



## ***Appendix E. Conducted RF Output Power Table***

The detailed power table are shown as follows.

| Full Power for UAT |  |                           |       |       |                     |                           |       |       |                     |
|--------------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| GSM850             |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
| TX Channel         |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz)    |  | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot      |  | 32.17                     | 32.20 | 32.18 | 32.80               | 23.17                     | 23.20 | 23.18 | 23.80               |
| GPRS 1 Tx slot     |  | 32.05                     | 32.17 | 32.15 | 32.80               | 23.05                     | 23.17 | 23.15 | 23.80               |
| GPRS 2 Tx slots    |  | 30.46                     | 30.65 | 30.59 | 31.30               | 24.46                     | 24.65 | 24.59 | 25.30               |
| GPRS 3 Tx slots    |  | 28.84                     | 29.01 | 29.00 | 29.80               | 24.59                     | 24.75 | 24.74 | 25.54               |
| GPRS 4 Tx slots    |  | 27.47                     | 27.74 | 27.55 | 28.50               | 24.47                     | 24.74 | 24.55 | 25.50               |
| EDGE 1 Tx slot     |  | 26.10                     | 26.17 | 26.15 | 26.80               | 17.10                     | 17.17 | 17.15 | 17.80               |
| EDGE 2 Tx slots    |  | 24.46                     | 24.57 | 24.53 | 24.80               | 18.46                     | 18.57 | 18.53 | 18.80               |
| EDGE 3 Tx slots    |  | 23.32                     | 23.55 | 23.43 | 23.80               | 19.06                     | 19.30 | 19.17 | 19.54               |
| EDGE 4 Tx slots    |  | 22.98                     | 22.82 | 22.89 | 23.20               | 19.58                     | 19.62 | 19.69 | 20.20               |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 27.67                     | 27.53 | 27.67  | 28.80               | 18.67                     | 18.53 | 18.67  | 19.80               |
| GPRS 1 Tx slot  |  | 27.47                     | 27.59 | 27.58  | 28.80               | 19.47                     | 19.56 | 19.55  | 19.80               |
| GPRS 2 Tx slots |  | 24.81                     | 25.12 | 24.92  | 26.30               | 18.81                     | 19.12 | 18.92  | 20.30               |
| GPRS 3 Tx slots |  | 23.71                     | 24.01 | 23.99  | 25.00               | 19.45                     | 19.75 | 19.33  | 20.74               |
| GPRS 4 Tx slots |  | 22.20                     | 22.51 | 22.34  | 23.50               | 19.20                     | 19.51 | 19.34  | 20.50               |
| EDGE 1 Tx slot  |  | 23.32                     | 23.60 | 23.35  | 24.30               | 14.32                     | 14.60 | 14.35  | 15.30               |
| EDGE 2 Tx slots |  | 21.51                     | 21.42 | 21.75  | 23.20               | 15.51                     | 15.42 | 15.75  | 17.20               |
| EDGE 3 Tx slots |  | 20.41                     | 20.81 | 20.68  | 22.10               | 16.15                     | 16.55 | 16.40  | 17.84               |
| EDGE 4 Tx slots |  | 19.22                     | 19.44 | 19.46  | 21.10               | 16.22                     | 16.44 | 16.46  | 18.10               |

| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                         | 9262     | 9800  | 9938   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4462  | 4233  |                           |
| RX Channel      |                         | 9962     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.17    | 22.28 | 22.26  | 23.30                     | 21.78    | 21.92  | 21.93  | 23.30                     | 24.25   | 24.24 | 24.19 | 24.80                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.18    | 22.30 | 22.28  | 23.30                     | 21.80    | 21.93  | 21.95  | 23.30                     | 24.27   | 24.25 | 24.21 | 24.80                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.23    | 21.31 | 21.30  | 22.30                     | 20.77    | 20.95  | 20.92  | 22.30                     | 23.28   | 23.26 | 23.23 | 23.80                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.26    | 21.33 | 21.29  | 22.30                     | 20.76    | 20.91  | 20.93  | 22.30                     | 23.27   | 23.27 | 23.17 | 23.80                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 20.71    | 20.82 | 20.82  | 21.80                     | 20.31    | 20.42  | 20.39  | 21.80                     | 22.79   | 22.77 | 22.72 | 23.30                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 20.70    | 20.80 | 20.80  | 21.80                     | 20.29    | 20.39  | 20.42  | 21.80                     | 22.77   | 22.73 | 22.72 | 23.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-1      | 21.22    | 21.25 | 21.23  | 22.30                     | 20.78    | 20.82  | 20.89  | 22.30                     | 23.26   | 23.24 | 23.21 | 23.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-2      | 21.18    | 21.23 | 21.20  | 22.30                     | 20.74    | 20.79  | 20.86  | 22.30                     | 23.22   | 23.19 | 23.17 | 23.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-3      | 20.66    | 20.71 | 20.65  | 21.80                     | 20.33    | 20.38  | 20.41  | 21.80                     | 22.76   | 22.78 | 22.72 | 23.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-4      | 20.65    | 20.70 | 20.66  | 21.80                     | 20.30    | 20.35  | 20.38  | 21.80                     | 22.74   | 22.75 | 22.70 | 23.30                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.20    | 21.32 | 21.33  | 22.30                     | 20.79    | 20.94  | 20.91  | 22.30                     | 23.12   | 23.08 | 23.04 | 23.80                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.24    | 19.32 | 19.33  | 20.30                     | 18.79    | 18.95  | 18.96  | 20.30                     | 21.09   | 21.10 | 21.00 | 21.80                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.22    | 20.33 | 20.35  | 21.30                     | 19.84    | 19.93  | 19.95  | 21.30                     | 22.20   | 22.13 | 22.11 | 22.80                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.24    | 19.33 | 19.31  | 20.30                     | 18.81    | 18.93  | 18.89  | 20.30                     | 21.17   | 21.05 | 21.09 | 21.80                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.20    | 21.30 | 21.40  | 22.30                     | 20.50    | 20.90  | 20.90  | 22.30                     | 22.70   | 22.75 | 22.69 | 23.80                     |
| 3GPP Rel 7      | HSPA+ (10QAM) Subtest-1 | 19.37    | 19.44 | 19.39  | 20.30                     | 18.95    | 19.12  | 19.01  | 20.30                     | 21.33   | 21.24 | 21.29 | 21.80                     |

| Band             |  | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel       |  | 1913     | 394    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 590   | 684   |                           |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1980  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 505S         |  | 24.01    | 24.02  | 23.98  | 24.80                     | 21.78    | 21.80 | 21.80   | 23.30                     | 24.16     | 24.18 | 24.14 | 24.80                     |
| RC3 505S         |  | 23.99    | 24.01  | 23.96  | 24.80                     | 21.77    | 21.79 | 21.88   | 23.30                     | 24.15     | 24.17 | 24.13 | 24.80                     |
| RC3 5032 (F+SCH) |  | 23.97    | 24.01  | 23.95  | 24.80                     | 21.77    | 21.79 | 21.87   | 23.30                     | 24.13     | 24.16 | 24.12 | 24.80                     |
| RC3 5035 (F+SCH) |  | 23.94    | 23.99  | 23.95  | 24.80                     | 21.69    | 21.78 | 21.82   | 23.30                     | 24.12     | 24.15 | 24.12 | 24.80                     |
| RTAP 15S 15Kbps  |  | 23.89    | 23.97  | 23.94  | 24.80                     | 21.68    | 21.77 | 21.85   | 23.30                     | 24.11     | 24.15 | 24.12 | 24.80                     |
| RETAP 40968ba    |  | 23.89    | 23.96  | 23.94  | 24.80                     | 21.67    | 21.76 | 21.80   | 23.30                     | 24.11     | 24.13 | 24.10 | 24.80                     |













| LTE Band 48     |            |         |           |                             |                                    |                                     |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|-------------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 55340                       | 55830                              | 56150                               | 56640                        |                        |             |
| Frequency (MHz) |            |         |           | 3560                        | 3609                               | 3641                                | 3690                         |                        |             |
| 20              | QPSK       | 1       | 0         | 23.05                       | 23.22                              | 23.08                               | 23.19                        | 23.8                   | 0           |
| 20              | QPSK       | 1       | 49        | 23.24                       | 23.46                              | 23.35                               | 23.42                        |                        |             |
| 20              | QPSK       | 1       | 99        | 23.08                       | 23.26                              | 23.12                               | 23.21                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.21                       | 22.45                              | 22.33                               | 22.38                        |                        |             |
| 20              | QPSK       | 50      | 24        | 22.34                       | 22.81                              | 22.50                               | 22.51                        | 22.8                   | 1           |
| 20              | QPSK       | 50      | 50        | 22.29                       | 22.53                              | 22.42                               | 22.44                        |                        |             |
| 20              | QPSK       | 100     | 0         | 22.26                       | 22.52                              | 22.41                               | 22.44                        |                        |             |
| 20              | 16QAM      | 1       | 0         | 22.30                       | 22.62                              | 22.46                               | 22.38                        |                        |             |
| 20              | 16QAM      | 1       | 49        | 22.88                       | 22.80                              | 22.75                               | 22.72                        | 22.8                   | 1           |
| 20              | 16QAM      | 1       | 99        | 22.46                       | 22.56                              | 22.81                               | 22.53                        |                        |             |
| 20              | 16QAM      | 50      | 0         | 21.33                       | 21.51                              | 21.38                               | 21.41                        |                        |             |
| 20              | 16QAM      | 50      | 24        | 21.42                       | 21.56                              | 21.52                               | 21.50                        |                        |             |
| 20              | 16QAM      | 50      | 50        | 21.34                       | 21.47                              | 21.50                               | 21.46                        | 21.8                   | 2           |
| 20              | 16QAM      | 100     | 0         | 21.32                       | 21.50                              | 21.49                               | 21.46                        |                        |             |
| 20              | 64QAM      | 1       | 0         | 21.13                       | 21.42                              | 21.16                               | 21.11                        |                        |             |
| 20              | 64QAM      | 1       | 49        | 21.53                       | 21.62                              | 21.55                               | 21.47                        |                        |             |
| 20              | 64QAM      | 1       | 99        | 21.27                       | 21.33                              | 21.42                               | 21.22                        | 20.8                   | 3           |
| 20              | 64QAM      | 50      | 0         | 20.45                       | 20.71                              | 20.59                               | 20.49                        |                        |             |
| 20              | 64QAM      | 50      | 24        | 20.59                       | 20.79                              | 20.69                               | 20.59                        |                        |             |
| 20              | 64QAM      | 50      | 50        | 20.50                       | 20.62                              | 20.65                               | 20.53                        |                        |             |
| 20              | 64QAM      | 100     | 0         | 20.52                       | 20.71                              | 20.66                               | 20.58                        | 19.3                   | 4.5         |
| 20              | 256QAM     | 1       | 0         | 17.34                       | 17.65                              | 17.39                               | 17.35                        |                        |             |
| 20              | 256QAM     | 1       | 49        | 17.74                       | 17.79                              | 17.72                               | 17.69                        |                        |             |
| 20              | 256QAM     | 1       | 99        | 17.55                       | 17.81                              | 17.70                               | 17.50                        |                        |             |
| 20              | 256QAM     | 50      | 0         | 17.68                       | 18.05                              | 17.63                               | 17.76                        | 19.3                   | 4.5         |
| 20              | 256QAM     | 50      | 24        | 17.88                       | 18.06                              | 18.06                               | 17.88                        |                        |             |
| 20              | 256QAM     | 50      | 50        | 17.76                       | 18.07                              | 18.00                               | 17.81                        |                        |             |
| 20              | 256QAM     | 100     | 0         | 17.66                       | 17.85                              | 17.80                               | 17.52                        |                        |             |
| Channel         |            |         |           | 55315                       | 55820                              | 56160                               | 56665                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.5                      | 3608                               | 3642                                | 3692.5                       |                        |             |
| 15              | QPSK       | 1       | 0         | 22.99                       | 22.91                              | 22.82                               | 23.21                        | 23.8                   | 0           |
| 15              | QPSK       | 1       | 37        | 23.27                       | 23.12                              | 23.04                               | 23.39                        |                        |             |
| 15              | QPSK       | 1       | 74        | 23.19                       | 23.08                              | 23.01                               | 23.26                        |                        |             |
| 15              | QPSK       | 36      | 0         | 22.32                       | 22.35                              | 22.08                               | 22.43                        |                        |             |
| 15              | QPSK       | 36      | 20        | 22.39                       | 22.41                              | 22.16                               | 22.50                        | 22.8                   | 1           |
| 15              | QPSK       | 36      | 39        | 22.34                       | 22.29                              | 22.17                               | 22.49                        |                        |             |
| 15              | QPSK       | 75      | 0         | 22.32                       | 22.32                              | 22.13                               | 22.45                        |                        |             |
| 15              | 16QAM      | 1       | 0         | 22.14                       | 22.48                              | 22.19                               | 22.61                        |                        |             |
| 15              | 16QAM      | 1       | 37        | 22.37                       | 22.51                              | 22.41                               | 22.73                        | 22.8                   | 1           |
| 15              | 16QAM      | 1       | 74        | 22.22                       | 22.32                              | 22.42                               | 22.66                        |                        |             |
| 15              | 16QAM      | 36      | 0         | 21.02                       | 21.25                              | 21.15                               | 21.46                        |                        |             |
| 15              | 16QAM      | 36      | 20        | 21.07                       | 21.33                              | 21.20                               | 21.51                        |                        |             |
| 15              | 16QAM      | 36      | 39        | 21.06                       | 21.24                              | 21.19                               | 21.47                        | 21.8                   | 2           |
| 15              | 16QAM      | 75      | 0         | 21.03                       | 21.18                              | 21.15                               | 21.45                        |                        |             |
| 15              | 64QAM      | 1       | 0         | 21.03                       | 21.29                              | 21.14                               | 21.28                        |                        |             |
| 15              | 64QAM      | 1       | 37        | 21.25                       | 21.32                              | 21.29                               | 21.47                        |                        |             |
| 15              | 64QAM      | 1       | 74        | 21.19                       | 21.22                              | 21.24                               | 21.38                        | 20.8                   | 3           |
| 15              | 64QAM      | 36      | 0         | 20.02                       | 20.14                              | 20.13                               | 20.54                        |                        |             |
| 15              | 64QAM      | 36      | 20        | 20.09                       | 20.24                              | 20.21                               | 20.61                        |                        |             |
| 15              | 64QAM      | 36      | 39        | 20.07                       | 20.15                              | 20.16                               | 20.56                        |                        |             |
| 15              | 64QAM      | 75      | 0         | 20.04                       | 20.20                              | 20.15                               | 20.59                        | 19.3                   | 4.5         |
| 15              | 256QAM     | 1       | 0         | 17.34                       | 17.52                              | 17.37                               | 17.52                        |                        |             |
| 15              | 256QAM     | 1       | 37        | 17.46                       | 17.49                              | 17.46                               | 17.68                        |                        |             |
| 15              | 256QAM     | 1       | 74        | 17.47                       | 17.50                              | 17.52                               | 17.66                        |                        |             |
| 15              | 256QAM     | 36      | 0         | 17.39                       | 17.32                              | 17.31                               | 17.51                        | 19.3                   | 4.5         |
| 15              | 256QAM     | 36      | 20        | 17.36                       | 17.39                              | 17.56                               | 17.63                        |                        |             |
| 15              | 256QAM     | 36      | 39        | 17.37                       | 17.64                              | 17.65                               | 17.57                        |                        |             |
| 15              | 256QAM     | 75      | 0         | 17.32                       | 17.38                              | 17.33                               | 17.76                        |                        |             |
| Channel         |            |         |           | 55290                       | 55815                              | 56165                               | 56690                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3607.5                             | 3642.5                              | 3695                         |                        |             |
| 10              | QPSK       | 1       | 0         | 22.75                       | 22.81                              | 22.88                               | 22.90                        | 23.8                   | 0           |
| 10              | QPSK       | 1       | 25        | 23.17                       | 23.25                              | 23.16                               | 23.24                        |                        |             |
| 10              | QPSK       | 1       | 49        | 23.14                       | 23.13                              | 23.12                               | 23.11                        |                        |             |
| 10              | QPSK       | 25      | 0         | 22.03                       | 22.24                              | 22.17                               | 22.18                        |                        |             |
| 10              | QPSK       | 25      | 12        | 22.19                       | 22.33                              | 22.22                               | 22.34                        | 22.8                   | 1           |
| 10              | QPSK       | 25      | 25        | 22.22                       | 22.13                              | 22.16                               | 22.32                        |                        |             |
| 10              | QPSK       | 50      | 0         | 22.24                       | 22.09                              | 22.13                               | 22.27                        |                        |             |
| 10              | 16QAM      | 1       | 0         | 22.33                       | 22.26                              | 22.21                               | 22.22                        |                        |             |
| 10              | 16QAM      | 1       | 25        | 22.28                       | 22.17                              | 22.46                               | 22.60                        | 22.8                   | 1           |
| 10              | 16QAM      | 1       | 49        | 22.19                       | 22.22                              | 22.33                               | 22.42                        |                        |             |
| 10              | 16QAM      | 25      | 0         | 21.28                       | 21.32                              | 21.28                               | 21.19                        |                        |             |
| 10              | 16QAM      | 25      | 12        | 21.32                       | 21.29                              | 21.23                               | 21.39                        |                        |             |
| 10              | 16QAM      | 25      | 25        | 21.17                       | 21.18                              | 21.19                               | 21.33                        | 21.8                   | 2           |
| 10              | 16QAM      | 50      | 0         | 21.25                       | 21.21                              | 21.17                               | 21.23                        |                        |             |
| 10              | 64QAM      | 1       | 0         | 21.08                       | 21.12                              | 21.26                               | 20.98                        |                        |             |
| 10              | 64QAM      | 1       | 25        | 21.32                       | 21.23                              | 21.17                               | 21.38                        |                        |             |
| 10              | 64QAM      | 1       | 49        | 21.14                       | 21.21                              | 21.09                               | 21.25                        | 20.8                   | 3           |
| 10              | 64QAM      | 25      | 0         | 20.26                       | 20.36                              | 20.32                               | 20.30                        |                        |             |
| 10              | 64QAM      | 25      | 12        | 20.18                       | 20.22                              | 20.23                               | 20.43                        |                        |             |
| 10              | 64QAM      | 25      | 25        | 20.09                       | 20.18                              | 20.17                               | 20.42                        |                        |             |
| 10              | 64QAM      | 50      | 0         | 20.12                       | 20.20                              | 20.06                               | 20.33                        | 19.3                   | 4.5         |
| 10              | 256QAM     | 1       | 0         | 17.39                       | 17.35                              | 17.49                               | 17.32                        |                        |             |
| 10              | 256QAM     | 1       | 25        | 17.35                       | 17.40                              | 17.34                               | 17.60                        |                        |             |
| 10              | 256QAM     | 1       | 49        | 17.42                       | 17.49                              | 17.37                               | 17.53                        |                        |             |
| 10              | 256QAM     | 25      | 0         | 17.33                       | 17.54                              | 17.50                               | 17.57                        | 19.3                   | 4.5         |
| 10              | 256QAM     | 25      | 12        | 17.35                       | 17.67                              | 17.58                               | 17.55                        |                        |             |
| 10              | 256QAM     | 25      | 25        | 17.39                       | 17.67                              | 17.66                               | 17.73                        |                        |             |
| 10              | 256QAM     | 50      | 0         | 17.40                       | 17.18                              | 17.34                               | 17.50                        |                        |             |
| Channel         |            |         |           | 55265                       | 55810                              | 56170                               | 56715                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3562.5                      | 3607                               | 3643                                | 3697.5                       |                        |             |
| 5               | QPSK       | 1       | 0         | 22.91                       | 22.88                              | 23.01                               | 23.09                        | 23.8                   | 0           |
| 5               | QPSK       | 1       | 12        | 23.13                       | 23.00                              | 23.19                               | 23.21                        |                        |             |
| 5               | QPSK       | 1       | 24        | 23.09                       | 22.95                              | 23.05                               | 23.21                        |                        |             |
| 5               | QPSK       | 12      | 0         | 22.23                       | 22.28                              | 22.19                               | 22.26                        |                        |             |
| 5               | QPSK       | 12      | 7         | 22.31                       | 22.19                              | 22.07                               | 22.36                        | 22.8                   | 1           |
| 5               | QPSK       | 12      | 13        | 22.21                       | 22.15                              | 22.12                               | 22.34                        |                        |             |
| 5               | QPSK       | 25      | 0         | 22.15                       | 22.07                              | 22.21                               | 22.28                        |                        |             |
| 5               | 16QAM      | 1       | 0         | 22.13                       | 22.09                              | 22.15                               | 22.35                        |                        |             |
| 5               | 16QAM      | 1       | 12        | 22.32                       | 22.23                              | 22.26                               | 22.45                        | 22.8                   | 1           |
| 5               | 16QAM      | 1       | 24        | 22.28                       | 22.16                              | 22.29                               | 22.49                        |                        |             |
| 5               | 16QAM      | 12      | 0         | 21.34                       | 21.24                              | 21.27                               | 21.25                        |                        |             |
| 5               | 16QAM      | 12      | 7         | 21.32                       | 21.21                              | 21.18                               | 21.36                        |                        |             |
| 5               | 16QAM      | 12      | 13        | 21.29                       | 21.25                              | 21.13                               | 21.32                        | 21.8                   | 2           |
| 5               | 16QAM      | 25      | 0         | 21.30                       | 21.13                              | 21.10                               | 21.25                        |                        |             |
| 5               | 64QAM      | 1       | 0         | 21.08                       | 21.17                              | 21.16                               | 21.12                        |                        |             |
| 5               | 64QAM      | 1       | 12        | 21.14                       | 21.18                              | 21.12                               | 21.27                        |                        |             |
| 5               | 64QAM      | 1       | 24        | 21.17                       | 21.20                              | 21.15                               | 21.30                        | 20.8                   | 3           |
| 5               | 64QAM      | 12      | 0         | 20.25                       | 20.09                              | 20.18                               | 20.22                        |                        |             |
| 5               | 64QAM      | 12      | 7         | 20.21                       | 20.11                              | 20.21                               | 20.32                        |                        |             |
| 5               | 64QAM      | 12      | 13        | 20.12                       | 20.14                              | 20.14                               | 20.33                        |                        |             |
| 5               | 64QAM      | 25      | 0         | 20.10                       | 20.20                              | 20.09                               | 20.38                        | 19.3                   | 4.5         |
| 5               | 256QAM     | 1       | 0         | 17.32                       | 17.40                              | 17.39                               | 17.36                        |                        |             |
| 5               | 256QAM     | 1       | 12        | 17.35                       | 17.35                              | 17.38                               | 17.49                        |                        |             |
| 5               | 256QAM     | 1       | 24        | 17.45                       | 17.48                              | 17.43                               | 17.58                        |                        |             |
| 5               | 256QAM     | 12      | 0         | 17.32                       | 17.35                              | 17.36                               | 17.49                        | 19.3                   | 4.5         |
| 5               | 256QAM     | 12      | 7         | 17.38                       | 17.46                              | 17.56                               | 17.64                        |                        |             |
| 5               | 256QAM     | 12      | 13        | 17.32                       | 17.63                              | 17.63                               | 17.64                        |                        |             |
| 5               | 256QAM     | 25      | 0         | 17.38                       | 17.38                              | 17.37                               | 17.55                        |                        |             |

| Reduced power level 1 for Head-UAT |  |                           |       |       |                           |                           |       |       |                           |
|------------------------------------|--|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| GSM850                             |  | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) |
| Tx Channel                         |  | 128                       | 189   | 251   |                           | 128                       | 189   | 251   |                           |
| Frequency (MHz)                    |  | 534.2                     | 535.2 | 536.2 |                           | 534.2                     | 535.2 | 536.2 |                           |
| GSM 1 Tx slot                      |  | 30.62                     | 30.83 | 30.63 | 31.30                     | 21.62                     | 21.63 | 21.63 | 22.30                     |
| GPRS 1 Tx slot                     |  | 30.58                     | 30.81 | 30.59 | 31.30                     | 21.58                     | 21.81 | 21.59 | 22.30                     |
| GPRS 2 Tx slots                    |  | 29.03                     | 29.20 | 28.92 | 29.80                     | 23.03                     | 23.20 | 22.92 | 23.80                     |
| GPRS 3 Tx slots                    |  | 27.33                     | 27.53 | 27.32 | 28.30                     | 23.07                     | 23.27 | 23.06 | 24.04                     |
| GPRS 4 Tx slots                    |  | 26.12                     | 26.37 | 26.05 | 27.00                     | 23.12                     | 23.37 | 23.05 | 24.00                     |
| EDGE 1 Tx slot                     |  | 24.63                     | 24.52 | 24.81 | 25.30                     | 15.63                     | 15.52 | 15.91 | 16.30                     |
| EDGE 2 Tx slots                    |  | 23.03                     | 23.02 | 23.10 | 23.30                     | 17.03                     | 17.02 | 17.10 | 17.30                     |
| EDGE 3 Tx slots                    |  | 21.80                     | 21.98 | 21.73 | 22.30                     | 17.54                     | 17.70 | 17.47 | 18.04                     |
| EDGE 4 Tx slots                    |  | 21.03                     | 21.19 | 21.27 | 21.70                     | 16.03                     | 16.19 | 16.27 | 16.70                     |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| Tx Channel      |  | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) |  | 1950.2                    | 1880  | 1909.8 |                           | 1950.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   |  | 22.10                     | 22.32 | 22.26  | 23.30                     | 13.10                     | 13.32 | 13.26  | 14.30                     |
| GPRS 1 Tx slot  |  | 22.09                     | 22.29 | 22.24  | 23.30                     | 13.09                     | 13.29 | 13.24  | 14.30                     |
| GPRS 2 Tx slots |  | 19.56                     | 19.84 | 19.66  | 20.80                     | 13.56                     | 13.84 | 13.66  | 14.80                     |
| GPRS 3 Tx slots |  | 18.64                     | 18.90 | 18.75  | 19.50                     | 14.38                     | 14.64 | 14.49  | 15.24                     |
| GPRS 4 Tx slots |  | 17.08                     | 17.30 | 17.27  | 18.00                     | 14.08                     | 14.30 | 14.27  | 15.00                     |
| EDGE 1 Tx slot  |  | 18.08                     | 17.88 | 17.89  | 18.80                     | 9.08                      | 8.88  | 8.89   | 9.80                      |
| EDGE 2 Tx slots |  | 16.62                     | 17.00 | 16.99  | 17.70                     | 10.62                     | 11.00 | 10.99  | 11.70                     |
| EDGE 3 Tx slots |  | 15.59                     | 15.61 | 15.36  | 16.60                     | 11.33                     | 11.35 | 11.10  | 12.34                     |
| EDGE 4 Tx slots |  | 14.45                     | 14.53 | 14.56  | 15.60                     | 11.45                     | 11.53 | 11.56  | 12.60                     |

| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                         | 5262     | 5400  | 5538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 13.04    | 12.84 | 12.89  | 14.30                     | 13.44    | 13.50  | 13.58  | 14.80                     | 20.56   | 20.55 | 20.52 | 21.30                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 13.05    | 12.86 | 12.94  | 14.30                     | 13.46    | 13.53  | 13.61  | 14.80                     | 20.61   | 20.57 | 20.55 | 21.30                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 12.28    | 12.35 | 12.35  | 13.30                     | 12.29    | 12.47  | 12.44  | 13.80                     | 19.53   | 19.63 | 19.64 | 20.30                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 12.31    | 12.38 | 12.34  | 13.30                     | 12.28    | 12.43  | 12.45  | 13.80                     | 19.28   | 19.62 | 19.63 | 20.30                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 11.76    | 11.87 | 11.87  | 12.80                     | 11.83    | 11.94  | 11.91  | 13.30                     | 19.03   | 18.76 | 19.11 | 19.80                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 11.75    | 11.85 | 11.85  | 12.80                     | 11.81    | 11.91  | 11.94  | 13.30                     | 19.05   | 19.12 | 19.12 | 19.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-1      | 12.27    | 12.30 | 12.28  | 13.30                     | 12.30    | 12.34  | 12.41  | 13.80                     | 19.51   | 19.61 | 19.63 | 20.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-2      | 12.23    | 12.29 | 12.25  | 13.30                     | 12.26    | 12.31  | 12.38  | 13.80                     | 19.23   | 19.54 | 19.60 | 20.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-3      | 11.72    | 11.75 | 11.69  | 12.80                     | 11.85    | 11.90  | 11.93  | 13.30                     | 19.00   | 19.77 | 19.11 | 19.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-4      | 11.65    | 11.74 | 11.70  | 12.80                     | 11.82    | 11.87  | 11.90  | 13.30                     | 19.02   | 19.14 | 19.10 | 19.80                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 12.24    | 12.36 | 12.37  | 13.30                     | 12.31    | 12.46  | 12.43  | 13.80                     | 19.37   | 19.45 | 19.46 | 20.30                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 10.28    | 10.36 | 10.37  | 11.30                     | 10.31    | 10.47  | 10.48  | 11.80                     | 17.10   | 17.45 | 17.48 | 18.30                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 11.26    | 11.37 | 11.39  | 12.30                     | 11.36    | 11.45  | 11.47  | 12.80                     | 18.44   | 18.12 | 18.50 | 19.30                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 10.28    | 10.37 | 10.35  | 11.30                     | 10.33    | 10.45  | 10.41  | 11.80                     | 17.45   | 17.44 | 17.49 | 18.30                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 12.24    | 12.34 | 12.44  | 13.30                     | 12.02    | 12.42  | 12.42  | 13.80                     | 18.94   | 18.99 | 19.13 | 20.30                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 10.41    | 10.44 | 10.39  | 11.30                     | 10.47    | 10.64  | 10.53  | 11.80                     | 17.57   | 17.48 | 17.53 | 18.30                     |

| Band             |  | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel       |  | 1913     | 394    | 777    |                           | 25       | 609   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                           | 1951.25  | 1980  | 1968.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 505S         |  | 22.03    | 22.05  | 22.00  | 22.80                     | 13.62    | 13.65 | 13.72   | 14.80                     | 21.24     | 21.26 | 21.13 | 21.80                     |
| RC3 505S         |  | 22.02    | 22.04  | 21.99  | 22.80                     | 13.59    | 13.61 | 13.71   | 14.80                     | 21.23     | 21.25 | 21.12 | 21.80                     |
| RC3 5032 (F+SCH) |  | 21.99    | 22.02  | 21.98  | 22.80                     | 13.58    | 13.60 | 13.70   | 14.80                     | 21.22     | 21.24 | 21.11 | 21.80                     |
| RC3 5035 (F+SCH) |  | 21.98    | 21.99  | 21.96  | 22.80                     | 13.53    | 13.59 | 13.68   | 14.80                     | 21.21     | 21.24 | 21.10 | 21.80                     |
| RTAP 151 160bps  |  | 21.93    | 21.97  | 21.95  | 22.80                     | 13.51    | 13.59 | 13.67   | 14.80                     | 21.21     | 21.23 | 21.09 | 21.80                     |
| RETAP 4096bps    |  | 21.91    | 21.96  | 21.93  | 22.80                     | 13.50    | 13.57 | 13.65   | 14.80                     | 21.20     | 21.23 | 21.09 | 21.80                     |







Table 1

| Ref. ID         | Modulation | RF Size | RF Offset | Power<br>Level<br>dBm | Power<br>Margin<br>dB | Power<br>High<br>dBm | Turn-on<br>Time<br>(sec) | APN<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------|-----------------------|----------------------|--------------------------|-------------|
| Channel         |            |         |           |                       |                       |                      |                          |             |
| Frequency (MHz) |            |         |           |                       |                       |                      |                          |             |
| 20              | QPSK       | 1       | 0         | 18.24                 | 18.22                 | 18.26                |                          |             |
| 20              | QPSK       | 1       | 48        | 18.26                 | 18.22                 | 18.22                |                          | 18.8        |
| 20              | QPSK       | 1       | 96        | 18.23                 | 18.41                 | 18.18                |                          |             |
| 20              | QPSK       | 50      | 0         | 18.31                 | 18.32                 | 18.32                |                          |             |
| 20              | QPSK       | 50      | 24        | 18.30                 | 18.27                 | 18.30                |                          | 18.8        |
| 20              | QPSK       | 50      | 50        | 18.32                 | 18.30                 | 18.27                |                          |             |
| 20              | QPSK       | 100     | 0         | 18.30                 | 18.30                 | 18.30                |                          |             |
| 20              | 16QAM      | 1       | 0         | 18.26                 | 18.22                 | 18.30                |                          |             |
| 20              | 16QAM      | 1       | 48        | 18.28                 | 18.14                 | 18.17                |                          | 18.8        |
| 20              | 16QAM      | 1       | 96        | 18.01                 | 18.22                 | 18.1                 |                          |             |
| 20              | 16QAM      | 50      | 0         | 18.04                 | 18.05                 | 17.99                |                          |             |
| 20              | 16QAM      | 50      | 24        | 18.08                 | 17.89                 | 17.82                |                          | 18.8        |
| 20              | 16QAM      | 50      | 50        | 17.93                 | 17.82                 | 17.82                |                          |             |
| 20              | 16QAM      | 100     | 0         | 17.91                 | 17.81                 | 17.80                |                          |             |
| 20              | 16QAM      | 1       | 0         | 18.12                 | 17.88                 | 18.17                |                          |             |
| 20              | 16QAM      | 1       | 48        | 18.01                 | 18.32                 | 17.89                |                          | 18.8        |
| 20              | 16QAM      | 1       | 96        | 18.34                 | 18.20                 | 18.11                |                          |             |
| 20              | 16QAM      | 50      | 0         | 18.08                 | 18.05                 | 18.05                |                          |             |
| 20              | 16QAM      | 50      | 24        | 18.10                 | 18.03                 | 17.88                |                          | 18.8        |
| 20              | 16QAM      | 50      | 50        | 18.07                 | 17.85                 | 17.88                |                          |             |
| 20              | 16QAM      | 100     | 0         | 17.95                 | 17.77                 | 17.89                |                          |             |
| 20              | 16QAM      | 1       | 0         | 17.85                 | 17.80                 | 17.79                |                          |             |
| 20              | 16QAM      | 1       | 48        | 17.85                 | 18.10                 | 17.88                |                          | 18.8        |
| 20              | 16QAM      | 1       | 96        | 17.77                 | 17.80                 | 17.82                |                          |             |
| 20              | 16QAM      | 50      | 0         | 17.89                 | 17.83                 | 17.81                |                          |             |
| 20              | 16QAM      | 50      | 24        | 17.79                 | 17.80                 | 17.75                |                          | 18.8        |
| 20              | 16QAM      | 50      | 50        | 17.81                 | 17.84                 | 17.80                |                          |             |
| 20              | 16QAM      | 100     | 0         | 17.88                 | 17.72                 | 17.77                |                          |             |
| Channel         |            |         |           |                       |                       |                      |                          |             |
| Frequency (MHz) |            |         |           |                       |                       |                      |                          |             |
| 15              | QPSK       | 1       | 0         | 18.30                 | 18.27                 | 18.28                |                          |             |
| 15              | QPSK       | 1       | 37        | 18.23                 | 18.17                 | 18.10                |                          | 18.8        |
| 15              | QPSK       | 1       | 74        | 18.22                 | 18.14                 | 18.13                |                          |             |
| 15              | QPSK       | 36      | 0         | 18.34                 | 18.34                 | 18.29                |                          |             |
| 15              | QPSK       | 36      | 20        | 18.39                 | 18.30                 | 18.20                |                          | 18.8        |
| 15              | QPSK       | 36      | 36        | 18.38                 | 18.32                 | 18.30                |                          |             |
| 15              | QPSK       | 72      | 0         | 18.37                 | 18.24                 | 18.27                |                          |             |
| 15              | 16QAM      | 1       | 0         | 18.28                 | 18.27                 | 18.28                |                          |             |
| 15              | 16QAM      | 1       | 37        | 18.24                 | 18.27                 | 18.30                |                          | 18.8        |
| 15              | 16QAM      | 1       | 74        | 18.22                 | 18.30                 | 18.28                |                          |             |
| 15              | 16QAM      | 36      | 0         | 18.28                 | 18.07                 | 18.01                |                          |             |
| 15              | 16QAM      | 36      | 20        | 18.38                 | 18.05                 | 18.04                |                          | 18.8        |
| 15              | 16QAM      | 36      | 36        | 18.32                 | 18.03                 | 17.87                |                          |             |
| 15              | 16QAM      | 72      | 0         | 18.20                 | 17.86                 | 17.88                |                          |             |
| 15              | 16QAM      | 1       | 0         | 18.15                 | 18.17                 | 18.14                |                          |             |
| 15              | 16QAM      | 1       | 37        | 18.14                 | 18.24                 | 18.05                |                          | 18.8        |
| 15              | 16QAM      | 1       | 74        | 18.21                 | 18.07                 | 18.05                |                          |             |
| 15              | 16QAM      | 36      | 0         | 17.97                 | 18.04                 | 18.05                |                          |             |
| 15              | 16QAM      | 36      | 20        | 18.00                 | 18.01                 | 17.88                |                          | 18.8        |
| 15              | 16QAM      | 36      | 36        | 18.10                 | 18.04                 | 17.89                |                          |             |
| 15              | 16QAM      | 72      | 0         | 18.01                 | 17.82                 | 17.80                |                          |             |
| 15              | 16QAM      | 1       | 0         | 17.88                 | 18.07                 | 17.75                |                          |             |
| 15              | 16QAM      | 1       | 37        | 18.05                 | 17.95                 | 17.89                |                          | 18.8        |
| 15              | 16QAM      | 1       | 74        | 17.84                 | 17.78                 | 17.74                |                          |             |
| 15              | 16QAM      | 36      | 0         | 17.77                 | 17.82                 | 17.81                |                          |             |
| 15              | 16QAM      | 36      | 20        | 17.78                 | 17.88                 | 17.78                |                          | 18.8        |
| 15              | 16QAM      | 36      | 36        | 17.84                 | 18.03                 | 17.87                |                          |             |
| 15              | 16QAM      | 72      | 0         | 17.75                 | 17.87                 | 17.88                |                          |             |
| Channel         |            |         |           |                       |                       |                      |                          |             |
| Frequency (MHz) |            |         |           |                       |                       |                      |                          |             |
| 10              | QPSK       | 1       | 0         | 18.20                 | 18.12                 | 18.10                |                          |             |
| 10              | QPSK       | 1       | 25        | 18.04                 | 18.01                 | 18.00                |                          | 18.8        |
| 10              | QPSK       | 1       | 49        | 18.15                 | 18.18                 | 18.07                |                          |             |
| 10              | QPSK       | 25      | 0         | 18.14                 | 18.13                 | 18.08                |                          |             |
| 10              | QPSK       | 25      | 12        | 18.22                 | 18.14                 | 18.11                |                          | 18.8        |
| 10              | QPSK       | 25      | 25        | 18.12                 | 18.10                 | 18.18                |                          |             |
| 10              | QPSK       | 50      | 0         | 18.08                 | 17.89                 | 17.88                |                          |             |
| 10              | 16QAM      | 1       | 0         | 18.22                 | 18.37                 | 18.21                |                          |             |
| 10              | 16QAM      | 1       | 25        | 18.28                 | 18.26                 | 18.20                |                          | 18.8        |
| 10              | 16QAM      | 1       | 49        | 18.20                 | 18.30                 | 18.32                |                          |             |
| 10              | 16QAM      | 25      | 0         | 18.15                 | 18.14                 | 18.01                |                          |             |
| 10              | 16QAM      | 25      | 12        | 18.18                 | 18.17                 | 18.03                |                          | 18.8        |
| 10              | 16QAM      | 25      | 25        | 18.04                 | 18.08                 | 18.10                |                          |             |
| 10              | 16QAM      | 50      | 0         | 18.07                 | 18.02                 | 17.84                |                          |             |
| 10              | 16QAM      | 1       | 0         | 18.01                 | 18.10                 | 18.11                |                          |             |
| 10              | 16QAM      | 1       | 25        | 18.11                 | 18.00                 | 18.01                |                          | 18.8        |
| 10              | 16QAM      | 1       | 49        | 17.98                 | 18.08                 | 17.88                |                          |             |
| 10              | 16QAM      | 25      | 0         | 17.83                 | 17.87                 | 17.79                |                          |             |
| 10              | 16QAM      | 25      | 12        | 17.89                 | 17.84                 | 17.81                |                          | 18.8        |
| 10              | 16QAM      | 25      | 25        | 17.95                 | 17.87                 | 17.80                |                          |             |
| 10              | 16QAM      | 50      | 0         | 17.82                 | 17.80                 | 17.69                |                          |             |
| 10              | 16QAM      | 1       | 0         | 17.74                 | 18.09                 | 17.75                |                          | 18.8        |
| 10              | 16QAM      | 1       | 25        | 18.08                 | 18.04                 | 17.80                |                          |             |
| 10              | 16QAM      | 1       | 49        | 17.71                 | 18.08                 | 17.89                |                          |             |
| 10              | 16QAM      | 25      | 0         | 17.83                 | 17.73                 | 17.65                |                          | 18.8        |
| 10              | 16QAM      | 25      | 12        | 17.88                 | 17.71                 | 17.68                |                          |             |
| 10              | 16QAM      | 25      | 25        | 17.86                 | 17.86                 | 17.68                |                          |             |
| 10              | 16QAM      | 50      | 0         | 17.88                 | 17.76                 | 17.65                |                          |             |
| Channel         |            |         |           |                       |                       |                      |                          |             |
| Frequency (MHz) |            |         |           |                       |                       |                      |                          |             |
| 5               | QPSK       | 1       | 0         | 18.08                 | 17.90                 | 17.85                |                          |             |
| 5               | QPSK       | 1       | 12        | 18.05                 | 17.80                 | 17.81                |                          | 18.8        |
| 5               | QPSK       | 1       | 24        | 18.03                 | 18.05                 | 17.88                |                          |             |
| 5               | QPSK       | 12      | 0         | 18.11                 | 18.03                 | 17.89                |                          |             |
| 5               | QPSK       | 12      | 7         | 18.16                 | 18.14                 | 18.04                |                          | 18.8        |
| 5               | QPSK       | 12      | 13        | 18.13                 | 18.20                 | 18.00                |                          |             |
| 5               | QPSK       | 25      | 0         | 18.15                 | 18.17                 | 18.01                |                          |             |
| 5               | 16QAM      | 1       | 0         | 18.25                 | 18.27                 | 18.22                |                          |             |
| 5               | 16QAM      | 1       | 12        | 18.21                 | 18.35                 | 18.20                |                          | 18.8        |
| 5               | 16QAM      | 1       | 24        | 18.18                 | 18.20                 | 18.20                |                          |             |
| 5               | 16QAM      | 12      | 0         | 18.18                 | 18.12                 | 18.02                |                          |             |
| 5               | 16QAM      | 12      | 7         | 18.28                 | 18.23                 | 18.11                |                          | 18.8        |
| 5               | 16QAM      | 12      | 13        | 18.22                 | 18.18                 | 18.12                |                          |             |
| 5               | 16QAM      | 25      | 0         | 18.14                 | 18.11                 | 17.88                |                          |             |
| 5               | 16QAM      | 1       | 0         | 17.98                 | 17.89                 | 17.81                |                          | 18.8        |
| 5               | 16QAM      | 1       | 12        | 18.00                 | 17.84                 | 18.08                |                          |             |
| 5               | 16QAM      | 1       | 24        | 18.20                 | 17.85                 | 17.82                |                          |             |
| 5               | 16QAM      | 12      | 0         | 17.84                 | 17.88                 | 17.88                |                          |             |
| 5               | 16QAM      | 12      | 7         | 17.85                 | 17.84                 | 17.78                |                          | 18.8        |
| 5               | 16QAM      | 12      | 13        | 17.81                 | 17.88                 | 17.79                |                          |             |
| 5               | 16QAM      | 25      | 0         | 17.83                 | 17.86                 | 17.78                |                          |             |
| 5               | 16QAM      | 1       | 0         | 17.89                 | 17.87                 | 17.53                |                          |             |
| 5               | 16QAM      | 1       | 12        | 17.84                 | 17.59                 | 17.89                |                          | 18.8        |
| 5               | 16QAM      | 1       | 24        | 17.83                 | 17.84                 | 17.85                |                          |             |
| 5               | 16QAM      | 12      | 0         | 17.84                 | 17.88                 | 17.46                |                          |             |
| 5               | 16QAM      | 12      | 7         | 17.84                 | 17.81                 | 17.85                |                          | 18.8        |
| 5               | 16QAM      | 12      | 13        | 17.85                 | 17.85                 | 17.68                |                          |             |
| 5               | 16QAM      | 25      | 0         | 17.87                 | 17.85                 | 17.85                |                          |             |



LTE Band 41HPU

| Band            | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           |                     |                            |                        |                             |                      |                     |          |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 | 18.6                | 0        |
| 20              | QPSK       | 1       | 0         | 17.95               | 17.84                      | 17.89                  | 17.74                       | 17.73                |                     |          |
| 20              | QPSK       | 1       | 49        | 17.91               | 17.96                      | 18.01                  | 18.04                       | 18.03                | 18.6                | 0        |
| 20              | QPSK       | 1       | 99        | 17.92               | 17.87                      | 18.07                  | 17.83                       | 18.06                |                     |          |
| 20              | QPSK       | 50      | 0         | 17.61               | 17.64                      | 17.90                  | 17.73                       | 17.73                | 18.6                | 0        |
| 20              | QPSK       | 50      | 24        | 17.86               | 17.71                      | 18.00                  | 17.91                       | 17.78                |                     |          |
| 20              | QPSK       | 50      | 50        | 17.65               | 17.69                      | 17.91                  | 17.78                       | 17.76                | 18.6                | 0        |
| 20              | QPSK       | 100     | 0         | 17.61               | 17.66                      | 17.90                  | 17.78                       | 17.74                |                     |          |
| 20              | 16QAM      | 1       | 0         | 17.94               | 17.83                      | 17.85                  | 17.55                       | 17.57                | 18.6                | 0        |
| 20              | 16QAM      | 1       | 49        | 17.85               | 17.80                      | 17.93                  | 17.93                       | 17.94                |                     |          |
| 20              | 16QAM      | 1       | 99        | 17.88               | 17.91                      | 17.74                  | 17.80                       | 17.94                | 18.6                | 0        |
| 20              | 16QAM      | 50      | 0         | 17.72               | 17.58                      | 17.95                  | 17.75                       | 17.85                |                     |          |
| 20              | 16QAM      | 50      | 24        | 17.74               | 17.85                      | 17.94                  | 17.92                       | 17.95                | 18.6                | 0        |
| 20              | 16QAM      | 50      | 50        | 17.75               | 17.82                      | 17.92                  | 17.88                       | 17.92                |                     |          |
| 20              | 16QAM      | 100     | 0         | 17.67               | 17.69                      | 17.94                  | 17.69                       | 17.97                | 18.6                | 0        |
| 20              | 64QAM      | 1       | 0         | 17.39               | 17.54                      | 17.42                  | 17.44                       | 17.33                |                     |          |
| 20              | 64QAM      | 1       | 49        | 17.35               | 17.51                      | 17.68                  | 17.67                       | 17.74                | 18.6                | 0        |
| 20              | 64QAM      | 1       | 99        | 17.49               | 17.55                      | 17.28                  | 17.35                       | 17.50                |                     |          |
| 20              | 64QAM      | 50      | 0         | 17.40               | 17.48                      | 17.61                  | 17.40                       | 17.58                | 18.6                | 0        |
| 20              | 64QAM      | 50      | 24        | 17.41               | 17.58                      | 17.70                  | 17.54                       | 17.81                |                     |          |
| 20              | 64QAM      | 50      | 50        | 17.38               | 17.60                      | 17.61                  | 17.57                       | 17.80                | 18.6                | 0        |
| 20              | 64QAM      | 100     | 0         | 17.32               | 17.50                      | 17.60                  | 17.45                       | 17.72                |                     |          |
| 20              | 256QAM     | 1       | 0         | 16.93               | 16.96                      | 17.05                  | 16.98                       | 16.75                | 18.6                | 0        |
| 20              | 256QAM     | 1       | 49        | 17.07               | 17.20                      | 17.16                  | 17.09                       | 17.03                |                     |          |
| 20              | 256QAM     | 1       | 99        | 16.97               | 16.76                      | 16.75                  | 16.83                       | 16.91                | 18.6                | 0        |
| 20              | 256QAM     | 50      | 0         | 17.11               | 17.32                      | 17.35                  | 17.11                       | 17.12                |                     |          |
| 20              | 256QAM     | 50      | 24        | 17.22               | 17.01                      | 17.04                  | 17.05                       | 17.20                | 18.6                | 0        |
| 20              | 256QAM     | 50      | 50        | 17.28               | 17.51                      | 17.03                  | 17.47                       | 17.01                |                     |          |
| 20              | 256QAM     | 100     | 0         | 17.08               | 17.36                      | 17.50                  | 17.21                       | 17.58                | Channel             |          |
| Frequency (MHz) |            |         |           | 2593.5              | 2546.3                     | 2593                   | 2637.6                      | 2682.5               | 18.6                | 0        |
| 15              | QPSK       | 1       | 0         | 17.45               | 17.26                      | 17.32                  | 17.54                       | 17.50                |                     |          |
| 15              | QPSK       | 1       | 37        | 17.48               | 17.44                      | 17.67                  | 17.57                       | 17.45                | 18.6                | 0        |
| 15              | QPSK       | 1       | 74        | 17.41               | 17.32                      | 17.57                  | 17.66                       | 17.69                |                     |          |
| 15              | QPSK       | 36      | 0         | 17.53               | 17.42                      | 17.46                  | 17.65                       | 17.65                | 18.6                | 0        |
| 15              | QPSK       | 36      | 20        | 17.56               | 17.55                      | 17.62                  | 17.80                       | 17.73                |                     |          |
| 15              | QPSK       | 36      | 39        | 17.45               | 17.39                      | 17.66                  | 17.80                       | 17.73                | 18.6                | 0        |
| 15              | QPSK       | 75      | 0         | 17.50               | 17.42                      | 17.62                  | 17.79                       | 17.67                |                     |          |
| 15              | 16QAM      | 1       | 0         | 17.71               | 17.41                      | 17.63                  | 17.71                       | 17.60                | 18.6                | 0        |
| 15              | 16QAM      | 1       | 37        | 17.61               | 17.71                      | 17.80                  | 17.80                       | 17.74                |                     |          |
| 15              | 16QAM      | 1       | 74        | 17.73               | 17.54                      | 17.70                  | 17.77                       | 17.74                | 18.6                | 0        |
| 15              | 16QAM      | 36      | 0         | 17.58               | 17.35                      | 17.51                  | 17.69                       | 17.56                |                     |          |
| 15              | 16QAM      | 36      | 20        | 17.55               | 17.51                      | 17.59                  | 17.74                       | 17.68                | 18.6                | 0        |
| 15              | 16QAM      | 36      | 39        | 17.59               | 17.40                      | 17.70                  | 17.79                       | 17.71                |                     |          |
| 15              | 16QAM      | 75      | 0         | 17.56               | 17.44                      | 17.57                  | 17.73                       | 17.58                | 18.6                | 0        |
| 15              | 64QAM      | 1       | 0         | 17.12               | 17.10                      | 17.10                  | 17.35                       | 17.26                |                     |          |
| 15              | 64QAM      | 1       | 37        | 17.15               | 17.36                      | 17.47                  | 17.55                       | 17.51                | 18.6                | 0        |
| 15              | 64QAM      | 1       | 74        | 17.22               | 17.12                      | 17.32                  | 17.32                       | 17.40                |                     |          |
| 15              | 64QAM      | 36      | 0         | 17.18               | 17.26                      | 17.23                  | 17.46                       | 17.41                | 18.6                | 0        |
| 15              | 64QAM      | 36      | 20        | 17.18               | 17.39                      | 17.34                  | 17.55                       | 17.51                |                     |          |
| 15              | 64QAM      | 36      | 39        | 17.20               | 17.32                      | 17.39                  | 17.44                       | 17.54                | 18.6                | 0        |
| 15              | 64QAM      | 75      | 0         | 17.12               | 17.35                      | 17.26                  | 17.46                       | 17.41                |                     |          |
| 15              | 256QAM     | 1       | 0         | 16.96               | 16.82                      | 17.06                  | 17.19                       | 16.98                | 18.6                | 0        |
| 15              | 256QAM     | 1       | 37        | 17.05               | 17.26                      | 17.07                  | 17.05                       | 17.03                |                     |          |
| 15              | 256QAM     | 1       | 74        | 17.00               | 16.91                      | 17.06                  | 17.10                       | 17.19                | 18.6                | 0        |
| 15              | 256QAM     | 36      | 0         | 16.99               | 17.10                      | 16.97                  | 17.17                       | 17.05                |                     |          |
| 15              | 256QAM     | 36      | 20        | 16.99               | 17.32                      | 17.28                  | 17.06                       | 17.04                | 18.6                | 0        |
| 15              | 256QAM     | 36      | 39        | 17.10               | 17.23                      | 17.31                  | 17.04                       | 17.05                |                     |          |
| 15              | 256QAM     | 75      | 0         | 16.88               | 17.21                      | 17.16                  | 17.22                       | 17.27                | Channel             |          |
| Frequency (MHz) |            |         |           | 2591                | 2547                       | 2593                   | 2639                        | 2685                 | 18.6                | 0        |
| 10              | QPSK       | 1       | 0         | 17.20               | 16.94                      | 17.12                  | 17.28                       | 17.22                |                     |          |
| 10              | QPSK       | 1       | 25        | 17.29               | 17.21                      | 17.38                  | 17.34                       | 17.42                | 18.6                | 0        |
| 10              | QPSK       | 1       | 49        | 17.36               | 17.06                      | 17.31                  | 17.29                       | 17.27                |                     |          |
| 10              | QPSK       | 25      | 0         | 17.34               | 17.22                      | 17.41                  | 17.46                       | 17.44                | 18.6                | 0        |
| 10              | QPSK       | 25      | 12        | 17.47               | 17.37                      | 17.50                  | 17.66                       | 17.60                |                     |          |
| 10              | QPSK       | 25      | 25        | 17.28               | 17.28                      | 17.39                  | 17.55                       | 17.57                | 18.6                | 0        |
| 10              | QPSK       | 50      | 0         | 17.34               | 17.30                      | 17.29                  | 17.58                       | 17.40                |                     |          |
| 10              | 16QAM      | 1       | 0         | 17.59               | 17.32                      | 17.38                  | 17.53                       | 17.61                | 18.6                | 0        |
| 10              | 16QAM      | 1       | 25        | 17.51               | 17.56                      | 17.64                  | 17.53                       | 17.74                |                     |          |
| 10              | 16QAM      | 1       | 49        | 17.45               | 17.31                      | 17.47                  | 17.65                       | 17.54                | 18.6                | 0        |
| 10              | 16QAM      | 25      | 0         | 17.44               | 17.41                      | 17.49                  | 17.45                       | 17.60                |                     |          |
| 10              | 16QAM      | 25      | 12        | 17.42               | 17.39                      | 17.50                  | 17.60                       | 17.65                | 18.6                | 0        |
| 10              | 16QAM      | 25      | 25        | 17.30               | 17.30                      | 17.52                  | 17.60                       | 17.63                |                     |          |
| 10              | 16QAM      | 50      | 0         | 17.37               | 17.35                      | 17.47                  | 17.62                       | 17.58                | 18.6                | 0        |
| 10              | 64QAM      | 1       | 0         | 17.01               | 16.99                      | 17.00                  | 17.12                       | 17.12                |                     |          |
| 10              | 64QAM      | 1       | 25        | 16.93               | 17.23                      | 17.31                  | 17.38                       | 17.35                | 18.6                | 0        |
| 10              | 64QAM      | 1       | 49        | 17.02               | 17.00                      | 17.08                  | 17.17                       | 17.07                |                     |          |
| 10              | 64QAM      | 25      | 0         | 17.00               | 17.23                      | 17.15                  | 17.30                       | 17.32                | 18.6                | 0        |
| 10              | 64QAM      | 25      | 12        | 17.07               | 17.34                      | 17.26                  | 17.47                       | 17.45                |                     |          |
| 10              | 64QAM      | 25      | 25        | 17.01               | 17.25                      | 17.22                  | 17.35                       | 17.32                | 18.6                | 0        |
| 10              | 64QAM      | 50      | 0         | 16.93               | 17.18                      | 17.09                  | 17.34                       | 17.25                |                     |          |
| 10              | 256QAM     | 1       | 0         | 16.95               | 16.71                      | 16.96                  | 16.96                       | 16.98                | 18.6                | 0        |
| 10              | 256QAM     | 1       | 25        | 16.93               | 17.15                      | 17.11                  | 17.18                       | 17.07                |                     |          |
| 10              | 256QAM     | 1       | 49        | 16.80               | 16.79                      | 16.85                  | 16.95                       | 16.86                | 18.6                | 0        |
| 10              | 256QAM     | 25      | 0         | 16.71               | 17.07                      | 16.89                  | 17.01                       | 17.16                |                     |          |
| 10              | 256QAM     | 25      | 12        | 16.88               | 17.07                      | 17.00                  | 17.08                       | 17.08                | 18.6                | 0        |
| 10              | 256QAM     | 25      | 25        | 16.91               | 17.16                      | 17.14                  | 17.05                       | 17.03                |                     |          |
| 10              | 256QAM     | 50      | 0         | 16.69               | 17.04                      | 16.99                  | 17.10                       | 17.11                | Channel             |          |
| Frequency (MHz) |            |         |           | 2496.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               | 18.6                | 0        |
| 5               | QPSK       | 1       | 0         | 17.32               | 17.23                      | 17.45                  | 17.54                       | 17.51                |                     |          |
| 5               | QPSK       | 1       | 12        | 17.27               | 17.30                      | 17.44                  | 17.55                       | 17.58                | 18.6                | 0        |
| 5               | QPSK       | 1       | 24        | 17.25               | 17.28                      | 17.44                  | 17.60                       | 17.49                |                     |          |
| 5               | QPSK       | 12      | 0         | 17.35               | 17.38                      | 17.46                  | 17.63                       | 17.65                | 18.6                | 0        |
| 5               | QPSK       | 12      | 7         | 17.39               | 17.47                      | 17.54                  | 17.60                       | 17.64                |                     |          |
| 5               | QPSK       | 12      | 13        | 17.36               | 17.42                      | 17.55                  | 17.65                       | 17.60                | 18.6                | 0        |
| 5               | QPSK       | 25      | 0         | 17.37               | 17.39                      | 17.43                  | 17.57                       | 17.59                |                     |          |
| 5               | 16QAM      | 1       | 0         | 17.63               | 17.42                      | 17.58                  | 17.75                       | 17.74                | 18.6                | 0        |
| 5               | 16QAM      | 1       | 12        | 17.46               | 17.44                      | 17.62                  | 17.80                       | 17.69                |                     |          |
| 5               | 16QAM      | 1       | 24        | 17.56               | 17.47                      | 17.68                  | 17.76                       | 17.73                | 18.6                | 0        |
| 5               | 16QAM      | 12      | 0         | 17.50               | 17.39                      | 17.52                  | 17.67                       | 17.71                |                     |          |
| 5               | 16QAM      | 12      | 7         | 17.43               | 17.48                      | 17.49                  | 17.68                       | 17.74                | 18.6                | 0        |
| 5               | 16QAM      | 12      | 13        | 17.46               | 17.48                      | 17.59                  | 17.72                       | 17.64                |                     |          |
| 5               | 16QAM      | 25      | 0         | 17.42               | 17.42                      | 17.55                  | 17.64                       | 17.59                | 18.6                | 0        |
| 5               | 64QAM      | 1       | 0         | 16.99               | 17.17                      | 17.15                  | 17.33                       | 17.35                |                     |          |
| 5               | 64QAM      | 1       | 12        | 16.96               | 17.25                      | 17.26                  | 17.37                       | 17.39                | 18.6                | 0        |
| 5               | 64QAM      | 1       | 24        | 16.98               | 17.25                      | 17.27                  | 17.37                       | 17.37                |                     |          |
| 5               | 64QAM      | 12      | 0         | 16.99               | 17.26                      | 17.18                  | 17.32                       | 17.36                | 18.6                | 0        |
| 5               | 64QAM      | 12      | 7         | 17.04               | 17.27                      | 17.26                  | 17.38                       | 17.40                |                     |          |
| 5               | 64QAM      | 12      | 13        | 17.03               | 17.27                      | 17.27                  | 17.40                       | 17.34                | 18.6                | 0        |
| 5               | 64QAM      | 25      | 0         | 17.02               | 17.31                      | 17.22                  | 17.33                       | 17.39                |                     |          |
| 5               | 256QAM     | 1       | 0         | 16.83               | 16.89                      | 17.11                  | 17.17                       | 17.07                | 18.6                | 0        |
| 5               | 256QAM     | 1       | 12        | 16.86               | 17.02                      | 17.01                  | 17.12                       | 17.16                |                     |          |

