

10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %

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	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.96	32.75	32.55	33.50	23.66	23.75	23.55	24.50
GPRS 1 Tx slot	32.56	32.74	32.43	33.50	23.56	23.74	23.43	24.50
GPRS 2 Tx slots	29.76	29.98	29.66	31.00	23.78	23.98	23.66	25.00
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74
GPRS 4 Tx slots	28.63	26.78	26.37	27.00	23.63	23.78	23.37	24.00
EDGE 1 Tx slot	25.74	25.62	25.62	26.50	16.74	16.82	16.62	17.50
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	18.06	18.16	17.93	19.00
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	18.51	18.56	18.33	19.24
EDGE 4 Tx slots	20.76	20.80	20.65	22.00	17.76	17.80	17.65	18.00

GSM1900 ANT0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.88	30.02	29.80	30.50	20.88	21.02	20.80	21.50
GPRS 1 Tx slot	29.71	29.93	29.67	30.50	20.71	20.93	20.67	21.50
GPRS 2 Tx slots	26.30	26.32	26.23	27.00	20.30	20.32	20.23	21.00
GPRS 3 Tx slots	23.74	24.13	23.88	25.00	19.48	19.87	19.62	20.74
GPRS 4 Tx slots	22.22	22.51	22.36	24.00	19.22	19.51	19.36	21.00
EDGE 1 Tx slot	24.97	25.10	25.04	25.50	15.97	16.10	16.04	16.50
EDGE 2 Tx slots	23.37	23.45	23.31	24.00	17.37	17.45	17.31	18.00
EDGE 3 Tx slots	22.12	22.38	22.25	23.00	17.86	18.12	17.99	18.74
EDGE 4 Tx slots	19.88	20.12	19.78	20.50	16.88	17.12	16.78	17.50

Band	TX Channel	WCDMA 1 ANT0			Tune-up Limit (dBm)	WCDMA 2 ANT0			Tune-up Limit (dBm)	WCDMA 3 ANT0			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9652	9900	9938		1537	1638	1738		4367	4407	4468	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.94	23.06	22.78	24.00	22.71	22.93	22.88	24.00	23.07	23.16	23.02	24.00
3GPP Rel 99	RMG 12.2Kbps	23.10	23.13	22.91	24.00	22.85	23.05	22.96	24.00	23.26	23.32	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1	22.24	22.17	22.14	23.00	22.12	22.09	22.06	23.00	22.24	22.30	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2	21.98	22.18	22.20	23.00	21.85	22.05	22.07	23.00	22.11	22.22	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3	21.68	21.70	21.42	22.50	21.58	21.59	21.38	22.50	21.74	21.83	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4	21.67	21.65	21.70	22.50	21.57	21.59	21.53	22.50	21.72	21.78	21.75	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.15	22.22	22.19	23.00	22.07	22.15	22.05	23.00	22.23	22.42	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.39	22.31	22.21	23.00	22.22	22.17	22.14	23.00	22.45	22.34	22.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.57	21.82	21.87	22.50	21.54	21.76	21.62	22.50	21.77	21.91	21.83	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.81	21.68	21.38	22.50	21.67	21.64	21.33	22.50	21.88	21.87	21.63	22.50
3GPP Rel 6	HSUPA Subtest-1	22.28	22.24	22.09	23.00	22.20	22.18	21.98	23.00	22.37	22.33	22.16	23.00
3GPP Rel 6	HSUPA Subtest-2	20.27	20.30	20.05	21.00	20.15	20.20	19.93	21.00	20.33	20.43	20.13	21.00
3GPP Rel 6	HSUPA Subtest-3	21.07	21.32	21.23	22.00	20.92	21.15	21.09	22.00	21.30	21.30	21.30	22.00
3GPP Rel 6	HSUPA Subtest-4	19.93	20.13	20.01	21.00	19.73	20.02	19.93	21.00	20.02	20.16	20.04	21.00
3GPP Rel 6	HSUPA Subtest-5	21.86	22.14	22.00	23.00	21.78	22.09	21.98	23.00	21.91	22.18	22.13	23.00



Band 2 ANT0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MPR (dB)		
Channel										
20	QPSK	1	0	22.42	22.42	22.39			24	0
20	QPSK	1	49	22.38	22.37	22.31				
20	QPSK	1	99	22.33	22.32	22.26				
20	QPSK	50	24	22.33	22.30	22.30			24	0
20	QPSK	50	74	22.27	22.24	22.22				
20	16QAM	1	0	22.38	22.42	22.33			24	0
20	16QAM	1	49	22.35	22.34	22.19				
20	16QAM	50	24	21.38	21.38	21.37			23	1
20	16QAM	50	74	21.33	21.31	21.31				
20	16QAM	100	0	21.41	21.54	21.51				
20	64QAM	1	0	21.51	21.56	21.53			23	1
20	64QAM	1	49	21.45	21.55	21.38				
20	64QAM	1	99	21.37	21.44	21.38				
20	64QAM	100	24	20.44	20.53	20.50			22	2
20	64QAM	50	74	20.41	20.35	20.33				
20	256QAM	1	0	18.46	18.61	18.48			20	4
20	256QAM	1	49	18.49	18.53	18.46				
20	256QAM	50	24	18.47	18.60	18.53			20	4
20	256QAM	50	74	18.44	18.39	18.36				
20	256QAM	100	0	18.43	18.48	18.49				
Channel										
15	QPSK	1	0	22.40	22.48	22.29			24	0
15	QPSK	1	49	22.32	22.37	22.30				
15	QPSK	1	99	22.28	22.32	22.28				
15	QPSK	50	24	22.26	22.42	22.38			24	0
15	QPSK	50	74	22.23	22.37	22.35				
15	QPSK	75	0	22.18	22.37	22.18			24	0
15	16QAM	1	0	22.14	22.19	22.14			24	0
15	16QAM	1	49	22.11	22.16	22.01				
15	16QAM	50	24	21.36	21.45	21.43			23	1
15	16QAM	50	74	21.28	21.31	21.35				
15	16QAM	75	0	21.35	21.49	21.47			23	1
15	64QAM	1	0	21.48	21.61	21.49			23	1
15	64QAM	1	49	21.45	21.54	21.44				
15	64QAM	1	99	21.38	21.37	21.36				
15	64QAM	50	24	20.43	20.50	20.38			22	2
15	64QAM	50	74	20.37	20.25	20.28				
15	64QAM	75	0	20.38	20.50	20.48			20	4
15	256QAM	1	0	18.41	18.54	18.44			20	4
15	256QAM	50	24	18.38	18.42	18.40				
15	256QAM	50	74	18.41	18.42	18.40			20	4
15	256QAM	75	0	18.41	18.42	18.40				
Channel										
10	QPSK	1	0	22.43	22.47	22.35			24	0
10	QPSK	1	49	22.39	22.38	22.22				
10	QPSK	25	49	22.32	22.38	22.35				
10	QPSK	25	12	22.24	22.35	22.19			24	0
10	QPSK	50	24	22.21	22.31	22.27				
10	16QAM	1	0	22.28	22.38	22.24			24	0
10	16QAM	1	49	22.16	22.19	22.01				
10	16QAM	25	12	21.37	21.46	21.31			23	1
10	16QAM	25	49	21.32	21.36	21.36				
10	16QAM	50	24	21.29	21.26	21.27			23	1
10	64QAM	1	0	21.42	21.57	21.41			23	1
10	64QAM	1	49	21.40	21.50	21.34			23	1
10	64QAM	25	49	20.45	20.48	20.40			22	2
10	64QAM	25	12	20.32	20.37	20.33				
10	64QAM	50	24	20.36	20.45	20.43			20	4
10	256QAM	1	0	18.38	18.44	18.43			20	4
10	256QAM	25	25	18.35	18.41	18.43				
10	256QAM	1	49	18.31	18.40	18.33			20	4
10	256QAM	25	12	18.42	18.40	18.40				
10	256QAM	25	49	18.38	18.37	18.31			20	4
10	256QAM	50	24	18.43	18.39	18.44				
Channel										
5	QPSK	1	0	22.42	22.47	22.35			24	0
5	QPSK	1	12	22.38	22.30	22.19				
5	QPSK	1	24	22.38	22.41	22.38				
5	QPSK	1	36	22.34	22.37	22.34				
5	QPSK	12	7	22.31	22.28	22.28			24	0
5	QPSK	12	13	22.17	22.32	22.21				
5	16QAM	1	0	22.24	22.38	22.24			24	0
5	16QAM	1	12	22.18	22.20	22.14				
5	16QAM	12	7	21.33	21.48	21.31			23	1
5	16QAM	12	13	21.28	21.38	21.28				
5	16QAM	25	12	21.38	21.51	21.40			23	1
5	64QAM	1	0	21.46	21.68	21.46			23	1
5	64QAM	1	12	21.40	21.49	21.37				
5	64QAM	1	24	21.29	21.42	21.33			23	1
5	64QAM	12	7	21.42	21.63	21.37			23	1
5	64QAM	12	13	20.45	20.39	20.33			22	2
5	64QAM	12	19	20.32	20.26	20.22				
5	256QAM	1	0	18.43	18.54	18.48			20	4
5	256QAM	1	12	18.39	18.41	18.40				
5	256QAM	12	7	18.44	18.54	18.52			20	4
5	256QAM	12	13	18.40	18.39	18.40				
5	256QAM	12	19	18.38	18.39	18.33			20	4
5	256QAM	25	0	18.41	18.31	18.26				
5	256QAM	25	0	18.38	18.39	18.48				
Channel										
1.4	QPSK	1	0	22.41	22.41	22.22			24	0
1.4	QPSK	1	3	22.13	22.23	22.15				
1.4	QPSK	1	6	22.32	22.41	22.34				
1.4	QPSK	3	1	22.33	22.37	22.37			24	0
1.4	QPSK	3	1	22.31	22.32	22.18				
1.4	QPSK	6	7	22.28	22.27	22.19			24	0
1.4	QPSK	15	0	22.25	22.36	22.25				
1.4	16QAM	1	0	22.24	22.14	22.06			24	0
1.4	16QAM	1	14	22.17	22.17	22.04				
1.4	16QAM	1	28	21.31	21.41	21.30			23	1
1.4	16QAM	8	4	21.31	21.31	21.27				
1.4	16QAM	8	7	21.36	21.50	21.45			23	1
1.4	64QAM	1	0	21.40	21.56	21.44			23	1
1.4	64QAM	1	14	21.32	21.40	21.25				
1.4	64QAM	8	0	20.48	20.50	20.43			22	2
1.4	64QAM	8	7	20.41	20.38	20.34				
1.4	64QAM	8	7	20.38	20.30	20.22			22	2
1.4	64QAM	15	0	20.42	20.45	20.39				
1.4	256QAM	1	0	18.43	18.54	18.39			20	4
1.4	256QAM	1	8	18.41	18.48	18.40				
1.4	256QAM	1	14	18.32	18.37	18.37			20	4
1.4	256QAM	8	4	18.36	18.42	18.38				
1.4	256QAM	8	7	18.41	18.31	18.26			20	4
1.4	256QAM	15	0	18.38	18.39	18.39				
Channel										
1.4	QPSK	1	0	22.41	22.41	22.22			24	0
1.4	QPSK	1	3	22.13	22.23	22.15				
1.4	QPSK	1	6	22.32	22.41	22.34				
1.4	QPSK	3	1	22.33	22.37	22.37			24	0
1.4	QPSK	3	1	22.31	22.32	22.18				
1.4	QPSK	6	7	22.28	22.27	22.19			24	0
1.4	QPSK	15	0	22.25	22.36	22.25				
1.4	16QAM	1	0	22.24	22.14	22.06			24	0
1.4	16QAM	1	14	22.17	22.17	22.04				
1.4	16QAM	1	28	21.31	21.41	21.30			23	1
1.4	16QAM	8	4	21.31	21.31	21.27				
1.4	16QAM	8	7	21.36	21.50	21.45			23	1
1.4	64QAM	1	0	21.40	21.56	21.44			23	1
1.4	64QAM	1	14	21.32	21.40	21.25				
1.4	64QAM	8	0	20.48	20.50	20.43			22	2
1.4	64QAM	8	7	20.41	20.38	20.34				
1.4	64QAM	8	7</							



Band 12 ANTO										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power High Ch. Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.92	22.79				
10	QPSK	1	40	22.73	22.82	22.76	24	0		
10	QPSK	1	80	22.59	22.69	22.68				
10	QPSK	25	12	22.68	22.79	22.74	24	0		
10	QPSK	25	28	22.62	22.73	22.68				
10	16QAM	1	0	22.75	22.85	22.81	24	0		
10	16QAM	1	25	22.69	22.86	22.89				
10	16QAM	25	0	22.33	22.30	22.33	23.5	0.5		
10	16QAM	25	0	22.35	22.48	22.45				
10	16QAM	25	12	22.29	22.44	22.52				
10	16QAM	25	25	22.33	22.44	22.39				
10	16QAM	50	0	22.38	22.44	22.39				
10	64QAM	1	0	22.42	22.52	22.43	23.5	0.5		
10	64QAM	1	25	22.35	22.55	22.35				
10	64QAM	1	40	22.33	22.38	22.30				
10	64QAM	1	49	21.73	21.46	21.38				
10	64QAM	25	12	21.23	21.28	21.24	22.5	1.5		
10	64QAM	25	28	21.28	21.21	21.22				
10	64QAM	50	0	21.38	21.41	21.38				
10	256QAM	1	0	19.53	19.61	19.52	20.5	3.5		
10	256QAM	1	25	19.48	19.48	19.48				
10	256QAM	1	49	19.34	19.44	19.35				
10	256QAM	25	0	19.37	19.35	19.37	20.5	3.5		
10	256QAM	25	12	19.25	19.25	19.24				
10	256QAM	50	0	19.37	19.37	19.38				
Channel										
Frequency (MHz)										
8	QPSK	1	0	701.5	707.5	713.5	24	0		
8	QPSK	1	24	707.8	713.8	719.8				
8	QPSK	1	48	708.8	714.8	720.8				
8	QPSK	12	0	707.8	713.8	719.8	24	0		
8	QPSK	12	13	707.9	713.9	719.9				
8	QPSK	25	0	707.4	713.4	719.4	24	0		
8	16QAM	1	12	707.4	713.4	719.4	24	0		
8	16QAM	1	24	707.2	713.2	719.2				
8	16QAM	12	0	707.2	713.2	719.2	23.5	0.5		
8	16QAM	25	0	707.2	713.2	719.2				
8	64QAM	1	0	707.2	713.2	719.2	23.5	0.5		
8	64QAM	1	24	707.0	713.0	719.0				
8	64QAM	12	0	707.0	713.0	719.0	22.5	1.5		
8	64QAM	12	13	707.1	713.1	719.1				
8	64QAM	25	0	707.0	713.0	719.0	20.5	3.5		
8	256QAM	1	12	707.0	713.0	719.0	20.5	3.5		
8	256QAM	1	24	706.8	712.8	718.8				
8	256QAM	12	0	706.8	712.8	718.8	20.5	3.5		
8	256QAM	12	13	706.9	712.9	718.9				
8	256QAM	25	0	706.8	712.8	718.8	20.5	3.5		
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.83	22.83	22.80	24	0		
3	QPSK	1	8	22.75	22.82	22.78				
3	QPSK	1	16	22.67	22.77	22.73				
3	QPSK	8	4	22.85	22.74	22.84	24	0		
3	QPSK	8	12	22.77	22.77	22.80				
3	QPSK	16	0	22.80	22.77	22.73				
3	16QAM	1	0	22.83	22.77	22.76	24	0		
3	16QAM	1	8	22.75	22.82	22.78				
3	16QAM	1	16	22.67	22.77	22.73				
3	16QAM	8	4	22.85	22.74	22.84	23.5	0.5		
3	16QAM	8	12	22.77	22.77	22.80				
3	64QAM	1	0	22.83	22.77	22.76	23.5	0.5		
3	64QAM	1	8	22.75	22.82	22.78				
3	64QAM	1	16	22.67	22.77	22.73				
3	64QAM	8	4	21.25	21.41	21.30	22.5	1.5		
3	64QAM	8	12	21.18	21.15	21.15				
3	64QAM	16	0	21.27	21.38	21.33				
3	256QAM	1	0	19.49	19.56	19.42	20.5	3.5		
3	256QAM	1	8	19.41	19.47	19.39				
3	256QAM	1	16	19.33	19.41	19.24				
3	256QAM	8	4	19.22	19.24	19.24	20.5	3.5		
3	256QAM	8	12	19.10	19.16	19.14				
3	256QAM	16	0	19.24	19.25	19.24				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.81	22.82	22.87				
14	QPSK	1	5	22.89	22.75	22.89	24	0		
14	QPSK	1	10	22.93	22.84	22.73				
14	QPSK	3	1	22.80	22.70	22.67				
14	QPSK	3	3	22.81	22.65	22.54	24	0		
14	16QAM	1	0	22.83	22.78	22.71	24	0		
14	16QAM	1	5	22.89	22.82	22.86				
14	16QAM	1	10	22.93	22.86	22.80				
14	16QAM	3	1	22.21	22.43	22.28				
14	16QAM	3	1	22.20	22.28	22.21				
14	16QAM	3	1	22.26	22.31	22.29				
14	16QAM	6	0	22.32	22.41	22.31	23.5	0.5		
14	64QAM	1	0	22.36	22.41	22.37				
14	64QAM	1	5	22.29	22.27	22.30				
14	64QAM	1	10	22.23	22.34	22.18	23.5	0.5		
14	64QAM	3	1	22.07	22.34	22.31				
14	64QAM	3	1	22.10	22.22	22.16				
14	64QAM	3	1	22.14	22.08	22.13				
14	64QAM	6	0	21.20	21.50	21.25	22.5	1.5		
14	256QAM	1	0	19.40	19.50	19.40				
14	256QAM	1	5	19.41	19.47	19.39				
14	256QAM	1	10	19.36	19.41	19.24	20.5	3.5		
14	256QAM	3	1	19.22	19.29	19.20				
14	256QAM	3	1	19.26	19.11	19.20				
14	256QAM	6	0	19.25	19.28	19.32	20.5	3.5		

Band 13 ANTO										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power High Ch. Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.30	22.30	22.30				
10	QPSK	1	49	22.38	22.33	22.33	24	0		
10	QPSK	1	98	22.46	22.31	22.31				
10	QPSK	25	12	22.44	22.44	22.44	24	0		
10	QPSK	25	28	22.31	22.31	22.31				
10	16QAM	1	0	22.46	22.46	22.46				
10	16QAM	1	25	22.37	22.37	22.37				
10	16QAM	1	49	22.30	22.30	22.30				
10	16QAM	25	0	22.07	22.07	22.07	23.5	0.5		
10	16QAM	25	12	21.98	21.98	21.98				
10	16QAM	25	25	21.90	21.90	21.90				
10	16QAM	50	0	22.01	22.01	22.01				
10	64QAM	1	0	21.97	21.97	21.97	23.5	0.5		
10	64QAM	1	25	22.01	21.98	21.98				
10	64QAM	1	49	21.93	21.93	21.93				
10	64QAM	25	12	20.36	20.36	20.36	22.5	1.5		
10	64QAM	25	28	20.35	20.35	20.35				
10	64QAM	50	0	21.03	21.03	21.03				
10	256QAM	1	0	19.10	19.10	19.10	20.5	3.5		
10	256QAM	1	25	18.96	18.96	18.96				
10	256QAM	1	49	18.84	18.84	18.84				
10	256QAM	25	0	19.01	19.01	19.01	20.5	3.5		
10	256QAM	25	12	18.92	18.92	18.92				
10	256QAM	25	25	18.78	18.78	18.78				
10	256QAM	50	0	18.93	18.93	18.93				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.29	22.48	22.34	24	0		
5	QPSK	1	12	22.13	22.37	22.20				
5	QPSK	1	24	22.08	22.19	22.16				
5	QPSK	12	0	22.21	22.40	22.34				
5	QPSK	12	7	22.21	22.38	22.34				
5	QPSK	12	13	22.11	22.34	22.14				
5	QPSK	25	0	22.10	22.28	22.08	24	0		
5	16QAM	1	12	22.21	22.24	22.12	24	0		
5	16QAM	1	24	22.20	22.17	22.14				
5	16QAM	12	0	21.89	21.94	21.90				
5	16QAM	12	7	21.75	21.88	21.88	23.5	0.5		
5	16QAM	12	13	22.21	22.14	22.14				
5	16QAM	25	0	21.89	21.87	21.87				
5	64QAM	1	0	21.81	22.10	21.97	23.5	0.5		
5	64QAM	1	12	21.80	21.69	21.64				
5	64QAM	1	24	21.72	21.57	21.58				
5	64QAM	12	0	20.89	20.88	20.87	22.5	1.5		
5	64QAM	12	7	20.86	20.83	20.87				
5	64QAM	12	13	20.74	20.81	20.71				
5	64QAM	25	0	20.88	20.86	20.84				
5	256QAM	1	0	18.91	18.91	18.90	20.5	3.5		
5	256QAM	1	12	18.74	18.57	18.80				
5	256QAM	1	24	18.62	18.76	18.67				
5	256QAM	12	0	18.84	18.85	18.88	20.5	3.5		
5	256QAM	12	7	18.62	18.75	18.66				
5	256QAM	12	13	18.67	18.72	18.63				



Band 26 AN70										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power	Tune-up (dB)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.40	22.46	22.48	24	0		
15	QPSK	1	37	22.42	22.52	22.48				
15	QPSK	1	74	22.38	22.50	22.38				
15	QPSK	36	0	22.40	22.54	22.48	24	0		
15	QPSK	36	36	22.35	22.43	22.34				
15	QPSK	36	36	22.41	22.47	22.39				
15	QPSK	75	0	22.35	22.45	22.40	24	0		
15	QPSK	75	0	22.41	22.55	22.43				
15	16QAM	1	37	22.42	22.46	22.41	24	0		
15	16QAM	1	74	22.37	22.39	22.38				
15	16QAM	36	0	21.94	22.03	21.90	23.5	0.5		
15	16QAM	36	36	21.85	21.97	21.87				
15	16QAM	36	36	21.79	21.86	21.81				
15	16QAM	75	0	21.80	21.94	21.88	23.5	0.5		
15	16QAM	75	0	21.86	21.96	21.91				
15	16QAM	1	37	21.53	21.68	21.63	22.5	1.5		
15	16QAM	1	74	21.79	21.86	21.79				
15	16QAM	36	0	20.93	20.97	20.93	22.5	1.5		
15	16QAM	36	36	20.80	20.80	20.81				
15	16QAM	36	36	20.75	20.81	20.78				
15	16QAM	75	0	20.63	20.69	20.60	22.5	1.5		
15	256QAM	1	0	18.60	18.67	18.60	20.5	3.5		
15	256QAM	1	37	18.84	18.90	18.83				
15	256QAM	1	74	18.82	18.88	18.80				
15	256QAM	36	0	18.89	18.98	18.88	20.5	3.5		
15	256QAM	36	36	18.83	18.74	18.88				
15	256QAM	75	0	18.80	18.87	18.79	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.57	22.39	24	0		
10	QPSK	1	37	22.55	22.61	22.39				
10	QPSK	1	74	22.51	22.58	22.32				
10	QPSK	36	0	22.38	22.43	22.39	24	0		
10	QPSK	36	36	22.31	22.31	22.31				
10	QPSK	75	0	22.17	22.26	22.23	24	0		
10	16QAM	1	37	22.31	22.33	22.27	24	0		
10	16QAM	1	74	22.27	22.26	22.21				
10	16QAM	25	0	21.84	21.99	21.84	23.5	0.5		
10	16QAM	25	12	21.75	21.77	21.82				
10	16QAM	36	0	21.79	21.86	21.77	23.5	0.5		
10	16QAM	36	36	21.70	21.74	21.68				
10	16QAM	75	0	21.68	21.74	21.64	23.5	0.5		
10	16QAM	75	0	21.70	21.74	21.68				
10	16QAM	25	0	20.82	20.89	20.80	22.5	1.5		
10	16QAM	25	12	20.75	20.77	20.80				
10	16QAM	25	25	20.62	20.75	20.72	22.5	1.5		
10	16QAM	50	0	20.80	20.84	20.83	20.5	3.5		
10	16QAM	50	25	18.96	18.99	18.96				
10	256QAM	1	25	18.88	18.76	18.78	20.5	3.5		
10	256QAM	1	69	18.74	18.77	18.76				
10	256QAM	25	0	18.74	18.84	18.70	20.5	3.5		
10	256QAM	25	12	18.78	18.75	18.81				
10	256QAM	50	0	18.85	18.78	18.83	20.5	3.5		
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.48	22.60	22.40	24	0		
5	QPSK	1	12	22.38	22.45	22.37				
5	QPSK	1	24	22.28	22.36	22.32				
5	QPSK	12	0	22.43	22.45	22.43	24	0		
5	QPSK	12	7	22.24	22.28	22.27				
5	QPSK	12	13	22.31	22.31	22.31				
5	QPSK	25	0	22.20	22.34	22.19	24	0		
5	16QAM	1	0	22.28	22.32	22.30	24	0		
5	16QAM	1	37	22.38	22.38	22.34				
5	16QAM	1	74	22.28	22.35	22.15				
5	16QAM	12	0	21.88	21.96	21.78	23.5	0.5		
5	16QAM	12	13	21.84	21.77	21.68				
5	16QAM	25	0	21.71	21.78	21.68	23.5	0.5		
5	16QAM	25	0	21.81	21.96	21.88				
5	16QAM	1	12	21.84	21.77	21.71	23.5	0.5		
5	16QAM	1	24	21.65	21.72	21.70				
5	16QAM	12	0	20.83	20.86	20.71	22.5	1.5		
5	16QAM	12	7	20.70	20.88	20.72				
5	16QAM	12	13	20.68	20.68	20.68				
5	16QAM	25	0	20.84	20.86	20.78	22.5	1.5		
5	256QAM	1	0	18.88	18.86	18.87	20.5	3.5		
5	256QAM	1	12	18.80	18.84	18.81				
5	256QAM	1	24	18.73	18.82	18.71	20.5	3.5		
5	256QAM	12	0	18.84	18.86	18.85				
5	256QAM	12	7	18.74	18.73	18.70	20.5	3.5		
5	256QAM	12	13	18.74	18.68	18.54				
5	256QAM	25	0	18.68	18.76	18.78	20.5	3.5		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.48	22.52	22.38	24	0		
1.4	QPSK	1	3	22.43	22.47	22.39				
1.4	QPSK	1	6	22.34	22.46	22.35				
1.4	QPSK	3	0	22.44	22.47	22.42	24	0		
1.4	QPSK	3	1	22.30	22.33	22.28				
1.4	QPSK	3	3	22.28	22.39	22.28	24	0		
1.4	16QAM	1	0	22.18	22.30	22.26	24	0		
1.4	16QAM	1	3	22.29	22.45	22.27				
1.4	16QAM	1	6	22.38	22.38	22.29				
1.4	16QAM	3	0	22.31	22.50	22.27	24	0		
1.4	16QAM	3	1	22.24	22.25	22.28				
1.4	16QAM	3	3	21.98	22.00	21.97	23.5	0.5		
1.4	16QAM	1	0	21.82	21.85	21.84	23.5	0.5		
1.4	16QAM	1	3	21.82	22.00	21.88				
1.4	16QAM	3	0	21.68	21.74	21.70	23.5	0.5		
1.4	16QAM	3	3	21.71	21.69	21.78				
1.4	16QAM	6	0	20.88	20.91	20.85	22.5	1.5		
1.4	16QAM	6	3	18.90	18.92	18.90				
1.4	256QAM	1	3	18.90	18.78	18.86	20.5	3.5		
1.4	256QAM	1	6	18.74	18.76	18.69				
1.4	256QAM	3	0	18.80	18.82	18.74	20.5	3.5		
1.4	256QAM	3	1	18.78	18.72	18.69				
1.4	256QAM	3	3	18.78	18.44	18.66	20.5	3.5		
1.4	256QAM	6	0	18.71	18.78	18.74	20.5	3.5		

Band 66 AN70										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power	Tune-up (dB)	MRR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.71	22.80	22.82	24	0		
20	QPSK	1	69	22.44	22.52	22.48				
20	QPSK	1	99	22.50	22.59	22.47				
20	QPSK	69	0	22.44	22.52	22.48	24	0		
20	QPSK	69	34	22.55	22.58	22.50				
20	QPSK	50	0	22.45	22.54	22.47	24	0		
20	QPSK	100	0	22.44	22.52	22.51				
20	16QAM	1	0	22.47	22.62	22.62	24	0		
20	16QAM	1	69	22.47	22.46	22.46				
20	16QAM	1	99	22.51	22.59	22.56				
20	16QAM	50	0	21.62	21.72	21.66	23	1		
20	16QAM	50	24	21.59	21.60	21.53				
20	16QAM	50	50	21.60	21.48	21.47	23	1		
20	16QAM	100	0	21.79	21.79	21.66				
20	16QAM	1	69	22.69	22.67	22.67	23	1		
20	16QAM	1	99	21.53	21.55	21.50				
20	16QAM	1	99	21.57	21.55	21.51				
20	16QAM	50	0	20.90	20.93	20.93	22	2		
20	16QAM	50	24	20.92	20.93	20.97				
20	16QAM	50	50	20.89	20.90	20.93				
20	256QAM	1	0	18.73	18.8					



Band 38 ANTO										
BW (MHz)	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	23.06	23.19	23.04	24	0		
20	QPSK	1	49	23.00	23.08	22.93				
20	QPSK	1	99	23.01	23.04	22.91				
20	QPSK	50	0	23.05	23.08	23.00				
20	QPSK	50	24	22.87	22.85	22.87	24	0		
20	QPSK	50	50	23.00	23.08	23.03				
20	QPSK	100	0	22.98	23.05	22.97				
20	16QAM	1	0	22.98	23.05	22.97				
20	16QAM	1	49	22.92	23.07	22.95	24	0		
20	16QAM	1	99	22.86	23.03	23.01				
20	16QAM	50	0	22.93	23.06	22.95				
20	16QAM	50	24	22.98	23.12	23.05	24	0		
20	16QAM	50	50	23.01	23.08	23.03				
20	16QAM	100	0	22.92	23.06	22.97				
20	64QAM	1	0	22.97	23.15	22.99				
20	64QAM	1	49	22.94	23.05	22.99	24	0		
20	64QAM	1	99	23.06	23.13	22.98				
20	64QAM	50	0	22.87	23.00	22.97				
20	64QAM	50	24	23.05	23.11	23.07	24	0		
20	64QAM	50	50	23.06	23.09	22.94				
20	64QAM	100	0	22.97	23.07	23.02				
20	256QAM	1	0	20.93	20.99	20.84				
20	256QAM	1	49	20.84	20.98	20.85	22	2		
20	256QAM	1	99	21.01	21.06	20.91				
20	256QAM	50	0	20.97	21.08	20.94				
20	256QAM	50	24	21.06	21.11	20.97	22	2		
20	256QAM	50	50	20.95	21.05	20.91				
20	256QAM	100	0	20.96	21.07	20.92				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.91	23.08	22.89	24	0		
15	QPSK	1	37	22.85	23.04	22.76				
15	QPSK	1	74	22.90	22.86	22.76				
15	QPSK	36	0	22.86	22.89	22.85				
15	QPSK	36	20	22.78	22.90	22.72	24	0		
15	QPSK	36	39	22.85	23.01	22.83				
15	QPSK	75	0	22.93	23.01	22.88				
15	16QAM	1	0	22.81	22.85	22.87				
15	16QAM	1	37	22.88	22.98	22.90	24	0		
15	16QAM	1	74	22.72	22.87	22.98				
15	16QAM	36	0	22.86	22.89	22.78				
15	16QAM	36	20	22.94	22.95	23.02	24	0		
15	16QAM	36	39	22.92	23.04	22.97				
15	16QAM	75	0	22.79	23.01	22.89				
15	64QAM	1	0	22.81	23.01	22.85				
15	64QAM	1	37	22.83	23.01	22.89	24	0		
15	64QAM	1	74	22.93	23.01	22.94				
15	64QAM	36	0	22.89	23.02	22.83				
15	64QAM	36	20	22.99	23.02	23.05	24	0		
15	64QAM	36	39	22.98	23.04	22.85				
15	64QAM	75	0	22.82	22.99	22.98				
15	256QAM	1	0	20.77	20.94	20.68				
15	256QAM	1	37	20.75	20.82	20.76	22	2		
15	256QAM	1	74	20.86	20.91	20.77				
15	256QAM	36	0	20.91	20.84	20.83				
15	256QAM	36	20	20.99	21.08	20.81	22	2		
15	256QAM	36	39	20.86	20.88	20.77				
15	256QAM	75	0	20.82	21.03	20.86				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.99	23.02	22.89	24	0		
10	QPSK	1	25	22.88	23.03	22.98				
10	QPSK	1	49	22.96	22.93	22.84				
10	QPSK	25	0	22.95	22.97	22.84				
10	QPSK	25	12	22.81	22.77	22.82	24	0		
10	QPSK	25	25	22.92	22.95	22.84				
10	QPSK	50	0	22.87	22.94	22.90				
10	16QAM	1	0	22.91	22.88	22.86				
10	16QAM	1	25	22.76	22.81	22.89	24	0		
10	16QAM	1	49	22.79	22.99	22.95				
10	16QAM	25	0	22.90	22.99	22.78				
10	16QAM	25	12	22.86	23.08	22.98	24	0		
10	16QAM	25	25	22.94	22.91	22.92				
10	16QAM	50	0	22.75	22.89	22.91				
10	64QAM	1	0	22.80	23.04	22.91				
10	64QAM	1	25	22.79	22.81	22.86	24	0		
10	64QAM	1	49	22.93	23.02	22.89				
10	64QAM	25	0	22.72	22.97	22.94				
10	64QAM	25	12	22.88	23.00	22.95	24	0		
10	64QAM	25	25	22.89	23.07	22.77				
10	64QAM	50	0	22.79	22.95	22.94				
10	256QAM	1	0	20.80	20.87	20.71				
10	256QAM	1	25	20.72	20.84	20.72	22	2		
10	256QAM	1	49	20.97	20.87	20.75				
10	256QAM	25	0	20.93	21.04	20.90				
10	256QAM	25	12	20.95	20.98	20.85	22	2		
10	256QAM	25	25	20.82	20.88	20.86				
10	256QAM	50	0	20.82	21.00	20.82				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.05	23.15	22.94	24	0		
5	QPSK	1	12	22.87	22.96	22.80				
5	QPSK	1	24	22.85	22.92	22.83				
5	QPSK	12	0	22.96	23.03	22.84				
5	QPSK	12	7	22.77	22.79	22.78	24	0		
5	QPSK	12	13	22.88	22.89	22.86				
5	QPSK	25	0	22.96	22.96	22.87				
5	16QAM	1	0	22.92	22.89	22.82				
5	16QAM	1	12	22.75	23.05	22.88	24	0		
5	16QAM	1	24	22.76	22.92	22.86				
5	16QAM	12	0	22.80	22.91	22.81				
5	16QAM	12	7	22.86	23.02	23.01	24	0		
5	16QAM	12	13	22.83	22.92	22.89				
5	16QAM	25	0	22.74	23.00	22.84				
5	64QAM	1	0	22.94	23.10	22.84				
5	64QAM	1	12	22.91	22.93	22.90	24	0		
5	64QAM	1	24	22.91	23.06	22.82				
5	64QAM	12	0	22.70	22.98	22.88				
5	64QAM	12	7	22.97	22.96	23.04	24	0		
5	64QAM	12	13	22.94	22.94	22.76				
5	64QAM	25	0	22.81	22.89	22.91				
5	256QAM	1	0	20.71	20.85	20.68				
5	256QAM	1	12	20.74	20.86	20.74	22	2		
5	256QAM	1	24	20.86	21.02	20.85				
5	256QAM	12	0	20.85	21.03	20.88				
5	256QAM	12	7	20.97	21.01	20.94	22	2		
5	256QAM	12	13	20.86	21.01	20.78				
5	256QAM	25	0	20.82	20.91	20.75				

Band 38 HPUE ANTO										
BW (MHz)	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	25.45	25.62	25.55	27	0		
20	QPSK	1	49	25.45	25.56	25.46				
20	QPSK	1	99	25.40	25.51	25.38				
20	QPSK	50	0	25.45	25.60	25.49				
20	QPSK	50	24	25.49	25.53	25.43	27	0		
20	QPSK	50	50	25.51	25.55	25.40				
20	QPSK	100	0	25.54	25.59	25.57				
20	16QAM	1	0	25.55	25.58</					



Band 41 ANTO										
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				39780	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.91	23.04	23.20	22.98	22.79	24	0
20	QPSK	1	49	22.90	22.95	23.08	22.96	22.77		
20	QPSK	1	99	22.92	22.90	23.07	22.96	22.85		
20	QPSK	50	0	23.09	23.01	23.17	23.13	23.00		
20	QPSK	50	24	23.07	23.10	23.13	23.04	22.88	24	0
20	QPSK	50	90	23.07	23.08	23.12	23.08	22.99		
20	QPSK	100	0	23.11	23.02	23.16	23.13	22.98		
20	16QAM	1	0	23.05	22.99	23.12	22.94	22.88		
20	16QAM	1	49	22.90	22.94	23.07	23.04	22.88	24	0
20	16QAM	1	99	23.07	22.96	23.11	22.95	22.81		
20	16QAM	50	0	23.01	23.03	23.14	23.05	22.91		
20	16QAM	50	24	23.11	23.11	23.17	23.10	22.98	24	0
20	16QAM	50	90	23.03	23.05	23.09	23.04	22.78		
20	16QAM	100	0	22.93	23.00	23.11	23.00	22.78		
20	64QAM	1	0	22.97	22.89	23.06	22.98	22.78		
20	64QAM	1	49	23.14	23.01	23.17	23.13	22.84	24	0
20	64QAM	1	99	22.96	23.06	23.12	23.06	22.82		
20	64QAM	50	0	23.10	23.10	23.15	23.11	22.96		
20	64QAM	50	24	22.83	22.96	23.02	22.93	22.75	24	0
20	64QAM	50	90	22.98	22.99	23.10	23.00	22.80		
20	64QAM	100	0	23.15	23.11	23.18	23.16	22.91		
20	256QAM	1	0	21.05	21.05	21.16	20.99	20.91		
20	256QAM	1	49	21.05	21.05	21.12	21.02	20.88	22	2
20	256QAM	1	99	21.02	21.02	21.05	20.90	20.87		
20	256QAM	50	0	20.96	20.97	21.10	20.94	20.86		
20	256QAM	50	24	20.89	20.99	21.03	20.91	20.78	22	2
20	256QAM	50	90	21.14	21.06	21.14	21.11	20.91		
20	256QAM	100	0	21.14	21.12	21.19	21.16	20.99		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.85	22.93	23.08	22.88	22.73	24.00	0
15	QPSK	1	37	22.73	22.83	23.03	22.82	22.65		
15	QPSK	1	74	22.77	22.83	22.98	22.89	22.72		
15	QPSK	36	0	22.86	22.96	23.07	22.94	22.87		
15	QPSK	36	20	22.84	22.98	22.99	22.92	22.77	24	0
15	QPSK	36	39	23.02	22.91	23.03	22.98	22.87		
15	QPSK	75	0	23.01	22.88	23.03	22.95	22.94		
15	16QAM	1	0	22.96	22.95	23.05	22.91	22.77		
15	16QAM	1	37	22.77	22.76	22.94	22.87	22.75	24	0
15	16QAM	1	74	22.90	22.83	22.98	22.88	22.74		
15	16QAM	36	0	22.85	22.96	23.05	22.90	22.80		
15	16QAM	36	20	22.95	23.08	23.11	23.00	22.90	24	0
15	16QAM	36	39	22.94	23.02	22.96	22.95	22.83		
15	16QAM	75	0	22.91	22.97	22.94	22.91	22.72		
15	64QAM	1	0	22.88	22.77	23.00	22.84	22.70		
15	64QAM	1	37	23.03	22.85	23.14	23.10	22.80	24	0
15	64QAM	1	74	22.84	23.03	22.98	22.92	22.76		
15	64QAM	36	0	22.96	22.96	23.07	22.94	22.83		
15	64QAM	36	20	22.84	22.86	22.96	22.86	22.81	24	0
15	64QAM	36	39	22.90	22.93	23.06	22.86	22.72		
15	64QAM	75	0	23.02	22.99	23.01	22.99	22.81		
15	256QAM	1	0	20.88	21.02	21.01	20.88	20.76		
15	256QAM	1	37	20.97	20.96	20.96	20.87	20.75	22	2
15	256QAM	1	74	20.98	20.93	20.87	20.79	20.75		
15	256QAM	36	0	20.87	20.98	21.06	20.78	20.68		
15	256QAM	36	20	20.85	20.88	21.00	20.75	20.74	22	2
15	256QAM	36	39	20.98	20.90	20.97	20.93	20.78		
15	256QAM	75	0	21.03	20.97	21.04	20.98	20.85		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.81	23.02	23.06	22.83	22.64	24.00	0
10	QPSK	1	25	22.80	22.78	22.92	22.85	22.75		
10	QPSK	1	49	22.75	22.78	22.92	22.83	22.68		
10	QPSK	25	0	22.95	22.83	23.01	23.01	22.87		
10	QPSK	25	12	22.94	23.04	22.95	22.93	22.74	24	0
10	QPSK	25	25	23.04	22.98	23.07	23.04	22.71		
10	QPSK	50	0	23.04	22.89	23.05	22.98	22.83		
10	16QAM	1	0	22.99	22.87	22.95	22.83	22.83		
10	16QAM	1	25	22.82	22.79	23.04	22.79	22.71	24	0
10	16QAM	1	49	23.02	22.82	22.98	22.92	22.69		
10	16QAM	25	0	22.90	22.94	22.99	22.91	22.88		
10	16QAM	25	12	23.01	22.96	23.05	23.04	22.85	24	0
10	16QAM	25	25	22.86	22.95	23.00	22.95	22.83		
10	16QAM	50	0	22.90	22.96	23.03	22.92	22.72		
10	64QAM	1	0	22.93	22.76	22.98	22.90	22.72		
10	64QAM	1	25	23.00	22.96	23.13	23.10	22.71	24	0
10	64QAM	1	49	22.85	22.91	23.02	22.95	22.72		
10	64QAM	25	0	22.98	23.04	22.97	22.99	22.92		
10	64QAM	25	12	22.87	22.79	22.98	22.86	22.68	24	0
10	64QAM	25	25	22.88	22.93	22.97	22.92	22.70		
10	64QAM	50	0	23.11	23.06	23.12	23.00	22.87		
10	256QAM	1	0	20.92	20.99	20.98	20.82	20.84		
10	256QAM	1	25	21.00	20.88	20.95	20.87	20.71	22	2
10	256QAM	1	49	20.89	20.87	20.93	20.72	20.76		
10	256QAM	25	0	20.80	20.84	20.97	20.88	20.72		
10	256QAM	25	12	20.73	20.85	20.89	20.89	20.63	22	2
10	256QAM	25	25	20.98	21.03	20.98	20.98	20.76		
10	256QAM	50	0	21.02	21.02	21.03	21.07	20.85		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2543.3	2593	2638.0	2683.5		
5	QPSK	1	0	22.81	22.92	23.16	22.85	22.71	24.00	0
5	QPSK	1	12	22.85	22.82	22.94	22.90	22.68		
5	QPSK	1	24	22.83	22.76	22.98	22.86	22.76		
5	QPSK	12	0	22.99	22.88	23.06	23.02	22.93		
5	QPSK	12	7	22.95	22.93	23.10	22.91	22.71	24	0
5	QPSK	12	13	23.00	23.05	23.08	22.96	22.83		
5	QPSK	25	0	23.00	22.96	23.06	23.11	22.94		
5	16QAM	1	0	22.87	22.84	23.01	22.85	22.72		
5	16QAM	1	12	22.80	22.77	23.00	22.96	22.78	24	0
5	16QAM	1	24	22.90	22.94	22.96	22.89	22.65		
5	16QAM	12	0	22.89	22.89	23.05	22.95	22.76		
5	16QAM	12	7	22.99	22.93	23.02	23.00	22.90	24	0
5	16QAM	12	13	22.87	22.88	22.96	22.87	22.71		
5	16QAM	25	0	22.79	22.93	23.00	22.86	22.81		
5	64QAM	1	0	22.86	22.77	23.01	22.86	22.73		
5	64QAM	1	12	22.99	22.99	23.03	23.10	22.74	24	0
5	64QAM	1	24	22.93	22.98	22.99	22.92	22.70		
5	64QAM	12	0	23.05	22.99	23.08	23.08	22.85		
5	64QAM	12	7	22.82	22.89	22.94	22.89	22.62	24	0
5	64QAM	12	13	22.86	22.84	23.05	22.82	22.73		
5	64QAM	25	0	23.12	23.00	23.05	23.03	22.84		
5	256QAM	1	0	21.02	21.03	21.14	20.90	20.81		
5	256QAM	1	12	20.96	20.88	20.96	20.92	20.80	22	2
5	256QAM	1	24	20.93	20.94	20.93	20.81	20.73		



GSM850 ANT1 TX Channel	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	848.6		824.2	836.4	848.6	
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
GSM 1 Tx slot	32.35	32.42	32.18	33.50	23.35	23.42	23.18	24.50
GPRS 1 Tx slots	32.29	32.31	32.06	33.50	23.29	23.31	23.06	24.50
GPRS 2 Tx slots	29.91	29.93	29.69	31.00	23.91	23.93	23.69	25.00
GPRS 3 Tx slots	27.67	27.64	27.52	29.00	23.41	23.38	23.26	24.74
GPRS 4 Tx slots	28.29	28.21	28.01	27.00	23.29	23.21	23.01	24.00
EDGE 1 Tx slot	25.16	25.24	25.11	26.50	16.16	16.24	16.11	17.50
EDGE 2 Tx slots	23.48	23.63	23.42	25.00	17.48	17.63	17.42	19.00
EDGE 3 Tx slots	22.28	22.42	22.25	23.50	16.00	16.16	15.99	18.24
EDGE 4 Tx slots	20.22	20.35	20.28	22.00	17.22	17.35	17.28	19.00

GSM1900 ANT1 TX Channel	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	
Frequency (MHz)	1850.2 <td>1880 <td>1909.8 <td>1850.2 <td>1880 <td>1909.8 <td>1850.2 <td>1880 </td></td></td></td></td></td></td>	1880 <td>1909.8 <td>1850.2 <td>1880 <td>1909.8 <td>1850.2 <td>1880 </td></td></td></td></td></td>	1909.8 <td>1850.2 <td>1880 <td>1909.8 <td>1850.2 <td>1880 </td></td></td></td></td>	1850.2 <td>1880 <td>1909.8 <td>1850.2 <td>1880 </td></td></td></td>	1880 <td>1909.8 <td>1850.2 <td>1880 </td></td></td>	1909.8 <td>1850.2 <td>1880 </td></td>	1850.2 <td>1880 </td>	1880
GSM 1 Tx slot	28.88	29.15	28.94	30.50	19.88	20.15	19.94	21.50
GPRS 1 Tx slots	28.75	29.07	28.86	30.50	19.75	20.07	19.86	21.50
GPRS 2 Tx slots	25.27	25.52	25.14	26.50	19.27	19.52	19.14	20.50
GPRS 3 Tx slots	23.48	23.93	23.66	25.00	19.20	19.67	19.40	20.74
GPRS 4 Tx slots	22.21	22.16	22.33	23.50	19.21	19.16	19.33	20.50
EDGE 1 Tx slot	24.46	24.70	24.32	25.00	15.46	15.70	15.32	16.00
EDGE 2 Tx slots	22.76	22.91	22.52	24.00	16.76	16.91	16.52	18.00
EDGE 3 Tx slots	21.60	21.82	21.44	23.00	17.34	17.56	17.16	18.74
EDGE 4 Tx slots	19.40	19.62	19.27	20.50	16.40	16.62	16.27	17.50

Band TX Channel	WCDMA I ANT1 Rx Channel	WCDMA I ANT1			Tune-up Limit (dBm)	WCDMA IV ANT1			Tune-up Limit (dBm)	WCDMA V ANT1			Tune-up Limit (dBm)
		826	940	958		1372	1413	1513		4192	4192	4293	
		962	990	998		1537	1638	1738		4367	4407	4468	
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	856.6	826.4	836.4	856.6	
3GPP Rel 99	AMR 12.2Kbps	22.13	22.18	22.05	23.00	22.12	22.24	22.15	23.00	22.96	23.02	22.84	24.00
3GPP Rel 99	RMC 12.2Kbps	22.19	22.26	22.10	23.00	22.21	22.36	22.23	23.00	23.08	23.15	22.92	24.00
3GPP Rel 6	HSDPA Subtest-1	21.33	21.53	21.29	22.00	21.45	21.48	21.39	22.00	22.10	22.05	21.90	23.00
3GPP Rel 6	HSDPA Subtest-2	21.08	21.27	21.28	22.00	21.22	21.34	21.36	22.00	22.01	22.08	21.88	23.00
3GPP Rel 6	HSDPA Subtest-3	20.78	20.90	20.57	21.50	20.88	21.03	20.73	21.50	21.51	21.57	21.43	22.50
3GPP Rel 6	HSDPA Subtest-4	20.81	20.79	20.80	21.50	20.88	20.91	20.85	21.50	21.50	21.62	21.39	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.34	21.41	21.25	22.00	21.40	21.49	21.43	22.00	22.01	22.16	22.00	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.76	20.89	20.76	21.50	20.93	21.11	20.96	21.50	21.50	21.64	21.45	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.94	20.89	20.56	21.50	21.02	21.01	20.74	21.50	21.51	21.59	21.38	22.50
3GPP Rel 8	HSUPA Subtest-1	21.35	21.44	21.14	22.00	21.53	21.51	21.29	22.00	22.03	22.12	22.03	23.00
3GPP Rel 6	HSUPA Subtest-2	19.33	19.40	19.14	20.00	19.43	19.48	19.21	20.00	19.94	20.14	19.94	21.00
3GPP Rel 6	HSUPA Subtest-3	20.10	20.32	20.33	21.00	20.29	20.53	20.42	21.00	21.03	21.08	21.01	22.00
3GPP Rel 6	HSUPA Subtest-4	18.99	19.21	19.12	20.00	19.10	19.31	19.29	20.00	19.99	20.10	19.99	21.00
3GPP Rel 6	HSUPA Subtest-5	20.97	21.27	21.13	22.00	21.17	21.34	21.24	22.00	22.06	22.08	21.92	23.00



Band 2 ANT1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up limit (dB)	MPR (dB)		
20	QPSK	1	0	1865	1865	1900				
20	QPSK	1	49	2144	2144	2146			23	0
20	QPSK	1	99	2424	2424	2426				
20	QPSK	1	149	2704	2704	2706				
20	QPSK	50	24	2134	2144	2130			23	0
20	QPSK	50	74	2414	2424	2410				
20	QPSK	50	124	2694	2704	2690				
20	QPSK	50	174	2974	2984	2970				
20	QPSK	50	224	3254	3264	3250				
20	QPSK	50	274	3534	3544	3530				
20	QPSK	50	324	3814	3824	3810				
20	QPSK	50	374	4094	4104	4090				
20	QPSK	50	424	4374	4384	4370				
20	QPSK	50	474	4654	4664	4650				
20	QPSK	50	524	4934	4944	4930				
20	QPSK	50	574	5214	5224	5210				
20	QPSK	50	624	5494	5504	5490				
20	QPSK	50	674	5774	5784	5770				
20	QPSK	50	724	6054	6064	6050				
20	QPSK	50	774	6334	6344	6330				
20	QPSK	50	824	6614	6624	6610				
20	QPSK	50	874	6894	6904	6890				
20	QPSK	50	924	7174	7184	7170				
20	QPSK	50	974	7454	7464	7450				
20	QPSK	50	1024	7734	7744	7730				
20	QPSK	50	1074	8014	8024	8010				
20	QPSK	50	1124	8294	8304	8290				
20	QPSK	50	1174	8574	8584	8570				
20	QPSK	50	1224	8854	8864	8850				
20	QPSK	50	1274	9134	9144	9130				
20	QPSK	50	1324	9414	9424	9410				
20	QPSK	50	1374	9694	9704	9690				
20	QPSK	50	1424	9974	9984	9970				
20	QPSK	50	1474	10254	10264	10250				
20	QPSK	50	1524	10534	10544	10530				
20	QPSK	50	1574	10814	10824	10810				
20	QPSK	50	1624	11094	11104	11090				
20	QPSK	50	1674	11374	11384	11370				
20	QPSK	50	1724	11654	11664	11650				
20	QPSK	50	1774	11934	11944	11930				
20	QPSK	50	1824	12214	12224	12210				
20	QPSK	50	1874	12494	12504	12490				
20	QPSK	50	1924	12774	12784	12770				
20	QPSK	50	1974	13054	13064	13050				
20	QPSK	50	2024	13334	13344	13330				
20	QPSK	50	2074	13614	13624	13610				
20	QPSK	50	2124	13894	13904	13890				
20	QPSK	50	2174	14174	14184	14170				
20	QPSK	50	2224	14454	14464	14450				
20	QPSK	50	2274	14734	14744	14730				
20	QPSK	50	2324	15014	15024	15010				
20	QPSK	50	2374	15294	15304	15290				
20	QPSK	50	2424	15574	15584	15570				
20	QPSK	50	2474	15854	15864	15850				
20	QPSK	50	2524	16134	16144	16130				
20	QPSK	50	2574	16414	16424	16410				
20	QPSK	50	2624	16694	16704	16690				
20	QPSK	50	2674	16974	16984	16970				
20	QPSK	50	2724	17254	17264	17250				
20	QPSK	50	2774	17534	17544	17530				
20	QPSK	50	2824	17814	17824	17810				
20	QPSK	50	2874	18094	18104	18090				
20	QPSK	50	2924	18374	18384	18370				
20	QPSK	50	2974	18654	18664	18650				
20	QPSK	50	3024	18934	18944	18930				
20	QPSK	50	3074	19214	19224	19210				
20	QPSK	50	3124	19494	19504	19490				
20	QPSK	50	3174	19774	19784	19770				
20	QPSK	50	3224	20054	20064	20050				
20	QPSK	50	3274	20334	20344	20330				
20	QPSK	50	3324	20614	20624	20610				
20	QPSK	50	3374	20894	20904	20890				
20	QPSK	50	3424	21174	21184	21170				
20	QPSK	50	3474	21454	21464	21450				
20	QPSK	50	3524	21734	21744	21730				
20	QPSK	50	3574	22014	22024	22010				
20	QPSK	50	3624	22294	22304	22290				
20	QPSK	50	3674	22574	22584	22570				
20	QPSK	50	3724	22854	22864	22850				
20	QPSK	50	3774	23134	23144	23130				
20	QPSK	50	3824	23414	23424	23410				
20	QPSK	50	3874	23694	23704	23690				
20	QPSK	50	3924	23974	23984	23970				
20	QPSK	50	3974	24254	24264	24250				
20	QPSK	50	4024	24534	24544	24530				
20	QPSK	50	4074	24814	24824	24810				
20	QPSK	50	4124	25094	25104	25090				
20	QPSK	50	4174	25374	25384	25370				
20	QPSK	50	4224	25654	25664	25650				
20	QPSK	50	4274	25934	25944	25930				
20	QPSK	50	4324	26214	26224	26210				
20	QPSK	50	4374	26494	26504	26490				
20	QPSK	50	4424	26774	26784	26770				
20	QPSK	50	4474	27054	27064	27050				
20	QPSK	50	4524	27334	27344	27330				
20	QPSK	50	4574	27614	27624	27610				
20	QPSK	50	4624	27894	27904	27890				
20	QPSK	50	4674	28174	28184	28170				
20	QPSK	50	4724	28454	28464	28450				
20	QPSK	50	4774	28734	28744	28730				
20	QPSK	50	4824	29014	29024	29010				
20	QPSK	50	4874	29294	29304	29290				
20	QPSK	50	4924	29574	29584	29570				
20	QPSK	50	4974	29854	29864	29850				
20	QPSK	50	5024	30134	30144	30130				
20	QPSK	50	5074	30414	30424	30410				
20	QPSK	50	5124	30694	30704	30690				
20	QPSK	50	5174	30974	30984	30970				
20	QPSK	50	5224	31254	31264	31250				
20	QPSK	50	5274	31534	31544	31530				
20	QPSK	50	5324	31814	31824	31810				
20	QPSK	50	5374	32094	32104	32090				
20	QPSK	50	5424	32374	32384	32370				
20	QPSK	50	5474	32654	32664	32650				
20	QPSK	50	5524	32934	32944	32930				
20	QPSK	50	5574	33214	33224	33210				
20	QPSK	50	5624	33494	33504	33490				
20	QPSK	50	5674	33774	33784	33770				
20	QPSK	50	5724	34054	34064	34050				
20	QPSK	50	5774	34334	34344	34330				
20	QPSK	50	5824	34614	34624	34610				
20	QPSK	50	5874	34894	34904	34890				
20	QPSK	50	5924	35174	35184	35170				
20	QPSK	50	5974	35454	35464	35450				
20	QPSK	50	6024	35734	35744	35730				
20	QPSK	50	6074	36014	36024	36010				
20	QPSK	50	6124	36294	36304	36290				
20	QPSK	50	6174	36574	36584	36570				
20	QPSK	50	6224	36854	36864	36850				
20	QPSK	50	6274	3713						



Band 12 ANT1										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.90	22.96	22.71				
10	QPSK	1	40	22.85	22.82	22.48			24	0
10	QPSK	25	12	22.92	22.96	22.82			24	0
10	QPSK	25	20	22.96	22.88	22.88			24	0
10	HQAM	1	0	22.83	22.74	22.60			24	0
10	HQAM	1	20	22.96	22.83	22.86			24	0
10	HQAM	25	0	22.82	22.72	22.60			23.5	0.5
10	HQAM	25	12	22.92	22.92	22.82			23.5	0.5
10	HQAM	25	20	22.96	22.90	22.82			23.5	0.5
10	HQAM	50	0	22.81	22.59	22.23			23.5	0.5
10	8QAM	1	20	22.92	22.82	22.82			23.5	0.5
10	8QAM	1	40	22.91	22.92	22.90			23.5	0.5
10	8QAM	25	0	22.92	22.98	22.94			22.5	1.5
10	8QAM	25	12	22.95	22.95	22.90			22.5	1.5
10	8QAM	25	20	22.93	22.93	22.94			22.5	1.5
10	8QAM	50	0	22.85	22.82	22.82			22.5	1.5
10	25QAM	1	0	19.20	19.24	19.13			20.5	3.5
10	25QAM	1	20	19.07	19.12	19.07			20.5	3.5
10	25QAM	1	40	19.18	19.29	19.16			20.5	3.5
10	25QAM	25	0	19.18	19.29	19.16			20.5	3.5
10	25QAM	25	12	19.32	19.25	19.23			20.5	3.5
10	25QAM	25	20	19.13	19.27	19.16			20.5	3.5
10	25QAM	50	0	19.13	19.27	19.16			20.5	3.5
Channel										
Frequency (MHz)										
8	QPSK	1	0	22.96	22.88	22.87			24	0
8	QPSK	1	24	22.93	22.87	22.87			24	0
8	QPSK	1	24	22.43	22.58	22.34			24	0
8	QPSK	12	0	22.81	22.87	22.86			24	0
8	QPSK	12	7	22.47	22.57	22.57			24	0
8	QPSK	12	13	22.49	22.83	22.51			24	0
8	QPSK	25	0	22.90	22.86	22.81			24	0
8	QPSK	25	12	22.94	22.91	22.86			24	0
8	HQAM	1	12	22.45	22.43	22.44			24	0
8	HQAM	1	24	22.92	22.86	22.89			24	0
8	HQAM	12	0	22.92	22.97	22.93			23.5	0.5
8	HQAM	12	7	22.95	22.94	22.96			23.5	0.5
8	HQAM	25	0	22.92	22.98	22.94			23.5	0.5
8	HQAM	25	12	22.92	22.98	22.94			23.5	0.5
8	8QAM	1	0	22.98	22.94	22.97			23.5	0.5
8	8QAM	1	24	22.91	22.93	22.93			23.5	0.5
8	8QAM	12	0	22.99	22.93	22.97			22.5	1.5
8	8QAM	12	13	22.91	22.98	22.90			22.5	1.5
8	8QAM	25	0	22.99	22.97	22.93			22.5	1.5
8	8QAM	25	12	22.93	22.97	22.93			22.5	1.5
8	8QAM	25	20	22.91	22.91	22.91			22.5	1.5
8	8QAM	50	0	22.93	22.97	22.93			22.5	1.5
8	25QAM	1	0	19.13	19.18	19.11			20.5	3.5
8	25QAM	1	20	19.06	19.11	19.06			20.5	3.5
8	25QAM	1	40	19.15	19.15	19.15			20.5	3.5
8	25QAM	25	0	19.04	19.14	19.11			20.5	3.5
8	25QAM	25	12	19.07	19.07	19.07			20.5	3.5
8	25QAM	25	20	19.04	19.14	19.11			20.5	3.5
8	25QAM	50	0	19.04	19.14	19.11			20.5	3.5
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.72	22.59			24	0
3	QPSK	1	8	22.50	22.66	22.52			24	0
3	QPSK	8	0	22.49	22.60	22.54			24	0
3	QPSK	8	4	22.45	22.52	22.56			24	0
3	QPSK	16	0	22.58	22.63	22.63			24	0
3	HQAM	1	0	22.49	22.68	22.56			24	0
3	HQAM	1	14	22.38	22.43	22.43			23.5	0.5
3	HQAM	8	0	22.11	22.21	22.11			23.5	0.5
3	HQAM	8	7	22.18	22.19	22.05			23.5	0.5
3	HQAM	16	0	22.14	22.21	22.19			23.5	0.5
3	8QAM	1	0	22.09	22.15	22.18			23.5	0.5
3	8QAM	1	8	22.01	22.01	22.03			23.5	0.5
3	8QAM	8	0	21.99	21.20	21.10			22.5	1.5
3	8QAM	8	4	21.13	21.13	21.08			22.5	1.5
3	8QAM	16	0	21.07	21.15	21.06			22.5	1.5
3	25QAM	1	0	19.18	19.19	19.09			20.5	3.5
3	25QAM	1	8	19.08	19.07	18.95			20.5	3.5
3	25QAM	1	14	19.38	19.36	19.35			20.5	3.5
3	25QAM	8	0	19.08	19.25	19.04			20.5	3.5
3	25QAM	8	4	19.04	19.10	19.10			20.5	3.5
3	25QAM	8	7	19.19	19.18	19.11			20.5	3.5
3	25QAM	16	0	19.06	19.23	19.09			20.5	3.5
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.47	22.72	22.59			24	0
14	QPSK	1	8	22.44	22.59	22.58			24	0
14	QPSK	1	8	22.43	22.57	22.52			24	0
14	QPSK	3	1	22.45	22.61	22.57			24	0
14	QPSK	3	3	22.49	22.62	22.48			24	0
14	HQAM	1	0	22.59	22.68	22.55			24	0
14	HQAM	1	14	22.38	22.43	22.43			23.5	0.5
14	HQAM	8	0	22.09	22.21	22.11			23.5	0.5
14	HQAM	8	7	22.18	22.19	22.05			23.5	0.5
14	HQAM	16	0	22.14	22.21	22.19			23.5	0.5
14	8QAM	1	0	22.09	22.15	22.18			23.5	0.5
14	8QAM	1	8	22.01	22.01	22.03			23.5	0.5
14	8QAM	8	0	21.99	21.20	21.10			22.5	1.5
14	8QAM	8	4	21.13	21.13	21.08			22.5	1.5
14	8QAM	16	0	21.07	21.15	21.06			22.5	1.5
14	25QAM	1	0	19.18	19.19	19.09			20.5	3.5
14	25QAM	1	8	19.08	19.07	18.95			20.5	3.5
14	25QAM	1	14	19.38	19.36	19.35			20.5	3.5
14	25QAM	8	0	19.08	19.25	19.04			20.5	3.5
14	25QAM	8	4	19.04	19.10	19.10			20.5	3.5
14	25QAM	8	7	19.19	19.11	19.12			20.5	3.5
14	25QAM	16	0	19.06	19.21	19.12			20.5	3.5

Band 13 ANT1										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.91	22.81	22.71			23.5	0
10	QPSK	1	20	22.91	22.81	22.71			23.5	0
10	QPSK	1	40	22.91	22.81	22.71			23.5	0
10	QPSK	25	12	22.91	22.81	22.71			23.5	0
10	QPSK	25	20	22.91	22.81	22.71			23.5	0
10	HQAM	1	0	22.30	22.30	22.30			23.5	0
10	HQAM	1	20	22.91	22.81	22.71			23.5	0
10	HQAM	1	40	22.91	22.81	22.71			23.5	0
10	HQAM	25	0	22.91	22.81	22.71			23.5	0
10	HQAM	25	12	22.91	22.81	22.71			23.5	0
10	HQAM	25	20	22.91	22.81	22.71			23.5	0
10	HQAM	50	0	22.91	22.81	22.71			23.5	0
10	8QAM	1	20	22.91	22.81	22.71			23	0.5
10	8QAM	1	40	22.91	22.81	22.71			23	0.5
10	8QAM	25	0	22.91	22.81	22.71			22	1.5
10	8QAM	25	12	22.91	22.81	22.71			22	1.5
10	8QAM	25	20	22.91	22.81	22.71			22	1.5
10	8QAM	50	0	22.91	22.81	22.71			22	1.5
10	25QAM	1	0	19.18	19.22	19.09			20.5	3.5
10	25QAM	1	20	19.03	19.07	19.03			20	3.5
10	25QAM	1	40	19.03	19.03	19.06			20	3.5
10	25QAM	25	0	19.12	19.26	19.19			20	3.5
10	25QAM	25	12	19.05	19.11	19.07			20	3.5
10	25QAM	25	20	19.05	19.18	19.23			20	3.5
10	25QAM	50	0	19.05	19.18	19.07			20	3.5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.38	22.61	22.46			24	0
5	QPSK	1	12	22.38	22.66	22.37			24	0
5	QPSK	1	24	22.25	22.52	22.32			24	0
5	QPSK	12	0	22.45	22.68	22.50			24	0
5	QPSK	12	7	22.44	22.53	22.44			24	0
5	QPSK	12	13	22.48	22.56	22.41			24	0
5	QPSK	25	0	22.48	22.52	22.40			24	0
5	HQAM	1	12	22.38	22.38	22.59			24	0
5	HQAM	1	24	22.94	22.94	22.97			24	0
5	HQAM	12	0	22.93	22.92	22.94			23.5	0.5
5	HQAM	12	7	22.99	22.93	22.98			23.5	0.5
5	HQAM	25	0	22.98	22.92	22.97			23.5	0.5
5	HQAM	25	12	22.93	22.95	22.99			23.5	0.5
5	HQAM	25	20	22.93	22.95	22.99			23.5	0.5
5	8QAM	1	0	22.93	22.95	22.99			23.5	0.5
5	8QAM	1	24	21.94	21.95	21.79			22.5	1.5
5	8QAM	12								



Band 26 ANT1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up (MHz)	MFR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.43	22.46	22.41			
15	QPSK	1	37	22.43	22.46	22.46	24	0	
15	QPSK	1	74	22.48	22.55	22.41			
15	QPSK	36	0	22.45	22.59	22.41			
15	QPSK	36	20	22.35	22.42	22.38			
15	QPSK	36	39	22.39	22.49	22.42	24	0	
15	QPSK	75	0	22.38	22.52	22.45			
15	HQAM	1	0	22.54	22.64	22.58			
15	HQAM	1	37	22.37	22.40	22.39	24	0	
15	HQAM	1	74	22.32	22.51	22.45			
15	HQAM	36	0	22.03	22.08	21.98			
15	HQAM	36	20	21.91	21.94	21.92	23.5	0.5	
15	HQAM	36	39	21.91	21.95	21.90			
15	HQAM	75	0	21.98	22.05	21.95			
15	HQAM	1	0	22.41	22.47	22.42			
15	HQAM	1	37	21.92	21.91	21.97	23.5	0.5	
15	HQAM	1	74	21.88	21.90	21.94			
15	HQAM	36	0	21.06	21.10	21.07			
15	HQAM	36	20	21.02	21.14	21.05	22.5	1.5	
15	HQAM	36	39	21.10	21.08	20.99			
15	HQAM	75	0	20.88	20.99	20.87			
15	SSQAM	1	0	18.91	18.99	18.96			
15	SSQAM	1	37	18.87	18.84	18.87	20.5	3.5	
15	SSQAM	1	74	18.92	18.90	18.91			
15	SSQAM	36	0	18.99	18.93	18.98			
15	SSQAM	36	20	18.99	18.99	18.99			
15	SSQAM	36	39	18.98	18.92	18.91	20.5	3.5	
15	SSQAM	75	0	18.94	18.97	18.98			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.52	22.61	22.41			
10	QPSK	1	24	22.43	22.48	22.43	24	0	
10	QPSK	1	48	22.43	22.45	22.30			
10	QPSK	25	0	22.45	22.48	22.40			
10	QPSK	25	12	22.38	22.38	22.28			
10	QPSK	25	25	22.32	22.45	22.27	24	0	
10	QPSK	50	0	22.17	22.37	22.24			
10	HQAM	1	0	22.45	22.58	22.40			
10	HQAM	1	25	22.22	22.27	22.39			
10	HQAM	1	49	22.22	22.39	22.39	24	0	
10	HQAM	25	0	21.95	21.97	21.91			
10	HQAM	25	12	21.75	21.78	21.74	23.5	0.5	
10	HQAM	25	25	21.75	21.78	21.74			
10	HQAM	50	0	21.88	21.96	21.88			
10	HQAM	1	0	21.98	22.05	21.96			
10	HQAM	1	25	21.98	21.94	21.87	23.5	0.5	
10	HQAM	25	0	20.94	21.05	20.94			
10	HQAM	25	12	20.87	21.02	20.88	22.5	1.5	
10	HQAM	25	25	20.98	21.04	20.88			
10	HQAM	50	0	20.78	20.93	20.82			
10	SSQAM	1	0	18.91	18.96	18.95			
10	SSQAM	1	25	18.79	18.75	18.83	20.5	3.5	
10	SSQAM	1	49	18.81	18.86	18.86			
10	SSQAM	25	0	18.86	18.88	18.83			
10	SSQAM	25	12	18.93	18.92	18.94	20.5	3.5	
10	SSQAM	25	25	18.71	18.83	18.84			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.52	22.52	22.39			
5	QPSK	1	12	22.28	22.44	22.41	24	0	
5	QPSK	1	24	22.44	22.45	22.32			
5	QPSK	12	0	22.39	22.52	22.49			
5	QPSK	12	7	22.29	22.31	22.25	24	0	
5	QPSK	12	14	22.27	22.33	22.23			
5	QPSK	25	0	22.26	22.42	22.25			
5	HQAM	1	0	22.46	22.49	22.55			
5	HQAM	1	12	22.34	22.33	22.23	24	0	
5	HQAM	1	24	22.20	22.38	22.40			
5	HQAM	12	0	21.96	21.98	21.89			
5	HQAM	12	7	21.96	21.98	21.73	23.5	0.5	
5	HQAM	12	14	21.79	21.75	21.83			
5	HQAM	25	0	21.86	21.86	21.86			
5	HQAM	25	0	21.94	22.07	21.93			
5	HQAM	1	12	21.88	21.71	21.81	23.5	0.5	
5	HQAM	1	24	21.85	21.81	21.81			
5	HQAM	12	0	21.00	20.99	20.98			
5	HQAM	12	7	20.95	21.10	21.01	22.5	1.5	
5	HQAM	12	14	20.92	20.95	20.85			
5	HQAM	50	0	20.74	20.89	20.89			
5	SSQAM	1	0	18.87	18.96	18.96			
5	SSQAM	1	12	18.73	18.76	18.76	20.5	3.5	
5	SSQAM	1	24	18.80	18.78	18.77			
5	SSQAM	12	0	18.89	18.92	18.87			
5	SSQAM	12	7	18.89	18.95	18.87	20.5	3.5	
5	SSQAM	12	14	18.94	18.88	18.76			
5	SSQAM	25	0	18.75	18.91	18.75			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.52	22.59	22.40			
3	QPSK	1	8	22.31	22.38	22.40	24	0	
3	QPSK	1	14	22.41	22.44	22.27			
3	QPSK	8	0	22.36	22.46	22.28			
3	QPSK	8	4	22.31	22.35	22.25	24	0	
3	QPSK	8	7	22.24	22.46	22.37			
3	QPSK	15	0	22.19	22.41	22.23			
3	HQAM	1	0	22.44	22.54	22.53			
3	HQAM	1	8	22.27	22.31	22.28	24	0	
3	HQAM	1	14	22.26	22.45	22.40			
3	HQAM	8	0	21.99	22.04	21.88			
3	HQAM	8	4	21.71	21.76	21.71	23.5	0.5	
3	HQAM	8	7	21.77	21.75	21.83			
3	HQAM	15	0	21.88	21.95	21.87			
3	HQAM	1	0	21.96	20.96	21.89			
3	HQAM	1	8	21.79	21.74	21.82	23.5	0.5	
3	HQAM	1	14	21.80	21.82	21.82			
3	HQAM	8	0	21.01	21.01	20.92			
3	HQAM	8	4	20.90	21.02	20.99	22.5	1.5	
3	HQAM	8	7	20.98	21.03	20.90			
3	HQAM	15	0	20.83	20.99	20.79			
3	SSQAM	1	0	18.96	19.04	18.93			
3	SSQAM	1	8	18.81	18.72	18.75	20.5	3.5	
3	SSQAM	1	14	18.84	18.84	18.86			
3	SSQAM	8	0	18.95	18.96	18.94			
3	SSQAM	8	4	18.96	18.99	18.92			
3	SSQAM	8	7	18.93	18.93	18.88	20.5	3.5	
3	SSQAM	15	0	18.80	18.83	18.83			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.50	22.60	22.40			
1.4	QPSK	1	2	22.26	22.39	22.21	24	0	
1.4	QPSK	1	5	22.42	22.43	22.33			
1.4	QPSK	3	0	22.46	22.56	22.44			
1.4	QPSK	3	1	22.32	22.33	22.30			
1.4	QPSK	3	3	22.25	22.37	22.36			
1.4	QPSK	6	0	22.25	22.38	22.21	24	0	
1.4	HQAM	1	0	22.69	22.50	22.49			
1.4	HQAM	1	3	22.32	22.38	22.27			
1.4	HQAM	1	5	22.21	22.37	22.25	24	0	
1.4	HQAM	3	0	22.47	22.59	22.38			
1.4	HQAM	3	1	22.22	22.22	22.28			
1.4	HQAM	3	3	22.34	22.39	22.22			
1.4	HQAM	6	0	21.88	22.01	21.91	23.5	0.5	
1.4	HQAM	1	0	21.90	22.01	21.94			
1.4	HQAM	1	5	21.85	21.84	21.87	23.5	0.5	
1.4	HQAM	3	0	21.97	21.96	21.93			
1.4	HQAM	3	1	21.97	22.04	22.00			
1.4	HQAM	3	3	22.01	21.94	21.87	22.5	1.5	
1.4	HQAM	6	0	20.75	20.92	20.79			
1.4	SSQAM	1	0	18.96	18.99	18.86			
1.4	SSQAM	1	3	18.75	18.78	18.75	20.5	3.5	
1.4	SSQAM	1	5	18.87	18.86	18.87			
1.4	SSQAM	3	0	18.88	18.96	18.88			
1.4	SSQAM	3	1	18.92	18.91	18.95	20.5	3.5	
1.4	SSQAM	3	3	18.86	18.96	18.84			



