10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %

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 %

[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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Accreditation No.: SCS 0108

Client **Sporton**

Certificate No: EX3-3976_Jan20

CALIBRATION CERTIFICATE

Object: EX3DV4 - SN:3976

Calibration procedure(s): QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes

Calibration date: January 27, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: February 4, 2020

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Accreditation No.: SCS 0108

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z*: Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR*: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z*: *A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.48	0.50	0.54	± 10.1 %
DCP (mV)[B]	104.2	97.4	106.5	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max dev.	Max Unc[E] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	191.8	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00		186.3		
		Z	0.00	0.00	1.00		175.8		
10352-AAA	Pulse Waveform (200Hz, 10%)	X	20.00	94.27	22.80	10.00	60.0	± 2.9 %	± 9.6 %
		Y	20.00	92.24	21.74		60.0		
		Z	20.00	93.79	22.86		60.0		
10353-AAA	Pulse Waveform (200Hz, 20%)	X	20.00	99.71	24.52	6.99	80.0	± 1.9 %	± 9.6 %
		Y	20.00	94.54	21.52		80.0		
		Z	20.00	94.46	22.10		80.0		
10354-AAA	Pulse Waveform (200Hz, 40%)	X	20.00	112.84	29.50	3.98	95.0	± 1.2 %	± 9.6 %
		Y	20.00	97.96	21.49		95.0		
		Z	20.00	101.35	24.09		95.0		
10355-AAA	Pulse Waveform (200Hz, 60%)	X	20.00	141.13	41.02	2.22	120.0	± 1.4 %	± 9.6 %
		Y	20.00	112.18	26.31		120.0		
		Z	20.00	111.64	27.45		120.0		
10387-AAA	QPSK Waveform, 1 MHz	X	20.00	102.43	23.93	0.00	150.0	± 2.8 %	± 9.6 %
		Y	0.53	60.11	7.40		150.0		
		Z	0.96	65.89	11.65		150.0		
10388-AAA	QPSK Waveform, 10 MHz	X	3.27	75.78	19.98	0.00	150.0	± 1.1 %	± 9.6 %
		Y	2.23	68.86	16.32		150.0		
		Z	2.57	71.08	17.44		150.0		
10396-AAA	64-QAM Waveform, 100 kHz	X	3.94	77.03	22.30	3.01	150.0	± 1.2 %	± 9.6 %
		Y	2.66	69.29	18.75		150.0		
		Z	3.79	75.30	21.02		150.0		
10399-AAA	64-QAM Waveform, 40 MHz	X	3.91	69.68	17.48	0.00	150.0	± 2.0 %	± 9.6 %
		Y	3.48	67.32	16.03		150.0		
		Z	3.66	68.29	16.51		150.0		
10414-AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.94	66.38	16.22	0.00	150.0	± 4.0 %	± 9.6 %
		Y	4.77	65.66	15.68		150.0		
		Z	4.94	66.22	15.93		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 5).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	43.7	320.71	34.86	15.41	0.32	5.10	1.25	0.27	1.01
Y	39.8	301.78	36.70	10.48	0.56	5.08	0.00	0.43	1.01
Z	45.2	331.44	34.65	19.40	0.54	5.10	1.65	0.25	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-5.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Calibration Parameter Determined in Head Tissue Simulating Media

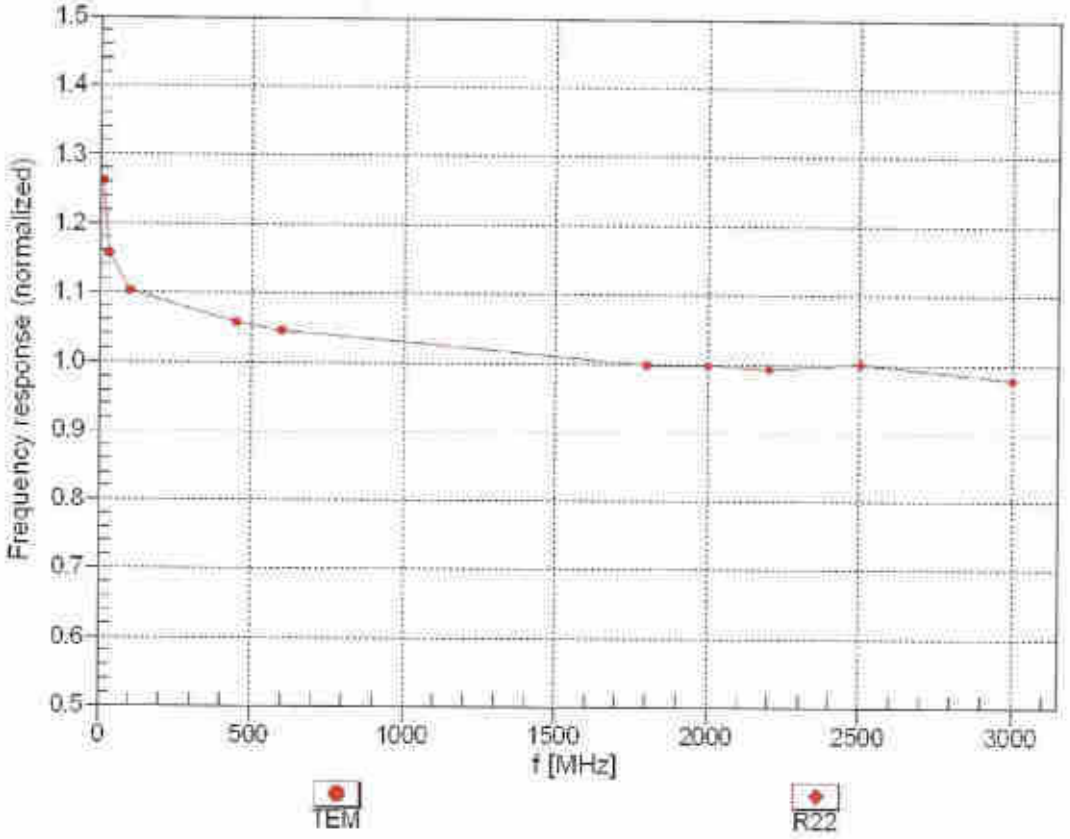
f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	41.9	0.89	10.23	10.23	10.23	0.65	0.80	± 12.0 %
835	41.5	0.90	10.16	10.16	10.16	0.48	0.88	± 12.0 %
900	41.5	0.97	9.89	9.89	9.89	0.52	0.80	± 12.0 %
1450	40.5	1.20	8.97	8.97	8.97	0.48	0.80	± 12.0 %
1750	40.1	1.37	8.63	8.63	8.63	0.34	0.80	± 12.0 %
1900	40.0	1.40	8.33	8.33	8.33	0.29	0.80	± 12.0 %
2000	40.0	1.40	8.30	8.30	8.30	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.89	7.89	7.89	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.74	7.74	7.74	0.33	0.80	± 12.0 %
2600	39.0	1.96	7.48	7.48	7.48	0.38	0.80	± 12.0 %
3500	37.9	2.91	7.15	7.15	7.15	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.92	6.92	6.92	0.30	1.35	± 14.0 %
5250	35.9	4.71	5.37	5.37	5.37	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.87	4.87	4.87	0.40	1.80	± 14.0 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

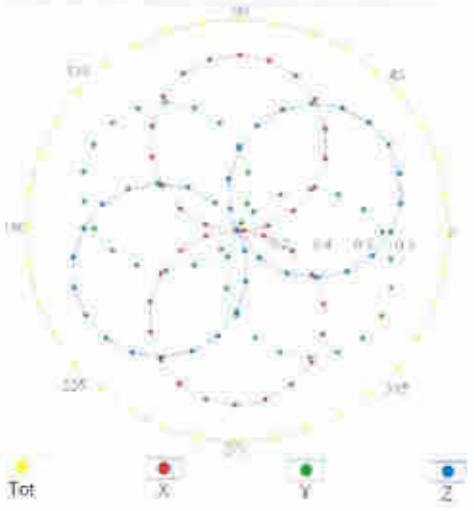
Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)



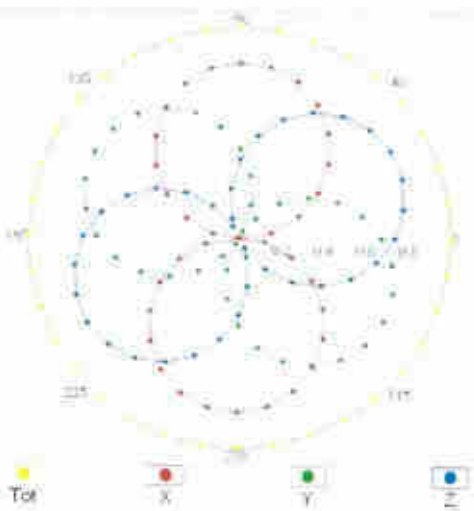
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

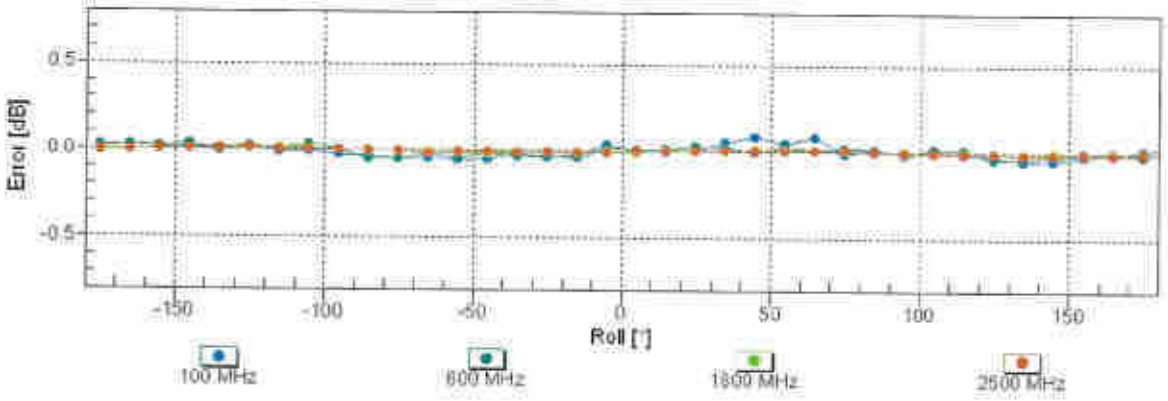
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22

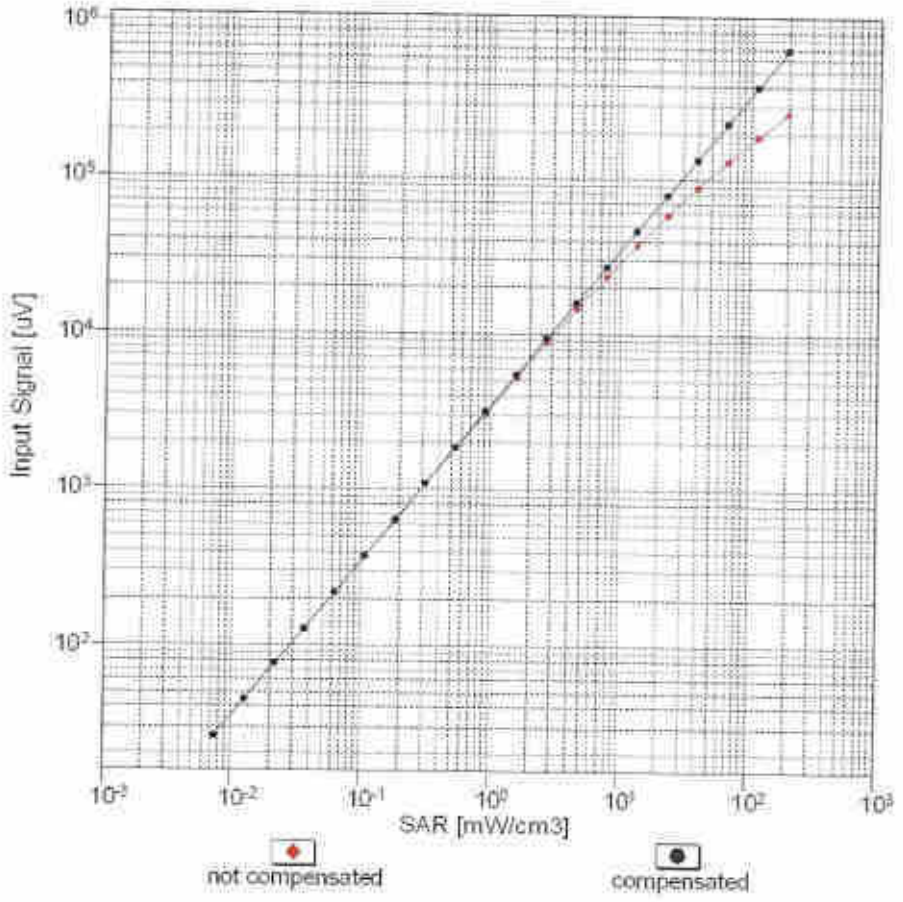


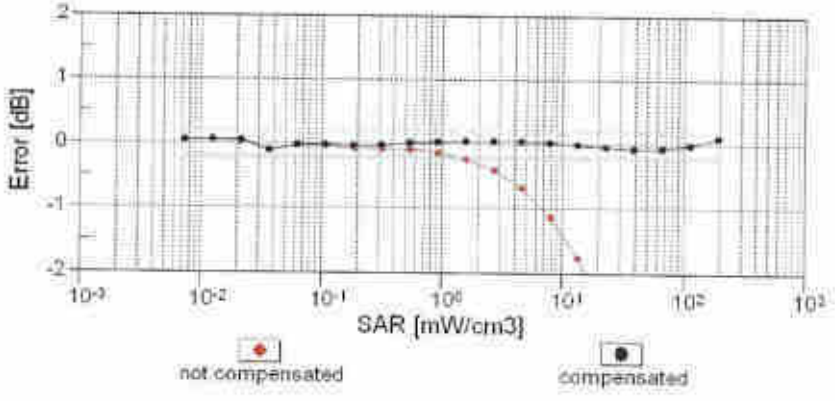


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR$_{head}$)

(TEM cell , f_{eval}= 1900 MHz)

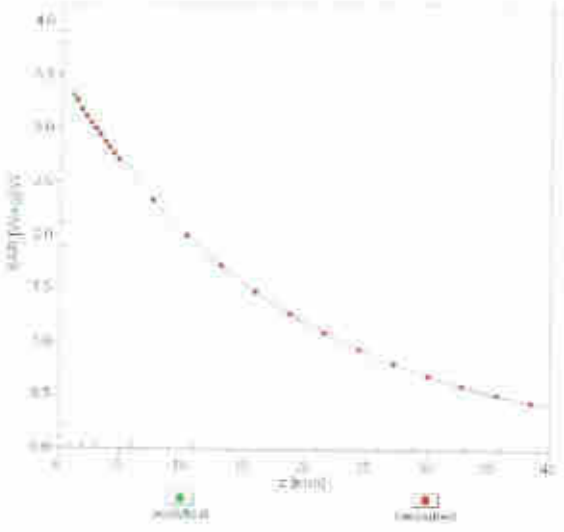




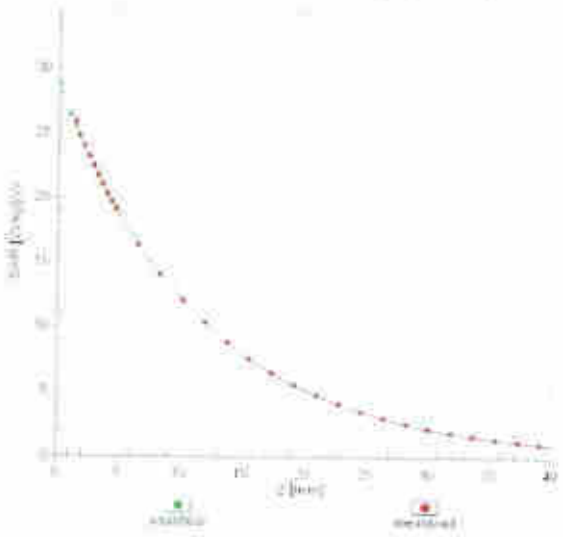
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

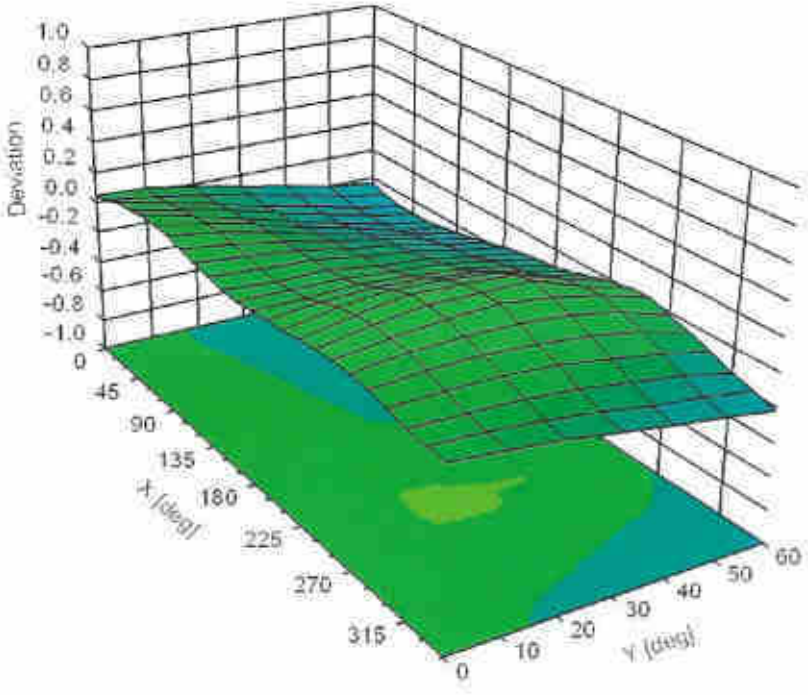


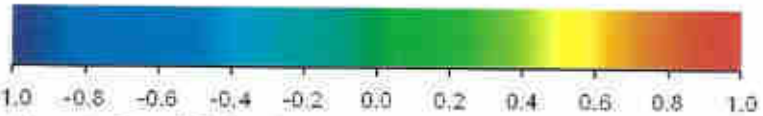
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc[E] (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %

10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	± 9.6 %

10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %

10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %

10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	± 9.6 %

10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	± 9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	± 9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	± 9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	± 9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	± 9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	± 9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	± 9.6 %
10767	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10776	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10780	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %

10782	AAB	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAB	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %

10824	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAB	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %

10870	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %

[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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Client **Sporton** **Certificate No: Z20-60181**

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN : 3279
Calibration Procedure(s)	FF-Z11-004-01 Calibration Procedures for Dosimetric E-field Probes
Calibration date:	June 02, 2020

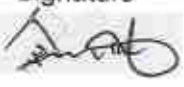
This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	18-Jun-19(CTTL, No.J19X05125)	Jun-20
Power sensor NRP-Z91	101547	18-Jun-19(CTTL, No.J19X05125)	Jun-20
Power sensor NRP-Z91	101548	18-Jun-19(CTTL, No.J19X05125)	Jun-20
Reference 10dBAttenuator	18N50W-10dB	10-Feb-20(CTTL, No.J20X00525)	Feb-22
Reference 20dBAttenuator	18N50W-20dB	10-Feb-20(CTTL, No.J20X00526)	Feb-22
Reference Probe EX3DV4	SN 3617	30-Jan-20(SPEAG, No.EX3-3617_Jan20/2)	Jan-21
DAE4	SN 1556	4-Feb-20(SPEAG, No.DAE4-1556_Feb20)	Feb-21

Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	18-Jun-19(CTTL, No.J19X05127)	Jun-20
Network Analyzer E5071C	MY46110673	10-Feb-20(CTTL, No.J20X00515)	Feb-21

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: June 04, 2020

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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i θ=0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below ConvF).
- *NORM(f)x,y,z = NORMx,y,z* frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- *Ax,y,z; Bx,y,z; Cx,y,z;VRx,y,z:*A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

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DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (*k*=2)
Norm(μV/(V/m)²)[A]	1.32	1.39	1.31	±10.0%
DCP(mV)[B]	104.2	106.6	106.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (*k*=2)
0	CW	X	0.0	0.0	1.0	0.00	264.4	±2.2%
		Y	0.0	0.0	1.0		276.5	
		Z	0.0	0.0	1.0		268.2	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor *k*=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz][C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unct. (k=2)
750	41.9	0.89	6.44	6.44	6.44	0.40	1.40	±12.1%
835	41.5	0.90	6.25	6.25	6.25	0.43	1.48	±12.1%
1750	40.1	1.37	5.40	5.40	5.40	0.75	1.19	±12.1%
1900	40.0	1.40	5.16	5.16	5.16	0.69	1.25	±12.1%
2000	40.0	1.40	5.13	5.13	5.13	0.63	1.31	±12.1%
2300	39.5	1.67	4.92	4.92	4.92	0.90	1.10	±12.1%
2450	39.2	1.80	4.71	4.71	4.71	0.90	1.16	±12.1%
2600	39.0	1.96	4.54	4.54	4.54	0.90	1.15	±12.1%

[C] Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequency below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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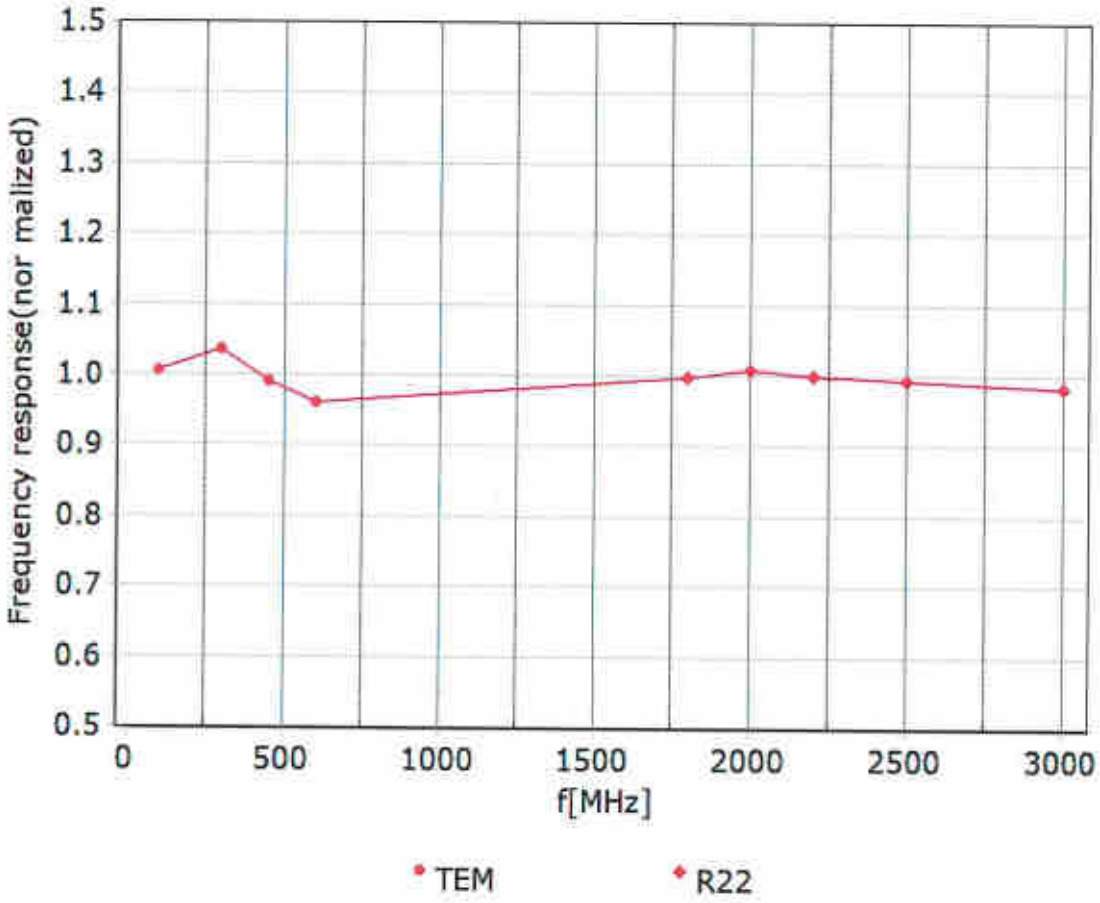
Frequency Response of E-Field
(TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (*k*=2)

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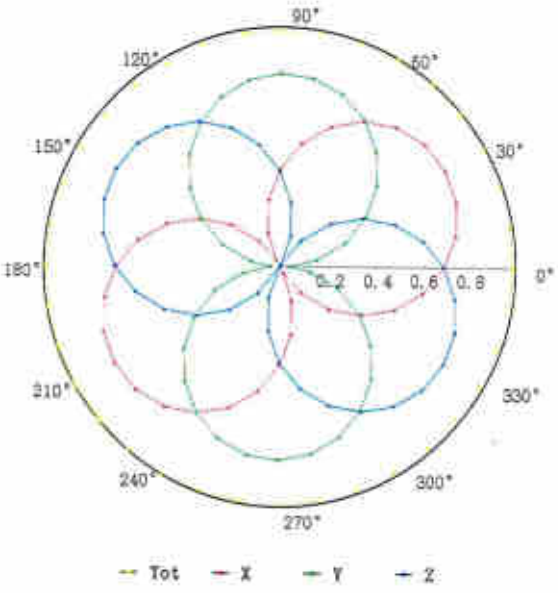
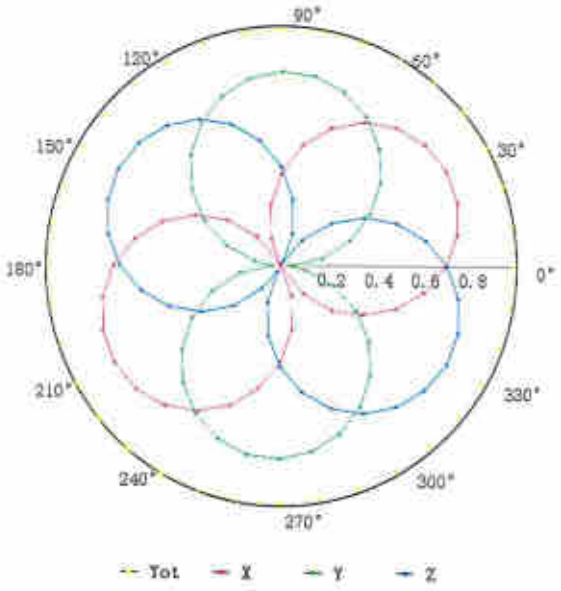
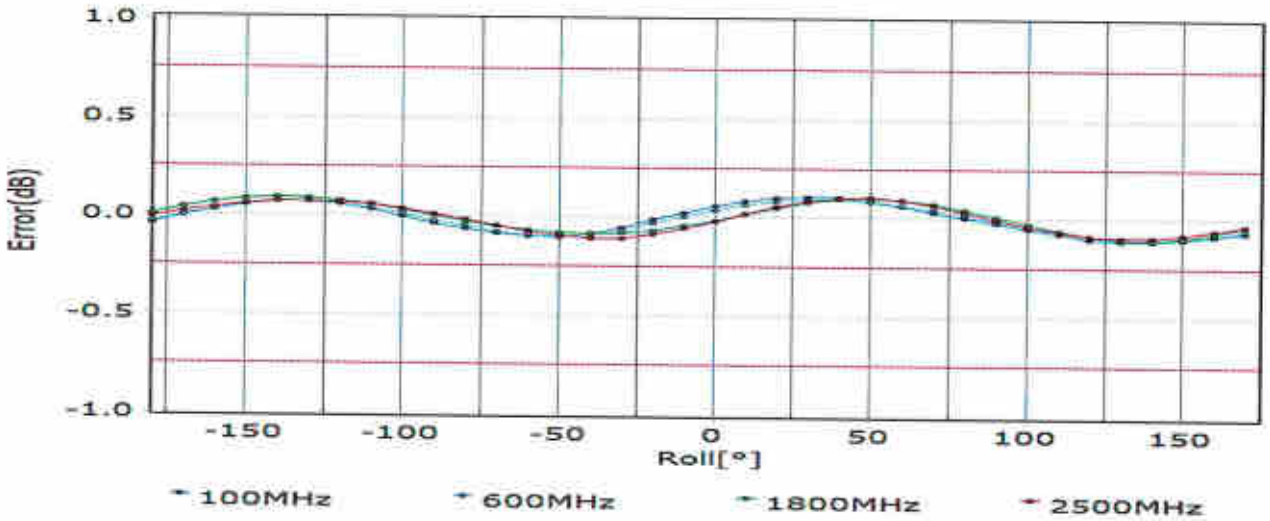
Receiving Pattern (Φ), θ=0°

f=600 MHz, TEM



f=1800 MHz, R22





Uncertainty of Axial Isotropy Assessment: ±1.2% (k=2)

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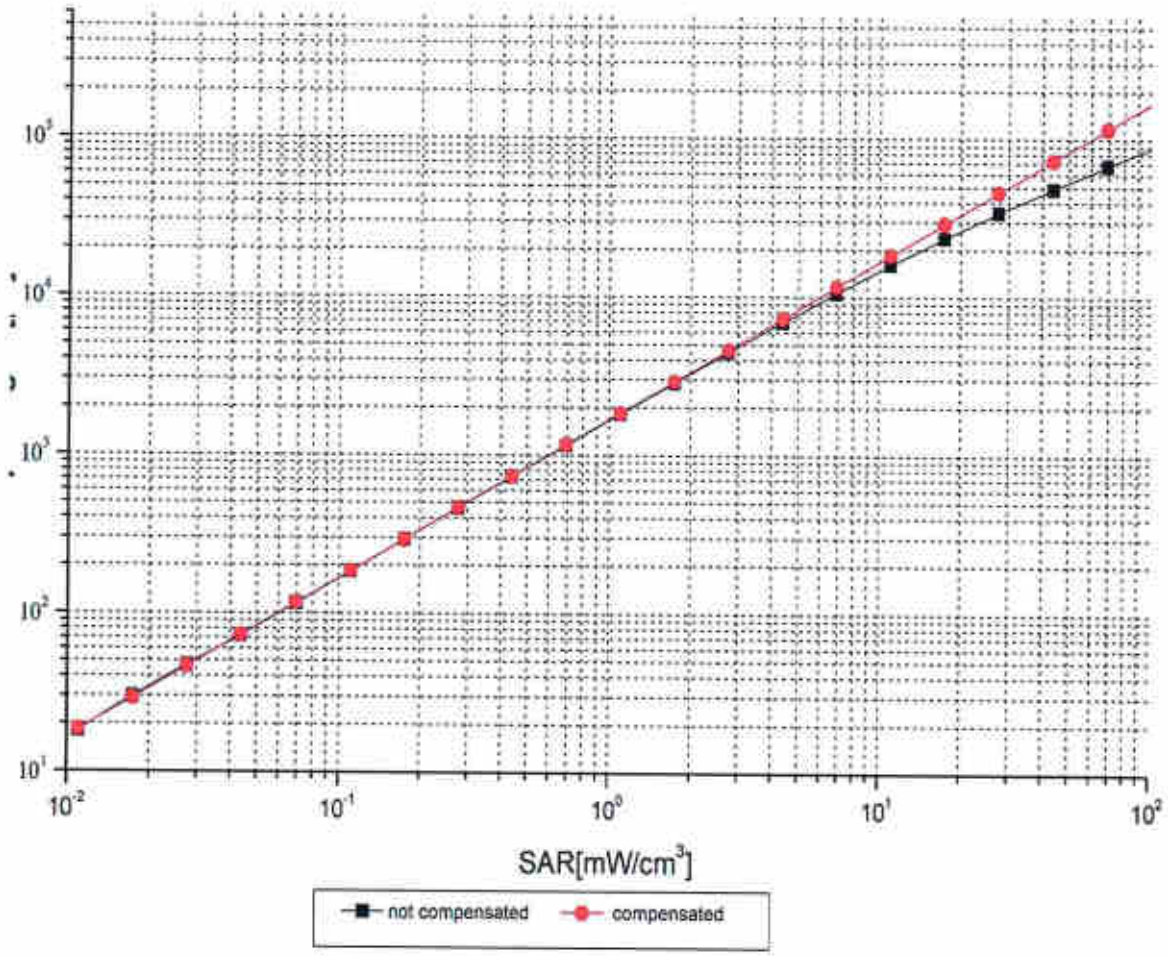
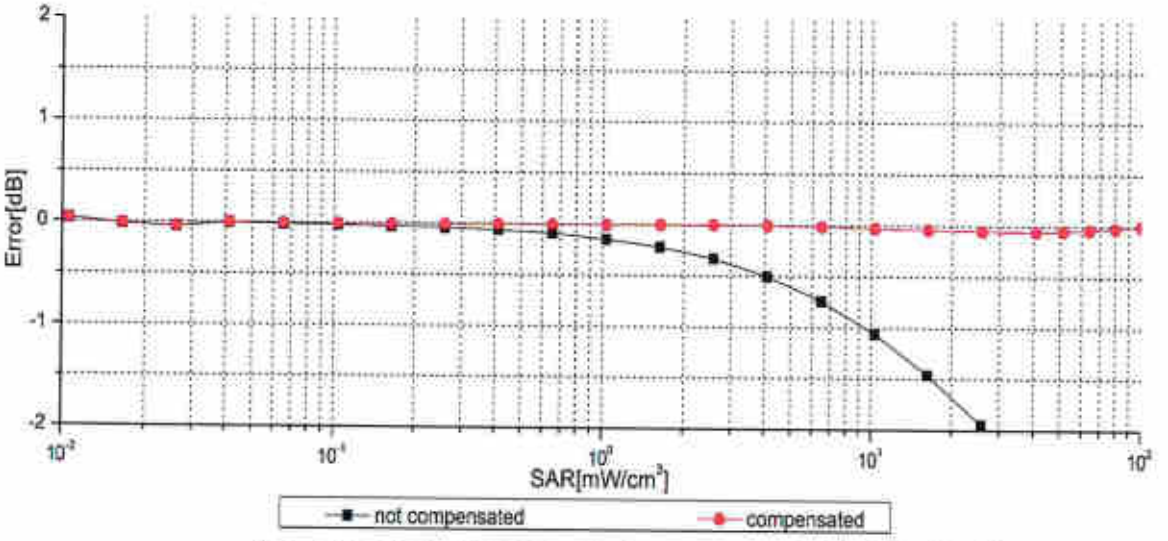
Dynamic Range f(SAR_{head})
(TEM cell, f = 900 MHz)





Uncertainty of Linearity Assessment: ±0.9% (*k*=2)

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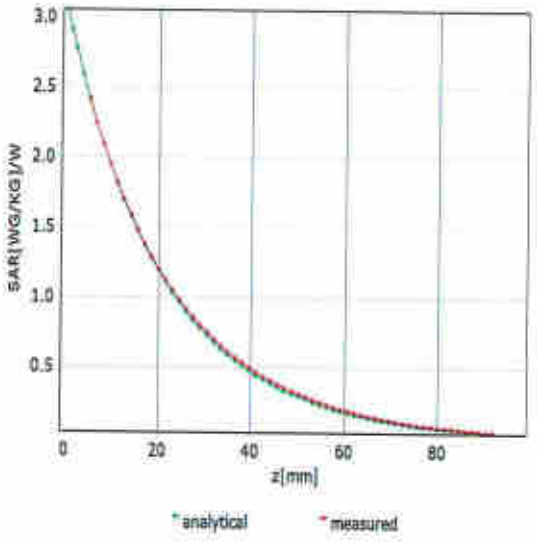
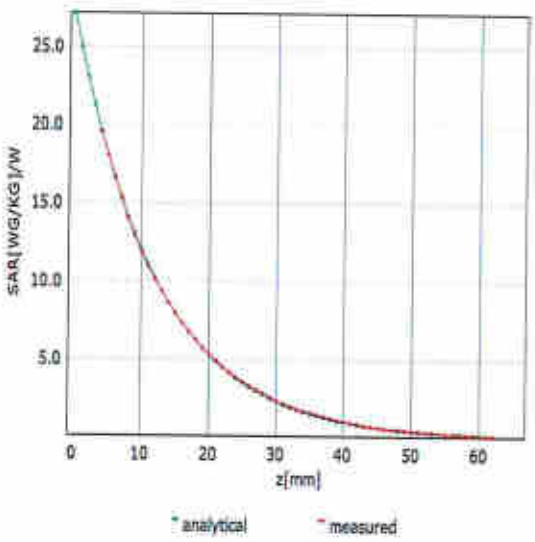
Conversion Factor Assessment

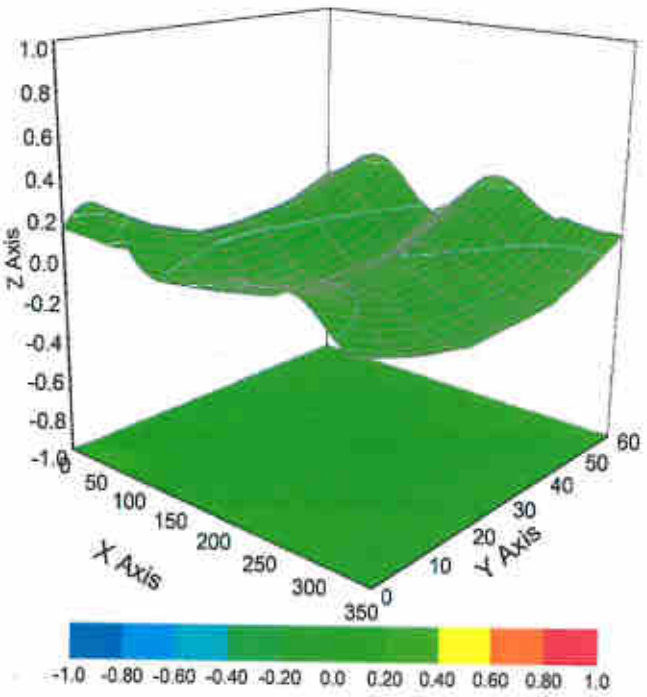
f=750 MHz,WGLS R9(H_convF)



f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (*k*=2)

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DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	170.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	4mm
Probe Tip to Sensor X Calibration Point	2mm
Probe Tip to Sensor Y Calibration Point	2mm
Probe Tip to Sensor Z Calibration Point	2mm
Recommended Measurement Distance from Surface	3mm

Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

Full Power Mode for ANT1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.48	32.50	32.51	33.50	23.48	23.50	23.51	24.50
GPRS 1 Tx slot	32.47	32.49	32.50	33.50	23.47	23.49	23.50	24.50
GPRS 2 Tx slots	29.77	29.51	29.36	30.50	23.77	23.51	23.36	24.50
GPRS 3 Tx slots	28.45	28.46	28.03	29.00	24.19	24.20	23.77	24.74
GPRS 4 Tx slots	26.36	26.30	26.32	27.50	23.36	23.30	23.32	24.50
EDGE 1 Tx slot	25.46	25.38	25.39	26.50	16.46	16.38	16.39	17.50
EDGE 2 Tx slots	23.96	23.88	23.97	24.50	17.96	17.88	17.97	18.50
EDGE 3 Tx slots	22.77	22.71	22.71	23.50	18.51	18.45	18.45	19.24
EDGE 4 Tx slots	20.91	20.98	20.82	21.50	17.91	17.98	17.82	18.50

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.43	29.60	29.81	30.50	20.43	20.60	20.81	21.50
GPRS 1 Tx slot	29.42	29.59	29.80	30.50	20.42	20.59	20.80	21.50
GPRS 2 Tx slots	26.75	27.11	27.15	28.00	20.75	21.11	21.15	22.00
GPRS 3 Tx slots	25.64	26.08	26.07	27.00	21.38	21.82	21.81	22.74
GPRS 4 Tx slots	23.76	23.96	24.06	25.00	20.76	20.96	21.06	22.00
EDGE 1 Tx slot	24.79	24.91	25.02	26.00	15.79	15.91	16.02	17.00
EDGE 2 Tx slots	23.28	23.53	23.60	24.50	17.28	17.53	17.60	18.50
EDGE 3 Tx slots	22.12	22.40	22.45	23.50	17.86	18.14	18.19	19.24
EDGE 4 Tx slots	20.57	20.43	20.45	21.50	17.57	17.43	17.45	18.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		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	22.87	22.92	22.85	24.00	22.83	23.10	23.05	24.00	22.57	22.58	22.48	24.00
3GPP Rel 99	RMC 12.2Kbps	22.89	22.94	22.87	24.00	22.85	23.12	23.07	24.00	22.59	22.60	22.51	24.00
3GPP Rel 6	HSDPA Subtest-1	21.96	21.98	21.96	23.00	21.88	22.19	22.12	23.00	21.61	21.55	21.47	23.00
3GPP Rel 6	HSDPA Subtest-2	21.98	22.00	21.95	23.00	21.90	22.14	22.12	23.00	21.62	21.53	21.46	23.00
3GPP Rel 6	HSDPA Subtest-3	21.51	21.51	21.45	22.50	21.42	21.69	21.66	22.50	21.10	21.05	20.96	22.50
3GPP Rel 6	HSDPA Subtest-4	21.51	21.45	21.47	22.50	21.39	21.65	21.66	22.50	21.08	21.05	20.92	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.76	21.78	21.76	23.00	21.68	21.99	21.92	23.00	21.90	21.95	21.97	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.78	21.80	21.75	23.00	21.70	21.94	21.92	23.00	21.85	21.96	21.95	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.31	21.31	21.25	22.50	21.22	21.49	21.46	22.50	21.33	21.49	21.36	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.31	21.25	21.27	22.50	21.19	21.45	21.46	22.50	21.34	21.46	21.35	22.50
3GPP Rel 6	HSUPA Subtest-1	21.83	21.87	21.75	23.00	21.81	22.15	22.22	23.00	21.79	21.74	21.66	23.00
3GPP Rel 6	HSUPA Subtest-2	19.86	19.87	19.79	21.00	19.77	20.14	20.17	21.00	19.74	19.72	19.67	21.00
3GPP Rel 6	HSUPA Subtest-3	20.88	20.81	20.80	22.00	20.81	21.20	21.22	22.00	20.70	20.78	20.66	22.00
3GPP Rel 6	HSUPA Subtest-4	19.83	19.85	19.76	21.00	19.80	20.17	20.17	21.00	19.76	19.73	19.66	21.00
3GPP Rel 6	HSUPA Subtest-5	21.80	21.90	21.70	23.00	21.80	22.10	22.20	23.00	21.80	21.80	21.70	23.00

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	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.62	22.74	22.67		
20	QPSK	1	49	22.40	22.42	22.44	24	0
20	QPSK	1	99	22.65	22.36	22.66		
20	QPSK	50	0	21.59	21.60	21.56		
20	QPSK	50	24	21.54	21.50	21.53	23	1
20	QPSK	50	50	21.42	21.52	21.49		
20	QPSK	100	0	21.56	21.57	21.52		
20	16QAM	1	0	21.89	21.75	21.74		
20	16QAM	1	49	21.61	21.70	21.80	23	1
20	16QAM	1	99	21.41	21.68	21.54		
20	16QAM	50	0	20.53	20.55	20.57		
20	16QAM	50	24	20.54	20.48	20.52	22	2
20	16QAM	50	50	20.43	20.50	20.52		
20	16QAM	100	0	20.58	20.54	20.55		
20	64QAM	1	0	20.86	20.61	20.77		
20	64QAM	1	49	20.66	20.63	20.64	22	2
20	64QAM	1	99	20.45	20.58	20.48		
20	64QAM	50	0	19.67	19.63	19.66		
20	64QAM	50	24	19.66	19.59	19.63	21	3
20	64QAM	50	50	19.54	19.61	19.62		
20	64QAM	100	0	19.69	19.67	19.66		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.58	22.44	22.51		
15	QPSK	1	37	22.35	22.41	22.50	24	0
15	QPSK	1	74	22.30	22.43	22.25		
15	QPSK	36	0	21.54	21.50	21.57		
15	QPSK	36	20	21.51	21.55	21.50	23	1
15	QPSK	36	39	21.45	21.53	21.53		
15	QPSK	75	0	21.52	21.56	21.50		
15	16QAM	1	0	21.85	21.70	21.81		
15	16QAM	1	37	21.66	21.77	21.72	23	1
15	16QAM	1	74	21.65	21.70	21.55		
15	16QAM	36	0	20.51	20.47	20.49		
15	16QAM	36	20	20.53	20.55	20.45	22	2
15	16QAM	36	39	20.41	20.54	20.45		
15	16QAM	75	0	20.55	20.56	20.48		
15	64QAM	1	0	20.91	20.53	20.73		
15	64QAM	1	37	20.59	20.61	20.69	22	2
15	64QAM	1	74	20.43	20.65	20.44		
15	64QAM	36	0	19.65	19.61	19.63		
15	64QAM	36	20	19.65	19.68	19.57	21	3
15	64QAM	36	39	19.56	19.66	19.58		
15	64QAM	75	0	19.66	19.69	19.60		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.73	22.58	22.69		
10	QPSK	1	25	22.56	22.55	22.54	24	0
10	QPSK	1	49	22.44	22.54	22.40		
10	QPSK	25	0	21.73	21.66	21.70		
10	QPSK	25	12	21.67	21.67	21.63	23	1
10	QPSK	25	25	21.58	21.69	21.59		
10	QPSK	50	0	21.66	21.69	21.54		
10	16QAM	1	0	22.06	21.85	21.96		
10	16QAM	1	25	21.82	21.88	21.70	23	1
10	16QAM	1	49	21.73	21.82	21.72		
10	16QAM	25	0	20.77	20.68	20.70		
10	16QAM	25	12	20.72	20.63	20.65	22	2
10	16QAM	25	25	20.60	20.68	20.61		
10	16QAM	50	0	20.70	20.72	20.61		
10	64QAM	1	0	20.88	20.90	20.92		
10	64QAM	1	25	20.82	20.90	20.92	22	2
10	64QAM	1	49	20.75	20.88	20.75		
10	64QAM	25	0	19.84	19.75	19.70		
10	64QAM	25	12	19.79	19.77	19.72	21	3
10	64QAM	25	25	19.70	19.77	19.66		
10	64QAM	50	0	19.77	19.83	19.71		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.71	22.54	22.57		
5	QPSK	1	12	22.62	22.52	22.44	24	0
5	QPSK	1	24	22.45	22.47	22.34		
5	QPSK	12	0	21.76	21.65	21.64		
5	QPSK	12	7	21.70	21.68	21.59	23	1
5	QPSK	12	13	21.59	21.60	21.48		
5	QPSK	25	0	21.71	21.67	21.55		
5	16QAM	1	0	22.05	21.85	21.85		
5	16QAM	1	12	21.89	21.95	21.83	23	1
5	16QAM	1	24	21.77	21.90	21.73		
5	16QAM	12	0	20.75	20.68	20.66		
5	16QAM	12	7	20.75	20.70	20.64	22	2
5	16QAM	12	13	20.62	20.64	20.53		
5	16QAM	25	0	20.65	20.71	20.61		
5	64QAM	1	0	20.90	20.98	20.97		
5	64QAM	1	12	21.07	20.98	20.86	22	2
5	64QAM	1	24	20.92	20.94	20.79		
5	64QAM	12	0	19.86	19.78	19.75		
5	64QAM	12	7	19.81	19.77	19.68	21	3
5	64QAM	12	13	19.68	19.74	19.61		
5	64QAM	25	0	19.78	19.74	19.70		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.56	22.57	22.61		
3	QPSK	1	8	22.71	22.58	22.49	24	0
3	QPSK	1	14	22.54	22.52	22.32		
3	QPSK	8	0	21.87	21.67	21.63		
3	QPSK	8	4	21.81	21.70	21.58	23	1
3	QPSK	8	7	21.73	21.62	21.51		
3	QPSK	15	0	21.71	21.68	21.60		
3	16QAM	1	0	21.78	21.91	21.89		
3	16QAM	1	8	21.65	21.96	21.93	23	1
3	16QAM	1	14	21.90	21.76	21.57		
3	16QAM	8	0	20.83	20.75	20.68		
3	16QAM	8	4	20.81	20.76	20.63	22	2
3	16QAM	8	7	20.70	20.70	20.55		
3	16QAM	15	0	20.75	20.71	20.54		
3	64QAM	1	0	20.68	20.95	20.91		
3	64QAM	1	8	21.05	20.95	20.84	22	2
3	64QAM	1	14	20.96	20.92	20.83		
3	64QAM	8	0	19.99	19.80	19.75		
3	64QAM	8	4	19.93	19.83	19.78	21	3
3	64QAM	8	7	19.77	19.75	19.64		
3	64QAM	15	0	19.86	19.78	19.65		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.64	22.56	22.44		
1.4	QPSK	1	3	22.68	22.55	22.44		
1.4	QPSK	1	5	22.57	22.47	22.39	24	0
1.4	QPSK	3	0	22.72	22.57	22.40		
1.4	QPSK	3	1	22.71	22.58	22.47		
1.4	QPSK	3	3	22.67	22.52	22.33		
1.4	QPSK	6	0	21.77	21.65	21.46	23	1
1.4	16QAM	1	0	22.02	21.85	21.76		
1.4	16QAM	1	3	22.02	21.86	21.83		
1.4	16QAM	1	5	21.83	21.75	21.65	23	1
1.4	16QAM	3	0	21.80	21.64	21.55		
1.4	16QAM	3	1	21.81	21.68	21.58		
1.4	16QAM	3	3	21.67	21.56	21.46		
1.4	16QAM	6	0	20.82	20.66	20.53	22	2
1.4	64QAM	1	0	21.08	21.05	20.79		
1.4	64QAM	1	3	20.88	20.93	20.86		
1.4	64QAM	1	5	21.03	20.76	20.59	22	2
1.4	64QAM	3	0	20.90	20.77	20.67		
1.4	64QAM	3	1	20.97	20.76	20.66		
1.4	64QAM	3	3	20.80	20.76	20.61		
1.4	64QAM	6	0	19.88	19.78	19.62	21	3

