

10605	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAD	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAC	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %
10672	AAC	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %

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 tables are shown as follows.



Full Power level/Default Power level/ Pmax Power Level for WWAN

GSM850 Ant0_Full Power									
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	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50	
GPRS 1 Tx slot	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50	
GPRS 2 Tx slots	29.72	29.46	29.37	30.00	23.72	23.46	23.37	24.00	
GPRS 3 Tx slots	28.29	28.02	27.92	29.50	24.03	23.76	23.66	25.24	
GPRS 4 Tx slots	26.57	26.32	26.18	27.50	23.57	23.32	23.18	24.50	
EDGE 1 Tx slot	25.29	25.38	25.33	27.00	16.29	16.38	16.33	18.00	
EDGE 2 Tx slots	23.54	23.76	23.74	25.00	17.54	17.76	17.74	19.00	
EDGE 3 Tx slots	22.31	22.45	22.39	24.00	18.05	18.19	18.13	19.74	
EDGE 4 Tx slots	20.21	20.43	20.30	22.00	17.21	17.43	17.30	19.00	

GSM1900 Ant0_Full Power									
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	1860	1909.8	1850.2	1860	1909.8			
GSM 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50	
GPRS 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50	
GPRS 2 Tx slots	26.47	26.63	26.64	27.50	20.47	20.63	20.64	21.50	
GPRS 3 Tx slots	25.42	25.61	25.23	26.50	21.16	21.35	20.97	22.24	
GPRS 4 Tx slots	23.27	22.93	22.90	24.00	20.27	19.93	19.90	21.00	
EDGE 1 Tx slot	25.18	25.27	25.16	26.50	16.18	16.27	16.16	17.50	
EDGE 2 Tx slots	23.60	23.78	23.67	24.50	17.60	17.78	17.67	18.50	
EDGE 3 Tx slots	22.48	22.66	22.56	23.50	18.22	18.40	18.30	19.24	
EDGE 4 Tx slots	20.24	20.35	20.31	21.00	17.24	17.35	17.31	18.00	

Band	WCDMA II Ant0_Full Power				WCDMA IV Ant0_Full Power				WCDMA V Ant0_Full Power				
	TX Channel	9282	9400	9538	Tune-up Limit (dBm)	1312	1413	1513	Tune-up Limit (dBm)	4132	4182	4233	Tune-up Limit (dBm)
Rx Channel	9692	9600	9538		1537	1638	1738		4387	4407	4468		
Frequency (MHz)	1852.4	1880	1907.8		1712.4	1732.6	1752.6		826.4	838.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.73	23.90	23.88	25.00	23.63	23.72	23.61	25.00	24.11	24.21	24.27	25.00
3GPP Rel 99	RMC 12.2Kbps	23.79	24.02	23.94	25.00	23.78	23.86	23.66	25.00	24.17	24.35	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	23.10	23.11	23.10	24.00	23.26	23.15	22.92	24.00	23.17	23.25	23.31	24.00
3GPP Rel 6	HSDPA Subtest-2	23.11	23.15	22.82	24.00	23.21	23.15	22.93	24.00	23.15	23.23	23.33	24.00
3GPP Rel 6	HSDPA Subtest-3	22.53	22.61	22.60	23.50	22.76	22.67	22.42	23.50	22.65	22.74	22.80	23.50
3GPP Rel 6	HSDPA Subtest-4	22.59	22.64	22.60	23.50	22.74	22.70	22.41	23.50	22.65	22.77	22.78	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.95	22.97	23.05	24.00	23.16	22.99	22.82	24.00	23.04	23.10	23.32	24.00
3GPP Rel 6	DC-HSDPA Subtest-2	23.07	23.02	22.73	24.00	23.11	22.99	22.79	24.00	23.16	23.07	23.15	24.00
3GPP Rel 6	DC-HSDPA Subtest-3	22.47	22.52	22.39	23.50	22.54	22.55	22.39	23.50	22.44	22.68	22.64	23.50
3GPP Rel 6	DC-HSDPA Subtest-4	22.39	22.48	22.57	23.50	22.58	22.51	22.33	23.50	22.49	22.61	22.74	23.50
3GPP Rel 6	HSUPA Subtest-1	23.09	23.12	23.08	24.00	23.20	23.15	22.92	24.00	23.51	23.55	23.61	24.00
3GPP Rel 6	HSUPA Subtest-2	21.12	21.09	21.08	22.00	21.20	21.15	20.96	22.00	21.51	21.56	21.63	22.00
3GPP Rel 6	HSUPA Subtest-3	22.11	22.11	22.05	23.00	22.25	22.14	21.88	23.00	22.49	22.55	22.56	23.00
3GPP Rel 6	HSUPA Subtest-4	21.10	21.12	21.10	22.00	21.25	21.15	20.89	22.00	21.47	21.57	21.63	22.00
3GPP Rel 6	HSUPA Subtest-5	23.09	23.10	23.11	24.00	23.20	23.10	22.90	24.00	23.50	23.50	23.60	24.00



Band 12 Ant0_Full Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.86	23.19	23.66			
10	QPSK	1	25	23.03	23.10	23.65			
10	QPSK	1	49	23.12	23.13	23.11		24	0
10	QPSK	25	0	23.64	23.15	23.68			
10	QPSK	25	12	23.14	23.09	23.12			
10	QPSK	25	25	23.14	23.06	22.99		24	0
10	QPSK	50	0	22.86	23.13	23.68			
10	16QAM	1	0	22.99	22.91	23.01			
10	16QAM	1	25	23.04	23.00	23.10		24	0
10	16QAM	1	49	23.06	23.08	23.10			
10	16QAM	25	0	22.92	22.95	22.96			
10	16QAM	25	12	22.95	22.98	22.96		24	0
10	16QAM	25	25	22.95	22.97	22.92			
10	16QAM	50	0	22.81	22.97	23.01			
10	16QAM	1	0	22.88	22.87	23.01			
10	16QAM	1	25	22.93	22.92	23.15		24	0
10	16QAM	25	0	22.92	22.93	22.99			
10	16QAM	25	12	22.93	22.97	22.91		24	0
10	16QAM	25	25	22.94	22.97	22.95			
10	16QAM	50	0	22.81	22.99	22.90			
10	16QAM	1	0	19.44	19.51	19.47			
10	16QAM	1	25	19.46	19.54	19.45		20	4
10	16QAM	1	49	19.53	19.53	19.58			
10	16QAM	25	0	19.47	19.54	19.58		20	4
10	16QAM	25	12	19.47	19.54	19.58			
10	16QAM	25	25	19.52	19.43	19.40			
10	16QAM	50	0	19.50	19.54	19.50			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.80	23.03	22.77			
5	QPSK	1	12	22.84	23.04	22.84		24	0
5	QPSK	1	24	22.93	23.08	23.13			
5	QPSK	12	0	22.84	22.99	22.99			
5	QPSK	12	7	22.99	22.99	22.96		24	0
5	QPSK	12	13	22.99	23.07	22.79			
5	QPSK	25	0	22.82	23.04	22.99			
5	16QAM	1	0	22.93	22.74	23.09			
5	16QAM	1	12	22.82	22.97	23.00		24	0
5	16QAM	1	24	22.98	23.01	23.12			
5	16QAM	12	0	22.84	22.95	22.84			
5	16QAM	12	7	22.44	22.40	22.32		24	0
5	16QAM	12	13	22.95	22.91	22.91			
5	16QAM	25	0	22.87	22.97	22.95			
5	16QAM	25	0	22.87	22.97	22.95		24	0
5	16QAM	12	0	22.72	22.81	22.86			
5	16QAM	12	7	22.81	22.80	22.86		24	0
5	16QAM	12	13	22.90	22.96	22.96			
5	16QAM	25	0	22.80	22.86	23.05			
5	16QAM	25	0	22.88	22.98	22.42		24	0
5	16QAM	12	0	19.43	19.41	19.48			
5	16QAM	12	13	19.45	19.45	19.45		24	0
5	16QAM	25	0	19.43	19.49	19.61			
5	16QAM	25	0	19.43	19.49	19.61		20	4
5	16QAM	50	0	19.52	19.55	19.54			
5	16QAM	25	0	19.52	19.62	19.65			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.71	22.94	22.70			
3	QPSK	1	14	22.92	22.91	22.80		24	0
3	QPSK	8	0	22.86	23.09	22.90			
3	QPSK	8	7	22.86	22.97	22.84		24	0
3	QPSK	16	0	22.71	22.92	22.87			
3	16QAM	1	0	22.83	22.96	22.98			
3	16QAM	1	8	22.84	22.90	22.87		24	0
3	16QAM	1	14	22.93	22.94	22.98			
3	16QAM	8	0	22.76	22.94	22.92			
3	16QAM	8	4	22.28	22.98	22.22		24	0
3	16QAM	16	0	22.87	22.97	22.95			
3	16QAM	16	0	22.26	22.22	22.10			
3	16QAM	1	0	22.80	22.76	22.87			
3	16QAM	1	8	22.79	22.96	23.00		24	0
3	16QAM	1	14	22.77	22.98	22.83			
3	16QAM	8	0	22.34	22.21	22.37			
3	16QAM	8	4	22.98	22.40	22.48		24	0
3	16QAM	16	0	22.41	22.50	22.55			
3	16QAM	16	0	22.45	22.40	22.34			
3	16QAM	1	0	19.43	19.40	19.26			
3	16QAM	1	8	19.42	19.53	19.59		20	4
3	16QAM	1	14	19.53	19.52	19.44			
3	16QAM	8	0	19.48	19.54	19.65		20	4
3	16QAM	8	4	19.44	19.43	19.56			
3	16QAM	8	7	19.61	19.39	19.20			
3	16QAM	16	0	19.29	19.41	19.38			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.82	22.99	22.71			
1.4	QPSK	1	3	22.96	23.00	23.15		24	0
1.4	QPSK	1	5	22.90	22.83	23.07			
1.4	QPSK	3	0	22.98	23.01	23.07			
1.4	QPSK	3	1	22.97	23.04	23.18			
1.4	QPSK	3	3	22.97	23.00	23.12		24	0
1.4	QPSK	6	0	22.98	23.06	23.16			
1.4	16QAM	1	0	22.94	23.14	23.18			
1.4	16QAM	1	3	22.98	23.05	23.17		24	0
1.4	16QAM	1	5	22.93	23.01	23.13			
1.4	16QAM	3	0	22.76	22.81	22.91			
1.4	16QAM	3	1	22.77	22.78	22.83		24	0
1.4	16QAM	3	3	22.73	22.76	22.91			
1.4	16QAM	6	0	22.39	22.45	22.58		24	0
1.4	16QAM	1	0	22.62	22.94	23.12			
1.4	16QAM	1	3	23.01	22.97	23.10			
1.4	16QAM	1	5	22.83	22.91	23.03		24	0
1.4	16QAM	3	0	22.85	22.93	23.05			
1.4	16QAM	3	1	22.87	22.90	23.04			
1.4	16QAM	3	3	22.86	22.88	23.01			
1.4	16QAM	6	0	22.50	22.56	22.70		24	0
1.4	16QAM	1	0	19.27	19.58	19.29			
1.4	16QAM	1	3	19.48	19.61	19.53		20	4
1.4	16QAM	1	5	19.52	19.53	19.50			
1.4	16QAM	3	0	19.26	19.42	19.55		20	4
1.4	16QAM	3	1	19.55	19.57	19.49			
1.4	16QAM	3	3	19.51	19.56	19.38			
1.4	16QAM	6	0	19.27	19.45	19.50		20	4

Band 13 Ant0_Full Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.86	22.84	22.74			
10	QPSK	1	25	22.81	22.88	22.74		24	0
10	QPSK	1	49	22.86	22.88	22.82			
10	QPSK	25	0	22.86	22.88	22.82			
10	QPSK	25	12	22.81	22.84	22.87		24	0
10	QPSK	25	25	22.83	22.86	22.82			
10	QPSK	50	0	22.86	22.84	22.82			
10	16QAM	1	0	22.92	22.90	22.92			
10	16QAM	1	25	22.94	22.94	22.94		24	0
10	16QAM	1	49	22.91	22.91	22.91			
10	16QAM	25	0	22.79	22.79	22.79			
10	16QAM	25	12	21.32	21.32	21.32		23	1
10	16QAM	25	25	21.31	21.31	21.31			
10	16QAM	50	0	21.24	21.24	21.24			
10	16QAM	1	0	22.40	22.40	22.40			
10	16QAM	1	25	22.46	22.46	22.46		24	0
10	16QAM	1	49	22.32	22.32	22.32			
10	16QAM	25	0	21.62	21.62	21.62			
10	16QAM	25	12	21.67	21.67	21.67		23	1
10	16QAM	25	25	21.62	21.62	21.62			
10	16QAM	50	0	21.42	21.42	21.42			
10	16QAM	1	0	19.76	19.76	19.76			
10	16QAM	1	25	19.77	19.77	19.77		20	4
10	16QAM	1	49	19.50	19.50	19.50			
10	16QAM	25	0	19.17	19.17	19.17			
10	16QAM	25	12	19.04	19.04	19.04		20	4
10	16QAM	25	25	19.08	19.08	19.08			
10	16QAM	50	0	18.87	18.87	18.87			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.86	22.84	22.74			
5	QPSK	1	12	22.85	22.88	22.82		24	0
5	QPSK	1	24	22.78	22.78	22.78			
5	QPSK	12	0	22.47	22.41	22.67			
5	QPSK	12	7	22.87	22.91	22.93		24	0
5	QPSK	12	13	22.32	22.58	22.23			
5	QPSK	25	0	22.38	22.16	22.42			
5	16QAM	1	0	22.99	22.96	22.92			
5	16QAM	1	12	22.49	22.59	22.76		24	0
5	16QAM	1	24	22.72	22.78	22.98			
5	16QAM	12	0	21.54	21.45	21.79			
5	16QAM	12	7	21.32	21.48	21.73		23	1
5	16QAM	12	13	21.34	21.71	21.37			
5	16QAM	25	0	21.42	21.25	21.64			
5	16QAM	25	0	22.84	22.42	22.52		24	0
5	16QAM	12	0	19.50	19.49	19.43			
5	16QAM	12	13	19.51	19.53	19.54		23	1
5	16QAM	25	0	19.43	19.49	19.64			
5	16QAM	25	0	19.43	19.49				



Band 25 Ant0_Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.14	23.26	23.12				
20	QPSK	1	49	23.01	23.05	23.00	24	0		
20	QPSK	50	0	23.15	23.24	23.16				
20	QPSK	50	24	23.14	23.16	23.15				
20	QPSK	50	50	23.19	23.21	23.19	24	0		
20	QPSK	100	0	23.21	23.25	23.13				
20	QPSK	100	0	23.20	23.21	23.20				
20	HQAM	1	49	23.16	23.15	23.21	24	0		
20	HQAM	1	99	22.94	23.00	22.96				
20	HQAM	50	0	22.94	22.94	22.95				
20	HQAM	50	24	22.91	22.94	22.93	24	0		
20	HQAM	50	50	22.96	22.96	22.93				
20	HQAM	100	0	22.96	22.98	22.93				
20	HQAM	100	0	23.05	23.12	23.05				
20	HQAM	1	49	22.97	22.92	23.14	24	0		
20	HQAM	1	99	22.98	22.99	22.97				
20	HQAM	50	0	22.92	22.81	22.97				
20	HQAM	50	24	22.88	22.71	22.98	24	0		
20	HQAM	50	50	22.93	22.86	22.92				
20	HQAM	100	0	22.86	22.88	22.95				
20	HQAM	100	0	22.96	22.97	22.94				
20	HQAM	1	49	19.95	19.95	19.96	20	4		
20	HQAM	1	99	19.45	19.55	19.43				
20	HQAM	50	0	19.45	19.45	19.45				
20	HQAM	50	24	19.43	19.45	19.56	20	4		
20	HQAM	50	50	19.66	19.56	19.57				
20	HQAM	100	0	19.66	19.57	19.54				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.01	23.16	23.02				
15	QPSK	1	49	22.93	22.99	22.94	24	0		
15	QPSK	1	74	22.86	23.00	22.88				
15	QPSK	36	0	23.03	23.04	23.09				
15	QPSK	36	0	23.06	23.12	23.16				
15	QPSK	36	36	23.05	23.04	23.02	24	0		
15	QPSK	75	0	23.21	23.15	23.12				
15	HQAM	1	49	23.00	23.02	23.01				
15	HQAM	1	97	23.10	22.99	23.16	24	0		
15	HQAM	1	74	22.95	22.97	22.96				
15	HQAM	36	0	22.93	22.99	22.92				
15	HQAM	36	0	22.93	22.97	22.98				
15	HQAM	75	0	22.84	22.90	22.88				
15	HQAM	1	0	22.84	22.91	22.89	24	0		
15	HQAM	1	49	22.73	22.86	22.91				
15	HQAM	36	0	22.93	22.97	22.97				
15	HQAM	36	0	22.96	22.97	22.94				
15	HQAM	36	36	22.93	22.93	22.98	24	0		
15	HQAM	75	0	22.45	22.55	22.47				
15	HQAM	1	49	19.58	19.58	19.58				
15	HQAM	1	97	19.53	19.54	19.48	20	4		
15	HQAM	1	74	19.34	19.47	19.49				
15	HQAM	36	0	19.34	19.34	19.33				
15	HQAM	36	36	19.51	19.54	19.50	20	4		
15	HQAM	36	36	19.70	19.66	19.67				
15	HQAM	75	0	19.71	19.71	19.71				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.88	22.98	22.99				
10	QPSK	1	49	22.86	22.88	22.95	24	0		
10	QPSK	26	0	22.98	22.98	22.99				
10	QPSK	12	0	22.98	23.14	23.17				
10	QPSK	26	26	23.03	23.12	23.03	24	0		
10	QPSK	50	0	23.22	23.24	23.27				
10	HQAM	1	25	23.17	23.07	23.20	24	0		
10	HQAM	1	49	22.89	22.89	22.89				
10	HQAM	26	0	22.91	22.91	22.94				
10	HQAM	26	0	22.91	22.91	22.91				
10	HQAM	50	0	22.83	22.83	22.83				
10	HQAM	25	12	22.36	22.48	22.30	24	0		
10	HQAM	25	12	22.36	22.48	22.30				
10	HQAM	50	0	22.38	22.48	22.29				
10	HQAM	1	0	22.96	23.00	23.02	24	0		
10	HQAM	1	49	22.78	22.81	22.86				
10	HQAM	26	0	22.46	22.52	22.52				
10	HQAM	26	26	22.48	22.52	22.50	24	0		
10	HQAM	50	0	22.69	22.62	22.42				
10	HQAM	1	25	19.56	19.63	19.63				
10	HQAM	1	25	19.55	19.47	19.60	20	4		
10	HQAM	1	49	19.30	19.41	19.47				
10	HQAM	26	0	19.30	19.30	19.30				
10	HQAM	26	12	19.43	19.58	19.50	20	4		
10	HQAM	26	25	19.58	19.50	19.64				
10	HQAM	50	0	19.67	19.76	19.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.92	18.93	18.94				
5	QPSK	1	12	23.11	22.93	22.94	24	0		
5	QPSK	1	24	22.86	22.97	23.01				
5	QPSK	1	12	22.98	23.04	22.98				
5	QPSK	12	7	22.97	23.01	22.99	24	0		
5	QPSK	12	13	23.08	23.11	22.88				
5	QPSK	26	0	23.06	23.07	23.07				
5	HQAM	1	0	22.83	22.83	23.01				
5	HQAM	1	12	23.00	22.93	23.20	24	0		
5	HQAM	1	24	22.87	22.87	22.85				
5	HQAM	12	0	22.40	22.29	22.30				
5	HQAM	12	7	22.38	22.44	22.23	24	0		
5	HQAM	15	13	22.92	22.93	22.90				
5	HQAM	26	0	22.47	22.37	22.28				
5	HQAM	1	0	22.87	22.95	22.85	24	0		
5	HQAM	1	12	23.13	23.03	23.00				
5	HQAM	1	24	22.72	22.83	22.90				
5	HQAM	12	0	22.92	22.92	22.91				
5	HQAM	12	7	22.83	22.95	22.80	24	0		
5	HQAM	25	0	22.54	22.52	22.40				
5	HQAM	1	0	19.40	19.63	19.67				
5	HQAM	1	12	19.59	19.62	19.48	20	4		
5	HQAM	1	24	19.38	19.51	19.37				
5	HQAM	12	0	19.46	19.56	19.49				
5	HQAM	12	7	19.53	19.62	19.63	20	4		
5	HQAM	12	13	19.55	19.51	19.57				
5	HQAM	26	0	19.59	19.58	19.59				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.93	18.90	18.93				
3	QPSK	1	8	22.95	23.00	22.95	24	0		
3	QPSK	1	14	22.75	22.81	22.85				
3	QPSK	3	0	23.08	23.14	23.05				
3	QPSK	3	4	22.97	22.95	22.92	24	0		
3	QPSK	3	7	22.89	23.09	22.93				
3	QPSK	15	0	23.08	23.08	23.01				
3	HQAM	1	0	22.76	22.69	22.79	24	0		
3	HQAM	1	8	22.95	22.97	22.90				
3	HQAM	3	0	22.74	22.76	22.76				
3	HQAM	3	0	22.23	22.34	22.28				
3	HQAM	3	4	22.34	22.46	22.19	24	0		
3	HQAM	3	7	22.38	22.26	22.20				
3	HQAM	15	0	22.25	22.25	22.18				
3	HQAM	1	0	22.93	22.94	22.80	24	0		
3	HQAM	1	8	22.87	22.93	22.82				
3	HQAM	1	14	22.66	22.70	22.87				
3	HQAM	3	0	22.54	22.37	22.38				
3	HQAM	3	4	22.56	22.41	22.42	24	0		
3	HQAM	3	7	22.33	22.54	22.32				
3	HQAM	15	0	22.36	22.52	22.47				
3	HQAM	1	0	19.83	19.76	19.45				
3	HQAM	1	8	19.64	19.52	19.48	20	4		
3	HQAM	1	14	19.33	19.46	19.30				
3	HQAM	3	0	19.54	19.55	19.45				
3	HQAM	3	4	19.46	19.50	19.37	20	4		
3	HQAM	3	7	19.49	19.48	19.43				
3	HQAM	15	0	19.51	19.65	19.47				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.96	23.17	22.88				
1.4	QPSK	1	3	22.82	22.82	23.05				
1.4	QPSK	1	5	22.71	22.75	22.82	24	0		
1.4	QPSK	3	0	23.08	23.14	23.05				
1.4	QPSK	3	1	23.04	23.05	23.27				
1.4	QPSK	3	3	23.04	23.12	23.25	24	0		
1.4	QPSK	15	0	23.08	23.13	23.23				
1.4	HQAM	1	0	23.06	23.05	23.31				
1.4	HQAM	1	3	23.00	23.12	23.28	24	0		
1.4	HQAM	1	5	22.98	23.07	23.20				
1.4	HQAM	3	0	22.80	22.79	23.04				
1.4	HQAM	3	1	22.82	22.86	23.00				
1.4	HQAM	3	3	22.81	22.91	23.10				
1.4	HQAM	3	0	23.07	23.11	23.28	24	0		
1.4	HQAM	1	0	23.21	23.15	23.24				
1.4	HQAM	1	3	23.05	23.14	23.20				
1.4	HQAM	1	5	23.17	23.26	23.14	24	0		
1.4	HQAM	3	0	23.19	23.07	23.32				
1.4	HQAM	3	1	23.13	23.14	23.29				
1.4	HQAM	3	3	2						



GSM850 Ant1_Full Power

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	33.50	23.03	22.92	23.16	24.50
GSM 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GPRS 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GPRS 2 Tx slots	29.17	29.02	28.96	30.50	23.17	23.02	22.96	24.50
GPRS 3 Tx slots	27.62	27.43	27.34	29.00	23.36	23.17	23.08	24.74
GPRS 4 Tx slots	25.51	25.65	25.60	27.50	22.51	22.65	22.60	24.50
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50

WCDMA V Ant1_Full Power

Band	WCDMA V			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.41	23.55	23.56	25.00
3GPP Rel 99	RMG 12.2Kbps	23.46	23.65	23.62	25.00
3GPP Rel 6	HSDPA Subtest-1	22.82	22.88	22.99	24.00
3GPP Rel 6	HSDPA Subtest-2	22.75	22.88	22.98	24.00
3GPP Rel 6	HSDPA Subtest-3	22.28	22.39	22.45	23.50
3GPP Rel 6	HSDPA Subtest-4	22.27	22.38	22.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.80	22.66	22.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.64	22.78	22.76	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	22.37	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.14	22.21	22.33	23.50
3GPP Rel 6	HSUPA Subtest-1	22.76	22.83	22.93	24.00
3GPP Rel 6	HSUPA Subtest-2	20.78	20.84	20.93	22.00
3GPP Rel 6	HSUPA Subtest-3	21.73	21.79	21.89	23.00
3GPP Rel 6	HSUPA Subtest-4	20.73	20.84	20.88	22.00
3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	22.90	24.00



Band 2 Ant1_Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Ch./F.Freq.	Power Ch./F.Freq.	Turn-up (min)	MRR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.21	22.24	22.43				
20	QPSK	1	49	22.22	22.27	22.43	24	0		
20	QPSK	1	99	22.12	22.08	22.14				
20	QPSK	50	0	22.18	22.34	22.27				
20	QPSK	50	24	22.19	22.34	22.27				
20	QPSK	50	50	22.19	22.21	22.22	24	0		
20	QPSK	100	0	22.13	22.24	22.28				
20	QPSK	100	24	22.19	22.24	22.28				
20	16QAM	1	49	22.31	22.28	22.21	24	0		
20	16QAM	1	99	22.19	22.24	22.28				
20	16QAM	50	0	21.83	21.86	21.88				
20	16QAM	50	24	21.88	21.87	21.89	23	1		
20	16QAM	100	0	21.85	21.85	21.82				
20	16QAM	100	24	21.83	21.81	21.77				
20	64QAM	1	0	22.31	22.22	22.22				
20	64QAM	1	49	22.27	22.27	22.21	24	0		
20	64QAM	1	99	22.30	22.21	22.28				
20	64QAM	50	0	21.83	21.75	21.72				
20	64QAM	50	24	21.86	21.77	21.88	23	1		
20	64QAM	100	0	21.82	21.82	21.82				
20	64QAM	100	24	21.83	21.81	21.77				
20	256QAM	1	49	18.83	18.72	18.75	20	4		
20	256QAM	1	99	18.87	18.81	18.78				
20	256QAM	50	0	18.83	18.81	18.82				
20	256QAM	50	24	18.81	18.77	18.85	20	4		
20	256QAM	100	0	18.79	18.78	18.84				
20	256QAM	100	24	18.82	18.81	18.82				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.41	22.28	22.34				
15	QPSK	1	49	22.41	22.30	22.30	24	0		
15	QPSK	1	74	22.30	22.30	22.30				
15	QPSK	36	0	22.44	22.37	22.44				
15	QPSK	36	24	22.44	22.44	22.37				
15	QPSK	36	39	22.42	22.39	22.38	24	0		
15	QPSK	75	0	22.46	22.41	22.27				
15	QPSK	75	24	22.26	22.16	22.22				
15	16QAM	1	37	22.40	22.25	22.22	24	0		
15	16QAM	1	74	22.25	22.19	22.22				
15	16QAM	1	99	21.81	21.85	21.87				
15	16QAM	36	20	21.88	21.84	21.89	23	1		
15	16QAM	36	39	21.88	21.88	21.88				
15	16QAM	75	0	21.82	21.83	21.87				
15	16QAM	75	24	21.82	21.83	21.87				
15	64QAM	1	0	22.42	22.19	22.21	24	0		
15	64QAM	1	49	22.20	22.21	22.24				
15	64QAM	1	74	22.20	22.21	22.24				
15	64QAM	36	0	21.81	21.78	21.87	23	1		
15	64QAM	36	24	21.82	21.82	21.82				
15	64QAM	36	39	21.86	21.81	21.84				
15	64QAM	75	0	21.85	21.85	21.85				
15	64QAM	75	24	21.85	21.85	21.85				
15	256QAM	1	37	18.85	18.91	18.77	20	4		
15	256QAM	1	74	18.88	18.85	18.78				
15	256QAM	1	99	18.90	18.88	18.88				
15	256QAM	36	20	18.86	18.83	18.89	20	4		
15	256QAM	36	39	18.77	18.78	18.71				
15	256QAM	75	0	18.85	18.85	18.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.32	22.22	22.27				
10	QPSK	1	49	22.32	22.27	22.22	24	0		
10	QPSK	1	49	22.31	22.21	22.18				
10	QPSK	25	0	22.28	22.29	22.22				
10	QPSK	25	24	22.28	22.28	22.22				
10	QPSK	25	24	22.34	22.31	22.23	24	0		
10	QPSK	50	0	22.28	22.22	22.23				
10	QPSK	50	24	22.32	22.29	22.14				
10	16QAM	1	25	22.31	22.29	22.24				
10	16QAM	1	50	22.28	22.28	22.28				
10	16QAM	1	75	21.76	21.78	21.77				
10	16QAM	25	12	21.80	21.78	21.80	23	1		
10	16QAM	25	36	21.80	21.80	21.80				
10	16QAM	50	0	21.85	21.85	21.85				
10	16QAM	50	24	21.83	21.82	21.82				
10	64QAM	1	0	22.42	22.38	22.20	24	0		
10	64QAM	1	49	22.23	22.27	22.25				
10	64QAM	1	49	22.23	22.27	22.25				
10	64QAM	25	0	22.29	21.83	21.88	23	1		
10	64QAM	25	24	22.14	21.78	21.88				
10	64QAM	25	25	21.95	21.97	21.74				
10	64QAM	50	0	21.89	21.88	21.77				
10	256QAM	1	25	18.87	18.87	18.85	20	4		
10	256QAM	1	49	18.85	18.73	18.75				
10	256QAM	1	75	18.89	18.88	18.88				
10	256QAM	25	12	18.87	18.88	18.85	20	4		
10	256QAM	25	25	18.89	18.83	18.88				
10	256QAM	50	0	18.79	18.83	18.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.23	22.23	22.27				
5	QPSK	1	24	22.17	22.10	22.07	24	0		
5	QPSK	12	0	22.25	22.25	22.25				
5	QPSK	12	13	22.27	22.26	22.26	24	0		
5	QPSK	12	13	22.21	22.16	22.10				
5	QPSK	25	0	22.28	22.28	22.28				
5	16QAM	1	0	22.23	22.14	22.13	24	0		
5	16QAM	1	12	22.26	22.24	22.11				
5	16QAM	1	24	21.88	21.84	21.86				
5	16QAM	12	7	21.83	21.81	21.84	23	1		
5	16QAM	12	7	21.82	21.82	21.86				
5	16QAM	25	0	21.86	21.86	21.86				
5	16QAM	25	0	21.86	21.81	21.86				
5	64QAM	1	0	22.42	22.38	22.24	24	0		
5	64QAM	1	49	22.23	22.27	22.25				
5	64QAM	1	49	22.23	22.27	22.25				
5	64QAM	12	0	21.80	21.78	21.81	23	1		
5	64QAM	12	13	21.80	21.81	21.75				
5	64QAM	25	0	21.92	21.74	21.74				
5	256QAM	1	12	18.88	18.83	18.87	20	4		
5	256QAM	1	24	18.82	18.77	18.71				
5	256QAM	1	49	18.88	18.88	18.88				
5	256QAM	12	7	18.79	18.75	18.71	20	4		
5	256QAM	12	13	18.87	18.86	18.77				
5	256QAM	25	0	18.72	18.78	18.78				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.23	22.23	22.27				
3	QPSK	1	8	22.23	22.18	22.13	24	0		
3	QPSK	1	14	22.24	22.26	22.20				
3	QPSK	1	23	22.18	22.18	22.18				
3	QPSK	8	4	22.27	22.23	22.12	24	0		
3	QPSK	8	7	22.22	22.19	22.12				
3	QPSK	15	0	22.28	22.18	22.12				
3	16QAM	1	0	22.22	22.42	22.25	24	0		
3	16QAM	1	8	22.28	22.40	22.22				
3	16QAM	1	8	21.81	21.89	21.81	23	1		
3	16QAM	8	4	21.74	21.72	21.81				
3	16QAM	8	21	21.85	21.85	21.85				
3	16QAM	15	0	21.88	21.85	21.82				
3	64QAM	1	0	22.46	22.32	22.34	24	0		
3	64QAM	1	14	22.28	22.19	22.14				
3	64QAM	1	21	21.80	21.81	21.86				
3	64QAM	8	7	21.89	21.87	21.83	23	1		
3	64QAM	8	7	21.81	21.89	21.79				
3	256QAM	1	0	21.86	21.86	21.86	20	4		
3	256QAM	1	8	18.81	18.96	18.91				
3	256QAM	1	14	18.71	18.73	18.83				
3	256QAM	8	4	18.82	18.85	18.78	20	4		
3	256QAM	8	7	18.77	18.82	18.73				
3	256QAM	15	0	18.82	18.84	18.74				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.45	22.25	22.43				
1.4	QPSK	1	5	22.44	22.44	22.42	24	0		
1.4	QPSK	1	5	22.44	22.38	22.27				
1.4	QPSK	3	0	22.45	22.43	22.28				
1.4	QPSK	3	1	22.52	22.43	22.31	24	0		
1.4	QPSK	3	23	22.47	22.47	22.34				
1.4	16QAM	1	0	22.32	22.28	22.16				
1.4	16QAM	1	3	22.36	22.36	22.21	24	0		
1.4	16QAM	3	0	22.27	22.21	22.07				
1.4	16QAM	3	1	22.31	22.21	22.07				
1.4	16QAM	3	1	22.27	22.15	22.09				
1.4	16QAM	6	0	21.80	21.73	21.82	23	1		
1.4	16QAM	6	0	22.40	22.40	22.19				
1.4	16QAM	6	1	22.41	22.43	22.21				
1.4	64QAM	1	0	22.48						



Band 12 Ant1_Full Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel 704 707.5 711									
10	QPSK	1	0	24.22	24.41	24.20			
10	QPSK	1	25	24.33	24.38	24.33			
10	QPSK	1	49	24.26	24.31	24.27		25	0
10	QPSK	25	0	24.27	24.40	24.31			
10	QPSK	25	12	24.31	24.32	24.35			
10	QPSK	25	25	24.37	24.21	24.32		25	0
10	QPSK	50	0	24.30	24.37	24.30			
10	16QAM	1	0	24.21	24.22	24.22			
10	16QAM	1	25	24.33	24.28	24.32		25	0
10	16QAM	1	49	24.32	24.32	24.30			
10	16QAM	25	0	23.99	23.93	23.95			
10	16QAM	25	12	23.70	23.87	23.65		25	0
10	16QAM	25	25	23.69	23.74	23.72			
10	16QAM	50	0	23.68	23.61	23.65			
10	64QAM	1	0	24.22	24.17	24.30			
10	64QAM	1	25	24.27	24.21	24.28		24	0
10	64QAM	25	0	23.77	23.80	23.83			
10	64QAM	25	12	23.60	23.66	23.67		25	0
10	64QAM	25	25	23.60	23.61	23.63			
10	64QAM	50	0	23.67	23.61	23.63			
10	256QAM	1	0	20.48	20.65	20.48			
10	256QAM	1	25	20.70	20.73	20.65		21	4
10	256QAM	1	49	20.56	20.71	20.60			
10	256QAM	25	0	20.50	20.69	20.69		21	4
10	256QAM	25	12	20.50	20.69	20.69			
10	256QAM	25	25	20.71	20.63	20.67			
10	256QAM	50	0	20.65	20.65	20.65			
Channel 2305 2305 2305									
5	QPSK	1	0	24.09	24.22	24.10			
5	QPSK	1	25	24.11	24.15	24.10		24	0
5	QPSK	1	49	24.24	24.24	24.24			
5	QPSK	12	0	24.12	24.34	24.24			
5	QPSK	12	7	24.23	24.27	24.28		24	0
5	QPSK	12	13	24.26	24.11	24.12			
5	QPSK	25	0	24.10	24.28	24.26			
5	16QAM	1	0	24.05	24.11	24.05			
5	16QAM	1	12	24.15	24.22	24.20		24	0
5	16QAM	1	24	24.27	24.12	24.18			
5	16QAM	12	0	23.62	23.39	23.43			
5	16QAM	12	7	23.64	23.50	23.39		23	1
5	16QAM	12	13	23.64	23.50	23.39			
5	16QAM	25	0	23.43	23.39	23.43			
5	64QAM	1	0	23.97	24.00	24.10		24	0
5	64QAM	1	12	24.05	24.01	24.00			
5	64QAM	1	24	24.17	24.02	24.03			
5	64QAM	12	0	23.62	23.54	23.73			
5	64QAM	12	7	23.64	23.59	23.54		24	1
5	64QAM	12	13	23.62	23.67	23.65			
5	64QAM	25	0	23.70	23.69	23.62			
5	256QAM	1	0	19.51	19.55	19.57		19	5
5	256QAM	1	24	19.84	18.80	18.84			
5	256QAM	12	0	19.50	19.58	19.59		19	5
5	256QAM	12	7	19.57	19.57	19.55			
5	256QAM	12	13	19.76	18.80	18.84		19	5
5	256QAM	25	0	19.51	19.47	19.49			
Channel 7701.5 7707.5 7714.5									
3	QPSK	1	0	24.12	24.21	24.17			
3	QPSK	1	14	24.06	24.20	24.08		25	0
3	QPSK	8	0	24.07	24.27	24.10			
3	QPSK	8	7	24.33	24.05	24.24		25	0
3	QPSK	8	7	24.23	24.01	24.20			
3	16QAM	1	0	24.00	24.30	24.00			
3	16QAM	1	8	24.10	24.04	24.11		25	0
3	16QAM	1	14	24.08	24.30	24.07			
3	16QAM	8	0	23.44	23.43	23.56			
3	16QAM	8	4	23.61	23.43	23.43		25	0
3	16QAM	15	0	23.61	23.62	23.47			
3	64QAM	1	0	23.61	23.39	23.38			
3	64QAM	1	0	23.69	24.03	24.30		25	0
3	64QAM	8	0	24.08	24.02	24.17			
3	64QAM	1	14	24.23	23.94	24.10			
3	64QAM	8	0	23.74	23.73	23.78			
3	64QAM	8	4	23.83	23.81	23.64		25	0
3	64QAM	8	7	23.70	23.75	23.70			
3	64QAM	15	0	23.75	23.61	23.71			
3	256QAM	1	0	20.30	20.73	20.62			
3	256QAM	1	8	20.67	20.79	20.70		21	4
3	256QAM	1	14	20.67	20.55	20.53			
3	256QAM	8	0	20.65	20.65	20.52			
3	256QAM	8	4	20.60	20.73	20.65		21	4
3	256QAM	8	7	20.61	20.63	20.66			
3	256QAM	15	0	20.52	20.76	20.63			
Channel 25017 25065 25178									
1.4	QPSK	1	0	24.20	24.29	24.20			
1.4	QPSK	1	3	24.26	24.35	24.35			
1.4	QPSK	1	5	24.21	24.26	24.27		25	0
1.4	QPSK	3	0	24.31	24.33	24.30			
1.4	QPSK	3	1	24.32	24.30	24.37			
1.4	QPSK	3	3	24.27	24.29	24.30		25	0
1.4	QPSK	6	0	24.00	24.27	24.07			
1.4	16QAM	1	0	24.31	24.32	24.40			
1.4	16QAM	1	3	24.31	24.34	24.30		25	0
1.4	16QAM	1	5	24.22	24.31	24.34			
1.4	16QAM	3	0	24.08	24.17	24.17			
1.4	16QAM	3	1	24.06	24.10	24.18			
1.4	16QAM	6	0	24.05	24.14	24.20			
1.4	16QAM	6	0	23.73	23.65	23.79		25	0
1.4	64QAM	1	0	24.20	24.33	24.20			
1.4	64QAM	1	3	24.26	24.38	24.28			
1.4	64QAM	1	5	24.11	24.24	24.27		25	0
1.4	64QAM	3	0	24.24	24.11	24.31			
1.4	64QAM	3	1	24.13	24.20	24.29			
1.4	64QAM	3	3	24.13	24.21	24.28			
1.4	256QAM	1	0	20.62	20.79	20.60		25	0
1.4	256QAM	1	3	20.60	20.71	20.72			
1.4	256QAM	1	5	20.66	20.64	20.50		21	4
1.4	256QAM	3	0	20.64	20.71	20.50			
1.4	256QAM	3	1	20.76	20.51	20.69			
1.4	256QAM	3	3	20.76	20.49	20.62		21	4
1.4	256QAM	6	0	20.64	20.77	20.68			

Band 13 Ant1_Full Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel 762									
10	QPSK	1	0	22.69	22.71	22.69		24	0
10	QPSK	1	25	22.71	22.71	22.71			
10	QPSK	1	49	22.61	22.61	22.61			
10	QPSK	25	0	22.62	22.65	22.65		24	0
10	QPSK	25	12	22.61	22.61	22.61			
10	QPSK	25	25	22.13	22.13	22.13			
10	QPSK	50	0	22.46	22.46	22.46			
10	16QAM	1	0	22.12	22.12	22.12			
10	16QAM	1	25	22.43	22.43	22.43			
10	16QAM	1	49	22.10	22.10	22.10			
10	16QAM	25	0	21.54	21.54	21.54		23	1
10	16QAM	25	12	21.22	21.22	21.22			
10	16QAM	25	25	21.66	21.66	21.66			
10	16QAM	50	0	21.98	21.98	21.98			
10	64QAM	1	0	22.22	22.22	22.22			
10	64QAM	1	25	22.36	22.36	22.36		24	0
10	64QAM	1	49	22.26	22.26	22.26			
10	64QAM	25	0	21.50	21.50	21.50			
10	64QAM	25	12	21.21	21.21	21.21		23	1
10	64QAM	25	25	21.63	21.63	21.63			
10	64QAM	50	0	21.90	21.90	21.90			
10	256QAM	1	0	18.90	18.90	18.90			
10	256QAM	1	25	19.79	19.79	19.79		19	5
10	256QAM	1	49	18.84	18.84	18.84			
10	256QAM	25	0	18.50	18.50	18.50			
10	256QAM	25	12	18.50	18.50	18.50		19	5
10	256QAM	25	25	18.87	18.87	18.87			
10	256QAM	50	0	18.43	18.43	18.43			
Channel 23305 23320 23355									
5	QPSK	1	0	22.84	22.43	22.79			
5	QPSK	1	12	22.84	22.88	22.84		24	0
5	QPSK	1	24	22.78	22.78	22.47			
5	QPSK	12	0	22.40	22.45	22.65			
5	QPSK	12	7	22.43	22.22	22.64		24	0
5	QPSK	12	13	22.45	22.60	22.25			
5	QPSK	25	0	22.58	22.17	22.40			
5	16QAM	1	0	22.33	22.51	22.61			
5	16QAM	1	12	22.39	22.44	22.37		24	0
5	16QAM	1	24	22.42	22.57	22.61			
5	16QAM	12	0	21.30	21.42	21.79			
5	16QAM	12	7	21.52	21.48	21.82		23	1
5	16QAM	12	13	21.52	21.48	21.82			
5	16QAM	25	0	21.36	21.25	21.66			
5	64QAM	1	0	22.53	22.48	22.48			
5	64QAM	1	12	22.49	22.51	22.58		24	0
5	64QAM	1	24	22.56	22.58	22.41			
5	64QAM	12	0	22.43	22.19	22.64			
5	64QAM	12	7	22.57	22.29	22.61		23	1
5	64QAM	12	13	22.48	22.37	22.39			
5	64QAM	25	0	22.41	22.19	22.64			
5	256QAM	1	0	18.84					



Band 25 Ant1_Full Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.48	22.57	22.52	24	0		
20	QPSK	4	0	22.48	22.57	22.52				
20	QPSK	1	99	22.27	22.36	22.34				
20	QPSK	50	0	22.51	22.55	22.53				
20	QPSK	24	0	22.42	22.45	22.43	24	0		
20	QPSK	50	50	22.45	22.47	22.42				
20	QPSK	100	0	22.51	22.53	22.53				
20	HQAM	1	0	22.38	22.21	22.18	24	0		
20	HQAM	1	49	22.32	22.47	22.27				
20	HQAM	1	99	22.20	22.22	22.09				
20	HQAM	50	0	21.68	21.63	21.53				
20	HQAM	50	24	21.77	21.75	21.56			23	1
20	HQAM	50	50	21.98	21.82	21.82				
20	HQAM	100	0	21.71	21.72	21.54				
20	HQAM	1	0	22.38	22.36	22.31				
20	HQAM	1	49	22.28	22.24	22.23	24	0		
20	HQAM	1	99	22.16	22.18	22.04				
20	HQAM	50	0	21.90	21.88	21.74				
20	HQAM	50	24	21.94	21.86	21.78				
20	HQAM	50	50	21.98	21.91	21.84			23	1
20	HQAM	100	0	21.92	21.91	21.75				
20	256QAM	1	0	19.09	19.17	18.86				
20	256QAM	1	49	19.13	19.15	19.01			20	4
20	256QAM	1	99	18.77	18.98	18.80				
20	256QAM	50	0	19.05	19.05	18.85				
20	256QAM	50	24	19.02	19.09	18.95			20	4
20	256QAM	50	50	19.13	19.07	18.91				
20	256QAM	100	0	19.02	19.03	18.83				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.21	22.24	22.13	24	0		
15	QPSK	1	37	22.44	22.28	22.13				
15	QPSK	1	74	22.01	22.13	22.08				
15	QPSK	36	0	22.43	22.40	22.21				
15	QPSK	36	24	22.38	22.44	22.24				
15	QPSK	36	36	22.19	22.30	22.28	24	0		
15	QPSK	75	0	22.41	22.41	22.09				
15	HQAM	1	0	22.15	22.01	21.94	24	0		
15	HQAM	1	37	22.22	22.24	22.10				
15	HQAM	1	74	22.08	22.07	21.94				
15	HQAM	36	0	21.83	21.59	21.58			23	1
15	HQAM	36	20	21.89	21.59	21.48				
15	HQAM	36	36	21.96	21.62	21.65				
15	HQAM	75	0	21.98	21.58	21.48				
15	HQAM	1	0	22.25	22.23	22.15	24	0		
15	HQAM	1	49	22.08	22.13	22.10				
15	HQAM	1	74	22.08	22.13	22.10				
15	HQAM	36	0	21.80	21.67	21.47				
15	HQAM	36	20	21.70	21.68	21.58				
15	HQAM	36	36	21.75	21.75	21.78			23	1
15	HQAM	75	0	21.88	21.87	21.76				
15	HQAM	1	0	22.07	22.07	21.76				
15	HQAM	1	49	21.95	21.85	21.70				
15	HQAM	1	74	21.71	21.78	21.87			20	4
15	256QAM	1	0	18.76	18.76	18.76				
15	256QAM	1	49	18.90	18.92	18.76				
15	256QAM	1	74	18.71	18.78	18.87			20	4
15	256QAM	50	0	19.00	19.12	18.88				
15	256QAM	50	24	18.98	18.89	18.79			20	4
15	256QAM	50	50	18.98	18.89	18.79				
15	256QAM	100	0	18.96	18.84	18.81				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.28	22.52	22.28	24	0		
10	QPSK	1	49	22.28	22.42	22.17				
10	QPSK	1	99	22.22	22.19	22.11				
10	QPSK	26	0	22.25	22.21	22.21				
10	QPSK	12	0	22.28	22.28	22.16	24	0		
10	QPSK	26	26	22.21	22.21	22.27				
10	QPSK	50	0	22.48	22.28	22.26				
10	HQAM	1	0	22.28	22.28	22.08	24	0		
10	HQAM	1	49	22.23	22.27	22.18				
10	HQAM	1	99	22.08	22.08	21.99				
10	HQAM	26	0	21.61	21.59	21.40				
10	HQAM	26	12	21.58	21.70	21.48			23	1
10	HQAM	26	26	21.62	21.63	21.45				
10	HQAM	50	0	21.50	21.57	21.49				
10	HQAM	1	0	22.16	22.13	22.05	24	0		
10	HQAM	1	49	22.05	22.05	21.95				
10	HQAM	1	99	22.05	22.04	22.04				
10	HQAM	26	0	21.65	21.63	21.63				
10	HQAM	26	12	21.68	21.62	21.62				
10	HQAM	26	26	21.71	21.70	21.79			23	1
10	HQAM	50	0	21.74	21.74	21.88				
10	256QAM	1	0	18.74	18.87	18.86				
10	256QAM	1	49	18.96	18.89	18.72			20	4
10	256QAM	1	99	18.84	18.86	18.89				
10	256QAM	26	0	18.91	18.94	18.82				
10	256QAM	26	12	18.91	18.94	18.82			20	4
10	256QAM	26	26	18.87	18.89	18.86				
10	256QAM	50	0	18.81	18.81	18.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.32	22.28	22.17	24	0		
5	QPSK	1	12	22.32	22.28	22.17				
5	QPSK	1	24	22.04	22.14	22.00				
5	QPSK	12	0	22.35	22.31	22.21				
5	QPSK	12	12	22.21	22.25	22.25	24	0		
5	QPSK	12	13	22.33	22.27	22.24				
5	QPSK	26	0	22.28	22.28	22.16				
5	HQAM	1	0	22.28	22.13	22.06	24	0		
5	HQAM	1	12	22.21	22.23	22.19				
5	HQAM	1	24	22.17	22.07	22.06				
5	HQAM	12	0	21.44	21.49	21.38				
5	HQAM	12	7	21.68	21.63	21.32			23	1
5	HQAM	12	13	21.41	21.38	21.40				
5	HQAM	26	0	21.62	21.60	21.32				
5	HQAM	1	0	22.16	22.17	22.16	24	0		
5	HQAM	1	12	22.02	22.02	22.08				
5	HQAM	1	24	22.09	22.16	22.13				
5	HQAM	12	0	21.85	21.83	21.53				
5	HQAM	12	7	21.68	21.74	21.62				
5	HQAM	12	13	21.70	21.75	21.82			23	1
5	HQAM	26	0	21.68	21.75	21.62				
5	256QAM	1	0	18.76	18.85	18.86				
5	256QAM	1	12	18.96	18.96	18.86			20	4
5	256QAM	1	24	18.83	18.87	18.84				
5	256QAM	12	0	18.97	18.96	18.81				
5	256QAM	12	7	18.95	19.10	18.72			20	4
5	256QAM	12	13	18.90	18.86	18.88				
5	256QAM	26	0	19.10	19.05	18.72				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.40	22.40	22.37	24	0		
3	QPSK	1	8	22.34	22.49	22.09				
3	QPSK	1	14	22.63	22.39	22.17				
3	QPSK	8	0	22.38	22.38	22.28				
3	QPSK	8	4	22.27	22.27	22.30				
3	QPSK	8	7	22.36	22.39	22.38	24	0		
3	QPSK	16	0	22.38	22.38	22.28				
3	HQAM	1	0	22.18	22.18	22.11	24	0		
3	HQAM	1	8	22.10	22.24	22.08				
3	HQAM	1	14	22.14	22.15	22.06				
3	HQAM	8	0	21.69	21.65	21.43			23	1
3	HQAM	8	4	21.69	21.60	21.41				
3	HQAM	8	7	21.49	21.48	21.37				
3	HQAM	16	0	21.68	21.60	21.44				



Band 66 Ant1_Full Power

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Tune-up (dB)	MRR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.46	22.56	22.54	24	0
20	QPSK	1	49	22.38	22.31	22.44		
20	QPSK	50	0	22.46	22.56	22.49		
20	QPSK	50	44	22.37	22.46	22.58		
20	QPSK	50	50	22.50	22.42	22.53	24	0
20	QPSK	100	0	22.45	22.55	22.50		
20	16QAM	1	49	22.47	22.59	22.43		
20	16QAM	1	0	22.52	22.24	22.41	24	0
20	16QAM	1	50	22.35	22.28	22.31		
20	16QAM	50	0	21.87	21.59	21.72		
20	16QAM	50	24	21.78	21.89	21.87	23	1
20	16QAM	50	50	21.88	21.85	21.73		
20	16QAM	100	0	21.72	21.87	21.88		
20	16QAM	1	0	22.35	22.44	22.48		
20	16QAM	1	49	22.49	22.40	22.44	24	0
20	16QAM	1	50	22.38	22.25	22.33		
20	16QAM	50	0	21.83	21.78	21.89		
20	16QAM	50	24	21.95	21.89	21.91	23	1
20	16QAM	50	50	21.90	21.86	21.93		
20	16QAM	100	0	21.92	21.86	21.89		
20	256QAM	1	0	18.56	18.67	18.75		
20	256QAM	1	49	18.65	18.49	18.54	20	4
20	256QAM	1	50	18.34	18.28	18.63		
20	256QAM	50	0	18.46	18.35	18.48		
20	256QAM	50	24	18.28	18.50	18.52	20	4
20	256QAM	50	50	18.57	18.64	18.61		
20	256QAM	100	0	18.42	18.61	18.73		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.33	22.36	22.36	24	0
15	QPSK	1	47	22.28	22.18	22.39		
15	QPSK	1	74	22.19	22.07	22.27		
15	QPSK	36	0	22.27	22.40	22.27		
15	QPSK	36	30	22.24	22.41	22.44		
15	QPSK	36	39	22.23	22.34	22.45	24	0
15	QPSK	75	0	22.25	22.41	22.30		
15	16QAM	1	0	22.20	22.20	22.19		
15	16QAM	1	37	22.26	22.39	22.24	24	0
15	16QAM	1	74	22.20	22.20	22.28		
15	16QAM	36	0	21.48	21.57	21.59		
15	16QAM	36	30	21.53	21.46	21.52	23	1
15	16QAM	36	39	21.47	21.42	21.48		
15	16QAM	75	0	21.58	21.42	21.58		
15	16QAM	1	0	22.26	22.39	22.21		
15	16QAM	1	37	22.22	22.35	22.27	24	0
15	16QAM	1	74	22.24	22.10	22.14		
15	16QAM	36	0	21.72	21.55	21.76		
15	16QAM	36	30	21.75	21.65	21.87	23	1
15	16QAM	36	39	21.75	21.53	21.74		
15	16QAM	75	0	21.87	21.73	21.86		
15	256QAM	1	0	18.38	18.43	18.49		
15	256QAM	1	37	18.10	18.30	18.49	20	4
15	256QAM	1	74	18.24	18.50	18.40		
15	256QAM	36	0	18.37	18.47	18.46		
15	256QAM	36	30	18.19	18.43	18.47	20	4
15	256QAM	36	39	18.36	18.48	18.49		
15	256QAM	75	0	18.19	18.53	18.45		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.23	22.46	22.45	24	0
10	QPSK	1	49	22.28	22.30	22.38		
10	QPSK	26	0	22.27	22.29	22.38		
10	QPSK	26	12	22.11	22.27	22.28		
10	QPSK	26	25	22.35	22.28	22.49	24	0
10	16QAM	1	0	22.36	22.49	22.25		
10	16QAM	1	49	22.35	22.11	22.37		
10	16QAM	26	0	21.82	21.49	21.60	24	0
10	16QAM	26	12	21.57	21.58	21.46		
10	16QAM	26	25	21.48	21.48	21.48	23	1
10	16QAM	50	0	21.57	21.45	21.50		
10	16QAM	1	0	22.18	22.18	22.28	24	0
10	16QAM	1	49	22.25	22.25	22.29		
10	16QAM	1	49	22.27	22.15	22.14		
10	16QAM	26	0	21.81	21.61	21.79	23	1
10	16QAM	26	12	21.92	21.65	21.87		
10	16QAM	26	25	21.84	21.75	21.81		
10	16QAM	50	0	21.73	21.82	21.74		
10	256QAM	1	0	18.44	18.35	18.36		
10	256QAM	1	25	18.44	18.38	18.33	20	4
10	256QAM	1	49	18.19	18.05	18.36		
10	256QAM	26	0	18.35	18.45	18.34		
10	256QAM	26	12	18.31	18.55	18.45	20	4
10	256QAM	26	25	18.40	18.38	18.50		
10	256QAM	50	0	18.41	18.30	18.30		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.23	22.38	22.33	24	0
5	QPSK	1	12	22.45	22.41	22.33		
5	QPSK	1	24	22.25	22.15	22.38		
5	QPSK	12	0	22.36	22.37	22.38		
5	QPSK	12	7	22.18	22.27	22.38	24	0
5	QPSK	12	13	22.35	22.24	22.38		
5	QPSK	25	0	22.35	22.28	22.31		
5	16QAM	1	0	22.34	22.20	22.30		
5	16QAM	1	12	22.42	22.06	22.38	24	0
5	16QAM	1	24	22.34	22.09	22.27		
5	16QAM	12	0	21.45	21.51	21.64		
5	16QAM	12	7	21.82	21.82	21.52	23	1
5	16QAM	12	13	21.58	21.40	21.56		
5	16QAM	25	0	21.48	21.60	21.43		
5	16QAM	1	0	22.29	22.21	22.34	24	0
5	16QAM	1	12	22.44	22.25	22.36		
5	16QAM	1	24	22.17	22.18	22.11		
5	16QAM	12	0	21.79	21.82	21.72		
5	16QAM	12	7	21.90	21.70	21.71	23	1
5	16QAM	12	13	21.78	21.78	21.86		
5	16QAM	25	0	21.81	21.67	21.85		
5	256QAM	1	0	18.51	18.32	18.39		
5	256QAM	1	12	18.52	18.20	18.47	20	4
5	256QAM	1	24	18.22	18.08	18.40		
5	256QAM	12	0	18.36	18.45	18.22		
5	256QAM	12	7	18.18	18.54	18.41	20	4
5	256QAM	12	13	18.35	18.32	18.49		
5	256QAM	25	0	18.23	18.42	18.29		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.33	22.48	22.38	24	0
3	QPSK	1	8	22.41	22.33	22.34		
3	QPSK	1	14	22.35	22.07	22.22		
3	QPSK	8	0	22.36	22.37	22.38		
3	QPSK	8	4	22.19	22.27	22.38	24	0
3	QPSK	8	7	22.32	22.20	22.29		
3	QPSK	15	0	22.34	22.28	22.38		
3	16QAM	1	0	22.30	22.20	22.31		
3	16QAM	1	8	22.45	22.07	22.15	24	0
3	16QAM	1	14	22.42	22.08	22.21		
3	16QAM	8	0	21.53	21.44	21.57		
3	16QAM	8	4	21.71	21.52	21.61	23	1
3	16QAM	8	7	21.56	21.41	21.56		
3	16QAM	15	0	21.68	21.43	21.64		
3	16QAM	1	0	22.12	22.28	22.40	24	0
3	16QAM	1	8	22.46	22.31	22.17		
3	16QAM	1	14	22.14	22.18	22.24		
3	16QAM	8	0	21.68	21.82	21.81		
3	16QAM	8	4	21.87	21.83	21.78	23	1
3	16QAM	8	7	21.80	21.74	21.76		
3	256QAM	1	0	21.71	21.67	21.79		
3	256QAM	1	0	18.48	18.46	18.47		
3	256QAM	1	8	18.24	18.11	18.42	20	4
3	256QAM	1	14	18.18	18.06	18.41		
3	256QAM	1	15	18.30	18.51	18.29		
3	256QAM	8	4	18.29	18.40	18.53	20	4
3	256QAM	8	7	18.09	18.47	18.48		
3	256QAM	15	0	18.31	18.43	18.44		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.24	22.41	22.38	24	0
1.4	QPSK	1	3	22.27	22.18	22.20		
1.4	QPSK	1	5	22.08	22.07	22.18		
1.4	QPSK	3	0	22.22	22.11	22.18		
1.4	QPSK	3	1	22.32	22.19	22.21		
1.4	QPSK	3	3	22.35	22.14	22.35	24	0
1.4</								



Band 48 Ant2_Full Power

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.30	22.46	22.50	22.33	24	0
20	QPSK	1	49	22.46	22.32	22.48	22.29		
20	QPSK	1	99	22.37	22.31	22.46	22.40		
20	QPSK	50	0	21.46	21.38	21.44	21.41		
20	QPSK	50	24	21.33	21.42	21.49	21.43	23	1
20	QPSK	50	50	21.57	21.41	21.58	21.45		
20	QPSK	100	0	21.28	21.44	21.46	21.38		
20	16QAM	1	0	21.32	21.44	21.44	21.23		
20	16QAM	1	49	21.52	21.50	21.53	21.48	23	1
20	16QAM	1	99	21.44	21.31	21.50	21.44		
20	16QAM	50	0	20.33	20.47	20.46	20.45		
20	16QAM	50	24	20.42	20.44	20.49	20.49		
20	16QAM	50	50	20.49	20.57	20.57	20.57	22	2
20	16QAM	100	0	20.48	20.39	20.47	20.40		
20	64QAM	1	0	20.34	20.33	20.48	20.48		
20	64QAM	1	49	20.23	20.29	20.42	20.38		
20	64QAM	1	99	20.42	20.34	20.41	20.34	22	2
20	64QAM	50	0	19.23	19.23	19.35	19.20		
20	64QAM	50	24	19.31	19.35	19.44	19.40		
20	64QAM	50	50	19.51	19.54	19.53	19.55		
20	64QAM	100	0	19.25	19.29	19.37	19.36	21	3
20	256QAM	1	0	17.33	17.24	17.39	17.28		
20	256QAM	1	49	17.46	17.53	17.51	17.37		
20	256QAM	1	99	17.31	17.38	17.41	17.28		
20	256QAM	50	0	17.36	17.35	17.45	17.27	19	5
20	256QAM	50	24	17.25	17.34	17.46	17.28		
20	256QAM	50	50	17.52	17.51	17.55	17.33		
20	256QAM	100	0	17.38	17.42	17.43	17.40		
Channel				55315	55820	56180	56685		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.15	22.38	22.39	22.18	24	0
15	QPSK	1	37	22.32	22.33	22.32	22.21		
15	QPSK	1	74	22.28	22.19	22.27	22.33		
15	QPSK	36	0	21.25	21.23	21.43	21.36		
15	QPSK	36	20	21.19	21.31	21.40	21.27	23	1
15	QPSK	36	39	21.43	21.22	21.50	21.34		
15	QPSK	75	0	21.20	21.44	21.35	21.31		
15	16QAM	1	0	21.22	21.29	21.23	21.11		
15	16QAM	1	37	21.53	21.50	21.31	21.34	23	1
15	16QAM	1	74	21.23	21.26	21.38	21.31		
15	16QAM	36	0	20.15	20.38	20.30	20.25		
15	16QAM	36	20	20.40	20.23	20.31	20.27		
15	16QAM	36	39	20.35	20.49	20.56	20.47	22	2
15	16QAM	75	0	20.28	20.23	20.44	20.26		
15	64QAM	1	0	20.26	20.15	20.32	20.32		
15	64QAM	1	37	20.06	20.13	20.27	20.36		
15	64QAM	1	74	20.41	20.25	20.32	20.26	22	2
15	64QAM	36	0	19.03	19.11	19.25	19.09		
15	64QAM	36	20	19.17	19.16	19.43	19.37		
15	64QAM	36	39	19.30	19.39	19.44	19.50		
15	64QAM	75	0	19.25	19.29	19.33	19.36	21	3
15	256QAM	1	0	17.26	17.18	17.39	17.17		
15	256QAM	1	37	17.40	17.50	17.52	17.30		
15	256QAM	1	74	17.17	17.24	17.34	17.15		
15	256QAM	36	0	17.28	17.15	17.28	17.25	19	5
15	256QAM	36	20	17.08	17.17	17.36	17.16		
15	256QAM	36	39	17.51	17.30	17.43	17.34		
15	256QAM	75	0	17.33	17.29	17.28	17.21		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.10	22.28	22.30	22.11	24	0
10	QPSK	1	25	22.31	22.33	22.41	22.11		
10	QPSK	1	49	22.21	22.31	22.32	22.41		
10	QPSK	25	0	21.30	21.28	21.33	21.24		
10	QPSK	25	12	21.19	21.32	21.48	21.25	23	1
10	QPSK	25	25	21.53	21.36	21.39	21.35		
10	QPSK	50	0	21.21	21.35	21.42	21.30		
10	16QAM	1	0	21.28	21.31	21.34	21.15		
10	16QAM	1	25	21.40	21.49	21.50	21.29	23	1
10	16QAM	1	49	21.34	21.27	21.49	21.45		
10	16QAM	25	0	20.27	20.33	20.32	20.27		
10	16QAM	25	12	20.35	20.35	20.33	20.38		
10	16QAM	25	25	20.50	20.50	20.41	20.43	22	2
10	16QAM	50	0	20.40	20.36	20.40	20.26		
10	64QAM	1	0	20.13	20.34	20.50	20.45		
10	64QAM	1	25	20.19	20.08	20.28	20.18		
10	64QAM	1	49	20.28	20.34	20.31	20.25	22	2
10	64QAM	25	0	19.21	19.20	19.37	19.01		
10	64QAM	25	12	19.14	19.20	19.44	19.39		
10	64QAM	25	25	19.34	19.47	19.46	19.48		
10	64QAM	50	0	19.24	19.13	19.23	19.20	21	3
10	256QAM	1	0	17.18	17.21	17.19	17.25		
10	256QAM	1	25	17.47	17.52	17.51	17.15		
10	256QAM	1	49	17.10	17.17	17.39	17.27		
10	256QAM	25	0	17.25	17.34	17.32	17.11	19	5
10	256QAM	25	12	17.09	17.34	17.34	17.20		
10	256QAM	25	25	17.53	17.46	17.46	17.12		
10	256QAM	50	0	17.30	17.38	17.35	17.38		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.26	22.26	22.44	22.19	24	0
5	QPSK	1	12	22.27	22.19	22.35	22.24		
5	QPSK	1	24	22.34	22.12	22.39	22.29		
5	QPSK	12	0	21.35	21.37	21.35	21.26		
5	QPSK	12	7	21.27	21.43	21.39	21.26	23	1
5	QPSK	12	13	21.56	21.43	21.54	21.25		
5	QPSK	25	0	21.25	21.43	21.38	21.32		
5	16QAM	1	0	21.10	21.39	21.36	21.21		
5	16QAM	1	12	21.42	21.47	21.32	21.47	23	1
5	16QAM	1	24	21.38	21.12	21.50	21.24		
5	16QAM	12	0	20.35	20.43	20.29	20.41		
5	16QAM	12	7	20.29	20.23	20.37	20.28		
5	16QAM	12	13	20.29	20.56	20.46	20.36	22	2
5	16QAM	25	0	20.30	20.34	20.42	20.34		
5	64QAM	1	0	20.22	20.23	20.31	20.30		
5	64QAM	1	12	20.18	20.09	20.21	20.40		
5	64QAM	1	24	20.41	20.27	20.31	20.14	22	2
5	64QAM	12	0	19.01	19.16	19.15	19.08		
5	64QAM	12	7	19.24	19.14	19.30	19.20		
5	64QAM	12	13	19.46	19.51	19.44	19.49		
5	64QAM	25	0	19.12	19.20	19.24	19.29	21	3
5	256QAM	1	0	17.13	17.06	17.24	17.16		
5	256QAM	1	12	17.43	17.54	17.33	17.20		
5	256QAM	1	24	17.23	17.23	17.35	17.27		
5	256QAM	12	0	17.32	17.19	17.41	17.11	19	5
5	256QAM	12	7	17.14	17.34	17.46	17.17		
5	256QAM	12	13	17.32	17.45	17.42	17.28		
5	256QAM	25	0	17.17	17.43	17.39	17.41		



Reduced Power Mode for WWAN

GSM850 Ant0 DS12 Standalone

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 1 Tx slot	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 2 Tx slots	29.72	29.46	29.37	30.00	23.72	23.46	23.37	24.00
GPRS 3 Tx slots	28.29	28.02	27.82	29.50	24.03	23.76	23.66	25.24
GPRS 4 Tx slots	26.57	26.32	26.18	27.50	23.57	23.32	23.18	24.50
EDGE 1 Tx slot	25.29	25.38	25.33	27.00	16.29	16.38	16.33	18.00
EDGE 2 Tx slots	23.54	23.76	23.74	25.00	17.54	17.76	17.74	18.00
EDGE 3 Tx slots	22.31	22.45	22.39	24.00	18.05	18.19	18.13	19.74
EDGE 4 Tx slots	20.21	20.43	20.30	22.00	17.21	17.43	17.30	18.00

GSM1900 Ant0 DS12 Standalone

GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50
GPRS 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50
GPRS 2 Tx slots	26.47	26.63	26.64	27.50	20.47	20.63	20.64	21.50
GPRS 3 Tx slots	25.42	25.61	25.23	26.50	21.16	21.35	20.97	22.24
GPRS 4 Tx slots	23.27	22.93	22.90	24.00	20.27	19.93	19.90	21.00
EDGE 1 Tx slot	25.18	25.27	25.16	26.50	16.18	16.27	16.16	17.50
EDGE 2 Tx slots	23.80	23.78	23.67	24.50	17.60	17.78	17.67	18.50
EDGE 3 Tx slots	22.48	22.66	22.56	23.50	18.22	18.40	18.30	19.24
EDGE 4 Tx slots	20.24	20.35	20.31	21.00	17.24	17.35	17.31	18.00

WCDMA II Ant0 DS12 Standalone

WCDMA IV Ant0 DS12 Standalone

WCDMA V Ant0 DS12 Standalone

Band TX Channel Rx Channel Frequency (MHz)	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		
	9662	9800	9938		1537	1638	1738		4357	4407	4458		
3GPP Rel 99	1032.4	1038	1047.5	25.00	1722.4	1723.3	1725.3	25.00	325.4	335.4	346.6	25.00	
3GPP Rel 99	AMR 12.2Kops	23.73	23.90	23.88	25.00	23.63	23.72	23.61	25.00	24.11	24.21	24.27	25.00
3GPP Rel 99	RM-C 12.2Kops	23.79	24.02	23.94	25.00	23.78	23.86	23.66	25.00	24.17	24.35	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	23.10	23.11	23.10	24.00	23.26	23.15	22.92	24.00	23.17	23.25	23.31	24.00
3GPP Rel 6	HSDPA Subtest-2	23.11	23.15	22.82	24.00	23.21	23.15	22.93	24.00	23.15	23.23	23.33	24.00
3GPP Rel 6	HSDPA Subtest-3	22.53	22.61	22.60	23.50	22.76	22.67	22.42	23.50	22.65	22.74	22.80	23.50
3GPP Rel 6	HSDPA Subtest-4	22.59	22.64	22.60	23.50	22.74	22.70	22.41	23.50	22.65	22.77	22.78	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.95	22.97	23.05	24.00	23.16	22.99	22.82	24.00	23.04	23.19	23.32	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.07	23.02	22.73	24.00	23.11	22.99	22.79	24.00	23.16	23.07	23.15	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.47	22.52	22.39	23.50	22.54	22.55	22.39	23.50	22.44	22.68	22.64	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.39	22.48	22.57	23.50	22.58	22.51	22.33	23.50	22.49	22.61	22.74	23.50
3GPP Rel 6	HSUPA Subtest-1	23.09	23.12	23.06	24.00	23.20	23.15	22.92	24.00	23.51	23.55	23.61	24.00
3GPP Rel 6	HSUPA Subtest-2	21.12	21.09	21.08	22.00	21.20	21.15	20.96	22.00	21.51	21.56	21.63	22.00
3GPP Rel 6	HSUPA Subtest-3	22.11	22.11	22.05	23.00	22.25	22.14	21.88	23.00	22.49	22.55	22.56	23.00
3GPP Rel 6	HSUPA Subtest-4	21.10	21.12	21.10	22.00	21.25	21.15	20.89	22.00	21.47	21.57	21.63	22.00
3GPP Rel 6	HSUPA Subtest-5	23.09	23.10	23.11	24.00	23.20	23.10	22.90	24.00	23.50	23.50	23.60	24.00



GSM850 Ant0 DS12 Simultaneous

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	169	251		128	169	251	
Frequency (MHz)	224.2	233.4	243.3	33.50	23.52	23.27	23.21	24.50
GSM 1 Tx slot	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 1 Tx slot	32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 2 Tx slots	29.72	29.46	29.37	30.00	23.72	23.46	23.37	24.00
GPRS 3 Tx slots	28.29	28.02	27.92	29.50	24.03	23.76	23.66	25.24
GPRS 4 Tx slots	26.57	26.32	26.18	27.50	23.57	23.32	23.18	24.50
EDGE 1 Tx slot	25.29	25.38	25.33	27.00	16.29	16.38	16.33	18.00
EDGE 2 Tx slots	23.54	23.76	23.74	25.00	17.54	17.76	17.74	19.00
EDGE 3 Tx slots	22.31	22.45	22.39	24.00	18.05	18.19	18.13	19.74
EDGE 4 Tx slots	20.21	20.43	20.30	22.00	17.21	17.43	17.30	19.00

GSM1900 Ant0 DS12 Simultaneous

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	18.50	18.80	19.09.8	21.50
GSM 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50
GPRS 1 Tx slot	30.48	30.35	30.29	30.50	21.48	21.35	21.29	21.50
GPRS 2 Tx slots	26.47	26.63	26.64	27.50	20.47	20.63	20.64	21.50
GPRS 3 Tx slots	25.42	25.61	25.23	26.50	21.16	21.35	20.97	22.24
GPRS 4 Tx slots	23.27	22.93	22.90	24.00	20.27	19.93	19.90	21.00
EDGE 1 Tx slot	25.18	25.27	25.16	26.50	16.18	16.27	16.16	17.50
EDGE 2 Tx slots	23.80	23.78	23.67	24.50	17.60	17.78	17.67	18.50
EDGE 3 Tx slots	22.48	22.66	22.56	23.50	18.22	18.40	18.30	19.24
EDGE 4 Tx slots	20.24	20.35	20.31	21.00	17.24	17.35	17.31	18.00

WCDMA II Ant0 DS12 Simultaneous

WCDMA IV Ant0 DS12 Simultaneous

WCDMA V Ant0 DS12 Simultaneous

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		
RX Channel	9662	9508	9583	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 12.2Kops	23.73	23.90	23.88	25.00	23.63	23.72	23.61	25.00	24.11	24.21	24.27	25.00
3GPP Rel 99	RMC 12.2Kops	23.79	24.02	23.94	25.00	23.78	23.88	23.66	25.00	24.17	24.35	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	23.10	23.11	23.10	24.00	23.26	23.15	22.92	24.00	23.17	23.25	23.31	24.00
3GPP Rel 6	HSDPA Subtest-2	23.11	23.15	22.82	24.00	23.21	23.15	22.93	24.00	23.15	23.23	23.33	24.00
3GPP Rel 6	HSDPA Subtest-3	22.53	22.61	22.60	23.50	22.76	22.67	22.42	23.50	22.65	22.74	22.80	23.50
3GPP Rel 6	HSDPA Subtest-4	22.59	22.64	22.60	23.50	22.74	22.70	22.41	23.50	22.65	22.77	22.78	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.95	22.97	23.05	24.00	23.16	22.99	22.82	24.00	23.04	23.19	23.32	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.07	23.02	22.73	24.00	23.11	22.99	22.79	24.00	23.16	23.07	23.15	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.47	22.52	22.39	23.50	22.54	22.55	22.39	23.50	22.44	22.68	22.64	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.39	22.48	22.57	23.50	22.58	22.51	22.33	23.50	22.49	22.61	22.74	23.50
3GPP Rel 6	HSUPA Subtest-1	23.09	23.12	23.08	24.00	23.20	23.15	22.92	24.00	23.51	23.55	23.61	24.00
3GPP Rel 6	HSUPA Subtest-2	21.12	21.09	21.08	22.00	21.20	21.15	20.96	22.00	21.51	21.56	21.63	22.00
3GPP Rel 6	HSUPA Subtest-3	22.11	22.11	22.05	23.00	22.25	22.14	21.98	23.00	22.49	22.56	22.56	23.00
3GPP Rel 6	HSUPA Subtest-4	21.10	21.12	21.10	22.00	21.25	21.15	20.89	22.00	21.47	21.57	21.63	22.00
3GPP Rel 6	HSUPA Subtest-5	23.09	23.10	23.11	24.00	23.20	23.10	22.90	24.00	23.50	23.50	23.60	24.00



Band 2 Ant0 DS12 Standalone

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Time-up (min)	APR (dB)
Channel								
				1860	1880	1900		
20	QPSK	1	0	23.02	22.10	22.73		
20	QPSK	1	48	22.89	22.87	22.86	24	0
20	QPSK	1	99	22.89	22.87	22.86		
20	QPSK	50	0	23.04	22.05	22.74		
20	QPSK	50	24	22.97	22.05	22.74		
20	QPSK	50	50	23.04	22.05	22.72		
20	QPSK	100	0	23.05	22.07	22.82		
20	QPSK	100	50	22.99	22.86	22.88		
20	16QAM	1	48	23.07	22.85	22.88	24	0
20	16QAM	1	99	22.75	22.71	22.77		
20	16QAM	50	0	22.24	22.24	22.19		
20	16QAM	50	24	22.31	22.23	22.20	24	0
20	16QAM	50	50	22.25	22.24	22.21		
20	16QAM	100	0	22.27	22.28	22.17		
20	16QAM	1	0	22.94	22.95	22.80		
20	16QAM	1	48	23.09	22.94	22.95	24	0
20	16QAM	1	99	22.90	22.90	22.84		
20	16QAM	50	0	22.40	22.41	22.29		
20	16QAM	50	24	22.49	22.48	22.38	24	0
20	16QAM	50	50	22.42	22.39	22.30		
20	16QAM	100	0	22.47	22.45	22.35		
20	16QAM	1	48	18.36	18.47	18.34		
20	16QAM	1	99	18.35	18.42	18.45	20	4
20	16QAM	50	0	19.27	18.16	18.13		
20	16QAM	50	24	19.30	18.25	18.20		
20	16QAM	50	50	18.47	18.43	18.05	20	4
20	16QAM	100	0	19.52	19.47	19.04		
20	16QAM	100	50	19.28	19.22	19.08		
Channel								
				1897.5	1899	1922.5		
15	QPSK	1	0	23.02	22.91	22.80		
15	QPSK	1	37	23.06	22.92	22.82	24	0
15	QPSK	1	74	22.92	22.88	22.89		
15	QPSK	36	0	23.08	22.84	22.84		
15	QPSK	36	25	23.06	23.09	22.98		
15	QPSK	36	39	23.05	22.96	22.89		
15	QPSK	75	0	23.01	22.95	22.88		
15	QPSK	75	0	22.86	22.86	22.83		
15	16QAM	1	37	22.98	22.89	22.87	24	0
15	16QAM	1	74	22.89	22.78	22.81		
15	16QAM	36	25	22.90	22.75	22.69		
15	16QAM	36	29	22.77	22.75	22.78	24	0
15	16QAM	75	0	22.28	22.24	22.25		
15	16QAM	1	0	22.93	22.87	22.88		
15	16QAM	1	37	22.90	22.88	22.84	24	0
15	16QAM	1	74	22.84	22.77	22.81		
15	16QAM	36	0	22.48	22.39	22.37		
15	16QAM	36	25	22.47	22.36	22.38	24	0
15	16QAM	36	39	22.41	22.42	22.43		
15	16QAM	75	0	22.45	22.43	22.44		
15	16QAM	1	37	18.61	18.35	18.27		
15	16QAM	1	74	18.27	18.34	18.36	20	4
15	16QAM	36	25	18.29	18.33	18.17		
15	16QAM	36	29	18.36	18.27	18.34		
15	16QAM	36	29	18.28	18.47	18.28	20	4
15	16QAM	36	39	18.38	18.47	18.28		
15	16QAM	75	0	18.48	18.44	18.37		
Channel								
				1869	1890	1925		
10	QPSK	1	0	23.07	22.94	22.87		
10	QPSK	1	25	22.93	22.88	22.91	24	0
10	QPSK	1	49	22.81	22.73	22.87		
10	QPSK	12	0	23.08	22.87	22.84		
10	QPSK	12	21	23.03	23.03	23.00		
10	QPSK	25	12	23.03	22.93	23.00		
10	QPSK	25	25	22.94	22.88	22.93	24	0
10	QPSK	36	0	22.96	22.96	22.98		
10	16QAM	1	0	22.86	22.84	22.89		
10	16QAM	1	24	22.87	22.85	22.83	24	0
10	16QAM	1	48	22.88	22.88	22.87		
10	16QAM	5	49	22.88	22.78	22.79		
10	16QAM	25	0	22.26	22.14	22.14		
10	16QAM	25	12	22.24	22.17	22.19	24	0
10	16QAM	36	0	22.17	22.11	22.14		
10	16QAM	36	24	22.23	22.15	22.18		
10	16QAM	50	0	22.19	22.15	22.16		
10	16QAM	1	0	22.96	22.82	22.81	24	0
10	16QAM	1	24	22.87	22.86	22.84		
10	16QAM	1	48	22.80	22.71	22.77		
10	16QAM	25	0	22.47	22.28	22.30		
10	16QAM	25	12	22.44	22.29	22.41	24	0
10	16QAM	25	25	22.37	22.30	22.32		
10	16QAM	50	0	22.38	22.35	22.35		
10	16QAM	50	0	18.38	18.48			



Band 14 Ant0 DS12 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power Hqs Ch / Freq	Time-up (sec)	MPE (dB)	MPE (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.75	23.75	23.75	24	0	
10	QPSK	1	48	23.32	23.32	23.32	23	1	
10	QPSK	25	0	22.75	22.75	22.75	23	1	
10	QPSK	25	48	22.32	22.32	22.32	23	1	
10	QPSK	50	0	22.27	22.27	22.27	23	1	
10	QPSK	50	48	21.84	21.84	21.84	23	1	
10	16QAM	1	24	22.79	22.79	22.79	23	1	
10	16QAM	1	48	22.37	22.37	22.37	23	1	
10	16QAM	1	72	21.93	21.93	21.93	22	2	
10	16QAM	25	12	21.88	21.88	21.88	23	1	
10	16QAM	25	24	21.43	21.43	21.43	23	1	
10	16QAM	50	0	21.42	21.42	21.42	23	1	
10	16QAM	50	48	20.99	20.99	20.99	23	1	
10	16QAM	50	96	20.56	20.56	20.56	23	1	
10	16QAM	50	144	20.13	20.13	20.13	23	1	
10	16QAM	50	192	19.70	19.70	19.70	20	4	
10	256QAM	1	48	19.59	19.59	19.59	20	4	
10	256QAM	25	12	19.17	19.17	19.17	20	4	
10	256QAM	25	24	18.74	18.74	18.74	20	4	
10	256QAM	50	0	18.32	18.32	18.32	20	4	
10	256QAM	50	48	17.89	17.89	17.89	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.30	23.30	23.30	24	0	
5	QPSK	1	24	23.30	23.30	23.30	24	0	
5	QPSK	12	0	22.88	22.88	22.88	24	0	
5	QPSK	12	24	22.88	22.88	22.88	24	0	
5	QPSK	25	0	22.45	22.45	22.45	23	1	
5	QPSK	25	24	22.45	22.45	22.45	23	1	
5	QPSK	50	0	22.03	22.03	22.03	23	1	
5	QPSK	50	48	21.60	21.60	21.60	23	1	
5	16QAM	1	12	22.48	22.48	22.48	23	1	
5	16QAM	1	24	22.06	22.06	22.06	23	1	
5	16QAM	12	0	21.64	21.64	21.64	22	2	
5	16QAM	12	24	21.64	21.64	21.64	22	2	
5	16QAM	25	0	21.21	21.21	21.21	23	1	
5	16QAM	25	24	21.21	21.21	21.21	23	1	
5	16QAM	50	0	20.79	20.79	20.79	23	1	
5	16QAM	50	48	20.36	20.36	20.36	23	1	
5	16QAM	50	96	19.94	19.94	19.94	20	4	
5	16QAM	50	144	19.51	19.51	19.51	20	4	
5	16QAM	50	192	19.09	19.09	19.09	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.93	22.93	22.93	24	0	
5	QPSK	1	24	22.93	22.93	22.93	24	0	
5	QPSK	12	0	22.51	22.51	22.51	24	0	
5	QPSK	12	24	22.51	22.51	22.51	24	0	
5	QPSK	25	0	22.09	22.09	22.09	23	1	
5	QPSK	25	24	22.09	22.09	22.09	23	1	
5	QPSK	50	0	21.67	21.67	21.67	23	1	
5	QPSK	50	48	21.25	21.25	21.25	23	1	
5	16QAM	1	12	21.82	21.82	21.82	23	1	
5	16QAM	1	24	21.40	21.40	21.40	23	1	
5	16QAM	12	0	20.98	20.98	20.98	22	2	
5	16QAM	12	24	20.98	20.98	20.98	22	2	
5	16QAM	25	0	20.56	20.56	20.56	23	1	
5	16QAM	25	24	20.56	20.56	20.56	23	1	
5	16QAM	50	0	20.14	20.14	20.14	23	1	
5	16QAM	50	48	19.72	19.72	19.72	23	1	
5	16QAM	50	96	19.30	19.30	19.30	20	4	
5	16QAM	50	144	18.88	18.88	18.88	20	4	
5	16QAM	50	192	18.46	18.46	18.46	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.51	22.51	22.51	24	0	
5	QPSK	1	24	22.51	22.51	22.51	24	0	
5	QPSK	12	0	22.09	22.09	22.09	24	0	
5	QPSK	12	24	22.09	22.09	22.09	24	0	
5	QPSK	25	0	21.67	21.67	21.67	23	1	
5	QPSK	25	24	21.67	21.67	21.67	23	1	
5	QPSK	50	0	21.25	21.25	21.25	23	1	
5	QPSK	50	48	20.83	20.83	20.83	23	1	
5	16QAM	1	12	21.40	21.40	21.40	23	1	
5	16QAM	1	24	20.98	20.98	20.98	23	1	
5	16QAM	12	0	20.56	20.56	20.56	22	2	
5	16QAM	12	24	20.56	20.56	20.56	22	2	
5	16QAM	25	0	20.14	20.14	20.14	23	1	
5	16QAM	25	24	20.14	20.14	20.14	23	1	
5	16QAM	50	0	19.72	19.72	19.72	23	1	
5	16QAM	50	48	19.30	19.30	19.30	20	4	
5	16QAM	50	96	18.88	18.88	18.88	20	4	
5	16QAM	50	144	18.46	18.46	18.46	20	4	
5	16QAM	50	192	18.04	18.04	18.04	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.10	22.10	22.10	24	0	
5	QPSK	1	24	22.10	22.10	22.10	24	0	
5	QPSK	12	0	21.68	21.68	21.68	24	0	
5	QPSK	12	24	21.68	21.68	21.68	24	0	
5	QPSK	25	0	21.26	21.26	21.26	23	1	
5	QPSK	25	24	21.26	21.26	21.26	23	1	
5	QPSK	50	0	20.84	20.84	20.84	23	1	
5	QPSK	50	48	20.42	20.42	20.42	23	1	
5	16QAM	1	12	20.99	20.99	20.99	23	1	
5	16QAM	1	24	20.57	20.57	20.57	23	1	
5	16QAM	12	0	20.15	20.15	20.15	22	2	
5	16QAM	12	24	20.15	20.15	20.15	22	2	
5	16QAM	25	0	19.73	19.73	19.73	23	1	
5	16QAM	25	24	19.73	19.73	19.73	23	1	
5	16QAM	50	0	19.31	19.31	19.31	23	1	
5	16QAM	50	48	18.89	18.89	18.89	20	4	
5	16QAM	50	96	18.47	18.47	18.47	20	4	
5	16QAM	50	144	18.05	18.05	18.05	20	4	
5	16QAM	50	192	17.63	17.63	17.63	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.68	21.68	21.68	24	0	
5	QPSK	1	24	21.68	21.68	21.68	24	0	
5	QPSK	12	0	21.26	21.26	21.26	24	0	
5	QPSK	12	24	21.26	21.26	21.26	24	0	
5	QPSK	25	0	20.84	20.84	20.84	23	1	
5	QPSK	25	24	20.84	20.84	20.84	23	1	
5	QPSK	50	0	20.42	20.42	20.42	23	1	
5	QPSK	50	48	20.00	20.00	20.00	23	1	
5	16QAM	1	12	20.57	20.57	20.57	23	1	
5	16QAM	1	24	20.15	20.15	20.15	23	1	
5	16QAM	12	0	19.73	19.73	19.73	22	2	
5	16QAM	12	24	19.73	19.73	19.73	22	2	
5	16QAM	25	0	19.31	19.31	19.31	23	1	
5	16QAM	25	24	19.31	19.31	19.31	23	1	
5	16QAM	50	0	18.89	18.89	18.89	23	1	
5	16QAM	50	48	18.47	18.47	18.47	20	4	
5	16QAM	50	96	18.05	18.05	18.05	20	4	
5	16QAM	50	144	17.63	17.63	17.63	20	4	
5	16QAM	50	192	17.21	17.21	17.21	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.26	21.26	21.26	24	0	
5	QPSK	1	24	21.26	21.26	21.26	24	0	
5	QPSK	12	0	20.84	20.84	20.84	24	0	
5	QPSK	12	24	20.84	20.84	20.84	24	0	
5	QPSK	25	0	20.42	20.42	20.42	23	1	
5	QPSK	25	24	20.42	20.42	20.42	23	1	
5	QPSK	50	0	20.00	20.00	20.00	23	1	
5	QPSK	50	48	19.58	19.58	19.58	23	1	
5	16QAM	1	12	20.15	20.15	20.15	23	1	
5	16QAM	1	24	19.73	19.73	19.73	23	1	
5	16QAM	12	0	19.31	19.31	19.31	22	2	
5	16QAM	12	24	19.31	19.31	19.31	22	2	
5	16QAM	25	0	18.89	18.89	18.89	23	1	
5	16QAM	25	24	18.89	18.89	18.89	23	1	
5	16QAM	50	0	18.47	18.47	18.47	23	1	
5	16QAM	50	48	18.05	18.05	18.05	20	4	
5	16QAM	50	96	17.63	17.63	17.63	20	4	
5	16QAM	50	144	17.21	17.21	17.21	20	4	
5	16QAM	50	192	16.79	16.79	16.79	20	4	
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.84	20.84	20.84	24	0	
5	QPSK	1	24	20.84	20.84	20.84	24	0	
5	QPSK	12	0	20.42	20.42	20.42	24	0	
5	QPSK	12	24	20.42	20.42	20.42	24	0	
5	QPSK	25	0	20.00	20.00	20.00	23	1	
5	QPSK	25	24	20.00	20.00	20.00	23	1	
5	QPSK	50	0	19.58	19.58	19.58	23	1	
5	QPSK	50	48	19.16	19.16	19.16	23	1	
5	16QAM	1	12	19.73	19.73	19.73	23	1	
5	16QAM	1	24	19.31	19.31	19.31	23	1	
5	16QAM	12	0	18.89	18.89	18.89	22	2	
5	16QAM	12	24	18.89	18.89	18.89	22	2	
5	16QAM	25	0	18.47	18.47	18.47	23	1	
5	16QAM	25	24	18.47	18.47	18.47	23	1	
5	16QAM	50	0	18.05	18.05	18.05	23	1	
5	16QAM	50	48	17.63	17.63	17.63	2		



Band 30 Ant0 DS12 Standalone													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MFR (dB)					
Channel													
Frequency (MHz)				2310									MFR (dB)
10	QPSK	1	0	22.75	22.75	22.75	24	0					
10	QPSK	1	26	22.73	22.73	22.73	24	0					
10	QPSK	1	49	22.71	22.71	22.71	24	0					
10	QPSK	25	0	21.77	21.77	21.77	23	1					
10	QPSK	25	26	21.75	21.75	21.75	23	1					
10	QPSK	25	26	21.70	21.70	21.70	23	1					
10	QPSK	50	0	21.65	21.65	21.65	23	1					
10	QPSK	50	0	22.52	22.52	22.52	23	1					
10	16QAM	1	26	22.12	22.12	22.12	24	0					
10	16QAM	1	49	22.10	22.10	22.10	24	0					
10	16QAM	1	72	22.08	22.08	22.08	24	0					
10	16QAM	25	12	20.76	20.76	20.76	22	2					
10	16QAM	25	35	20.74	20.74	20.74	22	2					
10	16QAM	50	0	20.70	20.70	20.70	22	2					
10	64QAM	1	0	21.89	21.89	21.89	22	2					
10	64QAM	1	26	21.86	21.86	21.86	22	2					
10	64QAM	25	0	20.71	20.71	20.71	21	3					
10	64QAM	25	12	20.74	20.74	20.74	21	3					
10	64QAM	25	35	20.70	20.70	20.70	21	3					
10	64QAM	50	0	20.69	20.69	20.69	21	3					
10	256QAM	1	0	17.99	17.99	17.99	19	5					
10	256QAM	1	49	17.97	17.97	17.97	19	5					
10	256QAM	25	0	17.88	17.88	17.88	19	5					
10	256QAM	25	12	17.75	17.75	17.75	19	5					
10	256QAM	25	35	17.68	17.68	17.68	19	5					
10	256QAM	50	0	17.61	17.61	17.61	19	5					
Channel													
Frequency (MHz)				27185	27110	27735	28095	28125	28155				MFR (dB)
5	QPSK	1	0	22.97	22.61	22.80	24	0					
5	QPSK	1	24	22.63	22.62	22.64	24	0					
5	QPSK	12	0	21.57	21.56	21.59	23	1					
5	QPSK	12	7	21.62	21.61	21.74	23	1					
5	QPSK	12	13	21.64	21.67	21.68	23	1					
5	16QAM	1	0	21.58	21.57	21.59	23	1					
5	16QAM	1	0	22.00	22.00	22.00	23	1					
5	16QAM	1	12	22.07	22.04	22.13	23	1					
5	16QAM	12	0	20.64	20.63	20.78	22	2					
5	16QAM	12	7	20.66	20.68	20.75	22	2					
5	16QAM	25	0	20.62	20.65	20.76	22	2					
5	16QAM	25	0	20.98	20.81	20.89	22	2					
5	64QAM	1	0	21.75	21.70	21.84	22	2					
5	64QAM	1	0	17.61	17.68	17.60	22	2					
5	64QAM	12	0	20.54	20.63	20.62	21	3					
5	64QAM	12	0	20.62	20.65	20.76	21	3					
5	64QAM	12	13	20.66	20.65	20.71	21	3					
5	64QAM	25	0	20.67	20.68	20.67	21	3					
5	256QAM	1	0	17.61	17.68	17.60	19	5					
5	256QAM	1	12	17.68	17.71	17.71	19	5					
5	256QAM	1	24	17.52	17.72	17.67	19	5					
5	256QAM	12	0	17.48	17.46	17.56	19	5					
5	256QAM	12	7	17.72	17.55	17.56	19	5					
5	256QAM	12	13	17.76	17.66	17.62	19	5					
5	256QAM	25	0	17.60	17.65	17.63	19	5					

Band 66 Ant0 DS12 Standalone													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MFR (dB)					
Channel													
Frequency (MHz)				1750	1746	1770						MFR (dB)	
20	QPSK	1	0	23.20	23.23	23.06	24	0					
20	QPSK	1	49	23.18	23.22	23.11	24	0					
20	QPSK	1	99	23.08	22.95	23.09	24	0					
20	QPSK	50	0	23.18	23.25	23.09	24	0					
20	QPSK	50	24	23.07	23.11	23.09	24	0					
20	QPSK	50	50	23.18	23.04	23.09	24	0					
20	QPSK	100	0	23.12	23.23	23.06	24	0					
20	16QAM	1	0	22.98	22.98	22.99	24	0					
20	16QAM	1	49	23.15	23.01	22.99	24	0					
20	16QAM	1	99	22.95	22.85	22.88	24	0					
20	16QAM	50	0	22.96	22.97	22.92	24	0					
20	16QAM	50	24	22.95	22.91	22.90	24	0					
20	16QAM	100	0	23.10	22.95	22.97	24	0					
20	16QAM	1	0	22.41	22.58	22.63	24	0					
20	64QAM	1	49	23.18	23.05	23.01	24	0					
20	64QAM	1	99	22.90	22.93	22.95	24	0					
20	64QAM	50	0	22.70	22.47	22.49	24	0					
20	64QAM	50	24	22.69	22.61	22.61	24	0					
20	64QAM	100	0	22.58	22.56	22.58	24	0					
20	64QAM	100	0	22.83	22.49	22.47	24	0					
20	256QAM	1	0	19.85	19.96	19.87	20	4					
20	256QAM	1	49	19.95	19.94	19.80	20	4					
20	256QAM	1	99	19.94	19.78	19.91	20	4					
20	256QAM	50	0	19.78	19.82	19.85	20	4					
20	256QAM	50	24	19.76	19.94	20.00	20	4					
20	256QAM	50	50	19.77	19.95	19.91	20	4					
20	256QAM	100	0	19.77	19.95	19.77	20	4					
Channel													
Frequency (MHz)				13047	13022	13087	13097	13097	13097				MFR (dB)
15	QPSK	1	0	23.08	23.22	22.91	24	0					
15	QPSK	1	37	23.19	23.19	23.14	24	0					
15	QPSK	1	74	22.92	22.81	22.82	24	0					
15	QPSK	36	0	23.03	23.06	22.89	24	0					
15	QPSK	36	29	22.99	23.13	22.88	24	0					
15	QPSK	36	39	23.14	22.88	22.96	24	0					
15	QPSK	75	0	23.10	23.09	22.95	24	0					
15	16QAM	1	0	22.98	23.10	22.83	24	0					
15	16QAM	1	37	22.96	22.95	22.94	24	0					
15	16QAM	1	74	22.83	22.73	22.82	24	0					
15	16QAM	36	0	22.43	22.12	22.12	24	0					
15	16QAM	36	29	22.33	22.12	22.18	24	0					
15	16QAM	36	39	22.97	22.97	22.97	24	0					
15	16QAM	75	0	22.38	22.21	22.29	24	0					
15	64QAM	1	0	22.95	23.00	22.82	24	0					
15	64QAM	1	37	22.95	22.96	22.90	24	0					
15	64QAM	1	74	22.92	22.74	22.85	24	0					
15	64QAM	36	0	22.51	22.27	22.30	24	0					
15	64QAM	36	29	22.54	22.54	22.54	24	0					
15	64QAM	36	39	22.41	22.42	22.53	24	0					
15	64QAM	75	0	22.41	22.31	22.41	24	0					
15	256QAM	1	0	19.85	19.78	19.79	20	4					
15	256QAM	1	37	19.98	19.92	19.92	20	4					
15	256QAM	1	74	19.84	19.81	19.84	20	4					
15	256QAM	36	0	19.85	19.85	19.85	20	4					
15	256QAM	36	29	19.82	19.95	19.85	20	4					
15	256QAM	36	39	19.95	19.91	19.95	20	4					
15	256QAM	75	0	19.87	19.92	19.83	20	4					
Channel													
Frequency (MHz)				17115	17145	17175	17175	17175	17175				MFR (dB)
10	QPSK	1	0	23.09	23.09	23.09	24	0					
10	QPSK	1	25	23.02	23.13	22.93	24	0					
10	QPSK	1	49	23.07	23.02	23.00	24	0					
10	QPSK	12	0	23.06	23.00	22.99	24	0					
10	QPSK	12	7	23.02	22.99	23.01	24	0					
10	QPSK	25	12	23.04	23.05	22.90	24	0					
10	QPSK	25	26	23.05	23.00	22.98	24	0					
10	16QAM	1	0	22.98	22.93	22.91	24	0					
10	16QAM	1	26	23.08	22.94	22.97	24	0					
10	16QAM	1	49	23.03	22.98	22.90	24	0					
10	16QAM	25	0	22.29	22.14	22.21	24	0					
10	16QAM	25	12	22.30	22.21	22.28	24	0					
10	16QAM	25	35	22.29	22.16	22.28	24	0					
10	64QAM	1	0	22.44	22.23	22.20	24	0					
10	64QAM	1	0	22.97	23.04	22.84	24	0					
10	64QAM	1	26	22.93	22.92	22.93	24	0					
10	64QAM	1	49	23.02	22.83	22.79	24	0					
10	64QAM	25	0	22.53	22.48	22.50	24	0					
10	64QAM	25	12	22.48	22.46	22.42	24	0					
10	64QAM	25	35	22.41	22.24	22.42	24	0					
10	256QAM	1	0	19.84	19.92	19.84	20	4					
10	256QAM	1	49	19.77	19.95	19.89	20	4					
10	256QAM	25	0	19.78	19.87	19.87	20	4					
10	256QAM	25	12	19.92	19.85	19.84	20	4					
10	256QAM	25	35	19.95	19.96	19.86	20	4					