Band 38 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.82	22.01	21.87	23	0		
20	QPSK	1	49	21.81	21.97	21.81				
20	QPSK	1	99	21.74	21.90	21.81	23	0		
20	QPSK	50	0	21.84	21.94	21.80				
20	QPSK	50	24	21.87	21.92	21.74	23	0		
20	QPSK	50	50	21.86	21.91	21.79				
20	QPSK	100	0	21.87	21.93	21.79	23	0		
20	16QAM	1	0	21.70	21.95	21.69				
20	16QAM	1	49	21.76	21.84	21.78	23	0		
20	16QAM	1	99	21.68	21.79	21.68				
20	16QAM	50	0	21.80	21.77	21.68	23	0		
20	16QAM	50	24	21.76	21.89	21.70				
20	16QAM	50	50	21.77	21.84	21.68	23	0		
20	16QAM	100	0	21.78	21.88	21.70				
20	64QAM	1	0	21.65	21.97	21.76	23	0		
20	64QAM	1	49	21.76	21.93	21.67				
20	64QAM	1	99	21.58	21.86	21.77	23	0		
20	64QAM	50	0	21.80	21.82	21.63				
20	64QAM	50	24	21.76	21.82	21.70	23	0		
20	64QAM	50	50	21.77	21.80	21.72				
20	64QAM	100	0	21.72	21.81	21.65	21	2		
20	256QAM	1	0	19.90	20.12	19.97				
20	256QAM	1	49	19.92	20.10	19.90	21	2		
20	256QAM	1	99	19.92	20.01	19.94				
20	256QAM	50	0	19.87	19.99	19.93	21	2		
20	256QAM	50	24	19.92	20.03	19.88				
20	256QAM	50	50	19.89	20.02	19.83	21	2		
20	256QAM	100	0	19.95	19.96	19.91				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	21.74	21.89	21.80	23	0		
15	QPSK	1	37	21.66	21.94	21.65				
15	QPSK	1	74	21.67	21.83	21.74	23	0		
15	QPSK	36	0	21.78	21.88	21.63				
15	QPSK	36	20	21.82	21.79	21.71	23	0		
15	QPSK	36	39	21.75	21.78	21.76				
15	QPSK	75	0	21.82	21.86	21.75	23	0		
15	16QAM	1	0	21.57	21.93	21.63				
15	16QAM	1	37	21.70	21.80	21.70	23	0		
15	16QAM	1	74	21.64	21.71	21.54				
15	16QAM	36	0	21.69	21.63	21.50	23	0		
15	16QAM	36	20	21.69	21.85	21.55				
15	16QAM	36	39	21.65	21.81	21.63	23	0		
15	16QAM	75	0	21.75	21.84	21.65				
15	64QAM	1	0	21.52	21.87	21.66	23	0		
15	64QAM	1	37	21.65	21.88	21.64				
15	64QAM	1	74	21.41	21.76	21.72	23	0		
15	64QAM	36	0	21.67	21.70	21.47				
15	64QAM	36	20	21.63	21.64	21.53	23	0		
15	64QAM	36	39	21.72	21.63	21.66				
15	64QAM	75	0	21.58	21.75	21.49	21	2		
15	256QAM	1	0	19.85	19.95	19.81				
15	256QAM	1	37	19.85	20.05	19.73	21	2		
15	256QAM	1	74	19.81	19.94	19.89				
15	256QAM	36	0	19.76	19.83	19.84	21	2		
15	256QAM	36	20	19.85	19.85	19.73				
15	256QAM	36	39	19.84	19.92	19.67	21	2		
15	256QAM	75	0	19.79	19.94	19.77				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.78	21.94	21.77	23	0		
10	QPSK	1	25	21.64	21.81	21.76				
10	QPSK	1	49	21.80	21.74	21.65	23	0		
10	QPSK	25	0	21.68	21.87	21.71				
10	QPSK	25	12	21.82	21.80	21.57	23	0		
10	QPSK	25	25	21.72	21.89	21.74				
10	QPSK	50	0	21.74	21.82	21.69	23	0		
10	16QAM	1	0	21.57	21.78	21.52				
10	16QAM	1	25	21.68	21.78	21.71	23	0		
10	16QAM	1	49	21.55	21.67	21.53				
10	16QAM	25	0	21.69	21.69	21.65	23	0		
10	16QAM	25	12	21.71	21.78	21.67				
10	16QAM	25	25	21.63	21.75	21.53	23	0		
10	16QAM	50	0	21.69	21.73	21.55				
10	64QAM	1	0	21.50	21.91	21.72	23	0		
10	64QAM	1	25	21.81	21.81	21.57				
10	64QAM	1	49	21.44	21.68	21.67	23	0		
10	64QAM	25	0	21.65	21.78	21.54				
10	64QAM	25	12	21.71	21.75	21.55	23	0		
10	64QAM	25	25	21.64	21.77	21.70				
10	64QAM	50	0	21.58	21.69	21.57	21	2		
10	256QAM	1	0	19.76	19.97	19.85				
10	256QAM	1	25	19.75	19.89	19.87	21	2		
10	256QAM	1	49	19.88	19.94	19.81				
10	256QAM	25	0	19.78	19.85	19.88	21	2		
10	256QAM	25	12	19.76	19.91	19.80				
10	256QAM	25	25	19.81	20.00	19.71	21	2		
10	256QAM	50	0	19.90	19.92	19.77				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.64	21.93	21.70	23	0		
5	QPSK	1	12	21.67	21.81	21.71				
5	QPSK	1	24	21.58	21.82	21.75	23	0		
5	QPSK	12	0	21.70	21.88	21.72				
5	QPSK	12	7	21.75	21.82	21.64	23	0		
5	QPSK	12	13	21.78	21.86	21.67				
5	QPSK	25	0	21.70	21.89	21.73	23	0		
5	16QAM	1	0	21.63	21.81	21.64				
5	16QAM	1	12	21.65	21.80	21.61	23	0		
5	16QAM	1	24	21.55	21.73	21.52				
5	16QAM	12	0	21.67	21.60	21.60	23	0		
5	16QAM	12	7	21.74	21.73	21.57				
5	16QAM	12	13	21.64	21.80	21.53	23	0		
5	16QAM	25	0	21.75	21.80	21.54				
5	64QAM	1	0	21.59	21.90	21.67	23	0		
5	64QAM	1	12	21.70	21.78	21.58				
5	64QAM	1	24	21.48	21.82	21.67	23	0		
5	64QAM	12	0	21.72	21.76	21.59				
5	64QAM	12	7	21.73	21.75	21.55	23	0		
5	64QAM	12	13	21.70	21.75	21.68				
5	64QAM	25	0	21.64	21.77	21.53	21	2		
5	256QAM	1	0	19.87	20.08	19.87				
5	256QAM	1	12	19.78	19.99	19.74	21	2		
5	256QAM	1	24	19.76	19.90	19.84				
5	256QAM	12	0	19.78	19.87	19.81	21	2		
5	256QAM	12	7	19.85	19.86	19.81				
5	256QAM	12	13	19.75	19.99	19.74	21	2		
5	256QAM	25	0	19.87	19.80	19.86				

Band 38 HPUE 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.34	24.46	24.39	26	0		
20	QPSK	1	49	24.38	24.44	24.38				
20	QPSK	1	99	24.33	24.38	24.35	26	0		
20	QPSK	50	0	24.28	24.45	24.38				
20	QPSK	50	24	24.29	24.36	24.28	26	0		
20	QPSK	50	50	24.25	24.32	24.23				
20	QPSK	100	0	24.40	24.42	24.37	26	0		
20	16QAM	1	0	24.36	24.43	24.33				
20	16QAM	1	49	24.36	24.38	24.36	26	0		
20	16QAM	1	99	24.23	24.35	24.26				
20	16QAM	50	0	24.29	24.35	24.29	26	0		
20	16QAM	50	24	24.32	24.39	24.29				
20	16QAM	50	50	24.25	24.32	24.23	26	0		
20	16QAM	100	0	24.36	24.39	24.28				
20	64QAM	1	0	24.34	24.40	24.32	26	0		
20	64QAM	1	49	24.26	24.34	24.32				
20	64QAM	1	99	24.30	24.34	24.27	26	0		
20										



Band 41 ANT1												
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				39780	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	21.88	21.95	22.09	21.92	21.65	23	0		
20	QPSK	1	49	21.82	21.91	21.97	21.87	21.79				
20	QPSK	1	99	21.88	21.93	21.96	21.82	21.84				
20	QPSK	50	0	21.88	21.85	22.01	21.92	21.85				
20	QPSK	50	24	21.92	21.90	22.07	21.91	22.03	23	0		
20	QPSK	50	90	21.89	21.93	22.05	21.89	21.90				
20	QPSK	100	0	21.95	21.95	22.04	22.00	21.98				
20	16QAM	1	0	22.01	21.90	22.03	21.92	21.95				
20	16QAM	1	49	21.80	21.87	21.94	21.88	21.90	23	0		
20	16QAM	1	99	21.84	21.82	21.92	21.76	21.75				
20	16QAM	50	0	21.77	21.85	21.92	21.89	21.76				
20	16QAM	50	24	21.79	21.85	21.89	21.86	21.74	23	0		
20	16QAM	50	90	21.72	21.80	21.87	21.80	21.75				
20	16QAM	100	0	21.83	21.92	21.98	21.92	21.88				
20	64QAM	1	0	22.03	21.96	22.05	21.93	21.98				
20	64QAM	1	49	21.79	21.82	21.89	21.79	21.79	23	0		
20	64QAM	1	99	21.84	21.82	21.87	21.84	21.80				
20	64QAM	50	0	21.75	21.77	21.86	21.89	21.70				
20	64QAM	50	24	21.80	21.91	21.93	21.81	21.89	23	0		
20	64QAM	50	90	21.87	21.93	21.96	21.82	21.87				
20	64QAM	100	0	21.82	21.77	21.86	21.71	21.69				
20	256QAM	1	0	19.93	19.93	19.98	19.84	19.84				
20	256QAM	1	49	19.84	19.84	19.92	19.80	19.83	21	2		
20	256QAM	1	99	19.89	19.84	19.95	19.82	19.89				
20	256QAM	50	0	20.02	19.92	20.06	19.98	19.93				
20	256QAM	50	24	19.78	19.76	19.93	19.83	19.81	21	2		
20	256QAM	50	90	19.78	19.81	19.88	19.77	19.75				
20	256QAM	100	0	20.01	19.96	20.11	20.16	20.05				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	21.73	21.81	22.02	21.75	21.52	23.00	0		
15	QPSK	1	37	21.74	21.81	21.94	21.82	21.63				
15	QPSK	1	74	21.75	21.80	21.83	21.73	21.82				
15	QPSK	36	0	21.80	21.80	21.82	21.82	21.71	23	0		
15	QPSK	36	20	21.89	21.86	21.91	21.74	21.88				
15	QPSK	36	39	21.74	21.77	22.02	21.75	21.80				
15	QPSK	75	0	21.92	21.87	21.95	21.90	21.94				
15	16QAM	1	0	21.91	21.79	21.92	21.82	21.88				
15	16QAM	1	37	21.76	21.83	21.84	21.80	21.75	23	0		
15	16QAM	1	74	21.67	21.65	21.85	21.70	21.60				
15	16QAM	36	0	21.71	21.80	21.80	21.73	21.67	23	0		
15	16QAM	36	20	21.63	21.80	21.75	21.78	21.65				
15	16QAM	36	39	21.61	21.65	21.81	21.73	21.61				
15	16QAM	75	0	21.66	21.76	21.91	21.83	21.79				
15	64QAM	1	0	22.00	21.90	21.93	21.76	21.96				
15	64QAM	1	37	21.66	21.66	21.79	21.66	21.69	23	0		
15	64QAM	1	74	21.74	21.71	21.71	21.82	21.73				
15	64QAM	36	0	21.82	21.84	21.81	21.82	21.84				
15	64QAM	36	20	21.73	21.82	21.79	21.71	21.72				
15	64QAM	36	39	21.70	21.67	21.77	21.64	21.74	23	0		
15	64QAM	75	0	21.67	21.61	21.79	21.60	21.65				
15	256QAM	1	0	19.82	19.90	19.92	19.75	19.71				
15	256QAM	1	37	19.67	19.80	19.85	19.75	19.80	21	2		
15	256QAM	1	74	19.87	19.70	19.81	19.66	19.78				
15	256QAM	36	0	20.00	19.75	19.96	19.83	19.77				
15	256QAM	36	20	19.75	19.69	19.82	19.81	19.69				
15	256QAM	36	39	19.64	19.65	19.77	19.70	19.67	21	2		
15	256QAM	75	0	19.90	19.84	20.01	20.07	19.98				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	21.79	21.85	22.02	21.76	21.61	23.00	0		
10	QPSK	1	24	21.73	21.81	21.86	21.83	21.65				
10	QPSK	1	49	21.82	21.90	21.84	21.65	21.78				
10	QPSK	25	0	21.85	21.83	21.98	21.78	21.72				
10	QPSK	25	12	21.79	21.84	21.91	21.83	22.00	23	0		
10	QPSK	25	25	21.78	21.86	21.95	21.87	21.83				
10	QPSK	50	0	21.87	21.77	21.98	21.93	21.81				
10	16QAM	1	0	21.99	21.82	21.98	21.86	21.79	23	0		
10	16QAM	1	25	21.68	21.74	21.87	21.74	21.82				
10	16QAM	1	49	21.81	21.68	21.77	21.63	21.70				
10	16QAM	25	0	21.65	21.78	21.75	21.78	21.72				
10	16QAM	25	12	21.64	21.75	21.83	21.77	21.70	23	0		
10	16QAM	25	25	21.67	21.63	21.79	21.75	21.66				
10	16QAM	50	0	21.80	21.74	21.92	21.82	21.76				
10	64QAM	1	0	21.89	21.92	21.99	21.79	21.84				
10	64QAM	1	25	21.85	21.65	21.82	21.67	21.84	23	0		
10	64QAM	1	49	21.77	21.77	21.85	21.85	21.68				
10	64QAM	25	0	21.63	21.60	21.73	21.55	21.58				
10	64QAM	25	12	21.77	21.85	21.87	21.67	21.75	23	0		
10	64QAM	25	25	21.77	21.75	21.86	21.73	21.71				
10	64QAM	50	0	21.78	21.68	21.72	21.56	21.61				
10	256QAM	1	0	19.90	19.83	19.85	19.70	19.76				
10	256QAM	1	25	19.72	19.82	19.77	19.71	19.80	21	2		
10	256QAM	1	49	19.75	19.80	19.83	19.72	19.79				
10	256QAM	25	0	19.86	19.81	19.93	19.84	19.85				
10	256QAM	25	12	19.63	19.68	19.85	19.74	19.67	21	2		
10	256QAM	25	25	19.68	19.78	19.83	19.65	19.65				
10	256QAM	50	0	19.89	19.78	20.04	20.13	19.92				
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2543	2593	2638.0	2683.5				
5	QPSK	1	0	21.82	21.89	21.99	21.87	21.58	23.00	0		
5	QPSK	1	12	21.74	21.79	21.89	21.74	21.64				
5	QPSK	1	24	21.76	21.79	21.78	21.75	21.73				
5	QPSK	12	0	21.75	21.79	21.89	21.82	21.83				
5	QPSK	12	7	21.86	21.81	22.00	21.74	21.94	23	0		
5	QPSK	12	13	21.77	21.80	21.99	21.85	21.82				
5	QPSK	25	0	21.87	21.81	21.87	21.84	21.93				
5	16QAM	1	0	21.96	21.78	21.98	21.90	21.95				
5	16QAM	1	12	21.66	21.70	21.81	21.71	21.76	23	0		
5	16QAM	1	24	21.68	21.75	21.87	21.69	21.71				
5	16QAM	12	0	21.73	21.79	21.85	21.73	21.71				
5	16QAM	12	7	21.69	21.77	21.85	21.83	21.67	23	0		
5	16QAM	12	13	21.69	21.70	21.83	21.66	21.61				
5	16QAM	25	0	21.78	21.77	21.85	21.75	21.80				



Band 42 Part96 ANT2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				43190	43340	43400			
Frequency (MHz)				3550	3575	3590			
20	QPSK	1	0	21.27	21.55	21.16	23	0	
20	QPSK	1	49	21.32	21.33	21.17			
20	QPSK	1	99	21.21	21.25	21.17			
20	QPSK	50	0	21.33	21.37	21.29			
20	QPSK	50	24	21.18	21.40	21.18	22	1	
20	QPSK	50	80	21.16	21.24	21.24			
20	QPSK	100	0	20.30	20.33	20.25			
20	16QAM	1	0	21.13	21.26	21.17			
20	16QAM	1	49	21.14	21.19	21.08	22	1	
20	16QAM	1	99	21.01	21.23	21.04			
20	16QAM	50	0	21.36	21.12	21.21			
20	16QAM	50	24	21.29	21.22	21.28			
20	16QAM	50	80	21.08	21.20	21.01	21.5	1.5	
20	16QAM	100	0	19.56	19.90	19.52			
20	64QAM	1	0	21.25	21.40	21.35			
20	64QAM	1	49	21.39	21.29	21.28	22	1	
20	64QAM	1	99	21.08	21.25	21.11			
20	64QAM	50	0	20.24	20.15	19.98			
20	64QAM	50	24	20.19	20.04	20.18			
20	64QAM	50	80	20.12	20.34	20.12	20.5	2.5	
20	64QAM	100	0	18.66	18.56	18.73			
20	256QAM	1	0	18.31	18.37	18.33			
20	256QAM	1	49	18.27	18.34	18.20	19	4	
20	256QAM	1	99	18.13	18.27	18.10			
20	256QAM	50	0	18.19	18.30	18.16			
20	256QAM	50	24	18.37	18.33	18.32	19	4	
20	256QAM	50	80	18.14	18.15	18.15			
20	256QAM	100	0	18.32	18.37	18.32			
Channel				43165	43340	43515			
Frequency (MHz)				3557.5	3575	3592.5			
15	QPSK	1	0	21.31	21.45	21.16	23	0	
15	QPSK	1	37	21.26	21.23	21.20			
15	QPSK	1	74	21.19	21.29	21.17			
15	QPSK	36	0	21.33	21.31	21.21			
15	QPSK	36	20	21.28	21.29	21.22	22	1	
15	QPSK	36	39	21.13	21.31	21.15			
15	QPSK	75	0	20.34	20.28	20.21			
15	16QAM	1	0	21.19	21.24	21.24			
15	16QAM	1	37	21.09	21.27	21.17	22	1	
15	16QAM	1	74	21.10	21.19	21.01			
15	16QAM	36	0	21.35	21.11	21.20			
15	16QAM	36	20	21.29	21.19	21.20	21.5	1.5	
15	16QAM	36	39	21.14	21.18	21.03			
15	16QAM	75	0	21.36	21.40	21.31			
15	64QAM	1	0	21.20	21.33	21.36			
15	64QAM	1	37	21.27	21.43	21.27	22	1	
15	64QAM	1	74	21.20	21.28	21.14			
15	64QAM	36	0	20.24	20.02	20.00			
15	64QAM	36	20	20.21	20.02	20.08	20.5	2.5	
15	64QAM	36	39	20.18	20.29	20.11			
15	64QAM	75	0	20.33	20.48	20.45			
15	256QAM	1	0	18.39	18.36	18.35			
15	256QAM	1	37	18.19	18.42	18.24	19	4	
15	256QAM	1	74	18.19	18.20	18.13			
15	256QAM	36	0	18.15	18.38	18.25			
15	256QAM	36	20	18.28	18.30	18.29	19	4	
15	256QAM	36	39	18.20	18.29	18.16			
15	256QAM	75	0	18.22	18.32	18.39			
Channel				43140	43340	43540			
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	21.23	21.49	21.21	23	0	
10	QPSK	1	25	21.32	21.25	21.24			
10	QPSK	1	49	21.25	21.35	21.25			
10	QPSK	25	0	21.32	21.42	21.32			
10	QPSK	25	12	21.29	21.31	21.32	22	1	
10	QPSK	25	25	21.20	21.23	21.13			
10	QPSK	50	0	20.22	20.38	20.29			
10	16QAM	1	0	21.14	21.27	21.27			
10	16QAM	1	25	21.13	21.16	21.16	22	1	
10	16QAM	1	49	21.09	21.15	21.00			
10	16QAM	25	0	21.37	21.15	21.14			
10	16QAM	25	12	21.26	21.14	21.15	21.5	1.5	
10	16QAM	25	25	21.00	21.24	21.08			
10	16QAM	50	0	21.30	21.46	21.26			
10	64QAM	1	0	21.25	21.26	21.27			
10	64QAM	1	25	21.30	21.39	21.28	22	1	
10	64QAM	1	49	21.25	21.35	21.18			
10	64QAM	25	0	20.12	20.06	20.00			
10	64QAM	25	12	20.22	20.01	20.14	20.5	2.5	
10	64QAM	25	25	20.20	20.28	20.09			
10	64QAM	50	0	20.43	20.50	20.40			
10	256QAM	1	0	18.38	18.47	18.34			
10	256QAM	1	25	18.29	18.31	18.14	19	4	
10	256QAM	1	49	18.19	18.29	18.21			
10	256QAM	25	0	18.21	18.28	18.26			
10	256QAM	25	12	18.37	18.42	18.38	19	4	
10	256QAM	25	25	18.14	18.30	18.20			
10	256QAM	50	0	18.31	18.42	18.27			
Channel				43115	43340	43565			
Frequency (MHz)				3552.5	3575	3597.5			
5	QPSK	1	0	21.32	21.43	21.24	23	0	
5	QPSK	1	12	21.26	21.33	21.22			
5	QPSK	1	24	21.12	21.28	21.23			
5	QPSK	12	0	21.29	21.35	21.26			
5	QPSK	12	7	21.23	21.39	21.26	22	1	
5	QPSK	12	13	21.22	21.32	21.16			
5	QPSK	25	0	20.33	20.35	20.35			
5	16QAM	1	0	21.13	21.33	21.24			
5	16QAM	1	12	21.13	21.31	21.14	22	1	
5	16QAM	1	24	21.05	21.22	21.09			
5	16QAM	12	0	21.35	21.14	21.14			
5	16QAM	12	7	21.24	21.16	21.17	21.5	1.5	
5	16QAM	12	13	21.10	21.23	21.07			
5	16QAM	25	0	21.29	21.40	21.34			
5	64QAM	1	0	21.24	21.25	21.22			
5	64QAM	1	12	21.36	21.31	21.38	22	1	
5	64QAM	1	24	21.23	21.27	21.19			
5	64QAM	12	0	20.19	20.11	20.06			
5	64QAM	12	7	20.19	20.09	20.12	20.5	2.5	
5	64QAM	12	13	20.09	20.30	20.19			
5	64QAM	25	0	20.38	20.49	20.39			
5	256QAM	1	0	18.27	18.45	18.35			
5	256QAM	1	12	18.19	18.38	18.16	19	4	
5	256QAM	1	24	18.11	18.16	18.09			
5	256QAM	12	0	18.19	18.27	18.19			
5	256QAM	12	7	18.28	18.30	18.34	19	4	
5	256QAM	12	13	18.21	18.33	18.09			
5	256QAM	25	0	18.24	18.36	18.33			

Band 42 FCC Part27Q ANT2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.45	21.65	21.39	23	0	
20	QPSK	1	49	21.43	21.47	21.37			
20	QPSK	1	99	21.36	21.49	21.40			
20	QPSK	50	0	21.43	21.54	21.42			
20	QPSK	50	24	21.41	21.50	21.42	22	1	
20	QPSK	50	80	21.38	21.42	21.36			
20	QPSK	100	0	20.45	20.51	20.45			
20	16QAM	1	0	21.35	21.49	21.39			
20	16QAM	1	49	21.30	21.42	21.29	22	1	
20	16QAM	1	99	21.23	21.37	21.22			
20	16QAM	50	0	21.48	21.30	21.36			
20	16QAM	50	24	21.46	21.32	21.40	21.5	1.5	
20	16QAM	50	80	21.24	21.39	21.24			
20	16QAM	100	0	19.66	19.51	19.67			
20	64QAM	1	0	2					



Band 43 ANT2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				4390	4390	4490				
Frequency (MHz)				3610	3650	3690				
20	QPSK	1	0	21.56	21.72	21.64	23	0		
20	QPSK	1	49	21.53	21.57	21.42				
20	QPSK	1	99	21.56	21.60	21.54				
20	QPSK	50	0	21.62	21.68	21.64				
20	QPSK	50	24	21.61	21.66	21.25	22	1		
20	QPSK	50	50	21.55	21.61	21.53				
20	QPSK	100	0	20.53	20.62	20.50				
20	16QAM	1	0	21.48	21.55	21.47				
20	16QAM	1	49	21.50	21.57	21.44	22	1		
20	16QAM	1	99	21.46	21.60	21.51				
20	16QAM	50	0	21.40	21.44	21.33				
20	16QAM	50	24	21.34	21.43	21.38				
20	16QAM	50	50	21.38	21.45	21.30	21.5	1.5		
20	16QAM	100	0	19.56	19.63	19.58				
20	64QAM	1	0	21.57	21.65	21.52				
20	64QAM	1	49	21.55	21.63	21.52	22	1		
20	64QAM	1	99	21.60	21.66	21.61				
20	64QAM	50	0	20.40	20.46	20.36				
20	64QAM	50	24	20.33	20.46	20.36	20.5	2.5		
20	64QAM	50	50	20.44	20.48	20.36				
20	64QAM	100	0	18.57	18.64	18.53				
20	256QAM	1	0	18.43	18.47	18.35				
20	256QAM	1	49	18.44	18.58	18.48	19	4		
20	256QAM	1	99	18.36	18.48	18.39				
20	256QAM	50	0	18.52	18.62	18.51				
20	256QAM	50	24	18.57	18.64	18.57	19	4		
20	256QAM	50	50	18.48	18.63	18.55				
20	256QAM	100	0	18.52	18.60	18.54				
Channel				4355	4390	4415	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3675	3650	3692.5				
15	QPSK	1	0	21.54	21.67	21.60	23	0		
15	QPSK	1	37	21.33	21.44	21.45				
15	QPSK	1	74	21.37	21.57	21.47				
15	QPSK	36	0	21.49	21.58	21.46				
15	QPSK	36	20	21.48	21.55	21.47	22	1		
15	QPSK	36	39	21.48	21.53	21.37				
15	QPSK	75	0	21.45	21.55	21.42				
15	16QAM	1	0	21.45	21.41	21.39				
15	16QAM	1	37	21.44	21.46	21.33	22	1		
15	16QAM	1	74	21.42	21.56	21.41				
15	16QAM	36	0	21.21	21.34	21.25				
15	16QAM	36	20	21.28	21.36	21.28	21.5	1.5		
15	16QAM	36	39	21.31	21.34	21.30				
15	16QAM	75	0	21.23	21.39	21.26				
15	64QAM	1	0	21.48	21.56	21.47				
15	64QAM	1	37	21.45	21.59	21.46	22	1		
15	64QAM	1	74	21.48	21.59	21.47				
15	64QAM	36	0	20.32	20.34	20.25				
15	64QAM	36	20	20.19	20.41	20.25	20.5	2.5		
15	64QAM	36	39	20.34	20.44	20.33				
15	64QAM	75	0	20.26	20.37	20.28				
15	256QAM	1	0	18.25	18.34	18.31				
15	256QAM	1	37	18.43	18.54	18.43	19	4		
15	256QAM	1	74	18.28	18.45	18.32				
15	256QAM	36	0	18.39	18.53	18.46				
15	256QAM	36	20	18.40	18.55	18.54	19	4		
15	256QAM	36	39	18.39	18.50	18.36				
15	256QAM	75	0	18.48	18.55	18.44				
Channel				4340	4390	4440	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3605	3650	3695				
10	QPSK	1	0	21.53	21.59	21.49	23	0		
10	QPSK	1	25	21.37	21.54	21.45				
10	QPSK	1	49	21.41	21.53	21.52				
10	QPSK	25	0	21.46	21.55	21.49				
10	QPSK	25	12	21.46	21.61	21.41	22	1		
10	QPSK	25	25	21.41	21.52	21.45				
10	QPSK	50	0	21.51	21.54	21.42				
10	16QAM	1	0	21.35	21.44	21.43				
10	16QAM	1	25	21.47	21.53	21.42	22	1		
10	16QAM	1	49	21.41	21.55	21.49				
10	16QAM	25	0	21.16	21.31	21.17				
10	16QAM	25	12	21.21	21.39	21.32	21.5	1.5		
10	16QAM	25	25	21.36	21.39	21.28				
10	16QAM	50	0	21.23	21.32	21.28				
10	64QAM	1	0	21.40	21.59	21.53				
10	64QAM	1	25	21.50	21.53	21.49	22	1		
10	64QAM	1	49	21.49	21.56	21.54				
10	64QAM	25	0	20.27	20.31	20.21				
10	64QAM	25	12	20.17	20.39	20.22	20.5	2.5		
10	64QAM	25	25	20.31	20.34	20.34				
10	64QAM	50	0	20.50	20.50	20.44				
10	256QAM	1	0	18.26	18.38	18.27				
10	256QAM	1	25	18.40	18.43	18.39	19	4		
10	256QAM	1	49	18.32	18.38	18.24				
10	256QAM	25	0	18.37	18.56	18.45				
10	256QAM	25	12	18.41	18.52	18.56	19	4		
10	256QAM	25	25	18.41	18.54	18.41				
10	256QAM	50	0	18.52	18.47	18.41				
Channel				4315	4390	4465	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				3625	3650	3697.5				
5	QPSK	1	0	21.54	21.63	21.57	23	0		
5	QPSK	1	12	21.41	21.51	21.37				
5	QPSK	1	24	21.39	21.56	21.45				
5	QPSK	12	0	21.46	21.64	21.45				
5	QPSK	12	7	21.52	21.57	21.41	22	1		
5	QPSK	12	13	21.41	21.54	21.46				
5	QPSK	25	0	21.49	21.59	21.43				
5	16QAM	1	0	21.45	21.40	21.34				
5	16QAM	1	12	21.41	21.45	21.41	22	1		
5	16QAM	1	24	21.43	21.56	21.42				
5	16QAM	12	0	21.18	21.31	21.18				
5	16QAM	12	7	21.25	21.38	21.28	21.5	1.5		
5	16QAM	12	13	21.26	21.38	21.24				
5	16QAM	25	0	21.32	21.33	21.22				
5	64QAM	1	0	21.38	21.57	21.53				
5	64QAM	1	12	21.47	21.54	21.51	22	1		
5	64QAM	1	24	21.52	21.58	21.49				
5	64QAM	12	0	20.33	20.32	20.26				
5	64QAM	12	7	20.24	20.34	20.22	20.5	2.5		
5	64QAM	12	13	20.31	20.35	20.37				
5	64QAM	25	0	20.28	20.41	20.24				
5	256QAM	1	0	18.27	18.33	18.37				
5	256QAM	1	12	18.38	18.47	18.46	19	4		
5	256QAM	1	24	18.30	18.33	18.32				
5	256QAM	12	0	18.42	18.53	18.46				
5	256QAM	12	7	18.45	18.50	18.56	19	4		
5	256QAM	12	13	18.46	18.51	18.42				
5	256QAM	25	0	18.45	18.54	18.45				

Band 48 ANT2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				5530	5530	56150	56840			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	21.83	21.85	21.64	21.72			
20	QPSK	1	49	21.66	21.69	21.62	21.61	23	0	
20	QPSK	1	99	21.63	21.73	21.69	21.69			
20	QPSK	50	0	21.65	21.75	21.69	21.64			
20	QPSK	50	24	21.61	21.73	21.63	21.68	22	1	
20	QPSK	50	50	21.68	21.71	21.66	21.66			
20	QPSK	100	0	20.70	20.74	20.6				



Reduced Power for DSI 2 Standalone

GSM850 ANT0	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	848.6	33.50	824.2	836.4	848.6	24.50
Frequency (MHz)	824.2	836.4	848.6	33.50	824.2	836.4	848.6	24.50
GSM 1 Tx slot	32.96	32.75	32.55	33.50	23.66	23.75	23.55	24.50
GPRS 1 Tx slot	32.96	32.74	32.43	33.50	23.56	23.74	23.43	24.50
GPRS 2 Tx slots	29.77	29.76	29.66	31.00	23.77	23.76	23.66	26.00
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74
GPRS 4 Tx slots	28.63	26.78	26.37	27.00	23.63	23.76	23.37	24.00
EDGE 1 Tx slot	25.74	25.62	25.62	26.50	16.74	16.82	16.62	17.50
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	18.06	18.16	17.93	19.00
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	18.51	18.56	18.33	19.24
EDGE 4 Tx slots	20.76	20.80	20.65	22.00	17.76	17.80	17.65	19.00

GSM1900 ANT0	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	1909.6	30.50	1850.2	1880	1909.6	21.50
Frequency (MHz)	1850.2	1880	1909.6	30.50	1850.2	1880	1909.6	21.50
GSM 1 Tx slot	29.88	30.02	29.80	30.50	20.68	21.02	20.80	21.50
GPRS 1 Tx slot	29.71	29.63	29.67	30.50	20.71	20.93	20.67	21.50
GPRS 2 Tx slots	26.30	26.32	26.23	27.00	20.30	20.32	20.23	21.00
GPRS 3 Tx slots	23.74	24.13	23.88	25.00	19.48	19.87	19.62	20.74
GPRS 4 Tx slots	22.22	22.51	22.39	24.00	19.22	19.51	19.39	21.00
EDGE 1 Tx slot	24.97	25.10	25.04	25.50	15.97	16.10	16.04	16.50
EDGE 2 Tx slots	23.37	23.45	23.31	24.00	17.37	17.45	17.31	18.00
EDGE 3 Tx slots	22.12	22.38	22.25	23.00	17.66	18.12	17.69	18.74
EDGE 4 Tx slots	19.68	20.12	19.78	20.50	16.68	17.12	16.78	17.50

Band	TX Channel	WCDMA I ANT0			Tune-up Limit (dBm)	WCDMA IV ANT0			Tune-up Limit (dBm)	WCDMA V ANT0			Tune-up Limit (dBm)
		9692	9590	9638		1312	1413	1518		4192	4162	4293	
	Rx Channel	9692	9590	9638	1537	1638	1739		4367	4407	4458		
	Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.94	23.06	22.78	24.00	22.71	22.93	22.88	24.00	23.07	23.16	23.02	24.00
3GPP Rel 99	RMC 12.2Kbps	23.10	23.13	22.91	24.00	22.85	23.05	22.96	24.00	23.26	23.32	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1	22.24	22.17	22.14	23.00	22.12	22.09	22.06	23.00	22.24	22.39	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2	21.96	22.18	22.20	23.00	21.85	22.05	22.07	23.00	22.11	22.22	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3	21.68	21.70	21.42	22.50	21.59	21.59	21.38	22.50	21.74	21.83	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4	21.67	21.65	21.70	22.50	21.67	21.59	21.53	22.50	21.72	21.78	21.75	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.16	22.22	22.19	23.00	22.07	22.15	22.05	23.00	22.23	22.42	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.39	22.31	22.21	23.00	22.22	22.17	22.14	23.00	22.45	22.34	22.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.57	21.82	21.67	22.50	21.54	21.76	21.62	22.50	21.77	21.91	21.83	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.81	21.68	21.38	22.50	21.67	21.64	21.33	22.50	21.88	21.87	21.53	22.50
3GPP Rel 6	HSPA Subtest-1	22.26	22.24	22.09	23.00	22.20	22.18	21.98	23.00	22.37	22.33	22.16	23.00
3GPP Rel 6	HSPA Subtest-2	20.27	20.30	20.05	21.00	20.15	20.50	19.93	21.00	20.33	20.43	20.13	21.00
3GPP Rel 6	HSPA Subtest-3	21.07	21.32	21.23	22.00	20.92	21.15	21.09	22.00	21.09	21.30	21.30	22.00
3GPP Rel 6	HSPA Subtest-4	19.93	20.13	20.01	21.00	19.73	20.02	19.93	21.00	20.02	20.16	20.04	21.00
3GPP Rel 6	HSPA Subtest-5	21.86	22.14	22.00	23.00	21.78	22.09	21.98	23.00	21.91	22.18	22.13	23.00



Band 2 Ant0 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Hsp./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
20	QPSK	1	0	22.47	22.57	22.31		
20	QPSK	1	4	22.22	22.32	22.06	24	0
20	QPSK	1	8	22.38	22.47	22.36		
20	QPSK	50	0	22.32	22.43	22.40		
20	QPSK	50	4	22.33	22.43	22.40		
20	QPSK	50	8	22.27	22.38	22.26	24	0
20	QPSK	100	0	22.28	22.41	22.36		
20	QPSK	100	4	22.28	22.42	22.33		
20	QPSK	100	8	22.25	22.24	22.19	24	0
20	QPSK	1	9	22.22	22.24	22.12		
20	QPSK	5	0	21.38	21.51	21.38		
20	QPSK	50	24	21.38	21.39	21.37	23	1
20	QPSK	50	28	21.33	21.37	21.31		
20	QPSK	50	32	21.41	21.45	21.51		
20	QPSK	1	0	21.51	21.60	21.51		
20	QPSK	1	4	21.48	21.56	21.54	23	1
20	QPSK	1	8	20.54	20.57	20.44		
20	QPSK	50	26	20.43	20.46	20.41		
20	QPSK	50	30	20.41	20.43	20.31	22	2
20	QPSK	100	0	20.44	20.53	20.50		
20	QPSK	1	4	18.46	18.49	18.46		
20	QPSK	1	8	18.49	18.53	18.46	20	4
20	QPSK	1	9	18.41	18.45	18.43		
20	QPSK	50	24	18.45	18.48	18.46		
20	QPSK	50	28	18.45	18.44	18.45	20	4
20	QPSK	50	32	18.44	18.39	18.36		
20	QPSK	100	0	18.45	18.48	18.46		
Channel								
20	QPSK	1	0	18.975	18.990	18.975		
20	QPSK	1	4	18.975	18.990	18.975		
20	QPSK	1	8	18.975	18.990	18.975		
20	QPSK	50	24	18.975	18.990	18.975	23	1
20	QPSK	50	28	18.975	18.990	18.975		
20	QPSK	50	32	18.975	18.990	18.975		
20	QPSK	100	0	18.975	18.990	18.975		
20	QPSK	100	4	18.975	18.990	18.975		
20	QPSK	100	8	18.975	18.990	18.975		
20	QPSK	1	9	18.41	18.44	18.44	20	4
Channel								
20	QPSK	1	0	18.95	18.960	18.95		
20	QPSK	1	4	18.95	18.960	18.95		
20	QPSK	1	8	18.95	18.960	18.95		
20	QPSK	50	24	18.95	18.960	18.95	22	2
20	QPSK	50	28	18.95	18.960	18.95		
20	QPSK	50	32	18.95	18.960	18.95		
20	QPSK	100	0	18.95	18.960	18.95		
20	QPSK	100	4	18.95	18.960	18.95		
20	QPSK	100	8	18.95	18.960	18.95		
20	QPSK	1	9	18.41	18.44	18.44	20	4
Channel								
20	QPSK	1	0	18.925	18.940	18.925		
20	QPSK	1	4	18.925	18.940	18.925		
20	QPSK	1	8	18.925	18.940	18.925		
20	QPSK	50	24	18.925	18.940	18.925	22	2
20	QPSK	50	28	18.925	18.940	18.925		
20	QPSK	50	32	18.925	18.940	18.925		
20	QPSK	100	0	18.925	18.940	18.925		
20	QPSK	100	4	18.925	18.940	18.925		
20	QPSK	100	8	18.925	18.940	18.925		
20	QPSK	1	9	18.41	18.44	18.44	20	4

Band 4 Ant0 DS12 Standalone

BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Hsp./Freq.	Power Hsp./Freq.	Turn-up Time (min)	MPR (dB)
Channel								
20	QPSK	1	0	22.67	22.76	22.56		
20	QPSK	1	4	22.42	22.52	22.27	24	0
20	QPSK	1	8	22.43	22.58	22.51		
20	QPSK	50	0	22.54	22.67	22.59		
20	QPSK	50	4	22.55	22.68	22.61		
20	QPSK	50	8	22.48	22.55	22.47	24	0
20	QPSK	100	0	22.46	22.56	22.50		
20	QPSK	100	4	22.47	22.57	22.57		
20	QPSK	100	8	22.50	22.58	22.52	24	0
20	QPSK	1	9	22.50	22.49	22.44		
20	QPSK	5	0	21.73	21.86	21.77		
20	QPSK	50	24	21.82	21.88	21.89	23	1
20	QPSK	50	28	21.86	21.89	21.84		
20	QPSK	50	32	21.84	21.86	21.89		
20	QPSK	1	0	21.77	21.90	21.75		
20	QPSK	1	4	21.88	21.81	21.77	23	1
20	QPSK	1	8	21.83	21.82	21.82		
20	QPSK	50	26	20.95	20.78	20.68	22	2
20	QPSK	50	30	20.72	20.68	20.67		
20	QPSK	100	0	20.85	20.79	20.68		
20	QPSK	1	4	18.74	18.76	18.83		
20	QPSK	1	8	18.74	18.77	18.73	20	4
20	QPSK	1	9	18.68	18.78	18.67		
20	QPSK	50	24	18.69	18.67	18.65		
20	QPSK	50	28	18.69	18.67	18.65	20	4
20	QPSK	50	32	18.69	18.69	18.58		
20	QPSK	100	0	18.69	18.67	18.67		
Channel								
20	QPSK	1	0	20.755	20.778	20.755		
20	QPSK	1	4	20.755	20.778	20.755		
20	QPSK	1	8	20.755	20.778	20.755		
20	QPSK	50	24	20.755	20.778	20.755	23	1
20	QPSK	50	28	20.755	20.778	20.755		
20	QPSK	50	32	20.755	20.778	20.755		
20	QPSK	100	0	20.755	20.778	20.755		
20	QPSK	100	4	20.755	20.778	20.755		
20	QPSK	100	8	20.755	20.778	20.755		
20	QPSK	1	9	18.41	18.44	18.44	20	4
Channel								
20	QPSK	1	0	21.175	21.192	21.175		
20	QPSK	1	4	21.175	21.192	21.175		
20	QPSK	1	8	21.175	21.192	21.175		
20	QPSK	50	24	21.175	21.192	21.175	23	1
20	QPSK	50	28	21.175	21.192	21.175		
20	QPSK	50	32	21.175	21.192	21.175		
20	QPSK	100	0	21.175	21.192	21.175		
20	QPSK	100	4	21.175	21.192	21.175		
20	QPSK	100	8	21.175	21.192	21.175		
20	QPSK	1	9	18.41	18.44	18.44	20	4
Channel								
20	QPSK	1	0	22.81	22.70	22.46		
20	QPSK	1	4	22.47	22.47	22.41	24	0
20	QPSK	1	8	22.28	22.50	22.27		
20	QPSK	50	0	22.43	22.63	22.48		
20	QPSK	50	4	22.37	22.47	22.38		
20	QPSK	50	8	22.36	22.42	22.37	24	0
20	QPSK	100	0	22.35	22.49	22.42		
20	QPSK	100	4	22.40	22.42	22.42		
20	QPSK	100	8	22.42	22.44	22.44	24	0
20	QPSK	1	9	22.39	22.46	22.44		
20	QPSK	5	0	21.63	21.81	21.64		
20	QPSK	50	26	21.53	21.54	21.59	23	1
20	QPSK	50	30	21.56	21.57	21.57		
20	QPSK	50	34	21.56	21.57	21.57		
20	QPSK	100	0	21.58	21.62	21.56		
20	QPSK	100	4	21.59	21.62	21.72		
20	QPSK	100	8	21.59	21.78	21.61	23	1
20	QPSK	1	0	21.58	21.63	21.61		
20	QPSK	1	4	21.58	21.63	21.61		
20	QPSK	1	8	21.58	21.63	21.61		
20	QPSK	50	26	20.92	20.79	20.69	22	2
20	QPSK	50	30	20.85	20.68	20.67		
20	QPSK	50	34	20.87	20.64	20.54		
20	QPSK	100	0	20.81	20.72	20.54		
20	QPSK	1	4	18.76	18.76	18.83		
20	QPSK	1	8	18.76	18.79	18.69	20	4
20	QPSK	1	9	18.70	18.69	18.68		
20	QPSK	50	24	18.57	18.55	18.55		
20	QPSK	50	28	18.57	18.55	18.51	20	4
20	QPSK	50	32	18.54	18.55	18.49		
20	QPSK	100	0	18.54	18.55	18.49		
20	QPSK	100	4	18.54	18.55	18.49		
20	QPSK	100	8	18.54	18.55	18.49		
20	QPSK	1	9	18.41	18.44	18.44	20	4
Channel								
20	QPSK	1	0	20.960	20.978	20.960		
20	QPSK	1	4	20.960	20.978	20.960		



Band 12 Ant0 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.82	22.79				
10	QPSK	1	25	22.73	22.82	22.76		24	0	
10	QPSK	1	49	22.84	22.88	22.73				
10	QPSK	25	0	22.82	22.73	22.88		24	0	
10	QPSK	25	25	22.82	22.73	22.88				
10	QPSK	50	0	22.88	22.82	22.82				
10	QPSK	50	25	22.88	22.82	22.82		24	0	
10	16QAM	1	25	22.88	22.88	22.88				
10	16QAM	1	49	22.89	22.82	22.88				
10	16QAM	25	0	22.89	22.82	22.82		23.5	0.5	
10	16QAM	25	25	22.29	22.34	22.32				
10	16QAM	50	0	22.93	22.82	22.19				
10	16QAM	50	25	22.98	22.84	22.32				
10	64QAM	1	0	22.49	22.56	22.43				
10	64QAM	1	25	22.36	22.35	22.35		23.5	0.5	
10	64QAM	1	49	22.39	22.39	22.30				
10	64QAM	25	0	21.33	21.46	21.38				
10	64QAM	25	25	21.28	21.28	21.24		22.5	1.5	
10	64QAM	50	0	21.28	21.51	21.22				
10	64QAM	50	25	21.38	21.41	21.38				
10	256QAM	1	0	18.63	18.61	18.62				
10	256QAM	1	25	18.46	18.45	18.46		20.5	3.5	
10	256QAM	1	49	18.41	18.45	18.35				
10	256QAM	25	0	18.28	18.29	18.35				
10	256QAM	25	25	18.31	18.34	18.27		20.5	3.5	
10	256QAM	50	0	18.19	18.25	18.24				
10	256QAM	50	25	18.25	18.25	18.16				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.83	22.83	22.89				
5	QPSK	1	24	22.88	22.89	22.86		24	0	
5	QPSK	12	0	22.76	22.81	22.83				
5	QPSK	12	7	22.82	22.74	22.80		24	0	
5	QPSK	12	13	22.59	22.59	22.63				
5	QPSK	25	0	22.74	22.77	22.79				
5	16QAM	1	7	22.77	22.77	22.69		24	0	
5	16QAM	1	12	22.54	22.55	22.56				
5	16QAM	12	7	22.29	22.29	22.35				
5	16QAM	12	13	22.29	22.27	22.20		23.5	0.5	
5	64QAM	1	0	22.29	22.44	22.38				
5	64QAM	1	24	22.39	22.39	22.33		23.5	0.5	
5	64QAM	1	24	22.25	22.52	22.15				
5	64QAM	12	0	21.23	21.59	21.30				
5	64QAM	12	7	21.28	21.29	21.25		22.5	1.5	
5	64QAM	12	13	21.14	21.12	21.09				
5	64QAM	25	0	22.23	22.55	22.28				
5	64QAM	25	0	22.29	22.44	22.38				
5	64QAM	25	24	22.39	22.39	22.33		23.5	0.5	
5	256QAM	1	0	18.51	18.51	18.56				
5	256QAM	1	24	18.27	18.27	18.27		20.5	3.5	
5	256QAM	12	0	18.28	18.28	18.35				
5	256QAM	12	7	18.25	18.24	18.24				
5	256QAM	12	13	18.28	18.11	18.16		20.5	3.5	
5	256QAM	25	0	18.25	18.25	18.25				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.83	22.83	22.89				
3	QPSK	1	14	22.82	22.87	22.70		24	0	
3	QPSK	3	0	22.75	22.82	22.78				
3	QPSK	3	4	22.85	22.74	22.84				
3	QPSK	3	7	22.54	22.61	22.54		24	0	
3	16QAM	1	0	22.83	22.77	22.76				
3	16QAM	1	8	22.85	22.61	22.59		24	0	
3	16QAM	3	0	22.76	22.77	22.76				
3	16QAM	3	4	22.30	22.37	22.36				
3	16QAM	3	7	22.18	22.30	22.22		23.5	0.5	
3	64QAM	1	0	22.34	22.21	22.07				
3	64QAM	1	8	22.33	22.30	22.30				
3	64QAM	1	0	22.32	22.45	22.30		23.5	0.5	
3	64QAM	1	14	22.28	22.29	22.18				
3	64QAM	3	0	21.25	21.41	21.30				
3	64QAM	3	4	21.16	21.14	21.09		22.5	1.5	
3	64QAM	3	7	21.18	21.15	21.15				
3	256QAM	1	0	18.31	18.26	18.38				
3	256QAM	1	14	18.28	18.40	18.25		20.5	3.5	
3	256QAM	3	0	18.22	18.25	18.32				
3	256QAM	3	4	18.25	18.24	18.14		20.5	3.5	
3	256QAM	3	7	18.10	18.18	18.14				
3	256QAM	15	0	18.24	18.25	18.34				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.81	22.83	22.87				
1.4	QPSK	1	3	22.85	22.84	22.73				
1.4	QPSK	1	6	22.89	22.75	22.89		24	0	
1.4	QPSK	3	0	22.77	22.80	22.80				
1.4	QPSK	3	1	22.80	22.70	22.87				
1.4	QPSK	3	3	22.81	22.65	22.54		24	0	
1.4	16QAM	1	0	22.83	22.78	22.71				
1.4	16QAM	1	3	22.89	22.82	22.86		24	0	
1.4	16QAM	3	0	22.83	22.88	22.80				
1.4	16QAM	3	1	22.21	22.43	22.28				
1.4	16QAM	3	1	22.20	22.28	22.21				
1.4	16QAM	6	0	22.32	22.41	22.31		23.5	0.5	
1.4	64QAM	1	0	22.35	22.41	22.37				
1.4	64QAM	1	3	22.29	22.27	22.30				
1.4	64QAM	1	6	22.23	22.34	22.18		23.5	0.5	
1.4	64QAM	3	0	22.27	22.34	22.31				
1.4	64QAM	3	3	22.14	22.08	22.13		22.5	1.5	
1.4	256QAM	1	0	18.23	18.20	18.26				
1.4	256QAM	1	3	18.41	18.37	18.39		20.5	3.5	
1.4	256QAM	3	0	18.22	18.39	18.21				
1.4	256QAM	3	1	18.21	18.24	18.20				
1.4	256QAM	6	0	18.08	18.11	18.20		20.5	3.5	
1.4	256QAM	6	3	18.25	18.25	18.35				

Band 13 Ant0 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.82	22.82	22.85				
10	QPSK	1	25	22.83	22.83	22.83		24	0	
10	QPSK	1	49	22.38	22.45	22.41				
10	QPSK	25	0	22.45	22.41	22.41		24	0	
10	QPSK	25	25	22.31	22.76	22.74				
10	QPSK	50	0	22.35	22.76	22.67				
10	16QAM	1	25	22.32	22.42	22.29		24	0	
10	16QAM	1	49	22.37	22.78	22.78				
10	16QAM	1	49	22.32	22.76	22.82				
10	16QAM	25	0	22.32	22.42	22.29		23.5	0.5	
10	16QAM	25	25	21.28	21.28	21.28				
10	16QAM	50	0	21.80	21.80	21.80				
10	16QAM	50	25	22.01	22.01	22.01				
10	64QAM	1	0	22.16	22.16	22.16		23.5	0.5	
10	64QAM	1	25	21.97	21.97	21.97				
10	64QAM	1	49	22.01	22.01	22.01				
10	64QAM	25	0	21.05	21.41	21.33				
10	64QAM	25	25	20.86	20.86	20.86		22.5	1.5	
10	64QAM	50	0	21.05	21.05	21.05				
10	64QAM	50	25	21.05	21.05	21.05				
10	256QAM	1	0	18.23	18.24	18.27				
10	256QAM	1	25	18.20	18.25	18.15		20.5	3.5	
10	256QAM	1	49	18.26	18.26	18.18				
10	256QAM	25	0	18.01	18.01	18.29				
10	256QAM	25	25	18.24	18.33	18.20		20.5	3.5	
10	256QAM	50	0	18.23	18.20	18.				



Band 26 Ant0 DSI2 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.29	22.34	22.48				
15	QPSK	37	0	22.42	22.52	22.62				
15	QPSK	1	74	22.38	22.30	22.38	24	0		
15	QPSK	36	0	22.49	22.54	22.59				
15	QPSK	36	20	22.25	22.43	22.56				
15	QPSK	36	36	22.41	22.47	22.39	24	0		
15	QPSK	75	0	22.26	22.40	22.32				
15	HQAM	1	0	22.41	22.55	22.43				
15	HQAM	1	37	22.42	22.46	22.41	24	0		
15	HQAM	1	74	22.37	22.39	22.28				
15	HQAM	36	0	21.94	22.03	21.99				
15	HQAM	36	20	21.87	21.87	21.87	23.5	0.5		
15	HQAM	36	36	21.79	21.86	21.81				
15	HQAM	75	0	21.84	21.94	21.88				
15	HQAM	1	0	21.95	22.04	21.95				
15	HQAM	1	37	21.95	21.96	21.83	23.5	0.5		
15	HQAM	1	74	21.79	21.85	21.78				
15	HQAM	36	0	20.89	20.97	20.85				
15	HQAM	36	20	20.86	20.89	20.81	22.5	1.5		
15	HQAM	36	36	20.75	20.81	20.78				
15	HQAM	75	0	20.83	20.99	20.90				
15	25QAM	1	0	18.65	18.67	18.65				
15	25QAM	1	37	18.74	18.76	18.74	20.5	3.5		
15	25QAM	1	74	18.82	18.86	18.80				
15	25QAM	36	0	18.82	18.82	18.78	20.5	3.5		
15	25QAM	36	20	18.82	18.82	18.78				
15	25QAM	36	36	18.83	18.74	18.68				
15	25QAM	75	0	18.82	18.78	18.73				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.63	22.67	22.39				
10	QPSK	1	49	22.24	22.38	22.32	24	0		
10	QPSK	25	0	22.28	22.43	22.39				
10	QPSK	12	0	22.29	22.31	22.29				
10	QPSK	25	25	22.34	22.40	22.38	24	0		
10	QPSK	50	0	22.19	22.26	22.29				
10	HQAM	1	0	22.37	22.44	22.30				
10	HQAM	1	25	22.31	22.33	22.27	24	0		
10	HQAM	1	49	22.27	22.27	22.21				
10	HQAM	25	0	21.84	21.89	21.84				
10	HQAM	25	12	21.78	21.77	21.82	23.5	0.5		
10	HQAM	25	25	21.84	21.77	21.86				
10	HQAM	50	0	21.79	21.86	21.77				
10	HQAM	1	0	21.88	21.94	21.84				
10	HQAM	1	25	21.83	21.83	21.78	23.5	0.5		
10	HQAM	1	49	21.75	21.74	21.85				
10	HQAM	25	0	20.82	20.96	20.80				
10	HQAM	25	12	20.75	20.77	20.86	22.5	1.5		
10	HQAM	25	25	20.82	20.75	20.72				
10	HQAM	50	0	20.89	20.94	20.83				
10	25QAM	1	0	18.65	18.76	18.68				
10	25QAM	1	25	18.65	18.76	18.78	20.5	3.5		
10	25QAM	1	49	18.74	18.77	18.76				
10	25QAM	36	0	18.74	18.76	18.76	20.5	3.5		
10	25QAM	36	12	18.75	18.75	18.81				
10	25QAM	36	25	18.74	18.65	18.64				
10	25QAM	75	0	18.65	18.78	18.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.44	22.48	22.44				
5	QPSK	1	12	22.38	22.45	22.37	24	0		
5	QPSK	1	24	22.25	22.39	22.30				
5	QPSK	1	49	22.41	22.41	22.25				
5	QPSK	12	0	22.24	22.28	22.27	24	0		
5	QPSK	12	13	22.31	22.31	22.25				
5	QPSK	25	25	22.29	22.34	22.29				
5	HQAM	1	0	22.28	22.52	22.30				
5	HQAM	1	12	22.38	22.36	22.32	24	0		
5	HQAM	12	0	21.88	21.95	21.79				
5	HQAM	12	7	21.73	21.73	21.82	23.5	0.5		
5	HQAM	12	13	21.84	21.77	21.86				
5	HQAM	25	0	21.71	21.89	21.78				
5	HQAM	1	0	21.81	21.96	21.86				
5	HQAM	1	12	21.84	21.77	21.87	23.5	0.5		
5	HQAM	1	24	21.85	21.72	21.75				
5	HQAM	12	0	20.83	20.86	20.71				
5	HQAM	12	7	20.83	20.86	20.71	22.5	1.5		
5	HQAM	12	13	20.83	20.86	20.87				
5	HQAM	25	0	18.65	18.68	18.67				
5	HQAM	25	12	18.69	18.80	18.81	20.5	3.5		
5	25QAM	1	24	18.73	18.82	18.71				
5	25QAM	1	24	18.73	18.82	18.81	20.5	3.5		
5	25QAM	12	7	18.74	18.73	18.73				
5	25QAM	12	13	18.74	18.66	18.64				
5	25QAM	25	0	18.65	18.78	18.74				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.65	22.63	22.63				
3	QPSK	1	8	22.39	22.37	22.31	24	0		
3	QPSK	1	14	22.29	22.41	22.25				
3	QPSK	1	49	22.42	22.48	22.46				
3	QPSK	8	4	22.30	22.31	22.20	24	0		
3	QPSK	8	7	22.32	22.34	22.28				
3	QPSK	15	0	22.12	22.37	22.28				
3	HQAM	1	0	22.38	22.44	22.34				
3	HQAM	1	8	22.30	22.40	22.27	24	0		
3	HQAM	1	14	22.31	22.28	22.14				
3	HQAM	8	0	21.82	21.96	21.79				
3	HQAM	8	4	21.84	21.76	21.78	23.5	0.5		
3	HQAM	8	7	21.71	21.76	21.78				
3	HQAM	15	0	21.74	21.82	21.85				
3	HQAM	1	0	21.80	22.00	21.87				
3	HQAM	1	8	21.78	21.81	21.68	23.5	0.5		
3	HQAM	1	14	21.85	21.70	21.68				
3	HQAM	8	0	20.78	20.93	20.78				
3	HQAM	8	7	20.69	20.68	20.70	22.5	1.5		
3	HQAM	8	7	20.64	20.88	20.65				
3	HQAM	15	0	20.83	20.94	20.81				
3	25QAM	1	0	18.64	18.62	18.64				
3	25QAM	1	8	18.63	18.82	18.80	20.5	3.5		
3	25QAM	1	14	18.74	18.82	18.71				
3	25QAM	8	0	18.84	18.80	18.81				
3	25QAM	8	4	18.77	18.68	18.64	20.5	3.5		
3	25QAM	8	7	18.76	18.68	18.62				
3	25QAM	15	0	18.70	18.79	18.74				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.43	22.52	22.52				
1.4	QPSK	1	3	22.33	22.47	22.29	24	0		
1.4	QPSK	1	5	22.24	22.46	22.33				
1.4	QPSK	1	49	22.44	22.47	22.42				
1.4	QPSK	3	1	22.30	22.33	22.28				
1.4	QPSK	3	3	22.25	22.39	22.26	24	0		
1.4	QPSK	3	5	22.18	22.32	22.29				
1.4	HQAM	1	0	22.29	22.45	22.33				
1.4	HQAM	1	3	22.28	22.38	22.29	24	0		
1.4	HQAM	1	5	22.31	22.29	22.25				
1.4	HQAM	3	0	22.32	22.50	22.27				
1.4	HQAM	3	1	22.24	22.25	22.28	23.5	1		
1.4	HQAM	3	3	22.16	22.31	22.28				
1.4	HQAM	6	0	21.80	21.85	21.84	23.5	0.5		
1.4	HQAM	1	0	21.82	22.00	21.86				
1.4	HQAM	1	3	21.82	21.74	21.78	23.5	0.5		
1.4	HQAM	1	5	21.72	21.76	21.75				
1.4	HQAM	3	1	21.74	21.87	21.74	23.5	0.5		
1.4	HQAM	3	3	21.71	21.69	21.75				
1.4	HQAM	1								



Band 38 Ant0 DSII2 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.06	23.19	23.04	24	0		
20	QPSK	1	49	23.00	23.08	22.93				
20	QPSK	1	99	23.01	23.04	22.91				
20	QPSK	50	0	23.05	23.08	23.00				
20	QPSK	50	24	22.87	22.85	22.87	24	0		
20	QPSK	50	50	23.00	23.08	23.03				
20	QPSK	100	0	22.98	23.05	22.97				
20	16QAM	1	0	22.98	23.05	22.97				
20	16QAM	1	49	22.92	23.07	22.95	24	0		
20	16QAM	1	99	22.86	23.03	23.01				
20	16QAM	50	0	22.93	23.06	22.95				
20	16QAM	50	24	22.98	23.12	23.05	24	0		
20	16QAM	50	50	23.01	23.08	23.03				
20	16QAM	100	0	22.92	23.06	22.97				
20	64QAM	1	0	22.97	23.15	22.99				
20	64QAM	1	49	22.94	23.05	22.99	24	0		
20	64QAM	1	99	23.06	23.13	22.98				
20	64QAM	50	0	22.87	23.00	22.97				
20	64QAM	50	24	23.05	23.11	23.07	24	0		
20	64QAM	50	50	23.06	23.09	22.94				
20	64QAM	100	0	22.97	23.07	23.02				
20	256QAM	1	0	20.93	20.99	20.84				
20	256QAM	1	49	20.84	20.98	20.85	22	2		
20	256QAM	1	99	21.01	21.06	20.91				
20	256QAM	50	0	20.97	21.08	20.94				
20	256QAM	50	24	21.06	21.11	20.97	22	2		
20	256QAM	50	50	20.95	21.05	20.91				
20	256QAM	100	0	20.96	21.07	20.92				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.91	23.08	22.89	24	0		
15	QPSK	1	37	22.85	23.04	22.76				
15	QPSK	1	74	22.90	22.86	22.76				
15	QPSK	36	0	22.86	23.02	22.85				
15	QPSK	36	20	22.78	22.90	22.72				
15	QPSK	36	39	22.85	23.01	22.83	24	0		
15	QPSK	75	0	22.93	23.01	22.88				
15	16QAM	1	0	22.81	22.85	22.87				
15	16QAM	1	37	22.88	22.98	22.90	24	0		
15	16QAM	1	74	22.72	22.87	22.98				
15	16QAM	36	0	22.86	22.89	22.78				
15	16QAM	36	20	22.94	22.95	23.02				
15	16QAM	36	39	22.92	23.04	22.97	24	0		
15	16QAM	75	0	22.79	23.01	22.89				
15	64QAM	1	0	22.81	23.01	22.85				
15	64QAM	1	37	22.83	23.01	22.89	24	0		
15	64QAM	1	74	22.93	23.01	22.94				
15	64QAM	36	0	22.89	23.02	22.83				
15	64QAM	36	20	22.99	23.02	23.05				
15	64QAM	36	39	22.98	23.04	22.85	24	0		
15	64QAM	75	0	22.82	22.99	22.98				
15	256QAM	1	0	20.77	20.94	20.68				
15	256QAM	1	37	20.75	20.82	20.76	22	2		
15	256QAM	1	74	20.86	20.91	20.77				
15	256QAM	36	0	20.91	20.84	20.83				
15	256QAM	36	20	20.99	21.08	20.81				
15	256QAM	36	39	20.86	20.88	20.77	22	2		
15	256QAM	75	0	20.82	21.03	20.86				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.99	23.02	22.89	24	0		
10	QPSK	1	25	22.88	23.03	22.86				
10	QPSK	1	49	22.96	22.93	22.84				
10	QPSK	25	0	22.95	22.97	22.84				
10	QPSK	25	12	22.81	22.77	22.82				
10	QPSK	25	25	22.92	22.95	22.84	24	0		
10	QPSK	50	0	22.87	22.94	22.90				
10	16QAM	1	0	22.91	22.88	22.86				
10	16QAM	1	25	22.76	22.81	22.89	24	0		
10	16QAM	1	49	22.79	22.99	22.95				
10	16QAM	25	0	22.90	22.99	22.78				
10	16QAM	25	12	22.86	23.08	22.98	24	0		
10	16QAM	25	25	22.94	22.91	22.92				
10	16QAM	50	0	22.75	22.89	22.91				
10	64QAM	1	0	22.80	23.04	22.91				
10	64QAM	1	25	22.79	22.81	22.86	24	0		
10	64QAM	1	49	22.93	23.02	22.89				
10	64QAM	25	0	22.72	22.97	22.94				
10	64QAM	25	12	22.88	23.00	22.95	24	0		
10	64QAM	25	25	22.89	23.07	22.77				
10	64QAM	50	0	22.79	22.95	22.94				
10	256QAM	1	0	20.80	20.87	20.71				
10	256QAM	1	25	20.72	20.84	20.72	22	2		
10	256QAM	1	49	20.97	20.87	20.75				
10	256QAM	25	0	20.93	21.04	20.90				
10	256QAM	25	12	20.95	20.98	20.85	22	2		
10	256QAM	25	25	20.82	20.88	20.86				
10	256QAM	50	0	20.82	21.00	20.82				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.05	23.15	22.94	24	0		
5	QPSK	1	12	22.87	22.96	22.80				
5	QPSK	1	24	22.85	22.92	22.83				
5	QPSK	12	0	22.96	23.03	22.84				
5	QPSK	12	7	22.77	22.79	22.78	24	0		
5	QPSK	12	13	22.88	22.89	22.86				
5	QPSK	25	0	22.96	22.96	22.87				
5	16QAM	1	0	22.92	22.89	22.82				
5	16QAM	1	12	22.75	23.05	22.88	24	0		
5	16QAM	1	24	22.76	22.92	22.86				
5	16QAM	12	0	22.80	22.91	22.81				
5	16QAM	12	7	22.86	23.02	23.01	24	0		
5	16QAM	12	13	22.83	22.92	22.89				
5	16QAM	25	0	22.74	23.00	22.84				
5	64QAM	1	0	22.94	23.10	22.84				
5	64QAM	1	12	22.91	22.93	22.90	24	0		
5	64QAM	1	24	22.91	23.06	22.82				
5	64QAM	12	0	22.70	22.98	22.88				
5	64QAM	12	7	22.97	22.96	23.04	24	0		
5	64QAM	12	13	22.94	22.94	22.76				
5	64QAM	25	0	22.81	22.89	22.91				
5	256QAM	1	0	20.71	20.85	20.68				
5	256QAM	1	12	20.74	20.86	20.74	22	2		
5	256QAM	1	24	20.86	21.02	20.85				
5	256QAM	12	0	20.85	21.03	20.88				
5	256QAM	12	7	20.97	21.01	20.94	22	2		
5	256QAM	12	13	20.86	21.01	20.78				
5	256QAM	25	0	20.82	20.91	20.75				

Band 38 HPUE Ant0 DSII2 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	25.45	25.62	25.55	27	0		
20	QPSK	1	49	25.45	25.56	25.46				
20	QPSK	1	99	25.40	25.51	25.38				
20	QPSK	50	0	25.45	25.59	25.49				
20	QPSK	50	24	25.49	25.53	25.43	27	0		
20	QPSK	50	50	25.51	25.55	25.40				
20	QPSK	100	0	25.54	25.60	25.57				
20	16QAM	1	0	25.55						



Band 41 PC3 Ant0 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				39780	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.91	23.04	23.20	22.98	22.79	24	0
20	QPSK	1	49	22.90	22.95	23.08	22.96	22.77		
20	QPSK	1	99	22.92	22.90	23.07	22.96	22.85		
20	QPSK	50	0	23.09	23.01	23.17	23.13	23.00		
20	QPSK	50	24	23.07	23.10	23.13	23.04	22.88	24	0
20	QPSK	50	90	23.07	23.08	23.12	23.08	22.99		
20	QPSK	100	0	23.11	23.02	23.16	23.13	22.98		
20	16QAM	1	0	23.05	22.99	23.12	22.94	22.88		
20	16QAM	1	49	22.90	22.94	23.07	23.04	22.88	24	0
20	16QAM	1	99	23.07	22.96	23.11	22.95	22.81		
20	16QAM	50	0	23.01	23.03	23.14	23.05	22.91		
20	16QAM	50	24	23.11	23.11	23.17	23.10	22.98	24	0
20	16QAM	50	90	23.03	23.05	23.09	23.04	22.78		
20	16QAM	100	0	22.93	23.00	23.11	23.00	22.78		
20	64QAM	1	0	22.97	22.89	23.06	22.98	22.78		
20	64QAM	1	49	23.14	23.01	23.17	23.13	22.84	24	0
20	64QAM	1	99	22.96	23.06	23.12	23.06	22.82		
20	64QAM	50	0	23.10	23.10	23.15	23.11	22.96		
20	64QAM	50	24	22.83	22.96	23.02	22.93	22.75	24	0
20	64QAM	50	90	22.98	22.99	23.10	23.00	22.80		
20	64QAM	100	0	23.15	23.11	23.18	23.16	22.91		
20	256QAM	1	0	21.05	21.05	21.16	20.99	20.91		
20	256QAM	1	49	21.05	21.05	21.12	21.02	20.88	22	2
20	256QAM	1	99	21.02	21.02	21.05	20.90	20.87		
20	256QAM	50	0	20.96	20.97	21.10	20.94	20.86		
20	256QAM	50	24	20.89	20.99	21.03	20.91	20.78	22	2
20	256QAM	50	90	21.14	21.06	21.14	21.11	20.91		
20	256QAM	100	0	21.14	21.12	21.19	21.16	20.99		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.85	22.93	23.08	22.88	22.73	24.00	0
15	QPSK	1	37	22.73	22.83	23.03	22.82	22.65		
15	QPSK	1	74	22.77	22.83	22.98	22.89	22.72		
15	QPSK	36	0	22.86	22.96	23.07	22.94	22.87		
15	QPSK	36	20	22.84	22.98	22.99	22.92	22.77	24	0
15	QPSK	36	39	23.02	22.91	23.03	22.98	22.87		
15	QPSK	75	0	23.01	22.88	23.03	22.95	22.94		
15	16QAM	1	0	22.96	22.95	23.05	22.91	22.77		
15	16QAM	1	37	22.77	22.76	22.94	22.87	22.75	24	0
15	16QAM	1	74	22.90	22.83	22.98	22.88	22.74		
15	16QAM	36	0	22.85	22.96	23.05	22.90	22.80		
15	16QAM	36	20	22.95	23.08	23.11	23.00	22.90	24	0
15	16QAM	36	39	22.94	23.02	22.96	22.95	22.83		
15	16QAM	75	0	22.91	22.97	22.94	22.91	22.72		
15	64QAM	1	0	22.88	22.77	23.00	22.84	22.70		
15	64QAM	1	37	23.03	22.85	23.14	23.10	22.80	24	0
15	64QAM	1	74	22.84	23.03	22.98	22.92	22.76		
15	64QAM	36	0	22.96	22.98	23.07	22.94	22.83		
15	64QAM	36	20	22.84	22.86	22.96	22.86	22.81	24	0
15	64QAM	36	39	22.90	22.93	23.06	22.86	22.72		
15	64QAM	75	0	23.02	22.99	23.01	22.99	22.81		
15	256QAM	1	0	20.88	21.02	21.01	20.88	20.76		
15	256QAM	1	37	20.97	20.96	20.96	20.87	20.75	22	2
15	256QAM	1	74	20.98	20.93	20.87	20.79	20.75		
15	256QAM	36	0	20.87	20.98	21.06	20.78	20.68		
15	256QAM	36	20	20.85	20.88	21.00	20.75	20.72	22	2
15	256QAM	36	39	20.98	20.90	20.97	20.93	20.78		
15	256QAM	75	0	21.03	20.97	21.04	20.98	20.85		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.81	23.02	23.06	22.83	22.64	24.00	0
10	QPSK	1	25	22.80	22.78	22.92	22.85	22.75		
10	QPSK	1	49	22.75	22.75	22.92	22.82	22.68		
10	QPSK	25	0	22.95	22.83	23.01	23.01	22.87		
10	QPSK	25	12	22.94	23.04	22.95	22.93	22.74	24	0
10	QPSK	25	25	23.04	22.98	23.07	23.04	22.71		
10	QPSK	50	0	23.04	22.89	23.05	22.98	22.83		
10	16QAM	1	0	22.99	22.87	22.95	22.83	22.83		
10	16QAM	1	25	22.82	22.79	23.04	22.79	22.72	24	0
10	16QAM	1	49	23.02	22.82	22.98	22.92	22.69		
10	16QAM	25	0	22.90	22.94	22.99	22.91	22.88		
10	16QAM	25	12	23.01	22.96	23.05	23.04	22.85	24	0
10	16QAM	25	25	22.86	22.95	23.00	22.95	22.83		
10	16QAM	50	0	22.90	22.96	23.03	22.92	22.72		
10	64QAM	1	0	22.93	22.76	22.98	22.90	22.72		
10	64QAM	1	25	23.00	22.96	23.13	23.10	22.71	24	0
10	64QAM	1	49	22.85	22.91	23.02	22.95	22.72		
10	64QAM	25	0	22.98	23.04	22.97	22.99	22.92		
10	64QAM	25	12	22.87	22.79	22.98	22.86	22.68	24	0
10	64QAM	25	25	22.88	22.93	22.97	22.92	22.70		
10	64QAM	50	0	23.11	23.06	23.12	23.00	22.87		
10	256QAM	1	0	20.92	20.99	20.98	20.82	20.84		
10	256QAM	1	25	21.00	20.88	20.95	20.87	20.71	22	2
10	256QAM	1	49	20.89	20.87	20.93	20.72	20.76		
10	256QAM	25	0	20.80	20.84	20.97	20.88	20.72		
10	256QAM	25	12	20.73	20.85	20.89	20.89	20.63	22	2
10	256QAM	25	25	20.98	21.03	20.98	20.98	20.76		
10	256QAM	50	0	21.02	21.02	21.03	21.07	20.85		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2543.3	2593	2638.0	2683.5		
5	QPSK	1	0	22.81	22.92	23.16	22.85	22.71	24.00	0
5	QPSK	1	12	22.85	22.82	22.94	22.90	22.68		
5	QPSK	1	24	22.83	22.76	22.98	22.86	22.76		
5	QPSK	12	0	22.99	22.88	23.06	23.02	22.93		
5	QPSK	12	7	22.95	22.93	23.10	22.91	22.71	24	0
5	QPSK	12	13	23.00	23.05	23.08	22.96	22.83		
5	QPSK	25	0	23.00	22.95	23.06	23.11	22.94		
5	16QAM	1	0	22.87	22.84	23.01	22.85	22.72		
5	16QAM	1	12	22.80	22.77	23.00	22.96	22.78	24	0
5	16QAM	1	24	22.90	22.94	22.96	22.89	22.65		
5	16QAM	12	0	22.89	22.89	23.05	22.95	22.76		
5	16QAM	12	7	22.99	22.93	23.02	23.00	22.90	24	0
5	16QAM	12	13	22.87	22.88	22.96	22.87	22.71		
5	16QAM	25	0	22.79	22.93	23.00	22.86	22.81		
5	64QAM	1	0	22.86	22.77	23.01	22.86	22.73		
5	64QAM	1	12	22.99	22.99	23.03	23.10	22.74	24	0
5	64QAM	1	24	22.93	22.98	22.99	22.92	22.70		
5	64QAM	12	0	23.05	22.99	23.08	23.08	22.85		
5	64QAM	12	7	22.82	22.89	22.94	22.89	22.62	24	0
5	64QAM	12	13	22.86	22.84	23.05	22.82	22.73		
5	64QAM	25	0	23.12	23.00	23.05	23.03	22.84		
5	256QAM	1	0	21.02	21.03	21.14	20.90	20.81		
5	256QAM	1	12	20.96	20.88	20.96	20.92	20.80	22	2
5	256QAM	1	24	20.93	20.94	20.93	20.81	20.73		



GSM850 Ant1 DS2 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	833.4	843.2	824.2	833.4	843.2		
GSM 1 Tx slot	32.03	32.09	31.88	33.50	23.03	23.09	22.88	24.50
GPRS 1 Tx slot	31.98	32.04	31.73	33.50	22.95	23.04	22.73	24.50
GPRS 2 Tx slots	28.98	29.01	28.89	30.50	22.98	23.01	22.89	24.50
GPRS 3 Tx slots	28.75	28.79	28.73	28.70	22.49	22.53	22.47	24.44
GPRS 4 Tx slots	25.72	26.85	25.48	27.00	22.72	22.85	22.48	24.00
EDGE 1 Tx slot	25.14	25.27	24.92	26.50	16.14	16.27	15.92	17.50
EDGE 2 Tx slots	23.45	23.54	23.22	25.00	17.45	17.54	17.22	19.00
EDGE 3 Tx slots	22.18	22.28	21.92	23.50	17.92	18.02	17.68	19.24
EDGE 4 Tx slots	20.14	20.24	20.07	22.00	17.14	17.24	17.07	19.00

GSM1900 Ant1 DS2 Standalone								
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)	1820.2	1890	1938.8	1820.2	1890	1938.8		
GSM 1 Tx slot	25.64	25.86	25.71	26.90	16.64	16.86	16.71	17.90
GPRS 1 Tx slot	25.53	25.77	25.84	26.90	16.53	16.77	16.64	17.90
GPRS 2 Tx slots	22.53	22.70	22.53	23.90	16.53	16.70	16.53	17.90
GPRS 3 Tx slots	20.75	20.94	20.94	22.10	16.49	16.66	16.58	17.84
GPRS 4 Tx slots	19.94	19.97	19.93	20.90	16.94	16.97	16.93	17.90
EDGE 1 Tx slot	24.13	24.36	24.24	25.00	15.13	15.36	15.24	16.00
EDGE 2 Tx slots	22.48	22.76	22.61	23.50	16.48	16.76	16.61	17.50
EDGE 3 Tx slots	20.86	20.83	20.70	22.10	16.40	16.57	16.44	17.84
EDGE 4 Tx slots	19.68	19.31	19.21	20.00	16.08	16.31	16.21	17.00

Band	WCDMA II Ant1 DS2 Standalone			Tune-up Limit (dBm)	WCDMA IV Ant1 DS2 Standalone			WCDMA V Ant1 DS2 Standalone			Tune-up Limit (dBm)		
	9292	9490	9538		1312	1413	1513	4132	4182	4233			
TX Channel	9662	9990	9938	1537	1638	1738	4367	4467	4468				
Rx Channel	9524	1860	1907.6	1724	1732.6	1752.6	426.4	436.4	446.6				
Frequency (MHz)	1924	1860	1907.6	1724	1732.6	1752.6	426.4	436.4	446.6				
SCPP Rel 99	AMR 12.2Kbps	17.64	17.70	17.41	18.80	18.85	16.88	16.84	17.80	22.31	22.41	22.14	23.20
SCPP Rel 99	RM-C 12.2Kbps	17.66	17.72	17.42	18.80	18.87	16.71	16.57	17.80	22.32	22.43	22.17	23.20
SCPP Rel 6	HSDPA Subtest-1	16.63	16.80	16.49	17.80	15.60	15.74	15.46	16.80	21.22	21.41	21.12	22.20
SCPP Rel 6	HSDPA Subtest-2	16.74	16.83	16.40	17.80	15.60	15.74	15.63	16.80	21.22	21.36	21.12	22.20
SCPP Rel 6	HSDPA Subtest-3	16.11	16.40	15.95	17.30	14.94	15.31	14.91	16.30	20.66	20.95	20.54	21.70
SCPP Rel 6	HSDPA Subtest-4	16.21	16.25	16.01	17.30	15.11	15.17	15.16	16.30	20.82	20.76	20.89	21.70
SCPP Rel 6	DC-HSDPA Subtest-1	16.47	16.64	16.33	17.80	15.39	15.57	15.36	16.80	21.00	21.40	21.12	22.20
SCPP Rel 6	DC-HSDPA Subtest-2	16.74	16.70	16.24	17.80	15.44	15.71	15.42	16.80	21.02	21.20	20.96	22.20
SCPP Rel 6	DC-HSDPA Subtest-3	16.07	16.20	15.93	17.30	14.93	15.19	14.78	16.30	20.57	20.79	20.43	21.70
SCPP Rel 6	DC-HSDPA Subtest-4	16.10	16.15	15.92	17.30	14.98	15.13	14.96	16.30	20.66	20.96	20.56	21.70
SCPP Rel 6	HSUPA Subtest-1	16.26	16.46	16.32	17.80	15.39	15.74	15.42	16.80	21.18	21.32	21.04	22.20
SCPP Rel 6	HSUPA Subtest-2	14.48	14.47	14.24	16.80	13.63	13.72	13.40	14.80	19.12	19.45	19.06	20.20
SCPP Rel 6	HSUPA Subtest-3	15.38	15.56	15.15	16.80	14.51	14.78	14.42	15.80	20.13	20.41	19.96	21.20
SCPP Rel 6	HSUPA Subtest-4	14.43	14.53	14.19	16.80	13.51	13.66	13.54	14.80	19.18	19.48	19.04	20.20
SCPP Rel 6	HSUPA Subtest-5	16.37	16.65	16.17	17.80	15.45	15.84	15.36	16.80	21.06	21.12	21.00	22.20