| LTE Band 48     |            |         |           |                       |                           |                            |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|---------------------------|----------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Mid Ch. / Freq. | Power High-Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 55340                 | 55830                     | 56150                      | 56640                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                      | 3641                       | 3690                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 14.03                 | 14.10                     | 14.06                      | 14.05                  | 14.8                | 0        |  |  |
| 20              | QPSK       | 1       | 49        | 14.22                 | 14.41                     | 14.23                      | 14.30                  |                     |          |  |  |
| 20              | QPSK       | 1       | 99        | 14.06                 | 14.14                     | 14.00                      | 14.04                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 14.09                 | 14.23                     | 14.11                      | 14.31                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 14.21                 | 14.36                     | 14.28                      | 14.28                  | 14.8                | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 14.07                 | 14.31                     | 14.20                      | 14.22                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 14.04                 | 14.30                     | 14.19                      | 14.22                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 14.08                 | 14.40                     | 14.24                      | 14.16                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 14.36                 | 14.38                     | 14.33                      | 14.20                  | 14.8                | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 14.24                 | 14.34                     | 14.39                      | 14.21                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 14.02                 | 14.20                     | 14.07                      | 14.10                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 14.11                 | 14.25                     | 14.21                      | 14.19                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 50        | 14.03                 | 14.16                     | 14.19                      | 14.15                  | 14.8                | 0        |  |  |
| 20              | 16QAM      | 100     | 0         | 14.01                 | 14.19                     | 14.16                      | 14.15                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 14.02                 | 14.11                     | 14.05                      | 14.00                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 14.22                 | 14.31                     | 14.24                      | 14.16                  | 14.8                | 0        |  |  |
| 20              | 64QAM      | 1       | 99        | 14.06                 | 14.02                     | 14.11                      | 14.01                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 0         | 14.10                 | 14.36                     | 14.24                      | 14.14                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 14.24                 | 14.34                     | 14.34                      | 14.24                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 50        | 14.15                 | 14.27                     | 14.30                      | 14.18                  | 14.8                | 0        |  |  |
| 20              | 64QAM      | 100     | 0         | 14.17                 | 14.36                     | 14.31                      | 14.23                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 0         | 13.89                 | 13.98                     | 13.97                      | 14.09                  |                     |          |  |  |
| 20              | 256QAM     | 1       | 49        | 13.95                 | 13.99                     | 13.93                      | 14.18                  | 14.8                | 0        |  |  |
| 20              | 256QAM     | 1       | 99        | 13.96                 | 14.01                     | 13.96                      | 14.24                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 0         | 14.02                 | 13.86                     | 13.95                      | 14.25                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 24        | 13.98                 | 13.88                     | 13.98                      | 14.17                  |                     |          |  |  |
| 20              | 256QAM     | 50      | 50        | 13.89                 | 13.91                     | 13.91                      | 14.10                  | 14.8                | 0        |  |  |
| 20              | 256QAM     | 100     | 0         | 13.87                 | 13.97                     | 13.86                      | 14.01                  |                     |          |  |  |
| Channel         |            |         |           | 55315                 | 55820                     | 56160                      | 56665                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                      | 3642                       | 3692.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 14.07                 | 14.09                     | 14.00                      | 14.09                  | 14.8                | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 14.15                 | 14.00                     | 14.02                      | 14.27                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 14.07                 | 14.02                     | 14.09                      | 14.16                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 14.10                 | 14.13                     | 14.05                      | 14.31                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 14.17                 | 14.19                     | 14.05                      | 14.28                  | 14.8                | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 14.12                 | 14.07                     | 14.09                      | 14.27                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 14.10                 | 14.10                     | 14.01                      | 14.23                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 14.10                 | 14.26                     | 14.07                      | 14.29                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 14.15                 | 14.29                     | 14.19                      | 14.21                  | 14.8                | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 14.00                 | 14.10                     | 14.20                      | 14.24                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 13.71                 | 13.94                     | 14.04                      | 14.15                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 13.76                 | 14.02                     | 14.09                      | 14.20                  | 14.8                | 0        |  |  |
| 15              | 16QAM      | 36      | 39        | 13.75                 | 13.93                     | 14.08                      | 14.16                  |                     |          |  |  |
| 15              | 16QAM      | 75      | 0         | 13.72                 | 13.87                     | 14.04                      | 14.14                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 13.72                 | 13.98                     | 14.03                      | 14.07                  | 14.8                | 0        |  |  |
| 15              | 64QAM      | 1       | 37        | 13.94                 | 14.01                     | 14.08                      | 14.16                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 13.88                 | 13.91                     | 14.03                      | 14.07                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 0         | 13.87                 | 13.79                     | 14.08                      | 14.19                  | 14.8                | 0        |  |  |
| 15              | 64QAM      | 36      | 20        | 13.84                 | 13.89                     | 14.06                      | 14.26                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 13.82                 | 13.80                     | 14.01                      | 14.21                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 13.89                 | 13.85                     | 14.00                      | 14.24                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 0         | 13.84                 | 13.88                     | 14.02                      | 14.17                  | 14.8                | 0        |  |  |
| 15              | 256QAM     | 1       | 37        | 14.06                 | 13.99                     | 13.93                      | 14.09                  |                     |          |  |  |
| 15              | 256QAM     | 1       | 74        | 13.90                 | 13.97                     | 13.85                      | 14.08                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 0         | 13.98                 | 14.08                     | 14.04                      | 13.91                  | 14.8                | 0        |  |  |
| 15              | 256QAM     | 36      | 20        | 13.90                 | 13.94                     | 13.95                      | 14.03                  |                     |          |  |  |
| 15              | 256QAM     | 36      | 39        | 13.81                 | 13.90                     | 13.89                      | 13.97                  |                     |          |  |  |
| 15              | 256QAM     | 75      | 0         | 13.84                 | 13.92                     | 13.78                      | 14.16                  |                     |          |  |  |
| Channel         |            |         |           | 55290                 | 55815                     | 56165                      | 56660                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                    | 3642.5                     | 3695                   |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 13.63                 | 13.69                     | 13.76                      | 14.08                  | 14.8                | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 14.05                 | 14.13                     | 14.04                      | 14.12                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 14.02                 | 14.01                     | 14.00                      | 14.09                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 13.81                 | 14.02                     | 13.95                      | 14.08                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 13.97                 | 14.11                     | 14.00                      | 14.12                  | 14.8                | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 14.00                 | 13.91                     | 13.94                      | 14.10                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 14.02                 | 13.87                     | 13.91                      | 14.05                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 14.11                 | 14.04                     | 13.99                      | 14.00                  | 14.8                | 0        |  |  |
| 10              | 16QAM      | 1       | 25        | 14.06                 | 13.95                     | 14.24                      | 14.18                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 49        | 13.97                 | 14.00                     | 14.11                      | 14.20                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 13.97                 | 14.01                     | 13.97                      | 14.08                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 14.01                 | 13.98                     | 13.92                      | 14.08                  | 14.8                | 0        |  |  |
| 10              | 16QAM      | 25      | 25        | 13.96                 | 13.87                     | 13.88                      | 14.02                  |                     |          |  |  |
| 10              | 16QAM      | 50      | 0         | 13.94                 | 13.90                     | 13.86                      | 14.02                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 13.77                 | 13.81                     | 13.95                      | 14.07                  | 14.8                | 0        |  |  |
| 10              | 64QAM      | 1       | 25        | 14.01                 | 13.92                     | 13.86                      | 14.07                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 13.83                 | 13.90                     | 13.78                      | 14.04                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 0         | 13.91                 | 14.01                     | 13.97                      | 14.05                  | 14.8                | 0        |  |  |
| 10              | 64QAM      | 25      | 12        | 13.83                 | 13.87                     | 13.88                      | 14.08                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 13.74                 | 13.83                     | 13.82                      | 14.07                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 13.77                 | 13.85                     | 13.71                      | 14.08                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 0         | 13.89                 | 13.96                     | 13.92                      | 13.87                  | 14.8                | 0        |  |  |
| 10              | 256QAM     | 1       | 25        | 13.96                 | 14.05                     | 13.98                      | 14.25                  |                     |          |  |  |
| 10              | 256QAM     | 1       | 49        | 13.93                 | 13.89                     | 13.98                      | 13.93                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 0         | 13.97                 | 14.10                     | 13.98                      | 13.97                  | 14.8                | 0        |  |  |
| 10              | 256QAM     | 25      | 12        | 13.98                 | 14.08                     | 14.08                      | 13.95                  |                     |          |  |  |
| 10              | 256QAM     | 25      | 25        | 14.02                 | 14.01                     | 14.17                      | 14.13                  |                     |          |  |  |
| 10              | 256QAM     | 50      | 0         | 13.91                 | 14.10                     | 14.05                      | 13.90                  |                     |          |  |  |
| Channel         |            |         |           | 55265                 | 55810                     | 56170                      | 56715                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                      | 3643                       | 3697.5                 |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 13.79                 | 13.76                     | 13.89                      | 14.07                  | 14.8                | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 14.01                 | 13.88                     | 14.07                      | 14.09                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 13.97                 | 13.83                     | 13.93                      | 14.09                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 14.01                 | 14.06                     | 13.97                      | 14.14                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 14.09                 | 13.97                     | 13.85                      | 14.14                  | 14.8                | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 13.99                 | 13.93                     | 13.90                      | 14.12                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 13.93                 | 13.85                     | 13.99                      | 14.06                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 13.91                 | 13.87                     | 13.93                      | 14.13                  | 14.8                | 0        |  |  |
| 5               | 16QAM      | 1       | 12        | 14.10                 | 14.01                     | 14.04                      | 14.23                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 24        | 14.06                 | 13.94                     | 14.07                      | 14.27                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 14.03</               |                           |                            |                        |                     |          |  |  |

| Reduced power level 2/4 for Head-UAT |  |                           |       |        |                           |                           |       |        |                           |
|--------------------------------------|--|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850                               |  | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel                           |  | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz)                      |  | 824.2                     | 836.4 | 848.6  | (dBm)                     | 824.2                     | 836.4 | 848.6  | (dBm)                     |
| GSM 1 Tx slot                        |  | 28.17                     | 28.20 | 28.18  | 28.80                     | 19.17                     | 19.20 | 19.16  | 19.80                     |
| GPRS 1 Tx slot                       |  | 28.05                     | 28.17 | 28.15  | 28.80                     | 19.05                     | 19.17 | 19.15  | 19.80                     |
| GPRS 2 Tx slots                      |  | 26.46                     | 26.65 | 26.58  | 27.30                     | 20.46                     | 20.65 | 20.58  | 21.30                     |
| GPRS 3 Tx slots                      |  | 24.94                     | 25.01 | 25.00  | 25.80                     | 20.68                     | 20.75 | 20.74  | 21.54                     |
| GPRS 4 Tx slots                      |  | 23.47                     | 23.74 | 23.55  | 24.50                     | 20.47                     | 20.74 | 20.55  | 21.50                     |
| EDGE 1 Tx slot                       |  | 22.10                     | 22.17 | 22.15  | 22.80                     | 13.10                     | 13.17 | 13.15  | 13.80                     |
| EDGE 2 Tx slots                      |  | 20.46                     | 20.57 | 20.53  | 20.80                     | 14.46                     | 14.57 | 14.53  | 14.80                     |
| EDGE 3 Tx slots                      |  | 19.32                     | 19.56 | 19.43  | 19.80                     | 15.06                     | 15.30 | 15.17  | 15.54                     |
| EDGE 4 Tx slots                      |  | 18.58                     | 18.82 | 18.69  | 19.20                     | 15.58                     | 15.82 | 15.69  | 16.20                     |
| GSM1900                              |  | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel                           |  | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz)                      |  | 1850.2                    | 1880  | 1909.8 | (dBm)                     | 1850.2                    | 1880  | 1909.8 | (dBm)                     |
| GSM 1 Tx slot                        |  | 20.89                     | 20.75 | 20.89  | 21.80                     | 11.89                     | 11.75 | 11.89  | 12.80                     |
| GPRS 1 Tx slot                       |  | 20.69                     | 20.78 | 20.80  | 21.80                     | 11.69                     | 11.78 | 11.80  | 12.80                     |
| GPRS 2 Tx slots                      |  | 18.03                     | 18.34 | 18.14  | 19.30                     | 12.03                     | 12.34 | 12.14  | 13.30                     |
| GPRS 3 Tx slots                      |  | 16.93                     | 17.23 | 16.91  | 18.00                     | 12.67                     | 12.97 | 12.65  | 13.74                     |
| GPRS 4 Tx slots                      |  | 15.42                     | 15.73 | 15.56  | 16.50                     | 12.42                     | 12.73 | 12.56  | 13.50                     |
| EDGE 1 Tx slot                       |  | 16.54                     | 16.82 | 16.67  | 17.30                     | 7.54                      | 7.82  | 7.57   | 8.30                      |
| EDGE 2 Tx slots                      |  | 14.73                     | 14.64 | 14.97  | 16.20                     | 8.73                      | 8.64  | 8.97   | 10.20                     |
| EDGE 3 Tx slots                      |  | 13.63                     | 14.03 | 13.88  | 15.10                     | 9.37                      | 9.77  | 9.62   | 10.84                     |
| EDGE 4 Tx slots                      |  | 12.44                     | 12.66 | 12.68  | 14.10                     | 9.44                      | 9.66  | 9.68   | 11.10                     |

| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                         | 5262     | 5400  | 5538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 12.22    | 12.02 | 12.07  | 13.30                     | 12.68    | 12.74  | 12.82  | 13.80                     | 19.74   | 19.71 | 19.68 | 20.30                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 12.24    | 12.04 | 12.12  | 13.30                     | 12.70    | 12.77  | 12.85  | 13.80                     | 19.77   | 19.73 | 19.71 | 20.30                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 11.46    | 11.54 | 11.53  | 12.30                     | 11.53    | 11.71  | 11.69  | 12.80                     | 18.69   | 18.79 | 18.80 | 19.30                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 11.49    | 11.56 | 11.52  | 12.30                     | 11.52    | 11.67  | 11.69  | 12.80                     | 18.44   | 18.76 | 18.79 | 19.30                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 10.94    | 11.05 | 11.05  | 11.80                     | 11.07    | 11.18  | 11.15  | 12.30                     | 18.19   | 17.92 | 18.27 | 18.80                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 10.93    | 11.03 | 11.03  | 11.80                     | 11.05    | 11.15  | 11.18  | 12.30                     | 18.21   | 18.28 | 18.28 | 18.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 11.45    | 11.48 | 11.46  | 12.30                     | 11.54    | 11.58  | 11.65  | 12.80                     | 18.67   | 18.77 | 18.79 | 19.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 11.41    | 11.46 | 11.43  | 12.30                     | 11.50    | 11.55  | 11.62  | 12.80                     | 18.39   | 18.70 | 18.79 | 19.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 10.90    | 10.93 | 10.87  | 11.80                     | 11.09    | 11.14  | 11.17  | 12.30                     | 18.16   | 17.93 | 18.27 | 18.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 10.83    | 10.92 | 10.88  | 11.80                     | 11.06    | 11.11  | 11.14  | 12.30                     | 18.18   | 18.30 | 18.26 | 18.80                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 11.42    | 11.54 | 11.55  | 12.30                     | 11.55    | 11.70  | 11.67  | 12.80                     | 18.53   | 18.61 | 18.62 | 19.30                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 9.46     | 9.54  | 9.55   | 10.30                     | 9.55     | 9.71   | 9.72   | 10.80                     | 16.26   | 16.61 | 16.64 | 17.30                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 10.44    | 10.55 | 10.57  | 11.30                     | 10.80    | 10.89  | 10.71  | 11.80                     | 17.60   | 17.28 | 17.06 | 18.30                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 9.46     | 9.55  | 9.53   | 10.30                     | 9.57     | 9.69   | 9.65   | 10.80                     | 16.61   | 16.60 | 16.65 | 17.30                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 11.42    | 11.62 | 11.62  | 12.30                     | 11.26    | 11.68  | 11.66  | 12.80                     | 18.10   | 18.15 | 18.29 | 19.30                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 9.59     | 9.82  | 9.57   | 10.30                     | 9.71     | 9.88   | 9.77   | 10.80                     | 16.73   | 16.64 | 16.69 | 17.30                     |

| Band             |  | CDMA BC9 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel       |  | 1013     | 384    | 777    |                           | 25       | 690   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 S05S         |  | 19.53    | 19.55  | 19.50  | 20.30                     | 12.12    | 12.15 | 12.22   | 13.30                     | 20.24     | 20.26 | 20.13 | 20.80                     |
| RC3 S05S         |  | 19.52    | 19.54  | 19.49  | 20.30                     | 12.09    | 12.11 | 12.21   | 13.30                     | 20.23     | 20.25 | 20.12 | 20.80                     |
| RC3 S032 (F-RCH) |  | 19.49    | 19.52  | 19.48  | 20.30                     | 12.08    | 12.10 | 12.20   | 13.30                     | 20.22     | 20.24 | 20.11 | 20.80                     |
| RC3 S032 (F-RCH) |  | 19.48    | 19.49  | 19.46  | 20.30                     | 12.03    | 12.09 | 12.18   | 13.30                     | 20.21     | 20.24 | 20.10 | 20.80                     |
| RTAP 153.6Kbps   |  | 19.43    | 19.47  | 19.45  | 20.30                     | 12.01    | 12.08 | 12.17   | 13.30                     | 20.21     | 20.23 | 20.09 | 20.80                     |
| RETAP 4096Kbs    |  | 19.41    | 19.46  | 19.43  | 20.30                     | 12.00    | 12.07 | 12.15   | 13.30                     | 20.20     | 20.23 | 20.09 | 20.80                     |















| Reduced power level 3 for Head-UAT |  |                           |       |       |                     |                           |       |       |                     |
|------------------------------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| GSM850                             |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |       | Tune-up Limit (dBm) |
| TX Channel                         |  | 128                       | 189   | 261   |                     | 128                       | 189   | 261   |                     |
| Frequency (MHz)                    |  | 824.2                     | 836.4 | 848.6 |                     | 824.2                     | 836.4 | 848.6 |                     |
| GSM 1 Tx slot                      |  | 29.67                     | 29.70 | 29.68 | 30.30               | 20.67                     | 20.70 | 20.68 | 21.30               |
| GPRS 1 Tx slot                     |  | 29.55                     | 29.67 | 29.65 | 30.30               | 20.55                     | 20.67 | 20.65 | 21.30               |
| GPRS 2 Tx slots                    |  | 27.96                     | 28.15 | 28.08 | 28.80               | 21.96                     | 22.15 | 22.08 | 22.80               |
| GPRS 3 Tx slots                    |  | 26.34                     | 26.51 | 26.50 | 27.30               | 22.08                     | 22.25 | 22.24 | 23.04               |
| GPRS 4 Tx slots                    |  | 24.97                     | 25.24 | 25.05 | 26.00               | 21.97                     | 22.24 | 22.05 | 23.00               |
| EDGE 1 Tx slot                     |  | 23.80                     | 23.67 | 23.65 | 24.30               | 14.60                     | 14.67 | 14.65 | 15.30               |
| EDGE 2 Tx slots                    |  | 21.96                     | 22.07 | 22.03 | 22.30               | 15.96                     | 16.07 | 16.03 | 16.30               |
| EDGE 3 Tx slots                    |  | 20.62                     | 21.08 | 20.93 | 21.30               | 16.58                     | 16.80 | 16.67 | 17.04               |
| EDGE 4 Tx slots                    |  | 20.08                     | 20.32 | 20.19 | 20.70               | 17.08                     | 17.32 | 17.19 | 17.70               |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) |  | 1850.2                    | 1860  | 1909.8 |                     | 1850.2                    | 1860  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 22.10                     | 22.32 | 22.26  | 23.30               | 13.10                     | 13.32 | 13.26  | 14.30               |
| GPRS 1 Tx slot  |  | 22.09                     | 22.29 | 22.24  | 23.30               | 13.09                     | 13.29 | 13.24  | 14.30               |
| GPRS 2 Tx slots |  | 19.56                     | 19.84 | 19.66  | 20.80               | 13.56                     | 13.84 | 13.66  | 14.80               |
| GPRS 3 Tx slots |  | 18.64                     | 18.90 | 18.75  | 19.50               | 14.38                     | 14.64 | 14.49  | 15.24               |
| GPRS 4 Tx slots |  | 17.08                     | 17.30 | 17.27  | 18.00               | 14.08                     | 14.30 | 14.27  | 15.00               |
| EDGE 1 Tx slot  |  | 18.08                     | 17.89 | 17.89  | 18.80               | 9.08                      | 8.88  | 8.89   | 9.80                |
| EDGE 2 Tx slots |  | 16.62                     | 17.00 | 16.99  | 17.70               | 10.62                     | 11.00 | 10.99  | 11.70               |
| EDGE 3 Tx slots |  | 15.59                     | 15.61 | 15.36  | 16.60               | 11.33                     | 11.35 | 11.10  | 12.34               |
| EDGE 4 Tx slots |  | 14.45                     | 14.53 | 14.56  | 15.60               | 11.45                     | 11.53 | 11.56  | 12.60               |

| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                         | 5262     | 5400  | 5538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 13.04    | 12.84 | 12.89  | 14.30                     | 13.44    | 13.50  | 13.58  | 14.80                     | 20.56   | 20.55 | 20.52 | 21.30                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 13.06    | 12.86 | 12.94  | 14.30                     | 13.46    | 13.53  | 13.61  | 14.80                     | 20.61   | 20.57 | 20.55 | 21.30                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 12.28    | 12.35 | 12.35  | 13.30                     | 12.29    | 12.47  | 12.44  | 13.80                     | 19.53   | 19.63 | 19.64 | 20.30                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 12.31    | 12.38 | 12.34  | 13.30                     | 12.28    | 12.43  | 12.45  | 13.80                     | 19.28   | 19.62 | 19.63 | 20.30                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 11.76    | 11.87 | 11.87  | 12.80                     | 11.83    | 11.94  | 11.91  | 13.30                     | 19.03   | 18.76 | 19.11 | 19.80                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 11.75    | 11.85 | 11.85  | 12.80                     | 11.81    | 11.91  | 11.94  | 13.30                     | 19.05   | 19.12 | 19.12 | 19.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-1      | 12.27    | 12.30 | 12.28  | 13.30                     | 12.30    | 12.34  | 12.41  | 13.80                     | 19.51   | 19.61 | 19.63 | 20.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-2      | 12.23    | 12.28 | 12.25  | 13.30                     | 12.28    | 12.31  | 12.38  | 13.80                     | 19.23   | 19.54 | 19.60 | 20.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-3      | 11.72    | 11.75 | 11.69  | 12.80                     | 11.85    | 11.90  | 11.93  | 13.30                     | 19.00   | 19.77 | 19.11 | 19.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-4      | 11.65    | 11.74 | 11.70  | 12.80                     | 11.82    | 11.87  | 11.90  | 13.30                     | 19.02   | 19.14 | 19.10 | 19.80                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 12.24    | 12.36 | 12.37  | 13.30                     | 12.31    | 12.46  | 12.43  | 13.80                     | 19.37   | 19.45 | 19.46 | 20.30                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 10.28    | 10.36 | 10.37  | 11.30                     | 10.31    | 10.47  | 10.48  | 11.80                     | 17.10   | 17.45 | 17.48 | 18.30                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 11.26    | 11.37 | 11.39  | 12.30                     | 11.36    | 11.45  | 11.47  | 12.80                     | 18.44   | 18.12 | 18.50 | 19.30                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 10.28    | 10.37 | 10.35  | 11.30                     | 10.33    | 10.45  | 10.41  | 11.80                     | 17.45   | 17.44 | 17.49 | 18.30                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 12.24    | 12.34 | 12.44  | 13.30                     | 12.02    | 12.42  | 12.42  | 13.80                     | 18.94   | 18.99 | 19.13 | 20.30                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 10.41    | 10.44 | 10.39  | 11.30                     | 10.47    | 10.64  | 10.53  | 11.80                     | 17.57   | 17.48 | 17.53 | 18.30                     |

| Band             |  | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel       |  | 1913     | 394    | 777    |                           | 25       | 609   | 1175    |                           | 476       | 590   | 684   |                           |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                           | 1951.25  | 1980  | 1998.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 505S         |  | 20.53    | 20.55  | 20.50  | 21.30                     | 13.62    | 13.65 | 13.72   | 14.80                     | 21.24     | 21.26 | 21.13 | 21.80                     |
| RC3 505S         |  | 20.52    | 20.54  | 20.49  | 21.30                     | 13.59    | 13.61 | 13.71   | 14.80                     | 21.23     | 21.25 | 21.12 | 21.80                     |
| RC3 5032 (F+SCH) |  | 20.49    | 20.52  | 20.48  | 21.30                     | 13.58    | 13.60 | 13.70   | 14.80                     | 21.22     | 21.24 | 21.11 | 21.80                     |
| RC3 5035 (F+SCH) |  | 20.48    | 20.49  | 20.46  | 21.30                     | 13.53    | 13.59 | 13.68   | 14.80                     | 21.21     | 21.24 | 21.10 | 21.80                     |
| RTAP 151 600ps   |  | 20.43    | 20.47  | 20.45  | 21.30                     | 13.51    | 13.59 | 13.67   | 14.80                     | 21.21     | 21.23 | 21.09 | 21.80                     |
| RETAP 40968ps    |  | 20.41    | 20.46  | 20.43  | 21.30                     | 13.50    | 13.57 | 13.65   | 14.80                     | 21.20     | 21.23 | 21.09 | 21.80                     |











LTE Band 41HPU

| BW [kHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        |                        |             |
| Frequency (MHz) |            |         |           | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                        |             |
| 20              | QPSK       | 1       | 0         | 17.95                       | 17.84                              | 17.89                          | 17.74                               | 17.73                        | 18.6                   | 0           |
| 20              | QPSK       | 1       | 49        | 17.91                       | 17.96                              | 18.01                          | 18.04                               | 18.03                        |                        |             |
| 20              | QPSK       | 1       | 99        | 17.92                       | 17.87                              | 18.07                          | 17.83                               | 18.06                        |                        |             |
| 20              | QPSK       | 50      | 0         | 17.81                       | 17.84                              | 17.90                          | 17.73                               | 17.73                        |                        |             |
| 20              | QPSK       | 50      | 24        | 17.88                       | 17.71                              | 18.02                          | 17.81                               | 17.78                        | 18.6                   | 0           |
| 20              | QPSK       | 50      | 50        | 17.85                       | 17.69                              | 17.91                          | 17.78                               | 17.78                        |                        |             |
| 20              | QPSK       | 100     | 0         | 17.81                       | 17.86                              | 17.92                          | 17.78                               | 17.74                        |                        |             |
| 20              | 16QAM      | 1       | 0         | 17.94                       | 17.83                              | 17.85                          | 17.55                               | 17.57                        |                        |             |
| 20              | 16QAM      | 1       | 49        | 17.85                       | 17.80                              | 17.93                          | 17.93                               | 17.94                        | 18.6                   | 0           |
| 20              | 16QAM      | 1       | 99        | 17.88                       | 17.91                              | 17.74                          | 17.80                               | 17.94                        |                        |             |
| 20              | 16QAM      | 50      | 0         | 17.72                       | 17.58                              | 17.95                          | 17.75                               | 17.85                        |                        |             |
| 20              | 16QAM      | 50      | 24        | 17.74                       | 17.85                              | 17.94                          | 17.92                               | 17.95                        |                        |             |
| 20              | 16QAM      | 50      | 50        | 17.75                       | 17.82                              | 17.92                          | 17.88                               | 17.92                        | 18.6                   | 0           |
| 20              | 16QAM      | 100     | 0         | 17.67                       | 17.69                              | 17.94                          | 17.69                               | 17.87                        |                        |             |
| 20              | 64QAM      | 1       | 0         | 17.36                       | 17.54                              | 17.42                          | 17.44                               | 17.33                        |                        |             |
| 20              | 64QAM      | 1       | 49        | 17.35                       | 17.51                              | 17.68                          | 17.67                               | 17.74                        |                        |             |
| 20              | 64QAM      | 1       | 99        | 17.49                       | 17.55                              | 17.28                          | 17.35                               | 17.50                        | 18.6                   | 0           |
| 20              | 64QAM      | 50      | 0         | 17.40                       | 17.48                              | 17.61                          | 17.40                               | 17.58                        |                        |             |
| 20              | 64QAM      | 50      | 24        | 17.41                       | 17.58                              | 17.70                          | 17.54                               | 17.81                        |                        |             |
| 20              | 64QAM      | 50      | 50        | 17.38                       | 17.60                              | 17.61                          | 17.57                               | 17.80                        |                        |             |
| 20              | 64QAM      | 100     | 0         | 17.32                       | 17.50                              | 17.60                          | 17.45                               | 17.72                        | 18.6                   | 0           |
| 20              | 256QAM     | 1       | 0         | 16.93                       | 16.96                              | 17.05                          | 16.98                               | 16.75                        |                        |             |
| 20              | 256QAM     | 1       | 49        | 17.07                       | 17.20                              | 17.16                          | 17.09                               | 17.03                        |                        |             |
| 20              | 256QAM     | 1       | 99        | 16.97                       | 16.76                              | 16.75                          | 16.83                               | 16.71                        |                        |             |
| 20              | 256QAM     | 50      | 0         | 17.11                       | 17.32                              | 17.35                          | 17.11                               | 17.12                        | 18.6                   | 0           |
| 20              | 256QAM     | 50      | 24        | 17.22                       | 17.01                              | 17.04                          | 17.05                               | 17.20                        |                        |             |
| 20              | 256QAM     | 50      | 50        | 17.28                       | 17.51                              | 17.03                          | 17.47                               | 17.01                        |                        |             |
| 20              | 256QAM     | 100     | 0         | 17.08                       | 17.36                              | 17.50                          | 17.21                               | 17.58                        |                        |             |
| Channel         |            |         |           | 39725                       | 40173                              | 40620                          | 41068                               | 41515                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2546.3                             | 2593                           | 2637.8                              | 2682.5                       |                        |             |
| 15              | QPSK       | 1       | 0         | 17.45                       | 17.26                              | 17.32                          | 17.54                               | 17.50                        | 18.6                   | 0           |
| 15              | QPSK       | 1       | 37        | 17.48                       | 17.44                              | 17.67                          | 17.57                               | 17.45                        |                        |             |
| 15              | QPSK       | 1       | 74        | 17.41                       | 17.32                              | 17.57                          | 17.66                               | 17.69                        |                        |             |
| 15              | QPSK       | 36      | 0         | 17.53                       | 17.42                              | 17.49                          | 17.85                               | 17.85                        |                        |             |
| 15              | QPSK       | 36      | 20        | 17.36                       | 17.55                              | 17.62                          | 17.80                               | 17.73                        | 18.6                   | 0           |
| 15              | QPSK       | 36      | 39        | 17.45                       | 17.39                              | 17.66                          | 17.80                               | 17.73                        |                        |             |
| 15              | QPSK       | 75      | 0         | 17.50                       | 17.42                              | 17.62                          | 17.79                               | 17.67                        |                        |             |
| 15              | 16QAM      | 1       | 0         | 17.71                       | 17.41                              | 17.63                          | 17.71                               | 17.60                        |                        |             |
| 15              | 16QAM      | 1       | 37        | 17.81                       | 17.71                              | 17.80                          | 17.80                               | 17.74                        | 18.6                   | 0           |
| 15              | 16QAM      | 1       | 74        | 17.73                       | 17.54                              | 17.70                          | 17.77                               | 17.74                        |                        |             |
| 15              | 16QAM      | 36      | 0         | 17.58                       | 17.35                              | 17.51                          | 17.69                               | 17.56                        |                        |             |
| 15              | 16QAM      | 36      | 20        | 17.55                       | 17.51                              | 17.59                          | 17.74                               | 17.68                        |                        |             |
| 15              | 16QAM      | 36      | 39        | 17.59                       | 17.40                              | 17.70                          | 17.79                               | 17.71                        | 18.6                   | 0           |
| 15              | 16QAM      | 75      | 0         | 17.58                       | 17.44                              | 17.57                          | 17.73                               | 17.58                        |                        |             |
| 15              | 64QAM      | 1       | 0         | 17.12                       | 17.10                              | 17.10                          | 17.35                               | 17.26                        |                        |             |
| 15              | 64QAM      | 1       | 37        | 17.15                       | 17.36                              | 17.47                          | 17.55                               | 17.51                        |                        |             |
| 15              | 64QAM      | 1       | 74        | 17.22                       | 17.12                              | 17.32                          | 17.32                               | 17.40                        | 18.6                   | 0           |
| 15              | 64QAM      | 36      | 0         | 17.18                       | 17.26                              | 17.23                          | 17.46                               | 17.41                        |                        |             |
| 15              | 64QAM      | 36      | 20        | 17.18                       | 17.39                              | 17.34                          | 17.55                               | 17.51                        |                        |             |
| 15              | 64QAM      | 36      | 39        | 17.20                       | 17.32                              | 17.39                          | 17.44                               | 17.54                        |                        |             |
| 15              | 64QAM      | 75      | 0         | 17.12                       | 17.35                              | 17.26                          | 17.46                               | 17.41                        | 18.6                   | 0           |
| 15              | 256QAM     | 1       | 0         | 16.96                       | 16.82                              | 17.06                          | 17.19                               | 16.98                        |                        |             |
| 15              | 256QAM     | 1       | 37        | 17.05                       | 17.28                              | 17.67                          | 17.05                               | 17.03                        |                        |             |
| 15              | 256QAM     | 1       | 74        | 17.20                       | 16.91                              | 17.29                          | 17.10                               | 17.19                        |                        |             |
| 15              | 256QAM     | 36      | 0         | 16.99                       | 17.10                              | 16.97                          | 17.17                               | 17.05                        | 18.6                   | 0           |
| 15              | 256QAM     | 36      | 20        | 16.99                       | 17.32                              | 17.28                          | 17.06                               | 17.04                        |                        |             |
| 15              | 256QAM     | 36      | 39        | 17.10                       | 17.23                              | 17.31                          | 17.04                               | 17.05                        |                        |             |
| 15              | 256QAM     | 75      | 0         | 16.88                       | 17.21                              | 17.16                          | 17.22                               | 17.27                        |                        |             |
| Channel         |            |         |           | 39700                       | 40160                              | 40620                          | 41080                               | 41540                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2501                        | 2547                               | 2593                           | 2639                                | 2685                         |                        |             |
| 10              | QPSK       | 1       | 0         | 17.20                       | 16.94                              | 17.12                          | 17.28                               | 17.22                        | 18.6                   | 0           |
| 10              | QPSK       | 1       | 25        | 17.29                       | 17.21                              | 17.38                          | 17.34                               | 17.42                        |                        |             |
| 10              | QPSK       | 1       | 49        | 17.36                       | 17.06                              | 17.31                          | 17.29                               | 17.27                        |                        |             |
| 10              | QPSK       | 25      | 0         | 17.34                       | 17.22                              | 17.41                          | 17.46                               | 17.44                        |                        |             |
| 10              | QPSK       | 25      | 12        | 17.47                       | 17.37                              | 17.50                          | 17.66                               | 17.60                        | 18.6                   | 0           |
| 10              | QPSK       | 25      | 25        | 17.29                       | 17.28                              | 17.39                          | 17.55                               | 17.57                        |                        |             |
| 10              | QPSK       | 50      | 0         | 17.34                       | 17.30                              | 17.29                          | 17.58                               | 17.40                        |                        |             |
| 10              | 16QAM      | 1       | 0         | 17.59                       | 17.32                              | 17.38                          | 17.53                               | 17.61                        |                        |             |
| 10              | 16QAM      | 1       | 25        | 17.51                       | 17.56                              | 17.64                          | 17.53                               | 17.74                        | 18.6                   | 0           |
| 10              | 16QAM      | 1       | 49        | 17.45                       | 17.31                              | 17.47                          | 17.65                               | 17.54                        |                        |             |
| 10              | 16QAM      | 25      | 0         | 17.44                       | 17.41                              | 17.49                          | 17.45                               | 17.60                        |                        |             |
| 10              | 16QAM      | 25      | 12        | 17.42                       | 17.39                              | 17.50                          | 17.80                               | 17.65                        |                        |             |
| 10              | 16QAM      | 25      | 25        | 17.30                       | 17.30                              | 17.52                          | 17.60                               | 17.63                        | 18.6                   | 0           |
| 10              | 16QAM      | 50      | 0         | 17.37                       | 17.35                              | 17.47                          | 17.62                               | 17.58                        |                        |             |
| 10              | 64QAM      | 1       | 0         | 17.01                       | 16.99                              | 17.00                          | 17.12                               | 17.12                        |                        |             |
| 10              | 64QAM      | 1       | 25        | 16.93                       | 17.23                              | 17.31                          | 17.28                               | 17.35                        |                        |             |
| 10              | 64QAM      | 1       | 49        | 17.02                       | 17.00                              | 17.08                          | 17.17                               | 17.07                        | 18.6                   | 0           |
| 10              | 64QAM      | 25      | 0         | 17.00                       | 17.23                              | 17.15                          | 17.30                               | 17.32                        |                        |             |
| 10              | 64QAM      | 25      | 12        | 17.07                       | 17.34                              | 17.26                          | 17.47                               | 17.45                        |                        |             |
| 10              | 64QAM      | 25      | 25        | 17.01                       | 17.25                              | 17.22                          | 17.35                               | 17.32                        |                        |             |
| 10              | 64QAM      | 50      | 0         | 16.93                       | 17.18                              | 17.09                          | 17.34                               | 17.25                        | 18.6                   | 0           |
| 10              | 256QAM     | 1       | 0         | 16.95                       | 16.71                              | 16.96                          | 16.96                               | 16.98                        |                        |             |
| 10              | 256QAM     | 1       | 25        | 16.93                       | 17.15                              | 17.11                          | 17.16                               | 17.07                        |                        |             |
| 10              | 256QAM     | 1       | 49        | 16.80                       | 16.79                              | 16.85                          | 16.85                               | 16.86                        |                        |             |
| 10              | 256QAM     | 25      | 0         | 16.71                       | 17.07                              | 16.89                          | 17.01                               | 17.16                        | 18.6                   | 0           |
| 10              | 256QAM     | 25      | 12        | 16.88                       | 17.07                              | 17.00                          | 17.08                               | 17.08                        |                        |             |
| 10              | 256QAM     | 25      | 25        | 16.91                       | 17.16                              | 17.14                          | 17.05                               | 17.03                        |                        |             |
| 10              | 256QAM     | 50      | 0         | 16.89                       | 17.04                              | 16.99                          | 17.10                               | 17.11                        |                        |             |
| Channel         |            |         |           | 39675                       | 40148                              | 40620                          | 41093                               | 41565                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2496.5                      | 2545.8                             | 2593                           | 2640.30                             | 2687.5                       |                        |             |
| 5               | QPSK       | 1       | 0         | 17.32                       | 17.23                              | 17.45                          | 17.54                               | 17.51                        | 18.6                   | 0           |
| 5               | QPSK       | 1       | 12        | 17.27                       | 17.30                              | 17.44                          | 17.55                               | 17.58                        |                        |             |
| 5               | QPSK       | 1       | 24        | 17.25                       | 17.28                              | 17.44                          | 17.60                               | 17.49                        |                        |             |
| 5               | QPSK       | 12      | 0         | 17.35                       | 17.38                              | 17.46                          | 17.63                               | 17.65                        |                        |             |
| 5               | QPSK       | 12      | 7         | 17.39                       | 17.47                              | 17.54                          | 17.60                               | 17.64                        | 18.6                   | 0           |
| 5               | QPSK       | 12      | 13        | 17.36                       | 17.42                              | 17.55                          | 17.65                               | 17.60                        |                        |             |
| 5               | QPSK       | 25      | 0         | 17.37                       | 17.39                              | 17.43                          | 17.57                               | 17.59                        |                        |             |
| 5               | 16QAM      | 1       | 0         | 17.63                       | 17.42                              | 17.58                          | 17.75                               | 17.74                        |                        |             |
| 5               | 16QAM      | 1       | 12        | 17.46                       | 17.44                              | 17.62                          | 17.80                               | 17.69                        | 18.6                   | 0           |
| 5               | 16QAM      | 1       | 24        | 17.56                       | 17.47                              | 17.68                          | 17.76                               | 17.73                        |                        |             |
| 5               | 16QAM      | 12      | 0         | 17.50                       | 17.39                              | 17.52                          | 17.67                               | 17.71                        |                        |             |
| 5               | 16QAM      | 12      | 7         | 17.43                       | 17.48                              | 17.49                          | 17.68                               | 17.74                        |                        |             |
| 5               | 16QAM      | 12      | 13        | 17.46                       | 17.48                              | 17.59                          | 17.72                               | 17.64                        | 18.6                   | 0           |
| 5               | 16QAM      | 25      | 0         | 17.42                       | 17.42                              | 17.55                          | 17.64                               | 17.59                        |                        |             |
| 5               | 64QAM      | 1       | 0         | 16.99                       | 17.17                              | 17.15                          | 17.33                               | 17.35                        |                        |             |
| 5               | 64QAM      | 1       | 12        | 16.96                       | 17.25                              | 17.26                          | 17.37                               | 17.39                        |                        |             |
| 5               | 64QAM      | 1       | 24        | 16.98                       | 17.25                              | 17.27                          | 17.37                               | 17.37                        | 18.6                   | 0           |
| 5               | 64QAM      | 12      | 0         | 16.99                       | 17.26                              | 17.18                          | 17.32                               | 17.38                        |                        |             |
| 5               | 64QAM      | 12      | 7         | 17.04                       | 17.27                              | 17.26                          | 17.38                               | 17.40                        |                        |             |
| 5               | 64QAM      | 12      | 13        | 17.03                       | 17.27                              | 17.27                          | 17.40                               | 17.34                        |                        |             |
| 5               | 64QAM      | 25      | 0         | 17.02                       | 17.31                              | 17.22                          | 17.33                               | 17.39                        | 18.6                   | 0           |
| 5               | 256QAM     | 1       | 0         | 16.83                       | 16.89                              | 17.11                          | 17.17                               | 17.07                        |                        |             |
| 5               | 256QAM     | 1       | 12        | 16.86                       | 17.02                              | 17.01                          | 17.12                               | 17.16                        |                        |             |
| 5               | 256QAM     | 1       | 24        | 16.91                       | 16.89                              | 16.89                          | 17.00                               | 17.01                        |                        |             |
| 5               | 256QAM     | 12      | 0         | 16.85</                     |                                    |                                |                                     |                              |                        |             |

| LTE Band 48     |            |         |           |                             |                                    |                                     |                              |                        |  | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|-------------------------------------|------------------------------|------------------------|--|------------------------|-------------|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. |                        |  |                        |             |  |  |
| Channel         |            |         |           | 55340                       | 55830                              | 56150                               | 56640                        |                        |  |                        |             |  |  |
| Frequency (MHz) |            |         |           | 3560                        | 3609                               | 3641                                | 3690                         |                        |  | 14.8                   | 0           |  |  |
| 20              | QPSK       | 1       | 0         | 14.03                       | 14.10                              | 14.06                               | 14.05                        |                        |  |                        |             |  |  |
| 20              | QPSK       | 1       | 49        | 14.22                       | 14.41                              | 14.23                               | 14.30                        |                        |  | 14.8                   | 0           |  |  |
| 20              | QPSK       | 1       | 99        | 14.06                       | 14.14                              | 14.00                               | 14.04                        |                        |  |                        |             |  |  |
| 20              | QPSK       | 50      | 0         | 14.09                       | 14.23                              | 14.11                               | 14.31                        |                        |  | 14.8                   | 0           |  |  |
| 20              | QPSK       | 50      | 24        | 14.21                       | 14.38                              | 14.28                               | 14.29                        |                        |  |                        |             |  |  |
| 20              | QPSK       | 50      | 50        | 14.07                       | 14.31                              | 14.20                               | 14.22                        |                        |  | 14.8                   | 0           |  |  |
| 20              | QPSK       | 100     | 0         | 14.04                       | 14.30                              | 14.19                               | 14.22                        |                        |  |                        |             |  |  |
| 20              | 16QAM      | 1       | 0         | 14.08                       | 14.40                              | 14.24                               | 14.16                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 16QAM      | 1       | 49        | 14.36                       | 14.38                              | 14.33                               | 14.20                        |                        |  |                        |             |  |  |
| 20              | 16QAM      | 1       | 99        | 14.24                       | 14.34                              | 14.39                               | 14.21                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 16QAM      | 50      | 0         | 14.02                       | 14.20                              | 14.07                               | 14.10                        |                        |  |                        |             |  |  |
| 20              | 16QAM      | 50      | 24        | 14.11                       | 14.25                              | 14.21                               | 14.19                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 16QAM      | 50      | 50        | 14.03                       | 14.16                              | 14.19                               | 14.15                        |                        |  |                        |             |  |  |
| 20              | 16QAM      | 100     | 0         | 14.01                       | 14.19                              | 14.18                               | 14.15                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 64QAM      | 1       | 0         | 14.02                       | 14.11                              | 14.05                               | 14.00                        |                        |  |                        |             |  |  |
| 20              | 64QAM      | 1       | 49        | 14.22                       | 14.31                              | 14.24                               | 14.16                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 64QAM      | 1       | 99        | 14.06                       | 14.02                              | 14.11                               | 14.01                        |                        |  |                        |             |  |  |
| 20              | 64QAM      | 50      | 0         | 14.10                       | 14.36                              | 14.24                               | 14.14                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 64QAM      | 50      | 24        | 14.24                       | 14.34                              | 14.34                               | 14.24                        |                        |  |                        |             |  |  |
| 20              | 64QAM      | 50      | 50        | 14.15                       | 14.27                              | 14.30                               | 14.18                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 64QAM      | 100     | 0         | 14.17                       | 14.36                              | 14.31                               | 14.23                        |                        |  |                        |             |  |  |
| 20              | 256QAM     | 1       | 0         | 13.89                       | 13.98                              | 13.97                               | 14.09                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 256QAM     | 1       | 49        | 13.95                       | 13.99                              | 13.93                               | 14.18                        |                        |  |                        |             |  |  |
| 20              | 256QAM     | 1       | 99        | 13.98                       | 14.01                              | 13.96                               | 14.24                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 256QAM     | 50      | 0         | 14.02                       | 13.86                              | 13.95                               | 14.25                        |                        |  |                        |             |  |  |
| 20              | 256QAM     | 50      | 24        | 13.98                       | 13.88                              | 13.98                               | 14.17                        |                        |  | 14.8                   | 0           |  |  |
| 20              | 256QAM     | 50      | 50        | 13.89                       | 13.91                              | 13.91                               | 14.10                        |                        |  |                        |             |  |  |
| 20              | 256QAM     | 100     | 0         | 13.87                       | 13.97                              | 13.86                               | 14.01                        |                        |  | 14.8                   | 0           |  |  |
| Channel         |            |         |           | 55315                       | 55820                              | 56160                               | 56665                        | Tune-up limit<br>(dBm) |  | MPR<br>(dB)            |             |  |  |
| Frequency (MHz) |            |         |           | 3557.5                      | 3608                               | 3642                                | 3692.5                       |                        |  |                        |             |  |  |
| 15              | QPSK       | 1       | 0         | 14.07                       | 14.09                              | 14.00                               | 14.09                        |                        |  | 14.8                   | 0           |  |  |
| 15              | QPSK       | 1       | 37        | 14.15                       | 14.00                              | 14.02                               | 14.27                        |                        |  |                        |             |  |  |
| 15              | QPSK       | 1       | 74        | 14.07                       | 14.02                              | 14.09                               | 14.16                        |                        |  | 14.8                   | 0           |  |  |
| 15              | QPSK       | 36      | 0         | 14.10                       | 14.13                              | 14.06                               | 14.31                        |                        |  |                        |             |  |  |
| 15              | QPSK       | 36      | 20        | 14.17                       | 14.19                              | 14.06                               | 14.29                        |                        |  | 14.8                   | 0           |  |  |
| 15              | QPSK       | 36      | 39        | 14.12                       | 14.07                              | 14.09                               | 14.27                        |                        |  |                        |             |  |  |
| 15              | QPSK       | 75      | 0         | 14.10                       | 14.10                              | 14.01                               | 14.23                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 16QAM      | 1       | 0         | 14.10                       | 14.26                              | 14.07                               | 14.29                        |                        |  |                        |             |  |  |
| 15              | 16QAM      | 1       | 37        | 14.15                       | 14.29                              | 14.19                               | 14.21                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 16QAM      | 1       | 74        | 14.00                       | 14.10                              | 14.20                               | 14.24                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 16QAM      | 36      | 0         | 13.71                       | 13.94                              | 14.04                               | 14.15                        |                        |  |                        |             |  |  |
| 15              | 16QAM      | 36      | 20        | 13.76                       | 14.02                              | 14.09                               | 14.20                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 16QAM      | 36      | 39        | 13.75                       | 13.93                              | 14.08                               | 14.16                        |                        |  |                        |             |  |  |
| 15              | 16QAM      | 75      | 0         | 13.72                       | 13.87                              | 14.04                               | 14.14                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 64QAM      | 1       | 0         | 13.72                       | 13.96                              | 14.03                               | 14.07                        |                        |  |                        |             |  |  |
| 15              | 64QAM      | 1       | 37        | 13.94                       | 14.01                              | 14.08                               | 14.16                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 64QAM      | 1       | 74        | 13.88                       | 13.91                              | 14.03                               | 14.07                        |                        |  |                        |             |  |  |
| 15              | 64QAM      | 36      | 0         | 13.87                       | 13.79                              | 14.08                               | 14.19                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 64QAM      | 36      | 20        | 13.84                       | 13.89                              | 14.06                               | 14.26                        |                        |  |                        |             |  |  |
| 15              | 64QAM      | 36      | 39        | 13.82                       | 13.80                              | 14.01                               | 14.21                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 64QAM      | 75      | 0         | 13.89                       | 13.85                              | 14.00                               | 14.24                        |                        |  |                        |             |  |  |
| 15              | 256QAM     | 1       | 0         | 13.84                       | 13.88                              | 14.02                               | 14.17                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 256QAM     | 1       | 37        | 14.08                       | 13.99                              | 13.93                               | 14.09                        |                        |  |                        |             |  |  |
| 15              | 256QAM     | 1       | 74        | 13.90                       | 13.97                              | 13.85                               | 14.08                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 256QAM     | 36      | 0         | 13.98                       | 14.08                              | 14.04                               | 13.91                        |                        |  |                        |             |  |  |
| 15              | 256QAM     | 36      | 20        | 13.90                       | 13.94                              | 13.95                               | 14.03                        |                        |  | 14.8                   | 0           |  |  |
| 15              | 256QAM     | 36      | 39        | 13.81                       | 13.90                              | 13.89                               | 13.97                        |                        |  |                        |             |  |  |
| 15              | 256QAM     | 75      | 0         | 13.84                       | 13.92                              | 13.78                               | 14.16                        |                        |  | 14.8                   | 0           |  |  |
| Channel         |            |         |           | 55590                       | 55815                              | 56165                               | 56680                        | Tune-up limit<br>(dBm) |  | MPR<br>(dB)            |             |  |  |
| Frequency (MHz) |            |         |           | 3555                        | 3607.5                             | 3642.5                              | 3695                         |                        |  |                        |             |  |  |
| 10              | QPSK       | 1       | 0         | 13.63                       | 13.69                              | 13.76                               | 14.08                        |                        |  | 14.8                   | 0           |  |  |
| 10              | QPSK       | 1       | 25        | 14.05                       | 14.13                              | 14.04                               | 14.12                        |                        |  |                        |             |  |  |
| 10              | QPSK       | 1       | 49        | 14.02                       | 14.01                              | 14.00                               | 14.09                        |                        |  | 14.8                   | 0           |  |  |
| 10              | QPSK       | 25      | 0         | 13.81                       | 14.02                              | 13.95                               | 14.06                        |                        |  |                        |             |  |  |
| 10              | QPSK       | 25      | 12        | 13.97                       | 14.11                              | 14.00                               | 14.12                        |                        |  | 14.8                   | 0           |  |  |
| 10              | QPSK       | 25      | 25        | 14.00                       | 13.91                              | 13.94                               | 14.10                        |                        |  |                        |             |  |  |
| 10              | QPSK       | 50      | 0         | 14.02                       | 13.87                              | 13.91                               | 14.05                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 16QAM      | 1       | 0         | 14.11                       | 14.04                              | 13.99                               | 14.00                        |                        |  |                        |             |  |  |
| 10              | 16QAM      | 1       | 25        | 14.06                       | 13.95                              | 14.24                               | 14.18                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 16QAM      | 1       | 49        | 13.97                       | 14.00                              | 14.11                               | 14.20                        |                        |  |                        |             |  |  |
| 10              | 16QAM      | 25      | 0         | 13.97                       | 14.01                              | 13.97                               | 14.08                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 16QAM      | 25      | 12        | 14.01                       | 13.98                              | 13.92                               | 14.08                        |                        |  |                        |             |  |  |
| 10              | 16QAM      | 25      | 25        | 13.86                       | 13.87                              | 13.88                               | 14.02                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 16QAM      | 50      | 0         | 13.94                       | 13.90                              | 13.86                               | 14.02                        |                        |  |                        |             |  |  |
| 10              | 64QAM      | 1       | 0         | 13.77                       | 13.81                              | 13.95                               | 14.07                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 64QAM      | 1       | 25        | 14.01                       | 13.92                              | 13.86                               | 14.07                        |                        |  |                        |             |  |  |
| 10              | 64QAM      | 1       | 49        | 13.83                       | 13.90                              | 13.78                               | 14.04                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 64QAM      | 25      | 0         | 13.91                       | 14.01                              | 13.97                               | 14.05                        |                        |  |                        |             |  |  |
| 10              | 64QAM      | 25      | 12        | 13.83                       | 13.87                              | 13.88                               | 14.08                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 64QAM      | 25      | 25        | 13.74                       | 13.83                              | 13.82                               | 14.07                        |                        |  |                        |             |  |  |
| 10              | 64QAM      | 50      | 0         | 13.77                       | 13.85                              | 13.71                               | 14.08                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 256QAM     | 1       | 0         | 13.89                       | 13.98                              | 13.92                               | 13.87                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 256QAM     | 1       | 25        | 13.96                       | 14.05                              | 13.98                               | 14.25                        |                        |  |                        |             |  |  |
| 10              | 256QAM     | 1       | 49        | 13.83                       | 13.89                              | 13.98                               | 13.93                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 256QAM     | 25      | 0         | 13.97                       | 14.10                              | 13.98                               | 13.97                        |                        |  |                        |             |  |  |
| 10              | 256QAM     | 25      | 12        | 13.98                       | 14.08                              | 14.08                               | 13.95                        |                        |  | 14.8                   | 0           |  |  |
| 10              | 256QAM     | 25      | 25        | 14.02                       | 14.01                              | 14.17                               | 14.13                        |                        |  |                        |             |  |  |
| 10              | 256QAM     | 50      | 0         | 13.91                       | 14.10                              | 14.05                               | 13.90                        |                        |  | 14.8                   | 0           |  |  |
| Channel         |            |         |           | 55265                       | 55810                              | 56170                               | 56715                        | Tune-up limit<br>(dBm) |  | MPR<br>(dB)            |             |  |  |
| Frequency (MHz) |            |         |           | 3552.5                      | 3607                               | 3643                                | 3697.5                       |                        |  |                        |             |  |  |
| 5               | QPSK       | 1       | 0         | 13.79                       | 13.76                              | 13.89                               | 14.07                        |                        |  | 14.8                   | 0           |  |  |
| 5               | QPSK       | 1       | 12        | 14.01                       | 13.88                              | 14.07                               | 14.09                        |                        |  |                        |             |  |  |
| 5               | QPSK       | 1       | 24        | 13.97                       | 13.83                              | 13.93                               | 14.09                        |                        |  | 14.8                   | 0           |  |  |
| 5               | QPSK       | 12      | 0         | 14.01                       | 14.06                              | 13.97                               | 14.14                        |                        |  |                        |             |  |  |
| 5               | QPSK       | 12      | 7         | 14.09                       | 13.97                              | 13.85                               | 14.14                        |                        |  | 14.8                   | 0           |  |  |
| 5               | QPSK       | 12      | 13        | 13.99                       | 13.93                              | 13.90                               | 14.12                        |                        |  |                        |             |  |  |
| 5               | QPSK       | 25      | 0         | 13.93                       | 13.85                              | 13.99</                             |                              |                        |  |                        |             |  |  |

