

|       |     |  |               |      |         |
|-------|-----|--|---------------|------|---------|
| 10736 | AAA | IEEE 802.11ax (80MHz, MCS5, 99pc dc)           | WLAN          | 8.27 | ± 9.6 % |
| 10737 | AAA | IEEE 802.11ax (80MHz, MCS6, 99pc dc)           | WLAN          | 8.36 | ± 9.6 % |
| 10738 | AAA | IEEE 802.11ax (80MHz, MCS7, 99pc dc)           | WLAN          | 8.42 | ± 9.6 % |
| 10739 | AAA | IEEE 802.11ax (80MHz, MCS8, 99pc dc)           | WLAN          | 8.29 | ± 9.6 % |
| 10740 | AAA | IEEE 802.11ax (80MHz, MCS9, 99pc dc)           | WLAN          | 8.48 | ± 9.6 % |
| 10741 | AAA | IEEE 802.11ax (80MHz, MCS10, 99pc dc)          | WLAN          | 8.40 | ± 9.6 % |
| 10742 | AAA | IEEE 802.11ax (80MHz, MCS11, 99pc dc)          | WLAN          | 8.43 | ± 9.6 % |
| 10743 | AAA | IEEE 802.11ax (160MHz, MCS0, 90pc dc)          | WLAN          | 8.94 | ± 9.6 % |
| 10744 | AAA | IEEE 802.11ax (160MHz, MCS1, 90pc dc)          | WLAN          | 9.16 | ± 9.6 % |
| 10745 | AAA | IEEE 802.11ax (160MHz, MCS2, 90pc dc)          | WLAN          | 8.93 | ± 9.6 % |
| 10746 | AAA | IEEE 802.11ax (160MHz, MCS3, 90pc dc)          | WLAN          | 9.11 | ± 9.6 % |
| 10747 | AAA | IEEE 802.11ax (160MHz, MCS4, 90pc dc)          | WLAN          | 9.04 | ± 9.6 % |
| 10748 | AAA | IEEE 802.11ax (160MHz, MCS5, 90pc dc)          | WLAN          | 8.93 | ± 9.6 % |
| 10749 | AAA | IEEE 802.11ax (160MHz, MCS6, 90pc dc)          | WLAN          | 8.90 | ± 9.6 % |
| 10750 | AAA | IEEE 802.11ax (160MHz, MCS7, 90pc dc)          | WLAN          | 8.79 | ± 9.6 % |
| 10751 | AAA | IEEE 802.11ax (160MHz, MCS8, 90pc dc)          | WLAN          | 8.82 | ± 9.6 % |
| 10752 | AAA | IEEE 802.11ax (160MHz, MCS9, 90pc dc)          | WLAN          | 8.81 | ± 9.6 % |
| 10753 | AAA | IEEE 802.11ax (160MHz, MCS10, 90pc dc)         | WLAN          | 9.00 | ± 9.6 % |
| 10754 | AAA | IEEE 802.11ax (160MHz, MCS11, 90pc dc)         | WLAN          | 8.94 | ± 9.6 % |
| 10755 | AAA | IEEE 802.11ax (160MHz, MCS0, 99pc dc)          | WLAN          | 8.64 | ± 9.6 % |
| 10756 | AAA | IEEE 802.11ax (160MHz, MCS1, 99pc dc)          | WLAN          | 8.77 | ± 9.6 % |
| 10757 | AAA | IEEE 802.11ax (160MHz, MCS2, 99pc dc)          | WLAN          | 8.77 | ± 9.6 % |
| 10758 | AAA | IEEE 802.11ax (160MHz, MCS3, 99pc dc)          | WLAN          | 8.69 | ± 9.6 % |
| 10759 | AAA | IEEE 802.11ax (160MHz, MCS4, 99pc dc)          | WLAN          | 8.58 | ± 9.6 % |
| 10760 | AAA | IEEE 802.11ax (160MHz, MCS5, 99pc dc)          | WLAN          | 8.49 | ± 9.6 % |
| 10761 | AAA | IEEE 802.11ax (160MHz, MCS6, 99pc dc)          | WLAN          | 8.58 | ± 9.6 % |
| 10762 | AAA | IEEE 802.11ax (160MHz, MCS7, 99pc dc)          | WLAN          | 8.49 | ± 9.6 % |
| 10763 | AAA | IEEE 802.11ax (160MHz, MCS8, 99pc dc)          | WLAN          | 8.53 | ± 9.6 % |
| 10764 | AAA | IEEE 802.11ax (160MHz, MCS9, 99pc dc)          | WLAN          | 8.54 | ± 9.6 % |
| 10765 | AAA | IEEE 802.11ax (160MHz, MCS10, 99pc dc)         | WLAN          | 8.54 | ± 9.6 % |
| 10766 | AAA | IEEE 802.11ax (160MHz, MCS11, 99pc dc)         | WLAN          | 8.51 | ± 9.6 % |
| 10767 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 7.99 | ± 9.6 % |
| 10768 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10769 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10770 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10771 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10772 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.23 | ± 9.6 % |
| 10773 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.03 | ± 9.6 % |
| 10774 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.02 | ± 9.6 % |
| 10775 | AAB | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10776 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10777 | AAB | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10778 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10779 | AAB | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10780 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10781 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.38 | ± 9.6 % |
| 10782 | AAC | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10783 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.31 | ± 9.6 % |
| 10784 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ± 9.6 % |
| 10785 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10786 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10787 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ± 9.6 % |
| 10788 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10789 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10790 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10791 | AAC | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.83 | ± 9.6 % |
| 10792 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.92 | ± 9.6 % |
| 10793 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.95 | ± 9.6 % |
| 10794 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10795 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.84 | ± 9.6 % |
| 10796 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.82 | ± 9.6 % |
| 10797 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 8.01 | ± 9.6 % |
| 10798 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10799 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93 | ± 9.6 % |

|       |     |  |               |      |         |
|-------|-----|--|---------------|------|---------|
| 10801 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.89 | ± 9.6 % |
| 10802 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)          | 5G NR FR1 TDD | 7.87 | ± 9.6 % |
| 10803 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)         | 5G NR FR1 TDD | 7.93 | ± 9.6 % |
| 10805 | AAC | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10806 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10809 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10810 | AAC | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10812 | AAC | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10817 | AAC | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10818 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10819 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.33 | ± 9.6 % |
| 10820 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.30 | ± 9.6 % |
| 10821 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10822 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10823 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10824 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.39 | ± 9.6 % |
| 10825 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10827 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.42 | ± 9.6 % |
| 10828 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 8.43 | ± 9.6 % |
| 10829 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10830 | AAC | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.63 | ± 9.6 % |
| 10831 | AAC | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.73 | ± 9.6 % |
| 10832 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.74 | ± 9.6 % |
| 10833 | AAC | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10834 | AAC | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.75 | ± 9.6 % |
| 10835 | AAC | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10836 | AAC | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.66 | ± 9.6 % |
| 10837 | AAC | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.68 | ± 9.6 % |
| 10839 | AAC | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70 | ± 9.6 % |
| 10840 | AAC | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.67 | ± 9.6 % |
| 10841 | AAC | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         | 5G NR FR1 TDD | 7.71 | ± 9.6 % |
| 10843 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.49 | ± 9.6 % |
| 10844 | AAC | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10846 | AAC | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10854 | AAC | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10855 | AAC | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10856 | AAC | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10857 | AAC | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.35 | ± 9.6 % |
| 10858 | AAC | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36 | ± 9.6 % |
| 10859 | AAC | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34 | ± 9.6 % |
| 10860 | AAC | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10861 | AAC | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40 | ± 9.6 % |
| 10863 | AAC | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10864 | AAC | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37 | ± 9.6 % |
| 10865 | AAC | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41 | ± 9.6 % |
| 10866 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10868 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89 | ± 9.6 % |
| 10869 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10870 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86 | ± 9.6 % |
| 10871 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10872 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ± 9.6 % |
| 10873 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.61 | ± 9.6 % |
| 10874 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10875 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10876 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.39 | ± 9.6 % |
| 10877 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95 | ± 9.6 % |
| 10878 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10879 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12 | ± 9.6 % |
| 10880 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38 | ± 9.6 % |
| 10881 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75 | ± 9.6 % |
| 10882 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96 | ± 9.6 % |
| 10883 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57 | ± 9.6 % |
| 10884 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53 | ± 9.6 % |
| 10885 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61 | ± 9.6 % |

|       |     |   |               |      |         |
|-------|-----|---|---------------|------|---------|
| 10886 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ± 9.6 % |
| 10887 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78 | ± 9.6 % |
| 10888 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.35 | ± 9.6 % |
| 10889 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 8.02 | ± 9.6 % |
| 10890 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.40 | ± 9.6 % |
| 10891 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.13 | ± 9.6 % |
| 10892 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41 | ± 9.6 % |
| 10897 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.66 | ± 9.6 % |
| 10898 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10899 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.67 | ± 9.6 % |
| 10900 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10901 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10902 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10903 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10904 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10905 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10906 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68 | ± 9.6 % |
| 10907 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.78 | ± 9.6 % |
| 10908 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10909 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.96 | ± 9.6 % |
| 10910 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10911 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93 | ± 9.6 % |
| 10912 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10913 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10914 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.85 | ± 9.6 % |
| 10915 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83 | ± 9.6 % |
| 10916 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10917 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10918 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10919 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.86 | ± 9.6 % |
| 10920 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.87 | ± 9.6 % |
| 10921 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10922 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82 | ± 9.6 % |
| 10923 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10924 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10925 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95 | ± 9.6 % |
| 10926 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84 | ± 9.6 % |
| 10927 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94 | ± 9.6 % |
| 10928 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10929 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10930 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52 | ± 9.6 % |
| 10931 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10932 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10933 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10934 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10935 | AAA | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51 | ± 9.6 % |
| 10936 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10937 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77 | ± 9.6 % |
| 10938 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90 | ± 9.6 % |
| 10939 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82 | ± 9.6 % |
| 10940 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89 | ± 9.6 % |
| 10941 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10942 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10943 | AAA | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95 | ± 9.6 % |
| 10944 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81 | ± 9.6 % |
| 10945 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85 | ± 9.6 % |
| 10946 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83 | ± 9.6 % |
| 10947 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10948 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10949 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87 | ± 9.6 % |
| 10950 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94 | ± 9.6 % |
| 10951 | AAA | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92 | ± 9.6 % |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25 | ± 9.6 % |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15 | ± 9.6 % |

|       |     |   |               |      |         |
|-------|-----|---|---------------|------|---------|
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23 | ± 9.6 % |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42 | ± 9.6 % |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14 | ± 9.6 % |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31 | ± 9.6 % |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61 | ± 9.6 % |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33 | ± 9.6 % |
| 10960 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32 | ± 9.6 % |
| 10961 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36 | ± 9.6 % |
| 10962 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40 | ± 9.6 % |
| 10963 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10964 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29 | ± 9.6 % |
| 10965 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37 | ± 9.6 % |
| 10966 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55 | ± 9.6 % |
| 10967 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42 | ± 9.6 % |
| 10968 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49 | ± 9.6 % |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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

The detailed power table are shown as follows.



### Full Power Mode

| GSM850          | Burst Average Power (dBm) |       |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       |  | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|-------|---------------------|---------------------------|-------|-------|--|---------------------|
|                 | 128                       | 189   | 251   |       |                     | 128                       | 189   | 251   |  |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |       | 824.2               | 836.4                     | 848.8 |       |  |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |       | 824.2               | 836.4                     | 848.8 |       |  |                     |
| GSM 1 Tx slot   | 32.78                     | 32.63 | 32.60 | 33.50 | 23.78               | 23.63                     | 23.60 | 24.50 |  |                     |
| GPRS 1 Tx slot  | 32.77                     | 32.62 | 32.58 | 33.50 | 23.77               | 23.62                     | 23.58 | 24.50 |  |                     |
| GPRS 2 Tx slots | 30.95                     | 31.05 | 30.91 | 31.50 | 24.95               | 25.05                     | 24.91 | 25.50 |  |                     |
| GPRS 3 Tx slots | 30.39                     | 30.27 | 30.14 | 31.00 | 26.13               | 26.01                     | 25.88 | 26.74 |  |                     |
| GPRS 4 Tx slots | 28.53                     | 28.45 | 28.55 | 29.50 | 25.53               | 25.45                     | 25.55 | 26.50 |  |                     |
| EDGE 1 Tx slot  | 26.91                     | 27.05 | 26.96 | 27.50 | 17.91               | 18.05                     | 17.96 | 18.50 |  |                     |
| EDGE 2 Tx slots | 25.73                     | 25.83 | 25.88 | 26.50 | 19.73               | 19.83                     | 19.88 | 20.50 |  |                     |
| EDGE 3 Tx slots | 24.21                     | 24.29 | 24.27 | 24.50 | 19.95               | 20.03                     | 20.01 | 20.24 |  |                     |
| EDGE 4 Tx slots | 22.56                     | 22.51 | 22.52 | 23.50 | 19.56               | 19.51                     | 19.52 | 20.50 |  |                     |

| GSM1900         | Burst Average Power (dBm) |       |        |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |        |       |  | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|-------|---------------------|---------------------------|--------|-------|--|---------------------|
|                 | 512                       | 661   | 810    |       |                     | 512                       | 661    | 810   |  |                     |
| TX Channel      | 1852.2                    | 1850  | 1858.8 |       | 1852.2              | 1850                      | 1858.8 |       |  |                     |
| Frequency (MHz) | 1852.2                    | 1850  | 1858.8 |       | 1852.2              | 1850                      | 1858.8 |       |  |                     |
| GSM 1 Tx slot   | 29.86                     | 29.81 | 29.94  | 30.50 | 20.86               | 20.81                     | 20.94  | 21.50 |  |                     |
| GPRS 1 Tx slot  | 29.85                     | 29.79 | 29.93  | 30.50 | 20.85               | 20.79                     | 20.93  | 21.50 |  |                     |
| GPRS 2 Tx slots | 28.99                     | 29.01 | 29.10  | 29.50 | 22.99               | 23.01                     | 23.10  | 23.50 |  |                     |
| GPRS 3 Tx slots | 27.58                     | 27.61 | 27.71  | 28.00 | 23.32               | 23.35                     | 23.45  | 23.74 |  |                     |
| GPRS 4 Tx slots | 25.96                     | 26.06 | 26.20  | 26.50 | 22.96               | 23.06                     | 23.20  | 23.50 |  |                     |
| EDGE 1 Tx slot  | 26.75                     | 26.82 | 26.93  | 27.50 | 17.75               | 17.82                     | 17.93  | 18.50 |  |                     |
| EDGE 2 Tx slots | 25.31                     | 25.34 | 25.42  | 25.50 | 19.31               | 19.34                     | 19.42  | 19.50 |  |                     |
| EDGE 3 Tx slots | 24.14                     | 24.23 | 24.31  | 24.50 | 19.88               | 19.97                     | 20.05  | 20.24 |  |                     |
| EDGE 4 Tx slots | 22.16                     | 22.14 | 22.22  | 22.50 | 19.16               | 19.14                     | 19.22  | 19.50 |  |                     |

| Band        | TX Channel         | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|             |                    | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
|             | Rx Channel         | 9662     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
|             | Frequency (MHz)    | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 | AMR 12.2Kbps       | 22.63    | 22.74 | 22.70  | 24.00               | 22.35    | 22.40  | 22.31  | 24.00               | 22.56   | 22.50 | 22.54 | 24.00               |
| 3GPP Rel 99 | RM 12.2Kbps        | 22.64    | 22.76 | 22.71  | 24.00               | 22.36    | 22.42  | 22.33  | 24.00               | 22.58   | 22.51 | 22.56 | 24.00               |
| 3GPP Rel 6  | HSDPA Subtest-1    | 22.28    | 22.36 | 22.19  | 23.00               | 22.23    | 22.28  | 22.24  | 23.00               | 22.38   | 22.30 | 22.34 | 23.00               |
| 3GPP Rel 6  | HSDPA Subtest-2    | 22.32    | 22.07 | 22.19  | 23.00               | 22.18    | 22.35  | 22.26  | 23.00               | 22.41   | 22.31 | 22.40 | 23.00               |
| 3GPP Rel 6  | HSDPA Subtest-3    | 21.81    | 21.46 | 21.68  | 22.50               | 21.77    | 21.78  | 21.73  | 22.50               | 21.95   | 21.86 | 21.86 | 22.50               |
| 3GPP Rel 6  | HSDPA Subtest-4    | 21.79    | 21.45 | 21.76  | 22.50               | 21.73    | 21.76  | 21.76  | 22.50               | 21.93   | 21.84 | 21.86 | 22.50               |
| 3GPP Rel 8  | DC-HSDPA Subtest-1 | 22.16    | 22.31 | 22.14  | 23.00               | 22.20    | 22.22  | 22.18  | 23.00               | 22.32   | 22.25 | 22.29 | 23.00               |
| 3GPP Rel 8  | DC-HSDPA Subtest-2 | 22.24    | 21.99 | 22.10  | 23.00               | 22.12    | 22.30  | 22.21  | 23.00               | 22.38   | 22.28 | 22.28 | 23.00               |
| 3GPP Rel 8  | DC-HSDPA Subtest-3 | 21.67    | 21.38 | 21.56  | 22.50               | 21.61    | 21.72  | 21.64  | 22.50               | 21.90   | 21.82 | 21.73 | 22.50               |
| 3GPP Rel 8  | DC-HSDPA Subtest-4 | 21.70    | 21.39 | 21.63  | 22.50               | 21.58    | 21.68  | 21.72  | 22.50               | 21.87   | 21.75 | 21.81 | 22.50               |
| 3GPP Rel 6  | HSUPA Subtest-1    | 22.29    | 22.28 | 22.20  | 23.00               | 21.96    | 22.07  | 22.02  | 23.00               | 22.38   | 22.29 | 22.28 | 23.00               |
| 3GPP Rel 6  | HSUPA Subtest-2    | 20.26    | 20.36 | 20.21  | 21.00               | 20.04    | 20.10  | 20.03  | 21.00               | 20.36   | 20.32 | 20.25 | 21.00               |
| 3GPP Rel 6  | HSUPA Subtest-3    | 21.30    | 21.37 | 21.19  | 22.00               | 20.98    | 21.03  | 21.02  | 22.00               | 21.38   | 21.27 | 21.32 | 22.00               |
| 3GPP Rel 6  | HSUPA Subtest-4    | 20.24    | 20.33 | 20.18  | 21.00               | 20.01    | 20.03  | 20.04  | 21.00               | 20.36   | 20.27 | 20.29 | 21.00               |
| 3GPP Rel 6  | HSUPA Subtest-5    | 22.20    | 22.40 | 22.20  | 23.00               | 22.00    | 22.10  | 22.00  | 23.00               | 22.40   | 22.30 | 22.30 | 23.00               |



| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |                     |                        |                      |                     |          |  |
|-----------------------------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 20                                | QPSK       | 1       | 0         | 22.81               | 22.82                  | 22.83                | 24                  | 0        |  |
| 20                                | QPSK       | 1       | 49        | 22.86               | 22.86                  | 22.89                |                     |          |  |
| 20                                | QPSK       | 1       | 99        | 22.96               | 22.91                  | 22.90                |                     |          |  |
| 20                                | QPSK       | 50      | 0         | 21.88               | 21.96                  | 21.92                |                     |          |  |
| 20                                | QPSK       | 50      | 24        | 21.92               | 21.90                  | 21.92                | 23                  | 1        |  |
| 20                                | QPSK       | 50      | 50        | 21.95               | 21.84                  | 21.87                |                     |          |  |
| 20                                | QPSK       | 100     | 0         | 21.96               | 21.98                  | 21.90                |                     |          |  |
| 20                                | 16QAM      | 1       | 0         | 22.34               | 22.33                  | 22.33                |                     |          |  |
| 20                                | 16QAM      | 1       | 49        | 22.27               | 22.30                  | 22.29                | 23                  | 1        |  |
| 20                                | 16QAM      | 1       | 99        | 22.33               | 22.31                  | 22.31                |                     |          |  |
| 20                                | 16QAM      | 50      | 0         | 21.04               | 21.01                  | 21.04                |                     |          |  |
| 20                                | 16QAM      | 50      | 24        | 21.08               | 21.07                  | 21.08                | 22                  | 2        |  |
| 20                                | 16QAM      | 50      | 50        | 21.11               | 21.01                  | 20.99                |                     |          |  |
| 20                                | 16QAM      | 100     | 0         | 21.10               | 20.95                  | 21.02                |                     |          |  |
| 20                                | 64QAM      | 1       | 0         | 21.27               | 21.19                  | 21.23                |                     |          |  |
| 20                                | 64QAM      | 1       | 49        | 21.17               | 21.22                  | 21.16                | 22                  | 2        |  |
| 20                                | 64QAM      | 1       | 99        | 21.23               | 21.25                  | 21.13                |                     |          |  |
| 20                                | 64QAM      | 50      | 0         | 20.43               | 19.98                  | 20.04                |                     |          |  |
| 20                                | 64QAM      | 50      | 24        | 20.05               | 20.03                  | 20.05                | 21                  | 3        |  |
| 20                                | 64QAM      | 50      | 50        | 20.08               | 20.00                  | 20.01                |                     |          |  |
| 20                                | 64QAM      | 100     | 0         | 20.10               | 20.00                  | 20.03                |                     |          |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 15                                | QPSK       | 1       | 0         | 22.89               | 22.84                  | 22.89                | 24                  | 0        |  |
| 15                                | QPSK       | 1       | 37        | 22.86               | 22.81                  | 22.94                |                     |          |  |
| 15                                | QPSK       | 1       | 74        | 22.80               | 22.79                  | 22.89                |                     |          |  |
| 15                                | QPSK       | 35      | 0         | 21.82               | 21.85                  | 21.90                | 23                  | 1        |  |
| 15                                | QPSK       | 35      | 20        | 21.95               | 21.90                  | 21.90                |                     |          |  |
| 15                                | QPSK       | 35      | 39        | 21.86               | 21.87                  | 21.94                |                     |          |  |
| 15                                | QPSK       | 75      | 0         | 21.91               | 21.87                  | 21.87                | 23                  | 1        |  |
| 15                                | 16QAM      | 1       | 0         | 22.29               | 22.26                  | 22.29                |                     |          |  |
| 15                                | 16QAM      | 1       | 37        | 22.32               | 22.28                  | 22.34                | 23                  | 1        |  |
| 15                                | 16QAM      | 1       | 74        | 22.23               | 22.17                  | 22.25                |                     |          |  |
| 15                                | 16QAM      | 35      | 0         | 21.05               | 21.04                  | 21.04                | 22                  | 2        |  |
| 15                                | 16QAM      | 35      | 20        | 21.09               | 21.08                  | 21.06                |                     |          |  |
| 15                                | 16QAM      | 35      | 39        | 21.04               | 21.05                  | 21.10                |                     |          |  |
| 15                                | 16QAM      | 75      | 0         | 21.04               | 21.00                  | 20.98                | 22                  | 2        |  |
| 15                                | 64QAM      | 1       | 0         | 21.15               | 21.16                  | 21.19                |                     |          |  |
| 15                                | 64QAM      | 1       | 37        | 21.14               | 21.18                  | 21.24                | 22                  | 2        |  |
| 15                                | 64QAM      | 1       | 74        | 21.11               | 21.11                  | 21.13                |                     |          |  |
| 15                                | 64QAM      | 35      | 0         | 20.05               | 20.02                  | 20.04                | 21                  | 3        |  |
| 15                                | 64QAM      | 35      | 20        | 20.10               | 20.07                  | 20.05                |                     |          |  |
| 15                                | 64QAM      | 35      | 39        | 20.05               | 20.03                  | 20.08                |                     |          |  |
| 15                                | 64QAM      | 75      | 0         | 20.04               | 20.04                  | 20.00                |                     |          |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 10                                | QPSK       | 1       | 0         | 22.97               | 22.92                  | 22.86                | 24                  | 0        |  |
| 10                                | QPSK       | 1       | 25        | 22.87               | 22.83                  | 22.92                |                     |          |  |
| 10                                | QPSK       | 1       | 49        | 22.86               | 22.87                  | 22.87                |                     |          |  |
| 10                                | QPSK       | 25      | 0         | 21.87               | 21.87                  | 21.88                | 23                  | 1        |  |
| 10                                | QPSK       | 25      | 12        | 21.89               | 21.87                  | 21.95                |                     |          |  |
| 10                                | QPSK       | 25      | 25        | 21.87               | 21.82                  | 21.93                |                     |          |  |
| 10                                | QPSK       | 50      | 0         | 21.89               | 21.85                  | 21.83                | 23                  | 1        |  |
| 10                                | 16QAM      | 1       | 0         | 22.35               | 22.36                  | 22.25                |                     |          |  |
| 10                                | 16QAM      | 1       | 25        | 22.30               | 22.29                  | 22.32                | 23                  | 1        |  |
| 10                                | 16QAM      | 1       | 49        | 22.28               | 22.27                  | 22.23                |                     |          |  |
| 10                                | 16QAM      | 25      | 0         | 21.04               | 21.01                  | 21.00                | 22                  | 2        |  |
| 10                                | 16QAM      | 25      | 12        | 21.02               | 21.02                  | 21.09                |                     |          |  |
| 10                                | 16QAM      | 25      | 25        | 20.98               | 21.02                  | 21.05                |                     |          |  |
| 10                                | 16QAM      | 50      | 0         | 21.02               | 21.01                  | 20.98                | 22                  | 2        |  |
| 10                                | 64QAM      | 1       | 0         | 21.22               | 21.22                  | 21.11                | 22                  | 2        |  |
| 10                                | 64QAM      | 1       | 13        | 21.23               | 21.12                  | 21.17                |                     |          |  |
| 10                                | 64QAM      | 1       | 49        | 21.16               | 21.16                  | 21.12                |                     |          |  |
| 10                                | 64QAM      | 25      | 0         | 20.05               | 20.00                  | 20.00                | 21                  | 3        |  |
| 10                                | 64QAM      | 25      | 12        | 20.03               | 20.02                  | 20.08                |                     |          |  |
| 10                                | 64QAM      | 25      | 25        | 20.00               | 20.00                  | 20.05                |                     |          |  |
| 10                                | 64QAM      | 50      | 0         | 20.02               | 20.00                  | 19.95                |                     |          |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 5                                 | QPSK       | 1       | 0         | 22.86               | 22.80                  | 22.87                | 24                  | 0        |  |
| 5                                 | QPSK       | 1       | 12        | 22.84               | 22.81                  | 22.86                |                     |          |  |
| 5                                 | QPSK       | 1       | 24        | 22.82               | 22.80                  | 22.84                |                     |          |  |
| 5                                 | QPSK       | 12      | 0         | 21.82               | 21.88                  | 21.89                | 23                  | 1        |  |
| 5                                 | QPSK       | 12      | 7         | 21.91               | 21.89                  | 21.92                |                     |          |  |
| 5                                 | QPSK       | 12      | 13        | 21.89               | 21.84                  | 21.90                |                     |          |  |
| 5                                 | QPSK       | 25      | 0         | 21.87               | 21.82                  | 21.91                | 23                  | 1        |  |
| 5                                 | 16QAM      | 1       | 0         | 22.19               | 22.18                  | 22.23                |                     |          |  |
| 5                                 | 16QAM      | 1       | 12        | 22.24               | 22.19                  | 22.21                | 23                  | 1        |  |
| 5                                 | 16QAM      | 1       | 24        | 22.21               | 22.16                  | 22.15                |                     |          |  |
| 5                                 | 16QAM      | 12      | 0         | 21.08               | 21.06                  | 21.05                | 22                  | 2        |  |
| 5                                 | 16QAM      | 12      | 7         | 21.07               | 21.02                  | 21.03                |                     |          |  |
| 5                                 | 16QAM      | 12      | 13        | 21.06               | 21.05                  | 21.08                |                     |          |  |
| 5                                 | 16QAM      | 25      | 0         | 21.00               | 20.97                  | 21.01                | 22                  | 2        |  |
| 5                                 | 64QAM      | 1       | 0         | 21.15               | 21.11                  | 21.12                |                     |          |  |
| 5                                 | 64QAM      | 1       | 12        | 21.20               | 21.12                  | 21.14                | 22                  | 2        |  |
| 5                                 | 64QAM      | 1       | 24        | 21.09               | 21.06                  | 21.07                |                     |          |  |
| 5                                 | 64QAM      | 12      | 0         | 20.05               | 20.02                  | 20.03                | 21                  | 3        |  |
| 5                                 | 64QAM      | 12      | 7         | 20.05               | 20.03                  | 20.08                |                     |          |  |
| 5                                 | 64QAM      | 12      | 13        | 20.00               | 20.03                  | 20.04                |                     |          |  |
| 5                                 | 64QAM      | 25      | 0         | 19.97               | 19.99                  | 20.01                |                     |          |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 3                                 | QPSK       | 1       | 0         | 22.83               | 22.78                  | 22.85                | 24                  | 0        |  |
| 3                                 | QPSK       | 1       | 8         | 22.87               | 22.81                  | 22.82                |                     |          |  |
| 3                                 | QPSK       | 1       | 14        | 22.81               | 22.76                  | 22.85                |                     |          |  |
| 3                                 | QPSK       | 8       | 0         | 21.80               | 21.85                  | 21.86                | 23                  | 1        |  |
| 3                                 | QPSK       | 8       | 4         | 21.84               | 21.89                  | 21.91                |                     |          |  |
| 3                                 | QPSK       | 8       | 7         | 21.80               | 21.85                  | 21.89                |                     |          |  |
| 3                                 | QPSK       | 15      | 0         | 21.86               | 21.86                  | 21.88                | 23                  | 1        |  |
| 3                                 | 16QAM      | 1       | 0         | 22.23               | 22.23                  | 22.19                |                     |          |  |
| 3                                 | 16QAM      | 1       | 8         | 22.31               | 22.25                  | 22.27                | 23                  | 1        |  |
| 3                                 | 16QAM      | 1       | 14        | 22.21               | 22.23                  | 22.19                |                     |          |  |
| 3                                 | 16QAM      | 8       | 0         | 21.08               | 21.05                  | 21.07                | 22                  | 2        |  |
| 3                                 | 16QAM      | 8       | 4         | 21.14               | 21.13                  | 21.13                |                     |          |  |
| 3                                 | 16QAM      | 8       | 7         | 21.10               | 21.09                  | 21.08                |                     |          |  |
| 3                                 | 16QAM      | 15      | 0         | 21.03               | 21.00                  | 21.02                | 22                  | 2        |  |
| 3                                 | 64QAM      | 1       | 0         | 21.11               | 21.08                  | 21.13                |                     |          |  |
| 3                                 | 64QAM      | 1       | 8         | 21.15               | 21.12                  | 21.14                | 22                  | 2        |  |
| 3                                 | 64QAM      | 1       | 14        | 21.10               | 21.09                  | 21.08                |                     |          |  |
| 3                                 | 64QAM      | 8       | 0         | 20.04               | 20.00                  | 20.03                | 21                  | 3        |  |
| 3                                 | 64QAM      | 8       | 4         | 20.08               | 20.05                  | 20.07                |                     |          |  |
| 3                                 | 64QAM      | 8       | 7         | 20.04               | 20.03                  | 20.03                |                     |          |  |
| 3                                 | 64QAM      | 15      | 0         | 20.00               | 19.94                  | 19.99                |                     |          |  |
| Channel                           |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)                   |            |         |           |                     |                        |                      |                     |          |  |
| 1.4                               | QPSK       | 1       | 0         | 22.87               | 22.72                  | 22.72                | 24                  | 0        |  |
| 1.4                               | QPSK       | 1       | 3         | 22.73               | 22.81                  | 22.84                |                     |          |  |
| 1.4                               | QPSK       | 1       | 5         | 22.66               | 22.71                  | 22.73                |                     |          |  |
| 1.4                               | QPSK       | 3       | 0         | 22.70               | 22.75                  | 22.82                | 24                  | 0        |  |
| 1.4                               | QPSK       | 3       | 1         | 22.71               | 22.78                  | 22.83                |                     |          |  |
| 1.4                               | QPSK       | 3       | 3         | 22.70               | 22.74                  | 22.82                |                     |          |  |
| 1.4                               | QPSK       | 6       | 0         | 21.68               | 21.76                  | 21.81                | 23                  | 1        |  |
| 1.4                               | 16QAM      | 1       | 0         | 22.06               | 22.11                  | 22.08                |                     |          |  |
| 1.4                               | 16QAM      | 1       | 3         | 22.00               | 22.06                  | 22.18                | 23                  | 1        |  |
| 1.4                               | 16QAM      | 1       | 5         | 22.03               | 22.13                  | 22.07                |                     |          |  |
| 1.4                               | 16QAM      | 3       | 0         | 21.82               | 21.89                  | 21.90                | 23                  | 1        |  |
| 1.4                               | 16QAM      | 3       | 1         | 21.88               | 21.95                  | 21.95                |                     |          |  |
| 1.4                               | 16QAM      | 3       | 3         | 21.83               | 21.88                  | 21.92                |                     |          |  |
| 1.4                               | 16QAM      | 6       | 0         | 20.88               | 20.92                  | 21.00                | 22                  | 2        |  |
| 1.4                               | 64QAM      | 1       | 0         | 20.93               | 21.07                  | 20.97                |                     |          |  |
| 1.4                               | 64QAM      | 1       | 3         | 20.96               | 21.08                  | 21.02                | 22                  | 2        |  |
| 1.4                               | 64QAM      | 1       | 5         | 20.91               | 21.00                  | 20.96                |                     |          |  |
| 1.4                               | 64QAM      | 3       | 0         | 20.85               | 20.91                  | 20.89                | 22                  | 2        |  |
| 1.4                               | 64QAM      | 3       | 1         | 20.89               | 20.94                  | 20.97                |                     |          |  |
| 1.4                               | 64QAM      | 3       | 3         | 20.83               | 20.87                  | 20.92                |                     |          |  |
| 1.4                               | 64QAM      | 6       | 0         | 19.81               | 19.86                  | 19.90                | 21                  | 3        |  |

| Band 4 (AWS Band)<br>Part 27L (only on channel required) |            |         |           |                     |                        |                      |                     |          |  |
|--|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|--|
| BW (MHz)   | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel  |            |         |           |                     |                        |                      |                     |          |  |
| Frequency (MHz)  |            |         |           |                     |                        |                      |                     |          |  |
| 20   | QPSK       | 1       | 0         | 22.79               | 22.72                  | 22.80                | 24                  | 0        |  |
| 20   | QPSK       | 1       | 49        | 22.80               | 22.77                  | 22.82                |                     |          |  |
| 20   | QPSK       | 1       | 99        | 22.72               | 22.65                  | 22.66                |                     |          |  |
| 20   | QPSK       | 50      | 0         | 21.83               | 21.86                  | 21.78                | 23                  | 1        |  |
| 20   | QPSK       | 50      | 24        | 21.81               | 21.81                  | 21.71                |                     |          |  |
| 20   | QPSK       | 50      | 50</      |                     |                        |                      |                     |          |  |



| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| Part 27               |            |         |           |                       |                          |                        |                     |          |  |
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel               |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 22.70                 | 22.88                    | 22.81                  |                     |          |  |
| 20                    | QPSK       | 1       | 49        | 22.73                 | 22.73                    | 22.77                  | 24                  | 0        |  |
| 20                    | QPSK       | 1       | 99        | 22.80                 | 22.78                    | 22.83                  |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 21.78                 | 21.84                    | 21.85                  |                     |          |  |
| 20                    | QPSK       | 50      | 24        | 21.79                 | 21.82                    | 21.85                  | 23                  | 1        |  |
| 20                    | QPSK       | 50      | 50        | 21.84                 | 21.81                    | 21.87                  |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 21.86                 | 21.92                    | 21.83                  |                     |          |  |
| 20                    | 16QAM      | 1       | 0         | 22.04                 | 22.06                    | 22.21                  |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 22.07                 | 22.06                    | 22.19                  | 23                  | 1        |  |
| 20                    | 16QAM      | 1       | 99        | 22.21                 | 22.11                    | 22.16                  |                     |          |  |
| 20                    | 16QAM      | 50      | 0         | 20.84                 | 20.94                    | 20.92                  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 20.90                 | 20.97                    | 20.98                  |                     |          |  |
| 20                    | 16QAM      | 50      | 50        | 21.03                 | 20.95                    | 21.00                  | 22                  | 2        |  |
| 20                    | 16QAM      | 100     | 0         | 20.96                 | 20.92                    | 20.94                  |                     |          |  |
| 20                    | 64QAM      | 1       | 0         | 20.94                 | 20.97                    | 21.09                  |                     |          |  |
| 20                    | 64QAM      | 1       | 49        | 20.95                 | 20.97                    | 21.09                  | 22                  | 2        |  |
| 20                    | 64QAM      | 1       | 99        | 21.03                 | 21.03                    | 21.09                  |                     |          |  |
| 20                    | 64QAM      | 50      | 0         | 19.81                 | 19.93                    | 19.90                  |                     |          |  |
| 20                    | 64QAM      | 50      | 24        | 19.85                 | 19.85                    | 19.92                  | 21                  | 3        |  |
| 20                    | 64QAM      | 50      | 50        | 20.01                 | 19.94                    | 19.93                  |                     |          |  |
| 20                    | 64QAM      | 100     | 0         | 19.94                 | 19.94                    | 19.96                  |                     |          |  |
| Channel               |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15                    | QPSK       | 1       | 0         | 22.70                 | 22.76                    | 22.82                  |                     |          |  |
| 15                    | QPSK       | 1       | 37        | 22.70                 | 22.72                    | 22.75                  | 24                  | 0        |  |
| 15                    | QPSK       | 1       | 74        | 22.82                 | 22.83                    | 22.85                  |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 21.77                 | 21.83                    | 21.82                  |                     |          |  |
| 15                    | QPSK       | 36      | 20        | 21.76                 | 21.81                    | 21.84                  | 23                  | 1        |  |
| 15                    | QPSK       | 36      | 39        | 21.78                 | 21.83                    | 21.88                  |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 21.75                 | 21.83                    | 21.85                  |                     |          |  |
| 15                    | 16QAM      | 1       | 0         | 22.09                 | 22.11                    | 22.20                  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 22.05                 | 22.06                    | 22.15                  | 23                  | 1        |  |
| 15                    | 16QAM      | 1       | 74        | 22.23                 | 22.19                    | 22.23                  |                     |          |  |
| 15                    | 16QAM      | 36      | 0         | 20.81                 | 20.90                    | 20.91                  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 20.86                 | 20.93                    | 20.96                  | 22                  | 2        |  |
| 15                    | 16QAM      | 36      | 39        | 20.88                 | 20.93                    | 20.95                  |                     |          |  |
| 15                    | 16QAM      | 75      | 0         | 20.86                 | 20.88                    | 20.94                  |                     |          |  |
| 15                    | 64QAM      | 1       | 0         | 21.00                 | 21.04                    | 21.10                  |                     |          |  |
| 15                    | 64QAM      | 1       | 37        | 20.97                 | 20.99                    | 21.04                  | 22                  | 2        |  |
| 15                    | 64QAM      | 1       | 74        | 21.08                 | 21.08                    | 21.12                  |                     |          |  |
| 15                    | 64QAM      | 36      | 0         | 19.79                 | 19.87                    | 19.92                  |                     |          |  |
| 15                    | 64QAM      | 36      | 20        | 19.87                 | 19.92                    | 19.93                  | 21                  | 3        |  |
| 15                    | 64QAM      | 36      | 39        | 19.84                 | 19.91                    | 19.95                  |                     |          |  |
| 15                    | 64QAM      | 75      | 0         | 19.87                 | 19.88                    | 19.93                  |                     |          |  |
| Channel               |            |         |           | 20800                 | 21100                    | 21400                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 22.85                 | 22.72                    | 22.74                  |                     |          |  |
| 10                    | QPSK       | 1       | 25        | 22.68                 | 22.70                    | 22.73                  | 24                  | 0        |  |
| 10                    | QPSK       | 1       | 49        | 22.73                 | 22.76                    | 22.77                  |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 21.69                 | 21.79                    | 21.81                  |                     |          |  |
| 10                    | QPSK       | 25      | 12        | 21.74                 | 21.77                    | 21.78                  | 23                  | 1        |  |
| 10                    | QPSK       | 25      | 25        | 21.76                 | 21.76                    | 21.84                  |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 21.72                 | 21.80                    | 21.80                  |                     |          |  |
| 10                    | 16QAM      | 1       | 0         | 22.04                 | 22.07                    | 22.13                  |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 22.04                 | 22.07                    | 22.12                  | 23                  | 1        |  |
| 10                    | 16QAM      | 1       | 49        | 22.12                 | 22.11                    | 22.17                  |                     |          |  |
| 10                    | 16QAM      | 25      | 0         | 20.80                 | 20.89                    | 20.87                  |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 20.85                 | 20.91                    | 20.94                  | 22                  | 2        |  |
| 10                    | 16QAM      | 25      | 25        | 20.85                 | 20.91                    | 20.89                  |                     |          |  |
| 10                    | 16QAM      | 50      | 0         | 20.80                 | 20.88                    | 20.93                  |                     |          |  |
| 10                    | 64QAM      | 1       | 0         | 20.92                 | 20.95                    | 21.00                  |                     |          |  |
| 10                    | 64QAM      | 1       | 25        | 20.97                 | 20.96                    | 21.00                  | 22                  | 2        |  |
| 10                    | 64QAM      | 1       | 49        | 21.00                 | 20.98                    | 21.08                  |                     |          |  |
| 10                    | 64QAM      | 25      | 0         | 19.81                 | 19.86                    | 19.89                  |                     |          |  |
| 10                    | 64QAM      | 25      | 12        | 19.82                 | 19.90                    | 19.90                  | 21                  | 3        |  |
| 10                    | 64QAM      | 25      | 25        | 19.82                 | 19.90                    | 19.91                  |                     |          |  |
| 10                    | 64QAM      | 50      | 0         | 19.79                 | 19.87                    | 19.91                  |                     |          |  |
| Channel               |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 22.84                 | 22.69                    | 22.73                  |                     |          |  |
| 5                     | QPSK       | 1       | 12        | 22.85                 | 22.69                    | 22.75                  | 24                  | 0        |  |
| 5                     | QPSK       | 1       | 24        | 22.70                 | 22.72                    | 22.76                  |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 21.69                 | 21.74                    | 21.80                  |                     |          |  |
| 5                     | QPSK       | 12      | 7         | 21.75                 | 21.80                    | 21.81                  | 23                  | 1        |  |
| 5                     | QPSK       | 12      | 13        | 21.75                 | 21.77                    | 21.80                  |                     |          |  |
| 5                     | QPSK       | 25      | 0         | 21.71                 | 21.77                    | 21.80                  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 22.00                 | 22.01                    | 22.10                  |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 22.02                 | 22.04                    | 22.07                  | 23                  | 1        |  |
| 5                     | 16QAM      | 1       | 24        | 22.03                 | 22.07                    | 22.13                  |                     |          |  |
| 5                     | 16QAM      | 12      | 0         | 20.77                 | 20.86                    | 20.87                  |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 20.85                 | 20.89                    | 20.95                  | 22                  | 2        |  |
| 5                     | 16QAM      | 12      | 13        | 20.80                 | 20.91                    | 20.94                  |                     |          |  |
| 5                     | 16QAM      | 25      | 0         | 20.81                 | 20.83                    | 20.89                  |                     |          |  |
| 5                     | 64QAM      | 1       | 0         | 20.88                 | 20.94                    | 21.01                  |                     |          |  |
| 5                     | 64QAM      | 1       | 12        | 20.92                 | 20.97                    | 21.00                  | 22                  | 2        |  |
| 5                     | 64QAM      | 1       | 24        | 20.94                 | 20.96                    | 21.03                  |                     |          |  |
| 5                     | 64QAM      | 12      | 0         | 19.77                 | 19.84                    | 19.85                  |                     |          |  |
| 5                     | 64QAM      | 12      | 7         | 19.81                 | 19.89                    | 19.89                  | 21                  | 3        |  |
| 5                     | 64QAM      | 12      | 13        | 19.78                 | 19.88                    | 19.91                  |                     |          |  |
| 5                     | 64QAM      | 25      | 0         | 19.80                 | 19.83                    | 19.87                  |                     |          |  |

| Band 66         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 132072                | 133322                   | 132572                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 22.88                 | 22.88                    | 22.88                  |                     |          |  |
| 20              | QPSK       | 1       | 49        | 22.82                 | 22.89                    | 22.86                  | 24                  | 0        |  |
| 20              | QPSK       | 1       | 99        | 22.82                 | 22.89                    | 22.86                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 21.89                 | 22.09                    | 21.97                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 22.08                 | 21.97                    | 21.91                  | 23                  | 1        |  |
| 20              | QPSK       | 50      | 50        | 21.96                 | 21.98                    | 21.83                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 22.04                 | 22.00                    | 21.94                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 22.43                 | 22.48                    | 22.34                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 22.38                 | 22.36                    | 22.29                  | 23                  | 1        |  |
| 20              | 16QAM      | 1       | 99        | 22.24                 | 22.16                    | 22.09                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 21.21                 | 21.17                    | 21.11                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 21.17                 | 21.13                    | 21.09                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 21.11                 | 21.06                    | 20.98                  | 22                  | 2        |  |
| 20              | 16QAM      | 100     | 0         | 21.13                 | 21.10                    | 21.04                  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 21.29                 | 21.28                    | 21.25                  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 21.30                 | 21.22                    | 21.12                  | 22                  | 2        |  |
| 20              | 64QAM      | 1       | 99        | 21.19                 | 21.09                    | 21.03                  |                     |          |  |
| 20              | 64QAM      | 50      | 0         | 20.20                 | 20.14                    | 20.07                  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 20.18                 | 20.10                    | 20.04                  | 21                  | 3        |  |
| 20              | 64QAM      | 50      | 50        | 20.09                 | 20.03                    | 19.95                  |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 20.19                 | 20.10                    | 20.04                  |                     |          |  |
| Channel         |            |         |           | 132047                | 133322                   | 132597                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.86                 | 22.79                    | 22.71                  |                     |          |  |
| 15              | QPSK       | 1       | 37        | 22.77                 | 22.68                    | 22.60                  | 24                  | 0        |  |
| 15              | QPSK       | 1       | 74        | 22.68                 | 22.62                    | 22.55                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 22.05                 | 22.01                    | 21.90                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 22.03                 | 22.01                    | 21.89                  | 23                  | 1        |  |
| 15              | QPSK       | 36      | 39        | 22.00                 | 21.95                    | 21.82                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.98                 | 21.93                    | 21.85                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 22.44                 | 22.45                    | 22.34                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 22.38                 | 22.35                    | 22.20                  | 23                  | 1        |  |
| 15              | 16QAM      | 1       | 74        | 22.35                 | 22.23                    | 22.16                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 21.20                 | 21.14                    | 21.05                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 21.20                 | 21.15                    | 21.05                  | 22                  | 2        |  |
| 15              | 16QAM      | 36      | 39        | 21.14                 | 21.04                    | 21.00                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 21.13                 | 21.12                    | 20.97                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 21.38                 | 21.34                    | 21.19                  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 21.28                 | 21.19                    | 21.07                  | 22                  | 2        |  |
| 15              | 64QAM      | 1       | 74        | 21.20                 | 21.07                    | 21.02                  |                     |          |  |
| 15              | 64QAM      | 36      | 0         | 20.18                 | 20.13                    | 20.07                  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 20.20                 | 20.12                    | 20.04                  | 21                  | 3        |  |
| 15              | 64QAM      | 36      | 39        | 20.12                 | 20.03                    | 19.97                  |                     |          |  |
| 15              | 64QAM      | 75      | 0         |                       |                          |                        |                     |          |  |



