

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

10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %

10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %

10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	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	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %

10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	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	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 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.



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power level/Default Power level for WWAN

ANTO Default Power							
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8
GSM 1 Tx slot	32.15	32.10	31.97	33.50	23.15	23.10	22.97
GPRS 1 Tx slots	32.21	32.04	31.89	33.50	23.21	23.04	22.99
GPRS 2 Tx slots	29.43	29.46	29.27	30.50	23.43	23.46	23.27
GPRS 3 Tx slots	27.33	27.74	27.67	28.50	23.07	23.48	23.41
GPRS 4 Tx slots	26.00	26.32	26.30	27.50	23.00	23.32	23.30
EDGE 1 Tx slot	25.94	25.96	25.85	27.50	16.94	16.96	16.85
EDGE 2 Tx slots	23.17	23.11	23.14	24.50	17.17	17.11	17.14
EDGE 3 Tx slots	21.19	21.24	21.16	23.00	16.93	16.98	16.90
EDGE 4 Tx slots	19.84	20.12	20.03	21.50	16.84	17.12	17.03

ANTO Default Power							
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	1850.2	1880	1909.8		1850.2	1880	1909.8
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8
GSM 1 Tx slot	29.27	29.33	29.21	30.50	20.27	20.33	20.21
GPRS 1 Tx slot	29.34	29.28	29.10	30.50	20.34	20.28	20.10
GPRS 2 Tx slots	26.70	26.64	26.39	27.50	20.70	20.64	20.39
GPRS 3 Tx slots	24.63	24.82	24.61	25.50	20.37	20.56	20.35
GPRS 4 Tx slots	23.17	23.52	23.43	24.50	20.17	20.52	20.43
EDGE 1 Tx slot	25.23	25.39	25.18	26.50	16.23	16.39	16.18
EDGE 2 Tx slots	22.51	22.45	22.27	24.00	16.51	16.45	16.27
EDGE 3 Tx slots	19.92	19.82	19.73	21.50	15.66	15.56	15.47
EDGE 4 Tx slots	19.97	19.69	19.85	20.50	16.97	16.69	16.85

Band	ANTO Default Power				ANTO Default Power			ANTO Default Power					
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V				
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	Tune-up Limit (dBm)	
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	24.38	24.33	24.31	25.50	24.10	24.13	24.11	25.50	24.71	24.74	24.72	25.50
3GPP Rel 99	RM 12.2Kbps	24.40	24.43	24.36	25.50	24.14	24.17	24.09	25.50	24.75	24.78	24.69	25.50
3GPP Rel 6	HSDPA Subtest-1	23.80	23.83	23.81	24.50	23.21	23.20	23.05	24.50	23.76	23.81	23.54	24.50
3GPP Rel 6	HSDPA Subtest-2	23.77	23.82	23.80	24.50	23.23	23.18	23.11	24.50	23.82	23.69	23.58	24.50
3GPP Rel 6	HSDPA Subtest-3	22.96	23.26	23.30	24.00	22.72	22.68	22.59	24.00	23.33	23.29	23.20	24.00
3GPP Rel 6	HSDPA Subtest-4	23.31	23.32	23.27	24.00	22.71	22.73	22.61	24.00	23.32	23.34	23.22	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	23.85	23.80	23.79	24.50	23.09	23.08	22.93	24.50	23.82	23.87	23.56	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	23.77	23.87	23.86	24.50	23.11	23.06	22.99	24.50	23.87	23.74	23.56	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	23.02	23.22	23.25	24.00	22.60	22.56	22.47	24.00	23.37	23.30	23.21	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	23.27	23.37	23.29	24.00	22.59	22.61	22.49	24.00	23.38	23.31	23.18	24.00
3GPP Rel 6	HSUPA Subtest-1	23.46	23.45	23.37	24.50	23.17	23.17	23.05	24.50	23.69	23.75	23.66	24.50
3GPP Rel 6	HSUPA Subtest-2	21.42	21.43	21.33	22.50	21.17	21.18	21.03	22.50	21.78	21.79	21.67	22.50
3GPP Rel 6	HSUPA Subtest-3	22.44	22.47	22.34	23.50	22.19	22.16	22.03	23.50	22.80	22.77	22.64	23.50
3GPP Rel 6	HSUPA Subtest-4	21.45	21.46	21.28	22.50	21.12	21.17	21.09	22.50	21.73	21.76	21.70	22.50
3GPP Rel 6	HSUPA Subtest-5	23.40	23.50	23.40	24.50	23.90	23.90	23.50	24.50	23.78	23.74	23.40	24.50



Band 2 ANTO Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.02	23.31	23.08				
20	QPSK	1	49	23.10	23.05	23.23	24.5	0		
20	QPSK	1	99	23.23	22.99	22.99				
20	QPSK	50	0	22.17	22.29	22.13				
20	QPSK	50	24	22.22	22.11	21.97	23.5	1		
20	QPSK	100	0	22.26	22.31	22.13				
20	16QAM	1	0	21.97	21.99	22.25				
20	16QAM	1	49	21.95	22.18	22.26	23.5	1		
20	16QAM	1	99	22.09	22.20	22.01				
20	16QAM	50	0	21.27	21.07	21.11				
20	16QAM	50	24	21.26	21.25	21.13				
20	16QAM	50	50	21.25	21.22	21.00	22.5	2		
20	16QAM	100	0	21.21	21.07	21.11				
20	64QAM	1	0	21.04	21.27	21.09				
20	64QAM	1	49	20.89	21.16	20.83	22.5	2		
20	64QAM	1	99	21.05	20.89	21.17				
20	64QAM	50	0	20.26	20.14	20.14				
20	64QAM	50	24	20.27	20.10	20.04	21.5	3		
20	64QAM	50	50	20.21	20.12	19.97				
20	64QAM	100	0	20.29	20.09	20.11				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.16	23.28	23.18				
15	QPSK	1	37	23.27	23.20	23.07	24.5	0		
15	QPSK	1	74	23.20	23.12	23.04				
15	QPSK	36	0	22.22	22.22	22.15				
15	QPSK	36	20	22.24	22.19	22.13	23.5	1		
15	QPSK	36	39	22.26	22.06	22.10				
15	QPSK	75	0	22.25	22.14	22.11				
15	16QAM	1	0	22.42	22.34	22.17				
15	16QAM	1	37	22.30	22.24	22.17	23.5	1		
15	16QAM	1	74	22.45	22.34	22.39				
15	16QAM	36	0	21.31	21.15	21.12				
15	16QAM	36	20	21.16	21.14	21.13	22.5	2		
15	16QAM	36	39	21.16	21.16	21.11				
15	64QAM	75	0	21.24	21.10	21.17				
15	64QAM	1	0	21.10	21.25	21.28				
15	64QAM	1	37	21.29	21.08	21.17	22.5	2		
15	64QAM	1	74	21.12	21.22	21.29				
15	64QAM	36	0	20.19	20.11	20.12				
15	64QAM	36	20	20.23	20.21	20.16	21.5	3		
15	64QAM	36	39	20.18	20.12	19.98				
15	64QAM	75	0	20.18	20.18	20.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.23	23.29	23.25				
10	QPSK	1	25	23.24	23.14	23.24	24.5	0		
10	QPSK	1	49	23.15	22.92	23.00				
10	QPSK	25	0	22.39	22.27	22.22				
10	QPSK	25	12	22.30	22.30	22.33	23.5	1		
10	QPSK	25	25	22.33	22.23	22.22				
10	QPSK	50	0	22.39	22.26	22.24				
10	16QAM	1	0	22.28	22.22	22.39				
10	16QAM	1	25	22.42	22.45	22.15	23.5	1		
10	16QAM	1	49	22.26	22.37	22.23				
10	16QAM	25	0	21.45	21.25	21.25				
10	16QAM	25	12	21.40	21.32	21.23	22.5	2		
10	16QAM	25	25	21.25	21.20	21.03				
10	16QAM	50	0	21.39	21.21	21.30				
10	64QAM	1	0	21.44	21.33	21.37				
10	64QAM	1	25	21.34	21.13	21.37	22.5	2		
10	64QAM	1	49	21.32	21.11	21.28				
10	64QAM	25	0	20.34	20.31	20.34				
10	64QAM	25	12	20.33	20.23	20.24	21.5	3		
10	64QAM	25	25	20.28	20.19	20.05				
10	64QAM	50	0	20.30	20.33	20.29				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.25	23.27	22.98				
5	QPSK	1	12	23.30	23.02	23.02	24.5	0		
5	QPSK	1	24	23.17	23.00	23.03				
5	QPSK	12	0	22.32	22.34	22.25				
5	QPSK	12	7	22.28	22.37	22.26	23.5	1		
5	QPSK	12	13	22.34	22.22	22.16				
5	QPSK	25	0	22.33	22.29	22.15				
5	16QAM	1	0	22.15	22.17	22.15				
5	16QAM	1	12	22.32	22.21	22.20	23.5	1		
5	16QAM	1	24	22.31	22.53	22.45				
5	16QAM	12	0	21.28	21.29	21.33				
5	16QAM	12	7	21.83	21.48	21.21	22.5	2		
5	16QAM	12	13	21.41	21.22	21.25				
5	64QAM	25	0	21.47	21.29	21.22				
5	64QAM	25	0	21.38	21.27	21.53				
5	64QAM	1	12	21.41	21.34	21.21	22.5	2		
5	64QAM	1	24	21.36	21.40	21.30				
5	64QAM	12	0	20.43	20.42	20.35				
5	64QAM	12	7	20.26	20.31	20.23	21.5	3		
5	64QAM	12	13	20.33	20.11	20.32				
5	64QAM	25	0	20.34	20.20	20.23				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.17	23.30	23.09				
3	QPSK	1	8	23.15	23.24	23.12	24.5	0		
3	QPSK	1	14	23.24	23.18	23.06				
3	QPSK	8	0	22.18	22.21	22.04				
3	QPSK	8	4	22.18	22.22	21.99	23.5	1		
3	QPSK	8	7	22.10	22.08	22.01				
3	QPSK	15	0	22.14	22.13	21.98				
3	16QAM	1	0	22.38	22.49	22.17				
3	16QAM	1	8	22.19	22.40	22.18	23.5	1		
3	16QAM	1	14	22.13	22.50	22.22				
3	16QAM	8	0	21.15	21.35	21.19				
3	16QAM	8	4	21.14	21.20	21.16	22.5	2		
3	16QAM	8	7	21.30	21.12	21.25				
3	16QAM	15	0	21.20	21.13	21.22				
3	64QAM	1	0	21.31	21.39	21.27				
3	64QAM	1	8	21.36	21.17	21.26	22.5	2		
3	64QAM	1	14	21.25	21.38	21.09				
3	64QAM	8	0	20.30	20.20	20.11				
3	64QAM	8	4	20.03	20.13	20.05	21.5	3		
3	64QAM	8	7	20.31	20.16	20.09				
3	64QAM	15	0	20.18	20.21	19.95				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.06	23.26	22.86				
1.4	QPSK	1	3	23.03	23.06	22.98	24.5	0		
1.4	QPSK	1	5	22.95	23.07	22.85				
1.4	QPSK	3	0	23.09	23.19	23.02				
1.4	QPSK	3	1	23.15	23.20	23.30				
1.4	QPSK	3	3	23.16	22.97	22.91	23.5	1		
1.4	QPSK	6	0	22.26	22.18	22.06				
1.4	16QAM	1	0	22.41	22.35	22.07				
1.4	16QAM	1	3	22.28	22.32	22.23	23.5	1		
1.4	16QAM	1	5	22.21	22.24	22.14				
1.4	16QAM	3	0	22.32	22.25	21.98				
1.4	16QAM	3	1	22.21	21.95	22.08				
1.4	16QAM	3	3	22.18	22.13	22.05	22.5	2		
1.4	16QAM	6	0	21.15	21.34	21.09				
1.4	64QAM	1	0	21.35	21.29	21.15				
1.4	64QAM	1	3	21.23	21.40	21.27	22.5	2		
1.4	64QAM	1	5	21.19	21.25	21.32				
1.4	64QAM	3	0	21.33	21.38	21.20				
1.4	64QAM	3	1	21.25	21.24	21.21				
1.4	64QAM	3	3	21.30	21.21	21.10	21.5	3		
1.4	64QAM	6	0	20.15	20.29	20.23				

Band 4 ANTO Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dB			



Band 7 ANTO Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2510	2535	2550				
20	QPSK	1	0	24.18	24.39	24.34				
20	QPSK	1	49	24.21	24.30	24.17	25.5	0		
20	QPSK	1	99	24.26	24.32	24.35				
20	QPSK	50	0	23.19	23.56	23.27				
20	QPSK	50	24	23.49	23.45	23.44	24.5	1		
20	QPSK	50	50	23.52	23.48	23.44				
20	QPSK	100	0	23.35	23.45	23.33				
20	16QAM	1	0	23.22	23.39	23.41				
20	16QAM	1	49	23.28	23.33	23.20	24.5	1		
20	16QAM	1	99	23.36	23.33	23.18				
20	16QAM	50	0	22.41	22.26	22.25				
20	16QAM	50	24	22.46	22.38	22.37				
20	16QAM	50	50	22.43	22.49	22.48	23.5	2		
20	16QAM	100	0	22.39	22.36	22.41				
20	64QAM	1	0	22.24	22.37	22.34				
20	64QAM	1	49	22.55	22.42	22.40	23.5	2		
20	64QAM	1	99	22.57	22.27	22.31				
20	64QAM	50	0	21.34	21.29	21.31				
20	64QAM	50	24	21.49	21.36	21.40	22.5	3		
20	64QAM	50	50	21.51	21.47	21.41				
20	64QAM	100	0	21.40	21.39	21.36				
Channel										
Frequency (MHz)				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	24.11	24.21	24.05				
15	QPSK	1	37	23.99	24.27	24.22	25.5	0		
15	QPSK	1	74	24.25	24.33	24.22				
15	QPSK	36	0	23.21	23.31	23.32				
15	QPSK	36	20	23.35	23.34	23.22				
15	QPSK	36	39	23.40	23.29	23.34	24.5	1		
15	QPSK	75	0	23.34	23.36	23.34				
15	16QAM	1	0	22.26	22.30	22.38				
15	16QAM	1	37	22.19	22.28	22.08	24.5	1		
15	16QAM	1	74	22.50	22.33	22.01				
15	16QAM	36	0	22.29	22.23	22.29				
15	16QAM	36	20	22.40	22.36	22.33	23.5	2		
15	16QAM	36	39	22.30	22.36	22.35				
15	16QAM	75	0	22.28	22.30	22.38				
15	64QAM	1	0	22.16	22.26	22.13				
15	64QAM	1	37	22.39	22.24	22.19	23.5	2		
15	64QAM	1	74	22.31	22.05	22.09				
15	64QAM	36	0	21.24	21.26	21.28				
15	64QAM	36	20	21.32	21.39	21.26	22.5	3		
15	64QAM	36	39	21.40	21.31	21.33				
15	64QAM	75	0	21.39	21.35	21.27				
Channel										
Frequency (MHz)				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	24.29	24.10	24.11				
10	QPSK	1	25	24.05	24.25	24.36	25.5	0		
10	QPSK	1	49	24.11	24.25	24.26				
10	QPSK	25	0	23.28	23.09	23.19				
10	QPSK	25	12	23.05	23.18	23.15	24.5	1		
10	QPSK	25	25	23.04	23.18	23.08				
10	QPSK	50	0	23.23	23.06	23.00				
10	16QAM	1	0	23.05	23.17	23.02				
10	16QAM	1	25	23.19	23.02	23.08	24.5	1		
10	16QAM	1	49	23.16	23.17	23.05				
10	16QAM	25	0	22.05	22.18	22.08				
10	16QAM	25	12	22.23	22.20	22.25	23.5	2		
10	16QAM	25	25	22.31	22.13	22.34				
10	16QAM	50	0	22.36	22.31	22.42				
10	64QAM	1	0	22.11	22.18	22.24				
10	64QAM	1	25	22.17	22.20	22.10	23.5	2		
10	64QAM	1	49	22.14	22.29	22.06				
10	64QAM	25	0	21.05	21.08	21.19				
10	64QAM	25	12	21.36	21.02	21.18	22.5	3		
10	64QAM	25	25	21.23	21.06	21.16				
10	64QAM	50	0	21.08	21.38	21.08				
Channel										
Frequency (MHz)				3	21100	21425	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	24.32	24.27	24.25				
5	QPSK	1	12	24.13	24.37	24.23	25.5	0		
5	QPSK	1	24	24.35	24.32	24.36				
5	QPSK	12	0	23.28	23.31	23.24				
5	QPSK	12	7	23.32	23.31	23.23	24.5	1		
5	QPSK	12	13	23.45	23.41	23.45				
5	QPSK	25	0	23.33	23.34	23.38				
5	16QAM	1	0	23.20	23.37	23.25				
5	16QAM	1	12	23.15	23.28	23.23	24.5	1		
5	16QAM	1	24	23.26	23.05	23.17				
5	16QAM	12	0	22.29	22.29	22.13				
5	16QAM	12	7	22.33	22.31	22.45	23.5	2		
5	16QAM	12	13	22.40	22.44	22.46				
5	16QAM	25	0	22.44	22.38	22.37				
5	64QAM	1	0	22.00	22.18	22.06				
5	64QAM	1	12	22.29	22.24	22.12	23.5	2		
5	64QAM	1	24	22.46	22.15	22.05				
5	64QAM	12	0	21.18	21.26	21.25				
5	64QAM	12	7	21.31	21.45	21.26	22.5	3		
5	64QAM	12	13	21.40	21.46	21.40				
5	64QAM	25	0	21.39	21.31	21.33				

Band 12 ANTO Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.57	24.69	24.64				
10	QPSK	1	25	24.61	24.64	24.51	25.5	0		
10	QPSK	1	49	24.67	24.65	24.61				
10	QPSK	25	0	23.69	23.89	23.68				
10	QPSK	25	12	23.74	23.71	23.80	24.5	1		
10	QPSK	25	25	23.53	23.86	23.81				
10	QPSK	50	0	23.83	23.86	23.80				
10	16QAM	1	0	23.75	23.73	23.73				
10	16QAM	1	25	23.85	23.79	23.61	24.5	1		
10	16QAM	1	49	23.77	23.73	23.72				
10	16QAM	25	0	22.82	22.72	22.69				
10	16QAM	25	12	22.88	22.69	22.71	23.5	2		
10	16QAM	25	25	22.90	22.85	22.92				
10	16QAM	50	0	22.92	22.86	22.74				
10	64QAM	1	0	22.87	22.60	22.66				
10	64QAM	1	25	22.61	22.57	22.77	23.5	2		
10	64QAM	1	49	22.64	22.70	22.92				
10	64QAM	25	0	21.85	21.68	21.75				
10	64QAM	25	12	21.87	21.75	21.68	22.5	3		
10	64QAM	25	25	21.88	21.62	21.77				
10	64QAM	50	0	21.90	21.80	21.63				
Channel										
Frequency (MHz)				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.67	24.62	24.64				
5	QPSK	1	12	24.60	24.58	24.44	25.5	0		
5	QPSK	1	24	24.61	24.52	24.60				
5	QPSK	12	0	23.80	23.61	23.64				
5	QPSK	12	7	23.71	23.71	23.71	24.5	1		
5	QPSK	12	13	23.64	23.60	23.66				
5	QPSK	25	0	23.77	23.63	23.59				
5	16QAM	1	0	22.73	22.77	22.66				
5	16QAM	1	12	22.48	23.75	23.71	24.5	1		
5	16QAM	1	24	23.61	23.68	23.54				
5	16QAM	12	0	22.84	22.64	22.62				
5	16QAM	12	7	22.89	22.89	22.80	23.5	2		
5	16QAM	12	13	22.61	22.64</					



Band 17 ANTO Default Power									
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				23780	23790	23800			
Frequency (MHz)				700	710	711			
10	QPSK	1	0	24.50	24.68	24.42			
10	QPSK	1	25	24.45	24.57	24.65	25.5	0	
10	QPSK	1	49	24.33	24.40	24.62			
10	QPSK	25	0	23.59	23.92	23.68			
10	QPSK	25	12	23.77	23.69	23.70	24.5	1	
10	QPSK	25	25	23.67	23.63	23.70			
10	QPSK	50	0	23.79	23.90	23.58			
10	16QAM	1	0	23.85	23.77	23.81			
10	16QAM	1	25	23.82	23.86	23.84	24.5	1	
10	16QAM	1	49	23.72	23.84	23.63			
10	16QAM	25	0	22.66	22.59	22.77			
10	16QAM	25	12	22.79	22.68	22.77	23.5	2	
10	16QAM	25	25	22.78	22.69	22.72			
10	16QAM	50	0	22.70	22.65	22.74			
10	64QAM	1	0	22.85	22.76	22.80			
10	64QAM	1	25	22.81	23.14	22.90	23.5	2	
10	64QAM	1	49	22.83	22.75	22.87			
10	64QAM	25	0	21.59	21.64	21.66			
10	64QAM	25	12	21.86	21.72	21.72	22.5	3	
10	64QAM	25	25	21.78	21.79	21.74			
10	64QAM	50	0	21.72	21.68	21.61			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.67	24.67	24.56	25.5	0	
5	QPSK	1	12	24.39	24.59	24.58			
5	QPSK	1	24	24.62	24.56	24.66			
5	QPSK	12	0	23.62	23.77	23.70			
5	QPSK	12	7	23.66	23.64	23.67	24.5	1	
5	QPSK	12	13	23.73	23.70	23.74			
5	QPSK	25	0	23.64	23.70	23.60			
5	16QAM	1	0	23.88	23.75	23.70	24.5	1	
5	16QAM	1	12	23.87	23.75	24.14			
5	16QAM	1	24	23.84	24.16	23.98			
5	16QAM	12	0	22.80	22.77	22.67			
5	16QAM	12	7	22.85	22.57	22.83	23.5	2	
5	16QAM	12	13	22.70	22.57	22.77			
5	16QAM	25	0	22.80	22.83	22.71			
5	64QAM	1	12	22.69	22.76	22.73	23.5	2	
5	64QAM	1	24	22.70	22.55	22.64			
5	64QAM	12	0	21.80	21.75	21.62			
5	64QAM	12	7	21.62	21.72	21.89	22.5	3	
5	64QAM	12	13	21.66	21.54	21.63			
5	64QAM	25	0	21.57	21.61	21.66			

Band 26 ANTO Default Power									
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				26762	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	24.34	24.44	24.31			
15	QPSK	1	37	24.39	24.37	24.29	25.5	0	
15	QPSK	1	74	24.37	24.33	24.18			
15	QPSK	36	0	23.44	23.50	23.37			
15	QPSK	36	20	23.42	23.46	23.44	24.5	1	
15	QPSK	36	39	23.48	23.46	23.38			
15	QPSK	75	0	23.42	23.52	23.31			
15	16QAM	1	0	23.77	23.67	23.64			
15	16QAM	1	37	23.70	23.86	23.58	24.5	1	
15	16QAM	1	74	23.75	23.66	23.48			
15	16QAM	36	0	22.45	22.43	22.38			
15	16QAM	36	20	22.50	22.48	22.41	23.5	2	
15	16QAM	36	39	22.46	22.47	22.39			
15	16QAM	75	0	22.52	22.41	22.38			
15	64QAM	1	0	22.80	22.85	22.50			
15	64QAM	1	37	22.65	22.60	22.50	23.5	2	
15	64QAM	1	74	22.58	22.54	22.37			
15	64QAM	36	0	21.48	21.44	21.37			
15	64QAM	36	20	21.51	21.47	21.40	22.5	3	
15	64QAM	36	39	21.50	21.47	21.38			
15	64QAM	75	0	21.52	21.42	21.34			
Channel				26740	26865	26960	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.35	24.33	24.20	25.5	0	
10	QPSK	1	25	24.33	24.25	24.17			
10	QPSK	1	49	24.27	24.20	24.12			
10	QPSK	25	0	23.45	23.37	23.31			
10	QPSK	25	12	23.45	23.36	23.32	24.5	1	
10	QPSK	25	25	23.42	23.40	23.33			
10	QPSK	50	0	23.46	23.34	23.30			
10	16QAM	1	0	23.68	23.61	23.61	24.5	1	
10	16QAM	1	25	23.62	23.63	23.53			
10	16QAM	1	49	23.63	23.61	23.49			
10	16QAM	25	0	22.50	22.39	22.31			
10	16QAM	25	12	22.47	22.40	22.35	23.5	2	
10	16QAM	25	25	22.42	22.43	22.35			
10	16QAM	50	0	22.47	22.37	22.28			
10	64QAM	1	0	22.57	22.60	22.48	23.5	2	
10	64QAM	1	25	22.56	22.46	22.38			
10	64QAM	1	49	22.50	22.50	22.39			
10	64QAM	25	0	21.49	21.39	21.31	22.5	3	
10	64QAM	25	12	21.47	21.35	21.29			
10	64QAM	25	25	21.40	21.41	21.31			
10	64QAM	50	0	21.44	21.36	21.31			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.33	24.37	24.22	25.5	0	
5	QPSK	1	12	24.40	24.32	24.20			
5	QPSK	1	24	24.32	24.27	24.09			
5	QPSK	12	0	23.46	23.34	23.29	24.5	1	
5	QPSK	12	7	23.49	23.42	23.28			
5	QPSK	12	13	23.43	23.36	23.24			
5	QPSK	25	0	23.46	23.33	23.26			
5	16QAM	1	0	23.60	23.58	23.52	24.5	1	
5	16QAM	1	12	23.64	23.67	23.54			
5	16QAM	1	24	23.66	23.58	23.50			
5	16QAM	12	0	22.60	22.37	22.31	23.5	2	
5	16QAM	12	7	22.51	22.43	22.30			
5	16QAM	12	13	22.47	22.41	22.27			
5	16QAM	25	0	22.49	22.34	22.28			
5	64QAM	1	0	22.58	22.51	22.45	23.5	2	
5	64QAM	1	12	22.56	22.42	22.39			
5	64QAM	1	24	22.54	22.49	22.38			
5	64QAM	12	0	21.53	21.38	21.33	22.5	3	
5	64QAM	12	7	21.48	21.43	21.29			
5	64QAM	12	13	21.45	21.41	21.29			
5	64QAM	25	0	21.39	21.30	21.27			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.29	24.34	24.14	25.5	0	
3	QPSK	1	8	24.33	24.31	24.20			
3	QPSK	1	14	24.37	24.27	23.89			
3	QPSK	8	0	23.40	23.29	23.27			
3	QPSK	8	4	23.42	23.45	23.31	24.5	1	
3	QPSK	8	7	23.45	23.37	23.24			
3	QPSK	15	0	23.44	23.40	23.28			
3	16QAM	1	0	23.53	23.60	23.52	24.5	1	
3	16QAM	1	8	23.61	23.67	23.54			
3	16QAM	1	14	23.70	23.61	23.65			
3	16QAM	8	0	22.50	22.37	22.33			
3	16QAM	8	4	22.55	22.51	22.35	23.5	2	
3	16QAM	8	7	22.49	22.42	22.28			
3	16QAM	15	0	22.50	22.43	22.30			
3	64QAM	1	0	22.56	22.48	22.39	23.5	2	
3	64QAM	1	8	22.62	22.55	22.44			
3	64QAM	1	14	22.55	22.57	22.41			
3	64QAM	8	0	21.51	21.36	21.31	22.5	3	
3	64QAM	8	4	21.50	21.44	21.31			
3	64QAM	8	7	21.50	21.44	21.38			
3	64QAM	15	0	21.48	21.38	21.25			
Channel									



Band 41 (2.6G Band) ANT0 Default

BW [MHz]	Modulation	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						40340	40500	40770	41090	25.5	0
Frequency (MHz)						2555	2581	2608	2640		
20	QPSK	20	QPSK	1	0	24.10	24.02	24.17	24.04	24.5	1
20	QPSK	20	QPSK	1	49	24.06	24.07	24.11	24.12		
20	QPSK	20	QPSK	1	99	24.02	23.97	24.12	23.98		
20	QPSK	20	QPSK	50	0	23.17	23.17	23.30	23.23		
20	QPSK	20	QPSK	50	24	23.21	23.20	23.14	23.11	24.5	1
20	QPSK	20	QPSK	50	50	23.26	23.17	23.25	23.14		
20	QPSK	20	QPSK	100	0	23.29	23.20	23.32	23.18		
20	16QAM	20	16QAM	1	0	23.18	23.19	23.34	23.29		
20	16QAM	20	16QAM	1	49	23.15	23.14	23.26	23.18	24.5	1
20	16QAM	20	16QAM	1	99	23.18	23.10	23.27	23.21		
20	16QAM	20	16QAM	50	0	22.14	22.16	22.26	22.21		
20	16QAM	20	16QAM	50	24	22.27	22.28	22.19	22.17		
20	16QAM	20	16QAM	50	50	22.34	22.25	22.30	22.30	23.5	2
20	16QAM	20	16QAM	100	0	22.27	22.20	22.29	22.24		
20	64QAM	20	64QAM	1	0	22.07	22.05	22.22	22.16		
20	64QAM	20	64QAM	1	49	22.11	21.99	22.02	22.02		
20	64QAM	20	64QAM	1	99	22.16	21.98	22.13	22.17	23.5	2
20	64QAM	20	64QAM	50	0	21.08	20.99	21.23	21.13		
20	64QAM	20	64QAM	50	24	21.22	21.21	21.14	21.11		
20	64QAM	20	64QAM	50	50	21.28	21.19	21.25	21.12		
20	64QAM	20	64QAM	100	0	21.30	21.32	21.34	21.17	22.5	3
Channel						40215	40495	40785	41115		
Frequency (MHz)						2552.5	2580.5	2609.5	2642.5	25.5	0
15	QPSK	15	QPSK	1	0	24.04	23.86	24.04	23.96		
15	QPSK	15	QPSK	1	37	23.93	23.91	23.98	23.99	24.5	1
15	QPSK	15	QPSK	1	74	24.07	23.87	24.11	23.91		
15	QPSK	15	QPSK	36	0	23.01	23.08	23.08	23.05		
15	QPSK	15	QPSK	36	20	23.14	23.05	23.18	22.97		
15	QPSK	15	QPSK	36	39	23.19	23.07	23.19	23.10	24.5	1
15	QPSK	15	QPSK	75	0	23.16	23.16	23.18	23.08		
15	16QAM	15	16QAM	1	0	23.19	23.10	23.27	23.19		
15	16QAM	15	16QAM	1	37	23.08	23.07	23.09	23.03		
15	16QAM	15	16QAM	1	74	23.13	23.03	23.17	23.14	23.5	2
15	16QAM	15	16QAM	36	0	22.05	21.92	22.10	22.06		
15	16QAM	15	16QAM	36	20	22.16	22.08	22.18	22.08		
15	16QAM	15	16QAM	36	39	22.11	22.10	22.12	22.10		
15	16QAM	15	16QAM	75	0	22.23	22.15	22.15	22.03	23.5	2
15	64QAM	15	64QAM	1	0	22.15	22.00	22.17	21.98		
15	64QAM	15	64QAM	1	37	22.07	21.94	21.99	21.91		
15	64QAM	15	64QAM	1	74	22.02	21.99	22.03	21.92		
15	64QAM	15	64QAM	36	0	21.08	21.06	21.12	21.09	22.5	3
15	64QAM	15	64QAM	36	20	21.20	21.13	21.22	21.03		
15	64QAM	15	64QAM	36	39	21.15	21.13	21.16	21.15		
15	64QAM	15	64QAM	75	0	21.13	21.16	21.16	21.04		
Channel						40190	40490	40790	41140	25.5	0
Frequency (MHz)						2560	2580	2610	2645		
10	QPSK	10	QPSK	1	0	24.02	23.90	24.04	23.90	24.5	1
10	QPSK	10	QPSK	1	25	24.00	23.85	23.99	23.84		
10	QPSK	10	QPSK	1	49	24.07	23.98	24.03	24.02		
10	QPSK	10	QPSK	25	0	23.07	23.11	23.06	22.90		
10	QPSK	10	QPSK	25	12	23.09	23.08	23.04	23.07	24.5	1
10	QPSK	10	QPSK	25	25	23.05	23.11	23.08	23.10		
10	QPSK	10	QPSK	50	0	23.13	23.05	23.18	23.10		
10	16QAM	10	16QAM	1	0	23.13	23.01	23.22	23.06		
10	16QAM	10	16QAM	1	25	23.10	22.83	22.87	23.00	23.5	2
10	16QAM	10	16QAM	1	49	23.05	22.95	23.07	23.05		
10	16QAM	10	16QAM	25	0	22.07	21.92	21.95	22.04		
10	16QAM	10	16QAM	25	12	22.18	22.19	22.11	22.14		
10	16QAM	10	16QAM	25	25	22.13	22.12	22.13	22.17	23.5	2
10	16QAM	10	16QAM	50	0	22.22	22.25	22.06	22.08		
10	64QAM	10	64QAM	1	0	21.93	21.99	21.91	21.94		
10	64QAM	10	64QAM	1	25	21.82	21.88	22.03	21.78		
10	64QAM	10	64QAM	1	49	21.94	21.98	21.95	21.94	22.5	3
10	64QAM	10	64QAM	25	0	21.03	21.07	21.08	21.02		
10	64QAM	10	64QAM	25	12	21.14	21.04	21.06	20.98		
10	64QAM	10	64QAM	25	25	21.10	20.99	21.10	21.03		
10	64QAM	10	64QAM	50	0	20.96	21.00	21.10	20.92		
Channel						40165	40485	40805	41165	25.5	0
Frequency (MHz)						2547.5	2579.5	2611.5	2647.5		
5	QPSK	5	QPSK	1	0	23.81	23.81	24.11	24.07	24.5	1
5	QPSK	5	QPSK	1	12	23.90	24.01	24.07	24.02		
5	QPSK	5	QPSK	1	24	24.01	24.13	23.88	23.90		
5	QPSK	5	QPSK	12	0	23.12	23.26	23.28	23.22		
5	QPSK	5	QPSK	12	7	23.32	23.27	23.37	23.30	24.5	1
5	QPSK	5	QPSK	12	13	23.26	23.12	23.29	23.22		
5	QPSK	5	QPSK	25	0	23.24	23.25	23.28	23.20		
5	16QAM	5	16QAM	1	0	23.16	23.16	23.25	23.10		
5	16QAM	5	16QAM	1	12	23.20	23.48	23.23	23.50	23.5	2
5	16QAM	5	16QAM	1	24	23.32	23.40	23.22	23.43		
5	16QAM	5	16QAM	12	0	22.07	22.12	22.22	22.15		
5	16QAM	5	16QAM	12	7	22.27	22.13	22.19	22.23		
5	16QAM	5	16QAM	12	13	22.30	22.27	22.31	22.33	23.5	2
5	16QAM	5	16QAM	25	0	22.33	22.28	22.37	22.29		
5	64QAM	5	64QAM	1	0	22.01	22.06	22.26	22.19		
5	64QAM	5	64QAM	1	12	22.18	22.18	22.22	22.23		
5	64QAM	5	64QAM	1	24	22.33	22.17	22.35	22.17	22.5	3
5	64QAM	5	64QAM	12	0	21.27	21.21	21.30	21.23		
5	64QAM	5	64QAM	12	7	21.29	21.23	21.41	21.33		
5	64QAM	5	64QAM	12	13	21.30	21.18	21.31	21.24		
5	64QAM	5	64QAM	25	0	21.28	21.22	21.30	21.14		



ANT4 Default Power							
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	128	189	251		128	189	251
TX Channel	824.2	838.4	848.8	824.2	838.4	848.8	
Frequency (MHz)							
GSM 1 Tx slot	32.14	32.27	32.11	33.50	23.14	23.27	23.11
GPRS 1 Tx slot	32.19	32.24	31.97	33.50	23.19	23.24	22.97
GPRS 2 Tx slots	29.66	29.59	29.46	30.50	23.66	23.59	23.46
GPRS 3 Tx slots	27.64	27.44	27.85	28.50	23.38	23.18	23.59
GPRS 4 Tx slots	26.48	26.54	26.45	27.50	23.48	23.54	23.45
EDGE 1 Tx slot	26.11	26.00	25.97	27.50	17.11	17.00	16.97
EDGE 2 Tx slots	23.36	23.54	23.16	24.50	17.36	17.54	17.16
EDGE 3 Tx slots	21.47	21.55	21.29	23.00	17.21	17.29	17.03
EDGE 4 Tx slots	20.09	20.40	20.13	21.50	17.09	17.40	17.13

ANT4 Default Power							
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)		
	512	661	810		512	661	810
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8	
Frequency (MHz)							
GSM 1 Tx slot	28.99	28.98	28.84	30.50	19.99	19.98	19.84
GPRS 1 Tx slot	29.04	28.89	28.79	30.50	20.04	19.89	19.79
GPRS 2 Tx slots	26.39	26.52	26.51	27.50	20.39	20.52	20.51
GPRS 3 Tx slots	24.31	24.38	24.04	25.50	20.05	20.12	19.78
GPRS 4 Tx slots	22.87	23.10	22.81	24.50	19.87	20.10	19.81
EDGE 1 Tx slot	24.76	24.91	24.63	26.50	15.76	15.91	15.63
EDGE 2 Tx slots	22.18	22.25	22.24	24.00	16.18	16.25	16.24
EDGE 3 Tx slots	19.51	19.57	19.54	21.50	15.25	15.31	15.28
EDGE 4 Tx slots	19.29	19.04	19.40	20.50	16.29	16.04	16.40

Band	ANT4 Default Power				ANT4 Default Power			ANT4 Default Power			Tune-up Limit (dBm)		
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			WCDMA V					
TX Channel	9262	9400	9538		1312	1413	1513	4132	4182	4233			
Rx Channel	9662	9800	9938	1337	1638	1738	4357	4407	4458				
Frequency (MHz)	1932.4	1930	1907.6	1712.4	1722.3	1752.3	826.4	838.1	846.6				
3GPP Rel 99	AMR 12.2kpbs	23.28	23.34	23.19	24.50	23.75	23.78	23.80	24.50	24.45	24.46	24.42	25.50
3GPP Rel 99	RMC 12.2kpbs	23.31	23.36	23.20	24.50	23.73	23.83	23.81	24.50	24.44	24.47	24.46	25.50
3GPP Rel 6	HSDPA Subtest-1	22.33	22.38	22.21	23.50	22.83	22.89	22.90	23.50	23.46	23.47	23.46	24.50
3GPP Rel 6	HSDPA Subtest-2	22.35	22.36	22.23	23.50	22.87	22.89	22.92	23.50	23.46	23.45	23.50	24.50
3GPP Rel 6	HSDPA Subtest-3	21.83	21.85	21.71	23.00	22.35	22.40	22.06	23.00	22.91	22.95	23.00	24.00
3GPP Rel 6	HSDPA Subtest-4	21.86	21.86	21.67	23.00	22.32	22.39	22.44	23.00	22.94	22.98	22.98	24.00
3GPP Rel 6	DC-HSDPA Subtest-1	22.36	22.48	22.11	23.50	22.85	22.83	22.84	23.50	23.40	23.37	23.52	24.50
3GPP Rel 6	DC-HSDPA Subtest-2	22.25	22.46	22.26	23.50	22.77	22.82	22.81	23.50	23.52	23.47	23.47	24.50
3GPP Rel 6	DC-HSDPA Subtest-3	21.78	21.90	21.65	23.00	22.37	22.36	22.01	23.00	22.87	22.95	23.01	24.00
3GPP Rel 6	DC-HSDPA Subtest-4	21.96	21.96	21.60	23.00	22.31	22.49	22.50	23.00	23.00	22.97	22.97	24.00
3GPP Rel 6	HSUPA Subtest-1	22.31	22.36	22.20	23.50	22.86	22.85	22.90	23.50	23.39	23.44	23.44	24.50
3GPP Rel 6	HSUPA Subtest-2	20.25	20.28	20.19	21.50	20.83	20.78	20.79	21.50	21.39	21.42	21.37	22.50
3GPP Rel 6	HSUPA Subtest-3	21.29	21.33	21.22	22.50	21.84	21.90	21.88	22.50	22.42	22.44	22.42	23.50
3GPP Rel 6	HSUPA Subtest-4	20.30	20.35	20.28	21.50	20.84	20.89	20.87	21.50	21.39	21.45	21.42	22.50
3GPP Rel 6	HSUPA Subtest-5	22.30	22.25	22.20	23.50	22.80	22.85	22.90	23.50	23.40	23.40	23.40	24.50



Band 2 ANT4 Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.21	22.53	22.27				
20	QPSK	1	49	22.31	22.41	22.36	23.5	0		
20	QPSK	1	99	22.26	22.21	22.17				
20	QPSK	50	0	21.37	21.38	21.26				
20	QPSK	50	24	21.25	21.21	21.21	22.5	1		
20	QPSK	50	50	21.29	21.29	21.26				
20	QPSK	100	0	21.30	21.39	21.22				
20	16QAM	1	0	21.45	21.65	21.38				
20	16QAM	1	49	21.61	21.45	21.52	22.5	1		
20	16QAM	1	99	21.31	21.56	21.44				
20	16QAM	50	0	20.75	20.47	20.67				
20	16QAM	50	24	20.69	20.61	20.65	21.5	2		
20	16QAM	50	50	20.66	20.62	20.54				
20	16QAM	100	0	20.62	20.59	20.57				
20	64QAM	1	0	20.44	20.57	20.22				
20	64QAM	1	49	20.22	20.32	20.60	21.5	2		
20	64QAM	1	99	20.29	20.25	20.45				
20	64QAM	50	0	19.20	19.34	19.30				
20	64QAM	50	24	19.46	19.18	19.25	20.5	3		
20	64QAM	50	50	19.38	19.23	19.24				
20	64QAM	100	0	19.38	19.20	19.33				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.23	22.31	22.17				
15	QPSK	1	37	22.33	22.22	22.19	23.5	0		
15	QPSK	1	74	22.05	22.13	22.04				
15	QPSK	36	0	21.43	21.25	21.43				
15	QPSK	36	20	21.36	21.19	21.29	22.5	1		
15	QPSK	36	39	21.26	21.20	21.26				
15	QPSK	75	0	21.30	21.23	21.30				
15	16QAM	1	0	21.49	21.47	21.38				
15	16QAM	1	37	21.25	21.56	21.30	22.5	1		
15	16QAM	1	74	21.30	21.41	21.34				
15	16QAM	36	0	20.34	20.35	20.31				
15	16QAM	36	20	20.46	20.38	20.35	21.5	2		
15	16QAM	36	39	20.29	20.25	20.20				
15	16QAM	75	0	20.60	20.75	20.41				
15	64QAM	1	0	20.40	20.32	20.45				
15	64QAM	1	37	20.33	20.10	20.10	21.5	2		
15	64QAM	1	74	20.27	20.35	20.29				
15	64QAM	36	0	19.39	19.29	19.35				
15	64QAM	36	20	19.37	19.16	19.26	20.5	3		
15	64QAM	36	39	19.28	19.25	19.27				
15	64QAM	75	0	19.45	19.21	19.25				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.36	22.42	22.41				
10	QPSK	1	25	22.35	22.34	22.46	23.5	0		
10	QPSK	1	49	22.51	22.16	22.45				
10	QPSK	25	0	21.49	21.41	21.38				
10	QPSK	25	12	21.33	21.45	21.41	22.5	1		
10	QPSK	25	25	21.43	21.26	21.38				
10	QPSK	50	0	21.40	21.43	21.43				
10	16QAM	1	0	21.41	21.38	21.28				
10	16QAM	1	25	21.17	21.36	21.33	22.5	1		
10	16QAM	1	49	21.15	21.13	21.30				
10	16QAM	25	0	20.37	20.31	20.48				
10	16QAM	25	12	20.47	20.34	20.39	21.5	2		
10	16QAM	25	25	20.48	20.46	20.32				
10	16QAM	50	0	20.53	20.38	20.37				
10	64QAM	1	0	20.48	20.45	20.55				
10	64QAM	1	25	20.40	20.57	20.65	21.5	2		
10	64QAM	1	49	20.30	20.50	20.35				
10	64QAM	25	0	19.46	19.46	19.33				
10	64QAM	25	12	19.54	19.38	19.44	20.5	3		
10	64QAM	25	25	19.40	19.37	19.39				
10	64QAM	50	0	19.47	19.40	19.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.32	22.31	22.12				
5	QPSK	1	12	22.42	22.19	22.22	23.5	0		
5	QPSK	1	24	22.42	22.19	22.22				
5	QPSK	12	0	21.49	21.53	21.40				
5	QPSK	12	7	21.41	21.51	21.41	22.5	1		
5	QPSK	12	13	21.35	21.37	21.27				
5	QPSK	25	0	21.56	21.35	21.29				
5	16QAM	1	0	21.51	21.49	21.44				
5	16QAM	1	12	21.49	21.39	21.59	22.5	1		
5	16QAM	1	24	21.24	21.51	21.59				
5	16QAM	12	0	20.49	20.54	20.43				
5	16QAM	12	7	20.62	20.47	20.57	21.5	2		
5	16QAM	12	13	20.43	20.43	20.28				
5	16QAM	25	0	20.60	20.48	20.30				
5	64QAM	1	0	19.97	20.18	20.12				
5	64QAM	1	12	19.92	20.14	19.93	21.5	2		
5	64QAM	1	24	20.00	19.93	20.00				
5	64QAM	12	0	19.54	19.99	19.40				
5	64QAM	12	7	19.43	19.49	19.41	20.5	3		
5	64QAM	12	13	19.48	19.38	19.34				
5	64QAM	25	0	19.36	19.37	19.27				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.42	22.48	22.40				
3	QPSK	1	8	22.32	22.28	22.48	23.5	0		
3	QPSK	1	14	22.25	22.24	22.14				
3	QPSK	8	0	21.59	21.48	21.50				
3	QPSK	8	4	21.67	21.47	21.38	22.5	1		
3	QPSK	8	7	21.41	21.38	21.25				
3	QPSK	15	0	21.44	21.50	21.37				
3	16QAM	1	0	21.45	21.50	21.36				
3	16QAM	1	8	21.49	21.44	21.68	22.5	1		
3	16QAM	1	14	21.69	21.69	21.51				
3	16QAM	8	0	20.71	20.45	20.47				
3	16QAM	8	4	20.53	20.67	20.35	21.5	2		
3	16QAM	8	7	20.52	20.49	20.35				
3	16QAM	15	0	20.46	20.68	20.34				
3	64QAM	1	0	20.81	20.65	20.34				
3	64QAM	1	8	20.29	20.64	20.50	21.5	2		
3	64QAM	1	14	20.49	20.37	20.42				
3	64QAM	8	0	19.39	19.52	19.44				
3	64QAM	8	4	19.43	19.48	19.12	20.5	3		
3	64QAM	8	7	19.49	19.36	19.41				
3	64QAM	15	0	19.40	19.35	19.44				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.04	22.35	22.15				
1.4	QPSK	1	3	22.38	22.32	22.24	23.5	0		
1.4	QPSK	1	5	22.19	22.04	22.25				
1.4	QPSK	3	0	22.24	22.33	22.26				
1.4	QPSK	3	1	22.28	22.22	22.30	24.5	0		
1.4	QPSK	3	3	22.28	22.19	22.06				
1.4	QPSK	6	0	21.38	21.42	21.31	22.5	1		
1.4	16QAM	1	0	21.50	21.30	21.22				
1.4	16QAM	1	3	21.50	21.25	21.23				
1.4	16QAM	1	5	21.20	21.39	21.20	22.5	1		
1.4	16QAM	3	0	21.46	21.49	21.23				
1.4	16QAM	3	1	21.55	21.34	21.19				
1.4	16QAM	3	3	21.33	21.40	21.43	21.5	2		
1.4	64QAM	1	0	20.40	20.47	20.27				
1.4	64QAM	1	3	20.28	20.27	20.33				
1.4	64QAM	1	5	20.28	20.39	20.15	21.5	2		
1.4	64QAM	3	0	20.58	20.39	20.47				
1.4	64QAM	3	1	20.49	20.58	20.30				
1.4	64QAM	3	3	20.42	20.21	20.20	20.5	3		
1.4	64QAM	6	0	19.09	19.26	19.30				

Band 4 ANT4 Default Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.</					



Band 7 ANT4 Default Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	22.56	22.67	22.35				
20	QPSK	1	49	22.35	22.46	22.34	23.5	0		
20	QPSK	1	99	22.38	22.48	22.42				
20	QPSK	50	0	21.38	21.65	21.42				
20	QPSK	50	24	21.46	21.46	21.56	22.5	1		
20	QPSK	50	50	21.47	21.55	21.49				
20	QPSK	100	0	21.45	21.52	21.40				
20	16QAM	1	0	21.71	21.79	21.83				
20	16QAM	1	49	21.91	21.97	21.61	22.5	1		
20	16QAM	1	99	21.98	21.75	21.63				
20	16QAM	50	0	20.40	20.49	20.43				
20	16QAM	50	24	20.46	20.45	20.44	21.5	2		
20	16QAM	50	50	20.57	20.53	20.63				
20	16QAM	100	0	20.50	20.54	20.50				
20	64QAM	1	0	20.61	20.56	20.48				
20	64QAM	1	49	20.47	20.51	20.77	21.5	2		
20	64QAM	1	99	22.78	20.77	20.78				
20	64QAM	50	0	19.35	19.43	19.44				
20	64QAM	50	24	19.54	19.44	19.60	20.5	3		
20	64QAM	50	50	19.49	19.50	19.68				
20	64QAM	100	0	19.59	19.48	19.50				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	22.34	22.62	22.28	23.5	0		
15	QPSK	1	37	22.37	22.32	22.56				
15	QPSK	1	74	22.44	22.45	22.43				
15	QPSK	36	0	21.47	21.58	21.50				
15	QPSK	36	20	21.48	21.46	21.51	22.5	1		
15	QPSK	36	39	21.49	21.51	21.58				
15	QPSK	75	0	21.56	21.49	21.54				
15	16QAM	1	0	21.49	21.79	21.72	22.5	1		
15	16QAM	1	37	21.52	21.48	21.49				
15	16QAM	1	74	21.59	21.50	21.70				
15	16QAM	36	0	20.50	20.40	20.56				
15	16QAM	36	20	20.46	20.43	20.59	21.5	2		
15	16QAM	36	39	20.57	20.55	20.62				
15	16QAM	75	0	20.51	20.46	20.51				
15	64QAM	1	0	20.45	20.59	20.73	21.5	2		
15	64QAM	1	37	20.58	20.64	20.81				
15	64QAM	1	74	20.47	20.75	20.62				
15	64QAM	36	0	19.47	19.50	19.53				
15	64QAM	36	20	19.45	19.52	19.49	20.5	3		
15	64QAM	36	39	19.55	19.56	19.49				
15	64QAM	75	0	19.44	19.39	19.50				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	22.32	22.65	22.40	23.5	0		
10	QPSK	1	25	22.46	22.51	22.66				
10	QPSK	1	49	22.43	22.58	22.52				
10	QPSK	25	0	21.64	21.56	21.63	22.5	1		
10	QPSK	1	1	21.53	21.67	21.69				
10	QPSK	25	25	21.57	21.75	21.82				
10	QPSK	50	0	21.56	21.55	21.64				
10	16QAM	1	0	21.59	21.55	21.44	22.5	1		
10	16QAM	1	25	21.76	21.65	21.53				
10	16QAM	1	49	21.72	21.70	21.68				
10	16QAM	25	0	20.56	20.56	20.42	21.5	2		
10	16QAM	25	12	20.59	20.46	20.28				
10	16QAM	25	25	20.52	20.40	20.60				
10	16QAM	50	0	20.59	20.56	20.70				
10	64QAM	1	0	20.47	20.55	20.31	21.5	2		
10	64QAM	1	25	20.57	20.34	20.54				
10	64QAM	1	49	20.45	20.36	20.56				
10	64QAM	25	0	19.55	19.45	19.65	20.5	3		
10	64QAM	25	12	19.66	19.72	19.76				
10	64QAM	25	25	19.65	19.71	19.78				
10	64QAM	50	0	19.57	19.43	19.70				
Channel										
Frequency (MHz)				20775	21100	21425				
5	QPSK	1	0	22.45	22.62	22.54	23.5	0		
5	QPSK	1	12	22.33	22.36	22.47				
5	QPSK	1	24	22.55	22.62	22.58				
5	QPSK	12	0	21.51	21.58	21.64	22.5	1		
5	QPSK	12	7	21.69	21.67	21.77				
5	QPSK	12	13	21.84	21.85	21.77				
5	QPSK	25	0	21.56	21.66	21.79				
5	16QAM	1	0	21.62	21.66	21.50	22.5	1		
5	16QAM	1	12	21.42	21.74	21.69				
5	16QAM	1	24	21.74	21.60	21.51				
5	16QAM	12	0	20.57	20.43	20.77	21.5	2		
5	16QAM	12	7	20.72	20.71	20.75				
5	16QAM	12	13	20.74	20.79	20.68				
5	16QAM	25	0	20.57	20.58	20.74				
5	64QAM	1	0	20.56	20.47	20.74	21.5	2		
5	64QAM	1	12	20.69	20.61	20.53				
5	64QAM	1	24	20.78	20.74	20.61				
5	64QAM	12	0	19.53	19.57	19.56				
5	64QAM	12	7	19.56	19.52	19.68	20.5	3		
5	64QAM	12	13	19.46	19.72	19.59				
5	64QAM	25	0	19.49	19.55	19.82				