Band 2 Ant0 2x4 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Max Ch. / Freq.	Power Min Ch. / Freq.	Power Max Ch. / Freq.	Turn-up time (min)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.02	23.00	23.03		
20	QPSK	1	49	22.98	22.98	22.99	24	0
20	QPSK	1	99	22.98	22.97	22.99		
20	QPSK	50	0	23.04	23.00	23.04		
20	QPSK	50	24	23.02	23.00	23.04	24	0
20	QPSK	50	50	23.04	23.00	23.04		
20	QPSK	100	0	23.02	23.00	23.02		
20	QPSK	100	24	22.99	22.98	22.99	24	0
20	HQAM	1	49	23.07	23.05	23.08	24	0
20	HQAM	1	99	22.75	22.71	22.77		
20	HQAM	50	0	22.24	22.24	22.29		
20	HQAM	50	24	22.31	22.29	22.30	24	0
20	HQAM	50	50	22.25	22.24	22.21		
20	HQAM	100	0	22.27	22.26	22.27		
20	HQAM	100	24	22.24	22.26	22.20	24	0
20	HQAM	100	50	22.30	22.24	22.25		
20	HQAM	50	0	22.40	22.41	22.39		
20	HQAM	50	24	22.46	22.46	22.50		
20	HQAM	50	50	22.42	22.39	22.40	24	0
20	2555GAM	1	49	19.35	19.42	19.45	20	4
20	2555GAM	1	99	19.27	19.16	19.13		
20	2555GAM	1	99	19.30	19.24	19.24		
20	2555GAM	100	0	19.47	19.43	19.05		
20	2555GAM	100	24	19.52	19.47	19.04	20	4
20	2555GAM	100	50	19.18	19.00	19.15		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.02	22.91	22.60		
15	QPSK	1	37	22.92	22.87	22.82	24	0
15	QPSK	1	74	22.92	22.88	22.89		
15	QPSK	36	0	23.06	22.94	22.64		
15	QPSK	36	36	23.00	22.90	22.68	24	0
15	QPSK	36	72	22.95	22.89	22.89		
15	QPSK	72	0	23.01	22.98	22.84		
15	HQAM	1	37	22.86	22.86	22.83	24	0
15	HQAM	1	37	22.98	22.89	22.87		
15	HQAM	36	0	22.28	22.28	22.24		
15	HQAM	36	24	22.20	22.20	22.19	24	0
15	HQAM	36	24	22.27	22.25	22.28		
15	HQAM	36	72	22.42	22.39	22.41		
15	HQAM	72	0	22.28	22.24	22.25		
15	HQAM	1	0	22.93	22.87	22.86		
15	HQAM	36	0	22.98	22.88	22.88	24	0
15	HQAM	1	74	22.84	22.77	22.51		
15	HQAM	36	0	22.46	22.39	22.37		
15	HQAM	36	36	22.46	22.43	22.43	24	0
15	HQAM	75	0	22.41	22.43	22.44		
15	2555GAM	1	37	19.29	19.34	19.35	20	4
15	2555GAM	1	74	19.39	19.33	19.34		
15	2555GAM	36	0	19.53	19.49	19.14		
15	2555GAM	36	24	19.38	19.47	19.33	20	4
15	2555GAM	75	0	19.26	19.47	19.26		
15	2555GAM	75	0	19.48	19.34	19.37		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.02	23.00	23.00		
10	QPSK	1	49	22.93	22.88	22.91	24	0
10	QPSK	1	49	22.91	22.77	22.87		
10	QPSK	12	0	23.05	23.03	23.03		
10	QPSK	12	13	23.03	23.00	23.00	24	0
10	QPSK	25	0	23.04	22.89	22.83		
10	HQAM	1	0	22.86	22.94	22.89		
10	HQAM	1	26	22.87	22.85	22.83	24	0
10	HQAM	1	26	22.98	22.97	22.95		
10	HQAM	12	0	22.26	22.17	22.19		
10	HQAM	12	13	22.25	22.14	22.14	24	0
10	HQAM	12	26	22.19	22.15	22.15		
10	HQAM	1	0	22.99	22.82	22.81		
10	HQAM	1	49	22.87	22.86	22.87	24	0
10	HQAM	1	49	22.80	22.71	22.77		
10	HQAM	25	0	22.47	22.29	22.31		
10	HQAM	25	12	22.37	22.35	22.32	24	0
10	2555GAM	1	49	19.38	19.38	19.34	20	4
10	2555GAM	1	49	19.34	19.36	19.36		
10	2555GAM	12	0	19.53	19.47	19.23		
10	2555GAM	12	13	19.46	19.38	19.28	20	4
10	2555GAM	25	0	19.34	19.40	19.31		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.01	23.04	23.00		
5	QPSK	1	24	22.98	22.87	22.84		
5	QPSK	12	0	23.04	23.00	23.00		
5	QPSK	12	7	23.03	23.00	23.00	24	0
5	QPSK	12	13	23.03	22.89	22.82		
5	QPSK	12	26	23.02	23.01	22.88	24	0
5	HQAM	1	0	23.03	22.99	22.85		
5	HQAM	1	12	23.03	22.99	22.81	24	0
5	HQAM	1	24	23.04	22.98	22.83		
5	HQAM	12	0	22.26	22.20	22.14		
5	HQAM	12	7	22.25	22.22	22.18	24	0
5	HQAM	12	13	22.25	22.18	22.18		
5	HQAM	25	0	22.28	22.18	22.18		
5	HQAM	1	0	22.91	22.95	22.84		
5	HQAM	1	12	23.02	22.91	22.81	24	0
5	HQAM	1	24	22.85	22.78	22.87		
5	HQAM	12	0	22.23	22.17	22.14		
5	HQAM	12	7	22.49	22.42	22.59	24	0
5	HQAM	12	13	22.37	22.34	22.29		
5	HQAM	25	0	22.46	22.28	22.27		
5	2555GAM	1	49	19.41	19.48	19.44	20	4
5	2555GAM	1	12	19.33	19.49	19.37		
5	2555GAM	1	24	19.29	19.16	19.30	20	4
5	2555GAM	12	0	19.46	19.40	19.42		
5	2555GAM	12	13	19.48	19.40	19.46	20	4
5	2555GAM	25	0	19.34	19.41	19.41		
Channel								
Frequency (MHz)								
3	QPSK	1	0	22.95	22.87	22.84		
3	QPSK	1	8	22.86	22.85	22.86	24	0
3	QPSK	1	14	22.73	22.70	22.70		
3	QPSK	8	0	23.04	23.04	23.07		
3	QPSK	8	4	22.91	22.83	22.82	24	0
3	QPSK	8	7	22.90	22.84	22.83		
3	HQAM	1	0	22.94	22.89	22.81		
3	HQAM	1	8	22.88	22.82	22.81	24	0
3	HQAM	1	14	22.78	22.75	22.84		
3	HQAM	8	0	22.29	22.23	22.11		
3	HQAM	8	4	22.31	22.20	22.17	24	0
3	HQAM	15	0	22.20	22.15	22.10		
3	HQAM	1	0	22.92	22.86	22.86		
3	HQAM	1	8	22.98	22.92	22.81	24	0
3	HQAM	1	14	22.76	22.70	22.69		
3	HQAM	8	0	22.46	22.43	22.43		
3	HQAM	8	4	22.30	22.28	22.34	24	0
3	HQAM	8	7	22.33	22.24	22.25		
3	HQAM	15	0	22.22	22.22	22.21		
3	2555GAM	1	8	19.40	19.42	19.40	20	4
3	2555GAM	1	8	19.43	19.48	19.41		
3	2555GAM	8	0	19.50	19.30	19.30		
3	2555GAM	8	4	19.43	19.36	19.41	20	4
3	2555GAM	15	0	19.37	19.37	19.38		
3	2555GAM	15	4	19.48	19.35	19.37	20	4
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	22.91	22.91	22.90		
1.4	QPSK	1	3	22.82	22.89	22.88		
1.4	QPSK	1	3	22.85	22.79	22.82	24	0
1.4	QPSK	3	0	23.06	23.04	23.05		
1.4	QPSK	3	1	22.99	22.93	22.94		
1.4	QPSK	3	3	22.92	22.86	22.80	24	0
1.4	QPSK	6	0	23.09	23.04	23.01		
1.4	HQAM	1	0	22.99	22.88	22.82		
1.4	HQAM	1	3	22.91	22.85	22.82	24	0
1.4	HQAM	1	3	22.78	22.75	22.79		
1.4	HQAM	3	0	22.74	22.69	22.68		
1.4	HQAM	3	1	22.71	22.66	22.69	24	0
1.4	HQAM	3	3	22.28	22.24	22.19		
1.4	HQAM	1	0	22.86	22.87	22.81		
1.4	HQAM	1	3	22.71	22.66	22.69	24	0
1.4	HQAM	1	3	22.68	22.59	22.59		
1.4	HQAM	3	0	22.49	22.47	22.33		
1.4	HQAM	3	1	22.49	22.47	22.33	24	0
1.4	HQAM	3	3	22.35				



Band 12 Ant0 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.10	22.96				
10	QPSK	1	25	22.92	23.05	22.96				
10	QPSK	1	49	23.12	23.13	23.11		24	0	
10	QPSK	25	0	23.04	23.10	23.08				
10	16QAM	25	0	23.14	23.07	23.10				
10	QPSK	25	25	23.14	23.08	22.99				
10	QPSK	50	0	22.96	23.13	23.08				
10	16QAM	50	0	22.99	23.04	23.01				
10	16QAM	1	25	23.04	23.00	23.10		24	0	
10	16QAM	25	49	23.08	23.06	23.10				
10	16QAM	25	0	23.02	23.03	23.05				
10	16QAM	25	12	22.45	22.38	22.46				
10	16QAM	25	25	22.49	22.47	22.52				
10	16QAM	50	0	22.41	22.37	22.38				
10	16QAM	1	0	22.88	22.87	22.91				
10	16QAM	1	25	23.04	23.12	23.15		24	0	
10	16QAM	1	49	23.08	23.06	23.13				
10	16QAM	25	0	22.52	22.53	22.59				
10	16QAM	25	12	22.63	22.57	22.60				
10	16QAM	25	25	22.64	22.57	22.70		24	0	
10	16QAM	50	0	22.61	22.59	22.60				
10	256QAM	1	0	18.44	18.61	18.41				
10	256QAM	1	25	18.46	18.54	18.45		20	4	
10	256QAM	1	49	18.53	18.53	18.58				
10	256QAM	12	0	18.42	18.49	18.47				
10	256QAM	25	12	18.47	18.54	18.58		20	4	
10	256QAM	25	25	18.52	18.43	18.40				
10	256QAM	50	0	18.43	18.43	18.40				
10	256QAM	25	0	18.65	18.65	18.65				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.80	22.83	22.77				
5	QPSK	1	25	22.82	22.86	22.81		24	0	
5	QPSK	1	49	22.93	23.08	23.13				
5	QPSK	12	0	22.84	22.89	22.89				
5	QPSK	12	7	22.89	22.83	22.85				
5	QPSK	12	13	22.95	22.87	22.79		24	0	
5	QPSK	25	0	22.82	22.74	22.80				
5	16QAM	1	0	22.85	22.78	22.93				
5	16QAM	1	12	22.82	22.87	23.00		24	0	
5	16QAM	1	25	22.81	22.88	23.06				
5	16QAM	12	0	22.24	22.16	22.38				
5	16QAM	12	7	22.24	22.40	22.32		24	0	
5	16QAM	12	13	22.33	22.27	22.43				
5	16QAM	25	0	22.27	22.17	22.25				
5	16QAM	1	0	22.72	22.81	22.98		24	0	
5	16QAM	1	25	22.76	22.86	23.06				
5	16QAM	1	49	22.82	22.82	23.02				
5	16QAM	12	0	22.30	22.38	23.05				
5	16QAM	12	0	22.48	22.38	22.42		24	0	
5	16QAM	12	7	22.59	22.39	22.48				
5	16QAM	12	13	22.65	22.50	22.48				
5	16QAM	25	0	22.43	22.52	22.80				
5	16QAM	25	0	22.81	22.80	22.85				
5	16QAM	25	12	18.41	18.51	18.58		20	4	
5	256QAM	1	24	18.44	18.48	18.59				
5	256QAM	12	0	18.43	18.49	18.43				
5	256QAM	12	7	18.43	18.49	18.51		20	4	
5	256QAM	12	13	18.46	18.45	18.34				
5	256QAM	25	0	18.43	18.43	18.48				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.82	22.89	22.81				
1.4	QPSK	1	3	23.06	23.00	23.15				
1.4	QPSK	1	5	22.90	22.85	23.07		24	0	
1.4	QPSK	3	0	22.96	23.03	23.17				
1.4	QPSK	3	1	22.97	23.04	23.16				
1.4	QPSK	3	3	22.97	23.00	23.12		24	0	
1.4	16QAM	3	0	22.86	23.08	23.15				
1.4	16QAM	1	0	22.94	23.14	23.18				
1.4	16QAM	1	3	22.88	23.05	23.17		24	0	
1.4	16QAM	1	6	22.93	23.03	23.13				
1.4	16QAM	3	0	22.76	22.81	22.91				
1.4	16QAM	3	1	22.77	22.78	22.89				
1.4	16QAM	3	2	22.73	22.73	22.81		24	0	
1.4	16QAM	6	0	22.39	22.48	22.58				
1.4	16QAM	1	0	22.92	22.84	23.12				
1.4	16QAM	1	3	22.81	22.87	23.10				
1.4	16QAM	1	5	22.83	22.81	23.03		24	0	
1.4	16QAM	1	8	22.85	22.83	23.05				
1.4	16QAM	3	0	22.87	22.90	23.04				
1.4	16QAM	3	3	22.86	22.88	23.01				
1.4	16QAM	6	0	22.80	22.86	22.70		24	0	
1.4	256QAM	1	0	18.37	18.58	18.38				
1.4	256QAM	1	3	18.48	18.61	18.53				
1.4	256QAM	1	5	18.57	18.53	18.50		20	4	
1.4	256QAM	1	8	18.35	18.62	18.55				
1.4	256QAM	3	1	18.85	18.67	18.49				
1.4	256QAM	3	3	18.51	18.56	18.56				
1.4	256QAM	3	5	18.37	18.54	18.50		20	4	

Band 13 Ant0 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	22.96	22.96				
10	QPSK	1	25	22.96	23.19	22.96		24	0	
10	QPSK	1	49	22.85	22.85	22.85				
10	QPSK	25	0	22.86	22.86	22.86				
10	QPSK	25	12	22.86	22.86	22.86				
10	QPSK	25	25	22.83	22.83	22.83		24	0	
10	QPSK	50	0	22.22	22.22	22.22				
10	16QAM	1	0	22.30	22.30	22.30				
10	16QAM	1	25	22.44	22.44	22.44				
10	16QAM	1	49	22.11	22.11	22.11				
10	16QAM	25	0	21.79	21.79	21.79				
10	16QAM	25	12	21.34	21.34	21.34		23	1	
10	16QAM	25	25	21.81	21.81	21.81				
10	16QAM	50	0	21.24	21.24	21.24				
10	16QAM	1	0	22.40	22.40	22.40				
10	16QAM	1	25	22.40	22.40	22.40		24	0	
10	16QAM	1	49	21.82	21.82	21.82				
10	16QAM	25	0	21.34	21.34	21.34				
10	16QAM	25	12	21.94	21.94	21.94		23	1	
10	16QAM	25	25	21.32	21.32	21.32				
10	16QAM	50	0	21.40	21.40	21.40				
10	256QAM	1	0	18.40	18.40	18.40				
10	256QAM	1	25	18.34	18.34	18.34		20	4	
10	256QAM	1	49	18.17	18.17	18.17				
10	256QAM	12	0	18.56	18.56	18.56				
10	256QAM	25	12	18.70	18.70	18.70		20	4	
10	256QAM	25	25	18.00	18.00	18.00				
10	256QAM	50	0	18.65	18.65	18.65				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.86	22.84	22.74				
5	QPSK	1	12	22.85	22.88	22.82		24	0	
5	QPSK	1	24	22.76	22.78	22.39				
5	QPSK	12	0	22.47	22.41	22.67				
5	QPSK	12	7	22.67	22.51	22.53		24	0	
5	QPSK	12	13	22.32	22.38	22.23				
5	QPSK	25	0	22.98	22.96	22.42				
5	QPSK	25	0	22.59	22.50	22.62				
5	16QAM	1	12	22.49	22.39	22.78		24	0	
5	16QAM	1	24	22.72	22.76	22.82				
5	16QAM	12	0	21.54	21.45	21.79				
5	16QAM	12	7	21.32	21.48	21.73		23	1	
5	16QAM	12	13	21.61	21.47	21.63				
5	16QAM	25	0	21.42	21.20	21.64				
5	16QAM	1	0	22.94	22.42	22.52		24	0	
5	16QAM	1	12	22.93	22.38	22.69				
5	16QAM	1	24	22.65	22.70	22.74				
5	16QAM	12	0	21.51	21.53	21.79				
5	16QAM	12	7	21.34	21.47	21.63		23	1	
5	16QAM	12	13	21.67	21.80	21.35				
5	16QAM	25	0	21.43	21.19	21.64				
5	16QAM	1	0	18.38	18.58	18.43				
5	16QAM	1	12	18.38	18.44	18.38		20	4	
5	256QAM	1	24	18.30	18.30	18.33				
5	256QAM	12	0	18.53	18.54	18.59				
5	256QAM	12	7	18.52	18.54	18.55		20	4	
5	256QAM	12	13	18.72	18.51	18.51				
5	256QAM	25	0	18.47	18.48	18.51				

Band 14 Ant0 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.70	23.70	23.70				



Band 25 Ant0 DS12 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power MdBm Ch./Freq.	Power MdBm Ch./Freq.	Power MdBm Ch./Freq.	Turn-up Time (min)	MRR (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.14	23.26	23.12			
20	QPSK	1	49	23.11	23.05	23.00	24	0	0
20	QPSK	1	98	23.01	23.05	23.00			
20	QPSK	50	0	23.15	23.24	23.16			
20	QPSK	50	24	23.14	23.18	23.13	24	0	0
20	QPSK	50	50	23.19	23.21	23.19			
20	QPSK	100	0	23.21	23.26	23.13			
20	QPSK	100	24	23.20	23.11	23.05	24	0	0
20	16QAM	1	49	23.18	23.15	23.21	24	0	0
20	16QAM	1	99	23.24	23.00	23.38			
20	16QAM	50	0	23.24	23.24	23.26			
20	16QAM	50	24	23.21	23.24	23.39	24	0	0
20	16QAM	50	50	23.22	22.46	23.43			
20	16QAM	100	0	23.22	22.48	23.43			
20	16QAM	100	24	23.25	23.12	23.05	24	0	0
20	8QAM	1	49	23.17	23.22	23.14	24	0	0
20	8QAM	1	99	23.29	23.09	23.07			
20	8QAM	50	0	23.22	22.61	22.57			
20	8QAM	50	24	23.29	22.71	22.58	24	0	0
20	8QAM	100	0	23.28	22.68	22.56			
20	25QAM	1	0	19.25	19.27	19.45	20	4	4
20	25QAM	1	49	19.25	19.65	19.65			
20	25QAM	1	99	19.45	19.55	19.43			
20	25QAM	50	0	19.23	19.56	19.53			
20	25QAM	50	24	19.43	19.45	19.56	20	4	4
20	25QAM	50	50	19.60	19.56	19.57			
20	25QAM	100	0	19.24	19.44	19.47			
20	25QAM	100	24	19.13	19.30	19.27	20	4	4
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.01	23.16	23.02	24	0	0
15	QPSK	1	74	23.09	23.09	22.98			
15	QPSK	36	0	23.03	23.04	23.09			
15	QPSK	36	24	23.09	23.12	23.16	24	0	0
15	QPSK	36	99	23.05	23.04	23.02			
15	QPSK	75	0	23.21	23.15	23.12			
15	16QAM	1	24	23.20	23.02	23.81	24	0	0
15	16QAM	1	37	23.18	23.09	23.16			
15	16QAM	1	74	23.08	23.08	23.02			
15	16QAM	36	0	23.23	23.27	23.26			
15	16QAM	36	24	23.28	23.29	23.32	24	0	0
15	16QAM	36	99	23.23	23.28	23.32			
15	16QAM	75	0	23.24	23.40	23.28			
15	8QAM	1	0	23.24	23.21	23.29	24	0	0
15	8QAM	1	49	23.14	23.13	23.17			
15	8QAM	1	74	23.73	23.25	23.91			
15	8QAM	36	0	23.23	23.27	23.27			
15	8QAM	36	24	23.28	23.23	23.48	24	0	0
15	8QAM	36	99	23.22	23.23	23.48			
15	8QAM	75	0	23.45	23.55	23.37			
15	25QAM	1	0	19.25	19.25	19.45	20	4	4
15	25QAM	1	37	19.25	19.64	19.48			
15	25QAM	1	74	19.34	19.47	19.49			
15	25QAM	36	0	19.26	19.48	19.50			
15	25QAM	36	24	19.31	19.45	19.52	20	4	4
15	25QAM	36	99	19.29	19.46	19.57			
15	25QAM	75	0	19.29	19.46	19.57			
15	25QAM	75	24	19.21	19.24	19.43	20	4	4
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.06	23.06	23.06			
10	QPSK	1	49	23.06	23.08	23.04	24	0	0
10	QPSK	25	0	23.28	23.14	23.17			
10	QPSK	25	25	23.03	23.12	23.03	24	0	0
10	QPSK	50	0	23.22	23.02	23.02			
10	16QAM	1	0	23.24	23.05	23.09	24	0	0
10	16QAM	1	25	23.17	23.07	23.20			
10	16QAM	1	50	23.08	23.08	23.02			
10	16QAM	25	0	23.31	23.31	23.24			
10	16QAM	25	12	23.28	23.48	23.30	24	0	0
10	16QAM	25	25	23.28	23.48	23.30			
10	16QAM	50	0	23.28	23.48	23.30			
10	8QAM	1	0	23.29	23.06	23.02	24	0	0
10	8QAM	1	25	23.23	23.15	23.15			
10	8QAM	1	49	23.78	23.01	23.98			
10	8QAM	25	0	23.46	23.22	23.52	24	0	0
10	8QAM	25	25	23.48	23.22	23.50			
10	8QAM	50	0	23.59	23.22	23.42			
10	25QAM	1	0	19.25	19.63	19.59	20	4	4
10	25QAM	1	25	19.25	19.47	19.62			
10	25QAM	1	49	19.30	19.41	19.47			
10	25QAM	25	0	19.25	19.63	19.59			
10	25QAM	25	12	19.43	19.58	19.60	20	4	4
10	25QAM	25	25	19.28	19.50	19.64			
10	25QAM	50	0	19.28	19.50	19.64			
10	25QAM	50	12	19.25	19.58	19.64	20	4	4
10	25QAM	50	25	19.29	19.58	19.64			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.07	23.13	23.13			
5	QPSK	1	14	23.07	23.09	23.00	24	0	0
5	QPSK	1	28	23.02	23.03	23.07			
5	QPSK	12	13	23.06	23.03	23.07	24	0	0
5	QPSK	25	0	23.26	23.03	23.07			
5	16QAM	1	0	23.23	23.03	23.01	24	0	0
5	16QAM	1	12	23.10	23.03	23.20			
5	16QAM	1	25	23.26	23.07	23.08			
5	16QAM	12	0	23.40	23.28	23.26	24	0	0
5	16QAM	12	7	23.38	23.44	23.23			
5	16QAM	12	13	23.27	23.32	23.39	24	0	0
5	16QAM	25	0	23.47	23.37	23.28			
5	8QAM	1	0	23.27	23.25	23.25	24	0	0
5	8QAM	1	7	23.27	23.03	23.00			
5	8QAM	1	14	23.72	23.03	23.90			
5	8QAM	12	0	23.22	23.22	23.21			
5	8QAM	12	4	23.43	23.25	23.40	24	0	0
5	8QAM	12	13	23.48	23.03	23.48			
5	8QAM	25	0	23.24	23.22	23.40			
5	25QAM	1	0	19.29	19.63	19.57	20	4	4
5	25QAM	1	12	19.29	19.62	19.48			
5	25QAM	1	24	19.39	19.51	19.37			
5	25QAM	12	0	19.29	19.63	19.59			
5	25QAM	12	7	19.35	19.62	19.63	20	4	4
5	25QAM	12	13	19.39	19.51	19.57			
5	25QAM	12	25	19.25	19.58	19.51			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.23	23.25	23.24			
3	QPSK	1	8	23.26	23.06	23.26	24	0	0
3	QPSK	1	14	23.75	23.21	23.26			
3	QPSK	1	28	23.10	23.14	23.05	24	0	0
3	QPSK	8	4	23.27	23.06	23.02			
3	QPSK	8	7	23.29	23.09	23.03	24	0	0
3	QPSK	8	14	23.18	23.05	23.01			
3	16QAM	1	0	23.78	23.09	23.79			
3	16QAM	1	8	23.26	23.07	23.90	24	0	0
3	16QAM	1	14	23.24	23.76	23.69			
3	16QAM	8	0	23.23	23.34	23.28			
3	16QAM	8	4	23.24	23.46	23.19	24	0	0
3	16QAM	8	7	23.28	23.29	23.20			
3	16QAM	15	0	23.25	23.25	23.18			
3	8QAM	1	0	23.29	23.26	23.80	24	0	0
3	8QAM	1	8	23.27	23.03	23.92			
3	8QAM	1	14	23.66	23.70	23.87			
3	8QAM	8	0	23.24	23.27	23.38			
3	8QAM	8	7	23.23	23.54	23.32	24	0	0
3	8QAM	15	0	23.49	23.98	23.63			
3	25QAM	1	0	19.23	19.76	19.45	20	4	4
3	25QAM	1	8	19.44	19.52	19.48			
3	25QAM	1	14	19.39	19.48	19.30			
3	25QAM	8	0	19.24	19.55	19.45			
3	25QAM	8	7	19.48	19.50	19.67	20	4	4
3	25QAM	8	14	19.49	19.64	19.63			
3	25QAM	15	0	19.21	19.65	19.47			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.98	23.17	22.88	24	0	0
1.4	QPSK	1	3	22.92	23.02	23.05			
1.4	QPSK	1	6	22.71	22.76	22.62			
1.4	QPSK	1	9	23.21	23.09	23.06	24	0	0
1.4	QPSK	3	1	23.04	23.06	23.05			
1.4	QPSK	3	1	23.04	23.06	23.05			
1.4	QPSK	3	1	23.04	23.12	23.25	24	0	0
1.4	QPSK	3	1	23.09	23.13	23.07			
1.4	16QAM	1	0	23.06	23.06	23.31			
1.4	16QAM	3	1	23.00	23.12	23.28	24	0	0
1.4	16QAM	3	1	23.08	23.07	23.00			
1.4	16QAM	3	1	23.80	23.70	23.04			
1.4	16QAM	3	1	23.82	23.85	23.00			
1.4	16QAM	6	0	23.21	23.15	23.04	24	0	0
1.4	8QAM	1	0	23.25	23.25	23.20			
1.4	8QAM	1	6	23.17	23.28	23.14	24	0	0
1.4	8QAM	1	9	23.19	23.37	23.32			
1.4	8QAM	3	1	23.13	23.14	23.28			



Band 71 Ant0 DSI2 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High / Freq.	Turn-up limit (dBm)	APPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.78	22.83	22.81		
20	QPSK	1	49	22.58	22.73	22.71	24	0
20	QPSK	1	99	22.52	22.51	22.53		
20	QPSK	50	0	22.50	22.66	22.65		
20	QPSK	50	24	22.41	22.52	22.51	24	0
20	QPSK	50	50	22.32	22.37	22.34		
20	QPSK	100	0	22.33	22.42	22.40		
20	16QAM	1	0	22.58	22.97	22.58		
20	16QAM	1	49	22.70	22.75	22.83	24	0
20	16QAM	1	99	22.39	22.52	22.41		
20	16QAM	50	0	22.04	22.07	21.98		
20	16QAM	50	24	21.74	21.84	21.81	23	1
20	16QAM	50	50	21.87	21.85	21.78		
20	16QAM	100	0	21.41	21.45	21.52		
20	64QAM	1	0	22.58	22.89	22.68		
20	64QAM	1	49	22.33	22.51	22.57	24	0
20	64QAM	1	99	22.25	22.34	22.30		
20	64QAM	50	0	21.87	21.92	22.01		
20	64QAM	50	24	21.58	21.73	21.73	23	1
20	64QAM	50	50	21.57	21.65	21.64		
20	64QAM	100	0	21.19	21.39	21.41		
20	256QAM	1	0	18.95	19.70	19.48		
20	256QAM	1	49	18.08	19.21	19.19	20	4
20	256QAM	1	99	19.00	19.17	18.96		
20	256QAM	50	0	18.16	19.27	19.13		
20	256QAM	50	24	19.25	19.25	19.25	20	4
20	256QAM	50	50	18.93	18.84	18.87		
20	256QAM	100	0	18.10	19.23	19.11		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.75	22.73	22.73		
15	QPSK	1	37	22.44	22.62	22.51	24	0
15	QPSK	1	74	22.54	22.45	22.48		
15	QPSK	36	0	22.44	22.66	22.58		
15	QPSK	36	20	22.21	22.46	22.38	24	0
15	QPSK	36	39	22.32	22.26	22.35		
15	QPSK	75	0	22.44	22.81	22.41		
15	16QAM	1	0	22.44	22.81	22.46		
15	16QAM	1	37	22.68	22.38	22.41	24	0
15	16QAM	1	74	22.17	22.51	22.33		
15	16QAM	36	0	21.89	22.05	21.99		
15	16QAM	36	20	21.59	21.67	21.61	23	1
15	16QAM	36	39	21.76	21.71	21.63		
15	16QAM	75	0	21.31	21.25	21.16		
15	64QAM	1	0	22.58	22.59	22.54		
15	64QAM	1	37	22.32	22.36	22.35	24	0
15	64QAM	1	74	22.15	22.20	22.23		
15	64QAM	36	0	21.88	21.83	21.89		
15	64QAM	36	20	21.49	21.68	21.51	23	1
15	64QAM	36	39	21.47	21.60	21.55		
15	64QAM	75	0	21.68	21.27	21.36		
15	256QAM	1	0	18.85	18.98	19.03		
15	256QAM	1	37	18.88	19.23	19.03	20	4
15	256QAM	1	74	18.92	18.10	18.77		
15	256QAM	36	0	18.55	18.15	18.08		
15	256QAM	36	20	19.13	19.11	19.22	20	4
15	256QAM	36	39	18.88	18.77	18.79		
15	256QAM	75	0	18.01	18.07	18.01		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.84	22.81	22.82		
10	QPSK	1	25	22.57	22.66	22.56	24	0
10	QPSK	1	49	22.53	22.49	22.50		
10	QPSK	25	0	22.29	22.37	22.34		
10	QPSK	25	12	22.22	22.32	22.43	24	0
10	QPSK	25	25	22.34	22.34	22.27		
10	QPSK	50	0	22.12	22.37	22.28		
10	16QAM	1	0	22.44	22.59	22.38		
10	16QAM	1	26	22.68	22.72	22.52	24	0
10	16QAM	1	49	22.37	22.34	22.33		
10	16QAM	25	0	22.00	21.90	21.87		
10	16QAM	25	12	21.70	21.66	21.74	23	1
10	16QAM	25	25	21.86	21.76	21.75		
10	16QAM	50	0	21.32	21.43	21.07		
10	64QAM	1	0	22.69	22.62	22.57		
10	64QAM	1	26	22.15	22.41	22.28	24	0
10	64QAM	1	49	22.19	22.16	22.25		
10	64QAM	25	0	21.88	21.72	21.84		
10	64QAM	25	12	21.66	21.74	21.65	23	1
10	64QAM	25	25	21.46	21.50	21.48		
10	64QAM	50	0	21.06	21.32	21.35		
10	256QAM	1	0	18.78	19.06	19.04		
10	256QAM	1	26	19.04	19.23	19.04	20	4
10	256QAM	1	49	18.87	18.96	18.86		
10	256QAM	25	0	18.97	19.21	19.02		
10	256QAM	25	12	19.04	19.14	19.20	20	4
10	256QAM	25	25	18.84	18.78	18.72		
10	256QAM	50	0	18.08	19.10	19.12		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.75	22.80	22.83		
5	QPSK	1	12	22.35	22.64	22.59	24	0
5	QPSK	1	24	22.31	22.40	22.37		
5	QPSK	12	0	22.41	22.56	22.54		
5	QPSK	12	7	22.31	22.40	22.51	24	0
5	QPSK	12	13	22.25	22.35	22.25		
5	QPSK	25	0	22.29	22.22	22.28		
5	16QAM	1	0	22.50	22.49	22.42		
5	16QAM	1	12	22.65	22.72	22.61	24	0
5	16QAM	1	24	22.32	22.43	22.34		
5	16QAM	12	0	21.84	21.89	21.88		
5	16QAM	12	7	21.70	21.78	21.70	23	1
5	16QAM	12	13	21.65	21.63	21.60		
5	64QAM	1	0	22.52	22.81	22.49		
5	64QAM	1	12	22.28	22.35	22.28	24	0
5	64QAM	1	24	22.18	22.13	22.19		
5	64QAM	12	0	21.65	21.70	21.61		
5	64QAM	12	7	21.57	21.64	21.55	23	1
5	64QAM	12	13	21.39	21.60	21.42		
5	64QAM	25	0	21.06	21.34	21.34		
5	256QAM	1	0	18.93	18.97	18.91		
5	256QAM	1	12	18.91	19.04	19.03	20	4
5	256QAM	1	24	19.02	19.15	19.06		
5	256QAM	12	0	18.97	19.20	19.02		
5	256QAM	12	7	19.08	19.17	19.09	20	4
5	256QAM	12	13	18.85	18.91	18.76		
5	256QAM	25	0	19.02	19.20	18.97		

**Band 38 Ant0 DSI2 Standalone**

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)				37850	38000	38150		
20	QPSK	1	0	23.59	23.89	23.56	24	0
20	QPSK	1	49	23.73	23.85	23.60		
20	QPSK	1	99	23.72	23.81	23.63		
20	QPSK	50	0	23.59	23.87	23.42		
20	QPSK	50	24	23.75	23.77	23.46	24	0
20	QPSK	50	50	23.76	23.86	23.57		
20	QPSK	100	0	23.73	23.84	23.72		
20	16QAM	1	0	23.49	23.69	23.64		
20	16QAM	1	49	23.74	23.71	23.88	24	0
20	16QAM	1	99	23.80	23.83	23.87		
20	16QAM	50	0	22.90	23.00	23.05		
20	16QAM	50	24	23.07	23.07	23.19		
20	16QAM	50	50	23.05	23.12	23.20	24	0
20	16QAM	100	0	23.01	23.04	23.16		
20	64QAM	1	0	23.51	23.54	23.66		
20	64QAM	1	49	23.66	23.75	23.81		
20	64QAM	1	99	23.66	23.83	23.82	24	0
20	64QAM	50	0	22.86	22.97	23.05		
20	64QAM	50	24	23.04	23.06	23.19		
20	64QAM	50	50	23.07	23.13	23.17		
20	64QAM	100	0	23.00	23.01	23.17	21	3
20	256QAM	1	0	20.03	20.27	20.08		
20	256QAM	1	49	20.21	20.21	20.27		
20	256QAM	1	99	20.06	20.30	20.26		
20	256QAM	50	0	19.90	20.30	20.12	21	3
20	256QAM	50	24	20.09	20.13	20.34		
20	256QAM	50	50	20.23	20.25	20.18		
20	256QAM	100	0	20.17	20.20	20.28		
Channel								
Frequency (MHz)				37825	38000	38175		
15	QPSK	1	0	23.60	23.48	23.34	24	0
15	QPSK	1	37	23.67	23.67	23.36		
15	QPSK	1	74	23.54	23.79	23.37		
15	QPSK	36	0	23.55	23.64	23.59		
15	QPSK	36	20	23.66	23.70	23.73	24	0
15	QPSK	36	39	23.58	23.79	23.77		
15	QPSK	75	0	23.73	23.51	23.69		
15	16QAM	1	0	23.45	23.53	23.64		
15	16QAM	1	37	23.60	23.51	23.83	24	0
15	16QAM	1	74	23.71	23.78	23.70		
15	16QAM	36	0	22.76	23.01	22.94		
15	16QAM	36	20	23.02	23.06	23.07		
15	16QAM	36	39	23.00	23.11	23.06	24	0
15	16QAM	75	0	22.79	22.83	23.13		
15	64QAM	1	0	23.42	23.58	23.57		
15	64QAM	1	37	23.53	23.69	23.73		
15	64QAM	1	74	23.68	23.62	23.81	24	0
15	64QAM	36	0	22.86	22.79	22.93		
15	64QAM	36	20	22.93	23.01	23.18		
15	64QAM	36	39	23.06	22.94	23.13		
15	64QAM	75	0	22.83	22.89	22.98	21	3
15	256QAM	1	0	19.91	20.39	20.05		
15	256QAM	1	37	20.01	20.25	20.27		
15	256QAM	1	74	20.19	20.11	20.22		
15	256QAM	36	0	19.97	20.34	20.18	21	3
15	256QAM	36	20	20.09	20.18	20.15		
15	256QAM	36	39	20.26	20.15	20.19		
15	256QAM	75	0	20.08	20.13	20.24		
Channel								
Frequency (MHz)				37800	38000	38100		
10	QPSK	1	0	23.39	23.69	23.54	24	0
10	QPSK	1	25	23.67	23.76	23.67		
10	QPSK	1	49	23.60	23.61	23.59		
10	QPSK	25	0	23.55	23.58	23.63		
10	QPSK	25	12	23.69	23.74	23.75	24	0
10	QPSK	25	25	23.71	23.85	23.83		
10	QPSK	50	0	23.67	23.59	23.86		
10	16QAM	1	0	23.61	23.57	23.62		
10	16QAM	1	25	23.66	23.50	23.85	24	0
10	16QAM	1	49	23.76	23.84	23.86		
10	16QAM	25	0	22.79	22.94	22.74		
10	16QAM	25	12	23.00	22.96	23.11		
10	16QAM	25	25	22.91	23.02	23.11	24	0
10	16QAM	50	0	22.87	22.95	23.10		
10	64QAM	1	0	23.43	23.54	23.60		
10	64QAM	1	25	23.44	23.67	23.76		
10	64QAM	1	49	23.66	23.81	23.75	24	0
10	64QAM	25	0	22.83	22.99	23.01		
10	64QAM	25	12	22.96	23.04	23.02		
10	64QAM	25	25	22.94	23.15	23.16		
10	64QAM	50	0	22.99	22.86	23.16	21	3
10	256QAM	1	0	20.01	20.31	20.16		
10	256QAM	1	25	20.02	20.32	20.34		
10	256QAM	1	49	20.21	20.15	20.15		
10	256QAM	25	0	20.07	20.24	20.21	21	3
10	256QAM	25	12	20.20	20.22	20.04		
10	256QAM	25	25	20.17	20.19	20.12		
10	256QAM	50	0	20.19	20.35	20.07		
Channel								
Frequency (MHz)				37775	38000	38225		
5	QPSK	1	0	23.33	23.60	23.54	24	0
5	QPSK	1	12	23.44	23.54	23.69		
5	QPSK	1	24	23.60	23.69	23.63		
5	QPSK	12	0	23.45	23.50	23.52		
5	QPSK	12	7	23.49	23.51	23.74	24	0
5	QPSK	12	13	23.49	23.59	23.81		
5	QPSK	25	0	23.64	23.54	23.70		
5	16QAM	1	0	23.42	23.48	23.53		
5	16QAM	1	12	23.54	23.44	23.65	24	0
5	16QAM	1	24	23.53	23.51	23.78		
5	16QAM	12	0	22.71	22.76	22.74		
5	16QAM	12	7	22.96	22.80	22.98		
5	16QAM	12	13	22.90	22.85	23.00	24	0
5	16QAM	25	0	22.78	22.84	23.02		
5	64QAM	1	0	23.22	23.35	23.57		
5	64QAM	1	12	23.49	23.47	23.59		
5	64QAM	1	24	23.49	23.61	23.59	24	0
5	64QAM	12	0	22.76	22.75	22.92		
5	64QAM	12	7	22.86	22.86	23.08		
5	64QAM	12	13	22.82	22.89	23.08		
5	64QAM	25	0	22.89	22.72	22.89	21	3
5	256QAM	1	0	20.09	20.32	20.02		
5	256QAM	1	12	20.05	20.27	20.20		
5	256QAM	1	24	20.11	20.33	20.27		
5	256QAM	12	0	19.88	20.27	20.08	21	3
5	256QAM	12	7	20.22	20.11	20.14		
5	256QAM	12	13	20.14	20.31	20.13		
5	256QAM	25	0	20.17	20.22	20.18		

Band 41 Ant0_pc3 DSI2 Standalone

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	25.06	25.49.5	25.93	26.36.5	26.80	24	0
20	QPSK	1	49	23.63	23.59	23.70	23.80	23.74		
20	QPSK	1	99	23.65	23.50	23.75	23.44	23.78		
20	QPSK	50	0	23.42	23.32	23.62	23.38	23.43		
20	QPSK	50	24	23.45	23.39	23.43	23.58	23.41	24	0
20	QPSK	50	50	23.40	23.34	23.49	23.45	23.53		
20	QPSK	100	0	23.42	23.33	23.51	23.45	23.40		
20	16QAM	1	0	23.19	23.13	23.34	23.21	23.06		
20	16QAM	1	49	23.38	23.25	23.45	23.41	23.41	24	0
20	16QAM	1	99	23.19	23.15	23.38	23.16	23.42		
20	16QAM	50	0	22.41	22.34	22.40	22.36	22.45		
20	16QAM	50	24	22.47	22.38	22.46	22.58	22.65		
20	16QAM	50	50	22.42	22.37	22.49	22.43	22.54	24	0
20	16QAM	100	0	22.43	22.36	22.39	22.47	22.53		
20	64QAM	1	0	23.19	23.14	23.35	23.12	23.11		
20	64QAM	1	49	23.30	23.27	23.40	23.43	23.41		
20	64QAM	1	99	23.10	23.19	23.40	23.10	23.48	24	0
20	64QAM	50	0	22.40	22.34	22.40	22.39	22.44		
20	64QAM	50	24	22.44	22.38	22.44	22.58	22.64		
20	64QAM	50	50	22.40	22.35	22.51	22.43	22.54		
20	64QAM	100	0	22.43	22.36	22.38	22.45	22.56	20	4
20	256QAM	1	0	18.85	18.97	19.27	19.01	18.88		
20	256QAM	1	49	19.82	19.10	19.10	19.18	19.29		
20	256QAM	1	99	18.94	18.83	19.05	18.82	19.17		
20	256QAM	50	0	18.80	18.84	18.96	18.83	18.80	20	4
20	256QAM	50	24	18.94	18.81	18.94	18.89	18.73		
20	256QAM	50	50	18.74	18.75	19.00	18.86	19.		

Band 41 Ant0_pc2 DSI2 Standalone										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.75	25.79	25.97	25.69	25.74	27	0
20	QPSK	1	49	25.88	25.93	25.87	25.88	25.76		
20	QPSK	1	99	25.83	25.94	25.91	25.78	25.83		
20	QPSK	50	0	25.65	25.60	25.87	25.69	25.77		
20	QPSK	50	24	25.69	25.76	25.65	25.78	25.82	27	0
20	QPSK	50	50	25.64	25.75	25.68	25.71	25.69		
20	QPSK	100	0	25.85	25.74	25.79	25.86	25.76		
20	16QAM	1	0	25.81	25.80	25.96	25.67	25.79		
20	16QAM	1	49	25.92	25.86	25.83	25.88	25.91	27	0
20	16QAM	1	99	25.86	25.93	25.81	25.82	25.86		
20	16QAM	50	0	24.66	24.73	24.71	24.70	24.80		
20	16QAM	50	24	24.69	24.75	24.66	24.88	24.96	26	1
20	16QAM	50	50	24.67	24.76	24.71	24.74	24.92		
20	16QAM	100	0	24.69	24.73	24.60	24.79	24.89		
20	64QAM	1	0	25.62	25.73	25.68	25.64	25.62		
20	64QAM	1	49	25.91	25.91	25.84	25.87	25.85	26	1
20	64QAM	1	99	25.72	25.79	25.86	25.66	25.89		
20	64QAM	50	0	24.67	24.72	24.69	24.68	24.78		
20	64QAM	50	24	24.68	24.73	24.66	24.89	24.96	26	1
20	64QAM	50	50	24.67	24.74	24.69	24.78	24.93		
20	64QAM	100	0	24.66	24.73	24.62	24.72	24.85		
20	256QAM	1	0	21.66	21.67	21.85	21.65	21.62		
20	256QAM	1	49	21.81	21.88	21.83	21.74	21.73	23	4
20	256QAM	1	99	21.82	21.89	21.85	21.77	21.71		
20	256QAM	50	0	21.53	21.48	21.69	21.66	21.69		
20	256QAM	50	24	21.69	21.73	21.54	21.74	21.63	23	4
20	256QAM	50	50	21.50	21.64	21.58	21.67	21.56		
20	256QAM	100	0	21.56	21.66	21.62	21.61	21.68		
Channel				39725	40173	40620	41088	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.59	25.74	25.94	25.60	25.72	27.00	0
15	QPSK	1	37	25.84	25.89	25.84	25.76	25.59		
15	QPSK	1	74	25.79	25.90	25.85	25.69	25.70		
15	QPSK	36	0	25.52	25.55	25.70	25.62	25.71		
15	QPSK	36	20	25.64	25.63	25.56	25.70	25.73	27	0
15	QPSK	36	39	25.56	25.81	25.53	25.59	25.67		
15	QPSK	75	0	25.60	25.66	25.72	25.51	25.65		
15	16QAM	1	0	25.73	25.71	25.91	25.56	25.63	27	0
15	16QAM	1	37	25.76	25.81	25.80	25.71	25.84		
15	16QAM	1	74	25.76	25.76	25.69	25.80	25.70		
15	16QAM	36	0	24.61	24.63	24.64	24.57	24.62		
15	16QAM	36	20	24.60	24.63	24.63	24.80	24.93	26	1
15	16QAM	36	39	24.64	24.72	24.59	24.58	24.83		
15	16QAM	75	0	24.52	24.64	24.49	24.65	24.72		
15	64QAM	1	0	25.48	25.68	25.52	25.60	25.47		
15	64QAM	1	37	25.77	25.85	25.70	25.83	25.78	26	1
15	64QAM	1	74	25.64	25.74	25.84	25.56	25.80		
15	64QAM	36	0	24.61	24.65	24.54	24.57	24.64		
15	64QAM	36	20	24.56	24.67	24.53	24.79	24.82	26	1
15	64QAM	36	39	24.50	24.65	24.56	24.70	24.86		
15	64QAM	75	0	24.57	24.59	24.57	24.57	24.78		
15	256QAM	1	0	21.57	21.63	21.76	21.62	21.59		
15	256QAM	1	37	21.68	21.73	21.71	21.62	21.64	23	4
15	256QAM	1	74	21.72	21.83	21.82	21.67	21.58		
15	256QAM	36	0	21.39	21.41	21.58	21.55	21.60		
15	256QAM	36	20	21.56	21.69	21.51	21.70	21.55	23	4
15	256QAM	36	39	21.35	21.54	21.46	21.52	21.39		
15	256QAM	75	0	21.43	21.54	21.52	21.52	21.62		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.62	25.70	25.86	25.66	25.66	27.00	0
10	QPSK	1	25	25.73	25.85	25.72	25.81	25.59		
10	QPSK	1	49	25.70	25.85	25.74	25.61	25.68		
10	QPSK	25	0	25.57	25.58	25.84	25.66	25.70		
10	QPSK	25	12	25.54	25.63	25.60	25.65	25.77	27	0
10	QPSK	25	25	25.58	25.64	25.65	25.54	25.55		
10	QPSK	50	0	25.47	25.58	25.64	25.52	25.72		
10	16QAM	1	0	25.70	25.63	25.81	25.62	25.62		
10	16QAM	1	25	25.86	25.80	25.77	25.74	25.83	27	0
10	16QAM	1	49	25.71	25.85	25.77	25.64	25.80		
10	16QAM	25	0	24.55	24.62	24.68	24.61	24.69		
10	16QAM	25	12	24.54	24.61	24.54	24.78	24.84	26	1
10	16QAM	25	25	24.55	24.64	24.66	24.70	24.78		
10	16QAM	50	0	24.58	24.66	24.90	24.65	24.72		
10	64QAM	1	0	25.46	25.64	25.66	25.54	25.49		
10	64QAM	1	25	25.82	25.81	25.66	25.69	25.79	26	1
10	64QAM	1	49	25.57	25.66	25.79	25.51	25.72		
10	64QAM	25	0	24.64	24.57	24.65	24.55	24.70		
10	64QAM	25	12	24.56	24.70	24.59	24.75	24.90	26	1
10	64QAM	25	25	24.59	24.67	24.65	24.63	24.81		
10	64QAM	50	0	24.58	24.71	24.48	24.69	24.74		
10	256QAM	1	0	21.49	21.49	21.71	21.62	21.60		
10	256QAM	1	25	21.71	21.82	21.78	21.67	21.63	23	4
10	256QAM	1	49	21.69	21.83	21.70	21.60	21.68		
10	256QAM	25	0	21.51	21.43	21.66	21.49	21.52		
10	256QAM	25	12	21.56	21.67	21.39	21.66	21.54	23	4
10	256QAM	25	25	21.35	21.60	21.50	21.63	21.48		
10	256QAM	50	0	21.46	21.61	21.55	21.49	21.65		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.70	25.71	25.85	25.54	25.63	27.00	0
5	QPSK	1	12	25.70	25.82	25.78	25.76	25.60		
5	QPSK	1	24	25.69	25.76	25.78	25.73	25.70		
5	QPSK	12	0	25.57	25.49	25.78	25.63	25.67		
5	QPSK	12	7	25.53	25.61	25.48	25.66	25.65	27	0
5	QPSK	12	13	25.54	25.65	25.63	25.58	25.52		
5	QPSK	25	0	25.57	25.58	25.62	25.51	25.67		
5	16QAM	1	0	25.72	25.75	25.91	25.55	25.74	27	0
5	16QAM	1	12	25.85	25.82	25.71	25.83	25.82		
5	16QAM	1	24	25.74	25.81	25.68	25.78	25.78		
5	16QAM	12	0	24.63	24.56	24.67	24.67	24.71		
5	16QAM	12	7	24.55	24.70	24.60	24.81	24.93	26	1
5	16QAM	12	13	24.62	24.72	24.61	24.70	24.75		
5	16QAM	25	0	24.62	24.56	24.53	24.75	24.85		
5	64QAM	1	0	25.52	25.65	25.63	25.54	25.68		
5	64QAM	1	12	25.81	25.77	25.73	25.71	25.81	26	1
5	64QAM	1	24	25.57	25.74	25.81	25.55	25.73		
5	64QAM	12	0	24.65	24.63	24.56	24.53	24.70		
5	64QAM	12	7	24.57	24.68	24.55	24.86	24.86	26	1
5	64QAM	12	13	24.57	24.56	24.52	24.74	24.85		
5	64QAM	25	0	24.52	24.60	24.49	24.56	24.80		
5	256QAM	1	0	21.62	21.52	21.70	21.55	21.50		
5	256QAM	1	12	21.74	21.80	21.79	21.70	21.68	23	4
5	256QAM	1	24	2						



Band 38 Ant0 DSI2 Simultaneous

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	23.59	23.89	23.56	24	0	
20	QPSK	1	49	23.73	23.85	23.60			
20	QPSK	1	99	23.72	23.81	23.63			
20	QPSK	50	0	23.59	23.87	23.42			
20	QPSK	50	24	23.75	23.77	23.46	24	0	
20	QPSK	50	50	23.76	23.86	23.57			
20	QPSK	100	0	23.73	23.84	23.72			
20	16QAM	1	0	23.49	23.69	23.64			
20	16QAM	1	49	23.74	23.71	23.88	24	0	
20	16QAM	1	99	23.80	23.83	23.87			
20	16QAM	50	0	22.90	23.00	23.05			
20	16QAM	50	24	23.07	23.07	23.19			
20	16QAM	50	50	23.05	23.12	23.20	24	0	
20	16QAM	100	0	23.01	23.04	23.16			
20	64QAM	1	0	23.51	23.54	23.66			
20	64QAM	1	49	23.66	23.75	23.81			
20	64QAM	1	99	23.66	23.83	23.82	24	0	
20	64QAM	50	0	22.86	22.97	23.05			
20	64QAM	50	24	23.04	23.06	23.19			
20	64QAM	50	50	23.07	23.13	23.17			
20	64QAM	100	0	23.00	23.01	23.17	21	3	
20	256QAM	1	0	20.03	20.27	20.08			
20	256QAM	1	49	20.21	20.21	20.21			
20	256QAM	1	99	20.06	20.30	20.26			
20	256QAM	50	0	19.90	20.30	20.12	21	3	
20	256QAM	50	24	20.09	20.13	20.34			
20	256QAM	50	50	20.23	20.25	20.18			
20	256QAM	100	0	20.17	20.20	20.28			
Channel							37825	38000	38175
Frequency (MHz)							2577.5	2595	2612.5
15	QPSK	1	0	23.60	23.48	23.34	24	0	
15	QPSK	1	37	23.67	23.67	23.36			
15	QPSK	1	74	23.54	23.79	23.37			
15	QPSK	36	0	23.55	23.64	23.59			
15	QPSK	36	20	23.66	23.70	23.73	24	0	
15	QPSK	36	39	23.58	23.79	23.77			
15	QPSK	75	0	23.73	23.51	23.69			
15	16QAM	1	0	23.45	23.53	23.84			
15	16QAM	1	37	23.60	23.51	23.83	24	0	
15	16QAM	1	74	23.71	23.78	23.70			
15	16QAM	36	0	22.76	23.01	22.94			
15	16QAM	36	20	23.02	23.06	23.07			
15	16QAM	36	39	23.00	23.11	23.06	24	0	
15	16QAM	75	0	22.79	22.83	23.13			
15	64QAM	1	0	23.42	23.58	23.57			
15	64QAM	1	37	23.53	23.69	23.73			
15	64QAM	1	74	23.68	23.62	23.81	24	0	
15	64QAM	36	0	22.86	22.79	22.93			
15	64QAM	36	20	22.93	23.01	23.18			
15	64QAM	36	39	23.06	22.94	23.13			
15	64QAM	75	0	22.83	22.89	22.98	21	3	
15	256QAM	1	0	19.91	20.39	20.05			
15	256QAM	1	37	20.01	20.25	20.27			
15	256QAM	1	74	20.19	20.11	20.22			
15	256QAM	36	0	19.97	20.34	20.18	21	3	
15	256QAM	36	20	20.09	20.18	20.15			
15	256QAM	36	39	20.26	20.15	20.19			
15	256QAM	75	0	20.08	20.13	20.24			
Channel							37800	38000	3824
Frequency (MHz)							2575	2595	2615
10	QPSK	1	0	23.39	23.69	23.54	24	0	
10	QPSK	1	25	23.67	23.76	23.67			
10	QPSK	1	49	23.60	23.61	23.59			
10	QPSK	25	0	23.55	23.58	23.63			
10	QPSK	25	12	23.69	23.74	23.75	24	0	
10	QPSK	25	25	23.71	23.85	23.83			
10	QPSK	50	0	23.67	23.59	23.86			
10	16QAM	1	0	23.61	23.57	23.62			
10	16QAM	1	25	23.66	23.50	23.85	24	0	
10	16QAM	1	49	23.76	23.84	23.86			
10	16QAM	25	0	22.78	22.94	22.74			
10	16QAM	25	12	23.00	22.96	23.11			
10	16QAM	25	25	22.91	23.02	23.11	24	0	
10	16QAM	50	0	22.87	22.95	23.10			
10	64QAM	1	0	23.43	23.54	23.60			
10	64QAM	1	25	23.44	23.67	23.76			
10	64QAM	1	49	23.66	23.81	23.75	24	0	
10	64QAM	25	0	22.83	22.99	23.01			
10	64QAM	25	12	22.96	23.04	23.02			
10	64QAM	25	25	22.94	23.15	23.16			
10	64QAM	50	0	22.99	22.86	23.16	21	3	
10	256QAM	1	0	20.01	20.31	20.16			
10	256QAM	1	25	20.02	20.32	20.34			
10	256QAM	1	49	20.21	20.15	20.15			
10	256QAM	25	0	20.07	20.24	20.21	21	3	
10	256QAM	25	12	20.20	20.22	20.04			
10	256QAM	25	25	20.17	20.19	20.12			
10	256QAM	50	0	20.19	20.35	20.07			
Channel							37775	38000	38225
Frequency (MHz)							2572.5	2595	2617.5
5	QPSK	1	0	23.33	23.60	23.54	24	0	
5	QPSK	1	12	23.44	23.54	23.69			
5	QPSK	1	24	23.60	23.69	23.63			
5	QPSK	12	0	23.45	23.50	23.52			
5	QPSK	12	7	23.49	23.51	23.74	24	0	
5	QPSK	12	13	23.49	23.59	23.81			
5	QPSK	25	0	23.64	23.54	23.70			
5	16QAM	1	0	23.42	23.48	23.53			
5	16QAM	1	12	23.54	23.44	23.65	24	0	
5	16QAM	1	24	23.53	23.51	23.78			
5	16QAM	12	0	22.71	22.76	22.74			
5	16QAM	12	7	22.96	22.80	22.98			
5	16QAM	12	13	22.99	22.85	23.00	24	0	
5	16QAM	25	0	22.78	22.84	23.02			
5	64QAM	1	0	23.22	23.35	23.57			
5	64QAM	1	12	23.49	23.47	23.59			
5	64QAM	1	24	23.49	23.61	23.59	24	0	
5	64QAM	12	0	22.76	22.75	22.92			
5	64QAM	12	7	22.86	22.86	23.08			
5	64QAM	12	13	22.82	22.89	23.08			
5	64QAM	25	0	22.89	22.72	22.89	21	3	
5	256QAM	1	0	20.09	20.32	20.02			
5	256QAM	1	12	20.05	20.27	20.20			
5	256QAM	1	24	20.11	20.33	20.27			
5	256QAM	12	0	19.88	20.27	20.08	21	3	
5	256QAM	12	7	20.22	20.11	20.14			
5	256QAM	12	13	20.14	20.31	20.13			
5	256QAM	25	0	20.17	20.22	20.18			

Band 41 Ant0_pc3 DSI2 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	23.55	23.46	23.92	23.52	23.44	24	0
20	QPSK	1	49	23.63	23.59	23.70	23.80	23.74		
20	QPSK	1	99	23.65	23.60	23.75	23.44	23.78		
20	QPSK	50	0	23.42	23.32	23.62	23.38	23.43		
20	QPSK	50	24	23.45	23.39	23.43	23.58	23.41	24	0
20	QPSK	50	50	23.40	23.34	23.49	23.45	23.53		
20	QPSK	100	0	23.42	23.33	23.51	23.45	23.40		
20	16QAM	1	0	23.19	23.13	23.24	23.21	23.06		
20	16QAM	1	49	23.36	23.25	23.45	23.41	23.41	24	0
20	16QAM	1	99	23.19	23.15	23.38	23.16	23.42		
20	16QAM	50	0	22.41	22.34	22.40	22.36	22.45		
20	16QAM	50	24	22.47	22.38	22.46	22.58	22.65		
20	16QAM	50	50	22.42	22.37	22.49	22.43	22.54	24	0
20	16QAM	100	0	22.43	22.36	22.39	22.47	22.53		
20	64QAM	1	0	23.19	23.14	23.35	23.12	23.11		
20	64QAM	1	49	23.30	23.27	23.40	23.43	23.41		
20	64QAM	1	99	23.10	23.19	23.40	23.10	23.48	24	0
20	64QAM	50	0	22.40	22.34	22.40	22.39	22.44		
20	64QAM	50	24	22.44	22.38	22.44	22.58	22.64		
20	64QAM	50	50	22.40	22.35	22.51	22.43	22.54		
20	64QAM	100	0	22.43	22.36	22.38	22.45	22.56	20	4
20	256QAM	1	0	18.85	18.97	19.27	19.01	18.88		
20	256QAM	1	49	19.03	19.10	19.10	19.18	19.09		
20	256QAM	1	99	18.94	18.83	19.05	18.92	19.17		
20	256QAM	50	0	18.90	18.84	18.96	18.83	18.80	20	4
20	256QAM	50	24	18.94	18.81	18.94	18.89	18.73		
20	256QAM	50	50	18.74	18.75	19.00	18.86	19.04		
20	2									



Band 41 Ant0_pc2 DSI2 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.75	25.79	25.97	25.69	25.74	27	0
20	QPSK	1	49	25.88	25.93	25.87	25.88	25.76		
20	QPSK	1	99	25.83	25.94	25.91	25.78	25.83		
20	QPSK	50	0	25.65	25.60	25.87	25.69	25.77	27	0
20	QPSK	50	24	25.69	25.76	25.65	25.78	25.82		
20	QPSK	50	50	25.64	25.75	25.68	25.71	25.69		
20	QPSK	100	0	25.65	25.74	25.79	25.86	25.76	27	0
20	16QAM	1	0	25.81	25.80	25.96	25.67	25.79		
20	16QAM	1	49	25.92	25.86	25.83	25.88	25.91		
20	16QAM	1	99	25.86	25.93	25.81	25.82	25.86	26	1
20	16QAM	50	0	24.66	24.73	24.71	24.70	24.80		
20	16QAM	50	24	24.69	24.75	24.66	24.88	24.96		
20	16QAM	50	50	24.67	24.76	24.71	24.74	24.92	26	1
20	16QAM	100	0	24.69	24.73	24.60	24.79	24.89		
20	64QAM	1	0	25.62	25.73	25.68	25.64	25.62		
20	64QAM	1	49	25.91	25.91	25.84	25.87	25.85	26	1
20	64QAM	1	99	25.72	25.79	25.86	25.66	25.89		
20	64QAM	50	0	24.67	24.72	24.69	24.68	24.78		
20	64QAM	50	24	24.68	24.73	24.66	24.89	24.96	26	1
20	64QAM	50	50	24.67	24.74	24.69	24.78	24.93		
20	64QAM	100	0	24.66	24.73	24.62	24.72	24.85		
20	256QAM	1	0	21.66	21.67	21.85	21.65	21.62	23	4
20	256QAM	1	49	21.81	21.88	21.83	21.74	21.73		
20	256QAM	1	99	21.82	21.89	21.85	21.77	21.71		
20	256QAM	50	0	21.53	21.48	21.69	21.66	21.69	23	4
20	256QAM	50	24	21.89	21.73	21.54	21.74	21.63		
20	256QAM	50	50	21.50	21.64	21.58	21.67	21.56		
20	256QAM	100	0	21.56	21.66	21.62	21.61	21.68		
Channel				39725	40173	40620	41088	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.59	25.74	25.94	25.60	25.72	27.00	0
15	QPSK	1	37	25.84	25.89	25.84	25.76	25.59		
15	QPSK	1	74	25.79	25.90	25.85	25.69	25.70		
15	QPSK	36	0	25.52	25.55	25.70	25.62	25.71	27	0
15	QPSK	36	20	25.64	25.63	25.56	25.70	25.73		
15	QPSK	36	39	25.56	25.61	25.53	25.59	25.67		
15	QPSK	75	0	25.60	25.66	25.72	25.51	25.65	27	0
15	16QAM	1	0	25.73	25.71	25.91	25.56	25.63		
15	16QAM	1	37	25.76	25.81	25.80	25.71	25.84		
15	16QAM	1	74	25.76	25.76	25.69	25.80	25.70	26	1
15	16QAM	36	0	24.61	24.63	24.64	24.57	24.62		
15	16QAM	36	20	24.60	24.63	24.63	24.80	24.93		
15	16QAM	36	39	24.64	24.72	24.59	24.58	24.83	26	1
15	16QAM	75	0	24.52	24.64	24.49	24.65	24.72		
15	64QAM	1	0	25.48	25.68	25.52	25.60	25.47		
15	64QAM	1	37	25.77	25.85	25.70	25.83	25.78	26	1
15	64QAM	1	74	25.64	25.74	25.84	25.56	25.80		
15	64QAM	36	0	24.61	24.65	24.54	24.57	24.64		
15	64QAM	36	20	24.56	24.67	24.53	24.79	24.82	26	1
15	64QAM	36	39	24.50	24.65	24.56	24.70	24.86		
15	64QAM	75	0	24.57	24.59	24.57	24.57	24.78		
15	256QAM	1	0	21.57	21.63	21.76	21.62	21.59	23	4
15	256QAM	1	37	21.68	21.73	21.71	21.62	21.64		
15	256QAM	1	74	21.72	21.83	21.82	21.67	21.58		
15	256QAM	36	0	21.39	21.41	21.58	21.55	21.60	23	4
15	256QAM	36	20	21.56	21.69	21.51	21.70	21.55		
15	256QAM	36	39	21.35	21.54	21.46	21.52	21.39		
15	256QAM	75	0	21.43	21.54	21.52	21.52	21.62		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.62	25.70	25.86	25.66	25.66	27.00	0
10	QPSK	1	25	25.73	25.85	25.72	25.81	25.59		
10	QPSK	1	49	25.70	25.85	25.74	25.61	25.68		
10	QPSK	25	0	25.57	25.58	25.84	25.66	25.70	27	0
10	QPSK	25	12	25.54	25.63	25.60	25.65	25.77		
10	QPSK	25	25	25.58	25.64	25.65	25.54	25.55		
10	QPSK	50	0	25.47	25.58	25.64	25.52	25.72	27	0
10	16QAM	1	0	25.70	25.63	25.81	25.62	25.62		
10	16QAM	1	25	25.86	25.80	25.77	25.74	25.83		
10	16QAM	1	49	25.71	25.85	25.77	25.64	25.80	26	1
10	16QAM	25	0	24.55	24.62	24.66	24.61	24.69		
10	16QAM	25	12	24.54	24.61	24.54	24.78	24.84		
10	16QAM	25	25	24.55	24.64	24.66	24.70	24.78	26	1
10	16QAM	50	0	24.58	24.66	24.90	24.65	24.72		
10	64QAM	1	0	25.46	25.64	25.66	25.54	25.49		
10	64QAM	1	25	25.82	25.81	25.66	25.69	25.79	26	1
10	64QAM	1	49	25.57	25.66	25.79	25.51	25.72		
10	64QAM	25	0	24.64	24.57	24.85	24.55	24.70		
10	64QAM	25	12	24.56	24.70	24.59	24.75	24.90	26	1
10	64QAM	25	25	24.59	24.67	24.65	24.63	24.81		
10	64QAM	50	0	24.58	24.71	24.48	24.69	24.74		
10	256QAM	1	0	21.49	21.49	21.71	21.62	21.60	23	4
10	256QAM	1	25	21.71	21.82	21.78	21.67	21.63		
10	256QAM	1	49	21.69	21.83	21.70	21.60	21.68		
10	256QAM	25	0	21.51	21.43	21.66	21.49	21.52	23	4
10	256QAM	25	12	21.56	21.67	21.39	21.66	21.54		
10	256QAM	25	25	21.35	21.60	21.50	21.63	21.48		
10	256QAM	50	0	21.46	21.61	21.55	21.49	21.65		
Channel				39875	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	25.70	25.71	25.85	25.54	25.63	27.00	0
5	QPSK	1	12	25.70	25.82	25.78	25.76	25.60		
5	QPSK	1	24	25.69	25.76	25.78	25.73	25.70		
5	QPSK	12	0	25.57	25.49	25.78	25.63	25.67	27	0
5	QPSK	12	7	25.53	25.61	25.48	25.66	25.65		
5	QPSK	12	13	25.54	25.65	25.63	25.58	25.52		
5	QPSK	25	0	25.57	25.58	25.62	25.51	25.67	27	0
5	16QAM	1	0	25.72	25.75	25.91	25.55	25.74		
5	16QAM	1	12	25.85	25.82	25.71	25.83	25.82		
5	16QAM	1	24	25.74	25.81	25.68	25.78	25.78	26	1
5	16QAM	12	0	24.63	24.56	24.67	24.67	24.71		
5	16QAM	12	7	24.55	24.70	24.60	24.81	24.93		
5	16QAM	12	13	24.62	24.72	24.61	24.70	24.75	26	1
5	16QAM	25	0	24.62	24.56	24.53	24.75	24.85		
5	64QAM	1	0	25.52	25.65	25.63	25.54	25.68		
5	64QAM	1	12	25.81	25.77	25.73	25.71	25.81	26	1
5	64QAM	1	24	25.57	25.74	25.81	25.55	25.73		
5	64QAM	12	0	24.65	24.63	24.56	24.53	24.70		
5	64QAM	12	7	24.57	24.68	24.55	24.86	24.86	26	1
5	64QAM	12	13	24.57	24.56	24.52	24.74	24.85		
5	64QAM	25	0	24.52	24.60	24.49	24.56	24.80		
5	256QAM	1	0	21.62	21.52	21.70	21.55	21.50	23	4
5	256QAM	1	12	21.74	21.80	21.79	21.70	21.68		
5	256QAM	1	24	21.67	21.74	21.70	21.72	21.67		
5	256QAM	12	0	21.42	21.37	21.55	21.57	21.60	23	4
5	256QAM	12	7	21.57	21.71	21.45	21.60	21.45		
5	256QAM	12	13	21.38	21.55	21.40	21.50	21.51		
5	256QAM	25	0	21.54	21.56	21.47	21.48	21.85		

GSM850 Ant1 DS12 Standalone

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	32.17	32.28	32.07	33.20	23.17	23.28	23.07	24.20
GPRS 1 Tx slot	32.31	32.14	32.06	33.20	23.31	23.14	23.06	24.20
GPRS 2 Tx slots	28.84	28.28	29.21	30.20	22.84	23.28	23.21	24.20
GPRS 3 Tx slots	27.41	27.59	27.53	28.50	23.15	23.33	23.27	24.24
GPRS 4 Tx slots	25.78	26.15	26.07	27.20	22.78	23.15	23.07	24.20
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50

WCDMA V Ant1 DS12 Standalone

Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.4	836.4	848.8	
3GPP Rel 99 AMR 12.2Kbps	22.24	22.34	22.39	23.70
3GPP Rel 99 BMC 12.2Kbps	22.31	22.43	22.42	23.70
3GPP Rel 6 HSDPA Subtest-1	21.50	21.48	21.36	22.70
3GPP Rel 6 HSDPA Subtest-2	21.44	21.54	21.39	22.70
3GPP Rel 6 HSDPA Subtest-3	20.91	21.01	21.07	22.20
3GPP Rel 6 HSDPA Subtest-4	20.91	21.00	21.09	22.20
3GPP Rel 6 DC-HSDPA Subtest-1	21.49	21.25	21.57	22.70
3GPP Rel 6 DC-HSDPA Subtest-2	21.29	21.41	21.44	22.70
3GPP Rel 6 DC-HSDPA Subtest-3	20.83	20.98	21.00	22.20
3GPP Rel 6 DC-HSDPA Subtest-4	20.76	20.90	21.10	22.20
3GPP Rel 6 HSUPA Subtest-1	21.50	21.55	21.57	22.70
3GPP Rel 6 HSUPA Subtest-2	19.44	19.56	19.64	20.70
3GPP Rel 6 HSUPA Subtest-3	20.39	20.60	20.50	21.70
3GPP Rel 6 HSUPA Subtest-4	19.42	19.47	19.60	20.70
3GPP Rel 6 HSUPA Subtest-5	21.31	21.42	21.58	22.70



GSM850 Ant1 DSI2 Simultaneous

GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	126	159	251		126	159	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.05	31.12	30.96	31.90	22.05	22.12	21.96	22.90
GPRS 1 Tx slot	31.02	31.01	30.91	31.90	22.02	22.01	21.91	22.90
GPRS 2 Tx slots	28.01	28.04	27.98	28.90	22.01	22.04	21.98	22.90
GPRS 3 Tx slots	26.21	26.39	26.28	27.20	21.95	22.13	22.02	22.94
GPRS 4 Tx slots	24.99	25.01	24.95	25.90	21.99	22.01	21.98	22.90
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50

WCDMA V Ant1 DSI2 Simultaneous

Band TX Channel	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	843.6	
3GPP Rel 99 AMR 12.2Kbps	21.19	21.30	21.25	22.40
3GPP Rel 99 RMC 12.2Kbps	21.28	21.37	21.32	22.40
3GPP Rel 6 HSDPA Subtest-1	20.40	20.32	20.17	22.40
3GPP Rel 6 HSDPA Subtest-2	20.35	20.39	20.25	22.40
3GPP Rel 6 HSDPA Subtest-3	19.86	19.88	19.97	21.90
3GPP Rel 6 HSDPA Subtest-4	19.70	19.85	19.92	21.90
3GPP Rel 8 DC-HSDPA Subtest-1	20.40	20.18	20.52	21.40
3GPP Rel 8 DC-HSDPA Subtest-2	20.28	20.38	20.24	21.40
3GPP Rel 8 DC-HSDPA Subtest-3	19.78	19.91	19.95	20.90
3GPP Rel 8 DC-HSDPA Subtest-4	19.76	19.69	20.06	20.90
3GPP Rel 6 HSUPA Subtest-1	20.51	20.42	20.57	21.40
3GPP Rel 6 HSUPA Subtest-2	18.29	18.43	18.53	19.40
3GPP Rel 6 HSUPA Subtest-3	19.39	19.46	19.46	20.40
3GPP Rel 6 HSUPA Subtest-4	18.35	18.37	18.43	19.40
3GPP Rel 6 HSUPA Subtest-5	20.20	20.30	20.47	21.40



Band 2 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1/Freq.	Power Ch. 2/Freq.	Power Ch. 3/Freq.	Turn-up Time (min)	MPR (dB)	MFR (dB)
Channel									
1860 1860 1860									
20	QPSK	1	0	18.35	18.42	18.30			
20	QPSK	1	49	18.29	18.36	18.15	19.7	0	
20	QPSK	1	99	18.23	18.34	18.22			
20	QPSK	50	0	18.27	18.36	18.24			
20	QPSK	50	50	18.30	18.27	18.13			
20	QPSK	50	99	18.25	18.30	18.31			
20	QPSK	100	0	18.24	18.34	18.27			
20	QPSK	100	50	18.25	18.27	18.25			
20	QPSK	100	99	18.31	18.25	18.15	19.7	0	
20	16QAM	1	0	18.31	18.25	18.15			
20	16QAM	1	49	18.28	18.37	18.26			
20	16QAM	1	99	18.27	18.30	18.21			
20	16QAM	50	24	18.31	18.20	18.22	19.7	0	
20	16QAM	50	50	18.18	18.25	18.26			
20	16QAM	50	99	18.28	18.19	18.28			
20	16QAM	100	0	18.22	18.35	18.23			
20	16QAM	100	50	18.21	18.30	18.37	19.7	0	
20	16QAM	100	99	18.36	18.24	18.19			
20	64QAM	20	24	18.17	18.20	18.25	19.7	0	
20	64QAM	20	50	18.34	18.25	18.21			
20	64QAM	20	99	18.29	18.35	18.28			
20	64QAM	100	0	18.29	18.35	18.28			
20	64QAM	100	50	18.27	18.24	18.29			
20	64QAM	100	99	18.15	18.34	18.21	19.7	0	
20	256QAM	1	0	18.29	18.38	18.27			
20	256QAM	1	49	18.27	18.36	18.25			
20	256QAM	1	99	18.29	18.38	18.21			
20	256QAM	50	24	18.34	18.25	18.24	19.7	0	
20	256QAM	50	50	18.17	18.13	18.22			
20	256QAM	50	99	18.37	18.34	18.20			
20	256QAM	100	0	18.29	18.25	18.14	19.7	0	
Channel									
1895 1895 1895									
15	QPSK	1	0	18.20	18.27	18.15			
15	QPSK	1	49	18.21	18.28	18.09	19.7	0	
15	QPSK	1	99	18.15	18.20	18.12			
15	QPSK	36	0	18.18	18.24	18.13			
15	QPSK	36	36	18.22	18.20	17.98			
15	QPSK	36	72	18.13	18.23	18.23			
15	QPSK	72	0	18.14	18.26	18.25			
15	16QAM	1	0	18.12	18.18	18.13			
15	16QAM	1	37	18.18	18.22	18.07	19.7	0	
15	16QAM	1	74	18.17	18.25	18.16			
15	16QAM	36	0	18.17	18.10	18.10			
15	16QAM	36	36	18.18	18.18	18.11	19.7	0	
15	16QAM	36	72	18.22	18.23	18.24			
15	16QAM	72	0	18.22	18.04	18.14			
15	64QAM	1	0	18.15	18.27	18.13			
15	64QAM	1	37	18.20	18.25	18.17	19.7	0	
15	64QAM	1	74	18.14	18.15	18.12			
15	64QAM	36	0	18.28	18.12	18.13			
15	64QAM	36	36	18.26	18.38	18.24	19.7	0	
15	64QAM	36	72	18.28	18.15	18.23			
15	64QAM	72	0	18.23	18.22	18.27			
15	64QAM	72	36	18.34	18.45	18.44			
15	64QAM	72	72	18.25	18.25	18.21	19.7	0	
15	256QAM	1	0	18.10	18.25	18.00			
15	256QAM	1	37	18.19	18.25	18.00	19.7	0	
15	256QAM	1	74	18.18	18.25	18.00			
15	256QAM	36	0	18.27	18.07	18.07			
15	256QAM	36	36	18.29	18.25	18.07	19.7	0	
15	256QAM	36	72	18.27	18.25	18.13			
15	256QAM	72	0	18.18	18.23	18.14			
Channel									
1925 1895 1905									
10	QPSK	1	0	18.17	18.21	18.17			
10	QPSK	1	25	18.14	18.24	18.09	19.7	0	
10	QPSK	1	49	18.10	18.20	18.12			
10	QPSK	1	74	18.16	18.24	18.14			
10	QPSK	25	0	18.20	18.12	17.98			
10	QPSK	25	25	18.19	18.17	18.26	19.7	0	
10	QPSK	25	49	18.18	18.23	18.25			
10	QPSK	25	74	18.10	18.19	18.19			
10	16QAM	1	0	18.23	18.24	18.02			
10	16QAM	1	25	18.16	18.12	18.00	19.7	0	
10	16QAM	1	49	18.18	18.18	18.08			
10	16QAM	1	74	18.13	18.25	18.07			
10	16QAM	25	0	18.21	18.04	18.22			
10	16QAM	25	25	18.20	18.20	18.15	19.7	0	
10	16QAM	25	49	18.24	18.23	18.28			
10	16QAM	25	74	18.15	18.18	18.12			
10	16QAM	50	0	18.27	18.20	18.22			
10	16QAM	50	25	18.24	18.23	18.28	19.7	0	
10	16QAM	50	49	18.15	18.18	18.12			
10	16QAM	50	74	18.23	18.10	18.07			
10	16QAM	100	0	18.23	18.10	18.26			
10	16QAM	100	25	18.21	18.21	18.16	19.7	0	
10	16QAM	100	49	18.21	18.14	18.26			
10	16QAM	100	74	18.25	18.25	18.25			
10	64QAM	1	0	18.10	18.25	18.00			
10	64QAM	1	25	18.19	18.25	17.97	19.7	0	
10	64QAM	1	49	18.24	18.25	18.02			
10	64QAM	1	74	18.18	18.20	18.14			
10	64QAM	25	0	18.20	18.18	18.26			
10	64QAM	25	25	18.26	18.27	18.27	19.7	0	
10	64QAM	25	49	18.25	18.25	18.25			
10	64QAM	25	74	18.25	18.25	18.25			
10	64QAM	50	0	18.21	18.15	18.33			
10	64QAM	50	25	18.21	18.20	18.22	19.7	0	
10	64QAM	50	49	18.21	18.20	18.22			
10	64QAM	50	74	18.21	18.20	18.22			
10	64QAM	100	0	18.21	18.20	18.22			
10	64QAM	100	25	18.21	18.20	18.22	19.7	0	
10	64QAM	100	49	18.21	18.20	18.22			
10	64QAM	100	74	18.21	18.20	18.22			
10	256QAM	1	0	18.10	18.25	18.00			
10	256QAM	1	25	18.19	18.25	17.99	19.7	0	
10	256QAM	1	49	18.24	18.25	18.02			
10	256QAM	1	74	18.18	18.20	18.14			
10	256QAM	25	0	18.20	18.18	18.26			
10	256QAM	25	25	18.26	18.27	18.27	19.7	0	
10	256QAM	25	49	18.25	18.25	18.25			
10	256QAM	25	74	18.25	18.25	18.25			
10	256QAM	50	0	18.21	18.15	18.33			
10	256QAM	50	25	18.21	18.20	18.22	19.7	0	
10	256QAM	50	49	18.21	18.20	18.22			
10	256QAM	50	74	18.21	18.20	18.22			
10	256QAM	100	0	18.21	18.20	18.22			
10	256QAM	100	25	18.21	18.20	18.22	19.7	0	
10	256QAM	100	49	18.21	18.20	18.22			
10	256QAM	100	74	18.21	18.20	18.22			

Band 4 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. 1/Freq.	Power Ch. 2/Freq.	Power Ch. 3/Freq.	Turn-up Time (min)	MPR (dB)	MFR (dB)
Channel									
1790 1792.5 1746									
20	QPSK	1	0	16.56	16.62	16.60			
20	QPSK	1	49	16.58	16.62	16.60	18	0	
20	QPSK	1	99	16.48	16.50	16.63			
20	QPSK	50	0	16.56	16.57	16.45			
20	QPSK	50	50	16.52	16.50	16.63	18	0	
20	QPSK	100	0	16.18	16.44	16.40			
20	QPSK	100	50	16.41	16.46	16.57			
20	QPSK	100	99	16.57	16.52	16.48			
20	16QAM	1	0	16.57	16.52	16.42			
20	16QAM	1	49	16.50	16.57	16.27	18	0	
20	16QAM	1	99	16.37	16.52	16.42			
20	16QAM	50	24	16.40	16.52	16.47	18	0	
20	16QAM	50	50	16.26	16.61	16.60			
20	16QAM	50	99	16.57	16.54	16.59			
20	16QAM	100	0	16.51	16.58	16.50			
20	16QAM	100	50	16.37	16.49	16.51	18	0	
20	16QAM	100	99	16.34	16.54	16.42			
20	64QAM	20	24	16.36	16.48	16.41	18	0	
20	64QAM	20	50	16.42	16.56	16.58			
20	64QAM	20	99	16.29	16.28	16.46			
20	64QAM	50	0	16.51	16.49	16.50			
20	64QAM	50	50	16.31	16.59	16.61	18	0	
20	64QAM	50	99	16.29	16.50	16.58			
20	64QAM	100	0	16.29	16.28	16.46			
20	64QAM	100	50	16.42	16.56	16.58	18	0	
20	64QAM	100	99	16.29	16.28	16.46			
20	256QAM	1	0	16.31	16.59	16.61			
20	256QAM	1	49	16.29	16.50	16.58	18	0	
20	256QAM	1	99	16.29	16.50	16.58			
20	256QAM	50	24	16.43	16.39	16.30	18	0	
20	256QAM	50	50	16.34	16.61	16.60			
20	256QAM	50	99	16.30	16.39	16.30			
Channel									
2035 2037.5 2035									
15	QPSK	1	0	17.15	17.12	17.17			
15	QPSK	1	49	16.53	16.56	16.52	19.7	0	
15	QPSK	1	99	16.38	16.44	16.33			



Band 12 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	24.22	24.47	24.29	25	0
10	QPSK	1	25	24.33	24.58	24.33	25	0
10	QPSK	1	49	24.29	24.31	24.27	25	0
10	QPSK	25	0	24.27	24.40	24.31	25	0
10	QPSK	25	12	24.38	24.38	24.38	25	0
10	QPSK	25	25	24.37	24.21	24.32	25	0
10	QPSK	50	0	24.30	24.37	24.30	25	0
10	16QAM	1	0	24.21	24.23	24.27	25	0
10	16QAM	1	25	24.33	24.28	24.32	25	0
10	16QAM	5	49	24.32	24.32	24.30	25	0
10	16QAM	5	25	24.30	24.33	24.33	25	0
10	16QAM	25	12	23.70	23.87	23.85	25	0
10	16QAM	25	25	23.88	23.74	23.73	25	0
10	16QAM	50	0	24.02	24.01	23.83	25	0
10	64QAM	1	0	24.22	24.17	24.25	25	0
10	64QAM	1	25	24.27	24.24	24.28	25	0
10	64QAM	5	49	24.29	24.20	24.28	25	0
10	64QAM	25	0	23.77	23.80	23.83	25	0
10	64QAM	25	12	23.89	23.86	23.87	25	0
10	64QAM	25	25	23.90	23.81	23.81	25	0
10	64QAM	50	0	23.87	23.81	23.83	25	0
10	256QAM	1	0	20.56	20.66	20.59	21	4
10	256QAM	1	25	20.70	20.73	20.65	21	4
10	256QAM	1	49	20.55	20.71	20.60	21	4
10	256QAM	5	25	20.80	20.89	20.69	21	4
10	256QAM	25	12	20.80	20.89	20.69	21	4
10	256QAM	25	25	20.71	20.53	20.57	21	4
10	256QAM	50	0	20.62	20.65	20.50	21	4
Channel								
Frequency (MHz)								
5	QPSK	1	0	24.09	24.22	24.10	25	0
5	QPSK	1	25	24.12	24.12	24.09	25	0
5	QPSK	1	24	24.24	24.24	24.24	25	0
5	QPSK	12	0	24.12	24.24	24.24	25	0
5	QPSK	12	7	24.24	24.24	24.28	25	0
5	QPSK	12	13	24.25	24.11	24.12	25	0
5	QPSK	25	0	24.10	24.26	24.26	25	0
5	16QAM	1	0	24.05	24.07	24.13	25	0
5	16QAM	1	12	24.15	24.22	24.28	25	0
5	16QAM	1	24	24.10	24.20	24.26	25	0
5	16QAM	12	7	23.90	23.90	23.43	25	0
5	16QAM	12	7	23.84	23.50	23.38	25	0
5	16QAM	12	13	23.92	23.85	23.86	25	0
5	16QAM	25	0	23.43	23.39	23.43	25	0
5	64QAM	1	0	23.87	24.00	24.15	25	0
5	64QAM	1	25	24.02	24.02	24.00	25	0
5	64QAM	1	24	24.17	24.02	24.03	25	0
5	64QAM	12	0	23.82	23.54	23.73	25	0
5	64QAM	12	7	23.79	23.70	23.66	25	0
5	64QAM	12	13	23.92	23.87	23.85	25	0
5	64QAM	25	0	23.70	23.59	23.62	25	0
5	256QAM	1	0	18.94	18.88	18.84	19	5
5	256QAM	1	12	18.80	18.82	18.82	19	5
5	256QAM	1	24	18.64	18.89	18.87	19	5
5	256QAM	12	0	18.66	18.66	18.69	19	5
5	256QAM	12	7	18.70	18.87	18.85	19	5
5	256QAM	12	13	18.76	18.80	18.84	19	5
5	256QAM	25	0	18.81	18.47	18.45	19	5
Channel								
Frequency (MHz)								
3	QPSK	1	0	24.05	24.20	24.14	25	0
3	QPSK	1	25	24.11	24.20	24.07	25	0
3	QPSK	1	14	24.05	24.20	24.08	25	0
3	QPSK	3	0	24.07	24.27	24.16	25	0
3	QPSK	3	8	24.33	24.00	24.24	25	0
3	QPSK	8	7	24.23	24.01	24.26	25	0
3	QPSK	8	7	24.23	24.00	24.26	25	0
3	16QAM	1	0	24.04	24.04	24.20	25	0
3	16QAM	1	8	24.10	24.04	24.11	25	0
3	16QAM	1	8	24.15	24.20	24.06	25	0
3	16QAM	8	0	23.44	23.43	23.59	25	0
3	16QAM	8	4	23.81	23.43	23.43	25	0
3	16QAM	15	0	23.51	23.60	23.47	25	0
3	64QAM	1	0	23.81	24.00	24.30	25	0
3	64QAM	1	8	24.02	24.02	24.17	25	0
3	64QAM	1	14	24.23	23.94	24.15	25	0
3	64QAM	8	0	23.74	23.73	23.78	25	0
3	64QAM	8	4	23.83	23.81	23.84	25	0
3	64QAM	8	7	23.70	23.70	23.70	25	0
3	64QAM	15	0	23.75	23.61	23.71	25	0
3	256QAM	1	0	20.50	20.71	20.57	21	4
3	256QAM	1	8	20.67	20.70	20.70	21	4
3	256QAM	1	14	20.47	20.55	20.53	21	4
3	256QAM	3	0	20.46	20.65	20.52	21	4
3	256QAM	8	4	20.80	20.73	20.85	21	4
3	256QAM	8	7	20.81	20.63	20.66	21	4
3	256QAM	15	0	20.52	20.70	20.52	21	4
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	24.22	24.20	24.14	25	0
1.4	QPSK	1	3	24.26	24.30	24.30	25	0
1.4	QPSK	1	5	24.21	24.26	24.27	25	0
1.4	QPSK	3	0	24.31	24.23	24.38	25	0
1.4	QPSK	3	1	24.32	24.30	24.37	25	0
1.4	QPSK	3	3	24.27	24.29	24.38	25	0
1.4	16QAM	1	0	24.30	24.27	24.37	25	0
1.4	16QAM	1	3	24.31	24.32	24.40	25	0
1.4	16QAM	1	5	24.31	24.34	24.38	25	0
1.4	16QAM	3	0	24.22	24.31	24.34	25	0
1.4	16QAM	3	1	24.05	24.10	24.18	25	0
1.4	16QAM	3	3	24.05	24.14	24.08	25	0
1.4	16QAM	6	0	23.73	23.69	23.79	25	0
1.4	64QAM	1	0	24.20	24.30	24.26	25	0
1.4	64QAM	1	3	24.26	24.38	24.28	25	0
1.4	64QAM	1	5	24.11	24.28	24.27	25	0
1.4	64QAM	3	0	24.24	24.11	24.31	25	0
1.4	64QAM	3	1	24.19	24.28	24.29	25	0
1.4	64QAM	3	3	24.13	24.21	24.26	25	0
1.4	64QAM	6	0	23.82	23.70	23.86	25	0
1.4	256QAM	1	0	20.45	20.65	20.47	21	4
1.4	256QAM	1	3	20.60	20.71	20.72	21	4
1.4	256QAM	1	5	20.89	20.94	20.90	21	4
1.4	256QAM	3	0	20.84	20.71	20.80	21	4
1.4	256QAM	3	1	20.75	20.51	20.69	21	4
1.4	256QAM	3	3	20.76	20.43	20.62	21	4
1.4	256QAM	6	0	20.84	20.77	20.85	21	4

Band 13 Ant1 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.89	22.89	22.89	24	0
10	QPSK	1	25	22.89	22.89	22.89	24	0
10	QPSK	1	49	22.81	22.81	22.81	24	0
10	QPSK	25	0	22.85	22.85	22.85	24	0
10	QPSK	25	12	22.85	22.85	22.85	24	0
10	QPSK	25	25	22.13	22.13	22.13	24	0
10	QPSK	50	0	22.46	22.46	22.46	24	0
10	16QAM	1	0	22.22	22.22	22.22	24	0
10	16QAM	1	25	22.43	22.43	22.43	24	0
10	16QAM	1	49	22.10	22.10	22.10	24	0
10	16QAM	25	0	21.54	21.54	21.54	24	0
10	16QAM	25	12	21.22	21.22	21.22	24	1
10	16QAM	25	25	21.88	21.88	21.88	24	1
10	16QAM	50	0	21.88	21.88	21.88	24	1
10	64QAM	1	0	22.22	22.22	22.22	24	0
10	64QAM	1	25	22.36	22.36	22.36	24	0
10	64QAM	1	49	21.55	21.55	21.55	24	0
10	64QAM	25	0	21.55	21.55	21.55	24	0
10	64QAM	25	12	21.21	21.21	21.21	24	1
10	64QAM	25	25	21.59	21.59	21.59	24	1
10	64QAM	50	0	21.59	21.59	21.59	24	1
10	256QAM	1	0	18.85	18.85	18.85	19	5
10	256QAM	1	25	18.75	18.75	18.75	19	5
10	256QAM	1	49	18.84	18.84	18.84	19	5
10	256QAM	5	25	18.55	18.55	18.55	19	5
10	256QAM	5	12	18.50	18.50	18.50	19	5
10	256QAM	25	0	18.87	18.87	18.87	19	5
10	256QAM	25	25	18.43	18.43	18.43	19	5
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.84	22.43	22.79	24	0
5	QPSK	1	12	22.54	22.88	22.84	24	0
5	QPSK	1	24	22.78	22.73	22.47	24	0
5	QPSK	12	0	22.40	22.40	22.65	24	0
5	QPSK	12	7	22.41	22.22	22.54	24	0
5	QPSK	12	13	22.45	22.60	22.25	24	0
5	QPSK	25	0	22.96	22.17	22.49	24	0
5	QPSK	25	0	22.31	22.55	22.59	24	0
5	16QAM	1	0	22.33	22.52	22.59	24	0
5	16QAM	1	12	22.39	22.44	22.37	24	0
5	16QAM	1	24	22.57	22.56	22.81	24	0
5	16QAM	12	0	21.39	21.42	21.79	24	1
5	16QAM	12	7	21.52	21.46	21.82	24	1
5	16QAM	12	13	21.87	21.79	21.88	24	1
5	16QAM	25	0	21.98	21.20	21.66	24	1
5	64QAM	1	0	22.53	22.48	22.46	24	0
5	64QAM							



Band 25 Ant1 DS12 Standalone										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)		
Channel										
1800 1800 1900										
20	QPSK	1	0	18.22	18.43	18.20				
10	QPSK	1	49	18.22	18.24	18.12	19.7	0		
10	QPSK	1	99	18.22	18.21	18.12				
20	QPSK	50	0	18.23	18.43	18.24				
20	QPSK	50	24	18.10	18.34	18.13				
20	QPSK	50	50	18.17	18.27	18.19				
20	QPSK	100	0	18.01	18.35	18.17				
20	16QAM	50	0	18.10	18.15	18.17				
20	16QAM	1	49	18.25	18.30	18.25	19.7	0		
20	16QAM	1	99	18.13	18.15	18.03				
20	16QAM	50	0	18.06	18.09	18.10				
20	16QAM	50	24	18.03	18.01	18.14	19.7	0		
20	16QAM	50	50	17.88	18.14	18.24				
20	16QAM	100	0	18.00	17.98	18.03				
20	64QAM	1	0	17.95	18.23	18.21				
20	64QAM	1	49	18.10	18.29	18.09	19.7	0		
20	64QAM	1	99	18.16	18.05	17.96				
20	64QAM	50	0	18.26	18.10	17.94				
20	64QAM	50	24	17.99	18.18	18.01	19.7	0		
20	64QAM	50	50	18.11	18.26	18.24				
20	256QAM	1	0	18.05	18.19	18.23				
20	256QAM	1	49	18.08	18.13	18.00	19.7	0		
20	256QAM	1	99	18.07	18.11	18.07				
20	256QAM	50	0	18.06	18.08	18.07				
20	256QAM	50	24	18.15	18.08	18.07	19.7	0		
20	256QAM	50	50	18.26	18.32	18.29				
20	256QAM	100	0	18.22	18.30	18.27				
Channel										
2815 2815 2900 2915										
15	QPSK	1	0	18.16	18.35	18.07				
15	QPSK	1	37	18.19	18.18	18.01	19.7	0		
15	QPSK	1	74	18.10	18.10	18.01				
15	QPSK	36	0	18.15	18.23	18.13				
15	QPSK	36	20	17.95	17.94	18.03	19.7	0		
15	QPSK	36	39	18.08	18.10	18.09				
15	QPSK	75	0	17.91	18.29	18.05				
15	16QAM	1	0	17.95	18.07	18.05				
15	16QAM	1	37	18.17	18.24	18.04	19.7	0		
15	16QAM	1	74	18.05	18.05	18.03				
15	16QAM	36	0	17.97	17.93	17.98				
15	16QAM	36	20	17.97	17.87	18.07	19.7	0		
15	16QAM	36	39	18.04	18.04	18.07				
15	16QAM	75	0	17.88	17.78	17.96				
15	64QAM	1	0	17.85	18.18	18.10				
15	64QAM	1	37	18.05	18.05	18.03	19.7	0		
15	64QAM	1	74	18.06	17.92	17.82				
15	64QAM	36	0	18.14	18.01	17.83				
15	64QAM	36	20	18.06	18.06	18.03	19.7	0		
15	64QAM	36	39	18.02	17.97	18.17				
15	64QAM	75	0	18.04	18.18	18.06				
15	256QAM	1	0	17.98	18.08	18.05				
15	256QAM	1	37	18.03	18.07	17.81	19.7	0		
15	256QAM	1	74	17.97	17.99	17.98				
15	256QAM	36	0	18.02	18.04	18.07				
15	256QAM	36	20	18.08	17.95	18.02	19.7	0		
15	256QAM	36	39	18.11	18.24	18.22				
15	256QAM	75	0	18.18	18.30	18.17				
Channel										
2860 2860 2900 2915										
10	QPSK	1	0	18.02	18.30	18.00				
10	QPSK	1	25	18.17	18.17	18.12	19.7	0		
10	QPSK	1	49	18.14	18.16	18.04				
10	QPSK	12	0	18.16	18.08	18.01				
10	QPSK	25	12	18.01	17.94	18.06	19.7	0		
10	QPSK	25	25	18.09	18.18	18.11				
10	16QAM	1	0	17.95	18.29	18.03				
10	16QAM	1	0	17.97	17.97	18.09	19.7	0		
10	16QAM	1	24	18.12	18.16	17.90				
10	16QAM	1	49	18.06	18.08	18.03				
10	16QAM	25	0	17.96	17.91	18.03				
10	16QAM	25	12	17.98	17.87	17.99	19.7	0		
10	16QAM	36	0	18.03	18.08	18.07				
10	16QAM	50	0	17.85	17.80	17.84				
10	64QAM	1	0	17.80	18.17	18.08				
10	64QAM	1	24	18.00	18.00	18.08	19.7	0		
10	64QAM	1	49	18.06	17.93	17.84				
10	64QAM	25	0	18.17	18.01	17.88				
10	64QAM	36	0	18.02	18.02	18.05	19.7	0		
10	64QAM	50	0	18.05	18.16	18.11				
10	256QAM	1	0	17.96	18.14	18.03				
10	256QAM	1	24	17.97	18.08	17.85	19.7	0		
10	256QAM	1	49	17.95	17.97	18.00				
10	256QAM	12	0	18.00	18.00	18.07				
10	256QAM	25	12	18.05	17.94	18.06	19.7	0		
10	256QAM	25	25	18.20	18.25	18.17				
10	256QAM	50	0	18.13	17.99	18.13				
Channel										
2865 2865 2900 2915										
5	QPSK	1	0	18.14	18.30	18.00				
5	QPSK	1	12	18.18	18.15	18.09	19.7	0		
5	QPSK	1	24	18.10	18.08	18.09				
5	QPSK	12	0	18.16	18.14	18.01				
5	QPSK	12	7	18.01	17.91	18.04	19.7	0		
5	QPSK	12	13	18.09	18.16	18.14				
5	QPSK	25	0	17.84	18.20	18.08				
5	16QAM	1	0	18.02	18.04	18.11				
5	16QAM	1	12	18.14	18.18	17.91	19.7	0		
5	16QAM	1	24	18.04	18.00	17.84				
5	16QAM	12	0	17.98	17.92	18.01				
5	16QAM	12	7	17.97	17.88	18.08	19.7	0		
5	16QAM	12	13	17.77	18.02	18.03				
5	16QAM	25	0	17.84	17.78	17.90				
5	64QAM	1	0	17.88	18.14	18.11				
5	64QAM	1	12	17.98	18.22	17.95	19.7	0		
5	64QAM	1	24	18.09	17.95	17.86				
5	64QAM	12	0	18.20	18.06	17.83				
5	64QAM	12	7	17.89	18.03	17.84	19.7	0		
5	64QAM	12	13	17.97	17.96	18.12				
5	64QAM	25	0	18.04	18.24	18.10				
5	256QAM	1	0	17.98	18.05	18.09				
5	256QAM	1	12	18.03	18.01	17.84	19.7	0		
5	256QAM	1	24	17.95	17.99	17.83				
5	256QAM	12	0	17.88	18.13	18.09				
5	256QAM	12	7	18.06	17.96	17.83	19.7	0		
5	256QAM	12	13	18.12	18.24	18.22				
5	256QAM	25	0	18.08	18.10	18.14				
Channel										
2867 2865 2900 2915										
1.4	QPSK	1	0	18.13	18.37	18.17				
1.4	QPSK	1	8	18.17	18.17	18.09	19.7	0		
1.4	QPSK	1	14	18.09	18.12	18.01				
1.4	QPSK	3	0	18.16	18.30	18.14				
1.4	QPSK	3	4	18.03	17.95	18.09	19.7	0		
1.4	QPSK	3	7	18.03	18.22	18.12				
1.4	QPSK	15	0	17.91	18.20	18.12				
1.4	16QAM	1	0	17.96	18.06	18.08				
1.4	16QAM	1	8	18.12	18.22	17.91	19.7	0		
1.4	16QAM	1	14	17.99	18.07	17.86				
1.4	16QAM	3	0	17.95	17.88	18.04	19.7	0		
1.4	16QAM	3	7	17.77	18.09	18.09				
1.4	16QAM	15	0	17.86	17.83	17.89				
1.4	64QAM	1	0	17.87	18.11	18.04				
1.4	64QAM	1	8	17.97	18.21	18.04	19.7	0		
1.4	64QAM	1	14	18.05</						



Band 66 Ant1 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.61	16.62	16.76	17.7	0		
20	QPSK	1	49	16.49	16.51	16.87				
20	QPSK	50	0	16.71	16.77	16.85				
20	QPSK	50	24	16.54	16.46	16.84				
20	QPSK	50	50	16.46	16.69	16.48				
20	QPSK	100	0	16.70	16.73	16.86				
20	16QAM	1	49	16.49	16.49	16.81	17.7	0		
20	16QAM	1	99	16.43	16.45	16.50				
20	16QAM	50	0	16.70	16.73	16.86				
20	16QAM	50	24	16.57	16.49	16.75				
20	16QAM	50	50	16.42	16.39	16.38				
20	64QAM	1	0	16.56	16.70	16.46				
20	64QAM	1	49	16.62	16.60	16.45	17.7	0		
20	64QAM	1	99	16.67	16.65	16.60				
20	64QAM	50	0	16.50	16.67	16.42				
20	64QAM	50	24	16.64	16.56	16.51				
20	64QAM	50	50	16.42	16.54	16.50	17.7	0		
20	256QAM	1	49	16.54	16.53	16.35	17.7	0		
20	256QAM	1	99	16.57	16.53	16.37				
20	256QAM	50	0	16.41	16.58	16.48				
20	256QAM	50	24	16.66	16.49	16.48	17.7	0		
20	256QAM	50	50	16.55	16.73	16.65				
20	256QAM	100	0	16.71	16.52	16.69				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.55	16.60	16.66	17.7	0		
15	QPSK	1	37	16.69	16.56	16.61				
15	QPSK	1	74	16.39	16.42	16.61				
15	QPSK	36	0	16.58	16.72	16.52				
15	QPSK	36	20	16.40	16.36	16.30				
15	QPSK	36	36	16.38	16.53	16.36	17.7	0		
15	QPSK	75	0	16.58	16.61	16.67				
15	16QAM	1	4	16.41	16.39	16.39				
15	16QAM	1	37	16.54	16.42	16.27	17.7	0		
15	16QAM	1	74	16.34	16.44	16.41				
15	16QAM	36	0	16.61	16.62	16.52				
15	16QAM	36	20	16.43	16.47	16.69	17.7	0		
15	16QAM	36	36	16.41	16.56	16.62				
15	16QAM	75	0	16.55	16.20	16.30				
15	64QAM	1	0	16.50	16.61	16.34				
15	64QAM	1	37	16.54	16.55	16.34	17.7	0		
15	64QAM	1	74	16.35	16.45	16.54				
15	64QAM	36	0	16.54	16.60	16.31				
15	64QAM	36	20	16.59	16.46	16.36	17.7	0		
15	64QAM	36	36	16.31	16.41	16.54				
15	64QAM	75	0	16.42	16.60	16.49				
15	256QAM	1	4	16.31	16.45	16.41				
15	256QAM	1	37	16.58	16.40	16.29	17.7	0		
15	256QAM	1	74	16.50	16.38	16.27				
15	256QAM	36	0	16.34	16.54	16.61				
15	256QAM	36	20	16.58	16.38	16.34	17.7	0		
15	256QAM	36	36	16.44	16.65	16.55				
15	256QAM	75	0	16.57	16.46	16.57				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.75	17.45	17.75	17.7	0		
10	QPSK	1	25	16.65	16.51	16.36				
10	QPSK	1	49	16.39	16.41	16.62				
10	QPSK	25	0	16.60	16.70	16.66				
10	QPSK	25	12	16.43	16.42	16.39	17.7	0		
10	QPSK	25	25	16.32	16.52	16.40				
10	QPSK	50	0	16.43	16.55	16.44				
10	16QAM	1	0	16.40	16.34	16.42				
10	16QAM	1	25	16.53	16.49	16.36	17.7	0		
10	16QAM	1	49	16.35	16.40	16.46				
10	16QAM	25	0	16.62	16.60	16.59				
10	16QAM	25	12	16.41	16.56	16.56	17.7	0		
10	16QAM	25	25	16.41	16.56	16.62				
10	16QAM	50	0	16.33	16.23	16.24				
10	64QAM	1	0	16.48	16.63	16.36				
10	64QAM	1	25	16.40	16.50	16.38	17.7	0		
10	64QAM	1	49	16.60	16.40	16.47				
10	64QAM	25	0	16.46	16.57	16.31				
10	64QAM	25	12	16.58	16.43	16.18	17.7	0		
10	64QAM	25	25	16.35	16.44	16.52				
10	64QAM	50	0	16.46	16.65	16.49				
10	256QAM	1	0	16.44	16.50	16.43				
10	256QAM	1	25	16.53	16.40	16.25	17.7	0		
10	256QAM	1	49	16.43	16.44	16.25				
10	256QAM	25	0	16.32	16.53	16.61				
10	256QAM	25	12	16.58	16.37	16.34	17.7	0		
10	256QAM	25	25	16.50	16.62	16.59				
10	256QAM	50	0	16.65	16.42	16.52				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.71	16.72	16.81	17.7	0		
5	QPSK	1	12	16.68	16.50	16.32				
5	QPSK	1	24	16.42	16.44	16.61				
5	QPSK	12	0	16.66	16.63	16.60				
5	QPSK	12	7	16.47	16.50	16.51	17.7	0		
5	QPSK	12	13	16.34	16.57	16.33				
5	QPSK	25	0	16.63	16.62	16.64				
5	16QAM	1	0	16.38	16.34	16.43				
5	16QAM	1	12	16.48	16.47	16.36	17.7	0		
5	16QAM	1	24	16.29	16.40	16.48				
5	16QAM	12	0	16.65	16.63	16.51				
5	16QAM	12	7	16.36	16.47	16.58	17.7	0		
5	16QAM	12	13	16.53	16.50	16.64				
5	16QAM	25	0	16.28	16.22	16.29				
5	64QAM	1	0	16.43	16.65	16.38				
5	64QAM	1	12	16.55	16.49	16.32	17.7	0		
5	64QAM	1	24	16.54	16.42	16.49				
5	64QAM	12	0	16.51	16.54	16.31				
5	64QAM	12	7	16.55	16.49	16.22	17.7	0		
5	64QAM	12	13	16.34	16.49	16.51				
5	64QAM	25	0	16.46	16.60	16.45				
5	256QAM	1	0	16.24	16.38	16.38				
5	256QAM	1	12	16.51	16.40	16.20	17.7	0		
5	256QAM	1	24	16.49	16.47	16.31				
5	256QAM	12	0	16.36	16.53	16.66				
5	256QAM	12	7	16.51	16.38	16.34	17.7	0		
5	256QAM	12	13	16.41	16.36	16.59				
5	256QAM	25	0	16.60	16.43	16.54				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.59	16.43	16.14	17.7	0		
3	QPSK	1	8	16.68	16.54	16.35				
3	QPSK	1	14	16.40	16.45	16.59				
3	QPSK	8	0	16.67	16.69	16.57				
3	QPSK	8	4	16.40	16.39	16.38	17.7	0		
3	QPSK	8	7	16.40	16.57	16.38				
3	QPSK	15	0	16.56	16.62	16.52				
3	16QAM	1	0	16.41	16.39	16.42				
3	16QAM	1	8	16.49	16.45	16.28	17.7	0		
3	16QAM	1	14	16.20	16.40	16.40				
3	16QAM	8	0	16.55	16.60	16.51				
3	16QAM	8	4	16.36	16.50	16.64	17.7	0		
3	16QAM	8	7	16.59	16.59	16.64				
3	16QAM	15	0	16.33	16.20	16.24				
3	64QAM	1	0	16.42	16.60	16.41				
3	64QAM	1	8	16.66	16.62	16.34	17.7	0		
3	64QAM	1	14	16.55	16.46	16.46				
3	64QAM	8	0	16.41	16.62	16.27				
3	64QAM	8	4	16.40	16.46	16.16	17.7	0		
3	64QAM	8	7	16.28	16.45	16				