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)				1720	1732.5	1745		
20	QPSK	1	0	22.59	22.79	22.68		
20	QPSK	1	49	22.42	22.62	22.47	24	0
20	QPSK	1	99	22.53	22.46	22.37		
20	QPSK	50	0	21.58	21.74	21.73		
20	QPSK	50	24	21.66	21.70	21.68	23	1
20	QPSK	50	50	21.65	21.62	21.51		
20	QPSK	100	0	21.64	21.67	21.66		
20	16QAM	1	0	21.94	21.95	22.01		
20	16QAM	1	49	21.77	21.97	21.85	23	1
20	16QAM	1	99	21.76	21.90	21.70		
20	16QAM	50	0	20.58	20.73	20.75		
20	16QAM	50	24	20.67	20.72	20.69	22	2
20	16QAM	50	50	20.62	20.62	20.51		
20	16QAM	100	0	20.63	20.67	20.66		
20	64QAM	1	0	20.91	20.88	21.03		
20	64QAM	1	49	20.70	20.96	20.85	22	2
20	64QAM	1	99	20.82	20.96	20.79		
20	64QAM	50	0	19.71	19.82	19.83		
20	64QAM	50	24	19.76	19.84	19.80	21	3
20	64QAM	50	50	19.73	19.80	19.61		
20	64QAM	100	0	19.75	19.81	19.78		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.50	22.62	22.59		
15	QPSK	1	37	22.51	22.62	22.46	24	0
15	QPSK	1	74	22.46	22.52	22.36		
15	QPSK	36	0	21.52	21.69	21.65		
15	QPSK	36	20	21.60	21.71	21.61	23	1
15	QPSK	36	39	21.56	21.60	21.45		
15	QPSK	75	0	21.57	21.64	21.60		
15	16QAM	1	0	21.80	21.89	21.93		
15	16QAM	1	37	21.70	21.88	21.82	23	1
15	16QAM	1	74	21.73	21.92	21.69		
15	16QAM	36	0	20.54	20.69	20.66		
15	16QAM	36	20	20.62	20.70	20.63	22	2
15	16QAM	36	39	20.56	20.67	20.50		
15	16QAM	75	0	20.62	20.66	20.63		
15	64QAM	1	0	20.89	20.92	20.93		
15	64QAM	1	37	20.65	20.95	20.76	22	2
15	64QAM	1	74	20.50	20.94	20.69		
15	64QAM	36	0	19.67	19.83	19.82		
15	64QAM	36	20	19.74	19.82	19.76	21	3
15	64QAM	36	39	19.69	19.74	19.62		
15	64QAM	75	0	19.69	19.78	19.74		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.61	22.78	22.67		
10	QPSK	1	25	22.56	22.76	22.64	24	0
10	QPSK	1	49	22.56	22.69	22.52		
10	QPSK	25	0	21.70	21.83	21.76		
10	QPSK	25	12	21.70	21.83	21.77	23	1
10	QPSK	25	25	21.65	21.78	21.71		
10	QPSK	50	0	21.69	21.81	21.72		
10	16QAM	1	0	21.94	22.00	21.93		
10	16QAM	1	25	21.77	21.99	21.82	23	1
10	16QAM	1	49	21.74	22.06	21.85		
10	16QAM	25	0	20.73	20.86	20.80		
10	16QAM	25	12	20.75	20.85	20.79	22	2
10	16QAM	25	25	20.72	20.78	20.71		
10	16QAM	50	0	20.74	20.80	20.73		
10	64QAM	1	0	20.92	21.10	21.05		
10	64QAM	1	25	20.88	21.08	20.95	22	2
10	64QAM	1	49	20.94	21.07	20.91		
10	64QAM	25	0	19.82	19.95	19.86		
10	64QAM	25	12	19.84	19.95	19.93	21	3
10	64QAM	25	25	19.81	19.95	19.84		
10	64QAM	50	0	19.80	19.92	19.87		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.67	22.77	22.67		
5	QPSK	1	12	22.58	22.67	22.63	24	0
5	QPSK	1	24	22.58	22.73	22.63		
5	QPSK	12	0	21.71	21.82	21.72		
5	QPSK	12	7	21.69	21.86	21.70	23	1
5	QPSK	12	13	21.68	21.82	21.70		
5	QPSK	25	0	21.69	21.80	21.69		
5	16QAM	1	0	21.96	22.11	21.96		
5	16QAM	1	12	21.87	22.07	21.95	23	1
5	16QAM	1	24	21.99	22.05	21.90		
5	16QAM	12	0	20.89	20.84	20.69		
5	16QAM	12	7	20.75	20.86	20.76	22	2
5	16QAM	12	13	20.69	20.81	20.72		
5	16QAM	25	0	20.71	20.83	20.73		
5	64QAM	1	0	20.96	21.08	21.03		
5	64QAM	1	12	20.99	21.10	21.00	22	2
5	64QAM	1	24	20.99	20.79	20.90		
5	64QAM	12	0	19.81	19.93	19.85		
5	64QAM	12	7	19.83	19.97	19.83	21	3
5	64QAM	12	13	19.79	19.93	19.82		
5	64QAM	25	0	19.81	19.94	19.81		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.59	22.76	22.64		
3	QPSK	1	8	22.61	22.56	22.65	24	0
3	QPSK	1	14	22.55	22.70	22.60		
3	QPSK	8	0	21.68	21.83	21.70		
3	QPSK	8	4	21.69	21.83	21.72	23	1
3	QPSK	8	7	21.63	21.79	21.71		
3	QPSK	15	0	21.70	21.79	21.66		
3	16QAM	1	0	22.00	22.07	21.91		
3	16QAM	1	8	21.99	22.20	22.02	23	1
3	16QAM	1	14	21.89	22.07	21.90		
3	16QAM	8	0	20.73	20.90	20.73		
3	16QAM	8	4	20.79	20.89	20.74	22	2
3	16QAM	8	7	20.71	20.89	20.71		
3	16QAM	15	0	20.73	20.84	20.71		
3	64QAM	1	0	20.93	20.67	20.97		
3	64QAM	1	8	20.95	20.68	21.03	22	2
3	64QAM	1	14	20.95	21.08	21.01		
3	64QAM	8	0	19.82	19.99	19.81		
3	64QAM	8	4	19.84	20.01	19.89	21	3
3	64QAM	8	7	19.78	19.96	19.86		
3	64QAM	15	0	19.81	19.93	19.82		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.52	22.63	22.52		
1.4	QPSK	1	3	22.54	22.77	22.56		
1.4	QPSK	1	5	22.50	22.68	22.51	24	0
1.4	QPSK	3	0	22.48	22.62	22.54		
1.4	QPSK	3	1	22.53	22.77	22.57		
1.4	QPSK	3	3	22.50	22.72	22.55		
1.4	QPSK	6	0	21.58	21.74	21.64	23	1
1.4	16QAM	1	0	21.75	22.01	21.78		
1.4	16QAM	1	3	21.89	22.09	21.91		
1.4	16QAM	1	5	21.70	22.03	21.80	23	1
1.4	16QAM	3	0	21.61	21.79	21.59		
1.4	16QAM	3	1	21.70	21.83	21.68		
1.4	16QAM	3	3	21.56	21.81	21.62		
1.4	16QAM	6	0	20.63	20.82	20.67	22	2
1.4	64QAM	1	0	20.77	20.93	20.79		
1.4	64QAM	1	3	20.85	20.88	20.95		
1.4	64QAM	1	5	20.85	21.00	20.92	22	2
1.4	64QAM	3	0	20.83	20.94	20.77		
1.4	64QAM	3	1	20.79	20.96	20.74		
1.4	64QAM	3	3	20.71	20.97	20.79		
1.4	64QAM	6	0	19.72	19.87	19.74	21	3

Band 5 (Celluar Band) Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.43	22.48	22.47		
10	QPSK	1	25	22.25	22.34	22.43	24	0
10	QPSK	1	49	22.24	22.41	22.34		
10	QPSK	25	0	21.37	21.26	21.24		
10	QPSK	25	12	21.45	21.37	21.24	23	1
10	QPSK	25	25	21.39	21.35	21.22		
10	QPSK	50	0	21.43	21.37	21.18		
10	16QAM	1	0	21.56	21.49	21.52		
10	16QAM	1	25	21.48	21.47	21.41	23	1
10	16QAM	1	49	21.52	21.53	21.41		
10	16QAM	25	0	20.38	20.32	20.26		
10	16QAM	25	12	20.49	20.35	20.27	22	2
10	16QAM	25	25	20.42	20.35	20.25		
10	16QAM	50	0	20.44	20.38	20.25		
10	64QAM	1	0	20.59	20.52	20.49		
10	64QAM	1	25	20.57	20.48	20.46	22	2
10	64QAM	1	49	20.54	20.45	20.43		
10	64QAM	25	0	19.48	19.42	19.31		
10	64QAM	25	12	19.59	19.52	19.33	21	3
10	64QAM	25	25	19.49	19.41	19.42		
10	64QAM	50	0	19.49	19.47	19.32		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.47	22.32	22.25		
5	QPSK	1	12	22.38	22.28	22.29	24	0
5	QPSK	1	24	22.38	22.30	22.19		
5	QPSK	12	0	21.52	21.37	21.32		
5	QPSK	12	7	21.52	21.43	21.35	23	1
5	QPSK	12	13	21.47	21.45	21.35		
5	QPSK	25	0	21.49	21.44	21.31		
5	16QAM	1	0	21.75	21.62	21.49		
5	16QAM	1	12	21.66	21.58	21.49	23	1
5	16QAM	1	24	21.71	21.73	21.53		
5	16QAM	12	0	20.52	20.43	20.31		
5	16QAM	12	7	20.53	20.43	20.33	22	2
5	16QAM	12	13	20.52	20.45	20.31		
5	16QAM	25	0	20.52	20.41	20.31		
5	64QAM	1	0	20.80	20.63	20.61		
5	64QAM	1	12	20.69	20.60	20.59	22	2
5	64QAM	1	24	20.75	20.70	20.57		
5	64QAM	12	0	19.64	19.50	19.43		
5	64QAM	12	7	19.61	19.55	19.46	21	3
5	64QAM	12	13	19.61	19.52	19.48		
5	64QAM	25	0	19.65	19.56	19.41		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.47	22.26	22.26		
3	QPSK	1	8	22.43	22.33	22.26	24	0
3	QPSK	1	14	22.38	22.31	22.18		
3	QPSK	8	0	21.53	21.37	21.29		
3	QPSK	8	4	21.51	21.41	21.35	23	1
3	QPSK	8	7	21.51	21.41	21.39		
3	QPSK	15	0	21.49	21.40	21.30		
3	16QAM	1	0	21.78	21.60	21.52		
3	16QAM	1	8	21.82	21.66	21.62	23	1
3	16QAM	1	14	21.70	21.69	21.64		
3	16QAM	8	0	20.55	20.40	20.34		
3	16QAM	8	4	20.55	20.45	20.38	22	2
3	16QAM	8	7	20.51	20.46	20.35		
3	16QAM	15	0	20.48	20.46	20.31		
3	64QAM	1	0	20.78	20.59	20.47		
3	64QAM	1	8	20.82	20.65	20.67	22	2
3	64QAM	1	14	20.73	20.68	20.59		
3	64QAM	8	0	19.60	19.46	19.44		
3	64QAM	8	4	19.65	19.57	19.47	21	3
3	64QAM	8	7	19.56	19.55	19.46		
3	64QAM	15	0	19.60	19.51	19.37		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.37	22.26	22.24		
1.4	QPSK	1	3	22.39	22.30	22.21		
1.4	QPSK	1	5	22.32	22.24	22.12	24	0
1.4	QPSK	3	0	22.37	22.17	22.23		
1.4	QPSK	3	1	22.39	22.33	22.23		
1.4	QPSK	3	3	22.33	22.26	22.19		
1.4	QPSK	6	0	21.47	21.34	21.29	23	1
1.4	16QAM	1	0	21.63	21.51	21.47		
1.4	16QAM	1	3	21.72	21.57	21.51		
1.4	16QAM	1	5	21.67	21.59	21.54	23	1
1.4	16QAM	3	0	21.45	21.30	21.28		
1.4	16QAM	3	1	21.47	21.41	21.34		
1.4	16QAM	3	3	21.41	21.33	21.29		
1.4	16QAM	6	0	20.53	20.44	20.37	22	2
1.4	64QAM	1	0	20.78	20.50	20.59		
1.4	64QAM	1	3	20.80	20.57	20.63		
1.4	64QAM	1	5	20.74	20.52	20.56	22	2
1.4	64QAM	3	0	20.58	20.48	20.45		
1.4	64QAM	3	1	20.65	20.57	20.41		
1.4	64QAM	3	3	20.58	20.50	20.44		
1.4	64QAM	6	0	19.59	19.55	19.40	21	3

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	22.65	22.83	22.76		
20	QPSK	1	49	22.53	22.53	22.56	24	0
20	QPSK	1	99	22.64	22.56	22.65		
20	QPSK	50	0	21.72	21.80	21.75		
20	QPSK	50	24	21.79	21.66	21.55	23	1
20	QPSK	50	50	21.77	21.65	21.47		
20	QPSK	100	0	21.76	21.77	21.54		
20	16QAM	1	0	21.84	21.72	21.63		
20	16QAM	1	49	21.91	21.82	21.59	23	1
20	16QAM	1	99	22.00	21.90	21.70		
20	16QAM	50	0	20.72	20.63	20.52		
20	16QAM	50	24	20.77	20.67	20.51	22	2
20	16QAM	50	50	20.79	20.68	20.43		
20	16QAM	100	0	20.79	20.71	20.56		
20	64QAM	1	0	20.80	20.75	20.60		
20	64QAM	1	49	20.86	20.79	20.61	22	2
20	64QAM	1	99	20.99	20.86	20.67		
20	64QAM	50	0	19.83	19.72	19.62		
20	64QAM	50	24	19.86	19.77	19.65	21	3
20	64QAM	50	50	19.89	19.83	19.59		
20	64QAM	100	0	19.89	19.77	19.64		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.59	22.53	22.27		
15	QPSK	1	37	22.63	22.55	22.37	24	0
15	QPSK	1	74	22.71	22.61	22.35		
15	QPSK	36	0	21.81	21.75	21.49		
15	QPSK	36	20	21.85	21.70	21.52	23	1
15	QPSK	36	39	21.82	21.69	21.45		
15	QPSK	75	0	21.84	21.71	21.52		
15	16QAM	1	0	21.90	21.86	21.65		
15	16QAM	1	37	21.98	21.91	21.61	23	1
15	16QAM	1	74	22.04	21.90	21.67		
15	16QAM	36	0	20.78	20.74	20.51		
15	16QAM	36	20	20.85	20.71	20.54	22	2
15	16QAM	36	39	20.82	20.70	20.45		
15	16QAM	75	0	20.84	20.71	20.51		
15	64QAM	1	0	20.83	20.88	20.62		
15	64QAM	1	37	20.87	20.91	20.55	22	2
15	64QAM	1	74	20.79	20.91	20.71		
15	64QAM	36	0	19.89	19.84	19.63		
15	64QAM	36	20	19.96	19.80	19.63	21	3
15	64QAM	36	39	19.95	19.78	19.55		
15	64QAM	75	0	19.94	19.84	19.68		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.81	22.72	22.48		
10	QPSK	1	25	22.82	22.80	22.46	24	0
10	QPSK	1	49	22.54	22.80	22.44		
10	QPSK	25	0	21.89	21.85	21.56		
10	QPSK	25	12	21.93	21.78	21.59	23	1
10	QPSK	25	25	21.90	21.79	21.56		
10	QPSK	50	0	21.92	21.77	21.54		
10	16QAM	1	0	22.01	22.09	21.72		
10	16QAM	1	25	22.10	22.02	21.82	23	1
10	16QAM	1	49	22.19	22.06	21.87		
10	16QAM	25	0	20.88	20.82	20.54		
10	16QAM	25	12	20.95	20.81	20.62	22	2
10	16QAM	25	25	20.91	20.75	20.56		
10	16QAM	50	0	20.91	20.78	20.57		
10	64QAM	1	0	20.99	21.04	20.74		
10	64QAM	1	25	21.10	21.03	20.79	22	2
10	64QAM	1	49	21.00	21.12	20.89		
10	64QAM	25	0	20.00	19.94	19.67		
10	64QAM	25	12	20.01	19.95	19.68	21	3
10	64QAM	25	25	20.01	19.82	19.67		
10	64QAM	50	0	20.00	19.90	19.69		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.56	22.54	22.53		
5	QPSK	1	12	22.67	22.55	22.57	24	0
5	QPSK	1	24	22.66	22.56	22.63		
5	QPSK	12	0	21.93	21.87	21.61		
5	QPSK	12	7	22.05	21.92	21.71	23	1
5	QPSK	12	13	22.08	21.91	21.73		
5	QPSK	25	0	22.00	21.84	21.69		
5	16QAM	1	0	22.20	22.19	21.78		
5	16QAM	1	12	22.24	22.19	21.90	23	1
5	16QAM	1	24	22.12	22.22	21.95		
5	16QAM	12	0	20.98	20.91	20.59		
5	16QAM	12	7	21.06	20.92	20.72	22	2
5	16QAM	12	13	21.09	20.97	20.73		
5	16QAM	25	0	21.04	20.87	20.66		
5	64QAM	1	0	21.29	21.22	20.91		
5	64QAM	1	12	21.32	21.20	20.89	22	2
5	64QAM	1	24	21.37	21.24	20.96		
5	64QAM	12	0	20.06	19.98	19.70		
5	64QAM	12	7	20.19	20.02	19.79	21	3
5	64QAM	12	13	20.18	20.08	19.82		
5	64QAM	25	0	20.15	19.99	19.79		

Band 12 (700MHz Low Band)
Part 27F(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				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.64	22.68	22.61		
10	QPSK	1	25	22.63	22.57	22.63	24	0
10	QPSK	1	49	22.62	22.62	22.58		
10	QPSK	25	0	21.64	21.75	21.65		
10	QPSK	25	12	21.72	21.65	21.71	23	1
10	QPSK	25	25	21.73	21.74	21.70		
10	QPSK	50	0	21.74	21.68	21.73		
10	16QAM	1	0	22.02	21.91	21.94		
10	16QAM	1	25	21.88	21.86	21.93	23	1
10	16QAM	1	49	21.89	21.99	21.91		
10	16QAM	25	0	20.72	20.71	20.66		
10	16QAM	25	12	20.74	20.68	20.74	22	2
10	16QAM	25	25	20.76	20.74	20.68		
10	16QAM	50	0	20.73	20.67	20.76		
10	64QAM	1	0	20.93	20.91	20.99		
10	64QAM	1	25	20.97	21.05	20.86	22	2
10	64QAM	1	49	20.92	20.97	20.96		
10	64QAM	25	0	19.72	19.80	19.74		
10	64QAM	25	12	19.80	19.80	19.89	21	3
10	64QAM	25	25	19.81	19.79	19.82		
10	64QAM	50	0	19.80	19.75	19.84		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.54	22.53	22.58		
5	QPSK	1	12	22.56	22.62	22.61	24	0
5	QPSK	1	24	22.66	22.65	22.62		
5	QPSK	12	0	21.72	21.68	21.66		
5	QPSK	12	7	21.71	21.68	21.72	23	1
5	QPSK	12	13	21.69	21.67	21.65		
5	QPSK	25	0	21.70	21.68	21.66		
5	16QAM	1	0	21.92	21.89	21.94		
5	16QAM	1	12	21.94	21.99	21.94	23	1
5	16QAM	1	24	21.99	22.01	21.94		
5	16QAM	12	0	20.70	20.68	20.67		
5	16QAM	12	7	20.73	20.70	20.75	22	2
5	16QAM	12	13	20.71	20.72	20.66		
5	16QAM	25	0	20.70	20.66	20.64		
5	64QAM	1	0	20.94	20.93	21.01		
5	64QAM	1	12	20.93	21.02	20.95	22	2
5	64QAM	1	24	21.04	21.07	20.93		
5	64QAM	12	0	19.82	19.77	19.74		
5	64QAM	12	7	19.83	19.78	19.82	21	3
5	64QAM	12	13	19.79	19.83	19.80		
5	64QAM	25	0	19.84	19.76	19.75		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.67	22.58	22.56		
3	QPSK	1	8	22.64	22.66	22.66	24	0
3	QPSK	1	14	22.63	22.62	22.57		
3	QPSK	8	0	21.73	21.67	21.65		
3	QPSK	8	4	21.74	21.74	21.68	23	1
3	QPSK	8	7	21.69	21.65	21.67		
3	QPSK	15	0	21.71	21.64	21.66		
3	16QAM	1	0	21.96	21.83	21.80		
3	16QAM	1	8	21.99	22.01	22.00	23	1
3	16QAM	1	14	21.96	21.96	21.90		
3	16QAM	8	0	20.81	20.73	20.69		
3	16QAM	8	4	20.77	20.78	20.78	22	2
3	16QAM	8	7	20.70	20.75	20.70		
3	16QAM	15	0	20.72	20.67	20.68		
3	64QAM	1	0	21.02	20.86	20.91		
3	64QAM	1	8	20.96	21.03	21.02	22	2
3	64QAM	1	14	20.98	21.10	20.90		
3	64QAM	8	0	19.88	19.79	19.78		
3	64QAM	8	4	19.87	19.86	19.81	21	3
3	64QAM	8	7	19.80	19.84	19.76		
3	64QAM	15	0	19.83	19.77	19.71		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.59	22.53	22.51		
1.4	QPSK	1	3	22.61	22.59	22.59		
1.4	QPSK	1	5	22.51	22.53	22.47	24	0
1.4	QPSK	3	0	22.60	22.51	22.55		
1.4	QPSK	3	1	22.65	22.55	22.60		
1.4	QPSK	3	3	22.58	22.55	22.53		
1.4	QPSK	6	0	21.64	21.57	21.57	23	1
1.4	16QAM	1	0	21.94	21.83	21.89		
1.4	16QAM	1	3	21.88	21.96	21.86		
1.4	16QAM	1	5	21.82	21.80	21.80	23	1
1.4	16QAM	3	0	21.70	21.61	21.67		
1.4	16QAM	3	1	21.70	21.68	21.68		
1.4	16QAM	3	3	21.66	21.64	21.52		
1.4	16QAM	6	0	20.72	20.69	20.63	22	2
1.4	64QAM	1	0	20.99	20.95	20.96		
1.4	64QAM	1	3	20.88	21.00	20.94		
1.4	64QAM	1	5	20.83	20.76	20.82	22	2
1.4	64QAM	3	0	20.86	20.72	20.82		
1.4	64QAM	3	1	20.89	20.85	20.83		
1.4	64QAM	3	3	20.81	20.76	20.66		
1.4	64QAM	6	0	19.80	19.72	19.74	21	3

Band 26 for FCC
(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				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.45	22.53	22.51		
15	QPSK	1	37	22.51	22.45	22.43	24	0
15	QPSK	1	74	22.34	22.44	22.43		
15	QPSK	36	0	21.26	21.30	21.11		
15	QPSK	36	20	21.29	21.20	21.07	23	1
15	QPSK	36	39	21.29	21.27	21.13		
15	QPSK	75	0	21.23	21.25	21.13		
15	16QAM	1	0	21.51	21.39	21.33		
15	16QAM	1	37	21.43	21.38	21.35	23	1
15	16QAM	1	74	21.40	21.39	21.21		
15	16QAM	36	0	20.27	20.22	20.13		
15	16QAM	36	20	20.32	20.20	20.09	22	2
15	16QAM	36	39	20.29	20.28	20.14		
15	16QAM	75	0	20.34	20.19	20.10		
15	64QAM	1	0	20.53	20.46	20.30		
15	64QAM	1	37	20.49	20.43	20.26	22	2
15	64QAM	1	74	20.43	20.33	20.20		
15	64QAM	36	0	19.40	19.31	19.21		
15	64QAM	36	20	19.40	19.33	19.19	21	3
15	64QAM	36	39	19.43	19.36	19.29		
15	64QAM	75	0	19.49	19.31	19.19		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.52	22.42	22.25		
10	QPSK	1	25	22.32	22.32	22.12	24	0
10	QPSK	1	49	22.34	22.26	22.04		
10	QPSK	25	0	21.46	21.34	21.22		
10	QPSK	25	12	21.50	21.32	21.20	23	1
10	QPSK	25	25	21.45	21.39	21.24		
10	QPSK	50	0	21.49	21.33	21.16		
10	16QAM	1	0	21.69	21.67	21.49		
10	16QAM	1	25	21.62	21.53	21.44	23	1
10	16QAM	1	49	21.62	21.56	21.37		
10	16QAM	25	0	20.49	20.34	20.26		
10	16QAM	25	12	20.50	20.34	20.23	22	2
10	16QAM	25	25	20.43	20.38	20.23		
10	16QAM	50	0	20.48	20.36	20.21		
10	64QAM	1	0	20.81	20.64	20.52		
10	64QAM	1	25	20.63	20.63	20.49	22	2
10	64QAM	1	49	20.68	20.54	20.41		
10	64QAM	25	0	19.63	19.47	19.30		
10	64QAM	25	12	19.57	19.43	19.34	21	3
10	64QAM	25	25	19.57	19.50	19.32		
10	64QAM	50	0	19.64	19.46	19.34		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.47	22.24	22.15		
5	QPSK	1	12	22.40	22.34	22.19	24	0
5	QPSK	1	24	22.42	22.33	22.14		
5	QPSK	12	0	21.50	21.36	21.23		
5	QPSK	12	7	21.50	21.43	21.22	23	1
5	QPSK	12	13	21.48	21.34	21.19		
5	QPSK	25	0	21.56	21.31	21.19		
5	16QAM	1	0	21.73	21.62	21.43		
5	16QAM	1	12	21.71	21.69	21.45	23	1
5	16QAM	1	24	21.71	21.61	21.46		
5	16QAM	12	0	20.57	20.34	20.23		
5	16QAM	12	7	20.55	20.42	20.27	22	2
5	16QAM	12	13	20.48	20.42	20.18		
5	16QAM	25	0	20.51	20.33	20.19		
5	64QAM	1	0	20.78	20.65	20.48		
5	64QAM	1	12	20.72	20.60	20.48	22	2
5	64QAM	1	24	20.73	20.64	20.46		
5	64QAM	12	0	19.62	19.43	19.33		
5	64QAM	12	7	19.64	19.52	19.34	21	3
5	64QAM	12	13	19.58	19.47	19.34		
5	64QAM	25	0	19.61	19.45	19.31		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.44	22.21	22.18		
3	QPSK	1	8	22.42	22.34	22.14	24	0
3	QPSK	1	14	22.38	22.28	22.08		
3	QPSK	8	0	21.51	21.31	21.19		
3	QPSK	8	4	21.52	21.40	21.18	23	1
3	QPSK	8	7	21.51	21.33	21.15		
3	QPSK	15	0	21.46	21.28	21.15		
3	16QAM	1	0	21.83	21.47	21.39		
3	16QAM	1	8	21.80	21.68	21.47	23	1
3	16QAM	1	14	21.75	21.63	21.39		
3	16QAM	8	0	20.56	20.35	20.25		
3	16QAM	8	4	20.59	20.43	20.25	22	2
3	16QAM	8	7	20.51	20.42	20.22		
3	16QAM	15	0	20.51	20.34	20.19		
3	64QAM	1	0	20.79	20.61	20.49		
3	64QAM	1	8	20.88	20.76	20.53	22	2
3	64QAM	1	14	20.76	20.62	20.51		
3	64QAM	8	0	19.69	19.47	19.31		
3	64QAM	8	4	19.73	19.48	19.28	21	3
3	64QAM	8	7	19.62	19.47	19.28		
3	64QAM	15	0	19.64	19.42	19.33		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.38	22.18	22.34		
1.4	QPSK	1	3	22.42	22.22	22.05		
1.4	QPSK	1	5	22.36	22.18	22.43	24	0
1.4	QPSK	3	0	22.40	22.20	22.01		
1.4	QPSK	3	1	22.44	22.21	22.04		
1.4	QPSK	3	3	22.34	22.20	22.02		
1.4	QPSK	6	0	21.44	21.19	21.06	23	1
1.4	16QAM	1	0	21.65	21.42	21.36		
1.4	16QAM	1	3	21.74	21.61	21.30		
1.4	16QAM	1	5	21.66	21.52	21.31	23	1
1.4	16QAM	3	0	21.47	21.25	21.08		
1.4	16QAM	3	1	21.54	21.30	21.09		
1.4	16QAM	3	3	21.42	21.27	21.10		
1.4	16QAM	6	0	20.54	20.31	20.14	22	2
1.4	64QAM	1	0	20.66	20.52	20.37		
1.4	64QAM	1	3	20.75	20.53	20.39		
1.4	64QAM	1	5	20.69	20.56	20.30	22	2
1.4	64QAM	3	0	20.65	20.43	20.23		
1.4	64QAM	3	1	20.64	20.44	20.28		
1.4	64QAM	3	3	20.58	20.41	20.17		
1.4	64QAM	6	0	19.59	19.33	19.20	21	3

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	22.15	22.35	22.23		
20	QPSK	1	49	22.16	22.21	22.32	24	0
20	QPSK	1	99	22.33	22.15	22.21		
20	QPSK	50	0	21.67	21.73	21.61		
20	QPSK	50	24	21.72	21.62	21.55	23	1
20	QPSK	50	50	21.66	21.63	21.58		
20	QPSK	100	0	21.69	21.70	21.51		
20	16QAM	1	0	21.97	21.91	21.97		
20	16QAM	1	49	21.90	21.92	21.83	23	1
20	16QAM	1	99	21.80	21.84	21.75		
20	16QAM	50	0	20.68	20.66	20.60		
20	16QAM	50	24	20.71	20.64	20.60	22	2
20	16QAM	50	50	20.67	20.64	20.59		
20	16QAM	100	0	20.69	20.60	20.58		
20	64QAM	1	0	20.94	20.94	20.96		
20	64QAM	1	49	20.80	20.84	20.81	22	2
20	64QAM	1	99	20.67	20.78	20.75		
20	64QAM	50	0	19.74	19.76	19.68		
20	64QAM	50	24	19.84	19.74	19.70	21	3
20	64QAM	50	50	19.79	19.75	19.73		
20	64QAM	100	0	19.83	19.70	19.69		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.25	22.24	22.32		
15	QPSK	1	37	22.14	22.13	22.32	24	0
15	QPSK	1	74	22.34	22.24	22.31		
15	QPSK	36	0	21.67	21.60	21.57		
15	QPSK	36	20	21.66	21.60	21.51	23	1
15	QPSK	36	39	21.63	21.63	21.56		
15	QPSK	75	0	21.66	21.59	21.48		
15	16QAM	1	0	21.83	21.88	21.95		
15	16QAM	1	37	21.87	21.84	21.84	23	1
15	16QAM	1	74	21.77	21.79	21.80		
15	16QAM	36	0	20.68	20.63	20.54		
15	16QAM	36	20	20.68	20.62	20.53	22	2
15	16QAM	36	39	20.63	20.65	20.57		
15	16QAM	75	0	20.66	20.61	20.53		
15	64QAM	1	0	20.87	20.99	20.91		
15	64QAM	1	37	20.76	20.89	20.82	22	2
15	64QAM	1	74	20.73	20.82	20.80		
15	64QAM	36	0	19.79	19.74	19.66		
15	64QAM	36	20	19.79	19.75	19.65	21	3
15	64QAM	36	39	19.75	19.76	19.69		
15	64QAM	75	0	19.76	19.70	19.63		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.26	22.24	22.21		
10	QPSK	1	25	22.20	22.17	22.07	24	0
10	QPSK	1	49	22.18	22.21	22.11		
10	QPSK	25	0	21.82	21.75	21.74		
10	QPSK	25	12	21.79	21.74	21.73	23	1
10	QPSK	25	25	21.78	21.78	21.70		
10	QPSK	50	0	21.79	21.72	21.73		
10	16QAM	1	0	22.09	22.07	21.98		
10	16QAM	1	25	21.90	21.98	21.87	23	1
10	16QAM	1	49	21.92	21.99	21.85		
10	16QAM	25	0	20.84	20.76	20.75		
10	16QAM	25	12	20.83	20.77	20.77	22	2
10	16QAM	25	25	20.78	20.80	20.71		
10	16QAM	50	0	20.79	20.77	20.76		
10	64QAM	1	0	21.09	21.09	20.99		
10	64QAM	1	25	20.88	21.00	20.95	22	2
10	64QAM	1	49	20.92	21.03	20.90		
10	64QAM	25	0	19.95	19.87	19.86		
10	64QAM	25	12	19.95	19.92	19.91	21	3
10	64QAM	25	25	19.88	19.91	19.83		
10	64QAM	50	0	19.92	19.87	19.84		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.23	22.16	22.16		
5	QPSK	1	12	22.20	22.21	22.15	24	0
5	QPSK	1	24	22.16	22.18	22.10		
5	QPSK	12	0	21.79	21.75	21.72		
5	QPSK	12	7	21.78	21.79	21.72	23	1
5	QPSK	12	13	21.79	21.77	21.66		
5	QPSK	25	0	21.76	21.73	21.68		
5	16QAM	1	0	22.03	22.04	21.95		
5	16QAM	1	12	22.06	21.97	21.87	23	1
5	16QAM	1	24	22.06	22.03	21.96		
5	16QAM	12	0	20.80	20.76	20.73		
5	16QAM	12	7	20.80	20.82	20.75	22	2
5	16QAM	12	13	20.82	20.80	20.69		
5	16QAM	25	0	20.77	20.72	20.72		
5	64QAM	1	0	20.88	21.07	21.05		
5	64QAM	1	12	21.08	21.04	20.99	22	2
5	64QAM	1	24	21.07	21.10	20.93		
5	64QAM	12	0	19.91	19.87	19.82		
5	64QAM	12	7	19.90	19.92	19.82	21	3
5	64QAM	12	13	19.93	19.92	19.82		
5	64QAM	25	0	19.91	19.87	19.83		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.17	22.23	22.11		
3	QPSK	1	8	22.22	22.27	22.16	24	0
3	QPSK	1	14	22.14	22.18	22.05		
3	QPSK	8	0	21.76	21.76	21.68		
3	QPSK	8	4	21.78	21.79	21.70	23	1
3	QPSK	8	7	21.77	21.72	21.62		
3	QPSK	15	0	21.78	21.77	21.64		
3	16QAM	1	0	22.09	22.00	21.86		
3	16QAM	1	8	22.13	22.06	22.01	23	1
3	16QAM	1	14	21.93	21.92	21.85		
3	16QAM	8	0	20.82	20.86	20.75		
3	16QAM	8	4	20.86	20.86	20.76	22	2
3	16QAM	8	7	20.81	20.83	20.71		
3	16QAM	15	0	20.78	20.79	20.69		
3	64QAM	1	0	21.12	21.06	21.02		
3	64QAM	1	8	20.88	20.79	20.98	22	2
3	64QAM	1	14	21.05	21.07	20.97		
3	64QAM	8	0	19.94	19.91	19.82		
3	64QAM	8	4	19.95	19.94	19.82	21	3
3	64QAM	8	7	19.92	19.88	19.83		
3	64QAM	15	0	19.88	19.91	19.81		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.16	22.15	22.23		
1.4	QPSK	1	3	22.13	22.14	22.14		
1.4	QPSK	1	5	22.14	22.08	22.23	24	0
1.4	QPSK	3	0	22.08	22.12	22.01		
1.4	QPSK	3	1	22.14	22.16	22.07		
1.4	QPSK	3	3	22.07	22.13	22.01		
1.4	QPSK	6	0	21.66	21.66	21.61	23	1
1.4	16QAM	1	0	21.90	21.90	21.79		
1.4	16QAM	1	3	22.02	21.95	21.93		
1.4	16QAM	1	5	21.85	21.85	21.84	23	1
1.4	16QAM	3	0	21.69	21.73	21.62		
1.4	16QAM	3	1	21.72	21.73	21.67		
1.4	16QAM	3	3	21.69	21.71	21.63		
1.4	16QAM	6	0	20.70	20.76	20.66	22	2
1.4	64QAM	1	0	20.95	20.91	20.84		
1.4	64QAM	1	3	21.01	20.95	20.79		
1.4	64QAM	1	5	20.87	20.95	20.84	22	2
1.4	64QAM	3	0	20.88	20.86	20.78		
1.4	64QAM	3	1	20.91	20.87	20.79		
1.4	64QAM	3	3	20.86	20.83	20.75		
1.4	64QAM	6	0	19.79	19.76	19.68	21	3

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	22.36	22.73	22.58		
20	QPSK	1	49	22.43	22.62	22.72	24	0
20	QPSK	1	99	22.60	22.67	22.69		
20	QPSK	50	0	21.35	21.49	21.58		
20	QPSK	50	24	21.50	21.57	21.67	23	1
20	QPSK	50	50	21.55	21.64	21.76		
20	QPSK	100	0	21.48	21.51	21.60		
20	16QAM	1	0	21.53	21.55	21.70		
20	16QAM	1	49	21.56	21.69	21.78	23	1
20	16QAM	1	99	21.71	21.78	21.84		
20	16QAM	50	0	20.39	20.51	20.62		
20	16QAM	50	24	20.53	20.58	20.71	22	2
20	16QAM	50	50	20.56	20.68	20.76		
20	16QAM	100	0	20.50	20.55	20.64		
20	64QAM	1	0	20.41	20.37	20.51		
20	64QAM	1	49	20.36	20.48	20.57	22	2
20	64QAM	1	99	20.46	20.52	20.80		
20	64QAM	50	0	19.41	19.54	19.64		
20	64QAM	50	24	19.58	19.67	19.75	21	3
20	64QAM	50	50	19.57	19.75	19.83		
20	64QAM	100	0	19.65	19.72	19.82		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.29	22.43	22.60		
15	QPSK	1	37	22.39	22.49	22.71	24	0
15	QPSK	1	74	22.52	22.63	22.43		
15	QPSK	36	0	21.34	21.50	21.65		
15	QPSK	36	20	21.49	21.57	21.80	23	1
15	QPSK	36	39	21.49	21.60	21.73		
15	QPSK	75	0	21.48	21.55	21.71		
15	16QAM	1	0	21.48	21.68	21.83		
15	16QAM	1	37	21.50	21.63	21.73	23	1
15	16QAM	1	74	21.63	21.77	21.87		
15	16QAM	36	0	20.30	20.48	20.60		
15	16QAM	36	20	20.51	20.56	20.78	22	2
15	16QAM	36	39	20.46	20.59	20.73		
15	16QAM	75	0	20.47	20.53	20.71		
15	64QAM	1	0	20.29	20.47	20.56		
15	64QAM	1	37	20.33	20.50	20.55	22	2
15	64QAM	1	74	20.40	20.53	20.57		
15	64QAM	36	0	19.45	19.60	19.75		
15	64QAM	36	20	19.62	19.68	19.93	21	3
15	64QAM	36	39	19.59	19.79	19.90		
15	64QAM	75	0	19.61	19.66	19.82		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.40	22.53	22.72		
10	QPSK	1	25	22.44	22.65	22.45	24	0
10	QPSK	1	49	22.45	22.54	22.54		
10	QPSK	25	0	21.65	21.70	21.87		
10	QPSK	25	12	21.64	21.76	21.88	23	1
10	QPSK	25	25	21.61	21.82	21.95		
10	QPSK	50	0	21.60	21.72	21.87		
10	16QAM	1	0	21.59	21.70	21.95		
10	16QAM	1	25	21.61	21.88	21.98	23	1
10	16QAM	1	49	21.59	21.79	21.95		
10	16QAM	25	0	20.64	20.76	20.81		
10	16QAM	25	12	20.70	20.80	20.94	22	2
10	16QAM	25	25	20.63	20.84	21.02		
10	16QAM	50	0	20.66	20.78	20.91		
10	64QAM	1	0	20.48	20.68	20.84		
10	64QAM	1	25	20.46	20.57	20.78	22	2
10	64QAM	1	49	20.60	20.87	20.66		
10	64QAM	25	0	19.68	19.82	19.94		
10	64QAM	25	12	19.79	19.85	20.00	21	3
10	64QAM	25	25	19.76	19.91	20.05		
10	64QAM	50	0	19.70	19.81	19.97		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.52	22.63	22.45		
5	QPSK	1	12	22.44	22.63	22.55	24	0
5	QPSK	1	24	22.44	22.68	22.56		
5	QPSK	12	0	21.59	21.73	21.96		
5	QPSK	12	7	21.58	21.78	21.99	23	1
5	QPSK	12	13	21.56	21.81	21.95		
5	QPSK	25	0	21.55	21.71	21.93		
5	16QAM	1	0	21.61	21.70	21.95		
5	16QAM	1	12	21.66	21.78	22.00	23	1
5	16QAM	1	24	21.68	21.84	21.97		
5	16QAM	12	0	20.54	20.71	20.94		
5	16QAM	12	7	20.57	20.80	20.94	22	2
5	16QAM	12	13	20.55	20.69	20.92		
5	16QAM	25	0	20.60	20.76	20.98		
5	64QAM	1	0	20.50	20.62	20.84		
5	64QAM	1	12	20.41	20.56	20.80	22	2
5	64QAM	1	24	20.49	20.71	20.85		
5	64QAM	12	0	19.66	19.81	20.01		
5	64QAM	12	7	19.69	19.86	20.06	21	3
5	64QAM	12	13	19.66	19.79	20.04		
5	64QAM	25	0	19.62	19.76	20.03		

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				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.60	22.57	22.64	22.54	22.63		
20	QPSK	1	49	22.36	22.33	22.40	22.45	22.45	24	0
20	QPSK	1	99	22.38	22.34	22.53	22.43	22.54		
20	QPSK	50	0	21.84	21.50	21.85	21.78	21.67		
20	QPSK	50	24	21.57	21.53	21.62	21.84	21.52	23	1
20	QPSK	50	50	21.49	21.52	21.64	21.75	21.65		
20	QPSK	100	0	21.55	21.52	21.83	21.82	21.75		
20	16QAM	1	0	21.51	21.44	21.60	21.65	21.75		
20	16QAM	1	49	21.50	21.45	21.54	21.56	21.56	23	1
20	16QAM	1	99	21.52	21.53	21.68	21.76	21.40		
20	16QAM	50	0	20.58	20.54	20.53	20.91	20.60		
20	16QAM	50	24	20.59	20.55	20.64	20.85	20.53	22	2
20	16QAM	50	50	20.52	20.57	20.65	20.77	20.43		
20	16QAM	100	0	20.60	20.55	20.65	20.82	20.48		
20	64QAM	1	0	20.57	20.57	20.43	20.92	20.61		
20	64QAM	1	49	20.56	20.66	20.49	20.71	20.66	22	2
20	64QAM	1	99	20.65	20.57	20.51	20.61	20.57		
20	64QAM	50	0	19.62	19.56	19.57	19.97	19.66		
20	64QAM	50	24	19.64	19.60	19.68	19.91	19.58	21	3
20	64QAM	50	50	19.61	19.59	19.71	19.82	19.48		
20	64QAM	100	0	19.75	19.71	19.80	19.99	19.65		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.31	22.39	22.46	22.45	22.54		
15	QPSK	1	37	22.35	22.30	22.40	22.45	22.42	24	0
15	QPSK	1	74	22.38	22.37	22.55	22.40	22.34		
15	QPSK	36	0	21.53	21.51	21.53	21.63	21.61		
15	QPSK	36	20	21.56	21.50	21.60	21.54	21.49	23	1
15	QPSK	36	39	21.55	21.52	21.62	21.48	21.41		
15	QPSK	75	0	21.55	21.53	21.62	21.55	21.50		
15	16QAM	1	0	21.53	21.53	21.58	21.81	21.81		
15	16QAM	1	37	21.48	21.43	21.54	21.57	21.54	23	1
15	16QAM	1	74	21.49	21.54	21.69	21.52	21.46		
15	16QAM	36	0	20.50	20.50	20.52	20.58	20.57		
15	16QAM	36	20	20.54	20.49	20.60	20.49	20.45	22	2
15	16QAM	36	39	20.53	20.50	20.62	20.44	20.36		
15	16QAM	75	0	20.60	20.52	20.67	20.55	20.50		
15	64QAM	1	0	20.37	20.48	20.44	20.68	20.67		
15	64QAM	1	37	20.33	20.31	20.42	20.42	20.38	22	2
15	64QAM	1	74	20.43	20.40	20.52	20.37	20.30		
15	64QAM	36	0	19.64	19.67	19.65	19.75	19.72		
15	64QAM	36	20	19.68	19.66	19.74	19.65	19.60	21	3
15	64QAM	36	39	19.66	19.65	19.74	19.60	19.52		
15	64QAM	75	0	19.72	19.67	19.77	19.67	19.62		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.60	22.41	22.58	22.43	22.45		
10	QPSK	1	25	22.57	22.53	22.63	22.43	22.40	24	0
10	QPSK	1	49	22.55	22.50	22.43	22.46	22.38		
10	QPSK	25	0	21.70	21.64	21.63	21.61	21.59		
10	QPSK	25	12	21.71	21.68	21.78	21.54	21.50	23	1
10	QPSK	25	25	21.68	21.70	21.76	21.49	21.43		
10	QPSK	50	0	21.69	21.63	21.77	21.53	21.49		
10	16QAM	1	0	21.74	21.63	21.71	21.78	21.78		
10	16QAM	1	25	21.73	21.71	21.74	21.55	21.51	23	1
10	16QAM	1	49	21.69	21.60	21.74	21.55	21.46		
10	16QAM	25	0	20.73	20.67	20.68	20.63	20.60		
10	16QAM	25	12	20.76	20.71	20.78	20.56	20.50	22	2
10	16QAM	25	25	20.69	20.68	20.79	20.52	20.44		
10	16QAM	50	0	20.74	20.68	20.79	20.55	20.49		
10	64QAM	1	0	20.75	20.69	20.75	20.64	20.64		
10	64QAM	1	25	20.51	20.49	20.64	20.40	20.35	22	2
10	64QAM	1	49	20.62	20.54	20.72	20.42	20.33		
10	64QAM	25	0	19.77	19.67	19.74	19.70	19.67		
10	64QAM	25	12	19.84	19.77	19.89	19.64	19.58	21	3
10	64QAM	25	25	19.79	19.76	19.89	19.59	19.51		
10	64QAM	50	0	19.78	19.72	19.81	19.61	19.55		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.61	22.48	22.58	22.53	22.52		
5	QPSK	1	12	22.58	22.54	22.63	22.38	22.34	24	0
5	QPSK	1	24	22.54	22.48	22.45	22.40	22.31		
5	QPSK	12	0	21.69	21.63	21.74	21.50	21.47		
5	QPSK	12	7	21.73	21.68	21.77	21.48	21.42	23	1
5	QPSK	12	13	21.72	21.69	21.75	21.46	21.37		
5	QPSK	25	0	21.68	21.62	21.74	21.44	21.39		
5	16QAM	1	0	21.72	21.63	21.69	21.64	21.61		
5	16QAM	1	12	21.75	21.76	21.88	21.51	21.46	23	1
5	16QAM	1	24	21.78	21.66	21.67	21.56	21.46		
5	16QAM	12	0	20.66	20.64	20.70	20.48	20.43		
5	16QAM	12	7	20.72	20.62	20.76	20.44	20.39	22	2
5	16QAM	12	13	20.67	20.63	20.76	20.42	20.34		
5	16QAM	25	0	20.71	20.65	20.81	20.47	20.41		
5	64QAM	1	0	20.63	20.49	20.55	20.53	20.50		
5	64QAM	1	12	20.57	20.52	20.58	20.37	20.32	22	2
5	64QAM	1	24	20.65	20.50	20.68	20.42	20.33		
5	64QAM	12	0	19.78	19.73	19.86	19.59	19.54		
5	64QAM	12	7	19.81	19.75	19.87	19.57	19.51	21	3
5	64QAM	12	13	19.79	19.71	19.84	19.54	19.45		
5	64QAM	25	0	19.78	19.73	19.85	19.54	19.47		