Band 12 ANT4 Default Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.58	24.76	24.57	25.5	0		
10	QPSK	1	25	24.54	24.54	24.37				
10	QPSK	1	49	24.58	24.60	24.61				
10	QPSK	25	0	23.57	23.78	23.63	24.5	1		
10	QPSK	25	12	23.76	23.61	23.47				
10	QPSK	25	25	23.65	23.61	23.55				
10	QPSK	50	0	23.70	23.73	23.68				
10	16QAM	1	0	24.13	23.82	23.76	24.5	1		
10	16QAM	1	25	23.76	24.06	23.74				
10	16QAM	1	49	23.75	23.83	24.08				
10	16QAM	25	0	22.85	22.56	22.56	23.5	2		
10	16QAM	25	12	22.81	22.75	22.59				
10	16QAM	25	25	22.69	22.58	22.60				
10	16QAM	50	0	22.70	22.65	22.66				
10	64QAM	1	0	22.71	22.72	22.66				
10	64QAM	1	25	22.59	22.75	22.63	23.5	2		
10	64QAM	1	49	22.61	22.88	22.61				
10	64QAM	25	0	21.69	21.62	21.56	22.5	3		
10	64QAM	25	12	21.79	21.62	21.72				
10	64QAM	25	25	21.64	21.59	21.73				
10	64QAM	50	0	21.71	21.56	21.49				
Channel										
Frequency (MHz)				23035	23095	23155				
5	QPSK	1	0	24.50	24.75	24.70	25.5	0		
5	QPSK	1	12	24.71	24.68	24.61				
5	QPSK	1	24	24.72	24.74	24.66				
5	QPSK	12	0	23.79	23.81	23.78	24.5	1		
5	QPSK	12	7	23.77	23.83	23.79				
5	QPSK	12	13	23.89	23.80	23.72				
5	QPSK	25	0	23.88	23.75	23.77				
5	16QAM	1	0	23.63	23.76	23.65	24.5	1		
5	16QAM	1	12	23.86	23.77	23.83				
5	16QAM	1	24	23.73	23.87	23.86				
5	16QAM	12	0	22.86	22.82	22.72	23.5	2		
5	16QAM	12	7	22.77	22.86	22.98				
5	16QAM	12	13	22.67	22.79	22.75				
5	16QAM	25	0	22.86	22.72	22.67				
5	64QAM	1	0	23.07	22.86	23.02	23.5	2		
5	64QAM	1	12	22.75	22.90	22.98				
5	64QAM</									



Band 17 ANT4 Default Power									
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				23780	23790	23800			
Frequency (MHz)				706	710	711			
10	QPSK	1	0	24.42	24.74	24.45			
10	QPSK	1	25	24.50	24.45	24.43	25.5	0	
10	QPSK	1	49	24.44	24.51	24.60			
10	QPSK	25	0	23.51	23.67	23.50			
10	QPSK	25	12	23.58	23.53	23.56	24.5	1	
10	QPSK	25	25	23.62	23.61	23.50			
10	QPSK	50	0	23.62	23.66	23.43			
10	16QAM	1	0	23.63	23.51	23.76			
10	16QAM	1	25	23.68	23.64	23.51	24.5	1	
10	16QAM	1	49	23.40	23.70	23.62			
10	16QAM	25	0	22.59	22.58	22.53			
10	16QAM	25	12	22.59	22.43	22.56	23.5	2	
10	16QAM	25	25	22.64	22.73	22.61			
10	16QAM	50	0	22.57	22.64	22.48			
10	64QAM	1	0	22.45	22.50	22.54			
10	64QAM	1	25	22.71	22.57	22.59	23.5	2	
10	64QAM	1	49	22.52	22.54	22.75			
10	64QAM	25	0	21.43	21.70	21.49			
10	64QAM	25	12	21.65	21.60	21.54			
10	64QAM	25	25	21.66	21.55	21.70	22.5	3	
10	64QAM	50	0	21.58	21.52	21.53			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.69	24.67	24.46	25.5	0	
5	QPSK	1	12	24.39	24.48	24.37			
5	QPSK	1	24	24.82	24.53	24.41			
5	QPSK	12	0	23.56	23.63	23.52			
5	QPSK	12	7	23.64	23.63	23.33	24.5	1	
5	QPSK	12	13	23.56	23.56	23.68			
5	QPSK	25	0	23.62	23.53	23.50			
5	16QAM	1	0	23.71	23.73	23.66	24.5	1	
5	16QAM	1	12	23.54	23.38	23.66			
5	16QAM	1	24	23.44	23.51	23.42			
5	16QAM	12	0	22.64	22.73	22.66			
5	16QAM	12	7	22.63	22.71	22.65	23.5	2	
5	16QAM	12	13	22.58	22.69	22.50			
5	16QAM	25	0	22.76	22.66	22.60			
5	64QAM	1	0	22.97	22.95	22.73	23.5	2	
5	64QAM	1	12	22.68	22.61	22.45			
5	64QAM	1	24	22.63	22.74	22.82			
5	64QAM	12	0	21.68	21.77	21.50			
5	64QAM	12	7	21.55	21.81	21.45	22.5	3	
5	64QAM	12	13	21.67	21.63	21.78			
5	64QAM	25	0	21.59	21.43	21.58			

Band 26 ANT4 Default Power									
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	24.42	24.48	24.38			
15	QPSK	1	37	24.36	24.30	24.34	25.5	0	
15	QPSK	1	74	24.38	24.28	24.23			
15	QPSK	36	0	23.52	23.54	23.26			
15	QPSK	36	20	23.30	23.46	23.28	24.5	1	
15	QPSK	36	39	23.31	23.28	23.36			
15	QPSK	75	0	23.39	23.49	23.43			
15	16QAM	1	0	23.35	23.48	23.38			
15	16QAM	1	37	23.24	23.38	23.34	24.5	1	
15	16QAM	1	74	23.29	23.46	23.19			
15	16QAM	36	0	22.44	22.38	22.28			
15	16QAM	36	20	22.40	22.33	22.17	23.5	2	
15	16QAM	36	39	22.35	22.38	22.17			
15	16QAM	75	0	22.42	22.37	22.28			
15	64QAM	1	0	22.32	22.54	22.38			
15	64QAM	1	37	22.21	22.35	22.20	23.5	2	
15	64QAM	1	74	22.33	22.41	22.31			
15	64QAM	36	0	21.43	21.55	21.49			
15	64QAM	36	20	21.33	21.32	21.35	22.5	3	
15	64QAM	36	39	21.36	21.29	21.28			
15	64QAM	75	0	21.32	21.47	21.47			
Channel				26740	26865	26960			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.37	24.35	24.35	25.5	0	
10	QPSK	1	25	24.21	24.21	24.25			
10	QPSK	1	49	24.25	24.26	24.07			
10	QPSK	25	0	23.39	23.45	23.11			
10	QPSK	25	12	23.23	23.44	23.23	24.5	1	
10	QPSK	25	25	23.12	23.10	23.35			
10	QPSK	50	0	23.36	23.43	23.32			
10	16QAM	1	0	23.35	23.32	23.20			
10	16QAM	1	25	23.18	23.18	23.18	24.5	1	
10	16QAM	1	49	23.09	23.42	23.07			
10	16QAM	25	0	22.40	22.18	22.21			
10	16QAM	25	12	22.21	22.28	22.07	23.5	2	
10	16QAM	25	25	22.27	22.19	22.09			
10	16QAM	50	0	22.33	22.36	22.16			
10	64QAM	1	0	22.38	22.39	22.28			
10	64QAM	1	25	22.04	22.27	22.15	23.5	2	
10	64QAM	1	49	22.13	22.33	22.14			
10	64QAM	25	0	21.41	21.38	21.39			
10	64QAM	25	12	21.29	21.16	21.20	22.5	3	
10	64QAM	25	25	21.26	21.28	21.18			
10	64QAM	50	0	21.15	21.43	21.34			
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.32	24.39	24.22	25.5	0	
5	QPSK	1	12	24.29	24.24	24.41			
5	QPSK	1	24	24.25	24.20	24.20			
5	QPSK	12	0	23.35	23.54	23.22			
5	QPSK	12	7	23.29	23.45	23.32	24.5	1	
5	QPSK	12	13	23.16	23.19	23.29			
5	QPSK	25	0	23.30	23.37	23.54			
5	16QAM	1	0	23.34	23.32	23.39	24.5	1	
5	16QAM	1	12	23.22	23.34	23.37			
5	16QAM	1	24	23.12	23.33	23.12			
5	16QAM	12	0	22.30	22.41	22.28			
5	16QAM	12	7	22.40	22.33	22.12	23.5	2	
5	16QAM	12	13	22.20	22.25	22.08			
5	16QAM	25	0	22.49	22.30	22.23			
5	64QAM	1	0	22.31	22.51	22.44	23.5	2	
5	64QAM	1	12	22.27	22.31	22.23			
5	64QAM	1	24	22.20	22.38	22.25			
5	64QAM	12	0	21.34	21.43	21.49	22.5	3	
5	64QAM	12	7	21.32	21.32	21.40			
5	64QAM	12	13	21.32	21.33	21.11			
5	64QAM	25	0	21.22	21.40	21.48			
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.43	24.33	24.42	25.5	0	
3	QPSK	1	5	24.21	24.14	24.37			
3	QPSK	1	14	24.39	24.33	24.10			
3	QPSK	8	0	23.43	23.41	23.31			
3	QPSK	8	4	23.21	23.49	23.12	24.5	1	
3	QPSK	8	7	23.21	23.34	23.25			
3	QPSK	15	0	23.30	23.30	23.33			
3	16QAM	1	0	23.23	23.41	23.32			
3	16QAM	1	8	23.13	23.34	23.39	24.5	1	
3	16QAM	1	14	23.24	23.41	23.22			
3	16QAM	8	0	22.38	22.30	22.20			
3	16QAM	8	4	22.28	22.18	22.07	23.5	2	
3	16QAM	8	7	22.28	22.24	22.17			
3	16QAM	15	0	22.46	22.36	22.31			
3	64QAM	1	0	22.22	22.37	22.40			
3	64QAM	1	8	22.26	22.23	22.13	23.5	2	
3	64QAM	1	14	22.34	22.36	22.22			
3	64QAM	8	0	21.40	21.41	21.55			
3	64QAM	8	4	21.19	21.21	21.22	22.5	3	
3	64QAM	8	7	21.43	21.28	21.24			
3	64QAM	15	0	21.34	21.40	2			



Band 38 ANT4 Default Power									
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	22.63	22.85	22.64	23.5	0	
20	QPSK	1	49	22.71	22.57	22.79			
20	QPSK	1	99	22.67	22.55	22.54			
20	QPSK	50	0	21.54	21.74	21.65	22.5	1	
20	QPSK	50	24	21.66	21.66	21.70			
20	QPSK	50	50	21.57	21.60	21.70			
20	QPSK	100	0	21.63	21.76	21.68	22.5	1	
20	16QAM	1	0	21.63	21.75	21.69			
20	16QAM	1	49	21.70	21.73	21.76			
20	16QAM	1	99	21.67	21.69	21.60	21.5	2	
20	16QAM	50	0	20.54	20.72	20.62			
20	16QAM	50	24	20.64	20.72	20.81			
20	16QAM	50	50	20.59	20.80	20.78	21.5	2	
20	16QAM	100	0	20.64	20.62	20.74			
20	64QAM	1	0	20.84	20.88	20.81			
20	64QAM	1	49	20.96	20.92	20.88	21.5	2	
20	64QAM	1	99	20.86	20.73	20.71			
20	64QAM	50	0	19.70	19.71	19.71			
20	64QAM	50	24	19.83	19.80	19.82	20.5	3	
20	64QAM	50	50	19.66	19.89	19.87			
20	64QAM	100	0	19.82	19.89	19.94			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.48	22.63	22.49	23.5	0	
15	QPSK	1	37	22.70	22.69	22.68			
15	QPSK	1	74	22.67	22.63	22.48			
15	QPSK	36	0	21.60	21.66	21.63	22.5	1	
15	QPSK	36	20	21.68	21.66	21.63			
15	QPSK	36	39	21.62	21.69	21.66			
15	QPSK	75	0	21.61	21.69	21.64	22.5	1	
15	16QAM	1	0	21.63	21.67	21.63			
15	16QAM	1	37	21.69	21.81	21.75			
15	16QAM	1	74	21.64	21.79	21.73	21.5	2	
15	16QAM	36	0	20.54	20.60	20.66			
15	16QAM	36	20	20.62	20.78	20.65			
15	16QAM	36	39	20.65	20.73	20.69	21.5	2	
15	16QAM	75	0	20.67	20.67	20.63			
15	64QAM	1	0	20.79	20.99	20.75			
15	64QAM	1	37	20.82	20.87	20.67	21.5	2	
15	64QAM	1	74	20.77	20.81	20.64			
15	64QAM	36	0	19.72	19.78	19.74			
15	64QAM	36	20	19.90	19.77	19.84	20.5	3	
15	64QAM	36	39	19.83	19.91	19.78			
15	64QAM	75	0	19.84	19.89	19.76			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.84	22.52	22.75	23.5	0	
10	QPSK	1	25	22.53	22.66	22.69			
10	QPSK	1	49	22.58	22.68	22.70			
10	QPSK	25	0	21.81	21.77	21.72	22.5	1	
10	QPSK	25	12	21.81	21.78	21.75			
10	QPSK	25	25	21.81	21.77	21.70			
10	QPSK	50	0	21.79	21.74	21.81	22.5	1	
10	16QAM	1	0	21.75	21.78	21.73			
10	16QAM	1	25	21.62	21.92	21.67			
10	16QAM	1	49	21.73	21.76	21.76	21.5	2	
10	16QAM	25	0	20.72	20.86	20.80			
10	16QAM	25	12	20.82	20.86	20.84			
10	16QAM	25	25	20.81	20.86	20.79	21.5	2	
10	16QAM	50	0	20.76	20.74	20.69			
10	64QAM	1	0	20.64	20.75	20.69			
10	64QAM	1	25	20.69	20.90	20.56	21.5	2	
10	64QAM	1	49	20.81	20.83	20.53			
10	64QAM	25	0	19.76	19.64	19.74			
10	64QAM	25	12	19.68	19.81	19.78	20.5	3	
10	64QAM	25	25	19.77	19.73	19.74			
10	64QAM	50	0	19.72	19.77	19.75			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.71	22.69	22.82	23.5	0	
5	QPSK	1	12	22.76	22.54	22.56			
5	QPSK	1	24	22.59	22.81	22.53			
5	QPSK	12	0	21.80	21.77	21.80	22.5	1	
5	QPSK	12	7	21.77	21.73	21.75			
5	QPSK	12	13	21.68	21.82	21.73			
5	QPSK	25	0	21.76	21.83	21.75	22.5	1	
5	16QAM	1	0	21.67	21.75	21.77			
5	16QAM	1	12	21.51	21.76	21.89			
5	16QAM	1	24	21.63	21.79	22.01	21.5	2	
5	16QAM	12	0	20.64	20.61	20.84			
5	16QAM	12	7	20.73	20.76	20.79			
5	16QAM	12	13	20.72	20.76	20.85	21.5	2	
5	16QAM	25	0	20.70	20.74	20.84			
5	64QAM	1	0	20.77	20.54	20.58			
5	64QAM	1	12	20.77	20.64	20.67	21.5	2	
5	64QAM	1	24	20.79	20.85	20.66			
5	64QAM	12	0	19.75	19.72	19.72			
5	64QAM	12	7	19.83	19.79	19.79	20.5	3	
5	64QAM	12	13	19.71	19.76	19.85			
5	64QAM	25	0	19.72	19.61	19.88			

Band 41 (2.6G Band) ANT4 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40240	40500	40770	41090		
Frequency (MHz)				2555	2581	2608	2640		
20	QPSK	1	0	22.53	22.57	22.89	22.88	23.5	0
20	QPSK	1	49	22.69	22.76	22.70	22.71		
20	QPSK	1	99	22.56	22.52	22.73	22.64		
20	QPSK	50	0	21.69	21.72	21.88	21.69	22.5	1
20	QPSK	50	24	21.67	21.80	21.79	21.69		
20	QPSK	50	50	21.68	21.74	21.80	21.74		
20	QPSK	100	0	21.71	21.79	21.85	21.79	22.5	1
20	16QAM	1	0	21.71	21.84	21.94	21.86		
20	16QAM	1	49	21.77	21.84	21.88	21.86		
20	16QAM	1	99	21.61	21.76	21.82	21.77	21.5	2
20	16QAM	50	0	20.57	20.68	20.86	20.84		
20	16QAM	50	24	20.72	20.87	20.88	20.76		
20	16QAM	50	50	20.76	20.80	20.87	20.84	21.5	2
20	16QAM	100	0	20.71	20.78	20.88	20.81		
20	64QAM	1	0	20.58	20.61	20.79	20.71		
20	64QAM	1	49	20.65	20.70	20.85	20.60	21.5	2
20	64QAM	1	99	20.59	20.77	20.79	20.64		
20	64QAM	50	0	19.61	19.73	19.72	19.68		
20	64QAM	50	24	19.67	19.83	19.84	19.79	20.5	3
20	64QAM	50	50	19.70	19.75	19.83	19.67		
20	64QAM	100	0	19.82	19.82	19.92	19.73		
Channel				40215	40495	40785	41115	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5		
15	QPSK	1	0	22.54	22.56	22.78	22.77	23.5	0
15	QPSK	1	37	22.57	22.49	22.75	22.50		
15	QPSK	1	74	22.54	22.68	22.77	22.63		
15	QPSK	36	0	21.65	21.75	21.81	21.74	22.5	1
15	QPSK	36	20	21.73	21.69	21.90	21.69		
15	QPSK	36	39	21.68	21.76	21.84	21.75		
15	QPSK	75	0	21.72	21.81	21.91	21.69	22.5	1
15	16QAM	1	0	21.78	21.79	21.93	21.91		
15	16QAM	1	37	21.74	21.73	21.82	21.65		
15	16QAM	1	74	21.71	21.74	21.85	21.76	21.5	2
15	16QAM	36	0	20.60	20.66	20.85	20.76		
15	16QAM	36	20	20.68	20.72	20.84	20.80		
15	16QAM	36	39	20.63	20.80	20.90	20.76	21.5	2
15	16QAM	75	0	20.73	20.88	20.92	20.76		
15	64QAM	1	0	20.69	20.69	20.91	20.70		
15	64QAM	1	37	20.53	20.52	20.72	20.50	21.5	2
15	64QAM	1	74	20.67	20.72	20.83	20.72		
15	64QAM	36	0	19.55	19.72	19.79	19.79		
15	64QAM	36	20	19.70	19.76	19.89	19.82	20.5	3
15	64QAM	36	39	19.76	19.74	19.92	19.78		
15	64QAM	75	0	19.72	19.78	19.91	19.81		
Channel				40190	40490	40790	41140	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550	2580	2610	2645		
10	QPSK	1	0	22.85	22.70	22.87	22.83	23.5	0
10	QPSK	1	25	22.84	22.75	22.83	22.74		
10	QPSK	1	49	22.76					



Band 42 ANT5 Default Power									
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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.33	24.45	24.39	25.5	0	
20	QPSK	1	49	24.38	24.42	24.36			
20	QPSK	1	99	24.32	24.41	24.35			
20	QPSK	50	0	23.47	23.54	23.49	24.5	1	
20	QPSK	50	24	23.46	23.47	23.39			
20	QPSK	50	50	23.42	23.49	23.42			
20	QPSK	100	0	23.52	23.58	23.57	24.5	1	
20	16QAM	1	0	23.25	23.31	23.28			
20	16QAM	1	49	23.17	23.23	23.17			
20	16QAM	1	99	23.19	23.27	23.23	23.5	2	
20	16QAM	50	0	22.22	22.24	22.19			
20	16QAM	50	24	22.21	22.23	22.15			
20	16QAM	50	50	22.21	22.29	22.24	23.5	2	
20	16QAM	100	0	22.23	22.31	22.20			
20	64QAM	1	0	22.87	22.94	22.83			
20	64QAM	1	49	22.82	22.85	22.75	23.5	2	
20	64QAM	1	99	22.83	22.91	22.83			
20	64QAM	50	0	22.10	22.19	22.13			
20	64QAM	50	24	22.07	22.17	22.12	22.5	3	
20	64QAM	50	50	22.12	22.21	22.16			
20	64QAM	100	0	22.26	22.34	22.31			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	24.16	24.27	24.21	25.5	0	
15	QPSK	1	37	24.27	24.21	24.16			
15	QPSK	1	74	24.16	24.24	24.16			
15	QPSK	36	0	23.31	23.33	23.31	24.5	1	
15	QPSK	36	20	23.33	23.29	23.25			
15	QPSK	36	39	23.26	23.36	23.26			
15	QPSK	75	0	23.40	23.47	23.38	24.5	1	
15	16QAM	1	0	23.16	23.27	23.24			
15	16QAM	1	37	23.06	23.20	23.16			
15	16QAM	1	74	23.09	23.21	23.19	23.5	2	
15	16QAM	36	0	22.13	22.14	22.13			
15	16QAM	36	20	22.12	22.18	22.10			
15	16QAM	36	39	22.16	22.24	22.22	23.5	2	
15	16QAM	75	0	22.22	22.21	22.16			
15	64QAM	1	0	22.85	22.87	22.77			
15	64QAM	1	37	22.81	22.83	22.70	23.5	2	
15	64QAM	1	74	22.80	22.87	22.73			
15	64QAM	36	0	21.99	22.11	22.11			
15	64QAM	36	20	21.96	22.12	22.03	22.5	3	
15	64QAM	36	39	22.06	22.11	22.08			
15	64QAM	75	0	22.23	22.26	22.23			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.19	24.28	24.23	25.5	0	
10	QPSK	1	25	24.18	24.29	24.17			
10	QPSK	1	49	24.18	24.21	24.18			
10	QPSK	25	0	23.29	23.39	23.29	24.5	1	
10	QPSK	25	12	23.27	23.31	23.26			
10	QPSK	25	25	23.23	23.33	23.23			
10	QPSK	50	0	23.34	23.47	23.41	24.5	1	
10	16QAM	1	0	23.16	23.25	23.23			
10	16QAM	1	25	23.13	23.13	23.15			
10	16QAM	1	49	23.16	23.23	23.14	23.5	2	
10	16QAM	25	0	22.21	22.14	22.12			
10	16QAM	25	12	22.14	22.12	22.07			
10	16QAM	25	25	22.15	22.22	22.18	23.5	2	
10	16QAM	50	0	22.16	22.26	22.10			
10	64QAM	1	0	22.77	22.92	22.75			
10	64QAM	1	25	22.73	22.83	22.68	23.5	2	
10	64QAM	1	49	22.73	22.85	22.78			
10	64QAM	25	0	22.06	22.09	22.09			
10	64QAM	25	12	21.98	22.12	22.08	22.5	3	
10	64QAM	25	25	22.06	22.13	22.14			
10	64QAM	50	0	22.22	22.31	22.24			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	24.17	24.34	24.19	25.5	0	
5	QPSK	1	12	24.27	24.29	24.17			
5	QPSK	1	24	24.16	24.27	24.16			
5	QPSK	12	0	23.29	23.43	23.32	24.5	1	
5	QPSK	12	7	23.31	23.30	23.27			
5	QPSK	12	13	23.28	23.38	23.30			
5	QPSK	25	0	23.39	23.38	23.43	24.5	1	
5	16QAM	1	0	23.18	23.23	23.21			
5	16QAM	1	12	23.15	23.13	23.15			
5	16QAM	1	24	23.12	23.21	23.15	23.5	2	
5	16QAM	12	0	22.15	22.18	22.14			
5	16QAM	12	7	22.17	22.18	22.11			
5	16QAM	12	13	22.17	22.20	22.23	23.5	2	
5	16QAM	25	0	22.17	22.27	22.18			
5	64QAM	1	0	22.85	22.88	22.78			
5	64QAM	1	12	22.73	22.75	22.65	23.5	2	
5	64QAM	1	24	22.81	22.81	22.75			
5	64QAM	12	0	22.00	22.09	22.02			
5	64QAM	12	7	22.05	22.08	22.02	22.5	3	
5	64QAM	12	13	22.03	22.19	22.14			
5	64QAM	25	0	22.18	22.25	22.24			



Reduced power level for WWAN

GSM850 Ant0 DS11

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	852.2	853.4	854.6	(dBm)	852.2	853.4	854.6	(dBm)
GSM 1 Tx slot	32.15	32.10	31.97	33.50	23.15	23.10	22.97	24.50
GPRS 1 Tx slot	32.21	32.04	31.89	33.50	23.21	23.04	22.89	24.50
GPRS 2 Tx slots	29.43	29.46	29.27	30.50	23.43	23.46	23.27	24.50
GPRS 3 Tx slots	27.33	27.74	27.67	28.50	23.07	23.48	23.41	24.24
GPRS 4 Tx slots	26.00	26.32	26.30	27.50	23.00	23.32	23.30	24.50
EDGE 1 Tx slot	25.94	25.96	25.85	27.50	16.94	16.96	16.85	18.50
EDGE 2 Tx slots	23.17	23.11	23.14	24.50	17.17	17.11	17.14	18.50
EDGE 3 Tx slots	21.19	21.24	21.16	23.00	16.93	16.98	16.90	18.74
EDGE 4 Tx slots	19.84	20.12	20.03	21.50	16.84	17.12	17.03	18.50

GSM1900 Ant0 DS11

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	29.27	29.33	29.21	30.50	20.27	20.33	20.21	21.50
GPRS 1 Tx slot	29.34	29.28	29.10	30.50	20.34	20.28	20.10	21.50
GPRS 2 Tx slots	26.70	26.64	26.39	27.50	20.70	20.64	20.39	21.50
GPRS 3 Tx slots	24.63	24.62	24.61	25.50	20.37	20.56	20.35	21.24
GPRS 4 Tx slots	23.17	23.52	23.43	24.50	20.17	20.52	20.43	21.50
EDGE 1 Tx slot	25.23	25.39	25.18	28.50	16.23	16.39	16.18	17.50
EDGE 2 Tx slots	22.51	22.45	22.27	24.00	16.51	16.45	16.27	18.00
EDGE 3 Tx slots	19.92	19.82	19.73	21.50	15.66	15.56	15.47	17.24
EDGE 4 Tx slots	19.97	19.69	19.85	20.50	16.97	16.69	16.85	17.50

WCDMA II Ant0 DS11

WCDMA IV Ant0 DS11

WCDMA V Ant0 DS11

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9302	9400	9538		1312	1413	1513		4192	4182	4238		
TX Channel	9302	9400	9538	Limit	1312	1413	1513	Limit	4192	4182	4238	Limit	
RX Channel	9302	9300	9333	(dBm)	1537	1638	1738	(dBm)	4357	4407	4455	(dBm)	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	838.4	846.6		
3GPP Rel 99	AMR 12.2kops	23.86	23.91	23.79	25.50	24.10	24.13	24.11	25.50	24.71	24.74	24.72	25.50
3GPP Rel 99	AMR 12.2kops	23.94	23.98	23.86	25.50	24.14	24.17	24.09	25.50	24.75	24.78	24.69	25.50
3GPP Rel 6	HSDPA Subtest-1	22.97	22.98	22.86	24.50	23.21	23.20	23.05	24.50	23.76	23.81	23.54	24.50
3GPP Rel 6	HSDPA Subtest-2	23.03	22.99	22.81	24.50	23.23	23.18	23.11	24.50	23.82	23.69	23.58	24.50
3GPP Rel 6	HSDPA Subtest-3	22.42	22.42	22.31	24.00	22.72	22.68	22.59	24.00	23.33	23.29	23.20	24.00
3GPP Rel 6	HSDPA Subtest-4	22.57	22.50	22.35	24.00	22.71	22.73	22.61	24.00	23.32	23.34	23.22	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.95	22.93	22.76	24.50	23.09	23.08	22.93	24.50	23.82	23.87	23.56	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.99	22.91	22.93	24.50	23.11	23.06	22.99	24.50	23.87	23.74	23.56	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.40	22.45	22.35	24.00	22.60	22.56	22.47	24.00	23.37	23.30	23.21	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.45	22.55	22.28	24.00	22.50	22.61	22.49	24.00	23.38	23.31	23.18	24.00
3GPP Rel 6	HSUPA Subtest-1	22.93	22.94	22.83	24.50	23.17	23.17	23.05	24.50	23.69	23.75	23.66	24.50
3GPP Rel 6	HSUPA Subtest-2	20.92	21.00	20.90	22.50	21.17	21.18	21.03	22.50	21.78	21.79	21.67	22.50
3GPP Rel 6	HSUPA Subtest-3	21.95	21.97	21.85	23.50	22.19	22.16	22.03	23.50	22.80	22.77	22.64	23.50
3GPP Rel 6	HSUPA Subtest-4	20.90	20.89	20.82	22.50	21.12	21.17	21.09	22.50	21.73	21.78	21.70	22.50
3GPP Rel 6	HSUPA Subtest-5	22.88	22.93	22.87	24.50	23.90	23.90	23.50	24.50	23.78	23.74	23.40	24.50



Band 2 Ant0 DS1H										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.02	23.31	23.08	24.5	0		
20	QPSK	1	49	23.10	23.05	23.23				
20	QPSK	1	99	23.22	22.99	22.99				
20	QPSK	50	0	22.17	22.29	22.13	23.5	1		
20	QPSK	50	24	22.20	22.11	22.10				
20	QPSK	50	50	22.22	22.11	22.17				
20	QPSK	100	0	22.26	22.31	22.13	23.5	1		
20	16QAM	1	0	21.97	21.99	22.25				
20	16QAM	1	49	21.95	22.18	22.21				
20	16QAM	1	99	22.09	22.20	22.26	22.5	2		
20	16QAM	50	0	21.27	21.07	21.11				
20	16QAM	50	24	21.26	21.25	21.13				
20	16QAM	50	50	21.25	21.22	21.00	21.5	3		
20	16QAM	100	0	21.21	21.07	21.11				
20	64QAM	1	0	21.04	21.27	21.09				
20	64QAM	1	49	20.89	21.16	21.03	22.5	2		
20	64QAM	1	99	21.05	20.89	21.17				
20	64QAM	50	0	20.14	20.14	20.14				
20	64QAM	50	24	20.27	20.10	20.04	21.5	3		
20	64QAM	50	50	20.21	20.12	19.97				
20	64QAM	100	0	20.29	20.09	20.15				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.75	18.90	19.15	24.5	0		
15	QPSK	1	37	18.15	23.15	23.29				
15	QPSK	1	74	23.20	23.12	23.04				
15	QPSK	36	0	22.22	22.22	22.15	23.5	1		
15	QPSK	36	20	22.24	22.19	22.13				
15	QPSK	36	39	22.26	22.06	22.10				
15	QPSK	75	0	22.25	22.14	22.11	23.5	1		
15	16QAM	1	0	21.42	21.34	21.22				
15	16QAM	1	37	22.30	22.44	22.17				
15	16QAM	1	74	22.45	22.34	22.39	22.5	2		
15	16QAM	36	0	21.31	21.15	21.12				
15	16QAM	36	20	21.16	21.14	21.13				
15	16QAM	36	39	21.16	21.16	21.18	21.5	3		
15	16QAM	75	0	21.24	21.17	21.17				
15	64QAM	1	0	21.10	21.25	21.28				
15	64QAM	1	37	21.29	21.08	21.17	22.5	2		
15	64QAM	1	74	21.12	21.22	21.29				
15	64QAM	36	0	20.19	20.11	20.12				
15	64QAM	36	20	20.23	20.21	20.16	21.5	3		
15	64QAM	36	39	20.16	20.18	20.15				
15	64QAM	75	0	20.18	20.18	20.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.23	23.29	23.25	24.5	0		
10	QPSK	1	25	23.24	23.14	23.24				
10	QPSK	1	49	23.15	22.92	23.00				
10	QPSK	25	0	22.39	22.27	22.22	23.5	1		
10	QPSK	25	12	22.30	22.30	22.33				
10	QPSK	25	25	22.33	22.23	22.22				
10	QPSK	50	0	22.39	22.26	22.24	23.5	1		
10	16QAM	1	0	22.28	22.22	22.39				
10	16QAM	1	25	22.42	22.45	22.15				
10	16QAM	1	49	22.26	22.37	22.23	22.5	2		
10	16QAM	25	0	21.44	21.49	21.25				
10	16QAM	25	12	21.40	21.32	21.23				
10	16QAM	25	25	21.25	21.20	21.03	21.5	3		
10	16QAM	50	0	21.39	21.21	21.30				
10	64QAM	1	0	21.44	21.33	21.39				
10	64QAM	1	25	21.34	21.13	21.37	22.5	2		
10	64QAM	1	49	21.22	21.41	21.20				
10	64QAM	25	0	20.34	20.31	20.24				
10	64QAM	25	12	20.33	20.23	20.24	21.5	3		
10	64QAM	25	25	20.32	20.19	20.25				
10	64QAM	50	0	20.30	20.33	20.29				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.25	23.27	22.96	24.5	0		
5	QPSK	1	12	23.30	22.92	23.02				
5	QPSK	1	24	23.17	23.00	23.03				
5	QPSK	12	0	22.32	22.34	22.25	23.5	1		
5	QPSK	12	7	22.28	22.37	22.26				
5	QPSK	12	13	22.34	22.22	22.16				
5	QPSK	25	0	22.33	22.29	22.15	23.5	1		
5	16QAM	1	0	21.19	22.37	22.16				
5	16QAM	1	12	22.32	22.21	22.20				
5	16QAM	1	24	22.31	22.53	22.45	22.5	2		
5	16QAM	12	0	21.28	21.29	21.31				
5	16QAM	12	7	21.63	21.48	21.23				
5	16QAM	12	13	21.41	21.22	21.25	22.5	2		
5	16QAM	25	0	21.47	21.23	21.22				
5	64QAM	1	0	21.36	21.27	21.53				
5	64QAM	1	12	21.41	21.34	21.31	21.5	3		
5	64QAM	1	24	21.36	21.40	21.20				
5	64QAM	12	0	20.43	20.42	20.35				
5	64QAM	12	7	20.26	20.31	20.25	21.5	3		
5	64QAM	12	13	20.33	20.12	20.32				
5	64QAM	25	0	20.34	20.20	20.23				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.17	23.30	23.09	24.5	0		
3	QPSK	1	8	23.15	23.24	23.12				
3	QPSK	1	14	23.24	23.18	23.06				
3	QPSK	8	0	22.18	22.21	22.04	23.5	1		
3	QPSK	8	7	22.18	22.22	21.99				
3	QPSK	8	14	22.10	22.08	22.01				
3	QPSK	15	0	22.14	22.13	21.98	23.5	1		
3	16QAM	1	0	22.38	22.49	22.17				
3	16QAM	1	8	22.19	22.40	22.18				
3	16QAM	1	14	22.13	22.50	22.22	22.5	2		
3	16QAM	8	0	21.15	21.35	21.19				
3	16QAM	8	4	21.14	21.20	21.16				
3	16QAM	8	7	21.30	21.12	21.25	22.5	2		
3	16QAM	15	0	21.20	21.13	21.22				
3	64QAM	1	0	21.31	21.39	21.27				
3	64QAM	1	8	21.36	21.17	21.26	22.5	2		
3	64QAM	1	12	21.25	21.39	21.09				
3	64QAM	8	0	20.30	20.20	20.11				
3	64QAM	8	4	20.93	20.13	20.05	21.5	3		
3	64QAM	8	7	20.31	20.16	20.09				
3	64QAM	15	0	20.18	20.21	19.95				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.06	23.29	22.99	24.5	0		
1.4	QPSK	1	3	23.07	23.06	22.98				
1.4	QPSK	1	5	22.95	23.07	22.85				
1.4	QPSK	3	0	23.09	23.19	23.02	23.5	1		
1.4	QPSK	3	1	23.15	23.20	23.30				
1.4	QPSK	3	3	23.16	22.97	22.91				
1.4	QPSK	6	0	22.26	22.16	22.06	23.5	1		
1.4	16QAM	1	0	22.41	22.35	22.27				
1.4	16QAM	1	3	22.28	22.32	22.03				
1.4	16QAM	1	5	22.21	22.24	22.14	23.5	1		
1.4	16QAM	3	0	22.32	22.25	21.98				
1.4	16QAM	3	1	22.21	21.95	22.08				
1.4	16QAM	3	3	22.18	22.13	22.05	22.5	2		
1.4	64QAM	1	0	21.19	21.34	21.03				
1.4	64QAM	1	0	21.35	21.29	21.15				
1.4	64QAM	1	3	21.23	21.40	21.27	22.5	2		
1.4	64QAM	1	5	21.19	21.25	21.32				
1.4	64QAM	3	0	21.33	21.38	21.20				
1.4	64QAM	3	1	21.25	21.24	21.21	21.5	3		
1.4	64QAM	3	3	21.30	21.21	21.10				
1.4	64QAM	6	0	20.15	20.29	20.23				

Band 4 Ant0 DS1H										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.44	23.67	23.63	25	0		
20	QPSK	1	49	23.56	23.47	23.44				
20	QPSK	1	99	23.44	23.44	23.26				
20	QPSK	50	0	22.61	22.62	22.52	24	1		
20	QPSK	50	24	22.59	22.59	22.50				
20	QPSK	50	50	22.52	22.55	22.50				
20	QPSK	100	0	22.55	22.60	22.40	24	1		
20	16									



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Band 7 Ant0 DS1I										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.18	24.39	24.34	25.5	0		
20	QPSK	1	49	24.21	24.30	24.17				
20	QPSK	1	99	24.26	24.32	24.35				
20	QPSK	50	0	23.19	23.56	23.27	24.5	1		
20	QPSK	50	24	23.49	23.51	23.44				
20	QPSK	50	50	23.52	23.48	23.44				
20	QPSK	100	0	23.35	23.45	23.31	24.5	1		
20	16QAM	1	0	23.22	23.39	23.41				
20	16QAM	1	49	23.28	23.33	23.20				
20	16QAM	1	99	23.36	23.33	23.18	23.5	2		
20	16QAM	50	0	22.41	22.26	22.25				
20	16QAM	50	24	22.46	22.38	22.37				
20	16QAM	50	50	22.43	22.49	22.48	23.5	2		
20	16QAM	100	0	22.39	22.36	22.41				
20	64QAM	1	0	22.24	22.37	22.34				
20	64QAM	1	49	22.55	22.42	22.40	23.5	2		
20	64QAM	1	99	22.57	22.27	22.31				
20	64QAM	50	0	21.34	21.29	21.31				
20	64QAM	50	24	21.49	21.36	21.40	22.5	3		
20	64QAM	50	50	21.51	21.47	21.41				
20	64QAM	100	0	21.40	21.39	21.36				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.11	24.21	24.05	25.5	0		
15	QPSK	1	37	23.99	24.27	24.22				
15	QPSK	1	74	24.25	24.33	24.22				
15	QPSK	36	0	23.21	23.31	23.32	24.5	1		
15	QPSK	36	20	23.35	23.34	23.22				
15	QPSK	36	39	23.40	23.29	23.34				
15	QPSK	75	0	23.34	23.36	23.34	24.5	1		
15	16QAM	1	0	23.20	23.24	23.38				
15	16QAM	1	37	23.19	23.28	23.08				
15	16QAM	1	74	23.50	23.23	23.21	23.5	2		
15	16QAM	36	0	22.29	22.23	22.09				
15	16QAM	36	20	22.40	22.36	22.33				
15	16QAM	36	39	22.30	22.36	22.35	23.5	2		
15	16QAM	75	0	22.28	22.30	22.38				
15	64QAM	1	0	22.16	22.26	22.13				
15	64QAM	1	37	22.39	22.24	22.19	23.5	2		
15	64QAM	1	74	22.31	22.05	22.09				
15	64QAM	36	0	21.24	21.26	21.28				
15	64QAM	36	20	21.32	21.39	21.26	22.5	3		
15	64QAM	36	39	21.40	21.31	21.33				
15	64QAM	75	0	21.39	21.35	21.27				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.29	24.10	24.11	25.5	0		
10	QPSK	1	25	24.05	24.25	24.36				
10	QPSK	1	49	24.11	24.25	24.26				
10	QPSK	25	0	23.28	23.09	23.19	24.5	1		
10	QPSK	25	12	23.05	23.18	23.15				
10	QPSK	25	25	23.04	23.16	23.08				
10	QPSK	50	0	23.23	23.06	23.00	24.5	1		
10	16QAM	1	0	23.05	23.17	23.02				
10	16QAM	1	25	23.19	23.02	23.08				
10	16QAM	1	49	23.16	23.17	23.05	23.5	2		
10	16QAM	25	0	22.05	22.18	22.08				
10	16QAM	25	12	22.23	22.20	22.25				
10	16QAM	25	25	22.31	22.13	22.34	23.5	2		
10	16QAM	50	0	22.36	22.31	22.42				
10	64QAM	1	0	22.11	22.18	22.24				
10	64QAM	1	25	22.17	22.30	22.10	23.5	2		
10	64QAM	1	49	22.14	22.29	22.06				
10	64QAM	25	0	21.05	21.08	21.19				
10	64QAM	25	12	21.36	21.02	21.18	22.5	3		
10	64QAM	25	25	21.23	21.06	21.16				
10	64QAM	50	0	21.08	21.38	21.08				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.32	24.27	24.25	25.5	0		
5	QPSK	1	12	24.13	24.37	24.23				
5	QPSK	1	24	24.35	24.32	24.36				
5	QPSK	12	0	23.28	23.31	23.24	24.5	1		
5	QPSK	12	7	23.32	23.31	23.23				
5	QPSK	12	13	23.45	23.41	23.45				
5	QPSK	25	0	23.33	23.34	23.38	24.5	1		
5	16QAM	1	0	23.20	23.37	23.25				
5	16QAM	1	12	23.15	23.28	23.17				
5	16QAM	1	24	23.26	23.05	23.17	24.5	1		
5	16QAM	12	0	22.29	22.29	22.13				
5	16QAM	12	7	22.33	22.31	22.45				
5	16QAM	12	13	22.40	22.44	22.46	23.5	2		
5	16QAM	25	0	22.24	22.38	22.37				
5	64QAM	1	0	22.00	22.18	22.06				
5	64QAM	1	12	22.29	22.24	22.12	23.5	2		
5	64QAM	1	24	22.46	22.15	22.05				
5	64QAM	12	0	21.18	21.26	21.25				
5	64QAM	12	7	21.31	21.45	21.26	22.5	3		
5	64QAM	12	13	21.40	21.46	21.40				
5	64QAM	25	0	21.39	21.31	21.33				

Band 12 Ant0 DS1I										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.57	24.69	24.64	25.5	0		
10	QPSK	1	25	24.61	24.64	24.51				
10	QPSK	1	49	24.67	24.65	24.61				
10	QPSK	25	0	23.69	23.89	23.68	24.5	1		
10	QPSK	25	12	23.74	23.71	23.80				
10	QPSK	25	25	23.53	23.86	23.81				
10	QPSK	50	0	23.83	23.86	23.80	24.5	1		
10	16QAM	1	0	23.75	23.73	23.73				
10	16QAM	1	25	23.85	23.79	23.61				
10	16QAM	1	49	23.77	23.73	23.72	23.5	2		
10	16QAM	25	0	22.82	22.73	22.69				
10	16QAM	25	12	22.80	22.69	22.71				
10	16QAM	25	25	22.90	22.85	22.92	23.5	2		
10	16QAM	50	0	22.92	22.86	22.74				
10	64QAM	1	0	22.87	22.60	22.66				
10	64QAM	1	25	22.61	22.57	22.77	23.5	2		
10	64QAM	1	49	22.64	22.70	22.92				
10	64QAM	25	0	21.85	21.66	21.75				
10	64QAM	25	12	21.87	21.75	21.68	22.5	3		
10	64QAM	25	25	21.88	21.62	21.77				
10	64QAM	50	0	21.90	21.80	21.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.67	24.62	24.64	25.5	0		
5	QPSK	1	12	24.60	24.58	24.44				
5	QPSK	1	24	24.61	24.52	24.60				
5	QPSK	12	0	23.60	23.61	23.64	24.5	1		
5	QPSK	12	7	23.71	23.71	23.71				
5	QPSK	12	13	23.64	23.60	23.66				
5	QPSK	25	0	23.77	23.63	23.59	23.5	2		
5	16QAM	1	0	23.62	23.70	23.52				
5	16QAM	1	12	23.48	23.75	23.71				
5	16QAM	1	24	23.61	23.68	23.54	23.5	2		
5	16QAM	12	0	22.84	22.64	22.62				
5	16QAM	12	7	22.89	22.69	22.80				
5	16QAM	12	13	22.61	22.64	22.65	23.5	2		
5	16QAM	25	0	22.73	22.77	22.69				
5	64QAM	1	0	22.73	22.64	22.95				
5	64QAM	1	12	22.76	22.94	22.88	23.5	2		
5	64QAM	1	24	22.70	22.76	22.75				
5	64QAM	12	0	21.79	21.71	21.64				
5	64QAM	12	7	21.81	21.67	21.74	22.5	3		
5	64QAM	12	13	21.59	21.67	21.82				
5	64QAM	25	0	21.60	21.64	21.73				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.57	24.66	24.66	25.5	0		
3	QPSK	1	8	24.44	24.65	24.63				
3	QPSK	1	14	24.56	24.63	24.61				
3	QPSK	8	0	23.80	23.68	23.76	24.5	1		
3	QPSK	8	4	23.76	23.81	23.75				
3	QPSK	8	7	23.66	23.83	23.71				
3	QPSK	15	0							



Band 17 Ant0 DS11									
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				23765	23790	23800			
Frequency (MHz)				705	710	711			
10	QPSK	1	0	24.50	24.88	24.42			
10	QPSK	1	25	24.45	24.57	24.65	25.5	0	
10	QPSK	1	49	24.33	24.40	24.62			
10	QPSK	25	0	23.59	23.92	23.68			
10	QPSK	25	12	23.77	23.89	23.70	24.5	1	
10	QPSK	25	25	23.67	23.63	23.70			
10	QPSK	50	0	23.79	23.90	23.58			
10	16QAM	1	0	23.85	23.77	23.81			
10	16QAM	1	25	23.82	23.86	23.84	24.5	1	
10	16QAM	1	49	23.72	23.84	23.63			
10	16QAM	25	0	22.98	22.59	22.77			
10	16QAM	25	12	22.79	22.68	22.77	23.5	2	
10	16QAM	25	25	22.78	22.69	22.72			
10	16QAM	50	0	22.70	22.65	22.74			
10	64QAM	1	0	22.85	22.76	22.80			
10	64QAM	1	25	22.81	23.14	22.90	23.5	2	
10	64QAM	1	49	22.83	22.75	22.87			
10	64QAM	25	0	21.59	21.84	21.96			
10	64QAM	25	12	21.86	21.72	21.72	22.5	3	
10	64QAM	25	25	21.78	21.79	21.74			
10	64QAM	50	0	21.72	21.88	21.81			
Channel				23755	23790	23825			
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.87	24.87	24.56	25.5	0	
5	QPSK	1	12	24.39	24.59	24.58			
5	QPSK	1	24	24.62	24.56	24.66			
5	QPSK	12	0	23.62	23.77	23.70	24.5	1	
5	QPSK	12	7	23.66	23.64	23.67			
5	QPSK	12	13	23.73	23.70	23.74			
5	QPSK	25	0	23.64	23.70	23.60			
5	16QAM	1	0	23.88	23.75	23.70	24.5	1	
5	16QAM	1	12	23.87	23.75	24.14			
5	16QAM	1	24	23.84	24.16	23.98			
5	16QAM	12	0	22.80	22.77	22.67	23.5	2	
5	16QAM	12	7	22.85	22.57	22.83			
5	16QAM	12	13	22.70	22.72	22.78			
5	16QAM	25	0	22.70	22.57	22.77			
5	64QAM	1	0	22.80	22.63	22.71	23.5	2	
5	64QAM	1	12	22.69	22.76	22.73			
5	64QAM	1	24	22.70	22.55	22.64			
5	64QAM	12	0	21.80	21.75	21.82	22.5	3	
5	64QAM	12	7	21.62	21.72	21.89			
5	64QAM	12	13	21.66	21.54	21.63			
5	64QAM	25	0	21.57	21.61	21.66			