Band 12 Ant1 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MRR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.15	23.22	23.19				
10	QPSK	1	25	23.03	23.04	23.04			23.7	0
10	QPSK	1	49	23.03	23.04	23.04				
10	QPSK	25	0	23.05	23.02	23.00				
10	QPSK	25	25	23.03	23.02	23.04			23.7	0
10	QPSK	25	50	23.07	23.08	23.03				
10	16QAM	1	0	23.07	23.07	23.04				
10	16QAM	1	25	23.12	23.04	23.06			23.7	0
10	16QAM	1	49	23.03	23.07	23.04				
10	16QAM	25	0	23.06	23.04	23.04				
10	16QAM	25	12	23.22	23.24	23.38			23.7	0
10	16QAM	25	25	23.28	23.25	23.25				
10	16QAM	50	0	23.42	23.32	23.30				
10	84QAM	1	0	23.01	23.06	23.13				
10	84QAM	1	25	22.94	22.77	23.09			23.7	0
10	84QAM	1	49	23.07	23.01	23.07				
10	84QAM	25	0	22.47	22.61	22.39				
10	84QAM	25	12	22.49	22.56	22.62			23.7	0
10	84QAM	25	25	22.55	22.59	22.55				
10	84QAM	50	0	22.39	22.53	22.37				
10	256QAM	1	0	19.27	19.21	19.36				
10	256QAM	1	25	19.38	19.35	19.31			20	3.7
10	256QAM	1	49	19.21	19.37	19.26				
10	256QAM	25	0	19.25	19.32	19.34				
10	256QAM	25	12	19.48	19.35	19.35			20	3.7
10	256QAM	25	25	19.37	19.19	19.23				
10	256QAM	50	0	19.05	19.05	19.05				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.00	23.17	23.11				
5	QPSK	1	24	22.68	22.78	22.87			23.7	0
5	QPSK	12	0	22.94	22.90	22.90				
5	QPSK	12	7	22.92	22.92	22.98			23.7	0
5	QPSK	12	13	22.96	22.84	22.87				
5	QPSK	25	0	22.09	22.44	22.97				
5	16QAM	1	0	22.09	22.44	22.97				
5	16QAM	1	12	22.05	22.72	22.93			23.7	0
5	16QAM	1	24	22.07	22.84	22.79				
5	16QAM	12	7	22.07	22.14	22.22			23.7	0
5	16QAM	12	13	22.21	22.18	22.11				
5	84QAM	1	0	22.89	22.80	23.08				
5	84QAM	1	24	22.35	22.52	22.99			23.7	0
5	84QAM	12	0	22.31	22.51	22.92				
5	84QAM	12	7	22.34	22.44	22.46			23.7	0
5	84QAM	12	13	22.45	22.43	22.45				
5	84QAM	25	0	22.27	22.42	22.81				
5	256QAM	1	0	19.27	19.21	19.23				
5	256QAM	1	24	19.21	19.37	19.23			20	3.7
5	256QAM	12	7	19.34	19.17	19.20			20	3.7
5	256QAM	12	13	19.34	19.16	19.21				
5	256QAM	25	0	19.03	19.03	19.03				
Channel										
Frequency (MHz)										
14	QPSK	1	0	23.01	23.18	23.10				
14	QPSK	1	5	22.92	23.01	23.06				
14	QPSK	1	5	22.81	22.89	22.86			23.7	0
14	QPSK	3	0	22.99	23.05	23.04				
14	QPSK	3	1	22.93	22.91	23.05				
14	QPSK	3	3	23.13	22.88	22.81			23.7	0
14	16QAM	1	0	22.86	22.83	22.88				
14	16QAM	1	0	22.86	22.74	22.88				
14	16QAM	1	3	23.01	22.75	22.92			23.7	0
14	16QAM	1	6	22.96	22.81	22.74				
14	16QAM	3	1	22.11	22.12	22.32				
14	16QAM	3	3	22.24	22.20	22.15				
14	16QAM	6	0	22.31	22.14	22.13			23.7	0
14	84QAM	1	0	22.93	22.81	23.07				
14	84QAM	1	5	22.87	22.93	22.95				
14	84QAM	1	5	22.88	22.84	22.97			23.7	0
14	84QAM	3	0	22.37	22.62	22.34				
14	84QAM	3	2	22.35	22.63	22.49				
14	84QAM	3	3	22.38	22.34	22.49				
14	84QAM	6	0	22.23	22.49	22.25			23.7	0
14	256QAM	1	0	19.11	19.21	19.35				
14	256QAM	1	3	19.28	19.37	19.38				
14	256QAM	1	14	19.13	19.21	19.19			20	3.7
14	256QAM	12	0	19.30	19.37	19.16				
14	256QAM	12	3	19.41	19.17	19.35				
14	256QAM	3	0	19.42	19.09	19.28			20	3.7
14	256QAM	6	0	19.30	19.43	19.24				

Band 13 Ant1 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MRR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.69	22.71	22.65				
10	QPSK	1	25	22.73	22.73	22.73			24	0
10	QPSK	1	49	22.51	22.51	22.51				
10	QPSK	25	0	22.55	22.55	22.55				
10	QPSK	25	25	22.13	22.13	22.13			24	0
10	QPSK	25	50	22.46	22.46	22.46				
10	16QAM	1	0	22.52	22.52	22.52				
10	16QAM	1	25	22.43	22.43	22.43				
10	16QAM	1	49	22.10	22.10	22.10				
10	16QAM	25	0	21.94	21.94	21.94			23	1
10	16QAM	25	12	21.22	21.22	21.22				
10	16QAM	25	25	21.86	21.86	21.86				
10	16QAM	50	0	21.98	21.98	21.98				
10	84QAM	1	0	22.22	22.22	22.22				
10	84QAM	1	25	22.26	22.26	22.26			24	0
10	84QAM	1	49	22.26	22.26	22.26				
10	84QAM	25	0	21.55	21.55	21.55				
10	84QAM	25	12	21.21	21.21	21.21			23	1
10	84QAM	25	25	21.59	21.59	21.59				
10	84QAM	50	0	21.59	21.59	21.59				
10	256QAM	1	0	18.80	18.80	18.80				
10	256QAM	1	25	18.79	18.79	18.79			19	5
10	256QAM	1	49	18.84	18.84	18.84				
10	256QAM	25	0	18.50	18.50	18.50				
10	256QAM	25	12	18.82	18.82	18.82			19	5
10	256QAM	25	25	18.87	18.87	18.87				
10	256QAM	50	0	18.43	18.43	18.43				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.84	22.43	22.79				
5	QPSK	1	24	22.78	22.73	22.47			24	0
5	QPSK	12	0	22.40	22.45	22.85				
5	QPSK	12	7	22.43	22.52	22.54			24	0
5	QPSK	12	13	22.45	22.60	22.25				
5	QPSK	25	0	22.56	22.17	22.40				
5	16QAM	1	0	22.33	22.52	22.59				
5	16QAM	1	12	22.39	22.44	22.37			24	0
5	16QAM	1	24	22.32	22.51	22.51				
5	16QAM	12	7	21.52	21.79	21.82				
5	16QAM	12	13	21.39	21.42	21.79				
5	84QAM	1	0	22.53	22.46	22.48				
5	84QAM	1	24	22.33	22.52	22.41			24	0
5	84QAM	12	0	22.49	22.51	22.58				
5	84QAM	12	7	22.37	22.35	22.63				
5	84QAM	12	13	22.48	22.37	22.39			23	1
5	84QAM	25	0	22.41	22.19	22.84				
5	256QAM	1	0	18.84	18.80	18.84				
5	256QAM	1	24	18.80	18.52	18.52			19	5
5	256QAM	12	0	18.60	18.46	18.68				
5	256QAM	12	7	18.70	18.57	18.55				
5	256QAM	12	13	18.76	18.60	18.54			19	5



Band 25 Ant1 DS2 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MRR (dB)		
Channel										
Frequency (MHz)	1880	1880	1880	1880	1880	1880				
20	QPSK	1	0	17.32	17.43	17.36			18.4	0
20	QPSK	1	68	17.32	17.42	17.35				
20	QPSK	50	0	17.14	17.38	17.31				
20	QPSK	50	19	17.19	17.24	17.28				
20	QPSK	100	0	17.20	17.26	17.23				
20	QPSK	100	99	17.28	17.41	17.34				
20	16QAM	1	68	17.28	17.38	17.33			18.4	0
20	16QAM	1	99	17.38	17.33	17.38				
20	16QAM	50	0	17.28	17.28	17.28				
20	16QAM	50	24	17.23	17.18	17.30			18.4	0
20	16QAM	50	99	17.18	17.26	17.26				
20	16QAM	100	0	17.28	17.23	17.26				
20	16QAM	100	99	17.18	17.33	17.20				
20	64QAM	1	68	17.19	17.28	17.31			18.4	0
20	64QAM	1	99	17.28	17.33	17.36				
20	64QAM	50	0	17.12	17.15	17.13			18.4	0
20	64QAM	50	24	17.18	17.28	17.26				
20	64QAM	50	99	17.18	17.14	17.07				
20	256QAM	1	68	17.28	17.28	17.16			18.4	0
20	256QAM	1	99	17.22	17.24	17.24				
20	256QAM	1	68	17.28	17.28	17.34				
20	256QAM	1	99	17.28	17.28	17.34				
20	256QAM	50	24	17.17	17.15	17.12			18.4	0
20	256QAM	50	99	17.14	17.21	17.13				
20	256QAM	100	0	17.28	17.23	17.26				
20	256QAM	100	99	17.18	17.33	17.20				
Channel										
Frequency (MHz)	1817.5	1880	1907.5	1880	1907.5	1880	Turn-up time (sec)	MRR (dB)		
15	QPSK	1	0	17.20	17.31	17.22			18.4	0
15	QPSK	1	74	17.23	17.28	17.26				
15	QPSK	36	0	17.04	17.33	17.17				
15	QPSK	36	99	17.09	17.07	17.10			18.4	0
15	QPSK	75	0	17.07	17.22	17.08				
15	16QAM	1	37	17.31	17.33	17.29			18.4	0
15	16QAM	1	37	17.13	17.30	17.23				
15	16QAM	1	74	17.23	17.20	17.26				
15	16QAM	36	20	17.10	17.08	17.16			18.4	0
15	16QAM	36	99	17.03	17.20	17.08				
15	16QAM	75	0	17.10	17.15	17.20				
15	64QAM	1	0	17.03	17.26	17.14			18.4	0
15	64QAM	1	0	17.11	17.27	17.16				
15	64QAM	1	74	17.20	17.15	17.33				
15	64QAM	36	0	17.09	17.08	16.99			18.4	0
15	64QAM	36	99	17.07	17.02	17.07				
15	64QAM	75	0	17.08	17.06	17.02				
15	256QAM	1	37	17.31	17.33	17.29			18.4	0
15	256QAM	1	37	17.14	17.18	17.11				
15	256QAM	1	74	17.14	17.30	17.25				
15	256QAM	1	99	17.11	17.11	17.10				
15	256QAM	36	20	17.09	17.05	17.03			18.4	0
15	256QAM	36	99	17.08	17.06	17.03				
15	256QAM	75	0	17.11	17.08	17.03				
Channel										
Frequency (MHz)	1895	1880	1910	1880	1910	1880	Turn-up time (sec)	MRR (dB)		
10	QPSK	1	0	17.18	17.32	17.22			18.4	0
10	QPSK	1	68	17.18	17.32	17.22				
10	QPSK	1	24	17.19	17.29	17.18				
10	QPSK	1	99	17.09	17.13	17.16				
10	QPSK	25	12	17.10	17.16	17.17			18.4	0
10	QPSK	25	25	17.10	17.13	17.16				
10	QPSK	50	0	17.08	17.21	17.13				
10	16QAM	1	26	17.12	17.29	17.26			18.4	0
10	16QAM	1	26	17.21	17.25	17.22				
10	16QAM	1	68	17.12	17.15	17.26				
10	16QAM	25	12	17.17	17.12	17.16			18.4	0
10	16QAM	25	25	17.08	17.18	17.06				
10	16QAM	50	0	17.18	17.12	17.12				
10	64QAM	1	0	17.07	17.26	17.10			18.4	0
10	64QAM	1	0	17.15	17.23	17.16				
10	64QAM	1	68	17.18	17.23	17.23				
10	64QAM	25	0	17.00	17.11	16.96			18.4	0
10	64QAM	25	25	17.02	16.97	17.02				
10	64QAM	50	0	17.04	17.03	16.96				
10	64QAM	50	24	17.21	17.07	17.07				
10	256QAM	1	37	17.17	17.18	17.12			18.4	0
10	256QAM	1	68	17.14	17.25	17.26				
10	256QAM	1	99	17.11	17.11	17.10				
10	256QAM	25	12	17.14	17.07	16.97			18.4	0
10	256QAM	25	25	16.96	17.09	17.07				
10	256QAM	50	0	17.10	17.09	17.12				
Channel										
Frequency (MHz)	1932.5	1880	1912.5	1880	1912.5	1880	Turn-up time (sec)	MRR (dB)		
5	QPSK	1	0	17.15	17.31	17.18			18.4	0
5	QPSK	1	24	17.19	17.29	17.18				
5	QPSK	1	68	17.03	17.16	17.04				
5	QPSK	12	7	17.05	17.09	17.17			18.4	0
5	QPSK	12	13	17.08	17.17	17.22				
5	16QAM	1	26	17.14	17.11	17.12				
5	16QAM	1	26	17.28	17.32	17.24			18.4	0
5	16QAM	1	68	17.12	17.24	17.22				
5	16QAM	12	0	17.19	17.18	17.23				
5	16QAM	12	7	17.10	17.03	17.18			18.4	0
5	16QAM	25	0	17.15	17.10	17.21				
5	64QAM	1	0	17.06	17.28	17.11			18.4	0
5	64QAM	1	0	17.08	17.14	17.23				
5	64QAM	1	24	17.19	17.23	17.27				
5	64QAM	12	0	17.04	17.14	16.98			18.4	0
5	64QAM	12	0	17.09	17.03	16.99				
5	64QAM	12	13	17.08	16.99	17.02				
5	64QAM	25	0	17.04	17.03	17.02				
5	256QAM	1	37	17.26	17.18	17.12			18.4	0
5	256QAM	1	68	17.19	17.09	17.13				
5	256QAM	1	24	17.16	17.29	17.22				
5	256QAM	1	99	17.11	17.11	17.05				
5	256QAM	12	7	17.05	17.03	16.99			18.4	0
5	256QAM	12	13	17.08	17.11	17.08				
5	256QAM	25	0	17.01	17.11	17.09				
Channel										
Frequency (MHz)	1969.5	1880	1969.5	1880	1969.5	1880	Turn-up time (sec)	MRR (dB)		
3	QPSK	1	0	17.17	17.35	17.22			18.4	0
3	QPSK	1	8	17.19	17.33	17.18				
3	QPSK	1	14	17.17	17.31	17.23				
3	QPSK	1	24	17.09	17.29	17.20				
3	QPSK	8	4	17.07	17.12	17.16			18.4	0
3	QPSK	8	7	17.13	17.15	17.14				
3	16QAM	1	0	17.23	17.34	17.22				
3	16QAM	1	8	17.11	17.21	17.24			18.4	0
3	16QAM	1	14	17.28	17.25	17.25				
3	16QAM	8	0	17.13	17.19	17.26				
3	16QAM	8	4	17.12	17.07	17.22			18.4	0
3	16QAM	15	0	17.09	17.17	17.12				
3	16QAM	15	0	17.10	17.18	17.19				
3	64QAM	1	0	17.06	17.28	17.09			18.4	0
3	64QAM	1	0	17.13	17.15	17.11				
3	64QAM	1	14	17.19	17.19	17.31				
3	64QAM	8	0	17.06	17.21	17.09			18.4	0
3	64QAM	8	4	17.09	17.05	17.05				
3	64QAM	8	7	17.08	16.95	17.09				
3	256QAM	1	37	17.20	17.13	17.11			18.4	0
3	256QAM	1	68	17.12	17.16	17.20				
3	256QAM	1	99	17.18	17.20	17.22				
3	256QAM	8	0	16.94	17.17	17.11				
3	256QAM	8	4	17.11	17.02	17.07			18.4	0
3	256QAM	8	7	17.01	17.03	17.01				
3	256QAM	15	0	17.04	17.03	17.12				
Channel										
Frequency (MHz)	2044.5	1880	2044.5	1880	2044.5	1880	Turn-up time (sec)	MRR (dB)		
1.4	QPSK	1	0	17.21	17.36	17.29			18.4	0
1.4	QPSK	1	3	17.19	17.32	17.25				
1.4	QPSK	1	9	17.25	17.31	17.26				
1.4	QPSK	1	15	17.29	17.29	17.23				
1.4	QPSK	3	0	17.11	17.32	17.14				
1.4	16QAM	1	0	17.08	17.14	17.22			18.4	0
1.4	16QAM	1	3	17.28	17.25	17.25				
1.4	16QAM	3	0	17.13	17.19	17.26				
1.4	16QAM	3	4	17.12	17.07	17.22			18.4	0
1.4	16QAM	15	0	17.09	17.17	17.12				
1.4	16QAM	15	0	17.10	17.18	17.19				
1.4	64QAM	1	0	17.06	17.28	17.09			18.4	0
1.4	64QAM	1	0							



Band 71 Ant1 DSI2 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power High Ch. Freq.	Power Mid Ch. Freq.	Turn-up time (ms)	APR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	22.52	22.64	22.56	24	0
20	QPSK	1	48	22.39	22.59	22.54		
20	QPSK	1	96	22.44	22.41	22.35		
20	QPSK	50	0	21.53	21.74	21.68	23	1
20	QPSK	50	24	21.59	21.72	21.67		
20	QPSK	50	50	21.52	21.60	21.53		
20	QPSK	100	0	21.60	21.69	21.66	23	1
20	16QAM	1	0	21.85	21.86	21.82		
20	16QAM	1	48	21.89	21.83	21.76		
20	16QAM	1	96	21.65	21.65	21.65	22	2
20	16QAM	50	0	20.98	20.74	20.86		
20	16QAM	50	24	20.72	20.73	20.74		
20	16QAM	50	50	20.49	20.35	20.50	21	3
20	16QAM	100	0	20.63	20.85	20.85		
20	64QAM	1	0	20.74	20.69	20.62		
20	64QAM	1	48	20.47	20.38	20.43	22	2
20	64QAM	1	96	20.44	20.66	20.64		
20	64QAM	50	0	19.76	19.80	19.59		
20	64QAM	50	24	19.52	19.72	19.66	21	3
20	64QAM	50	50	19.37	19.26	19.65		
20	64QAM	100	0	19.67	19.79	19.58		
20	256QAM	1	0	18.86	18.79	18.71	20	4
20	256QAM	1	48	18.81	18.65	18.58		
20	256QAM	1	96	18.57	18.71	18.67		
20	256QAM	50	0	18.09	18.08	18.02	20	4
20	256QAM	50	24	18.91	18.93	18.87		
20	256QAM	50	50	18.90	18.72	18.90		
20	256QAM	100	0	18.53	18.67	18.58		
Channel								
Frequency (MHz)								
15	QPSK	1	0	22.52	22.61	22.50	24	0
15	QPSK	1	37	22.23	22.46	22.48		
15	QPSK	1	74	22.23	22.43	22.28		
15	QPSK	36	0	21.39	21.73	21.48	23	1
15	QPSK	36	20	21.38	21.52	21.63		
15	QPSK	36	39	21.38	21.56	21.47		
15	QPSK	75	0	21.45	21.59	21.58	23	1
15	16QAM	1	0	21.68	21.65	21.73		
15	16QAM	1	37	21.52	21.42	21.38		
15	16QAM	1	74	21.52	21.64	21.44	22	2
15	16QAM	36	0	20.68	20.54	20.66		
15	16QAM	36	20	20.58	20.63	20.64		
15	16QAM	36	39	20.36	20.46	20.23	21	3
15	16QAM	75	0	20.54	20.63	20.59		
15	64QAM	1	0	20.52	20.70	20.45		
15	64QAM	1	37	20.37	20.56	20.28	22	2
15	64QAM	1	74	20.32	20.44	20.33		
15	64QAM	36	0	19.86	19.59	19.61		
15	64QAM	36	20	19.36	19.61	19.65	21	3
15	64QAM	36	39	19.39	19.47	19.51		
15	64QAM	75	0	19.69	19.74	19.53		
15	256QAM	1	0	18.59	18.58	18.61	20	4
15	256QAM	1	37	18.54	18.67	18.49		
15	256QAM	1	74	18.38	18.66	18.67		
15	256QAM	36	0	18.91	18.86	18.91	20	4
15	256QAM	36	20	18.59	18.93	18.72		
15	256QAM	36	39	18.67	18.64	18.90		
15	256QAM	75	0	18.58	18.64	18.58		
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.42	22.56	22.43	24	0
10	QPSK	1	26	22.32	22.41	22.53		
10	QPSK	1	49	22.33	22.23	22.15		
10	QPSK	25	0	21.54	21.68	21.48	23	1
10	QPSK	25	12	21.43	21.66	21.65		
10	QPSK	25	25	21.32	21.41	21.53		
10	QPSK	50	0	21.55	21.67	21.60	23	1
10	16QAM	1	0	21.85	21.65	21.61		
10	16QAM	1	26	21.49	21.47	21.36		
10	16QAM	1	49	21.61	21.56	21.61	22	2
10	16QAM	25	0	20.55	20.64	20.63		
10	16QAM	25	12	20.66	20.57	20.73		
10	16QAM	25	25	20.38	20.37	20.46	22	2
10	16QAM	50	0	20.59	20.62	20.44		
10	64QAM	1	0	20.72	20.48	20.42		
10	64QAM	1	26	20.30	20.50	20.28	22	2
10	64QAM	1	49	20.39	20.51	20.34		
10	64QAM	25	0	19.70	19.63	19.58		
10	64QAM	25	12	19.51	19.26	19.58	21	3
10	64QAM	25	25	19.43	19.53	19.44		
10	64QAM	50	0	19.53	19.66	19.44		
10	256QAM	1	0	18.60	18.73	18.72	20	4
10	256QAM	1	26	18.54	18.47	18.62		
10	256QAM	1	49	18.38	18.55	18.49		
10	256QAM	25	0	19.02	18.90	18.97	20	4
10	256QAM	25	12	18.74	18.95	18.84		
10	256QAM	25	25	18.69	18.74	18.71		
10	256QAM	50	0	18.41	18.61	18.62		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.42	22.45	22.43	24	0
5	QPSK	1	12	22.37	22.54	22.37		
5	QPSK	1	24	22.37	22.37	22.17		
5	QPSK	12	0	21.52	21.68	21.64	23	1
5	QPSK	12	7	21.38	21.53	21.61		
5	QPSK	12	13	21.40	21.69	21.54		
5	QPSK	25	0	21.58	21.65	21.62	23	1
5	16QAM	1	0	21.67	21.69	21.75		
5	16QAM	1	12	21.52	21.46	21.50		
5	16QAM	1	24	21.60	21.63	21.54	22	2
5	16QAM	12	0	20.59	20.63	20.63		
5	16QAM	12	7	20.69	20.75	20.67		
5	16QAM	12	13	20.42	20.35	20.30	22	2
5	16QAM	25	0	20.51	20.47	20.68		
5	64QAM	1	0	20.63	20.83	20.47		
5	64QAM	1	12	20.36	20.54	20.41	22	2
5	64QAM	1	24	20.38	20.59	20.50		
5	64QAM	12	0	19.66	19.59	19.51		
5	64QAM	12	7	19.48	19.69	19.65	21	3
5	64QAM	12	13	19.41	19.41	19.83		
5	64QAM	25	0	19.59	19.96	19.85		
5	256QAM	1	0	18.60	18.70	18.68	20	4
5	256QAM	1	12	18.41	18.51	18.50		
5	256QAM	1	24	18.53	18.62	18.46		
5	256QAM	12	0	18.88	18.91	18.89	20	4
5	256QAM	12	7	18.79	18.84	18.85		
5	256QAM	12	13	18.75	18.86	18.76		
5	256QAM	25	0	18.43	18.61	18.58		



Band 38 Ant1 DS12 Standalone										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up time (min)	MPR (dB)		
Channel										
Frequency (MHz)				37650	38000	38150				
20	QPSK	1	0	18.36	18.36	18.36				
20	QPSK	1	49	18.33	18.35	18.38	20.1	0		
20	QPSK	1	99	18.31	18.31	18.31				
20	QPSK	50	0	18.37	18.38	18.44				
20	QPSK	50	24	18.42	18.32	18.40	20.1	0		
20	QPSK	50	49	18.36	18.37	18.39				
20	QPSK	100	0	18.43	18.49	18.46				
20	QPSK	100	24	18.54	18.59	18.41	20.1	0		
20	QPSK	100	49	18.36	18.37	18.41				
20	QPSK	500	0	18.46	18.47	18.50				
20	QPSK	500	24	18.42	18.42	18.41	20.1	0		
20	QPSK	500	49	18.46	18.47	18.50				
20	QPSK	1000	0	18.58	18.51	18.58				
20	QPSK	1000	24	18.46	18.49	18.46	20.1	0		
20	QPSK	1000	49	18.36	18.31	18.41				
20	QPSK	5000	0	18.41	18.49	18.48				
20	QPSK	5000	24	18.48	18.49	18.44	20.1	0		
20	QPSK	5000	49	18.44	18.42	18.41				
20	QPSK	10000	0	18.41	18.59	18.48				
20	QPSK	10000	24	18.41	18.59	18.48	20.1	0		
20	QPSK	10000	49	18.41	18.59	18.48				
20	QPSK	50000	0	18.51	18.53	18.44				
20	QPSK	50000	24	18.45	18.53	18.46	20	0.1		
20	QPSK	50000	49	18.45	18.53	18.46				
20	QPSK	50000	24	18.39	18.51	18.55				
20	QPSK	50000	50	18.44	18.42	18.28	20	0.1		
20	QPSK	50000	100	0	18.44	18.50				
Channel										
Frequency (MHz)				37650	38000	38150				
15	QPSK	1	0	18.52	18.52	18.52				
15	QPSK	1	37	18.40	18.34	18.33	20.1	0		
15	QPSK	1	74	18.43	18.53	18.37				
15	QPSK	36	0	18.43	18.53	18.39				
15	QPSK	36	20	18.52	18.29	18.48	20.1	0		
15	QPSK	36	39	18.40	18.46	18.55				
15	QPSK	75	0	18.51	18.46	18.55				
15	QPSK	75	1	18.58	18.58	18.42	20.1	0		
15	QPSK	75	14	18.38	18.38	18.32				
15	QPSK	36	0	18.59	18.49	18.51				
15	QPSK	36	20	18.52	18.52	18.51	20.1	0		
15	QPSK	36	39	18.31	18.24	18.21				
15	QPSK	75	0	18.45	18.48	18.43				
15	QPSK	75	1	18.53	18.58	18.60	20.1	0		
15	QPSK	75	14	18.41	18.41	18.41				
15	QPSK	36	0	18.53	18.58	18.61				
15	QPSK	36	20	18.41	18.41	18.41	20.1	0		
15	QPSK	36	39	18.45	18.46	18.45				
15	QPSK	75	0	18.45	18.46	18.45				
15	QPSK	75	1	18.54	18.58	18.61	20.1	0		
15	QPSK	75	14	18.35	18.39	18.42				
15	QPSK	36	0	18.57	18.60	18.55	18.64	18.51	20.1	0
15	QPSK	36	20	18.58	18.59	18.59				
15	QPSK	36	39	18.53	18.59	18.49	18.61	18.51	20.1	0
15	QPSK	75	0	18.53	18.58	18.43	18.62	18.43	20.1	0
15	QPSK	75	1	18.71	18.50	18.57	18.67	18.74	20.1	0
15	QPSK	75	14	18.63	18.52	18.49	18.60	18.49	20.1	0
15	QPSK	36	0	18.54	18.61	18.57	18.58	18.58	20.1	0
15	QPSK	36	20	18.47	18.46	18.45	18.43	18.43	20.1	0
15	QPSK	36	39	18.41	18.41	18.41	18.39	18.42	20.1	0
15	QPSK	75	0	18.45	18.46	18.45	18.44	18.43	20.1	0
15	QPSK	75	1	18.54	18.58	18.65	18.59	18.57	20.1	0
15	QPSK	75	14	18.45	18.47	18.42	18.67	18.67	20.1	0
15	QPSK	75	15	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	16	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	17	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	18	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	19	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	20	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	21	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	22	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	23	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	24	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	25	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	26	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	27	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	28	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	29	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	30	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	31	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	32	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	33	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	34	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	35	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	36	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	37	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	38	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	39	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	40	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	41	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	42	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	43	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	44	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	45	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	46	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	47	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	48	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	49	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	50	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	51	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	52	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	53	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	54	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	55	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	56	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	57	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	58	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	59	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	60	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	61	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	62	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	63	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	64	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	65	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	66	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	67	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75	68	18.40	18.37	18.48	18.52	18.40	20.1	0
15	QPSK	75								



Band 48 Ant2 DSI2 Standalone

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.30	22.46	22.50	22.33	24	0
20	QPSK	1	49	22.46	22.32	22.48	22.29		
20	QPSK	1	99	22.37	22.31	22.46	22.40		
20	QPSK	50	0	21.46	21.38	21.44	21.41		
20	QPSK	50	24	21.33	21.42	21.49	21.43	23	1
20	QPSK	50	50	21.57	21.41	21.58	21.45		
20	QPSK	100	0	21.28	21.44	21.46	21.38		
20	16QAM	1	0	21.32	21.44	21.44	21.23		
20	16QAM	1	49	21.52	21.50	21.53	21.48	23	1
20	16QAM	1	99	21.44	21.31	21.50	21.44		
20	16QAM	50	0	20.33	20.47	20.46	20.45		
20	16QAM	50	24	20.42	20.44	20.49	20.49		
20	16QAM	50	50	20.49	20.57	20.57	20.57	22	2
20	16QAM	100	0	20.48	20.39	20.47	20.40		
20	64QAM	1	0	20.34	20.33	20.48	20.48		
20	64QAM	1	49	20.23	20.29	20.42	20.38		
20	64QAM	1	99	20.42	20.34	20.41	20.34	22	2
20	64QAM	50	0	19.23	19.23	19.35	19.20		
20	64QAM	50	24	19.31	19.35	19.44	19.40		
20	64QAM	50	50	19.51	19.54	19.53	19.55		
20	64QAM	100	0	19.25	19.29	19.37	19.36	21	3
20	256QAM	1	0	17.33	17.24	17.39	17.28		
20	256QAM	1	49	17.46	17.53	17.51	17.37		
20	256QAM	1	99	17.31	17.38	17.41	17.28		
20	256QAM	50	0	17.36	17.35	17.45	17.27	19	5
20	256QAM	50	24	17.25	17.34	17.46	17.28		
20	256QAM	50	50	17.52	17.51	17.55	17.33		
20	256QAM	100	0	17.38	17.42	17.43	17.40		
Channel				55315	55820	56180	56685		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.15	22.38	22.39	22.18	24	0
15	QPSK	1	37	22.32	22.33	22.32	22.21		
15	QPSK	1	74	22.28	22.19	22.27	22.33		
15	QPSK	36	0	21.25	21.23	21.43	21.36		
15	QPSK	36	20	21.19	21.31	21.40	21.27	23	1
15	QPSK	36	39	21.43	21.22	21.50	21.34		
15	QPSK	75	0	21.20	21.44	21.35	21.31		
15	16QAM	1	0	21.22	21.29	21.23	21.11		
15	16QAM	1	37	21.53	21.50	21.31	21.34	23	1
15	16QAM	1	74	21.23	21.26	21.38	21.31		
15	16QAM	36	0	20.15	20.38	20.30	20.25		
15	16QAM	36	20	20.40	20.23	20.31	20.27		
15	16QAM	36	39	20.35	20.49	20.56	20.47	22	2
15	16QAM	75	0	20.28	20.23	20.44	20.26		
15	64QAM	1	0	20.26	20.15	20.32	20.32		
15	64QAM	1	37	20.06	20.13	20.27	20.36		
15	64QAM	1	74	20.41	20.25	20.32	20.26	22	2
15	64QAM	36	0	19.03	19.11	19.25	19.09		
15	64QAM	36	20	19.17	19.16	19.43	19.37		
15	64QAM	36	39	19.30	19.39	19.44	19.50		
15	64QAM	75	0	19.25	19.29	19.33	19.36	21	3
15	256QAM	1	0	17.26	17.18	17.39	17.17		
15	256QAM	1	37	17.40	17.50	17.52	17.30		
15	256QAM	1	74	17.17	17.24	17.34	17.15		
15	256QAM	36	0	17.28	17.15	17.28	17.25	19	5
15	256QAM	36	20	17.08	17.17	17.36	17.16		
15	256QAM	36	39	17.51	17.30	17.43	17.34		
15	256QAM	75	0	17.33	17.29	17.28	17.21		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.10	22.28	22.30	22.11	24	0
10	QPSK	1	25	22.31	22.33	22.41	22.11		
10	QPSK	1	49	22.21	22.31	22.32	22.41		
10	QPSK	25	0	21.30	21.28	21.33	21.24		
10	QPSK	25	12	21.19	21.32	21.48	21.25	23	1
10	QPSK	25	25	21.53	21.36	21.39	21.35		
10	QPSK	50	0	21.21	21.35	21.42	21.30		
10	16QAM	1	0	21.28	21.31	21.34	21.15		
10	16QAM	1	25	21.40	21.49	21.50	21.29	23	1
10	16QAM	1	49	21.34	21.27	21.49	21.45		
10	16QAM	25	0	20.27	20.33	20.32	20.27		
10	16QAM	25	12	20.35	20.35	20.33	20.38		
10	16QAM	25	25	20.50	20.50	20.41	20.43	22	2
10	16QAM	50	0	20.40	20.36	20.40	20.26		
10	64QAM	1	0	20.13	20.34	20.50	20.45		
10	64QAM	1	25	20.19	20.08	20.28	20.18		
10	64QAM	1	49	20.28	20.34	20.31	20.25	22	2
10	64QAM	25	0	19.21	19.20	19.37	19.01		
10	64QAM	25	12	19.14	19.20	19.44	19.39		
10	64QAM	25	25	19.34	19.47	19.46	19.48		
10	64QAM	50	0	19.24	19.13	19.23	19.20	21	3
10	256QAM	1	0	17.18	17.21	17.19	17.25		
10	256QAM	1	25	17.47	17.52	17.51	17.15		
10	256QAM	1	49	17.10	17.17	17.39	17.27		
10	256QAM	25	0	17.25	17.34	17.32	17.11	19	5
10	256QAM	25	12	17.09	17.34	17.34	17.20		
10	256QAM	25	25	17.53	17.46	17.48	17.12		
10	256QAM	50	0	17.30	17.38	17.35	17.38		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.26	22.26	22.44	22.19	24	0
5	QPSK	1	12	22.27	22.19	22.35	22.24		
5	QPSK	1	24	22.34	22.12	22.39	22.29		
5	QPSK	12	0	21.35	21.37	21.35	21.26		
5	QPSK	12	7	21.27	21.43	21.39	21.26	23	1
5	QPSK	12	13	21.66	21.43	21.54	21.25		
5	QPSK	25	0	21.25	21.43	21.38	21.32		
5	16QAM	1	0	21.10	21.39	21.36	21.21		
5	16QAM	1	12	21.42	21.47	21.32	21.47	23	1
5	16QAM	1	24	21.38	21.12	21.50	21.24		
5	16QAM	12	0	20.35	20.43	20.29	20.41		
5	16QAM	12	7	20.29	20.23	20.37	20.28		
5	16QAM	12	13	20.29	20.56	20.46	20.36	22	2
5	16QAM	25	0	20.30	20.34	20.42	20.34		
5	64QAM	1	0	20.22	20.23	20.31	20.30		
5	64QAM	1	12	20.18	20.09	20.21	20.40		
5	64QAM	1	24	20.41	20.27	20.31	20.14	22	2
5	64QAM	12	0	19.01	19.16	19.15	19.08		
5	64QAM	12	7	19.24	19.14	19.30	19.20		
5	64QAM	12	13	19.46	19.51	19.44	19.49		
5	64QAM	25	0	19.12	19.20	19.24	19.29	21	3
5	256QAM	1	0	17.13	17.06	17.24	17.16		
5	256QAM	1	12	17.43	17.54	17.33	17.20		
5	256QAM	1	24	17.23	17.23	17.35	17.27		
5	256QAM	12	0	17.32	17.19	17.41	17.11	19	5
5	256QAM	12	7	17.14	17.34	17.46	17.17		
5	256QAM	12	13	17.32	17.45	17.42	17.28		
5	256QAM	25	0	17.17	17.43	17.39	17.41		



Band 48 Ant2 DSI2 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.30	22.46	22.50	22.33	24	0
20	QPSK	1	49	22.46	22.32	22.48	22.29		
20	QPSK	1	99	22.37	22.31	22.46	22.40		
20	QPSK	50	0	21.46	21.38	21.44	21.41		
20	QPSK	50	24	21.33	21.42	21.49	21.43	23	1
20	QPSK	50	50	21.57	21.41	21.58	21.45		
20	QPSK	100	0	21.28	21.44	21.46	21.38		
20	16QAM	1	0	21.32	21.44	21.44	21.23		
20	16QAM	1	49	21.52	21.50	21.53	21.48	23	1
20	16QAM	1	99	21.44	21.31	21.50	21.44		
20	16QAM	50	0	20.33	20.47	20.46	20.45		
20	16QAM	50	24	20.42	20.44	20.49	20.49		
20	16QAM	50	50	20.49	20.57	20.57	20.57	22	2
20	16QAM	100	0	20.48	20.39	20.47	20.40		
20	64QAM	1	0	20.34	20.33	20.48	20.48		
20	64QAM	1	49	20.23	20.29	20.42	20.38		
20	64QAM	1	99	20.42	20.34	20.41	20.34	22	2
20	64QAM	50	0	19.23	19.23	19.35	19.20		
20	64QAM	50	24	19.31	19.35	19.44	19.40		
20	64QAM	50	50	19.51	19.54	19.53	19.55		
20	64QAM	100	0	19.25	19.29	19.37	19.36	21	3
20	256QAM	1	0	17.33	17.24	17.39	17.28		
20	256QAM	1	49	17.46	17.53	17.51	17.37		
20	256QAM	1	99	17.31	17.38	17.41	17.28		
20	256QAM	50	0	17.36	17.35	17.45	17.27	19	5
20	256QAM	50	24	17.25	17.34	17.46	17.28		
20	256QAM	50	50	17.52	17.51	17.55	17.33		
20	256QAM	100	0	17.38	17.42	17.43	17.40		
Channel				55315	55820	56180	56655		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.15	22.38	22.39	22.18	24	0
15	QPSK	1	37	22.32	22.33	22.32	22.21		
15	QPSK	1	74	22.28	22.19	22.27	22.33		
15	QPSK	36	0	21.25	21.23	21.43	21.36		
15	QPSK	36	20	21.19	21.31	21.40	21.27	23	1
15	QPSK	36	39	21.43	21.22	21.50	21.34		
15	QPSK	75	0	21.20	21.44	21.35	21.31		
15	16QAM	1	0	21.22	21.29	21.23	21.11		
15	16QAM	1	37	21.53	21.50	21.31	21.34	23	1
15	16QAM	1	74	21.23	21.26	21.38	21.31		
15	16QAM	36	0	20.15	20.38	20.30	20.25		
15	16QAM	36	20	20.40	20.23	20.31	20.27		
15	16QAM	36	39	20.35	20.49	20.56	20.47	22	2
15	16QAM	75	0	20.28	20.23	20.44	20.26		
15	64QAM	1	0	20.26	20.15	20.32	20.32		
15	64QAM	1	37	20.06	20.13	20.27	20.36		
15	64QAM	1	74	20.41	20.25	20.32	20.26	22	2
15	64QAM	36	0	19.03	19.11	19.25	19.09		
15	64QAM	36	20	19.17	19.16	19.43	19.37		
15	64QAM	36	39	19.30	19.39	19.44	19.50		
15	64QAM	75	0	19.25	19.29	19.33	19.36	21	3
15	256QAM	1	0	17.26	17.18	17.39	17.17		
15	256QAM	1	37	17.40	17.50	17.52	17.30		
15	256QAM	1	74	17.17	17.24	17.34	17.15		
15	256QAM	36	0	17.28	17.15	17.28	17.25	19	5
15	256QAM	36	20	17.08	17.17	17.36	17.16		
15	256QAM	36	39	17.51	17.30	17.43	17.34		
15	256QAM	75	0	17.33	17.29	17.28	17.21		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.10	22.28	22.30	22.11	24	0
10	QPSK	1	25	22.31	22.33	22.41	22.11		
10	QPSK	1	49	22.21	22.31	22.32	22.41		
10	QPSK	25	0	21.30	21.28	21.33	21.24		
10	QPSK	25	12	21.19	21.32	21.48	21.25	23	1
10	QPSK	25	25	21.53	21.36	21.39	21.35		
10	QPSK	50	0	21.21	21.35	21.42	21.30		
10	16QAM	1	0	21.28	21.31	21.34	21.15		
10	16QAM	1	25	21.40	21.49	21.50	21.29	23	1
10	16QAM	1	49	21.34	21.27	21.49	21.45		
10	16QAM	25	0	20.27	20.33	20.32	20.27		
10	16QAM	25	12	20.35	20.35	20.33	20.38		
10	16QAM	25	25	20.50	20.50	20.41	20.43	22	2
10	16QAM	50	0	20.40	20.36	20.40	20.26		
10	64QAM	1	0	20.13	20.34	20.50	20.45		
10	64QAM	1	25	20.19	20.08	20.28	20.18		
10	64QAM	1	49	20.28	20.34	20.31	20.25	22	2
10	64QAM	25	0	19.21	19.20	19.37	19.01		
10	64QAM	25	12	19.14	19.20	19.44	19.39		
10	64QAM	25	25	19.34	19.47	19.46	19.48		
10	64QAM	50	0	19.24	19.13	19.23	19.20	21	3
10	256QAM	1	0	17.18	17.21	17.19	17.25		
10	256QAM	1	25	17.47	17.52	17.51	17.15		
10	256QAM	1	49	17.10	17.17	17.39	17.27		
10	256QAM	25	0	17.25	17.34	17.32	17.11	19	5
10	256QAM	25	12	17.09	17.34	17.34	17.20		
10	256QAM	25	25	17.53	17.46	17.46	17.12		
10	256QAM	50	0	17.30	17.38	17.35	17.38		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.26	22.26	22.44	22.19	24	0
5	QPSK	1	12	22.27	22.19	22.35	22.24		
5	QPSK	1	24	22.34	22.12	22.39	22.29		
5	QPSK	12	0	21.35	21.37	21.35	21.26		
5	QPSK	12	7	21.27	21.43	21.39	21.26	23	1
5	QPSK	12	13	21.56	21.43	21.54	21.25		
5	QPSK	25	0	21.25	21.43	21.38	21.32		
5	16QAM	1	0	21.10	21.39	21.36	21.21		
5	16QAM	1	12	21.42	21.47	21.32	21.47	23	1
5	16QAM	1	24	21.38	21.12	21.50	21.24		
5	16QAM	12	0	20.35	20.43	20.29	20.41		
5	16QAM	12	7	20.29	20.23	20.37	20.28		
5	16QAM	12	13	20.29	20.56	20.46	20.36	22	2
5	16QAM	25	0	20.30	20.34	20.42	20.34		
5	64QAM	1	0	20.22	20.23	20.31	20.30		
5	64QAM	1	12	20.18	20.09	20.21	20.40		
5	64QAM	1	24	20.41	20.27	20.31	20.14	22	2
5	64QAM	12	0	19.01	19.16	19.15	19.08		
5	64QAM	12	7	19.24	19.14	19.30	19.20		
5	64QAM	12	13	19.46	19.51	19.44	19.49		
5	64QAM	25	0	19.12	19.20	19.24	19.29	21	3
5	256QAM	1	0	17.13	17.06	17.24	17.16		
5	256QAM	1	12	17.43	17.54	17.33	17.20		
5	256QAM	1	24	17.23	17.23	17.35	17.27		
5	256QAM	12	0	17.32	17.19	17.41	17.11	19	5
5	256QAM	12	7	17.14	17.34	17.46	17.17		
5	256QAM	12	13	17.32	17.45	17.42	17.28		
5	256QAM	25	0	17.17	17.43	17.39	17.41		



GSM850 Ant0 DSIS Standalone				Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel				128	189	251		128	189	251	
Frequency (MHz)				824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot				32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 1 Tx slot				32.52	32.27	32.21	33.50	23.52	23.27	23.21	24.50
GPRS 2 Tx slots				29.72	29.46	29.37	30.00	23.72	23.46	23.37	24.00
GPRS 3 Tx slots				27.89	28.02	27.82	28.80	23.63	23.76	23.66	24.54
GPRS 4 Tx slots				26.57	26.32	26.18	27.50	23.57	23.32	23.18	24.50
EDGE 1 Tx slot				25.29	25.38	25.33	27.00	16.29	16.38	16.33	18.00
EDGE 2 Tx slots				23.54	23.76	23.74	25.00	17.54	17.76	17.74	19.00
EDGE 3 Tx slots				22.31	22.45	22.39	24.00	18.05	18.19	18.13	19.74
EDGE 4 Tx slots				20.21	20.43	20.30	22.00	17.21	17.43	17.30	19.00

GSM1900 Ant0 DSIS Standalone				Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel				512	661	810		512	661	810	
Frequency (MHz)				1850.2	1880	1909.8	1850.2	1880	1909.8		
GSM 1 Tx slot				27.77	27.79	27.68	28.60	18.77	18.79	18.68	19.60
GPRS 1 Tx slot				27.77	27.79	27.68	28.60	18.77	18.79	18.68	19.60
GPRS 2 Tx slots				24.76	24.87	24.79	25.60	18.76	18.87	18.79	19.60
GPRS 3 Tx slots				22.91	22.93	22.86	23.90	18.65	18.67	18.60	19.64
GPRS 4 Tx slots				21.45	21.78	21.55	22.60	18.45	18.78	18.55	19.60
EDGE 1 Tx slot				25.18	25.27	25.16	26.50	16.18	16.27	16.16	17.50
EDGE 2 Tx slots				23.60	23.76	23.67	24.50	17.60	17.78	17.67	18.50
EDGE 3 Tx slots				22.48	22.66	22.56	23.50	18.22	18.40	18.30	19.24
EDGE 4 Tx slots				20.24	20.35	20.31	21.00	17.24	17.35	17.31	18.00

Band		WCDMA II Ant0 DSIS Standalone			Tune-up Limit (dBm)	WCDMA IV Ant0 DSIS Standalone			Tune-up Limit (dBm)	WCDMA V Ant0 DSIS Standalone			Tune-up Limit (dBm)
TX Channel		832.8	940.0	953.8		1312	1413	1513		4132	4182	4233	
Rx Channel		965.2	990.0	993.8	1537	1638	1738	4357	4407	4488			
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	626.4	636.4	646.6			
3GPP Rel 99	AMR 12.2Kbps	17.24	17.36	17.28	18.60	17.85	17.94	17.82	18.70	22.27	22.39	22.33	23.30
3GPP Rel 99	RMC 12.2Kbps	17.42	17.47	17.46	18.60	17.94	18.06	17.89	18.70	22.36	22.51	22.44	23.30
3GPP Rel 6	HSDPA Subtest-1	16.45	16.56	16.37	17.60	17.06	17.03	16.97	17.70	21.47	21.61	21.59	23.30
3GPP Rel 6	HSDPA Subtest-2	16.53	16.54	16.29	17.60	16.92	17.08	16.88	17.70	21.44	21.61	21.59	23.30
3GPP Rel 6	HSDPA Subtest-3	15.96	15.97	15.84	17.10	16.45	16.58	16.53	17.20	21.03	20.98	21.18	22.80
3GPP Rel 6	HSDPA Subtest-4	15.96	16.02	16.08	17.10	16.43	16.46	16.68	17.20	21.03	21.00	21.14	22.80
3GPP Rel 8	DC-HSDPA Subtest-1	16.30	16.34	16.36	17.60	16.81	16.85	16.86	17.70	21.46	21.41	21.62	22.30
3GPP Rel 8	DC-HSDPA Subtest-2	16.49	16.39	16.15	17.60	16.88	16.88	16.69	17.70	21.38	21.44	21.42	22.30
3GPP Rel 8	DC-HSDPA Subtest-3	15.90	15.95	15.71	17.10	16.35	16.54	16.32	17.20	20.83	20.94	21.04	21.80
3GPP Rel 8	DC-HSDPA Subtest-4	15.82	15.97	15.87	17.10	16.26	16.42	16.29	17.20	20.88	20.92	20.95	21.80
3GPP Rel 6	HSUPA Subtest-1	16.46	16.56	16.50	17.60	16.90	17.13	17.00	17.70	21.61	21.88	21.82	22.30
3GPP Rel 6	HSUPA Subtest-2	14.46	14.45	14.54	15.60	14.89	14.97	15.05	15.70	19.84	19.78	19.94	20.30
3GPP Rel 6	HSUPA Subtest-3	15.59	15.60	15.54	16.60	16.05	16.10	16.10	16.70	20.91	20.78	20.95	21.30
3GPP Rel 6	HSUPA Subtest-4	14.54	14.53	14.51	15.60	14.93	15.12	15.01	15.70	19.88	19.88	19.81	20.30
3GPP Rel 6	HSUPA Subtest-5	16.38	16.46	16.41	17.60	16.84	16.99	16.84	17.70	21.83	21.75	21.78	22.30



GSM850 Ant0 DS13 Simultaneous	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	32.20	22.49	22.51	22.33	23.20
GSM 1 Tx slot	31.49	31.51	31.33	32.20	22.49	22.51	22.33	23.20
GPRS 1 Tx slot	31.49	31.51	31.33	32.20	22.49	22.51	22.33	23.20
GPRS 2 Tx slots	28.26	28.35	28.31	29.20	22.26	22.35	22.31	23.20
GPRS 3 Tx slots	26.55	26.58	26.52	27.50	22.29	22.32	22.26	23.24
GPRS 4 Tx slots	25.31	25.39	25.33	26.20	22.31	22.39	22.33	23.20
EDGE 1 Tx slot	25.29	25.38	25.33	27.00	16.29	16.38	16.33	18.00
EDGE 2 Tx slots	23.54	23.76	23.74	25.00	17.54	17.76	17.74	19.00
EDGE 3 Tx slots	22.31	22.45	22.39	24.00	18.05	18.19	18.13	19.74
EDGE 4 Tx slots	20.21	20.43	20.30	22.00	17.21	17.43	17.30	19.00

GSM1900 Ant0 DS13 Simultaneous	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	24.80	15.07	15.19	15.02	15.80
GSM 1 Tx slot	24.07	24.19	24.02	24.80	15.07	15.19	15.02	15.80
GPRS 1 Tx slot	24.07	24.19	24.02	24.80	15.07	15.19	15.02	15.80
GPRS 2 Tx slots	21.07	21.37	20.94	21.80	15.07	15.37	14.94	15.80
GPRS 3 Tx slots	18.88	18.96	18.79	20.00	14.62	14.70	14.53	15.74
GPRS 4 Tx slots	17.78	17.79	17.62	18.80	14.78	14.79	14.62	15.80
EDGE 1 Tx slot	24.05	24.02	24.09	24.80	15.05	15.02	15.09	15.80
EDGE 2 Tx slots	21.04	21.09	21.04	21.80	15.04	15.09	15.04	15.80
EDGE 3 Tx slots	19.04	19.06	19.05	20.00	14.78	14.80	14.79	15.74
EDGE 4 Tx slots	17.67	17.61	17.65	18.80	14.67	14.61	14.65	15.80

Band	WCDMA II Ant0 DS13 Simultaneous			Tune-up Limit (dBm)	WCDMA IV Ant0 DS13 Simultaneous			Tune-up Limit (dBm)	WCDMA V Ant0 DS13 Simultaneous			Tune-up Limit (dBm)
	825	840	953		1312	1413	1513		4132	4132	4233	
TX Channel	825	840	953		1312	1413	1513		4132	4132	4233	
Frequency (MHz)	825	840	953	15.10	14.92	14.98	14.88	16.40	21.11	21.21	21.14	22.00
3GPP Rel 99 AMR 12.2Kbps	13.77	13.83	13.81	15.10	14.86	14.92	14.79	16.40	21.03	21.12	21.08	22.00
3GPP Rel 99 RMC 12.2Kbps	13.86	13.91	13.88	15.10	14.92	14.98	14.88	16.40	21.11	21.21	21.14	22.00
3GPP Rel 6 HSDPA Subtest-1	13.03	13.11	13.04	14.10	13.83	13.91	13.93	15.40	20.04	20.07	20.23	21.00
3GPP Rel 6 HSDPA Subtest-2	13.01	13.12	13.15	14.10	13.72	13.89	13.86	15.40	19.97	20.09	20.22	21.00
3GPP Rel 6 HSDPA Subtest-3	12.61	12.65	12.45	13.60	13.37	13.44	13.52	14.90	19.53	19.77	19.90	20.50
3GPP Rel 6 HSDPA Subtest-4	12.40	12.56	12.58	13.60	13.26	13.22	13.32	14.90	19.54	19.79	19.88	20.50
3GPP Rel 8 DCHSDPA Subtest-1	12.86	12.96	13.03	14.10	13.62	13.67	13.94	15.40	20.02	20.13	20.05	21.00
3GPP Rel 8 DCHSDPA Subtest-2	13.19	12.96	12.85	14.10	13.79	13.86	14.07	15.40	20.00	20.08	20.28	21.00
3GPP Rel 8 DCHSDPA Subtest-3	12.55	12.42	12.52	13.60	13.41	13.32	13.35	14.90	19.59	19.61	19.95	20.50
3GPP Rel 8 DCHSDPA Subtest-4	12.70	12.53	12.62	13.60	13.32	13.15	13.47	14.90	19.66	19.63	19.73	20.50
3GPP Rel 6 HSUPA Subtest-1	13.04	13.07	13.15	14.10	13.76	13.75	13.82	15.40	20.15	20.06	20.31	21.00
3GPP Rel 6 HSUPA Subtest-2	11.16	11.07	11.06	12.10	11.80	11.94	11.85	13.40	18.06	18.11	18.38	19.00
3GPP Rel 6 HSUPA Subtest-3	12.18	11.93	11.93	13.10	12.70	12.75	12.99	14.40	18.93	19.05	19.22	20.00
3GPP Rel 6 HSUPA Subtest-4	11.18	10.95	11.02	12.10	11.85	11.90	12.01	13.40	18.13	17.94	18.19	19.00
3GPP Rel 6 HSUPA Subtest-6	13.22	13.22	13.32	14.10	13.88	13.93	13.78	15.40	20.01	20.15	20.19	21.00



Band 2 Ant0 DS13 Standalone										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
1800 1800 1900										
20	QPSK	1	0	17.63	17.77	17.41				
20	QPSK	1	49	17.36	17.40	17.68			19.2	0
20	QPSK	1	99	17.39	17.40	17.68				
20	QPSK	50	0	17.56	17.60	17.47				
20	QPSK	50	24	17.49	17.43	17.61				
20	QPSK	50	50	17.52	17.36	17.44				
20	QPSK	100	0	17.56	17.65	17.62				
20	16QAM	0	0	17.59	17.68	17.51				
20	16QAM	1	49	17.63	17.73	17.81			19.2	0
20	16QAM	1	99	17.56	17.52	17.62				
20	16QAM	50	0	17.45	17.66	17.51				
20	16QAM	50	24	17.52	17.40	17.52				
20	16QAM	50	50	17.55	17.48	17.58				
20	16QAM	100	0	17.59	17.44	17.29				
20	84QAM	1	0	17.37	17.56	17.68				
20	84QAM	1	49	17.39	17.39	17.59			19.2	0
20	84QAM	50	99	17.55	17.60	17.51				
20	84QAM	50	0	17.45	17.56	17.39				
20	84QAM	50	24	17.49	17.38	17.51				
20	84QAM	50	50	17.55	17.48	17.39				
20	84QAM	100	0	17.56	17.60	17.59				
20	256QAM	1	49	17.57	17.71	17.45			19.2	0
20	256QAM	1	99	17.54	17.51	17.50				
20	256QAM	50	24	17.51	17.39	17.51				
20	256QAM	50	50	17.43	17.37	17.39				
20	256QAM	100	0	17.26	17.52	17.54				
Channel										
1817.5 1880 1922.5										
15	QPSK	1	0	17.58	17.73	17.38				
15	QPSK	1	37	17.42	17.49	17.66			19.2	0
15	QPSK	1	74	17.31	17.44	17.49				
15	QPSK	36	0	17.60	17.68	17.42				
15	QPSK	36	29	17.50	17.41	17.51				
15	QPSK	36	39	17.41	17.40	17.37			19.2	0
15	16QAM	75	0	17.64	17.64	17.50				
15	16QAM	75	0	17.61	17.62	17.49			19.2	0
15	16QAM	75	29	17.55	17.60	17.51				
15	16QAM	75	0	17.60	17.48	17.65			19.2	0
15	84QAM	1	0	17.41	17.50	17.48				
15	84QAM	36	29	17.55	17.49	17.51			19.2	0
15	84QAM	36	0	17.54	17.37	17.51				
15	84QAM	36	0	17.48	17.59	17.51				
15	84QAM	36	39	17.51	17.55	17.45				
15	84QAM	75	0	17.56	17.56	17.67			19.2	0
15	256QAM	1	37	17.61	17.63	17.47				
15	256QAM	1	74	17.47	17.51	17.57				
15	256QAM	36	29	17.36	17.31	17.47				
15	256QAM	36	39	17.48	17.54	17.33			19.2	0
15	256QAM	75	0	17.33	17.37	17.35				
Channel										
1860 1890 1935										
10	QPSK	1	0	17.65	17.68	17.55				
10	QPSK	1	25	17.48	17.23	17.67			19.2	0
10	QPSK	1	49	17.36	17.36	17.47				
10	QPSK	25	0	17.48	17.33	17.49				
10	QPSK	25	12	17.48	17.33	17.49				
10	QPSK	25	25	17.43	17.45	17.37			19.2	0
10	16QAM	1	0	17.57	17.53	17.68				
10	16QAM	1	0	17.59	17.67	17.41			19.2	0
10	16QAM	1	24	17.49	17.66	17.65				
10	16QAM	25	0	17.42	17.63	17.47				
10	16QAM	25	12	17.55	17.42	17.51			19.2	0
10	16QAM	25	25	17.48	17.48	17.38				
10	16QAM	50	0	17.58	17.46	17.60				
10	84QAM	1	0	17.39	17.41	17.46				
10	84QAM	25	25	17.27	17.37	17.35			19.2	0
10	84QAM	25	0	17.51	17.36	17.45				
10	84QAM	25	0	17.42	17.54	17.30				
10	84QAM	50	0	17.48	17.48	17.38				
10	84QAM	50	25	17.52	17.63	17.45			19.2	0
10	84QAM	50	0	17.63	17.53	17.66				
10	256QAM	1	25	17.48	17.45	17.44				
10	256QAM	1	28	17.55	17.67	17.47				
10	256QAM	1	49	17.47	17.40	17.49				
10	256QAM	12	0	17.42	17.44	17.44				
10	256QAM	25	12	17.33	17.33	17.40				
10	256QAM	25	25	17.36	17.33	17.39			19.2	0
10	256QAM	50	0	17.40	17.37	17.29				
Channel										
1825 1890 1975										
5	QPSK	1	0	17.62	17.68	17.51				
5	QPSK	1	12	17.57	17.31	17.60				
5	QPSK	1	24	17.28	17.38	17.52				
5	QPSK	12	0	17.58	17.46	17.65				
5	QPSK	12	7	17.44	17.41	17.55				
5	QPSK	12	13	17.39	17.42	17.47				
5	QPSK	25	0	17.61	17.58	17.60				
5	16QAM	1	0	17.58	17.58	17.42			19.2	0
5	16QAM	1	12	17.61	17.66	17.62				
5	16QAM	1	24	17.62	17.68	17.61				
5	16QAM	12	0	17.33	17.59	17.47				
5	16QAM	12	7	17.49	17.40	17.43			19.2	0
5	16QAM	12	13	17.51	17.48	17.37				
5	16QAM	25	0	17.48	17.48	17.65				
5	84QAM	1	0	17.42	17.53	17.57				
5	84QAM	1	12	17.36	17.41	17.42			19.2	0
5	84QAM	1	24	17.52	17.38	17.41				
5	84QAM	12	0	17.42	17.51	17.52				
5	84QAM	12	7	17.14	17.45	17.48				
5	84QAM	12	13	17.55	17.54	17.44			19.2	0
5	84QAM	25	0	17.63	17.57	17.64				
5	256QAM	1	0	17.46	17.46	17.63				
5	256QAM	1	12	17.62	17.65	17.39			19.2	0
5	256QAM	1	24	17.49	17.50	17.51				
5	256QAM	12	0	17.37	17.46	17.53				
5	256QAM	12	7	17.38	17.27	17.41				
5	256QAM	12	13	17.43	17.36	17.41			19.2	0
5	256QAM	25	0	17.35	17.33	17.29				
Channel										
1861.5 1890 1918.5										
3	QPSK	1	0	17.63	17.67	17.47				
3	QPSK	1	8	17.58	17.26	17.66			19.2	0
3	QPSK	1	14	17.27	17.45	17.49				
3	QPSK	8	0	17.56	17.60	17.43				
3	QPSK	8	4	17.53	17.34	17.65				
3	QPSK	8	7	17.45	17.37	17.43			19.2	0
3	QPSK	15	0	17.51	17.59	17.62				
3	16QAM	1	0	17.63	17.61	17.40			19.2	0
3	16QAM	1	8	17.56	17.60	17.67				
3	16QAM	1	14	17.61	17.66	17.63				
3	16QAM	8	0	17.39	17.60	17.41				
3	16QAM	8	4	17.46	17.38	17.44			19.2	0
3	16QAM	8	7	17.45	17.48	17.47				
3	16QAM	15	0	17.50	17.47	17.60				
3	16QAM	15	0	17.30	17.44	17.61			19.2	0
3	84QAM	1	0	17.26	17.38	17.27				
3	84QAM	1	14	17.60	17.40	17.47				
3	84QAM	8	0	17.46	17.61	17.47				
3	84QAM	8	4	17.60	17.48	17.50			19.2	0
3	84QAM	8	7	17.58	17.62	17.45				
3	84QAM	15	0	17.62	17.59	17.39				
3	84QAM	15	0	17.53	17.55	17.60				
3	256QAM	1	8	17.59	17.61	17.37			19.2	0
3	256QAM	1	14	17.47	17.40	17.38				
3	256QAM	8	0	1						



Band 7 Ant0 DS13 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Tune-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	18.38	18.62	18.36		
20	QPSK	1	49	18.31	18.32	18.23	19.6	0
20	QPSK	1	99	18.39	18.49	18.27		
20	QPSK	50	0	18.29	18.22	18.37		
20	QPSK	50	24	18.34	18.26	18.28		
20	QPSK	50	50	18.28	18.33	18.50	19.6	0
20	QPSK	100	0	18.38	18.50	18.48		
20	16QAM	1	0	18.29	18.29	18.29		
20	16QAM	1	49	18.54	18.22	18.30	19.6	0
20	16QAM	1	99	18.25	18.20	18.51		
20	16QAM	50	0	18.32	18.20	18.23		
20	16QAM	50	24	18.20	18.20	18.24	19.6	0
20	16QAM	50	50	18.28	18.47	18.27		
20	16QAM	100	0	18.25	18.41	18.38		
20	64QAM	1	0	18.48	18.25	18.25		
20	64QAM	1	49	18.41	18.20	18.42	19.6	0
20	64QAM	1	99	18.35	18.27	18.40		
20	64QAM	50	0	18.44	18.27	18.49		
20	64QAM	50	24	18.34	18.21	18.37	19.6	0
20	64QAM	50	50	18.33	18.25	18.41		
20	64QAM	100	0	18.48	18.41	18.34		
20	256QAM	1	0	18.43	18.26	18.26		
20	256QAM	1	49	18.22	18.48	18.32	19.6	0
20	256QAM	1	99	18.18	18.41	18.39		
20	256QAM	50	0	18.32	18.23	18.31		
20	256QAM	50	24	18.30	18.15	18.18	19.6	0
20	256QAM	50	50	18.38	18.36	18.31		
20	256QAM	100	0	18.29	18.20	18.20		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.33	18.47	18.24		
5	QPSK	1	49	18.32	18.20	18.24	19.6	0
5	QPSK	1	74	18.32	18.30	18.41		
5	QPSK	36	0	18.22	18.46	18.20		
5	QPSK	36	24	18.21	18.29	18.19	19.6	0
5	QPSK	36	39	18.14	18.23	18.46		
5	QPSK	75	0	18.29	18.24	18.26		
5	16QAM	1	0	18.21	18.31	18.10		
5	16QAM	1	37	18.44	18.07	18.16	19.6	0
5	16QAM	1	74	18.33	18.23	18.37		
5	16QAM	36	0	18.17	18.23	18.08		
5	16QAM	36	20	18.06	18.44	18.14	19.6	0
5	16QAM	36	39	18.39	18.20	18.25		
5	16QAM	75	0	18.14	18.32	18.24		
5	64QAM	1	0	18.39	18.20	18.13		
5	64QAM	1	37	18.35	18.27	18.35	19.6	0
5	64QAM	36	0	18.38	18.30	18.35		
5	64QAM	36	20	18.19	18.28	18.28	19.6	0
5	64QAM	36	39	18.10	18.32	18.37		
5	64QAM	75	0	18.37	18.28	18.27		
5	256QAM	1	0	18.13	18.51	18.19	19.6	0
5	256QAM	1	74	18.05	18.36	18.23		
5	256QAM	36	0	18.25	18.26	18.25		
5	256QAM	36	20	18.25	18.06	18.13	19.6	0
5	256QAM	36	39	18.28	18.20	18.18		
5	256QAM	75	0	18.21	18.12	18.14		
Channel								
Frequency (MHz)								
5	QPSK	1	0	18.25	18.35	18.25		
5	QPSK	1	25	18.21	18.32	18.11	19.6	0
5	QPSK	1	49	18.25	18.36	18.49		
5	QPSK	12	0	18.34	18.26	18.26		
5	QPSK	12	7	18.24	18.15	18.16	19.6	0
5	QPSK	25	0	18.19	18.21	18.42		
5	QPSK	25	24	18.21	18.24	18.41		
5	QPSK	25	49	18.20	18.45	18.41	19.6	0
5	16QAM	1	0	18.18	18.24	18.14		
5	16QAM	1	25	18.48	18.15	18.26	19.6	0
5	16QAM	1	49	18.20	18.23	18.08		
5	16QAM	12	0	18.12	18.41	18.02		
5	16QAM	12	7	18.04	18.36	18.12	19.6	0
5	16QAM	12	24	18.21	18.20	18.45		
5	16QAM	12	49	18.24	18.18	18.10		
5	16QAM	25	0	18.21	18.21	18.17		
5	16QAM	25	12	18.09	18.44	18.13	19.6	0
5	16QAM	25	20	18.12	18.41	18.02		
5	16QAM	25	39	18.18	18.27	18.32		
5	16QAM	50	0	18.39	18.22	18.15		
5	64QAM	1	0	18.35	18.44	18.31	19.6	0
5	64QAM	1	49	18.24	18.24	18.26		
5	64QAM	25	0	18.38	18.32	18.44		
5	64QAM	25	12	18.22	18.26	18.26	19.6	0
5	64QAM	25	20	18.22	18.28	18.28		
5	64QAM	50	0	18.34	18.27	18.19		
5	256QAM	1	0	18.11	18.33	18.24	19.6	0
5	256QAM	1	25	18.12	18.33	18.22		
5	256QAM	12	0	18.23	18.03	18.09		
5	256QAM	12	7	18.29	18.25	18.21	19.6	0
5	256QAM	12	24	18.15	18.20	18.19		
5	256QAM	25	0	18.22	18.20	18.20		
5	256QAM	25	12	18.16	18.42	18.12	19.6	0
5	256QAM	25	20	18.15	18.04	18.12		

Band 12 Ant0 DS13 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Tune-up (dB)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	0	22.96	23.19	22.88		
10	QPSK	1	25	22.82	22.82	23.15	24	0
10	QPSK	1	49	23.12	23.13	23.11		
10	QPSK	25	0	23.04	23.15	23.08		
10	QPSK	25	12	23.14	23.09	23.12	24	0
10	QPSK	25	25	23.14	23.06	22.89		
10	QPSK	50	0	22.96	23.13	23.08		
10	16QAM	1	0	22.99	22.91	23.01		
10	16QAM	1	25	23.04	23.05	23.10	24	0
10	16QAM	1	49	23.08	23.08	23.10		
10	16QAM	25	0	22.92	22.95	22.69		
10	16QAM	25	12	22.85	22.98	22.88	24	0
10	16QAM	25	25	22.85	22.87	22.87		
10	16QAM	50	0	23.04	23.12	23.15		
10	16QAM	50	24	22.92	22.92	22.92	24	0
10	16QAM	50	49	23.08	23.06	23.13		
10	64QAM	1	0	22.88	22.87	23.01		
10	64QAM	1	25	23.04	23.12	23.15	24	0
10	64QAM	25	0	22.92	22.92	22.92		
10	64QAM	25	12	22.83	22.97	22.83	24	0
10	64QAM	25	25	22.84	22.92	22.75		
10	64QAM	50	0	22.81	22.89	22.60		
10	64QAM	50	0	18.44	18.47	18.41		
10	256QAM	1	0	19.46	19.54	19.45	20	4
10	256QAM	1	49	19.53	19.53	19.58		
10	256QAM	12	0	19.43	19.49	19.47	20	4
10	256QAM	12	7	19.47	19.54	19.58		
10	256QAM	12	25	19.52	19.43	19.40	20	4
10	256QAM	100	0	19.26	19.09	19.10		
Channel								
Frequency (MHz)								
5	QPSK	1	0	22.80	23.03	22.77		
5	QPSK	1	24	22.93	22.94	23.11	24	0
5	QPSK	12	0	22.84	22.99	22.80		
5	QPSK	12	7	22.90	22.99	22.80	24	0
5	QPSK	12	13	22.95	23.07	22.79		
5	QPSK	25	0	22.92	22.94	22.80		
5	16QAM	1	0	22.85	22.83	22.83		
5	16QAM	1	12	22.82	22.97	23.00	24	0
5	16QAM	1	24	22.86	22.98	22.83		
5	16QAM	12	0	22.84	22.85	22.88		
5	16QAM	12	7	22.84	22.80	22.82	24	0
5	16QAM	12	13	22.85	22.85	22.85		
5	16QAM	12	25	22.87	22.77	22.85		
5	64QAM	1	0	22.72	22.81	22.88		
5	64QAM	1	24	22.86	22.82	22.82	24	0
5	64QAM	12	0	22.80	22.85	22.85		
5	64QAM	12	7	22.80	22.85	22.85	24	0
5	64QAM	12	13	22.85	22.85	22.85		
5	64QAM	12	25	22.87	22.82	22.85		
5	64QAM	25	0	22.72	22.81	22.88		
5	64QAM	25	12	22.86	22.82	22.82	24	0
5	64QAM	25	13	22.85	22.85	22.85		
5	64QAM	25	25	22.87</				



Band 17 Ant0 DS13 Standalone										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)				700	710	711				
10	QPSK	1	0	23.03	23.12	23.09				
10	QPSK	1	25	23.05	23.02	23.06				
10	QPSK	1	49	22.98	22.95	22.95				
10	QPSK	25	0	23.00	23.00	23.03				
10	QPSK	25	12	23.04	23.07	23.04				
10	QPSK	25	25	22.99	23.08	23.06				
10	QPSK	50	0	22.83	22.92	22.91				
10	16QAM	50	0	22.99	22.92	22.96				
10	16QAM	1	25	22.94	23.02	22.97				
10	16QAM	1	49	23.01	22.88	22.99				
10	16QAM	1	49	22.98	22.95	22.96				
10	16QAM	25	12	22.47	22.38	22.41				
10	16QAM	25	25	22.38	22.40	22.42				
10	16QAM	50	0	22.44	22.78	22.60				
10	84QAM	1	0	22.88	22.89	22.97				
10	84QAM	1	25	22.96	22.94	22.91				
10	84QAM	1	49	22.88	22.95	22.95				
10	84QAM	25	0	22.53	22.51	22.55				
10	84QAM	25	12	22.98	22.97	22.99				
10	84QAM	25	25	22.96	22.97	22.91				
10	84QAM	50	0	22.51	22.51	22.53				
10	256QAM	1	0	19.72	19.77	19.70				
10	256QAM	1	25	19.85	19.84	19.85				
10	256QAM	1	49	19.70	19.59	19.67				
10	256QAM	25	0	19.85	19.78	19.83				
10	256QAM	25	12	19.83	19.72	19.71				
10	256QAM	25	25	19.63	19.81	19.67				
10	256QAM	50	0	19.44	19.78	19.58				
Channel										
Frequency (MHz)				706.5	710	713.5				
5	QPSK	1	0	22.96	23.00	23.04				
5	QPSK	1	12	22.94	23.00	22.92				
5	QPSK	1	24	22.96	22.81	22.73				
5	QPSK	12	0	23.00	22.98	22.97				
5	QPSK	12	7	23.04	23.03	23.06				
5	QPSK	12	13	22.92	23.07	23.01				
5	QPSK	25	0	22.62	22.95	22.85				
5	16QAM	1	0	22.89	22.94	22.95				
5	16QAM	1	12	22.93	23.01	22.77				
5	16QAM	1	24	22.97	22.94	22.91				
5	16QAM	12	0	22.91	22.21	22.33				
5	16QAM	12	7	22.30	22.25	22.41				
5	16QAM	12	13	22.86	22.78	22.87				
5	16QAM	25	0	22.38	22.28	22.17				
5	84QAM	1	0	22.84	22.75	22.78				
5	84QAM	1	12	22.90	22.96	22.95				
5	84QAM	1	24	22.72	22.87	23.01				
5	84QAM	12	0	22.50	22.45	22.52				
5	84QAM	12	7	22.55	22.41	22.37				
5	84QAM	12	13	22.51	22.41	22.39				
5	84QAM	25	0	22.34	22.51	22.44				
5	256QAM	1	0	19.66	19.78	19.78				
5	256QAM	1	12	19.68	19.84	19.71				
5	256QAM	1	24	19.86	19.66	19.64				
5	256QAM	12	0	19.86	19.87	19.73				
5	256QAM	12	7	19.83	19.71	19.66				
5	256QAM	12	13	19.81	19.84	19.80				
5	256QAM	25	0	19.58	19.83	19.60				

Band 25 Ant0_DS13 Standalone										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)				1860	1860	1905				
20	QPSK	1	0	17.79	17.80	17.60				
20	QPSK	1	49	17.78	17.80	17.60				
20	QPSK	1	99	17.50	17.58	17.48				
20	QPSK	50	0	17.77	17.80	17.60				
20	QPSK	50	24	17.61	17.52	17.63				
20	QPSK	50	50	17.60	17.58	17.58				
20	QPSK	100	0	17.73	17.75	17.74				
20	16QAM	100	0	17.75	17.80	17.69				
20	16QAM	1	49	17.72	17.82	17.80				
20	16QAM	1	99	17.73	17.89	17.76				
20	16QAM	50	0	17.58	17.78	17.69				
20	16QAM	50	24	17.69	17.56	17.61				
20	16QAM	50	50	17.66	17.84	17.75				
20	16QAM	100	0	17.71	17.88	17.81				
20	84QAM	1	0	17.63	17.64	17.67				
20	84QAM	1	49	17.40	17.36	17.48				
20	84QAM	1	99	17.75	17.80	17.62				
20	84QAM	50	0	17.65	17.72	17.52				
20	84QAM	50	24	17.62	17.38	17.63				
20	84QAM	50	50	17.72	17.75	17.62				
20	84QAM	100	0	17.75	17.68	17.78				
20	256QAM	1	0	17.67	17.67	17.61				
20	256QAM	1	49	17.75	17.75	17.58				
20	256QAM	1	99	17.64	17.61	17.68				
20	256QAM	50	0	17.62	17.55	17.61				
20	256QAM	50	24	17.52	17.49	17.49				
20	256QAM	50	50	17.60	17.55	17.50				
20	256QAM	100	0	17.63	17.54	17.60				
Channel										
Frequency (MHz)				1862.5	1860	1907.5				
15	QPSK	1	0	17.64	17.77	17.44				
15	QPSK	1	24	17.67	17.41	17.41				
15	QPSK	1	74	17.43	17.50	17.67				
15	QPSK	36	0	17.62	17.70	17.69				
15	QPSK	36	24	17.68	17.37	17.63				
15	QPSK	36	36	17.46	17.49	17.48				
15	QPSK	75	0	17.67	17.69	17.70				
15	16QAM	1	0	17.61	17.65	17.61				
15	16QAM	1	37	17.69	17.76	17.68				
15	16QAM	1	74	17.67	17.63	17.61				
15	16QAM	36	0	17.41	17.66	17.47				
15	16QAM	36	20	17.61	17.44	17.53				
15	16QAM	36	36	17.62	17.45	17.67				
15	16QAM	75	0	17.62	17.45	17.67				
15	84QAM	1	0	17.38	17.59	17.61				
15	84QAM	1	37	17.67	17.66	17.68				
15	84QAM	1	74	17.70	17.49	17.50				
15	84QAM	36	0	17.51	17.62	17.42				
15	84QAM	36	20	17.68	17.43	17.68				
15	84QAM	36	36	17.57	17.60	17.52				
15	84QAM	75	0	17.64	17.64	17.67				
15	256QAM	1	0	17.62	17.62	17.61				
15	256QAM	1	37	17.62	17.68	17.43				
15	256QAM	1	74	17.51	17.59	17.57				
15	256QAM	36	0	17.43	17.65	17.43				
15	256QAM	36	20	17.38	17.39	17.43				
15	256QAM	36	36	17.49	17.51	17.39				
15	256QAM	75	0	17.43	17.42	17.43				
Channel										
Frequency (MHz)				1865	1860	1910				
10	QPSK	1	0	17.63	17.71	17.43				
10	QPSK	1	25	17.53	17.37	17.69				
10	QPSK	1	49	17.38	17.51	17.61				
10	QPSK	25	0	17.67	17.71	17.65				
10	QPSK	25	12	17.54	17.35	17.69				
10	QPSK	25	25	17.41	17.47	17.48				
10	QPSK	50	0	17.63	17.62	17.66				
10	16QAM	1	0	17.55	17.68	17.52				
10	16QAM	1	25	17.62	17.75	17.74				
10	16QAM	1	49	17.61	17.63	17.61				
10	16QAM	25	0	17.49	17.73	17.42				
10	16QAM	25	12	17.67	17.45	17.59				
10	16QAM	25</								



Band 30 Ant0_DS13 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MFR (dB)	MFR (dB)
Channel									
2310									
10	QPSK	1	0	18.65	18.65	18.65	19.7	0	
10	QPSK	1	49	18.67	18.67	18.67			
10	QPSK	1	49	18.67	18.67	18.67			
10	QPSK	25	0	18.61	18.61	18.61	19.7	0	
10	QPSK	25	24	18.46	18.46	18.46			
10	QPSK	25	28	18.53	18.53	18.53			
10	QPSK	50	0	18.40	18.40	18.40	19.7	0	
10	16QAM	1	28	17.81	17.81	17.81			
10	16QAM	1	49	17.83	17.83	17.83			
10	16QAM	25	0	18.55	18.55	18.55	19.7	0	
10	16QAM	25	12	18.44	18.44	18.44			
10	16QAM	25	12	18.44	18.44	18.44			
10	16QAM	25	25	18.46	18.46	18.46			
10	16QAM	50	0	18.55	18.55	18.55	19.7	0	
10	84QAM	1	0	18.50	18.50	18.50			
10	84QAM	1	25	18.55	18.55	18.55	19.7	0	
10	84QAM	25	0	18.49	18.49	18.49			
10	84QAM	25	12	18.48	18.48	18.48			
10	84QAM	25	12	18.48	18.48	18.48			
10	84QAM	50	0	18.47	18.47	18.47	19.7	0	
10	256QAM	1	0	17.86	17.86	17.86			
10	256QAM	1	25	17.70	17.70	17.70	19	0.7	
10	256QAM	1	49	17.70	17.70	17.70			
10	256QAM	25	0	17.86	17.86	17.86			
10	256QAM	25	12	17.75	17.75	17.75	19	0.7	
10	256QAM	25	28	17.85	17.85	17.85			
10	256QAM	50	0	17.61	17.61	17.61			
Channel									
2705									
5	QPSK	1	0	18.48	18.48	18.48	19.7	0	
5	QPSK	1	12	18.54	18.54	18.54			
5	QPSK	1	24	18.42	18.42	18.42			
5	QPSK	12	0	18.20	18.20	18.20	19.7	0	
5	QPSK	12	7	18.05	18.05	18.05			
5	QPSK	12	13	18.40	18.40	18.40			
5	QPSK	25	0	18.28	18.28	18.28	19.7	0	
5	16QAM	1	0	17.76	17.76	17.76			
5	16QAM	1	12	17.95	17.95	17.95	19.7	0	
5	16QAM	1	24	17.96	17.96	17.96			
5	16QAM	12	0	18.30	18.30	18.30	19.7	0	
5	16QAM	12	7	18.31	18.31	18.31			
5	16QAM	12	13	18.33	18.33	18.33			
5	84QAM	1	0	18.43	18.43	18.43	19.7	0	
5	84QAM	1	12	18.56	18.56	18.56			
5	84QAM	1	24	18.54	18.54	18.54			
5	84QAM	12	0	18.28	18.28	18.28	19.7	0	
5	84QAM	12	7	18.31	18.31	18.31			
5	84QAM	12	13	18.48	18.48	18.48			
5	84QAM	25	0	18.27	18.27	18.27	19.7	0	
5	256QAM	1	0	18.41	18.41	18.41			
5	256QAM	1	12	17.71	17.71	17.71	19	0.7	
5	256QAM	1	24	17.82	17.82	17.82			
5	256QAM	12	0	17.49	17.49	17.49			
5	256QAM	12	13	17.72	17.72	17.72	19	0.7	
5	256QAM	12	13	17.76	17.76	17.76			
5	256QAM	25	0	17.80	17.80	17.80			

Band 66 Ant0_DS13 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up (min)	MFR (dB)	MFR (dB)
Channel									
1700									
20	QPSK	1	0	18.40	18.40	18.40	19.7	0	
20	QPSK	1	49	18.39	18.39	18.39			
20	QPSK	1	99	18.39	18.42	18.43			
20	QPSK	50	0	18.50	18.50	18.51	19.7	0	
20	QPSK	50	24	18.46	18.44	18.43			
20	QPSK	50	50	18.46	18.44	18.48			
20	QPSK	100	0	18.46	18.50	18.57	19.7	0	
20	16QAM	1	24	18.41	18.37	18.39			
20	16QAM	1	49	18.45	18.45	18.48	19.7	0	
20	16QAM	1	99	18.55	18.58	18.46			
20	16QAM	50	0	18.51	18.56	18.59	19.7	0	
20	16QAM	50	24	18.43	18.55	18.51			
20	16QAM	50	24	18.43	18.55	18.51			
20	16QAM	100	0	18.49	18.56	18.52	19.7	0	
20	16QAM	100	0	18.47	18.48	18.47			
20	84QAM	1	0	18.67	18.58	18.58			
20	84QAM	1	49	18.55	18.46	18.59	19.7	0	
20	84QAM	50	0	18.52	18.51	18.49	19.7	0	
20	84QAM	50	24	18.40	18.41	18.40			
20	84QAM	50	24	18.47	18.48	18.47			
20	84QAM	100	0	18.58	18.50	18.41	19.7	0	
20	256QAM	1	0	18.56	18.46	18.43			
20	256QAM	1	49	18.61	18.50	18.45	19.7	0	
20	256QAM	1	99	18.50	18.63	18.51			
20	256QAM	50	0	18.60	18.56	18.52	19.7	0	
20	256QAM	50	24	18.77	18.61	18.53			
20	256QAM	50	50	18.61	18.63	18.52			
20	256QAM	100	0	18.44	18.44	18.44	19.7	0	
Channel									
13247									
15	QPSK	1	0	18.53	18.55	18.73	19.7	0	
15	QPSK	1	37	17.75	17.45	17.72			
15	QPSK	1	74	18.78	18.63	18.70			
15	QPSK	36	0	18.67	18.67	18.52	19.7	0	
15	QPSK	36	29	18.41	18.45	18.52			
15	QPSK	36	39	18.45	18.45	18.48			
15	QPSK	75	0	18.62	18.76	18.69	19.7	0	
15	16QAM	1	0	18.45	18.45	18.68			
15	16QAM	1	37	18.05	18.53	18.46	19.7	0	
15	16QAM	1	74	18.56	18.56	18.61			
15	16QAM	36	0	18.60	18.54	18.45	19.7	0	
15	16QAM	36	29	18.50	18.57	18.74			
15	16QAM	36	39	18.56	18.56	18.57			
15	16QAM	75	0	18.55	18.61	18.48	19.7	0	
15	84QAM	1	0	18.71	18.68	18.58	19.7	0	
15	84QAM	1	37	18.56	18.56	18.60			
15	84QAM	1	74	18.66	18.73	18.75			
15	84QAM	36	0	18.71	18.59	18.60	19.7	0	
15	84QAM	36	29	18.56	18.56	18.60			
15	84QAM	36	39	18.47	18.52	18.51			
15	84QAM	75	0	18.56	18.67	18.46	19.7	0	
15	84QAM	75	0	18.56	18.67	18.46			
15	256QAM	1	0	18.79	18.58	18.51	19.7	0	
15	256QAM	1	37	18.79	18.58	18.51			
15	256QAM	1	74	18.62	18.63	18.47			
15	256QAM	36	0	18.81	18.80	18.56	19.7	0	
15	256QAM	36	29	18.79	18.56	18.52			
15	256QAM	75	0	18.78	18.56	18.55	19.7	0	
Channel									
13247									
15	QPSK	1	0	18.53	18.55	18.73	19.7	0	
15	QPSK	1	25	18.55	18.55	18.63			
15	QPSK	1	49	18.68	18.44	18.55			
15	QPSK	12	0	18.56	18.56	18.60	19.7	0	
15	QPSK	12	7	18.57	18.66	18.42			
15	QPSK	25	0	18.46	18.69	18.68	19.7	0	
15	QPSK	25	12	18.57	18.65	18.65			
15	QPSK	50	0	18.59	18.73	18.63	19.7	0	
15	16QAM	1	24	18.66	18.69	18.62			
15	16QAM	1	49	18.70	18.72	18.68	19.7	0	
15	16QAM	1	99	18.66	18.58	18.54			
15	16QAM	25	0	18.66	18.58	18.54	19.7	0	
15	16QAM	25	12	18.56	18.70	18.59			
15	16QAM	25	12	18.70	18.74	18.73			
15	16QAM	50	0	18.69	18.59	18.60	19.7	0	
15	84QAM	1	0	18.69	18.55	18.63			
15	84QAM	1	25	18.76	18.42	18.57	19.7	0	
15	84QAM	1	49	18.65	18.76	18.71			
15	84QAM	25	0	18.59	18.73	18.63	19.7	0	
15	84QAM	25	12	18.74	18.74	18.74			



Band 2 Ant0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hd./Ch.F.Freq.	Power Hd./F.Freq.	Turn-up Time (min)	MPR (dB)
Channel								
20	QPSK	1	0	14.00	14.20	14.12		
20	QPSK	1	49	14.00	14.20	14.12	15.7	0
20	QPSK	1	99	14.07	14.08	13.94		
20	QPSK	1	149	14.00	14.20	14.16		
20	QPSK	1	199	14.04	13.98	13.93		
20	QPSK	50	50	14.11	14.12	14.03		
20	QPSK	100	0	14.11	14.12	14.00		
20	QPSK	100	50	13.97	13.98	13.92		
20	16QAM	1	49	14.16	14.07	14.02		
20	16QAM	1	99	14.13	14.00	14.23		
20	16QAM	1	149	14.02	14.12	14.10		
20	16QAM	50	24	13.93	14.14	13.90	15.7	0
20	16QAM	50	74	13.98	14.02	13.97		
20	16QAM	50	124	14.10	14.18	14.16		
20	16QAM	1	0	13.96	13.95	14.05		
20	16QAM	1	49	14.02	13.82	13.77	15.7	0
20	16QAM	1	99	14.02	13.82	13.77		
20	16QAM	50	24	14.07	14.00	14.06		
20	16QAM	50	74	13.91	13.87	13.14	15.7	0
20	16QAM	50	124	13.89	14.00	14.20		
20	16QAM	1	0	13.74	14.11	13.86		
20	256QAM	1	49	13.90	14.11	13.75	15.7	0
20	256QAM	1	99	13.75	13.78	13.94		
20	256QAM	50	24	13.91	13.87	13.14	15.7	0
20	256QAM	50	74	13.93	14.10	13.98		
20	256QAM	50	124	14.01	14.16	13.92		
20	256QAM	100	0	13.83	13.99	14.06		
Channel								
20	QPSK	1	0	18.97	18.90	19.15		
20	QPSK	1	49	18.97	18.90	19.02	15.7	0
20	QPSK	1	99	13.82	13.87	13.87		
20	QPSK	1	149	13.79	13.86	13.79		
20	QPSK	1	199	13.80	13.72	13.66		
20	QPSK	36	0	13.88	13.80	13.84		
20	QPSK	36	36	13.84	13.79	13.89		
20	QPSK	36	72	13.76	13.83	13.78		
20	QPSK	75	0	13.85	13.87	13.88		
20	16QAM	1	0	13.69	13.70	13.77		
20	16QAM	1	37	13.83	13.73	13.69	15.7	0
20	16QAM	1	74	13.81	13.82	13.81		
20	16QAM	36	0	13.81	13.85	13.85		
20	16QAM	36	36	13.87	13.79	13.85		
20	16QAM	75	0	13.85	13.82	13.92		
20	16QAM	1	0	13.87	13.81	13.73	15.7	0
20	16QAM	1	37	13.82	13.86	13.73		
20	16QAM	36	0	13.85	13.82	13.92		
20	16QAM	36	36	13.84	13.82	13.88		
20	16QAM	75	0	13.85	13.82	13.92		
20	16QAM	1	0	13.87	13.81	13.73	15.7	0
20	16QAM	1	37	13.83	13.87	13.67		
20	16QAM	36	0	13.85	13.82	13.92		
20	16QAM	36	36	13.84	13.82	13.88		
20	16QAM	75	0	13.85	13.82	13.92		
20	256QAM	1	37	13.83	13.81	13.76	15.7	0
20	256QAM	1	74	13.85	13.77	13.67		
20	256QAM	36	0	13.85	13.82	13.92		
20	256QAM	36	36	13.84	13.82	13.88		
20	256QAM	75	0	13.85	13.82	13.92		
20	256QAM	1	37	13.83	13.81	13.76	15.7	0
20	256QAM	1	74	13.85	13.77	13.67		
20	256QAM	36	0	13.85	13.82	13.92		
20	256QAM	36	36	13.84	13.82	13.88		
20	256QAM	75	0	13.85	13.82	13.92		
20	256QAM	100	0	13.85	13.82	13.92		

Band 4 Ant0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hd./Ch.F.Freq.	Power Hd./F.Freq.	Turn-up Time (min)	MPR (dB)
Channel								
20	QPSK	1	0	15.00	15.11	15.07		
20	QPSK	1	49	14.84	14.96	14.84	16.2	0
20	QPSK	1	99	14.86	14.96	15.01		
20	QPSK	50	0	15.03	15.05	15.04		
20	QPSK	100	0	14.91	14.93	14.93		
20	QPSK	50	50	14.93	14.98	14.92	16.2	0
20	QPSK	100	0	14.79	14.96	14.84		
20	QPSK	100	50	14.73	14.73	14.84		
20	16QAM	1	49	14.84	14.77	14.74	16.2	0
20	16QAM	1	99	14.86	14.95	14.89		
20	16QAM	50	0	14.90	14.95	14.97		
20	16QAM	50	24	14.87	14.90	14.90		
20	16QAM	50	74	14.77	14.94	14.85		
20	16QAM	100	0	14.90	14.93	14.93		
20	16QAM	100	50	15.00	14.90	14.93		
20	16QAM	1	0	15.03	14.90	14.90		
20	16QAM	1	49	14.94	14.75	14.77	16.2	0
20	16QAM	1	99	14.80	14.95	14.84		
20	16QAM	50	0	14.96	14.98	14.99		
20	16QAM	50	24	14.97	14.90	14.99		
20	16QAM	50	74	14.86	14.93	14.93		
20	16QAM	100	0	15.03	14.90	14.90		
20	16QAM	100	50	14.97	14.90	14.99		
20	16QAM	1	0	14.95	14.96	14.86		
20	256QAM	1	49	15.05	14.88	14.84	16.2	0
20	256QAM	1	99	14.90	15.01	14.99		
20	256QAM	50	24	14.97	14.90	14.95		
20	256QAM	50	74	14.73	14.78	15.03		
20	256QAM	50	124	14.74	14.81	14.99		
20	256QAM	100	0	14.74	14.83	14.99		
20	256QAM	100	50	14.83	14.90	14.99		
Channel								
20	QPSK	1	0	17.175	17.12	17.17		
20	QPSK	1	49	17.14	17.08	17.14	16.2	0
20	QPSK	1	99	17.17	17.14	17.14		
20	QPSK	36	0	14.92	14.96	14.93		
20	QPSK	36	36	14.81	14.74	14.79		
20	QPSK	36	72	14.79	14.85	14.78		
20	QPSK	75	0	14.74	14.86	14.73	16.2	0
20	16QAM	1	0	14.82	14.84	14.82		
20	16QAM	1	37	14.77	14.89	14.70	16.2	0
20	16QAM	1	74	14.85	14.86	14.86		
20	16QAM	36	0	14.87	14.85	14.86		
20	16QAM	36	36	14.72	14.81	14.82	16.2	0
20	16QAM	36	72	14.80	14.78	14.80		
20	16QAM	75	0	14.95	14.81	14.81		
20	16QAM	1	0	14.96	14.75	14.77	16.2	0
20	16QAM	1	37	14.91	14.78	14.77		
20	16QAM	36	0	14.90	14.78	14.80		
20	16QAM	36	36	14.80	14.75	14.85		
20	16QAM	75	0	14.95	14.81	14.81		
20	16QAM	1	0	14.96	14.75	14.77	16.2	0
20	16QAM	1	37	14.91	14.78	14.77		
20	16QAM	36	0	14.90	14.78	14.80		
20	16QAM	36	36	14.80	14.75	14.85		
20	16QAM	75	0	14.95	14.81	14.81		
20	16QAM	1	0	14.96	14.75	14.77	16.2	0
20	16QAM	1	37	14.91	14.78	14.77		
20	16QAM	36	0	14.90	14.78	14.80		
20	16QAM	36	36	14.80	14.75	14.85		
20	16QAM	75	0	14.95	14.81	14.81		
20	256QAM	1	37	14.98	14.82	14.81	16.2	0
20	256QAM	1	74	14.81	14.89	14.86		
20	256QAM	36	0	14.92	14.85	14.85		
20	256QAM	36	36	14.84	14.85	14.82		
20	256QAM	75	0	14.94	14.85	14.82		
20	256QAM	100	0	14.94	14.85	14.82		
20	256QAM	100	50	14.79	14.79	14.84		
20	256QAM	100	100	14.82	14.74	14.87		

Band 5 Ant0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hd./Ch.F.Freq.	Power Hd./F.Freq.	Turn-up Time (min)	MPR (dB)
Channel								
10	QPSK	1	0	22.01	22.04	21.94		
10	QPSK	1	25	21.82	21.81	21.77	23.4	0
10	QPSK	1	49	22.00	21.94	22.00		
10	QPSK	25	0	21.87	22.02	21.80		
10	QPSK	25	12	21.79	21.78	21.81	23.4	0
10	QPSK	25	25	21.77	21.87	21.83		
10	QPSK	50	0					



Band 12 Ant0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.10	22.98				
10	QPSK	1	25	22.92	23.05	22.94				
10	QPSK	1	49	23.12	23.13	23.11		24	0	
10	QPSK	25	0	23.04	23.10	23.08				
10	16QAM	25	0	23.14	23.07	23.12				
10	QPSK	25	25	23.14	23.08	23.09				
10	QPSK	50	0	22.98	23.13	23.08				
10	16QAM	50	0	22.99	23.01	23.01				
10	16QAM	1	25	23.04	23.00	23.10		24	0	
10	16QAM	25	49	23.08	23.06	23.10				
10	16QAM	25	0	23.02	23.05	23.04				
10	16QAM	25	12	22.45	22.38	22.46				
10	16QAM	25	25	22.48	22.47	22.52				
10	16QAM	50	0	22.41	22.37	22.38				
10	16QAM	1	0	22.88	22.87	23.01				
10	16QAM	1	25	23.04	23.12	23.15		24	0	
10	16QAM	1	49	23.08	23.08	23.13				
10	16QAM	25	0	22.52	22.53	22.59				
10	16QAM	25	12	22.63	22.67	22.63				
10	16QAM	25	25	22.64	22.67	22.70				
10	16QAM	50	0	22.61	22.59	22.60		24	0	
10	16QAM	1	0	18.44	18.41	18.41				
10	256QAM	1	25	18.48	18.54	18.45		20	4	
10	256QAM	1	49	18.53	18.53	18.58				
10	256QAM	25	0	18.44	18.41	18.41				
10	256QAM	25	12	18.47	18.54	18.58				
10	256QAM	25	25	18.52	18.43	18.40				
10	256QAM	50	0	18.44	18.41	18.41				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.80	23.03	22.77				
5	QPSK	1	25	22.82	23.08	23.11		24	0	
5	QPSK	1	24	22.93	23.08	23.13				
5	QPSK	12	0	22.84	22.99	22.99				
5	QPSK	12	7	22.99	22.99	22.95				
5	QPSK	12	13	22.95	22.97	22.79				
5	QPSK	25	0	22.82	22.74	22.80				
5	16QAM	1	0	22.85	22.78	22.93				
5	16QAM	1	12	22.82	22.87	23.00		24	0	
5	16QAM	1	24	22.81	22.88	23.06				
5	16QAM	12	0	22.84	22.88	23.06				
5	16QAM	12	7	22.84	22.40	22.32				
5	16QAM	12	13	22.84	22.15	22.38				
5	16QAM	25	0	22.97	22.17	22.25				
5	16QAM	1	0	22.72	22.81	22.98		24	0	
5	16QAM	1	25	22.81	22.86	23.06				
5	16QAM	1	24	23.00	23.05	23.05				
5	16QAM	12	0	22.48	22.38	22.42				
5	16QAM	12	7	22.58	22.39	22.45				
5	16QAM	12	13	22.85	22.85	22.48				
5	16QAM	25	0	22.43	22.82	22.88		24	0	
5	16QAM	1	0	18.31	18.28	18.45				
5	256QAM	1	12	18.41	18.51	18.56		20	4	
5	256QAM	1	24	18.44	18.48	18.59				
5	256QAM	12	0	18.43	18.49	18.51				
5	256QAM	12	7	18.51	18.29	18.29				
5	256QAM	12	13	18.86	18.55	18.34				
5	256QAM	25	0	18.20	18.42	18.48		20	4	
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.71	22.88	22.79				
3	QPSK	1	8	22.82	22.89	23.04		24	0	
3	QPSK	1	14	22.92	22.91	22.80				
3	QPSK	8	0	22.86	22.89	23.07				
3	QPSK	8	7	22.86	22.87	22.82				
3	QPSK	8	7	22.85	22.80	22.84		24	0	
3	QPSK	15	0	22.71	22.82	22.87				
3	16QAM	1	0	22.74	22.82	22.89				
3	16QAM	1	8	22.84	22.80	22.87		24	0	
3	16QAM	1	15	22.83	22.88	23.08				
3	16QAM	8	0	22.16	22.24	22.25				
3	16QAM	8	4	22.28	22.08	22.22				
3	16QAM	8	7	22.87	22.87	22.86		24	0	
3	16QAM	15	0	22.26	22.22	22.10				
3	16QAM	1	0	22.80	22.78	22.87		24	0	
3	16QAM	1	8	22.78	22.88	23.00				
3	16QAM	1	14	22.77	22.88	22.83				
3	16QAM	8	0	22.34	22.21	22.37				
3	16QAM	8	4	22.38	22.40	22.48				
3	16QAM	8	7	22.41	22.50	22.55		24	0	
3	256QAM	1	0	22.45	22.40	22.34				
3	256QAM	1	8	18.43	18.60	18.58		20	4	
3	256QAM	1	14	18.53	18.52	18.44				
3	256QAM	8	0	18.66	18.54	18.55				
3	256QAM	8	4	18.44	18.43	18.86		20	4	
3	256QAM	8	7	18.81	18.29	18.29				
3	256QAM	15	0	18.20	18.61	18.38				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	23.02	23.09	23.11				
1.4	QPSK	1	3	23.06	23.00	23.15				
1.4	QPSK	1	5	22.90	22.85	23.07		24	0	
1.4	QPSK	3	0	23.00	23.01	23.17				
1.4	QPSK	3	1	23.07	23.04	23.16				
1.4	QPSK	3	3	22.97	23.00	23.12				
1.4	16QAM	6	0	22.86	23.08	23.15		24	0	
1.4	16QAM	1	0	22.94	23.14	23.18				
1.4	16QAM	1	3	22.88	23.05	23.17				
1.4	16QAM	1	6	22.83	23.01	23.13				
1.4	16QAM	3	0	22.76	22.81	22.91		24	0	
1.4	16QAM	3	1	22.77	22.78	22.89				
1.4	16QAM	3	2	22.73	22.73	22.81				
1.4	16QAM	6	0	22.39	22.48	22.58		24	0	
1.4	16QAM	1	0	22.92	22.84	23.12				
1.4	16QAM	1	3	23.01	22.97	23.10				
1.4	16QAM	1	5	22.83	22.91	23.03		24	0	
1.4	16QAM	3	0	22.85	22.83	23.05				
1.4	16QAM	3	2	22.87	22.90	23.04				
1.4	16QAM	3	3	22.86	22.88	23.01				
1.4	16QAM	6	0	22.90	22.96	22.70		24	0	
1.4	256QAM	1	0	18.37	18.58	18.58				
1.4	256QAM	1	3	18.48	18.61	18.63		20	4	
1.4	256QAM	1	5	18.57	18.53	18.50				
1.4	256QAM	3	0	18.35	18.62	18.65				
1.4	256QAM	3	1	18.65	18.57	18.49				
1.4	256QAM	3	2	18.51	18.56	18.56		20	4	
1.4	256QAM	6	0	18.37	18.54	18.50				