Full Power Mode for ANT2

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.89	31.96	32.00	33.00	22.89	22.96	23.00	24.00
GPRS 1 Tx slot	31.88	31.94	31.99	33.00	22.88	22.94	22.99	24.00
GPRS 2 Tx slots	29.36	29.46	29.39	29.50	23.36	23.46	23.39	23.50
GPRS 3 Tx slots	27.83	28.05	27.86	28.50	23.57	23.79	23.60	24.24
GPRS 4 Tx slots	25.94	25.89	25.85	26.50	22.94	22.89	22.85	23.50
EDGE 1 Tx slot	24.90	24.89	24.76	25.50	15.90	15.89	15.76	16.50
EDGE 2 Tx slots	23.46	23.65	23.35	24.50	17.46	17.65	17.35	18.50
EDGE 3 Tx slots	22.35	22.57	22.25	23.00	18.09	18.31	17.99	18.74
EDGE 4 Tx slots	20.44	20.56	20.51	21.00	17.44	17.56	17.51	18.00

Band		WCDMA V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.06	23.05	22.99	24.00
3GPP Rel 99	RMC 12.2Kbps	23.08	23.09	23.01	24.00
3GPP Rel 6	HSDPA Subtest-1	22.10	22.15	22.07	23.00
3GPP Rel 6	HSDPA Subtest-2	22.05	22.16	22.05	23.00
3GPP Rel 6	HSDPA Subtest-3	21.53	21.69	21.56	22.50
3GPP Rel 6	HSDPA Subtest-4	21.54	21.66	21.55	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.90	21.95	21.97	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.85	21.96	21.95	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.33	21.49	21.36	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.34	21.46	21.35	22.50
3GPP Rel 6	HSUPA Subtest-1	22.02	21.99	21.85	23.00
3GPP Rel 6	HSUPA Subtest-2	20.03	19.95	19.86	21.00
3GPP Rel 6	HSUPA Subtest-3	21.15	20.98	20.82	22.00
3GPP Rel 6	HSUPA Subtest-4	19.99	19.95	19.82	21.00
3GPP Rel 6	HSUPA Subtest-5	22.10	22.00	21.80	23.00

Band 5 (Celluar Band)
Part 22H(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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	21.87	21.89	21.81		
10	QPSK	1	25	21.87	21.78	21.79	23	0
10	QPSK	1	49	21.84	21.82	21.74		
10	QPSK	25	0	20.99	21.04	20.84		
10	QPSK	25	12	21.03	20.99	20.90	22	1
10	QPSK	25	25	20.98	20.93	20.91		
10	QPSK	50	0	21.01	21.02	20.87		
10	16QAM	1	0	21.18	21.06	21.08		
10	16QAM	1	25	21.19	21.01	21.03	22	1
10	16QAM	1	49	21.11	21.13	21.05		
10	16QAM	25	0	20.00	19.92	19.86		
10	16QAM	25	12	20.05	19.99	19.85	21	2
10	16QAM	25	25	20.01	19.92	19.91		
10	16QAM	50	0	20.04	19.98	19.88		
10	64QAM	1	0	20.35	20.25	20.25		
10	64QAM	1	25	20.27	20.19	20.11	21	2
10	64QAM	1	49	20.25	20.25	20.15		
10	64QAM	25	0	19.19	19.12	19.14		
10	64QAM	25	12	19.31	19.27	19.12	20	3
10	64QAM	25	25	19.19	19.16	19.14		
10	64QAM	50	0	19.25	19.20	19.09		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	21.88	21.73	21.58		
5	QPSK	1	12	21.82	21.70	21.65	23	0
5	QPSK	1	24	21.87	21.71	21.58		
5	QPSK	12	0	20.94	20.79	20.68		
5	QPSK	12	7	20.92	20.84	20.70	22	1
5	QPSK	12	13	20.94	20.84	20.70		
5	QPSK	25	0	20.94	20.83	20.66		
5	16QAM	1	0	21.21	21.02	20.93		
5	16QAM	1	12	21.11	20.99	20.88	22	1
5	16QAM	1	24	21.16	21.15	20.86		
5	16QAM	12	0	19.98	19.85	19.69		
5	16QAM	12	7	19.97	19.85	19.70	21	2
5	16QAM	12	13	19.94	19.81	19.74		
5	16QAM	25	0	19.99	19.81	19.66		
5	64QAM	1	0	20.31	20.19	20.07		
5	64QAM	1	12	20.22	20.15	20.02	21	2
5	64QAM	1	24	20.27	20.19	20.06		
5	64QAM	12	0	19.17	18.99	18.97		
5	64QAM	12	7	19.14	19.05	18.95	20	3
5	64QAM	12	13	19.20	19.01	18.97		
5	64QAM	25	0	19.19	19.07	18.93		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	21.85	21.68	21.54		
3	QPSK	1	8	21.83	21.72	21.60	23	0
3	QPSK	1	14	21.80	21.72	21.57		
3	QPSK	8	0	20.91	20.75	20.57		
3	QPSK	8	4	20.92	20.78	20.67	22	1
3	QPSK	8	7	20.88	20.78	20.64		
3	QPSK	15	0	20.91	20.78	20.58		
3	16QAM	1	0	21.23	21.01	20.90		
3	16QAM	1	8	21.22	21.09	20.83	22	1
3	16QAM	1	14	21.04	20.92	20.88		
3	16QAM	8	0	20.00	19.78	19.68		
3	16QAM	8	4	19.99	19.88	19.80	21	2
3	16QAM	8	7	20.01	19.86	19.70		
3	16QAM	15	0	19.95	19.79	19.64		
3	64QAM	1	0	20.39	20.18	20.00		
3	64QAM	1	8	20.31	20.13	20.04	21	2
3	64QAM	1	14	20.25	20.14	20.04		
3	64QAM	8	0	19.18	18.99	18.87		
3	64QAM	8	4	19.19	19.09	18.93	20	3
3	64QAM	8	7	19.15	19.03	18.92		
3	64QAM	15	0	19.18	19.01	18.82		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	21.76	21.58	21.50		
1.4	QPSK	1	3	21.84	21.68	21.51		
1.4	QPSK	1	5	21.74	21.62	21.45	23	0
1.4	QPSK	3	0	21.80	21.52	21.46		
1.4	QPSK	3	1	21.85	21.68	21.49		
1.4	QPSK	3	3	21.80	21.60	21.45		
1.4	QPSK	6	0	20.88	20.74	20.56	22	1
1.4	16QAM	1	0	21.07	20.89	20.78		
1.4	16QAM	1	3	21.08	20.97	20.81		
1.4	16QAM	1	5	21.11	20.88	20.80	22	1
1.4	16QAM	3	0	20.89	20.64	20.56		
1.4	16QAM	3	1	20.90	20.71	20.58		
1.4	16QAM	3	3	20.85	20.67	20.50		
1.4	16QAM	6	0	19.97	19.78	19.63	21	2
1.4	64QAM	1	0	20.27	19.98	19.89		
1.4	64QAM	1	3	20.26	20.11	19.92		
1.4	64QAM	1	5	20.17	20.00	19.90	21	2
1.4	64QAM	3	0	20.14	19.90	19.84		
1.4	64QAM	3	1	20.21	20.02	19.89		
1.4	64QAM	3	3	20.15	19.94	19.79		
1.4	64QAM	6	0	19.16	18.96	18.85	20	3

Band 7 (2600MHz Band) ENDC
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	23.55	23.67	23.56		
20	QPSK	1	49	23.66	23.53	23.24	24	0
20	QPSK	1	99	23.66	23.52	23.28		
20	QPSK	50	0	22.82	22.88	22.78		
20	QPSK	50	24	22.87	22.68	22.46	23	1
20	QPSK	50	50	22.79	22.68	22.45		
20	QPSK	100	0	22.56	22.64	22.46		
20	16QAM	1	0	22.66	22.82	22.52		
20	16QAM	1	49	22.67	22.81	22.52	23	1
20	16QAM	1	99	22.65	22.76	22.55		
20	16QAM	50	0	21.80	21.71	21.42		
20	16QAM	50	24	21.87	21.66	21.46	22	2
20	16QAM	50	50	21.79	21.65	21.39		
20	16QAM	100	0	21.84	21.67	21.44		
20	64QAM	1	0	21.86	21.73	21.59		
20	64QAM	1	49	21.91	21.77	21.56	22	2
20	64QAM	1	99	21.56	21.86	21.65		
20	64QAM	50	0	20.90	20.83	20.54		
20	64QAM	50	24	20.96	20.76	20.54	21	3
20	64QAM	50	50	20.90	20.73	20.48		
20	64QAM	100	0	20.99	20.79	20.56		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.58	23.52	23.19		
15	QPSK	1	37	23.63	23.55	23.20	24	0
15	QPSK	1	74	23.45	23.54	23.23		
15	QPSK	36	0	22.78	22.71	22.46		
15	QPSK	36	20	22.86	22.63	22.48	23	1
15	QPSK	36	39	22.77	22.61	22.41		
15	QPSK	75	0	22.74	22.64	22.39		
15	16QAM	1	0	22.91	22.75	22.55		
15	16QAM	1	37	23.00	22.72	22.60	23	1
15	16QAM	1	74	22.97	22.85	22.58		
15	16QAM	36	0	21.76	21.67	21.48		
15	16QAM	36	20	21.88	21.63	21.49	22	2
15	16QAM	36	39	21.75	21.63	21.39		
15	16QAM	75	0	21.79	21.63	21.40		
15	64QAM	1	0	21.92	21.76	21.59		
15	64QAM	1	37	21.89	21.77	21.62	22	2
15	64QAM	1	74	21.56	21.89	21.64		
15	64QAM	36	0	20.92	20.76	20.57		
15	64QAM	36	20	20.97	20.76	20.59	21	3
15	64QAM	36	39	20.87	20.74	20.52		
15	64QAM	75	0	20.88	20.74	20.63		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.56	23.54	23.46		
10	QPSK	1	25	23.56	23.45	23.53	24	0
10	QPSK	1	49	23.56	23.54	23.59		
10	QPSK	25	0	22.74	22.57	22.25		
10	QPSK	25	12	22.71	22.54	22.28	23	1
10	QPSK	25	25	22.70	22.55	22.27		
10	QPSK	50	0	22.74	22.52	22.26		
10	16QAM	1	0	22.67	22.81	22.69		
10	16QAM	1	25	22.76	22.76	22.61	23	1
10	16QAM	1	49	22.77	22.85	22.73		
10	16QAM	25	0	21.95	21.80	21.45		
10	16QAM	25	12	21.91	21.77	21.51	22	2
10	16QAM	25	25	21.90	21.72	21.48		
10	16QAM	50	0	21.86	21.75	21.45		
10	64QAM	1	0	21.87	21.70	21.40		
10	64QAM	1	25	21.84	21.71	21.44	22	2
10	64QAM	1	49	21.89	21.76	21.49		
10	64QAM	25	0	20.75	20.57	20.30		
10	64QAM	25	12	20.74	20.59	20.41	21	3
10	64QAM	25	25	20.67	20.54	20.35		
10	64QAM	50	0	20.65	20.54	20.25		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.55	23.45	23.44		
5	QPSK	1	12	23.55	23.45	23.43	24	0
5	QPSK	1	24	23.55	23.54	23.46		
5	QPSK	12	0	22.88	22.76	22.51		
5	QPSK	12	7	22.96	22.76	22.59	23	1
5	QPSK	12	13	23.00	22.77	22.59		
5	QPSK	25	0	22.93	22.71	22.45		
5	16QAM	1	0	22.94	22.88	22.76		
5	16QAM	1	12	22.67	22.91	22.80	23	1
5	16QAM	1	24	22.78	22.90	22.84		
5	16QAM	12	0	21.86	21.73	21.59		
5	16QAM	12	7	21.98	21.78	21.67	22	2
5	16QAM	12	13	21.67	21.84	21.71		
5	16QAM	25	0	21.95	21.77	21.45		
5	64QAM	1	0	21.76	21.82	21.61		
5	64QAM	1	12	21.66	21.87	21.61	22	2
5	64QAM	1	24	21.67	21.84	21.73		
5	64QAM	12	0	20.66	20.54	20.30		
5	64QAM	12	7	20.77	20.58	20.38	21	3
5	64QAM	12	13	20.80	20.62	20.41		
5	64QAM	25	0	20.77	20.57	20.36		

Band 12 (700MHz Low Band)
Part 27F(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				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.33	22.42	22.35		
10	QPSK	1	25	22.32	22.34	22.27	24	0
10	QPSK	1	49	22.30	22.32	22.34		
10	QPSK	25	0	21.35	21.44	21.38		
10	QPSK	25	12	21.43	21.38	21.42	23	1
10	QPSK	25	25	21.38	21.41	21.40		
10	QPSK	50	0	21.34	21.37	21.33		
10	16QAM	1	0	21.65	21.62	21.64		
10	16QAM	1	25	21.48	21.64	21.61	23	1
10	16QAM	1	49	21.55	21.68	21.63		
10	16QAM	25	0	20.32	20.41	20.38		
10	16QAM	25	12	20.44	20.35	20.47	22	2
10	16QAM	25	25	20.40	20.42	20.39		
10	16QAM	50	0	20.42	20.35	20.45		
10	64QAM	1	0	20.70	20.66	20.68		
10	64QAM	1	25	20.63	20.62	20.59	22	2
10	64QAM	1	49	20.67	20.65	20.66		
10	64QAM	25	0	19.44	19.47	19.50		
10	64QAM	25	12	19.61	19.49	19.51	21	3
10	64QAM	25	25	19.51	19.54	19.52		
10	64QAM	50	0	19.51	19.47	19.51		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.25	22.23	22.27		
5	QPSK	1	12	22.39	22.35	22.29	24	0
5	QPSK	1	24	22.36	22.35	22.28		
5	QPSK	12	0	21.42	21.37	21.33		
5	QPSK	12	7	21.43	21.38	21.42	23	1
5	QPSK	12	13	21.41	21.39	21.36		
5	QPSK	25	0	21.42	21.34	21.29		
5	16QAM	1	0	21.59	21.61	21.60		
5	16QAM	1	12	21.64	21.62	21.62	23	1
5	16QAM	1	24	21.64	21.66	21.64		
5	16QAM	12	0	20.44	20.40	20.38		
5	16QAM	12	7	20.45	20.35	20.42	22	2
5	16QAM	12	13	20.42	20.43	20.37		
5	16QAM	25	0	20.41	20.34	20.34		
5	64QAM	1	0	20.72	20.64	20.68		
5	64QAM	1	12	20.68	20.71	20.72	22	2
5	64QAM	1	24	20.78	20.75	20.68		
5	64QAM	12	0	19.56	19.51	19.45		
5	64QAM	12	7	19.59	19.45	19.54	21	3
5	64QAM	12	13	19.55	19.52	19.52		
5	64QAM	25	0	19.56	19.49	19.49		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.32	22.26	22.30		
3	QPSK	1	8	22.35	22.41	22.32	24	0
3	QPSK	1	14	22.27	22.28	22.25		
3	QPSK	8	0	21.41	21.39	21.31		
3	QPSK	8	4	21.41	21.41	21.41	23	1
3	QPSK	8	7	21.37	21.38	21.35		
3	QPSK	15	0	21.41	21.38	21.28		
3	16QAM	1	0	21.66	21.66	21.60		
3	16QAM	1	8	21.75	21.63	21.69	23	1
3	16QAM	1	14	21.67	21.69	21.67		
3	16QAM	8	0	20.49	20.44	20.39		
3	16QAM	8	4	20.50	20.46	20.45	22	2
3	16QAM	8	7	20.41	20.41	20.41		
3	16QAM	15	0	20.41	20.34	20.31		
3	64QAM	1	0	20.72	20.74	20.63		
3	64QAM	1	8	20.87	20.80	20.79	22	2
3	64QAM	1	14	20.70	20.66	20.65		
3	64QAM	8	0	19.59	19.51	19.49		
3	64QAM	8	4	19.58	19.57	19.56	21	3
3	64QAM	8	7	19.57	19.53	19.48		
3	64QAM	15	0	19.54	19.46	19.43		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.25	22.20	22.23		
1.4	QPSK	1	3	22.29	22.30	22.23		
1.4	QPSK	1	5	22.17	22.20	22.11	24	0
1.4	QPSK	3	0	22.32	22.22	22.24		
1.4	QPSK	3	1	22.31	22.25	22.25		
1.4	QPSK	3	3	22.28	22.26	22.20		
1.4	QPSK	6	0	21.33	21.30	21.25	23	1
1.4	16QAM	1	0	21.57	21.61	21.58		
1.4	16QAM	1	3	21.58	21.65	21.53		
1.4	16QAM	1	5	21.58	21.50	21.51	23	1
1.4	16QAM	3	0	21.37	21.34	21.32		
1.4	16QAM	3	1	21.45	21.34	21.35		
1.4	16QAM	3	3	21.34	21.33	21.27		
1.4	16QAM	6	0	20.43	20.33	20.35	22	2
1.4	64QAM	1	0	20.67	20.56	20.61		
1.4	64QAM	1	3	20.71	20.65	20.64		
1.4	64QAM	1	5	20.57	20.57	20.46	22	2
1.4	64QAM	3	0	20.54	20.49	20.49		
1.4	64QAM	3	1	20.65	20.54	20.61		
1.4	64QAM	3	3	20.51	20.47	20.45		
1.4	64QAM	6	0	19.53	19.45	19.44	21	3

Band 26 for FCC
(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				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	21.75	21.99	21.78		
15	QPSK	1	37	21.59	21.67	21.80	23	0
15	QPSK	1	74	21.54	21.76	21.86		
15	QPSK	36	0	20.70	20.79	20.64		
15	QPSK	36	20	20.78	20.67	20.62	22	1
15	QPSK	36	39	20.77	20.70	20.73		
15	QPSK	75	0	20.71	20.77	20.67		
15	16QAM	1	0	20.99	21.04	20.89		
15	16QAM	1	37	20.83	21.10	20.90	22	1
15	16QAM	1	74	20.90	21.02	20.84		
15	16QAM	36	0	19.77	19.83	19.68		
15	16QAM	36	20	19.79	19.81	19.65	21	2
15	16QAM	36	39	19.79	19.86	19.68		
15	16QAM	75	0	19.82	19.82	19.67		
15	64QAM	1	0	20.00	20.06	19.87		
15	64QAM	1	37	19.86	20.03	19.83	21	2
15	64QAM	1	74	19.88	20.04	19.75		
15	64QAM	36	0	18.90	18.98	18.84		
15	64QAM	36	20	18.93	18.96	18.77	20	3
15	64QAM	36	39	18.93	19.02	18.78		
15	64QAM	75	0	18.96	18.96	18.81		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.97	21.98	21.85		
10	QPSK	1	25	21.83	21.86	21.74	23	0
10	QPSK	1	49	21.89	21.82	21.65		
10	QPSK	25	0	21.07	20.82	20.80		
10	QPSK	25	12	20.95	20.74	20.76	22	1
10	QPSK	25	25	20.89	20.82	20.79		
10	QPSK	50	0	20.92	20.76	20.78		
10	16QAM	1	0	21.24	21.23	21.06		
10	16QAM	1	25	21.09	21.20	21.05	22	1
10	16QAM	1	49	21.04	21.12	21.02		
10	16QAM	25	0	20.02	19.99	19.83		
10	16QAM	25	12	19.94	19.95	19.82	21	2
10	16QAM	25	25	20.01	20.03	19.81		
10	16QAM	50	0	20.12	19.96	19.76		
10	64QAM	1	0	20.42	20.39	20.17		
10	64QAM	1	25	20.31	20.25	20.05	21	2
10	64QAM	1	49	20.25	20.19	19.99		
10	64QAM	25	0	19.27	19.12	18.92		
10	64QAM	25	12	19.29	19.02	18.91	20	3
10	64QAM	25	25	19.20	19.09	18.93		
10	64QAM	50	0	19.24	19.07	18.92		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	21.80	21.88	21.60		
5	QPSK	1	12	21.73	21.88	21.53	23	0
5	QPSK	1	24	21.71	21.74	21.49		
5	QPSK	12	0	20.89	20.73	20.58		
5	QPSK	12	7	20.83	20.82	20.56	22	1
5	QPSK	12	13	20.80	20.85	20.55		
5	QPSK	25	0	20.82	20.78	20.59		
5	16QAM	1	0	21.09	20.98	20.86		
5	16QAM	1	12	21.10	21.00	20.79	22	1
5	16QAM	1	24	21.07	21.07	20.71		
5	16QAM	12	0	19.83	19.79	19.57		
5	16QAM	12	7	19.83	19.84	19.56	21	2
5	16QAM	12	13	19.79	19.81	19.73		
5	16QAM	25	0	19.83	19.76	19.76		
5	64QAM	1	0	20.19	20.11	20.08		
5	64QAM	1	12	20.14	20.06	20.08	21	2
5	64QAM	1	24	20.13	20.21	20.03		
5	64QAM	12	0	18.97	18.91	18.93		
5	64QAM	12	7	18.95	18.98	18.90	20	3
5	64QAM	12	13	18.91	18.94	18.90		
5	64QAM	25	0	18.96	18.88	18.94		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	21.66	21.92	21.80		
3	QPSK	1	8	21.67	21.55	21.76	23	0
3	QPSK	1	14	21.56	21.86	21.67		
3	QPSK	8	0	21.16	20.95	20.82		
3	QPSK	8	4	21.18	21.05	20.79	22	1
3	QPSK	8	7	21.14	21.01	20.73		
3	QPSK	15	0	21.16	20.96	20.74		
3	16QAM	1	0	21.39	21.14	21.13		
3	16QAM	1	8	21.34	21.27	21.00	22	1
3	16QAM	1	14	21.38	21.27	21.04		
3	16QAM	8	0	20.22	19.98	19.86		
3	16QAM	8	4	20.22	20.10	19.85	21	2
3	16QAM	8	7	20.17	20.08	19.85		
3	16QAM	15	0	20.15	19.96	19.78		
3	64QAM	1	0	20.48	20.27	20.18		
3	64QAM	1	8	20.53	20.36	20.21	21	2
3	64QAM	1	14	20.40	20.30	20.04		
3	64QAM	8	0	19.32	19.14	18.94		
3	64QAM	8	4	19.31	19.21	18.95	20	3
3	64QAM	8	7	19.32	19.21	18.96		
3	64QAM	15	0	19.32	19.09	18.92		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	21.97	21.73	21.74		
1.4	QPSK	1	3	21.56	21.83	21.75		
1.4	QPSK	1	5	21.91	21.71	21.66	23	0
1.4	QPSK	3	0	21.97	21.72	21.73		
1.4	QPSK	3	1	21.55	21.78	21.77		
1.4	QPSK	3	3	21.54	21.82	21.72		
1.4	QPSK	6	0	21.08	20.82	20.76	22	1
1.4	16QAM	1	0	21.27	21.08	20.98		
1.4	16QAM	1	3	21.39	21.15	21.09		
1.4	16QAM	1	5	21.24	21.02	20.99	22	1
1.4	16QAM	3	0	21.07	20.79	20.86		
1.4	16QAM	3	1	21.07	20.87	20.84		
1.4	16QAM	3	3	21.03	20.87	20.77		
1.4	16QAM	6	0	20.14	19.88	19.84	21	2
1.4	64QAM	1	0	20.34	20.08	20.03		
1.4	64QAM	1	3	20.44	20.22	20.17		
1.4	64QAM	1	5	20.32	20.18	20.10	21	2
1.4	64QAM	3	0	20.23	19.99	19.97		
1.4	64QAM	3	1	20.29	20.05	20.01		
1.4	64QAM	3	3	20.20	20.01	19.94		
1.4	64QAM	6	0	19.21	18.94	18.96	20	3

Reduced power Mode for P-Sensor On for ANT1

Band 7 (2600MHz Band)
Part 27-ENDC

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	14.15	14.18	14.02	15	0
20	QPSK	1	49	13.98	13.89	14.00		
20	QPSK	1	99	13.80	13.73	13.99		
20	QPSK	50	0	13.94	14.01	13.83	15	0
20	QPSK	50	24	13.91	13.90	13.84		
20	QPSK	50	50	13.92	13.87	13.84		
20	QPSK	100	0	13.93	14.00	13.84		
20	16QAM	1	0	13.91	13.80	13.69	15	0
20	16QAM	1	49	13.92	13.82	13.74		
20	16QAM	1	99	14.00	13.89	13.85		
20	16QAM	50	0	13.99	13.91	13.79	15	0
20	16QAM	50	24	13.99	13.95	13.89		
20	16QAM	50	50	13.99	13.87	13.89		
20	16QAM	100	0	13.91	13.82	13.83		
20	64QAM	1	0	13.92	13.87	13.76	15	0
20	64QAM	1	49	13.98	13.86	13.81		
20	64QAM	1	99	14.04	14.00	13.91		
20	64QAM	50	0	14.00	13.91	13.78	15	0
20	64QAM	50	24	13.96	13.94	13.85		
20	64QAM	50	50	13.96	13.85	13.86		
20	64QAM	100	0	13.92	13.83	13.84		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	13.80	13.68	13.58	15	0
15	QPSK	1	37	13.80	13.72	13.60		
15	QPSK	1	74	13.84	13.73	13.71		
15	QPSK	36	0	13.98	13.84	13.81	15	0
15	QPSK	36	20	14.04	13.86	13.84		
15	QPSK	36	39	13.99	13.86	13.83		
15	QPSK	75	0	14.01	13.81	13.83		
15	16QAM	1	0	14.11	14.01	13.90	15	0
15	16QAM	1	37	14.13	14.02	13.94		
15	16QAM	1	74	14.17	14.08	14.00		
15	16QAM	36	0	14.01	13.88	13.76	15	0
15	16QAM	36	20	14.03	13.84	13.82		
15	16QAM	36	39	13.97	13.84	13.87		
15	16QAM	75	0	14.02	13.84	13.83		
15	64QAM	1	0	13.99	13.90	13.81	15	0
15	64QAM	1	37	13.99	13.91	13.83		
15	64QAM	1	74	14.02	13.97	13.89		
15	64QAM	36	0	14.01	13.88	13.83	15	0
15	64QAM	36	20	14.01	13.85	13.82		
15	64QAM	36	39	13.96	13.89	13.86		
15	64QAM	75	0	14.01	13.83	13.83		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.02	13.90	13.80	15	0
10	QPSK	1	25	14.06	13.94	13.88		
10	QPSK	1	49	14.06	13.98	13.93		
10	QPSK	25	0	14.15	14.00	13.93	15	0
10	QPSK	25	12	14.02	13.97	13.97		
10	QPSK	25	25	14.13	13.99	13.93		
10	QPSK	50	0	14.06	13.93	13.94		
10	16QAM	1	0	13.91	13.82	13.73	15	0
10	16QAM	1	25	13.91	13.76	13.68		
10	16QAM	1	49	13.99	13.89	13.86		
10	16QAM	25	0	13.96	13.86	13.76	15	0
10	16QAM	25	12	14.02	13.83	13.81		
10	16QAM	25	25	13.93	13.83	13.77		
10	16QAM	50	0	13.90	13.79	13.77		
10	64QAM	1	0	14.04	13.93	13.82	15	0
10	64QAM	1	25	14.05	13.98	13.83		
10	64QAM	1	49	14.10	14.03	13.93		
10	64QAM	25	0	13.96	13.86	13.75	15	0
10	64QAM	25	12	14.01	13.82	13.80		
10	64QAM	25	25	13.91	13.82	13.77		
10	64QAM	50	0	13.87	13.77	13.74		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	13.99	13.91	13.80	15	0
5	QPSK	1	12	14.08	13.97	13.85		
5	QPSK	1	24	14.06	13.93	13.91		
5	QPSK	12	0	14.09	13.94	13.86	15	0
5	QPSK	12	7	14.15	14.06	13.94		
5	QPSK	12	13	14.16	14.03	14.01		
5	QPSK	25	0	14.13	13.92	13.93		
5	16QAM	1	0	13.81	13.87	13.76	15	0
5	16QAM	1	12	13.98	13.87	13.78		
5	16QAM	1	24	13.82	13.86	13.87		
5	16QAM	12	0	13.91	13.80	13.71	15	0
5	16QAM	12	7	13.97	13.86	13.78		
5	16QAM	12	13	14.02	13.85	13.86		
5	16QAM	25	0	13.92	13.78	13.77		
5	64QAM	1	0	14.09	14.03	13.88	15	0
5	64QAM	1	12	14.10	14.00	13.91		
5	64QAM	1	24	14.14	13.99	13.98		
5	64QAM	12	0	13.87	13.76	13.67	15	0
5	64QAM	12	7	13.96	13.84	13.76		
5	64QAM	12	13	14.00	13.81	13.83		
5	64QAM	25	0	13.92	13.78	13.76		

Band 66-ENDC

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	15.53	15.71	15.67	17	0
20	QPSK	1	49	15.55	15.52	15.43		
20	QPSK	1	99	15.43	15.46	15.37		
20	QPSK	50	0	15.55	15.65	15.61	17	0
20	QPSK	50	24	15.44	15.36	15.31		
20	QPSK	50	50	15.42	15.39	15.35		
20	QPSK	100	0	15.49	15.54	15.30		
20	16QAM	1	0	15.56	15.68	15.63	17	0
20	16QAM	1	49	15.48	15.64	15.53		
20	16QAM	1	99	15.46	15.52	15.45		
20	16QAM	50	0	15.41	15.41	15.35	17	0
20	16QAM	50	24	15.48	15.36	15.34		
20	16QAM	50	50	15.46	15.43	15.34		
20	16QAM	100	0	15.49	15.35	15.30		
20	64QAM	1	0	15.26	15.44	15.53	17	0
20	64QAM	1	49	15.26	15.59	15.35		
20	64QAM	1	99	15.48	15.50	15.38		
20	64QAM	50	0	15.45	15.39	15.35	17	0
20	64QAM	50	24	15.50	15.37	15.30		
20	64QAM	50	50	15.46	15.38	15.32		
20	64QAM	100	0	15.47	15.37	15.30		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	15.33	15.34	15.39	17	0
15	QPSK	1	37	15.33	15.34	15.27		
15	QPSK	1	74	15.25	15.23	15.19		
15	QPSK	36	0	15.45	15.38	15.32	17	0
15	QPSK	36	20	15.45	15.35	15.32		
15	QPSK	36	39	15.42	15.36	15.33		
15	QPSK	75	0	15.44	15.36	15.28		
15	16QAM	1	0	15.65	15.43	15.65	17	0
15	16QAM	1	37	15.62	15.62	15.53		
15	16QAM	1	74	15.57	15.57	15.54		
15	16QAM	36	0	15.47	15.36	15.33	17	0
15	16QAM	36	20	15.44	15.37	15.34		
15	16QAM	36	39	15.41	15.41	15.31		
15	16QAM	75	0	15.46	15.36	15.28		
15	64QAM	1	0	15.59	15.67	15.52	17	0
15	64QAM	1	37	15.51	15.49	15.40		
15	64QAM	1	74	15.46	15.38	15.39		
15	64QAM	36	0	15.46	15.37	15.32	17	0
15	64QAM	36	20	15.45	15.35	15.29		
15	64QAM	36	39	15.41	15.38	15.32		
15	64QAM	75	0	15.45	15.35	15.31		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.38	15.41	15.43	17	0
10	QPSK	1	25	15.55	15.47	15.40		
10	QPSK	1	49	15.43	15.43	15.34		
10	QPSK	25	0	15.60	15.51	15.51	17	0
10	QPSK	25	12	15.57	15.50	15.49		
10	QPSK	25	25	15.58	15.52	15.45		
10	QPSK	50	0	15.59	15.48	15.50		
10	16QAM	1	0	15.56	15.40	15.44	17	0
10	16QAM	1	25	15.43	15.44	15.61		
10	16QAM	1	49	15.43	15.45	15.63		
10	16QAM	25	0	15.63	15.54	15.55	17	0
10	16QAM	25	12	15.60	15.55	15.53		
10	16QAM	25	25	15.55	15.58	15.44		
10	16QAM	50	0	15.61	15.53	15.51		
10	64QAM	1	0	15.70	15.43	15.68	17	0
10	64QAM	1	25	15.62	15.64	15.56		
10	64QAM	1	49	15.59	15.63	15.52		
10	64QAM	25	0	15.45	15.50	15.51	17	0
10	64QAM	25	12	15.52	15.54	15.48		
10	64QAM	25	25	15.55	15.55	15.43		
10	64QAM	50	0	15.46	15.50	15.50		
Channel				131997	132322	132847	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	15.52	15.47	15.40	17	0
5	QPSK	1	12	15.41	15.47	15.40		
5	QPSK	1	24	15.43	15.46	15.34		
5	QPSK	12	0	15.61	15.52	15.50	17	0
5	QPSK	12	7	15.59	15.59	15.49		
5	QPSK	12	13	15.56	15.58	15.46		
5	QPSK	25	0	15.58	15.51	15.46		
5	16QAM	1	0	15.44	15.60	15.56	17	0
5	16QAM	1	12	15.66	15.61	15.55		
5	16QAM	1	24	15.63	15.60	15.54		
5	16QAM	12	0	15.44	15.37	15.30	17	0
5	16QAM	12	7	15.42	15.43	15.31		
5	16QAM	12	13	15.36	15.40	15.30		
5	16QAM	25	0	15.41	15.32	15.29		
5	64QAM	1	0	15.55	15.54	15.60	17	0
5	64QAM	1	12	15.64	15.56	15.57		
5	64QAM	1	24	15.55	15.55	15.58		
5	64QAM	12	0	15.58	15.56	15.49	17	0
5	64QAM	12	7	15.61	15.59	15.51		
5	64QAM	12	13	15.55	15.56	15.48		
5	64QAM	25	0	15.60	15.54	15.48		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	15.47	15.47	15.37	17	0
3	QPSK	1	8	15.53	15.49	15.39		
3	QPSK	1	14	15.44	15.43	15.34		
3	QPSK	8	0	15.58	15.55	15.46	17	0
3	QPSK	8	4	15.59	15.59	15.49		
3	QPSK	8	7	15.58	15.53	15.44		
3	QPSK	15	0	15.58	15.58	15.44		
3	16QAM	1	0	15.67	15.61	15.53	17	0
3	16QAM	1	8	15.45	15.69	15.59		
3	16QAM	1	14	15.64	15.61	15.50		
3	16QAM	8	0	15.47	15.43	15.34	17	0
3	16QAM	8	4	15.49	15.46	15.34		
3	16QAM	8	7	15.41	15.40	15.28		
3	16QAM	15	0	15.39	15.40	15.30		
3	64QAM	1	0	15.53	15.60	15.53	17	0
3	64QAM	1	8	15.58	15.65	15.57		
3	64QAM	1	14	15.51	15.58	15.53		
3	64QAM	8	0	15.40	15.40	15.26	17	0
3	64QAM	8	4	15.40	15.44	15.30		
3	64QAM	8	7	15.36	15.39	15.25		
3	64QAM	15	0	15.38	15.39	15.27		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	15.42	15.49	15.29	17	0
1.4	QPSK	1	3	15.48	15.54	15.34		
1.4	QPSK	1	5	15.43	15.48	15.25		
1.4	QPSK	3	0	15.42	15.42	15.29		
1.4	QPSK	3	1	15.46	15.48	15.39		
1.4	QPSK	3	3	15.43	15.39	15.32		
1.4	QPSK	6	0	15.53	15.49	15.35	17	0
1.4	16QAM	1	0	15.53	15.59	15.41	17	0
1.4	16QAM	1	3	15.59	15.64	15.43		
1.4	16QAM	1	5	15.51	15.48	15.41		
1.4	16QAM	3	0	15.37	15.33	15.20		
1.4	16QAM	3	1	15.35	15.38	15.24		
1.4	16QAM	3	3	15.32	15.36	15.16		
1.4	16QAM	6	0	15.35	15.35	15.27	17	0
1.4	64QAM	1	0	15.40	15.36	15.36	17	0
1.4	64QAM	1	3	15.47	15.43	15.43		
1.4	64QAM	1	5	15.40	15.37	15.35		
1.4	64QAM	3	0	15.32	15.36	15.20		
1.4	64QAM	3	1	15.39	15.41	15.27		
1.4	64QAM	3	3	15.33	15.30	15.18		
1.4	64QAM	6	0	15.32	15.31	15.19	17	0

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.18	25.27	25.17	26.50	16.18	16.27	16.17	17.50
GPRS 1 Tx slot	25.17	25.26	25.14	26.50	16.17	16.26	16.14	17.50
GPRS 2 Tx slots	22.79	23.16	23.03	24.00	16.79	17.16	17.03	18.00
GPRS 3 Tx slots	21.70	22.10	21.93	23.00	17.44	17.84	17.67	18.74
GPRS 4 Tx slots	19.78	19.93	19.93	21.00	16.78	16.93	16.93	18.00
EDGE 1 Tx slot	20.98	21.34	21.16	22.00	11.98	12.34	12.16	13.00
EDGE 2 Tx slots	19.28	19.24	19.25	20.50	13.28	13.24	13.25	14.50
EDGE 3 Tx slots	18.29	18.23	18.34	19.50	14.03	13.97	14.08	15.24
EDGE 4 Tx slots	16.29	16.24	16.28	17.50	13.29	13.24	13.28	14.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (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	1752.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	17.07	17.20	17.17	18.00	19.14	19.40	19.32	20.00
3GPP Rel 99	RMC 12.2Kbps	17.08	17.21	17.18	18.00	19.16	19.42	19.37	20.00
3GPP Rel 6	HSDPA Subtest-1	16.07	16.07	16.05	17.00	18.02	18.18	18.15	19.00
3GPP Rel 6	HSDPA Subtest-2	16.09	16.07	16.06	17.00	18.00	18.19	18.14	19.00
3GPP Rel 6	HSDPA Subtest-3	15.69	15.67	15.64	16.50	17.61	17.80	17.74	18.50
3GPP Rel 6	HSDPA Subtest-4	15.65	15.67	15.65	16.50	17.61	17.79	17.74	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.01	16.02	15.89	17.00	18.10	18.15	18.13	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.02	16.09	15.92	17.00	18.02	18.12	18.11	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	15.61	15.62	15.53	16.50	17.53	17.63	17.71	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	15.53	15.59	15.51	16.50	17.52	17.62	17.66	18.50
3GPP Rel 6	HSUPA Subtest-1	15.89	15.87	15.92	17.00	18.18	18.39	18.29	19.00
3GPP Rel 6	HSUPA Subtest-2	14.01	13.98	13.88	15.00	16.18	16.45	16.24	17.00
3GPP Rel 6	HSUPA Subtest-3	15.11	15.03	14.93	16.00	17.20	17.47	17.35	18.00
3GPP Rel 6	HSUPA Subtest-4	14.03	14.11	13.86	15.00	16.22	16.37	16.41	17.00
3GPP Rel 6	HSUPA Subtest-5	16.10	16.20	16.11	17.00	18.20	18.40	18.40	19.00