Band 26 Ant0 DS11									
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	24.34	24.44	24.31			
15	QPSK	1	37	24.39	24.37	24.29	25.5	0	
15	QPSK	1	74	24.37	24.33	24.18			
15	QPSK	36	0	23.44	23.50	23.37			
15	QPSK	36	20	23.42	23.46	23.44	24.5	1	
15	QPSK	36	39	23.48	23.46	23.38			
15	QPSK	75	0	23.42	23.52	23.31			
15	16QAM	1	0	23.77	23.67	23.64	24.5	1	
15	16QAM	1	37	23.70	23.66	23.58			
15	16QAM	1	74	23.75	23.66	23.48			
15	16QAM	36	0	22.45	22.43	22.38			
15	16QAM	36	20	22.50	22.48	22.41	23.5	2	
15	16QAM	36	39	22.46	22.47	22.39			
15	16QAM	75	0	22.52	22.41	22.38			
15	64QAM	1	0	22.80	22.55	22.50	23.5	2	
15	64QAM	1	37	22.65	22.60	22.50			
15	64QAM	1	74	22.58	22.54	22.37			
15	64QAM	36	0	21.48	21.44	21.37			
15	64QAM	36	20	21.51	21.47	21.40	22.5	3	
15	64QAM	36	39	21.50	21.47	21.38			
15	64QAM	75	0	21.52	21.42	21.34			
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.35	24.33	24.20	25.5	0	
10	QPSK	1	25	24.33	24.25	24.17			
10	QPSK	1	49	24.27	24.20	24.12			
10	QPSK	25	0	23.45	23.37	23.31	24.5	1	
10	QPSK	25	12	23.45	23.36	23.32			
10	QPSK	25	25	23.42	23.40	23.33			
10	QPSK	50	0	23.46	23.34	23.30			
10	16QAM	1	0	23.60	23.68	23.61	24.5	1	
10	16QAM	1	25	23.62	23.63	23.53			
10	16QAM	1	49	23.63	23.61	23.49			
10	16QAM	25	0	22.50	22.38	22.31	23.5	2	
10	16QAM	25	12	22.47	22.40	22.35			
10	16QAM	25	25	22.42	22.43	22.35			
10	16QAM	50	0	22.47	22.37	22.29			
10	64QAM	1	0	22.57	22.60	22.48	23.5	2	
10	64QAM	1	25	22.56	22.46	22.38			
10	64QAM	1	49	22.50	22.50	22.39			
10	64QAM	25	0	21.49	21.39	21.31	22.5	3	
10	64QAM	25	12	21.47	21.35	21.29			
10	64QAM	25	25	21.40	21.41	21.31			
10	64QAM	50	0	21.44	21.36	21.31			
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.33	24.37	24.22	25.5	0	
5	QPSK	1	12	24.40	24.32	24.20			
5	QPSK	1	24	24.32	24.27	24.09			
5	QPSK	12	0	23.46	23.34	23.29	24.5	1	
5	QPSK	12	7	23.46	23.42	23.28			
5	QPSK	12	13	23.43	23.36	23.24			
5	QPSK	25	0	23.46	23.33	23.26			
5	16QAM	1	0	23.60	23.58	23.52	24.5	1	
5	16QAM	1	12	23.64	23.67	23.54			
5	16QAM	1	24	23.66	23.58	23.50			
5	16QAM	12	0	22.50	22.37	22.31	23.5	2	
5	16QAM	12	7	22.51	22.43	22.30			
5	16QAM	12	13	22.47	22.41	22.27			
5	16QAM	25	0	22.49	22.34	22.28			
5	64QAM	1	0	22.58	22.51	22.45	23.5	2	
5	64QAM	1	12	22.56	22.42	22.39			
5	64QAM	1	24	22.54	22.46	22.36			
5	64QAM	12	0	21.53	21.36	21.33	22.5	3	
5	64QAM	12	7	21.48	21.43	21.29			
5	64QAM	12	13	21.45	21.41	21.29			
5	64QAM	25	0	21.39	21.30	21.27			
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.29	24.34	24.14	25.5	0	
3	QPSK	1	8	24.33	24.31	24.20			
3	QPSK	1	14	24.37	24.27	23.89			
3	QPSK	8	0	23.40	23.29	23.27	24.5	1	
3	QPSK	8	4	23.42	23.45	23.31			
3	QPSK	8	7	23.45	23.37	23.24			
3	QPSK	15	0	23.44	23.40	23.26			
3	16QAM	1	0	23.53	23.60	23.52	24.5	1	
3	16QAM	1	8	23.61	23.67	23.54			
3	16QAM	1	14	23.70	23.61	23.55			
3	16QAM	8	0	22.50	22.37	22.33	23.5	2	
3	16QAM	8	4	22.55	22.51	22.35			
3	16QAM	8	7	22.49	22.42	22.28			
3	16QAM	15	0	22.50	22.43	22.30			
3	64QAM	1	0	22.56	22.48	22.39	23.5	2	
3	64QAM	1	8	22.62	22.55	22.44			
3	64QAM	1	14	22.55	22.57	22.41			
3	64QAM	8	0	21.51	21.36	21.31	22.5	3	
3	64QAM	8	4	21.50	21.44	21.31			
3	64QAM	8	7	21.50	21.44	21.08			
3	64QAM	15	0	21.48	21.38				



Band 38 Ant0 DS11										
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	24.01	24.13	24.00	25.5	0		
20	QPSK	1	49	24.02	24.09	24.05				
20	QPSK	1	99	24.03	24.06	24.02				
20	QPSK	50	0	23.01	23.24	23.14	24.5	1		
20	QPSK	50	24	23.19	23.15	23.14				
20	QPSK	50	50	23.18	23.17	23.15				
20	QPSK	100	0	23.05	23.16	23.14	24.5	1		
20	16QAM	1	0	23.10	23.15	23.15				
20	16QAM	1	49	23.20	23.17	23.19				
20	16QAM	1	99	23.22	23.20	23.17	23.5	2		
20	16QAM	50	0	22.11	22.19	22.10				
20	16QAM	50	24	22.20	22.21	22.21				
20	16QAM	50	50	22.21	22.22	22.22	23.5	2		
20	16QAM	100	0	22.19	22.09	22.21				
20	64QAM	1	0	22.16	22.10	22.02				
20	64QAM	1	49	22.12	22.12	22.04	23.5	2		
20	64QAM	1	99	22.05	22.07	22.03				
20	64QAM	50	0	21.02	21.12	21.02				
20	64QAM	50	24	21.12	21.14	21.24	22.5	3		
20	64QAM	50	50	21.03	21.16	21.16				
20	64QAM	100	0	21.12	21.24	21.24				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.07	24.04	24.03	25.5	0		
15	QPSK	1	37	24.00	24.11	23.98				
15	QPSK	1	74	24.06	24.09	24.03				
15	QPSK	36	0	23.08	23.15	23.19	24.5	1		
15	QPSK	36	20	23.20	23.15	23.13				
15	QPSK	36	39	23.07	23.17	23.13				
15	QPSK	75	0	23.12	23.16	23.15	24.5	1		
15	16QAM	1	0	23.21	23.18	23.25				
15	16QAM	1	37	23.13	23.26	23.29				
15	16QAM	1	74	23.19	23.23	23.17	23.5	2		
15	16QAM	36	0	22.09	22.08	22.11				
15	16QAM	36	20	22.10	22.15	22.15				
15	16QAM	36	39	22.18	22.18	22.13	23.5	2		
15	16QAM	75	0	22.18	22.13	22.15				
15	64QAM	1	0	22.19	22.11	22.04				
15	64QAM	1	37	22.09	22.14	21.97	23.5	2		
15	64QAM	1	74	22.06	22.13	22.02				
15	64QAM	36	0	21.03	21.11	21.14				
15	64QAM	36	20	21.13	21.18	21.19	22.5	3		
15	64QAM	36	39	21.23	21.23	21.18				
15	64QAM	75	0	21.17	21.14	21.15				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2675	2695	2615				
10	QPSK	1	0	24.05	24.06	23.91	25.5	0		
10	QPSK	1	25	23.89	23.95	23.93				
10	QPSK	1	49	23.99	24.09	23.98				
10	QPSK	25	0	23.12	23.14	23.07	24.5	1		
10	QPSK	25	12	23.13	22.99	23.05				
10	QPSK	25	25	22.96	23.05	23.01				
10	QPSK	50	0	23.10	23.05	23.11	24.5	1		
10	16QAM	1	0	23.05	23.03	23.18				
10	16QAM	1	25	23.05	23.02	23.09				
10	16QAM	1	49	23.03	23.13	23.11	23.5	2		
10	16QAM	25	0	22.08	22.11	22.06				
10	16QAM	25	12	22.12	22.17	22.13				
10	16QAM	25	25	22.14	22.21	22.19	23.5	2		
10	16QAM	50	0	22.17	22.11	22.07				
10	64QAM	1	0	21.93	22.00	22.04				
10	64QAM	1	25	21.74	21.98	21.86	23.5	2		
10	64QAM	1	49	21.92	22.00	21.88				
10	64QAM	25	0	21.06	21.06	20.99				
10	64QAM	25	12	21.09	21.00	21.06	22.5	3		
10	64QAM	25	25	20.98	21.17	21.05				
10	64QAM	50	0	21.01	20.97	21.01				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	23.89	24.07	24.01	25.5	0		
5	QPSK	1	12	23.97	24.10	24.01				
5	QPSK	1	24	24.09	23.87	23.93				
5	QPSK	12	0	23.16	23.12	23.18	24.5	1		
5	QPSK	12	7	23.13	23.11	23.13				
5	QPSK	12	13	23.13	23.14	23.11				
5	QPSK	25	0	23.12	23.10	23.14	24.5	1		
5	16QAM	1	0	23.03	22.98	23.15				
5	16QAM	1	12	23.35	23.16	23.01				
5	16QAM	1	24	23.12	23.17	23.05	23.5	2		
5	16QAM	12	0	22.17	22.04	21.99				
5	16QAM	12	7	22.05	22.03	22.04				
5	16QAM	12	13	22.04	22.24	22.11	23.5	2		
5	16QAM	25	0	22.12	22.20	22.21				
5	64QAM	1	0	22.39	22.21	22.13				
5	64QAM	1	12	22.24	22.29	22.22	23.5	2		
5	64QAM	1	24	22.27	22.10	22.16				
5	64QAM	12	0	21.08	21.14	21.19				
5	64QAM	12	7	21.16	21.14	21.25	22.5	3		
5	64QAM	12	13	21.06	21.23	21.11				
5	64QAM	25	0	21.05	20.96	21.15				

Band 41 (2.6G Band) Ant0 DS11											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				40240	40500	40770	41090				
Frequency (MHz)				2555	2581	2608	2640				
20	QPSK	1	0	24.10	24.02	24.17	24.04	25.5	0		
20	QPSK	1	49	24.06	24.07	24.11	24.12				
20	QPSK	1	99	24.02	23.97	24.12	23.98				
20	QPSK	50	0	23.17	23.17	23.30	23.23	24.5	1		
20	QPSK	50	24	23.21	23.20	23.14	23.11				
20	QPSK	50	50	23.26	23.17	23.25	23.14				
20	QPSK	100	0	23.29	23.20	23.32	23.18	24.5	1		
20	16QAM	1	0	23.18	23.19	23.34	23.29				
20	16QAM	1	49	23.15	23.14	23.26	23.18				
20	16QAM	1	99	23.18	23.10	23.27	23.21	23.5	2		
20	16QAM	50	0	22.14	22.16	22.26	22.21				
20	16QAM	50	24	22.27	22.28	22.19	22.17				
20	16QAM	50	50	22.34	22.25	22.30	22.30	23.5	2		
20	16QAM	100	0	22.27	22.20	22.29	22.24				
20	64QAM	1	0	22.07	22.05	22.22	22.16				
20	64QAM	1	49	22.11	21.99	22.02	22.02	23.5	2		
20	64QAM	1	99	22.16	21.98	22.13	22.17				
20	64QAM	50	0	21.08	20.99	21.23	21.13				
20	64QAM	50	24	21.22	21.21	21.14	21.11	22.5	3		
20	64QAM	50	50	21.28	21.19	21.25	21.12				
20	64QAM	100	0	21.30	21.32	21.34	21.17				
Channel				40215	40495	40765	41115	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5				
15	QPSK	1	0	24.04	23.86	24.04	23.96	25.5	0		
15	QPSK	1	37	23.93	23.91	23.98	23.99				
15	QPSK	1	74	24.07	23.87	24.11	23.91				
15	QPSK	36	0	23.01	23.08	23.08	23.05	24.5	1		
15	QPSK	36	20	23.14	23.05	23.18	22.97				
15	QPSK	36	39	23.19	23.07	23.19	23.10				
15	QPSK	75	0	23.16	23.16	23.18	23.08	24.5	1		
15	16QAM	1	0	23.19	23.10	23.27	23.19				
15	16QAM	1	37	23.08	23.07	23.09	23.03				
15	16QAM	1	74	23.13	23.03	23.17	23.14	23.5	2		
15	16QAM	36	0	22.05	21.92	22.10	22.08				
15	16QAM	36	20	22.16	22.08	22.18	22.08				
15	16QAM	36	39	22.11	22.10	22.12	22.10	23.5	2		
15	16QAM	75	0	22.23	22.15	22.15	22.03				
15	64QAM	1	0	22.15	22.00	22.17	21.98				
15	64QAM	1	37	22.07							

GSM850 Ant4 DSII

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.14	32.27	32.11	33.50	23.14	23.27	23.11	24.50
GPRS 1 Tx slot	32.19	32.24	31.97	33.50	23.19	23.24	22.97	24.50
GPRS 2 Tx slots	29.66	29.69	29.46	30.50	23.66	23.59	23.46	24.50
GPRS 3 Tx slots	27.64	27.44	27.85	28.50	23.38	23.18	23.59	24.24
GPRS 4 Tx slots	26.48	26.54	26.45	27.50	23.48	23.54	23.45	24.50
EDGE 1 Tx slot	26.11	26.00	25.97	27.50	17.11	17.00	16.97	18.50
EDGE 2 Tx slots	23.36	23.54	23.16	24.50	17.36	17.54	17.16	18.50
EDGE 3 Tx slots	21.47	21.55	21.29	23.00	17.21	17.29	17.03	18.74
EDGE 4 Tx slots	20.09	20.40	20.13	21.50	17.09	17.40	17.13	18.50

GSM1900 Ant4 DSII

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	24.76	24.65	24.78	26.50	15.76	15.65	15.78	17.50
GPRS 1 Tx slot	24.83	24.69	24.68	26.50	15.83	15.69	15.88	17.50
GPRS 2 Tx slots	24.53	24.43	24.35	26.00	15.53	15.43	15.35	20.00
GPRS 3 Tx slots	24.31	24.38	24.04	25.50	20.05	20.12	19.78	21.24
GPRS 4 Tx slots	22.87	23.10	22.81	24.50	19.87	20.10	19.81	21.50
EDGE 1 Tx slot	24.65	24.83	24.77	26.50	15.65	15.83	15.77	17.50
EDGE 2 Tx slots	22.13	22.28	22.03	24.00	16.13	16.28	16.03	18.00
EDGE 3 Tx slots	20.12	20.23	20.11	21.50	15.86	15.97	15.85	17.24
EDGE 4 Tx slots	19.47	19.75	19.52	20.50	16.47	16.75	16.52	17.50

WCDMA II Ant4 DSII

WCDMA IV Ant4 DSII

WCDMA V Ant4 DSII

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1637	1638	1738		4367	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	19.32	19.43	19.14	20.50	20.68	20.82	20.84	21.50	23.21	23.18	23.00	24.50
3GPP Rel 99	RMC 12.2kbps	19.51	19.57	19.42	20.50	20.71	20.90	20.88	21.50	23.19	23.27	23.16	24.50
3GPP Rel 6	HSDPA Subtest-1	18.33	18.46	18.27	19.50	19.91	19.92	20.01	20.50	22.04	22.24	22.11	23.50
3GPP Rel 6	HSDPA Subtest-2	18.37	18.48	18.26	19.50	19.78	19.86	19.83	20.50	22.22	22.24	22.23	23.50
3GPP Rel 6	HSDPA Subtest-3	17.73	17.94	17.61	19.00	19.33	19.45	19.53	20.00	21.51	21.74	21.65	23.00
3GPP Rel 6	HSDPA Subtest-4	17.75	17.90	17.76	19.00	19.30	19.43	19.49	20.00	21.70	21.65	21.77	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.43	18.39	18.22	19.50	19.73	19.79	20.02	20.50	22.05	22.08	22.30	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.26	18.42	18.26	19.50	19.69	19.84	19.74	20.50	22.31	22.19	22.10	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	17.73	17.84	17.54	19.00	19.13	19.35	19.42	20.00	21.48	21.76	21.62	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	17.97	18.02	17.67	19.00	19.08	19.21	19.47	20.00	21.74	21.65	21.61	23.00
3GPP Rel 6	HSUPA Subtest-1	18.33	18.30	18.24	19.50	19.78	19.90	20.00	20.50	22.16	22.23	22.07	23.50
3GPP Rel 6	HSUPA Subtest-2	16.14	16.35	16.20	17.50	17.80	17.91	17.97	18.50	20.10	20.04	19.96	21.50
3GPP Rel 6	HSUPA Subtest-3	17.35	17.29	17.15	18.50	18.78	18.88	18.98	19.50	21.08	21.17	21.08	22.50
3GPP Rel 6	HSUPA Subtest-4	16.37	16.37	16.17	17.50	17.78	17.87	17.99	18.50	20.13	20.06	20.23	21.50
3GPP Rel 6	HSUPA Subtest-5	18.27	18.22	18.10	19.50	19.70	19.90	20.00	20.50	22.06	22.09	22.17	23.50



Band 2 Ant4 DSH1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.58	18.68	18.47				
20	QPSK	1	49	18.51	18.43	18.43	19.5	0		
20	QPSK	1	99	18.41	18.37	18.34				
20	QPSK	50	0	18.52	18.62	18.53				
20	QPSK	50	24	18.57	18.53	18.56	19.5	0		
20	QPSK	50	50	18.54	18.49	18.38				
20	QPSK	100	0	18.63	18.65	18.52				
20	16QAM	1	0	18.59	18.58	18.62				
20	16QAM	1	49	18.60	18.64	18.57	19.5	0		
20	16QAM	1	99	18.57	18.67	18.58				
20	16QAM	50	0	18.61	18.62	18.53				
20	16QAM	50	24	18.62	18.56	18.55	19.5	0		
20	16QAM	50	50	18.60	18.49	18.43				
20	16QAM	100	0	18.64	18.54	18.55				
20	64QAM	1	0	18.56	18.63	18.53				
20	64QAM	1	49	18.59	18.62	18.55	19.5	0		
20	64QAM	1	99	18.64	18.50	18.54				
20	64QAM	50	0	18.57	18.62	18.50				
20	64QAM	50	24	18.67	18.53	18.43	19.5	0		
20	64QAM	50	50	18.56	18.50	18.44				
20	64QAM	100	0	18.64	18.53	18.51				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.39	18.56	18.26				
15	QPSK	1	37	18.43	18.42	18.44	19.5	0		
15	QPSK	1	74	18.39	18.29	18.29				
15	QPSK	36	0	18.33	18.53	18.35				
15	QPSK	36	20	18.49	18.46	18.45	19.5	0		
15	QPSK	36	39	18.50	18.49	18.30				
15	QPSK	75	0	18.41	18.64	18.34				
15	16QAM	1	0	18.52	18.36	18.62				
15	16QAM	1	37	18.39	18.46	18.44	19.5	0		
15	16QAM	1	74	18.50	18.55	18.46				
15	16QAM	36	0	18.62	18.62	18.39				
15	16QAM	36	20	18.63	18.47	18.53	19.5	0		
15	16QAM	36	39	18.38	18.43	18.35				
15	16QAM	75	0	18.43	18.43	18.36				
15	64QAM	1	0	18.55	18.44	18.46				
15	64QAM	1	37	18.43	18.55	18.36	19.5	0		
15	64QAM	1	74	18.63	18.51	18.33				
15	64QAM	36	0	18.37	18.43	18.34				
15	64QAM	36	20	18.65	18.41	18.25	19.5	0		
15	64QAM	36	39	18.47	18.31	18.46				
15	64QAM	75	0	18.58	18.31	18.37				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.39	18.50	18.42				
10	QPSK	1	25	18.51	18.44	18.22	19.5	0		
10	QPSK	1	49	18.24	18.31	18.18				
10	QPSK	25	0	18.52	18.59	18.50				
10	QPSK	25	12	18.49	18.51	18.36	19.5	0		
10	QPSK	25	25	18.32	18.38	18.36				
10	QPSK	50	0	18.60	18.60	18.43				
10	16QAM	1	0	18.54	18.38	18.56				
10	16QAM	1	25	18.56	18.53	18.42	19.5	0		
10	16QAM	1	49	18.52	18.66	18.55				
10	16QAM	25	0	18.46	18.46	18.34				
10	16QAM	25	12	18.56	18.48	18.37	19.5	0		
10	16QAM	25	25	18.56	18.34	18.26				
10	16QAM	50	0	18.66	18.45	18.50				
10	16QAM	50	12	18.56	18.59	18.50	19.5	0		
10	64QAM	1	0	18.56	18.59	18.50				
10	64QAM	1	25	18.57	18.63	18.47	19.5	0		
10	64QAM	1	49	18.53	18.41	18.51				
10	64QAM	25	0	18.53	18.60	18.43				
10	64QAM	25	12	18.55	18.35	18.43	19.5	0		
10	64QAM	25	25	18.40	18.30	18.26				
10	64QAM	50	0	18.57	18.51	18.41				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.36	18.61	18.46				
5	QPSK	1	1	18.45	18.41	18.35	19.5	0		
5	QPSK	1	24	18.29	18.23	18.26				
5	QPSK	12	0	18.35	18.48	18.37				
5	QPSK	12	7	18.54	18.49	18.30	19.5	0		
5	QPSK	12	13	18.44	18.44	18.21				
5	QPSK	25	0	18.59	18.61	18.40				
5	16QAM	1	0	18.39	18.43	18.51				
5	16QAM	1	12	18.40	18.59	18.51	19.5	0		
5	16QAM	1	24	18.38	18.51	18.52				
5	16QAM	12	0	18.58	18.47	18.45				
5	16QAM	12	7	18.54	18.55	18.53	19.5	0		
5	16QAM	12	13	18.54	18.28	18.36				
5	16QAM	25	0	18.61	18.36	18.41				
5	64QAM	1	0	18.47	18.60	18.49				
5	64QAM	1	12	18.42	18.56	18.48	19.5	0		
5	64QAM	1	24	18.58	18.31	18.52				
5	64QAM	12	0	18.37	18.52	18.39				
5	64QAM	12	7	18.52	18.49	18.33	19.5	0		
5	64QAM	12	13	18.51	18.34	18.39				
5	64QAM	25	0	18.65	18.42	18.36				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.48	18.54	18.31				
3	QPSK	1	8	18.52	18.32	18.38	19.5	0		
3	QPSK	1	14	18.36	18.36	18.19				
3	QPSK	8	0	18.39	18.42	18.54				
3	QPSK	8	4	18.54	18.36	18.36	19.5	0		
3	QPSK	8	7	18.54	18.44	18.40				
3	QPSK	15	0	18.63	18.53	18.44				
3	16QAM	1	0	18.51	18.46	18.56				
3	16QAM	1	8	18.60	18.61	18.49	19.5	0		
3	16QAM	1	14	18.41	18.51	18.39				
3	16QAM	8	0	18.63	18.46	18.54				
3	16QAM	8	4	18.60	18.38	18.47	19.5	0		
3	16QAM	8	7	18.50	18.49	18.44				
3	16QAM	15	0	18.61	18.38	18.51				
3	64QAM	1	0	18.54	18.62	18.44				
3	64QAM	1	8	18.39	18.60	18.38	19.5	0		
3	64QAM	1	14	18.52	18.50	18.39				
3	64QAM	8	0	18.41	18.41	18.47				
3	64QAM	8	4	18.61	18.33	18.34	19.5	0		
3	64QAM	8	7	18.39	18.37	18.23				
3	64QAM	15	0	18.45	18.40	18.43				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.31	18.59	18.31				
1.4	QPSK	1	3	18.52	18.35	18.35	19.5	0		
1.4	QPSK	1	5	18.41	18.37	18.31				
1.4	QPSK	3	0	18.40	18.49	18.39				
1.4	QPSK	3	1	18.42	18.46	18.53	19.5	0		
1.4	QPSK	3	3	18.33	18.32	18.34				
1.4	QPSK	6	0	18.65	18.55	18.52				
1.4	16QAM	1	0	18.43	18.43	18.62				
1.4	16QAM	1	3	18.55	18.62	18.39	19.5	0		
1.4	16QAM	1	5	18.54	18.61	18.47				
1.4	16QAM	3	0	18.59	18.60	18.44				
1.4	16QAM	3	1	18.51	18.40	18.40	19.5	0		
1.4	16QAM	3	3	18.40	18.42	18.25				
1.4	16QAM	6	0	18.52	18.53	18.33				
1.4	64QAM	1	0	18.51	18.44	18.32	19.5	0		
1.4	64QAM	1	3	18.41	18.56	18.38				
1.4	64QAM	1	5	18.44	18.52	18.40				
1.4	64QAM	3	0	18.44	18.46	18.38	19.5	0		
1.4	64QAM	3	1	18.55	18.44	18.44				
1.4	64QAM	3	3	18.48	18.43	18.42				
1.4	64QAM	6	0	18.55	18.53					



Band 7 Ant4 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.23	18.30	18.05	19	0		
20	QPSK	1	49	17.99	18.01	18.07				
20	QPSK	1	99	18.05	18.13	18.13				
20	QPSK	50	0	18.09	18.22	18.15	19	0		
20	QPSK	50	24	18.14	18.16	18.21				
20	QPSK	50	50	18.21	18.12	18.13				
20	QPSK	100	0	18.13	18.20	18.12	19	0		
20	16QAM	1	0	18.25	18.26	18.17				
20	16QAM	1	49	18.03	18.10	18.16				
20	16QAM	1	99	18.06	18.23	18.21	19	0		
20	16QAM	50	0	18.11	18.12	18.15				
20	16QAM	50	24	18.21	18.16	18.23				
20	16QAM	50	50	18.21	18.26	18.26	19	0		
20	16QAM	100	0	18.20	18.14	18.16				
20	64QAM	1	0	18.20	18.01	18.11				
20	64QAM	1	49	18.20	18.28	18.16	19	0		
20	64QAM	1	99	18.25	18.13	18.23				
20	64QAM	50	0	18.06	17.98	18.14				
20	64QAM	50	24	18.19	18.16	18.22	19	0		
20	64QAM	50	50	18.21	18.23	18.27				
20	64QAM	100	0	18.21	18.15	18.22				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.11	18.21	17.83	19	0		
15	QPSK	1	37	17.82	17.98	17.88				
15	QPSK	1	74	17.96	18.14	17.95				
15	QPSK	36	0	18.03	18.18	18.01	19	0		
15	QPSK	36	20	18.09	18.15	18.18				
15	QPSK	36	39	18.01	17.99	18.07				
15	QPSK	75	0	18.14	18.15	18.09	19	0		
15	16QAM	1	0	18.11	18.21	17.83				
15	16QAM	1	37	17.94	18.07	17.99				
15	16QAM	1	74	17.89	18.21	18.16	19	0		
15	16QAM	36	0	17.92	18.05	18.03				
15	16QAM	36	20	18.21	18.09	18.01				
15	16QAM	36	39	18.14	18.28	18.27	19	0		
15	16QAM	75	0	18.19	18.04	18.04				
15	64QAM	1	0	18.17	17.88	17.95				
15	64QAM	1	37	18.19	18.14	18.03	19	0		
15	64QAM	1	74	18.22	18.08	18.05				
15	64QAM	36	0	17.97	17.83	18.00				
15	64QAM	36	20	18.20	18.01	18.15	19	0		
15	64QAM	36	39	18.08	18.09	18.11				
15	64QAM	75	0	18.05	18.16	18.24				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.11	18.16	18.03	19	0		
10	QPSK	1	25	17.90	17.99	18.06				
10	QPSK	1	49	17.83	18.09	18.11				
10	QPSK	25	0	17.90	18.22	17.88	19	0		
10	QPSK	25	12	18.06	18.11	18.08				
10	QPSK	25	25	18.18	18.11	17.92				
10	QPSK	50	0	17.96	18.10	18.12	19	0		
10	16QAM	1	0	18.26	18.05	18.02				
10	16QAM	1	25	17.97	18.05	18.04				
10	16QAM	1	49	18.04	18.07	18.06	19	0		
10	16QAM	25	0	17.93	18.01	17.96				
10	16QAM	25	12	17.89	18.13	18.04				
10	16QAM	25	25	18.12	18.22	18.19	19	0		
10	16QAM	50	0	18.05	18.14	18.01				
10	64QAM	1	0	18.06	17.84	18.09				
10	64QAM	1	25	18.07	18.08	18.03	19	0		
10	64QAM	1	49	18.16	18.01	18.21				
10	64QAM	25	0	18.08	18.00	18.14				
10	64QAM	25	12	17.99	17.99	18.09	19	0		
10	64QAM	25	25	18.09	18.12	18.19				
10	64QAM	50	0	18.02	18.07	18.04				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.22	18.10	18.02	19	0		
5	QPSK	1	12	17.83	17.96	17.96				
5	QPSK	1	24	18.00	17.93	18.06				
5	QPSK	12	0	17.94	18.07	18.07	19	0		
5	QPSK	12	7	18.05	18.15	18.23				
5	QPSK	12	13	17.99	18.01	18.06				
5	QPSK	25	0	18.09	18.19	18.14	19	0		
5	16QAM	1	0	18.19	18.16	17.93				
5	16QAM	1	12	18.02	18.10	18.04				
5	16QAM	1	24	17.98	18.15	18.06	19	0		
5	16QAM	12	0	18.05	17.92	18.16				
5	16QAM	12	7	18.01	18.04	18.06				
5	16QAM	12	13	18.19	18.06	18.18	19	0		
5	16QAM	25	0	18.14	18.04	18.05				
5	64QAM	1	0	17.98	17.99	17.95				
5	64QAM	1	12	18.12	18.24	18.04	19	0		
5	64QAM	1	24	18.24	18.10	18.07				
5	64QAM	12	0	18.08	17.98	17.96				
5	64QAM	12	7	18.01	17.86	18.16	19	0		
5	64QAM	12	13	18.09	18.17	18.29				
5	64QAM	25	0	18.16	18.15	18.02				

Band 12 Ant4 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.58	24.76	24.57	25.5	0		
10	QPSK	1	25	24.54	24.54	24.37				
10	QPSK	1	49	24.58	24.60	24.61				
10	QPSK	25	0	23.57	23.78	23.63	24.5	1		
10	QPSK	25	12	23.76	23.61	23.47				
10	QPSK	25	25	23.65	23.61	23.55				
10	QPSK	50	0	23.70	23.73	23.68	24.5	1		
10	16QAM	1	0	24.13	23.82	23.78				
10	16QAM	1	25	23.76	24.06	23.74				
10	16QAM	1	49	23.75	23.83	24.08	23.5	2		
10	16QAM	25	0	22.85	22.56	22.56				
10	16QAM	25	12	22.81	22.75	22.50				
10	16QAM	25	25	22.69	22.58	22.60	23.5	2		
10	16QAM	50	0	22.70	22.65	22.66				
10	64QAM	1	0	22.71	22.72	22.66				
10	64QAM	1	25	22.59	22.75	22.63	22.5	2		
10	64QAM	1	49	22.61	22.88	22.61				
10	64QAM	25	0	21.69	21.62	21.58				
10	64QAM	25	12	21.79	21.62	21.72	22.5	3		
10	64QAM	25	25	21.64	21.58	21.73				
10	64QAM	50	0	21.71	21.56	21.49				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.50	24.75	24.70	25.5	0		
5	QPSK	1	12	24.71	24.68	24.61				
5	QPSK	1	24	24.72	24.74	24.66				
5	QPSK	12	0	23.79	23.81	23.78	24.5	1		
5	QPSK	12	7	23.77	23.83	23.79				
5	QPSK	12	13	23.89	23.80	23.72				
5	QPSK	25	0	23.88	23.75	23.77	24.5	1		
5	16QAM	1	0	23.63	23.78	23.65				
5	16QAM	1	12	23.86	23.77	23.83				
5	16QAM	1	24	23.73	23.87	23.86	23.5	2		
5	16QAM	12	0	22.86	22.82	22.72				
5	16QAM	12	7	22.77	22.86	22.98				
5	16QAM	12	13	22.67	22.79	22.75	23.5	2		
5	16QAM	25	0	22.86	22.72	22.67				
5	64QAM	1	0	23.07	22.89	23.02				
5	64QAM	1	12	22.75	22.90	22.98	23.5	2		
5	64QAM	1	24	22.81	23.07	23.10				
5	64QAM	12	0	21.86	21.75	21.69				
5	64QAM	12	7	22.02	21.74	21.85	22.5	3		
5	64QAM	12	13	21.73	21.85	21.69				
5	64QAM	25	0	21.79	21.73	21.65				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.54	24.72	24.55	25.5	0		
3	QPSK	1	8	24.64	24.66	24.50				
3	QPSK	1	14	24.75	24.45	24.58				
3	QPSK	8	0	23.71	23.65	23.67	24.5	1		
3	QPSK	8	4	23.77	23.70	23.63				
3	QPSK	8	7	23.79	23.65	23.68				
3	QPSK	15	0	23.74	23.62	23.55	24.5	1		
3	16QAM	1	0	23.42	23.79	23.62				
3	16QAM	1	8	23.58	23.61	23.72				
3	16QAM	1	14	23.67	23.59	23.78	23.5	2		
3	16QAM	8	0	22.72	22.83	22.46				
3	16QAM	8	4	22.85	22.78	22.79				
3	16QAM	8	7	22.80	22.79	22.69	23.5	2		
3	64QAM	15	0	22.81	22.63	22.64				
3	64QAM	1	0	22.82	22.81	22.55				
3	64QAM	1	8	22.61	22.75	22.59	22.5	2		
3										



Band 17 Ant4 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				23768	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	24.42	24.74	24.45				
10	QPSK	1	25	24.50	24.45	24.43	25.5	0		
10	QPSK	1	49	24.44	24.51	24.80				
10	QPSK	25	0	23.51	23.67	23.50				
10	QPSK	25	12	23.58	23.53	23.58	24.5	1		
10	QPSK	25	25	23.62	23.61	23.50				
10	QPSK	50	0	23.62	23.65	23.43				
10	16QAM	1	0	23.63	23.51	23.76				
10	16QAM	1	25	23.68	23.64	23.51	24.5	1		
10	16QAM	1	49	23.40	23.70	23.62				
10	16QAM	25	0	22.59	22.58	22.53				
10	16QAM	25	12	22.59	22.43	22.56	23.5	2		
10	16QAM	25	25	22.64	22.73	22.81				
10	16QAM	50	0	22.57	22.64	22.48				
10	64QAM	1	0	22.45	22.50	22.54				
10	64QAM	1	25	22.71	22.57	22.59	23.5	2		
10	64QAM	1	49	22.52	22.54	22.75				
10	64QAM	25	0	21.43	21.70	21.49				
10	64QAM	25	12	21.65	21.80	21.54				
10	64QAM	25	25	21.66	21.55	21.70	22.5	3		
10	64QAM	50	0	21.58	21.52	21.53				
Channel				23758	23790	23825				
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	24.69	24.67	24.46				
5	QPSK	1	12	24.39	24.48	24.37	25.5	0		
5	QPSK	1	24	24.82	24.53	24.41				
5	QPSK	12	0	23.56	23.63	23.52				
5	QPSK	12	7	23.64	23.63	23.33	24.5	1		
5	QPSK	12	13	23.56	23.56	23.68				
5	QPSK	25	0	23.62	23.53	23.50				
5	16QAM	1	0	23.71	23.73	23.68	24.5	1		
5	16QAM	1	12	23.54	23.38	23.69				
5	16QAM	1	24	23.44	23.51	23.42				
5	16QAM	12	0	22.64	22.73	22.66				
5	16QAM	12	7	22.63	22.71	22.85	23.5	2		
5	16QAM	12	13	22.58	22.69	22.50				
5	16QAM	25	0	22.76	22.68	22.60				
5	64QAM	1	0	22.57	22.55	22.73				
5	64QAM	1	12	22.68	22.61	22.45	23.5	2		
5	64QAM	1	24	22.63	22.74	22.82				
5	64QAM	12	0	21.88	21.77	21.50				
5	64QAM	12	7	21.55	21.81	21.45				
5	64QAM	12	13	21.67	21.63	21.76	22.5	3		
5	64QAM	25	0	21.59	21.43	21.58				

Band 26 Ant4 DS11										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	24.42	24.46	24.38				
15	QPSK	1	37	24.36	24.30	24.34	25.5	0		
15	QPSK	1	74	24.38	24.28	24.23				
15	QPSK	36	0	23.52	23.54	23.26				
15	QPSK	36	20	23.30	23.46	23.26	24.5	1		
15	QPSK	36	39	23.31	23.28	23.36				
15	QPSK	75	0	23.39	23.40	23.43				
15	16QAM	1	0	23.35	23.48	23.38				
15	16QAM	1	37	23.24	23.38	23.34	24.5	1		
15	16QAM	1	74	23.29	23.46	23.19				
15	16QAM	36	0	22.44	22.38	22.28				
15	16QAM	36	20	22.40	22.33	22.17	23.5	2		
15	16QAM	36	39	22.35	22.38	22.17				
15	16QAM	75	0	22.42	22.37	22.28				
15	64QAM	1	0	22.32	22.54	22.38				
15	64QAM	1	37	22.21	22.36	22.20	23.5	2		
15	64QAM	1	74	22.33	22.41	22.31				
15	64QAM	36	0	21.43	21.55	21.49				
15	64QAM	36	20	21.33	21.32	21.35	22.5	3		
15	64QAM	36	39	21.36	21.29	21.28				
15	64QAM	75	0	21.32	21.47	21.47				
Channel				26740	26865	26990				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.37	24.35	24.35				
10	QPSK	1	25	24.21	24.21	24.25	25.5	0		
10	QPSK	1	49	24.25	24.26	24.07				
10	QPSK	25	0	23.39	23.45	23.11				
10	QPSK	25	12	23.23	23.44	23.23	24.5	1		
10	QPSK	25	25	23.12	23.10	23.35				
10	QPSK	50	0	23.36	23.43	23.32				
10	16QAM	1	0	23.35	23.32	23.20				
10	16QAM	1	25	23.18	23.16	23.18	24.5	1		
10	16QAM	1	49	23.09	23.42	23.07				
10	16QAM	25	0	22.40	22.18	22.21				
10	16QAM	25	12	22.21	22.28	22.07	23.5	2		
10	16QAM	25	25	22.27	22.19	22.09				
10	16QAM	50	0	22.33	22.36	22.16				
10	64QAM	1	0	22.28	22.30	22.28				
10	64QAM	1	25	22.04	22.27	22.15	23.5	2		
10	64QAM	1	49	22.13	22.33	22.14				
10	64QAM	25	0	21.41	21.38	21.39				
10	64QAM	25	12	21.29	21.16	21.20	22.5	3		
10	64QAM	25	25	21.26	21.28	21.18				
10	64QAM	50	0	21.16	21.43	21.34				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.32	24.39	24.22				
5	QPSK	1	12	24.29	24.24	24.41	25.5	0		
5	QPSK	1	24	24.25	24.20	24.20				
5	QPSK	12	0	23.35	23.54	23.22				
5	QPSK	12	7	23.29	23.45	23.32	24.5	1		
5	QPSK	12	13	23.16	23.19	23.29				
5	QPSK	25	0	23.30	23.37	23.64				
5	16QAM	1	0	23.24	23.32	23.39	24.5	1		
5	16QAM	1	12	23.22	23.34	23.37				
5	16QAM	1	24	23.12	23.33	23.12				
5	16QAM	12	0	22.30	22.41	22.26				
5	16QAM	12	7	22.40	22.33	22.15	23.5	2		
5	16QAM	12	13	22.20	22.25	22.08				
5	16QAM	25	0	22.49	22.30	22.23				
5	64QAM	1	0	22.31	22.51	22.44				
5	64QAM	1	12	22.27	22.31	22.23	23.5	2		
5	64QAM	1	24	22.70	22.38	22.25				
5	64QAM	12	0	21.34	21.43	21.48				
5	64QAM	12	7	21.32	21.32	21.40	22.5	3		
5	64QAM	12	13	21.32	21.33	21.11				
5	64QAM	25	0	21.22	21.40	21.48				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.43	24.33	24.42				
3	QPSK	1	8	24.21	24.14	24.37	25.5	0		
3	QPSK	1	14	24.39	24.33	24.10				
3	QPSK	8	0	23.43	23.41	23.31				
3	QPSK	8	4	23.21	23.49	23.12	24.5	1		
3	QPSK	8	7	23.21	23.34	23.25				
3	QPSK	15	0	23.30	23.30	23.33				
3	16QAM	1	0	23.23	23.41	23.32				
3	16QAM	1	8	23.13	23.34	23.38	24.5	1		
3	16QAM	1	14	23.24	23.41	23.22				
3	16QAM	8	0	22.38	22.30	22.20				
3	16QAM	8	4	22.28	22.16	22.07	23.5	2		
3	16QAM	8								



Band 38 Ant4 DS11												
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	19.77	19.99	19.82	20.5	0				
20	QPSK	1	49	19.84	19.83	19.87						
20	QPSK	1	99	19.83	19.85	19.83						
20	QPSK	50	0	19.86	19.96	19.87						
20	QPSK	50	24	19.88	19.90	19.83	20.5	0				
20	QPSK	50	50	19.94	19.95	19.94						
20	QPSK	100	0	19.93	19.94	19.85						
20	16QAM	1	0	19.93	19.96	19.96						
20	16QAM	1	49	19.83	19.94	19.83	20.5	0				
20	16QAM	1	99	19.89	19.82	19.97						
20	16QAM	50	0	19.85	19.89	19.88						
20	16QAM	50	24	19.94	19.91	19.86						
20	16QAM	50	50	19.97	19.95	19.92	20.5	0				
20	16QAM	100	0	19.97	19.97	19.87						
20	64QAM	1	0	19.64	19.66	19.68						
20	64QAM	1	49	19.76	19.74	19.72						
20	64QAM	1	99	19.75	19.73	19.64	20.5	0				
20	64QAM	50	0	19.79	19.82	19.82						
20	64QAM	50	24	19.93	19.86	19.95						
20	64QAM	50	50	19.92	19.91	19.91						
20	64QAM	100	0	19.87	19.86	19.92	20.5	0				
Channel				37825	38000	38175						
Frequency (MHz)				2577.5	2595	2612.5						
15	QPSK	1	0	19.71	19.89	19.80			20.5	0		
15	QPSK	1	37	19.71	19.75	19.88						
15	QPSK	1	74	19.61	19.68	19.81						
15	QPSK	36	0	19.76	19.81	19.71						
15	QPSK	36	20	19.79	19.73	19.78	20.5	0				
15	QPSK	36	39	19.77	19.81	19.86						
15	QPSK	75	0	19.89	19.94	19.83						
15	16QAM	1	0	19.87	19.90	19.87						
15	16QAM	1	37	19.68	19.93	19.84	20.5	0				
15	16QAM	1	74	19.86	19.68	19.95						
15	16QAM	36	0	19.63	19.80	19.87						
15	16QAM	36	20	19.91	19.83	19.69						
15	16QAM	36	39	19.95	19.96	19.82	20.5	0				
15	16QAM	75	0	19.84	19.86	19.79						
15	64QAM	1	0	19.53	19.58	19.57						
15	64QAM	1	37	19.63	19.73	19.73						
15	64QAM	1	74	19.58	19.55	19.64	20.5	0				
15	64QAM	36	0	19.72	19.62	19.67						
15	64QAM	36	20	19.72	19.76	19.74						
15	64QAM	36	39	19.83	19.87	19.83						
15	64QAM	75	0	19.82	19.70	19.82	20.5	0				
Channel				37800	38000	38200						
Frequency (MHz)				2675	2695	2615						
10	QPSK	1	0	19.69	19.79	19.75			20.5	0		
10	QPSK	1	25	19.66	19.78	19.73						
10	QPSK	1	49	19.81	19.75	19.63						
10	QPSK	25	0	19.64	19.89	19.83						
10	QPSK	25	12	19.68	19.90	19.68	20.5	0				
10	QPSK	25	25	19.91	19.90	19.76						
10	QPSK	50	0	19.83	19.82	19.85						
10	16QAM	1	0	19.72	19.89	19.94						
10	16QAM	1	25	19.62	19.83	19.72	20.5	0				
10	16QAM	1	49	19.71	19.64	19.88						
10	16QAM	25	0	19.84	19.70	19.70						
10	16QAM	25	12	19.76	19.93	19.87						
10	16QAM	25	25	19.93	19.82	19.93	20.5	0				
10	16QAM	50	0	19.86	19.93	19.71						
10	64QAM	1	0	19.62	19.57	19.67						
10	64QAM	1	25	19.63	19.66	19.68						
10	64QAM	1	49	19.73	19.70	19.62	20.5	0				
10	64QAM	25	0	19.65	19.78	19.61						
10	64QAM	25	12	19.79	19.68	19.79						
10	64QAM	25	25	19.76	19.91	19.70						
10	64QAM	50	0	19.75	19.72	19.94	20.5	0				
Channel				37775	38000	38225						
Frequency (MHz)				2572.5	2595	2617.5						
5	QPSK	1	0	19.63	19.81	19.65			20.5	0		
5	QPSK	1	12	19.79	19.73	19.71						
5	QPSK	1	24	19.70	19.67	19.82						
5	QPSK	12	0	19.82	19.88	19.88						
5	QPSK	12	7	19.87	19.86	19.63	20.5	0				
5	QPSK	12	13	19.77	19.84	19.82						
5	QPSK	25	0	19.75	19.75	19.71						
5	16QAM	1	0	19.85	19.95	19.92						
5	16QAM	1	12	19.82	19.76	19.66	20.5	0				
5	16QAM	1	24	19.74	19.78	19.86						
5	16QAM	12	0	19.78	19.69	19.82						
5	16QAM	12	7	19.80	19.81	19.78						
5	16QAM	12	13	19.94	19.85	19.86	20.5	0				
5	16QAM	25	0	19.94	19.82	19.77						
5	64QAM	1	0	19.47	19.50	19.54						
5	64QAM	1	12	19.56	19.67	19.59						
5	64QAM	1	24	19.53	19.55	19.59	20.5	0				
5	64QAM	12	0	19.58	19.80	19.78						
5	64QAM	12	7	19.93	19.76	19.91						
5	64QAM	12	13	19.85	19.85	19.90						
5	64QAM	25	0	19.73	19.72	19.80	20.5	0				

Band 41 (2.6G Band) Ant4 DS11												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel				40240	40500	40770	41090					
Frequency (MHz)				2555	2581	2608	2640					
20	QPSK	1	0	20.58	20.61	20.92	20.73	21.5	0			
20	QPSK	1	49	20.58	20.64	20.75	20.67					
20	QPSK	1	99	20.59	20.66	20.76	20.67					
20	QPSK	50	0	20.72	20.77	20.90	20.80					
20	QPSK	50	24	20.78	20.87	20.86	20.77	21.5	0			
20	QPSK	50	50	20.77	20.85	20.75	20.83					
20	QPSK	100	0	20.78	20.85	20.85	20.75					
20	16QAM	1	0	20.75	20.80	20.82	20.83					
20	16QAM	1	49	20.70	20.79	20.88	20.83	21.5	0			
20	16QAM	1	99	20.71	20.81	20.78	20.84					
20	16QAM	50	0	20.73	20.78	20.90	20.82					
20	16QAM	50	24	20.84	20.90	20.78	20.83					
20	16QAM	50	50	20.81	20.88	20.83	20.85	21.5	0			
20	16QAM	100	0	20.82	20.90	20.86	20.79					
20	64QAM	1	0	20.54	20.55	20.78	20.66					
20	64QAM	1	49	20.54	20.55	20.69	20.56					
20	64QAM	1	99	20.52	20.61	20.70	20.60	21.5	0			
20	64QAM	50	0	19.69	19.76	19.84	19.77					
20	64QAM	50	24	19.78	19.85	19.91	19.74					
20	64QAM	50	50	19.76	19.84	19.87	19.81					
20	64QAM	100	0	19.85	19.95	19.89	19.85	20.5	1			
Channel				40215	40495	40765	41115					
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5					
15	QPSK	1	0	20.56	20.52	20.76	20.59			21.5	0	
15	QPSK	1	37	20.39	20.52	20.66	20.63					
15	QPSK	1	74	20.56	20.48	20.76	20.49					
15	QPSK	36	0	20.64	20.67	20.82	20.64					
15	QPSK	36	20	20.60	20.78	20.75	20.58	21.5	0			
15	QPSK	36	39	20.71	20.83	20.73	20.70					
15	QPSK	75	0	20.66	20.67	20.85	20.58					
15	16QAM	1	0	20.64	20.66	20.63	20.76					
15	16QAM	1	37	20.59	20.68	20.77	20.81	21.5	0			
15	16QAM	1	74	20.61	20.68	20.64	20.77					
15	16QAM	36	0	20.56	20.64	20.77	20.80					
15	16QAM	36	20	20.72	20.71	20.73	20.77					
15	16QAM	36	39	20.75	20.75	20.63	20.78	21.5	0			
15	16QAM	75	0	20.75	20.84	20.70	20.65					
15	64QAM	1	0	20.47	20.54	20.72	20.53					
15	64QAM	1	37	20.42	20.49	20.67	20.47					
15	64QAM	1	74	20.48	20.54	20.61	20.47	21.5	0			
15	64QAM	36	0	19.57	19.75	19.78	19.74					
15	64QAM	36	20	19.71	19.76	19.74	19.56					
15	64QAM	36	39	19.67	19.74	19.72	19.62					
15	64QAM	75	0	19.75	19.95	19.82	19.73	20.5	1			
Channel				40190	40490	40790	41140					
Frequency (MHz)				2550	2580	2610	2645					
10	QPSK	1	0	20.44	20.50	20.79	20.59			21.5	0	
10	QPSK	1	25	20.49	20.57	20.57	20.50					
10	QPSK	1	49	20.58	20.48	2						