Band 13 Ant0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.05	22.98				
10	QPSK	1	25	22.92	23.05	22.94				
10	QPSK	1	49	23.12	23.13	23.11		24	0	
10	QPSK	25	0	22.86	22.96	22.96				
10	QPSK	25	12	22.87	22.91	22.93				
10	QPSK	25	25	22.83	22.85	22.83				
10	QPSK	50	0	22.82	22.93	22.93				
10	16QAM	50	0	22.83	22.89	22.89				
10	16QAM	1	25	22.84	22.84	22.84		23	1	
10	16QAM	1	49	22.11	21.79	21.80				
10	16QAM	25	0	21.79	21.80	21.80				
10	16QAM	25	12	21.34	21.34	21.34				
10	16QAM	25	25	21.81	21.81	21.81				
10	16QAM	50	0	21.84	21.84	21.84				
10	16QAM	1	0	22.40	22.40	22.40				



Band 25 Ant0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.00	14.00	14.00				
20	QPSK	1	49	13.96	13.96	13.96	15.7	0		
20	QPSK	1	99	13.96	13.96	13.97				
20	QPSK	50	0	13.97	14.03	13.99				
20	QPSK	50	24	13.92	13.88	13.97	15.7	0		
20	QPSK	50	50	13.76	13.97	13.79				
20	QPSK	100	0	13.90	13.94	13.85				
20	16QAM	1	0	13.83	13.86	13.81				
20	16QAM	1	49	13.82	13.97	14.01	15.7	0		
20	16QAM	1	99	13.96	13.84	13.80				
20	16QAM	50	0	13.81	14.07	13.99				
20	16QAM	50	24	13.92	13.83	14.01	15.7	0		
20	16QAM	50	50	13.89	13.99	13.86				
20	16QAM	100	0	13.89	13.89	13.87				
20	16QAM	1	0	13.71	14.05	13.97				
20	16QAM	1	49	13.70	13.75	13.70	15.7	0		
20	16QAM	50	0	13.76	13.89	13.77				
20	16QAM	50	24	14.07	13.81	13.75	15.7	0		
20	16QAM	50	50	13.86	13.96	13.84				
20	256QAM	1	0	13.86	13.96	14.01				
20	256QAM	1	49	13.85	13.78	13.75	15.7	0		
20	256QAM	1	99	13.78	13.77	13.84				
20	256QAM	50	0	13.82	13.92	13.81				
20	256QAM	50	24	13.82	13.77	13.82	15.7	0		
20	256QAM	50	50	13.99	13.93	13.82				
20	256QAM	100	0	13.99	13.99	13.87				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.96	14.01	14.00				
15	QPSK	1	37	13.83	13.84	13.84	15.7	0		
15	QPSK	1	74	13.91	13.78	13.78				
15	QPSK	36	0	13.91	14.00	13.72				
15	QPSK	36	20	13.85	13.81	13.91	15.7	0		
15	QPSK	36	39	13.85	13.82	13.83				
15	QPSK	75	0	13.84	13.87	13.78				
15	16QAM	1	0	13.79	13.78	13.75	15.7	0		
15	16QAM	1	37	13.75	13.92	13.93				
15	16QAM	1	74	13.86	13.99	14.01				
15	16QAM	36	0	13.76	14.01	13.92	15.7	0		
15	16QAM	36	20	13.88	13.78	13.97				
15	16QAM	36	39	13.80	13.98	13.96				
15	16QAM	75	0	13.85	13.82	13.84				
15	16QAM	1	0	13.80	13.81	13.82	15.7	0		
15	16QAM	1	37	13.81	13.88	13.88				
15	16QAM	1	74	13.82	13.88	13.84				
15	16QAM	36	0	13.81	13.85	13.88	15.7	0		
15	16QAM	36	20	13.82	13.88	13.84				
15	16QAM	36	39	13.85	13.95	13.85				
15	16QAM	75	0	13.88	13.78	13.83				
15	256QAM	1	0	13.88	13.98	13.88				
15	256QAM	1	37	13.81	13.85	13.82	15.7	0		
15	256QAM	1	74	13.84	13.84	13.83				
15	256QAM	36	0	13.74	13.89	13.72				
15	256QAM	36	20	13.88	13.83	13.80	15.7	0		
15	256QAM	36	39	13.85	13.83	13.82				
15	256QAM	75	0	13.88	13.83	13.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.87	14.08	14.02				
10	QPSK	1	25	13.80	13.88	13.95	15.7	0		
10	QPSK	1	49	13.90	13.79	13.81				
10	QPSK	12	0	13.86	13.86	13.87				
10	QPSK	25	12	13.76	13.82	13.80	15.7	0		
10	QPSK	25	25	13.81	13.81	13.91				
10	16QAM	1	0	13.80	13.83	13.82				
10	16QAM	1	0	13.76	13.72	13.75	15.7	0		
10	16QAM	1	24	13.73	13.90	13.93				
10	16QAM	1	49	13.86	13.78	13.81	15.7	0		
10	16QAM	25	0	13.72	14.03	13.91				
10	16QAM	25	12	13.87	13.78	13.93	15.7	0		
10	16QAM	25	25	13.82	13.81	13.92				
10	16QAM	50	0	13.81	13.82	13.82				
10	16QAM	1	0	13.81	13.82	13.90	15.7	0		
10	16QAM	1	24	13.84	13.83	13.82				
10	16QAM	1	49	13.82	13.76	13.79				
10	16QAM	25	0	13.72	13.81	13.71	15.7	0		
10	16QAM	25	12	13.84	13.86	13.88				
10	16QAM	25	25	13.80	13.81	13.81				
10	16QAM	50	0	13.88	13.73	13.86				
10	256QAM	1	0	13.84	13.86	13.86	15.7	0		
10	256QAM	1	24	13.85	13.85	13.89				
10	256QAM	1	49	13.85	13.85	13.89				
10	256QAM	1	99	13.84	13.84	13.82	15.7	0		
10	256QAM	25	0	13.88	13.73	13.86				
10	256QAM	25	12	13.76	13.71	13.77	15.7	0		
10	256QAM	25	25	13.92	13.87	13.78				
10	256QAM	50	0	13.88	13.83	13.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.87	14.01	14.02				
5	QPSK	1	12	13.84	13.85	13.90	15.7	0		
5	QPSK	1	24	13.88	13.78	13.81				
5	QPSK	12	0	13.86	13.86	13.76				
5	QPSK	12	7	13.77	13.80	13.79	15.7	0		
5	QPSK	12	13	13.72	13.89	13.72				
5	QPSK	25	0	13.85	13.85	13.80				
5	16QAM	1	0	13.76	13.74	13.75	15.7	0		
5	16QAM	1	12	13.77	13.90	13.93				
5	16QAM	1	24	13.80	13.83	13.82				
5	16QAM	12	0	13.75	14.00	13.91	15.7	0		
5	16QAM	12	7	13.88	13.75	13.94				
5	16QAM	12	13	13.82	13.83	13.93	15.7	0		
5	16QAM	25	0	13.85	13.81	13.80				
5	16QAM	1	0	13.84	13.86	13.90	15.7	0		
5	16QAM	1	12	13.86	13.86	13.82				
5	16QAM	1	24	13.87	13.78	13.81				
5	16QAM	12	0	13.82	13.83	13.89	15.7	0		
5	16QAM	12	7	13.83	13.84	13.82				
5	16QAM	12	13	13.81	13.96	13.89				
5	16QAM	25	0	13.88	13.73	13.86				
5	256QAM	1	0	13.87	13.73	13.82	15.7	0		
5	256QAM	1	12	13.79	13.72	13.71				
5	256QAM	1	24	13.70	13.71	13.77				
5	256QAM	12	0	13.82	13.86	13.80	15.7	0		
5	256QAM	12	7	13.84	13.85	13.84				
5	256QAM	12	13	13.92	13.89	13.74	15.7	0		
5	256QAM	25	0	13.88	13.82	13.83				
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.92	13.90	14.01				
3	QPSK	1	8	13.82	13.84	13.95	15.7	0		
3	QPSK	1	14	13.92	13.78	13.80				
3	QPSK	3	0	13.83	13.85	13.74				
3	QPSK	8	4	13.82	13.85	13.81	15.7	0		
3	QPSK	8	7	13.82	13.83	13.83				
3	QPSK	15	0	13.87	13.89	13.80				
3	16QAM	1	0	13.77	13.74	13.75	15.7	0		
3	16QAM	1	8	13.75	13.88	13.97				
3	16QAM	1	14	13.81	13.85	13.91	15.7	0		
3	16QAM	8	4	13.86	13.74	13.97				
3	16QAM	8	7	13.81	13.85	13.91				
3	16QAM	15	0	13.83	13.85	13.80	15.7	0		
3	16QAM	1	0	13.81	13.83	13.90				
3	16QAM	1	8	13.82	13.85	13.80	15.7	0		
3	16									



Band 66 Ant0_DSI3 Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	APR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.01	15.02	15.08			
20	QPSK	1	49	14.98	14.99	15.04	16.2	0	
20	QPSK	1	99	15.03	15.01	14.88			
20	QPSK	50	0	14.97	15.00	15.05			
20	QPSK	50	24	14.95	15.01	14.98			
20	QPSK	50	50	14.88	14.91	14.85	16.2	0	
20	QPSK	100	0	14.98	15.01	14.99			
20	16QAM	1	49	14.92	15.00	15.03	16.2	0	
20	16QAM	1	99	14.93	14.73	14.83			
20	16QAM	50	0	14.79	14.90	14.99			
20	16QAM	50	24	14.85	14.89	14.81	16.2	0	
20	16QAM	50	50	15.07	15.04	14.99			
20	16QAM	100	0	14.87	14.89	14.82			
20	64QAM	1	0	15.00	15.00	15.08			
20	64QAM	1	49	14.99	14.92	15.04	16.2	0	
20	64QAM	1	99	15.00	14.90	15.02			
20	64QAM	50	0	15.01	15.01	15.03			
20	64QAM	50	24	14.98	14.90	14.98	16.2	0	
20	64QAM	50	50	14.91	14.89	15.03			
20	64QAM	100	0	15.00	14.90	14.85			
20	256QAM	1	49	14.79	14.78	15.02	16.2	0	
20	256QAM	1	99	14.73	14.85	14.74			
20	256QAM	50	0	14.83	14.78	14.83			
20	256QAM	50	24	14.94	14.84	15.02	16.2	0	
20	256QAM	50	50	14.77	14.72	14.80			
20	256QAM	100	0	14.85	14.72	15.00			
Channel									
Frequency (MHz)									
15	QPSK	1	0	14.88	15.01	14.96			
15	QPSK	1	37	14.91	14.99	14.79	16.2	0	
15	QPSK	1	74	14.93	14.83	14.79			
15	QPSK	36	0	14.91	15.01	14.90			
15	QPSK	36	20	14.91	14.90	14.90			
15	QPSK	36	36	14.76	14.83	14.70	16.2	0	
15	QPSK	75	0	14.91	14.90	14.89			
15	16QAM	1	49	14.90	14.90	14.84	16.2	0	
15	16QAM	1	37	14.78	14.95	14.95			
15	16QAM	36	0	14.83	14.80	14.75			
15	16QAM	36	20	14.84	14.82	14.84	16.2	0	
15	16QAM	36	36	14.79	14.80	14.73			
15	16QAM	75	0	14.78	14.79	14.73			
15	64QAM	1	0	14.93	15.01	15.03			
15	64QAM	1	37	14.94	14.90	14.89	16.2	0	
15	64QAM	1	74	15.03	14.90	14.90			
15	64QAM	36	0	14.88	14.91	14.94	16.2	0	
15	64QAM	36	20	14.92	14.88	14.88			
15	64QAM	36	36	14.80	14.84	14.80			
15	64QAM	75	0	14.87	14.78	14.73			
15	256QAM	1	37	14.73	14.78	14.86	16.2	0	
15	256QAM	1	74	14.83	14.74	14.62			
15	256QAM	36	0	14.87	14.82	14.76			
15	256QAM	36	20	14.83	14.75	14.90	16.2	0	
15	256QAM	36	36	14.86	14.61	14.72			
15	256QAM	75	0	14.74	14.80	14.68			
Channel									
Frequency (MHz)									
10	QPSK	1	0	14.93	15.00	14.93			
10	QPSK	1	25	14.87	14.98	14.75	16.2	0	
10	QPSK	1	49	14.89	14.84	14.82			
10	QPSK	25	0	14.89	14.98	14.86			
10	QPSK	25	14	14.87	15.00	14.86	16.2	0	
10	QPSK	25	25	14.78	14.77	14.76			
10	16QAM	1	0	14.92	14.90	14.88			
10	16QAM	1	25	14.82	14.91	14.97	16.2	0	
10	16QAM	1	49	14.81	14.86	14.91			
10	16QAM	25	0	14.73	14.80	14.93			
10	16QAM	25	14	14.77	14.78	14.67	16.2	0	
10	16QAM	25	25	14.98	14.88	14.89			
10	16QAM	50	0	14.76	14.70	14.68			
10	64QAM	1	0	14.88	15.00	14.96			
10	64QAM	1	25	14.85	14.82	14.80	16.2	0	
10	64QAM	1	49	15.03	14.80	14.91			
10	64QAM	25	0	14.93	14.90	14.90			
10	64QAM	25	14	14.89	14.82	14.82	16.2	0	
10	64QAM	25	25	14.76	14.87	14.94			
10	64QAM	50	0	14.90	14.83	14.70			
10	256QAM	1	25	14.71	14.70	14.63	16.2	0	
10	256QAM	1	25	14.72	14.68	14.88			
10	256QAM	1	49	14.60	14.73	14.62			
10	256QAM	25	0	14.65	14.80	14.77	16.2	0	
10	256QAM	25	14	14.88	14.78	14.91			
10	256QAM	25	25	14.86	14.62	14.66			
10	256QAM	50	0	14.72	14.62	14.63			
Channel									
Frequency (MHz)									
5	QPSK	1	0	14.93	15.00	14.93			
5	QPSK	1	12	14.90	15.00	14.83	16.2	0	
5	QPSK	1	24	14.93	14.84	14.78			
5	QPSK	12	0	14.84	14.88	14.84			
5	QPSK	12	7	14.85	14.90	14.82	16.2	0	
5	QPSK	12	13	14.76	14.80	14.72			
5	QPSK	25	0	14.88	14.80	14.67			
5	16QAM	1	0	14.95	14.97	14.84	16.2	0	
5	16QAM	1	12	14.85	14.88	14.90			
5	16QAM	1	24	14.85	14.82	14.70			
5	16QAM	12	0	14.69	14.88	14.90	16.2	0	
5	16QAM	12	7	14.72	14.63	14.75			
5	16QAM	12	13	14.90	14.86	14.89			
5	64QAM	1	0	14.90	14.90	14.99	16.2	0	
5	64QAM	1	12	14.87	14.88	14.95			
5	64QAM	1	24	14.97	14.82	14.89			
5	64QAM	12	0	14.92	14.84	14.91	16.2	0	
5	64QAM	12	7	14.91	14.85	14.85			
5	64QAM	12	13	14.78	14.92	14.92			
5	64QAM	25	0	14.91	14.79	14.74			
5	256QAM	1	12	14.70	14.72	14.82	16.2	0	
5	256QAM	1	12	14.70	14.71	14.63			
5	256QAM	1	24	14.60	14.77	14.61			
5	256QAM	12	0	14.92	14.89	14.74	16.2	0	
5	256QAM	12	7	14.89	14.75	14.94			
5	256QAM	12	13	14.68	14.63	14.71			
5	256QAM	25	0	14.71	14.61	14.65			
Channel									
Frequency (MHz)									
3	QPSK	1	0	14.97	15.00	14.93			
3	QPSK	1	8	14.91	14.90	14.75	16.2	0	
3	QPSK	1	14	14.93	14.82	14.77			
3	QPSK	8	0	14.85	14.89	14.88			
3	QPSK	8	4	14.82	15.00	14.85	16.2	0	
3	QPSK	8	7	14.76	14.84	14.79			
3	QPSK	15	0	14.90	14.88	14.91			
3	16QAM	1	0	14.95	14.98	14.91	16.2	0	
3	16QAM	1	8	14.79	14.95	14.98			
3	16QAM	1	14	14.80	14.84	14.72			
3	16QAM	8	0	14.70	14.80	14.89	16.2	0	
3	16QAM	8	4	14.76	14.77	14.67			
3	64QAM	1	0	14.91	15.00	14.90			
3	64QAM	1	8	14.80	14.80	14.91	16.2	0	
3	64QAM	1	14	15.01	14.88	14.88			
3	64QAM	8	0	14.86	14.91	14.90			
3	64QAM	8	4	14.91	14.83	14.88	16.2	0	
3	64QAM	8	7	14.78	14.88	14.95			
3	64QAM	15	0	14.88	14.80	14.80			
3	256QAM	1	0	14.72	14.73	14.87	16.2	0	
3	256QAM	1	8	14.70	14.64	14.94			
3	256QAM	1	14	14.67	14.71	14.69			
3	256QAM	8	0	14.96	14.87	14.69	16.2	0	
3	256QAM	8	4	14.87	14.77	14.88			
3	256QAM	8	7	14.68	14.67	14.70			
3	256QAM	15	0	14.79	14.60	14.95	16.2	0	
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	14.95	15.00	14.93			
1.4									



Band 38 Ant0 DS13 Standalone										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power Min Ch / Freq	Power Max Ch / Freq	Turn-up time (min)	MRR (dB)
Channel										
Frequency (MHz)				37450	38050	38150				
20	QPSK	1	0	20.15	20.52	20.81				
20	QPSK	1	48	20.14	20.49	20.44			21.1	0
20	QPSK	1	96	20.13	20.51	20.56				
20	QPSK	50	0	20.13	20.50	20.42				
20	QPSK	50	24	20.16	20.46	20.44			21.1	0
20	QPSK	50	48	20.17	20.49	20.45				
20	QPSK	100	0	20.12	20.51	20.34				
20	HQAM	1	0	20.16	20.42	20.87				
20	HQAM	1	48	20.17	20.47	20.35			21.1	0
20	HQAM	1	96	20.12	20.52	20.34				
20	HQAM	50	0	20.15	20.42	20.35				
20	HQAM	50	24	20.16	20.37	20.45			21.1	0
20	HQAM	50	48	20.16	20.42	20.47				
20	HQAM	100	0	20.15	20.49	20.35				
20	HQAM	100	24	20.19	20.31	20.47				
20	HQAM	100	48	20.16	20.47	20.31			21.1	0
20	HQAM	100	72	20.16	20.48	20.63				
20	HQAM	100	96	20.11	20.33	20.48				
20	HQAM	100	120	20.15	20.34	20.43			21.1	0
20	HQAM	100	144	20.18	20.55	20.44				
20	HQAM	100	168	20.11	20.49	20.48				
20	HQAM	100	192	20.13	20.27	20.38				
20	HQAM	100	216	20.16	20.30	20.36			21	0.1
20	HQAM	100	240	20.19	20.33	20.34				
20	HQAM	100	264	20.19	20.33	20.34			21	0.1
20	HQAM	100	288	20.19	20.33	20.34				
20	HQAM	100	312	20.19	20.33	20.34				
20	HQAM	100	336	20.19	20.33	20.34				
20	HQAM	100	360	20.19	20.33	20.34				
Channel										
Frequency (MHz)				37450	38050	38150				
15	QPSK	1	0	20.15	20.52	20.81				
15	QPSK	1	37	20.14	20.38	20.35			21.1	0
15	QPSK	1	74	20.13	20.48	20.35				
15	QPSK	36	0	20.13	20.60	20.43				
15	QPSK	36	20	20.17	20.43	20.31			21.1	0
15	QPSK	36	40	20.15	20.46	20.24				
15	QPSK	75	0	20.15	20.46	20.24				
15	HQAM	1	0	20.13	20.30	20.56				
15	HQAM	1	74	20.12	20.48	20.23			21.1	0
15	HQAM	36	0	20.14	20.39	20.21				
15	HQAM	36	20	20.16	20.58	20.32			21.1	0
15	HQAM	75	0	20.13	20.43	20.24				
15	HQAM	75	20	20.17	20.39	20.22			21.1	0
15	HQAM	117	0	20.13	20.34	20.36				
15	HQAM	117	35	20.13	20.33	20.29				
15	HQAM	36	20	20.16	20.25	20.31			21.1	0
15	HQAM	75	0	20.13	20.39	20.26				
15	HQAM	75	20	20.17	20.39	20.27				
15	HQAM	75	40	20.11	20.30	20.37				
15	HQAM	75	0	19.91	20.39	20.55			21	0.1
15	HQAM	75	20	20.13	20.33	20.36				
15	HQAM	75	40	20.19	20.11	20.22				
15	HQAM	75	0	19.97	20.34	20.16			21	0.1
15	HQAM	75	20	20.19	20.33	20.36				
15	HQAM	75	40	20.16	20.25	20.19				
15	HQAM	75	0	19.91	20.33	20.24				
Channel										
Frequency (MHz)				37450	38050	38150				
10	QPSK	1	0	20.15	20.52	20.81				
10	QPSK	1	25	20.14	20.42	20.37			21.1	0
10	QPSK	1	49	20.16	20.59	20.41				
10	QPSK	25	0	20.13	20.50	20.37				
10	QPSK	25	12	20.12	20.35	20.37			21.1	0
10	QPSK	25	25	20.16	20.22	20.53				
10	QPSK	50	0	20.15	20.39	20.35				
10	HQAM	1	0	20.16	20.32	20.58				
10	HQAM	1	25	20.13	20.24	20.30			21.1	0
10	HQAM	1	49	20.14	20.48	20.22				
10	HQAM	25	0	20.14	20.37	20.26				
10	HQAM	25	12	20.15	20.25	20.35			21.1	0
10	HQAM	50	0	20.16	20.35	20.26				
10	HQAM	50	12	20.18	20.35	20.26				
10	HQAM	50	25	20.14	20.35	20.24			21.1	0
10	HQAM	100	0	20.15	20.38	20.18				
10	HQAM	100	25	20.14	20.38	20.18				
10	HQAM	100	50	20.16	20.32	20.25			21.1	0
10	HQAM	100	75	20.16	20.32	20.25				
10	HQAM	100	100	20.16	20.32	20.25				
10	HQAM	100	125	20.16	20.32	20.25				
10	HQAM	100	150	20.16	20.32	20.25				
10	HQAM	100	175	20.16	20.32	20.25				
10	HQAM	100	200	20.16	20.32	20.25				
10	HQAM	100	225	20.16	20.32	20.25				
10	HQAM	100	250	20.16	20.32	20.25				
10	HQAM	100	275	20.16	20.32	20.25				
10	HQAM	100	300	20.16	20.32	20.25				
10	HQAM	100	325	20.16	20.32	20.25				
10	HQAM	100	350	20.16	20.32	20.25				
10	HQAM	100	375	20.16	20.32	20.25				
10	HQAM	100	400	20.16	20.32	20.25				
10	HQAM	100	425	20.16	20.32	20.25				
10	HQAM	100	450	20.16	20.32	20.25				
10	HQAM	100	475	20.16	20.32	20.25				
10	HQAM	100	500	20.16	20.32	20.25				
10	HQAM	100	525	20.16	20.32	20.25				
10	HQAM	100	550	20.16	20.32	20.25				
10	HQAM	100	575	20.16	20.32	20.25				
10	HQAM	100	600	20.16	20.32	20.25				
10	HQAM	100	625	20.16	20.32	20.25				
10	HQAM	100	650	20.16	20.32	20.25				
10	HQAM	100	675	20.16	20.32	20.25				
10	HQAM	100	700	20.16	20.32	20.25				
10	HQAM	100	725	20.16	20.32	20.25				
10	HQAM	100	750	20.16	20.32	20.25				
10	HQAM	100	775	20.16	20.32	20.25				
10	HQAM	100	800	20.16	20.32	20.25				
10	HQAM	100	825	20.16	20.32	20.25				
10	HQAM	100	850	20.16	20.32	20.25				
10	HQAM	100	875	20.16	20.32	20.25				
10	HQAM	100	900	20.16	20.32	20.25				
10	HQAM	100	925	20.16	20.32	20.25				
10	HQAM	100	950	20.16	20.32	20.25				
10	HQAM	100	975	20.16	20.32	20.25				
10	HQAM	100	1000	20.16	20.32	20.25				

Band 41 Ant0 DS13 Standalone										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power Min Ch / Freq	Power Max Ch / Freq	Turn-up time (min)	MRR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	20.16	20.43	20.83				
20	QPSK	1	49	20.17	20.40	20.72	20.84	20.89		21.1
20	QPSK	1	98	20.16	20.46	20.79	20.72	20.73		
20	QPSK	50	0	20.16	20.41	20.80	20.85	20.85		
20	QPSK	50	24	20.13	20.68	20.61	20.77	20.87		21.1
20	QPSK	50	49	20.12	20.75	20.68	20.79	20.78		
20	QPSK	100	0	20.16	20.57	20.77	20.75	20.87		
20	HQAM	1	0	20.19	20.67	20.79	20.68	20.98		
20	HQAM	1	49	20.14	20.69	20.77	20.77	20.73		21.1
20	HQAM	1	98	20.16	20.68	20.85	20.79	20.85		
20	HQAM	50	0	20.16	20.79	20.68	20.75	20.76		



Reuse Full Power Ant1 DS13 Standalone

GSM/GPRS	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	33.50	23.03	22.92	23.16	24.50
GSM 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GPRS 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GPRS 2 Tx slots	29.17	29.02	28.96	30.50	23.17	23.02	22.96	24.50
GPRS 3 Tx slots	27.62	27.43	27.34	29.00	23.36	23.17	23.08	24.74
GPRS 4 Tx slots	25.51	25.65	25.60	27.50	22.51	22.65	22.60	24.50
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50

Reuse Full Power Ant1 DS13 Standalone

Band	WCDMA V			Tune-up Limit (dBm)	
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.41	23.55	23.56	25.00
3GPP Rel 99	RMC 12.2Kbps	23.46	23.65	23.62	25.00
3GPP Rel 6	HSDPA Subtest-1	22.82	22.88	22.99	24.00
3GPP Rel 6	HSDPA Subtest-2	22.75	22.88	22.98	24.00
3GPP Rel 6	HSDPA Subtest-3	22.26	22.39	22.45	23.50
3GPP Rel 6	HSDPA Subtest-4	22.27	22.38	22.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.80	22.86	22.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.64	22.78	22.76	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	22.37	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.14	22.21	22.33	23.50
3GPP Rel 6	HSUPA Subtest-1	22.76	22.83	22.93	24.00
3GPP Rel 6	HSUPA Subtest-2	20.78	20.84	20.93	22.00
3GPP Rel 6	HSUPA Subtest-3	21.73	21.79	21.89	23.00
3GPP Rel 6	HSUPA Subtest-4	20.73	20.84	20.88	22.00
3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	22.90	24.00



Reuse Full Power Antt DSIS Simultaneous

GSM450	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	33.50	824.2	836.4	848.8	24.50
Frequency (MHz)	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GSM 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50
GPRS 1 Tx slots	29.17	29.02	28.96	30.50	23.17	23.02	22.96	24.50
GPRS 3 Tx slots	27.62	27.43	27.34	29.00	23.36	23.17	23.08	24.74
GPRS 4 Tx slots	25.51	25.65	25.60	27.50	22.51	22.65	22.60	24.50
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50

Antt DSIS Simultaneous

Burst	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	826.4	836.4	846.6	
Frequency (MHz)	21.79	21.85	21.76	23.40
3GPP Rel 99 AMR 12.2Kbps	21.84	21.93	21.83	23.40
3GPP Rel 99 RMC 12.2Kbps	20.75	20.82	20.76	22.40
3GPP Rel 6 HSDPA Subtest-1	20.72	20.76	20.89	22.40
3GPP Rel 6 HSDPA Subtest-2	20.37	20.47	20.33	21.90
3GPP Rel 6 HSDPA Subtest-3	20.22	20.30	20.57	21.90
3GPP Rel 6 HSDPA Subtest-4	20.74	20.68	20.82	22.40
3GPP Rel 8 DC-HSDPA Subtest-1	20.59	20.85	20.76	22.40
3GPP Rel 8 DC-HSDPA Subtest-2	20.09	20.31	20.14	21.90
3GPP Rel 8 DC-HSDPA Subtest-3	20.10	20.32	20.30	21.90
3GPP Rel 8 DC-HSDPA Subtest-4	20.86	20.73	21.05	22.40
3GPP Rel 6 HSUPA Subtest-1	18.79	18.83	19.03	20.40
3GPP Rel 6 HSUPA Subtest-2	19.76	19.91	19.87	21.40
3GPP Rel 6 HSUPA Subtest-3	18.69	18.73	18.86	20.40
3GPP Rel 6 HSUPA Subtest-4	20.59	20.82	20.84	22.40
3GPP Rel 6 HSUPA Subtest-5				



Band 2 Ant1 DS13 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power H / Freq	Power L / Freq	Turn-up Time (min)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.50	20.60	20.54		
20	QPSK	1	49	20.51	20.61	20.55	22	0
20	QPSK	1	99	20.53	20.63	20.58		
20	QPSK	1	149	20.55	20.65	20.60		
20	QPSK	50	24	20.56	20.66	20.61		
20	QPSK	50	74	20.58	20.68	20.63		
20	QPSK	100	0	20.60	20.70	20.65		
20	QPSK	100	49	20.63	20.73	20.68		
20	QPSK	1	99	20.67	20.77	20.72	22	0
20	QPSK	1	149	20.70	20.80	20.75		
20	QPSK	50	24	20.72	20.82	20.77		
20	QPSK	50	74	20.75	20.85	20.80		
20	QPSK	100	0	20.78	20.88	20.83		
20	QPSK	100	49	20.81	20.91	20.86		
20	QPSK	1	99	20.84	20.94	20.89	22	0
20	QPSK	1	149	20.87	20.97	20.92		
20	QPSK	50	24	20.90	21.00	20.95		
20	QPSK	50	74	20.93	21.03	20.98		
20	QPSK	100	0	20.96	21.06	21.01		
20	QPSK	100	49	20.99	21.09	21.04		
20	QPSK	1	99	21.02	21.12	21.07	20	2
20	QPSK	1	149	21.05	21.15	21.10		
20	QPSK	50	24	21.08	21.18	21.13		
20	QPSK	50	74	21.11	21.21	21.16		
20	QPSK	100	0	21.14	21.24	21.19		
20	QPSK	100	49	21.17	21.27	21.22		
20	QPSK	1	99	21.20	21.30	21.25	22	0
20	QPSK	1	149	21.23	21.33	21.28		
20	QPSK	50	24	21.26	21.36	21.31		
20	QPSK	50	74	21.29	21.39	21.34		
20	QPSK	100	0	21.32	21.42	21.37		
20	QPSK	100	49	21.35	21.45	21.40		
20	QPSK	1	99	21.38	21.48	21.43	20	2
20	QPSK	1	149	21.41	21.51	21.46		
20	QPSK	50	24	21.44	21.54	21.49		
20	QPSK	50	74	21.47	21.57	21.52		
20	QPSK	100	0	21.50	21.60	21.55		
20	QPSK	100	49	21.53	21.63	21.58		
20	QPSK	1	99	21.56	21.66	21.61	22	0
20	QPSK	1	149	21.59	21.69	21.64		
20	QPSK	50	24	21.62	21.72	21.67		
20	QPSK	50	74	21.65	21.75	21.70		
20	QPSK	100	0	21.68	21.78	21.73		
20	QPSK	100	49	21.71	21.81	21.76		
20	QPSK	1	99	21.74	21.84	21.79	20	2
20	QPSK	1	149	21.77	21.87	21.82		
20	QPSK	50	24	21.80	21.90	21.85		
20	QPSK	50	74	21.83	21.93	21.88		
20	QPSK	100	0	21.86	21.96	21.91		
20	QPSK	100	49	21.89	21.99	21.94		
20	QPSK	1	99	21.92	22.02	21.97	20	2
20	QPSK	1	149	21.95	22.05	22.00		
20	QPSK	50	24	21.98	22.08	22.03		
20	QPSK	50	74	22.01	22.11	22.06		
20	QPSK	100	0	22.04	22.14	22.09		
20	QPSK	100	49	22.07	22.17	22.12		
20	QPSK	1	99	22.10	22.20	22.15	22	0
20	QPSK	1	149	22.13	22.23	22.18		
20	QPSK	50	24	22.16	22.26	22.21		
20	QPSK	50	74	22.19	22.29	22.24		
20	QPSK	100	0	22.22	22.32	22.27		
20	QPSK	100	49	22.25	22.35	22.30		
20	QPSK	1	99	22.28	22.38	22.33	20	2
20	QPSK	1	149	22.31	22.41	22.36		
20	QPSK	50	24	22.34	22.44	22.39		
20	QPSK	50	74	22.37	22.47	22.42		
20	QPSK	100	0	22.40	22.50	22.45		
20	QPSK	100	49	22.43	22.53	22.48		
20	QPSK	1	99	22.46	22.56	22.51	22	0
20	QPSK	1	149	22.49	22.59	22.54		
20	QPSK	50	24	22.52	22.62	22.57		
20	QPSK	50	74	22.55	22.65	22.60		
20	QPSK	100	0	22.58	22.68	22.63		
20	QPSK	100	49	22.61	22.71	22.66		
20	QPSK	1	99	22.64	22.74	22.69	20	2
20	QPSK	1	149	22.67	22.77	22.72		
20	QPSK	50	24	22.70	22.80	22.75		
20	QPSK	50	74	22.73	22.83	22.78		
20	QPSK	100	0	22.76	22.86	22.81		
20	QPSK	100	49	22.79	22.89	22.84		
20	QPSK	1	99	22.82	22.92	22.87	22	0
20	QPSK	1	149	22.85	22.95	22.90		
20	QPSK	50	24	22.88	22.98	22.93		
20	QPSK	50	74	22.91	23.01	22.96		
20	QPSK	100	0	22.94	23.04	22.99		
20	QPSK	100	49	22.97	23.07	23.02		
20	QPSK	1	99	23.00	23.10	23.05	20	2
20	QPSK	1	149	23.03	23.13	23.08		
20	QPSK	50	24	23.06	23.16	23.11		
20	QPSK	50	74	23.09	23.19	23.14		
20	QPSK	100	0	23.12	23.22	23.17		
20	QPSK	100	49	23.15	23.25	23.20		
20	QPSK	1	99	23.18	23.28	23.23	22	0
20	QPSK	1	149	23.21	23.31	23.26		
20	QPSK	50	24	23.24	23.34	23.29		
20	QPSK	50	74	23.27	23.37	23.32		
20	QPSK	100	0	23.30	23.40	23.35		
20	QPSK	100	49	23.33	23.43	23.38		
20	QPSK	1	99	23.36	23.46	23.41	20	2
20	QPSK	1	149	23.39	23.49	23.44		
20	QPSK	50	24	23.42	23.52	23.47		
20	QPSK	50	74	23.45	23.55	23.50		
20	QPSK	100	0	23.48	23.58	23.53		
20	QPSK	100	49	23.51	23.61	23.56		
20	QPSK	1	99	23.54	23.64	23.59	22	0
20	QPSK	1	149	23.57	23.67	23.62		
20	QPSK	50	24	23.60	23.70	23.65		
20	QPSK	50	74	23.63	23.73	23.68		
20	QPSK	100	0	23.66	23.76	23.71		
20	QPSK	100	49	23.69	23.79	23.74		
20	QPSK	1	99	23.72	23.82	23.77	20	2
20	QPSK	1	149	23.75	23.85	23.80		
20	QPSK	50	24	23.78	23.88	23.83		
20	QPSK	50	74	23.81	23.91	23.86		
20	QPSK	100	0	23.84	23.94	23.89		
20	QPSK	100	49	23.87	23.97	23.92		
20	QPSK	1	99	23.90	24.00	23.95	22	0
20	QPSK	1	149	23.93	24.03	23.98		
20	QPSK	50	24	23.96	24.06	24.01		
20	QPSK	50	74	23.99	24.09	24.04		
20	QPSK	100	0	24.02	24.12	24.07		
20	QPSK	100	49	24.05	24.15	24.10		
20	QPSK	1	99	24.08	24.18	24.13	20	2
20	QPSK	1	149	24.11	24.21	24.16		
20	QPSK	50	24	24.14	24.24	24.19		
20	QPSK	50	74	24.17	24.27	24.22		
20	QPSK	100	0	24.20	24.30	24.25		
20	QPSK	100	49	24.23	24.33	24.28		
20	QPSK	1	99	24.26	24.36	24.31	22	0
20	QPSK	1	149	24.29	24.39	24.34		
20	QPSK	50	24	24.32	24.42	24.37		
20	QPSK	50	74	24.35	24.45	24.40		
20	QPSK	100	0	24.38	24.48	24.43		
20	QPSK	100	49	24.41	24.51	24.46		
20	QPSK	1	99	24.44	24.54	24.49	20	2
20	QPSK	1	149	24.47	24.57	24.52		
20	QPSK	50	24	24.50	24.60	24.55		
20	QPSK	50	74	24.53	24.63	24.58		
20	QPSK	100	0	24.56	24.66	24.61		
20	QPSK	100	49	24.59	24.69	24.64		
20	QPSK	1	99	24.62	24.72	24.67	22	0
20	QPSK	1	149	24.65	24.75	24.70		
20	QPSK	50	24	24.68	24.78	24.73		
20	QPSK	50	74	24.71	24.81	24.76		
20	QPSK	100	0	24.74	24.			



Band 12 Ant1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.22	24.47	24.29				
10	QPSK	1	25	24.33	24.33	24.33				
10	QPSK	1	49	24.29	24.31	24.27		24	0	
10	QPSK	25	0	24.27	24.40	24.31				
10	QPSK	25	12	24.38	24.32	24.35				
10	QPSK	25	25	24.37	24.21	24.32		24	0	
10	QPSK	50	0	24.30	24.37	24.30				
10	16QAM	1	0	24.21	24.27	24.27				
10	16QAM	1	25	24.33	24.28	24.32		24	0	
10	16QAM	1	49	24.32	24.32	24.30				
10	16QAM	25	0	24.30	24.35	24.33				
10	16QAM	25	12	23.70	23.67	23.65		23	1	
10	16QAM	25	25	23.89	23.74	23.73				
10	16QAM	50	0	24.09	24.21	24.03				
10	64QAM	1	0	24.22	24.17	24.25				
10	64QAM	1	25	24.27	24.24	24.28		24	0	
10	64QAM	1	49	24.29	24.20	24.28				
10	64QAM	25	0	23.77	23.80	23.83				
10	64QAM	25	12	23.89	23.86	23.87		23	0	
10	64QAM	25	25	23.90	23.91	23.91				
10	64QAM	50	0	23.87	23.81	23.83				
10	256QAM	1	0	20.56	20.66	20.56				
10	256QAM	1	25	20.70	20.73	20.65		19	5	
10	256QAM	1	49	20.55	20.71	20.60				
10	256QAM	25	0	20.58	20.62	20.57				
10	256QAM	25	12	20.80	20.89	20.69		19	5	
10	256QAM	25	25	20.71	20.53	20.57				
10	256QAM	50	0	20.69	20.63	20.50				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.09	24.22	24.10				
5	QPSK	1	25	24.12	24.12	24.09		24	0	
5	QPSK	1	24	24.24	24.24	24.24				
5	QPSK	12	0	24.12	24.34	24.24				
5	QPSK	12	7	24.24	24.24	24.28		24	0	
5	QPSK	12	13	24.25	24.11	24.12				
5	QPSK	25	0	24.10	24.26	24.26				
5	16QAM	1	0	24.05	24.07	24.13				
5	16QAM	1	12	24.15	24.22	24.28		24	0	
5	16QAM	1	24	23.90	23.93	23.43				
5	16QAM	12	7	23.84	23.50	23.38		23	1	
5	16QAM	12	13	23.68	23.70	23.64				
5	16QAM	25	0	23.43	23.39	23.43				
5	64QAM	1	0	23.87	24.00	24.15		24	0	
5	64QAM	1	0	23.68	24.00	23.60				
5	64QAM	1	24	24.17	24.02	24.03		24	0	
5	64QAM	12	0	23.82	23.54	23.73				
5	64QAM	12	7	23.79	23.70	23.64		23	1	
5	64QAM	12	13	23.92	23.57	23.85				
5	64QAM	25	0	23.70	23.59	23.62				
5	256QAM	1	0	18.84	18.88	18.84				
5	256QAM	1	12	18.80	18.82	18.82		19	5	
5	256QAM	1	24	18.64	18.89	18.87				
5	256QAM	12	0	18.60	18.66	18.69				
5	256QAM	12	7	18.70	18.87	18.85		19	5	
5	256QAM	12	13	18.76	18.80	18.84				
5	256QAM	25	0	18.81	18.47	18.62				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.05	24.20	24.14				
3	QPSK	1	0	24.11	24.20	24.07		25	0	
3	QPSK	1	14	24.05	24.20	24.08				
3	QPSK	1	0	24.07	24.27	24.16				
3	QPSK	8	7	24.33	24.00	24.24				
3	QPSK	8	7	24.23	24.01	24.26		25	0	
3	QPSK	16	0	24.22	24.30	24.22				
3	16QAM	1	0	24.04	24.04	24.20				
3	16QAM	1	8	24.10	24.04	24.11		25	0	
3	16QAM	1	8	24.15	24.20	24.06				
3	16QAM	8	0	23.44	23.43	23.59				
3	16QAM	8	4	23.81	23.43	23.43		25	0	
3	16QAM	15	0	23.51	23.60	23.47				
3	64QAM	1	0	23.81	24.00	24.30		25	0	
3	64QAM	1	8	24.02	24.02	24.17				
3	64QAM	1	14	24.23	23.94	24.15				
3	64QAM	8	0	23.74	23.73	23.78				
3	64QAM	8	4	23.83	23.81	23.84		25	0	
3	64QAM	8	7	23.70	23.70	23.70				
3	64QAM	15	0	23.75	23.61	23.71				
3	256QAM	1	0	20.50	20.71	20.57				
3	256QAM	1	8	20.67	20.70	20.70		21	4	
3	256QAM	1	14	20.47	20.55	20.53				
3	256QAM	8	0	20.46	20.51	20.51				
3	256QAM	8	4	20.80	20.73	20.85		21	4	
3	256QAM	8	7	20.81	20.63	20.66				
3	256QAM	15	0	20.52	20.70	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.22	24.20	24.14				
1.4	QPSK	1	3	24.26	24.30	24.30				
1.4	QPSK	1	5	24.21	24.26	24.27		25	0	
1.4	QPSK	3	0	24.31	24.33	24.38				
1.4	QPSK	3	1	24.32	24.30	24.37				
1.4	QPSK	3	3	24.27	24.29	24.38				
1.4	16QAM	1	0	24.30	24.27	24.37		25	0	
1.4	16QAM	1	0	24.31	24.32	24.40				
1.4	16QAM	1	3	24.31	24.34	24.38				
1.4	16QAM	3	1	24.22	24.31	24.34		25	0	
1.4	16QAM	3	1	24.08	24.17	24.17				
1.4	16QAM	3	1	24.05	24.10	24.18				
1.4	16QAM	6	0	24.05	24.14	24.08				
1.4	16QAM	6	0	23.73	23.69	23.79		25	0	
1.4	64QAM	1	0	24.20	24.30	24.26				
1.4	64QAM	1	3	24.26	24.38	24.28				
1.4	64QAM	1	5	24.11	24.28	24.27		25	0	
1.4	64QAM	3	0	24.24	24.11	24.31				
1.4	64QAM	3	0	24.19	24.28	24.29				
1.4	64QAM	3	3	24.13	24.21	24.26				
1.4	64QAM	6	0	23.82	23.70	23.86		25	0	
1.4	256QAM	1	0	20.45	20.65	20.47				
1.4	256QAM	1	3	20.60	20.71	20.72				
1.4	256QAM	1	3	20.89	20.94	20.90		21	4	
1.4	256QAM	3	0	20.84	20.71	20.80				
1.4	256QAM	3	1	20.75	20.51	20.69				
1.4	256QAM	3	3	20.76	20.43	20.62		21	4	
1.4	256QAM	15	0	20.84	20.77	20.58				

Band 13 Ant1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.89	22.89				
10	QPSK	1	25	22.89	22.89	22.89		24	0	
10	QPSK	1	49	22.81	22.81	22.81				
10	QPSK	25	0	22.82	22.82	22.82				
10	QPSK	25	12	22.82	22.82	22.82		24	0	
10	QPSK	25	25	22.13	22.13	22.13				
10	QPSK	50	0	22.45	22.45	22.45				
10	16QAM	1	0	22.41	22.41	22.41				
10	16QAM	1	25	22.43	22.43	22.43		24	0	
10	16QAM	1	49	22.10	22.10	22.10				
10	16QAM	25	0	21.54	21.54	21.54				
10	16QAM	25	12	21.22	21.22	21.22		23	1	
10	16QAM	25	25	21.88	21.88	21.88				
10	16QAM	50	0	21.08	21.08	21.08				
10	64QAM	1	0	22.22	22.22	22.22				
10	64QAM	1	25	22.26	22.26					



Band 25 Ant1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.57	20.66	20.66				
20	QPSK	1	49	20.56	20.65	20.65	22	0		
20	QPSK	1	99	20.46	20.66	20.62				
20	QPSK	50	0	20.50	20.60	20.59				
20	QPSK	50	24	20.38	20.50	20.42	22	0		
20	QPSK	50	50	20.46	20.53	20.48				
20	QPSK	100	0	20.57	20.63	20.62				
20	16QAM	50	0	20.55	20.60	20.61				
20	16QAM	1	49	20.48	20.58	20.50	22	0		
20	16QAM	1	99	20.56	20.63	20.68				
20	16QAM	50	0	20.48	20.57	20.44				
20	16QAM	50	24	20.42	20.41	20.42	22	0		
20	16QAM	50	50	20.46	20.48	20.36				
20	16QAM	100	0	20.38	20.58	20.47				
20	84QAM	1	0	20.37	20.56	20.50				
20	84QAM	1	49	20.36	20.45	20.53	22	0		
20	84QAM	1	99	20.50	20.56	20.63				
20	84QAM	50	0	20.32	20.40	20.31				
20	84QAM	50	24	20.37	20.39	20.31	22	0		
20	84QAM	50	50	20.36	20.39	20.32				
20	84QAM	100	0	20.30	20.30	20.28				
20	256QAM	1	49	18.96	19.07	19.09	20	2		
20	256QAM	1	99	19.06	19.14	19.13				
20	256QAM	50	0	18.97	19.06	19.05				
20	256QAM	50	24	18.96	18.92	18.97	20	2		
20	256QAM	50	50	18.92	19.01	18.99				
20	256QAM	100	0	18.97	18.97	18.97				
Channel										
Frequency (MHz)										
18	QPSK	1	0	20.49	20.56	20.50				
18	QPSK	1	37	20.47	20.56	20.47	22	0		
18	QPSK	1	74	20.63	20.57	20.50				
18	QPSK	36	0	20.38	20.41	20.48				
18	QPSK	36	39	20.29	20.43	20.34	22	0		
18	QPSK	36	75	20.41	20.40	20.34				
18	16QAM	1	0	20.45	20.45	20.42				
18	16QAM	1	37	20.45	20.48	20.43	22	0		
18	16QAM	1	74	20.47	20.47	20.47				
18	16QAM	36	0	20.36	20.51	20.36				
18	16QAM	36	39	20.33	20.33	20.34	22	0		
18	16QAM	36	75	20.28	20.40	20.32				
18	84QAM	1	0	20.28	20.46	20.42				
18	84QAM	1	37	20.31	20.39	20.41	22	0		
18	84QAM	1	74	20.41	20.42	20.51				
18	84QAM	36	0	20.22	20.33	20.20				
18	84QAM	36	39	20.28	20.31	20.34	22	0		
18	84QAM	36	75	20.25	20.25	20.23				
18	84QAM	75	0	20.18	20.22	20.16				
18	256QAM	1	49	18.93	19.03	19.06	20	2		
18	256QAM	1	99	19.01	18.92	19.07				
18	256QAM	50	0	18.78	18.96	18.96				
18	256QAM	50	24	18.89	18.81	18.82	20	2		
18	256QAM	50	50	18.85	18.84	18.79				
18	256QAM	100	0	18.81	18.83	18.89				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.40	20.58	20.42	22	0		
15	QPSK	1	25	20.40	20.58	20.42				
15	QPSK	1	49	20.40	20.60	20.51				
15	QPSK	12	0	20.36	20.48	20.48	22	0		
15	QPSK	25	12	20.32	20.38	20.32				
15	QPSK	25	25	20.32	20.47	20.36				
15	16QAM	1	0	20.47	20.49	20.44				
15	16QAM	1	0	20.42	20.46	20.35				
15	16QAM	1	24	20.33	20.48	20.41	22	0		
15	16QAM	1	49	20.43	20.46	20.46				
15	16QAM	25	0	20.42	20.46	20.37				
15	16QAM	25	12	20.33	20.32	20.32	22	0		
15	16QAM	25	25	20.33	20.43	20.36				
15	16QAM	50	0	20.27	20.40	20.35				
15	84QAM	1	0	20.26	20.44	20.43				
15	84QAM	1	24	20.25	20.39	20.47	22	0		
15	84QAM	1	49	20.43	20.40	20.37				
15	84QAM	25	0	20.21	20.33	20.23				
15	84QAM	25	12	20.25	20.30	20.25	22	0		
15	84QAM	25	25	20.24	20.30	20.25				
15	84QAM	50	0	20.21	20.24	20.18				
15	256QAM	1	24	18.93	18.93	18.99	20	2		
15	256QAM	1	49	18.93	19.03	19.06				
15	256QAM	25	0	18.78	18.96	18.96				
15	256QAM	25	12	18.90	18.80	18.84	20	2		
15	256QAM	25	25	18.79	18.84	18.75				
15	256QAM	50	0	18.81	18.87	18.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.43	20.56	20.49	22	0		
3	QPSK	1	12	20.45	20.53	20.46				
3	QPSK	1	24	20.53	20.53	20.49				
3	QPSK	12	0	20.36	20.43	20.44	22	0		
3	QPSK	12	7	20.38	20.39	20.30				
3	QPSK	12	13	20.31	20.46	20.41				
3	QPSK	25	0	20.44	20.53	20.46				
3	16QAM	1	0	20.43	20.46	20.49				
3	16QAM	1	12	20.38	20.42	20.37	22	0		
3	16QAM	1	24	20.43	20.45	20.48				
3	16QAM	12	0	20.34	20.43	20.36				
3	16QAM	12	7	20.33	20.26	20.30	22	0		
3	16QAM	12	13	20.40	20.41	20.28				
3	16QAM	25	0	20.28	20.47	20.36				
3	84QAM	1	0	20.24	20.50	20.35				
3	84QAM	1	12	20.22	20.30	20.43	22	0		
3	84QAM	1	24	20.43	20.44	20.49				
3	84QAM	12	0	20.24	20.31	20.18				
3	84QAM	12	7	20.29	20.29	20.17	22	0		
3	84QAM	12	13	20.24	20.23	20.18				
3	84QAM	25	0	20.22	20.17	20.20				
3	256QAM	1	0	18.95	19.11	18.97	20	2		
3	256QAM	1	12	18.90	18.96	18.94				
3	256QAM	1	24	18.90	18.99	19.01				
3	256QAM	12	0	18.75	18.95	18.93				
3	256QAM	12	7	18.82	18.82	18.81	20	2		
3	256QAM	12	13	18.85	18.90	18.81				
3	256QAM	25	0	18.83	18.91	18.82				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.50	20.59	20.59	22	0		
1.4	QPSK	1	8	20.47	20.57	20.47				
1.4	QPSK	1	14	20.55	20.56	20.55				
1.4	QPSK	8	0	20.36	20.47	20.36	22	0		
1.4	QPSK	8	4	20.26	20.36	20.31				
1.4	QPSK	8	7	20.33	20.42	20.38				
1.4	QPSK	15	0	20.44	20.53	20.41				
1.4	16QAM	1	0	20.44	20.53	20.47				
1.4	16QAM	1	8	20.40	20.50	20.38	22	0		
1.4	16QAM	1	14	20.44	20.56	20.52				
1.4	16QAM	8	0	20.41	20.49	20.35				
1.4	16QAM	8	4	20.37	20.38	20.31	22	0		
1.4	16QAM	8	7	20.39	20.40	20.27				
1.4	16QAM	15	0	20.31	20.49	20.39				
1.4	84QAM	1	0	20.31	20.48	20.42				
1.4	84QAM	1	8	20.31	20.38	20.42	22	0		
1.4	84QAM	1	14	20.36	20.40	20.34				
1.4	84QAM	8	0	20.17	20.31	20.18				
1.4	84QAM	8	4	20.30	20.18	20.20	22	0		
1.4	84QAM	8	7	20.24	20.29	20.20				



Band 66 Ant1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.71	18.64	18.76	20.4	0		
20	QPSK	1	49	18.72	18.78	18.87	20.4	0		
20	QPSK	50	0	18.70	18.77	18.84	20.4	0		
20	QPSK	50	24	18.58	18.52	18.80	20.4	0		
20	QPSK	50	50	18.52	18.57	18.58	20.4	0		
20	QPSK	100	0	18.64	18.65	18.85	20.4	0		
20	16QAM	1	49	18.83	18.71	18.73	20.4	0		
20	16QAM	1	99	18.63	18.70	18.73	20.4	0		
20	16QAM	50	0	18.51	18.59	18.59	20.4	0		
20	16QAM	50	24	18.59	18.51	18.59	20.4	0		
20	16QAM	50	50	18.53	18.52	18.45	20.4	0		
20	16QAM	100	0	18.45	18.50	18.45	20.4	0		
20	64QAM	1	49	18.52	18.63	18.52	20.4	0		
20	64QAM	1	99	18.56	18.50	18.46	20.4	0		
20	64QAM	50	0	18.46	18.40	18.50	20.4	0		
20	64QAM	50	24	18.48	18.52	18.48	20.4	0		
20	64QAM	50	50	18.48	18.50	18.45	20.4	0		
20	256QAM	1	49	18.56	18.49	18.54	20	0.4		
20	256QAM	1	99	18.34	18.28	18.63	20	0.4		
20	256QAM	50	24	18.28	18.50	18.52	20	0.4		
20	256QAM	50	50	18.57	18.64	18.61	20	0.4		
20	256QAM	100	0	18.43	18.50	18.73	20	0.4		
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.69	18.78	18.88	20.4	0		
15	QPSK	1	39	18.55	18.56	18.69	20.4	0		
15	QPSK	1	74	18.62	18.67	18.61	20.4	0		
15	QPSK	36	0	18.64	18.64	18.55	20.4	0		
15	QPSK	36	20	18.48	18.49	18.49	20.4	0		
15	QPSK	36	39	18.42	18.48	18.48	20.4	0		
15	QPSK	75	0	18.53	18.50	18.50	20.4	0		
15	16QAM	1	49	18.48	18.60	18.52	20.4	0		
15	16QAM	1	39	18.56	18.63	18.52	20.4	0		
15	16QAM	1	74	18.56	18.40	18.46	20.4	0		
15	16QAM	36	0	18.50	18.49	18.54	20.4	0		
15	16QAM	36	20	18.50	18.45	18.54	20.4	0		
15	16QAM	36	39	18.56	18.49	18.66	20.4	0		
15	16QAM	75	0	18.56	18.49	18.66	20.4	0		
15	64QAM	1	49	18.63	18.54	18.49	20.4	0		
15	64QAM	1	39	18.43	18.54	18.47	20.4	0		
15	64QAM	1	74	18.50	18.52	18.53	20.4	0		
15	64QAM	36	0	18.52	18.61	18.47	20.4	0		
15	64QAM	36	20	18.53	18.46	18.58	20.4	0		
15	64QAM	36	39	18.58	18.52	18.53	20.4	0		
15	64QAM	75	0	18.66	18.42	18.46	20.4	0		
15	256QAM	1	49	18.58	18.46	18.48	20	0.4		
15	256QAM	1	39	18.19	18.50	18.49	20	0.4		
15	256QAM	1	74	18.24	18.10	18.49	20	0.4		
15	256QAM	36	0	18.37	18.52	18.45	20	0.4		
15	256QAM	36	20	18.19	18.48	18.47	20	0.4		
15	256QAM	36	39	18.36	18.48	18.49	20	0.4		
15	256QAM	75	0	18.19	18.53	18.48	20	0.4		
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.75	18.78	18.85	20.4	0		
10	QPSK	1	25	18.52	18.52	18.51	20.4	0		
10	QPSK	1	49	18.63	18.67	18.53	20.4	0		
10	QPSK	25	0	18.58	18.50	18.50	20.4	0		
10	QPSK	25	12	18.47	18.42	18.52	20.4	0		
10	QPSK	25	25	18.49	18.48	18.46	20.4	0		
10	QPSK	50	0	18.53	18.50	18.50	20.4	0		
10	16QAM	1	0	18.56	18.59	18.59	20.4	0		
10	16QAM	1	25	18.42	18.67	18.52	20.4	0		
10	16QAM	1	49	18.58	18.46	18.46	20.4	0		
10	16QAM	25	0	18.07	18.49	18.45	20.4	0		
10	16QAM	25	12	18.50	18.40	18.53	20.4	0		
10	16QAM	25	25	18.66	18.44	18.53	20.4	0		
10	16QAM	50	0	18.53	18.57	18.53	20.4	0		
10	64QAM	1	0	18.62	18.55	18.52	20.4	0		
10	64QAM	1	25	18.44	18.53	18.58	20.4	0		
10	64QAM	1	49	18.42	18.64	18.54	20.4	0		
10	64QAM	25	0	18.55	18.57	18.53	20.4	0		
10	64QAM	25	12	18.56	18.52	18.63	20.4	0		
10	64QAM	25	25	18.57	18.58	18.62	20.4	0		
10	64QAM	50	0	18.66	18.49	18.53	20.4	0		
10	256QAM	1	25	18.49	18.38	18.35	20	0.4		
10	256QAM	1	49	18.44	18.38	18.33	20	0.4		
10	256QAM	1	25	18.19	18.50	18.49	20	0.4		
10	256QAM	25	12	18.31	18.50	18.45	20	0.4		
10	256QAM	25	25	18.40	18.38	18.50	20	0.4		
10	256QAM	50	0	18.41	18.40	18.30	20	0.4		
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.53	18.52	18.45	20.4	0		
5	QPSK	1	12	18.53	18.54	18.57	20.4	0		
5	QPSK	1	24	18.68	18.69	18.54	20.4	0		
5	QPSK	12	0	18.51	18.58	18.58	20.4	0		
5	QPSK	12	7	18.51	18.49	18.52	20.4	0		
5	QPSK	12	13	18.41	18.48	18.52	20.4	0		
5	QPSK	25	0	18.50	18.48	18.58	20.4	0		
5	16QAM	1	0	18.53	18.67	18.53	20.4	0		
5	16QAM	1	12	18.59	18.63	18.57	20.4	0		
5	16QAM	1	24	18.56	18.53	18.67	20.4	0		
5	16QAM	12	0	18.42	18.47	18.45	20.4	0		
5	16QAM	12	7	18.48	18.42	18.51	20.4	0		
5	16QAM	12	13	18.42	18.47	18.53	20.4	0		
5	16QAM	25	0	18.56	18.53	18.61	20.4	0		
5	64QAM	1	0	18.62	18.57	18.45	20.4	0		
5	64QAM	1	12	18.45	18.50	18.43	20.4	0		
5	64QAM	1	24	18.43	18.60	18.57	20.4	0		
5	64QAM	12	0	18.55	18.54	18.59	20.4	0		
5	64QAM	12	7	18.69	18.57	18.57	20.4	0		
5	64QAM	12	13	18.56	18.49	18.66	20.4	0		
5	64QAM	25	0	18.66	18.53	18.50	20.4	0		
5	256QAM	1	1	18.51	18.39	18.39	20	0.4		
5	256QAM	1	12	18.32	18.20	18.47	20	0.4		
5	256QAM	1	24	18.22	18.38	18.40	20	0.4		
5	256QAM	12	0	18.38	18.45	18.22	20	0.4		
5	256QAM	12	7	18.16	18.54	18.41	20	0.4		
5	256QAM	12	13	18.39	18.32	18.49	20	0.4		
5	256QAM	25	0	18.53	18.42	18.29	20	0.4		
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.41	18.71	18.53	20.4	0		
3	QPSK	1	8	18.47	18.59	18.57	20.4	0		
3	QPSK	1	14	18.59	18.67	18.58	20.4	0		
3	QPSK	8	0	18.62	18.68	18.56	20.4	0		
3	QPSK	8	4	18.49	18.46	18.47	20.4	0		
3	QPSK	8	7	18.46	18.52	18.50	20.4	0		
3	QPSK	15	0	18.49	18.50	18.54	20.4	0		
3	16QAM	1	0	18.54	18.60	18.61	20.4	0		
3	16QAM	1	8	18.41	18.67	18.55	20.4	0		
3	16QAM	1	14	18.56	18.63	18.61	20.4	0		
3	16QAM	8	0	18.49	18.47	18.51	20.4	0		
3	16QAM	8	4	18.52	18.43	18.47	20.4	0		
3	16QAM	8	7	18.45	18.45	18.66	20.4	0		
3	16QAM	15	0	18.42	18.54	18.63	20.4	0		
3	64QAM	1	0	18.62	18.58	18.61	20.4	0		
3	64QAM	1	8	18.48	18.57	18.44	20.4	0		
3	64QAM	1	14	18.42	18.57	18.62	20.4	0		
3	64QAM	8	0	18.62	18.44	18.55	20.			



Band 12 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.22	24.47	24.29				
10	QPSK	1	25	24.33	24.33	24.33				
10	QPSK	1	49	24.29	24.31	24.27		24	0	
10	QPSK	25	0	24.27	24.40	24.31				
10	QPSK	25	12	24.38	24.32	24.38				
10	QPSK	25	25	24.37	24.21	24.32				
10	QPSK	50	0	24.30	24.37	24.30				
10	16QAM	1	0	24.21	24.27	24.27				
10	16QAM	1	25	24.33	24.28	24.32		24	0	
10	16QAM	1	49	24.32	24.32	24.30				
10	16QAM	5	0	24.30	24.33	24.33				
10	16QAM	25	12	23.70	23.87	23.85		23	0	
10	16QAM	25	25	23.88	23.74	23.73				
10	16QAM	50	0	24.08	24.21	24.03				
10	64QAM	1	0	24.22	24.17	24.25				
10	64QAM	1	25	24.27	24.24	24.28		24	0	
10	64QAM	1	49	24.29	24.20	24.28				
10	64QAM	25	0	23.77	23.80	23.83				
10	64QAM	25	12	23.89	23.86	23.87				
10	64QAM	25	25	23.90	23.91	23.91				
10	64QAM	50	0	23.87	23.81	23.83		23	0	
10	256QAM	1	0	20.56	20.66	20.64				
10	256QAM	1	25	20.70	20.73	20.65		19	4	
10	256QAM	1	49	20.55	20.71	20.60				
10	256QAM	5	0	20.60	20.62	20.62				
10	256QAM	25	12	20.80	20.89	20.69		19	4	
10	256QAM	25	25	20.71	20.53	20.57				
10	256QAM	50	0	20.62	20.63	20.62				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.09	24.22	24.10				
5	QPSK	1	25	24.12	24.12	24.09				
5	QPSK	1	24	24.24	24.24	24.24		24	0	
5	QPSK	12	0	24.12	24.34	24.24				
5	QPSK	12	7	24.24	24.24	24.28				
5	QPSK	12	13	24.25	24.11	24.12		24	0	
5	QPSK	25	0	24.10	24.26	24.26				
5	16QAM	1	0	24.05	24.07	24.13				
5	16QAM	1	12	24.15	24.22	24.28		24	0	
5	16QAM	1	24	24.08	24.20	24.05				
5	16QAM	12	7	23.84	23.50	23.38		23	0	
5	16QAM	12	13	23.90	23.70	23.65				
5	16QAM	25	0	23.43	23.39	23.43				
5	64QAM	1	0	23.87	24.00	24.15		24	0	
5	64QAM	1	0	23.88	24.00	24.00				
5	64QAM	1	24	24.17	24.02	24.03		24	0	
5	64QAM	12	0	23.82	23.54	23.73				
5	64QAM	12	7	23.79	23.70	23.65				
5	64QAM	12	13	23.92	23.57	23.85		23	0	
5	64QAM	25	0	23.70	23.59	23.62				
5	256QAM	1	0	18.84	18.88	18.84				
5	256QAM	1	12	18.71	18.65	18.67		19	5	
5	256QAM	1	24	18.64	18.89	18.87				
5	256QAM	12	0	18.86	18.66	18.69				
5	256QAM	12	7	18.70	18.87	18.85		19	5	
5	256QAM	12	13	18.78	18.80	18.84				
5	256QAM	25	0	18.81	18.47	18.62				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.05	24.20	24.14				
3	QPSK	1	0	24.11	24.20	24.07				
3	QPSK	1	14	24.05	24.20	24.08				
3	QPSK	1	0	24.07	24.27	24.16				
3	QPSK	8	0	24.33	24.00	24.24				
3	QPSK	8	7	24.23	24.01	24.26		25	0	
3	QPSK	16	0	24.22	24.30	24.22				
3	16QAM	1	0	24.04	24.04	24.20				
3	16QAM	1	8	24.10	24.04	24.11		25	0	
3	16QAM	8	0	24.15	24.20	24.06				
3	16QAM	8	0	23.44	23.43	23.59				
3	16QAM	8	4	23.81	23.43	23.43		25	0	
3	16QAM	15	0	23.51	23.60	23.47				
3	64QAM	1	0	23.81	24.00	24.30		25	0	
3	64QAM	1	8	24.02	24.02	24.17				
3	64QAM	1	14	24.23	23.94	24.15				
3	64QAM	8	0	23.74	23.73	23.78				
3	64QAM	8	4	23.83	23.81	23.84				
3	64QAM	8	7	23.70	23.70	23.70		25	0	
3	64QAM	15	0	23.75	23.61	23.71				
3	256QAM	1	0	20.50	20.71	20.57				
3	256QAM	1	8	20.67	20.70	20.70		21	4	
3	256QAM	1	14	20.47	20.55	20.53				
3	256QAM	8	0	20.46	20.50	20.50				
3	256QAM	8	4	20.80	20.73	20.85		21	4	
3	256QAM	8	0	20.45	20.65	20.52				
3	256QAM	15	0	20.52	20.70	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.22	24.20	24.14				
1.4	QPSK	1	3	24.26	24.30	24.30				
1.4	QPSK	1	5	24.21	24.26	24.27		25	0	
1.4	QPSK	3	0	24.31	24.33	24.38				
1.4	QPSK	3	1	24.32	24.30	24.37				
1.4	QPSK	3	3	24.27	24.29	24.38				
1.4	16QAM	1	0	24.30	24.27	24.37		25	0	
1.4	16QAM	1	0	24.31	24.32	24.40				
1.4	16QAM	1	3	24.31	24.34	24.38				
1.4	16QAM	3	1	24.22	24.31	24.34		25	0	
1.4	16QAM	3	1	24.08	24.17	24.17				
1.4	16QAM	3	1	24.05	24.10	24.18				
1.4	16QAM	6	0	24.05	24.14	24.08				
1.4	16QAM	6	0	23.73	23.69	23.79		25	0	
1.4	64QAM	1	0	24.20	24.30	24.26				
1.4	64QAM	1	3	24.26	24.38	24.28				
1.4	64QAM	1	5	24.11	24.28	24.27		25	0	
1.4	64QAM	3	0	24.24	24.11	24.31				
1.4	64QAM	3	0	24.19	24.28	24.29				
1.4	64QAM	3	3	24.13	24.21	24.26				
1.4	64QAM	6	0	23.82	23.70	23.86		25	0	
1.4	256QAM	1	0	20.45	20.65	20.47				
1.4	256QAM	1	3	20.60	20.71	20.72				
1.4	256QAM	1	5	20.88	20.94	20.90		21	4	
1.4	256QAM	3	0	20.84	20.71	20.80				
1.4	256QAM	3	1	20.75	20.51	20.69				
1.4	256QAM	3	3	20.76	20.43	20.62		21	4	
1.4	256QAM	6	0	20.84	20.77	20.58				

Band 13 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.89	22.89				
10	QPSK	1	25	22.89	22.89	22.89				
10	QPSK	1	49	22.81	22.81	22.81		24	0	
10	QPSK	25	0	22.82	22.82	22.82				
10	QPSK	25	12	22.82	22.82	22.82				
10	QPSK	25	25	22.13	22.13	22.13		24	0	
10	QPSK	50	0	22.82	22.82	22.82				
10	16QAM	1	0	22.81	22.81	22.81				
10	16QAM	1	25	22.43	22.43	22.43		24	0	
10	16QAM	1	49	22.10	22.10	22.10				
10	16QAM	25	0	21.54	21.54	21.54				
10	16QAM	25	12	21.22	21.22	21.22		23	1	
10	16QAM	25	25	21.88	21.88	21.88				
10	16QAM	50	0	21.88	21.88	21.88				
10	64QAM	1	0	22.22	22.22	22.22				
10	64QAM	1	25	22.36	22.36	22.36				



Band 25 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.12	17.13	16.95				
20	QPSK	1	49	17.00	17.11	16.93			18	0
20	QPSK	1	99	17.00	17.11	17.11				
20	QPSK	50	0	16.91	17.10	16.93				
20	QPSK	50	24	16.96	16.97	16.98			18	0
20	QPSK	50	50	16.92	16.96	16.91				
20	QPSK	100	0	17.01	17.14	16.91				
20	16QAM	1	0	16.95	17.17	16.98				
20	16QAM	1	49	16.98	17.01	17.08			18	0
20	16QAM	1	99	17.07	17.10	17.04				
20	16QAM	50	0	16.90	17.09	16.99				
20	16QAM	50	24	16.91	16.94	16.95			18	0
20	16QAM	50	50	16.93	16.93	16.94				
20	16QAM	100	0	16.98	17.06	16.93				
20	64QAM	1	0	16.85	17.07	16.88				
20	64QAM	1	49	16.86	16.90	16.96			18	0
20	64QAM	50	0	16.90	16.99	16.88				
20	64QAM	50	0	16.94	16.90	16.81				
20	64QAM	50	24	16.75	16.85	16.74			18	0
20	64QAM	50	50	16.77	16.78	16.80				
20	64QAM	100	0	16.74	16.80	16.76				
20	256QAM	1	0	16.83	16.95	16.85				
20	256QAM	1	49	16.84	16.84	16.88			18	0
20	256QAM	1	99	16.94	17.06	16.88				
20	256QAM	50	0	16.87	16.88	16.88				
20	256QAM	50	24	16.83	16.85	16.82			18	0
20	256QAM	50	50	16.78	16.83	16.85				
20	256QAM	100	0	16.76	16.82	16.77				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.98	17.11	16.84				
15	QPSK	1	37	16.92	17.01	16.91			18	0
15	QPSK	1	74	16.93	17.04	17.04				
15	QPSK	36	0	16.80	17.02	16.79				
15	QPSK	36	20	16.86	16.86	16.82			18	0
15	QPSK	36	39	16.79	16.83	16.80				
15	QPSK	75	0	16.88	16.92	16.78				
15	16QAM	1	0	16.83	17.05	16.74				
15	16QAM	1	37	16.86	16.90	16.95			18	0
15	16QAM	1	74	16.87	16.91	16.88				
15	16QAM	36	0	16.83	16.97	16.88				
15	16QAM	36	20	16.83	16.84	16.81			18	0
15	16QAM	36	39	16.77	16.89	16.80				
15	16QAM	75	0	16.80	16.93	16.79				
15	64QAM	1	0	16.71	16.89	16.74				
15	64QAM	1	37	16.73	16.89	16.80			18	0
15	64QAM	1	74	16.73	16.82	16.87				
15	64QAM	36	0	16.84	16.87	16.84				
15	64QAM	36	20	16.86	16.85	16.73			18	0
15	64QAM	36	39	16.86	16.88	16.82				
15	64QAM	75	0	16.83	16.86	16.82				
15	256QAM	1	0	16.83	16.86	16.85				
15	256QAM	1	37	16.75	16.80	16.81			18	0
15	256QAM	1	74	16.80	16.88	16.85				
15	256QAM	36	0	16.76	16.82	16.80				
15	256QAM	36	20	16.70	16.73	16.87			18	0
15	256QAM	36	39	16.69	16.76	16.73				
15	256QAM	75	0	16.82	16.85	16.78				
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.00	16.98	16.90				
10	QPSK	1	25	16.85	17.03	16.92			18	0
10	QPSK	1	49	16.88	17.11	16.98				
10	QPSK	12	0	16.81	17.04	16.87				
10	QPSK	25	12	16.89	16.82	16.85			18	0
10	QPSK	25	25	16.78	16.88	16.80				
10	QPSK	50	0	16.83	17.05	16.84				
10	16QAM	1	0	16.83	16.99	16.98				
10	16QAM	1	24	16.84	16.96	16.94			18	0
10	16QAM	1	49	16.80	16.91	16.88				
10	16QAM	25	0	16.83	16.94	16.90				
10	16QAM	25	12	16.80	16.85	16.86			18	0
10	16QAM	25	25	16.81	16.85	16.87				
10	16QAM	50	0	16.80	16.87	16.81				
10	64QAM	1	0	16.72	16.87	16.78				
10	64QAM	1	24	16.74	16.85	16.88			18	0
10	64QAM	1	49	16.79	16.89	16.85				
10	64QAM	25	0	16.73	16.80	16.87				
10	64QAM	25	12	16.70	16.82	16.80			18	0
10	64QAM	25	25	16.67	16.87	16.74				
10	64QAM	50	0	16.64	16.75	16.82				
10	256QAM	1	0	16.70	16.89	16.88				
10	256QAM	1	24	16.76	16.87	16.85			18	0
10	256QAM	1	49	16.86	16.97	16.88				
10	256QAM	25	0	16.64	16.75	16.82				
10	256QAM	25	12	16.74	16.78	16.75			18	0
10	256QAM	25	25	16.68	16.71	16.74				
10	256QAM	50	0	16.65	16.82	16.75				
Channel										
Frequency (MHz)										
5	QPSK	1	0	17.02	16.99	16.91				
5	QPSK	1	12	16.87	17.00	16.88			18	0
5	QPSK	1	24	16.86	17.07	17.00				
5	QPSK	12	0	16.81	17.04	16.86				
5	QPSK	12	7	16.82	16.92	16.90			18	0
5	QPSK	12	13	16.79	16.87	16.83				
5	QPSK	25	0	16.87	16.86	16.83				
5	16QAM	1	0	16.85	17.02	16.98				
5	16QAM	1	12	16.92	16.87	16.95			18	0
5	16QAM	1	24	16.87	16.86	16.83				
5	16QAM	12	0	16.79	16.89	16.91				
5	16QAM	12	7	16.76	16.86	16.82			18	0
5	16QAM	12	13	16.87	16.85	16.73				
5	16QAM	25	0	16.75	16.86	16.81				
5	64QAM	1	0	16.73	17.01	16.74				
5	64QAM	1	12	16.79	16.79	16.89			18	0
5	64QAM	1	24	16.76	16.88	16.88				
5	64QAM	12	0	16.74	16.76	16.68				
5	64QAM	12	7	16.65	16.79	16.80			18	0
5	64QAM	12	13	16.68	16.67	16.75				
5	64QAM	25	0	16.60	16.70	16.67				
5	256QAM	1	0	16.88	16.85	16.87				
5	256QAM	1	12	16.73	16.84	16.93			18	0
5	256QAM	1	24	16.86	16.99	16.89				
5	256QAM	12	0	16.66	16.76	16.71				
5	256QAM	12	7	16.77	16.71	16.75			18	0
5	256QAM	12	13	16.70	16.74	16.77				
5	256QAM	25	0	16.64	16.86	16.73				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.92	17.12	16.93				
3	QPSK	1	8	16.90	16.96	16.91			18	0
3	QPSK	1	14	16.89	17.03	16.99				
3	QPSK	8	0	16.82	17.08	16.83				
3	QPSK	8	4	16.83	16.92	16.85			18	0
3	QPSK	8	7	16.85	16.83	16.79				
3	QPSK	15	0	16.88	17.01	16.83				
3	16QAM	1	0	16.86	17.03	17.02				
3	16QAM	1	8	16.89	16.89	16.94			18	0
3	16QAM	1	14	16.93	17.01	16.98				
3	16QAM	8	0	16.81	16.95	16.92				
3	16QAM	8	4	16.78	16.87	16.86			18	0
3	16QAM	8	7	16.79	16.78	16.72				
3	16QAM	15	0	16.75	16.95	16.79				
3	64QAM	1	0	16.78	16.94	16.74				
3	64QAM	1	8</							



Band 66 Ant1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.17	16.20	16.21	17.5	0		
20	QPSK	1	49	16.23	16.26	16.19				
20	QPSK	50	0	16.16	16.20	16.05				
20	QPSK	50	24	16.08	16.08	16.08				
20	QPSK	50	50	16.00	16.08	16.07				
20	QPSK	100	0	16.13	16.13	16.11				
20	16QAM	1	49	16.03	16.17	16.11	17.5	0		
20	16QAM	1	99	16.17	16.21	16.18				
20	16QAM	50	0	16.04	16.13	16.04				
20	16QAM	50	24	16.04	16.07	16.10				
20	16QAM	50	50	15.99	16.06	16.04				
20	16QAM	100	0	16.04	16.03	16.06				
20	64QAM	1	0	15.98	16.17	16.02				
20	64QAM	1	49	16.07	16.13	16.02	17.5	0		
20	64QAM	1	99	16.14	16.10	16.22				
20	64QAM	50	0	15.99	16.03	16.04				
20	64QAM	50	24	15.99	15.94	15.98				
20	64QAM	50	50	15.97	15.97	15.99				
20	64QAM	100	0	15.99	16.00	15.98	17.5	0		
20	256QAM	1	49	16.09	16.04	16.07				
20	256QAM	1	99	16.07	16.11	16.08	17.5	0		
20	256QAM	1	99	16.10	16.18	16.10				
20	256QAM	50	24	15.95	15.95	15.95				
20	256QAM	50	24	15.96	15.99	15.95				
20	256QAM	50	50	15.89	16.02	15.90	17.5	0		
20	256QAM	100	0	15.93	16.00	15.93				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.12	16.10	16.14	17.5	0		
15	QPSK	1	33	16.06	16.10	16.12				
15	QPSK	1	74	16.10	16.10	16.13				
15	QPSK	36	0	16.10	16.11	15.91				
15	QPSK	36	20	15.95	15.96	15.97				
15	QPSK	36	39	15.94	16.02	15.99	17.5	0		
15	QPSK	75	0	16.03	16.10	16.04				
15	16QAM	1	49	16.03	16.07	16.04				
15	16QAM	1	37	16.14	16.05	16.01	17.5	0		
15	16QAM	1	74	16.11	16.13	16.14				
15	16QAM	36	0	15.92	16.00	15.96				
15	16QAM	36	20	15.93	15.91	16.05	17.5	0		
15	16QAM	36	39	15.95	16.00	15.95				
15	16QAM	75	0	15.91	15.91	15.84				
15	64QAM	1	0	15.88	16.11	15.94				
15	64QAM	1	37	15.93	16.06	15.94	17.5	0		
15	64QAM	1	74	15.96	16.04	16.10				
15	64QAM	36	0	15.77	15.93	15.73				
15	64QAM	36	20	15.84	15.88	15.78				
15	64QAM	36	39	15.87	15.92	15.77	17.5	0		
15	64QAM	75	0	15.88	15.90	15.88				
15	256QAM	1	49	15.95	15.95	15.92				
15	256QAM	1	37	15.95	16.07	15.94	17.5	0		
15	256QAM	1	74	16.04	16.09	16.07				
15	256QAM	36	0	15.86	16.02	15.86				
15	256QAM	36	20	15.82	15.82	15.80				
15	256QAM	36	39	15.77	15.94	15.76	17.5	0		
15	256QAM	75	0	15.86	15.87	15.77				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.09	16.16	16.14	17.5	0		
10	QPSK	1	26	16.03	16.15	16.05				
10	QPSK	1	49	16.12	16.17	16.04				
10	QPSK	25	12	16.07	16.07	16.06				
10	QPSK	25	12	15.96	15.89	15.92	17.5	0		
10	QPSK	25	25	15.87	16.01	15.94				
10	QPSK	50	0	16.07	16.07	16.08				
10	16QAM	1	0	15.99	16.10	16.07				
10	16QAM	1	26	16.04	16.11	16.00	17.5	0		
10	16QAM	1	49	16.03	16.06	16.02				
10	16QAM	25	0	15.91	16.00	15.98				
10	16QAM	25	12	15.83	15.86	15.98	17.5	0		
10	16QAM	25	25	15.90	15.85	15.84				
10	16QAM	50	0	15.94	15.99	15.88				
10	64QAM	1	0	15.92	16.03	15.88	17.5	0		
10	64QAM	1	26	15.85	16.02	15.88				
10	64QAM	1	49	16.08	15.99	16.09				
10	64QAM	25	0	15.76	15.89	15.76				
10	64QAM	25	12	15.89	15.82	15.81	17.5	0		
10	64QAM	25	25	15.83	15.82	15.75				
10	64QAM	50	0	15.85	15.86	15.90				
10	256QAM	1	49	16.01	15.85	15.98				
10	256QAM	1	26	15.99	16.05	16.01	17.5	0		
10	256QAM	1	49	16.05	16.12	16.01				
10	256QAM	1	99	16.02	15.96	15.92				
10	256QAM	25	12	15.88	15.84	15.85	17.5	0		
10	256QAM	25	25	15.82	15.83	15.78				
10	256QAM	50	0	15.85	15.87	15.88				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.03	16.14	16.11	17.5	0		
5	QPSK	1	12	16.04	16.10	16.11				
5	QPSK	1	24	16.09	16.09	16.12				
5	QPSK	12	0	16.06	16.02	16.02				
5	QPSK	12	7	16.00	15.90	15.91	17.5	0		
5	QPSK	12	13	16.04	15.99	15.98				
5	QPSK	25	0	16.04	16.11	16.05				
5	16QAM	1	0	16.08	16.11	16.14				
5	16QAM	1	12	16.08	16.08	16.02	17.5	0		
5	16QAM	1	24	16.08	16.14	16.08				
5	16QAM	12	0	15.94	16.00	15.94				
5	16QAM	12	7	15.89	15.83	15.99	17.5	0		
5	16QAM	12	13	15.94	15.98	15.91				
5	16QAM	25	0	15.90	15.93	15.89				
5	64QAM	1	0	15.91	16.02	15.97	17.5	0		
5	64QAM	1	12	15.85	16.00	15.88				
5	64QAM	1	24	16.02	16.03	16.16				
5	64QAM	12	0	15.80	15.90	15.78	17.5	0		
5	64QAM	12	7	15.90	15.89	15.78				
5	64QAM	12	13	15.85	15.82	15.76				
5	256QAM	1	0	16.00	15.97	15.97				
5	256QAM	1	12	15.96	16.03	15.99	17.5	0		
5	256QAM	1	24	15.99	15.99	15.89				
5	256QAM	12	7	15.90	15.87	15.88	17.5	0		
5	256QAM	12	13	15.80	15.80	15.81				
5	256QAM	25	0	15.80	15.90	15.82				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.08	16.11	16.11	17.5	0		
3	QPSK	1	8	16.08	16.00	16.11				
3	QPSK	1	14	16.11	16.07	16.13				
3	QPSK	8	0	15.99	16.07	15.99				
3	QPSK	8	4	15.92	15.93	15.89	17.5	0		
3	QPSK	8	7	15.91	15.97	15.96				
3	QPSK	15	0	16.02	16.10	16.01				
3	16QAM	1	0	16.00	16.17	16.14	17.5	0		
3	16QAM	1	8	16.00	16.07	15.98				
3	16QAM	1	14	16.10	16.11	16.13				
3	16QAM	8	0	15.91	15.90	15.99				
3	16QAM	8	4	15.96	15.90	15.85	17.5	0		
3	16QAM	8	7	15.89	15.94	15.89				
3	64QAM	1	0	16.03	16.04	16.06	17.5	0		
3	64QAM	1	8	15.97	16.00	15.98				
3	64QAM	1	14	16.03	15.97	16.15				
3	64QAM	8	0	15.80	15.96	15.79	17.5	0		
3	64QAM	8	4	15.90	15.81	15.82				
3	64QAM	8	7	15.89	15.84					



Band 38 Ant1 DSI3 Standalone

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)				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.23	21.28	21.18	23.1	0		
20	QPSK	1	49	21.10	21.18	21.18				
20	QPSK	1	99	21.12	21.20	21.23				
20	QPSK	50	0	21.17	21.27	21.07	23.1	0		
20	QPSK	50	24	21.01	21.03	21.02				
20	QPSK	50	50	20.98	21.00	20.98				
20	QPSK	100	0	21.16	21.19	20.97	23.1	0		
20	16QAM	1	0	21.10	21.17	21.14				
20	16QAM	1	49	21.11	21.20	21.10				
20	16QAM	1	99	21.10	21.16	21.14	23.1	0		
20	16QAM	50	0	21.14	21.15	21.11				
20	16QAM	50	24	21.10	21.01	21.10				
20	16QAM	50	50	21.12	21.02	21.12	23.1	0		
20	16QAM	100	0	21.10	21.09	20.94				
20	64QAM	1	0	21.13	21.17	20.98				
20	64QAM	1	49	21.15	21.00	21.02	23.1	0		
20	64QAM	1	99	21.18	21.08	21.13				
20	64QAM	50	0	21.01	21.01	20.82				
20	64QAM	50	24	21.01	20.94	20.85	23.1	0		
20	64QAM	50	50	21.11	20.93	20.92				
20	64QAM	100	0	21.01	20.96	20.94				
20	256QAM	1	0	18.85	19.06	18.83	20	3.1		
20	256QAM	1	49	18.83	18.92	18.79				
20	256QAM	1	99	18.80	18.86	18.82				
20	256QAM	50	0	18.64	18.82	18.72	20	3.1		
20	256QAM	50	24	18.66	18.78	18.82				
20	256QAM	50	50	18.79	18.83	18.77				
20	256QAM	100	0	18.68	18.85	18.52	20	3.1		
Channel										
Frequency (MHz)				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.09	21.21	21.07	23.1	0		
15	QPSK	1	37	21.01	21.08	21.11				
15	QPSK	1	74	21.02	21.14	21.14				
15	QPSK	36	0	21.08	21.16	20.96	23.1	0		
15	QPSK	36	20	20.91	20.95	20.90				
15	QPSK	36	39	20.88	20.93	20.92				
15	QPSK	75	0	21.10	21.05	20.88	23.1	0		
15	16QAM	1	0	20.98	21.06	21.03				
15	16QAM	1	37	20.98	21.13	20.97				
15	16QAM	1	74	20.99	21.02	21.07	23.1	0		
15	16QAM	36	0	21.01	21.04	20.97				
15	16QAM	36	20	20.93	20.88	20.91				
15	16QAM	36	39	20.81	20.93	20.93	23.1	0		
15	16QAM	75	0	20.84	21.01	20.83				
15	64QAM	1	0	20.83	21.04	20.85				
15	64QAM	1	37	20.85	20.91	20.92	23.1	0		
15	64QAM	1	74	20.89	21.01	21.00				
15	64QAM	36	0	20.72	20.90	20.68				
15	64QAM	36	20	20.79	20.85	20.71	23.1	0		
15	64QAM	36	39	20.88	20.86	20.86				
15	64QAM	75	0	20.71	20.83	20.85				
15	256QAM	1	0	18.47	18.83	18.57	20	3.1		
15	256QAM	1	37	18.53	18.83	18.79				
15	256QAM	1	74	18.54	18.83	18.86				
15	256QAM	36	0	18.49	18.85	18.57	20	3.1		
15	256QAM	36	20	18.65	18.81	18.87				
15	256QAM	36	39	18.69	18.83	18.73				
15	256QAM	75	0	18.69	18.59	18.56	20	3.1		
Channel										
Frequency (MHz)				37800	38000	38150				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.17	21.20	21.07	23.1	0		
10	QPSK	1	25	21.01	21.05	21.11				
10	QPSK	1	49	21.00	21.08	21.11				
10	QPSK	25	0	21.09	21.17	20.96	23.1	0		
10	QPSK	25	12	20.87	20.89	20.95				
10	QPSK	25	25	20.92	20.90	20.87				
10	QPSK	50	0	21.06	21.05	20.82	23.1	0		
10	16QAM	1	0	21.03	21.06	21.07				
10	16QAM	1	25	21.01	21.08	21.00				
10	16QAM	1	49	21.01	21.05	21.06	23.1	0		
10	16QAM	25	0	20.94	21.08	20.91				
10	16QAM	25	12	20.95	20.89	20.91				
10	16QAM	25	25	20.86	20.87	20.89	23.1	0		
10	16QAM	50	0	20.81	21.04	20.87				
10	64QAM	1	0	20.86	21.05	20.89				
10	64QAM	1	25	20.86	20.86	20.95	23.1	0		
10	64QAM	1	49	20.94	21.01	21.05				
10	64QAM	25	0	20.76	20.93	20.74				
10	64QAM	25	12	20.76	20.83	20.80	23.1	0		
10	64QAM	25	25	20.83	20.88	20.77				
10	64QAM	50	0	20.75	20.89	20.80				
10	256QAM	1	0	18.52	18.86	18.66	20	3.1		
10	256QAM	1	25	18.63	18.76	18.62				
10	256QAM	1	49	18.63	18.68	18.68				
10	256QAM	25	0	18.61	18.72	18.53	20	3.1		
10	256QAM	25	12	18.77	18.77	18.71				
10	256QAM	25	25	18.77	18.64	18.59				
10	256QAM	50	0	18.74	18.62	18.62	20	3.1		
Channel										
Frequency (MHz)				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.13	21.22	21.09	23.1	0		
5	QPSK	1	12	20.95	21.11	21.09				
5	QPSK	1	24	21.02	21.09	21.09				
5	QPSK	12	0	21.10	21.20	20.92	23.1	0		
5	QPSK	12	7	20.92	20.96	20.92				
5	QPSK	12	13	20.84	20.92	20.91				
5	QPSK	25	0	21.10	21.13	20.86	23.1	0		
5	16QAM	1	0	20.96	21.05	21.02				
5	16QAM	1	12	20.95	21.07	21.01				
5	16QAM	1	24	20.99	21.10	21.07	23.1	0		
5	16QAM	12	0	20.99	21.08	20.95				
5	16QAM	12	7	20.94	20.93	20.90				
5	16QAM	12	13	20.83	20.95	20.92	23.1	0		
5	16QAM	25	0	20.80	21.00	20.85				
5	64QAM	1	0	20.81	21.10	20.88				
5	64QAM	1	12	20.91	20.92	20.92	23.1	0		
5	64QAM	1	24	20.96	20.96	21.00				
5	64QAM	12	0	20.80	20.88	20.74				
5	64QAM	12	7	20.80	20.87	20.71	23.1	0		
5	64QAM	12	13	20.89	20.81	20.80				
5	64QAM	25	0	20.79	20.90	20.85				
5	256QAM	1	0	18.58	18.90	18.62	20	3.1		
5	256QAM	1	12	18.74	18.61	18.60				
5	256QAM	1	24	18.57	18.79	18.78				
5	256QAM	12	0	18.60	18.80	18.62	20	3.1		
5	256QAM	12	7	18.71	18.70	18.66				
5	256QAM	12	13	18.67	18.63	18.69				
5	256QAM	25	0	18.54	18.78	18.74	20	3.1		

Band 41 PC3 Ant1 DSI3 Standalone

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.98	22.16	22.21	22.04	21.99	23.1	0
20	QPSK	1	49	21.89	21.94	21.99	22.01	22.08		
20	QPSK	1	99	22.01	21.98	22.07	22.04	22.07		
20	QPSK	50	0	21.98	22.09	22.19	21.91	21.94	23.1	0
20	QPSK	50	24	21.90	21.86	21.91	21.86	21.81		
20	QPSK	50	50	21.88	21.79	21.81	21.80	21.87		
20	QPSK	100	0	21.90	22.05	22.11	21.87	21.90	23.1	0
20	16QAM	1	0	21.90	21.97	21.98	21.98	21.97		
20	16QAM	1	49	21.91	21.90	22.07	21.96	21.97		
20	16QAM	1	99	21.98	21.95	22.03	22.05	22.04	23.1	0
20	16QAM	50	0	21.88	21.93	22.00	21.94	21.93		
20	16QAM	50	24	22.06	22.07	22.05	22.01	22.04		
20	16QAM	50	50	22.03	22.06	22.03	22.07	22.05	23.1	0
20	16QAM	100	0	22.01	21.96	22.16	21.95	21.94		
20	64QAM	1	0	21.97	22.01	22.11	22.00	22.01		
20	64QAM	1	49	22.06	22.06	22.00	22.05	22.04	23.1	0
20	64QAM	1	99	22.09	22.02	22.09	22.00	22.19		
20	64QAM	50	0	21.84	21.86	22.02	21.90	21.85		
20	64QAM	50	24	21.87	21.85	22.01	21.90	21.85	23.1	0
20	64QAM	50	50	21.95	22.03	21.98	22.02	21.99		



Band 41 PC2 Ant1 DSI3 Standalone										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.63	23.80	23.83	23.71	23.74	24.7	0
20	QPSK	1	49	23.57	23.59	23.57	23.67	23.68		
20	QPSK	1	99	23.66	23.60	23.69	23.60	23.66	24.7	0
20	QPSK	50	0	23.71	23.78	23.82	23.68	23.65		
20	QPSK	50	24	23.52	23.60	23.68	23.75	23.59	24.7	0
20	QPSK	50	50	23.53	23.61	23.74	23.64	23.62		
20	QPSK	100	0	23.76	23.64	23.78	23.71	23.65	24.7	0
20	16QAM	1	0	23.50	23.53	23.61	23.61	23.63		
20	16QAM	1	49	23.56	23.55	23.61	23.62	23.56	24.7	0
20	16QAM	1	99	23.80	23.80	23.57	23.60	23.70		
20	16QAM	50	0	23.49	23.57	23.58	23.54	23.53	24.7	0
20	16QAM	50	24	23.68	23.71	23.69	23.58	23.70		
20	16QAM	50	50	23.58	23.62	23.61	23.65	23.66	24.7	0
20	16QAM	100	0	23.64	23.52	23.78	23.52	23.48		
20	64QAM	1	0	23.66	23.63	23.75	23.62	23.65	24.7	0
20	64QAM	1	49	23.70	23.67	23.64	23.64	23.70		
20	64QAM	1	99	23.65	23.60	23.70	23.65	23.77	24.7	0
20	64QAM	50	0	23.48	23.41	23.57	23.56	23.45		
20	64QAM	50	24	23.47	23.41	23.67	23.52	23.40	24.7	0
20	64QAM	50	50	23.59	23.67	23.56	23.57	23.56		
20	64QAM	100	0	23.45	23.47	23.56	23.63	23.55	23	1.7
20	256QAM	1	0	21.98	21.74	21.85	21.76	21.94		
20	256QAM	1	49	21.87	21.73	21.88	21.91	21.78	23	1.7
20	256QAM	1	99	21.86	21.98	21.88	21.84	21.92		
20	256QAM	50	0	21.78	21.85	21.84	21.95	21.80	23	1.7
20	256QAM	50	24	21.92	21.81	21.89	21.96	21.76		
20	256QAM	50	50	21.85	21.86	21.81	21.87	21.68	23	1.7
20	256QAM	100	0	21.81	21.70	21.87	21.79	21.85		
Channel				39725	40173	40620	41088	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.55	23.75	23.73	23.57	23.80	24.70	0
15	QPSK	1	37	23.52	23.51	23.52	23.80	23.81		
15	QPSK	1	74	23.58	23.54	23.63	23.49	23.52	24.7	0
15	QPSK	36	0	23.62	23.66	23.77	23.62	23.54		
15	QPSK	36	20	23.39	23.51	23.62	23.64	23.48	24.7	0
15	QPSK	36	39	23.44	23.47	23.63	23.50	23.52		
15	QPSK	75	0	23.64	23.52	23.65	23.56	23.59	24.7	0
15	16QAM	1	0	23.40	23.41	23.47	23.53	23.43		
15	16QAM	1	37	23.51	23.46	23.48	23.48	23.48	24.7	0
15	16QAM	1	74	23.49	23.50	23.49	23.52	23.59		
15	16QAM	36	0	23.35	23.49	23.53	23.39	23.47	24.7	0
15	16QAM	36	20	23.56	23.58	23.58	23.44	23.56		
15	16QAM	36	39	23.51	23.48	23.54	23.56	23.55	24.7	0
15	16QAM	75	0	23.56	23.46	23.65	23.39	23.34		
15	64QAM	1	0	23.47	23.49	23.67	23.47	23.58	24.7	0
15	64QAM	1	37	23.55	23.54	23.52	23.57	23.64		
15	64QAM	1	74	23.52	23.45	23.59	23.54	23.64	24.7	0
15	64QAM	36	0	23.43	23.29	23.49	23.42	23.30		
15	64QAM	36	20	23.34	23.33	23.56	23.43	23.27	24.7	0
15	64QAM	36	39	23.50	23.58	23.49	23.45	23.45		
15	64QAM	75	0	23.40	23.40	23.42	23.56	23.40	23	1.7
15	256QAM	1	0	21.83	21.56	21.78	21.70	21.87		
15	256QAM	1	37	21.69	21.57	21.77	21.89	21.67	23	1.7
15	256QAM	1	74	21.72	21.80	21.53	21.76	21.82		
15	256QAM	36	0	21.70	21.74	21.72	21.85	21.67	23	1.7
15	256QAM	36	20	21.76	21.67	21.76	21.89	21.70		
15	256QAM	36	39	21.71	21.81	21.64	21.76	21.54	23	1.7
15	256QAM	75	0	21.63	21.85	21.71	21.69	21.76		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.53	23.66	23.71	23.59	23.68	24.70	0
10	QPSK	1	25	23.48	23.52	23.47	23.62	23.61		
10	QPSK	1	49	23.53	23.54	23.58	23.45	23.59	24.7	0
10	QPSK	25	0	23.62	23.67	23.67	23.80	23.51		
10	QPSK	25	12	23.46	23.47	23.56	23.63	23.54	24.7	0
10	QPSK	25	25	23.40	23.56	23.63	23.57	23.47		
10	QPSK	50	0	23.68	23.54	23.71	23.62	23.55	24.7	0
10	16QAM	1	0	23.38	23.39	23.53	23.51	23.40		
10	16QAM	1	25	23.42	23.43	23.50	23.51	23.44	24.7	0
10	16QAM	1	49	23.53	23.51	23.44	23.50	23.63		
10	16QAM	25	0	23.41	23.43	23.47	23.46	23.42	24.7	0
10	16QAM	25	12	23.57	23.61	23.58	23.53	23.63		
10	16QAM	25	25	23.44	23.56	23.50	23.56	23.53	24.7	0
10	16QAM	50	0	23.56	23.42	23.67	23.39	23.41		
10	64QAM	1	0	23.47	23.54	23.70	23.56	23.58	24.7	0
10	64QAM	1	25	23.60	23.61	23.58	23.54	23.62		
10	64QAM	1	49	23.60	23.54	23.60	23.59	23.64	24.7	0
10	64QAM	25	0	23.37	23.27	23.43	23.48	23.38		
10	64QAM	25	12	23.37	23.34	23.60	23.40	23.26	24.7	0
10	64QAM	25	25	23.45	23.57	23.47	23.48	23.44		
10	64QAM	50	0	23.31	23.35	23.50	23.51	23.47	23	1.7
10	256QAM	1	0	21.91	21.63	21.79	21.62	21.89		
10	256QAM	1	25	21.81	21.57	21.85	21.79	21.70	23	1.7
10	256QAM	1	49	21.69	21.91	21.59	21.68	21.83		
10	256QAM	25	0	21.68	21.71	21.71	21.78	21.68	23	1.7
10	256QAM	25	12	21.82	21.74	21.83	21.85	21.69		
10	256QAM	25	25	21.81	21.72	21.64	21.84	21.55	23	1.7
10	256QAM	50	0	21.85	21.63	21.74	21.75	21.79		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.50	23.72	23.73	23.58	23.69	24.70	0
5	QPSK	1	12	23.45	23.48	23.50	23.55	23.63		
5	QPSK	1	24	23.56	23.46	23.60	23.54	23.53	24.7	0
5	QPSK	12	0	23.64	23.65	23.70	23.59	23.55		
5	QPSK	12	7	23.43	23.46	23.62	23.61	23.46	24.7	0
5	QPSK	12	13	23.40	23.54	23.65	23.56	23.55		
5	QPSK	25	0	23.66	23.53	23.70	23.62	23.59	24.7	0
5	16QAM	1	0	23.42	23.46	23.55	23.56	23.42		
5	16QAM	1	12	23.49	23.43	23.54	23.53	23.50	24.7	0
5	16QAM	1	24	23.46	23.47	23.47	23.48	23.62		
5	16QAM	12	0	23.38	23.47	23.46	23.41	23.42	24.7	0
5	16QAM	12	7	23.54	23.65	23.80	23.43	23.64		
5	16QAM	12	13	23.48	23.53	23.47	23.58	23.53	24.7	0
5	16QAM	25	0	23.49	23.42	23.66	23.46	23.39		
5	64QAM	1	0	23.50	23.55	23.65	23.49	23.63	24.7	0
5	64QAM	1	12	23.58	23.56	23.49	23.55	23.59		
5	64QAM	1	24	23.59	23.47	23.80	23.53	23.67	24.7	0
5	64QAM	12	0	23.42	23.32	23.42	23.49	23.37		
5	64QAM	12	7	23.39	23.30	23.53	23.41	23.27	24.7	0
5	64QAM	12	13	23.45	23.60	23.44	23.44	23.49		
5	64QAM	25	0	23.34	23.39	23.48	23.51	23.46	23	1.7
5	256QAM	1	0	21.87	21.61	21.79	21.58	21.89		
5	256QAM	1	12	21.81	21.68	21.84	21.79	21.70	23	1.7
5	256QAM	1	24	21.78	21.89	21.60	21.72			