### Band 38(only on channel required)

| 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         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 22.70                 | 22.95                    | 22.89                  | 24                  | 0        |
| 20              | QPSK       | 1       | 49        | 22.82                 | 22.78                    | 22.85                  |                     |          |
| 20              | QPSK       | 1       | 99        | 22.83                 | 22.80                    | 22.87                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.41                 | 22.42                    | 22.40                  | 23                  | 1        |
| 20              | QPSK       | 50      | 24        | 22.41                 | 22.37                    | 22.38                  |                     |          |
| 20              | QPSK       | 50      | 50        | 22.38                 | 22.33                    | 22.39                  |                     |          |
| 20              | QPSK       | 100     | 0         | 22.39                 | 22.41                    | 22.39                  | 23                  | 1        |
| 20              | 16QAM      | 1       | 0         | 22.52                 | 22.50                    | 22.56                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 22.47                 | 22.41                    | 22.52                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 22.44                 | 22.40                    | 22.51                  | 22                  | 2        |
| 20              | 16QAM      | 50      | 0         | 21.53                 | 21.50                    | 21.51                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 21.54                 | 21.50                    | 21.52                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 21.52                 | 21.47                    | 21.53                  | 22                  | 2        |
| 20              | 16QAM      | 100     | 0         | 21.51                 | 21.46                    | 21.53                  |                     |          |
| 20              | 84QAM      | 1       | 0         | 21.24                 | 21.22                    | 21.31                  |                     |          |
| 20              | 84QAM      | 1       | 49        | 21.18                 | 21.17                    | 21.27                  | 22                  | 2        |
| 20              | 84QAM      | 1       | 99        | 21.22                 | 21.19                    | 21.21                  |                     |          |
| 20              | 84QAM      | 50      | 0         | 20.47                 | 20.42                    | 20.45                  |                     |          |
| 20              | 84QAM      | 50      | 24        | 20.45                 | 20.43                    | 20.43                  | 21                  | 3        |
| 20              | 84QAM      | 50      | 50        | 20.46                 | 20.39                    | 20.44                  |                     |          |
| 20              | 84QAM      | 100     | 0         | 20.55                 | 20.51                    | 20.59                  |                     |          |
| Channel         |            |         |           | 37925                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2677.5                | 2695                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 22.87                 | 22.88                    | 22.89                  | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 22.90                 | 22.82                    | 22.85                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.86                 | 22.87                    | 22.95                  |                     |          |
| 15              | QPSK       | 36      | 0         | 22.43                 | 22.34                    | 22.40                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 22.44                 | 22.38                    | 22.39                  |                     |          |
| 15              | QPSK       | 36      | 39        | 22.38                 | 22.36                    | 22.40                  |                     |          |
| 15              | QPSK       | 75      | 0         | 22.42                 | 22.38                    | 22.41                  | 23                  | 1        |
| 15              | 16QAM      | 1       | 0         | 22.51                 | 22.47                    | 22.59                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 22.56                 | 22.44                    | 22.52                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.57                 | 22.45                    | 22.57                  | 22                  | 2        |
| 15              | 16QAM      | 36      | 0         | 21.52                 | 21.45                    | 21.48                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 21.52                 | 21.49                    | 21.52                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.48                 | 21.43                    | 21.47                  | 22                  | 2        |
| 15              | 16QAM      | 75      | 0         | 21.55                 | 21.51                    | 21.53                  |                     |          |
| 15              | 84QAM      | 1       | 0         | 21.32                 | 21.24                    | 21.29                  |                     |          |
| 15              | 84QAM      | 1       | 37        | 21.27                 | 21.18                    | 21.26                  | 22                  | 2        |
| 15              | 84QAM      | 1       | 74        | 21.32                 | 21.21                    | 21.34                  |                     |          |
| 15              | 84QAM      | 36      | 0         | 20.54                 | 20.48                    | 20.52                  |                     |          |
| 15              | 84QAM      | 36      | 20        | 20.55                 | 20.50                    | 20.55                  | 21                  | 3        |
| 15              | 84QAM      | 36      | 39        | 20.53                 | 20.48                    | 20.52                  |                     |          |
| 15              | 84QAM      | 75      | 0         | 20.51                 | 20.51                    | 20.53                  |                     |          |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |
| 10              | QPSK       | 1       | 0         | 22.89                 | 22.76                    | 22.81                  | 24                  | 0        |
| 10              | QPSK       | 1       | 25        | 22.86                 | 22.80                    | 22.85                  |                     |          |
| 10              | QPSK       | 1       | 49        | 22.86                 | 22.80                    | 22.84                  |                     |          |
| 10              | QPSK       | 25      | 0         | 22.37                 | 22.28                    | 22.32                  | 23                  | 1        |
| 10              | QPSK       | 25      | 12        | 22.38                 | 22.31                    | 22.36                  |                     |          |
| 10              | QPSK       | 25      | 25        | 22.35                 | 22.31                    | 22.37                  |                     |          |
| 10              | QPSK       | 50      | 0         | 22.39                 | 22.33                    | 22.36                  | 23                  | 1        |
| 10              | 16QAM      | 1       | 0         | 22.50                 | 22.44                    | 22.48                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 22.50                 | 22.43                    | 22.48                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 22.51                 | 22.40                    | 22.47                  | 22                  | 2        |
| 10              | 16QAM      | 25      | 0         | 21.53                 | 21.44                    | 21.52                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 21.53                 | 21.47                    | 21.51                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 21.52                 | 21.40                    | 21.51                  | 22                  | 2        |
| 10              | 16QAM      | 50      | 0         | 21.54                 | 21.44                    | 21.50                  |                     |          |
| 10              | 84QAM      | 1       | 0         | 21.30                 | 21.18                    | 21.23                  |                     |          |
| 10              | 84QAM      | 1       | 25        | 21.23                 | 21.15                    | 21.22                  | 22                  | 2        |
| 10              | 84QAM      | 1       | 49        | 21.25                 | 21.19                    | 21.23                  |                     |          |
| 10              | 84QAM      | 25      | 0         | 20.47                 | 20.40                    | 20.45                  |                     |          |
| 10              | 84QAM      | 25      | 12        | 20.46                 | 20.41                    | 20.47                  | 21                  | 3        |
| 10              | 84QAM      | 25      | 25        | 20.45                 | 20.37                    | 20.47                  |                     |          |
| 10              | 84QAM      | 50      | 0         | 20.45                 | 20.38                    | 20.43                  |                     |          |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2672.5                | 2695                     | 2617.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 22.89                 | 22.85                    | 22.81                  | 24                  | 0        |
| 5               | QPSK       | 1       | 12        | 22.88                 | 22.83                    | 22.86                  |                     |          |
| 5               | QPSK       | 1       | 24        | 22.82                 | 22.77                    | 22.80                  |                     |          |
| 5               | QPSK       | 12      | 0         | 22.41                 | 22.36                    | 22.36                  | 23                  | 1        |
| 5               | QPSK       | 12      | 7         | 22.44                 | 22.38                    | 22.41                  |                     |          |
| 5               | QPSK       | 12      | 13        | 22.41                 | 22.36                    | 22.40                  |                     |          |
| 5               | QPSK       | 25      | 0         | 22.40                 | 22.35                    | 22.36                  | 23                  | 1        |
| 5               | 16QAM      | 1       | 0         | 22.53                 | 22.43                    | 22.48                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 22.55                 | 22.46                    | 22.50                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 22.53                 | 22.46                    | 22.49                  | 22                  | 2        |
| 5               | 16QAM      | 12      | 0         | 21.52                 | 21.39                    | 21.46                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 21.50                 | 21.45                    | 21.48                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 21.46                 | 21.42                    | 21.49                  | 22                  | 2        |
| 5               | 16QAM      | 25      | 0         | 21.54                 | 21.51                    | 21.53                  |                     |          |
| 5               | 84QAM      | 1       | 0         | 21.30                 | 21.23                    | 21.24                  |                     |          |
| 5               | 84QAM      | 1       | 12        | 21.29                 | 21.20                    | 21.26                  | 22                  | 2        |
| 5               | 84QAM      | 1       | 24        | 21.30                 | 21.19                    | 21.24                  |                     |          |
| 5               | 84QAM      | 12      | 0         | 20.48                 | 20.40                    | 20.43                  |                     |          |
| 5               | 84QAM      | 12      | 7         | 20.56                 | 20.46                    | 20.50                  | 21                  | 3        |
| 5               | 84QAM      | 12      | 13        | 20.46                 | 20.42                    | 20.46                  |                     |          |
| 5               | 84QAM      | 25      | 0         | 20.49                 | 20.46                    | 20.45                  |                     |          |

### Band 41 (2.6G Band)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 40140                 | 40390                    | 40640                  | 40890                        | 41140                         |                        |                     |          |
| Frequency (MHz) |            |         |           | 2545                  | 2570                     | 2595                   | 2620                         | 2645                          |                        |                     |          |
| 20              | QPSK       | 1       | 0         | 22.64                 | 22.71                    | 22.85                  | 22.98                        | 22.88                         | 24                     | 0                   |          |
| 20              | QPSK       | 1       | 49        | 22.68                 | 22.78                    | 22.90                  | 22.81                        | 22.93                         |                        |                     |          |
| 20              | QPSK       | 1       | 99        | 22.84                 | 22.82                    | 22.92                  | 22.86                        | 22.95                         |                        |                     |          |
| 20              | QPSK       | 50      | 0         | 21.79                 | 21.85                    | 21.93                  | 22.00                        | 21.96                         | 23                     | 1                   |          |
| 20              | QPSK       | 50      | 24        | 21.86                 | 21.89                    | 21.96                  | 21.83                        | 21.99                         |                        |                     |          |
| 20              | QPSK       | 50      | 50        | 21.83                 | 21.86                    | 21.90                  | 21.88                        | 21.93                         |                        |                     |          |
| 20              | QPSK       | 100     | 0         | 21.84                 | 21.79                    | 21.92                  | 21.95                        | 21.95                         | 23                     | 1                   |          |
| 20              | 16QAM      | 1       | 0         | 21.91                 | 21.88                    | 21.99                  | 21.91                        | 22.02                         |                        |                     |          |
| 20              | 16QAM      | 1       | 49        | 21.90                 | 21.91                    | 22.00                  | 21.94                        | 22.03                         |                        |                     |          |
| 20              | 16QAM      | 1       | 99        | 21.95                 | 22.00                    | 22.00                  | 21.98                        | 22.03                         | 22                     | 2                   |          |
| 20              | 16QAM      | 50      | 0         | 20.90                 | 20.96                    | 21.05                  | 20.97                        | 21.08                         |                        |                     |          |
| 20              | 16QAM      | 50      | 24        | 20.97                 | 20.95                    | 21.07                  | 20.99                        | 21.10                         |                        |                     |          |
| 20              | 16QAM      | 50      | 50        | 20.97                 | 20.96                    | 21.06                  | 21.00                        | 21.09                         | 22                     | 2                   |          |
| 20              | 16QAM      | 100     | 0         | 20.93                 | 20.98                    | 20.96                  | 20.98                        | 21.07                         |                        |                     |          |
| 20              | 84QAM      | 1       | 0         | 20.89                 | 20.80                    | 20.78                  | 20.91                        | 21.03                         |                        |                     |          |
| 20              | 84QAM      | 1       | 49        | 20.82                 | 20.97                    | 20.95                  | 20.93                        | 21.03                         | 22                     | 2                   |          |
| 20              | 84QAM      | 1       | 99        | 20.74                 | 20.95                    | 20.93                  | 20.92                        | 21.00                         |                        |                     |          |
| 20              | 84QAM      | 50      | 0         | 20.05                 | 20.12                    | 20.10                  | 20.14                        | 20.28                         |                        |                     |          |
| 20              | 84QAM      | 50      | 24        | 20.14                 | 20.11                    | 20.09                  | 20.14                        | 20.22                         | 21                     | 3                   |          |
| 20              | 84QAM      | 50      | 50        | 20.09                 | 20.14                    | 20.12                  | 20.14                        | 20.24                         |                        |                     |          |
| 20              | 84QAM      | 100     | 0         | 20.19                 | 20.21                    | 20.19                  | 20.23                        | 20.32                         |                        |                     |          |
| Channel         |            |         |           | 40115                 | 40378                    | 40640                  | 40903                        | 41165                         | Tune-up limit (dBm)    | MPR (dB)            |          |
| Frequency (MHz) |            |         |           | 2542.5                | 2568.8                   | 2595                   | 2621.3                       | 2647.5                        |                        |                     |          |
| 15              | QPSK       | 1       | 0         | 22.72                 | 22.77                    | 22.69                  | 22.78                        | 22.82                         | 24                     | 0                   |          |
| 15              | QPSK       | 1       | 37        | 22.73                 | 22.81                    | 22.70                  | 22.77                        | 22.84                         |                        |                     |          |
| 15              | QPSK       | 1       | 74        | 22.87                 | 22.83                    | 22.84                  | 22.83                        | 22.97                         |                        |                     |          |
| 15              | QPSK       | 36      | 0         | 21.74                 | 21.82                    | 21.71                  | 21.79                        | 21.92                         | 23                     | 1                   |          |
| 15              | QPSK       | 36      | 20        | 21.88                 | 21.82                    | 21.85                  | 21.86                        | 21.95                         |                        |                     |          |
| 15              | QPSK       | 36      | 39        | 21.88                 | 21.81                    | 21.85                  | 21.83                        | 21.91                         |                        |                     |          |
| 15              | QPSK       | 75      | 0         | 21.86                 | 21.82                    | 21.83                  | 21.77                        | 21.93                         | 23                     | 1                   |          |
| 15              | 16QAM      | 1       | 0         | 21.85                 | 21.87                    | 22.07                  | 22.03                        | 22.10                         |                        |                     |          |
| 15              | 16QAM      | 1       | 37        | 21.91                 | 21.90                    | 21.99                  | 21.96                        | 22.02                         |                        |                     |          |
| 15              | 16QAM      | 1       | 74        | 21.99                 | 21.94                    | 21.98                  | 22.07                        | 22.01                         | 22                     | 2                   |          |
| 15              | 16QAM      | 36      | 0         | 20.83                 | 20.90                    | 20.95                  | 20.88                        | 20.98                         |                        |                     |          |
| 15              | 16QAM      | 36      | 20        | 20.90                 | 20.91                    | 20.98                  | 20.90                        | 21.01                         |                        |                     |          |
| 15              | 16QAM      | 36      | 39        | 20.90                 | 20.91                    | 20.99                  | 20.88                        | 21.02                         | 22                     | 2                   |          |
| 15              | 16QAM      | 75      | 0         | 20.92                 | 20.94                    | 21.01                  | 20.99                        | 21.04                         |                        |                     |          |
| 15              | 84QAM      | 1       | 0         | 20.83                 | 20.89                    | 20.94                  | 20.92                        | 20.97                         |                        |                     |          |
| 15              | 84QAM      | 1       | 37        | 20.83                 | 20.93                    | 20.98                  | 20.98                        | 21.01                         | 22                     | 2                   |          |
| 15              | 84QAM      | 1       | 74        | 20.91                 | 20.90                    | 20.99                  | 20.94                        | 21.02                         |                        |                     |          |
| 15              | 84QAM      | 36      | 0         | 20.11                 | 20.14                    | 20.11                  | 20.13                        | 20.24                         |                        |                     |          |
| 15              | 84QAM      | 36      | 20        | 20.17                 | 20.16                    | 20.15                  | 20.17                        | 20.24                         | 21                     | 3                   |          |
| 15              | 84QAM      | 36      | 39        | 20.14                 | 20.18                    | 20.16                  | 20.18                        | 20.26                         |                        |                     |          |
| 15              | 84QAM      | 75      | 0         | 20.15                 | 20.17                    | 20.15                  | 20.17                        | 20.29                         |                        |                     |          |
| Channel         |            |         |           | 40090                 | 40365                    | 40640                  | 40915                        | 41190</                       |                        |                     |          |



### Reduced Power Mode for Sensor on/Hotspot on

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.87                     | 30.93 | 31.06 | 31.50               | 21.87                     | 21.93 | 22.06 | 22.50               |
| GPRS 1 Tx slot  | 30.86                     | 30.92 | 31.05 | 31.50               | 21.86                     | 21.92 | 22.05 | 22.50               |
| GPRS 2 Tx slots | 28.82                     | 28.77 | 28.91 | 29.50               | 22.82                     | 22.77 | 22.91 | 23.50               |
| GPRS 3 Tx slots | 28.06                     | 28.00 | 27.99 | 29.00               | 23.80                     | 23.74 | 23.73 | 24.74               |
| GPRS 4 Tx slots | 26.37                     | 26.27 | 26.39 | 27.50               | 23.37                     | 23.27 | 23.39 | 24.50               |
| EDGE 1 Tx slot  | 25.27                     | 25.30 | 25.28 | 25.50               | 16.27                     | 16.30 | 16.28 | 16.50               |
| EDGE 2 Tx slots | 23.71                     | 23.71 | 23.75 | 24.50               | 17.71                     | 17.71 | 17.75 | 18.50               |
| EDGE 3 Tx slots | 22.36                     | 22.35 | 22.37 | 22.50               | 18.10                     | 18.09 | 18.11 | 18.24               |
| EDGE 4 Tx slots | 20.57                     | 20.59 | 20.62 | 21.50               | 17.57                     | 17.59 | 17.62 | 18.50               |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 21.05                     | 21.11 | 21.13  | 21.50               | 12.05                     | 12.11 | 12.13  | 12.50               |
| GPRS 1 Tx slot  | 21.05                     | 21.10 | 21.12  | 21.50               | 12.05                     | 12.10 | 12.12  | 12.50               |
| GPRS 2 Tx slots | 20.11                     | 19.97 | 19.95  | 20.50               | 14.11                     | 13.97 | 13.95  | 14.50               |
| GPRS 3 Tx slots | 18.31                     | 18.32 | 18.30  | 19.00               | 14.05                     | 14.06 | 14.04  | 14.74               |
| GPRS 4 Tx slots | 17.06                     | 17.16 | 17.17  | 17.50               | 14.06                     | 14.16 | 14.17  | 14.50               |
| EDGE 1 Tx slot  | 17.97                     | 17.88 | 17.99  | 18.50               | 9.97                      | 9.88  | 9.99   | 9.50                |
| EDGE 2 Tx slots | 15.31                     | 15.21 | 15.34  | 16.50               | 9.31                      | 9.21  | 9.34   | 10.50               |
| EDGE 3 Tx slots | 14.68                     | 14.63 | 14.62  | 15.50               | 10.42                     | 10.37 | 10.66  | 11.24               |
| EDGE 4 Tx slots | 12.76                     | 12.76 | 12.50  | 13.50               | 9.76                      | 9.76  | 9.50   | 10.50               |

| Band        | TX Channel         | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|             |                    | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
|             | 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       | 12.45    | 12.46 | 12.35  | 13.00               | 12.18    | 12.29  | 12.14  | 13.00               | 20.06   | 19.96 | 19.96 | 21.50               |
| 3GPP Rel 99 | RMC 12.2kbps       | 12.46    | 12.47 | 12.36  | 13.00               | 12.19    | 12.31  | 12.15  | 13.00               | 20.07   | 19.98 | 19.97 | 21.50               |
| 3GPP Rel 6  | HSDPA Subtest-1    | 11.75    | 11.55 | 11.61  | 12.00               | 11.82    | 11.81  | 11.62  | 12.00               | 19.86   | 19.74 | 19.79 | 20.50               |
| 3GPP Rel 6  | HSDPA Subtest-2    | 11.72    | 11.57 | 11.61  | 12.00               | 11.83    | 11.80  | 11.58  | 12.00               | 19.70   | 19.60 | 19.58 | 20.50               |
| 3GPP Rel 6  | HSDPA Subtest-3    | 11.23    | 11.01 | 11.03  | 11.50               | 11.27    | 11.30  | 11.11  | 11.50               | 19.20   | 19.05 | 19.12 | 20.00               |
| 3GPP Rel 6  | HSDPA Subtest-4    | 11.27    | 11.00 | 11.04  | 11.50               | 11.32    | 11.29  | 11.12  | 11.50               | 19.20   | 19.10 | 19.12 | 20.00               |
| 3GPP Rel 8  | DC-HSDPA Subtest-1 | 11.63    | 11.42 | 11.52  | 12.00               | 11.70    | 11.68  | 11.53  | 12.00               | 19.63   | 19.64 | 19.63 | 20.50               |
| 3GPP Rel 8  | DC-HSDPA Subtest-2 | 11.70    | 11.47 | 11.52  | 12.00               | 11.70    | 11.51  | 11.52  | 12.00               | 19.59   | 19.61 | 19.70 | 20.50               |
| 3GPP Rel 8  | DC-HSDPA Subtest-3 | 11.11    | 10.88 | 10.94  | 11.50               | 11.15    | 11.17  | 11.02  | 11.50               | 19.14   | 19.10 | 19.12 | 20.00               |
| 3GPP Rel 8  | DC-HSDPA Subtest-4 | 11.21    | 10.87 | 10.95  | 11.50               | 11.14    | 11.16  | 11.03  | 11.50               | 19.05   | 19.15 | 19.23 | 20.00               |
| 3GPP Rel 6  | HSUPA Subtest-1    | 11.68    | 11.43 | 11.51  | 12.00               | 11.63    | 11.61  | 11.42  | 12.00               | 19.67   | 19.58 | 19.55 | 20.50               |
| 3GPP Rel 6  | HSUPA Subtest-2    | 9.69     | 9.48  | 9.52   | 10.00               | 9.63     | 9.63   | 9.45   | 10.00               | 17.67   | 17.60 | 17.61 | 18.50               |
| 3GPP Rel 6  | HSUPA Subtest-3    | 10.67    | 10.44 | 10.53  | 11.00               | 10.66    | 10.60  | 10.43  | 11.00               | 18.65   | 18.57 | 18.61 | 19.50               |
| 3GPP Rel 6  | HSUPA Subtest-4    | 9.71     | 9.46  | 9.52   | 10.00               | 9.62     | 9.68   | 9.43   | 10.00               | 17.62   | 17.55 | 17.57 | 18.50               |
| 3GPP Rel 6  | HSUPA Subtest-5    | 11.70    | 11.50 | 11.50  | 12.00               | 11.63    | 11.63  | 11.43  | 12.00               | 19.70   | 19.60 | 19.60 | 20.50               |