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	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	18.35	18.42	18.34		
20	QPSK	1	49	18.18	18.19	18.24	19	0
20	QPSK	1	99	18.00	18.13	18.02		
20	QPSK	50	0	18.33	18.38	18.35		
20	QPSK	50	24	18.31	18.26	18.33	19	0
20	QPSK	50	50	18.21	18.28	18.29		
20	QPSK	100	0	18.33	18.37	18.36		
20	16QAM	1	0	18.29	18.13	18.22		
20	16QAM	1	49	18.02	18.10	18.16	19	0
20	16QAM	1	99	17.85	18.04	17.99		
20	16QAM	50	0	17.96	17.87	17.97		
20	16QAM	50	24	17.93	17.85	17.93	19	0
20	16QAM	50	50	17.82	17.93	17.92		
20	16QAM	100	0	17.95	17.93	17.93		
20	64QAM	1	0	18.11	17.97	18.05		
20	64QAM	1	49	17.82	17.84	17.93	19	0
20	64QAM	1	99	17.70	17.84	17.77		
20	64QAM	50	0	17.95	17.88	17.96		
20	64QAM	50	24	17.91	17.85	17.94	19	0
20	64QAM	50	50	17.81	17.90	17.92		
20	64QAM	100	0	17.93	17.95	17.95		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.99	17.82	17.92		
15	QPSK	1	37	17.75	17.85	17.84	19	0
15	QPSK	1	74	17.63	17.79	17.65		
15	QPSK	36	0	17.93	17.89	17.98		
15	QPSK	36	20	17.91	17.92	17.92	19	0
15	QPSK	36	39	17.83	17.90	17.93		
15	QPSK	75	0	17.95	17.93	17.93		
15	16QAM	1	0	18.33	18.15	18.21		
15	16QAM	1	37	18.03	18.04	18.11	19	0
15	16QAM	1	74	17.94	18.10	18.03		
15	16QAM	36	0	17.92	17.85	17.94		
15	16QAM	36	20	17.95	17.93	17.91	19	0
15	16QAM	36	39	17.84	17.87	17.91		
15	16QAM	75	0	17.93	17.94	17.92		
15	64QAM	1	0	18.11	17.86	17.98		
15	64QAM	1	37	17.84	17.87	17.90	19	0
15	64QAM	1	74	17.73	17.87	17.73		
15	64QAM	36	0	17.95	17.89	17.95		
15	64QAM	36	20	17.93	17.90	17.90	19	0
15	64QAM	36	39	17.83	17.90	17.92		
15	64QAM	75	0	17.95	17.92	17.94		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	18.15	18.01	18.08		
10	QPSK	1	25	17.93	17.92	18.01	19	0
10	QPSK	1	49	17.85	17.95	17.87		
10	QPSK	25	0	18.19	18.01	18.11		
10	QPSK	25	12	18.11	18.01	18.06	19	0
10	QPSK	25	25	17.96	18.02	18.01		
10	QPSK	50	0	18.06	18.05	18.00		
10	16QAM	1	0	18.26	18.28	18.34		
10	16QAM	1	25	18.17	18.14	18.26	19	0
10	16QAM	1	49	18.13	18.25	18.13		
10	16QAM	25	0	18.19	18.02	18.12		
10	16QAM	25	12	18.13	18.03	18.09	19	0
10	16QAM	25	25	17.99	18.03	18.03		
10	16QAM	50	0	18.08	18.07	18.08		
10	64QAM	1	0	18.37	18.19	18.30		
10	64QAM	1	25	18.11	18.09	18.13	19	0
10	64QAM	1	49	18.02	18.11	18.09		
10	64QAM	25	0	18.14	18.00	18.06		
10	64QAM	25	12	18.11	18.00	18.00	19	0
10	64QAM	25	25	17.98	17.98	18.00		
10	64QAM	50	0	18.10	18.03	18.07		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	18.11	17.91	18.01		
5	QPSK	1	12	17.98	17.94	17.97	19	0
5	QPSK	1	24	17.88	17.91	17.81		
5	QPSK	12	0	18.17	18.02	18.08		
5	QPSK	12	7	18.10	18.08	17.97	19	0
5	QPSK	12	13	18.02	18.00	17.91		
5	QPSK	25	0	18.14	18.03	18.00		
5	16QAM	1	0	18.25	18.28	18.37		
5	16QAM	1	12	18.39	18.35	18.34	19	0
5	16QAM	1	24	18.26	18.28	18.24		
5	16QAM	12	0	18.19	18.04	18.13		
5	16QAM	12	7	18.14	18.08	18.06	19	0
5	16QAM	12	13	18.02	18.03	17.96		
5	16QAM	25	0	18.10	18.07	18.03		
5	64QAM	1	0	18.25	18.20	18.32		
5	64QAM	1	12	18.31	18.28	18.27	19	0
5	64QAM	1	24	18.18	18.20	18.12		
5	64QAM	12	0	18.22	18.08	18.10		
5	64QAM	12	7	18.12	18.07	18.04	19	0
5	64QAM	12	13	18.00	17.98	17.91		
5	64QAM	25	0	18.09	18.05	18.00		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.17	17.94	17.98		
3	QPSK	1	8	18.06	17.92	17.89	19	0
3	QPSK	1	14	17.90	17.83	17.76		
3	QPSK	8	0	18.20	18.00	18.03		
3	QPSK	8	4	18.15	18.05	18.00	19	0
3	QPSK	8	7	18.05	17.93	17.89		
3	QPSK	15	0	18.14	18.06	18.00		
3	16QAM	1	0	18.23	18.29	18.37		
3	16QAM	1	8	18.24	18.33	18.25	19	0
3	16QAM	1	14	18.27	18.21	18.10		
3	16QAM	8	0	18.27	18.08	18.11		
3	16QAM	8	4	18.23	18.13	18.04	19	0
3	16QAM	8	7	18.13	18.04	17.95		
3	16QAM	15	0	18.13	18.07	18.00		
3	64QAM	1	0	18.24	18.25	18.27		
3	64QAM	1	8	18.32	18.26	18.15	19	0
3	64QAM	1	14	18.18	18.13	18.05		
3	64QAM	8	0	18.21	18.02	18.03		
3	64QAM	8	4	18.18	18.09	18.01	19	0
3	64QAM	8	7	18.07	17.97	17.90		
3	64QAM	15	0	18.12	18.02	17.98		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.07	17.93	17.84		
1.4	QPSK	1	3	18.07	17.92	17.85		
1.4	QPSK	1	5	17.95	17.82	17.72	19	0
1.4	QPSK	3	0	18.05	17.91	17.82		
1.4	QPSK	3	1	18.09	17.96	17.88		
1.4	QPSK	3	3	17.97	17.85	17.78		
1.4	QPSK	6	0	18.09	17.96	17.88	19	0
1.4	16QAM	1	0	18.23	18.26	18.25		
1.4	16QAM	1	3	18.24	18.24	18.22		
1.4	16QAM	1	5	18.28	18.16	18.03	19	0
1.4	16QAM	3	0	18.17	18.07	17.97		
1.4	16QAM	3	1	18.23	18.10	18.02		
1.4	16QAM	3	3	18.12	18.00	17.93		
1.4	16QAM	6	0	18.16	18.04	17.92	19	0
1.4	64QAM	1	0	18.33	18.12	18.04		
1.4	64QAM	1	3	18.26	18.13	18.03		
1.4	64QAM	1	5	18.19	18.04	17.96	19	0
1.4	64QAM	3	0	18.11	18.03	17.92		
1.4	64QAM	3	1	18.19	18.06	17.98		
1.4	64QAM	3	3	18.11	17.96	17.89		
1.4	64QAM	6	0	18.11	17.99	17.92	19	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)				1720	1732.5	1745		
20	QPSK	1	0	19.11	19.35	19.30		
20	QPSK	1	49	19.03	19.21	19.12	20.5	0
20	QPSK	1	99	19.05	19.10	19.01		
20	QPSK	50	0	19.12	19.30	19.25		
20	QPSK	50	24	19.19	19.24	19.29	20.5	0
20	QPSK	50	50	19.12	19.24	19.13		
20	QPSK	100	0	19.18	19.29	19.26		
20	16QAM	1	0	19.10	19.17	19.23		
20	16QAM	1	49	18.92	19.20	19.07	20.5	0
20	16QAM	1	99	18.97	19.15	18.96		
20	16QAM	50	0	18.73	18.95	18.98		
20	16QAM	50	24	18.81	18.97	18.92	20.5	0
20	16QAM	50	50	18.76	18.87	18.73		
20	16QAM	100	0	18.79	18.90	18.89		
20	64QAM	1	0	18.87	18.98	19.15		
20	64QAM	1	49	18.87	19.08	19.07	20.5	0
20	64QAM	1	99	18.75	19.21	18.94		
20	64QAM	50	0	18.72	18.94	18.97		
20	64QAM	50	24	18.78	18.91	18.92	20.5	0
20	64QAM	50	50	18.77	18.84	18.76		
20	64QAM	100	0	18.79	18.92	18.89		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.62	18.90	18.84		
15	QPSK	1	37	18.57	18.87	18.71	20.5	0
15	QPSK	1	74	18.60	18.74	18.62		
15	QPSK	36	0	18.63	18.92	18.90		
15	QPSK	36	20	18.70	18.92	18.87	20.5	0
15	QPSK	36	39	18.68	18.87	18.72		
15	QPSK	75	0	18.67	18.89	18.86		
15	16QAM	1	0	18.93	19.20	19.19		
15	16QAM	1	37	18.81	19.13	18.99	20.5	0
15	16QAM	1	74	18.78	19.10	18.95		
15	16QAM	36	0	18.68	18.91	18.92		
15	16QAM	36	20	18.74	18.95	18.88	20.5	0
15	16QAM	36	39	18.68	18.89	18.73		
15	16QAM	75	0	18.74	18.90	18.88		
15	64QAM	1	0	19.09	19.10	19.12		
15	64QAM	1	37	18.76	19.08	18.95	20.5	0
15	64QAM	1	74	18.72	19.18	18.80		
15	64QAM	36	0	18.68	18.93	18.92		
15	64QAM	36	20	18.69	18.93	18.88	20.5	0
15	64QAM	36	39	18.68	18.88	18.73		
15	64QAM	75	0	18.73	18.90	18.89		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.79	19.06	18.95		
10	QPSK	1	25	18.69	19.01	18.87	20.5	0
10	QPSK	1	49	18.67	18.88	18.87		
10	QPSK	25	0	18.82	19.07	19.02		
10	QPSK	25	12	18.84	19.03	19.00	20.5	0
10	QPSK	25	25	18.78	18.98	18.96		
10	QPSK	50	0	18.81	19.02	19.00		
10	16QAM	1	0	19.08	19.28	19.27		
10	16QAM	1	25	18.93	19.25	19.11	20.5	0
10	16QAM	1	49	19.01	19.27	19.15		
10	16QAM	25	0	18.89	19.10	19.06		
10	16QAM	25	12	18.90	19.07	19.04	20.5	0
10	16QAM	25	25	18.82	19.04	18.98		
10	16QAM	50	0	18.84	19.05	18.99		
10	64QAM	1	0	18.98	19.22	19.20		
10	64QAM	1	25	18.88	19.23	19.08	20.5	0
10	64QAM	1	49	18.84	19.14	19.06		
10	64QAM	25	0	18.81	19.05	19.00		
10	64QAM	25	12	18.90	19.06	19.02	20.5	0
10	64QAM	25	25	18.80	19.00	18.97		
10	64QAM	50	0	18.84	19.02	19.00		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.74	18.99	18.90		
5	QPSK	1	12	18.69	19.04	18.84	20.5	0
5	QPSK	1	24	18.65	18.94	18.86		
5	QPSK	12	0	18.77	19.06	18.97		
5	QPSK	12	7	18.78	19.05	19.00	20.5	0
5	QPSK	12	13	18.73	19.01	18.93		
5	QPSK	25	0	18.73	19.02	18.97		
5	16QAM	1	0	19.04	19.26	19.23		
5	16QAM	1	12	18.95	19.30	19.17	20.5	0
5	16QAM	1	24	19.00	19.25	19.19		
5	16QAM	12	0	18.80	19.08	18.99		
5	16QAM	12	7	18.79	19.05	19.01	20.5	0
5	16QAM	12	13	18.77	19.04	18.95		
5	16QAM	25	0	18.80	19.03	18.97		
5	64QAM	1	0	18.95	19.16	19.15		
5	64QAM	1	12	18.88	19.14	19.14	20.5	0
5	64QAM	1	24	18.92	19.17	19.13		
5	64QAM	12	0	18.78	19.05	18.96		
5	64QAM	12	7	18.75	19.06	18.98	20.5	0
5	64QAM	12	13	18.81	19.04	18.93		
5	64QAM	25	0	18.78	19.03	18.95		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	18.73	18.95	18.84		
3	QPSK	1	8	18.74	19.01	18.88	20.5	0
3	QPSK	1	14	18.66	18.91	18.82		
3	QPSK	8	0	18.75	19.01	18.91		
3	QPSK	8	4	18.80	19.03	18.95	20.5	0
3	QPSK	8	7	18.76	19.00	18.92		
3	QPSK	15	0	18.75	19.00	18.94		
3	16QAM	1	0	19.02	19.26	19.18		
3	16QAM	1	8	19.10	19.25	19.25	20.5	0
3	16QAM	1	14	19.05	19.25	19.16		
3	16QAM	8	0	18.84	19.07	18.98		
3	16QAM	8	4	18.85	19.08	19.05	20.5	0
3	16QAM	8	7	18.82	19.06	18.99		
3	16QAM	15	0	18.79	19.04	18.92		
3	64QAM	1	0	18.91	19.14	19.10		
3	64QAM	1	8	18.96	19.25	19.15	20.5	0
3	64QAM	1	14	18.95	19.06	19.06		
3	64QAM	8	0	18.82	19.05	18.95		
3	64QAM	8	4	18.82	19.08	18.94	20.5	0
3	64QAM	8	7	18.80	19.03	18.94		
3	64QAM	15	0	18.77	19.01	18.96		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	18.59	18.85	18.77		
1.4	QPSK	1	3	18.62	18.96	18.83		
1.4	QPSK	1	5	18.54	18.90	18.75	20.5	0
1.4	QPSK	3	0	18.59	18.84	18.77		
1.4	QPSK	3	1	18.65	18.94	18.81		
1.4	QPSK	3	3	18.58	18.90	18.75		
1.4	QPSK	6	0	18.66	18.92	18.83	20.5	0
1.4	16QAM	1	0	18.93	19.17	19.06		
1.4	16QAM	1	3	18.98	19.31	19.12		
1.4	16QAM	1	5	18.93	19.24	19.07	20.5	0
1.4	16QAM	3	0	18.65	18.89	18.86		
1.4	16QAM	3	1	18.70	19.03	18.92		
1.4	16QAM	3	3	18.65	18.98	18.86		
1.4	16QAM	6	0	18.77	18.99	18.91	20.5	0
1.4	64QAM	1	0	18.79	19.09	18.98		
1.4	64QAM	1	3	18.90	19.15	19.04		
1.4	64QAM	1	5	18.76	19.05	18.94	20.5	0
1.4	64QAM	3	0	18.71	18.93	18.89		
1.4	64QAM	3	1	18.76	19.06	18.96		
1.4	64QAM	3	3	18.72	18.98	18.90		
1.4	64QAM	6	0	18.69	18.90	18.83	20.5	0

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	17.96	17.99	17.89		
20	QPSK	1	49	17.91	17.95	17.91	18.5	0
20	QPSK	1	99	17.94	17.92	17.84		
20	QPSK	50	0	17.77	17.81	17.72		
20	QPSK	50	24	17.80	17.78	17.78	18.5	0
20	QPSK	50	50	17.79	17.71	17.78		
20	QPSK	100	0	17.80	17.82	17.74		
20	16QAM	1	0	17.79	17.74	17.70		
20	16QAM	1	49	17.84	17.79	17.76	18.5	0
20	16QAM	1	99	17.90	17.84	17.84		
20	16QAM	50	0	17.70	17.64	17.62		
20	16QAM	50	24	17.77	17.71	17.67	18.5	0
20	16QAM	50	50	17.70	17.66	17.70		
20	16QAM	100	0	17.72	17.66	17.66		
20	64QAM	1	0	17.66	17.73	17.59		
20	64QAM	1	49	17.75	17.64	17.66	18.5	0
20	64QAM	1	99	17.98	17.78	17.86		
20	64QAM	50	0	17.72	17.61	17.60		
20	64QAM	50	24	17.70	17.69	17.68	18.5	0
20	64QAM	50	50	17.67	17.64	17.65		
20	64QAM	100	0	17.72	17.68	17.66		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.34	17.25	17.22		
15	QPSK	1	37	17.36	17.29	17.30	18.5	0
15	QPSK	1	74	17.37	17.35	17.35		
15	QPSK	36	0	17.53	17.46	17.42		
15	QPSK	36	20	17.49	17.49	17.43	18.5	0
15	QPSK	36	39	17.50	17.50	17.47		
15	QPSK	75	0	17.46	17.46	17.45		
15	16QAM	1	0	17.64	17.56	17.48		
15	16QAM	1	37	17.64	17.57	17.53	18.5	0
15	16QAM	1	74	17.75	17.68	17.63		
15	16QAM	36	0	17.52	17.46	17.43		
15	16QAM	36	20	17.50	17.47	17.47	18.5	0
15	16QAM	36	39	17.50	17.51	17.48		
15	16QAM	75	0	17.49	17.48	17.47		
15	64QAM	1	0	17.54	17.56	17.54		
15	64QAM	1	37	17.63	17.49	17.45	18.5	0
15	64QAM	1	74	17.69	17.60	17.63		
15	64QAM	36	0	17.50	17.43	17.40		
15	64QAM	36	20	17.51	17.48	17.44	18.5	0
15	64QAM	36	39	17.49	17.51	17.49		
15	64QAM	75	0	17.49	17.48	17.44		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.59	17.49	17.42		
10	QPSK	1	25	17.57	17.52	17.52	18.5	0
10	QPSK	1	49	17.61	17.59	17.65		
10	QPSK	25	0	17.69	17.58	17.56		
10	QPSK	25	12	17.70	17.61	17.62	18.5	0
10	QPSK	25	25	17.67	17.63	17.64		
10	QPSK	50	0	17.59	17.60	17.59		
10	16QAM	1	0	17.83	17.76	17.74		
10	16QAM	1	25	17.77	17.79	17.80	18.5	0
10	16QAM	1	49	17.91	17.88	17.85		
10	16QAM	25	0	17.70	17.66	17.60		
10	16QAM	25	12	17.74	17.71	17.63	18.5	0
10	16QAM	25	25	17.66	17.64	17.68		
10	16QAM	50	0	17.63	17.65	17.62		
10	64QAM	1	0	17.77	17.70	17.65		
10	64QAM	1	25	17.81	17.74	17.70	18.5	0
10	64QAM	1	49	17.83	17.79	17.80		
10	64QAM	25	0	17.70	17.60	17.63		
10	64QAM	25	12	17.70	17.64	17.63	18.5	0
10	64QAM	25	25	17.67	17.64	17.66		
10	64QAM	50	0	17.60	17.62	17.61		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.53	17.46	17.45		
5	QPSK	1	12	17.63	17.52	17.53	18.5	0
5	QPSK	1	24	17.59	17.54	17.55		
5	QPSK	12	0	17.59	17.53	17.55		
5	QPSK	12	7	17.69	17.62	17.60	18.5	0
5	QPSK	12	13	17.71	17.63	17.63		
5	QPSK	25	0	17.64	17.57	17.55		
5	16QAM	1	0	17.86	17.83	17.85		
5	16QAM	1	12	17.88	17.82	17.80	18.5	0
5	16QAM	1	24	17.80	17.88	17.90		
5	16QAM	12	0	17.63	17.54	17.55		
5	16QAM	12	7	17.70	17.63	17.68	18.5	0
5	16QAM	12	13	17.71	17.66	17.67		
5	16QAM	25	0	17.69	17.61	17.58		
5	64QAM	1	0	17.82	17.74	17.70		
5	64QAM	1	12	17.82	17.73	17.73	18.5	0
5	64QAM	1	24	17.89	17.81	17.87		
5	64QAM	12	0	17.63	17.57	17.53		
5	64QAM	12	7	17.68	17.63	17.64	18.5	0
5	64QAM	12	13	17.73	17.64	17.67		
5	64QAM	25	0	17.67	17.62	17.59		

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	19.48	19.53	19.50		
20	QPSK	1	49	19.50	19.49	19.36	20.5	0
20	QPSK	1	99	19.42	19.37	19.34		
20	QPSK	50	0	19.27	19.35	19.21		
20	QPSK	50	24	19.32	19.25	19.19	20.5	0
20	QPSK	50	50	19.30	19.26	19.22		
20	QPSK	100	0	19.32	19.38	19.17		
20	16QAM	1	0	19.36	19.28	19.37		
20	16QAM	1	49	19.29	19.25	19.19	20.5	0
20	16QAM	1	99	19.22	19.17	19.15		
20	16QAM	50	0	19.01	19.00	18.94		
20	16QAM	50	24	19.07	18.97	18.93	20.5	0
20	16QAM	50	50	19.01	18.98	18.96		
20	16QAM	100	0	19.06	18.94	18.90		
20	64QAM	1	0	19.20	19.23	19.25		
20	64QAM	1	49	19.09	19.12	19.09	20.5	0
20	64QAM	1	99	18.95	19.04	19.06		
20	64QAM	50	0	19.00	18.98	18.95		
20	64QAM	50	24	19.05	18.95	18.91	20.5	0
20	64QAM	50	50	19.03	18.99	18.92		
20	64QAM	100	0	19.04	18.95	18.91		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.89	18.93	18.90		
15	QPSK	1	37	18.90	18.90	18.87	20.5	0
15	QPSK	1	74	18.86	18.83	18.79		
15	QPSK	36	0	19.03	18.95	18.89		
15	QPSK	36	20	19.00	18.92	18.87	20.5	0
15	QPSK	36	39	18.98	18.97	18.90		
15	QPSK	75	0	19.02	18.95	18.84		
15	16QAM	1	0	19.27	19.34	19.28		
15	16QAM	1	37	19.24	19.16	19.18	20.5	0
15	16QAM	1	74	19.19	19.14	19.13		
15	16QAM	36	0	19.07	18.96	18.93		
15	16QAM	36	20	19.05	18.96	18.90	20.5	0
15	16QAM	36	39	18.99	18.98	18.93		
15	16QAM	75	0	19.06	18.93	18.87		
15	64QAM	1	0	19.20	19.14	19.18		
15	64QAM	1	37	19.08	19.05	19.09	20.5	0
15	64QAM	1	74	19.00	18.89	19.08		
15	64QAM	36	0	19.04	18.94	18.90		
15	64QAM	36	20	19.03	18.95	18.93	20.5	0
15	64QAM	36	39	19.00	18.99	18.93		
15	64QAM	75	0	19.06	18.94	18.88		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.06	19.05	19.00		
10	QPSK	1	25	18.98	19.09	18.91	20.5	0
10	QPSK	1	49	18.96	19.00	18.86		
10	QPSK	25	0	19.14	19.07	19.09		
10	QPSK	25	12	19.13	19.06	19.08	20.5	0
10	QPSK	25	25	19.09	19.09	19.00		
10	QPSK	50	0	19.11	19.05	19.04		
10	16QAM	1	0	19.34	19.34	19.31		
10	16QAM	1	25	19.29	19.20	19.18	20.5	0
10	16QAM	1	49	19.29	19.29	19.20		
10	16QAM	25	0	19.21	19.10	19.11		
10	16QAM	25	12	19.20	19.08	19.08	20.5	0
10	16QAM	25	25	19.14	19.11	19.08		
10	16QAM	50	0	19.17	19.08	19.10		
10	64QAM	1	0	19.29	19.22	19.22		
10	64QAM	1	25	19.16	19.14	19.14	20.5	0
10	64QAM	1	49	19.16	19.12	19.11		
10	64QAM	25	0	19.18	19.05	19.07		
10	64QAM	25	12	19.13	19.09	19.12	20.5	0
10	64QAM	25	25	19.10	19.11	19.01		
10	64QAM	50	0	19.11	19.03	19.05		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.05	18.98	19.00		
5	QPSK	1	12	18.99	19.02	18.95	20.5	0
5	QPSK	1	24	19.03	18.99	18.92		
5	QPSK	12	0	19.14	19.07	19.04		
5	QPSK	12	7	19.14	19.12	19.03	20.5	0
5	QPSK	12	13	19.11	19.08	19.06		
5	QPSK	25	0	19.13	19.08	19.02		
5	16QAM	1	0	19.50	19.42	19.35		
5	16QAM	1	12	19.40	19.46	19.31	20.5	0
5	16QAM	1	24	19.42	19.37	19.30		
5	16QAM	12	0	19.18	19.10	19.09		
5	16QAM	12	7	19.20	19.15	19.09	20.5	0
5	16QAM	12	13	19.13	19.12	19.05		
5	16QAM	25	0	19.15	19.08	19.06		
5	64QAM	1	0	19.43	19.41	19.30		
5	64QAM	1	12	19.39	19.44	19.26	20.5	0
5	64QAM	1	24	19.30	19.37	19.22		
5	64QAM	12	0	19.17	19.08	19.07		
5	64QAM	12	7	19.17	19.12	19.07	20.5	0
5	64QAM	12	13	19.10	19.13	19.04		
5	64QAM	25	0	19.16	19.08	19.05		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.02	19.03	18.97		
3	QPSK	1	8	19.03	19.05	18.99	20.5	0
3	QPSK	1	14	18.99	19.01	18.92		
3	QPSK	8	0	19.12	19.11	19.04		
3	QPSK	8	4	19.13	19.15	19.02	20.5	0
3	QPSK	8	7	19.13	19.08	18.99		
3	QPSK	15	0	19.14	19.12	19.03		
3	16QAM	1	0	19.43	19.40	19.26		
3	16QAM	1	8	19.47	19.43	19.37	20.5	0
3	16QAM	1	14	19.37	19.32	19.17		
3	16QAM	8	0	19.19	19.23	19.05		
3	16QAM	8	4	19.25	19.20	19.10	20.5	0
3	16QAM	8	7	19.17	19.19	19.07		
3	16QAM	15	0	19.16	19.15	19.08		
3	64QAM	1	0	19.31	19.36	19.19		
3	64QAM	1	8	19.49	19.40	19.26	20.5	0
3	64QAM	1	14	19.36	19.32	19.15		
3	64QAM	8	0	19.18	19.12	19.06		
3	64QAM	8	4	19.20	19.20	19.09	20.5	0
3	64QAM	8	7	19.14	19.18	19.03		
3	64QAM	15	0	19.13	19.15	19.00		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.95	18.97	18.82		
1.4	QPSK	1	3	19.01	19.05	18.92		
1.4	QPSK	1	5	18.94	18.94	18.85	20.5	0
1.4	QPSK	3	0	18.96	18.97	18.89		
1.4	QPSK	3	1	18.99	19.02	18.90		
1.4	QPSK	3	3	18.96	18.95	18.88		
1.4	QPSK	6	0	19.02	19.04	18.91	20.5	0
1.4	16QAM	1	0	19.29	19.31	19.22		
1.4	16QAM	1	3	19.38	19.40	19.27		
1.4	16QAM	1	5	19.29	19.30	19.18	20.5	0
1.4	16QAM	3	0	19.05	19.13	18.96		
1.4	16QAM	3	1	19.11	19.18	19.01		
1.4	16QAM	3	3	19.07	19.07	18.95		
1.4	16QAM	6	0	19.13	19.02	18.97	20.5	0
1.4	64QAM	1	0	19.25	19.25	19.13		
1.4	64QAM	1	3	19.33	19.35	19.18		
1.4	64QAM	1	5	19.22	19.18	19.11	20.5	0
1.4	64QAM	3	0	19.13	19.12	19.03		
1.4	64QAM	3	1	19.19	19.20	19.07		
1.4	64QAM	3	3	19.11	19.16	19.03		
1.4	64QAM	6	0	19.08	19.09	18.94	20.5	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	19.63	19.78	19.74	20	0
20	QPSK	1	49	19.45	19.62	19.67		
20	QPSK	1	99	19.62	19.63	19.67		
20	QPSK	50	0	19.36	19.75	19.57	20	0
20	QPSK	50	24	19.50	19.60	19.72		
20	QPSK	50	50	19.52	19.68	19.72		
20	QPSK	100	0	19.48	19.69	19.63		
20	16QAM	1	0	19.32	19.44	19.46	20	0
20	16QAM	1	49	19.34	19.49	19.53		
20	16QAM	1	99	19.50	19.51	19.64		
20	16QAM	50	0	19.18	19.33	19.39	20	0
20	16QAM	50	24	19.34	19.40	19.55		
20	16QAM	50	50	19.36	19.49	19.55		
20	16QAM	100	0	19.32	19.39	19.54		
20	64QAM	1	0	19.03	19.17	19.35	20	0
20	64QAM	1	49	19.02	19.17	19.26		
20	64QAM	1	99	19.13	19.38	19.33		
20	64QAM	50	0	19.12	19.29	19.32	20	0
20	64QAM	50	24	19.29	19.35	19.49		
20	64QAM	50	50	19.31	19.45	19.49		
20	64QAM	100	0	19.37	19.43	19.56		
Channel				37825	38000	38175	Tune-up limit	MPR
Frequency (MHz)				2577.5	2595	2612.5	(dBm)	(dB)
15	QPSK	1	0	19.28	19.45	19.54	20	0
15	QPSK	1	37	19.37	19.53	19.61		
15	QPSK	1	74	19.51	19.64	19.62		
15	QPSK	36	0	19.33	19.52	19.57	20	0
15	QPSK	36	20	19.49	19.61	19.63		
15	QPSK	36	39	19.47	19.65	19.70		
15	QPSK	75	0	19.45	19.58	19.61		
15	16QAM	1	0	19.27	19.46	19.52	20	0
15	16QAM	1	37	19.28	19.46	19.51		
15	16QAM	1	74	19.44	19.54	19.64		
15	16QAM	36	0	19.12	19.29	19.39	20	0
15	16QAM	36	20	19.28	19.38	19.45		
15	16QAM	36	39	19.28	19.42	19.49		
15	16QAM	75	0	19.29	19.38	19.43		
15	64QAM	1	0	19.03	19.16	19.29	20	0
15	64QAM	1	37	19.05	19.22	19.28		
15	64QAM	1	74	19.06	19.39	19.32		
15	64QAM	36	0	19.14	19.32	19.39	20	0
15	64QAM	36	20	19.32	19.40	19.46		
15	64QAM	36	39	19.29	19.44	19.51		
15	64QAM	75	0	19.28	19.39	19.45		
Channel				37800	38000	38200	Tune-up limit	MPR
Frequency (MHz)				2575	2595	2615	(dBm)	(dB)
10	QPSK	1	0	19.30	19.58	19.68	20	0
10	QPSK	1	25	19.40	19.68	19.74		
10	QPSK	1	49	19.47	19.71	19.75		
10	QPSK	25	0	19.36	19.46	19.54	20	0
10	QPSK	25	12	19.39	19.52	19.68		
10	QPSK	25	25	19.38	19.60	19.64		
10	QPSK	50	0	19.37	19.53	19.54		
10	16QAM	1	0	19.35	19.56	19.61	20	0
10	16QAM	1	25	19.40	19.66	19.68		
10	16QAM	1	49	19.41	19.61	19.67		
10	16QAM	25	0	19.38	19.52	19.55	20	0
10	16QAM	25	12	19.45	19.57	19.70		
10	16QAM	25	25	19.37	19.65	19.68		
10	16QAM	50	0	19.43	19.54	19.60		
10	64QAM	1	0	19.23	19.37	19.45	20	0
10	64QAM	1	25	19.09	19.34	19.42		
10	64QAM	1	49	19.27	19.51	19.52		
10	64QAM	25	0	19.35	19.47	19.56	20	0
10	64QAM	25	12	19.36	19.54	19.67		
10	64QAM	25	25	19.34	19.60	19.67		
10	64QAM	50	0	19.33	19.46	19.55		
Channel				37775	38000	38225	Tune-up limit	MPR
Frequency (MHz)				2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	19.48	19.64	19.73	20	0
5	QPSK	1	12	19.44	19.65	19.69		
5	QPSK	1	24	19.46	19.67	19.71		
5	QPSK	12	0	19.36	19.51	19.64	20	0
5	QPSK	12	7	19.41	19.55	19.65		
5	QPSK	12	13	19.35	19.59	19.67		
5	QPSK	25	0	19.37	19.53	19.65		
5	16QAM	1	0	19.49	19.57	19.71	20	0
5	16QAM	1	12	19.52	19.70	19.75		
5	16QAM	1	24	19.55	19.69	19.69		
5	16QAM	12	0	19.36	19.51	19.64	20	0
5	16QAM	12	7	19.36	19.55	19.64		
5	16QAM	12	13	19.36	19.59	19.64		
5	16QAM	25	0	19.39	19.58	19.69		
5	64QAM	1	0	19.21	19.37	19.44	20	0
5	64QAM	1	12	19.10	19.30	19.36		
5	64QAM	1	24	19.21	19.36	19.45		
5	64QAM	12	0	19.34	19.49	19.62	20	0
5	64QAM	12	7	19.36	19.53	19.64		
5	64QAM	12	13	19.33	19.57	19.62		
5	64QAM	25	0	19.33	19.50	19.62		

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				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.11	18.99	19.29	19.12	19.22	20	0
20	QPSK	1	49	19.09	19.05	19.17	18.92	19.02		
20	QPSK	1	99	19.08	19.01	19.13	19.21	19.03		
20	QPSK	50	0	19.23	19.16	19.26	19.12	19.20	20	0
20	QPSK	50	24	19.25	19.18	19.12	19.12	19.12		
20	QPSK	50	50	19.15	19.16	19.12	18.93	18.97		
20	QPSK	100	0	19.23	19.16	19.24	18.99	19.06		
20	16QAM	1	0	19.21	19.13	19.13	19.24	19.03	20	0
20	16QAM	1	49	19.21	19.12	19.11	19.03	19.13		
20	16QAM	1	99	19.27	19.18	19.12	19.13	19.12		
20	16QAM	50	0	19.26	19.19	19.25	19.08	19.20	20	0
20	16QAM	50	24	19.27	19.21	19.11	19.01	19.11		
20	16QAM	50	50	19.16	19.20	19.12	18.94	18.99		
20	16QAM	100	0	19.26	19.20	19.11	18.99	19.07		
20	64QAM	1	0	19.01	18.83	19.11	18.96	19.08	20	0
20	64QAM	1	49	18.93	18.89	18.97	18.75	18.85		
20	64QAM	1	99	18.87	19.06	19.09	18.66	18.63		
20	64QAM	50	0	19.19	19.11	19.19	19.02	19.13	20	0
20	64QAM	50	24	19.20	19.14	19.12	18.95	19.04		
20	64QAM	50	50	19.10	19.15	19.12	18.87	18.92		
20	64QAM	100	0	19.10	19.25	19.08	19.03	19.11		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	19.06	19.07	19.14	19.13	19.20	20	0
15	QPSK	1	37	19.02	18.96	19.12	19.07	19.21		
15	QPSK	1	74	19.08	19.02	19.20	19.03	19.23		
15	QPSK	36	0	19.19	19.13	19.23	19.23	19.22	20	0
15	QPSK	36	20	19.22	19.14	19.14	19.21	19.12		
15	QPSK	36	39	19.22	19.14	19.12	19.09	19.07		
15	QPSK	75	0	19.24	19.17	19.12	19.17	19.19		
15	16QAM	1	0	19.21	19.22	19.13	19.13	19.23	20	0
15	16QAM	1	37	19.16	19.07	19.26	19.18	19.22		
15	16QAM	1	74	19.24	19.19	19.13	19.14	19.08		
15	16QAM	36	0	19.17	19.13	19.21	19.20	19.27	20	0
15	16QAM	36	20	19.22	19.12	19.28	19.11	19.14		
15	16QAM	36	39	19.21	19.12	19.13	19.06	19.04		
15	16QAM	75	0	19.02	19.18	19.11	19.17	19.19		
15	64QAM	1	0	19.04	18.93	19.08	19.17	19.27	20	0
15	64QAM	1	37	19.00	18.90	18.99	18.91	18.95		
15	64QAM	1	74	18.95	19.07	19.09	18.87	18.81		
15	64QAM	36	0	19.23	19.15	19.23	19.23	19.12	20	0
15	64QAM	36	20	19.25	19.14	19.13	19.14	19.17		
15	64QAM	36	39	19.24	19.15	19.12	19.08	19.07		
15	64QAM	75	0	19.26	19.18	19.13	19.15	19.19		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	19.13	19.20	19.13	19.28	19.17	20	0
10	QPSK	1	25	19.28	19.18	19.12	19.08	18.88		
10	QPSK	1	49	19.13	19.16	19.11	19.11	19.11		
10	QPSK	25	0	19.08	19.02	19.03	19.23	19.12	20	0
10	QPSK	25	12	19.12	19.03	19.21	19.22	19.13		
10	QPSK	25	25	19.11	19.11	19.22	19.15	19.22		
10	QPSK	50	0	19.12	19.04	19.12	19.18	18.98		
10	16QAM	1	0	19.13	19.12	19.12	19.07	19.12	20	0
10	16QAM	1	25	19.12	19.10	19.22	19.20	19.13		
10	16QAM	1	49	19.08	19.27	19.21	19.20	19.23		
10	16QAM	25	0	19.09	19.14	19.06	19.27	19.11	20	0
10	16QAM	25	12	19.13	19.13	19.22	19.21	19.23		
10	16QAM	25	25	19.13	19.13	19.21	19.16	19.22		
10	16QAM	50	0	19.13	19.08	19.22	19.20	19.12		
10	64QAM	1	0	19.26	19.28	19.26	19.15	19.03	20	0
10	64QAM	1	25	19.13	19.06	19.21	18.93	19.22		
10	64QAM	1	49	19.21	19.10	19.07	18.94	19.21		
10	64QAM	25	0	19.09	19.27	19.13	19.22	19.06	20	0
10	64QAM	25	12	19.12	19.13	19.11	19.15	19.23		
10	64QAM	25	25	19.12	19.12	19.22	19.11	19.23		
10	64QAM	50	0	19.12	19.27	19.13	19.13	18.93		
Channel				39675	40148	40620	41093	41565	Tune-up limit	MPR
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)	(dB)
5	QPSK	1	0	19.13	19.16	19.13	19.08	19.08	20	0
5	QPSK	1	12	19.13	19.19	19.07	19.24	19.21		
5	QPSK	1	24	19.25	19.16	19.11	19.25	19.15		
5	QPSK	12	0	19.07	19.12	19.13	19.12	19.23	20	0
5	QPSK	12	7	19.12	19.08	19.13	19.05	19.13		
5	QPSK	12	13	19.13	19.12	19.11	19.14	19.25		
5	QPSK	25	0	19.08	19.12	19.12	19.11	19.27		
5	16QAM	1	0	19.12	19.11	19.23	19.12	19.21	20	0
5	16QAM	1	12	19.23	19.12	19.23	19.03	19.13		
5	16QAM	1	24	19.22	19.13	19.23	19.21	19.13		
5	16QAM	12	0	19.07	19.11	19.12	19.02	19.12	20	0
5	16QAM	12	7	19.13	19.13	19.12	19.01	19.28		
5	16QAM	12	13	19.22	19.13	19.11	19.27	19.22		
5	16QAM	25	0	19.12	19.13	19.22	19.13	19.12		
5	64QAM	1	0	19.19	19.07	19.15	19.25	19.27	20	0
5	64QAM	1	12	19.10	19.01	19.18	19.09	19.07		
5	64QAM	1	24	19.16	19.11	19.02	19.15	19.06		
5	64QAM	12	0	19.05	19.27	19.12	19.14	19.13	20	0
5	64QAM	12	7	19.12	19.12	19.11	19.12	19.27		
5	64QAM	12	13	19.02	19.03	19.11	19.27	19.20		
5	64QAM	25	0	19.07	19.28	19.10	19.26	19.24		

Reduced power Mode for Hotspot On for ANT1

Band 7 (2600MHz Band)
Part 27-ENDC

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	12.23	12.39	12.32	13	0
20	QPSK	1	49	12.26	12.19	12.12		
20	QPSK	1	99	12.31	12.24	12.22		
20	QPSK	50	0	12.22	12.34	12.33	13	0
20	QPSK	50	24	12.12	12.21	12.33		
20	QPSK	50	50	12.04	12.17	12.19		
20	QPSK	100	0	12.01	12.23	12.16		
20	16QAM	1	0	12.03	12.09	12.03	13	0
20	16QAM	1	49	12.01	12.17	12.10		
20	16QAM	1	99	12.03	12.19	12.17		
20	16QAM	50	0	12.30	12.22	12.17	13	0
20	16QAM	50	24	12.32	12.25	12.22		
20	16QAM	50	50	12.29	12.23	12.23		
20	16QAM	100	0	12.24	12.16	12.17		
20	64QAM	1	0	12.27	12.14	12.07	13	0
20	64QAM	1	49	12.28	12.20	12.11		
20	64QAM	1	99	12.33	12.27	12.20		
20	64QAM	50	0	12.26	12.20	12.16	13	0
20	64QAM	50	24	12.28	12.23	12.20		
20	64QAM	50	50	12.27	12.21	12.21		
20	64QAM	100	0	12.24	12.14	12.18		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	12.07	12.01	11.89	13	0
15	QPSK	1	37	12.11	12.03	11.96		
15	QPSK	1	74	12.13	12.09	12.03		
15	QPSK	36	0	12.11	11.95	11.95	13	0
15	QPSK	36	20	12.10	11.98	11.95		
15	QPSK	36	39	12.05	11.96	12.01		
15	QPSK	75	0	12.11	11.90	11.95		
15	16QAM	1	0	12.25	12.16	12.05	13	0
15	16QAM	1	37	12.27	12.15	12.11		
15	16QAM	1	74	12.29	12.22	12.17		
15	16QAM	36	0	12.08	11.97	11.93	13	0
15	16QAM	36	20	12.12	11.98	11.96		
15	16QAM	36	39	12.05	12.00	12.01		
15	16QAM	75	0	12.16	11.95	11.97		
15	64QAM	1	0	12.14	12.02	11.92	13	0
15	64QAM	1	37	12.14	12.04	11.98		
15	64QAM	1	74	12.16	12.08	12.00		
15	64QAM	36	0	12.07	11.99	11.95	13	0
15	64QAM	36	20	12.13	11.96	11.96		
15	64QAM	36	39	12.05	12.00	12.00		
15	64QAM	75	0	12.12	11.96	11.96		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	12.03	12.21	12.18	13	0
10	QPSK	1	25	12.34	12.29	12.19		
10	QPSK	1	49	12.04	12.28	12.28		
10	QPSK	25	0	12.27	12.16	12.10	13	0
10	QPSK	25	12	12.29	12.16	12.15		
10	QPSK	25	25	12.24	12.15	12.11		
10	QPSK	50	0	12.15	12.05	12.10		
10	16QAM	1	0	11.94	12.13	12.06	13	0
10	16QAM	1	25	12.20	12.11	12.04		
10	16QAM	1	49	12.16	12.19	12.16		
10	16QAM	25	0	12.28	12.16	12.11	13	0
10	16QAM	25	12	12.27	12.12	12.12		
10	16QAM	25	25	12.25	12.11	12.13		
10	16QAM	50	0	12.16	12.08	12.09		
10	64QAM	1	0	12.31	12.23	12.16	13	0
10	64QAM	1	25	12.30	12.20	12.16		
10	64QAM	1	49	12.36	12.30	12.26		
10	64QAM	25	0	12.27	12.15	12.11	13	0
10	64QAM	25	12	12.27	12.11	12.12		
10	64QAM	25	25	12.24	12.10	12.11		
10	64QAM	50	0	12.16	12.05	12.08		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	12.36	12.26	12.19	13	0
5	QPSK	1	12	12.36	12.27	12.20		
5	QPSK	1	24	12.14	12.22	12.26		
5	QPSK	12	0	12.20	12.12	12.04	13	0
5	QPSK	12	7	12.28	12.21	12.11		
5	QPSK	12	13	12.31	12.17	12.17		
5	QPSK	25	0	12.24	12.05	12.10		
5	16QAM	1	0	12.24	12.14	12.04	13	0
5	16QAM	1	12	12.23	12.13	12.07		
5	16QAM	1	24	12.07	12.16	12.15		
5	16QAM	12	0	12.17	12.09	12.05	13	0
5	16QAM	12	7	12.32	12.17	12.13		
5	16QAM	12	13	12.32	12.13	12.14		
5	16QAM	25	0	12.27	12.09	12.10		
5	64QAM	1	0	12.36	12.28	12.17	13	0
5	64QAM	1	12	12.13	12.25	12.21		
5	64QAM	1	24	12.27	12.23	12.28		
5	64QAM	12	0	12.15	12.06	12.05	13	0
5	64QAM	12	7	12.30	12.15	12.11		
5	64QAM	12	13	12.31	12.10	12.11		
5	64QAM	25	0	12.27	12.07	12.09		

Band 66-ENDC

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	14.48	14.76	14.65	16	0
20	QPSK	1	49	14.47	14.44	14.35		
20	QPSK	1	99	14.56	14.54	14.55		
20	QPSK	50	0	14.60	14.61	14.45	16	0
20	QPSK	50	24	14.59	14.48	14.42		
20	QPSK	50	50	14.53	14.50	14.41		
20	QPSK	100	0	14.63	14.64	14.38		
20	16QAM	1	0	14.52	14.49	14.49	16	0
20	16QAM	1	49	14.48	14.47	14.36		
20	16QAM	1	99	14.41	14.36	14.29		
20	16QAM	50	0	14.20	14.19	14.15	16	0
20	16QAM	50	24	14.29	14.17	14.12		
20	16QAM	50	50	14.21	14.18	14.13		
20	16QAM	100	0	14.26	14.17	14.12		
20	64QAM	1	0	14.44	14.36	14.30	16	0
20	64QAM	1	49	14.33	14.24	14.13		
20	64QAM	1	99	14.21	14.10	14.14		
20	64QAM	50	0	14.22	14.19	14.15	16	0
20	64QAM	50	24	14.28	14.18	14.12		
20	64QAM	50	50	14.20	14.18	14.12		
20	64QAM	100	0	14.29	14.16	14.13		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	14.49	14.46	14.41	16	0
15	QPSK	1	37	14.46	14.43	14.36		
15	QPSK	1	74	14.39	14.38	14.30		
15	QPSK	36	0	14.50	14.52	14.41	16	0
15	QPSK	36	20	14.60	14.46	14.47		
15	QPSK	36	39	14.57	14.47	14.42		
15	QPSK	75	0	14.56	14.49	14.42		
15	16QAM	1	0	14.49	14.44	14.50	16	0
15	16QAM	1	37	14.46	14.43	14.37		
15	16QAM	1	74	14.36	14.38	14.31		
15	16QAM	36	0	14.27	14.21	14.13	16	0
15	16QAM	36	20	14.27	14.20	14.13		
15	16QAM	36	39	14.20	14.18	14.13		
15	16QAM	75	0	14.25	14.15	14.11		
15	64QAM	1	0	14.32	14.37	14.26	16	0
15	64QAM	1	37	14.29	14.30	14.20		
15	64QAM	1	74	14.21	14.12	14.14		
15	64QAM	36	0	14.28	14.19	14.12	16	0
15	64QAM	36	20	14.25	14.15	14.10		
15	64QAM	36	39	14.22	14.19	14.13		
15	64QAM	75	0	14.27	14.16	14.10		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	14.69	14.63	14.54	16	0
10	QPSK	1	25	14.58	14.59	14.47		
10	QPSK	1	49	14.55	14.53	14.44		
10	QPSK	25	0	14.53	14.42	14.44	16	0
10	QPSK	25	12	14.50	14.38	14.39		
10	QPSK	25	25	14.48	14.45	14.36		
10	QPSK	50	0	14.50	14.42	14.38		
10	16QAM	1	0	14.63	14.58	14.52	16	0
10	16QAM	1	25	14.53	14.56	14.44		
10	16QAM	1	49	14.58	14.57	14.46		
10	16QAM	25	0	14.43	14.37	14.34	16	0
10	16QAM	25	12	14.41	14.35	14.33		
10	16QAM	25	25	14.38	14.37	14.28		
10	16QAM	50	0	14.39	14.34	14.33		
10	64QAM	1	0	14.52	14.49	14.42	16	0
10	64QAM	1	25	14.45	14.46	14.35		
10	64QAM	1	49	14.44	14.39	14.32		
10	64QAM	25	0	14.40	14.30	14.27	16	0
10	64QAM	25	12	14.39	14.30	14.34		
10	64QAM	25	25	14.33	14.35	14.23		
10	64QAM	50	0	14.37	14.29	14.28		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	14.65	14.57	14.51	16	0
5	QPSK	1	12	14.64	14.64	14.50		
5	QPSK	1	24	14.63	14.59	14.48		
5	QPSK	12	0	14.56	14.42	14.38	16	0
5	QPSK	12	7	14.55	14.50	14.38		
5	QPSK	12	13	14.51	14.49	14.32		
5	QPSK	25	0	14.54	14.44	14.32		
5	16QAM	1	0	14.45	14.67	14.60	16	0
5	16QAM	1	12	14.67	14.68	14.57		
5	16QAM	1	24	14.67	14.64	14.55		
5	16QAM	12	0	14.42	14.37	14.34	16	0
5	16QAM	12	7	14.43	14.44	14.33		
5	16QAM	12	13	14.39	14.41	14.27		
5	16QAM	25	0	14.45	14.32	14.28		
5	64QAM	1	0	14.71	14.59	14.52	16	0
5	64QAM	1	12	14.68	14.61	14.43		
5	64QAM	1	24	14.54	14.59	14.45		
5	64QAM	12	0	14.38	14.34	14.31	16	0
5	64QAM	12	7	14.40	14.41	14.31		
5	64QAM	12	13	14.37	14.38	14.27		
5	64QAM	25	0	14.41	14.34	14.29		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	14.64	14.57	14.46	16	0
3	QPSK	1	8	14.67	14.65	14.50		
3	QPSK	1	14	14.61	14.56	14.43		
3	QPSK	8	0	14.54	14.49	14.36	16	0
3	QPSK	8	4	14.55	14.50	14.40		
3	QPSK	8	7	14.50	14.45	14.34		
3	QPSK	15	0	14.56	14.50	14.40		
3	16QAM	1	0	14.70	14.64	14.53	16	0
3	16QAM	1	8	14.75	14.69	14.57		
3	16QAM	1	14	14.64	14.63	14.50		
3	16QAM	8	0	14.48	14.46	14.33	16	0
3	16QAM	8	4	14.50	14.46	14.34		
3	16QAM	8	7	14.47	14.43	14.29		
3	16QAM	15	0	14.36	14.38	14.26		
3	64QAM	1	0	14.57	14.59	14.46	16	0
3	64QAM	1	8	14.67	14.69	14.48		
3	64QAM	1	14	14.53	14.55	14.42		
3	64QAM	8	0	14.40	14.40	14.27	16	0
3	64QAM	8	4	14.40	14.43	14.29		
3	64QAM	8	7	14.36	14.37	14.26		
3	64QAM	15	0	14.34	14.36	14.25		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	14.57	14.50	14.42	16	0
1.4	QPSK	1	3	14.60	14.58	14.47		
1.4	QPSK	1	5	14.52	14.54	14.40		
1.4	QPSK	3	0	14.54	14.53	14.41		
1.4	QPSK	3	1	14.60	14.57	14.45		
1.4	QPSK	3	3	14.53	14.53	14.40		
1.4	QPSK	6	0	14.43	14.42	14.28	16	0
1.4	16QAM	1	0	14.60	14.55	14.41	16	0
1.4	16QAM	1	3	14.64	14.62	14.46		
1.4	16QAM	1	5	14.52	14.56	14.43		
1.4	16QAM	3	0	14.39	14.37	14.22		
1.4	16QAM	3	1	14.41	14.44	14.31		
1.4	16QAM	3	3	14.34	14.38	14.26		
1.4	16QAM	6	0	14.37	14.43	14.27	16	0
1.4	64QAM	1	0	14.42	14.46	14.31	16	0
1.4	64QAM	1	3	14.51	14.46	14.37		
1.4	64QAM	1	5	14.44	14.42	14.30		
1.4	64QAM	3	0	14.34	14.31	14.20		
1.4	64QAM	3	1	14.41	14.43	14.24		
1.4	64QAM	3	3	14.34	14.36	14.17		
1.4	64QAM	6	0	14.29	14.33	14.20	16	0

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.30	24.39	24.30	25.50	15.30	15.39	15.30	16.50
GPRS 1 Tx slot	24.28	24.37	24.26	25.50	15.28	15.37	15.26	16.50
GPRS 2 Tx slots	21.92	22.27	22.16	23.00	15.92	16.27	16.16	17.00
GPRS 3 Tx slots	20.83	21.17	21.05	22.00	16.57	16.91	16.79	17.74
GPRS 4 Tx slots	18.91	19.06	19.04	20.00	15.91	16.06	16.04	17.00
EDGE 1 Tx slot	20.11	20.47	20.29	21.00	11.11	11.47	11.29	12.00
EDGE 2 Tx slots	18.41	18.37	18.38	19.50	12.41	12.37	12.38	13.50
EDGE 3 Tx slots	17.42	17.56	17.47	18.50	13.16	13.30	13.21	14.24
EDGE 4 Tx slots	15.42	15.37	15.41	16.50	12.42	12.37	12.41	13.50