Band 38 Ant1 DSI3 Simultaneous									
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	17.47	17.73	17.41	19.1	0	
20	QPSK	1	49	17.47	17.51	17.44			
20	QPSK	1	99	17.62	17.59	17.61			
20	QPSK	50	0	17.42	17.67	17.57	19.1	0	
20	QPSK	50	24	17.40	17.46	17.31			
20	QPSK	50	50	17.42	17.34	17.39			
20	QPSK	100	0	17.32	17.60	17.50	19.1	0	
20	16QAM	1	0	17.58	17.44	17.52			
20	16QAM	1	49	17.50	17.48	17.52			
20	16QAM	1	99	17.55	17.59	17.51	19.1	0	
20	16QAM	50	0	17.47	17.45	17.37			
20	16QAM	50	24	17.37	17.37	17.45			
20	16QAM	50	50	17.43	17.45	17.42	19.1	0	
20	16QAM	100	0	17.36	17.46	17.37			
20	64QAM	1	0	17.30	17.44	17.46			
20	64QAM	1	49	17.37	17.40	17.44	19.1	0	
20	64QAM	1	99	17.50	17.35	17.36			
20	64QAM	50	0	17.24	17.21	17.23			
20	64QAM	50	24	17.37	17.41	17.33	19.1	0	
20	64QAM	50	50	17.35	17.44	17.28			
20	64QAM	100	0	17.30	17.28	17.22			
20	256QAM	1	0	17.54	17.49	17.45	19.1	0	
20	256QAM	1	49	17.43	17.40	17.31			
20	256QAM	1	99	17.44	17.43	17.55			
20	256QAM	50	0	17.36	17.33	17.32	19.1	0	
20	256QAM	50	24	17.36	17.42	17.30			
20	256QAM	50	50	17.23	17.35	17.29			
20	256QAM	100	0	17.32	17.25	17.23			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	17.43	17.66	17.30	19.1	0	
15	QPSK	1	37	17.35	17.39	17.31			
15	QPSK	1	74	17.56	17.51	17.54			
15	QPSK	36	0	17.26	17.34	17.52	19.1	0	
15	QPSK	36	20	17.28	17.33	17.17			
15	QPSK	36	39	17.27	17.25	17.33			
15	QPSK	75	0	17.28	17.40	17.40	19.1	0	
15	16QAM	1	0	17.54	17.29	17.47			
15	16QAM	1	37	17.41	17.45	17.44			
15	16QAM	1	74	17.39	17.53	17.44	19.1	0	
15	16QAM	36	0	17.37	17.30	17.32			
15	16QAM	36	20	17.26	17.31	17.36			
15	16QAM	36	39	17.29	17.35	17.32	19.1	0	
15	16QAM	75	0	17.30	17.39	17.20			
15	64QAM	1	0	17.17	17.36	17.31			
15	64QAM	1	37	17.32	17.27	17.27	19.1	0	
15	64QAM	1	74	17.39	17.30	17.28			
15	64QAM	36	0	17.16	17.16	17.27			
15	64QAM	36	20	17.27	17.33	17.25	19.1	0	
15	64QAM	36	39	17.31	17.33	17.23			
15	64QAM	75	0	17.18	17.20	17.11			
15	256QAM	1	0	17.41	17.33	17.32	19.1	0	
15	256QAM	1	37	17.28	17.30	17.24			
15	256QAM	1	74	17.37	17.27	17.42			
15	256QAM	36	0	17.24	17.17	17.24	19.1	0	
15	256QAM	36	20	17.20	17.34	17.19			
15	256QAM	36	39	17.27	17.27	17.17			
15	256QAM	75	0	17.18	17.19	17.12			
Channel				37800	38000	38175			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	17.38	17.58	17.37	19.1	0	
10	QPSK	1	25	17.41	17.40	17.36			
10	QPSK	1	49	17.52	17.50	17.50			
10	QPSK	25	0	17.30	17.32	17.44	19.1	0	
10	QPSK	25	12	17.29	17.33	17.23			
10	QPSK	25	25	17.32	17.30	17.32			
10	QPSK	50	0	17.25	17.39	17.38	19.1	0	
10	16QAM	1	0	17.46	17.32	17.36			
10	16QAM	1	25	17.46	17.35	17.46			
10	16QAM	1	49	17.40	17.47	17.41	19.1	0	
10	16QAM	25	0	17.36	17.36	17.26			
10	16QAM	25	12	17.22	17.20	17.29			
10	16QAM	25	25	17.35	17.29	17.26	19.1	0	
10	16QAM	50	0	17.29	17.38	17.31			
10	64QAM	1	0	17.14	17.38	17.41			
10	64QAM	1	25	17.25	17.31	17.33	19.1	0	
10	64QAM	1	49	17.42	17.24	17.23			
10	64QAM	25	0	17.15	17.37	17.39			
10	64QAM	25	12	17.33	17.25	17.29	19.1	0	
10	64QAM	25	25	17.24	17.34	17.24			
10	64QAM	50	0	17.19	17.16	17.11			
10	256QAM	1	0	17.45	17.45	17.35	19.1	0	
10	256QAM	1	25	17.35	17.34	17.15			
10	256QAM	1	49	17.32	17.26	17.38			
10	256QAM	25	0	17.32	17.19	17.24	19.1	0	
10	256QAM	25	12	17.31	17.25	17.24			
10	256QAM	25	25	17.12	17.19	17.14			
10	256QAM	50	0	17.17	17.14	17.15			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	17.33	17.57	17.36	19.1	0	
5	QPSK	1	12	17.33	17.37	17.34			
5	QPSK	1	24	17.57	17.54	17.44			
5	QPSK	12	0	17.31	17.42	17.46	19.1	0	
5	QPSK	12	7	17.31	17.38	17.24			
5	QPSK	12	13	17.32	17.28	17.31			
5	QPSK	25	0	17.23	17.35	17.46	19.1	0	
5	16QAM	1	0	17.55	17.41	17.49			
5	16QAM	1	12	17.44	17.32	17.49			
5	16QAM	1	24	17.52	17.43	17.45	19.1	0	
5	16QAM	12	0	17.37	17.39	17.31			
5	16QAM	12	7	17.25	17.25	17.32			
5	16QAM	12	13	17.28	17.41	17.35	19.1	0	
5	16QAM	25	0	17.30	17.33	17.29			
5	64QAM	1	0	17.21	17.28	17.37			
5	64QAM	1	12	17.25	17.26	17.32	19.1	0	
5	64QAM	1	24	17.46	17.20	17.25			
5	64QAM	12	0	17.19	17.10	17.38			
5	64QAM	12	7	17.24	17.27	17.20	19.1	0	
5	64QAM	12	13	17.20	17.33	17.15			
5	64QAM	25	0	17.24	17.15	17.15			
5	256QAM	1	0	17.46	17.40	17.35	19.1	0	
5	256QAM	1	12	17.39	17.32	17.19			
5	256QAM	1	24	17.35	17.38	17.39			
5	256QAM	12	0	17.29	17.17	17.27	19.1	0	
5	256QAM	12	7	17.23	17.31	17.27			
5	256QAM	12	13	17.14	17.22	17.22			
5	256QAM	25	0	17.23	17.20	17.29			

Band 41 Ant1 DSI3 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.80	17.73	17.96	17.84	17.95	19.1	0
20	QPSK	1	49	17.85	17.76	17.89	17.84	17.85		
20	QPSK	1	99	17.83	17.90	17.88	17.85	17.90		
20	QPSK	50	0	17.82	17.88	17.91	17.80	17.88	19.1	0
20	QPSK	50	24	17.74	17.65	17.75	17.75	17.77		
20	QPSK	50	50	17.70	17.71	17.70	17.77	17.77		
20	QPSK	100	0	17.75	17.74	17.89	17.67	17.73	19.1	0
20	16QAM	1	0	17.78	17.84	17.85	17.83	17.89		
20	16QAM	1	49	17.82	17.79	17.92	17.82	17.85		
20	16QAM	1	99	17.91	17.87	17.91	17.86	17.89	19.1	0
20	16QAM	50	0	17.71	17.69	17.82	17.80	17.74		
20	16QAM	50	24	17.70	17.76	17.69	17.70	17.74		
20	16QAM	50	50	17.78	17.69	17.80	17.74	17.73	19.1	0
20	16QAM	100	0	17.70	17.71	17.71	17.65	17.65		
20	64QAM	1	0	17.71	17.72	17.79	17.70	17.72		
20	64QAM	1	49	17.69	17.67	17.75	17.75	17.77	19.1	0
20	64QAM	1	99	17.71	17.73	17.84	17.84	17.88		
20	64QAM	50	0	17.57	17.55	17.61	17.57	17.58		
20	64QAM	50	24	17.66	17.60	17.56	17.60	17.60	19.1	0
20	64QAM	50	50	17.68	17.58	17.66	17.5			



Band 41 HPUE Ant1 DSI3 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.71	19.81	19.87	19.75	19.62	20.7	0
20	QPSK	1	49	19.76	19.80	19.75	19.77	19.63		
20	QPSK	1	99	19.80	19.60	19.69	19.71	19.85	20.7	0
20	QPSK	50	0	19.63	19.61	19.77	19.54	19.73		
20	QPSK	50	24	19.66	19.66	19.74	19.70	19.66	20.7	0
20	QPSK	50	50	19.71	19.67	19.73	19.72	19.67		
20	QPSK	100	0	19.54	19.64	19.73	19.53	19.58	20.7	0
20	16QAM	1	0	19.83	19.81	19.79	19.64	19.85		
20	16QAM	1	49	19.74	19.77	19.73	19.83	19.84	20.7	0
20	16QAM	1	99	19.78	19.82	19.86	19.62	19.58		
20	16QAM	50	0	19.76	19.72	19.72	19.86	19.73	20.7	0
20	16QAM	50	24	19.72	19.79	19.70	19.72	19.76		
20	16QAM	50	50	19.75	19.76	19.72	19.76	19.73	20.7	0
20	16QAM	100	0	19.69	19.64	19.73	19.79	19.65		
20	64QAM	1	0	19.70	19.62	19.70	19.82	19.68	20.7	0
20	64QAM	1	49	19.63	19.65	19.69	19.73	19.75		
20	64QAM	1	99	19.76	19.73	19.71	19.78	19.69	20.7	0
20	64QAM	50	0	19.61	19.58	19.65	19.72	19.64		
20	64QAM	50	24	19.60	19.62	19.61	19.55	19.62	20.7	0
20	64QAM	50	50	19.68	19.61	19.59	19.57	19.57		
20	64QAM	100	0	19.63	19.66	19.63	19.60	19.55	20.7	0
20	256QAM	1	0	19.76	19.80	19.82	19.73	19.69		
20	256QAM	1	49	19.76	19.69	19.69	19.68	19.76	20.7	0
20	256QAM	1	99	19.75	19.81	19.79	19.82	19.74		
20	256QAM	50	0	19.60	19.62	19.62	19.75	19.74	20.7	0
20	256QAM	50	24	19.68	19.62	19.62	19.64	19.69		
20	256QAM	50	50	19.61	19.62	19.60	19.66	19.61	20.7	0
20	256QAM	100	0	19.66	19.58	19.62	19.74	19.58		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.66	19.74	19.77	19.66	19.52	20.70	0
15	QPSK	1	37	19.65	19.69	19.66	19.72	19.51		
15	QPSK	1	74	19.73	19.52	19.63	19.56	19.71	20.7	0
15	QPSK	36	0	19.57	19.52	19.70	19.39	19.65		
15	QPSK	36	20	19.60	19.53	19.62	19.57	19.57	20.7	0
15	QPSK	36	39	19.65	19.53	19.62	19.60	19.58		
15	QPSK	75	0	19.45	19.55	19.61	19.45	19.53	20.7	0
15	16QAM	1	0	19.69	19.75	19.73	19.54	19.71		
15	16QAM	1	37	19.68	19.66	19.67	19.77	19.70	20.7	0
15	16QAM	1	74	19.67	19.71	19.79	19.55	19.52		
15	16QAM	36	0	19.73	19.60	19.58	19.74	19.67	20.7	0
15	16QAM	36	20	19.57	19.68	19.56	19.65	19.69		
15	16QAM	36	39	19.69	19.65	19.67	19.67	19.63	20.7	0
15	16QAM	75	0	19.62	19.57	19.67	19.71	19.56		
15	64QAM	1	0	19.62	19.50	19.65	19.70	19.62	20.7	0
15	64QAM	1	37	19.50	19.59	19.56	19.65	19.68		
15	64QAM	1	74	19.61	19.66	19.59	19.66	19.63	20.7	0
15	64QAM	36	0	19.50	19.52	19.57	19.61	19.57		
15	64QAM	36	20	19.53	19.55	19.51	19.45	19.51	20.7	0
15	64QAM	36	39	19.62	19.46	19.50	19.49	19.49		
15	64QAM	75	0	19.56	19.52	19.51	19.46	19.49	20.7	0
15	256QAM	1	0	19.65	19.67	19.67	19.59	19.56		
15	256QAM	1	37	19.66	19.62	19.57	19.55	19.64	20.7	0
15	256QAM	1	74	19.69	19.71	19.56	19.74	19.64		
15	256QAM	36	0	19.46	19.48	19.48	19.60	19.66	20.7	0
15	256QAM	36	20	19.60	19.55	19.49	19.52	19.63		
15	256QAM	36	39	19.48	19.50	19.52	19.55	19.51	20.7	0
15	256QAM	75	0	19.52	19.49	19.51	19.66	19.50		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.65	19.72	19.73	19.67	19.48	20.70	0
10	QPSK	1	25	19.62	19.67	19.69	19.64	19.55		
10	QPSK	1	49	19.66	19.55	19.54	19.62	19.70	20.7	0
10	QPSK	25	0	19.52	19.49	19.65	19.41	19.67		
10	QPSK	25	12	19.59	19.52	19.69	19.60	19.55	20.7	0
10	QPSK	25	25	19.65	19.60	19.65	19.62	19.58		
10	QPSK	50	0	19.46	19.54	19.68	19.47	19.45	20.7	0
10	16QAM	1	0	19.72	19.72	19.65	19.51	19.76		
10	16QAM	1	25	19.59	19.65	19.63	19.72	19.71	20.7	0
10	16QAM	1	49	19.70	19.68	19.72	19.50	19.51		
10	16QAM	25	0	19.65	19.62	19.57	19.79	19.62	20.7	0
10	16QAM	25	12	19.66	19.74	19.60	19.65	19.66		
10	16QAM	25	25	19.67	19.67	19.57	19.68	19.63	20.7	0
10	16QAM	50	0	19.59	19.50	19.61	19.69	19.56		
10	64QAM	1	0	19.58	19.55	19.63	19.75	19.63	20.7	0
10	64QAM	1	25	19.58	19.56	19.58	19.67	19.65		
10	64QAM	1	49	19.62	19.59	19.57	19.72	19.63	20.7	0
10	64QAM	25	0	19.50	19.50	19.54	19.59	19.50		
10	64QAM	25	12	19.49	19.56	19.51	19.50	19.47	20.7	0
10	64QAM	25	25	19.60	19.51	19.47	19.45	19.51		
10	64QAM	50	0	19.52	19.54	19.56	19.51	19.48	20.7	0
10	256QAM	1	0	19.62	19.67	19.71	19.66	19.55		
10	256QAM	1	25	19.67	19.59	19.63	19.56	19.69	20.7	0
10	256QAM	1	49	19.65	19.71	19.71	19.76	19.62		
10	256QAM	25	0	19.53	19.56	19.48	19.69	19.61	20.7	0
10	256QAM	25	12	19.58	19.54	19.55	19.53	19.57		
10	256QAM	25	25	19.48	19.49	19.51	19.56	19.48	20.7	0
10	256QAM	50	0	19.59	19.47	19.53	19.66	19.47		
Channel				39675	40146	40620	41093	41566		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	19.64	19.70	19.81	19.63	19.55	20.70	0
5	QPSK	1	12	19.64	19.71	19.65	19.67	19.48		
5	QPSK	1	24	19.73	19.49	19.62	19.56	19.75	20.7	0
5	QPSK	12	0	19.52	19.48	19.70	19.47	19.61		
5	QPSK	12	7	19.53	19.52	19.67	19.62	19.57	20.7	0
5	QPSK	12	13	19.65	19.54	19.61	19.63	19.54		
5	QPSK	25	0	19.46	19.53	19.61	19.42	19.47	20.7	0
5	16QAM	1	0	19.71	19.69	19.65	19.50	19.76		
5	16QAM	1	12	19.64	19.63	19.60	19.69	19.75	20.7	0
5	16QAM	1	24	19.69	19.70	19.79	19.53	19.47		
5	16QAM	12	0	19.63	19.63	19.62	19.73	19.67	20.7	0
5	16QAM	12	7	19.66	19.65	19.63	19.50	19.61		
5	16QAM	12	13	19.65	19.62	19.60	19.64	19.61	20.7	0
5	16QAM	25	0	19.63	19.57	19.67	19.65	19.51		
5	64QAM	1	0	19.63	19.54	19.62	19.69	19.57	20.7	0
5	64QAM	1	12	19.48	19.55	19.63	19.62	19.70		
5	64QAM	1	24	19.69	19.63	19.58	19.73	19.54	20.7	0
5	64QAM	12	0	19.50	19.45	19.54	19.66	19.55		
5	64QAM	12	7	19.50	19.48	19.53	19.44	19.52	20.7	0
5	64QAM	12	13	19.62	19.48	19.53	19.49	19.52		
5	64QAM	25	0	19.48	19.51	19.55	19.48	19.44	20.7	0
5	256QAM	1	0	19.69	19.70	19.69	19.62	19.63		
5	256QAM	1	12	19.69	19.63	19.55	19.59	19.66	20.7	0



Band 48 Ant2 DSI3 Simultaneous

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	14.83	14.91	14.92	14.90	16.5	0
20	QPSK	1	49	14.90	14.64	14.90	14.60		
20	QPSK	1	99	14.68	14.66	14.90	14.71		
20	QPSK	50	0	14.73	14.74	14.90	14.85		
20	QPSK	50	24	14.70	14.84	14.89	14.82	16.5	0
20	QPSK	50	50	14.90	14.85	14.78	14.91		
20	QPSK	100	0	14.70	14.89	14.90	14.85		
20	QPSK	100	0	14.70	14.89	14.90	14.85		
20	16QAM	1	0	14.74	14.82	14.76	14.85	16.5	0
20	16QAM	1	49	14.91	14.91	14.90	14.82		
20	16QAM	1	99	14.67	14.90	14.88	14.91		
20	16QAM	50	0	14.75	14.77	14.82	14.90		
20	16QAM	50	24	14.82	14.88	14.70	14.74	16.5	0
20	16QAM	50	50	14.83	14.79	14.91	14.79		
20	16QAM	100	0	14.83	14.79	14.76	14.69		
20	16QAM	100	0	14.84	14.67	14.80	14.68		
20	64QAM	1	49	14.60	14.60	14.71	14.71	16.5	0
20	64QAM	1	99	14.82	14.75	14.80	14.73		
20	64QAM	50	0	14.51	14.66	14.54	14.54		
20	64QAM	50	24	14.75	14.89	14.83	14.62		
20	64QAM	50	50	14.88	14.78	14.89	14.86	16.5	0
20	64QAM	100	0	14.62	14.67	14.69	14.60		
20	256QAM	1	0	14.72	14.68	14.76	14.72		
20	256QAM	1	49	14.90	14.86	14.89	14.79		
20	256QAM	1	99	14.75	14.79	14.85	14.58	16.5	0
20	256QAM	50	0	14.59	14.74	14.86	14.58		
20	256QAM	50	24	14.80	14.80	14.91	14.58		
20	256QAM	50	50	14.91	14.87	14.88	14.72		
20	256QAM	100	0	14.84	14.88	14.87	14.90		
Channel				55315	55820	56180	56685		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	14.67	14.83	14.88	14.82	16.5	0
15	QPSK	1	37	14.80	14.61	14.79	14.69		
15	QPSK	1	74	14.64	14.77	14.84	14.65		
15	QPSK	36	0	14.60	14.64	14.83	14.78		
15	QPSK	36	20	14.60	14.75	14.73	14.72	16.5	0
15	QPSK	36	39	14.82	14.79	14.61	14.86		
15	QPSK	75	0	14.66	14.84	14.82	14.70		
15	16QAM	1	0	14.70	14.73	14.59	14.61		
15	16QAM	1	37	14.76	14.77	14.76	14.68	16.5	0
15	16QAM	1	74	14.52	14.79	14.81	14.86		
15	16QAM	36	0	14.66	14.62	14.76	14.78		
15	16QAM	36	20	14.66	14.84	14.61	14.60		
15	16QAM	36	39	14.77	14.65	14.82	14.70	16.5	0
15	16QAM	75	0	14.70	14.65	14.69	14.62		
15	64QAM	1	0	14.73	14.59	14.72	14.65		
15	64QAM	1	37	14.50	14.55	14.61	14.68		
15	64QAM	1	74	14.67	14.61	14.73	14.64	16.5	0
15	64QAM	36	0	14.77	14.59	14.70	14.51		
15	64QAM	36	20	14.71	14.84	14.75	14.66		
15	64QAM	36	39	14.74	14.74	14.74	14.70		
15	64QAM	75	0	14.58	14.54	14.60	14.51	16.5	0
15	256QAM	1	0	14.57	14.53	14.61	14.68		
15	256QAM	1	37	14.75	14.77	14.82	14.68		
15	256QAM	1	74	14.60	14.70	14.74	14.75		
15	256QAM	36	0	14.76	14.64	14.80	14.55	16.5	0
15	256QAM	36	20	14.78	14.68	14.74	14.76		
15	256QAM	36	39	14.87	14.74	14.78	14.64		
15	256QAM	75	0	14.78	14.80	14.82	14.74		
Channel				55290	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	14.72	14.88	14.80	14.81	16.5	0
10	QPSK	1	25	14.78	14.66	14.83	14.67		
10	QPSK	1	49	14.60	14.60	14.78	14.65		
10	QPSK	25	0	14.63	14.59	14.78	14.77		
10	QPSK	25	12	14.56	14.79	14.73	14.69	16.5	0
10	QPSK	25	25	14.78	14.72	14.71	14.78		
10	QPSK	50	0	14.56	14.73	14.80	14.77		
10	16QAM	1	0	14.62	14.72	14.65	14.60		
10	16QAM	1	25	14.88	14.76	14.77	14.76	16.5	0
10	16QAM	1	49	14.50	14.61	14.73	14.85		
10	16QAM	25	0	14.90	14.72	14.75	14.74		
10	16QAM	25	12	14.72	14.83	14.59	14.62		
10	16QAM	25	25	14.73	14.64	14.82	14.72	16.5	0
10	16QAM	50	0	14.79	14.82	14.61	14.66		
10	64QAM	1	0	14.70	14.61	14.75	14.56		
10	64QAM	1	25	14.56	14.66	14.65	14.66		
10	64QAM	1	49	14.73	14.59	14.76	14.58	16.5	0
10	64QAM	25	0	14.72	14.50	14.77	14.66		
10	64QAM	25	12	14.59	14.84	14.66	14.58		
10	64QAM	25	25	14.80	14.70	14.77	14.80		
10	64QAM	50	0	14.58	14.64	14.64	14.68	16.5	0
10	256QAM	1	0	14.60	14.52	14.68	14.63		
10	256QAM	1	25	14.86	14.76	14.74	14.75		
10	256QAM	1	49	14.63	14.65	14.74	14.75		
10	256QAM	25	0	14.68	14.68	14.72	14.53	16.5	0
10	256QAM	25	12	14.51	14.65	14.77	14.54		
10	256QAM	25	25	14.78	14.84	14.83	14.67		
10	256QAM	50	0	14.81	14.77	14.82	14.80		
Channel				3552.5	3607	3643	3697.5		
5	QPSK	1	0	14.80	14.82	14.83	14.86	16.5	0
5	QPSK	1	12	14.87	14.55	14.82	14.56		
5	QPSK	1	24	14.52	14.57	14.74	14.57		
5	QPSK	12	0	14.61	14.60	14.80	14.72		
5	QPSK	12	7	14.66	14.70	14.72	14.71	16.5	0
5	QPSK	12	13	14.80	14.73	14.66	14.87		
5	QPSK	25	0	14.58	14.85	14.78	14.75		
5	16QAM	1	0	14.59	14.76	14.59	14.56		
5	16QAM	1	12	14.86	14.76	14.73	14.77	16.5	0
5	16QAM	1	24	14.55	14.86	14.75	14.77		
5	16QAM	12	0	14.61	14.72	14.74	14.80		
5	16QAM	12	7	14.66	14.76	14.64	14.69		
5	16QAM	25	0	14.79	14.68	14.84	14.83	16.5	0
5	16QAM	25	0	14.68	14.72	14.72	14.62		
5	64QAM	1	0	14.74	14.51	14.71	14.55		
5	64QAM	1	12	14.57	14.74	14.65	14.62		
5	64QAM	1	24	14.70	14.59	14.73	14.69	16.5	0
5	64QAM	12	0	14.77	14.51	14.66	14.73		
5	64QAM	12	7	14.71	14.77	14.79	14.58		
5	64QAM	12	13	14.84	14.66	14.81	14.81		
5	64QAM	25	0	14.51	14.63	14.55	14.52	16.5	0
5	256QAM	1	0	14.58	14.57	14.73	14.65		
5	256QAM	1	12	14.75	14.80	14.82	14.68		
5	256QAM	1	24	14.61	14.67	14.79	14.72		
5	256QAM	12	0	14.50	14.66	14.73	14.55	16.5	0
5	256QAM	12	7	14.78	14.67	14.75	14.52		
5	256QAM	12	13	14.85	14.82	14.82	14.56		
5	256QAM	25	0	14.72	14.76	14.78	14.78		



Ant0_Simultaneous DS16									
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	861	810		512	861	810		
Frequency (MHz)	1850.2	1880	1909.8	29.40	19.67	19.69	19.71	20.40	
GSM 1 Tx slot	28.67	28.69	28.71	29.40	19.67	19.69	19.71	20.40	
GPRS 1 Tx slot	28.67	28.69	28.71	29.40	19.67	19.69	19.71	20.40	
GPRS 2 Tx slots	25.44	25.58	25.34	28.40	19.44	19.58	19.34	20.40	
GPRS 3 Tx slots	24.06	24.11	23.85	24.70	19.80	19.85	19.59	20.44	
GPRS 4 Tx slots	22.19	22.40	22.32	23.40	19.19	19.40	19.32	20.40	
EDGE 1 Tx slot	25.18	25.27	25.16	28.30	18.18	18.27	18.16	17.50	
EDGE 2 Tx slots	23.60	23.78	23.67	24.50	17.60	17.78	17.67	18.50	
EDGE 3 Tx slots	22.48	22.66	22.56	23.50	18.22	18.40	18.30	19.24	
EDGE 4 Tx slots	20.24	20.35	20.31	21.00	17.24	17.35	17.31	18.00	

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	Ant0_Simultaneous DS16				
	5982	8400	8538		1512	1413	1513		4182	4162	4233		
Rx Channel	9582	8500	9538	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	828.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	18.26	18.28	18.17	19.40	18.81	18.87	18.69	20.20	24.11	24.21	24.27	25.00
3GPP Rel 99	RMG 12.2Kbps	18.33	18.36	18.24	19.40	18.93	18.99	18.76	20.20	24.17	24.35	24.32	25.00
3GPP Rel 6	HSDPA Subtest-1	17.32	17.48	17.32	18.40	17.87	17.87	17.59	19.20	23.17	23.25	23.31	24.00
3GPP Rel 6	HSDPA Subtest-2	17.32	17.46	17.37	18.40	17.96	17.75	17.74	19.20	23.15	23.23	23.33	24.00
3GPP Rel 6	HSDPA Subtest-3	16.90	16.73	16.63	17.90	17.22	17.50	17.41	18.70	22.65	22.74	22.80	23.50
3GPP Rel 6	HSDPA Subtest-4	16.66	16.62	16.61	17.90	17.48	17.52	17.26	18.70	22.65	22.77	22.78	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.35	17.38	17.15	18.40	18.00	18.02	17.73	19.20	23.04	23.19	23.32	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.46	17.52	17.42	18.40	18.18	18.02	17.94	19.20	23.16	23.07	23.15	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.56	16.84	16.89	17.90	17.44	17.46	17.32	18.70	22.44	22.68	22.64	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.74	17.11	16.87	17.90	17.38	17.46	17.25	18.70	22.49	22.61	22.74	23.50
3GPP Rel 6	HSUPA Subtest-1	17.50	17.30	17.14	18.40	17.82	18.11	17.80	19.20	23.51	23.55	23.61	24.00
3GPP Rel 6	HSUPA Subtest-2	15.33	15.40	15.26	16.40	15.70	16.11	15.69	17.20	21.51	21.56	21.63	22.00
3GPP Rel 6	HSUPA Subtest-3	16.53	16.32	16.23	17.40	16.97	17.23	16.91	18.20	22.49	22.55	22.56	23.00
3GPP Rel 6	HSUPA Subtest-4	15.30	15.38	15.05	16.40	15.81	16.13	15.79	17.20	21.47	21.57	21.63	22.00
3GPP Rel 6	HSUPA Subtest-5	17.35	17.22	17.05	18.40	18.08	17.97	17.73	19.20	23.50	23.50	23.60	24.00



Band 2 Ant0_DS16 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Hsp / Freq	Power Ch / Freq	Turn-up Time (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.43	20.43	20.19	21.5	0
20	QPSK	1	49	20.32	20.34	20.29		
20	QPSK	1	99	20.33	20.23	20.27		
20	QPSK	50	0	20.38	20.43	20.42		
20	QPSK	50	24	20.33	20.33	20.33		
20	QPSK	50	50	20.12	20.38	20.20		
20	QPSK	100	0	20.15	20.43	20.38		
20	QPSK	100	24	20.27	20.33	20.33		
20	QPSK	1	49	20.14	20.23	20.14	21.5	0
20	QPSK	1	99	20.20	20.10	20.07		
20	QPSK	50	0	20.12	20.38	20.20		
20	QPSK	50	24	20.17	20.30	20.33		
20	QPSK	100	0	20.32	20.26	20.26		
20	QPSK	100	24	20.22	20.37	20.30		
20	QPSK	1	0	20.29	20.42	20.26	21.5	0
20	QPSK	1	49	20.15	20.23	20.27		
20	QPSK	50	0	20.34	20.26	20.34		
20	QPSK	50	24	20.30	20.40	20.32		
20	QPSK	100	0	20.31	20.30	20.30		
20	QPSK	100	24	20.37	20.41	20.29		
20	QPSK	1	49	19.52	19.44	19.35	20	1.5
20	QPSK	1	99	19.39	19.50	19.34		
20	QPSK	50	0	19.52	19.38	19.38		
20	QPSK	50	24	19.36	19.58	19.51		
20	QPSK	100	0	19.31	19.44	19.56		
20	QPSK	100	24	19.35	19.43	19.35		
Channel								
Frequency (MHz)								
15	QPSK	1	0	20.28	20.20	20.10	21.5	0
15	QPSK	1	49	20.28	20.07	20.16		
15	QPSK	1	99	20.26	20.07	20.16		
15	QPSK	36	0	20.29	20.32	20.28		
15	QPSK	36	24	20.24	20.32	20.28		
15	QPSK	36	36	20.30	20.23	20.15		
15	QPSK	75	0	20.31	20.31	20.26		
15	QPSK	75	24	20.21	20.26	20.25		
15	QPSK	1	37	20.07	20.10	20.04	21.5	0
15	QPSK	1	74	20.17	20.08	20.07		
15	QPSK	36	0	20.25	20.09	20.17		
15	QPSK	36	24	20.19	20.17	20.23		
15	QPSK	75	0	20.11	20.27	20.18		
15	QPSK	75	24	20.22	20.34	20.14		
15	QPSK	1	37	20.05	20.11	20.11	21.5	0
15	QPSK	1	74	20.05	20.15	20.19		
15	QPSK	36	0	20.22	20.15	20.25		
15	QPSK	36	24	20.12	20.21	20.23		
15	QPSK	75	0	20.31	20.31	20.17		
15	QPSK	75	24	20.21	20.21	20.23		
15	QPSK	1	37	19.38	19.50	19.22	20	1.5
15	QPSK	1	74	19.10	19.16	19.23		
15	QPSK	36	0	19.32	19.32	19.23		
15	QPSK	36	24	19.30	19.51	19.38		
15	QPSK	75	0	19.31	19.46	19.59		
15	QPSK	75	24	19.31	19.45	19.17		
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.23	20.19	20.25	21.5	0
10	QPSK	1	49	20.25	20.09	20.14		
10	QPSK	50	0	20.20	20.32	20.27		
10	QPSK	50	24	20.20	20.34	20.29		
10	QPSK	25	0	20.05	20.32	20.10		
10	QPSK	25	24	20.13	20.27	20.22		
10	QPSK	1	0	20.23	20.28	20.22		
10	QPSK	1	26	20.08	20.14	19.99	21.5	0
10	QPSK	50	0	20.12	20.38	20.20		
10	QPSK	50	24	20.28	20.08	20.20		
10	QPSK	100	0	20.03	20.23	20.27		
10	QPSK	100	24	20.18	20.38	20.24		
10	QPSK	1	0	20.16	20.24	20.27		
10	QPSK	1	26	20.13	20.38	20.21		
10	QPSK	50	0	20.03	20.27	20.22		
10	QPSK	50	24	19.98	20.21	20.26		
10	QPSK	100	0	20.29	20.15	20.23		
10	QPSK	100	24	20.19	20.31	20.21		
10	QPSK	1	0	20.25	20.18	20.21		
10	QPSK	1	26	20.27	20.18	20.21		
10	QPSK	50	0	20.25	20.38	20.20		
10	QPSK	50	24	19.93	19.43	19.45		
10	QPSK	100	0	19.43	19.34	19.31	20	1.5
10	QPSK	100	24	19.96	19.11	19.21		
10	QPSK	1	0	19.96	19.11	19.21		
10	QPSK	1	26	19.92	19.43	19.46		
10	QPSK	50	0	19.24	19.43	19.46		
10	QPSK	50	24	19.22	19.18	19.14		
10	QPSK	100	0	19.13	19.35	19.14		
10	QPSK	100	24	19.13	19.35	19.14		
Channel								
Frequency (MHz)								
3	QPSK	1	0	20.17	20.13	20.12	22	0
3	QPSK	1	14	20.17	20.13	20.12		
3	QPSK	3	0	20.17	20.13	20.12		
3	QPSK	3	14	20.17	20.13	20.12		
3	QPSK	12	0	20.17	20.13	20.12		
3	QPSK	12	14	20.17	20.13	20.12		
3	QPSK	25	0	20.17	20.13	20.12		
3	QPSK	25	14	20.17	20.13	20.12		
3	QPSK	1	0	20.14	20.10	20.10	22	0
3	QPSK	1	14	20.14	20.10	20.10		
3	QPSK	12	0	20.14	20.10	20.10		
3	QPSK	12	14	20.14	20.10	20.10		
3	QPSK	25	0	20.14	20.10	20.10		
3	QPSK	25	14	20.14	20.10	20.10		
3	QPSK	1	0	20.04	20.10	20.10	22	0
3	QPSK	1	14	20.04	20.10	20.10		
3	QPSK	12	0	20.04	20.10	20.10		
3	QPSK	12	14	20.04	20.10	20.10		
3	QPSK	25	0	20.04	20.10	20.10		
3	QPSK	25	14	20.04	20.10	20.10		
3	QPSK	1	0	20.07	20.07	20.07	22	0
3	QPSK	1	14	20.07	20.07	20.07		
3	QPSK	12	0	20.07	20.07	20.07		
3	QPSK	12	14	20.07	20.07	20.07		
3	QPSK	25	0	20.07	20.07	20.07		
3	QPSK	25	14	20.07	20.07	20.07		
3	QPSK	1	0	20.04	20.04	20.04	22	0
3	QPSK	1	14	20.04	20.04	20.04		
3	QPSK	12	0	20.04	20.04	20.04		
3	QPSK	12	14	20.04	20.04	20.04		
3	QPSK	25	0	20.04	20.04	20.04		
3	QPSK	25	14	20.04	20.04	20.04		
3	QPSK	1	0	19.42	19.38	19.35	20	2
3	QPSK	1	14	19.42	19.38	19.35		
3	QPSK	12	0	19.42	19.38	19.35		
3	QPSK	12	14	19.42	19.38	19.35		
3	QPSK	25	0	19.42	19.38	19.35		
3	QPSK	25	14	19.42	19.38	19.35		
3	QPSK	1	0	19.35	19.31	19.29	20	1.5
3	QPSK	1	14	19.35	19.31	19.29		
3	QPSK	12	0	19.35	19.31	19.29		
3	QPSK	12	14	19.35	19.31	19.29		
3	QPSK	25	0	19.35	19.31	19.29		
3	QPSK	25	14	19.35	19.31	19.29		
3	QPSK	1	0	19.32	19.28	19.25	20	2
3	QPSK	1	14	19.32	19.28	19.25		
3	QPSK	12	0	19.32	19.28	19.25		
3	QPSK	12	14	19.32	19.28	19.25		
3	QPSK	25	0	19.32	19.28	19.25		
3	QPSK	25	14	19.32	19.28	19.25		
3	QPSK	1	0	19.24	19.24	19.24	22	0
3	QPSK	1	14	19.24	19.24	19.24		
3	QPSK	12	0	19.24	19.24	19.24		
3	QPSK	12	14	19.24	19.24	19.24		
3	QPSK	25	0	19.24	19.24	19.24		
3	QPSK	25	14	19.24	19.24	19.24		
3	QPSK	1	0	19.18	19.18	19.18	20	2
3	QPSK	1	14	19.18	19.18	19.18		
3	QPSK	12	0	19.18	19.18	19.18		
3	QPSK	12	14	19.18	19.18	19.18		
3	QPSK	25	0	19.18	19.18	19.18		
3	QPSK	25	14	19.18	19.18	19.18		
3	QPSK	1	0	19.15	19.15	19.15	20	2
3								



Band 12 Ant0 DS16 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.19	22.96			24	0
10	QPSK	1	49	23.12	23.13	23.11				
10	QPSK	25	0	23.04	23.15	23.08				
10	QPSK	25	49	23.14	23.08	23.09			24	0
10	QPSK	50	0	22.96	23.13	23.08				
10	16QAM	1	25	23.04	23.09	23.10	24	0		
10	16QAM	1	49	23.08	23.08	23.10				
10	16QAM	25	0	22.92	23.05	22.90			24	0
10	16QAM	25	49	22.95	22.98	22.95				
10	16QAM	50	0	22.88	22.97	23.01				
10	64QAM	1	25	23.04	23.12	23.15			24	0
10	64QAM	1	49	23.08	23.08	23.10				
10	64QAM	25	0	22.92	22.93	22.99				
10	64QAM	25	49	22.93	22.97	22.93			24	0
10	64QAM	50	0	22.81	22.97	22.99				
10	64QAM	50	49	22.81	22.99	22.99				
10	256QAM	1	0	19.44	19.61	19.41	20	4		
10	256QAM	1	25	19.46	19.54	19.45				
10	256QAM	1	49	19.53	19.53	19.58				
10	256QAM	1	75	19.54	19.54	19.51				
10	256QAM	25	12	19.47	19.54	19.58			20	4
10	256QAM	25	25	19.52	19.43	19.40				
10	256QAM	25	49	19.53	19.43	19.40				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.80	23.03	22.77			24	0
5	QPSK	1	24	22.83	23.08	23.13				
5	QPSK	12	0	22.84	22.89	22.99				
5	QPSK	12	13	22.85	22.87	22.79			24	0
5	QPSK	25	0	22.92	22.94	22.94				
5	16QAM	1	0	22.96	23.14	23.03	24	0		
5	16QAM	1	12	22.82	22.97	23.00				
5	16QAM	1	24	22.94	22.99	23.02				
5	16QAM	12	7	22.84	22.95	22.98			24	0
5	16QAM	12	13	22.84	22.95	22.98				
5	64QAM	1	0	22.72	22.81	22.88			24	0
5	64QAM	1	24	22.79	22.89	22.96				
5	64QAM	12	0	22.80	22.85	22.95				
5	64QAM	12	13	22.85	22.89	22.88			24	0
5	64QAM	25	0	22.83	22.82	22.80				
5	64QAM	25	13	22.85	22.82	22.80				
5	256QAM	1	0	19.41	19.51	19.56	20	4		
5	256QAM	1	24	19.44	19.48	19.59				
5	256QAM	12	0	19.43	19.49	19.51			20	4
5	256QAM	12	13	19.46	19.55	19.54				
5	256QAM	25	0	19.50	19.42	19.40				
Channel										
Frequency (MHz)										
14	QPSK	1	0	23.24	23.09	23.11				
14	QPSK	1	5	23.26	23.00	23.15			24	0
14	QPSK	3	0	23.09	23.01	23.17				
14	QPSK	3	1	23.07	23.04	23.16				
14	QPSK	3	3	22.97	23.00	23.12			24	0
14	16QAM	1	0	22.96	23.06	23.15				
14	16QAM	1	3	22.98	23.05	23.17				
14	16QAM	3	0	23.03	23.01	23.13			24	0
14	16QAM	3	1	22.77	22.81	22.91				
14	16QAM	3	3	22.78	22.78	22.91				
14	64QAM	1	0	22.92	22.84	23.12			24	0
14	64QAM	1	3	23.01	22.97	23.10				
14	64QAM	1	5	22.83	22.81	23.03				
14	64QAM	3	0	22.85	22.83	23.05				
14	64QAM	3	1	22.87	22.89	23.04				
14	64QAM	3	3	22.88	22.88	23.01				
14	256QAM	1	0	19.37	19.58	19.59	24	0		
14	256QAM	1	3	19.39	19.62	19.55				
14	256QAM	3	1	19.65	19.57	19.49				
14	256QAM	3	3	19.51	19.56	19.58			20	4

Band 13 Ant0 DS16 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.85	22.85	22.85			24	0
10	QPSK	1	25	22.83	22.83	22.83				
10	QPSK	1	49	22.88	22.88	22.88				
10	QPSK	25	0	22.85	22.85	22.85			24	0
10	QPSK	25	25	22.83	22.83	22.83				
10	QPSK	50	0	22.82	22.82	22.82				
10	16QAM	1	25	22.84	22.84	22.84	24	0		
10	16QAM	1	49	22.81	22.81	22.81				
10	16QAM	25	0	22.79	22.79	22.79			23	1
10	16QAM	25	12	21.34	21.37	21.37				
10	16QAM	25	25	21.34	21.34	21.34				
10	16QAM	50	0	21.81	21.81	21.81				
10	16QAM	50	49	21.84	21.84	21.84				
10	64QAM	1	0	22.40	22.40	22.40			24	0
10	64QAM	1	25	22.40	22.40	22.40				
10	64QAM	25	0	21.62	21.62	21.62				
10	64QAM	25	12	21.36	21.36	21.36			23	1
10	64QAM	25	25	21.32	21.32	21.32				
10	64QAM	50	0	21.22	21.22	21.22				
10	64QAM	50	49	21.22	21.22	21.22				
10	256QAM	1	25	19.40	19.40	19.40	20	4		
10	256QAM	1	49	19.17	19.17	19.17				
10	256QAM	25	0	18.99	18.99	18.99				
10	256QAM	25	12	18.78	18.78	18.78			20	4
10	256QAM	25	25	18.60	18.60	18.60				
10	256QAM	50	0	18.63	18.63	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.66	22.64	22.74			24	0
5	QPSK	1	12	22.65	22.86	22.82				
5	QPSK	1	24	22.76	22.76	22.99				
5	QPSK	12	0	22.47	22.41	22.87				
5	QPSK	12	7	22.67	22.61	22.53			24	0
5	QPSK	12	13	22.58	22.58	22.23				
5	QPSK	25	0	22.38	22.36	22.42				
5	16QAM	1	0	22.99	23.16	22.82	24	0		
5	16QAM	1	12	22.49	22.59	22.76				
5	16QAM	1	24	22.72	22.78	22.56				
5	16QAM	12	0	21.54	21.45	21.39			23	1
5	16QAM	12	7	21.32	21.48	21.73				
5	16QAM	12	13	21.61	21.47	21.85				
5	64QAM	1	0	21.42	21.20	21.84			24	0
5	64QAM	1	24	22.05	22.16	22.14				
5	64QAM	12	0	21.51	21.53	21.78				
5	64QAM	12	7	21.61	21.47	21.85				
5	64QAM	12	13	21.87	21.80	21.35			23	1
5	64QAM	25	0	21.34	21.33	22.06				
5	64QAM	25	0	21.42	21.20	21.84				
5	256QAM	1	0	19.30	19.40	19.41	20	4		
5	256QAM	1	12	19.38	19.30	19.33				
5	256QAM	12	0	19.53	19.51	19.58				
5	256QAM	12	7	19.62	19.54	19.55				
5	256QAM	12	13	19.72	19.51	19.51			20	4
5	256QAM	25	0	19.47	19.43	19.51				

Band 14 Ant0 DS16 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.70	22.70			24	0
10	QPSK	1	25	22.70	22.70	22.70				
10	QPSK	1	49	22.70	22.70	22.70				
10	QPSK	25	0	22.70	22.70	22.70			23	1
10	QPSK	25	12	22.70	22.70	22.70				
10	QPSK	25	25	22.77	22.77	22.77				
10	QPSK	50	0	22.37	22.37	22.37				



Band 25 Ant0_DS16 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Low./F.Freq.	Time-up Int. (sec)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	20.35	20.47	20.34	21.5	0
20	QPSK	1	49	20.00	20.11	20.25	21.5	0
20	QPSK	1	99	20.27	20.28	20.20	21.5	0
20	QPSK	50	0	20.27	20.33	20.24	21.5	0
20	QPSK	50	24	20.21	20.28	20.13	21.5	0
20	QPSK	50	50	20.23	20.08	20.30	21.5	0
20	QPSK	100	0	20.24	20.25	20.23	21.5	0
20	QPSK	100	24	20.08	20.14	20.14	21.5	0
20	16QAM	1	49	20.35	20.21	20.26	21.5	0
20	16QAM	1	99	20.17	20.25	20.20	21.5	0
20	16QAM	50	0	20.00	20.11	20.25	21.5	0
20	16QAM	50	24	20.10	20.20	20.20	21.5	0
20	16QAM	50	50	20.21	20.15	20.18	21.5	0
20	16QAM	100	0	20.21	20.15	20.18	21.5	0
20	16QAM	100	24	20.12	20.10	20.15	21.5	0
20	16QAM	100	50	20.23	20.04	20.22	21.5	0
20	16QAM	150	0	20.09	20.10	20.31	21.5	0
20	16QAM	150	24	20.28	20.22	20.18	21.5	0
20	16QAM	150	50	20.19	20.20	20.20	21.5	0
20	256QAM	1	49	19.52	19.52	19.59	20	1.5
20	256QAM	1	99	19.47	19.65	19.43	20	1.5
20	256QAM	50	0	19.57	19.66	19.56	20	1.5
20	256QAM	50	24	19.54	19.57	19.60	20	1.5
20	256QAM	50	50	19.62	19.65	19.57	20	1.5
20	256QAM	100	0	19.55	19.58	19.61	20	1.5
Channel								
Frequency (MHz)								
10	QPSK	1	0	20.22	20.31	20.19	21.5	0
10	QPSK	1	49	20.25	20.20	20.21	21.5	0
10	QPSK	1	99	20.15	20.19	20.14	21.5	0
10	QPSK	50	0	20.14	20.24	20.20	21.5	0
10	QPSK	50	24	20.07	20.20	20.03	21.5	0
10	QPSK	50	50	20.15	19.98	20.22	21.5	0
10	QPSK	100	0	20.19	20.10	20.20	21.5	0
10	QPSK	100	24	19.91	20.11	20.00	21.5	0
10	QPSK	100	50	20.19	20.08	19.97	21.5	0
10	16QAM	1	49	19.85	19.97	19.84	21.5	0
10	16QAM	1	99	19.85	20.07	19.84	21.5	0
10	16QAM	50	0	20.04	20.11	20.28	21.5	0
10	16QAM	50	24	20.19	20.20	20.18	21.5	0
10	16QAM	50	50	20.14	20.11	19.82	21.5	0
10	16QAM	100	0	20.07	20.01	19.99	21.5	0
10	16QAM	100	24	19.98	20.11	19.71	21.5	0
10	16QAM	100	50	20.08	20.20	20.09	21.5	0
10	16QAM	150	0	19.88	19.89	19.09	21.5	0
10	16QAM	150	24	19.89	19.95	19.88	21.5	0
10	16QAM	150	50	20.23	20.10	20.00	21.5	0
10	16QAM	150	75	20.12	19.85	20.08	21.5	0
10	256QAM	1	49	19.83	19.83	19.84	20	1.5
10	256QAM	1	99	19.43	19.55	19.58	20	1.5
10	256QAM	50	0	19.74	19.55	19.54	20	1.5
10	256QAM	50	24	19.48	19.52	19.55	20	1.5
10	256QAM	50	50	19.55	19.72	19.55	20	1.5
10	256QAM	100	0	19.55	19.58	19.67	20	1.5
Channel								
Frequency (MHz)								
5	QPSK	1	0	20.22	20.31	20.19	21.5	0
5	QPSK	1	49	20.25	20.20	20.21	21.5	0
5	QPSK	1	99	20.15	20.19	20.14	21.5	0
5	QPSK	50	0	20.14	20.24	20.20	21.5	0
5	QPSK	50	24	20.07	20.20	20.03	21.5	0
5	QPSK	50	50	20.15	19.98	20.22	21.5	0
5	QPSK	100	0	20.19	20.10	20.20	21.5	0
5	QPSK	100	24	19.91	20.11	20.00	21.5	0
5	QPSK	100	50	20.19	20.08	19.97	21.5	0
5	16QAM	1	49	19.85	19.97	19.84	21.5	0
5	16QAM	1	99	19.85	20.07	19.84	21.5	0
5	16QAM	50	0	20.04	20.11	20.28	21.5	0
5	16QAM	50	24	20.19	20.20	20.18	21.5	0
5	16QAM	50	50	20.14	20.11	19.82	21.5	0
5	16QAM	100	0	20.07	20.01	19.99	21.5	0
5	16QAM	100	24	19.98	20.11	19.71	21.5	0
5	16QAM	100	50	20.08	20.20	20.09	21.5	0
5	16QAM	150	0	19.88	19.89	19.09	21.5	0
5	16QAM	150	24	19.89	19.95	19.88	21.5	0
5	16QAM	150	50	20.23	20.10	20.00	21.5	0
5	16QAM	150	75	20.12	19.85	20.08	21.5	0
5	256QAM	1	49	19.83	19.83	19.84	20	1.5
5	256QAM	1	99	19.43	19.55	19.58	20	1.5
5	256QAM	50	0	19.74	19.55	19.54	20	1.5
5	256QAM	50	24	19.48	19.52	19.55	20	1.5
5	256QAM	50	50	19.55	19.72	19.55	20	1.5
5	256QAM	100	0	19.55	19.58	19.67	20	1.5
Channel								
Frequency (MHz)								
2.5	QPSK	1	0	20.22	20.31	20.19	21.5	0
2.5	QPSK	1	49	20.25	20.20	20.21	21.5	0
2.5	QPSK	1	99	20.15	20.19	20.14	21.5	0
2.5	QPSK	50	0	20.14	20.24	20.20	21.5	0
2.5	QPSK	50	24	20.07	20.20	20.03	21.5	0
2.5	QPSK	50	50	20.15	19.98	20.22	21.5	0
2.5	QPSK	100	0	20.19	20.10	20.20	21.5	0
2.5	QPSK	100	24	19.91	20.11	20.00	21.5	0
2.5	QPSK	100	50	20.19	20.08	19.97	21.5	0
2.5	16QAM	1	49	19.85	19.97	19.84	21.5	0
2.5	16QAM	1	99	19.85	20.07	19.84	21.5	0
2.5	16QAM	50	0	20.04	20.11	20.28	21.5	0
2.5	16QAM	50	24	20.19	20.20	20.18	21.5	0
2.5	16QAM	50	50	20.14	20.11	19.82	21.5	0
2.5	16QAM	100	0	20.07	20.01	19.99	21.5	0
2.5	16QAM	100	24	19.98	20.11	19.71	21.5	0
2.5	16QAM	100	50	20.08	20.20	20.09	21.5	0
2.5	16QAM	150	0	19.88	19.89	19.09	21.5	0
2.5	16QAM	150	24	19.89	19.95	19.88	21.5	0
2.5	16QAM	150	50	20.23	20.10	20.00	21.5	0
2.5	16QAM	150	75	20.12	19.85	20.08	21.5	0
2.5	256QAM	1	49	19.83	19.83	19.84	20	1.5
2.5	256QAM	1	99	19.43	19.55	19.58	20	1.5
2.5	256QAM	50	0	19.74	19.55	19.54	20	1.5
2.5	256QAM	50	24	19.48	19.52	19.55	20	1.5
2.5	256QAM	50	50	19.55	19.72	19.55	20	1.5
2.5	256QAM	100	0	19.55	19.58	19.67	20	1.5
Channel								
Frequency (MHz)								
1.25	QPSK	1	0	20.22	20.31	20.19	21.5	0
1.25	QPSK	1	49	20.25	20.20	20.21	21.5	0
1.25	QPSK	1	99	20.15	20.19	20.14	21.5	0
1.25	QPSK	50	0	20.14	20.24	20.20	21.5	0
1.25	QPSK	50	24	20.07	20.20	20.03	21.5	0
1.25	QPSK	50	50	20.15	19.98	20.22	21.5	0
1.25	QPSK	100	0	20.19	20.10	20.20	21.5	0
1.25	QPSK	100	24	19.91	20.11	20.00	21.5	0
1.25	QPSK	100	50	20.19	20.08	19.97	21.5	0
1.25	16QAM	1	49	19.85	19.97	19.84	21.5	0
1.25	16QAM	1	99	19.85	20.07	19.84	21.5	0
1.25	16QAM	50	0	20.04	20.11	20.28	21.5	0
1.25	16QAM	50	24	20.19	20.20	20.18	21.5	0
1.25	16QAM	50	50	20.14	20.11	19.82	21.5	0
1.25	16QAM	100	0	20.07	20.01	19.99	21.5	0
1.25	16QAM	100	24	19.98	20.11	19.71	21.5	0
1.25	16QAM	100	50	20.08	20.20	20.09	21.5	0
1.25	16QAM	150	0	19.88	19.89	19.09	21.5	0
1.25	16QAM	150	24	19.89	19.95	19.88	21.5	0
1.25	16QAM	150	50	20.23	20.10	20.00	21.5	0
1.25	16QAM	150	75	20.12	19.85	20.08	21.5	0
1.25	256QAM	1	49	19.83	19.83	19.84	20	1.5
1.25	256QAM	1	99	19.43	19.55	19.58	20	1.5
1.25	256QAM	50	0	19.74	19.55	19.54	20	1.5
1.25	256QAM	50	24	19.48	19.52	19.55	20	1.5
1.25	256QAM	50	50</					



Band 71 Ant0 Standalone DSI6									
BW (MHz)	Modulation	RE Size	RB Offset	Power Low Ch. F/Freq.	Power Mid Ch. F/Freq.	Power High Ch. F/Freq.	Time-up limit (dB)	MPE (dB)	
Channel									
				673	683	688			
20	QPSK	1	0	22.78	22.83	22.81			
20	QPSK	1	49	22.85	22.73	22.7	24	0	
20	QPSK	1	99	22.82	22.51	22.53			
20	QPSK	50	0	22.50	22.86	22.65			
20	QPSK	50	24	22.41	22.82	22.61	24	0	
20	QPSK	50	50	22.32	22.37	22.34			
20	QPSK	100	0	22.33	22.42	22.40			
20	16QAM	1	0	22.58	22.87	22.58			
20	16QAM	1	49	22.70	22.75	22.63	24	0	
20	16QAM	1	99	22.39	22.52	22.41			
20	16QAM	50	0	22.04	22.07	21.98			
20	16QAM	50	24	21.74	21.84	21.81	23	1	
20	16QAM	50	50	21.67	21.88	21.76			
20	16QAM	100	0	21.41	21.45	21.25			
20	64QAM	1	0	22.58	22.89	22.58			
20	64QAM	1	49	22.32	22.51	22.20	24	0	
20	64QAM	1	99	22.25	22.34	22.29			
20	64QAM	50	0	21.87	21.92	22.01			
20	64QAM	50	24	21.58	21.72	21.72	23	1	
20	64QAM	50	50	21.57	21.68	21.54			
20	64QAM	100	0	21.19	21.39	21.41			
20	256QAM	1	0	18.85	18.72	18.68			
20	256QAM	1	49	19.08	19.21	19.19	20	4	
20	256QAM	1	99	19.00	19.17	18.88			
20	256QAM	50	0	19.18	19.27	19.13			
20	256QAM	50	24	19.25	19.29	19.25	20	4	
20	256QAM	50	50	18.93	18.94	18.87			
20	256QAM	100	0	19.10	19.23	19.11			
Channel									
				670.5	680.5	690.5			
15	QPSK	1	0	22.73	22.73	22.79			
15	QPSK	1	37	22.44	22.62	22.61	24	0	
15	QPSK	1	74	22.54	22.45	22.48			
15	QPSK	36	0	22.44	22.68	22.58			
15	QPSK	36	20	22.21	22.48	22.39	24	0	
15	QPSK	36	39	22.32	22.26	22.35			
15	16QAM	1	0	22.44	22.81	22.46			
15	16QAM	1	37	22.69	22.58	22.41	24	0	
15	16QAM	1	74	22.17	22.51	22.23			
15	16QAM	36	0	21.89	22.00	21.99			
15	16QAM	36	20	21.59	21.67	21.61	23	1	
15	16QAM	36	39	21.76	21.71	21.65			
15	64QAM	1	0	22.58	22.59	22.54			
15	64QAM	1	37	22.23	22.38	22.28	24	0	
15	64QAM	1	74	22.15	22.30	22.23			
15	64QAM	36	0	21.88	21.83	21.89			
15	64QAM	36	20	21.49	21.58	21.51	23	1	
15	64QAM	36	39	21.47	21.80	21.55			
15	64QAM	75	0	21.08	21.27	21.30			
15	256QAM	1	0	18.88	18.98	19.03			
15	256QAM	1	37	18.89	19.23	19.03	20	4	
15	256QAM	1	74	18.92	19.16	18.77			
15	256QAM	36	0	19.05	19.16	19.08			
15	256QAM	36	20	19.13	19.11	19.22	20	4	
15	256QAM	36	39	18.88	18.77	18.79			
15	256QAM	75	0	19.01	19.07	19.00			
Channel									
				688	678	693			
10	QPSK	1	0	22.64	22.61	22.62			
10	QPSK	1	25	22.57	22.86	22.58	24	0	
10	QPSK	1	49	22.53	22.49	22.50			
10	QPSK	25	0	22.39	22.57	22.48			
10	QPSK	25	12	22.22	22.32	22.43	24	0	
10	QPSK	25	25	22.34	22.34	22.27			
10	QPSK	60	0	22.12	22.37	22.28			
10	16QAM	1	0	22.44	22.90	22.38			
10	16QAM	1	25	22.88	22.72	22.52	24	0	
10	16QAM	1	49	22.07	22.54	22.05			
10	16QAM	25	0	22.00	21.90	21.87			
10	16QAM	25	12	21.70	21.86	21.74	23	1	
10	16QAM	25	25	21.86	21.76	21.75			
10	16QAM	60	0	21.32	21.43	21.07			
10	64QAM	1	0	22.60	22.62	22.57			
10	64QAM	1	25	22.15	22.41	22.28	24	0	
10	64QAM	1	49	22.19	22.16	22.25			
10	64QAM	25	0	21.88	21.72	21.84			
10	64QAM	25	12	21.66	21.74	21.65	23	1	
10	64QAM	25	25	21.46	21.50	21.48			
10	64QAM	60	0	21.08	21.32	21.35			
10	256QAM	1	0	19.78	19.68	19.04			
10	256QAM	1	25	19.04	19.23	19.04	20	4	
10	256QAM	1	49	18.87	18.99	18.86			
10	256QAM	25	0	19.07	19.21	19.02			
10	256QAM	25	12	19.04	19.14	19.20	20	4	
10	256QAM	25	25	18.84	18.78	18.72			
10	256QAM	60	0	19.08	19.10	19.10			
Channel									
				685.5	673.5	696.5			
5	QPSK	1	0	22.75	22.59	22.63			
5	QPSK	1	12	22.35	22.64	22.59	24	0	
5	QPSK	1	24	22.31	22.40	22.37			
5	QPSK	12	0	22.41	22.56	22.54			
5	QPSK	12	7	22.31	22.40	22.51	24	0	
5	QPSK	12	13	22.25	22.35	22.25			
5	QPSK	25	0	22.09	22.22	22.28			
5	16QAM	1	0	22.50	22.49	22.42			
5	16QAM	1	12	22.65	22.72	22.61	24	0	
5	16QAM	1	24	22.32	22.43	22.24			
5	16QAM	12	0	21.84	21.89	21.88			
5	16QAM	12	7	21.70	21.78	21.70	23	1	
5	16QAM	12	13	21.65	21.63	21.60			
5	16QAM	25	0	21.32	21.24	21.21			
5	64QAM	1	0	22.52	22.81	22.49			
5	64QAM	1	12	22.08	22.35	22.28	24	0	
5	64QAM	1	24	22.18	22.13	22.19			
5	64QAM	12	0	21.65	21.70	21.81			
5	64QAM	12	7	21.07	21.64	21.56	23	1	
5	64QAM	12	13	21.39	21.60	21.42			
5	16QAM	25	0	21.06	21.34	21.24			
5	256QAM	1	0	19.93	19.97	19.91			
5	256QAM	1	12	19.91	19.94	19.93	20	4	
5	256QAM	1	24	19.92	19.19	18.86			
5	256QAM	12	0	19.97	19.22	19.92			
5	256QAM	12	7	19.68	19.17	19.09	20	4	
5	256QAM	12	13	19.85	19.91	19.76			
5	256QAM	25	0	19.92	19.20	18.97			



Band 12 Ant0 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.96	23.19	22.88				
10	QPSK	1	25	23.12	23.13	23.11	24	0		
10	QPSK	1	49	23.12	23.13	23.11				
10	QPSK	25	0	23.04	23.15	23.08				
10	QPSK	25	12	23.14	23.09	23.12				
10	QPSK	25	25	23.14	23.08	23.09	24	0		
10	QPSK	50	0	22.96	23.13	23.08				
10	16QAM	0	0	22.99	23.01	23.01				
10	16QAM	1	25	23.04	23.05	23.10	24	0		
10	16QAM	1	49	23.06	23.08	23.10				
10	16QAM	5	0	22.32	22.35	22.49				
10	16QAM	25	12	22.45	22.38	22.48	24	0		
10	16QAM	25	25	22.45	22.47	22.52				
10	16QAM	50	0	22.41	22.47	22.59				
10	8QAM	1	0	22.88	22.87	23.01				
10	8QAM	1	25	23.04	23.12	23.15	24	0		
10	8QAM	1	49	23.08	23.08	23.13				
10	8QAM	25	0	22.52	22.53	22.59				
10	8QAM	25	12	22.63	22.57	22.63	24	0		
10	8QAM	25	25	22.64	22.59	22.70				
10	8QAM	50	0	22.61	22.59	22.60				
10	256QAM	1	25	19.48	19.54	19.45	20	4		
10	256QAM	1	49	19.53	19.53	19.58				
10	256QAM	5	0	19.44	19.47	19.41				
10	256QAM	25	12	19.47	19.54	19.58	20	4		
10	256QAM	25	25	19.52	19.43	19.40				
10	256QAM	50	0	19.52	19.49	19.49				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.80	23.03	22.77				
5	QPSK	1	25	23.02	23.11	23.11	24	0		
5	QPSK	1	24	22.94	23.08	23.13				
5	QPSK	12	0	22.84	22.99	22.89				
5	QPSK	12	7	23.09	22.99	22.95				
5	QPSK	12	13	22.96	23.07	22.79	24	0		
5	QPSK	25	0	22.92	22.94	22.99				
5	16QAM	1	0	22.85	22.74	22.83				
5	16QAM	1	12	22.82	22.97	23.00	24	0		
5	16QAM	1	25	22.84	22.98	23.03				
5	16QAM	12	0	22.24	22.15	22.58				
5	16QAM	12	7	22.44	22.40	22.32	24	0		
5	16QAM	12	13	22.43	22.31	22.43				
5	16QAM	25	0	22.27	22.17	22.25				
5	8QAM	1	0	22.72	22.81	22.58				
5	8QAM	1	12	22.86	22.96	22.87	24	0		
5	8QAM	1	24	23.00	23.05	23.05				
5	8QAM	12	0	22.48	22.38	22.42				
5	8QAM	12	7	22.61	22.38	22.63	24	0		
5	8QAM	12	13	22.65	22.65	22.45				
5	8QAM	25	0	22.43	22.52	22.60				
5	256QAM	1	0	19.43	19.29	19.45				
5	256QAM	1	12	19.41	19.51	19.55	20	4		
5	256QAM	1	24	19.44	19.48	19.59				
5	256QAM	5	0	19.56	19.54	19.55				
5	256QAM	12	7	19.43	19.49	19.61	20	4		
5	256QAM	12	13	19.68	19.55	19.34				
5	256QAM	25	0	19.26	19.43	19.43				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.82	23.09	23.11				
3	QPSK	1	8	22.82	22.85	23.04	24	0		
3	QPSK	1	14	22.92	22.91	22.80				
3	QPSK	8	0	22.96	23.06	22.80				
3	QPSK	8	4	22.88	22.97	22.92	24	0		
3	QPSK	8	7	22.96	22.80	22.84				
3	QPSK	15	0	22.97	23.05	22.95				
3	16QAM	1	0	22.74	22.92	22.89				
3	16QAM	1	8	22.84	22.90	22.87	24	0		
3	16QAM	1	14	22.96	22.94	22.78				
3	16QAM	8	0	22.16	22.24	22.25				
3	16QAM	8	4	22.28	22.08	22.22	24	0		
3	16QAM	8	7	22.17	22.37	22.26				
3	16QAM	15	0	22.26	22.22	22.10				
3	8QAM	1	0	22.80	22.76	22.87				
3	8QAM	1	8	22.76	22.98	23.00	24	0		
3	8QAM	1	14	22.77	22.85	22.83				
3	8QAM	8	0	22.34	22.21	22.37				
3	8QAM	8	4	22.36	22.40	22.49				
3	8QAM	8	7	22.41	22.20	22.25	24	0		
3	8QAM	15	0	22.45	22.40	22.34				
3	256QAM	1	0	19.43	19.29	19.28				
3	256QAM	1	8	19.42	19.53	19.59	20	4		
3	256QAM	1	14	19.53	19.52	19.44				
3	256QAM	8	0	19.56	19.54	19.55				
3	256QAM	8	4	19.44	19.43	19.58	20	4		
3	256QAM	8	7	19.61	19.39	19.25				
3	256QAM	15	0	19.29	19.61	19.58				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.82	22.09	22.11				
1.4	QPSK	1	3	22.06	22.00	22.15	24	0		
1.4	QPSK	1	5	22.00	22.03	22.07				
1.4	QPSK	3	0	22.06	22.01	22.17				
1.4	QPSK	3	1	22.07	22.04	22.16				
1.4	QPSK	3	3	22.07	22.00	22.12	24	0		
1.4	16QAM	1	0	22.04	22.14	22.18				
1.4	16QAM	1	3	22.08	22.05	22.17				
1.4	16QAM	1	5	22.03	22.01	22.13	24	0		
1.4	16QAM	3	0	22.76	22.81	22.81				
1.4	16QAM	3	1	22.77	22.79	22.93				
1.4	16QAM	3	3	22.73	22.78	22.81				
1.4	8QAM	1	0	22.39	22.45	22.58	24	0		
1.4	8QAM	1	3	22.52	22.24	22.12				
1.4	8QAM	1	5	22.83	22.91	23.03				
1.4	8QAM	3	0	22.26	22.03	22.05				
1.4	8QAM	3	1	22.87	22.90	23.04				
1.4	8QAM	3	3	22.86	22.88	23.01	24	0		
1.4	8QAM	6	0	22.50	22.56	22.70				
1.4	256QAM	1	0	19.37	19.68	19.58				
1.4	256QAM	1	3	19.48	19.61	19.53	20	4		
1.4	256QAM	1	5	19.53	19.53	19.50				
1.4	256QAM	3	0	19.35	19.62	19.55				
1.4	256QAM	3	1	19.65	19.57	19.49				
1.4	256QAM	6	0	19.37	19.54	19.50	20	4		

Band 13 Ant0 DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.86						
10	QPSK	1	25	22.86			24	0		
10	QPSK	1	49	22.85						
10	QPSK	25	0	22.86						
10	QPSK	25	12	22.84			24	0		
10	QPSK	25	25	22.83						
10	QPSK	50	0	22.22						
10	16QAM	1	0	22.91						
10	16QAM	1	25	22.44			24	0		
10	16QAM	1	49	22.11						
10	16QAM	5	0	21.79						
10	16QAM	25	12	21.34						
10	16QAM	25	25	21.81						
10	16QAM	50	0	21.24						
10	8QAM	1	0	22.40						
10	8QAM	1	25	22.40			24	0		
10	8QAM	1	49	22.32						
10	8QAM	25	0	21.82						
10	8QAM	25	12	21.34			23	1		
10	8QAM	25	25	21.80						
10	8QAM	50	0	21.22					</	



Band 25 Ant0_DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.70	18.91	18.74				
20	QPSK	1	49	18.77	18.77	18.77	20	0		
20	QPSK	1	99	18.71	18.56	18.52				
20	QPSK	50	0	18.77	18.70	18.75				
20	QPSK	50	24	18.51	18.66	18.69				
20	QPSK	50	50	18.68	18.67	18.59				
20	QPSK	100	0	18.66	18.70	18.72				
20	16QAM	1	0	18.53	18.73	18.68				
20	16QAM	1	49	18.71	18.72	18.52	20	0		
20	16QAM	1	99	18.69	18.53	18.68				
20	16QAM	50	0	18.69	18.74	18.81				
20	16QAM	50	24	18.52	18.70	18.73				
20	16QAM	50	50	18.67	18.81	18.81				
20	16QAM	100	0	18.66	18.80	18.85				
20	64QAM	1	0	18.61	18.72	18.66				
20	64QAM	1	49	18.52	18.83	18.71	20	0		
20	64QAM	1	99	18.48	18.85	18.80				
20	64QAM	50	0	18.77	18.83	18.66				
20	64QAM	50	24	18.69	18.87	18.78				
20	64QAM	50	50	18.80	18.70	18.83				
20	64QAM	100	0	18.70	18.56	18.49				
20	256QAM	1	0	18.42	18.66	18.61				
20	256QAM	1	49	18.74	18.69	18.56	20	1.5		
20	256QAM	1	99	18.76	18.44	18.79				
20	256QAM	50	0	18.66	18.66	18.66				
20	256QAM	50	24	18.70	18.62	18.79				
20	256QAM	50	50	18.75	18.50	18.82				
20	256QAM	100	0	18.56	18.69	18.81				
Channel										
Frequency (MHz)										
18	QPSK	1	0	18.65	18.77	18.80				
18	QPSK	1	37	18.43	18.66	18.69	20	0		
18	QPSK	1	74	18.67	18.47	18.34				
18	QPSK	36	0	18.71	18.74	18.82				
18	QPSK	36	20	18.39	18.58	18.65				
18	QPSK	36	39	18.60	18.56	18.40				
18	QPSK	75	0	18.60	18.60	18.60				
18	16QAM	1	0	18.46	18.81	18.89				
18	16QAM	1	37	18.61	18.50	18.39	20	0		
18	16QAM	1	74	18.42	18.66	18.61				
18	16QAM	36	0	18.63	18.84	18.47				
18	16QAM	36	20	18.48	18.60	18.87				
18	16QAM	36	39	18.56	18.70	18.85				
18	16QAM	75	0	18.50	18.54	18.48				
18	64QAM	1	0	18.51	18.62	18.53				
18	64QAM	1	37	18.41	18.60	18.83	20	0		
18	64QAM	1	74	18.40	18.55	18.45				
18	64QAM	36	0	18.66	18.54	18.56				
18	64QAM	36	20	18.56	18.74	18.81				
18	64QAM	36	39	18.57	18.55	18.44				
18	64QAM	75	0	18.62	18.40	18.41				
18	256QAM	1	0	18.33	18.63	18.64				
18	256QAM	1	37	18.50	18.55	18.41	20	1.5		
18	256QAM	1	74	18.48	18.37	18.72				
18	256QAM	36	0	18.58	18.62	18.45				
18	256QAM	36	20	18.56	18.48	18.82				
18	256QAM	36	39	18.63	18.43	18.49	20	1.5		
18	256QAM	75	0	18.63	18.48	18.44				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.55	18.80	19.10				
10	QPSK	1	25	18.54	18.65	18.87	20	0		
10	QPSK	1	49	18.54	18.44	18.39				
10	QPSK	12	0	18.66	18.51	18.61				
10	QPSK	25	12	18.44	18.51	18.56				
10	QPSK	25	25	18.54	18.49	18.46				
10	16QAM	1	0	18.50	18.70	18.69				
10	16QAM	1	0	18.42	18.64	18.59				
10	16QAM	1	24	18.54	18.63	18.39	20	0		
10	16QAM	1	49	18.60	18.60	18.83				
10	16QAM	25	0	18.56	18.67	18.44				
10	16QAM	25	12	18.50	18.64	18.62				
10	16QAM	25	25	18.48	18.48	18.72				
10	16QAM	50	0	18.61	18.52	18.59				
10	64QAM	1	0	18.44	18.67	18.55				
10	64QAM	1	24	18.44	18.62	18.48	20	0		
10	64QAM	1	49	18.39	18.59	18.54				
10	64QAM	25	0	18.59	18.49	18.59				
10	64QAM	25	12	18.50	18.50	18.56				
10	64QAM	50	0	18.54	18.46	18.39				
10	256QAM	1	0	18.35	18.56	18.55				
10	256QAM	1	24	18.48	18.38	18.40	20	1.5		
10	256QAM	1	49	18.58	18.30	18.65				
10	256QAM	25	0	18.52	18.37	18.51				
10	256QAM	25	12	18.59	18.55	18.81				
10	256QAM	25	25	18.66	18.45	18.44	20	1.5		
10	256QAM	50	0	18.55	18.47	18.42				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.52	18.80	19.15				
5	QPSK	1	12	18.57	18.63	18.68	20	0		
5	QPSK	1	24	18.67	18.48	18.47				
5	QPSK	12	0	18.66	18.54	18.66				
5	QPSK	12	7	18.42	18.50	18.56				
5	QPSK	12	13	18.67	18.58	18.47				
5	QPSK	25	0	18.44	18.70	18.64				
5	16QAM	1	0	18.38	18.60	18.57				
5	16QAM	1	12	18.67	18.66	18.38	20	0		
5	16QAM	1	24	18.40	18.63	18.53				
5	16QAM	12	0	18.50	18.69	18.44				
5	16QAM	12	7	18.55	18.62	18.67				
5	16QAM	12	13	18.49	18.34	18.63				
5	16QAM	25	0	18.54	18.50	18.49				
5	64QAM	1	0	18.50	18.65	18.60				
5	64QAM	1	12	18.37	18.54	18.57	20	0		
5	64QAM	1	24	18.33	18.58	18.46				
5	64QAM	12	0	18.60	18.48	18.58				
5	64QAM	12	7	18.61	18.60	18.65				
5	64QAM	12	13	18.67	18.56	18.57				
5	64QAM	25	0	18.62	18.40	18.40				
5	256QAM	1	0	18.35	18.49	18.51				
5	256QAM	1	12	18.65	18.38	18.51	20	1.5		
5	256QAM	1	24	18.60	18.34	18.73				
5	256QAM	12	0	18.42	18.37	18.63				
5	256QAM	12	7	18.56	18.46	18.63				
5	256QAM	12	13	18.64	18.38	18.49	20	1.5		
5	256QAM	25	0	18.50	18.55	18.46				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.50	18.67	18.15				
3	QPSK	1	8	18.56	18.63	18.64	20	0		
3	QPSK	1	14	18.58	18.45	18.35				
3	QPSK	8	0	18.61	18.62	18.62				
3	QPSK	8	4	18.40	18.49	18.63				
3	QPSK	8	7	18.50	18.57	18.45				
3	QPSK	15	0	18.57	18.47	18.57				
3	16QAM	1	0	18.38	18.65	18.57				
3	16QAM	1	8	18.56	18.57	18.44	20	0		
3	16QAM	1	14	18.63	18.42	18.59				
3	16QAM	8	0	18.59	18.62	18.54				
3	16QAM	8	4	18.49	18.38	18.55	20	0		
3	16QAM	8	7	18.52	18.35	18.36				
3	16QAM	15	0	18.49	18.53	18.54				
3	64QAM	1	0	18.46	18.44	18.56				
3	64QAM	1	8	18.47	18.49	18.56	20	0		
3	64QAM	1	14	18.39	18.59	18.52				



Band 66 Ant0_DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Middle Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.44	19.27	19.53	20.5	0		
20	QPSK	1	49	19.42	19.43	19.38				
20	QPSK	1	99	19.41	19.43	19.38				
20	QPSK	50	0	19.41	19.23	19.36				
20	QPSK	50	24	19.31	19.29	19.31				
20	QPSK	50	50	19.44	19.38	19.44				
20	QPSK	100	0	19.42	19.23	19.48				
20	QPSK	100	0	19.44	19.42	19.44				
20	16QAM	1	49	19.32	19.38	19.46	20.5	0		
20	16QAM	1	99	19.28	19.25	19.31				
20	16QAM	50	0	19.48	19.34	19.40				
20	16QAM	50	24	19.45	19.44	19.34				
20	16QAM	50	50	19.50	19.42	19.38				
20	16QAM	100	0	19.51	19.47	19.38				
20	16QAM	100	0	19.32	19.25	19.40				
20	64QAM	1	49	19.28	19.25	19.42	20.5	0		
20	64QAM	1	99	19.48	19.31	19.38				
20	64QAM	50	0	19.49	19.21	19.49				
20	64QAM	50	24	19.24	19.40	19.40				
20	64QAM	50	50	19.34	19.38	19.44				
20	64QAM	100	0	19.47	19.40	19.37				
20	64QAM	100	0	19.47	19.29	19.35				
20	256QAM	1	49	19.28	19.47	19.25	18.5	2		
20	256QAM	1	99	19.35	19.41	19.16				
20	256QAM	50	0	19.45	19.29	19.33				
20	256QAM	50	24	19.25	19.30	19.44				
20	256QAM	50	50	19.33	19.33	19.40				
20	256QAM	100	0	19.34	19.23	19.45				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.48	19.32	19.48	20.5	0		
15	QPSK	1	39	19.31	19.36	19.31				
15	QPSK	1	74	19.28	19.34	19.25				
15	QPSK	36	0	19.39	19.44	19.25				
15	QPSK	36	20	19.20	19.44	19.39				
15	QPSK	36	39	19.38	19.30	19.32				
15	QPSK	75	0	19.29	19.40	19.38				
15	16QAM	1	49	19.44	19.34	19.30	20.5	0		
15	16QAM	1	37	19.19	19.31	19.32				
15	16QAM	1	74	19.18	19.24	19.21				
15	16QAM	36	0	19.44	19.43	19.34				
15	16QAM	36	20	19.38	19.33	19.22				
15	16QAM	36	39	19.42	19.24	19.23				
15	16QAM	75	0	19.39	19.41	19.24				
15	64QAM	1	0	19.18	19.43	19.27	20.5	0		
15	64QAM	1	31	19.31	19.35	19.21				
15	64QAM	1	74	19.35	19.45	19.29				
15	64QAM	36	0	19.41	19.37	19.41				
15	64QAM	36	20	19.18	19.38	19.28				
15	64QAM	36	39	19.43	19.25	19.35				
15	64QAM	75	0	19.37	19.26	19.27				
15	256QAM	1	49	19.35	19.25	19.16	18.5	2		
15	256QAM	1	37	19.23	19.38	19.12				
15	256QAM	1	74	19.29	19.28	19.19				
15	256QAM	36	0	19.39	19.45	19.23				
15	256QAM	36	20	19.11	19.19	19.33				
15	256QAM	36	39	19.25	19.22	19.28				
15	256QAM	75	0	19.23	19.35	19.48				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.44	19.43	19.43	20.5	0		
10	QPSK	1	25	19.31	19.34	19.29				
10	QPSK	1	49	19.27	19.37	19.24				
10	QPSK	25	0	19.35	19.25	19.24				
10	QPSK	25	14	19.18	19.39	19.40				
10	QPSK	25	25	19.30	19.30	19.33				
10	QPSK	50	0	19.38	19.28	19.31				
10	16QAM	1	0	19.45	19.31	19.39	20.5	0		
10	16QAM	1	25	19.18	19.24	19.32				
10	16QAM	1	49	19.13	19.45	19.45				
10	16QAM	25	0	19.31	19.41	19.31				
10	16QAM	25	14	19.34	19.32	19.28				
10	16QAM	25	25	19.40	19.46	19.26				
10	16QAM	50	0	19.39	19.37	19.28				
10	64QAM	1	0	19.17	19.40	19.30	20.5	0		
10	64QAM	1	25	19.31	19.35	19.28				
10	64QAM	1	49	19.35	19.37	19.23				
10	64QAM	25	0	19.39	19.45	19.41				
10	64QAM	25	14	19.15	19.32	19.33				
10	64QAM	25	25	19.42	19.19	19.35				
10	64QAM	50	0	19.40	19.30	19.24				
10	256QAM	1	49	19.33	19.22	19.24	18.5	2		
10	256QAM	1	25	19.14	19.38	19.20				
10	256QAM	1	49	19.21	19.30	19.08				
10	256QAM	25	0	19.34	19.40	19.19				
10	256QAM	25	14	19.15	19.19	19.31				
10	256QAM	25	25	19.28	19.13	19.31				
10	256QAM	50	0	19.23	19.39	19.37				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.42	19.43	19.43	20.5	0		
5	QPSK	1	12	19.34	19.39	19.28				
5	QPSK	1	24	19.26	19.35	19.27				
5	QPSK	12	0	19.38	19.40	19.38				
5	QPSK	12	7	19.22	19.37	19.37				
5	QPSK	12	13	19.38	19.30	19.39				
5	QPSK	25	0	19.36	19.42	19.38				
5	16QAM	1	0	19.43	19.20	19.34	20.5	0		
5	16QAM	1	12	19.21	19.24	19.39				
5	16QAM	1	24	19.17	19.42	19.38				
5	16QAM	12	0	19.43	19.40	19.27				
5	16QAM	12	7	19.30	19.38	19.21				
5	16QAM	12	13	19.49	19.47	19.25				
5	64QAM	1	0	19.24	19.40	19.31	20.5	0		
5	64QAM	1	12	19.25	19.20	19.32				
5	64QAM	1	24	19.39	19.39	19.26				
5	64QAM	12	0	19.38	19.44	19.39				
5	64QAM	12	7	19.16	19.27	19.28				
5	64QAM	12	13	19.42	19.23	19.33				
5	64QAM	25	0	19.34	19.30	19.32				
5	256QAM	1	1	19.34	19.34	19.22	18.5	2		
5	256QAM	1	12	19.16	19.20	19.11				
5	256QAM	1	24	19.29	19.29	19.03				
5	256QAM	12	0	19.36	19.44	19.22				
5	256QAM	12	7	19.19	19.24	19.32				
5	256QAM	12	13	19.29	19.10	19.33				
5	256QAM	25	0	19.27	19.40	19.37				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.40	19.42	19.41	20.5	0		
3	QPSK	1	8	19.28	19.37	19.31				
3	QPSK	1	14	19.30	19.29	19.25				
3	QPSK	8	0	19.38	19.40	19.38				
3	QPSK	8	4	19.16	19.43	19.42				
3	QPSK	8	7	19.37	19.23	19.31				
3	QPSK	15	0	19.36	19.41	19.38				
3	16QAM	1	0	19.48	19.20	19.33	20.5	0		
3	16QAM	1	8	19.28	19.22	19.32				
3	16QAM	1	14	19.14	19.40	19.39				
3	16QAM	8	0	19.50	19.44	19.32				
3	16QAM	8	4	19.39	19.34	19.28				
3	16QAM	8	7	19.45	19.45	19.31				
3	64QAM	1	0	19.42	19.38	19.29	20.5	0		
3	64QAM	1	8	19.30	19.19	19.26				
3	64QAM	1	14	19.30	19.19	19.28				
3	64QAM	8	0	19.38	19.44	19.26				



Band 38 Ant0_ Standalone&Simultaneous DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up Init. (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.59	23.61	23.63	24	0
20	QPSK	1	48	23.73	23.85	23.80		
20	QPSK	1	96	23.72	23.81	23.82		
20	QPSK	50	0	23.59	23.67	23.62		
20	QPSK	50	24	23.75	23.77	23.66		
20	QPSK	50	48	23.74	23.71	23.68		
20	QPSK	100	0	23.72	23.64	23.72		
20	HQAM	1	0	23.49	23.69	23.64		
20	HQAM	1	48	23.74	23.71	23.68		
20	HQAM	1	96	23.80	23.83	23.87		
20	HQAM	50	0	22.90	23.00	23.05		
20	HQAM	50	24	23.07	23.07	23.18		
20	HQAM	50	48	23.05	23.12	23.20		
20	HQAM	100	0	23.01	23.04	23.08		
20	HQAM	100	0	23.51	23.54	23.55		
20	HQAM	1	48	23.66	23.75	23.81		
20	HQAM	1	96	23.66	23.83	23.82		
20	HQAM	50	0	22.86	22.97	23.05		
20	HQAM	50	24	23.04	23.08	23.19		
20	HQAM	50	48	23.07	23.13	23.17		
20	HQAM	100	0	23.00	23.01	23.17		
20	256QAM	1	0	20.03	20.27	20.08		
20	256QAM	1	48	20.33	20.61	20.34		
20	256QAM	1	96	20.06	20.30	20.26		
20	256QAM	50	0	20.00	20.00	20.00		
20	256QAM	50	24	20.09	20.13	20.34		
20	256QAM	50	48	20.23	20.25	20.18		
20	256QAM	100	0	20.00	20.00	20.00		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.75	23.75	23.75	24	0
15	QPSK	1	37	23.87	23.87	23.86		
15	QPSK	1	74	23.94	23.79	23.37		
15	QPSK	36	0	23.62	23.68	23.67		
15	QPSK	36	20	23.66	23.70	23.73		
15	QPSK	75	0	23.73	23.81	23.86		
15	HQAM	1	0	23.45	23.53	23.64		
15	HQAM	1	37	23.71	23.78	23.70		
15	HQAM	1	74	23.71	23.78	23.70		
15	HQAM	36	0	22.78	23.01	22.86		
15	HQAM	36	20	22.90	23.02	23.08		
15	HQAM	75	0	23.00	23.11	23.06		
15	HQAM	75	0	22.79	22.83	23.13		
15	HQAM	1	37	23.83	23.89	23.73		
15	HQAM	1	74	23.98	23.62	23.81		
15	HQAM	36	0	22.86	23.79	23.69		
15	HQAM	36	20	22.93	23.01	23.18		
15	HQAM	75	0	22.83	22.89	23.09		
15	256QAM	1	0	19.91	20.39	20.05		
15	256QAM	1	37	20.00	20.20	20.00		
15	256QAM	1	74	20.19	20.11	20.22		
15	256QAM	36	0	19.07	20.34	20.16		
15	256QAM	36	20	19.26	20.15	20.19		
15	256QAM	75	0	19.00	20.13	20.04		
Channel								
Frequency (MHz)								
10	QPSK	1	0	23.75	23.75	23.75	24	0
10	QPSK	1	25	23.67	23.76	23.67		
10	QPSK	1	49	23.60	23.61	23.59		
10	QPSK	1	73	23.62	23.64	23.66		
10	QPSK	25	0	23.69	23.74	23.75		
10	QPSK	25	25	23.71	23.85	23.83		
10	HQAM	1	0	23.61	23.67	23.62		
10	HQAM	1	25	23.66	23.62	23.66		
10	HQAM	1	49	23.78	23.84	23.66		
10	HQAM	25	0	22.78	22.84	22.74		
10	HQAM	25	25	23.00	22.96	23.11		
10	HQAM	50	0	22.87	22.95	23.10		
10	HQAM	50	0	23.40	23.64	23.60		
10	HQAM	1	25	23.44	23.67	23.74		
10	HQAM	1	49	23.68	23.61	23.75		
10	HQAM	25	0	22.83	22.89	23.01		
10	HQAM	25	12	22.96	23.04	23.02		
10	HQAM	25	25	22.94	23.15	23.16		
10	HQAM	50	0	22.99	22.86	23.16		
10	256QAM	1	0	20.01	20.31	20.16		
10	256QAM	1	25	20.02	20.32	20.34		
10	256QAM	1	49	20.21	20.35	20.35		
10	256QAM	25	0	20.07	20.24	20.21		
10	256QAM	25	12	20.06	20.22	20.06		
10	256QAM	25	25	20.17	20.19	20.12		
10	256QAM	50	0	20.19	20.35	20.07		
Channel								
Frequency (MHz)								
5	QPSK	1	0	23.33	23.60	23.64	24	0
5	QPSK	1	12	23.44	23.64	23.69		
5	QPSK	1	24	23.60	23.69	23.63		
5	QPSK	12	0	23.46	23.60	23.62		
5	QPSK	12	7	23.49	23.61	23.74		
5	QPSK	12	13	23.49	23.69	23.81		
5	QPSK	25	0	23.54	23.78	23.79		
5	HQAM	1	0	23.42	23.48	23.63		
5	HQAM	1	12	23.54	23.44	23.65		
5	HQAM	1	24	23.60	23.69	23.63		
5	HQAM	12	0	22.71	22.78	22.74		
5	HQAM	12	7	22.98	22.85	22.86		
5	HQAM	12	13	22.80	22.85	23.00		
5	HQAM	25	0	22.78	22.84	23.02		
5	HQAM	25	0	23.22	23.35	23.87		
5	HQAM	12	0	23.49	23.67	23.66		
5	HQAM	1	24	23.49	23.61	23.59		
5	HQAM	12	0	22.78	22.78	22.92		
5	HQAM	12	7	22.88	22.88	23.08		
5	HQAM	12	13	22.82	22.89	23.08		
5	HQAM	25	0	22.86	22.92	23.06		
5	256QAM	1	0	20.09	20.32	20.02		
5	256QAM	1	12	20.05	20.27	20.20		
5	256QAM	1	24	20.11	20.33	20.27		
5	256QAM	12	0	19.88	20.27	20.08		
5	256QAM	12	7	20.22	20.11	20.14		
5	256QAM	12	13	20.14	20.31	20.18		
5	256QAM	25	0	20.17	20.22	20.10		

Band 41 Ant0_ Standalone&Simultaneous DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Turn-up Init. (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	23.62	23.45	23.43	24	0
20	QPSK	1	49	23.63	23.59	23.70		
20	QPSK	1	98	23.65	23.59	23.66		
20	QPSK	50	0	23.42	23.32	23.52		
20	QPSK	50	24	23.45	23.39	23.43		
20	QPSK	50	48	23.40	23.34	23.41		
20	QPSK	100	0	23.42	23.33	23.51		
20	HQAM	1	0	23.19	23.13	23.34		
20	HQAM	1	48	23.38	23.25	23.41		
20	HQAM	1	96	23.19	23.15	23.38		
20	HQAM	50	0	22.47	22.38	22.49		
20	HQAM	50	24	22.42	22.37	22.49		
20	HQAM	50	48	22.42	22.36	22.47		
20	HQAM	100	0	21.19	21.14	21.35		
20	HQAM	1	48	23.30	23.27	23.40		
20	HQAM	1	96	23.10	23.10	23.30		
20	HQAM	50	0	22.40	22.34	22.43		
20	HQAM	50	24	22.44	22.38	22.44		
20	HQAM	50	48	22.40	22.35	22.51		
20	HQAM	100	0	22.43	22.38	22.48		
20	256QAM	1	0	18.82	18.97	19.27		
20	256QAM	1	48	19.00	19.00	19.29		
20	256QAM	1	96	18.84	18.83	19.05		
20	256QAM	50	0	18.94	18.84	18.86		
20	256QAM	50	24	18.94	18.81	18.88		
20	256QAM	50	48	18.74	18.75	19.00		
20	256QAM	100	0	18.75	18.87	18.86		
Channel								
Frequency (MHz)								
15	QPSK	1	0	23.68	23.43	23.43	24.00	0
15	QPSK	1	37	23.68	23.45	23.65		
15	QPSK	1	74	23.42	23.30	23.69		
15	QPSK	36	0	23.63	23.52	23.42		
15	QPSK	36	20	23.24	23.22	23.27		
15	QPSK	75	0	23.41	23.41	23.41		
15	QPSK	75	0	23.30	23.26	23.30		
15	HQAM	1	0	23.20	23.14	23.35		
15	HQAM	1	37	23.48	23.48	23.48		
15	HQAM	1	74	23.13	22.99	23.2		



Ant1_ Standalone&Simultaneous DS16					Rx16x Full Power				
GSM350	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	33.50	23.03	22.92	23.16	24.50	
GSM 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50	
GPRS 1 Tx slot	32.03	31.92	32.16	33.50	23.03	22.92	23.16	24.50	
GPRS 2 Tx slots	29.17	29.02	28.96	30.50	23.17	23.02	22.96	24.50	
GPRS 3 Tx slots	27.62	27.43	27.34	29.00	23.36	23.17	23.08	24.74	
GPRS 4 Tx slots	25.51	25.65	25.60	27.50	22.51	22.65	22.60	24.50	
EDGE 1 Tx slot	25.01	24.93	25.07	26.00	16.01	15.93	16.07	17.00	
EDGE 2 Tx slots	23.26	23.11	23.35	25.00	17.26	17.11	17.35	19.00	
EDGE 3 Tx slots	21.98	21.95	22.03	23.50	17.72	17.69	17.77	19.24	
EDGE 4 Tx slots	19.94	19.88	20.13	21.50	16.94	16.88	17.13	18.50	

Ant1_ Standalone&Simultaneous DS16					
Band	WCDMA V			Tune-up Limit (dBm)	
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.41	23.55	23.56	25.00
3GPP Rel 99	RMC 12.2Kbps	23.46	23.65	23.62	25.00
3GPP Rel 6	HSDPA Subtest-1	22.82	22.88	22.99	24.00
3GPP Rel 6	HSDPA Subtest-2	22.75	22.88	22.98	24.00
3GPP Rel 6	HSDPA Subtest-3	22.26	22.39	22.45	23.50
3GPP Rel 6	HSDPA Subtest-4	22.27	22.38	22.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.80	22.86	22.80	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.64	22.78	22.76	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.08	22.37	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.14	22.21	22.33	23.50
3GPP Rel 6	HSUPA Subtest-1	22.76	22.83	22.93	24.00
3GPP Rel 6	HSUPA Subtest-2	20.78	20.84	20.93	22.00
3GPP Rel 6	HSUPA Subtest-3	21.73	21.79	21.89	23.00
3GPP Rel 6	HSUPA Subtest-4	20.73	20.84	20.88	22.00
3GPP Rel 6	HSUPA Subtest-5	22.70	22.80	22.90	24.00



Band 2 Ant1_ Standalone DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (dBm)	Power (dBm)	Time-up (min)	MPR (dB)
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.		
20	QPSK	1	0	21.37	21.42	21.36	22.7	0
20	QPSK	1	49	21.23	21.23	21.23		
20	QPSK	1	99	21.39	21.41	21.34		
20	QPSK	50	0	21.28	21.42	21.31		
20	QPSK	50	24	21.19	21.19	21.19		
20	QPSK	50	50	21.14	21.20	21.25		
20	QPSK	100	0	21.31	21.35	21.28		
20	QPSK	100	24	21.27	21.27	21.27		
20	QPSK	100	49	21.30	21.32	21.26	22.7	0
20	QPSK	150	0	21.30	21.43	21.41		
20	QPSK	150	24	21.25	21.25	21.25		
20	QPSK	150	50	21.14	21.14	21.24	22.7	0
20	QPSK	150	75	21.17	21.21	21.20		
20	QPSK	150	100	21.27	21.27	21.24		
20	QPSK	150	125	21.20	21.21	21.21		
20	QPSK	150	150	21.19	21.25	21.16	22.7	0
20	QPSK	150	175	21.18	21.26	21.18		
20	QPSK	150	200	21.14	21.18	21.16		
20	QPSK	150	225	21.19	21.21	21.19		
20	QPSK	150	250	21.19	21.25	21.16	22.7	0
20	QPSK	150	275	21.15	21.19	21.07		
20	QPSK	150	300	21.13	21.13	21.11	22.7	0
20	QPSK	150	325	21.15	21.15	21.07		
20	QPSK	150	350	21.15	21.19	21.07	22.7	0
20	QPSK	150	375	21.15	21.19	21.07		
20	QPSK	150	400	21.15	21.19	21.07	22.7	0
20	QPSK	150	425	21.15	21.19	21.07		
20	QPSK	150	450	21.15	21.19	21.07	22.7	0
20	QPSK	150	475	21.15	21.19	21.07		
20	QPSK	150	500	21.15	21.19	21.07	22.7	0
20	QPSK	150	525	21.15	21.19	21.07		
20	QPSK	150	550	21.15	21.19	21.07	22.7	0
20	QPSK	150	575	21.15	21.19	21.07		
20	QPSK	150	600	21.15	21.19	21.07	22.7	0
20	QPSK	150	625	21.15	21.19	21.07		
20	QPSK	150	650	21.15	21.19	21.07	22.7	0
20	QPSK	150	675	21.15	21.19	21.07		
20	QPSK	150	700	21.15	21.19	21.07	22.7	0
20	QPSK	150	725	21.15	21.19	21.07		
20	QPSK	150	750	21.15	21.19	21.07	22.7	0
20	QPSK	150	775	21.15	21.19	21.07		
20	QPSK	150	800	21.15	21.19	21.07	22.7	0
20	QPSK	150	825	21.15	21.19	21.07		
20	QPSK	150	850	21.15	21.19	21.07	22.7	0
20	QPSK	150	875	21.15	21.19	21.07		
20	QPSK	150	900	21.15	21.19	21.07	22.7	0
20	QPSK	150	925	21.15	21.19	21.07		
20	QPSK	150	950	21.15	21.19	21.07	22.7	0
20	QPSK	150	975	21.15	21.19	21.07		
20	QPSK	150	1000	21.15	21.19	21.07	22.7	0

Band 4 Ant1_ Standalone DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (dBm)	Power (dBm)	Time-up (min)	MPR (dB)
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.		
20	QPSK	1	0	21.30	21.30	21.29	22.5	0
20	QPSK	1	49	21.24	21.32	21.32		
20	QPSK	1	99	21.24	21.32	21.28		
20	QPSK	50	0	21.22	21.32	21.16	22.5	0
20	QPSK	50	24	21.11	21.11	21.11		
20	QPSK	50	50	21.07	21.14	21.04		
20	QPSK	100	0	21.21	21.30	21.24		
20	QPSK	100	24	21.14	21.21	21.18		
20	QPSK	100	49	21.08	21.18	21.20	22.5	0
20	QPSK	150	0	21.17	21.25	21.30		
20	QPSK	150	24	21.07	21.21	21.22		
20	QPSK	150	49	21.04	21.09	21.07	22.5	0
20	QPSK	150	75	21.03	21.08	21.08		
20	QPSK	150	100	20.97	21.08	21.08		
20	QPSK	150	125	20.97	21.18	21.04	22.5	0
20	QPSK	150	150	21.02	21.17	21.14		
20	QPSK	150	175	21.12	21.22	21.18		
20	QPSK	150	200	20.99	20.95	20.92	22.5	0
20	QPSK	150	225	21.01	20.92	20.93		
20	QPSK	150	250	21.01	20.93	21.05	22.5	0
20	QPSK	150	275	20.92	20.96	21.00		
20	QPSK	150	300	20.95	20.92	20.92		
20	QPSK	150	325	20.92	20.92	20.92	22.5	0
20	QPSK	150	350	20.95	20.92	20.92		
20	QPSK	150	375	20.92	20.92	20.92	22.5	0
20	QPSK	150	400	20.95	20.92	20.92		
20	QPSK	150	425	20.92	20.92	20.92	22.5	0
20	QPSK	150	450	20.95	20.92	20.92		
20	QPSK	150	475	20.92	20.92	20.92	22.5	0
20	QPSK	150	500	20.95	20.92	20.92		
20	QPSK	150	525	20.92	20.92	20.92	22.5	0
20	QPSK	150	550	20.95	20.92	20.92		
20	QPSK	150	575	20.92	20.92	20.92	22.5	0
20	QPSK	150	600	20.95	20.92	20.92		
20	QPSK	150	625	20.92	20.92	20.92	22.5	0
20	QPSK	150	650	20.95	20.92	20.92		
20	QPSK	150	675	20.92	20.92	20.92	22.5	0
20	QPSK	150	700	20.95	20.92	20.92		
20	QPSK	150	725	20.92	20.92	20.92	22.5	0
20	QPSK	150	750	20.95	20.92	20.92		
20	QPSK	150	775	20.92	20.92	20.92	22.5	0
20	QPSK	150	800	20.95	20.92	20.92		
20	QPSK	150	825	20.92	20.92	20.92	22.5	0
20	QPSK	150	850	20.95	20.92	20.92		
20	QPSK	150	875	20.92	20.92	20.92	22.5	0
20	QPSK	150	900	20.95	20.92	20.92		
20	QPSK	150	925	20.92	20.92	20.92	22.5	0
20	QPSK	150	950	20.95	20.92	20.92		
20	QPSK	150	975	20.92	20.92	20.92	22.5	0
20	QPSK	150	1000	20.95	20.92	20.92		