Reduced power level 4 for Head-UAT

| LTE Band 38     |            |         |           |                              |                               |                              |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------------|-------------------------------|------------------------------|---------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power Low Middle Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37950                        | 38000                         | 38150                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2590                         | 2595                          | 2610                         |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 14.07                        | 14.02                         | 13.94                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 14.20                        | 14.11                         | 14.16                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 14.35                        | 14.15                         | 14.15                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 14.01                        | 13.99                         | 14.01                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 14.25                        | 13.98                         | 14.19                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 13.99                        | 13.90                         | 13.92                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 13.98                        | 13.90                         | 13.90                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 14.09                        | 14.04                         | 13.94                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 14.06                        | 14.00                         | 14.08                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 14.19                        | 14.14                         | 14.05                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 13.83                        | 13.69                         | 13.70                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 14.06                        | 13.80                         | 13.84                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 13.98                        | 13.83                         | 13.85                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 13.93                        | 13.83                         | 13.73                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 13.66                        | 13.50                         | 13.60                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 13.73                        | 13.52                         | 13.73                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 13.69                        | 13.66                         | 13.74                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 13.44                        | 13.38                         | 13.51                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 13.59                        | 13.45                         | 13.62                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 13.51                        | 13.48                         | 13.56                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 13.57                        | 13.40                         | 13.53                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 0         | 13.52                        | 13.33                         | 13.49                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 49        | 13.56                        | 13.45                         | 13.62                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 99        | 13.64                        | 13.56                         | 13.59                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 0         | 13.31                        | 13.34                         | 13.40                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 24        | 13.49                        | 13.32                         | 13.46                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 50        | 13.46                        | 13.38                         | 13.45                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 100     | 0         | 13.44                        | 13.31                         | 13.48                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37925                        | 38000                         | 38175                        | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2577.5                       | 2595                          | 2612.5                       |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 13.67                        | 13.71                         | 13.82                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 13.64                        | 13.82                         | 13.86                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 13.89                        | 13.86                         | 13.85                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 13.73                        | 13.69                         | 13.83                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 13.85                        | 13.88                         | 13.94                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 13.72                        | 13.81                         | 13.91                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 13.76                        | 13.80                         | 13.88                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 13.89                        | 14.00                         | 14.07                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 14.06                        | 13.99                         | 14.20                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 14.11                        | 14.06                         | 14.22                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 13.55                        | 13.67                         | 13.80                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 13.86                        | 13.89                         | 13.93                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 13.71                        | 13.78                         | 13.88                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 13.76                        | 13.77                         | 13.92                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 13.60                        | 13.44                         | 13.56                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 13.72                        | 13.68                         | 13.72                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 13.78                        | 13.96                         | 13.79                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 13.50                        | 13.85                         | 13.44                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 13.71                        | 13.54                         | 13.59                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 13.59                        | 13.53                         | 13.64                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 13.65                        | 13.49                         | 13.45                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 0         | 13.46                        | 13.27                         | 13.45                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 37        | 13.55                        | 13.61                         | 13.61                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 74        | 13.73                        | 13.46                         | 13.64                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 0         | 13.67                        | 13.66                         | 13.30                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 20        | 13.81                        | 13.41                         | 13.43                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 36      | 39        | 13.54                        | 13.43                         | 13.53                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 75      | 0         | 13.52                        | 13.40                         | 13.40                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37800                        | 38000                         | 38200                        | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2575                         | 2595                          | 2615                         |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 13.52                        | 13.61                         | 13.60                        | 15.1                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 13.56                        | 13.64                         | 13.67                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 13.53                        | 13.67                         | 13.75                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 13.55                        | 13.62                         | 13.64                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 13.65                        | 13.66                         | 13.82                        |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| LTE Band 48 |            |         |           |                             |                             |                                    |                              |         |                 | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |  |  |  |  |
|-------------|------------|---------|-----------|-----------------------------|-----------------------------|------------------------------------|------------------------------|---------|-----------------|------------------------|-------------|--|--|--|--|--|
| BW (MHz)    | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low<br>Ch. / Freq. | Power<br>HighMiddle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Channel | Frequency (MHz) |                        |             |  |  |  |  |  |
|             |            |         |           |                             |                             |                                    |                              |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 55340                       | 55830                       | 56150                              | 56640                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 3600                        | 3609                        | 3641                               | 3690                         |         |                 |                        |             |  |  |  |  |  |
| 20          | QPSK       | 1       | 0         | 14.03                       | 14.10                       | 14.06                              | 14.05                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | QPSK       | 1       | 49        | 14.22                       | 14.41                       | 14.23                              | 14.30                        |         |                 |                        |             |  |  |  |  |  |
| 20          | QPSK       | 1       | 99        | 14.06                       | 14.14                       | 14.00                              | 14.04                        |         |                 |                        |             |  |  |  |  |  |
| 20          | QPSK       | 50      | 0         | 14.09                       | 14.23                       | 14.11                              | 14.31                        |         |                 |                        |             |  |  |  |  |  |
| 20          | QPSK       | 50      | 24        | 14.21                       | 14.39                       | 14.28                              | 14.29                        |         |                 |                        |             |  |  |  |  |  |
| 20          | QPSK       | 50      | 50        | 14.07                       | 14.31                       | 14.20                              | 14.22                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | QPSK       | 100     | 0         | 14.04                       | 14.30                       | 14.19                              | 14.22                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 1       | 0         | 14.08                       | 14.40                       | 14.24                              | 14.16                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 1       | 49        | 14.36                       | 14.38                       | 14.33                              | 14.20                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 1       | 99        | 14.24                       | 14.34                       | 14.39                              | 14.21                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 50      | 0         | 14.02                       | 14.20                       | 14.07                              | 14.10                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 50      | 24        | 14.11                       | 14.25                       | 14.21                              | 14.19                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 50      | 50        | 14.03                       | 14.16                       | 14.19                              | 14.15                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 16QAM      | 100     | 0         | 14.01                       | 14.19                       | 14.18                              | 14.15                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 1       | 0         | 14.02                       | 14.11                       | 14.05                              | 14.00                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 1       | 49        | 14.22                       | 14.31                       | 14.24                              | 14.16                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 1       | 99        | 14.08                       | 14.02                       | 14.11                              | 14.01                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 50      | 0         | 14.10                       | 14.36                       | 14.24                              | 14.14                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 50      | 24        | 14.24                       | 14.34                       | 14.34                              | 14.24                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 50      | 50        | 14.15                       | 14.27                       | 14.30                              | 14.18                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 64QAM      | 100     | 0         | 14.17                       | 14.36                       | 14.31                              | 14.23                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 1       | 0         | 13.89                       | 13.98                       | 13.97                              | 14.09                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 1       | 49        | 13.95                       | 13.99                       | 13.93                              | 14.18                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 1       | 99        | 13.88                       | 14.01                       | 13.96                              | 14.24                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 50      | 0         | 14.02                       | 13.86                       | 13.95                              | 14.25                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 50      | 24        | 13.98                       | 13.88                       | 13.98                              | 14.17                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 50      | 50        | 13.89                       | 13.91                       | 13.91                              | 14.10                        |         |                 |                        |             |  |  |  |  |  |
| 20          | 256QAM     | 100     | 0         | 13.87                       | 13.97                       | 13.86                              | 14.01                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 55315                       | 55920                       | 56160                              | 56665                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 3657.5                      | 3608                        | 3642                               | 3692.5                       |         |                 |                        |             |  |  |  |  |  |
| 15          | QPSK       | 1       | 0         | 14.07                       | 14.09                       | 14.00                              | 14.09                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | QPSK       | 1       | 37        | 14.15                       | 14.00                       | 14.02                              | 14.27                        |         |                 |                        |             |  |  |  |  |  |
| 15          | QPSK       | 1       | 74        | 14.07                       | 14.02                       | 14.09                              | 14.16                        |         |                 |                        |             |  |  |  |  |  |
| 15          | QPSK       | 36      | 0         | 14.10                       | 14.13                       | 14.06                              | 14.31                        |         |                 |                        |             |  |  |  |  |  |
| 15          | QPSK       | 36      | 20        | 14.17                       | 14.19                       | 14.06                              | 14.28                        |         |                 |                        |             |  |  |  |  |  |
| 15          | QPSK       | 36      | 39        | 14.12                       | 14.07                       | 14.09                              | 14.27                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | QPSK       | 75      | 0         | 14.10                       | 14.10                       | 14.01                              | 14.23                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 1       | 0         | 14.10                       | 14.26                       | 14.07                              | 14.29                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 1       | 37        | 14.15                       | 14.29                       | 14.19                              | 14.21                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 1       | 74        | 14.00                       | 14.10                       | 14.20                              | 14.24                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 36      | 0         | 13.71                       | 13.94                       | 14.04                              | 14.15                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 36      | 20        | 13.76                       | 14.02                       | 14.09                              | 14.20                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 36      | 39        | 13.75                       | 13.93                       | 14.08                              | 14.16                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 16QAM      | 75      | 0         | 13.72                       | 13.87                       | 14.04                              | 14.14                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 1       | 0         | 13.72                       | 13.96                       | 14.03                              | 14.07                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 1       | 37        | 13.94                       | 14.01                       | 14.08                              | 14.16                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 1       | 74        | 13.88                       | 13.91                       | 14.03                              | 14.07                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 36      | 0         | 13.87                       | 13.79                       | 14.08                              | 14.19                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 36      | 20        | 13.84                       | 13.89                       | 14.06                              | 14.26                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 36      | 39        | 13.82                       | 13.80                       | 14.01                              | 14.21                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 64QAM      | 75      | 0         | 13.89                       | 13.85                       | 14.00                              | 14.24                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 1       | 0         | 13.84                       | 13.88                       | 14.02                              | 14.17                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 1       | 37        | 14.08                       | 13.99                       | 13.93                              | 14.09                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 1       | 74        | 13.90                       | 13.97                       | 13.85                              | 14.06                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 35      | 0         | 13.98                       | 14.06                       | 14.04                              | 13.91                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 36      | 20        | 13.90                       | 13.94                       | 13.95                              | 14.03                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 36      | 39        | 13.81                       | 13.90                       | 13.88                              | 13.97                        |         |                 |                        |             |  |  |  |  |  |
| 15          | 256QAM     | 75      | 0         | 13.84                       | 13.92                       | 13.78                              | 14.16                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 55920                       | 55915                       | 56165                              | 56690                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 3655                        | 3607.5                      | 3642.5                             | 3695                         |         |                 |                        |             |  |  |  |  |  |
| 10          | QPSK       | 1       | 0         | 13.63                       | 13.69                       | 13.76                              | 14.08                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | QPSK       | 1       | 25        | 14.05                       | 14.13                       | 14.04                              | 14.12                        |         |                 |                        |             |  |  |  |  |  |
| 10          | QPSK       | 1       | 49        | 14.02                       | 14.01                       | 14.00                              | 14.09                        |         |                 |                        |             |  |  |  |  |  |
| 10          | QPSK       | 25      | 0         | 13.81                       | 14.02                       | 13.95                              | 14.06                        |         |                 |                        |             |  |  |  |  |  |
| 10          | QPSK       | 25      | 12        | 13.97                       | 14.11                       | 14.00                              | 14.12                        |         |                 |                        |             |  |  |  |  |  |
| 10          | QPSK       | 25      | 25        | 14.00                       | 13.91                       | 13.94                              | 14.10                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | QPSK       | 50      | 0         | 14.02                       | 13.87                       | 13.91                              | 14.05                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 1       | 0         | 14.11                       | 14.04                       | 13.99                              | 14.00                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 1       | 25        | 14.06                       | 13.95                       | 14.24                              | 14.18                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 1       | 49        | 13.97                       | 14.00                       | 14.11                              | 14.20                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 25      | 0         | 13.97                       | 14.01                       | 13.97                              | 14.08                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 25      | 12        | 14.01                       | 13.98                       | 13.92                              | 14.08                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 25      | 25        | 13.86                       | 13.87                       | 13.88                              | 14.02                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 16QAM      | 50      | 0         | 13.94                       | 13.90                       | 13.86                              | 14.02                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 1       | 0         | 13.77                       | 13.81                       | 13.95                              | 14.07                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 1       | 25        | 14.01                       | 13.92                       | 13.86                              | 14.07                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 1       | 49        | 13.83                       | 13.90                       | 13.78                              | 14.04                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 25      | 0         | 13.91                       | 14.01                       | 13.97                              | 14.05                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 25      | 12        | 13.83                       | 13.87                       | 13.88                              | 14.08                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 25      | 25        | 13.74                       | 13.83                       | 13.82                              | 14.07                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 64QAM      | 50      | 0         | 13.77                       | 13.85                       | 13.71                              | 14.08                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 1       | 0         | 13.89                       | 13.98                       | 13.92                              | 13.87                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 1       | 25        | 13.96                       | 14.05                       | 13.98                              | 14.25                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 1       | 49        | 13.93                       | 13.89                       | 13.96                              | 13.93                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 25      | 0         | 13.97                       | 14.10                       | 13.98                              | 13.97                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 25      | 12        | 13.98                       | 14.08                       | 14.08                              | 13.95                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 25      | 25        | 14.02                       | 14.01                       | 14.17                              | 14.13                        |         |                 |                        |             |  |  |  |  |  |
| 10          | 256QAM     | 50      | 0         | 13.91                       | 14.10                       | 14.05                              | 13.90                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 55955                       | 55910                       | 56170                              | 56715                        |         |                 |                        |             |  |  |  |  |  |
|             |            |         |           | 3652.5                      | 3607                        | 3643                               | 3697.5                       |         |                 |                        |             |  |  |  |  |  |
| 5           | QPSK       | 1       | 0         | 13.79                       | 13.76                       | 13.89                              | 14.07                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 5           | QPSK       | 1       | 12        | 14.01                       | 13.88                       | 14.07                              | 14.09                        |         |                 |                        |             |  |  |  |  |  |
| 5           | QPSK       | 1       | 24        | 13.97                       | 13.83                       | 13.93                              | 14.09                        |         |                 |                        |             |  |  |  |  |  |
| 5           | QPSK       | 12      | 7         | 14.09                       | 13.97                       | 13.85                              | 14.14                        |         |                 |                        |             |  |  |  |  |  |
| 5           | QPSK       | 12      | 13        | 13.99                       | 13.93                       | 13.90                              | 14.12                        |         |                 |                        |             |  |  |  |  |  |
| 5           | QPSK       | 25      | 0         | 13.93                       | 13.85                       | 13.99                              | 14.06                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 1       | 0         | 13.91                       | 13.87                       | 13.93                              | 14.13                        |         |                 |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 1       | 12        | 14.10                       | 14.01                       | 14.04                              | 14.23                        |         |                 |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 1       | 24        | 14.06                       | 13.94                       | 14.07                              | 14.27                        |         |                 |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 12      | 0         | 14.03                       | 13.93                       | 13.96                              | 14.04                        |         |                 |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 12      | 7         | 14.01                       | 13.90                       | 13.87                              | 14.05                        | 14.8    | 0               |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 12      | 13        | 13.98                       | 13.94                       | 13.82                              | 14.01                        |         |                 |                        |             |  |  |  |  |  |
| 5           | 16QAM      | 25</    |           |                             |                             |                                    |                              |         |                 |                        |             |  |  |  |  |  |

| Reduced power for Hotspot on-UAT |                           |       |        |                     |                           |       |        |                     |
|----------------------------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| GSM850                           |                           |       |        |                     |                           |       |        |                     |
| TX Channel                       | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|                                  | 128                       | 189   | 251    |                     | 128                       | 189   | 251    |                     |
| Frequency (MHz)                  | 824.2                     | 835.4 | 846.6  |                     | 824.2                     | 835.4 | 846.6  |                     |
| GSM 1 Tx slot                    | 28.17                     | 28.20 | 28.18  | 28.80               | 19.17                     | 19.20 | 19.18  | 19.80               |
| GPRS 1 Tx slot                   | 28.05                     | 28.17 | 28.15  | 28.80               | 19.05                     | 19.17 | 19.15  | 19.80               |
| GPRS 2 Tx slots                  | 26.46                     | 26.65 | 26.58  | 27.30               | 20.46                     | 20.65 | 20.58  | 21.30               |
| GPRS 3 Tx slots                  | 24.87                     | 25.04 | 25.03  | 25.80               | 20.61                     | 20.78 | 20.77  | 21.54               |
| GPRS 4 Tx slots                  | 23.47                     | 23.74 | 23.55  | 24.50               | 20.47                     | 20.74 | 20.55  | 21.50               |
| EDGE 1 Tx slot                   | 22.10                     | 22.17 | 22.15  | 22.80               | 13.10                     | 13.17 | 13.15  | 13.80               |
| EDGE 2 Tx slots                  | 20.46                     | 20.57 | 20.53  | 20.80               | 14.46                     | 14.57 | 14.53  | 14.80               |
| EDGE 3 Tx slots                  | 19.32                     | 19.56 | 19.43  | 19.80               | 15.06                     | 15.30 | 15.17  | 15.54               |
| EDGE 4 Tx slots                  | 18.58                     | 18.82 | 18.69  | 19.20               | 15.58                     | 15.82 | 15.69  | 16.20               |
| GSM1900                          |                           |       |        |                     |                           |       |        |                     |
| TX Channel                       | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|                                  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)                  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot                    | 23.22                     | 23.08 | 23.22  | 24.30               | 14.22                     | 14.08 | 14.22  | 15.30               |
| GPRS 1 Tx slot                   | 23.02                     | 23.11 | 23.13  | 24.30               | 14.02                     | 14.11 | 14.13  | 15.30               |
| GPRS 2 Tx slots                  | 20.36                     | 20.67 | 20.47  | 21.80               | 14.36                     | 14.67 | 14.47  | 15.80               |
| GPRS 3 Tx slots                  | 19.36                     | 19.56 | 19.34  | 20.50               | 15.10                     | 15.30 | 15.08  | 16.24               |
| GPRS 4 Tx slots                  | 17.75                     | 19.06 | 17.89  | 19.00               | 14.75                     | 15.06 | 14.89  | 16.00               |
| EDGE 1 Tx slot                   | 18.87                     | 19.15 | 18.90  | 19.80               | 9.87                      | 10.15 | 9.90   | 10.80               |
| EDGE 2 Tx slots                  | 17.06                     | 16.97 | 17.30  | 18.70               | 11.06                     | 10.97 | 11.30  | 12.70               |
| EDGE 3 Tx slots                  | 15.96                     | 16.36 | 16.21  | 17.60               | 11.70                     | 12.10 | 11.95  | 13.34               |
| EDGE 4 Tx slots                  | 14.77                     | 14.99 | 15.01  | 16.60               | 11.77                     | 11.99 | 12.01  | 13.60               |

| Band            |                         | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|---------------------|
| TX Channel      |                         | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4182    | 4233  |                     |
| Rx Channel      |                         | 9862     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4407    | 4468  |                     |
| Frequency (MHz) |                         | 1852.4   | 1860  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 836.4   | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 13.38    | 13.59 | 13.48  | 14.80               | 14.80    | 14.90  | 14.92  | 16.30               | 17.27   | 17.22 | 17.80               |
| 3GPP Rel 99     | RM-C 12.2Kbps           | 13.40    | 13.81 | 13.51  | 14.80               | 14.82    | 14.91  | 14.95  | 16.30               | 17.28   | 17.24 | 17.80               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 12.70    | 12.78 | 12.77  | 13.80               | 13.79    | 13.97  | 13.94  | 15.30               | 16.31   | 16.28 | 16.80               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 12.73    | 12.80 | 12.76  | 13.80               | 13.78    | 13.93  | 13.95  | 15.30               | 16.32   | 16.22 | 16.80               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 12.18    | 12.29 | 12.29  | 13.30               | 13.33    | 13.44  | 13.41  | 14.80               | 15.82   | 15.77 | 16.30               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 12.17    | 12.27 | 12.27  | 13.30               | 13.31    | 13.41  | 13.44  | 14.80               | 15.78   | 15.77 | 16.30               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 12.69    | 12.72 | 12.70  | 13.80               | 13.80    | 13.84  | 13.91  | 15.30               | 16.29   | 16.26 | 16.80               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 12.65    | 12.70 | 12.67  | 13.80               | 13.76    | 13.81  | 13.88  | 15.30               | 16.24   | 16.22 | 16.80               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 12.15    | 12.18 | 12.12  | 13.30               | 13.35    | 13.40  | 13.43  | 14.80               | 15.83   | 15.77 | 16.30               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 12.12    | 12.17 | 12.13  | 13.30               | 13.32    | 13.37  | 13.40  | 14.80               | 15.80   | 15.75 | 16.30               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 12.67    | 12.79 | 12.80  | 13.80               | 13.81    | 13.96  | 13.93  | 15.30               | 16.13   | 16.09 | 16.80               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 10.71    | 10.79 | 10.80  | 11.80               | 11.81    | 11.97  | 11.98  | 13.30               | 14.15   | 14.05 | 14.80               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 11.69    | 11.80 | 11.82  | 12.80               | 12.86    | 12.95  | 12.97  | 14.30               | 15.18   | 15.16 | 15.80               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 10.71    | 10.80 | 10.78  | 11.80               | 11.83    | 11.95  | 11.91  | 13.30               | 14.10   | 14.14 | 14.80               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 12.67    | 12.77 | 12.87  | 13.80               | 13.52    | 13.92  | 13.92  | 15.30               | 15.80   | 15.94 | 16.80               |
| 3GPP Rel 7      | HSPA+ (10QAM) Subtest-1 | 10.84    | 10.91 | 10.86  | 11.80               | 11.87    | 12.14  | 12.03  | 13.30               | 14.29   | 14.34 | 14.80               |

| Band             |  | CDMA BC0 |        |        | Tune-up Limit (dBm) | CDMA BC1 |       |         | Tune-up Limit (dBm) | CDMA BC10 |       | Tune-up Limit (dBm) |
|------------------|--|----------|--------|--------|---------------------|----------|-------|---------|---------------------|-----------|-------|---------------------|
| TX Channel       |  | 1013     | 394    | 777    |                     | 25       | 600   | 1175    |                     | 580       | 694   |                     |
| Frequency (MHz)  |  | 824.7    | 836.52 | 848.31 |                     | 1851.25  | 1880  | 1908.75 |                     | 820.5     | 823.1 |                     |
| RC1 SOSS         |  | 18.53    | 18.55  | 18.50  | 19.30               | 14.31    | 14.32 | 14.42   | 15.80               | 17.79     | 17.75 | 18.80               |
| RC3 SOSS         |  | 18.52    | 18.54  | 18.49  | 19.30               | 14.30    | 14.31 | 14.41   | 15.80               | 17.78     | 17.74 | 18.80               |
| RC3 SO32 (#+SCH) |  | 18.49    | 18.52  | 18.48  | 19.30               | 14.28    | 14.30 | 14.30   | 15.80               | 17.78     | 17.74 | 18.80               |
| RC3 SO32 (+5SCH) |  | 18.48    | 18.49  | 18.46  | 19.30               | 14.28    | 14.28 | 14.38   | 15.80               | 17.77     | 17.73 | 18.80               |
| RTAP 153.6Kbps   |  | 18.43    | 18.47  | 18.45  | 19.30               | 14.25    | 14.27 | 14.36   | 15.80               | 17.75     | 17.73 | 18.80               |
| RETAP 45968Hz    |  | 18.41    | 18.46  | 18.43  | 19.30               | 14.23    | 14.27 | 14.35   | 15.80               | 17.74     | 17.72 | 18.80               |













| LTE Band 48     |            |         |           |                             |                                    |                                     |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|-------------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 55340                       | 55830                              | 56150                               | 56640                        |                        |             |
| Frequency (MHz) |            |         |           | 3560                        | 3609                               | 3641                                | 3690                         |                        |             |
| 20              | QPSK       | 1       | 0         | 16.56                       | 16.73                              | 16.59                               | 16.68                        | 17.3                   | 0           |
| 20              | QPSK       | 1       | 49        | 16.75                       | 16.97                              | 16.86                               | 16.93                        |                        |             |
| 20              | QPSK       | 1       | 99        | 16.59                       | 16.77                              | 16.63                               | 16.67                        |                        |             |
| 20              | QPSK       | 50      | 0         | 16.62                       | 16.86                              | 16.74                               | 16.91                        |                        |             |
| 20              | QPSK       | 50      | 24        | 16.75                       | 16.90                              | 16.91                               | 16.92                        | 17.3                   | 0           |
| 20              | QPSK       | 50      | 50        | 16.70                       | 16.90                              | 16.83                               | 16.85                        |                        |             |
| 20              | QPSK       | 100     | 0         | 16.67                       | 16.90                              | 16.82                               | 16.85                        |                        |             |
| 20              | 16QAM      | 1       | 0         | 16.71                       | 16.83                              | 16.87                               | 16.79                        |                        |             |
| 20              | 16QAM      | 1       | 49        | 16.89                       | 16.91                              | 16.86                               | 16.81                        | 17.3                   | 0           |
| 20              | 16QAM      | 1       | 99        | 16.87                       | 16.87                              | 16.82                               | 16.78                        |                        |             |
| 20              | 16QAM      | 50      | 0         | 16.65                       | 16.83                              | 16.70                               | 16.57                        |                        |             |
| 20              | 16QAM      | 50      | 24        | 16.74                       | 16.88                              | 16.84                               | 16.66                        |                        |             |
| 20              | 16QAM      | 50      | 50        | 16.66                       | 16.79                              | 16.82                               | 16.62                        | 17.3                   | 0           |
| 20              | 16QAM      | 100     | 0         | 16.64                       | 16.82                              | 16.81                               | 16.62                        |                        |             |
| 20              | 64QAM      | 1       | 0         | 16.45                       | 16.74                              | 16.48                               | 16.43                        |                        |             |
| 20              | 64QAM      | 1       | 49        | 16.85                       | 16.90                              | 16.87                               | 16.79                        |                        |             |
| 20              | 64QAM      | 1       | 99        | 16.59                       | 16.85                              | 16.74                               | 16.54                        | 17.3                   | 0           |
| 20              | 64QAM      | 50      | 0         | 16.73                       | 16.89                              | 16.87                               | 16.77                        |                        |             |
| 20              | 64QAM      | 50      | 24        | 16.87                       | 16.87                              | 16.87                               | 16.67                        |                        |             |
| 20              | 64QAM      | 50      | 50        | 16.78                       | 16.90                              | 16.93                               | 16.81                        |                        |             |
| 20              | 64QAM      | 100     | 0         | 16.80                       | 16.89                              | 16.94                               | 16.86                        | 17.3                   | 0           |
| 20              | 256QAM     | 1       | 0         | 15.53                       | 15.84                              | 15.58                               | 15.54                        |                        |             |
| 20              | 256QAM     | 1       | 49        | 15.93                       | 15.98                              | 15.91                               | 15.88                        |                        |             |
| 20              | 256QAM     | 1       | 99        | 15.74                       | 15.80                              | 15.89                               | 15.99                        |                        |             |
| 20              | 256QAM     | 50      | 0         | 15.82                       | 15.99                              | 15.87                               | 15.70                        | 17.3                   | 0           |
| 20              | 256QAM     | 50      | 24        | 15.82                       | 16.00                              | 16.00                               | 15.62                        |                        |             |
| 20              | 256QAM     | 50      | 50        | 15.70                       | 16.01                              | 15.94                               | 15.55                        |                        |             |
| 20              | 256QAM     | 100     | 0         | 15.60                       | 15.79                              | 15.74                               | 15.46                        |                        |             |
| Channel         |            |         |           | 55315                       | 55820                              | 56180                               | 56665                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.5                      | 3606                               | 3642                                | 3692.5                       |                        |             |
| 15              | QPSK       | 1       | 0         | 16.50                       | 16.42                              | 16.33                               | 16.40                        | 17.3                   | 0           |
| 15              | QPSK       | 1       | 37        | 16.78                       | 16.63                              | 16.55                               | 16.58                        |                        |             |
| 15              | QPSK       | 1       | 74        | 16.70                       | 16.59                              | 16.52                               | 16.47                        |                        |             |
| 15              | QPSK       | 36      | 0         | 16.73                       | 16.76                              | 16.49                               | 16.62                        |                        |             |
| 15              | QPSK       | 36      | 20        | 16.80                       | 16.82                              | 16.57                               | 16.59                        | 17.3                   | 0           |
| 15              | QPSK       | 36      | 39        | 16.75                       | 16.70                              | 16.58                               | 16.74                        |                        |             |
| 15              | QPSK       | 75      | 0         | 16.73                       | 16.73                              | 16.54                               | 16.70                        |                        |             |
| 15              | 16QAM      | 1       | 0         | 16.55                       | 16.89                              | 16.60                               | 16.86                        |                        |             |
| 15              | 16QAM      | 1       | 37        | 16.78                       | 16.92                              | 16.82                               | 16.58                        | 17.3                   | 0           |
| 15              | 16QAM      | 1       | 74        | 16.63                       | 16.73                              | 16.83                               | 16.91                        |                        |             |
| 15              | 16QAM      | 36      | 0         | 16.34                       | 16.57                              | 16.47                               | 16.62                        |                        |             |
| 15              | 16QAM      | 36      | 20        | 16.39                       | 16.65                              | 16.52                               | 16.67                        |                        |             |
| 15              | 16QAM      | 36      | 39        | 16.38                       | 16.56                              | 16.51                               | 16.63                        | 17.3                   | 0           |
| 15              | 16QAM      | 75      | 0         | 16.35                       | 16.50                              | 16.47                               | 16.61                        |                        |             |
| 15              | 64QAM      | 1       | 0         | 16.35                       | 16.61                              | 16.46                               | 16.60                        |                        |             |
| 15              | 64QAM      | 1       | 37        | 16.57                       | 16.64                              | 16.61                               | 16.79                        |                        |             |
| 15              | 64QAM      | 1       | 74        | 16.51                       | 16.54                              | 16.56                               | 16.70                        | 17.3                   | 0           |
| 15              | 64QAM      | 36      | 0         | 16.30                       | 16.42                              | 16.41                               | 16.62                        |                        |             |
| 15              | 64QAM      | 36      | 20        | 16.37                       | 16.52                              | 16.49                               | 16.69                        |                        |             |
| 15              | 64QAM      | 36      | 39        | 16.35                       | 16.43                              | 16.44                               | 16.64                        |                        |             |
| 15              | 64QAM      | 75      | 0         | 16.32                       | 16.48                              | 16.43                               | 16.67                        | 17.3                   | 0           |
| 15              | 256QAM     | 1       | 0         | 15.43                       | 15.71                              | 15.56                               | 15.71                        |                        |             |
| 15              | 256QAM     | 1       | 37        | 15.65                       | 15.68                              | 15.65                               | 15.88                        |                        |             |
| 15              | 256QAM     | 1       | 74        | 15.86                       | 15.89                              | 15.71                               | 15.85                        | 17.3                   | 0           |
| 15              | 256QAM     | 36      | 0         | 15.33                       | 15.51                              | 15.50                               | 15.45                        |                        |             |
| 15              | 256QAM     | 36      | 20        | 15.30                       | 15.33                              | 15.50                               | 15.57                        |                        |             |
| 15              | 256QAM     | 36      | 39        | 15.31                       | 15.58                              | 15.99                               | 15.51                        |                        |             |
| 15              | 256QAM     | 75      | 0         | 15.51                       | 15.32                              | 15.52                               | 15.70                        |                        |             |
| Channel         |            |         |           | 55290                       | 55815                              | 56165                               | 56660                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3607.5                             | 3642.5                              | 3695                         |                        |             |
| 10              | QPSK       | 1       | 0         | 16.26                       | 16.32                              | 16.39                               | 16.41                        | 17.3                   | 0           |
| 10              | QPSK       | 1       | 25        | 16.68                       | 16.76                              | 16.67                               | 16.75                        |                        |             |
| 10              | QPSK       | 1       | 49        | 16.65                       | 16.64                              | 16.63                               | 16.62                        |                        |             |
| 10              | QPSK       | 25      | 0         | 16.44                       | 16.65                              | 16.58                               | 16.68                        |                        |             |
| 10              | QPSK       | 25      | 12        | 16.60                       | 16.74                              | 16.63                               | 16.75                        | 17.3                   | 0           |
| 10              | QPSK       | 25      | 25        | 16.63                       | 16.54                              | 16.57                               | 16.73                        |                        |             |
| 10              | QPSK       | 50      | 0         | 16.65                       | 16.50                              | 16.54                               | 16.68                        |                        |             |
| 10              | 16QAM      | 1       | 0         | 16.74                       | 16.67                              | 16.62                               | 16.63                        |                        |             |
| 10              | 16QAM      | 1       | 25        | 16.69                       | 16.58                              | 16.87                               | 16.85                        | 17.3                   | 0           |
| 10              | 16QAM      | 1       | 49        | 16.60                       | 16.63                              | 16.74                               | 16.67                        |                        |             |
| 10              | 16QAM      | 25      | 0         | 16.60                       | 16.64                              | 16.60                               | 16.51                        |                        |             |
| 10              | 16QAM      | 25      | 12        | 16.64                       | 16.61                              | 16.55                               | 16.71                        |                        |             |
| 10              | 16QAM      | 25      | 25        | 16.49                       | 16.50                              | 16.51                               | 16.65                        | 17.3                   | 0           |
| 10              | 16QAM      | 50      | 0         | 16.57                       | 16.53                              | 16.49                               | 16.55                        |                        |             |
| 10              | 64QAM      | 1       | 0         | 16.40                       | 16.44                              | 16.58                               | 16.30                        |                        |             |
| 10              | 64QAM      | 1       | 25        | 16.64                       | 16.55                              | 16.49                               | 16.70                        |                        |             |
| 10              | 64QAM      | 1       | 49        | 16.46                       | 16.53                              | 16.41                               | 16.57                        | 17.3                   | 0           |
| 10              | 64QAM      | 25      | 0         | 16.54                       | 16.64                              | 16.60                               | 16.58                        |                        |             |
| 10              | 64QAM      | 25      | 12        | 16.46                       | 16.50                              | 16.51                               | 16.71                        |                        |             |
| 10              | 64QAM      | 25      | 25        | 16.37                       | 16.46                              | 16.45                               | 16.70                        |                        |             |
| 10              | 64QAM      | 50      | 0         | 16.40                       | 16.48                              | 16.34                               | 16.61                        | 17.3                   | 0           |
| 10              | 256QAM     | 1       | 0         | 15.48                       | 15.54                              | 15.68                               | 15.41                        |                        |             |
| 10              | 256QAM     | 1       | 25        | 15.72                       | 15.59                              | 15.53                               | 15.79                        |                        |             |
| 10              | 256QAM     | 1       | 49        | 15.61                       | 15.88                              | 15.56                               | 15.72                        |                        |             |
| 10              | 256QAM     | 25      | 0         | 15.52                       | 15.48                              | 15.44                               | 15.51                        | 17.3                   | 0           |
| 10              | 256QAM     | 25      | 12        | 15.54                       | 15.51                              | 15.52                               | 15.49                        |                        |             |
| 10              | 256QAM     | 25      | 25        | 15.33                       | 15.61                              | 15.60                               | 15.67                        |                        |             |
| 10              | 256QAM     | 50      | 0         | 15.34                       | 15.37                              | 15.48                               | 15.44                        |                        |             |
| Channel         |            |         |           | 55265                       | 55810                              | 56170                               | 56715                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3552.5                      | 3607                               | 3643                                | 3697.5                       |                        |             |
| 5               | QPSK       | 1       | 0         | 16.42                       | 16.39                              | 16.52                               | 16.60                        | 17.3                   | 0           |
| 5               | QPSK       | 1       | 12        | 16.64                       | 16.51                              | 16.70                               | 16.72                        |                        |             |
| 5               | QPSK       | 1       | 24        | 16.60                       | 16.46                              | 16.56                               | 16.72                        |                        |             |
| 5               | QPSK       | 12      | 0         | 16.64                       | 16.69                              | 16.60                               | 16.77                        |                        |             |
| 5               | QPSK       | 12      | 7         | 16.72                       | 16.60                              | 16.48                               | 16.77                        | 17.3                   | 0           |
| 5               | QPSK       | 12      | 13        | 16.62                       | 16.56                              | 16.53                               | 16.75                        |                        |             |
| 5               | QPSK       | 25      | 0         | 16.56                       | 16.48                              | 16.62                               | 16.69                        |                        |             |
| 5               | 16QAM      | 1       | 0         | 16.54                       | 16.50                              | 16.56                               | 16.76                        |                        |             |
| 5               | 16QAM      | 1       | 12        | 16.73                       | 16.64                              | 16.67                               | 16.86                        | 17.3                   | 0           |
| 5               | 16QAM      | 1       | 24        | 16.69                       | 16.57                              | 16.70                               | 16.74                        |                        |             |
| 5               | 16QAM      | 12      | 0         | 16.66                       | 16.56                              | 16.59                               | 16.57                        |                        |             |
| 5               | 16QAM      | 12      | 7         | 16.64                       | 16.53                              | 16.50                               | 16.68                        |                        |             |
| 5               | 16QAM      | 12      | 13        | 16.61                       | 16.57                              | 16.45                               | 16.64                        | 17.3                   | 0           |
| 5               | 16QAM      | 25      | 0         | 16.62                       | 16.45                              | 16.42                               | 16.57                        |                        |             |
| 5               | 64QAM      | 1       | 0         | 16.40                       | 16.49                              | 16.48                               | 16.44                        |                        |             |
| 5               | 64QAM      | 1       | 12        | 16.46                       | 16.50                              | 16.44                               | 16.59                        |                        |             |
| 5               | 64QAM      | 1       | 24        | 16.49                       | 16.52                              | 16.47                               | 16.62                        | 17.3                   | 0           |
| 5               | 64QAM      | 12      | 0         | 16.53                       | 16.37                              | 16.46                               | 16.50                        |                        |             |
| 5               | 64QAM      | 12      | 7         | 16.49                       | 16.39                              | 16.49                               | 16.60                        |                        |             |
| 5               | 64QAM      | 12      | 13        | 16.40                       | 16.42                              | 16.42                               | 16.61                        |                        |             |
| 5               | 64QAM      | 25      | 0         | 16.38                       | 16.48                              | 16.37                               | 16.66                        | 17.3                   | 0           |
| 5               | 256QAM     | 1       | 0         | 15.48                       | 15.59                              | 15.58                               | 15.55                        |                        |             |
| 5               | 256QAM     | 1       | 12        | 15.54                       | 15.54                              | 15.48                               | 15.68                        |                        |             |
| 5               | 256QAM     | 1       | 24        | 15.64                       | 15.67                              | 15.62                               | 15.77                        |                        |             |
| 5               | 256QAM     | 12      | 0         | 15.51                       | 15.46                              | 15.30                               | 15.43                        | 17.3                   | 0           |
| 5               | 256QAM     | 12      | 7         | 15.37                       | 15.40                              | 15.50                               | 15.58                        |                        |             |
| 5               | 256QAM     | 12      | 13        | 15.41                       | 15.57                              | 15.57                               | 15.58                        |                        |             |
| 5               | 256QAM     | 25      | 0         | 15.52                       | 15.37                              | 15.51                               | 15.49                        |                        |             |



| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                         | 5262     | 5400  | 5538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 23.56    | 23.65 | 23.68  | 24.80                     | 23.61    | 23.69  | 23.65  | 24.80                     | 24.05   | 24.08 | 24.04 | 24.80                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 23.60    | 23.69 | 23.66  | 24.80                     | 23.64    | 23.73  | 23.72  | 24.80                     | 24.09   | 24.06 | 24.05 | 24.80                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 22.57    | 22.65 | 22.67  | 23.80                     | 22.56    | 22.72  | 22.72  | 23.80                     | 23.08   | 23.06 | 23.03 | 23.80                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 22.56    | 22.37 | 22.65  | 23.80                     | 22.59    | 22.70  | 22.72  | 23.80                     | 23.08   | 23.06 | 23.06 | 23.80                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 22.08    | 22.14 | 22.18  | 23.30                     | 22.06    | 22.18  | 22.19  | 23.30                     | 22.57   | 22.61 | 22.54 | 23.30                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 22.11    | 22.18 | 21.82  | 23.30                     | 22.08    | 22.22  | 22.19  | 23.30                     | 22.57   | 22.56 | 22.54 | 23.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 22.55    | 22.63 | 22.61  | 23.80                     | 22.54    | 22.68  | 22.62  | 23.80                     | 23.05   | 23.03 | 23.02 | 23.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 22.51    | 22.59 | 22.54  | 23.80                     | 22.52    | 22.64  | 22.60  | 23.80                     | 23.02   | 23.00 | 22.99 | 23.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 22.01    | 22.14 | 22.06  | 23.30                     | 22.08    | 22.13  | 22.08  | 23.30                     | 22.54   | 22.48 | 22.51 | 23.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 22.03    | 22.10 | 22.03  | 23.30                     | 22.05    | 22.08  | 22.05  | 23.30                     | 22.51   | 22.47 | 22.48 | 23.30                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 22.60    | 22.69 | 22.73  | 23.80                     | 22.66    | 22.75  | 22.78  | 23.80                     | 23.06   | 23.02 | 22.98 | 23.80                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 20.59    | 20.70 | 20.64  | 21.80                     | 20.63    | 20.72  | 20.76  | 21.80                     | 21.09   | 21.02 | 21.01 | 21.80                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 21.57    | 21.64 | 21.70  | 22.80                     | 21.62    | 21.72  | 21.72  | 22.80                     | 22.07   | 22.02 | 22.00 | 22.80                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 20.60    | 20.65 | 20.71  | 21.80                     | 20.63    | 20.74  | 20.72  | 21.80                     | 21.05   | 21.08 | 21.02 | 21.80                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 22.60    | 22.70 | 22.70  | 23.80                     | 22.60    | 22.70  | 22.70  | 23.80                     | 23.10   | 23.00 | 23.00 | 23.80                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.75    | 20.98 | 21.02  | 21.80                     | 20.70    | 20.83  | 20.85  | 21.80                     | 21.18   | 21.21 | 21.17 | 21.80                     |

| Band              |  | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|-------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel        |  | 1013     | 384    | 777    |                           | 25       | 690   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)   |  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SC95S         |  | 23.79    | 23.63  | 23.79  | 24.80                     | 23.55    | 23.68 | 23.73   | 24.80                     | 23.95     | 24.04 | 23.95 | 24.80                     |
| RC3 SC95S         |  | 23.79    | 23.80  | 23.78  | 24.80                     | 23.46    | 23.67 | 23.71   | 24.80                     | 23.94     | 23.98 | 23.94 | 24.80                     |
| RC3 SC93S (F-RCH) |  | 23.78    | 23.79  | 23.73  | 24.80                     | 23.48    | 23.67 | 23.69   | 24.80                     | 23.94     | 23.98 | 23.94 | 24.80                     |
| RC3 SC93S (F-RCH) |  | 23.68    | 23.69  | 23.63  | 24.80                     | 23.46    | 23.66 | 23.69   | 24.80                     | 23.93     | 23.98 | 23.94 | 24.80                     |
| RTAP 153.6Kbps    |  | 23.67    | 23.69  | 23.59  | 24.80                     | 23.43    | 23.66 | 23.65   | 24.80                     | 23.92     | 23.97 | 23.92 | 24.80                     |
| RETAP 4096Bps     |  | 23.66    | 23.64  | 23.59  | 24.80                     | 23.42    | 23.63 | 23.62   | 24.80                     | 23.90     | 23.93 | 23.90 | 24.80                     |







[illegible]

| Bit (km/s)      | Modulation | Size | RB Offset | Low<br>150000 | Mid<br>150000 | High<br>150000 | Range (km) | MPR<br>(dB) |
|-----------------|------------|------|-----------|---------------|---------------|----------------|------------|-------------|
| Channel         |            |      |           |               |               |                |            |             |
| Frequency (MHz) |            |      |           |               |               |                |            |             |
| 25              | QPSK       | 16   | 0         | 22.16         | 22.16         | 22.16          | 23.8       | 0           |
| 25              | QPSK       | 16   | 63        | 23.13         | 23.13         | 23.27          |            |             |
| 25              | QPSK       | 16   | 126       | 23.27         | 23.27         | 23.27          |            |             |
| 25              | QPSK       | 50   | 0         | 22.08         | 22.17         | 22.15          |            |             |
| 25              | QPSK       | 50   | 24        | 22.18         | 22.28         | 22.28          | 22.8       | 1           |
| 25              | QPSK       | 50   | 48        | 22.28         | 22.38         | 22.38          |            |             |
| 25              | QPSK       | 100  | 0         | 22.12         | 22.22         | 22.18          |            |             |
| 25              | QPSK       | 100  | 0         | 22.22         | 22.38         | 22.37          |            |             |
| 25              | QPSK       | 100  | 0         | 22.38         | 22.42         | 22.38          | 22.8       | 1           |
| 25              | QPSK       | 100  | 0         | 22.04         | 22.24         | 22.22          |            |             |
| 25              | QPSK       | 50   | 0         | 21.08         | 22.07         | 21.16          |            |             |
| 25              | QPSK       | 50   | 24        | 21.18         | 22.17         | 21.21          | 21.8       | 2           |
| 25              | QPSK       | 50   | 48        | 21.27         | 22.26         | 21.30          |            |             |
| 25              | QPSK       | 100  | 0         | 21.12         | 22.12         | 21.18          |            |             |
| 25              | QPSK       | 100  | 0         | 21.22         | 22.22         | 21.28          |            |             |
| 25              | QPSK       | 100  | 0         | 21.38         | 22.38         | 21.38          | 21.8       | 2           |
| 25              | QPSK       | 50   | 0         | 21.18         | 21.18         | 21.28          |            |             |
| 25              | QPSK       | 50   | 24        | 21.28         | 21.28         | 21.38          | 20.8       | 3           |
| 25              | QPSK       | 50   | 48        | 21.38         | 21.38         | 21.48          |            |             |
| 25              | QPSK       | 100  | 0         | 20.03         | 20.08         | 20.13          |            |             |
| 25              | QPSK       | 100  | 0         | 17.65         | 17.74         | 17.82          | 19.3       | 4.5         |
| 25              | QPSK       | 100  | 0         | 17.84         | 17.84         | 17.88          |            |             |
| 25              | QPSK       | 100  | 0         | 17.77         | 17.82         | 17.80          |            |             |
| 25              | QPSK       | 100  | 0         | 17.74         | 17.74         | 17.80          |            |             |
| 25              | QPSK       | 100  | 0         | 17.84         | 17.84         | 17.88          | 19.3       | 4.5         |
| 25              | QPSK       | 50   | 0         | 17.65         | 17.68         | 17.68          |            |             |
| 25              | QPSK       | 50   | 24        | 17.78         | 17.83         | 17.83          |            |             |
| Channel         |            |      |           |               |               |                |            |             |
| Frequency (MHz) |            |      |           |               |               |                |            |             |
| 15              | QPSK       | 16   | 0         | 17.14         | 17.14         | 17.13          | Range (km) | MPR (dB)    |
| 15              | QPSK       | 16   | 63        | 17.14         | 17.14         | 17.14          |            |             |
| 15              | QPSK       | 16   | 126       | 17.13         | 17.13         | 17.13          | 23.8       | 0           |
| 15              | QPSK       | 16   | 189       | 17.13         | 17.13         | 17.13          |            |             |
| 15              | QPSK       | 16   | 252       | 17.13         | 17.13         | 17.13          |            |             |
| 15              | QPSK       | 50   | 0         | 22.07         | 22.16         | 22.16          |            |             |
| 15              | QPSK       | 50   | 24        | 22.16         | 22.26         | 22.26          | 22.8       | 1           |
| 15              | QPSK       | 50   | 48        | 22.26         | 22.36         | 22.36          |            |             |
| 15              | QPSK       | 100  | 0         | 21.08         | 21.28         | 21.18          |            |             |
| 15              | QPSK       | 100  | 0         | 21.18         | 21.28         | 21.18          | 22.8       | 1           |
| 15              | QPSK       | 100  | 0         | 21.28         | 21.28         | 21.18          |            |             |
| 15              | QPSK       | 100  | 0         | 21.38         | 21.38         | 21.18          | 21.8       | 2           |
| 15              | QPSK       | 50   | 0         | 21.08         | 21.12         | 21.17          |            |             |
| 15              | QPSK       | 50   | 24        | 21.12         | 21.12         | 21.17          |            |             |
| 15              | QPSK       | 50   | 48        | 21.12         | 21.12         | 21.17          | 21.8       | 2           |
| 15              | QPSK       | 100  | 0         | 20.03         | 20.08         | 20.03          |            |             |
| 15              | QPSK       | 100  | 0         | 17.72         | 17.86         | 17.78          |            |             |
| 15              | QPSK       | 100  | 0         | 17.89         | 17.87         | 18.23          | 19.3       | 4.5         |
| 15              | QPSK       | 100  | 0         | 17.89         | 17.89         | 18.23          |            |             |
| 15              | QPSK       | 100  | 0         | 17.89         | 17.89         | 18.23          |            |             |
| 15              | QPSK       | 100  | 0         | 17.78         | 17.80         | 17.78          |            |             |
| 15              | QPSK       | 100  | 0         | 17.78         | 17.80         | 17.78          | 19.3       | 4.5         |
| 15              | QPSK       | 50   | 0         | 17.65         | 17.65         | 17.78          |            |             |