Band 12 Ant1 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.76	22.71				
10	QPSK	1	25	22.62	22.82	22.82	24	0		
10	QPSK	1	49	22.65	22.82	22.84				
10	QPSK	25	0	22.66	22.75	22.83				
10	QPSK	25	25	22.63	22.74	22.80	24	0		
10	QPSK	25	25	22.56	22.68	22.58				
10	QPSK	50	0	22.83	22.72	22.69				
10	QPSK	50	0	22.83	22.74	22.80				
10	QPSK	1	25	22.58	22.53	22.56	24	0		
10	16QAM	1	49	22.43	22.47	22.54				
10	16QAM	25	0	22.22	22.32	22.18				
10	16QAM	25	12	22.18	22.19	22.13	23.5	0.5		
10	16QAM	25	25	22.19	22.11	22.15				
10	16QAM	50	0	22.22	22.29	22.23				
10	16QAM	1	25	22.13	22.07	22.15	23.5	0.5		
10	16QAM	1	49	22.11	22.12	22.10				
10	16QAM	25	0	21.22	21.28	21.24				
10	16QAM	25	12	21.18	21.16	21.19	22.5	1.5		
10	16QAM	25	25	21.23	21.23	21.24				
10	16QAM	50	0	21.15	21.28	21.18				
10	256QAM	1	0	19.29	19.24	19.13				
10	256QAM	1	25	19.07	19.12	19.07	20.5	3.5		
10	256QAM	1	49	19.06	19.05	19.02				
10	256QAM	25	0	19.23	19.21	19.21				
10	256QAM	25	12	19.18	19.25	19.27	20.5	3.5		
10	256QAM	25	25	19.32	19.25	19.23				
10	256QAM	50	0	19.03	19.05	19.11				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.26	22.48	22.57				
5	QPSK	1	24	22.43	22.48	22.34	24	0		
5	QPSK	12	0	22.31	22.37	22.36				
5	QPSK	12	7	22.45	22.35	22.35	24	0		
5	QPSK	12	13	22.49	22.63	22.51				
5	QPSK	25	0	22.29	22.48	22.41				
5	16QAM	1	24	22.14	22.11	22.00	24	0		
5	16QAM	1	12	22.45	22.43	22.44	24	0		
5	16QAM	1	24	22.22	22.23	22.29				
5	16QAM	12	7	22.05	22.04	22.06	23.5	0.5		
5	16QAM	12	13	22.09	22.07	22.06				
5	16QAM	25	0	22.12	22.18	22.11				
5	16QAM	1	0	22.08	22.24	22.17	23.5	0.5		
5	16QAM	1	24	22.01	22.03	22.03	24	0		
5	16QAM	12	0	21.09	21.23	21.17				
5	16QAM	12	7	21.06	21.03	21.05	22.5	1.5		
5	16QAM	12	13	21.15	21.05	21.10				
5	16QAM	25	0	21.09	21.17	21.03				
5	256QAM	1	0	19.23	19.23	19.26				
5	256QAM	1	24	19.23	19.08	19.04	20.5	3.5		
5	256QAM	1	12	19.23	19.08	19.04				
5	256QAM	12	7	19.22	19.16	19.14	20.5	3.5		
5	256QAM	12	13	19.22	19.16	19.14				
5	256QAM	25	0	19.03	19.14	19.11				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.44	22.67	22.52				
1.4	QPSK	1	5	22.41	22.58	22.36	24	0		
1.4	QPSK	3	0	22.53	22.60	22.57				
1.4	QPSK	3	1	22.45	22.61	22.57	24	0		
1.4	QPSK	3	7	22.49	22.62	22.48				
1.4	16QAM	1	0	22.35	22.33	22.41	24	0		
1.4	16QAM	1	3	22.29	22.68	22.55				
1.4	16QAM	1	3	22.49	22.38	22.43	24	0		
1.4	16QAM	1	5	22.35	22.33	22.41				
1.4	16QAM	3	0	22.60	22.69	22.54	24	0		
1.4	16QAM	3	1	22.63	22.45	22.56				
1.4	16QAM	3	7	22.56	22.47	22.60	23.5	0.5		
1.4	16QAM	6	0	22.14	22.23	22.08	23.5	0.5		
1.4	16QAM	1	0	22.10	22.16	22.15				
1.4	16QAM	1	5	22.02	22.02	22.05	23.5	0.5		
1.4	16QAM	1	5	22.02	22.08	21.95				
1.4	16QAM	3	0	22.13	22.15	22.14				
1.4	16QAM	3	22	22.09	22.07	22.05	22.5	1.5		
1.4	256QAM	1	0	19.10	19.19	19.14				
1.4	256QAM	1	3	19.07	19.14	19.05	20.5	3.5		
1.4	256QAM	1	3	19.07	19.02	19.02				
1.4	256QAM	3	0	19.19	19.11	19.12	20.5	3.5		
1.4	256QAM	3	0	19.05	19.21	19.12				

Band 13 Ant1 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Int. (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.22	22.21	22.21				
10	QPSK	1	25	22.18	22.21	22.21	23	0		
10	QPSK	1	49	22.14	22.14	22.14				
10	QPSK	25	0	22.23	22.18	22.18				
10	QPSK	25	25	22.08	22.14	22.14	23	0		
10	QPSK	50	0	22.15	22.15	22.15				
10	16QAM	1	25	22.13	22.13	22.13	23	0		
10	16QAM	1	49	22.05	22.05	22.05				
10	16QAM	25	12	21.82	21.10	21.07	23	0		
10	16QAM	25	25	21.86	21.86	21.86				
10	16QAM	50	0	21.89	21.89	21.89				
10	16QAM	1	0	21.89	21.89	21.89				
10	16QAM	1	25	21.84	21.84	21.84	22	1		
10	16QAM	25	0	20.74	20.74	20.74				
10	16QAM	25	12	20.83	20.83	20.83				
10	16QAM	25	25	20.85	20.85	20.85				
10	16QAM	50	0	20.80	20.80	20.80				
10	256QAM	1	0	18.79	18.79	18.79				
10	256QAM	1	49	18.52	18.52	18.52	20	3		
10	256QAM	25	0	18.52	18.52	18.52				
10	256QAM	25	12	18.63	18.63	18.63				
10	256QAM	25	25	18.71	18.71	18.71				
10	256QAM	50	0	18.63	18.63	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.12	22.21	22.08				
5	QPSK	1	24	21.92	22.07	22.03	23	0		
5	QPSK	12	0	22.08	22.12	22.01				
5	QPSK	12	7	21.97	22.07	21.98	23	0		
5	QPSK	12	13	22.02	21.95	21.93				
5	QPSK	25	0	21.97	22.00	21.97				
5	16QAM	1	24	21.85	22.20	22.05	23.4	0.4		
5	16QAM	1	12	21.97	22.08	21.96				
5	16QAM	1	24	21.89	21.89	21.89				
5	16QAM	12	7	21.45	21.53	21.44	23	0		
5	16QAM	12	13	21.50	21.50	21.50				
5	16QAM	25	0	21.59	21.80	21.66				
5	16QAM	1	0	21.75	21.82	21.79	23	0		
5	16QAM	1	24	21.59	21.68	21.56	23	0		
5	16QAM	12	0	20.51	20.60	20.63				
5	16QAM	12	7	20.30	20.40	20.38	22	1		
5	16QAM	12	13	20.47	20.51	20.45				
5	16QAM	25	0	20.62	20.73	20.58				
5	256QAM	1	0	18.67	18.73	18.60				
5	256QAM	1	12	18.36	18.40	18.40	20	3		
5	256QAM	1	24	18.38	18.43	18.40				
5	256QAM	12	0	18.58	18.63	18.65				
5	256QAM	12	7	18.47	18.48	18.49	20	3		
5	256QAM	12	13	18.58	18.56	18.49				
5	256QAM	25	0	18.63	18.71	18.65				

Band 17 Ant1 DS12 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Int. (min)	MFR (dB)		



Band 26 Ant1 DS12 Standalone										
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
				811.5	811.5	811.5				
15	QPSK	1	0	22.52	22.57	22.51	23.5	0		
15	QPSK	1	74	22.48	22.55	22.41				
15	QPSK	36	0	22.50	22.55	22.54				
15	QPSK	36	20	22.35	22.42	22.38				
15	QPSK	36	39	22.39	22.49	22.42				
15	QPSK	75	0	22.30	22.45	22.33				
15	HQAM	1	0	22.54	22.54	22.50				
15	HQAM	1	37	22.37	22.42	22.39	23.5	0		
15	HQAM	1	74	22.32	22.51	22.45				
15	HQAM	36	0	22.03	22.08	21.98				
15	HQAM	36	20	21.81	21.84	21.82				
15	HQAM	36	39	21.91	21.89	21.90				
15	HQAM	75	0	21.98	22.05	21.95				
15	HQAM	1	0	22.01	22.12	22.01				
15	HQAM	1	37	21.92	21.91	21.87	23.5	0		
15	HQAM	1	74	21.89	21.90	21.84				
15	HQAM	36	0	21.06	21.10	21.07				
15	HQAM	36	20	21.02	21.14	21.06				
15	HQAM	36	39	21.10	21.08	21.09				
15	HQAM	75	0	20.88	20.99	20.87	22.5	1		
15	HQAM	1	0	18.01	18.09	18.05				
15	HQAM	1	37	18.87	18.84	18.87	20.5	3		
15	HQAM	1	74	18.92	18.90	18.91				
15	HQAM	36	0	18.91	18.93	18.92				
15	HQAM	36	20	19.01	19.00	19.07				
15	HQAM	36	39	18.98	19.02	18.91				
15	HQAM	75	0	18.84	18.91	18.88				
Channel										
				26740	26883	26950	Turn-up Int. (dB)	MPE (dB)		
10	QPSK	1	0	22.32	22.31	22.41	23.5	0		
10	QPSK	1	20	22.33	22.43	22.41				
10	QPSK	1	49	22.43	22.45	22.30				
10	QPSK	25	0	22.40	22.48	22.48				
10	QPSK	25	12	22.28	22.48	22.27				
10	QPSK	25	25	22.32	22.45	22.27				
10	HQAM	1	0	24.17	22.27	22.25				
10	HQAM	1	0	22.40	22.26	22.25				
10	HQAM	1	25	22.22	22.27	22.30	23.5	0		
10	HQAM	1	49	21.91	21.99	21.91				
10	HQAM	25	0	21.95	21.97	21.91				
10	HQAM	25	12	21.75	21.76	21.74				
10	HQAM	25	25	21.72	21.72	21.69				
10	HQAM	50	0	21.88	21.96	21.88				
10	HQAM	1	0	21.88	22.08	21.96				
10	HQAM	1	25	21.88	21.79	21.73	23.5	0		
10	HQAM	1	49	21.83	21.81	21.87				
10	HQAM	25	0	20.94	21.05	20.94				
10	HQAM	25	12	20.87	21.08	20.88				
10	HQAM	25	25	20.98	21.04	20.95				
10	HQAM	50	0	20.78	20.93	20.82				
10	HQAM	1	0	18.91	18.96	18.95				
10	HQAM	1	25	18.79	18.75	18.83	20.5	3		
10	HQAM	1	49	18.81	18.86	18.86				
10	HQAM	25	0	18.86	18.86	18.83				
10	HQAM	25	12	18.93	18.92	18.94				
10	HQAM	25	25	18.92	18.88	18.87				
10	HQAM	50	0	18.71	18.88	18.84				
Channel										
				26715	26883	27015	Turn-up Int. (dB)	MPE (dB)		
5	QPSK	1	0	22.12	22.19	22.40	23.5	0		
5	QPSK	1	12	22.28	22.44	22.41				
5	QPSK	1	12	22.44	22.47	22.35				
5	QPSK	12	0	22.29	22.31	22.29				
5	QPSK	12	7	22.29	22.31	22.25				
5	QPSK	12	13	22.27	22.37	22.38				
5	QPSK	25	0	22.40	22.40	22.35				
5	HQAM	1	0	22.46	22.49	22.55				
5	HQAM	1	12	22.34	22.33	22.33	23.5	0		
5	HQAM	1	24	22.01	22.09	21.99				
5	HQAM	12	0	21.99	21.99	21.89				
5	HQAM	12	7	21.78	21.79	21.73				
5	HQAM	12	13	21.76	21.76	21.63				
5	HQAM	25	0	21.88	21.91	21.82				
5	HQAM	1	0	21.94	22.07	21.93				
5	HQAM	1	12	21.88	21.72	21.61	23.5	0		
5	HQAM	1	24	21.85	21.81	21.81				
5	HQAM	12	0	21.00	20.99	20.98				
5	HQAM	12	7	20.95	21.10	21.01				
5	HQAM	12	13	21.06	20.95	20.95				
5	HQAM	25	0	20.74	20.89	20.80				
5	HQAM	1	0	18.87	18.96	18.81				
5	HQAM	1	12	18.73	18.70	18.78	20.5	3		
5	HQAM	1	24	18.89	18.76	18.77				
5	HQAM	12	0	18.85	18.94	18.87				
5	HQAM	12	7	18.89	18.95	18.87				
5	HQAM	12	13	18.94	18.88	18.78				
5	HQAM	25	0	18.75	18.81	18.73				
Channel										
				26705	26883	27025	Turn-up Int. (dB)	MPE (dB)		
3	QPSK	1	0	22.15	22.13	22.40	23.5	0		
3	QPSK	1	8	22.31	22.38	22.27				
3	QPSK	1	14	22.41	22.44	22.40				
3	QPSK	8	0	22.36	22.46	22.48				
3	QPSK	8	4	22.31	22.35	22.26				
3	QPSK	8	7	22.24	22.46	22.37				
3	HQAM	1	0	22.18	22.41	22.23				
3	HQAM	1	0	22.44	22.54	22.63				
3	HQAM	1	8	22.27	22.31	22.28	23.5	0		
3	HQAM	1	14	22.26	22.45	22.45				
3	HQAM	8	0	21.99	22.04	21.88				
3	HQAM	8	4	21.71	21.76	21.71				
3	HQAM	8	7	21.77	21.76	21.63				
3	HQAM	15	0	21.86	21.95	21.87				
3	HQAM	1	0	21.90	22.05	21.83				
3	HQAM	1	8	21.79	21.74	21.62	23.5	0		
3	HQAM	1	14	21.80	21.82	21.82				
3	HQAM	8	0	21.01	21.01	20.92				
3	HQAM	8	4	20.90	21.02	20.90				
3	HQAM	8	7	20.98	21.03	20.90				
3	HQAM	15	0	20.83	20.89	20.79				
3	HQAM	1	0	18.88	18.94	18.83				
3	HQAM	1	8	18.81	18.72	18.75	20.5	3		
3	HQAM	1	14	18.94	18.94	18.86				
3	HQAM	8	0	18.95	18.96	18.84				
3	HQAM	8	4	18.98	18.95	18.92				
3	HQAM	8	7	18.93	18.93	18.85				
3	HQAM	15	0	18.80	18.83	18.83				
Channel										
				26697	26883	27033	Turn-up Int. (dB)	MPE (dB)		
1.4	QPSK	1	0	22.50	22.51	22.40	23.5	0		
1.4	QPSK	1	3	22.29	22.38	22.31				
1.4	QPSK	1	5	22.45	22.43	22.33				
1.4	QPSK	3	0	22.46	22.56	22.48				
1.4	QPSK	3	1	22.32	22.31	22.39				
1.4	QPSK	3	3	22.25	22.37	22.36				
1.4	QPSK	3	1	22.55	22.39	22.21				
1.4	HQAM	1	0	22.49	22.50	22.49				
1.4	HQAM	1	3	22.32	22.26	22.27	23.5	0		
1.4	HQAM	1	5	22.21	22.37	22.37				
1.4	HQAM	3	0	22.47	22.50	22.38				
1.4	HQAM	3	1	22.22	22.22	22.28				
1.4	HQAM	3	3	22.34	22.39	22.25				
1.4	HQAM	6	0	21.86	22.01	21.91	23.5	0		
1.4	HQAM	1	0	21.90	22.01	21.94				
1.4	HQAM	1	3	21.80	21.97	21.82				



Band 38 ANT1 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	18.09	18.17	18.13	19.6	0		
20	QPSK	1	49	17.99	18.10	18.02				
20	QPSK	1	99	17.95	18.12	17.96	19.6	0		
20	QPSK	50	0	18.01	18.13	18.04				
20	QPSK	50	24	18.01	18.09	18.06	19.6	0		
20	QPSK	50	50	17.93	18.03	17.94				
20	QPSK	100	0	17.91	18.07	18.04	19.6	0		
20	16QAM	1	0	18.03	18.13	18.06				
20	16QAM	1	49	18.07	18.14	18.04	19.6	0		
20	16QAM	1	99	17.93	18.05	17.97				
20	16QAM	50	0	17.95	18.12	18.06	19.6	0		
20	16QAM	50	24	17.94	18.06	18.02				
20	16QAM	50	50	17.91	18.08	17.90	19.6	0		
20	16QAM	100	0	17.91	18.08	18.04				
20	64QAM	1	0	17.91	18.05	18.02	19.6	0		
20	64QAM	1	49	17.84	17.99	17.92				
20	64QAM	1	99	18.12	18.15	18.06	19.6	0		
20	64QAM	50	0	17.94	18.09	18.03				
20	64QAM	50	24	18.01	18.11	17.99	19.6	0		
20	64QAM	50	50	18.05	18.14	17.99				
20	64QAM	100	0	17.99	18.13	18.06	19.6	0		
20	256QAM	1	0	17.82	17.97	17.87				
20	256QAM	1	49	17.89	17.92	17.79	19.6	0		
20	256QAM	1	99	17.91	17.94	17.81				
20	256QAM	50	0	17.82	17.96	17.93	19.6	0		
20	256QAM	50	24	17.92	17.96	17.85				
20	256QAM	50	50	17.77	17.85	17.79	19.6	0		
20	256QAM	100	0	17.88	17.94	17.87				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	17.94	18.01	18.04	19.6	0		
15	QPSK	1	37	17.86	18.05	17.87				
15	QPSK	1	74	17.79	18.08	17.83	19.6	0		
15	QPSK	36	0	17.84	18.04	17.99				
15	QPSK	36	20	17.89	18.04	17.91	19.6	0		
15	QPSK	36	39	17.85	17.98	17.81				
15	QPSK	75	0	17.87	17.83	17.92	19.6	0		
15	16QAM	1	0	18.01	17.95	17.98				
15	16QAM	1	37	18.02	18.08	17.96	19.6	0		
15	16QAM	1	74	17.84	17.91	17.89				
15	16QAM	36	0	17.84	18.04	18.02	19.6	0		
15	16QAM	36	20	17.88	17.96	17.94				
15	16QAM	36	39	17.84	18.02	17.79	19.6	0		
15	16QAM	75	0	17.74	17.99	18.00				
15	64QAM	1	0	17.76	18.01	17.95	19.6	0		
15	64QAM	1	37	17.80	17.83	17.87				
15	64QAM	1	74	18.07	18.02	17.88	19.6	0		
15	64QAM	36	0	17.77	18.04	17.99				
15	64QAM	36	20	17.83	17.98	17.93	19.6	0		
15	64QAM	36	39	17.99	18.06	17.92				
15	64QAM	75	0	17.94	18.00	17.92	19.6	0		
15	256QAM	1	0	17.75	17.81	17.80				
15	256QAM	1	37	17.84	17.76	17.88	19.6	0		
15	256QAM	1	74	17.76	17.89	17.86				
15	256QAM	36	0	17.71	17.84	17.81	19.6	0		
15	256QAM	36	20	17.77	17.93	17.74				
15	256QAM	36	39	17.70	17.78	17.73	19.6	0		
15	256QAM	75	0	17.80	17.77	17.82				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	18.07	18.12	18.00	19.6	0		
10	QPSK	1	25	17.98	17.98	17.98				
10	QPSK	1	49	17.89	18.08	17.82	19.6	0		
10	QPSK	25	0	17.94	18.01	17.90				
10	QPSK	25	12	17.97	17.96	17.88	19.6	0		
10	QPSK	25	25	17.90	17.96	17.88				
10	QPSK	50	0	17.76	18.02	17.98	19.6	0		
10	16QAM	1	0	17.88	17.88	17.93				
10	16QAM	1	25	18.04	17.98	17.98	19.6	0		
10	16QAM	1	49	17.75	17.97	17.83				
10	16QAM	25	0	17.91	18.10	18.03	19.6	0		
10	16QAM	25	12	17.90	17.94	17.95				
10	16QAM	25	25	17.81	17.98	17.85	19.6	0		
10	16QAM	50	0	17.83	18.00	18.01				
10	64QAM	1	0	17.75	17.85	17.95	19.6	0		
10	64QAM	1	25	17.74	17.83	17.81				
10	64QAM	1	49	18.02	17.99	17.90	19.6	0		
10	64QAM	25	0	17.87	18.00	17.97				
10	64QAM	25	12	17.84	18.03	17.88	19.6	0		
10	64QAM	25	25	17.93	18.03	17.87				
10	64QAM	50	0	17.92	17.97	17.96	19.6	0		
10	256QAM	1	0	17.73	17.80	17.81				
10	256QAM	1	25	17.74	17.85	17.89	19.6	0		
10	256QAM	1	49	17.77	17.80	17.83				
10	256QAM	25	0	17.74	17.88	17.80	19.6	0		
10	256QAM	25	12	17.89	17.91	17.78				
10	256QAM	25	25	17.71	17.82	17.66	19.6	0		
10	256QAM	50	0	17.80	17.79	17.83				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	18.01	18.05	18.08	19.6	0		
5	QPSK	1	12	17.89	18.07	17.98				
5	QPSK	1	24	17.86	18.08	17.82	19.6	0		
5	QPSK	12	0	17.96	18.08	17.92				
5	QPSK	12	7	17.98	18.06	18.00	19.6	0		
5	QPSK	12	13	17.85	17.96	17.92				
5	QPSK	25	0	17.76	17.82	17.96	19.6	0		
5	16QAM	1	0	17.93	18.08	18.01				
5	16QAM	1	12	18.02	18.03	17.87	19.6	0		
5	16QAM	1	24	17.78	18.03	17.80				
5	16QAM	12	0	17.78	17.97	17.99	19.6	0		
5	16QAM	12	7	17.78	17.98	17.95				
5	16QAM	12	13	17.79	18.04	17.76	19.6	0		
5	16QAM	25	0	17.83	17.83	17.99				
5	64QAM	1	0	17.85	17.97	17.87	19.6	0		
5	64QAM	1	12	17.88	17.93	17.82				
5	64QAM	1	24	18.09	18.13	17.89	19.6	0		
5	64QAM	12	0	17.83	17.99	17.87				
5	64QAM	12	7	17.86	17.97	17.82	19.6	0		
5	64QAM	12	13	17.96	18.04	17.92				
5	64QAM	25	0	17.96	18.03	17.98	19.6	0		
5	256QAM	1	0	17.79	17.92	17.74				
5	256QAM	1	12	17.75	17.74	17.62	19.6	0		
5	256QAM	1	24	17.81	17.81	17.63				
5	256QAM	12	0	17.78	17.88	17.76	19.6	0		
5	256QAM	12	7	17.84	17.80	17.71				
5	256QAM	12	13	17.73	17.92	17.72	19.6	0		
5	256QAM	25	0	17.72	17.87	17.78				

Band 38 HPUE ANT1 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	19.27	19.32	19.24	21.2	0		
20	QPSK	1	49	19.31	19.20	19.24				
20	QPSK	1	99	19.25	19.22	19.24	21.2	0		
20	QPSK	50	0	19.20	19.30	19.22				
20	QPSK	50	24	19.25	19.27	19.28	21.2	0		
20	QPSK	50	50	19.29	19.29	19.25				
20	QPSK	100	0	19.28	19.29	19.21	21.2	0		
20	16QAM	1	0	19.31	19.31	19.29				
20	16QAM	1	49	19.21	19.24	19.30	21.2	0		
20	16QAM	1	99	19.27	19.27	19.24				



Band 41 PC3 Ant1 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				39760	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	18.01	17.91	18.25	17.92	17.88	19.6	0
20	QPSK	1	49	18.03	17.98	18.17	17.93	17.85		
20	QPSK	1	99	17.99	17.85	18.07	17.76	17.80		
20	QPSK	50	0	18.12	17.94	18.21	17.98	17.93		
20	QPSK	50	24	18.05	17.99	18.12	17.89	17.89	19.6	0
20	QPSK	50	90	17.89	17.92	18.10	18.01	17.93		
20	QPSK	100	0	17.94	17.85	18.10	17.94	17.78		
20	16QAM	1	0	17.94	17.85	18.08	17.90	17.79		
20	16QAM	1	49	18.12	18.03	18.21	17.90	17.89	19.6	0
20	16QAM	1	99	17.98	17.93	18.18	17.98	17.80		
20	16QAM	50	0	18.06	18.03	18.15	17.88	17.80		
20	16QAM	50	24	18.04	18.08	18.22	17.91	17.93	19.6	0
20	16QAM	50	90	17.89	17.92	18.10	17.80	17.80		
20	16QAM	100	0	17.93	17.83	18.11	17.87	17.88		
20	64QAM	1	0	18.07	18.07	18.21	18.00	17.96		
20	64QAM	1	49	18.09	18.06	18.22	17.97	17.92	19.6	0
20	64QAM	1	99	18.04	17.92	18.14	17.91	17.78		
20	64QAM	50	0	18.12	17.98	18.21	17.97	17.84		
20	64QAM	50	24	18.09	17.98	18.18	18.00	17.89	19.6	0
20	64QAM	50	90	18.06	18.08	18.23	18.05	18.01		
20	64QAM	100	0	18.05	17.99	18.12	17.81	17.79		
20	256QAM	1	0	17.85	17.78	18.01	17.81	17.72		
20	256QAM	1	49	17.77	17.83	17.98	17.78	17.73	19.6	0
20	256QAM	1	99	17.90	17.92	18.09	17.88	17.81		
20	256QAM	50	0	17.88	17.91	18.04	17.82	17.69		
20	256QAM	50	24	17.91	17.85	18.06	17.86	17.77	19.6	0
20	256QAM	50	90	17.89	17.92	18.10	17.80	17.80		
20	256QAM	100	0	17.87	17.82	18.08	17.91	17.79		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.92	17.74	18.10	17.74	17.73	19.60	0
15	QPSK	1	37	17.91	17.82	18.11	17.82	17.68		
15	QPSK	1	74	17.83	17.76	17.94	17.73	17.72		
15	QPSK	36	0	17.84	17.78	18.12	17.85	17.78	19.6	0
15	QPSK	36	20	18.00	17.92	18.09	17.71	17.79		
15	QPSK	36	39	17.86	17.88	18.07	17.94	17.79		
15	QPSK	75	0	17.77	17.74	18.03	17.88	17.72	19.6	0
15	16QAM	1	0	17.90	17.67	18.05	17.77	17.75		
15	16QAM	1	37	18.04	17.94	18.09	17.83	17.80	19.6	0
15	16QAM	1	74	17.89	17.78	18.01	17.81	17.72		
15	16QAM	36	0	18.00	17.94	18.00	17.76	17.68	19.6	0
15	16QAM	36	20	17.99	18.05	18.12	17.83	17.88		
15	16QAM	36	39	17.80	17.86	18.05	17.68	17.71		
15	16QAM	75	0	17.87	17.79	17.93	17.78	17.75	19.6	0
15	64QAM	1	0	17.96	18.04	18.19	17.83	17.83		
15	64QAM	1	37	17.97	18.01	18.04	17.84	17.88	19.6	0
15	64QAM	1	74	17.90	17.82	18.09	17.81	17.75		
15	64QAM	36	0	18.02	17.92	18.06	17.76	17.74	19.6	0
15	64QAM	36	20	18.04	17.84	18.02	17.87	17.85		
15	64QAM	36	39	17.96	18.06	18.17	17.98	17.98	19.6	0
15	64QAM	75	0	17.94	17.93	18.08	17.71	17.76		
15	256QAM	1	0	17.69	17.60	17.83	17.64	17.66	19.6	0
15	256QAM	1	37	17.63	17.77	17.84	17.65	17.62		
15	256QAM	1	74	17.74	17.88	17.91	17.78	17.85		
15	256QAM	36	0	17.84	17.88	17.96	17.76	17.84	19.6	0
15	256QAM	36	20	17.80	17.74	18.03	17.74	17.74		
15	256QAM	36	39	17.84	17.69	18.08	17.74	17.74	19.6	0
15	256QAM	75	0	17.78	17.72	17.94	17.78	17.61		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.86	17.86	18.09	17.77	17.86	19.60	0
10	QPSK	1	25	17.82	17.87	18.12	17.81	17.75		
10	QPSK	1	49	17.86	17.89	17.91	17.59	17.66		
10	QPSK	25	0	18.07	17.90	18.08	17.89	17.87	19.6	0
10	QPSK	25	12	17.93	17.85	17.98	17.73	17.74		
10	QPSK	25	25	17.94	17.93	17.99	17.86	17.87		
10	QPSK	50	0	17.90	17.79	17.98	17.89	17.60	19.6	0
10	16QAM	1	0	17.83	17.67	17.91	17.85	17.69		
10	16QAM	1	25	17.85	17.93	18.06	17.76	17.76	19.6	0
10	16QAM	1	49	17.85	17.76	18.04	17.87	17.68		
10	16QAM	25	0	17.94	17.97	18.09	17.86	17.87	19.6	0
10	16QAM	25	12	17.91	18.03	18.17	17.76	17.84		
10	16QAM	25	25	17.85	17.81	18.01	17.72	17.80		
10	16QAM	50	0	17.78	17.82	17.96	17.72	17.82	19.6	0
10	64QAM	1	0	17.85	17.96	18.11	17.90	17.90		
10	64QAM	1	25	18.05	17.96	18.05	17.91	17.84	19.6	0
10	64QAM	1	49	17.96	17.89	17.99	17.84	17.72		
10	64QAM	25	0	17.94	17.86	18.08	17.89	17.72	19.6	0
10	64QAM	25	12	17.95	17.83	18.10	17.95	17.78		
10	64QAM	25	25	17.88	17.96	18.09	17.94	17.89		
10	64QAM	50	0	17.94	17.83	18.05	17.78	17.74	19.6	0
10	256QAM	1	0	17.69	17.73	17.86	17.63	17.65		
10	256QAM	1	25	17.75	17.79	17.91	17.62	17.62	19.6	0
10	256QAM	1	49	17.83	17.85	18.01	17.75	17.71		
10	256QAM	25	0	17.79	17.83	17.88	17.70	17.68	19.6	0
10	256QAM	25	12	17.78	17.72	17.96	17.76	17.64		
10	256QAM	25	25	17.89	17.70	17.88	17.67	17.67		
10	256QAM	50	0	17.81	17.70	17.93	17.76	17.74	19.6	0
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.3	2593	2640.8	2687.5		
5	QPSK	1	0	17.92	17.83	18.12	17.83	17.74	19.60	0
5	QPSK	1	12	17.89	17.89	18.11	17.77	17.76		
5	QPSK	1	24	17.96	17.72	18.03	17.70	17.67		
5	QPSK	12	0	18.00	17.90	18.16	17.86	17.86	19.6	0
5	QPSK	12	7	18.00	17.87	18.00	17.72	17.84		
5	QPSK	12	13	17.93	17.93	18.03	17.86	17.87		
5	QPSK	25	0	17.85	17.76	18.02	17.86	17.72	19.6	0
5	16QAM	1	0	17.95	17.77	17.92	17.74	17.84		
5	16QAM	1	12	18.04	17.90	18.05	17.86	17.74	19.6	0
5	16QAM	1	24	17.82	17.91	18.08	17.86	17.65		
5	16QAM	12	0	17.97	17.98	18.13	17.74	17.74	19.6	0
5	16QAM	12	7	17.89	18.04	18.14	17.80	17.89		
5	16QAM	12	13	17.72	17.77	17.99	17.68	17.71		
5	16QAM	25	0	17.76	17.77	17.95	17.75	17.77	19.6	0
5	64QAM	1	0	17.93	18.02	18.04	17.93	17.85		
5	64QAM	1	12	18.02	17.94	18.07	17.88	17.76	19.6	0
5	64QAM	1	24	17.87	17.81	18.07	17.76	17.71		
5	64QAM	12	0	18.07	17.82	18.09	17.88	17.69	19.6	0
5	64QAM	12	7	17.99	17.87	18.05	17.88	17.76		
5	64QAM	12	13	17.92	17.91	18.13	18.02	17.90		
5	64QAM	25	0	17.83	17.88	17.96	17.76	17.71	19.6	0
5	256QAM	1	0	17.69	17.72	17.97	17.74	17.69		
5	256QAM	1	12	17.66	17.66	17.82	17.75			



Band 42 Part96 Ant2 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				43100	43340	43490						
Frequency (MHz)				3560	3575	3590						
20	QPSK	1	0	21.27	21.55	21.16	22.4	0				
20	QPSK	1	49	21.32	21.33	21.17						
20	QPSK	1	99	21.21	21.25	21.17						
20	QPSK	50	0	21.33	21.37	21.29	22	0.4				
20	QPSK	50	24	21.18	21.40	21.18						
20	QPSK	50	50	21.16	21.24	21.24						
20	QPSK	100	0	20.30	20.33	20.29	22	0.4				
20	16QAM	1	0	21.13	21.26	21.17						
20	16QAM	1	49	21.14	21.19	21.08						
20	16QAM	1	99	21.01	21.23	21.04	21.5	0.9				
20	16QAM	50	0	21.36	21.12	21.21						
20	16QAM	50	24	21.29	21.22	21.28						
20	16QAM	50	50	21.08	21.20	21.01	22	0.4				
20	16QAM	100	0	19.56	19.90	19.52						
20	64QAM	1	0	21.25	21.40	21.35						
20	64QAM	1	49	21.39	21.29	21.28	20.5	1.9				
20	64QAM	1	99	21.08	21.25	21.11						
20	64QAM	50	0	20.24	20.15	19.98						
20	64QAM	50	24	20.19	20.04	20.18	19	3.4				
20	64QAM	50	50	20.12	20.12	20.12						
20	64QAM	100	0	18.66	18.56	18.73						
20	256QAM	1	0	18.31	18.37	18.33	19	3.4				
20	256QAM	1	49	18.27	18.34	18.20						
20	256QAM	1	99	18.13	18.27	18.10						
20	256QAM	50	0	18.19	18.30	18.16	22	0.4				
20	256QAM	50	24	18.37	18.33	18.32						
20	256QAM	50	50	18.14	18.15	18.15						
20	256QAM	100	0	18.32	18.37	18.32	22	0.4				
Channel				43165	43340	43515						
Frequency (MHz)				3557.5	3575	3592.5						
15	QPSK	1	0	21.31	21.45	21.16	22.4	0				
15	QPSK	1	37	21.26	21.23	21.20						
15	QPSK	1	74	21.19	21.29	21.17						
15	QPSK	36	0	21.23	21.37	21.21	22	0.4				
15	QPSK	36	20	21.28	21.29	21.22						
15	QPSK	36	39	21.13	21.31	21.15						
15	QPSK	75	0	20.34	20.28	20.21	22	0.4				
15	16QAM	1	0	21.19	21.24	21.24						
15	16QAM	1	37	21.09	21.27	21.17						
15	16QAM	1	74	21.10	21.19	21.01	21.5	0.9				
15	16QAM	36	0	21.35	21.11	21.20						
15	16QAM	36	20	21.29	21.19	21.20						
15	16QAM	36	39	21.14	21.18	21.03	22	0.4				
15	16QAM	75	0	21.36	21.40	21.31						
15	64QAM	1	0	21.20	21.33	21.36						
15	64QAM	1	37	21.27	21.43	21.27	20.5	1.9				
15	64QAM	1	74	21.20	21.28	21.14						
15	64QAM	36	0	20.24	20.07	20.00						
15	64QAM	36	20	20.21	20.02	20.08	19	3.4				
15	64QAM	36	39	20.18	20.29	20.11						
15	64QAM	75	0	20.33	20.48	20.45						
15	256QAM	1	0	18.39	18.36	18.35	22	0.4				
15	256QAM	1	37	18.19	18.42	18.24						
15	256QAM	1	74	18.19	18.20	18.13						
15	256QAM	36	0	18.35	18.30	18.25	22	0.4				
15	256QAM	36	20	18.28	18.30	18.29						
15	256QAM	36	39	18.20	18.29	18.16						
15	256QAM	75	0	18.22	18.32	18.39	22	0.4				
Channel				43140	43340	43540						
Frequency (MHz)				3555	3575	3595						
10	QPSK	1	0	21.23	21.49	21.21	22.4	0				
10	QPSK	1	25	21.25	21.25	21.24						
10	QPSK	1	49	21.25	21.35	21.25						
10	QPSK	25	0	21.32	21.42	21.32	22	0.4				
10	QPSK	25	12	21.29	21.31	21.32						
10	QPSK	25	25	21.20	21.23	21.13						
10	QPSK	50	0	20.22	20.38	20.29	22	0.4				
10	16QAM	1	0	21.14	21.27	21.27						
10	16QAM	1	25	21.13	21.19	21.16						
10	16QAM	1	49	21.09	21.15	21.00	21.5	0.9				
10	16QAM	25	0	21.37	21.15	21.14						
10	16QAM	25	12	21.26	21.14	21.15						
10	16QAM	25	25	21.00	21.24	21.08	22	0.4				
10	16QAM	50	0	21.30	21.46	21.26						
10	64QAM	1	0	21.25	21.26	21.27						
10	64QAM	1	25	21.35	21.38	21.28	20.5	1.9				
10	64QAM	1	49	21.22	21.23	21.18						
10	64QAM	25	0	20.12	20.06	20.00						
10	64QAM	25	12	20.22	20.01	20.14	19	3.4				
10	64QAM	25	25	20.20	20.28	20.09						
10	64QAM	50	0	20.43	20.50	20.40						
10	256QAM	1	0	18.38	18.47	18.34	22	0.4				
10	256QAM	1	25	18.29	18.31	18.14						
10	256QAM	1	49	18.19	18.29	18.21						
10	256QAM	25	0	18.21	18.28	18.28	22	0.4				
10	256QAM	25	12	18.37	18.42	18.38						
10	256QAM	25	25	18.14	18.30	18.20						
10	256QAM	50	0	18.31	18.42	18.27	22	0.4				
Channel				43115	43340	43565						
Frequency (MHz)				3522.5	3575	3597.5						
5	QPSK	1	0	21.32	21.43	21.24	22.4	0				
5	QPSK	1	12	21.26	21.33	21.22						
5	QPSK	1	24	21.12	21.28	21.23						
5	QPSK	12	0	21.29	21.35	21.26	22	0.4				
5	QPSK	12	7	21.23	21.39	21.26						
5	QPSK	12	13	21.22	21.32	21.16						
5	QPSK	25	0	20.33	20.35	20.35	22	0.4				
5	16QAM	1	0	21.13	21.33	21.24						
5	16QAM	1	12	21.13	21.31	21.14						
5	16QAM	1	24	21.05	21.22	21.09	21.5	0.9				
5	16QAM	12	0	21.35	21.14	21.14						
5	16QAM	12	7	21.24	21.16	21.17						
5	16QAM	12	13	21.10	21.23	21.07	22	0.4				
5	16QAM	25	0	21.29	21.40	21.34						
5	64QAM	1	0	21.24	21.25	21.22						
5	64QAM	1	12	21.36	21.31	21.38	20.5	1.9				
5	64QAM	1	24	21.23	21.27	21.19						
5	64QAM	12	0	20.19	20.11	20.06						
5	64QAM	12	7	20.19	20.09	20.12	19	3.4				
5	64QAM	12	13	20.09	20.30	20.19						
5	64QAM	25	0	20.39	20.49	20.39						
5	256QAM	1	0	18.27	18.45	18.35	22	0.4				
5	256QAM	1	12	18.19	18.36	18.16						
5	256QAM	1	24	18.11	18.16	18.09						
5	256QAM	12	0	18.19	18.27	18.19	22	0.4				
5	256QAM	12	7	18.28	18.30	18.34						
5	256QAM	12	13	18.21	18.33	18.09						
5	256QAM	25	0	18.24	18.36	18.33	22	0.4				
Channel				42100	42590	42990						
Frequency (MHz)				3460	3500	3540						
20	QPSK	1	0	21.45	21.65	21.39	22.4	0				
20	QPSK	1	49	21.43	21.47	21.37						
20	QPSK	1	99	21.36	21.49	21.40						
20	QPSK	50	0	21.43	21.54	21.42	22	0.4				
20	QPSK	50	24	21.41	21.50	21.42						
20	QPSK	50	50	21.38	21.42	21.38						
20	QPSK	100	0	20.45	20.51	20.45	22	0.4				
20	16QAM	1	0	21.35	21.49	21.39						
20	16QAM	1	49	21.30	21.42	21.29						
20	16QAM	1	99	21.23	21.37	21.22	21.5	0.9				
20	16QAM	50	0	21.48	21.30	21.36						
20	16QAM	50	24	21.46	21.32	21.40						
20	16QAM	50	50	21.24	21.39	21.24	22	0.4				
20	16QAM	100	0	19.66	19.51	19.67						
20	64QAM	1	0	21.37	21.50	21.46						
20	64QAM	1	49	21.50	21.54	21.50	20.5	1.9				
20	64QAM	1	99	21.33								



Band 43 Ant2 DSII2 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				4390	4390	4490			
Frequency (MHz)				3610	3650	3690			
20	QPSK	1	0	21.56	21.72	21.64	22.4	0	
20	QPSK	1	49	21.53	21.57	21.42			
20	QPSK	1	99	21.56	21.60	21.54	22	0.4	
20	QPSK	50	0	21.62	21.68	21.64			
20	QPSK	50	24	21.61	21.66	21.25	22	0.4	
20	QPSK	50	50	21.55	21.61	21.53			
20	QPSK	100	0	20.53	20.62	20.50	22	0.4	
20	16QAM	1	0	21.48	21.55	21.47			
20	16QAM	1	49	21.50	21.57	21.44	22	0.4	
20	16QAM	1	99	21.46	21.60	21.51			
20	16QAM	50	0	21.40	21.44	21.33	21.5	0.9	
20	16QAM	50	24	21.34	21.43	21.38			
20	16QAM	50	50	20.44	20.48	20.36	22	0.4	
20	16QAM	100	0	19.56	19.63	19.58			
20	64QAM	1	0	21.57	21.65	21.52	22	0.4	
20	64QAM	1	49	21.55	21.63	21.52			
20	64QAM	1	99	21.60	21.66	21.61	20.5	1.9	
20	64QAM	50	0	20.40	20.46	20.36			
20	64QAM	50	24	20.33	20.46	20.36	20	1.9	
20	64QAM	50	50	20.44	20.38	20.36			
20	64QAM	100	0	18.57	18.64	18.53	19	3.4	
20	256QAM	1	0	18.43	18.47	18.35			
20	256QAM	1	49	18.44	18.58	18.48	20	3.4	
20	256QAM	1	99	18.36	18.48	18.39			
20	256QAM	50	0	18.52	18.62	18.51	19	3.4	
20	256QAM	50	24	18.57	18.64	18.57			
20	256QAM	50	50	18.48	18.63	18.55	20	3.4	
20	256QAM	100	0	18.52	18.60	18.54			
Channel				4365	4390	4415			
Frequency (MHz)				3607.5	3650	3692.5			
15	QPSK	1	0	21.54	21.67	21.60	22.4	0	
15	QPSK	1	37	21.33	21.44	21.45			
15	QPSK	1	74	21.37	21.57	21.47	22	0.4	
15	QPSK	36	0	21.49	21.58	21.46			
15	QPSK	36	20	21.48	21.55	21.47	22	0.4	
15	QPSK	36	39	21.48	21.53	21.37			
15	QPSK	75	0	21.45	21.55	21.42	22	0.4	
15	16QAM	1	0	21.45	21.41	21.39			
15	16QAM	1	37	21.44	21.46	21.33	21.5	0.9	
15	16QAM	1	74	21.42	21.56	21.41			
15	16QAM	36	0	21.21	21.34	21.25	22	0.4	
15	16QAM	36	20	21.28	21.38	21.28			
15	16QAM	36	39	21.31	21.34	21.30	20.5	1.9	
15	16QAM	75	0	21.23	21.39	21.26			
15	64QAM	1	0	21.48	21.56	21.47	22	0.4	
15	64QAM	1	37	21.45	21.59	21.46			
15	64QAM	1	74	21.48	21.59	21.47	20.5	1.9	
15	64QAM	36	0	20.32	20.34	20.25			
15	64QAM	36	20	20.19	20.41	20.25	19	3.4	
15	64QAM	36	39	20.34	20.44	20.33			
15	64QAM	75	0	20.26	20.37	20.28	20	3.4	
15	256QAM	1	0	18.25	18.34	18.31			
15	256QAM	1	37	18.43	18.54	18.43	22	0.4	
15	256QAM	1	74	18.28	18.45	18.32			
15	256QAM	36	0	18.39	18.53	18.46	22	0.4	
15	256QAM	36	20	18.40	18.55	18.54			
15	256QAM	36	39	18.39	18.50	18.36	20.5	1.9	
15	256QAM	75	0	18.48	18.55	18.44			
Channel				4340	4390	4440			
Frequency (MHz)				3605	3650	3695			
10	QPSK	1	0	21.53	21.59	21.49	22.4	0	
10	QPSK	1	25	21.37	21.54	21.45			
10	QPSK	1	49	21.41	21.53	21.52	22	0.4	
10	QPSK	25	0	21.46	21.55	21.49			
10	QPSK	25	12	21.46	21.61	21.41	22	0.4	
10	QPSK	25	25	21.41	21.52	21.45			
10	QPSK	50	0	21.51	21.54	21.42	22	0.4	
10	16QAM	1	0	21.35	21.44	21.43			
10	16QAM	1	25	21.47	21.53	21.42	21.5	0.9	
10	16QAM	1	49	21.41	21.55	21.49			
10	16QAM	25	0	21.16	21.31	21.17	22	0.4	
10	16QAM	25	12	21.21	21.39	21.32			
10	16QAM	25	25	21.36	21.39	21.28	22	0.4	
10	16QAM	50	0	21.23	21.32	21.28			
10	64QAM	1	0	21.40	21.59	21.53	22	0.4	
10	64QAM	1	25	21.50	21.53	21.49			
10	64QAM	1	49	21.49	21.56	21.54	20.5	1.9	
10	64QAM	25	0	20.27	20.31	20.21			
10	64QAM	25	12	20.17	20.39	20.22	19	3.4	
10	64QAM	25	25	20.31	20.34	20.34			
10	64QAM	50	0	20.50	20.50	20.44	22	0.4	
10	256QAM	1	0	18.26	18.38	18.27			
10	256QAM	1	25	18.40	18.43	18.39	22	0.4	
10	256QAM	1	49	18.32	18.38	18.24			
10	256QAM	25	0	18.37	18.56	18.45	20.5	1.9	
10	256QAM	25	12	18.41	18.52	18.56			
10	256QAM	25	25	18.41	18.54	18.41	19	3.4	
10	256QAM	50	0	18.52	18.47	18.41			
Channel				4315	4390	4465			
Frequency (MHz)				3602.5	3650	3697.5			
5	QPSK	1	0	21.54	21.63	21.57	22.4	0	
5	QPSK	1	12	21.41	21.51	21.37			
5	QPSK	1	24	21.39	21.56	21.45	22	0.4	
5	QPSK	12	0	21.46	21.64	21.45			
5	QPSK	12	7	21.52	21.57	21.41	22	0.4	
5	QPSK	12	13	21.41	21.54	21.46			
5	QPSK	25	0	21.49	21.59	21.43	22	0.4	
5	16QAM	1	0	21.45	21.40	21.34			
5	16QAM	1	12	21.41	21.45	21.41	21.5	0.9	
5	16QAM	1	24	21.43	21.56	21.42			
5	16QAM	12	0	21.18	21.31	21.18	22	0.4	
5	16QAM	12	7	21.25	21.38	21.28			
5	16QAM	12	13	21.26	21.38	21.24	22	0.4	
5	16QAM	25	0	21.32	21.33	21.22			
5	64QAM	1	0	21.38	21.57	21.53	20.5	1.9	
5	64QAM	1	12	21.47	21.54	21.51			
5	64QAM	1	24	21.52	21.58	21.49	19	3.4	
5	64QAM	12	0	20.33	20.32	20.26			
5	64QAM	12	7	20.24	20.34	20.22	22	0.4	
5	64QAM	12	13	20.31	20.35	20.37			
5	64QAM	25	0	20.26	20.41	20.24	20.5	1.9	
5	256QAM	1	0	18.27	18.33	18.37			
5	256QAM	1	12	18.38	18.47	18.46	19	3.4	
5	256QAM	1	24	18.30	18.33	18.32			
5	256QAM	12	0	18.42	18.53	18.46	22	0.4	
5	256QAM	12	7	18.45	18.50	18.56			
5	256QAM	12	13	18.46	18.51	18.42	19	3.4	
5	256QAM	25	0	18.45	18.54	18.45			

Band 48 Ant2 DSII2 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				5530	5530	5610			
Frequency (MHz)				3560	3600	3640			
20	QPSK	1	0	21.83	21.85	21.64	22.4	0	
20	QPSK	1	49	21.66	21.69	21.62			
20	QPSK	1	99	21.63	21.73	21.69	22	0.4	
20	QPSK	50	0	21.65	21.75	21.69			
20	QPSK	50	24	21.61	21.73	21.63	22	0.4	
20	QPSK	50	50	21.68	21.71	21.66			
20	QPSK	100	0	20.70	20.74	20.69	22	0.4	
20	16QAM	1	0	21.54	21.63	21.54			
20	16QAM	1	49	21.57	21.68	21.62	22	0.4	
20	16QAM	1	99	21.49	21.60	21.55			
20	16QAM	50	0	21.32	21.46	21.38	21.5	0.9	
20	16QAM	50	24	21.33	21.47	21.35			
20	16QAM	50	50	20.26	20.32	20.21	22	0.4	
20	16QAM	100	0	19.69	19.76	19.63			
20	64QAM	1	0	21.66	21.74	21.59	22	0.4	
20	64QAM	1	49	21.63	21.68	21.54			
20	64QAM	1	99	21.65	21.70	21.62	20.5	1.9	
20	64QAM	50	0	20.28	20.46	20.32			
20	64QAM								



Reduced Power for DS12 Simultaneous

GSM850 ANT0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	160	251		128	160	251	
TX Channel	824.2	836.4	848.6		824.2	836.4	848.6	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.66	32.75	32.55	33.50	23.66	23.75	23.55	24.50
GPRS 1 Tx slot	32.56	32.74	32.43	33.50	23.56	23.74	23.43	24.50
GPRS 2 Tx slots	23.70	23.98	23.66	31.00	23.78	23.98	23.66	25.00
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74
GPRS 4 Tx slots	28.63	28.78	28.37	27.00	23.63	23.78	23.37	24.00
EDGE 1 Tx slot	26.74	25.62	25.62	26.50	16.74	16.62	16.62	17.50
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	16.06	16.16	17.93	19.00
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	16.51	16.56	16.33	19.24
EDGE 4 Tx slots	20.76	20.80	20.65	22.00	17.76	17.80	17.65	19.00

GSM1900 ANT0	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	1860	1909.8		1850.2	1860	1909.8	
Frequency (MHz)	1850.2	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	29.88	30.02	29.80	30.50	20.88	21.02	20.80	21.50
GPRS 1 Tx slot	29.71	29.93	29.67	30.50	20.71	20.93	20.67	21.50
GPRS 2 Tx slots	26.30	26.32	26.23	27.00	20.30	20.32	20.23	21.00
GPRS 3 Tx slots	23.74	24.13	23.88	25.00	19.48	19.87	19.62	20.74
GPRS 4 Tx slots	22.22	22.51	22.38	24.00	18.22	19.51	19.39	21.00
EDGE 1 Tx slot	24.97	25.10	25.04	25.50	15.97	16.10	16.04	16.50
EDGE 2 Tx slots	23.37	23.45	23.31	24.00	17.37	17.45	17.31	18.00
EDGE 3 Tx slots	22.12	22.38	22.25	23.00	17.66	18.12	17.69	18.74
EDGE 4 Tx slots	19.88	20.12	19.78	20.50	16.88	17.12	16.78	17.50

Band	TX Channel	Rx Channel	WCDMA E ANT0			Tune-up Limit (dBm)	WCDMA IV ANT0			Tune-up Limit (dBm)	WCDMA V ANT0			Tune-up Limit (dBm)
			9552	9490	9538		1312	1413	1518		4152	4165	4233	
			9552	9490	9538		1312	1413	1518		4152	4165	4233	
			1852.4	1880	1907.6		1537	1638	1738		4367	4407	4468	
			1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps		22.94	23.06	22.78	24.00	22.71	22.93	22.88	24.00	23.07	23.16	23.02	24.00
3GPP Rel 99	RMC 12.2Kbps		23.10	23.13	22.91	24.00	22.85	23.05	22.96	24.00	23.26	23.32	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1		22.24	22.17	22.14	23.00	22.12	22.09	22.06	23.00	22.24	22.30	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2		21.96	22.18	22.20	23.00	21.85	22.05	22.07	23.00	22.11	22.22	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3		21.68	21.70	21.42	22.50	21.56	21.59	21.38	22.50	21.74	21.83	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4		21.67	21.65	21.70	22.50	21.57	21.59	21.53	22.50	21.72	21.78	21.75	22.50
3GPP Rel 8	DC-HSDPA Subtest-1		22.15	22.22	22.19	23.00	22.07	22.15	22.05	23.00	22.23	22.42	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-2		22.38	22.31	22.21	23.00	22.22	22.17	22.14	23.00	22.45	22.34	22.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-3		21.57	21.82	21.67	22.50	21.54	21.76	21.62	22.50	21.77	21.91	21.83	22.50
3GPP Rel 8	DC-HSDPA Subtest-4		21.81	21.68	21.38	22.50	21.67	21.64	21.33	22.50	21.88	21.87	21.53	22.50
3GPP Rel 6	HSUPA Subtest-1		22.25	22.24	22.09	23.00	22.20	22.18	21.98	23.00	22.37	22.33	22.16	23.00
3GPP Rel 6	HSUPA Subtest-2		20.27	20.30	20.05	21.00	20.15	20.20	19.93	21.00	20.33	20.43	20.13	21.00
3GPP Rel 6	HSUPA Subtest-3		21.07	21.32	21.23	22.00	20.92	21.15	21.09	22.00	21.09	21.30	21.30	22.00
3GPP Rel 6	HSUPA Subtest-4		19.93	20.13	20.01	21.00	19.73	20.02	19.93	21.00	20.02	20.16	20.04	21.00
3GPP Rel 6	HSUPA Subtest-5		21.86	22.14	22.00	23.00	21.78	22.09	21.98	23.00	21.91	22.18	22.13	23.00



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 (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.82	22.79	24	0		
10	QPSK	1	40	22.73	22.82	22.76				
10	QPSK	1	80	22.59	22.80	22.86				
10	QPSK	25	12	22.85	22.79	22.74	24	0		
10	QPSK	25	52	22.82	22.73	22.88				
10	QPSK	25	92	22.82	22.73	22.88				
10	16QAM	1	0	22.75	22.85	22.81	24	0		
10	16QAM	1	25	22.89	22.86	22.89				
10	16QAM	1	49	22.99	22.80	22.86				
10	16QAM	25	0	22.35	22.48	22.45	23.5	0.5		
10	16QAM	25	12	22.29	22.44	22.52				
10	16QAM	25	25	22.33	22.30	22.19				
10	16QAM	50	0	22.38	22.44	22.39				
10	64QAM	1	0	22.42	22.37	22.43	23.5	0.5		
10	64QAM	1	25	22.35	22.35	22.35				
10	64QAM	1	49	22.33	22.38	22.30				
10	64QAM	25	0	21.33	21.46	21.38				
10	64QAM	25	12	21.23	21.28	21.24	22.5	1.5		
10	64QAM	25	25	21.28	21.21	21.22				
10	64QAM	50	0	21.38	21.41	21.38				
10	256QAM	1	0	19.53	19.61	19.52	20.5	3.5		
10	256QAM	1	25	19.48	19.48	19.48				
10	256QAM	1	49	19.34	19.41	19.35				
10	256QAM	25	0	19.37	19.25	19.19	20.5	3.5		
10	256QAM	25	12	19.25	19.25	19.24				
10	256QAM	50	0	19.37	19.37	19.38				
Channel										
Frequency (MHz)										
8	QPSK	1	0	22.83	22.83	22.69	24	0		
8	QPSK	1	24	22.78	22.87	22.79				
8	QPSK	1	48	22.68	22.69	22.69				
8	QPSK	12	0	22.78	22.81	22.83	24	0		
8	QPSK	12	12	22.78	22.81	22.83				
8	QPSK	12	13	22.59	22.59	22.63	24	0		
8	QPSK	25	0	22.74	22.77	22.79	24	0		
8	16QAM	1	12	22.54	22.58	22.56	24	0		
8	16QAM	1	24	22.49	22.49	22.53				
8	16QAM	12	0	22.59	22.57	22.59				
8	16QAM	12	7	22.21	22.26	22.21	23.5	0.5		
8	16QAM	25	0	22.33	22.33	22.33				
8	64QAM	1	0	22.29	22.44	22.38	23.5	0.5		
8	64QAM	1	24	22.29	22.52	22.15				
8	64QAM	12	0	21.23	21.26	21.30				
8	64QAM	12	13	21.14	21.12	21.08	22.5	1.5		
8	64QAM	25	0	21.23	21.33	21.35				
8	256QAM	1	12	19.27	19.31	19.32	20.5	3.5		
8	256QAM	12	0	19.25	19.25	19.22				
8	256QAM	12	7	19.25	19.24	19.24	20.5	3.5		
8	256QAM	25	0	19.25	19.25	19.27				
8	256QAM	25	0	19.25	19.25	19.27				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.83	22.80	22.72	24	0		
3	QPSK	1	8	22.75	22.82	22.78				
3	QPSK	1	16	22.67	22.80	22.73				
3	QPSK	8	0	22.79	22.77	22.89	24	0		
3	QPSK	8	4	22.85	22.74	22.84				
3	QPSK	16	0	22.80	22.77	22.73	24	0		
3	16QAM	1	0	22.83	22.77	22.76	24	0		
3	16QAM	1	14	22.49	22.46	22.54				
3	16QAM	8	0	22.39	22.30	22.36	23.5	0.5		
3	16QAM	16	0	22.39	22.30	22.30				
3	64QAM	1	8	22.29	22.26	22.24	23.5	0.5		
3	64QAM	1	14	22.28	22.29	22.18				
3	64QAM	8	0	21.25	21.41	21.30				
3	64QAM	8	4	21.16	21.14	21.09	22.5	1.5		
3	64QAM	16	0	21.27	21.38	21.33				
3	256QAM	1	0	19.49	19.55	19.42	20.5	3.5		
3	256QAM	1	8	19.37	19.41	19.24				
3	256QAM	1	14	19.28	19.40	19.25				
3	256QAM	8	0	19.22	19.28	19.32	20.5	3.5		
3	256QAM	8	4	19.22	19.24	19.14				
3	256QAM	16	0	19.19	19.18	19.14				
3	256QAM	16	0	19.24	19.25	19.24				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.81	22.80	22.67	24	0		
14	QPSK	1	5	22.89	22.75	22.89				
14	QPSK	1	10	22.72	22.80	22.80				
14	QPSK	3	1	22.80	22.70	22.67	24	0		
14	QPSK	3	3	22.81	22.65	22.54				
14	16QAM	1	0	22.83	22.78	22.71	24	0		
14	16QAM	1	9	22.89	22.82	22.86				
14	16QAM	1	14	22.93	22.86	22.90				
14	16QAM	3	1	22.21	22.43	22.28	23.5	0.5		
14	16QAM	3	1	22.20	22.28	22.21				
14	16QAM	3	1	22.26	22.21	22.09				
14	16QAM	6	0	22.32	22.41	22.31	23.5	0.5		
14	64QAM	1	0	22.36	22.61	22.37	23.5	0.5		
14	64QAM	1	6	22.23	22.34	22.18				
14	64QAM	3	1	22.27	22.34	22.31	23.5	0.5		
14	64QAM	3	1	22.10	22.22	22.16				
14	256QAM	1	0	22.14	22.08	22.13	22.5	1.5		
14	256QAM	1	14	21.20	21.50	21.25				
14	256QAM	3	0	19.40	19.50	19.40	20.5	3.5		
14	256QAM	3	0	19.41	19.47	19.21				
14	256QAM	3	1	19.36	19.41	19.24				
14	256QAM	3	1	19.22	19.29	19.21	20.5	3.5		
14	256QAM	3	1	19.21	19.24	19.20				
14	256QAM	3	1	19.26	19.11	19.20				
14	256QAM	6	0	19.25	19.28	19.32	20.5	3.5		

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 (ms)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.36	22.36	22.36	24	0		
10	QPSK	1	25	22.38	22.35	22.35				
10	QPSK	1	49	22.33	22.33	22.33				
10	QPSK	25	12	22.44	22.44	22.44	24	0		
10	QPSK	25	25	22.31	22.31	22.31				
10	16QAM	1	0	22.46	22.46	22.46	24	0		
10	16QAM	1	25	22.37	22.37	22.37				
10	16QAM	1	49	22.30	22.30	22.30				
10	16QAM	25	0	22.07	22.07	22.07	23.5	0.5		
10	16QAM	25	12	21.98	21.98	21.98				
10	16QAM	25	25	21.90	21.90	21.90				
10	16QAM	50	0	22.01	22.01	22.01				
10	64QAM	1	0	21.97	21.97	21.97	23.5	0.5		
10	64QAM	1	25	22.01	21.99	21.99				
10	64QAM	1	49	21.85	21.85	21.85				
10	64QAM	25	0	21.36	21.36	21.36	22.5	1.5		
10	64QAM	25	12	21.20	21.25	21.27				
10	64QAM	25	25	21.26	21.32	21.20				
10	64QAM	50	0	21.35	21.38	21.29				
10	256QAM	1	0	19.10	19.24	19.27	20.5	3.5		
10	256QAM	1	25	18.96	19.26	19.16				
10	256QAM	1	49	18.90	19.32	19.18				
10	256QAM	25	0	19.01	19.46	19.29	20.5	3.5		
10	256QAM	25	12	18.90	19.41	19.31				
10	256QAM	25	25	18.95	19.34	19.20				
10	256QAM	50	0	19.03	19.40	19.33				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.29	22.29	22.29	24	0		
5	QPSK	1	12	22.13	22.17	22.20				
5	QPSK	1	24	22.						



Band 26 Ant0 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up (sec)	MFR (dB)		
Channel										
Frequency (MHz)				811.5	811.5	811.5				
15	QPSK	1	0	22.19	22.26	22.43	24	0		
15	QPSK	1	37	22.42	22.46	22.43				
15	QPSK	1	74	22.38	22.30	22.38				
15	QPSK	36	0	22.46	22.54	22.43				
15	QPSK	36	20	22.35	22.43	22.34				
15	QPSK	36	39	22.41	22.47	22.39	24	0		
15	QPSK	36	58	22.42	22.38	22.43				
15	HQAM	1	0	22.41	22.35	22.43				
15	HQAM	1	37	22.42	22.46	22.41	24	0		
15	HQAM	1	74	22.37	22.39	22.38				
15	HQAM	36	0	21.94	22.03	21.99				
15	HQAM	36	20	21.97	21.87	21.87	23.5	0.5		
15	HQAM	36	39	21.79	21.86	21.81				
15	HQAM	36	58	21.84	21.84	21.88				
15	HQAM	75	0	21.95	21.94	21.95				
15	HQAM	1	37	21.93	21.95	21.93	23.5	0.5		
15	HQAM	1	74	21.79	21.85	21.79				
15	HQAM	36	0	20.98	20.97	20.95				
15	HQAM	36	20	20.90	20.80	20.81	22.5	1.5		
15	HQAM	36	39	20.75	20.81	20.75				
15	HQAM	75	0	20.93	20.99	20.90				
15	SSQAM	1	0	19.90	19.67	19.60	20.5	3.5		
15	SSQAM	1	37	19.94	19.90	19.93				
15	SSQAM	1	74	19.82	19.86	19.83				
15	SSQAM	36	0	19.89	19.78	19.86	20.5	3.5		
15	SSQAM	36	20	19.83	19.74	19.83				
15	SSQAM	36	39	19.83	19.74	19.83				
15	SSQAM	75	0	19.80	19.87	19.79				
Channel										
Frequency (MHz)				811.5	811.5	811.5				
10	QPSK	1	0	22.53	22.57	22.39	24	0		
10	QPSK	1	25	22.59	22.59	22.59				
10	QPSK	1	49	22.24	22.38	22.32				
10	QPSK	25	0	22.38	22.43	22.39				
10	QPSK	25	12	22.33	22.31	22.32	24	0		
10	QPSK	25	25	22.34	22.40	22.38				
10	QPSK	50	0	22.13	22.26	22.23				
10	HQAM	1	0	22.37	22.44	22.32				
10	HQAM	1	25	22.31	22.33	22.27	24	0		
10	HQAM	1	49	22.27	22.26	22.21				
10	HQAM	25	0	21.84	21.99	21.84				
10	HQAM	25	12	21.75	21.77	21.82	23.5	0.5		
10	HQAM	25	25	21.84	21.88	21.82				
10	HQAM	50	0	21.79	21.86	21.77				
10	HQAM	1	0	21.98	21.94	21.94	23.5	0.5		
10	HQAM	1	25	21.82	21.91	21.82				
10	HQAM	1	49	21.70	21.74	21.69				
10	HQAM	25	0	20.82	20.90	20.80	22.5	1.5		
10	HQAM	25	12	20.75	20.77	20.80				
10	HQAM	25	25	20.82	20.75	20.72				
10	HQAM	50	0	20.89	20.94	20.83	20.5	3.5		
10	SSQAM	1	0	19.98	19.99	19.95				
10	SSQAM	1	25	19.88	19.78	19.78	20.5	3.5		
10	SSQAM	1	49	19.74	19.77	19.76				
10	SSQAM	25	0	19.74	19.84	19.70	20.5	3.5		
10	SSQAM	25	12	19.73	19.75	19.81				
10	SSQAM	25	25	19.85	19.78	19.85				
Channel										
Frequency (MHz)				811.5	811.5	811.5				
5	QPSK	1	0	22.48	22.45	22.40	24	0		
5	QPSK	1	12	22.38	22.45	22.37				
5	QPSK	1	24	22.45	22.45	22.45				
5	QPSK	12	0	22.43	22.45	22.43				
5	QPSK	12	7	22.24	22.38	22.27	24	0		
5	QPSK	12	14	22.31	22.38	22.32				
5	QPSK	25	0	22.20	22.34	22.19				
5	HQAM	1	0	22.28	22.32	22.30	24	0		
5	HQAM	1	12	22.38	22.38	22.32				
5	HQAM	1	24	22.26	22.35	22.16				
5	HQAM	12	0	21.86	21.96	21.76	23.5	0.5		
5	HQAM	12	7	21.73	21.73	21.82				
5	HQAM	12	14	21.84	21.77	21.69				
5	HQAM	25	0	21.71	21.86	21.70	23.5	0.5		
5	HQAM	1	0	21.81	21.96	21.86				
5	HQAM	1	12	21.84	21.77	21.71	23.5	0.5		
5	HQAM	1	24	21.65	21.72	21.55				
5	HQAM	12	0	20.83	20.86	20.71	22.5	1.5		
5	HQAM	12	7	20.76	20.88	20.72				
5	HQAM	12	14	20.83	20.88	20.83				
5	HQAM	25	0	20.84	20.88	20.78	20.5	3.5		
5	SSQAM	1	0	19.86	19.86	19.81	20.5	3.5		
5	SSQAM	1	12	19.89	19.84	19.81				
5	SSQAM	1	24	19.73	19.82	19.70	20.5	3.5		
5	SSQAM	12	0	19.83	19.82	19.75				
5	SSQAM	12	7	19.74	19.73	19.70				
5	SSQAM	12	14	19.74	19.69	19.64				
5	SSQAM	25	0	19.65	19.78	19.75				
Channel										
Frequency (MHz)				811.5	811.5	811.5				
3	QPSK	1	0	22.15	22.15	22.17	24	0		
3	QPSK	1	8	22.39	22.37	22.31				
3	QPSK	1	14	22.59	22.41	22.25				
3	QPSK	3	0	22.45	22.46	22.48				
3	QPSK	3	4	22.30	22.31	22.20	24	0		
3	QPSK	8	0	22.32	22.34	22.26				
3	QPSK	15	0	22.12	22.37	22.17				
3	HQAM	1	0	22.36	22.44	22.34	24	0		
3	HQAM	1	8	22.30	22.40	22.27				
3	HQAM	1	14	22.31	22.28	22.14				
3	HQAM	3	0	21.82	21.96	21.79	23.5	0.5		
3	HQAM	3	4	21.94	21.78	21.78				
3	HQAM	3	8	21.71	21.76	21.75				
3	HQAM	15	0	21.74	21.82	21.85	23.5	0.5		
3	HQAM	1	0	21.96	22.00	21.87				
3	HQAM	1	8	21.78	21.81	21.68	23.5	0.5		
3	HQAM	1	14	21.65	21.70	21.68				
3	HQAM	3	0	20.78	20.93	20.73	22.5	1.5		
3	HQAM	3	4	20.69	20.68	20.70				
3	HQAM	8	0	20.84	20.88	20.65	20.5	3.5		
3	HQAM	15	0	20.83	20.84	20.81				
3	SSQAM	1	0	19.94	19.92	19.94	20.5	3.5		
3	SSQAM	1	8	19.80	19.89	19.80				
3	SSQAM	1	14	19.74	19.82	19.71	20.5	3.5		
3	SSQAM	3	0	19.84	19.80	19.81				
3	SSQAM	3	4	19.77	19.69	19.64	20.5	3.5		
3	SSQAM	8	0	19.76	19.65	19.63				
3	SSQAM	15	0	19.70	19.79	19.74				
Channel										
Frequency (MHz)				814.7	811.5	811.5				
1.4	QPSK	1	0	22.48	22.52	22.36	24	0		
1.4	QPSK	1	3	22.35	22.47	22.29				
1.4	QPSK	1	5	22.34	22.46	22.33				
1.4	QPSK	3	0	22.44	22.47	22.42				
1.4	QPSK	3	1	22.38	22.38	22.29	24	0		
1.4	QPSK	3	3	22.28	22.39	22.28				
1.4	QPSK	6	0	22.16	22.32	22.26				
1.4	HQAM	1	0	22.29	22.45	22.33	24	0		
1.4	HQAM	1	3	22.38	22.38	22.29				
1.4	HQAM	1	5	22.51	22.29	22.16				
1.4	HQAM	3	0	22.32	22.50	22.27	24	0		
1.4	HQAM	3	1	22.24	22.25	22.28				
1.4	HQAM	3	3	22.16	22.21	22.25				
1.4	HQAM	6	0	21.80	21.85	21.84				



Band 38 PC3 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	23.06	23.19	23.04	24	0		
20	QPSK	1	49	23.00	23.08	22.93				
20	QPSK	1	99	23.01	23.04	22.91				
20	QPSK	50	0	23.05	23.08	23.00				
20	QPSK	50	24	22.87	22.85	22.87	24	0		
20	QPSK	50	50	23.00	23.08	23.03				
20	QPSK	100	0	22.98	23.05	22.97				
20	16QAM	1	0	22.98	23.05	22.97				
20	16QAM	1	49	22.92	23.07	22.95	24	0		
20	16QAM	1	99	22.86	23.03	23.01				
20	16QAM	50	0	22.93	23.06	22.95				
20	16QAM	50	24	22.98	23.12	23.05	24	0		
20	16QAM	50	50	23.01	23.08	23.03				
20	16QAM	100	0	22.92	23.06	22.97				
20	64QAM	1	0	22.97	23.15	22.99				
20	64QAM	1	49	22.94	23.05	22.99	24	0		
20	64QAM	1	99	23.06	23.13	22.98				
20	64QAM	50	0	22.87	23.00	22.97				
20	64QAM	50	24	23.05	23.11	23.07	24	0		
20	64QAM	50	50	23.06	23.09	22.94				
20	64QAM	100	0	22.97	23.07	23.02				
20	256QAM	1	0	20.93	20.99	20.84				
20	256QAM	1	49	20.84	20.98	20.85	22	2		
20	256QAM	1	99	21.01	21.06	20.91				
20	256QAM	50	0	20.97	21.08	20.94				
20	256QAM	50	24	21.06	21.11	20.97	22	2		
20	256QAM	50	50	20.95	21.05	20.91				
20	256QAM	100	0	20.96	21.07	20.92				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.91	23.08	22.89	24	0		
15	QPSK	1	37	22.85	23.04	22.76				
15	QPSK	1	74	22.90	22.86	22.76				
15	QPSK	36	0	22.86	22.89	22.85				
15	QPSK	36	20	22.78	22.90	22.72	24	0		
15	QPSK	36	39	22.85	23.01	22.83				
15	QPSK	75	0	22.93	23.01	22.88				
15	16QAM	1	0	22.81	22.85	22.87				
15	16QAM	1	37	22.88	22.98	22.90	24	0		
15	16QAM	1	74	22.72	22.87	22.98				
15	16QAM	36	0	22.86	22.89	22.78				
15	16QAM	36	20	22.94	22.95	23.02	24	0		
15	16QAM	36	39	22.92	23.04	22.97				
15	16QAM	75	0	22.79	23.01	22.89				
15	64QAM	1	0	22.81	23.01	22.85				
15	64QAM	1	37	22.83	23.01	22.89	24	0		
15	64QAM	1	74	22.93	23.01	22.94				
15	64QAM	36	0	22.89	23.02	22.83				
15	64QAM	36	20	22.99	23.02	23.05	24	0		
15	64QAM	36	39	22.98	23.04	22.85				
15	64QAM	75	0	22.82	22.99	22.98				
15	256QAM	1	0	20.77	20.94	20.68				
15	256QAM	1	37	20.75	20.82	20.76	22	2		
15	256QAM	1	74	20.86	20.91	20.77				
15	256QAM	36	0	20.91	20.84	20.83				
15	256QAM	36	20	20.99	21.08	20.81	22	2		
15	256QAM	36	39	20.86	20.88	20.77				
15	256QAM	75	0	20.82	21.03	20.86				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.99	23.02	22.89	24	0		
10	QPSK	1	25	22.88	23.03	22.86				
10	QPSK	1	49	22.96	22.93	22.84				
10	QPSK	25	0	22.95	22.97	22.84				
10	QPSK	25	12	22.81	22.77	22.82	24	0		
10	QPSK	25	25	22.92	22.95	22.84				
10	QPSK	50	0	22.87	22.94	22.90				
10	16QAM	1	0	22.91	22.88	22.86				
10	16QAM	1	25	22.76	22.81	22.89	24	0		
10	16QAM	1	49	22.79	22.99	22.95				
10	16QAM	25	0	22.90	22.99	22.78				
10	16QAM	25	12	22.86	23.08	22.98	24	0		
10	16QAM	25	25	22.94	22.91	22.92				
10	16QAM	50	0	22.75	22.89	22.91				
10	64QAM	1	0	22.80	23.04	22.91				
10	64QAM	1	25	22.79	22.81	22.86	24	0		
10	64QAM	1	49	22.93	23.02	22.89				
10	64QAM	25	0	22.72	22.97	22.94				
10	64QAM	25	12	22.88	23.00	22.95	24	0		
10	64QAM	25	25	22.89	23.07	22.77				
10	64QAM	50	0	22.79	22.95	22.94				
10	256QAM	1	0	20.80	20.87	20.71				
10	256QAM	1	25	20.72	20.84	20.72	22	2		
10	256QAM	1	49	20.97	20.87	20.75				
10	256QAM	25	0	20.93	21.04	20.90				
10	256QAM	25	12	20.95	20.98	20.85	22	2		
10	256QAM	25	25	20.82	20.88	20.86				
10	256QAM	50	0	20.82	21.00	20.82				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.05	23.15	22.94	24	0		
5	QPSK	1	12	22.87	22.96	22.80				
5	QPSK	1	24	22.85	22.92	22.83				
5	QPSK	12	0	22.96	23.03	22.84				
5	QPSK	12	7	22.77	22.79	22.78	24	0		
5	QPSK	12	13	22.88	22.89	22.86				
5	QPSK	25	0	22.96	22.96	22.87				
5	16QAM	1	0	22.92	22.89	22.82				
5	16QAM	1	12	22.75	23.05	22.88	24	0		
5	16QAM	1	24	22.76	22.92	22.86				
5	16QAM	12	0	22.80	22.91	22.81				
5	16QAM	12	7	22.86	23.02	23.01	24	0		
5	16QAM	12	13	22.83	22.92	22.89				
5	16QAM	25	0	22.74	23.00	22.84				
5	64QAM	1	0	22.94	23.10	22.84				
5	64QAM	1	12	22.91	22.93	22.90	24	0		
5	64QAM	1	24	22.91	23.06	22.82				
5	64QAM	12	0	22.70	22.98	22.88				
5	64QAM	12	7	22.97	22.96	23.04	24	0		
5	64QAM	12	13	22.94	22.94	22.76				
5	64QAM	25	0	22.81	22.89	22.91				
5	256QAM	1	0	20.71	20.85	20.68				
5	256QAM	1	12	20.74	20.86	20.74	22	2		
5	256QAM	1	24	20.86	21.02	20.85				
5	256QAM	12	0	20.85	21.03	20.88				
5	256QAM	12	7	20.97	21.01	20.94	22	2		
5	256QAM	12	13	20.86	21.01	20.78				
5	256QAM	25	0	20.82	20.91	20.75				

Band 38 PC2 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	25.45	25.62	25.55	27	0		
20	QPSK	1	49	25.45	25.56	25.46				
20	QPSK	1	99	25.40	25.51	25.38				
20	QPSK	50	0	25.45	25.60	25.49				
20	QPSK	50	24	25.49	25.53	25.43	27	0		
20	QPSK	50	50	25.51	25.55	25.40				
20	QPSK	100	0	25.54	25.59	25.57				
20	16QAM	1	0	25.55	25.58	25.46				
20	16QAM	1	49	25.43	25.46	25.43	27	0		
20	16QAM	1	99	25.27	25.45	25.33				