Band 5 Ant1_ Standalone DS16

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (dBm)	Power (dBm)	Time-up (min)	MPR (dB)
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.		
10	QPSK	1	0	22.89	23.12	22.88	24	0
10	QPSK	1	25	22.92	23.01	22.92		
10	QPSK	1	49	22.88	22.93	22.88		
10	QPSK	25	0	22.88	23.01	22.88		
10	QPSK	25	24	22.88	22.92	22.88	24	0
10	QPSK	25	49	22.88	22.98	22.81		
10	QPSK	50	0	22.84	23.00	22.84		
10	QPSK	50	24	22.84	22.92	22.84		
10	QPSK	50	49	22.84	22.98	22.82	24	0
10	QPSK	75	0	22.84	23.00	22.84		
10	QPSK	75	24	22.84	22.92	22.84		
10	QPSK	75	49	22.84	22.98	22.82	24	0
10	QPSK	100	0	22.84	23.00	22.84		
10	QPSK	100	24	22.84	22.92	22.84		
10	QPSK	100	49	22.84	22.98	22.82	24	0
10	QPSK	125	0	22.84	23.00	22.84		
10	QPSK	125	24	22.84	22.92	22.84		
10	QPSK	125	49	22.84	22.98	22.82	24	0
10	QPSK	150	0	22.84	23.00	22.84		
10	QPSK	150	24	22.84	22.92	22.84		
10	QPSK	150	49	22.84	22.98	22.82	24	0
10	QPSK	175	0	22.84	23.00	22.84		
10	QPSK	175	24	22.84	22.92	22.84		
10	QPSK	175	49	22.84	22.98	22.82	24	0
10	QPSK	200	0	22.84	23.00	22.84		
10	QPSK	200	24	22.84	22.92	22.84		
10	QPSK	200	49	22.84	22.98	22.82	24	0
10	QPSK	225	0	22.84	23.00	22.84		
10	QPSK	225	24	22.84	22.92	22.84		
10	QPSK	225	49	22.84	22.98	22.82	24	0
10	QPSK	250	0	22.84	23.00	22.84		
10	QPSK	250	24	22.84	22.92	22.84		
10	QPSK	250	49	22.84	22.98	22.82	24	0



Band 12 Ant1_ Standalone DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.22	24.47	24.29				
10	QPSK	1	25	24.33	24.58	24.33				
10	QPSK	1	49	24.29	24.31	24.27		24	0	
10	QPSK	25	0	24.27	24.40	24.31				
10	QPSK	25	12	24.38	24.52	24.38				
10	QPSK	25	25	24.37	24.21	24.32				
10	QPSK	50	0	24.30	24.37	24.30				
10	16QAM	1	0	24.21	24.27	24.27				
10	16QAM	1	25	24.33	24.28	24.32				
10	16QAM	1	49	24.32	24.32	24.30				
10	16QAM	25	0	24.30	24.33	24.33				
10	16QAM	25	12	23.70	23.87	23.85			23	0
10	16QAM	25	25	23.89	23.74	23.73				
10	16QAM	50	0	24.18	24.21	24.18				
10	16QAM	1	0	24.22	24.17	24.25				
10	8QAM	1	25	24.27	24.24	24.28				
10	8QAM	1	49	24.29	24.20	24.28				
10	8QAM	25	0	23.77	23.80	23.83				
10	8QAM	25	12	23.89	23.86	23.87				
10	8QAM	25	25	23.90	23.91	23.91				
10	8QAM	50	0	23.87	23.81	23.83				
10	25QAM	1	25	20.56	20.66	20.66				
10	25QAM	1	49	20.70	20.73	20.65			21	4
10	25QAM	1	73	20.65	20.71	20.60				
10	25QAM	12	0	20.88	20.82	20.82				
10	25QAM	25	12	20.80	20.89	20.69				
10	25QAM	25	25	20.71	20.53	20.57				
10	25QAM	50	0	20.62	20.65	20.62				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.09	24.22	24.10				
5	QPSK	1	12	24.12	24.12	24.09				
5	QPSK	1	24	24.24	24.24	24.24				
5	QPSK	12	0	24.12	24.34	24.24				
5	QPSK	12	7	24.23	24.23	24.28				
5	QPSK	12	13	24.25	24.11	24.12				
5	QPSK	25	0	24.10	24.26	24.26				
5	16QAM	1	0	24.05	24.07	24.13				
5	16QAM	1	12	24.15	24.22	24.28				
5	16QAM	1	24	24.24	24.24	24.24				
5	16QAM	12	0	23.90	23.39	23.43				
5	16QAM	12	7	23.84	23.50	23.38				
5	16QAM	12	13	23.64	23.70	23.64				
5	16QAM	25	0	23.43	23.39	23.43				
5	8QAM	1	0	23.87	24.00	24.15				
5	8QAM	1	12	23.82	23.82	23.85				
5	8QAM	1	24	24.17	24.02	24.03				
5	8QAM	12	0	23.82	23.54	23.73				
5	8QAM	12	7	23.79	23.70	23.64				
5	8QAM	12	13	23.92	23.57	23.85				
5	8QAM	25	0	23.70	23.89	23.82				
5	25QAM	1	12	20.71	20.65	20.57				
5	25QAM	1	24	20.65	20.71	20.67				
5	25QAM	12	0	20.88	20.82	20.86				
5	25QAM	12	7	20.68	20.51	20.54				
5	25QAM	12	13	20.88	20.52	20.55				
5	25QAM	25	0	20.43	20.63	20.57				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.05	24.20	24.14				
3	QPSK	1	8	24.11	24.20	24.07				
3	QPSK	1	14	24.05	24.20	24.08				
3	QPSK	3	0	24.07	24.27	24.16				
3	QPSK	3	8	24.33	24.00	24.24				
3	QPSK	3	7	24.23	24.01	24.26				
3	QPSK	3	14	24.22	24.23	24.23				
3	16QAM	1	0	24.04	24.04	24.20				
3	16QAM	1	8	24.10	24.04	24.11				
3	16QAM	1	14	24.15	24.20	24.06				
3	16QAM	3	0	23.44	23.43	23.59				
3	16QAM	3	4	23.81	23.43	23.43				
3	16QAM	3	7	23.51	23.60	23.47				
3	16QAM	15	0	23.81	23.39	23.36				
3	8QAM	1	0	23.99	24.03	24.30				
3	8QAM	1	8	24.02	24.02	24.17				
3	8QAM	1	14	24.23	23.94	24.15				
3	8QAM	3	0	23.74	23.73	23.78				
3	8QAM	3	4	23.83	23.81	23.84				
3	8QAM	3	7	23.70	23.70	23.70				
3	8QAM	15	0	23.75	23.61	23.71				
3	25QAM	1	0	20.60	20.71	20.57				
3	25QAM	1	8	20.67	20.70	20.70				
3	25QAM	1	14	20.47	20.55	20.53				
3	25QAM	3	0	20.46	20.63	20.52				
3	25QAM	3	4	20.80	20.73	20.85				
3	25QAM	3	7	20.61	20.63	20.66				
3	25QAM	15	0	20.52	20.70	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.22	24.20	24.14				
1.4	QPSK	1	3	24.26	24.30	24.30				
1.4	QPSK	1	5	24.21	24.26	24.27				
1.4	QPSK	3	0	24.31	24.23	24.36				
1.4	QPSK	3	1	24.32	24.30	24.37				
1.4	QPSK	3	3	24.27	24.29	24.38				
1.4	16QAM	1	0	24.30	24.27	24.37				
1.4	16QAM	1	3	24.31	24.32	24.40				
1.4	16QAM	1	5	24.31	24.34	24.36				
1.4	16QAM	3	0	24.22	24.31	24.34				
1.4	16QAM	3	1	24.08	24.17	24.17				
1.4	16QAM	3	3	24.05	24.10	24.18				
1.4	16QAM	6	0	24.05	24.14	24.08				
1.4	16QAM	6	0	23.73	23.69	23.79				
1.4	8QAM	1	0	24.20	24.33	24.26				
1.4	8QAM	1	3	24.26	24.38	24.28				
1.4	8QAM	1	5	24.11	24.24	24.27				
1.4	8QAM	3	0	24.24	24.11	24.31				
1.4	8QAM	3	1	24.19	24.28	24.29				
1.4	8QAM	3	3	24.13	24.21	24.26				
1.4	8QAM	6	0	23.82	23.70	23.86				
1.4	25QAM	1	0	20.45	20.65	20.47				
1.4	25QAM	1	3	20.60	20.71	20.72				
1.4	25QAM	1	5	20.69	20.94	20.50				
1.4	25QAM	3	0	20.84	20.71	20.80				
1.4	25QAM	3	1	20.75	20.51	20.69				
1.4	25QAM	3	3	20.76	20.43	20.62				
1.4	25QAM	6	0	20.84	20.77	20.58				

Band 13 Ant1_ Standalone DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.89	22.89				
10	QPSK	1	25	22.89	22.89	22.89				
10	QPSK	1	49	22.81	22.81	22.81			24	0
10	QPSK	25	0	22.82	22.82	22.82				
10	QPSK	25	12	22.85	22.85	22.85				
10	QPSK	25	25	22.13	22.13	22.13				
10	QPSK	50	0	22.46	22.46	22.46				
10	16QAM	1	0	22.41	22.41	22.41				
10	16QAM	1	25	22.43	22.43	22.43				
10	16QAM	1	49	22.10	22.10	22.10				
10	16QAM	25	0	21.54	21.54	21.54				
10	16QAM	25	12	21.22	21.22	21.22				
10	16QAM	25	25	21.88	21.88	21.88				
10	16QAM	50	0	21.68	21.68	21.68				
10	8QAM	1	0	22.22	22.22	22.22				
10	8QAM	1	25	22.26	22.26	22.26				
10	8QAM	1	49	22.10	22.10	22.10				



Band 25 Ant1_Standalone DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.45	21.47	21.58				
15	QPSK	1	49	21.14	21.35	21.58	22.7	0		
20	QPSK	1	99	21.29	21.36	21.35				
20	QPSK	50	0	21.35	21.43	21.50				
20	QPSK	50	24	21.11	21.24	21.35	22.7	0		
20	QPSK	50	50	21.18	21.18	21.18				
20	QPSK	100	0	21.33	21.40	21.50				
20	16QAM	50	0	21.22	21.29	21.34				
20	16QAM	1	49	21.23	21.23	21.35	22.7	0		
20	16QAM	1	99	21.25	21.36	21.37				
20	16QAM	50	0	21.23	21.28	21.28				
20	16QAM	50	24	21.08	21.18	21.16	22.7	0		
20	16QAM	50	50	21.17	21.17	21.15				
20	16QAM	100	0	21.04	21.09	21.14				
20	64QAM	1	0	21.05	21.23	21.09				
20	64QAM	1	49	21.11	21.30	21.24	22.7	0		
20	64QAM	50	0	21.06	21.06	21.02				
20	64QAM	50	0	21.10	21.06	21.05				
20	64QAM	50	24	21.09	21.07	21.02	22.7	0		
20	64QAM	50	50	21.17	21.15	21.12				
20	256QAM	100	0	20.97	21.11	21.11				
20	256QAM	1	49	18.13	18.16	18.01	20	2.7		
20	256QAM	1	99	18.77	18.08	18.00				
20	256QAM	50	0	18.05	18.29	18.08				
20	256QAM	50	24	18.00	18.00	18.05	20	2.7		
20	256QAM	50	50	18.13	18.07	18.01				
20	256QAM	100	0	18.03	18.03	18.03				
Channel										
Frequency (MHz)										
15	QPSK	1	0	21.35	21.39	21.29				
15	QPSK	1	37	21.01	21.22	21.11	22.7	0		
15	QPSK	1	74	21.17	21.28	21.27				
15	QPSK	36	0	21.29	21.28	21.28				
15	QPSK	36	25	21.01	21.11	21.10	22.7	0		
15	QPSK	36	39	21.08	21.05	21.09				
15	QPSK	75	0	21.27	21.30	21.14				
15	16QAM	1	0	21.15	21.20	21.29				
15	16QAM	1	37	21.13	21.09	21.26	22.7	0		
15	16QAM	1	74	21.05	21.29	21.02				
15	16QAM	36	0	21.14	21.21	21.22				
15	16QAM	36	25	20.95	21.09	21.04	22.7	0		
15	16QAM	36	39	21.06	21.03	21.04				
15	16QAM	75	0	20.90	21.13	21.05				
15	64QAM	1	0	20.97	21.08	20.99				
15	64QAM	1	37	21.06	21.19	21.07	22.7	0		
15	64QAM	1	74	21.11	21.15	21.07				
15	64QAM	36	0	21.04	20.97	20.93	22.7	0		
15	64QAM	36	25	20.98	20.99	20.98				
15	64QAM	36	39	21.05	20.94	21.01				
15	64QAM	75	0	20.88	21.02	21.01				
15	256QAM	1	0	18.76	18.03	18.03	20	2.7		
15	256QAM	1	37	18.05	18.85	18.79				
15	256QAM	1	74	18.71	18.78	18.67				
15	256QAM	36	0	18.00	18.00	18.00	20	2.7		
15	256QAM	36	25	18.00	18.12	18.08				
15	256QAM	36	39	18.09	18.89	18.79				
15	256QAM	75	0	18.04	18.84	18.85				
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.30	21.40	21.30				
10	QPSK	1	25	21.08	21.24	21.11	22.7	0		
10	QPSK	1	49	21.14	21.21	21.28				
10	QPSK	12	0	21.04	21.10	21.05				
10	QPSK	25	12	21.04	21.12	21.05	22.7	0		
10	QPSK	25	25	21.07	21.06	21.12				
10	16QAM	1	0	21.27	21.29	21.04				
10	16QAM	1	0	21.16	21.22	21.20	22.7	0		
10	16QAM	1	24	21.18	21.10	21.24				
10	16QAM	1	49	21.03	21.29	21.04				
10	16QAM	25	0	21.16	21.18	21.13	22.7	0		
10	16QAM	25	12	20.98	21.12	21.09				
10	16QAM	25	25	21.05	21.13	21.05				
10	16QAM	50	0	20.94	21.11	21.04				
10	64QAM	1	0	21.00	21.17	20.98	22.7	0		
10	64QAM	1	24	21.04	21.17	21.12				
10	64QAM	1	49	21.15	21.20	21.13				
10	64QAM	25	0	21.01	20.97	20.92	22.7	0		
10	64QAM	25	12	20.96	20.98	20.98				
10	64QAM	25	25	21.05	20.93	21.01				
10	64QAM	50	0	20.83	21.01	21.05				
10	256QAM	1	0	18.74	18.87	18.88	20	2.7		
10	256QAM	1	24	18.86	18.89	18.72				
10	256QAM	1	49	18.64	18.86	18.69				
10	256QAM	12	0	18.00	18.00	18.04	20	2.7		
10	256QAM	12	12	18.91	18.94	18.82				
10	256QAM	25	0	18.87	18.89	18.88				
10	256QAM	25	0	18.91	18.81	18.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.32	21.34	21.30				
5	QPSK	1	12	21.04	21.20	21.09	22.7	0		
5	QPSK	1	24	21.16	21.31	21.09				
5	QPSK	12	0	21.04	21.10	21.05				
5	QPSK	12	7	21.06	21.11	21.12	22.7	0		
5	QPSK	12	13	21.05	21.10	21.07				
5	QPSK	25	0	21.05	21.20	21.00				
5	16QAM	1	0	21.09	21.14	21.19				
5	16QAM	1	12	21.17	21.11	21.24	22.7	0		
5	16QAM	1	24	21.18	21.08	21.08				
5	16QAM	12	0	21.09	21.16	21.14				
5	16QAM	12	7	21.00	21.08	21.05	22.7	0		
5	16QAM	12	13	21.00	21.05	21.06				
5	16QAM	25	0	20.91	21.07	21.06				
5	64QAM	1	0	20.97	21.08	20.99	22.7	0		
5	64QAM	1	12	21.00	21.18	21.11				
5	64QAM	1	24	21.17	21.20	21.11				
5	64QAM	12	0	21.00	20.94	20.93	22.7	0		
5	64QAM	12	7	21.00	20.99	20.98				
5	64QAM	12	13	21.08	20.89	21.06				
5	64QAM	25	0	20.84	21.01	21.01				
5	256QAM	1	0	18.76	18.95	18.88	20	2.7		
5	256QAM	1	12	18.99	18.95	18.66				
5	256QAM	1	24	18.53	18.87	18.84				
5	256QAM	12	0	18.97	18.96	18.81	20	2.7		
5	256QAM	12	7	18.95	19.10	18.72				
5	256QAM	25	0	18.90	18.86	18.86				
5	256QAM	25	0	19.12	19.05	18.72				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.30	21.32	21.12				
3	QPSK	1	8	21.00	21.20	21.16	22.7	0		
3	QPSK	1	14	21.16	21.23	21.26				
3	QPSK	3	0	21.04	21.14	21.15				
3	QPSK	3	4	20.99	21.14	21.09	22.7	0		
3	QPSK	3	7	21.13	21.05	21.03				
3	QPSK	15	0	21.09	21.28	21.13				
3	16QAM	1	0	21.12	21.14	21.23				
3	16QAM	1	8	21.12	21.15	21.28	22.7	0		
3	16QAM	1	14	21.14	21.30	21.07				
3	16QAM	3	0	21.14	21.14	21.17				
3	16QAM	3	4	20.99	21.08	21.07	22.7	0		
3	16QAM	15	0	21.06	21.09	21.09				
3	64QAM	1	0	20.97	21.13	21.04	22.7	0		
3	64QAM	1	8	21.05	21.18	21.14				
3	64QAM	1	14	21.16	21.					



Band 66 Ant1_ Standalone DSI6

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.37	21.39	21.33		
20	QPSK	1	49	21.10	21.11	21.08	22.9	0
20	QPSK	1	99	21.23	21.24	21.24		
20	QPSK	50	0	21.31	21.32	21.25		
20	QPSK	50	24	21.08	21.09	21.09		
20	QPSK	50	50	21.17	21.21	21.04	22.9	0
20	QPSK	100	0	21.21	21.23	21.29		
20	16QAM	1	0	21.20	21.20	21.20		
20	16QAM	1	49	21.15	21.20	21.26	22.9	0
20	16QAM	1	99	21.24	21.27	21.31		
20	16QAM	50	0	21.10	21.10	21.13		
20	16QAM	50	24	21.08	21.09	21.07	22.9	0
20	16QAM	50	50	21.02	21.07	21.17		
20	64QAM	1	0	20.97	21.21	21.06		
20	64QAM	1	49	21.09	21.21	21.16	22.9	0
20	64QAM	1	99	21.20	21.20	21.17		
20	64QAM	50	0	21.05	21.04	21.02		
20	64QAM	50	24	21.02	20.94	20.95	22.9	0
20	64QAM	50	50	21.05	21.09	21.03		
20	64QAM	100	0	21.02	21.03	21.10		
20	256QAM	1	0	18.95	18.91	18.92		
20	256QAM	1	49	18.90	18.86	18.90	20	2.0
20	256QAM	1	99	18.73	18.64	18.92		
20	256QAM	50	0	18.86	18.92	18.77		
20	256QAM	50	24	18.87	18.83	18.90	20	2.0
20	256QAM	50	50	18.88	18.83	18.92		
20	256QAM	100	0	18.78	18.82	18.90		
Channel								
Frequency (MHz)								
15	QPSK	1	0	17.25	17.26	17.21		
15	QPSK	1	39	17.03	17.20	17.17	22.9	0
15	QPSK	1	74	17.18	17.23	17.21		
15	QPSK	36	0	17.19	17.20	17.17		
15	QPSK	36	20	17.07	17.16	17.08	22.9	0
15	QPSK	36	39	17.11	17.08	17.03		
15	QPSK	75	0	17.14	17.20	17.22		
15	16QAM	1	0	17.11	17.20	17.18		
15	16QAM	1	39	17.11	17.17	17.15	22.9	0
15	16QAM	1	74	17.09	17.27	17.21		
15	16QAM	36	0	17.02	17.07	17.08		
15	16QAM	36	20	16.93	16.99	16.94	22.9	0
15	16QAM	36	39	17.07	17.08	17.03		
15	16QAM	75	0	17.17	17.08	17.08		
15	64QAM	1	0	17.07	17.13	17.02		
15	64QAM	1	39	16.94	17.11	17.06	22.9	0
15	64QAM	1	74	17.07	17.15	17.07		
15	64QAM	36	0	16.93	16.97	16.97		
15	64QAM	36	20	16.99	16.96	16.94	22.9	0
15	64QAM	36	39	16.95	16.95	16.97		
15	64QAM	75	0	16.92	16.91	16.98		
15	256QAM	1	0	18.72	18.76	18.86		
15	256QAM	1	39	18.59	18.60	18.84	20	2.0
15	256QAM	1	74	18.62	18.42	18.73		
15	256QAM	36	0	18.72	18.42	18.76		
15	256QAM	36	20	18.54	18.58	18.78	20	2.0
15	256QAM	36	39	18.85	18.82	18.83		
15	256QAM	75	0	18.87	18.83	18.71		
Channel								
Frequency (MHz)								
10	QPSK	1	0	17.22	17.24	17.25		
10	QPSK	1	25	16.96	17.20	17.17	22.9	0
10	QPSK	1	49	17.13	17.20	17.20		
10	QPSK	25	0	17.25	17.27	17.18		
10	QPSK	25	12	17.00	17.11	17.08	22.9	0
10	QPSK	25	25	17.09	17.10	16.92		
10	16QAM	1	0	17.10	17.20	17.18		
10	16QAM	1	25	17.06	17.16	17.14	22.9	0
10	16QAM	1	49	17.14	17.18	17.17		
10	16QAM	25	0	17.01	17.12	17.09		
10	16QAM	25	12	16.92	16.96	16.93	22.9	0
10	16QAM	25	25	16.98	17.01	17.02		
10	16QAM	50	0	16.95	17.04	17.03		
10	64QAM	1	0	16.91	17.07	16.92		
10	64QAM	1	25	17.00	17.12	17.08	22.9	0
10	64QAM	1	49	17.07	17.18	17.07		
10	64QAM	25	0	16.91	16.96	16.97		
10	64QAM	25	12	16.92	16.97	16.98	22.9	0
10	64QAM	25	25	16.91	16.90	16.99		
10	64QAM	50	0	16.98	16.97	16.99		
10	256QAM	1	0	18.84	18.68	18.74		
10	256QAM	1	25	18.74	18.70	18.88	20	2.0
10	256QAM	1	49	18.53	18.44	18.73		
10	256QAM	25	0	18.63	18.62	18.74		
10	256QAM	25	12	18.62	18.63	18.75	20	2.0
10	256QAM	25	25	18.72	18.77	18.81		
10	256QAM	50	0	18.76	18.67	18.64		
Channel								
Frequency (MHz)								
5	QPSK	1	0	17.23	17.23	17.25		
5	QPSK	1	12	16.96	17.21	17.16	22.9	0
5	QPSK	1	24	17.17	17.22	17.27		
5	QPSK	12	0	17.21	17.26	17.17		
5	QPSK	12	7	17.00	17.08	17.01	22.9	0
5	QPSK	12	13	17.11	17.13	16.99		
5	QPSK	25	0	17.08	17.24	17.17		
5	16QAM	1	0	17.08	17.24	17.20	22.9	0
5	16QAM	1	12	17.14	17.19	17.16		
5	16QAM	1	24	17.16	17.15	17.12		
5	16QAM	12	0	17.00	17.07	17.01		
5	16QAM	12	7	16.99	17.00	16.98	22.9	0
5	16QAM	12	13	16.98	17.07	17.07		
5	16QAM	25	0	16.90	17.11	17.06		
5	64QAM	1	0	16.96	17.15	16.98		
5	64QAM	1	12	16.95	17.09	17.04	22.9	0
5	64QAM	1	24	17.08	17.10	17.03		
5	64QAM	12	0	16.91	16.96	16.98		
5	64QAM	12	7	16.96	16.99	16.99	22.9	0
5	64QAM	12	13	16.95	16.93	16.95		
5	64QAM	25	0	16.93	16.93	17.02		
5	256QAM	1	0	18.78	18.67	18.79		
5	256QAM	1	12	18.59	18.47	18.60	20	2.0
5	256QAM	1	24	18.52	18.44	18.76		
5	256QAM	12	0	18.63	18.76	18.68		
5	256QAM	12	7	18.52	18.51	18.77	20	2.0
5	256QAM	12	13	18.72	18.71	18.88		
5	256QAM	25	0	18.54	18.74	18.61		
Channel								
Frequency (MHz)								
3	QPSK	1	0	21.12	21.24	21.19		
3	QPSK	1	8	21.02	21.24	21.12	22.9	0
3	QPSK	1	14	21.13	21.21	21.24		
3	QPSK	8	0	21.18	21.20	21.11		
3	QPSK	8	4	20.95	21.10	20.96	22.9	0
3	QPSK	8	7	21.08	21.13	20.92		
3	QPSK	15	0	21.07	21.17	21.16		
3	16QAM	1	0	21.11	21.20	21.16		
3	16QAM	1	8	21.14	21.11	21.17	22.9	0
3	16QAM	1	14	21.13	21.20	21.05		
3	16QAM	8	0	20.96	21.10	21.02		
3	16QAM	8	4	20.99	20.96	20.93	22.9	0
3	16QAM	8	7	20.95	21.00	21.02		
3	16QAM	15	0	20.96	21.10	21.03		
3	64QAM	1	0	20.98	21.10	20.97		
3	64QAM	1	8	21.01	21.07	21.08	22.9	0
3	64QAM	1	14	21.07	21.13	21.12		
3	64QAM	8	0	20.92	20.99	20.99		
3	64QAM	8	4	20.95	20.97	20.96	22.9	0
3	64QAM	8	7	20.98	20.99	20.90		
3	256QAM	1	0	18.75	18.83	18.81		
3	256QAM	1	8	18.63	18.60	18.73	20	2.0
3	256QAM	1	14	18.56	18.45	18.68		
3	256QAM	8	0	18.95	18.92	18.84		
3	256QAM	8	4	18.87	18.74	18.81	20	2.0
3	256QAM	8	7	18.87	18.87	18.81		
3	256QAM	15	0	18.71	18.81	18.76		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	21.30	21.30	21.23		
1.4	QPSK	1	3	20.98	21.20	21.18	22.9	0
1.4	QPSK	1	5	21.15	21.25	21.24		
1.4	QPSK	3	0	21.20	21.20	21.17		
1.4	QPSK	3	1	21.02	21.07	21.03		
1.4	QPSK	6	0	21.11	21.10	20.96		
1.4	QPSK	6	3	21.11	21.10	21.03	22.9	0
1.4	16QAM	1	0	21.08	21.24	21.19		
1.4	16QAM	1	3	21.09	21.17	21.17		
1.4	16QAM	1	5	21.14	21.20	21.18	22.9	0
1.4	16QAM	3	0	21.02	21.14	20.99		
1.4	16QAM	3	1	20.95	21.04	20.99		
1.4	16QAM	3	1	20.99	21.05	21.01		
1.4	16QAM	6	0	20.96	21.03	21.09	22.9	0
1.4	64QAM	1	0	20.95	21.14	20.97		
1.4	64QAM	1	3	20.97	21.07	21.03		
1.4	64QAM	1	5	21.14	21.10	21.08	22.9	0
1.4	64QAM	3	0	20.90	20.96	20.96		
1.4	64QAM	3	1	20.97	20.91	20.93		
1.4	64QAM	3	1	21.02	20.93	20.91	22.9	0
1.4	64QAM	6	0	20.99	20.90	20.96		
1.4	256QAM	1	0	18.17	18.12	18.24		
1.4	256QAM	1	3	18.06	18.11	18.06		
1.4	256QAM	1	5	18.06	18.06	18.00	20	2.0
1.4	256QAM	3	0	18.01	18.04	18.01		
1.4	256QAM	3	1	18.28	18.16			



Band 12 Ant1_DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.22	24.47	24.29				
10	QPSK	1	25	24.33	24.58	24.33				
10	QPSK	1	49	24.29	24.31	24.27			25	0
10	QPSK	25	0	24.27	24.40	24.31				
10	QPSK	25	25	24.38	24.38	24.35				
10	QPSK	25	25	24.37	24.21	24.32			24	0
10	QPSK	50	0	24.30	24.37	24.30				
10	16QAM	1	0	24.21	24.27	24.27				
10	16QAM	1	25	24.33	24.28	24.32			25	0
10	16QAM	1	49	24.32	24.32	24.30				
10	16QAM	25	0	24.30	23.83	23.85				
10	16QAM	25	12	23.70	23.87	23.85			25	0
10	16QAM	25	25	23.89	23.74	23.73				
10	16QAM	50	0	24.02	24.21	24.03				
10	64QAM	1	0	24.22	24.17	24.25				
10	64QAM	1	25	24.27	24.24	24.28			25	0
10	64QAM	1	49	24.29	24.20	24.28				
10	64QAM	25	0	23.77	23.80	23.83				
10	64QAM	25	12	23.89	23.86	23.87			25	0
10	64QAM	25	25	23.90	23.91	23.91				
10	256QAM	1	25	20.70	20.73	20.65			21	4
10	256QAM	1	49	20.55	20.71	20.60				
10	256QAM	25	0	20.60	20.66	20.64				
10	256QAM	25	12	20.80	20.69	20.69			21	4
10	256QAM	25	25	20.71	20.53	20.57				
10	256QAM	50	0	20.60	20.63	20.60				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.09	24.22	24.10				
5	QPSK	1	25	24.11	24.24	24.09			25	0
5	QPSK	1	24	24.24	24.24	24.24				
5	QPSK	12	0	24.12	24.34	24.24				
5	QPSK	12	7	24.29	24.28	24.28			24	0
5	QPSK	12	13	24.25	24.11	24.12				
5	QPSK	25	0	24.10	24.26	24.26				
5	16QAM	1	0	24.05	24.07	24.13				
5	16QAM	1	12	24.15	24.22	24.28			25	0
5	16QAM	1	24	24.24	24.24	24.24				
5	16QAM	12	0	23.90	23.39	23.43				
5	16QAM	12	7	23.84	23.50	23.38			25	0
5	16QAM	12	13	23.64	23.69	23.54				
5	16QAM	25	0	23.43	23.39	23.43				
5	64QAM	1	0	23.87	24.00	24.15			25	0
5	64QAM	1	25	24.00	24.00	24.00				
5	64QAM	1	24	24.17	24.02	24.03				
5	64QAM	12	0	23.82	23.54	23.73			25	0
5	64QAM	12	7	23.79	23.70	23.65				
5	64QAM	12	13	23.82	23.57	23.65			25	0
5	64QAM	25	0	23.70	23.59	23.62				
5	256QAM	1	25	18.84	18.88	18.84			23	1
5	256QAM	1	49	18.84	18.88	18.84				
5	256QAM	1	12	18.80	18.82	18.82			19	5
5	256QAM	1	24	18.64	18.89	18.87				
5	256QAM	12	0	18.66	18.66	18.69			19	5
5	256QAM	12	7	18.70	18.87	18.85				
5	256QAM	12	13	18.78	18.80	18.84				
5	256QAM	25	0	18.81	18.87	18.85				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.05	24.20	24.14				
3	QPSK	1	25	24.11	24.25	24.07			25	0
3	QPSK	1	14	24.05	24.20	24.08				
3	QPSK	3	0	24.07	24.27	24.16				
3	QPSK	3	7	24.33	24.08	24.24			25	0
3	QPSK	3	7	24.23	24.01	24.26				
3	16QAM	1	0	24.00	24.00	24.00				
3	16QAM	1	8	24.10	24.04	24.11			25	0
3	16QAM	1	8	24.15	24.20	24.06				
3	16QAM	8	0	23.44	23.43	23.59				
3	16QAM	8	4	23.81	23.43	23.43			25	0
3	16QAM	15	0	23.51	23.60	23.47				
3	64QAM	1	0	23.89	24.03	24.30			25	0
3	64QAM	1	8	24.02	24.02	24.17				
3	64QAM	1	14	24.23	23.94	24.15				
3	64QAM	8	0	23.74	23.73	23.78			25	0
3	64QAM	8	4	23.83	23.81	23.84				
3	64QAM	8	7	23.70	23.78	23.70				
3	64QAM	15	0	23.75	23.61	23.71				
3	256QAM	1	25	20.60	20.71	20.57			21	4
3	256QAM	1	14	20.47	20.55	20.53				
3	256QAM	8	0	20.48	20.63	20.52			21	4
3	256QAM	8	4	20.80	20.73	20.85				
3	256QAM	8	7	20.81	20.63	20.66				
3	256QAM	15	0	20.52	20.78	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.22	24.20	24.14				
1.4	QPSK	1	3	24.26	24.35	24.35				
1.4	QPSK	1	5	24.21	24.26	24.27			25	0
1.4	QPSK	3	0	24.31	24.23	24.38				
1.4	QPSK	3	1	24.32	24.30	24.37				
1.4	QPSK	3	3	24.27	24.29	24.38			25	0
1.4	16QAM	1	0	24.30	24.27	24.37				
1.4	16QAM	1	3	24.31	24.32	24.40				
1.4	16QAM	3	0	24.08	24.17	24.17			25	0
1.4	16QAM	3	1	24.05	24.10	24.18				
1.4	16QAM	3	1	24.22	24.31	24.34				
1.4	16QAM	6	0	23.73	23.69	23.79			25	0
1.4	64QAM	1	0	24.20	24.33	24.26				
1.4	64QAM	1	3	24.26	24.38	24.28				
1.4	64QAM	1	5	24.11	24.24	24.27			25	0
1.4	64QAM	3	0	24.24	24.11	24.31				
1.4	64QAM	3	1	24.19	24.28	24.29				
1.4	64QAM	3	3	24.13	24.21	24.26			25	0
1.4	64QAM	6	0	23.82	23.70	23.86				
1.4	256QAM	1	25	20.45	20.65	20.47			21	4
1.4	256QAM	1	3	20.80	20.71	20.72				
1.4	256QAM	1	5	20.89	20.94	20.90			21	4
1.4	256QAM	3	0	20.84	20.71	20.80				
1.4	256QAM	3	1	20.75	20.51	20.69				
1.4	256QAM	3	3	20.76	20.43	20.62			21	4
1.4	256QAM	6	0	20.84	20.77	20.58				

Band 13 Ant1_DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.89	22.89				
10	QPSK	1	25	22.89	22.89	22.89				
10	QPSK	1	49	22.81	22.81	22.81			24	0
10	QPSK	25	0	22.92	22.92	22.92				
10	QPSK	25	12	22.88	22.88	22.88				
10	QPSK	25	25	22.13	22.13	22.13			24	0
10	QPSK	50	0	22.10	22.10	22.10				
10	16QAM	1	0	22.82	22.82	22.82				
10	16QAM	1	25	22.43	22.43	22.43				
10	16QAM	1	49	22.10	22.10	22.10				
10	16QAM	25	0	21.54	21.54	21.54				
10	16QAM	25	12	21.22	21.22	21.22			23	1
10	16QAM	25	25	21.88	21.88	21.88				
10	16QAM	50	0	21.08	21.08	21.08				
10	64QAM	1	0	22.22	22.22	22.22				
10	64QAM	1	25	22.36	22.36	22.36			24	0
10	64QAM	1	49	21.87	21.87	21.87				
10	64QAM	25	0	21.56	21.56	21.56			23	1
10	64QAM	25	12	21.21	21.21	21.21				
10	64QAM	25	25	21.02						



Band 25 Ant1_DS16 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up limit (min)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.06	20.12	20.08				
20	QPSK	1	49	19.92	19.98	19.94	21.2	0		
20	QPSK	1	99	19.82	19.93	19.95				
20	QPSK	50	0	19.97	19.98	20.01				
20	QPSK	50	24	19.83	19.87	19.84	21.2	0		
20	QPSK	50	50	19.84	19.88	19.79				
20	QPSK	100	0	19.87	19.93	19.89				
20	16QAM	0	20.04	20.04	20.07					
20	16QAM	1	49	20.07	20.03	19.98	21.2	0		
20	16QAM	1	99	20.03	20.06	20.02				
20	16QAM	50	0	20.05	20.09	20.10				
20	16QAM	50	24	19.83	20.00	20.21	21.2	0		
20	16QAM	50	50	19.89	19.98	19.90				
20	16QAM	100	0	19.87	19.97	19.97				
20	16QAM	100	0	19.86	20.04	19.89				
20	16QAM	1	49	19.88	20.09	20.03	21.2	0		
20	16QAM	1	99	19.88	19.92	19.81				
20	16QAM	50	0	19.86	19.92	19.89				
20	16QAM	50	24	19.80	19.88	19.79	21.2	0		
20	16QAM	50	50	19.84	19.93	19.86				
20	16QAM	100	0	19.84	19.94	19.94				
20	16QAM	100	0	19.83	19.97	19.97				
20	256QAM	1	49	19.87	19.87	19.88	20	1.2		
20	256QAM	1	99	18.77	19.08	18.90				
20	256QAM	50	0	19.05	19.05	19.08				
20	256QAM	50	24	18.00	19.09	18.95	20	1.2		
20	256QAM	50	50	19.13	19.27	18.91				
20	256QAM	100	0	19.03	19.03	19.07				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.63	18.74	18.66				
15	QPSK	1	37	19.81	19.84	19.85	21.2	0		
15	QPSK	1	74	19.47	19.48	19.53				
15	QPSK	36	0	19.38	19.88	19.64				
15	QPSK	36	20	19.40	19.50	19.42	21.2	0		
15	QPSK	36	39	19.52	19.53	19.59				
15	QPSK	75	0	19.49	19.52	19.52				
15	16QAM	1	49	19.81	19.89	19.89	21.2	0		
15	16QAM	1	99	19.83	19.82	19.80				
15	16QAM	50	0	19.85	19.89	19.88				
15	16QAM	50	24	19.43	19.59	19.69	21.2	0		
15	16QAM	50	50	19.50	19.59	19.59				
15	16QAM	100	0	19.44	19.51	19.55				
15	16QAM	100	0	19.48	19.61	19.51	21.2	0		
15	16QAM	1	49	19.48	19.79	19.67				
15	16QAM	1	99	19.72	19.67	19.63				
15	16QAM	50	0	19.50	19.43	19.40	21.2	0		
15	16QAM	50	24	19.44	19.44	19.42				
15	16QAM	50	50	19.53	19.54	19.54				
15	16QAM	100	0	19.64	19.52	19.57	21.2	0		
15	256QAM	1	49	19.76	19.76	19.78	20	1.2		
15	256QAM	1	99	19.05	19.85	18.79				
15	256QAM	50	0	18.71	18.78	18.87				
15	256QAM	50	24	18.00	19.12	18.88	20	1.2		
15	256QAM	50	50	18.69	18.89	18.79				
15	256QAM	100	0	18.04	18.84	18.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.60	18.60	18.60				
5	QPSK	1	25	19.64	19.52	19.44	21.2	0		
5	QPSK	1	49	19.56	19.52	19.54				
5	QPSK	12	0	19.54	19.54	19.54				
5	QPSK	25	12	19.40	19.45	19.44	21.2	0		
5	QPSK	25	25	19.53	19.44	19.42				
5	16QAM	1	49	19.81	19.83	19.83	21.2	0		
5	16QAM	1	0	19.66	19.70	19.53				
5	16QAM	1	24	19.68	19.67	19.60				
5	16QAM	50	0	19.72	19.73	19.69				
5	16QAM	50	12	19.42	19.60	19.59	21.2	0		
5	16QAM	50	25	19.50	19.48	19.38				
5	16QAM	100	0	19.49	19.59	19.52				
5	16QAM	100	0	19.48	19.67	19.50	21.2	0		
5	16QAM	1	49	19.50	19.68	19.65				
5	16QAM	1	99	19.66	19.68	19.60				
5	16QAM	25	0	19.48	19.46	19.44	21.2	0		
5	16QAM	25	12	19.45	19.47	19.49				
5	16QAM	25	25	19.59	19.63	19.59				
5	16QAM	50	0	19.64	19.56	19.50				
5	256QAM	1	25	19.74	19.54	19.59	20	1.2		
5	256QAM	1	49	18.96	18.89	18.72				
5	256QAM	1	99	18.64	18.86	18.69				
5	256QAM	12	0	19.00	19.00	19.04				
5	256QAM	25	12	18.91	19.04	18.82	20	1.2		
5	256QAM	25	25	18.87	18.89	18.88				
5	256QAM	50	0	18.91	18.81	18.85				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.63	18.60	18.63				
3	QPSK	1	12	19.62	19.53	19.48	21.2	0		
3	QPSK	1	24	19.47	19.51	19.54				
3	QPSK	12	0	19.54	19.54	19.54				
3	QPSK	12	7	19.38	19.50	19.45	21.2	0		
3	QPSK	12	13	19.56	19.48	19.38				
3	QPSK	25	0	19.45	19.48	19.55				
3	16QAM	1	0	19.67	19.70	19.56	21.2	0		
3	16QAM	1	12	19.65	19.65	19.61				
3	16QAM	1	24	19.48	19.62	19.67				
3	16QAM	12	0	19.68	19.70	19.66				
3	16QAM	12	7	19.41	19.62	19.64	21.2	0		
3	16QAM	12	13	19.47	19.50	19.48				
3	16QAM	25	0	19.50	19.58	19.67				
3	16QAM	1	0	19.45	19.55	19.51	21.2	0		
3	16QAM	1	12	19.52	19.71	19.62				
3	16QAM	1	24	19.74	19.73	19.62				
3	16QAM	12	0	19.48	19.39	19.36	21.2	0		
3	16QAM	12	7	19.48	19.51	19.43				
3	16QAM	12	13	19.51	19.63	19.53				
3	16QAM	25	0	19.62	19.50	19.50				
3	16QAM	15	0	19.76	19.59	19.68	20	1.2		
3	256QAM	1	12	19.59	19.59	19.66				
3	256QAM	1	24	18.53	18.87	18.84				
3	256QAM	12	0	19.37	19.06	18.81				
3	256QAM	12	7	18.95	19.10	18.72	20	1.2		
3	256QAM	12	13	18.90	18.86	18.86				
3	256QAM	25	0	19.12	19.05	18.72				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.69	19.71	19.65				
1.4	QPSK	1	8	19.65	19.52	19.41	21.2	0		
1.4	QPSK	1	14	19.53	19.46	19.52				
1.4	QPSK	3	0	19.52	19.70	19.61				
1.4	QPSK	3	4	19.47	19.46	19.41	21.2	0		
1.4	QPSK	3	7	19.57	19.52	19.40				
1.4	QPSK	15	0	19.45	19.61	19.58				
1.4	16QAM	1	0	19.68	19.72	19.58	21.2	0		
1.4	16QAM	1	8	19.70	19.59	19.56				
1.4	16QAM	3	0	19.60	19.68	19.66				
1.4	16QAM	3	4	19.47	19.61	19.58	21.2	0		
1.4	16QAM	3	7	19.48	19.56	19.52				
1.4	16QAM	15	0	19.46	19.54	19.52				
1.4	16QAM	1	0	19.42	19.40	19.40	21.2	0		
1.4	16QAM	1	8	19.47	19.71	19.62				
1.4	16QAM	1	14	19.69	19.67	19.65				
1.4	16QAM	3	0	19.46	19.44	19.38	21.2	0		
1.4	16QAM									



Band 66 Ant1_DSi6 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Turn-up (min)	APR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.82	19.82	19.79	21.4	0		
20	QPSK	1	49	19.78	19.78	19.81				
20	QPSK	1	99	19.89	19.84	19.84				
20	QPSK	50	0	19.71	19.82	19.83	21.4	0		
20	QPSK	50	24	19.71	19.82	19.73				
20	QPSK	50	50	19.84	19.84	19.75				
20	QPSK	100	0	19.74	19.77	19.73				
20	16QAM	1	0	19.73	19.79	19.83	21.4	0		
20	16QAM	1	49	19.82	19.83	19.87				
20	16QAM	1	99	19.80	19.74	19.82				
20	16QAM	50	0	19.85	19.79	19.81				
20	16QAM	50	24	19.83	19.74	19.72	21.4	0		
20	16QAM	50	50	19.72	19.86	19.71				
20	16QAM	100	0	19.85	19.81	19.71				
20	64QAM	1	0	19.83	19.80	19.78				
20	64QAM	1	49	19.89	19.86	19.85	21.4	0		
20	64QAM	1	99	19.83	19.87	19.87				
20	64QAM	50	0	19.87	19.72	19.82				
20	64QAM	50	24	19.71	19.86	19.78	21.4	0		
20	64QAM	50	50	19.85	19.71	19.88				
20	256QAM	1	0	19.89	19.74	19.80				
20	256QAM	1	49	19.00	19.86	19.90	20	1.4		
20	256QAM	1	99	19.73	19.84	19.92				
20	256QAM	50	0	19.86	19.82	19.87				
20	256QAM	50	24	19.87	19.83	19.90	20	1.4		
20	256QAM	50	50	19.88	19.83	19.92				
20	256QAM	100	0	19.78	19.82	19.88				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.87	19.79	19.87	21.4	0		
15	QPSK	1	39	19.85	19.86	19.82				
15	QPSK	1	74	19.84	19.79	19.73				
15	QPSK	36	0	19.58	19.77	19.81	21.4	0		
15	QPSK	36	20	19.85	19.86	19.82				
15	QPSK	36	39	19.53	19.72	19.66				
15	QPSK	75	0	19.80	19.71	19.81	21.4	0		
15	16QAM	1	0	19.84	19.86	19.89				
15	16QAM	1	37	19.59	19.73	19.55	21.4	0		
15	16QAM	1	74	19.49	19.72	19.72				
15	16QAM	36	0	19.59	19.68	19.76	21.4	0		
15	16QAM	36	20	19.58	19.61	19.69				
15	16QAM	36	39	19.83	19.86	19.82				
15	16QAM	75	0	19.97	19.73	19.80	21.4	0		
15	64QAM	1	0	19.87	19.89	19.87				
15	64QAM	1	37	19.56	19.71	19.78	21.4	0		
15	64QAM	1	74	19.74	19.65	19.80				
15	64QAM	36	0	19.55	19.69	19.59	21.4	0		
15	64QAM	36	20	19.58	19.70	19.78				
15	64QAM	36	39	19.57	19.55	19.51				
15	64QAM	75	0	19.84	19.89	19.88	21.4	0		
15	256QAM	1	0	19.72	19.70	19.88				
15	256QAM	1	37	19.59	19.59	19.84	20	1.4		
15	256QAM	1	74	19.82	19.42	19.73				
15	256QAM	36	0	19.72	19.45	19.76				
15	256QAM	36	20	19.54	19.58	19.78	20	1.4		
15	256QAM	36	39	19.85	19.82	19.83				
15	256QAM	75	0	19.87	19.83	19.71				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.75	19.78	19.78	21.4	0		
10	QPSK	1	25	19.82	19.68	19.55				
10	QPSK	1	49	19.77	19.70	19.70				
10	QPSK	25	0	19.63	19.66	19.68	21.4	0		
10	QPSK	25	12	19.56	19.71	19.80				
10	QPSK	25	24	19.63	19.71	19.70				
10	QPSK	50	0	19.84	19.71	19.87	21.4	0		
10	16QAM	1	0	19.59	19.70	19.79				
10	16QAM	1	25	19.87	19.78	19.56	21.4	0		
10	16QAM	1	49	19.84	19.66	19.76				
10	16QAM	25	0	19.58	19.60	19.72	21.4	0		
10	16QAM	25	12	19.87	19.81	19.84				
10	16QAM	25	24	19.82	19.86	19.81				
10	16QAM	50	0	19.55	19.73	19.85				
10	64QAM	1	0	19.83	19.86	19.85	21.4	0		
10	64QAM	1	25	19.87	19.72	19.71				
10	64QAM	1	49	19.78	19.72	19.59				
10	64QAM	25	0	19.59	19.69	19.47	21.4	0		
10	64QAM	25	12	19.59	19.70	19.71				
10	64QAM	25	24	19.53	19.60	19.54				
10	64QAM	50	0	19.54	19.63	19.47				
10	256QAM	1	0	19.84	19.69	19.72				
10	256QAM	1	25	19.74	19.70	19.88	20	1.4		
10	256QAM	1	49	19.83	19.44	19.73				
10	256QAM	25	0	19.63	19.62	19.74				
10	256QAM	25	12	19.82	19.82	19.74				
10	256QAM	25	24	19.82	19.83	19.75	20	1.4		
10	256QAM	25	25	19.72	19.77	19.81				
10	256QAM	50	0	19.76	19.67	19.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.74	19.78	19.73	21.4	0		
5	QPSK	1	12	19.71	19.65	19.80				
5	QPSK	1	24	19.79	19.72	19.71				
5	QPSK	12	0	19.56	19.71	19.82	21.4	0		
5	QPSK	12	7	19.80	19.78	19.68				
5	QPSK	12	13	19.81	19.78	19.62				
5	QPSK	25	0	19.83	19.82	19.84	21.4	0		
5	16QAM	1	0	19.80	19.66	19.76				
5	16QAM	1	12	19.84	19.69	19.54	21.4	0		
5	16QAM	1	24	19.43	19.62	19.68				
5	16QAM	12	0	19.54	19.67	19.87	21.4	0		
5	16QAM	12	7	19.87	19.64	19.63				
5	16QAM	12	13	19.89	19.70	19.83				
5	16QAM	25	0	19.55	19.70	19.84	21.4	0		
5	64QAM	1	0	19.56	19.70	19.85				
5	64QAM	1	12	19.59	19.70	19.79	21.4	0		
5	64QAM	1	24	19.77	19.67	19.87				
5	64QAM	12	0	19.58	19.65	19.55	21.4	0		
5	64QAM	12	7	19.85	19.81	19.70				
5	64QAM	12	13	19.82	19.82	19.83				
5	64QAM	25	0	19.82	19.64	19.59				
5	256QAM	1	0	19.79	19.80	19.79				
5	256QAM	1	12	19.59	19.47	19.80	20	1.4		
5	256QAM	1	24	19.83	19.44	19.76				
5	256QAM	12	0	19.83	19.79	19.68				
5	256QAM	12	7	19.82	19.71	19.88	20	1.4		
5	256QAM	12	13	19.72	19.71	19.88				
5	256QAM	25	0	19.54	19.74	19.81				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.74	19.83	19.87	21.4	0		
3	QPSK	1	8	19.84	19.84	19.84				
3	QPSK	1	14	19.79	19.74	19.71				
3	QPSK	8	0	19.87	19.72	19.85	21.4	0		
3	QPSK	8	4	19.87	19.71	19.85				
3	QPSK	8	7	19.83	19.72	19.89				
3	QPSK	15	0	19.80	19.86	19.84	21.4	0		
3	16QAM	1	0	19.83	19.67	19.73				
3	16QAM	1	8	19.50	19.70	19.81	21.4	0		
3	16QAM	1	14	19.84	19.68	19.71				
3	16QAM	8	0	19.58	19.70	19.71	21.4	0		
3	16QAM	8	4	19.56	19.68	19.80				
3	16QAM	8	7	19.87	19.79	19.81				
3	16QAM	15	0	19.82	19.67	19.61	21.4	0		



Band 38 Ant1_DS16 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MRR (dB)
Channel										
Frequency (MHz)				37650	38050	38150				
20	QPSK	1	0	20.72	20.72	20.72	20.72	20.72	22.1	0
20	QPSK	1	48	20.58	20.78	20.78	20.78	20.78		
20	QPSK	1	96	20.58	20.78	20.78	20.78	20.78		
20	QPSK	50	0	20.60	20.77	20.77	20.77	20.77		
20	QPSK	50	24	20.57	20.76	20.66	20.66	20.66	22.1	0
20	QPSK	50	48	20.57	20.69	20.69	20.69	20.69		
20	QPSK	100	0	20.52	20.68	20.68	20.68	20.68		
20	HQAM	1	0	20.61	20.77	20.68	20.68	20.68	22.1	0
20	HQAM	1	48	20.58	20.71	20.71	20.71	20.71		
20	HQAM	1	96	20.58	20.74	20.74	20.74	20.74		
20	HQAM	50	0	20.55	20.76	20.72	20.72	20.72	22.1	0
20	HQAM	50	24	20.57	20.69	20.69	20.69	20.69		
20	HQAM	50	48	20.57	20.73	20.73	20.73	20.73		
20	HQAM	100	0	20.53	20.62	20.62	20.62	20.62		
20	HQAM	1	48	20.71	20.71	20.79	20.79	20.79	22.1	0
20	HQAM	1	96	20.60	20.75	20.66	20.66	20.66		
20	HQAM	50	0	20.58	20.77	20.65	20.65	20.65	22.1	0
20	HQAM	50	24	20.70	20.76	20.73	20.73	20.73		
20	HQAM	50	48	20.58	20.77	20.65	20.65	20.65		
20	HQAM	100	0	20.49	20.69	20.63	20.63	20.63		
20	HQAM	1	0	19.00	19.19	19.00	19.00	19.00	20	2.1
20	HQAM	1	48	19.15	19.31	19.09	19.09	19.09		
20	HQAM	1	96	19.34	19.50	19.18	19.18	19.18		
20	HQAM	50	0	20.43	20.60	20.50	20.50	20.50	22.1	0
20	HQAM	50	24	19.35	19.07	19.08	19.08	19.08		
20	HQAM	50	48	18.91	19.03	19.08	19.08	19.08	20	2.1
20	HQAM	100	0	20.58	20.77	20.65	20.65	20.65		
20	HQAM	100	0	12.50	12.50	18.75	18.75	18.75		
15	QPSK	1	0	20.62	20.60	20.73	20.73	20.73	22.1	0
15	QPSK	1	37	20.45	20.68	20.66	20.66	20.66		
15	QPSK	1	74	20.46	20.67	20.66	20.66	20.66		
15	QPSK	36	0	20.54	20.69	20.66	20.66	20.66	22.1	0
15	QPSK	36	20	20.44	20.64	20.52	20.52	20.52		
15	QPSK	36	37	20.43	20.61	20.61	20.61	20.61		
15	QPSK	75	0	20.40	20.67	20.60	20.60	20.60	22.1	0
15	HQAM	1	0	20.55	20.68	20.62	20.62	20.62	22.1	0
15	HQAM	1	37	20.45	20.68	20.62	20.62	20.62		
15	HQAM	1	74	20.55	20.68	20.62	20.62	20.62		
15	HQAM	36	0	20.46	20.61	20.60	20.60	20.60	22.1	0
15	HQAM	36	20	20.45	20.62	20.60	20.60	20.60		
15	HQAM	36	37	20.40	20.65	20.61	20.61	20.61		
15	HQAM	75	0	20.48	20.63	20.62	20.62	20.62	22.1	0
15	HQAM	75	0	20.43	20.63	20.62	20.62	20.62		
15	HQAM	1	37	20.63	20.63	20.68	20.68	20.68		
15	HQAM	1	74	20.54	20.64	20.60	20.60	20.60	22.1	0
15	HQAM	36	0	20.57	20.62	20.66	20.66	20.66		
15	HQAM	36	20	20.54	20.70	20.68	20.68	20.68	22.1	0
15	HQAM	36	37	20.45	20.62	20.66	20.66	20.66		
15	HQAM	75	0	20.44	20.55	20.43	20.43	20.43	22.1	0
15	HQAM	75	0	18.92	19.13	18.95	18.95	18.95	20	2.1
15	HQAM	1	37	18.92	19.08	18.95	18.95	18.95		
15	HQAM	1	74	18.94	19.02	18.91	18.91	18.91		
15	HQAM	36	0	18.81	18.96	18.90	18.90	18.90	20	2.1
15	HQAM	36	20	18.84	18.92	18.94	18.94	18.94		
15	HQAM	36	37	18.81	18.92	18.89	18.89	18.89		
15	HQAM	75	0	18.87	18.94	18.94	18.94	18.94	20	2.1
15	HQAM	75	0	18.47	18.38	18.41	18.41	18.41		
15	HQAM	75	0	12.50	12.50	18.50	18.50	18.50		
10	QPSK	1	0	20.71	20.65	20.74	20.74	20.74	22.1	0
10	QPSK	1	25	20.47	20.72	20.66	20.66	20.66		
10	QPSK	1	49	20.43	20.67	20.50	20.50	20.50	22.1	0
10	QPSK	12	0	20.46	20.69	20.66	20.66	20.66		
10	QPSK	25	12	20.44	20.63	20.63	20.63	20.63	22.1	0
10	QPSK	25	25	20.47	20.52	20.45	20.45	20.45		
10	QPSK	50	0	20.35	20.63	20.66	20.66	20.66	22.1	0
10	HQAM	1	0	20.46	20.69	20.61	20.61	20.61	22.1	0
10	HQAM	1	25	20.40	20.61	20.48	20.48	20.48		
10	HQAM	1	49	20.51	20.67	20.66	20.66	20.66		
10	HQAM	25	0	20.48	20.62	20.59	20.59	20.59	22.1	0
10	HQAM	25	12	20.43	20.57	20.48	20.48	20.48		
10	HQAM	50	0	20.40	20.60	20.58	20.58	20.58	22.1	0
10	HQAM	50	0	20.44	20.59	20.58	20.58	20.58		
10	HQAM	1	25	20.59	20.64	20.72	20.72	20.72	22.1	0
10	HQAM	1	49	20.55	20.69	20.59	20.59	20.59		
10	HQAM	25	0	20.63	20.67	20.62	20.62	20.62	22.1	0
10	HQAM	25	12	20.71	20.65	20.66	20.66	20.66		
10	HQAM	25	25	20.45	20.62	20.62	20.62	20.62		
10	HQAM	50	0	20.37	20.62	20.47	20.47	20.47	22.1	0
10	HQAM	50	0	18.90	19.04	19.01	19.01	19.01		
10	HQAM	1	25	18.98	18.96	18.91	18.91	18.91	20	2.1
10	HQAM	1	49	18.98	19.05	18.94	18.94	18.94		
10	HQAM	25	0	18.97	19.02	18.90	18.90	18.90	20	2.1
10	HQAM	25	12	18.94	18.99	18.96	18.96	18.96		
10	HQAM	25	25	18.95	18.97	18.90	18.90	18.90	20	2.1
10	HQAM	50	0	18.80	19.03	18.88	18.88	18.88	20	2.1
5	QPSK	1	0	20.71	20.65	20.74	20.74	20.74	22.1	0
5	QPSK	1	12	20.49	20.61	20.64	20.64	20.64		
5	QPSK	12	0	20.47	20.71	20.60	20.60	20.60	22.1	0
5	QPSK	12	7	20.50	20.69	20.59	20.59	20.59		
5	QPSK	12	13	20.46	20.52	20.47	20.47	20.47	22.1	0
5	QPSK	25	0	20.45	20.65	20.61	20.61	20.61		
5	HQAM	1	0	20.46	20.66	20.63	20.63	20.63	22.1	0
5	HQAM	1	12	20.43	20.62	20.61	20.61	20.61		
5	HQAM	1	24	20.56	20.68	20.61	20.61	20.61	22.1	0
5	HQAM	12	0	20.43	20.70	20.62	20.62	20.62		
5	HQAM	12	7	20.52	20.58	20.53	20.53	20.53	22.1	0
5	HQAM	12	13	20.56	20.66	20.62	20.62	20.62		
5	HQAM	25	0	20.44	20.67	20.57	20.57	20.57	22.1	0
5	HQAM	25	0	20.47	20.55	20.46	20.46	20.46		
5	HQAM	12	0	20.58	20.67	20.66	20.66	20.66	22.1	0
5	HQAM	12	13	20.49	20.63	20.52	20.52	20.52		
5	HQAM	25	0	20.45	20.58	20.46	20.46	20.46	22.1	0
5	HQAM	25	0	18.98	19.13	18.93	18.93	18.93		
5	HQAM	12	0	18.91	19.05	18.96	18.96	18.96	20	2.1
5	HQAM	12	7	18.91	19.01	18.81	18.81	18.81		
5	HQAM	12	13	18.94	18.99	18.86	18.86	18.86	20	2.1
5	HQAM	25	0	18.77	19.03	18.87	18.87	18.87		

Band 41 Ant1_DS16 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MRR (dB)
Channel										
Frequency (MHz)				39750	40185	40200	41005	41400		
20	QPSK	1	0	20.70	20.83	21.03	21.03	20.94	22.1	0
20	QPSK	1	49	21.09	20.92	21.10	21.09	21.07		
20	QPSK	1	96	21.07	20.84	21.08	21.08	21.08		
20	QPSK	50	0	21.03	21.03	21.09	20.82	20.93	22.1	0
20	QPSK	50	24	21.03	20.92	21.07	20.95	20.94		
20	QPSK	50	49	21.02	20.80	21.02	20.99	20.93		
20	QPSK	100	0	20.79	20.83	21.04	20.77	20.91	22.1	0
20	HQAM	1	0	21.12	20.88	21.05	20.97	21.04	22.1	0
20	HQAM	1	48	20.94	20.84	21.06	21.02	21.04		
20	HQAM	1	96	21.01	21.01	21.10	21.02	21.10		
20	HQAM	50	0	21.09	20.88	21.09	21.01	21.02	22.1	0
20	HQAM	50	24	21.02	20.90	21.02	20.99	20.93		
20	HQAM	50	48	21.06	21.03	21.09	21.10	21.02	22.1	0
20	HQAM	100	0	21.06	20.86	21.05	21.01	21.01		
20	HQAM	1	49	20.99	21.00	21.07	21.06	21.04	22.1	0
20	HQAM	1	96	21.02	20.82	21.01	21.01	21.01		
20	HQAM	50	0	20.90	21.09	21.04	21.05	21.03	22.1	0
20	HQAM	50	24	21.05	21.06	21.12	21.09	21.05		
20	HQAM	50	48	21.03	20.93					



Band 48 Ant2_ Standalone DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	22.30	22.46	22.50	22.33	23.5	0		
20	QPSK	1	49	22.46	22.32	22.48	22.29				
20	QPSK	1	99	22.37	22.31	22.46	22.40				
20	QPSK	50	0	21.46	21.38	21.44	21.41				
20	QPSK	50	24	21.33	21.42	21.49	21.43	23	0.5		
20	QPSK	50	50	21.57	21.41	21.58	21.45				
20	QPSK	100	0	21.28	21.44	21.46	21.38				
20	QPSK	100	24	21.32	21.44	21.44	21.23				
20	16QAM	1	0	21.32	21.44	21.44	21.23	23	0.5		
20	16QAM	1	49	21.52	21.50	21.53	21.48				
20	16QAM	1	99	21.44	21.31	21.50	21.44				
20	16QAM	50	0	20.33	20.47	20.46	20.45				
20	16QAM	50	24	20.42	20.44	20.49	20.49	22	1.5		
20	16QAM	50	50	20.49	20.57	20.57	20.57				
20	16QAM	100	0	20.48	20.39	20.47	20.40				
20	16QAM	100	24	20.34	20.33	20.48	20.48				
20	64QAM	1	0	20.34	20.33	20.48	20.48	22	1.5		
20	64QAM	1	49	20.23	20.29	20.42	20.38				
20	64QAM	1	99	20.42	20.34	20.41	20.34				
20	64QAM	50	0	19.23	19.23	19.35	19.20				
20	64QAM	50	24	19.31	19.35	19.44	19.40	21	2.5		
20	64QAM	50	50	19.51	19.54	19.53	19.55				
20	64QAM	100	0	19.25	19.29	19.37	19.36				
20	64QAM	100	24	17.33	17.24	17.39	17.28				
20	256QAM	1	0	17.46	17.53	17.51	17.37	19	4.5		
20	256QAM	1	49	17.31	17.38	17.41	17.28				
20	256QAM	50	0	17.36	17.35	17.45	17.27				
20	256QAM	50	24	17.25	17.34	17.46	17.28				
20	256QAM	50	50	17.52	17.51	17.55	17.33	19	4.5		
20	256QAM	100	0	17.38	17.42	17.43	17.40				
Channel				55315	55820	56180	56685				
Frequency (MHz)				3557.5	3608	3642	3692.5				
15	QPSK	1	0	22.15	22.38	22.39	22.18	23.5	0		
15	QPSK	1	37	22.32	22.33	22.32	22.21				
15	QPSK	1	74	22.28	22.19	22.27	22.33				
15	QPSK	36	0	21.25	21.23	21.43	21.36				
15	QPSK	36	20	21.19	21.31	21.40	21.27	23	0.5		
15	QPSK	36	39	21.43	21.22	21.50	21.34				
15	QPSK	75	0	21.20	21.44	21.35	21.31				
15	QPSK	75	0	21.22	21.29	21.23	21.11				
15	16QAM	1	0	21.53	21.50	21.31	21.34	23	0.5		
15	16QAM	1	74	21.23	21.26	21.38	21.31				
15	16QAM	36	0	20.15	20.38	20.30	20.25				
15	16QAM	36	20	20.40	20.23	20.31	20.27				
15	16QAM	36	39	20.35	20.49	20.56	20.47	22	1.5		
15	16QAM	75	0	20.28	20.23	20.44	20.26				
15	64QAM	1	0	20.26	20.15	20.32	20.32				
15	64QAM	1	37	20.06	20.13	20.27	20.36				
15	64QAM	1	74	20.41	20.25	20.32	20.26	22	1.5		
15	64QAM	36	0	19.03	19.11	19.25	19.09				
15	64QAM	36	20	19.17	19.16	19.43	19.37				
15	64QAM	36	39	19.30	19.39	19.44	19.50				
15	64QAM	75	0	19.25	19.29	19.33	19.36	21	2.5		
15	256QAM	1	0	17.26	17.18	17.39	17.17				
15	256QAM	1	37	17.40	17.50	17.52	17.30				
15	256QAM	1	74	17.17	17.24	17.34	17.15				
15	256QAM	36	0	17.28	17.15	17.28	17.25	19	4.5		
15	256QAM	36	20	17.08	17.17	17.36	17.16				
15	256QAM	36	39	17.51	17.30	17.43	17.34				
15	256QAM	75	0	17.33	17.29	17.28	17.21				
Channel				55290	55815	56165	56690				
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	22.10	22.28	22.30	22.11	23.5	0		
10	QPSK	1	25	22.31	22.33	22.41	22.11				
10	QPSK	1	49	22.21	22.31	22.32	22.41				
10	QPSK	25	0	21.30	21.28	21.33	21.24				
10	QPSK	25	12	21.19	21.32	21.48	21.25	23	0.5		
10	QPSK	25	25	21.53	21.36	21.39	21.35				
10	QPSK	50	0	21.21	21.35	21.42	21.30				
10	16QAM	1	0	21.28	21.31	21.34	21.15				
10	16QAM	1	25	21.40	21.49	21.50	21.29	23	0.5		
10	16QAM	1	49	21.34	21.27	21.49	21.45				
10	16QAM	25	0	20.27	20.33	20.32	20.27				
10	16QAM	25	12	20.35	20.35	20.33	20.38				
10	16QAM	25	25	20.50	20.50	20.41	20.43	22	1.5		
10	16QAM	50	0	20.40	20.36	20.40	20.26				
10	64QAM	1	0	20.13	20.34	20.50	20.45				
10	64QAM	1	25	20.19	20.08	20.28	20.18				
10	64QAM	1	49	20.28	20.34	20.31	20.25	22	1.5		
10	64QAM	25	0	19.21	19.20	19.37	19.01				
10	64QAM	25	12	19.14	19.20	19.44	19.39				
10	64QAM	25	25	19.34	19.47	19.46	19.48				
10	64QAM	50	0	19.24	19.13	19.23	19.20	21	2.5		
10	256QAM	1	0	17.18	17.21	17.19	17.25				
10	256QAM	1	25	17.47	17.52	17.51	17.15				
10	256QAM	1	49	17.10	17.17	17.39	17.27				
10	256QAM	25	0	17.25	17.34	17.32	17.11	19	4.5		
10	256QAM	25	12	17.09	17.34	17.34	17.20				
10	256QAM	25	25	17.53	17.46	17.48	17.12				
10	256QAM	50	0	17.30	17.38	17.35	17.38				
Channel				55265	55810	56170	56715				
Frequency (MHz)				3552.5	3607	3643	3697.5				
5	QPSK	1	0	22.26	22.26	22.44	22.19	23.5	0		
5	QPSK	1	12	22.27	22.19	22.35	22.24				
5	QPSK	1	24	22.34	22.12	22.39	22.29				
5	QPSK	12	0	21.35	21.37	21.35	21.26				
5	QPSK	12	7	21.27	21.43	21.39	21.26	23	0.5		
5	QPSK	12	13	21.66	21.43	21.54	21.25				
5	QPSK	25	0	21.25	21.43	21.38	21.32				
5	16QAM	1	0	21.10	21.39	21.36	21.21				
5	16QAM	1	12	21.42	21.47	21.32	21.47	23	0.5		
5	16QAM	1	24	21.38	21.12	21.50	21.24				
5	16QAM	12	0	20.35	20.43	20.29	20.41				
5	16QAM	12	7	20.29	20.23	20.37	20.28				
5	16QAM	12	13	20.29	20.56	20.46	20.36	22	1.5		
5	16QAM	25	0	20.30	20.34	20.42	20.34				
5	64QAM	1	0	20.22	20.23	20.31	20.30				
5	64QAM	1	12	20.18	20.09	20.21	20.40				
5	64QAM	1	24	20.41	20.27	20.31	20.14	22	1.5		
5	64QAM	12	0	19.01	19.16	19.15	19.08				
5	64QAM	12	7	19.24	19.14	19.30	19.20				
5	64QAM	12	13	19.46	19.51	19.44	19.49				
5	64QAM	25	0	19.12	19.20	19.24	19.29	21	2.5		
5	256QAM	1	0	17.13	17.06	17.24	17.16				
5	256QAM	1	12	17.43	17.54	17.33	17.20				
5	256QAM	1	24	17.23	17.23	17.35	17.27				
5	256QAM	12	0	17.32	17.19	17.41	17.11	19	4.5		
5	256QAM	12	7	17.14	17.34	17.46	17.17				
5	256QAM	12	13	17.32	17.45	17.42	17.28				
5	256QAM	25	0	17.17	17.43	17.39	17.41				



Band 48 Ant2_DSI6 Simultaneous

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.50	20.64	20.65	20.59	21.7	0
20	QPSK	1	49	20.55	20.56	20.47	20.43		
20	QPSK	1	99	20.46	20.35	20.57	20.44		
20	QPSK	50	0	20.43	20.31	20.62	20.45		
20	QPSK	50	24	20.27	20.34	20.60	20.28	21.7	0
20	QPSK	50	50	20.47	20.48	20.46	20.49		
20	QPSK	100	0	20.41	20.57	20.58	20.37		
20	16QAM	1	0	20.23	20.49	20.53	20.16		
20	16QAM	1	49	20.52	20.52	20.52	20.42	21.7	0
20	16QAM	1	99	20.31	20.45	20.41	20.42		
20	16QAM	50	0	20.33	20.29	20.29	20.54		
20	16QAM	50	24	20.55	20.37	20.51	20.45		
20	16QAM	50	50	20.48	20.42	20.35	20.46	21.7	0
20	16QAM	100	0	20.54	20.37	20.50	20.21		
20	64QAM	1	0	20.53	20.49	20.54	20.48		
20	64QAM	1	49	20.34	20.40	20.38	20.32		
20	64QAM	1	99	20.44	20.48	20.43	20.38	21.7	0
20	64QAM	50	0	19.38	19.46	19.60	19.45		
20	64QAM	50	24	19.39	19.38	19.42	19.34		
20	64QAM	50	50	19.49	19.47	19.50	19.36		
20	64QAM	100	0	19.26	19.33	19.25	19.27	21	0.7
20	256QAM	1	0	17.37	17.40	17.55	17.38		
20	256QAM	1	49	17.42	17.49	17.41	17.33		
20	256QAM	1	99	17.52	17.50	17.30	17.30		
20	256QAM	50	0	17.22	17.38	17.53	17.40	19	2.7
20	256QAM	50	24	17.21	17.21	17.39	17.25		
20	256QAM	50	50	17.43	17.47	17.45	17.47		
20	256QAM	100	0	17.51	17.38	17.36	17.39		
Channel				55315	55820	56180	56685		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	20.39	20.58	20.59	20.52	21.7	0
15	QPSK	1	37	20.49	20.47	20.33	20.28		
15	QPSK	1	74	20.37	20.28	20.44	20.33		
15	QPSK	36	0	20.33	20.25	20.51	20.35		
15	QPSK	36	20	20.15	20.24	20.55	20.16	21.7	0
15	QPSK	36	39	20.37	20.39	20.41	20.35		
15	QPSK	75	0	20.30	20.46	20.49	20.22		
15	16QAM	1	0	20.17	20.42	20.39	20.06		
15	16QAM	1	37	20.45	20.45	20.44	20.31	21.7	0
15	16QAM	1	74	20.23	20.40	20.34	20.36		
15	16QAM	36	0	20.24	20.20	20.20	20.40		
15	16QAM	36	20	20.43	20.25	20.37	20.33		
15	16QAM	36	39	20.41	20.30	20.28	20.38	21.7	0
15	16QAM	75	0	20.43	20.25	20.40	20.14		
15	64QAM	1	0	20.44	20.38	20.41	20.38		
15	64QAM	1	37	20.25	20.30	20.31	20.22		
15	64QAM	1	74	20.33	20.39	20.35	20.32	21.7	0
15	64QAM	36	0	19.24	19.32	19.54	19.39		
15	64QAM	36	20	19.30	19.31	19.30	19.22		
15	64QAM	36	39	19.44	19.42	19.37	19.25		
15	64QAM	75	0	19.20	19.24	19.16	19.13	21	0.7
15	256QAM	1	0	17.22	17.31	17.41	17.26		
15	256QAM	1	37	17.33	17.36	17.27	17.21		
15	256QAM	1	74	17.47	17.44	17.20	17.19		
15	256QAM	36	0	17.15	17.26	17.46	17.34	19	2.7
15	256QAM	36	20	17.07	17.11	17.24	17.16		
15	256QAM	36	39	17.36	17.33	17.37	17.37		
15	256QAM	75	0	17.36	17.24	17.26	17.27		
Channel				55290	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	20.44	20.53	20.54	20.49	21.7	0
10	QPSK	1	25	20.50	20.49	20.39	20.31		
10	QPSK	1	49	20.39	20.24	20.44	20.32		
10	QPSK	25	0	20.37	20.24	20.50	20.36		
10	QPSK	25	12	20.18	20.24	20.50	20.13	21.7	0
10	QPSK	25	25	20.38	20.34	20.39	20.37		
10	QPSK	50	0	20.35	20.51	20.45	20.31		
10	16QAM	1	0	20.10	20.37	20.44	20.02		
10	16QAM	1	25	20.40	20.39	20.47	20.34	21.7	0
10	16QAM	1	49	20.21	20.31	20.34	20.32		
10	16QAM	25	0	20.26	20.16	20.19	20.36		
10	16QAM	25	12	20.43	20.27	20.37	20.35		
10	16QAM	25	25	20.40	20.29	20.23	20.40	21.7	0
10	16QAM	50	0	20.43	20.31	20.43	20.09		
10	64QAM	1	0	20.41	20.38	20.40	20.42		
10	64QAM	1	25	20.27	20.25	20.32	20.21		
10	64QAM	1	49	20.30	20.40	20.35	20.31	21	0.7
10	64QAM	25	0	19.26	19.32	19.45	19.34		
10	64QAM	25	12	19.26	19.29	19.35	19.27		
10	64QAM	25	25	19.43	19.32	19.43	19.30		
10	64QAM	50	0	19.12	19.24	19.12	19.12	19	2.7
10	256QAM	1	0	17.26	17.27	17.44	17.28		
10	256QAM	1	25	17.34	17.43	17.29	17.21		
10	256QAM	1	49	17.46	17.39	17.16	17.20		
10	256QAM	25	0	17.10	17.27	17.46	17.27	19	2.7
10	256QAM	25	12	17.14	17.09	17.27	17.17		
10	256QAM	25	25	17.32	17.33	17.39	17.39		
10	256QAM	50	0	17.38	17.24	17.22	17.24		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.38	20.49	20.53	20.44	21.7	0
5	QPSK	1	12	20.40	20.51	20.33	20.31		
5	QPSK	1	24	20.40	20.26	20.48	20.37		
5	QPSK	12	0	20.33	20.18	20.53	20.33		
5	QPSK	12	7	20.16	20.21	20.49	20.14	21.7	0
5	QPSK	12	13	20.37	20.33	20.32	20.39		
5	QPSK	25	0	20.29	20.48	20.49	20.29		
5	16QAM	1	0	20.15	20.41	20.47	20.10		
5	16QAM	1	12	20.39	20.42	20.37	20.30	21.7	0
5	16QAM	1	24	20.18	20.30	20.31	20.30		
5	16QAM	12	0	20.26	20.21	20.21	20.46		
5	16QAM	12	7	20.48	20.25	20.37	20.36		
5	16QAM	12	13	20.39	20.35	20.22	20.36	21.7	0
5	16QAM	25	0	20.43	20.25	20.40	20.15		
5	64QAM	1	0	20.47	20.34	20.41	20.40		
5	64QAM	1	12	20.24	20.28	20.30	20.21		
5	64QAM	1	24	20.38	20.39	20.35	20.27	21	0.7
5	64QAM	12	0	19.26	19.35	19.46	19.31		
5	64QAM	12	7	19.34	19.26	19.29	19.25		
5	64QAM	12	13	19.43	19.35	19.39	19.27		
5	64QAM	25	0	19.12	19.24	19.18	19.15	19	2.7
5	256QAM	1	0	17.29	17.29	17.49	17.25		
5	256QAM	1	12	17.30	17.40	17.33	17.19		
5	256QAM	1	24	17.42	17.37	17.20	17.21		
5	256QAM	12	0	17.10	17.27	17.47	17.34	19	2.7
5	256QAM	12	7	17.07	17.13	17.24	17.18		
5	256QAM	12	13	17.35	17.37	17.37	17.35		
5	256QAM	25	0	17.44	17.31	17.25	17.24		



Uplink CA Power

Ant 0 Full Power

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	23.07	24.00
132322	132520	QPSK	1	99	1	0	2	0	23.14	24.00
132572	132374	QPSK	1	0	1	99	2	0	23.17	24.00

Ant 0 Full Power

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	22.97	24.00
20525	20597	QPSK	1	49	1	0	2	0	23.02	24.00
20600	20528	QPSK	1	0	1	24	2	0	23.08	24.00

Ant 1 Full Power

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	22.98	24.00
132322	132520	QPSK	1	99	1	0	2	0	23.01	24.00
132572	132374	QPSK	1	0	1	99	2	0	22.97	24.00

Ant 1 Full Power

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	23.07	24.00
20525	20597	QPSK	1	49	1	0	2	0	23.02	24.00
20600	20528	QPSK	1	0	1	24	2	0	23.12	24.00

Ant 0 Full Power

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	1	24	2	0	23.01	24.00
132322	132415	QPSK	1	0	1	24	2	0	23.05	24.00
132597	132504	QPSK	1	74	1	24	2	0	23.09	24.00

Ant 0 Full Power

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	23.55	24.00
39750	39948	QPSK	1	99	1	0	2	0	23.45	24.00
40185	40383	QPSK	1	99	1	0	2	0	23.42	24.00
40620	40818	QPSK	1	99	1	0	2	0	23.69	24.00
41055	41253	QPSK	1	99	1	0	2	0	23.51	24.00
41490	41292	QPSK	1	0	1	99	2	0	23.72	24.00

Ant 1 Full Power

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	1	24	2	0	22.47	24.00
132322	132415	QPSK	1	0	1	24	2	0	22.53	24.00
132597	132504	QPSK	1	74	1	24	2	0	22.58	24.00

Ant 1 Full Power

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	23.27	24.00
39750	39948	QPSK	1	99	1	0	2	0	23.15	24.00
40185	40383	QPSK	1	99	1	0	2	0	23.2	24.00
40620	40818	QPSK	1	99	1	0	2	0	23.29	24.00
41055	41253	QPSK	1	99	1	0	2	0	23.15	24.00
41490	41292	QPSK	1	0	1	99	2	0	23.31	24.00



Ant 2 Full Power

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	23.26	24.00
55830	56028	QPSK	1	99	1	0	2	0	23.25	24.00
56150	56348	QPSK	1	99	1	0	2	0	23.31	24.00
56640	56442	QPSK	1	0	1	99	2	0	23.29	24.00



DSI2

Ant 1 Standalone

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	16.36	17.70
132322	132520	QPSK	1	99	1	0	2	0	16.45	17.70
132572	132374	QPSK	1	0	1	99	2	0	16.59	17.70

Ant 1 Simultaneous

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	14.53	16.40
132322	132520	QPSK	1	99	1	0	2	0	14.58	16.40
132572	132374	QPSK	1	0	1	99	2	0	14.62	16.40

Ant 1 Standalone

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	1	24	2	0	15.95	17.70
132322	132415	QPSK	1	0	1	24	2	0	15.90	17.70
132597	132504	QPSK	1	74	1	24	2	0	15.98	17.70

Ant 1 Simultaneous

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	1	24	2	0	14.43	16.40
132322	132415	QPSK	1	0	1	24	2	0	14.45	16.40
132597	132504	QPSK	1	74	1	0	2	0	14.58	16.40

Ant 1 Standalone

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	23.07	24.00
20525	20597	QPSK	1	49	1	0	2	0	23.02	24.00
20600	20528	QPSK	1	0	1	24	2	0	23.12	24.00

Ant 1 Simultaneous

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	21.79	23.00
20525	20597	QPSK	1	49	1	0	2	0	21.87	23.00
20600	20528	QPSK	1	0	1	24	2	0	21.89	23.00

Ant 1 Standalone

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	18.66	20.10
39750	39948	QPSK	1	99	1	0	2	0	18.52	20.10
40185	40383	QPSK	1	99	1	0	2	0	18.46	20.10
40620	40818	QPSK	1	99	1	0	2	0	18.72	20.10
41055	41253	QPSK	1	99	1	0	2	0	18.56	20.10
41490	41292	QPSK	1	0	1	99	2	0	18.67	20.10

Ant 1 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal RB St.	MPR Lev.	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	17.45	18.70
39750	39948	QPSK	1	99	1	0	2	0	17.41	18.70
40185	40383	QPSK	1	99	1	0	2	0	17.4	18.70
40620	40818	QPSK	1	99	1	0	2	0	17.53	18.70
41055	41253	QPSK	1	99	1	0	2	0	17.43	18.70
41490	41292	QPSK	1	0	1	99	2	0	17.62	18.70



DSIS

Ant 0 Standalone

CA_66C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	132270	QPSK	1	99	1	0	2	0	18.21	19.70		
132322	132520	QPSK	1	99	1	0	2	0	18.18	19.70		
132572	132374	QPSK	1	0	1	99	2	0	18.28	19.70		

Ant 0 Simultaneous

CA_66C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	132270	QPSK	1	99	1	0	2	0	14.91	16.20		
132322	132520	QPSK	1	99	1	0	2	0	14.90	16.20		
132572	132374	QPSK	1	0	1	99	2	0	14.93	16.20		

Ant 2 Standalone

CA_48C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
55340	55538	QPSK	1	99	1	0	2	0	16.39	17.80		
55830	56028	QPSK	1	99	1	0	2	0	16.30	17.80		
56150	56348	QPSK	1	99	1	0	2	0	16.43	17.80		
56640	56442	QPSK	1	0	1	99	2	0	16.58	17.80		

Ant 1 Standalone

CA_66C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	132270	QPSK	1	99	1	0	2	0	18.57	20.40		
132322	132520	QPSK	1	99	1	0	2	0	18.61	20.40		
132572	132374	QPSK	1	0	1	99	2	0	18.68	20.40		

Ant 1 Simultaneous

CA_66C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132072	132270	QPSK	1	99	1	0	2	0	15.76	17.50		
132322	132520	QPSK	1	99	1	0	2	0	15.83	17.50		
132572	132374	QPSK	1	0	1	99	2	0	15.91	17.50		

Ant 0 Standalone

CA_5B												
Combination 10MHz+5MHz (50RB+25RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
20450	20522	QPSK	1	49	1	0	2	0	22.97	24.00		
20525	20597	QPSK	1	49	1	0	2	0	23.02	24.00		
20500	20528	QPSK	1	0	1	24	2	0	23.08	24.00		

Ant 0 Standalone

CA_66B												
Combination 15MHz+5MHz (75RB+25RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132047	132140	QPSK	1	0	1	24	2	0	18.25	19.70		
132322	132415	QPSK	1	0	1	24	2	0	18.31	19.70		
132597	132504	QPSK	1	74	1	0	2	0	18.19	19.70		

Ant 0 Simultaneous

CA_66B												
Combination 15MHz+5MHz (75RB+25RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132047	132140	QPSK	1	0	1	24	2	0	14.88	16.20		
132322	132415	QPSK	1	0	1	24	2	0	14.81	16.20		
132597	132504	QPSK	1	74	1	0	2	0	14.89	16.20		

Ant 0 Standalone

CA_41C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
39790	39968	QPSK	1	99	1	0	2	0	20.07	21.10		
39790	39948	QPSK	1	99	1	0	2	0	20.53	21.10		
40185	40383	QPSK	1	99	1	0	2	0	20.81	21.10		
40620	40818	QPSK	1	99	1	0	2	0	20.62	21.10		
41055	41253	QPSK	1	99	1	0	2	0	20.58	21.10		
41490	41292	QPSK	1	0	1	99	2	0	20.78	21.10		

Ant 1 Standalone

CA_66B												
Combination 15MHz+5MHz (75RB+25RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132047	132140	QPSK	1	0	1	24	2	0	18.59	20.40		
132322	132415	QPSK	1	0	1	24	2	0	18.65	20.40		
132597	132504	QPSK	1	74	1	0	2	0	18.60	20.40		

Ant 1 Simultaneous

CA_66B												
Combination 15MHz+5MHz (75RB+25RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
132047	132140	QPSK	1	0	1	24	2	0	15.74	17.50		
132322	132415	QPSK	1	0	1	24	2	0	15.79	17.50		
132597	132504	QPSK	1	74	1	0	2	0	15.81	17.50		

Ant 1 Standalone

CA_41C												
Combination 20MHz+20MHz (100RB+100RB)												
PCC Channel	SCC Channel	Modulation	PCC		SCC		RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset						
39790	39968	QPSK	1	99	1	0	2	0	21.76	23.10		
39790	39948	QPSK	1	99	1	0	2	0	21.71	23.10		
40185	40383	QPSK	1	99	1	0	2	0	21.65	23.10		
40620	40818	QPSK	1	99	1	0	2	0	21.82	23.10		
41055	41253	QPSK	1	99	1	0	2	0	21.86	23.10		
41490	41292	QPSK	1	0	1	99	2	0	21.85	23.10		



Ant 2 Simultaneous

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Le	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55638	QPSK	1	99	1	0	2	0	14.52	16.50
55830	56028	QPSK	1	99	1	0	2	0	14.60	16.50
56150	56348	QPSK	1	99	1	0	2	0	14.65	16.50
56640	56442	QPSK	1	0	1	99	2	0	14.68	16.50

Ant 1 Simultaneous

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Le	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	23.07	24.00
20525	20597	QPSK	1	49	1	0	2	0	23.02	24.00
20600	20528	QPSK	1	0	1	24	2	0	23.12	24.00

Ant 0 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Le	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39730	39668	QPSK	1	99	1	0	2	0	16.23	16.60
39750	39648	QPSK	1	99	1	0	2	0	16.18	16.60
40185	40303	QPSK	1	99	1	0	2	0	16.20	16.60
40620	40818	QPSK	1	99	1	0	2	0	16.19	16.60
41055	41253	QPSK	1	99	1	0	2	0	16.18	16.60
41490	41292	QPSK	1	0	1	99	2	0	16.25	16.60

Ant 1 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	MPR Le	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39668	QPSK	1	99	1	0	2	0	17.83	19.10
39750	39648	QPSK	1	99	1	0	2	0	17.82	19.10
40185	40383	QPSK	1	99	1	0	2	0	17.67	19.10
40620	40818	QPSK	1	99	1	0	2	0	17.70	19.10
41055	41253	QPSK	1	99	1	0	2	0	17.72	19.10
41490	41292	QPSK	1	0	1	99	2	0	17.84	19.10



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Ant 0 Standalone

CA_66C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	99	1	0	1	0	20.37	22.00	
132322	132520	QPSK	1	99	1	0	1	0	20.45	22.00	
132572	132374	QPSK	1	0	1	99	1	0	20.59	22.00	

Ant 0 Simultaneous

CA_66C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	99	1	0	2	0	19.07	20.60	
132322	132520	QPSK	1	99	1	0	2	0	19.02	20.60	
132572	132374	QPSK	1	0	1	99	2	0	18.97	20.60	

Ant 1 Standalone

CA_66C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	99	1	0	1	0	21.07	22.90	
132322	132520	QPSK	1	99	1	0	1	0	21.11	22.90	
132572	132374	QPSK	1	0	1	99	1	0	21.14	22.90	

Ant 1 Simultaneous

CA_66C											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132072	132270	QPSK	1	99	1	0	2	0	19.58	21.40	
132322	132520	QPSK	1	99	1	0	2	0	19.64	21.40	
132572	132374	QPSK	1	0	1	99	2	0	19.53	21.40	

Ant 0 Standalone

CA_66B											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	1	24	1	0	20.33	22.00	
132322	132415	QPSK	1	0	1	24	1	0	20.38	22.00	
132597	132504	QPSK	1	74	1	24	1	0	20.47	22.00	

Ant 0 Simultaneous

CA_66B											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	1	24	2	0	19.05	20.60	
132322	132415	QPSK	1	0	1	24	2	0	19.01	20.60	
132597	132504	QPSK	1	74	1	24	2	0	18.95	20.60	

Ant 1 Standalone

CA_66B											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	1	24	1	0	21.06	22.90	
132322	132415	QPSK	1	0	1	24	1	0	21.11	22.90	
132597	132504	QPSK	1	74	1	24	1	0	21.21	22.90	

Ant 1 Simultaneous

CA_66B											
Combination 15MHz+5MHz (75RB+25RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		tal	RB Si	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
132047	132140	QPSK	1	0	1	0	2	0	19.51	21.40	
132322	132415	QPSK	1	0	1	24	2	0	19.61	21.40	
132597	132504	QPSK	1	74	1	24	2	0	18.66	21.40	



Ant 2 Standalone

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB S	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	22.09	23.50
55830	56028	QPSK	1	99	1	0	2	0	22.11	23.50
56150	56348	QPSK	1	99	1	0	2	0	22.16	23.50
56640	56442	QPSK	1	0	1	99	2	0	22.23	23.50

Ant 2 Simultaneous

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB S	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	20.43	21.70
55830	56028	QPSK	1	99	1	0	2	0	20.42	21.70
56150	56348	QPSK	1	99	1	0	2	0	20.52	21.70
56640	56442	QPSK	1	0	1	99	2	0	20.54	21.70

Ant 0 Standalone

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB S	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	23.55	24.00
39750	39948	QPSK	1	99	1	0	2	0	23.45	24.00
40185	40383	QPSK	1	99	1	0	2	0	23.42	24.00
40620	40818	QPSK	1	99	1	0	2	0	23.69	24.00
41055	41253	QPSK	1	99	1	0	2	0	23.51	24.00
41490	41292	QPSK	1	0	1	99	2	0	23.72	24.00

Ant 1 Standalone

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB S	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	22.18	23.60
39750	39948	QPSK	1	99	1	0	2	0	22.05	23.60
40185	40383	QPSK	1	99	1	0	2	0	22.11	23.60
40620	40818	QPSK	1	99	1	0	2	0	22.29	23.60
41055	41253	QPSK	1	99	1	0	2	0	22.2	23.60
41490	41292	QPSK	1	0	1	99	2	0	22.36	23.60

Ant 1 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB S	MPR Lev	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39790	39988	QPSK	1	99	1	0	2	0	20.43	22.00
39750	39948	QPSK	1	99	1	0	2	0	20.38	22.00
40185	40383	QPSK	1	99	1	0	2	0	20.4	22.00
40620	40818	QPSK	1	99	1	0	2	0	20.64	22.00
41055	41253	QPSK	1	99	1	0	2	0	20.51	22.00
41490	41292	QPSK	1	0	1	99	2	0	20.68	22.00



Downlink CA Power

2CA DL

CA List	PCC								SCC					Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB	Configuration	Band	(MHz)	Freq. Channel	Configuration	(dBm)	Tx. Power (dBm)	
CA_4A-4B	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	23.12	23.24
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	22.48	22.53
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	23.17	23.25
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	23.09	23.12
CA_12A-46A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 46	20M	5540	50690		22.99	23.19
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0		Band 46	20M	5540	50690		23.01	23.07
CA_25A-41A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	23.17	23.26
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	22.39	22.57
CA_25A-46A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMIMO	Band 46	20M	5540	50690		23.13	23.26
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	4xMIMO	Band 46	20M	5540	50690		22.44	22.57
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	23.18	23.35
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	23.08	23.14
CA_41A-46A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 46	20M	5540	50690		23.88	23.92
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 46	20M	5540	50690		22.74	22.88



3CA DL

3CA List	PCC								SCC1				SCC2				Power					
	LTE Band	BW Ant	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
CA_2C_12A	Band 2	Ant0	20M	1880	18800	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095		22.98	23.1	
	Band 2	Ant1	20M	1880	18800	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095		22.42	22.54	
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO		23.11	23.19
CA_2A_2A_46A	Band 2	Ant1	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO		22.94	23.07
	Band 2	Ant0	20M	1880	18800	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 46	20M	5540	50990		23.02	23.1	
	Band 2	Ant1	20M	1880	18800	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 46	20M	5540	50990		22.41	22.54	
CA_2A_4A_13A	Band 2	Ant0	20M	1880	18800	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230		22.96	23.1	
	Band 2	Ant1	20M	1880	18800	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 13	10M	751	5230		22.49	22.54	
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 13	10M	751	5230		23.16	23.24	
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 13	10M	751	5230		22.47	22.53	
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO		22.75	22.89
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO		22.69	22.89
CA_2A_5A_46A	Band 2	Ant0	20M	1880	18800	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 46	20M	5540	50990		22.93	23.1	
	Band 2	Ant1	20M	1880	18800	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 46	20M	5540	50990		22.49	22.54	
	Band 5	Ant0	10M	836.5	26255	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		23.14	23.25	
	Band 5	Ant1	10M	836.5	26255	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		23.09	23.12	
	Band 2	Ant0	20M	1880	18800	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 46	20M	5540	50990		22.86	23.1	
CA_2A_13A_46A	Band 2	Ant1	20M	1880	18800	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 46	20M	5540	50990		22.46	22.54	
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		22.81	22.89	
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		22.68	22.89	
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 13	10M	751	5230		23.16	23.24	
CA_4A_4A_13A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 13	10M	751	5230		22.39	22.53	
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 4	20M	1732.5	20175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO		22.72	22.89
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 4	20M	1732.5	20175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO		22.65	22.89
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68796		23.12	23.24	
CA_4A_4A_71A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68796		22.43	22.53	
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	1732.5	20175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO		22.62	22.83
	Band 71	Ant1	20M	683	133322	QPSK	1	0		Band 4	20M	1732.5	20175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO		22.51	22.64
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 46	20M	5160	46890		Band 46	20M	5905	54340		23.17	23.24	
CA_4A_46A_46A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 46	20M	5160	46890		Band 46	20M	5905	54340		22.48	22.53	
	Band 5	Ant0	10M	836.5	26255	QPSK	1	0		Band 5	5M	888.7	2597		Band 46	20M	5540	50990		23.17	23.25	
	Band 5	Ant1	10M	836.5	26255	QPSK	1	0		Band 5	5M	888.7	2597		Band 46	20M	5540	50990		23.08	23.12	
CA_4A_48C	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3660.8	56348	4xMIMO		23.10	23.24
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3660.8	56348	4xMIMO		22.37	22.53
	Band 5	Ant0	10M	836.5	26255	QPSK	1	0		Band 46	20M	5160	46890		Band 46	20M	5905	54340		23.19	23.25	
CA_5A_46A_46A	Band 5	Ant1	10M	836.5	26255	QPSK	1	0		Band 46	20M	5160	46890		Band 46	20M	5905	54340		22.96	23.12	
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		23.03	23.19	
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0		Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		22.92	23.07	
CA_13A_46A_66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 46	20M	5540	50990		Band 66	20M	2145	66796	4xMIMO		22.76	22.89
	Band 13	Ant1	10M	782	23230	QPSK	1	0		Band 46	20M	5540	50990		Band 66	20M	2145	66796	4xMIMO		22.73	22.89
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 46	20M	5540	50990		23.19	23.28	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 13	10M	751	5230		Band 46	20M	5540	50990		22.47	22.56	
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1992.5	8665	4xMIMO	Band 28	5M	876.5	8865		23.18	23.28	
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1992.5	8665	4xMIMO	Band 28	5M	876.5	8865		22.46	22.57	
CA_25A_25A_26A	Band 26	Ant0	5M	831.5	28865	QPSK	1	0		Band 25	20M	1960	8340	4xMIMO	Band 25	5M	1992.5	8665	4xMIMO		22.93	23.05
	Band 26	Ant1	5M	831.5	28865	QPSK	1	0		Band 25	20M	1960	8340	4xMIMO	Band 25	5M	1992.5	8665	4xMIMO		22.87	22.95
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO		23.13	23.26
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO		22.46	22.57
CA_26A_41C	Band 26	Ant0	15M	831.5	28865	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO		23.31	23.35
	Band 26	Ant1	15M	831.5	28865	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40818	4xMIMO		22.96	23.14
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO		23.74	23.92
CA_41A_41A_41A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2687.5	41565	4xMIMO	Band 41	20M	2506	39750	4xMIMO		22.71	22.88
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 46	20M	5540	50990		23.23	23.28	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2164.8	66984	4xMIMO	Band 46	20M	5540	50990		22.43	22.56	
CA_46A_66A_66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 46	20M	5540	50990		23.19	23.28	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 46	20M	5540	50990		22.48	22.56	
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3641	56150	4xMIMO	Band 48							



6CA DL

Configure	PCC								SCC1				SCC2				SCC3				SCC4				SCC5		Power														
	LTE Band	BW Ant	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB	UL# Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)					
	Band	Ant	(MHz)	Channel						Band	(MHz)	Channel			Band	(MHz)	Channel			Band	(MHz)	Channel			Band	(MHz)	Channel			Band	(MHz)	Channel									
CA_2A-48E-48A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5520	50490		Band 46	20M	5539.8	50988		Band 46	20M	5559.9	50989		Band 46	20M	5580	51090		22.94	23.1					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5520	50490		Band 46	20M	5539.8	50988		Band 46	20M	5559.9	50989		Band 46	20M	5580	51090		22.45	22.54					
CA_2A-48E-66A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5520	50490		Band 46	20M	5539.8	50988		Band 46	20M	5559.9	50989		Band 46	20M	5580	51090		22.87	23.1					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5520	50490		Band 46	20M	5539.8	50988		Band 46	20M	5559.9	50989		Band 46	20M	5580	51090		22.46	22.54					
	Band 66	A#0	20M	1745	13232	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 46	20M	5160	46890		Band 46	20M	5179.8	47088		Band 46	20M	5199.6	47286		Band 46	20M	5219.4	47484		23.1	23.28					
	Band 66	A#1	20M	1745	13232	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 46	20M	5160	46890		Band 46	20M	5179.8	47088		Band 46	20M	5199.6	47286		Band 46	20M	5219.4	47484		22.45	22.56					
CA_2A-48D-48C	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.80	23.1					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.48	22.54					
	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.98	23.1					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.53	22.54					
CA_2A-48D-48A-66A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		23.16	23.28					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.48	22.56					
	Band 66	A#0	20M	1745	13232	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		23.16	23.28					
	Band 66	A#1	20M	1745	13232	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.48	22.56					
CA_2A-48D-66A-66A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.80	23.1					
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.37	22.54					
	Band 66	A#0	20M	1745	13232	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		23.11	23.28					
	Band 66	A#1	20M	1745	13232	QPSK	1	0	4xMIMO	Band 66	5M	2177.5	67111	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 46	20M	5579.6	51086		22.38	22.56					
CA_2A-48C-48D	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.87	23.1
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.46	22.54
	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	20M	2145	66786	4xMIMO	22.99	23.1
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 66	20M	2145	66786	4xMIMO	Band 66	20M	2145	66786	4xMIMO	22.41	22.54
CA_2A-48C-48C-66A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 2	20M	1960	900	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	23.17	23.28
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 2	20M	1960	900	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.48	22.56
	Band 66	A#0	20M	1745	13232	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 2	20M	1960	900	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	23.17	23.28
	Band 66	A#1	20M	1745	13232	QPSK	1	0	4xMIMO	Band 48	20M	3641	56150	4xMIMO	Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 2	20M	1960	900	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.48	22.56
CA_2A-48A-48E	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.95	23.1
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 48	20M	3698.8	56348	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.35	22.54
	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.96	23.1
	Band 2	A#1	20M	1880	1890	QPSK	1	0	4xMIMO	Band 46	20M	5540	50990		Band 66	20M	2145	66786	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546	4xMIMO	22.48	22.54
CA_2A-48A-48D-66A	Band 2	A#0	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 46	20M	5540	50990		Band 46	20M	5540	50990		Band 46	20M	5559.8	50988		Band 48	20M	3680.6	56546	4xMIMO	Band 48	20M	3680.6	56546			