| Band 2 (1900MHz Band) |            |         |           |                       |                          |                        |                     |          |        |  |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--------|--|--|
| Part 24E              |            |         |           |                       |                          |                        |                     |          |        |  |  |
| 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               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1870                | 1890     | 1910   |  |  |
| 20                    | QPSK       | 1       | 0         | 12.30                 | 12.30                    | 12.30                  |                     |          |        |  |  |
| 20                    | QPSK       | 1       | 49        | 12.39                 | 12.29                    | 12.42                  | 13                  | 0        |        |  |  |
| 20                    | QPSK       | 1       | 99        | 12.20                 | 12.26                    | 12.28                  |                     |          |        |  |  |
| 20                    | QPSK       | 50      | 0         | 12.43                 | 12.45                    | 12.43                  |                     |          |        |  |  |
| 20                    | QPSK       | 50      | 24        | 12.33                 | 12.32                    | 12.40                  | 13                  | 0        |        |  |  |
| 20                    | QPSK       | 50      | 50        | 12.37                 | 12.20                    | 12.35                  |                     |          |        |  |  |
| 20                    | QPSK       | 100     | 0         | 12.41                 | 12.43                    | 12.36                  |                     |          |        |  |  |
| 20                    | 16QAM      | 1       | 0         | 12.42                 | 12.44                    | 12.48                  |                     |          |        |  |  |
| 20                    | 16QAM      | 1       | 49        | 12.32                 | 12.39                    | 12.45                  | 13                  | 0        |        |  |  |
| 20                    | 16QAM      | 1       | 99        | 12.29                 | 12.37                    | 12.27                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 0         | 12.31                 | 12.15                    | 12.26                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 24        | 12.25                 | 12.15                    | 12.33                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 50        | 12.17                 | 12.00                    | 12.18                  | 13                  | 0        |        |  |  |
| 20                    | 16QAM      | 100     | 0         | 12.21                 | 12.07                    | 12.17                  |                     |          |        |  |  |
| 20                    | 16QAM      | 1       | 0         | 12.40                 | 12.30                    | 12.44                  |                     |          |        |  |  |
| 20                    | 16QAM      | 1       | 49        | 12.35                 | 12.25                    | 12.41                  | 13                  | 0        |        |  |  |
| 20                    | 16QAM      | 1       | 99        | 12.15                 | 12.00                    | 12.15                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 0         | 12.32                 | 12.14                    | 12.25                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 24        | 12.23                 | 12.13                    | 12.32                  |                     |          |        |  |  |
| 20                    | 16QAM      | 50      | 50        | 12.13                 | 12.00                    | 12.17                  | 13                  | 0        |        |  |  |
| 20                    | 16QAM      | 100     | 0         | 12.22                 | 12.08                    | 12.18                  |                     |          |        |  |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1875.5              | 1890     | 1912.5 |  |  |
| 15                    | QPSK       | 1       | 0         | 12.41                 | 12.32                    | 12.48                  |                     |          |        |  |  |
| 15                    | QPSK       | 1       | 37        | 12.31                 | 12.25                    | 12.39                  | 13                  | 0        |        |  |  |
| 15                    | QPSK       | 1       | 74        | 12.27                 | 12.09                    | 12.17                  |                     |          |        |  |  |
| 15                    | QPSK       | 36      | 0         | 12.38                 | 12.32                    | 12.46                  |                     |          |        |  |  |
| 15                    | QPSK       | 36      | 20        | 12.46                 | 12.30                    | 12.42                  | 13                  | 0        |        |  |  |
| 15                    | QPSK       | 36      | 39        | 12.39                 | 12.22                    | 12.32                  |                     |          |        |  |  |
| 15                    | QPSK       | 75      | 0         | 12.46                 | 12.28                    | 12.40                  |                     |          |        |  |  |
| 15                    | 16QAM      | 1       | 0         | 12.45                 | 12.43                    | 12.45                  |                     |          |        |  |  |
| 15                    | 16QAM      | 1       | 37        | 12.37                 | 12.36                    | 12.48                  | 13                  | 0        |        |  |  |
| 15                    | 16QAM      | 1       | 74        | 12.33                 | 12.13                    | 12.27                  |                     |          |        |  |  |
| 15                    | 16QAM      | 36      | 0         | 12.16                 | 12.16                    | 12.29                  |                     |          |        |  |  |
| 15                    | 16QAM      | 36      | 20        | 12.38                 | 12.32                    | 12.46                  | 13                  | 0        |        |  |  |
| 15                    | 16QAM      | 36      | 39        | 12.17                 | 12.00                    | 12.15                  |                     |          |        |  |  |
| 15                    | 16QAM      | 75      | 0         | 12.27                 | 12.08                    | 12.19                  |                     |          |        |  |  |
| 15                    | 16QAM      | 1       | 0         | 12.34                 | 12.32                    | 12.45                  |                     |          |        |  |  |
| 15                    | 16QAM      | 1       | 37        | 12.23                 | 12.26                    | 12.38                  | 13                  | 0        |        |  |  |
| 15                    | 16QAM      | 1       | 74        | 12.23                 | 12.02                    | 12.18                  |                     |          |        |  |  |
| 15                    | 16QAM      | 36      | 0         | 12.16                 | 12.16                    | 12.28                  |                     |          |        |  |  |
| 15                    | 16QAM      | 36      | 20        | 12.30                 | 12.16                    | 12.24                  | 13                  | 0        |        |  |  |
| 15                    | 16QAM      | 36      | 39        | 12.17                 | 11.99                    | 12.18                  |                     |          |        |  |  |
| 15                    | 16QAM      | 75      | 0         | 12.25                 | 12.08                    | 12.22                  |                     |          |        |  |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1895.0              | 1890     | 1915.0 |  |  |
| 10                    | QPSK       | 1       | 0         | 12.41                 | 12.40                    | 12.47                  |                     |          |        |  |  |
| 10                    | QPSK       | 1       | 25        | 12.32                 | 12.24                    | 12.36                  | 13                  | 0        |        |  |  |
| 10                    | QPSK       | 1       | 49        | 12.40                 | 12.20                    | 12.21                  |                     |          |        |  |  |
| 10                    | QPSK       | 25      | 0         | 12.40                 | 12.32                    | 12.40                  |                     |          |        |  |  |
| 10                    | QPSK       | 25      | 12        | 12.40                 | 12.31                    | 12.37                  | 13                  | 0        |        |  |  |
| 10                    | QPSK       | 25      | 25        | 12.43                 | 12.23                    | 12.29                  |                     |          |        |  |  |
| 10                    | QPSK       | 50      | 0         | 12.39                 | 12.32                    | 12.38                  |                     |          |        |  |  |
| 10                    | 16QAM      | 1       | 0         | 12.39                 | 12.38                    | 12.46                  |                     |          |        |  |  |
| 10                    | 16QAM      | 1       | 25        | 12.33                 | 12.33                    | 12.28                  | 13                  | 0        |        |  |  |
| 10                    | 16QAM      | 1       | 49        | 12.22                 | 12.15                    | 12.23                  |                     |          |        |  |  |
| 10                    | 16QAM      | 25      | 0         | 12.18                 | 12.14                    | 12.20                  |                     |          |        |  |  |
| 10                    | 16QAM      | 25      | 12        | 12.24                 | 12.07                    | 12.11                  | 13                  | 0        |        |  |  |
| 10                    | 16QAM      | 25      | 25        | 12.28                 | 12.13                    | 12.19                  |                     |          |        |  |  |
| 10                    | 16QAM      | 50      | 0         | 12.44                 | 12.40                    | 12.41                  |                     |          |        |  |  |
| 10                    | 16QAM      | 50      | 0         | 12.25                 | 12.29                    | 12.34                  |                     |          |        |  |  |
| 10                    | 16QAM      | 50      | 0         | 12.35                 | 12.36                    | 12.16                  |                     |          |        |  |  |
| 10                    | 16QAM      | 1       | 25        | 12.37                 | 12.40                    | 12.41                  | 13                  | 0        |        |  |  |
| 10                    | 16QAM      | 1       | 49        | 12.32                 | 12.36                    | 12.27                  |                     |          |        |  |  |
| 10                    | 16QAM      | 25      | 0         | 12.33                 | 12.41                    | 12.20                  |                     |          |        |  |  |
| 10                    | 16QAM      | 25      | 12        | 12.31                 | 12.40                    | 12.23                  | 13                  | 0        |        |  |  |
| 10                    | 16QAM      | 25      | 25        | 12.41                 | 12.29                    | 12.22                  |                     |          |        |  |  |
| 10                    | 16QAM      | 50      | 0         | 12.40                 | 12.32                    | 12.15                  |                     |          |        |  |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1897.5              | 1890     | 1917.5 |  |  |
| 5                     | QPSK       | 1       | 0         | 12.43                 | 12.29                    | 12.33                  |                     |          |        |  |  |
| 5                     | QPSK       | 1       | 12        | 12.38                 | 12.27                    | 12.32                  | 13                  | 0        |        |  |  |
| 5                     | QPSK       | 1       | 24        | 12.28                 | 12.18                    | 12.18                  |                     |          |        |  |  |
| 5                     | QPSK       | 12      | 0         | 12.45                 | 12.29                    | 12.38                  |                     |          |        |  |  |
| 5                     | QPSK       | 12      | 7         | 12.46                 | 12.29                    | 12.37                  | 13                  | 0        |        |  |  |
| 5                     | QPSK       | 12      | 13        | 12.36                 | 12.26                    | 12.32                  |                     |          |        |  |  |
| 5                     | QPSK       | 25      | 0         | 12.42                 | 12.24                    | 12.34                  |                     |          |        |  |  |
| 5                     | 16QAM      | 1       | 0         | 12.40                 | 12.37                    | 12.41                  |                     |          |        |  |  |
| 5                     | 16QAM      | 1       | 12        | 12.42                 | 12.36                    | 12.42                  | 13                  | 0        |        |  |  |
| 5                     | 16QAM      | 1       | 24        | 12.33                 | 12.29                    | 12.30                  |                     |          |        |  |  |
| 5                     | 16QAM      | 12      | 0         | 12.21                 | 12.16                    | 12.22                  |                     |          |        |  |  |
| 5                     | 16QAM      | 12      | 7         | 12.21                 | 12.13                    | 12.18                  | 13                  | 0        |        |  |  |
| 5                     | 16QAM      | 12      | 13        | 12.15                 | 12.09                    | 12.15                  |                     |          |        |  |  |
| 5                     | 16QAM      | 25      | 0         | 12.19                 | 12.10                    | 12.16                  |                     |          |        |  |  |
| 5                     | 16QAM      | 25      | 0         | 12.29                 | 12.25                    | 12.33                  |                     |          |        |  |  |
| 5                     | 16QAM      | 1       | 12        | 12.30                 | 12.22                    | 12.27                  | 13                  | 0        |        |  |  |
| 5                     | 16QAM      | 1       | 24        | 12.23                 | 12.14                    | 12.18                  |                     |          |        |  |  |
| 5                     | 16QAM      | 12      | 0         | 12.21                 | 12.15                    | 12.17                  |                     |          |        |  |  |
| 5                     | 16QAM      | 12      | 7         | 12.17                 | 12.13                    | 12.20                  | 13                  | 0        |        |  |  |
| 5                     | 16QAM      | 12      | 13        | 12.15                 | 12.08                    | 12.12                  |                     |          |        |  |  |
| 5                     | 16QAM      | 25      | 0         | 12.18                 | 12.10                    | 12.13                  |                     |          |        |  |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1897.5              | 1890     | 1917.5 |  |  |
| 3                     | QPSK       | 1       | 0         | 12.36                 | 12.29                    | 12.43                  |                     |          |        |  |  |
| 3                     | QPSK       | 1       | 8         | 12.28                 | 12.24                    | 12.38                  | 13                  | 0        |        |  |  |
| 3                     | QPSK       | 1       | 14        | 12.26                 | 12.04                    | 12.12                  |                     |          |        |  |  |
| 3                     | QPSK       | 8       | 0         | 12.35                 | 12.29                    | 12.47                  |                     |          |        |  |  |
| 3                     | QPSK       | 8       | 4         | 12.41                 | 12.27                    | 12.37                  | 13                  | 0        |        |  |  |
| 3                     | QPSK       | 8       | 7         | 12.38                 | 12.17                    | 12.31                  |                     |          |        |  |  |
| 3                     | QPSK       | 15      | 0         | 12.43                 | 12.25                    | 12.37                  |                     |          |        |  |  |
| 3                     | 16QAM      | 1       | 0         | 12.44                 | 12.42                    | 12.50                  |                     |          |        |  |  |
| 3                     | 16QAM      | 1       | 8         | 12.32                 | 12.31                    | 12.47                  | 13                  | 0        |        |  |  |
| 3                     | 16QAM      | 1       | 14        | 12.32                 | 12.12                    | 12.24                  |                     |          |        |  |  |
| 3                     | 16QAM      | 8       | 0         | 12.11                 | 12.11                    | 12.28                  |                     |          |        |  |  |
| 3                     | 16QAM      | 8       | 4         | 12.31                 | 12.13                    | 12.21                  | 13                  | 0        |        |  |  |
| 3                     | 16QAM      | 8       | 7         | 12.12                 | 11.99                    | 12.10                  |                     |          |        |  |  |
| 3                     | 16QAM      | 15      | 0         | 12.26                 | 12.03                    | 12.18                  |                     |          |        |  |  |
| 3                     | 16QAM      | 1       | 0         | 12.33                 | 12.29                    | 12.44                  |                     |          |        |  |  |
| 3                     | 16QAM      | 1       | 8         | 12.18                 | 12.25                    | 12.33                  | 13                  | 0        |        |  |  |
| 3                     | 16QAM      | 1       | 14        | 12.22                 | 11.97                    | 12.17                  |                     |          |        |  |  |
| 3                     | 16QAM      | 8       | 0         | 12.13                 | 12.15                    | 12.25                  |                     |          |        |  |  |
| 3                     | 16QAM      | 8       | 4         | 12.25                 | 12.15                    | 12.19                  | 13                  | 0        |        |  |  |
| 3                     | 16QAM      | 8       | 7         | 12.14                 | 11.94                    | 12.17                  |                     |          |        |  |  |
| 3                     | 16QAM      | 15      | 0         | 12.25                 | 12.07                    | 12.21                  |                     |          |        |  |  |
| Channel               |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |        |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        | 1897.5              | 1890     | 1917.5 |  |  |
| 1.4                   | QPSK       | 1       | 0         | 12.31                 | 12.26                    | 12.38                  |                     |          |        |  |  |
| 1.4                   | QPSK       | 1       | 3         | 12.25                 | 12.23                    | 12.37                  | 13                  | 0        |        |  |  |
| 1.4                   | QPSK       | 1       | 5         | 12.25                 | 11.99                    | 12.07                  |                     |          |        |  |  |
| 1.4                   | QPSK       | 3       | 0         | 12.32                 | 12.26                    | 12.46                  |                     |          |        |  |  |
| 1.4                   | QPSK       | 3       | 1         | 12.36                 | 12.24                    | 12.32                  | 13                  | 0        |        |  |  |
| 1.4                   | QPSK       | 3       | 3         | 12.37                 | 12.12                    | 12.30                  |                     |          |        |  |  |
| 1.4                   | QPSK       | 6       | 0         | 12.40                 | 12.22                    | 12.34                  | 13                  | 0        |        |  |  |
| 1.4                   | 16QAM      | 1       | 0         | 12.43                 | 12.41                    | 12.45                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 1       | 3         | 12.27                 | 12.26                    | 12.46                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 1       | 5         | 12.31                 | 12.11                    | 12.21                  | 13                  | 0        |        |  |  |
| 1.4                   | 16QAM      | 3       | 0         | 12.06                 | 12.06                    | 12.27                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 3       | 1         | 12.30                 | 12.10                    | 12.16                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 3       | 3         | 12.07                 | 11.98                    | 12.05                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 6       | 0         | 12.25                 | 11.98                    | 12.17                  | 13                  | 0        |        |  |  |
| 1.4                   | 16QAM      | 1       | 0         | 12.32                 | 12.26                    | 12.33                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 1       | 3         | 12.13                 | 12.24                    | 12.28                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 1       | 5         | 12.21                 | 11.92                    | 12.16                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 3       | 0         | 12.10                 | 12.14                    | 12.22                  | 13                  | 0        |        |  |  |
| 1.4                   | 16QAM      | 3       | 1         | 12.20                 | 12.14                    | 12.14                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 3       | 3         | 12.11                 | 11.89                    | 12.16                  |                     |          |        |  |  |
| 1.4                   | 16QAM      | 6       | 0         | 12.24                 | 12.06                    | 12.20                  | 13                  | 0        |        |  |  |

| Band 4 (AWS Band)                   |            |         |           |                       |                          |                        |                     |          |      |  |  |
|-------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|--|--|
| Part 27L (only on channel required) |            |         |           |                       |                          |                        |                     |          |      |  |  |
| 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                             |            |         |           |                       |                          |                        | Tune-up limit (dBm) | MPR (dB) |      |  |  |
| Frequency (MHz)                     |            |         |           |                       |                          |                        | 2065                | 2075     | 2030 |  |  |
| 20                                  | QPSK       | 1       | 0         | 12.20                 | 12.46                    | 12.24                  |                     |          |      |  |  |
| 20                                  | QPSK       | 1       | 49        | 12.33                 | 12.28                    | 12.17                  | 13                  | 0        |      |  |  |
| 20                                  | QPSK       | 1       | 99        | 12.20                 | 12.11                    | 12.00                  |                     |          |      |  |  |
| 20                                  | QPSK       | 50      | 0         | 12.37                 | 12.45                    | 12.19                  |                     |          |      |  |  |
| 20                                  | QPSK       | 50      | 24        | 12.32                 | 12.29                    | 12.24                  | 13                  | 0        |      |  |  |
| 20                                  | QPSK       | 50      | 50        | 12.32                 | 12.17                    | 12.07                  |                     |          |      |  |  |
| 20                                  | QPSK       | 100     | 0         | 12.36                 | 12.37                    | 12.22                  |                     |          |      |  |  |
| 20                                  | 16QAM      | 1       | 0         | 12.38                 | 12.39                    | 12.27                  |                     |          |      |  |  |
| 20                                  | 16QAM      | 1       | 49        | 12.26                 | 12.34                    | 12.22                  | 13                  | 0        |      |  |  |
| 20                                  | 16QAM      | 1       | 99        | 12.26                 | 12.14                    | 12.10                  |                     |          |      |  |  |
| 20                                  | 16QAM      | 50      | 0         | 12.21                 | 12.19                    | 12.23                  |                     |          |      |  |  |
| 20                                  | 16QAM      | 50      | 24        |                       |                          |                        |                     |          |      |  |  |



| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| Part 27               |            |         |           |                       |                          |                        |                     |          |  |
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel               |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2570                  | 2595                     | 2590                   |                     |          |  |
| 20                    | QPSK       | 1       | 0         | 15.33                 | 15.61                    | 15.29                  |                     |          |  |
| 20                    | QPSK       | 1       | 49        | 15.26                 | 15.33                    | 15.45                  | 16                  | 0        |  |
| 20                    | QPSK       | 1       | 99        | 15.30                 | 15.37                    | 15.44                  |                     |          |  |
| 20                    | QPSK       | 50      | 0         | 15.23                 | 15.36                    | 15.29                  |                     |          |  |
| 20                    | QPSK       | 50      | 24        | 15.28                 | 15.28                    | 15.35                  | 16                  | 0        |  |
| 20                    | QPSK       | 50      | 50        | 15.27                 | 15.24                    | 15.28                  |                     |          |  |
| 20                    | QPSK       | 100     | 0         | 15.27                 | 15.34                    | 15.33                  |                     |          |  |
| 20                    | 16QAM      | 1       | 0         | 15.24                 | 15.14                    | 15.40                  | 16                  | 0        |  |
| 20                    | 16QAM      | 1       | 49        | 15.26                 | 15.31                    | 15.33                  |                     |          |  |
| 20                    | 16QAM      | 1       | 99        | 15.26                 | 15.24                    | 15.35                  |                     |          |  |
| 20                    | 16QAM      | 50      | 0         | 15.25                 | 15.24                    | 15.48                  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 15.39                 | 15.36                    | 15.48                  | 16                  | 0        |  |
| 20                    | 16QAM      | 50      | 50        | 15.36                 | 15.36                    | 15.30                  |                     |          |  |
| 20                    | 16QAM      | 100     | 0         | 15.32                 | 15.35                    | 15.45                  |                     |          |  |
| 20                    | 16QAM      | 1       | 0         | 15.48                 | 15.48                    | 15.37                  |                     |          |  |
| 20                    | 16QAM      | 1       | 49        | 15.49                 | 15.33                    | 15.39                  | 16                  | 0        |  |
| 20                    | 16QAM      | 1       | 99        | 15.56                 | 15.27                    | 15.39                  |                     |          |  |
| 20                    | 16QAM      | 50      | 0         | 15.31                 | 15.31                    | 15.40                  |                     |          |  |
| 20                    | 16QAM      | 50      | 24        | 15.35                 | 15.33                    | 15.46                  | 16                  | 0        |  |
| 20                    | 16QAM      | 50      | 50        | 15.34                 | 15.34                    | 15.57                  |                     |          |  |
| 20                    | 16QAM      | 100     | 0         | 15.35                 | 15.37                    | 15.45                  |                     |          |  |
| Channel               |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15                    | QPSK       | 1       | 0         | 15.44                 | 15.38                    | 15.52                  |                     |          |  |
| 15                    | QPSK       | 1       | 37        | 15.44                 | 15.34                    | 15.60                  | 16                  | 0        |  |
| 15                    | QPSK       | 1       | 74        | 15.25                 | 15.31                    | 15.53                  |                     |          |  |
| 15                    | QPSK       | 36      | 0         | 15.26                 | 15.24                    | 15.35                  |                     |          |  |
| 15                    | QPSK       | 36      | 20        | 15.25                 | 15.24                    | 15.48                  | 16                  | 0        |  |
| 15                    | QPSK       | 36      | 39        | 15.25                 | 15.25                    | 15.46                  |                     |          |  |
| 15                    | QPSK       | 75      | 0         | 15.23                 | 15.21                    | 15.37                  |                     |          |  |
| 15                    | 16QAM      | 1       | 0         | 15.24                 | 15.23                    | 15.38                  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 15.22                 | 15.21                    | 15.39                  | 16                  | 0        |  |
| 15                    | 16QAM      | 1       | 74        | 15.36                 | 15.29                    | 15.26                  |                     |          |  |
| 15                    | 16QAM      | 36      | 0         | 15.33                 | 15.34                    | 15.48                  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 15.40                 | 15.36                    | 15.60                  | 16                  | 0        |  |
| 15                    | 16QAM      | 36      | 39        | 15.37                 | 15.37                    | 15.57                  |                     |          |  |
| 15                    | 16QAM      | 75      | 0         | 15.36                 | 15.33                    | 15.47                  |                     |          |  |
| 15                    | 16QAM      | 1       | 0         | 15.31                 | 15.29                    | 15.32                  |                     |          |  |
| 15                    | 16QAM      | 1       | 37        | 15.29                 | 15.28                    | 15.48                  | 16                  | 0        |  |
| 15                    | 16QAM      | 1       | 74        | 15.36                 | 15.38                    | 15.59                  |                     |          |  |
| 15                    | 16QAM      | 36      | 0         | 15.09                 | 15.12                    | 15.26                  |                     |          |  |
| 15                    | 16QAM      | 36      | 20        | 15.18                 | 15.14                    | 15.38                  | 16                  | 0        |  |
| 15                    | 16QAM      | 36      | 39        | 15.15                 | 15.15                    | 15.36                  |                     |          |  |
| 15                    | 16QAM      | 75      | 0         | 15.14                 | 15.11                    | 15.25                  |                     |          |  |
| Channel               |            |         |           | 20900                 | 21100                    | 21400                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10                    | QPSK       | 1       | 0         | 15.36                 | 15.38                    | 15.55                  |                     |          |  |
| 10                    | QPSK       | 1       | 25        | 15.35                 | 15.38                    | 15.59                  | 16                  | 0        |  |
| 10                    | QPSK       | 1       | 49        | 15.23                 | 15.22                    | 15.44                  |                     |          |  |
| 10                    | QPSK       | 25      | 0         | 15.17                 | 15.20                    | 15.40                  |                     |          |  |
| 10                    | QPSK       | 25      | 12        | 15.19                 | 15.21                    | 15.46                  | 16                  | 0        |  |
| 10                    | QPSK       | 25      | 25        | 15.21                 | 15.20                    | 15.43                  |                     |          |  |
| 10                    | QPSK       | 50      | 0         | 15.22                 | 15.23                    | 15.41                  |                     |          |  |
| 10                    | 16QAM      | 1       | 0         | 15.20                 | 15.18                    | 15.42                  | 16                  | 0        |  |
| 10                    | 16QAM      | 1       | 25        | 15.20                 | 15.24                    | 15.42                  |                     |          |  |
| 10                    | 16QAM      | 1       | 49        | 15.24                 | 15.27                    | 15.44                  |                     |          |  |
| 10                    | 16QAM      | 25      | 0         | 15.32                 | 15.30                    | 15.53                  | 16                  | 0        |  |
| 10                    | 16QAM      | 25      | 12        | 15.35                 | 15.33                    | 15.54                  |                     |          |  |
| 10                    | 16QAM      | 25      | 25        | 15.33                 | 15.32                    | 15.56                  |                     |          |  |
| 10                    | 16QAM      | 50      | 0         | 15.31                 | 15.33                    | 15.55                  |                     |          |  |
| 10                    | 16QAM      | 1       | 0         | 15.25                 | 15.26                    | 15.42                  |                     |          |  |
| 10                    | 16QAM      | 1       | 25        | 15.24                 | 15.24                    | 15.46                  | 16                  | 0        |  |
| 10                    | 16QAM      | 1       | 49        | 15.32                 | 15.29                    | 15.55                  |                     |          |  |
| 10                    | 16QAM      | 25      | 0         | 15.09                 | 15.10                    | 15.32                  |                     |          |  |
| 10                    | 16QAM      | 25      | 12        | 15.14                 | 15.10                    | 15.34                  | 16                  | 0        |  |
| 10                    | 16QAM      | 25      | 25        | 15.11                 | 15.12                    | 15.35                  |                     |          |  |
| 10                    | 16QAM      | 50      | 0         | 15.09                 | 15.11                    | 15.32                  |                     |          |  |
| Channel               |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5                     | QPSK       | 1       | 0         | 15.35                 | 15.34                    | 15.54                  |                     |          |  |
| 5                     | QPSK       | 1       | 12        | 15.34                 | 15.37                    | 15.58                  | 16                  | 0        |  |
| 5                     | QPSK       | 1       | 24        | 15.19                 | 15.20                    | 15.41                  |                     |          |  |
| 5                     | QPSK       | 12      | 0         | 15.22                 | 15.19                    | 15.44                  |                     |          |  |
| 5                     | QPSK       | 12      | 7         | 15.26                 | 15.22                    | 15.46                  | 16                  | 0        |  |
| 5                     | QPSK       | 12      | 13        | 15.23                 | 15.22                    | 15.44                  |                     |          |  |
| 5                     | QPSK       | 25      | 0         | 15.19                 | 15.18                    | 15.42                  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 15.17                 | 15.16                    | 15.43                  |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 15.18                 | 15.23                    | 15.40                  | 16                  | 0        |  |
| 5                     | 16QAM      | 1       | 24        | 15.15                 | 15.17                    | 15.46                  |                     |          |  |
| 5                     | 16QAM      | 12      | 0         | 15.33                 | 15.30                    | 15.54                  |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 15.37                 | 15.37                    | 15.60                  | 16                  | 0        |  |
| 5                     | 16QAM      | 12      | 13        | 15.35                 | 15.35                    | 15.58                  |                     |          |  |
| 5                     | 16QAM      | 25      | 0         | 15.30                 | 15.30                    | 15.52                  |                     |          |  |
| 5                     | 16QAM      | 1       | 0         | 15.20                 | 15.25                    | 15.48                  |                     |          |  |
| 5                     | 16QAM      | 1       | 12        | 15.20                 | 15.24                    | 15.50                  | 16                  | 0        |  |
| 5                     | 16QAM      | 1       | 24        | 15.32                 | 15.24                    | 15.50                  |                     |          |  |
| 5                     | 16QAM      | 12      | 0         | 15.10                 | 15.09                    | 15.33                  |                     |          |  |
| 5                     | 16QAM      | 12      | 7         | 15.13                 | 15.12                    | 15.37                  | 16                  | 0        |  |
| 5                     | 16QAM      | 12      | 13        | 15.13                 | 15.10                    | 15.34                  |                     |          |  |
| 5                     | 16QAM      | 25      | 0         | 15.09                 | 15.07                    | 15.31                  |                     |          |  |

| Band 66         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 12.20                 | 12.23                    | 12.41                  |                     |          |  |
| 20              | QPSK       | 1       | 49        | 12.23                 | 12.24                    | 12.34                  | 13                  | 0        |  |
| 20              | QPSK       | 1       | 99        | 12.18                 | 12.26                    | 12.30                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 12.25                 | 12.35                    | 12.30                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 12.07                 | 12.03                    | 12.01                  | 13                  | 0        |  |
| 20              | QPSK       | 50      | 50        | 12.02                 | 12.03                    | 12.10                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 12.08                 | 12.23                    | 12.11                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 12.37                 | 12.34                    | 12.34                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 12.23                 | 12.33                    | 12.41                  | 13                  | 0        |  |
| 20              | 16QAM      | 1       | 99        | 12.20                 | 12.43                    | 12.43                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 12.06                 | 12.11                    | 12.11                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 12.15                 | 12.09                    | 12.12                  | 13                  | 0        |  |
| 20              | 16QAM      | 50      | 50        | 12.09                 | 12.04                    | 12.20                  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 12.14                 | 12.06                    | 12.08                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 12.18                 | 12.16                    | 12.32                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 12.22                 | 12.12                    | 12.40                  | 13                  | 0        |  |
| 20              | 16QAM      | 1       | 99        | 12.16                 | 12.30                    | 12.31                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 12.06                 | 12.11                    | 12.12                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 12.09                 | 12.10                    | 12.14                  | 13                  | 0        |  |
| 20              | 16QAM      | 50      | 50        | 12.09                 | 12.05                    | 12.16                  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 12.08                 | 12.07                    | 12.04                  |                     |          |  |
| Channel         |            |         |           | 132047                | 132322                   | 132597                 |                     |          |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 12.22                 | 12.34                    | 12.22                  |                     |          |  |
| 15              | QPSK       | 1       | 37        | 12.22                 | 12.19                    | 12.34                  | 13                  | 0        |  |
| 15              | QPSK       | 1       | 74        | 12.25                 | 12.16                    | 12.31                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 12.27                 | 12.31                    | 12.24                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 12.00                 | 12.02                    | 12.09                  | 13                  | 0        |  |
| 15              | QPSK       | 36      | 39        | 12.06                 | 11.93                    | 12.06                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 12.02                 | 12.00                    | 11.96                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 12.39                 | 12.41                    | 12.34                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 12.29                 | 12.26                    | 12.42                  | 13                  | 0        |  |
| 15              | 16QAM      | 1       | 74        | 12.27                 | 12.19                    | 12.44                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 12.06                 | 12.05                    | 12.11                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 12.11                 | 12.36                    | 12.23                  | 13                  | 0        |  |
| 15              | 16QAM      | 36      | 39        | 12.09                 | 12.01                    | 12.17                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 12.14                 | 12.05                    | 12.10                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 12.25                 | 12.32                    | 12.29                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 12.25                 | 12.30                    | 12.41                  | 13                  | 0        |  |
| 15              | 16QAM      | 1       | 74        | 12.27                 | 12.20                    | 12.25                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 12.11                 | 12.11                    | 12.09                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 12.14                 | 12.14                    | 12.27                  | 13                  | 0        |  |
| 15              | 16QAM      | 36      | 39        | 12.21                 | 12.07                    | 12.21                  |                     |          |  |
| 15              | 16QAM      | 75      | 0         |                       |                          |                        |                     |          |  |