Table 974

| Site (MHz)      | Modulation | RF Band | RF Offset | Power<br>Level<br>P <sub>1</sub> (dBm) | Power<br>Level<br>P <sub>2</sub> (dBm) | Power<br>Level<br>P <sub>3</sub> (dBm) | Time-avg limit<br>(dBm) | MPO<br>(dB) |
|-----------------|------------|---------|-----------|----------------------------------------|----------------------------------------|----------------------------------------|-------------------------|-------------|
| Channel         |            |         |           | 131022                                 | 131022                                 | 131022                                 | 23.8                    | 0           |
| Frequency (MHz) |            |         |           | 673                                    | 683                                    | 688                                    |                         |             |
| 20              | QPSK       | 1       | 0         | 22.49                                  | 22.51                                  | 22.44                                  | 23.8                    | 0           |
| 20              | QPSK       | 1       | 44        | 22.43                                  | 22.48                                  | 22.48                                  |                         |             |
| 20              | QPSK       | 1       | 59        | 22.46                                  | 22.57                                  | 22.51                                  |                         |             |
| 20              | QPSK       | 50      | 0         | 21.51                                  | 21.68                                  | 21.55                                  |                         |             |
| 20              | QPSK       | 50      | 24        | 21.62                                  | 21.76                                  | 21.64                                  |                         |             |
| 20              | QPSK       | 50      | 50        | 21.57                                  | 21.51                                  | 21.68                                  | 22.8                    | 1           |
| 20              | QPSK       | 100     | 0         | 21.52                                  | 21.58                                  | 21.41                                  |                         |             |
| 20              | 16QAM      | 1       | 0         | 21.50                                  | 21.46                                  | 21.41                                  |                         |             |
| 20              | 16QAM      | 1       | 44        | 21.31                                  | 21.49                                  | 21.49                                  |                         |             |
| 20              | 16QAM      | 1       | 59        | 21.40                                  | 21.25                                  | 21.27                                  |                         |             |
| 20              | 16QAM      | 50      | 0         | 20.58                                  | 20.55                                  | 20.59                                  | 21.8                    | 2           |
| 20              | 16QAM      | 50      | 24        | 20.65                                  | 20.50                                  | 20.57                                  |                         |             |
| 20              | 16QAM      | 50      | 50        | 20.62                                  | 20.60                                  | 20.54                                  |                         |             |
| 20              | 16QAM      | 100     | 0         | 20.53                                  | 20.52                                  | 20.42                                  |                         |             |
| 20              | 16QAM      | 1       | 0         | 20.64                                  | 20.62                                  | 20.70                                  |                         |             |
| 20              | 16QAM      | 1       | 44        | 20.51                                  | 20.50                                  | 20.61                                  | 21.8                    | 2           |
| 20              | 16QAM      | 1       | 59        | 20.50                                  | 20.47                                  | 20.61                                  |                         |             |
| 20              | 16QAM      | 50      | 0         | 19.48                                  | 19.52                                  | 19.51                                  |                         |             |
| 20              | 16QAM      | 50      | 24        | 19.62                                  | 19.48                                  | 19.57                                  |                         |             |
| 20              | 16QAM      | 50      | 50        | 19.54                                  | 19.59                                  | 19.60                                  |                         |             |
| 20              | 16QAM      | 100     | 0         | 19.55                                  | 19.51                                  | 19.58                                  | 20.8                    | 3           |
| 20              | 16QAM      | 1       | 0         | 17.93                                  | 17.98                                  | 17.93                                  |                         |             |
| 20              | 256QAM     | 1       | 44        | 17.95                                  | 18.23                                  | 18.37                                  |                         |             |
| 20              | 256QAM     | 1       | 59        | 18.14                                  | 18.18                                  | 18.13                                  |                         |             |
| 20              | 256QAM     | 50      | 0         | 17.90                                  | 17.98                                  | 17.97                                  |                         |             |
| 20              | 256QAM     | 50      | 24        | 17.98                                  | 17.97                                  | 18.20                                  | 19.3                    | 4.5         |
| 20              | 256QAM     | 50      | 50        | 17.88                                  | 18.01                                  | 18.25                                  |                         |             |
| 20              | 256QAM     | 100     | 0         | 17.82                                  | 17.88                                  | 17.86                                  |                         |             |
| Channel         |            |         |           | 133197                                 | 133207                                 | 133207                                 | 23.8                    | 0           |
| Frequency (MHz) |            |         |           | 618.5                                  | 618.5                                  | 618.5                                  |                         |             |
| 15              | QPSK       | 1       | 0         | 22.45                                  | 22.50                                  | 22.53                                  | 23.8                    | 0           |
| 15              | QPSK       | 1       | 37        | 22.49                                  | 22.44                                  | 22.50                                  |                         |             |
| 15              | QPSK       | 1       | 74        | 22.43                                  | 22.39                                  | 22.44                                  |                         |             |
| 15              | QPSK       | 36      | 0         | 21.65                                  | 21.68                                  | 21.76                                  |                         |             |
| 15              | QPSK       | 36      | 25        | 21.58                                  | 21.48                                  | 21.61                                  |                         |             |
| 15              | QPSK       | 36      | 39        | 21.60                                  | 21.61                                  | 21.65                                  | 22.8                    | 1           |
| 15              | QPSK       | 75      | 0         | 21.56                                  | 21.55                                  | 21.59                                  |                         |             |
| 15              | 16QAM      | 1       | 0         | 21.43                                  | 21.48                                  | 21.48                                  |                         |             |
| 15              | 16QAM      | 1       | 37        | 21.33                                  | 21.35                                  | 21.44                                  |                         |             |
| 15              | 16QAM      | 1       | 74        | 21.38                                  | 21.38                                  | 21.31                                  |                         |             |
| 15              | 16QAM      | 36      | 0         | 20.56                                  | 20.58                                  | 20.59                                  | 21.8                    | 2           |
| 15              | 16QAM      | 36      | 25        | 20.65                                  | 20.65                                  | 20.66                                  |                         |             |
| 15              | 16QAM      | 36      | 39        | 20.67                                  | 20.60                                  | 20.61                                  |                         |             |
| 15              | 16QAM      | 75      | 0         | 20.54                                  | 20.58                                  | 20.51                                  |                         |             |
| 15              | 16QAM      | 1       | 0         | 20.58                                  | 20.61                                  | 20.65                                  |                         |             |
| 15              | 16QAM      | 1       | 37        | 20.49                                  | 20.57                                  | 20.52                                  | 21.8                    | 2           |
| 15              | 16QAM      | 1       | 74        | 20.54                                  | 20.48                                  | 20.54                                  |                         |             |
| 15              | 16QAM      | 36      | 0         | 19.55                                  | 19.59                                  | 19.59                                  |                         |             |
| 15              | 16QAM      | 36      | 25        | 19.58                                  | 19.69                                  | 19.71                                  |                         |             |
| 15              | 16QAM      | 36      | 39        | 19.55                                  | 19.54                                  | 19.65                                  |                         |             |
| 15              | 16QAM      | 75      | 0         | 19.67                                  | 19.65                                  | 19.67                                  | 20.8                    | 3           |
| 15              | 256QAM     | 1       | 0         | 17.87                                  | 17.97                                  | 17.98                                  |                         |             |
| 15              | 256QAM     | 1       | 37        | 17.93                                  | 18.25                                  | 18.32                                  |                         |             |
| 15              | 256QAM     | 1       | 74        | 18.18                                  | 18.17                                  | 18.06                                  |                         |             |
| 15              | 256QAM     | 36      | 0         | 17.97                                  | 18.06                                  | 18.06                                  |                         |             |
| 15              | 256QAM     | 36      | 25        | 17.93                                  | 18.17                                  | 18.24                                  | 19.3                    | 4.5         |
| 15              | 256QAM     | 36      | 39        | 17.89                                  | 17.88                                  | 18.05                                  |                         |             |
| 15              | 256QAM     | 75      | 0         | 17.84                                  | 18.10                                  | 18.07                                  |                         |             |
| Channel         |            |         |           | 133192                                 | 133202                                 | 133202                                 | 23.8                    | 0           |
| Frequency (MHz) |            |         |           | 618.5                                  | 618.5                                  | 618.5                                  |                         |             |
| 10              | QPSK       | 1       | 0         | 22.53                                  | 22.36                                  | 22.31                                  | 23.8                    | 0           |
| 10              | QPSK       | 1       | 25        | 22.52                                  | 22.31                                  | 22.50                                  |                         |             |
| 10              | QPSK       | 1       | 49        | 22.29                                  | 22.19                                  | 22.30                                  |                         |             |
| 10              | QPSK       | 25      | 0         | 21.39                                  | 21.35                                  | 21.37                                  |                         |             |
| 10              | QPSK       | 25      | 12        | 21.41                                  | 21.41                                  | 21.38                                  |                         |             |
| 10              | QPSK       | 25      | 25        | 21.35                                  | 21.38                                  | 21.38                                  | 22.8                    | 1           |
| 10              | QPSK       | 50      | 0         | 21.40                                  | 21.38                                  | 21.31                                  |                         |             |
| 10              | 16QAM      | 1       | 0         | 21.39                                  | 21.38                                  | 21.31                                  |                         |             |
| 10              | 16QAM      | 1       | 25        | 21.32                                  | 21.30                                  | 21.33                                  |                         |             |
| 10              | 16QAM      | 1       | 49        | 21.38                                  | 21.35                                  | 21.35                                  |                         |             |
| 10              | 16QAM      | 25      | 0         | 20.38                                  | 20.37                                  | 20.40                                  | 21.8                    | 2           |
| 10              | 16QAM      | 25      | 14        | 20.42                                  | 20.37                                  | 20.45                                  |                         |             |
| 10              | 16QAM      | 25      | 25        | 20.52                                  | 20.38                                  | 20.54                                  |                         |             |
| 10              | 16QAM      | 50      | 0         | 20.55                                  | 20.37                                  | 20.45                                  |                         |             |
| 10              | 16QAM      | 1       | 0         | 20.52                                  | 20.45                                  | 20.35                                  |                         |             |
| 10              | 16QAM      | 1       | 25        | 20.28                                  | 20.39                                  | 20.49                                  | 21.8                    | 2           |
| 10              | 16QAM      | 1       | 49        | 20.48                                  | 20.50                                  | 20.53                                  |                         |             |
| 10              | 16QAM      | 25      | 0         | 19.53                                  | 19.51                                  | 19.53                                  |                         |             |
| 10              | 16QAM      | 25      | 12        | 19.59                                  | 19.41                                  | 19.43                                  |                         |             |
| 10              | 16QAM      | 25      | 25        | 19.52                                  | 19.39                                  | 19.24                                  |                         |             |
| 10              | 16QAM      | 50      | 0         | 19.00                                  | 19.28                                  | 19.53                                  | 20.8                    | 3           |
| 10              | 256QAM     | 1       | 0         | 17.81                                  | 17.81                                  | 17.86                                  |                         |             |
| 10              | 256QAM     | 1       | 25        | 17.72                                  | 18.05                                  | 17.99                                  |                         |             |
| 10              | 256QAM     | 1       | 49        | 18.13                                  | 18.11                                  | 18.05                                  |                         |             |
| 10              | 256QAM     | 25      | 0         | 17.75                                  | 17.77                                  | 17.79                                  |                         |             |
| 10              | 256QAM     | 25      | 14        | 17.73                                  | 17.68                                  | 18.05                                  | 19.3                    | 4.5         |
| 10              | 256QAM     | 25      | 25        | 17.68                                  | 17.72                                  | 17.79                                  |                         |             |
| 10              | 256QAM     | 50      | 0         | 17.67                                  | 17.73                                  | 17.72                                  |                         |             |
| Channel         |            |         |           | 133197                                 | 133207                                 | 133207                                 | 23.8                    | 0           |
| Frequency (MHz) |            |         |           | 618.5                                  | 618.5                                  | 618.5                                  |                         |             |
| 5               | QPSK       | 1       | 0         | 22.20                                  | 22.23                                  | 22.17                                  | 23.8                    | 0           |
| 5               | QPSK       | 1       | 14        | 22.31                                  | 22.34                                  | 22.31                                  |                         |             |
| 5               | QPSK       | 1       | 24        | 22.40                                  | 22.38                                  | 22.05                                  |                         |             |
| 5               | QPSK       | 12      | 0         | 21.34                                  | 21.38                                  | 21.42                                  |                         |             |
| 5               | QPSK       | 12      | 7         | 21.45                                  | 21.51                                  | 21.56                                  |                         |             |
| 5               | QPSK       | 12      | 18        | 21.40                                  | 21.48                                  | 21.52                                  | 22.8                    | 1           |
| 5               | QPSK       | 20      | 0         | 21.35                                  | 21.41                                  | 21.46                                  |                         |             |
| 5               | 16QAM      | 1       | 0         | 21.44                                  | 21.45                                  | 21.52                                  |                         |             |
| 5               | 16QAM      | 1       | 12        | 21.81                                  | 21.83                                  | 21.67                                  |                         |             |
| 5               | 16QAM      | 1       | 24        | 21.56                                  | 21.59                                  | 21.58                                  |                         |             |
| 5               | 16QAM      | 12      | 0         | 20.37                                  | 20.41                                  | 20.43                                  | 23.3                    | 0.5         |
| 5               | 16QAM      | 12      | 7         | 20.49                                  | 20.52                                  | 20.43                                  |                         |             |
| 5               | 16QAM      | 12      | 14        | 20.43                                  | 20.48                                  | 20.43                                  |                         |             |
| 5               | 16QAM      | 25      | 0         | 20.43                                  | 20.48                                  | 20.47                                  |                         |             |
| 5               | 16QAM      | 1       | 0         | 20.59                                  | 20.41                                  | 20.40                                  |                         |             |
| 5               | 16QAM      | 1       | 12        | 20.31                                  | 20.37                                  | 20.52                                  | 21.8                    | 2           |
| 5               | 16QAM      | 1       | 24        | 20.43                                  | 20.48                                  | 20.45                                  |                         |             |
| 5               | 16QAM      | 12      | 0         | 19.50                                  | 19.37                                  | 19.34                                  |                         |             |
| 5               | 16QAM      | 12      | 7         | 19.39                                  | 19.40                                  | 19.41                                  |                         |             |
| 5               | 16QAM      | 12      | 18        | 19.40                                  | 19.43                                  | 19.43                                  |                         |             |
| 5               | 16QAM      | 25      | 0         | 19.43                                  | 19.44                                  | 19.43                                  | 20.8                    | 3           |
| 5               | 256QAM     | 1       | 0         | 17.88                                  | 17.77                                  | 17.83                                  |                         |             |
| 5               | 256QAM     | 1       | 12        | 17.77                                  | 18.05                                  | 17.87                                  |                         |             |
| 5               | 256QAM     | 1       | 24        | 18.07                                  | 18.08                                  | 17.97                                  |                         |             |
| 5               | 256QAM     | 12      | 0         | 17.72                                  | 17.83                                  | 17.86                                  |                         |             |
| 5               | 256QAM     | 12      | 7         | 17.73                                  | 17.88                                  | 18.04                                  | 19.3                    | 4.5         |
| 5               | 256QAM     | 12      | 18        | 17.74                                  | 17.82                                  | 17.88                                  |                         |             |
| 5               | 256QAM     | 25      | 0         | 17.70                                  | 17.88                                  | 17.82                                  |                         |             |

| LTE Band 38     |            |         |           |                      |                       |                      |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|----------------------|---------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power Low Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37850                | 38000                 | 38150                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2590                 | 2595                  | 2610                 |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 22.18                | 22.12                 | 22.10                | 23.8                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 22.26                | 22.24                 | 22.17                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 22.33                | 22.26                 | 22.27                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 21.23                | 21.16                 | 21.13                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 21.19                | 21.35                 | 21.30                | 22.8                | 1        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 21.35                | 21.32                 | 21.27                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 21.43                | 21.40                 | 21.35                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 21.58                | 21.50                 | 21.67                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 21.56                | 21.49                 | 21.58                | 22.8                | 1        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 21.75                | 21.58                 | 21.65                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 20.16                | 20.17                 | 20.17                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 20.46                | 20.33                 | 20.43                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 20.34                | 20.40                 | 20.38                | 21.8                | 2        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 20.32                | 20.32                 | 20.36                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 19.95                | 19.95                 | 20.09                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 20.03                | 19.95                 | 20.00                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 20.14                | 19.96                 | 20.12                | 21.8                | 2        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 19.04                | 18.96                 | 19.15                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 19.23                | 19.01                 | 19.35                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 19.13                | 19.19                 | 19.24                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 19.16                | 19.16                 | 19.29                | 20.8                | 3        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 0         | 18.13                | 17.84                 | 17.93                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 49        | 17.95                | 18.07                 | 18.17                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 1       | 99        | 18.14                | 17.71                 | 18.13                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 0         | 17.90                | 18.03                 | 17.97                | 19.3                | 4.5      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 24        | 17.96                | 18.12                 | 18.20                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 50      | 50        | 17.88                | 18.10                 | 18.05                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20              | 256QAM     | 100     | 0         | 17.82                | 17.99                 | 17.95                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37825                | 38000                 | 38175                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2577.5               | 2595                  | 2612.5               |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 22.23                | 22.25                 | 22.27                | 23.8                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 22.21                | 22.29                 | 22.31                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 22.31                | 22.04                 | 22.31                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 35      | 0         | 21.33                | 21.24                 | 21.36                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 35      | 20        | 21.44                | 21.44                 | 21.45                | 22.8                | 1        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 35      | 39        | 21.32                | 21.31                 | 21.40                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 21.34                | 21.33                 | 21.40                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 21.60                | 21.58                 | 21.57                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 21.63                | 21.58                 | 21.58                | 22.8                | 1        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 21.63                | 21.59                 | 21.70                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 35      | 0         | 20.21                | 20.27                 | 20.27                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 35      | 20        | 20.46                | 20.37                 | 20.39                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 35      | 39        | 20.35                | 20.33                 | 20.47                | 21.8                | 2        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 20.40                | 20.40                 | 20.37                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 20.33                | 20.08                 | 20.13                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 20.32                | 20.26                 | 20.22                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 20.32                | 20.17                 | 20.41                | 21.8                | 2        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 35      | 0         | 19.24                | 19.09                 | 19.10                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 35      | 20        | 19.43                | 19.24                 | 19.16                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 35      | 39        | 19.35                | 18.10                 | 19.17                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 19.39                | 19.09                 | 19.10                | 20.8                | 3        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 0         | 18.01                | 17.87                 | 17.97                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 37        | 18.24                | 18.08                 | 18.09                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 1       | 74        | 18.03                | 17.92                 | 18.02                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 35      | 0         | 18.10                | 18.16                 | 17.92                | 19.3                | 4.5      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 35      | 20        | 18.16                | 18.35                 | 18.01                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 35      | 39        | 18.10                | 18.01                 | 17.98                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15              | 256QAM     | 75      | 0         | 18.05                | 17.92                 | 17.76                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Channel         |            |         |           | 37800                | 38000                 | 38200                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2575                 | 2595                  | 2615                 |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 21.98                | 22.06                 | 21.98                | 23.8                | 0        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.01                | 22.00                 | 22.14                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 21.86                | 22.14                 | 22.19                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 21.14                | 21.08                 | 21.14                |                     |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 21.32                | 21.26                 | 21.29                | 22.8                | 1        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| LTE Band 41 HPLTE |            |         |           |                             |                                    |                                |                                     |                              |                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-------------------|------------|---------|-----------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. |                        |                        |             |
| Channel           |            |         |           | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        |                        |                        |             |
| Frequency (MHz)   |            |         |           | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                        |                        |             |
| 20                | QPSK       | 1       | 0         | 24.95                       | 24.99                              | 24.91                          | 24.96                               | 24.92                        | 26.3                   | 0                      |             |
| 20                | QPSK       | 1       | 49        | 25.14                       | 24.99                              | 25.40                          | 25.10                               | 25.10                        |                        |                        |             |
| 20                | QPSK       | 1       | 99        | 24.92                       | 25.03                              | 25.35                          | 24.92                               | 25.06                        |                        |                        |             |
| 20                | QPSK       | 50      | 0         | 24.16                       | 24.16                              | 24.17                          | 24.26                               | 24.11                        |                        |                        |             |
| 20                | QPSK       | 50      | 24        | 24.36                       | 24.19                              | 24.60                          | 24.34                               | 24.29                        | 25.3                   | 1                      |             |
| 20                | QPSK       | 50      | 50        | 24.25                       | 24.19                              | 24.57                          | 24.23                               | 24.34                        |                        |                        |             |
| 20                | QPSK       | 100     | 0         | 24.24                       | 24.08                              | 24.51                          | 24.12                               | 24.22                        |                        |                        |             |
| 20                | 16QAM      | 1       | 0         | 24.06                       | 24.30                              | 24.09                          | 24.15                               | 24.07                        |                        |                        |             |
| 20                | 16QAM      | 1       | 49        | 24.48                       | 24.38                              | 24.41                          | 24.54                               | 24.51                        | 25.3                   | 1                      |             |
| 20                | 16QAM      | 1       | 99        | 24.18                       | 24.41                              | 24.23                          | 24.04                               | 24.33                        |                        |                        |             |
| 20                | 16QAM      | 50      | 0         | 23.11                       | 23.16                              | 23.04                          | 23.19                               | 23.21                        |                        |                        |             |
| 20                | 16QAM      | 50      | 24        | 23.29                       | 23.20                              | 23.42                          | 23.28                               | 23.38                        |                        |                        |             |
| 20                | 16QAM      | 50      | 50        | 23.31                       | 23.30                              | 23.41                          | 23.32                               | 23.41                        | 24.3                   | 2                      |             |
| 20                | 16QAM      | 100     | 0         | 23.15                       | 23.16                              | 23.39                          | 23.28                               | 23.28                        |                        |                        |             |
| 20                | 64QAM      | 1       | 0         | 22.75                       | 22.85                              | 22.49                          | 22.45                               | 22.53                        |                        |                        |             |
| 20                | 64QAM      | 1       | 49        | 22.80                       | 22.85                              | 22.61                          | 22.64                               | 22.54                        |                        |                        |             |
| 20                | 64QAM      | 1       | 99        | 22.88                       | 22.82                              | 22.87                          | 22.49                               | 22.51                        | 23.3                   | 3                      |             |
| 20                | 64QAM      | 50      | 0         | 21.95                       | 21.91                              | 21.83                          | 21.95                               | 21.81                        |                        |                        |             |
| 20                | 64QAM      | 50      | 24        | 21.80                       | 21.94                              | 21.82                          | 21.92                               | 21.80                        |                        |                        |             |
| 20                | 64QAM      | 50      | 50        | 21.98                       | 21.96                              | 21.81                          | 21.81                               | 21.96                        |                        |                        |             |
| 20                | 64QAM      | 100     | 0         | 21.98                       | 21.99                              | 21.76                          | 21.71                               | 21.81                        | 21.8                   | 4.5                    |             |
| 20                | 256QAM     | 1       | 0         | 19.95                       | 19.91                              | 19.85                          | 19.86                               | 19.80                        |                        |                        |             |
| 20                | 256QAM     | 1       | 49        | 20.00                       | 20.15                              | 19.98                          | 20.04                               | 19.84                        |                        |                        |             |
| 20                | 256QAM     | 1       | 99        | 20.35                       | 19.81                              | 20.37                          | 19.86                               | 19.80                        |                        |                        |             |
| 20                | 256QAM     | 50      | 0         | 19.94                       | 20.05                              | 20.01                          | 19.82                               | 19.85                        | 21.8                   | 4.5                    |             |
| 20                | 256QAM     | 50      | 24        | 19.86                       | 20.08                              | 19.99                          | 20.05                               | 20.04                        |                        |                        |             |
| 20                | 256QAM     | 50      | 50        | 20.05                       | 20.03                              | 20.01                          | 20.06                               | 20.03                        |                        |                        |             |
| 20                | 256QAM     | 100     | 0         | 20.07                       | 20.03                              | 19.97                          | 20.35                               | 20.10                        |                        |                        |             |
| Channel           |            |         |           | 39725                       | 40173                              | 40620                          | 41068                               | 41515                        | Tune-up limit<br>(dBm) | MPR<br>(dB)            |             |
| Frequency (MHz)   |            |         |           | 2503.5                      | 2546.3                             | 2593                           | 2637.8                              | 2682.5                       |                        |                        |             |
| 15                | QPSK       | 1       | 0         | 24.75                       | 24.80                              | 24.90                          | 25.07                               | 24.97                        | 26.3                   | 0                      |             |
| 15                | QPSK       | 1       | 37        | 24.89                       | 25.06                              | 24.98                          | 25.09                               | 25.03                        |                        |                        |             |
| 15                | QPSK       | 1       | 74        | 24.80                       | 24.83                              | 25.05                          | 24.92                               | 25.02                        |                        |                        |             |
| 15                | QPSK       | 36      | 0         | 24.16                       | 24.10                              | 24.16                          | 24.15                               | 24.14                        |                        |                        |             |
| 15                | QPSK       | 36      | 20        | 24.24                       | 24.22                              | 24.27                          | 24.30                               | 24.36                        | 25.3                   | 1                      |             |
| 15                | QPSK       | 36      | 36        | 24.26                       | 24.16                              | 24.26                          | 24.29                               | 24.41                        |                        |                        |             |
| 15                | QPSK       | 75      | 0         | 24.05                       | 24.12                              | 24.15                          | 24.26                               | 24.24                        |                        |                        |             |
| 15                | 16QAM      | 1       | 0         | 24.21                       | 24.24                              | 24.17                          | 24.42                               | 24.31                        |                        |                        |             |
| 15                | 16QAM      | 1       | 37        | 24.53                       | 24.42                              | 24.38                          | 24.44                               | 24.46                        | 25.3                   | 1                      |             |
| 15                | 16QAM      | 1       | 74        | 24.54                       | 24.21                              | 24.38                          | 24.30                               | 24.46                        |                        |                        |             |
| 15                | 16QAM      | 36      | 0         | 22.85                       | 23.04                              | 23.12                          | 23.22                               | 23.11                        |                        |                        |             |
| 15                | 16QAM      | 36      | 20        | 23.13                       | 23.18                              | 23.18                          | 23.33                               | 23.33                        |                        |                        |             |
| 15                | 16QAM      | 36      | 36        | 23.34                       | 23.13                              | 23.29                          | 23.30                               | 23.31                        | 24.3                   | 2                      |             |
| 15                | 16QAM      | 75      | 0         | 23.16                       | 23.14                              | 23.27                          | 23.37                               | 23.16                        |                        |                        |             |
| 15                | 64QAM      | 1       | 0         | 22.47                       | 22.58                              | 22.44                          | 22.62                               | 22.54                        |                        |                        |             |
| 15                | 64QAM      | 1       | 37        | 22.31                       | 22.64                              | 22.75                          | 22.39                               | 22.55                        |                        |                        |             |
| 15                | 64QAM      | 1       | 74        | 22.56                       | 22.53                              | 22.56                          | 22.54                               | 22.55                        | 23.3                   | 3                      |             |
| 15                | 64QAM      | 36      | 0         | 21.70                       | 21.95                              | 21.85                          | 21.83                               | 21.78                        |                        |                        |             |
| 15                | 64QAM      | 36      | 20        | 21.65                       | 22.05                              | 22.00                          | 21.75                               | 21.85                        |                        |                        |             |
| 15                | 64QAM      | 36      | 36        | 21.57                       | 22.06                              | 22.02                          | 21.59                               | 21.94                        |                        |                        |             |
| 15                | 64QAM      | 75      | 0         | 21.37                       | 21.75                              | 21.61                          | 21.74                               | 21.60                        | 21.8                   | 4.5                    |             |
| 15                | 256QAM     | 1       | 0         | 20.02                       | 19.99                              | 19.95                          | 20.17                               | 19.95                        |                        |                        |             |
| 15                | 256QAM     | 1       | 37        | 20.26                       | 19.99                              | 20.15                          | 20.04                               | 20.20                        |                        |                        |             |
| 15                | 256QAM     | 1       | 74        | 20.26                       | 19.97                              | 20.11                          | 20.26                               | 19.89                        |                        |                        |             |
| 15                | 256QAM     | 36      | 0         | 20.22                       | 19.89                              | 19.98                          | 19.95                               | 19.87                        | 21.8                   | 4.5                    |             |
| 15                | 256QAM     | 36      | 20        | 20.16                       | 20.14                              | 19.92                          | 20.06                               | 19.94                        |                        |                        |             |
| 15                | 256QAM     | 36      | 36        | 20.07                       | 19.98                              | 19.87                          | 20.29                               | 19.86                        |                        |                        |             |
| 15                | 256QAM     | 75      | 0         | 19.86                       | 19.84                              | 19.87                          | 19.93                               | 19.89                        |                        |                        |             |
| Channel           |            |         |           | 39700                       | 40160                              | 40620                          | 41080                               | 41540                        | Tune-up limit<br>(dBm) | MPR<br>(dB)            |             |
| Frequency (MHz)   |            |         |           | 2501                        | 2547                               | 2593                           | 2639                                | 2685                         |                        |                        |             |
| 10                | QPSK       | 1       | 0         | 24.76                       | 24.76                              | 24.76                          | 24.68                               | 24.7                         | 26.3                   | 0                      |             |
| 10                | QPSK       | 1       | 25        | 24.62                       | 24.77                              | 24.95                          | 24.95                               | 25.04                        |                        |                        |             |
| 10                | QPSK       | 1       | 49        | 25.07                       | 24.89                              | 24.89                          | 24.73                               | 24.88                        |                        |                        |             |
| 10                | QPSK       | 25      | 0         | 23.99                       | 24.03                              | 24.05                          | 24.12                               | 24.1                         |                        |                        |             |
| 10                | QPSK       | 25      | 12        | 23.93                       | 24.09                              | 24.17                          | 24.24                               | 24.22                        | 25.3                   | 1                      |             |
| 10                | QPSK       | 25      | 25        | 24                          | 24                                 | 24.04                          | 24.13                               | 24.12                        |                        |                        |             |
| 10                | QPSK       | 50      | 0         | 23.73                       | 23.99                              | 24.01                          | 24.08                               | 24.07                        |                        |                        |             |
| 10                | 16QAM      | 1       | 0         | 23.86                       | 23.91                              | 23.99                          | 24.1                                | 24.08                        |                        |                        |             |
| 10                | 16QAM      | 1       | 25        | 23.92                       | 24.08                              | 24.29                          | 24.28                               | 24.21                        | 25.3                   | 1                      |             |
| 10                | 16QAM      | 1       | 49        | 24.16                       | 24.02                              | 24.01                          | 24.24                               | 24.13                        |                        |                        |             |
| 10                | 16QAM      | 25      | 0         | 22.91                       | 22.9                               | 23.02                          | 23.16                               | 23.18                        |                        |                        |             |
| 10                | 16QAM      | 25      | 12        | 22.99                       | 23.16                              | 23.22                          | 23.26                               | 23.31                        |                        |                        |             |
| 10                | 16QAM      | 25      | 25        | 23.04                       | 23.05                              | 23.15                          | 23.1                                | 23.24                        | 24.3                   | 2                      |             |
| 10                | 16QAM      | 50      | 0         | 22.97                       | 23.05                              | 23.01                          | 23.1                                | 23.16                        |                        |                        |             |
| 10                | 64QAM      | 1       | 0         | 22.49                       | 22.39                              | 22.33                          | 22.40                               | 22.47                        |                        |                        |             |
| 10                | 64QAM      | 1       | 25        | 22.53                       | 22.57                              | 22.44                          | 22.37                               | 22.47                        |                        |                        |             |
| 10                | 64QAM      | 1       | 49        | 22.45                       | 22.45                              | 22.62                          | 22.49                               | 22.55                        | 23.3                   | 3                      |             |
| 10                | 64QAM      | 25      | 0         | 21.78                       | 22.01                              | 21.84                          | 21.89                               | 21.97                        |                        |                        |             |
| 10                | 64QAM      | 25      | 12        | 21.88                       | 22.13                              | 21.85                          | 21.77                               | 21.90                        |                        |                        |             |
| 10                | 64QAM      | 25      | 25        | 21.86                       | 21.91                              | 21.90                          | 21.81                               | 21.92                        |                        |                        |             |
| 10                | 64QAM      | 50      | 0         | 21.78                       | 21.92                              | 21.71                          | 21.59                               | 21.95                        | 21.8                   | 4.5                    |             |
| 10                | 256QAM     | 1       | 0         | 19.84                       | 19.90                              | 19.89                          | 19.95                               | 19.88                        |                        |                        |             |
| 10                | 256QAM     | 1       | 25        | 19.96                       | 19.92                              | 19.84                          | 19.92                               | 19.92                        |                        |                        |             |
| 10                | 256QAM     | 1       | 49        | 19.97                       | 19.59                              | 19.97                          | 19.81                               | 19.85                        |                        |                        |             |
| 10                | 256QAM     | 25      | 0         | 19.80                       | 19.80                              | 19.87                          | 19.92                               | 19.86                        | 21.8                   | 4.5                    |             |
| 10                | 256QAM     | 25      | 12        | 19.81                       | 20.02                              | 19.87                          | 19.88                               | 19.89                        |                        |                        |             |
| 10                | 256QAM     | 25      | 25        | 19.86                       | 19.83                              | 19.85                          | 19.81                               | 19.84                        |                        |                        |             |
| 10                | 256QAM     | 50      | 0         | 19.87                       | 19.51                              | 19.87                          | 19.82                               | 19.84                        |                        |                        |             |
| Channel           |            |         |           | 39675                       | 40148                              | 40620                          | 41093                               | 41565                        | Tune-up limit<br>(dBm) | MPR<br>(dB)            |             |
| Frequency (MHz)   |            |         |           | 2466.5                      | 2545.8                             | 2593                           | 2640.30                             | 2687.5                       |                        |                        |             |
| 5                 | QPSK       | 1       | 0         | 24.84                       | 24.85                              | 24.87                          | 24.97                               | 25.01                        | 26.3                   | 0                      |             |
| 5                 | QPSK       | 1       | 12        | 24.82                       | 24.85                              | 24.89                          | 24.98                               | 24.99                        |                        |                        |             |
| 5                 | QPSK       | 1       | 24        | 24.86                       | 24.87                              | 24.95                          | 24.93                               | 24.98                        |                        |                        |             |
| 5                 | QPSK       | 12      | 0         | 23.89                       | 24.04                              | 24.11                          | 24.11                               | 24.25                        |                        |                        |             |
| 5                 | QPSK       | 12      | 7         | 23.78                       | 24.12                              | 24.09                          | 24.11                               | 24.24                        | 25.3                   | 1                      |             |
| 5                 | QPSK       | 12      | 13        | 23.81                       | 24.10                              | 24.10                          | 24.19                               | 24.24                        |                        |                        |             |
| 5                 | QPSK       | 25      | 0         | 23.83                       | 24.02                              | 24.05                          | 24.09                               | 24.18                        |                        |                        |             |
| 5                 | 16QAM      | 1       | 0         | 23.88                       | 24.09                              | 24.24                          | 24.25                               | 24.28                        |                        |                        |             |
| 5                 | 16QAM      | 1       | 12        | 23.89                       | 24.23                              | 24.26                          | 24.28                               | 24.29                        | 25.3                   | 1                      |             |
| 5                 | 16QAM      | 1       | 24        | 23.94                       | 24.26                              | 24.27                          | 24.31                               | 24.28                        |                        |                        |             |
| 5                 | 16QAM      | 12      | 0         | 22.87                       | 23.15                              | 23.10                          | 23.17                               | 23.25                        |                        |                        |             |
| 5                 | 16QAM      | 12      | 7         | 22.85                       | 23.13                              | 23.09                          | 23.13                               | 23.32                        |                        |                        |             |
| 5                 | 16QAM      | 12      | 13        | 22.86                       | 23.11                              | 23.22                          | 23.16                               | 23.24                        | 24.3                   | 2                      |             |
| 5                 | 16QAM      | 25      | 0         | 22.79                       | 23.04                              | 23.10                          | 23.14                               | 23.19                        |                        |                        |             |
| 5                 | 64QAM      | 1       | 0         | 22.35                       | 22.34                              | 22.39                          | 22.63                               | 22.41                        |                        |                        |             |
| 5                 | 64QAM      | 1       | 12        | 22.41                       | 22.43                              | 22.55                          | 22.56                               | 22.40                        |                        |                        |             |
| 5                 | 64QAM      | 1       | 24        | 22.34                       | 22.34                              | 22.45                          | 22.49                               | 22.47                        | 23.3                   | 3                      |             |
| 5                 | 64QAM      | 12      | 0         | 21.40                       | 21.68                              | 21.55                          | 21.57                               | 21.43                        |                        |                        |             |
| 5                 | 64QAM      | 12      | 7         | 21.44                       | 21.73                              | 21.51                          | 21.62                               | 21.46                        |                        |                        |             |
| 5                 | 64QAM      | 12      | 13        | 21.45                       | 21.71                              | 21.61                          | 21.62                               | 21.34                        |                        |                        |             |
| 5                 | 64QAM      | 25      | 0         | 21.38                       | 21.68                              | 21.50                          | 21.54                               | 21.34                        | 21.8                   | 4.5                    |             |
| 5                 | 256QAM     | 1       | 0         | 19.80                       | 20.15                              | 19.80                          | 20.16                               | 19.82                        |                        |                        |             |
| 5                 | 256QAM     | 1       | 12        | 19.86                       | 20.16</                            |                                |                                     |                              |                        |                        |             |

| Reduced power for Hotspot on-LAT         |                           |       |        |                           |                           |       |        |                           |
|------------------------------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM1900<br>TX Channel<br>Frequency (MHz) | Burst-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
|                                          | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
|                                          | 1650.2                    | 1680  | 1909.8 |                           | 1650.2                    | 1680  | 1909.8 |                           |
| GSM 1 Tx slot                            | 27.96                     | 27.99 | 28.29  | 29.30                     | 18.96                     | 18.99 | 19.29  | 20.30                     |
| GPRS 1 Tx slot                           | 28.09                     | 27.97 | 28.15  | 29.30                     | 19.09                     | 18.97 | 19.15  | 20.30                     |
| GPRS 2 Tx slots                          | 25.29                     | 25.62 | 25.51  | 26.80                     | 19.29                     | 19.62 | 19.51  | 20.80                     |
| GPRS 3 Tx slots                          | 23.76                     | 24.07 | 23.90  | 25.50                     | 19.50                     | 19.81 | 19.64  | 21.24                     |
| GPRS 4 Tx slots                          | 22.94                     | 23.11 | 22.95  | 24.00                     | 19.94                     | 20.11 | 19.95  | 21.00                     |
| EDGE 1 Tx slot                           | 23.49                     | 23.59 | 23.70  | 24.80                     | 14.49                     | 14.59 | 14.70  | 15.80                     |
| EDGE 2 Tx slots                          | 22.48                     | 22.41 | 22.58  | 23.70                     | 16.48                     | 16.41 | 16.58  | 17.70                     |
| EDGE 3 Tx slots                          | 21.35                     | 21.57 | 21.90  | 22.60                     | 17.09                     | 17.31 | 17.24  | 18.34                     |
| EDGE 4 Tx slots                          | 20.10                     | 20.43 | 20.27  | 21.60                     | 17.10                     | 17.43 | 17.27  | 18.60                     |

| Band            |                          | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
|-----------------|--------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| TX Channel      |                          | 9262     | 9400  | 9638   |                           | 1312     | 1413   | 1613   |                           | 4132    | 4462  | 4233  |                           |
| RX Channel      |                          | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4367    | 4407  | 4458  |                           |
| Frequency (MHz) |                          | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1762.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps             | 20.73    | 20.86 | 20.77  | 21.80                     | 20.88    | 20.98  | 20.96  | 21.80                     | 23.12   | 23.15 | 23.11 | 23.80                     |
| 3GPP Rel 99     | RMC 12.2Kbps             | 20.77    | 20.88 | 20.78  | 21.80                     | 20.85    | 21.01  | 20.94  | 21.80                     | 23.16   | 23.13 | 23.12 | 23.80                     |
| 3GPP Rel 6      | HSDPA Subtest-1          | 19.74    | 19.89 | 19.79  | 20.80                     | 19.87    | 19.88  | 19.99  | 20.80                     | 22.15   | 22.13 | 22.10 | 22.80                     |
| 3GPP Rel 6      | HSDPA Subtest-2          | 19.74    | 19.85 | 19.78  | 20.80                     | 19.87    | 20.03  | 20.00  | 20.80                     | 22.13   | 22.13 | 22.13 | 22.80                     |
| 3GPP Rel 6      | HSDPA Subtest-3          | 19.22    | 19.39 | 19.32  | 20.30                     | 19.35    | 19.54  | 19.51  | 20.30                     | 21.64   | 21.68 | 21.61 | 22.30                     |
| 3GPP Rel 6      | HSDPA Subtest-4          | 19.18    | 19.35 | 19.31  | 20.30                     | 19.39    | 19.51  | 19.48  | 20.30                     | 21.64   | 21.63 | 21.61 | 22.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-1       | 19.72    | 19.87 | 19.73  | 20.80                     | 19.86    | 20.02  | 19.83  | 20.80                     | 22.12   | 22.10 | 22.09 | 22.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-2       | 19.69    | 20.07 | 19.67  | 20.80                     | 19.81    | 20.01  | 19.82  | 20.80                     | 22.09   | 22.07 | 22.06 | 22.80                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-3       | 19.16    | 19.39 | 19.20  | 20.30                     | 19.37    | 19.46  | 19.39  | 20.30                     | 21.61   | 21.56 | 21.56 | 22.30                     |
| 3GPP Rel 6      | DC-HSDPA Subtest-4       | 19.08    | 19.27 | 19.52  | 20.30                     | 19.36    | 19.38  | 19.32  | 20.30                     | 21.58   | 21.54 | 21.55 | 22.30                     |
| 3GPP Rel 6      | HSUPA Subtest-1          | 19.79    | 19.90 | 19.80  | 20.80                     | 19.98    | 20.07  | 19.99  | 20.80                     | 22.13   | 22.09 | 22.05 | 22.80                     |
| 3GPP Rel 6      | HSUPA Subtest-2          | 17.81    | 17.89 | 17.85  | 18.80                     | 17.92    | 18.09  | 17.98  | 18.80                     | 20.16   | 20.09 | 20.08 | 20.80                     |
| 3GPP Rel 6      | HSUPA Subtest-3          | 18.78    | 18.87 | 18.83  | 19.80                     | 18.90    | 19.05  | 19.02  | 19.80                     | 21.14   | 21.09 | 21.07 | 21.80                     |
| 3GPP Rel 6      | HSUPA Subtest-4          | 17.80    | 17.87 | 17.82  | 18.80                     | 17.94    | 18.04  | 17.99  | 18.80                     | 20.12   | 20.15 | 20.09 | 20.80                     |
| 3GPP Rel 6      | HSUPA Subtest-5          | 19.80    | 19.90 | 19.80  | 20.80                     | 19.90    | 20.00  | 20.00  | 20.80                     | 22.17   | 22.07 | 22.07 | 22.80                     |
| 3GPP Rel 7      | HSPA+ (100MHz) Subtest-1 | 17.95    | 18.18 | 18.12  | 18.80                     | 18.05    | 18.10  | 18.13  | 18.80                     | 20.25   | 20.28 | 20.24 | 20.80                     |

| Band             |  | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
|------------------|--|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| TX Channel       |  | 1013     | 384    | 777    |                           | 26       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  |  | 824.7    | 835.12 | 848.31 |                           | 1661.25  | 1660  | 1663.75 |                           | 817.8     | 820.5 | 823.1 |                           |
| RC1 S055         |  | 22.86    | 22.92  | 22.88  | 23.80                     | 21.11    | 21.10 | 21.21   | 22.30                     | 23.01     | 23.10 | 23.01 | 23.80                     |
| RC3 S055         |  | 22.88    | 22.89  | 22.87  | 23.80                     | 21.09    | 21.09 | 21.20   | 22.30                     | 23.00     | 23.04 | 23.00 | 23.80                     |
| RC3 S032 (F+SCH) |  | 22.87    | 22.88  | 22.82  | 23.80                     | 21.08    | 21.09 | 21.19   | 22.30                     | 23.00     | 23.04 | 23.00 | 23.80                     |
| RC3 S032 (F+SCH) |  | 22.77    | 22.78  | 22.72  | 23.80                     | 21.08    | 21.08 | 21.17   | 22.30                     | 22.99     | 23.04 | 23.00 | 23.80                     |
| RTAP 163.6Kbps   |  | 22.76    | 22.78  | 22.68  | 23.80                     | 21.06    | 21.07 | 21.17   | 22.30                     | 22.98     | 23.03 | 22.98 | 23.80                     |
| RTAP 409.6Kbps   |  | 22.75    | 22.73  | 22.68  | 23.80                     | 21.04    | 21.06 | 21.16   | 22.30                     | 22.96     | 22.99 | 22.96 | 23.80                     |









| Reduced power for Sensor on-LAT          |                           |       |        |                           |                           |       |        |                           |  |
|------------------------------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|--|
| GSM1900<br>TX Channel<br>Frequency (MHz) | Burst Average Power (dBm) |       |        | Turn-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Turn-up<br>Limit<br>(dBm) |  |
|                                          | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |  |
|                                          | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |  |
| GSM 1 Tx slot                            | 26.52                     | 26.55 | 26.85  | 27.80                     | 17.52                     | 17.55 | 17.85  | 18.80                     |  |
| GPRS 1 Tx slot                           | 26.65                     | 26.53 | 26.71  | 27.80                     | 17.65                     | 17.53 | 17.71  | 18.80                     |  |
| GPRS 2 Tx slots                          | 23.85                     | 24.18 | 24.07  | 25.30                     | 17.85                     | 18.18 | 18.07  | 19.30                     |  |
| GPRS 3 Tx slots                          | 22.32                     | 22.83 | 22.46  | 24.00                     | 18.06                     | 18.37 | 18.20  | 19.74                     |  |
| GPRS 4 Tx slots                          | 21.50                     | 21.67 | 21.51  | 22.50                     | 18.50                     | 18.67 | 18.51  | 19.50                     |  |
| EDGE 1 Tx slot                           | 22.05                     | 22.15 | 22.26  | 23.30                     | 13.05                     | 13.15 | 13.26  | 14.30                     |  |
| EDGE 2 Tx slots                          | 21.04                     | 20.97 | 21.14  | 22.20                     | 15.04                     | 14.97 | 15.14  | 16.20                     |  |
| EDGE 3 Tx slots                          | 19.91                     | 20.13 | 20.06  | 21.10                     | 15.85                     | 15.87 | 15.80  | 16.84                     |  |
| EDGE 4 Tx slots                          | 18.66                     | 18.99 | 18.83  | 20.10                     | 15.86                     | 15.89 | 15.83  | 17.10                     |  |

| Band            |                         | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|
| TX Channel      |                         | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                           | 1637     | 1638   | 1738   |                           |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           |
| 3GPP Rel 99     | AMR 12.2Kbps            | 19.73    | 19.86 | 19.77  | 20.80                     | 19.88    | 19.98  | 19.96  | 20.80                     |
| 3GPP Rel 99     | RMV 12.2Kbps            | 19.77    | 19.86 | 19.78  | 20.80                     | 19.89    | 20.01  | 19.94  | 20.80                     |
| 3GPP Rel 6      | HSDPA Subtest-1         | 18.74    | 18.89 | 18.79  | 19.80                     | 18.87    | 18.96  | 18.95  | 19.80                     |
| 3GPP Rel 6      | HSDPA Subtest-2         | 18.74    | 18.85 | 18.78  | 19.80                     | 18.87    | 19.03  | 19.00  | 19.80                     |
| 3GPP Rel 6      | HSDPA Subtest-3         | 18.22    | 18.39 | 18.32  | 19.30                     | 18.35    | 18.54  | 18.51  | 19.30                     |
| 3GPP Rel 6      | HSDPA Subtest-4         | 18.18    | 18.35 | 18.31  | 19.30                     | 18.39    | 18.51  | 18.48  | 19.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 18.72    | 18.87 | 18.73  | 19.80                     | 18.86    | 19.02  | 18.83  | 19.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 18.68    | 18.07 | 18.67  | 19.80                     | 18.51    | 19.01  | 18.82  | 19.80                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 18.15    | 18.30 | 18.20  | 19.30                     | 18.37    | 18.46  | 18.39  | 19.30                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 18.08    | 18.27 | 18.52  | 19.30                     | 18.36    | 18.38  | 18.32  | 19.30                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 18.79    | 18.90 | 18.80  | 19.80                     | 18.98    | 19.07  | 18.99  | 19.80                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 16.61    | 16.89 | 16.85  | 17.80                     | 16.92    | 17.09  | 16.98  | 17.80                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 17.78    | 17.87 | 17.83  | 18.80                     | 17.90    | 18.05  | 18.02  | 18.80                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 16.80    | 16.87 | 16.92  | 17.80                     | 16.94    | 17.04  | 16.99  | 17.80                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 18.80    | 18.90 | 18.80  | 19.80                     | 18.90    | 19.00  | 19.00  | 19.80                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 16.95    | 17.18 | 17.12  | 17.80                     | 17.05    | 17.10  | 17.13  | 17.80                     |

| Band             | CDMA BC1 |       |         | Tune-up |
|------------------|----------|-------|---------|---------|
| TX Channel       | 25       | 600   | 1175    | Limit   |
| Frequency (MHz)  | 1851.25  | 1860  | 1908.75 | (dBm)   |
| RC1 S065         | 19.26    | 19.25 | 19.36   | 20.30   |
| RC3 S065         | 19.24    | 19.24 | 19.35   | 20.30   |
| RC3 S03z (F+SCH) | 19.23    | 19.24 | 19.34   | 20.30   |
| RC3 S03z (F+SCH) | 19.23    | 19.23 | 19.32   | 20.30   |
| RTAP 153 B00ys   | 19.21    | 19.22 | 19.32   | 20.30   |
| RETAP 406Bsis    | 19.19    | 19.20 | 19.31   | 20.30   |















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LTE Uplink CA for UAT

| CA_66C                                |             |            |         |           |         |           |               |                       |                         |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-------------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                         |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction         | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                         |                      |                     |
| 130772                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 20.09                | 21.30               |
| 130302                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 20.32                | 21.30               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 20.31                | 21.30               |
| 130772                                | 132270      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 19.09                | 20.30               |
| 132302                                | 132124      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 19.34                | 20.30               |
| 132572                                | 132374      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 19.38                | 20.30               |
| 130772                                | 132270      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 18.42                | 19.30               |
| 132302                                | 132124      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 18.61                | 19.30               |
| 132572                                | 132374      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 18.55                | 19.30               |
| 130772                                | 132270      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 15.32                | 17.30               |
| 132302                                | 132124      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 15.52                | 17.30               |
| 132572                                | 132374      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power              | 15.43                | 17.30               |
| 130772                                | 132270      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/3 | 12.62                | 13.80               |
| 132302                                | 132124      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/3 | 12.78                | 13.80               |
| 132572                                | 132374      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/3 | 12.71                | 13.80               |
| 130772                                | 132270      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/4 | 11.64                | 12.80               |
| 132302                                | 132124      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/4 | 11.78                | 12.80               |
| 132572                                | 132374      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/4 | 11.71                | 12.80               |
| 130772                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Reduced                 | 15.22                | 16.30               |
| 132302                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Reduced                 | 15.39                | 16.30               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Reduced                 | 15.28                | 16.30               |

| CA_41C                                |             |            |         |           |         |           |               |                       |                           |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|---------------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                           |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction           | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                           |                      |                     |
| 39790                                 | 39688       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.13                | 22.10               |
| 39750                                 | 39648       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.16                | 22.10               |
| 40185                                 | 39697       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.21                | 22.10               |
| 40620                                 | 40422       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.28                | 22.10               |
| 41055                                 | 40657       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.22                | 22.10               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 21.25                | 22.10               |
| 39790                                 | 39688       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.03                | 21.10               |
| 39750                                 | 39648       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.17                | 21.10               |
| 40185                                 | 39697       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.05                | 21.10               |
| 40620                                 | 40422       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.25                | 21.10               |
| 41055                                 | 40657       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.21                | 21.10               |
| 41490                                 | 41292       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 20.18                | 21.10               |
| 39790                                 | 39688       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.51                | 20.10               |
| 39750                                 | 39648       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.58                | 20.10               |
| 40185                                 | 39697       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.67                | 20.10               |
| 40620                                 | 40422       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.78                | 20.10               |
| 41055                                 | 40657       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.69                | 20.10               |
| 41490                                 | 41292       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 18.33                | 20.10               |
| 39790                                 | 39688       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.06                | 17.60               |
| 39750                                 | 39648       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.11                | 17.60               |
| 40185                                 | 39697       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.08                | 17.60               |
| 40620                                 | 40422       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.18                | 17.60               |
| 41055                                 | 40657       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.15                | 17.60               |
| 41490                                 | 41292       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                | 16.03                | 17.60               |
| 39790                                 | 39688       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.11                | 16.10               |
| 39750                                 | 39648       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.08                | 16.10               |
| 40185                                 | 39697       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.12                | 16.10               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.32                | 16.10               |
| 41055                                 | 40657       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.23                | 16.10               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1     | 15.29                | 16.10               |
| 39790                                 | 39688       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.13                | 15.10               |
| 39750                                 | 39648       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.11                | 15.10               |
| 40185                                 | 39697       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.12                | 15.10               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.38                | 15.10               |
| 41055                                 | 40657       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.25                | 15.10               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 2/3/4 | 14.32                | 15.10               |
| 39790                                 | 39688       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.15                | 18.10               |
| 39750                                 | 39648       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.21                | 18.10               |
| 40185                                 | 39697       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.25                | 18.10               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.27                | 18.10               |
| 41055                                 | 40657       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.13                | 18.10               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                   | 17.19                | 18.10               |

| CA_41C-HPUE                           |             |            |         |           |         |           |               |                       |                             |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                             |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction             | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                             |                      |                     |
| 39790                                 | 39888       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.49                | 24.60               |
| 39790                                 | 39848       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.43                | 24.60               |
| 40185                                 | 39887       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.27                | 24.60               |
| 40620                                 | 40422       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.73                | 24.60               |
| 41055                                 | 40857       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.58                | 24.60               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 23.59                | 24.60               |
| 39790                                 | 39888       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.73                | 23.60               |
| 39790                                 | 39848       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.75                | 23.60               |
| 40185                                 | 39887       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.51                | 23.60               |
| 40620                                 | 40422       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.82                | 23.60               |
| 41055                                 | 40857       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.78                | 23.60               |
| 41490                                 | 41292       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 22.83                | 23.60               |
| 39790                                 | 39888       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.33                | 22.60               |
| 39790                                 | 39848       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.42                | 22.60               |
| 40185                                 | 39887       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.67                | 22.60               |
| 40620                                 | 40422       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.55                | 22.60               |
| 41055                                 | 40857       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.54                | 22.60               |
| 41490                                 | 41292       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 21.36                | 22.60               |
| 39790                                 | 39888       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 18.12                | 20.10               |
| 39790                                 | 39848       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 18.17                | 20.10               |
| 40185                                 | 39887       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 18.25                | 20.10               |
| 40620                                 | 40422       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 18.64                | 20.10               |
| 41055                                 | 40857       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 18.9                 | 20.10               |
| 41490                                 | 41292       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 17.24                | 20.10               |
| 39790                                 | 39888       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 17.82                | 18.60               |
| 39790                                 | 39848       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 17.85                | 18.60               |
| 40185                                 | 39887       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 17.75                | 18.60               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 18.03                | 18.60               |
| 41055                                 | 40857       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 17.81                | 18.60               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 17.95                | 18.60               |
| 39790                                 | 39888       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.28                | 20.10               |
| 39790                                 | 39848       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.35                | 20.10               |
| 40185                                 | 39887       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.16                | 20.10               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.37                | 20.10               |
| 41055                                 | 40857       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.13                | 20.10               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced                     | 19.16                | 20.10               |

| CA_48C-FCC                            |             |            |         |           |         |           |               |                       |                             |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                             |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction             | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                             |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.68                 | 7.50                |
| 55930                                 | 55932       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.88                 | 7.50                |
| 56150                                 | 55952       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.71                 | 7.50                |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.85                 | 7.50                |
| 55340                                 | 55538       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.61                 | 7.50                |
| 55930                                 | 55932       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.85                 | 7.50                |
| 56150                                 | 55952       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.76                 | 7.50                |
| 56640                                 | 56442       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.59                 | 7.50                |
| 55340                                 | 55538       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.78                 | 7.50                |
| 55930                                 | 55932       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.56                 | 7.50                |
| 56150                                 | 55952       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.85                 | 7.50                |
| 56640                                 | 56442       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.49                 | 7.50                |
| 55340                                 | 55538       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.62                 | 7.50                |
| 55930                                 | 55932       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.71                 | 7.50                |
| 56150                                 | 55952       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.54                 | 7.50                |
| 56640                                 | 56442       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power                  | 5.63                 | 7.50                |
| 55340                                 | 55538       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Full Power                  | 20.97                | 21.80               |
| 55930                                 | 55932       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Full Power                  | 20.94                | 21.80               |
| 56150                                 | 55952       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Full Power                  | 21.07                | 21.80               |
| 56640                                 | 56442       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Full Power                  | 21.11                | 21.80               |
| 55340                                 | 55538       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 14.07                | 14.80               |
| 55930                                 | 55932       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 14.25                | 14.80               |
| 56150                                 | 55952       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 14.22                | 14.80               |
| 56640                                 | 56442       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced power level 1/2/3/4 | 14.21                | 14.80               |
| 55340                                 | 55538       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced                     | 16.70                | 17.30               |
| 55930                                 | 55932       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced                     | 16.88                | 17.30               |
| 56150                                 | 55952       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced                     | 16.72                | 17.30               |
| 56640                                 | 56442       | QPSK       | 100     | 0         | 0       | 0         | 1             | 0                     | Reduced                     | 16.68                | 17.30               |