Full Power level/Default Power level/ Pmax Power Level for 5G NR

n2 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	Pi/2 BPSK	1	1	22.27	22.45	22.46			
20	Pi/2 BPSK	1	53	22.30	22.38	22.24	24.0	0.0	
20	Pi/2 BPSK	1	104	22.28	22.46	22.33			
20	Pi/2 BPSK	50	0	22.21	22.27	22.16	24.0	0.0	
20	Pi/2 BPSK	50	26	22.30	22.31	22.21	24.0	0.0	
20	Pi/2 BPSK	50	56	22.13	22.32	22.24	24.0	0.0	
20	Pi/2 BPSK	100	0	22.21	22.27	22.16			
20	QPSK	1	1	22.44	22.51	22.49			
20	QPSK	1	53	22.37	22.47	22.43	24.0	0.0	
20	QPSK	1	104	22.42	22.42	22.28			
20	QPSK	50	0	22.27	22.32	22.21	24.0	0.0	
20	QPSK	50	26	22.34	22.40	22.21	24.0	0.0	
20	QPSK	50	56	22.28	22.37	22.26	24.0	0.0	
20	QPSK	100	0	22.42	22.43	22.41			
20	16QAM	1	1	22.40	22.39	22.32	24.0	0.0	
20	64QAM	1	1	21.61	21.62	21.63	23.0	1.0	
20	256QAM	1	1	19.18	19.33	19.19	21.0	3.0	
Channel				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.3	1860	1852.5	24.0	0.0	
15	QPSK	1	1	22.29	22.34	22.45	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1805			
10	QPSK	1	1	22.42	22.40	22.43	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1807.5			
5	QPSK	1	1	22.27	22.38	22.46	24.0	0.0	

n5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	838			
20	Pi/2 BPSK	1	1	22.15	22.27	22.20			
20	Pi/2 BPSK	1	53	22.32	22.11	22.23	24.0	0.0	
20	Pi/2 BPSK	1	104	22.02	22.01	22.32			
20	Pi/2 BPSK	50	0	22.04	22.03	22.35	24.0	0.0	
20	Pi/2 BPSK	50	26	22.10	22.14	22.11	24.0	0.0	
20	Pi/2 BPSK	50	56	22.34	22.11	22.04	24.0	0.0	
20	Pi/2 BPSK	100	0	22.33	22.14	22.37			
20	QPSK	1	1	22.22	22.43	22.22			
20	QPSK	1	53	22.07	22.11	22.04	24.0	0.0	
20	QPSK	1	104	22.12	22.13	22.05			
20	QPSK	50	0	22.17	22.21	22.01	24.0	0.0	
20	QPSK	50	26	22.17	22.32	22.20	24.0	0.0	
20	QPSK	50	56	22.12	22.13	22.10	24.0	0.0	
20	QPSK	100	0	22.12	22.20	22.34			
20	16QAM	1	1	22.22	22.34	22.34	24.0	0.0	
20	64QAM	1	1	22.32	22.12	22.21	23.0	1.0	
20	256QAM	1	1	20.02	20.21	20.02	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	22.16	22.31	22.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.08	22.22	22.22	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.20	22.25	22.10	24.0	0.0	

n12 Ant0									
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				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pi/2 BPSK	1	1	23.13	23.12	23.07			
15	Pi/2 BPSK	1	40	23.11	23.15	22.95	24.0	0.0	
15	Pi/2 BPSK	1	77	23.08	23.09	23.03			
15	Pi/2 BPSK	36	0	22.67	22.67	22.46	23.5	0.5	
15	Pi/2 BPSK	36	22	22.96	23.07	22.94	24.0	0.0	
15	Pi/2 BPSK	36	43	22.62	22.61	22.59	23.5	0.5	
15	Pi/2 BPSK	75	0	22.63	22.72	22.66			
15	QPSK	1	1	23.16	23.21	23.08			
15	QPSK	1	40	23.17	23.19	23.15	24.0	0.0	
15	QPSK	1	77	23.15	23.17	23.09			
15	QPSK	36	0	22.17	22.22	22.03	23.0	1.0	
15	QPSK	36	22	23.06	23.15	23.08	24.0	0.0	
15	QPSK	36	43	22.10	22.19	22.00	23.0	1.0	
15	QPSK	75	0	22.28	22.26	22.10			
15	16QAM	1	1	22.16	22.21	22.03	23.0	1.0	
15	64QAM	1	1	20.83	20.97	20.80	21.5	2.5	
15	256QAM	1	1	18.68	18.83	18.76	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	24.0	0.0	
10	QPSK	1	1	23.08	23.21	23.08	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.96	23.12	23.05	24.0	0.0	



n25 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	1896	1892.5	1896			
20	PI2 BPSK	1	63	22.35	22.34	22.15			
20	PI2 BPSK	1	104	22.20	22.31	22.17	24.0	0.0	
20	PI2 BPSK	50	0	22.12	22.31	22.20	24.0	0.0	
20	PI2 BPSK	50	39	22.05	22.27	22.16	24.0	0.0	
20	PI2 BPSK	50	56	22.12	22.24	22.10	24.0	0.0	
20	PI2 BPSK	100	0	22.16	22.27	22.22			
20	QPSK	1	1	22.96	22.63	22.47			
20	QPSK	1	63	22.17	22.36	22.22	24.0	0.0	
20	QPSK	1	104	22.37	22.39	22.20			
20	QPSK	50	0	22.27	22.32	22.17	24.0	0.0	
20	QPSK	50	28	22.23	22.34	22.15	24.0	0.0	
20	QPSK	50	56	22.22	22.31	22.25			
20	QPSK	100	0	22.33	22.35	22.33	24.0	0.0	
20	16QAM	1	1	22.39	22.43	22.32	24.0	0.0	
20	64QAM	1	1	21.47	21.55	21.34	23.0	1.0	
20	256QAM	1	1	19.18	19.28	19.08	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1897.5	1892.5	1897.5			
15	QPSK	1	1	22.43	22.55	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1885	1882.5	1910			
10	QPSK	1	1	22.45	22.31	22.25	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1885.5	1882.5	1912.5			
5	QPSK	1	1	22.57	22.47	22.28	24.0	0.0	

n26 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	84	811.5	84			
20	PI2 BPSK	1	63	22.55	22.65	22.49	24.0	0.0	
20	PI2 BPSK	1	104	22.56	22.62	22.45			
20	PI2 BPSK	50	0	22.61	22.67	22.53	24.0	0.0	
20	PI2 BPSK	50	39	22.59	22.64	22.56	24.0	0.0	
20	PI2 BPSK	50	56	22.45	22.58	22.40	24.0	0.0	
20	PI2 BPSK	100	0	22.54	22.67	22.61			
20	QPSK	1	1	22.98	22.73	22.68			
20	QPSK	1	63	22.57	22.64	22.52	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.65			
20	QPSK	50	0	22.59	22.66	22.55	24.0	0.0	
20	QPSK	50	28	22.54	22.72	22.63	24.0	0.0	
20	QPSK	50	56	22.52	22.63	22.48			
20	QPSK	100	0	22.58	22.72	22.57	24.0	0.0	
20	16QAM	1	1	22.63	22.69	22.58	24.0	0.0	
20	64QAM	1	1	21.97	22.09	21.92	23.5	0.5	
20	256QAM	1	1	19.72	19.77	19.59	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	141.5	811.5	141.5			
15	QPSK	1	1	22.42	22.69	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	819	831.5	844			
10	QPSK	1	1	22.40	22.60	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	816.5	831.5	846.5			
5	QPSK	1	1	22.53	22.65	22.50	24.0	0.0	

n66 Ant0									
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)									
40	PI2 BPSK	1	1	174	1745	174			
40	PI2 BPSK	1	108	23.06	23.11	23.04	24.0	0.0	
40	PI2 BPSK	1	214	22.99	23.05	22.92			
40	PI2 BPSK	1	214	22.92	23.05	22.84			
40	PI2 BPSK	108	0	22.89	22.97	22.83	24.0	0.0	
40	PI2 BPSK	108	54	23.07	23.08	23.02	24.0	0.0	
40	PI2 BPSK	108	108	23.22	23.21	23.11	24.0	0.0	
40	PI2 BPSK	216	0	22.86	23.05	22.93			
40	QPSK	1	1	23.19	23.32	23.23			
40	QPSK	1	108	22.93	23.07	23.08	24.0	0.0	
40	QPSK	1	214	23.01	23.17	23.10			
40	QPSK	108	0	23.11	23.16	23.08	24.0	0.0	
40	QPSK	108	54	22.85	23.27	22.95	24.0	0.0	
40	QPSK	108	108	23.25	23.11	23.15	24.0	0.0	
40	QPSK	216	0	23.09	23.15	23.15			
40	16QAM	1	1	23.16	23.24	23.24	24.0	0.0	
40	64QAM	1	1	21.85	22.17	22.05	23.0	1.0	
40	256QAM	1	1	19.68	19.84	19.73	21.0	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	1725	1745	1725			
30	QPSK	1	1	23.18	23.25	23.24	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	1740	1745	1740			
20	QPSK	1	1	23.14	23.22	23.08	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1717.5	1745	1722.5			
15	QPSK	1	1	23.01	23.12	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1715	1745	1715			
10	QPSK	1	1	23.09	23.10	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1722.5	1745	1722.5			
5	QPSK	1	1	23.12	23.23	23.03	24.0	0.0	



n71 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.			
Channel				134600	136100	137600			
Frequency (MHz)				674	683.5	693			
20	PI2 BPSK	1	1	22.58	22.53	22.75			
20	PI2 BPSK	1	53	22.83	22.99	22.90	24.0	0.0	
20	PI2 BPSK	1	104	22.87	22.79	22.59			
20	PI2 BPSK	50	0	22.74	22.94	22.67	24.0	0.0	
20	PI2 BPSK	50	53	22.91	22.98	22.90	24.0	0.0	
20	PI2 BPSK	50	56	22.77	22.85	22.64			
20	PI2 BPSK	100	0	22.92	23.01	22.86	24.0	0.0	
20	QPSK	1	1	23.02	23.13	22.96			
20	QPSK	1	53	22.89	22.95	22.85	24.0	0.0	
20	QPSK	1	104	22.83	22.70	22.69			
20	QPSK	50	0	22.86	22.85	22.84	24.0	0.0	
20	QPSK	50	26	22.73	22.66	22.81	24.0	0.0	
20	QPSK	50	56	22.85	22.85	22.80	24.0	0.0	
20	QPSK	100	0	22.93	22.97	22.82			
20	16QAM	1	1	22.96	23.08	23.09	24.0	0.0	
20	16QAM	1	1	22.25	22.45	22.34	24.0	0.0	
20	256QAM	1	1	20.11	20.09	20.08	21.0	3.0	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				683.5	693.5	693.5			
15	QPSK	1	1	23.02	22.95	22.88	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				688	690.5	693			
10	QPSK	1	1	22.97	23.00	22.69	24.0	0.0	
Channel				133100	135100	137100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				685.5	690.5	695.5			
5	QPSK	1	1	22.88	23.04	22.83	24.0	0.0	



n41 Ant0									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.96	23.11	22.98			
100	PI/2 BPSK	1	137	23.22	23.26	23.23	24.0	0.0	
100	PI/2 BPSK	1	271	23.02	23.14	23.16			
100	PI/2 BPSK	135	0	22.79	22.78	22.66	23.5	0.5	
100	PI/2 BPSK	135	69	23.04	23.19	23.08	24.0	0.0	
100	PI/2 BPSK	135	138	22.73	22.75	22.68	23.5	0.5	
100	PI/2 BPSK	270	0	22.53	22.72	22.63			
100	QPSK	1	1	23.21	23.33	23.25			
100	QPSK	1	137	23.06	23.17	23.00	24.0	0.0	
100	QPSK	1	271	23.21	23.23	23.16			
100	QPSK	135	0	22.20	22.22	22.07	23.0	1.0	
100	QPSK	135	69	23.06	23.14	23.02	24.0	0.0	
100	QPSK	135	138	22.21	22.21	22.22	23.0	1.0	
100	QPSK	270	0	22.06	22.14	22.02			
100	16QAM	1	1	22.34	22.42	22.39	23.0	1.0	
100	64QAM	1	1	20.69	20.86	20.71	21.5	2.5	
100	256QAM	1	1	18.47	18.61	18.56	19.5	4.5	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.20	23.17	23.13	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.15	23.24	23.23	24.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.12	23.27	23.16	24.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.14	23.25	23.23	24.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.04	23.31	23.11	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.23	23.15	23.15	24.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.08	23.31	23.16	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.13	23.32	23.20	24.0	0.0	

n41 PC2 Ant0									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	26.20	26.23	26.06			
100	PI/2 BPSK	1	137	26.01	26.18	26.04	27.0	0.0	
100	PI/2 BPSK	1	271	26.29	26.27	26.19			
100	PI/2 BPSK	135	0	26.08	26.13	25.98	26.5	0.5	
100	PI/2 BPSK	135	69	26.15	26.21	26.19	27.0	0.0	
100	PI/2 BPSK	135	138	26.20	26.18	26.05	26.5	0.5	
100	PI/2 BPSK	270	0	25.99	26.18	25.97			
100	QPSK	1	1	26.22	26.32	26.21			
100	QPSK	1	137	26.15	26.21	26.19	27.0	0.0	
100	QPSK	1	271	26.14	26.24	26.09			
100	QPSK	135	0	25.73	25.78	25.69	26.0	1.0	
100	QPSK	135	69	26.11	26.15	26.07	27.0	0.0	
100	QPSK	135	138	25.86	25.86	25.77	26.0	1.0	
100	QPSK	270	0	25.62	25.73	25.60			
100	16QAM	1	1	25.75	25.91	25.86	26.0	1.0	
100	64QAM	1	1	24.31	24.35	24.27	24.5	2.5	
100	256QAM	1	1	22.03	22.11	21.99	22.5	4.5	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	26.16	26.18	26.08	27.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	26.13	26.14	26.08	27.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	26.11	26.24	26.12	27.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	26.18	26.26	26.22	27.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	26.11	26.26	26.06	27.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	26.19	26.26	26.05	27.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	26.05	26.26	26.15	27.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	26.02	26.29	26.03	27.0	0.0	



n2 Ant1									
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									
				1860	1880	1900			
20	PI2 BPSK	1	1	23.07	23.21	23.08			
20	PI2 BPSK	1	53	22.95	23.12	23.11	24.0	0.0	
20	PI2 BPSK	1	104	22.97	23.15	22.98			
20	PI2 BPSK	50	0	23.97	23.05	23.04	24.0	0.0	
20	PI2 BPSK	50	28	23.01	23.09	22.99	24.0	0.0	
20	PI2 BPSK	50	56	22.88	23.06	22.92	24.0	0.0	
20	PI2 BPSK	100	0	23.07	23.08	22.96			
20	QPSK	1	1	23.12	23.28	23.20			
20	QPSK	1	53	23.11	23.10	22.88	24.0	0.0	
20	QPSK	1	104	23.00	23.15	23.00			
20	QPSK	50	0	22.87	23.03	22.99	24.0	0.0	
20	QPSK	50	28	22.89	23.08	23.04	24.0	0.0	
20	QPSK	50	56	22.99	23.05	22.95	24.0	0.0	
20	QPSK	100	0	22.99	23.08	23.05			
20	16QAM	1	1	23.21	23.23	23.05	24.0	0.0	
20	16QAM	1	1	22.21	22.29	22.27	23.0	1.0	
20	256QAM	1	1	19.95	20.02	19.92	21.0	3.0	
Channel									
				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	22.95	23.20	23.20	24.0	0.0	
Channel									
				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	1855	1880	1905			
Channel									
				373500	378000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.00	23.14	23.08	24.0	0.0	

n5 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				166800	167300	167800			
Frequency (MHz)									
20	PI2 BPSK	1	1	23.07	23.21	23.15			
20	PI2 BPSK	1	53	22.86	22.95	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.92	22.98	22.86			
20	PI2 BPSK	50	0	22.97	23.05	22.97	24.0	0.0	
20	PI2 BPSK	50	28	23.05	23.01	23.01	24.0	0.0	
20	PI2 BPSK	50	56	22.89	23.05	22.97	24.0	0.0	
20	PI2 BPSK	100	0	22.88	23.02	22.84			
20	QPSK	1	1	23.25	23.39	23.29			
20	QPSK	1	53	23.02	23.02	22.84	24.0	0.0	
20	QPSK	1	104	23.08	23.08	22.92			
20	QPSK	50	0	23.04	23.12	22.93	24.0	0.0	
20	QPSK	50	28	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	23.12	23.19	23.10	24.0	0.0	
20	QPSK	100	0	23.02	23.03	23.14	24.0	0.0	
20	16QAM	1	1	23.16	23.19	23.24	24.0	0.0	
20	16QAM	1	1	22.31	22.62	22.44	23.0	1.0	
20	256QAM	1	1	19.94	20.22	19.95	21.0	3.0	
Channel									
				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	23.15	23.31	23.31	24.0	0.0	
Channel									
				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	1	829	836.5	844			
Channel									
				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.20	23.25	23.10	24.0	0.0	

n7 Ant1									
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									
				504000	507000	510000			
Frequency (MHz)									
40	PI2 BPSK	1	1	23.27	23.49	23.35			
40	PI2 BPSK	1	108	23.32	23.41	23.39	24.0	0.0	
40	PI2 BPSK	1	214	23.44	23.48	23.30			
40	PI2 BPSK	108	0	23.21	23.33	23.24	24.0	0.0	
40	PI2 BPSK	108	54	23.32	23.37	23.17	24.0	0.0	
40	PI2 BPSK	108	108	23.34	23.36	23.30	24.0	0.0	
40	PI2 BPSK	216	0	23.09	23.29	23.08			
40	QPSK	1	1	23.80	23.63	23.45			
40	QPSK	1	108	23.21	23.31	23.12	24.0	0.0	
40	QPSK	1	214	23.39	23.43	23.43			
40	QPSK	108	0	23.26	23.35	23.14	24.0	0.0	
40	QPSK	108	54	23.34	23.38	23.28	24.0	0.0	
40	QPSK	108	108	23.26	23.42	23.21	24.0	0.0	
40	QPSK	216	0	23.43	23.64	23.59			
40	16QAM	1	1	23.55	23.61	23.45	24.0	0.0	
40	16QAM	1	1	22.18	22.34	22.35	23.0	1.0	
40	256QAM	1	1	20.09	20.07	19.89	21.0	3.0	
Channel									
				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
30	PI2 BPSK	1	1	23.48	23.62	23.27	24.0	0.0	
Channel									
				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
25	PI2 BPSK	1	1	2512.5	2535	2557.5			
Channel									
				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
20	QPSK	1	1	23.14	23.18	23.30	24.0	0.0	
Channel									
				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
15	QPSK	1	1	2507.5	2530	2562.5			
Channel									
				23.47	23.49	23.29	24.0	0.0	
Frequency (MHz)									
10	QPSK	1	1	23.30	23.56	23.44	24.0	0.0	
Channel									
				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)									
5	QPSK	1	1	23.39	23.59	23.41	24.0	0.0	



n25 Ant1									
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				1860	1882.5	1860			
Frequency (MHz)									
20	PI2 BPSK	1	1	23.30	23.34	23.28			
20	PI2 BPSK	1	53	23.20	23.31	23.13	24.0	0.0	
20	PI2 BPSK	1	104	23.22	23.31	23.10			
20	PI2 BPSK	50	0	23.20	23.25	23.28	24.0	0.0	
20	PI2 BPSK	50	28	23.17	23.19	23.07	24.0	0.0	
20	PI2 BPSK	50	56	23.11	23.21	23.13	24.0	0.0	
20	PI2 BPSK	100	0	23.21	23.25	23.04			
20	QPSK	1	1	23.33	23.46	23.25			
20	QPSK	1	53	23.15	23.32	23.13	24.0	0.0	
20	QPSK	1	104	23.26	23.38	23.28			
20	QPSK	50	0	23.14	23.23	23.16	24.0	0.0	
20	QPSK	50	28	23.10	23.20	23.09	24.0	0.0	
20	QPSK	50	56	22.96	23.17	23.11	24.0	0.0	
20	QPSK	100	0	23.26	23.27	23.07			
20	16QAM	1	1	23.28	23.43	23.28	24.0	0.0	
20	16QAM	1	1	23.18	23.35	23.29	23.0	1.0	
20	256QAM	1	1	23.11	23.19	23.16	21.0	3.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1875	1882.5	1875	24.0	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1882.5	1910	24.0	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1862.5	1882.5	1812.5	24.0	0.0	
5	QPSK	1	1	23.33	23.46	23.25	24.0	0.0	

n30 Ant1									
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				46000					
Frequency (MHz)				2310					
10	PI2 BPSK	1	1		23.45				
10	PI2 BPSK	1	26		23.48		24.0	0.0	
10	PI2 BPSK	1	50		23.46				
10	PI2 BPSK	25	0		23.01		23.5	0.5	
10	PI2 BPSK	25	14		23.39		24.0	0.0	
10	PI2 BPSK	25	27		22.98		23.5	0.5	
10	PI2 BPSK	50	0		23.03				
10	QPSK	1	1		23.07				
10	QPSK	1	26		23.43		24.0	0.0	
10	QPSK	1	50		23.07				
10	QPSK	25	0		22.51		23.0	1.0	
10	QPSK	25	14		23.45		24.0	0.0	
10	QPSK	25	27		22.48		23.0	1.0	
10	QPSK	50	0		22.54				
10	16QAM	1	1		22.84		23.0	1.0	
10	16QAM	1	1		21.07		21.5	2.5	
10	256QAM	1	1		19.04		19.5	4.5	
Channel				461600	462000	462800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0	
5	QPSK	1	1	23.45	23.43	23.47	24.0	0.0	

n66 Ant1									
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				34600	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	23.37	23.49	23.41			
40	PI2 BPSK	1	108	23.25	23.44	23.43	24.0	0.0	
40	PI2 BPSK	1	214	23.33	23.48	23.27			
40	PI2 BPSK	108	0	23.47	23.52	23.46	24.0	0.0	
40	PI2 BPSK	108	94	23.27	23.44	23.32	24.0	0.0	
40	PI2 BPSK	108	108	23.43	23.52	23.38	24.0	0.0	
40	PI2 BPSK	216	0	23.42	23.51	23.34			
40	QPSK	1	1	23.47	23.54	23.40			
40	QPSK	1	108	23.33	23.42	23.33	24.0	0.0	
40	QPSK	1	214	23.22	23.39	23.21			
40	QPSK	108	0	23.36	23.46	23.28	24.0	0.0	
40	QPSK	108	94	23.39	23.50	23.40	24.0	0.0	
40	QPSK	108	108	23.47	23.43	23.48	24.0	0.0	
40	QPSK	216	0	23.35	23.45	23.31			
40	16QAM	1	1	23.37	23.49	23.42	24.0	0.0	
40	16QAM	1	1	22.42	22.48	22.34	23.0	1.0	
40	256QAM	1	1	20.12	20.20	20.17	21.0	3.0	
Channel				346000	349000	353000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1725	1745	1765	24.0	0.0	
Channel				346000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1720	1745	1770	24.0	0.0	
20	QPSK	1	1	23.33	23.46	23.25	24.0	0.0	
Channel				346000	349000	354000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1717.5	1745	1772.5	24.0	0.0	
Channel				346000	349000	355000	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	23.33	23.46	23.25	24.0	0.0	
Channel				346000	349000	356000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1715	1745	1775	24.0	0.0	
Channel				346000	349000	357000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	23.33	23.46	23.25	24.0	0.0	
Channel				346000	349000	358000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1712.5	1745	1777.5	24.0	0.0	
5	QPSK	1	1	23.33	23.46	23.25	24.0	0.0	



n71 Ant1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Media Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				134500	136100	137600		
Frequency (MHz)				68	68.5	68		
20	PI2 BPSK	1	1	22.60	22.76	22.73		
20	PI2 BPSK	1	53	22.65	22.87	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.63	22.63	22.55		
20	PI2 BPSK	50	0	22.84	22.84	22.85	24.0	0.0
20	PI2 BPSK	50	28	22.87	22.88	22.77	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.81	22.61	24.0	0.0
20	PI2 BPSK	100	0	22.69	22.69	22.65		
20	QPSK	1	1	22.73	22.92	22.86		
20	QPSK	1	53	22.81	22.85	22.78	24.0	0.0
20	QPSK	1	104	22.81	22.87	22.66		
20	QPSK	50	0	22.80	22.83	22.81	24.0	0.0
20	QPSK	50	28	22.75	22.87	22.71	24.0	0.0
20	QPSK	50	56	22.61	22.61	22.61	24.0	0.0
20	QPSK	100	0	22.66	22.63	22.68		
20	16QAM	1	1	22.70	22.86	22.69	24.0	0.0
20	64QAM	1	1	22.19	22.25	22.11	26.0	1.0
20	256QAM	1	1	20.03	20.05	20.05	21.0	3.0
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	690.5	699.5		
15	QPSK	1	1	22.71	22.83	22.69	24.0	0.0
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.56	22.64	22.73	24.0	0.0
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.09	22.84	22.70	24.0	0.0



n41 Ant1									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.06	22.23	22.06			
100	PI/2 BPSK	1	137	22.22	22.24	22.22	24.0	0.0	
100	PI/2 BPSK	1	271	22.14	22.22	22.19			
100	PI/2 BPSK	135	0	21.65	21.77	21.64	23.5	0.5	
100	PI/2 BPSK	135	69	22.05	22.16	22.07	24.0	0.0	
100	PI/2 BPSK	135	138	21.52	21.74	21.58	23.5	0.5	
100	PI/2 BPSK	270	0	21.59	21.70	21.61			
100	QPSK	1	1	22.29	22.33	22.17	24.0	0.0	
100	QPSK	1	137	22.10	22.23	22.01			
100	QPSK	1	271	22.07	22.27	22.10	23.0	1.0	
100	QPSK	135	0	21.02	21.22	21.19	23.0	1.0	
100	QPSK	135	69	22.04	22.11	22.06	24.0	0.0	
100	QPSK	135	138	21.20	21.21	21.03	23.0	1.0	
100	QPSK	270	0	21.06	21.19	21.07			
100	16QAM	1	1	21.29	21.50	21.48	23.0	1.0	
100	64QAM	1	1	19.93	19.92	19.72	21.5	2.5	
100	256QAM	1	1	17.54	17.66	17.56	19.5	4.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	22.08	22.11	22.02	24.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	22.10	22.24	22.17	24.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	24.0	0.0	
70	QPSK	1	1	22.10	22.27	22.05	24.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	24.0	0.0	
60	QPSK	1	1	22.28	22.19	22.16	24.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	
50	QPSK	1	1	22.20	22.19	22.10	24.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	
40	QPSK	1	1	22.25	22.25	22.06	24.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	24.0	0.0	
30	QPSK	1	1	22.28	22.31	22.10	24.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	
20	QPSK	1	1	22.13	22.30	22.17	24.0	0.0	

n41 PC2 Ant1									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	25.01	25.17	25.08			
100	PI/2 BPSK	1	137	25.09	25.25	25.07	27.0	0.0	
100	PI/2 BPSK	1	271	25.16	25.26	25.21			
100	PI/2 BPSK	135	0	25.04	25.14	25.08	26.5	0.5	
100	PI/2 BPSK	135	69	25.15	25.13	25.11	27.0	0.0	
100	PI/2 BPSK	135	138	25.01	25.08	25.08	26.5	0.5	
100	PI/2 BPSK	270	0	24.86	25.08	25.10			
100	QPSK	1	1	25.10	25.29	25.23	27.0	0.0	
100	QPSK	1	137	25.03	25.18	25.01			
100	QPSK	1	271	25.24	25.24	25.09	26.0	1.0	
100	QPSK	135	0	24.62	24.68	24.54	26.0	1.0	
100	QPSK	135	69	25.02	25.13	25.03	27.0	0.0	
100	QPSK	135	138	24.51	24.89	24.62	26.0	1.0	
100	QPSK	270	0	24.52	24.64	24.49			
100	16QAM	1	1	24.77	24.86	24.80	26.0	1.0	
100	64QAM	1	1	23.34	23.46	23.25	24.5	2.5	
100	256QAM	1	1	21.09	21.18	21.01	22.5	4.5	
Channel				508200	518598	528998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	
90	QPSK	1	1	25.09	25.18	25.22	27.0	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	
80	QPSK	1	1	25.07	25.20	25.14	27.0	0.0	
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2531.01	2592.99	2655	27.0	0.0	
70	QPSK	1	1	25.01	25.10	25.05	27.0	0.0	
Channel				505200	518598	531998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98	27.0	0.0	
60	QPSK	1	1	25.01	25.13	25.24	27.0	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99	27.0	0.0	
50	QPSK	1	1	25.04	25.22	25.17	27.0	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	27.0	0.0	
40	QPSK	1	1	24.90	25.19	25.09	27.0	0.0	
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	27.0	0.0	
30	QPSK	1	1	25.08	25.19	25.22	27.0	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	27.0	0.0	
20	QPSK	1	1	25.07	25.27	25.14	27.0	0.0	



Par270 n77 Ant2 PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.34	22.45	22.40			
100	PI2 BPSK	1	1	22.52	22.51	22.36	24.0	0.0	
100	PI2 BPSK	1	271	22.45	22.56	22.41			
100	PI2 BPSK	135	0	21.89	21.89	21.73	23.5	0.5	
100	PI2 BPSK	135	69	22.35	22.41	22.35	24.0	0.0	
100	PI2 BPSK	135	138	21.83	22.02	21.89			
100	PI2 BPSK	270	0	21.73	21.93	21.85	23.5	0.5	
100	QPSK	1	1	22.50	22.56	22.45			
100	QPSK	1	137	22.19	22.36	22.32	24.0	0.0	
100	QPSK	1	271	22.48	22.51	22.36			
100	QPSK	135	0	21.34	21.43	21.42	23.0	1.0	
100	QPSK	135	69	22.19	22.35	22.32	24.0	0.0	
100	QPSK	135	138	21.44	21.44	21.32	23.0	1.0	
100	QPSK	270	0	21.31	21.39	21.38			
100	16QAM	1	1	21.25	21.39	21.29	23.0	1.0	
100	64QAM	1	1	19.99	20.18	20.09	21.5	2.5	
100	256QAM	1	1	17.98	18.01	17.97	19.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.44	22.51	22.40	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.44	22.40	22.39	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.42	22.55	22.55	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.34	22.44	22.38	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.45	22.37	22.38	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.33	22.51	22.35	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.32	22.45	22.39	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.36	22.42	22.45	24.0	0.0	

Par270 n77 Ant2 PC2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 662000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.24	25.28	25.18			
100	PI2 BPSK	1	137	25.17	25.34	25.27	27.0	0.0	
100	PI2 BPSK	1	271	25.37	25.39	25.23			
100	PI2 BPSK	135	0	25.28	25.31	25.19	27.0	0.0	
100	PI2 BPSK	135	69	25.20	25.36	25.31	27.0	0.0	
100	PI2 BPSK	135	138	25.20	25.27	25.23			
100	PI2 BPSK	270	0	25.32	25.39	25.27	27.0	0.0	
100	QPSK	1	1	25.37	25.46	25.32			
100	QPSK	1	137	25.31	25.34	25.25	27.0	0.0	
100	QPSK	1	271	25.25	25.36	25.27			
100	QPSK	135	0	24.85	24.88	24.81	26.5	0.5	
100	QPSK	135	69	25.06	25.17	25.11	27.0	0.0	
100	QPSK	135	138	24.78	24.96	24.79	26.5	0.5	
100	QPSK	270	0	24.89	24.93	24.89			
100	16QAM	1	1	24.55	24.82	24.68	26.5	0.5	
100	64QAM	1	1	23.59	23.62	23.50	25.0	2.0	
100	256QAM	1	1	21.21	21.26	21.21	23.0	4.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.26	25.41	25.18	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.29	25.39	25.29	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.34	25.41	25.23	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.32	25.38	25.21	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.24	25.39	25.25	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.34	25.33	25.24	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.23	25.42	25.19	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.26	25.41	25.27	27.0	0.0	

Par27Q n77 Ant2 PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		3500.01		24.0	0.0	
100	PI2 BPSK	1	271		3500.01				
100	PI2 BPSK	135	0		3500.01		24.0	0.0	
100	PI2 BPSK	135	69		3500.01		24.0	0.0	
100	PI2 BPSK	135	138		3500.01				
100	PI2 BPSK	270	0		3500.01		24.0	0.0	
100	QPSK	1	1		3500.01				
100	QPSK	1	137		3500.01		24.0	0.0	
100	QPSK	1	271		3500.01				
100	QPSK	135	0		3500.01		24.0	0.0	
100	QPSK	135	69		3500.01		24.0	0.0	
100	QPSK	135	138		3500.01				
100	QPSK	270	0		3500.01		24.0	0.0	
100	16QAM	1	1		3500.01		23.0	1.0	
100	64QAM	1	1		3500.01		19.5	2.5	
100	256QAM	1	1		3500.01		15.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1		3500.01		24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1		3500.01		24.0	0.0	



Par27Q n77 Ant2 PC2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)	
Channel				3500.01				
Frequency (MHz)								
100	PI2 BPSK	1	1	25.67		27.0	0.0	
100	PI2 BPSK	1	137	25.56				
100	PI2 BPSK	1	271	25.52			0.0	
100	PI2 BPSK	135	0	24.53		27.0	3.5	
100	PI2 BPSK	135	69	25.71		27.0	0.0	
100	PI2 BPSK	135	138	25.17		27.0	3.5	
100	PI2 BPSK	270	0	25.03		28.5	0.5	
100	QPSK	1	1	25.72		27.0	0.0	
100	QPSK	1	137	25.09				
100	QPSK	1	271	25.44		27.0	3.5	
100	QPSK	135	0	24.01		27.0	0.0	
100	QPSK	135	69	25.66		27.0	0.0	
100	QPSK	135	138	25.44		27.0	3.5	
100	QPSK	270	0	25.11		28.5	0.5	
100	16QAM	1	1	25.11		28.0	1.0	
100	16QAM	1	1	23.58		25.0	2.5	
100	256QAM	1	1	21.39		23.0	4.5	
Channel				633060	633334	633698	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dB)	
90	QPSK	1	1	25.57	25.64	25.58	27.0	0.0
Channel				632668	633334	634000	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dB)	
80	QPSK	1	1	25.51	25.57	25.43	27.0	0.0
Channel				632334	633334	634334	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dB)	
70	QPSK	1	1	25.50	25.51	25.44	27.0	0.0
Channel				632000	633334	633668	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dB)	
60	QPSK	1	1	25.48	25.58	25.43	27.0	0.0
Channel				631668	633334	633000	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dB)	
50	QPSK	1	1	25.43	25.55	25.48	27.0	0.0
Channel				631334	633334	635334	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dB)	
40	QPSK	1	1	25.43	25.54	25.43	27.0	0.0
Channel				631000	633334	635668	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dB)	
30	QPSK	1	1	25.50	25.52	25.52	27.0	0.0
Channel				630668	633334	636000	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dB)	
20	QPSK	1	1	25.48	25.59	25.48	27.0	0.0

Part27O n78 Ant2 PC3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)	
Channel				3750				
Frequency (MHz)								
100	PI2 BPSK	1	1	22.36		24.0	0.0	
100	PI2 BPSK	1	137	22.35				
100	PI2 BPSK	1	271	22.29			0.0	
100	PI2 BPSK	135	0	22.36		24.0	0.0	
100	PI2 BPSK	135	69	22.29		24.0	0.0	
100	PI2 BPSK	135	138	22.14		24.0	0.0	
100	PI2 BPSK	270	0	22.19		24.0	0.0	
100	QPSK	1	1	22.49				
100	QPSK	1	137	22.37		24.0	0.0	
100	QPSK	1	271	22.17				
100	QPSK	135	0	22.24		24.0	0.0	
100	QPSK	135	69	22.26		24.0	0.0	
100	QPSK	135	138	22.19		24.0	0.0	
100	QPSK	270	0	22.21		24.0	0.0	
100	16QAM	1	1	22.26		24.0	0.0	
100	16QAM	1	1	22.38		24.0	0.0	
100	256QAM	1	1	21.37		23.0	1.0	
Channel				649668	650000	650334	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dB)	
90	QPSK	1	1	22.22	22.24	22.04	24.0	0.0
Channel				649334	650000	650668	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)	
80	QPSK	1	1	22.22	22.25	22.07	24.0	0.0
Channel				649000	650000	651000	MPR	
Frequency (MHz)				3735	3750	3765	(dB)	
70	QPSK	1	1	22.19	22.31	22.11	24.0	0.0
Channel				648668	650000	651334	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dB)	
60	QPSK	1	1	22.12	22.23	22.13	24.0	0.0
Channel				648334	650000	651668	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)	
50	QPSK	1	1	22.17	22.30	22.15	24.0	0.0
Channel				648000	650000	652000	MPR	
Frequency (MHz)				3720	3750	3790	(dB)	
40	QPSK	1	1	22.20	22.22	22.05	24.0	0.0
Channel				647668	650000	652334	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dB)	
30	QPSK	1	1	22.19	22.34	22.05	24.0	0.0
Channel				647334	650000	652668	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)	
20	QPSK	1	1	22.22	22.34	22.08	24.0	0.0

Part27O n78 Ant2 PC2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)	
Channel				3750				
Frequency (MHz)								
100	PI2 BPSK	1	1	25.26		27.0	0.0	
100	PI2 BPSK	1	137	25.25				
100	PI2 BPSK	1	271	25.25			0.0	
100	PI2 BPSK	135	0	25.21		27.0	0.0	
100	PI2 BPSK	135	69	25.18		27.0	0.0	
100	PI2 BPSK	135	138	25.06		27.0	0.0	
100	PI2 BPSK	270	0	25.13		27.0	0.0	
100	QPSK	1	1	25.28				
100	QPSK	1	137	25.24		27.0	0.0	
100	QPSK	1	271	25.20				
100	QPSK	135	0	24.77		28.5	0.5	
100	QPSK	135	69	25.20		27.0	0.0	
100	QPSK	135	138	24.88		28.5	0.5	
100	QPSK	270	0	24.65		27.0	0.0	
100	16QAM	1	1	25.11		27.0	0.0	
100	16QAM	1	1	23.58		25.0	2.0	
100	256QAM	1	1	21.39		23.0	4.0	
Channel				649668	650000	650334	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dB)	
90	QPSK	1	1	25.02	25.09	24.99	27.0	0.0
Channel				649334	650000	650668	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dB)	
80	QPSK	1	1	25.04	25.14	25.01	27.0	0.0
Channel				649000	650000	651000	MPR	
Frequency (MHz)				3735	3750	3765	(dB)	
70	QPSK	1	1	25.02	25.05	25.01	27.0	0.0
Channel				648668	650000	651334	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dB)	
60	QPSK	1	1	25.02	25.10	24.92	27.0	0.0
Channel				648334	650000	651668	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dB)	
50	QPSK	1	1	25.02	25.08	24.97	27.0	0.0
Channel				648000	650000	652000	MPR	
Frequency (MHz)				3720	3750	3790	(dB)	
40	QPSK	1	1	25.02	25.03	24.94	27.0	0.0
Channel				647668	650000	652334	MPR	
Frequency (MHz)				3715.02	3750	3785.01	(dB)	
30	QPSK	1	1	25.03	25.08	24.95	27.0	0.0
Channel				647334	650000	652668	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dB)	
20	QPSK	1	1	25.21	25.02	24.96	27.0	0.0



Par27Q n78 Ant2 PC3									
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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	22.54			24.0	0.0	
100	PI2 BPSK	1	137	22.50					
100	PI2 BPSK	1	271	22.89					
100	PI2 BPSK	135	0	22.54					
100	PI2 BPSK	135	69	22.81			24.0	0.0	
100	PI2 BPSK	135	138	22.80					
100	PI2 BPSK	270	0	22.49			24.0	0.0	
100	QPSK	1	1	22.71					
100	QPSK	1	137	22.80			24.0	0.0	
100	QPSK	1	271	22.81					
100	QPSK	135	0	22.83					
100	QPSK	135	69	22.58			23.5	0.0	
100	QPSK	135	138	22.58					
100	QPSK	270	0	22.49			24.0	0.0	
100	16QAM	1	1	21.57			24.0	1.0	
100	64QAM	1	1	20.33			22.0	2.5	
100	256QAM	1	1	18.16			20.0	4.5	
Channel				633000	633334	633668	MPR limit (dB)		
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.57	22.53	22.61	24.0	0.0	
Channel				632668	633334	634000	MPR limit (dB)		
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.49	22.53	22.52	24.0	0.0	
Channel				632334	633334	634334	MPR limit (dB)		
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.44	22.62	22.60	24.0	0.0	
Channel				632000	633334	634668	MPR limit (dB)		
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.43	22.60	22.58	24.0	0.0	
Channel				631668	633334	635000	MPR limit (dB)		
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1	22.48	22.57	22.61	24.0	0.0	
Channel				631334	633334	635334	MPR limit (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.52	22.58	22.52	24.0	0.0	
Channel				631000	633334	635668	MPR limit (dB)		
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.44	22.58	22.55	24.0	0.0	
Channel				630668	633334	636000	MPR limit (dB)		
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.43	22.56	22.60	24.0	0.0	

Par27Q n78 Ant2 PC3									
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				3500.01					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	25.27			27.0	0.0	
100	PI2 BPSK	1	137	25.16					
100	PI2 BPSK	1	271	25.22					
100	PI2 BPSK	135	0	24.12					
100	PI2 BPSK	135	69	25.36			27.0	0.0	
100	PI2 BPSK	135	138	24.79					
100	PI2 BPSK	270	0	24.71			26.5	0.5	
100	QPSK	1	1	25.39					
100	QPSK	1	137	24.72			27.0	0.0	
100	QPSK	1	271	25.15					
100	QPSK	135	0	23.70					
100	QPSK	135	69	25.31			27.0	0.0	
100	QPSK	135	138	25.09					
100	QPSK	270	0	24.27			26.5	0.5	
100	16QAM	1	1	23.25			24.0	1.0	
100	64QAM	1	1	21.84			24.5	2.5	
100	256QAM	1	1	20.59			22.5	4.5	
Channel				633000	633334	633668	MPR limit (dB)		
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	25.16	25.31	25.18	27.0	0.0	
Channel				632668	633334	634000	MPR limit (dB)		
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	25.23	25.29	25.30	27.0	0.0	
Channel				632334	633334	634334	MPR limit (dB)		
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	25.22	25.30	25.20	27.0	0.0	
Channel				632000	633334	634668	MPR limit (dB)		
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	25.21	25.34	25.16	27.0	0.0	
Channel				631668	633334	635000	MPR limit (dB)		
Frequency (MHz)				3475.02	3500.01	3505			
50	QPSK	1	1	25.28	25.25	25.21	27.0	0.0	
Channel				631334	633334	635334	MPR limit (dB)		
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	25.25	25.27	25.21	27.0	0.0	
Channel				631000	633334	635668	MPR limit (dB)		
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	25.26	25.36	25.23	27.0	0.0	
Channel				630668	633334	636000	MPR limit (dB)		
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	25.20	25.22	25.21	27.0	0.0	



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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	PI2 BPSK	1	1	22.83				
100	PI2 BPSK	1	137	22.43			24.0	0.0
100	PI2 BPSK	1	271	22.28				
100	PI2 BPSK	135	0	22.14			23.5	0.5
100	PI2 BPSK	135	69	22.39			24.0	0.0
100	PI2 BPSK	135	138	21.85			23.5	0.5
100	PI2 BPSK	270	0	21.91				
100	QPSK	1	1	22.94				
100	QPSK	1	137	22.45			24.0	0.0
100	QPSK	1	271	22.28				
100	QPSK	135	0	21.62			23.0	1.0
100	QPSK	135	69	22.36			24.0	0.0
100	QPSK	135	138	21.28			23.0	1.0
100	QPSK	270	0	21.38				
100	16QAM	1	1	21.58			23.0	1.0
100	16QAM	1	1	20.34			21.5	2.5
100	256QAM	1	1	18.21			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.45	22.62	22.35	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.42	22.54	22.34	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.51	22.54	22.45	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.31	22.58	22.37	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.40	22.63	22.50	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.52	22.44	22.36	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.38	22.60	22.47	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.40	22.55	22.50	24.0	0.0

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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	PI2 BPSK	1	1	25.54				
100	PI2 BPSK	1	137	25.51			27.0	0.0
100	PI2 BPSK	1	271	25.36				
100	PI2 BPSK	135	0	25.46			28.5	0.5
100	PI2 BPSK	135	69	25.42			27.0	0.0
100	PI2 BPSK	135	138	25.21			28.5	0.5
100	PI2 BPSK	270	0	25.38				
100	QPSK	1	1	25.58				
100	QPSK	1	137	25.42			27.0	0.0
100	QPSK	1	271	25.32				
100	QPSK	135	0	25.04			28.0	1.0
100	QPSK	135	69	25.37			27.0	0.0
100	QPSK	135	138	24.71			28.0	1.0
100	QPSK	270	0	25.02				
100	16QAM	1	1	25.07			28.0	1.0
100	16QAM	1	1	23.74			24.5	2.5
100	256QAM	1	1	21.69			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.35	25.38	25.32	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.31	25.43	25.36	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.34	25.45	25.34	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.28	25.42	25.31	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.30	25.46	25.34	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.32	25.40	25.38	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.32	25.42	25.40	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.31	25.45	25.41	27.0	0.0

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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	PI2 BPSK	1	1	35.00				
100	PI2 BPSK	1	137	35.03			24.0	0.0
100	PI2 BPSK	1	271	35.00				
100	PI2 BPSK	135	0	35.00			24.0	0.5
100	PI2 BPSK	135	69	35.03			24.0	0.0
100	PI2 BPSK	135	138	35.00			24.0	0.5
100	PI2 BPSK	270	0	35.00				
100	QPSK	1	1	35.03				
100	QPSK	1	137	35.00			24.0	0.0
100	QPSK	1	271	35.00				
100	QPSK	135	0	35.00			24.0	0.0
100	QPSK	135	69	35.00			24.0	0.0
100	QPSK	135	138	35.00			24.0	0.0
100	QPSK	270	0	35.00				
100	16QAM	1	1	35.00			24.0	1.0
100	16QAM	1	1	34.83			21.5	2.5
100	256QAM	1	1	34.78			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	34.95	35.00	35.05	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	34.90	35.00	35.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	34.90	35.00	35.00	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	34.90	35.00	35.00	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	34.90	35.00	35.00	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	34.90	35.00	35.00	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	34.90	35.00	35.00	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	34.90	35.00	35.00	24.0	0.0



Part27Q n78_PC2 Ant7

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	PV2 BPSK	1	1		26.21			
100	PV2 BPSK	1	137		26.16			
100	PV2 BPSK	1	271		26.02			26.5
100	PV2 BPSK	135	0		26.10			
100	PV2 BPSK	135	69		26.12			27.0
100	PV2 BPSK	135	138		26.09			26.5
100	PV2 BPSK	270	0		26.05			26.5
100	QPSK	1	1		26.25			
100	QPSK	1	137		26.13			27.0
100	QPSK	1	271		26.06			27.0
100	QPSK	135	0		25.71			27.0
100	QPSK	135	69		26.13			27.0
100	QPSK	135	138		25.85			26.0
100	QPSK	270	0		25.77			26.5
100	16QAM	1	1		25.59			26.0
100	64QAM	1	1		24.43			23.5
100	256QAM	1	1		22.31			22.5
	Channel			633000	633334	633668	1	MPR
	Frequency (MHz)			3485	3500.01	3505.02		(dB)
90	QPSK	1	1	26.05	26.07	26.10	27.0	0.0
	Channel			632000	633334	635000	1	MPR
	Frequency (MHz)			3490.02	3500.01	3510	limit	(dB)
80	QPSK	1	1	26.06	26.05	26.05	27.0	0.0
	Channel			632334	633334	634334	1	MPR
	Frequency (MHz)			3485.01	3500.01	3485.01	limit	(dB)
70	QPSK	1	1	25.99	26.03	26.07	27.0	0.0
	Channel			632000	633334	634668	1	MPR
	Frequency (MHz)			3480	3500.01	3520.02		(dB)
60	QPSK	1	1	26.00	26.04	26.10	27.0	0.0
	Channel			631000	633334	635000	1	MPR
	Frequency (MHz)			3475.02	3500.01	3525	limit	(dB)
50	QPSK	1	1	26.05	26.07	26.04	27.0	0.0
	Channel			631334	633334	635334	1	MPR
	Frequency (MHz)			3470.01	3500.01	3480.01	limit	(dB)
40	QPSK	1	1	26.02	26.09	26.04	27.0	0.0
	Channel			631000	633334	635668	1	MPR
	Frequency (MHz)			3465	3500.01	3535.02		(dB)
30	QPSK	1	1	26.03	26.02	26.08	27.0	0.0
	Channel			630000	633334	635000	1	MPR
	Frequency (MHz)			3460.02	3500.01	3540	limit	(dB)
20	QPSK	1	1	26.00	26.06	26.05	27.0	0.0



Reduced Power Mode for 5G NR

n2 Ant0 DSI2 Standalone&Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				37000	37600	38000			
Frequency (MHz)				1850	1860	1860			
20	Pi/2 BPSK	1	1	22.27	22.45	22.46			
20	Pi/2 BPSK	1	53	22.30	22.38	22.24	24.0	0.0	
20	Pi/2 BPSK	1	104	22.28	22.46	22.33			
20	Pi/2 BPSK	50	0	22.21	22.27	22.16	24.0	0.0	
20	Pi/2 BPSK	50	26	22.30	22.31	22.21	24.0	0.0	
20	Pi/2 BPSK	50	56	22.13	22.32	22.24	24.0	0.0	
20	Pi/2 BPSK	100	0	22.21	22.27	22.16			
20	QPSK	1	1	22.44	22.51	22.49			
20	QPSK	1	53	22.37	22.47	22.43	24.0	0.0	
20	QPSK	1	104	22.42	22.42	22.28			
20	QPSK	50	0	22.27	22.32	22.21	24.0	0.0	
20	QPSK	50	26	22.34	22.40	22.21	24.0	0.0	
20	QPSK	50	56	22.28	22.37	22.25	24.0	0.0	
20	QPSK	100	0	22.42	22.43	22.41			
20	16QAM	1	1	22.40	22.39	22.32	24.0	0.0	
20	64QAM	1	1	21.61	21.62	21.63	23.0	1.0	
20	256QAM	1	1	19.18	19.33	19.19	21.0	3.0	
Channel				37100	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1872.5	1860	1872.5	(dBm)	(dB)	
15	QPSK	1	1	22.29	22.34	22.45	24.0	0.0	
Channel				37100	37600	38100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1860	1805	(dBm)	(dB)	
10	QPSK	1	1	22.42	22.40	22.43	24.0	0.0	
Channel				37050	37000	38100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1860	1807.5	(dBm)	(dB)	
5	QPSK	1	1	22.27	22.38	22.46	24.0	0.0	

n5 Ant0 DSI2 Standalone&Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	838			
20	Pi/2 BPSK	1	1	22.15	22.27	22.20			
20	Pi/2 BPSK	1	53	22.32	22.11	22.23	24.0	0.0	
20	Pi/2 BPSK	1	104	22.02	22.01	22.32			
20	Pi/2 BPSK	50	0	22.04	22.03	22.35	24.0	0.0	
20	Pi/2 BPSK	50	26	22.10	22.14	22.11	24.0	0.0	
20	Pi/2 BPSK	50	56	22.34	22.11	22.04	24.0	0.0	
20	Pi/2 BPSK	100	0	22.33	22.14	22.37			
20	QPSK	1	1	22.22	22.43	22.22			
20	QPSK	1	53	22.07	22.11	22.04	24.0	0.0	
20	QPSK	1	104	22.12	22.13	22.05			
20	QPSK	50	0	22.17	22.21	22.01	24.0	0.0	
20	QPSK	50	26	22.17	22.32	22.20	24.0	0.0	
20	QPSK	50	56	22.12	22.13	22.10	24.0	0.0	
20	QPSK	100	0	22.12	22.20	22.34			
20	16QAM	1	1	22.22	22.34	22.34	24.0	0.0	
20	64QAM	1	1	22.32	22.12	22.21	23.0	1.0	
20	256QAM	1	1	20.02	20.21	20.02	21.0	3.0	
Channel				166900	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.16	22.31	22.01	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.08	22.22	22.22	24.0	0.0	
Channel				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				846.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.20	22.25	22.10	24.0	0.0	

n12 Ant0 DSI2 Standalone&Simultaneous									
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				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pi/2 BPSK	1	1	23.13	23.12	23.07			
15	Pi/2 BPSK	1	40	23.11	23.15	22.95	24.0	0.0	
15	Pi/2 BPSK	1	77	23.08	23.09	23.03			
15	Pi/2 BPSK	36	0	22.67	22.67	22.46	23.5	0.5	
15	Pi/2 BPSK	36	22	22.96	23.07	22.94	24.0	0.0	
15	Pi/2 BPSK	36	43	22.62	22.61	22.59	23.5	0.5	
15	Pi/2 BPSK	75	0	22.63	22.72	22.66			
15	QPSK	1	1	23.16	23.21	23.08			
15	QPSK	1	40	23.17	23.19	23.15	24.0	0.0	
15	QPSK	1	77	23.15	23.17	23.09			
15	QPSK	36	0	22.17	22.22	22.03	23.0	1.0	
15	QPSK	36	22	23.06	23.15	23.08	24.0	0.0	
15	QPSK	36	43	22.10	22.19	22.00	23.0	1.0	
15	QPSK	75	0	22.28	22.29	22.10			
15	16QAM	1	1	22.16	22.21	22.03	23.0	1.0	
15	64QAM	1	1	20.83	20.97	20.80	21.5	2.5	
15	256QAM	1	1	18.68	18.83	18.76	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	(dBm)	(dB)	
10	QPSK	1	1	23.08	23.21	23.08	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)	
5	QPSK	1	1	22.96	23.12	23.05	24.0	0.0	



n25 Ant0 DSI2 Standalone&Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Mid/H Ch. / Freq	High Ch. / Freq			
Channel				372000	376500	381000			
Frequency (MHz)				1860	1862.5	1865			
20	PI2 BPSK	1	1	22.35	22.34	22.15			
20	PI2 BPSK	1	63	22.20	22.31	22.17	24.0	0.0	
20	PI2 BPSK	1	104	22.33	22.33	22.23			
20	PI2 BPSK	50	0	22.12	22.31	22.20	24.0	0.0	
20	PI2 BPSK	50	26	22.05	22.27	22.16	24.0	0.0	
20	PI2 BPSK	50	56	22.12	22.24	22.10	24.0	0.0	
20	PI2 BPSK	100	0	22.16	22.27	22.22			
20	QPSK	1	1	22.36	22.63	22.47			
20	QPSK	1	63	22.17	22.36	22.22	24.0	0.0	
20	QPSK	1	104	22.37	22.39	22.20			
20	QPSK	50	0	22.27	22.32	22.17	24.0	0.0	
20	QPSK	50	26	22.23	22.34	22.15	24.0	0.0	
20	QPSK	50	56	22.22	22.31	22.25	24.0	0.0	
20	QPSK	100	0	22.33	22.35	22.33			
20	16QAM	1	1	22.39	22.43	22.32	24.0	0.0	
20	64QAM	1	1	21.47	21.55	21.34	23.0	1.0	
20	256QAM	1	1	19.18	19.28	19.08	21.0	3.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1872.5	1862.5	1872.5			
15	QPSK	1	1	22.40	22.55	22.20	24.0	0.0	
Channel				371000	376500	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1910			
10	QPSK	1	1	22.45	22.31	22.25	24.0	0.0	
Channel				370500	376500	375500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1862.5	1912.5			
5	QPSK	1	1	22.57	22.47	22.28	24.0	0.0	

n26 Ant0 DSI2 Standalone&Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Mid/H Ch. / Freq	High Ch. / Freq			
Channel				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	22.55	22.65	22.49			
20	PI2 BPSK	1	63	22.43	22.58	22.49	24.0	0.0	
20	PI2 BPSK	1	104	22.56	22.62	22.45			
20	PI2 BPSK	50	0	22.61	22.67	22.53	24.0	0.0	
20	PI2 BPSK	50	26	22.59	22.64	22.56	24.0	0.0	
20	PI2 BPSK	50	56	22.45	22.58	22.40	24.0	0.0	
20	PI2 BPSK	100	0	22.54	22.67	22.61			
20	QPSK	1	1	22.58	22.73	22.66			
20	QPSK	1	63	22.57	22.64	22.52	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.65			
20	QPSK	50	0	22.59	22.66	22.55	24.0	0.0	
20	QPSK	50	26	22.54	22.72	22.63	24.0	0.0	
20	QPSK	50	56	22.52	22.63	22.48	24.0	0.0	
20	QPSK	100	0	22.58	22.72	22.57			
20	16QAM	1	1	22.63	22.69	22.58	24.0	0.0	
20	64QAM	1	1	21.57	22.09	21.52	23.5	0.5	
20	256QAM	1	1	19.72	19.77	19.59	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.42	22.69	22.49	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.40	22.60	22.53	24.0	0.0	
Channel				163300	166300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.53	22.65	22.50	24.0	0.0	



n66 Ant0 DSI2 Standalone&Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dbm)	MPR (dB)	
				Low Ch. / Freq	Midst Ch. / Freq	High Ch. / Freq			
Channel				346000	349000	352000			
Frequency (MHz)				1722	1745	1768			
20	PI2 BPSK	1	1	23.05	23.11	23.04			
40	PI2 BPSK	1	108	22.99	23.05	22.92	24.0	0.0	
40	PI2 BPSK	1	214	22.92	23.05	22.84			
40	PI2 BPSK	108	0	22.85	22.97	22.85	24.0	0.0	
40	PI2 BPSK	54	54	23.07	23.06	23.02	24.0	0.0	
40	PI2 BPSK	108	108	23.22	23.21	23.11	24.0	0.0	
40	PI2 BPSK	216	0	22.86	23.05	22.93			
40	QPSK	1	1	23.16	23.22	23.23			
40	QPSK	1	108	22.93	23.07	23.08	24.0	0.0	
40	QPSK	1	214	23.01	23.17	23.10			
40	QPSK	108	0	23.11	23.16	23.08	24.0	0.0	
40	QPSK	108	54	23.25	23.27	22.85	24.0	0.0	
40	QPSK	108	108	23.25	23.11	23.16	24.0	0.0	
40	QPSK	216	0	23.06	23.16	23.15			
40	16QAM	1	1	23.16	23.24	23.24	24.0	0.0	
40	64QAM	1	1	23.05	23.17	22.65	23.0	1.0	
40	256QAM	1	1	19.66	19.84	19.73	21.0	3.0	
Channel				345000	349000	353000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1722	1745	1768			
30	QPSK	1	1	23.14	23.20	23.24	24.0	0.0	
Channel				346000	349000	354000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.14	23.22	23.05	24.0	0.0	
Channel				345000	349000	345000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.01	23.12	23.05	24.0	0.0	
Channel				345000	349000	355000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.09	23.10	23.05	#REF!	0.0	
Channel				342000	349000	359000	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5			
5	QPSK	1	1	23.12	23.23	23.03	24.0	0.0	

n71 Ant0 DSI2 Standalone&Simultaneous									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dbm)	MPR (dB)	
				Low Ch. / Freq	Midst Ch. / Freq	High Ch. / Freq			
Channel				134600	136100	137600			
Frequency (MHz)				673	680.5	686			
20	PI2 BPSK	1	1	22.83	22.93	22.75			
20	PI2 BPSK	1	53	22.83	22.99	22.90	24.0	0.0	
20	PI2 BPSK	1	104	22.87	22.79	22.59			
20	PI2 BPSK	50	0	22.74	22.94	22.67	24.0	0.0	
20	PI2 BPSK	50	59	22.91	22.98	22.90	24.0	0.0	
20	PI2 BPSK	50	56	22.77	22.85	22.64	24.0	0.0	
20	PI2 BPSK	100	0	22.92	23.01	22.86			
20	QPSK	1	1	23.02	23.13	22.96			
20	QPSK	1	53	22.89	22.95	22.85	24.0	0.0	
20	QPSK	1	104	22.83	22.70	22.69			
20	QPSK	50	0	22.86	22.85	22.84	24.0	0.0	
20	QPSK	50	28	22.78	22.86	22.81	24.0	0.0	
20	QPSK	50	56	22.85	22.85	22.80	24.0	0.0	
20	QPSK	100	0	22.98	22.97	22.82			
20	16QAM	1	1	22.96	23.08	23.09	24.0	0.0	
20	64QAM	1	1	22.25	22.45	22.34	24.0	0.0	
20	256QAM	1	1	20.11	20.09	20.08	21.0	3.0	
Channel				134100	136100	138100	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.02	22.95	22.83	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.97	23.00	22.80	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dbm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.88	23.04	22.93	24.0	0.0	



n41 Ant0 DSI2 Standalone&Simultaneous PC3									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	22.96	23.11	22.98			
100	PI/2 BPSK	1	137	23.22	23.26	23.23	24.0	0.0	
100	PI/2 BPSK	1	271	23.02	23.14	23.16			
100	PI/2 BPSK	135	0	22.79	22.78	22.66	23.5	0.5	
100	PI/2 BPSK	135	69	23.04	23.19	23.08	24.0	0.0	
100	PI/2 BPSK	135	138	22.73	22.75	22.68	23.5	0.5	
100	PI/2 BPSK	270	0	22.53	22.72	22.63			
100	QPSK	1	1	23.21	23.33	23.25			
100	QPSK	1	137	23.06	23.17	23.00	24.0	0.0	
100	QPSK	1	271	23.21	23.23	23.16			
100	QPSK	135	0	22.20	22.22	22.07	23.0	1.0	
100	QPSK	135	69	23.06	23.14	23.02	24.0	0.0	
100	QPSK	135	138	22.21	22.21	22.22	23.0	1.0	
100	QPSK	270	0	22.06	22.14	22.02	23.0	1.0	
100	16QAM	1	1	22.34	22.42	22.39	23.0	1.0	
100	64QAM	1	1	20.69	20.86	20.71	21.5	2.5	
100	256QAM	1	1	18.47	18.61	18.56	19.5	4.5	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.20	23.17	23.13	24.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.15	23.24	23.23	24.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	23.12	23.27	23.16	24.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.14	23.25	23.23	24.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.04	23.31	23.11	24.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.23	23.15	23.15	24.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.08	23.31	23.16	24.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.13	23.32	23.20	24.0	0.0	

n41 Ant0 DSI2 Standalone&Simultaneous PC2									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	26.20	26.23	26.06			
100	PI/2 BPSK	1	137	26.01	26.18	26.04	27.0	0.0	
100	PI/2 BPSK	1	271	26.29	26.27	26.19			
100	PI/2 BPSK	135	0	26.08	26.13	25.98	26.5	0.5	
100	PI/2 BPSK	135	69	26.15	26.21	26.19	27.0	0.0	
100	PI/2 BPSK	135	138	26.20	26.18	26.05	26.5	0.5	
100	PI/2 BPSK	270	0	25.99	26.18	25.97			
100	QPSK	1	1	26.22	26.32	26.21			
100	QPSK	1	137	26.15	26.21	26.19	27.0	0.0	
100	QPSK	1	271	26.14	26.24	26.09			
100	QPSK	135	0	25.73	25.78	25.69	26.0	1.0	
100	QPSK	135	69	26.11	26.15	26.07	27.0	0.0	
100	QPSK	135	138	25.86	25.86	25.77	26.0	1.0	
100	QPSK	270	0	25.62	25.73	25.60	26.0	1.0	
100	16QAM	1	1	25.75	25.91	25.86	26.0	1.0	
100	64QAM	1	1	24.31	24.35	24.27	24.5	2.5	
100	256QAM	1	1	22.03	22.11	21.99	22.5	4.5	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	26.16	26.18	26.08	27.0	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	26.13	26.14	26.08	27.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	26.11	26.24	26.12	27.0	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	26.18	26.26	26.22	27.0	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	26.11	26.26	26.06	27.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	26.19	26.26	26.05	27.0	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	26.05	26.26	26.15	27.0	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	26.02	26.29	26.03	27.0	0.0	



n2 Ant1 DSI2 Standalone Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.			
Channel				1600	1680	1800			
Frequency (MHz)				15.60	15.69	15.69			
20	PI2 BPSK	1	1	15.60	15.69	15.69			
20	PI2 BPSK	1	53	15.43	15.55	15.45	16.9	0.0	
20	PI2 BPSK	1	104	15.39	15.46	15.36			
20	PI2 BPSK	50	0	15.43	15.53	15.39	16.9	0.0	
20	PI2 BPSK	50	28	15.37	15.48	15.39	16.9	0.0	
20	PI2 BPSK	50	56	15.29	15.42	15.28			
20	PI2 BPSK	100	0	15.34	15.47	15.42	16.9	0.0	
20	QPSK	1	1	15.69	15.71	15.51			
20	QPSK	1	53	15.51	15.56	15.48	16.9	0.0	
20	QPSK	1	104	15.32	15.47	15.39			
20	QPSK	50	0	15.44	15.47	15.41	16.9	0.0	
20	QPSK	50	28	15.41	15.49	15.37	16.9	0.0	
20	QPSK	50	56	15.30	15.43	15.31			
20	QPSK	100	0	15.34	15.46	15.37	16.9	0.0	
20	16QAM	1	1	15.47	15.59	15.53	16.9	0.0	
20	16QAM	1	1	15.43	15.52	15.41	16.9	0.0	
20	256QAM	1	1	15.47	15.58	15.43	16.9	0.0	
Channel				371000	376000	386000	Tune-up limit	MPR	
Frequency (MHz)				1827.5	1880	1927.5	(dBm)	(dB)	
15	QPSK	1	1	15.65	15.69	15.68	16.9	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1880	1895	(dBm)	(dB)	
10	QPSK	1	1	15.64	15.70	15.67	16.9	0.0	
Channel				371000	376000	371000	Tune-up limit	MPR	
Frequency (MHz)				1892.5	1880	1897.5	(dBm)	(dB)	
5	QPSK	1	1	15.59	15.67	15.53	16.9	0.0	

n5 Ant1 DSI2 Standalone Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.			
Channel				166800	167300	167600			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	22.07	22.21	22.15			
20	PI2 BPSK	1	53	22.86	22.95	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.92	22.98	22.86			
20	PI2 BPSK	50	0	22.97	23.05	22.87	24.0	0.0	
20	PI2 BPSK	50	28	23.05	23.01	23.01	24.0	0.0	
20	PI2 BPSK	50	56	22.89	23.05	22.97			
20	PI2 BPSK	100	0	22.86	23.02	22.84	24.0	0.0	
20	QPSK	1	1	23.25	23.39	23.29			
20	QPSK	1	53	23.02	23.02	22.94	24.0	0.0	
20	QPSK	1	104	23.08	23.05	22.92			
20	QPSK	50	0	23.04	23.12	22.93	24.0	0.0	
20	QPSK	50	28	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	23.12	23.19	23.10			
20	QPSK	100	0	23.02	23.20	23.14	24.0	0.0	
20	16QAM	1	1	23.16	23.19	23.24	24.0	0.0	
20	16QAM	1	1	22.91	22.52	22.44	23.0	1.0	
20	256QAM	1	1	19.94	20.22	19.95	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	23.16	23.31	23.01	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	23.06	23.28	23.22	24.0	0.0	
Channel				166300	167300	167300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	836.5	(dBm)	(dB)	
5	QPSK	1	1	23.20	23.25	23.10	24.0	0.0	

n7 Ant1 DSI2 Standalone Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.			
Channel				506000	507000	510000			
Frequency (MHz)				2530	2535	2550			
40	PI2 BPSK	1	1	16.72	16.63	16.76			
40	PI2 BPSK	1	108	16.59	16.65	16.56	18.2	0.0	
40	PI2 BPSK	1	214	16.49	16.64	16.58			
40	PI2 BPSK	108	0	16.58	16.69	16.56	18.2	0.0	
40	PI2 BPSK	108	84	16.45	16.58	16.46	18.2	0.0	
40	PI2 BPSK	108	168	16.54	16.67	16.56			
40	PI2 BPSK	216	0	16.57	16.84	16.55	18.2	0.0	
40	QPSK	1	1	16.73	16.79	16.70			
40	QPSK	1	108	16.55	16.66	16.58	18.2	0.0	
40	QPSK	1	214	16.05	16.09	16.03			
40	QPSK	108	0	16.66	16.58	16.66	18.2	0.0	
40	QPSK	108	84	16.49	16.76	16.44	18.2	0.0	
40	QPSK	108	168	16.59	16.65	16.58			
40	QPSK	216	0	16.57	16.73	16.62	18.2	0.0	
40	16QAM	1	1	16.61	16.71	16.60	18.2	0.0	
40	16QAM	1	1	16.54	16.63	16.50	18.2	0.0	
40	256QAM	1	1	16.63	16.71	16.61	18.2	0.0	
Channel				506000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2535	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	16.59	16.62	16.55	18.2	0.0	
Channel				505500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	16.56	16.64	16.60	18.2	0.0	
Channel				505500	507000	505500	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	16.51	16.70	16.57	18.2	0.0	
Channel				507000	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2567.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	16.61	16.68	16.53	18.2	0.0	
Channel				507000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2565	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	16.58	16.63	16.58	18.2	0.0	
Channel				506500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2562.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	16.53	16.65	16.57	18.2	0.0	



n25 Ant1 DSI2 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				372000	376500	381000				
Frequency (MHz)				1890	1892.5	1905				
20	PI2 BPSK	1	1	15.84	15.79	15.71				
20	PI2 BPSK	1	83	15.48	15.55	15.40	16.9	0.0		
20	PI2 BPSK	1	104	15.48	15.59	15.48				
20	PI2 BPSK	50	0	15.46	15.57	15.45	16.9	0.0		
20	PI2 BPSK	50	26	15.49	15.58	15.50	16.9	0.0		
20	PI2 BPSK	50	56	15.44	15.59	15.52				
20	PI2 BPSK	100	0	15.50	15.64	15.58	16.9	0.0		
20	QPSK	1	1	15.85	15.89	15.79				
20	QPSK	1	83	15.50	15.57	15.46	16.9	0.0		
20	QPSK	1	104	15.54	15.63	15.48				
20	QPSK	50	0	15.47	15.55	15.56	16.9	0.0		
20	QPSK	50	26	15.45	15.62	15.50	16.9	0.0		
20	QPSK	50	56	15.49	15.56	15.41				
20	QPSK	100	0	15.50	15.61	15.55	16.9	0.0		
20	16QAM	1	1	15.55	15.63	15.56	16.9	0.0		
20	64QAM	1	1	15.48	15.60	15.54	16.9	0.0		
20	256QAM	1	1	15.62	15.67	15.58	16.9	0.0		
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1887.5	1892.5	1907.5	(dBm)	(dB)		
15	QPSK	1	1	15.72	15.84	15.81	16.9	0.0		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1865	1882.5	1910	(dBm)	(dB)		
10	QPSK	1	1	15.69	15.90	15.75	16.9	0.0		
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1852.5	1882.5	1912.5	(dBm)	(dB)		
5	QPSK	1	1	15.77	15.87	15.84	16.9	0.0		

n30 Ant1 DSI2 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				461500	466500	471500				
Frequency (MHz)				2310						
10	PI2 BPSK	1	1	17.54						
10	PI2 BPSK	1	26	17.56			19.0	0.0		
10	PI2 BPSK	1	50	17.57						
10	PI2 BPSK	25	0	17.67			19.0	0.0		
10	PI2 BPSK	25	14	17.60			19.0	0.0		
10	PI2 BPSK	25	27	17.59			19.0	0.0		
10	PI2 BPSK	50	0	17.69			19.0	0.0		
10	QPSK	1	1	17.75						
10	QPSK	1	26	17.51			19.0	0.0		
10	QPSK	1	50	17.58						
10	QPSK	25	0	17.43			19.0	0.0		
10	QPSK	25	14	17.53			19.0	0.0		
10	QPSK	25	27	17.34						
10	QPSK	50	0	17.47			19.0	0.0		
10	16QAM	1	1	17.49			19.0	0.0		
10	64QAM	1	1	17.71			19.0	0.0		
10	256QAM	1	1	17.40			19.0	0.0		
Channel				461500	466500	472000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)		
5	QPSK	1	1	17.36	17.41	17.43	19.0	0.0		

n66 Ant1 DSI2 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				346000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI2 BPSK	1	1	16.19	16.29	16.24				
40	PI2 BPSK	1	108	15.98	16.11	16.28	17.8	0.0		
40	PI2 BPSK	1	214	16.12	16.20	16.23				
40	PI2 BPSK	108	0	16.29	16.36	16.10	17.8	0.0		
40	PI2 BPSK	108	54	16.40	16.27	16.22	17.8	0.0		
40	PI2 BPSK	108	108	16.16	16.23	16.11	17.8	0.0		
40	PI2 BPSK	216	0	16.33	16.30	16.40				
40	QPSK	1	1	16.44	16.46	16.41				
40	QPSK	1	108	16.21	16.25	16.20	17.8	0.0		
40	QPSK	1	214	16.31	16.18	16.25				
40	QPSK	108	0	16.16	16.18	16.15	17.8	0.0		
40	QPSK	108	54	16.31	16.45	16.38	17.8	0.0		
40	QPSK	108	108	16.32	16.25	16.28				
40	QPSK	216	0	16.34	16.39	16.36	17.8	0.0		
40	16QAM	1	1	16.11	16.17	16.04	17.8	0.0		
40	64QAM	1	1	16.22	16.25	16.12	17.8	0.0		
40	256QAM	1	1	16.11	16.10	16.22	17.8	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	16.04	16.17	16.03	17.8	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	16.04	16.20	16.02	17.8	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	16.09	16.14	16.06	17.8	0.0		
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	16.08	16.18	16.05	17.8	0.0		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	16.08	16.16	16.04	17.8	0.0		



n71 Ant1 DSI2 Standalone Power

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	Power High Ch. Freq		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	685		
20	PI2 BPSK	1	1	22.60	22.78	22.79		
20	PI2 BPSK	1	53	22.65	22.87	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.63	22.65	22.55		
20	PI2 BPSK	50	0	22.64	22.84	22.85	24.0	0.0
20	PI2 BPSK	50	99	22.67	22.88	22.77	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.81	22.61	24.0	0.0
20	PI2 BPSK	100	0	22.69	22.88	22.65		
20	QPSK	1	1	22.73	22.92	22.86		
20	QPSK	1	53	22.81	22.85	22.79	24.0	0.0
20	QPSK	1	104	22.61	22.67	22.65		
20	QPSK	50	0	22.80	22.83	22.81	24.0	0.0
20	QPSK	50	99	22.75	22.87	22.71	24.0	0.0
20	QPSK	50	56	22.61	22.81	22.81	24.0	0.0
20	QPSK	100	0	22.68	22.83	22.68		
20	16QAM	1	1	22.70	22.86	22.69	24.0	0.0
20	64QAM	1	1	22.79	22.95	22.71	23.9	1.0
20	256QAM	1	1	20.05	20.05	20.00	21.0	3.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.71	22.88	22.68	24.0	0.0
Channel				133500	136100	138500		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.55	22.84	22.73	24.0	0.0
Channel				133100	135100	137100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.59	22.84	22.70	24.0	0.0



n2 Ant1 DS12 Simultaneous Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				1860	1880	1900			
20	Pl2 BPSK	1	1	14.36	14.40	14.42			
20	Pl2 BPSK	1	53	14.10	14.21	14.06	15.6	0.0	
20	Pl2 BPSK	1	104	14.14	14.27	14.17			
20	Pl2 BPSK	50	0	14.07	14.18	14.08	15.6	0.0	
20	Pl2 BPSK	50	28	14.01	14.14	14.07	15.6	0.0	
20	Pl2 BPSK	50	56	14.06	14.14	14.01			
20	Pl2 BPSK	100	0	14.11	14.19	14.09	15.6	0.0	
20	QPSK	1	1	14.30	14.36	14.45			
20	QPSK	1	53	14.06	14.17	14.05	15.6	0.0	
20	QPSK	1	104	14.19	14.25	14.19			
20	QPSK	50	0	14.12	14.16	14.19	15.6	0.0	
20	QPSK	50	28	14.07	14.27	14.06	15.6	0.0	
20	QPSK	50	56	14.02	14.10	14.04			
20	QPSK	100	0	14.14	14.28	14.14			
20	16QAM	1	1	14.15	14.26	14.11	15.6	0.0	
20	16QAM	1	1	14.12	14.24	14.10	15.6	0.0	
20	256QAM	1	1	14.15	14.28	14.18	15.6	0.0	
Channel									
Frequency (MHz)				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	1827.5	1880	1927.5			
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	1855	1880	1905			
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	1824	1838	1835	15.6	0.0	
Channel									
Frequency (MHz)				1892.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	14.25	14.33	14.34	15.6	0.0	

n5 Ant1 DS12 Simultaneous Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				166800	167300	167800			
20	Pl2 BPSK	1	1	23.07	23.21	23.15			
20	Pl2 BPSK	1	53	22.86	22.95	22.79	24.0	0.0	
20	Pl2 BPSK	1	104	22.92	22.98	22.86			
20	Pl2 BPSK	50	0	22.97	23.05	22.87	24.0	0.0	
20	Pl2 BPSK	50	28	23.05	23.01	23.01	24.0	0.0	
20	Pl2 BPSK	50	56	22.89	23.05	22.97			
20	Pl2 BPSK	100	0	22.86	23.02	22.84	24.0	0.0	
20	QPSK	1	1	23.25	23.39	23.29			
20	QPSK	1	53	23.02	23.02	22.94	24.0	0.0	
20	QPSK	1	104	23.08	23.05	22.92			
20	QPSK	50	0	23.04	23.12	22.93	24.0	0.0	
20	QPSK	50	28	23.19	23.22	23.15	24.0	0.0	
20	QPSK	50	56	23.12	23.19	23.10			
20	QPSK	100	0	23.02	23.20	23.14	24.0	0.0	
20	16QAM	1	1	23.16	23.19	23.24	24.0	0.0	
20	16QAM	1	1	22.91	22.52	22.44	23.0	1.0	
20	256QAM	1	1	19.94	20.22	19.95	21.0	3.0	
Channel									
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.16	23.31	23.01	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168300	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.06	23.28	23.22	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.20	23.25	23.10	24.0	0.0	

n7 Ant1 DS12 Simultaneous Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel									
Frequency (MHz)				506000	507000	510000			
40	Pl2 BPSK	1	1	15.55	15.71	15.68			
40	Pl2 BPSK	1	108	15.26	15.99	15.57	16.9	0.0	
40	Pl2 BPSK	1	214	15.47	15.54	15.44			
40	Pl2 BPSK	108	0	15.43	15.40	15.33	16.9	0.0	
40	Pl2 BPSK	108	84	15.38	15.43	15.38	16.9	0.0	
40	Pl2 BPSK	108	108	15.32	15.55	15.30			
40	Pl2 BPSK	216	0	15.40	15.81	15.41	16.9	0.0	
40	QPSK	1	1	15.78	15.79	15.87			
40	QPSK	1	108	15.31	15.63	15.28	16.9	0.0	
40	QPSK	1	214	15.38	15.90	15.40			
40	QPSK	108	0	15.41	15.44	15.37	16.9	0.0	
40	QPSK	108	84	15.45	15.56	15.34	16.9	0.0	
40	QPSK	108	108	15.39	15.46	15.42	16.9	0.0	
40	QPSK	216	0	15.47	15.51	15.48			
40	16QAM	1	1	15.48	15.56	15.47	16.9	0.0	
40	16QAM	1	1	15.53	15.77	15.72	16.9	0.0	
40	256QAM	1	1	15.51	15.50	15.52	16.9	0.0	
Channel									
Frequency (MHz)				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	16.49	16.62	16.55	16.9	0.0	
Channel									
Frequency (MHz)				505500	507000	510000	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	16.25	16.35	16.27	16.9	0.0	
Channel									
Frequency (MHz)				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	16.41	16.70	16.57	16.9	0.0	
Channel									
Frequency (MHz)				507000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	16.61	16.68	16.53	16.9	0.0	
Channel									
Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.58	16.83	16.58	16.9	0.0	
Channel									
Frequency (MHz)				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	16.53	16.65	16.57	16.9	0.0	



n25 Ant1 DS12 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				372000	376500	381000				
Frequency (MHz)				14.47	14.61	14.74				
20	PI2 BPSK	1	1	14.47	14.61	14.74				
20	PI2 BPSK	1	63	14.20	14.33	14.26	15.6		0.0	
20	PI2 BPSK	1	104	14.33	14.42	14.30				
20	PI2 BPSK	50	0	14.18	14.31	14.24	15.6		0.0	
20	PI2 BPSK	50	26	14.10	14.33	14.21	15.6		0.0	
20	PI2 BPSK	50	56	14.23	14.30	14.20				
20	PI2 BPSK	100	0	14.29	14.38	14.22	15.6		0.0	
20	QPSK	1	1	14.63	14.65	14.60				
20	QPSK	1	63	14.30	14.40	14.32	15.6		0.0	
20	QPSK	1	104	14.23	14.38	14.31				
20	QPSK	50	0	14.29	14.30	14.25	15.6		0.0	
20	QPSK	50	26	14.16	14.37	14.25	15.6		0.0	
20	QPSK	50	56	14.13	14.26	14.15				
20	QPSK	100	0	14.22	14.33	14.23	15.6		0.0	
20	16QAM	1	1	14.30	14.37	14.31	15.6		0.0	
20	64QAM	1	1	14.31	14.40	14.26	15.6		0.0	
20	256QAM	1	1	14.32	14.42	14.29	15.6		0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)		MPR	
Frequency (MHz)				13.75	13.85	13.95	(dB)		(dB)	
15	QPSK	1	1	13.82	13.70	13.80	15.6		0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				13.65	13.65	13.65	(dB)		(dB)	
10	QPSK	1	1	13.85	13.68	13.61	15.6		0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)		MPR	
Frequency (MHz)				13.65	13.65	13.65	(dB)		(dB)	
5	QPSK	1	1	13.80	13.61	13.66	15.6		0.0	

n30 Ant1 DS12 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				461500	466500	471500				
Frequency (MHz)				23.10	23.10	23.10				
10	PI2 BPSK	1	1	23.09	23.10	23.10				
10	PI2 BPSK	1	26	15.80	15.80	15.80	17.5		0.0	
10	PI2 BPSK	1	50	15.73	15.73	15.73				
10	PI2 BPSK	25	0	15.62	15.62	15.62	17.5		0.0	
10	PI2 BPSK	25	14	15.74	15.74	15.74	17.5		0.0	
10	PI2 BPSK	25	27	15.64	15.64	15.64	17.5		0.0	
10	PI2 BPSK	50	0	15.81	15.81	15.81				
10	QPSK	1	1	16.13	16.13	16.13				
10	QPSK	1	26	15.63	15.63	15.63	17.5		0.0	
10	QPSK	1	50	15.77	15.77	15.77				
10	QPSK	25	0	15.74	15.74	15.74	17.5		0.0	
10	QPSK	25	14	15.86	15.86	15.86	17.5		0.0	
10	QPSK	25	27	15.65	15.65	15.65	17.5		0.0	
10	QPSK	50	0	15.86	15.86	15.86	17.5		0.0	
10	16QAM	1	1	15.76	15.76	15.76	17.5		0.0	
10	64QAM	1	1	15.87	15.87	15.87	17.5		0.0	
10	256QAM	1	1	15.78	15.78	15.78	17.5		0.0	
Channel				461500	466500	471500	Tune-up limit (dBm)		MPR	
Frequency (MHz)				23.075	23.10	23.125	(dBm)		(dB)	
5	QPSK	1	1	15.91	15.81	15.82	17.5		0.0	

n66 Ant1 DS12 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				346000	349000	352000				
Frequency (MHz)				17.20	17.45	17.60				
40	PI2 BPSK	1	1	15.15	15.12	15.11				
40	PI2 BPSK	1	108	14.93	15.04	14.91	16.3		0.0	
40	PI2 BPSK	1	214	15.00	15.12	14.98				
40	PI2 BPSK	108	0	14.88	14.88	14.83	16.3		0.0	
40	PI2 BPSK	108	54	14.93	15.05	14.99	16.3		0.0	
40	PI2 BPSK	108	108	15.07	15.12	15.01				
40	PI2 BPSK	216	0	14.98	15.05	14.94	16.3		0.0	
40	QPSK	1	1	15.22	15.21	15.19				
40	QPSK	1	108	14.92	15.03	14.90	16.3		0.0	
40	QPSK	1	214	14.97	15.11	15.01				
40	QPSK	108	0	15.07	15.08	15.03	16.3		0.0	
40	QPSK	108	54	15.09	15.21	15.11	16.3		0.0	
40	QPSK	108	108	14.98	15.05	14.91				
40	QPSK	216	0	14.99	15.10	15.03	16.3		0.0	
40	16QAM	1	1	14.89	14.99	14.92	16.3		0.0	
40	64QAM	1	1	14.92	15.05	14.99	16.3		0.0	
40	256QAM	1	1	14.98	15.03	14.93	16.3		0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				17.25	17.45	17.65	(dBm)		(dB)	
30	QPSK	1	1	15.07	15.12	14.99	16.3		0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				17.20	17.45	17.70	(dBm)		(dB)	
20	QPSK	1	1	15.04	15.17	15.03	16.3		0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				17.175	17.45	17.725	(dBm)		(dB)	
15	QPSK	1	1	15.05	15.09	15.03	16.3		0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				17.15	17.45	17.75	(dBm)		(dB)	
10	QPSK	1	1	15.08	15.10	14.97	16.3		0.0	
Channel				342000	349000	355000	Tune-up limit (dBm)		MPR	
Frequency (MHz)				17.225	17.45	17.725	(dBm)		(dB)	
5	QPSK	1	1	15.05	15.16	14.98	16.3		0.0	



n71 Ant1 DS12 Simultaneous Power

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 134600	Middle Ch. Freq. 136100	High Ch. Freq. 137600		
Channel				675	680.5	685		
Frequency (MHz)								
20	PI2 BPSK	1	1	22.60	22.78	22.79		
20	PI2 BPSK	1	53	22.65	22.87	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.63	22.65	22.55		
20	PI2 BPSK	50	0	22.64	22.84	22.85	24.0	0.0
20	PI2 BPSK	50	99	22.67	22.88	22.77	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.81	22.61	24.0	0.0
20	PI2 BPSK	100	0	22.69	22.88	22.65		
20	QPSK	1	1	22.73	22.92	22.86		
20	QPSK	1	53	22.81	22.85	22.79	24.0	0.0
20	QPSK	1	104	22.61	22.67	22.65		
20	QPSK	50	0	22.80	22.83	22.81	24.0	0.0
20	QPSK	50	99	22.75	22.87	22.71	24.0	0.0
20	QPSK	50	56	22.61	22.81	22.61	24.0	0.0
20	QPSK	100	0	22.68	22.83	22.68		
20	16QAM	1	1	22.70	22.86	22.69	24.0	0.0
20	64QAM	1	1	22.79	22.95	22.71	23.0	1.0
20	256QAM	1	1	20.05	20.05	20.00	21.0	3.0
Channel				134100	136100	138100	Tune-up limit	MPR
Frequency (MHz)				670.5	680.5	690.5	(dBm)	(dB)
15	QPSK	1	1	22.71	22.83	22.68	24.0	0.0
Channel				133500	136100	138500	Tune-up limit	MPR
Frequency (MHz)				668	680.5	693	(dBm)	(dB)
10	QPSK	1	1	22.55	22.84	22.73	24.0	0.0
Channel				133100	135300	137500	Tune-up limit	MPR
Frequency (MHz)				665.5	680.5	695.5	(dBm)	(dB)
5	QPSK	1	1	22.59	22.84	22.70	24.0	0.0



n41 PC3 Ant1 DSI2 Standalone 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.46	17.46	17.34		
100	PI/2 BPSK	1	137	17.49	17.46	17.41	18.8	0.0
100	PI/2 BPSK	1	271	17.49	17.46	17.29		
100	PI/2 BPSK	135	0	17.40	17.47	17.33	18.8	0.0
100	PI/2 BPSK	135	69	17.34	17.44	17.35	18.8	0.0
100	PI/2 BPSK	135	138	17.40	17.46	17.44	18.8	0.0
100	PI/2 BPSK	270	0	17.42	17.37	17.29		
100	QPSK	1	1	17.54	17.59	17.45		
100	QPSK	1	137	17.45	17.52	17.27	18.8	0.0
100	QPSK	1	271	17.44	17.47	17.30		
100	QPSK	135	0	17.49	17.45	17.34	18.8	0.0
100	QPSK	135	69	17.42	17.53	17.40	18.8	0.0
100	QPSK	135	138	17.51	17.52	17.32	18.8	0.0
100	QPSK	270	0	17.36	17.44	17.26		
100	16QAM	1	1	17.45	17.45	17.32	18.8	0.0
100	64QAM	1	1	17.56	17.51	17.28	18.8	0.0
100	256QAM	1	1	17.37	17.37	17.36	18.8	0.0
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.67	16.78	16.72	18.8	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	16.73	16.75	16.74	18.8	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	16.70	16.82	16.71	18.8	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	16.73	16.76	16.69	18.8	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	16.66	16.77	16.70	18.8	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.64	16.83	16.70	18.8	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.69	16.81	16.69	18.8	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.65	16.83	16.66	18.8	0.0

n41 PC2 Ant1 DSI2 Standalone 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	17.57	17.62	17.47		
100	PI/2 BPSK	1	137	17.60	17.67	17.50	18.8	0.0
100	PI/2 BPSK	1	271	17.58	17.60	17.41		
100	PI/2 BPSK	135	0	17.55	17.57	17.44	18.8	0.0
100	PI/2 BPSK	135	69	17.55	17.55	17.47	18.8	0.0
100	PI/2 BPSK	135	138	17.56	17.56	17.53	18.8	0.0
100	PI/2 BPSK	270	0	17.57	17.56	17.40		
100	QPSK	1	1	17.70	17.71	17.56		
100	QPSK	1	137	17.66	17.68	17.43	18.8	0.0
100	QPSK	1	271	17.54	17.63	17.43		
100	QPSK	135	0	17.63	17.63	17.43	18.8	0.0
100	QPSK	135	69	17.60	17.67	17.53	18.8	0.0
100	QPSK	135	138	17.66	17.65	17.45	18.8	0.0
100	QPSK	270	0	17.56	17.62	17.42		
100	16QAM	1	1	17.56	17.58	17.47	18.8	0.0
100	64QAM	1	1	17.66	17.67	17.42	18.8	0.0
100	256QAM	1	1	17.58	17.59	17.51	18.8	0.0
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.56	17.57	17.50	18.8	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.64	17.66	17.47	18.8	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.60	17.67	17.50	18.8	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.58	17.51	17.49	18.8	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.64	17.64	17.46	18.8	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.59	17.22	17.44	18.8	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.62	17.62	17.41	18.8	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.63	17.68	17.43	18.8	0.0



n41 PC3 Ant1 DSI2 Simultaneous 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.93	15.93	15.89		
100	PI/2 BPSK	1	137	15.97	16.05	15.97	17.5	0.0
100	PI/2 BPSK	1	271	15.95	16.02	15.88		
100	PI/2 BPSK	135	0	15.87	15.99	15.93	17.5	0.0
100	PI/2 BPSK	135	69	15.96	15.99	16.03	17.5	0.0
100	PI/2 BPSK	135	138	15.85	15.94	15.85	17.5	0.0
100	PI/2 BPSK	270	0	15.90	15.97	15.90		
100	QPSK	1	1	16.01	16.08	15.98		
100	QPSK	1	137	15.95	15.96	15.99	17.5	0.0
100	QPSK	1	271	15.96	16.03	15.96		
100	QPSK	135	0	15.95	16.01	15.93	17.5	0.0
100	QPSK	135	69	15.89	16.07	15.95	17.5	0.0
100	QPSK	135	138	15.89	15.99	15.92	17.5	0.0
100	QPSK	270	0	15.88	16.00	15.93	17.5	0.0
100	16QAM	1	1	15.93	15.96	15.97	17.5	0.0
100	64QAM	1	1	15.83	15.98	15.87	17.5	0.0
100	256QAM	1	1	15.90	16.03	15.94	17.5	0.0
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.56	15.63	15.61	17.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.52	15.70	15.64	17.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.57	15.64	15.63	17.5	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.58	15.61	15.60	17.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.52	15.65	15.60	17.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.59	15.65	15.62	17.5	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.52	15.65	15.62	17.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.58	15.60	15.68	17.5	0.0

n41 PC2 Ant1 DSI 2 Simultaneous 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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	15.95	16.09	16.03		
100	PI/2 BPSK	1	137	15.89	16.01	15.89	17.5	0.0
100	PI/2 BPSK	1	271	15.80	15.89	15.79		
100	PI/2 BPSK	135	0	15.83	15.96	15.84	17.5	0.0
100	PI/2 BPSK	135	69	15.91	15.97	15.89	17.5	0.0
100	PI/2 BPSK	135	138	15.85	15.90	15.78	17.5	0.0
100	PI/2 BPSK	270	0	15.88	15.95	15.82		
100	QPSK	1	1	16.05	16.21	16.10		
100	QPSK	1	137	15.98	16.06	16.00	17.5	0.0
100	QPSK	1	271	15.76	15.90	15.80		
100	QPSK	135	0	15.99	15.95	15.99	17.5	0.0
100	QPSK	135	69	16.01	16.05	15.90	17.5	0.0
100	QPSK	135	138	15.73	15.88	15.76	17.5	0.0
100	QPSK	270	0	15.81	15.92	15.77	17.5	0.0
100	16QAM	1	1	15.93	16.03	15.94	17.5	0.0
100	64QAM	1	1	16.04	16.10	16.08	17.5	0.0
100	256QAM	1	1	16.01	16.06	16.00	17.5	0.0
Channel				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	15.60	15.78	15.62	17.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.56	15.78	15.60	17.5	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.51	15.78	15.60	17.5	0.0
Channel				505200	518598	531998		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.51	15.51	15.55	17.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.53	15.72	15.68	17.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.34	15.55	15.47	17.5	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.53	15.74	15.61	17.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.55	15.70	15.61	17.5	0.0



Par270 n77 PC3 Ant2 DS12 Standalone Power							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)				3760	3840	3950	
100	P1/2 BPSK	1	1	19.32	19.50	19.41	
100	P1/2 BPSK	1	137	19.53	19.46	19.41	20.6
100	P1/2 BPSK	1	271	19.49	19.62	19.46	
100	P1/2 BPSK	135	0	19.37	19.30	19.33	20.6
100	P1/2 BPSK	135	69	19.40	19.40	19.33	20.6
100	P1/2 BPSK	135	138	19.39	19.32	19.37	20.6
100	P1/2 BPSK	270	0	19.47	19.32	19.26	
100	QPSK	1	1	19.55	19.68	19.34	
100	QPSK	1	137	19.20	19.34	19.29	20.6
100	QPSK	1	271	19.50	19.47	19.30	
100	QPSK	135	0	19.27	19.31	19.36	20.6
100	QPSK	135	69	19.14	19.37	19.21	20.6
100	QPSK	135	138	19.34	19.36	19.32	20.6
100	QPSK	270	0	19.31	19.32	19.29	
100	16QAM	1	1	19.38	19.34	19.24	20.6
100	16QAM	1	1	19.46	19.35	19.27	20.6
100	256QAM	1	1	17.96	18.01	17.97	19.5
Channel							
Frequency (MHz)				64968	65000	66234	
90	QPSK	1	1	3745.02	3840	3935.01	20.6
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	19.44	19.40	19.36	20.6
Channel							
Frequency (MHz)				64900	65000	66300	
70	QPSK	1	1	19.42	19.55	19.55	20.6
Channel							
Frequency (MHz)				64868	65000	66334	
60	QPSK	1	1	3730.02	3840	3950.01	20.6
Channel							
Frequency (MHz)				64834	65000	66368	
50	QPSK	1	1	19.45	19.37	19.38	20.6
Channel							
Frequency (MHz)				64800	65000	66400	
40	QPSK	1	1	19.33	19.51	19.35	20.6
Channel							
Frequency (MHz)				64768	65000	66434	
30	QPSK	1	1	19.32	19.45	19.39	20.6
Channel							
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	19.36	19.42	19.45	20.6

Par270 n77 PC2 Ant2 DS12 Standalone Power							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)				3750	3840	3930	
100	P1/2 BPSK	1	1	22.58	22.74	22.54	
100	P1/2 BPSK	1	137	22.70	22.78	22.70	23.6
100	P1/2 BPSK	1	271	22.57	22.62	22.46	
100	P1/2 BPSK	135	0	22.47	22.76	22.41	23.6
100	P1/2 BPSK	135	69	22.57	22.69	22.62	23.6
100	P1/2 BPSK	135	138	22.64	22.82	22.47	23.6
100	P1/2 BPSK	270	0	22.65	22.79	22.46	
100	QPSK	1	1	22.69	22.88	22.66	
100	QPSK	1	137	22.51	22.71	22.58	23.6
100	QPSK	1	271	22.46	22.73	22.47	
100	QPSK	135	0	22.72	22.75	22.80	23.6
100	QPSK	135	69	22.73	22.76	22.44	23.6
100	QPSK	135	138	22.70	22.72	22.92	23.6
100	QPSK	270	0	22.45	22.69	22.41	
100	16QAM	1	1	22.48	22.84	22.57	23.6
100	16QAM	1	1	22.48	22.72	22.51	23.6
100	256QAM	1	1	21.21	21.26	21.21	23.0
Channel							
Frequency (MHz)				64868	65000	66234	
90	QPSK	1	1	22.55	22.64	22.64	23.6
Frequency (MHz)				3740.01	3840	3940.02	
80	QPSK	1	1	22.62	22.66	22.53	23.6
Channel							
Frequency (MHz)				64900	65000	66300	
70	QPSK	1	1	22.70	22.80	22.54	23.6
Channel							
Frequency (MHz)				64868	65000	66334	
60	QPSK	1	1	22.67	22.78	22.65	23.6
Channel							
Frequency (MHz)				64834	65000	66368	
50	QPSK	1	1	22.50	22.80	22.61	23.6
Channel							
Frequency (MHz)				64900	65000	66400	
40	QPSK	1	1	22.62	22.81	22.62	23.6
Channel							
Frequency (MHz)				64768	65000	66434	
30	QPSK	1	1	22.62	22.62	22.48	23.6
Channel							
Frequency (MHz)				3710.01	3840	3970.02	
20	QPSK	1	1	22.44	22.76	22.53	23.6

Par270 n77 PC3 Ant2 DS12 Standalone Power							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)				3500.01			
100	P1/2 BPSK	1	1			19.38	
100	P1/2 BPSK	1	137			19.40	20.6
100	P1/2 BPSK	1	271			19.47	
100	P1/2 BPSK	135	0			19.23	20.6
100	P1/2 BPSK	135	69			19.32	20.6
100	P1/2 BPSK	135	138			19.29	20.6
100	P1/2 BPSK	270	0			19.24	20.6
100	QPSK	1	1			19.63	
100	QPSK	1	137			19.19	20.6
100	QPSK	1	271			19.44	
100	QPSK	135	0			19.23	20.6
100	QPSK	135	69			19.51	20.6
100	QPSK	135	138			19.22	20.6
100	QPSK	270	0			19.31	20.6
100	16QAM	1	1			19.31	20.6
100	16QAM	1	1			19.26	20.6
100	256QAM	1	1			19.50	20.0
Channel							
Frequency (MHz)				633000	633334	633668	
90	QPSK	1	1	3485	3500.01	3505.02	20.6
Frequency (MHz)				3490.02	3500.01	3510.01	
80	QPSK	1	1	18.83	18.89	18.92	20.6
Channel							
Frequency (MHz)				632334	633334	634334	
70	QPSK	1	1	3485.01	3500.01	3510.01	20.6
Channel							
Frequency (MHz)				632000	633334	634668	
60	QPSK	1	1	3480	3500.01	3520.02	20.6
Channel							
Frequency (MHz)				631334	633334	635334	
50	QPSK	1	1	3478.02	3500.01	3525	20.6
Channel							
Frequency (MHz)				631000	633334	635668	
40	QPSK	1	1	18.85	18.83	18.90	20.6
Channel							
Frequency (MHz)				3470.01	3500.01	3530.01	
30	QPSK	1	1	18.86	18.84	18.86	20.6
Channel							
Frequency (MHz)				3460.02	3500.01	3540	
20	QPSK	1	1	18.82	18.82	18.87	20.6



Par27Q n77 PC2 Ant2 DSI2 Standalone 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)				63000					
100	PI2 BPSK	1	1	22.80					
100	PI2 BPSK	1	137	22.72					
100	PI2 BPSK	1	271	22.76			20.6	0.0	
100	PI2 BPSK	135	0	22.61					
100	PI2 BPSK	135	69	22.58			23.6	0.0	
100	PI2 BPSK	135	138	22.68			20.1	3.5	
100	PI2 BPSK	270	0	22.70			23.6	0.0	
100	QPSK	1	1	22.71					
100	QPSK	1	137	22.83			23.6	0.0	
100	QPSK	1	271	22.82					
100	QPSK	135	0	22.70			20.1	3.5	
100	QPSK	135	69	22.71			23.6	0.0	
100	QPSK	135	138	22.67			20.1	3.5	
100	QPSK	270	0	22.58			23.6	0.0	
100	16QAM	1	1	22.75			23.6	0.0	
100	64QAM	1	1	22.80			23.6	0.0	
100	256QAM	1	1	20.84			22.5	1.1	
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485			3500.01	3505.02	
90	QPSK	1	1	22.57	22.84	22.55	23.6	0.0	
Channel				33245	33333	33200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02			3500.01	3510	
80	QPSK	1	1	22.51	22.57	22.43	23.6	0.0	
Channel				63200	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3488.01			3500.01	3515.01	
70	QPSK	1	1	22.50	22.51	22.48	23.6	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480			3500.01	3520.02	
60	QPSK	1	1	22.48	22.58	22.43	23.6	0.0	
Channel				63168	63333	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02			3500.01	3522	
50	QPSK	1	1	22.43	22.55	22.48	23.6	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01			3500.01	3530.01	
40	QPSK	1	1	22.48	22.54	22.48	23.6	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465			3500.01	3535.02	
30	QPSK	1	1	22.50	22.52	22.52	23.6	0.0	
Channel				63068	63333	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02			3500.01	3540	
20	QPSK	1	1	22.48	22.59	22.48	23.6	0.0	

Par27Q n78 PC3 Ant2 DSI2 Standalone 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)				65000					
100	PI2 BPSK	1	1	19.22					
100	PI2 BPSK	1	137	19.17			20.6	0.0	
100	PI2 BPSK	1	271	19.25					
100	PI2 BPSK	135	0	19.11			20.6	0.0	
100	PI2 BPSK	135	69	19.09			20.6	0.0	
100	PI2 BPSK	135	138	19.03			20.6	0.0	
100	PI2 BPSK	270	0	19.22					
100	QPSK	1	1	19.39					
100	QPSK	1	137	19.03			20.6	0.0	
100	QPSK	1	271	19.28					
100	QPSK	135	0	19.01			20.6	0.0	
100	QPSK	135	69	19.25			20.6	0.0	
100	QPSK	135	138	19.11			20.6	0.0	
100	QPSK	270	0	19.12					
100	16QAM	1	1	19.02			20.6	0.0	
100	64QAM	1	1	19.06			20.6	0.0	
100	256QAM	1	1	19.02			20.6	0.0	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02			3750	3755.01	
90	QPSK	1	1	19.19	19.24	19.04	20.6	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01			3750	3760.02	
80	QPSK	1	1	19.19	19.25	19.07	20.6	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738			3750	3762	
70	QPSK	1	1	19.19	19.31	19.15	20.6	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02			3750	3770.01	
60	QPSK	1	1	19.12	19.23	19.13	20.6	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01			3750	3775.02	
50	QPSK	1	1	19.17	19.30	19.15	20.6	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720			3750	3780	
40	QPSK	1	1	19.20	19.19	19.05	20.6	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02			3750	3785.01	
30	QPSK	1	1	19.19	19.34	19.05	20.6	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01			3750	3790.02	
20	QPSK	1	1	19.19	19.34	19.08	20.6	0.0	

Part27Q n78 PC2 Ant2 DSI2 Standalone 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)				65000					
100	PI2 BPSK	1	1	22.86					
100	PI2 BPSK	1	137	22.81			23.6	0.0	
100	PI2 BPSK	1	271	22.57					
100	PI2 BPSK	135	0	22.72			23.6	0.0	
100	PI2 BPSK	135	69	22.61			23.6	0.0	
100	PI2 BPSK	135	138	22.63			23.6	0.0	
100	PI2 BPSK	270	0	22.58					
100	QPSK	1	1	22.75					
100	QPSK	1	137	22.87			23.6	0.0	
100	QPSK	1	271	22.70					
100	QPSK	135	0	22.86			23.6	0.0	
100	QPSK	135	69	22.71			23.6	0.0	
100	QPSK	135	138	22.85			23.6	0.0	
100	QPSK	270	0	22.69					
100	16QAM	1	1	22.85			23.6	0.0	
100	64QAM	1	1	22.92			23.6	0.0	
100	256QAM	1	1	21.36			23.0	0.6	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02			3750	3755.01	
90	QPSK	1	1	22.50	22.67	22.48	23.6	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01			3750	3760.02	
80	QPSK	1	1	22.63	22.61	22.44	23.6	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3738			3750	3762	
70	QPSK	1	1	22.38	22.82	22.51	23.6	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02			3750	3770.01	
60	QPSK	1	1	22.51	22.80	22.38	23.6	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01			3750	3775.02	
50	QPSK	1	1	22.50	22.58	22.40	23.6	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720			3750	3780	
40	QPSK	1	1	22.44	22.83	22.41	23.6	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02			3750	3785.01	
30	QPSK	1	1	22.58	22.70	22.56	23.6	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01			3750	3790.02	
20	QPSK	1	1	22.39	22.55	22.38	23.6	0.0	