Band 42 Part27Q Ant5 DSI1									
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				42190	42590	42990	21.5	0	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.17	20.27	20.18	21.5	0	
20	QPSK	1	49	20.05	20.16	20.07			
20	QPSK	1	99	20.08	20.13	20.05			
20	QPSK	50	0	20.12	20.23	20.12	21.5	0	
20	QPSK	50	24	20.11	20.18	20.12			
20	QPSK	50	50	20.16	20.18	20.16			
20	QPSK	100	0	20.17	20.19	20.11	21.5	0	
20	16QAM	1	0	20.05	20.10	20.06			
20	16QAM	1	49	20.03	20.11	20.02			
20	16QAM	1	99	20.12	20.16	20.09	21.5	0	
20	16QAM	50	0	20.11	20.19	20.17			
20	16QAM	50	24	20.13	20.18	20.13			
20	16QAM	50	50	20.13	20.20	20.10	21.5	0	
20	16QAM	100	0	20.08	20.19	20.15			
20	64QAM	1	0	19.58	19.66	19.61			
20	64QAM	1	49	19.70	19.71	19.66	21.5	0	
20	64QAM	1	99	19.69	19.79	19.72			
20	64QAM	50	0	20.18	20.22	20.14			
20	64QAM	50	24	20.19	20.24	20.14	21.5	0	
20	64QAM	50	50	20.10	20.21	20.11			
20	64QAM	100	0	20.06	20.16	20.15			
Channel				42165	42590	43015	21.5	0	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.08	20.23	20.09	21.5	0	
15	QPSK	1	37	20.01	20.06	20.02			
15	QPSK	1	74	20.00	20.06	20.04			
15	QPSK	36	0	20.05	20.11	20.07	21.5	0	
15	QPSK	36	20	20.07	20.17	20.09			
15	QPSK	36	39	20.15	20.22	20.08			
15	QPSK	75	0	20.15	20.13	20.09	21.5	0	
15	16QAM	1	0	19.97	20.06	20.01			
15	16QAM	1	37	19.97	20.09	19.99			
15	16QAM	1	74	20.11	20.06	20.06	21.5	0	
15	16QAM	36	0	20.05	20.15	20.15			
15	16QAM	36	20	20.02	20.12	20.02			
15	16QAM	36	39	20.03	20.14	20.02	21.5	0	
15	16QAM	75	0	20.03	20.16	20.11			
15	64QAM	1	0	19.53	19.64	19.57			
15	64QAM	1	37	19.61	19.66	19.55	21.5	0	
15	64QAM	1	74	19.66	19.74	19.68			
15	64QAM	36	0	20.09	20.13	20.10			
15	64QAM	36	20	20.10	20.22	20.05	21.5	0	
15	64QAM	36	39	20.09	20.19	20.09			
15	64QAM	75	0	20.04	20.07	20.05			
Channel				42140	42590	43040	21.5	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.07	20.25	20.16	21.5	0	
10	QPSK	1	25	20.04	20.14	20.00			
10	QPSK	1	49	20.01	20.04	19.99			
10	QPSK	25	0	20.03	20.08	20.11	21.5	0	
10	QPSK	25	12	20.06	20.16	20.04			
10	QPSK	25	25	20.09	20.14	20.06			
10	QPSK	50	0	20.09	20.17	20.03	21.5	0	
10	16QAM	1	0	20.03	20.02	20.01			
10	16QAM	1	25	19.98	20.00	19.96			
10	16QAM	1	49	20.06	20.08	20.06	21.5	0	
10	16QAM	25	0	20.07	20.13	20.10			
10	16QAM	25	12	20.10	20.08	20.09			
10	16QAM	25	25	20.08	20.14	20.06	21.5	0	
10	16QAM	50	0	19.98	20.12	20.04			
10	64QAM	1	0	19.53	19.64	19.52			
10	64QAM	1	25	19.61	19.67	19.64	21.5	0	
10	64QAM	1	49	19.67	19.75	19.66			
10	64QAM	25	0	20.08	20.19	20.08			
10	64QAM	25	12	20.14	20.22	20.04	21.5	0	
10	64QAM	25	25	20.02	20.13	20.02			
10	64QAM	50	0	19.98	20.15	20.07			
Channel				42115	42590	43065	21.5	0	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.16	20.17	20.16	21.5	0	
5	QPSK	1	12	19.94	20.15	19.99			
5	QPSK	1	24	20.04	20.06	19.96			
5	QPSK	12	0	20.11	20.12	20.02	21.5	0	
5	QPSK	12	7	20.03	20.16	20.07			
5	QPSK	12	13	20.10	20.12	20.11			
5	QPSK	25	0	20.10	20.10	20.07	21.5	0	
5	16QAM	1	0	19.96	20.04	19.99			
5	16QAM	1	12	19.93	20.08	19.93			
5	16QAM	1	24	20.03	20.07	20.06	21.5	0	
5	16QAM	12	0	20.04	20.18	20.14			
5	16QAM	12	7	20.08	20.08	20.12			
5	16QAM	12	13	20.06	20.09	20.02	21.5	0	
5	16QAM	25	0	20.04	20.09	20.09			
5	64QAM	1	0	19.56	19.56	19.54			
5	64QAM	1	12	19.68	19.63	19.57	21.5	0	
5	64QAM	1	24	19.68	19.73	19.67			
5	64QAM	12	0	20.16	20.18	20.05			
5	64QAM	12	7	20.14	20.16	20.07	21.5	0	
5	64QAM	12	13	20.05	20.18	20.10			
5	64QAM	25	0	20.04	20.09	20.11			



GSM850 Ant0 DS12

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50
GSM 1 Tx slot	32.15	32.10	31.97	33.50	23.15	23.10	22.97	24.50
GPRS 1 Tx slot	32.21	32.04	31.89	33.50	23.21	23.04	22.89	24.50
GPRS 2 Tx slots	29.43	29.46	29.27	30.50	23.43	23.46	23.27	24.50
GPRS 3 Tx slots	27.33	27.74	27.67	28.50	23.07	23.48	23.41	24.24
GPRS 4 Tx slots	26.00	26.32	26.30	27.50	23.00	23.32	23.30	24.50
EDGE 1 Tx slot	25.94	25.96	25.85	27.50	16.94	16.96	16.85	18.50
EDGE 2 Tx slots	23.17	23.11	23.14	24.50	17.17	17.11	17.14	18.50
EDGE 3 Tx slots	21.19	21.24	21.16	23.00	16.93	16.98	16.90	18.74
EDGE 4 Tx slots	19.84	20.12	20.03	21.50	16.84	17.12	17.03	18.50

GSM1900 Ant0 DS12

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	21.50
GSM 1 Tx slot	29.27	29.33	29.21	30.50	20.27	20.33	20.21	21.50
GPRS 1 Tx slot	29.34	29.28	29.10	30.50	20.34	20.28	20.10	21.50
GPRS 2 Tx slots	26.70	26.64	26.39	27.50	20.70	20.64	20.39	21.50
GPRS 3 Tx slots	24.83	24.82	24.61	25.50	20.37	20.56	20.35	21.24
GPRS 4 Tx slots	23.17	23.52	23.43	24.50	20.17	20.52	20.43	21.50
EDGE 1 Tx slot	25.23	25.39	25.18	26.50	16.23	16.39	16.18	17.50
EDGE 2 Tx slots	22.51	22.45	22.27	24.00	16.51	16.45	16.27	18.00
EDGE 3 Tx slots	19.92	19.82	19.73	21.50	15.66	15.56	15.47	17.24
EDGE 4 Tx slots	19.97	19.69	19.85	20.50	16.97	16.69	16.85	17.50

WCDMA II Ant0 DS12

WCDMA IV Ant0 DS12

WCDMA V Ant0 DS12

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	24.50	1637	1638	1738	4357	4407	4458	24.50	
Frequency (MHz)	1852.4	1880	1907.6	24.50	1712.4	1732.6	1752.6	826.4	836.4	846.6	24.50	
3GPP Rel 99 AMR 12.2kbps	24.38	24.33	24.31	25.50	24.10	24.13	24.11	25.50	24.71	24.74	24.72	25.50
3GPP Rel 99 RMC 12.2kbps	24.40	24.43	24.36	25.50	24.14	24.17	24.09	25.50	24.75	24.78	24.69	25.50
3GPP Rel 6 HSDPA Subtest-1	23.80	23.83	23.81	24.50	23.21	23.20	23.05	24.50	23.76	23.81	23.54	24.50
3GPP Rel 6 HSDPA Subtest-2	23.77	23.82	23.80	24.50	23.23	23.18	23.11	24.50	23.82	23.69	23.58	24.50
3GPP Rel 6 HSDPA Subtest-3	22.96	23.26	23.30	24.00	22.72	22.68	22.59	24.00	23.33	23.29	23.20	24.00
3GPP Rel 6 HSDPA Subtest-4	23.31	23.32	23.27	24.00	22.71	22.73	22.61	24.00	23.32	23.34	23.22	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	23.85	23.80	23.79	24.50	23.06	23.08	22.93	24.50	23.82	23.87	23.56	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	23.77	23.87	23.86	24.50	23.11	23.06	22.98	24.50	23.87	23.74	23.56	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	23.02	23.22	23.25	24.00	22.60	22.56	22.47	24.00	23.37	23.30	23.21	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	23.27	23.37	23.29	24.00	22.59	22.61	22.49	24.00	23.38	23.31	23.18	24.00
3GPP Rel 6 HSUPA Subtest-1	23.46	23.45	23.37	24.50	23.17	23.17	23.05	24.50	23.69	23.75	23.66	24.50
3GPP Rel 6 HSUPA Subtest-2	21.42	21.43	21.33	22.50	21.17	21.18	21.03	22.50	21.78	21.79	21.67	22.50
3GPP Rel 6 HSUPA Subtest-3	22.44	22.47	22.34	23.50	22.19	22.16	22.03	23.50	22.80	22.77	22.64	23.50
3GPP Rel 6 HSUPA Subtest-4	21.45	21.46	21.28	22.50	21.12	21.17	21.09	22.50	21.73	21.78	21.70	22.50
3GPP Rel 6 HSUPA Subtest-5	23.40	23.50	23.40	24.50	23.90	23.90	23.50	24.50	23.78	23.74	23.40	24.50



ORUENLÜ LER

Band 2 Ant0 DS2E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.02	23.31	23.08				
20	QPSK	1	49	23.10	23.05	23.23	24.5	0		
20	QPSK	1	99	23.23	22.99	22.99				
20	QPSK	50	0	22.17	22.29	22.13				
20	QPSK	50	24	22.22	22.11	21.97	23.5	1		
20	QPSK	100	0	22.26	22.31	22.13				
20	16QAM	1	0	21.97	21.99	22.25				
20	16QAM	1	49	21.95	22.18	22.26	23.5	1		
20	16QAM	1	99	22.09	22.20	22.01				
20	16QAM	50	0	21.27	21.07	21.11				
20	16QAM	50	24	21.26	21.25	21.13	22.5	2		
20	16QAM	50	50	21.25	21.22	21.00				
20	16QAM	100	0	21.21	21.07	21.11				
20	64QAM	1	0	21.04	21.27	21.09				
20	64QAM	1	49	20.89	21.16	20.83	22.5	2		
20	64QAM	1	99	21.05	20.89	21.17				
20	64QAM	50	0	20.25	20.14	20.14				
20	64QAM	50	24	20.27	20.10	20.04	21.5	3		
20	64QAM	50	50	20.21	20.12	19.97				
20	64QAM	100	0	20.29	20.09	20.11				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.16	23.28	23.18				
15	QPSK	1	37	23.27	23.17	23.11	24.5	0		
15	QPSK	1	74	23.20	23.12	23.04				
15	QPSK	36	0	22.22	22.22	22.15				
15	QPSK	36	20	22.24	22.19	22.13	23.5	1		
15	QPSK	36	39	22.26	22.06	22.10				
15	QPSK	75	0	22.25	22.14	22.11				
15	16QAM	1	0	22.42	22.14	22.17	23.5	1		
15	16QAM	1	37	22.30	22.24	22.17				
15	16QAM	1	74	22.45	22.34	22.39				
15	16QAM	36	0	21.31	21.15	21.12				
15	16QAM	36	20	21.16	21.14	21.13	22.5	2		
15	16QAM	36	39	21.16	21.16	21.11				
15	64QAM	75	0	21.24	21.11	21.17				
15	64QAM	1	0	21.10	21.25	21.28				
15	64QAM	1	37	21.29	21.08	21.17	22.5	2		
15	64QAM	1	74	21.12	21.22	21.29				
15	64QAM	36	0	20.19	20.11	20.12				
15	64QAM	36	20	20.23	20.21	20.16	21.5	3		
15	64QAM	36	39	20.18	20.12	19.98				
15	64QAM	75	0	20.18	20.18	20.05				
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.23	23.29	23.25				
10	QPSK	1	25	23.24	23.14	23.24	24.5	0		
10	QPSK	1	49	23.15	22.92	23.00				
10	QPSK	25	0	22.39	22.27	22.22				
10	QPSK	25	12	22.30	22.30	22.33	23.5	1		
10	QPSK	25	25	22.33	22.23	22.22				
10	QPSK	50	0	22.39	22.26	22.24				
10	16QAM	1	0	22.28	22.22	22.39				
10	16QAM	1	25	22.42	22.45	22.15	23.5	1		
10	16QAM	1	49	22.26	22.37	22.23				
10	16QAM	25	0	21.45	21.25	21.25				
10	16QAM	25	12	21.40	21.32	21.23	22.5	2		
10	16QAM	25	25	21.25	21.20	21.03				
10	16QAM	50	0	21.39	21.21	21.30				
10	64QAM	1	0	21.44	21.33	21.37				
10	64QAM	1	25	21.34	21.13	21.37	22.5	2		
10	64QAM	1	49	21.32	21.11	21.28				
10	64QAM	25	0	20.34	20.31	20.34				
10	64QAM	25	12	20.33	20.23	20.24	21.5	3		
10	64QAM	25	25	20.28	20.19	20.05				
10	64QAM	50	0	20.30	20.33	20.29				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.25	23.27	22.98				
5	QPSK	1	12	23.30	23.02	23.02	24.5	0		
5	QPSK	1	24	23.17	23.00	23.03				
5	QPSK	12	0	22.32	22.34	22.25				
5	QPSK	12	7	22.28	22.37	22.26	23.5	1		
5	QPSK	12	13	22.34	22.22	22.16				
5	QPSK	25	0	22.33	22.29	22.15				
5	16QAM	1	0	22.15	22.15	22.15	23.5	1		
5	16QAM	1	12	22.32	22.21	22.20				
5	16QAM	1	24	22.31	22.53	22.45				
5	16QAM	12	0	21.28	21.29	21.33				
5	16QAM	12	7	21.83	21.48	21.21	22.5	2		
5	16QAM	12	13	21.41	21.22	21.25				
5	64QAM	25	0	21.47	21.29	21.22				
5	64QAM	25	0	21.38	21.27	21.53				
5	64QAM	1	12	21.41	21.34	21.21	22.5	2		
5	64QAM	1	24	21.36	21.40	21.30				
5	64QAM	12	0	20.43	20.42	20.35				
5	64QAM	12	7	20.26	20.31	20.23	21.5	3		
5	64QAM	12	13	20.33	20.11	20.32				
5	64QAM	25	0	20.34	20.20	20.23				
Channel										
Frequency (MHz)										
3	QPSK	1	0	23.17	23.30	23.09				
3	QPSK	1	8	23.15	23.24	23.12	24.5	0		
3	QPSK	1	14	23.24	23.18	23.06				
3	QPSK	8	0	22.18	22.21	22.04				
3	QPSK	8	4	22.18	22.22	21.99	23.5	1		
3	QPSK	8	7	22.10	22.08	22.01				
3	QPSK	15	0	22.14	22.13	21.98				
3	16QAM	1	0	22.38	22.49	22.17				
3	16QAM	1	8	22.19	22.40	22.18	23.5	1		
3	16QAM	1	14	22.13	22.50	22.22				
3	16QAM	8	0	21.15	21.35	21.19				
3	16QAM	8	4	21.14	21.20	21.16	22.5	2		
3	16QAM	8	7	21.30	21.12	21.25				
3	16QAM	15	0	21.20	21.13	21.22				
3	64QAM	1	0	21.31	21.39	21.27				
3	64QAM	1	8	21.36	21.17	21.26	22.5	2		
3	64QAM	1	14	21.25	21.38	21.09				
3	64QAM	8	0	20.30	20.20	20.21				
3	64QAM	8	4	20.03	20.13	20.05	21.5	3		
3	64QAM	8	7	20.31	20.16	20.09				
3	64QAM	15	0	20.18	20.21	19.95				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.06	23.26	22.86				
1.4	QPSK	1	3	23.03	23.06	22.98	24.5	0		
1.4	QPSK	1	5	22.95	23.07	22.85				
1.4	QPSK	3	0	23.09	23.19	23.02				
1.4	QPSK	3	1	23.15	23.20	23.30				
1.4	QPSK	3	3	23.16	22.97	22.91	23.5	1		
1.4	16QAM	6	0	22.26	22.18	22.06				
1.4	16QAM	1	0	22.41	22.35	22.07				
1.4	16QAM	1	3	22.28	22.32	22.23	23.5	1		
1.4	16QAM	1	5	22.21	22.24	22.14				
1.4	16QAM	3	0	22.32	22.25	21.98				
1.4	16QAM	3	1	22.21	21.95	22.08				
1.4	16QAM	3	3	22.18	22.13	22.05	22.5	2		
1.4	64QAM	6	0	21.15	21.34	20.93				
1.4	64QAM	1	0	21.35	21.29	21.15				
1.4	64QAM	1	3	21.23	21.40	21.27	22.5	2		
1.4	64QAM	1	5	21.19	21.25	21.32				
1.4	64QAM	3	0	21.33	21.38	21.20				
1.4	64QAM	3	1	21.25	21.24	21.21				
1.4	64QAM	3	3	21.30	21.21	21.10	21.5	3		

Band 4 Ant0 DS2E										
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										



Band 7 Ant0 DS12										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.18	24.30	24.34				
20	QPSK	1	49	24.21	24.30	24.17	25.5	0		
20	QPSK	1	99	24.26	24.32	24.35				
20	QPSK	50	0	23.19	23.56	23.27				
20	QPSK	50	24	23.49	23.45	23.44	24.5	1		
20	QPSK	50	50	23.52	23.48	23.44				
20	QPSK	100	0	23.35	23.45	23.33				
20	16QAM	1	0	23.22	23.39	23.41				
20	16QAM	1	49	23.28	23.33	23.20	24.5	1		
20	16QAM	1	99	23.36	23.33	23.18				
20	16QAM	50	0	22.41	22.26	22.25				
20	16QAM	50	24	22.46	22.38	22.37				
20	16QAM	50	50	22.43	22.49	22.48	23.5	2		
20	16QAM	100	0	22.39	22.36	22.41				
20	64QAM	1	0	22.24	22.37	22.34				
20	64QAM	1	49	22.55	22.42	22.40	23.5	2		
20	64QAM	1	99	22.57	22.27	22.31				
20	64QAM	50	0	21.34	21.29	21.31				
20	64QAM	50	24	21.49	21.36	21.40	22.5	3		
20	64QAM	50	50	21.51	21.47	21.41				
20	64QAM	100	0	21.40	21.39	21.36				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.11	24.21	24.05				
15	QPSK	1	37	23.99	24.27	24.22	25.5	0		
15	QPSK	1	74	24.25	24.33	24.22				
15	QPSK	36	0	23.21	23.31	23.32				
15	QPSK	36	20	23.35	23.34	23.22	24.5	1		
15	QPSK	36	39	23.40	23.29	23.34				
15	QPSK	75	0	23.34	23.36	23.34				
15	16QAM	1	0	22.26	22.30	22.38				
15	16QAM	1	37	22.19	22.28	22.08	24.5	1		
15	16QAM	1	74	22.50	22.33	22.01				
15	16QAM	36	0	22.29	22.23	22.29				
15	16QAM	36	20	22.40	22.36	22.33	23.5	2		
15	16QAM	36	39	22.30	22.36	22.35				
15	16QAM	75	0	22.28	22.30	22.38				
15	64QAM	1	0	22.16	22.26	22.13				
15	64QAM	1	37	22.39	22.24	22.19	23.5	2		
15	64QAM	1	74	22.31	22.05	22.09				
15	64QAM	36	0	21.24	21.26	21.28				
15	64QAM	36	20	21.32	21.39	21.26	22.5	3		
15	64QAM	36	39	21.40	21.31	21.33				
15	64QAM	75	0	21.39	21.35	21.27				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.29	24.10	24.11				
10	QPSK	1	25	24.05	24.25	24.36	25.5	0		
10	QPSK	1	49	24.11	24.25	24.26				
10	QPSK	25	0	23.28	23.09	23.19	24.5	1		
10	QPSK	25	12	23.05	23.18	23.15				
10	QPSK	25	25	23.04	23.18	23.08				
10	QPSK	50	0	23.23	23.06	23.00				
10	16QAM	1	0	23.05	23.17	23.02	24.5	1		
10	16QAM	1	25	23.19	23.02	23.08				
10	16QAM	1	49	23.16	23.17	23.05				
10	16QAM	25	0	22.05	22.18	22.08				
10	16QAM	25	12	22.23	22.20	22.25	23.5	2		
10	16QAM	25	25	22.31	22.13	22.34				
10	16QAM	50	0	22.36	22.31	22.42				
10	64QAM	1	0	22.11	22.18	22.24				
10	64QAM	1	25	22.17	22.20	22.10	23.5	2		
10	64QAM	1	49	22.14	22.29	22.06				
10	64QAM	25	0	21.05	21.08	21.19				
10	64QAM	25	12	21.36	21.02	21.18	22.5	3		
10	64QAM	25	25	21.23	21.06	21.16				
10	64QAM	50	0	21.08	21.38	21.08				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.32	24.27	24.25				
5	QPSK	1	12	24.13	24.37	24.23	25.5	0		
5	QPSK	1	24	24.35	24.32	24.36				
5	QPSK	12	0	23.28	23.31	23.24	24.5	1		
5	QPSK	12	7	23.32	23.31	23.23				
5	QPSK	12	13	23.45	23.41	23.45				
5	QPSK	25	0	23.33	23.34	23.38				
5	16QAM	1	0	23.20	23.37	23.25	24.5	1		
5	16QAM	1	12	23.15	23.28	23.23				
5	16QAM	1	24	23.26	23.05	23.17	24.5	1		
5	16QAM	12	0	22.29	22.29	22.13				
5	16QAM	12	7	22.33	22.31	22.45	23.5	2		
5	16QAM	12	13	22.40	22.44	22.46				
5	16QAM	25	0	22.44	22.38	22.37				
5	64QAM	1	0	22.00	22.18	22.06				
5	64QAM	1	12	22.29	22.24	22.12	23.5	2		
5	64QAM	1	24	22.46	22.15	22.05				
5	64QAM	12	0	21.18	21.26	21.25				
5	64QAM	12	7	21.31	21.45	21.26	22.5	3		
5	64QAM	12	13	21.40	21.46	21.40				
5	64QAM	25	0	21.39	21.31	21.33				

Band 12 Ant0 DS12										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.57	24.69	24.64				
10	QPSK	1	25	24.61	24.64	24.51	25.5	0		
10	QPSK	1	49	24.67	24.65	24.61				
10	QPSK	25	0	23.69	23.89	23.68	24.5	1		
10	QPSK	25	12	23.74	23.71	23.80				
10	QPSK	25	25	23.53	23.86	23.81				
10	QPSK	50	0	23.83	23.86	23.80				
10	16QAM	1	0	23.75	23.73	23.73				
10	16QAM	1	25	23.85	23.79	23.61	24.5	1		
10	16QAM	1	49	23.77	23.73	23.72				
10	16QAM	25	0	22.82	22.72	22.69				
10	16QAM	25	12	22.88	22.69	22.71	23.5	2		
10	16QAM	25	25	22.90	22.85	22.92				
10	16QAM	50	0	22.92	22.86	22.74				
10	64QAM	1	0	22.87	22.60	22.66				
10	64QAM	1	25	22.61	22.57	22.77	23.5	2		
10	64QAM	1	49	22.64	22.70	22.92				
10	64QAM	25	0	21.85	21.68	21.75				
10	64QAM	25	12	21.87	21.75	21.68	22.5	3		
10	64QAM	25	25	21.88	21.62	21.77				
10	64QAM	50	0	21.90	21.80	21.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.67	24.62	24.64				
5	QPSK	1	12	24.60	24.58	24.44	25.5	0		
5	QPSK	1	24	24.61	24.52	24.60				
5	QPSK	12	0	23.80	23.61	23.64	24.5	1		
5	QPSK	12	7	23.71	23.71	23.71				
5	QPSK	12	13	23.64	23.60	23.66				
5	QPSK	25	0	23.77	23.63	23.59				
5	16QAM	1	0	22.62	22.70	22.62				
5	16QAM	1	12	22.48	22.75	23.71	24.5	1		
5	16QAM	1	24	23.61	23.68	23.54				
5	16QAM	12	0	22.84	22.64	22.62				
5	16QAM	12	7	22.89	22.89	22.80	23.5	2		
5	16QAM	12	13	22.61	22.64	22.65				
5	16QAM	25	0	22.73	22.77	22.66				
5	64QAM	1	0	22.73	22.64	22.95				
5	64QAM	1	12	22.76	22.94	22.88	23.5	2		
5	64QAM	1	24	22.70	22.76	22.75				
5	64QAM	12	0	21.79	21.71	21.64				
5	64QAM	12	7	21.81	21.67	21.74	22.5	3		
5	64QAM									



Band 17 Ant0 DSI2									
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				23780	23790	23800			
Frequency (MHz)				706	710	711			
10	QPSK	1	0	24.50	24.68	24.42			
10	QPSK	1	25	24.45	24.57	24.65	25.5	0	
10	QPSK	1	49	24.33	24.40	24.62			
10	QPSK	25	0	23.59	23.92	23.68			
10	QPSK	25	12	23.77	23.69	23.70	24.5	1	
10	QPSK	25	25	23.67	23.63	23.70			
10	QPSK	50	0	23.79	23.90	23.58			
10	16QAM	1	0	23.85	23.77	23.81			
10	16QAM	1	25	23.82	23.86	23.84	24.5	1	
10	16QAM	1	49	23.72	23.84	23.63			
10	16QAM	25	0	22.86	22.89	22.77			
10	16QAM	25	12	22.79	22.88	22.77	23.5	2	
10	16QAM	25	25	22.78	22.69	22.72			
10	16QAM	50	0	22.70	22.65	22.74			
10	64QAM	1	0	22.85	22.76	22.80			
10	64QAM	1	25	22.81	23.14	22.90	23.5	2	
10	64QAM	1	49	22.83	22.75	22.87			
10	64QAM	25	0	21.59	21.64	21.66			
10	64QAM	25	12	21.86	21.72	21.72	22.5	3	
10	64QAM	25	25	21.78	21.79	21.74			
10	64QAM	50	0	21.72	21.68	21.61			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.67	24.67	24.56	25.5	0	
5	QPSK	1	12	24.39	24.59	24.58			
5	QPSK	1	24	24.62	24.56	24.66			
5	QPSK	12	0	23.62	23.77	23.70			
5	QPSK	12	7	23.66	23.64	23.67	24.5	1	
5	QPSK	12	13	23.73	23.70	23.74			
5	QPSK	25	0	23.64	23.70	23.60			
5	16QAM	1	0	23.88	23.75	23.70	24.5	1	
5	16QAM	1	12	23.87	23.75	24.14			
5	16QAM	1	24	23.84	24.16	23.98			
5	16QAM	12	0	22.80	22.77	22.67			
5	16QAM	12	7	22.85	22.57	22.83	23.5	2	
5	16QAM	12	13	22.70	22.57	22.77			
5	16QAM	25	0	22.80	22.83	22.71			
5	64QAM	1	12	22.69	22.76	22.73	23.5	2	
5	64QAM	1	24	22.70	22.55	22.64			
5	64QAM	12	0	21.80	21.75	21.62			
5	64QAM	12	7	21.62	21.72	21.89	22.5	3	
5	64QAM	12	13	21.66	21.54	21.63			
5	64QAM	25	0	21.57	21.61	21.66			

Band 26 Ant0 DSI2									
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	24.34	24.44	24.31			
15	QPSK	1	37	24.39	24.37	24.29	25.5	0	
15	QPSK	1	74	24.37	24.33	24.18			
15	QPSK	36	0	23.44	23.50	23.37			
15	QPSK	36	20	23.42	23.46	23.44	24.5	1	
15	QPSK	36	39	23.48	23.46	23.38			
15	QPSK	75	0	23.42	23.52	23.31			
15	16QAM	1	0	23.77	23.67	23.64			
15	16QAM	1	37	23.70	23.86	23.58	24.5	1	
15	16QAM	1	74	23.75	23.66	23.48			
15	16QAM	36	0	22.45	22.43	22.38			
15	16QAM	36	20	22.50	22.48	22.41	23.5	2	
15	16QAM	36	39	22.46	22.47	22.39			
15	16QAM	75	0	22.52	22.41	22.38			
15	64QAM	1	0	22.80	22.85	22.80			
15	64QAM	1	37	22.65	22.60	22.50	23.5	2	
15	64QAM	1	74	22.58	22.54	22.37			
15	64QAM	36	0	21.48	21.44	21.37			
15	64QAM	36	20	21.51	21.47	21.40	22.5	3	
15	64QAM	36	39	21.50	21.47	21.38			
15	64QAM	75	0	21.52	21.42	21.34			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.35	24.33	24.20	25.5	0	
10	QPSK	1	25	24.33	24.25	24.17			
10	QPSK	1	49	24.27	24.20	24.12			
10	QPSK	25	0	23.45	23.37	23.31			
10	QPSK	25	12	23.45	23.36	23.32	24.5	1	
10	QPSK	25	25	23.42	23.40	23.33			
10	QPSK	50	0	23.46	23.34	23.30			
10	16QAM	1	0	23.68	23.61	23.61	24.5	1	
10	16QAM	1	25	23.62	23.63	23.53			
10	16QAM	1	49	23.63	23.61	23.49			
10	16QAM	25	0	22.50	22.39	22.31			
10	16QAM	25	12	22.47	22.40	22.35	23.5	2	
10	16QAM	25	25	22.42	22.43	22.35			
10	16QAM	50	0	22.47	22.37	22.28			
10	64QAM	1	0	22.57	22.60	22.48	23.5	2	
10	64QAM	1	25	22.56	22.46	22.38			
10	64QAM	1	49	22.50	22.50	22.39			
10	64QAM	25	0	21.49	21.39	21.31			
10	64QAM	25	12	21.47	21.35	21.29	22.5	3	
10	64QAM	25	25	21.40	21.41	21.31			
10	64QAM	50	0	21.44	21.36	21.31			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.33	24.37	24.22	25.5	0	
5	QPSK	1	12	24.40	24.32	24.20			
5	QPSK	1	24	24.32	24.27	24.09			
5	QPSK	12	0	23.46	23.34	23.29	24.5	1	
5	QPSK	12	7	23.49	23.42	23.28			
5	QPSK	12	13	23.43	23.36	23.24			
5	QPSK	25	0	23.46	23.33	23.26			
5	16QAM	1	0	23.60	23.58	23.52	24.5	1	
5	16QAM	1	12	23.64	23.67	23.54			
5	16QAM	1	24	23.66	23.58	23.50			
5	16QAM	12	0	22.60	22.37	22.31	23.5	2	
5	16QAM	12	7	22.51	22.43	22.30			
5	16QAM	12	13	22.47	22.41	22.27			
5	16QAM	25	0	22.49	22.34	22.28			
5	64QAM	1	0	22.58	22.51	22.45	23.5	2	
5	64QAM	1	12	22.56	22.42	22.39			
5	64QAM	1	24	22.54	22.49	22.38			
5	64QAM	12	0	21.53	21.38	21.33	22.5	3	
5	64QAM	12	7	21.48	21.43	21.29			
5	64QAM	12	13	21.45	21.41	21.29			
5	64QAM	25	0	21.39	21.30	21.27			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.29	24.34	24.14	25.5	0	
3	QPSK	1	8	24.33	24.31	24.20			
3	QPSK	1	14	24.37	24.27	23.89			
3	QPSK	8	0	23.40	23.29	23.27			
3	QPSK	8	4	23.42	23.45	23.31	24.5	1	
3	QPSK	8	7	23.45	23.37	23.24			
3	QPSK	15	0	23.44	23.40	23.28			
3	16QAM	1	0	23.53	23.60	23.52	24.5	1	
3	16QAM	1	8	23.61	23.67	23.54			
3	16QAM	1	14	23.70	23.61	23.65			
3	16QAM	8	0	22.50	22.37	22.33			
3	16QAM	8	4	22.55	22.51	22.35	23.5	2	
3	16QAM	8	7	22.49	22.42	22.28			
3	16QAM	15	0	22.50	22.43	22.30			
3	64QAM	1	0	22.56	22.48	22.39	23.5	2	
3	64QAM	1	8	22.62	22.55	22.44			
3	64QAM	1	14	22.55	22.57	22.41			
3	64QAM	8	0	21.51	21.36	21.31			
3	64QAM	8	4	21.50	21.44	21.31	22.5	3	
3	64QAM	8	7	21.50	21.44	21.38			
3	64QAM	15	0	21.48	21.38	21.25			
Channel									



Band 38 Ant0 DSI2									
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	24.01	24.13	24.00	25.5	0	
20	QPSK	1	49	24.02	24.09	24.05			
20	QPSK	1	99	24.03	24.06	24.02			
20	QPSK	50	0	23.01	23.24	23.14	24.5	1	
20	QPSK	50	24	23.19	23.15	23.14			
20	QPSK	50	50	23.18	23.17	23.15			
20	QPSK	100	0	23.05	23.16	23.14	24.5	1	
20	16QAM	1	0	23.10	23.15	23.15			
20	16QAM	1	49	23.20	23.17	23.19			
20	16QAM	1	99	23.22	23.20	23.17	23.5	2	
20	16QAM	50	0	22.11	22.19	22.10			
20	16QAM	50	24	22.20	22.21	22.21			
20	16QAM	50	50	22.21	22.22	22.22	23.5	2	
20	16QAM	100	0	22.19	22.09	22.21			
20	84QAM	1	0	22.16	22.10	22.02			
20	84QAM	1	49	22.12	22.12	22.04	23.5	2	
20	84QAM	1	99	22.05	22.07	22.03			
20	84QAM	50	0	21.02	21.12	21.02			
20	84QAM	50	24	21.12	21.14	21.24	22.5	3	
20	84QAM	50	50	21.03	21.16	21.16			
20	84QAM	100	0	21.12	21.24	21.24			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.07	24.04	24.03	25.5	0	
15	QPSK	1	37	24.00	24.11	23.98			
15	QPSK	1	74	24.06	24.09	24.03			
15	QPSK	36	0	23.08	23.15	23.19	24.5	1	
15	QPSK	36	20	23.20	23.15	23.13			
15	QPSK	36	39	23.07	23.17	23.13			
15	QPSK	75	0	23.12	23.16	23.15	24.5	1	
15	16QAM	1	0	23.21	23.18	23.25			
15	16QAM	1	37	23.13	23.26	23.29			
15	16QAM	1	74	23.19	23.23	23.17	23.5	2	
15	16QAM	36	0	22.09	22.08	22.11			
15	16QAM	36	20	22.10	22.15	22.15			
15	16QAM	36	39	22.18	22.18	22.13	23.5	2	
15	16QAM	75	0	22.18	22.13	22.15			
15	84QAM	1	0	22.19	22.11	22.04			
15	84QAM	1	37	22.09	22.14	21.97	23.5	2	
15	84QAM	1	74	22.06	22.13	22.02			
15	84QAM	36	0	21.03	21.11	21.14			
15	84QAM	36	20	21.13	21.18	21.19	22.5	3	
15	84QAM	36	39	21.23	21.23	21.18			
15	84QAM	75	0	21.17	21.14	21.15			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.05	24.06	23.91	25.5	0	
10	QPSK	1	25	23.89	23.95	23.93			
10	QPSK	1	49	23.99	24.09	23.98			
10	QPSK	25	0	23.12	23.14	23.07	24.5	1	
10	QPSK	25	12	23.13	22.89	23.05			
10	QPSK	25	25	22.96	23.05	23.01			
10	QPSK	50	0	23.10	23.05	23.11	24.5	1	
10	16QAM	1	0	23.05	23.03	23.18			
10	16QAM	1	25	23.05	23.02	23.09			
10	16QAM	1	49	23.03	23.13	23.11	23.5	2	
10	16QAM	25	0	22.08	22.11	22.06			
10	16QAM	25	12	22.12	22.17	22.13			
10	16QAM	25	25	22.14	22.21	22.19	23.5	2	
10	16QAM	50	0	22.17	22.11	22.07			
10	84QAM	1	0	21.93	22.00	22.04			
10	84QAM	1	25	21.74	21.98	21.86	23.5	2	
10	84QAM	1	49	21.92	22.00	21.88			
10	84QAM	25	0	21.06	21.06	20.99			
10	84QAM	25	12	21.09	21.00	21.06	22.5	3	
10	84QAM	25	25	20.98	21.17	21.05			
10	84QAM	50	0	21.01	20.97	21.01			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	23.89	24.07	24.01	25.5	0	
5	QPSK	1	12	23.97	24.10	24.01			
5	QPSK	1	24	24.09	23.87	23.93			
5	QPSK	12	0	23.16	23.12	23.18	24.5	1	
5	QPSK	12	7	23.13	23.11	23.13			
5	QPSK	12	13	23.13	23.14	23.11			
5	QPSK	25	0	23.12	23.10	23.14	24.5	1	
5	16QAM	1	0	23.03	22.98	23.15			
5	16QAM	1	12	23.35	23.16	23.01			
5	16QAM	1	24	23.12	23.17	23.05	23.5	2	
5	16QAM	12	0	22.17	22.04	21.99			
5	16QAM	12	7	22.05	22.03	22.04			
5	16QAM	12	13	22.04	22.24	22.11	23.5	2	
5	16QAM	25	0	22.12	22.20	22.21			
5	84QAM	1	0	22.39	22.21	22.13			
5	84QAM	1	12	22.24	22.29	22.22	23.5	2	
5	84QAM	1	24	22.27	22.10	22.16			
5	84QAM	12	0	21.08	21.14	21.19			
5	84QAM	12	7	21.16	21.14	21.25	22.5	3	
5	84QAM	12	13	21.06	21.23	21.11			
5	84QAM	25	0	21.05	20.96	21.15			

Band 41 (2.6G Band) Ant0 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40240	40500	40770	41090		
Frequency (MHz)				3555	2581	2608	2640		
20	QPSK	1	0	24.10	24.02	24.17	24.04	25.5	0
20	QPSK	1	49	24.06	24.07	24.11	24.12		
20	QPSK	1	99	24.02	23.97	24.12	23.98		
20	QPSK	50	0	23.17	23.17	23.30	23.23	24.5	1
20	QPSK	50	24	23.21	23.20	23.14	23.11		
20	QPSK	50	50	23.26	23.17	23.25	23.14		
20	QPSK	100	0	23.29	23.20	23.32	23.18	24.5	1
20	16QAM	1	0	23.18	23.19	23.34	23.29		
20	16QAM	1	49	23.15	23.14	23.26	23.18		
20	16QAM	1	99	23.18	23.10	23.27	23.21	23.5	2
20	16QAM	50	0	22.14	22.16	22.26	22.21		
20	16QAM	50	24	22.27	22.28	22.19	22.17		
20	16QAM	50	50	22.34	22.25	22.30	22.30	23.5	2
20	16QAM	100	0	22.27	22.20	22.29	22.24		
20	84QAM	1	0	22.07	22.05	22.22	22.16		
20	84QAM	1	49	22.11	21.99	22.02	22.02	23.5	2
20	84QAM	1	99	22.16	21.98	22.13	22.17		
20	84QAM	50	0	21.08	20.99	21.23	21.13		
20	84QAM	50	24	21.22	21.21	21.14	21.11	22.5	3
20	84QAM	50	50	21.28	21.19	21.25	21.12		
20	84QAM	100	0	21.30	21.32	21.34	21.17		
Channel				40215	40495	40785	41115	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5		
15	QPSK	1	0	24.04	23.86	24.04	23.96	25.5	0
15	QPSK	1	37	23.93	23.91	23.98	23.99		
15	QPSK	1	74	24.07	23.87	24.11	23.91		
15	QPSK	36	0	23.01	23.08	23.08	23.05	24.5	1
15	QPSK	36	20	23.14	23.05	23.18	22.97		
15	QPSK	36	39	23.19	23.07	23.19	23.10		
15	QPSK	75	0	23.16	23.16	23.18	23.08	24.5	1
15	16QAM	1	0	23.19	23.10	23.27	23.19		
15	16QAM	1	37	23.08	23.07	23.09	23.03		
15	16QAM	1	74	23.13	23.03	23.17	23.14	23.5	2
15	16QAM	36	0	22.05	21.92	22.10	22.06		
15	16QAM	36	20	22.16	22.08	22.18	22.08		
15	16QAM	36	39	22.11	22.10	22.12	22.10	23.5	2
15	16QAM	75	0	22.23	22.15	22.15	22.03		
15	84QAM	1	0	22.15	22.00	22.17	21.98		
15	84QAM	1	37	22.07	21.94	21.99	21.91	23.5	2
15	84QAM	1	74	22.02	21.99	22.03	21.92		
15	84QAM	36	0	21.08	21.06	21.12	21.09		
15	84QAM	36	20	21.20	21.13	21.22	21.03	22.5	3
15	84QAM	36	39	21.15	21.13	21.16	21.15		
15	84QAM	75	0	21.13	21.16	21.16	21.04		
Channel				40190	40490	40790	41140	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550	2580	2610	2645		
10	QPSK	1	0	24.02	23.90	24.04	23.90	25.5	0
10	QPSK	1	25	24.00	23.85	23.99	23.84		
10	QPSK	1	49	24.07					



GSM850 Ant4 DS12

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	23.14	23.27	23.11	24.50
GSM 1 Tx slot	32.14	32.27	32.11	33.50	23.14	23.27	23.11	24.50
GPRS 1 Tx slot	32.19	32.24	31.97	33.50	23.19	23.24	22.97	24.50
GPRS 2 Tx slots	29.66	29.69	29.46	30.50	23.66	23.59	23.46	24.50
GPRS 3 Tx slots	27.64	27.44	27.85	28.50	23.38	23.18	23.59	24.24
GPRS 4 Tx slots	26.48	26.54	26.45	27.50	23.48	23.54	23.45	24.50
EDGE 1 Tx slot	26.11	26.00	25.97	27.50	17.11	17.00	16.97	18.50
EDGE 2 Tx slots	23.36	23.54	23.16	24.50	17.36	17.54	17.16	18.50
EDGE 3 Tx slots	21.47	21.55	21.29	23.00	17.21	17.29	17.03	18.74
EDGE 4 Tx slots	20.09	20.40	20.13	21.50	17.09	17.40	17.13	18.50

GSM1900 Ant4 DS12

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	1850.2	1880	1909.8	21.50
GSM 1 Tx slot	28.99	28.98	28.84	30.50	19.99	19.98	19.84	21.50
GPRS 1 Tx slot	29.04	28.89	28.79	30.50	20.04	19.89	19.79	21.50
GPRS 2 Tx slots	26.39	26.52	26.51	27.50	20.39	20.52	20.51	21.50
GPRS 3 Tx slots	24.31	24.38	24.04	25.50	20.05	20.12	19.78	21.24
GPRS 4 Tx slots	22.87	23.10	22.81	24.50	19.87	20.10	19.81	21.50
EDGE 1 Tx slot	24.76	24.91	24.63	26.50	15.76	15.91	15.63	17.50
EDGE 2 Tx slots	22.18	22.25	22.24	24.00	16.18	16.25	16.24	18.00
EDGE 3 Tx slots	19.51	19.57	19.54	21.50	15.25	15.31	15.28	17.24
EDGE 4 Tx slots	19.29	19.04	19.40	20.50	16.29	16.04	16.40	17.50

WCDMA II Ant4 DS12

WCDMA IV Ant4 DS12

WCDMA V Ant4 DS12

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938	30.50	1637	1638	1738	4357	4407	4458	24.50	
Frequency (MHz)	1852.4	1880	1907.6	24.50	1712.4	1732.6	1752.6	826.4	836.4	846.6	24.50	
3GPP Rel 99 AMR 12.2kbps	23.28	23.34	23.19	24.50	23.75	23.78	23.80	24.50	24.70	24.72	24.71	25.50
3GPP Rel 99 RMC 12.2kbps	23.31	23.36	23.20	24.50	23.73	23.83	23.81	24.50	24.71	24.73	24.68	25.50
3GPP Rel 6 HSDPA Subtest-1	22.33	22.38	22.21	23.50	22.83	22.89	22.90	23.50	23.82	23.80	23.72	24.50
3GPP Rel 6 HSDPA Subtest-2	22.35	22.36	22.23	23.50	22.87	22.89	22.92	23.50	23.78	23.79	23.71	24.50
3GPP Rel 6 HSDPA Subtest-3	21.83	21.85	21.71	23.00	22.35	22.40	22.06	23.00	23.28	23.32	23.16	24.00
3GPP Rel 6 HSDPA Subtest-4	21.86	21.86	21.67	23.00	22.32	22.39	22.44	23.00	23.26	22.85	23.21	24.00
3GPP Rel 8 DC-HSDPA Subtest-1	22.36	22.48	22.11	23.50	22.85	22.83	22.84	23.50	23.81	23.88	23.70	24.50
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.46	22.26	23.50	22.77	22.82	22.81	23.50	23.80	23.76	23.60	24.50
3GPP Rel 8 DC-HSDPA Subtest-3	21.78	21.90	21.65	23.00	22.37	22.36	22.01	23.00	23.27	23.22	23.27	24.00
3GPP Rel 8 DC-HSDPA Subtest-4	21.96	21.96	21.60	23.00	22.31	22.49	22.50	23.00	23.29	23.00	23.23	24.00
3GPP Rel 6 HSUPA Subtest-1	22.31	22.36	22.20	23.50	22.86	22.86	22.90	23.50	23.74	23.72	23.62	24.50
3GPP Rel 6 HSUPA Subtest-2	20.25	20.28	20.19	21.50	20.83	20.78	20.79	21.50	21.74	21.70	21.64	22.50
3GPP Rel 6 HSUPA Subtest-3	21.29	21.33	21.22	22.50	21.84	21.90	21.88	22.50	22.71	22.73	22.65	23.50
3GPP Rel 6 HSUPA Subtest-4	20.30	20.35	20.28	21.50	20.84	20.89	20.87	21.50	21.72	21.77	21.67	22.50
3GPP Rel 6 HSUPA Subtest-5	22.30	22.25	22.20	23.50	22.80	22.85	22.90	23.50	23.70	23.68	23.60	24.50



Band 2 Ant4 DS2E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.21	22.53	22.27				
20	QPSK	1	49	22.31	22.41	22.36	23.5	0		
20	QPSK	1	99	22.26	22.21	22.17				
20	QPSK	50	0	21.37	21.38	21.26				
20	QPSK	50	24	21.25	21.21	21.21	22.5	1		
20	QPSK	50	50	21.29	21.29	21.26				
20	QPSK	100	0	21.30	21.39	21.22				
20	16QAM	1	0	21.45	21.65	21.38				
20	16QAM	1	49	21.61	21.45	21.52	22.5	1		
20	16QAM	1	99	21.31	21.56	21.44				
20	16QAM	50	0	20.75	20.47	20.67				
20	16QAM	50	24	20.69	20.61	20.65	21.5	2		
20	16QAM	50	50	20.66	20.62	20.54				
20	16QAM	100	0	20.62	20.59	20.57				
20	64QAM	1	0	20.44	20.57	20.22				
20	64QAM	1	49	20.22	20.32	20.60	21.5	2		
20	64QAM	1	99	20.29	20.25	20.45				
20	64QAM	50	0	19.20	19.24	19.30				
20	64QAM	50	24	19.46	19.18	19.25	20.5	3		
20	64QAM	50	50	19.38	19.23	19.24				
20	64QAM	100	0	19.38	19.20	19.33				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.23	22.31	22.17				
15	QPSK	1	37	22.33	22.22	22.19	23.5	0		
15	QPSK	1	74	22.05	22.13	22.04				
15	QPSK	36	0	21.43	21.25	21.43				
15	QPSK	36	20	21.36	21.19	21.29	22.5	1		
15	QPSK	36	39	21.26	21.20	21.26				
15	QPSK	75	0	21.30	21.23	21.30				
15	16QAM	1	0	21.49	21.47	21.38				
15	16QAM	1	37	21.25	21.56	21.30	22.5	1		
15	16QAM	1	74	21.30	21.41	21.34				
15	16QAM	36	0	20.34	20.35	20.31				
15	16QAM	36	20	20.46	20.38	20.35	21.5	2		
15	16QAM	36	39	20.29	20.25	20.20				
15	16QAM	75	0	20.60	20.75	20.41				
15	64QAM	1	0	20.40	20.32	20.45				
15	64QAM	1	37	20.33	20.10	20.10	21.5	2		
15	64QAM	1	74	20.27	20.35	20.29				
15	64QAM	36	0	19.39	19.29	19.35				
15	64QAM	36	20	19.37	19.16	19.26	20.5	3		
15	64QAM	36	39	19.28	19.25	19.27				
15	64QAM	75	0	19.45	19.21	19.25				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.36	22.42	22.41				
10	QPSK	1	25	22.35	22.34	22.46	23.5	0		
10	QPSK	1	49	22.51	22.16	22.45				
10	QPSK	25	0	21.49	21.41	21.38				
10	QPSK	25	12	21.33	21.45	21.41	22.5	1		
10	QPSK	25	25	21.43	21.26	21.38				
10	QPSK	50	0	21.40	21.43	21.43				
10	16QAM	1	0	21.41	21.38	21.28				
10	16QAM	1	25	21.17	21.36	21.33	22.5	1		
10	16QAM	1	49	21.15	21.13	21.30				
10	16QAM	25	0	20.37	20.31	20.35				
10	16QAM	25	12	20.47	20.34	20.39	21.5	2		
10	16QAM	25	25	20.48	20.46	20.32				
10	16QAM	50	0	20.53	20.38	20.37				
10	64QAM	1	0	20.48	20.45	20.55				
10	64QAM	1	25	20.40	20.57	20.65	21.5	2		
10	64QAM	1	49	20.30	20.50	20.35				
10	64QAM	25	0	19.46	19.46	19.33				
10	64QAM	25	12	19.54	19.38	19.44	20.5	3		
10	64QAM	25	25	19.40	19.37	19.39				
10	64QAM	50	0	19.47	19.40	19.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.32	22.31	22.12				
5	QPSK	1	12	22.42	22.19	22.22	23.5	0		
5	QPSK	1	24	22.42	22.19	22.22				
5	QPSK	12	0	21.49	21.53	21.40				
5	QPSK	12	7	21.41	21.51	21.41	22.5	1		
5	QPSK	12	13	21.35	21.37	21.29				
5	QPSK	25	0	21.56	21.35	21.29				
5	16QAM	1	0	21.51	21.49	21.44				
5	16QAM	1	12	21.49	21.39	21.59	22.5	1		
5	16QAM	1	24	21.24	21.51	21.50				
5	16QAM	12	0	20.49	20.54	20.43				
5	16QAM	12	7	20.62	20.47	20.57	21.5	2		
5	16QAM	12	13	20.43	20.43	20.28				
5	16QAM	25	0	20.60	20.48	20.30				
5	64QAM	1	0	19.97	20.18	20.12				
5	64QAM	1	12	19.92	20.14	19.93	21.5	2		
5	64QAM	1	24	20.00	19.83	20.00				
5	64QAM	12	0	19.54	19.89	19.40				
5	64QAM	12	7	19.43	19.49	19.41	20.5	3		
5	64QAM	12	13	19.48	19.38	19.34				
5	64QAM	25	0	19.36	19.37	19.27				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.42	22.48	22.48				
3	QPSK	1	8	22.32	22.28	22.48	23.5	0		
3	QPSK	1	14	22.25	22.24	22.14				
3	QPSK	8	0	21.59	21.48	21.50				
3	QPSK	8	4	21.67	21.47	21.38	22.5	1		
3	QPSK	8	7	21.41	21.38	21.25				
3	QPSK	15	0	21.44	21.50	21.37				
3	16QAM	1	0	21.45	21.50	21.36				
3	16QAM	1	8	21.49	21.44	21.68	22.5	1		
3	16QAM	1	14	21.69	21.69	21.51				
3	16QAM	8	0	20.71	20.45	20.47				
3	16QAM	8	4	20.53	20.67	20.35	21.5	2		
3	16QAM	8	7	20.52	20.49	20.35				
3	64QAM	1	0	20.46	20.68	20.34				
3	64QAM	1	8	20.81	20.65	20.34	21.5	2		
3	64QAM	1	8	20.29	20.64	20.50				
3	64QAM	1	14	20.49	20.37	20.42				
3	64QAM	8	0	19.39	19.52	19.44				
3	64QAM	8	4	19.43	19.48	19.12	20.5	3		
3	64QAM	8	7	19.49	19.36	19.41				
3	64QAM	15	0	19.40	19.35	19.44				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.04	22.35	22.15				
1.4	QPSK	1	3	22.38	22.32	22.24	23.5	0		
1.4	QPSK	1	5	22.19	22.04	22.25				
1.4	QPSK	3	0	22.24	22.33	22.26				
1.4	QPSK	3	1	22.28	22.22	22.30				
1.4	QPSK	3	3	22.28	22.19	22.06	22.5	1		
1.4	QPSK	6	0	21.38	21.42	21.31				
1.4	16QAM	1	0	21.50	21.30	21.32				
1.4	16QAM	1	3	21.50	21.25	21.23	22.5	1		
1.4	16QAM	1	5	21.20	21.39	21.20				
1.4	16QAM	3	0	21.46	21.49	21.23	22.5	1		
1.4	16QAM	3	1	21.55	21.34	21.19				
1.4	16QAM	3	3	21.33	21.40	21.43				
1.4	64QAM	6	0	20.42	20.31	20.20	21.5	2		
1.4	64QAM	1	0	20.40	20.47	20.27				
1.4	64QAM	1	3	20.28	20.27	20.33				
1.4	64QAM	1	5	20.28	20.39	20.15	21.5	2		
1.4	64QAM	3	0	20.58	20.39	20.47				
1.4	64QAM	3	1	20.49	20.58	20.30				
1.4	64QAM	3	3	20.42	20.21	20.20	20.5	3		
1.4	64QAM	6	0	19.09	19.26	19.30				