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (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	1752.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	16.11	16.30	16.11	17.00	18.14	18.40	18.32	19.00
3GPP Rel 99	RMC 12.2Kbps	16.11	16.35	16.13	17.00	18.15	18.41	18.33	19.00
3GPP Rel 6	HSDPA Subtest-1	14.98	14.99	14.98	16.00	17.02	17.18	17.15	18.00
3GPP Rel 6	HSDPA Subtest-2	14.97	15.02	15.02	16.00	17.00	17.19	17.14	18.00
3GPP Rel 6	HSDPA Subtest-3	14.50	14.51	14.47	15.50	16.61	16.80	16.74	17.50
3GPP Rel 6	HSDPA Subtest-4	14.49	14.53	14.48	15.50	16.61	16.79	16.74	17.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.92	14.95	14.93	16.00	17.10	17.15	17.13	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.96	15.01	14.96	16.00	17.02	17.12	17.11	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	14.53	14.59	14.53	15.50	16.53	16.63	16.71	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	14.55	14.56	14.51	15.50	16.52	16.62	16.66	17.50
3GPP Rel 6	HSUPA Subtest-1	14.35	14.12	14.23	16.00	17.18	17.39	17.29	18.00
3GPP Rel 6	HSUPA Subtest-2	12.94	12.99	12.96	14.00	15.18	15.45	15.24	16.00
3GPP Rel 6	HSUPA Subtest-3	13.06	13.19	12.98	15.00	16.20	16.47	16.35	17.00
3GPP Rel 6	HSUPA Subtest-4	12.99	12.97	12.93	14.00	15.22	15.37	15.41	16.00
3GPP Rel 6	HSUPA Subtest-5	15.00	15.00	15.00	16.00	17.20	17.40	17.40	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	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	17.23	17.44	17.19		
20	QPSK	1	49	17.03	17.07	17.15	18	0
20	QPSK	1	99	17.11	17.01	17.15		
20	QPSK	50	0	17.20	17.30	17.28		
20	QPSK	50	24	17.17	17.15	17.20	18	0
20	QPSK	50	50	17.12	17.20	17.20		
20	QPSK	100	0	17.23	17.28	17.25		
20	16QAM	1	0	17.23	17.14	17.16		
20	16QAM	1	49	17.02	17.06	17.09	18	0
20	16QAM	1	99	16.93	17.03	16.90		
20	16QAM	50	0	17.11	17.06	17.15		
20	16QAM	50	24	17.08	17.03	17.12	18	0
20	16QAM	50	50	17.01	17.08	17.09		
20	16QAM	100	0	17.10	17.11	17.08		
20	64QAM	1	0	17.26	17.06	17.18		
20	64QAM	1	49	16.99	17.03	17.11	18	0
20	64QAM	1	99	16.87	17.06	16.91		
20	64QAM	50	0	17.11	17.05	17.15		
20	64QAM	50	24	17.07	17.00	17.10	18	0
20	64QAM	50	50	16.99	17.08	17.09		
20	64QAM	100	0	17.12	17.13	17.13		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.18	17.03	17.10		
15	QPSK	1	37	16.97	17.00	17.01	18	0
15	QPSK	1	74	16.89	17.00	16.88		
15	QPSK	36	0	17.14	17.09	17.15		
15	QPSK	36	20	17.13	17.16	17.12	18	0
15	QPSK	36	39	17.03	17.14	17.15		
15	QPSK	75	0	17.13	17.16	17.11		
15	16QAM	1	0	17.27	17.12	17.17		
15	16QAM	1	37	17.05	17.04	17.08	18	0
15	16QAM	1	74	16.90	17.04	16.97		
15	16QAM	36	0	17.07	17.06	17.10		
15	16QAM	36	20	17.10	17.12	17.10	18	0
15	16QAM	36	39	17.02	17.07	17.07		
15	16QAM	75	0	17.09	17.11	17.08		
15	64QAM	1	0	17.25	17.07	17.16		
15	64QAM	1	37	16.99	17.02	17.03	18	0
15	64QAM	1	74	16.95	17.06	16.94		
15	64QAM	36	0	17.08	17.06	17.13		
15	64QAM	36	20	17.07	17.13	17.10	18	0
15	64QAM	36	39	16.98	17.07	17.10		
15	64QAM	75	0	17.09	17.15	17.10		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.39	17.21	17.31		
10	QPSK	1	25	17.16	17.13	17.15	18	0
10	QPSK	1	49	17.04	17.11	17.10		
10	QPSK	25	0	17.39	17.19	17.29		
10	QPSK	25	12	17.32	17.16	17.24	18	0
10	QPSK	25	25	17.19	17.22	17.19		
10	QPSK	50	0	17.26	17.23	17.16		
10	16QAM	1	0	17.43	17.25	17.33		
10	16QAM	1	25	17.16	17.22	17.18	18	0
10	16QAM	1	49	17.09	17.18	17.18		
10	16QAM	25	0	17.18	17.04	17.10		
10	16QAM	25	12	17.11	16.99	17.05	18	0
10	16QAM	25	25	17.00	17.03	17.01		
10	16QAM	50	0	17.05	17.08	17.01		
10	64QAM	1	0	17.40	17.20	17.25		
10	64QAM	1	25	17.18	17.14	17.15	18	0
10	64QAM	1	49	17.03	17.10	17.07		
10	64QAM	25	0	17.15	16.96	17.02		
10	64QAM	25	12	17.11	16.99	16.99	18	0
10	64QAM	25	25	16.96	17.00	16.94		
10	64QAM	50	0	17.07	17.06	17.02		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.09	16.90	17.00		
5	QPSK	1	12	17.02	16.95	16.93	18	0
5	QPSK	1	24	16.90	16.89	16.80		
5	QPSK	12	0	17.18	17.02	17.06		
5	QPSK	12	7	17.13	17.05	16.98	18	0
5	QPSK	12	13	17.02	16.97	16.92		
5	QPSK	25	0	17.13	17.03	16.96		
5	16QAM	1	0	17.27	17.26	17.34		
5	16QAM	1	12	17.36	17.35	17.27	18	0
5	16QAM	1	24	17.25	17.25	17.17		
5	16QAM	12	0	17.23	17.03	17.13		
5	16QAM	12	7	17.13	17.07	17.05	18	0
5	16QAM	12	13	17.05	17.01	16.96		
5	16QAM	25	0	17.11	17.07	17.02		
5	64QAM	1	0	17.42	17.25	17.32		
5	64QAM	1	12	17.28	17.34	17.28	18	0
5	64QAM	1	24	17.22	17.22	17.16		
5	64QAM	12	0	17.19	17.03	17.09		
5	64QAM	12	7	17.09	17.02	17.02	18	0
5	64QAM	12	13	16.98	16.95	16.89		
5	64QAM	25	0	17.08	17.01	17.01		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	17.13	16.94	16.98		
3	QPSK	1	8	17.03	16.92	16.88	18	0
3	QPSK	1	14	16.86	16.83	16.72		
3	QPSK	8	0	17.17	16.99	17.00		
3	QPSK	8	4	17.13	17.00	16.93	18	0
3	QPSK	8	7	16.99	16.95	16.86		
3	QPSK	15	0	17.09	17.01	16.94		
3	16QAM	1	0	17.25	17.21	17.34		
3	16QAM	1	8	17.39	17.26	17.21	18	0
3	16QAM	1	14	17.22	17.15	17.07		
3	16QAM	8	0	17.22	17.08	17.09		
3	16QAM	8	4	17.17	17.09	17.03	18	0
3	16QAM	8	7	17.10	17.02	16.94		
3	16QAM	15	0	17.14	16.98	16.99		
3	64QAM	1	0	17.36	17.20	17.24		
3	64QAM	1	8	17.33	17.23	17.19	18	0
3	64QAM	1	14	17.15	17.13	17.02		
3	64QAM	8	0	17.20	17.02	17.02		
3	64QAM	8	4	17.16	17.04	16.99	18	0
3	64QAM	8	7	17.05	16.98	16.90		
3	64QAM	15	0	17.11	16.97	16.92		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.06	16.91	16.85		
1.4	QPSK	1	3	17.02	16.92	16.84		
1.4	QPSK	1	5	16.92	16.81	16.70	18	0
1.4	QPSK	3	0	17.00	16.86	16.76		
1.4	QPSK	3	1	17.04	16.91	16.83		
1.4	QPSK	3	3	16.96	16.81	16.72		
1.4	QPSK	6	0	17.08	16.92	16.81	18	0
1.4	16QAM	1	0	17.36	17.27	17.15		
1.4	16QAM	1	3	17.35	17.25	17.13		
1.4	16QAM	1	5	17.23	17.13	17.05	18	0
1.4	16QAM	3	0	17.12	17.03	16.92		
1.4	16QAM	3	1	17.16	17.07	16.96		
1.4	16QAM	3	3	17.06	16.94	16.85		
1.4	16QAM	6	0	17.08	16.96	16.91	18	0
1.4	64QAM	1	0	17.25	17.06	17.04		
1.4	64QAM	1	3	17.20	17.11	17.07		
1.4	64QAM	1	5	17.16	16.99	16.95	18	0
1.4	64QAM	3	0	17.14	16.99	16.94		
1.4	64QAM	3	1	17.19	17.07	16.94		
1.4	64QAM	3	3	17.07	16.95	16.82		
1.4	64QAM	6	0	17.08	16.97	16.86	18	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)				1720	1732.5	1745		
20	QPSK	1	0	18.36	18.51	18.41		
20	QPSK	1	49	18.28	18.40	18.25	19.5	0
20	QPSK	1	99	18.32	18.27	18.13		
20	QPSK	50	0	18.16	18.28	18.22		
20	QPSK	50	24	18.22	18.27	18.20	19.5	0
20	QPSK	50	50	18.18	18.20	18.04		
20	QPSK	100	0	18.20	18.23	18.19		
20	16QAM	1	0	18.29	18.15	18.27		
20	16QAM	1	49	18.11	18.21	18.15	19.5	0
20	16QAM	1	99	18.11	18.18	17.99		
20	16QAM	50	0	17.88	17.98	17.96		
20	16QAM	50	24	17.92	18.00	17.92	19.5	0
20	16QAM	50	50	17.90	17.88	17.75		
20	16QAM	100	0	17.94	17.95	17.90		
20	64QAM	1	0	18.29	17.99	18.16		
20	64QAM	1	49	17.90	18.09	18.06	19.5	0
20	64QAM	1	99	18.04	18.21	17.91		
20	64QAM	50	0	18.09	18.20	18.15		
20	64QAM	50	24	18.15	18.17	18.12	19.5	0
20	64QAM	50	50	18.11	18.10	17.94		
20	64QAM	100	0	18.14	18.16	18.08		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.19	18.35	18.21		
15	QPSK	1	37	18.13	18.29	18.15	19.5	0
15	QPSK	1	74	18.11	18.20	18.07		
15	QPSK	36	0	18.23	18.38	18.30		
15	QPSK	36	20	18.30	18.37	18.26	19.5	0
15	QPSK	36	39	18.22	18.35	18.12		
15	QPSK	75	0	18.26	18.34	18.25		
15	16QAM	1	0	18.38	18.38	18.41		
15	16QAM	1	37	18.25	18.37	18.27	19.5	0
15	16QAM	1	74	18.19	18.34	18.18		
15	16QAM	36	0	18.22	18.35	18.32		
15	16QAM	36	20	18.31	18.45	18.28	19.5	0
15	16QAM	36	39	18.28	18.32	18.11		
15	16QAM	75	0	18.30	18.35	18.28		
15	64QAM	1	0	18.41	18.25	18.39		
15	64QAM	1	37	18.06	18.28	18.16	19.5	0
15	64QAM	1	74	17.91	18.31	18.08		
15	64QAM	36	0	18.03	18.15	18.12		
15	64QAM	36	20	18.10	18.19	18.07	19.5	0
15	64QAM	36	39	18.07	18.10	17.96		
15	64QAM	75	0	18.11	18.14	18.08		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.18	18.32	18.18		
10	QPSK	1	25	18.06	18.33	18.09	19.5	0
10	QPSK	1	49	18.08	18.16	18.07		
10	QPSK	25	0	18.23	18.35	18.22		
10	QPSK	25	12	18.22	18.34	18.19	19.5	0
10	QPSK	25	25	18.15	18.29	18.17		
10	QPSK	50	0	18.22	18.30	18.21		
10	16QAM	1	0	18.26	18.35	18.27		
10	16QAM	1	25	18.12	18.33	18.13	19.5	0
10	16QAM	1	49	18.16	18.31	18.16		
10	16QAM	25	0	18.04	18.15	18.06		
10	16QAM	25	12	18.08	18.17	18.06	19.5	0
10	16QAM	25	25	18.01	18.11	18.01		
10	16QAM	50	0	18.05	18.14	18.04		
10	64QAM	1	0	18.16	18.30	18.19		
10	64QAM	1	25	18.04	18.26	18.05	19.5	0
10	64QAM	1	49	18.06	18.25	18.09		
10	64QAM	25	0	18.05	18.12	18.03		
10	64QAM	25	12	18.01	18.11	18.02	19.5	0
10	64QAM	25	25	17.99	18.13	17.98		
10	64QAM	50	0	18.01	18.10	18.02		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.02	18.02	17.95		
5	QPSK	1	12	17.89	18.06	17.89	19.5	0
5	QPSK	1	24	17.91	18.02	17.85		
5	QPSK	12	0	18.01	18.12	17.99		
5	QPSK	12	7	18.03	18.14	17.98	19.5	0
5	QPSK	12	13	17.97	18.09	17.98		
5	QPSK	25	0	18.00	18.09	17.96		
5	16QAM	1	0	18.27	18.41	18.25		
5	16QAM	1	12	18.20	18.48	18.19	19.5	0
5	16QAM	1	24	18.24	18.33	18.26		
5	16QAM	12	0	18.04	18.17	18.01		
5	16QAM	12	7	18.04	18.19	18.03	19.5	0
5	16QAM	12	13	18.01	18.13	17.98		
5	16QAM	25	0	18.02	18.13	17.97		
5	64QAM	1	0	18.23	18.35	18.16		
5	64QAM	1	12	18.11	18.40	18.14	19.5	0
5	64QAM	1	24	18.20	18.27	18.14		
5	64QAM	12	0	18.06	18.18	17.99		
5	64QAM	12	7	18.03	18.15	18.02	19.5	0
5	64QAM	12	13	18.00	18.15	18.00		
5	64QAM	25	0	18.00	18.15	17.97		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	17.93	18.02	17.86		
3	QPSK	1	8	17.96	18.11	17.89	19.5	0
3	QPSK	1	14	17.88	17.98	17.88		
3	QPSK	8	0	17.97	18.08	17.95		
3	QPSK	8	4	18.03	18.10	17.95	19.5	0
3	QPSK	8	7	17.97	18.08	17.94		
3	QPSK	15	0	17.96	18.11	17.92		
3	16QAM	1	0	18.23	18.36	18.22		
3	16QAM	1	8	18.31	18.47	18.28	19.5	0
3	16QAM	1	14	18.21	18.33	18.19		
3	16QAM	8	0	18.02	18.16	18.00		
3	16QAM	8	4	18.06	18.19	18.03	19.5	0
3	16QAM	8	7	18.03	18.15	17.99		
3	16QAM	15	0	18.02	18.14	17.97		
3	64QAM	1	0	18.16	18.30	18.12		
3	64QAM	1	8	18.23	18.44	18.17	19.5	0
3	64QAM	1	14	18.14	18.29	18.09		
3	64QAM	8	0	17.99	18.12	17.99		
3	64QAM	8	4	18.02	18.15	18.00	19.5	0
3	64QAM	8	7	17.99	18.12	17.96		
3	64QAM	15	0	18.04	18.11	17.96		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	17.81	17.95	17.75		
1.4	QPSK	1	3	17.85	18.05	17.86		
1.4	QPSK	1	5	17.79	18.00	17.77	19.5	0
1.4	QPSK	3	0	17.87	17.95	17.80		
1.4	QPSK	3	1	17.88	18.08	17.84		
1.4	QPSK	3	3	17.85	18.03	17.80		
1.4	QPSK	6	0	17.93	18.02	17.86	19.5	0
1.4	16QAM	1	0	18.14	18.28	18.09		
1.4	16QAM	1	3	18.27	18.41	18.19		
1.4	16QAM	1	5	18.18	18.32	18.12	19.5	0
1.4	16QAM	3	0	17.95	18.06	17.89		
1.4	16QAM	3	1	17.97	18.20	17.94		
1.4	16QAM	3	3	17.94	18.11	17.87		
1.4	16QAM	6	0	18.04	18.14	17.95	19.5	0
1.4	64QAM	1	0	18.10	18.19	18.03		
1.4	64QAM	1	3	18.15	18.29	18.06		
1.4	64QAM	1	5	18.08	18.23	18.04	19.5	0
1.4	64QAM	3	0	17.97	18.12	17.96		
1.4	64QAM	3	1	18.04	18.21	17.99		
1.4	64QAM	3	3	17.98	18.14	17.94		
1.4	64QAM	6	0	17.93	18.04	17.87	19.5	0

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	15.47	15.78	15.44		
20	QPSK	1	49	15.53	15.48	15.50	16.5	0
20	QPSK	1	99	15.59	15.54	15.59		
20	QPSK	50	0	15.51	15.58	15.46		
20	QPSK	50	24	15.57	15.52	15.55	16.5	0
20	QPSK	50	50	15.48	15.44	15.54		
20	QPSK	100	0	15.54	15.55	15.51		
20	16QAM	1	0	15.55	15.60	15.51		
20	16QAM	1	49	15.56	15.58	15.56	16.5	0
20	16QAM	1	99	15.67	15.64	15.69		
20	16QAM	50	0	15.45	15.41	15.37		
20	16QAM	50	24	15.46	15.45	15.47	16.5	0
20	16QAM	50	50	15.42	15.37	15.46		
20	16QAM	100	0	15.44	15.40	15.42		
20	64QAM	1	0	15.42	15.36	15.35		
20	64QAM	1	49	15.46	15.41	15.41	16.5	0
20	64QAM	1	99	15.51	15.51	15.54		
20	64QAM	50	0	15.43	15.39	15.35		
20	64QAM	50	24	15.48	15.43	15.46	16.5	0
20	64QAM	50	50	15.40	15.36	15.43		
20	64QAM	100	0	15.46	15.40	15.43		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.56	15.49	15.46		
15	QPSK	1	37	15.59	15.51	15.52	16.5	0
15	QPSK	1	74	15.62	15.59	15.58		
15	QPSK	36	0	15.74	15.68	15.68		
15	QPSK	36	20	15.74	15.72	15.72	16.5	0
15	QPSK	36	39	15.70	15.73	15.70		
15	QPSK	75	0	15.70	15.69	15.71		
15	16QAM	1	0	15.59	15.55	15.54		
15	16QAM	1	37	15.59	15.53	15.55	16.5	0
15	16QAM	1	74	15.66	15.63	15.67		
15	16QAM	36	0	15.47	15.40	15.39		
15	16QAM	36	20	15.39	15.42	15.43	16.5	0
15	16QAM	36	39	15.44	15.46	15.46		
15	16QAM	75	0	15.42	15.42	15.44		
15	64QAM	1	0	15.47	15.41	15.38		
15	64QAM	1	37	15.49	15.45	15.44	16.5	0
15	64QAM	1	74	15.52	15.51	15.53		
15	64QAM	36	0	15.48	15.39	15.37		
15	64QAM	36	20	15.40	15.43	15.42	16.5	0
15	64QAM	36	39	15.43	15.45	15.45		
15	64QAM	75	0	15.42	15.42	15.43		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.64	15.56	15.53		
10	QPSK	1	25	15.67	15.59	15.58	16.5	0
10	QPSK	1	49	15.71	15.66	15.62		
10	QPSK	25	0	15.60	15.49	15.45		
10	QPSK	25	12	15.60	15.51	15.50	16.5	0
10	QPSK	25	25	15.51	15.51	15.48		
10	QPSK	50	0	15.47	15.49	15.43		
10	16QAM	1	0	15.60	15.52	15.51		
10	16QAM	1	25	15.62	15.50	15.55	16.5	0
10	16QAM	1	49	15.68	15.62	15.69		
10	16QAM	25	0	15.46	15.38	15.35		
10	16QAM	25	12	15.46	15.41	15.40	16.5	0
10	16QAM	25	25	15.41	15.41	15.39		
10	16QAM	50	0	15.38	15.37	15.38		
10	64QAM	1	0	15.52	15.44	15.41		
10	64QAM	1	25	15.52	15.44	15.42	16.5	0
10	64QAM	1	49	15.56	15.53	15.55		
10	64QAM	25	0	15.46	15.37	15.34		
10	64QAM	25	12	15.45	15.42	15.39	16.5	0
10	64QAM	25	25	15.39	15.40	15.38		
10	64QAM	50	0	15.33	15.34	15.35		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.64	15.56	15.51		
5	QPSK	1	12	15.71	15.63	15.55	16.5	0
5	QPSK	1	24	15.75	15.63	15.63		
5	QPSK	12	0	15.72	15.62	15.55		
5	QPSK	12	7	15.77	15.74	15.68	16.5	0
5	QPSK	12	13	15.51	15.72	15.70		
5	QPSK	25	0	15.74	15.70	15.62		
5	16QAM	1	0	15.63	15.53	15.54		
5	16QAM	1	12	15.66	15.58	15.54	16.5	0
5	16QAM	1	24	15.70	15.61	15.67		
5	16QAM	12	0	15.39	15.35	15.34		
5	16QAM	12	7	15.48	15.41	15.43	16.5	0
5	16QAM	12	13	15.50	15.45	15.41		
5	16QAM	25	0	15.47	15.35	15.38		
5	64QAM	1	0	15.59	15.50	15.48		
5	64QAM	1	12	15.62	15.54	15.49	16.5	0
5	64QAM	1	24	15.66	15.54	15.58		
5	64QAM	12	0	15.37	15.33	15.30		
5	64QAM	12	7	15.47	15.39	15.40	16.5	0
5	64QAM	12	13	15.50	15.43	15.39		
5	64QAM	25	0	15.43	15.35	15.34		

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	18.23	18.45	18.24	19.5	0
20	QPSK	1	49	18.17	18.18	18.04		
20	QPSK	1	99	18.13	18.10	18.00		
20	QPSK	50	0	18.29	18.32	18.20	19.5	0
20	QPSK	50	24	18.31	18.20	18.15		
20	QPSK	50	50	18.25	18.21	18.14		
20	QPSK	100	0	18.27	18.30	18.15		
20	16QAM	1	0	18.24	18.34	18.21	19.5	0
20	16QAM	1	49	18.13	18.18	18.07		
20	16QAM	1	99	18.08	18.08	17.97		
20	16QAM	50	0	18.16	18.16	18.07	19.5	0
20	16QAM	50	24	18.21	18.13	18.07		
20	16QAM	50	50	18.17	18.15	18.07		
20	16QAM	100	0	18.21	18.09	18.01		
20	64QAM	1	0	18.13	18.21	18.20	19.5	0
20	64QAM	1	49	17.98	18.11	18.02		
20	64QAM	1	99	17.94	18.00	18.03		
20	64QAM	50	0	18.13	18.12	18.09	19.5	0
20	64QAM	50	24	18.18	18.10	18.06		
20	64QAM	50	50	18.17	18.12	18.05		
20	64QAM	100	0	18.21	18.09	18.05		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.07	18.07	18.09	19.5	0
15	QPSK	1	37	18.10	18.09	18.01		
15	QPSK	1	74	18.01	17.96	17.94		
15	QPSK	36	0	18.21	18.10	18.07	19.5	0
15	QPSK	36	20	18.17	18.10	18.01		
15	QPSK	36	39	18.16	18.13	18.04		
15	QPSK	75	0	18.17	18.08	17.99		
15	16QAM	1	0	18.21	18.20	18.14	19.5	0
15	16QAM	1	37	18.17	18.13	18.12		
15	16QAM	1	74	18.11	18.05	18.02		
15	16QAM	36	0	17.99	17.92	17.82	19.5	0
15	16QAM	36	20	18.03	17.92	17.83		
15	16QAM	36	39	17.95	17.95	17.85		
15	16QAM	75	0	17.99	17.90	17.84		
15	64QAM	1	0	18.12	18.20	18.15	19.5	0
15	64QAM	1	37	18.13	18.11	18.02		
15	64QAM	1	74	18.03	18.04	18.06		
15	64QAM	36	0	18.19	18.11	18.07	19.5	0
15	64QAM	36	20	18.20	18.11	18.04		
15	64QAM	36	39	18.13	18.15	18.08		
15	64QAM	75	0	18.19	18.08	18.01		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.02	18.02	18.00	19.5	0
10	QPSK	1	25	18.02	18.03	17.91		
10	QPSK	1	49	17.95	17.95	17.90		
10	QPSK	25	0	18.12	18.04	18.04	19.5	0
10	QPSK	25	12	18.14	18.07	18.05		
10	QPSK	25	25	18.09	18.05	17.99		
10	QPSK	50	0	18.12	18.01	18.05		
10	16QAM	1	0	18.33	18.31	18.24	19.5	0
10	16QAM	1	25	18.20	18.23	18.15		
10	16QAM	1	49	18.21	18.21	18.12		
10	16QAM	25	0	18.13	18.06	18.01	19.5	0
10	16QAM	25	12	18.15	18.07	18.05		
10	16QAM	25	25	18.11	18.11	18.00		
10	16QAM	50	0	18.14	18.03	18.05		
10	64QAM	1	0	18.25	18.26	18.18	19.5	0
10	64QAM	1	25	18.16	18.16	18.08		
10	64QAM	1	49	18.17	18.15	18.02		
10	64QAM	25	0	18.15	18.04	18.05	19.5	0
10	64QAM	25	12	18.08	18.04	18.05		
10	64QAM	25	25	18.05	18.09	18.01		
10	64QAM	50	0	18.11	18.02	18.03		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.05	18.04	17.96	19.5	0
5	QPSK	1	12	18.00	17.98	17.97		
5	QPSK	1	24	18.03	18.01	17.89		
5	QPSK	12	0	18.14	18.07	18.05	19.5	0
5	QPSK	12	7	18.15	18.12	18.04		
5	QPSK	12	13	18.09	18.11	17.99		
5	QPSK	25	0	18.10	18.01	18.02		
5	16QAM	1	0	18.44	18.33	18.34	19.5	0
5	16QAM	1	12	18.37	18.32	18.23		
5	16QAM	1	24	18.36	18.36	18.27		
5	16QAM	12	0	18.13	18.06	18.04	19.5	0
5	16QAM	12	7	18.15	18.13	18.03		
5	16QAM	12	13	18.14	18.10	18.01		
5	16QAM	25	0	18.14	18.02	18.03		
5	64QAM	1	0	18.35	18.25	18.31	19.5	0
5	64QAM	1	12	18.32	18.26	18.21		
5	64QAM	1	24	18.29	18.29	18.21		
5	64QAM	12	0	18.09	18.05	18.04	19.5	0
5	64QAM	12	7	18.11	18.08	18.02		
5	64QAM	12	13	18.06	18.05	18.01		
5	64QAM	25	0	18.11	18.06	18.01		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.04	18.03	17.95	19.5	0
3	QPSK	1	8	18.08	18.05	17.94		
3	QPSK	1	14	17.98	17.96	17.85		
3	QPSK	8	0	18.11	18.07	17.99	19.5	0
3	QPSK	8	4	18.13	18.12	18.02		
3	QPSK	8	7	18.08	18.09	17.99		
3	QPSK	15	0	18.10	18.09	17.95		
3	16QAM	1	0	18.33	18.30	18.23	19.5	0
3	16QAM	1	8	18.38	18.36	18.22		
3	16QAM	1	14	18.34	18.31	18.22		
3	16QAM	8	0	18.12	18.13	18.16	19.5	0
3	16QAM	8	4	18.16	18.16	17.94		
3	16QAM	8	7	18.13	18.12	18.02		
3	16QAM	15	0	18.10	18.09	18.02		
3	64QAM	1	0	18.30	18.25	18.19	19.5	0
3	64QAM	1	8	18.29	18.32	18.25		
3	64QAM	1	14	18.24	18.23	18.14		
3	64QAM	8	0	18.13	18.10	18.00	19.5	0
3	64QAM	8	4	18.15	18.13	18.00		
3	64QAM	8	7	18.09	18.11	17.98		
3	64QAM	15	0	18.08	18.07	18.01		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	17.94	17.98	17.82	19.5	0
1.4	QPSK	1	3	18.00	18.01	17.89		
1.4	QPSK	1	5	17.95	17.94	17.84		
1.4	QPSK	3	0	17.96	17.94	17.84		
1.4	QPSK	3	1	17.99	18.01	17.90		
1.4	QPSK	3	3	17.94	17.93	17.82		
1.4	QPSK	6	0	18.05	18.04	17.91	19.5	0
1.4	16QAM	1	0	18.25	18.26	18.10	19.5	0
1.4	16QAM	1	3	18.34	18.29	18.19		
1.4	16QAM	1	5	18.24	18.24	18.16		
1.4	16QAM	3	0	18.07	18.02	17.91		
1.4	16QAM	3	1	18.11	18.10	17.97		
1.4	16QAM	3	3	18.06	18.05	17.87		
1.4	16QAM	6	0	18.11	18.00	18.01	19.5	0
1.4	64QAM	1	0	18.13	18.10	18.08	19.5	0
1.4	64QAM	1	3	18.19	18.17	18.09		
1.4	64QAM	1	5	18.11	18.09	18.08		
1.4	64QAM	3	0	18.08	18.08	17.91		
1.4	64QAM	3	1	18.12	18.05	17.95		
1.4	64QAM	3	3	18.06	18.08	17.93		
1.4	64QAM	6	0	18.05	18.02	17.93	19.5	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	16.34	16.58	16.51	17	0
20	QPSK	1	49	16.43	16.42	16.32		
20	QPSK	1	99	16.56	16.55	16.34		
20	QPSK	50	0	16.33	16.52	16.53	17	0
20	QPSK	50	24	16.51	16.43	16.44		
20	QPSK	50	50	16.52	16.57	16.43		
20	QPSK	100	0	16.45	16.45	16.44		
20	16QAM	1	0	16.26	16.45	16.53	17	0
20	16QAM	1	49	16.28	16.50	16.55		
20	16QAM	1	99	16.46	16.44	16.57		
20	16QAM	50	0	16.15	16.32	16.37	17	0
20	16QAM	50	24	16.31	16.41	16.52		
20	16QAM	50	50	16.36	16.47	16.50		
20	16QAM	100	0	16.29	16.37	16.49		
20	64QAM	1	0	16.06	16.18	16.17	17	0
20	64QAM	1	49	16.06	16.17	16.36		
20	64QAM	1	99	16.14	16.19	16.37		
20	64QAM	50	0	16.07	16.26	16.35	17	0
20	64QAM	50	24	16.26	16.34	16.47		
20	64QAM	50	50	16.30	16.41	16.44		
20	64QAM	100	0	16.33	16.41	16.52		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	16.07	16.25	16.31	17	0
15	QPSK	1	37	16.15	16.33	16.39		
15	QPSK	1	74	16.29	16.38	16.42		
15	QPSK	36	0	16.11	16.29	16.35	17	0
15	QPSK	36	20	16.27	16.37	16.43		
15	QPSK	36	39	16.25	16.42	16.45		
15	QPSK	75	0	16.21	16.35	16.38		
15	16QAM	1	0	16.23	16.46	16.47	17	0
15	16QAM	1	37	16.23	16.47	16.45		
15	16QAM	1	74	16.39	16.43	16.42		
15	16QAM	36	0	16.10	16.26	16.33	17	0
15	16QAM	36	20	16.25	16.35	16.42		
15	16QAM	36	39	16.25	16.42	16.43		
15	16QAM	75	0	16.25	16.36	16.41		
15	64QAM	1	0	16.09	16.13	16.18	17	0
15	64QAM	1	37	16.08	16.15	16.34		
15	64QAM	1	74	16.06	16.19	16.36		
15	64QAM	36	0	16.10	16.31	16.38	17	0
15	64QAM	36	20	16.27	16.39	16.42		
15	64QAM	36	39	16.25	16.44	16.46		
15	64QAM	75	0	16.25	16.35	16.39		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	16.18	16.39	16.35	17	0
10	QPSK	1	25	16.24	16.45	16.33		
10	QPSK	1	49	16.30	16.51	16.38		
10	QPSK	25	0	16.35	16.44	16.35	17	0
10	QPSK	25	12	16.38	16.51	16.47		
10	QPSK	25	25	16.36	16.57	16.47		
10	QPSK	50	0	16.35	16.51	16.34		
10	16QAM	1	0	16.35	16.53	16.44	17	0
10	16QAM	1	25	16.31	16.57	16.42		
10	16QAM	1	49	16.36	16.43	16.47		
10	16QAM	25	0	16.33	16.48	16.36	17	0
10	16QAM	25	12	16.43	16.55	16.40		
10	16QAM	25	25	16.38	16.43	16.48		
10	16QAM	50	0	16.40	16.52	16.40		
10	64QAM	1	0	16.14	16.36	16.26	17	0
10	64QAM	1	25	16.14	16.31	16.24		
10	64QAM	1	49	16.24	16.52	16.36		
10	64QAM	25	0	16.34	16.46	16.37	17	0
10	64QAM	25	12	16.34	16.48	16.48		
10	64QAM	25	25	16.35	16.56	16.45		
10	64QAM	50	0	16.33	16.46	16.29		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	16.25	16.24	16.15	17	0
5	QPSK	1	12	16.20	16.26	16.29		
5	QPSK	1	24	16.21	16.32	16.32		
5	QPSK	12	0	16.31	16.33	16.42	17	0
5	QPSK	12	7	16.34	16.34	16.45		
5	QPSK	12	13	16.34	16.37	16.44		
5	QPSK	25	0	16.34	16.31	16.44		
5	16QAM	1	0	16.39	16.39	16.42	17	0
5	16QAM	1	12	16.43	16.48	16.42		
5	16QAM	1	24	16.43	16.48	16.34		
5	16QAM	12	0	16.34	16.33	16.42	17	0
5	16QAM	12	7	16.35	16.35	16.47		
5	16QAM	12	13	16.36	16.39	16.43		
5	16QAM	25	0	16.35	16.37	16.44		
5	64QAM	1	0	16.16	16.17	16.23	17	0
5	64QAM	1	12	16.03	16.12	16.14		
5	64QAM	1	24	16.15	16.22	16.25		
5	64QAM	12	0	16.33	16.30	16.42	17	0
5	64QAM	12	7	16.33	16.34	16.45		
5	64QAM	12	13	16.33	16.37	16.43		
5	64QAM	25	0	16.33	16.32	16.42		

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				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.31	16.19	16.59	16.30	16.22	17	0
20	QPSK	1	49	16.35	16.22	16.18	16.41	16.30		
20	QPSK	1	99	16.32	16.23	16.27	16.42	16.35		
20	QPSK	50	0	16.47	16.39	16.52	16.32	16.26	17	0
20	QPSK	50	24	16.46	16.42	16.36	16.43	16.34		
20	QPSK	50	50	16.40	16.40	16.37	16.39	16.39		
20	QPSK	100	0	16.49	16.39	16.50	16.39	16.32		
20	16QAM	1	0	16.44	16.36	16.33	16.32	16.43	17	0
20	16QAM	1	49	16.41	16.29	16.31	16.34	16.44		
20	16QAM	1	99	16.46	16.36	16.07	16.36	16.56		
20	16QAM	50	0	16.51	16.42	16.26	16.16	16.23	17	0
20	16QAM	50	24	16.53	16.42	16.39	16.31	16.32		
20	16QAM	50	50	16.43	16.43	16.42	16.29	16.39		
20	16QAM	100	0	16.49	16.41	16.36	16.28	16.33		
20	64QAM	1	0	16.36	16.06	16.27	15.96	16.10	17	0
20	64QAM	1	49	16.27	16.17	16.07	16.15	16.12		
20	64QAM	1	99	16.14	16.09	16.19	16.16	16.16		
20	64QAM	50	0	16.46	16.37	16.23	16.14	16.28	17	0
20	64QAM	50	24	16.47	16.37	16.33	16.26	16.36		
20	64QAM	50	50	16.38	16.39	16.38	16.23	16.41		
20	64QAM	100	0	16.53	16.48	16.40	16.31	16.32		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.31	16.24	16.38	16.49	16.30	17	0
15	QPSK	1	37	16.28	16.17	16.31	16.38	16.41		
15	QPSK	1	74	16.26	16.25	16.45	16.45	16.42		
15	QPSK	36	0	16.43	16.37	16.43	16.47	16.32	17	0
15	QPSK	36	20	16.45	16.36	16.52	16.37	16.43		
15	QPSK	36	39	16.43	16.39	16.55	16.45	16.39		
15	QPSK	75	0	16.47	16.39	16.22	16.44	16.39		
15	16QAM	1	0	16.46	16.44	16.14	16.24	16.32	17	0
15	16QAM	1	37	16.36	16.28	16.46	16.29	16.34		
15	16QAM	1	74	16.43	16.45	16.34	16.24	16.36		
15	16QAM	36	0	16.44	16.37	16.39	16.29	16.16	17	0
15	16QAM	36	20	16.46	16.38	16.23	16.38	16.31		
15	16QAM	36	39	16.42	16.39	16.14	16.44	16.29		
15	16QAM	75	0	16.50	16.40	16.24	16.34	16.28		
15	64QAM	1	0	16.38	16.22	16.44	16.15	15.96	17	0
15	64QAM	1	37	16.36	16.09	16.29	16.14	16.15		
15	64QAM	1	74	16.22	16.14	16.32	16.16	16.16		
15	64QAM	36	0	16.45	16.41	16.44	16.23	16.14	17	0
15	64QAM	36	20	16.45	16.40	16.12	16.31	16.26		
15	64QAM	36	39	16.45	16.41	16.24	16.38	16.23		
15	64QAM	75	0	16.48	16.41	16.13	16.38	16.31		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.31	16.41	16.34	16.23	16.29	17	0
10	QPSK	1	25	16.32	16.41	16.39	16.31	16.37		
10	QPSK	1	49	16.29	16.36	16.41	16.36	16.40		
10	QPSK	25	0	16.24	16.33	16.22	16.27	16.33	17	0
10	QPSK	25	12	16.28	16.34	16.34	16.35	16.41		
10	QPSK	25	25	16.26	16.35	16.32	16.40	16.43		
10	QPSK	50	0	16.23	16.32	16.31	16.33	16.36		
10	16QAM	1	0	16.28	16.37	16.26	16.44	16.45	17	0
10	16QAM	1	25	16.30	16.43	16.38	16.45	16.43		
10	16QAM	1	49	16.23	16.33	16.31	16.23	16.14		
10	16QAM	25	0	16.30	16.35	16.24	16.24	16.31	17	0
10	16QAM	25	12	16.30	16.40	16.38	16.33	16.40		
10	16QAM	25	25	16.27	16.36	16.35	16.40	16.41		
10	16QAM	50	0	16.29	16.38	16.36	16.34	16.39		
10	64QAM	1	0	16.40	16.46	16.31	16.11	16.16	17	0
10	64QAM	1	25	16.18	16.25	16.30	16.13	16.32		
10	64QAM	1	49	16.26	16.31	16.36	16.17	16.34		
10	64QAM	25	0	16.42	16.25	16.40	16.29	16.36	17	0
10	64QAM	25	12	16.46	16.54	16.52	16.37	16.40		
10	64QAM	25	25	16.46	16.23	16.18	16.42	16.44		
10	64QAM	50	0	16.39	16.49	16.47	16.33	16.37		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	16.37	16.39	16.32	16.16	16.37	17	0
5	QPSK	1	12	16.33	16.39	16.40	16.22	16.43		
5	QPSK	1	24	16.30	16.36	16.41	16.28	16.49		
5	QPSK	12	0	16.22	16.32	16.31	16.33	16.42	17	0
5	QPSK	12	7	16.24	16.32	16.34	16.36	16.49		
5	QPSK	12	13	16.24	16.34	16.32	16.34	16.55		
5	QPSK	25	0	16.22	16.30	16.30	16.33	16.49		
5	16QAM	1	0	16.31	16.51	16.34	16.33	16.51	17	0
5	16QAM	1	12	16.34	16.48	16.43	16.29	16.55		
5	16QAM	1	24	16.28	16.39	16.48	16.34	16.25		
5	16QAM	12	0	16.23	16.35	16.30	16.31	16.24	17	0
5	16QAM	12	7	16.24	16.35	16.33	16.41	16.23		
5	16QAM	12	13	16.22	16.29	16.32	16.36	16.34		
5	16QAM	25	0	16.26	16.39	16.34	16.38	16.14		
5	64QAM	1	0	16.27	16.43	16.24	16.12	16.34	17	0
5	64QAM	1	12	16.15	16.27	16.29	16.12	16.29		
5	64QAM	1	24	16.25	16.31	16.38	16.22	16.50		
5	64QAM	12	0	16.41	16.53	16.50	16.32	16.44	17	0
5	64QAM	12	7	16.45	16.54	16.53	16.32	16.46		
5	64QAM	12	13	16.43	16.49	16.50	16.33	16.54		
5	64QAM	25	0	16.41	16.53	16.48	16.31	16.44		

Reduced power Mode for Handheld On for ANT1

Band 7 (2600MHz Band)
Part 27-ENDC

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	17.61	17.72	17.51	19	0
20	QPSK	1	49	17.66	17.61	17.59		
20	QPSK	1	99	17.54	17.67	17.70		
20	QPSK	50	0	17.65	17.70	17.56	19	0
20	QPSK	50	24	17.69	17.65	17.63		
20	QPSK	50	50	17.64	17.59	17.64		
20	QPSK	100	0	17.68	17.69	17.61		
20	16QAM	1	0	17.54	17.50	17.42	19	0
20	16QAM	1	49	17.61	17.56	17.50		
20	16QAM	1	99	17.69	17.62	17.61		
20	16QAM	50	0	17.51	17.43	17.38	19	0
20	16QAM	50	24	17.49	17.46	17.43		
20	16QAM	50	50	17.47	17.41	17.43		
20	16QAM	100	0	17.48	17.43	17.42		
20	64QAM	1	0	17.47	17.38	17.41	19	0
20	64QAM	1	49	17.55	17.41	17.29		
20	64QAM	1	99	17.58	17.49	17.49		
20	64QAM	50	0	17.48	17.42	17.37	19	0
20	64QAM	50	24	17.48	17.43	17.41		
20	64QAM	50	50	17.45	17.40	17.43		
20	64QAM	100	0	17.47	17.46	17.40		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.70	17.61	17.53	19	0
15	QPSK	1	37	17.43	17.62	17.60		
15	QPSK	1	74	17.45	17.44	17.69		
15	QPSK	36	0	17.69	17.61	17.55	19	0
15	QPSK	36	20	17.65	17.62	17.60		
15	QPSK	36	39	17.67	17.63	17.60		
15	QPSK	75	0	17.62	17.61	17.58		
15	16QAM	1	0	17.56	17.55	17.49	19	0
15	16QAM	1	37	17.58	17.54	17.45		
15	16QAM	1	74	17.54	17.61	17.63		
15	16QAM	36	0	17.69	17.62	17.55	19	0
15	16QAM	36	20	17.67	17.64	17.61		
15	16QAM	36	39	17.64	17.66	17.60		
15	16QAM	75	0	17.64	17.64	17.63		
15	64QAM	1	0	17.50	17.43	17.34	19	0
15	64QAM	1	37	17.50	17.42	17.32		
15	64QAM	1	74	17.62	17.62	17.46		
15	64QAM	36	0	17.48	17.41	17.34	19	0
15	64QAM	36	20	17.48	17.42	17.38		
15	64QAM	36	39	17.47	17.42	17.42		
15	64QAM	75	0	17.42	17.44	17.43		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.47	17.41	17.42	19	0
10	QPSK	1	25	17.51	17.48	17.40		
10	QPSK	1	49	17.57	17.52	17.59		
10	QPSK	25	0	17.64	17.57	17.49	19	0
10	QPSK	25	12	17.68	17.58	17.55		
10	QPSK	25	25	17.61	17.60	17.55		
10	QPSK	50	0	17.56	17.55	17.52		
10	16QAM	1	0	17.67	17.57	17.52	19	0
10	16QAM	1	25	17.63	17.58	17.52		
10	16QAM	1	49	17.70	17.69	17.68		
10	16QAM	25	0	17.48	17.42	17.36	19	0
10	16QAM	25	12	17.51	17.41	17.38		
10	16QAM	25	25	17.41	17.42	17.37		
10	16QAM	50	0	17.39	17.41	17.34		
10	64QAM	1	0	17.54	17.49	17.39	19	0
10	64QAM	1	25	17.55	17.46	17.43		
10	64QAM	1	49	17.63	17.56	17.55		
10	64QAM	25	0	17.47	17.38	17.32	19	0
10	64QAM	25	12	17.47	17.40	17.36		
10	64QAM	25	25	17.42	17.38	17.40		
10	64QAM	50	0	17.39	17.36	17.37		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.48	17.41	17.39	19	0
5	QPSK	1	12	17.55	17.46	17.48		
5	QPSK	1	24	17.59	17.50	17.50		
5	QPSK	12	0	17.54	17.52	17.46	19	0
5	QPSK	12	7	17.62	17.57	17.57		
5	QPSK	12	13	17.67	17.58	17.56		
5	QPSK	25	0	17.62	17.55	17.52		
5	16QAM	1	0	17.63	17.54	17.55	19	0
5	16QAM	1	12	17.64	17.57	17.58		
5	16QAM	1	24	17.70	17.60	17.61		
5	16QAM	12	0	17.42	17.30	17.29	19	0
5	16QAM	12	7	17.46	17.41	17.40		
5	16QAM	12	13	17.49	17.40	17.40		
5	16QAM	25	0	17.43	17.34	17.34		
5	64QAM	1	0	17.59	17.49	17.47	19	0
5	64QAM	1	12	17.60	17.45	17.44		
5	64QAM	1	24	17.60	17.60	17.51		
5	64QAM	12	0	17.38	17.29	17.28	19	0
5	64QAM	12	7	17.45	17.39	17.37		
5	64QAM	12	13	17.47	17.38	17.41		
5	64QAM	25	0	17.42	17.38	17.34		