Band 41 PC3 Ant0 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				39780	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.91	23.04	23.20	22.98	22.79	24	0
20	QPSK	1	49	22.90	22.95	23.08	22.96	22.77		
20	QPSK	1	99	22.92	22.90	23.07	22.96	22.85		
20	QPSK	50	0	23.09	23.01	23.17	23.13	23.00		
20	QPSK	50	24	23.07	23.10	23.13	23.04	22.88	24	0
20	QPSK	50	90	23.07	23.08	23.12	23.08	22.99		
20	QPSK	100	0	23.11	23.02	23.16	23.13	22.98		
20	16QAM	1	0	23.05	22.99	23.12	22.94	22.88		
20	16QAM	1	49	22.90	22.94	23.07	23.04	22.88	24	0
20	16QAM	1	99	23.07	22.96	23.11	22.95	22.81		
20	16QAM	50	0	23.01	23.03	23.14	23.05	22.91		
20	16QAM	50	24	23.11	23.11	23.17	23.10	22.98		
20	16QAM	50	90	23.03	23.05	23.09	23.04	22.78	24	0
20	16QAM	100	0	22.93	23.00	23.11	23.00	22.78		
20	64QAM	1	0	22.97	22.89	23.06	22.98	22.78		
20	64QAM	1	49	23.14	23.01	23.17	23.13	22.84		
20	64QAM	1	99	22.96	23.06	23.12	23.06	22.82	24	0
20	64QAM	50	0	23.10	23.10	23.15	23.11	22.96		
20	64QAM	50	24	22.93	22.96	23.02	22.93	22.75		
20	64QAM	50	90	22.98	22.99	23.10	23.00	22.89		
20	64QAM	100	0	23.15	23.11	23.18	23.16	22.91	24	0
20	256QAM	1	0	21.05	21.05	21.16	20.99	20.91		
20	256QAM	1	49	21.05	21.05	21.12	21.02	20.88		
20	256QAM	1	99	21.02	21.02	21.05	20.90	20.87		
20	256QAM	50	0	20.96	20.97	21.10	20.94	20.86	22	2
20	256QAM	50	24	20.89	20.99	21.03	20.91	20.78		
20	256QAM	50	90	21.14	21.14	21.19	21.11	20.99		
20	256QAM	100	0	21.14	21.12	21.19	21.16	20.99		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.85	22.93	23.08	22.88	22.73	24.00	0
15	QPSK	1	37	22.73	22.83	23.03	22.82	22.65		
15	QPSK	1	74	22.77	22.83	22.98	22.89	22.72		
15	QPSK	36	0	22.86	22.96	23.07	22.94	22.87		
15	QPSK	36	20	22.94	22.98	22.99	22.92	22.77	24	0
15	QPSK	36	39	23.02	22.91	23.03	22.98	22.87		
15	QPSK	75	0	23.01	22.88	23.03	22.95	22.94		
15	16QAM	1	0	22.96	22.95	23.05	22.91	22.77		
15	16QAM	1	37	22.77	22.76	22.94	22.87	22.75	24	0
15	16QAM	1	74	22.90	22.83	22.98	22.88	22.74		
15	16QAM	36	0	22.85	22.96	23.05	22.90	22.89		
15	16QAM	36	20	22.95	23.08	23.11	23.00	22.90		
15	16QAM	36	39	22.94	23.02	22.96	22.95	22.63	24	0
15	16QAM	75	0	22.91	22.97	22.94	22.91	22.72		
15	64QAM	1	0	22.88	22.77	23.00	22.84	22.70		
15	64QAM	1	37	23.03	22.85	23.14	23.10	22.80		
15	64QAM	1	74	22.84	23.03	22.98	22.92	22.76	24	0
15	64QAM	36	0	22.96	22.96	23.07	22.94	22.83		
15	64QAM	36	20	22.84	22.86	22.96	22.86	22.61		
15	64QAM	36	39	22.90	22.93	23.06	22.86	22.72		
15	64QAM	75	0	23.02	22.99	23.01	22.99	22.81	24	0
15	256QAM	1	0	20.88	21.02	21.01	20.88	20.76		
15	256QAM	1	37	20.97	20.96	20.96	20.87	20.75		
15	256QAM	1	74	20.98	20.93	20.87	20.79	20.75		
15	256QAM	36	0	20.87	20.98	21.06	20.78	20.68	22	2
15	256QAM	36	20	20.85	20.88	21.00	20.75	20.74		
15	256QAM	36	39	20.98	20.90	20.97	20.93	20.78		
15	256QAM	75	0	21.03	20.97	21.04	20.98	20.85		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.81	23.02	23.06	22.83	22.64	24.00	0
10	QPSK	1	25	22.80	22.78	22.92	22.85	22.75		
10	QPSK	1	49	22.75	22.75	22.92	22.93	22.68		
10	QPSK	25	0	22.95	22.83	23.01	23.01	22.87		
10	QPSK	25	12	22.94	23.04	22.95	22.93	22.74	24	0
10	QPSK	25	25	23.04	22.98	23.07	23.04	22.71		
10	QPSK	50	0	23.04	22.89	23.05	22.98	22.83		
10	16QAM	1	0	22.99	22.87	22.95	22.83	22.83		
10	16QAM	1	25	22.82	22.79	23.04	22.79	22.79	24	0
10	16QAM	1	49	22.92	22.82	22.98	22.92	22.69		
10	16QAM	25	0	22.90	22.94	22.99	22.91	22.88		
10	16QAM	25	12	23.01	22.96	23.05	23.04	22.85		
10	16QAM	25	25	22.86	22.95	23.00	22.95	22.63	24	0
10	16QAM	50	0	22.90	22.96	23.03	22.92	22.72		
10	64QAM	1	0	22.93	22.76	22.98	22.90	22.72		
10	64QAM	1	25	23.00	22.96	23.13	23.10	22.71		
10	64QAM	1	49	22.85	22.91	23.02	22.95	22.72	24	0
10	64QAM	25	0	22.98	23.04	22.97	22.99	22.92		
10	64QAM	25	12	22.87	22.79	22.98	22.86	22.68		
10	64QAM	25	25	22.88	22.93	22.97	22.92	22.70		
10	64QAM	50	0	23.11	23.06	23.12	23.00	22.87	22	2
10	256QAM	1	0	20.92	20.99	20.98	20.82	20.84		
10	256QAM	1	25	21.00	20.98	20.95	20.87	20.71		
10	256QAM	1	49	20.89	20.87	20.93	20.72	20.76		
10	256QAM	25	0	20.80	20.84	20.97	20.88	20.72	22	2
10	256QAM	25	12	20.73	20.85	20.89	20.89	20.63		
10	256QAM	25	25	20.98	21.03	20.98	20.98	20.76		
10	256QAM	50	0	21.02	21.02	21.03	21.07	20.85		
Channel				39675	40148	40620	41093	41555		
Frequency (MHz)				2498.5	2543	2593	2638.0	2683.5		
5	QPSK	1	0	22.81	22.92	23.16	22.85	22.71	24.00	0
5	QPSK	1	12	22.85	22.82	22.94	22.90	22.68		
5	QPSK	1	24	22.83	22.76	22.98	22.86	22.76		
5	QPSK	12	0	22.99	22.88	23.06	23.02	22.93		
5	QPSK	12	7	22.95	22.93	23.10	22.91	22.71	24	0
5	QPSK	12	13	23.00	23.05	23.08	22.96	22.83		
5	QPSK	25	0	23.00	22.95	23.06	23.11	22.94		
5	16QAM	1	0	22.87	22.84	23.01	22.85	22.72		
5	16QAM	1	12	22.80	22.77	23.00	22.96	22.78	24	0
5	16QAM	1	24	22.90	22.94	22.96	22.89	22.65		
5	16QAM	12	0	22.89	22.89	23.05	22.95	22.76		
5	16QAM	12	7	22.99	22.93	23.02	23.00	22.90		
5	16QAM	12	13	22.87	22.88	22.96	22.87	22.71	24	0
5	16QAM	25	0	22.79	22.93	23.00	22.86	22.61		
5	64QAM	1	0	22.86	22.77	23.01	22.86	22.73		
5	64QAM	1	12	22.99	22.99	23.03	23.10	22.74		
5	64QAM	1	24	22.93	22.98	22.99	22.92	22.70	24	0
5	64QAM	12	0	23.05	22.99	23.08	23.08	22.85		
5	64QAM	12	7	22.82	22.89	22.94	22.89	22.62		
5	64QAM	12	13	22.86	22.84	23.05	22.82	22.73		
5	64QAM	25	0	23.12	23.00	23.05	23.03	22.84	22	2
5	256QAM	1	0	21.02	21.03	21.14	20.90	20.81		
5	256QAM	1	12	20.96	20.88	20.96	20.92	20.80		
5	256QAM	1	24	20.93	20.94	20.93	20.81	20.73		
5	256QAM	12	0	20.88	20.82	21.08	20.88	20.78	22	2
5	256QAM	12	7	20.85	20.82	20.98	20.89	20.68		
5	256QAM	12	13	21.02	21.03	21.09	21.02	20.86		
5	256QAM	25	0	21.02	21.00	21.08	21.12	20.94		

Band 41 PC2 Ant0 DSI2 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low 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		



GSM850 Ant1 DS2 Simultaneous

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	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	30.81	30.95	30.73	32.20	21.81	21.95	21.73	23.20
GPRS 1 Tx slots	30.68	30.82	30.51	32.20	21.69	21.82	21.51	23.20
GPRS 2 Tx slots	27.65	27.68	27.43	29.20	21.65	21.68	21.43	23.20
GPRS 3 Tx slots	25.00	25.12	24.76	25.80	20.74	20.86	20.50	21.54
GPRS 4 Tx slots	24.30	24.36	24.21	26.20	21.30	21.36	21.21	23.20
EDGE 1 Tx slot	25.22	25.27	24.90	26.50	16.22	16.27	15.90	17.50
EDGE 2 Tx slots	23.49	23.54	23.15	25.00	17.49	17.54	17.15	19.00
EDGE 3 Tx slots	22.19	22.28	21.95	23.50	17.93	18.02	17.69	19.24
EDGE 4 Tx slots	20.15	20.24	20.11	22.00	17.15	17.24	17.11	19.00

GSM1900 Ant1 DS2 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	1860	1909.8		1850.2	1860	1909.8	
GSM 1 Tx slot	24.73	25.03	24.86	25.60	15.73	16.03	15.86	16.60
GPRS 1 Tx slots	24.64	24.91	24.77	25.60	15.64	15.91	15.77	16.60
GPRS 2 Tx slots	20.67	20.73	20.60	22.60	14.67	14.73	14.60	16.60
GPRS 3 Tx slots	19.04	19.23	19.16	20.70	14.78	14.97	14.90	16.44
GPRS 4 Tx slots	18.90	19.12	18.98	19.60	15.90	16.12	15.98	16.60
EDGE 1 Tx slot	24.24	24.46	24.33	25.00	15.24	15.46	15.33	16.00
EDGE 2 Tx slots	21.57	21.79	21.66	22.60	15.57	15.79	15.66	16.60
EDGE 3 Tx slots	19.46	19.68	19.64	20.70	15.20	15.42	15.38	16.44
EDGE 4 Tx slots	18.45	18.72	18.61	19.60	15.45	15.72	15.61	16.60

WCDMA II Ant1 DS2 Simultaneous

WCDMA IV Ant1 DS2 Simultaneous

WCDMA V Ant1 DS2 Simultaneous

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9632	9490	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9692	9690	9693		1597	1638	1738		4387	4407	4468	
Frequency (MHz)	1852.4	1860	1907.6		1712.4	1732.6	1752.6		826.4	836.4	866.8	
3GPP Rel 99	AMR 12.2kbps	16.58	16.62	16.50	17.50	15.55	15.68	15.53	16.50	20.72	20.59	24.00
3GPP Rel 99	RMTC 12.2kbps	16.61	16.68	16.30	17.50	15.40	15.70	15.55	16.50	20.80	20.86	20.84
3GPP Rel 6	HSDPA Subtest-1	15.64	15.64	15.61	16.50	14.51	14.64	14.55	15.50	19.62	19.69	19.66
3GPP Rel 6	HSDPA Subtest-2	15.69	15.63	15.58	16.50	14.73	14.56	14.49	15.50	19.84	19.80	19.79
3GPP Rel 6	HSDPA Subtest-3	15.09	15.25	14.89	16.00	14.16	14.11	13.90	15.00	19.38	19.46	19.16
3GPP Rel 6	HSDPA Subtest-4	15.04	15.06	15.02	16.00	13.96	14.07	13.93	15.00	19.34	19.38	19.37
3GPP Rel 8	DC-HSDPA Subtest-1	15.65	15.65	15.68	16.50	14.62	14.58	14.56	15.50	19.65	19.87	19.89
3GPP Rel 8	DC-HSDPA Subtest-2	15.95	15.98	15.57	16.50	14.61	14.69	14.55	15.50	19.93	20.01	19.69
3GPP Rel 8	DC-HSDPA Subtest-3	15.16	15.27	14.99	16.00	14.04	14.12	14.01	15.00	19.41	19.38	19.18
3GPP Rel 6	DC-HSDPA Subtest-4	15.07	15.10	15.00	16.00	14.03	14.06	13.94	15.00	19.23	19.30	19.35
3GPP Rel 6	HSUPA Subtest-1	15.58	15.75	15.78	16.50	14.40	14.68	14.55	15.50	19.69	19.81	19.87
3GPP Rel 6	HSUPA Subtest-2	13.70	13.69	13.48	14.50	12.56	12.85	12.59	13.50	17.79	17.99	17.76
3GPP Rel 6	HSUPA Subtest-3	14.66	14.57	14.74	15.50	13.55	13.99	13.54	14.50	18.91	19.00	18.78
3GPP Rel 6	HSUPA Subtest-4	13.71	13.75	13.72	14.50	12.71	12.83	12.54	13.50	17.76	18.02	17.95
3GPP Rel 6	HSUPA Subtest-5	15.67	15.60	15.58	16.50	14.55	14.69	14.43	15.50	19.81	19.89	19.60



Band 12 Ant1 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.98	22.14	22.02		22.4	0	
10	QPSK	1	25	21.97	22.07	21.92				
10	QPSK	1	49	21.98	22.06	21.98				
10	QPSK	36	0	21.99	22.05	21.99				
10	QPSK	25	12	21.99	22.04	21.98		22.4	0	
10	QPSK	25	25	21.93	22.05	21.95				
10	16QAM	1	0	21.90	22.05	21.91		22.4	0	
10	16QAM	1	25	21.87	21.98	21.84				
10	16QAM	1	49	21.96	21.99	21.92				
10	16QAM	25	0	21.83	21.98	21.84				
10	16QAM	25	12	21.89	22.05	21.91		22.4	0	
10	16QAM	25	25	21.82	21.97	21.85				
10	16QAM	50	0	22.04	22.07	21.98				
10	64QAM	1	0	21.97	22.07	21.93		22.4	0	
10	64QAM	1	25	21.92	22.00	21.85				
10	64QAM	1	49	21.88	22.04	21.89				
10	64QAM	25	0	21.78	21.98	21.82		22.4	0	
10	64QAM	25	12	21.99	22.05	21.91				
10	64QAM	25	25	21.85	21.97	21.85				
10	256QAM	1	0	18.93	18.11	18.92		20.5	1.9	
10	256QAM	1	25	18.90	18.12	18.95				
10	256QAM	1	49	18.91	18.95	18.95				
10	256QAM	25	0	18.91	18.98	18.95		20.5	1.9	
10	256QAM	25	12	18.93	18.98	18.90				
10	256QAM	25	25	18.93	18.98	18.90				
10	256QAM	50	0	18.90	18.12	18.95				
Channel										
Frequency (MHz)										
8	QPSK	1	0	21.81	22.00	21.96		22.4	0	
8	QPSK	1	25	21.82	22.01	21.83				
8	QPSK	1	49	21.85	21.96	21.84				
8	QPSK	12	0	21.77	21.94	21.90		22.4	0	
8	QPSK	12	13	21.88	21.90	21.87				
8	QPSK	25	0	21.82	21.95	21.70		22.4	0	
8	16QAM	1	0	21.82	22.01	21.83				
8	16QAM	1	24	21.74	21.88	21.79		22.4	0	
8	16QAM	1	49	21.85	21.89	21.86				
8	16QAM	12	0	21.75	21.95	21.79		22.4	0	
8	16QAM	12	13	21.86	21.88	21.85				
8	16QAM	25	0	21.91	21.90	21.89		22.4	0	
8	64QAM	1	0	21.89	22.01	21.90		22.4	0	
8	64QAM	1	24	21.85	21.93	21.84				
8	64QAM	12	0	20.91	20.99	20.96		22.4	0	
8	64QAM	12	13	20.85	20.89	20.87				
8	64QAM	25	0	20.79	20.87	20.88		22.4	0	
8	256QAM	1	0	18.97	18.91	18.96		20.5	1.9	
8	256QAM	1	12	18.98	18.91	18.87				
8	256QAM	1	24	18.88	18.92	18.85				
8	256QAM	12	0	18.83	18.95	18.90		20.5	1.9	
8	256QAM	12	7	18.88	18.96	18.87				
8	256QAM	12	13	18.88	18.95	18.85				
8	256QAM	25	0	18.95	18.91	18.95		20.5	1.9	
Channel										
Frequency (MHz)										
14	QPSK	1	0	21.94	22.07	22.03		22.4	0	
14	QPSK	1	8	21.93	21.96	21.94				
14	QPSK	1	16	21.95	21.99	21.96				
14	QPSK	8	0	21.73	22.04	21.99		22.4	0	
14	QPSK	8	4	21.87	21.90	21.84				
14	QPSK	16	0	21.76	21.94	21.87		22.4	0	
14	16QAM	1	0	21.74	21.92	21.88		22.4	0	
14	16QAM	1	14	21.80	21.96	21.78				
14	16QAM	8	0	21.79	21.91	21.89		22.4	0	
14	16QAM	8	4	21.74	21.90	21.77				
14	16QAM	8	7	21.85	21.81	21.86				
14	16QAM	16	0	21.97	21.98	21.90		22.4	0	
14	64QAM	1	0	21.94	22.00	22.01		22.4	0	
14	64QAM	1	8	21.85	21.96	21.89				
14	64QAM	1	14	21.90	21.89	21.82				
14	64QAM	8	0	20.90	20.98	20.94		22.4	0	
14	64QAM	8	4	20.89	20.97	20.86				
14	64QAM	8	7	20.96	20.91	20.94				
14	64QAM	16	0	20.83	20.91	20.85		22.4	0	
14	256QAM	1	0	18.84	18.89	18.87		20.5	1.9	
14	256QAM	1	8	18.83	18.89	18.85				
14	256QAM	1	14	18.92	18.11	18.84				
14	256QAM	8	0	18.88	18.95	18.85		20.5	1.9	
14	256QAM	8	4	18.88	18.95	18.80				
14	256QAM	8	7	18.87	18.83	18.88				
14	256QAM	16	0	18.97	18.93	18.93		20.5	1.9	
Channel										
Frequency (MHz)										
14	QPSK	1	0	21.91	21.95	21.98		22.4	0	
14	QPSK	1	5	21.90	21.95	21.84				
14	QPSK	1	10	21.92	21.92	21.90				
14	QPSK	3	0	21.85	21.93	21.89		22.4	0	
14	QPSK	3	3	21.89	21.95	21.77				
14	QPSK	6	0	21.72	21.95	21.70		22.4	0	
14	16QAM	1	0	21.73	21.95	21.84				
14	16QAM	1	3	21.76	21.93	21.80		22.4	0	
14	16QAM	1	6	21.73	21.92	21.87				
14	16QAM	3	0	21.79	21.92	21.89		22.4	0	
14	16QAM	3	1	21.80	21.96	21.74				
14	16QAM	3	3	21.81	21.89	21.79				
14	16QAM	6	0	21.94	22.04	21.81		22.4	0	
14	64QAM	1	0	21.90	21.98	21.91		22.4	0	
14	64QAM	1	3	21.88	21.88	21.73				
14	64QAM	1	6	21.77	21.98	21.96		22.4	0	
14	64QAM	3	0	21.91	22.01	21.87				
14	64QAM	3	1	21.97	21.98	21.87		22.4	0	
14	64QAM	3	3	21.89	21.88	21.99				
14	256QAM	1	0	18.91	18.91	18.87		20.5	1.9	
14	256QAM	1	3	18.90	18.95	18.81				
14	256QAM	1	6	18.87	18.95	18.83				
14	256QAM	3	0	18.99	18.95	18.84		20.5	1.9	
14	256QAM	3	3	18.90	18.90	18.92				
14	256QAM	6	0	18.88	18.99	18.87		20.5	1.9	

Band 13 Ant1 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.82	21.97	21.85		22	0	
10	QPSK	1	25	21.85	21.92	21.82				
10	QPSK	1	49	21.84	21.91	21.83				
10	QPSK	36	0	21.86	21.95	21.88				
10	QPSK	25	12	21.85	21.93	21.85		22	0	
10	QPSK	25	25	21.81	21.91	21.83				
10	16QAM	1	0	21.72	21.81	21.78		22	0	
10	16QAM	1	25	21.68	21.88	21.76				
10	16QAM	1	49	21.78	21.84	21.75				
10	16QAM	25	0	21.59	21.88	21.80		22	0	
10	16QAM	25	12	21.62	21.80	21.62				
10	16QAM	25	25	21.58	21.80	21.58				
10	16QAM	50	0	21.60	21.80	21.60				
10	64QAM	1	0	21.57	21.79	21.70		22	0	
10	64QAM	1	25	21.51	21.77	21.52				
10	64QAM	1	49	21.58	21.78	21.58				
10	64QAM	25	0	20.53	21.71	21.51		22	0	
10	64QAM	25	12	20.57	21.67	20.57				
10	64QAM	25	25	20.54	21.68	20.54				
10	64QAM	50	0	20.48	21.68	20.48				
10	256QAM	1	0	18.92	18.90	18.92		20.5	1.9	
10	256QAM	1	25	18.86	18.89	18.79				
10	256QAM	1								



Band 26 Ant1 DS12 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.	Tune-up (MHz)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.80	20.88	20.79	22.2	0		
15	QPSK	1	37	20.82	20.90	20.79				
15	QPSK	1	74	20.70	20.83	20.70				
15	QPSK	3	0	20.80	20.88	20.83				
15	QPSK	3	37	20.71	20.88	20.83				
15	QPSK	3	74	20.76	20.85	20.72				
15	QPSK	75	0	20.65	20.85	20.85				
15	HQAM	1	0	20.68	20.83	20.79				
15	HQAM	1	37	20.76	20.89	20.78				
15	HQAM	1	74	20.71	20.91	20.83				
15	HQAM	3	0	20.74	20.85	20.78				
15	HQAM	3	37	20.77	20.89	20.74				
15	HQAM	3	74	20.80	20.96	20.86				
15	HQAM	75	0	20.60	20.94	20.79				
15	HQAM	1	0	20.67	20.87	20.86				
15	HQAM	1	37	20.71	20.89	20.71				
15	HQAM	1	74	20.84	20.88	20.80				
15	HQAM	3	0	20.72	20.88	20.74				
15	HQAM	3	37	20.75	20.93	20.78				
15	HQAM	3	74	20.78	20.91	20.87				
15	HQAM	75	0	20.68	20.92	20.87				
15	ZS-QAM	1	0	18.82	18.94	18.84	20.5	1.7		
15	ZS-QAM	1	37	18.86	18.97	18.86				
15	ZS-QAM	1	74	18.87	18.93	18.84				
15	ZS-QAM	3	0	18.85	18.97	18.84				
15	ZS-QAM	3	37	18.88	18.93	18.86				
15	ZS-QAM	3	74	18.89	18.93	18.86				
15	ZS-QAM	75	0	18.88	18.97	18.84				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.88	20.88	20.63	22.2	0		
10	QPSK	1	37	20.88	20.88	20.63				
10	QPSK	1	74	20.62	20.74	20.61				
10	QPSK	3	0	20.72	20.90	20.82				
10	QPSK	3	37	20.65	20.77	20.68				
10	QPSK	3	74	20.73	20.90	20.68				
10	QPSK	75	0	20.65	20.77	20.68				
10	HQAM	1	0	20.63	20.88	20.74				
10	HQAM	1	37	20.68	20.86	20.74				
10	HQAM	1	74	20.69	20.96	20.73				
10	HQAM	3	0	20.61	20.71	20.63				
10	HQAM	3	37	20.64	20.81	20.68				
10	HQAM	3	74	20.66	20.80	20.68				
10	HQAM	75	0	20.72	20.90	20.73				
10	HQAM	1	0	20.75	20.87	20.82				
10	HQAM	1	37	20.67	20.87	20.82				
10	HQAM	1	74	20.80	20.86	20.75				
10	HQAM	3	0	20.67	20.76	20.70				
10	HQAM	3	37	20.65	20.85	20.84				
10	HQAM	3	74	20.74	20.83	20.84				
10	HQAM	75	0	20.85	20.89	20.75				
10	ZS-QAM	1	0	18.79	18.91	18.77	20.5	1.7		
10	ZS-QAM	1	37	18.81	18.95	18.88				
10	ZS-QAM	1	74	18.78	18.93	18.71				
10	ZS-QAM	3	0	18.75	18.93	18.84				
10	ZS-QAM	3	37	18.80	18.90	18.84				
10	ZS-QAM	3	74	18.85	18.95	18.85				
10	ZS-QAM	75	0	18.88	18.95	18.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.88	20.86	20.77	22.2	0		
5	QPSK	1	37	20.67	20.86	20.63				
5	QPSK	1	74	20.69	20.73	20.69				
5	QPSK	3	0	20.71	20.84	20.80				
5	QPSK	3	37	20.63	20.84	20.77				
5	QPSK	3	74	20.72	20.88	20.80				
5	QPSK	75	0	20.63	20.81	20.80				
5	HQAM	1	0	20.57	20.80	20.65				
5	HQAM	1	37	20.68	20.83	20.67				
5	HQAM	1	74	20.69	20.88	20.71				
5	HQAM	3	0	20.64	20.76	20.64				
5	HQAM	3	37	20.66	20.80	20.64				
5	HQAM	3	74	20.68	20.78	20.64				
5	HQAM	75	0	20.80	20.87	20.84				
5	HQAM	1	0	20.84	20.78	20.78				
5	HQAM	1	37	20.84	20.87	20.69				
5	HQAM	1	74	20.57	20.85	20.57				
5	HQAM	3	0	20.71	20.77	20.67				
5	HQAM	3	37	20.62	20.77	20.67				
5	HQAM	3	74	20.73	20.81	20.73				
5	HQAM	75	0	20.72	20.78	20.62				
5	HQAM	1	0	20.71	20.75	20.78				
5	HQAM	1	37	20.71	20.75	20.78				
5	HQAM	1	74	20.67	20.87	20.80				
5	ZS-QAM	1	0	18.77	18.97	18.86	20.5	1.7		
5	ZS-QAM	1	37	18.82	18.91	18.83				
5	ZS-QAM	1	74	18.82	18.98	18.86				
5	ZS-QAM	3	0	18.82	18.94	18.86				
5	ZS-QAM	3	37	18.72	18.99	18.78				
5	ZS-QAM	3	74	18.79	18.92	18.81				
5	ZS-QAM	75	0	18.88	18.94	18.86				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.88	20.86	20.62	22.2	0		
3	QPSK	1	37	20.67	20.78	20.73				
3	QPSK	1	74	20.82	20.78	20.73				
3	QPSK	3	0	20.58	20.86	20.68				
3	QPSK	3	37	20.68	20.86	20.61				
3	QPSK	3	74	20.57	20.85	20.80				
3	QPSK	75	0	20.63	20.75	20.70				
3	HQAM	1	0	20.64	20.75	20.69				
3	HQAM	1	37	20.65	20.73	20.74				
3	HQAM	1	74	20.66	20.86	20.67				
3	HQAM	3	0	20.65	20.77	20.64				
3	HQAM	3	37	20.67	20.79	20.62				
3	HQAM	3	74	20.68	20.84	20.76				
3	HQAM	75	0	20.75	20.81	20.65				
3	HQAM	1	0	20.74	20.83	20.69				
3	HQAM	1	37	20.62	20.81	20.62				
3	HQAM	1	74	20.80	20.74	20.73				
3	HQAM	3	0	20.64	20.78	20.73				
3	HQAM	3	37	20.70	20.84	20.74				
3	HQAM	3	74	20.65	20.81	20.74				
3	HQAM	75	0	20.84	20.78	20.73				
3	HQAM	1	0	20.80	20.81	20.74				
3	HQAM	1	37	20.65	20.78	20.71				
3	HQAM	1	74	20.72	20.87	20.80				
3	ZS-QAM	1	0	18.78	18.91	18.81	20.5	1.7		
3	ZS-QAM	1	37	18.82	18.94	18.84				
3	ZS-QAM	1	74	18.81	18.98	18.86				
3	ZS-QAM	3	0	18.82	18.90	18.82				
3	ZS-QAM	3	37	18.87	18.90	18.81				
3	ZS-QAM	3	74	18.85	18.90	18.81				
3	ZS-QAM	75	0	18.80	18.93	18.89				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.50	20.96	20.67	22.2	0		
1.4	QPSK	1	37	20.70	20.87	20.79				
1.4	QPSK	1	74	20.76	20.89	20.79				
1.4	QPSK	3	0	20.67	20.72	20.74				
1.4	QPSK	3	37	20.68	20.78	20.68				
1.4	QPSK	3	74	20.65	20.75	20.63				
1.4	QPSK	75	0	20.65	20.65	20.75				
1.4	HQAM	1	0	20.60	20.76	20.63				
1.4	HQAM	1	37	20.60	20.76	20.71				
1.4	HQAM	1	74	20.67	20.89	20.63				
1.4	HQAM	3	0	20.67	20.80	20.63				
1.4	HQAM	3	37	20.61	20.81	20.70				
1.4	HQAM	3	74	20.70	20.86	20.62				
1.4</										



Band 38 PC3 Ant1 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	16.64	16.70	16.67	18.3	0		
20	QPSK	1	49	16.62	16.66	16.52				
20	QPSK	1	99	16.58	16.65	16.48				
20	QPSK	50	0	16.49	16.60	16.47				
20	QPSK	50	24	16.45	16.55	16.39	18.3	0		
20	QPSK	50	50	16.44	16.56	16.50				
20	QPSK	100	0	16.52	16.56	16.40				
20	16QAM	1	0	16.53	16.56	16.52	18.3	0		
20	16QAM	1	49	16.49	16.66	16.51				
20	16QAM	1	99	16.49	16.66	16.64				
20	16QAM	50	0	16.48	16.54	16.39				
20	16QAM	50	24	16.47	16.61	16.57	18.3	0		
20	16QAM	50	50	16.53	16.58	16.47				
20	16QAM	100	0	16.63	16.65	16.58				
20	64QAM	1	0	16.48	16.54	16.37	18.3	0		
20	64QAM	1	49	16.55	16.63	16.51				
20	64QAM	1	99	16.51	16.55	16.49				
20	64QAM	50	0	16.44	16.55	16.52				
20	64QAM	50	24	16.57	16.64	16.54	18.3	0		
20	64QAM	50	50	16.53	16.58	16.41				
20	64QAM	100	0	16.57	16.64	16.56				
20	256QAM	1	0	16.42	16.53	16.45	18.3	0		
20	256QAM	1	49	16.60	16.68	16.66				
20	256QAM	1	99	16.47	16.56	16.52				
20	256QAM	50	0	16.54	16.65	16.55				
20	256QAM	50	24	16.50	16.59	16.44	18.3	0		
20	256QAM	50	50	16.49	16.57	16.43				
20	256QAM	100	0	16.61	16.64	16.51				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	16.47	16.61	16.59	18.3	0		
15	QPSK	1	37	16.52	16.48	16.38				
15	QPSK	1	74	16.44	16.48	16.44				
15	QPSK	36	0	16.34	16.44	16.41	18.3	0		
15	QPSK	36	20	16.41	16.38	16.33				
15	QPSK	36	39	16.38	16.54	16.40				
15	QPSK	75	0	16.40	16.49	16.31	18.3	0		
15	16QAM	1	0	16.43	16.40	16.38				
15	16QAM	1	37	16.32	16.59	16.39	18.3	0		
15	16QAM	1	74	16.38	16.49	16.50				
15	16QAM	36	0	16.46	16.38	16.34	18.3	0		
15	16QAM	36	20	16.40	16.50	16.47				
15	16QAM	36	39	16.42	16.47	16.44				
15	16QAM	75	0	16.56	16.53	16.53	18.3	0		
15	64QAM	1	0	16.31	16.41	16.39				
15	64QAM	1	37	16.48	16.60	16.41	18.3	0		
15	64QAM	1	74	16.40	16.39	16.45				
15	64QAM	36	0	16.33	16.38	16.46	18.3	0		
15	64QAM	36	20	16.55	16.52	16.39				
15	64QAM	36	39	16.48	16.49	16.43				
15	64QAM	75	0	16.39	16.57	16.43	18.3	0		
15	256QAM	1	0	16.35	16.41	16.40				
15	256QAM	1	37	16.57	16.57	16.61	18.3	0		
15	256QAM	1	74	16.36	16.43	16.44				
15	256QAM	36	0	16.44	16.33	16.39	18.3	0		
15	256QAM	36	20	16.34	16.43	16.38				
15	256QAM	36	39	16.35	16.54	16.39				
15	256QAM	75	0	16.54	16.47	16.36	18.3	0		
15	256QAM	75	0	16.54	16.47	16.36				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	16.50	16.61	16.62	18.3	0		
10	QPSK	1	25	16.53	16.57	16.49				
10	QPSK	1	49	16.48	16.48	16.42				
10	QPSK	25	0	16.47	16.45	16.44	18.3	0		
10	QPSK	25	12	16.34	16.37	16.39				
10	QPSK	25	25	16.34	16.43	16.47				
10	QPSK	50	0	16.38	16.39	16.36	18.3	0		
10	16QAM	1	0	16.43	16.42	16.38				
10	16QAM	1	25	16.45	16.60	16.39	18.3	0		
10	16QAM	1	49	16.33	16.54	16.52				
10	16QAM	25	0	16.35	16.48	16.37	18.3	0		
10	16QAM	25	12	16.44	16.45	16.42				
10	16QAM	25	25	16.33	16.54	16.33				
10	16QAM	50	0	16.59	16.57	16.44	18.3	0		
10	64QAM	1	0	16.33	16.45	16.32				
10	64QAM	1	25	16.37	16.58	16.38	18.3	0		
10	64QAM	1	49	16.38	16.39	16.44				
10	64QAM	25	0	16.33	16.41	16.49	18.3	0		
10	64QAM	25	12	16.45	16.57	16.39				
10	64QAM	25	25	16.38	16.46	16.44				
10	64QAM	50	0	16.45	16.55	16.44	18.3	0		
10	256QAM	1	0	16.36	16.35	16.42				
10	256QAM	1	25	16.49	16.53	16.36	18.3	0		
10	256QAM	1	49	16.32	16.42	16.45				
10	256QAM	25	0	16.48	16.47	16.48				
10	256QAM	25	12	16.32	16.42	16.35	18.3	0		
10	256QAM	25	25	16.32	16.41	16.37				
10	256QAM	50	0	16.55	16.55	16.39				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	16.57	16.65	16.64	18.3	0		
5	QPSK	1	12	16.60	16.54	16.49				
5	QPSK	1	24	16.47	16.51	16.42				
5	QPSK	12	0	16.38	16.57	16.42	18.3	0		
5	QPSK	12	7	16.31	16.43	16.36				
5	QPSK	12	13	16.38	16.41	16.41	18.3	0		
5	QPSK	25	0	16.50	16.40	16.32				
5	16QAM	1	0	16.42	16.38	16.42	18.3	0		
5	16QAM	1	12	16.41	16.51	16.41				
5	16QAM	1	24	16.40	16.54	16.47				
5	16QAM	12	0	16.39	16.46	16.33	18.3	0		
5	16QAM	12	7	16.35	16.57	16.41				
5	16QAM	12	13	16.43	16.52	16.33				
5	16QAM	25	0	16.60	16.48	16.40	18.3	0		
5	64QAM	1	0	16.37	16.47	16.32				
5	64QAM	1	12	16.44	16.47	16.47	18.3	0		
5	64QAM	1	24	16.35	16.47	16.43				
5	64QAM	12	0	16.37	16.48	16.37	18.3	0		
5	64QAM	12	7	16.45	16.56	16.47				
5	64QAM	12	13	16.46	16.49	16.38				
5	64QAM	25	0	16.47	16.54	16.51	18.3	0		
5	256QAM	1	0	16.34	16.44	16.39				
5	256QAM	1	12	16.42	16.61	16.52	18.3	0		
5	256QAM	1	24	16.39	16.52	16.34				
5	256QAM	12	0	16.49	16.60	16.41				
5	256QAM	12	7	16.48	16.53	16.38	18.3	0		
5	256QAM	12	13	16.31	16.51	16.36				
5	256QAM	25	0	16.56	16.62	16.40				

Band 38 PC2 Ant1 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	18.31	18.47	18.26	19.9	0		
20	QPSK	1	49	18.23	18.36	18.19				
20	QPSK	1	99	18.32	18.39	18.27				
20	QPSK	50	0	18.41	18.43	18.25	19.9	0		
20	QPSK	50	24	18.29	18.40	18.28				
20	QPSK	50	50	18.32	18.37	18.29				
20	QPSK	100	0	18.30	18.34	18.30				
20	16QAM	1	0	18.27	18.37	18.26	19.9	0		
20	16QAM	1	49	18.24	18.32	18.17				
20	16QAM	1	99	18.31	18.34	18.29				
20	16QAM	50	0	18.23	18.40	18.25	19.9	0		
20										



Band 41 PC3 Ant1 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				39760	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	16.53	16.58	16.73	16.44	16.35	18.3	0
20	QPSK	1	49	16.43	16.46	16.61	16.41	16.34		
20	QPSK	1	99	16.55	16.60	16.64	16.47	16.37	18.3	0
20	QPSK	50	0	16.62	16.67	16.69	16.56	16.56		
20	QPSK	50	24	16.54	16.56	16.68	16.50	16.49	18.3	0
20	QPSK	50	90	16.54	16.59	16.56	16.35	16.43		
20	QPSK	100	0	16.68	16.59	16.71	16.57	16.48	18.3	0
20	16QAM	1	0	16.62	16.60	16.70	16.54	16.51		
20	16QAM	1	49	16.48	16.45	16.59	16.32	16.36	18.3	0
20	16QAM	1	99	16.60	16.53	16.70	16.44	16.53		
20	16QAM	50	0	16.57	16.63	16.67	16.49	16.52	18.3	0
20	16QAM	50	24	16.49	16.60	16.62	16.39	16.39		
20	16QAM	50	90	16.54	16.58	16.67	16.47	16.41	18.3	0
20	16QAM	100	0	16.38	16.42	16.55	16.33	16.36		
20	64QAM	1	0	16.57	16.53	16.63	16.48	16.44	18.3	0
20	64QAM	1	49	16.62	16.53	16.69	16.51	16.52		
20	64QAM	1	99	16.53	16.61	16.64	16.46	16.52	18.3	0
20	64QAM	50	0	16.51	16.53	16.66	16.46	16.45		
20	64QAM	50	24	16.55	16.52	16.64	16.49	16.41	18.3	0
20	64QAM	50	90	16.53	16.51	16.65	16.44	16.48		
20	64QAM	100	0	16.46	16.52	16.58	16.32	16.44	18.3	0
20	256QAM	1	0	16.57	16.48	16.63	16.38	16.42		
20	256QAM	1	49	16.68	16.62	16.71	16.55	16.52	18.3	0
20	256QAM	1	99	16.58	16.46	16.61	16.39	16.40		
20	256QAM	50	0	16.66	16.60	16.71	16.47	16.49	18.3	0
20	256QAM	50	24	16.45	16.46	16.62	16.38	16.46		
20	256QAM	50	90	16.44	16.47	16.64	16.44	16.42	18.3	0
20	256QAM	100	0	16.60	16.52	16.69	16.52	16.42		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.40	16.43	16.67	16.34	16.39	18.30	0
15	QPSK	1	37	16.40	16.39	16.44	16.39	16.38		
15	QPSK	1	74	16.52	16.45	16.58	16.39	16.33	18.3	0
15	QPSK	36	0	16.39	16.50	16.58	16.44	16.42		
15	QPSK	36	20	16.49	16.39	16.54	16.38	16.35	18.3	0
15	QPSK	36	39	16.32	16.33	16.52	16.38	16.30		
15	QPSK	75	0	16.53	16.56	16.56	16.50	16.40	18.3	0
15	16QAM	1	0	16.54	16.49	16.67	16.46	16.36		
15	16QAM	1	37	16.37	16.31	16.49	16.39	16.36	18.3	0
15	16QAM	1	74	16.51	16.47	16.65	16.39	16.45		
15	16QAM	36	0	16.51	16.51	16.59	16.36	16.43	18.3	0
15	16QAM	36	20	16.40	16.45	16.56	16.36	16.32		
15	16QAM	36	39	16.47	16.47	16.51	16.31	16.33	18.3	0
15	16QAM	75	0	16.34	16.34	16.38	16.37	16.32		
15	64QAM	1	0	16.50	16.35	16.59	16.41	16.42	18.3	0
15	64QAM	1	37	16.57	16.43	16.60	16.39	16.36		
15	64QAM	1	74	16.50	16.54	16.47	16.42	16.38	18.3	0
15	64QAM	36	0	16.39	16.38	16.43	16.38	16.38		
15	64QAM	36	20	16.53	16.35	16.61	16.36	16.33	18.3	0
15	64QAM	36	39	16.46	16.41	16.50	16.33	16.44		
15	64QAM	75	0	16.43	16.46	16.45	16.33	16.31	18.3	0
15	256QAM	1	0	16.43	16.39	16.47	16.34	16.37		
15	256QAM	1	37	16.57	16.59	16.56	16.51	16.38	18.3	0
15	256QAM	1	74	16.53	16.31	16.47	16.39	16.35		
15	256QAM	36	0	16.39	16.35	16.59	16.33	16.32	18.3	0
15	256QAM	36	20	16.31	16.34	16.58	16.32	16.32		
15	256QAM	36	39	16.39	16.45	16.52	16.35	16.36	18.3	0
15	256QAM	75	0	16.45	16.49	16.56	16.41	16.37		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.50	16.55	16.56	16.39	16.32	18.30	0
10	QPSK	1	25	16.36	16.44	16.52	16.35	16.31		
10	QPSK	1	49	16.48	16.52	16.53	16.44	16.37	18.3	0
10	QPSK	25	0	16.45	16.53	16.53	16.50	16.44		
10	QPSK	25	12	16.37	16.54	16.57	16.42	16.41	18.3	0
10	QPSK	25	25	16.32	16.32	16.52	16.32	16.37		
10	QPSK	50	0	16.63	16.54	16.61	16.48	16.37	18.3	0
10	16QAM	1	0	16.51	16.46	16.58	16.50	16.34		
10	16QAM	1	25	16.44	16.39	16.43	16.39	16.38	18.3	0
10	16QAM	1	49	16.52	16.49	16.59	16.34	16.45		
10	16QAM	25	0	16.44	16.57	16.56	16.43	16.39	18.3	0
10	16QAM	25	12	16.40	16.44	16.57	16.35	16.32		
10	16QAM	25	25	16.51	16.42	16.56	16.31	16.32	18.3	0
10	16QAM	50	0	16.36	16.37	16.42	16.36	16.31		
10	64QAM	1	0	16.53	16.48	16.53	16.40	16.36	18.3	0
10	64QAM	1	25	16.52	16.42	16.50	16.42	16.44		
10	64QAM	1	49	16.49	16.47	16.50	16.37	16.41	18.3	0
10	64QAM	25	0	16.40	16.45	16.60	16.30	16.31		
10	64QAM	25	12	16.39	16.42	16.56	16.42	16.33	18.3	0
10	64QAM	25	25	16.58	16.38	16.56	16.47	16.40		
10	64QAM	50	0	16.32	16.44	16.52	16.32	16.38	18.3	0
10	256QAM	1	0	16.54	16.37	16.47	16.35	16.39		
10	256QAM	1	25	16.62	16.51	16.56	16.50	16.41	18.3	0
10	256QAM	1	49	16.55	16.33	16.46	16.37	16.38		
10	256QAM	25	0	16.61	16.52	16.60	16.34	16.41	18.3	0
10	256QAM	25	12	16.37	16.35	16.47	16.39	16.31		
10	256QAM	25	25	16.37	16.46	16.43	16.30	16.31	18.3	0
10	256QAM	50	0	16.43	16.44	16.55	16.46	16.35		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2543	2593	2638.0	2683.5		
5	QPSK	1	0	16.41	16.53	16.57	16.35	16.37	18.30	0
5	QPSK	1	12	16.39	16.39	16.44	16.33	16.32		
5	QPSK	1	24	16.47	16.54	16.55	16.40	16.31	18.3	0
5	QPSK	12	0	16.45	16.50	16.63	16.46	16.54		
5	QPSK	12	7	16.39	16.46	16.57	16.47	16.33	18.3	0
5	QPSK	12	13	16.32	16.38	16.43	16.38	16.32		
5	QPSK	25	0	16.62	16.53	16.54	16.40	16.33	18.3	0
5	16QAM	1	0	16.51	16.52	16.66	16.38	16.40		
5	16QAM	1	12	16.45	16.37	16.51	16.36	16.37	18.3	0
5	16QAM	1	24	16.45	16.45	16.57	16.35	16.43		
5	16QAM	12	0	16.40	16.46	16.63	16.33	16.44	18.3	0
5	16QAM	12	7	16.47	16.51	16.57	16.34	16.37		
5	16QAM	12	13	16.48	16.48	16.61	16.35	16.34	18.3	0
5	16QAM	25	0	16.38	16.39	16.42	16.30	16.31		
5	64QAM	1	0	16.53	16.44	16.46	16.46	16.39	18.3	0
5	64QAM	1	12	16.59	16.40	16.53	16.38	16.43		
5	64QAM	1	24	16.38	16.51	16.59	16.34	16.46	18.3	0
5	64QAM	12	0	16.44	16.41	16.50	16.36	16.32		
5	64QAM	12	7	16.40	16.35	16.60	16.33	16.34	18.3	0
5	64QAM	12	13	16.57	16.43	16.49	16.44	16.42		
5	64QAM	25	0	16.43	16.46	16.45	16.32	16.34	18.3	0
5	64QAM	25	0	16.40	16.32	16.58	16.38	16.39		
5	256QAM	1	12	16.55	16.45	16.55	16.49	16.43	18.3	0
5	256QAM	1	24	16.49	16.40	16.44	16.35	16.3		



Band 42 Part96 Ant2 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				43100	43340	43490				
Frequency (MHz)				3560	3575	3590				
20	QPSK	1	0	20.32	20.57	20.23	21.1	0		
20	QPSK	1	49	20.20	20.37	20.34				
20	QPSK	1	99	20.09	20.41	20.18				
20	QPSK	50	0	20.20	20.50	20.28	21.1	0		
20	QPSK	50	24	20.24	20.26	20.22				
20	QPSK	50	50	20.24	20.28	20.28				
20	QPSK	100	0	20.10	20.42	20.35	21.1	0		
20	16QAM	1	0	20.26	20.27	20.18				
20	16QAM	1	49	20.19	20.32	20.13	21.1	0		
20	16QAM	1	99	20.02	20.14	19.97				
20	16QAM	50	0	20.35	20.18	20.16	21.1	0		
20	16QAM	50	24	20.35	20.16	20.27				
20	16QAM	50	50	19.96	20.25	20.14				
20	16QAM	100	0	19.54	19.57	19.58	21.1	0		
20	64QAM	1	0	20.25	20.38	20.32				
20	64QAM	1	49	20.31	20.30	20.27	21.1	0		
20	64QAM	1	99	20.18	20.31	20.10				
20	64QAM	50	0	20.26	20.28	20.20	20.5	0.6		
20	64QAM	50	24	20.34	20.24	20.23				
20	64QAM	50	50	20.34	20.33	20.21				
20	64QAM	100	0	18.57	18.58	18.60	19	2.1		
20	256QAM	1	0	18.38	18.49	18.46				
20	256QAM	1	49	18.41	18.38	18.42	19	2.1		
20	256QAM	1	99	18.17	18.31	18.20				
20	256QAM	50	0	18.24	18.57	18.33	19	2.1		
20	256QAM	50	24	18.55	18.48	18.52				
20	256QAM	50	50	18.29	18.37	18.28				
20	256QAM	100	0	18.48	18.43	18.50				
Channel				43165	43340	43515				
Frequency (MHz)				3557.5	3575	3592.5				
15	QPSK	1	0	20.39	20.44	20.22	21.1	0		
15	QPSK	1	37	20.23	20.28	20.15				
15	QPSK	1	74	20.03	20.29	20.09	21.1	0		
15	QPSK	36	0	20.33	20.39	20.08				
15	QPSK	36	20	20.29	20.19	20.15	21.1	0		
15	QPSK	36	39	20.11	20.21	20.15				
15	QPSK	75	0	20.04	20.24	20.13	21.1	0		
15	16QAM	1	0	20.14	20.32	20.34				
15	16QAM	1	37	20.08	20.16	20.11	21.1	0		
15	16QAM	1	74	19.92	20.11	20.05				
15	16QAM	36	0	20.30	20.14	20.23	21.1	0		
15	16QAM	36	20	20.19	20.16	20.16				
15	16QAM	36	39	20.02	20.21	20.12	21.1	0		
15	16QAM	75	0	20.21	20.24	20.22				
15	64QAM	1	0	20.28	20.34	20.16	21.1	0		
15	64QAM	1	37	20.08	20.23	20.29				
15	64QAM	1	74	20.10	20.19	20.08	20.5	0.6		
15	64QAM	36	0	20.19	20.35	20.35				
15	64QAM	36	20	20.38	20.28	20.32	19	2.1		
15	64QAM	36	39	20.25	20.33	20.20				
15	64QAM	75	0	20.26	20.24	20.15	19	2.1		
15	256QAM	1	0	18.40	18.50	18.25				
15	256QAM	1	37	18.35	18.34	18.25	19	2.1		
15	256QAM	1	74	18.30	18.18	18.22				
15	256QAM	36	0	18.33	18.44	18.31	19	2.1		
15	256QAM	36	20	18.19	18.49	18.29				
15	256QAM	36	39	18.09	18.24	18.18	19	2.1		
15	256QAM	75	0	18.20	18.24	18.31				
Channel				43140	43340	43540				
Frequency (MHz)				3555	3575	3595				
10	QPSK	1	0	20.37	20.30	20.25	21.1	0		
10	QPSK	1	25	20.13	20.15	20.15				
10	QPSK	1	49	20.17	20.28	20.16	21.1	0		
10	QPSK	25	0	20.27	20.42	20.17				
10	QPSK	25	12	20.16	20.44	20.10	21.1	0		
10	QPSK	25	25	20.05	20.27	20.14				
10	QPSK	50	0	20.19	20.36	20.23	21.1	0		
10	16QAM	1	0	20.13	20.24	20.24				
10	16QAM	1	25	20.19	20.32	20.12	21.1	0		
10	16QAM	1	49	19.94	20.25	20.02				
10	16QAM	25	0	20.27	20.25	20.18	21.1	0		
10	16QAM	25	12	20.20	20.29	20.12				
10	16QAM	25	25	20.10	20.08	20.09	21.1	0		
10	16QAM	50	0	20.20	20.26	20.28				
10	64QAM	1	0	20.05	20.23	20.10	21.1	0		
10	64QAM	1	25	20.21	20.14	20.31				
10	64QAM	1	49	20.08	20.13	20.05	20.5	0.6		
10	64QAM	25	0	20.30	20.37	20.41				
10	64QAM	25	12	20.28	20.28	20.37	19	2.1		
10	64QAM	25	25	20.12	20.30	20.22				
10	64QAM	50	0	20.10	20.30	20.22	19	2.1		
10	256QAM	1	0	18.32	18.45	18.29				
10	256QAM	1	25	18.40	18.37	18.20	19	2.1		
10	256QAM	1	49	18.24	18.27	18.23				
10	256QAM	25	0	18.36	18.42	18.28	19	2.1		
10	256QAM	25	12	18.22	18.38	18.33				
10	256QAM	25	25	18.22	18.26	18.23	19	2.1		
10	256QAM	50	0	18.19	18.40	18.25				
Channel				43115	43340	43565				
Frequency (MHz)				3522.5	3575	3597.5				
5	QPSK	1	0	20.38	20.34	20.22	21.1	0		
5	QPSK	1	12	20.19	20.13	20.20				
5	QPSK	1	24	20.22	20.19	19.99	21.1	0		
5	QPSK	12	0	20.27	20.40	20.19				
5	QPSK	12	7	20.16	20.23	20.11	21.1	0		
5	QPSK	12	13	20.20	20.19	20.18				
5	QPSK	25	0	20.10	20.36	20.15	21.1	0		
5	16QAM	1	0	20.21	20.23	20.23				
5	16QAM	1	12	20.16	20.25	20.15	21.1	0		
5	16QAM	1	24	20.07	20.15	19.97				
5	16QAM	12	0	20.38	20.42	20.17	21.1	0		
5	16QAM	12	7	20.06	20.30	20.07				
5	16QAM	12	13	20.06	20.20	20.09	21.1	0		
5	16QAM	25	0	20.12	20.25	20.22				
5	64QAM	1	0	20.15	20.23	20.12	21.1	0		
5	64QAM	1	12	20.27	20.28	20.31				
5	64QAM	1	24	20.10	20.26	20.04	20.5	0.6		
5	64QAM	12	0	20.28	20.33	20.37				
5	64QAM	12	7	20.29	20.28	20.36	19	2.1		
5	64QAM	12	13	20.05	20.34	20.25				
5	64QAM	25	0	20.25	20.37	20.22	19	2.1		
5	256QAM	1	0	18.33	18.54	18.26				
5	256QAM	1	12	18.29	18.39	18.32	19	2.1		
5	256QAM	1	24	18.33	18.24	18.20				
5	256QAM	12	0	18.22	18.43	18.39	19	2.1		
5	256QAM	12	7	18.29	18.37	18.24				
5	256QAM	12	13	18.09	18.11	18.20	19	2.1		
5	256QAM	25	0	18.20	18.41	18.17				

Band 42 Part27Q Ant2 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				42100	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	20.38	20.65	20.33	21.1	0		
20	QPSK	1	49	20.28	20.43	20.41				
20	QPSK	1	99	20.23	20.46	20.32	21.1	0		
20	QPSK	50	0	20.35	20.56	20.40				
20	QPSK	50	24	20.37	20.38	20.32	21.1	0		
20	QPSK	50	50	20.35	20.43	20.36				
20	QPSK	100	0	20.21	20.53	20.49	21.1	0		
20	16QAM	1	0	20.36	20.37	20.29				
20	16QAM	1	49	20.27	20.40	20.25	21.1	0		
20	16QAM	1	99	20.10	20.23	20.10				
20	16QAM	50	0	20.47	20.29	20.26	21.1	0		
20	16QAM	50	24	20.49	20.28	20.33				
20	16QAM	50	50	20.09	20.40	20.23	21.1	0		
20	16QAM	100	0	19.6						



Band 43 Ant2 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				43590	43990	44390			
Frequency (MHz)				3610	3650	3690			
20	QPSK	1	0	20.51	20.73	20.49	21.1	0	
20	QPSK	1	49	20.54	20.43	20.38			
20	QPSK	1	99	20.53	20.54	20.49			
20	QPSK	50	0	20.50	20.69	20.58			
20	QPSK	50	24	20.62	20.67	20.57	21.1	0	
20	QPSK	50	50	20.56	20.48	20.46			
20	QPSK	100	0	20.51	20.65	20.55			
20	16QAM	1	0	20.42	20.44	20.48			
20	16QAM	1	49	20.52	20.47	20.33	21.1	0	
20	16QAM	1	99	20.34	20.59	20.50			
20	16QAM	50	0	20.30	20.48	20.22			
20	16QAM	50	24	20.36	20.37	20.27			
20	16QAM	50	50	20.28	20.33	20.33	21.1	0	
20	16QAM	100	0	19.54	19.58	19.70			
20	64QAM	1	0	20.61	20.55	20.51			
20	64QAM	1	49	20.48	20.50	20.45			
20	64QAM	1	99	20.55	20.54	20.65	21.1	0	
20	64QAM	50	0	20.36	20.44	20.35			
20	64QAM	50	24	20.37	20.45	20.49			
20	64QAM	50	50	20.40	20.47	20.37			
20	64QAM	100	0	18.66	18.70	18.64	20.5	0.6	
20	256QAM	1	0	18.45	18.46	18.43			
20	256QAM	1	49	18.40	18.68	18.48			
20	256QAM	1	99	18.35	18.52	18.40			
20	256QAM	50	0	18.50	18.60	18.64	19	2.1	
20	256QAM	50	24	18.58	18.68	18.67			
20	256QAM	50	50	18.43	18.53	18.53			
20	256QAM	100	0	18.61	18.57	18.64			
Channel				43565	43990	44415			
Frequency (MHz)				3607.5	3650	3692.5			
15	QPSK	1	0	20.49	20.68	20.46	21.1	0	
15	QPSK	1	37	20.32	20.40	20.35			
15	QPSK	1	74	20.23	20.61	20.48			
15	QPSK	36	0	20.45	20.44	20.36			
15	QPSK	36	20	20.45	20.56	20.41	21.1	0	
15	QPSK	36	39	20.48	20.45	20.33			
15	QPSK	75	0	20.33	20.58	20.45			
15	16QAM	1	0	20.48	20.28	20.41			
15	16QAM	1	37	20.31	20.36	20.18	21.1	0	
15	16QAM	1	74	20.28	20.59	20.38			
15	16QAM	36	0	20.20	20.30	20.18			
15	16QAM	36	20	20.14	20.27	20.28			
15	16QAM	36	39	20.30	20.22	20.24	21.1	0	
15	16QAM	75	0	20.25	20.37	20.27			
15	64QAM	1	0	20.46	20.46	20.38			
15	64QAM	1	37	20.37	20.47	20.44			
15	64QAM	1	74	20.43	20.45	20.47	21.1	0	
15	64QAM	36	0	20.35	20.48	20.28			
15	64QAM	36	20	20.24	20.48	20.36			
15	64QAM	36	39	20.45	20.40	20.32			
15	64QAM	75	0	20.27	20.40	20.29	20.5	0.6	
15	256QAM	1	0	18.30	18.37	18.39			
15	256QAM	1	37	18.47	18.54	18.42			
15	256QAM	1	74	18.37	18.50	18.39			
15	256QAM	36	0	18.50	18.53	18.48	19	2.1	
15	256QAM	36	20	18.53	18.56	18.55			
15	256QAM	36	39	18.47	18.57	18.46			
15	256QAM	75	0	18.46	18.66	18.52			
Channel				43540	43990	44440			
Frequency (MHz)				3605	3650	3695			
10	QPSK	1	0	20.47	20.47	20.45	21.1	0	
10	QPSK	1	25	20.28	20.36	20.45			
10	QPSK	1	49	20.30	20.43	20.48			
10	QPSK	25	0	20.39	20.51	20.50			
10	QPSK	25	12	20.44	20.51	20.32	21.1	0	
10	QPSK	25	25	20.37	20.43	20.44			
10	QPSK	50	0	20.40	20.43	20.36			
10	16QAM	1	0	20.30	20.31	20.34			
10	16QAM	1	25	20.43	20.53	20.29	21.1	0	
10	16QAM	1	49	20.34	20.45	20.42			
10	16QAM	25	0	20.07	20.32	20.12			
10	16QAM	25	12	20.18	20.38	20.36			
10	16QAM	25	25	20.31	20.31	20.15	21.1	0	
10	16QAM	50	0	20.17	20.25	20.18			
10	64QAM	1	0	20.41	20.59	20.41			
10	64QAM	1	25	20.53	20.58	20.38			
10	64QAM	1	49	20.39	20.49	20.46	21.1	0	
10	64QAM	25	0	20.37	20.42	20.29			
10	64QAM	25	12	20.18	20.45	20.32			
10	64QAM	25	25	20.39	20.41	20.32			
10	64QAM	50	0	20.49	20.48	20.47	20.5	0.6	
10	256QAM	1	0	18.40	18.36	18.39			
10	256QAM	1	25	18.45	18.42	18.46			
10	256QAM	1	49	18.37	18.36	18.38			
10	256QAM	25	0	18.34	18.63	18.41	19	2.1	
10	256QAM	25	12	18.44	18.59	18.59			
10	256QAM	25	25	18.53	18.54	18.51			
10	256QAM	50	0	18.54	18.44	18.43			
Channel				43515	43990	44465			
Frequency (MHz)				3602.5	3650	3697.5			
5	QPSK	1	0	20.54	20.50	20.47	21.1	0	
5	QPSK	1	12	20.41	20.51	20.29			
5	QPSK	1	24	20.31	20.43	20.42			
5	QPSK	12	0	20.36	20.63	20.44			
5	QPSK	12	7	20.44	20.61	20.31	21.1	0	
5	QPSK	12	13	20.34	20.52	20.34			
5	QPSK	25	0	20.44	20.59	20.46			
5	16QAM	1	0	20.32	20.25	20.26			
5	16QAM	1	12	20.34	20.46	20.36	21.1	0	
5	16QAM	1	24	20.32	20.51	20.33			
5	16QAM	12	0	20.13	20.22	20.12			
5	16QAM	12	7	20.16	20.40	20.28			
5	16QAM	12	13	20.27	20.39	20.12	21.1	0	
5	16QAM	25	0	20.24	20.33	20.25			
5	64QAM	1	0	20.36	20.59	20.45			
5	64QAM	1	12	20.47	20.52	20.39			
5	64QAM	1	24	20.47	20.56	20.45	21.1	0	
5	64QAM	12	0	20.30	20.43	20.22			
5	64QAM	12	7	20.26	20.35	20.30			
5	64QAM	12	13	20.29	20.49	20.39			
5	64QAM	25	0	20.39	20.38	20.31	20.5	0.6	
5	256QAM	1	0	18.38	18.38	18.33			
5	256QAM	1	12	18.40	18.58	18.58			
5	256QAM	1	24	18.38	18.32	18.36			
5	256QAM	12	0	18.51	18.54	18.44	19	2.1	
5	256QAM	12	7	18.56	18.63	18.56			
5	256QAM	12	13	18.54	18.54	18.46			
5	256QAM	25	0	18.40	18.66	18.53			

Band 48 Ant2 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				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.63	20.67	20.50	21.1	0	
20	QPSK	1	49	20.60	20.65	20.49			
20	QPSK	1	99	20.59	20.63	20.73			
20	QPSK	50	0	20.58	20.77	20.72			
20	QPSK	50	24	20.58	20.62	20.66	21.1	0	
20	QPSK	50	50	20.66	20.65	20.55			
20	QPSK	100	0	20.69	20.66	20.72			
20	16QAM	1	0	20.55	20.61	20.47			
20	16QAM	1	49	20.46	20.63	20.52	21.1	0	
20	16QAM	1	99	20.36	20.47	20.52			
20	16QAM	50	0	20.22	20.43	20.24			
20	16QAM	50	24	20.32	20.42	20.23			
20	16QAM	50	50	20.31	20.31	20.33	21.1	0	
20	16QAM	100	0	19.78	19.76	19.69			
20	64QAM	1	0	20.66	20.60	20.55			
20	64QAM	1	49	20.62	20.53	20.39			
20	64QAM	1	99	20.58	20.62	20.59	21.1	0	
20	64QAM	50	0	20.40	20.47	20.37			
20	64QAM	50	24	20.33	20.43	20.31			
20	64QAM	50	50	20.25	20.29	20.29			
20	64QAM	100	0	18.76	18.82	18.81	20.5	0.6	
20	256QAM	1	0	18.85	18.90	18.76			
20	256QAM	1	49	18.69	18.83	18.69			
20	256QAM	1	99	18.62	18.74	18.64			
20	256QAM	50	0	18.71	18.84	18.64	19	2.1	
20	256QAM	50	24	18.57	18.74	18.53			
20	256QAM	50	50	18.64	18.70	18.62			
20	256QAM	100	0	18.77	18.74	18.65			
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608				



Reduced Power for DSI3 Standalone

GSM850 An10 DSI3 Standalone									
GSM850 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)	524.2	539.4	554.6	250.2	265.4	280.6	250.2	265.4	280.6
GSM 1 Tx slot	32.66	32.75	32.55	33.50	23.66	23.75	23.55	24.50	
GPRS 1 Tx slots	32.56	32.74	32.43	33.50	23.56	23.74	23.43	24.50	
GPRS 2 Tx slots	29.78	29.98	29.86	31.00	23.78	23.98	23.66	25.00	
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74	
GPRS 4 Tx slots	26.63	26.78	26.37	27.00	23.63	23.76	23.37	24.00	
EDGE 1 Tx slot	25.74	25.82	25.62	26.50	16.74	16.82	16.62	17.50	
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	18.06	18.16	17.93	19.00	
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	18.51	18.56	18.33	19.24	
EDGE 4 Tx slots	20.76	20.80	20.65	22.00	17.76	17.80	17.65	18.00	

GSM1900 An10 DSI3 Standalone									
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	1860	1909.8	30.00	20.70	20.76	20.58	21.00	
GSM 1 Tx slot	29.70	29.76	29.58	30.00	20.70	20.76	20.58	21.00	
GPRS 1 Tx slot	29.63	29.68	29.50	30.00	20.63	20.68	20.50	21.00	
GPRS 2 Tx slots	26.17	26.28	26.07	27.00	20.17	20.28	20.07	21.00	
GPRS 3 Tx slots	24.45	24.55	24.33	25.00	20.19	20.29	20.07	20.74	
GPRS 4 Tx slots	22.08	22.23	22.08	24.00	19.08	19.23	19.08	21.00	
EDGE 1 Tx slot	25.32	25.36	25.18	25.50	16.32	16.36	16.18	16.50	
EDGE 2 Tx slots	23.54	23.65	23.40	24.00	17.54	17.65	17.40	18.00	
EDGE 3 Tx slots	22.35	22.47	22.29	23.00	16.69	16.81	16.63	18.74	
EDGE 4 Tx slots	20.10	20.23	19.99	20.50	17.10	17.23	16.99	17.50	

Band	WCDMA II An10 DSI3 Standalone			Tune-up Limit (dBm)	WCDMA IV An10 DSI3 Standalone			Tune-up Limit (dBm)	WCDMA V An10 DSI3 Standalone			Tune-up Limit (dBm)	
	9002	9490	9938		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9900	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1927.4	1930	1937.6	1722.4	1722.3	1722.6	326.4	330.4	340.6				
3GPP Rel 99	AMR 12.2Kbps	19.71	19.88	19.55	20.70	18.14	18.29	18.24	19.50	23.07	23.16	23.02	24.00
3GPP Rel 99	RMC 12.2Kbps	19.85	19.92	19.67	20.70	18.23	18.44	18.35	19.50	23.26	23.32	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1	19.01	18.94	18.90	19.70	17.53	17.47	17.48	18.50	22.24	22.30	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2	18.80	18.98	19.01	18.70	17.20	17.37	17.49	18.50	22.11	22.22	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3	18.51	18.52	18.16	18.25	17.00	17.01	16.94	18.00	21.74	21.83	21.94	22.50
3GPP Rel 6	HSDPA Subtest-4	18.50	18.48	18.51	18.20	16.98	17.01	16.95	18.00	21.72	21.78	21.75	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	18.98	19.02	18.98	19.70	17.49	17.58	17.47	18.50	22.23	22.42	22.20	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	19.19	19.08	18.99	19.70	17.58	17.55	17.51	18.50	22.45	22.34	22.32	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	18.34	18.57	18.45	18.20	17.00	17.14	17.08	18.00	21.77	21.91	21.83	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	18.64	18.51	18.22	18.25	17.05	17.11	16.74	18.00	21.86	21.97	21.83	22.50
3GPP Rel 6	HSUPA Subtest-1	19.11	19.03	18.93	19.70	17.63	17.63	17.42	18.50	22.37	22.33	22.16	23.00
3GPP Rel 6	HSUPA Subtest-2	17.05	17.11	16.83	17.70	15.61	15.57	15.34	16.50	20.33	20.43	20.13	21.00
3GPP Rel 6	HSUPA Subtest-3	17.86	18.17	18.00	18.70	16.24	16.55	16.46	17.50	21.09	21.30	21.30	22.00
3GPP Rel 6	HSUPA Subtest-4	16.76	16.95	16.79	17.70	15.15	15.48	15.26	16.50	20.02	20.16	20.04	21.00
3GPP Rel 6	HSUPA Subtest-5	16.66	16.94	16.61	19.70	17.18	17.57	17.34	18.50	21.91	22.18	22.13	23.00



Band 2 Ant0 DS13 Standalone															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	High Ch / Freq	Turn-up time (min)	MFR (dB)							
Channel									1885	1890	1900				
20	QPSK	1	0	19.69	19.78	19.78			21.2	0					
20	QPSK	1	49	19.69	19.88	19.88									
20	QPSK	1	99	19.72	19.82	19.84									
20	QPSK	1	149	19.72	19.82	19.84									
20	QPSK	50	24	19.83	19.83	19.73									
20	QPSK	50	50	19.76	19.77	19.69									
20	QPSK	50	76	19.87	19.87	19.88									
20	16QAM	1	0	19.92	19.87	19.77			21.2	0					
20	16QAM	1	49	19.73	19.75	19.87									
20	16QAM	50	24	19.87	19.87	19.76									
20	16QAM	50	50	19.73	19.74	19.74			21.2	0					
20	16QAM	50	76	19.77	19.78	19.84									
20	16QAM	100	0	19.86	19.87	19.93									
20	16QAM	100	25	19.92	19.92	19.82									
20	64QAM	1	49	19.86	19.90	19.73			21.2	0					
20	64QAM	1	99	19.85	19.90	19.77									
20	64QAM	50	24	19.90	19.90	19.77									
20	64QAM	50	50	19.89	19.90	19.85			21.2	0					
20	64QAM	50	76	19.86	19.87	19.73									
20	256QAM	1	0	19.84	19.81	19.48									
20	256QAM	1	49	19.89	19.83	19.46			20	1.2					
20	256QAM	50	24	19.87	19.80	19.43									
20	256QAM	50	50	19.87	19.80	19.43									
20	256QAM	50	76	19.84	19.79	19.36			20	1.2					
20	256QAM	100	0	19.83	19.83	19.49									
20	256QAM	100	25	19.82	19.82	19.48									
15	QPSK	1	0	19.70	19.87	19.75			Turn-up	MFR					
15	QPSK	1	49	19.70	19.87	19.75			time	(dB)					
15	QPSK	1	99	19.82	19.79	19.71			21.2	0					
15	QPSK	1	149	19.82	19.79	19.71									
15	QPSK	36	0	19.88	19.83	19.82									
15	QPSK	36	36	19.79	19.83	19.82									
15	QPSK	36	72	19.83	19.82	19.82									
15	QPSK	75	0	19.81	19.83	19.73									
15	QPSK	75	36	19.79	19.83	19.83			21.2	0					
15	16QAM	1	37	19.81	19.70	19.82									
15	16QAM	1	74	19.80	19.80	19.80									
15	16QAM	36	0	19.76	19.79	19.80									
15	16QAM	36	36	19.85	19.71	19.71			21.2	0					
15	16QAM	75	0	19.79	19.80	19.80									
15	64QAM	1	0	19.84	19.82	19.86									
15	64QAM	1	37	19.80	19.79	19.83			21.2	0					
15	64QAM	1	74	19.80	19.79	19.83									
15	64QAM	36	0	19.88	19.77	19.71									
15	64QAM	36	36	19.83	19.82	19.82									
15	64QAM	36	72	19.81	19.71	19.86			21.2	0					
15	64QAM	75	0	19.74	19.81	19.84									
15	256QAM	1	0	19.41	19.41	19.84									
15	256QAM	1	37	19.42	19.41	19.41			20	1.2					
15	256QAM	36	0	19.86	19.40	19.40									
15	256QAM	36	36	19.83	19.40	19.40									
15	256QAM	75	0	19.41	19.42	19.40			20	1.2					
15	256QAM	75	36	19.41	19.42	19.40									
15	256QAM	150	0	19.80	19.80	19.80									
15	256QAM	150	36	19.80	19.80	19.80			Turn-up	MFR					
15	256QAM	150	72	19.80	19.80	19.80			time	(dB)					

Band 4 Ant0 DS13 Standalone															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	High Ch / Freq	Turn-up time (min)	MFR (dB)							
Channel									1720	1732	1745				
20	QPSK	1	0	18.91	18.97	18.78									
20	QPSK	1	49	18.91	18.97	18.78									
20	QPSK	1	99	18.85	18.96	18.82									
20	QPSK	1	149	18.85	18.96	18.82									
20	QPSK	50	24	18.98	19.00	18.71									
20	QPSK	50	50	18.75	18.86	18.56									
20	QPSK	50	76	18.92	18.93	18.81									
20	16QAM	1	0	18.74	18.86	18.80									
20	16QAM	1	49	18.82	18.81	18.86									
20	16QAM	50	24	18.91	18.91	18.58									
20	16QAM	50	50	18.77	18.88	18.85									
20	16QAM	50	76	18.99	18.99	18.89									
20	16QAM	100	0	18.79	18.85	18.60									
20	16QAM	100	25	18.92	18.92	18.82									
20	64QAM	1	49	18.86	18.94	18.58									
20	64QAM	1	99	18.79	18.81	18.54									
20	64QAM	50	24	18.81	18.90	18.56									
20	64QAM	50	50	18.83	18.90	18.77									
20	64QAM	50	76	18.85	18.89	18.74									
20	64QAM	100	0	18.90	18.92	18.68									
20	256QAM	1	0	18.84	18.86	18.83									
20	256QAM	1	49	18.74	18.77	18.73									
20	256QAM	50	24	18.82	18.82	18.82									
20	256QAM	50	50	18.74	18.85	18.77									
20	256QAM	50	76	18.87	18.87	18.87									
20	256QAM	100	0	18.80	18.80	18.58									
20	256QAM	100	25	18.80	18.80	18.58									
20	256QAM	150	0	18.75	18.77	18.72									
20	256QAM	150	25	18.75	18.77	18.72									
15	QPSK	1	0	17.75	17.92	17.85			Turn-up	MFR					
15	QPSK	1	49	17.75	17.92	17.85			time	(dB)					
15	QPSK	1	99	18.79	18.86	18.53									
15	QPSK	1	149	18.79	18.86	18.53									
15	QPSK	36	0	18.75	18.82	18.51									
15	QPSK	36	36	18.75	18.82	18.51									
15	QPSK	75	0	18.87	18.71	18.58									
15	QPSK	75	36	18.87	18.71	18.58			21.2	0					
15	16QAM	1	37	18.86	18.78	18.54									
15	16QAM	1	74	18.79	18.74	18.54									
15	16QAM	36	0	18.82	18.73	18.52									
15	16QAM	36	36	18.87	18.78	18.45			21.2	0					
15	16QAM	75	0	18.80	18.84	18.55									
15	16QAM	75	36	18.80	18.84	18.55									
15	64QAM	1	0	18.55	18.87	18.58									
15	64QAM	1	37	18.55	18.87	18.58			21.2	0					
15	64QAM	1	74	18.52	18.83	18.58									
15	64QAM	36	0	18.58	18.78	18.46									
15	64QAM	36	36	18.53	18.83	18.63									
15	64QAM	36	72	18.61	18.76	18.56			21.2	0					
15	64QAM	75	0	18.73	18.84	18.45									
15	64QAM	75	36	18.79	18.74	18.45									
15	256QAM	1	0	18.53	18.53	18.60									
15	256QAM	1	37	18.70	18.89	18.45			20	1.2					
15	256QAM	36	0	18.63	18.62	18.60									
15	256QAM	36	36	18.63	18.62	18.60									
15	256QAM	75	0	18.63	18.62	18.60			Turn-up	MFR					
15	256QAM	75	36	18.63	18.62	18.60			time	(dB)					

Band 5 Ant0 DS13 Standalone													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	High Ch / Freq	Turn-up time (min)	MFR (dB)					
Channel									876	886.5	884		
1													



Band 12 Ant0 DS13 Standalone										
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)										
10	QPSK	1	0	22.87	22.82	22.79	24	0		
10	QPSK	1	40	22.73	22.82	22.76				
10	QPSK	5	0	22.59	22.59	22.58				
10	QPSK	25	12	22.68	22.79	22.74				
10	QPSK	25	28	22.62	22.73	22.68				
10	16QAM	1	0	22.75	22.85	22.81	24	0		
10	16QAM	1	20	22.69	22.66	22.69				
10	16QAM	25	0	22.59	22.59	22.58				
10	16QAM	25	0	22.35	22.48	22.45				
10	16QAM	25	12	22.29	22.34	22.32				
10	16QAM	25	28	22.33	22.41	22.39				
10	16QAM	50	0	22.38	22.44	22.39				
10	64QAM	1	0	22.42	22.47	22.43	23.5	0.5		
10	64QAM	1	20	22.35	22.35	22.35				
10	64QAM	1	40	22.33	22.38	22.36				
10	64QAM	25	0	21.33	21.46	21.38				
10	64QAM	25	12	21.23	21.28	21.24				
10	64QAM	25	28	21.26	21.21	21.22				
10	64QAM	50	0	21.26	21.41	21.38				
10	256QAM	1	0	19.53	19.61	19.52	20.5	1.5		
10	256QAM	1	20	19.48	19.48	19.48				
10	256QAM	1	40	19.34	19.44	19.35				
10	256QAM	25	0	19.37	19.25	19.19				
10	256QAM	25	12	19.25	19.25	19.24				
10	256QAM	25	28	19.38	19.37	19.38				
10	256QAM	50	0	19.37	19.37	19.38				
Channel										
Frequency (MHz)										
5	QPSK	1	0	701.5	707.5	713.5	24	0		
5	QPSK	1	24	702.8	702.8	702.8				
5	QPSK	1	24	702.8	702.8	702.8				
5	QPSK	12	0	702.8	702.8	702.8				
5	QPSK	12	18	702.8	702.8	702.8				
5	QPSK	25	0	702.8	702.8	702.8				
5	16QAM	1	12	702.8	702.8	702.8	24	0		
5	16QAM	1	24	702.8	702.8	702.8				
5	16QAM	12	0	702.8	702.8	702.8				
5	16QAM	12	18	702.8	702.8	702.8				
5	16QAM	25	0	702.8	702.8	702.8	23.5	0.5		
5	16QAM	25	12	702.8	702.8	702.8				
5	16QAM	25	24	702.8	702.8	702.8				
5	64QAM	1	0	702.8	702.8	702.8	23.5	0.5		
5	64QAM	1	24	702.8	702.8	702.8				
5	64QAM	12	0	702.8	702.8	702.8				
5	64QAM	12	18	702.8	702.8	702.8				
5	64QAM	25	0	702.8	702.8	702.8	22.5	1.5		
5	64QAM	25	12	702.8	702.8	702.8				
5	64QAM	25	24	702.8	702.8	702.8				
5	256QAM	1	12	702.8	702.8	702.8	20.5	3.5		
5	256QAM	1	24	702.8	702.8	702.8				
5	256QAM	12	0	702.8	702.8	702.8				
5	256QAM	12	18	702.8	702.8	702.8				
5	256QAM	25	0	702.8	702.8	702.8	20.5	3.5		
5	256QAM	25	12	702.8	702.8	702.8				
5	256QAM	25	24	702.8	702.8	702.8				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.83	22.80	22.72	24	0		
3	QPSK	1	8	22.75	22.82	22.78				
3	QPSK	8	0	22.72	22.80	22.80				
3	QPSK	8	4	22.85	22.74	22.84				
3	QPSK	16	0	22.80	22.77	22.73				
3	16QAM	1	0	22.83	22.77	22.76	24	0		
3	16QAM	1	8	22.78	22.87	22.86				
3	16QAM	1	14	22.49	22.46	22.54				
3	16QAM	8	0	22.39	22.37	22.36				
3	16QAM	8	4	22.38	22.37	22.36				
3	16QAM	8	7	22.24	22.27	22.07				
3	16QAM	16	0	22.39	22.39	22.39	23.5	0.5		
3	64QAM	1	0	22.32	22.45	22.30				
3	64QAM	1	8	22.29	22.26	22.24				
3	64QAM	1	14	21.28	21.29	21.18				
3	64QAM	8	0	21.25	21.41	21.30				
3	64QAM	8	4	21.16	21.14	21.09				
3	64QAM	16	0	21.27	21.38	21.33				
3	256QAM	1	0	19.48	19.45	19.42	20.5	3.5		
3	256QAM	1	8	19.25	19.40	19.25				
3	256QAM	8	4	19.22	19.24	19.14				
3	256QAM	8	7	19.19	19.18	19.14				
3	256QAM	16	0	19.24	19.25	19.24				
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.81	22.80	22.87	24	0		
14	QPSK	1	5	22.69	22.75	22.69				
14	QPSK	1	10	22.72	22.80	22.80				
14	QPSK	3	0	22.80	22.70	22.67				
14	QPSK	3	3	22.81	22.65	22.54				
14	16QAM	1	0	22.83	22.78	22.71	24	0		
14	16QAM	1	5	22.69	22.82	22.66				
14	16QAM	3	0	22.63	22.71	22.69				
14	16QAM	3	1	22.21	22.43	22.28				
14	16QAM	3	1	22.20	22.28	22.21				
14	16QAM	3	11	22.26	22.31	22.09				
14	16QAM	6	0	22.32	22.41	22.31	23.5	0.5		
14	64QAM	1	0	22.36	22.41	22.37				
14	64QAM	1	5	22.29	22.27	22.30				
14	64QAM	1	6	22.23	22.34	22.18				
14	64QAM	3	0	21.28	21.34	21.21	23.5	0.5		
14	64QAM	3	1	22.10	22.22	22.16				
14	64QAM	3	0	22.14	22.08	22.13				
14	256QAM	1	0	19.41	19.47	19.39	20.5	3.5		
14	256QAM	1	5	19.36	19.41	19.24				
14	256QAM	3	0	19.22	19.39	19.21				
14	256QAM	3	1	19.21	19.24	19.20				
14	256QAM	3	3	19.26	19.11	19.20				
14	256QAM	6	0	19.25	19.28	19.32	20.5	3.5		