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| CA_66C                                |             |            |         |           |         |           |               |                       |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 21.16                | 22.80               |
| 132322                                | 132124      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 21.45                | 22.80               |
| 132572                                | 132374      | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 21.29                | 22.80               |
| 132072                                | 132270      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 20.38                | 21.80               |
| 132322                                | 132124      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 20.73                | 21.80               |
| 132572                                | 132374      | 16QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 20.65                | 21.80               |
| 132072                                | 132270      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 19.44                | 20.80               |
| 132322                                | 132124      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 19.84                | 20.80               |
| 132572                                | 132374      | 64QAM      | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 18.77                | 20.80               |
| 132072                                | 132270      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 18.47                | 18.30               |
| 132322                                | 132124      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 18.61                | 18.30               |
| 132572                                | 132374      | 256QAM     | 1       | 0         | 0       | 0         | 1             | 0                     | Full Power      | 16.66                | 18.30               |
| 132072                                | 132270      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 19.82                | 20.80               |
| 132322                                | 132124      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.02                | 20.80               |
| 132572                                | 132374      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.01                | 20.80               |
| 132072                                | 132270      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 19.35                | 20.30               |
| 132322                                | 132124      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 19.29                | 20.30               |
| 132572                                | 132374      | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 19.61                | 20.30               |

| CA_41C                                |             |            |         |           |         |           |               |                       |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 39750                                 | 39688       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.89                | 23.80               |
| 39750                                 | 39648       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.96                | 23.80               |
| 40185                                 | 39687       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.98                | 23.80               |
| 40620                                 | 40422       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.08                | 23.80               |
| 41055                                 | 40857       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.02                | 23.80               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.06                | 23.80               |
| 39750                                 | 39688       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.24                | 22.80               |
| 39750                                 | 39648       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.42                | 22.80               |
| 40185                                 | 39687       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.51                | 22.80               |
| 40620                                 | 40422       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 21.01                | 22.80               |
| 41055                                 | 40857       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.97                | 22.80               |
| 41490                                 | 41292       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.87                | 22.80               |
| 39750                                 | 39688       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.12                | 21.80               |
| 39750                                 | 39648       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.05                | 21.80               |
| 40185                                 | 39687       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.34                | 21.80               |
| 40620                                 | 40422       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 19.95                | 21.80               |
| 41055                                 | 40857       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 19.94                | 21.80               |
| 41490                                 | 41292       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 19.81                | 21.80               |
| 39750                                 | 39688       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 17.99                | 19.30               |
| 39750                                 | 39648       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 18.02                | 19.30               |
| 40185                                 | 39687       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 18.05                | 19.30               |
| 40620                                 | 40422       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 18.07                | 19.30               |
| 41055                                 | 40857       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 17.88                | 19.30               |
| 41490                                 | 41292       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 18.08                | 19.30               |
| 39750                                 | 39688       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Reduced         | 17.82                | 18.80               |
| 39750                                 | 39648       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Reduced         | 17.86                | 18.80               |
| 40185                                 | 39687       | QPSK       | 1       | 49        | 0       | 0         | 2             | 0                     | Reduced         | 17.53                | 18.80               |
| 40620                                 | 40422       | QPSK       | 1       | 49        | 0       | 0         | 2             | 0                     | Reduced         | 17.84                | 18.80               |
| 41055                                 | 40857       | QPSK       | 1       | 49        | 0       | 0         | 2             | 0                     | Reduced         | 17.79                | 18.80               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         | 2             | 0                     | Reduced         | 17.83                | 18.80               |
| 39750                                 | 39688       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 18.72                | 19.80               |
| 39750                                 | 39648       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 18.79                | 19.80               |
| 40185                                 | 39687       | QPSK       | 50      | 24        | 0       | 0         | 2             | 0                     | Reduced         | 18.63                | 19.80               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 2             | 0                     | Reduced         | 18.01                | 19.80               |
| 41055                                 | 40857       | QPSK       | 50      | 24        | 0       | 0         | 2             | 0                     | Reduced         | 18.86                | 19.80               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 2             | 0                     | Reduced         | 18.98                | 19.80               |

| CA_41C-HPUE                           |             |            |         |           |         |           |               |                       |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MFR Level (dB) | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                 |                      |                     |
| 39790                                 | 39988       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 25.22                | 26.30               |
| 39790                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 25.19                | 26.30               |
| 40185                                 | 39987       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.95                | 26.30               |
| 40620                                 | 40422       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 25.29                | 26.30               |
| 41055                                 | 40857       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 25.08                | 26.30               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 25.09                | 26.30               |
| 39790                                 | 39988       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.06                | 25.30               |
| 39790                                 | 39948       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.13                | 25.30               |
| 40185                                 | 39987       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.21                | 25.30               |
| 40620                                 | 40422       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.13                | 25.30               |
| 41055                                 | 40857       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 23.98                | 25.30               |
| 41490                                 | 41292       | 16QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 24.11                | 25.30               |
| 39790                                 | 39988       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.86                | 24.30               |
| 39790                                 | 39948       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.85                | 24.30               |
| 40185                                 | 39987       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 23.04                | 24.30               |
| 40620                                 | 40422       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.79                | 24.30               |
| 41055                                 | 40857       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 22.63                | 24.30               |
| 41490                                 | 41292       | 64QAM      | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 23.03                | 24.30               |
| 39790                                 | 39988       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 19.96                | 21.60               |
| 39790                                 | 39948       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.01                | 21.60               |
| 40185                                 | 39987       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.23                | 21.60               |
| 40620                                 | 40422       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.05                | 21.60               |
| 41055                                 | 40857       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 19.98                | 21.60               |
| 41490                                 | 41292       | 256QAM     | 1       | 49        | 0       | 0         | 1             | 0                     | Full Power      | 20.24                | 21.60               |
| 39790                                 | 39988       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.42                | 21.30               |
| 39790                                 | 39948       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.87                | 21.30               |
| 40185                                 | 39987       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.08                | 21.30               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.48                | 21.30               |
| 41055                                 | 40857       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.35                | 21.30               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 20.59                | 21.30               |
| 39790                                 | 39988       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.43                | 22.30               |
| 39790                                 | 39948       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.47                | 22.30               |
| 40185                                 | 39987       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.49                | 22.30               |
| 40620                                 | 40422       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.51                | 22.30               |
| 41055                                 | 40857       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.37                | 22.30               |
| 41490                                 | 41292       | QPSK       | 50      | 24        | 0       | 0         | 1             | 0                     | Reduced         | 21.41                | 22.30               |

Full Power for UAT

| n2 (only SC/5150KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel                        |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 1860                  | 1860                     | 1860                   |                     |          |
| 20                             | PQ2 BPSK   | 1       | 1         | 20.89                 | 20.92                    | 21.38                  |                     |          |
| 20                             | PQ2 BPSK   | 1       | 53        | 20.95                 | 20.78                    | 21.07                  | 22.5                | 0        |
| 20                             | PQ2 BPSK   | 1       | 104       | 20.89                 | 20.85                    | 20.95                  |                     |          |
| 20                             | PQ2 BPSK   | 50      | 0         | 20.42                 | 20.69                    | 21.06                  |                     |          |
| 20                             | PQ2 BPSK   | 50      | 38        | 20.42                 | 20.55                    | 21                     | 22.5                | 0        |
| 20                             | PQ2 BPSK   | 50      | 55        | 20.38                 | 20.77                    | 21.05                  |                     |          |
| 20                             | PQ2 BPSK   | 100     | 0         | 20.48                 | 20.65                    | 20.89                  | 22.5                | 0        |
| 20                             | QPSK       | 1       | 1         | 21.61                 | 21.2                     | 21.5                   |                     |          |
| 20                             | QPSK       | 1       | 53        | 20.96                 | 21.38                    | 21.41                  | 22.5                | 0        |
| 20                             | QPSK       | 1       | 104       | 21.18                 | 21.37                    | 21.39                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 20.91                 | 20.4                     | 20.48                  |                     |          |
| 20                             | QPSK       | 50      | 28        | 20.96                 | 21.35                    | 21.39                  | 22.5                | 0        |
| 20                             | QPSK       | 50      | 58        | 20.1                  | 20.49                    | 20.47                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 20.02                 | 20.47                    | 20.48                  | 21.5                | 1        |
| 20                             | 16QAM      | 1       | 1         | 20.08                 | 20.2                     | 20.48                  | 21.5                | 1        |
| 20                             | 64QAM      | 1       | 1         | 18.38                 | 18.71                    | 18.91                  | 20                  | 2.5      |
| 20                             | 256QAM     | 1       | 1         | 16.71                 | 16.93                    | 17.03                  | 18                  | 4.5      |
| Channel                        |            |         |           | 377000                | 376000                   | 375000                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 1867.5                | 1860                     | 1862.5                 |                     |          |
| 15                             | QPSK       | 1       | 1         | 20.83                 | 21.18                    | 21.45                  | 22.5                | 0        |
| Channel                        |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 1860                  | 1860                     | 1860                   |                     |          |
| 10                             | QPSK       | 1       | 1         | 20.77                 | 21.15                    | 21.25                  | 22.5                | 0        |
| Channel                        |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 1862.5                | 1860                     | 1867.5                 |                     |          |

| n5 (only SC/5150KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MFR (dB) |
| Channel                        |            |         |           | 166800                | 167300                   | 167800                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 834                   | 834.5                    | 835                    |                     |          |
| 20                             | PQ2 BPSK   | 1       | 1         | 23.19                 | 23.19                    | 23.05                  |                     |          |
| 20                             | PQ2 BPSK   | 1       | 53        | 23.05                 | 23.08                    | 22.95                  | 24.3                | 0        |
| 20                             | PQ2 BPSK   | 1       | 104       | 22.98                 | 23.11                    | 22.85                  |                     |          |
| 20                             | PQ2 BPSK   | 50      | 0         | 23.15                 | 23.05                    | 22.78                  |                     |          |
| 20                             | PQ2 BPSK   | 50      | 28        | 22.85                 | 22.89                    | 22.45                  | 24.3                | 0        |
| 20                             | PQ2 BPSK   | 50      | 55        | 22.74                 | 22.65                    | 22.6                   |                     |          |
| 20                             | PQ2 BPSK   | 100     | 0         | 23.11                 | 22.95                    | 22.78                  | 24.3                | 0        |
| 20                             | QPSK       | 1       | 1         | 23.28                 | 23.5                     | 23.27                  |                     |          |
| 20                             | QPSK       | 1       | 53        | 23.13                 | 23.14                    | 23.13                  | 24.3                | 0        |
| 20                             | QPSK       | 1       | 104       | 23.13                 | 23.18                    | 23.05                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 23.2                  | 23.22                    | 22.17                  |                     |          |
| 20                             | QPSK       | 50      | 28        | 23.09                 | 23.1                     | 23.08                  | 24.3                | 0        |
| 20                             | QPSK       | 50      | 58        | 22.14                 | 22.17                    | 22.15                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 22.21                 | 22.23                    | 22.2                   | 23.3                | 1        |
| 20                             | 16QAM      | 1       | 1         | 22.32                 | 22.35                    | 22.28                  | 23.3                | 1        |
| 20                             | 64QAM      | 1       | 1         | 20.73                 | 20.74                    | 22.55                  | 21.8                | 2.5      |
| 20                             | 256QAM     | 1       | 1         | 18.96                 | 18.99                    | 18.78                  | 19.8                | 4.5      |
| Channel                        |            |         |           | 167300                | 167300                   | 167300                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 831.5                 | 835.5                    | 841.5                  |                     |          |
| 15                             | QPSK       | 1       | 1         | 23.28                 | 23.2                     | 23.19                  | 24.3                | 0        |
| Channel                        |            |         |           | 166800                | 167300                   | 166800                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 829                   | 835.5                    | 844                    |                     |          |
| 10                             | QPSK       | 1       | 1         | 23.09                 | 23.05                    | 23.08                  | 24.3                | 0        |
| Channel                        |            |         |           | 166300                | 167300                   | 166300                 | Tune-up limit (dBm) | MFR (dB) |
| Frequency (MHz)                |            |         |           | 826.5                 | 835.5                    | 846.5                  |                     |          |

| n66 (only SC3150Hz has 9M BW) |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                            | PI/2 BPSK  | 1       | 1         | 20.96                 | 21.05                    | 21.01                  | 22.5                | 0        |  |
| 20                            | PI/2 BPSK  | 1       | 53        | 20.67                 | 20.78                    | 20.6                   |                     |          |  |
| 20                            | PI/2 BPSK  | 1       | 104       | 20.89                 | 20.92                    | 20.39                  |                     |          |  |
| 20                            | PI/2 BPSK  | 50      | 0         | 20.89                 | 20.87                    | 20.98                  | 22.5                | 0        |  |
| 20                            | PI/2 BPSK  | 50      | 26        | 20.40                 | 20.45                    | 20.44                  |                     |          |  |
| 20                            | PI/2 BPSK  | 50      | 56        | 20.56                 | 20.63                    | 20.58                  |                     |          |  |
| 20                            | PI/2 BPSK  | 100     | 0         | 20.78                 | 20.89                    | 20.45                  | 22.5                | 0        |  |
| 20                            | QPSK       | 1       | 1         | 21.02                 | 21.07                    | 21.06                  |                     |          |  |
| 20                            | QPSK       | 1       | 53        | 20.95                 | 21.02                    | 21                     |                     |          |  |
| 20                            | QPSK       | 1       | 104       | 21                    | 20.99                    | 20.99                  | 22.5                | 0        |  |
| 20                            | QPSK       | 50      | 0         | 19.95                 | 20.03                    | 20.02                  |                     |          |  |
| 20                            | QPSK       | 50      | 26        | 20.86                 | 20.91                    | 20.9                   |                     |          |  |
| 20                            | QPSK       | 50      | 56        | 19.92                 | 19.94                    | 20.01                  | 21.5                | 1        |  |
| 20                            | QPSK       | 100     | 0         | 19.87                 | 19.95                    | 19.93                  |                     |          |  |
| 20                            | 16QAM      | 1       | 1         | 19.98                 | 20.04                    | 20.03                  |                     |          |  |
| 20                            | 64QAM      | 1       | 1         | 18.3                  | 18.44                    | 18.71                  | 20                  | 2.5      |  |
| 20                            | 256QAM     | 1       | 1         | 16.73                 | 16.66                    | 16.83                  | 18                  | 4.5      |  |
| Channel                       |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15                            | QPSK       | 1       | 1         | 20.96                 | 21                       | 20.99                  | 22.5                | 0        |  |
| Channel                       |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10                            | QPSK       | 1       | 1         | 20.96                 | 20.92                    | 20.88                  | 22.5                | 0        |  |
| Channel                       |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |

| n71 (only SC3150Hz has 9M BW) |            |         |           |                          |                             |                           |                        |             |  |  |
|-------------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dbm) | MPR<br>(db) |  |  |
| Channel                       |            |         |           | 136000                   | 136100                      | 137600                    | Tune-up limit<br>(dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)               |            |         |           | 670                      | 669.5                       | 668                       |                        |             |  |  |
| 20                            | PI/2 BPSK  | 1       | 1         | 23.11                    | 23.13                       | 23.01                     | 24.3                   | 0           |  |  |
| 20                            | PI/2 BPSK  | 1       | 53        | 22.9                     | 23.01                       | 22.85                     |                        |             |  |  |
| 20                            | PI/2 BPSK  | 1       | 104       | 22.89                    | 22.89                       | 22.77                     |                        |             |  |  |
| 20                            | PI/2 BPSK  | 50      | 0         | 22.98                    | 22.78                       | 22.62                     | 24.3                   | 0           |  |  |
| 20                            | PI/2 BPSK  | 50      | 26        | 22.40                    | 22.45                       | 22.39                     |                        |             |  |  |
| 20                            | PI/2 BPSK  | 50      | 56        | 22.39                    | 22.32                       | 22.34                     |                        |             |  |  |
| 20                            | PI/2 BPSK  | 100     | 0         | 22.62                    | 22.44                       | 22.52                     | 24.3                   | 0           |  |  |
| 20                            | QPSK       | 1       | 1         | 23.17                    | 23.19                       | 23.13                     | 24.3                   | 0           |  |  |
| 20                            | QPSK       | 1       | 53        | 23.13                    | 23.15                       | 23.06                     |                        |             |  |  |
| 20                            | QPSK       | 1       | 104       | 22.96                    | 22.98                       | 22.76                     |                        |             |  |  |
| 20                            | QPSK       | 50      | 0         | 22.13                    | 22.15                       | 22.03                     | 24.3                   | 0           |  |  |
| 20                            | QPSK       | 50      | 26        | 22.97                    | 23                          | 22.92                     |                        |             |  |  |
| 20                            | QPSK       | 50      | 56        | 22.11                    | 22.16                       | 21.97                     |                        |             |  |  |
| 20                            | QPSK       | 100     | 0         | 22.03                    | 22.06                       | 22.05                     | 23.3                   | 1           |  |  |
| 20                            | 16QAM      | 1       | 1         | 22.23                    | 22.13                       | 22.2                      | 23.3                   | 1           |  |  |
| 20                            | 64QAM      | 1       | 1         | 20.74                    | 20.61                       | 20.56                     | 21.8                   | 2.5         |  |  |
| 20                            | 256QAM     | 1       | 1         | 18.99                    | 18.95                       | 18.81                     | 19.8                   | 4.5         |  |  |
| Channel                       |            |         |           | 134000                   | 134100                      | 135100                    | Tune-up limit<br>(dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)               |            |         |           | 670.5                    | 669.5                       | 669.5                     |                        |             |  |  |
| 15                            | QPSK       | 1       | 1         | 23.16                    | 23.06                       | 23.07                     | 24.3                   | 0           |  |  |
| Channel                       |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit<br>(dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)               |            |         |           | 668                      | 669.5                       | 669                       |                        |             |  |  |
| 10                            | QPSK       | 1       | 1         | 23.02                    | 22.88                       | 22.92                     | 24.3                   | 0           |  |  |
| Channel                       |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit<br>(dbm) | MPR<br>(db) |  |  |
| Frequency (MHz)               |            |         |           | 665.5                    | 669.5                       | 665.5                     |                        |             |  |  |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 528000                 | 23.3                | 0        |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 2145                  | 2162                     | 2136                   |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 2133                  | 2149                     | 2165                   | 23.3                | 0        |
| 100             | PI2 BPSK   | 1       | 271       | 2129                  | 2133                     | 2139                   |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 2145                  | 2152                     | 2156                   |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 2139                  | 2129                     | 2166                   | 23.3                | 0        |
| 100             | PI2 BPSK   | 135     | 138       | 2133                  | 216                      | 2123                   |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 214                   | 2144                     | 2134                   |                     |          |
| 100             | QPSK       | 1       | 1         | 2165                  | 2205                     | 2191                   | 23.3                | 0        |
| 100             | QPSK       | 1       | 137       | 2134                  | 2195                     | 2168                   |                     |          |
| 100             | QPSK       | 1       | 271       | 2142                  | 2177                     | 2145                   |                     |          |
| 100             | QPSK       | 135     | 0         | 214                   | 2175                     | 2148                   | 23.3                | 0        |
| 100             | QPSK       | 135     | 69        | 2153                  | 2183                     | 2162                   |                     |          |
| 100             | QPSK       | 135     | 138       | 2147                  | 2182                     | 2167                   |                     |          |
| 100             | QPSK       | 270     | 0         | 2145                  | 2168                     | 2158                   | 23.3                | 0        |
| 100             | 16QAM      | 1       | 1         | 2141                  | 2175                     | 2152                   | 23.3                | 0        |
| 100             | 64QAM      | 1       | 1         | 2153                  | 2188                     | 2155                   | 23.3                | 0        |
| 100             | 256QAM     | 1       | 1         | 19.85                 | 20.21                    | 19.98                  | 18.8                | 4.5      |
| Channel         |            |         |           | 505200                | 518600                   | 528000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   | 23.3                | 0        |
| 90              | QPSK       | 1       | 1         | 2145                  | 2183                     | 2202                   |                     |          |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   | 23.3                | 0        |
| 80              | QPSK       | 1       | 1         | 2142                  | 217                      | 2198                   |                     |          |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   | 23.3                | 0        |
| 60              | QPSK       | 1       | 1         | 2134                  | 216                      | 2194                   |                     |          |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   | 23.3                | 0        |
| 50              | QPSK       | 1       | 1         | 2132                  | 2162                     | 2198                   |                     |          |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   | 23.3                | 0        |
| 40              | QPSK       | 1       | 1         | 2151                  | 2188                     | 2203                   |                     |          |
| Channel         |            |         |           | 501200                | 518600                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2500                  | 2593                     | 2680                   | 23.3                | 0        |
| 20              | QPSK       | 1       | 1         | 2135                  | 2178                     | 2197                   |                     |          |

Reduced power level 1 for Head-UAT

| r2 (only SCS150kHz has 9M BW) |            |         |           |                     |                        |                      |                     |          |  |
|-------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 20                            | PI2 BPSK   | 1       | 1         | 14.83               | 14.96                  | 15.3                 | 16.5                | 0        |  |
|                               | PI2 BPSK   | 1       | 53        | 14.99               | 14.82                  | 15.11                |                     |          |  |
|                               | PI2 BPSK   | 1       | 104       | 14.82               | 14.89                  | 14.99                |                     |          |  |
| 20                            | PI2 BPSK   | 50      | 0         | 14.46               | 14.73                  | 15.1                 | 16.5                | 0        |  |
| 20                            | PI2 BPSK   | 50      | 26        | 14.49               | 14.6                   | 15.04                |                     |          |  |
| 20                            | PI2 BPSK   | 50      | 56        | 14.3                | 14.81                  | 15.09                |                     |          |  |
| 20                            | PI2 BPSK   | 100     | 0         | 14.52               | 14.69                  | 14.93                | 16.5                | 0        |  |
| 20                            | QPSK       | 1       | 1         | 15.12               | 15.26                  | 15.59                | 16.5                | 0        |  |
| 20                            | QPSK       | 1       | 53        | 14.96               | 15.38                  | 15.41                |                     |          |  |
| 20                            | QPSK       | 1       | 104       | 15.18               | 15.37                  | 15.39                |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 15.08               | 15.47                  | 15.51                | 16.5                | 0        |  |
| 20                            | QPSK       | 50      | 26        | 15.1                | 15.47                  | 15.55                |                     |          |  |
| 20                            | QPSK       | 50      | 56        | 15.17               | 15.36                  | 15.54                |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 15.09               | 15.54                  | 15.55                | 16.5                | 0        |  |
| 20                            | 16QAM      | 1       | 1         | 15.11               | 15.25                  | 15.53                | 16.5                | 0        |  |
| 20                            | 64QAM      | 1       | 1         | 14.99               | 15.02                  | 15                   | 16.5                | 0        |  |
| 20                            | 256QAM     | 1       | 1         | 14.73               | 14.65                  | 15.05                | 16.5                | 0        |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 15                            | QPSK       | 1       | 1         | 14.7                | 14.9                   | 15.2                 | 16.5                | 0        |  |
|                               | QPSK       | 1       | 1         | 14.9                | 15.11                  | 15.32                |                     |          |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 10                            | QPSK       | 1       | 1         | 14.65               | 14.86                  | 15.05                | 16.5                | 0        |  |
|                               | QPSK       | 1       | 1         | 14.74               | 15.07                  | 15.18                |                     |          |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 5                             | QPSK       | 1       | 1         | 14.63               | 15.11                  | 15.06                | 16.5                | 0        |  |
|                               | QPSK       | 1       | 1         | 14.74               | 15.07                  | 15.18                |                     |          |  |

| r5 (only SCS150kHz has 9M BW) |            |         |           |                     |                        |                      |                     |          |  |
|-------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 20                            | PI2 BPSK   | 1       | 1         | 21.15               | 21.21                  | 21.11                | 22.3                | 0        |  |
| 20                            | PI2 BPSK   | 1       | 53        | 21.11               | 21.04                  | 21.01                |                     |          |  |
| 20                            | PI2 BPSK   | 1       | 104       | 21.04               | 21.17                  | 20.91                |                     |          |  |
| 20                            | PI2 BPSK   | 50      | 0         | 21.21               | 21.11                  | 20.95                | 22.3                | 0        |  |
| 20                            | PI2 BPSK   | 50      | 26        | 20.75               | 20.95                  | 20.91                |                     |          |  |
| 20                            | PI2 BPSK   | 50      | 56        | 20.8                | 20.72                  | 20.66                |                     |          |  |
| 20                            | PI2 BPSK   | 100     | 0         | 21.17               | 21.01                  | 20.84                | 22.3                | 0        |  |
| 20                            | QPSK       | 1       | 1         | 21.35               | 21.36                  | 21.32                | 22.3                | 0        |  |
| 20                            | QPSK       | 1       | 53        | 21.18               | 21.17                  | 21.16                |                     |          |  |
| 20                            | QPSK       | 1       | 104       | 21.16               | 21.19                  | 21.08                |                     |          |  |
| 20                            | QPSK       | 50      | 0         | 21.19               | 21.21                  | 21.16                | 22.3                | 0        |  |
| 20                            | QPSK       | 50      | 26        | 21.12               | 21.23                  | 21.11                |                     |          |  |
| 20                            | QPSK       | 50      | 56        | 21.13               | 21.16                  | 21.14                |                     |          |  |
| 20                            | QPSK       | 100     | 0         | 21.2                | 21.22                  | 21.18                | 22.3                | 0        |  |
| 20                            | 16QAM      | 1       | 1         | 21.11               | 21.14                  | 21.12                | 22.3                | 0        |  |
| 20                            | 64QAM      | 1       | 1         | 19.72               | 19.73                  | 20.24                | 21.3                | 1        |  |
| 20                            | 256QAM     | 1       | 1         | 19.06               | 19.99                  | 19.78                | 19.8                | 2.5      |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 15                            | QPSK       | 1       | 1         | 21.19               | 21.11                  | 21.1                 | 22.3                | 0        |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 10                            | QPSK       | 1       | 1         | 21                  | 20.97                  | 20.99                | 22.3                | 0        |  |
| Channel                       |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)               |            |         |           |                     |                        |                      |                     |          |  |
| 5                             | QPSK       | 1       | 1         | 20.93               | 20.88                  | 20.95                | 22.3                | 0        |  |

| r66 (only SCS150kHz has 9M BW) |            |         |           |                     |                        |                      |                     |          |  |
|--------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                |            |         |           |                     |                        |                      |                     |          |  |
| 20                             | PI2 BPSK   | 1       | 1         | 13.84               | 13.73                  | 13.89                | 15                  | 0        |  |
| 20                             | PI2 BPSK   | 1       | 53        | 13.35               | 13.46                  | 13.28                |                     |          |  |
| 20                             | PI2 BPSK   | 1       | 104       | 13.87               | 13.6                   | 13.07                |                     |          |  |
| 20                             | PI2 BPSK   | 50      | 0         | 13.37               | 13.36                  | 13.24                | 15                  | 0        |  |
| 20                             | PI2 BPSK   | 50      | 26        | 13.17               | 13.13                  | 13.12                |                     |          |  |
| 20                             | PI2 BPSK   | 50      | 56        | 13.24               | 13.31                  | 13.26                |                     |          |  |
| 20                             | PI2 BPSK   | 100     | 0         | 13.46               | 13.57                  | 13.13                | 15                  | 0        |  |
| 20                             | QPSK       | 1       | 1         | 14.03               | 14.06                  | 14.07                | 15                  | 0        |  |
| 20                             | QPSK       | 1       | 53        | 13.96               | 14.03                  | 14.01                |                     |          |  |
| 20                             | QPSK       | 1       | 104       | 14.01               | 14                     | 14                   |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 13.26               | 13.34                  | 13.33                | 15                  | 0        |  |
| 20                             | QPSK       | 50      | 26        | 13.87               | 13.82                  | 13.91                |                     |          |  |
| 20                             | QPSK       | 50      | 56        | 13.53               | 13.48                  | 13.42                |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 13.87               | 13.76                  | 13.73                | 15                  | 0        |  |
| 20                             | 16QAM      | 1       | 1         | 13.78               | 13.84                  | 13.83                | 15                  | 0        |  |
| 20                             | 64QAM      | 1       | 1         | 13.02               | 13.16                  | 13.43                | 15                  | 0        |  |
| 20                             | 256QAM     | 1       | 1         | 13.72               | 13.66                  | 13.82                | 15                  | 0        |  |
| Channel                        |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                |            |         |           |                     |                        |                      |                     |          |  |
| 15                             | QPSK       | 1       | 1         | 13.97               | 14.01                  | 14                   | 15                  | 0        |  |
| Channel                        |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                |            |         |           |                     |                        |                      |                     |          |  |
| 10                             | QPSK       | 1       | 1         | 13.87               | 13.93                  | 13.89                | 15                  | 0        |  |
| Channel                        |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                |            |         |           |                     |                        |                      |                     |          |  |
| 5                              | QPSK       | 1       | 1         | 13.75               | 13.82                  | 13.71                | 15                  | 0        |  |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509200                | 518600                   | 528000                 | 19.8                | 0        |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 18.04                 | 18.21                    | 17.95                  |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 17.92                 | 18.08                    | 18.24                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 17.88                 | 17.92                    | 17.98                  | 19.8                | 0        |
| 100             | PI2 BPSK   | 135     | 0         | 18.04                 | 18.11                    | 18.15                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 17.98                 | 17.88                    | 18.25                  |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 17.92                 | 18.19                    | 17.82                  |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 17.99                 | 18.03                    | 17.93                  | 19.8                | 0        |
| 100             | QPSK       | 1       | 1         | 18.62                 | 18.63                    | 18.71                  | 19.8                | 0        |
| 100             | QPSK       | 1       | 137       | 18.35                 | 18.66                    | 18.52                  |                     |          |
| 100             | QPSK       | 1       | 271       | 18.23                 | 18.51                    | 18.22                  |                     |          |
| 100             | QPSK       | 135     | 0         | 18.28                 | 18.39                    | 18.24                  |                     |          |
| 100             | QPSK       | 135     | 69        | 18.52                 | 18.71                    | 18.46                  | 19.8                | 0        |
| 100             | QPSK       | 135     | 138       | 18.28                 | 18.68                    | 18.49                  | 19.8                | 0        |
| 100             | QPSK       | 270     | 0         | 18.35                 | 18.48                    | 18.44                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 18.25                 | 18.52                    | 18.32                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 18.36                 | 18.56                    | 18.37                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 18.32                 | 18.36                    | 18.32                  | 19.8                | 0        |
| Channel         |            |         |           | 508200                | 518600                   | 529000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   | 19.8                | 0        |
| 90              | QPSK       | 1       | 1         | 18.25                 | 18.45                    | 18.81                  |                     |          |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   | 19.8                | 0        |
| 80              | QPSK       | 1       | 1         | 18.26                 | 18.41                    | 18.65                  |                     |          |
| Channel         |            |         |           | 506200                | 518600                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2530                  | 2593                     | 2650                   | 19.8                | 0        |
| 60              | QPSK       | 1       | 1         | 18.22                 | 18.39                    | 18.42                  |                     |          |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2655                   | 19.8                | 0        |
| 50              | QPSK       | 1       | 1         | 18.19                 | 18.44                    | 18.33                  |                     |          |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   | 19.8                | 0        |
| 40              | QPSK       | 1       | 1         | 18.22                 | 18.62                    | 18.56                  |                     |          |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   | 19.8                | 0        |
| 20              | QPSK       | 1       | 1         | 18.19                 | 18.59                    | 18.47                  |                     |          |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 |                     |          |
| Frequency (MHz) |            |         |           | 2540                  | 2593                     | 2645                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 19.73                 | 20.03                    | 19.69                  | 20.9                | 0        |
| 100             | PI/2 BPSK  | 1       | 137       | 19.84                 | 19.99                    | 20.01                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 19.99                 | 20.06                    | 19.69                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 19.71                 | 20.04                    | 20.08                  | 20.9                | 0        |
| 100             | PI/2 BPSK  | 135     | 69        | 19.95                 | 19.78                    | 19.84                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 138       | 19.74                 | 19.84                    | 19.78                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 19.65                 | 19.72                    | 19.61                  | 20.9                | 0        |
| 100             | QPSK       | 1       | 1         | 20.15                 | 20.2                     | 20.19                  | 20.9                | 0        |
| 100             | QPSK       | 1       | 137       | 19.92                 | 20.1                     | 20.16                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.85                 | 20.16                    | 19.84                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.02                 | 20.06                    | 19.96                  | 20.9                | 0        |
| 100             | QPSK       | 135     | 69        | 19.98                 | 20.16                    | 19.99                  |                     |          |
| 100             | QPSK       | 135     | 138       | 19.55                 | 19.95                    | 19.89                  |                     |          |
| 100             | QPSK       | 270     | 0         | 19.82                 | 19.94                    | 19.93                  | 20.9                | 0        |
| 100             | 16QAM      | 1       | 1         | 19.8                  | 19.97                    | 19.94                  | 20.9                | 0        |
| 100             | 64QAM      | 1       | 1         | 19.67                 | 19.69                    | 19.67                  | 20.9                | 0        |
| 100             | 256QAM     | 1       | 1         | 19.56                 | 19.57                    | 19.52                  | 20.9                | 0        |
| Channel         |            |         |           | 508200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 19.93                 | 20.05                    | 20.11                  | 20.9                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 19.87                 | 19.86                    | 20.09                  | 20.9                | 0        |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 19.89                 | 19.93                    | 19.98                  | 20.9                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 19.85                 | 19.86                    | 19.98                  | 20.9                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2616                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.96                 | 20.03                    | 20.06                  | 20.9                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 19.99                 | 20.05                    | 19.97                  | 20.9                | 0        |

## Reduced power level 2 for Head-UAT

| n2 (only SCS150kHz has 5M BW) |            |         |           |                             |                                |                              |             |
|-------------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|-------------|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | MPR<br>(dB) |
| Channel                       |            |         |           | 372000                      | 376000                         | 380000                       |             |
| Frequency (MHz)               |            |         |           | 1860                        | 1880                           | 1900                         |             |
| 20                            | PI/2 BPSK  | 1       | 1         | 13.47                       | 13.5                           | 13.84                        |             |
| 20                            | PI/2 BPSK  | 1       | 53        | 13.53                       | 13.36                          | 13.85                        |             |
| 20                            | PI/2 BPSK  | 1       | 104       | 13.46                       | 13.43                          | 13.53                        |             |
| 20                            | PI/2 BPSK  | 50      | 0         | 13                          | 13.27                          | 13.64                        |             |
| 20                            | PI/2 BPSK  | 50      | 26        | 13.03                       | 13.14                          | 13.58                        |             |
| 20                            | PI/2 BPSK  | 50      | 56        | 12.84                       | 13.35                          | 13.83                        |             |
| 20                            | PI/2 BPSK  | 100     | 0         | 13.06                       | 13.23                          | 13.47                        |             |
| 20                            | QPSK       | 1       | 1         | 13.81                       | 13.85                          | 14.26                        |             |
| 20                            | QPSK       | 1       | 53        | 13.65                       | 14.05                          | 14.1                         |             |
| 20                            | QPSK       | 1       | 104       | 13.87                       | 14.04                          | 14.08                        |             |
| 20                            | QPSK       | 50      | 0         | 13.77                       | 14.14                          | 14.2                         |             |
| 20                            | QPSK       | 50      | 26        | 13.79                       | 14.16                          | 14.24                        |             |
| 20                            | QPSK       | 50      | 56        | 13.86                       | 14.03                          | 14.23                        |             |
| 20                            | QPSK       | 100     | 0         | 13.78                       | 14.22                          | 14.24                        |             |
| 20                            | 16QAM      | 1       | 1         | 13.66                       | 13.82                          | 14.1                         |             |
| 20                            | 64QAM      | 1       | 1         | 13.57                       | 13.59                          | 13.58                        |             |
| 20                            | 256QAM     | 1       | 1         | 13.31                       | 13.52                          | 13.63                        |             |
| Channel                       |            |         |           | 371500                      | 376000                         | 380500                       |             |
| Frequency (MHz)               |            |         |           | 1857.5                      | 1880                           | 1902.5                       |             |
| 15                            | QPSK       | 1       | 1         | 13.5                        | 13.7                           | 13.88                        |             |
| Channel                       |            |         |           | 371000                      | 376000                         | 381000                       |             |
| Frequency (MHz)               |            |         |           | 1855                        | 1880                           | 1905                         |             |
| 10                            | QPSK       | 1       | 1         | 13.34                       | 13.62                          | 13.75                        |             |
| Channel                       |            |         |           | 370500                      | 376000                         | 381500                       |             |
| Frequency (MHz)               |            |         |           | 1852.5                      | 1880                           | 1907.5                       |             |
| 5                             | QPSK       | 1       | 1         | 13.23                       | 13.68                          | 13.61                        |             |

| n5 (only SCS150kHz has 5M BW) |            |         |           |                             |                                |                              |             |
|-------------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|-------------|
| BW (MHz)                      | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | MPR<br>(dB) |
| Channel                       |            |         |           | 166800                      | 167300                         | 167800                       |             |
| Frequency (MHz)               |            |         |           | 834                         | 836.5                          | 839                          |             |
| 20                            | PI/2 BPSK  | 1       | 1         | 17.26                       | 17.22                          | 17.12                        |             |
| 20                            | PI/2 BPSK  | 1       | 53        | 17.12                       | 17.06                          | 17.02                        |             |
| 20                            | PI/2 BPSK  | 1       | 104       | 17.05                       | 17.18                          | 16.92                        |             |
| 20                            | PI/2 BPSK  | 50      | 0         | 17.22                       | 17.12                          | 16.86                        |             |
| 20                            | PI/2 BPSK  | 50      | 26        | 16.76                       | 16.96                          | 16.52                        |             |
| 20                            | PI/2 BPSK  | 50      | 56        | 16.81                       | 16.73                          | 16.67                        |             |
| 20                            | PI/2 BPSK  | 100     | 0         | 17.18                       | 17.02                          | 16.85                        |             |
| 20                            | QPSK       | 1       | 1         | 17.44                       | 17.48                          | 17.45                        |             |
| 20                            | QPSK       | 1       | 53        | 17.32                       | 17.52                          | 17.3                         |             |
| 20                            | QPSK       | 1       | 104       | 17.31                       | 17.34                          | 17.23                        |             |
| 20                            | QPSK       | 50      | 0         | 17.43                       | 17.45                          | 17.4                         |             |
| 20                            | QPSK       | 50      | 26        | 17.37                       | 17.38                          | 17.35                        |             |
| 20                            | QPSK       | 50      | 56        | 17.33                       | 17.34                          | 17.32                        |             |
| 20                            | QPSK       | 100     | 0         | 17.34                       | 17.38                          | 17.35                        |             |
| 20                            | 16QAM      | 1       | 1         | 17.27                       | 17.53                          | 17.31                        |             |
| 20                            | 64QAM      | 1       | 1         | 17.18                       | 17.26                          | 17.14                        |             |
| 20                            | 256QAM     | 1       | 1         | 17.13                       | 17.18                          | 17.14                        |             |
| Channel                       |            |         |           | 166300                      | 167300                         | 168300                       |             |
| Frequency (MHz)               |            |         |           | 831.5                       | 836.5                          | 841.5                        |             |
| 15                            | QPSK       | 1       | 1         | 17.24                       | 17.26                          | 17.25                        |             |
| Channel                       |            |         |           | 165800                      | 167300                         | 168800                       |             |
| Frequency (MHz)               |            |         |           | 829                         | 836.5                          | 844                          |             |
| 10                            | QPSK       | 1       | 1         | 17.15                       | 17.12                          | 17.14                        |             |
| Channel                       |            |         |           | 165300                      | 167300                         | 169300                       |             |
| Frequency (MHz)               |            |         |           | 826.5                       | 836.5                          | 846.5                        |             |
| 5                             | QPSK       | 1       | 1         | 17.08                       | 17.03                          | 17.1                         |             |

| n66 (only SCS190kHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                        |            |         |           | 344000                | 346000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20                             | PI2 BPSK   | 1       | 1         | 13.02                 | 13.11                    | 13.07                  |                     |          |
| 20                             | PI2 BPSK   | 1       | 53        | 12.73                 | 12.84                    | 12.66                  | 14.5                | 0        |
| 20                             | PI2 BPSK   | 1       | 104       | 12.95                 | 12.98                    | 12.45                  |                     |          |
| 20                             | PI2 BPSK   | 50      | 0         | 12.75                 | 12.73                    | 12.62                  |                     |          |
| 20                             | PI2 BPSK   | 50      | 28        | 12.55                 | 12.51                    | 12.5                   | 14.5                | 0        |
| 20                             | PI2 BPSK   | 50      | 56        | 12.62                 | 12.69                    | 12.64                  |                     |          |
| 20                             | PI2 BPSK   | 100     | 0         | 12.84                 | 12.95                    | 12.51                  | 14.5                | 0        |
| 20                             | QPSK       | 1       | 1         | 13.52                 | 13.59                    | 13.53                  |                     |          |
| 20                             | QPSK       | 1       | 53        | 13.45                 | 13.52                    | 13.51                  | 14.5                | 0        |
| 20                             | QPSK       | 1       | 104       | 13.52                 | 13.55                    | 13.48                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 13.02                 | 13.15                    | 13.11                  |                     |          |
| 20                             | QPSK       | 50      | 28        | 13.4                  | 13.48                    | 13.44                  | 14.5                | 0        |
| 20                             | QPSK       | 50      | 56        | 13.12                 | 13.19                    | 13.12                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 13.58                 | 13.41                    | 13.32                  | 14.5                | 0        |
| 20                             | 16QAM      | 1       | 1         | 13.32                 | 13.35                    | 13.31                  | 14.5                | 0        |
| 20                             | 64QAM      | 1       | 1         | 12.69                 | 12.89                    | 12.88                  | 14.5                | 0        |
| 20                             | 256QAM     | 1       | 1         | 13.05                 | 13.25                    | 13.31                  | 14.5                | 0        |
| Channel                        |            |         |           | 343500                | 346000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15                             | QPSK       | 1       | 1         | 13.48                 | 13.49                    | 13.52                  | 14.5                | 0        |
| Channel                        |            |         |           | 343500                | 346000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |
| 10                             | QPSK       | 1       | 1         | 13.33                 | 13.42                    | 13.41                  | 14.5                | 0        |
| Channel                        |            |         |           | 342500                | 346000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |
| 5                              | QPSK       | 1       | 1         | 13.35                 | 13.31                    | 13.3                   | 14.5                | 0        |

| n71 (only SCS190kHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |
|--------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                       | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                        |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20                             | PI2 BPSK   | 1       | 1         | 18.15                 | 18.17                    | 18.05                  |                     |          |
| 20                             | PI2 BPSK   | 1       | 53        | 18.03                 | 18.14                    | 17.98                  | 19.3                | 0        |
| 20                             | PI2 BPSK   | 1       | 104       | 18.02                 | 18.02                    | 17.9                   |                     |          |
| 20                             | PI2 BPSK   | 50      | 0         | 17.69                 | 17.91                    | 17.75                  |                     |          |
| 20                             | PI2 BPSK   | 50      | 28        | 17.62                 | 17.58                    | 17.52                  | 19.3                | 0        |
| 20                             | PI2 BPSK   | 50      | 56        | 17.52                 | 17.45                    | 17.47                  |                     |          |
| 20                             | PI2 BPSK   | 100     | 0         | 17.75                 | 17.57                    | 17.65                  | 19.3                | 0        |
| 20                             | QPSK       | 1       | 1         | 18.36                 | 18.36                    | 18.32                  |                     |          |
| 20                             | QPSK       | 1       | 53        | 18.32                 | 18.34                    | 18.24                  | 19.3                | 0        |
| 20                             | QPSK       | 1       | 104       | 18.18                 | 18.2                     | 17.98                  |                     |          |
| 20                             | QPSK       | 50      | 0         | 17.58                 | 17.8                     | 17.48                  |                     |          |
| 20                             | QPSK       | 50      | 28        | 18.23                 | 18.25                    | 18.21                  | 19.3                | 0        |
| 20                             | QPSK       | 50      | 56        | 17.95                 | 17.96                    | 17.82                  |                     |          |
| 20                             | QPSK       | 100     | 0         | 18.22                 | 18.25                    | 18.21                  | 19.3                | 0        |
| 20                             | 16QAM      | 1       | 1         | 18.18                 | 18.23                    | 18.19                  | 19.3                | 0        |
| 20                             | 64QAM      | 1       | 1         | 18.14                 | 18.21                    | 18.19                  | 19.3                | 0        |
| 20                             | 256QAM     | 1       | 1         | 18.24                 | 18.26                    | 18.18                  | 19.3                | 0        |
| Channel                        |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15                             | QPSK       | 1       | 1         | 18.03                 | 18.03                    | 18.01                  | 19.3                | 0        |
| Channel                        |            |         |           | 133600                | 136100                   | 138500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 668                   | 680.5                    | 693                    |                     |          |
| 10                             | QPSK       | 1       | 1         | 17.99                 | 17.85                    | 17.89                  | 19.3                | 0        |
| Channel                        |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)                |            |         |           | 665.5                 | 680.5                    | 695.5                  |                     |          |
| 5                              | QPSK       | 1       | 1         | 17.9                  | 17.81                    | 17.78                  | 19.3                | 0        |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518000                   | 526000                 | 18.8                | 0        |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 17.07                 | 17.24                    | 16.96                  |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 16.95                 | 17.11                    | 17.27                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 16.91                 | 16.95                    | 17.01                  | 18.8                | 0        |
| 100             | PI2 BPSK   | 135     | 0         | 17.07                 | 17.14                    | 17.18                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 17.01                 | 16.91                    | 17.28                  |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 16.95                 | 17.22                    | 16.85                  |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 17.02                 | 17.06                    | 16.96                  | 18.8                | 0        |
| 100             | QPSK       | 1       | 1         | 17.66                 | 17.66                    | 17.78                  | 18.8                | 0        |
| 100             | QPSK       | 1       | 137       | 17.36                 | 17.66                    | 17.52                  |                     |          |
| 100             | QPSK       | 1       | 271       | 17.28                 | 17.56                    | 17.21                  |                     |          |
| 100             | QPSK       | 135     | 0         | 17.25                 | 17.56                    | 17.53                  |                     |          |
| 100             | QPSK       | 135     | 69        | 17.62                 | 17.76                    | 17.53                  | 18.8                | 0        |
| 100             | QPSK       | 135     | 138       | 17.45                 | 17.62                    | 17.41                  | 18.8                | 0        |
| 100             | QPSK       | 270     | 0         | 17.32                 | 17.56                    | 17.45                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 17.33                 | 17.41                    | 17.26                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 17.39                 | 17.56                    | 17.43                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 17.31                 | 17.33                    | 17.26                  | 18.8                | 0        |
| Channel         |            |         |           | 508200                | 518000                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   | 18.8                | 0        |
| 90              | QPSK       | 1       | 1         | 17.21                 | 17.46                    | 17.82                  |                     |          |
| Channel         |            |         |           | 507200                | 518000                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   | 18.8                | 0        |
| 80              | QPSK       | 1       | 1         | 17.32                 | 17.52                    | 17.41                  |                     |          |
| Channel         |            |         |           | 505200                | 518000                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   | 18.8                | 0        |
| 60              | QPSK       | 1       | 1         | 17.36                 | 17.52                    | 17.33                  |                     |          |
| Channel         |            |         |           | 504200                | 518000                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   | 18.8                | 0        |
| 50              | QPSK       | 1       | 1         | 17.15                 | 17.23                    | 17.31                  |                     |          |
| Channel         |            |         |           | 503200                | 518000                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   | 18.8                | 0        |
| 40              | QPSK       | 1       | 1         | 17.29                 | 17.44                    | 17.41                  |                     |          |
| Channel         |            |         |           | 501200                | 518000                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   | 18.8                | 0        |
| 20              | QPSK       | 1       | 1         | 17.33                 | 17.34                    | 17.21                  |                     |          |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 | 19.9                | 0        |
| Frequency (MHz) |            |         |           | 2540                  | 2593                     | 2640                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 19.97                 | 19.27                    | 19.93                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 19.08                 | 19.23                    | 19.25                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 19.23                 | 19.3                     | 19.93                  | 19.9                | 0        |
| 100             | PI/2 BPSK  | 135     | 0         | 19.95                 | 19.28                    | 19.32                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 19.19                 | 19.02                    | 19.08                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 138       | 19.98                 | 19.08                    | 19.02                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 18.89                 | 18.96                    | 18.85                  | 19.9                | 0        |
| 100             | QPSK       | 1       | 1         | 19.42                 | 19.45                    | 19.44                  | 19.9                | 0        |
| 100             | QPSK       | 1       | 137       | 19.25                 | 19.39                    | 19.41                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.22                 | 19.37                    | 19.3                   |                     |          |
| 100             | QPSK       | 135     | 0         | 19.24                 | 19.28                    | 19.18                  |                     |          |
| 100             | QPSK       | 135     | 69        | 19.26                 | 19.33                    | 19.31                  | 19.9                | 0        |
| 100             | QPSK       | 135     | 138       | 19.08                 | 19.17                    | 19.11                  | 19.9                | 0        |
| 100             | QPSK       | 270     | 0         | 19.09                 | 19.26                    | 19.18                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 19.05                 | 19.22                    | 19.19                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 18.89                 | 18.87                    | 18.62                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 18.75                 | 18.91                    | 18.83                  | 19.9                | 0        |
| Channel         |            |         |           | 508200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 19.08                 | 19.2                     | 19.25                  |                     |          |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 |                     |          |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 19.02                 | 19.01                    | 19.27                  |                     |          |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 |                     |          |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 19.04                 | 19.08                    | 19.16                  | 19.9                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.94                 | 19.01                    | 19.07                  |                     |          |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 |                     |          |
| Frequency (MHz) |            |         |           | 2616                  | 2593                     | 2670                   | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 19.05                 | 19.18                    | 19.12                  |                     |          |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 |                     |          |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 19.08                 | 19.2                     | 19.06                  | 19.9                | 0        |