Band 66-ENDC

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	18.67	18.80	18.76	20	0
20	QPSK	1	49	18.55	18.45	18.77		
20	QPSK	1	99	18.56	18.71	18.72		
20	QPSK	50	0	18.54	18.76	18.55	20	0
20	QPSK	50	24	18.52	18.39	18.33		
20	QPSK	50	50	18.47	18.45	18.41		
20	QPSK	100	0	18.52	18.53	18.32		
20	16QAM	1	0	18.70	18.68	18.76	20	0
20	16QAM	1	49	18.62	18.65	18.57		
20	16QAM	1	99	18.53	18.52	18.47		
20	16QAM	50	0	18.44	18.43	18.34	20	0
20	16QAM	50	24	18.49	18.42	18.35		
20	16QAM	50	50	18.46	18.43	18.36		
20	16QAM	100	0	18.52	18.38	18.32		
20	64QAM	1	0	18.49	18.76	18.65	20	0
20	64QAM	1	49	18.35	18.47	18.46		
20	64QAM	1	99	18.29	18.40	18.45		
20	64QAM	50	0	18.42	18.44	18.36	20	0
20	64QAM	50	24	18.50	18.40	18.33		
20	64QAM	50	50	18.44	18.42	18.34		
20	64QAM	100	0	18.51	18.38	18.31		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.38	18.37	18.38	20	0
15	QPSK	1	37	18.38	18.39	18.29		
15	QPSK	1	74	18.28	18.29	18.21		
15	QPSK	36	0	18.50	18.43	18.38	20	0
15	QPSK	36	20	18.49	18.43	18.32		
15	QPSK	36	39	18.45	18.44	18.36		
15	QPSK	75	0	18.48	18.40	18.31		
15	16QAM	1	0	18.70	18.69	18.66	20	0
15	16QAM	1	37	18.65	18.65	18.58		
15	16QAM	1	74	18.61	18.57	18.55		
15	16QAM	36	0	18.49	18.39	18.33	20	0
15	16QAM	36	20	18.53	18.43	18.33		
15	16QAM	36	39	18.47	18.42	18.37		
15	16QAM	75	0	18.49	18.39	18.36		
15	64QAM	1	0	18.60	18.74	18.55	20	0
15	64QAM	1	37	18.51	18.68	18.49		
15	64QAM	1	74	18.42	18.48	18.42		
15	64QAM	36	0	18.51	18.41	18.33	20	0
15	64QAM	36	20	18.49	18.44	18.33		
15	64QAM	36	39	18.44	18.43	18.34		
15	64QAM	75	0	18.47	18.40	18.31		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.54	18.53	18.65	20	0
10	QPSK	1	25	18.55	18.52	18.44		
10	QPSK	1	49	18.48	18.42	18.37		
10	QPSK	25	0	18.66	18.56	18.55	20	0
10	QPSK	25	12	18.64	18.55	18.53		
10	QPSK	25	25	18.61	18.57	18.48		
10	QPSK	50	0	18.60	18.57	18.52		
10	16QAM	1	0	18.79	18.43	18.45	20	0
10	16QAM	1	25	18.72	18.74	18.65		
10	16QAM	1	49	18.75	18.76	18.63		
10	16QAM	25	0	18.63	18.63	18.58	20	0
10	16QAM	25	12	18.63	18.61	18.61		
10	16QAM	25	25	18.60	18.63	18.56		
10	16QAM	50	0	18.58	18.59	18.55		
10	64QAM	1	0	18.72	18.78	18.70	20	0
10	64QAM	1	25	18.67	18.69	18.60		
10	64QAM	1	49	18.67	18.71	18.60		
10	64QAM	25	0	18.62	18.59	18.54	20	0
10	64QAM	25	12	18.65	18.59	18.60		
10	64QAM	25	25	18.55	18.65	18.49		
10	64QAM	50	0	18.60	18.56	18.54		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.58	18.50	18.45	20	0
5	QPSK	1	12	18.53	18.53	18.43		
5	QPSK	1	24	18.50	18.49	18.41		
5	QPSK	12	0	18.66	18.59	18.50	20	0
5	QPSK	12	7	18.61	18.67	18.50		
5	QPSK	12	13	18.59	18.59	18.50		
5	QPSK	25	0	18.62	18.57	18.47		
5	16QAM	1	0	18.69	18.68	18.60	20	0
5	16QAM	1	12	18.68	18.69	18.57		
5	16QAM	1	24	18.68	18.69	18.57		
5	16QAM	12	0	18.62	18.64	18.53	20	0
5	16QAM	12	7	18.65	18.66	18.55		
5	16QAM	12	13	18.64	18.65	18.53		
5	16QAM	25	0	18.62	18.59	18.54		
5	64QAM	1	0	18.63	18.60	18.49	20	0
5	64QAM	1	12	18.66	18.70	18.44		
5	64QAM	1	24	18.55	18.62	18.46		
5	64QAM	12	0	18.61	18.57	18.56	20	0
5	64QAM	12	7	18.59	18.66	18.56		
5	64QAM	12	13	18.60	18.60	18.54		
5	64QAM	25	0	18.63	18.60	18.54		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.52	18.51	18.42	20	0
3	QPSK	1	8	18.59	18.55	18.45		
3	QPSK	1	14	18.51	18.46	18.37		
3	QPSK	8	0	18.59	18.58	18.49	20	0
3	QPSK	8	4	18.62	18.63	18.47		
3	QPSK	8	7	18.62	18.57	18.48		
3	QPSK	15	0	18.63	18.61	18.45		
3	16QAM	1	0	18.64	18.63	18.55	20	0
3	16QAM	1	8	18.72	18.71	18.61		
3	16QAM	1	14	18.63	18.64	18.53		
3	16QAM	8	0	18.63	18.71	18.56	20	0
3	16QAM	8	4	18.65	18.75	18.60		
3	16QAM	8	7	18.60	18.64	18.52		
3	16QAM	15	0	18.62	18.65	18.55		
3	64QAM	1	0	18.76	18.43	18.66	20	0
3	64QAM	1	8	18.45	18.43	18.72		
3	64QAM	1	14	18.74	18.44	18.65		
3	64QAM	8	0	18.61	18.65	18.52	20	0
3	64QAM	8	4	18.61	18.68	18.58		
3	64QAM	8	7	18.60	18.64	18.46		
3	64QAM	15	0	18.57	18.64	18.51		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.45	18.42	18.28	20	0
1.4	QPSK	1	3	18.53	18.48	18.35		
1.4	QPSK	1	5	18.44	18.42	18.27		
1.4	QPSK	3	0	18.47	18.42	18.35		
1.4	QPSK	3	1	18.50	18.46	18.37		
1.4	QPSK	3	3	18.47	18.46	18.36		
1.4	QPSK	6	0	18.52	18.53	18.40	20	0
1.4	16QAM	1	0	18.78	18.74	18.67	20	0
1.4	16QAM	1	3	18.43	18.44	18.69		
1.4	16QAM	1	5	18.43	18.76	18.63		
1.4	16QAM	3	0	18.61	18.51	18.42		
1.4	16QAM	3	1	18.65	18.63	18.46		
1.4	16QAM	3	3	18.57	18.57	18.41		
1.4	16QAM	6	0	18.64	18.63	18.47	20	0
1.4	64QAM	1	0	18.70	18.68	18.58	20	0
1.4	64QAM	1	3	18.75	18.77	18.64		
1.4	64QAM	1	5	18.71	18.68	18.56		
1.4	64QAM	3	0	18.61	18.59	18.50		
1.4	64QAM	3	1	18.66	18.61	18.50		
1.4	64QAM	3	3	18.60	18.57	18.47		
1.4	64QAM	6	0	18.57	18.51	18.40	20	0

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (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	20.97	21.11	21.06	22.00	21.88	22.17	22.10	22.50
3GPP Rel 99	RMC 12.2Kbps	20.99	21.13	21.10	22.00	21.89	22.19	22.13	22.50
3GPP Rel 6	HSDPA Subtest-1	19.92	19.90	19.96	21.00	20.89	21.12	21.08	21.50
3GPP Rel 6	HSDPA Subtest-2	20.02	20.06	20.00	21.00	21.01	21.05	21.10	21.50
3GPP Rel 6	HSDPA Subtest-3	19.60	19.63	19.60	20.50	20.34	20.56	20.63	21.00
3GPP Rel 6	HSDPA Subtest-4	19.52	19.53	19.57	20.50	20.32	20.36	20.59	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	19.80	19.96	19.82	21.00	20.91	21.08	21.03	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.86	19.83	19.92	21.00	20.98	21.10	20.98	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.52	19.62	19.57	20.50	20.36	20.42	20.45	21.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.56	19.58	19.43	20.50	20.38	20.29	20.39	21.00
3GPP Rel 6	HSUPA Subtest-1	19.91	19.92	19.85	21.00	20.88	21.06	21.06	21.50
3GPP Rel 6	HSUPA Subtest-2	17.72	17.82	17.80	19.00	18.79	18.93	19.04	19.50
3GPP Rel 6	HSUPA Subtest-3	18.77	18.79	18.80	20.00	19.74	20.11	20.00	20.50
3GPP Rel 6	HSUPA Subtest-4	17.82	17.77	17.80	19.00	18.97	19.08	18.99	19.50
3GPP Rel 6	HSUPA Subtest-5	19.82	19.80	19.77	21.00	20.69	21.00	21.06	21.50

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				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	21.91	21.94	21.84		
20	QPSK	1	49	21.75	21.71	21.79	23	0
20	QPSK	1	99	21.60	21.70	21.62		
20	QPSK	50	0	21.88	21.91	21.90		
20	QPSK	50	24	21.85	21.83	21.88	23	0
20	QPSK	50	50	21.80	21.87	21.83		
20	QPSK	100	0	21.89	21.90	21.82		
20	16QAM	1	0	21.77	21.60	21.65		
20	16QAM	1	49	21.54	21.53	21.60	23	0
20	16QAM	1	99	21.35	21.50	21.38		
20	16QAM	50	0	20.86	20.86	20.93		
20	16QAM	50	24	20.86	20.85	20.88	22	1
20	16QAM	50	50	20.77	20.87	20.87		
20	16QAM	100	0	20.89	20.91	20.85		
20	64QAM	1	0	21.10	20.87	20.97		
20	64QAM	1	49	20.86	20.87	20.89	22	1
20	64QAM	1	99	20.62	20.82	20.72		
20	64QAM	50	0	19.90	19.85	19.91		
20	64QAM	50	24	19.87	19.81	19.86	21	2
20	64QAM	50	50	19.74	19.85	19.84		
20	64QAM	100	0	19.88	19.91	19.90		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	21.93	21.75	21.82		
15	QPSK	1	37	21.73	21.75	21.82	23	0
15	QPSK	1	74	21.67	21.76	21.66		
15	QPSK	36	0	21.87	21.85	21.91		
15	QPSK	36	20	21.86	21.90	21.84	23	0
15	QPSK	36	39	21.78	21.86	21.83		
15	QPSK	75	0	21.86	21.89	21.85		
15	16QAM	1	0	21.75	21.58	21.65		
15	16QAM	1	37	21.52	21.51	21.56	23	0
15	16QAM	1	74	21.41	21.54	21.34		
15	16QAM	36	0	20.89	20.84	20.84		
15	16QAM	36	20	20.86	20.91	20.82	22	1
15	16QAM	36	39	20.77	20.86	20.81		
15	16QAM	75	0	20.88	20.89	20.81		
15	64QAM	1	0	21.12	20.85	21.00		
15	64QAM	1	37	20.88	20.89	20.81	22	1
15	64QAM	1	74	20.69	20.86	20.70		
15	64QAM	36	0	19.89	19.82	19.86		
15	64QAM	36	20	19.84	19.89	19.81	21	2
15	64QAM	36	39	19.76	19.88	19.79		
15	64QAM	75	0	19.88	19.91	19.87		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	21.74	21.57	21.62		
10	QPSK	1	25	21.48	21.54	21.50	23	0
10	QPSK	1	49	21.41	21.50	21.36		
10	QPSK	25	0	21.68	21.61	21.62		
10	QPSK	25	12	21.59	21.59	21.56	23	0
10	QPSK	25	25	21.50	21.61	21.55		
10	QPSK	50	0	21.59	21.63	21.50		
10	16QAM	1	0	21.46	21.31	21.36		
10	16QAM	1	25	21.25	21.25	21.21	23	0
10	16QAM	1	49	21.14	21.27	21.12		
10	16QAM	25	0	20.71	20.65	20.64		
10	16QAM	25	12	20.67	20.62	20.61	22	1
10	16QAM	25	25	20.55	20.61	20.55		
10	16QAM	50	0	20.64	20.65	20.55		
10	64QAM	1	0	20.89	20.72	20.74		
10	64QAM	1	25	20.64	20.65	20.66	22	1
10	64QAM	1	49	20.59	20.67	20.53		
10	64QAM	25	0	19.66	19.60	19.57		
10	64QAM	25	12	19.60	19.57	19.52	21	2
10	64QAM	25	25	19.52	19.58	19.51		
10	64QAM	50	0	19.59	19.62	19.52		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	21.66	21.50	21.53		
5	QPSK	1	12	21.55	21.51	21.46	23	0
5	QPSK	1	24	21.42	21.48	21.30		
5	QPSK	12	0	21.74	21.61	21.60		
5	QPSK	12	7	21.66	21.62	21.56	23	0
5	QPSK	12	13	21.56	21.56	21.47		
5	QPSK	25	0	21.65	21.62	21.54		
5	16QAM	1	0	21.48	21.32	21.38		
5	16QAM	1	12	21.44	21.37	21.29	23	0
5	16QAM	1	24	21.31	21.35	21.23		
5	16QAM	12	0	20.78	20.62	20.64		
5	16QAM	12	7	20.67	20.64	20.60	22	1
5	16QAM	12	13	20.59	20.58	20.47		
5	16QAM	25	0	20.69	20.65	20.56		
5	64QAM	1	0	21.07	20.81	20.82		
5	64QAM	1	12	20.86	20.84	20.74	22	1
5	64QAM	1	24	20.83	20.82	20.65		
5	64QAM	12	0	19.74	19.63	19.64		
5	64QAM	12	7	19.66	19.62	19.55	21	2
5	64QAM	12	13	19.55	19.57	19.44		
5	64QAM	25	0	19.66	19.60	19.51		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	21.70	21.54	21.49		
3	QPSK	1	8	21.56	21.53	21.44	23	0
3	QPSK	1	14	21.43	21.42	21.25		
3	QPSK	8	0	21.69	21.59	21.54		
3	QPSK	8	4	21.67	21.64	21.52	23	0
3	QPSK	8	7	21.59	21.56	21.42		
3	QPSK	15	0	21.64	21.63	21.53		
3	16QAM	1	0	21.53	21.36	21.31		
3	16QAM	1	8	21.48	21.37	21.24	23	0
3	16QAM	1	14	21.31	21.24	21.08		
3	16QAM	8	0	20.78	20.64	20.60		
3	16QAM	8	4	20.75	20.68	20.55	22	1
3	16QAM	8	7	20.65	20.61	20.46		
3	16QAM	15	0	20.69	20.64	20.50		
3	64QAM	1	0	21.04	20.87	20.72		
3	64QAM	1	8	20.93	20.87	20.75	22	1
3	64QAM	1	14	20.78	20.76	20.59		
3	64QAM	8	0	19.76	19.61	19.56		
3	64QAM	8	4	19.72	19.66	19.53	21	2
3	64QAM	8	7	19.61	19.55	19.42		
3	64QAM	15	0	19.68	19.61	19.48		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	21.56	21.53	21.36		
1.4	QPSK	1	3	21.52	21.50	21.36		
1.4	QPSK	1	5	21.44	21.40	21.27	23	0
1.4	QPSK	3	0	21.55	21.47	21.33		
1.4	QPSK	3	1	21.56	21.53	21.39		
1.4	QPSK	3	3	21.46	21.41	21.26		
1.4	QPSK	6	0	21.59	21.54	21.38	23	0
1.4	16QAM	1	0	21.90	21.82	21.60		
1.4	16QAM	1	3	21.89	21.78	21.68		
1.4	16QAM	1	5	21.75	21.74	21.49	23	0
1.4	16QAM	3	0	21.65	21.58	21.45		
1.4	16QAM	3	1	21.66	21.61	21.47		
1.4	16QAM	3	3	21.57	21.49	21.36		
1.4	16QAM	6	0	20.65	20.55	20.35	22	1
1.4	64QAM	1	0	20.86	20.68	20.50		
1.4	64QAM	1	3	20.82	20.73	20.50		
1.4	64QAM	1	5	20.69	20.60	20.42	22	1
1.4	64QAM	3	0	20.71	20.60	20.48		
1.4	64QAM	3	1	20.71	20.60	20.47		
1.4	64QAM	3	3	20.62	20.51	20.37		
1.4	64QAM	6	0	19.62	19.57	19.40	21	2

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)				1720	1732.5	1745		
20	QPSK	1	0	21.72	21.91	21.76		
20	QPSK	1	49	21.59	21.71	21.59	23	0
20	QPSK	1	99	21.66	21.59	21.46		
20	QPSK	50	0	21.41	21.53	21.52		
20	QPSK	50	24	21.46	21.50	21.45	23	0
20	QPSK	50	50	21.42	21.42	21.28		
20	QPSK	100	0	21.46	21.47	21.43		
20	16QAM	1	0	21.76	21.74	21.79		
20	16QAM	1	49	21.61	21.82	21.62	23	0
20	16QAM	1	99	21.63	21.72	21.55		
20	16QAM	50	0	20.89	21.01	21.00		
20	16QAM	50	24	20.96	21.00	20.96	22	1
20	16QAM	50	50	20.95	20.94	20.80		
20	16QAM	100	0	20.94	20.99	20.93		
20	64QAM	1	0	20.70	20.61	20.76		
20	64QAM	1	49	20.61	20.69	20.63	22	1
20	64QAM	1	99	20.57	20.65	20.46		
20	64QAM	50	0	19.89	19.98	19.97		
20	64QAM	50	24	19.96	19.99	19.93	21	2
20	64QAM	50	50	19.92	19.92	19.79		
20	64QAM	100	0	19.93	19.98	19.92		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	21.37	21.47	21.37		
15	QPSK	1	37	21.30	21.46	21.27	23	0
15	QPSK	1	74	21.32	21.38	21.19		
15	QPSK	36	0	21.40	21.53	21.46		
15	QPSK	36	20	21.45	21.51	21.44	23	0
15	QPSK	36	39	21.40	21.44	21.29		
15	QPSK	75	0	21.40	21.48	21.42		
15	16QAM	1	0	21.67	21.79	21.73		
15	16QAM	1	37	21.51	21.75	21.59	23	0
15	16QAM	1	74	21.54	21.70	21.49		
15	16QAM	36	0	20.84	21.00	20.92		
15	16QAM	36	20	20.93	21.02	20.93	22	1
15	16QAM	36	39	20.90	20.93	20.77		
15	16QAM	75	0	20.91	20.96	20.91		
15	64QAM	1	0	20.61	20.64	20.46		
15	64QAM	1	37	20.37	20.64	20.58	22	1
15	64QAM	1	74	20.25	20.68	20.42		
15	64QAM	36	0	19.85	20.00	19.95		
15	64QAM	36	20	19.92	20.01	19.92	21	2
15	64QAM	36	39	19.92	19.94	19.76		
15	64QAM	75	0	19.91	19.97	19.89		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	21.47	21.58	21.55		
10	QPSK	1	25	21.43	21.58	21.34	23	0
10	QPSK	1	49	21.40	21.46	21.36		
10	QPSK	25	0	21.56	21.64	21.55		
10	QPSK	25	12	21.55	21.63	21.52	23	0
10	QPSK	25	25	21.50	21.56	21.48		
10	QPSK	50	0	21.52	21.61	21.52		
10	16QAM	1	0	21.72	21.85	21.76		
10	16QAM	1	25	21.67	21.82	21.60	23	0
10	16QAM	1	49	21.66	21.80	21.66		
10	16QAM	25	0	21.06	21.16	21.08		
10	16QAM	25	12	21.06	21.18	21.09	22	1
10	16QAM	25	25	21.02	21.11	20.98		
10	16QAM	50	0	21.04	21.12	21.04		
10	64QAM	1	0	20.67	20.79	20.65		
10	64QAM	1	25	20.58	20.79	20.57	22	1
10	64QAM	1	49	20.54	20.76	20.58		
10	64QAM	25	0	20.04	20.13	20.05		
10	64QAM	25	12	20.00	20.15	20.04	21	2
10	64QAM	25	25	20.02	20.07	20.00		
10	64QAM	50	0	20.00	20.12	20.03		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	21.48	21.58	21.44		
5	QPSK	1	12	21.39	21.64	21.44	23	0
5	QPSK	1	24	21.43	21.56	21.43		
5	QPSK	12	0	21.53	21.67	21.49		
5	QPSK	12	7	21.53	21.68	21.50	23	0
5	QPSK	12	13	21.51	21.63	21.50		
5	QPSK	25	0	21.53	21.64	21.49		
5	16QAM	1	0	21.79	21.88	21.74		
5	16QAM	1	12	21.75	21.89	21.70	23	0
5	16QAM	1	24	21.77	21.82	21.68		
5	16QAM	12	0	21.04	21.18	21.02		
5	16QAM	12	7	21.06	21.19	21.02	22	1
5	16QAM	12	13	21.04	21.13	20.99		
5	16QAM	25	0	21.01	21.15	20.97		
5	64QAM	1	0	20.70	20.86	20.71		
5	64QAM	1	12	20.72	20.86	20.62	22	1
5	64QAM	1	24	20.72	20.78	20.61		
5	64QAM	12	0	19.99	20.14	19.99		
5	64QAM	12	7	20.00	20.16	20.02	21	2
5	64QAM	12	13	20.01	20.13	20.04		
5	64QAM	25	0	19.99	20.15	19.97		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	21.47	21.55	21.43		
3	QPSK	1	8	21.50	21.65	21.43	23	0
3	QPSK	1	14	21.44	21.54	21.40		
3	QPSK	8	0	21.50	21.61	21.47		
3	QPSK	8	4	21.54	21.65	21.52	23	0
3	QPSK	8	7	21.48	21.61	21.49		
3	QPSK	15	0	21.51	21.60	21.46		
3	16QAM	1	0	21.79	21.87	21.73		
3	16QAM	1	8	21.83	21.90	21.77	23	0
3	16QAM	1	14	21.74	21.85	21.69		
3	16QAM	8	0	21.07	21.18	21.03		
3	16QAM	8	4	21.08	21.21	21.04	22	1
3	16QAM	8	7	21.04	21.20	21.04		
3	16QAM	15	0	21.05	21.17	21.00		
3	64QAM	1	0	20.89	20.79	20.61		
3	64QAM	1	8	20.72	20.91	20.68	22	1
3	64QAM	1	14	20.66	20.72	20.61		
3	64QAM	8	0	20.06	20.15	19.98		
3	64QAM	8	4	20.06	20.14	20.04	21	2
3	64QAM	8	7	20.00	20.14	19.99		
3	64QAM	15	0	20.02	20.13	19.97		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.35	21.47	21.33		
1.4	QPSK	1	3	21.44	21.59	21.41		
1.4	QPSK	1	5	21.35	21.50	21.31	23	0
1.4	QPSK	3	0	21.42	21.50	21.33		
1.4	QPSK	3	1	21.42	21.59	21.34		
1.4	QPSK	3	3	21.40	21.53	21.34		
1.4	QPSK	6	0	21.44	21.57	21.39	23	0
1.4	16QAM	1	0	21.67	21.76	21.60		
1.4	16QAM	1	3	21.70	21.88	21.65		
1.4	16QAM	1	5	21.66	21.84	21.58	23	0
1.4	16QAM	3	0	21.47	21.58	21.42		
1.4	16QAM	3	1	21.52	21.67	21.46		
1.4	16QAM	3	3	21.49	21.62	21.40		
1.4	16QAM	6	0	21.04	21.15	20.99	22	1
1.4	64QAM	1	0	20.58	20.62	20.50		
1.4	64QAM	1	3	20.62	20.74	20.52		
1.4	64QAM	1	5	20.53	20.70	20.47	22	1
1.4	64QAM	3	0	20.46	20.60	20.44		
1.4	64QAM	3	1	20.51	20.71	20.47		
1.4	64QAM	3	3	20.49	20.66	20.41		
1.4	64QAM	6	0	19.96	20.08	19.88	21	2

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	18.51	18.75	18.40		
20	QPSK	1	49	18.50	18.51	18.45	20	0
20	QPSK	1	99	18.57	18.59	18.61		
20	QPSK	50	0	18.70	18.74	18.64		
20	QPSK	50	24	18.72	18.71	18.70	20	0
20	QPSK	50	50	18.65	18.65	18.69		
20	QPSK	100	0	18.67	18.73	18.69		
20	16QAM	1	0	18.43	18.39	18.33		
20	16QAM	1	49	18.45	18.41	18.36	20	0
20	16QAM	1	99	18.53	18.50	18.54		
20	16QAM	50	0	18.36	18.28	18.21		
20	16QAM	50	24	18.43	18.36	18.27	20	0
20	16QAM	50	50	18.33	18.30	18.29		
20	16QAM	100	0	18.40	18.35	18.27		
20	64QAM	1	0	18.23	18.35	18.20		
20	64QAM	1	49	18.34	18.26	18.30	20	0
20	64QAM	1	99	18.41	18.31	18.39		
20	64QAM	50	0	18.46	18.42	18.34		
20	64QAM	50	24	18.50	18.48	18.38	20	0
20	64QAM	50	50	18.44	18.34	18.41		
20	64QAM	100	0	18.52	18.45	18.39		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.51	18.40	18.34		
15	QPSK	1	37	18.47	18.45	18.40	20	0
15	QPSK	1	74	18.52	18.50	18.47		
15	QPSK	36	0	18.37	18.29	18.21		
15	QPSK	36	20	18.27	18.31	18.25	20	0
15	QPSK	36	39	18.28	18.30	18.27		
15	QPSK	75	0	18.30	18.34	18.27		
15	16QAM	1	0	18.50	18.46	18.34		
15	16QAM	1	37	18.51	18.46	18.33	20	0
15	16QAM	1	74	18.57	18.53	18.52		
15	16QAM	36	0	18.38	18.27	18.23		
15	16QAM	36	20	18.35	18.31	18.27	20	0
15	16QAM	36	39	18.33	18.29	18.27		
15	16QAM	75	0	18.36	18.32	18.27		
15	64QAM	1	0	18.53	18.47	18.44		
15	64QAM	1	37	18.54	18.50	18.51	20	0
15	64QAM	1	74	18.65	18.56	18.59		
15	64QAM	36	0	18.74	18.60	18.60		
15	64QAM	36	20	18.69	18.64	18.59	20	0
15	64QAM	36	39	18.71	18.65	18.62		
15	64QAM	75	0	18.71	18.66	18.63		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.43	18.32	18.30		
10	QPSK	1	25	18.49	18.38	18.33	20	0
10	QPSK	1	49	18.48	18.48	18.37		
10	QPSK	25	0	18.54	18.48	18.37		
10	QPSK	25	12	18.60	18.51	18.42	20	0
10	QPSK	25	25	18.49	18.52	18.43		
10	QPSK	50	0	18.49	18.48	18.39		
10	16QAM	1	0	18.72	18.65	18.55		
10	16QAM	1	25	18.64	18.62	18.59	20	0
10	16QAM	1	49	18.61	18.66	18.71		
10	16QAM	25	0	18.58	18.48	18.42		
10	16QAM	25	12	18.60	18.54	18.47	20	0
10	16QAM	25	25	18.49	18.48	18.46		
10	16QAM	50	0	18.47	18.47	18.45		
10	64QAM	1	0	18.61	18.51	18.41		
10	64QAM	1	25	18.49	18.54	18.45	20	0
10	64QAM	1	49	18.48	18.60	18.60		
10	64QAM	25	0	18.48	18.61	18.52		
10	64QAM	25	12	18.38	18.60	18.55	20	0
10	64QAM	25	25	18.62	18.58	18.59		
10	64QAM	50	0	18.57	18.60	18.58		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.44	18.36	18.26		
5	QPSK	1	12	18.46	18.37	18.35	20	0
5	QPSK	1	24	18.48	18.41	18.37		
5	QPSK	12	0	18.51	18.44	18.33		
5	QPSK	12	7	18.58	18.51	18.44	20	0
5	QPSK	12	13	18.62	18.55	18.46		
5	QPSK	25	0	18.55	18.44	18.39		
5	16QAM	1	0	18.71	18.62	18.60		
5	16QAM	1	12	18.64	18.66	18.64	20	0
5	16QAM	1	24	18.69	18.73	18.72		
5	16QAM	12	0	18.48	18.42	18.39		
5	16QAM	12	7	18.57	18.52	18.48	20	0
5	16QAM	12	13	18.58	18.49	18.50		
5	16QAM	25	0	18.55	18.48	18.43		
5	64QAM	1	0	18.38	18.56	18.53		
5	64QAM	1	12	18.59	18.55	18.51	20	0
5	64QAM	1	24	18.38	18.55	18.55		
5	64QAM	12	0	18.59	18.49	18.48		
5	64QAM	12	7	18.48	18.62	18.59	20	0
5	64QAM	12	13	18.37	18.50	18.62		
5	64QAM	25	0	18.50	18.57	18.56		

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	21.65	21.90	21.68	23	0
20	QPSK	1	49	21.66	21.63	21.54		
20	QPSK	1	99	21.66	21.53	21.49		
20	QPSK	50	0	21.42	21.47	21.36	23	0
20	QPSK	50	24	21.46	21.37	21.34		
20	QPSK	50	50	21.41	21.38	21.38		
20	QPSK	100	0	21.40	21.45	21.31		
20	16QAM	1	0	21.71	21.66	21.73	23	0
20	16QAM	1	49	21.62	21.65	21.58		
20	16QAM	1	99	21.53	21.56	21.55		
20	16QAM	50	0	20.90	20.91	20.88	22	1
20	16QAM	50	24	20.96	20.91	20.86		
20	16QAM	50	50	20.94	20.92	20.87		
20	16QAM	100	0	20.96	20.86	20.80		
20	64QAM	1	0	20.60	20.60	20.61	22	1
20	64QAM	1	49	20.45	20.52	20.46		
20	64QAM	1	99	20.29	20.46	20.46		
20	64QAM	50	0	19.88	19.91	19.87	21	2
20	64QAM	50	24	19.98	19.90	19.83		
20	64QAM	50	50	19.94	19.92	19.85		
20	64QAM	100	0	19.97	19.87	19.83		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	21.31	21.34	21.35	23	0
15	QPSK	1	37	21.33	21.32	21.31		
15	QPSK	1	74	21.29	21.25	21.22		
15	QPSK	36	0	21.43	21.36	21.32	23	0
15	QPSK	36	20	21.41	21.37	21.30		
15	QPSK	36	39	21.39	21.40	21.33		
15	QPSK	75	0	21.43	21.33	21.26		
15	16QAM	1	0	21.62	21.67	21.66	23	0
15	16QAM	1	37	21.56	21.60	21.62		
15	16QAM	1	74	21.50	21.57	21.57		
15	16QAM	36	0	20.95	20.89	20.82	22	1
15	16QAM	36	20	20.94	20.90	20.82		
15	16QAM	36	39	20.91	20.89	20.83		
15	16QAM	75	0	20.92	20.88	20.82		
15	64QAM	1	0	20.54	20.52	20.55	22	1
15	64QAM	1	37	20.48	20.46	20.43		
15	64QAM	1	74	20.30	20.48	20.47		
15	64QAM	36	0	19.92	19.87	19.83	21	2
15	64QAM	36	20	19.92	19.86	19.80		
15	64QAM	36	39	19.87	19.90	19.83		
15	64QAM	75	0	19.92	19.85	19.81		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	21.45	21.47	21.45	23	0
10	QPSK	1	25	21.40	21.44	21.38		
10	QPSK	1	49	21.41	21.40	21.34		
10	QPSK	25	0	21.59	21.51	21.54	23	0
10	QPSK	25	12	21.59	21.51	21.52		
10	QPSK	25	25	21.53	21.52	21.45		
10	QPSK	50	0	21.55	21.50	21.50		
10	16QAM	1	0	21.77	21.80	21.79	23	0
10	16QAM	1	25	21.72	21.72	21.71		
10	16QAM	1	49	21.72	21.77	21.68		
10	16QAM	25	0	21.11	21.04	21.07	22	1
10	16QAM	25	12	21.14	21.05	21.06		
10	16QAM	25	25	21.07	21.10	20.97		
10	16QAM	50	0	21.09	21.03	21.03		
10	64QAM	1	0	20.77	20.71	20.73	22	1
10	64QAM	1	25	20.69	20.70	20.65		
10	64QAM	1	49	20.68	20.69	20.58		
10	64QAM	25	0	20.10	20.00	20.06	21	2
10	64QAM	25	12	20.08	20.04	20.04		
10	64QAM	25	25	20.06	20.05	19.97		
10	64QAM	50	0	20.08	19.99	20.02		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	21.56	21.45	21.47	23	0
5	QPSK	1	12	21.47	21.54	21.45		
5	QPSK	1	24	21.49	21.46	21.40		
5	QPSK	12	0	21.60	21.54	21.51	23	0
5	QPSK	12	7	21.56	21.62	21.51		
5	QPSK	12	13	21.55	21.57	21.47		
5	QPSK	25	0	21.60	21.49	21.49		
5	16QAM	1	0	21.89	21.79	21.81	23	0
5	16QAM	1	12	21.81	21.82	21.72		
5	16QAM	1	24	21.85	21.83	21.72		
5	16QAM	12	0	21.14	21.05	21.04	22	1
5	16QAM	12	7	21.10	21.12	21.03		
5	16QAM	12	13	21.08	21.10	21.00		
5	16QAM	25	0	21.11	21.03	21.05		
5	64QAM	1	0	20.82	20.74	20.69	22	1
5	64QAM	1	12	20.83	20.76	20.64		
5	64QAM	1	24	20.78	20.74	20.61		
5	64QAM	12	0	20.11	20.04	20.05	21	2
5	64QAM	12	7	20.11	20.10	20.05		
5	64QAM	12	13	20.11	20.09	20.01		
5	64QAM	25	0	20.12	20.04	20.03		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	21.49	21.50	21.41	23	0
3	QPSK	1	8	21.56	21.54	21.43		
3	QPSK	1	14	21.48	21.47	21.37		
3	QPSK	8	0	21.55	21.53	21.46	23	0
3	QPSK	8	4	21.57	21.56	21.50		
3	QPSK	8	7	21.59	21.52	21.44		
3	QPSK	15	0	21.59	21.55	21.47		
3	16QAM	1	0	21.85	21.86	21.73	23	0
3	16QAM	1	8	21.53	21.87	21.82		
3	16QAM	1	14	21.82	21.81	21.75		
3	16QAM	8	0	21.14	21.13	21.04	22	1
3	16QAM	8	4	21.19	21.15	21.06		
3	16QAM	8	7	21.11	21.12	21.03		
3	16QAM	15	0	21.09	21.11	21.01		
3	64QAM	1	0	20.76	20.75	20.63	22	1
3	64QAM	1	8	20.79	20.80	20.70		
3	64QAM	1	14	20.72	20.71	20.60		
3	64QAM	8	0	20.11	20.10	20.01	21	2
3	64QAM	8	4	20.09	20.11	20.02		
3	64QAM	8	7	20.09	20.08	19.98		
3	64QAM	15	0	20.05	20.07	20.03		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	21.40	21.37	21.29	23	0
1.4	QPSK	1	3	21.46	21.45	21.37		
1.4	QPSK	1	5	21.39	21.40	21.29		
1.4	QPSK	3	0	21.44	21.42	21.34		
1.4	QPSK	3	1	21.46	21.45	21.39		
1.4	QPSK	3	3	21.42	21.40	21.35		
1.4	QPSK	6	0	21.50	21.48	21.39	23	0
1.4	16QAM	1	0	21.76	21.73	21.67	23	0
1.4	16QAM	1	3	21.83	21.79	21.73		
1.4	16QAM	1	5	21.73	21.74	21.64		
1.4	16QAM	3	0	21.54	21.53	21.44		
1.4	16QAM	3	1	21.58	21.57	21.49		
1.4	16QAM	3	3	21.52	21.50	21.42		
1.4	16QAM	6	0	21.04	21.07	21.00	22	1
1.4	64QAM	1	0	20.67	20.66	20.55	22	1
1.4	64QAM	1	3	20.70	20.72	20.56		
1.4	64QAM	1	5	20.64	20.64	20.55		
1.4	64QAM	3	0	20.57	20.57	20.48		
1.4	64QAM	3	1	20.60	20.62	20.54		
1.4	64QAM	3	3	20.55	20.59	20.50		
1.4	64QAM	6	0	19.98	20.00	19.89	21	2

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	21.02	21.26	21.19	22.5	0
20	QPSK	1	49	21.11	21.10	21.00		
20	QPSK	1	99	21.24	21.23	21.02		
20	QPSK	50	0	21.01	21.20	21.21	22.5	0
20	QPSK	50	24	21.19	21.11	21.12		
20	QPSK	50	50	21.20	21.25	21.11		
20	QPSK	100	0	21.13	21.13	21.12		
20	16QAM	1	0	20.94	21.13	21.21	22.5	0
20	16QAM	1	49	20.96	21.18	21.23		
20	16QAM	1	99	21.14	21.12	21.25		
20	16QAM	50	0	20.60	20.77	20.82	22	0.5
20	16QAM	50	24	20.76	20.86	20.97		
20	16QAM	50	50	20.81	20.92	20.95		
20	16QAM	100	0	20.74	20.82	20.94		
20	64QAM	1	0	20.51	20.63	20.62	22	0.5
20	64QAM	1	49	20.51	20.62	20.81		
20	64QAM	1	99	20.59	20.64	20.82		
20	64QAM	50	0	19.52	19.71	19.80	21	1.5
20	64QAM	50	24	19.71	19.79	19.92		
20	64QAM	50	50	19.75	19.86	19.89		
20	64QAM	100	0	19.78	19.86	19.97		
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	20.75	20.93	20.99	22.5	0
15	QPSK	1	37	20.83	21.01	21.07		
15	QPSK	1	74	20.97	21.06	21.10		
15	QPSK	36	0	20.79	20.97	21.03	22.5	0
15	QPSK	36	20	20.95	21.05	21.11		
15	QPSK	36	39	20.93	21.10	21.13		
15	QPSK	75	0	20.89	21.03	21.06		
15	16QAM	1	0	20.91	21.14	21.15	22.5	0
15	16QAM	1	37	20.91	21.15	21.13		
15	16QAM	1	74	21.07	21.11	21.10		
15	16QAM	36	0	20.55	20.71	20.78	22	0.5
15	16QAM	36	20	20.70	20.80	20.87		
15	16QAM	36	39	20.70	20.87	20.88		
15	16QAM	75	0	20.70	20.81	20.86		
15	64QAM	1	0	20.54	20.58	20.63	22	0.5
15	64QAM	1	37	20.53	20.60	20.79		
15	64QAM	1	74	20.51	20.64	20.81		
15	64QAM	36	0	19.55	19.76	19.83	21	1.5
15	64QAM	36	20	19.72	19.84	19.87		
15	64QAM	36	39	19.70	19.89	19.91		
15	64QAM	75	0	19.70	19.80	19.84		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	20.86	21.07	21.03	22.5	0
10	QPSK	1	25	20.92	21.13	21.01		
10	QPSK	1	49	20.98	21.19	21.06		
10	QPSK	25	0	21.03	21.12	21.03	22.5	0
10	QPSK	25	12	21.06	21.19	21.15		
10	QPSK	25	25	21.04	21.25	21.15		
10	QPSK	50	0	21.03	21.19	21.02		
10	16QAM	1	0	21.03	21.21	21.12	22.5	0
10	16QAM	1	25	20.99	21.25	21.10		
10	16QAM	1	49	21.04	21.11	21.15		
10	16QAM	25	0	20.78	20.93	20.81	22	0.5
10	16QAM	25	12	20.88	21.00	20.85		
10	16QAM	25	25	20.83	20.88	20.93		
10	16QAM	50	0	20.85	20.97	20.85		
10	64QAM	1	0	20.59	20.81	20.71	22	0.5
10	64QAM	1	25	20.59	20.76	20.69		
10	64QAM	1	49	20.69	20.97	20.81		
10	64QAM	25	0	19.79	19.91	19.82	21	1.5
10	64QAM	25	12	19.79	19.93	19.93		
10	64QAM	25	25	19.80	20.01	19.90		
10	64QAM	50	0	19.78	19.91	19.74		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	20.93	20.92	20.83	22.5	0
5	QPSK	1	12	20.88	20.94	20.97		
5	QPSK	1	24	20.89	21.00	21.00		
5	QPSK	12	0	20.99	21.01	21.10	22.5	0
5	QPSK	12	7	21.02	21.02	21.13		
5	QPSK	12	13	21.02	21.05	21.12		
5	QPSK	25	0	21.02	20.99	21.12		
5	16QAM	1	0	21.07	21.07	21.10	22.5	0
5	16QAM	1	12	21.11	21.16	21.10		
5	16QAM	1	24	21.11	21.16	21.02		
5	16QAM	12	0	20.79	20.78	20.87	22	0.5
5	16QAM	12	7	20.80	20.80	20.92		
5	16QAM	12	13	20.81	20.84	20.88		
5	16QAM	25	0	20.80	20.82	20.89		
5	64QAM	1	0	20.61	20.62	20.68	22	0.5
5	64QAM	1	12	20.48	20.57	20.59		
5	64QAM	1	24	20.60	20.67	20.70		
5	64QAM	12	0	19.78	19.75	19.87	21	1.5
5	64QAM	12	7	19.78	19.79	19.90		
5	64QAM	12	13	19.78	19.82	19.88		
5	64QAM	25	0	19.78	19.77	19.87		

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				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.99	20.87	21.27	20.98	20.90	22.5	0
20	QPSK	1	49	21.03	20.90	20.86	21.09	20.98		
20	QPSK	1	99	21.00	20.91	20.95	21.10	21.03		
20	QPSK	50	0	21.15	21.07	21.20	21.00	20.94	22.5	0
20	QPSK	50	24	21.14	21.10	21.04	21.11	21.02		
20	QPSK	50	50	21.08	21.08	21.05	21.07	21.07		
20	QPSK	100	0	21.17	21.07	21.18	21.07	21.00		
20	16QAM	1	0	21.12	21.04	21.01	21.00	21.11	22.5	0
20	16QAM	1	49	21.09	20.97	20.99	21.02	21.12		
20	16QAM	1	99	21.14	21.04	20.75	21.04	21.24		
20	16QAM	50	0	20.96	20.87	20.71	20.61	20.68	22	0.5
20	16QAM	50	24	20.98	20.87	20.84	20.76	20.77		
20	16QAM	50	50	20.88	20.88	20.87	20.74	20.84		
20	16QAM	100	0	20.94	20.86	20.81	20.73	20.78		
20	64QAM	1	0	20.81	20.51	20.72	20.41	20.55	22	0.5
20	64QAM	1	49	20.72	20.62	20.52	20.60	20.57		
20	64QAM	1	99	20.59	20.54	20.64	20.61	20.61		
20	64QAM	50	0	19.91	19.82	19.68	19.59	19.73	21	1.5
20	64QAM	50	24	19.92	19.82	19.78	19.71	19.81		
20	64QAM	50	50	19.83	19.84	19.83	19.68	19.86		
20	64QAM	100	0	19.98	19.93	19.85	19.76	19.77		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.99	20.92	21.06	21.17	20.98	22.5	0
15	QPSK	1	37	20.96	20.85	20.99	21.06	21.09		
15	QPSK	1	74	20.94	20.93	21.13	21.13	21.10		
15	QPSK	36	0	21.11	21.05	21.11	21.15	21.00	22.5	0
15	QPSK	36	20	21.13	21.04	21.20	21.05	21.11		
15	QPSK	36	39	21.11	21.07	21.23	21.13	21.07		
15	QPSK	75	0	21.15	21.07	20.90	21.12	21.07		
15	16QAM	1	0	21.14	21.12	20.82	20.92	21.00	22.5	0
15	16QAM	1	37	21.04	20.96	21.14	20.97	21.02		
15	16QAM	1	74	21.11	21.13	21.02	20.92	21.04		
15	16QAM	36	0	20.89	20.82	20.84	20.74	20.61	22	0.5
15	16QAM	36	20	20.91	20.83	20.68	20.83	20.76		
15	16QAM	36	39	20.87	20.84	20.59	20.89	20.74		
15	16QAM	75	0	20.95	20.85	20.69	20.79	20.73		
15	64QAM	1	0	20.83	20.67	20.89	20.60	20.41	22	0.5
15	64QAM	1	37	20.81	20.54	20.74	20.59	20.60		
15	64QAM	1	74	20.67	20.59	20.77	20.61	20.61		
15	64QAM	36	0	19.90	19.86	19.89	19.68	19.59	21	1.5
15	64QAM	36	20	19.90	19.85	19.57	19.76	19.71		
15	64QAM	36	39	19.90	19.86	19.69	19.83	19.68		
15	64QAM	75	0	19.93	19.86	19.58	19.83	19.76		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.99	21.09	21.02	20.91	20.97	22.5	0
10	QPSK	1	25	21.00	21.09	21.07	20.99	21.05		
10	QPSK	1	49	20.97	21.04	21.09	21.04	21.08		
10	QPSK	25	0	20.92	21.01	20.90	20.95	21.01	22.5	0
10	QPSK	25	12	20.96	21.02	21.02	21.03	21.09		
10	QPSK	25	25	20.94	21.03	21.00	21.08	21.11		
10	QPSK	50	0	20.91	21.00	20.99	21.01	21.04		
10	16QAM	1	0	20.96	21.05	20.94	21.12	21.13	22.5	0
10	16QAM	1	25	20.98	21.11	21.06	21.13	21.11		
10	16QAM	1	49	20.91	21.01	20.99	20.91	20.82		
10	16QAM	25	0	20.75	20.80	20.69	20.69	20.76	22	0.5
10	16QAM	25	12	20.75	20.85	20.83	20.78	20.85		
10	16QAM	25	25	20.72	20.81	20.80	20.85	20.86		
10	16QAM	50	0	20.74	20.83	20.81	20.79	20.84		
10	64QAM	1	0	20.85	20.91	20.76	20.56	20.61	22	0.5
10	64QAM	1	25	20.63	20.70	20.75	20.58	20.77		
10	64QAM	1	49	20.71	20.76	20.81	20.62	20.79		
10	64QAM	25	0	19.87	19.70	19.85	19.74	19.81	21	1.5
10	64QAM	25	12	19.91	19.99	19.97	19.82	19.85		
10	64QAM	25	25	19.91	19.68	19.63	19.87	19.89		
10	64QAM	50	0	19.84	19.94	19.92	19.78	19.82		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.05	21.07	21.00	20.84	21.05	22.5	0
5	QPSK	1	12	21.01	21.07	21.08	20.90	21.11		
5	QPSK	1	24	20.98	21.04	21.09	20.96	21.17		
5	QPSK	12	0	20.90	21.00	20.99	21.01	21.10	22.5	0
5	QPSK	12	7	20.92	21.00	21.02	21.04	21.17		
5	QPSK	12	13	20.92	21.02	21.00	21.02	21.23		
5	QPSK	25	0	20.90	20.98	20.98	21.01	21.17		
5	16QAM	1	0	20.99	21.19	21.02	21.01	21.19	22.5	0
5	16QAM	1	12	21.02	21.16	21.11	20.97	21.23		
5	16QAM	1	24	20.96	21.07	21.16	21.02	20.93		
5	16QAM	12	0	20.68	20.80	20.75	20.76	20.69	22	0.5
5	16QAM	12	7	20.69	20.80	20.78	20.86	20.68		
5	16QAM	12	13	20.67	20.74	20.77	20.81	20.79		
5	16QAM	25	0	20.71	20.84	20.79	20.83	20.59		
5	64QAM	1	0	20.72	20.88	20.69	20.57	20.79	22	0.5
5	64QAM	1	12	20.60	20.72	20.74	20.57	20.74		
5	64QAM	1	24	20.70	20.76	20.83	20.67	20.95		
5	64QAM	12	0	19.86	19.98	19.95	19.77	19.89	21	1.5
5	64QAM	12	7	19.90	19.99	19.98	19.77	19.91		
5	64QAM	12	13	19.88	19.94	19.95	19.78	19.99		
5	64QAM	25	0	19.86	19.98	19.93	19.76	19.89		