Band 13 Ant0 DS13 Standalone										
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)										
10	QPSK	1	0	22.36	22.36	22.36	24	0		
10	QPSK	1	48	22.33	22.33	22.33				
10	QPSK	36	0	22.33	22.33	22.33				
10	QPSK	25	12	22.44	22.44	22.44				
10	QPSK	25	28	22.31	22.31	22.31				
10	16QAM	1	0	22.46	22.46	22.46	24	0		
10	16QAM	1	20	22.37	22.37	22.37				
10	16QAM	1	48	22.33	22.33	22.33				
10	16QAM	25	0	22.07	22.07	22.07				
10	16QAM	25	12	21.96	21.96	21.96				
10	16QAM	25	28	21.90	21.90	21.90				
10	16QAM	50	0	22.01	22.01	22.01				
10	64QAM	1	0	21.97	21.97	21.97	23.5	0.5		
10	64QAM	1	20	22.01	21.95	21.95				
10	64QAM	1	48	21.85	21.85	21.85				
10	64QAM	25	12	20.56	20.56	20.56				
10	64QAM	25	28	20.65	20.65	20.65				
10	64QAM	50	0	21.03	21.03	21.03				
10	256QAM	1	0	19.10	19.24	19.27	20.5	3.5		
10	256QAM	1	20	18.96	19.26	19.16				
10	256QAM	1	48	18.84	19.32	19.18				
10	256QAM	25	0	19.01	19.01	19.01				
10	256QAM	25	12	18.92	19.41	19.21				
10	256QAM	25	28	18.78	19.34	19.20				
10	256QAM	50	0	19.03	19.03	19.03				
Channel										
Frequency (MHz)										
5	QPSK	1	0	729.0	729.0	729.0	24	0		
5	QPSK	1	24	729.0	729.0	729.0				
5	QPSK	1	24	729.0	729.0	729.0				
5	QPSK	12	0	729.0	729.0	729.0				
5	QPSK	12	18	729.0	729.0	729.0				
5	QPSK	25	0	729.0	729.0	729.0				
5	16QAM	1	12	729.0	729.0	729.0	24	0		
5	16QAM	1	24	729.0	729.0	729.0				
5	16QAM	12	0	729.0	729.0	729.0				
5	16QAM	12	18	729.0	729.0	729.0				
5	16QAM	25	0	729.0	729.0	729.0	23.5	0.5		
5	16QAM	25	12	729.0	729.0	729.0				
5	16QAM	25	24	729.0	729.0	729.0				
5	64QAM	1	0	729.0	729.0	729.0	23.5	0.5		
5	64QAM	1	24	729.0	729.0	729.0				
5	64QAM	12	0	729.0	729.0	729.0				
5	64QAM	12	18	729.0	729.0	729.0				
5	64QAM	25	0	729.0	729.0	729.0	22.5	1.5		
5	64QAM	25	12	729.0	729.0	729.0				
5	64QAM	25	24	729.0	729.0	729.0				
5	256QAM	1	12	729.0	729.0					



Band 26 Ant0 DSI3 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Low Ch. Freq.	High Ch. Freq.	Tune-up (MHz)	MRR (dB)
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.40	22.56	22.40	22.56	23.5	0
15	QPSK	1	37	22.42	22.52	22.42	22.52		
15	QPSK	1	74	22.38	22.50	22.38	22.50		
15	QPSK	36	0	22.40	22.56	22.40	22.56		
15	QPSK	36	20	22.35	22.43	22.34	22.34	23.5	0
15	QPSK	36	38	22.41	22.47	22.39	22.39		
15	QPSK	75	0	22.35	22.56	22.35	22.56		
15	16QAM	1	0	22.41	22.55	22.43	22.43	23.5	0
15	16QAM	1	37	22.42	22.46	22.41	22.41		
15	16QAM	1	74	22.37	22.39	22.38	22.38		
15	16QAM	36	0	21.94	22.03	21.90	21.90	23.5	0
15	16QAM	36	20	21.87	21.87	21.87	21.87		
15	16QAM	36	39	21.79	21.86	21.81	21.81		
15	16QAM	75	0	21.84	21.94	21.88	21.88		
15	16QAM	1	0	21.90	22.04	21.90	22.04	23.5	0
15	16QAM	1	37	21.93	21.88	21.83	21.83		
15	16QAM	1	74	21.79	21.86	21.79	21.79		
15	16QAM	36	0	20.83	20.97	20.86	20.86	22.5	1
15	16QAM	36	20	20.80	20.80	20.81	20.81		
15	16QAM	36	39	20.75	20.81	20.78	20.78		
15	16QAM	75	0	20.69	20.99	20.69	20.99		
15	256QAM	1	0	19.00	19.07	19.00	19.00	20.5	3
15	256QAM	1	37	18.94	18.90	18.93	18.93		
15	256QAM	1	74	18.82	18.86	18.85	18.85		
15	256QAM	36	0	18.89	18.98	18.86	18.86	20.5	3
15	256QAM	36	20	18.83	18.74	18.88	18.88		
15	256QAM	36	39	18.83	18.74	18.88	18.88		
15	256QAM	75	0	18.80	18.87	18.79	18.79		
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.53	22.57	22.50	22.50	23.5	0
10	QPSK	1	26	22.49	22.54	22.49	22.54		
10	QPSK	1	49	22.24	22.38	22.32	22.32		
10	QPSK	25	0	22.38	22.43	22.39	22.39	23.5	0
10	QPSK	25	12	22.31	22.31	22.31	22.31		
10	QPSK	25	25	22.34	22.40	22.38	22.38		
10	QPSK	50	0	22.17	22.26	22.23	22.23	23.5	0
10	16QAM	1	0	22.17	22.44	22.16	22.16		
10	16QAM	1	26	22.31	22.33	22.27	22.27	23.5	0
10	16QAM	1	49	22.27	22.26	22.21	22.21		
10	16QAM	25	0	21.84	21.99	21.84	21.84	23.5	0
10	16QAM	25	12	21.75	21.77	21.82	21.82		
10	16QAM	25	25	21.79	21.86	21.77	21.77		
10	16QAM	50	0	21.79	21.86	21.77	21.77		
10	16QAM	1	0	21.88	21.94	21.84	21.84	23.5	0
10	16QAM	1	26	21.84	21.84	21.88	21.88		
10	16QAM	1	49	21.70	21.74	21.68	21.68		
10	16QAM	25	0	20.82	20.99	20.80	20.80	22.5	1
10	16QAM	25	12	20.75	20.77	20.86	20.86		
10	16QAM	25	25	20.62	20.75	20.72	20.72		
10	16QAM	50	0	20.80	20.94	20.83	20.83	20.5	3
10	256QAM	1	0	18.86	18.99	18.86	18.86		
10	256QAM	1	26	18.88	18.76	18.78	18.78		
10	256QAM	1	49	18.74	18.77	18.76	18.76		
10	256QAM	25	0	18.74	18.84	18.70	18.70	20.5	3
10	256QAM	25	12	18.78	18.75	18.81	18.81		
10	256QAM	25	25	18.82	18.78	18.83	18.83		
10	256QAM	50	0	18.82	18.78	18.83	18.83		
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.48	22.60	22.40	22.40	23.5	0
5	QPSK	1	12	22.38	22.45	22.37	22.37		
5	QPSK	1	24	22.24	22.34	22.29	22.29		
5	QPSK	12	0	22.43	22.45	22.43	22.43	23.5	0
5	QPSK	12	7	22.24	22.38	22.27	22.27		
5	QPSK	12	13	22.31	22.34	22.31	22.31		
5	QPSK	25	0	22.20	22.34	22.19	22.19	23.5	0
5	16QAM	1	0	22.28	22.52	22.30	22.30		
5	16QAM	1	35	22.18	22.32	22.14	22.14		
5	16QAM	1	24	22.28	22.35	22.15	22.15		
5	16QAM	12	0	21.86	21.96	21.78	21.78	23.5	0
5	16QAM	12	7	21.70	21.73	21.82	21.82		
5	16QAM	12	13	21.84	21.77	21.68	21.68		
5	16QAM	25	0	21.71	21.86	21.68	21.68	23.5	0
5	16QAM	25	0	21.81	21.96	21.88	21.88		
5	16QAM	1	12	21.84	21.77	21.71	21.71		
5	16QAM	1	24	21.65	21.72	21.72	21.72		
5	16QAM	12	0	20.83	20.86	20.71	20.71	22.5	1
5	16QAM	12	7	20.70	20.88	20.72	20.72		
5	16QAM	12	13	20.82	20.88	20.78	20.78		
5	16QAM	25	0	20.84	20.86	20.78	20.78		
5	256QAM	1	0	18.86	18.86	18.87	18.87	20.5	3
5	256QAM	1	24	18.74	18.82	18.71	18.71		
5	256QAM	1	49	18.84	18.85	18.81	18.81		
5	256QAM	12	7	18.74	18.73	18.70	18.70	20.5	3
5	256QAM	12	13	18.74	18.68	18.54	18.54		
5	256QAM	25	0	18.62	18.76	18.76	18.76		
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.48	22.52	22.38	22.38	23.5	0
1.4	QPSK	1	3	22.31	22.47	22.39	22.39		
1.4	QPSK	1	5	22.54	22.46	22.43	22.43		
1.4	QPSK	3	0	22.44	22.47	22.43	22.43	23.5	0
1.4	QPSK	3	1	22.30	22.33	22.28	22.28		
1.4	QPSK	3	3	22.28	22.39	22.28	22.28		
1.4	QPSK	6	0	22.18	22.30	22.26	22.26	23.5	0
1.4	16QAM	1	0	22.20	22.65	22.33	22.33		
1.4	16QAM	1	3	22.38	22.38	22.29	22.29	23.5	0
1.4	16QAM	1	5	22.51	22.50	22.79	22.79		
1.4	16QAM	3	0	22.30	22.50	22.27	22.27		
1.4	16QAM	3	1	22.24	22.25	22.28	22.28		
1.4	16QAM	3	3	21.90	22.00	21.87	21.87	23.5	0
1.4	16QAM	6	0	21.80	21.85	21.84	21.84		
1.4	16QAM	1	0	21.82	22.00	21.88	21.88	23.5	0
1.4	16QAM	1	3	21.88	21.74	21.76	21.76		
1.4	16QAM	1	5	21.72	21.76	21.75	21.75	23.5	0
1.4	16QAM	3	0	21.74	21.91	21.74	21.74		
1.4	16QAM	3	1	21.76	21.87	21.79	21.79		
1.4	16QAM	3	3	21.71	21.89	21.78	21.78		
1.4	16QAM	6	0	20.86	20.91	20.85	20.85	22.5	1
1.4	16QAM	6	0	18.80	18.90	18.80	18.80		
1.4	256QAM	1	3	18.90	18.78	18.86	18.86	20.5	3
1.4	256QAM	1	5	18.74	18.76	18.69	18.69		
1.4	256QAM	3	0	18.80	18.82	18.74	18.74		
1.4	256QAM	3	1	18.78	18.72	18.69	18.69		
1.4	256QAM	3	3	18.78	18.64	18.66	18.66		
1.4	256QAM	6	0	18.71	18.78	18.74	18.74	20.5	3

Band 66 Ant0 DSI3 Standalone									
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. Freq.	High Ch. Freq.	Low Ch. Freq.	High Ch. Freq.	Tune-up (MHz)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.90	17.90	17.90	17.90	20	0
20	QPSK	1	49	18.94	18.94	18.94	18.94		
20	QPSK	1	99	18.92	18.98	18.98	18.98		
20	QPSK	50	0	18.94	19.07	18.90	18.90	20	0
20	QPSK	50	50	18.88	18.99	18.71	18.71		
20	16QAM	1	0	18.87	18.98	18.84	18.84	20	0
20	16QAM	1	49	18.95	18.96	18.79	18.79		
20	16QAM	1	99	18.93	18.99	18.77	18.77		
20	16QAM	50	0	18.82	19.02	18.74	18.74	20	0
20	16QAM	50	24	18.84	19.05	18.71	18.71		
20	16QAM	100	0	18.80	18.97	18.79	18.79		
20	16QAM	100	0	18.88	19.00	18.71	18.71	</	



Band 38 Ant0 PC3 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				37850	38000	38150				
Frequency (MHz)				2880	2965	2610				
20	QPSK	1	0	23.06	23.19	23.04	24	0		
20	QPSK	1	49	23.00	23.08	22.93				
20	QPSK	1	99	23.01	23.04	22.91				
20	QPSK	50	0	23.05	23.08	23.00				
20	QPSK	50	24	22.87	22.85	22.87	24	0		
20	QPSK	50	50	23.00	23.08	23.00				
20	QPSK	100	0	22.99	23.05	22.97				
20	16QAM	1	0	22.98	23.05	22.97				
20	16QAM	1	49	22.92	23.07	22.95	24	0		
20	16QAM	1	99	22.86	23.03	23.01				
20	16QAM	50	0	22.93	23.06	22.95				
20	16QAM	50	24	22.98	23.12	23.05	24	0		
20	16QAM	50	50	23.01	23.08	23.03				
20	16QAM	100	0	22.92	23.06	22.97				
20	64QAM	1	0	22.97	23.15	22.99				
20	64QAM	1	49	22.94	23.05	22.99	24	0		
20	64QAM	1	99	23.06	23.13	22.98				
20	64QAM	50	0	22.87	23.00	22.97				
20	64QAM	50	24	23.05	23.11	23.07	24	0		
20	64QAM	50	50	23.08	23.09	22.94				
20	64QAM	100	0	22.97	23.07	23.02				
20	256QAM	1	0	20.93	20.99	20.84				
20	256QAM	1	49	20.84	20.98	20.85	22	2		
20	256QAM	1	99	21.01	21.06	20.91				
20	256QAM	50	0	20.97	21.08	20.94				
20	256QAM	50	24	21.06	21.11	20.97	22	2		
20	256QAM	50	50	20.95	21.05	20.91				
20	256QAM	100	0	20.98	21.07	20.92				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.91	23.08	22.89	24	0		
15	QPSK	1	37	22.85	23.04	22.76				
15	QPSK	1	74	22.90	22.86	22.76				
15	QPSK	36	0	22.86	23.02	22.86				
15	QPSK	36	20	22.78	22.90	22.72	24	0		
15	QPSK	36	39	22.85	23.01	22.83				
15	QPSK	75	0	22.93	23.01	22.88				
15	16QAM	1	0	22.81	22.95	22.87				
15	16QAM	1	37	22.88	22.98	22.90	24	0		
15	16QAM	1	74	22.72	22.87	22.98				
15	16QAM	36	0	22.86	23.02	22.78				
15	16QAM	36	20	22.94	22.95	23.02	24	0		
15	16QAM	36	39	22.92	23.04	22.97				
15	16QAM	75	0	22.79	23.01	22.89				
15	64QAM	1	0	22.81	23.01	22.85				
15	64QAM	1	37	22.83	23.01	22.89	24	0		
15	64QAM	1	74	22.93	23.01	22.94				
15	64QAM	36	0	22.89	22.85	22.83				
15	64QAM	36	20	22.99	23.02	23.05	24	0		
15	64QAM	36	39	22.98	23.04	22.85				
15	64QAM	75	0	22.82	22.99	22.98				
15	256QAM	1	0	20.77	20.94	20.68				
15	256QAM	1	37	20.75	20.82	20.76	22	2		
15	256QAM	1	74	20.86	20.91	20.77				
15	256QAM	36	0	20.91	20.94	20.83				
15	256QAM	36	20	20.99	21.08	20.81	22	2		
15	256QAM	36	39	20.86	20.88	20.77				
15	256QAM	75	0	20.82	21.03	20.86				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.99	23.02	22.89	24	0		
10	QPSK	1	25	22.98	23.03	22.98				
10	QPSK	1	49	22.96	22.93	22.84				
10	QPSK	25	0	22.95	22.97	22.84				
10	QPSK	25	12	22.81	22.77	22.82	24	0		
10	QPSK	25	25	22.92	22.95	22.84				
10	QPSK	50	0	22.87	22.94	22.90				
10	16QAM	1	0	22.91	22.88	22.86				
10	16QAM	1	25	22.76	22.91	22.89	24	0		
10	16QAM	1	49	22.79	22.99	22.95				
10	16QAM	25	0	22.90	22.99	22.78				
10	16QAM	25	12	22.86	23.08	22.98	24	0		
10	16QAM	25	25	22.94	22.91	22.92				
10	16QAM	50	0	22.75	22.89	22.91				
10	64QAM	1	0	22.80	23.04	22.91				
10	64QAM	1	25	22.79	22.91	22.86	24	0		
10	64QAM	1	49	22.83	23.02	22.89				
10	64QAM	25	0	22.72	22.97	22.94				
10	64QAM	25	12	22.88	23.00	22.95	24	0		
10	64QAM	25	25	22.89	23.07	22.77				
10	64QAM	50	0	22.79	22.95	22.94				
10	256QAM	1	0	20.80	20.87	20.71				
10	256QAM	1	25	20.72	20.84	20.72	22	2		
10	256QAM	1	49	20.87	20.87	20.75				
10	256QAM	25	0	20.93	21.04	20.90				
10	256QAM	25	12	20.95	20.88	20.85	22	2		
10	256QAM	25	25	20.82	20.88	20.86				
10	256QAM	50	0	20.82	21.00	20.82				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.95	23.15	22.94	24	0		
5	QPSK	1	12	22.87	22.96	22.80				
5	QPSK	1	24	22.85	22.92	22.83				
5	QPSK	12	0	22.96	23.03	22.84				
5	QPSK	12	7	22.77	22.79	22.78	24	0		
5	QPSK	12	13	22.88	22.89	22.86				
5	QPSK	25	0	22.96	22.88	22.87				
5	16QAM	1	0	22.92	22.89	22.82				
5	16QAM	1	12	22.75	23.05	22.88	24	0		
5	16QAM	1	24	22.76	22.92	22.86				
5	16QAM	12	0	22.80	22.91	22.81				
5	16QAM	12	7	22.86	23.02	23.01	24	0		
5	16QAM	12	13	22.83	22.92	22.89				
5	16QAM	25	0	22.74	23.00	22.84				
5	64QAM	1	0	22.94	23.10	22.84				
5	64QAM	1	12	22.91	22.93	22.90	24	0		
5	64QAM	1	24	22.91	23.06	22.82				
5	64QAM	12	0	22.70	22.98	22.88				
5	64QAM	12	7	22.97	22.96	23.04	24	0		
5	64QAM	12	13	22.94	22.94	22.76				
5	64QAM	25	0	22.81	22.89	22.91				
5	256QAM	1	0	20.77	20.85	20.68				
5	256QAM	1	12	20.74	20.86	20.74	22	2		
5	256QAM	1	24	20.86	21.02	20.85				
5	256QAM	12	0	20.85	21.03	20.88				
5	256QAM	12	7	20.97	21.01	20.94	22	2		
5	256QAM	12	13	20.86	21.01	20.78				
5	256QAM	25	0	20.82	20.91	20.75				

Band 38 PC2 Ant0 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				37850	38000	38150				
Frequency (MHz)				2880	2965	2610				
20	QPSK	1	0	25.45	25.62	25.55	27	0		
20	QPSK	1	49	25.45	25.56	25.46				
20	QPSK	1	99	25.40	25.51	25.38				
20	QPSK	50	0	25.45	25.60	25.49				
20	QPSK	50	24	25.49	25.53	25.43	27	0		
20	QPSK	50	50	25.51	25.55	25.40				
20	QPSK	100	0	25.54	25.59	25.57				
20	16QAM	1	0	25.55						



Band 41 PC3 Ant0 DSI3 Standalone											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39790	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.91	23.04	23.20	22.98	22.79		24	0
20	QPSK	1	49	22.90	22.95	23.08	22.96	22.77			
20	QPSK	1	99	22.92	22.90	23.07	22.96	22.85			
20	QPSK	50	0	23.09	23.01	23.17	23.13	23.00			
20	QPSK	50	24	23.07	23.10	23.13	23.04	22.88		24	0
20	QPSK	50	90	23.07	23.08	23.12	23.08	22.89			
20	QPSK	100	0	23.11	23.02	23.16	23.13	22.98			
20	16QAM	1	0	23.05	22.99	23.12	22.94	22.88			
20	16QAM	1	49	22.90	22.94	23.07	23.04	22.88		24	0
20	16QAM	1	99	23.07	22.96	23.11	22.95	22.81			
20	16QAM	50	0	23.01	23.03	23.14	23.05	22.91			
20	16QAM	50	24	23.11	23.11	23.17	23.10	22.98		24	0
20	16QAM	50	90	23.03	23.05	23.09	23.04	22.78			
20	16QAM	100	0	22.93	23.00	23.11	23.00	22.78			
20	64QAM	1	0	22.97	22.89	23.06	22.98	22.78			
20	64QAM	1	49	23.14	23.01	23.17	23.13	22.84		24	0
20	64QAM	1	99	22.96	23.06	23.12	23.06	22.82			
20	64QAM	50	0	23.10	23.10	23.15	23.11	22.96			
20	64QAM	50	24	22.93	22.96	23.02	22.93	22.75		24	0
20	64QAM	50	90	22.86	22.99	23.10	23.00	22.80			
20	64QAM	100	0	23.15	23.11	23.18	23.16	22.91			
20	256QAM	1	0	21.05	21.05	21.16	20.99	20.91			
20	256QAM	1	49	21.05	21.05	21.12	21.02	20.88		22	2
20	256QAM	1	99	21.02	21.02	21.05	20.90	20.87			
20	256QAM	50	0	20.96	20.97	21.10	20.94	20.86			
20	256QAM	50	24	20.89	20.99	21.03	20.91	20.78		22	2
20	256QAM	50	90	21.10	21.05	21.14	21.11	20.91			
20	256QAM	100	0	21.14	21.12	21.19	21.16	20.99			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.85	22.93	23.08	22.88	22.73		24.00	0
15	QPSK	1	37	22.73	22.83	23.03	22.82	22.65			
15	QPSK	1	74	22.77	22.83	22.98	22.89	22.72			
15	QPSK	36	0	22.85	22.86	23.01	22.92	22.87			
15	QPSK	36	20	22.94	22.98	22.99	22.92	22.77		24	0
15	QPSK	36	39	23.02	22.91	23.03	22.98	22.87			
15	QPSK	75	0	23.01	22.88	23.03	22.95	22.94			
15	16QAM	1	0	22.96	22.95	23.05	22.91	22.77			
15	16QAM	1	37	22.77	22.76	22.94	22.87	22.75		24	0
15	16QAM	1	74	22.90	22.83	22.98	22.88	22.74			
15	16QAM	36	0	22.85	22.86	23.07	22.92	22.89			
15	16QAM	36	20	22.95	23.08	23.11	23.00	22.90		24	0
15	16QAM	36	39	22.94	23.02	22.96	22.95	22.63			
15	16QAM	75	0	22.91	22.97	22.94	22.91	22.72			
15	64QAM	1	0	22.88	22.77	23.00	22.84	22.70			
15	64QAM	1	37	23.03	22.85	23.14	23.10	22.80		24	0
15	64QAM	1	74	22.84	23.03	22.98	22.92	22.76			
15	64QAM	36	0	22.82	23.06	23.07	22.92	22.83			
15	64QAM	36	20	22.84	22.86	22.96	22.86	22.61		24	0
15	64QAM	36	39	22.90	22.93	23.06	22.86	22.72			
15	64QAM	75	0	23.02	22.99	23.01	22.99	22.81			
15	256QAM	1	0	20.88	21.02	21.01	20.88	20.76			
15	256QAM	1	37	20.97	20.96	20.96	20.87	20.75		22	2
15	256QAM	1	74	20.98	20.93	20.87	20.79	20.75			
15	256QAM	36	0	20.87	20.88	21.06	20.92	20.89			
15	256QAM	36	20	20.85	20.88	21.00	20.75	20.74		22	2
15	256QAM	36	39	20.98	20.90	20.97	20.93	20.78			
15	256QAM	75	0	21.03	20.97	21.04	20.98	20.85			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.81	23.02	23.06	22.83	22.68		24.00	0
10	QPSK	1	49	22.78	22.78	22.92	22.85	22.75			
10	QPSK	1	99	22.75	22.75	22.92	22.93	22.68			
10	QPSK	25	0	22.95	22.83	23.01	23.01	22.87			
10	QPSK	25	12	22.94	23.04	22.95	22.93	22.74		24	0
10	QPSK	25	25	23.04	22.98	23.07	23.04	22.81			
10	QPSK	50	0	23.04	22.89	23.05	22.98	22.73			
10	16QAM	1	0	22.99	22.87	22.95	22.83	22.69			
10	16QAM	1	25	22.82	22.79	23.07	22.92	22.78		24	0
10	16QAM	1	49	23.02	22.82	22.98	22.92	22.83			
10	16QAM	25	0	22.90	22.94	22.99	22.91	22.88			
10	16QAM	25	12	23.01	22.96	23.05	23.04	22.85		24	0
10	16QAM	25	25	22.86	22.95	23.00	22.95	22.63			
10	16QAM	50	0	22.90	22.96	23.03	22.92	22.72			
10	64QAM	1	0	22.93	22.76	22.98	22.90	22.72			
10	64QAM	1	25	23.00	22.99	23.13	23.10	22.71		24	0
10	64QAM	1	49	22.85	22.91	23.02	22.97	22.72			
10	64QAM	25	0	22.98	23.04	22.97	22.99	22.92			
10	64QAM	25	12	22.87	22.79	22.98	22.86	22.68		24	0
10	64QAM	25	25	22.88	22.93	22.97	22.92	22.70			
10	64QAM	50	0	23.11	23.06	23.12	23.00	22.87			
10	256QAM	1	0	20.92	20.99	20.98	20.82	20.84			
10	256QAM	1	25	21.00	20.98	20.95	20.87	20.71		22	2
10	256QAM	1	49	20.89	20.87	20.93	20.72	20.76			
10	256QAM	25	0	20.80	20.84	20.97	20.88	20.63			
10	256QAM	25	12	20.73	20.85	20.89	20.89	20.63		22	2
10	256QAM	25	25	20.98	21.03	20.98	20.98	20.76			
10	256QAM	50	0	21.02	21.02	21.03	21.07	20.85			
Channel				39675	40148	40620	41093	41555			
Frequency (MHz)				2498.5	2545.8	2593	2640.80	2687.5			
5	QPSK	1	0	22.81	22.92	23.16	22.88	22.71		24.00	0
5	QPSK	1	12	22.85	22.82	22.94	22.90	22.68			
5	QPSK	1	24	22.83	22.76	22.98	22.86	22.76			
5	QPSK	12	0	22.99	22.88	23.06	23.02	22.93			
5	QPSK	12	7	22.95	22.93	23.10	22.91	22.71		24	0
5	QPSK	12	13	23.00	23.05	23.08	22.96	22.83			
5	QPSK	25	0	23.00	22.96	23.06	23.11	22.94			
5	16QAM	1	0	22.97	22.84	23.01	22.85	22.72			
5	16QAM	1	12	22.80	22.77	23.00	22.96	22.78		24	0
5	16QAM	1	24	22.90	22.94	22.96	22.89	22.65			
5	16QAM	12	0	22.89	22.89	23.05	22.95	22.76			
5	16QAM	12	7	22.99	22.93	23.02	23.00	22.90		24	0
5	16QAM	12	13	22.87	22.88	22.96	22.87	22.61			
5	16QAM	25	0	22.79	22.93	23.00	22.86	22.81			
5	64QAM	1	0	22.86	22.77	23.01	22.86	22.73			
5	64QAM	1	12	22.99	22.99	23.03	23.10	22.74		24	0
5	64QAM	1	24	22.93	22.98	22.99	22.92	22.70			
5	64QAM	12	0	23.05	22.99	23.08	23.08	22.85			
5	64QAM	12	7	22.82	22.89	22.94</					



GSM850 Ant 1 DSSJ Standalone

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)	854.2	856.4	848.8		854.2	856.4	848.8	
GSM 1 Tx slot	32.35	32.42	32.18	33.50	23.35	23.42	23.18	24.50
GPRS 1 Tx slots	32.29	32.31	32.06	33.50	23.29	23.31	23.06	24.50
GPRS 2 Tx slots	29.91	29.93	29.66	31.00	23.91	23.93	23.69	26.00
GPRS 3 Tx slots	27.67	27.64	27.52	29.00	23.41	23.38	23.26	24.74
GPRS 4 Tx slots	28.29	28.21	28.01	27.00	23.29	23.21	23.01	24.00
EDGE 1 Tx slot	25.16	25.24	25.11	26.50	16.16	16.24	16.11	17.50
EDGE 2 Tx slots	23.48	23.63	23.42	25.00	17.48	17.63	17.42	19.00
EDGE 3 Tx slots	22.28	22.42	22.25	23.50	16.00	16.16	15.99	19.24
EDGE 4 Tx slots	20.22	20.35	20.28	22.00	17.22	17.35	17.28	19.00

GSM1900 Ant 1 DSSJ Standalone

TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.98	27.09	27.03	28.40	17.98	18.09	18.03	19.40
GPRS 1 Tx slot	26.90	27.10	26.95	28.40	17.90	18.10	17.95	19.40
GPRS 2 Tx slots	23.61	23.71	23.58	25.40	17.61	17.71	17.58	19.40
GPRS 3 Tx slots	21.74	22.01	21.92	23.60	17.48	17.75	17.66	19.34
GPRS 4 Tx slots	20.55	20.79	20.70	22.40	17.55	17.79	17.70	19.40
EDGE 1 Tx slot	24.27	24.48	24.31	25.00	15.27	15.48	15.31	16.00
EDGE 2 Tx slots	22.66	22.88	22.76	24.00	16.66	16.88	16.76	18.00
EDGE 3 Tx slots	21.49	21.71	21.58	23.00	17.23	17.45	17.32	18.74
EDGE 4 Tx slots	19.26	19.46	19.31	20.50	16.26	16.46	16.31	17.50

WCDMA II Ant 1 DSSJ Standalone

WCDMA IV Ant 1 DSSJ Standalone

WCDMA V Ant 1 DSSJ Standalone

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9490	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9692	9590	9683		1597	1633	1798		4357	4407	4458		
Frequency (MHz)	1852.4	1960	1907.6		1732.4	1732.6	1922.6		4361.4	4361.4	4561.6		
3GPP Rel 99	AMR 12.2kbps	17.06	17.03	16.81	18.00	16.64	17.12	16.84	18.70	22.96	23.02	22.84	24.00
3GPP Rel 99	RMC 12.2kbps	17.19	17.20	16.89	18.00	17.02	17.19	17.01	18.70	23.08	23.15	22.92	24.00
3GPP Rel 6	HSDPA Subtest-1	16.29	16.40	16.22	17.00	16.23	16.25	16.22	17.70	22.10	22.05	21.90	23.00
3GPP Rel 6	HSDPA Subtest-2	16.03	16.31	16.23	17.00	16.07	16.19	16.22	17.70	22.01	22.06	21.88	23.00
3GPP Rel 6	HSDPA Subtest-3	15.90	15.85	15.62	16.50	15.74	15.87	15.60	17.20	21.51	21.57	21.43	22.50
3GPP Rel 6	HSDPA Subtest-4	15.76	15.78	15.77	16.50	15.67	15.69	15.69	17.20	21.50	21.62	21.39	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	16.36	16.36	16.20	17.00	16.12	16.25	16.20	17.70	22.01	22.16	22.00	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	16.43	16.34	16.44	17.00	16.40	16.34	16.21	17.70	21.98	22.07	21.92	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	15.82	15.95	15.74	16.50	15.67	15.88	15.71	17.20	21.50	21.64	21.45	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	15.93	15.67	15.58	16.50	15.78	15.79	15.57	17.20	21.51	21.59	21.38	22.50
3GPP Rel 6	HSUPA Subtest-1	16.39	16.46	16.07	17.00	16.39	16.35	16.09	17.70	22.03	22.12	22.03	23.00
3GPP Rel 6	HSUPA Subtest-2	14.34	14.45	14.33	15.00	14.75	14.72	14.62	15.70	19.94	20.14	19.94	21.00
3GPP Rel 6	HSUPA Subtest-3	15.11	15.39	15.41	16.00	15.02	15.31	15.20	16.70	21.03	21.08	21.01	22.00
3GPP Rel 6	HSUPA Subtest-4	14.06	14.18	14.06	15.00	14.41	14.67	14.59	15.70	19.99	20.10	19.99	21.00
3GPP Rel 6	HSUPA Subtest-5	16.00	16.19	16.12	17.00	15.95	16.06	16.04	17.70	22.06	22.08	21.92	23.00



Band 2 Ant 1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.				
20	QPSK	1	0	16.45	16.46	16.43		17.7	0	
20	QPSK	1	49	16.33	16.41	16.32				
20	QPSK	1	99	16.20	16.40	16.30				
20	QPSK	50	0	16.28	16.38	16.33				
20	QPSK	50	49	16.34	16.33	16.38				
20	QPSK	50	99	16.29	16.31	16.37				
20	QPSK	100	0	16.35	16.37	16.32				
20	QPSK	100	49	16.41	16.38	16.38				
20	QPSK	100	99	16.32	16.32	16.37				
20	QPSK	150	0	16.29	16.30	16.30				
20	QPSK	150	49	16.36	16.36	16.36				
20	QPSK	150	99	16.36	16.33	16.36				
20	QPSK	200	0	16.33	16.31	16.36				
20	QPSK	200	49	16.36	16.36	16.36				
20	QPSK	200	99	16.32	16.30	16.33				
20	QPSK	250	0	16.32	16.34	16.31				
20	QPSK	250	49	16.32	16.34	16.31				
20	QPSK	250	99	16.32	16.34	16.31				
20	QPSK	300	0	16.32	16.34	16.31				
20	QPSK	300	49	16.32	16.34	16.31				
20	QPSK	300	99	16.32	16.34	16.31				
20	QPSK	350	0	16.32	16.34	16.31				
20	QPSK	350	49	16.32	16.34	16.31				
20	QPSK	350	99	16.32	16.34	16.31				
20	QPSK	400	0	16.32	16.34	16.31				
20	QPSK	400	49	16.32	16.34	16.31				
20	QPSK	400	99	16.32	16.34	16.31				
20	QPSK	450	0	16.32	16.34	16.31				
20	QPSK	450	49	16.32	16.34	16.31				
20	QPSK	450	99	16.32	16.34	16.31				
20	QPSK	500	0	16.32	16.34	16.31				
20	QPSK	500	49	16.32	16.34	16.31				
20	QPSK	500	99	16.32	16.34	16.31				
20	QPSK	550	0	16.32	16.34	16.31				
20	QPSK	550	49	16.32	16.34	16.31				
20	QPSK	550	99	16.32	16.34	16.31				
20	QPSK	600	0	16.32	16.34	16.31				
20	QPSK	600	49	16.32	16.34	16.31				
20	QPSK	600	99	16.32	16.34	16.31				
20	QPSK	650	0	16.32	16.34	16.31				
20	QPSK	650	49	16.32	16.34	16.31				
20	QPSK	650	99	16.32	16.34	16.31				
20	QPSK	700	0	16.32	16.34	16.31				
20	QPSK	700	49	16.32	16.34	16.31				
20	QPSK	700	99	16.32	16.34	16.31				
20	QPSK	750	0	16.32	16.34	16.31				
20	QPSK	750	49	16.32	16.34	16.31				
20	QPSK	750	99	16.32	16.34	16.31				
20	QPSK	800	0	16.32	16.34	16.31				
20	QPSK	800	49	16.32	16.34	16.31				
20	QPSK	800	99	16.32	16.34	16.31				
20	QPSK	850	0	16.32	16.34	16.31				
20	QPSK	850	49	16.32	16.34	16.31				
20	QPSK	850	99	16.32	16.34	16.31				
20	QPSK	900	0	16.32	16.34	16.31				
20	QPSK	900	49	16.32	16.34	16.31				
20	QPSK	900	99	16.32	16.34	16.31				
20	QPSK	950	0	16.32	16.34	16.31				
20	QPSK	950	49	16.32	16.34	16.31				
20	QPSK	950	99	16.32	16.34	16.31				
20	QPSK	1000	0	16.32	16.34	16.31				
20	QPSK	1000	49	16.32	16.34	16.31				
20	QPSK	1000	99	16.32	16.34	16.31				

Band 4 Ant 1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)		
Channel	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.				
20	QPSK	1	0	17.11	17.21	17.15		18.4	0	
20	QPSK	1	49	16.94	17.04	16.98				
20	QPSK	1	99	16.96	17.06	17.00				
20	QPSK	50	0	16.94	17.07	17.07				
20	QPSK	50	49	16.94	17.07	17.07				
20	QPSK	50	99	16.94	17.07	17.07				
20	QPSK	100	0	16.96	17.15	17.10				
20	QPSK	100	49	17.04	17.15	17.04				
20	QPSK	100	99	17.01	17.14	17.09				
20	QPSK	150	0	17.06	17.18	17.02				
20	QPSK	150	49	16.98	17.08	17.13				
20	QPSK	150	99	16.98	17.14	17.08				
20	QPSK	200	0	17.02	17.17	17.09				
20	QPSK	200	49	16.95	17.06	17.07				
20	QPSK	200	99	16.95	17.06	17.07				
20	QPSK	250	0	16.99	17.09	17.13				
20	QPSK	250	49	16.99	17.13	17.09				
20	QPSK	250	99	16.99	17.13	17.09				
20	QPSK	300	0	17.02	17.17	17.09				
20	QPSK	300	49	16.95	17.06	17.07				
20	QPSK	300	99	16.95	17.06	17.07				
20	QPSK	350	0	16.99	17.09	17.13				
20	QPSK	350	49	16.99	17.13	17.09				
20	QPSK	350	99	16.99	17.13	17.09				
20	QPSK	400	0	17.02	17.17	17.09				
20	QPSK	400	49	16.95	17.06	17.07				
20	QPSK	400	99	16.95	17.06	17.07				
20	QPSK	450	0	16.99	17.09	17.13				
20	QPSK	450	49	16.99	17.13	17.09				
20	QPSK	450	99	16.99	17.13	17.09				
20	QPSK	500	0	17.02	17.17	17.09				
20	QPSK	500	49	16.95	17.06	17.07				
20	QPSK	500	99	16.95	17.06	17.07				
20	QPSK	550	0	16.99	17.09	17.13				
20	QPSK	550	49	16.99	17.13	17.09				
20	QPSK	550	99	16.99	17.13	17.09				
20	QPSK	600	0	17.02	17.17	17.09				
20	QPSK	600	49	16.95	17.06	17.07				
20	QPSK	600	99	16.95	17.06	17.07				
20	QPSK	650	0	16.99	17.09	17.13				
20	QPSK	650	49	16.99	17.13	17.09				
20	QPSK	650	99	16.99	17.13	17.09				
20	QPSK	700	0	17.02	17.17	17.09				
20	QPSK	700	49	16.95	17.06	17.07				
20	QPSK	700	99	16.95	17.06	17.07				
20	QPSK	750	0	16.99	17.09	17.13				
20	QPSK	750	49	16.99	17.13	17.09				
20	QPSK	750	99	16.99	17.13	17.09				
20	QPSK	800	0	17.02	17.17	17.09				
20	QPSK	800	49	16.95	17.06	17.07				
20	QPSK	800	99	16.95	17.06	17.07				
20	QPSK	850	0	16.99	17.09	17.13				
20	QPSK	850	49	16.99	17.13	17.09				
20	QPSK	850	99	16.99	17.13	17.09				
20	QPSK	900	0	17.02	17.17	17.09				
20	QPSK	900	49	16.95	17.06	17.07				
20	QPSK	900	99	16.95	17.06	17.07				
20	QPSK	950	0	16.99	17.09	17.13				
20	QPSK	950	49	16.99	17.13	17.09				
20	QPSK	950	99	16.99	17.13	17.09				
20	QPSK	1000	0	17.02	17.17	17.09				
20	QPSK	1000	49	16.95	17.06	17.07				
20	QPSK	1000	99	16.95	17.06	17.07				



Band 12 Ant 1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (min)	MFR (dB)	MFR (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.76	22.71				
10	QPSK	1	25	22.65	22.81	22.76				
10	QPSK	1	49	22.55	22.62	22.48			23.5	0
10	QPSK	25	0	22.66	22.75	22.63				
10	QPSK	25	25	22.62	22.72	22.62				
10	QPSK	25	50	22.58	22.68	22.58				
10	QPSK	50	0	22.63	22.72	22.69				
10	QPSK	50	25	22.62	22.74	22.69				
10	16QAM	1	25	22.58	22.53	22.56			23.5	0
10	16QAM	1	49	22.43	22.47	22.54				
10	16QAM	25	0	22.62	22.72	22.58				
10	16QAM	25	12	22.58	22.59	22.53			23.5	0
10	16QAM	25	25	22.59	22.61	22.56				
10	16QAM	50	0	22.62	22.70	22.63				
10	16QAM	1	25	22.59	22.47	22.50			23.5	0
10	16QAM	1	49	22.55	22.52	22.50				
10	16QAM	25	0	21.82	21.88	21.84				
10	16QAM	25	12	21.88	21.86	21.89			22.5	1
10	16QAM	25	25	21.82	21.83	21.84				
10	16QAM	50	0	21.85	21.86	21.88				
10	16QAM	1	25	21.89	21.84	21.83			20.5	3
10	256QAM	1	49	18.46	18.45	18.42				
10	256QAM	1	25	18.52	18.51	18.44				
10	256QAM	25	12	18.58	18.65	18.67			20.5	3
10	256QAM	25	25	18.52	18.65	18.63				
10	256QAM	50	0	18.63	18.65	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.50	22.47	22.48				
5	QPSK	1	24	22.58	22.51	22.35			23.5	0
5	QPSK	12	0	22.51	22.64	22.54				
5	QPSK	12	7	22.47	22.65	22.33				
5	QPSK	12	13	22.41	22.55	22.30			23.5	0
5	QPSK	25	0	22.49	22.45	22.43				
5	16QAM	1	25	22.38	22.32	22.30			23.5	0
5	16QAM	1	12	22.24	22.30	22.26				
5	16QAM	12	7	22.29	22.21	22.23			23.5	0
5	16QAM	12	13	22.29	22.21	22.26				
5	16QAM	25	0	22.33	22.48	22.41				
5	16QAM	1	25	22.34	22.45	22.44			23.5	0
5	16QAM	1	12	22.28	22.37	22.30				
5	16QAM	12	7	22.42	22.37	22.32			22	1.5
5	16QAM	12	13	22.44	22.45	22.44				
5	16QAM	25	0	22.33	22.48	22.41				
5	16QAM	1	25	22.34	22.45	22.44			23.5	0
5	16QAM	1	12	22.28	22.30	22.26				
5	16QAM	12	7	22.42	22.37	22.32			22	1.5
5	16QAM	12	13	22.44	22.45	22.44				
5	16QAM	25	0	22.33	22.48	22.41				
5	256QAM	1	24	18.28	18.20	18.22			20.5	3
5	256QAM	1	12	18.38	18.42	18.36				
5	256QAM	12	7	18.42	18.43	18.40				
5	256QAM	12	13	18.42	18.43	18.40			20.5	3
5	256QAM	25	0	18.58	18.56	18.49				
5	256QAM	25	0	18.63	18.71	18.65				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.30	22.40	22.34				
3	QPSK	1	14	22.32	22.38	22.22			23.5	0
3	QPSK	8	0	22.35	22.41	22.46				
3	QPSK	8	4	22.33	22.54	22.45				
3	QPSK	8	7	22.35	22.61	22.46			23.5	0
3	16QAM	1	0	22.39	22.37	22.30				
3	16QAM	1	8	22.32	22.28	22.28			23.5	0
3	16QAM	1	4	22.33	22.29	22.30				
3	16QAM	8	4	22.45	22.29	22.29			23.5	0
3	16QAM	8	0	22.39	22.38	22.42				
3	16QAM	16	0	22.32	22.40	22.36				
3	16QAM	1	0	22.32	22.45	22.32			23.5	0
3	16QAM	1	8	22.44	22.38	22.34				
3	16QAM	8	0	22.42	22.23	22.39				
3	16QAM	8	0	21.91	21.40	21.46			22.5	1
3	16QAM	8	7	21.48	21.41	21.44				
3	16QAM	16	0	21.94	21.39	21.37				
3	256QAM	1	8	18.22	18.26	18.26			20.5	3
3	256QAM	1	14	18.37	18.18	18.18				
3	256QAM	8	0	18.41	18.45	18.46				
3	256QAM	8	4	18.42	18.34	18.40			20.5	3
3	256QAM	8	7	18.55	18.34	18.34				
3	256QAM	16	0	18.52	18.45	18.44				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.44	22.49	22.50				
1.4	QPSK	1	5	22.31	22.37	22.22				
1.4	QPSK	3	0	22.56	22.49	22.35				
1.4	QPSK	3	1	22.21	22.51	22.43				
1.4	QPSK	3	1	22.32	22.44	22.36			23.5	0
1.4	16QAM	1	5	22.28	22.24	22.35				
1.4	16QAM	1	3	22.33	22.63	22.29			23.5	0
1.4	16QAM	3	1	22.46	22.19	22.41				
1.4	16QAM	3	1	22.39	22.35	22.38				
1.4	16QAM	6	0	22.37	22.63	22.34			23.5	0
1.4	16QAM	1	0	22.32	22.49	22.49				
1.4	16QAM	1	5	22.36	22.21	22.25				
1.4	16QAM	1	5	22.35	22.27	22.24			23.5	0
1.4	16QAM	3	0	22.32	22.49	22.44				
1.4	16QAM	3	3	22.25	22.52	22.33				
1.4	16QAM	3	3	22.41	22.38	22.48				
1.4	16QAM	8	0	21.29	21.62	21.36			22.5	1
1.4	256QAM	1	3	18.24	18.23	18.16				
1.4	256QAM	1	0	18.39	18.46	18.20			20.5	3
1.4	256QAM	3	0	18.48	18.43	18.31				
1.4	256QAM	3	1	18.27	18.45	18.53				
1.4	256QAM	8	0	18.52	18.40	18.48			20.5	3

Band 13 Ant 1 DS13 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (min)	MFR (dB)	MFR (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.52	22.51	22.51				
10	QPSK	1	25	22.51	22.51	22.51				
10	QPSK	1	49	22.14	22.14	22.14			23.5	0
10	QPSK	25	0	22.53	22.53	22.53				
10	QPSK	25	25	22.58	22.58	22.58			23.5	0
10	QPSK	50	0	22.15	22.15	22.15				
10	16QAM	1	25	22.13	22.13	22.13			23.5	0
10	16QAM	1	49	22.45	22.45	22.45				
10	16QAM	25	0	22.14	22.27	22.29				
10	16QAM	25	12	22.13	22.10	22.07			23	0.5
10	16QAM	25	25	22.16	22.16	22.16				
10	16QAM	50	0	22.15	22.15	22.15				
10	16QAM	1	25	21.89	21.89	21.89				
10	16QAM	1	49	21.84	21.84	21.84			23	0.5
10	16QAM	25	0	20.74	20.74	20.74				
10	16QAM	25	12	20.84	20.84	20.84			22	1.5
10	16QAM	25	25	20.85	20.85	20.85				
10	16QAM	50	0	20.80	20.80	20.80				
10	256QAM	1	49	18.70	18.70	18.70			20	3.5
10	256QAM	1	25	18.52	18.52	18.52				
10	256QAM	1	49	18.52	18.52	18.52				
10	256QAM	25	12	18.63	18.63	18.63			20	3.5
10	256QAM	25	25	18.71	18.71	18.71				
10	256QAM	50	0	18.63	18.63	18.63				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.12	22.21	22.08				
5	QPSK	1	24	21.92	22.08	21.96			2	



Band 26 Ant 1 DSI3 Standalone										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Tune-up (MHz)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.63	22.65	22.61	24	0		
15	QPSK	37	0	22.43	22.52	22.42				
15	QPSK	1	74	22.48	22.55	22.41				
15	QPSK	36	0	22.50	22.59	22.54				
15	QPSK	36	20	22.55	22.42	22.52				
15	QPSK	36	36	22.39	22.49	22.42				
15	QPSK	75	0	22.20	22.45	22.33				
15	HQAM	1	0	22.34	22.44	22.38				
15	HQAM	1	37	22.37	22.40	22.39	24	0		
15	HQAM	1	74	22.22	22.51	22.45				
15	HQAM	36	0	22.52	22.08	21.98				
15	HQAM	36	20	21.81	21.84	21.82				
15	HQAM	36	36	21.91	21.86	21.90				
15	HQAM	75	0	21.59	22.02	21.95				
15	HQAM	1	0	22.01	22.12	22.01				
15	HQAM	1	37	21.92	21.81	21.87	23.5	0.5		
15	HQAM	1	74	21.89	21.80	21.94				
15	HQAM	36	0	21.06	21.10	21.07				
15	HQAM	36	20	21.02	21.14	21.08				
15	HQAM	36	36	21.10	21.08	21.09	22.5	1.5		
15	25QAM	1	0	20.82	20.99	20.87				
15	25QAM	1	37	18.87	18.84	18.87				
15	25QAM	1	74	18.92	18.90	18.91				
15	25QAM	36	0	18.88	18.86	18.88				
15	25QAM	36	20	19.01	19.00	19.07				
15	25QAM	36	36	18.98	19.02	18.91				
15	25QAM	75	0	18.84	18.88	18.87				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.62	22.61	22.41	24	0		
10	QPSK	1	49	22.43	22.43	22.30				
10	QPSK	25	0	22.45	22.48	22.48				
10	QPSK	12	22	22.29	22.38	22.28				
10	QPSK	25	25	22.32	22.45	22.27				
10	HQAM	1	0	22.42	22.37	22.24				
10	HQAM	1	37	22.22	22.39	22.30	24	0		
10	HQAM	1	74	22.22	22.39	22.30				
10	HQAM	25	12	21.75	21.76	21.74				
10	HQAM	25	13	21.76	21.76	21.73	23.5	0.5		
10	HQAM	50	0	21.88	21.96	21.88				
10	HQAM	1	0	21.88	22.06	21.95				
10	HQAM	25	25	21.88	21.96	21.94	23.5	0.5		
10	HQAM	1	49	21.23	21.84	21.87				
10	HQAM	25	0	20.94	21.05	20.94				
10	HQAM	25	12	20.87	21.09	20.98				
10	HQAM	25	25	20.95	21.04	20.95	22.5	1.5		
10	HQAM	50	0	20.78	20.99	20.82				
10	25QAM	1	0	18.81	18.86	18.86				
10	25QAM	1	25	18.79	18.75	18.83				
10	25QAM	1	49	18.81	18.86	18.86	20.5	3.5		
10	25QAM	25	0	18.85	18.86	18.86				
10	25QAM	25	12	18.93	18.92	18.94				
10	25QAM	25	25	18.92	18.88	18.87	20.5	3.5		
10	25QAM	50	0	18.71	18.88	18.87				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.62	22.61	22.41	24	0		
5	QPSK	1	12	22.28	22.44	22.41				
5	QPSK	1	24	22.44	22.47	22.35				
5	QPSK	12	0	22.29	22.38	22.28				
5	QPSK	12	7	22.29	22.31	22.25				
5	QPSK	12	13	22.27	22.37	22.28	24	0		
5	HQAM	1	0	22.42	22.49	22.25				
5	HQAM	1	12	22.34	22.33	22.33	24	0		
5	HQAM	1	24	22.29	22.36	22.36				
5	HQAM	12	0	21.98	21.98	21.99				
5	HQAM	12	7	21.76	21.79	21.73	23.5	0.5		
5	HQAM	25	0	21.88	21.91	21.82				
5	HQAM	1	0	21.94	22.07	21.93				
5	HQAM	12	12	21.85	21.71	21.81	23.5	0.5		
5	HQAM	1	24	21.85	21.81	21.81				
5	HQAM	12	0	21.02	20.99	20.98				
5	HQAM	12	7	20.92	21.10	20.99				
5	HQAM	12	13	21.08	20.95	20.95	22.5	1.5		
5	HQAM	25	0	20.74	20.89	20.80				
5	25QAM	1	0	18.87	18.86	18.81				
5	25QAM	1	12	18.73	18.70	18.78				
5	25QAM	1	24	18.80	18.76	18.77				
5	25QAM	25	0	18.95	18.94	18.90				
5	25QAM	12	7	18.89	18.95	18.97				
5	25QAM	12	13	18.94	18.88	18.78	20.5	3.5		
5	25QAM	25	0	18.71	18.88	18.87				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.62	22.61	22.41	24	0		
3	QPSK	1	8	22.31	22.38	22.40				
3	QPSK	1	14	22.41	22.44	22.27				
3	QPSK	8	0	22.36	22.40	22.44				
3	QPSK	8	4	22.31	22.35	22.25				
3	QPSK	8	7	22.24	22.46	22.37	24	0		
3	HQAM	1	0	22.42	22.44	22.23				
3	HQAM	1	8	22.27	22.31	22.28	24	0		
3	HQAM	1	14	22.36	22.45	22.46				
3	HQAM	8	0	21.98	22.04	21.88				
3	HQAM	8	4	21.71	21.76	21.71	23.5	0.5		
3	HQAM	15	0	21.88	21.95	21.87				
3	HQAM	1	0	21.90	22.05	21.93				
3	HQAM	15	1	21.79	21.74	21.82	23.5	0.5		
3	HQAM	1	14	21.80	21.82	21.82				
3	HQAM	8	0	21.01	21.01	20.92				
3	HQAM	8	7	20.90	21.02	20.99				
3	HQAM	8	7	20.98	21.03	20.90	22.5	1.5		
3	HQAM	15	0	20.83	20.94	20.79				
3	25QAM	1	0	18.86	18.94	18.83				
3	25QAM	1	8	18.81	18.72	18.75				
3	25QAM	1	14	18.94	18.94	18.96				
3	25QAM	8	0	18.95	18.96	18.94				
3	25QAM	8	4	18.98	18.95	19.02				
3	25QAM	8	7	18.93	18.93	18.88	20.5	3.5		
3	25QAM	15	0	18.80	18.83	18.83				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.52	22.50	22.40	24	0		
1.4	QPSK	1	3	22.29	22.39	22.31				
1.4	QPSK	1	5	22.42	22.43	22.33				
1.4	QPSK	1	49	22.45	22.56	22.44				
1.4	QPSK	3	1	22.32	22.31	22.30				
1.4	QPSK	3	3	22.25	22.37	22.36				
1.4	QPSK	3	5	22.25	22.38	22.21	24	0		
1.4	HQAM	1	0	22.49	22.50	22.49				
1.4	HQAM	1	3	22.22	22.26	22.27	24	0		
1.4	HQAM	1	5	22.21	22.37	22.27				
1.4	HQAM	3	0	22.47	22.50	22.38				
1.4	HQAM	3	1	22.22	22.22	22.28				
1.4	HQAM	3	22	22.34	22.30	22.25				
1.4	HQAM	6	0	21.86	22.01	21.91	23.5	0.5		
1.4	HQAM	1	0	21.90	22.01	21.94				
1.4	HQAM	1	3	21.80	21.87	21.82				
1.4	HQAM	1	5	21.86	21.84	21.87	23.5	0.5		
1.4	HQAM	3	0	21.97	21.88	21.93				
1.4	HQAM	3	1	21.87	22.04	22.00				
1.4	HQAM	3	3	22.01	21.94	21.87				
1.4	HQAM	6	0	20.72	20.82	20.84	22.5	1.5		
1.4	25QAM	1	0	18.86	19.05	18.85				
1.4	25QAM	1	3	18.75	18.78	18.75				
1.4	25QAM	3	0	18.81	18.86	18.86				
1.4	25QAM	3	3	18.83	18.98	18.85	20			



Band 38 PC3 Ant 1 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				37850	38000	38150				
Frequency (MHz)				2580	2565	2610				
20	QPSK	1	0	20.60	20.68	20.65	22.2	0		
20	QPSK	1	49	20.39	20.43	20.63				
20	QPSK	1	99	20.29	20.45	20.62				
20	QPSK	50	0	20.38	20.65	20.61	22.2	0		
20	QPSK	50	24	20.37	20.41	20.60				
20	QPSK	50	50	20.32	20.49	20.56				
20	QPSK	100	0	20.39	20.46	20.41	22.2	0		
20	16QAM	1	0	20.30	20.43	20.58				
20	16QAM	1	49	20.36	20.45	20.65				
20	16QAM	1	99	20.31	20.43	20.59	22.2	0		
20	16QAM	50	0	20.36	20.42	20.61				
20	16QAM	50	24	20.34	20.41	20.63				
20	16QAM	50	50	20.31	20.44	20.63	22.2	0		
20	16QAM	100	0	20.34	20.40	20.60				
20	64QAM	1	0	20.38	20.43	20.56				
20	64QAM	1	49	20.33	20.42	20.55	22.2	0		
20	64QAM	1	99	20.34	20.44	20.65				
20	64QAM	50	0	20.33	20.44	20.63				
20	64QAM	50	24	20.37	20.43	20.60	22.2	0		
20	64QAM	50	50	20.35	20.46	20.63				
20	64QAM	100	0	20.38	20.43	20.62				
20	256QAM	1	0	19.90	20.12	19.97	21	1.2		
20	256QAM	1	49	19.92	20.10	19.90				
20	256QAM	1	99	19.92	20.01	19.94				
20	256QAM	50	0	19.87	19.99	19.93	21	1.2		
20	256QAM	50	24	19.92	20.03	19.88				
20	256QAM	50	50	19.89	20.02	19.83				
20	256QAM	100	0	19.95	19.96	19.91				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	20.49	20.60	20.54	22.2	0		
15	QPSK	1	37	20.26	20.35	20.56				
15	QPSK	1	74	20.23	20.36	20.48				
15	QPSK	36	0	20.32	20.46	20.49	22.2	0		
15	QPSK	36	20	20.27	20.33	20.47				
15	QPSK	36	39	20.34	20.39	20.50				
15	QPSK	75	0	20.31	20.38	20.30	22.2	0		
15	16QAM	1	0	20.34	20.36	20.48				
15	16QAM	1	37	20.27	20.35	20.55				
15	16QAM	1	74	20.34	20.30	20.47	22.2	0		
15	16QAM	36	0	20.32	20.43	20.53				
15	16QAM	36	20	20.20	20.32	20.55				
15	16QAM	36	39	20.21	20.37	20.53	22.2	0		
15	16QAM	75	0	20.21	20.26	20.51				
15	64QAM	1	0	20.31	20.30	20.44				
15	64QAM	1	37	20.25	20.29	20.46	22.2	0		
15	64QAM	1	74	20.28	20.37	20.56				
15	64QAM	36	0	20.22	20.35	20.57				
15	64QAM	36	20	20.27	20.32	20.49	22.2	0		
15	64QAM	36	39	20.28	20.39	20.54				
15	64QAM	75	0	20.24	20.34	20.52				
15	256QAM	1	0	19.85	19.95	19.81	21	1.2		
15	256QAM	1	37	19.85	20.05	19.73				
15	256QAM	1	74	19.81	19.94	19.89				
15	256QAM	36	0	19.76	19.83	19.84	21	1.2		
15	256QAM	36	20	19.85	19.85	19.73				
15	256QAM	36	39	19.84	19.92	19.67				
15	256QAM	75	0	19.79	19.94	19.77				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	20.52	20.58	20.57	22.2	0		
10	QPSK	1	25	20.27	20.31	20.50				
10	QPSK	1	49	20.34	20.32	20.48				
10	QPSK	25	0	20.28	20.55	20.52	22.2	0		
10	QPSK	25	12	20.24	20.33	20.53				
10	QPSK	25	25	20.24	20.40	20.46				
10	QPSK	50	0	20.31	20.34	20.32	22.2	0		
10	16QAM	1	0	20.34	20.35	20.44				
10	16QAM	1	25	20.28	20.31	20.56				
10	16QAM	1	49	20.25	20.35	20.49	22.2	0		
10	16QAM	25	0	20.25	20.33	20.48				
10	16QAM	25	12	20.24	20.34	20.57				
10	16QAM	25	25	20.34	20.36	20.56	22.2	0		
10	16QAM	50	0	20.20	20.31	20.53				
10	64QAM	1	0	20.32	20.30	20.44				
10	64QAM	1	25	20.21	20.29	20.42	22.2	0		
10	64QAM	1	49	20.20	20.30	20.58				
10	64QAM	25	0	20.20	20.31	20.55				
10	64QAM	25	12	20.30	20.35	20.48	22.2	0		
10	64QAM	25	25	20.24	20.36	20.53				
10	64QAM	50	0	20.30	20.36	20.55				
10	256QAM	1	0	19.76	19.97	19.85	21	1.2		
10	256QAM	1	25	19.75	19.89	19.87				
10	256QAM	1	49	19.88	19.94	19.81				
10	256QAM	25	0	19.78	19.85	19.88	21	1.2		
10	256QAM	25	12	19.76	19.81	19.80				
10	256QAM	25	25	19.81	20.00	19.71				
10	256QAM	50	0	19.90	19.92	19.77				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	20.51	20.61	20.55	22.2	0		
5	QPSK	1	12	20.32	20.30	20.50				
5	QPSK	1	24	20.28	20.38	20.55				
5	QPSK	12	0	20.28	20.51	20.48	22.2	0		
5	QPSK	12	7	20.31	20.28	20.51				
5	QPSK	12	13	20.23	20.37	20.45				
5	QPSK	25	0	20.32	20.32	20.27	22.2	0		
5	16QAM	1	0	20.28	20.35	20.48				
5	16QAM	1	12	20.23	20.38	20.55				
5	16QAM	1	24	20.35	20.29	20.47	22.2	0		
5	16QAM	12	0	20.25	20.36	20.55				
5	16QAM	12	7	20.27	20.32	20.50				
5	16QAM	12	13	20.35	20.36	20.52	22.2	0		
5	16QAM	25	0	20.27	20.28	20.50				
5	64QAM	1	0	20.30	20.30	20.43				
5	64QAM	1	12	20.23	20.30	20.43	22.2	0		
5	64QAM	1	24	20.21	20.37	20.54				
5	64QAM	12	0	20.23	20.33	20.51				
5	64QAM	12	7	20.26	20.29	20.51	22.2	0		
5	64QAM	12	13	20.26	20.40	20.56				
5	64QAM	25	0	20.26	20.32	20.55				
5	256QAM	1	0	19.87	20.08	19.87	21	1.2		
5	256QAM	1	12	19.78	19.99	19.74				
5	256QAM	1	24	19.76	19.90	19.84				
5	256QAM	12	0	19.78	19.87	19.81	21	1.2		
5	256QAM	12	7	19.85	19.86	19.81				
5	256QAM	12	13	19.75	19.99	19.74				
5	256QAM	25	0	19.87	19.80	19.86				

Band 38 PC2 Ant 1 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				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	22.38	22.42	22.40	23.8	0		
20	QPSK	1	49	22.34	22.35	22.34				
20	QPSK	1	99	22.32	22.32	22.30				
20	QPSK	50	0	22.28	22.38	22.31	23.8	0		
20	QPSK	50	24	22.31	22.31	22.35				
20	QPSK	50	50	22.33	22.37	22.34				
20	QPSK	100	0	22.33	22.36	22.30	23.8	0		
20	16QAM	1	0	22.30	22.37	22.28				
20	16QAM	1	49	22.26	22.37	22.35				
20	16QAM	1	99	22.26	22.30	22.35	23.8	0		
20	16QAM	50	0	22.33	22.38	22.31				
20	16QAM	50	24	22.33	22.37	22.31				
20	16QAM	50								



Band 41 PC3 Ant 1 DSI3 Standalone											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39780	40185	40620	41055	41490			
Frequency (MHz)				2506	25419.5	2593	26365.5	26880			
20	QPSK	1	0	20.70	20.55	20.71	20.48	20.42		22.2	0
20	QPSK	1	49	20.39	20.43	20.63	20.43	20.32			
20	QPSK	1	99	20.29	20.45	20.62	20.40	20.33			
20	QPSK	50	0	20.38	20.45	20.61	20.43	20.29			
20	QPSK	50	24	20.37	20.41	20.60	20.36	20.32		22.2	0
20	QPSK	50	50	20.32	20.49	20.56	20.34	20.34			
20	QPSK	100	0	20.39	20.46	20.57	20.36	20.33			
20	16QAM	1	0	20.30	20.43	20.58	20.37	20.33			
20	16QAM	1	49	20.36	20.45	20.65	20.41	20.28		22.2	0
20	16QAM	1	99	20.31	20.43	20.59	20.42	20.37			
20	16QAM	50	0	20.36	20.42	20.61	20.34	20.32			
20	16QAM	50	24	20.34	20.41	20.63	20.40	20.30		22.2	0
20	16QAM	50	50	20.31	20.44	20.63	20.33	20.29			
20	16QAM	100	0	20.34	20.40	20.60	20.37	20.29			
20	64QAM	1	0	20.38	20.43	20.56	20.40	20.36			
20	64QAM	1	49	20.33	20.42	20.55	20.39	20.37		22.2	0
20	64QAM	1	99	20.34	20.44	20.65	20.41	20.35			
20	64QAM	50	0	20.33	20.44	20.63	20.34	20.33			
20	64QAM	50	24	20.37	20.43	20.60	20.36	20.32		22.2	0
20	64QAM	50	50	20.35	20.46	20.63	20.42	20.32			
20	64QAM	100	0	20.38	20.43	20.62	20.40	20.36			
20	256QAM	1	0	20.32	20.47	20.62	20.36	20.33			
20	256QAM	1	49	20.37	20.45	20.57	20.43	20.30		21	1.2
20	256QAM	1	99	20.33	20.41	20.58	20.40	20.28			
20	256QAM	50	0	20.37	20.41	20.60	20.39	20.37			
20	256QAM	50	24	20.36	20.44	20.56	20.42	20.37		21	1.2
20	256QAM	50	50	20.31	20.45	20.63	20.31	20.33			
20	256QAM	100	0	20.37	20.48	20.63	20.34	20.28			
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.40	20.43	20.60	20.42	20.32		22.2	0
15	QPSK	1	37	20.29	20.32	20.52	20.35	20.24			
15	QPSK	1	74	20.22	20.36	20.50	20.32	20.24			
15	QPSK	36	0	20.26	20.36	20.52	20.34	20.26			
15	QPSK	36	20	20.27	20.33	20.49	20.31	20.26		22.2	0
15	QPSK	36	39	20.26	20.40	20.47	20.25	20.28			
15	QPSK	75	0	20.29	20.37	20.52	20.25	20.21			
15	16QAM	1	0	20.20	20.36	20.49	20.32	20.25			
15	16QAM	1	37	20.24	20.39	20.54	20.35	20.22		22.2	0
15	16QAM	1	74	20.21	20.32	20.50	20.36	20.20			
15	16QAM	36	0	20.26	20.37	20.51	20.22	20.26			
15	16QAM	36	20	20.28	20.32	20.58	20.31	20.21		22.2	0
15	16QAM	36	39	20.26	20.34	20.51	20.23	20.22			
15	16QAM	75	0	20.29	20.29	20.55	20.32	20.21			
15	64QAM	1	0	20.32	20.35	20.48	20.31	20.25			
15	64QAM	1	37	20.29	20.34	20.45	20.34	20.28		22.2	0
15	64QAM	1	74	20.22	20.32	20.54	20.33	20.20			
15	64QAM	36	0	20.28	20.34	20.53	20.34	20.26			
15	64QAM	36	20	20.33	20.37	20.50	20.31	20.22		22.2	0
15	64QAM	36	39	20.25	20.35	20.58	20.33	20.26			
15	64QAM	75	0	20.26	20.36	20.52	20.32	20.21			
15	256QAM	1	0	20.25	20.42	20.50	20.28	20.22			
15	256QAM	1	37	20.22	20.35	20.47	20.34	20.26		21	1.2
15	256QAM	1	74	20.22	20.32	20.46	20.28	20.23			
15	256QAM	36	0	20.26	20.36	20.53	20.34	20.25			
15	256QAM	36	20	20.25	20.37	20.52	20.37	20.31		21	1.2
15	256QAM	36	39	20.25	20.37	20.48	20.28	20.28			
15	256QAM	75	0	20.28	20.38	20.51	20.22	20.20			
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	20.39	20.47	20.65	20.43	20.36		22.20	0
10	QPSK	1	25	20.28	20.34	20.47	20.33	20.24			
10	QPSK	1	49	20.23	20.39	20.55	20.33	20.29			
10	QPSK	25	0	20.30	20.35	20.50	20.36	20.20		22.2	0
10	QPSK	25	12	20.25	20.34	20.48	20.28	20.23			
10	QPSK	25	25	20.23	20.43	20.49	20.25	20.22			
10	QPSK	50	0	20.34	20.34	20.53	20.24	20.24			
10	16QAM	1	0	20.25	20.32	20.52	20.27	20.27			
10	16QAM	1	25	20.22	20.40	20.58	20.31	20.26		22.2	0
10	16QAM	1	49	20.22	20.34	20.55	20.31	20.30			
10	16QAM	25	0	20.27	20.36	20.54	20.29	20.28			
10	16QAM	25	12	20.25	20.31	20.54	20.36	20.21		22.2	0
10	16QAM	25	25	20.20	20.37	20.57	20.26	20.22			
10	16QAM	50	0	20.25	20.31	20.56	20.25	20.22			
10	64QAM	1	0	20.34	20.32	20.47	20.34	20.26			
10	64QAM	1	25	20.22	20.32	20.49	20.33	20.26		22.2	0
10	64QAM	1	49	20.29	20.34	20.57	20.31	20.31			
10	64QAM	25	0	20.29	20.38	20.54	20.26	20.28			
10	64QAM	25	12	20.32	20.35	20.54	20.25	20.22		22.2	0
10	64QAM	25	25	20.28	20.38	20.58	20.37	20.21			
10	64QAM	50	0	20.30	20.37	20.53	20.30	20.31			
10	256QAM	1	0	20.21	20.35	20.55	20.31	20.28			
10	256QAM	1	25	20.28	20.34	20.47	20.31	20.24		21	1.2
10	256QAM	1	49	20.23	20.35	20.47	20.31	20.19			
10	256QAM	25	0	20.28	20.35	20.48	20.27	20.26			
10	256QAM	25	12	20.31	20.33	20.47	20.33	20.30		21	1.2
10	256QAM	25	25	20.23	20.41	20.46	20.27	20.29			
10	256QAM	50	0	20.30	20.41	20.54	20.26	20.21			
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.8	2687.5			
5	QPSK	1	0	20.37	20.51	20.64	20.39	20.36		22.20	0
5	QPSK	1	12	20.28	20.36	20.57	20.34	20.21			
5	QPSK	1	24	20.20	20.40	20.53	20.36	20.26			
5	QPSK	12	0	20.33	20.33	20.56	20.38	20.20			
5	QPSK	12	7	20.30	20.35	20.52	20.28	20.22		22.2	0
5	QPSK	12	13	20.24	20.41	20.45	20.29	20.26			
5	QPSK	25	0	20.31	20.38	20.50	20.31	20.26			
5	16QAM	1	0	20.21	20.33	20.51	20.29	20.23			
5	16QAM	1	12	20.25	20.36	20.53	20.31	20.20		22.2	0
5	16QAM	1	24	20.24	20.37	20.51	20.35	20.32			
5	16QAM	12	0	20.29	20.31	20.56	20.28	20.22			
5	16QAM	12	7	20.24	20.29	20.56	20.29	20.23		22.2	0
5	16QAM	12	13	20.25	20.34	20.57	20.22	20.24			
5	16QAM	25	0	20.29	20.35	20.53	20.32	20.22			
5	64QAM	1	0	20.33	20.35	20.47	20.36	20.29			
5	64QAM	1	12	20.28	20.32	20.45	20.32	20.26		22.2	0
5	64QAM	1	24	20.24	20.34	20.56	20.36	20.27			
5	64QAM	12	0	20.28	20.39	20.58	20.30	20.25			
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Band 42 Part27Q Ant 2 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				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	21.45	21.65	21.39	22.5	0		
20	QPSK	1	49	21.43	21.47	21.37				
20	QPSK	1	99	21.36	21.49	21.40				
20	QPSK	50	0	21.43	21.54	21.42				
20	QPSK	50	24	21.41	21.50	21.42	22	0.5		
20	QPSK	50	50	21.38	21.42	21.36				
20	QPSK	100	0	20.45	20.51	20.45				
20	16QAM	1	0	21.35	21.49	21.39	22	0.5		
20	16QAM	1	49	21.30	21.42	21.29				
20	16QAM	1	99	21.23	21.37	21.22				
20	16QAM	50	0	21.48	21.30	21.36				
20	16QAM	50	24	21.46	21.32	21.40				
20	16QAM	50	50	21.24	21.39	21.24	21.5	1		
20	16QAM	100	0	18.66	18.51	18.67				
20	64QAM	1	0	21.37	21.50	21.46				
20	64QAM	1	49	21.50	21.54	21.50	22	0.5		
20	64QAM	1	99	21.33	21.44	21.31				
20	64QAM	50	0	20.36	20.26	20.22				
20	64QAM	50	24	20.40	20.24	20.31				
20	64QAM	50	50	20.33	20.44	20.30	20.5	2		
20	64QAM	100	0	18.55	18.50	18.67				
20	256QAM	1	0	18.51	18.58	18.52				
20	256QAM	1	49	18.42	18.53	18.39	19	3.5		
20	256QAM	1	99	18.30	18.39	18.31				
20	256QAM	50	0	18.38	18.52	18.38				
20	256QAM	50	24	18.48	18.54	18.51				
20	256QAM	50	50	18.34	18.43	18.33	19	3.5		
20	256QAM	100	0	18.45	18.53	18.50				
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	21.51	21.60	21.43	22.5	0		
15	QPSK	1	37	21.35	21.39	21.32				
15	QPSK	1	74	21.22	21.43	21.24				
15	QPSK	36	0	21.41	21.46	21.29				
15	QPSK	36	20	21.32	21.37	21.27	22	0.5		
15	QPSK	36	39	21.24	21.32	21.28				
15	QPSK	75	0	21.27	21.37	21.32				
15	16QAM	1	0	21.41	21.39	21.39				
15	16QAM	1	37	21.23	21.39	21.25	22	0.5		
15	16QAM	1	74	21.19	21.25	21.21				
15	16QAM	36	0	21.43	21.33	21.43				
15	16QAM	36	20	21.36	21.40	21.31	21.5	1		
15	16QAM	36	39	21.16	21.33	21.25				
15	16QAM	75	0	21.23	21.43	21.34				
15	64QAM	1	0	21.33	21.37	21.32				
15	64QAM	1	37	21.35	21.45	21.42	22	0.5		
15	64QAM	1	74	21.22	21.29	21.22				
15	64QAM	36	0	20.33	20.46	20.45				
15	64QAM	36	20	20.46	20.50	20.39	20.5	2		
15	64QAM	36	39	20.23	20.39	20.32				
15	64QAM	75	0	20.34	20.38	20.26				
15	256QAM	1	0	18.34	18.52	18.32				
15	256QAM	1	37	18.31	18.42	18.27	19	3.5		
15	256QAM	1	74	18.31	18.30	18.26				
15	256QAM	36	0	18.32	18.48	18.29				
15	256QAM	36	20	18.36	18.50	18.38				
15	256QAM	36	39	18.21	18.33	18.26	19	3.5		
15	256QAM	75	0	18.28	18.38	18.40				
Channel				42140	42590	43040				
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	21.53	21.53	21.46	22.5	0		
10	QPSK	1	25	21.29	21.34	21.26				
10	QPSK	1	49	21.29	21.44	21.22				
10	QPSK	25	0	21.42	21.47	21.26				
10	QPSK	25	12	21.25	21.47	21.28	22	0.5		
10	QPSK	25	25	21.26	21.36	21.24				
10	QPSK	50	0	21.37	21.45	21.38				
10	16QAM	1	0	21.33	21.45	21.37				
10	16QAM	1	25	21.26	21.37	21.26	22	0.5		
10	16QAM	1	49	21.14	21.34	21.22				
10	16QAM	25	0	21.49	21.45	21.44				
10	16QAM	25	12	21.30	21.46	21.26	21.5	1		
10	16QAM	25	25	21.23	21.25	21.22				
10	16QAM	50	0	21.25	21.38	21.35				
10	64QAM	1	0	21.29	21.43	21.32				
10	64QAM	1	25	21.34	21.40	21.43	22	0.5		
10	64QAM	1	49	21.33	21.39	21.19				
10	64QAM	25	0	20.30	20.45	20.43				
10	64QAM	25	12	20.43	20.50	20.40	20.5	2		
10	64QAM	25	25	20.21	20.39	20.32				
10	64QAM	50	0	20.28	20.41	20.30				
10	256QAM	1	0	18.34	18.50	18.37				
10	256QAM	1	25	18.37	18.43	18.33	19	3.5		
10	256QAM	1	49	18.33	18.29	18.22				
10	256QAM	25	0	18.32	18.45	18.34				
10	256QAM	25	12	18.34	18.44	18.38	19	3.5		
10	256QAM	25	25	18.26	18.39	18.19				
10	256QAM	50	0	18.34	18.46	18.31				
Channel				42115	42590	43065				
Frequency (MHz)				3422.5	3500	3577.5				
5	QPSK	1	0	21.56	21.52	21.45	22.5	0		
5	QPSK	1	12	21.35	21.35	21.34				
5	QPSK	1	24	21.33	21.40	21.22				
5	QPSK	12	0	21.42	21.47	21.29				
5	QPSK	12	7	21.27	21.39	21.34	22	0.5		
5	QPSK	12	13	21.25	21.32	21.29				
5	QPSK	25	0	21.30	21.46	21.29				
5	16QAM	1	0	21.36	21.40	21.35				
5	16QAM	1	12	21.28	21.37	21.24	22	0.5		
5	16QAM	1	24	21.18	21.27	21.16				
5	16QAM	12	0	21.50	21.47	21.32				
5	16QAM	12	7	21.30	21.43	21.33	21.5	1		
5	16QAM	12	13	21.17	21.25	21.24				
5	16QAM	25	0	21.29	21.40	21.34				
5	64QAM	1	0	21.27	21.45	21.22				
5	64QAM	1	12	21.34	21.41	21.40	22	0.5		
5	64QAM	1	24	21.23	21.34	21.23				
5	64QAM	12	0	20.39	20.42	20.46				
5	64QAM	12	7	20.39	20.49	20.39	20.5	2		
5	64QAM	12	13	20.15	20.36	20.35				
5	64QAM	25	0	20.26	20.39	20.32				
5	256QAM	1	0	18.34	18.54	18.34				
5	256QAM	1	12	18.33	18.46	18.33	19	3.5		
5	256QAM	1	24	18.29	18.27	18.20				
5	256QAM	12	0	18.34	18.46	18.33				
5	256QAM	12	7	18.29	18.44	18.34	19	3.5		
5	256QAM	12	13	18.23	18.29	18.23				
5	256QAM	25	0	18.31	18.41	18.34				