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Band 7 Ant4 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2590	2535	2560				
20	QPSK	1	0	22.56	22.67	22.35				
20	QPSK	1	49	22.35	22.46	22.34	23.5	0		
20	QPSK	1	99	22.38	22.48	22.42				
20	QPSK	50	0	21.38	21.65	21.42				
20	QPSK	50	24	21.46	21.46	21.56	22.5	1		
20	QPSK	50	50	21.47	21.55	21.49				
20	QPSK	100	0	21.45	21.52	21.40				
20	16QAM	1	0	21.71	21.79	21.83				
20	16QAM	1	49	21.91	21.97	21.61	22.5	1		
20	16QAM	1	99	21.98	21.75	21.63				
20	16QAM	50	0	20.40	20.49	20.43				
20	16QAM	50	24	20.46	20.45	20.44	21.5	2		
20	16QAM	50	50	20.57	20.53	20.63				
20	16QAM	100	0	20.50	20.54	20.50				
20	64QAM	1	0	20.61	20.56	20.48				
20	64QAM	1	49	20.47	20.51	20.77	21.5	2		
20	64QAM	1	99	22.78	20.77	20.78				
20	64QAM	50	0	19.35	19.43	19.44				
20	64QAM	50	24	19.54	19.44	19.60	20.5	3		
20	64QAM	50	50	19.49	19.50	19.68				
20	64QAM	100	0	19.59	19.48	19.50				
Channel										
Frequency (MHz)				20825	21100	21375				
15	QPSK	1	0	22.34	22.62	22.28	23.5	0		
15	QPSK	1	37	22.37	22.32	22.56				
15	QPSK	1	74	22.44	22.45	22.43				
15	QPSK	36	0	21.47	21.58	21.50				
15	QPSK	36	20	21.48	21.46	21.51	22.5	1		
15	QPSK	36	39	21.49	21.51	21.58				
15	QPSK	75	0	21.56	21.49	21.54				
15	16QAM	1	0	21.49	21.79	21.72	22.5	1		
15	16QAM	1	37	21.52	21.48	21.49				
15	16QAM	1	74	21.59	21.50	21.70				
15	16QAM	36	0	20.50	20.40	20.56				
15	16QAM	36	20	20.46	20.43	20.59	21.5	2		
15	16QAM	36	39	20.57	20.55	20.62				
15	16QAM	75	0	20.51	20.48	20.51				
15	64QAM	1	0	20.45	20.59	20.73	21.5	2		
15	64QAM	1	37	20.58	20.64	20.81				
15	64QAM	1	74	20.47	20.75	20.62				
15	64QAM	36	0	19.47	19.50	19.53				
15	64QAM	36	20	19.45	19.52	19.49	20.5	3		
15	64QAM	36	39	19.55	19.56	19.49				
15	64QAM	75	0	19.44	19.39	19.50				
Channel										
Frequency (MHz)				20900	21100	21400				
10	QPSK	1	0	22.32	22.65	22.40	23.5	0		
10	QPSK	1	25	22.46	22.51	22.66				
10	QPSK	1	49	22.43	22.58	22.52				
10	QPSK	25	0	21.64	21.56	21.63	22.5	1		
10	QPSK	1	1	21.53	21.67	21.69				
10	QPSK	25	25	21.57	21.75	21.82				
10	QPSK	50	0	21.56	21.55	21.64				
10	16QAM	1	0	21.59	21.55	21.44	22.5	1		
10	16QAM	1	25	21.76	21.65	21.53				
10	16QAM	1	49	21.72	21.70	21.68				
10	16QAM	25	0	20.56	20.56	20.42	21.5	2		
10	16QAM	25	12	20.59	20.46	20.28				
10	16QAM	25	25	20.52	20.40	20.60				
10	16QAM	50	0	20.59	20.56	20.70				
10	64QAM	1	0	20.47	20.55	20.31	21.5	2		
10	64QAM	1	25	20.57	20.34	20.54				
10	64QAM	1	49	20.45	20.36	20.56				
10	64QAM	25	0	19.55	19.45	19.65	20.5	3		
10	64QAM	25	12	19.66	19.72	19.76				
10	64QAM	25	25	19.65	19.71	19.78				
10	64QAM	50	0	19.57	19.43	19.70				
Channel										
Frequency (MHz)				20775	21100	21425				
5	QPSK	1	0	22.45	22.62	22.54	23.5	0		
5	QPSK	1	12	22.33	22.36	22.47				
5	QPSK	1	24	22.55	22.62	22.58				
5	QPSK	12	0	21.51	21.58	21.64	22.5	1		
5	QPSK	12	7	21.69	21.67	21.77				
5	QPSK	12	13	21.84	21.85	21.77				
5	QPSK	25	0	21.56	21.66	21.79				
5	16QAM	1	0	21.62	21.66	21.50	22.5	1		
5	16QAM	1	12	21.42	21.74	21.69				
5	16QAM	1	24	21.74	21.60	21.51				
5	16QAM	12	0	20.57	20.43	20.77	21.5	2		
5	16QAM	12	7	20.72	20.71	20.75				
5	16QAM	12	13	20.74	20.79	20.68				
5	16QAM	25	0	20.57	20.58	20.74				
5	64QAM	1	0	20.56	20.47	20.74	21.5	2		
5	64QAM	1	12	20.69	20.61	20.53				
5	64QAM	1	24	20.78	20.74	20.61				
5	64QAM	12	0	19.53	19.57	19.56				
5	64QAM	12	7	19.56	19.52	19.68	20.5	3		
5	64QAM	12	13	19.46	19.72	19.59				
5	64QAM	25	0	19.49	19.55	19.82				

Band 12 Ant4 DS12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	24.58	24.76	24.57	25.5	0		
10	QPSK	1	25	24.54	24.54	24.37				
10	QPSK	1	49	24.58	24.60	24.61				
10	QPSK	25	0	23.57	23.78	23.63	24.5	1		
10	QPSK	25	12	23.76	23.61	23.47				
10	QPSK	25	25	23.65	23.61	23.55				
10	QPSK	50	0	23.70	23.73	23.68				
10	16QAM	1	0	24.13	23.82	23.76	24.5	1		
10	16QAM	1	25	23.76	24.06	23.74				
10	16QAM	1	49	23.75	23.83	24.08				
10	16QAM	25	0	22.85	22.56	22.56	23.5	2		
10	16QAM	25	12	22.81	22.75	22.59				
10	16QAM	25	25	22.69	22.58	22.60				
10	16QAM	50	0	22.70	22.65	22.66				
10	64QAM	1	0	22.71	22.72	22.66				
10	64QAM	1	25	22.59	22.75	22.63	23.5	2		
10	64QAM	1	49	22.61	22.88	22.61				
10	64QAM	25	0	21.69	21.62	21.56	22.5	3		
10	64QAM	25	12	21.79	21.62	21.72				
10	64QAM	25	25	21.64	21.59	21.73				
10	64QAM	50	0	21.71	21.56	21.49				
Channel										
Frequency (MHz)				701.5	707.5	713.5				
5	QPSK	1	0	24.50	24.75	24.70	25.5	0		
5	QPSK	1	12	24.71	24.68	24.61				
5	QPSK	1	24	24.72	24.74	24.66				
5	QPSK	12	0	23.79	23.81	23.78	24.5	1		
5	QPSK	12	7	23.77	23.83	23.79				
5	QPSK	12	13	23.89	23.80	23.72				
5	QPSK	25	0	23.88	23.75	23.77				
5	16QAM	1	0	23.63	23.76	23.65	24.5	1		
5	16QAM	1	12	23.86	23.77	23.83				
5	16QAM	1	24	23.73	23.87	23.86				
5	16QAM	12	0	22.86	22.82	22.72	23.5	2		
5	16QAM	12	7	22.77	22.86	22.98				
5	16QAM	12	13	22.67	22.79	22.75				
5	16QAM	25	0	22.86	22.72	22.67				
5	64QAM	1	0	23.07	22.86	23.02	23.5	2		
5	64QAM	1	12	22.75	22.90	22.98				
5										



Band 17 Ant4 DSI2										
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				23780	23790	23800				
Frequency (MHz)				706	710	711				
10	QPSK	1	0	24.42	24.74	24.45				
10	QPSK	1	25	24.50	24.45	24.43	25.5	0		
10	QPSK	1	49	24.44	24.51	24.60				
10	QPSK	25	0	23.51	23.67	23.50				
10	QPSK	25	12	23.58	23.53	23.56	24.5	1		
10	QPSK	25	25	23.62	23.61	23.50				
10	QPSK	50	0	23.62	23.66	23.43				
10	16QAM	1	0	23.63	23.51	23.76				
10	16QAM	1	25	23.68	23.64	23.51	24.5	1		
10	16QAM	1	49	23.40	23.70	23.62				
10	16QAM	25	0	22.59	22.58	22.53				
10	16QAM	25	12	22.59	22.43	22.56	23.5	2		
10	16QAM	25	25	22.64	22.73	22.61				
10	16QAM	50	0	22.57	22.64	22.48				
10	64QAM	1	0	22.45	22.50	22.54				
10	64QAM	1	25	22.71	22.57	22.59	23.5	2		
10	64QAM	1	49	22.52	22.54	22.75				
10	64QAM	25	0	21.43	21.70	21.49				
10	64QAM	25	12	21.65	21.60	21.54	22.5	3		
10	64QAM	25	25	21.66	21.55	21.70				
10	64QAM	50	0	21.58	21.52	21.53				
Channel				23755	23790	23825				
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	24.69	24.67	24.46	25.5	0		
5	QPSK	1	12	24.39	24.48	24.37				
5	QPSK	1	24	24.82	24.53	24.41				
5	QPSK	12	0	23.56	23.63	23.52				
5	QPSK	12	7	23.64	23.63	23.33	24.5	1		
5	QPSK	12	13	23.56	23.56	23.68				
5	QPSK	25	0	23.62	23.53	23.50				
5	16QAM	1	0	23.71	23.73	23.66	24.5	1		
5	16QAM	1	12	23.54	23.38	23.69				
5	16QAM	1	24	23.44	23.51	23.42				
5	16QAM	12	0	22.64	22.73	22.66				
5	16QAM	12	7	22.63	22.71	22.65	23.5	2		
5	16QAM	12	13	22.58	22.69	22.50				
5	16QAM	25	0	22.76	22.66	22.60				
5	64QAM	1	0	22.97	22.95	22.73	23.5	2		
5	64QAM	1	12	22.68	22.61	22.45				
5	64QAM	1	24	22.63	22.74	22.82				
5	64QAM	12	0	21.68	21.77	21.50				
5	64QAM	12	7	21.55	21.81	21.45	22.5	3		
5	64QAM	12	13	21.67	21.63	21.78				
5	64QAM	25	0	21.59	21.43	21.58				

Band 26 Ant4 DSI2										
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	24.42	24.48	24.38				
15	QPSK	1	37	24.36	24.30	24.34	25.5	0		
15	QPSK	1	74	24.38	24.28	24.23				
15	QPSK	36	0	23.52	23.54	23.26				
15	QPSK	36	20	23.30	23.46	23.28	24.5	1		
15	QPSK	36	39	23.31	23.28	23.36				
15	QPSK	75	0	23.39	23.49	23.43				
15	16QAM	1	0	23.35	23.48	23.38				
15	16QAM	1	37	23.24	23.38	23.34	24.5	1		
15	16QAM	1	74	23.29	23.46	23.19				
15	16QAM	36	0	22.44	22.38	22.28				
15	16QAM	36	20	22.40	22.33	22.17	23.5	2		
15	16QAM	36	39	22.35	22.38	22.17				
15	16QAM	75	0	22.42	22.37	22.28				
15	64QAM	1	0	22.32	22.54	22.38				
15	64QAM	1	37	22.21	22.35	22.20	23.5	2		
15	64QAM	1	74	22.33	22.41	22.31				
15	64QAM	36	0	21.43	21.55	21.49				
15	64QAM	36	20	21.33	21.32	21.35	22.5	3		
15	64QAM	36	39	21.36	21.29	21.28				
15	64QAM	75	0	21.32	21.47	21.47				
Channel				26740	26865	26960				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.37	24.35	24.35	25.5	0		
10	QPSK	1	25	24.21	24.21	24.25				
10	QPSK	1	49	24.25	24.26	24.07				
10	QPSK	25	0	23.39	23.45	23.11				
10	QPSK	25	12	23.23	23.44	23.23	24.5	1		
10	QPSK	25	25	23.12	23.10	23.35				
10	QPSK	50	0	23.36	23.43	23.32				
10	16QAM	1	0	23.35	23.32	23.20				
10	16QAM	1	25	23.18	23.18	23.18	24.5	1		
10	16QAM	1	49	23.09	23.42	23.07				
10	16QAM	25	0	22.40	22.18	22.21				
10	16QAM	25	12	22.21	22.28	22.07	23.5	2		
10	16QAM	25	25	22.27	22.19	22.09				
10	16QAM	50	0	22.33	22.36	22.16				
10	64QAM	1	0	22.38	22.39	22.28				
10	64QAM	1	25	22.04	22.27	22.15	23.5	2		
10	64QAM	1	49	22.13	22.33	22.14				
10	64QAM	25	0	21.41	21.38	21.39				
10	64QAM	25	12	21.29	21.16	21.20	22.5	3		
10	64QAM	25	25	21.26	21.28	21.18				
10	64QAM	50	0	21.15	21.43	21.34				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.32	24.39	24.22	25.5	0		
5	QPSK	1	12	24.29	24.24	24.41				
5	QPSK	1	24	24.25	24.20	24.20				
5	QPSK	12	0	23.35	23.54	23.22				
5	QPSK	12	7	23.29	23.45	23.32	24.5	1		
5	QPSK	12	13	23.16	23.19	23.29				
5	QPSK	25	0	23.30	23.37	23.54				
5	16QAM	1	0	23.34	23.32	23.39	24.5	1		
5	16QAM	1	12	23.22	23.34	23.37				
5	16QAM	1	24	23.12	23.33	23.12				
5	16QAM	12	0	22.30	22.41	22.28	23.5	2		
5	16QAM	12	7	22.40	22.33	22.12				
5	16QAM	12	13	22.20	22.25	22.08				
5	16QAM	25	0	22.49	22.30	22.23				
5	64QAM	1	0	22.31	22.51	22.44	23.5	2		
5	64QAM	1	12	22.27	22.31	22.23				
5	64QAM	1	24	22.20	22.38	22.25				
5	64QAM	12	0	21.34	21.43	21.49	22.5	3		
5	64QAM	12	7	21.32	21.32	21.40				
5	64QAM	12	13	21.32	21.33	21.11				
5	64QAM	25	0	21.22	21.40	21.48				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.43	24.33	24.42	25.5	0		
3	QPSK	1	8	24.21	24.14	24.37				
3	QPSK	1	14	24.39	24.33	24.10				
3	QPSK	8	0	23.43	23.41	23.31				
3	QPSK	8	4	23.21	23.49	23.12	24.5	1		
3	QPSK	8	7	23.21	23.34	23.25				
3	QPSK	15	0	23.30	23.30	23.33				
3	16QAM	1	0	23.23	23.41	23.32				
3	16QAM	1	8	23.13	23.34	23.39	24.5	1		
3	16QAM	1	14	23.24	23.41	23.22				
3	16QAM	8	0	22.38	22.30	22.20				
3	16QAM	8	4	22.28	22.18	22.07	23.5	2		
3	16QAM	8	7	22.28	22.24	22.17				
3	16QAM	15	0	22.46	22.36	22.31				
3	64QAM	1	0	22.22	22.37	22.40	23.5	2		
3	64QAM	1	8	22.26	22.23	22.13				



Band 38 Ant4 DSI2									
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	22.63	22.85	22.64	23.5	0	
20	QPSK	1	49	22.71	22.57	22.79			
20	QPSK	1	99	22.67	22.55	22.54			
20	QPSK	50	0	21.54	21.74	21.65	22.5	1	
20	QPSK	50	24	21.66	21.66	21.70			
20	QPSK	50	50	21.57	21.60	21.70			
20	QPSK	100	0	21.63	21.76	21.68	22.5	1	
20	16QAM	1	0	21.63	21.75	21.69			
20	16QAM	1	49	21.70	21.73	21.76			
20	16QAM	1	99	21.67	21.69	21.60	21.5	2	
20	16QAM	50	0	20.54	20.72	20.62			
20	16QAM	50	24	20.64	20.72	20.81			
20	16QAM	50	50	20.59	20.80	20.78	21.5	2	
20	16QAM	100	0	20.64	20.62	20.74			
20	64QAM	1	0	20.84	20.88	20.81			
20	64QAM	1	49	20.96	20.92	20.88	21.5	2	
20	64QAM	1	99	20.86	20.73	20.71			
20	64QAM	50	0	19.70	19.71	19.71			
20	64QAM	50	24	19.83	19.80	19.82	20.5	3	
20	64QAM	50	50	19.66	19.89	19.87			
20	64QAM	100	0	19.82	19.89	19.94			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	22.48	22.63	22.49	23.5	0	
15	QPSK	1	37	22.70	22.69	22.68			
15	QPSK	1	74	22.67	22.63	22.48			
15	QPSK	36	0	21.60	21.66	21.63	22.5	1	
15	QPSK	36	20	21.68	21.66	21.63			
15	QPSK	36	39	21.62	21.69	21.66			
15	QPSK	75	0	21.61	21.69	21.64	22.5	1	
15	16QAM	1	0	21.63	21.67	21.63			
15	16QAM	1	37	21.69	21.81	21.75			
15	16QAM	1	74	21.64	21.79	21.73	21.5	2	
15	16QAM	36	0	20.54	20.60	20.66			
15	16QAM	36	20	20.62	20.78	20.65			
15	16QAM	36	39	20.65	20.73	20.69	21.5	2	
15	16QAM	75	0	20.67	20.67	20.63			
15	64QAM	1	0	20.79	20.99	20.75			
15	64QAM	1	37	20.82	20.87	20.67	21.5	2	
15	64QAM	1	74	20.77	20.81	20.64			
15	64QAM	36	0	19.72	19.78	19.74			
15	64QAM	36	20	19.90	19.77	19.84	20.5	3	
15	64QAM	36	39	19.83	19.91	19.78			
15	64QAM	75	0	19.84	19.89	19.76			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.84	22.52	22.75	23.5	0	
10	QPSK	1	25	22.53	22.66	22.69			
10	QPSK	1	49	22.58	22.68	22.70			
10	QPSK	25	0	21.81	21.77	21.72	22.5	1	
10	QPSK	25	12	21.81	21.78	21.75			
10	QPSK	25	25	21.81	21.77	21.70			
10	QPSK	50	0	21.79	21.74	21.81	22.5	1	
10	16QAM	1	0	21.75	21.78	21.73			
10	16QAM	1	25	21.62	21.92	21.67			
10	16QAM	1	49	21.73	21.76	21.76	21.5	2	
10	16QAM	25	0	20.72	20.86	20.80			
10	16QAM	25	12	20.82	20.86	20.84			
10	16QAM	25	25	20.81	20.86	20.79	21.5	2	
10	16QAM	50	0	20.76	20.74	20.69			
10	64QAM	1	0	20.64	20.75	20.69			
10	64QAM	1	25	20.69	20.90	20.56	21.5	2	
10	64QAM	1	49	20.81	20.83	20.53			
10	64QAM	25	0	19.76	19.64	19.74			
10	64QAM	25	12	19.68	19.81	19.78	20.5	3	
10	64QAM	25	25	19.77	19.73	19.74			
10	64QAM	50	0	19.72	19.77	19.75			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.71	22.69	22.82	23.5	0	
5	QPSK	1	12	22.76	22.54	22.56			
5	QPSK	1	24	22.59	22.81	22.53			
5	QPSK	12	0	21.80	21.77	21.80	22.5	1	
5	QPSK	12	7	21.77	21.73	21.75			
5	QPSK	12	13	21.68	21.82	21.73			
5	QPSK	25	0	21.76	21.83	21.75	22.5	1	
5	16QAM	1	0	21.67	21.75	21.77			
5	16QAM	1	12	21.51	21.76	21.89			
5	16QAM	1	24	21.63	21.79	22.01	21.5	2	
5	16QAM	12	0	20.64	20.61	20.84			
5	16QAM	12	7	20.73	20.76	20.79			
5	16QAM	12	13	20.72	20.76	20.85	21.5	2	
5	16QAM	25	0	20.70	20.74	20.84			
5	64QAM	1	0	20.77	20.54	20.58			
5	64QAM	1	12	20.77	20.64	20.67	21.5	2	
5	64QAM	1	24	20.79	20.85	20.66			
5	64QAM	12	0	19.75	19.72	19.72			
5	64QAM	12	7	19.83	19.79	19.79	20.5	3	
5	64QAM	12	13	19.71	19.76	19.85			
5	64QAM	25	0	19.72	19.61	19.88			

Band 41 (2.6G Band) ANT4 DSI2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40240	40500	40770	41090		
Frequency (MHz)				2555	2581	2608	2640		
20	QPSK	1	0	22.53	22.57	22.89	22.88	23.5	0
20	QPSK	1	49	22.69	22.76	22.70	22.71		
20	QPSK	1	99	22.56	22.52	22.73	22.64		
20	QPSK	50	0	21.69	21.72	21.88	21.69	22.5	1
20	QPSK	50	24	21.67	21.80	21.79	21.69		
20	QPSK	50	50	21.68	21.74	21.80	21.74		
20	QPSK	100	0	21.71	21.79	21.85	21.79	22.5	1
20	16QAM	1	0	21.71	21.84	21.94	21.86		
20	16QAM	1	49	21.77	21.84	21.88	21.86		
20	16QAM	1	99	21.61	21.76	21.82	21.77	21.5	2
20	16QAM	50	0	20.57	20.68	20.86	20.84		
20	16QAM	50	24	20.72	20.87	20.88	20.76		
20	16QAM	50	50	20.76	20.80	20.87	20.84	21.5	2
20	16QAM	100	0	20.71	20.78	20.88	20.81		
20	64QAM	1	0	20.58	20.61	20.79	20.71		
20	64QAM	1	49	20.65	20.70	20.85	20.60	21.5	2
20	64QAM	1	99	20.59	20.77	20.79	20.64		
20	64QAM	50	0	19.61	19.73	19.72	19.68		
20	64QAM	50	24	19.67	19.83	19.84	19.79	20.5	3
20	64QAM	50	50	19.70	19.75	19.83	19.67		
20	64QAM	100	0	19.82	19.82	19.92	19.73		
Channel				40215	40495	40785	41115	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5		
15	QPSK	1	0	22.54	22.56	22.78	22.77	23.5	0
15	QPSK	1	37	22.57	22.49	22.75	22.50		
15	QPSK	1	74	22.54	22.68	22.77	22.63		
15	QPSK	36	0	21.65	21.75	21.81	21.74	22.5	1
15	QPSK	36	20	21.73	21.69	21.90	21.69		
15	QPSK	36	39	21.68	21.76	21.84	21.75		
15	QPSK	75	0	21.72	21.81	21.91	21.69	22.5	1
15	16QAM	1	0	21.78	21.79	21.93	21.91		
15	16QAM	1	37	21.74	21.73	21.82	21.65		
15	16QAM	1	74	21.71	21.74	21.85	21.76	21.5	2
15	16QAM	36	0	20.60	20.66	20.85	20.76		
15	16QAM	36	20	20.68	20.72	20.84	20.80		
15	16QAM	36	39	20.63	20.80	20.90	20.76	21.5	2
15	16QAM	75	0	20.73	20.88	20.92	20.76		
15	64QAM	1	0	20.69	20.69	20.91	20.70		
15	64QAM	1	37	20.53	20.52	20.72	20.50	21.5	2
15	64QAM	1	74	20.67	20.72	20.83	20.72		
15	64QAM	36	0	19.55	19.72	19.79	19.79		
15	64QAM	36	20	19.70	19.76	19.89	19.82	20.5	3
15	64QAM	36	39	19.76	19.74	19.92	19.78		
15	64QAM	75	0	19.72	19.78	19.91	19.81		
Channel				40190	40490	40790	41140	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550	2580	2610	2645		
10	QPSK	1	0	22.85	22.70	22.87	22.83	23.5	0
10	QPSK	1	25	22.84	22.75	22.83	22.74		
10	QPSK	1	49	22.76					



Band 42 ANT5 DSI2									
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				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	24.33	24.45	24.39	25.5	0	
20	QPSK	1	49	24.38	24.42	24.36			
20	QPSK	1	99	24.32	24.41	24.35			
20	QPSK	50	0	23.47	23.54	23.49	24.5	1	
20	QPSK	50	24	23.46	23.47	23.39			
20	QPSK	50	50	23.42	23.49	23.42			
20	QPSK	100	0	23.52	23.58	23.57	24.5	1	
20	16QAM	1	0	23.25	23.31	23.28			
20	16QAM	1	49	23.17	23.23	23.17			
20	16QAM	1	99	23.19	23.27	23.23	23.5	2	
20	16QAM	50	0	22.22	22.24	22.19			
20	16QAM	50	24	22.21	22.23	22.15			
20	16QAM	50	50	22.21	22.29	22.24	23.5	2	
20	16QAM	100	0	22.23	22.31	22.20			
20	64QAM	1	0	22.87	22.94	22.83			
20	64QAM	1	49	22.82	22.85	22.75	23.5	2	
20	64QAM	1	99	22.83	22.91	22.83			
20	64QAM	50	0	22.10	22.19	22.13			
20	64QAM	50	24	22.07	22.17	22.12	22.5	3	
20	64QAM	50	50	22.12	22.21	22.16			
20	64QAM	100	0	22.26	22.34	22.31			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	24.16	24.27	24.21	25.5	0	
15	QPSK	1	37	24.27	24.21	24.16			
15	QPSK	1	74	24.16	24.24	24.16			
15	QPSK	36	0	23.31	23.33	23.31	24.5	1	
15	QPSK	36	20	23.33	23.29	23.25			
15	QPSK	36	39	23.26	23.36	23.26			
15	QPSK	75	0	23.40	23.47	23.38	24.5	1	
15	16QAM	1	0	23.16	23.27	23.24			
15	16QAM	1	37	23.06	23.20	23.16			
15	16QAM	1	74	23.09	23.21	23.19	23.5	2	
15	16QAM	36	0	22.13	22.14	22.13			
15	16QAM	36	20	22.12	22.18	22.10			
15	16QAM	36	39	22.16	22.24	22.22	23.5	2	
15	16QAM	75	0	22.22	22.21	22.16			
15	64QAM	1	0	22.85	22.87	22.77			
15	64QAM	1	37	22.81	22.83	22.70	23.5	2	
15	64QAM	1	74	22.80	22.87	22.73			
15	64QAM	36	0	21.99	22.11	22.11			
15	64QAM	36	20	21.96	22.12	22.03	22.5	3	
15	64QAM	36	39	22.06	22.11	22.08			
15	64QAM	75	0	22.23	22.26	22.23			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	24.19	24.28	24.23	25.5	0	
10	QPSK	1	25	24.18	24.29	24.17			
10	QPSK	1	49	24.18	24.21	24.18			
10	QPSK	25	0	23.29	23.39	23.29	24.5	1	
10	QPSK	25	12	23.27	23.31	23.26			
10	QPSK	25	25	23.23	23.33	23.23			
10	QPSK	50	0	23.34	23.47	23.41	24.5	1	
10	16QAM	1	0	23.16	23.25	23.23			
10	16QAM	1	25	23.13	23.13	23.15			
10	16QAM	1	49	23.16	23.23	23.14	23.5	2	
10	16QAM	25	0	22.21	22.14	22.12			
10	16QAM	25	12	22.14	22.12	22.07			
10	16QAM	25	25	22.15	22.22	22.18	23.5	2	
10	16QAM	50	0	22.16	22.26	22.10			
10	64QAM	1	0	22.77	22.92	22.75			
10	64QAM	1	25	22.73	22.83	22.68	23.5	2	
10	64QAM	1	49	22.73	22.85	22.78			
10	64QAM	25	0	22.06	22.09	22.09			
10	64QAM	25	12	21.98	22.12	22.08	22.5	3	
10	64QAM	25	25	22.06	22.13	22.14			
10	64QAM	50	0	22.22	22.31	22.24			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	24.17	24.34	24.19	25.5	0	
5	QPSK	1	12	24.27	24.29	24.17			
5	QPSK	1	24	24.16	24.27	24.16			
5	QPSK	12	0	23.29	23.43	23.32	24.5	1	
5	QPSK	12	7	23.31	23.30	23.27			
5	QPSK	12	13	23.28	23.38	23.30			
5	QPSK	25	0	23.39	23.38	23.43	24.5	1	
5	16QAM	1	0	23.18	23.23	23.21			
5	16QAM	1	12	23.15	23.13	23.15			
5	16QAM	1	24	23.12	23.21	23.15	23.5	2	
5	16QAM	12	0	22.15	22.18	22.14			
5	16QAM	12	7	22.17	22.18	22.11			
5	16QAM	12	13	22.17	22.20	22.23	23.5	2	
5	16QAM	25	0	22.17	22.27	22.18			
5	64QAM	1	0	22.85	22.88	22.78			
5	64QAM	1	12	22.73	22.75	22.65	23.5	2	
5	64QAM	1	24	22.81	22.81	22.75			
5	64QAM	12	0	22.00	22.09	22.02			
5	64QAM	12	7	22.05	22.08	22.02	22.5	3	
5	64QAM	12	13	22.03	22.19	22.14			
5	64QAM	25	0	22.18	22.25	22.24			



GSM850 Ant0 DS4

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.10	31.97	33.50	23.15	23.10	22.97	24.50
GPRS 1 Tx slot	32.21	32.04	31.89	33.50	23.21	23.04	22.89	24.50
GPRS 2 Tx slots	29.43	29.46	29.27	30.50	23.43	23.46	23.27	24.50
GPRS 3 Tx slots	27.33	27.74	27.67	28.50	23.07	23.48	23.41	24.24
GPRS 4 Tx slots	26.00	26.32	26.30	27.50	23.00	23.32	23.30	24.50
EDGE 1 Tx slot	25.94	25.96	25.85	27.50	16.94	16.96	16.85	18.50
EDGE 2 Tx slots	23.17	23.11	23.14	24.50	17.17	17.11	17.14	18.50
EDGE 3 Tx slots	21.19	21.24	21.16	23.00	16.93	16.98	16.90	18.74
EDGE 4 Tx slots	19.84	20.12	20.03	21.50	16.84	17.12	17.03	18.50

GSM1900 Ant0 DS4

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.66	27.81	27.69	28.50	18.66	18.81	18.69	19.50
GPRS 1 Tx slot	27.69	27.75	27.67	28.50	18.69	18.75	18.67	19.50
GPRS 2 Tx slots	27.16	27.20	27.12	27.50	21.16	21.20	21.12	21.50
GPRS 3 Tx slots	25.15	25.26	25.09	25.50	20.89	21.00	20.83	21.24
GPRS 4 Tx slots	23.17	23.52	23.43	24.50	20.17	20.52	20.43	21.50
EDGE 1 Tx slot	24.15	24.44	24.38	25.50	15.15	15.44	15.38	16.50
EDGE 2 Tx slots	23.04	23.01	22.99	23.50	17.04	17.01	16.99	17.50
EDGE 3 Tx slots	20.59	20.36	20.63	21.50	16.33	16.10	16.37	17.24
EDGE 4 Tx slots	20.27	19.93	20.18	20.50	17.27	16.93	17.18	17.50

WCDMA II Ant0 DS4

WCDMA IV Ant0 DS4

WCDMA V Ant0 DS4

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1637	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	21.24	21.23	21.12	22.50	21.76	21.87	21.85	23.50	24.71	24.74	24.72	25.50
3GPP Rel 99	AMR 12.2kbps	21.30	21.33	21.14	22.50	21.78	21.94	21.92	23.50	24.75	24.78	24.69	25.50
3GPP Rel 6	HSDPA Subtest-1	20.30	20.23	19.99	21.50	20.91	20.93	20.92	22.50	23.76	23.81	23.54	24.50
3GPP Rel 6	HSDPA Subtest-2	20.34	20.24	20.01	21.50	20.88	20.95	20.97	22.50	23.82	23.69	23.58	24.50
3GPP Rel 6	HSDPA Subtest-3	19.79	19.78	19.56	21.00	20.36	20.39	20.37	22.00	23.33	23.29	23.20	24.00
3GPP Rel 6	HSDPA Subtest-4	19.80	19.75	19.52	21.00	20.41	20.44	20.40	22.00	23.32	23.34	23.22	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	20.32	20.20	19.93	21.50	20.85	20.81	20.86	22.50	23.82	23.87	23.56	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.31	20.24	19.99	21.50	20.70	20.82	20.78	22.50	23.87	23.74	23.56	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.79	19.70	19.46	21.00	20.22	20.32	20.30	22.00	23.37	23.30	23.21	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.76	19.71	19.44	21.00	20.29	20.30	20.28	22.00	23.38	23.31	23.18	24.00
3GPP Rel 6	HSUPA Subtest-1	20.30	20.24	20.10	21.50	20.84	20.89	20.92	22.50	23.69	23.75	23.66	24.50
3GPP Rel 6	HSUPA Subtest-2	18.31	18.25	18.17	19.50	18.88	18.94	18.91	20.50	21.78	21.79	21.67	22.50
3GPP Rel 6	HSUPA Subtest-3	19.32	19.24	19.22	20.50	19.91	19.83	19.90	21.50	22.80	22.77	22.64	23.50
3GPP Rel 6	HSUPA Subtest-4	18.34	18.21	18.13	19.50	18.85	18.88	18.81	20.50	21.73	21.78	21.70	22.50
3GPP Rel 6	HSUPA Subtest-5	20.30	20.20	20.16	21.50	20.80	20.87	20.97	22.50	23.78	23.74	23.40	24.50



MINISTRY OF NATIONAL DEFENSE

Band 2 Ant0 DS14												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
20	QPSK	1	0	19.56	19.66	19.47						
20	QPSK	1	49	19.61	19.61	19.41	20.5	0				
20	QPSK	1	99	19.49	19.46	19.31						
20	QPSK	50	0	19.39	19.46	19.28						
20	QPSK	50	24	19.24	19.31	19.28	20.5	0				
20	QPSK	50	50	19.24	19.31	19.13						
20	QPSK	100	0	19.25	19.41	19.27						
20	16QAM	1	0	19.32	19.26	19.13						
20	16QAM	1	49	19.26	19.21	19.10	20.5	0				
20	16QAM	1	99	19.16	19.08	19.06						
20	16QAM	50	0	19.47	19.41	19.29						
20	16QAM	50	24	19.47	19.32	19.26	20.5	0				
20	16QAM	50	50	19.36	19.27	19.15						
20	16QAM	100	0	19.43	19.29	19.26						
20	64QAM	1	0	19.52	19.57	19.43						
20	64QAM	1	49	19.50	19.49	19.25	20.5	0				
20	64QAM	1	99	19.23	19.43	19.27						
20	64QAM	50	0	19.26	19.40	19.30						
20	64QAM	50	24	19.46	19.29	19.30	20.5	0				
20	64QAM	50	50	19.31	19.25	19.13						
20	64QAM	100	0	19.42	19.28	19.26						
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
15	QPSK	1	0	19.61	19.52	19.35						
15	QPSK	1	37	19.47	19.34	19.24	20.5	0				
15	QPSK	1	74	19.38	19.34	19.19						
15	QPSK	36	0	19.29	19.31	19.01						
15	QPSK	36	20	19.13	19.32	19.15	20.5	0				
15	QPSK	36	39	19.16	19.26	19.02						
15	QPSK	75	0	19.12	19.29	19.15						
15	16QAM	1	0	19.32	19.30	19.09						
15	16QAM	1	37	19.10	19.09	19.02	20.5	0				
15	16QAM	1	74	19.09	19.00	18.89						
15	16QAM	36	0	19.40	19.30	19.19						
15	16QAM	36	20	19.35	19.24	19.21	20.5	0				
15	16QAM	36	39	19.29	19.14	19.09						
15	16QAM	75	0	19.32	19.30	19.09						
15	64QAM	1	0	19.47	19.52	19.32						
15	64QAM	1	37	19.35	19.43	19.14	20.5	0				
15	64QAM	1	74	19.21	19.32	19.19						
15	64QAM	36	0	19.40	19.31	19.22						
15	64QAM	36	20	19.31	19.17	19.25	20.5	0				
15	64QAM	36	39	19.16	19.26	19.04						
15	64QAM	75	0	19.30	19.15	19.22						
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
10	QPSK	1	0	19.46	19.51	19.37						
10	QPSK	1	25	19.52	19.51	19.37	20.5	0				
10	QPSK	1	49	19.35	19.32	19.23						
10	QPSK	25	0	19.29	19.42	19.23						
10	QPSK	25	12	19.22	19.32	19.17	20.5	0				
10	QPSK	25	25	19.13	19.22	19.06						
10	QPSK	50	0	19.20	19.31	19.21						
10	16QAM	1	0	19.23	19.17	19.09						
10	16QAM	1	25	19.17	19.09	19.03	20.5	0				
10	16QAM	1	49	19.05	19.03	18.89						
10	16QAM	25	0	19.20	19.26	19.17						
10	16QAM	25	12	19.37	19.17	19.19	20.5	0				
10	16QAM	25	25	19.23	19.22	19.08						
10	16QAM	50	0	19.33	19.15	19.21						
10	64QAM	1	0	19.44	19.45	19.33						
10	64QAM	1	25	19.43	19.44	19.14	20.5	0				
10	64QAM	1	49	19.20	19.36	19.23						
10	64QAM	25	0	19.33	19.30	19.21						
10	64QAM	25	12	19.39	19.14	19.18	20.5	0				
10	64QAM	25	25	19.17	19.17	19.00						
10	64QAM	50	0	19.36	19.21	19.11						
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
5	QPSK	1	0	19.25	19.26	19.35						
5	QPSK	1	12	19.54	19.45	19.34	20.5	0				
5	QPSK	1	24	19.41	19.38	19.22						
5	QPSK	12	0	19.29	19.34	19.19						
5	QPSK	12	7	19.23	19.30	19.18	20.5	0				
5	QPSK	12	13	19.14	19.21	19.02						
5	QPSK	25	0	19.18	19.27	19.20						
5	16QAM	1	0	19.20	19.16	18.98						
5	16QAM	1	12	19.17	19.06	18.99	20.5	0				
5	16QAM	1	24	19.12	18.98	18.86						
5	16QAM	12	0	19.41	19.34	19.17						
5	16QAM	12	7	19.43	19.25	19.14	20.5	0				
5	16QAM	12	13	19.23	19.22	19.00						
5	16QAM	25	0	19.34	19.24	19.12						
5	64QAM	1	0	19.44	19.52	19.37						
5	64QAM	1	12	19.42	19.34	19.25	20.5	0				
5	64QAM	1	24	19.28	19.33	19.22						
5	64QAM	12	0	19.41	19.28	19.15						
5	64QAM	12	7	19.30	19.21	19.16	20.5	0				
5	64QAM	12	13	19.17	19.37	19.27						
5	64QAM	25	0	19.28	19.21	19.11						
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
3	QPSK	1	0	19.45	19.61	19.34						
3	QPSK	1	8	19.56	19.48	19.35	20.5	0				
3	QPSK	1	14	19.41	19.39	19.24						
3	QPSK	8	0	19.35	19.33	19.20						
3	QPSK	8	4	19.17	19.37	19.21	20.5	0				
3	QPSK	8	7	19.18	19.21	19.08						
3	QPSK	15	0	19.17	19.30	19.12						
3	16QAM	1	0	19.20	19.16	19.00						
3	16QAM	1	8	19.14	19.09	19.06	20.5	0				
3	16QAM	1	14	19.00	19.02	18.87						
3	16QAM	8	0	19.39	19.29	19.19						
3	16QAM	8	4	19.42	19.24	19.23	20.5	0				
3	16QAM	8	7	19.29	19.17	19.11						
3	16QAM	15	0	19.37	19.23	19.21						
3	64QAM	1	0	19.43	19.47	19.37						
3	64QAM	1	8	19.38	19.36	19.18	20.5	0				
3	64QAM	1	14	19.16	19.29	19.17						
3	64QAM	8	0	19.35	19.33	19.19						
3	64QAM	8	4	19.36	19.24	19.18	20.5	0				
3	64QAM	8	7	19.23	19.11	19.00						
3	64QAM	15	0	19.34	19.22	19.20						
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
1.4	QPSK	1	0	19.42	19.36	19.36						
1.4	QPSK	1	3	19.41	19.36	19.36	20.5	0				
1.4	QPSK	1	5	19.37	19.38	19.23						
1.4	QPSK	3	0	19.30	19.33	19.18						
1.4	QPSK	3	1	19.22	19.29	19.14	20.5	0				
1.4	QPSK	3	3	19.20	19.15	19.04						
1.4	QPSK	6	0	19.13	19.31	19.19						
1.4	16QAM	1	0	19.20	19.20	19.01						
1.4	16QAM	1	3	19.16	19.07	19.01	20.5	0				
1.4	16QAM	1	5	19.05	19.02	18.90						
1.4	16QAM	3	0	19.35	19.27	19.19						
1.4	16QAM	3	1	19.38	19.26	19.18	20.5	0				
1.4	16QAM	3	3	19.24	19.16	19.09						
1.4	16QAM	6	0	19.15	19.14	19.13	20.5	0				
1.4	64QAM	1	0	19.41	19.43	19.33						
1.4	64QAM	1	3	19.43	19.37	19.13	20.5	0				
1.4	64QAM	1	5	19.23	19.32	19.17						
1.4	64QAM	3	0	19.42	19.28	19.19						
1.4	64QAM	3	1	19.32	19.16	19.26	20.5	0				
1.4	64QAM	3	3	19.19	19.17	19.19						
1.4	64QAM	6	0	19.35	19.16	19.27	20.5	0				

Band 4 Ant0 DS14												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel										Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)												
20	QPSK	1	0	21.39	21.46	21.42						
20	QPSK	1	49	21.26	21.36	21.35	22.5	0				
20	QPSK	1	99	21.26	21.30	21.25						
20	QPSK	50	0	21.33	21.39	21.37						
20	QPSK	50	24	21.02	21.06	21.06	22.5	0				
20	QPSK	50	50	21.02	21.04	21.05						
20	QPSK	100	0	21.31	21.35	21.33						
20	16QAM	1	0	21.29	21.38	21.41						
20												



Band 7 Ant0 DS14									
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				2080	2100	2120			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	19.98	20.19	20.14			
20	QPSK	1	49	19.96	19.93	19.93	21	0	
20	QPSK	1	99	20.16	20.03	19.90			
20	QPSK	50	0	19.97	20.17	19.85			
20	QPSK	50	24	19.91	19.86	19.86	21	0	
20	QPSK	50	50	19.91	19.93	19.93			
20	QPSK	100	0	19.90	20.12	19.87			
20	16QAM	1	0	19.95	19.99	20.00			
20	16QAM	1	49	20.03	20.08	19.96	21	0	
20	16QAM	1	99	19.98	20.11	19.92			
20	16QAM	50	0	19.82	19.84	19.82			
20	16QAM	50	24	19.84	19.88	19.87	21	0	
20	16QAM	50	50	19.93	19.96	19.96			
20	16QAM	100	0	19.92	19.85	19.87			
20	64QAM	1	0	19.60	19.63	19.61			
20	64QAM	1	49	19.71	19.74	19.75	21	0	
20	64QAM	1	99	19.79	19.80	19.74			
20	64QAM	50	0	19.79	19.81	19.83			
20	64QAM	50	24	19.93	19.85	19.88	21	0	
20	64QAM	50	50	19.91	19.94	19.96			
20	64QAM	100	0	19.93	19.86	19.87			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	19.89	20.08	20.01	21	0	
15	QPSK	1	37	19.90	19.89	19.86			
15	QPSK	1	74	20.09	19.94	19.74			
15	QPSK	36	0	19.89	20.12	19.78			
15	QPSK	36	20	19.84	19.74	19.77	21	0	
15	QPSK	36	39	19.80	19.82	19.82			
15	QPSK	75	0	19.78	20.08	19.83			
15	16QAM	1	0	19.84	19.84	19.91	21	0	
15	16QAM	1	37	19.88	19.92	19.90			
15	16QAM	1	74	19.83	20.05	19.79			
15	16QAM	36	0	19.68	19.75	19.67	21	0	
15	16QAM	36	20	19.86	19.74	19.73			
15	16QAM	36	39	19.89	19.82	19.83			
15	16QAM	75	0	19.86	19.80	19.75			
15	64QAM	1	0	19.51	19.54	19.48			
15	64QAM	1	37	19.63	19.69	19.67	21	0	
15	64QAM	1	74	19.66	19.71	19.64			
15	64QAM	36	0	19.69	19.71	19.68			
15	64QAM	36	20	19.81	19.76	19.84	21	0	
15	64QAM	36	39	19.81	19.69	19.82			
15	64QAM	75	0	19.83	19.73	19.79			
Channel				20830	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	19.90	20.04	19.99			
10	QPSK	1	25	19.90	19.79	19.84	21	0	
10	QPSK	1	49	20.01	19.93	19.79			
10	QPSK	25	0	19.85	20.06	19.78			
10	QPSK	25	12	19.79	19.75	19.73	21	0	
10	QPSK	25	25	19.79	19.84	19.81			
10	QPSK	50	0	19.78	19.97	19.75			
10	16QAM	1	0	19.84	19.84	19.93			
10	16QAM	1	25	19.94	20.02	19.84	21	0	
10	16QAM	1	49	19.93	20.00	19.81			
10	16QAM	25	0	19.66	19.70	19.66			
10	16QAM	25	12	19.88	19.73	19.78	21	0	
10	16QAM	25	25	19.86	19.90	19.85			
10	16QAM	50	0	19.81	19.71	19.74			
10	64QAM	1	0	19.44	19.52	19.48			
10	64QAM	1	25	19.62	19.61	19.70	21	0	
10	64QAM	1	49	19.74	19.86	19.86			
10	64QAM	25	0	19.67	19.69	19.75			
10	64QAM	25	12	19.78	19.79	19.78	21	0	
10	64QAM	25	25	19.81	19.79	19.90			
10	64QAM	50	0	19.77	19.80	19.81			
Channel				3	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	19.83	20.03	20.00	21	0	
5	QPSK	1	12	19.85	19.75	19.83			
5	QPSK	1	24	20.11	19.88	19.85			
5	QPSK	12	0	19.88	20.12	19.77			
5	QPSK	12	7	19.79	19.76	19.73	21	0	
5	QPSK	12	13	19.79	19.78	19.78			
5	QPSK	25	0	19.81	20.04	19.75			
5	16QAM	1	0	19.80	19.86	19.89	21	0	
5	16QAM	1	12	19.90	19.97	19.85			
5	16QAM	1	24	19.92	20.00	19.78			
5	16QAM	12	0	19.74	19.76	19.69			
5	16QAM	12	7	19.81	19.75	19.82	21	0	
5	16QAM	12	13	19.82	19.88	19.87			
5	16QAM	25	0	19.83	19.81	19.75			
5	64QAM	1	0	19.54	19.55	19.49			
5	64QAM	1	12	19.58	19.61	19.66	21	0	
5	64QAM	1	24	19.68	19.75	19.60			
5	64QAM	12	0	19.65	19.69	19.78			
5	64QAM	12	7	19.77	19.76	19.76	21	0	
5	64QAM	12	13	19.76	19.84	19.91			
5	64QAM	25	0	19.64	19.71	19.76			

Band 12 Ant0 DS14									
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	24.57	24.69	24.64			
10	QPSK	1	25	24.61	24.64	24.51	25.5	0	
10	QPSK	1	49	24.67	24.65	24.61			
10	QPSK	25	0	23.69	23.89	23.68			
10	QPSK	25	12	23.74	23.71	23.80	24.5	1	
10	QPSK	25	25	23.53	23.86	23.81			
10	QPSK	50	0	23.83	23.86	23.80			
10	16QAM	1	0	23.75	23.73	23.73			
10	16QAM	1	25	23.85	23.79	23.61	24.5	1	
10	16QAM	1	49	23.77	23.73	23.72			
10	16QAM	25	0	22.82	22.72	22.69			
10	16QAM	25	12	22.88	22.69	22.71	23.5	2	
10	16QAM	25	25	22.90	22.85	22.92			
10	16QAM	50	0	22.92	22.86	22.74			
10	64QAM	1	0	22.87	22.60	22.66			
10	64QAM	1	25	22.61	22.57	22.77	23.5	2	
10	64QAM	1	49	22.64	22.70	22.92			
10	64QAM	25	0	21.85	21.68	21.75			
10	64QAM	25	12	21.87	21.75	21.68	22.5	3	
10	64QAM	25	25	21.88	21.62	21.77			
10	64QAM	50	0	21.90	21.80	21.63			
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.67	24.62	24.64			
5	QPSK	1	12	24.60	24.58	24.44	25.5	0	
5	QPSK	1	24	24.61	24.52	24.60			
5	QPSK	12	0	23.60	23.61	23.64			
5	QPSK	12	7	23.71	23.71	23.71	24.5	1	
5	QPSK	12	13	23.64	23.60	23.66			
5	QPSK	25	0	23.77	23.63	23.59			
5	16QAM	1	0	23.62	23.70	23.62			
5	16QAM	1	12	23.48	23.75	23.71	24.5	1	
5	16QAM	1	24	23.61	23.68	23.54			
5	16QAM	12	0	22.84	22.64	22.62			
5	16QAM	12	7	22.89	22.89	22.80	23.5	2	
5	16QAM	12	13	22.61	22.64	22.65			
5	16QAM	25	0	22.73	22.77	22.66			
5	64QAM	1	0	22.73	22.64	22.95			
5	64QAM	1	12	22.76	22.94	22.88	23.5	2	
5	64QAM	1	24	22.70	22.76	22.75			
5	64QAM	12	0	21.79	21.71	21.64			
5	64QAM	12	7	21.81	21.67	21.74	22.5	3	
5	64QAM	12	13	21.59	21.67	21.62			
5									