Reduced Power Mode for Receiver On for ANT2

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.21	29.96	30.13	31.50	21.21	20.96	21.13	22.50
GPRS 1 Tx slot	30.20	29.95	30.12	31.50	21.20	20.95	21.12	22.50
GPRS 2 Tx slots	27.09	26.80	27.13	28.00	21.09	20.80	21.13	22.00
GPRS 3 Tx slots	25.87	26.10	25.75	27.00	21.61	21.84	21.49	22.74
GPRS 4 Tx slots	24.25	24.23	24.14	25.00	21.25	21.23	21.14	22.00
EDGE 1 Tx slot	23.15	23.04	23.05	24.00	14.15	14.04	14.05	15.00
EDGE 2 Tx slots	21.79	21.93	21.76	23.00	15.79	15.93	15.76	17.00
EDGE 3 Tx slots	20.67	20.79	20.54	21.50	16.41	16.53	16.28	17.24
EDGE 4 Tx slots	18.70	18.81	18.77	19.50	15.70	15.81	15.77	16.50

Band		WCDMA V			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.38	22.47	22.48	23.00
3GPP Rel 99	RMC 12.2Kbps	22.49	22.50	22.38	23.00
3GPP Rel 6	HSDPA Subtest-1	21.53	21.40	21.45	22.00
3GPP Rel 6	HSDPA Subtest-2	21.52	21.43	21.42	22.00
3GPP Rel 6	HSDPA Subtest-3	21.03	20.93	20.92	21.50
3GPP Rel 6	HSDPA Subtest-4	21.04	20.93	20.93	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.50	21.38	21.44	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.49	21.41	21.41	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.00	20.91	20.91	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.01	20.91	20.92	21.50
3GPP Rel 6	HSUPA Subtest-1	21.49	21.42	21.42	22.00
3GPP Rel 6	HSUPA Subtest-2	19.51	19.46	19.41	20.00
3GPP Rel 6	HSUPA Subtest-3	20.45	20.44	20.38	21.00
3GPP Rel 6	HSUPA Subtest-4	19.49	19.42	19.37	20.00
3GPP Rel 6	HSUPA Subtest-5	21.53	21.43	21.43	22.00

Band 5 (Celluar Band)
Part 22H(only on channel required)-ENDC

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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	19.36	19.55	19.29		
10	QPSK	1	25	19.25	19.27	19.22	20	0
10	QPSK	1	49	19.24	19.28	19.28		
10	QPSK	25	0	19.36	19.43	19.20		
10	QPSK	25	12	19.40	19.39	19.22	20	0
10	QPSK	25	25	19.36	19.33	19.25		
10	QPSK	50	0	19.41	19.45	19.21		
10	16QAM	1	0	19.45	19.38	19.27		
10	16QAM	1	25	19.32	19.32	19.24	20	0
10	16QAM	1	49	19.37	19.30	19.21		
10	16QAM	25	0	19.18	19.08	19.07		
10	16QAM	25	12	19.22	19.20	19.07	20	0
10	16QAM	25	25	19.16	19.12	19.08		
10	16QAM	50	0	19.24	19.17	19.02		
10	64QAM	1	0	19.32	19.30	19.18		
10	64QAM	1	25	19.23	19.20	19.10	20	0
10	64QAM	1	49	19.29	19.19	19.12		
10	64QAM	25	0	19.11	19.04	19.08		
10	64QAM	25	12	19.26	19.15	19.05	20	0
10	64QAM	25	25	19.13	19.14	19.09		
10	64QAM	50	0	19.20	19.12	19.02		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	19.22	19.06	19.23		
5	QPSK	1	12	19.13	19.04	19.14	20	0
5	QPSK	1	24	19.16	19.06	19.09		
5	QPSK	12	0	19.26	19.08	19.18		
5	QPSK	12	7	19.22	19.12	19.19	20	0
5	QPSK	12	13	19.25	19.11	19.21		
5	QPSK	25	0	19.26	19.13	19.17		
5	16QAM	1	0	19.51	19.36	19.39		
5	16QAM	1	12	19.44	19.35	19.45	20	0
5	16QAM	1	24	19.52	19.42	19.47		
5	16QAM	12	0	19.23	19.11	19.19		
5	16QAM	12	7	19.21	19.14	19.20	20	0
5	16QAM	12	13	19.24	19.14	19.24		
5	16QAM	25	0	19.25	19.09	19.21		
5	64QAM	1	0	19.49	19.28	19.31		
5	64QAM	1	12	19.35	19.23	19.34	20	0
5	64QAM	1	24	19.46	19.34	19.37		
5	64QAM	12	0	19.23	19.07	19.18		
5	64QAM	12	7	19.22	19.10	19.17	20	0
5	64QAM	12	13	19.21	19.11	19.23		
5	64QAM	25	0	19.26	19.16	19.18		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	19.20	19.02	19.16		
3	QPSK	1	8	19.19	19.06	19.20	20	0
3	QPSK	1	14	19.18	19.05	19.13		
3	QPSK	8	0	19.23	19.06	19.19		
3	QPSK	8	4	19.24	19.14	19.25	20	0
3	QPSK	8	7	19.22	19.08	19.24		
3	QPSK	15	0	19.22	19.11	19.21		
3	16QAM	1	0	19.53	19.36	19.48		
3	16QAM	1	8	19.54	19.41	19.51	20	0
3	16QAM	1	14	19.47	19.41	19.47		
3	16QAM	8	0	19.31	19.13	19.22		
3	16QAM	8	4	19.27	19.17	19.30	20	0
3	16QAM	8	7	19.22	19.20	19.26		
3	16QAM	15	0	19.21	19.12	19.16		
3	64QAM	1	0	19.45	19.27	19.26		
3	64QAM	1	8	19.44	19.33	19.47	20	0
3	64QAM	1	14	19.40	19.32	19.35		
3	64QAM	8	0	19.24	19.11	19.16		
3	64QAM	8	4	19.23	19.14	19.24	20	0
3	64QAM	8	7	19.21	19.13	19.25		
3	64QAM	15	0	19.24	19.13	19.15		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.09	19.09	19.06		
1.4	QPSK	1	3	19.15	19.20	19.07		
1.4	QPSK	1	5	19.07	19.16	19.06	20	0
1.4	QPSK	3	0	19.10	19.09	19.04		
1.4	QPSK	3	1	19.14	19.19	19.07		
1.4	QPSK	3	3	19.10	19.12	19.05		
1.4	QPSK	6	0	19.17	19.02	19.13	20	0
1.4	16QAM	1	0	19.39	19.20	19.35		
1.4	16QAM	1	3	19.50	19.29	19.42		
1.4	16QAM	1	5	19.38	19.25	19.38	20	0
1.4	16QAM	3	0	19.20	19.01	19.11		
1.4	16QAM	3	1	19.23	19.06	19.13		
1.4	16QAM	3	3	19.13	19.01	19.08		
1.4	16QAM	6	0	19.25	19.10	19.18	20	0
1.4	64QAM	1	0	19.30	19.07	19.27		
1.4	64QAM	1	3	19.32	19.18	19.26		
1.4	64QAM	1	5	19.27	19.13	19.26	20	0
1.4	64QAM	3	0	19.19	19.01	19.12		
1.4	64QAM	3	1	19.25	19.13	19.17		
1.4	64QAM	3	3	19.19	19.06	19.15		
1.4	64QAM	6	0	19.16	19.06	19.09	20	0

Band 7 (2600MHz Band)
Part 27-ENDC

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	19.23	19.33	19.22		
20	QPSK	1	49	19.27	19.22	18.93	19.5	0
20	QPSK	1	99	19.32	19.32	19.07		
20	QPSK	50	0	19.15	19.21	18.88		
20	QPSK	50	24	19.20	19.07	18.91	19.5	0
20	QPSK	50	50	19.13	19.07	18.83		
20	QPSK	100	0	19.15	19.21	18.92		
20	16QAM	1	0	18.94	18.94	18.69		
20	16QAM	1	49	19.07	18.92	18.68	19.5	0
20	16QAM	1	99	19.12	19.01	18.77		
20	16QAM	50	0	19.15	19.11	18.86		
20	16QAM	50	24	19.23	19.08	18.90	19.5	0
20	16QAM	50	50	19.14	19.05	18.85		
20	16QAM	100	0	19.21	19.04	18.92		
20	64QAM	1	0	19.06	19.12	18.92		
20	64QAM	1	49	19.18	19.15	18.88	19.5	0
20	64QAM	1	99	19.11	19.16	18.73		
20	64QAM	50	0	19.15	19.08	18.87		
20	64QAM	50	24	19.20	19.05	18.90	19.5	0
20	64QAM	50	50	19.14	19.07	18.81		
20	64QAM	100	0	19.22	19.04	18.89		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	19.02	18.94	18.65		
15	QPSK	1	37	19.06	18.99	18.68	19.5	0
15	QPSK	1	74	19.07	19.00	18.73		
15	QPSK	36	0	19.18	19.11	18.84		
15	QPSK	36	20	19.22	19.06	18.88	19.5	0
15	QPSK	36	39	19.16	19.06	18.81		
15	QPSK	75	0	19.18	19.04	18.85		
15	16QAM	1	0	19.01	18.95	18.70		
15	16QAM	1	37	19.06	18.96	18.71	19.5	0
15	16QAM	1	74	19.17	18.98	18.72		
15	16QAM	36	0	19.17	19.11	18.86		
15	16QAM	36	20	19.24	19.05	18.89	19.5	0
15	16QAM	36	39	19.16	19.09	18.82		
15	16QAM	75	0	19.16	19.07	18.91		
15	64QAM	1	0	19.13	19.24	19.05		
15	64QAM	1	37	19.22	19.17	18.86	19.5	0
15	64QAM	1	74	19.25	19.28	18.96		
15	64QAM	36	0	19.19	19.13	18.86		
15	64QAM	36	20	19.23	19.06	18.89	19.5	0
15	64QAM	36	39	19.18	19.09	18.81		
15	64QAM	75	0	19.17	19.07	18.90		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.82	18.69	18.37		
10	QPSK	1	25	18.82	18.73	18.46	19.5	0
10	QPSK	1	49	18.82	18.71	18.54		
10	QPSK	25	0	18.90	18.80	18.49		
10	QPSK	25	12	18.84	18.73	18.53	19.5	0
10	QPSK	25	25	18.83	18.72	18.52		
10	QPSK	50	0	18.83	18.74	18.53		
10	16QAM	1	0	19.10	19.02	18.69		
10	16QAM	1	25	19.09	19.02	18.65	19.5	0
10	16QAM	1	49	19.04	19.07	18.76		
10	16QAM	25	0	18.92	18.84	18.52		
10	16QAM	25	12	18.90	18.79	18.58	19.5	0
10	16QAM	25	25	18.91	18.79	18.54		
10	16QAM	50	0	18.87	18.76	18.54		
10	64QAM	1	0	19.02	18.91	18.62		
10	64QAM	1	25	19.01	18.91	18.60	19.5	0
10	64QAM	1	49	19.10	18.99	18.67		
10	64QAM	25	0	18.91	18.81	18.51		
10	64QAM	25	12	18.85	18.75	18.58	19.5	0
10	64QAM	25	25	18.86	18.71	18.49		
10	64QAM	50	0	18.85	18.74	18.52		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.75	18.70	18.38		
5	QPSK	1	12	18.81	18.70	18.43	19.5	0
5	QPSK	1	24	18.85	18.68	18.45		
5	QPSK	12	0	18.85	18.73	18.46		
5	QPSK	12	7	18.93	18.79	18.52	19.5	0
5	QPSK	12	13	18.96	18.81	18.56		
5	QPSK	25	0	18.93	18.73	18.47		
5	16QAM	1	0	19.17	19.04	18.79		
5	16QAM	1	12	19.24	19.07	18.78	19.5	0
5	16QAM	1	24	19.22	19.05	18.85		
5	16QAM	12	0	18.67	18.76	18.45		
5	16QAM	12	7	18.63	18.83	18.57	19.5	0
5	16QAM	12	13	18.82	18.80	18.60		
5	16QAM	25	0	18.93	18.79	18.50		
5	64QAM	1	0	19.04	19.02	18.75		
5	64QAM	1	12	19.16	19.05	18.79	19.5	0
5	64QAM	1	24	19.19	19.01	18.77		
5	64QAM	12	0	18.84	18.76	18.44		
5	64QAM	12	7	18.92	18.78	18.55	19.5	0
5	64QAM	12	13	18.94	18.79	18.59		
5	64QAM	25	0	18.93	18.74	18.52		

Reduced Power Mode for Sensor On for ANT2

Band 7 (2600MHz Band)

Part 27-ENDC

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	19.57	19.67	19.56	20	0
20	QPSK	1	49	19.61	19.56	19.27		
20	QPSK	1	99	19.66	19.66	19.41		
20	QPSK	50	0	19.49	19.55	19.22	20	0
20	QPSK	50	24	19.54	19.41	19.25		
20	QPSK	50	50	19.47	19.41	19.17		
20	QPSK	100	0	19.49	19.55	19.26		
20	16QAM	1	0	19.38	19.43	19.18	20	0
20	16QAM	1	49	19.51	19.41	19.17		
20	16QAM	1	99	19.56	19.50	19.26		
20	16QAM	50	0	19.59	19.55	19.30	20	0
20	16QAM	50	24	19.57	19.42	19.24		
20	16QAM	50	50	19.48	19.39	19.19		
20	16QAM	100	0	19.55	19.38	19.26		
20	64QAM	1	0	19.40	19.46	19.26	20	0
20	64QAM	1	49	19.52	19.49	19.22		
20	64QAM	1	99	19.45	19.50	19.07		
20	64QAM	50	0	19.49	19.42	19.21	20	0
20	64QAM	50	24	19.54	19.39	19.24		
20	64QAM	50	50	19.48	19.41	19.15		
20	64QAM	100	0	19.56	19.38	19.23		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	19.36	19.49	19.41	20	0
15	QPSK	1	37	19.40	19.54	19.44		
15	QPSK	1	74	19.41	19.55	19.49		
15	QPSK	36	0	19.52	19.66	19.60	20	0
15	QPSK	36	20	19.56	19.61	19.64		
15	QPSK	36	39	19.50	19.61	19.57		
15	QPSK	75	0	19.52	19.59	19.61		
15	16QAM	1	0	19.45	19.44	19.40	20	0
15	16QAM	1	37	19.50	19.45	19.41		
15	16QAM	1	74	19.61	19.47	19.42		
15	16QAM	36	0	19.61	19.55	19.51	20	0
15	16QAM	36	20	19.58	19.39	19.44		
15	16QAM	36	39	19.50	19.43	19.37		
15	16QAM	75	0	19.50	19.41	19.46		
15	64QAM	1	0	19.47	19.58	19.60	20	0
15	64QAM	1	37	19.56	19.51	19.41		
15	64QAM	1	74	19.59	19.62	19.51		
15	64QAM	36	0	19.53	19.47	19.41	20	0
15	64QAM	36	20	19.57	19.40	19.44		
15	64QAM	36	39	19.52	19.43	19.36		
15	64QAM	75	0	19.51	19.41	19.45		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	19.58	19.45	19.55	20	0
10	QPSK	1	25	19.58	19.49	19.64		
10	QPSK	1	49	19.58	19.47	19.56		
10	QPSK	25	0	19.45	19.35	19.46	20	0
10	QPSK	25	12	19.39	19.28	19.50		
10	QPSK	25	25	19.38	19.27	19.49		
10	QPSK	50	0	19.38	19.29	19.50		
10	16QAM	1	0	19.54	19.51	19.60	20	0
10	16QAM	1	25	19.53	19.51	19.56		
10	16QAM	1	49	19.48	19.56	19.44		
10	16QAM	25	0	19.36	19.28	19.38	20	0
10	16QAM	25	12	19.24	19.13	19.34		
10	16QAM	25	25	19.25	19.13	19.30		
10	16QAM	50	0	19.21	19.10	19.30		
10	64QAM	1	0	19.36	19.25	19.38	20	0
10	64QAM	1	25	19.35	19.25	19.36		
10	64QAM	1	49	19.44	19.33	19.43		
10	64QAM	25	0	19.25	19.15	19.27	20	0
10	64QAM	25	12	19.19	19.09	19.34		
10	64QAM	25	25	19.20	19.05	19.25		
10	64QAM	50	0	19.19	19.08	19.28		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	19.29	19.24	19.34	20	0
5	QPSK	1	12	19.35	19.24	19.39		
5	QPSK	1	24	19.39	19.22	19.41		
5	QPSK	12	0	19.39	19.27	19.42	20	0
5	QPSK	12	7	19.47	19.33	19.48		
5	QPSK	12	13	19.50	19.35	19.52		
5	QPSK	25	0	19.47	19.27	19.43		
5	16QAM	1	0	19.37	19.24	19.54	20	0
5	16QAM	1	12	19.44	19.27	19.53		
5	16QAM	1	24	19.42	19.25	19.60		
5	16QAM	12	0	19.21	19.30	19.20	20	0
5	16QAM	12	7	19.17	19.37	19.32		
5	16QAM	12	13	19.36	19.34	19.35		
5	16QAM	25	0	19.47	19.33	19.25		
5	64QAM	1	0	19.24	19.22	19.50	20	0
5	64QAM	1	12	19.36	19.25	19.54		
5	64QAM	1	24	19.39	19.21	19.52		
5	64QAM	12	0	19.38	19.30	19.19	20	0
5	64QAM	12	7	19.46	19.32	19.30		
5	64QAM	12	13	19.48	19.33	19.34		
5	64QAM	25	0	19.47	19.28	19.27		

Reduced Power Mode for Hotspot On for ANT2

Band 5 (Celluar Band)
Part 22H(only on channel required)-ENDC

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				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	19.36	19.55	19.29	20	0
10	QPSK	1	25	19.25	19.27	19.22		
10	QPSK	1	49	19.24	19.28	19.28		
10	QPSK	25	0	19.36	19.43	19.20	20	0
10	QPSK	25	12	19.40	19.39	19.22		
10	QPSK	25	25	19.36	19.33	19.25		
10	QPSK	50	0	19.41	19.45	19.21		
10	16QAM	1	0	19.45	19.38	19.27	20	0
10	16QAM	1	25	19.32	19.32	19.24		
10	16QAM	1	49	19.37	19.30	19.21		
10	16QAM	25	0	19.18	19.08	19.07	20	0
10	16QAM	25	12	19.22	19.20	19.07		
10	16QAM	25	25	19.16	19.12	19.08		
10	16QAM	50	0	19.24	19.17	19.02		
10	64QAM	1	0	19.32	19.30	19.18	20	0
10	64QAM	1	25	19.23	19.20	19.10		
10	64QAM	1	49	19.29	19.19	19.12		
10	64QAM	25	0	19.11	19.04	19.08	20	0
10	64QAM	25	12	19.26	19.15	19.05		
10	64QAM	25	25	19.13	19.14	19.09		
10	64QAM	50	0	19.20	19.12	19.02		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	19.22	19.06	19.23	20	0
5	QPSK	1	12	19.13	19.04	19.14		
5	QPSK	1	24	19.16	19.06	19.09		
5	QPSK	12	0	19.26	19.08	19.18	20	0
5	QPSK	12	7	19.22	19.12	19.19		
5	QPSK	12	13	19.25	19.11	19.21		
5	QPSK	25	0	19.26	19.13	19.17		
5	16QAM	1	0	19.51	19.36	19.39	20	0
5	16QAM	1	12	19.44	19.35	19.45		
5	16QAM	1	24	19.52	19.42	19.47		
5	16QAM	12	0	19.23	19.11	19.19	20	0
5	16QAM	12	7	19.21	19.14	19.20		
5	16QAM	12	13	19.24	19.14	19.24		
5	16QAM	25	0	19.25	19.09	19.21		
5	64QAM	1	0	19.49	19.28	19.31	20	0
5	64QAM	1	12	19.35	19.23	19.34		
5	64QAM	1	24	19.46	19.34	19.37		
5	64QAM	12	0	19.23	19.07	19.18	20	0
5	64QAM	12	7	19.22	19.10	19.17		
5	64QAM	12	13	19.21	19.11	19.23		
5	64QAM	25	0	19.26	19.16	19.18		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	19.20	19.02	19.16	20	0
3	QPSK	1	8	19.19	19.06	19.20		
3	QPSK	1	14	19.18	19.05	19.13		
3	QPSK	8	0	19.23	19.06	19.19	20	0
3	QPSK	8	4	19.24	19.14	19.25		
3	QPSK	8	7	19.22	19.08	19.24		
3	QPSK	15	0	19.22	19.11	19.21		
3	16QAM	1	0	19.53	19.36	19.48	20	0
3	16QAM	1	8	19.54	19.41	19.51		
3	16QAM	1	14	19.47	19.41	19.47		
3	16QAM	8	0	19.31	19.13	19.22	20	0
3	16QAM	8	4	19.27	19.17	19.30		
3	16QAM	8	7	19.22	19.20	19.26		
3	16QAM	15	0	19.21	19.12	19.16		
3	64QAM	1	0	19.45	19.27	19.26	20	0
3	64QAM	1	8	19.44	19.33	19.47		
3	64QAM	1	14	19.40	19.32	19.35		
3	64QAM	8	0	19.24	19.11	19.16	20	0
3	64QAM	8	4	19.23	19.14	19.24		
3	64QAM	8	7	19.21	19.13	19.25		
3	64QAM	15	0	19.24	19.13	19.15		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.09	19.09	19.06	20	0
1.4	QPSK	1	3	19.15	19.20	19.07		
1.4	QPSK	1	5	19.07	19.16	19.06		
1.4	QPSK	3	0	19.10	19.09	19.04		
1.4	QPSK	3	1	19.14	19.19	19.07		
1.4	QPSK	3	3	19.10	19.12	19.05		
1.4	QPSK	6	0	19.17	19.02	19.13	20	0
1.4	16QAM	1	0	19.39	19.20	19.35	20	0
1.4	16QAM	1	3	19.50	19.29	19.42		
1.4	16QAM	1	5	19.38	19.25	19.38		
1.4	16QAM	3	0	19.20	19.01	19.11		
1.4	16QAM	3	1	19.23	19.06	19.13		
1.4	16QAM	3	3	19.13	19.01	19.08		
1.4	16QAM	6	0	19.25	19.10	19.18	20	0
1.4	64QAM	1	0	19.30	19.07	19.27	20	0
1.4	64QAM	1	3	19.32	19.18	19.26		
1.4	64QAM	1	5	19.27	19.13	19.26		
1.4	64QAM	3	0	19.19	19.01	19.12		
1.4	64QAM	3	1	19.25	19.13	19.17		
1.4	64QAM	3	3	19.19	19.06	19.15		
1.4	64QAM	6	0	19.16	19.06	19.09	20	0

Band 7 (2600MHz Band)
Part 27-ENDC

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	17.56	17.60	17.32	18	0
20	QPSK	1	49	17.49	17.57	17.30		
20	QPSK	1	99	17.52	17.47	17.39		
20	QPSK	50	0	17.58	17.59	17.26	18	0
20	QPSK	50	24	17.57	17.43	17.31		
20	QPSK	50	50	17.54	17.47	17.20		
20	QPSK	100	0	17.50	17.57	17.24		
20	16QAM	1	0	17.22	17.17	17.28	18	0
20	16QAM	1	49	17.30	17.17	17.34		
20	16QAM	1	99	17.18	17.29	17.33		
20	16QAM	50	0	17.56	17.46	17.26	18	0
20	16QAM	50	24	17.57	17.44	17.25		
20	16QAM	50	50	17.54	17.44	17.21		
20	16QAM	100	0	17.59	17.43	17.26		
20	64QAM	1	0	17.44	17.52	17.21	18	0
20	64QAM	1	49	17.55	17.42	17.15		
20	64QAM	1	99	17.44	17.53	17.16		
20	64QAM	50	0	17.55	17.45	17.26	18	0
20	64QAM	50	24	17.55	17.42	17.25		
20	64QAM	50	50	17.52	17.43	17.22		
20	64QAM	100	0	17.57	17.42	17.24		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.35	17.28	17.04	18	0
15	QPSK	1	37	17.40	17.34	17.08		
15	QPSK	1	74	17.44	17.34	17.09		
15	QPSK	36	0	17.57	17.50	17.21	18	0
15	QPSK	36	20	17.58	17.46	17.23		
15	QPSK	36	39	17.54	17.42	17.16		
15	QPSK	75	0	17.49	17.40	17.22		
15	16QAM	1	0	17.19	17.16	17.33	18	0
15	16QAM	1	37	17.29	17.15	17.30		
15	16QAM	1	74	17.38	17.26	17.31		
15	16QAM	36	0	17.53	17.48	17.21	18	0
15	16QAM	36	20	17.58	17.41	17.22		
15	16QAM	36	39	17.55	17.44	17.17		
15	16QAM	75	0	17.55	17.40	17.21		
15	64QAM	1	0	17.02	17.17	17.26	18	0
15	64QAM	1	37	17.20	17.04	17.11		
15	64QAM	1	74	17.07	17.12	17.16		
15	64QAM	36	0	17.56	17.47	17.23	18	0
15	64QAM	36	20	17.58	17.40	17.21		
15	64QAM	36	39	17.56	17.46	17.16		
15	64QAM	75	0	17.50	17.40	17.20		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.30	17.19	16.90	18	0
10	QPSK	1	25	17.33	17.28	16.93		
10	QPSK	1	49	17.35	17.23	17.05		
10	QPSK	25	0	17.39	17.34	17.05	18	0
10	QPSK	25	12	17.40	17.27	17.06		
10	QPSK	25	25	17.41	17.29	17.03		
10	QPSK	50	0	17.33	17.23	17.03		
10	16QAM	1	0	17.16	17.07	17.17	18	0
10	16QAM	1	25	17.18	17.08	17.17		
10	16QAM	1	49	17.14	17.18	17.30		
10	16QAM	25	0	17.42	17.31	17.03	18	0
10	16QAM	25	12	17.41	17.30	17.05		
10	16QAM	25	25	17.42	17.29	17.07		
10	16QAM	50	0	17.35	17.29	17.03		
10	64QAM	1	0	17.09	17.01	17.16	18	0
10	64QAM	1	25	17.12	17.01	17.12		
10	64QAM	1	49	17.21	17.07	17.17		
10	64QAM	25	0	17.44	17.32	17.04	18	0
10	64QAM	25	12	17.43	17.30	17.08		
10	64QAM	25	25	17.41	17.29	17.05		
10	64QAM	50	0	17.33	17.24	17.01		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.28	17.18	16.88	18	0
5	QPSK	1	12	17.31	17.25	16.92		
5	QPSK	1	24	17.36	17.19	16.96		
5	QPSK	12	0	17.30	17.23	16.96	18	0
5	QPSK	12	7	17.45	17.26	17.04		
5	QPSK	12	13	17.40	17.30	17.04		
5	QPSK	25	0	17.42	17.22	17.01		
5	16QAM	1	0	17.25	17.15	17.25	18	0
5	16QAM	1	12	17.27	17.17	17.26		
5	16QAM	1	24	17.33	17.15	17.29		
5	16QAM	12	0	17.36	17.27	17.25	18	0
5	16QAM	12	7	17.48	17.29	17.27		
5	16QAM	12	13	17.49	17.30	17.11		
5	16QAM	25	0	17.43	17.26	17.00		
5	64QAM	1	0	17.20	17.16	17.24	18	0
5	64QAM	1	12	17.29	17.16	17.27		
5	64QAM	1	24	17.29	17.12	17.33		
5	64QAM	12	0	17.35	17.26	17.05	18	0
5	64QAM	12	7	17.45	17.28	17.04		
5	64QAM	12	13	17.45	17.29	17.08		
5	64QAM	25	0	17.41	17.26	17.01		

Reduced Power Mode for Handheld On for ANT2

Band 7 (2600MHz Band)

Part 27-ENDC

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	21.61	21.71	21.60	22	0
20	QPSK	1	49	21.65	21.60	21.31		
20	QPSK	1	99	21.70	21.70	21.45		
20	QPSK	50	0	21.53	21.59	21.26	22	0
20	QPSK	50	24	21.58	21.45	21.29		
20	QPSK	50	50	21.51	21.45	21.21		
20	QPSK	100	0	21.53	21.59	21.30		
20	16QAM	1	0	21.42	21.47	21.22	22	0
20	16QAM	1	49	21.55	21.45	21.21		
20	16QAM	1	99	21.60	21.54	21.30		
20	16QAM	50	0	21.63	21.59	21.34	22	0
20	16QAM	50	24	21.61	21.46	21.28		
20	16QAM	50	50	21.52	21.43	21.23		
20	16QAM	100	0	21.59	21.42	21.30		
20	64QAM	1	0	21.44	21.50	21.30	22	0
20	64QAM	1	49	21.56	21.53	21.26		
20	64QAM	1	99	21.49	21.54	21.11		
20	64QAM	50	0	20.57	20.50	20.29	21	1
20	64QAM	50	24	20.62	20.47	20.32		
20	64QAM	50	50	20.56	20.49	20.23		
20	64QAM	100	0	20.64	20.46	20.31		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.61	21.54	21.66	22	0
15	QPSK	1	37	21.65	21.65	21.69		
15	QPSK	1	74	21.66	21.66	21.54		
15	QPSK	36	0	21.56	21.70	21.64	22	0
15	QPSK	36	20	21.60	21.65	21.68		
15	QPSK	36	39	21.54	21.65	21.61		
15	QPSK	75	0	21.56	21.63	21.65		
15	16QAM	1	0	21.49	21.48	21.44	22	0
15	16QAM	1	37	21.54	21.49	21.45		
15	16QAM	1	74	21.65	21.51	21.46		
15	16QAM	36	0	21.65	21.59	21.55	22	0
15	16QAM	36	20	21.62	21.43	21.48		
15	16QAM	36	39	21.54	21.47	21.41		
15	16QAM	75	0	21.54	21.45	21.50		
15	64QAM	1	0	21.51	21.62	21.64	22	0
15	64QAM	1	37	21.60	21.55	21.45		
15	64QAM	1	74	21.63	21.66	21.55		
15	64QAM	36	0	20.61	20.55	20.49	21	1
15	64QAM	36	20	20.65	20.48	20.52		
15	64QAM	36	39	20.60	20.51	20.44		
15	64QAM	75	0	20.59	20.49	20.53		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.62	21.49	21.59	22	0
10	QPSK	1	25	21.62	21.53	21.68		
10	QPSK	1	49	21.62	21.51	21.60		
10	QPSK	25	0	21.49	21.39	21.50	22	0
10	QPSK	25	12	21.43	21.32	21.54		
10	QPSK	25	25	21.42	21.31	21.53		
10	QPSK	50	0	21.42	21.33	21.54		
10	16QAM	1	0	21.58	21.55	21.64	22	0
10	16QAM	1	25	21.57	21.55	21.60		
10	16QAM	1	49	21.52	21.60	21.48		
10	16QAM	25	0	21.61	21.53	21.63	22	0
10	16QAM	25	12	21.49	21.38	21.59		
10	16QAM	25	25	21.50	21.38	21.55		
10	16QAM	50	0	21.46	21.35	21.55		
10	64QAM	1	0	21.61	21.50	21.63	22	0
10	64QAM	1	25	21.60	21.50	21.61		
10	64QAM	1	49	21.69	21.58	21.68		
10	64QAM	25	0	20.33	20.23	20.35	21	1
10	64QAM	25	12	20.27	20.17	20.42		
10	64QAM	25	25	20.28	20.13	20.33		
10	64QAM	50	0	20.27	20.16	20.36		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	21.53	21.69	21.58	22	0
5	QPSK	1	12	21.59	21.69	21.63		
5	QPSK	1	24	21.63	21.67	21.65		
5	QPSK	12	0	21.63	21.51	21.66	22	0
5	QPSK	12	7	21.55	21.57	21.65		
5	QPSK	12	13	21.55	21.59	21.65		
5	QPSK	25	0	21.55	21.51	21.67		
5	16QAM	1	0	21.61	21.48	21.55	22	0
5	16QAM	1	12	21.68	21.51	21.66		
5	16QAM	1	24	21.66	21.49	21.66		
5	16QAM	12	0	21.45	21.54	21.44	22	0
5	16QAM	12	7	21.41	21.61	21.56		
5	16QAM	12	13	21.60	21.58	21.59		
5	16QAM	25	0	21.56	21.57	21.49		
5	64QAM	1	0	21.48	21.46	21.65	22	0
5	64QAM	1	12	21.60	21.49	21.65		
5	64QAM	1	24	21.63	21.45	21.54		
5	64QAM	12	0	20.46	20.38	20.27	21	1
5	64QAM	12	7	20.54	20.40	20.38		
5	64QAM	12	13	20.56	20.41	20.42		
5	64QAM	25	0	20.55	20.36	20.35		

UL CA

Full Power Ant 1

Tune up Power (dBm)
24

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.45	24
21100	20902	QPSK	1	0	0	0	2	0	22.63	24
21350	21152	QPSK	1	0	0	0	2	0	22.41	24
20850	21048	16QAM	1	0	0	0	1	0	21.67	23
21100	20902	16QAM	1	0	0	0	2	0	21.54	23
21350	21152	16QAM	1	0	0	0	2	0	21.66	23
20850	21048	64QAM	1	0	0	0	1	0	20.89	22
21100	20902	64QAM	1	0	0	0	2	0	20.56	22
21350	21152	64QAM	1	0	0	0	2	0	20.61	22

Sensor on Ant 1

Tune up Power (dBm)

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	50	0	0	0	1	0	17.56	18.5
21100	20902	QPSK	50	0	0	0	1	0	17.52	18.5
21350	21152	QPSK	50	0	0	0	1	0	17.6	18.5

Hotspot on Ant 1

Tune up Power (dBm)

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	50	0	0	0	1	0	15.45	16.5
21100	20902	QPSK	50	0	0	0	1	0	15.65	16.5
21350	21152	QPSK	50	0	0	0	1	0	15.55	16.5

Handheld on Ant 1

Tune up Power (dBm)

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	18.39	20
21100	20902	QPSK	1	0	0	0	1	0	18.3	20
21350	21152	QPSK	1	0	0	0	1	0	18.25	20

2CA DL

Configure	CA List	PCC								DL Antenna Configuration	SCC				DL Antenna Configuration	Power	
		LTE Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset		LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel		With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	CA_2A-4A	Band 2	1	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	22.34	22.74
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.41	22.79
	CA_2A-5A	Band 2	1	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		22.65	22.74
		Band 5	1	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.14	22.48
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		21.87	21.89
	CA_2A-7A	Band 2	1	20M	1880	18900	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.25	22.74
		Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900		22.68	22.83
	CA_4A-5A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.47	22.79
		Band 5	1	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	22.09	22.48
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	22.00	21.89
	CA_4A-7A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.57	22.79
		Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.49	22.83
	CA_5A-7A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.18	22.48
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	21.92	21.89
		Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.54	22.83
	CA_5A-38A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	22.11	22.48
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	22.06	21.89
		Band 38	1	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.56	22.73
	CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.21	22.48
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.04	21.89
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.63	22.64
	CA_26A-41A	Band 26	1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.19	22.53
		Band 26	2	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.01	21.99
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.65	22.64
Intra-Band	CA_7B	Band 7	1	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2664.3	3193	4x4MIMO	22.67	22.83
	CA_38C	Band 38	1	20M	2585.1	37901	QPSK	1	0	4x4MIMO	Band 38	20M	2604.9	38099	4x4MIMO	22.65	22.83
	CA_4A-4A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.61	22.79
	CA_7A-7A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.53	22.83
	CA_41A-41A	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	22.80	22.64
	CA_66B	Band 66	1	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.12	22.35
	CA_66C	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.20	22.35

3CA DL

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

Configure		PCC									SCC1					SCC2					Power	
		LTE Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	CA_7A-66A-66A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66686		Band 66	5M	2197.5	67311		22.31	22.83
		Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 7	20M	2655	3100	4x4MIMO	22.1	22.35
	CA_26A-41C	Band 26	1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.16	22.53
		Band 26	2	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	21.72	21.99
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 26	15M	876.5	8865		22.63	22.64

4CA DL

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

Configure		PCC									SCC1					SCC2					SCC3					Power	
		LTE Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	CA_7C-66A-66A	Band 7	1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		22.56	22.83
		Band 66	1	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.02	22.35

Full Power Mode for ANT2

n5 (only SCS15KHz has 5M BW)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	22.87	22.74	22.65	24.0	0.0
20	PI/2 BPSK	1	53	22.84	22.73	22.40		
20	PI/2 BPSK	1	104	22.61	22.50	22.17		
20	PI/2 BPSK	50	0	22.44	22.33	22.00	24.0	0.0
20	PI/2 BPSK	50	28	22.79	22.68	22.35		
20	PI/2 BPSK	50	56	22.14	22.03	21.70		
20	PI/2 BPSK	100	0	22.20	22.09	21.76	23.5	0.5
20	QPSK	1	1	22.85	22.98	22.41	24.0	0.0
20	QPSK	1	53	22.67	22.56	22.23		
20	QPSK	1	104	22.41	22.30	21.97		
20	QPSK	50	0	21.65	21.54	21.21	24.0	0.0
20	QPSK	50	28	22.58	22.69	22.25		
20	QPSK	50	56	21.45	21.34	21.01		
20	QPSK	100	0	21.52	21.63	21.19	23.0	1.0
20	16QAM	1	1	21.83	21.72	21.39	23.0	1.0
20	64QAM	1	1	20.34	20.23	19.90	21.5	2.5
20	256QAM	1	1	18.14	18.03	17.70	19.5	4.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.60	22.71	22.38	24.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.84	22.95	22.62	24.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.66	22.77	22.44	24.0	0.0

n7

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.21	23.18	23.00	24.0	0.0
20	PI/2 BPSK	1	53	23.24	23.21	23.03		
20	PI/2 BPSK	1	104	23.26	23.23	23.05		
20	PI/2 BPSK	50	0	22.69	22.66	22.48	24.0	0.0
20	PI/2 BPSK	50	28	23.24	23.21	23.03		
20	PI/2 BPSK	50	56	22.75	22.72	22.54		
20	PI/2 BPSK	100	0	22.84	22.81	22.63	23.5	0.5
20	QPSK	1	1	23.27	23.30	23.06	24.0	0.0
20	QPSK	1	53	23.23	23.20	23.02		
20	QPSK	1	104	23.12	23.09	22.91		
20	QPSK	50	0	22.23	22.26	22.05	24.0	0.0
20	QPSK	50	28	23.22	23.24	23.09		
20	QPSK	50	56	22.27	22.24	22.06		
20	QPSK	100	0	22.39	22.42	22.21	23.0	1.0
20	16QAM	1	1	22.61	22.58	22.40	23.0	1.0
20	64QAM	1	1	21.12	21.09	20.91	21.5	2.5
20	256QAM	1	1	19.34	19.23	19.40	19.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.31	23.28	23.10	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.44	23.41	23.23	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.42	23.39	23.21	24.0	0.0

Full Power Mode for ANT1

n7								
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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.65	22.55	22.24	24.0	0.0
20	PI/2 BPSK	1	53	22.64	22.54	22.23		
20	PI/2 BPSK	1	104	22.51	22.41	22.10		
20	PI/2 BPSK	50	0	22.04	21.94	21.63	24.0	0.0
20	PI/2 BPSK	50	28	22.54	22.44	22.13		
20	PI/2 BPSK	50	56	22.08	21.98	21.67		
20	PI/2 BPSK	100	0	22.22	22.12	21.81	23.5	0.5
20	QPSK	1	1	22.61	22.71	22.30	24.0	0.0
20	QPSK	1	53	22.66	22.56	22.25		
20	QPSK	1	104	22.67	22.57	22.26		
20	QPSK	50	0	21.65	21.55	21.24	24.0	0.0
20	QPSK	50	28	22.55	22.65	22.24		
20	QPSK	50	56	21.61	21.51	21.20		
20	QPSK	100	0	21.70	21.80	21.39	23.0	1.0
20	16QAM	1	1	21.68	21.58	21.27	23.0	1.0
20	64QAM	1	1	20.41	20.31	20.00	21.5	2.5
20	256QAM	1	1	18.90	18.80	18.49	19.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.68	22.58	22.27	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.83	22.73	22.42	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.81	22.71	22.40	24.0	0.0

n66 (only SCS15KHz has 5M BW)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	22.77	22.84	22.75	24.0	0.0
20	PI/2 BPSK	1	53	22.11	22.18	22.09		
20	PI/2 BPSK	1	104	22.69	22.76	22.67		
20	PI/2 BPSK	50	0	21.83	21.90	21.81	24.0	0.0
20	PI/2 BPSK	50	28	22.13	22.20	22.11		
20	PI/2 BPSK	50	56	21.76	21.83	21.74		
20	PI/2 BPSK	100	0	21.78	21.85	21.76	23.5	0.5
20	QPSK	1	1	22.85	22.92	22.83	24.0	0.0
20	QPSK	1	53	22.21	22.28	22.19		
20	QPSK	1	104	22.80	22.87	22.78		
20	QPSK	50	0	21.38	21.45	21.36	24.0	0.0
20	QPSK	50	28	22.20	22.27	22.18		
20	QPSK	50	56	21.34	21.41	21.32		
20	QPSK	100	0	21.27	21.34	21.25	23.0	1.0
20	16QAM	1	1	21.62	21.69	21.60	23.0	1.0
20	64QAM	1	1	20.48	20.55	20.46	21.5	2.5
20	256QAM	1	1	18.15	18.22	18.13	19.5	4.5
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.45	22.52	22.43	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.69	22.76	22.67	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.36	22.43	22.34	24.0	0.0

Reduced Power Mode for Receiver On for ANT2

n5 (only SCS15KHz has 5M BW)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	19.69	19.75	19.70	21.0	0.0
20	PI/2 BPSK	1	53	19.33	19.42	19.34		
20	PI/2 BPSK	1	104	19.07	19.17	19.09		
20	PI/2 BPSK	50	0	19.41	19.50	19.42	21.0	0.0
20	PI/2 BPSK	50	28	19.24	19.37	19.34		
20	PI/2 BPSK	50	56	19.19	19.25	19.25		
20	PI/2 BPSK	100	0	19.23	19.38	19.27	21.0	0.0
20	QPSK	1	1	19.57	19.77	19.58	21.0	0.0
20	QPSK	1	53	19.35	19.45	19.36		
20	QPSK	1	104	19.01	19.15	19.04		
20	QPSK	50	0	19.39	19.51	19.41	21.0	0.0
20	QPSK	50	28	19.31	19.64	19.35		
20	QPSK	50	56	19.06	19.20	19.11		
20	QPSK	100	0	19.28	19.36	19.31	21.0	0.0
20	16QAM	1	1	19.40	19.52	19.47	21.0	0.0
20	64QAM	1	1	19.44	19.56	19.49	21.0	0.0
20	256QAM	1	1	17.89	17.95	17.81	19.5	1.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	19.51	19.49	19.40	21.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	19.50	19.64	19.55	21.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	19.55	19.53	19.41	21.0	0.0

n7

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.73	17.81	17.70	18.5	0.0
20	PI/2 BPSK	1	53	17.52	17.53	17.54		
20	PI/2 BPSK	1	104	17.50	17.52	17.52		
20	PI/2 BPSK	50	0	17.53	17.54	17.48	18.5	0.0
20	PI/2 BPSK	50	28	17.41	17.50	17.34		
20	PI/2 BPSK	50	56	17.53	17.54	17.48		
20	PI/2 BPSK	100	0	17.67	17.70	17.61	18.5	0.0
20	QPSK	1	1	17.91	17.97	17.89	18.5	0.0
20	QPSK	1	53	17.51	17.52	17.44		
20	QPSK	1	104	17.44	17.51	17.44		
20	QPSK	50	0	17.50	17.55	17.50	18.5	0.0
20	QPSK	50	28	17.50	17.82	17.51		
20	QPSK	50	56	17.52	17.53	17.48		
20	QPSK	100	0	17.72	17.73	17.70	18.5	0.0
20	16QAM	1	1	17.42	17.43	17.36	18.5	0.0
20	64QAM	1	1	17.76	17.80	17.72	18.5	0.0
20	256QAM	1	1	17.88	17.92	17.64	18.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.55	17.86	17.73	18.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.68	17.68	17.82	18.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.81	17.81	17.83	18.5	0.0

Reduced Power Mode for Sensor On for ANT2

n5 (only SCS15KHz has 5M BW) Sensor on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	21.37	21.38	21.33	22.5	0.0
20	PI/2 BPSK	1	53	21.06	21.09	21.00		
20	PI/2 BPSK	1	104	20.79	20.83	20.73		
20	PI/2 BPSK	50	0	21.13	21.13	21.15	22.5	0.0
20	PI/2 BPSK	50	28	21.02	21.05	20.96		
20	PI/2 BPSK	50	56	20.90	20.92	20.86		
20	PI/2 BPSK	100	0	21.04	21.06	20.97	22.5	0.0
20	QPSK	1	1	21.44	21.47	21.45	22.5	0.0
20	QPSK	1	53	21.22	21.19	21.15		
20	QPSK	1	104	20.85	20.84	20.87		
20	QPSK	50	0	21.17	21.18	21.10	22.5	0.0
20	QPSK	50	28	21.19	21.39	21.21		
20	QPSK	50	56	20.94	20.94	20.93		
20	QPSK	100	0	21.01	21.07	20.97	22.0	0.0
20	16QAM	1	1	21.38	21.37	21.31	22.0	0.0
20	64QAM	1	1	20.18	20.23	20.14	22.5	1.0
20	256QAM	1	1	18.06	18.04	17.99	19.5	3.0
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	21.37	21.30	21.44	22.5	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	21.40	21.36	21.39	22.5	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	21.34	21.38	21.42	22.5	0.0

n7 Sensor on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	18.02	18.18	17.99	19.0	0.0
20	PI/2 BPSK	1	53	17.85	17.89	17.89		
20	PI/2 BPSK	1	104	17.87	17.89	17.85		
20	PI/2 BPSK	50	0	17.82	17.90	17.83	19.0	0.0
20	PI/2 BPSK	50	28	17.77	17.80	17.70		
20	PI/2 BPSK	50	56	17.85	17.86	17.81		
20	PI/2 BPSK	100	0	18.00	18.04	17.93	19.0	0.0
20	QPSK	1	1	18.22	18.34	18.21	19.0	0.0
20	QPSK	1	53	17.84	17.89	17.76		
20	QPSK	1	104	17.78	17.88	17.82		
20	QPSK	50	0	17.86	17.87	17.82	19.0	0.0
20	QPSK	50	28	18.18	18.25	18.23		
20	QPSK	50	56	17.88	17.83	17.81		
20	QPSK	100	0	18.08	18.10	18.04	19.0	0.0
20	16QAM	1	1	17.80	17.73	17.70	19.0	0.0
20	64QAM	1	1	18.01	17.98	18.09	19.0	0.0
20	256QAM	1	1	18.11	18.22	17.89	19.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.78	17.73	17.85	19.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.74	17.82	17.93	19.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.92	17.99	18.03	19.0	0.0