Band 42 Part96 Ant 2 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				43190	43340	43490				
Frequency (MHz)				3560	3575	3590				
20	QPSK	1	0	21.27	21.55	21.16	22.5	0		
20	QPSK	1	49	21.32	21.33	21.17				
20	QPSK	1	99	21.21	21.25	21.17				
20	QPSK	50	0	21.33	21.37	21.29				
20	QPSK	50	24	21.18	21.40	21.18	22	0.5		
20	QPSK	50	50	21.16	21.24	21.24				
20	QPSK	100	0	20.30	20.33	20.29				



Band 43 Ant 2 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				4390	4390	4390			
Frequency (MHz)				3810	3650	3690			
20	QPSK	1	0	21.56	21.72	21.64	22.5	0	
20	QPSK	1	49	21.53	21.57	21.42			
20	QPSK	1	99	21.56	21.60	21.54			
20	QPSK	50	0	21.62	21.68	21.64	22	0.5	
20	QPSK	50	24	21.61	21.66	21.54			
20	QPSK	50	50	21.55	21.61	21.53			
20	QPSK	100	0	20.53	20.62	20.50			
20	16QAM	1	0	21.48	21.55	21.47	22	0.5	
20	16QAM	1	49	21.50	21.57	21.44			
20	16QAM	1	99	21.46	21.60	21.51			
20	16QAM	50	0	21.40	21.44	21.33			
20	16QAM	50	24	21.34	21.43	21.38			
20	16QAM	50	50	21.38	21.45	21.30	21.5	1	
20	16QAM	100	0	19.56	19.63	19.58			
20	64QAM	1	0	21.57	21.65	21.52	22	0.5	
20	64QAM	1	49	21.55	21.63	21.52			
20	64QAM	1	99	21.60	21.66	21.61			
20	64QAM	50	0	20.40	20.46	20.36			
20	64QAM	50	24	20.33	20.46	20.36	20.5	2	
20	64QAM	50	50	20.44	20.48	20.36			
20	64QAM	100	0	18.57	18.64	18.53			
20	256QAM	1	0	18.43	18.47	18.35	19	3.5	
20	256QAM	1	49	18.44	18.58	18.48			
20	256QAM	1	99	18.36	18.48	18.39			
20	256QAM	50	0	18.52	18.62	18.51			
20	256QAM	50	24	18.57	18.64	18.57	19	3.5	
20	256QAM	50	50	18.48	18.63	18.53			
20	256QAM	100	0	18.52	18.60	18.54			
Channel				44165	44215	44265			
Frequency (MHz)				3657.5	3662.5	3667.5			
15	QPSK	1	0	21.54	21.67	21.60	22.5	0	
15	QPSK	1	37	21.33	21.44	21.45			
15	QPSK	1	74	21.37	21.57	21.47			
15	QPSK	36	0	21.49	21.38	21.48	22	0.5	
15	QPSK	36	20	21.48	21.55	21.47			
15	QPSK	36	39	21.48	21.53	21.37			
15	QPSK	75	0	21.45	21.55	21.42			
15	16QAM	1	0	21.45	21.41	21.39	22	0.5	
15	16QAM	1	37	21.44	21.46	21.33			
15	16QAM	1	74	21.42	21.56	21.41			
15	16QAM	36	0	21.21	21.34	21.25	21.5	1	
15	16QAM	36	20	21.28	21.36	21.28			
15	16QAM	36	39	21.31	21.34	21.30			
15	16QAM	75	0	21.23	21.39	21.26			
15	64QAM	1	0	21.48	21.56	21.47	22	0.5	
15	64QAM	1	37	21.45	21.59	21.46			
15	64QAM	1	74	21.48	21.59	21.47			
15	64QAM	36	0	20.32	20.34	20.25	20.5	2	
15	64QAM	36	20	20.19	20.41	20.25			
15	64QAM	36	39	20.34	20.44	20.33			
15	64QAM	75	0	20.26	20.37	20.28			
15	256QAM	1	0	18.25	18.34	18.31	19	3.5	
15	256QAM	1	37	18.43	18.54	18.43			
15	256QAM	1	74	18.28	18.45	18.32			
15	256QAM	36	0	18.39	18.51	18.46	19	3.5	
15	256QAM	36	20	18.40	18.55	18.54			
15	256QAM	36	39	18.39	18.50	18.36			
15	256QAM	75	0	18.48	18.55	18.44			
Channel				44140	44215	44290			
Frequency (MHz)				3655	3662.5	3670			
10	QPSK	1	0	21.53	21.59	21.49	22.5	0	
10	QPSK	1	25	21.37	21.54	21.45			
10	QPSK	1	49	21.41	21.53	21.52			
10	QPSK	25	0	21.46	21.55	21.49	22	0.5	
10	QPSK	25	12	21.46	21.61	21.41			
10	QPSK	25	25	21.41	21.52	21.45			
10	QPSK	50	0	21.51	21.54	21.42			
10	16QAM	1	0	21.35	21.44	21.43	22	0.5	
10	16QAM	1	25	21.47	21.52	21.42			
10	16QAM	1	49	21.41	21.55	21.49			
10	16QAM	25	0	21.16	21.31	21.17	21.5	1	
10	16QAM	25	12	21.21	21.39	21.32			
10	16QAM	25	25	21.36	21.39	21.28			
10	16QAM	50	0	21.23	21.32	21.28			
10	64QAM	1	0	21.40	21.59	21.53	22	0.5	
10	64QAM	1	25	21.50	21.53	21.49			
10	64QAM	1	49	21.49	21.56	21.54			
10	64QAM	25	0	20.27	20.31	20.21	20.5	2	
10	64QAM	25	12	20.17	20.39	20.22			
10	64QAM	25	25	20.31	20.34	20.34			
10	64QAM	50	0	20.50	20.50	20.44			
10	256QAM	1	0	18.26	18.38	18.27	19	3.5	
10	256QAM	1	25	18.40	18.43	18.36			
10	256QAM	1	49	18.32	18.38	18.24			
10	256QAM	25	0	18.37	18.56	18.45	19	3.5	
10	256QAM	25	12	18.41	18.52	18.56			
10	256QAM	25	25	18.41	18.54	18.41			
10	256QAM	50	0	18.52	18.47	18.41			
Channel				44115	44215	44315			
Frequency (MHz)				3622.5	3626.5	3629.5			
5	QPSK	1	0	21.54	21.63	21.57	22.5	0	
5	QPSK	1	12	21.41	21.51	21.37			
5	QPSK	1	24	21.39	21.56	21.45			
5	QPSK	12	0	21.46	21.64	21.45	22	0.5	
5	QPSK	12	7	21.52	21.57	21.41			
5	QPSK	12	13	21.41	21.54	21.46			
5	QPSK	25	0	21.49	21.59	21.43			
5	16QAM	1	0	21.45	21.40	21.34	22	0.5	
5	16QAM	1	12	21.41	21.45	21.41			
5	16QAM	1	24	21.43	21.56	21.42			
5	16QAM	12	0	21.18	21.31	21.18	21.5	1	
5	16QAM	12	7	21.25	21.38	21.28			
5	16QAM	12	13	21.26	21.38	21.24			
5	16QAM	25	0	21.32	21.33	21.22			
5	64QAM	1	0	21.38	21.57	21.53	22	0.5	
5	64QAM	1	12	21.47	21.54	21.51			
5	64QAM	1	24	21.52	21.58	21.49			
5	64QAM	12	0	20.33	20.32	20.26	20.5	2	
5	64QAM	12	7	20.24	20.34	20.22			
5	64QAM	12	13	20.31	20.35	20.37			
5	64QAM	25	0	20.26	20.41	20.24			
5	256QAM	1	0	18.27	18.33	18.37	19	3.5	
5	256QAM	1	12	18.38	18.47	18.46			
5	256QAM	1	24	18.30	18.33	18.32			
5	256QAM	12	0	18.42	18.53	18.46			
5	256QAM	12	7	18.45	18.50	18.56	19	3.5	
5	256QAM	12	13	18.46	18.51	18.42			
5	256QAM	25	0	18.45	18.54	18.45			

Band 48 Ant 2 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				5530	5580	5615			
Frequency (MHz)				3560	3609	3641			
20	QPSK	1	0	21.83	21.85	21.64	22.5	0	
20	QPSK	1	49	21.66	21.69	21.62			
20	QPSK	1	99	21.63	21.73	21.69			
20	QPSK	50	0	21.65	21.75	21.69	22	0.5	
20	QPSK	50	24	21.61	21.73	21.63			
20	QPSK	50	50	21.68	21.71	21.68			
20	QPSK	100	0	20.70	20.74	20.69			
20	16QAM	1	0	21.54	21.63	21.54	22	0.5	
20	16QAM	1	49	21.57	21.68	21.62			
20	16QAM	1	99	21.49	21.60	21.55			
20	16QAM	50	0	21.32	21.46	21.38			
20	16QAM	50	24	21.33	21.47	21.35	21.5	1	
20	16QAM	50	50	21.37	21.39	21.36			
20	16QAM	100	0	19.69	19.76	19.63			
20</									



Reduced Power for DSI3 Simultaneous

GSM850 Ant 0 DSI3 Simultaneous									
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	126	169	251		126	169	251		
GSM 1 Tx slot	32.66	32.75	32.55	33.50	23.66	23.75	23.55	24.50	
GPRS 1 Tx slot	32.56	32.74	32.43	33.50	23.56	23.74	23.43	24.50	
GPRS 2 Tx slots	29.78	29.98	29.66	31.00	23.78	23.98	23.66	25.00	
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74	
GPRS 4 Tx slots	28.63	28.78	28.37	27.00	23.63	23.78	23.37	24.00	
EDGE 1 Tx slot	25.74	25.82	25.62	26.50	16.74	16.82	16.62	17.50	
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	16.06	16.16	15.93	16.00	
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	15.51	15.56	15.33	15.24	
EDGE 4 Tx slots	20.75	20.80	20.65	22.00	17.75	17.80	17.65	18.00	

GSM1900 Ant 0 DSI3 Simultaneous									
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		
GSM 1 Tx slot	28.00	28.04	27.91	28.70	19.00	19.04	18.91	19.70	
GPRS 1 Tx slot	28.03	28.07	27.92	28.70	19.03	19.07	18.92	19.70	
GPRS 2 Tx slots	24.57	24.76	24.75	25.70	18.57	18.76	18.75	19.70	
GPRS 3 Tx slots	22.74	23.06	22.68	23.90	18.48	18.80	18.42	19.64	
GPRS 4 Tx slots	21.45	21.88	21.61	22.70	18.45	18.68	18.61	19.70	
EDGE 1 Tx slot	24.51	24.50	24.49	25.50	15.51	15.50	15.49	16.50	
EDGE 2 Tx slots	22.91	22.85	22.74	24.00	16.91	16.85	16.74	18.00	
EDGE 3 Tx slots	21.52	21.58	21.67	23.00	17.28	17.70	17.41	18.74	
EDGE 4 Tx slots	19.44	19.68	19.39	20.50	16.44	16.68	16.39	17.50	

Band Tx Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9632	9400	9638		1312	1413	1513		4132	4182	4233	
3GPP Rel 99 RMC 12.2Kbps	16.48	16.55	16.29	18.10	16.21	16.55	16.66	17.80	23.07	23.16	23.02	24.00
3GPP Rel 99 RMC 12.2Kbps	16.56	16.62	16.42	18.10	16.76	17.06	16.98	17.80	23.26	23.32	23.14	24.00
3GPP Rel 6 HSDPA Subtest-1	15.49	15.99	15.56	17.10	16.00	16.12	16.06	16.80	22.24	22.30	22.25	23.00
3GPP Rel 6 HSDPA Subtest-2	15.52	15.52	15.57	17.10	16.08	16.00	16.02	16.80	22.11	22.22	22.23	23.00
3GPP Rel 6 HSDPA Subtest-3	15.12	14.96	15.09	16.60	15.41	15.46	15.54	16.30	21.74	21.83	21.54	22.50
3GPP Rel 6 HSDPA Subtest-4	14.89	14.93	15.17	16.60	15.39	15.59	15.67	16.30	21.72	21.78	21.75	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	15.50	15.58	15.76	17.10	15.92	15.99	16.16	16.80	22.23	22.42	22.20	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	15.55	15.44	15.59	17.10	16.01	16.05	16.01	16.80	22.45	22.34	22.32	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	15.10	15.05	15.15	16.60	15.55	15.49	15.75	16.30	21.77	21.91	21.83	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	15.05	14.94	15.01	16.60	15.39	15.46	15.58	16.30	21.88	21.87	21.53	22.50
3GPP Rel 6 HSUPA Subtest-1	15.55	15.53	15.55	17.10	16.00	15.99	16.01	16.80	22.37	22.33	22.16	23.00
3GPP Rel 6 HSUPA Subtest-2	13.55	13.46	13.81	15.10	14.03	13.94	14.10	14.80	20.33	20.43	20.13	21.00
3GPP Rel 6 HSUPA Subtest-3	14.43	14.46	14.50	16.10	15.00	15.02	15.13	15.80	21.09	21.30	21.30	22.00
3GPP Rel 6 HSUPA Subtest-4	13.50	13.47	13.59	15.10	14.05	14.00	14.15	14.80	20.02	20.16	20.04	21.00
3GPP Rel 6 HSUPA Subtest-5	15.53	15.51	15.56	17.10	16.03	15.98	16.17	16.80	21.91	22.18	22.13	23.00



Band 2 Ant 0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
20	QPSK	1	0	18.10	18.10	18.09		
20	QPSK	1	49	18.02	18.07	17.98	19.5	0
20	QPSK	1	99	18.03	18.18	18.02		
20	QPSK	50	0	18.03	18.13	18.02		
20	QPSK	50	24	17.99	18.10	17.98	19.5	0
20	QPSK	50	50	17.89	18.03	17.92		
20	QPSK	100	0	18.04	18.13	18.02		
20	QPSK	100	24	17.97	18.09	17.92	19.5	0
20	QPSK	150	0	18.04	18.13	18.02		
20	QPSK	150	49	18.03	18.13	18.10	19.5	0
20	16QAM	1	99	18.04	18.13	17.98		
20	16QAM	50	24	18.04	18.13	18.08	19.5	0
20	16QAM	50	50	18.03	18.13	17.94		
20	16QAM	100	0	17.98	18.13	17.98		
20	16QAM	100	24	17.98	18.13	17.98	19.5	0
20	16QAM	150	0	18.01	18.13	18.06		
20	16QAM	150	49	17.98	18.08	17.94	19.5	0
20	256QAM	1	99	18.04	18.13	18.10		
20	256QAM	50	24	18.06	18.13	18.04	19.5	0
20	256QAM	50	50	18.03	18.08	17.97		
20	256QAM	100	0	17.98	18.10	18.02		
20	256QAM	150	0	18.03	18.08	18.06		

Band 4 Ant 0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
20	QPSK	1	0	15.97	15.94	15.95		
20	QPSK	1	49	15.98	15.99	15.91	17.3	0
20	QPSK	1	99	15.96	15.92	15.89		
20	QPSK	50	0	15.92	15.91	15.97		
20	QPSK	50	24	15.93	15.94	15.94	17.3	0
20	QPSK	50	50	15.84	15.91	15.82		
20	QPSK	100	0	15.81	15.93	15.81		
20	QPSK	100	24	15.86	15.92	15.81	17.3	0
20	QPSK	150	0	15.82	15.94	15.86		
20	QPSK	150	49	15.82	15.94	15.86	17.3	0
20	16QAM	1	99	15.96	15.91	15.92		
20	16QAM	50	24	15.92	15.91	15.96	17.3	0
20	16QAM	50	50	15.94	15.99	15.92		
20	16QAM	100	0	15.92	15.93	15.79		
20	16QAM	100	24	15.97	15.91	15.93	17.3	0
20	16QAM	150	0	15.99	15.99	15.95		
20	16QAM	150	49	15.92	15.96	15.92	17.3	0
20	16QAM	50	24	15.99	15.99	15.92		
20	16QAM	50	50	15.98	15.93	15.78	17.3	0
20	16QAM	100	0	15.89	15.95	15.84		
20	16QAM	100	24	15.92	15.93	15.79	17.3	0
20	16QAM	150	0	15.98	15.97	15.89		
20	16QAM	150	49	15.86	15.92	15.82	17.3	0
20	256QAM	1	99	15.93	15.96	15.84		
20	256QAM	50	24	15.98	15.93	15.82	17.3	0
20	256QAM	50	50	15.85	15.99	15.86		
20	256QAM	100	0	15.88	15.92	15.86	17.3	0
20	256QAM	150	0	15.93	15.92	15.89		

Band 5 Ant 0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
10	QPSK	1	0	22.59	22.56	22.54		
10	QPSK	1	25	22.61	22.57	22.63	23.5	0
10	QPSK	1	49	22.42	22.54	22.41		
10	QPSK	25	0	22.54	22.54	22.55		
10	QPSK	25	12	22.52	22.54	22.52	23.5	0
10	QPSK	25	25	22.48	22.53	22.47		
10	QPSK	50	0	22.57	22.53	22.53		
10	QPSK	50	12	22.52	22.54	22.51	23.5	0
10	16QAM	1	25	22.52	22.46	22.40	23.5	0
10	16QAM	1	49	22.39	22.42	22.35		
10	16QAM	25	12	21.98	22.00	21.92	23	0
10	16QAM	25	25	21.91	21.93	21.93		
10	16QAM	50	0	22.11	22.18	22.13		
10	16QAM	50	12	22.11	22.18	22.13	23	0
10	16QAM	100	0	22.14	22.24	22.18		
10	16QAM	100	25	22.12	22.29	22.20	23	0
10	16QAM	150	0	22.24	22.29	22.29		
10	16QAM	150	25	21.93	21.16	21.91	23	0
10	16QAM	50	12	20.88	21.00	20.94	22	1.5
10	16QAM	50	25	20.88	20.88	20.88		
10	16QAM	100	0	20.97	21.00	20.96		
10	16QAM	100	25	20.97	21.00	20.96	22	1.5
10	256QAM	1	25	19.10	19.17	19.03	20	3.5
10	256QAM	1	49	19.08	19.07	19.02		
10	256QAM	25	12	22.84	22.81	22.82	23	0
10	256QAM	25	25	22.89	22.83	22.87		
10	256QAM	50	0	18.89	18.89	18.88	20	3.5
10	256QAM	150	0	20.65	20.62	20.62		

Band 7 Ant 0 DS13 Simultaneous

BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (dB)	MPR (dB)
Channel				Ch. 1/Freq.	Ch. 2/Freq.	Ch. 3/Freq.		
20	QPSK	1	0	20.98	20.93	20.98		
20	QPSK	1	49	20.93	20.92	20.91	21.7	0
20	QPSK	1	99	20.97	20.91	20.98		
20	QPSK	50	0	20.93	20.93	20.95		
20	QPSK	50	24	20.93	20.94	20.93	21.7	0
20	QPSK	50	50	20.98	20.99	20.94		
20	QPSK	100	0	20.17	20.24	20.19		
20	QPSK	100	24	20.15	20.28	20.23	21.7	0
20	QPSK	150	0	20.19	20.27	20.18		
20	QPSK	150	49	20.18	20.27	20.18	21.7	0
20	16QAM	1	99	20.15	20.26	20.19		
20	16QAM	50	24	20.14	20.22	20.16	21.7	0
20	16QAM	50	50	20.14	20.22	20.16		
20	16QAM	100	0	20.11	20.22	20.23		
20	16QAM	100	24	20.10	20.22	20.17	21.7	0
20	16QAM	150	0	20.13	20.22	20.17		
20	16QAM	150	49	20.01	20.29	20.21	21.7	0
20	16QAM	50	24	20.16	20.26	20.18		
20	16QAM	50	50	20.16	20.26	20.18	21.7	0
20	16QAM	100	0	20.17	20.22	20.21		
20	16QAM	100	24	20.16	20.26	20.18	21.7	0
20	16QAM	150	0	20.15	20.25	20.19		
20	16QAM	150	49	20.06	20.27	20.21	21.7	0
20	256QAM	1	99	18.69	18.76	18.70		
20	256QAM	50	24	18.64	18.76	18.67	20	1.7
20	256QAM	50	50	18.77	18.83	18.79		
20	256QAM	100	0	18.65	18.79	18.73	20	1.7
20	256QAM	150	0	20.69	20.64	20.64		

Frequency (MHz)	Channel	Power (W)	Turn-up (dB)	MPR (dB)
18.02	18.10	17.98		
18.03	18.18	18.02	19.5	0
18.03	18.13	18.02		
17.99	18.10	17.98	19.5	0
17.89	18.03	17.92		
18.04	18.13	18.02		
17.97	18.09	17.92	19.5	0
18.04	18.13	18.02		
18.03	18.13	18.10	19.5	0
18.04	18.13	17.98		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.08	19.5	0
18.03	18.13	17.94		
17.98	18.10	18.02		
18.03	18.08	17.94	19.5	0
18.04	18.13	17.98		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.06	19.5	0
18.03	18.13	17.97		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.06	19.5	0
18.03	18.13	17.97		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.06	19.5	0
18.03	18.13	17.98		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.06	19.5	0
18.03	18.13	17.98		
18.03	18.13	17.98	19.5	0
18.03	18.13	17.98		
18.04	18.13	18.06	19.5	0
18.03	18.13	17.98		
18.03	18.13	17.98	19.5	0



Band 12 Ant 0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)	104	707.5	711							
10	QPSK	1	0	22.87	22.82	22.79				
10	QPSK	1	25	22.87	22.82	22.79			24	0
10	QPSK	1	49	22.73	22.62	22.76				
10	QPSK	25	0	22.84	22.80	22.73				
10	QPSK	25	25	22.84	22.80	22.73			24	0
10	QPSK	25	50	22.62	22.73	22.68				
10	QPSK	50	0	22.86	22.86	22.82				
10	QPSK	50	25	22.86	22.86	22.82			24	0
10	16QAM	1	25	22.98	22.98	22.99				
10	16QAM	1	49	22.99	22.60	22.98				
10	16QAM	25	0	22.98	22.98	22.99				
10	16QAM	25	25	22.99	22.98	22.99			23.5	0.5
10	16QAM	25	50	22.99	22.82	22.99				
10	16QAM	50	0	22.98	22.84	22.99				
10	16QAM	50	25	22.40	22.99	22.43				
10	8QAM	1	25	22.96	22.85	22.96			23.5	0.5
10	8QAM	1	49	22.99	22.99	22.90				
10	8QAM	25	0	21.33	21.46	21.38				
10	8QAM	25	25	21.28	21.28	21.24			22.5	1.5
10	8QAM	25	50	21.28	21.51	21.22				
10	8QAM	50	0	21.38	21.41	21.38				
10	256QAM	1	0	19.48	19.41	19.52				
10	256QAM	1	25	19.46	19.45	19.46			20.5	3.5
10	256QAM	1	49	19.41	19.45	19.35				
10	256QAM	1	75	19.38	19.38	19.35				
10	256QAM	25	12	19.31	19.34	19.27			20.5	3.5
10	256QAM	25	37	19.19	19.25	19.24				
10	256QAM	25	62	19.25	19.25	19.16				
10	256QAM	50	0	19.25	19.25	19.16				
10	256QAM	50	25	19.25	19.25	19.16				
10	256QAM	50	50	19.25	19.25	19.16				
10	256QAM	50	75	19.25	19.25	19.16				
10	256QAM	50	100	19.25	19.25	19.16				
10	256QAM	50	125	19.25	19.25	19.16				
10	256QAM	50	150	19.25	19.25	19.16				
10	256QAM	50	175	19.25	19.25	19.16				
10	256QAM	50	200	19.25	19.25	19.16				
10	256QAM	50	225	19.25	19.25	19.16				
10	256QAM	50	250	19.25	19.25	19.16				
10	256QAM	50	275	19.25	19.25	19.16				
10	256QAM	50	300	19.25	19.25	19.16				
10	256QAM	50	325	19.25	19.25	19.16				
10	256QAM	50	350	19.25	19.25	19.16				
10	256QAM	50	375	19.25	19.25	19.16				
10	256QAM	50	400	19.25	19.25	19.16				
10	256QAM	50	425	19.25	19.25	19.16				
10	256QAM	50	450	19.25	19.25	19.16				
10	256QAM	50	475	19.25	19.25	19.16				
10	256QAM	50	500	19.25	19.25	19.16				
10	256QAM	50	525	19.25	19.25	19.16				
10	256QAM	50	550	19.25	19.25	19.16				
10	256QAM	50	575	19.25	19.25	19.16				
10	256QAM	50	600	19.25	19.25	19.16				
10	256QAM	50	625	19.25	19.25	19.16				
10	256QAM	50	650	19.25	19.25	19.16				
10	256QAM	50	675	19.25	19.25	19.16				
10	256QAM	50	700	19.25	19.25	19.16				
10	256QAM	50	725	19.25	19.25	19.16				
10	256QAM	50	750	19.25	19.25	19.16				
10	256QAM	50	775	19.25	19.25	19.16				
10	256QAM	50	800	19.25	19.25	19.16				
10	256QAM	50	825	19.25	19.25	19.16				
10	256QAM	50	850	19.25	19.25	19.16				
10	256QAM	50	875	19.25	19.25	19.16				
10	256QAM	50	900	19.25	19.25	19.16				
10	256QAM	50	925	19.25	19.25	19.16				
10	256QAM	50	950	19.25	19.25	19.16				
10	256QAM	50	975	19.25	19.25	19.16				
10	256QAM	50	1000	19.25	19.25	19.16				
10	256QAM	50	1025	19.25	19.25	19.16				
10	256QAM	50	1050	19.25	19.25	19.16				
10	256QAM	50	1075	19.25	19.25	19.16				
10	256QAM	50	1100	19.25	19.25	19.16				
10	256QAM	50	1125	19.25	19.25	19.16				
10	256QAM	50	1150	19.25	19.25	19.16				
10	256QAM	50	1175	19.25	19.25	19.16				
10	256QAM	50	1200	19.25	19.25	19.16				
10	256QAM	50	1225	19.25	19.25	19.16				
10	256QAM	50	1250	19.25	19.25	19.16				
10	256QAM	50	1275	19.25	19.25	19.16				
10	256QAM	50	1300	19.25	19.25	19.16				
10	256QAM	50	1325	19.25	19.25	19.16				
10	256QAM	50	1350	19.25	19.25	19.16				
10	256QAM	50	1375	19.25	19.25	19.16				
10	256QAM	50	1400	19.25	19.25	19.16				
10	256QAM	50	1425	19.25	19.25	19.16				
10	256QAM	50	1450	19.25	19.25	19.16				
10	256QAM	50	1475	19.25	19.25	19.16				
10	256QAM	50	1500	19.25	19.25	19.16				
10	256QAM	50	1525	19.25	19.25	19.16				
10	256QAM	50	1550	19.25	19.25	19.16				
10	256QAM	50	1575	19.25	19.25	19.16				
10	256QAM	50	1600	19.25	19.25	19.16				
10	256QAM	50	1625	19.25	19.25	19.16				
10	256QAM	50	1650	19.25	19.25	19.16				
10	256QAM	50	1675	19.25	19.25	19.16				
10	256QAM	50	1700	19.25	19.25	19.16				
10	256QAM	50	1725	19.25	19.25	19.16				
10	256QAM	50	1750	19.25	19.25	19.16				
10	256QAM	50	1775	19.25	19.25	19.16				
10	256QAM	50	1800	19.25	19.25	19.16				
10	256QAM	50	1825	19.25	19.25	19.16				
10	256QAM	50	1850	19.25	19.25	19.16				
10	256QAM	50	1875	19.25	19.25	19.16				
10	256QAM	50	1900	19.25	19.25	19.16				
10	256QAM	50	1925	19.25	19.25	19.16				
10	256QAM	50	1950	19.25	19.25	19.16				
10	256QAM	50	1975	19.25	19.25	19.16				
10	256QAM	50	2000	19.25	19.25	19.16				
10	256QAM	50	2025	19.25	19.25	19.16				
10	256QAM	50	2050	19.25	19.25	19.16				
10	256QAM	50	2075	19.25	19.25	19.16				
10	256QAM	50	2100	19.25	19.25	19.16				
10	256QAM	50	2125	19.25	19.25	19.16				
10	256QAM	50	2150	19.25	19.25	19.16				
10	256QAM	50	2175	19.25	19.25	19.16				
10	256QAM	50	2200	19.25	19.25	19.16				
10	256QAM	50	2225	19.25	19.25	19.16				
10	256QAM	50	2250	19.25	19.25	19.16				
10	256QAM	50	2275	19.25	19.25	19.16				
10	256QAM	50	2300	19.25	19.25	19.16				
10	256QAM	50	2325	19.25	19.25	19.16				
10	256QAM	50	2350	19.25	19.25	19.16				
10	256QAM	50	2375	19.25	19.25	19.16				
10	256QAM	50	2400	19.25	19.25	19.16				
10	256QAM	50	2425	19.25	19.25	19.16				
10	256QAM	50	2450	19.25	19.25	19.16				
10	256QAM	50	2475	19.25	19.25	19.16				
10	256QAM	50	2500	19.25	19.25	19.16				
10	256QAM	50	2525	19.25	19.25	19.16				
10	256QAM	50	2550	19.25	19.25	19.16				
10	256QAM	50	2575	19.25	19.25	19.16				
10	256QAM	50	2600	19.25	19.25	19.16				
10	256QAM	50	2625	19.25	19.25	19.16				
10	256QAM	50	2650	19.25	19.25	19.16				
10	256QAM	50	2675	19.25	19.25	19.16				
10	256QAM	50	2700	19.25	19.25	19.16				
10	256QAM	50	2725	19.25	19.25	19.16				
10	256QAM	50	2750	19.25	19.25	19.16				
10	256QAM	50	2775	19.25	19.25	19.16				
10	256QAM	50	2800	19.25	19.25	19.16				
10	256QAM	50	2825	19.25	19.25	19.16				
10	256QAM	50	2850	19.25	19.25	19.16				
10	256QAM	50	2875	19.25	19.25	19.16				
10	256QAM	50	2900	19.25	19.25	19.16				



Band 26 Ant 0 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up (dB)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.29	22.34	22.48	23.5	0		
15	QPSK	37	0	22.42	22.52	22.62				
15	QPSK	1	74	22.38	22.30	22.38				
15	QPSK	36	0	22.49	22.54	22.59				
15	QPSK	36	20	22.25	22.43	22.46				
15	QPSK	36	36	22.41	22.47	22.39				
15	QPSK	75	0	22.26	22.40	22.32				
15	HQDM	1	0	22.41	22.35	22.43				
15	HQDM	1	37	22.42	22.46	22.41	23.5	0		
15	HQDM	1	74	22.37	22.38	22.28				
15	HQDM	36	0	21.94	22.03	21.99				
15	HQDM	36	20	21.87	21.87	21.87	23	0.5		
15	HQDM	36	36	21.79	21.86	21.81				
15	HQDM	75	0	21.84	21.94	21.88				
15	HQDM	1	0	21.95	22.04	21.95				
15	HQDM	1	37	21.90	21.96	21.83	23	0.5		
15	HQDM	1	74	21.79	21.85	21.78				
15	HQDM	36	0	20.89	20.97	20.85				
15	HQDM	36	20	20.86	20.89	20.81	22	1.5		
15	HQDM	36	36	20.75	20.81	20.78				
15	HQDM	75	0	20.83	20.99	20.90				
15	ZSFGDM	1	0	18.65	18.67	18.69				
15	ZSFGDM	1	37	18.94	18.90	18.93	20	3.5		
15	ZSFGDM	1	74	18.82	18.86	18.80				
15	ZSFGDM	36	0	18.82	18.84	18.82				
15	ZSFGDM	36	20	18.82	18.82	18.78	20	3.5		
15	ZSFGDM	36	36	18.83	18.74	18.68				
15	ZSFGDM	75	0	18.82	18.78	18.79				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.63	22.67	22.69	23.5	0		
10	QPSK	1	49	22.64	22.69	22.62				
10	QPSK	25	0	22.28	22.43	22.39				
10	QPSK	25	12	22.29	22.31	22.29	23.5	0		
10	QPSK	25	25	22.34	22.40	22.38				
10	QPSK	50	0	22.10	22.26	22.29				
10	HQDM	1	0	22.37	22.44	22.30				
10	HQDM	1	25	22.31	22.33	22.27	23.5	0		
10	HQDM	1	49	22.27	22.27	22.21				
10	HQDM	25	0	21.84	21.89	21.84				
10	HQDM	25	12	21.78	21.77	21.82	23	0.5		
10	HQDM	25	25	21.84	21.77	21.78				
10	HQDM	50	0	21.79	21.86	21.77				
10	HQDM	1	0	21.88	21.94	21.84				
10	HQDM	1	25	21.83	21.83	21.79	23	0.5		
10	HQDM	1	49	21.75	21.74	21.85				
10	HQDM	25	0	20.82	20.90	20.80				
10	HQDM	25	12	20.78	20.77	20.86				
10	HQDM	25	25	20.82	20.75	20.72	22	1.5		
10	HQDM	50	0	20.89	20.94	20.83				
10	ZSFGDM	1	0	18.65	18.66	18.66				
10	ZSFGDM	1	25	18.83	18.76	18.78	20	3.5		
10	ZSFGDM	1	49	18.74	18.77	18.76				
10	ZSFGDM	25	0	18.74	18.74	18.74				
10	ZSFGDM	25	12	18.75	18.75	18.81	20	3.5		
10	ZSFGDM	25	25	18.74	18.65	18.64				
10	ZSFGDM	50	0	18.65	18.78	18.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.64	22.68	22.69	23.5	0		
5	QPSK	1	12	22.38	22.45	22.37				
5	QPSK	1	24	22.25	22.39	22.30				
5	QPSK	1	49	22.41	22.46	22.39				
5	QPSK	12	0	22.24	22.38	22.27	23.5	0		
5	QPSK	12	13	22.31	22.41	22.25				
5	QPSK	25	0	22.26	22.36	22.29				
5	HQDM	1	0	22.28	22.52	22.30				
5	HQDM	1	12	22.38	22.36	22.32	23.5	0		
5	HQDM	1	24	22.26	22.35	22.21				
5	HQDM	12	0	21.88	21.95	21.79				
5	HQDM	12	7	21.73	21.73	21.82	23	0.5		
5	HQDM	12	13	21.84	21.77	21.86				
5	HQDM	25	0	21.71	21.89	21.78				
5	HQDM	1	0	21.81	21.96	21.86				
5	HQDM	1	12	21.84	21.77	21.84	23	0.5		
5	HQDM	1	24	21.85	21.72	21.75				
5	HQDM	12	0	20.83	20.86	20.71				
5	HQDM	12	7	20.82	20.88	20.79				
5	HQDM	12	13	20.83	20.68	20.67	22	1.5		
5	HQDM	25	0	20.84	20.86	20.78				
5	ZSFGDM	1	0	18.65	18.68	18.67				
5	ZSFGDM	1	12	18.89	18.80	18.81	20	3.5		
5	ZSFGDM	1	24	18.73	18.82	18.71				
5	ZSFGDM	12	0	18.83	18.85	18.83				
5	ZSFGDM	12	7	18.74	18.73	18.79	20	3.5		
5	ZSFGDM	12	13	18.74	18.66	18.64				
5	ZSFGDM	25	0	18.65	18.78	18.68				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.65	22.63	22.63	23.5	0		
3	QPSK	1	8	22.39	22.37	22.31				
3	QPSK	1	14	22.29	22.41	22.25				
3	QPSK	1	49	22.42	22.48	22.46				
3	QPSK	8	4	22.30	22.31	22.20	23.5	0		
3	QPSK	8	7	22.32	22.34	22.28				
3	QPSK	15	0	22.12	22.37	22.29				
3	HQDM	1	0	22.38	22.44	22.34	23.5	0		
3	HQDM	1	8	22.30	22.40	22.27				
3	HQDM	1	14	22.31	22.38	22.24				
3	HQDM	8	0	21.82	21.86	21.79				
3	HQDM	8	4	21.84	21.78	21.78	23	0.5		
3	HQDM	8	7	21.71	21.76	21.78				
3	HQDM	15	0	21.74	21.82	21.85				
3	HQDM	1	0	21.80	22.00	21.87				
3	HQDM	1	8	21.78	21.81	21.68	23	0.5		
3	HQDM	1	14	21.85	21.70	21.68				
3	HQDM	8	0	20.78	20.93	20.78				
3	HQDM	8	7	20.69	20.68	20.70	22	1.5		
3	HQDM	8	14	20.84	20.88	20.65				
3	HQDM	15	0	20.83	20.94	20.81				
3	ZSFGDM	1	0	18.84	18.92	18.84				
3	ZSFGDM	1	8	18.83	18.85	18.80	20	3.5		
3	ZSFGDM	1	14	18.74	18.92	18.71				
3	ZSFGDM	8	0	18.84	18.90	18.81				
3	ZSFGDM	8	4	18.77	18.68	18.64	20	3.5		
3	ZSFGDM	8	7	18.76	18.66	18.62				
3	ZSFGDM	15	0	18.70	18.79	18.74				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.63	22.52	22.35	23.5	0		
1.4	QPSK	1	3	22.33	22.47	22.29				
1.4	QPSK	1	5	22.24	22.46	22.35				
1.4	QPSK	1	49	22.42	22.47	22.42				
1.4	QPSK	3	1	22.30	22.33	22.28				
1.4	QPSK	3	3	22.28	22.30	22.26	23.5	0		
1.4	QPSK	3	5	22.18	22.32	22.29				
1.4	HQDM	1	0	22.29	22.45	22.33				
1.4	HQDM	1	3	22.28	22.38	22.29	23.5	0		
1.4	HQDM	1	5	22.31	22.29	22.25				
1.4	HQDM	3	0	22.32	22.50	22.27				
1.4	HQDM	3	1	22.24	22.25	22.28				
1.4	HQDM	3	3	22.16	22.31	22.28				
1.4	HQDM	6	0	21.80	21.85	21.84	23	0.5		
1.4	HQDM	1	0	21.82	22.00	21.86				
1.4	HQDM	1	3	21.82	21.74	21.78				
1.4	HQDM	1	5	21.72	21.76	21.75	23	0.5		
1.4	HQDM	3	0	21.74	21.81	21.74				



Band 38 PC3 Ant 0 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	22.47	22.61	22.53	24	0		
20	QPSK	1	49	22.43	22.57	22.50				
20	QPSK	1	99	22.40	22.54	22.47				
20	QPSK	50	0	22.45	22.59	22.54				
20	QPSK	50	24	22.36	22.49	22.41	24	0		
20	QPSK	50	50	22.41	22.52	22.42				
20	QPSK	100	0	22.42	22.50	22.42				
20	16QAM	1	0	22.54	22.59	22.45				
20	16QAM	1	49	22.45	22.58	22.44	24	0		
20	16QAM	1	99	22.52	22.56	22.47				
20	16QAM	50	0	22.47	22.57	22.53				
20	16QAM	50	24	22.40	22.49	22.42	24	0		
20	16QAM	50	50	22.51	22.56	22.53				
20	16QAM	100	0	22.36	22.50	22.47				
20	64QAM	1	0	22.42	22.50	22.46				
20	64QAM	1	49	22.39	22.50	22.38	24	0		
20	64QAM	1	99	22.37	22.50	22.35				
20	64QAM	50	0	22.50	22.59	22.45				
20	64QAM	50	24	22.52	22.58	22.49	24	0		
20	64QAM	50	50	22.34	22.48	22.39				
20	64QAM	100	0	22.40	22.50	22.42				
20	256QAM	1	0	20.97	21.01	20.94				
20	256QAM	1	49	20.99	21.04	20.93	22	2		
20	256QAM	1	99	20.85	20.95	20.90				
20	256QAM	50	0	20.87	20.97	20.86				
20	256QAM	50	24	20.91	21.01	20.86	22	2		
20	256QAM	50	50	20.99	21.03	20.99				
20	256QAM	100	0	20.87	20.94	20.85				
Channel				37825	38000	38175				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	22.41	22.49	22.39	24	0		
15	QPSK	1	37	22.29	22.51	22.47				
15	QPSK	1	74	22.29	22.44	22.43				
15	QPSK	36	0	22.33	22.48	22.40	24	0		
15	QPSK	36	20	22.24	22.46	22.30				
15	QPSK	36	39	22.34	22.42	22.28	24	0		
15	QPSK	75	0	22.33	22.43	22.39				
15	16QAM	1	0	22.49	22.55	22.36				
15	16QAM	1	37	22.40	22.50	22.40	24	0		
15	16QAM	1	74	22.39	22.47	22.32				
15	16QAM	36	0	22.41	22.51	22.49	24	0		
15	16QAM	36	20	22.33	22.41	22.25				
15	16QAM	36	39	22.43	22.44	22.45	24	0		
15	16QAM	75	0	22.29	22.45	22.33				
15	64QAM	1	0	22.32	22.36	22.38				
15	64QAM	1	37	22.33	22.37	22.26	24	0		
15	64QAM	1	74	22.23	22.44	22.24				
15	64QAM	36	0	22.37	22.47	22.30	24	0		
15	64QAM	36	20	22.41	22.25	22.25				
15	64QAM	36	39	22.43	22.44	22.45	24	0		
15	64QAM	75	0	22.29	22.45	22.33				
15	256QAM	1	0	20.89	20.92	20.90				
15	256QAM	1	37	20.91	21.00	20.83	22	2		
15	256QAM	1	74	20.77	20.87	20.76				
15	256QAM	36	0	20.74	20.86	20.76	22	2		
15	256QAM	36	20	20.81	20.91	20.82				
15	256QAM	36	39	20.93	20.98	20.93	22	2		
15	256QAM	75	0	20.77	20.80	20.75				
Channel				37800	38000	38200				
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	22.38	22.59	22.42	24	0		
10	QPSK	1	25	22.28	22.47	22.36				
10	QPSK	1	49	22.36	22.42	22.42				
10	QPSK	25	0	22.41	22.50	22.49				
10	QPSK	25	12	22.32	22.41	22.30	24	0		
10	QPSK	25	25	22.31	22.42	22.34				
10	QPSK	50	0	22.35	22.43	22.34				
10	16QAM	1	0	22.40	22.49	22.30	24	0		
10	16QAM	1	25	22.31	22.45	22.41				
10	16QAM	1	49	22.48	22.43	22.34				
10	16QAM	25	0	22.34	22.50	22.50				
10	16QAM	25	12	22.34	22.44	22.38	24	0		
10	16QAM	25	25	22.48	22.44	22.40				
10	16QAM	50	0	22.30	22.41	22.33				
10	64QAM	1	0	22.31	22.39	22.38				
10	64QAM	1	25	22.26	22.38	22.25	24	0		
10	64QAM	1	49	22.24	22.45	22.26				
10	64QAM	25	0	22.42	22.54	22.31				
10	64QAM	25	12	22.40	22.43	22.36	24	0		
10	64QAM	25	25	22.25	22.41	22.25				
10	64QAM	50	0	22.35	22.39	22.38				
10	256QAM	1	0	20.91	20.94	20.90				
10	256QAM	1	25	20.96	20.98	20.82	22	2		
10	256QAM	1	49	20.82	20.82	20.80				
10	256QAM	25	0	20.79	20.86	20.75				
10	256QAM	25	12	20.83	20.95	20.76	22	2		
10	256QAM	25	25	20.89	20.95	20.92				
10	256QAM	50	0	20.73	20.88	20.71				
Channel				37775	38000	38225				
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	22.36	22.53	22.43	24	0		
5	QPSK	1	12	22.32	22.43	22.41				
5	QPSK	1	24	22.31	22.46	22.40				
5	QPSK	12	0	22.36	22.46	22.43				
5	QPSK	12	7	22.28	22.39	22.30	24	0		
5	QPSK	12	13	22.37	22.45	22.33				
5	QPSK	25	0	22.31	22.39	22.39				
5	16QAM	1	0	22.50	22.48	22.32				
5	16QAM	1	12	22.34	22.45	22.35	24	0		
5	16QAM	1	24	22.46	22.46	22.35				
5	16QAM	12	0	22.40	22.54	22.47				
5	16QAM	12	7	22.36	22.41	22.29	24	0		
5	16QAM	12	13	22.41	22.46	22.49				
5	16QAM	25	0	22.33	22.36	22.39				
5	64QAM	1	0	22.30	22.37	22.40				
5	64QAM	1	12	22.34	22.35	22.32	24	0		
5	64QAM	1	24	22.33	22.44	22.24				
5	64QAM	12	0	22.38	22.53	22.40				
5	64QAM	12	7	22.37	22.54	22.36	24	0		
5	64QAM	12	13	22.29	22.39	22.32				
5	64QAM	25	0	22.31	22.46	22.29				
5	256QAM	1	0	20.90	20.92	20.82				
5	256QAM	1	12	20.96	20.91	20.84	22	2		
5	256QAM	1	24	20.78	20.91	20.78				
5	256QAM	12	0	20.79	20.91	20.78				
5	256QAM	12	7	20.83	20.93	20.72	22	2		
5	256QAM	12	13	20.95	20.98	20.84				
5	256QAM	25	0	20.77	20.81	20.75				

Band 38 PC2 Ant 0 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	25.07	25.28	24.94	26.1	0		
20	QPSK	1	49	25.04	25.23	24.89				
20	QPSK	1	99	25.15	25.09	25.05				
20	QPSK	50	0	24.95	25.22	24.94				
20	QPSK	50	24	25.14	25.07	25.03	26.1	0		
20	QPSK	50	50	24.92	25.09	24.91				
20	QPSK	100	0	25.00	25.12	24.79				
20	16QAM	1	0	25.19	25.23	24.85				
20	16QAM	1	49	25.09	25.23	24.97	26.1	0		
20	16QAM	1	99	25.06	25.19	25.07				



Band 41 PC3 Ant 0 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				39780	40185	40620	41055	41490				
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	22.56	22.52	22.64	22.48	22.32	24	0		
20	QPSK	1	49	22.37	22.37	22.51	22.32	22.24				
20	QPSK	1	99	22.46	22.56	22.59	22.40	22.30				
20	QPSK	50	0	22.49	22.52	22.57	22.39	22.30				
20	QPSK	50	24	22.49	22.45	22.53	22.31	22.20				
20	QPSK	50	90	22.45	22.42	22.56	22.42	22.28	24	0		
20	QPSK	100	0	22.40	22.38	22.53	22.39	22.18				
20	16QAM	1	0	22.52	22.49	22.60	22.38	22.21				
20	16QAM	1	49	22.40	22.49	22.54	22.38	22.29				
20	16QAM	1	99	22.46	22.45	22.56	22.40	22.28				
20	16QAM	50	0	22.43	22.46	22.57	22.44	22.30	24	0		
20	16QAM	50	24	22.50	22.55	22.58	22.44	22.28				
20	16QAM	50	90	22.45	22.46	22.59	22.39	22.32				
20	16QAM	100	0	22.51	22.56	22.60	22.46	22.29				
20	64QAM	1	0	22.55	22.43	22.58	22.44	22.30				
20	64QAM	1	49	22.51	22.48	22.58	22.35	22.28	24	0		
20	64QAM	1	99	22.48	22.41	22.52	22.27	22.21				
20	64QAM	50	0	22.45	22.41	22.54	22.37	22.29				
20	64QAM	50	24	22.43	22.51	22.58	22.33	22.32				
20	64QAM	50	90	22.51	22.39	22.54	22.29	22.24				
20	64QAM	100	0	22.46	22.44	22.54	22.40	22.27	24	0		
20	256QAM	1	0	20.92	20.85	20.95	20.73	20.68				
20	256QAM	1	49	20.93	20.86	21.00	20.81	20.72				
20	256QAM	1	99	20.99	20.88	21.02	20.80	20.77				
20	256QAM	50	0	20.85	20.90	20.99	20.83	20.74				
20	256QAM	50	24	20.82	20.81	20.94	20.74	20.60	22	2		
20	256QAM	50	90	20.81	20.84	20.94	20.69	20.59				
20	256QAM	100	0	20.85	20.83	21.05	20.84	20.79				
Channel				39725	40173	40620	41068	41515				
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5				
15	QPSK	1	0	22.48	22.45	22.56	22.35	22.22	24.00	0		
15	QPSK	1	37	22.33	22.25	22.43	22.28	22.14				
15	QPSK	1	74	22.36	22.50	22.52	22.31	22.30				
15	QPSK	36	0	22.37	22.43	22.49	22.29	22.28				
15	QPSK	36	20	22.44	22.38	22.48	22.22	22.12				
15	QPSK	36	39	22.38	22.32	22.48	22.31	22.18	24	0		
15	QPSK	75	0	22.35	22.30	22.45	22.28	22.20				
15	16QAM	1	0	22.47	22.36	22.49	22.25	22.33				
15	16QAM	1	37	22.32	22.35	22.41	22.32	22.20				
15	16QAM	1	74	22.33	22.37	22.42	22.27	22.22				
15	16QAM	36	0	22.36	22.37	22.50	22.40	22.20	24	0		
15	16QAM	36	20	22.39	22.46	22.45	22.35	22.21				
15	16QAM	36	39	22.35	22.32	22.55	22.24	22.23				
15	16QAM	75	0	22.47	22.49	22.53	22.34	22.25				
15	64QAM	1	0	22.42	22.36	22.45	22.39	22.21				
15	64QAM	1	37	22.37	22.41	22.44	22.22	22.24	24	0		
15	64QAM	1	74	22.44	22.38	22.38	22.23	22.11				
15	64QAM	36	0	22.32	22.34	22.42	22.34	22.20				
15	64QAM	36	20	22.33	22.43	22.54	22.19	22.30				
15	64QAM	36	39	22.40	22.35	22.48	22.18	22.21				
15	64QAM	75	0	22.33	22.29	22.45	22.31	22.26	22	2		
15	256QAM	1	0	20.80	20.76	20.84	20.64	20.64				
15	256QAM	1	37	20.82	20.80	20.91	20.73	20.64				
15	256QAM	1	74	20.89	20.78	20.88	20.65	20.69				
15	256QAM	36	0	20.77	20.78	20.85	20.74	20.68				
15	256QAM	36	20	20.79	20.66	20.89	20.69	20.58	22	2		
15	256QAM	36	39	20.86	20.87	20.98	20.72	20.65				
15	256QAM	75	0	20.81	20.84	20.96	20.76	20.76				
Channel				39700	40160	40620	41080	41540				
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	22.50	22.45	22.59	22.31	22.25	24.00	0		
10	QPSK	1	25	22.30	22.26	22.44	22.26	22.16				
10	QPSK	1	49	22.37	22.45	22.48	22.36	22.25				
10	QPSK	25	0	22.44	22.38	22.54	22.30	22.24				
10	QPSK	25	12	22.42	22.31	22.46	22.18	22.17				
10	QPSK	25	25	22.30	22.38	22.50	22.33	22.20	24	0		
10	QPSK	50	0	22.26	22.26	22.46	22.29	22.21				
10	16QAM	1	0	22.41	22.40	22.45	22.29	22.21				
10	16QAM	1	25	22.35	22.40	22.51	22.26	22.23				
10	16QAM	1	49	22.39	22.34	22.47	22.36	22.22				
10	16QAM	25	0	22.31	22.34	22.52	22.34	22.22	24	0		
10	16QAM	25	12	22.40	22.49	22.54	22.35	22.21				
10	16QAM	25	25	22.36	22.33	22.54	22.29	22.32				
10	16QAM	50	0	22.38	22.43	22.48	22.40	22.28				
10	64QAM	1	0	22.49	22.34	22.55	22.37	22.21				
10	64QAM	1	25	22.37	22.33	22.43	22.30	22.24	24	0		
10	64QAM	1	49	22.35	22.30	22.49	22.29	22.21				
10	64QAM	25	0	22.31	22.27	22.39	22.25	22.26				
10	64QAM	25	12	22.40	22.37	22.51	22.26	22.23				
10	64QAM	25	25	22.39	22.34	22.48	22.19	22.16				
10	64QAM	50	0	22.40	22.35	22.49	22.27	22.26	22	2		
10	256QAM	1	0	20.79	20.82	20.86	20.68	20.67				
10	256QAM	1	25	20.84	20.74	20.84	20.74	20.66				
10	256QAM	1	49	20.87	20.78	20.89	20.68	20.79				
10	256QAM	25	0	20.75	20.80	20.92	20.72	20.74				
10	256QAM	25	12	20.75	20.74	20.89	20.70	20.54	22	2		
10	256QAM	25	25	20.50	20.86	20.90	20.77	20.61				
10	256QAM	50	0	20.88	20.82	20.91	20.78	20.78				
Channel				39675	40148	40620	41093	41565				
Frequency (MHz)				2498.5	2545.8	2593	2640.8	2687.5				
5	QPSK	1	0	22.48	22.44	22.58	22.35	22.29	24.00	0		
5	QPSK	1	12	22.29	22.33	22.42	22.18	22.17				
5	QPSK	1	24	22.41	22.43	22.48	22.28	22.27				
5	QPSK	12	0	22.44	22.48	22.49	22.29	22.30				
5	QPSK	12	7	22.36	22.32	22.42	22.23	22.16				
5	QPSK	12	13	22.33	22.29	22.42	22.28	22.28	24	0		
5	QPSK	25	0	22.30	22.34	22.43	22.25	22.17				
5	16QAM	1	0	22.39	22.40	22.54	22.30	22.22				
5	16QAM	1	12	22.32	22.40	22.42	22.33	22.30				
5	16QAM	1	24	22.40	22.42	22.44	22.30	22.19				
5	16QAM	12	0	22.39	22.43	22.48	22.37	22.31	24	0		
5	16QAM	12	7	22.40	22.48	22.55	22.34	22.29				
5	16QAM	12	13	22.35	22.43	22.47	22.33	22.27				
5	16QAM	25	0	22.39	22.45	22.55	22.32	22.27				
5	64QAM	1	0	22.43	22.37	22.45	22.37	22.30				
5	64QAM	1	12	22.46	22.43	22.50	22.31	22.18	24	0		
5	64QAM	1	24	22.44	22.29	22.43	22.12	22.17				
5	64QAM	12	0	22.31	22.30	22.41	22.26	22.24				
5	64QAM	12	7	22.30	22.37	22.45	22.25	22.25				
5	64QAM	12	13	22.47	22.30	22.48	22.15	22.20				
5	64QAM	25	0	22.39	22.33	22.43	22.33	22.19	22	2		
5	256QAM	1	0	20.77	20.74	20.84	20.63	20.68				
5	256QAM	1	12	20.78	20.77	20.93	20.73	20.73				
5	256QAM	1	24	20.91	20.77	20.99	20.72	20.74				
5	256QAM	12	0	20.79	20.85	20.84	20.72	20.74				
5	256QAM	12	7	20.77	20.68	20.91	20.61	20.55	22	2		
5	256QAM	12	13	20.94	20.81	20.98	20.74	20.70				
5	256QAM	25	0	20.85	20.80	20.91	20.79	20.75				

Band 41 PC2 Ant 0 DSI3 Simultaneous										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low 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	2		



GSM850 Ant 1 DSS Simultaneous

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	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	32.35	32.42	32.18	33.50	23.35	23.42	23.18	24.50
GPRS 1 Tx slots	32.29	32.31	32.06	33.30	23.29	23.31	23.06	24.50
GPRS 2 Tx slots	29.91	29.93	29.69	31.00	23.91	23.93	23.69	25.00
GPRS 3 Tx slots	27.67	27.64	27.52	29.00	23.41	23.38	23.26	24.74
GPRS 4 Tx slots	28.29	28.21	28.01	27.00	23.29	23.21	23.01	24.00
EDGE 1 Tx slot	25.16	25.24	25.11	26.50	16.16	16.24	16.11	17.50
EDGE 2 Tx slots	23.48	23.63	23.42	25.00	17.48	17.63	17.42	19.00
EDGE 3 Tx slots	22.28	22.42	22.25	23.50	18.00	18.16	17.99	19.24
EDGE 4 Tx slots	20.22	20.35	20.28	22.00	17.22	17.35	17.28	19.00

GSM1900 Ant 1 DSS Simultaneous

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	24.05	24.35	24.13	25.30	15.05	15.35	15.13	16.30
GPRS 1 Tx slot	23.98	24.28	24.07	25.30	14.98	15.28	15.07	16.30
GPRS 2 Tx slots	20.81	21.05	20.89	22.30	14.81	15.05	14.89	16.30
GPRS 3 Tx slots	19.11	19.31	19.09	20.50	14.85	15.05	14.83	16.24
GPRS 4 Tx slots	18.22	18.48	18.33	19.30	15.22	15.48	15.33	16.30
EDGE 1 Tx slot	24.16	24.40	24.15	25.00	15.16	15.40	15.15	16.00
EDGE 2 Tx slots	21.03	21.25	21.03	22.30	15.03	15.25	15.03	16.30
EDGE 3 Tx slots	18.94	19.22	19.02	20.50	14.68	14.96	14.76	16.24
EDGE 4 Tx slots	17.97	18.16	17.91	19.30	14.97	15.16	14.91	16.30

WCDMA II Ant 1 DSS Simultaneous

WCDMA IV Ant 1 DSS Simultaneous

WCDMA V Ant 1 DSS Simultaneous

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9490	9538		1312	1413	1513		4132	4162	4233	
Rx Channel	9692	9590	9693		1597	1633	1798		4357	4407	4468	
Frequency (MHz)	1852.4	1860	1907.8		1732.4	1732.6	1752.6		4364	438.4	446.6	
3GPP Rel 99 AMR 12.2kbps	15.49	15.69	15.27	16.70	15.67	15.62	15.39	16.90	22.23	22.30	22.03	23.30
3GPP Rel 99 RMC 12.2kbps	15.63	15.67	15.40	16.70	15.59	15.71	15.66	16.90	22.25	22.34	22.05	23.30
3GPP Rel 6 HSDPA Subtest-1	14.78	14.86	14.79	15.70	14.67	14.83	14.73	15.90	21.21	21.12	20.93	22.30
3GPP Rel 6 HSDPA Subtest-2	14.72	14.81	14.74	15.70	14.77	14.68	14.70	15.90	21.09	21.19	21.06	22.30
3GPP Rel 6 HSDPA Subtest-3	14.10	14.17	14.25	15.20	14.16	14.14	14.27	15.40	20.71	20.80	20.57	21.80
3GPP Rel 6 HSDPA Subtest-4	14.09	14.25	14.28	15.20	14.06	14.16	14.31	15.40	20.69	20.83	20.58	21.80
3GPP Rel 6 DC-HSDPA Subtest-1	14.71	14.61	14.83	15.70	14.53	14.64	14.89	15.90	21.13	21.18	21.20	22.30
3GPP Rel 6 DC-HSDPA Subtest-2	14.86	14.77	14.89	15.70	14.66	14.68	14.77	15.90	21.16	21.24	21.04	22.30
3GPP Rel 6 DC-HSDPA Subtest-3	14.26	14.15	14.26	15.20	14.27	14.05	14.25	15.40	20.84	20.78	20.88	21.80
3GPP Rel 6 DC-HSDPA Subtest-4	14.19	14.10	14.19	15.20	14.10	14.25	14.22	15.40	20.65	20.65	20.43	21.80
3GPP Rel 6 HSUPA Subtest-1	14.60	14.86	14.76	15.70	14.79	14.65	14.72	15.90	21.21	21.27	21.26	22.30
3GPP Rel 6 HSUPA Subtest-2	12.78	12.70	12.86	13.70	12.65	12.46	12.77	13.90	19.14	19.28	19.12	20.30
3GPP Rel 6 HSUPA Subtest-3	13.64	13.65	13.70	14.70	13.71	13.75	13.67	14.90	20.10	20.23	20.06	21.30
3GPP Rel 6 HSUPA Subtest-4	12.86	12.64	12.79	13.70	12.68	12.60	12.84	13.90	19.00	19.30	19.14	20.30
3GPP Rel 6 HSUPA Subtest-5	14.69	14.88	14.70	15.70	14.61	14.74	14.75	15.90	21.13	21.11	21.14	22.30



Band 12 Ant 1 DSI3 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Int. (min)	MPE (dB)	MPE (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.76	22.71			23.5	0
10	QPSK	1	25	22.62	22.82	22.82			23.5	0
10	QPSK	1	49	22.65	22.82	22.84			23.5	0
10	QPSK	25	0	22.66	22.75	22.83			23.5	0
10	QPSK	25	25	22.68	22.82	22.82			23.5	0
10	QPSK	25	50	22.83	22.72	22.80			23.5	0
10	QPSK	50	0	22.83	22.74	22.80			23.5	0
10	QPSK	1	25	22.58	22.53	22.56			23.5	0
10	16QAM	1	49	22.43	22.47	22.54			23.5	0
10	16QAM	1	73	22.22	22.32	22.18			23.5	0
10	16QAM	25	12	22.18	22.19	22.13			23	0.5
10	16QAM	25	25	22.19	22.11	22.15			23	0.5
10	16QAM	50	0	22.22	22.30	22.23			23	0.5
10	16QAM	1	25	22.13	22.07	22.15			23	0.5
10	16QAM	1	49	22.11	22.12	22.10			23	0.5
10	16QAM	25	0	21.22	21.28	21.24			22	1.5
10	16QAM	25	12	21.18	21.16	21.19			22	1.5
10	16QAM	25	25	21.23	21.24	21.24			22	1.5
10	16QAM	50	0	21.15	21.28	21.18			22	1.5
10	256QAM	1	0	19.07	19.24	19.13			20	3.5
10	256QAM	1	49	19.06	19.05	19.02			20	3.5
10	256QAM	1	73	19.13	19.25	19.21			20	3.5
10	256QAM	25	12	19.18	19.25	19.27			20	3.5
10	256QAM	25	25	19.32	19.25	19.23			20	3.5
10	256QAM	50	0	19.03	19.14	19.10			20	3.5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.26	22.68	22.67			23.5	0
5	QPSK	1	24	22.43	22.68	22.34			23.5	0
5	QPSK	12	0	22.31	22.57	22.56			23.5	0
5	QPSK	12	7	22.44	22.65	22.65			23.5	0
5	QPSK	12	13	22.49	22.63	22.51			23.5	0
5	QPSK	25	0	22.29	22.68	22.61			23.5	0
5	16QAM	1	0	22.24	22.11	22.00			23.5	0
5	16QAM	1	12	22.45	22.43	22.44			23.5	0
5	16QAM	1	24	22.22	22.21	22.19			23.5	0
5	16QAM	12	7	22.13	22.17	22.13			23	0.5
5	16QAM	12	7	22.05	22.04	22.06			23	0.5
5	16QAM	25	0	22.07	22.09	22.06			23	0.5
5	16QAM	25	0	22.12	22.18	22.11			23	0.5
5	16QAM	1	0	22.08	22.24	22.17			23	0.5
5	16QAM	1	24	22.01	22.03	22.03			23	0.5
5	16QAM	12	0	21.09	21.23	21.17			22	1.5
5	16QAM	12	13	21.06	21.01	21.02			22	1.5
5	16QAM	12	13	21.15	21.05	21.10			22	1.5
5	16QAM	25	0	21.09	21.17	21.03			22	1.5
5	256QAM	1	0	18.93	19.03	18.94			20	3.5
5	256QAM	1	24	18.96	18.91	18.96			20	3.5
5	256QAM	12	0	19.03	19.11	19.06			20	3.5
5	256QAM	12	13	19.22	19.16	19.14			20	3.5
5	256QAM	25	0	19.00	19.14	19.11			20	3.5
Channel										
Frequency (MHz)										
14	QPSK	1	0	22.44	22.67	22.52			23.5	0
14	QPSK	1	5	22.41	22.58	22.36			23.5	0
14	QPSK	1	5	22.53	22.60	22.57			23.5	0
14	QPSK	3	1	22.45	22.61	22.57			23.5	0
14	QPSK	3	1	22.49	22.62	22.48			23.5	0
14	QPSK	3	1	22.35	22.39	22.41			23.5	0
14	16QAM	1	0	22.29	22.68	22.55			23.5	0
14	16QAM	1	3	22.49	22.38	22.43			23.5	0
14	16QAM	1	5	22.35	22.39	22.41			23.5	0
14	16QAM	3	1	22.60	22.69	22.54			23.5	0
14	16QAM	3	1	22.63	22.45	22.56			23.5	0
14	16QAM	6	0	22.14	22.23	22.08			23	0.5
14	16QAM	1	0	22.10	22.16	22.15			23	0.5
14	16QAM	1	5	22.02	22.02	22.05			23	0.5
14	16QAM	1	5	22.02	22.08	21.95			23	0.5
14	16QAM	3	0	22.13	22.15	22.14			22	1.5
14	16QAM	3	0	22.09	22.07	22.05			22	1.5
14	16QAM	3	3	22.09	22.18	22.15			22	1.5
14	256QAM	1	0	19.10	19.19	19.14			20	3.5
14	256QAM	1	0	19.07	19.14	19.05			20	3.5
14	256QAM	1	3	19.05	19.02	19.02			20	3.5
14	256QAM	1	14	19.02	18.96	18.97			20	3.5
14	256QAM	1	14	19.07	19.09	19.05			20	3.5
14	256QAM	3	1	19.11	19.13	19.23			20	3.5
14	256QAM	3	0	19.19	19.11	19.12			20	3.5
14	256QAM	6	0	19.05	19.01	19.12			20	3.5

Band 13 Ant 1 DSI3 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Time-up Int. (min)	MPE (dB)	MPE (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.21	22.21	22.21			23.5	0
10	QPSK	1	25	22.18	22.21	22.21			23.5	0
10	QPSK	1	49	22.14	22.14	22.14			23.5	0
10	QPSK	25	0	22.23	22.23	22.23			23.5	0
10	QPSK	25	25	22.08	22.08	22.08			23.5	0
10	QPSK	50	0	22.15	22.15	22.15			23.5	0
10	16QAM	1	25	22.10	22.10	22.10			23.5	0
10	16QAM	1	49	22.05	22.05	22.05			23.5	0
10	16QAM	25	12	21.82	21.82	21.82			23	0.5
10	16QAM	25	12	21.82	21.82	21.82			23	0.5
10	16QAM	25	25	21.86	21.86	21.86			23	0.5
10	16QAM	50	0	21.89	21.89	21.89			23	0.5
10	16QAM	1	25	21.84	21.84	21.84			23	0.5
10	16QAM	1	25	21.84	21.84	21.84			23	0.5
10	16QAM	25	0	20.74	20.74	20.74			22	1.5
10	16QAM	25	12	20.81	20.81	20.81			22	1.5
10	16QAM	25	12	20.81	20.81	20.81			22	1.5
10	16QAM	50	0	20.80	20.80	20.80			22	1.5
10	256QAM	1	0	18.76	18.76	18.76			20	3.5
10	256QAM	1	49	18.52	18.52	18.52			20	3.5
10	256QAM	1	73	18.61	18.61	18.61			20	3.5
10	256QAM	25	12	18.61	18.61	18.61			20	3.5
10	256QAM	25	12	18.71	18.71	18.71			20	3.5
10	256QAM	50	0	18.63	18.63	18.63			20	3.5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.12	22.21	22.08			23.5	0
5	QPSK	1	12	22.09	22.06	21.96			23.5	0
5	QPSK	1	24	21.92	22.07	22.03			23.5	0
5	QPSK	12	0	22.08	22.12	22.01			23.5	0
5	QPSK	12	7	21.97	22.07	21.98			23.5	0
5	QPSK	12	13	22.00	21.95	21.93			23.5	0
5	QPSK	25	0	21.97	22.00	21.97			23.5	0
5	16QAM	1	0	22.16	22.20	22.05			23.5	0
5	16QAM	1	12	21.97	22.06	21.96			23.5	0
5	16QAM	1	24	21.88	21.92	21.89			23.5	0
5	16QAM	12	0	21.88	21.87	21.80			23	0.5
5	16QAM	12	7	21.45	21.53	21.44			23	0.5
5	16QAM	12	13	21.50	21.50	21.59			23	0.5
5	16QAM	25	0	21.59	21.80	21.66			23	0.5
5	16QAM	1	0	21.75	21.82	21.70			23	0.5
5	16QAM	1	12	21.80	21.80	21.86			23	0.5
5	16QAM	1	24	21.80	21.80	21.86			23	0.5
5	16QAM	12	0	20.82	20.73	20.58			22	1.5
5	16QAM	12	13	20.93	20.91	20.98			22	1.5
5	16QAM	25	0							



Band 26 Ant 1 DS13 Simultaneous										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Tune-up (MHz)	MRR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.63	22.65	22.61	24	0		
15	QPSK	37	0	22.43	22.52	22.41				
15	QPSK	1	74	22.48	22.35	22.41				
15	QPSK	36	0	22.50	22.59	22.54				
15	QPSK	36	20	22.25	22.42	22.39				
15	QPSK	36	36	22.39	22.49	22.42				
15	QPSK	75	0	22.20	22.45	22.33				
15	HQDM	1	0	22.54	22.64	22.59				
15	HQDM	1	37	22.37	22.40	22.39	24	0		
15	HQDM	1	74	22.22	22.51	22.45				
15	HQDM	36	0	22.52	22.68	21.99				
15	HQDM	36	20	21.81	21.84	21.82	23.5	0.5		
15	HQDM	36	36	21.91	21.85	21.90				
15	HQDM	75	0	21.99	22.02	21.95				
15	HQDM	1	0	22.01	22.12	22.01				
15	HQDM	1	37	21.92	21.81	21.87	23.5	0.5		
15	HQDM	1	74	21.89	21.80	21.94				
15	HQDM	36	0	21.06	21.10	21.07				
15	HQDM	36	20	21.02	21.14	21.08	22.5	1.5		
15	HQDM	36	36	21.10	21.08	21.09				
15	HQDM	75	0	20.80	20.99	20.87				
15	ZSSBDM	1	0	18.61	18.66	18.66				
15	ZSSBDM	1	37	18.67	18.64	18.67	20.5	3.5		
15	ZSSBDM	1	74	18.62	18.90	18.81				
15	ZSSBDM	36	0	18.66	18.86	18.86				
15	ZSSBDM	36	20	19.01	19.00	19.07	20.5	3.5		
15	ZSSBDM	36	36	18.98	19.02	18.91				
15	ZSSBDM	75	0	18.84	18.97	18.88				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.62	22.61	22.41	24	0		
10	QPSK	1	37	22.33	22.43	22.41				
10	QPSK	1	49	22.43	22.45	22.30				
10	QPSK	25	0	22.45	22.48	22.48				
10	QPSK	25	12	22.29	22.38	22.28	24	0		
10	QPSK	25	25	22.32	22.45	22.27				
10	QPSK	50	0	22.47	22.37	22.24				
10	HQDM	1	0	22.42	22.59	22.30				
10	HQDM	1	25	22.22	22.27	22.30	24	0		
10	HQDM	1	37	22.22	22.09	22.06				
10	HQDM	25	0	21.95	21.97	21.91				
10	HQDM	25	12	21.75	21.76	21.74	23.5	0.5		
10	HQDM	25	12	21.76	21.79	21.73				
10	HQDM	50	0	21.88	21.96	21.88				
10	HQDM	1	0	21.88	22.06	21.95	23.5	0.5		
10	HQDM	1	37	21.88	21.90	21.87				
10	HQDM	1	49	21.23	21.84	21.87				
10	HQDM	25	0	20.94	21.05	20.94	22.5	1.5		
10	HQDM	25	12	20.87	21.03	20.98				
10	HQDM	25	25	20.25	21.04	20.85				
10	HQDM	50	0	20.78	20.99	20.82				
10	ZSSBDM	1	0	18.61	18.66	18.66				
10	ZSSBDM	1	25	18.70	18.75	18.83	20.5	3.5		
10	ZSSBDM	1	49	18.81	18.86	18.86				
10	ZSSBDM	36	0	18.66	18.86	18.86				
10	ZSSBDM	36	12	18.93	18.92	18.94	20.5	3.5		
10	ZSSBDM	36	25	18.92	18.88	18.87				
10	ZSSBDM	50	0	18.75	18.88	18.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.63	22.61	22.41	24	0		
5	QPSK	1	12	22.28	22.44	22.41				
5	QPSK	1	24	22.44	22.47	22.35				
5	QPSK	12	0	22.39	22.40	22.49				
5	QPSK	12	7	22.29	22.31	22.25	24	0		
5	QPSK	12	13	22.27	22.37	22.38				
5	HQDM	1	0	22.48	22.49	22.05				
5	HQDM	1	12	22.34	22.33	22.33	24	0		
5	HQDM	1	24	22.29	22.06	22.06				
5	HQDM	12	0	21.98	21.98	21.99				
5	HQDM	12	7	21.76	21.79	21.73	23.5	0.5		
5	HQDM	12	13	21.78	21.76	21.76				
5	HQDM	25	0	21.88	21.91	21.82				
5	HQDM	1	0	21.94	22.07	21.93	23.5	0.5		
5	HQDM	1	12	21.85	21.71	21.82				
5	HQDM	1	24	21.85	21.81	21.81				
5	HQDM	12	0	21.00	20.99	20.98				
5	HQDM	12	7	20.95	21.10	21.00	22.5	1.5		
5	HQDM	12	13	21.08	20.95	20.95				
5	HQDM	25	0	20.74	20.89	20.80				
5	ZSSBDM	1	0	18.61	18.66	18.66				
5	ZSSBDM	1	12	18.73	18.70	18.78	20.5	3.5		
5	ZSSBDM	1	24	18.80	18.76	18.77				
5	ZSSBDM	36	0	18.65	18.84	18.87				
5	ZSSBDM	36	12	18.89	18.95	18.97	20.5	3.5		
5	ZSSBDM	36	13	18.94	18.88	18.78				
5	ZSSBDM	25	0	18.75	18.91	18.80				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.63	22.61	22.41	24	0		
3	QPSK	1	8	22.31	22.38	22.40				
3	QPSK	1	14	22.41	22.44	22.27				
3	QPSK	8	0	22.36	22.40	22.46				
3	QPSK	8	4	22.31	22.36	22.26	24	0		
3	QPSK	8	7	22.24	22.46	22.37				
3	HQDM	1	0	22.10	22.41	22.23				
3	HQDM	1	8	22.42	22.54	22.53	24	0		
3	HQDM	1	14	22.26	22.45	22.40				
3	HQDM	8	0	21.99	22.04	21.88				
3	HQDM	8	4	21.71	21.76	21.71	23.5	0.5		
3	HQDM	8	7	21.77	21.75	21.83				
3	HQDM	15	0	21.88	21.95	21.87				
3	HQDM	1	0	21.90	22.05	21.93	23.5	0.5		
3	HQDM	1	7	21.79	21.74	21.82				
3	HQDM	1	14	21.80	21.82	21.82				
3	HQDM	8	0	21.01	21.01	20.92	22.5	1.5		
3	HQDM	8	4	20.90	21.02	20.99				
3	HQDM	8	7	20.88	21.03	20.90				
3	HQDM	15	0	20.83	20.84	20.79				
3	ZSSBDM	1	0	18.66	18.64	18.83				
3	ZSSBDM	1	8	18.81	18.72	18.75	20.5	3.5		
3	ZSSBDM	1	16	18.94	18.94	18.96				
3	ZSSBDM	8	0	18.86	18.96	18.94				
3	ZSSBDM	8	4	18.98	18.95	19.02	20.5	3.5		
3	ZSSBDM	8	7	18.85	18.93	18.88				
3	ZSSBDM	15	0	18.80	18.83	18.83				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.62	22.60	22.40	24	0		
1.4	QPSK	1	3	22.29	22.39	22.31				
1.4	QPSK	1	5	22.42	22.43	22.33				
1.4	QPSK	3	0	22.45	22.56	22.44				
1.4	QPSK	3	1	22.32	22.31	22.30				
1.4	QPSK	3	3	22.25	22.37	22.36	24	0		
1.4	QPSK	3	5	22.42	22.38	22.21				
1.4	HQDM	1	0	22.49	22.50	22.49				
1.4	HQDM	1	3	22.22	22.26	22.27	24	0		
1.4	HQDM	1	5	22.21	22.37	22.27				
1.4	HQDM	3	0	22.47	22.50	22.38				
1.4	HQDM	3	1	22.22	22.22	22.28				
1.4	HQDM	3	3	22.34	22.30	22.25				
1.4	HQDM	6	0	21.86	22.01	21.91	23.5	0.5		
1.4	HQDM	1	0	21.90	22.01	21.94				
1.4	HQDM	1	3	21.80	21.87	21.82				
1.4	HQDM	1	5	21.85	21.84	21.87	23.5	0.5		
1.4	HQDM	3	0	21.97	21.80	21.93				
1.4	HQDM	3	1	21.87	22.04	22.00				