Reduced power level 3 for Head-UAT

| n2 (only SCS19KHz has 5M BW) |            |         |           |                       |                       |                        |                     |          |   |
|------------------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|---|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |   |
| Channel                      |            |         |           | 372000                | 376000                | 380000                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1860                  | 1880                  | 1900                   |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 1         | 13.47                 | 13.5                  | 13.84                  |                     | 15       | 0 |
| 20                           | PI2 BPSK   | 1       | 53        | 13.53                 | 13.36                 | 13.65                  |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 104       | 13.46                 | 13.43                 | 13.53                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 0         | 13                    | 13.27                 | 13.64                  |                     | 15       | 0 |
| 20                           | PI2 BPSK   | 50      | 28        | 13.03                 | 13.14                 | 13.58                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 56        | 12.84                 | 13.35                 | 13.63                  |                     |          |   |
| 20                           | PI2 BPSK   | 100     | 0         | 13.06                 | 13.23                 | 13.47                  |                     | 15       | 0 |
| 20                           | QPSK       | 1       | 1         | 13.61                 | 13.95                 | 14.28                  |                     | 15       | 0 |
| 20                           | QPSK       | 1       | 53        | 13.65                 | 14.05                 | 14.1                   |                     |          |   |
| 20                           | QPSK       | 1       | 104       | 13.87                 | 14.04                 | 14.08                  |                     |          |   |
| 20                           | QPSK       | 50      | 0         | 13.77                 | 14.14                 | 14.2                   |                     | 15       | 0 |
| 20                           | QPSK       | 50      | 28        | 13.79                 | 14.16                 | 14.24                  |                     |          |   |
| 20                           | QPSK       | 50      | 56        | 13.86                 | 14.03                 | 14.23                  |                     |          |   |
| 20                           | QPSK       | 100     | 0         | 13.76                 | 14.22                 | 14.24                  |                     | 15       | 0 |
| 20                           | 16QAM      | 1       | 1         | 13.68                 | 13.82                 | 14.1                   |                     | 15       | 0 |
| 20                           | 64QAM      | 1       | 1         | 13.57                 | 13.59                 | 13.58                  |                     | 15       | 0 |
| 20                           | 256QAM     | 1       | 1         | 13.31                 | 13.52                 | 13.63                  |                     | 15       | 0 |
| Channel                      |            |         |           | 371500                | 376000                | 380500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1857.5                | 1880                  | 1902.5                 |                     |          |   |
| 15                           | QPSK       | 1       | 1         | 13.5                  | 13.7                  | 13.89                  |                     | 15       | 0 |
| Channel                      |            |         |           | 371000                | 376000                | 381000                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1855                  | 1880                  | 1905                   |                     |          |   |
| 10                           | QPSK       | 1       | 1         | 13.34                 | 13.62                 | 13.75                  |                     | 15       | 0 |
| Channel                      |            |         |           | 370500                | 376000                | 381500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1852.5                | 1880                  | 1907.5                 |                     |          |   |
| 5                            | QPSK       | 1       | 1         | 13.23                 | 13.68                 | 13.61                  |                     | 15       | 0 |

| n5 (only SCS19KHz has 5M BW) |            |         |           |                       |                       |                        |                     |          |   |
|------------------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|---|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |   |
| Channel                      |            |         |           | 166800                | 167300                | 167800                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 834                   | 836.5                 | 839                    |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 1         | 17.26                 | 17.22                 | 17.12                  |                     | 18.3     | 0 |
| 20                           | PI2 BPSK   | 1       | 53        | 17.12                 | 17.06                 | 17.02                  |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 104       | 17.05                 | 17.18                 | 16.92                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 0         | 17.22                 | 17.12                 | 16.86                  |                     | 18.3     | 0 |
| 20                           | PI2 BPSK   | 50      | 28        | 16.76                 | 16.98                 | 16.92                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 56        | 16.81                 | 16.73                 | 16.67                  |                     |          |   |
| 20                           | PI2 BPSK   | 100     | 0         | 17.18                 | 17.02                 | 16.85                  |                     | 18.3     | 0 |
| 20                           | QPSK       | 1       | 1         | 17.44                 | 17.46                 | 17.45                  |                     | 18.3     | 0 |
| 20                           | QPSK       | 1       | 53        | 17.32                 | 17.32                 | 17.3                   |                     |          |   |
| 20                           | QPSK       | 1       | 104       | 17.31                 | 17.34                 | 17.23                  |                     |          |   |
| 20                           | QPSK       | 50      | 0         | 17.43                 | 17.45                 | 17.4                   |                     | 18.3     | 0 |
| 20                           | QPSK       | 50      | 28        | 17.37                 | 17.38                 | 17.35                  |                     |          |   |
| 20                           | QPSK       | 50      | 56        | 17.33                 | 17.34                 | 17.32                  |                     |          |   |
| 20                           | QPSK       | 100     | 0         | 17.34                 | 17.36                 | 17.35                  |                     | 18.3     | 0 |
| 20                           | 16QAM      | 1       | 1         | 17.27                 | 17.33                 | 17.31                  |                     | 18.3     | 0 |
| 20                           | 64QAM      | 1       | 1         | 17.18                 | 17.26                 | 17.14                  |                     | 18.3     | 0 |
| 20                           | 256QAM     | 1       | 1         | 17.13                 | 17.18                 | 17.14                  |                     | 18.3     | 0 |
| Channel                      |            |         |           | 166300                | 167300                | 168300                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 831.5                 | 836.5                 | 841.5                  |                     |          |   |
| 15                           | QPSK       | 1       | 1         | 17.24                 | 17.26                 | 17.25                  |                     | 18.3     | 0 |
| Channel                      |            |         |           | 165800                | 167300                | 168800                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 829                   | 836.5                 | 844                    |                     |          |   |
| 10                           | QPSK       | 1       | 1         | 17.15                 | 17.12                 | 17.14                  |                     | 18.3     | 0 |
| Channel                      |            |         |           | 165300                | 167300                | 169300                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 826.5                 | 836.5                 | 846.5                  |                     |          |   |
| 5                            | QPSK       | 1       | 1         | 17.08                 | 17.03                 | 17.1                   |                     | 18.3     | 0 |

| n8 (only SCS19KHz has 5M BW) |            |         |           |                       |                       |                        |                     |          |   |
|------------------------------|------------|---------|-----------|-----------------------|-----------------------|------------------------|---------------------|----------|---|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mid Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |   |
| Channel                      |            |         |           | 344800                | 348000                | 354500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1720                  | 1745                  | 1770                   |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 1         | 13.64                 | 13.73                 | 13.69                  |                     | 15       | 0 |
| 20                           | PI2 BPSK   | 1       | 53        | 13.35                 | 13.46                 | 13.28                  |                     |          |   |
| 20                           | PI2 BPSK   | 1       | 104       | 13.57                 | 13.6                  | 13.07                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 0         | 13.37                 | 13.35                 | 13.24                  |                     | 15       | 0 |
| 20                           | PI2 BPSK   | 50      | 28        | 13.17                 | 13.13                 | 13.12                  |                     |          |   |
| 20                           | PI2 BPSK   | 50      | 56        | 13.24                 | 13.31                 | 13.26                  |                     |          |   |
| 20                           | PI2 BPSK   | 100     | 0         | 13.46                 | 13.57                 | 13.13                  |                     | 15       | 0 |
| 20                           | QPSK       | 1       | 1         | 14.03                 | 14.06                 | 14.07                  |                     | 15       | 0 |
| 20                           | QPSK       | 1       | 53        | 13.96                 | 14.03                 | 14.01                  |                     |          |   |
| 20                           | QPSK       | 1       | 104       | 14.01                 | 14                    | 14                     |                     |          |   |
| 20                           | QPSK       | 50      | 0         | 13.26                 | 13.34                 | 13.33                  |                     | 15       | 0 |
| 20                           | QPSK       | 50      | 28        | 13.87                 | 13.92                 | 13.91                  |                     |          |   |
| 20                           | QPSK       | 50      | 56        | 13.53                 | 13.48                 | 13.42                  |                     |          |   |
| 20                           | QPSK       | 100     | 0         | 13.87                 | 13.75                 | 13.72                  |                     | 15       | 0 |
| 20                           | 16QAM      | 1       | 1         | 13.78                 | 13.84                 | 13.83                  |                     | 15       | 0 |
| 20                           | 64QAM      | 1       | 1         | 13.02                 | 13.16                 | 13.43                  |                     | 15       | 0 |
| 20                           | 256QAM     | 1       | 1         | 13.72                 | 13.65                 | 13.82                  |                     | 15       | 0 |
| Channel                      |            |         |           | 343800                | 348000                | 354500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1717.5                | 1745                  | 1772.5                 |                     |          |   |
| 15                           | QPSK       | 1       | 1         | 13.97                 | 14.01                 | 14                     |                     | 15       | 0 |
| Channel                      |            |         |           | 343300                | 348000                | 354500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1715                  | 1745                  | 1775                   |                     |          |   |
| 10                           | QPSK       | 1       | 1         | 13.87                 | 13.93                 | 13.89                  |                     | 15       | 0 |
| Channel                      |            |         |           | 342800                | 348000                | 355500                 | Tune-up limit (dBm) | MPR (dB) |   |
| Frequency (MHz)              |            |         |           | 1712.5                | 1745                  | 1777.5                 |                     |          |   |
| 5                            | QPSK       | 1       | 1         | 13.75                 | 13.82                 | 13.71                  |                     | 15       | 0 |

| n71 (only SC519KHz has 9MBW) |            |         |           |                       |                         |                        |                     |          |
|------------------------------|------------|---------|-----------|-----------------------|-------------------------|------------------------|---------------------|----------|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. 1 Freq. | Power Midst Ch. 1 Freq. | Power High Ch. 1 Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                      |            |         |           | 134600                | 136100                  | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 673                   | 680.5                   | 688                    |                     |          |
| 20                           | PI2 BPSK   | 1       | 1         | 18.15                 | 18.17                   | 18.05                  | 19.3                | 0        |
| 20                           | PI2 BPSK   | 1       | 53        | 18.03                 | 18.14                   | 17.96                  |                     |          |
| 20                           | PI2 BPSK   | 1       | 104       | 18.02                 | 18.02                   | 17.9                   |                     |          |
| 20                           | PI2 BPSK   | 50      | 0         | 17.69                 | 17.91                   | 17.75                  | 19.3                | 0        |
| 20                           | PI2 BPSK   | 50      | 28        | 17.62                 | 17.88                   | 17.52                  |                     |          |
| 20                           | PI2 BPSK   | 50      | 56        | 17.52                 | 17.45                   | 17.47                  |                     |          |
| 20                           | PI2 BPSK   | 100     | 0         | 17.75                 | 17.67                   | 17.65                  | 19.3                | 0        |
| 20                           | QPSK       | 1       | 1         | 18.36                 | 18.26                   | 18.32                  | 19.3                | 0        |
| 20                           | QPSK       | 1       | 53        | 18.32                 | 18.34                   | 18.24                  |                     |          |
| 20                           | QPSK       | 1       | 104       | 18.18                 | 18.2                    | 17.98                  |                     |          |
| 20                           | QPSK       | 50      | 0         | 17.58                 | 17.6                    | 17.48                  | 19.3                | 0        |
| 20                           | QPSK       | 50      | 28        | 18.23                 | 18.26                   | 18.21                  |                     |          |
| 20                           | QPSK       | 50      | 56        | 17.95                 | 17.96                   | 17.82                  |                     |          |
| 20                           | QPSK       | 100     | 0         | 18.22                 | 18.25                   | 18.21                  | 19.3                | 0        |
| 20                           | 16QAM      | 1       | 1         | 18.18                 | 18.23                   | 18.18                  | 19.3                | 0        |
| 20                           | 64QAM      | 1       | 1         | 18.14                 | 18.21                   | 18.18                  | 19.3                | 0        |
| 20                           | 256QAM     | 1       | 1         | 18.24                 | 18.26                   | 18.18                  | 19.3                | 0        |
| Channel                      |            |         |           | 134100                | 136100                  | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 670.5                 | 680.5                   | 690.5                  |                     |          |
| 15                           | QPSK       | 1       | 1         | 18.03                 | 18.03                   | 18.01                  | 19.3                | 0        |
| Channel                      |            |         |           | 135000                | 136100                  | 137000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 688                   | 680.5                   | 693                    |                     |          |
| 10                           | QPSK       | 1       | 1         | 17.99                 | 17.85                   | 17.89                  | 19.3                | 0        |
| Channel                      |            |         |           | 133100                | 136100                  | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 685.5                 | 680.5                   | 685.5                  |                     |          |
| 5                            | QPSK       | 1       | 1         | 17.9                  | 17.81                   | 17.78                  | 19.3                | 0        |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509200                | 518600                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 18.04                 | 18.21                    | 17.95                  | 19.8                | 0        |
| 100             | PV2 BPSK   | 1       | 137       | 17.92                 | 18.08                    | 18.24                  |                     |          |
| 100             | PV2 BPSK   | 1       | 271       | 17.86                 | 17.92                    | 17.98                  |                     |          |
| 100             | PV2 BPSK   | 135     | 0         | 18.04                 | 18.11                    | 18.15                  | 19.8                | 0        |
| 100             | PV2 BPSK   | 135     | 69        | 17.98                 | 17.88                    | 18.25                  |                     |          |
| 100             | PV2 BPSK   | 135     | 138       | 17.92                 | 18.19                    | 17.82                  |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 17.98                 | 18.03                    | 17.93                  | 19.8                | 0        |
| 100             | QPSK       | 1       | 1         | 18.62                 | 18.63                    | 18.71                  | 19.8                | 0        |
| 100             | QPSK       | 1       | 137       | 18.35                 | 18.66                    | 18.52                  |                     |          |
| 100             | QPSK       | 1       | 271       | 18.23                 | 18.51                    | 18.22                  |                     |          |
| 100             | QPSK       | 135     | 0         | 18.28                 | 18.39                    | 18.24                  | 19.8                | 0        |
| 100             | QPSK       | 135     | 69        | 18.52                 | 18.71                    | 18.46                  |                     |          |
| 100             | QPSK       | 135     | 138       | 18.28                 | 18.68                    | 18.49                  |                     |          |
| 100             | QPSK       | 270     | 0         | 18.35                 | 18.48                    | 18.44                  | 19.8                | 0        |
| 100             | 16QAM      | 1       | 1         | 18.25                 | 18.52                    | 18.32                  | 19.8                | 0        |
| 100             | 64QAM      | 1       | 1         | 18.36                 | 18.56                    | 18.37                  | 19.8                | 0        |
| 100             | 256QAM     | 1       | 1         | 18.32                 | 18.36                    | 18.32                  | 19.8                | 0        |
| Channel         |            |         |           | 509200                | 518600                   | 528000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 18.25                 | 18.45                    | 18.81                  | 19.8                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2660                   |                     |          |
| 80              | QPSK       | 1       | 1         | 18.26                 | 18.41                    | 18.65                  | 19.8                | 0        |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 18.22                 | 18.39                    | 18.42                  | 19.8                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.19                 | 18.44                    | 18.33                  | 19.8                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 18.22                 | 18.62                    | 18.56                  | 19.8                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 18.19                 | 18.59                    | 18.47                  | 19.8                | 0        |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 |                     |          |
| Frequency (MHz) |            |         |           | 2540                  | 2593                     | 2645                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 19.73                 | 20.03                    | 19.69                  | 20.9                | 0        |
| 100             | PI/2 BPSK  | 1       | 137       | 19.84                 | 19.99                    | 20.01                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 19.99                 | 20.06                    | 19.69                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 0         | 19.71                 | 20.04                    | 20.08                  | 20.9                | 0        |
| 100             | PI/2 BPSK  | 135     | 69        | 19.95                 | 19.78                    | 19.84                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 138       | 19.74                 | 19.84                    | 19.78                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 19.65                 | 19.72                    | 19.61                  | 20.9                | 0        |
| 100             | QPSK       | 1       | 1         | 20.15                 | 20.2                     | 20.19                  | 20.9                | 0        |
| 100             | QPSK       | 1       | 137       | 19.92                 | 20.1                     | 20.16                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.85                 | 20.16                    | 19.84                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.02                 | 20.06                    | 19.96                  | 20.9                | 0        |
| 100             | QPSK       | 135     | 69        | 19.98                 | 20.16                    | 19.99                  |                     |          |
| 100             | QPSK       | 135     | 138       | 19.55                 | 19.95                    | 19.89                  |                     |          |
| 100             | QPSK       | 270     | 0         | 19.82                 | 19.94                    | 19.93                  | 20.9                | 0        |
| 100             | 16QAM      | 1       | 1         | 19.8                  | 19.97                    | 19.94                  | 20.9                | 0        |
| 100             | 64QAM      | 1       | 1         | 19.67                 | 19.69                    | 19.67                  | 20.9                | 0        |
| 100             | 256QAM     | 1       | 1         | 19.56                 | 19.57                    | 19.52                  | 20.9                | 0        |
| Channel         |            |         |           | 508200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 19.93                 | 20.05                    | 20.11                  | 20.9                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 19.87                 | 19.86                    | 20.09                  | 20.9                | 0        |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 19.89                 | 19.93                    | 19.98                  | 20.9                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 19.85                 | 19.86                    | 19.98                  | 20.9                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2616                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.96                 | 20.03                    | 20.06                  | 20.9                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 19.99                 | 20.05                    | 19.97                  | 20.9                | 0        |

Reduced power for Hotspot on-UAT

| n2 (only SCS19KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1880                  | 1880                     | 1900                   |                     |          |  |
| 20                           | P12 BPSK   | 1       | 1         | 15.03                 | 15.06                    | 15.4                   | 16.5                | 0        |  |
| 20                           | P12 BPSK   | 1       | 53        | 15.09                 | 14.92                    | 15.21                  |                     |          |  |
| 20                           | P12 BPSK   | 1       | 104       | 15.02                 | 14.99                    | 15.09                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 0         | 14.56                 | 14.83                    | 15.2                   | 16.5                | 0        |  |
| 20                           | P12 BPSK   | 50      | 28        | 14.59                 | 14.7                     | 15.14                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 56        | 14.4                  | 14.91                    | 15.19                  |                     |          |  |
| 20                           | P12 BPSK   | 100     | 0         | 14.62                 | 14.79                    | 15.03                  | 16.5                | 0        |  |
| 20                           | QPSK       | 1       | 1         | 15.12                 | 15.36                    | 15.59                  | 16.5                | 0        |  |
| 20                           | QPSK       | 1       | 53        | 14.96                 | 15.38                    | 15.41                  |                     |          |  |
| 20                           | QPSK       | 1       | 104       | 15.18                 | 15.37                    | 15.39                  |                     |          |  |
| 20                           | QPSK       | 50      | 0         | 15.08                 | 15.47                    | 15.61                  | 16.5                | 0        |  |
| 20                           | QPSK       | 50      | 28        | 15.1                  | 15.47                    | 15.55                  |                     |          |  |
| 20                           | QPSK       | 50      | 56        | 15.17                 | 15.36                    | 15.54                  |                     |          |  |
| 20                           | QPSK       | 100     | 0         | 15.09                 | 15.54                    | 15.55                  | 16.5                | 0        |  |
| 20                           | 16QAM      | 1       | 1         | 15.11                 | 15.25                    | 15.53                  | 16.5                | 0        |  |
| 20                           | 64QAM      | 1       | 1         | 14.98                 | 15.02                    | 15                     | 16.5                | 0        |  |
| 20                           | 256QAM     | 1       | 1         | 14.73                 | 14.95                    | 15.05                  | 16.5                | 0        |  |
| Channel                      |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1887.5                | 1880                     | 1902.5                 |                     |          |  |
| 15                           | QPSK       | 1       | 1         | 14.9                  | 15.11                    | 15.32                  | 16.5                | 0        |  |
| Channel                      |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1885                  | 1880                     | 1905                   |                     |          |  |
| 10                           | QPSK       | 1       | 1         | 14.74                 | 15.07                    | 15.18                  | 16.5                | 0        |  |
| Channel                      |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1882.5                | 1880                     | 1907.5                 |                     |          |  |
| 5                            | QPSK       | 1       | 1         | 14.63                 | 15.11                    | 15.06                  | 16.5                | 0        |  |

| n5 (only SCS19KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 166800                | 167300                   | 167800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 834                   | 836.5                    | 839                    |                     |          |  |
| 20                           | P12 BPSK   | 1       | 1         | 17.18                 | 17.14                    | 17.04                  | 18.3                | 0        |  |
| 20                           | P12 BPSK   | 1       | 53        | 17.04                 | 16.97                    | 16.84                  |                     |          |  |
| 20                           | P12 BPSK   | 1       | 104       | 16.97                 | 17.1                     | 16.84                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 0         | 17.14                 | 17.04                    | 16.78                  | 18.3                | 0        |  |
| 20                           | P12 BPSK   | 50      | 28        | 16.88                 | 16.88                    | 16.44                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 56        | 16.73                 | 16.65                    | 16.59                  |                     |          |  |
| 20                           | P12 BPSK   | 100     | 0         | 17.1                  | 16.94                    | 16.77                  | 18.3                | 0        |  |
| 20                           | QPSK       | 1       | 1         | 17.21                 | 17.42                    | 17.38                  | 18.3                | 0        |  |
| 20                           | QPSK       | 1       | 53        | 17.24                 | 17.23                    | 17.22                  |                     |          |  |
| 20                           | QPSK       | 1       | 104       | 17.22                 | 17.25                    | 17.14                  |                     |          |  |
| 20                           | QPSK       | 50      | 0         | 17.25                 | 17.27                    | 17.22                  | 18.3                | 0        |  |
| 20                           | QPSK       | 50      | 28        | 17.18                 | 17.23                    | 17.17                  |                     |          |  |
| 20                           | QPSK       | 50      | 56        | 17.19                 | 17.22                    | 17.2                   |                     |          |  |
| 20                           | QPSK       | 100     | 0         | 17.26                 | 17.28                    | 17.25                  | 18.3                | 0        |  |
| 20                           | 16QAM      | 1       | 1         | 17.11                 | 17.14                    | 17.12                  | 18.3                | 0        |  |
| 20                           | 64QAM      | 1       | 1         | 17.12                 | 17.13                    | 17.09                  | 18.3                | 0        |  |
| 20                           | 256QAM     | 1       | 1         | 17.05                 | 17.06                    | 17.01                  | 18.3                | 0        |  |
| Channel                      |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |          |  |
| 15                           | QPSK       | 1       | 1         | 17.19                 | 17.11                    | 17.1                   | 18.3                | 0        |  |
| Channel                      |            |         |           | 165800                | 167300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10                           | QPSK       | 1       | 1         | 17                    | 16.97                    | 16.99                  | 18.3                | 0        |  |
| Channel                      |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |          |  |
| 5                            | QPSK       | 1       | 1         | 16.93                 | 16.88                    | 16.95                  | 18.3                | 0        |  |

| n8 (only SCS19KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                      |            |         |           | 344800                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20                           | P12 BPSK   | 1       | 1         | 15.9                  | 15.99                    | 15.65                  | 17                  | 0        |  |
| 20                           | P12 BPSK   | 1       | 53        | 15.81                 | 15.72                    | 15.54                  |                     |          |  |
| 20                           | P12 BPSK   | 1       | 104       | 15.83                 | 15.86                    | 15.33                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 0         | 15.83                 | 15.61                    | 15.5                   | 17                  | 0        |  |
| 20                           | P12 BPSK   | 50      | 28        | 15.43                 | 15.39                    | 15.38                  |                     |          |  |
| 20                           | P12 BPSK   | 50      | 56        | 15.5                  | 15.57                    | 15.52                  |                     |          |  |
| 20                           | P12 BPSK   | 100     | 0         | 15.72                 | 15.83                    | 15.39                  | 17                  | 0        |  |
| 20                           | QPSK       | 1       | 1         | 15.96                 | 15.95                    | 16                     | 17                  | 0        |  |
| 20                           | QPSK       | 1       | 53        | 15.99                 | 15.96                    | 15.94                  |                     |          |  |
| 20                           | QPSK       | 1       | 104       | 15.94                 | 15.93                    | 15.93                  |                     |          |  |
| 20                           | QPSK       | 50      | 0         | 15.26                 | 15.36                    | 15.29                  | 17                  | 0        |  |
| 20                           | QPSK       | 50      | 28        | 15.8                  | 15.83                    | 15.84                  |                     |          |  |
| 20                           | QPSK       | 50      | 56        | 15.48                 | 15.41                    | 15.35                  |                     |          |  |
| 20                           | QPSK       | 100     | 0         | 15.8                  | 15.86                    | 15.68                  | 17                  | 0        |  |
| 20                           | 16QAM      | 1       | 1         | 15.71                 | 15.77                    | 15.76                  | 17                  | 0        |  |
| 20                           | 64QAM      | 1       | 1         | 14.95                 | 15.09                    | 15.36                  | 17                  | 0        |  |
| 20                           | 256QAM     | 1       | 1         | 15.85                 | 15.58                    | 15.75                  | 17                  | 0        |  |
| Channel                      |            |         |           | 343800                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15                           | QPSK       | 1       | 1         | 15.9                  | 15.94                    | 15.91                  | 17                  | 0        |  |
| Channel                      |            |         |           | 343300                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10                           | QPSK       | 1       | 1         | 15.8                  | 15.86                    | 15.78                  | 17                  | 0        |  |
| Channel                      |            |         |           | 342800                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5                            | QPSK       | 1       | 1         | 15.68                 | 15.75                    | 15.64                  | 17                  | 0        |  |

| n71 (only SC519KHz has 9MBW) |            |         |           |                       |                          |                        |                     |          |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW (MHz)                     | Modulation | RB Size | RB Offset | Power Low Ch. 1 Freq. | Power Midpt. Ch. 1 Freq. | Power High Ch. 1 Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                      |            |         |           | 134600                | 136100                   | 137600                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 673                   | 680.5                    | 688                    |                     |          |
| 20                           | PI2 BPSK   | 1       | 1         | 18.15                 | 18.17                    | 18.05                  | 19.3                | 0        |
| 20                           | PI2 BPSK   | 1       | 53        | 18.03                 | 18.14                    | 17.96                  |                     |          |
| 20                           | PI2 BPSK   | 1       | 104       | 18.02                 | 18.02                    | 17.9                   |                     |          |
| 20                           | PI2 BPSK   | 50      | 0         | 17.69                 | 17.91                    | 17.75                  | 19.3                | 0        |
| 20                           | PI2 BPSK   | 50      | 28        | 17.62                 | 17.88                    | 17.52                  |                     |          |
| 20                           | PI2 BPSK   | 50      | 56        | 17.52                 | 17.45                    | 17.47                  |                     |          |
| 20                           | PI2 BPSK   | 100     | 0         | 17.75                 | 17.87                    | 17.65                  | 19.3                | 0        |
| 20                           | QPSK       | 1       | 1         | 18.36                 | 18.26                    | 18.32                  | 19.3                | 0        |
| 20                           | QPSK       | 1       | 53        | 18.32                 | 18.34                    | 18.24                  |                     |          |
| 20                           | QPSK       | 1       | 104       | 18.18                 | 18.2                     | 17.98                  |                     |          |
| 20                           | QPSK       | 50      | 0         | 17.58                 | 17.6                     | 17.48                  | 19.3                | 0        |
| 20                           | QPSK       | 50      | 28        | 18.23                 | 18.26                    | 18.21                  |                     |          |
| 20                           | QPSK       | 50      | 56        | 17.95                 | 17.96                    | 17.82                  |                     |          |
| 20                           | QPSK       | 100     | 0         | 18.22                 | 18.25                    | 18.21                  | 19.3                | 0        |
| 20                           | 16QAM      | 1       | 1         | 18.18                 | 18.23                    | 18.18                  | 19.3                | 0        |
| 20                           | 64QAM      | 1       | 1         | 18.14                 | 18.21                    | 18.18                  | 19.3                | 0        |
| 20                           | 256QAM     | 1       | 1         | 18.24                 | 18.26                    | 18.18                  | 19.3                | 1        |
| Channel                      |            |         |           | 134100                | 136100                   | 138100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |          |
| 15                           | QPSK       | 1       | 1         | 18.03                 | 18.03                    | 18.01                  | 19.3                | 0        |
| Channel                      |            |         |           | 135000                | 136100                   | 137000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 688                   | 680.5                    | 693                    |                     |          |
| 10                           | QPSK       | 1       | 1         | 17.99                 | 17.85                    | 17.89                  | 19.3                | 0        |
| Channel                      |            |         |           | 133100                | 136100                   | 139100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 685.5                 | 680.5                    | 685.5                  |                     |          |
| 5                            | QPSK       | 1       | 1         | 17.9                  | 17.81                    | 17.78                  | 19.3                | 0        |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518000                   | 526000                 | 18.8                | 0        |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 17.07                 | 17.24                    | 16.96                  |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 16.95                 | 17.11                    | 17.27                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 16.91                 | 16.95                    | 17.01                  | 18.8                | 0        |
| 100             | PI2 BPSK   | 135     | 0         | 17.07                 | 17.14                    | 17.18                  |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 17.01                 | 16.91                    | 17.28                  |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 16.95                 | 17.22                    | 16.85                  |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 17.02                 | 17.06                    | 16.96                  | 18.8                | 0        |
| 100             | QPSK       | 1       | 1         | 17.66                 | 17.66                    | 17.78                  | 18.8                | 0        |
| 100             | QPSK       | 1       | 137       | 17.36                 | 17.66                    | 17.52                  |                     |          |
| 100             | QPSK       | 1       | 271       | 17.28                 | 17.56                    | 17.21                  |                     |          |
| 100             | QPSK       | 135     | 0         | 17.25                 | 17.56                    | 17.53                  |                     |          |
| 100             | QPSK       | 135     | 69        | 17.62                 | 17.76                    | 17.53                  | 18.8                | 0        |
| 100             | QPSK       | 135     | 138       | 17.45                 | 17.62                    | 17.41                  | 18.8                | 0        |
| 100             | QPSK       | 270     | 0         | 17.32                 | 17.56                    | 17.45                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 17.33                 | 17.41                    | 17.26                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 17.39                 | 17.56                    | 17.43                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 17.31                 | 17.33                    | 17.26                  | 18.8                | 0        |
| Channel         |            |         |           | 508200                | 518000                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   | 18.8                | 0        |
| 90              | QPSK       | 1       | 1         | 17.21                 | 17.46                    | 17.82                  |                     |          |
| Channel         |            |         |           | 507200                | 518000                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   | 18.8                | 0        |
| 80              | QPSK       | 1       | 1         | 17.32                 | 17.52                    | 17.41                  |                     |          |
| Channel         |            |         |           | 505200                | 518000                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   | 18.8                | 0        |
| 60              | QPSK       | 1       | 1         | 17.36                 | 17.52                    | 17.33                  |                     |          |
| Channel         |            |         |           | 504200                | 518000                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   | 18.8                | 0        |
| 50              | QPSK       | 1       | 1         | 17.15                 | 17.23                    | 17.31                  |                     |          |
| Channel         |            |         |           | 503200                | 518000                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   | 18.8                | 0        |
| 40              | QPSK       | 1       | 1         | 17.29                 | 17.44                    | 17.41                  |                     |          |
| Channel         |            |         |           | 501200                | 518000                   | 535000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   | 18.8                | 0        |
| 20              | QPSK       | 1       | 1         | 17.33                 | 17.34                    | 17.21                  |                     |          |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 | 19.9                | 0        |
| Frequency (MHz) |            |         |           | 2540                  | 2593                     | 2640                   |                     |          |
| 100             | PI/2 BPSK  | 1       | 1         | 19.97                 | 19.27                    | 19.93                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 137       | 19.08                 | 19.23                    | 19.25                  |                     |          |
| 100             | PI/2 BPSK  | 1       | 271       | 19.23                 | 19.3                     | 19.93                  | 19.9                | 0        |
| 100             | PI/2 BPSK  | 135     | 0         | 19.95                 | 19.28                    | 19.32                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 69        | 19.19                 | 19.02                    | 19.08                  |                     |          |
| 100             | PI/2 BPSK  | 135     | 138       | 19.98                 | 19.08                    | 19.02                  |                     |          |
| 100             | PI/2 BPSK  | 270     | 0         | 18.89                 | 18.96                    | 18.85                  | 19.9                | 0        |
| 100             | QPSK       | 1       | 1         | 19.42                 | 19.45                    | 19.44                  | 19.9                | 0        |
| 100             | QPSK       | 1       | 137       | 19.25                 | 19.39                    | 19.41                  |                     |          |
| 100             | QPSK       | 1       | 271       | 19.22                 | 19.37                    | 19.3                   |                     |          |
| 100             | QPSK       | 135     | 0         | 19.24                 | 19.28                    | 19.18                  |                     |          |
| 100             | QPSK       | 135     | 69        | 19.26                 | 19.33                    | 19.31                  | 19.9                | 0        |
| 100             | QPSK       | 135     | 138       | 19.08                 | 19.17                    | 19.11                  | 19.9                | 0        |
| 100             | QPSK       | 270     | 0         | 19.09                 | 19.26                    | 19.18                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 19.05                 | 19.22                    | 19.19                  |                     |          |
| 100             | 64QAM      | 1       | 1         | 18.89                 | 18.87                    | 18.62                  |                     |          |
| 100             | 256QAM     | 1       | 1         | 18.75                 | 18.91                    | 18.83                  | 19.9                | 0        |
| Channel         |            |         |           | 508200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 19.08                 | 19.2                     | 19.25                  |                     |          |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 |                     |          |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   | Tune-up limit (dBm) | MPR (dB) |
| 80              | QPSK       | 1       | 1         | 19.02                 | 19.01                    | 19.27                  |                     |          |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 |                     |          |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 19.04                 | 19.08                    | 19.16                  | 19.9                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.94                 | 19.01                    | 19.07                  |                     |          |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 |                     |          |
| Frequency (MHz) |            |         |           | 2616                  | 2593                     | 2670                   | Tune-up limit (dBm) | MPR (dB) |
| 40              | QPSK       | 1       | 1         | 19.05                 | 19.18                    | 19.12                  |                     |          |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 |                     |          |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 19.08                 | 19.2                     | 19.06                  | 19.9                | 0        |

| n2 (only SCS19KHz has 5M BW) |            |         |           |                      |                         |                       |                     |          |
|------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. [Freq] | Power Middle Ch. [Freq] | Power High Ch. [Freq] | Tune-up limit (dBm) | MPR (dB) |
| Channel                      |            |         |           | 37000                | 37600                   | 38000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 1860                 | 1880                    | 1900                  |                     |          |
| 20                           | PI2 BPSK   | 1       | 1         | 22.39                | 22.58                   | 22.88                 | 24.3                | 0        |
| 20                           | PI2 BPSK   | 1       | 53        | 22.32                | 22.4                    | 22.69                 |                     |          |
| 20                           | PI2 BPSK   | 1       | 104       | 22.16                | 22.36                   | 22.39                 |                     |          |
| 20                           | PI2 BPSK   | 50      | 0         | 22.24                | 22.50                   | 22.68                 | 24.3                | 0        |
| 20                           | PI2 BPSK   | 50      | 28        | 22.19                | 22.13                   | 22.67                 |                     |          |
| 20                           | PI2 BPSK   | 50      | 56        | 22.28                | 22.32                   | 22.85                 |                     |          |
| 20                           | PI2 BPSK   | 100     | 0         | 22.33                | 22.45                   | 22.84                 | 24.3                | 0        |
| 20                           | QPSK       | 1       | 1         | 22.55                | 22.78                   | 23.03                 | 24.3                | 0        |
| 20                           | QPSK       | 1       | 53        | 22.38                | 22.74                   | 22.84                 |                     |          |
| 20                           | QPSK       | 1       | 104       | 22.53                | 22.75                   | 22.87                 |                     |          |
| 20                           | QPSK       | 50      | 0         | 21.45                | 21.77                   | 22.03                 | 24.3                | 0        |
| 20                           | QPSK       | 50      | 28        | 22.45                | 22.74                   | 22.82                 |                     |          |
| 20                           | QPSK       | 50      | 56        | 21.48                | 21.81                   | 21.96                 |                     |          |
| 20                           | QPSK       | 100     | 0         | 21.48                | 21.76                   | 21.8                  | 23.3                | 1        |
| 20                           | 16QAM      | 1       | 1         | 21.52                | 21.79                   | 22.07                 | 23.3                | 1        |
| 20                           | 64QAM      | 1       | 1         | 19.88                | 20.13                   | 20.4                  | 21.8                | 2.5      |
| 20                           | 256QAM     | 1       | 1         | 18.31                | 18.42                   | 18.72                 | 19.8                | 4.5      |
| Channel                      |            |         |           | 371500               | 376000                  | 380500                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 1857.5               | 1880                    | 1902.5                |                     |          |
| 15                           | QPSK       | 1       | 1         | 22.47                | 22.71                   | 22.94                 | 24.3                | 0        |
| Channel                      |            |         |           | 371000               | 376000                  | 381000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 1865                 | 1880                    | 1905                  |                     |          |
| 10                           | QPSK       | 1       | 1         | 22.37                | 22.62                   | 22.77                 | 24.3                | 0        |
| Channel                      |            |         |           | 370500               | 376000                  | 381500                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 1852.5               | 1880                    | 1907.5                |                     |          |
| 5                            | QPSK       | 1       | 1         | 22.32                | 22.7                    | 22.74                 | 24.3                | 0        |

| n5 (only SCS19KHz has 5M BW) |            |         |           |                      |                         |                       |                     |          |
|------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. [Freq] | Power Middle Ch. [Freq] | Power High Ch. [Freq] | Tune-up limit (dBm) | MPR (dB) |
| Channel                      |            |         |           | 166800               | 167300                  | 167800                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 834                  | 836.5                   | 839                   |                     |          |
| 20                           | PI2 BPSK   | 1       | 1         | 22.78                | 22.89                   | 22.59                 | 24.3                | 0        |
| 20                           | PI2 BPSK   | 1       | 53        | 22.79                | 22.86                   | 22.78                 |                     |          |
| 20                           | PI2 BPSK   | 1       | 104       | 22.65                | 22.78                   | 22.46                 |                     |          |
| 20                           | PI2 BPSK   | 50      | 0         | 22.59                | 22.62                   | 22.77                 | 24.3                | 0        |
| 20                           | PI2 BPSK   | 50      | 28        | 22.34                | 22.68                   | 22.85                 |                     |          |
| 20                           | PI2 BPSK   | 50      | 56        | 22.62                | 22.69                   | 22.45                 |                     |          |
| 20                           | PI2 BPSK   | 100     | 0         | 22.78                | 22.82                   | 22.32                 | 24.3                | 0        |
| 20                           | QPSK       | 1       | 1         | 23.16                | 23.31                   | 23.03                 | 24.3                | 0        |
| 20                           | QPSK       | 1       | 53        | 22.99                | 23.92                   | 22.97                 |                     |          |
| 20                           | QPSK       | 1       | 104       | 23.1                 | 22.96                   | 22.94                 |                     |          |
| 20                           | QPSK       | 50      | 0         | 22.07                | 22.08                   | 22.11                 | 24.3                | 0        |
| 20                           | QPSK       | 50      | 28        | 22.99                | 23.01                   | 22.87                 |                     |          |
| 20                           | QPSK       | 50      | 56        | 22.09                | 21.92                   | 22.04                 |                     |          |
| 20                           | QPSK       | 100     | 0         | 22.08                | 22.1                    | 22.08                 | 23.3                | 1        |
| 20                           | 16QAM      | 1       | 1         | 22.17                | 22.12                   | 22.07                 | 23.3                | 1        |
| 20                           | 64QAM      | 1       | 1         | 20.33                | 20.28                   | 20.23                 | 21.8                | 2.5      |
| 20                           | 256QAM     | 1       | 1         | 18.63                | 18.57                   | 18.6                  | 19.8                | 4.5      |
| Channel                      |            |         |           | 166300               | 167300                  | 168300                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 831.5                | 836.5                   | 841.5                 |                     |          |
| 15                           | QPSK       | 1       | 1         | 23.04                | 22.99                   | 23.01                 | 24.3                | 0        |
| Channel                      |            |         |           | 166800               | 167300                  | 168800                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 835                  | 836.5                   | 844                   |                     |          |
| 10                           | QPSK       | 1       | 1         | 22.87                | 22.84                   | 22.94                 | 24.3                | 0        |
| Channel                      |            |         |           | 166300               | 167300                  | 169300                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)              |            |         |           | 826.5                | 836.5                   | 846.5                 |                     |          |
| 5                            | QPSK       | 1       | 1         | 22.79                | 22.83                   | 22.78                 | 24.3                | 0        |

| n86 (only SCS19KHz has 5M BW) |            |         |           |                      |                         |                       |                     |          |
|-------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. [Freq] | Power Middle Ch. [Freq] | Power High Ch. [Freq] | Tune-up limit (dBm) | MPR (dB) |
| Channel                       |            |         |           | 344800               | 349000                  | 354000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |            |         |           | 1720                 | 1745                    | 1770                  |                     |          |
| 20                            | PI2 BPSK   | 1       | 1         | 22.68                | 22.88                   | 22.8                  | 24.3                | 0        |
| 20                            | PI2 BPSK   | 1       | 53        | 22.66                | 22.64                   | 22.75                 |                     |          |
| 20                            | PI2 BPSK   | 1       | 104       | 22.32                | 22.78                   | 22.61                 |                     |          |
| 20                            | PI2 BPSK   | 50      | 0         | 22.59                | 22.62                   | 22.52                 | 24.3                | 0        |
| 20                            | PI2 BPSK   | 50      | 28        | 22.84                | 22.59                   | 22.66                 |                     |          |
| 20                            | PI2 BPSK   | 50      | 56        | 22.26                | 22.77                   | 22.45                 |                     |          |
| 20                            | PI2 BPSK   | 100     | 0         | 22.39                | 22.81                   | 22.41                 | 24.3                | 0        |
| 20                            | QPSK       | 1       | 1         | 22.98                | 23.01                   | 22.84                 | 24.3                | 0        |
| 20                            | QPSK       | 1       | 53        | 22.92                | 22.96                   | 22.72                 |                     |          |
| 20                            | QPSK       | 1       | 104       | 22.82                | 22.87                   | 22.69                 |                     |          |
| 20                            | QPSK       | 50      | 0         | 22.01                | 21.98                   | 21.76                 | 24.3                | 0        |
| 20                            | QPSK       | 50      | 28        | 22.81                | 22.83                   | 22.69                 |                     |          |
| 20                            | QPSK       | 50      | 56        | 22.01                | 21.86                   | 21.72                 |                     |          |
| 20                            | QPSK       | 100     | 0         | 21.9                 | 21.92                   | 21.83                 | 23.3                | 1        |
| 20                            | 16QAM      | 1       | 1         | 21.96                | 21.8                    | 21.72                 | 23.3                | 1        |
| 20                            | 64QAM      | 1       | 1         | 20.41                | 20.44                   | 20.33                 | 21.8                | 2.5      |
| 20                            | 256QAM     | 1       | 1         | 18.66                | 18.61                   | 18.5                  | 19.8                | 4.5      |
| Channel                       |            |         |           | 343800               | 349000                  | 354500                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |            |         |           | 1717.5               | 1745                    | 1772.5                |                     |          |
| 15                            | QPSK       | 1       | 1         | 22.93                | 22.86                   | 22.7                  | 24.3                | 0        |
| Channel                       |            |         |           | 343500               | 349000                  | 355000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |            |         |           | 1715                 | 1745                    | 1775                  |                     |          |
| 10                            | QPSK       | 1       | 1         | 22.86                | 22.84                   | 22.52                 | 24.3                | 0        |
| Channel                       |            |         |           | 342800               | 349000                  | 355500                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)               |            |         |           | 1712.5               | 1745                    | 1777.5                |                     |          |
| 5                             | QPSK       | 1       | 1         | 22.79                | 22.59                   | 22.45                 | 24.3                | 0        |

| n71 (only SC3150kHz has 5M BW) |            |         |           |                      |                         |                       |                     |          |  |
|--------------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                       | Modulation | RB Size | RB Offset | Power Low Ch. [Freq] | Power Middle Ch. [Freq] | Power High Ch. [Freq] | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                        |            |         |           | 134600               | 136100                  | 137600                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 673                  | 680.5                   | 688                   |                     |          |  |
| 20                             | PI/2 BPSK  | 1       | 1         | 22.78                | 22.92                   | 22.76                 | 24.3                | 0        |  |
| 20                             | PI/2 BPSK  | 1       | 53        | 22.62                | 22.86                   | 22.61                 |                     |          |  |
| 20                             | PI/2 BPSK  | 1       | 104       | 22.59                | 22.45                   | 22.45                 |                     |          |  |
| 20                             | PI/2 BPSK  | 50      | 0         | 22.34                | 22.13                   | 22.26                 | 24.3                | 0        |  |
| 20                             | PI/2 BPSK  | 50      | 25        | 22.26                | 22.45                   | 22.16                 |                     |          |  |
| 20                             | PI/2 BPSK  | 50      | 56        | 22.56                | 22.39                   | 22.33                 |                     |          |  |
| 20                             | PI/2 BPSK  | 100     | 0         | 22.29                | 22.83                   | 22.45                 | 24.3                | 0        |  |
| 20                             | QPSK       | 1       | 1         | 23.03                | 23.05                   | 22.98                 | 24.3                | 0        |  |
| 20                             | QPSK       | 1       | 53        | 22.78                | 22.86                   | 22.7                  |                     |          |  |
| 20                             | QPSK       | 1       | 104       | 22.73                | 22.8                    | 22.65                 |                     |          |  |
| 20                             | QPSK       | 50      | 0         | 21.9                 | 21.95                   | 21.86                 | 24.3                | 0        |  |
| 20                             | QPSK       | 50      | 25        | 22.83                | 22.88                   | 22.71                 |                     |          |  |
| 20                             | QPSK       | 50      | 56        | 21.82                | 21.86                   | 21.75                 |                     |          |  |
| 20                             | QPSK       | 100     | 0         | 21.87                | 21.91                   | 21.84                 | 23.3                | 1        |  |
| 20                             | 16QAM      | 1       | 1         | 22.59                | 21.92                   | 21.94                 | 23.3                | 1        |  |
| 20                             | 16QAM      | 1       | 1         | 20.35                | 20.24                   | 20.21                 | 21.8                | 2.5      |  |
| 20                             | 256QAM     | 1       | 1         | 18.68                | 18.54                   | 18.43                 | 19.8                | 4.5      |  |
| Channel                        |            |         |           | 134100               | 136100                  | 138100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 670.5                | 680.5                   | 690.5                 |                     |          |  |
| 15                             | QPSK       | 1       | 1         | 22.96                | 22.92                   | 22.85                 | 24.3                | 0        |  |
| Channel                        |            |         |           | 133900               | 135100                  | 136300                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 668                  | 680.5                   | 693                   |                     |          |  |
| 10                             | QPSK       | 1       | 1         | 22.81                | 22.73                   | 22.69                 | 24.3                | 0        |  |
| Channel                        |            |         |           | 133100               | 136100                  | 139100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)                |            |         |           | 665.5                | 680.5                   | 695.5                 |                     |          |  |
| 5                              | QPSK       | 1       | 1         | 22.72                | 22.65                   | 22.6                  | 24.3                | 0        |  |

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| n41 |  |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509200                | 518600                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2545                  | 2593                     | 2640                   |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 23.15                 | 23.45                    | 23.11                  |                     |          |
| 100             | PV2 BPSK   | 1       | 137       | 23.11                 | 23.26                    | 23.28                  | 24.4                | 0        |
| 100             | PV2 BPSK   | 1       | 271       | 23.26                 | 23.33                    | 22.96                  |                     |          |
| 100             | PV2 BPSK   | 135     | 0         | 22.96                 | 23.31                    | 23.35                  |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 23.22                 | 23.05                    | 23.11                  | 24.4                | 0        |
| 100             | PV2 BPSK   | 135     | 138       | 23.01                 | 23.11                    | 23.05                  |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 22.92                 | 22.99                    | 22.88                  | 24.4                | 0        |
| 100             | QPSK       | 1       | 1         | 23.71                 | 23.81                    | 23.8                   |                     |          |
| 100             | QPSK       | 1       | 137       | 23.32                 | 23.56                    | 23.62                  | 24.4                | 0        |
| 100             | QPSK       | 1       | 271       | 23.31                 | 23.62                    | 23.3                   |                     |          |
| 100             | QPSK       | 135     | 0         | 23.48                 | 23.52                    | 23.42                  |                     |          |
| 100             | QPSK       | 135     | 69        | 23.39                 | 23.57                    | 23.44                  | 24.4                | 0        |
| 100             | QPSK       | 135     | 138       | 23.01                 | 23.41                    | 23.35                  |                     |          |
| 100             | QPSK       | 270     | 0         | 23.25                 | 23.38                    | 23.37                  | 24.4                | 0        |
| 100             | 16QAM      | 1       | 1         | 23.26                 | 23.43                    | 23.4                   | 24.4                | 0        |
| 100             | 64QAM      | 1       | 1         | 22.76                 | 22.81                    | 22.83                  | 24.4                | 0        |
| 100             | 256QAM     | 1       | 1         | 20.92                 | 21.13                    | 20.97                  | 22.9                | 1.5      |
| Channel         |            |         |           | 508200                | 518600                   | 529000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 23.39                 | 23.51                    | 23.57                  | 24.4                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 23.33                 | 23.32                    | 23.55                  | 24.4                | 0        |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 23.35                 | 23.39                    | 23.44                  | 24.4                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 23.31                 | 23.32                    | 23.44                  | 24.4                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 23.42                 | 23.45                    | 23.52                  | 24.4                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 23.45                 | 23.51                    | 23.43                  | 24.4                | 0        |

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|-----|--|--|--|--|--|--|--|--|
| n41 |  |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 505200                | 518600                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2545                  | 2593                     | 2640                   |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 23.65                 | 23.85                    | 23.86                  |                     |          |
| 100             | PV2 BPSK   | 1       | 137       | 23.55                 | 23.85                    | 23.70                  | 24.4                | 0        |
| 100             | PV2 BPSK   | 1       | 271       | 23.62                 | 23.78                    | 23.65                  |                     |          |
| 100             | PV2 BPSK   | 135     | 0         | 23.45                 | 23.77                    | 23.41                  |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 23.41                 | 23.36                    | 23.22                  | 24.4                | 0        |
| 100             | PV2 BPSK   | 135     | 138       | 23.32                 | 23.29                    | 23.49                  |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 23.56                 | 23.69                    | 23.61                  | 24.4                | 0        |
| 100             | QPSK       | 1       | 1         | 23.77                 | 24.19                    | 23.91                  |                     |          |
| 100             | QPSK       | 1       | 137       | 23.58                 | 24.03                    | 23.86                  | 24.4                | 0        |
| 100             | QPSK       | 1       | 271       | 23.46                 | 24.12                    | 23.88                  |                     |          |
| 100             | QPSK       | 135     | 0         | 23.54                 | 24.15                    | 23.64                  |                     |          |
| 100             | QPSK       | 135     | 69        | 23.65                 | 24.16                    | 23.93                  | 24.4                | 0        |
| 100             | QPSK       | 135     | 138       | 23.42                 | 24.15                    | 23.77                  |                     |          |
| 100             | QPSK       | 270     | 0         | 23.61                 | 24.09                    | 23.86                  | 24.4                | 0        |
| 100             | 16QAM      | 1       | 1         | 23.44                 | 23.96                    | 22.89                  | 24.4                | 0        |
| 100             | 64QAM      | 1       | 1         | 23.5                  | 23.94                    | 22.91                  | 24.4                | 0        |
| 100             | 256QAM     | 1       | 1         | 21.98                 | 22.25                    | 22.14                  | 22.9                | 1.5      |
| Channel         |            |         |           | 508200                | 518600                   | 539000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 23.71                 | 23.82                    | 24.05                  | 24.4                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 23.67                 | 23.73                    | 23.96                  | 24.4                | 0        |
| Channel         |            |         |           | 505200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 23.34                 | 23.61                    | 23.86                  | 24.4                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 23.36                 | 23.52                    | 23.75                  | 24.4                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 23.39                 | 23.89                    | 23.92                  | 24.4                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 23.33                 | 23.68                    | 23.76                  | 24.4                | 0        |

Reduced power for Hotspot on-LAT

|                              |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|
| n2 (only SCS19KHz has 5M BW) |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | Pi2 BPSK   | 1       | 1         | 18.23                    | 18.42                       | 18.72                     | 20.3                   | 0           |
| 20              | Pi2 BPSK   | 1       | 53        | 18.16                    | 18.26                       | 18.53                     |                        |             |
| 20              | Pi2 BPSK   | 1       | 104       | 17.99                    | 18.1                        | 18.23                     |                        |             |
| 20              | Pi2 BPSK   | 50      | 0         | 18.08                    | 18.4                        | 18.5                      | 20.3                   | 0           |
| 20              | Pi2 BPSK   | 50      | 28        | 18.03                    | 17.97                       | 18.51                     |                        |             |
| 20              | Pi2 BPSK   | 50      | 56        | 18.12                    | 18.16                       | 18.69                     |                        |             |
| 20              | Pi2 BPSK   | 100     | 0         | 18.17                    | 18.26                       | 18.68                     | 20.3                   | 0           |
| 20              | QPSK       | 1       | 1         | 19.08                    | 19.08                       | 19.24                     | 20.3                   | 0           |
| 20              | QPSK       | 1       | 53        | 19.07                    | 18.87                       | 19.11                     |                        |             |
| 20              | QPSK       | 1       | 104       | 18.97                    | 18.84                       | 19.02                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.04                    | 18.92                       | 19.08                     | 20.3                   | 0           |
| 20              | QPSK       | 50      | 28        | 19.12                    | 19                          | 19.21                     |                        |             |
| 20              | QPSK       | 50      | 56        | 19.04                    | 18.75                       | 18.89                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.13                    | 19.09                       | 19.18                     | 20.3                   | 0           |
| 20              | 16QAM      | 1       | 1         | 19.22                    | 19.09                       | 19.08                     | 20.3                   | 0           |
| 20              | 64QAM      | 1       | 1         | 19.13                    | 19.11                       | 19.16                     | 20.3                   | 0           |
| 20              | 256QAM     | 1       | 1         | 18.33                    | 18.32                       | 18.35                     | 19.3                   | 1           |
| Channel         |            |         |           | 371500                   | 376000                      | 380900                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1867.5                   | 1880                        | 1902.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 19                       | 18.93                       | 18.77                     | 20.3                   | 0           |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1905                      |                        |             |
| 10              | QPSK       | 1       | 1         | 18.91                    | 18.69                       | 18.57                     | 20.3                   | 0           |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1907.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 18.87                    | 18.67                       | 18.53                     | 20.3                   | 0           |