Band 17 Ant0 DSI4									
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				23780	23790	23800			
Frequency (MHz)				706	710	711			
10	QPSK	1	0	24.50	24.68	24.42			
10	QPSK	1	25	24.45	24.57	24.65	25.5	0	
10	QPSK	1	49	24.33	24.40	24.62			
10	QPSK	25	0	23.59	23.92	23.68			
10	QPSK	25	12	23.77	23.69	23.70	24.5	1	
10	QPSK	25	25	23.67	23.63	23.70			
10	QPSK	50	0	23.79	23.90	23.58			
10	16QAM	1	0	23.85	23.77	23.81			
10	16QAM	1	25	23.82	23.86	23.84	24.5	1	
10	16QAM	1	49	23.72	23.84	23.63			
10	16QAM	25	0	22.86	22.89	22.77			
10	16QAM	25	12	22.79	22.88	22.77	23.5	2	
10	16QAM	25	25	22.78	22.69	22.72			
10	16QAM	50	0	22.70	22.65	22.74			
10	64QAM	1	0	22.85	22.76	22.80			
10	64QAM	1	25	22.81	23.14	22.90	23.5	2	
10	64QAM	1	49	22.83	22.75	22.87			
10	64QAM	25	0	21.59	21.64	21.66			
10	64QAM	25	12	21.86	21.72	21.72	22.5	3	
10	64QAM	25	25	21.78	21.79	21.74			
10	64QAM	50	0	21.72	21.68	21.61			
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				706.5	710	713.5			
5	QPSK	1	0	24.67	24.67	24.56	25.5	0	
5	QPSK	1	12	24.39	24.59	24.58			
5	QPSK	1	24	24.62	24.56	24.66			
5	QPSK	12	0	23.62	23.77	23.70			
5	QPSK	12	7	23.66	23.64	23.67	24.5	1	
5	QPSK	12	13	23.73	23.70	23.74			
5	QPSK	25	0	23.64	23.70	23.60			
5	16QAM	1	0	23.88	23.75	23.70	24.5	1	
5	16QAM	1	12	23.87	23.75	24.14			
5	16QAM	1	24	23.84	24.16	23.98			
5	16QAM	12	0	22.80	22.77	22.67			
5	16QAM	12	7	22.85	22.57	22.83	23.5	2	
5	16QAM	12	13	22.70	22.57	22.77			
5	16QAM	25	0	22.80	22.83	22.71			
5	64QAM	1	12	22.69	22.76	22.73	23.5	2	
5	64QAM	1	24	22.70	22.55	22.64			
5	64QAM	12	0	21.80	21.75	21.62			
5	64QAM	12	7	21.62	21.72	21.89	22.5	3	
5	64QAM	12	13	21.66	21.54	21.63			
5	64QAM	25	0	21.57	21.61	21.66			

Band 26 Ant0 DSI4									
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	24.34	24.44	24.31			
15	QPSK	1	37	24.39	24.37	24.29	25.5	0	
15	QPSK	1	74	24.37	24.33	24.18			
15	QPSK	36	0	23.44	23.50	23.37			
15	QPSK	36	20	23.42	23.46	23.44	24.5	1	
15	QPSK	36	39	23.48	23.46	23.38			
15	QPSK	75	0	23.42	23.52	23.31			
15	16QAM	1	0	23.77	23.67	23.64			
15	16QAM	1	37	23.70	23.86	23.58	24.5	1	
15	16QAM	1	74	23.75	23.66	23.48			
15	16QAM	36	0	22.45	22.43	22.38			
15	16QAM	36	20	22.50	22.48	22.41	23.5	2	
15	16QAM	36	39	22.46	22.47	22.39			
15	16QAM	75	0	22.52	22.41	22.38			
15	64QAM	1	0	22.80	22.85	22.80			
15	64QAM	1	37	22.65	22.60	22.50	23.5	2	
15	64QAM	1	74	22.58	22.54	22.37			
15	64QAM	36	0	21.48	21.44	21.37			
15	64QAM	36	20	21.51	21.47	21.40	22.5	3	
15	64QAM	36	39	21.50	21.47	21.38			
15	64QAM	75	0	21.52	21.42	21.34			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	24.35	24.33	24.20	25.5	0	
10	QPSK	1	25	24.33	24.25	24.17			
10	QPSK	1	49	24.27	24.20	24.12			
10	QPSK	25	0	23.45	23.37	23.31			
10	QPSK	25	12	23.45	23.36	23.32	24.5	1	
10	QPSK	25	25	23.42	23.40	23.33			
10	QPSK	50	0	23.46	23.34	23.30			
10	16QAM	1	0	23.68	23.61	23.61	24.5	1	
10	16QAM	1	25	23.62	23.63	23.53			
10	16QAM	1	49	23.63	23.61	23.49			
10	16QAM	25	0	22.50	22.39	22.31			
10	16QAM	25	12	22.47	22.40	22.35	23.5	2	
10	16QAM	25	25	22.42	22.43	22.35			
10	16QAM	50	0	22.47	22.37	22.28			
10	64QAM	1	0	22.57	22.60	22.48	23.5	2	
10	64QAM	1	25	22.56	22.46	22.38			
10	64QAM	1	49	22.50	22.50	22.39			
10	64QAM	25	0	21.49	21.39	21.31	22.5	3	
10	64QAM	25	12	21.47	21.35	21.29			
10	64QAM	25	25	21.40	21.41	21.31			
10	64QAM	50	0	21.44	21.36	21.31			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	24.33	24.37	24.22	25.5	0	
5	QPSK	1	12	24.38	24.32	24.20			
5	QPSK	1	24	24.32	24.27	24.09			
5	QPSK	12	0	23.46	23.34	23.29	24.5	1	
5	QPSK	12	7	23.49	23.42	23.28			
5	QPSK	12	13	23.43	23.36	23.24			
5	QPSK	25	0	23.46	23.33	23.26			
5	16QAM	1	0	23.60	23.58	23.52	24.5	1	
5	16QAM	1	12	23.64	23.67	23.54			
5	16QAM	1	24	23.66	23.58	23.50			
5	16QAM	12	0	22.60	22.37	22.31	23.5	2	
5	16QAM	12	7	22.51	22.43	22.30			
5	16QAM	12	13	22.47	22.41	22.27			
5	16QAM	25	0	22.49	22.34	22.28			
5	64QAM	1	0	22.58	22.51	22.45	23.5	2	
5	64QAM	1	12	22.56	22.42	22.39			
5	64QAM	1	24	22.54	22.49	22.38			
5	64QAM	12	0	21.53	21.38	21.33	22.5	3	
5	64QAM	12	7	21.48	21.43	21.29			
5	64QAM	12	13	21.45	21.41	21.29			
5	64QAM	25	0	21.39	21.30	21.27			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	24.29	24.34	24.14	25.5	0	
3	QPSK	1	8	24.33	24.31	24.20			
3	QPSK	1	14	24.37	24.27	23.89			
3	QPSK	8	0	23.40	23.29	23.27	24.5	1	
3	QPSK	8	4	23.42	23.45	23.31			
3	QPSK	8	7	23.45	23.37	23.24			
3	QPSK	15	0	23.44	23.40	23.28	24.5	1	
3	16QAM	1	0	23.53	23.60	23.52			
3	16QAM	1	8	23.61	23.67	23.54	23.5	1	
3	16QAM	1	14	23.70	23.61	23.65			
3	16QAM	8	0	22.50	22.37	22.33			
3	16QAM	8	4	22.55	22.51	22.35	23.5	2	
3	16QAM	8	7	22.49	22.42	22.28			
3	16QAM	15	0	22.50	22.43	22.30			
3	64QAM	1	0	22.56	22.48	22.39	23.5	2	
3	64QAM	1	8	22.62	22.55	22.44			
3	64QAM	1	14	22.55	22.57	22.41			
3	64QAM	8	0	21.51	21.36	21.31	22.5	3	
3	64QAM	8	4	21.50	21.44	21.31			
3	64QAM	8	7	21.50	21.44	21.38			
3	64QAM	15	0	21.48	21.38	21.25			



Band 38 Ant0 DS14									
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	20.60	20.69	20.59	22	0	
20	QPSK	1	49	20.60	20.63	20.63			
20	QPSK	1	99	20.59	20.55	20.55			
20	QPSK	50	0	20.40	20.48	20.39	22	0	
20	QPSK	50	24	20.15	20.32	20.44			
20	QPSK	50	50	20.35	20.37	20.44			
20	QPSK	100	0	20.33	20.42	20.38	22	0	
20	16QAM	1	0	20.30	20.32	20.32			
20	16QAM	1	49	20.33	20.40	20.37			
20	16QAM	1	99	20.21	20.17	20.21	22	0	
20	16QAM	50	0	20.39	20.40	20.41			
20	16QAM	50	24	20.44	20.40	20.44			
20	16QAM	50	50	20.34	20.35	20.42	22	0	
20	16QAM	100	0	20.41	20.33	20.41			
20	64QAM	1	0	20.48	20.61	20.58			
20	64QAM	1	49	20.39	20.52	20.53	22	0	
20	64QAM	1	99	20.28	20.38	20.33			
20	64QAM	50	0	20.31	20.37	20.33			
20	64QAM	50	24	20.39	20.40	20.48	22	0	
20	64QAM	50	50	20.36	20.43	20.41			
20	64QAM	100	0	20.38	20.37	20.29			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	20.39	20.45	20.40	22	0	
15	QPSK	1	37	20.42	20.45	20.48			
15	QPSK	1	74	20.38	20.34	20.38			
15	QPSK	36	0	20.22	20.25	20.20	22	0	
15	QPSK	36	20	20.10	20.15	20.23			
15	QPSK	36	39	20.10	20.12	20.20			
15	QPSK	75	0	20.15	20.27	20.22	22	0	
15	16QAM	1	0	20.12	20.10	20.15			
15	16QAM	1	37	20.18	20.19	20.15			
15	16QAM	1	74	20.02	20.08	20.00	22	0	
15	16QAM	36	0	20.16	20.19	20.23			
15	16QAM	36	20	20.22	20.17	20.24			
15	16QAM	36	39	20.13	20.14	20.22	22	0	
15	16QAM	75	0	20.23	20.11	20.24			
15	64QAM	1	0	20.23	20.41	20.40			
15	64QAM	1	37	20.23	20.30	20.30	22	0	
15	64QAM	1	74	20.12	20.17	20.11			
15	64QAM	36	0	20.14	20.22	20.12			
15	64QAM	36	20	20.20	20.17	20.29	22	0	
15	64QAM	36	39	20.12	20.25	20.20			
15	64QAM	75	0	20.23	20.22	20.11			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	20.40	20.48	20.36	22	0	
10	QPSK	1	25	20.39	20.45	20.39			
10	QPSK	1	49	20.35	20.35	20.36			
10	QPSK	25	0	20.23	20.25	20.21	22	0	
10	QPSK	25	12	20.11	20.13	20.20			
10	QPSK	25	25	20.14	20.20	20.21			
10	QPSK	50	0	20.10	20.18	20.20	22	0	
10	16QAM	1	0	20.09	20.16	20.13			
10	16QAM	1	25	20.09	20.15	20.20			
10	16QAM	1	49	20.02	20.05	20.01	22	0	
10	16QAM	25	0	20.22	20.24	20.19			
10	16QAM	25	12	20.25	20.16	20.28			
10	16QAM	25	25	20.17	20.20	20.25	22	0	
10	16QAM	50	0	20.26	20.18	20.24			
10	64QAM	1	0	20.26	20.38	20.40			
10	64QAM	1	25	20.21	20.36	20.33	22	0	
10	64QAM	1	49	20.11	20.15	20.13			
10	64QAM	25	0	20.07	20.17	20.16			
10	64QAM	25	12	20.24	20.23	20.26	22	0	
10	64QAM	25	25	20.18	20.19	20.23			
10	64QAM	50	0	20.16	20.15	20.10			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	20.37	20.53	20.42	22	0	
5	QPSK	1	12	20.43	20.41	20.50			
5	QPSK	1	24	20.43	20.38	20.40			
5	QPSK	12	0	20.12	20.28	20.19	22	0	
5	QPSK	12	7	20.01	20.18	20.33			
5	QPSK	12	13	20.05	20.19	20.15			
5	QPSK	25	0	20.12	20.17	20.18	22	0	
5	16QAM	1	0	20.09	20.12	20.20			
5	16QAM	1	12	20.08	20.15	20.08			
5	16QAM	1	24	20.03	20.03	20.08	22	0	
5	16QAM	12	0	20.18	20.17	20.17			
5	16QAM	12	7	20.17	20.25	20.16			
5	16QAM	12	13	20.18	20.11	20.28	22	0	
5	16QAM	25	0	20.17	20.17	20.19			
5	64QAM	1	0	20.29	20.40	20.37			
5	64QAM	1	12	20.24	20.25	20.25	22	0	
5	64QAM	1	24	20.15	20.23	20.10			
5	64QAM	12	0	20.15	20.18	20.05			
5	64QAM	12	7	20.09	20.27	20.16	22	0	
5	64QAM	12	13	20.06	20.24	20.27			
5	64QAM	25	0	20.11	20.17	20.04			

Band 41 (2.6G Band) Ant0 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40240	40500	40770	41090		
Frequency (MHz)				2555	2581	2608	2640		
20	QPSK	1	0	21.69	21.73	21.86	21.79	23	0
20	QPSK	1	49	21.68	21.73	21.70	21.72		
20	QPSK	1	99	21.71	21.70	21.78	21.72		
20	QPSK	50	0	21.54	21.61	21.82	21.63	23	0
20	QPSK	50	24	21.51	21.58	21.57	21.54		
20	QPSK	50	50	21.44	21.57	21.66	21.47		
20	QPSK	100	0	21.52	21.46	21.79	21.51	23	0
20	16QAM	1	0	21.57	21.45	21.75	21.56		
20	16QAM	1	49	21.41	21.56	21.44	21.62		
20	16QAM	1	99	21.46	21.43	21.60	21.56	23	0
20	16QAM	50	0	21.47	21.42	21.74	21.66		
20	16QAM	50	24	21.39	21.61	21.44	21.55		
20	16QAM	50	50	21.54	21.37	21.65	21.65	23	0
20	16QAM	100	0	21.45	21.58	21.49	21.58		
20	64QAM	1	0	21.43	21.42	21.74	21.39		
20	64QAM	1	49	21.39	21.51	21.26	21.58	23	0
20	64QAM	1	99	21.42	21.42	21.51	21.39		
20	64QAM	50	0	21.32	21.32	21.62	21.61		
20	64QAM	50	24	21.35	21.44	21.41	21.52	22.5	0.5
20	64QAM	50	50	21.44	21.23	21.57	21.55		
20	64QAM	100	0	20.99	20.88	20.87	21.05		
Channel				40215	40495	40785	41115	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5		
15	QPSK	1	0	21.52	21.57	21.74	21.67	23	0
15	QPSK	1	37	21.52	21.55	21.61	21.56		
15	QPSK	1	74	21.50	21.58	21.65	21.53		
15	QPSK	36	0	21.37	21.55	21.58	21.44	23	0
15	QPSK	36	20	21.41	21.51	21.45	21.33		
15	QPSK	36	39	21.34	21.51	21.53	21.35		
15	QPSK	75	0	21.44	21.38	21.41	21.35	23	0
15	16QAM	1	0	21.37	21.55	21.58	21.44		
15	16QAM	1	37	21.41	21.51	21.45	21.33		
15	16QAM	1	74	21.34	21.51	21.53	21.35	23	0
15	16QAM	36	0	21.27	21.34	21.56	21.50		
15	16QAM	36	20	21.26	21.41	21.31	21.40		
15	16QAM	36	39	21.31	21.35	21.57	21.52	23	0
15	16QAM	75	0	21.29	21.44	21.30	21.38		
15	64QAM	1	0	21.34	21.38	21.51	21.30		
15	64QAM	1	37	21.29	21.34	21.45	21.50	23	0
15	64QAM	1	74	21.34	21.28	21.27	21.33		
15	64QAM	36	0	21.40	21.37	21.69	21.38		
15	64QAM	36	20	21.27	21.44	21.42	21.39	22.5	0.5
15	64QAM	36	39	21.38	21.38	21.44	21.28		
15	64QAM	75	0	20.75	20.75	20.76	20.85		
Channel				40190	40490	40790	41140	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2550	2580	2610	2645		
10	QPSK	1	0	21.50	21.57	21.70	21.64	23	0
10	QPSK	1	25	21.56	21.59	21.64	21.48		
10	QPSK	1	49	21.60	21.61	21.71	21.61		
10	QPSK	25	0	21					



GSM850 Ant4 DS4

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.14	32.27	32.11	33.50	23.14	23.27	23.11	24.50
GPRS 1 Tx slot	32.19	32.24	31.97	33.50	23.19	23.24	22.97	24.50
GPRS 2 Tx slots	29.66	29.69	29.46	30.50	23.66	23.59	23.46	24.50
GPRS 3 Tx slots	27.64	27.44	27.85	28.50	23.38	23.18	23.59	24.24
GPRS 4 Tx slots	26.48	26.54	26.45	27.50	23.48	23.54	23.45	24.50
EDGE 1 Tx slot	26.11	26.00	25.97	27.50	17.11	17.00	16.97	18.50
EDGE 2 Tx slots	23.36	23.54	23.16	24.50	17.36	17.54	17.16	18.50
EDGE 3 Tx slots	21.47	21.55	21.29	23.00	17.21	17.29	17.03	18.74
EDGE 4 Tx slots	20.09	20.40	20.13	21.50	17.09	17.40	17.13	18.50

GSM1900 Ant4 DS4

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.98	27.90	27.83	29.50	18.98	18.90	18.83	20.50
GPRS 1 Tx slot	28.02	27.92	27.86	29.50	19.02	18.92	18.86	20.50
GPRS 2 Tx slots	26.42	26.50	26.34	27.50	20.42	20.50	20.34	21.50
GPRS 3 Tx slots	24.35	24.51	24.29	25.50	20.09	20.25	20.03	21.24
GPRS 4 Tx slots	23.16	23.17	23.15	24.50	20.16	20.17	20.15	21.50
EDGE 1 Tx slot	24.39	24.60	24.44	25.50	15.39	15.60	15.44	16.50
EDGE 2 Tx slots	22.31	22.16	22.03	24.00	16.31	16.16	16.03	18.00
EDGE 3 Tx slots	19.76	19.56	19.49	21.00	15.50	15.30	15.23	16.74
EDGE 4 Tx slots	19.37	19.40	19.11	20.50	16.37	16.40	16.11	17.50

WCDMA II Ant4 DS4

WCDMA IV Ant4 DS4

WCDMA V Ant4 DS4

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1637	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	21.39	21.24	21.11	22.50	22.45	22.44	22.41	23.50	24.70	24.72	24.71	25.50
3GPP Rel 99	AMR 12.2kbps	21.34	21.42	21.13	22.50	22.48	22.51	22.47	23.50	24.71	24.73	24.68	25.50
3GPP Rel 6	HSDPA Subtest-1	20.42	20.48	20.24	21.50	21.53	21.63	21.58	22.50	23.82	23.80	23.72	24.50
3GPP Rel 6	HSDPA Subtest-2	20.41	20.37	20.16	21.50	21.67	21.66	21.61	22.50	23.78	23.79	23.71	24.50
3GPP Rel 6	HSDPA Subtest-3	19.82	19.67	19.71	21.00	21.17	21.19	20.87	22.00	23.28	23.32	23.16	24.00
3GPP Rel 6	HSDPA Subtest-4	19.85	19.90	19.62	21.00	21.11	21.19	21.24	22.00	23.26	22.85	23.21	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	20.24	20.49	20.01	21.50	21.77	21.68	21.69	22.50	23.81	23.88	23.70	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.17	20.47	20.24	21.50	21.58	21.71	21.66	22.50	23.80	23.76	23.60	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.86	19.84	19.70	21.00	21.06	21.04	20.92	22.00	23.27	23.22	23.27	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	20.06	19.86	19.69	21.00	21.09	21.36	21.22	22.00	23.29	23.00	23.23	24.00
3GPP Rel 6	HSUPA Subtest-1	20.23	20.41	20.09	21.50	21.67	21.73	21.59	22.50	23.74	23.72	23.62	24.50
3GPP Rel 6	HSUPA Subtest-2	18.34	18.37	18.15	19.50	19.58	19.63	19.68	20.50	21.74	21.70	21.64	22.50
3GPP Rel 6	HSUPA Subtest-3	19.19	19.44	19.12	20.50	20.60	20.59	20.77	21.50	22.71	22.73	22.65	23.50
3GPP Rel 6	HSUPA Subtest-4	18.42	18.37	18.35	19.50	19.70	19.70	19.64	20.50	21.72	21.77	21.67	22.50
3GPP Rel 6	HSUPA Subtest-5	20.24	20.35	20.08	21.50	21.58	21.63	21.66	22.50	23.70	23.65	23.60	24.50



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Band 2 Ant4 DS14										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.07	20.22	20.08				
20	QPSK	1	49	20.04	19.97	19.98	21	0		
20	QPSK	1	99	19.92	19.93	19.89				
20	QPSK	50	0	20.12	20.19	20.03				
20	QPSK	50	24	20.15	20.04	20.04				
20	QPSK	50	50	20.07	20.01	19.91				
20	QPSK	100	0	20.16	20.17	20.02				
20	16QAM	1	0	20.16	20.11	20.14				
20	16QAM	1	49	20.18	20.12	20.21	21	0		
20	16QAM	1	99	20.17	20.21	20.11				
20	16QAM	50	0	20.21	20.13	20.04				
20	16QAM	50	24	20.20	20.03	20.06				
20	16QAM	50	50	20.07	20.01	19.91	21	0		
20	16QAM	100	0	20.16	20.02	20.05				
20	64QAM	1	0	20.10	20.21	20.05				
20	64QAM	1	49	20.14	20.19	20.04	21	0		
20	64QAM	1	99	20.13	20.09	19.94				
20	64QAM	50	0	20.20	20.11	20.05				
20	64QAM	50	24	20.18	20.04	20.05				
20	64QAM	50	50	20.02	19.98	19.92	20.5	0.5		
20	64QAM	100	0	20.19	20.03	20.05				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.93	20.12	19.91				
15	QPSK	1	37	19.97	19.97	19.91	21	0		
15	QPSK	1	74	19.83	19.90	19.74				
15	QPSK	36	0	19.92	20.09	20.04				
15	QPSK	36	20	19.95	19.85	20.00				
15	QPSK	36	39	20.00	20.01	19.88	21	0		
15	QPSK	75	0	19.97	20.16	19.94				
15	16QAM	1	0	20.08	20.05	19.94				
15	16QAM	1	37	20.09	20.11	20.05	21	0		
15	16QAM	1	74	20.16	20.11	19.89				
15	16QAM	36	0	20.08	20.06	20.03				
15	16QAM	36	20	20.03	19.97	19.99	21	0		
15	16QAM	36	39	19.90	19.82	19.82				
15	16QAM	75	0	19.99	19.82	19.86				
15	64QAM	1	0	20.11	20.09	20.00				
15	64QAM	1	37	20.06	20.04	20.01	21	0		
15	64QAM	1	74	20.12	20.04	19.90				
15	64QAM	36	0	20.17	20.09	19.91				
15	64QAM	36	20	19.99	19.92	20.01	20.5	0.5		
15	64QAM	36	39	20.01	19.92	19.86				
15	64QAM	75	0	20.09	19.94	19.92				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.85	20.10	20.03				
10	QPSK	1	25	19.94	19.84	19.80	21	0		
10	QPSK	1	49	19.85	19.72	19.84				
10	QPSK	25	0	19.92	20.16	19.85				
10	QPSK	25	12	20.14	19.85	20.02				
10	QPSK	25	25	20.04	20.00	19.91	21	0		
10	QPSK	50	0	19.98	20.04	20.03				
10	16QAM	1	0	20.03	20.05	20.09				
10	16QAM	1	25	19.96	20.11	20.10	21	0		
10	16QAM	1	49	20.00	20.15	20.07				
10	16QAM	25	0	20.14	20.12	20.01				
10	16QAM	25	12	20.02	19.92	19.94	21	0		
10	16QAM	25	25	20.06	19.80	19.79				
10	16QAM	50	0	20.06	20.02	20.02				
10	64QAM	1	0	20.12	20.18	20.17				
10	64QAM	1	25	20.11	20.05	19.89	21	0		
10	64QAM	1	49	19.86	19.95	19.91				
10	64QAM	25	0	20.01	20.09	19.86				
10	64QAM	25	12	19.97	19.85	19.97				
10	64QAM	25	25	19.92	19.96	19.79	20.5	0.5		
10	64QAM	50	0	20.08	19.96	19.86				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.07	20.07	19.96				
5	QPSK	1	12	19.93	19.93	19.87	21	0		
5	QPSK	1	24	19.78	19.72	19.70				
5	QPSK	12	0	20.12	20.10	19.94				
5	QPSK	12	7	19.99	19.95	19.87	21	0		
5	QPSK	12	13	19.87	19.81	19.91				
5	QPSK	25	0	20.06	19.99	19.92				
5	16QAM	1	0	20.10	20.08	19.94				
5	16QAM	1	12	20.00	20.08	20.02	21	0		
5	16QAM	1	24	20.18	20.15	19.97				
5	16QAM	12	0	20.16	20.09	19.83				
5	16QAM	12	7	20.21	19.95	20.05	21	0		
5	16QAM	12	13	20.01	20.01	19.84				
5	16QAM	25	0	20.00	19.87	19.94				
5	64QAM	1	0	20.03	20.05	20.07				
5	64QAM	1	12	19.98	20.14	19.93	21	0		
5	64QAM	1	24	20.01	20.02	19.84				
5	64QAM	12	0	20.12	20.04	20.04				
5	64QAM	12	7	20.04	19.86	20.04	20.5	0.5		
5	64QAM	12	13	19.86	19.75	19.75				
5	64QAM	25	0	20.05	19.95	19.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.07	20.05	19.98				
3	QPSK	1	8	19.96	19.84	19.88	21	0		
3	QPSK	1	14	19.71	19.72	19.91				
3	QPSK	8	0	20.13	20.20	20.04				
3	QPSK	8	4	20.05	19.85	19.90	21	0		
3	QPSK	8	7	19.88	19.87	19.88				
3	QPSK	15	0	19.95	20.04	20.01				
3	16QAM	1	0	19.97	19.90	19.98				
3	16QAM	1	8	20.17	19.96	20.16	21	0		
3	16QAM	1	14	20.06	19.90	19.91				
3	16QAM	1	14	20.15	20.14	20.00				
3	16QAM	8	0	20.07	20.05	19.91				
3	16QAM	8	4	20.15	19.91	20.04	21	0		
3	16QAM	8	7	19.87	19.98	19.77				
3	16QAM	15	0	20.09	20.03	20.02				
3	64QAM	1	0	20.12	20.12	20.11				
3	64QAM	1	8	19.96	20.18	20.02	21	0		
3	64QAM	1	14	20.06	19.90	19.91				
3	64QAM	8	0	20.17	20.03	20.03				
3	64QAM	8	4	20.12	20.00	20.01	20.5	0.5		
3	64QAM	8	7	19.92	19.99	19.81				
3	64QAM	15	0	20.15	19.82	20.04				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.85	20.08	19.82				
1.4	QPSK	1	3	20.05	19.83	19.80	21	0		
1.4	QPSK	1	5	19.90	19.83	19.73				
1.4	QPSK	3	0	19.91	20.05	20.05				
1.4	QPSK	3	1	19.94	19.95	20.04				
1.4	QPSK	3	3	19.86	19.85	19.84				
1.4	QPSK	6	0	20.03	20.03	19.89	21	0		
1.4	16QAM	1	0	20.13	19.97	20.05				
1.4	16QAM	1	3	20.13	20.06	20.13				
1.4	16QAM	1	5	20.08	20.04	19.92				
1.4	16QAM	3	0	20.01	20.11	19.90	21	0		
1.4	16QAM	3	1	20.12	19.95	20.06				
1.4	16QAM	3	3	20.04	19.87	19.75				
1.4	16QAM	6	0	20.13	19.91	20.02	21	0		
1.4	64QAM	1	0	20.04	19.99	20.00				
1.4	64QAM	1	3	20.12	20.11	19.91				
1.4	64QAM	1	5	20.07	20.05	19.75	21	0		
1.4	64QAM	3	0	20.14	19.93	20.02				
1.4	64QAM	3	1	19.97	19.89	19.96				
1.4	64QAM	3	3	19.99	19.82	19.90	20.5	0.5		
1.4	64QAM	6	0	20.15	19.93	19.96				



Band 7 Ant4 DS14										
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										
20880 21100 21380										
Frequency (MHz)										
20	QPSK	1	0	19.53	19.77	19.45				
20	QPSK	1	49	19.54	19.56	19.59	20.5	0		
20	QPSK	1	99	19.57	19.60	19.64				
20	QPSK	50	0	19.59	19.74	19.63				
20	QPSK	50	24	19.72	19.66	19.72	20.5	0		
20	QPSK	50	50	19.71	19.67	19.64				
20	QPSK	100	0	19.65	19.70	19.67				
20	16QAM	1	0	19.73	19.68	19.72				
20	16QAM	1	49	19.63	19.62	19.68	20.5	0		
20	16QAM	1	99	19.66	19.57	19.62				
20	16QAM	50	0	19.62	19.64	19.65				
20	16QAM	50	24	19.73	19.69	19.73	20.5	0		
20	16QAM	50	50	19.74	19.76	19.59				
20	16QAM	100	0	19.73	19.67	19.73				
20	64QAM	1	0	19.62	19.60	19.71				
20	64QAM	1	49	19.76	19.65	19.63	20.5	0		
20	64QAM	50	0	19.62	19.61	19.60				
20	64QAM	50	0	19.61	19.60	19.63	20.5	0		
20	64QAM	50	24	19.73	19.66	19.71				
20	64QAM	50	50	19.74	19.74	19.70	20.5	0		
20	64QAM	100	0	19.74	19.66	19.72				
Channel										
20825 21100 21375										
Frequency (MHz)										
15	QPSK	1	0	19.33	19.69	19.40				
15	QPSK	1	37	19.35	19.35	19.40	20.5	0		
15	QPSK	1	74	19.39	19.46	19.59				
15	QPSK	36	0	19.39	19.74	19.55				
15	QPSK	36	20	19.68	19.50	19.70	20.5	0		
15	QPSK	36	39	19.71	19.50	19.82				
15	QPSK	75	0	19.63	19.63	19.60				
15	16QAM	1	0	19.58	19.56	19.65				
15	16QAM	1	37	19.62	19.52	19.63	20.5	0		
15	16QAM	1	74	19.63	19.40	19.64				
15	16QAM	36	0	19.55	19.53	19.56				
15	16QAM	36	20	19.71	19.52	19.58	20.5	0		
15	16QAM	36	39	19.64	19.73	19.56				
15	16QAM	75	0	19.74	19.56	19.66				
15	64QAM	1	0	19.54	19.49	19.68				
15	64QAM	1	37	19.74	19.45	19.57	20.5	0		
15	64QAM	1	74	19.49	19.55	19.48				
15	64QAM	36	0	19.51	19.47	19.48				
15	64QAM	36	20	19.54	19.57	19.62	20.5	0		
15	64QAM	36	39	19.53	19.58	19.61				
15	64QAM	75	0	19.60	19.63	19.60				
Channel										
20900 21100 21400										
Frequency (MHz)										
10	QPSK	1	0	19.42	19.59	19.36				
10	QPSK	1	25	19.52	19.57	19.60	20.5	0		
10	QPSK	1	49	19.58	19.62	19.62				
10	QPSK	25	0	19.43	19.66	19.63				
10	QPSK	25	12	19.66	19.50	19.61	20.5	0		
10	QPSK	25	25	19.61	19.50	19.65				
10	QPSK	50	0	19.55	19.64	19.50				
10	16QAM	1	0	19.69	19.67	19.62				
10	16QAM	1	25	19.62	19.42	19.80	20.5	0		
10	16QAM	1	49	19.57	19.42	19.46				
10	16QAM	25	0	19.46	19.53	19.59				
10	16QAM	25	12	19.57	19.65	19.69	20.5	0		
10	16QAM	25	25	19.66	19.61	19.41				
10	16QAM	50	0	19.51	19.63	19.54				
10	64QAM	1	0	19.59	19.40	19.56				
10	64QAM	1	25	19.56	19.54	19.53	20.5	0		
10	64QAM	1	49	19.52	19.46	19.51				
10	64QAM	25	0	19.46	19.51	19.63				
10	64QAM	25	12	19.67	19.52	19.73	20.5	0		
10	64QAM	25	25	19.62	19.62	19.58				
10	64QAM	50	0	19.64	19.49	19.60				
Channel										
20775 21100 21425										
Frequency (MHz)										
5	QPSK	1	0	19.49	19.58	19.23				
5	QPSK	1	12	19.54	19.42	19.47	20.5	0		
5	QPSK	1	24	19.52	19.46	19.52				
5	QPSK	12	0	19.42	19.62	19.56				
5	QPSK	12	7	19.66	19.66	19.50	20.5	0		
5	QPSK	12	13	19.59	19.46	19.63				
5	QPSK	25	0	19.44	19.63	19.59				
5	16QAM	1	0	19.66	19.65	19.69				
5	16QAM	1	24	19.49	19.47	19.44	20.5	0		
5	16QAM	12	0	19.61	19.62	19.43				
5	16QAM	12	7	19.66	19.55	19.62	20.5	0		
5	16QAM	12	13	19.54	19.66	19.40				
5	16QAM	25	0	19.57	19.47	19.73				
5	64QAM	1	0	19.62	19.41	19.73	20.5	0		
5	64QAM	1	12	19.55	19.47	19.61				
5	64QAM	1	24	19.55	19.62	19.39	20.5	0		
5	64QAM	12	0	19.55	19.51	19.53				
5	64QAM	12	7	19.52	19.59	19.62	20.5	0		
5	64QAM	12	13	19.66	19.71	19.54				
5	64QAM	25	0	19.54	19.47	19.60				

Band 12 Ant4 DS14										
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 23150										
Frequency (MHz)										
10	QPSK	1	0	24.58	24.76	24.57				
10	QPSK	1	25	24.54	24.54	24.37	25.5	0		
10	QPSK	1	49	24.58	24.60	24.61				
10	QPSK	25	0	23.57	23.78	23.63				
10	QPSK	25	12	23.76	23.61	23.47	24.5	1		
10	QPSK	25	25	23.65	23.61	23.55				
10	QPSK	50	0	23.70	23.73	23.68				
10	16QAM	1	0	24.13	23.82	23.76				
10	16QAM	1	25	23.76	24.06	23.74	24.5	1		
10	16QAM	1	49	23.75	23.83	24.08				
10	16QAM	25	0	22.85	22.56	22.56				
10	16QAM	25	12	22.81	22.75	22.59	23.5	2		
10	16QAM	25	25	22.69	22.58	22.60				
10	16QAM	50	0	22.70	22.65	22.66				
10	64QAM	1	0	22.71	22.72	22.66				
10	64QAM	1	25	22.59	22.75	22.63	23.5	2		
10	64QAM	1	49	22.61	22.88	22.61				
10	64QAM	25	0	21.69	21.62	21.56				
10	64QAM	25	12	21.79	21.62	21.72	22.5	3		
10	64QAM	25	25	21.64	21.59	21.73				
10	64QAM	50	0	21.71	21.56	21.49				
Channel										
23035 23095 23155										
Frequency (MHz)										
5	QPSK	1	0	24.50	24.75	24.70				
5	QPSK	1	12	24.71	24.68	24.61	25.5	0		
5	QPSK	1	24	24.72	24.74	24.66				
5	QPSK	12	0	23.79	23.81	23.78				
5	QPSK	12	7	23.77	23.83	23.79	24.5	1		
5	QPSK	12	13	23.89	23.80	23.72				
5	QPSK	25	0	23.88	23.75	23.77				
5	16QAM	1	0	23.63	23.76	23.65				
5	16QAM	1	12	23.86	23.77	23.83	24.5	1		
5	16QAM	1	24	23.73	23.87	23.86				
5	16QAM	12	0	22.86	22.82	22.72				
5	16QAM	12	7	22.77	22.86	22.98	23.5	2		
5	16QAM	12	13	22.67	22.79	22.75				
5	16QAM	25	0	22.66	22.72	22.67				
5	64QAM	1	0	23.07	22.86	23.02				
5	64QAM	1	12	22.75	22.90	22.98	23.5	2		
5	64QAM	1	24	22.81	23.07	23.10				
5	64QAM	12	0	21.86	21.75	21.69				
5										



Band 17 Ant4 DSI4										
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				23780	23790	23800				
Frequency (MHz)				706	710	711				
10	QPSK	1	0	24.42	24.74	24.45				
10	QPSK	1	25	24.50	24.45	24.43	25.5	0		
10	QPSK	1	49	24.44	24.51	24.60				
10	QPSK	25	0	23.51	23.67	23.50				
10	QPSK	25	12	23.58	23.53	23.56	24.5	1		
10	QPSK	25	25	23.62	23.61	23.50				
10	QPSK	50	0	23.62	23.66	23.43				
10	16QAM	1	0	23.63	23.51	23.76				
10	16QAM	1	25	23.68	23.64	23.51	24.5	1		
10	16QAM	1	49	23.40	23.70	23.62				
10	16QAM	25	0	22.59	22.58	22.53				
10	16QAM	25	12	22.59	22.43	22.56	23.5	2		
10	16QAM	25	25	22.64	22.73	22.61				
10	16QAM	50	0	22.57	22.64	22.48				
10	64QAM	1	0	22.45	22.50	22.54				
10	64QAM	1	25	22.71	22.57	22.59	23.5	2		
10	64QAM	1	49	22.52	22.54	22.75				
10	64QAM	25	0	21.43	21.70	21.49				
10	64QAM	25	12	21.65	21.60	21.54				
10	64QAM	25	25	21.66	21.55	21.70	22.5	3		
10	64QAM	50	0	21.58	21.52	21.53				
Channel				23755	23790	23825				
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	24.69	24.67	24.46	25.5	0		
5	QPSK	1	12	24.39	24.48	24.37				
5	QPSK	1	24	24.82	24.53	24.41				
5	QPSK	12	0	23.56	23.63	23.52				
5	QPSK	12	7	23.64	23.63	23.33	24.5	1		
5	QPSK	12	13	23.56	23.56	23.68				
5	QPSK	25	0	23.62	23.53	23.50				
5	16QAM	1	0	23.71	23.73	23.66	24.5	1		
5	16QAM	1	12	23.54	23.38	23.66				
5	16QAM	1	24	23.44	23.51	23.42				
5	16QAM	12	0	22.64	22.73	22.66				
5	16QAM	12	7	22.63	22.71	22.65	23.5	2		
5	16QAM	12	13	22.58	22.69	22.50				
5	16QAM	25	0	22.76	22.66	22.60				
5	64QAM	1	0	22.97	22.95	22.73	23.5	2		
5	64QAM	1	12	22.68	22.61	22.45				
5	64QAM	1	24	22.63	22.74	22.82				
5	64QAM	12	0	21.68	21.77	21.50				
5	64QAM	12	7	21.55	21.81	21.45	22.5	3		
5	64QAM	12	13	21.67	21.63	21.78				
5	64QAM	25	0	21.59	21.43	21.58				

Band 26 Ant4 DSI4										
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	24.42	24.48	24.38				
15	QPSK	1	37	24.36	24.30	24.34	25.5	0		
15	QPSK	1	74	24.38	24.28	24.23				
15	QPSK	36	0	23.52	23.54	23.26				
15	QPSK	36	20	23.30	23.46	23.28	24.5	1		
15	QPSK	36	39	23.31	23.28	23.36				
15	QPSK	75	0	23.39	23.49	23.43				
15	16QAM	1	0	23.35	23.48	23.38				
15	16QAM	1	37	23.24	23.38	23.34	24.5	1		
15	16QAM	1	74	23.29	23.46	23.19				
15	16QAM	36	0	22.44	22.38	22.28				
15	16QAM	36	20	22.40	22.33	22.17	23.5	2		
15	16QAM	36	39	22.35	22.38	22.17				
15	16QAM	75	0	22.42	22.37	22.28				
15	64QAM	1	0	22.32	22.54	22.38				
15	64QAM	1	37	22.21	22.35	22.20	23.5	2		
15	64QAM	1	74	22.33	22.41	22.31				
15	64QAM	36	0	21.43	21.55	21.49				
15	64QAM	36	20	21.33	21.32	21.35	22.5	3		
15	64QAM	36	39	21.36	21.29	21.28				
15	64QAM	75	0	21.32	21.47	21.47				
Channel				26740	26865	26960				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.37	24.35	24.35	25.5	0		
10	QPSK	1	25	24.21	24.21	24.25				
10	QPSK	1	49	24.25	24.26	24.07				
10	QPSK	25	0	23.39	23.45	23.11				
10	QPSK	25	12	23.23	23.44	23.23	24.5	1		
10	QPSK	25	25	23.12	23.10	23.35				
10	QPSK	50	0	23.36	23.43	23.32				
10	16QAM	1	0	23.35	23.32	23.20				
10	16QAM	1	25	23.18	23.18	23.18	24.5	1		
10	16QAM	1	49	23.09	23.42	23.07				
10	16QAM	25	0	22.40	22.18	22.21				
10	16QAM	25	12	22.21	22.28	22.07	23.5	2		
10	16QAM	25	25	22.27	22.19	22.09				
10	16QAM	50	0	22.33	22.36	22.16				
10	64QAM	1	0	22.38	22.39	22.28				
10	64QAM	1	25	22.04	22.27	22.15	23.5	2		
10	64QAM	1	49	22.13	22.33	22.14				
10	64QAM	25	0	21.41	21.38	21.39				
10	64QAM	25	12	21.29	21.16	21.20	22.5	3		
10	64QAM	25	25	21.26	21.28	21.18				
10	64QAM	50	0	21.15	21.43	21.34				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.32	24.39	24.22	25.5	0		
5	QPSK	1	12	24.29	24.24	24.41				
5	QPSK	1	24	24.25	24.20	24.20				
5	QPSK	12	0	23.35	23.54	23.22				
5	QPSK	12	7	23.29	23.45	23.32	24.5	1		
5	QPSK	12	13	23.16	23.19	23.29				
5	QPSK	25	0	23.30	23.37	23.54				
5	16QAM	1	0	23.34	23.32	23.39	24.5	1		
5	16QAM	1	12	23.22	23.34	23.37				
5	16QAM	1	24	23.12	23.33	23.12				
5	16QAM	12	0	22.30	22.41	22.28	23.5	2		
5	16QAM	12	7	22.40	22.33	22.12				
5	16QAM	12	13	22.20	22.25	22.08				
5	16QAM	25	0	22.49	22.30	22.23				
5	64QAM	1	0	22.31	22.51	22.44	23.5	2		
5	64QAM	1	12	22.27	22.31	22.23				
5	64QAM	1	24	22.20	22.38	22.25				
5	64QAM	12	0	21.34	21.43	21.49	22.5	3		
5	64QAM	12	7	21.32	21.32	21.40				
5	64QAM	12	13	21.32	21.33	21.11				
5	64QAM	25	0	21.22	21.40	21.48				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.41	24.33	24.40	25.5	0		
3	QPSK	1	8	24.21	24.14	24.37				
3	QPSK	1	14	24.39	24.33	24.10				
3	QPSK	8	0	23.43	23.41	23.31				
3	QPSK	8	4	23.21	23.49	23.12	24.5	1		
3	QPSK	8	7	23.21	23.34	23.25				
3	QPSK	15	0	23.30	23.30	23.33				
3	16QAM	1	0	23.23	23.41	23.32	24.5	1		
3	16QAM	1	8	23.13	23.34	23.39				
3	16QAM	1	14	23.24	23.41	23.22				
3	16QAM	8	0	22.38	22.30	22.20	23.5	2		
3	16QAM	8	4	22.28	22.18	22.07				
3	16QAM	8	7	22.28	22.24	22.17				
3										



Band 38 Ant4 DS14									
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	21.21	21.47	21.19	22	0	
20	QPSK	1	49	21.27	21.15	21.43			
20	QPSK	1	99	21.27	21.10	21.13			
20	QPSK	50	0	20.99	21.29	21.06	22	0	
20	QPSK	50	24	21.16	20.99	21.21			
20	QPSK	50	50	21.09	20.92	20.91			
20	QPSK	100	0	20.81	20.91	20.84	22	0	
20	16QAM	1	0	20.96	21.30	21.03			
20	16QAM	1	49	21.10	20.95	21.28			
20	16QAM	1	99	21.09	20.89	20.87	21.5	0.5	
20	16QAM	50	0	20.39	20.84	20.50			
20	16QAM	50	24	20.56	20.79	20.65			
20	16QAM	50	50	20.66	20.48	20.38	21.5	0.5	
20	16QAM	100	0	20.57	20.40	20.39			
20	64QAM	1	0	20.45	20.82	20.49			
20	64QAM	1	49	20.60	20.80	20.70	21.5	0.5	
20	64QAM	1	99	20.58	20.41	20.42			
20	64QAM	50	0	19.49	19.81	19.48			
20	64QAM	50	24	19.48	19.76	19.75	20.5	1.5	
20	64QAM	50	50	19.71	19.58	19.44			
20	64QAM	100	0	19.51	19.39	19.38			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	21.00	21.27	20.93	22	0	
15	QPSK	1	37	21.17	21.01	21.21			
15	QPSK	1	74	21.06	20.81	21.01			
15	QPSK	36	0	20.72	21.05	20.83	22	0	
15	QPSK	36	20	20.91	20.70	21.09			
15	QPSK	36	39	20.90	20.82	20.78			
15	QPSK	75	0	20.63	20.64	20.56	22	0	
15	16QAM	1	0	20.67	21.06	20.91			
15	16QAM	1	37	20.90	20.85	21.04			
15	16QAM	1	74	20.84	20.64	20.68	21.5	0.5	
15	16QAM	36	0	20.11	20.58	20.30			
15	16QAM	36	20	20.44	20.60	20.39			
15	16QAM	36	39	20.40	20.35	20.14	21.5	0.5	
15	16QAM	75	0	20.40	20.14	20.12			
15	64QAM	1	0	20.34	20.66	20.23			
15	64QAM	1	37	20.40	20.67	20.41	21.5	0.5	
15	64QAM	1	74	20.37	20.26	20.24			
15	64QAM	36	0	19.38	19.68	19.21			
15	64QAM	36	20	19.35	19.48	19.45	20.5	1.5	
15	64QAM	36	39	19.48	19.36	19.26			
15	64QAM	75	0	19.24	19.28	19.27			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	21.03	21.29	20.96	22	0	
10	QPSK	1	25	21.03	21.02	21.30			
10	QPSK	1	49	21.02	20.81	20.90			
10	QPSK	25	0	20.71	21.14	20.91	22	0	
10	QPSK	25	12	20.95	20.87	21.04			
10	QPSK	25	25	20.87	20.70	20.72			
10	QPSK	50	0	20.57	20.64	20.62	22	0	
10	16QAM	1	0	20.83	21.13	20.77			
10	16QAM	1	25	21.00	20.76	21.02			
10	16QAM	1	49	20.90	20.68	20.64	21.5	0.5	
10	16QAM	25	0	20.52	20.71	20.33			
10	16QAM	25	12	20.28	20.60	20.37			
10	16QAM	25	25	20.50	20.35	20.33	21.5	0.5	
10	16QAM	50	0	20.29	20.24	20.10			
10	64QAM	1	0	20.29	20.60	20.36			
10	64QAM	1	25	20.37	20.58	20.46	21.5	0.5	
10	64QAM	1	49	20.47	20.26	20.28			
10	64QAM	25	0	19.21	19.61	19.21			
10	64QAM	25	12	19.20	19.48	19.48	20.5	1.5	
10	64QAM	25	25	19.59	19.43	19.32			
10	64QAM	50	0	19.32	19.11	19.09			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	21.04	21.28	20.96	22	0	
5	QPSK	1	12	21.16	21.01	21.14			
5	QPSK	1	24	21.02	20.98	21.00			
5	QPSK	12	0	20.77	21.07	20.81	22	0	
5	QPSK	12	7	20.91	20.84	20.95			
5	QPSK	12	13	20.94	20.68	20.80			
5	QPSK	25	0	20.56	20.81	20.59	22	0	
5	16QAM	1	0	20.81	21.01	20.73			
5	16QAM	1	12	20.85	20.71	20.58			
5	16QAM	1	24	20.62	20.69	20.65	21.5	0.5	
5	16QAM	12	0	20.15	20.56	20.37			
5	16QAM	12	7	20.35	20.42	20.38			
5	16QAM	12	13	20.39	20.22	20.13	21.5	0.5	
5	16QAM	25	0	20.38	20.19	20.17			
5	64QAM	1	0	20.52	20.70	20.36			
5	64QAM	1	12	20.32	20.61	20.51	21.5	0.5	
5	64QAM	1	24	20.38	20.26	20.30			
5	64QAM	12	0	19.27	19.58	19.24			
5	64QAM	12	7	19.25	19.54	19.52	20.5	1.5	
5	64QAM	12	13	19.54	19.38	19.25			
5	64QAM	25	0	19.27	19.19	19.21			