Band 38 PC3 Ant 1 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	19.18	19.28	19.21	21	0	
20	QPSK	1	49	19.09	19.15	19.08			
20	QPSK	1	99	19.06	19.13	19.03			
20	QPSK	50	0	19.11	19.24	19.17			
20	QPSK	50	24	19.02	19.10	19.07	21	0	
20	QPSK	50	50	19.05	19.19	19.16			
20	QPSK	100	0	19.05	19.20	19.15			
20	16QAM	1	0	19.11	19.20	19.17	21	0	
20	16QAM	1	49	19.11	19.20	19.15			
20	16QAM	1	99	19.03	19.16	19.05			
20	16QAM	50	0	19.18	19.25	19.21			
20	16QAM	50	24	19.17	19.20	19.12	21	0	
20	16QAM	50	50	19.06	19.12	19.09			
20	16QAM	100	0	19.08	19.24	19.13			
20	64QAM	1	0	19.15	19.22	19.20	21	0	
20	64QAM	1	49	19.12	19.20	19.17			
20	64QAM	1	99	19.17	19.25	19.08			
20	64QAM	50	0	19.06	19.11	19.07			
20	64QAM	50	24	19.01	19.13	19.06	21	0	
20	64QAM	50	50	19.17	19.23	19.17			
20	64QAM	100	0	19.12	19.15	19.04			
20	256QAM	1	0	19.12	19.15	19.09	21	0	
20	256QAM	1	49	19.12	19.18	19.04			
20	256QAM	1	99	19.06	19.22	19.12			
20	256QAM	50	0	19.07	19.21	19.04			
20	256QAM	50	24	19.09	19.14	19.03	21	0	
20	256QAM	50	50	19.04	19.20	19.13			
20	256QAM	100	0	19.02	19.14	19.09			
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	19.00	19.19	19.04	21	0	
15	QPSK	1	37	19.07	19.09	19.00			
15	QPSK	1	74	19.04	19.08	19.07			
15	QPSK	36	0	19.05	19.12	19.03	21	0	
15	QPSK	36	20	19.03	19.07	19.08			
15	QPSK	36	39	19.09	19.06	19.12			
15	QPSK	75	0	19.09	19.16	19.01			
15	16QAM	1	0	19.08	19.04	19.13	21	0	
15	16QAM	1	37	19.07	19.13	19.03			
15	16QAM	1	74	19.03	19.05	19.01			
15	16QAM	36	0	19.02	19.13	19.09	21	0	
15	16QAM	36	20	19.10	19.09	19.07			
15	16QAM	36	39	19.03	19.04	19.06			
15	16QAM	75	0	19.02	19.21	19.05			
15	64QAM	1	0	19.10	19.09	19.12	21	0	
15	64QAM	1	37	19.05	19.10	19.03			
15	64QAM	1	74	19.10	19.16	19.04			
15	64QAM	36	0	19.01	19.12	19.03	21	0	
15	64QAM	36	20	19.04	19.03	19.02			
15	64QAM	36	39	19.09	19.19	19.04			
15	64QAM	75	0	19.04	19.05	19.00			
15	256QAM	1	0	19.09	19.09	19.00	21	0	
15	256QAM	1	37	19.03	19.01	19.08			
15	256QAM	1	74	19.04	19.14	19.04			
15	256QAM	36	0	19.05	19.17	19.02	21	0	
15	256QAM	36	20	19.04	19.07	19.09			
15	256QAM	36	39	19.01	19.07	19.09			
15	256QAM	75	0	19.04	19.09	19.04			
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	19.12	19.22	19.08	21	0	
10	QPSK	1	25	19.07	19.06	19.01			
10	QPSK	1	49	19.09	19.07	19.01			
10	QPSK	25	0	19.04	19.06	19.04	21	0	
10	QPSK	25	12	19.02	19.07	19.03			
10	QPSK	25	25	19.03	19.15	19.10			
10	QPSK	50	0	19.01	19.03	19.08			
10	16QAM	1	0	19.09	19.08	19.01	21	0	
10	16QAM	1	25	19.07	19.11	19.12			
10	16QAM	1	49	19.05	19.05	19.06			
10	16QAM	25	0	19.08	19.21	19.17	21	0	
10	16QAM	25	12	19.01	19.05	19.01			
10	16QAM	25	25	19.05	19.05	19.02			
10	16QAM	50	0	19.05	19.16	19.08			
10	64QAM	1	0	19.09	19.12	19.02	21	0	
10	64QAM	1	25	19.04	19.15	19.10			
10	64QAM	1	49	19.01	19.15	19.02			
10	64QAM	25	0	19.07	19.04	19.06	21	0	
10	64QAM	25	12	19.00	19.07	19.00			
10	64QAM	25	25	19.15	19.12	19.05			
10	64QAM	50	0	19.05	19.11	19.01			
10	256QAM	1	0	19.08	19.07	19.01	21	0	
10	256QAM	1	25	19.09	19.16	19.01			
10	256QAM	1	49	19.00	19.08	19.09			
10	256QAM	25	0	19.05	19.15	19.08	21	0	
10	256QAM	25	12	19.05	19.09	19.02			
10	256QAM	25	25	19.07	19.11	19.08			
10	256QAM	50	0	19.09	19.04	19.00			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	19.00	19.17	19.16	21	0	
5	QPSK	1	12	19.05	19.09	19.05			
5	QPSK	1	24	19.09	19.00	19.06			
5	QPSK	12	0	19.07	19.20	19.10	21	0	
5	QPSK	12	7	19.03	19.02	19.07			
5	QPSK	12	13	19.06	19.05	19.10			
5	QPSK	25	0	19.04	19.04	19.09	21	0	
5	16QAM	1	0	19.05	19.04	19.05			
5	16QAM	1	12	19.06	19.10	19.09	21	0	
5	16QAM	1	24	19.09	19.07	19.09			
5	16QAM	12	0	19.02	19.10	19.18	21	0	
5	16QAM	12	7	19.14	19.11	19.06			
5	16QAM	12	13	19.09	19.01	19.03			
5	16QAM	25	0	19.03	19.08	19.11	21	0	
5	64QAM	1	0	19.10	19.10	19.15			
5	64QAM	1	12	19.09	19.10	19.01	21	0	
5	64QAM	1	24	19.04	19.13	19.02			
5	64QAM	12	0	19.09	19.04	19.04	21	0	
5	64QAM	12	7	19.03	19.09	19.04			
5	64QAM	12	13	19.08	19.16	19.04			
5	64QAM	25	0	19.03	19.09	19.07	21	0	
5	256QAM	1	0	19.09	19.00	19.09			
5	256QAM	1	12	19.00	19.11	19.08	21	0	
5	256QAM	1	24	19.05	19.07	19.09			
5	256QAM	12	0	19.09	19.17	19.08	21	0	
5	256QAM	12	7	19.03	19.07	19.09			
5	256QAM	12	13	19.01	19.07	19.00			
5	256QAM	25	0	19.06	19.06	19.02	21	0	

Band 38 PC2 Ant 1 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	21.07	21.18	21.10	22.6	0	
20	QPSK	1	49	21.02	21.12	21.09			
20	QPSK	1	99	21.03	21.10	21.08			
20	QPSK	50	0	21.04	21.14	20.98			
20	QPSK	50	24	21.00	21.11	21.01	22.6	0	
20	QPSK	50	50	21.01	21.08	20.97			
20	QPSK	100	0	20.90	21.05	20.94			
20	16QAM	1	0	20.96	21.12	21.07	22.6	0	
20	16QAM	1	49	21.04	21.08	20.97			
20	16QAM	1	99	21.02	21.07	20.89			
20	16QAM	50	0	20.92	21.03	20.99			
20	16QAM	50	24	20.93	21.03	20.93	22.6	0	
20	16QAM	50	50	21.06	21.09	20.92			
20	16QAM	100	0	20.96	21.11	21.06			



Band 41 PC3 Ant 1 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				39780	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.27	19.24	19.38	19.12	19.05	21	0
20	QPSK	1	49	19.22	19.17	19.31	19.11	19.04		
20	QPSK	1	99	19.19	19.17	19.21	19.08	19.09		
20	QPSK	50	0	19.21	19.20	19.35	19.10	19.32		
20	QPSK	50	24	19.19	19.10	19.24	19.06	19.19		
20	QPSK	50	50	19.14	19.23	19.29	19.11	19.15		
20	QPSK	100	0	19.20	19.23	19.26	19.12	19.20		
20	16QAM	1	0	19.17	19.24	19.29	19.14	19.18		
20	16QAM	1	49	19.31	19.29	19.34	19.13	19.31		
20	16QAM	1	99	19.29	19.29	19.34	19.12	19.20		
20	16QAM	50	0	19.13	19.21	19.23	19.03	19.18		
20	16QAM	50	24	19.24	19.19	19.35	19.13	19.23		
20	16QAM	50	50	19.17	19.13	19.26	19.11	19.13		
20	16QAM	100	0	19.20	19.17	19.23	19.06	19.20		
20	84QAM	1	0	19.21	19.19	19.29	19.06	19.18		
20	84QAM	1	49	19.18	19.21	19.31	19.15	19.26		
20	84QAM	1	99	19.16	19.20	19.29	19.05	19.23		
20	84QAM	50	0	19.28	19.24	19.36	19.15	19.19		
20	84QAM	50	24	19.07	19.13	19.22	19.03	19.07		
20	84QAM	50	50	19.09	19.19	19.21	19.07	19.06		
20	84QAM	100	0	19.26	19.19	19.29	19.08	19.27		
20	256QAM	1	0	19.22	19.28	19.31	19.18	19.15		
20	256QAM	1	49	19.23	19.26	19.30	19.15	19.19		
20	256QAM	1	99	19.14	19.16	19.31	19.19	19.15		
20	256QAM	50	0	19.16	19.08	19.21	19.00	19.19		
20	256QAM	50	24	19.24	19.26	19.35	19.09	19.21		
20	256QAM	50	50	19.17	19.13	19.26	19.11	19.13		
20	256QAM	100	0	19.16	19.21	19.25	19.02	19.17		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.09	19.03	19.25	19.08	19.00	21.00	0
15	QPSK	1	37	19.06	19.14	19.17	19.05	19.08		
15	QPSK	1	74	19.05	19.05	19.06	19.05	19.02		
15	QPSK	36	0	19.17	19.08	19.26	19.09	19.06		
15	QPSK	36	20	19.10	19.05	19.07	19.00	19.02		
15	QPSK	36	39	19.01	19.12	19.24	19.08	19.01		
15	QPSK	75	0	19.06	19.18	19.16	19.06	19.11		
15	16QAM	1	0	19.07	19.14	19.22	19.09	19.14		
15	16QAM	1	37	19.22	19.19	19.21	19.06	19.16		
15	16QAM	1	74	19.23	19.12	19.22	19.09	19.09		
15	16QAM	36	0	19.09	19.15	19.11	19.09	19.09		
15	16QAM	36	20	19.11	19.14	19.22	19.00	19.12		
15	16QAM	36	39	19.16	19.28	19.32	19.06	19.18		
15	16QAM	75	0	19.13	19.10	19.20	19.00	19.15		
15	84QAM	1	0	19.10	19.05	19.15	19.08	19.15		
15	84QAM	1	37	19.10	19.13	19.24	19.01	19.16		
15	84QAM	1	74	19.01	19.15	19.24	19.08	19.11		
15	84QAM	36	0	19.07	19.07	19.26	19.06	19.05		
15	84QAM	36	20	19.02	19.08	19.06	19.05	19.03		
15	84QAM	36	39	19.03	19.09	19.06	19.02	19.02		
15	84QAM	75	0	19.20	19.06	19.22	19.09	19.16		
15	256QAM	1	0	19.11	19.13	19.22	19.04	19.09		
15	256QAM	1	37	19.20	19.18	19.20	19.03	19.15		
15	256QAM	1	74	19.04	19.06	19.16	19.01	19.13		
15	256QAM	36	0	19.09	19.03	19.14	19.04	19.06		
15	256QAM	36	20	19.21	19.14	19.30	19.00	19.08		
15	256QAM	36	39	19.09	19.10	19.13	19.09	19.09		
15	256QAM	75	0	19.09	19.18	19.21	19.04	19.09		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.24	19.13	19.22	19.06	19.03	21.00	0
10	QPSK	1	25	19.07	19.02	19.15	19.09	19.01		
10	QPSK	1	49	19.09	19.09	19.16	19.03	19.08		
10	QPSK	25	0	19.07	19.20	19.28	19.04	19.20		
10	QPSK	25	12	19.06	19.05	19.12	19.06	19.15		
10	QPSK	25	25	19.06	19.11	19.18	19.08	19.04		
10	QPSK	50	0	19.16	19.11	19.15	19.07	19.08		
10	16QAM	1	0	19.10	19.11	19.25	19.06	19.13		
10	16QAM	1	25	19.28	19.16	19.25	19.09	19.16		
10	16QAM	1	49	19.13	19.15	19.17	19.07	19.04		
10	16QAM	25	0	19.00	19.18	19.16	19.03	19.07		
10	16QAM	25	12	19.19	19.14	19.28	19.04	19.12		
10	16QAM	25	25	19.13	19.25	19.33	19.16	19.20		
10	16QAM	50	0	19.10	19.10	19.13	19.02	19.17		
10	84QAM	1	0	19.14	19.15	19.21	19.08	19.12		
10	84QAM	1	25	19.01	19.07	19.22	19.10	19.19		
10	84QAM	1	49	19.03	19.06	19.14	19.07	19.08		
10	84QAM	25	0	19.26	19.19	19.19	19.02	19.05		
10	84QAM	25	12	19.01	19.07	19.06	19.06	19.04		
10	84QAM	25	25	19.04	19.06	19.14	19.01	19.01		
10	84QAM	50	0	19.14	19.05	19.14	19.09	19.12		
10	256QAM	1	0	19.09	19.16	19.19	19.10	19.03		
10	256QAM	1	25	19.06	19.15	19.15	19.09	19.06		
10	256QAM	1	49	19.06	19.06	19.21	19.14	19.04		
10	256QAM	25	0	19.02	19.09	19.16	19.05	19.04		
10	256QAM	25	12	19.15	19.15	19.19	19.05	19.14		
10	256QAM	25	25	19.00	19.04	19.13	19.03	19.07		
10	256QAM	50	0	19.02	19.12	19.18	19.05	19.02		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2543	2593	2640.30	2687.5		
5	QPSK	1	0	19.24	19.16	19.22	19.01	19.04	21.00	0
5	QPSK	1	12	19.15	19.14	19.22	19.05	19.00		
5	QPSK	1	24	19.16	19.04	19.17	19.01	19.00		
5	QPSK	12	0	19.03	19.21	19.32	19.06	19.20		
5	QPSK	12	7	19.15	19.00	19.13	19.03	19.12		
5	QPSK	12	13	19.07	19.10	19.12	19.08	19.09		
5	QPSK	25	0	19.08	19.18	19.10	19.06	19.05		
5	16QAM	1	0	19.18	19.09	19.21	19.07	19.13		
5	16QAM	1	12	19.14	19.23	19.24	19.08	19.28		
5	16QAM	1	24	19.08	19.17	19.24	19.02	19.12		
5	16QAM	12	0	19.05	19.09	19.11	19.01	19.02		
5	16QAM	12	7	19.17	19.07	19.26	19.02	19.12		
5	16QAM	12	13	19.12	19.22	19.30	19.17	19.13		
5	16QAM	25	0	19.06	19.07	19.13	19.03	19.04		
5	84QAM	1	0	19.18	19.09	19.14	19.06	19.00		
5	84QAM	1	12	19.02	19.15	19.24	19.00	19.11		
5	84QAM	1	24	19.08	19.17	19.24	19.02	19.12		
5	84QAM	12	0	19.22	19.18	19.19	19.12	19.04		
5	84QAM	12	7	19.03	19.03	19.16	19.05	19.06		
5	84QAM	12	13	19.04	19.14	19.16	19.02	19.01		
5	84QAM	25	0	19.19	19.07	19.23	19.08	19.25		
5	256QAM	1	0	19.14	19.19	19.23	19.07	19.09		
5	256QAM	1	12	19.21	19.13	19.24	19.13	19.02		
5	256QAM	1	24	19.06	19.06	19.24	19.13	19.08		
5	256QAM	12	0	19.14	19.01	19.12	19.03	19.13		
5	256QAM									



Band 42 Part96 Ant 2 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				43100	43340	43490			
Frequency (MHz)				3560	3575	3590			
20	QPSK	1	0	17.87	18.05	17.69	19.2	0	
20	QPSK	1	49	17.88	17.89	17.80			
20	QPSK	1	99	17.84	17.64	17.76	19.2	0	
20	QPSK	50	0	17.69	17.91	17.76			
20	QPSK	50	24	17.58	17.76	17.62	19.2	0	
20	QPSK	50	50	17.96	17.77	17.57			
20	QPSK	100	0	17.78	17.76	17.67	19.2	0	
20	16QAM	1	0	17.66	17.89	17.78			
20	16QAM	1	49	17.62	17.72	17.50	19.2	0	
20	16QAM	1	99	17.57	17.67	17.48			
20	16QAM	50	0	17.75	17.55	17.65	19.2	0	
20	16QAM	50	24	17.94	17.70	17.64			
20	16QAM	50	50	17.58	17.62	17.57	19.2	0	
20	16QAM	100	0	17.41	17.39	17.37			
20	64QAM	1	0	17.65	17.78	17.96	19.2	0	
20	64QAM	1	49	17.67	17.69	17.91			
20	64QAM	1	99	17.78	17.65	17.59	19.2	0	
20	64QAM	50	0	17.96	17.64	17.83			
20	64QAM	50	24	17.92	17.77	17.89	19.2	0	
20	64QAM	50	50	17.96	17.62	17.81			
20	64QAM	100	0	17.38	17.43	17.31	19.2	0	
20	256QAM	1	0	17.92	18.03	17.81			
20	256QAM	1	49	17.80	17.82	17.81	19	0.2	
20	256QAM	1	99	17.55	17.75	17.66			
20	256QAM	50	0	17.73	17.68	17.56	19	0.2	
20	256QAM	50	24	17.95	17.77	17.78			
20	256QAM	50	50	17.78	17.62	17.76	19	0.2	
20	256QAM	100	0	17.74	17.87	17.77			
Channel				43165	43340	43515			
Frequency (MHz)				3557.5	3575	3592.5			
15	QPSK	1	0	17.86	17.95	17.73	19.2	0	
15	QPSK	1	37	17.91	17.88	17.71			
15	QPSK	1	74	17.75	17.72	17.85	19.2	0	
15	QPSK	36	0	17.77	17.89	17.96			
15	QPSK	36	20	17.72	17.71	17.62	19.2	0	
15	QPSK	36	39	17.78	17.76	17.62			
15	QPSK	75	0	17.69	17.78	17.67	19.2	0	
15	16QAM	1	0	17.66	17.94	17.79			
15	16QAM	1	37	17.58	17.79	17.57	19.2	0	
15	16QAM	1	74	17.55	17.74	17.44			
15	16QAM	36	0	17.74	17.45	17.75	19.2	0	
15	16QAM	36	20	17.93	17.65	17.57			
15	16QAM	36	39	17.52	17.67	17.62	19.2	0	
15	16QAM	75	0	17.41	17.32	17.29			
15	64QAM	1	0	17.64	17.76	17.83	19.2	0	
15	64QAM	1	37	17.71	17.72	17.83			
15	64QAM	1	74	17.75	17.60	17.53	19.2	0	
15	64QAM	36	0	17.83	17.81	17.96			
15	64QAM	36	20	17.90	17.73	17.94	19.2	0	
15	64QAM	36	39	17.87	17.94	17.84			
15	64QAM	75	0	17.39	17.36	17.47	19	0.2	
15	256QAM	1	0	17.86	18.01	17.72			
15	256QAM	1	37	17.66	17.75	17.73	19	0.2	
15	256QAM	1	74	17.66	17.68	17.66			
15	256QAM	36	0	17.73	17.75	17.80	19	0.2	
15	256QAM	36	20	17.95	17.84	17.80			
15	256QAM	36	39	17.75	17.81	17.72	19	0.2	
15	256QAM	75	0	17.85	17.89	17.72			
Channel				43140	43340	43540			
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	17.88	17.85	17.70	19.2	0	
10	QPSK	1	25	17.86	17.83	17.83			
10	QPSK	1	49	17.71	17.77	17.78	19.2	0	
10	QPSK	25	0	17.71	17.90	17.83			
10	QPSK	25	12	17.70	17.80	17.58	19.2	0	
10	QPSK	25	25	17.84	17.72	17.66			
10	QPSK	50	0	17.77	17.90	17.68	19.2	0	
10	16QAM	1	0	17.60	17.92	17.86			
10	16QAM	1	25	17.73	17.82	17.55	19.2	0	
10	16QAM	1	49	17.58	17.72	17.52			
10	16QAM	25	0	17.77	17.59	17.67	19.2	0	
10	16QAM	25	12	17.94	17.72	17.57			
10	16QAM	25	25	17.63	17.59	17.58	19.2	0	
10	16QAM	50	0	17.43	17.41	17.37			
10	64QAM	1	0	17.65	17.75	17.96	19.2	0	
10	64QAM	1	25	17.79	17.72	17.94			
10	64QAM	1	49	17.78	17.65	17.59	19.2	0	
10	64QAM	25	0	17.91	17.68	17.87			
10	64QAM	25	12	17.87	17.82	17.93	19.2	0	
10	64QAM	25	25	17.90	17.96	17.76			
10	64QAM	50	0	17.47	17.34	17.28	19	0.2	
10	256QAM	1	0	17.97	17.83	17.78			
10	256QAM	1	25	17.72	17.84	17.81	19	0.2	
10	256QAM	1	49	17.54	17.69	17.60			
10	256QAM	25	0	17.79	17.72	17.55	19	0.2	
10	256QAM	25	12	18.00	17.78	17.68			
10	256QAM	25	25	17.81	17.82	17.60	19	0.2	
10	256QAM	50	0	17.74	17.93	17.71			
Channel				43115	43340	43565			
Frequency (MHz)				3523.5	3575	3597.5			
5	QPSK	1	0	17.77	17.53	17.68	19.2	0	
5	QPSK	1	12	17.92	17.88	17.72			
5	QPSK	1	24	17.79	17.69	17.84	19.2	0	
5	QPSK	12	0	17.73	17.89	17.77			
5	QPSK	12	7	17.59	17.81	17.68	19.2	0	
5	QPSK	12	13	17.77	17.73	17.63			
5	QPSK	25	0	17.68	17.89	17.70	19.2	0	
5	16QAM	1	0	17.56	17.67	17.52			
5	16QAM	1	12	17.68	17.77	17.47	19.2	0	
5	16QAM	1	24	17.54	17.66	17.51			
5	16QAM	12	0	17.75	17.58	17.70	19.2	0	
5	16QAM	12	7	17.90	17.73	17.57			
5	16QAM	12	13	17.55	17.61	17.55	19.2	0	
5	16QAM	25	0	17.35	17.27	17.47			
5	64QAM	1	0	17.59	17.75	17.96	19.2	0	
5	64QAM	1	12	17.77	17.72	17.86			
5	64QAM	1	24	17.79	17.61	17.54	19.2	0	
5	64QAM	12	0	17.86	17.68	17.84			
5	64QAM	12	7	17.89	17.79	17.91	19.2	0	
5	64QAM	12	13	17.88	17.86	17.88			
5	64QAM	25	0	17.57	17.28	17.21	19	0.2	
5	256QAM	1	0	17.84	17.81	17.76			
5	256QAM	1	12	17.65	17.74	17.68	19	0.2	
5	256QAM	1	24	17.66	17.65	17.67			
5	256QAM	12	0	17.75	17.72	17.56	19	0.2	
5	256QAM	12	7	17.89	17.83	17.72			
5	256QAM	12	13	17.73	17.80	17.72	19	0.2	
5	256QAM	25	0	17.86	17.91	17.88			

Band 42 Part27Q Ant 2 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				42100	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	17.99	18.11	17.88	19.2	0	
20	QPSK	1	49	18.05	18.05	17.94			
20	QPSK	1	99	17.95	17.88	18.00	19.2	0	
20	QPSK	50	0	17.87	18.10	17.99			
20	QPSK	50	24	17.83	17.81	17.83	19.2	0	
20	QPSK	50	50	17.97	17.83	17.76			
20	QPSK	100	0	17.92	18.01	17.86	19.2	0	
20	16QAM	1	0	17.79	18.10	17.97			
20	16QAM	1	49	17.83	17.92	17.68	19.2	0	
20	16QAM	1	99	17.77	17.87	17.67			
20	16QAM	50	0	17.88	17.69	17.87	19.2	0	
20	16QAM	50	24	18.05	17.85	17.80			
20	16QAM	50	50	17.75	17.80	17.75	19.2	0	
20	16QAM	100	0	17.25	17.29	17.28			
20	64QAM	1	0	17.82	17.94	18.07	19.2	0	
20	64QAM	1	49	17.91	17.92	18.05			
20	64QAM	1	99	17.94	17.82	17.75	19.2	0	
20	64QAM	50	0	18.07	17.85	18.03			
20	64QAM								



Band 43 Ant 2 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				4390	4390	4490				
Frequency (MHz)				3610	3650	3690				
20	QPSK	1	0	18.05	18.09	17.85	19.2	0		
20	QPSK	1	49	17.75	17.77	17.97				
20	QPSK	1	99	18.06	17.97	17.90	19.2	0		
20	QPSK	50	0	17.74	18.08	17.95				
20	QPSK	50	24	17.67	18.05	17.92	19.2	0		
20	QPSK	50	50	17.95	17.97	17.73				
20	QPSK	100	0	17.94	17.99	17.84	19.2	0		
20	16QAM	1	0	17.72	17.74	17.56				
20	16QAM	1	49	17.80	17.79	17.88	19.2	0		
20	16QAM	1	99	17.86	17.88	17.74				
20	16QAM	50	0	17.53	17.59	17.46	19.2	0		
20	16QAM	50	24	17.70	17.79	17.69				
20	16QAM	50	50	17.67	17.50	17.57	19.2	0		
20	16QAM	100	0	17.81	17.97	17.80				
20	64QAM	1	0	17.78	17.87	18.06	19.2	0		
20	64QAM	1	49	17.85	17.77	17.82				
20	64QAM	1	99	17.74	17.84	17.94	19.2	0		
20	64QAM	50	0	17.49	17.52	17.54				
20	64QAM	50	24	17.49	17.63	17.49	19.2	0		
20	64QAM	50	50	17.40	17.59	17.66				
20	64QAM	100	0	17.73	17.95	17.63	19.2	0		
20	256QAM	1	0	17.63	17.57	17.75				
20	256QAM	1	49	17.59	17.81	17.51	18.4	0.8		
20	256QAM	1	99	17.56	17.66	17.78				
20	256QAM	50	0	17.49	17.70	17.42	18.4	0.8		
20	256QAM	50	24	17.72	17.59	17.69				
20	256QAM	50	50	17.45	17.70	17.70	18.4	0.8		
20	256QAM	100	0	17.93	17.58	17.82				
Channel				4365	4390	4415				
Frequency (MHz)				3607.5	3650	3692.5				
15	QPSK	1	0	18.07	18.02	17.76	19.2	0		
15	QPSK	1	37	17.80	17.60	17.93				
15	QPSK	1	74	17.73	17.59	17.84	19.2	0		
15	QPSK	36	0	17.25	17.59	17.72				
15	QPSK	36	20	17.54	17.79	17.73	19.2	0		
15	QPSK	36	39	17.53	17.82	17.80				
15	QPSK	75	0	17.93	17.82	17.64	19.2	0		
15	16QAM	1	0	17.42	17.47	17.46				
15	16QAM	1	37	17.67	17.57	17.61	19.2	0		
15	16QAM	1	74	17.65	17.74	17.61				
15	16QAM	36	0	17.25	17.54	17.26	19.2	0		
15	16QAM	36	20	17.40	17.52	17.51				
15	16QAM	36	39	17.53	17.41	17.37	19.2	0		
15	16QAM	75	0	17.64	17.63	17.50				
15	64QAM	1	0	17.76	17.64	17.83	19.2	0		
15	64QAM	1	37	17.78	17.58	17.95				
15	64QAM	1	74	17.67	17.83	17.63	19.2	0		
15	64QAM	36	0	17.47	17.57	17.37				
15	64QAM	36	20	17.46	17.51	17.26	19.2	0		
15	64QAM	36	39	17.22	17.34	17.60				
15	64QAM	75	0	17.46	17.66	17.70	19.2	0		
15	256QAM	1	0	17.40	17.42	17.45				
15	256QAM	1	37	17.27	17.56	17.36	18.4	0.8		
15	256QAM	1	74	17.67	17.67	17.61				
15	256QAM	36	0	17.31	17.40	17.29	18.4	0.8		
15	256QAM	36	20	17.30	17.32	17.56				
15	256QAM	36	39	17.31	17.63	17.49	18.4	0.8		
15	256QAM	75	0	17.53	17.46	17.65				
Channel				4340	4390	4440				
Frequency (MHz)				3605	3650	3695				
10	QPSK	1	0	17.96	18.04	17.83	19.2	0		
10	QPSK	1	25	17.67	17.91	17.91				
10	QPSK	1	49	17.85	17.78	17.95	19.2	0		
10	QPSK	25	0	17.65	17.98	17.58				
10	QPSK	25	12	17.52	17.79	17.84	19.2	0		
10	QPSK	25	25	17.71	17.77	17.67				
10	QPSK	50	0	17.95	17.84	17.81	19.2	0		
10	16QAM	1	0	17.42	17.54	17.53				
10	16QAM	1	25	17.63	17.66	17.67	19.2	0		
10	16QAM	1	49	17.84	17.86	17.77				
10	16QAM	25	0	17.38	17.58	17.27	19.2	0		
10	16QAM	25	12	17.31	17.70	17.38				
10	16QAM	25	25	17.44	17.40	17.49	19.2	0		
10	16QAM	50	0	17.73	17.70	17.52				
10	64QAM	1	0	17.81	17.70	17.77	19.2	0		
10	64QAM	1	25	17.62	17.66	17.78				
10	64QAM	1	49	17.84	17.94	17.70	19.2	0		
10	64QAM	25	0	17.29	17.51	17.22				
10	64QAM	25	12	17.23	17.47	17.24	19.2	0		
10	64QAM	25	25	17.21	17.25	17.57				
10	64QAM	50	0	17.63	17.79	17.63	19.2	0		
10	256QAM	1	0	17.41	17.54	17.40				
10	256QAM	1	25	17.34	17.49	17.46	18.4	0.8		
10	256QAM	1	49	17.66	17.72	17.45				
10	256QAM	25	0	17.40	17.57	17.32	18.4	0.8		
10	256QAM	25	12	17.33	17.33	17.57				
10	256QAM	25	25	17.36	17.51	17.64	18.4	0.8		
10	256QAM	50	0	17.72	17.35	17.70				
Channel				4315	4390	4465				
Frequency (MHz)				3602.5	3650	3697.5				
5	QPSK	1	0	18.07	18.01	17.81	19.2	0		
5	QPSK	1	12	17.81	17.63	17.93				
5	QPSK	1	24	17.86	17.65	18.00	19.2	0		
5	QPSK	12	0	17.78	17.97	17.63				
5	QPSK	12	7	17.53	17.92	17.71	19.2	0		
5	QPSK	12	13	17.62	17.76	17.65				
5	QPSK	25	0	17.96	17.81	17.79	19.2	0		
5	16QAM	1	0	17.49	17.47	17.49				
5	16QAM	1	12	17.66	17.74	17.58	19.2	0		
5	16QAM	1	24	17.68	17.68	17.60				
5	16QAM	12	0	17.26	17.58	17.22	19.2	0		
5	16QAM	12	7	17.40	17.48	17.33				
5	16QAM	12	13	17.47	17.33	17.40	19.2	0		
5	16QAM	25	0	17.82	17.72	17.57				
5	64QAM	1	0	17.79	17.66	17.96	19.2	0		
5	64QAM	1	12	17.81	17.62	17.75				
5	64QAM	1	24	17.60	17.72	17.78	19.2	0		
5	64QAM	12	0	17.46	17.67	17.29				
5	64QAM	12	7	17.44	17.47	17.36	19.2	0		
5	64QAM	12	13	17.21	17.24	17.55				
5	64QAM	25	0	17.62	17.73	17.46	19.2	0		
5	256QAM	1	0	17.56	17.52	17.56				
5	256QAM	1	12	17.43	17.54	17.32	18.4	0.8		
5	256QAM	1	24	17.64	17.62	17.61				
5	256QAM	12	0	17.31	17.60	17.42	18.4	0.8		
5	256QAM	12	7	17.25	17.51	17.59				
5	256QAM	12	13	17.24	17.43	17.60	18.4	0.8		
5	256QAM	25	0	17.55	17.42	17.57				

Band 48 Ant 2 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				5530	5530	5610				
Frequency (MHz)				3600	3609	3641				
20	QPSK	1	0	18.24	18.31	17.95	19.2	0		
20	QPSK	1	49	18.01	17.99	17.92				
20	QPSK	1	99	18.10	18.09	17.96	19.2	0		
20	QPSK	50	0	17.97	18.16	18.02				
20	QPSK	50	24	17.88	18.15	17.86	19.2	0		
20	QPSK	50	50	18.00	18.08	18.12				
20	QPSK	100	0	18.18	18.05	17.90	19.2	0		
20	16QAM	1	0	17.81	17.92	17.96				
20	16QAM	1	49	17.90	18.00	17.87	19.2	0		
20	16QAM	1	99	17.92	17.98	17.99				
20	16QAM	50	0	17.64	17.84	17.68	19.2	0		
20	16QAM	50	24	17.75	17.93	17.76				
20	16QAM	50	50	17.84	17.76	17.88	19.2	0		
20	16QAM	100	0	18.04	18.03	17.95				
20	64QAM	1	0	17.99	18.08	17.99	19.2	0		
20	64QAM	1	49							

Reduced Power for DSI 4

Band 42 Part96 Ant2 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				43190	43340	43490			
Frequency (MHz)				3560	3575	3590			
20	QPSK	1	0	21.27	21.55	21.16	22.5	0	
20	QPSK	1	49	21.32	21.33	21.17			
20	QPSK	1	99	21.21	21.25	21.17			
20	QPSK	50	0	21.33	21.37	21.29	22	0.5	
20	QPSK	50	24	21.18	21.40	21.18			
20	QPSK	50	50	21.16	21.24	21.24			
20	QPSK	100	0	20.30	20.33	20.29	22	0.5	
20	16QAM	1	0	21.13	21.26	21.17			
20	16QAM	1	49	21.14	21.19	21.08			
20	16QAM	1	99	21.01	21.23	21.04	21.5	1	
20	16QAM	50	0	21.36	21.12	21.21			
20	16QAM	50	24	21.29	21.22	21.28			
20	16QAM	50	50	21.08	21.20	21.01	22	0.5	
20	16QAM	100	0	19.56	19.90	19.52			
20	64QAM	1	0	21.25	21.40	21.35			
20	64QAM	1	49	21.39	21.29	21.28	20.5	2	
20	64QAM	1	99	21.08	21.25	21.11			
20	64QAM	50	0	20.24	20.15	19.98			
20	64QAM	50	24	20.19	20.04	20.18	19	3.5	
20	64QAM	50	50	20.12	20.34	20.12			
20	64QAM	100	0	18.66	18.56	18.73			
20	256QAM	1	0	18.31	18.37	18.33	19	3.5	
20	256QAM	1	49	18.27	18.34	18.20			
20	256QAM	1	99	18.13	18.27	18.10			
20	256QAM	50	0	18.19	18.30	18.16	19	3.5	
20	256QAM	50	24	18.37	18.33	18.32			
20	256QAM	50	50	18.14	18.21	18.15			
20	256QAM	100	0	18.32	18.37	18.32			
Channel				43165	43340	43515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3572.5	3575	3592.5			
15	QPSK	1	0	21.31	21.45	21.16	22.5	0	
15	QPSK	1	37	21.26	21.23	21.20			
15	QPSK	1	74	21.19	21.29	21.17			
15	QPSK	36	0	21.23	21.37	21.21	22	0.5	
15	QPSK	36	20	21.28	21.29	21.22			
15	QPSK	36	39	21.13	21.31	21.15			
15	QPSK	75	0	20.34	20.28	20.21	22	0.5	
15	16QAM	1	0	21.19	21.24	21.24			
15	16QAM	1	37	21.09	21.27	21.17			
15	16QAM	1	74	21.10	21.19	21.01	21.5	1	
15	16QAM	36	0	21.35	21.11	21.20			
15	16QAM	36	20	21.29	21.19	21.20			
15	16QAM	36	39	21.14	21.18	21.03	22	0.5	
15	16QAM	75	0	21.36	21.40	21.31			
15	64QAM	1	0	21.20	21.33	21.36			
15	64QAM	1	37	21.27	21.43	21.27	20.5	2	
15	64QAM	1	74	21.20	21.28	21.14			
15	64QAM	36	0	20.24	20.02	20.00			
15	64QAM	36	20	20.21	20.02	20.08	19	3.5	
15	64QAM	36	39	20.18	20.29	20.11			
15	64QAM	75	0	20.33	20.48	20.45			
15	256QAM	1	0	18.39	18.36	18.35	19	3.5	
15	256QAM	1	37	18.19	18.42	18.24			
15	256QAM	1	74	18.19	18.20	18.13			
15	256QAM	36	0	18.15	18.30	18.25	19	3.5	
15	256QAM	36	20	18.28	18.30	18.29			
15	256QAM	36	39	18.20	18.29	18.16			
15	256QAM	75	0	18.22	18.32	18.29			
Channel				43140	43340	43540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	21.23	21.49	21.21	22.5	0	
10	QPSK	1	25	21.32	21.25	21.24			
10	QPSK	1	49	21.25	21.35	21.25			
10	QPSK	25	0	21.32	21.42	21.32	22	0.5	
10	QPSK	25	12	21.29	21.31	21.32			
10	QPSK	25	25	21.20	21.23	21.13			
10	QPSK	50	0	20.22	20.38	20.29	22	0.5	
10	16QAM	1	0	21.14	21.27	21.27			
10	16QAM	1	25	21.13	21.19	21.16			
10	16QAM	1	49	21.09	21.15	21.00	21.5	1	
10	16QAM	25	0	21.37	21.15	21.14			
10	16QAM	25	12	21.26	21.14	21.15			
10	16QAM	25	25	21.00	21.24	21.08	22	0.5	
10	16QAM	50	0	21.30	21.46	21.26			
10	64QAM	1	0	21.25	21.26	21.27			
10	64QAM	1	25	21.30	21.39	21.28	20.5	2	
10	64QAM	1	49	21.22	21.23	21.18			
10	64QAM	25	0	20.12	20.06	20.00			
10	64QAM	25	12	20.22	20.01	20.14	19	3.5	
10	64QAM	25	25	20.20	20.28	20.09			
10	64QAM	50	0	20.43	20.50	20.40			
10	256QAM	1	0	18.38	18.47	18.34	19	3.5	
10	256QAM	1	25	18.29	18.31	18.14			
10	256QAM	1	49	18.19	18.29	18.21			
10	256QAM	25	0	18.21	18.28	18.26	19	3.5	
10	256QAM	25	12	18.37	18.42	18.38			
10	256QAM	25	25	18.14	18.30	18.20			
10	256QAM	50	0	18.31	18.42	18.27			
Channel				43115	43340	43565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3522.5	3575	3597.5			
5	QPSK	1	0	21.32	21.43	21.24	22.5	0	
5	QPSK	1	12	21.26	21.33	21.22			
5	QPSK	1	24	21.12	21.28	21.23			
5	QPSK	12	0	21.29	21.35	21.28	22	0.5	
5	QPSK	12	7	21.23	21.39	21.26			
5	QPSK	12	13	21.22	21.32	21.16			
5	QPSK	25	0	20.33	20.35	20.35	22	0.5	
5	16QAM	1	0	21.13	21.33	21.24			
5	16QAM	1	12	21.13	21.31	21.14			
5	16QAM	1	24	21.05	21.22	21.09	21.5	1	
5	16QAM	12	0	21.35	21.14	21.14			
5	16QAM	12	7	21.24	21.16	21.17			
5	16QAM	12	13	21.10	21.23	21.07	22	0.5	
5	16QAM	25	0	21.29	21.40	21.34			
5	64QAM	1	0	21.24	21.25	21.22			
5	64QAM	1	12	21.36	21.31	21.38	20.5	2	
5	64QAM	1	24	21.23	21.27	21.19			
5	64QAM	12	0	20.18	20.11	20.06			
5	64QAM	12	7	20.19	20.09	20.12	19	3.5	
5	64QAM	12	13	20.09	20.30	20.19			
5	64QAM	25	0	20.39	20.49	20.39			
5	256QAM	1	0	18.27	18.45	18.35	19	3.5	
5	256QAM	1	12	18.19	18.36	18.16			
5	256QAM	1	24	18.11	18.16	18.09			
5	256QAM	12	0	18.19	18.27	18.19	19	3.5	
5	256QAM	12	7	18.28	18.30	18.34			
5	256QAM	12	13	18.21	18.33	18.09			
5	256QAM	25	0	18.24	18.36	18.33			

Band 42 Part27Q Ant2 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	21.45	21.65	21.39	22.5	0	
20	QPSK	1	49	21.43	21.47	21.37			
20	QPSK	1	99	21.36	21.49	21.40			
20	QPSK	50	0	21.43	21.54	21.42	22	0.5	
20	QPSK	50	24	21.41	21.50	21.42			
20	QPSK	50	50	21.38	21.42	21.36			
20	QPSK	100	0	20.45	20.51	20.45	22	0.5	
20	16QAM	1	0	21.35	21.49	21.39			
20	16QAM	1	49	21.30	21.42	21.29			
20	16QAM	1	99	21.23	21.37	21.22	21.5	1	
20	16QAM	50	0	21.48	21.30	21.36			
20	16QAM	50	24	21.46	21.32	21.40			
20	16QAM	50	50	21.24	21.39	21.24	22	0.5	
20	16QAM	100	0	19.66	19.51	19.67			
20	64QAM	1	0	21.37	21.50	21.46			
20	64QAM	1	49	21.50	21.54	21.50	20.5	2	
20	64QAM	1	99	21.33	21.44	21.31			
20	64QAM	50	0	20.36	20.26	20.22			
20	64QAM	50	24	20.40	20.24	20.31	19	3.5	
20	64QAM	50	50	20.33	20.44	20.30			
20	64QAM	100	0	18.55	18.50	18.67			
20	256QAM	1	0	18.51	18.58	18.52	19	3.5	
20	256QAM	1	49	18.42	18.53	18.39			
20	256QAM	1	99	18.30	18.39	18.31			
20	256QAM	50	0	18.38	18.52	18.38			

Band 43 Ant2 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				43590	43990	44390		
Frequency (MHz)				3610	3650	3690		
20	QPSK	1	0	21.56	21.72	21.64	22.5	0
20	QPSK	1	49	21.53	21.57	21.42		
20	QPSK	1	99	21.56	21.60	21.54		
20	QPSK	50	0	21.62	21.68	21.64	22	0.5
20	QPSK	50	24	21.61	21.66	21.54		
20	QPSK	50	50	21.55	21.61	21.53		
20	QPSK	100	0	20.53	20.62	20.50	22	0.5
20	16QAM	1	0	21.48	21.55	21.47		
20	16QAM	1	49	21.50	21.57	21.44		
20	16QAM	1	99	21.46	21.60	21.51	21.5	1
20	16QAM	50	0	21.40	21.44	21.33		
20	16QAM	50	24	21.34	21.43	21.38		
20	16QAM	50	60	21.38	21.45	21.30	22	0.5
20	16QAM	100	0	19.56	19.63	19.58		
20	64QAM	1	0	21.57	21.65	21.52		
20	64QAM	1	49	21.55	21.63	21.52	20.5	2
20	64QAM	1	99	21.60	21.66	21.61		
20	64QAM	50	0	20.40	20.46	20.36		
20	64QAM	50	24	20.33	20.46	20.36	19	3.5
20	64QAM	50	60	20.44	20.48	20.36		
20	64QAM	100	0	18.57	18.64	18.53		
20	256QAM	1	0	18.43	18.47	18.35	19	3.5
20	256QAM	1	49	18.44	18.58	18.48		
20	256QAM	1	99	18.36	18.48	18.39		
20	256QAM	50	0	18.52	18.62	18.51	19	3.5
20	256QAM	50	24	18.57	18.64	18.57		
20	256QAM	50	50	18.48	18.63	18.55		
20	256QAM	100	0	18.52	18.60	18.54		
Channel				43595	43990	44415	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3607.5	3650	3692.5		
15	QPSK	1	0	21.54	21.67	21.60	22.5	0
15	QPSK	1	37	21.33	21.44	21.45		
15	QPSK	1	74	21.37	21.57	21.47		
15	QPSK	36	0	21.49	21.58	21.48	22	0.5
15	QPSK	36	20	21.48	21.55	21.47		
15	QPSK	36	39	21.48	21.53	21.37		
15	QPSK	75	0	21.45	21.55	21.42	22	0.5
15	16QAM	1	0	21.45	21.41	21.39		
15	16QAM	1	37	21.44	21.46	21.33		
15	16QAM	1	74	21.42	21.56	21.41	21.5	1
15	16QAM	36	0	21.21	21.34	21.25		
15	16QAM	36	20	21.28	21.36	21.28		
15	16QAM	36	39	21.31	21.34	21.30	22	0.5
15	16QAM	75	0	21.23	21.39	21.26		
15	16QAM	1	0	21.48	21.56	21.47		
15	64QAM	1	37	21.45	21.59	21.46	20.5	2
15	64QAM	1	74	21.48	21.59	21.47		
15	64QAM	36	0	20.32	20.34	20.25		
15	64QAM	36	20	20.19	20.41	20.25	19	3.5
15	64QAM	36	39	20.34	20.44	20.33		
15	64QAM	75	0	20.26	20.37	20.28		
15	256QAM	1	0	18.25	18.34	18.31	19	3.5
15	256QAM	1	37	18.43	18.54	18.43		
15	256QAM	1	74	18.28	18.45	18.32		
15	256QAM	36	0	18.39	18.51	18.46	19	3.5
15	256QAM	36	20	18.40	18.55	18.54		
15	256QAM	36	39	18.39	18.50	18.36		
15	256QAM	75	0	18.48	18.55	18.44		
Channel				43540	43990	44440	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3695	3695	3695		
10	QPSK	1	0	21.53	21.59	21.49	22.5	0
10	QPSK	1	25	21.37	21.51	21.45		
10	QPSK	1	49	21.41	21.53	21.52		
10	QPSK	25	0	21.46	21.55	21.49	22	0.5
10	QPSK	25	12	21.46	21.61	21.41		
10	QPSK	25	25	21.41	21.52	21.45		
10	QPSK	50	0	21.51	21.54	21.42	22	0.5
10	16QAM	1	0	21.35	21.44	21.43		
10	16QAM	1	25	21.47	21.52	21.42		
10	16QAM	1	49	21.41	21.55	21.49	21.5	1
10	16QAM	25	0	21.16	21.31	21.17		
10	16QAM	25	12	21.21	21.39	21.32		
10	16QAM	25	25	21.36	21.39	21.28	20.5	2
10	16QAM	50	0	21.23	21.32	21.28		
10	64QAM	1	0	21.40	21.59	21.53		
10	64QAM	1	25	21.50	21.53	21.49	22	0.5
10	64QAM	1	49	21.49	21.56	21.54		
10	64QAM	25	0	20.27	20.31	20.21		
10	64QAM	25	12	20.17	20.39	20.22	20.5	2
10	64QAM	25	25	20.31	20.34	20.34		
10	64QAM	50	0	20.50	20.50	20.44		
10	256QAM	1	0	18.26	18.38	18.27	19	3.5
10	256QAM	1	25	18.40	18.43	18.39		
10	256QAM	1	49	18.32	18.38	18.24		
10	256QAM	25	0	18.37	18.56	18.45	19	3.5
10	256QAM	25	12	18.41	18.52	18.56		
10	256QAM	25	25	18.41	18.54	18.41		
10	256QAM	50	0	18.52	18.47	18.41		
Channel				43515	43990	44465	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3602.5	3650	3697.5		
5	QPSK	1	0	21.54	21.63	21.57	22.5	0
5	QPSK	1	12	21.41	21.51	21.37		
5	QPSK	1	24	21.39	21.56	21.45		
5	QPSK	12	0	21.46	21.64	21.45	22	0.5
5	QPSK	12	7	21.52	21.57	21.41		
5	QPSK	12	13	21.41	21.54	21.46		
5	QPSK	25	0	21.49	21.59	21.43	22	0.5
5	16QAM	1	0	21.45	21.40	21.34		
5	16QAM	1	12	21.41	21.45	21.41		
5	16QAM	1	24	21.43	21.56	21.42	21.5	1
5	16QAM	12	0	21.18	21.31	21.18		
5	16QAM	12	7	21.25	21.38	21.28		
5	16QAM	12	13	21.26	21.38	21.24	20.5	2
5	16QAM	25	0	21.32	21.33	21.22		
5	64QAM	1	0	21.38	21.57	21.53		
5	64QAM	1	12	21.47	21.54	21.51	22	0.5
5	64QAM	1	24	21.52	21.58	21.49		
5	64QAM	12	0	20.33	20.32	20.26		
5	64QAM	12	7	20.34	20.34	20.22	20.5	2
5	64QAM	12	13	20.31	20.35	20.37		
5	64QAM	25	0	20.28	20.41	20.24		
5	256QAM	1	0	18.27	18.33	18.37	19	3.5
5	256QAM	1	12	18.38	18.47	18.46		
5	256QAM	1	24	18.30	18.33	18.32		
5	256QAM	12	0	18.42	18.53	18.46	19	3.5
5	256QAM	12	7	18.45	18.50	18.56		
5	256QAM	12	13	18.46	18.51	18.42		
5	256QAM	25	0	18.45	18.54	18.45		

Band 48 Ant2 DSI4

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)				3590	3609	3641	3690		
20	QPSK	1	0	21.83	21.85	21.64	21.72	22.5	0
20	QPSK	1	49	21.66	21.69	21.62	21.61		
20	QPSK	1	99	21.63	21.73	21.69	21.69		
20	QPSK	50	0	21.65	21.75	21.69	21.64	22	0.5
20	QPSK	50	24	21.61	21.73	21.63	21.68		
20	QPSK	50	50	21.68	21.71	21.66	21.66		
20	QPSK	100	0	20.70	20.74	20.69	20.62	22	0.5
20	16QAM	1	0	21.54	21.63	21.54	21.50		
20	16QAM	1	49	21.57	21.68	21.62	21.64		
20	16QAM	1	99	21.49	21.60	21.55	21.46	21.5	1
20	16QAM	50	0	21.32	21.46	21.38	21.34		
20	16QAM	50	24	21.33	21.47	21.35	21.35		
20	16QAM	50	50	21.37	21.39	21.36	21.29	22	0.5
20	16QAM	100	0	19.69	19.76	19.63	19.63		
20	64QAM	1	0	21.66	21.74	21.59	21.66		
20	64QAM	1	49	21.63	21.68	21.54	21.58	20.5	2
20	64QAM	1	99	21.65	21.70	21.62	21.65		
20	64QAM	50	0	20.28	20.46	20.32	20.35		
20	64QAM	50	24	20.24	20.35	20.30	20.27	19	3.5
20	64QAM	50	60	20.26	20.32	20.21	20.31		
20	64QAM	100	0	18.76	18.80	18.73	18.71		
20	256QAM	1	0	18.72	18.78	18.69	18.72	19	3.5
20	256QAM	1	49	18.64	18.69	18.59	18.54		
20	256QAM	1	99	18.59	18.72	18.62	18.66		



Reduced Power for DSI 6

GSM850 ANT0 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	150	160	251		150	160	251	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4
GSM 1 Tx slot	32.66	32.75	32.55	33.50	23.06	23.75	23.55	24.50
GPRS 1 Tx slot	32.56	32.74	32.43	33.50	23.56	23.74	23.43	24.50
GPRS 2 Tx slots	29.78	29.98	29.66	31.00	23.78	23.98	23.66	25.00
GPRS 3 Tx slots	28.12	28.11	27.94	29.00	23.86	23.85	23.68	24.74
GPRS 4 Tx slots	26.63	26.78	26.37	27.00	23.63	23.76	23.37	24.00
EDGE 1 Tx slot	25.74	25.82	25.82	26.50	16.74	16.82	16.82	17.50
EDGE 2 Tx slots	24.06	24.16	23.93	25.00	18.06	18.16	17.93	19.00
EDGE 3 Tx slots	22.77	22.82	22.59	23.50	18.51	18.56	18.33	19.24
EDGE 4 Tx slots	20.76	20.80	20.65	22.00	17.76	17.80	17.65	19.00

GSM1900 ANT0 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)	1500.2	1650	1920.3	1500.2	1650	1920.3	1500.2	1650
GSM 1 Tx slot	28.00	28.04	27.91	28.70	19.00	19.04	18.91	19.70
GPRS 1 Tx slot	28.03	28.07	27.92	28.70	19.03	19.07	18.92	19.70
GPRS 2 Tx slots	24.57	24.76	24.75	25.70	18.57	18.76	18.75	19.70
GPRS 3 Tx slots	22.74	23.06	22.68	23.90	18.48	18.80	18.42	19.64
GPRS 4 Tx slots	21.45	21.68	21.61	22.70	18.45	18.68	18.61	19.70
EDGE 1 Tx slot	24.51	24.50	24.49	25.50	15.51	15.50	15.49	16.50
EDGE 2 Tx slots	22.91	22.85	22.74	24.00	16.91	16.85	16.74	18.00
EDGE 3 Tx slots	21.52	21.96	21.67	23.00	17.26	17.70	17.41	18.74
EDGE 4 Tx slots	19.44	19.68	19.38	20.50	16.44	16.68	16.39	17.50

Band	TX Channel	WCDMA 8 ANT0			Tune-up Limit (dBm)	WCDMA 4 ANT0			Tune-up Limit (dBm)	WCDMA 5 ANT0			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
3GPP Rel 99	AMR 12.2Kbps	21.39	21.44	21.27	22.90	21.25	21.36	21.30	22.70	23.07	23.16	23.02	24.00
3GPP Rel 99	RMC 12.2Kbps	21.51	21.52	21.33	22.90	21.33	21.48	21.43	22.70	23.26	23.32	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1	20.59	20.66	20.67	21.90	20.52	20.61	20.54	21.70	22.24	22.30	22.25	23.00
3GPP Rel 6	HSDPA Subtest-2	20.43	20.54	20.58	21.90	20.38	20.52	20.51	21.70	22.11	22.22	22.23	23.00
3GPP Rel 6	HSDPA Subtest-3	20.10	20.19	19.91	21.40	20.02	20.11	19.83	21.20	21.74	21.83	21.54	22.50
3GPP Rel 6	HSDPA Subtest-4	20.07	20.19	20.16	21.40	20.01	20.05	20.06	21.20	21.72	21.78	21.75	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	20.63	20.79	20.58	21.90	20.54	20.72	20.44	21.70	22.23	22.42	22.20	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	20.77	20.71	20.65	21.90	20.70	20.62	20.67	21.70	22.45	22.34	22.32	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	20.17	20.30	20.22	21.40	20.10	20.24	20.14	21.20	21.77	21.91	21.83	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	20.20	20.19	19.91	21.40	20.15	20.20	19.79	21.20	21.88	21.87	21.53	22.50
3GPP Rel 6	HSUPA Subtest-1	20.74	20.66	20.46	21.90	20.63	20.64	20.45	21.70	22.37	22.33	22.16	23.00
3GPP Rel 6	HSUPA Subtest-2	18.73	18.85	18.54	19.90	18.60	18.73	18.46	19.70	20.33	20.43	20.13	21.00
3GPP Rel 6	HSUPA Subtest-3	19.47	19.67	19.63	20.90	19.33	19.63	19.57	20.70	21.09	21.30	21.30	22.00
3GPP Rel 6	HSUPA Subtest-4	18.34	18.46	18.43	19.90	18.34	18.41	18.30	19.70	20.02	20.16	20.04	21.00
3GPP Rel 6	HSUPA Subtest-5	20.24	20.50	20.54	21.90	20.21	20.43	20.46	21.70	21.91	22.16	22.13	23.00



Band 2 Ant0 DS16									
BW (MHz)	Modulation	RB Size	RB Offset	Power (MHz)	Power (MHz)	Power (MHz)	Take-up (dB)	MPR (dB)	
Channel	Frequency (MHz)	1860	1860	1860	1860	1860			
20	QPSK	1	0	21.96	21.96	21.96			
20	QPSK	1	49	21.96	21.96	21.96	22.8	0	
20	QPSK	1	99	21.96	21.96	21.96			
20	QPSK	50	0	21.96	21.96	21.96			
20	QPSK	50	24	21.96	21.96	21.96	22.8	0	
20	QPSK	100	0	21.96	21.96	21.96			
20	QPSK	100	24	21.96	21.96	21.96	22.8	0	
20	QPSK	1	49	21.91	21.91	21.91			
20	QPSK	1	99	21.91	21.91	21.91	22.8	0	
20	QPSK	100	0	21.91	21.91	21.91			
20	QPSK	100	24	21.91	21.91	21.91	22.8	0	
20	QPSK	1	49	21.86	21.86	21.86			
20	QPSK	1	99	21.86	21.86	21.86	22.8	0	
20	QPSK	100	0	21.86	21.86	21.86			
20	QPSK	100	24	21.86	21.86	21.86	22.8	0	
20	QPSK	1	49	21.81	21.81	21.81			
20	QPSK	1	99	21.81	21.81	21.81	22.8	0	
20	QPSK	100	0	21.81	21.81	21.81			
20	QPSK	100	24	21.81	21.81	21.81	22.8	0	
20	QPSK	1	49	21.76	21.76	21.76			
20	QPSK	1	99	21.76	21.76	21.76	22.8	0	
20	QPSK	100	0	21.76	21.76	21.76			
20	QPSK	100	24	21.76	21.76	21.76	22.8	0	
20	QPSK	1	49	21.71	21.71	21.71			
20	QPSK	1	99	21.71	21.71	21.71	22.8	0	
20	QPSK	100	0	21.71	21.71	21.71			
20	QPSK	100	24	21.71	21.71	21.71	22.8	0	
20	QPSK	1	49	21.66	21.66	21.66			
20	QPSK	1	99	21.66	21.66	21.66	22.8	0	
20	QPSK	100	0	21.66	21.66	21.66			
20	QPSK	100	24	21.66	21.66	21.66	22.8	0	
20	QPSK	1	49	21.61	21.61	21.61			
20	QPSK	1	99	21.61	21.61	21.61	22.8	0	
20	QPSK	100	0	21.61	21.61	21.61			
20	QPSK	100	24	21.61	21.61	21.61	22.8	0	
20	QPSK	1	49	21.56	21.56	21.56			
20	QPSK	1	99	21.56	21.56	21.56	22.8	0	
20	QPSK	100	0	21.56	21.56	21.56			
20	QPSK	100	24	21.56	21.56	21.56	22.8	0	
20	QPSK	1	49	21.51	21.51	21.51			
20	QPSK	1	99	21.51	21.51	21.51	22.8	0	
20	QPSK	100	0	21.51	21.51	21.51			
20	QPSK	100	24	21.51	21.51	21.51	22.8	0	
20	QPSK	1	49	21.46	21.46	21.46			
20	QPSK	1	99	21.46	21.46	21.46	22.8	0	
20	QPSK	100	0	21.46	21.46	21.46			
20	QPSK	100	24	21.46	21.46	21.46	22.8	0	
20	QPSK	1	49	21.41	21.41	21.41			
20	QPSK	1	99	21.41	21.41	21.41	22.8	0	
20	QPSK	100	0	21.41	21.41	21.41			
20	QPSK	100	24	21.41	21.41	21.41	22.8	0	
20	QPSK	1	49	21.36	21.36	21.36			
20	QPSK	1	99	21.36	21.36	21.36	22.8	0	
20	QPSK	100	0	21.36	21.36	21.36			
20	QPSK	100	24	21.36	21.36	21.36	22.8	0	
20	QPSK	1	49	21.31	21.31	21.31			
20	QPSK	1	99	21.31	21.31	21.31	22.8	0	
20	QPSK	100	0	21.31	21.31	21.31			
20	QPSK	100	24	21.31	21.31	21.31	22.8	0	
20	QPSK	1	49	21.26	21.26	21.26			
20	QPSK	1	99	21.26	21.26	21.26	22.8	0	
20	QPSK	100	0	21.26	21.26	21.26			
20	QPSK	100	24	21.26	21.26	21.26	22.8	0	
20	QPSK	1	49	21.21	21.21	21.21			
20	QPSK	1	99	21.21	21.21	21.21	22.8	0	
20	QPSK	100	0	21.21	21.21	21.21			
20	QPSK	100	24	21.21	21.21	21.21	22.8	0	
20	QPSK	1	49	21.16	21.16	21.16			
20	QPSK	1	99	21.16	21.16	21.16	22.8	0	
20	QPSK	100	0	21.16	21.16	21.16			
20	QPSK	100	24	21.16	21.16	21.16	22.8	0	
20	QPSK	1	49	21.11	21.11	21.11			
20	QPSK	1	99	21.11	21.11	21.11	22.8	0	
20	QPSK	100	0	21.11	21.11	21.11			
20	QPSK	100	24	21.11	21.11	21.11	22.8	0	
20	QPSK	1	49	21.06	21.06	21.06			
20	QPSK	1	99	21.06	21.06	21.06	22.8	0	
20	QPSK	100	0	21.06	21.06	21.06			
20	QPSK	100	24	21.06	21.06	21.06	22.8	0	
20	QPSK	1	49	21.01	21.01	21.01			
20	QPSK	1	99	21.01	21.01	21.01	22.8	0	
20	QPSK	100	0	21.01	21.01	21.01			
20	QPSK	100	24	21.01	21.01	21.01	22.8	0	
20	QPSK	1	49	20.96	20.96	20.96			
20	QPSK	1	99	20.96	20.96	20.96	22.8	0	
20	QPSK	100	0	20.96	20.96	20.96			
20	QPSK	100	24	20.96	20.96	20.96	22.8	0	
20	QPSK	1	49	20.91	20.91	20.91			
20	QPSK	1	99	20.91	20.91	20.91	22.8	0	
20	QPSK	100	0	20.91	20.91	20.91			
20	QPSK	100	24	20.91	20.91	20.91	22.8	0	
20	QPSK	1	49	20.86	20.86	20.86			
20	QPSK	1	99	20.86	20.86	20.86	22.8	0	
20	QPSK	100	0	20.86	20.86	20.86			
20	QPSK	100	24	20.86	20.86	20.86	22.8	0	
20	QPSK	1	49	20.81	20.81	20.81			
20	QPSK	1	99	20.81	20.81	20.81	22.8	0	
20	QPSK	100	0	20.81	20.81	20.81			
20	QPSK	100	24	20.81	20.81	20.81	22.8	0	
20	QPSK	1	49	20.76	20.76	20.76			
20	QPSK	1	99	20.76	20.76	20.76	22.8	0	
20	QPSK	100	0	20.76	20.76	20.76			
20	QPSK	100	24	20.76	20.76	20.76	22.8	0	
20	QPSK	1	49	20.71	20.71	20.71			
20	QPSK	1	99	20.71	20.71	20.71	22.8	0	
20	QPSK	100	0	20.71	20.71	20.71			
20	QPSK	100	24	20.71	20.71	20.71	22.8	0	
20	QPSK	1	49	20.66	20.66	20.66			
20	QPSK	1	99	20.66	20.66	20.66	22.8	0	
20	QPSK	100	0	20.66	20.66	20.66			
20	QPSK	100	24	20.66	20.66	20.66	22.8	0	
20	QPSK	1	49	20.61	20.61	20.61			
20	QPSK	1	99	20.61	20.61	20.61	22.8	0	
20	QPSK	100	0	20.61	20.61	20.61			
20	QPSK	100	24	20.61	20.61	20.61	22.8	0	
20	QPSK	1	49	20.56	20.56	20.56			
20	QPSK	1	99	20.56	20.56	20.56	22.8	0	
20	QPSK	100	0	20.56	20.56	20.56			
20	QPSK	100	24	20.56	20.56	20.56	22.8	0	
20	QPSK	1	49	20.51	20.51	20.51			
20	QPSK	1	99	20.51	20.51	20.51	22.8	0	
20	QPSK	100	0	20.51	20.51	20.51			
20	QPSK	100	24	20.51	20.51	20.51	22.8	0	
20	QPSK	1	49	20.46	20.46	20.46			
20	QPSK	1	99	20.46	20.46	20.46	22.8	0	
20	QPSK	100	0	20.46	20.46	20.46			
20	QPSK	100	24	20.46	20.46	20.46	22.8	0	
20	QPSK	1	49	20.41	20.41	20.41			
20	QPSK	1	99	20.41	20.41	20.41	22.8	0	
20	QPSK	100	0	20.41	20.41	20.41			
20	QPSK	100	24	20.41	20.41	20.41	22.8	0	
20	QPSK	1	49	20.36	20.36	20.36			
20	QPSK	1	99	20.36	20.36	20.36	22.8	0	
20	QPSK	100	0	20.36	20.36	20.36			
20	QPSK	100	24	20.36	20.36	20.36	22.8	0	
20	QPSK	1	49	20.31	20.31	20.31			
20	QPSK	1	99	20.31	20.31	20.31	22.8	0	
20	QPSK	100	0	20.31	20.31	20.31			
20	QPSK	100	24	20.31	20.31	20.31	22.8	0	
20	QPSK	1	49	20.26	20.26	20.26			
20	QPSK	1	99	20.26	20.26	20.26	22.8	0	
20	QPSK	100	0	20.26	20.26	20.26			
20	QPSK	100	24	20.26	20.26	20.26	22.8	0	
20	QPSK	1	49	20.21	20.21	20.21			
20	QPSK	1	99	20.21	20.21	20.21	22.8	0	
20	QPSK	100	0	20.21	20.21	20.21			
20	QPSK	100	24	20.21	20.21	20.21	22.8	0	
20	QPSK	1	49	20.16	20.16	20.16			
20	QPSK	1	99	20.16	20.16	20.16	22.8	0	
20	QPSK	100	0	20.16	20.16	20.16			
20	QPSK	100	24	20.16	20.16	20.16	22.8	0	
20	QPSK	1	49	20.11	20.11	20.11			
20	QPSK	1	99	20.11	20.11	20.11	22		



Band 26 Ant0 DS16										
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up Int. (min)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.59	22.68	22.68				
15	QPSK	1	37	22.42	22.52	22.52	24	0		
15	QPSK	1	74	22.38	22.50	22.50				
15	QPSK	36	0	22.49	22.54	22.50				
15	QPSK	36	36	22.35	22.44	22.44				
15	QPSK	36	58	22.41	22.47	22.39	24	0		
15	QPSK	75	0	22.26	22.40	22.32				
15	16QAM	1	0	22.41	22.53	22.43				
15	16QAM	1	37	22.42	22.45	22.41	24	0		
15	16QAM	1	74	22.37	22.39	22.26				
15	16QAM	36	0	21.94	22.00	21.90				
15	16QAM	36	20	21.87	21.87	21.87	23.5	0.5		
15	16QAM	36	39	21.79	21.85	21.81				
15	16QAM	1	74	21.79	21.65	21.79				
15	16QAM	1	0	21.95	22.04	21.95				
15	16QAM	1	37	21.93	21.86	21.83	23.5	0.5		
15	16QAM	1	74	21.79	21.65	21.79				
15	16QAM	36	0	20.99	20.97	20.95				
15	16QAM	36	20	20.80	20.80	20.81	22.5	1.5		
15	16QAM	36	39	20.75	20.81	20.78				
15	16QAM	75	0	20.93	20.99	20.90				
15	256QAM	1	0	18.00	18.07	18.00				
15	256QAM	1	37	18.94	18.90	18.93	20.5	3.5		
15	256QAM	1	74	18.82	18.86	18.80				
15	256QAM	36	0	18.89	18.88	18.85				
15	256QAM	36	20	18.92	18.82	18.76	20.5	3.5		
15	256QAM	36	39	18.83	18.74	18.68				
15	256QAM	75	0	18.80	18.87	18.79				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.53	22.57	22.59				
10	QPSK	1	25	22.35	22.30	22.31	24	0		
10	QPSK	1	49	22.24	22.38	22.32				
10	QPSK	25	0	22.38	22.43	22.39				
10	QPSK	25	12	22.23	22.31	22.22	24	0		
10	QPSK	25	26	22.34	22.40	22.36				
10	QPSK	50	0	22.13	22.26	22.23				
10	16QAM	1	0	22.37	22.44	22.32				
10	16QAM	1	25	22.31	22.33	22.27	24	0		
10	16QAM	1	49	22.27	22.21	22.21				
10	16QAM	25	0	21.84	21.99	21.84				
10	16QAM	25	12	21.75	21.77	21.82	23.5	0.5		
10	16QAM	25	26	21.64	21.82	21.77				
10	16QAM	50	0	21.79	21.86	21.77				
10	16QAM	1	0	21.88	21.94	21.84				
10	16QAM	1	25	21.82	21.82	21.77	23.5	0.5		
10	16QAM	1	49	21.70	21.74	21.66				
10	16QAM	25	0	20.82	20.90	20.80				
10	16QAM	25	12	20.75	20.77	20.68	22.5	1.5		
10	16QAM	25	26	20.52	20.75	20.72				
10	16QAM	50	0	20.88	20.94	20.83				
10	256QAM	1	0	18.86	18.86	18.85				
10	256QAM	1	25	18.88	18.75	18.75	20.5	3.5		
10	256QAM	1	49	18.74	18.77	18.76				
10	256QAM	36	0	18.74	18.84	18.70				
10	256QAM	36	12	18.75	18.75	18.61	20.5	3.5		
10	256QAM	25	26	18.74	18.65	18.64				
10	256QAM	50	0	18.85	18.78	18.68				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.48	22.60	22.40				
5	QPSK	1	12	22.38	22.40	22.47	24	0		
5	QPSK	1	24	22.25	22.30	22.30				
5	QPSK	12	0	22.43	22.48	22.43				
5	QPSK	12	7	22.34	22.38	22.37				
5	QPSK	12	13	22.31	22.41	22.25	24	0		
5	QPSK	25	0	22.20	22.34	22.19				
5	16QAM	1	0	22.38	22.38	22.38				
5	16QAM	1	12	22.38	22.35	22.32	24	0		
5	16QAM	1	24	22.26	22.35	22.15				
5	16QAM	12	0	21.86	21.96	21.78				
5	16QAM	12	7	21.73	21.73	21.62	23.5	0.5		
5	16QAM	12	13	21.64	21.77	21.62				
5	16QAM	25	0	21.71	21.86	21.78				
5	16QAM	1	0	21.81	21.86	21.86				
5	16QAM	1	12	21.84	21.77	21.71	23.5	0.5		
5	16QAM	1	24	21.65	21.72	21.75				
5	16QAM	12	0	20.83	20.86	20.71				
5	16QAM	12	7	20.70	20.68	20.72	22.5	1.5		
5	16QAM	12	13	20.83	20.88	20.87				
5	16QAM	25	0	20.94	20.98	20.78				
5	256QAM	1	0	18.88	18.98	18.87				
5	256QAM	1	12	18.89	18.80	18.81	20.5	3.5		
5	256QAM	1	24	18.73	18.82	18.71				
5	256QAM	12	0	18.83	18.85	18.78				
5	256QAM	12	7	18.74	18.73	18.70	20.5	3.5		
5	256QAM	12	13	18.74	18.65	18.64				
5	256QAM	25	0	18.66	18.78	18.76				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.55	22.53	22.57				
3	QPSK	1	8	22.39	22.37	22.31	24	0		
3	QPSK	1	14	22.29	22.41	22.26				
3	QPSK	8	0	22.42	22.48	22.46				
3	QPSK	8	4	22.30	22.31	22.20	24	0		
3	QPSK	8	7	22.32	22.34	22.26				
3	QPSK	15	0	22.12	22.37	22.17				
3	16QAM	1	0	22.36	22.44	22.34				
3	16QAM	1	8	22.30	22.40	22.27	24	0		
3	16QAM	1	14	22.31	22.28	22.14				
3	16QAM	8	0	21.82	21.96	21.79				
3	16QAM	8	4	21.94	21.78	21.78	23.5	0.5		
3	16QAM	8	7	21.71	21.76	21.73				
3	16QAM	15	0	21.74	21.82	21.85				
3	16QAM	1	0	21.90	22.00	21.87				
3	16QAM	1	8	21.78	21.81	21.68	23.5	0.5		
3	16QAM	1	14	21.65	21.70	21.68				
3	16QAM	8	0	20.78	20.83	20.78				
3	16QAM	8	4	20.66	20.68	20.70	22.5	1.5		
3	16QAM	8	7	20.64	20.68	20.65				
3	16QAM	15	0	20.83	20.94	20.81				
3	256QAM	1	0	18.94	19.00	18.94				
3	256QAM	1	8	18.83	18.85	18.80	20.5	3.5		
3	256QAM	1	14	18.74	18.82	18.71				
3	256QAM	8	0	18.84	18.90	18.81				
3	256QAM	8	4	18.77	18.68	18.64	20.5	3.5		
3	256QAM	8	7	18.78	18.66	18.63				
3	256QAM	15	0	18.75	18.79	18.74				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.48	22.52	22.36				
1.4	QPSK	1	3	22.33	22.47	22.23	24	0		
1.4	QPSK	1	5	22.34	22.45	22.33				
1.4	QPSK	3	0	22.44	22.47	22.42				
1.4	QPSK	3	1	22.30	22.33	22.28				
1.4	QPSK	3	3	22.29	22.39	22.25	24	0		
1.4	QPSK	6	0	22.18	22.32	22.26				
1.4	16QAM	1	0	22.38	22.38	22.29				
1.4	16QAM	1	3	22.31	22.29	22.16	24	0		
1.4	16QAM	3	1	22.24	22.25	22.28				
1.4	16QAM	3	3	22.16	22.31	22.26	23.5	0.8		
1.4	16QAM	6	0	21.80	21.86	21.84				
1.4	16QAM	1	0	21.82	22.00	21.86				
1.4	16QAM	1	3	21.89	21.74	21.76				
1.4	16QAM	1	3	21.72	21.76	21.75	23.5	0.5		
1.4	16QAM	3	0	21.74	21.91	21.74				
1.4	16QAM	3	1	21.75	21.69	21.75				
1.4	16QAM	6	0	20.88	20.91	20.85	22.5	1.5		
1.4	256QAM	1	0	18.90	18.90	18.90				
1.4	256QAM	1	3	18.90	18.78	18.86	20.5	3.5		
1.4	256QAM	3	0	18.74	18.84	18.65				
1.4	256QAM	3	1	18.76	18.72	18.69				
1.4	256QAM	3	1	18.76	18.64	18.65	20.5	3.5		
1.4	256QAM	6	0	18.71	18.78	18.74				

Band 66 Ant0 DS16										
BM [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Time-up Int. (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.34	21.63	21.50				
20	QPSK	1	49	21.28	21.53	21.46	22.3	0		
20	QPSK	1	99	21.54	21.57	21.44				
20	QPSK	50	0	21.48	21.58	21.55				
20	QPSK	24	0	21.43	21.54	21.48	22.3	0		
20	QPSK	50	50	21.40	21.53	21.40				
20	QPSK	100	0	21.39	21.52	21.45				
15	16QAM	1	0	21.41	21.50	21.41				



Band 38 PC3 Ant0 DSI6									
BW [MHz]	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	23.06	23.19	23.04	24	0	
20	QPSK	1	49	23.00	23.08	22.93			
20	QPSK	1	99	23.01	23.04	22.91			
20	QPSK	50	0	23.05	23.08	23.00			
20	QPSK	50	24	22.87	22.85	22.87	24	0	
20	QPSK	50	50	23.00	23.08	23.00			
20	QPSK	100	0	22.98	23.05	22.97			
20	16QAM	1	0	22.98	23.05	22.97			
20	16QAM	1	49	22.92	23.07	22.95	24	0	
20	16QAM	1	99	22.86	23.03	23.01			
20	16QAM	50	0	22.93	23.06	22.95			
20	16QAM	50	24	22.98	23.12	23.05			
20	16QAM	50	50	23.01	23.08	23.03	24	0	
20	16QAM	100	0	22.92	23.06	22.97			
20	64QAM	1	0	22.97	23.15	22.98			
20	64QAM	1	49	22.94	23.05	22.99	24	0	
20	64QAM	1	99	23.06	23.13	22.98			
20	64QAM	50	0	22.87	23.00	22.97			
20	64QAM	50	24	23.05	23.11	23.07			
20	64QAM	50	50	23.06	23.09	22.94	24	0	
20	64QAM	100	0	22.97	23.07	23.02			
20	256QAM	1	0	20.93	20.99	20.84			
20	256QAM	1	49	20.84	20.98	20.85	22	2	
20	256QAM	1	99	21.01	21.06	20.91			
20	256QAM	50	0	20.97	21.08	20.94			
20	256QAM	50	24	21.06	21.11	20.97			
20	256QAM	50	50	20.95	21.05	20.91	22	2	
20	256QAM	100	0	20.96	21.07	20.92			
Channel				37825	38000	38175	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2572.5	2585	2592.5			
15	QPSK	1	0	22.91	23.08	22.89	24	0	
15	QPSK	1	37	22.85	23.04	22.76			
15	QPSK	1	74	22.90	22.86	22.76			
15	QPSK	36	0	22.95	23.02	22.85			
15	QPSK	36	20	22.78	22.90	22.72	24	0	
15	QPSK	36	39	22.85	23.01	22.83			
15	QPSK	75	0	22.93	23.01	22.88			
15	16QAM	1	0	22.81	22.85	22.87	24	0	
15	16QAM	1	37	22.88	22.98	22.90			
15	16QAM	1	74	22.72	22.97	22.88			
15	16QAM	36	0	22.86	22.90	22.78			
15	16QAM	36	20	22.94	22.85	23.02	24	0	
15	16QAM	36	39	22.92	23.04	22.97			
15	16QAM	75	0	22.79	23.01	22.89			
15	64QAM	1	0	22.81	23.01	22.85			
15	64QAM	1	37	22.83	23.01	22.89	24	0	
15	64QAM	1	74	22.93	23.01	22.94			
15	64QAM	36	0	22.89	22.85	22.83			
15	64QAM	36	20	22.99	23.02	23.05	24	0	
15	64QAM	36	39	22.98	23.04	22.85			
15	64QAM	75	0	22.82	22.99	22.98			
15	256QAM	1	0	20.77	20.94	20.68			
15	256QAM	1	37	20.75	20.82	20.76	22	2	
15	256QAM	1	74	20.86	20.91	20.77			
15	256QAM	36	0	20.91	20.84	20.83			
15	256QAM	36	20	20.99	21.08	20.81	22	2	
15	256QAM	36	39	20.86	20.88	20.77			
15	256QAM	75	0	20.82	21.03	20.86			
Channel				37800	38000	38200	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	22.99	23.02	22.89	24	0	
10	QPSK	1	25	22.92	23.03	22.88			
10	QPSK	1	49	22.96	22.83	22.94			
10	QPSK	25	0	22.95	22.97	22.84			
10	QPSK	25	12	22.81	22.77	22.82	24	0	
10	QPSK	25	25	22.92	22.85	22.84			
10	QPSK	50	0	22.87	22.94	22.90			
10	16QAM	1	0	22.91	22.98	22.86			
10	16QAM	1	25	22.76	22.91	22.89	24	0	
10	16QAM	1	49	22.79	22.89	22.95			
10	16QAM	25	0	22.90	22.89	22.78			
10	16QAM	25	12	22.86	23.08	22.98	24	0	
10	16QAM	25	25	22.94	22.91	22.92			
10	16QAM	50	0	22.75	22.89	22.91			
10	64QAM	1	0	22.80	23.04	22.91			
10	64QAM	1	25	22.79	22.91	22.86	24	0	
10	64QAM	1	49	22.93	23.02	22.89			
10	64QAM	25	0	22.72	22.97	22.94			
10	64QAM	25	12	22.88	23.00	22.96	24	0	
10	64QAM	25	25	22.89	23.07	22.77			
10	64QAM	50	0	22.79	22.95	22.94			
10	256QAM	1	0	20.80	20.87	20.71			
10	256QAM	1	25	20.72	20.84	20.72	22	2	
10	256QAM	1	49	20.97	20.97	20.75			
10	256QAM	25	0	20.93	21.04	20.90			
10	256QAM	25	12	20.95	20.98	20.85	22	2	
10	256QAM	25	25	20.82	20.88	20.86			
10	256QAM	50	0	20.82	21.00	20.82			
Channel				37775	38000	38225	Tune-up limit (dbm)	MPR (db)	
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	22.95	23.16	22.94	24	0	
5	QPSK	1	12	22.87	22.96	22.80			
5	QPSK	1	24	22.85	22.92	22.83			
5	QPSK	12	0	22.96	23.03	22.84			
5	QPSK	12	7	22.77	22.79	22.78	24	0	
5	QPSK	12	13	22.88	22.89	22.86			
5	QPSK	25	0	22.98	22.96	22.87			
5	16QAM	1	0	22.92	22.89	22.82			
5	16QAM	1	12	22.75	23.05	22.88	24	0	
5	16QAM	1	24	22.76	22.92	22.86			
5	16QAM	12	0	22.80	22.91	22.81			
5	16QAM	12	7	22.86	23.02	23.01	24	0	
5	16QAM	12	13	22.83	22.82	22.89			
5	16QAM	25	0	22.74	23.00	22.84			
5	64QAM	1	0	22.94	23.10	22.84			
5	64QAM	1	12	22.91	22.93	22.90	24	0	
5	64QAM	1	24	22.91	23.06	22.82			
5	64QAM	12	0	22.70	22.98	22.88			
5	64QAM	12	7	22.97	22.96	23.04	24	0	
5	64QAM	12	13	22.94	22.94	22.76			
5	64QAM	25	0	22.81	22.89	22.91			
5	256QAM	1	0	20.77	20.85	20.88			
5	256QAM	1	12	20.74	20.85	20.74	22	2	
5	256QAM	1	24	20.86	21.02	20.85			
5	256QAM	12	0	20.85	21.03	20.88			
5	256QAM	12	7	20.97	21.01	20.94	22	2	
5	256QAM	12	13	20.86	21.01	20.78			
5	256QAM	25	0	20.82	20.91	20.75			