### Band 38(only on channel required)

| 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         |            |         |           | 37850                 | 38000                    | 38150                  |                     |          |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |          |
| 20              | QPSK       | 1       | 0         | 19.23                 | 19.23                    | 19.22                  | 19.5                | 0        |
| 20              | QPSK       | 1       | 49        | 19.27                 | 19.25                    | 19.24                  |                     |          |
| 20              | QPSK       | 1       | 99        | 19.25                 | 19.29                    | 19.20                  |                     |          |
| 20              | QPSK       | 50      | 0         | 19.01                 | 18.98                    | 19.02                  | 19.5                | 0        |
| 20              | QPSK       | 50      | 24        | 19.03                 | 19.02                    | 19.00                  |                     |          |
| 20              | QPSK       | 50      | 50        | 19.04                 | 19.01                    | 19.04                  |                     |          |
| 20              | QPSK       | 100     | 0         | 19.03                 | 19.02                    | 19.02                  | 19.5                | 0        |
| 20              | 16QAM      | 1       | 0         | 19.14                 | 19.11                    | 19.14                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 19.16                 | 19.12                    | 19.16                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 19.22                 | 19.17                    | 19.24                  | 19.5                | 0        |
| 20              | 16QAM      | 50      | 0         | 19.14                 | 19.07                    | 19.12                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 19.13                 | 19.13                    | 19.12                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.17                 | 19.12                    | 19.17                  | 19.5                | 0        |
| 20              | 16QAM      | 100     | 0         | 19.14                 | 19.11                    | 19.10                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 18.88                 | 18.81                    | 18.88                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 18.88                 | 18.84                    | 18.88                  | 19.5                | 0        |
| 20              | 64QAM      | 1       | 99        | 18.94                 | 18.91                    | 18.91                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 19.07                 | 19.03                    | 19.06                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 19.06                 | 19.09                    | 19.07                  | 19.5                | 0        |
| 20              | 64QAM      | 50      | 50        | 19.10                 | 19.05                    | 19.09                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 19.18                 | 19.15                    | 19.18                  |                     |          |
| Channel         |            |         |           | 37925                 | 38000                    | 38175                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 18.91                 | 18.92                    | 18.93                  | 19.5                | 0        |
| 15              | QPSK       | 1       | 37        | 18.94                 | 18.90                    | 18.90                  |                     |          |
| 15              | QPSK       | 1       | 74        | 19.01                 | 19.01                    | 19.02                  |                     |          |
| 15              | QPSK       | 36      | 0         | 18.93                 | 18.91                    | 18.98                  | 19.5                | 0        |
| 15              | QPSK       | 36      | 20        | 18.98                 | 18.98                    | 19.02                  |                     |          |
| 15              | QPSK       | 36      | 39        | 18.96                 | 18.97                    | 19.00                  |                     |          |
| 15              | QPSK       | 75      | 0         | 18.95                 | 18.97                    | 18.97                  | 19.5                | 0        |
| 15              | 16QAM      | 1       | 0         | 19.10                 | 19.10                    | 19.15                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 19.09                 | 19.07                    | 19.09                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 19.21                 | 19.23                    | 19.20                  | 19.5                | 0        |
| 15              | 16QAM      | 36      | 0         | 19.04                 | 19.00                    | 19.00                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 19.09                 | 19.02                    | 19.04                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 19.10                 | 19.05                    | 19.08                  | 19.5                | 0        |
| 15              | 16QAM      | 75      | 0         | 19.09                 | 19.06                    | 19.06                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 18.84                 | 18.83                    | 18.82                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.81                 | 18.77                    | 18.78                  | 19.5                | 0        |
| 15              | 64QAM      | 1       | 74        | 18.93                 | 18.89                    | 18.93                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 19.05                 | 19.04                    | 19.10                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 19.11                 | 19.11                    | 19.07                  | 19.5                | 0        |
| 15              | 64QAM      | 36      | 39        | 19.11                 | 19.12                    | 19.14                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 19.10                 | 19.08                    | 19.09                  |                     |          |
| Channel         |            |         |           | 37900                 | 38000                    | 38200                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |          |
| 10              | QPSK       | 1       | 0         | 18.89                 | 18.85                    | 18.90                  | 19.5                | 0        |
| 10              | QPSK       | 1       | 25        | 18.89                 | 18.87                    | 18.91                  |                     |          |
| 10              | QPSK       | 1       | 49        | 18.96                 | 18.96                    | 18.98                  |                     |          |
| 10              | QPSK       | 25      | 0         | 18.88                 | 18.87                    | 18.89                  | 19.5                | 0        |
| 10              | QPSK       | 25      | 12        | 18.94                 | 18.92                    | 18.96                  |                     |          |
| 10              | QPSK       | 25      | 25        | 18.92                 | 18.93                    | 18.94                  |                     |          |
| 10              | QPSK       | 50      | 0         | 18.96                 | 18.96                    | 18.97                  | 19.5                | 0        |
| 10              | 16QAM      | 1       | 0         | 19.05                 | 19.05                    | 19.05                  |                     |          |
| 10              | 16QAM      | 1       | 25        | 19.05                 | 19.05                    | 19.06                  |                     |          |
| 10              | 16QAM      | 1       | 49        | 19.11                 | 19.05                    | 19.15                  | 19.5                | 0        |
| 10              | 16QAM      | 25      | 0         | 19.04                 | 19.03                    | 19.05                  |                     |          |
| 10              | 16QAM      | 25      | 12        | 19.06                 | 19.05                    | 19.08                  |                     |          |
| 10              | 16QAM      | 25      | 25        | 19.08                 | 19.08                    | 19.07                  | 19.5                | 0        |
| 10              | 16QAM      | 50      | 0         | 19.07                 | 19.05                    | 19.08                  |                     |          |
| 10              | 64QAM      | 1       | 0         | 18.79                 | 18.78                    | 18.81                  |                     |          |
| 10              | 64QAM      | 1       | 25        | 18.79                 | 18.74                    | 18.79                  | 19.5                | 0        |
| 10              | 64QAM      | 1       | 49        | 18.82                 | 18.83                    | 18.88                  |                     |          |
| 10              | 64QAM      | 25      | 0         | 18.98                 | 18.98                    | 19.00                  |                     |          |
| 10              | 64QAM      | 25      | 12        | 19.03                 | 19.03                    | 19.04                  | 19.5                | 0        |
| 10              | 64QAM      | 25      | 25        | 19.01                 | 19.01                    | 19.05                  |                     |          |
| 10              | 64QAM      | 50      | 0         | 19.00                 | 18.96                    | 18.99                  |                     |          |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |          |
| 5               | QPSK       | 1       | 0         | 18.90                 | 18.84                    | 18.91                  | 19.5                | 0        |
| 5               | QPSK       | 1       | 12        | 18.92                 | 18.93                    | 18.95                  |                     |          |
| 5               | QPSK       | 1       | 24        | 18.85                 | 18.84                    | 18.92                  |                     |          |
| 5               | QPSK       | 12      | 0         | 18.95                 | 18.90                    | 18.95                  | 19.5                | 0        |
| 5               | QPSK       | 12      | 7         | 18.96                 | 18.93                    | 19.00                  |                     |          |
| 5               | QPSK       | 12      | 13        | 18.96                 | 18.92                    | 18.99                  |                     |          |
| 5               | QPSK       | 25      | 0         | 18.94                 | 18.91                    | 18.96                  | 19.5                | 0        |
| 5               | 16QAM      | 1       | 0         | 19.04                 | 19.04                    | 19.07                  |                     |          |
| 5               | 16QAM      | 1       | 12        | 19.08                 | 19.07                    | 19.09                  |                     |          |
| 5               | 16QAM      | 1       | 24        | 19.11                 | 19.08                    | 19.13                  | 19.5                | 0        |
| 5               | 16QAM      | 12      | 0         | 19.00                 | 18.96                    | 19.03                  |                     |          |
| 5               | 16QAM      | 12      | 7         | 19.04                 | 19.04                    | 19.05                  |                     |          |
| 5               | 16QAM      | 12      | 13        | 19.03                 | 19.03                    | 19.05                  | 19.5                | 0        |
| 5               | 16QAM      | 25      | 0         | 19.07                 | 19.06                    | 19.12                  |                     |          |
| 5               | 64QAM      | 1       | 0         | 18.81                 | 18.79                    | 18.85                  |                     |          |
| 5               | 64QAM      | 1       | 12        | 18.83                 | 18.75                    | 18.82                  | 19.5                | 0        |
| 5               | 64QAM      | 1       | 24        | 18.85                 | 18.78                    | 18.87                  |                     |          |
| 5               | 64QAM      | 12      | 0         | 18.99                 | 18.97                    | 19.01                  |                     |          |
| 5               | 64QAM      | 12      | 7         | 19.05                 | 19.00                    | 19.06                  | 19.5                | 0        |
| 5               | 64QAM      | 12      | 13        | 19.04                 | 19.00                    | 19.04                  |                     |          |
| 5               | 64QAM      | 25      | 0         | 18.99                 | 19.00                    | 19.04                  |                     |          |

### Band 41 (2.6G Band)

| BW [MHz]        | 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         |            |         |           | 40140                 | 40390                        | 40640                    | 40890                         | 41140                  |                     |          |
| Frequency (MHz) |            |         |           | 2545                  | 2570                         | 2595                     | 2620                          | 2645                   |                     |          |
| 20              | QPSK       | 1       | 0         | 19.16                 | 19.11                        | 19.15                    | 19.32                         | 19.23                  | 19.5                | 0        |
| 20              | QPSK       | 1       | 49        | 19.00                 | 19.00                        | 19.12                    | 19.00                         | 19.12                  |                     |          |
| 20              | QPSK       | 1       | 99        | 19.03                 | 18.92                        | 19.10                    | 18.96                         | 19.12                  |                     |          |
| 20              | QPSK       | 50      | 0         | 19.11                 | 19.11                        | 19.14                    | 19.23                         | 19.22                  | 19.5                | 0        |
| 20              | QPSK       | 50      | 24        | 19.08                 | 19.08                        | 19.14                    | 19.10                         | 19.19                  |                     |          |
| 20              | QPSK       | 50      | 50        | 19.11                 | 19.00                        | 19.08                    | 19.03                         | 19.18                  |                     |          |
| 20              | QPSK       | 100     | 0         | 19.16                 | 19.05                        | 19.09                    | 19.20                         | 19.19                  | 19.5                | 0        |
| 20              | 16QAM      | 1       | 0         | 19.25                 | 19.30                        | 19.31                    | 19.25                         | 19.15                  |                     |          |
| 20              | 16QAM      | 1       | 49        | 19.20                 | 19.16                        | 19.21                    | 19.18                         | 19.30                  |                     |          |
| 20              | 16QAM      | 1       | 99        | 19.22                 | 19.07                        | 19.23                    | 19.12                         | 19.28                  | 19.5                | 0        |
| 20              | 16QAM      | 50      | 0         | 19.26                 | 19.22                        | 19.14                    | 19.22                         | 19.31                  |                     |          |
| 20              | 16QAM      | 50      | 24        | 19.25                 | 19.17                        | 19.09                    | 19.17                         | 19.27                  |                     |          |
| 20              | 16QAM      | 50      | 50        | 19.30                 | 19.11                        | 19.12                    | 19.11                         | 19.27                  | 19.5                | 0        |
| 20              | 16QAM      | 100     | 0         | 19.30                 | 19.16                        | 19.15                    | 19.13                         | 19.26                  |                     |          |
| 20              | 64QAM      | 1       | 0         | 19.05                 | 19.07                        | 18.93                    | 19.01                         | 19.10                  |                     |          |
| 20              | 64QAM      | 1       | 49        | 18.92                 | 18.85                        | 18.84                    | 18.87                         | 18.97                  | 19.5                | 0        |
| 20              | 64QAM      | 1       | 99        | 18.95                 | 18.79                        | 18.64                    | 18.80                         | 18.96                  |                     |          |
| 20              | 64QAM      | 50      | 0         | 18.71                 | 18.68                        | 19.01                    | 18.63                         | 18.77                  |                     |          |
| 20              | 64QAM      | 50      | 24        | 18.69                 | 18.62                        | 18.92                    | 18.63                         | 18.75                  | 19.5                | 0        |
| 20              | 64QAM      | 50      | 50        | 18.73                 | 18.57                        | 18.87                    | 18.55                         | 18.70                  |                     |          |
| 20              | 64QAM      | 100     | 0         | 18.85                 | 18.71                        | 18.99                    | 18.68                         | 18.80                  |                     |          |
| Channel         |            |         |           | 40115                 | 40378                        | 40640                    | 40903                         | 41165                  | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2542.5                | 2568.8                       | 2595                     | 2621.3                        | 2647.5                 |                     |          |
| 15              | QPSK       | 1       | 0         | 18.99                 | 19.08                        | 19.10                    | 19.08                         | 19.14                  | 19.5                | 0        |
| 15              | QPSK       | 1       | 37        | 18.94                 | 18.98                        | 18.98                    | 19.09                         | 19.12                  |                     |          |
| 15              | QPSK       | 1       | 74        | 18.94                 | 18.94                        | 19.02                    | 19.09                         | 19.10                  |                     |          |
| 15              | QPSK       | 36      | 0         | 18.98                 | 19.01                        | 19.02                    | 19.09                         | 19.14                  | 19.5                | 0        |
| 15              | QPSK       | 36      | 20        | 18.91                 | 19.00                        | 19.03                    | 19.12                         | 19.14                  |                     |          |
| 15              | QPSK       | 36      | 39        | 18.90                 | 18.92                        | 18.94                    | 19.08                         | 19.08                  |                     |          |
| 15              | QPSK       | 75      | 0         | 18.90                 | 18.97                        | 19.03                    | 19.14                         | 19.09                  | 19.5                | 0        |
| 15              | 16QAM      | 1       | 0         | 19.23                 | 19.25                        | 19.27                    | 19.28                         | 19.31                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 19.19                 | 19.13                        | 19.13                    | 19.25                         | 19.21                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 19.16                 | 19.09                        | 19.16                    | 19.20                         | 19.23                  | 19.5                | 0        |
| 15              | 16QAM      | 36      | 0         | 19.11                 | 19.06                        | 19.11                    | 19.19                         | 19.14                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 19.10                 | 19.04                        | 19.10                    | 19.23                         | 19.09                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 19.07                 | 19.00                        | 19.04                    | 19.16                         | 19.12                  | 19.5                | 0        |
| 15              | 16QAM      | 75      | 0         | 19.14                 | 19.09                        | 19.10                    | 19.22                         | 19.15                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 18.98                 | 18.92                        | 18.78                    | 18.60                         | 18.93                  |                     |          |
| 15              | 64QAM      | 1       | 37        | 18.86                 | 18.83                        | 18.70                    | 18.73                         | 18.84                  | 19.5                | 0        |
| 15              | 64QAM      | 1       | 74        | 18.87                 | 18.78                        | 18.69                    | 18.67                         | 18.64                  |                     |          |
| 15              | 64QAM      | 36      | 0         | 18.92                 | 18.81                        | 18.80                    | 18.58                         | 19.01                  |                     |          |
| 15              | 64QAM      | 36      | 20        | 18.87                 | 18.82                        | 18.80                    | 18.64                         | 18.92                  | 19.5                | 0        |
| 15              | 64QAM      | 36      | 39        | 18.99                 | 18.75                        | 18.78                    | 18.81                         | 18.87                  |                     |          |
| 15              | 64QAM      | 75      | 0         | 18.85                 | 18.83                        | 18.82                    | 18.93                         | 18.99                  |                     |          |
| Channel         |            |         |           |                       |                              |                          |                               |                        |                     |          |

### Reduced Power Mode for Handheld on

| 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   |                           | 1537     | 1638   | 1738   |                           |       |
| Frequency (MHz) | 1852.4             | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           |       |
| 3GPP Rel 99     | AMR 12.2Kbps       | 18.23 | 18.27  | 18.15                     | 20.00    | 18.50  | 18.51  | 18.38                     | 19.00 |
| 3GPP Rel 99     | RM-C 12.2Kbps      | 18.24 | 18.28  | 18.16                     | 20.00    | 18.51  | 18.52  | 18.39                     | 19.00 |
| 3GPP Rel 6      | HSDPA Subtest-1    | 17.88 | 17.70  | 17.64                     | 19.00    | 17.71  | 17.70  | 17.73                     | 18.00 |
| 3GPP Rel 6      | HSDPA Subtest-2    | 17.85 | 17.72  | 17.66                     | 19.00    | 17.50  | 17.49  | 17.29                     | 18.00 |
| 3GPP Rel 6      | HSDPA Subtest-3    | 17.36 | 17.16  | 17.10                     | 18.50    | 17.02  | 17.19  | 17.02                     | 17.50 |
| 3GPP Rel 6      | HSDPA Subtest-4    | 17.40 | 17.15  | 17.09                     | 18.50    | 17.05  | 17.18  | 17.03                     | 17.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 17.77 | 17.70  | 17.64                     | 19.00    | 17.52  | 17.62  | 17.50                     | 18.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 17.76 | 17.68  | 17.62                     | 19.00    | 17.50  | 17.61  | 17.46                     | 18.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 16.91 | 16.60  | 17.04                     | 18.50    | 17.02  | 17.11  | 16.99                     | 17.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 16.90 | 16.65  | 17.09                     | 18.50    | 17.00  | 17.10  | 17.00                     | 17.50 |
| 3GPP Rel 6      | HSUPA Subtest-1    | 17.81 | 17.58  | 17.52                     | 19.00    | 17.39  | 17.66  | 17.64                     | 18.00 |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.82 | 15.63  | 15.57                     | 17.00    | 15.70  | 15.66  | 15.64                     | 16.00 |
| 3GPP Rel 6      | HSUPA Subtest-3    | 16.80 | 16.59  | 16.53                     | 18.00    | 16.40  | 16.65  | 16.63                     | 17.00 |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.84 | 15.61  | 15.55                     | 17.00    | 15.53  | 15.62  | 15.60                     | 16.00 |
| 3GPP Rel 6      | HSUPA Subtest-5    | 17.70 | 17.60  | 17.60                     | 19.00    | 17.30  | 17.60  | 17.50                     | 18.00 |



| Band 2 (1900MHz Band) |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| Part 24E              |            |         |           |                       |                          |                        |                     |          |  |  |
| 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               |            |         |           | 18700                 | 18800                    | 19100                  |                     |          |  |  |
| Frequency (MHz)       |            |         |           |                       |                          |                        |                     |          |  |  |
| 20                    | QPSK       | 1       | 0         | 18.98                 | 18.99                    | 18.97                  |                     |          |  |  |
| 20                    | QPSK       | 1       | 49        | 18.99                 | 19.00                    | 18.92                  | 20                  | 0        |  |  |
| 20                    | QPSK       | 1       | 99        | 18.98                 | 18.92                    | 18.79                  |                     |          |  |  |
| 20                    | QPSK       | 50      | 0         | 18.99                 | 19.05                    | 18.93                  |                     |          |  |  |
| 20                    | QPSK       | 50      | 24        | 19.00                 | 19.03                    | 18.94                  | 20                  | 0        |  |  |
| 20                    | QPSK       | 50      | 50        | 18.92                 | 18.95                    | 18.85                  |                     |          |  |  |
| 20                    | QPSK       | 100     | 0         | 18.93                 | 18.97                    | 18.91                  |                     |          |  |  |
| 20                    | 16QAM      | 1       | 0         | 18.92                 | 18.97                    | 18.92                  |                     |          |  |  |
| 20                    | 16QAM      | 1       | 49        | 18.93                 | 18.95                    | 18.93                  | 20                  | 0        |  |  |
| 20                    | 16QAM      | 1       | 99        | 18.97                 | 18.92                    | 18.76                  |                     |          |  |  |
| 20                    | 16QAM      | 50      | 0         | 18.99                 | 18.97                    | 18.91                  |                     |          |  |  |
| 20                    | 16QAM      | 50      | 24        | 18.99                 | 18.99                    | 18.89                  | 20                  | 0        |  |  |
| 20                    | 16QAM      | 50      | 50        | 18.92                 | 18.92                    | 18.81                  |                     |          |  |  |
| 20                    | 16QAM      | 100     | 0         | 18.92                 | 18.90                    | 18.85                  |                     |          |  |  |
| 20                    | 16QAM      | 1       | 0         | 18.99                 | 18.95                    | 18.90                  |                     |          |  |  |
| 20                    | 64QAM      | 1       | 49        | 18.94                 | 18.99                    | 18.88                  | 20                  | 0        |  |  |
| 20                    | 64QAM      | 1       | 99        | 18.93                 | 18.86                    | 18.71                  |                     |          |  |  |
| 20                    | 64QAM      | 50      | 0         | 18.75                 | 18.75                    | 18.70                  |                     |          |  |  |
| 20                    | 64QAM      | 50      | 24        | 18.77                 | 18.77                    | 18.71                  | 20                  | 0        |  |  |
| 20                    | 64QAM      | 50      | 50        | 18.80                 | 18.69                    | 18.60                  |                     |          |  |  |
| 20                    | 64QAM      | 100     | 0         | 18.88                 | 18.72                    | 18.64                  |                     |          |  |  |
| Channel               |            |         |           | 18675                 | 18900                    | 19125                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)       |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |  |  |
| 15                    | QPSK       | 1       | 0         | 18.85                 | 18.89                    | 18.84                  |                     |          |  |  |
| 15                    | QPSK       | 1       | 37        | 18.88                 | 18.87                    | 18.77                  | 20                  | 0        |  |  |
| 15                    | QPSK       | 1       | 74        | 18.78                 | 18.82                    | 18.66                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 0         | 18.92                 | 18.92                    | 18.83                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 20        | 18.95                 | 18.95                    | 18.84                  | 20                  | 0        |  |  |
| 15                    | QPSK       | 36      | 39        | 18.90                 | 18.88                    | 18.78                  |                     |          |  |  |
| 15                    | QPSK       | 75      | 0         | 18.88                 | 18.86                    | 18.80                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 0         | 18.94                 | 18.93                    | 18.90                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 37        | 18.93                 | 18.98                    | 18.86                  | 20                  | 0        |  |  |
| 15                    | 16QAM      | 1       | 74        | 18.85                 | 18.92                    | 18.76                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 0         | 18.89                 | 18.70                    | 18.60                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 20        | 18.72                 | 18.71                    | 18.58                  | 20                  | 0        |  |  |
| 15                    | 16QAM      | 36      | 39        | 18.66                 | 18.63                    | 18.52                  |                     |          |  |  |
| 15                    | 16QAM      | 75      | 0         | 18.66                 | 18.63                    | 18.54                  |                     |          |  |  |
| 15                    | 64QAM      | 1       | 0         | 18.84                 | 18.85                    | 18.74                  |                     |          |  |  |
| 15                    | 64QAM      | 1       | 37        | 18.81                 | 18.83                    | 18.75                  | 20                  | 0        |  |  |
| 15                    | 64QAM      | 1       | 74        | 18.77                 | 18.76                    | 18.65                  |                     |          |  |  |
| 15                    | 64QAM      | 36      | 0         | 18.67                 | 18.68                    | 18.59                  |                     |          |  |  |
| 15                    | 64QAM      | 36      | 20        | 18.70                 | 18.72                    | 18.58                  | 20                  | 0        |  |  |
| 15                    | 64QAM      | 36      | 39        | 18.64                 | 18.62                    | 18.52                  |                     |          |  |  |
| 15                    | 64QAM      | 75      | 0         | 18.65                 | 18.61                    | 18.50                  |                     |          |  |  |
| Channel               |            |         |           | 18650                 | 18900                    | 19150                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)       |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |  |  |
| 10                    | QPSK       | 1       | 0         | 19.00                 | 18.96                    | 18.80                  |                     |          |  |  |
| 10                    | QPSK       | 1       | 25        | 18.86                 | 18.85                    | 18.75                  | 20                  | 0        |  |  |
| 10                    | QPSK       | 1       | 49        | 18.87                 | 18.87                    | 18.69                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 0         | 18.92                 | 18.89                    | 18.78                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 12        | 18.94                 | 18.91                    | 18.78                  | 20                  | 0        |  |  |
| 10                    | QPSK       | 25      | 25        | 18.85                 | 18.84                    | 18.74                  |                     |          |  |  |
| 10                    | QPSK       | 50      | 0         | 18.90                 | 18.87                    | 18.78                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 19.03                 | 19.02                    | 18.91                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 25        | 18.97                 | 18.99                    | 18.88                  | 20                  | 0        |  |  |
| 10                    | 16QAM      | 1       | 49        | 18.96                 | 18.96                    | 18.76                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 18.68                 | 18.66                    | 18.54                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 12        | 18.68                 | 18.68                    | 18.56                  | 20                  | 0        |  |  |
| 10                    | 16QAM      | 25      | 25        | 18.61                 | 18.64                    | 18.51                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 18.66                 | 18.68                    | 18.54                  |                     |          |  |  |
| 10                    | 64QAM      | 1       | 0         | 18.95                 | 18.99                    | 18.75                  | 20                  | 0        |  |  |
| 10                    | 64QAM      | 1       | 25        | 18.90                 | 18.83                    | 18.73                  |                     |          |  |  |
| 10                    | 64QAM      | 1       | 49        | 18.83                 | 18.85                    | 18.63                  |                     |          |  |  |
| 10                    | 64QAM      | 25      | 0         | 18.68                 | 18.66                    | 18.56                  |                     |          |  |  |
| 10                    | 64QAM      | 25      | 12        | 18.64                 | 18.67                    | 18.55                  | 20                  | 0        |  |  |
| 10                    | 64QAM      | 25      | 25        | 18.65                 | 18.62                    | 18.50                  |                     |          |  |  |
| 10                    | 64QAM      | 50      | 0         | 18.65                 | 18.63                    | 18.53                  |                     |          |  |  |
| Channel               |            |         |           | 18625                 | 18900                    | 19175                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)       |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |  |  |
| 5                     | QPSK       | 1       | 0         | 18.87                 | 18.86                    | 18.76                  |                     |          |  |  |
| 5                     | QPSK       | 1       | 12        | 18.92                 | 18.85                    | 18.74                  | 20                  | 0        |  |  |
| 5                     | QPSK       | 1       | 24        | 18.83                 | 18.87                    | 18.69                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 0         | 18.93                 | 18.94                    | 18.78                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 7         | 18.91                 | 18.94                    | 18.79                  | 20                  | 0        |  |  |
| 5                     | QPSK       | 12      | 13        | 18.88                 | 18.86                    | 18.75                  |                     |          |  |  |
| 5                     | QPSK       | 25      | 0         | 18.87                 | 18.86                    | 18.76                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 0         | 18.96                 | 18.95                    | 18.81                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 12        | 18.99                 | 18.96                    | 18.85                  | 20                  | 0        |  |  |
| 5                     | 16QAM      | 1       | 24        | 18.92                 | 18.92                    | 18.77                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 18.70                 | 18.66                    | 18.55                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 7         | 18.71                 | 18.70                    | 18.58                  | 20                  | 0        |  |  |
| 5                     | 16QAM      | 12      | 13        | 18.68                 | 18.66                    | 18.53                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 18.61                 | 18.65                    | 18.50                  |                     |          |  |  |
| 5                     | 64QAM      | 1       | 0         | 18.85                 | 18.83                    | 18.66                  |                     |          |  |  |
| 5                     | 64QAM      | 1       | 12        | 18.87                 | 18.81                    | 18.71                  | 20                  | 0        |  |  |
| 5                     | 64QAM      | 1       | 24        | 18.78                 | 18.77                    | 18.61                  |                     |          |  |  |
| 5                     | 64QAM      | 12      | 0         | 18.67                 | 18.69                    | 18.52                  |                     |          |  |  |
| 5                     | 64QAM      | 12      | 7         | 18.67                 | 18.66                    | 18.57                  | 20                  | 0        |  |  |
| 5                     | 64QAM      | 12      | 13        | 18.65                 | 18.64                    | 18.50                  |                     |          |  |  |
| 5                     | 64QAM      | 25      | 0         | 18.59                 | 18.64                    | 18.69                  |                     |          |  |  |
| Channel               |            |         |           | 18615                 | 18900                    | 19185                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)       |            |         |           | 1851.5                | 1880                     | 1908.5                 |                     |          |  |  |
| 3                     | QPSK       | 1       | 0         | 18.87                 | 18.86                    | 18.71                  |                     |          |  |  |
| 3                     | QPSK       | 1       | 8         | 18.89                 | 18.86                    | 18.71                  | 20                  | 0        |  |  |
| 3                     | QPSK       | 1       | 14        | 18.82                 | 18.80                    | 18.71                  |                     |          |  |  |
| 3                     | QPSK       | 8       | 0         | 18.91                 | 18.90                    | 18.78                  |                     |          |  |  |
| 3                     | QPSK       | 8       | 4         | 18.93                 | 18.95                    | 18.80                  | 20                  | 0        |  |  |
| 3                     | QPSK       | 8       | 7         | 18.89                 | 18.89                    | 18.75                  |                     |          |  |  |
| 3                     | QPSK       | 15      | 0         | 18.87                 | 18.87                    | 18.74                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 0         | 18.96                 | 18.92                    | 18.83                  |                     |          |  |  |
| 3                     | 16QAM      | 1       | 8         | 18.97                 | 18.98                    | 18.78                  | 20                  | 0        |  |  |
| 3                     | 16QAM      | 1       | 14        | 18.92                 | 18.93                    | 18.72                  |                     |          |  |  |
| 3                     | 16QAM      | 8       | 0         | 18.75                 | 18.71                    | 18.54                  |                     |          |  |  |
| 3                     | 16QAM      | 8       | 4         | 18.78                 | 18.75                    | 18.59                  | 20                  | 0        |  |  |
| 3                     | 16QAM      | 8       | 7         | 18.73                 | 18.70                    | 18.53                  |                     |          |  |  |
| 3                     | 16QAM      | 15      | 0         | 18.67                 | 18.63                    | 18.53                  |                     |          |  |  |
| 3                     | 64QAM      | 1       | 0         | 18.83                 | 18.82                    | 18.65                  |                     |          |  |  |
| 3                     | 64QAM      | 1       | 8         | 18.84                 | 18.86                    | 18.67                  | 20                  | 0        |  |  |
| 3                     | 64QAM      | 1       | 14        | 18.79                 | 18.75                    | 18.63                  |                     |          |  |  |
| 3                     | 64QAM      | 8       | 0         | 18.66                 | 18.66                    | 18.51                  |                     |          |  |  |
| 3                     | 64QAM      | 8       | 4         | 18.71                 | 18.71                    | 18.54                  | 20                  | 0        |  |  |
| 3                     | 64QAM      | 8       | 7         | 18.69                 | 18.66                    | 18.50                  |                     |          |  |  |
| 3                     | 64QAM      | 15      | 0         | 18.62                 | 18.62                    | 18.50                  |                     |          |  |  |
| Channel               |            |         |           | 18600                 | 18900                    | 19165                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz)       |            |         |           | 1850.7                | 1880                     | 1909.3                 |                     |          |  |  |
| 1.4                   | QPSK       | 1       | 0         | 18.80                 | 18.81                    | 18.64                  |                     |          |  |  |
| 1.4                   | QPSK       | 1       | 3         | 18.88                 | 18.84                    | 18.72                  | 20                  | 0        |  |  |
| 1.4                   | QPSK       | 1       | 5         | 18.76                 | 18.74                    | 18.63                  |                     |          |  |  |
| 1.4                   | QPSK       | 3       | 0         | 18.83                 | 18.84                    | 18.69                  |                     |          |  |  |
| 1.4                   | QPSK       | 3       | 1         | 18.88                 | 18.86                    | 18.71                  | 20                  | 0        |  |  |
| 1.4                   | QPSK       | 3       | 3         | 18.82                 | 18.81                    | 18.67                  |                     |          |  |  |
| 1.4                   | QPSK       | 6       | 0         | 18.85                 | 18.82                    | 18.68                  | 20                  | 0        |  |  |
| 1.4                   | 16QAM      | 1       | 0         | 18.91                 | 18.80                    | 18.68                  |                     |          |  |  |
| 1.4                   | 16QAM      | 1       | 3         | 18.92                 | 18.95                    | 18.71                  | 20                  | 0        |  |  |
| 1.4                   | 16QAM      | 1       | 5         | 18.86                 | 18.83                    | 18.65                  |                     |          |  |  |
| 1.4                   | 16QAM      | 3       | 0         | 18.63                 | 18.63                    | 18.76                  | 20                  | 0        |  |  |
| 1.4                   | 16QAM      | 3       | 1         | 18.69                 | 18.66                    | 18.50                  |                     |          |  |  |
| 1.4                   | 16QAM      | 3       | 3         | 18.57                 | 18.58                    | 18.73                  |                     |          |  |  |
| 1.4                   | 16QAM      | 6       | 0         | 18.64                 | 18.64                    | 18.72                  | 20                  | 0        |  |  |
| 1.4                   | 64QAM      | 1       | 0         | 18.73                 | 18.73                    | 18.53                  |                     |          |  |  |
| 1.4                   | 64QAM      | 1       | 3         | 18.77                 | 18.77                    | 18.58                  |                     |          |  |  |
| 1.4                   | 64QAM      | 1       | 5         | 18.73                 | 18.71                    | 18.53                  | 20                  | 0        |  |  |
| 1.4                   | 64QAM      | 3       | 0         | 18.62                 | 18.64                    | 18.69                  |                     |          |  |  |
| 1.4                   | 64QAM      | 3       | 1         | 18.63                 | 18.71                    | 18.79                  |                     |          |  |  |
| 1.4                   | 64QAM      | 3       | 3         | 18.59                 | 18.62                    | 18.82                  |                     |          |  |  |
| 1.4                   | 64QAM      | 6       | 0         | 18.55                 | 18.55                    | 18.82                  | 20                  | 0        |  |  |