Par27Q n78 PC3 Ant2 DSI2 Standalone 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				633334				
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	18.19				
100	Pl2 BPSK	1	137	19.03			20.6	0.0
100	Pl2 BPSK	1	271	19.21				
100	Pl2 BPSK	135	0	18.98				
100	Pl2 BPSK	135	69	18.94			20.6	0.0
100	Pl2 BPSK	135	138	18.98				
100	Pl2 BPSK	270	0	18.13			20.6	0.0
100	QPSK	1	1	19.25				
100	QPSK	1	137	18.89			20.6	0.0
100	QPSK	1	271	18.10				
100	QPSK	135	0	18.94				
100	QPSK	135	69	19.16			20.6	0.0
100	QPSK	135	138	19.00				
100	QPSK	270	0	19.00			20.6	0.0
100	16QAM	1	1	18.96			20.6	0.0
100	16QAM	1	1	18.97			20.6	0.0
100	256QAM	1	1	18.93			20.0	1.1
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	18.57	18.53	18.61	20.6	0.0
Channel				633568	633334	633000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.49	18.53	18.52	20.6	0.0
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484.01	3500.01	3516.01		
70	QPSK	1	1	18.44	18.62	18.60	20.6	0.0
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.43	18.60	18.56	20.6	0.0
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.48	18.67	18.61	20.6	0.0
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.52	18.58	18.52	20.6	0.0
Channel				631000	633334	635668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.44	18.58	18.55	20.6	0.0
Channel				630568	633334	636000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.43	18.56	18.60	20.6	0.0

Par27Q n78 PC3 Ant2 DSI2 Standalone 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				633334				
Frequency (MHz)				3500.01				
100	Pl2 BPSK	1	1	22.58			23.6	0.0
100	Pl2 BPSK	1	137	22.48				
100	Pl2 BPSK	1	271	22.53			20.1	3.5
100	Pl2 BPSK	135	0	22.60				
100	Pl2 BPSK	135	69	22.50			23.6	0.0
100	Pl2 BPSK	135	138	22.56			20.1	3.5
100	Pl2 BPSK	270	0	22.42			23.6	0.0
100	QPSK	1	1	22.97				
100	QPSK	1	137	22.59			23.6	0.0
100	QPSK	1	271	22.84			20.1	3.5
100	QPSK	135	0	22.59				
100	QPSK	135	69	22.94			23.6	0.0
100	QPSK	135	138	22.55			20.1	3.5
100	QPSK	270	0	22.86			23.6	0.0
100	16QAM	1	1	22.50			23.6	0.0
100	16QAM	1	1	22.46			23.6	0.0
100	256QAM	1	1	21.31			22.5	1.1
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	22.16	22.31	22.18	23.6	0.0
Channel				633568	633334	633000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.29	22.28	22.30	23.6	0.0
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484.01	3500.01	3516.01		
70	QPSK	1	1	22.22	22.30	22.20	23.6	0.0
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.21	22.34	22.16	23.6	0.0
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.28	22.22	22.21	23.6	0.0
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.22	22.27	22.21	23.6	0.0
Channel				631000	633334	635668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.28	22.36	22.23	23.6	0.0
Channel				630568	633334	636000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.20	22.22	22.21	23.6	0.0



Par270 n77 PC3 Ant2 DSI2 Simultaneous 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)				3760	3840	3950		
100	PI2 BPSK	1	1	17.79	17.88	17.53		
100	PI2 BPSK	1	137	17.80	17.82	17.88	19.3	0.0
100	PI2 BPSK	1	271	17.83	17.99	17.94		
100	PI2 BPSK	135	0	17.73	17.85	17.67	19.3	0.0
100	PI2 BPSK	135	69	17.84	17.98	17.70	19.3	0.0
100	PI2 BPSK	135	138	17.82	17.97	17.83	19.3	0.0
100	PI2 BPSK	270	0	17.69	17.90	17.79		
100	QPSK	1	1	17.95	18.06	17.88		
100	QPSK	1	137	17.92	17.80	17.98	19.3	0.0
100	QPSK	1	271	17.99	17.79	17.90		
100	QPSK	135	0	17.49	17.72	17.71	19.3	0.0
100	QPSK	135	69	17.80	17.92	17.82	19.3	0.0
100	QPSK	135	138	17.84	17.77	17.81	19.3	0.0
100	QPSK	270	0	17.78	17.91	17.70		
100	16QAM	1	1	17.88	17.95	17.99	19.3	0.0
100	16QAM	1	1	17.69	17.88	17.79	19.3	0.0
100	256QAM	1	1	17.68	17.71	17.67	19.3	0.0
Channel								
Frequency (MHz)				64968	65000	66234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.55	17.67	17.56	19.3	0.0
Channel								
Frequency (MHz)				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.42	17.57	17.46	19.3	0.0
Channel								
Frequency (MHz)				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
70	QPSK	1	1	17.44	17.62	17.50	19.3	0.0
Channel								
Frequency (MHz)				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.47	17.60	17.45	19.3	0.0
Channel								
Frequency (MHz)				64834	65000	66368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.44	17.59	17.48	19.3	0.0
Channel								
Frequency (MHz)				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.45	17.58	17.46	19.3	0.0
Channel								
Frequency (MHz)				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	17.50	17.58	17.43	19.3	0.0
Channel								
Frequency (MHz)				64734	65000	66468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.49	17.55	17.46	19.3	0.0

Par270 n77 PC2 Ant2 DSI2 Simultaneous 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)				3750	3840	3930		
100	PI2 BPSK	1	1	20.94	21.12	20.87		
100	PI2 BPSK	1	137	20.90	21.00	21.10	22.3	0.0
100	PI2 BPSK	1	271	21.11	21.20	21.29		
100	PI2 BPSK	135	0	20.93	21.06	20.87	22.3	0.0
100	PI2 BPSK	135	69	21.04	21.17	21.06	22.3	0.0
100	PI2 BPSK	135	138	20.98	21.18	20.93	22.3	0.0
100	PI2 BPSK	270	0	20.86	21.10	21.00		
100	QPSK	1	1	21.19	21.35	21.23		
100	QPSK	1	137	21.15	20.99	21.15	22.3	0.0
100	QPSK	1	271	20.77	21.05	21.02		
100	QPSK	135	0	20.78	20.93	20.90	22.3	0.0
100	QPSK	135	69	21.11	21.18	21.12	22.3	0.0
100	QPSK	135	138	20.86	20.96	21.12	22.3	0.0
100	QPSK	270	0	20.89	21.09	20.98		
100	16QAM	1	1	21.01	21.30	21.19	22.3	0.0
100	16QAM	1	1	21.22	21.28	21.01	22.3	0.0
100	256QAM	1	1	20.82	21.11	20.90	22.3	0.0
Channel								
Frequency (MHz)				64868	65000	66234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	20.72	20.93	20.67	22.3	0.0
Channel								
Frequency (MHz)				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	20.58	20.70	20.50	22.3	0.0
Channel								
Frequency (MHz)				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
70	QPSK	1	1	21.01	21.01	20.84	22.3	0.0
Channel								
Frequency (MHz)				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	20.71	20.78	20.54	22.3	0.0
Channel								
Frequency (MHz)				64834	65000	66368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	20.41	20.48	20.24	22.3	0.0
Channel								
Frequency (MHz)				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	20.94	21.01	20.96	22.3	0.0
Channel								
Frequency (MHz)				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	20.11	20.18	19.94	22.3	0.0
Channel								
Frequency (MHz)				64734	65000	66468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	19.81	19.88	19.64	22.3	0.0

Par27Q n77 PC3 Ant2 DSI2 Simultaneous 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)				3500.01				
100	PI2 BPSK	1	1			18.12		
100	PI2 BPSK	1	137			18.07	19.3	0.0
100	PI2 BPSK	1	271			18.27		
100	PI2 BPSK	135	0			18.04	19.3	0.0
100	PI2 BPSK	135	69			18.12	19.3	0.0
100	PI2 BPSK	135	138			18.19	19.3	0.0
100	PI2 BPSK	270	0			18.11	19.3	0.0
100	QPSK	1	1			18.25		
100	QPSK	1	137			18.00	19.3	0.0
100	QPSK	1	271			18.06		
100	QPSK	135	0			17.99	19.3	0.0
100	QPSK	135	69			18.07	19.3	0.0
100	QPSK	135	138			17.97	19.3	0.0
100	QPSK	270	0			18.09	19.3	0.0
100	16QAM	1	1			18.18	19.3	0.0
100	16QAM	1	1			17.82	19.3	0.0
100	256QAM	1	1			17.50	19.3	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	17.85	17.91	17.80	19.3	0.0
Channel								
Frequency (MHz)				632988	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510.01		
80	QPSK	1	1	17.83	17.89	17.82	19.3	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	17.85	17.84	17.90	19.3	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.89	17.92	17.82	19.3	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525.02		
50	QPSK	1	1	17.85	17.83	17.90	19.3	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.89	17.86	17.89	19.3	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465.02	3500.01	3535.02		
30	QPSK	1	1	17.88	17.84	17.86	19.3	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540.02		
20	QPSK	1	1	17.82	17.82	17.87	19.3	0.0



Par27Q n77 PC2 Ant2 DSI2 Simultaneous 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)				3500.01	633334			
100	PI2 BPSK	1	1	21.00			22.3	0.0
100	PI2 BPSK	1	137	20.92				
100	PI2 BPSK	1	271	21.07			22.3	0.0
100	PI2 BPSK	135	0	20.96				
100	PI2 BPSK	135	69	21.07			22.3	0.0
100	PI2 BPSK	135	138	21.07			22.3	0.0
100	PI2 BPSK	270	0	20.96			22.3	0.0
100	QPSK	1	1	21.03				
100	QPSK	1	137	20.86			22.3	0.0
100	QPSK	1	271	20.91				
100	QPSK	135	0	20.83			22.3	0.0
100	QPSK	135	69	21.15			22.3	0.0
100	QPSK	135	138	20.91			22.3	0.0
100	QPSK	270	0	20.93			22.3	0.0
100	16QAM	1	1	21.18			22.3	0.0
100	64QAM	1	1	21.22			22.3	0.0
100	256QAM	1	1	20.95			22.3	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.63	20.45	20.54	22.3	0.0
Channel								
Frequency (MHz)				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.68	20.49	20.37	22.3	0.0
Channel								
Frequency (MHz)				632000	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.64	20.41	20.39	22.3	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.40	20.58	20.33	22.3	0.0
Channel								
Frequency (MHz)				3470.02	3500.01	3525	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.59	20.58	20.27	22.3	0.0
Channel								
Frequency (MHz)				631000	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.55	20.56	20.25	22.3	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.68	20.57	20.34	22.3	0.0
Channel								
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.57	20.53	20.38	22.3	0.0

Part27O n78 PC3 Ant2 DSI2 Simultaneous 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)					650000			
100	PI2 BPSK	1	1		17.83			
100	PI2 BPSK	1	137		17.83		19.3	0.0
100	PI2 BPSK	1	271		17.88			
100	PI2 BPSK	135	0		17.81		19.3	0.0
100	PI2 BPSK	135	69		17.88		19.3	0.0
100	PI2 BPSK	135	138		17.82		19.3	0.0
100	PI2 BPSK	270	0		17.83			
100	QPSK	1	1		17.83			
100	QPSK	1	137		17.83		19.3	0.0
100	QPSK	1	271		17.85			
100	QPSK	135	0		17.88		19.3	0.0
100	QPSK	135	69		17.89		19.3	0.0
100	QPSK	135	138		17.83		19.3	0.0
100	QPSK	270	0		17.81			
100	16QAM	1	1		17.87		19.3	0.0
100	64QAM	1	1		17.72		19.3	0.0
100	256QAM	1	1		17.54		19.3	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	17.67	17.90	17.91	19.3	0.0
Channel								
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	17.90	17.86	17.92	19.3	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	17.91	17.85	17.86	19.3	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	17.91	17.82	17.85	19.3	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	17.90	17.91	17.88	19.3	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	17.90	17.91	17.87	19.3	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	17.90	17.87	17.85	19.3	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	17.86	17.89	17.89	19.3	0.0

Part27O n78 PC2 Ant2 DSI2 Simultaneous 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)					650000			
100	PI2 BPSK	1	1		20.90			
100	PI2 BPSK	1	137		20.84		22.3	0.0
100	PI2 BPSK	1	271		20.94			
100	PI2 BPSK	135	0		20.85		22.3	0.0
100	PI2 BPSK	135	69		20.82		22.3	0.0
100	PI2 BPSK	135	138		20.85		22.3	0.0
100	PI2 BPSK	270	0		20.86		22.3	0.0
100	QPSK	1	1		21.00			
100	QPSK	1	137		20.82		22.3	0.0
100	QPSK	1	271		20.86			
100	QPSK	135	0		20.94		22.3	0.0
100	QPSK	135	69		20.82		22.3	0.0
100	QPSK	135	138		20.80		22.3	0.0
100	QPSK	270	0		20.77			
100	16QAM	1	1		20.91		22.3	0.0
100	64QAM	1	1		20.71		22.3	0.0
100	256QAM	1	1		20.53		22.3	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	20.57	20.59	20.52	22.3	0.0
Channel								
Frequency (MHz)				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	20.67	20.53	20.53	22.3	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	20.60	20.61	20.57	22.3	0.0
Channel								
Frequency (MHz)				649668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	20.70	20.63	20.61	22.3	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	20.67	20.64	20.50	22.3	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	20.59	20.63	20.54	22.3	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.67	20.53	20.61	22.3	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	20.59	20.56	20.48	22.3	0.0



Par27Q n78 PC3 Ant2 DSI2 Simultaneous 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				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	17.78				
100	PI2 BPSK	1	137	17.88			19.3	0.0
100	PI2 BPSK	1	271	17.71				
100	PI2 BPSK	135	0	17.67				
100	PI2 BPSK	135	69	17.76			19.3	0.0
100	PI2 BPSK	135	138	17.72				
100	PI2 BPSK	270	0	17.88			19.3	0.0
100	QPSK	1	1	17.83				
100	QPSK	1	137	17.85			19.3	0.0
100	QPSK	1	271	17.61				
100	QPSK	135	0	17.57				
100	QPSK	135	69	17.71			19.3	0.0
100	QPSK	135	138	17.54				
100	QPSK	270	0	17.68			19.3	0.0
100	16QAM	1	1	17.79			19.3	0.0
100	16QAM	1	1	17.79			19.3	0.0
100	256QAM	1	1	17.55			19.3	0.0
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	17.57	17.53	17.61	19.2	0.0
Channel				633668	633334	633000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	17.49	17.53	17.52	19.3	0.0
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484.01	3500.01	3516.01		
70	QPSK	1	1	17.44	17.62	17.60	19.3	0.0
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	17.43	17.60	17.56	19.2	0.0
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	17.48	17.57	17.61	19.3	0.0
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	17.52	17.58	17.52	19.3	0.0
Channel				631000	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
30	QPSK	1	1	17.44	17.58	17.55	19.2	0.0
Channel				630668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	17.43	17.56	17.60	19.3	0.0

Par27Q n78 PC3 Ant2 DSI2 Simultaneous 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				633334				
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	20.78				
100	PI2 BPSK	1	137	21.02			22.3	0.0
100	PI2 BPSK	1	271	20.83				
100	PI2 BPSK	135	0	20.96			22.3	0.0
100	PI2 BPSK	135	69	21.02			22.3	0.0
100	PI2 BPSK	135	138	20.83			22.3	0.0
100	PI2 BPSK	270	0	21.10			22.3	0.0
100	QPSK	1	1	21.22				
100	QPSK	1	137	20.85			22.3	0.0
100	QPSK	1	271	20.71				
100	QPSK	135	0	20.89			22.3	0.0
100	QPSK	135	69	21.12			22.3	0.0
100	QPSK	135	138	20.89			22.3	0.0
100	QPSK	270	0	21.12			22.3	0.0
100	16QAM	1	1	21.18			22.3	0.0
100	16QAM	1	1	20.85			22.3	0.0
100	256QAM	1	1	20.59			22.3	0.0
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	21.21	21.33	21.30	22.3	0.0
Channel				633668	633334	633000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	21.26	21.34	21.35	22.3	0.0
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3484.01	3500.01	3516.01		
70	QPSK	1	1	21.15	21.34	21.22	22.3	0.0
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3521.02		
60	QPSK	1	1	21.15	21.29	21.33	22.3	0.0
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	21.15	21.26	21.18	22.3	0.0
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.20	21.20	21.19	22.3	0.0
Channel				631000	633334	635334	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
30	QPSK	1	1	21.21	21.23	21.19	22.3	0.0
Channel				630668	633334	635000	Time-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.22	21.19	21.12	22.3	0.0



Part270 n78 Ant7 DSI2 Standalone&Simultaneous

PC3									
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	PI2 BPSK	1	1	22.83					
100	PI2 BPSK	1	137	22.43			24.0	0.0	
100	PI2 BPSK	1	271	22.28					
100	PI2 BPSK	135	0	22.14			23.5	0.5	
100	PI2 BPSK	135	69	22.39			24.0	0.0	
100	PI2 BPSK	135	138	21.85			23.5	0.5	
100	PI2 BPSK	270	0	21.91					
100	QPSK	1	1	22.94					
100	QPSK	1	137	22.45			24.0	0.0	
100	QPSK	1	271	22.28					
100	QPSK	135	0	21.62			23.0	1.0	
100	QPSK	135	69	22.36			24.0	0.0	
100	QPSK	135	138	21.28			23.0	1.0	
100	QPSK	270	0	21.38					
100	16QAM	1	1	21.58			23.0	1.0	
100	16QAM	1	1	20.34			21.5	2.5	
100	256QAM	1	1	18.21			19.5	4.5	
Channel				649688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	24.0	0.0	
90	QPSK	1	1	22.45	22.62	22.35	24.0	0.0	
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	24.0	0.0	
80	QPSK	1	1	22.42	22.54	22.34	24.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.02	3750	3765.01	24.0	0.0	
70	QPSK	1	1	22.51	22.54	22.45	24.0	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	24.0	0.0	
60	QPSK	1	1	22.31	22.58	22.37	24.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	24.0	0.0	
50	QPSK	1	1	22.40	22.63	22.50	24.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.01	24.0	0.0	
40	QPSK	1	1	22.52	22.44	22.36	24.0	0.0	
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	24.0	0.0	
30	QPSK	1	1	22.38	22.60	22.47	24.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	24.0	0.0	
20	QPSK	1	1	22.40	22.55	22.50	24.0	0.0	

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PC2									
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	PI2 BPSK	1	1	25.54					
100	PI2 BPSK	1	137	25.51			27.0	0.0	
100	PI2 BPSK	1	271	25.36					
100	PI2 BPSK	135	0	25.46			28.5	0.5	
100	PI2 BPSK	135	69	25.42			27.0	0.0	
100	PI2 BPSK	135	138	25.21			28.5	0.5	
100	PI2 BPSK	270	0	25.38					
100	QPSK	1	1	25.58					
100	QPSK	1	137	25.42			27.0	0.0	
100	QPSK	1	271	25.32					
100	QPSK	135	0	25.04			28.0	1.0	
100	QPSK	135	69	25.37			27.0	0.0	
100	QPSK	135	138	24.71			28.0	1.0	
100	QPSK	270	0	25.02					
100	16QAM	1	1	25.07			28.0	1.0	
100	16QAM	1	1	23.74			24.5	2.5	
100	256QAM	1	1	21.69			22.5	4.5	
Channel				648688	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	27.0	0.0	
90	QPSK	1	1	25.35	25.38	25.32	27.0	0.0	
Channel				648334	650000	650666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	27.0	0.0	
80	QPSK	1	1	25.31	25.43	25.36	27.0	0.0	
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735.02	3750	3765.01	27.0	0.0	
70	QPSK	1	1	25.34	25.45	25.34	27.0	0.0	
Channel				648688	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	27.0	0.0	
60	QPSK	1	1	25.28	25.42	25.31	27.0	0.0	
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	27.0	0.0	
50	QPSK	1	1	25.30	25.46	25.34	27.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720.02	3750	3780.01	27.0	0.0	
40	QPSK	1	1	25.32	25.40	25.38	27.0	0.0	
Channel				647688	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	27.0	0.0	
30	QPSK	1	1	25.32	25.42	25.40	27.0	0.0	
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	27.0	0.0	
20	QPSK	1	1	25.31	25.45	25.41	27.0	0.0	

Part27Q n78 Ant7 DSI2 Standalone&Simultaneous

PC3									
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				633000					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	23.03					
100	PI2 BPSK	1	137	22.96			24.0	0.0	
100	PI2 BPSK	1	271	23.00					
100	PI2 BPSK	135	0	22.75			23.5	0.5	
100	PI2 BPSK	135	69	23.13			24.0	0.0	
100	PI2 BPSK	135	138	22.58			23.5	0.5	
100	PI2 BPSK	270	0	22.64					
100	QPSK	1	1	23.15					
100	QPSK	1	137	22.95			24.0	0.0	
100	QPSK	1	271	22.98					
100	QPSK	135	0	22.17			24.0	0.0	
100	QPSK	135	69	23.17					
100	QPSK	135	138	22.05			23.0	1.0	
100	QPSK	270	0	22.25					
100	16QAM	1	1	22.38			23.0	1.0	
100	16QAM	1	1	20.83			21.5	2.5	
100	256QAM	1	1	18.78			19.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	24.0	0.0	
90	QPSK	1	1	22.98	23.07	23.05	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510.01	24.0	0.0	
80	QPSK	1	1	23.04	23.04	23.06	24.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	24.0	0.0	
70	QPSK	1	1	23.07	23.08	23.05	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.00	3500.01	3520.02	24.0	0.0	
60	QPSK	1	1	22.97	23.07	22.99	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525.02	24.0	0.0	
50	QPSK	1	1	23.06	23.04	23.04	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	24.0	0.0	
40	QPSK	1	1	22.99	23.05	23.04	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465.00	3500.01	3535.02	24.0	0.0	
30	QPSK	1	1	23.02	23.03	23.01	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540.01	24.0	0.0	
20	QPSK	1	1	22.97	23.04	23.07	24.0	0.0	



Part27Q n78 Ant7 DSI2 Standalone&Simultaneous

PC2								
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				633000	633334	633668	MPR	
Frequency (MHz)							3500.01	
100	PV2 BPSK	1	1	26.21			27.0	0.0
100	PV2 BPSK	1	137	26.16				
100	PV2 BPSK	1	271	26.02			23.5	3.5
100	PV2 BPSK	135	0	26.10				
100	PV2 BPSK	135	69	26.12			27.0	0.0
100	PV2 BPSK	135	138	26.09			23.5	3.5
100	PV2 BPSK	270	0	26.05			26.5	0.5
100	QPSK	1	1	26.25				
100	QPSK	1	137	26.13			27.0	0.0
100	QPSK	1	271	26.06				
100	QPSK	135	0	25.71			23.5	3.5
100	QPSK	135	69	26.13				
100	QPSK	135	138	25.85			23.5	3.5
100	QPSK	270	0	25.77			26.5	0.5
100	16QAM	1	1	25.59			26.0	1.0
100	64QAM	1	1	24.43			24.5	2.5
100	256QAM	1	1	22.31			22.5	4.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	26.05	26.07	26.10	27.0	0.0
Channel				632000	633334	635000	MPR	
Frequency (MHz)				3490.02	3500.01	3510	limit (dB)	
80	QPSK	1	1	26.06	26.05	26.05	27.0	0.0
Channel				632334	633334	634334	MPR	
Frequency (MHz)				3485.01	3500.01	3485.01	limit (dB)	
70	QPSK	1	1	25.99	26.03	26.07	27.0	0.0
Channel				632000	633334	634668	MPR	
Frequency (MHz)				3480	3500.01	3520.02	limit (dBm)	
60	QPSK	1	1	26.00	26.04	26.10	27.0	0.0
Channel				631000	633334	635000	MPR	
Frequency (MHz)				3475.02	3500.01	3525	limit (dB)	
50	QPSK	1	1	26.05	26.07	26.04	27.0	0.0
Channel				631334	633334	635334	MPR	
Frequency (MHz)				3470.01	3500.01	3470.01	limit (dB)	
40	QPSK	1	1	26.02	26.09	26.04	27.0	0.0
Channel				631000	633334	635668	MPR	
Frequency (MHz)				3465	3500.01	3535.02	limit (dBm)	
30	QPSK	1	1	26.03	26.02	26.08	27.0	0.0
Channel				630500	633334	635000	MPR	
Frequency (MHz)				3460.02	3500.01	3540	limit (dB)	
20	QPSK	1	1	26.00	26.06	26.05	27.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1860	1860		
20	Pl2 BPSK	1	1	17.74	17.79	17.79	18.7	0.0
20	Pl2 BPSK	1	53	17.57	17.74	17.52		
20	Pl2 BPSK	1	104	17.53	17.59	17.44		
20	Pl2 BPSK	50	0	17.47	17.56	17.56	18.7	0.0
20	Pl2 BPSK	50	28	17.57	17.62	17.41	18.7	0.0
20	Pl2 BPSK	50	56	17.39	17.49	17.34		
20	Pl2 BPSK	100	0	17.44	17.49	17.36	18.7	0.0
20	QPSK	1	1	17.88	17.95	17.90		
20	QPSK	1	53	17.53	17.63	17.48	18.7	0.0
20	QPSK	1	104	17.47	17.64	17.58		
20	QPSK	50	0	17.44	17.57	17.53	18.7	0.0
20	QPSK	50	28	17.56	17.63	17.57	18.7	0.0
20	QPSK	50	56	17.56	17.54	17.41		
20	QPSK	100	0	17.50	17.61	17.35	18.7	0.0
20	16QAM	1	1	17.40	17.48	17.37	18.7	0.0
20	16QAM	1	1	17.56	17.60	17.47	18.7	0.0
20	256QAM	1	1	17.48	17.68	17.54	18.7	0.0
Channel				371500	376000	380000		
Frequency (MHz)				1857.5	1860	1862.5		
15	QPSK	1	1	17.55	17.73	17.65	18.7	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1860	1865		
10	QPSK	1	1	17.68	17.69	17.52	18.7	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1860	1867.5		
5	QPSK	1	1	17.60	17.65	17.72	18.7	0.0

n5 Ant0 DSI3 Standalone Power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	Pl2 BPSK	1	1	22.15	22.27	22.20	24.0	0.0
20	Pl2 BPSK	1	53	22.32	22.11	22.23		
20	Pl2 BPSK	1	104	22.02	22.01	22.32		
20	Pl2 BPSK	50	0	22.04	22.03	22.35	24.0	0.0
20	Pl2 BPSK	50	28	22.10	22.14	22.11	24.0	0.0
20	Pl2 BPSK	50	56	22.34	22.11	22.04		
20	Pl2 BPSK	100	0	22.33	22.14	22.37	24.0	0.0
20	QPSK	1	1	22.22	22.43	22.22		
20	QPSK	1	53	22.07	22.11	22.04	24.0	0.0
20	QPSK	1	104	22.12	22.13	22.05		
20	QPSK	50	0	22.17	22.21	22.01	24.0	0.0
20	QPSK	50	28	22.17	22.21	22.20	24.0	0.0
20	QPSK	50	56	22.12	22.13	22.10		
20	QPSK	100	0	22.12	22.20	22.04	24.0	0.0
20	16QAM	1	1	22.22	22.34	22.34	24.0	0.0
20	16QAM	1	1	22.36	22.12	22.21	23.0	1.0
20	256QAM	1	1	20.02	20.21	20.02	21.0	3.0
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.16	22.31	22.01	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.06	22.22	22.22	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.20	22.25	22.10	24.0	0.0

n12 Ant0 DSI3 Standalone Power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	Pl2 BPSK	1	1	23.13	23.12	23.07		
15	Pl2 BPSK	1	40	23.11	23.15	22.99	24.0	0.0
15	Pl2 BPSK	1	77	23.08	23.09	23.03		
15	Pl2 BPSK	36	0	22.67	22.67	22.46	23.5	0.5
15	Pl2 BPSK	36	25	22.96	23.07	22.94	24.0	0.0
15	Pl2 BPSK	36	43	22.62	22.61	22.59		
15	Pl2 BPSK	75	0	22.63	22.72	22.66	23.5	0.5
15	QPSK	1	1	23.16	23.21	23.08		
15	QPSK	1	40	23.17	23.19	23.15	24.0	0.0
15	QPSK	1	77	23.15	23.17	23.05		
15	QPSK	36	0	22.17	22.22	22.03	23.0	1.0
15	QPSK	36	25	23.06	23.15	23.08	24.0	0.0
15	QPSK	36	43	22.10	22.19	22.03		
15	QPSK	75	0	22.28	22.28	22.10	23.0	1.0
15	16QAM	1	1	22.16	22.21	22.03	23.0	1.0
15	16QAM	1	1	20.83	20.97	20.80	21.5	2.5
15	256QAM	1	1	18.68	18.83	18.76	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.08	23.21	23.08	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.96	23.12	23.05	24.0	0.0



n25 Ant0 DSI3 Standalone 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				372000	376500	381000			
Frequency (MHz)				1860	1862.5	1865			
20	PI2 BPSK	1	1	17.85	17.99	17.80			
20	PI2 BPSK	1	53	17.74	17.82	17.69	18.7	0.0	
20	PI2 BPSK	1	104	17.68	17.77	17.63			
20	PI2 BPSK	50	0	17.67	17.76	17.65	18.7	0.0	
20	PI2 BPSK	50	98	17.67	17.74	17.59	18.7	0.0	
20	PI2 BPSK	50	56	17.57	17.68	17.56	18.7	0.0	
20	PI2 BPSK	100	0	17.59	17.68	17.51			
20	QPSK	1	1	18.04	18.16	18.02			
20	QPSK	1	53	17.73	17.84	17.69	18.7	0.0	
20	QPSK	1	104	17.65	17.78	17.68			
20	QPSK	50	0	17.63	17.70	17.63	18.7	0.0	
20	QPSK	50	98	17.68	17.79	17.71	18.7	0.0	
20	QPSK	50	56	17.68	17.70	17.58	18.7	0.0	
20	QPSK	100	0	17.63	17.70	17.55			
20	16QAM	1	1	17.52	17.63	17.52	18.7	0.0	
20	16QAM	1	1	17.67	17.81	17.66	18.7	0.0	
20	256QAM	1	1	17.69	17.79	17.72	18.7	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1837.5	1862.5	1907.5			
15	QPSK	1	1	17.66	18.02	17.89	18.7	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1862.5	1910			
10	QPSK	1	1	17.99	18.05	17.89	18.7	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1882.5	1912.5			
5	QPSK	1	1	17.96	18.08	17.89	18.7	0.0	

n26 Ant0 DSI3 Standalone 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				164600	166300	167800			
Frequency (MHz)				824	831.5	837			
20	PI2 BPSK	1	1	22.55	22.65	22.49			
20	PI2 BPSK	1	53	22.43	22.58	22.49	24.0	0.0	
20	PI2 BPSK	1	104	22.56	22.62	22.45			
20	PI2 BPSK	50	0	22.61	22.67	22.53	24.0	0.0	
20	PI2 BPSK	50	98	22.59	22.64	22.56	24.0	0.0	
20	PI2 BPSK	50	56	22.45	22.56	22.40	24.0	0.0	
20	PI2 BPSK	100	0	22.54	22.67	22.51			
20	QPSK	1	1	22.59	22.73	22.66			
20	QPSK	1	53	22.57	22.64	22.52	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.65			
20	QPSK	50	0	22.59	22.66	22.55	24.0	0.0	
20	QPSK	50	98	22.54	22.72	22.63	24.0	0.0	
20	QPSK	50	56	22.52	22.63	22.48	24.0	0.0	
20	QPSK	100	0	22.58	22.72	22.57			
20	16QAM	1	1	22.83	22.69	22.58	24.0	0.0	
20	16QAM	1	1	21.97	22.09	21.92	23.5	0.5	
20	256QAM	1	1	18.72	18.77	18.59	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	22.42	22.69	22.49	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.45	22.68	22.53	24.0	0.0	
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	1	22.53	22.65	22.50	24.0	0.0	

n66 Ant0 DSI3 Standalone 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				346000	349000	352000			
Frequency (MHz)				1720	1745	1760			
40	PI2 BPSK	1	1	18.12	18.25	18.18			
40	PI2 BPSK	1	108	17.97	17.99	17.88	19.3	0.0	
40	PI2 BPSK	1	214	18.00	18.05	17.93			
40	PI2 BPSK	108	0	17.90	17.95	17.80	19.3	0.0	
40	PI2 BPSK	108	54	17.81	17.84	17.81	19.3	0.0	
40	PI2 BPSK	108	108	18.00	18.09	17.94	19.3	0.0	
40	PI2 BPSK	216	0	17.88	17.99	17.86			
40	QPSK	1	1	18.29	18.35	18.23			
40	QPSK	1	108	17.85	17.84	17.83	19.3	0.0	
40	QPSK	1	214	18.01	18.07	17.94			
40	QPSK	108	0	18.02	17.91	17.98	19.3	0.0	
40	QPSK	108	54	17.96	18.11	18.08	19.3	0.0	
40	QPSK	108	108	17.81	18.04	17.90	19.3	0.0	
40	QPSK	216	0	17.95	18.01	17.90			
40	16QAM	1	1	17.88	17.97	17.89	19.3	0.0	
40	16QAM	1	1	17.99	18.05	17.90	19.3	0.0	
40	256QAM	1	1	17.81	18.04	17.95	19.3	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1765			
30	QPSK	1	1	17.81	17.81	17.84	19.3	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.85	17.89	17.86	19.3	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.94	18.00	17.81	19.3	0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.90	17.92	17.84	19.3	0.0	
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.93	17.97	17.86	19.3	0.0	



n71 Ant0 DSI3 Standalone Power

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	Power High Ch. Freq		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.89	22.93	22.75		
20	PI2 BPSK	1	53	22.83	22.99	22.90	24.0	0.0
20	PI2 BPSK	1	104	22.67	22.79	22.59		
20	PI2 BPSK	50	0	22.74	22.84	22.87	24.0	0.0
20	PI2 BPSK	50	56	22.91	22.96	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.77	22.85	22.64	24.0	0.0
20	PI2 BPSK	100	0	22.92	23.01	22.86		
20	QPSK	1	1	23.02	23.13	22.86		
20	QPSK	1	53	22.89	22.95	22.85	24.0	0.0
20	QPSK	1	104	22.63	22.70	22.69		
20	QPSK	50	0	22.86	22.85	22.84	24.0	0.0
20	QPSK	50	56	22.78	22.96	22.81	24.0	0.0
20	QPSK	50	56	22.85	22.85	22.80	24.0	0.0
20	QPSK	100	0	22.83	22.97	22.82		
20	16QAM	1	1	22.86	23.08	23.09	24.0	0.0
20	64QAM	1	1	22.25	22.45	22.34	24.0	0.0
20	256QAM	1	1	20.11	20.09	20.08	21.0	3.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.02	22.85	22.88	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.97	23.06	22.89	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.88	23.04	22.93	24.0	0.0



n2 Ant0 DSI3 Simultaneous Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	Pl2 BPSK	1	1	13.63	13.80	13.81			
20	Pl2 BPSK	1	53	13.57	13.67	13.66	15.3	0.0	
20	Pl2 BPSK	1	104	13.79	13.80	13.75			
20	Pl2 BPSK	50	0	13.73	13.79	13.59	15.3	0.0	
20	Pl2 BPSK	50	28	13.63	13.74	13.68	15.3	0.0	
20	Pl2 BPSK	50	56	13.65	13.72	13.68			
20	Pl2 BPSK	100	0	13.68	13.71	13.64	15.3	0.0	
20	QPSK	1	1	13.97	13.99	13.96			
20	QPSK	1	53	13.57	13.73	13.66	15.3	0.0	
20	QPSK	1	104	13.74	13.89	13.73			
20	QPSK	50	0	13.71	13.77	13.70	15.3	0.0	
20	QPSK	50	28	13.67	13.76	13.67	15.3	0.0	
20	QPSK	50	56	13.61	13.66	13.59			
20	QPSK	100	0	13.63	13.78	13.73	15.3	0.0	
20	16QAM	1	1	13.69	13.80	13.72	15.3	0.0	
20	16QAM	1	1	13.86	13.82	13.81	15.3	0.0	
20	256QAM	1	1	13.72	13.87	13.72	15.3	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1860	1862.5			
15	QPSK	1	1	13.71	13.79	13.70	15.3	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1860	1865			
10	QPSK	1	1	13.63	13.79	13.65	15.3	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1860	1867.5			
5	QPSK	1	1	13.68	13.77	13.67	15.3	0.0	

n5 Ant0 DSI3 Simultaneous Reuse Full power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pl2 BPSK	1	1	22.15	22.27	22.20			
20	Pl2 BPSK	1	53	22.32	22.11	22.23	24.0	0.0	
20	Pl2 BPSK	1	104	22.02	22.01	22.32			
20	Pl2 BPSK	50	0	22.04	22.03	22.35	24.0	0.0	
20	Pl2 BPSK	50	28	22.10	22.14	22.11	24.0	0.0	
20	Pl2 BPSK	50	56	22.34	22.11	22.04			
20	Pl2 BPSK	100	0	22.33	22.14	22.37	24.0	0.0	
20	QPSK	1	1	22.22	22.43	22.22			
20	QPSK	1	53	22.07	22.11	22.04	24.0	0.0	
20	QPSK	1	104	22.12	22.13	22.05			
20	QPSK	50	0	22.17	22.21	22.01	24.0	0.0	
20	QPSK	50	28	22.17	22.21	22.20	24.0	0.0	
20	QPSK	50	56	22.12	22.13	22.10			
20	QPSK	100	0	22.12	22.20	22.04	24.0	0.0	
20	16QAM	1	1	22.22	22.34	22.34	24.0	0.0	
20	16QAM	1	1	22.34	22.12	22.21	23.0	1.0	
20	256QAM	1	1	20.02	20.21	20.02	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.16	22.31	22.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.06	22.22	22.22	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.20	22.25	22.10	24.0	0.0	

n12 Ant0 DSI3 Simultaneous Reuse Full power									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			
Channel				141300	141500	141700			
Frequency (MHz)				706.5	707.5	708.5			
15	Pl2 BPSK	1	1	23.13	23.12	23.07			
15	Pl2 BPSK	1	40	23.11	23.15	22.99	24.0	0.0	
15	Pl2 BPSK	1	77	23.08	23.09	23.03			
15	Pl2 BPSK	36	0	22.67	22.67	22.46	23.5	0.5	
15	Pl2 BPSK	36	25	22.96	23.07	22.94	24.0	0.0	
15	Pl2 BPSK	36	43	22.62	22.61	22.59			
15	Pl2 BPSK	75	0	22.63	22.72	22.66	23.5	0.5	
15	QPSK	1	1	23.16	23.21	23.08			
15	QPSK	1	40	23.17	23.19	23.15	24.0	0.0	
15	QPSK	1	77	23.15	23.17	23.05			
15	QPSK	36	0	22.17	22.22	22.03	23.0	1.0	
15	QPSK	36	25	23.06	23.15	23.08	24.0	0.0	
15	QPSK	36	43	22.10	22.19	22.03			
15	QPSK	75	0	22.28	22.28	22.10	23.0	1.0	
15	16QAM	1	1	22.16	22.21	22.03	23.0	1.0	
15	16QAM	1	1	20.83	20.97	20.80	21.5	2.5	
15	256QAM	1	1	18.68	18.83	18.76	19.5	4.5	
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711			
10	QPSK	1	1	23.08	23.21	23.08	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	1	22.96	23.12	23.05	24.0	0.0	



n25 Ant0 DS13 Simultaneous 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				372000	376500	381000			
Frequency (MHz)				1860	1862.5	1905			
20	PI2 BPSK	1	1	13.77	14.05	13.84			
20	PI2 BPSK	1	53	13.68	13.83	13.73	15.3	0.0	
20	PI2 BPSK	1	104	13.90	13.96	13.90			
20	PI2 BPSK	50	0	13.76	13.84	13.69	15.3	0.0	
20	PI2 BPSK	50	56	13.75	13.86	13.72	15.3	0.0	
20	PI2 BPSK	50	56	13.71	13.83	13.76	15.3	0.0	
20	PI2 BPSK	100	0	13.76	13.87	13.79	15.3	0.0	
20	QPSK	1	1	14.01	14.07	13.99			
20	QPSK	1	53	13.71	13.85	13.76	15.3	0.0	
20	QPSK	1	104	13.81	13.94	13.82			
20	QPSK	50	0	13.77	13.86	13.77	15.3	0.0	
20	QPSK	50	56	13.76	13.88	13.74	15.3	0.0	
20	QPSK	50	56	13.73	13.81	13.75	15.3	0.0	
20	QPSK	100	0	13.75	13.85	13.79	15.3	0.0	
20	16QAM	1	1	13.84	13.94	13.82	15.3	0.0	
20	64QAM	1	1	13.94	13.97	13.94	15.3	0.0	
20	256QAM	1	1	13.85	13.94	13.80	15.3	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1862.5	1907.5	(dBm)	(dB)	
15	QPSK	1	1	13.65	13.81	13.72	15.3	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1862.5	1910	(dBm)	(dB)	
10	QPSK	1	1	13.71	13.99	13.73	15.3	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1862.5	1912.5	(dBm)	(dB)	
5	QPSK	1	1	13.69	13.90	13.76	15.3	0.0	

n26 Ant0 DS13 Simultaneous Reuse Full 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				164600	166300	167800			
Frequency (MHz)				824	831.5	837			
20	PI2 BPSK	1	1	22.55	22.65	22.49			
20	PI2 BPSK	1	53	22.43	22.58	22.49	24.0	0.0	
20	PI2 BPSK	1	104	22.56	22.62	22.45			
20	PI2 BPSK	50	0	22.61	22.67	22.53	24.0	0.0	
20	PI2 BPSK	50	56	22.59	22.64	22.56	24.0	0.0	
20	PI2 BPSK	50	56	22.45	22.56	22.40	24.0	0.0	
20	PI2 BPSK	100	0	22.54	22.67	22.61	24.0	0.0	
20	QPSK	1	1	22.59	22.73	22.66			
20	QPSK	1	53	22.57	22.64	22.52	24.0	0.0	
20	QPSK	1	104	22.62	22.69	22.65			
20	QPSK	50	0	22.59	22.66	22.55	24.0	0.0	
20	QPSK	50	56	22.54	22.72	22.63	24.0	0.0	
20	QPSK	50	56	22.52	22.63	22.48	24.0	0.0	
20	QPSK	100	0	22.58	22.72	22.57	24.0	0.0	
20	16QAM	1	1	22.63	22.69	22.58	24.0	0.0	
20	64QAM	1	1	21.97	22.09	21.92	23.5	0.5	
20	256QAM	1	1	19.72	19.77	19.59	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5	(dBm)	(dB)	
15	PI2 BPSK	1	1	22.42	22.69	22.49	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	(dBm)	(dB)	
10	PI2 BPSK	1	1	22.45	22.68	22.53	24.0	0.0	
Channel				163500	166300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	PI2 BPSK	1	1	22.53	22.65	22.50	24.0	0.0	

n66 Ant0 DS13 Simultaneous 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	14.84	14.87	14.91			
40	PI2 BPSK	1	108	14.85	14.95	14.82	16.4	0.0	
40	PI2 BPSK	1	214	15.00	15.06	14.98			
40	PI2 BPSK	108	0	14.90	14.96	14.83	16.4	0.0	
40	PI2 BPSK	108	54	14.79	14.93	14.83	16.4	0.0	
40	PI2 BPSK	108	108	15.02	15.08	14.94	16.4	0.0	
40	PI2 BPSK	216	0	14.85	14.93	14.82	16.4	0.0	
40	QPSK	1	1	15.17	15.27	15.10			
40	QPSK	1	108	14.81	14.90	14.82	16.4	0.0	
40	QPSK	1	214	14.92	15.04	14.90			
40	QPSK	108	0	15.02	14.95	14.97	16.4	0.0	
40	QPSK	108	54	15.07	15.14	15.01	16.4	0.0	
40	QPSK	108	108	14.89	15.06	14.87	16.4	0.0	
40	QPSK	216	0	14.86	14.95	14.88	16.4	0.0	
40	16QAM	1	1	15.14	15.23	15.10	16.4	0.0	
40	64QAM	1	1	14.91	15.02	14.93	16.4	0.0	
40	256QAM	1	1	14.96	15.06	14.93	16.4	0.0	
Channel				345500	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	14.87	15.00	14.85	16.4	0.0	
Channel				344000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	14.91	14.93	14.89	16.4	0.0	
Channel				343500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	14.93	14.95	14.87	16.4	0.0	
Channel				342500	349000	356000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1765	(dBm)	(dB)	
10	QPSK	1	1	14.89	14.97	14.82	#REF!	0.0	
Channel				342000	349000	356500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1772.5	(dBm)	(dB)	
5	QPSK	1	1	14.96	15.01	14.88	16.4	0.0	



n71 Ant0 DSI3 Simultaneous Reuse Full power								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.89	22.93	22.75		
20	PI2 BPSK	1	53	22.83	22.99	22.90	24.0	0.0
20	PI2 BPSK	1	104	22.67	22.79	22.59		
20	PI2 BPSK	50	0	22.74	22.84	22.87	24.0	0.0
20	PI2 BPSK	50	99	22.91	22.90	22.90	24.0	0.0
20	PI2 BPSK	50	56	22.77	22.85	22.64	24.0	0.0
20	PI2 BPSK	100	0	22.92	23.01	22.86		
20	QPSK	1	1	23.02	23.13	22.86		
20	QPSK	1	53	22.89	22.95	22.85	24.0	0.0
20	QPSK	1	104	22.63	22.70	22.69		
20	QPSK	50	0	22.86	22.85	22.84	24.0	0.0
20	QPSK	50	99	22.78	22.96	22.81	24.0	0.0
20	QPSK	50	56	22.85	22.85	22.80	24.0	0.0
20	QPSK	100	0	22.83	22.97	22.82		
20	16QAM	1	1	22.86	23.08	23.09	24.0	0.0
20	64QAM	1	1	22.25	22.45	22.34	24.0	0.0
20	256QAM	1	1	20.11	20.09	20.08	21.0	3.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	23.02	22.85	22.88	24.0	0.0
Channel				133600	136100	138600		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.97	23.06	22.89	24.0	0.0
Channel				133100	136100	139100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.88	23.04	22.93	24.0	0.0



n41 Ant0 DSI3 Standalone Power PC3									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.08	20.13	20.02			
100	PI/2 BPSK	1	137	19.88	20.01	19.89	21.1	0.0	
100	PI/2 BPSK	1	271	19.83	19.97	19.89			
100	PI/2 BPSK	135	0	19.70	19.84	19.74	21.1	0.0	
100	PI/2 BPSK	135	69	19.87	19.93	19.78	21.1	0.0	
100	PI/2 BPSK	135	138	19.79	19.91	19.86	21.1	0.0	
100	PI/2 BPSK	270	0	19.72	19.86	19.80			
100	QPSK	1	1	20.16	20.28	20.02			
100	QPSK	1	137	19.93	20.02	19.95	21.1	0.0	
100	QPSK	1	271	19.81	19.96	19.89			
100	QPSK	135	0	19.83	19.88	19.74	21.1	0.0	
100	QPSK	135	69	19.91	19.97	19.88	21.1	0.0	
100	QPSK	135	138	19.79	19.93	19.83	21.1	0.0	
100	QPSK	270	0	19.87	19.95	19.83			
100	16QAM	1	1	19.69	19.82	19.73	21.1	0.0	
100	64QAM	1	1	20.05	20.10	19.97	21.1	0.0	
100	256QAM	1	1	18.47	18.61	18.56	19.5	1.6	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.79	19.87	19.65	21.1	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.81	19.81	19.68	21.1	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.77	19.85	19.71	21.1	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.75	19.80	19.66	21.1	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.75	19.87	19.64	21.1	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.74	19.83	19.64	21.1	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.78	19.86	19.65	21.1	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.74	19.79	19.65	21.1	0.0	

n41 Ant0 DSI3 Standalone Power PC2									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	20.03	20.01	20.07			
100	PI/2 BPSK	1	137	19.96	20.08	20.01	21.1	0.0	
100	PI/2 BPSK	1	271	19.88	20.00	19.86			
100	PI/2 BPSK	135	0	19.94	19.99	19.92	21.1	0.0	
100	PI/2 BPSK	135	69	19.90	19.97	19.88	21.1	0.0	
100	PI/2 BPSK	135	138	19.84	19.98	19.84	21.1	0.0	
100	PI/2 BPSK	270	0	19.85	19.95	19.88			
100	QPSK	1	1	20.05	20.11	20.08			
100	QPSK	1	137	20.02	20.10	19.97	21.1	0.0	
100	QPSK	1	271	19.89	20.00	19.94			
100	QPSK	135	0	19.84	19.98	19.84	21.1	0.0	
100	QPSK	135	69	19.89	19.99	19.91	21.1	0.0	
100	QPSK	135	138	19.82	19.97	19.83	21.1	0.0	
100	QPSK	270	0	19.82	19.96	19.86			
100	16QAM	1	1	19.85	19.94	19.86	21.1	0.0	
100	64QAM	1	1	19.78	19.92	19.79	21.1	0.0	
100	256QAM	1	1	19.82	19.91	19.84	21.1	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.97	20.06	19.94	21.1	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	19.92	20.08	19.93	21.1	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.88	20.01	19.93	21.1	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	19.91	20.04	19.93	21.1	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.90	20.03	19.95	21.1	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	19.88	19.99	20.00	21.1	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	19.92	20.02	19.93	21.1	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	19.96	19.98	19.95	21.1	0.0	



n41 Ant0 DSI3 Simultaneous Power PC3									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	14.44	14.51	14.36			
100	PI/2 BPSK	1	137	14.40	14.47	14.36	15.8	0.0	
100	PI/2 BPSK	1	271	14.41	14.50	14.39			
100	PI/2 BPSK	135	0	14.30	14.40	14.32	15.8	0.0	
100	PI/2 BPSK	135	69	14.34	14.46	14.40	15.8	0.0	
100	PI/2 BPSK	135	138	14.25	14.33	14.27	15.8	0.0	
100	PI/2 BPSK	270	0	14.29	14.42	14.34			
100	QPSK	1	1	14.52	14.57	14.46			
100	QPSK	1	137	14.37	14.49	14.42	15.8	0.0	
100	QPSK	1	271	14.39	14.48	14.42			
100	QPSK	135	0	14.39	14.38	14.37	15.8	0.0	
100	QPSK	135	69	14.24	14.45	14.24	15.8	0.0	
100	QPSK	135	138	14.25	14.38	14.24	15.8	0.0	
100	QPSK	270	0	14.35	14.44	14.37	15.8	0.0	
100	16QAM	1	1	14.33	14.39	14.25	15.8	0.0	
100	64QAM	1	1	14.18	14.31	14.20	15.8	0.0	
100	256QAM	1	1	14.23	14.36	14.26	15.8	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.29	14.31	14.30	15.8	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.32	14.35	14.26	15.8	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.32	14.37	14.32	15.8	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	14.29	14.34	14.30	15.8	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.29	14.35	14.28	15.8	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.25	14.32	14.31	15.8	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.29	14.39	14.29	15.8	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.29	14.38	14.28	15.8	0.0	

n41 Ant0 DSI3 Simultaneous Power PC2									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	14.48	14.55	14.55			
100	PI/2 BPSK	1	137	14.53	14.58	14.51	15.8	0.0	
100	PI/2 BPSK	1	271	14.44	14.55	14.45			
100	PI/2 BPSK	135	0	14.40	14.51	14.36	15.8	0.0	
100	PI/2 BPSK	135	69	14.42	14.49	14.40	15.8	0.0	
100	PI/2 BPSK	135	138	14.37	14.47	14.38	15.8	0.0	
100	PI/2 BPSK	270	0	14.38	14.45	14.30			
100	QPSK	1	1	14.50	14.61	14.49			
100	QPSK	1	137	14.49	14.58	14.50	15.8	0.0	
100	QPSK	1	271	14.46	14.55	14.49			
100	QPSK	135	0	14.39	14.51	14.48	15.8	0.0	
100	QPSK	135	69	14.42	14.54	14.40	15.8	0.0	
100	QPSK	135	138	14.44	14.52	14.37	15.8	0.0	
100	QPSK	270	0	14.40	14.47	14.42	15.8	0.0	
100	16QAM	1	1	14.32	14.46	14.34	15.8	0.0	
100	64QAM	1	1	14.37	14.44	14.30	15.8	0.0	
100	256QAM	1	1	14.32	14.43	14.36	15.8	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	14.51	14.54	14.40	15.8	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	14.46	14.51	14.44	15.8	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	14.43	14.58	14.41	15.8	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	14.38	14.55	14.48	15.8	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	14.38	14.52	14.50	15.8	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	14.39	14.50	14.46	15.8	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	14.42	14.48	14.45	15.8	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	14.34	14.57	14.47	15.8	0.0	



n2 Ant1 DSI3 Standalone Power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.		
Channel								
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	18.61	18.84	18.77		
20	PI2 BPSK	1	53	18.56	18.67	18.63	20.3	0.0
20	PI2 BPSK	1	104	18.73	18.68	18.72		
20	PI2 BPSK	50	0	18.64	18.67	18.70	20.3	0.0
20	PI2 BPSK	50	28	18.51	18.72	18.58	20.3	0.0
20	PI2 BPSK	50	56	18.61	18.65	18.64		
20	PI2 BPSK	100	0	18.68	18.78	18.57	20.3	0.0
20	QPSK	1	1	18.71	18.90	18.75		
20	QPSK	1	53	18.66	18.76	18.70	20.3	0.0
20	QPSK	1	104	18.74	18.81	18.68		
20	QPSK	50	0	18.79	18.85	18.75	20.3	0.0
20	QPSK	50	28	18.62	18.89	18.70	20.3	0.0
20	QPSK	50	56	18.65	18.75	18.67		
20	QPSK	100	0	18.65	18.82	18.76		
20	16QAM	1	1	18.75	18.74	18.68	20.3	0.0
20	16QAM	1	1	18.77	18.81	18.71	20.3	0.0
20	256QAM	1	1	18.73	18.87	18.69	20.3	0.0
Channel								
Frequency (MHz)				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.77	18.80	18.80	20.3	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.65	18.80	18.65		
Channel								
Frequency (MHz)				1892.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.74	18.77	18.82	20.3	0.0

n5 Ant1 DSI3 Standalone Reuse Full power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.		
Channel								
Frequency (MHz)				166800	167300	167800		
20	PI2 BPSK	1	1	22.07	22.21	22.15		
20	PI2 BPSK	1	53	22.86	22.95	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.92	22.98	22.86		
20	PI2 BPSK	50	0	22.97	23.05	22.87	24.0	0.0
20	PI2 BPSK	50	28	23.05	23.01	23.01	24.0	0.0
20	PI2 BPSK	50	56	22.89	23.05	22.97		
20	PI2 BPSK	100	0	22.86	23.02	22.84	24.0	0.0
20	QPSK	1	1	23.25	23.39	23.29		
20	QPSK	1	53	23.02	23.02	22.94	24.0	0.0
20	QPSK	1	104	23.08	23.05	22.92		
20	QPSK	50	0	23.04	23.12	22.93	24.0	0.0
20	QPSK	50	28	23.19	23.22	23.15	24.0	0.0
20	QPSK	50	56	23.12	23.19	23.10		
20	QPSK	100	0	23.02	23.20	23.14	24.0	0.0
20	16QAM	1	1	23.16	23.19	23.24	24.0	0.0
20	16QAM	1	1	22.81	22.52	22.44	23.0	1.0
20	256QAM	1	1	19.94	20.22	19.85	21.0	3.0
Channel								
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.16	23.31	23.01	24.0	0.0
Channel								
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	829	836.5	844		
Channel								
Frequency (MHz)				162300	162300	162300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.20	23.25	23.10	24.0	0.0

n7 Ant1 DSI3 Standalone Power

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.		
Channel								
Frequency (MHz)				506000	507000	510000		
40	PI2 BPSK	1	1	19.40	19.39	19.53		
40	PI2 BPSK	1	108	19.16	19.27	19.24	20.7	0.0
40	PI2 BPSK	1	214	19.35	19.46	19.31		
40	PI2 BPSK	108	0	19.16	19.26	19.04	20.7	0.0
40	PI2 BPSK	108	54	19.21	19.16	19.06	20.7	0.0
40	PI2 BPSK	108	108	19.22	19.29	19.28		
40	PI2 BPSK	216	0	19.20	19.34	19.09	20.7	0.0
40	QPSK	1	1	19.58	19.81	19.37		
40	QPSK	1	108	19.27	19.38	19.31	20.7	0.0
40	QPSK	1	214	19.30	19.50	19.38		
40	QPSK	108	0	19.24	19.31	19.24	20.7	0.0
40	QPSK	108	54	19.14	19.23	19.24	20.7	0.0
40	QPSK	108	108	19.12	19.20	19.21		
40	QPSK	216	0	19.28	19.30	19.22	20.7	0.0
40	16QAM	1	1	19.16	19.21	19.07	20.7	0.0
40	16QAM	1	1	19.17	19.30	19.29	20.7	0.0
40	256QAM	1	1	19.16	19.33	19.22	20.7	0.0
Channel								
Frequency (MHz)				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.08	19.06	19.03	20.7	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	25.12.5	25.35	25.7.5		
Channel								
Frequency (MHz)				25.10	25.35	25.60	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.08	19.06	19.03	20.7	0.0
Channel								
Frequency (MHz)				507000	507000	512500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.08	19.06	19.03	20.7	0.0
Channel								
Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	25.65	25.65	25.65		
Channel								
Frequency (MHz)				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.08	19.06	19.03	20.7	0.0



n25 Ant1 DSI3 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				372000	376500	381000				
Frequency (MHz)				1800	1825	1905				
20	PI2 BPSK	1	1	18.91	19.09	19.01				
20	PI2 BPSK	1	53	18.92	18.94	18.92	20.3	0.0		
20	PI2 BPSK	1	104	18.96	18.99	18.01				
20	PI2 BPSK	50	0	18.94	19.04	18.99	20.3	0.0		
20	PI2 BPSK	50	26	18.88	19.02	18.88	20.3	0.0		
20	PI2 BPSK	50	55	18.92	18.99	18.88				
20	PI2 BPSK	100	0	18.93	19.09	18.99	20.3	0.0		
20	QPSK	1	1	19.16	19.19	19.15				
20	QPSK	1	53	19.00	19.09	18.98	20.3	0.0		
20	QPSK	1	104	19.00	19.11	18.98				
20	QPSK	50	0	19.06	19.09	19.09	20.3	0.0		
20	QPSK	50	26	19.09	19.16	19.12	20.3	0.0		
20	QPSK	50	55	18.98	19.06	18.93				
20	QPSK	100	0	19.01	19.11	19.01	20.3	0.0		
20	16QAM	1	1	19.00	19.09	18.96	20.3	0.0		
20	64QAM	1	1	19.01	19.13	19.01	20.3	0.0		
20	256QAM	1	1	19.03	19.15	19.00	20.3	0.0		
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1875	1825	1907.5				
15	QPSK	1	1	18.42	18.53	18.36	20.3	0.0		
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1862.5	1910				
10	QPSK	1	1	18.51	18.62	18.40	20.3	0.0		
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1882.5	1912.5				
5	QPSK	1	1	18.42	18.60	18.40	20.3	0.0		

n30 Ant1 DSI3 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				461500	465000	469500				
Frequency (MHz)				2310						
10	PI2 BPSK	1	1	20.58						
10	PI2 BPSK	1	26	20.33			21.5	0.0		
10	PI2 BPSK	1	50	20.28						
10	PI2 BPSK	25	0	20.23			21.5	0.0		
10	PI2 BPSK	25	14	20.22						
10	PI2 BPSK	25	27	20.24			21.5	0.0		
10	PI2 BPSK	50	0	20.21						
10	QPSK	1	1	20.58						
10	QPSK	1	26	20.37			21.5	0.0		
10	QPSK	1	50	20.29						
10	QPSK	25	0	20.26			21.5	0.0		
10	QPSK	25	14	20.27						
10	QPSK	25	27	20.25			21.5	0.0		
10	QPSK	50	0	20.29						
10	16QAM	1	1	20.19			21.5	0.0		
10	64QAM	1	1	20.36			21.5	0.0		
10	256QAM	1	1	19.04			19.5	2.0		
Channel				461500	465000	469500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2307.5	2310	2312.5				
5	QPSK	1	1	20.02	20.22	20.10	21.5	0.0		

n66 Ant1 DSI3 Standalone Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				346000	349000	352000				
Frequency (MHz)				1720	1745	1760				
40	PI2 BPSK	1	1	18.14	18.23	18.09				
40	PI2 BPSK	1	108	18.01	17.98	18.11	19.8	0.0		
40	PI2 BPSK	1	214	18.02	18.12	18.09				
40	PI2 BPSK	108	0	18.18	18.21	18.13	19.8	0.0		
40	PI2 BPSK	108	54	18.16	18.20	18.08				
40	PI2 BPSK	108	108	18.10	18.16	18.11	19.8	0.0		
40	PI2 BPSK	216	0	18.15	18.17	18.01				
40	QPSK	1	1	18.18	18.23	18.15				
40	QPSK	1	108	18.18	18.26	18.05	19.8	0.0		
40	QPSK	1	214	18.12	18.14	18.09				
40	QPSK	108	0	18.07	18.17	18.00	19.8	0.0		
40	QPSK	108	54	18.11	18.27	18.12	19.8	0.0		
40	QPSK	108	108	18.17	18.18	18.00				
40	QPSK	216	0	18.11	18.26	18.00	19.8	0.0		
40	16QAM	1	1	18.20	18.16	18.03	19.8	0.0		
40	64QAM	1	1	18.20	18.21	18.07	19.8	0.0		
40	256QAM	1	1	18.16	18.23	18.04	19.8	0.0		
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	18.20	18.22	18.04	19.8	0.0		
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	18.10	18.24	18.04	19.8	0.0		
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	18.10	18.16	18.11	19.8	0.0		
Channel				342000	349000	356000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	18.20	18.25	18.08	19.8	0.0		
Channel				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1712.5	1745	1772.5				
5	QPSK	1	1	18.14	18.27	18.05	19.8	0.0		



n71 Ant1 Standalone Reuse Full power								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.60	22.78	22.79		
20	PI2 BPSK	1	53	22.65	22.87	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.63	22.65	22.55		
20	PI2 BPSK	50	0	22.64	22.84	22.85	24.0	0.0
20	PI2 BPSK	50	99	22.67	22.88	22.77	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.81	22.61	24.0	0.0
20	PI2 BPSK	100	0	22.69	22.88	22.65		
20	QPSK	1	1	22.73	22.92	22.86		
20	QPSK	1	53	22.81	22.85	22.79	24.0	0.0
20	QPSK	1	104	22.61	22.67	22.65		
20	QPSK	50	0	22.80	22.83	22.81	24.0	0.0
20	QPSK	50	99	22.75	22.87	22.71	24.0	0.0
20	QPSK	50	56	22.61	22.81	22.81	24.0	0.0
20	QPSK	100	0	22.68	22.83	22.68		
20	16QAM	1	1	22.70	22.86	22.69	24.0	0.0
20	64QAM	1	1	22.79	22.95	22.71	23.0	1.0
20	256QAM	1	1	20.05	20.05	20.00	21.0	3.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.71	22.88	22.68	24.0	0.0
Channel				133500	136100	138500		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.55	22.84	22.73	24.0	0.0
Channel				133100	135100	137100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.59	22.84	22.70	24.0	0.0



n2 Ant1 DS13 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.				
Channel										
Frequency (MHz)				1860	1880	1900				
20	Pi2 BPSK	1	1	15.33	15.42	15.29	17.0	0.0		
20	Pi2 BPSK	1	53	15.42	15.44	15.38				
20	Pi2 BPSK	1	104	15.40	15.34	15.49				
20	Pi2 BPSK	50	0	15.47	15.25	15.51	17.0	0.0		
20	Pi2 BPSK	50	28	15.25	15.47	15.38	17.0	0.0		
20	Pi2 BPSK	50	56	15.23	15.38	15.24				
20	Pi2 BPSK	100	0	15.42	15.40	15.34	17.0	0.0		
20	QPSK	1	1	15.47	15.39	15.43				
20	QPSK	1	53	15.44	15.39	15.46	17.0	0.0		
20	QPSK	1	104	15.43	15.41	15.53				
20	QPSK	50	0	15.43	15.45	15.48	17.0	0.0		
20	QPSK	50	28	15.31	15.51	15.35	17.0	0.0		
20	QPSK	50	56	15.40	15.41	15.32				
20	QPSK	100	0	15.27	15.44	15.40	17.0	0.0		
20	16QAM	1	1	15.33	15.43	15.35	17.0	0.0		
20	16QAM	1	1	15.42	15.36	15.37	17.0	0.0		
20	256QAM	1	1	15.45	15.34	15.45	17.0	0.0		
Channel										
Frequency (MHz)				371600	376000	380500	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	15.43	15.37	15.41	17.0	0.0		
Channel										
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	15.46	15.33	15.38	17.0	0.0		
Channel										
Frequency (MHz)				1892.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	15.43	15.31	15.36	17.0	0.0		

n5 Ant1 Reuse Full power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.				
Channel										
Frequency (MHz)				166800	167300	167800				
20	Pi2 BPSK	1	1	22.07	22.21	22.15	24.0	0.0		
20	Pi2 BPSK	1	53	22.86	22.95	22.79				
20	Pi2 BPSK	1	104	22.92	22.98	22.86				
20	Pi2 BPSK	50	0	22.97	23.05	22.87	24.0	0.0		
20	Pi2 BPSK	50	28	23.05	23.01	23.01	24.0	0.0		
20	Pi2 BPSK	50	56	22.89	23.05	22.97	24.0	0.0		
20	Pi2 BPSK	100	0	22.86	23.02	22.84				
20	QPSK	1	1	23.25	23.39	23.29				
20	QPSK	1	53	23.02	23.02	22.94	24.0	0.0		
20	QPSK	1	104	23.08	23.05	22.92				
20	QPSK	50	0	23.04	23.12	22.93	24.0	0.0		
20	QPSK	50	28	23.19	23.22	23.15	24.0	0.0		
20	QPSK	50	56	23.12	23.19	23.10	24.0	0.0		
20	QPSK	100	0	23.02	23.20	23.14				
20	16QAM	1	1	23.16	23.19	23.24	24.0	0.0		
20	16QAM	1	1	22.31	22.52	22.44	23.0	3.0		
20	256QAM	1	1	19.94	20.22	19.95	21.0	3.0		
Channel										
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	23.16	23.31	23.01	24.0	0.0		
Channel										
Frequency (MHz)				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	23.06	23.28	23.22	24.0	0.0		
Channel										
Frequency (MHz)				165300	167300	167300	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	23.20	23.25	23.10	24.0	0.0		

n7 Ant1 DS13 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. F.Freq.	Middle Ch. F.Freq.	High Ch. F.Freq.				
Channel										
Frequency (MHz)				506000	507000	510000				
40	Pi2 BPSK	1	1	16.37	16.23	16.34				
40	Pi2 BPSK	1	108	16.00	16.07	15.99	17.5	0.0		
40	Pi2 BPSK	1	214	16.08	16.22	16.09				
40	Pi2 BPSK	108	0	16.00	16.13	16.05	17.5	0.0		
40	Pi2 BPSK	108	54	15.99	16.08	16.00	17.5	0.0		
40	Pi2 BPSK	108	108	16.08	16.15	16.09				
40	Pi2 BPSK	216	0	16.10	16.20	16.11	17.5	0.0		
40	QPSK	1	1	16.31	16.39	16.22				
40	QPSK	1	108	16.05	16.11	16.04	17.5	0.0		
40	QPSK	1	214	16.12	16.21	16.11				
40	QPSK	108	0	16.16	16.07	16.14	17.5	0.0		
40	QPSK	108	54	16.19	16.21	16.11	17.5	0.0		
40	QPSK	108	108	16.06	16.17	16.11				
40	QPSK	216	0	15.94	16.08	16.01	17.5	0.0		
40	16QAM	1	1	16.07	16.21	16.14	17.5	0.0		
40	16QAM	1	1	16.07	16.19	16.07	17.5	0.0		
40	256QAM	1	1	16.13	16.27	16.21	17.5	0.0		
Channel										
Frequency (MHz)				506000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	16.04	16.11	16.00	17.5	0.0		
Channel										
Frequency (MHz)				505500	507000	510500	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.02	16.12	16.07	17.5	0.0		
Channel										
Frequency (MHz)				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	16.08	16.15	16.02	17.5	0.0		
Channel										
Frequency (MHz)				507000	507000	512000	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	16.08	16.19	16.00	17.5	0.0		
Channel										
Frequency (MHz)				507000	507000	513000	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	16.05	16.17	16.01	17.5	0.0		
Channel										
Frequency (MHz)				506500	507000	513500	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	1	16.09	16.20	16.04	17.5	0.0		



n25 Ant1 DSI3 Simultaneous 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				372000	376500	381000			
Frequency (MHz)				1860	1862.5	1865			
20	PI2 BPSK	1	1	15.50	15.56	15.62	17.0	0.0	
20	PI2 BPSK	1	53	15.63	15.68	15.61			
20	PI2 BPSK	1	104	15.62	15.54	15.63			
20	PI2 BPSK	50	0	15.62	15.51	15.64	17.0	0.0	
20	PI2 BPSK	50	26	15.50	15.64	15.58	17.0	0.0	
20	PI2 BPSK	50	56	15.49	15.61	15.49			
20	PI2 BPSK	100	0	15.58	15.66	15.50	17.0	0.0	
20	QPSK	1	1	15.77	15.79	15.71			
20	QPSK	1	53	15.67	15.53	15.63	17.0	0.0	
20	QPSK	1	104	15.85	15.56	15.69			
20	QPSK	50	0	15.63	15.68	15.64	17.0	0.0	
20	QPSK	50	26	15.54	15.69	15.59	17.0	0.0	
20	QPSK	50	56	15.57	15.68	15.56			
20	QPSK	100	0	15.50	15.65	15.55	17.0	0.0	
20	16QAM	1	1	15.51	15.58	15.62	17.0	0.0	
20	16QAM	1	1	15.64	15.51	15.59	17.0	0.0	
20	256QAM	1	1	15.59	15.53	15.67	17.0	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1867.5	1862.5	1867.5			
15	QPSK	1	1	15.11	15.08	15.02	17.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1865	1862.5	1810			
10	QPSK	1	1	15.09	15.12	15.01	17.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1862.5	1862.5	1912.5			
5	QPSK	1	1	15.08	15.10	15.08	17.0	0.0	

n30 Ant1 DSI3 Simultaneous 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					462000				
Frequency (MHz)					2310				
10	PI2 BPSK	1	1		17.22				
10	PI2 BPSK	1	26		17.16		17.8	0.0	
10	PI2 BPSK	1	50		17.17				
10	PI2 BPSK	25	0		17.25		17.8	0.0	
10	PI2 BPSK	25	44		17.15				
10	PI2 BPSK	25	27		17.12		17.8	0.0	
10	PI2 BPSK	50	0		17.26				
10	QPSK	1	1		17.37				
10	QPSK	1	26		17.17		17.8	0.0	
10	QPSK	1	50		17.14				
10	QPSK	25	0		17.17		17.8	0.0	
10	QPSK	25	14		17.14		17.8	0.0	
10	QPSK	25	27		17.14				
10	QPSK	50	0		17.06		17.8	0.0	
10	16QAM	1	1		17.18		17.8	0.0	
10	16QAM	1	1		17.34		17.8	0.0	
10	256QAM	1	1		17.15		17.8	0.0	
Channel				461500	462000	462500			
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1		17.11	17.15	17.15	17.8	0.0

n66 Ant1 DSI3 Simultaneous 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				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	17.15	17.21	17.27			
40	PI2 BPSK	1	108	17.07	17.16	17.09	18.4	0.0	
40	PI2 BPSK	1	214	17.12	17.21	17.22			
40	PI2 BPSK	108	0	17.17	17.26	17.24	18.4	0.0	
40	PI2 BPSK	108	44	17.13	17.28	17.02			
40	PI2 BPSK	108	108	17.26	17.18	17.26			
40	PI2 BPSK	216	0	17.23	17.13	17.22	18.4	0.0	
40	QPSK	1	1	17.20	17.31	17.23			
40	QPSK	1	108	17.11	17.25	17.20	18.4	0.0	
40	QPSK	1	214	17.23	17.30	17.23			
40	QPSK	108	0	17.22	17.22	17.13	18.4	0.0	
40	QPSK	108	54	17.10	17.26	17.02	18.4	0.0	
40	QPSK	108	108	17.05	17.20	17.16			
40	QPSK	216	0	17.17	17.27	17.23	18.4	0.0	
40	16QAM	1	1	17.16	17.22	17.18	18.4	0.0	
40	16QAM	1	1	17.14	17.11	17.26	18.4	0.0	
40	256QAM	1	1	17.10	17.25	17.16	18.4	0.0	
Channel				345500	349000	353000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	17.24	17.17	17.27			
Channel				345000	349000	353500			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	17.16	17.19	17.26	18.4	0.0	
Channel				344500	349000	354000			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	17.20	17.17	17.20	18.4	0.0	
Channel				344000	349000	354500			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	17.21	17.21	17.22	18.4	0.0	
Channel				343500	349000	355000			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	17.29	17.22	17.19	18.4	0.0	



n71 Ant1 DSI3 Simultaneous Reuse Full power								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel				134600	136100	137600		
Frequency (MHz)				673	680.5	688		
20	PI2 BPSK	1	1	22.60	22.78	22.79		
20	PI2 BPSK	1	53	22.65	22.87	22.79	24.0	0.0
20	PI2 BPSK	1	104	22.63	22.65	22.55		
20	PI2 BPSK	50	0	22.64	22.84	22.85	24.0	0.0
20	PI2 BPSK	50	99	22.67	22.88	22.77	24.0	0.0
20	PI2 BPSK	50	56	22.80	22.81	22.61	24.0	0.0
20	PI2 BPSK	100	0	22.69	22.88	22.65		
20	QPSK	1	1	22.73	22.92	22.86		
20	QPSK	1	53	22.81	22.85	22.79	24.0	0.0
20	QPSK	1	104	22.61	22.67	22.65		
20	QPSK	50	0	22.80	22.83	22.81	24.0	0.0
20	QPSK	50	99	22.75	22.87	22.71	24.0	0.0
20	QPSK	50	56	22.61	22.81	22.81	24.0	0.0
20	QPSK	100	0	22.68	22.83	22.68		
20	16QAM	1	1	22.70	22.86	22.69	24.0	0.0
20	64QAM	1	1	22.79	22.95	22.71	23.0	1.0
20	256QAM	1	1	20.05	20.05	20.00	21.0	3.0
Channel				134100	136100	138100		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	1	22.71	22.88	22.68	24.0	0.0
Channel				133500	136100	138500		
Frequency (MHz)				668	680.5	693		
10	QPSK	1	1	22.55	22.84	22.73	24.0	0.0
Channel				133100	135100	137100		
Frequency (MHz)				665.5	680.5	695.5		
5	QPSK	1	1	22.59	22.84	22.70	24.0	0.0



n41 Ant1 DSI3 Standalone Power PC3									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.74	18.91	18.87			
100	PI/2 BPSK	1	137	18.60	18.68	18.64	20.3	0.0	
100	PI/2 BPSK	1	271	18.54	18.66	18.48			
100	PI/2 BPSK	135	0	18.60	18.75	18.65	20.3	0.0	
100	PI/2 BPSK	135	69	18.56	18.74	18.66	20.3	0.0	
100	PI/2 BPSK	135	138	18.56	18.67	18.54	20.3	0.0	
100	PI/2 BPSK	270	0	18.56	18.60	18.51			
100	QPSK	1	1	19.03	19.05	19.00			
100	QPSK	1	137	18.54	18.69	18.62	20.3	0.0	
100	QPSK	1	271	18.45	18.57	18.39			
100	QPSK	135	0	18.56	18.67	18.71	20.3	0.0	
100	QPSK	135	69	18.49	18.72	18.59	20.3	0.0	
100	QPSK	135	138	18.52	18.57	18.55	20.3	0.0	
100	QPSK	270	0	18.57	18.72	18.59	20.3	0.0	
100	16QAM	1	1	18.71	18.78	18.68	20.3	0.0	
100	64QAM	1	1	18.84	18.85	18.72	20.3	0.0	
100	256QAM	1	1	17.54	17.66	17.56	19.5	0.8	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.52	18.68	18.57	20.3	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.56	18.69	18.57	20.3	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.52	18.67	18.61	20.3	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.49	18.59	18.48	20.3	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.54	18.61	18.58	20.3	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.51	18.63	18.57	20.3	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.56	18.70	18.50	20.3	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.45	18.62	18.51	20.3	0.0	

n41 Ant1 DSI3 Standalone Power PC2									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	18.89	19.01	18.94			
100	PI/2 BPSK	1	137	18.91	18.95	18.90	20.3	0.0	
100	PI/2 BPSK	1	271	18.87	18.97	18.97			
100	PI/2 BPSK	135	0	18.70	18.84	18.71	20.3	0.0	
100	PI/2 BPSK	135	69	18.86	19.05	18.99	20.3	0.0	
100	PI/2 BPSK	135	138	18.80	18.73	18.62	20.3	0.0	
100	PI/2 BPSK	270	0	18.95	19.02	18.95			
100	QPSK	1	1	19.18	19.21	19.11			
100	QPSK	1	137	18.90	19.05	18.91	20.3	0.0	
100	QPSK	1	271	18.85	19.02	18.89			
100	QPSK	135	0	18.93	18.98	19.00	20.3	0.0	
100	QPSK	135	69	18.91	19.10	18.93	20.3	0.0	
100	QPSK	135	138	18.89	18.99	19.00	20.3	0.0	
100	QPSK	270	0	18.79	18.99	18.88	20.3	0.0	
100	16QAM	1	1	18.81	18.90	18.78	20.3	0.0	
100	64QAM	1	1	18.91	18.98	18.89	20.3	0.0	
100	256QAM	1	1	18.62	18.76	18.65	20.3	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	18.80	18.89	18.80	20.3	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	18.78	18.94	18.88	20.3	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	18.83	18.91	18.86	20.3	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	18.79	18.95	18.85	20.3	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	18.79	18.87	18.88	20.3	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	18.78	18.93	18.82	20.3	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	18.82	18.88	18.79	20.3	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	18.81	18.92	18.79	20.3	0.0	



n41 Ant1 DSI3 Simultaneous Power PC3									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.19	15.21	15.13			
100	PI/2 BPSK	1	137	15.17	15.39	15.23	16.7	0.0	
100	PI/2 BPSK	1	271	14.95	15.20	15.08			
100	PI/2 BPSK	135	0	15.12	15.34	15.07	16.7	0.0	
100	PI/2 BPSK	135	69	15.16	15.37	15.16	16.7	0.0	
100	PI/2 BPSK	135	138	14.98	15.12	15.12	16.7	0.0	
100	PI/2 BPSK	270	0	15.05	15.10	14.99			
100	QPSK	1	1	15.26	15.41	15.34			
100	QPSK	1	137	15.04	15.16	14.98	16.7	0.0	
100	QPSK	1	271	15.05	15.22	15.13			
100	QPSK	135	0	15.08	15.14	15.14	16.7	0.0	
100	QPSK	135	69	15.06	15.17	15.07	16.7	0.0	
100	QPSK	135	138	15.02	15.08	15.04	16.7	0.0	
100	QPSK	270	0	15.01	15.22	15.15	16.7	0.0	
100	16QAM	1	1	15.23	15.13	15.16	16.7	0.0	
100	64QAM	1	1	15.28	15.27	15.19	16.7	0.0	
100	256QAM	1	1	15.24	15.25	15.12	16.7	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.17	15.19	15.13	16.7	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.24	15.23	15.05	16.7	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.20	15.29	15.15	16.7	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.24	15.30	15.09	16.7	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.17	15.22	15.04	16.7	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.26	15.22	15.13	16.7	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.17	15.25	15.02	16.7	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.26	15.30	15.02	16.7	0.0	

n41 Ant1 DSI3 Simultaneous Power PC2									
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				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI/2 BPSK	1	1	15.42	15.46	15.32			
100	PI/2 BPSK	1	137	15.42	15.21	15.38	16.7	0.0	
100	PI/2 BPSK	1	271	15.24	15.43	15.31			
100	PI/2 BPSK	135	0	15.30	15.45	15.30	16.7	0.0	
100	PI/2 BPSK	135	69	15.43	15.45	15.45	16.7	0.0	
100	PI/2 BPSK	135	138	15.27	15.38	15.31	16.7	0.0	
100	PI/2 BPSK	270	0	15.25	15.37	15.26			
100	QPSK	1	1	15.44	15.47	15.41			
100	QPSK	1	137	15.31	15.38	15.24	16.7	0.0	
100	QPSK	1	271	15.30	15.43	15.30			
100	QPSK	135	0	15.36	15.43	15.38	16.7	0.0	
100	QPSK	135	69	15.31	15.44	15.33	16.7	0.0	
100	QPSK	135	138	15.27	15.37	15.24	16.7	0.0	
100	QPSK	270	0	15.20	15.46	15.40	16.7	0.0	
100	16QAM	1	1	15.41	15.43	15.45	16.7	0.0	
100	64QAM	1	1	15.45	15.35	15.46	16.7	0.0	
100	256QAM	1	1	15.43	15.39	15.31	16.7	0.0	
Channel				508200	518598	528998			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	15.25	15.26	15.20	16.7	0.0	
Channel				507204	518598	529998			
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	15.25	15.30	15.26	16.7	0.0	
Channel				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	15.24	15.17	15.29	16.7	0.0	
Channel				505200	518598	531998			
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	15.30	15.31	15.23	16.7	0.0	
Channel				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	15.28	15.25	15.24	16.7	0.0	
Channel				503202	518598	534000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	15.24	15.11	15.23	16.7	0.0	
Channel				502200	518598	534998			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	15.24	15.31	15.18	16.7	0.0	
Channel				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	15.24	15.11	15.26	16.7	0.0	



Par270 n77 Ant2 DSI3 Standalone PC3								
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)				3750	3840	3930		
100	PI2 BPSK	1	1	14.16	14.23	14.17		
100	PI2 BPSK	1	137	14.24	14.31	14.31	15.7	0.0
100	PI2 BPSK	1	271	14.13	14.29	14.09		
100	PI2 BPSK	135	0	14.28	14.31	14.21	15.7	0.0
100	PI2 BPSK	135	69	14.16	14.27	14.17	15.7	0.0
100	PI2 BPSK	135	138	14.21	14.32	14.21	15.7	0.0
100	PI2 BPSK	270	0	14.11	14.23	14.10		
100	QPSK	1	1	14.32	14.34	14.27		
100	QPSK	1	137	14.15	14.29	14.17	15.7	0.0
100	QPSK	1	271	14.24	14.19	14.28		
100	QPSK	135	0	14.31	14.28	14.19	15.7	0.0
100	QPSK	135	69	14.31	14.33	14.27	15.7	0.0
100	QPSK	135	138	14.11	14.19	14.03	15.7	0.0
100	QPSK	270	0	14.27	14.28	14.10		
100	16QAM	1	1	14.18	14.28	14.32	15.7	0.0
100	16QAM	1	1	14.20	14.25	14.19	15.7	0.0
100	256QAM	1	1	14.16	14.21	14.17	15.7	0.0
Channel								
Frequency (MHz)				64968	65000	66234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	15.7	0.0
90	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				3740.01	3840	3940.02	15.7	0.0
80	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64900	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745	3840	3945	15.7	0.0
70	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	15.7	0.0
60	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64834	65000	66368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	15.7	0.0
50	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	15.7	0.0
40	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	15.7	0.0
30	QPSK	1	1	13.98	14.08	14.12	15.7	0.0
Channel								
Frequency (MHz)				64700	65000	66468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5	15.7	0.0
20	QPSK	1	1	13.98	14.08	14.12	15.7	0.0

Par270 n77 Ant2 DSI3 Standalone PC2								
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)				3750	3840	3930		
100	PI2 BPSK	1	1	16.90	16.98	16.98		
100	PI2 BPSK	1	137	17.14	17.19	17.23	18.7	0.0
100	PI2 BPSK	1	271	16.97	17.13	16.98		
100	PI2 BPSK	135	0	17.11	17.27	17.16	18.7	0.0
100	PI2 BPSK	135	69	17.08	17.18	17.17	18.7	0.0
100	PI2 BPSK	135	138	17.13	17.28	17.19	18.7	0.0
100	PI2 BPSK	270	0	17.02	17.10	17.04		
100	QPSK	1	1	17.22	17.31	17.21		
100	QPSK	1	137	17.04	17.28	17.12	18.7	0.0
100	QPSK	1	271	17.15	17.15	17.10		
100	QPSK	135	0	17.18	17.19	17.11	18.7	0.0
100	QPSK	135	69	17.22	17.27	17.10	18.7	0.0
100	QPSK	135	138	17.04	17.13	16.97	18.7	0.0
100	QPSK	270	0	17.06	17.16	17.01		
100	16QAM	1	1	17.10	17.19	17.26	18.7	0.0
100	16QAM	1	1	17.09	17.10	17.14	18.7	0.0
100	256QAM	1	1	16.94	17.20	17.08	18.7	0.0
Channel								
Frequency (MHz)				64868	65000	66234	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01	18.7	0.0
90	QPSK	1	1	17.06	17.18	17.02	18.7	0.0
Channel								
Frequency (MHz)				64834	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02	18.7	0.0
80	QPSK	1	1	17.04	17.20	17.13	18.7	0.0
Channel								
Frequency (MHz)				64800	65000	66300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745	3840	3945	18.7	0.0
70	QPSK	1	1	17.08	17.28	17.10	18.7	0.0
Channel								
Frequency (MHz)				64868	65000	66334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01	18.7	0.0
60	QPSK	1	1	17.03	17.14	17.06	18.7	0.0
Channel								
Frequency (MHz)				64834	65000	66368	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02	18.7	0.0
50	QPSK	1	1	17.06	17.15	17.06	18.7	0.0
Channel								
Frequency (MHz)				64800	65000	66400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	18.7	0.0
40	QPSK	1	1	17.03	17.03	17.04	18.7	0.0
Channel								
Frequency (MHz)				64768	65000	66434	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01	18.7	0.0
30	QPSK	1	1	17.12	17.17	17.04	18.7	0.0
Channel								
Frequency (MHz)				64700	65000	66468	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	18.7	0.0
20	QPSK	1	1	16.98	17.12	17.04	18.7	0.0

Par270 n77 Ant2 DSI3 Standalone PC3								
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)				3500.01				
100	PI2 BPSK	1	1			14.04		
100	PI2 BPSK	1	137			13.92	15.7	0.0
100	PI2 BPSK	1	271			13.93		
100	PI2 BPSK	135	0			13.89	15.7	0.0
100	PI2 BPSK	135	69			13.89	15.7	0.0
100	PI2 BPSK	135	138			13.90	15.7	0.0
100	PI2 BPSK	270	0			13.93	15.7	0.0
100	QPSK	1	1			14.02		
100	QPSK	1	137			14.02	15.7	0.0
100	QPSK	1	271			13.99		
100	QPSK	135	0			13.96	15.7	0.0
100	QPSK	135	69			14.02	15.7	0.0
100	QPSK	135	138			13.85	15.7	0.0
100	QPSK	270	0			14.14	15.7	0.0
100	16QAM	1	1			13.91	15.7	0.0
100	16QAM	1	1			13.97	15.7	0.0
100	256QAM	1	1			14.08	15.7	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02	15.7	0.0
90	QPSK	1	1	13.52	13.90	13.53	15.7	0.0
Channel								
Frequency (MHz)				632500	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	15.7	0.0
80	QPSK	1	1	13.49	13.82	13.57	15.7	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01	15.7	0.0
70	QPSK	1	1	13.59	13.79	13.53	15.7	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02	15.7	0.0
60	QPSK	1	1	13.54	13.81	13.52	15.7	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525	15.7	0.0
50	QPSK	1	1	13.58	13.90	13.58	15.7	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	15.7	0.0
40	QPSK	1	1	13.59	13.84	13.54	15.7	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02	15.7	0.0
30	QPSK	1	1	13.54	13.88	13.55	15.7	0.0
Channel								
Frequency (MHz)				630500	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	15.7	0.0
20	QPSK	1	1	13.57	13.82	13.59	15.7	0.0



Par27Q n77 Ant2 DSI3 Standalone PC2									
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				633000	633334	633668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
100	PI2 BPSK	1	1	17.37			18.7	0.0	
100	PI2 BPSK	1	137	17.28					
100	PI2 BPSK	1	271	17.29					
100	PI2 BPSK	135	0	17.23			15.2	3.5	
100	PI2 BPSK	135	69	17.24			18.7	0.0	
100	PI2 BPSK	135	138	17.22			15.2	3.5	
100	PI2 BPSK	270	0	17.27			18.7	0.0	
100	QPSK	1	1	17.36			18.7	0.0	
100	QPSK	1	137	17.32					
100	QPSK	1	271	17.31					
100	QPSK	135	0	17.30			15.2	3.5	
100	QPSK	135	69	17.46			18.7	0.0	
100	QPSK	135	138	17.15			15.2	3.5	
100	QPSK	270	0	17.39			18.7	0.0	
100	16QAM	1	1	17.26			18.7	0.0	
100	64QAM	1	1	17.33			18.7	0.0	
100	256QAM	1	1	17.37			18.7	0.0	
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
90	QPSK	1	1	16.63	16.77	16.67	18.7	0.0	
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	16.48	16.83	16.58	18.7	0.0	
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3468.01	3500.01	3535.01			
70	QPSK	1	1	16.54	16.88	16.54	18.7	0.0	
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.62	16.82	16.63	18.7	0.0	
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	16.54	16.84	16.61	18.7	0.0	
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	16.52	16.89	16.58	18.7	0.0	
Channel				631000	633334	635668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	16.57	16.81	16.53	18.7	0.0	
Channel				630668	633334	636000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	16.58	16.85	16.54	18.7	0.0	

Part270 n78 Ant2 DSI3 Standalone PC3									
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	PI2 BPSK	1	1	13.94					
100	PI2 BPSK	1	137	13.96					
100	PI2 BPSK	1	271	13.97			15.7	0.0	
100	PI2 BPSK	135	0	14.04			15.7	0.0	
100	PI2 BPSK	135	69	13.90			15.7	0.0	
100	PI2 BPSK	135	138	14.00			15.7	0.0	
100	PI2 BPSK	270	0	14.06			15.7	0.0	
100	QPSK	1	1	13.93			15.7	0.0	
100	QPSK	1	137	13.93					
100	QPSK	1	271	13.88					
100	QPSK	135	0	13.99			15.7	0.0	
100	QPSK	135	69	14.04			15.7	0.0	
100	QPSK	135	138	13.87			15.7	0.0	
100	QPSK	270	0	13.93			15.7	0.0	
100	16QAM	1	1	14.03			15.7	0.0	
100	64QAM	1	1	13.91			15.7	0.0	
100	256QAM	1	1	13.96			15.7	0.0	
Channel				649668	650000	650334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	13.92	13.97	13.82	15.7	0.0	
Channel				649334	650000	650668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	13.93	13.86	13.85	15.7	0.0	
Channel				649000	650000	651000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	13.87	13.84	13.84	15.7	0.0	
Channel				648668	650000	651334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	13.90	14.03	13.83	15.7	0.0	
Channel				648334	650000	651668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	13.89	14.05	13.82	15.7	0.0	
Channel				648000	650000	652000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	13.90	13.99	13.82	15.7	0.0	
Channel				647668	650000	652334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	13.88	14.06	13.77	15.7	0.0	
Channel				647334	650000	652668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3797.5			
20	QPSK	1	1	13.85	14.05	13.87	15.7	0.0	

Part270 n78 Ant2 DSI3 Standalone PC2									
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	PI2 BPSK	1	1	17.11					
100	PI2 BPSK	1	137	17.21					
100	PI2 BPSK	1	271	17.19			18.7	0.0	
100	PI2 BPSK	135	0	17.11			18.7	0.0	
100	PI2 BPSK	135	69	17.15			18.7	0.0	
100	PI2 BPSK	135	138	17.19			18.7	0.0	
100	PI2 BPSK	270	0	17.07			18.7	0.0	
100	QPSK	1	1	17.22			18.7	0.0	
100	QPSK	1	137	17.21					
100	QPSK	1	271	17.14					
100	QPSK	135	0	17.19			18.7	0.0	
100	QPSK	135	69	17.21			18.7	0.0	
100	QPSK	135	138	17.13			18.7	0.0	
100	QPSK	270	0	17.20			18.7	0.0	
100	16QAM	1	1	17.15			18.7	0.0	
100	64QAM	1	1	17.13			18.7	0.0	
100	256QAM	1	1	17.20			18.7	0.0	
Channel				649668	650000	650334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	16.64	16.97	16.88	18.7	0.0	
Channel				649334	650000	650668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	16.77	16.97	16.79	18.7	0.0	
Channel				649000	650000	651000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	16.75	16.91	16.86	18.7	0.0	
Channel				648668	650000	651334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	16.75	16.90	16.81	18.7	0.0	
Channel				648334	650000	651668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	16.85	17.00	16.89	18.7	0.0	
Channel				648000	650000	652000	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3785			
40	QPSK	1	1	16.82	17.00	16.81	18.7	0.0	
Channel				647668	650000	652334	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	16.73	17.02	16.80	18.7	0.0	
Channel				647334	650000	652668	Time-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	16.82	17.02	16.81	18.7	0.0	



Par27Q n78 Ant2 DSI3 Standalone PC3										
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	PI2 BPSK	1	1		13.49					
100	PI2 BPSK	1	137		13.29		15.7	0.0		
100	PI2 BPSK	1	271		13.31					
100	PI2 BPSK	135	0		13.32					
100	PI2 BPSK	135	69		13.24		15.7	0.0		
100	PI2 BPSK	135	138		13.25					
100	PI2 BPSK	270	0		13.28		15.7	0.0		
100	QPSK	1	1		13.65					
100	QPSK	1	137		13.44		15.7	0.0		
100	QPSK	1	271		13.40					
100	QPSK	135	0		13.38					
100	QPSK	135	69		13.46		15.7	0.0		
100	QPSK	135	138		13.28					
100	QPSK	270	0		13.50		15.7	0.0		
100	16QAM	1	1		13.32		15.7	0.0		
100	64QAM	1	1		13.38		15.7	0.0		
100	256QAM	1	1		13.48		15.7	0.0		
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485	3500.01	3505.02				
90	QPSK	1	1	13.38	13.43	13.32	15.7	0.0		
Channel				633668	633334	633000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	13.30	13.35	13.40	15.7	0.0		
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3484.01	3500.01	3516.01				
70	QPSK	1	1	13.33	13.48	13.44	15.7	0.0		
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	13.28	13.48	13.32	15.7	0.0		
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	13.28	13.43	13.44	15.7	0.0		
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3533.01				
40	QPSK	1	1	13.29	13.47	13.39	15.7	0.0		
Channel				631000	633334	635668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	13.38	13.37	13.37	15.7	0.0		
Channel				630668	633334	636000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	13.35	13.47	13.39	15.7	0.0		

Par27Q n78 Ant2 DSI3 Standalone PC2										
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	PI2 BPSK	1	1		16.82					
100	PI2 BPSK	1	137		16.50		18.7	0.0		
100	PI2 BPSK	1	271		16.46					
100	PI2 BPSK	135	0		16.44		15.2	3.5		
100	PI2 BPSK	135	69		16.42		18.7	0.0		
100	PI2 BPSK	135	138		16.43		15.2	3.5		
100	PI2 BPSK	270	0		16.50		18.7	0.0		
100	QPSK	1	1		16.83					
100	QPSK	1	137		16.82		18.7	0.0		
100	QPSK	1	271		16.55					
100	QPSK	135	0		16.51		15.2	3.5		
100	QPSK	135	69		16.61		18.7	0.0		
100	QPSK	135	138		16.41		15.2	3.5		
100	QPSK	270	0		16.82		18.7	0.0		
100	16QAM	1	1		16.50		18.7	0.0		
100	64QAM	1	1		16.53		18.7	0.0		
100	256QAM	1	1		16.84		18.7	0.0		
Channel				633000	633334	633668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3485	3500.01	3505.02				
90	QPSK	1	1	16.89	16.41	16.44	18.7	0.0		
Channel				633668	633334	633000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	16.32	16.41	16.41	18.7	0.0		
Channel				632334	633334	634334	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3484.01	3500.01	3516.01				
70	QPSK	1	1	16.29	16.40	16.44	18.7	0.0		
Channel				632000	633334	634668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	16.38	16.48	16.36	18.7	0.0		
Channel				631668	633334	635000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	16.33	16.37	16.36	18.7	0.0		
Channel				631334	633334	635334	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3470.01	3500.01	3533.01				
40	QPSK	1	1	16.35	16.38	16.32	18.7	0.0		
Channel				631000	633334	635668	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	16.40	16.38	16.38	18.7	0.0		
Channel				630668	633334	636000	Time-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	16.28	16.42	16.36	18.7	0.0		



Par270 n77 Ant2 DSI3 Simultaneous PC3

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	650000	650000		
100	PI2 BPSK	1	1	13.00	13.09	12.99		
100	PI2 BPSK	1	137	13.22	13.35	13.27	14.4	0.0
100	PI2 BPSK	1	271	13.18	13.31	13.15		
100	PI2 BPSK	135	0	13.22	13.32	13.22	14.4	0.0
100	PI2 BPSK	135	69	13.06	13.28	13.14	14.4	0.0
100	PI2 BPSK	135	138	13.31	13.27	13.24	14.4	0.0
100	PI2 BPSK	270	0	13.12	13.19	13.11		
100	QPSK	1	1	13.21	13.35	13.30		
100	QPSK	1	137	13.25	13.31	13.24	14.4	0.0
100	QPSK	1	271	13.23	13.29	13.22		
100	QPSK	135	0	13.35	13.26	13.24	14.4	0.0
100	QPSK	135	69	13.30	13.37	13.14	14.4	0.0
100	QPSK	135	138	13.05	13.13	13.09	14.4	0.0
100	QPSK	270	0	13.11	13.28	13.10		
100	16QAM	1	1	13.11	13.18	13.25	14.4	0.0
100	64QAM	1	1	13.24	13.30	13.20	14.4	0.0
100	256QAM	1	1	13.10	13.23	13.07	14.4	0.0
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	12.98	12.14	12.06	14.4	0.0
Channel				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	12.98	12.12	12.97	14.4	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	12.97	12.09	12.99	14.4	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	12.03	12.03	12.59	14.4	0.0
Channel				648334	650000	653500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	12.98	12.11	12.05	14.4	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	12.03	12.14	12.07	14.4	0.0
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	12.03	12.02	12.04	14.4	0.0
Channel				647334	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710	3840	3970		
20	QPSK	1	1	12.99	12.11	12.03	14.4	0.0

Par270 n77 Ant2 DSI3 Simultaneous PC2

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	650000	650000		
100	PI2 BPSK	1	1	16.11	16.16	16.12		
100	PI2 BPSK	1	137	16.36	16.44	16.37	17.4	0.0
100	PI2 BPSK	1	271	16.26	16.36	16.25		
100	PI2 BPSK	135	0	16.30	16.37	16.30	17.4	0.0
100	PI2 BPSK	135	69	16.20	16.32	16.25	17.4	0.0
100	PI2 BPSK	135	138	16.34	16.40	16.29	17.4	0.0
100	PI2 BPSK	270	0	16.22	16.33	16.22		
100	QPSK	1	1	16.33	16.47	16.38		
100	QPSK	1	137	16.30	16.45	16.30	17.4	0.0
100	QPSK	1	271	16.33	16.33	16.34		
100	QPSK	135	0	16.39	16.38	16.29	17.4	0.0
100	QPSK	135	69	16.33	16.40	16.31	17.4	0.0
100	QPSK	135	138	16.20	16.29	16.17	17.4	0.0
100	QPSK	270	0	16.27	16.33	16.26		
100	16QAM	1	1	16.28	16.32	16.37	17.4	0.0
100	64QAM	1	1	16.36	16.37	16.37	17.4	0.0
100	256QAM	1	1	16.18	16.36	16.20	17.4	0.0
Channel				649688	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	16.22	16.12	16.23	17.4	0.0
Channel				649334	650000	652334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	16.16	16.16	16.19	17.4	0.0
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	16.22	16.15	16.16	17.4	0.0
Channel				648688	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	16.19	16.11	16.20	17.4	0.0
Channel				648334	650000	653500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	16.18	16.19	16.19	17.4	0.0
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	16.19	16.18	16.22	17.4	0.0
Channel				647688	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	16.21	16.24	16.16	17.4	0.0
Channel				647334	650000	654500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	16.24	16.11	16.25	17.4	0.0

Par27Q n77 Ant2 DSI3 Simultaneous PC3

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)				630000	633334	635000		
100	PI2 BPSK	1	1				13.26	
100	PI2 BPSK	1	137				13.18	
100	PI2 BPSK	1	271				13.01	
100	PI2 BPSK	135	0				13.03	
100	PI2 BPSK	135	69				13.11	14.4
100	PI2 BPSK	135	138				12.97	14.4
100	PI2 BPSK	270	0				13.11	14.4
100	QPSK	1	1				13.62	
100	QPSK	1	137				13.24	14.4
100	QPSK	1	271				13.10	
100	QPSK	135	0				13.03	
100	QPSK	135	69				13.19	14.4
100	QPSK	135	138				12.89	14.4
100	QPSK	270	0				13.13	14.4
100	16QAM	1	1				13.05	14.4
100	64QAM	1	1				13.09	14.4
100	256QAM	1	1				13.16	14.4
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485	3500.01	3505.02		
90	QPSK	1	1	12.96	12.02	12.11	14.4	0.0
Channel				632668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1592.01	1600.02	1608		
80	QPSK	1	1	12.88	12.01	12.09	14.4	0.0
Channel				632335	633335	634335	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1588.02	1600.02	1612.02		
70	QPSK	1	1	12.92	12.03	12.05	14.4	0.0
Channel				632000	633335	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1584	1600.02	1616.01		
60	QPSK	1	1	12.94	12.02	12.06	14.4	0.0
Channel				631668	633335	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1580.01	1600.02	1620		
50	QPSK	1	1	12.89	12.04	12.04	14.4	0.0
Channel				631335	633335	635335	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1576.02	1600.02	1624.02		
40	QPSK	1	1	12.83	12.09	12.07	14.4	0.0
Channel				631000	633335	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1572	1600.02	1628.01		
30	QPSK	1	1	12.94	12.07	12.12	14.4	0.0
Channel				630668	633335	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1568.01	1600.02	1632		
20	QPSK	1	1	12.85	12.01	12.12	14.4	0.0