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| n5 (only SCS19KHz has 5M BW) |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|

| BW (MHz)        | Modulation | RB size | RB Offset | Power Low<br>Ch / Freq | Power Mid<br>Ch / Freq | Power High<br>Ch / Freq | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|------------------------|------------------------|-------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                 | 167300                 | 167800                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 834                    | 836.5                  | 838                     |                        |             |
| 20              | Pi2 BPSK   | 1       | 1         | 19.66                  | 19.77                  | 19.47                   | 21.3                   | 0           |
| 20              | Pi2 BPSK   | 1       | 53        | 19.67                  | 19.74                  | 19.67                   |                        |             |
| 20              | Pi2 BPSK   | 1       | 104       | 19.53                  | 19.66                  | 19.54                   |                        |             |
| 20              | Pi2 BPSK   | 50      | 0         | 19.47                  | 19.5                   | 19.65                   | 21.3                   | 0           |
| 20              | Pi2 BPSK   | 50      | 28        | 19.22                  | 19.54                  | 19.53                   |                        |             |
| 20              | Pi2 BPSK   | 50      | 56        | 19.5                   | 19.67                  | 19.33                   |                        |             |
| 20              | Pi2 BPSK   | 100     | 0         | 19.66                  | 19.7                   | 19.2                    | 21.3                   | 0           |
| 20              | QPSK       | 1       | 1         | 20.19                  | 20.21                  | 20.06                   | 21.3                   | 0           |
| 20              | QPSK       | 1       | 53        | 20.02                  | 19.95                  | 20                      |                        |             |
| 20              | QPSK       | 1       | 104       | 20.13                  | 19.99                  | 19.97                   |                        |             |
| 20              | QPSK       | 50      | 0         | 20.01                  | 20.03                  | 19.94                   | 21.3                   | 0           |
| 20              | QPSK       | 50      | 28        | 20.01                  | 20.14                  | 20.02                   |                        |             |
| 20              | QPSK       | 50      | 56        | 19.96                  | 19.97                  | 19.91                   |                        |             |
| 20              | QPSK       | 100     | 0         | 20.08                  | 20.12                  | 20.09                   | 21.3                   | 0           |
| 20              | 16QAM      | 1       | 1         | 20.01                  | 20.03                  | 20.01                   | 21.3                   | 0           |
| 20              | 64QAM      | 1       | 1         | 19.86                  | 19.88                  | 19.81                   | 21.3                   | 0           |
| 20              | 256QAM     | 1       | 1         | 18.45                  | 18.51                  | 18.52                   | 19.3                   | 2           |
| Channel         |            |         |           | 166300                 | 167300                 | 168300                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 831.5                  | 836.5                  | 841.5                   |                        |             |
| 15              | QPSK       | 1       | 1         | 20.08                  | 20.09                  | 20.02                   | 21.3                   | 0           |
| Channel         |            |         |           | 165800                 | 167300                 | 168800                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 829                    | 836.5                  | 844                     |                        |             |
| 10              | QPSK       | 1       | 1         | 19.81                  | 19.82                  | 19.89                   | 21.3                   | 0           |
| Channel         |            |         |           | 165300                 | 167300                 | 169300                  | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 826.5                  | 836.5                  | 846.5                   |                        |             |
| 5               | QPSK       | 1       | 1         | 19.76                  | 19.83                  | 19.72                   | 21.3                   | 0           |

|                              |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|
| n8 (only SCS19KHz has 5M BW) |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|

| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Mid<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 344000                   | 349000                      | 354000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |             |
| 20              | Pi2 BPSK   | 1       | 1         | 19.01                    | 19.21                       | 19.13                     | 20.8                   | 0           |
| 20              | Pi2 BPSK   | 1       | 53        | 18.99                    | 18.97                       | 19.08                     |                        |             |
| 20              | Pi2 BPSK   | 1       | 104       | 18.65                    | 19.11                       | 18.94                     |                        |             |
| 20              | Pi2 BPSK   | 50      | 0         | 18.92                    | 18.95                       | 18.85                     | 20.8                   | 0           |
| 20              | Pi2 BPSK   | 50      | 28        | 18.97                    | 18.92                       | 18.99                     |                        |             |
| 20              | Pi2 BPSK   | 50      | 56        | 18.98                    | 19.1                        | 18.78                     |                        |             |
| 20              | Pi2 BPSK   | 100     | 0         | 18.72                    | 19.14                       | 18.74                     | 20.8                   | 0           |
| 20              | QPSK       | 1       | 1         | 19.02                    | 19.04                       | 19.57                     | 20.8                   | 0           |
| 20              | QPSK       | 1       | 53        | 19.35                    | 19.47                       | 19.29                     |                        |             |
| 20              | QPSK       | 1       | 104       | 19.32                    | 19.39                       | 19.24                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.17                    | 19.22                       | 19.13                     | 20.8                   | 0           |
| 20              | QPSK       | 50      | 28        | 19.52                    | 19.58                       | 19.5                      |                        |             |
| 20              | QPSK       | 50      | 56        | 19.09                    | 19.13                       | 19.02                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.35                    | 19.38                       | 19.32                     | 20.8                   | 0           |
| 20              | 16QAM      | 1       | 1         | 19.48                    | 19.34                       | 19.36                     | 20.8                   | 0           |
| 20              | 64QAM      | 1       | 1         | 19.18                    | 19.21                       | 19.2                      | 20.8                   | 0           |
| 20              | 256QAM     | 1       | 1         | 18.36                    | 18.45                       | 18.32                     | 19.8                   | 1           |
| Channel         |            |         |           | 343500                   | 349000                      | 354500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 19.51                    | 19.47                       | 19.4                      | 20.8                   | 0           |
| Channel         |            |         |           | 343000                   | 349000                      | 355000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      |                        |             |
| 10              | QPSK       | 1       | 1         | 19.36                    | 19.28                       | 19.24                     | 20.8                   | 0           |
| Channel         |            |         |           | 342500                   | 349000                      | 355500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 19.27                    | 19.2                        | 19.15                     | 20.8                   | 0           |

n71 (only SC515KHz has 5M BW)

| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Main<br>Ch. / Freq. | Power<br>Hsp.<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MRR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 134000                      | 136100                       | 137000                       | Tune-up limit<br>(dBm) | MRR<br>(dB) |
| Frequency (MHz) |            |         |           | 672                         | 680.5                        | 688                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 20.69                       | 20.83                        | 20.67                        | 22.3                   | 0           |
| 20              | PI2 BPSK   | 1       | 53        | 20.53                       | 20.47                        | 20.52                        |                        |             |
| 20              | PI2 BPSK   | 1       | 104       | 20.5                        | 20.36                        | 20.36                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 20.25                       | 20.84                        | 20.17                        | 22.3                   | 0           |
| 20              | PI2 BPSK   | 50      | 28        | 20.17                       | 20.36                        | 20.07                        |                        |             |
| 20              | PI2 BPSK   | 50      | 56        | 20.47                       | 20.3                         | 20.24                        |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 20.2                        | 20.34                        | 20.36                        | 22.3                   | 0           |
| 20              | QPSK       | 1       | 1         | 21.13                       | 21.16                        | 21.15                        | 22.3                   | 0           |
| 20              | QPSK       | 1       | 53        | 20.83                       | 20.65                        | 20.77                        |                        |             |
| 20              | QPSK       | 1       | 104       | 20.8                        | 20.87                        | 20.72                        |                        |             |
| 20              | QPSK       | 50      | 0         | 19.97                       | 20.02                        | 19.83                        | 22.3                   | 0           |
| 20              | QPSK       | 50      | 28        | 20.9                        | 21                           | 20.89                        |                        |             |
| 20              | QPSK       | 50      | 56        | 19.89                       | 19.93                        | 19.82                        |                        |             |
| 20              | QPSK       | 100     | 0         | 20.88                       | 20.96                        | 20.8                         | 22.3                   | 0           |
| 20              | 16QAM      | 1       | 1         | 20.71                       | 20.82                        | 20.77                        | 22.3                   | 0           |
| 20              | 64QAM      | 1       | 1         | 20.26                       | 20.26                        | 20.11                        | 21.3                   | 1           |
| 20              | 256QAM     | 1       | 1         | 18.42                       | 18.5                         | 18.23                        | 19.3                   | 3           |
| Channel         |            |         |           | 134100                      | 136100                       | 138100                       | Tune-up limit<br>(dBm) | MRR<br>(dB) |
| Frequency (MHz) |            |         |           | 681.5                       | 688.5                        | 694.5                        |                        |             |
| 15              | QPSK       | 1       | 1         | 21.03                       | 20.99                        | 20.92                        | 22.3                   | 0           |
| Channel         |            |         |           | 135000                      | 136100                       | 136000                       | Tune-up limit<br>(dBm) | MRR<br>(dB) |
| Frequency (MHz) |            |         |           | 668                         | 680.5                        | 693                          |                        |             |
| 10              | QPSK       | 1       | 1         | 20.88                       | 20.8                         | 20.76                        | 22.3                   | 0           |
| Channel         |            |         |           | 133100                      | 136100                       | 139100                       | Tune-up limit<br>(dBm) | MRR<br>(dB) |
| Frequency (MHz) |            |         |           | 665.5                       | 680.5                        | 695.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 20.79                       | 20.72                        | 20.67                        | 22.3                   | 0           |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 17.45                 | 17.59                    | 17.52                  | 18.4                | 0        |
| 100             | PI2 BPSK   | 1       | 137       | 17.35                 | 17.49                    | 17.43                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 17.42                 | 17.42                    | 17.45                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 17.25                 | 17.57                    | 17.21                  | 18.4                | 0        |
| 100             | PI2 BPSK   | 135     | 69        | 17.21                 | 17.16                    | 17.22                  |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 17.12                 | 17.09                    | 17.29                  |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 17.36                 | 17.49                    | 17.41                  | 18.4                | 0        |
| 100             | QPSK       | 1       | 1         | 17.62                 | 17.72                    | 17.71                  |                     |          |
| 100             | QPSK       | 1       | 137       | 17.38                 | 17.62                    | 17.68                  | 18.4                | 0        |
| 100             | QPSK       | 1       | 271       | 17.37                 | 17.68                    | 17.36                  |                     |          |
| 100             | QPSK       | 135     | 0         | 17.54                 | 17.58                    | 17.48                  |                     |          |
| 100             | QPSK       | 135     | 69        | 17.55                 | 17.63                    | 17.5                   | 18.4                | 0        |
| 100             | QPSK       | 135     | 138       | 17.07                 | 17.47                    | 17.41                  |                     |          |
| 100             | QPSK       | 270     | 0         | 17.39                 | 17.44                    | 17.43                  | 18.4                | 0        |
| 100             | 16QAM      | 1       | 1         | 17.32                 | 17.49                    | 17.46                  | 18.4                | 0        |
| 100             | 64QAM      | 1       | 1         | 17.47                 | 17.5                     | 17.52                  | 18.4                | 0        |
| 100             | 256QAM     | 1       | 1         | 17.43                 | 17.64                    | 17.48                  | 18.4                | 0        |
| Channel         |            |         |           | 506200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 17.48                 | 17.8                     | 17.66                  | 18.4                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.42                 | 17.41                    | 17.64                  | 18.4                | 0        |
| Channel         |            |         |           | 506200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 17.44                 | 17.48                    | 17.53                  | 18.4                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.4                  | 17.41                    | 17.53                  | 18.4                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 17.51                 | 17.59                    | 17.61                  | 18.4                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.54                 | 17.6                     | 17.52                  | 18.4                | 0        |

| n2 (only SCS15KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |  |          |  |
|------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|----------|--|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Channel                      |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)              |            |         |           | 1860                  | 1880                     | 1900                   | 21.3                | 0        |  |          |  |
| 20                           | PV2 BPSK   | 1       | 1         | 19.47                 | 19.66                    | 19.75                  |                     |          |  |          |  |
| 20                           | PV2 BPSK   | 1       | 53        | 19.4                  | 19.48                    | 19.56                  |                     |          |  |          |  |
| 20                           | PV2 BPSK   | 1       | 104       | 19.23                 | 19.34                    | 19.26                  |                     |          |  |          |  |
| 20                           | PV2 BPSK   | 50      | 0         | 19.32                 | 19.64                    | 19.53                  | 21.3                | 0        |  |          |  |
| 20                           | PV2 BPSK   | 50      | 28        | 19.27                 | 19.21                    | 19.54                  |                     |          |  |          |  |
| 20                           | PV2 BPSK   | 50      | 56        | 19.36                 | 19.4                     | 19.72                  |                     |          |  |          |  |
| 20                           | PV2 BPSK   | 100     | 0         | 19.41                 | 19.53                    | 19.71                  |                     |          |  |          |  |
| 20                           | QPSK       | 1       | 1         | 20.14                 | 20.02                    | 20.3                   | 21.3                | 0        |  |          |  |
| 20                           | QPSK       | 1       | 53        | 20.13                 | 19.93                    | 20.17                  |                     |          |  |          |  |
| 20                           | QPSK       | 1       | 104       | 20.03                 | 19.9                     | 20.08                  |                     |          |  |          |  |
| 20                           | QPSK       | 50      | 0         | 20.1                  | 19.98                    | 20.14                  |                     |          |  |          |  |
| 20                           | QPSK       | 50      | 28        | 20.18                 | 20.06                    | 20.27                  | 21.3                | 0        |  |          |  |
| 20                           | QPSK       | 50      | 56        | 20.1                  | 19.81                    | 19.95                  |                     |          |  |          |  |
| 20                           | QPSK       | 100     | 0         | 20.19                 | 20.15                    | 20.24                  |                     |          |  |          |  |
| 20                           | 16QAM      | 1       | 1         | 20.28                 | 20.05                    | 20.12                  | 21.3                | 0        |  |          |  |
| 20                           | 64QAM      | 1       | 1         | 20.19                 | 20.17                    | 20.22                  | 21.3                | 0        |  |          |  |
| 20                           | 256QAM     | 1       | 1         | 19.65                 | 18.63                    | 18.67                  | 20.3                | 1        |  |          |  |
| Channel                      |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)              |            |         |           | 1867.5                | 1880                     | 1902.5                 | 21.3                | 0        |  |          |  |
| 15                           | QPSK       | 1       | 1         | 20.06                 | 19.99                    | 19.83                  |                     |          |  |          |  |
| Channel                      |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| Frequency (MHz)              |            |         |           | 1865                  | 1880                     | 1905                   | 21.3                |          |  | 0        |  |
| 10                           | QPSK       | 1       | 1         | 19.97                 | 19.75                    | 19.63                  |                     |          |  |          |  |
| Channel                      |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)              |            |         |           | 1862.5                | 1880                     | 1907.5                 | 21.3                | 0        |  |          |  |
| 5                            | QPSK       | 1       | 1         | 19.93                 | 19.79                    | 19.59                  |                     |          |  |          |  |

| n66 (only SCS15KHz has 5M BW) |            |         |           |                       |                          |                        |                     |          |  |          |  |
|-------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|----------|--|
| BW [MHz]                      | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Channel                       |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)               |            |         |           | 1720                  | 1745                     | 1770                   | 20.3                | 0        |  |          |  |
| 20                            | PV2 BPSK   | 1       | 1         | 18.73                 | 18.93                    | 18.85                  |                     |          |  |          |  |
| 20                            | PV2 BPSK   | 1       | 53        | 18.71                 | 18.69                    | 18.8                   |                     |          |  |          |  |
| 20                            | PV2 BPSK   | 1       | 104       | 18.37                 | 18.83                    | 18.66                  |                     |          |  |          |  |
| 20                            | PV2 BPSK   | 50      | 0         | 18.64                 | 18.67                    | 18.57                  | 20.3                | 0        |  |          |  |
| 20                            | PV2 BPSK   | 50      | 28        | 18.69                 | 18.84                    | 18.71                  |                     |          |  |          |  |
| 20                            | PV2 BPSK   | 50      | 56        | 18.31                 | 18.82                    | 18.5                   |                     |          |  |          |  |
| 20                            | PV2 BPSK   | 100     | 0         | 18.44                 | 18.86                    | 18.46                  |                     |          |  |          |  |
| 20                            | QPSK       | 1       | 1         | 19.18                 | 19.2                     | 19.13                  | 20.3                | 0        |  |          |  |
| 20                            | QPSK       | 1       | 53        | 18.91                 | 19.03                    | 18.85                  |                     |          |  |          |  |
| 20                            | QPSK       | 1       | 104       | 18.88                 | 18.95                    | 18.8                   |                     |          |  |          |  |
| 20                            | QPSK       | 50      | 0         | 18.73                 | 18.78                    | 18.69                  |                     |          |  |          |  |
| 20                            | QPSK       | 50      | 28        | 18.98                 | 18.04                    | 18.86                  | 20.3                | 0        |  |          |  |
| 20                            | QPSK       | 50      | 56        | 18.65                 | 18.69                    | 18.58                  |                     |          |  |          |  |
| 20                            | QPSK       | 100     | 0         | 18.91                 | 18.96                    | 18.88                  |                     |          |  |          |  |
| 20                            | 16QAM      | 1       | 1         | 19.04                 | 18.9                     | 18.92                  | 20.3                | 0        |  |          |  |
| 20                            | 64QAM      | 1       | 1         | 18.74                 | 18.77                    | 18.76                  | 20.3                | 0        |  |          |  |
| 20                            | 256QAM     | 1       | 1         | 18.42                 | 18.51                    | 18.38                  | 19.3                | 1        |  |          |  |
| Channel                       |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)               |            |         |           | 1717.5                | 1745                     | 1772.5                 | 20.3                | 0        |  |          |  |
| 15                            | QPSK       | 1       | 1         | 19.07                 | 19.03                    | 18.96                  |                     |          |  |          |  |
| Channel                       |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) |          |  | MPR (dB) |  |
| Frequency (MHz)               |            |         |           | 1715                  | 1745                     | 1775                   | 20.3                |          |  | 0        |  |
| 10                            | QPSK       | 1       | 1         | 18.92                 | 18.84                    | 18.8                   |                     |          |  |          |  |
| Channel                       |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |          |  |
| Frequency (MHz)               |            |         |           | 1712.5                | 1745                     | 1777.5                 | 20.3                | 0        |  |          |  |
| 5                             | QPSK       | 1       | 1         | 18.83                 | 18.76                    | 18.71                  |                     |          |  |          |  |

| n41             |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [Mhz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 505200                | 518600                   | 526000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546                  | 2593                     | 2640                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 17.45                 | 17.58                    | 17.52                  | 18.4                | 0        |
| 100             | PI2 BPSK   | 1       | 137       | 17.35                 | 17.49                    | 17.43                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 17.42                 | 17.42                    | 17.45                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 17.25                 | 17.57                    | 17.21                  | 18.4                | 0        |
| 100             | PI2 BPSK   | 135     | 69        | 17.21                 | 17.16                    | 17.22                  |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 17.12                 | 17.09                    | 17.29                  |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 17.36                 | 17.49                    | 17.41                  | 18.4                | 0        |
| 100             | QPSK       | 1       | 1         | 17.62                 | 17.72                    | 17.71                  | 18.4                | 0        |
| 100             | QPSK       | 1       | 137       | 17.38                 | 17.62                    | 17.68                  |                     |          |
| 100             | QPSK       | 1       | 271       | 17.37                 | 17.68                    | 17.36                  |                     |          |
| 100             | QPSK       | 135     | 0         | 17.54                 | 17.58                    | 17.48                  | 18.4                | 0        |
| 100             | QPSK       | 135     | 69        | 17.55                 | 17.63                    | 17.5                   |                     |          |
| 100             | QPSK       | 135     | 138       | 17.07                 | 17.47                    | 17.41                  |                     |          |
| 100             | QPSK       | 270     | 0         | 17.39                 | 17.44                    | 17.43                  | 18.4                | 0        |
| 100             | 16QAM      | 1       | 1         | 17.32                 | 17.49                    | 17.46                  | 18.4                | 0        |
| 100             | 64QAM      | 1       | 1         | 17.47                 | 17.5                     | 17.52                  | 18.4                | 0        |
| 100             | 256QAM     | 1       | 1         | 17.43                 | 17.64                    | 17.48                  | 18.4                | 0        |
| Channel         |            |         |           | 506200                | 518600                   | 526000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2641                  | 2593                     | 2645                   |                     |          |
| 90              | QPSK       | 1       | 1         | 17.48                 | 17.8                     | 17.66                  | 18.4                | 0        |
| Channel         |            |         |           | 507200                | 518600                   | 530000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2636                  | 2593                     | 2650                   |                     |          |
| 80              | QPSK       | 1       | 1         | 17.42                 | 17.41                    | 17.64                  | 18.4                | 0        |
| Channel         |            |         |           | 506200                | 518600                   | 532000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2626                  | 2593                     | 2660                   |                     |          |
| 60              | QPSK       | 1       | 1         | 17.44                 | 17.48                    | 17.53                  | 18.4                | 0        |
| Channel         |            |         |           | 504200                | 518600                   | 533000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2621                  | 2593                     | 2665                   |                     |          |
| 50              | QPSK       | 1       | 1         | 17.4                  | 17.41                    | 17.53                  | 18.4                | 0        |
| Channel         |            |         |           | 503200                | 518600                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516                  | 2593                     | 2570                   |                     |          |
| 40              | QPSK       | 1       | 1         | 17.51                 | 17.58                    | 17.61                  | 18.4                | 0        |
| Channel         |            |         |           | 501200                | 518600                   | 536000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2608                  | 2593                     | 2680                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.54                 | 17.6                     | 17.52                  | 18.4                | 0        |

Bluetooth Full Power

| BT 2.0(ANT1) |         |                 |                     |       |       |      |      |      |      |      |      |
|--------------|---------|-----------------|---------------------|-------|-------|------|------|------|------|------|------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |       |       |      |      |      |      |      |      |
|              |         |                 | Packet Type         |       |       |      |      |      |      |      |      |
|              |         |                 | DH1                 | DH3   | DH5   | 2DH1 | 2DH3 | 2DH5 | 3DH1 | 3DH3 | 3DH5 |
| Bluetooth    | CH 0    | 2402            | 10.20               | 10.00 | 9.90  | 8.00 | 7.90 | 7.90 | 8.00 | 7.90 | 7.90 |
|              | CH 39   | 2441            | 11.10               | 10.90 | 10.90 | 9.00 | 8.90 | 8.80 | 9.00 | 8.90 | 8.80 |
|              | CH 78   | 2480            | 11.10               | 11.00 | 10.90 | 9.00 | 8.90 | 8.80 | 9.00 | 8.90 | 8.90 |

| BT 2.0(ANT2) |         |                 |                     |      |      |      |      |      |      |      |      |
|--------------|---------|-----------------|---------------------|------|------|------|------|------|------|------|------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |      |      |      |      |      |      |      |      |
|              |         |                 | Packet Type         |      |      |      |      |      |      |      |      |
|              |         |                 | DH1                 | DH3  | DH5  | 2DH1 | 2DH3 | 2DH5 | 3DH1 | 3DH3 | 3DH5 |
| Bluetooth    | CH 0    | 2402            | 4.60                | 4.73 | 4.50 | 2.60 | 2.50 | 2.50 | 2.60 | 2.50 | 2.50 |
|              | CH 39   | 2441            | 5.00                | 4.90 | 4.90 | 3.10 | 3.00 | 3.00 | 3.00 | 2.90 | 2.90 |
|              | CH 78   | 2480            | 4.80                | 4.70 | 4.70 | 2.90 | 2.80 | 2.80 | 2.90 | 2.80 | 2.80 |

| BT 4.0(ANT1) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | GFSK                | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 7.80                | 9.80          |
|              | CH 19   | 2440            | 8.70                | 10.70         |
|              | CH 39   | 2480            | 8.70                | 10.70         |

| BT 4.0(ANT2) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | GFSK                | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 2.60                | 4.60          |
|              | CH 19   | 2440            | 3.00                | 5.00          |
|              | CH 39   | 2480            | 2.90                | 4.90          |

| BT 5.0(ANT1) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | 2Mbps               | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 7.90                | 9.90          |
|              | CH 19   | 2440            | 8.80                | 10.80         |
|              | CH 39   | 2480            | 8.80                | 10.80         |

| BT 5.0(ANT2) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | 2Mbps               | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 2.70                | 4.70          |
|              | CH 19   | 2440            | 3.10                | 5.10          |
|              | CH 39   | 2480            | 2.90                | 4.90          |

Bluetooth Reduced Power

| BT 2.0(ANT1) |         |                 |                     |      |      |      |      |      |      |      |      |
|--------------|---------|-----------------|---------------------|------|------|------|------|------|------|------|------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |      |      |      |      |      |      |      |      |
|              |         |                 | Packet Type         |      |      |      |      |      |      |      |      |
|              |         |                 | DH1                 | DH3  | DH5  | 2DH1 | 2DH3 | 2DH5 | 3DH1 | 3DH3 | 3DH5 |
| Bluetooth    | CH 0    | 2402            | 5.40                | 5.20 | 5.20 | 3.70 | 3.60 | 3.40 | 3.60 | 3.50 | 3.50 |
|              | CH 39   | 2441            | 5.90                | 5.80 | 5.80 | 4.10 | 4.00 | 4.00 | 4.10 | 4.00 | 4.00 |
|              | CH 78   | 2480            | 5.60                | 5.50 | 5.50 | 3.80 | 3.70 | 3.70 | 3.80 | 3.70 | 3.70 |

| BT 4.0(ANT1) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | GFSK                | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 3.90                | 5.90          |
|              | CH 19   | 2440            | 4.00                | 6.00          |
|              | CH 39   | 2480            | 3.70                | 5.70          |

| BT 5.0(ANT1) |         |                 |                     |               |
|--------------|---------|-----------------|---------------------|---------------|
| Mode         | Channel | Frequency (MHz) | Average power (dBm) |               |
|              |         |                 | 2Mbps               | Tune-up Limit |
|              |         |                 |                     |               |
| LE           | CH 00   | 2402            | 3.60                | 5.60          |
|              | CH 19   | 2440            | 4.10                | 6.10          |
|              | CH 39   | 2480            | 3.80                | 5.80          |

WLAN Full Power

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 21.96               | 23.96         | 98.35        |
|             |                    | 6       | 2437            | 21.76               | 23.76         |              |
|             |                    | 11      | 2462            | 21.61               | 23.61         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 19.11               | 21.11         | 99.04        |
|             |                    | 6       | 2437            | 18.67               | 20.67         |              |
|             |                    | 11      | 2462            | 19.06               | 21.06         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 20.06               | 22.06         | 100.00       |
|             |                    | 6       | 2437            | 19.76               | 21.76         |              |
|             |                    | 11      | 2462            | 20.01               | 22.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 17.76               | 19.76         | 100.00       |
|             |                    | 6       | 2437            | 17.96               | 19.96         |              |
|             |                    | 9       | 2452            | 17.76               | 19.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 20.16               | 22.16         | 100.00       |
|             |                    | 6       | 2437            | 19.71               | 21.71         |              |
|             |                    | 11      | 2462            | 20.06               | 22.06         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 17.96               | 19.96         | 100.00       |
|             |                    | 6       | 2437            | 17.77               | 19.77         |              |
|             |                    | 9       | 2452            | 17.43               | 19.43         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 17.43               | 19.43         | 98.77        |
|             |                     | 40      | 5200            | 17.50               | 19.50         |              |
|             |                     | 44      | 5220            | 17.63               | 19.63         |              |
|             | 802.11n-HT20 MCS0   | 48      | 5240            | 17.55               | 19.55         | 100.00       |
|             |                     | 36      | 5180            | 16.98               | 18.98         |              |
|             |                     | 40      | 5200            | 17.15               | 19.15         |              |
|             | 802.11n-HT40 MCS0   | 44      | 5220            | 17.12               | 19.12         | 100.00       |
|             |                     | 48      | 5240            | 17.00               | 19.00         |              |
|             |                     | 38      | 5190            | 17.23               | 19.23         |              |
|             | 802.11ac-VHT20 MCS0 | 46      | 5230            | 17.26               | 19.26         | 100.00       |
|             |                     | 36      | 5180            | 16.94               | 18.94         |              |
|             |                     | 40      | 5200            | 17.10               | 19.10         |              |
|             | 802.11ac-VHT40 MCS0 | 44      | 5220            | 17.05               | 19.05         | 100.00       |
|             |                     | 48      | 5240            | 16.95               | 18.95         |              |
|             |                     | 38      | 5190            | 17.17               | 19.17         |              |
|             | 802.11ac-VHT80 MCS0 | 46      | 5230            | 17.21               | 19.21         | 100.00       |
|             |                     | 42      | 5210            | 16.34               | 18.34         |              |
|             |                     | 36      | 5180            | 17.21               | 19.21         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 17.13               | 19.13         | 100.00       |
|             |                     | 44      | 5220            | 17.30               | 19.30         |              |
|             |                     | 48      | 5240            | 17.25               | 19.25         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 16.40               | 18.40         | 100.00       |
|             |                     | 46      | 5230            | 17.37               | 19.37         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 16.14               | 18.14         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 17.65               | 19.65         | 98.77        |
|             |                     | 56      | 5280            | 17.47               | 19.47         |              |
|             |                     | 60      | 5300            | 17.69               | 19.69         |              |
|             |                     | 64      | 5320            | 17.72               | 19.72         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 17.21               | 19.21         | 100.00       |
|             |                     | 56      | 5280            | 17.36               | 19.36         |              |
|             |                     | 60      | 5300            | 17.42               | 19.42         |              |
|             |                     | 64      | 5320            | 17.60               | 19.60         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 17.45               | 19.45         | 100.00       |
|             |                     | 62      | 5310            | 16.54               | 18.54         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 17.18               | 19.18         | 100.00       |
|             |                     | 56      | 5280            | 17.26               | 19.26         |              |
|             |                     | 60      | 5300            | 17.37               | 19.37         |              |
|             |                     | 64      | 5320            | 17.57               | 19.57         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.39               | 19.39         | 100.00       |
|             |                     | 62      | 5310            | 16.52               | 18.52         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 14.22               | 16.22         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 17.32               | 19.32         | 100.00       |
|             |                     | 56      | 5280            | 17.30               | 19.30         |              |
|             |                     | 60      | 5300            | 17.39               | 19.39         |              |
|             |                     | 64      | 5320            | 17.45               | 19.45         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 17.57               | 19.57         | 100.00       |
|             |                     | 62      | 5310            | 15.85               | 17.85         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 16.18               | 18.18         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 100     | 5500            | 16.55               | 18.55         | 98.77        |
|             |                     | 116     | 5580            | 16.25               | 18.25         |              |
|             |                     | 124     | 5620            | 16.00               | 18.00         |              |
|             |                     | 132     | 5660            | 16.01               | 18.01         |              |
|             |                     | 140     | 5700            | 16.10               | 18.10         |              |
|             |                     | 144     | 5720            | 16.02               | 18.02         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 15.35               | 17.35         | 100.00       |
|             |                     | 116     | 5580            | 16.13               | 18.13         |              |
|             |                     | 124     | 5620            | 16.03               | 18.03         |              |
|             |                     | 132     | 5660            | 16.06               | 18.06         |              |
|             |                     | 140     | 5700            | 15.42               | 17.42         |              |
|             |                     | 144     | 5720            | 15.93               | 17.93         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 15.51               | 17.51         | 100.00       |
|             |                     | 110     | 5550            | 16.21               | 18.21         |              |
|             |                     | 126     | 5630            | 16.02               | 18.02         |              |
|             |                     | 134     | 5670            | 16.36               | 18.36         |              |
|             |                     | 142     | 5710            | 16.52               | 18.52         |              |
|             |                     | 100     | 5500            | 15.31               | 17.31         |              |
|             | 802.11ac-VHT20 MCS0 | 116     | 5580            | 16.02               | 18.02         | 100.00       |
|             |                     | 124     | 5620            | 15.92               | 17.92         |              |
|             |                     | 132     | 5660            | 15.83               | 17.83         |              |
|             |                     | 140     | 5700            | 15.39               | 17.39         |              |
|             |                     | 144     | 5720            | 15.88               | 17.88         |              |
|             |                     | 102     | 5510            | 15.48               | 17.48         |              |
|             | 802.11ac-VHT40 MCS0 | 110     | 5550            | 16.17               | 18.17         | 100.00       |
|             |                     | 126     | 5630            | 15.98               | 17.98         |              |
|             |                     | 134     | 5670            | 16.32               | 18.32         |              |
|             |                     | 142     | 5710            | 16.45               | 18.45         |              |
|             |                     | 106     | 5530            | 15.30               | 17.30         |              |
|             |                     | 122     | 5610            | 15.08               | 17.08         | 100.00       |
|             | 802.11ac-VHT80 MCS0 | 138     | 5690            | 15.08               | 17.08         |              |
|             |                     | 100     | 5500            | 16.12               | 18.12         |              |
|             | 802.11ax-HE20 MCS0  | 116     | 5580            | 16.05               | 18.05         | 100.00       |
|             |                     | 124     | 5620            | 16.06               | 18.06         |              |
|             |                     | 132     | 5660            | 15.97               | 17.97         |              |
|             |                     | 140     | 5700            | 14.15               | 16.15         |              |
|             |                     | 144     | 5720            | 15.85               | 17.85         |              |
|             |                     | 102     | 5510            | 16.51               | 18.51         | 100.00       |
|             | 802.11ax-HE40 MCS0  | 110     | 5550            | 16.12               | 18.12         |              |
|             |                     | 126     | 5630            | 16.11               | 18.11         |              |
|             |                     | 134     | 5670            | 15.99               | 17.99         |              |
|             |                     | 142     | 5710            | 15.88               | 17.88         |              |
|             |                     | 106     | 5530            | 15.31               | 17.31         | 100.00       |
|             | 802.11ax-HE80 MCS0  | 122     | 5610            | 14.84               | 16.84         |              |
|             |                     | 138     | 5690            | 14.64               | 16.64         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 16.11               | 18.11         | 98.77        |
|             |                     | 157     | 5785            | 16.07               | 18.07         |              |
|             |                     | 165     | 5825            | 16.06               | 18.06         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 16.29               | 18.29         | 100.00       |
|             |                     | 157     | 5785            | 16.23               | 18.23         |              |
|             |                     | 165     | 5825            | 16.27               | 18.27         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 16.44               | 18.44         | 100.00       |
|             |                     | 159     | 5795            | 16.38               | 18.38         |              |
|             |                     | 149     | 5745            | 16.18               | 18.18         | 100.00       |
|             | 802.11ac-VHT20 MCS0 | 157     | 5785            | 16.11               | 18.11         |              |
|             |                     | 165     | 5825            | 16.12               | 18.12         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 16.39               | 18.39         | 100.00       |
|             |                     | 159     | 5795            | 16.34               | 18.34         |              |
|             |                     | 155     | 5775            | 14.16               | 16.16         | 100.00       |
|             | 802.11ac-VHT80 MCS0 | 149     | 5745            | 16.08               | 18.08         |              |
|             |                     | 157     | 5785            | 15.97               | 17.97         |              |
|             |                     | 165     | 5825            | 16.01               | 18.01         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 151     | 5755            | 16.27               | 18.27         |              |
|             |                     | 159     | 5795            | 16.00               | 18.00         |              |
|             |                     | 155     | 5775            | 14.96               | 16.96         | 100.00       |

Reduced Power Level 1 for Head

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 17.96               | 19.96         | 98.35        |
|             |                    | 6       | 2437            | 17.66               | 19.66         |              |
|             |                    | 11      | 2462            | 17.81               | 19.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 15.11               | 17.11         | 99.04        |
|             |                    | 6       | 2437            | 14.57               | 16.57         |              |
|             |                    | 11      | 2462            | 14.96               | 16.96         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 16.06               | 18.06         | 100.00       |
|             |                    | 6       | 2437            | 15.76               | 17.76         |              |
|             |                    | 11      | 2462            | 16.21               | 18.21         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 13.76               | 15.76         | 100.00       |
|             |                    | 6       | 2437            | 14.06               | 16.06         |              |
|             |                    | 9       | 2452            | 13.66               | 15.66         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 16.26               | 18.26         | 100.00       |
|             |                    | 6       | 2437            | 15.61               | 17.61         |              |
|             |                    | 11      | 2462            | 16.26               | 18.26         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.96               | 15.96         | 100.00       |
|             |                    | 6       | 2437            | 13.77               | 15.77         |              |
|             |                    | 9       | 2452            | 13.43               | 15.43         |              |

Reduced Power Level 2 for Head

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 16.96               | 18.96         | 98.35        |
|             |                    | 6       | 2437            | 16.86               | 18.86         |              |
|             |                    | 11      | 2462            | 16.71               | 18.71         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 14.11               | 16.11         | 99.04        |
|             |                    | 6       | 2437            | 13.57               | 15.57         |              |
|             |                    | 11      | 2462            | 13.86               | 15.86         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.76               | 16.76         |              |
|             |                    | 11      | 2462            | 15.01               | 17.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 12.76               | 14.76         | 100.00       |
|             |                    | 6       | 2437            | 12.86               | 14.86         |              |
|             |                    | 9       | 2452            | 12.76               | 14.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.91               | 16.91         |              |
|             |                    | 11      | 2462            | 15.16               | 17.16         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.57               | 14.57         |              |
|             |                    | 9       | 2452            | 12.63               | 14.63         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 15.39               | 17.39         | 98.77        |
|             |                     | 40      | 5200            | 15.39               | 17.39         |              |
|             |                     | 44      | 5220            | 15.65               | 17.65         |              |
|             | 802.11n-HT20 MCS0   | 48      | 5240            | 15.49               | 17.49         | 100.00       |
|             |                     | 36      | 5180            | 14.96               | 16.96         |              |
|             |                     | 40      | 5200            | 15.09               | 17.09         |              |
|             | 802.11n-HT40 MCS0   | 44      | 5220            | 14.98               | 16.98         | 100.00       |
|             |                     | 48      | 5240            | 14.96               | 16.96         |              |
|             |                     | 38      | 5190            | 15.20               | 17.20         |              |
|             | 802.11ac-VHT20 MCS0 | 46      | 5230            | 15.23               | 17.23         | 100.00       |
|             |                     | 36      | 5180            | 14.90               | 16.90         |              |
|             |                     | 40      | 5200            | 15.14               | 17.14         |              |
|             | 802.11ac-VHT40 MCS0 | 44      | 5220            | 15.09               | 17.09         | 100.00       |
|             |                     | 48      | 5240            | 15.01               | 17.01         |              |
|             |                     | 38      | 5190            | 15.12               | 17.12         |              |
|             | 802.11ac-VHT80 MCS0 | 46      | 5230            | 15.32               | 17.32         | 100.00       |
|             |                     | 42      | 5210            | 14.27               | 16.27         |              |
|             |                     | 36      | 5180            | 15.11               | 17.11         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 15.18               | 17.18         | 100.00       |
|             |                     | 44      | 5220            | 15.17               | 17.17         |              |
|             |                     | 48      | 5240            | 15.30               | 17.30         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 14.45               | 16.45         | 100.00       |
|             |                     | 46      | 5230            | 15.38               | 17.38         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 14.08               | 16.08         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 15.73               | 17.73         | 98.77        |
|             |                     | 56      | 5280            | 15.60               | 17.60         |              |
|             |                     | 60      | 5300            | 15.83               | 17.83         |              |
|             |                     | 64      | 5320            | 15.93               | 17.93         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 15.27               | 17.27         | 100.00       |
|             |                     | 56      | 5280            | 15.52               | 17.52         |              |
|             |                     | 60      | 5300            | 15.38               | 17.38         |              |
|             |                     | 64      | 5320            | 15.88               | 17.88         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 15.54               | 17.54         | 100.00       |
|             |                     | 62      | 5310            | 14.59               | 16.59         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 15.24               | 17.24         | 100.00       |
|             |                     | 56      | 5280            | 15.25               | 17.25         |              |
|             |                     | 60      | 5300            | 15.37               | 17.37         |              |
|             | 802.11ac-VHT40 MCS0 | 64      | 5320            | 15.64               | 17.64         | 100.00       |
|             |                     | 54      | 5270            | 15.40               | 17.40         |              |
|             | 802.11ac-VHT80 MCS0 | 62      | 5310            | 14.65               | 16.65         | 100.00       |
|             |                     | 58      | 5290            | 12.26               | 14.26         |              |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 15.44               | 17.44         | 100.00       |
|             |                     | 56      | 5280            | 15.23               | 17.23         |              |
|             |                     | 60      | 5300            | 15.45               | 17.45         |              |
|             |                     | 64      | 5320            | 15.59               | 17.59         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 15.73               | 17.73         | 100.00       |
|             |                     | 62      | 5310            | 13.81               | 15.81         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 14.42               | 16.42         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 100     | 5500            | 15.71               | 17.71         | 98.77        |
|             |                      | 116     | 5580            | 15.49               | 17.49         |              |
|             |                      | 124     | 5620            | 14.95               | 16.95         |              |
|             |                      | 132     | 5660            | 15.21               | 17.21         |              |
|             |                      | 140     | 5700            | 15.30               | 17.30         |              |
|             |                      | 144     | 5720            | 15.11               | 17.11         |              |
|             | 802.11n-HT20 MCS0    | 100     | 5500            | 14.44               | 16.44         | 100.00       |
|             |                      | 116     | 5580            | 15.36               | 17.36         |              |
|             |                      | 124     | 5620            | 15.17               | 17.17         |              |
|             |                      | 132     | 5660            | 15.20               | 17.20         |              |
|             |                      | 140     | 5700            | 14.56               | 16.56         |              |
|             |                      | 144     | 5720            | 15.00               | 17.00         |              |
|             | 802.11n-HT40 MCS0    | 102     | 5510            | 14.55               | 16.55         | 100.00       |
|             |                      | 110     | 5550            | 15.42               | 17.42         |              |
|             |                      | 126     | 5630            | 15.03               | 17.03         |              |
|             |                      | 134     | 5670            | 15.41               | 17.41         |              |
|             |                      | 142     | 5710            | 15.64               | 17.64         |              |
|             |                      | 100     | 5500            | 14.49               | 16.49         |              |
|             | 802.11ac-VHT20 MCS0  | 116     | 5580            | 15.15               | 17.15         | 100.00       |
|             |                      | 124     | 5620            | 14.92               | 16.92         |              |
|             |                      | 132     | 5660            | 14.99               | 16.99         |              |
|             |                      | 140     | 5700            | 14.47               | 16.47         |              |
|             |                      | 144     | 5720            | 15.13               | 17.13         |              |
|             |                      | 102     | 5510            | 14.64               | 16.64         |              |
|             | 802.11ac-VHT40 MCS0  | 110     | 5550            | 15.14               | 17.14         | 100.00       |
|             |                      | 126     | 5630            | 15.06               | 17.06         |              |
|             |                      | 134     | 5670            | 15.36               | 17.36         |              |
|             |                      | 142     | 5710            | 15.42               | 17.42         |              |
|             |                      | 106     | 5530            | 14.45               | 16.45         |              |
|             |                      | 122     | 5610            | 14.29               | 16.29         |              |
|             | 802.11ac-VHT160 MCS0 | 138     | 5690            | 14.36               | 16.36         | 100.00       |
|             |                      | 114     | 5570            | 15.16               | 17.16         |              |
|             | 802.11ax-HE20 MCS0   | 100     | 5500            | 15.29               | 17.29         |              |
|             |                      | 116     | 5580            | 15.18               | 17.18         |              |
|             |                      | 124     | 5620            | 15.25               | 17.25         |              |
|             |                      | 132     | 5660            | 15.20               | 17.20         |              |
|             |                      | 140     | 5700            | 13.22               | 15.22         |              |
|             |                      | 144     | 5720            | 14.91               | 16.91         |              |
|             | 802.11ax-HE40 MCS0   | 102     | 5510            | 15.57               | 17.57         | 100.00       |
|             |                      | 110     | 5550            | 15.27               | 17.27         |              |
|             |                      | 126     | 5630            | 15.25               | 17.25         |              |
|             |                      | 134     | 5670            | 15.18               | 17.18         |              |
|             |                      | 142     | 5710            | 14.93               | 16.93         |              |
|             | 802.11ax-HE80 MCS0   | 106     | 5530            | 14.63               | 16.63         | 100.00       |
|             |                      | 122     | 5610            | 13.92               | 15.92         |              |
|             |                      | 138     | 5690            | 13.80               | 15.80         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 15.24               | 17.24         | 98.77        |
|             |                     | 157     | 5785            | 15.05               | 17.05         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 15.35               | 17.35         | 100.00       |
|             |                     | 157     | 5785            | 15.44               | 17.44         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 15.62               | 17.62         | 100.00       |
|             |                     | 159     | 5795            | 15.46               | 17.46         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 15.19               | 17.19         | 100.00       |
|             |                     | 157     | 5785            | 15.30               | 17.30         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 15.47               | 17.47         | 100.00       |
|             |                     | 159     | 5795            | 15.56               | 17.56         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.15               | 15.15         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 15.19               | 17.19         | 100.00       |
|             |                     | 157     | 5785            | 14.95               | 16.95         |              |
|             |                     | 165     | 5825            | 15.14               | 17.14         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 15.43               | 17.43         | 100.00       |
|             |                     | 159     | 5795            | 15.09               | 17.09         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 14.21               | 16.21         | 100.00       |

Reduced Power Level 3 for Head

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 16.96               | 18.96         | 98.35        |
|             |                    | 6       | 2437            | 16.86               | 18.86         |              |
|             |                    | 11      | 2462            | 16.71               | 18.71         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 14.11               | 16.11         | 99.04        |
|             |                    | 6       | 2437            | 13.57               | 15.57         |              |
|             |                    | 11      | 2462            | 13.86               | 15.86         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.76               | 16.76         |              |
|             |                    | 11      | 2462            | 15.01               | 17.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 12.76               | 14.76         | 100.00       |
|             |                    | 6       | 2437            | 12.86               | 14.86         |              |
|             |                    | 9       | 2452            | 12.76               | 14.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.91               | 16.91         |              |
|             |                    | 11      | 2462            | 15.16               | 17.16         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.57               | 14.57         |              |
|             |                    | 9       | 2452            | 12.63               | 14.63         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 14.47               | 16.47         | 98.77        |
|             |                     | 40      | 5200            | 14.47               | 16.47         |              |
|             |                     | 44      | 5220            | 14.56               | 16.56         |              |
|             |                     | 48      | 5240            | 14.55               | 16.55         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 13.99               | 15.99         | 100.00       |
|             |                     | 40      | 5200            | 14.12               | 16.12         |              |
|             |                     | 44      | 5220            | 13.98               | 15.98         |              |
|             |                     | 48      | 5240            | 13.85               | 15.85         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 14.25               | 16.25         | 100.00       |
|             |                     | 46      | 5230            | 14.30               | 16.30         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.98               | 15.98         | 100.00       |
|             |                     | 40      | 5200            | 14.16               | 16.16         |              |
|             |                     | 44      | 5220            | 14.04               | 16.04         |              |
|             |                     | 48      | 5240            | 13.99               | 15.99         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 14.00               | 16.00         | 100.00       |
|             |                     | 46      | 5230            | 14.13               | 16.13         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.38               | 15.38         | 100.00       |
|             |                     | 36      | 5180            | 14.23               | 16.23         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 14.06               | 16.06         | 100.00       |
|             |                     | 44      | 5220            | 14.30               | 16.30         |              |
|             |                     | 48      | 5240            | 14.16               | 16.16         |              |
|             |                     | 38      | 5190            | 13.42               | 15.42         | 100.00       |
|             | 802.11ax-HE40 MCS0  | 46      | 5230            | 14.38               | 16.38         |              |
|             |                     | 42      | 5210            | 13.13               | 15.13         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 14.94               | 16.94         | 98.77        |
|             |                     | 56      | 5280            | 14.55               | 16.55         |              |
|             |                     | 60      | 5300            | 14.65               | 16.65         |              |
|             |                     | 64      | 5320            | 14.95               | 16.95         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 14.16               | 16.16         | 100.00       |
|             |                     | 56      | 5280            | 14.42               | 16.42         |              |
|             |                     | 60      | 5300            | 14.46               | 16.46         |              |
|             |                     | 64      | 5320            | 14.71               | 16.71         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 14.65               | 16.65         | 100.00       |
|             |                     | 62      | 5310            | 13.71               | 15.71         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 14.44               | 16.44         | 100.00       |
|             |                     | 56      | 5280            | 14.29               | 16.29         |              |
|             |                     | 60      | 5300            | 14.51               | 16.51         |              |
|             |                     | 64      | 5320            | 14.58               | 16.58         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 14.46               | 16.46         | 100.00       |
|             |                     | 62      | 5310            | 13.56               | 15.56         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 11.31               | 13.31         | 100.00       |
|             |                     | 52      | 5260            | 14.28               | 16.28         |              |
|             | 802.11ax-HE20 MCS0  | 56      | 5280            | 14.55               | 16.55         | 100.00       |
|             |                     | 60      | 5300            | 14.42               | 16.42         |              |
|             |                     | 64      | 5320            | 14.54               | 16.54         |              |
|             |                     | 54      | 5270            | 14.61               | 16.61         | 100.00       |
|             | 802.11ax-HE40 MCS0  | 62      | 5310            | 12.94               | 14.94         |              |
|             |                     | 58      | 5290            | 13.33               | 15.33         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 100     | 5500            | 14.81               | 16.81         | 98.77        |
|             |                      | 116     | 5580            | 14.39               | 16.39         |              |
|             |                      | 124     | 5620            | 14.01               | 16.01         |              |
|             |                      | 132     | 5660            | 14.07               | 16.07         |              |
|             |                      | 140     | 5700            | 14.34               | 16.34         |              |
|             |                      | 144     | 5720            | 14.23               | 16.23         |              |
|             | 802.11n-HT20 MCS0    | 100     | 5500            | 13.38               | 15.38         | 100.00       |
|             |                      | 116     | 5580            | 14.19               | 16.19         |              |
|             |                      | 124     | 5620            | 14.29               | 16.29         |              |
|             |                      | 132     | 5660            | 14.13               | 16.13         |              |
|             |                      | 140     | 5700            | 13.51               | 15.51         |              |
|             |                      | 144     | 5720            | 14.00               | 16.00         |              |
|             | 802.11n-HT40 MCS0    | 102     | 5510            | 13.71               | 15.71         | 100.00       |
|             |                      | 110     | 5550            | 14.35               | 16.35         |              |
|             |                      | 126     | 5630            | 14.30               | 16.30         |              |
|             |                      | 134     | 5670            | 14.54               | 16.54         |              |
|             |                      | 142     | 5710            | 14.57               | 16.57         |              |
|             |                      | 144     | 5720            | 13.95               | 15.95         |              |
|             | 802.11ac-VHT20 MCS0  | 100     | 5500            | 13.46               | 15.46         | 100.00       |
|             |                      | 116     | 5580            | 14.08               | 16.08         |              |
|             |                      | 124     | 5620            | 14.06               | 16.06         |              |
|             |                      | 132     | 5660            | 13.96               | 15.96         |              |
|             |                      | 140     | 5700            | 13.57               | 15.57         |              |
|             |                      | 144     | 5720            | 13.95               | 15.95         |              |
|             | 802.11ac-VHT40 MCS0  | 102     | 5510            | 13.68               | 15.68         | 100.00       |
|             |                      | 110     | 5550            | 14.17               | 16.17         |              |
|             |                      | 126     | 5630            | 13.93               | 15.93         |              |
|             |                      | 134     | 5670            | 14.29               | 16.29         |              |
|             |                      | 142     | 5710            | 14.61               | 16.61         |              |
|             |                      | 144     | 5720            | 13.95               | 15.95         |              |
|             | 802.11ac-VHT80 MCS0  | 106     | 5530            | 13.39               | 15.39         | 100.00       |
|             |                      | 122     | 5610            | 13.17               | 15.17         |              |
|             |                      | 138     | 5690            | 13.12               | 15.12         |              |
|             | 802.11ac-VHT160 MCS0 | 114     | 5570            | 14.11               | 16.11         | 100.00       |
|             |                      | 100     | 5500            | 14.22               | 16.22         |              |
|             |                      | 116     | 5580            | 14.24               | 16.24         |              |
|             |                      | 124     | 5620            | 14.30               | 16.30         |              |
|             |                      | 132     | 5660            | 14.20               | 16.20         |              |
|             |                      | 140     | 5700            | 12.16               | 14.16         |              |
|             | 802.11ax-HE20 MCS0   | 144     | 5720            | 13.97               | 15.97         | 100.00       |
|             |                      | 102     | 5510            | 14.63               | 16.63         |              |
|             |                      | 110     | 5550            | 14.27               | 16.27         |              |
|             |                      | 126     | 5630            | 14.23               | 16.23         |              |
|             |                      | 134     | 5670            | 14.25               | 16.25         |              |
|             |                      | 142     | 5710            | 13.93               | 15.93         |              |
|             | 802.11ax-HE40 MCS0   | 106     | 5530            | 13.37               | 15.37         | 100.00       |
|             |                      | 122     | 5610            | 12.89               | 14.89         |              |
|             |                      | 138     | 5690            | 12.78               | 14.78         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 14.24               | 16.24         | 98.77        |
|             |                     | 157     | 5785            | 14.05               | 16.05         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.35               | 16.35         | 100.00       |
|             |                     | 157     | 5785            | 14.44               | 16.44         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.62               | 16.62         | 100.00       |
|             |                     | 159     | 5795            | 14.46               | 16.46         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 14.19               | 16.19         | 100.00       |
|             |                     | 157     | 5785            | 14.30               | 16.30         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 14.47               | 16.47         | 100.00       |
|             |                     | 159     | 5795            | 14.56               | 16.56         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.15               | 14.15         | 100.00       |
|             |                     | 149     | 5745            | 14.19               | 16.19         |              |
|             |                     | 157     | 5785            | 13.95               | 15.95         |              |
|             | 802.11ax-HE20 MCS0  | 165     | 5825            | 14.14               | 16.14         | 100.00       |
|             |                     | 151     | 5755            | 14.43               | 16.43         |              |
|             |                     | 159     | 5795            | 14.09               | 16.09         |              |
|             | 802.11ax-HE40 MCS0  | 155     | 5775            | 13.21               | 15.21         | 100.00       |
|             |                     | 155     | 5775            | 13.21               | 15.21         |              |

Reduced Power Level 4 for Head

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 15.06               | 17.06         | 98.35        |
|             |                    | 6       | 2437            | 14.66               | 16.66         |              |
|             |                    | 11      | 2462            | 14.81               | 16.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 12.11               | 14.11         | 99.04        |
|             |                    | 6       | 2437            | 11.57               | 13.57         |              |
|             |                    | 11      | 2462            | 12.06               | 14.06         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.96               | 14.96         |              |
|             |                    | 11      | 2462            | 12.91               | 14.91         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 10.76               | 12.76         | 100.00       |
|             |                    | 6       | 2437            | 10.96               | 12.96         |              |
|             |                    | 9       | 2452            | 10.86               | 12.86         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.61               | 14.61         |              |
|             |                    | 11      | 2462            | 12.96               | 14.96         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 10.86               | 12.86         | 100.00       |
|             |                    | 6       | 2437            | 10.67               | 12.67         |              |
|             |                    | 9       | 2452            | 10.63               | 12.63         |              |

| 5GHz WLAN |                     | Ant 1+2 |                 |                     |               |              |
|-----------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|           | 802.11a 6Mbps       | 36      | 5180            | 13.56               | 15.56         | 98.77        |
|           |                     | 40      | 5200            | 13.57               | 15.57         |              |
|           |                     | 44      | 5220            | 13.71               | 15.71         |              |
|           |                     | 48      | 5240            | 13.63               | 15.63         |              |
|           | 802.11n-HT20 MCS0   | 36      | 5180            | 12.94               | 14.94         | 100.00       |
|           |                     | 40      | 5200            | 13.12               | 15.12         |              |
|           |                     | 44      | 5220            | 13.01               | 15.01         |              |
|           |                     | 48      | 5240            | 12.92               | 14.92         |              |
|           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.30               | 15.30         | 100.00       |
|           |                     | 46      | 5230            | 13.17               | 15.17         |              |
|           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.86               | 14.86         | 100.00       |
|           |                     | 40      | 5200            | 13.00               | 15.00         |              |
|           |                     | 44      | 5220            | 13.05               | 15.05         |              |
|           |                     | 48      | 5240            | 12.95               | 14.95         |              |
|           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.18               | 15.18         | 100.00       |
|           |                     | 46      | 5230            | 13.32               | 15.32         |              |
|           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.37               | 14.37         | 100.00       |
|           |                     | 36      | 5180            | 13.07               | 15.07         |              |
|           | 802.11ax-HE20 MCS0  | 40      | 5200            | 12.98               | 14.98         | 100.00       |
|           |                     | 44      | 5220            | 13.19               | 15.19         |              |
|           |                     | 48      | 5240            | 13.18               | 15.18         |              |
|           |                     | 38      | 5190            | 12.36               | 14.36         | 100.00       |
|           | 802.11ax-HE40 MCS0  | 46      | 5230            | 13.24               | 15.24         |              |
|           |                     | 42      | 5210            | 12.06               | 14.06         | 100.00       |

| 5GHz WLAN |                     | Ant 1+2 |                 |                     |               |              |
|-----------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|           | 802.11a 6Mbps       | 52      | 5260            | 13.95               | 15.95         | 98.77        |
|           |                     | 56      | 5280            | 13.50               | 15.50         |              |
|           |                     | 60      | 5300            | 13.93               | 15.93         |              |
|           |                     | 64      | 5320            | 13.99               | 15.99         |              |
|           | 802.11n-HT20 MCS0   | 52      | 5260            | 13.19               | 15.19         | 100.00       |
|           |                     | 56      | 5280            | 13.59               | 15.59         |              |
|           |                     | 60      | 5300            | 13.59               | 15.59         |              |
|           |                     | 64      | 5320            | 13.60               | 15.60         |              |
|           | 802.11n-HT40 MCS0   | 54      | 5270            | 13.61               | 15.61         | 100.00       |
|           |                     | 62      | 5310            | 12.45               | 14.45         |              |
|           | 802.11ac-VHT20 MCS0 | 52      | 5260            | 13.30               | 15.30         | 100.00       |
|           |                     | 56      | 5280            | 13.29               | 15.29         |              |
|           |                     | 60      | 5300            | 13.50               | 15.50         |              |
|           |                     | 64      | 5320            | 13.65               | 15.65         |              |
|           | 802.11ac-VHT40 MCS0 | 54      | 5270            | 13.65               | 15.65         | 100.00       |
|           |                     | 62      | 5310            | 12.48               | 14.48         |              |
|           | 802.11ac-VHT80 MCS0 | 58      | 5290            | 10.22               | 12.22         | 100.00       |
|           |                     | 52      | 5260            | 13.32               | 15.32         |              |
|           | 802.11ax-HE20 MCS0  | 56      | 5280            | 13.52               | 15.52         | 100.00       |
|           |                     | 60      | 5300            | 13.46               | 15.46         |              |
|           |                     | 64      | 5320            | 13.58               | 15.58         |              |
|           |                     | 54      | 5270            | 13.66               | 15.66         | 100.00       |
|           | 802.11ax-HE40 MCS0  | 62      | 5310            | 11.84               | 13.84         |              |
|           |                     | 58      | 5290            | 12.28               | 14.28         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2              |                 |                     |               |              |
|-------------|---------------------|----------------------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                | Channel              | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 100                  | 5500            | 13.87               | 15.87         | 98.77        |
|             |                     | 116                  | 5580            | 13.32               | 15.32         |              |
|             |                     | 124                  | 5620            | 13.20               | 15.20         |              |
|             |                     | 132                  | 5660            | 13.07               | 15.07         |              |
|             |                     | 140                  | 5700            | 13.16               | 15.16         |              |
|             |                     | 144                  | 5720            | 13.12               | 15.12         |              |
|             | 802.11n-HT20 MCS0   | 100                  | 5500            | 12.36               | 14.36         | 100.00       |
|             |                     | 116                  | 5580            | 13.10               | 15.10         |              |
|             |                     | 124                  | 5620            | 13.16               | 15.16         |              |
|             |                     | 132                  | 5660            | 13.14               | 15.14         |              |
|             |                     | 140                  | 5700            | 12.39               | 14.39         |              |
|             |                     | 144                  | 5720            | 12.97               | 14.97         |              |
|             | 802.11n-HT40 MCS0   | 102                  | 5510            | 12.77               | 14.77         | 100.00       |
|             |                     | 110                  | 5550            | 13.30               | 15.30         |              |
|             |                     | 126                  | 5630            | 13.19               | 15.19         |              |
|             |                     | 134                  | 5670            | 13.45               | 15.45         |              |
|             |                     | 142                  | 5710            | 13.63               | 15.63         |              |
|             |                     | 100                  | 5500            | 12.37               | 14.37         |              |
|             | 802.11ac-VHT20 MCS0 | 116                  | 5580            | 13.04               | 15.04         | 100.00       |
|             |                     | 124                  | 5620            | 13.17               | 15.17         |              |
|             |                     | 132                  | 5660            | 12.92               | 14.92         |              |
|             |                     | 140                  | 5700            | 12.45               | 14.45         |              |
|             |                     | 144                  | 5720            | 12.98               | 14.98         |              |
|             |                     | 102                  | 5510            | 12.62               | 14.62         |              |
|             | 802.11ac-VHT40 MCS0 | 110                  | 5550            | 13.14               | 15.14         | 100.00       |
|             |                     | 126                  | 5630            | 13.17               | 15.17         |              |
|             |                     | 134                  | 5670            | 13.29               | 15.29         |              |
|             |                     | 142                  | 5710            | 13.61               | 15.61         |              |
|             |                     | 106                  | 5530            | 12.35               | 14.35         |              |
|             |                     | 122                  | 5610            | 12.09               | 14.09         |              |
|             | 802.11ac-VHT80 MCS0 | 138                  | 5690            | 12.21               | 14.21         | 100.00       |
|             |                     | 802.11ac-VHT160 MCS0 | 114             | 5570                | 13.10         |              |
|             | 802.11ax-HE20 MCS0  | 100                  | 5500            | 13.28               | 15.28         | 100.00       |
|             |                     | 116                  | 5580            | 13.17               | 15.17         |              |
|             |                     | 124                  | 5620            | 13.26               | 15.26         |              |
|             |                     | 132                  | 5660            | 13.06               | 15.06         |              |
|             |                     | 140                  | 5700            | 11.30               | 13.30         |              |
|             |                     | 144                  | 5720            | 12.92               | 14.92         |              |
|             | 802.11ax-HE40 MCS0  | 102                  | 5510            | 13.49               | 15.49         | 100.00       |
|             |                     | 110                  | 5550            | 13.24               | 15.24         |              |
|             |                     | 126                  | 5630            | 13.18               | 15.18         |              |
|             |                     | 134                  | 5670            | 13.10               | 15.10         |              |
|             |                     | 142                  | 5710            | 12.86               | 14.86         |              |
|             |                     | 106                  | 5530            | 12.37               | 14.37         |              |
|             | 802.11ax-HE80 MCS0  | 122                  | 5610            | 11.99               | 13.99         | 100.00       |
|             |                     | 138                  | 5690            | 11.75               | 13.75         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 13.53               | 15.53         | 98.77        |
|             |                     | 157     | 5785            | 13.20               | 15.20         |              |
|             |                     | 165     | 5825            | 13.04               | 15.04         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 13.39               | 15.39         | 100.00       |
|             |                     | 157     | 5785            | 13.44               | 15.44         |              |
|             |                     | 165     | 5825            | 13.24               | 15.24         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 13.58               | 15.58         | 100.00       |
|             |                     | 159     | 5795            | 13.49               | 15.49         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 13.34               | 15.34         | 100.00       |
|             |                     | 157     | 5785            | 13.25               | 15.25         |              |
|             |                     | 165     | 5825            | 13.12               | 15.12         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 13.51               | 15.51         | 100.00       |
|             |                     | 159     | 5795            | 13.49               | 15.49         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.25               | 13.25         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 13.20               | 15.20         | 100.00       |
|             |                     | 157     | 5785            | 12.93               | 14.93         |              |
|             |                     | 165     | 5825            | 13.21               | 15.21         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 13.55               | 15.55         | 100.00       |
|             |                     | 159     | 5795            | 13.12               | 15.12         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.12               | 14.12         | 100.00       |