| Band 4 (AWS Band)                   |            |         |           |                       |                          |                        |                     |          |  |  |
|-------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| Part 27L (only on channel required) |            |         |           |                       |                          |                        |                     |          |  |  |
| 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                             |            |         |           | 20050                 | 20175                    | 20300                  |                     |          |  |  |
| Frequency (MHz)                     |            |         |           |                       |                          |                        |                     |          |  |  |
| 20                                  | QPSK       | 1       | 1         | 0                     | 18.30                    | 18.50                  | 18.28               |          |  |  |
| 20                                  | QPSK       | 1       | 49        | 18.30                 | 18.22                    | 18.28                  | 19.5                | 0        |  |  |
| 20                                  | QPSK       | 1       | 99        | 18.21                 | 18.33                    | 18.37                  |                     |          |  |  |
| 20                                  | QPSK       | 50      | 0         | 18.34                 | 18.39                    | 18.29                  |                     |          |  |  |
| 20                                  | QPSK       | 50      | 24        | 18.37                 | 18.26                    | 18.24                  | 19.5                | 0        |  |  |
| 20                                  | QPSK       | 50      | 50        | 18.31                 | 18.38                    | 18.32                  |                     |          |  |  |
| 20                                  | QPSK       | 100     | 0         | 18.36                 | 18.40                    | 18.20                  |                     |          |  |  |
| 20                                  | 16QAM      | 1       | 0         | 18.31                 | 18.37                    | 18.25                  |                     |          |  |  |
| 20                                  | 16QAM      | 1       | 49        | 18.29                 | 18.29                    | 18.33                  | 19.5                | 0        |  |  |
| 20                                  | 16QAM      | 1       | 99        | 18.19                 | 18.33                    | 18.34                  |                     |          |  |  |
| 20                                  | 16QAM      | 50      | 0         | 18.21                 | 18.21                    | 18.35                  |                     |          |  |  |
| 20                                  | 16QAM      | 50      | 24        | 18.25                 | 18.16                    | 18.31                  | 19.5                | 0        |  |  |
| 20                                  | 16QAM      | 50      | 50        | 18.28                 | 18.33                    | 18.23                  |                     |          |  |  |



| Band 7 (2600MHz Band) |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| Part 27               |            |         |           |                       |                          |                        |                     |          |  |  |
| BW [MHz]              | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel               |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |  |
| Frequency (MHz)       |            |         |           | 2210                  | 2535                     | 2590                   |                     |          |  |  |
| 20                    | QPSK       | 1       | 0         | 20.99                 | 21.24                    | 21.09                  |                     |          |  |  |
| 20                    | QPSK       | 1       | 49        | 20.85                 | 20.89                    | 21.06                  | 22.5                | 0        |  |  |
| 20                    | QPSK       | 1       | 99        | 20.87                 | 20.84                    | 20.95                  |                     |          |  |  |
| 20                    | QPSK       | 50      | 0         | 20.91                 | 21.00                    | 20.94                  |                     |          |  |  |
| 20                    | QPSK       | 50      | 24        | 20.93                 | 20.95                    | 20.99                  | 22.5                | 0        |  |  |
| 20                    | QPSK       | 50      | 50        | 20.98                 | 20.89                    | 20.97                  |                     |          |  |  |
| 20                    | QPSK       | 100     | 0         | 20.98                 | 20.99                    | 20.98                  |                     |          |  |  |
| 20                    | 16QAM      | 1       | 0         | 21.20                 | 20.97                    | 21.14                  |                     |          |  |  |
| 20                    | 16QAM      | 1       | 49        | 21.19                 | 21.22                    | 21.19                  | 22.5                | 0        |  |  |
| 20                    | 16QAM      | 1       | 99        | 21.16                 | 21.16                    | 21.09                  |                     |          |  |  |
| 20                    | 16QAM      | 50      | 0         | 20.50                 | 20.56                    | 20.60                  |                     |          |  |  |
| 20                    | 16QAM      | 50      | 24        | 20.64                 | 20.54                    | 20.69                  | 22                  | 0.5      |  |  |
| 20                    | 16QAM      | 50      | 50        | 20.56                 | 20.51                    | 20.61                  |                     |          |  |  |
| 20                    | 16QAM      | 100     | 0         | 20.57                 | 20.52                    | 20.55                  |                     |          |  |  |
| 20                    | 64QAM      | 1       | 0         | 20.56                 | 20.51                    | 20.61                  |                     |          |  |  |
| 20                    | 64QAM      | 1       | 49        | 20.57                 | 20.52                    | 20.55                  | 22                  | 0.5      |  |  |
| 20                    | 64QAM      | 1       | 99        | 20.64                 | 20.54                    | 20.69                  |                     |          |  |  |
| 20                    | 64QAM      | 50      | 0         | 19.55                 | 19.56                    | 19.46                  |                     |          |  |  |
| 20                    | 64QAM      | 50      | 24        | 19.59                 | 19.81                    | 19.95                  | 21                  | 1.5      |  |  |
| 20                    | 64QAM      | 50      | 50        | 19.54                 | 19.45                    | 19.53                  |                     |          |  |  |
| 20                    | 64QAM      | 100     | 0         | 19.59                 | 19.51                    | 19.64                  |                     |          |  |  |
| Channel               |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |  |
| Frequency (MHz)       |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |  |
| 15                    | QPSK       | 1       | 0         | 20.91                 | 20.92                    | 21.05                  |                     |          |  |  |
| 15                    | QPSK       | 1       | 37        | 20.88                 | 20.92                    | 20.99                  | 22.5                | 0        |  |  |
| 15                    | QPSK       | 1       | 74        | 20.87                 | 20.87                    | 20.98                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 0         | 20.95                 | 20.96                    | 21.06                  |                     |          |  |  |
| 15                    | QPSK       | 36      | 20        | 20.94                 | 20.96                    | 21.08                  | 22.5                | 0        |  |  |
| 15                    | QPSK       | 36      | 39        | 20.91                 | 20.91                    | 21.06                  |                     |          |  |  |
| 15                    | QPSK       | 75      | 0         | 20.93                 | 20.93                    | 21.06                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 0         | 21.23                 | 21.05                    | 21.02                  |                     |          |  |  |
| 15                    | 16QAM      | 1       | 37        | 21.21                 | 21.21                    | 21.02                  | 22.5                | 0        |  |  |
| 15                    | 16QAM      | 1       | 74        | 21.17                 | 21.17                    | 21.08                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 0         | 20.56                 | 20.57                    | 20.52                  |                     |          |  |  |
| 15                    | 16QAM      | 36      | 20        | 20.54                 | 20.54                    | 20.50                  | 22                  | 0.5      |  |  |
| 15                    | 16QAM      | 36      | 39        | 20.52                 | 20.53                    | 20.54                  |                     |          |  |  |
| 15                    | 16QAM      | 75      | 0         | 20.48                 | 20.55                    | 20.63                  |                     |          |  |  |
| 15                    | 64QAM      | 1       | 0         | 20.52                 | 20.53                    | 20.61                  |                     |          |  |  |
| 15                    | 64QAM      | 1       | 37        | 20.50                 | 20.55                    | 20.58                  | 22                  | 0.5      |  |  |
| 15                    | 64QAM      | 1       | 74        | 20.64                 | 20.52                    | 20.68                  |                     |          |  |  |
| 15                    | 64QAM      | 36      | 0         | 19.53                 | 19.51                    | 19.62                  |                     |          |  |  |
| 15                    | 64QAM      | 36      | 20        | 19.53                 | 19.53                    | 19.62                  | 21                  | 1.5      |  |  |
| 15                    | 64QAM      | 36      | 39        | 19.51                 | 19.51                    | 19.59                  |                     |          |  |  |
| 15                    | 64QAM      | 75      | 0         | 19.48                 | 19.54                    | 19.63                  |                     |          |  |  |
| Channel               |            |         |           | 20800                 | 21100                    | 21400                  |                     |          |  |  |
| Frequency (MHz)       |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |  |
| 10                    | QPSK       | 1       | 0         | 20.89                 | 20.93                    | 21.02                  |                     |          |  |  |
| 10                    | QPSK       | 1       | 25        | 20.90                 | 20.88                    | 21.00                  | 22.5                | 0        |  |  |
| 10                    | QPSK       | 1       | 49        | 20.86                 | 20.87                    | 20.98                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 0         | 20.91                 | 20.93                    | 21.05                  |                     |          |  |  |
| 10                    | QPSK       | 25      | 12        | 20.97                 | 20.95                    | 21.09                  | 22.5                | 0        |  |  |
| 10                    | QPSK       | 25      | 25        | 20.91                 | 20.93                    | 21.07                  |                     |          |  |  |
| 10                    | QPSK       | 50      | 0         | 20.91                 | 20.94                    | 21.05                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 0         | 21.19                 | 21.06                    | 21.00                  |                     |          |  |  |
| 10                    | 16QAM      | 1       | 25        | 21.23                 | 21.21                    | 21.08                  | 22.5                | 0        |  |  |
| 10                    | 16QAM      | 1       | 49        | 21.17                 | 21.17                    | 21.02                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 0         | 20.57                 | 20.55                    | 20.67                  |                     |          |  |  |
| 10                    | 16QAM      | 25      | 12        | 20.61                 | 20.60                    | 20.68                  | 22                  | 0.5      |  |  |
| 10                    | 16QAM      | 25      | 25        | 20.55                 | 20.57                    | 20.66                  |                     |          |  |  |
| 10                    | 16QAM      | 50      | 0         | 20.57                 | 20.50                    | 20.67                  |                     |          |  |  |
| 10                    | 64QAM      | 1       | 0         | 20.61                 | 20.60                    | 20.68                  |                     |          |  |  |
| 10                    | 64QAM      | 1       | 25        | 20.61                 | 20.60                    | 20.68                  | 22                  | 0.5      |  |  |
| 10                    | 64QAM      | 1       | 49        | 20.55                 | 20.57                    | 20.66                  |                     |          |  |  |
| 10                    | 64QAM      | 25      | 0         | 19.51                 | 19.50                    | 19.66                  |                     |          |  |  |
| 10                    | 64QAM      | 25      | 12        | 19.54                 | 19.57                    | 19.63                  | 21                  | 1.5      |  |  |
| 10                    | 64QAM      | 25      | 25        | 19.51                 | 19.53                    | 19.62                  |                     |          |  |  |
| 10                    | 64QAM      | 50      | 0         | 19.49                 | 19.53                    | 19.62                  |                     |          |  |  |
| Channel               |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |  |
| Frequency (MHz)       |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |  |
| 5                     | QPSK       | 1       | 0         | 20.88                 | 20.92                    | 20.99                  |                     |          |  |  |
| 5                     | QPSK       | 1       | 12        | 20.87                 | 20.87                    | 20.96                  | 22.5                | 0        |  |  |
| 5                     | QPSK       | 1       | 24        | 20.95                 | 20.96                    | 21.06                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 0         | 20.94                 | 20.96                    | 21.08                  |                     |          |  |  |
| 5                     | QPSK       | 12      | 7         | 20.91                 | 20.91                    | 21.06                  | 22.5                | 0        |  |  |
| 5                     | QPSK       | 12      | 13        | 20.93                 | 20.93                    | 21.06                  |                     |          |  |  |
| 5                     | QPSK       | 25      | 0         | 20.86                 | 20.87                    | 20.98                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 0         | 20.91                 | 20.93                    | 21.05                  |                     |          |  |  |
| 5                     | 16QAM      | 1       | 12        | 20.97                 | 20.95                    | 21.09                  | 22.5                | 0        |  |  |
| 5                     | 16QAM      | 1       | 24        | 20.91                 | 20.93                    | 21.07                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 0         | 20.57                 | 20.55                    | 20.68                  |                     |          |  |  |
| 5                     | 16QAM      | 12      | 7         | 20.67                 | 20.60                    | 20.68                  | 22                  | 0.5      |  |  |
| 5                     | 16QAM      | 12      | 13        | 20.57                 | 20.60                    | 20.68                  |                     |          |  |  |
| 5                     | 16QAM      | 25      | 0         | 20.67                 | 20.61                    | 20.67                  |                     |          |  |  |
| 5                     | 64QAM      | 1       | 0         | 20.52                 | 20.53                    | 20.61                  |                     |          |  |  |
| 5                     | 64QAM      | 1       | 12        | 20.50                 | 20.55                    | 20.58                  | 22                  | 0.5      |  |  |
| 5                     | 64QAM      | 1       | 24        | 20.64                 | 20.52                    | 20.68                  |                     |          |  |  |
| 5                     | 64QAM      | 12      | 0         | 19.57                 | 19.50                    | 19.61                  |                     |          |  |  |
| 5                     | 64QAM      | 12      | 7         | 19.58                 | 19.49                    | 19.53                  | 21                  | 1.5      |  |  |
| 5                     | 64QAM      | 12      | 13        | 19.68                 | 19.87                    | 19.55                  |                     |          |  |  |
| 5                     | 64QAM      | 25      | 0         | 19.61                 | 19.57                    | 19.62                  |                     |          |  |  |

| Band 66         |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel         |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |  |
| 20              | QPSK       | 1       | 0         | 18.48                 | 18.44                    | 18.38                  |                     |          |  |  |
| 20              | QPSK       | 1       | 49        | 18.45                 | 18.37                    | 18.33                  | 19.5                | 0        |  |  |
| 20              | QPSK       | 1       | 99        | 18.36                 | 18.28                    | 18.22                  |                     |          |  |  |
| 20              | QPSK       | 50      | 0         | 18.49                 | 18.53                    | 18.34                  |                     |          |  |  |
| 20              | QPSK       | 50      | 24        | 18.52                 | 18.41                    | 18.39                  | 19.5                | 0        |  |  |
| 20              | QPSK       | 50      | 50        | 18.46                 | 18.33                    | 18.27                  |                     |          |  |  |
| 20              | QPSK       | 100     | 0         | 18.39                 | 18.41                    | 18.35                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 0         | 18.46                 | 18.52                    | 18.40                  |                     |          |  |  |
| 20              | 16QAM      | 1       | 49        | 18.44                 | 18.44                    | 18.28                  | 19.5                | 0        |  |  |
| 20              | 16QAM      | 1       | 99        | 18.34                 | 18.28                    | 18.19                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 0         | 18.36                 | 18.36                    | 18.20                  |                     |          |  |  |
| 20              | 16QAM      | 50      | 24        | 18.40                 | 18.31                    | 18.26                  | 19.5                | 0        |  |  |
| 20              | 16QAM      | 50      | 50        | 18.33                 | 18.18                    | 18.11                  |                     |          |  |  |
| 20              | 16QAM      | 100     | 0         | 18.37                 | 18.29                    | 18.18                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 0         | 18.54                 | 18.59                    | 18.43                  |                     |          |  |  |
| 20              | 64QAM      | 1       | 49        | 18.53                 | 18.49                    | 18.36                  | 19.5                | 0        |  |  |
| 20              | 64QAM      | 1       | 99        | 18.45                 | 18.35                    | 18.28                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 0         | 18.32                 | 18.33                    | 18.18                  |                     |          |  |  |
| 20              | 64QAM      | 50      | 24        | 18.42                 | 18.26                    | 18.23                  | 19.5                | 0        |  |  |
| 20              | 64QAM      | 50      | 50        | 18.27                 | 18.21                    | 18.08                  |                     |          |  |  |
| 20              | 64QAM      | 100     | 0         | 18.36                 | 18.26                    | 18.20                  |                     |          |  |  |
| Channel         |            |         |           | 132047                | 132322                   | 132597                 |                     |          |  |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 18.45                 | 18.46                    | 18.40                  |                     |          |  |  |
| 15              | QPSK       | 1       | 37        | 18.39                 | 18.37                    | 18.28                  | 19.5                | 0        |  |  |
| 15              | QPSK       | 1       | 74        | 18.37                 | 18.37                    | 18.24                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 18.49                 | 18.44                    | 18.38                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 18.57                 | 18.42                    | 18.34                  | 19.5                | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 18.48                 | 18.33                    | 18.22                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 18.52                 | 18.41                    | 18.32                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 18.43                 | 18.50                    | 18.41                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 18.39                 | 18.37                    | 18.16                  | 19.5                | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 18.38                 | 18.30                    | 18.16                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 18.37                 | 18.35                    | 18.23                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 18.45                 | 18.33                    | 18.20                  | 19.5                | 0        |  |  |
| 15              | 16QAM      | 36      | 39        | 18.35                 | 18.22                    | 18.08                  |                     |          |  |  |
| 15              | 16QAM      | 75      | 0         | 18.42                 | 18.24                    | 18.16                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 18.55                 | 18.56                    | 18.50                  |                     |          |  |  |
| 15              | 64         |         |           |                       |                          |                        |                     |          |  |  |



### Full Power Mode 2CA DL

| CA List  | PCC     |       |        |         |      |        |       | SCC     |       |        |         | Power     |            |
|----------|---------|-------|--------|---------|------|--------|-------|---------|-------|--------|---------|-----------|------------|
|          | LTE     | BW    | UL     | UL      | Mod. | UL#    | UL    | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|          | Band    | (MHz) | Freq.  | Channel |      | RB     | RB    | Band    | (MHz) | Freq.  | Channel | Tx. Power | Tx. Power  |
|          |         |       | (MHz)  |         |      | Offset | (MHz) |         |       | (dBm)  |         |           |            |
| CA_4A-5A | Band 4  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 5  | 10M   | 881.5  | 2525    | 22.81     | 22.91      |
|          | Band 5  | 10M   | 881.5  | 20525   | QPSK | 1      | 0     | Band 4  | 20M   | 2132.5 | 2175    | 22.76     | 22.86      |
| CA_4A-7A | Band 4  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 7  | 20M   | 2555   | 3100    | 22.72     | 22.91      |
|          | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 4  | 20M   | 2132.5 | 2175    | 22.75     | 22.89      |
| CA_7B    | Band 7  | 15M   | 2535   | 21100   | QPSK | 1      | 0     | Band 7  | 5M    | 2664.3 | 3193    | 22.71     | 22.76      |
| CA_7A-7A | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 7  | 5M    | 2687.5 | 3425    | 22.73     | 22.88      |
| CA_38C   | Band 38 | 20M   | 2580   | 37850   | QPSK | 1      | 0     | Band 38 | 20M   | 2599.8 | 38048   | 22.59     | 22.70      |
|          | Band 38 | 20M   | 2585.1 | 37901   | QPSK | 1      | 0     | Band 38 | 20M   | 2604.9 | 38099   | 22.76     | 22.96      |
|          | Band 38 | 20M   | 2610   | 38150   | QPSK | 1      | 0     | Band 38 | 20M   | 2590.2 | 37952   | 22.71     | 22.89      |