Band 41 (2.6G Band) Ant4 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power Middle High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				40240	40500	40770	41090		
Frequency (MHz)				2555	2581	2608	2640		
20	QPSK	1	0	21.23	21.30	21.62	21.52	22	0
20	QPSK	1	49	21.46	21.59	21.50	21.37		
20	QPSK	1	99	21.27	21.32	21.50	21.42		
20	QPSK	50	0	20.47	20.47	20.68	20.44	22	0
20	QPSK	50	24	20.37	20.57	20.51	20.53		
20	QPSK	50	50	20.41	20.54	20.58	20.54		
20	QPSK	100	0	20.55	20.56	20.69	20.53	22	0
20	16QAM	1	0	20.48	20.60	20.71	20.55		
20	16QAM	1	49	20.54	20.60	20.68	20.65		
20	16QAM	1	99	20.35	20.60	20.48	20.52	21.5	0.5
20	16QAM	50	0	19.86	19.84	20.25	20.01		
20	16QAM	50	24	19.81	20.13	19.94	20.06		
20	16QAM	50	50	19.81	20.06	20.08	20.09	21.5	0.5
20	16QAM	100	0	20.13	20.06	20.10	20.04		
20	64QAM	1	0	19.93	19.89	20.27	20.02		
20	64QAM	1	49	19.92	20.11	19.99	19.98	21.5	0.5
20	64QAM	1	99	19.80	19.93	20.05	20.03		
20	64QAM	50	0	18.91	18.86	19.19	19.02		
20	64QAM	50	24	18.77	19.10	18.93	19.03	20.5	1.5
20	64QAM	50	50	18.86	19.05	19.11	19.15		
20	64QAM	100	0	19.18	19.06	19.12	19.05		
Channel				40215	40495	40785	41115		
Frequency (MHz)				2552.5	2580.5	2609.5	2642.5		
15	QPSK	1	0	21.05	21.13	21.35	21.28	22	0
15	QPSK	1	37	21.22	21.34	21.27	21.19		
15	QPSK	1	74	21.09	21.10	21.26	21.15		
15	QPSK	36	0	20.20	20.29	20.55	20.25	22	0
15	QPSK	36	20	20.13	20.36	20.29	20.36		
15	QPSK	36	39	20.21	20.30	20.39	20.37		
15	QPSK	75	0	20.37	20.41	20.43	20.28	22	0
15	16QAM	1	0	20.28	20.35	20.49	20.28		
15	16QAM	1	37	20.28	20.34	20.51	20.47		
15	16QAM	1	74	20.10	20.42	20.22	20.38	21.5	0.5
15	16QAM	36	0	19.66	19.60	20.02	19.87		
15	16QAM	36	20	19.67	19.90	19.69	19.83		
15	16QAM	36	39	19.57	19.81	19.90	19.93	21.5	0.5
15	16QAM	75	0	19.97	19.83	19.89	19.86		
15	64QAM	1	0	19.69	19.69	20.03	19.87		
15	64QAM	1	37	19.74	19.94	19.77	19.81	21.5	0.5
15	64QAM	1	74	19.63	19.67	19.91	19.84		
15	64QAM	36	0	18.72	18.69	18.96	18.84		
15	64QAM	36	20	18.55	18.87	18.70	18.84	20.5	1.5
15	64QAM	36	39	18.70	18.78	18.85	19.02		
15	64QAM	75	0	18.93	18.83	18.87	18.81		
Channel				40190	40490	40790	41140		
Frequency (MHz)				2550	2580	2610	2645		
10	QPSK	1	0	20.98	21.05	21.39	21.34	22	0
10	QPSK	1	25	21.31	21.42	21.32	21.15		
10	QPSK	1	49	21.13	21.07	21.35	21.19		
10									



Band 42 Ant5 DS14									
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				42190	42590	42990	22.5	0	
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.66	21.76	21.72	22.5	0	
20	QPSK	1	49	21.58	21.64	21.54			
20	QPSK	1	99	21.52	21.60	21.50			
20	QPSK	50	0	21.67	21.70	21.67	22.5	0	
20	QPSK	50	24	21.68	21.69	21.59			
20	QPSK	50	50	21.67	21.73	21.68			
20	QPSK	100	0	21.83	21.84	21.58	22.5	0	
20	16QAM	1	0	21.80	21.83	21.59			
20	16QAM	1	49	21.55	21.58	21.47			
20	16QAM	1	99	21.45	21.54	21.52	22.5	0	
20	16QAM	50	0	21.82	21.71	21.84			
20	16QAM	50	24	21.63	21.70	21.68			
20	16QAM	50	50	21.71	21.75	21.65	22.5	0	
20	16QAM	100	0	21.71	21.70	21.71			
20	64QAM	1	0	21.19	21.21	21.15			
20	64QAM	1	49	21.19	21.24	21.16	22.5	0	
20	64QAM	1	99	21.15	21.24	21.21			
20	64QAM	50	0	21.19	21.29	21.19			
20	64QAM	50	24	21.22	21.26	21.17	22.5	0	
20	64QAM	50	50	21.23	21.30	21.21			
20	64QAM	100	0	21.27	21.30	21.21			
Channel				42165	42590	43015	22.5	0	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	21.63	21.72	21.63	22.5	0	
15	QPSK	1	37	21.50	21.58	21.45			
15	QPSK	1	74	21.49	21.52	21.41			
15	QPSK	36	0	21.64	21.60	21.56	22.5	0	
15	QPSK	36	20	21.64	21.62	21.56			
15	QPSK	36	39	21.62	21.71	21.65			
15	QPSK	75	0	21.60	21.54	21.51	22.5	0	
15	16QAM	1	0	21.59	21.58	21.52			
15	16QAM	1	37	21.49	21.50	21.45			
15	16QAM	1	74	21.42	21.44	21.46	22.5	0	
15	16QAM	36	0	21.57	21.69	21.56			
15	16QAM	36	20	21.56	21.60	21.62			
15	16QAM	36	39	21.64	21.66	21.57	22.5	0	
15	16QAM	75	0	21.67	21.75	21.66			
15	64QAM	1	0	21.15	21.14	21.09			
15	64QAM	1	37	21.11	21.14	21.07	22.5	0	
15	64QAM	1	74	21.10	21.16	21.15			
15	64QAM	36	0	21.15	21.20	21.13			
15	64QAM	36	20	21.15	21.17	21.13	22.5	0	
15	64QAM	36	39	21.22	21.25	21.16			
15	64QAM	75	0	21.20	21.27	21.12			
Channel				42140	42590	43040	22.5	0	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	21.64	21.67	21.71	22.5	0	
10	QPSK	1	25	21.52	21.59	21.46			
10	QPSK	1	49	21.47	21.51	21.42			
10	QPSK	25	0	21.62	21.62	21.58	22.5	0	
10	QPSK	25	12	21.62	21.65	21.51			
10	QPSK	25	25	21.66	21.70	21.61			
10	QPSK	50	0	21.53	21.57	21.54	22.5	0	
10	16QAM	1	0	21.50	21.54	21.56			
10	16QAM	1	25	21.47	21.49	21.41			
10	16QAM	1	49	21.39	21.44	21.41	22.5	0	
10	16QAM	25	0	21.55	21.68	21.54			
10	16QAM	25	12	21.57	21.60	21.61			
10	16QAM	25	25	21.67	21.65	21.63	22.5	0	
10	16QAM	50	0	21.66	21.70	21.66			
10	64QAM	1	0	21.09	21.18	21.12			
10	64QAM	1	25	21.13	21.16	21.15	22.5	0	
10	64QAM	1	49	21.09	21.14	21.12			
10	64QAM	25	0	21.11	21.25	21.15			
10	64QAM	25	12	21.15	21.21	21.07	22.5	0	
10	64QAM	25	25	21.22	21.25	21.15			
10	64QAM	50	0	21.23	21.21	21.11			
Channel				42115	42590	43065	22.5	0	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	21.59	21.68	21.64	22.5	0	
5	QPSK	1	12	21.47	21.60	21.49			
5	QPSK	1	24	21.47	21.58	21.49			
5	QPSK	12	0	21.65	21.65	21.60	22.5	0	
5	QPSK	12	7	21.64	21.67	21.54			
5	QPSK	12	13	21.60	21.64	21.59			
5	QPSK	25	0	21.59	21.57	21.48	22.5	0	
5	16QAM	1	0	21.56	21.52	21.56			
5	16QAM	1	12	21.47	21.47	21.41			
5	16QAM	1	24	21.37	21.48	21.43	22.5	0	
5	16QAM	12	0	21.51	21.67	21.62			
5	16QAM	12	7	21.59	21.60	21.59			
5	16QAM	12	13	21.64	21.71	21.55	22.5	0	
5	16QAM	25	0	21.61	21.68	21.67			
5	64QAM	1	0	21.16	21.10	21.05			
5	64QAM	1	12	21.08	21.16	21.08	22.5	0	
5	64QAM	1	24	21.05	21.20	21.20			
5	64QAM	12	0	21.08	21.20	21.18			
5	64QAM	12	7	21.18	21.24	21.08	22.5	0	
5	64QAM	12	13	21.13	21.28	21.11			
5	64QAM	25	0	21.17	21.21	21.18			



Reduced power level for WWAN-ENDC

Band 2 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				18700	18900	19100			
20	QPSK	1	0	15.40	15.41	15.42	16.5	0	
20	QPSK	1	49	15.37	15.42	15.34			
20	QPSK	1	99	15.23	15.41	15.36			
20	QPSK	50	0	15.30	15.46	15.44			
20	QPSK	50	24	15.40	15.42	15.25			
20	QPSK	50	50	15.17	15.39	15.31			
20	QPSK	100	0	15.27	15.42	15.23			
20	16QAM	1	0	15.32	15.38	15.20			
20	16QAM	1	49	15.37	15.36	15.15			
20	16QAM	1	99	15.30	15.31	15.11			
20	16QAM	50	0	15.29	15.29	15.29			
20	16QAM	50	24	15.19	15.31	15.29			
20	16QAM	50	50	15.17	15.26	15.23			
20	16QAM	100	0	15.31	15.32	15.30			
20	64QAM	1	0	15.19	15.31	15.16			
20	64QAM	1	49	15.05	15.23	15.05			
20	64QAM	1	99	15.35	15.34	15.33			
20	64QAM	50	0	15.18	15.29	15.07			
20	64QAM	50	24	15.21	15.42	15.20			
20	64QAM	50	50	15.30	15.32	15.24			
20	64QAM	100	0	15.33	15.36	15.32			
Channel									
Frequency (MHz)				18975	18900	19025			
15	QPSK	1	0	15.21	15.33	15.28	16.5	0	
15	QPSK	1	37	15.21	15.40	15.23			
15	QPSK	1	74	15.18	15.27	15.15			
15	QPSK	36	0	15.16	15.33	15.34			
15	QPSK	36	20	15.23	15.21	15.18			
15	QPSK	36	39	15.04	15.27	15.28			
15	QPSK	75	0	15.22	15.31	15.11			
15	16QAM	1	0	15.19	15.13	15.21			
15	16QAM	1	37	15.27	15.27	15.00			
15	16QAM	1	74	15.21	15.15	15.10			
15	16QAM	36	0	15.24	15.08	15.22			
15	16QAM	36	20	15.03	15.11	15.09			
15	16QAM	36	39	15.08	15.22	15.19			
15	16QAM	75	0	15.30	15.32	15.13			
15	64QAM	1	0	15.19	15.13	15.04			
15	64QAM	1	37	15.21	15.14	15.21			
15	64QAM	1	74	15.14	15.33	15.28			
15	64QAM	36	0	15.10	15.29	15.29			
15	64QAM	36	20	15.16	15.25	15.12			
15	64QAM	36	39	15.24	15.34	15.02			
15	64QAM	75	0	15.13	15.22	15.26			
Channel									
Frequency (MHz)				18950	18900	19050			
10	QPSK	1	0	15.48	15.45	15.36	16.5	0	
10	QPSK	1	25	15.21	15.41	15.28			
10	QPSK	1	49	15.09	15.33	15.23			
10	QPSK	25	0	15.18	15.38	15.45			
10	QPSK	25	12	15.23	15.22	15.24			
10	QPSK	25	25	15.06	15.28	15.19			
10	QPSK	50	0	15.07	15.25	15.11			
10	16QAM	1	0	15.28	15.17	15.15			
10	16QAM	1	25	15.20	15.17	15.05			
10	16QAM	1	49	15.25	15.24	15.10			
10	16QAM	25	0	15.17	15.13	15.28			
10	16QAM	25	12	15.11	15.18	15.09			
10	16QAM	25	25	15.01	15.04	15.02			
10	16QAM	50	0	15.11	15.12	15.12			
10	64QAM	1	0	15.04	15.15	15.17			
10	64QAM	1	25	15.16	15.03	15.21			
10	64QAM	1	49	15.21	15.32	15.13			
10	64QAM	25	0	15.01	15.30	15.04			
10	64QAM	25	12	15.12	15.35	15.17			
10	64QAM	25	25	15.08	15.15	15.11			
10	64QAM	50	0	15.11	15.23	15.31			
Channel									
Frequency (MHz)				18925	18900	19075			
5	QPSK	1	0	15.42	15.33	15.25	16.5	0	
5	QPSK	1	12	15.21	15.39	15.35			
5	QPSK	1	24	15.10	15.30	15.36			
5	QPSK	12	0	15.10	15.27	15.28			
5	QPSK	12	7	15.35	15.41	15.21			
5	QPSK	12	13	15.21	15.39	15.13			
5	QPSK	25	0	15.07	15.25	15.07			
5	16QAM	1	0	15.15	15.38	15.15			
5	16QAM	1	12	15.30	15.18	15.12			
5	16QAM	1	24	15.13	15.31	15.32			
5	16QAM	12	0	15.09	15.25	15.11			
5	16QAM	12	7	15.05	15.29	15.26			
5	16QAM	12	13	15.23	15.23	15.17			
5	16QAM	25	0	15.29	15.16	15.10			
5	64QAM	1	0	15.15	15.23	15.09			
5	64QAM	1	12	15.02	15.18	15.23			
5	64QAM	1	24	15.37	15.23	15.31			
5	64QAM	12	0	15.21	15.30	15.32			
5	64QAM	12	7	15.13	15.42	15.01			
5	64QAM	12	13	15.14	15.25	15.03			
5	64QAM	25	0	15.29	15.23	15.19			
Channel									
Frequency (MHz)				18915	18900	19185			
3	QPSK	1	0	15.42	15.36	15.34	16.5	0	
3	QPSK	1	8	15.22	15.40	15.20			
3	QPSK	1	14	15.22	15.39	15.26			
3	QPSK	8	0	15.09	15.37	15.45			
3	QPSK	8	4	15.32	15.30	15.13			
3	QPSK	8	7	15.23	15.23	15.25			
3	QPSK	15	0	15.15	15.32	15.02			
3	16QAM	1	0	15.22	15.18	15.19			
3	16QAM	1	8	15.26	15.35	15.20			
3	16QAM	1	14	15.19	15.30	15.27			
3	16QAM	8	0	15.14	15.21	15.24			
3	16QAM	8	4	15.17	15.17	15.08			
3	16QAM	8	7	15.12	15.27	15.16			
3	16QAM	15	0	15.31	15.19	15.20			
3	64QAM	1	0	15.15	15.16	15.08			
3	64QAM	1	8	15.32	15.10	15.32			
3	64QAM	1	14	15.13	15.30	15.22			
3	64QAM	8	0	15.13	15.08	15.18			
3	64QAM	8	4	15.19	15.27	15.05			
3	64QAM	8	7	15.27	15.19	15.25			
3	64QAM	15	0	15.32	15.32	15.10			
Channel									
Frequency (MHz)				18907	18900	19193			
1.4	QPSK	1	0	15.29	15.48	15.26	16.5	0	
1.4	QPSK	1	3	15.37	15.24	15.27			
1.4	QPSK	1	5	15.20	15.39	15.38			
1.4	QPSK	3	0	15.13	15.41	15.30			
1.4	QPSK	3	1	15.33	15.25	15.04			
1.4	QPSK	3	3	15.00	15.22	15.29			
1.4	QPSK	6	0	15.17	15.40	15.12			
1.4	16QAM	1	0	15.25	15.18	15.11			
1.4	16QAM	1	3	15.33	15.25	15.03			
1.4	16QAM	1	5	15.29	15.19	15.10			
1.4	16QAM	3	0	15.25	15.08	15.07			
1.4	16QAM	3	1	15.11	15.25	15.23			
1.4	16QAM	3	3	15.13	15.10	15.13			
1.4	16QAM	6	0	15.27	15.26	15.28			
1.4	64QAM	1	0	15.02	15.30	15.07			
1.4	64QAM	1	3	15.00	15.20	15.26			
1.4	64QAM	1	5	15.15	15.24	15.22			
1.4	64QAM	3	0	15.05	15.17	15.03			
1.4	64QAM	3	1	15.09	15.33	15.23			
1.4	64QAM	3	3	15.09	15.22	15.08			
1.4	64QAM	6	0	15.26	15.14	15.19			

Band 5 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				20450	20525	20600			
10	QPSK	1	0	21.09	21.43	21.13	22.5	0	
10	QPSK	1	25	21.16	21.14	21.35			
10	QPSK	1	49	20.99	20.96	20.98			
10	QPSK								



Band 26 DSI1									
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	21.43	21.59	21.43			
15	QPSK	1	37	21.29	21.34	21.29	22.5	0	
15	QPSK	1	74	21.15	21.30	21.33			
15	QPSK	36	0	21.42	21.53	21.52			
15	QPSK	36	20	21.50	21.51	21.29	22.5	0	
15	QPSK	36	39	21.19	21.36	21.36			
15	QPSK	75	0	21.35	21.46	21.25			
15	16QAM	1	0	21.34	21.40	21.19			
15	16QAM	1	37	21.38	21.33	21.15	22.5	0	
15	16QAM	1	74	21.29	21.37	21.18			
15	16QAM	36	0	21.28	21.35	21.38			
15	16QAM	36	20	21.29	21.37	21.32	22.5	0	
15	16QAM	36	39	21.08	21.32	21.18			
15	16QAM	75	0	21.30	21.27	21.20			
15	64QAM	1	0	21.10	21.28	21.27			
15	64QAM	1	37	20.99	21.10	20.98	22.5	0	
15	64QAM	1	74	21.39	21.32	21.22			
15	64QAM	36	0	21.27	21.31	21.08			
15	64QAM	36	20	21.23	21.35	21.13	22.5	0	
15	64QAM	36	39	21.27	21.21	21.14			
15	64QAM	75	0	21.37	21.41	21.23			
Channel				26740	26850	26960			
Frequency (MHz)				810	831.5	844			
10	QPSK	1	0	21.32	21.32	21.25			
10	QPSK	1	25	21.24	21.20	21.18	22.5	0	
10	QPSK	1	49	21.10	21.30	21.37			
10	QPSK	25	0	21.18	21.31	21.32			
10	QPSK	25	12	21.25	21.38	21.08	22.5	0	
10	QPSK	25	25	21.10	21.27	21.10			
10	QPSK	50	0	21.25	21.28	21.20			
10	16QAM	1	0	21.14	21.20	21.14			
10	16QAM	1	25	21.18	21.20	21.00	22.5	0	
10	16QAM	1	49	21.28	21.19	21.07			
10	16QAM	25	0	21.10	21.30	21.18			
10	16QAM	25	12	21.05	21.31	21.16	22.5	0	
10	16QAM	25	25	21.17	21.15	21.03			
10	16QAM	50	0	21.30	21.16	21.25			
10	64QAM	1	0	21.09	21.17	20.97			
10	64QAM	1	25	20.87	21.14	20.99	22.5	0	
10	64QAM	1	49	21.21	21.24	21.30			
10	64QAM	25	0	21.09	21.22	21.06			
10	64QAM	25	12	21.09	21.23	21.01	22.5	0	
10	64QAM	25	25	21.16	21.22	21.19			
10	64QAM	50	0	21.16	21.26	21.14			
Channel				26715	26825	26935			
Frequency (MHz)				815.5	831.5	846.5			
5	QPSK	1	0	21.39	21.39	21.34			
5	QPSK	1	12	21.37	21.38	21.34	22.5	0	
5	QPSK	1	24	21.11	21.23	21.30			
5	QPSK	12	0	21.22	21.33	21.44			
5	QPSK	12	7	21.40	21.37	21.04	22.5	0	
5	QPSK	12	13	21.09	21.32	21.13			
5	QPSK	25	0	21.06	21.36	21.07			
5	16QAM	1	0	21.11	21.30	21.11			
5	16QAM	1	12	21.22	21.30	20.97	22.5	0	
5	16QAM	1	24	21.21	21.26	20.99			
5	16QAM	12	0	21.13	21.16	21.18			
5	16QAM	12	7	21.12	21.28	21.10	22.5	0	
5	16QAM	12	13	21.15	21.15	21.11			
5	16QAM	25	0	21.12	21.24	21.26			
5	64QAM	1	0	21.02	21.11	21.12			
5	64QAM	1	12	21.02	21.24	20.86	22.5	0	
5	64QAM	1	24	21.30	21.13	21.17			
5	64QAM	12	0	21.15	21.07	20.98			
5	64QAM	12	7	21.17	21.30	21.01	22.5	0	
5	64QAM	12	13	21.25	21.21	21.21			
5	64QAM	25	0	21.13	21.31	21.24			
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	21.40	21.39	21.42			
3	QPSK	1	8	21.27	21.41	21.23	22.5	0	
3	QPSK	1	14	21.18	21.36	21.22			
3	QPSK	8	0	21.08	21.39	21.44			
3	QPSK	8	4	21.25	21.39	21.26	22.5	0	
3	QPSK	8	7	21.11	21.23	21.09			
3	QPSK	15	0	21.05	21.26	21.06			
3	16QAM	1	0	21.20	21.38	21.08			
3	16QAM	1	8	21.27	21.17	21.01	22.5	0	
3	16QAM	1	14	21.21	21.12	21.04			
3	16QAM	8	0	21.09	21.25	21.25			
3	16QAM	8	4	21.09	21.16	21.14	22.5	0	
3	16QAM	8	7	21.06	21.20	21.01			
3	16QAM	15	0	21.16	21.26	21.27			
3	64QAM	1	0	21.15	21.29	21.03			
3	64QAM	1	8	20.98	21.04	21.02	22.5	0	
3	64QAM	1	14	21.31	21.26	21.17			
3	64QAM	8	0	20.99	21.19	20.94			
3	64QAM	8	4	21.21	21.36	21.09	22.5	0	
3	64QAM	8	7	21.19	21.15	21.05			
3	64QAM	15	0	21.21	21.39	21.13			
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	21.45	21.51	21.25			
1.4	QPSK	1	3	21.34	21.31	21.13	22.5	0	
1.4	QPSK	1	5	21.14	21.31	21.23			
1.4	QPSK	3	0	21.09	21.40	21.27			
1.4	QPSK	3	1	21.25	21.40	21.07			
1.4	QPSK	3	3	20.96	21.36	21.26			
1.4	QPSK	6	0	21.21	21.42	21.09	22.5	0	
1.4	16QAM	1	0	21.23	21.24	21.06			
1.4	16QAM	1	3	21.16	21.29	21.03			
1.4	16QAM	1	5	21.10	21.18	21.05	22.5	0	
1.4	16QAM	3	0	21.13	21.12	21.26			
1.4	16QAM	3	1	21.02	21.16	21.30			
1.4	16QAM	3	3	21.01	21.07	21.07			
1.4	16QAM	6	0	21.18	21.16	21.25	22.5	0	
1.4	64QAM	1	0	21.18	21.27	21.17			
1.4	64QAM	1	3	20.99	21.14	20.91			
1.4	64QAM	1	5	21.37	21.18	21.25	22.5	0	
1.4	64QAM	3	0	20.98	21.22	21.00			
1.4	64QAM	3	1	21.01	21.32	21.07			
1.4	64QAM	3	3	21.31	21.16	21.15			
1.4	64QAM	6	0	21.34	21.36	21.12	22.5	0	



Band 38 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	16.85	17.21	16.83	17.5	0	
20	QPSK	1	49	16.77	16.79	16.85			
20	QPSK	1	99	16.89	16.94	16.84			
20	QPSK	50	0	16.50	17.01	16.77			
20	QPSK	50	24	16.81	16.94	16.79	17.5	0	
20	QPSK	50	49	16.81	16.99	16.88			
20	QPSK	100	0	16.84	16.92	16.87			
20	16QAM	1	0	17.02	16.96	16.91	17.5	0	
20	16QAM	1	49	16.83	16.77	16.81			
20	16QAM	1	99	16.96	16.91	16.92			
20	16QAM	50	0	16.76	16.96	16.87			
20	16QAM	50	24	16.99	16.99	16.95	17.5	0	
20	16QAM	50	49	17.00	17.00	16.99			
20	16QAM	100	0	16.91	16.92	16.92			
20	16QAM	1	0	16.54	16.92	16.88			
20	16QAM	1	49	16.78	16.74	16.82	17.5	0	
20	16QAM	1	99	16.83	16.77	16.81			
20	16QAM	50	0	16.89	16.83	16.84			
20	16QAM	50	24	16.90	16.96	16.96	17.5	0	
20	16QAM	50	49	16.99	16.93	16.95			
20	16QAM	100	0	16.93	16.87	16.93			
Channel									
Frequency (MHz)				37925	38000	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	16.72	17.09	16.82	17.5	0	
15	QPSK	1	37	16.87	16.79	16.86			
15	QPSK	1	74	16.74	16.81	16.75			
15	QPSK	36	0	16.83	16.99	16.91	17.5	0	
15	QPSK	36	18	16.89	16.95	16.88			
15	QPSK	36	36	16.94	16.89	16.84			
15	QPSK	75	0	16.92	16.98	16.95			
15	16QAM	1	0	16.80	17.03	16.83	17.5	0	
15	16QAM	1	37	16.77	16.96	16.74			
15	16QAM	1	74	16.80	16.75	16.96			
15	16QAM	36	0	16.80	16.97	16.87	17.5	0	
15	16QAM	36	18	16.87	16.97	16.85			
15	16QAM	36	36	17.03	16.97	16.96			
15	16QAM	75	0	17.03	16.97	16.96			
15	16QAM	1	0	16.59	16.84	16.84	17.5	0	
15	16QAM	1	37	16.83	16.86	16.86			
15	16QAM	1	74	16.79	16.83	16.70			
15	16QAM	36	0	16.78	16.81	16.75	17.5	0	
15	16QAM	36	18	16.89	16.83	16.82			
15	16QAM	36	36	16.91	17.01	16.84			
15	16QAM	75	0	16.86	16.93	16.91			
Channel									
Frequency (MHz)				37975	38000	38195	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	16.74	17.02	16.81	17.5	0	
10	QPSK	1	49	16.87	16.90	16.75			
10	QPSK	1	99	16.79	16.91	16.73			
10	QPSK	25	0	16.83	16.96	16.86	17.5	0	
10	QPSK	25	12	16.95	16.94	16.85			
10	QPSK	25	25	16.85	17.04	16.89			
10	QPSK	50	0	16.86	16.96	16.83			
10	16QAM	1	0	17.01	16.95	17.02	17.5	0	
10	16QAM	1	25	16.87	16.86	16.83			
10	16QAM	1	49	16.84	16.79	16.92			
10	16QAM	25	0	16.84	16.79	16.91	17.5	0	
10	16QAM	25	12	16.96	16.96	16.86			
10	16QAM	25	25	16.89	16.95	16.94			
10	16QAM	50	0	17.01	17.00	16.96			
10	16QAM	1	0	16.56	16.66	16.65	17.5	0	
10	16QAM	1	25	16.85	16.81	16.72			
10	16QAM	1	49	16.78	16.71	16.71			
10	16QAM	25	0	16.87	16.92	16.79	17.5	0	
10	16QAM	25	12	16.99	16.88	17.03			
10	16QAM	25	25	17.01	16.91	16.94			
10	16QAM	50	0	16.94	16.78	17.01			
Channel									
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	16.51	17.01	16.97	17.5	0	
5	QPSK	1	12	16.86	16.79	16.97			
5	QPSK	1	24	16.84	16.86	16.85			
5	QPSK	12	0	16.84	17.00	16.95	17.5	0	
5	QPSK	12	7	16.85	16.99	16.81			
5	QPSK	12	13	16.89	17.00	16.96			
5	QPSK	25	0	16.98	16.92	16.84			
5	16QAM	1	0	16.88	16.87	16.87	17.5	0	
5	16QAM	1	12	16.87	17.01	16.93			
5	16QAM	1	24	16.84	16.82	16.89			
5	16QAM	12	0	16.83	16.87	16.96	17.5	0	
5	16QAM	12	7	17.00	16.99	16.94			
5	16QAM	12	13	16.96	17.00	17.01			
5	16QAM	25	0	17.03	17.05	16.84			
5	16QAM	1	0	16.58	16.56	16.74	17.5	0	
5	16QAM	1	12	16.73	16.70	16.84			
5	16QAM	1	24	16.89	16.88	16.83			
5	16QAM	12	0	16.85	16.83	16.92	17.5	0	
5	16QAM	12	7	16.85	16.85	17.02			
5	16QAM	12	13	17.00	16.93	16.93			
5	16QAM	25	0	16.80	16.94	16.97			

Band 41 (2.6G Band) ANT4 DS11									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				40440	40500	40770			
20	QPSK	1	0	17.93	18.00	18.02	18.5	0	
20	QPSK	1	49	17.84	17.70	17.68			
20	QPSK	1	99	17.66	17.77	17.69			
20	QPSK	50	0	17.53	17.90	17.53	18.5	0	
20	QPSK	50	24	17.74	17.76	17.66			
20	QPSK	50	49	17.75	17.66	17.67			
20	QPSK	100	0	17.63	17.74	17.61			
20	16QAM	1	0	17.69	17.56	17.54	18.5	0	
20	16QAM	1	49	17.75	17.67	17.67			
20	16QAM	1	99	17.53	17.72	17.59			
20	16QAM	50	0	17.94	17.85	17.69	18.5	0	
20	16QAM	50	24	17.68	17.54	17.64			
20	16QAM	50	49	17.49	17.80	17.68			
20	16QAM	100	0	17.73	17.76	17.55			
20	16QAM	1	0	17.73	17.70	17.53	18.5	0	
20	16QAM	1	49	17.67	17.65	17.69			
20	16QAM	1	99	17.84	17.81	17.78			
20	16QAM	50	0	17.43	17.66	17.44	18.5	0	
20	16QAM	50	24	17.41	17.87	17.62			
20	16QAM	50	49	17.68	17.75	17.70			
20	16QAM	100	0	17.76	17.87	17.83	17.66		
Channel									
Frequency (MHz)				40515	40605	40935	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	17.90	17.97	17.96	18.5	0	
15	QPSK	1	37	17.79	17.66	17.61			
15	QPSK	1	74	17.62	17.68	17.63	17.68		
15	QPSK	36	0	17.68	17.75	17.61	17.78		
15	QPSK	36	18	17.61	17.79	17.66			
15	QPSK	36	36	17.32	17.57	17.63	17.62		
15	QPSK	75	0	17.81	17.68	17.64	17.65		
15	16QAM	1	0	17.62	17.67	17.63	18.5	0	
15	16QAM	1	37	17.75	17.60	17.47	17.52		
15	16QAM	1	74	17.63	17.69	17.73	17.40		
15	16QAM	36	0	17.60	17.69	17.63	17.48		
15	16QAM	36	18	17.45	17.44	17.44	17.41		
15	16QAM	36	36	17.58	17.67	17.61	17.46		
15	16QAM	75	0	17.80	17.54	17.60	17.48		
15	16QAM	1	0	17.64	17.67	17.61	17.41		
15	16QAM	1	37	17.57	17.51	17.53	17.56		
15	16QAM	1	74	17.70	17.69	17.73	17.40		
15	16QAM	36	0	17.50	17.59	17.57	17.69		
15	16QAM	36	18	17.62	17.73	17.65	17.63		
15	16QAM	36	36	17.64	17.65	17.60	17.50		
15	16QAM	75	0	17.62	17.66	17.64	17.60		
Channel									
Frequency (MHz)									



Uplink CA Power

Ant 0 Full Power		DS11&2									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	24.25	25.50	
21100	21298	QPSK	1	99	1	0	2	0	24.27	25.50	
21350	21152	QPSK	1	0	1	99	2	0	24.29	25.50	
20850	21048	QPSK	1	49	50	0	2	0	23.46	24.50	
21100	21298	QPSK	1	49	50	0	2	0	23.34	24.50	
21350	21152	QPSK	50	0	1	49	2	0	23.34	24.50	

Ant 0 Full Power		DS11&2									
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	24.03	25.50	
37901	38099	QPSK	1	99	1	0	2	0	23.93	25.50	
38150	37952	QPSK	1	0	1	99	2	0	23.95	25.50	
37850	38048	QPSK	1	49	50	0	2	0	23.24	24.50	
37901	38099	QPSK	1	49	50	0	2	0	23.11	24.50	
38150	37952	QPSK	50	0	1	49	2	0	23.24	24.50	

Ant 4 Full Power		DS12									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	22.50	23.50	
21100	21298	QPSK	1	99	1	0	2	0	22.58	23.50	
21350	21152	QPSK	1	0	1	99	2	0	22.50	23.50	
20850	21048	QPSK	1	49	50	0	2	0	21.64	22.50	
21100	21298	QPSK	1	49	50	0	2	0	21.50	22.50	
21350	21152	QPSK	50	0	1	49	2	0	21.56	22.50	

Ant 4 Full Power		DS12									
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	22.80	23.50	
37901	38099	QPSK	1	99	1	0	2	0	22.82	23.50	
38150	37952	QPSK	1	0	1	99	2	0	22.71	23.50	
37850	38048	QPSK	1	49	50	0	2	0	21.65	22.50	
37901	38099	QPSK	1	49	50	0	2	0	21.66	22.50	
38150	37952	QPSK	50	0	1	49	2	0	21.59	22.50	

Ant 0 Down Power		DS14									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	20.13	21.00	
21100	21298	QPSK	1	99	1	0	2	0	20.18	21.00	
21350	21152	QPSK	1	0	1	99	2	0	19.99	21.00	
20850	21048	QPSK	1	49	50	0	2	0	19.99	21.00	
21100	21298	QPSK	1	49	50	0	2	0	20.01	21.00	
21350	21152	QPSK	50	0	1	49	2	0	20.00	21.00	

Ant 0 Down Power		DS14									
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	20.59	22.00	
37901	38099	QPSK	1	99	1	0	2	0	20.61	22.00	
38150	37952	QPSK	1	0	1	99	2	0	20.56	22.00	
37850	38048	QPSK	1	49	50	0	2	0	20.48	22.00	
37901	38099	QPSK	1	49	50	0	2	0	20.51	22.00	
38150	37952	QPSK	50	0	1	49	2	0	20.50	22.00	

Ant 4 Down Power		DS11									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	18.27	19.00	
21100	21298	QPSK	1	99	1	0	2	0	18.22	19.00	
21350	21152	QPSK	1	0	1	99	2	0	18.18	19.00	
20850	21048	QPSK	1	49	50	0	2	0	18.14	19.00	
21100	21298	QPSK	1	49	50	0	2	0	18.11	19.00	
21350	21152	QPSK	50	0	1	49	2	0	18.14	19.00	

Ant 4 Down Power		DS11									
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	19.86	20.50	
37901	38099	QPSK	1	99	1	0	2	0	19.92	20.50	
38150	37952	QPSK	1	0	1	99	2	0	19.90	20.50	
37850	38048	QPSK	1	49	50	0	2	0	19.85	20.50	
37901	38099	QPSK	1	49	50	0	2	0	19.88	20.50	
38150	37952	QPSK	50	0	1	49	2	0	19.78	20.50	

Ant 4 Down Power		DS14									
CA_7C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	99	1	0	2	0	19.58	20.50	
21100	21298	QPSK	1	99	1	0	2	0	19.69	20.50	
21350	21152	QPSK	1	0	1	99	2	0	19.64	20.50	
20850	21048	QPSK	1	49	50	0	2	0	19.65	20.50	
21100	21298	QPSK	1	49	50	0	2	0	19.67	20.50	
21350	21152	QPSK	50	0	1	49	2	0	19.66	20.50	

Ant 4 Down Power		DS14									
CA_38C											
Combination 20MHz+20MHz (1RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	1	0	2	0	21.41	22.00	
37901	38099	QPSK	1	99	1	0	2	0	21.28	22.00	
38150	37952	QPSK	1	0	1	99	2	0	21.26	22.00	
37850	38048	QPSK	1	49	50	0	2	0	21.09	22.00	
37901	38099	QPSK	1	49	50	0	2	0	21.19	22.00	
38150	37952	QPSK	50	0	1	49	2	0	21.15	22.00	



Ant 0 Full Power		DS1&2										
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
40240	40438	QPSK	1	99	1	0	2	0	24.07	25.50		
40500	40698	QPSK	1	99	1	0	2	0	24.06	25.50		
40770	40968	QPSK	1	99	1	0	2	0	24.15	25.50		
41090	40892	QPSK	1	99	1	0	2	0	24.15	25.50		
40240	40438	QPSK	1	49	50	0	2	0	23.11	24.50		
40500	40698	QPSK	1	49	50	0	2	0	23.28	24.50		
40770	40968	QPSK	1	49	50	0	2	0	23.26	24.50		
41090	40892	QPSK	1	49	50	0	2	0	23.20	24.50		

Ant 5 Full Power		DS12										
CA_42C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
42190	42388	QPSK	1	99	1	0	2	0	24.19	25.50		
42590	42788	QPSK	1	99	1	0	2	0	24.38	25.50		
42990	42792	QPSK	1	0	1	99	2	0	24.3	25.50		
42190	42388	QPSK	1	49	50	0	2	0	23.16	24.50		
42590	42788	QPSK	1	49	50	0	2	0	23.25	24.50		
42990	42792	QPSK	50	0	1	49	2	0	23.33	24.50		

Ant 4 Full Power		DS12										
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
40240	40438	QPSK	1	99	1	0	2	0	22.70	23.50		
40500	40698	QPSK	1	99	1	0	2	0	22.88	23.50		
40770	40968	QPSK	1	99	1	0	2	0	22.76	23.50		
41090	40892	QPSK	1	99	1	0	2	0	22.79	23.50		
40240	40438	QPSK	1	49	50	0	2	0	21.75	22.50		
40500	40698	QPSK	1	49	50	0	2	0	21.75	22.50		
40770	40968	QPSK	1	49	50	0	2	0	21.84	22.50		
41090	40892	QPSK	1	49	50	0	2	0	21.81	22.50		

Ant 5 Down Power		DS11										
CA_42C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
42190	42388	QPSK	1	99	1	0	2	0	20.10	21.50		
42590	42788	QPSK	1	99	1	0	2	0	20.16	21.50		
42990	42792	QPSK	1	0	1	99	2	0	20.05	21.50		
42190	42388	QPSK	1	49	50	0	2	0	20.00	21.50		
42590	42788	QPSK	1	49	50	0	2	0	20.13	21.50		
42990	42792	QPSK	50	0	1	49	2	0	20.08	21.50		

Ant 0 Down Power		DS14										
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
40240	40438	QPSK	1	99	1	0	2	0	21.62	23.00		
40500	40698	QPSK	1	99	1	0	2	0	21.63	23.00		
40770	40968	QPSK	1	99	1	0	2	0	21.64	23.00		
41090	40892	QPSK	1	99	1	0	2	0	21.47	23.00		
40240	40438	QPSK	1	49	50	0	2	0	21.48	23.00		
40500	40698	QPSK	1	49	50	0	2	0	21.40	23.00		
40770	40968	QPSK	1	49	50	0	2	0	21.39	23.00		
41090	40892	QPSK	1	49	50	0	2	0	21.44	23.00		

Ant 5 Down Power		DS14										
CA_42C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
42190	42388	QPSK	1	99	1	0	2	0	21.38	22.50		
42590	42788	QPSK	1	99	1	0	2	0	21.42	22.50		
42990	42792	QPSK	1	0	1	99	2	0	21.4	22.50		
42190	42388	QPSK	1	49	50	0	2	0	21.16	22.50		
42590	42788	QPSK	1	49	50	0	2	0	21.25	22.50		
42990	42792	QPSK	50	0	1	49	2	0	21.33	22.50		

Ant 4 Down Power		DS11										
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
40240	40438	QPSK	1	99	1	0	2	0	20.76	21.50		
40500	40698	QPSK	1	99	1	0	2	0	20.78	21.50		
40770	40968	QPSK	1	99	1	0	2	0	20.84	21.50		
41090	40892	QPSK	1	99	1	0	2	0	20.90	21.50		
40240	40438	QPSK	1	49	50	0	2	0	20.83	21.50		
40500	40698	QPSK	1	49	50	0	2	0	20.72	21.50		
40770	40968	QPSK	1	49	50	0	2	0	20.89	21.50		
41090	40892	QPSK	1	49	50	0	2	0	20.84	21.50		

Ant 4 Down Power		DS14										
CA_41C												
Combination 20MHz+20MHz (1RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		total RB Size	MPR Level	Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset					RB Size	RB offset
40240	40438	QPSK	1	99	1	0	2	0	21.55	22.00		
40500	40698	QPSK	1	99	1	0	2	0	21.41	22.00		
40770	40968	QPSK	1	99	1	0	2	0	21.44	22.00		
41090	40892	QPSK	1	99	1	0	2	0	21.41	22.00		
40240	40438	QPSK	1	49	50	0	2	0	20.63	22.00		
40500	40698	QPSK	1	49	50	0	2	0	20.67	22.00		
40770	40968	QPSK	1	49	50	0	2	0	20.58	22.00		
41090	40892	QPSK	1	49	50	0	2	0	20.57	22.00		



DL CA Power

2CA DL

CA List	4*4MIMO	PCC								SCC				Power		
		LTE	BW	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA	
		Band	Ant	(MHz)	Channel	RB		RB	Band	(MHz)	Channel	Tx Power	Tx Power			
				(MHz)			Offset				(dBm)	(dBm)				
CA_2C		Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	23.17	23.31	
		Band 2	Ant4	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	22.33	22.53	
CA_7A_42A		Band 42	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	24.20	24.39
		Band 42	Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	22.51	22.67
CA_38C		Band 42	Band 42	Ant5	20M	3575	43340	QPSK	1	0	Band 7	20M	2655	3100	24.28	24.45
		Band 38	Ant0	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	23.96	24.13	
CA_5A_41A		Band 38	Ant4	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	22.69	22.85	
		Band 41	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2608	40770	24.16	24.35
CA_5A_41A		Band 41	Band 5	Ant4	10M	836.5	20525	QPSK	1	0	Band 41	20M	2608	40770	24.25	24.41
		Band 41	Band 41	Ant0	20M	2608	40770	QPSK	1	0	Band 5	10M	881.5	2525	23.98	24.17
CA_41A_42A		Band 41	Band 41	Ant4	20M	2608	40770	QPSK	1	0	Band 5	10M	881.5	2525	22.73	22.89
		Band 41/42	Band 41	Ant0	20M	2608	40770	QPSK	1	0	Band 42	20M	3575	43340	24.00	24.17
CA_41A_42A		Band 41/42	Band 41	Ant4	20M	2608	40770	QPSK	1	0	Band 42	20M	3575	43340	22.74	22.89
		Band 41/42	Band 42	Ant5	20M	3575	43340	QPSK	1	0	Band 41	20M	2608	40770	24.32	24.45
CA_7A_26A		Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	24.22	24.39	
		Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.47	22.67	
CA_7A_26A		Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	24.27	24.44	
		Band 26	Ant4	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	24.28	24.48	
CA_4A-17A		Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.51	23.67	
		Band 4	Ant4	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.32	23.46	
CA_4A-17A		Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	24.54	24.68	
		Band 17	Ant4	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	24.60	24.74	
CA_4A-5A		Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.53	23.67	
		Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.28	23.46	
CA_4A-5A		Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	24.15	24.35	
		Band 5	Ant4	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	24.21	24.41	
CA_4A-7A		Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	23.51	23.67	
		Band 4	Ant4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	23.30	23.46	
CA_4A-7A		Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	24.23	24.39	
		Band 7	Ant4	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	22.54	22.67	



3CA DL

3CA List	4*4MIMO	PCC						SCC1				SCC2				Power	
		LTE	BW	BW	UL	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA	
		Band	Ant	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power	
					(MHz)			(MHz)	(MHz)				(MHz)	(MHz)		(dBm)	(dBm)
CA_2A_4A_12A		Band 2	Ant0	20M	1880	18900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.11	23.31	
		Band 2	Ant4	20M	1880	18900	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	22.38	22.53	
		Band 4	Ant0	20M	1732.5	20175	Band 2	20M	1960	900	Band 12	10M	737.5	5095	23.46	23.67	
		Band 4	Ant4	20M	1732.5	20175	Band 2	20M	1960	900	Band 12	10M	737.5	5095	23.27	23.46	
		Band 12	Ant0	10M	707.5	23095	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.54	24.69	
CA_2A_4A_5A		Band 2	Ant0	20M	1880	18900	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.11	23.31	
		Band 2	Ant4	20M	1880	18900	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.33	22.53	
		Band 4	Ant0	20M	1732.5	20175	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.52	23.67	
		Band 4	Ant4	20M	1732.5	20175	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.31	23.46	
		Band 5	Ant0	10M	836.5	20525	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	24.19	24.38	
CA_2A_7A_7A		Band 2	Ant0	20M	1880	18900	Band 7	20M	2655	3100	Band 4	20M	2132.5	2175	24.28	24.41	
		Band 2	Ant4	20M	1880	18900	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.17	23.31	
		Band 7	Ant0	20M	2535	21100	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.23	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.51	22.67	
		Band 7	Ant0	20M	2535	21100	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	24.20	24.39	
CA_2A_7C		Band 7	Ant4	20M	2535	21100	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.52	22.67	
		Band 2	Ant0	20M	1880	18900	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.16	23.31	
		Band 2	Ant4	20M	1880	18900	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.35	22.53	
		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.19	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.50	22.67	
CA_5A_7A_7A		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	24.23	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.49	22.67	
		Band 5	Ant0	10M	836.5	20525	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.18	24.35	
		Band 5	Ant4	10M	836.5	20525	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.21	24.41	
		Band 7	Ant0	20M	2535	21100	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.23	24.39	
CA_5A_7C		Band 7	Ant4	20M	2535	21100	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	22.51	22.67	
		Band 7	Ant0	20M	2535	21100	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	24.23	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	22.47	22.67	
		Band 5	Ant0	10M	836.5	20525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.22	24.35	
		Band 5	Ant4	10M	836.5	20525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.22	24.41	
CA_4A_7C		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.19	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.49	22.67	
		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	24.24	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.51	22.67	
		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	22.51	22.67	
CA_41A_41A_41A		Band 41	Ant0	20M	2608	40770	Band 41	5M	2647.5	41165	Band 41	20M	2555	40240	24.01	24.17	
		Band 41	Ant4	20M	2608	40770	Band 41	5M	2647.5	41165	Band 41	20M	2555	40240	22.69	22.89	
		Band 41	Ant0	20M	2608	40770	Band 41	5M	2647.5	41165	Band 41	20M	2555	40240	23.99	24.17	
		Band 41	Ant4	20M	2608	40770	Band 41	5M	2647.5	41165	Band 41	20M	2555	40240	22.73	22.89	
		Band 4	Ant0	20M	1732.5	20175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.50	23.67	
CA_4A_7C		Band 4	Ant4	20M	1732.5	20175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.30	23.46	
		Band 4	Ant0	20M	1732.5	20175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.52	23.67	
		Band 4	Ant4	20M	1732.5	20175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.29	23.46	
		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.20	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.54	22.67	
CA_41D		Band 7	Ant0	20M	2535	21100	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	24.19	24.39	
		Band 7	Ant4	20M	2535	21100	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.46	22.67	
		Band 41	Ant0	20M	2608	40770	Band 41	20M	2627.8	40968	Band 41	20M	2647.6	41166	24.03	24.17	
		Band 41	Ant4	20M	2608	40770	Band 41	20M	2627.8	40968	Band 41	20M	2647.6	41166	22.74	22.89	
		Band 41/42	Ant0	20M	2608	40770	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	23.96	24.17	
CA_41A_42C		Band 41/42	Ant4	20M	2608	40770	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.72	22.89	
		Band 41/42	Ant0	20M	2608	40770	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	24.01	24.17	
		Band 41/42	Ant4	20M	2608	40770	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.70	22.89	
		Band 41/42	Ant0	20M	2608	40770	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	24.27	24.45	
		Band 41/42	Ant4	20M	2608	40770	Band 42	20M	3575	43340	Band 41	20M	2608	40770	24.25	24.45	
CA_41C_42A		Band 41/42	Ant0	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	23.97	24.17	
		Band 41/42	Ant4	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	22.75	22.89	
		Band 41/42	Ant0	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	24.03	24.17	
		Band 41/42	Ant4	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	22.76	22.89	
		Band 41/42	Ant0	20M	2608	40770	Band 41	20M	2608	40770	Band 41	20M	2627.8	40968	24.29	24.45	
	Band 41/42	Ant4	20M	2608	40770	Band 41	20M	2608	40770	Band 41	20M	2627.8	40968	24.24	24.45		



4CA DL

Configure	4*4MIMO	PCC				SCC1				SCC2				SCC3				Power		
		LTE	BW	BW	UL	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	Ant	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_41C-42C	Band 41/42	Band 41	Ant0	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	24.02	24.17
	Band 41/42	Band 41	Ant4	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.75	22.89
	Band 41/42	Band 41	Ant0	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	24.03	24.17
	Band 41/42	Band 41	Ant4	20M	2608	40770	Band 41	20M	2627.8	40968	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.70	22.89
	Band 41/42	Band 42	Ant5	20M	3575	43340	Band 42	20M	3594.8	43538	Band 41	20M	2608	40770	Band 41	20M	2627.8	40968	24.26	24.45
Band 41/42	Band 42	Ant5	20M	3575	43340	Band 42	20M	3594.8	43538	Band 41	20M	2608	40770	Band 41	20M	2627.8	40968	24.30	24.45	



Full Power level/Default Power level for 5G NR

Par270 n77 ANT3 Default DFT-30									
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				650000	656000	662000			
Frequency (MHz)				3760	3840	3930			
100	PI/2 BPSK	1	1	25.24	25.28	25.38			
100	PI/2 BPSK	1	137	25.30	25.39	25.34	25.5	0.0	
100	PI/2 BPSK	1	271	25.33	25.31	25.41			
100	PI/2 BPSK	135	0	25.33	25.31	25.19	25.5	0.0	
100	PI/2 BPSK	135	69	25.38	25.35	25.28	25.5	0.0	
100	PI/2 BPSK	135	138	25.19	25.31	25.40			
100	PI/2 BPSK	270	0	25.30	25.38	25.40	25.5	0.0	
100	QPSK	1	1	25.35	25.43	25.41			
100	QPSK	1	137	25.34	25.40	25.36	25.5	0.0	
100	QPSK	1	271	25.23	25.26	25.19			
100	QPSK	135	0	25.33	25.24	25.17	25.5	0.0	
100	QPSK	135	69	25.35	25.37	25.34	25.5	0.0	
100	QPSK	135	138	25.30	25.33	25.29			
100	QPSK	270	0	25.32	25.35	25.23	25.5	0.0	
100	16QAM	1	1	25.32	25.34	25.34	25.5	0.0	
100	64QAM	1	1	24.27	24.33	24.36	24.5	1.0	
100	256QAM	1	1	22.58	22.47	22.38	22.5	3.0	
Channel				649334	656000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.15	25.37	25.19	25.5	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.11	25.22	25.04	25.5	0.0	
Channel				648334	656000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.11	25.28	25.17	25.5	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	25.20	25.26	25.03	25.5	0.0	
Channel				647668	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	25.10	25.39	25.18	25.5	0.0	
Channel				647334	656000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	25.28	25.41	25.18	25.5	0.0	