Reduced Power Mode for Hotspot On for ANT2

n5 (only SCS15KHz has 5M BW) Hotspot on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	20.81	20.87	20.79	22.0	0.0
20	PI/2 BPSK	1	53	20.57	20.62	20.51		
20	PI/2 BPSK	1	104	20.31	20.33	20.28		
20	PI/2 BPSK	50	0	20.52	20.59	20.54	22.0	0.0
20	PI/2 BPSK	50	28	20.58	20.59	20.60		
20	PI/2 BPSK	50	56	20.42	20.42	20.36		
20	PI/2 BPSK	100	0	20.48	20.53	20.42	23.5	0.0
20	QPSK	1	1	20.93	20.94	20.89	22.0	0.0
20	QPSK	1	53	20.66	20.65	20.68		
20	QPSK	1	104	20.32	20.37	20.33		
20	QPSK	50	0	20.65	20.66	20.66	22.0	0.0
20	QPSK	50	28	20.79	20.85	20.82		
20	QPSK	50	56	20.47	20.47	20.44		
20	QPSK	100	0	20.51	20.79	20.54	23.0	0.0
20	16QAM	1	1	20.87	20.89	20.82	23.0	0.0
20	64QAM	1	1	19.60	19.73	19.76	21.5	0.5
20	256QAM	1	1	17.98	17.96	17.93	19.5	2.5
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	20.72	20.68	20.71	22.0	0.0
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	20.66	20.63	20.53	22.0	0.0
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	20.70	20.75	20.68	22.0	0.0

n7 Hotspot on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	15.74	15.96	15.88	17.0	0.0
20	PI/2 BPSK	1	53	15.70	15.94	15.74		
20	PI/2 BPSK	1	104	15.74	15.97	15.82		
20	PI/2 BPSK	50	0	15.69	15.92	15.91	17.0	0.0
20	PI/2 BPSK	50	28	15.71	15.89	15.66		
20	PI/2 BPSK	50	56	15.73	15.93	15.78		
20	PI/2 BPSK	100	0	15.82	16.06	15.94	17.0	0.0
20	QPSK	1	1	16.11	16.12	16.08	17.0	0.0
20	QPSK	1	53	15.65	15.86	15.78		
20	QPSK	1	104	15.71	15.89	15.81		
20	QPSK	50	0	15.83	15.98	15.87	17.0	0.0
20	QPSK	50	28	15.98	16.08	16.01		
20	QPSK	50	56	15.75	15.91	15.82		
20	QPSK	100	0	15.92	16.10	16.01	17.0	0.0
20	16QAM	1	1	15.58	15.78	15.66	17.0	0.0
20	64QAM	1	1	16.02	16.03	15.88	17.0	0.0
20	256QAM	1	1	16.01	16.08	16.03	17.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.92	16.01	15.98	17.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.97	15.88	16.03	17.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.90	15.96	15.89	17.0	0.0

Reduced Power Mode for Handheld On for ANT2

n7 Handheld on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.90	21.82	21.80	23.0	0.0
20	PI/2 BPSK	1	53	21.98	21.93	21.80		
20	PI/2 BPSK	1	104	21.96	21.96	21.75		
20	PI/2 BPSK	50	0	21.91	21.89	21.68	23.0	0.0
20	PI/2 BPSK	50	28	21.95	21.80	21.71		
20	PI/2 BPSK	50	56	21.97	21.88	21.61		
20	PI/2 BPSK	100	0	22.11	21.98	21.77	23.0	0.0
20	QPSK	1	1	22.06	22.16	22.10	23.0	0.0
20	QPSK	1	53	22.04	22.00	21.69		
20	QPSK	1	104	22.06	21.96	21.68		
20	QPSK	50	0	21.94	21.83	21.63	23.0	0.0
20	QPSK	50	28	22.05	22.14	22.03		
20	QPSK	50	56	22.00	21.93	21.67		
20	QPSK	100	0	22.13	21.98	21.81	23.0	0.0
20	16QAM	1	1	21.71	21.82	21.62	23.0	0.0
20	64QAM	1	1	20.69	20.69	20.50	21.5	1.5
20	256QAM	1	1	19.08	19.11	18.80	19.5	3.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.13	22.10	21.89	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.03	22.07	21.87	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	21.93	22.11	22.10	23.0	0.0

Reduced Power Mode for Sensor On for ANT1

n7 Sensor on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	12.62	12.65	12.50	14.0	0.0
20	PI/2 BPSK	1	53	12.55	12.67	12.40		
20	PI/2 BPSK	1	104	12.52	12.64	12.37		
20	PI/2 BPSK	50	0	12.56	12.70	12.41	14.0	0.0
20	PI/2 BPSK	50	28	12.60	12.63	12.39		
20	PI/2 BPSK	50	56	12.57	12.66	12.36		
20	PI/2 BPSK	100	0	12.72	12.78	12.61	14.0	0.0
20	QPSK	1	1	12.84	12.87	12.80	14.0	0.0
20	QPSK	1	53	12.66	12.73	12.38		
20	QPSK	1	104	12.65	12.68	12.39		
20	QPSK	50	0	12.61	12.64	12.45	14.0	0.0
20	QPSK	50	28	12.72	12.81	12.66		
20	QPSK	50	56	12.68	12.67	12.38		
20	QPSK	100	0	12.82	12.80	12.55	14.0	0.0
20	16QAM	1	1	12.69	12.57	12.29	14.0	0.0
20	64QAM	1	1	12.83	12.78	12.73	14.0	0.0
20	256QAM	1	1	12.72	12.63	12.76	14.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	12.67	12.67	12.48	14.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	12.54	12.62	12.54	14.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	12.81	12.72	12.52	14.0	0.0

n66 (only SCS15KHz has 5M BW) Sensor on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	15.56	15.51	15.48	16.5	0.0
20	PI/2 BPSK	1	53	14.88	14.91	14.90		
20	PI/2 BPSK	1	104	15.52	15.43	15.41		
20	PI/2 BPSK	50	0	15.13	15.16	15.11	16.5	0.0
20	PI/2 BPSK	50	28	14.92	14.93	14.81		
20	PI/2 BPSK	50	56	15.09	15.12	15.01		
20	PI/2 BPSK	100	0	15.09	15.10	15.00	16.5	0.0
20	QPSK	1	1	15.48	15.58	15.50	16.5	0.0
20	QPSK	1	53	14.94	14.95	14.83		
20	QPSK	1	104	15.57	15.46	15.38		
20	QPSK	50	0	15.22	15.08	15.08	16.5	0.0
20	QPSK	50	28	15.34	15.48	15.37		
20	QPSK	50	56	15.14	15.10	14.97		
20	QPSK	100	0	15.16	15.35	14.97	16.5	0.0
20	16QAM	1	1	15.37	15.37	15.47	16.5	0.0
20	64QAM	1	1	15.28	15.30	15.39	16.5	0.0
20	256QAM	1	1	15.33	15.39	15.27	16.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	15.26	15.17	15.18	16.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	15.43	15.47	15.30	16.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	15.13	15.16	15.18	16.5	0.0

Reduced Power Mode for Hotspot On for ANT1

n7 Hotspot on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	10.24	10.17	10.04	11.5	0.0
20	PI/2 BPSK	1	53	10.20	10.15	9.89		
20	PI/2 BPSK	1	104	10.18	10.22	9.87		
20	PI/2 BPSK	50	0	10.24	10.18	10.03	11.5	0.0
20	PI/2 BPSK	50	28	10.19	10.15	9.91		
20	PI/2 BPSK	50	56	10.16	10.18	9.88		
20	PI/2 BPSK	100	0	10.35	10.33	10.06	11.5	0.0
20	QPSK	1	1	10.42	10.50	10.39	11.5	0.0
20	QPSK	1	53	10.36	10.20	9.95		
20	QPSK	1	104	10.28	10.18	9.88		
20	QPSK	50	0	10.23	10.20	9.91	11.5	0.0
20	QPSK	50	28	10.35	10.38	10.34		
20	QPSK	50	56	10.23	10.13	9.93		
20	QPSK	100	0	10.38	10.36	10.04	11.5	0.0
20	16QAM	1	1	10.10	10.29	10.13	11.5	0.0
20	64QAM	1	1	10.31	10.26	10.14	11.5	0.0
20	256QAM	1	1	10.33	10.45	10.27	11.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	10.21	10.20	9.97	11.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	10.32	10.31	10.09	11.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	10.29	10.39	10.11	11.5	0.0

n66 (only SCS15KHz has 5M BW) Hotspot on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	13.46	13.48	13.33	14.5	0.0
20	PI/2 BPSK	1	53	12.83	12.81	12.73		
20	PI/2 BPSK	1	104	13.30	13.40	13.37		
20	PI/2 BPSK	50	0	13.10	13.09	13.03	14.5	0.0
20	PI/2 BPSK	50	28	12.93	12.80	12.82		
20	PI/2 BPSK	50	56	13.08	13.00	12.93		
20	PI/2 BPSK	100	0	13.07	13.01	13.02	14.5	0.0
20	QPSK	1	1	13.37	13.50	13.42	14.5	0.0
20	QPSK	1	53	12.91	12.83	12.75		
20	QPSK	1	104	13.46	13.34	13.36		
20	QPSK	50	0	13.15	13.08	13.01	14.5	0.0
20	QPSK	50	28	13.32	13.36	13.24		
20	QPSK	50	56	13.03	12.99	13.01		
20	QPSK	100	0	13.13	13.00	13.02	14.5	0.0
20	16QAM	1	1	13.31	13.39	13.18	14.5	0.0
20	64QAM	1	1	13.10	13.36	13.40	14.5	0.0
20	256QAM	1	1	13.21	13.27	13.28	14.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	13.26	13.18	13.22	14.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	13.43	13.32	13.44	14.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	13.04	12.96	13.01	14.5	0.0

Reduced Power Mode for Handheld On for ANT1

n7 Handheld on

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				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.79	16.82	16.74	18.0	0.0
20	PI/2 BPSK	1	53	16.88	16.89	16.70		
20	PI/2 BPSK	1	104	16.83	16.84	16.74		
20	PI/2 BPSK	50	0	16.87	16.84	16.59	18.0	0.0
20	PI/2 BPSK	50	28	16.88	16.85	16.58		
20	PI/2 BPSK	50	56	16.83	16.80	16.48		
20	PI/2 BPSK	100	0	17.03	17.01	16.64	18.0	0.0
20	QPSK	1	1	17.06	17.13	17.01	18.0	0.0
20	QPSK	1	53	16.91	16.94	16.48		
20	QPSK	1	104	16.88	16.84	16.49		
20	QPSK	50	0	16.83	16.85	16.54	18.0	0.0
20	QPSK	50	28	16.90	16.97	16.86		
20	QPSK	50	56	16.83	16.81	16.55		
20	QPSK	100	0	17.01	17.02	16.71	18.0	0.0
20	16QAM	1	1	16.99	17.03	16.27	18.0	0.0
20	64QAM	1	1	17.01	16.84	16.95	18.0	0.0
20	256QAM	1	1	16.89	16.97	16.89	18.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	16.87	16.80	16.49	18.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	16.99	17.03	17.00	18.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.01	17.08	16.64	18.0	0.0

n66 (only SCS15KHz has 5M BW) Handheld on

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	18.38	18.43	18.33	19.5	0.0
20	PI/2 BPSK	1	53	17.64	17.69	17.59		
20	PI/2 BPSK	1	104	18.33	18.25	18.18		
20	PI/2 BPSK	50	0	17.88	18.00	17.88	19.5	0.0
20	PI/2 BPSK	50	28	17.73	17.75	17.62		
20	PI/2 BPSK	50	56	17.93	17.90	17.84		
20	PI/2 BPSK	100	0	17.94	17.89	17.83	19.5	0.0
20	QPSK	1	1	18.41	18.52	18.38	19.5	0.0
20	QPSK	1	53	17.66	17.78	17.66		
20	QPSK	1	104	18.38	18.34	18.17		
20	QPSK	50	0	17.85	18.01	17.87	19.5	0.0
20	QPSK	50	28	18.42	18.46	18.40		
20	QPSK	50	56	17.95	17.88	17.85		
20	QPSK	100	0	17.88	18.17	17.73	19.5	1.0
20	16QAM	1	1	18.47	18.11	18.42	19.5	1.0
20	64QAM	1	1	18.46	18.46	18.50	19.5	0.0
20	256QAM	1	1	18.32	18.16	18.44	19.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	18.33	18.13	18.22	19.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	18.40	18.35	18.26	19.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	18.18	18.18	18.11	19.5	0.0

2.4GHz WLAN	Ant 1+2 Full					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.35	23.00	100.00
		6	2437	22.27	23.00	
		11	2462	21.84	23.00	
	802.11g 6Mbps	1	2412	21.45	22.00	98.28
		6	2437	21.36	22.00	
		11	2462	21.26	22.00	
	802.11n-HT20 MCS0	1	2412	21.09	22.00	98.15
		6	2437	21.21	22.00	
		11	2462	21.15	22.00	

2.4GHz WLAN	Ant 1+2 Simultaneous Head					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.63	21.00	100.00
		6	2437	19.97	21.00	
		11	2462	19.97	21.00	
	802.11g 6Mbps	1	2412	Not Required	20.00	98.28
		6	2437		20.00	
		11	2462		20.00	
	802.11n-HT20 MCS0	1	2412		20.00	98.15
		6	2437		20.00	
		11	2462		20.00	

2.4GHz WLAN	Ant 1+2 Simultaneous Sensor/Hotspot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.08	18.50	100.00
		6	2437	17.21	18.50	
		11	2462	17.04	18.50	
	802.11g 6Mbps	1	2412	Not Required	17.50	98.28
		6	2437		17.50	
		11	2462		17.50	
	802.11n-HT20 MCS0	1	2412		17.50	98.15
		6	2437		17.50	
		11	2462		17.50	

5GHz WLAN	Ant 1+2 Standalone（Head/Body Worn/Handheld）					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.45	19.00	98.28
		40	5200	20.97	21.50	
		44	5220	20.95	21.50	
		48	5240	20.89	21.50	
	802.11n-HT20 MCS0	36	5180	19.21	20.00	98.15
		40	5200	20.80	21.00	
		44	5220	20.74	21.00	
		48	5240	20.76	21.00	
	802.11n-HT40 MCS0	38	5190	16.28	16.50	96.32
		46	5230	19.80	20.00	
	802.11ac-VHT20 MCS0	36	5180	20.75	21.00	97.79
		40	5200	20.78	21.00	
		44	5220	20.75	21.00	
		48	5240	20.73	21.00	
	802.11ac-VHT40 MCS0	38	5190	19.72	20.00	96.32
		46	5230	19.69	20.00	
	802.11ac-VHT80 MCS0	42	5210	13.57	14.00	93.06

5GHz WLAN	Ant 1+2 Standalone Sensor/Hotspot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.16	15.00	98.28
		40	5200	14.15	15.00	
		44	5220	14.50	15.00	
		48	5240	14.36	15.00	
	802.11n-HT20 MCS0	36	5180	Not Required	15.00	98.15
		40	5200		15.00	
		44	5220		15.00	
		48	5240		15.00	
	802.11n-HT40 MCS0	38	5190		14.50	96.32
		46	5230		14.50	
	802.11ac-VHT20 MCS0	36	5180		15.00	97.79
		40	5200		15.00	
		44	5220		15.00	
		48	5240		15.00	
	802.11ac-VHT40 MCS0	38	5190		14.50	96.32
		46	5230		14.50	
	802.11ac-VHT80 MCS0	42	5210		14.00	93.06

5GHz WLAN	Ant 1+2 Simultaneous Sensor/Hotspot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	8.83	10.00	98.28
		40	5200	8.82	10.00	
		44	5220	9.11	10.00	
		48	5240	8.93	10.00	
	802.11n-HT20 MCS0	36	5180	Not Required	10.00	98.15
		40	5200		10.00	
		44	5220		10.00	
		48	5240		10.00	
	802.11n-HT40 MCS0	38	5190		9.50	96.32
		46	5230		9.50	
	802.11ac-VHT20 MCS0	36	5180		10.00	97.79
		40	5200		10.00	
		44	5220		10.00	
		48	5240		10.00	
	802.11ac-VHT40 MCS0	38	5190		9.50	96.32
		46	5230		9.50	
	802.11ac-VHT80 MCS0	42	5210		9.50	93.06

5GHz WLAN	Ant 1+2 Simultaneous Handheld					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	15.73	16.50	98.28
		40	5200	16.00	16.50	
		44	5220	16.14	16.50	
		48	5240	15.72	16.50	
	802.11n-HT20 MCS0	36	5180	Not Required	16.50	98.15
		40	5200		16.50	
		44	5220		16.50	
		48	5240		16.50	
	802.11n-HT40 MCS0	38	5190		16.00	96.32
		46	5230		16.00	
	802.11ac-VHT20 MCS0	36	5180		16.50	97.79
		40	5200		16.50	
		44	5220		16.50	
		48	5240		16.50	
	802.11ac-VHT40 MCS0	38	5190		16.00	96.32
		46	5230		16.00	
	802.11ac-VHT80 MCS0	42	5210		14.00	93.06

5GHz WLAN	Ant 1+2 Standalone（Head/Body Worn/Handheld）					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.90	21.50	98.28
		56	5280	20.76	21.50	
		60	5300	20.68	21.50	
		64	5320	18.58	19.00	
	802.11n-HT20 MCS0	52	5260	20.70	21.00	98.15
		56	5280	20.60	21.00	
		60	5300	20.54	21.00	
		64	5320	19.64	20.00	
	802.11n-HT40 MCS0	54	5270	19.74	20.00	96.32
		62	5310	16.89	17.00	
	802.11ac-VHT20 MCS0	52	5260	20.68	21.00	97.79
		56	5280	20.56	21.00	
		60	5300	20.51	21.00	
		64	5320	20.51	21.00	
	802.11ac-VHT40 MCS0	54	5270	19.67	20.00	96.32
		62	5310	19.45	20.00	
	802.11ac-VHT80 MCS0	58	5290	13.65	14.00	93.06

5GHz WLAN	Ant 1+2 Standalone Sensor					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.60	15.00	98.28
		56	5280	14.80	15.00	
		60	5300	14.80	15.00	
		64	5320	14.56	15.00	
	802.11n-HT20 MCS0	52	5260	Not Required	15.00	98.15
		56	5280		15.00	
		60	5300		15.00	
		64	5320		15.00	
	802.11n-HT40 MCS0	54	5270		14.50	96.32
		62	5310		14.50	
	802.11ac-VHT20 MCS0	52	5260		15.00	97.79
		56	5280		15.00	
		60	5300		15.00	
		64	5320		15.00	
	802.11ac-VHT40 MCS0	54	5270		14.50	96.32
		62	5310		14.50	
	802.11ac-VHT80 MCS0	58	5290		14.00	93.06

5GHz WLAN	Ant 1+2 Simultaneous Sensor					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	9.66	10.00	98.28
		56	5280	9.69	10.00	
		60	5300	9.66	10.00	
		64	5320	9.60	10.00	
	802.11n-HT20 MCS0	52	5260	Not Required	10.00	98.15
		56	5280		10.00	
		60	5300		10.00	
		64	5320		10.00	
	802.11n-HT40 MCS0	54	5270		9.50	96.32
		62	5310		9.50	
	802.11ac-VHT20 MCS0	52	5260		10.00	97.79
		56	5280		10.00	
		60	5300		10.00	
		64	5320		10.00	
	802.11ac-VHT40 MCS0	54	5270		9.50	96.32
		62	5310		9.50	
	802.11ac-VHT80 MCS0	58	5290		9.50	93.06

5GHz WLAN	Ant 1+2 Simultaneous Handheld					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.27	16.50	98.28
		56	5280	16.27	16.50	
		60	5300	16.21	16.50	
		64	5320	16.06	16.50	
	802.11n-HT20 MCS0	52	5260	Not Required	16.50	98.15
		56	5280		16.50	
		60	5300		16.50	
		64	5320		16.50	
	802.11n-HT40 MCS0	54	5270		16.00	96.32
		62	5310		16.00	
	802.11ac-VHT20 MCS0	52	5260		16.50	97.79
		56	5280		16.50	
		60	5300		16.50	
		64	5320		16.50	
	802.11ac-VHT40 MCS0	54	5270		16.00	96.32
		62	5310		16.00	
	802.11ac-VHT80 MCS0	58	5290		14.00	93.06

5GHz WLAN	Ant 1+2 Standalone（Head/Body Worn/Handheld）					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.67	21.50	98.28
		116	5580	20.23	21.50	
		132	5660	19.86	20.00	
		140	5700	19.43	20.00	
	802.11n-HT20 MCS0	100	5500	20.47	21.00	98.15
		116	5580	20.07	21.00	
		132	5660	19.76	20.00	
		140	5700	19.97	20.00	
	802.11n-HT40 MCS0	102	5510	15.35	16.00	96.32
		110	5550	19.45	20.00	
		134	5670	18.77	20.00	
	802.11ac-VHT20 MCS0	100	5500	20.45	21.00	97.79
		116	5580	20.04	21.00	
		132	5660	19.68	20.00	
		140	5700	19.91	20.00	
	802.11ac-VHT40 MCS0	102	5510	19.57	20.00	96.32
		110	5550	19.40	20.00	
		134	5670	18.65	20.00	
	802.11ac-VHT80 MCS0	106	5530	15.03	15.50	93.06

5GHz WLAN	Ant 1+2 Standalone Sensor					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	14.72	15.00	98.28
		116	5580	14.59	15.00	
		132	5660	14.17	15.00	
		140	5700	13.99	15.00	
	802.11n-HT20 MCS0	100	5500	Not Required	15.00	98.15
		116	5580		15.00	
		132	5660		15.00	
		140	5700		15.00	
	802.11n-HT40 MCS0	102	5510		14.50	96.32
		110	5550		14.50	
		134	5670		14.50	
	802.11ac-VHT20 MCS0	100	5500		15.00	97.79
		116	5580		15.00	
		132	5660		15.00	
		140	5700		15.00	
	802.11ac-VHT40 MCS0	102	5510		14.50	96.32
		110	5550		14.50	
		134	5670		14.50	
	802.11ac-VHT80 MCS0	106	5530		14.50	93.06

5GHz WLAN	Ant 1+2 Simultaneous Sensor					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	10.00	10.50	98.28
		116	5580	9.79	10.50	
		132	5660	9.37	10.50	
		140	5700	8.94	10.50	
	802.11n-HT20 MCS0	100	5500	Not Required	10.50	98.15
		116	5580		10.50	
		132	5660		10.50	
		140	5700		10.50	
	802.11n-HT40 MCS0	102	5510		10.00	96.32
		110	5550		10.00	
		134	5670		10.00	
	802.11ac-VHT20 MCS0	100	5500		10.50	97.79
		116	5580		10.50	
		132	5660		10.50	
		140	5700		10.50	
	802.11ac-VHT40 MCS0	102	5510		10.00	96.32
		110	5550		10.00	
		134	5670		10.00	
	802.11ac-VHT80 MCS0	106	5530		10.00	93.06

5GHz WLAN	Ant 1+2 Simultaneous Handheld					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.37	17.50	98.28
		116	5580	17.05	17.50	
		132	5660	16.45	17.50	
		140	5700	16.30	17.50	
	802.11n-HT20 MCS0	100	5500	Not Required	17.50	98.15
		116	5580		17.50	
		132	5660		17.50	
		140	5700		17.50	
	802.11n-HT40 MCS0	102	5510		16.00	96.32
		110	5550		17.00	
		134	5670		17.00	
	802.11ac-VHT20 MCS0	100	5500		17.50	97.79
		116	5580		17.50	
		132	5660		17.50	
		140	5700		17.50	
	802.11ac-VHT40 MCS0	102	5510		17.00	96.32
		110	5550		17.00	
		134	5670		17.00	
	802.11ac-VHT80 MCS0	106	5530		15.50	93.06

5GHz WLAN	Ant 1+2 Standalone（Head/Body Worn/Handheld）					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	19.74	21.00	98.28
		157	5785	20.15	21.00	
		165	5825	19.98	21.00	
	802.11n-HT20 MCS0	149	5745	19.67	20.50	98.15
		157	5785	20.03	20.50	
		165	5825	19.81	20.50	
	802.11n-HT40 MCS0	151	5755	18.86	20.00	96.32
		159	5795	18.92	20.00	
	802.11ac-VHT20 MCS0	149	5745	19.62	20.50	97.79
		157	5785	20.00	20.50	
		165	5825	19.80	20.50	
	802.11ac-VHT40 MCS0	151	5755	18.75	19.00	96.32
		159	5795	18.85	19.00	
	802.11ac-VHT80 MCS0	155	5775	18.13	19.00	93.06

5GHz WLAN	Ant 1+2 Standalone Sensor//Hotspot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	15.01	16.00	98.28
		157	5785	15.15	16.00	
		165	5825	15.60	16.00	
	802.11n-HT20 MCS0	149	5745	Not Required	16.00	98.15
		157	5785		16.00	
		165	5825		16.00	
	802.11n-HT40 MCS0	151	5755		15.50	96.32
		159	5795		15.50	
	802.11ac-VHT20 MCS0	149	5745		16.00	97.79
		157	5785		16.00	
		165	5825		16.00	
	802.11ac-VHT40 MCS0	151	5755		15.50	96.32
		159	5795		15.50	
	802.11ac-VHT80 MCS0	155	5775		15.50	93.06

5GHz WLAN	Ant 1+2 Simultaneous Sensor/Hotspot					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	10.34	11.50	98.28
		157	5785	10.51	11.50	
		165	5825	11.00	11.50	
	802.11n-HT20 MCS0	149	5745	Not Required	11.50	98.15
		157	5785		11.50	
		165	5825		11.50	
	802.11n-HT40 MCS0	151	5755		11.00	96.32
		159	5795		11.00	
	802.11ac-VHT20 MCS0	149	5745		11.50	97.79
		157	5785		11.50	
		165	5825		11.50	
	802.11ac-VHT40 MCS0	151	5755		11.00	96.32
		159	5795		11.00	
	802.11ac-VHT80 MCS0	155	5775		11.00	93.06

5GHz WLAN	Ant 1+2 Simultaneous Handheld					
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	14.24	15.00	98.28
		157	5785	14.49	15.00	
		165	5825	14.84	15.00	
	802.11n-HT20 MCS0	149	5745	Not Required	15.00	98.15
		157	5785		15.00	
		165	5825		15.00	
	802.11n-HT40 MCS0	151	5755		14.50	96.32
		159	5795		14.50	
	802.11ac-VHT20 MCS0	149	5745		15.00	97.79
		157	5785		15.00	
		165	5825		15.00	
	802.11ac-VHT40 MCS0	151	5755		14.50	96.32
		159	5795		14.50	
	802.11ac-VHT80 MCS0	155	5775		14.50	93.06

BT EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.86	14.36	14.51
	CH 39	2441	16.95	15.21	15.20
	CH 78	2480	15.90	14.91	14.85
Tune-up Limit			17	16	16

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	10.14
	CH 19	2440	10.72
	CH 39	2480	10.16
Tune-up Limit			11

BT LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
			1Mbps
LE	CH 00	2402	10.15
	CH 19	2440	10.83
	CH 39	2480	10.34
Tune-up Limit			11.00

Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Head-Ant 2

									Average Value of Time Sweep (W/kg)																																				
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	1	6	11	16	21	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	5	25	45	65	85	105	125
WCDMA V	RMC 12.2Kbps	4233	846.6	-	-	Left Cheek	0mm	1.010	1.190	0.602	0.071	0.434	0.796	0.871	0.985	1.032	-0.075	0.181	0.492	0.703	0.861	-0.127	0.022	0.353	0.723	0.799	0.926	0.930	-0.075	0.142	0.538	1.008	-0.139	0.049	0.051	0.445	0.661	0.854	-0.062	0.689	0.259	-0.054	0.795	0.302	0.543

									Average Value of Time Sweep (W/kg)																																				
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	2	7	12	17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142	10	30	50	70	90	110	130
LTE Band 5	10M/QPSK	20600	844	25	0	Left Cheek	0mm	0.357	0.411	0.042	0.144	0.303	0.336	0.411	0.359	0.393	0.086	0.213	0.361	0.380	0.359	0.051	0.137	0.291	0.329	0.349	0.324	0.031	0.078	0.201	0.389	0.385	0.048	0.236	0.328	0.134	0.318	0.323	0.248	0.300	0.401	0.247	0.339	0.324	0.087

									Average Value of Time Sweep (W/kg)																																				
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	3	8	13	18	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	15	35	55	75	95	115	135
LTE Band 12	10M/QPSK	23095	707.5	1	0	Left Tilted	0mm	0.539	1.020	0.295	0.658	0.594	0.542	0.503	0.478	0.457	0.110	0.298	0.384	0.348	0.119	0.214	0.258	0.208	0.183	0.168	0.158	0.022	0.081	0.366	0.481	0.231	0.058	0.358	0.173	0.477	0.021	0.081	0.575	0.049	0.331	0.202	0.044	0.201	0.206

									Average Value of Time Sweep (W/kg)																																				
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	0	20	40	60	80	100	120	140
LTE Band 26	15M/QPSK	26865	831.5	1	0	Left Cheek	0mm	0.670	1.060	0.120	0.293	0.465	0.575	0.674	0.739	0.076	0.224	0.435	0.603	0.721	0.558	0.121	0.252	0.429	0.554	0.664	0.729	0.082	0.203	0.401	0.594	0.758	0.148	0.605	0.093	0.782	0.178	0.759	0.592	0.235	0.037	0.556	0.216	0.157	0.068

Body-Ant 1

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	2	15	28	41	54	67	80	93	106	119	132	143	65	131
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Back	5mm	1.150	1.650	0.530	0.433	0.759	0.765	0.757	0.878	1.038	0.677	1.047	0.683	0.763	0.619	1.056	0.896

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	3	16	29	42	55	68	81	94	107	120	133	0	66	
WCDMA IV	RMC 12.2Kbps	1513	1752.6	-	-	Bottom Side	5mm	1.200	1.590	0.644	0.540	0.654	0.723	0.729	0.928	1.108	0.566	1.230	0.648	0.819	0.757	1.220	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	4	17	30	43	56	69	82	95	108	121	134	1	78	
WCDMA V	RMC 12.2Kbps	4233	846.6	—	—	Back	5mm	0.826	1.060	0.047	0.046	0.730	0.563	0.055	0.045	0.051	0.069	0.047	0.824	0.813	1.040	0.994	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	5	18	31	44	57	70	83	96	109	122	135	13	79	
LTE Band 2	20M/QPSK	19100	1900	50	0	Bottom Side	5mm	1.090	1.410	0.583	0.502	0.487	0.751	0.693	0.747	0.738	0.734	0.720	0.584	0.648	0.694	1.022	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	6	19	32	45	58	71	84	97	110	123	136	14	91	
LTE Band 7	20M/QPSK	21100	2535	50	0	Bottom Side	5mm	1.160	1.570	1.241	1.269	1.302	1.109	1.124	1.104	1.148	0.909	1.186	0.975	1.004	1.346	1.192	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	7	20	33	46	59	72	85	98	111	124	137	26	92	
LTE Band 12	10M/QPSK	23095	707.5	1	0	Back	5mm	0.520	0.656	0.055	0.063	0.072	0.073	0.068	0.064	0.062	0.058	0.065	0.073	0.061	0.051	0.048	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	8	21	34	47	60	73	86	99	112	125	138	27	104	
LTE Band 26	15M/QPSK	26865	831.5	1	0	Back	5mm	0.351	0.776	0.049	0.046	0.033	0.037	0.059	0.062	0.059	0.048	0.042	0.075	0.051	0.048	0.069	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	9	22	35	48	61	74	87	100	113	126	139	39	105	
LTE Band 41	20M/QPSK	40620	2593	100	0	Bottom Side	5mm	1.080	1.730	1.084	1.114	1.136	1.088	1.310	0.844	0.881	0.760	0.951	1.361	0.865	1.145	0.973	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	10	23	36	49	62	75	88	101	114	127	140	40	117	
LTE Band 66	20M/QPSK	132572	1770	50	0	Back	5mm	1.050	1.520	0.450	0.424	0.498	0.574	1.497	0.346	0.571	0.345	0.608	1.131	0.478	0.564	0.419	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	11	24	37	50	63	76	89	102	115	128	141	52	118	
FR1 n7	20M/QPSK	50700	2535	1	1	Back	5mm	0.440	0.753	0.173	0.154	0.178	0.173	0.233	0.149	0.187	0.129	0.177	0.288	0.125	0.155	0.196	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)														
									Auto-Tune	12	25	38	51	64	77	90	103	116	129	142	53	130	
FR1 n66	20M/QPSK	349000	1745	1	1	Back	5mm	0.425	0.537	0.342	0.235	0.268	0.428	0.372	0.214	0.198	0.462	0.526	0.521	0.315	0.287	0.362	

Body-Ant 2

										Average Value of Time Sweep (W/kg)																																				
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	1	6	11	16	21	26	31	36	41	46	51	56	61	66	71	76	81	86	91	96	101	106	111	116	121	126	131	136	141	5	25	45	65	85	105	125	
WCDMA V	RMC 12.2Kbps	4233	846.6	—	—	TOP Side	5mm	0.749	1.180	1.105	0.257	0.527	0.791	0.943	1.064	1.157	0.178	0.494	0.797	1.031	1.038	0.081	0.209	0.424	0.641	0.871	1.045	1.166	0.161	0.386	0.692	1.034	0.099	0.349	1.139	0.201	0.788	0.919	0.131	0.846	0.481	0.136	0.926	0.494	0.761	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg): Auto-Tune	2	7	12	17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92	97	102	107	112	117	122	127	132	137	142	10	30	50	70	90	110	130
LTE Band 5	QPSK	20525	836.5	1	0	Back	5mm	0.456	0.586	0.054	0.141	0.263	0.373	0.423	0.458	0.489	0.095	0.208	0.333	0.431	0.501	0.059	0.137	0.249	0.365	0.458	0.507	0.059	0.091	0.197	0.345	0.492	0.069	0.235	0.485	0.114	0.433	0.409	0.212	0.491	0.375	0.186	0.511	0.428	0.081

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg): Auto-Tune	3	8	13	18	23	28	33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	15	35	55	75	95	115	135
LTE Band 12	QPSK	23095	707.5	1	0	TOP Side	5mm	0.507	0.669	0.212	0.418	0.367	0.336	0.314	0.299	0.288	0.086	0.197	0.245	0.226	0.094	0.151	0.171	0.152	0.124	0.116	0.113	0.032	0.068	0.246	0.298	0.154	0.051	0.232	0.123	0.298	0.029	0.063	0.358	0.066	0.219	0.144	0.053	0.137	0.140

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg): Auto-Tune	4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	0	20	40	60	80	100	120	140
LTE Band 26	QPSK	26865	831.5	1	0	Back	5mm	0.332	0.510	0.112	0.245	0.385	0.472	0.448	0.489	0.066	0.205	0.385	0.423	0.437	0.418	0.092	0.194	0.311	0.401	0.487	0.436	0.063	0.175	0.323	0.462	0.495	0.139	0.432	0.075	0.498	0.158	0.253	0.349	0.144	0.061	0.141	0.129	0.095	0.133

Head-Ant 1

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	2	15	28	41	54	67	80	93	106	119	132	143	65	131
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Left Cheek	0mm	0.079	0.090	0.071	0.085	0.082	0.081	0.083	0.087	0.090	0.079	0.081	0.081	0.088	0.087	0.088	0.089

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	3	16	29	42	55	68	81	94	107	120	133	0	66	
WCDMA IV	RMC 12.2Kbps	1413	1732.6	-	-	Left Cheek	0mm	0.071	0.100	0.077	0.067	0.079	0.100	0.075	0.092	0.094	0.072	0.094	0.076	0.085	0.052	0.068	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	4	17	30	43	56	69	82	95	108	121	134	1	78	
WCDMA V	RMC 12.2Kbps	4182	836.4	-	-	Left Cheek	0mm	0.150	0.198	0.149	0.150	0.139	0.143	0.146	0.146	0.144	0.133	0.156	0.140	0.153	0.032	0.055	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	5	18	31	44	57	70	83	96	109	122	135	13	79	
LTE Band 2	20M/QPSK	18900	1880	50	0	Left Cheek	0mm	0.046	0.051	0.047	0.041	0.037	0.044	0.046	0.051	0.046	0.044	0.046	0.045	0.045	0.041	0.049	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	6	19	32	45	58	71	84	97	110	123	136	14	91	
LTE Band 7	20M/QPSK	21100	2535	1	0	Right Cheek	0mm	0.095	0.108	0.058	0.055	0.059	0.051	0.059	0.049	0.065	0.044	0.071	0.044	0.043	0.052	0.055	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	7	20	33	46	59	72	85	98	111	124	137	26	92	
LTE Band 12	10M/QPSK	23095	707.5	1	0	Right Cheek	0mm	0.153	0.166	0.105	0.163	0.041	0.033	0.061	0.043	0.036	0.042	0.044	0.101	0.099	0.129	0.039	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	8	21	34	47	60	73	86	99	112	125	138	27	104	
LTE Band 26	15M/QPSK	26865	831.5	1	0	Right Cheek	0mm	0.159	0.174	0.068	0.061	0.087	0.098	0.067	0.153	0.131	0.068	0.173	0.039	0.126	0.074	0.048	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	9	22	35	48	61	74	87	100	113	126	139	39	105	
LTE Band 41	20M/QPSK	40620	2593	1	0	Right Cheek	0mm	0.075	0.085	0.054	0.058	0.064	0.048	0.062	0.060	0.041	0.035	0.043	0.078	0.038	0.085	0.057	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	10	23	36	49	62	75	88	101	114	127	140	40	117	
LTE Band 66	20M/QPSK	132322	1745	1	0	Right Cheek	0mm	0.045	0.097	0.063	0.065	0.073	0.068	0.088	0.064	0.082	0.058	0.071	0.089	0.081	0.053	0.092	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	11	24	37	50	63	76	89	102	115	128	141	52	118	
FR1 n7	20M/QPSK	507000	2535	1	1	Right Cheek	0mm	0.052	0.065	0.051	0.048	0.046	0.040	0.061	0.057	0.038	0.034	0.042	0.039	0.043	0.027	0.039	

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)															
									Auto-Tune	12	25	38	51	64	77	90	103	116	129	142	53	130	
FR1 n66	20M/QPSK	349000	1745	1	1	Right Cheek	0mm	0.067	0.078	0.055	0.044	0.062	0.034	0.072	0.051	0.072	0.032	0.054	0.048	0.034	0.046	0.058	

verified for SAR higher than 1.2W/Kg

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										0.768	0.449	0.530	0.589	0.628	0.651	0.678	0.721	0.729	0.725	0.742	0.750	0.774	0.777	0.858	0.433	0.429	0.509	0.567	0.610	0.635
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										0.666	0.687	0.711	0.713	0.727	0.731	0.763	0.759	0.832	0.689	0.577	0.636	0.673	0.702	0.718	0.734	0.746	0.753	0.755	0.764	0.765
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										0.786	0.783	0.819	0.775	0.568	0.631	0.668	0.697	0.718	0.734	0.751	0.759	0.757	0.760	0.764	0.781	0.779	0.811	0.558	1.615	1.329
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Back	5mm	1.15	1.650	1.146	1.042	0.976	0.915	0.878	0.845	0.846	0.824	0.804	0.770	0.766	0.688	0.489	1.810	1.577	1.311	1.142	1.038	0.956	0.901	0.852
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										0.845	0.818	0.799	0.762	0.734	0.751	0.719	0.702	0.684	0.677	0.636	1.222	0.933	0.502	0.488	0.485	0.477	0.474	0.471	0.456	1.503
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										1.229	1.047	0.951	0.884	0.835	0.797	0.772	0.767	0.747	0.732	0.711	0.704	0.693	0.701	0.683	0.669	0.658	0.651	0.634	0.411	1.555
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.452	1.192	1.021	0.925	0.855	0.799	0.763	0.757	0.729	0.711	0.684	0.656	0.671	0.642	0.626	0.609	0.602	0.572			

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										0.647	0.587	0.630	0.644	0.645	0.657	0.665	0.668	0.673	0.690	0.678	0.675	0.688	0.691	0.717	0.733	0.540	0.572	0.590	0.603	0.613
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										0.623	0.624	0.628	0.640	0.634	0.639	0.643	0.636	0.654	0.572	0.962	0.911	0.839	0.811	0.790	0.765	0.752	0.743	0.757	0.746	0.737
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										0.723	0.725	0.685	0.670	0.925	0.865	0.826	0.784	0.760	0.747	0.738	0.729	0.724	0.729	0.720	0.705	0.702	0.668	0.475	1.375	1.527
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
WCDMA IV	RMC 12.2Kbps	1513	1752.6	-	-	Bottom Side	5mm	1.2	1.590	1.562	1.361	1.210	1.090	0.997	0.928	0.913	0.870	0.844	0.769	0.764	0.607	0.428	0.714	1.180	1.360	1.305	1.209	1.108	1.008	0.931
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										0.921	0.873	0.828	0.775	0.743	0.752	0.701	0.665	0.648	0.628	0.566	1.564	1.348	0.437	0.423	0.422	0.416	0.417	0.413	0.392	1.480
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										1.551	1.440	1.230	1.107	0.999	0.908	0.852	0.848	0.818	0.774	0.724	0.713	0.694	0.704	0.672	0.648	0.632	0.629	0.574	0.331	0.799
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.234	1.297	1.189	1.074	0.972	0.894	0.828	0.819	0.771	0.751	0.702	0.665	0.674	0.642	0.618	0.593	0.582	0.532			

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										1.110	1.310	1.351	1.325	1.294	1.255	1.241	1.209	1.203	1.191	1.181	1.169	1.136	1.174	1.111	1.143	1.271	1.332	1.318	1.269	1.235
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										1.216	1.196	1.181	1.198	1.171	1.157	1.129	1.174	1.098	1.065	1.271	1.302	1.268	1.239	1.252	1.191	1.178	1.141	1.158	1.146	1.121
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										1.099	1.124	1.085	1.109	1.252	1.302	1.279	1.253	1.204	1.193	1.159	1.146	1.207	1.141	1.137	1.114	1.124	1.129	0.937	1.485	1.615
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
LTE Band 7	20M/QPSK	21100	2535	50	0	Bottom Side	5mm	1.16	1.570	1.513	1.428	1.332	1.297	1.195	1.143	1.177	1.193	1.104	1.046	1.109	0.986	0.894	1.427	1.616	1.517	1.419	1.334	1.234	1.188	1.142
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										1.148	1.127	1.086	1.058	1.008	1.058	1.024	0.998	0.965	0.952	0.959	1.561	1.564	0.909	0.897	0.886	0.879	0.890	0.886	0.890	1.486
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										1.570	1.505	1.381	1.315	1.244	1.186	1.142	1.157	1.131	1.101	1.034	1.032	1.003	1.068	1.009	1.005	0.914	0.934	0.975	0.834	1.417
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.552	1.419	1.359	1.256	1.183	1.127	1.092	1.098	1.064	1.037	1.004	1.032	1.011	0.979	0.966	0.963	0.934	0.934			

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										0.701	0.391	0.461	0.516	0.555	0.583	0.609	0.628	0.648	0.654	0.664	0.678	0.702	0.706	0.779	0.777	0.381	0.451	0.502	0.544	0.574
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										0.598	0.618	0.637	0.637	0.615	0.664	0.691	0.686	0.757	0.631	0.487	0.545	0.591	0.618	0.638	0.654	0.667	0.675	0.680	0.682	0.692
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										0.712	0.721	0.751	0.715	0.707	0.481	0.541	0.585	0.613	0.634	0.651	0.663	0.679	0.676	0.688	0.693	0.707	0.709	0.515	1.256	1.087
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
LTE Band 2	20M/QPSK	19100	1900	50	0	Bottom Side	5mm	1.09	1.410	0.980	0.901	0.856	0.821	0.791	0.771	0.765	0.747	0.736	0.709	0.706	0.642	0.431	1.408	1.263	1.087	0.947	0.876	0.825	0.778	0.738
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										0.736	0.716	0.690	0.657	0.625	0.643	0.615	0.609	0.608	0.582	0.551	0.907	0.734	0.418	0.409	0.408	0.405	0.408	0.406	0.408	1.161
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										0.994	0.873	0.807	0.761	0.720	0.701	0.675	0.662	0.656	0.645	0.630	0.618	0.615	0.623	0.613	0.603	0.585	0.584	0.574	0.361	1.406
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.187	1.005	0.891	0.816	0.762	0.714	0.677	0.673	0.655	0.648	0.637	0.608	0.623	0.594	0.585	0.581	0.545	0.527			

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										1.058	1.255	1.293	1.260	1.226	1.179	1.156	1.097	1.085	1.084	1.097	1.072	1.059	1.077	1.029	1.051	1.179	1.209	1.192	1.165	1.149
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										1.140	1.114	1.094	1.102	1.091	1.081	1.047	1.055	1.036	0.995	1.178	1.203	1.177	1.149	1.136	1.036	1.016	1.001	1.005	1.002	0.995
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										0.985	0.997	0.941	0.949	1.082	1.116	1.088	1.071	1.043	1.029	1.026	0.997	1.002	0.988	0.976	0.961	0.971	0.954	0.790	1.310	1.300
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
LTE Band 41	20M/QPSK	40620	2593	100	0	Bottom Side	5mm	1.08	1.730	1.299	1.211	1.082	1.080	1.721	0.977	0.994	0.972	0.945	0.917	0.919	0.844	0.750	1.265	1.366	1.286	1.274	1.125	1.058	1.004	0.983
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										0.968	0.947	0.917	0.881	0.898	0.813	0.860	0.842	0.818	0.805	0.804	1.408	1.318	0.761	0.750	0.749	0.760	0.727	0.722	0.728	1.310
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										1.370	1.270	1.175	1.104	1.050	1.011	0.968	0.983	0.951	0.927	0.893	0.888	0.864	0.872	0.903	0.851	0.832	0.821	0.824	0.855	1.315
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.361	1.295	1.199	1.103	1.107	1.050	0.988	0.976	0.968	0.933	0.919	0.879	0.885	0.865	0.899	0.864	0.825	0.831			

Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune	Average Value of Time Sweep (W/kg)																				
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
										0.437	0.393	0.409	0.421	0.429	0.435	0.439	0.442	0.444	0.447	0.450	0.448	0.453	0.457	0.468	0.479	0.369	0.388	0.402	0.412	0.416
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										0.417	0.425	0.424	0.428	0.426	0.431	0.435	0.436	0.445	0.388	0.599	0.562	0.534	0.518	0.507	0.498	0.491	0.483	0.485	0.478	0.475
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										0.472	0.469	0.453	0.442	0.581	0.546	0.525	0.574	0.559	0.547	0.541	0.536	0.529	0.528	0.581	0.571	0.562	0.542	0.403	1.327	1.497
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
LTE Band 66	20M/QPSK	132572	1770	50	0	Back	5mm	1.05	1.520	1.307	1.081	0.951	0.861	0.787	0.731	0.718	0.661	0.612	0.602	0.604	0.482	0.346	0.693	1.207	1.218	1.103	0.988	0.892	0.807	0.745
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										0.720	0.693	0.653	0.601	0.571	0.581	0.542	0.526	0.510	0.495	0.450	1.493	1.151	0.368	0.362	0.353	0.353	0.345	0.348	0.330	1.383
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										1.429	1.189	1.005	0.889	0.792	0.727	0.671	0.605	0.632	0.608	0.581	0.563	0.546	0.561	0.530	0.526	0.508	0.491	0.459	0.283	0.771
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143			
										1.142	1.131	0.988	0.878	0.791	0.714	0.668	0.652	0.617	0.592	0.562	0.523	0.533	0.499	0.478	0.464	0.454	0.418			