### 3CA DL

<Inter-Band for Three Carrier Combination> (two bands)

| CA List       | PCC     |       |        |         |      |        |       | SCC1    |       |        |         | SCC2    |       |        |         | Power     |            |
|---------------|---------|-------|--------|---------|------|--------|-------|---------|-------|--------|---------|---------|-------|--------|---------|-----------|------------|
|               | LTE     | BW    | UL     | UL      | Mod. | UL#    | UL    | LTE     | BW    | DL     | DL      | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|               | Band    | (MHz) | Freq.  | Channel |      | RB     | RB    | Band    | (MHz) | Freq.  | Channel | Band    | (MHz) | Freq.  | Channel | Tx. Power | Tx. Power  |
|               |         |       | (MHz)  |         |      | Offset | (MHz) |         |       | (dBm)  |         |         |       | (dBm)  |         |           |            |
| CA_4A-7C      | Band 4  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 7  | 20M   | 2655   | 3100    | Band 7  | 20M   | 2674.8 | 3298    | 22.76     | 22.91      |
|               | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 7  | 20M   | 2674.8 | 3298    | Band 4  | 20M   | 2132.5 | 2175    | 22.72     | 22.88      |
| CA_7A-66A-66A | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 66 | 20M   | 2155   | 66886   | Band 66 | 5M    | 2197.5 | 67311   | 22.59     | 22.76      |
|               | Band 66 | 20M   | 1745   | 132322  | QPSK | 1      | 0     | Band 66 | 5M    | 2197.5 | 67311   | Band 7  | 20M   | 2674.8 | 3298    | 22.71     | 22.9       |

### Reduced Power Mode for Sensor on/Hotspot on 2CA DL

| CA List  | PCC     |       |                |         |      |        |    | SCC     |       |                |         | Power              |                    |
|----------|---------|-------|----------------|---------|------|--------|----|---------|-------|----------------|---------|--------------------|--------------------|
|          | LTE     | BW    | UL             | UL      | Mod. | UL#    | UL | LTE     | BW    | DL             | DL      | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
|          | Band    | (MHz) | Freq.<br>(MHz) | Channel |      | RB     | RB | Band    | (MHz) | Freq.<br>(MHz) | Channel |                    |                    |
|          |         |       |                |         |      | Offset |    |         |       |                |         |                    |                    |
| CA_4A-5A | Band 4  | 20M   | 1732.5         | 20175   | QPSK | 1      | 0  | Band 5  | 10M   | 881.5          | 2525    | 13.63              | 13.90              |
|          | Band 5  | 10M   | 836.5          | 20525   | QPSK | 1      | 0  | Band 4  | 20M   | 2132.5         | 2175    | 21.45              | 21.64              |
| CA_4A-7A | Band 4  | 20M   | 1732.5         | 20175   | QPSK | 1      | 0  | Band 7  | 20M   | 2655           | 3100    | 13.72              | 13.90              |
|          | Band 7  | 20M   | 2535           | 21100   | QPSK | 1      | 0  | Band 4  | 20M   | 2132.5         | 2175    | 15.51              | 15.61              |
| CA_7B    | Band 7  | 15M   | 2535           | 21100   | QPSK | 1      | 0  | Band 7  | 5M    | 2664.3         | 3193    | 15.23              | 15.38              |
| CA_7A-7A | Band 7  | 20M   | 2535           | 21100   | QPSK | 1      | 0  | Band 7  | 5M    | 2687.5         | 3425    | 15.43              | 15.61              |
| CA_38C   | Band 38 | 20M   | 2580           | 37850   | QPSK | 1      | 0  | Band 38 | 20M   | 2599.8         | 38048   | 19.06              | 19.23              |
|          | Band 38 | 20M   | 2585.1         | 37901   | QPSK | 1      | 0  | Band 38 | 20M   | 2604.9         | 38099   | 19.10              | 19.23              |
|          | Band 38 | 20M   | 2610           | 38150   | QPSK | 1      | 0  | Band 38 | 20M   | 2590.2         | 37952   | 19.03              | 19.22              |



### 3CA DL

**<Inter-Band for Three Carrier Combination> (two bands)**

| CA List       | PCC     |       |        |         |      |        | SCC1  |         |       |        | SCC2    |         |       |        | Power   |           |            |
|---------------|---------|-------|--------|---------|------|--------|-------|---------|-------|--------|---------|---------|-------|--------|---------|-----------|------------|
|               | LTE     | BW    | UL     | UL      | Mod. | UL#    | UL    | LTE     | BW    | DL     | DL      | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|               | Band    | (MHz) | Freq.  | Channel |      | RB     | RB    | Band    | (MHz) | Freq.  | Channel | Band    | (MHz) | Freq.  | Channel | Tx. Power | Tx. Power  |
|               |         |       | (MHz)  |         |      | Offset | (MHz) |         |       | (MHz)  |         |         |       | (MHz)  |         |           |            |
| CA_4A-7C      | Band 4  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 7  | 20M   | 2655   | 3100    | Band 7  | 20M   | 2674.8 | 3298    | 13.69     | 13.9       |
|               | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 7  | 20M   | 2674.8 | 3298    | Band 4  | 20M   | 2132.5 | 2175    | 15.41     | 15.61      |
| CA_7A-66A-66A | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 66 | 20M   | 2155   | 66886   | Band 66 | 5M    | 2197.5 | 67311   | 15.34     | 15.61      |
|               | Band 66 | 20M   | 1745   | 132322  | QPSK | 1      | 0     | Band 66 | 5M    | 2197.5 | 67311   | Band 7  | 20M   | 2674.8 | 3298    | 13.63     | 14         |



### Reduced Power Mode for Handheld on 2CA DL

| CA List  | PCC     |       |        |         |       |     |              | SCC     |       |        |         | Power              |                    |
|----------|---------|-------|--------|---------|-------|-----|--------------|---------|-------|--------|---------|--------------------|--------------------|
|          | LTE     | BW    | UL     | UL      | Mod.  | UL# | UL           | LTE     | BW    | DL     | DL      | Tx. Power<br>(dBm) | Tx. Power<br>(dBm) |
|          | Band    | (MHz) | Freq.  | Channel |       | RB  | RB<br>Offset | Band    | (MHz) | Freq.  | Channel |                    |                    |
|          |         |       | (MHz)  |         | (MHz) |     |              |         |       |        |         |                    |                    |
| CA_4A-5A | Band 4  | 20M   | 1732.5 | 20175   | QPSK  | 1   | 0            | Band 5  | 10M   | 881.5  | 2525    | 18.63              | 18.80              |
|          | Band 5  | 10M   | 836.5  | 20525   | QPSK  | 1   | 0            | Band 4  | 20M   | 2132.5 | 2175    | 22.56              | 22.86              |
| CA_4A-7A | Band 4  | 20M   | 1732.5 | 20175   | QPSK  | 1   | 0            | Band 7  | 20M   | 2655   | 3100    | 18.59              | 18.80              |
|          | Band 7  | 20M   | 2535   | 21100   | QPSK  | 1   | 0            | Band 4  | 20M   | 2132.5 | 2175    | 21.71              | 21.84              |
| CA_7B    | Band 7  | 15M   | 2535   | 21100   | QPSK  | 1   | 0            | Band 7  | 5M    | 2664.3 | 3193    | 21.35              | 21.52              |
| CA_7A-7A | Band 7  | 20M   | 2535   | 21100   | QPSK  | 1   | 0            | Band 7  | 5M    | 2687.5 | 3425    | 21.76              | 21.84              |
| CA_38C   | Band 38 | 20M   | 2580   | 37850   | QPSK  | 1   | 0            | Band 38 | 20M   | 2599.8 | 38048   | 22.59              | 22.70              |
|          | Band 38 | 20M   | 2585.1 | 37901   | QPSK  | 1   | 0            | Band 38 | 20M   | 2604.9 | 38099   | 22.76              | 22.96              |
|          | Band 38 | 20M   | 2610   | 38150   | QPSK  | 1   | 0            | Band 38 | 20M   | 2590.2 | 37952   | 22.71              | 22.89              |



### 3CA DL

**<Inter-Band for Three Carrier Combination> (two bands)**

| CA List       | PCC     |       |        |         |      |        | SCC1  |         |       |        | SCC2    |         |       |        | Power   |           |            |
|---------------|---------|-------|--------|---------|------|--------|-------|---------|-------|--------|---------|---------|-------|--------|---------|-----------|------------|
|               | LTE     | BW    | UL     | UL      | Mod. | UL#    | UL    | LTE     | BW    | DL     | DL      | LTE     | BW    | DL     | DL      | With CA   | Without CA |
|               | Band    | (MHz) | Freq.  | Channel |      | RB     | RB    | Band    | (MHz) | Freq.  | Channel | Band    | (MHz) | Freq.  | Channel | Tx. Power | Tx. Power  |
|               |         |       | (MHz)  |         |      | Offset | (MHz) |         |       | (MHz)  |         |         |       | (dBm)  |         | (dBm)     |            |
| CA_4A-7C      | Band 4  | 20M   | 1732.5 | 20175   | QPSK | 1      | 0     | Band 7  | 20M   | 2655   | 3100    | Band 7  | 20M   | 2674.8 | 3298    | 18.62     | 18.80      |
|               | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 7  | 20M   | 2674.8 | 3298    | Band 4  | 20M   | 2132.5 | 2175    | 21.58     | 21.84      |
| CA_7A-66A-66A | Band 7  | 20M   | 2535   | 21100   | QPSK | 1      | 0     | Band 66 | 20M   | 2155   | 66886   | Band 66 | 5M    | 2197.5 | 67311   | 21.62     | 21.84      |
|               | Band 66 | 20M   | 1745   | 132322  | QPSK | 1      | 0     | Band 66 | 5M    | 2197.5 | 67311   | Band 7  | 20M   | 2674.8 | 3298    | 18.39     | 18.6       |



| 2.4GHz WLAN       |               | Full            |                     |               |              |       |
|-------------------|---------------|-----------------|---------------------|---------------|--------------|-------|
| Mode              | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 2.4GHz WLAN       | 802.11b 6Mbps | 1               | 2412                | 18.13         | 20.00        | 100   |
|                   |               | 6               | 2437                | 18.43         | 20.00        |       |
|                   |               | 11              | 2462                | 18.43         | 20.00        |       |
| 802.11g 6Mbps     | 1             | 2412            | 18.24               | 19.50         | 98.58        |       |
|                   |               | 6               | 2437                | 18.49         |              | 20.00 |
|                   |               | 11              | 2462                | 18.01         |              | 17.50 |
| 802.11n-HT20 MCS0 | 1             | 2412            | 17.91               | 19.00         | 98.52        |       |
|                   |               | 6               | 2437                | 17.50         |              | 19.00 |
|                   |               | 11              | 2462                | 18.22         |              | 18.00 |

| 2.4GHz WLAN       |               | Reduced Power for Simultaneous |                     |               |              |       |
|-------------------|---------------|--------------------------------|---------------------|---------------|--------------|-------|
| Mode              | Channel       | Frequency (MHz)                | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 2.4GHz WLAN       | 802.11b 6Mbps | 1                              | 2412                | 14.17         | 15.50        | 100   |
|                   |               | 6                              | 2437                | 14.26         | 15.50        |       |
|                   |               | 11                             | 2462                | 14.23         | 15.50        |       |
| 802.11g 6Mbps     | 1             | 2412                           | 14.23               | 15.50         | 98.58        |       |
|                   |               | 6                              | 2437                | 15.50         |              | 15.50 |
|                   |               | 11                             | 2462                | 15.50         |              | 15.50 |
| 802.11n-HT20 MCS0 | 1             | 2412                           | Not Inquired        | 15.50         | 98.52        |       |
|                   |               | 6                              | 2437                | 15.50         |              | 15.50 |
|                   |               | 11                             | 2462                | 15.50         |              | 15.50 |

| 5GHz WLAN           |               | Full            |                     |               |              |       |
|---------------------|---------------|-----------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.2GHz WLAN         | 802.11a 6Mbps | 36              | 5180                | 17.96         | 18.50        | 98.28 |
|                     |               | 40              | 5200                | 19.40         | 19.50        |       |
|                     |               | 44              | 5220                | 18.26         | 19.50        |       |
|                     |               | 48              | 5240                | 18.93         | 19.50        |       |
| 802.11n-HT20 MCS0   | 36            | 5180            | 17.02               | 18.50         | 98.16        |       |
|                     |               | 40              | 5200                | 18.94         |              | 19.50 |
|                     |               | 44              | 5220                | 19.49         |              | 19.50 |
|                     |               | 48              | 5240                | 19.20         |              | 19.50 |
| 802.11n-HT40 MCS0   | 38            | 5190            | 12.96               | 14.00         | 96.03        |       |
|                     |               | 46              | 5230                | 19.33         |              | 19.40 |
|                     |               | 36              | 5180                | 16.19         |              | 17.00 |
|                     |               | 40              | 5200                | 18.20         |              | 17.00 |
| 802.11ac-VHT20 MCS0 | 44            | 5220            | 15.94               | 17.00         | 98.01        |       |
|                     |               | 48              | 5240                | 15.90         |              | 17.00 |
|                     |               | 38              | 5190                | 18.06         |              | 17.00 |
|                     |               | 46              | 5230                | 15.93         |              | 17.00 |
| 802.11ac-VHT40 MCS0 | 42            | 5210            | 12.17               | 13.50         | 91           |       |
|                     |               | 5210            | 12.17               | 13.50         |              |       |

| 5GHz WLAN           |               | Reduced Power for Simultaneous&Hotspot |                     |               |              |       |
|---------------------|---------------|--|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz)                        | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.2GHz WLAN         | 802.11a 6Mbps | 36                                     | 5180                | 7.15          | 7.50         | 98.28 |
|                     |               | 40                                     | 5200                | 7.23          | 7.50         |       |
|                     |               | 44                                     | 5220                | 7.19          | 7.50         |       |
|                     |               | 48                                     | 5240                | 7.17          | 7.50         |       |
| 802.11n-HT20 MCS0   | 36            | 5180                                   | 7.50                | 7.50          | 98.16        |       |
|                     |               | 40                                     | 5200                | 7.50          |              | 7.50  |
|                     |               | 44                                     | 5220                | 7.50          |              | 7.50  |
|                     |               | 48                                     | 5240                | 7.50          |              | 7.50  |
| 802.11n-HT40 MCS0   | 38            | 5190                                   | 7.00                | 7.00          | 96.03        |       |
|                     |               | 46                                     | 5230                | 7.00          |              | 7.00  |
|                     |               | 36                                     | 5180                | 7.50          |              | 7.50  |
|                     |               | 40                                     | 5200                | 7.50          |              | 7.50  |
| 802.11ac-VHT20 MCS0 | 44            | 5220                                   | 7.50                | 7.50          | 98.01        |       |
|                     |               | 48                                     | 5240                | 7.50          |              | 7.50  |
|                     |               | 38                                     | 5190                | 7.00          |              | 7.00  |
|                     |               | 46                                     | 5230                | 7.00          |              | 7.00  |
| 802.11ac-VHT40 MCS0 | 42            | 5210                                   | 7.00                | 7.00          | 96.5         |       |
|                     |               | 5210                                   | 7.00                | 7.00          |              |       |

| 5GHz WLAN           |               | Reduced Power for P-Sensor |                     |               |              |       |
|---------------------|---------------|----------------------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz)            | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.2GHz WLAN         | 802.11a 6Mbps | 36                         | 5180                | 11.49         | 12.00        | 98.28 |
|                     |               | 40                         | 5200                | 11.51         | 12.00        |       |
|                     |               | 44                         | 5220                | 11.37         | 12.00        |       |
|                     |               | 48                         | 5240                | 11.23         | 12.00        |       |
| 802.11n-HT20 MCS0   | 36            | 5180                       | 12.00               | 12.00         | 98.16        |       |
|                     |               | 40                         | 5200                | 12.00         |              | 12.00 |
|                     |               | 44                         | 5220                | 12.00         |              | 12.00 |
|                     |               | 48                         | 5240                | 12.00         |              | 12.00 |
| 802.11n-HT40 MCS0   | 38            | 5190                       | 11.50               | 11.50         | 96.03        |       |
|                     |               | 46                         | 5230                | 11.50         |              | 11.50 |
|                     |               | 36                         | 5180                | 12.00         |              | 12.00 |
|                     |               | 40                         | 5200                | 12.00         |              | 12.00 |
| 802.11ac-VHT20 MCS0 | 44            | 5220                       | 12.00               | 12.00         | 98.01        |       |
|                     |               | 48                         | 5240                | 12.00         |              | 12.00 |
|                     |               | 38                         | 5190                | 11.50         |              | 11.50 |
|                     |               | 46                         | 5230                | 11.50         |              | 11.50 |
| 802.11ac-VHT40 MCS0 | 42            | 5210                       | 11.50               | 11.50         | 96.5         |       |
|                     |               | 5210                       | 11.50               | 11.50         |              |       |

| 5GHz WLAN           |               | Full            |                     |               |              |       |
|---------------------|---------------|-----------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.3GHz WLAN         | 802.11a 6Mbps | 52              | 5260                | 19.26         | 19.50        | 98.28 |
|                     |               | 56              | 5280                | 19.39         | 19.50        |       |
|                     |               | 60              | 5300                | 19.36         | 19.50        |       |
|                     |               | 64              | 5320                | 17.75         | 19.00        |       |
| 802.11n-HT20 MCS0   | 52            | 5260            | 19.15               | 19.50         | 98.16        |       |
|                     |               | 56              | 5280                | 19.23         |              | 19.50 |
|                     |               | 60              | 5300                | 19.26         |              | 19.50 |
|                     |               | 64              | 5320                | 17.62         |              | 19.00 |
| 802.11n-HT40 MCS0   | 54            | 5270            | 19.23               | 19.40         | 96.03        |       |
|                     |               | 62              | 5310                | 15.62         |              | 17.00 |
|                     |               | 52              | 5260                | 15.73         |              | 17.00 |
|                     |               | 56              | 5280                | 15.83         |              | 17.00 |
| 802.11ac-VHT20 MCS0 | 60            | 5300            | 15.81               | 17.00         | 98.01        |       |
|                     |               | 64              | 5320                | 15.87         |              | 17.00 |
|                     |               | 54              | 5270                | 15.72         |              | 17.00 |
|                     |               | 62              | 5310                | 15.77         |              | 17.00 |
| 802.11ac-VHT40 MCS0 | 58            | 5290            | 14.47               | 16.00         | 91           |       |
|                     |               | 58              | 5290                | 14.47         |              | 16.00 |

| 5GHz WLAN           |               | Reduced Power for Simultaneous |                     |               |              |       |
|---------------------|---------------|--------------------------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz)                | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.3GHz WLAN         | 802.11a 6Mbps | 52                             | 5260                | 6.30          | 7.50         | 98.28 |
|                     |               | 56                             | 5280                | 6.16          | 7.50         |       |
|                     |               | 60                             | 5300                | 6.31          | 7.50         |       |
|                     |               | 64                             | 5320                | 6.27          | 7.50         |       |
| 802.11n-HT20 MCS0   | 52            | 5260                           | 7.50                | 7.50          | 98.16        |       |
|                     |               | 56                             | 5280                | 7.50          |              | 7.50  |
|                     |               | 60                             | 5300                | 7.50          |              | 7.50  |
|                     |               | 64                             | 5320                | 7.50          |              | 7.50  |
| 802.11n-HT40 MCS0   | 54            | 5270                           | 7.00                | 7.00          | 96.03        |       |
|                     |               | 62                             | 5310                | 7.00          |              | 7.00  |
|                     |               | 52                             | 5260                | 7.50          |              | 7.50  |
|                     |               | 56                             | 5280                | 7.50          |              | 7.50  |
| 802.11ac-VHT20 MCS0 | 60            | 5300                           | 7.50                | 7.50          | 98.01        |       |
|                     |               | 64                             | 5320                | 7.50          |              | 7.50  |
|                     |               | 54                             | 5270                | 7.00          |              | 7.00  |
|                     |               | 62                             | 5310                | 7.00          |              | 7.00  |
| 802.11ac-VHT40 MCS0 | 58            | 5290                           | 7.50                | 7.50          | 96.5         |       |
|                     |               | 58                             | 5290                | 7.50          |              | 7.50  |

| 5GHz WLAN           |               | Reduced Power for P-Sensor |                     |               |              |       |
|---------------------|---------------|----------------------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz)            | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.3GHz WLAN         | 802.11a 6Mbps | 52                         | 5260                | 11.15         | 12.00        | 98.28 |
|                     |               | 56                         | 5280                | 11.29         | 12.00        |       |
|                     |               | 60                         | 5300                | 11.23         | 12.00        |       |
|                     |               | 64                         | 5320                | 11.15         | 12.00        |       |
| 802.11n-HT20 MCS0   | 52            | 5260                       | 12.00               | 12.00         | 98.16        |       |
|                     |               | 56                         | 5280                | 12.00         |              | 12.00 |
|                     |               | 60                         | 5300                | 12.00         |              | 12.00 |
|                     |               | 64                         | 5320                | 12.00         |              | 12.00 |
| 802.11n-HT40 MCS0   | 54            | 5270                       | 11.50               | 11.50         | 96.03        |       |
|                     |               | 62                         | 5310                | 11.50         |              | 11.50 |
|                     |               | 52                         | 5260                | 12.00         |              | 12.00 |
|                     |               | 56                         | 5280                | 12.00         |              | 12.00 |
| 802.11ac-VHT20 MCS0 | 60            | 5300                       | 12.00               | 12.00         | 98.01        |       |
|                     |               | 64                         | 5320                | 12.00         |              | 12.00 |
|                     |               | 54                         | 5270                | 11.50         |              | 11.50 |
|                     |               | 62                         | 5310                | 11.50         |              | 11.50 |
| 802.11ac-VHT40 MCS0 | 58            | 5290                       | 11.50               | 11.50         | 96.5         |       |
|                     |               | 58                         | 5290                | 11.50         |              | 11.50 |

| 5GHz WLAN           |               | Full            |                     |               |              |       |
|---------------------|---------------|-----------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.5GHz WLAN         | 802.11a 6Mbps | 100             | 5500                | 18.83         | 19.50        | 98.28 |
|                     |               | 116             | 5580                | 18.70         | 19.50        |       |
|                     |               | 124             | 5620                | 18.68         | 19.50        |       |
|                     |               | 132             | 5660                | 19.30         | 19.50        |       |
|                     |               | 140             | 5700                | 18.35         | 19.50        |       |
|                     |               | 144             | 5720                | 19.33         | 19.50        |       |
| 802.11n-HT20 MCS0   | 100           | 5500            | 18.72               | 19.50         | 98.16        |       |
|                     |               | 116             | 5580                | 18.82         |              | 19.50 |
|                     |               | 124             | 5620                | 19.71         |              | 19.50 |
|                     |               | 132             | 5660                | 19.33         |              | 19.50 |
|                     |               | 140             | 5700                | 18.40         |              | 19.50 |
|                     |               | 144             | 5720                | 19.35         |              | 19.50 |
| 802.11n-HT40 MCS0   | 102           | 5510            | 18.34               | 18.00         | 96.03        |       |
|                     |               | 110             | 5550                | 18.44         |              | 19.00 |
|                     |               | 126             | 5630                | 18.93         |              | 19.00 |
|                     |               | 134             | 5670                | 17.72         |              | 18.50 |
|                     |               | 142             | 5710                | 19.38         |              | 19.40 |
|                     |               | 100             | 5500                | 15.99         |              | 17.00 |
| 802.11ac-VHT20 MCS0 | 116           | 5580            | 15.64               | 17.00         | 98.01        |       |
|                     |               | 124             | 5620                | 18.24         |              | 17.00 |
|                     |               | 132             | 5660                | 18.03         |              | 17.00 |
|                     |               | 140             | 5700                | 18.83         |              | 17.00 |
|                     |               | 144             | 5720                | 16.98         |              | 17.00 |
|                     |               | 102             | 5510                | 18.88         |              | 17.00 |
| 802.11ac-VHT40 MCS0 | 110           | 5550            | 16.36               | 17.00         | 96.5         |       |
|                     |               | 126             | 5630                | 16.25         |              | 17.00 |
|                     |               | 134             | 5670                | 16.27         |              | 17.00 |
|                     |               | 142             | 5710                | 16.82         |              | 17.00 |
|                     |               | 106             | 5530                | 12.94         |              | 14.00 |
|                     |               | 122             | 5610                | 15.91         |              | 17.00 |
| 802.11ac-VHT80 MCS0 | 138           | 5690            | 16.46               | 17.00         | 91           |       |
|                     |               | 138             | 5690                | 16.46         |              | 17.00 |

| 5GHz WLAN           |               | Reduced Power for Simultaneous |                     |               |              |       |
|---------------------|---------------|--------------------------------|---------------------|---------------|--------------|-------|
| Mode                | Channel       | Frequency (MHz)                | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |
| 5.5GHz WLAN         | 802.11a 6Mbps | 100                            | 5500                | 6.28          | 7.50         | 98.28 |
|                     |               | 116                            | 5580                | 5.75          | 7.50         |       |
|                     |               | 124                            | 5620                | 6.05          | 7.50         |       |
|                     |               | 132                            | 5660                | 6.37          | 7.50         |       |
|                     |               | 140                            | 5700                | 6.73          | 7.50         |       |
|                     |               | 144                            | 5720                | 6.87          | 7.50         |       |
| 802.11n-HT20 MCS0   | 100           | 5500                           | 7.50                | 7.50          | 98.16        |       |
|                     |               | 116                            | 5580                | 7.50          |              | 7.50  |
|                     |               | 124                            | 5620                | 7.50          |              | 7.50  |
|                     |               | 132                            | 5660                | 7.50          |              | 7.50  |
|                     |               | 140                            | 5700                | 7.50          |              | 7.50  |
|                     |               | 144                            | 5720                | 7.50          |              | 7.50  |
| 802.11n-HT40 MCS0   | 102           | 5510                           | 7.00                | 7.00          | 96.03        |       |
|                     |               | 110                            | 5550                | 7.00          |              | 7.00  |
|                     |               | 126                            | 5630                | 7.00          |              | 7.00  |
|                     |               | 134                            | 5670                | 7.00          |              | 7.00  |
|                     |               | 142                            | 5710                | 7.00          |              | 7.00  |
|                     |               | 100                            | 5500                | 7.50          |              | 7.50  |
| 802.11ac-VHT20 MCS0 | 116           | 5580                           | 7.50                | 7.50          | 98.01        |       |
|                     |               | 124                            | 5620                | 7.50          |              | 7.50  |
|                     |               | 132                            | 5660                | 7.50          |              | 7.50  |
|                     |               | 140                            | 5700                | 7.50          |              | 7.50  |
|                     |               | 144                            | 5720                | 7.50          |              | 7.50  |
|                     |               | 102                            | 5510                | 7.00          |              | 7.00  |
| 802.11ac-VHT40 MCS0 | 110           | 5550                           | 7.00                | 7.00          | 96.5         |       |
|                     |               | 126                            | 5630                | 7.00          |              | 7.00  |
|                     |               | 134                            | 5670                | 7.00          |              | 7.00  |
|                     |               | 142                            | 5710                | 7.00          |              | 7.00  |
|                     |               | 106                            | 5530                | 7.00          |              | 7.00  |
|                     |               | 122                            | 5610                | 7.00          |              | 7.00  |
| 802.11ac-VHT80 MCS0 | 138           | 5690                           | 7.00                | 7.00          | 91           |       |
|                     |               | 138                            | 5690                | 7.00          |              | 7.00  |

| 5GHz WLAN |         | Reduced Power for P-Sensor |   |  |  |  |
|-----------|---------|----------------------------|---|--|--|--|
| Mode      | Channel | Frequency (MHz)            | A |  |  |  |



**Appendix F. Supplemental Tuner Head & Body SAR Results**

The results are shown as follows.