Reduced Power Level 1 for Hotspot

| 2.4GHz WLAN | Ant 1+2            |         |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 19.96               | 21.96         | 98.35        |
|             |                    | 6       | 2437            | 18.66               | 20.66         |              |
|             |                    | 11      | 2462            | 18.81               | 20.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 16.11               | 18.11         | 99.04        |
|             |                    | 6       | 2437            | 15.47               | 17.47         |              |
|             |                    | 11      | 2462            | 16.16               | 18.16         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 17.06               | 19.06         | 100.00       |
|             |                    | 6       | 2437            | 16.86               | 18.86         |              |
|             |                    | 11      | 2462            | 16.91               | 18.91         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 14.76               | 16.76         | 100.00       |
|             |                    | 6       | 2437            | 15.06               | 17.06         |              |
|             |                    | 9       | 2452            | 14.76               | 16.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 17.06               | 19.06         | 100.00       |
|             |                    | 6       | 2437            | 16.91               | 18.91         |              |
|             |                    | 11      | 2462            | 16.86               | 18.86         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.77               | 16.77         |              |
|             |                    | 9       | 2452            | 14.53               | 16.53         |              |

| 5GHz WLAN   | Ant 1+2             |         |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 15.24               | 17.24         | 98.77        |
|             |                     | 157     | 5785            | 15.05               | 17.05         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 15.35               | 17.35         | 100.00       |
|             |                     | 157     | 5785            | 15.44               | 17.44         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 16.62               | 17.62         | 100.00       |
|             |                     | 159     | 5795            | 15.46               | 17.46         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 15.19               | 17.19         | 100.00       |
|             |                     | 157     | 5785            | 15.30               | 17.30         |              |
|             |                     | 165     | 5825            | 15.20               | 17.20         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 15.47               | 17.47         | 100.00       |
|             |                     | 159     | 5795            | 15.56               | 17.56         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.15               | 15.15         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 15.19               | 17.19         | 100.00       |
|             |                     | 157     | 5785            | 14.95               | 16.95         |              |
|             |                     | 165     | 5825            | 15.14               | 17.14         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 15.43               | 17.43         | 100.00       |
|             |                     | 159     | 5795            | 15.09               | 17.09         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 14.21               | 16.21         | 100.00       |

Reduced Power Level 2 for Hotspot

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 17.96               | 19.96         | 98.35        |
|             |                    | 6       | 2437            | 17.66               | 19.66         |              |
|             |                    | 11      | 2462            | 17.81               | 19.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 15.11               | 17.11         | 99.04        |
|             |                    | 6       | 2437            | 14.57               | 16.57         |              |
|             |                    | 11      | 2462            | 14.96               | 16.96         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 16.06               | 18.06         | 100.00       |
|             |                    | 6       | 2437            | 15.76               | 17.76         |              |
|             |                    | 11      | 2462            | 16.21               | 18.21         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 13.76               | 15.76         | 100.00       |
|             |                    | 6       | 2437            | 14.06               | 16.06         |              |
|             |                    | 9       | 2452            | 13.66               | 15.66         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 16.26               | 18.26         | 100.00       |
|             |                    | 6       | 2437            | 15.61               | 17.61         |              |
|             |                    | 11      | 2462            | 16.26               | 18.26         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.96               | 15.96         | 100.00       |
|             |                    | 6       | 2437            | 13.77               | 15.77         |              |
|             |                    | 9       | 2452            | 13.43               | 15.43         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 15.39               | 17.39         | 98.77        |
|             |                     | 40      | 5200            | 15.39               | 17.39         |              |
|             |                     | 44      | 5220            | 15.65               | 17.65         |              |
|             | 802.11n-HT20 MCS0   | 48      | 5240            | 15.49               | 17.49         | 100.00       |
|             |                     | 36      | 5180            | 14.96               | 16.96         |              |
|             |                     | 40      | 5200            | 15.09               | 17.09         |              |
|             | 802.11n-HT40 MCS0   | 44      | 5220            | 14.98               | 16.98         | 100.00       |
|             |                     | 48      | 5240            | 14.96               | 16.96         |              |
|             |                     | 38      | 5190            | 15.20               | 17.20         |              |
|             | 802.11ac-VHT20 MCS0 | 46      | 5230            | 15.23               | 17.23         | 100.00       |
|             |                     | 36      | 5180            | 14.90               | 16.90         |              |
|             |                     | 40      | 5200            | 15.14               | 17.14         |              |
|             | 802.11ac-VHT40 MCS0 | 44      | 5220            | 15.09               | 17.09         | 100.00       |
|             |                     | 48      | 5240            | 15.01               | 17.01         |              |
|             |                     | 38      | 5190            | 15.12               | 17.12         |              |
|             | 802.11ac-VHT80 MCS0 | 46      | 5230            | 15.32               | 17.32         | 100.00       |
|             |                     | 42      | 5210            | 14.27               | 16.27         |              |
|             |                     | 36      | 5180            | 15.11               | 17.11         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 15.18               | 17.18         | 100.00       |
|             |                     | 44      | 5220            | 15.17               | 17.17         |              |
|             |                     | 48      | 5240            | 15.30               | 17.30         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 14.45               | 16.45         | 100.00       |
|             |                     | 46      | 5230            | 15.38               | 17.38         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 14.08               | 16.08         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 14.24               | 16.24         | 98.77        |
|             |                     | 157     | 5785            | 14.05               | 16.05         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.35               | 16.35         | 100.00       |
|             |                     | 157     | 5785            | 14.44               | 16.44         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.62               | 16.62         | 100.00       |
|             |                     | 159     | 5795            | 14.46               | 16.46         |              |
|             |                     | 149     | 5745            | 14.19               | 16.19         |              |
|             | 802.11ac-VHT20 MCS0 | 157     | 5785            | 14.30               | 16.30         | 100.00       |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             |                     | 151     | 5755            | 14.47               | 16.47         |              |
|             | 802.11ac-VHT40 MCS0 | 159     | 5795            | 14.56               | 16.56         | 100.00       |
|             |                     | 155     | 5775            | 12.15               | 14.15         |              |
|             |                     | 149     | 5745            | 14.19               | 16.19         |              |
|             | 802.11ax-HE20 MCS0  | 157     | 5785            | 13.95               | 15.95         | 100.00       |
|             |                     | 165     | 5825            | 14.14               | 16.14         |              |
|             |                     | 151     | 5755            | 14.43               | 16.43         |              |
|             | 802.11ax-HE40 MCS0  | 159     | 5795            | 14.09               | 16.09         | 100.00       |
|             |                     | 155     | 5775            | 13.21               | 15.21         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 13.21               | 15.21         | 100.00       |

Reduced Power Level 3 for Hotspot

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 15.06               | 17.06         | 98.35        |
|             |                    | 6       | 2437            | 14.66               | 16.66         |              |
|             |                    | 11      | 2462            | 14.81               | 16.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 12.11               | 14.11         | 99.04        |
|             |                    | 6       | 2437            | 11.57               | 13.57         |              |
|             |                    | 11      | 2462            | 12.06               | 14.06         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.96               | 14.96         |              |
|             |                    | 11      | 2462            | 12.91               | 14.91         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 10.76               | 12.76         | 100.00       |
|             |                    | 6       | 2437            | 10.96               | 12.96         |              |
|             |                    | 9       | 2452            | 10.86               | 12.86         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.61               | 14.61         |              |
|             |                    | 11      | 2462            | 12.96               | 14.96         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 10.86               | 12.86         | 100.00       |
|             |                    | 6       | 2437            | 10.67               | 12.67         |              |
|             |                    | 9       | 2452            | 10.63               | 12.63         |              |

| 5GHz WLAN |                     | Ant 1+2 |                 |                     |               |              |
|-----------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|           | 802.11a 6Mbps       | 36      | 5180            | 13.56               | 15.56         | 98.77        |
|           |                     | 40      | 5200            | 13.57               | 15.57         |              |
|           |                     | 44      | 5220            | 13.71               | 15.71         |              |
|           |                     | 48      | 5240            | 13.63               | 15.63         |              |
|           | 802.11n-HT20 MCS0   | 36      | 5180            | 12.94               | 14.94         | 100.00       |
|           |                     | 40      | 5200            | 13.12               | 15.12         |              |
|           |                     | 44      | 5220            | 13.01               | 15.01         |              |
|           |                     | 48      | 5240            | 12.92               | 14.92         |              |
|           | 802.11n-HT40 MCS0   | 38      | 5190            | 13.30               | 15.30         | 100.00       |
|           |                     | 46      | 5230            | 13.17               | 15.17         |              |
|           | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.86               | 14.86         | 100.00       |
|           |                     | 40      | 5200            | 13.00               | 15.00         |              |
|           |                     | 44      | 5220            | 13.05               | 15.05         |              |
|           |                     | 48      | 5240            | 12.95               | 14.95         |              |
|           | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.18               | 15.18         | 100.00       |
|           |                     | 46      | 5230            | 13.32               | 15.32         |              |
|           | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.37               | 14.37         | 100.00       |
|           |                     | 36      | 5180            | 13.07               | 15.07         |              |
|           | 802.11ax-HE20 MCS0  | 40      | 5200            | 12.98               | 14.98         | 100.00       |
|           |                     | 44      | 5220            | 13.19               | 15.19         |              |
|           |                     | 48      | 5240            | 13.18               | 15.18         |              |
|           |                     | 38      | 5190            | 12.36               | 14.36         | 100.00       |
|           | 802.11ax-HE40 MCS0  | 46      | 5230            | 13.24               | 15.24         |              |
|           |                     | 42      | 5210            | 12.06               | 14.06         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 12.53               | 14.53         | 98.77        |
|             |                     | 157     | 5765            | 12.20               | 14.20         |              |
|             |                     | 165     | 5825            | 12.04               | 14.04         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 12.39               | 14.39         | 100.00       |
|             |                     | 157     | 5765            | 12.44               | 14.44         |              |
|             |                     | 165     | 5825            | 12.24               | 14.24         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 12.58               | 14.58         | 100.00       |
|             |                     | 159     | 5795            | 12.49               | 14.49         |              |
|             |                     | 149     | 5745            | 12.34               | 14.34         | 100.00       |
|             | 802.11ac-VHT20 MCS0 | 157     | 5765            | 12.25               | 14.25         |              |
|             |                     | 165     | 5825            | 12.12               | 14.12         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 12.51               | 14.51         | 100.00       |
|             |                     | 159     | 5795            | 12.49               | 14.49         |              |
|             |                     | 155     | 5775            | 10.25               | 12.25         | 100.00       |
|             | 802.11ac-VHT80 MCS0 | 149     | 5745            | 12.20               | 14.20         | 100.00       |
|             |                     | 157     | 5765            | 11.93               | 13.93         |              |
|             |                     | 165     | 5825            | 12.21               | 14.21         |              |
|             | 802.11ax-HE20 MCS0  | 151     | 5755            | 12.55               | 14.55         | 100.00       |
|             |                     | 159     | 5795            | 12.12               | 14.12         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.12               | 13.12         | 100.00       |

Reduced Power Level 4 for Hotspot

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 13.86               | 15.66         | 98.35        |
|             |                    | 6       | 2437            | 13.66               | 15.66         |              |
|             |                    | 11      | 2462            | 13.61               | 15.61         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 11.21               | 13.21         | 99.04        |
|             |                    | 6       | 2437            | 10.77               | 12.77         |              |
|             |                    | 11      | 2462            | 10.86               | 12.86         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 12.26               | 14.26         | 100.00       |
|             |                    | 6       | 2437            | 11.76               | 13.76         |              |
|             |                    | 11      | 2462            | 12.01               | 14.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 9.56                | 11.56         | 100.00       |
|             |                    | 6       | 2437            | 10.16               | 12.16         |              |
|             |                    | 9       | 2452            | 9.76                | 11.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 12.36               | 14.36         | 100.00       |
|             |                    | 6       | 2437            | 11.81               | 13.81         |              |
|             |                    | 11      | 2462            | 11.86               | 13.86         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 9.96                | 11.96         | 100.00       |
|             |                    | 6       | 2437            | 9.97                | 11.97         |              |
|             |                    | 9       | 2452            | 8.43                | 11.43         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 13.56               | 15.56         | 98.77        |
|             |                     | 40      | 5200            | 13.57               | 15.57         |              |
|             |                     | 44      | 5220            | 13.71               | 15.71         |              |
|             | 802.11n-HT20 MCS0   | 48      | 5240            | 13.63               | 15.63         | 100.00       |
|             |                     | 36      | 5180            | 12.94               | 14.94         |              |
|             |                     | 40      | 5200            | 13.12               | 15.12         |              |
|             | 802.11n-HT40 MCS0   | 44      | 5220            | 13.01               | 15.01         | 100.00       |
|             |                     | 48      | 5240            | 12.92               | 14.92         |              |
|             |                     | 38      | 5190            | 13.30               | 15.30         |              |
|             | 802.11ac-VHT20 MCS0 | 46      | 5230            | 13.17               | 15.17         | 100.00       |
|             |                     | 36      | 5180            | 12.86               | 14.86         |              |
|             |                     | 40      | 5200            | 13.00               | 15.00         |              |
|             | 802.11ac-VHT40 MCS0 | 44      | 5220            | 13.05               | 15.05         | 100.00       |
|             |                     | 48      | 5240            | 12.95               | 14.95         |              |
|             |                     | 38      | 5190            | 13.18               | 15.18         |              |
|             | 802.11ac-VHT80 MCS0 | 46      | 5230            | 13.32               | 15.32         | 100.00       |
|             |                     | 42      | 5210            | 12.37               | 14.37         |              |
|             |                     | 36      | 5180            | 13.07               | 15.07         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 12.98               | 14.98         | 100.00       |
|             |                     | 44      | 5220            | 13.19               | 15.19         |              |
|             |                     | 48      | 5240            | 13.18               | 15.18         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 12.36               | 14.36         | 100.00       |
|             |                     | 46      | 5230            | 13.24               | 15.24         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 12.06               | 14.06         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 11.57               | 13.57         | 98.77        |
|             |                     | 157     | 5785            | 11.22               | 13.22         |              |
|             |                     | 165     | 5825            | 11.27               | 13.27         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 11.28               | 13.28         | 100.00       |
|             |                     | 157     | 5785            | 11.30               | 13.30         |              |
|             |                     | 165     | 5825            | 11.38               | 13.38         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 11.62               | 13.62         | 100.00       |
|             |                     | 159     | 5795            | 11.61               | 13.61         |              |
|             |                     | 149     | 5745            | 11.26               | 13.26         |              |
|             | 802.11ac-VHT20 MCS0 | 157     | 5785            | 11.35               | 13.35         | 100.00       |
|             |                     | 165     | 5825            | 11.21               | 13.21         |              |
|             |                     | 151     | 5755            | 11.62               | 13.62         |              |
|             | 802.11ac-VHT40 MCS0 | 159     | 5795            | 11.61               | 13.61         | 100.00       |
|             |                     | 155     | 5775            | 9.26                | 11.26         |              |
|             |                     | 149     | 5745            | 11.22               | 13.22         |              |
|             | 802.11ax-HE20 MCS0  | 157     | 5785            | 11.26               | 13.26         | 100.00       |
|             |                     | 165     | 5825            | 11.23               | 13.23         |              |
|             |                     | 151     | 5755            | 11.24               | 13.24         |              |
|             | 802.11ax-HE40 MCS0  | 159     | 5795            | 11.17               | 13.17         | 100.00       |
|             |                     | 155     | 5775            | 10.02               | 12.02         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 10.02               | 12.02         | 100.00       |

Reduced Power Level 2 for Body/Product Specific

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 17.96               | 19.96         | 98.35        |
|             |                    | 6       | 2437            | 17.66               | 19.66         |              |
|             |                    | 11      | 2462            | 17.81               | 19.81         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 15.11               | 17.11         | 99.04        |
|             |                    | 6       | 2437            | 14.57               | 16.57         |              |
|             |                    | 11      | 2462            | 14.96               | 16.96         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 16.06               | 18.06         | 100.00       |
|             |                    | 6       | 2437            | 15.76               | 17.76         |              |
|             |                    | 11      | 2462            | 16.21               | 18.21         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 13.76               | 15.76         | 100.00       |
|             |                    | 6       | 2437            | 14.06               | 16.06         |              |
|             |                    | 9       | 2452            | 13.66               | 15.66         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 16.26               | 18.26         | 100.00       |
|             |                    | 6       | 2437            | 15.61               | 17.61         |              |
|             |                    | 11      | 2462            | 16.26               | 18.26         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.96               | 15.96         | 100.00       |
|             |                    | 6       | 2437            | 13.77               | 15.77         |              |
|             |                    | 9       | 2452            | 13.43               | 15.43         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 15.39               | 17.39         | 98.77        |
|             |                     | 40      | 5200            | 15.39               | 17.39         |              |
|             |                     | 44      | 5220            | 15.65               | 17.65         |              |
|             | 802.11n-HT20 MCS0   | 48      | 5240            | 15.49               | 17.49         | 100.00       |
|             |                     | 36      | 5180            | 14.96               | 16.96         |              |
|             |                     | 40      | 5200            | 15.09               | 17.09         |              |
|             | 802.11n-HT40 MCS0   | 44      | 5220            | 14.98               | 16.98         | 100.00       |
|             |                     | 48      | 5240            | 14.96               | 16.96         |              |
|             |                     | 38      | 5190            | 15.20               | 17.20         |              |
|             | 802.11ac-VHT20 MCS0 | 46      | 5230            | 15.23               | 17.23         | 100.00       |
|             |                     | 36      | 5180            | 14.90               | 16.90         |              |
|             |                     | 40      | 5200            | 15.14               | 17.14         |              |
|             | 802.11ac-VHT40 MCS0 | 44      | 5220            | 15.09               | 17.09         | 100.00       |
|             |                     | 48      | 5240            | 15.01               | 17.01         |              |
|             |                     | 38      | 5190            | 15.12               | 17.12         |              |
|             | 802.11ac-VHT80 MCS0 | 46      | 5230            | 15.32               | 17.32         | 100.00       |
|             |                     | 42      | 5210            | 14.27               | 16.27         |              |
|             |                     | 36      | 5180            | 15.11               | 17.11         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 15.18               | 17.18         | 100.00       |
|             |                     | 44      | 5220            | 15.17               | 17.17         |              |
|             |                     | 48      | 5240            | 15.30               | 17.30         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 14.45               | 16.45         | 100.00       |
|             |                     | 46      | 5230            | 15.38               | 17.38         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 14.08               | 16.08         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 15.73               | 17.73         | 98.77        |
|             |                     | 56      | 5280            | 15.60               | 17.60         |              |
|             |                     | 60      | 5300            | 15.83               | 17.83         |              |
|             |                     | 64      | 5320            | 15.93               | 17.93         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 15.27               | 17.27         | 100.00       |
|             |                     | 56      | 5280            | 15.52               | 17.52         |              |
|             |                     | 60      | 5300            | 15.38               | 17.38         |              |
|             |                     | 64      | 5320            | 15.88               | 17.88         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 15.54               | 17.54         | 100.00       |
|             |                     | 62      | 5310            | 14.59               | 16.59         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 15.24               | 17.24         | 100.00       |
|             |                     | 56      | 5280            | 15.25               | 17.25         |              |
|             |                     | 60      | 5300            | 15.37               | 17.37         |              |
|             | 802.11ac-VHT40 MCS0 | 64      | 5320            | 15.64               | 17.64         | 100.00       |
|             |                     | 54      | 5270            | 15.40               | 17.40         |              |
|             | 802.11ac-VHT80 MCS0 | 62      | 5310            | 14.65               | 16.65         | 100.00       |
|             |                     | 58      | 5290            | 12.28               | 14.28         |              |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 15.44               | 17.44         | 100.00       |
|             |                     | 56      | 5280            | 15.23               | 17.23         |              |
|             |                     | 60      | 5300            | 15.45               | 17.45         |              |
|             |                     | 64      | 5320            | 15.59               | 17.59         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 15.73               | 17.73         | 100.00       |
|             |                     | 62      | 5310            | 13.81               | 15.81         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 14.42               | 16.42         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 100     | 5500            | 14.78               | 16.78         | 98.77        |
|             |                      | 116     | 5580            | 14.42               | 16.42         |              |
|             |                      | 124     | 5620            | 14.09               | 16.09         |              |
|             |                      | 132     | 5660            | 14.14               | 16.14         |              |
|             |                      | 140     | 5700            | 14.15               | 16.15         |              |
|             |                      | 144     | 5720            | 14.10               | 16.10         |              |
|             | 802.11n-HT20 MCS0    | 100     | 5500            | 13.31               | 15.31         | 100.00       |
|             |                      | 116     | 5580            | 14.12               | 16.12         |              |
|             |                      | 124     | 5620            | 14.15               | 16.15         |              |
|             |                      | 132     | 5660            | 13.99               | 15.99         |              |
|             |                      | 140     | 5700            | 13.52               | 15.52         |              |
|             |                      | 144     | 5720            | 14.09               | 16.09         |              |
|             | 802.11n-HT40 MCS0    | 102     | 5510            | 13.41               | 15.41         | 100.00       |
|             |                      | 110     | 5550            | 14.30               | 16.30         |              |
|             |                      | 126     | 5630            | 14.23               | 16.23         |              |
|             |                      | 134     | 5670            | 14.41               | 16.41         |              |
|             |                      | 142     | 5710            | 14.56               | 16.56         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT20 MCS0  | 100     | 5500            | 13.32               | 15.32         | 100.00       |
|             |                      | 116     | 5580            | 13.98               | 15.98         |              |
|             |                      | 124     | 5620            | 13.84               | 15.84         |              |
|             |                      | 132     | 5660            | 13.98               | 15.98         |              |
|             |                      | 140     | 5700            | 13.53               | 15.53         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT40 MCS0  | 102     | 5510            | 13.64               | 15.64         | 100.00       |
|             |                      | 110     | 5550            | 14.15               | 16.15         |              |
|             |                      | 126     | 5630            | 14.09               | 16.09         |              |
|             |                      | 134     | 5670            | 14.50               | 16.50         |              |
|             |                      | 142     | 5710            | 14.57               | 16.57         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT80 MCS0  | 106     | 5530            | 13.42               | 15.42         | 100.00       |
|             |                      | 122     | 5610            | 13.16               | 15.16         |              |
|             |                      | 138     | 5690            | 13.25               | 15.25         |              |
|             | 802.11ac-VHT160 MCS0 | 114     | 5570            | 14.02               | 16.02         | 100.00       |
|             | 802.11ax-HE20 MCS0   | 100     | 5500            | 14.36               | 16.36         |              |
|             |                      | 116     | 5580            | 14.36               | 16.36         |              |
|             |                      | 124     | 5620            | 14.15               | 16.15         |              |
|             |                      | 132     | 5660            | 14.12               | 16.12         |              |
|             |                      | 140     | 5700            | 12.11               | 14.11         |              |
|             | 802.11ax-HE40 MCS0   | 144     | 5720            | 13.91               | 15.91         |              |
|             |                      | 102     | 5510            | 14.55               | 16.55         |              |
|             |                      | 110     | 5550            | 14.33               | 16.33         |              |
|             |                      | 126     | 5630            | 14.38               | 16.38         |              |
|             |                      | 134     | 5670            | 14.01               | 16.01         |              |
|             | 802.11ax-HE80 MCS0   | 142     | 5710            | 14.11               | 16.11         | 100.00       |
|             |                      | 106     | 5530            | 13.29               | 15.29         |              |
|             |                      | 122     | 5610            | 13.03               | 15.03         |              |
|             |                      | 138     | 5690            | 12.79               | 14.79         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 14.24               | 16.24         | 98.77        |
|             |                     | 157     | 5785            | 14.05               | 16.05         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 14.35               | 16.35         | 100.00       |
|             |                     | 157     | 5785            | 14.44               | 16.44         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 14.62               | 16.62         | 100.00       |
|             |                     | 159     | 5795            | 14.46               | 16.46         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 14.19               | 16.19         | 100.00       |
|             |                     | 157     | 5785            | 14.30               | 16.30         |              |
|             |                     | 165     | 5825            | 14.20               | 16.20         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 14.47               | 16.47         | 100.00       |
|             |                     | 159     | 5795            | 14.56               | 16.56         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 12.15               | 14.15         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 14.19               | 16.19         | 100.00       |
|             |                     | 157     | 5785            | 13.95               | 15.95         |              |
|             |                     | 165     | 5825            | 14.14               | 16.14         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 14.43               | 16.43         | 100.00       |
|             |                     | 159     | 5795            | 14.09               | 16.09         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 13.21               | 15.21         | 100.00       |

Reduced Power Level 3 for Body/Product Specific

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 16.96               | 18.96         | 98.35        |
|             |                    | 6       | 2437            | 16.86               | 18.86         |              |
|             |                    | 11      | 2462            | 16.71               | 18.71         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 14.11               | 16.11         | 99.04        |
|             |                    | 6       | 2437            | 13.57               | 15.57         |              |
|             |                    | 11      | 2462            | 13.86               | 15.86         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.76               | 16.76         |              |
|             |                    | 11      | 2462            | 15.01               | 17.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 12.76               | 14.76         | 100.00       |
|             |                    | 6       | 2437            | 12.86               | 14.86         |              |
|             |                    | 9       | 2452            | 12.76               | 14.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 15.06               | 17.06         | 100.00       |
|             |                    | 6       | 2437            | 14.91               | 16.91         |              |
|             |                    | 11      | 2462            | 15.16               | 17.16         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 13.16               | 15.16         | 100.00       |
|             |                    | 6       | 2437            | 12.57               | 14.57         |              |
|             |                    | 9       | 2452            | 12.63               | 14.63         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 13.56               | 15.56         | 98.77        |
|             |                     | 40      | 5200            | 13.57               | 15.57         |              |
|             |                     | 44      | 5220            | 13.71               | 15.71         |              |
|             |                     | 48      | 5240            | 13.63               | 15.63         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 12.94               | 14.94         | 100.00       |
|             |                     | 40      | 5200            | 13.12               | 15.12         |              |
|             |                     | 44      | 5220            | 13.01               | 15.01         |              |
|             |                     | 48      | 5240            | 12.92               | 14.92         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 13.30               | 15.30         | 100.00       |
|             |                     | 46      | 5230            | 13.17               | 15.17         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.86               | 14.86         | 100.00       |
|             |                     | 40      | 5200            | 13.00               | 15.00         |              |
|             |                     | 44      | 5220            | 13.05               | 15.05         |              |
|             |                     | 48      | 5240            | 12.95               | 14.95         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.18               | 15.18         | 100.00       |
|             |                     | 46      | 5230            | 13.32               | 15.32         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.37               | 14.37         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 13.07               | 15.07         | 100.00       |
|             |                     | 40      | 5200            | 12.98               | 14.98         |              |
|             |                     | 44      | 5220            | 13.19               | 15.19         |              |
|             |                     | 48      | 5240            | 13.18               | 15.18         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 12.36               | 14.36         | 100.00       |
|             |                     | 46      | 5230            | 13.24               | 15.24         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 12.06               | 14.06         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 52      | 5260            | 13.95               | 15.95         | 98.77        |
|             |                      | 56      | 5280            | 13.50               | 15.50         |              |
|             |                      | 60      | 5300            | 13.93               | 15.93         |              |
|             |                      | 64      | 5320            | 13.99               | 15.99         |              |
|             | 802.11n-HT20 MCS0    | 52      | 5260            | 13.19               | 15.19         | 100.00       |
|             |                      | 56      | 5280            | 13.59               | 15.59         |              |
|             |                      | 60      | 5300            | 13.59               | 15.59         |              |
|             |                      | 64      | 5320            | 13.60               | 15.60         |              |
|             | 802.11n-HT40 MCS0    | 54      | 5270            | 13.61               | 15.61         | 100.00       |
|             |                      | 62      | 5310            | 12.45               | 14.45         |              |
|             | 802.11ac-VHT20 MCS0  | 52      | 5260            | 13.30               | 15.30         | 100.00       |
|             |                      | 56      | 5280            | 13.29               | 15.29         |              |
|             |                      | 60      | 5300            | 13.50               | 15.50         |              |
|             |                      | 64      | 5320            | 13.65               | 15.65         |              |
|             | 802.11ac-VHT40 MCS0  | 54      | 5270            | 13.65               | 15.65         | 100.00       |
|             |                      | 62      | 5310            | 12.48               | 14.48         |              |
|             | 802.11ac-VHT80 MCS0  | 58      | 5290            | 10.22               | 12.22         | 100.00       |
|             | 802.11ac-VHT160 MCS0 | 50      | 5250            |                     | 2.00          |              |
|             | 802.11ax-HE20 MCS0   | 52      | 5260            | 13.32               | 15.32         | 100.00       |
|             |                      | 56      | 5280            | 13.52               | 15.52         |              |
|             |                      | 60      | 5300            | 13.46               | 15.46         |              |
|             |                      | 64      | 5320            | 13.58               | 15.58         |              |
|             | 802.11ax-HE40 MCS0   | 54      | 5270            | 13.66               | 15.66         | 100.00       |
|             |                      | 62      | 5310            | 11.84               | 13.84         |              |
|             | 802.11ax-HE80 MCS0   | 58      | 5290            | 12.28               | 14.28         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 100     | 5500            | 12.87               | 14.87         | 98.77        |
|             |                     | 116     | 5580            | 12.32               | 14.32         |              |
|             |                     | 124     | 5620            | 12.20               | 14.20         |              |
|             |                     | 132     | 5660            | 12.07               | 14.07         |              |
|             |                     | 140     | 5700            | 12.16               | 14.16         |              |
|             |                     | 144     | 5720            | 12.12               | 14.12         |              |
|             | 802.11n-HT20 MCS0   | 100     | 5500            | 11.38               | 13.38         | 100.00       |
|             |                     | 116     | 5580            | 12.10               | 14.10         |              |
|             |                     | 124     | 5620            | 12.16               | 14.16         |              |
|             |                     | 132     | 5660            | 12.14               | 14.14         |              |
|             |                     | 140     | 5700            | 11.39               | 13.39         |              |
|             |                     | 144     | 5720            | 11.97               | 13.97         |              |
|             | 802.11n-HT40 MCS0   | 102     | 5510            | 11.77               | 13.77         | 100.00       |
|             |                     | 110     | 5550            | 12.30               | 14.30         |              |
|             |                     | 126     | 5630            | 12.19               | 14.19         |              |
|             |                     | 134     | 5670            | 12.45               | 14.45         |              |
|             |                     | 142     | 5710            | 12.63               | 14.63         |              |
|             |                     | 100     | 5500            | 11.37               | 13.37         |              |
|             | 802.11ac-VHT20 MCS0 | 116     | 5580            | 12.04               | 14.04         | 100.00       |
|             |                     | 124     | 5620            | 12.17               | 14.17         |              |
|             |                     | 132     | 5660            | 11.92               | 13.92         |              |
|             |                     | 140     | 5700            | 11.45               | 13.45         |              |
|             |                     | 144     | 5720            | 11.98               | 13.98         |              |
|             |                     | 102     | 5510            | 11.62               | 13.62         |              |
|             | 802.11ac-VHT40 MCS0 | 110     | 5550            | 12.14               | 14.14         | 100.00       |
|             |                     | 126     | 5630            | 12.17               | 14.17         |              |
|             |                     | 134     | 5670            | 12.29               | 14.29         |              |
|             |                     | 142     | 5710            | 12.61               | 14.61         |              |
|             |                     | 106     | 5530            | 11.35               | 13.35         |              |
|             |                     | 122     | 5610            | 11.09               | 13.09         |              |
|             | 802.11ac-VHT80 MCS0 | 138     | 5690            | 11.21               | 13.21         | 100.00       |
|             |                     | 114     | 5570            | 12.10               | 14.10         |              |
|             |                     | 100     | 5500            | 12.28               | 14.28         |              |
|             | 802.11ax-HE20 MCS0  | 116     | 5580            | 12.17               | 14.17         | 100.00       |
|             |                     | 124     | 5620            | 12.28               | 14.28         |              |
|             |                     | 132     | 5660            | 12.06               | 14.06         |              |
|             |                     | 140     | 5700            | 10.30               | 12.30         |              |
|             |                     | 144     | 5720            | 11.92               | 13.92         |              |
|             |                     | 102     | 5510            | 12.49               | 14.49         |              |
|             | 802.11ax-HE40 MCS0  | 110     | 5550            | 12.24               | 14.24         | 100.00       |
|             |                     | 126     | 5630            | 12.18               | 14.18         |              |
|             |                     | 134     | 5670            | 12.10               | 14.10         |              |
|             |                     | 142     | 5710            | 11.86               | 13.86         |              |
|             | 802.11ax-HE80 MCS0  | 106     | 5530            | 11.37               | 13.37         | 100.00       |
|             |                     | 122     | 5610            | 10.99               | 12.99         |              |
|             |                     | 138     | 5690            | 10.75               | 12.75         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 12.53               | 14.53         | 98.77        |
|             |                     | 157     | 5785            | 12.20               | 14.20         |              |
|             |                     | 165     | 5825            | 12.04               | 14.04         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 12.39               | 14.39         | 100.00       |
|             |                     | 157     | 5785            | 12.44               | 14.44         |              |
|             |                     | 165     | 5825            | 12.24               | 14.24         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 12.58               | 14.58         | 100.00       |
|             |                     | 159     | 5795            | 12.49               | 14.49         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 12.34               | 14.34         | 100.00       |
|             |                     | 157     | 5785            | 12.25               | 14.25         |              |
|             |                     | 165     | 5825            | 12.12               | 14.12         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 12.51               | 14.51         | 100.00       |
|             |                     | 159     | 5795            | 12.49               | 14.49         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 10.25               | 12.25         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 12.20               | 14.20         | 100.00       |
|             |                     | 157     | 5785            | 11.93               | 13.93         |              |
|             |                     | 165     | 5825            | 12.21               | 14.21         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 12.55               | 14.55         | 100.00       |
|             |                     | 159     | 5795            | 12.12               | 14.12         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 11.12               | 13.12         | 100.00       |

Reduced Power Level 4 for Body/Product Specific

| 2.4GHz WLAN |                    | Ant 1+2 |                 |                     |               |              |
|-------------|--------------------|---------|-----------------|---------------------|---------------|--------------|
| 2.4GHz WLAN | Mode               | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11b 1Mbps      | 1       | 2412            | 13.86               | 15.66         | 98.35        |
|             |                    | 6       | 2437            | 13.66               | 15.66         |              |
|             |                    | 11      | 2462            | 13.61               | 15.61         |              |
|             | 802.11g 6Mbps      | 1       | 2412            | 11.21               | 13.21         | 99.04        |
|             |                    | 6       | 2437            | 10.77               | 12.77         |              |
|             |                    | 11      | 2462            | 10.86               | 12.86         |              |
|             | 802.11n-HT20 MCS0  | 1       | 2412            | 12.26               | 14.26         | 100.00       |
|             |                    | 6       | 2437            | 11.76               | 13.76         |              |
|             |                    | 11      | 2462            | 12.01               | 14.01         |              |
|             | 802.11n-HT40 MCS0  | 3       | 2422            | 9.56                | 11.56         | 100.00       |
|             |                    | 6       | 2437            | 10.16               | 12.16         |              |
|             |                    | 9       | 2452            | 9.76                | 11.76         |              |
|             | 802.11ax-HE20 MCS0 | 1       | 2412            | 12.36               | 14.36         | 100.00       |
|             |                    | 6       | 2437            | 11.81               | 13.81         |              |
|             |                    | 11      | 2462            | 11.86               | 13.86         |              |
|             | 802.11ax-HE40 MCS0 | 3       | 2422            | 9.96                | 11.96         | 100.00       |
|             |                    | 6       | 2437            | 9.97                | 11.97         |              |
|             |                    | 9       | 2452            | 9.43                | 11.43         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 13.56               | 15.56         | 98.77        |
|             |                     | 40      | 5200            | 13.57               | 15.57         |              |
|             |                     | 44      | 5220            | 13.71               | 15.71         |              |
|             |                     | 48      | 5240            | 13.63               | 15.63         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 12.94               | 14.94         | 100.00       |
|             |                     | 40      | 5200            | 13.12               | 15.12         |              |
|             |                     | 44      | 5220            | 13.01               | 15.01         |              |
|             |                     | 48      | 5240            | 12.92               | 14.92         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 13.30               | 15.30         | 100.00       |
|             |                     | 46      | 5230            | 13.17               | 15.17         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 12.86               | 14.86         | 100.00       |
|             |                     | 40      | 5200            | 13.00               | 15.00         |              |
|             |                     | 44      | 5220            | 13.05               | 15.05         |              |
|             |                     | 48      | 5240            | 12.95               | 14.95         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 13.18               | 15.18         | 100.00       |
|             |                     | 46      | 5230            | 13.32               | 15.32         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 12.37               | 14.37         | 100.00       |
|             |                     | 36      | 5180            | 13.07               | 15.07         |              |
|             | 802.11ax-HE20 MCS0  | 40      | 5200            | 12.98               | 14.98         | 100.00       |
|             |                     | 44      | 5220            | 13.19               | 15.19         |              |
|             |                     | 48      | 5240            | 13.18               | 15.18         |              |
|             |                     | 38      | 5190            | 12.36               | 14.36         | 100.00       |
|             | 802.11ax-HE40 MCS0  | 46      | 5230            | 13.24               | 15.24         |              |
|             |                     | 42      | 5210            | 12.06               | 14.06         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 13.95               | 15.95         | 98.77        |
|             |                     | 56      | 5280            | 13.50               | 15.50         |              |
|             |                     | 60      | 5300            | 13.93               | 15.93         |              |
|             |                     | 64      | 5320            | 13.99               | 15.99         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 13.19               | 15.19         | 100.00       |
|             |                     | 56      | 5280            | 13.59               | 15.59         |              |
|             |                     | 60      | 5300            | 13.59               | 15.59         |              |
|             |                     | 64      | 5320            | 13.60               | 15.60         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 13.61               | 15.61         | 100.00       |
|             |                     | 62      | 5310            | 12.45               | 14.45         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 13.30               | 15.30         | 100.00       |
|             |                     | 56      | 5280            | 13.29               | 15.29         |              |
|             |                     | 60      | 5300            | 13.50               | 15.50         |              |
|             |                     | 64      | 5320            | 13.65               | 15.65         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 13.65               | 15.65         | 100.00       |
|             |                     | 62      | 5310            | 12.48               | 14.48         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 10.22               | 12.22         | 100.00       |
|             |                     | 52      | 5260            | 13.32               | 15.32         |              |
|             | 802.11ax-HE20 MCS0  | 56      | 5280            | 13.52               | 15.52         | 100.00       |
|             |                     | 60      | 5300            | 13.46               | 15.46         |              |
|             |                     | 64      | 5320            | 13.58               | 15.58         |              |
|             |                     | 54      | 5270            | 13.66               | 15.66         | 100.00       |
|             | 802.11ax-HE40 MCS0  | 62      | 5310            | 11.84               | 13.84         |              |
|             |                     | 58      | 5290            | 12.28               | 14.28         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 100     | 5500            | 12.87               | 14.87         | 98.77        |
|             |                      | 116     | 5580            | 12.32               | 14.32         |              |
|             |                      | 124     | 5620            | 12.20               | 14.20         |              |
|             |                      | 132     | 5660            | 12.07               | 14.07         |              |
|             |                      | 140     | 5700            | 12.16               | 14.16         |              |
|             |                      | 144     | 5720            | 12.12               | 14.12         |              |
|             | 802.11n-HT20 MCS0    | 100     | 5500            | 11.38               | 13.38         | 100.00       |
|             |                      | 116     | 5580            | 12.10               | 14.10         |              |
|             |                      | 124     | 5620            | 12.16               | 14.16         |              |
|             |                      | 132     | 5660            | 12.14               | 14.14         |              |
|             |                      | 140     | 5700            | 11.39               | 13.39         |              |
|             |                      | 144     | 5720            | 11.97               | 13.97         |              |
|             | 802.11n-HT40 MCS0    | 102     | 5510            | 11.77               | 13.77         | 100.00       |
|             |                      | 110     | 5550            | 12.30               | 14.30         |              |
|             |                      | 126     | 5630            | 12.19               | 14.19         |              |
|             |                      | 134     | 5670            | 12.45               | 14.45         |              |
|             |                      | 142     | 5710            | 12.63               | 14.63         |              |
|             |                      | 100     | 5500            | 11.37               | 13.37         |              |
|             | 802.11ac-VHT20 MCS0  | 116     | 5580            | 12.04               | 14.04         | 100.00       |
|             |                      | 124     | 5620            | 12.17               | 14.17         |              |
|             |                      | 132     | 5660            | 11.92               | 13.92         |              |
|             |                      | 140     | 5700            | 11.45               | 13.45         |              |
|             |                      | 144     | 5720            | 11.98               | 13.98         |              |
|             |                      | 102     | 5510            | 11.62               | 13.62         |              |
|             | 802.11ac-VHT40 MCS0  | 110     | 5550            | 12.14               | 14.14         | 100.00       |
|             |                      | 126     | 5630            | 12.17               | 14.17         |              |
|             |                      | 134     | 5670            | 12.29               | 14.29         |              |
|             |                      | 142     | 5710            | 12.61               | 14.61         |              |
|             |                      | 106     | 5530            | 11.35               | 13.35         |              |
|             |                      | 122     | 5610            | 11.09               | 13.09         |              |
|             | 802.11ac-VHT80 MCS0  | 138     | 5690            | 11.21               | 13.21         | 100.00       |
|             |                      | 114     | 5570            | 12.10               | 14.10         |              |
|             | 802.11ac-VHT160 MCS0 | 100     | 5500            | 12.28               | 14.28         | 100.00       |
|             |                      | 116     | 5580            | 12.17               | 14.17         |              |
|             |                      | 124     | 5620            | 12.28               | 14.28         |              |
|             |                      | 132     | 5660            | 12.06               | 14.06         |              |
|             |                      | 140     | 5700            | 10.30               | 12.30         |              |
|             |                      | 144     | 5720            | 11.92               | 13.92         |              |
|             | 802.11ax-HE20 MCS0   | 102     | 5510            | 12.49               | 14.49         | 100.00       |
|             |                      | 110     | 5550            | 12.24               | 14.24         |              |
|             |                      | 126     | 5630            | 12.18               | 14.18         |              |
|             |                      | 134     | 5670            | 12.10               | 14.10         |              |
|             |                      | 142     | 5710            | 11.86               | 13.86         |              |
|             |                      | 106     | 5530            | 11.37               | 13.37         |              |
|             | 802.11ax-HE40 MCS0   | 122     | 5610            | 10.99               | 12.99         | 100.00       |
|             |                      | 138     | 5690            | 10.75               | 12.75         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 11.57               | 13.57         | 98.77        |
|             |                     | 157     | 5785            | 11.22               | 13.22         |              |
|             |                     | 165     | 5825            | 11.27               | 13.27         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 11.28               | 13.28         | 100.00       |
|             |                     | 157     | 5785            | 11.30               | 13.30         |              |
|             |                     | 165     | 5825            | 11.38               | 13.38         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 11.62               | 13.62         | 100.00       |
|             |                     | 159     | 5795            | 11.61               | 13.61         |              |
|             |                     | 149     | 5745            | 11.26               | 13.26         |              |
|             | 802.11ac-VHT20 MCS0 | 157     | 5785            | 11.35               | 13.35         | 100.00       |
|             |                     | 165     | 5825            | 11.21               | 13.21         |              |
|             |                     | 151     | 5755            | 11.62               | 13.62         |              |
|             | 802.11ac-VHT40 MCS0 | 159     | 5795            | 11.61               | 13.61         | 100.00       |
|             |                     | 155     | 5775            | 9.26                | 11.26         |              |
|             | 802.11ac-VHT80 MCS0 | 149     | 5745            | 11.22               | 13.22         | 100.00       |
|             |                     | 157     | 5785            | 11.26               | 13.26         |              |
|             |                     | 165     | 5825            | 11.23               | 13.23         |              |
|             | 802.11ax-HE20 MCS0  | 151     | 5755            | 11.24               | 13.24         | 100.00       |
|             |                     | 159     | 5795            | 11.17               | 13.17         |              |
|             | 802.11ax-HE40 MCS0  | 155     | 5775            | 10.02               | 12.02         | 100.00       |
|             |                     | 155     | 5775            | 10.02               | 12.02         |              |

Reduced Power for Body/Product Specific (EN-DC)

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.2GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 36      | 5180            | 14.39               | 16.39         | 98.77        |
|             |                     | 40      | 5200            | 14.39               | 16.39         |              |
|             |                     | 44      | 5220            | 14.65               | 16.65         |              |
|             |                     | 48      | 5240            | 14.49               | 16.49         |              |
|             | 802.11n-HT20 MCS0   | 36      | 5180            | 13.96               | 15.96         | 100.00       |
|             |                     | 40      | 5200            | 14.09               | 16.09         |              |
|             |                     | 44      | 5220            | 13.98               | 15.98         |              |
|             |                     | 48      | 5240            | 13.96               | 15.96         |              |
|             | 802.11n-HT40 MCS0   | 38      | 5190            | 14.20               | 16.20         | 100.00       |
|             |                     | 46      | 5230            | 14.23               | 16.23         |              |
|             | 802.11ac-VHT20 MCS0 | 36      | 5180            | 13.90               | 15.90         | 100.00       |
|             |                     | 40      | 5200            | 14.14               | 16.14         |              |
|             |                     | 44      | 5220            | 14.09               | 16.09         |              |
|             |                     | 48      | 5240            | 14.01               | 16.01         |              |
|             | 802.11ac-VHT40 MCS0 | 38      | 5190            | 14.12               | 16.12         | 100.00       |
|             |                     | 46      | 5230            | 14.32               | 16.32         |              |
|             | 802.11ac-VHT80 MCS0 | 42      | 5210            | 13.27               | 15.27         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 36      | 5180            | 14.11               | 16.11         | 100.00       |
|             |                     | 40      | 5200            | 14.18               | 16.18         |              |
|             |                     | 44      | 5220            | 14.17               | 16.17         |              |
|             |                     | 48      | 5240            | 14.30               | 16.30         |              |
|             | 802.11ax-HE40 MCS0  | 38      | 5190            | 13.45               | 15.45         | 100.00       |
|             |                     | 46      | 5230            | 14.38               | 16.38         |              |
|             | 802.11ax-HE80 MCS0  | 42      | 5210            | 13.08               | 15.08         | 100.00       |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.3GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 52      | 5260            | 14.73               | 16.73         | 98.77        |
|             |                     | 56      | 5280            | 14.60               | 16.60         |              |
|             |                     | 60      | 5300            | 14.83               | 16.83         |              |
|             |                     | 64      | 5320            | 14.93               | 16.93         |              |
|             | 802.11n-HT20 MCS0   | 52      | 5260            | 14.27               | 16.27         | 100.00       |
|             |                     | 56      | 5280            | 14.52               | 16.52         |              |
|             |                     | 60      | 5300            | 14.38               | 16.38         |              |
|             |                     | 64      | 5320            | 14.88               | 16.88         |              |
|             | 802.11n-HT40 MCS0   | 54      | 5270            | 14.54               | 16.54         | 100.00       |
|             |                     | 62      | 5310            | 13.59               | 15.59         |              |
|             | 802.11ac-VHT20 MCS0 | 52      | 5260            | 14.24               | 16.24         | 100.00       |
|             |                     | 56      | 5280            | 14.25               | 16.25         |              |
|             |                     | 60      | 5300            | 14.37               | 16.37         |              |
|             |                     | 64      | 5320            | 14.64               | 16.64         |              |
|             | 802.11ac-VHT40 MCS0 | 54      | 5270            | 14.40               | 16.40         | 100.00       |
|             |                     | 62      | 5310            | 13.65               | 15.65         |              |
|             | 802.11ac-VHT80 MCS0 | 58      | 5290            | 11.26               | 13.26         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 52      | 5260            | 14.44               | 16.44         | 100.00       |
|             |                     | 56      | 5280            | 14.23               | 16.23         |              |
|             |                     | 60      | 5300            | 14.45               | 16.45         |              |
|             |                     | 64      | 5320            | 14.59               | 16.59         |              |
|             | 802.11ax-HE40 MCS0  | 54      | 5270            | 14.73               | 16.73         | 100.00       |
|             |                     | 62      | 5310            | 12.81               | 14.81         |              |
|             | 802.11ax-HE80 MCS0  | 58      | 5290            | 13.42               | 15.42         | 100.00       |

| 5GHz WLAN   |                      | Ant 1+2 |                 |                     |               |              |
|-------------|----------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.5GHz WLAN | Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps        | 100     | 5500            | 14.78               | 16.78         | 98.77        |
|             |                      | 116     | 5580            | 14.42               | 16.42         |              |
|             |                      | 124     | 5620            | 14.09               | 16.09         |              |
|             |                      | 132     | 5660            | 14.14               | 16.14         |              |
|             |                      | 140     | 5700            | 14.15               | 16.15         |              |
|             |                      | 144     | 5720            | 14.10               | 16.10         |              |
|             | 802.11n-HT20 MCS0    | 100     | 5500            | 13.31               | 15.31         | 100.00       |
|             |                      | 116     | 5580            | 14.12               | 16.12         |              |
|             |                      | 124     | 5620            | 14.15               | 16.15         |              |
|             |                      | 132     | 5660            | 13.99               | 15.99         |              |
|             |                      | 140     | 5700            | 13.52               | 15.52         |              |
|             |                      | 144     | 5720            | 14.09               | 16.09         |              |
|             | 802.11n-HT40 MCS0    | 102     | 5510            | 13.41               | 15.41         | 100.00       |
|             |                      | 110     | 5550            | 14.30               | 16.30         |              |
|             |                      | 126     | 5630            | 14.23               | 16.23         |              |
|             |                      | 134     | 5670            | 14.41               | 16.41         |              |
|             |                      | 142     | 5710            | 14.56               | 16.56         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT20 MCS0  | 100     | 5500            | 13.32               | 15.32         | 100.00       |
|             |                      | 116     | 5580            | 13.98               | 15.98         |              |
|             |                      | 124     | 5620            | 13.84               | 15.84         |              |
|             |                      | 132     | 5660            | 13.98               | 15.98         |              |
|             |                      | 140     | 5700            | 13.53               | 15.53         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT40 MCS0  | 102     | 5510            | 13.64               | 15.64         | 100.00       |
|             |                      | 110     | 5550            | 14.15               | 16.15         |              |
|             |                      | 126     | 5630            | 14.09               | 16.09         |              |
|             |                      | 134     | 5670            | 14.50               | 16.50         |              |
|             |                      | 142     | 5710            | 14.57               | 16.57         |              |
|             |                      | 144     | 5720            | 13.94               | 15.94         |              |
|             | 802.11ac-VHT80 MCS0  | 106     | 5530            | 13.42               | 15.42         | 100.00       |
|             |                      | 122     | 5610            | 13.16               | 15.16         |              |
|             |                      | 138     | 5690            | 13.25               | 15.25         |              |
|             | 802.11ac-VHT160 MCS0 | 114     | 5570            | 14.02               | 16.02         | 100.00       |
|             | 802.11ax-HE20 MCS0   | 100     | 5500            | 14.36               | 16.36         |              |
|             |                      | 116     | 5580            | 14.36               | 16.36         |              |
|             |                      | 124     | 5620            | 14.15               | 16.15         |              |
|             |                      | 132     | 5660            | 14.12               | 16.12         |              |
|             |                      | 140     | 5700            | 12.11               | 14.11         |              |
|             | 802.11ax-HE40 MCS0   | 144     | 5720            | 13.91               | 15.91         |              |
|             |                      | 102     | 5510            | 14.55               | 16.55         |              |
|             |                      | 110     | 5550            | 14.33               | 16.33         |              |
|             |                      | 126     | 5630            | 14.38               | 16.38         |              |
|             |                      | 134     | 5670            | 14.01               | 16.01         |              |
|             |                      | 142     | 5710            | 14.11               | 16.11         |              |
|             | 802.11ax-HE80 MCS0   | 106     | 5530            | 13.29               | 15.29         | 100.00       |
|             |                      | 122     | 5610            | 13.03               | 15.03         |              |
|             |                      | 138     | 5690            | 12.79               | 14.79         |              |

| 5GHz WLAN   |                     | Ant 1+2 |                 |                     |               |              |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|
| 5.8GHz WLAN | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|             | 802.11a 6Mbps       | 149     | 5745            | 13.24               | 15.24         | 98.77        |
|             |                     | 157     | 5785            | 13.05               | 15.05         |              |
|             |                     | 165     | 5825            | 13.20               | 15.20         |              |
|             | 802.11n-HT20 MCS0   | 149     | 5745            | 13.35               | 15.35         | 100.00       |
|             |                     | 157     | 5785            | 13.44               | 15.44         |              |
|             |                     | 165     | 5825            | 13.20               | 15.20         |              |
|             | 802.11n-HT40 MCS0   | 151     | 5755            | 13.62               | 15.62         | 100.00       |
|             |                     | 159     | 5795            | 13.46               | 15.46         |              |
|             | 802.11ac-VHT20 MCS0 | 149     | 5745            | 13.19               | 15.19         | 100.00       |
|             |                     | 157     | 5785            | 13.30               | 15.30         |              |
|             |                     | 165     | 5825            | 13.20               | 15.20         |              |
|             | 802.11ac-VHT40 MCS0 | 151     | 5755            | 13.47               | 15.47         | 100.00       |
|             |                     | 159     | 5795            | 13.56               | 15.56         |              |
|             | 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.15               | 13.15         | 100.00       |
|             | 802.11ax-HE20 MCS0  | 149     | 5745            | 13.19               | 15.19         | 100.00       |
|             |                     | 157     | 5785            | 12.95               | 14.95         |              |
|             |                     | 165     | 5825            | 13.14               | 15.14         |              |
|             | 802.11ax-HE40 MCS0  | 151     | 5755            | 13.43               | 15.43         | 100.00       |
|             |                     | 159     | 5795            | 13.09               | 15.09         |              |
|             | 802.11ax-HE80 MCS0  | 155     | 5775            | 12.21               | 14.21         | 100.00       |