Part27Q n77 ANT3 Default DFT-30									
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				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
100	PI/2 BPSK	1	1		25.04				
100	PI/2 BPSK	1	137		25.17		25.5	0.0	
100	PI/2 BPSK	1	271		25.06				
100	PI/2 BPSK	135	0		24.63		25.5	0.0	
100	PI/2 BPSK	135	69		25.09		25.5	0.0	
100	PI/2 BPSK	135	138		24.67				
100	PI/2 BPSK	270	0		24.56		25.5	0.0	
100	QPSK	1	1		25.38				
100	QPSK	1	137		25.12		25.5	0.0	
100	QPSK	1	271		25.30				
100	QPSK	135	0		24.08		25.5	0.0	
100	QPSK	135	69		25.11		25.5	0.0	
100	QPSK	135	138		24.20				
100	QPSK	270	0		24.08		25.5	0.0	
100	16QAM	1	1		25.34		25.5	0.0	
100	64QAM	1	1		22.78		24.5	1.0	
100	256QAM	1	1		21.49		22.5	3.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480.02	3500.01	3520.02			
80	QPSK	1	109		25.27		25.5	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
60	QPSK	1	81		25.23		25.5	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3470.01	3500.01	3530.01			
50	QPSK	1	67		25.14		25.5	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3465	3500.01	3535.02			
40	QPSK	1	53		25.24		25.5	0.0	
Channel				630000	633334	636668			
Frequency (MHz)				3460.02	3500.01	3540			
30	QPSK	1	39		25.12		25.5	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26		25.24		25.5	0.0	



Part270 n78 ANT3 Default								
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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	25.17			25.5	0.0
100	PI/2 BPSK	1	137	25.29				
100	PI/2 BPSK	1	271	25.22				
100	PI/2 BPSK	135	0	25.09			25.5	0.0
100	PI/2 BPSK	135	69	25.14			25.5	0.0
100	PI/2 BPSK	135	138	25.15			25.5	0.0
100	PI/2 BPSK	270	0	25.09				
100	QPSK	1	1	25.34			25.5	0.0
100	QPSK	1	137	25.16				
100	QPSK	1	271	25.10				
100	QPSK	135	0	25.12			25.5	0.0
100	QPSK	135	69	25.20			25.5	0.0
100	QPSK	135	138	25.10			25.5	0.0
100	QPSK	270	0	25.07				
100	16QAM	1	1	25.28			25.5	0.0
100	64QAM	1	1	24.26			24.5	1.0
100	256QAM	1	1	22.29			22.5	3.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	24.96	24.88	24.88	25.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3770.01		
60	QPSK	1	1	24.89	24.89	24.96	25.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	25.01	25.03	24.86	25.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3760		
40	QPSK	1	1	24.86	25.11	24.97	25.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3785.01		
30	QPSK	1	1	24.97	24.89	24.79	25.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	24.98	25.06	24.88	25.5	0.0

Part27Q 78 ANT3 Default								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	25.21			25.5	0.0
100	PI/2 BPSK	1	137	25.27				
100	PI/2 BPSK	1	271	25.17				
100	PI/2 BPSK	135	0	24.67			25.5	0.0
100	PI/2 BPSK	135	69	25.11			25.5	0.0
100	PI/2 BPSK	135	138	24.59			25.5	0.0
100	PI/2 BPSK	270	0	24.66				
100	QPSK	1	1	25.30			25.5	0.0
100	QPSK	1	137	25.20				
100	QPSK	1	271	25.24				
100	QPSK	135	0	25.13			25.5	0.0
100	QPSK	135	69	25.28			25.5	0.0
100	QPSK	135	138	25.19			25.5	0.0
100	QPSK	270	0	24.21				
100	16QAM	1	1	24.41			25.5	0.0
100	64QAM	1	1	22.88			24.5	1.0
100	256QAM	1	1	20.56			22.5	3.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	109	25.26	25.29	25.19	25.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	81	25.13	25.26	25.14	25.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	67	25.12	25.16	25.08	25.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	53	25.19	25.12	25.17	25.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	39	25.15	25.10	25.03	25.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	26	25.16	25.20	25.05	25.5	0.0



Par270 n77 ANT5 Default DFT-30									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	24.00	24.02	24.06			
100	PI/2 BPSK	1	137	24.18	24.24	24.17	25.5	0.0	
100	PI/2 BPSK	1	271	24.15	24.20	24.17			
100	PI/2 BPSK	135	0	24.14	24.08	23.97	25.5	0.0	
100	PI/2 BPSK	135	69	24.12	24.17	24.23	25.5	0.0	
100	PI/2 BPSK	135	138	24.05	24.13	24.05	25.5	0.0	
100	PI/2 BPSK	270	0	23.95	24.07	23.98			
100	QPSK	1	1	24.13	24.25	24.20			
100	QPSK	1	137	24.21	24.21	24.16	25.5	0.0	
100	QPSK	1	271	24.14	24.23	24.22			
100	QPSK	135	0	23.95	24.02	24.06	25.5	0.0	
100	QPSK	135	69	24.07	24.17	24.10	25.5	0.0	
100	QPSK	135	138	24.14	24.15	24.06	25.5	0.0	
100	QPSK	270	0	24.06	24.09	24.06			
100	16QAM	1	1	24.22	24.17	24.21	25.5	0.0	
100	64QAM	1	1	23.43	23.32	23.43	24.5	1.0	
100	256QAM	1	1	21.09	21.07	21.00	22.5	3.0	
Channel				643334	650000	656668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	25.5	0.0	
80	QPSK	1	1	24.10	24.05	24.00			
Channel				648868	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.92	24.14	23.99	25.5	0.0	
Channel				643334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.94	24.19	24.10	25.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.85	24.11	24.10	25.5	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	24.14	24.17	24.02	25.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.90	24.24	24.08	25.5	0.0	

Part27Q n77 ANT5 Default DFT-30									
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				633334					
Frequency (MHz)				3900.01					
100	PI/2 BPSK	1	1			23.63			
100	PI/2 BPSK	1	137			23.61	25.5	0.0	
100	PI/2 BPSK	1	271			23.81			
100	PI/2 BPSK	135	0			23.09	25.5	0.0	
100	PI/2 BPSK	135	69			23.77	25.5	0.0	
100	PI/2 BPSK	135	138			23.25	25.5	0.0	
100	PI/2 BPSK	270	0			23.23			
100	QPSK	1	1			23.94			
100	QPSK	1	137			23.74	25.5	0.0	
100	QPSK	1	271			23.68			
100	QPSK	135	0			23.26	24.5	1.0	
100	QPSK	135	69			23.82	25.5	0.0	
100	QPSK	135	138			23.21	24.5	1.0	
100	QPSK	270	0			23.27			
100	16QAM	1	1			23.22	25.5	0.0	
100	64QAM	1	1			23.15	24.5	1.0	
100	256QAM	1	1			21.03	22.5	3.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	25.5	0.0	
80	QPSK	1	109			23.72	23.60	23.60	25.5
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81			23.60	23.70	23.71	25.5
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67			23.60	23.67	23.69	25.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53			23.70	23.72	23.80	25.5
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39			23.70	23.67	23.54	25.5
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26			23.68	23.65	23.60	25.5



Part270 n78 ANT5 Default DFT-30								
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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	24.05			25.5	0.0
100	PI/2 BPSK	1	137	24.11				
100	PI/2 BPSK	1	271	24.17				
100	PI/2 BPSK	135	0	24.07			25.5	0.0
100	PI/2 BPSK	135	69	24.05			25.5	0.0
100	PI/2 BPSK	135	138	23.98			25.5	0.0
100	PI/2 BPSK	270	0	24.11				
100	QPSK	1	1	24.20			25.5	0.0
100	QPSK	1	137	24.13				
100	QPSK	1	271	24.10				
100	QPSK	135	0	24.08			25.5	0.0
100	QPSK	135	69	24.12			25.5	0.0
100	QPSK	135	138	24.11			25.5	0.0
100	QPSK	270	0	24.05				
100	16QAM	1	1	23.99			25.5	0.0
100	64QAM	1	1	23.28			24.5	1.0
100	256QAM	1	1	21.04			22.5	3.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	24.12	24.05	24.10	25.5	0.0
Channel				646688	650000	651334	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)
60	QPSK	1	1	24.10	24.07	24.16	25.5	0.0
Channel				646334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)
50	QPSK	1	1	24.10	24.15	24.15	25.5	0.0
Channel				646000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	24.15	24.02	24.14	25.5	0.0
Channel				647688	650000	652334	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)
30	QPSK	1	1	24.04	24.16	24.05	25.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	24.14	24.08	24.12	25.5	0.0

Part27Q 78 ANT5 Default DFT-30								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	23.56			25.5	0.0
100	PI/2 BPSK	1	137	23.73				
100	PI/2 BPSK	1	271	23.74				
100	PI/2 BPSK	135	0	23.72			25.5	0.0
100	PI/2 BPSK	135	69	23.57			25.5	0.0
100	PI/2 BPSK	135	138	23.57			25.5	0.0
100	PI/2 BPSK	270	0	23.67				
100	QPSK	1	1	23.61			25.5	0.0
100	QPSK	1	137	23.80				
100	QPSK	1	271	23.64				
100	QPSK	135	0	23.59			25.5	0.0
100	QPSK	135	69	23.72			25.5	0.0
100	QPSK	135	138	23.68			25.5	0.0
100	QPSK	270	0	23.64				
100	16QAM	1	1	23.50			25.5	0.0
100	64QAM	1	1	22.95			24.5	1.0
100	256QAM	1	1	20.72			22.5	3.0
Channel				632688	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	109	25.12	25.25	25.15	25.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)
60	QPSK	1	81	25.12	25.12	25.19	25.5	0.0
Channel				631688	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	67	25.25	25.13	25.17	25.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	53	25.18	25.13	25.08	25.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)
30	QPSK	1	39	25.10	25.11	25.10	25.5	0.0
Channel				630688	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	26	25.21	25.10	25.09	25.5	0.0



Reduced power level for 5G NR

Par270 n77 Ant3 DS11 DFT-30									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	16.70	16.69	16.69			
100	PI/2 BPSK	1	137	16.70	16.60	16.75	17.0	0.0	
100	PI/2 BPSK	1	271	16.73	16.66	16.72			
100	PI/2 BPSK	135	0	16.67	16.67	16.82	17.0	0.0	
100	PI/2 BPSK	135	69	16.51	16.71	16.62	17.0	0.0	
100	PI/2 BPSK	135	138	16.78	16.62	16.63			
100	PI/2 BPSK	270	0	16.51	16.49	16.37	17.0	0.0	
100	QPSK	1	1	16.82	16.87	16.64			
100	QPSK	1	137	16.68	16.60	16.80	17.0	0.0	
100	QPSK	1	271	16.49	16.49	16.55			
100	QPSK	135	0	16.68	16.65	16.70	17.0	0.0	
100	QPSK	135	69	16.62	16.75	16.55	17.0	0.0	
100	QPSK	135	138	16.49	16.51	16.47	17.0	0.0	
100	QPSK	270	0	16.32	16.37	16.24			
100	16QAM	1	1	16.52	16.35	16.39	17.0	0.0	
100	64QAM	1	1	16.61	16.67	16.63	17.0	0.0	
100	256QAM	1	1	16.58	16.42	16.74	17.0	0.0	
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	16.55	16.65	16.29	17.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	16.72	16.74	16.79	17.0	0.0	
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	16.72	16.58	16.49	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	16.69	16.77	16.60	17.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	16.39	16.74	16.50	17.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.59	16.64	16.35	17.0	0.0	

PC2&3 Par27Q n77 Ant3 DS11 DFT-30									
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				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
100	PI/2 BPSK	1	1	16.88					
100	PI/2 BPSK	1	137	16.69			17.0	0.0	
100	PI/2 BPSK	1	271	16.76					
100	PI/2 BPSK	135	0	16.84					
100	PI/2 BPSK	135	69	16.92			17.0	0.0	
100	PI/2 BPSK	135	138	16.76					
100	PI/2 BPSK	270	0	16.63			17.0	0.0	
100	QPSK	1	1	16.97					
100	QPSK	1	137	16.65			17.0	0.0	
100	QPSK	1	271	16.52					
100	QPSK	135	0	16.81					
100	QPSK	135	69	16.88			17.0	0.0	
100	QPSK	135	138	16.72					
100	QPSK	270	0	16.40			17.0	0.0	
100	16QAM	1	1	16.48			17.0	0.0	
100	64QAM	1	1	16.76			17.0	0.0	
100	256QAM	1	1	16.48			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	16.51	16.50	16.24	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	16.86	16.96	16.52	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	16.56	16.66	16.22	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	16.49	16.64	16.20	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	16.37	16.50	16.20	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	16.40	16.43	16.10	17.0	0.0	



PC2&3 Par270 n78 Ant3 DSH DFT-30									
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				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	16.71					
100	PI/2 BPSK	1	137	16.75			17.0	0.0	
100	PI/2 BPSK	1	271	16.70					
100	PI/2 BPSK	135	0	16.77			17.0	0.0	
100	PI/2 BPSK	135	69	16.72			17.0	0.0	
100	PI/2 BPSK	135	138	16.69					
100	PI/2 BPSK	270	0	16.71			17.0	0.0	
100	QPSK	1	1	16.79					
100	QPSK	1	137	16.63			17.0	0.0	
100	QPSK	1	271	16.66					
100	QPSK	135	0	16.76			17.0	0.0	
100	QPSK	135	69	16.79			17.0	0.0	
100	QPSK	135	138	16.65					
100	QPSK	270	0	16.71			17.0	0.0	
100	16QAM	1	1	16.24			17.0	0.0	
100	64QAM	1	1	16.68			17.0	0.0	
100	256QAM	1	1	16.41			17.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.40	16.64	16.57	17.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.46	16.61	16.48	17.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.36	16.65	16.64	17.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3760			
40	QPSK	1	1	16.37	16.72	16.53	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.48	16.68	16.61	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.45	16.62	16.65	17.0	0.0	

PC2&3 Par270Q n78 Ant3 DSH DFT-30									
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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	16.66					
100	PI/2 BPSK	1	137	16.67			17.0	0.0	
100	PI/2 BPSK	1	271	16.50					
100	PI/2 BPSK	135	0	16.64					
100	PI/2 BPSK	135	69	16.67			17.0	0.0	
100	PI/2 BPSK	135	138	16.65					
100	PI/2 BPSK	270	0	16.53			17.0	0.0	
100	QPSK	1	1	16.76					
100	QPSK	1	137	16.62			17.0	0.0	
100	QPSK	1	271	16.49					
100	QPSK	135	0	16.55					
100	QPSK	135	69	16.67			17.0	0.0	
100	QPSK	135	138	16.47					
100	QPSK	270	0	16.55			17.0	0.0	
100	16QAM	1	1	16.03			17.0	0.0	
100	64QAM	1	1	16.51			17.0	0.0	
100	256QAM	1	1	16.39			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	16.55	16.75	16.45	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	16.50	16.69	16.46	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	16.57	16.67	16.59	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	16.40	16.63	16.51	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	16.55	16.69	16.44	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	16.44	16.68	16.45	17.0	0.0	



Par270 n77 Ant5 DS1 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	656000	662000			
100	PI/2 BPSK	1	1	15.76	15.75	15.68			
100	PI/2 BPSK	1	137	15.69	15.67	15.81	17.0	0.0	
100	PI/2 BPSK	1	271	15.77	15.75	15.74			
100	PI/2 BPSK	135	0	15.62	15.59	15.74	17.0	0.0	
100	PI/2 BPSK	135	69	15.80	15.77	15.70	17.0	0.0	
100	PI/2 BPSK	135	138	15.58	15.69	15.62	17.0	0.0	
100	PI/2 BPSK	270	0	15.51	15.56	15.42			
100	QPSK	1	1	15.90	15.95	15.61			
100	QPSK	1	137	15.76	15.72	15.70	17.0	0.0	
100	QPSK	1	271	15.52	15.45	15.52			
100	QPSK	135	0	15.67	15.74	15.75	17.0	0.0	
100	QPSK	135	69	15.60	15.66	15.77	17.0	0.0	
100	QPSK	135	138	15.40	15.60	15.58	17.0	0.0	
100	QPSK	270	0	15.52	15.57	15.52			
100	16QAM	1	1	15.55	15.47	15.49	17.0	0.0	
100	64QAM	1	1	15.61	15.79	15.75	17.0	0.0	
100	256QAM	1	1	15.50	15.52	15.74	17.0	0.0	
Channel				648334	656000	662688			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.78	15.80	15.55	17.0	0.0	
Channel				648688	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.80	15.83	15.67	17.0	0.0	
Channel				648334	656000	663688			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.71	15.67	15.57	17.0	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3950			
40	QPSK	1	1	15.58	15.48	15.53	17.0	0.0	
Channel				647888	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.40	15.39	15.62	17.0	0.0	
Channel				647334	656000	664688			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	15.48	15.56	15.43	17.0	0.0	

PC2&3 Par27Q n77 Ant5 DS1 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334					
100	PI/2 BPSK	1	1	15.74					
100	PI/2 BPSK	1	137	15.57			17.0	0.0	
100	PI/2 BPSK	1	271	15.67					
100	PI/2 BPSK	135	0	15.55					
100	PI/2 BPSK	135	69	15.74			17.0	0.0	
100	PI/2 BPSK	135	138	15.59					
100	PI/2 BPSK	270	0	15.47			17.0	0.0	
100	QPSK	1	1	15.90					
100	QPSK	1	137	15.65			17.0	0.0	
100	QPSK	1	271	15.36					
100	QPSK	135	0	15.68					
100	QPSK	135	69	15.67			17.0	0.0	
100	QPSK	135	138	15.59					
100	QPSK	270	0	15.63			17.0	0.0	
100	16QAM	1	1	15.44			17.0	0.0	
100	64QAM	1	1	15.72			17.0	0.0	
100	256QAM	1	1	15.42			17.0	0.0	
Channel				632688	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	15.49	15.59	15.48	17.0	0.0	
Channel				632000	633334	634688			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	15.54	15.60	15.42	17.0	0.0	
Channel				631688	633334	636000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	15.50	15.64	15.43	17.0	0.0	
Channel				631334	633334	636334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	15.63	15.59	15.35	17.0	0.0	
Channel				631000	633334	636688			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	15.71	15.52	15.47	17.0	0.0	
Channel				630688	633334	636900			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	15.62	15.55	15.41	17.0	0.0	



PC2&3 Par270 n78 Ant5 DS11 DFT-30								
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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	15.57			17.0	0.0
100	PI/2 BPSK	1	137	15.44				
100	PI/2 BPSK	1	271	15.58				
100	PI/2 BPSK	135	0	15.57				
100	PI/2 BPSK	135	69	15.58				
100	PI/2 BPSK	135	138	15.60				
100	PI/2 BPSK	270	0	15.48				
100	QPSK	1	1	15.65				
100	QPSK	1	137	15.54				
100	QPSK	1	271	15.57				
100	QPSK	135	0	15.60				
100	QPSK	135	69	15.62				
100	QPSK	135	138	15.55				
100	QPSK	270	0	15.45				
100	16QAM	1	1	15.09			17.0	0.0
100	64QAM	1	1	15.37			17.0	0.0
100	256QAM	1	1	15.21			17.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.35	15.54	15.23	17.0	0.0
Channel				646668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.27	15.57	15.35	17.0	0.0
Channel				646334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.25	15.30	15.14	17.0	0.0
Channel				646000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.24	15.51	15.33	17.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.18	15.54	15.32	17.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.23	15.51	15.24	17.0	0.0

PC2&3 Par27Q n78 Ant5 DS11 DFT-30								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	15.42			17.0	0.0
100	PI/2 BPSK	1	137	15.27				
100	PI/2 BPSK	1	271	15.59				
100	PI/2 BPSK	135	0	15.55				
100	PI/2 BPSK	135	69	15.50				
100	PI/2 BPSK	135	138	15.49				
100	PI/2 BPSK	270	0	15.41				
100	QPSK	1	1	15.61				
100	QPSK	1	137	15.44				
100	QPSK	1	271	15.50				
100	QPSK	135	0	15.41				
100	QPSK	135	69	15.56				
100	QPSK	135	138	15.44				
100	QPSK	270	0	15.41				
100	16QAM	1	1	15.04			17.0	0.0
100	64QAM	1	1	15.36			17.0	0.0
100	256QAM	1	1	15.06			17.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	15.22	15.45	15.21	17.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	15.33	15.47	15.18	17.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	15.18	15.49	15.25	17.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	15.15	15.38	15.33	17.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	15.35	15.40	15.38	17.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	15.24	15.52	15.21	17.0	0.0



Par27O n77 Ant3 DS12 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	16.70	16.69	16.69	17.0	0.0	
100	PI/2 BPSK	1	137	16.70	16.60	16.75			
100	PI/2 BPSK	1	271	16.73	16.66	16.72			
100	PI/2 BPSK	135	0	16.67	16.67	16.82			
100	PI/2 BPSK	135	69	16.51	16.71	16.62			
100	PI/2 BPSK	135	138	16.78	16.62	16.63			
100	PI/2 BPSK	270	0	16.51	16.49	16.37			
100	QPSK	1	1	16.82	16.67	16.64			
100	QPSK	1	137	16.68	16.60	16.80			
100	QPSK	1	271	16.49	16.49	16.55			
100	QPSK	135	0	16.68	16.65	16.70	17.0	0.0	
100	QPSK	135	69	16.62	16.75	16.55	17.0	0.0	
100	QPSK	135	138	16.49	16.51	16.47	17.0	0.0	
100	QPSK	270	0	16.32	16.37	16.24	17.0	0.0	
100	16QAM	1	1	16.52	16.35	16.39	17.0	0.0	
100	64QAM	1	1	16.61	16.67	16.63	17.0	0.0	
100	256QAM	1	1	16.53	16.42	16.74	17.0	0.0	
Channel				643334	656000	662688	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3940.02	(dBm)	(dB)	
80	QPSK	1	1	16.55	16.65	16.24	17.0	0.0	
Channel				648968	656000	663334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3950.01	(dBm)	(dB)	
60	QPSK	1	1	16.83	16.63	16.52	17.0	0.0	
Channel				643334	656000	663688	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3955.02	(dBm)	(dB)	
50	QPSK	1	1	16.72	16.53	16.40	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	16.67	16.55	16.60	17.0	0.0	
Channel				647688	656000	664334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840	3965.01	(dBm)	(dB)	
30	QPSK	1	1	16.39	16.74	16.50	17.0	0.0	
Channel				647334	656000	664688	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	16.59	16.84	16.35	17.0	0.0	

Par27Q n77 Ant3 DS12 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1		16.88		17.0	0.0	
100	PI/2 BPSK	1	137		16.69				
100	PI/2 BPSK	1	271		16.76				
100	PI/2 BPSK	135	0		16.84				
100	PI/2 BPSK	135	69		16.92				
100	PI/2 BPSK	135	138		16.76				
100	PI/2 BPSK	270	0		16.63				
100	QPSK	1	1		16.97				
100	QPSK	1	137		16.65				
100	QPSK	1	271		16.52				
100	QPSK	135	0		16.81		17.0	0.0	
100	QPSK	135	69		16.68		17.0	0.0	
100	QPSK	135	138		16.72		17.0	0.0	
100	QPSK	270	0		16.40		17.0	0.0	
100	16QAM	1	1		16.48		17.0	0.0	
100	64QAM	1	1		16.76		17.0	0.0	
100	256QAM	1	1		16.48		17.0	0.0	
Channel				632688	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.51	16.50	16.24	17.0	0.0	
Channel				632000	633334	634688	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	16.86	16.95	16.52	17.0	0.0	
Channel				631688	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	16.50	16.60	16.22	17.0	0.0	
Channel				631334	633334	636334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	16.40	16.64	16.20	17.0	0.0	
Channel				631000	633334	636688	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	16.37	16.50	16.20	17.0	0.0	
Channel				630688	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	16.40	16.43	16.10	17.0	0.0	



Par270 n78 Ant3 DSI2 DFT-30									
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				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	16.71			17.0	0.0	
100	PI/2 BPSK	1	137	16.75					
100	PI/2 BPSK	1	271	16.70					
100	PI/2 BPSK	135	0	16.77			17.0	0.0	
100	PI/2 BPSK	135	69	16.72			17.0	0.0	
100	PI/2 BPSK	135	138	16.69			17.0	0.0	
100	PI/2 BPSK	270	0	16.71					
100	QPSK	1	1	16.79					
100	QPSK	1	137	16.63			17.0	0.0	
100	QPSK	1	271	16.66					
100	QPSK	135	0	16.76					
100	QPSK	135	69	16.79			17.0	0.0	
100	QPSK	135	138	16.65			17.0	0.0	
100	QPSK	270	0	16.71					
100	16QAM	1	1	16.24					
100	64QAM	1	1	16.68			17.0	0.0	
100	256QAM	1	1	16.41			17.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	16.40	16.64	16.57	17.0	0.0	
Channel				646668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	16.46	16.61	16.48	17.0	0.0	
Channel				646334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	16.30	16.65	16.64	17.0	0.0	
Channel				646000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.37	16.72	16.53	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	16.48	16.68	16.61	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	16.45	16.62	16.65	17.0	0.0	

Par27Q n78 Ant3 DSI2 DFT-30									
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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	16.66			17.0	0.0	
100	PI/2 BPSK	1	137	16.67					
100	PI/2 BPSK	1	271	16.50					
100	PI/2 BPSK	135	0	16.64			17.0	0.0	
100	PI/2 BPSK	135	69	16.67					
100	PI/2 BPSK	135	138	16.65					
100	PI/2 BPSK	270	0	16.53			17.0	0.0	
100	QPSK	1	1	16.76			17.0	0.0	
100	QPSK	1	137	16.62					
100	QPSK	1	271	16.49					
100	QPSK	135	0	16.55			17.0	0.0	
100	QPSK	135	69	16.67					
100	QPSK	135	138	16.47					
100	QPSK	270	0	16.55			17.0	0.0	
100	16QAM	1	1	16.03			17.0	0.0	
100	64QAM	1	1	16.51			17.0	0.0	
100	256QAM	1	1	16.39			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.55	16.75	16.45	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	16.50	16.69	16.46	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	16.57	16.67	16.59	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	16.40	16.63	16.51	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	16.55	16.69	16.44	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	16.44	16.68	16.45	17.0	0.0	



Par27O n77 Ant5 DS12 DFT-30									
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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.84	22.71	22.62			
100	PI/2 BPSK	1	137	22.83	22.70	22.66	24.0	0.0	
100	PI/2 BPSK	1	271	22.82	22.68	22.63			
100	PI/2 BPSK	135	0	22.83	22.58	22.54	24.0	0.0	
100	PI/2 BPSK	135	69	22.71	22.75	22.65	24.0	0.0	
100	PI/2 BPSK	135	138	22.54	22.69	22.68	24.0	0.0	
100	PI/2 BPSK	270	0	22.55	22.69	22.63			
100	QPSK	1	1	22.70	22.63	22.69			
100	QPSK	1	137	22.82	22.77	22.69	24.0	0.0	
100	QPSK	1	271	22.70	22.80	22.77			
100	QPSK	135	0	22.83	22.69	22.64	24.0	0.0	
100	QPSK	135	69	22.68	22.78	22.59	24.0	0.0	
100	QPSK	135	138	22.72	22.69	22.75	24.0	0.0	
100	QPSK	270	0	22.61	22.70	22.56			
100	16QAM	1	1	22.56	22.68	22.59	24.0	0.0	
100	64QAM	1	1	22.80	22.64	22.42	24.0	0.0	
100	256QAM	1	1	21.28	21.29	21.08	22.5	1.5	
Channel				643334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.41	22.55	22.50	24.0	0.0	
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.60	22.61	22.45	24.0	0.0	
Channel				643334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.01	3840	3955.02			
50	QPSK	1	1	22.61	22.59	22.40	24.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.53	22.59	22.40	24.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	22.43	22.55	22.50	24.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.44	22.64	22.60	24.0	0.0	

Par27Q n77 Ant5 DS12 DFT-30									
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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	22.48					
100	PI/2 BPSK	1	137	22.49			24.0	0.0	
100	PI/2 BPSK	1	271	22.34					
100	PI/2 BPSK	135	0	22.23					
100	PI/2 BPSK	135	69	22.47			24.0	0.0	
100	PI/2 BPSK	135	138	22.41			24.0	0.0	
100	PI/2 BPSK	270	0	22.38					
100	QPSK	1	1	22.61					
100	QPSK	1	137	22.43			24.0	0.0	
100	QPSK	1	271	22.56					
100	QPSK	135	0	22.45					
100	QPSK	135	69	22.57			24.0	0.0	
100	QPSK	135	138	22.40			24.0	0.0	
100	QPSK	270	0	22.35					
100	16QAM	1	1	22.46			24.0	0.0	
100	64QAM	1	1	22.29			24.0	0.0	
100	256QAM	1	1	20.88			22.5	1.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	109	22.24	22.42	22.23	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	81	22.29	22.45	22.34	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	67	22.31	22.37	22.35	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	53	22.42	22.51	22.21	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	39	22.39	22.47	22.22	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	26	22.42	22.46	22.37	24.0	0.0	



Part27O n78 ANT5 DS12 DFT-30										
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				650000						
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1	22.70			24.0	0.0		
100	PI/2 BPSK	1	137	22.66						
100	PI/2 BPSK	1	271	22.70						
100	PI/2 BPSK	135	0	22.61			24.0	0.0		
100	PI/2 BPSK	135	69	22.72			24.0	0.0		
100	PI/2 BPSK	135	138	22.63			24.0	0.0		
100	PI/2 BPSK	270	0	22.68						
100	QPSK	1	1	22.61			24.0	0.0		
100	QPSK	1	137	22.79						
100	QPSK	1	271	22.69						
100	QPSK	135	0	22.71			24.0	0.0		
100	QPSK	135	69	22.76			24.0	0.0		
100	QPSK	135	138	22.74			24.0	0.0		
100	QPSK	270	0	22.67						
100	16QAM	1	1	22.62			24.0	0.0		
100	64QAM	1	1	22.13			24.0	0.0		
100	256QAM	1	1	20.53			22.5	1.5		
Channel				649334	650000	650668	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
80	QPSK	1	1	22.71	22.63	22.61	24.0	0.0		
Channel				646668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)		
60	QPSK	1	1	22.70	22.63	22.69	24.0	0.0		
Channel				646334	650000	651668	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)		
50	QPSK	1	1	22.75	22.76	22.65	24.0	0.0		
Channel				646000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	22.67	22.61	22.76	24.0	0.0		
Channel				647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)		
30	QPSK	1	1	22.65	22.70	22.55	24.0	0.0		
Channel				647334	650000	652668	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
20	QPSK	1	1	22.74	22.60	22.81	24.0	0.0		

Par27Q n78 Ant5 DS12 DFT-30										
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				633334						
Frequency (MHz)				3500.01						
100	PI/2 BPSK	1	1	22.41			24.0	0.0		
100	PI/2 BPSK	1	137	22.41						
100	PI/2 BPSK	1	271	22.24						
100	PI/2 BPSK	135	0	22.10			24.0	0.0		
100	PI/2 BPSK	135	69	22.40						
100	PI/2 BPSK	135	138	22.30			24.0	0.0		
100	PI/2 BPSK	270	0	22.26						
100	QPSK	1	1	22.56			24.0	0.0		
100	QPSK	1	137	22.33						
100	QPSK	1	271	22.47						
100	QPSK	135	0	22.38			24.0	0.0		
100	QPSK	135	69	22.48						
100	QPSK	135	138	22.30			24.0	0.0		
100	QPSK	270	0	22.26						
100	16QAM	1	1	22.40			24.0	0.0		
100	64QAM	1	1	22.22			24.0	0.0		
100	256QAM	1	1	20.74			22.5	1.5		
Channel				632668	633334	634000	Tune-up limit	MPR		
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)		
80	QPSK	1	109	22.12	22.36	22.17	24.0	0.0		
Channel				632000	633334	634668	Tune-up limit	MPR		
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)		
60	QPSK	1	81	22.17	22.34	22.26	24.0	0.0		
Channel				631668	633334	635000	Tune-up limit	MPR		
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)		
50	QPSK	1	67	22.25	22.30	22.26	24.0	0.0		
Channel				631334	633334	635334	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)		
40	QPSK	1	53	22.35	22.43	22.07	24.0	0.0		
Channel				631000	633334	635668	Tune-up limit	MPR		
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)		
30	QPSK	1	39	22.29	22.35	22.11	24.0	0.0		
Channel				630668	633334	636000	Tune-up limit	MPR		
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)		
20	QPSK	1	26	22.27	22.38	22.32	24.0	0.0		



Par270 n77 Ant3 DS14 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	656000	662000			
100	PI/2 BPSK	1	1	16.70	16.69	16.69			
100	PI/2 BPSK	1	137	16.70	16.60	16.75	17.0	0.0	
100	PI/2 BPSK	1	271	16.73	16.66	16.72			
100	PI/2 BPSK	135	0	16.67	16.67	16.82	17.0	0.0	
100	PI/2 BPSK	135	69	16.51	16.71	16.62	17.0	0.0	
100	PI/2 BPSK	135	138	16.78	16.62	16.63	17.0	0.0	
100	PI/2 BPSK	270	0	16.51	16.49	16.37			
100	QPSK	1	1	16.82	16.67	16.64			
100	QPSK	1	137	16.68	16.60	16.80	17.0	0.0	
100	QPSK	1	271	16.49	16.49	16.55			
100	QPSK	135	0	16.68	16.65	16.70	17.0	0.0	
100	QPSK	135	69	16.62	16.75	16.55	17.0	0.0	
100	QPSK	135	138	16.49	16.51	16.47	17.0	0.0	
100	QPSK	270	0	16.32	16.37	16.24			
100	16QAM	1	1	16.52	16.35	16.39	17.0	0.0	
100	64QAM	1	1	16.61	16.67	16.63	16.0	3.0	
100	256QAM	1	1	16.53	16.42	16.74	14.0	3.0	
Channel				643334	656000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02	17.0	0.0	
80	QPSK	1	1	16.55	16.65	16.29			
Channel				648968	656000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01	17.0	0.0	
60	QPSK	1	1	16.84	16.77	16.70	17.0	0.0	
Channel				643334	656000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02	17.0	0.0	
50	QPSK	1	1	16.72	16.55	16.40	17.0	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3950	17.0	0.0	
40	QPSK	1	1	16.69	16.84	16.80	17.0	0.0	
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01	17.0	0.0	
30	QPSK	1	1	16.39	16.74	16.50	17.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02	17.0	0.0	
20	QPSK	1	1	16.59	16.84	16.35	17.0	0.0	

PC2&3 Par27Q n77 Ant3 DS14 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334		3900.01			
100	PI/2 BPSK	1	1	16.88					
100	PI/2 BPSK	1	137	16.69			17.0	0.0	
100	PI/2 BPSK	1	271	16.76					
100	PI/2 BPSK	135	0	16.84					
100	PI/2 BPSK	135	69	16.92			17.0	0.0	
100	PI/2 BPSK	135	138	16.76					
100	PI/2 BPSK	270	0	16.63			17.0	0.0	
100	QPSK	1	1	16.97					
100	QPSK	1	137	16.65			17.0	0.0	
100	QPSK	1	271	16.52					
100	QPSK	135	0	16.81					
100	QPSK	135	69	16.68			17.0	0.0	
100	QPSK	135	138	16.72					
100	QPSK	270	0	16.40			17.0	0.0	
100	16QAM	1	1	16.48			17.0	0.0	
100	64QAM	1	1	16.76			17.0	0.0	
100	256QAM	1	1	16.48			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	17.0	0.0	
80	QPSK	1	109	16.51	16.50	16.24			
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	17.0	0.0	
60	QPSK	1	81	16.86	16.95	16.52			
Channel				631668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	17.0	0.0	
50	QPSK	1	67	16.50	16.60	16.22			
Channel				631334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	17.0	0.0	
40	QPSK	1	53	16.40	16.64	16.20			
Channel				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	17.0	0.0	
30	QPSK	1	39	16.37	16.50	16.20			
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	17.0	0.0	
20	QPSK	1	26	16.40	16.43	16.10			



PC2&3 Par270 n78 Ant3 DS14 DFT-30									
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				650000					
Frequency (MHz)				3750					
100	PI/2 BPSK	1	1	16.71			17.0	0.0	
100	PI/2 BPSK	1	137	16.75					
100	PI/2 BPSK	1	271	16.70					
100	PI/2 BPSK	135	0	16.77					
100	PI/2 BPSK	135	69	16.72					
100	PI/2 BPSK	135	138	16.69					
100	PI/2 BPSK	270	0	16.71					
100	QPSK	1	1	16.79					
100	QPSK	1	137	16.63					
100	QPSK	1	271	16.66					
100	QPSK	135	0	16.76					
100	QPSK	135	69	16.79					
100	QPSK	135	138	16.65					
100	QPSK	270	0	16.71					
100	16QAM	1	1	16.24			17.0	0.0	
100	64QAM	1	1	16.68			17.0	0.0	
100	256QAM	1	1	16.41			17.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1	16.40	16.64	16.57	17.0	0.0	
Channel				646668	650000	651334	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1	16.46	16.61	16.48	17.0	0.0	
Channel				646334	650000	651668	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1	16.30	16.65	16.64	17.0	0.0	
Channel				646000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1	16.37	16.72	16.53	17.0	0.0	
Channel				647668	650000	652334	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)	
30	QPSK	1	1	16.48	16.68	16.61	17.0	0.0	
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1	16.45	16.62	16.65	17.0	0.0	

PC2&3 Par27Q n78 Ant3 DS14 DFT-30									
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				633334					
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	16.66			17.0	0.0	
100	PI/2 BPSK	1	137	16.67					
100	PI/2 BPSK	1	271	16.50					
100	PI/2 BPSK	135	0	16.64					
100	PI/2 BPSK	135	69	16.67					
100	PI/2 BPSK	135	138	16.65					
100	PI/2 BPSK	270	0	16.53					
100	QPSK	1	1	16.76					
100	QPSK	1	137	16.62					
100	QPSK	1	271	16.49					
100	QPSK	135	0	16.55					
100	QPSK	135	69	16.67					
100	QPSK	135	138	16.47					
100	QPSK	270	0	16.55					
100	16QAM	1	1	16.03			17.0	0.0	
100	64QAM	1	1	16.51			17.0	0.0	
100	256QAM	1	1	16.39			17.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	109	16.55	16.75	16.45	17.0	0.0	
Channel				632000	633334	634668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	81	16.50	16.69	16.46	17.0	0.0	
Channel				631668	633334	635000	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	67	16.57	16.67	16.59	17.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	53	16.40	16.63	16.51	17.0	0.0	
Channel				631000	633334	635668	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	39	16.55	16.69	16.44	17.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	26	16.44	16.68	16.45	17.0	0.0	



Par270 n77 Ant5 DS14 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	656000	662000			
				3750	3840	3930			
100	PI/2 BPSK	1	1	15.76	15.75	15.68			
100	PI/2 BPSK	1	137	15.69	15.67	15.81	17.0	0.0	
100	PI/2 BPSK	1	271	15.77	15.75	15.74			
100	PI/2 BPSK	135	0	15.62	15.59	15.74	17.0	0.0	
100	PI/2 BPSK	135	69	15.80	15.77	15.70	17.0	0.0	
100	PI/2 BPSK	135	138	15.58	15.69	15.62	17.0	0.0	
100	PI/2 BPSK	270	0	15.51	15.56	15.42			
100	QPSK	1	1	15.90	15.95	15.61			
100	QPSK	1	137	15.76	15.72	15.70	17.0	0.0	
100	QPSK	1	271	15.52	15.45	15.52			
100	QPSK	135	0	15.67	15.74	15.75	17.0	0.0	
100	QPSK	135	69	15.60	15.66	15.77	17.0	0.0	
100	QPSK	135	138	15.40	15.60	15.58	17.0	0.0	
100	QPSK	270	0	15.52	15.57	15.52			
100	16QAM	1	1	15.55	15.47	15.49	17.0	0.0	
100	64QAM	1	1	15.61	15.79	15.75	17.0	0.0	
100	256QAM	1	1	15.50	15.52	15.74	17.0	0.0	
Channel				648334	656000	662688			
Frequency (MHz)				3740.01	3840	3940.02	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	15.78	15.80	15.55	17.0	0.0	
Channel				648668	656000	663334			
Frequency (MHz)				3730.02	3840	3950.01	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	15.80	15.83	15.67	17.0	0.0	
Channel				648334	656000	663688			
Frequency (MHz)				3725.01	3840	3955.02	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	15.71	15.67	15.57	17.0	0.0	
Channel				648000	656000	664000			
Frequency (MHz)				3720	3840	3950	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	15.58	15.48	15.53	17.0	0.0	
Channel				647868	656000	664334			
Frequency (MHz)				3715.02	3840	3965.01	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	15.40	15.39	15.62	17.0	0.0	
Channel				647334	656000	664688			
Frequency (MHz)				3710.01	3840	3970.02	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	15.48	15.56	15.43	17.0	0.0	

PC2&3 Par27Q n77 Ant5 DS14 DFT-30									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				633334					
				3500.01					
100	PI/2 BPSK	1	1	15.74					
100	PI/2 BPSK	1	137	15.57			17.0	0.0	
100	PI/2 BPSK	1	271	15.67					
100	PI/2 BPSK	135	0	15.55					
100	PI/2 BPSK	135	69	15.74			17.0	0.0	
100	PI/2 BPSK	135	138	15.59					
100	PI/2 BPSK	270	0	15.47			17.0	0.0	
100	QPSK	1	1	15.90					
100	QPSK	1	137	15.65			17.0	0.0	
100	QPSK	1	271	15.36					
100	QPSK	135	0	15.68					
100	QPSK	135	69	15.67			17.0	0.0	
100	QPSK	135	138	15.59					
100	QPSK	270	0	15.63					
100	16QAM	1	1	15.44			17.0	0.0	
100	64QAM	1	1	15.72			17.0	0.0	
100	256QAM	1	1	15.42			17.0	0.0	
Channel				632688	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	109	15.49	15.59	15.48	17.0	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	81	15.54	15.60	15.42	17.0	0.0	
Channel				631688	633334	636000			
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	67	15.50	15.64	15.43	17.0	0.0	
Channel				631334	633334	636334			
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	53	15.68	15.59	15.35	17.0	0.0	
Channel				631000	633334	636668			
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	39	15.71	15.52	15.47	17.0	0.0	
Channel				630688	633334	636900			
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	26	15.62	15.55	15.41	17.0	0.0	



Par270 n78 Ant5 DSI4 DFT-30								
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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1		15.57		17.0	0.0
100	PI/2 BPSK	1	137		15.44			
100	PI/2 BPSK	1	271		15.58			
100	PI/2 BPSK	135	0		15.57		17.0	0.0
100	PI/2 BPSK	135	69		15.58		17.0	0.0
100	PI/2 BPSK	135	138		15.60		17.0	0.0
100	PI/2 BPSK	270	0		15.48		17.0	0.0
100	QPSK	1	1		15.65		17.0	0.0
100	QPSK	1	137		15.54			
100	QPSK	1	271		15.57			
100	QPSK	135	0		15.60		17.0	0.0
100	QPSK	135	69		15.62		17.0	0.0
100	QPSK	135	138		15.55		17.0	0.0
100	QPSK	270	0		15.45		17.0	0.0
100	16QAM	1	1		15.09		17.0	0.0
100	64QAM	1	1		15.37		17.0	0.0
100	256QAM	1	1		15.21		17.0	0.0
Channel				649334	650000	650668		
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.35	15.54	15.23	17.0	0.0
Channel				646668	650000	651334		
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.27	15.57	15.35	17.0	0.0
Channel				646334	650000	651668		
Frequency (MHz)				3725.01	3750	3775.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.25	15.30	15.14	17.0	0.0
Channel				646000	650000	652000		
Frequency (MHz)				3720	3750	3780	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.24	15.51	15.33	17.0	0.0
Channel				647668	650000	652334		
Frequency (MHz)				3715.02	3750	3785.01	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.18	15.54	15.32	17.0	0.0
Channel				647334	650000	652668		
Frequency (MHz)				3710.01	3750	3790.02	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.23	15.51	15.24	17.0	0.0

PC2&3 Par27Q n78 Ant5 DSI4 DFT-30								
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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		15.42		17.0	0.0
100	PI/2 BPSK	1	137		15.27			
100	PI/2 BPSK	1	271		15.59			
100	PI/2 BPSK	135	0		15.55		17.0	0.0
100	PI/2 BPSK	135	69		15.50		17.0	0.0
100	PI/2 BPSK	135	138		15.49		17.0	0.0
100	PI/2 BPSK	270	0		15.41		17.0	0.0
100	QPSK	1	1		15.61		17.0	0.0
100	QPSK	1	137		15.44			
100	QPSK	1	271		15.50			
100	QPSK	135	0		15.41		17.0	0.0
100	QPSK	135	69		15.56		17.0	0.0
100	QPSK	135	138		15.44		17.0	0.0
100	QPSK	270	0		15.41		17.0	0.0
100	16QAM	1	1		15.04		17.0	0.0
100	64QAM	1	1		15.36		17.0	0.0
100	256QAM	1	1		15.06		17.0	0.0
Channel				632668	633334	634000		
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	109	15.22	15.45	15.21	17.0	0.0
Channel				632000	633334	634668		
Frequency (MHz)				3480	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	81	15.33	15.47	15.18	17.0	0.0
Channel				631668	633334	635000		
Frequency (MHz)				3475.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	67	15.18	15.49	15.25	17.0	0.0
Channel				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	53	15.15	15.38	15.33	17.0	0.0
Channel				631000	633334	635668		
Frequency (MHz)				3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	39	15.35	15.40	15.38	17.0	0.0
Channel				630668	633334	636000		
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	26	15.24	15.52	15.21	17.0	0.0



WLAN/Bluetooth Power

2.4GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.25	19.50	12.42	14.00	99.30
		6	2437	19.06	20.50	12.73	14.00	
		11	2462	18.69	20.50	12.68	14.00	
	802.11g 6Mbps	1	2412	17.23	19.00		14.00	98.30
		6	2437	17.63	19.00		14.00	
		11	2462	18.73	19.00		14.00	
	802.11n-HT20 MCS0	1	2412	17.19	18.00		14.00	98.20
		6	2437	17.40	18.00		14.00	
		11	2462	17.65	18.00		14.00	
	802.11n-HT40 MCS0	3	2422	12.02	14.00		14.00	95.10
		6	2437	15.39	16.00		14.00	
		9	2452	14.40	16.00		14.00	

5.2GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.64	18.50		12.50	97.60
		40	5200	17.64	18.50		12.50	
		44	5220	17.72	18.50		12.50	
		48	5240	18.11	18.50		12.50	
	802.11n-HT20 MCS0	36	5180	16.53	18.00		12.50	97.20
		40	5200	16.47	18.00		12.50	
		44	5220	16.60	18.00		12.50	
		48	5240	16.79	18.00		12.50	
	802.11n-HT40 MCS0	38	5190	15.73	17.00		12.50	94.90
		46	5230	15.93	17.00		12.50	
		36	5180	16.93	18.00		12.50	
		40	5200	16.93	18.00		12.50	
802.11ac-VHT20 MCS0	44	5220	17.05	18.00		12.50	97.40	
	48	5240	17.17	18.00		12.50		
	38	5190	15.73	17.00		12.50		
	46	5230	15.88	17.00		12.50		
802.11ac-VHT80 MCS0	42	5210	14.77	16.00	11.28	12.50	90.10	

5.3GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.06	18.50		12.50	97.60
		56	5280	18.14	18.50		12.50	
		60	5300	18.16	18.50		12.50	
		64	5320	18.21	18.50		12.50	
	802.11n-HT20 MCS0	52	5260	16.94	18.00		12.50	97.20
		56	5280	16.98	18.00		12.50	
		60	5300	17.17	18.00		12.50	
		64	5320	17.20	18.00		12.50	
	802.11n-HT40 MCS0	54	5270	16.16	17.50		12.50	94.90
		62	5310	16.43	17.50		12.50	
		52	5260	16.93	18.00		12.50	
		56	5280	17.05	18.00		12.50	
802.11ac-VHT20 MCS0	60	5300	17.17	18.00		12.50	97.40	
	64	5320	17.10	18.00		12.50		
	54	5270	16.24	17.50		12.50		
	62	5310	16.43	17.50		12.50		
802.11ac-VHT80 MCS0	58	5290	14.71	16.00	11.36	12.50	90.10	

5.8GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	100	5500	17.79	18.50		12.00	97.60
		116	5580	18.07	18.50		12.00	
		124	5620	18.15	18.50		12.00	
		132	5660	17.99	18.50		12.00	
		140	5700	17.84	18.50		12.00	
		144	5720	15.01	17.00		12.00	
	802.11n-HT20 MCS0	100	5500	16.70	18.00		12.00	97.20
		116	5580	17.03	18.00		12.00	
		124	5620	17.08	18.00		12.00	
		132	5660	16.97	18.00		12.00	
		140	5700	16.74	18.00		12.00	
		144	5720	13.81	15.50		12.00	
802.11n-HT40 MCS0	102	5510	15.94	17.00		12.00	94.90	
	110	5550	16.13	17.00		12.00		
	126	5630	16.35	17.00		12.00		
	134	5670	16.14	17.00		12.00		
	142	5710	13.79	15.50		12.00		
	100	5500	16.82	17.00		12.00		
802.11ac-VHT20 MCS0	116	5580	16.94	17.00		12.00	97.40	
	124	5620	17.16	18.00		12.00		
	132	5660	17.11	18.00		12.00		
	140	5700	16.71	17.00		12.00		
	144	5720	13.80	15.50		12.00		
	102	5510	15.95	17.00		12.00		
802.11ac-VHT40 MCS0	110	5550	16.09	17.00		12.00	95.10	
	126	5630	16.34	17.00		12.00		
	134	5670	16.08	17.00		12.00		
	142	5710	13.81	15.50		12.00		
	106	5530	14.74	16.00	10.78	12.00		
	122	5610	15.02	15.50	11.08	12.00		
802.11ac-VHT80 MCS0	138	5690	13.13	15.00	10.96	12.00	90.10	

5.8GHz WLAN				Ant 6 Receiver off		Ant 6 Receiver On		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	149	5745	16.51	18.00		11.50	97.60
		157	5785	16.40	18.00		11.50	
		165	5825	16.33	18.00		11.50	
	802.11n-HT20 MCS0	149	5745	15.47	17.00		11.50	97.20
		157	5785	15.31	17.00		11.50	
		165	5825	15.41	17.00		11.50	
	802.11n-HT40 MCS0	151	5755	14.54	16.50		11.50	94.90
		159	5795	14.40	16.00		11.50	
		149	5745	15.41	17.00		11.50	
	802.11ac-VHT20 MCS0	157	5785	15.32	17.00		11.50	97.40
		165	5825	15.41	17.00		11.50	
		151	5755	14.56	16.50		11.50	
802.11ac-VHT40 MCS0	159	5795	14.43	16.00		11.50	95.10	
	155	5775	13.43	15.00	10.35	11.50		
	155	5775	13.43	15.00	10.35	11.50		

BT BR/EDR					
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	9.54	8.88	9.72
	CH 39	2444	9.81	9.12	9.74
	CH 78	2450	9.52	8.95	9.33
	Tune-up Limit		11	11	11

BT LE v4.0			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.74
	CH 19	2440	5.88
	CH 39	2480	5.88
	Tune-up Limit		7.00

BT LE v5.0			
Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	5.50
	CH 19	2440	5.61
	CH 39	2480	5.42
	Tune-up Limit		7.00