**Head**

| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|-------------|--------------------|-----------------|---------|---------|-----------|---------------|---------|------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
|             |                    |                 |         |         |           |               |         |                        | Auto-Tune                          | 0     | 6     | 12    | 18    | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 114   | 120   | 126   | 132   | 138   |  |  |  |
| WCDMA II    | RMC12.2K           | 1880            | 9400    | N/A     | N/A       | Left Cheek    | 0 mm    | 0.085                  | 0.118                              | 0.019 | 0.046 | 0.019 | 0.040 | 0.059 | 0.033 | 0.041 | 0.054 | 0.034 | 0.053 | 0.068 | 0.053 | 0.028 | 0.070 | 0.064 | 0.033 | 0.082 | 0.081 | 0.010 | 0.074 | 0.086 | 0.011 | 0.078 | 0.094 |  |  |  |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
| WCDMA IV    | RMC12.2K           | 1732.6          | 1413    | N/A     | N/A       | Right Cheek   | 0 mm    | 0.131                  | 0.175                              | 0.015 | 0.052 | 0.013 | 0.080 | 0.086 | 0.044 | 0.019 | 0.076 | 0.040 | 0.028 | 0.031 | 0.070 | 0.007 | 0.037 | 0.060 | 0.013 | 0.019 | 0.033 | 0.002 | 0.015 | 0.021 | 0.004 | 0.008 | 0.012 |  |  |  |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
| WCDMA V     | RMC12.2K           | 826.4           | 4132    | N/A     | N/A       | Right Cheek   | 0 mm    | 0.388                  | 0.458                              | 0.135 | 0.361 | 0.258 | 0.364 | 0.312 | 0.324 | 0.042 | 0.297 | 0.138 | 0.233 | 0.113 | 0.173 | 0.020 | 0.185 | 0.073 | 0.111 | 0.084 | 0.117 | 0.008 | 0.084 | 0.031 | 0.040 | 0.043 | 0.056 |  |  |  |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
| LTE Band 2  | QPSK               | 1880            | 18900   | 1       | 0         | Left Cheek    | 0 mm    | 0.095                  | 0.129                              | 0.041 | 0.006 | 0.021 | 0.058 | 0.014 | 0.015 | 0.070 | 0.020 | 0.026 | 0.087 | 0.033 | 0.043 | 0.098 | 0.016 | 0.040 | 0.108 | 0.022 | 0.059 | 0.100 | 0.007 | 0.047 | 0.098 | 0.008 | 0.064 |  |  |  |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
| LTE Band 5  | QPSK               | 836.5           | 20525   | 1       | 0         | Right Cheek   | 0 mm    | 0.361                  | 0.428                              | 0.140 | 0.023 | 0.151 | 0.207 | 0.152 | 0.190 | 0.060 | 0.005 | 0.101 | 0.092 | 0.046 | 0.074 | 0.031 | 0.002 | 0.054 | 0.065 | 0.016 | 0.051 | 0.012 | 0.001 | 0.021 | 0.031 | 0.004 | 0.024 |  |  |  |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
| LTE Band 66 | QPSK               | 1745            | 133222  | 1       | 0         | Right Cheek   | 0 mm    | 0.171                  | 0.171                              | 0.042 | 0.010 | 0.013 | 0.072 | 0.032 | 0.038 | 0.063 | 0.033 | 0.022 | 0.036 | 0.040 | 0.062 | 0.037 | 0.016 | 0.040 | 0.022 | 0.018 | 0.053 | 0.015 | 0.003 | 0.049 | 0.009 | 0.006 | 0.024 |  |  |  |



**Body**

| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------|--------------------|-----------------|---------|---------|-----------|---------------|---------|------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             |                    |                 |         |         |           |               |         |                        | Auto-Tune                          | 0     | 6     | 12    | 18    | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 114   | 120   | 126   | 132   | 138   |
| WCDMA II    | RMC12.2K           | 1852.4          | 9262    | N/A     | N/A       | Back          | 5mm     | 1.230                  | 2.130                              | 0.387 | 0.782 | 0.342 | 0.638 | 1.098 | 0.603 | 0.616 | 1.074 | 0.651 | 0.828 | 1.273 | 1.023 | 0.358 | 1.285 | 1.049 | 0.480 | 1.282 | 1.256 | 0.155 | 1.126 | 1.037 | 0.202 | 0.957 | 0.997 |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| WCDMA IV    | RMC12.2K           | 1752.6          | 1513    | N/A     | N/A       | Back          | 5mm     | 1.091                  | 1.470                              | 0.644 | 0.891 | 0.279 | 1.217 | 1.281 | 0.776 | 0.609 | 1.190 | 0.705 | 0.692 | 0.651 | 1.084 | 0.286 | 0.773 | 0.987 | 0.409 | 0.437 | 0.730 | 0.112 | 0.342 | 0.497 | 0.178 | 0.213 | 0.319 |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| WCDMA V     | RMC12.2K           | 846.6           | 4233    | N/A     | N/A       | Back          | 5mm     | 0.920                  | 1.110                              | 0.186 | 0.700 | 0.455 | 0.408 | 0.839 | 0.738 | 0.071 | 0.719 | 0.406 | 0.361 | 0.032 | 0.503 | 0.028 | 0.635 | 0.225 | 0.065 | 0.409 | 0.326 | 0.016 | 0.383 | 0.097 | 0.024 | 0.233 | 0.148 |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LTE Band 2  | QPSK               | 1860            | 18700   | 1       | 0         | Back          | 5mm     | 1.210                  | 1.970                              | 0.775 | 0.167 | 0.387 | 1.128 | 0.356 | 0.689 | 1.318 | 0.372 | 0.542 | 1.481 | 0.599 | 0.945 | 1.438 | 0.237 | 0.823 | 1.376 | 0.346 | 1.199 | 0.982 | 0.103 | 1.011 | 0.878 | 0.143 | 1.155 |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LTE Band 5  | QPSK               | 836.5           | 20525   | 1       | 0         | Back          | 5mm     | 1.01                   | 1.540                              | 0.721 | 0.119 | 0.779 | 1.104 | 0.410 | 1.105 | 0.416 | 0.038 | 0.732 | 0.600 | 0.116 | 0.606 | 0.230 | 0.023 | 0.435 | 0.400 | 0.047 | 0.434 | 0.101 | 0.010 | 0.194 | 0.192 | 0.016 | 0.213 |
| Mode        | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| LTE Band 66 | QPSK               | 1770            | 132572  | 1       | 0         | Back          | 5mm     | 1.190                  | 1.192                              | 0.821 | 0.210 | 0.269 | 1.189 | 0.596 | 0.729 | 1.139 | 0.680 | 0.455 | 0.692 | 0.868 | 1.058 | 0.754 | 0.413 | 0.744 | 0.477 | 0.470 | 0.933 | 0.329 | 0.145 | 0.161 | 0.232 | 0.181 | 0.498 |



Body-verified for SAR higher than 1.2W/Kg

| Mode     | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured Ig SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |        |       |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |     |     |     |
|----------|--------------------|-----------------|---------|---------|-----------|---------------|---------|------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|
|          |                    |                 |         |         |           |               |         |                        | Auto-Tune                          | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7      | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    |     |     |     |     |     |     |     |
|          |                    |                 |         |         |           |               |         |                        | 1.970                              | 0.387 | 0.484 | 0.607 | 0.707 | 0.755 | 0.761 | 0.782 | 0.791  | 0.806 | 0.156 | 0.211 | 0.281 | 0.342 | 0.369 | 0.370 | 0.389 | 0.390 | 0.397 | 0.638 | 0.762 |     |     |     |     |     |     |     |
| WCDMA II | RMC12.2K           | 1852.4          | 9262    | N/A     | N/A       | Back          | 5mm     | 1.23                   | 20                                 | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28     | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    |     |     |     |     |     |     |     |
|          |                    |                 |         |         |           |               |         |                        | 41                                 | 42    | 43    | 44    | 45    | 46    | 47    | 48    | 49     | 50    | 51    | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62  | 63  | 64  | 65  | 66  |     |     |
|          |                    |                 |         |         |           |               |         |                        | 62                                 | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 70     | 71    | 72    | 73    | 74    | 75    | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83  | 84  | 85  | 86  | 87  | 88  |     |
|          |                    |                 |         |         |           |               |         |                        | 83                                 | 84    | 85    | 86    | 87    | 88    | 89    | 90    | 91     | 92    | 93    | 94    | 95    | 96    | 97    | 98    | 99    | 100   | 101   | 102   | 103   | 104 | 105 | 106 | 107 | 108 | 109 |     |
|          |                    |                 |         |         |           |               |         |                        | 104                                | 105   | 106   | 107   | 108   | 109   | 110   | 111   | 112    | 113   | 114   | 115   | 116   | 117   | 118   | 119   | 120   | 121   | 122   | 123   | 124   | 125 | 126 | 127 | 128 | 129 | 130 |     |
|          |                    |                 |         |         |           |               |         |                        | 125                                | 126   | 127   | 128   | 129   | 130   | 131   | 132   | 133    | 134   | 135   | 136   | 137   | 138   | 139   | 140   | 141   | 142   | 143   | 144   | 145   | 146 | 147 | 148 | 149 | 150 | 151 |     |
|          |                    |                 |         |         |           |               |         |                        | 151                                | 152   | 153   | 154   | 155   | 156   | 157   | 158   | 159    | 160   | 161   | 162   | 163   | 164   | 165   | 166   | 167   | 168   | 169   | 170   | 171   | 172 | 173 | 174 | 175 | 176 | 177 |     |
|          |                    |                 |         |         |           |               |         |                        | 176                                | 177   | 178   | 179   | 180   | 181   | 182   | 183   | 184    | 185   | 186   | 187   | 188   | 189   | 190   | 191   | 192   | 193   | 194   | 195   | 196   | 197 | 198 | 199 | 200 | 201 | 202 |     |
|          |                    |                 |         |         |           |               |         |                        | 202                                | 203   | 204   | 205   | 206   | 207   | 208   | 209   | 210    | 211   | 212   | 213   | 214   | 215   | 216   | 217   | 218   | 219   | 220   | 221   | 222   | 223 | 224 | 225 | 226 | 227 | 228 | 229 |
|          |                    |                 |         |         |           |               |         |                        | 229                                | 230   | 231   | 232   | 233   | 234   | 235   | 236   | 237    | 238   | 239   | 240   | 241   | 242   | 243   | 244   | 245   | 246   | 247   | 248   | 249   | 250 | 251 | 252 | 253 | 254 | 255 | 256 |
|          |                    |                 |         |         |           |               |         |                        | 256                                | 257   | 258   | 259   | 260   | 261   | 262   | 263   | 264    | 265   | 266   | 267   | 268   | 269   | 270   | 271   | 272   | 273   | 274   | 275   | 276   | 277 | 278 | 279 | 280 | 281 | 282 | 283 |
|          |                    |                 |         |         |           |               |         |                        | 283                                | 284   | 285   | 286   | 287   | 288   | 289   | 290   | 291    | 292   | 293   | 294   | 295   | 296   | 297   | 298   | 299   | 300   | 301   | 302   | 303   | 304 | 305 | 306 | 307 | 308 | 309 | 310 |
| 310      | 311                | 312             | 313     | 314     | 315       | 316           | 317     | 318                    | 319                                | 320   | 321   | 322   | 323   | 324   | 325   | 326   | 327    | 328   | 329   | 330   | 331   | 332   | 333   | 334   | 335   | 336   | 337   |       |       |     |     |     |     |     |     |     |
| 337      | 338                | 339             | 340     | 341     | 342       | 343           | 344     | 345                    | 346                                | 347   | 348   | 349   | 350   | 351   | 352   | 353   | 354    | 355   | 356   | 357   | 358   | 359   | 360   | 361   | 362   | 363   | 364   |       |       |     |     |     |     |     |     |     |
| 364      | 365                | 366             | 367     | 368     | 369       | 370           | 371     | 372                    | 373                                | 374   | 375   | 376   | 377   | 378   | 379   | 380   | 381    | 382   | 383   | 384   | 385   | 386   | 387   | 388   | 389   | 390   | 391   |       |       |     |     |     |     |     |     |     |
| 391      | 392                | 393             | 394     | 395     | 396       | 397           | 398     | 399                    | 400                                | 401   | 402   | 403   | 404   | 405   | 406   | 407   | 408    | 409   | 410   | 411   | 412   | 413   | 414   | 415   | 416   | 417   | 418   |       |       |     |     |     |     |     |     |     |
| 418      | 419                | 420             | 421     | 422     | 423       | 424           | 425     | 426                    | 427                                | 428   | 429   | 430   | 431   | 432   | 433   | 434   | 435    | 436   | 437   | 438   | 439   | 440   | 441   | 442   | 443   | 444   | 445   |       |       |     |     |     |     |     |     |     |
| 445      | 446                | 447             | 448     | 449     | 450       | 451           | 452     | 453                    | 454                                | 455   | 456   | 457   | 458   | 459   | 460   | 461   | 462    | 463   | 464   | 465   | 466   | 467   | 468   | 469   | 470   | 471   | 472   |       |       |     |     |     |     |     |     |     |
| 472      | 473                | 474             | 475     | 476     | 477       | 478           | 479     | 480                    | 481                                | 482   | 483   | 484   | 485   | 486   | 487   | 488   | 489    | 490   | 491   | 492   | 493   | 494   | 495   | 496   | 497   | 498   | 499   |       |       |     |     |     |     |     |     |     |
| 499      | 500                | 501             | 502     | 503     | 504       | 505           | 506     | 507                    | 508                                | 509   | 510   | 511   | 512   | 513   | 514   | 515   | 516    | 517   | 518   | 519   | 520   | 521   | 522   | 523   | 524   | 525   | 526   |       |       |     |     |     |     |     |     |     |
| 526      | 527                | 528             | 529     | 530     | 531       | 532           | 533     | 534                    | 535                                | 536   | 537   | 538   | 539   | 540   | 541   | 542   | 543    | 544   | 545   | 546   | 547   | 548   | 549   | 550   | 551   | 552   | 553   |       |       |     |     |     |     |     |     |     |
| 553      | 554                | 555             | 556     | 557     | 558       | 559           | 560     | 561                    | 562                                | 563   | 564   | 565   | 566   | 567   | 568   | 569   | 570    | 571   | 572   | 573   | 574   | 575   | 576   | 577   | 578   | 579   | 580   |       |       |     |     |     |     |     |     |     |
| 580      | 581                | 582             | 583     | 584     | 585       | 586           | 587     | 588                    | 589                                | 590   | 591   | 592   | 593   | 594   | 595   | 596   | 597    | 598   | 599   | 600   | 601   | 602   | 603   | 604   | 605   | 606   | 607   |       |       |     |     |     |     |     |     |     |
| 607      | 608                | 609             | 610     | 611     | 612       | 613           | 614     | 615                    | 616                                | 617   | 618   | 619   | 620   | 621   | 622   | 623   | 624    | 625   | 626   | 627   | 628   | 629   | 630   | 631   | 632   | 633   | 634   |       |       |     |     |     |     |     |     |     |
| 634      | 635                | 636             | 637     | 638     | 639       | 640           | 641     | 642                    | 643                                | 644   | 645   | 646   | 647   | 648   | 649   | 650   | 651    | 652   | 653   | 654   | 655   | 656   | 657   | 658   | 659   | 660   | 661   |       |       |     |     |     |     |     |     |     |
| 661      | 662                | 663             | 664     | 665     | 666       | 667           | 668     | 669                    | 670                                | 671   | 672   | 673   | 674   | 675   | 676   | 677   | 678    | 679   | 680   | 681   | 682   | 683   | 684   | 685   | 686   | 687   | 688   |       |       |     |     |     |     |     |     |     |
| 688      | 689                | 690             | 691     | 692     | 693       | 694           | 695     | 696                    | 697                                | 698   | 699   | 700   | 701   | 702   | 703   | 704   | 705    | 706   | 707   | 708   | 709   | 710   | 711   | 712   | 713   | 714   | 715   |       |       |     |     |     |     |     |     |     |
| 715      | 716                | 717             | 718     | 719     | 720       | 721           | 722     | 723                    | 724                                | 725   | 726   | 727   | 728   | 729   | 730   | 731   | 732    | 733   | 734   | 735   | 736   | 737   | 738   | 739   | 740   | 741   | 742   |       |       |     |     |     |     |     |     |     |
| 742      | 743                | 744             | 745     | 746     | 747       | 748           | 749     | 750                    | 751                                | 752   | 753   | 754   | 755   | 756   | 757   | 758   | 759    | 760   | 761   | 762   | 763   | 764   | 765   | 766   | 767   | 768   | 769   |       |       |     |     |     |     |     |     |     |
| 769      | 770                | 771             | 772     | 773     | 774       | 775           | 776     | 777                    | 778                                | 779   | 780   | 781   | 782   | 783   | 784   | 785   | 786    | 787   | 788   | 789   | 790   | 791   | 792   | 793   | 794   | 795   | 796   |       |       |     |     |     |     |     |     |     |
| 796      | 797                | 798             | 799     | 800     | 801       | 802           | 803     | 804                    | 805                                | 806   | 807   | 808   | 809   | 810   | 811   | 812   | 813    | 814   | 815   | 816   | 817   | 818   | 819   | 820   | 821   | 822   | 823   |       |       |     |     |     |     |     |     |     |
| 823      | 824                | 825             | 826     | 827     | 828       | 829           | 830     | 831                    | 832                                | 833   | 834   | 835   | 836   | 837   | 838   | 839   | 840    | 841   | 842   | 843   | 844   | 845   | 846   | 847   | 848   | 849   | 850   |       |       |     |     |     |     |     |     |     |
| 850      | 851                | 852             | 853     | 854     | 855       | 856           | 857     | 858                    | 859                                | 860   | 861   | 862   | 863   | 864   | 865   | 866   | 867    | 868   | 869   | 870   | 871   | 872   | 873   | 874   | 875   | 876   | 877   |       |       |     |     |     |     |     |     |     |
| 877      | 878                | 879             | 880     | 881     | 882       | 883           | 884     | 885                    | 886                                | 887   | 888   | 889   | 890   | 891   | 892   | 893   | 894    | 895   | 896   | 897   | 898   | 899   | 900   | 901   | 902   | 903   | 904   |       |       |     |     |     |     |     |     |     |
| 904      | 905                | 906             | 907     | 908     | 909       | 910           | 911     | 912                    | 913                                | 914   | 915   | 916   | 917   | 918   | 919   | 920   | 921    | 922   | 923   | 924   | 925   | 926   | 927   | 928   | 929   | 930   | 931   |       |       |     |     |     |     |     |     |     |
| 931      | 932                | 933             | 934     | 935     | 936       | 937           | 938     | 939                    | 940                                | 941   | 942   | 943   | 944   | 945   | 946   | 947   | 948    | 949   | 950   | 951   | 952   | 953   | 954   | 955   | 956   | 957   | 958   |       |       |     |     |     |     |     |     |     |
| 958      | 959                | 960             | 961     | 962     | 963       | 964           | 965     | 966                    | 967                                | 968   | 969   | 970   | 971   | 972   | 973   | 974   | 975    | 976   | 977   | 978   | 979   | 980   | 981   | 982   | 983   | 984   | 985   |       |       |     |     |     |     |     |     |     |
| 985      | 986                | 987             | 988     | 989     | 990       | 991           | 992     | 993                    | 994                                | 995   | 996   | 997   | 998   | 999   | 1000  | 1001  | 1002   | 1003  | 1004  | 1005  | 1006  | 1007  | 1008  | 1009  | 1010  | 1011  | 1012  |       |       |     |     |     |     |     |     |     |
| 1012     | 1013               | 1014            | 1015    | 1016    | 1017      | 1018          | 1019    | 1020                   | 1021                               | 1022  | 1023  | 1024  | 1025  | 1026  | 1027  | 1028  | 1029   | 1030  | 1031  | 1032  | 1033  | 1034  | 1035  | 1036  | 1037  | 1038  | 1039  |       |       |     |     |     |     |     |     |     |
| 1039     | 1040               | 1041            | 1042    | 1043    | 1044      | 1045          | 1046    | 1047                   | 1048                               | 1049  | 1050  | 1051  | 1052  | 1053  | 1054  | 1055  | 1056   | 1057  | 1058  | 1059  | 1060  | 1061  | 1062  | 1063  | 1064  | 1065  | 1066  |       |       |     |     |     |     |     |     |     |
| 1066     | 1067               | 1068            | 1069    | 1070    | 1071      | 1072          | 1073    | 1074                   | 1075                               | 1076  | 1077  | 1078  | 1079  | 1080  | 1081  | 1082  | 1083   | 1084  | 1085  | 1086  | 1087  | 1088  | 1089  | 1090  | 1091  | 1092  | 1093  |       |       |     |     |     |     |     |     |     |
| 1093     | 1094               | 1095            | 1096    | 1097    | 1098      | 1099          | 1100    | 1101                   | 1102                               | 1103  | 1104  | 1105  | 1106  | 1107  | 1108  | 1109  | 1110   | 1111  | 1112  | 1113  | 1114  | 1115  | 1116  | 1117  | 1118  | 1119  | 1120  |       |       |     |     |     |     |     |     |     |
| 1120     | 1121               | 1122            | 1123    | 1124    | 1125      | 1126          | 1127    | 1128                   | 1129                               | 1130  | 1131  | 1132  | 1133  | 1134  | 1135  | 1136  | 1137   | 1138  | 1139  | 1140  | 1141  | 1142  | 1143  | 1144  | 1145  | 1146  | 1147  |       |       |     |     |     |     |     |     |     |
| 1147     | 1148               | 1149            | 1150    | 1151    | 1152      | 1153          | 1154    | 1155                   | 1156                               | 1157  | 1158  | 1159  | 1160  | 1161  | 1162  | 1163  | 1164   | 1165  | 1166  | 1167  | 1168  | 1169  | 1170  | 1171  | 1172  | 1173  | 1174  |       |       |     |     |     |     |     |     |     |
| 1174     | 1175               | 1176            | 1177    | 1178    | 1179      | 1180          | 1181    | 1182                   | 1183                               | 1184  | 1185  | 1186  | 1187  | 1188  | 1189  | 1190  | 1191   | 1192  | 1193  | 1194  | 1195  | 1196  | 1197  | 1198  | 1199  | 1200  | 1201  |       |       |     |     |     |     |     |     |     |
| 1201     | 1202               | 1203            | 1204    | 1205    | 1206      | 1207          | 1208    | 1209                   | 1210                               | 1211  | 1212  | 1213  | 1214  | 1215  | 1216  | 1217  | 1218   | 1219  | 1220  | 1221  | 1222  | 1223  | 1224  | 1225  | 1226  | 1227  | 1228  |       |       |     |     |     |     |     |     |     |
| 1228     | 1229               | 1230            | 1231    | 1232    | 1233      | 1234          | 1235    | 1236                   | 1237                               | 1238  | 1239  | 1240  | 1241  | 1242  | 1243  | 1244  | 1245   | 1246  | 1247  | 1248  | 1249  | 1250  | 1251  | 1252  | 1253  | 1254  | 1255  |       |       |     |     |     |     |     |     |     |
| 1255     | 1256               | 1257            | 1258    | 1259    | 1260      | 1261          | 1262    | 1263                   | 1264                               | 1265  | 1266  | 1267  | 1268  | 1269  | 1270  | 1271  | 1272   | 1273  | 1274  | 1275  | 1276  | 1277  | 1278  | 1279  | 1280  | 1281  | 1282  |       |       |     |     |     |     |     |     |     |
| 1282     | 1283               | 1284            | 1285    | 1286    | 1287      | 1288          | 1289    | 1290                   | 1291                               | 1292  | 1293  | 1294  | 1295  | 1296  | 1297  | 1298  | 1299   | 1300  | 1301  | 1302  | 1303  | 1304  | 1305  | 1306  | 1307  | 1308  | 1309  |       |       |     |     |     |     |     |     |     |
| 1309     | 1310               | 1311            | 1312    | 1313    | 1314      | 1315          | 1316    | 1317                   | 1318                               | 1319  | 1320  | 1321  | 1322  | 1323  | 1324  | 1325  | 1326</ |       |       |       |       |       |       |       |       |       |       |       |       |     |     |     |     |     |     |     |