Band 38 PC2 Ant0 DSI6									
BW [MHz]	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	25.45	25.62	25.55	27	0	
20	QPSK	1	49	25.45	25.56	25.46			
20	QPSK	1	99	25.40	25.51	25.38			
20	QPSK	50	0	25.45	25.60	25.48			
20	QPSK	50	24	25.49	25.53	25.43	27	0	
20	QPSK	50	50	25.51	25.35	25.40			
20	QPSK	100	0	25.54	25.59	25.57			
20	16QAM	1	0	25.55	25.58	25.46			
20	16QAM	1	49	25.43	25.46	25.43	27	0	
20	16QAM	1	99	25.27	25.45	25.33			
20	16QAM	50	0	25.38	25.49	25.31			
20	16QAM	50	24	25.35	25.45	25.34	27	0	
20	16QAM	50	50	25.34	25.42	25.36			
20	16QAM	100	0	25.27	25.45	25.35			
20	64QAM	1	0	25.43</					



Band 41 PC3 Ant0 DSI6

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle Ch / Freq	Power Low Middle Ch / Freq	Power High Middle 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	22.91	23.04	23.20	22.98	22.79			
20	QPSK	1	49	22.90	22.95	23.08	22.96	22.77	24	0	
20	QPSK	1	99	22.92	22.90	23.07	22.96	22.85			
20	QPSK	50	0	23.09	23.01	23.17	23.13	23.00			
20	QPSK	50	24	23.07	23.10	23.13	23.04	22.88	24	0	
20	QPSK	50	50	23.07	23.08	23.12	23.08	22.99			
20	QPSK	100	0	23.11	23.02	23.16	23.13	22.98			
20	16QAM	1	0	23.05	22.99	23.12	22.94	22.88			
20	16QAM	1	49	22.90	22.94	23.07	23.04	22.88	24	0	
20	16QAM	1	99	23.07	22.96	23.11	22.95	22.81			
20	16QAM	50	0	23.01	23.03	23.14	23.05	22.91			
20	16QAM	50	24	23.11	23.11	23.17	23.10	22.98			
20	16QAM	50	50	23.03	23.05	23.09	23.04	22.78	24	0	
20	16QAM	100	0	22.93	23.00	23.11	23.00	22.78			
20	64QAM	1	0	22.97	22.89	23.06	22.98	22.78			
20	64QAM	1	49	23.14	23.01	23.17	23.13	22.84	24	0	
20	64QAM	1	99	22.96	23.06	23.12	23.06	22.82			
20	64QAM	50	0	23.10	23.10	23.15	23.11	22.96			
20	64QAM	50	24	22.93	22.96	23.02	22.93	22.75	24	0	
20	64QAM	50	50	22.96	22.99	23.10	23.00	22.80			
20	64QAM	100	0	23.15	23.11	23.18	23.16	22.91			
20	256QAM	1	0	21.05	21.05	21.16	20.99	20.91			
20	256QAM	1	49	21.05	21.05	21.12	21.02	20.88	22	2	
20	256QAM	1	99	21.02	21.02	21.05	20.90	20.87			
20	256QAM	50	0	20.96	20.97	21.10	20.94	20.86			
20	256QAM	50	24	20.89	20.99	21.03	20.91	20.78	22	2	
20	256QAM	50	50	21.10	21.05	21.14	21.11	20.91			
20	256QAM	100	0	21.14	21.12	21.19	21.16	20.99			
Channel											
Frequency (MHz)				39725	40173	40620	41058	41515			
Frequency (MHz)				2503.5	2549.3	2593	2637.6	2682.5			
15	QPSK	1	0	22.85	22.93	23.08	22.89	22.73			
15	QPSK	1	37	22.73	22.83	23.03	22.82	22.65	24.00	0	
15	QPSK	1	74	22.77	22.83	22.98	22.89	22.72			
15	QPSK	36	0	22.92	22.86	23.01	23.02	22.97			
15	QPSK	36	20	22.94	22.98	22.99	22.92	22.77	24	0	
15	QPSK	36	39	23.02	22.91	23.03	22.98	22.87			
15	QPSK	75	0	23.01	22.88	23.03	22.95	22.94			
15	16QAM	1	0	22.86	22.95	23.05	22.91	22.77			
15	16QAM	1	37	22.77	22.76	22.94	22.87	22.75	24	0	
15	16QAM	1	74	22.90	22.83	22.98	22.88	22.74			
15	16QAM	36	0	22.85	22.86	23.05	22.90	22.89			
15	16QAM	36	20	22.95	23.08	23.11	23.00	22.90	24	0	
15	16QAM	36	39	22.94	23.02	22.96	22.95	22.63			
15	16QAM	75	0	22.91	22.97	22.94	22.91	22.72			
15	64QAM	1	0	22.88	22.77	23.00	22.84	22.70			
15	64QAM	1	37	23.03	22.85	23.14	23.10	22.80	24	0	
15	64QAM	1	74	22.84	23.03	22.98	22.92	22.76			
15	64QAM	36	0	22.96	23.06	23.07	22.94	22.83			
15	64QAM	36	20	22.84	22.86	22.96	22.86	22.61	24	0	
15	64QAM	36	39	22.90	22.93	23.06	22.86	22.72			
15	64QAM	75	0	23.02	22.99	23.01	22.99	22.81			
15	256QAM	1	0	20.88	21.02	21.01	20.88	20.76			
15	256QAM	1	37	20.97	20.96	20.96	20.87	20.75	22	2	
15	256QAM	1	74	20.98	20.93	20.87	20.79	20.70			
15	256QAM	36	0	20.88	20.88	21.06	20.78	20.69			
15	256QAM	36	20	20.85	20.88	21.00	20.75	20.74	22	2	
15	256QAM	36	39	20.98	20.90	20.97	20.93	20.78			
15	256QAM	75	0	21.03	20.97	21.04	20.98	20.85			
Channel											
Frequency (MHz)				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.81	23.02	23.06	22.83	22.64			
10	QPSK	1	25	22.80	22.78	22.92	22.85	22.75	24.00	0	
10	QPSK	1	49	22.75	22.75	22.92	22.93	22.68			
10	QPSK	25	0	22.95	22.83	23.01	23.01	22.87			
10	QPSK	25	12	22.94	23.04	22.95	22.93	22.74	24	0	
10	QPSK	25	25	23.04	22.98	23.07	23.04	22.71			
10	QPSK	50	0	23.04	22.89	23.05	22.98	22.83			
10	16QAM	1	0	22.99	22.87	22.95	22.83	22.83			
10	16QAM	1	25	22.82	22.79	23.04	22.99	22.72	24	0	
10	16QAM	1	49	23.02	22.82	22.98	22.92	22.69			
10	16QAM	25	0	22.80	22.94	22.99	22.91	22.88			
10	16QAM	25	12	23.01	22.96	23.05	23.04	22.85	24	0	
10	16QAM	25	25	22.86	22.95	23.00	22.95	22.63			
10	16QAM	50	0	22.90	22.96	23.03	22.92	22.72			
10	64QAM	1	0	22.93	22.76	22.98	22.90	22.72			
10	64QAM	1	25	23.00	22.99	23.13	23.10	22.71	24	0	
10	64QAM	1	49	22.85	22.91	23.02	22.97	22.72			
10	64QAM	25	0	22.98	23.04	22.97	22.99	22.92			
10	64QAM	25	12	22.87	22.79	22.98	22.96	22.68	24	0	
10	64QAM	25	25	22.85	22.93	22.97	22.92	22.70			
10	64QAM	50	0	23.11	23.06	23.12	23.00	22.87			
10	256QAM	1	0	20.92	20.99	20.98	20.82	20.84			
10	256QAM	1	25	21.00	20.88	20.95	20.87	20.71	22	2	
10	256QAM	1	49	20.89	20.87	20.93	20.72	20.70			
10	256QAM	25	0	20.80	20.84	20.97	20.88	20.72			
10	256QAM	25	12	20.73	20.85	20.89	20.89	20.63	22	2	
10	256QAM	25	25	20.98	21.03	20.98	20.98	20.76			
10	256QAM	50	0	21.02	21.02	21.03	21.07	20.85			
Channel											
Frequency (MHz)				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	22.81	22.92	23.16	22.88	22.71			
5	QPSK	1	12	22.85	22.82	22.94	22.90	22.68	24.00	0	
5	QPSK	1	24	22.83	22.76	22.98	22.86	22.76			
5	QPSK	12	0	22.99	22.88	23.06	23.02	22.93			
5	QPSK	12	7	22.85	22.93	23.10	22.91	22.71	24	0	
5	QPSK	12	13	23.00	23.05	23.08	22.96	22.83			
5	QPSK	25	0	23.00	22.95	23.06	23.11	22.94			
5	16QAM	1	0	22.97	22.84	23.01	22.85	22.72			
5	16QAM	1	12	22.80	22.77	23.00	22.96	22.78	24	0	
5	16QAM	1	24	22.90	22.94	22.96	22.89	22.65			
5	16QAM	12	0	22.89	22.89	23.05	22.95	22.76			
5	16QAM	12	7	22.99	22.93	23.02	23.00	22.90	24	0	
5	16QAM	12	13	22.87	22.88	22.96	22.87	22.71			
5	16QAM	25	0	22.79	22.93	23.00	22.86	22.61			
5	64QAM	1	0	22.86	22.77	23.01	22.86	22.73			
5	64QAM	1	12	22.99	22.99	23.03	23.10	22.74	24	0	
5	64QAM	1	24	22.93	22.98	22.99	22.92	22.70			
5	64QAM	12	0	23.05	22.99	23.08	23.08	22.85			
5	64QAM	12	7	22.82	22.89	22.94	22.89	22.62	24	0	
5	64QAM	12	13	22.86	22.84	23.05	22.82	22.73			
5	64QAM	25	0	23.12	23.00	23.05	23.03	22.84			
5	256QAM	1	0	21.02	21.03	21.14	20.96	20.81			
5	256QAM	1	12	20.96	20.88	20.96	20.92	20.80	22	2	



GSM850 ANT1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	512	661	810	512	661	810	512	661
Frequency (MHz)	1850.2	1860	1869.8	1850.2	1860	1869.8	1850.2	1860
GSM 1 Tx slot	32.35	32.42	32.18	33.50	23.35	23.42	23.18	24.50
GPRS 1 Tx slot	32.29	32.31	32.06	33.50	23.29	23.31	23.06	24.50
GPRS 2 Tx slots	29.91	29.93	29.69	31.00	23.91	23.93	23.69	25.00
GPRS 3 Tx slots	27.67	27.64	27.52	29.00	23.41	23.38	23.26	24.74
GPRS 4 Tx slots	26.29	26.21	26.01	27.00	23.29	23.21	23.01	24.00
EDGE 1 Tx slot	25.16	25.24	25.11	26.50	18.16	18.24	18.11	17.50
EDGE 2 Tx slots	23.48	23.63	23.42	25.00	17.48	17.63	17.42	19.00
EDGE 3 Tx slots	22.26	22.42	22.25	23.50	16.00	16.16	17.99	19.24
EDGE 4 Tx slots	20.22	20.35	20.28	22.00	17.22	17.35	17.28	19.00

GSM1900 ANT1	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	1860	1869.8	1850.2	1860	1869.8	1850.2	1860
Frequency (MHz)	1850.2	1860	1869.8	1850.2	1860	1869.8	1850.2	1860
GSM 1 Tx slot	28.88	29.15	28.94	30.50	19.88	20.15	19.94	21.50
GPRS 1 Tx slot	28.75	29.07	28.86	30.50	19.75	20.07	19.86	21.50
GPRS 2 Tx slots	25.27	25.52	25.14	26.50	19.27	19.52	19.14	20.50
GPRS 3 Tx slots	23.46	23.93	23.66	25.00	19.20	19.67	19.40	20.74
GPRS 4 Tx slots	22.21	22.16	22.33	23.50	19.21	19.16	19.33	20.50
EDGE 1 Tx slot	24.48	24.70	24.32	25.00	15.46	15.70	15.32	16.00
EDGE 2 Tx slots	22.76	22.91	22.52	24.00	16.76	16.91	16.52	18.00
EDGE 3 Tx slots	21.60	21.82	21.44	23.00	17.34	17.56	17.16	18.74
EDGE 4 Tx slots	19.40	19.62	19.27	20.50	16.40	16.62	16.27	17.50

Band	WCDMA I Ant DS8			WCDMA IV Ant DS8			WCDMA V ANT1			Tune-up Limit (dBm)
	9262	9400	9538	1312	1413	1513	4192	4182	4233	
TX Channel	9662	9600	9598	1537	1638	1738	4357	4407	4458	
Rx Channel	9662	9600	9598	1537	1638	1738	4357	4407	4458	
Frequency (MHz)	1832.4	1860	1867.8	1712.4	1723.8	1732.6	4326.4	4336.4	4346.6	
3GPP Rel 99	AMR 12.2kops	20.45	20.49	20.23	21.20	19.88	20.07	20.00	21.10	22.96
3GPP Rel 99	RMC 12.2kops	20.52	20.56	20.31	21.20	20.08	20.18	20.06	21.10	23.08
3GPP Rel 6	HSDPA Subtest-1	19.78	19.66	19.59	20.20	19.19	19.15	19.02	20.10	22.05
3GPP Rel 6	HSDPA Subtest-2	19.68	19.74	19.50	20.20	19.11	19.25	19.07	20.10	22.01
3GPP Rel 6	HSDPA Subtest-3	19.21	19.24	19.15	19.70	18.65	18.72	18.55	19.60	21.51
3GPP Rel 6	HSDPA Subtest-4	18.11	19.28	19.06	19.70	18.64	18.79	18.58	19.60	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.69	19.78	19.65	20.20	19.10	19.24	19.15	20.10	22.01
3GPP Rel 8	DC-HSDPA Subtest-2	19.65	19.79	19.56	20.20	19.12	19.19	19.11	20.10	21.98
3GPP Rel 8	DC-HSDPA Subtest-3	19.17	19.35	19.17	19.70	18.67	18.72	18.52	19.60	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.17	19.21	19.05	19.70	18.69	18.74	18.53	19.60	21.51
3GPP Rel 6	HSUPA Subtest-1	19.64	19.62	19.66	20.20	19.12	19.25	19.15	20.10	22.03
3GPP Rel 6	HSUPA Subtest-2	17.54	17.63	17.57	18.20	17.09	17.28	17.06	18.10	19.94
3GPP Rel 6	HSUPA Subtest-3	18.63	18.78	18.65	19.20	18.11	18.20	18.11	19.10	21.03
3GPP Rel 6	HSUPA Subtest-4	17.64	17.78	17.60	18.20	17.14	17.25	17.14	18.10	19.99
3GPP Rel 6	HSUPA Subtest-5	18.75	19.70	19.57	20.20	19.22	19.24	19.06	20.10	22.06



Band 2 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power (MHz)	Power (MHz)	Power (MHz)	Take-up (dB)	MPR (dB)		
Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
Frequency (MHz)	1860	1860	1860	1860	1860	1860	1860	1860	1860	1860
20	QPSK	1	0	20.33	20.43	20.41				
20	QPSK	1	0	20.37	20.39	20.37				
20	QPSK	1	99	20.38	20.48	20.34				
20	QPSK	50	0	20.28	20.35	20.24				
20	QPSK	50	99	20.35	20.38	20.28				
20	QPSK	50	99	20.19	20.32	20.25				
20	QPSK	100	0	20.28	20.43	20.32				
20	QPSK	100	0	20.37	20.39	20.38				
20	16QAM	1	49	20.17	20.31	20.20				
20	16QAM	1	99	20.28	20.39	20.38				
20	16QAM	50	0	20.37	20.39	20.37				
20	16QAM	50	24	20.38	20.42	20.38				
20	16QAM	50	99	20.38	20.47	20.38				
20	16QAM	100	0	20.19	20.31	20.27				
20	16QAM	100	0	20.29	20.33	20.19				
20	16QAM	100	49	20.30	20.42	20.29				
20	16QAM	100	99	20.38	20.48	20.32				
20	16QAM	50	0	19.79	19.82	19.75				
20	16QAM	50	24	19.83	19.87	19.78				
20	16QAM	50	99	19.74	19.83	19.89				
20	16QAM	100	0	17.71	17.88	17.80				
20	16QAM	100	49	17.75	17.89	17.79				
20	16QAM	100	99	17.82	17.92	17.72				
20	16QAM	50	0	17.75	17.79	17.84				
20	16QAM	50	24	17.88	17.78	17.88				
20	16QAM	50	99	17.82	17.94	17.84				
20	16QAM	100	0	17.73	17.78	17.72				
	Channel			18975	18990	19135	Take-up (dB)	MPR (dB)		
	Frequency (MHz)			18975	18990	19135	Channel	Channel	Channel	Channel
15	QPSK	1	0	20.33	20.40	20.35				
15	QPSK	1	37	20.18	20.30	20.20				
15	QPSK	1	74	20.23	20.22	20.31				
15	QPSK	36	0	20.14	20.20	20.10				
15	QPSK	36	20	20.24	20.23	20.15				
15	QPSK	36	39	20.12	20.17	20.13				
15	QPSK	36	57	20.21	20.25	20.25				
15	16QAM	1	0	20.17	20.20	20.21				
15	16QAM	1	37	20.08	20.10	20.16				
15	16QAM	1	74	20.20	20.20	20.16				
15	16QAM	36	0	20.23	20.28	20.16				
15	16QAM	36	20	20.28	20.34	20.24				
15	16QAM	36	39	20.28	20.34	20.24				
15	16QAM	36	57	20.07	20.23	20.17				
15	16QAM	100	0	20.23	20.23	20.09				
15	16QAM	100	37	20.16	20.20	20.16				
15	16QAM	100	74	20.33	20.42	20.23				
15	16QAM	100	99	19.74	19.74	19.62				
15	16QAM	50	0	17.82	17.86	17.86				
15	16QAM	50	39	19.72	19.74	19.83				
15	16QAM	50	74	19.88	19.79	19.88				
15	16QAM	50	99	17.70	17.78	17.89				
15	16QAM	100	0	17.81	17.87	17.85				
15	16QAM	100	37	17.81	17.87	17.86				
15	16QAM	100	74	17.81	17.87	17.86				
15	16QAM	100	99	17.77	17.79	17.87				
15	16QAM	36	20	17.87	17.87	17.87				
15	16QAM	36	39	17.87	17.87	17.87				
15	16QAM	36	57	17.87	17.87	17.87				
15	16QAM	100	0	17.80	17.88	17.89				
	Channel			18650	18660	18150	Take-up (dB)	MPR (dB)		
	Frequency (MHz)			18650	18660	18150	Channel	Channel	Channel	Channel
10	QPSK	1	0	20.31	20.43	20.35				
10	QPSK	1	0	20.31	20.43	20.35				
10	QPSK	1	49	20.27	20.39	20.39				
10	QPSK	25	0	20.15	20.31	20.14				
10	QPSK	25	20	20.17	20.20	20.08				
10	QPSK	25	25	20.13	20.27	20.20				
10	QPSK	50	0	20.21	20.31	20.17				
10	QPSK	50	99	20.16	20.20	20.16				
10	16QAM	1	25	20.04	20.17	20.07				
10	16QAM	1	49	20.17	20.29	20.25				
10	16QAM	50	0	20.32	20.38	20.28				
10	16QAM	50	99	20.28	20.38	20.28				
10	16QAM	100	0	20.20	20.26	20.05				
10	16QAM	100	25	20.25	20.32	20.20				
10	16QAM	100	49	20.34	20.39	20.17				
10	16QAM	100	99	19.73	19.79	19.70				
10	16QAM	50	0	19.72	19.82	19.74				
10	16QAM	50	25	19.89	19.72	19.81				
10	16QAM	50	49	19.70	19.86	19.86				
10	16QAM	100	0	17.84	17.80	17.81				
10	16QAM	100	25	17.82	17.74	17.86				
10	16QAM	100	49	17.71	17.71	17.89				
10	16QAM	100	99	17.83	17.82	17.88				
10	16QAM	50	0	17.80	17.85	17.88				
10	16QAM	50	25	17.80	17.85	17.83				
	Channel			18925	18990	19175	Take-up (dB)	MPR (dB)		
	Frequency (MHz)			18925	18990	19175	Channel	Channel	Channel	Channel
5	QPSK	1	0	20.38	20.40	20.31				
5	QPSK	1	12	20.17	20.29	20.19				
5	QPSK	1	24	20.25	20.40	20.29				
5	QPSK	12	0	20.18	20.20	20.19				
5	QPSK	12	7	20.17	20.20	20.08				
5	QPSK	12	13	20.06	20.10	20.13				
5	QPSK	12	19	20.14	20.30	20.17				
5	16QAM	1	12	20.13	20.20	20.14				
5	16QAM	1	24	20.17	20.20	20.23				
5	16QAM	12	0	20.16	20.32	20.16				
5	16QAM	12	7	20.28	20.35	20.23				
5	16QAM	12	13	20.28	20.40	20.27				
5	16QAM	12	19	20.05	20.20	20.09				
5	16QAM	100	0	20.21	20.19	20.08				
5	16QAM	100	12	20.15	20.30	20.23				
5	16QAM	100	24	20.16	20.32	20.16				
5	16QAM	100	36	20.28	20.38	20.28				
5	16QAM	100	48	20.34	20.39	20.27				
5	16QAM	100	60	20.28	20.40	20.27				
5	16QAM	100	72	20.28	20.40	20.29				
5	16QAM	100	84	20.08	20.20	20.08				
5	16QAM	100	96	20.19	20.27	20.04				
5	16QAM	100	108	20.27	20.36	20.22				
5	16QAM	100	120	20.29	20.38	20.27				
5	16QAM	100	132	19.84	19.79	19.72				
5	16QAM	100	144	19.89	19.79	19.84				
5	16QAM	100	156	19.87	19.79	19.89				
5	16QAM	100	168	17.88	17.73	17.88				
5	16QAM	100	180	17.88	17.77	17.89				
5	16QAM	100	192	17.88	17.73	17.84				
5	16QAM	100	204	17.81	17.87	17.81				
5	16QAM	100	216	17.80	17.83	17.84				
5	16QAM	100	228	17.80	17.88	17.84				
	Channel			18615	18660	18155	Take-up (dB)	MPR (dB)		
	Frequency (MHz)			18615	18660	18155	Channel	Channel	Channel	Channel
3	QPSK	1	0	20.37	20.39	20.38				
3	QPSK	1	14	20.24	20.42	20.24				
3	QPSK	8	0	20.23	20.31	20.19				
3	QPSK	8	7	20.13	20.21	20.13				
3	QPSK	8	7	20.07	20.19	20.16				
3	QPSK	15	0	20.16	20.30	20.26				
3	16QAM	1	0	20.09	20.20	20.17				
3	16QAM	1	14	20.17	20.29	20.23				
3	16QAM	8	0	20.16	20.32	20.16				
3	16QAM	8	7	20.28	20.40	20.29				
3	16QAM	15	0	20.08	20.20	20.16				
3	16QAM	15	7	20.17	20.27	20.04				
3	16QAM	100	0	20.27	20.36	20.22				
3	16QAM	100	14	20.29	20.38	20.27				
3	16QAM	100	28	19.84	19.79	19.88				
3	16QAM	100	42	19.71	19.79	19.72				
3	16QAM	100	56	19.89	19.79	19.84				
3	16QAM	100	70	19.87	19.79	19.89				
3	16QAM	100	84	17.88	17.73	17.88				
3	16QAM	100	98	17.88	17.77	17.87				
3	16QAM	100	112	17.88	17.73	17.84				
3	16QAM	100	126	17.81	17.87	17.81				
3	16QAM	100	140	17.80	17.83	17.84				
3	16QAM	100	154	17.80	17.88	17.84				
	Channel			18607	18660	18153	Take-up (dB)	MPR (dB)		
	Frequency (MHz)			18607	18660	18153	Channel	Channel	Channel	Channel
1.4	QPSK	1	0							



Band 12 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.76	22.71	24	0		
10	QPSK	25	0	22.22	22.32	22.16				
10	QPSK	1	49	22.95	22.62	22.48				
10	QPSK	25	0	22.68	22.75	22.83				
10	QPSK	25	49	22.32	22.68	22.58				
10	QPSK	50	0	22.83	22.72	22.89				
10	QPSK	50	49	22.62	22.74	22.97				
10	16QAM	1	25	22.58	22.53	22.56	24	0		
10	16QAM	1	49	22.43	22.47	22.54				
10	16QAM	25	0	22.22	22.22	22.16				
10	16QAM	25	12	22.18	22.10	22.13	23.5	0.5		
10	16QAM	25	25	22.10	22.11	22.15				
10	16QAM	25	49	22.22	22.30	22.23				
10	64QAM	1	0	22.22	22.22	22.15				
10	64QAM	1	25	22.13	22.07	22.15				
10	64QAM	1	49	22.11	22.12	22.10				
10	64QAM	25	0	21.22	21.28	21.24				
10	64QAM	25	12	21.18	21.16	21.19				
10	64QAM	25	25	21.13	21.23	21.24				
10	64QAM	25	49	21.15	21.28	21.18				
10	256QAM	1	0	19.20	19.24	19.13				
10	256QAM	1	25	19.07	19.12	19.07				
10	256QAM	1	49	19.03	19.07	19.06				
10	256QAM	25	0	19.18	19.29	19.16				
10	256QAM	25	12	19.18	19.25	19.27				
10	256QAM	25	25	19.13	19.23	19.23				
10	256QAM	25	49	19.13	19.27	19.16				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.56	22.68	22.67				
5	QPSK	1	12	22.50	22.61	22.48				
5	QPSK	1	24	22.43	22.50	22.34				
5	QPSK	12	0	22.17	22.17	22.10				
5	QPSK	12	7	22.42	22.56	22.56				
5	QPSK	12	13	22.49	22.63	22.51				
5	QPSK	12	19	22.50	22.66	22.61				
5	16QAM	1	0	22.54	22.71	22.50				
5	16QAM	1	12	22.45	22.63	22.44				
5	16QAM	1	24	22.32	22.57	22.46				
5	16QAM	12	0	21.22	21.17	21.13				
5	16QAM	12	7	21.05	21.04	21.06				
5	16QAM	12	13	21.02	21.08	21.03				
5	16QAM	12	19	21.02	21.18	21.11				
5	64QAM	1	0	21.08	21.24	21.17				
5	64QAM	1	12	21.02	21.07	21.06				
5	64QAM	1	24	21.01	21.03	21.03				
5	64QAM	12	0	21.09	21.23	21.17				
5	64QAM	12	7	21.06	21.11	21.06				
5	64QAM	12	13	21.15	21.08	21.10				
5	64QAM	12	19	21.09	21.17	21.03				
5	256QAM	1	0	19.13	19.05	19.04				
5	256QAM	1	24	18.96	18.91	18.86				
5	256QAM	12	0	19.06	19.11	19.06				
5	256QAM	12	7	19.03	19.11	19.20				
5	256QAM	12	13	19.22	19.16	19.14				
5	256QAM	12	19	19.04	19.11	19.06				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.47	22.72	22.59				
3	QPSK	1	14	22.42	22.60	22.42				
3	QPSK	1	28	22.60	22.60	22.54				
3	QPSK	14	0	22.02	22.02	21.96				
3	QPSK	14	7	22.51	22.59	22.43				
3	QPSK	14	14	22.58	22.63	22.63				
3	16QAM	1	0	22.43	22.41	22.48				
3	16QAM	1	14	22.38	22.43	22.43				
3	16QAM	1	28	22.11	22.07	22.10				
3	16QAM	14	0	22.06	22.05	22.03				
3	16QAM	14	7	21.98	21.99	22.05				
3	16QAM	14	14	22.14	22.21	22.19				
3	64QAM	1	0	22.06	22.15	22.18				
3	64QAM	1	8	22.21	22.21	22.03				
3	64QAM	1	14	22.07	22.01	22.01				
3	64QAM	1	28	21.09	21.09	21.10				
3	64QAM	14	0	21.13	21.13	21.08				
3	64QAM	14	7	21.20	21.16	21.20				
3	64QAM	14	14	21.07	21.15	21.06				
3	256QAM	1	0	19.18	19.19	19.05				
3	256QAM	1	8	18.96	18.97	18.92				
3	256QAM	1	14	19.08	19.05	19.02				
3	256QAM	14	0	19.08	19.26	19.04				
3	256QAM	14	7	19.04	19.10	19.19				
3	256QAM	14	14	19.19	19.13	19.11				
3	256QAM	14	28	19.08	19.23	19.09				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.48	22.67	22.58				
1.4	QPSK	1	3	22.44	22.59	22.58				
1.4	QPSK	1	6	22.41	22.56	22.36				
1.4	QPSK	1	12	22.02	22.02	21.97				
1.4	QPSK	3	0	22.45	22.61	22.57				
1.4	QPSK	3	6	22.49	22.62	22.48				
1.4	16QAM	1	0	22.59	22.68	22.55				
1.4	16QAM	1	3	22.49	22.38	22.43				
1.4	16QAM	1	6	22.06	22.09	22.01				
1.4	16QAM	3	0	22.60	22.69	22.54				
1.4	16QAM	3	6	22.03	22.47	22.80				
1.4	16QAM	6	0	22.14	22.23	22.08				
1.4	64QAM	1	0	22.10	22.16	22.15				
1.4	64QAM	1	3	22.02	22.02	22.02				
1.4	64QAM	1	6	22.02	22.08	21.99				
1.4	64QAM	3	0	22.13	22.15	22.14				
1.4	64QAM	3	6	22.09	22.07	22.02				
1.4	64QAM	3	12	22.09	22.16	22.16				
1.4	256QAM	1	0	19.07	19.14	19.06				
1.4	256QAM	1	3	18.95	19.02	18.92				
1.4	256QAM	1	6	18.92	18.98	18.87				
1.4	256QAM	3	0	19.07	19.20	19.05				
1.4	256QAM	3	6	19.11	19.13	19.23				
1.4	256QAM	3	12	19.19	19.11	19.12				
1.4	256QAM	6	0	19.09	19.21	19.12				

Band 13 Ant1 DS16										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Int. (min)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.52	22.21	22.15	23.5	0		
10	QPSK	1	25	22.21	22.15	22.15				
10	QPSK	1	49	22.14	22.14	22.14				
10	QPSK	25	0	22.25	22.25	22.25				
10	QPSK	25	12	22.13	22.13	22.13				
10	QPSK	25	25	22.08	22.08	22.08				
10	QPSK	50	0	22.15	22.15	22.15				
10	16QAM	1	25	22.13	22.13	22.13	23.5	0		
10	16QAM	1	49	22.05	22.05	22.05				
10	16QAM	25	0	21.91	21.91	21.91				
10	16QAM	25	12	21.82	21.82	21.82				
10	16QAM	25	25	21.58	21.58	21.58				
10	16QAM	50	0	21.89	21.89	21.89				
10	64QAM	1	25	21.54	21.54	21.54				
10	64QAM	1	49	21.60	21.60	21.60				
10	64QAM	25	0	20.74	20.74	20.74				
10	64QAM	25	12	20.51	20.51	20.51				
10	64QAM	25	25	20.62	20.62	20.62				
10	64QAM	50	0	20.89	20.89	20.89				
10	256QAM	1	25	18.70	18.70	18.70				
10	256QAM	1	49	18.62	18.62	18.62				
10	256QAM	25	0	18.80	18.80	18.80				



Band 26 Ant1 DSI6										
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.63	22.66	22.61				
15	QPSK	1	37	22.43	22.46	22.41	24	0		
15	QPSK	1	74	22.48	22.55	22.41				
15	QPSK	36	0	22.50	22.59	22.54				
15	QPSK	36	36	22.35	22.44	22.39	24	0		
15	QPSK	36	58	22.39	22.49	22.42				
15	QPSK	75	0	22.30	22.45	22.33				
15	16QAM	1	0	22.34	22.44	22.38				
15	16QAM	1	37	22.37	22.40	22.39	24	0		
15	16QAM	1	74	22.32	22.51	22.45				
15	16QAM	36	0	22.00	22.08	21.99				
15	16QAM	36	20	21.81	21.84	21.82				
15	16QAM	36	39	21.91	21.85	21.90	23.5	0.5		
15	16QAM	75	0	21.96	22.05	21.95				
15	16QAM	1	0	22.01	22.12	22.01				
15	16QAM	1	37	21.92	21.81	21.87	23.5	0.5		
15	16QAM	1	74	21.89	21.86	21.84				
15	16QAM	36	0	21.06	21.10	21.07				
15	16QAM	36	20	21.02	21.14	21.06				
15	16QAM	36	39	21.10	21.08	20.99	22.5	1.5		
15	16QAM	75	0	20.88	20.99	20.87				
15	256QAM	1	0	18.01	18.09	18.05				
15	256QAM	1	37	18.07	18.04	18.07	20.5	3.5		
15	256QAM	1	74	18.02	18.00	18.01				
15	256QAM	36	0	18.09	18.03	18.08				
15	256QAM	36	20	18.01	18.00	18.07	20.5	3.5		
15	256QAM	36	39	18.08	18.02	18.01				
15	256QAM	75	0	18.84	18.87	18.88				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.52	22.61	22.41				
10	QPSK	1	25	22.33	22.43	22.41	24	0		
10	QPSK	1	49	22.43	22.49	22.38				
10	QPSK	25	0	22.40	22.48	22.43				
10	QPSK	25	12	22.28	22.38	22.28	24	0		
10	QPSK	25	26	22.32	22.45	22.27				
10	QPSK	50	0	22.17	22.37	22.24				
10	16QAM	1	0	22.40	22.59	22.50				
10	16QAM	1	25	22.22	22.27	22.30	24	0		
10	16QAM	1	49	22.22	22.39	22.32				
10	16QAM	25	0	21.95	21.97	21.81				
10	16QAM	25	12	21.75	21.76	21.74	23.5	0.5		
10	16QAM	25	26	21.78	21.72	21.81				
10	16QAM	50	0	21.88	21.96	21.88				
10	16QAM	1	0	21.88	22.06	21.96				
10	16QAM	1	25	21.86	21.70	21.27	23.5	0.5		
10	16QAM	1	49	21.83	21.84	21.87				
10	16QAM	25	0	20.94	21.05	20.94				
10	16QAM	25	12	20.87	21.03	20.98				
10	16QAM	25	26	20.98	21.04	20.83	22.5	1.5		
10	16QAM	50	0	20.78	20.83	20.82				
10	256QAM	1	0	18.96	18.96	18.85				
10	256QAM	1	25	18.79	18.75	18.53	20.5	3.5		
10	256QAM	1	49	18.81	18.86	18.86				
10	256QAM	36	0	18.86	18.86	18.83				
10	256QAM	36	12	18.93	18.92	18.84	20.5	3.5		
10	256QAM	36	26	18.92	18.88	18.87				
10	256QAM	75	0	18.77	18.85	18.83				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.52	22.52	22.39				
5	QPSK	1	12	22.38	22.44	22.41	24	0		
5	QPSK	1	24	22.44	22.47	22.35				
5	QPSK	12	0	22.38	22.52	22.49				
5	QPSK	12	7	22.38	22.47	22.38				
5	QPSK	12	13	22.27	22.37	22.38	24	0		
5	QPSK	25	0	22.28	22.42	22.25				
5	16QAM	1	0	22.46	22.46	22.38				
5	16QAM	1	12	22.34	22.33	22.33	24	0		
5	16QAM	1	24	22.20	22.38	22.40				
5	16QAM	12	0	21.96	21.98	21.89				
5	16QAM	12	7	21.78	21.79	21.73	23.5	0.5		
5	16QAM	12	13	21.79	21.75	21.83				
5	16QAM	25	0	21.88	21.91	21.81				
5	16QAM	1	0	21.94	22.01	21.83				
5	16QAM	1	12	21.88	21.71	21.81	23.5	0.5		
5	16QAM	1	24	21.85	21.81	21.81				
5	16QAM	12	0	21.00	20.99	20.98				
5	16QAM	12	7	20.95	21.10	21.01	22.5	1.5		
5	16QAM	12	13	21.06	20.99	20.95				
5	16QAM	25	0	20.14	20.89	20.80				
5	256QAM	1	0	18.87	18.96	18.81				
5	256QAM	1	12	18.75	18.70	18.76	20.5	3.5		
5	256QAM	1	24	18.82	18.76	18.71				
5	256QAM	12	0	18.95	18.94	18.87				
5	256QAM	12	7	18.89	18.95	18.87	20.5	3.5		
5	256QAM	12	13	18.94	18.88	18.73				
5	256QAM	25	0	18.75	18.91	18.79				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.59	22.59	22.40				
3	QPSK	1	8	22.31	22.38	22.40	24	0		
3	QPSK	1	14	22.41	22.44	22.27				
3	QPSK	8	0	22.38	22.49	22.48				
3	QPSK	8	4	22.31	22.35	22.26	24	0		
3	QPSK	8	7	22.24	22.46	22.37				
3	QPSK	15	0	22.19	22.41	22.23				
3	16QAM	1	0	22.44	22.54	22.53				
3	16QAM	1	8	22.27	22.31	22.28	24	0		
3	16QAM	1	14	22.28	22.45	22.40				
3	16QAM	8	0	21.99	22.04	21.88				
3	16QAM	8	4	21.71	21.76	21.71	23.5	0.5		
3	16QAM	8	7	21.77	21.75	21.83				
3	16QAM	15	0	21.86	21.95	21.87				
3	16QAM	1	0	21.90	22.05	21.83				
3	16QAM	1	8	21.78	21.74	21.82	23.5	0.5		
3	16QAM	1	14	21.80	21.82	21.82				
3	16QAM	8	0	21.01	21.01	20.92				
3	16QAM	8	4	20.90	21.02	20.90	22.5	1.5		
3	16QAM	8	7	20.98	21.03	20.90				
3	16QAM	15	0	20.83	20.89	20.79				
3	256QAM	1	0	18.86	18.94	18.83				
3	256QAM	1	8	18.81	18.72	18.75	20.5	3.5		
3	256QAM	1	14	18.84	18.84	18.86				
3	256QAM	8	0	18.95	18.96	18.84				
3	256QAM	8	4	18.98	18.95	19.02				
3	256QAM	8	7	18.83	18.83	18.88	20.5	3.5		
3	256QAM	15	0	18.85	18.83	18.83				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.50	22.60	22.40				
1.4	QPSK	1	3	22.28	22.38	22.31				
1.4	QPSK	1	5	22.42	22.43	22.33	24	0		
1.4	QPSK	3	0	22.46	22.56	22.44				
1.4	QPSK	3	1	22.33	22.31	22.30				
1.4	QPSK	3	3	22.25	22.37	22.36				
1.4	QPSK	6	0	22.25	22.38	22.21	24	0		
1.4	16QAM	1	0	22.32	22.20	22.27				
1.4	16QAM	1	5	22.21	22.37	22.37	24	0		
1.4	16QAM	3	0	22.47	22.50	22.38				
1.4	16QAM	3	1	22.32	22.22	22.28				
1.4	16QAM	3	3	22.34	22.30	22.25				
1.4	16QAM	6	0	21.86	22.01	21.91	23.5	0.8		
1.4	16QAM	1	0	21.90	22.01	21.84				
1.4	16QAM	1	3	21.85	21.67	21.82				
1.4	16QAM	1	3	21.89	21.84	21.87	23.5	0.5		
1.4	16QAM	3	0	21.97	21.96	21.83				
1.4	16QAM	3	1	21.97	22.04	22.00				
1.4	16QAM	3	3	22.01	21.94	21.87				
1.4	16QAM	6	0	20.75	20.92	20.79	22.5	1.5		
1.4	256QAM	1	0	18.96	18.95	18.85				
1.4	256QAM	1	3	18.75	18.78	18.75	20.5	3.5		
1.4	256QAM	3	0	18.81	18.86	18.87				
1.4	256QAM	3	1	18.88	18.91	18.85				
1.4	256QAM	3	3	18.86	18.96	18.84				
1.4	256QAM	6	0	18.77	18.89	18.76	20.5	3.5		

Band 66 Ant1 DSI6										
BM (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.78	20.89	20.61				
20	QPSK	1	49	20.81	20.83	20.73	22.2	0		
20	QPSK	1	99	20.67	20.79	20.66				
20	QPSK	50	0	20.75	20.87	20.74				
20	QPSK	24	0	20.84	20.78	20.73	22.2	0		
20	QPSK	50	50	20.61	20.84	20.69				



Band 38 PC3 Ant1 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	21.82	22.01	21.87	23	0		
20	QPSK	1	49	21.81	21.97	21.81				
20	QPSK	1	99	21.74	21.90	21.81				
20	QPSK	50	0	21.84	21.93	21.80				
20	QPSK	50	24	21.87	21.92	21.74	23	0		
20	QPSK	50	50	21.86	21.91	21.79				
20	QPSK	100	0	21.87	21.94	21.79				
20	16QAM	1	0	21.70	21.95	21.69				
20	16QAM	1	49	21.76	21.84	21.78	23	0		
20	16QAM	1	99	21.68	21.79	21.68				
20	16QAM	50	0	21.80	21.77	21.68				
20	16QAM	50	24	21.76	21.89	21.70	23	0		
20	16QAM	50	50	21.78	21.84	21.68				
20	16QAM	100	0	21.78	21.89	21.70				
20	64QAM	1	0	21.65	21.97	21.76				
20	64QAM	1	49	21.76	21.93	21.67	23	0		
20	64QAM	1	99	21.58	21.86	21.77				
20	64QAM	50	0	21.80	21.82	21.63				
20	64QAM	50	24	21.76	21.82	21.70	23	0		
20	64QAM	50	50	21.77	21.80	21.72				
20	64QAM	100	0	21.72	21.81	21.65				
20	256QAM	1	0	19.90	20.12	19.97				
20	256QAM	1	49	19.92	20.10	19.90	21	2		
20	256QAM	1	99	19.92	20.01	19.94				
20	256QAM	50	0	19.87	19.99	19.93				
20	256QAM	50	24	19.92	20.03	19.88	21	2		
20	256QAM	50	50	19.89	20.02	19.83				
20	256QAM	100	0	19.95	19.96	19.91				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2585	2592.5				
15	QPSK	1	0	21.74	21.89	21.80	23	0		
15	QPSK	1	37	21.66	21.94	21.65				
15	QPSK	1	74	21.67	21.83	21.74				
15	QPSK	36	0	21.78	21.88	21.63	23	0		
15	QPSK	36	20	21.82	21.79	21.71				
15	QPSK	36	39	21.75	21.78	21.76				
15	QPSK	75	0	21.82	21.86	21.75				
15	16QAM	1	0	21.57	21.83	21.63	23	0		
15	16QAM	1	37	21.70	21.80	21.70				
15	16QAM	1	74	21.64	21.71	21.54				
15	16QAM	36	0	21.69	21.63	21.50	23	0		
15	16QAM	36	20	21.69	21.85	21.55				
15	16QAM	36	39	21.65	21.81	21.63				
15	16QAM	75	0	21.75	21.84	21.65				
15	64QAM	1	0	21.52	21.87	21.66	23	0		
15	64QAM	1	37	21.65	21.88	21.84				
15	64QAM	1	74	21.41	21.76	21.72				
15	64QAM	36	0	21.67	21.70	21.47	23	0		
15	64QAM	36	20	21.63	21.64	21.53				
15	64QAM	36	39	21.72	21.63	21.66				
15	64QAM	75	0	21.58	21.75	21.49				
15	256QAM	1	0	19.85	19.95	19.81	21	2		
15	256QAM	1	37	19.85	20.05	19.73				
15	256QAM	1	74	19.81	19.94	19.89				
15	256QAM	36	0	19.76	19.83	19.84	21	2		
15	256QAM	36	20	19.85	19.85	19.73				
15	256QAM	36	39	19.84	19.92	19.67				
15	256QAM	75	0	19.79	19.94	19.77				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	21.78	21.94	21.77	23	0		
10	QPSK	1	25	21.64	21.91	21.78				
10	QPSK	1	49	21.60	21.74	21.65				
10	QPSK	25	0	21.68	21.87	21.71	23	0		
10	QPSK	25	12	21.82	21.80	21.57				
10	QPSK	25	25	21.72	21.89	21.74				
10	QPSK	50	0	21.74	21.82	21.69				
10	16QAM	1	0	21.57	21.78	21.52	23	0		
10	16QAM	1	25	21.68	21.78	21.71				
10	16QAM	1	49	21.55	21.67	21.53	23	0		
10	16QAM	25	0	21.69	21.69	21.65				
10	16QAM	25	12	21.71	21.78	21.67				
10	16QAM	25	25	21.63	21.75	21.53	23	0		
10	16QAM	50	0	21.69	21.73	21.55				
10	64QAM	1	0	21.50	21.91	21.72	23	0		
10	64QAM	1	25	21.61	21.91	21.57				
10	64QAM	1	49	21.44	21.68	21.67				
10	64QAM	25	0	21.65	21.78	21.54	23	0		
10	64QAM	25	12	21.71	21.75	21.56				
10	64QAM	25	25	21.64	21.77	21.70				
10	64QAM	50	0	21.58	21.69	21.57				
10	256QAM	1	0	19.76	19.97	19.85	21	2		
10	256QAM	1	25	19.75	19.99	19.87				
10	256QAM	1	49	19.88	19.94	19.81				
10	256QAM	25	0	19.78	19.85	19.88	21	2		
10	256QAM	25	12	19.76	19.91	19.80				
10	256QAM	25	25	19.81	20.00	19.71				
10	256QAM	50	0	19.90	19.92	19.77				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	21.64	21.93	21.70	23	0		
5	QPSK	1	12	21.67	21.81	21.71				
5	QPSK	1	24	21.58	21.82	21.75				
5	QPSK	12	0	21.70	21.88	21.72	23	0		
5	QPSK	12	7	21.75	21.82	21.64				
5	QPSK	12	13	21.78	21.86	21.67				
5	QPSK	25	0	21.70	21.89	21.73	23	0		
5	16QAM	1	0	21.63	21.81	21.64				
5	16QAM	1	12	21.65	21.80	21.61	23	0		
5	16QAM	1	24	21.55	21.73	21.52				
5	16QAM	12	0	21.67	21.60	21.60	23	0		
5	16QAM	12	7	21.74	21.73	21.57				
5	16QAM	12	13	21.64	21.80	21.53				
5	16QAM	25	0	21.75	21.80	21.54	23	0		
5	64QAM	1	0	21.58	21.90	21.67				
5	64QAM	1	12	21.70	21.78	21.58	23	0		
5	64QAM	1	24	21.48	21.82	21.67				
5	64QAM	12	0	21.72	21.76	21.59				
5	64QAM	12	7	21.73	21.75	21.55	23	0		
5	64QAM	12	13	21.70	21.75	21.68				
5	64QAM	25	0	21.64	21.77	21.53				
5	256QAM	1	0	19.87	20.08	19.97	21	2		
5	256QAM	1	12	19.78	19.99	19.74				
5	256QAM	1	24	19.76	19.90	19.84				
5	256QAM	12	0	19.78	19.87	19.81	21	2		
5	256QAM	12	7	19.85	19.86	19.81				
5	256QAM	12	13	19.75	19.99	19.74				
5	256QAM	25	0	19.87	19.80	19.86				

Band 38 PC2 Ant1 DSI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	24.34	24.46	24.39	26	0		
20	QPSK	1	49	24.38	24.44	24.38				
20	QPSK	1	99	24.33	24.38	24.35				
20	QPSK	50	0	24.28	24.45	24.38				
20	QPSK	50	24	24.29	24.36	24.28	26	0		
20	QPSK	50	50	24.28	24.40	24.37				
20	QPSK	100	0	24.40	24.42	24.37				
20										



Band 41 PC3 Ant1 DSI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Middle Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power Low 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	21.88	21.95	22.09	21.92	21.65		
20	QPSK	1	49	21.82	21.91	21.97	21.87	21.79	23	0
20	QPSK	1	99	21.88	21.93	21.96	21.82	21.84		
20	QPSK	50	0	21.88	21.85	22.07	21.92	21.85		
20	QPSK	50	24	21.92	21.90	22.01	21.91	22.03	23	0
20	QPSK	50	50	21.89	21.93	22.05	21.89	21.90		
20	QPSK	100	0	21.95	21.95	22.04	22.00	21.98		
20	16QAM	1	0	22.01	21.90	22.03	21.92	21.95		
20	16QAM	1	49	21.80	21.87	21.94	21.86	21.90	23	0
20	16QAM	1	99	21.84	21.82	21.92	21.76	21.75		
20	16QAM	50	0	21.77	21.85	21.92	21.89	21.76		
20	16QAM	50	24	21.79	21.85	21.89	21.86	21.74		
20	16QAM	50	50	21.72	21.80	21.87	21.80	21.75	23	0
20	16QAM	100	0	21.83	21.92	21.98	21.92	21.89		
20	64QAM	1	0	22.03	21.96	22.05	21.93	21.98		
20	64QAM	1	49	21.79	21.82	21.89	21.79	21.79	23	0
20	64QAM	1	99	21.84	21.82	21.87	21.84	21.80		
20	64QAM	50	0	21.75	21.77	21.86	21.69	21.70		
20	64QAM	50	24	21.80	21.91	21.93	21.81	21.89		
20	64QAM	50	50	21.87	21.80	21.91	21.75	21.87	23	0
20	64QAM	100	0	21.82	21.77	21.86	21.71	21.69		
20	256QAM	1	0	19.93	19.93	19.98	19.94	19.94		
20	256QAM	1	49	19.84	19.84	19.92	19.80	19.83	21	2
20	256QAM	1	99	19.89	19.84	19.95	19.82	19.89		
20	256QAM	50	0	20.02	19.92	20.06	19.98	19.93		
20	256QAM	50	24	19.78	19.76	19.93	19.83	19.81		
20	256QAM	50	50	19.78	19.81	19.88	19.77	19.75	21	2
20	256QAM	100	0	20.01	19.96	20.11	20.16	20.05		
Channel				39725	40173	40620	41058	41515		
Frequency (MHz)				2503.5	2546.5	2593	2637.5	2682.5		
15	QPSK	1	0	21.73	21.81	22.02	21.75	21.52		
15	QPSK	1	37	21.74	21.81	21.94	21.82	21.63	23.00	0
15	QPSK	1	74	21.75	21.80	21.83	21.73	21.82		
15	QPSK	36	0	21.80	21.80	21.92	21.82	21.71		
15	QPSK	36	20	21.89	21.86	21.91	21.74	21.89		
15	QPSK	36	39	21.74	21.77	22.02	21.75	21.80	23	0
15	QPSK	75	0	21.92	21.87	21.95	21.90	21.94		
15	16QAM	1	0	21.81	21.79	21.92	21.82	21.86		
15	16QAM	1	37	21.78	21.83	21.84	21.80	21.75	23	0
15	16QAM	1	74	21.67	21.65	21.85	21.70	21.60		
15	16QAM	36	0	21.71	21.80	21.80	21.73	21.67		
15	16QAM	36	20	21.63	21.80	21.75	21.78	21.65		
15	16QAM	36	39	21.61	21.65	21.81	21.73	21.61	23	0
15	16QAM	75	0	21.66	21.76	21.91	21.83	21.79		
15	64QAM	1	0	22.00	21.90	21.93	21.76	21.96		
15	64QAM	1	37	21.66	21.66	21.79	21.66	21.69	23	0
15	64QAM	1	74	21.74	21.71	21.71	21.82	21.73		
15	64QAM	36	0	21.72	21.64	21.81	21.54	21.68		
15	64QAM	36	20	21.73	21.82	21.79	21.71	21.72		
15	64QAM	36	39	21.70	21.67	21.77	21.64	21.74	23	0
15	64QAM	75	0	21.67	21.61	21.79	21.60	21.65		
15	256QAM	1	0	19.82	19.90	19.92	19.75	19.71		
15	256QAM	1	37	19.67	19.80	19.85	19.75	19.80	21	2
15	256QAM	1	74	19.87	19.70	19.81	19.66	19.78		
15	256QAM	36	0	20.00	19.76	19.88	19.77	19.77		
15	256QAM	36	20	19.75	19.69	19.82	19.81	19.69		
15	256QAM	36	39	19.64	19.65	19.77	19.70	19.67	21	2
15	256QAM	75	0	19.80	19.84	20.01	20.07	19.98		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.79	21.85	22.02	21.76	21.61		
10	QPSK	1	25	21.73	21.81	21.88	21.83	21.65	23.00	0
10	QPSK	1	49	21.82	21.90	21.94	21.65	21.78		
10	QPSK	25	0	21.85	21.83	21.98	21.76	21.72		
10	QPSK	25	12	21.79	21.84	21.91	21.83	22.00		
10	QPSK	25	25	21.78	21.86	21.95	21.87	21.83	23	0
10	QPSK	50	0	21.87	21.77	21.88	21.93	21.91		
10	16QAM	1	0	21.99	21.82	21.98	21.86	21.79		
10	16QAM	1	25	21.68	21.74	21.87	21.74	21.82		
10	16QAM	1	49	21.81	21.68	21.77	21.63	21.70	23	0
10	16QAM	25	0	21.65	21.78	21.75	21.76	21.72		
10	16QAM	25	12	21.64	21.75	21.83	21.77	21.70		
10	16QAM	25	25	21.67	21.63	21.79	21.75	21.66	23	0
10	16QAM	50	0	21.80	21.74	21.92	21.82	21.76		
10	64QAM	1	0	21.89	21.92	21.99	21.79	21.84		
10	64QAM	1	25	21.65	21.65	21.72	21.67	21.64		
10	64QAM	1	49	21.77	21.77	21.85	21.79	21.68	23	0
10	64QAM	25	0	21.63	21.80	21.73	21.55	21.58		
10	64QAM	25	12	21.77	21.86	21.87	21.67	21.75		
10	64QAM	25	25	21.77	21.80	21.99	21.75	21.71	23	0
10	64QAM	50	0	21.78	21.68	21.72	21.58	21.61		
10	256QAM	1	0	19.90	19.83	19.85	19.70	19.76		
10	256QAM	1	25	19.72	19.82	19.77	19.71	19.80		
10	256QAM	1	49	19.75	19.80	19.83	19.72	19.79	21	2
10	256QAM	25	0	19.86	19.81	19.93	19.84	19.85		
10	256QAM	25	12	19.63	19.68	19.85	19.74	19.67		
10	256QAM	25	25	19.68	19.78	19.83	19.65	19.65		
10	256QAM	50	0	19.89	19.78	20.04	20.13	19.92		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.82	21.89	21.99	21.87	21.58		
5	QPSK	1	12	21.74	21.79	21.89	21.74	21.64	23.00	0
5	QPSK	1	24	21.76	21.79	21.78	21.75	21.73		
5	QPSK	12	0	21.75	21.79	21.89	21.82	21.83		
5	QPSK	12	7	21.86	21.81	22.00	21.74	21.94	23	0
5	QPSK	12	13	21.77	21.80	21.99	21.85	21.82		
5	QPSK	25	0	21.87	21.81	21.87	21.84	21.93		
5	16QAM	1	0	21.96	21.78	21.98	21.90	21.85		
5	16QAM	1	12	21.66	21.70	21.81	21.71	21.76		
5	16QAM	1	24	21.68	21.75	21.87	21.69	21.71	23	0
5	16QAM	12	0	21.73	21.79	21.85	21.73	21.71		
5	16QAM	12	7	21.69	21.77	21.85	21.83	21.67		
5	16QAM	12	13	21.69	21.70	21.83	21.66	21.61		
5	16QAM	25	0	21.78	21.77	21.85	21.75	21.80		
5	64QAM	1	0	21.87	21.85	21.93	21.81	21.86		
5	64QAM	1	12	21.74	21.66	21.83	21.63	21.75		
5	64QAM	1	24	21.78	21.79	21.77	21.69	21.64	23	0
5	64QAM	12	0	21.61	21.67	21.76	21.59	21.60		
5	64QAM	12	7	21.77	21.82	21.80	21.75	21.79		
5	64QAM	12	13	21.85	21.77	21.75	21.66	21.59		
5	64QAM	25	0	21.80	21.69	21.71	21.61	21.73		
5	256QAM	1	0	19.77	19.81	19.85	19.77	19.68		
5	256QAM	1	12	19.68	19.79	19.85	19.63	19.80		
5	256QAM	1	24	19.77	19.70	19.86	19.71	19.77	21	2
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Band 42 Part96 Ant2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				43190	43340	43490			
Frequency (MHz)				3560	3575	3590			
20	QPSK	1	0	2127	2155	2116	22.5	0	
20	QPSK	1	49	2132	2133	2117			
20	QPSK	1	99	2121	2125	2117			
20	QPSK	50	0	2133	2137	2129	22	0.5	
20	QPSK	50	24	2118	2140	2118			
20	QPSK	50	50	2116	2124	2124			
20	QPSK	100	0	2030	2033	2029	22	0.5	
20	16QAM	1	0	2113	2126	2117			
20	16QAM	1	49	2114	2119	2108			
20	16QAM	1	99	2101	2123	2104	21.5	1	
20	16QAM	50	0	2136	2112	2121			
20	16QAM	50	24	2129	2122	2128			
20	16QAM	50	50	2108	2120	2101	22	0.5	
20	16QAM	100	0	1956	1990	1952			
20	64QAM	1	0	2125	2140	2135			
20	64QAM	1	49	2139	2129	2128	20.5	2	
20	64QAM	1	99	2108	2125	2111			
20	64QAM	50	0	2024	2015	1996			
20	64QAM	50	24	2019	2004	2018	19	3.5	
20	64QAM	50	50	2012	2034	2012			
20	64QAM	100	0	1866	1858	1873			
20	256QAM	1	0	1831	1837	1833	19	3.5	
20	256QAM	1	49	1827	1834	1820			
20	256QAM	1	99	1813	1827	1810			
20	256QAM	50	0	1819	1830	1816	19	3.5	
20	256QAM	50	24	1837	1833	1832			
20	256QAM	50	50	1814	1821	1815			
20	256QAM	100	0	1832	1837	1832			
Channel				43165	43340	43515			
Frequency (MHz)				3557.5	3575	3592.5			
15	QPSK	1	0	2131	2145	2116	22.5	0	
15	QPSK	1	37	2126	2123	2120			
15	QPSK	1	74	2119	2129	2117			
15	QPSK	36	0	2123	2137	2121	22	0.5	
15	QPSK	36	20	2128	2129	2122			
15	QPSK	36	39	2113	2131	2115			
15	QPSK	75	0	2034	2028	2021	22	0.5	
15	16QAM	1	0	2119	2124	2124			
15	16QAM	1	37	2109	2127	2117			
15	16QAM	1	74	2110	2119	2101	21.5	1	
15	16QAM	36	0	2135	2111	2120			
15	16QAM	36	20	2129	2119	2120			
15	16QAM	36	39	2114	2118	2103	22	0.5	
15	16QAM	75	0	2136	2140	2131			
15	64QAM	1	0	2120	2133	2136			
15	64QAM	1	37	2127	2143	2127	20.5	2	
15	64QAM	1	74	2120	2128	2114			
15	64QAM	36	0	2024	2002	2000			
15	64QAM	36	20	2021	2002	2008	19	3.5	
15	64QAM	36	39	2018	2029	2011			
15	64QAM	75	0	2033	2048	2045			
15	256QAM	1	0	1839	1836	1835	19	3.5	
15	256QAM	1	37	1819	1842	1824			
15	256QAM	1	74	1819	1820	1813			
15	256QAM	36	0	1815	1830	1825	19	3.5	
15	256QAM	36	20	1828	1830	1829			
15	256QAM	36	39	1820	1829	1816			
15	256QAM	75	0	1822	1832	1839			
Channel				43140	43340	43540			
Frequency (MHz)				3555	3575	3595			
10	QPSK	1	0	2123	2149	2121	22.5	0	
10	QPSK	1	25	2132	2125	2124			
10	QPSK	1	49	2125	2135	2125			
10	QPSK	25	0	2132	2142	2132	22	0.5	
10	QPSK	25	12	2129	2131	2132			
10	QPSK	25	25	2120	2123	2113			
10	QPSK	50	0	2022	2038	2029	22	0.5	
10	16QAM	1	0	2114	2127	2127			
10	16QAM	1	25	2113	2119	2116			
10	16QAM	1	49	2109	2115	2100	21.5	1	
10	16QAM	25	0	2137	2115	2114			
10	16QAM	25	12	2126	2114	2115			
10	16QAM	25	25	2100	2124	2108	22	0.5	
10	16QAM	50	0	2130	2146	2126			
10	64QAM	1	0	2125	2126	2127			
10	64QAM	1	25	2130	2139	2128	20.5	2	
10	64QAM	1	49	2122	2123	2118			
10	64QAM	25	0	2012	2006	2000			
10	64QAM	25	12	2022	2001	2014	19	3.5	
10	64QAM	25	25	2020	2028	2009			
10	64QAM	50	0	2043	2050	2040			
10	256QAM	1	0	1838	1847	1834	19	3.5	
10	256QAM	1	25	1829	1831	1814			
10	256QAM	1	49	1819	1829	1821			
10	256QAM	25	0	1821	1828	1826	19	3.5	
10	256QAM	25	12	1837	1842	1838			
10	256QAM	25	25	1814	1830	1820			
10	256QAM	50	0	1831	1842	1827			
Channel				43115	43340	43665			
Frequency (MHz)				3562.5	3575	3597.5			
5	QPSK	1	0	2132	2143	2124	22.5	0	
5	QPSK	1	12	2126	2133	2122			
5	QPSK	1	24	2112	2128	2123			
5	QPSK	12	0	2129	2135	2126	22	0.5	
5	QPSK	12	7	2123	2139	2126			
5	QPSK	12	13	2122	2132	2116			
5	QPSK	25	0	2033	2035	2035	22	0.5	
5	16QAM	1	0	2113	2133	2124			
5	16QAM	1	12	2113	2131	2114			
5	16QAM	1	24	2105	2122	2109	21.5	1	
5	16QAM	12	0	2135	2114	2114			
5	16QAM	12	7	2124	2116	2117			
5	16QAM	12	13	2110	2123	2107	22	0.5	
5	16QAM	25	0	2129	2140	2134			
5	64QAM	1	0	2124	2125	2122			
5	64QAM	1	12	2136	2131	2138	20.5	2	
5	64QAM	1	24	2123	2127	2119			
5	64QAM	12	0	2019	2011	2006			
5	64QAM	12	7	2019	2009	2012	19	3.5	
5	64QAM	12	13	2008	2030	2016			
5	64QAM	25	0	2039	2049	2039			
5	256QAM	1	0	1827	1845	1835	19	3.5	
5	256QAM	1	12	1819	1836	1816			
5	256QAM	1	24	1811	1816	1809			
5	256QAM	12	0	1819	1827	1819	19	3.5	
5	256QAM	12	7	1828	1830	1834			

Band 42 Part27Q Ant2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	2145	2165	2139	22.5	0	
20	QPSK	1	49	2143	2147	2137			
20	QPSK	1	99	2136	2149	2140			
20	QPSK	50	0	2143	2154	2142	22	0.5	
20	QPSK	50	24	2141	2150	2142			
20	QPSK	50	50	2138	2142	2136			
20	QPSK	100	0	2045	2051	2045	22	0.5	
20	16QAM	1	0	2135	2149	2139			
20	16QAM	1	49	2130	2142	2129			
20	16QAM	1	99	2123	2137	2122	21.5	1	
20	16QAM	50	0	2148	2130	2136			
20	16QAM	50	24	2146	2132	2140			
20	16QAM	50	50	2124	2139	2124	22	0.5	
20	16QAM	100	0	1966	1951	1967			
20	64QAM	1	0	2137	2150	2146			
20	64QAM	1	49	2150	2154	2150	20.5	2	
20	64QAM	1	99	2133	2144	2131			
20	64QAM	50	0	2036	2026	2022			
20	64QAM	50	24	2030	2024	2031	19	3.5	
20	64QAM	50	50	2033	2044	2030			
20	64QAM	100	0	1855	1850	1867			
20	256QAM	1	0	1851	1858	1852	19	3.5	
20	256QAM	1	49	1842	1853	1839			
20	256QAM	1	99	1830	1839	1831			
20	256QAM	50	0	1838	1852	1838	19	3.5	
20	256QAM	50	24	1848	1854	1851			
20	256QAM	50	50	1834	1843	1833			
20	256QAM	100	0	1845	1853	1850			
Channel				42165	42590	43015			
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	2151	2160	2143	22.5	0	
15	QPSK	1	37	2135	2139	2132			
15	QPSK	1	74	2122	2143	2124			
15	QPSK								

5	256QAM	12	13	18.21	18.33	18.09		
5	256QAM	25	0	18.24	18.36	18.33		

5	256QAM	12	13	18.23	18.29	18.23		
5	256QAM	25	0	18.31	18.41	18.34		

Band 43 Ant2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				43990	43990	44390			
Frequency (MHz)				3610	3650	3690			
20	QPSK	1	0	21.56	21.72	21.64	22.5	0	
20	QPSK	1	49	21.53	21.57	21.42			
20	QPSK	1	99	21.56	21.60	21.54			
20	QPSK	50	0	21.62	21.68	21.64	22	0.5	
20	QPSK	50	24	21.61	21.66	21.54			
20	QPSK	50	50	21.55	21.61	21.53			
20	QPSK	100	0	20.53	20.62	20.50	22	0.5	
20	16QAM	1	0	21.48	21.55	21.47			
20	16QAM	1	49	21.50	21.57	21.44			
20	16QAM	1	99	21.46	21.60	21.51	21.5	1	
20	16QAM	50	0	21.40	21.44	21.33			
20	16QAM	50	24	21.34	21.43	21.38			
20	16QAM	50	50	21.38	21.45	21.30	22	0.5	
20	16QAM	100	0	19.56	19.63	19.58			
20	16QAM	1	0	21.57	21.65	21.52			
20	64QAM	1	49	21.55	21.63	21.52	20.5	2	
20	64QAM	50	0	20.40	20.46	20.36			
20	64QAM	50	24	20.33	20.46	20.36			
20	64QAM	50	50	20.44	20.48	20.36	19	3.5	
20	64QAM	100	0	18.57	18.64	18.53			
20	256QAM	1	0	18.43	18.47	18.35			
20	256QAM	1	49	18.44	18.58	18.48	19	3.5	
20	256QAM	1	99	18.36	18.48	18.39			
20	256QAM	50	0	18.52	18.62	18.51			
20	256QAM	50	24	18.57	18.64	18.57	19	3.5	
20	256QAM	50	50	18.48	18.63	18.55			
20	256QAM	100	0	18.52	18.60	18.54			
Channel				43565	43990	44415			
Frequency (MHz)				3607.5	3650	3692.5			
15	QPSK	1	0	21.54	21.67	21.60	22.5	0	
15	QPSK	1	37	21.33	21.44	21.45			
15	QPSK	1	74	21.37	21.57	21.47			
15	QPSK	36	0	21.49	21.58	21.48	22	0.5	
15	QPSK	36	20	21.48	21.55	21.47			
15	QPSK	36	39	21.48	21.53	21.37			
15	QPSK	75	0	21.45	21.55	21.42	22	0.5	
15	16QAM	1	0	21.45	21.41	21.39			
15	16QAM	1	37	21.44	21.46	21.33			
15	16QAM	1	74	21.42	21.56	21.41	21.5	1	
15	16QAM	36	0	21.21	21.34	21.25			
15	16QAM	36	20	21.28	21.36	21.28			
15	16QAM	36	39	21.31	21.34	21.30	22	0.5	
15	16QAM	75	0	21.23	21.39	21.26			
15	64QAM	1	0	21.48	21.56	21.47			
15	64QAM	1	37	21.45	21.59	21.46	20.5	2	
15	64QAM	1	74	21.48	21.59	21.47			
15	64QAM	36	0	20.32	20.34	20.25			
15	64QAM	36	20	20.19	20.41	20.25	19	3.5	
15	64QAM	36	39	20.34	20.44	20.33			
15	64QAM	75	0	20.26	20.37	20.28			
15	256QAM	1	0	18.25	18.34	18.31	19	3.5	
15	256QAM	1	37	18.43	18.54	18.43			
15	256QAM	1	74	18.28	18.45	18.32			
15	256QAM	36	0	18.39	18.51	18.46	19	3.5	
15	256QAM	36	20	18.40	18.55	18.54			
15	256QAM	36	39	18.39	18.50	18.36			
15	256QAM	75	0	18.48	18.55	18.44			
Channel				43540	43990	44440			
Frequency (MHz)				3605	3650	3695			
10	QPSK	1	0	21.53	21.59	21.49	22.5	0	
10	QPSK	1	25	21.37	21.51	21.45			
10	QPSK	1	49	21.41	21.53	21.52			
10	QPSK	25	0	21.46	21.55	21.49	22	0.5	
10	QPSK	25	12	21.46	21.61	21.41			
10	QPSK	25	25	21.41	21.52	21.45			
10	QPSK	50	0	21.51	21.54	21.42	22	0.5	
10	16QAM	1	0	21.35	21.44	21.43			
10	16QAM	1	25	21.47	21.52	21.42			
10	16QAM	1	49	21.41	21.55	21.49	21.5	1	
10	16QAM	25	0	21.16	21.31	21.17			
10	16QAM	25	12	21.21	21.39	21.32			
10	16QAM	25	25	21.36	21.39	21.28	22	0.5	
10	16QAM	50	0	21.23	21.32	21.28			
10	64QAM	1	0	21.40	21.59	21.53			
10	64QAM	1	25	21.50	21.53	21.49	20.5	2	
10	64QAM	1	49	21.49	21.56	21.54			
10	64QAM	25	0	20.27	20.31	20.21			
10	64QAM	25	12	20.17	20.39	20.22	19	3.5	
10	64QAM	25	25	20.31	20.34	20.34			
10	64QAM	50	0	20.50	20.50	20.44			
10	256QAM	1	0	18.26	18.38	18.27	19	3.5	
10	256QAM	1	25	18.40	18.43	18.39			
10	256QAM	1	49	18.32	18.38	18.24			
10	256QAM	25	0	18.37	18.56	18.45	19	3.5	
10	256QAM	25	12	18.41	18.52	18.56			
10	256QAM	25	25	18.41	18.54	18.41			
10	256QAM	50	0	18.52	18.47	18.41			
Channel				43515	43990	44465			
Frequency (MHz)				3602.5	3650	3697.5			
5	QPSK	1	0	21.54	21.63	21.57	22.5	0	
5	QPSK	1	12	21.41	21.51	21.37			
5	QPSK	1	24	21.39	21.56	21.45			
5	QPSK	12	0	21.46	21.64	21.45	22	0.5	
5	QPSK	12	7	21.52	21.57	21.41			
5	QPSK	12	13	21.41	21.54	21.46			
5	QPSK	25	0	21.49	21.59	21.43	22	0.5	
5	16QAM	1	0	21.45	21.40	21.34			
5	16QAM	1	12	21.41	21.45	21.41			
5	16QAM	1	24	21.43	21.56	21.42	21.5	1	
5	16QAM	12	0	21.18	21.31	21.18			
5	16QAM	12	7	21.25	21.38	21.28			
5	16QAM	12	13	21.26	21.38	21.24	22	0.5	
5	16QAM	25	0	21.32	21.33	21.22			
5	64QAM	1	0	21.38	21.57	21.53			
5	64QAM	1	12	21.47	21.54	21.51	20.5	2	
5	64QAM	1	24	21.52	21.58	21.49			
5	64QAM	12	0	20.33	20.32	20.26			
5	64QAM	12	7	20.24	20.34	20.22	19	3.5	
5	64QAM	12	13	20.31	20.35	20.37			
5	64QAM	25	0	20.28	20.41	20.24			
5	256QAM	1	0	18.27	18.33	18.37	19	3.5	
5	256QAM	1	12	18.38	18.47	18.46			
5	256QAM	1	24	18.30	18.33	18.32			
5	256QAM	12	0	18.42	18.53	18.46	19	3.5	
5	256QAM	12	7	18.45	18.50	18.56			

Band 48 Ant2 DSI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				55390	55390	56190			
Frequency (MHz)				3560	3609	3641			
20	QPSK	1	0	21.63	21.85	21.64	22.5	0	
20	QPSK	1	49	21.66	21.69	21.62			
20	QPSK	1	99	21.63	21.73	21.69			
20	QPSK	50	0	21.65	21.75	21.69	22	0.5	
20	QPSK	50	24	21.61	21.73	21.63			
20	QPSK	50	50	21.68	21.71	21.66			
20	QPSK	100	0	20.70	20.74	20.69	22	0.5	
20	16QAM	1	0	21.54	21.63	21.54			
20	16QAM	1	49	21.57	21.68	21.62			
20	16QAM	1	99	21.49	21.60	21.55	21.5	1	
20	16QAM	50	0	21.32	21.46	21.38			
20	16QAM	50	24	21.33	21.47	21.35			
20	16QAM	50	50	21.37	21.39	21.36	22	0.5	
20	16QAM	100	0	19.69	19.76	19.63			
20	64QAM	1	0	21.66	21.74	21.59			
20	64QAM	1	49	21.63	21.68	21.54	20.5	2	
20	64QAM	50	0	20.28	20.46	20.32			
20	64QAM	50	24	20.24	20.35	20.30			
20	64QAM	50	50	20.26	20.32	20.21	19	3.5	
20	64QAM	100	0	18.76	18.80	18.73			
20	256QAM	1	0	18.72	18.78	18.69			
20	256QAM	1	49	18.64	18.69	18.59	19	3.5	
20	256QAM	1	99	18.59	18.72	18.62			
20	256QAM	50	0	18.57	18.71	18.63			
20	256QAM	50	24	18.57	18.64	18.56	19	3.5	
20	256QAM	50	50	18.61	18.66	18.52			
20	256QAM	100	0	18.73	18.76	18.65			
Channel				55315	55890	56160			
Frequency (MHz)				3557.5	3608	3692.5			
15	QPSK								

5	256QAM	12	13	18.46	18.51	18.42		
5	256QAM	25	0	18.45	18.54	18.45		

5	256QAM	12	13	18.55	18.59	18.39	18.46		
5	256QAM	25	0	18.59	18.71	18.55	18.54		



Uplink CA Power

Ant0 Full Power&DS16

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.78	24.00
21100	21298	QPSK	1	99	1	0	22.94	24.00
21350	21152	QPSK	1	0	1	99	22.94	24.00

Ant0 Full Power&DS16

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.76	24.00
37901	38099	QPSK	1	99	1	0	22.78	24.00
38150	37952	QPSK	1	0	1	99	22.87	24.00

Ant0 Full Power&DS16

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	25.16	27.00
37901	38099	QPSK	1	99	1	0	25.37	27.00
38150	37952	QPSK	1	0	1	99	25.22	27.00

Ant0 Full Power&DS16

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.85	24.00
40185	40383	QPSK	1	99	1	0	22.91	24.00
40620	40818	QPSK	1	99	1	0	22.89	24.00
41055	41253	QPSK	1	99	1	0	22.87	24.00
41490	41292	QPSK	1	0	1	99	22.89	24.00

Ant0 Full Power&DS16

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.34	27.00
40185	40383	QPSK	1	99	1	0	25.23	27.00
40620	40818	QPSK	1	99	1	0	25.46	27.00
41055	41253	QPSK	1	99	1	0	25.19	27.00
41490	41292	QPSK	1	0	1	99	25.26	27.00

Ant1 Full Power&DS16

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	21.44	23.00
21100	21298	QPSK	1	99	1	0	21.48	23.00
21350	21152	QPSK	1	0	1	99	21.39	23.00

Ant1 Full Power&DS16

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	21.75	23.00
37901	38099	QPSK	1	99	1	0	21.81	23.00
38150	37952	QPSK	1	0	1	99	21.83	23.00

Ant1 Full Power&DS16

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	24.31	26.00
37901	38099	QPSK	1	99	1	0	24.49	26.00
38150	37952	QPSK	1	0	1	99	24.20	26.00

Ant1 Full Power&DS16

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.85	23.00
40185	40383	QPSK	1	99	1	0	21.86	23.00
40620	40818	QPSK	1	99	1	0	21.99	23.00
41055	41253	QPSK	1	99	1	0	21.93	23.00
41490	41292	QPSK	1	0	1	99	21.97	23.00

Ant1 Full Power&DS16

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	24.36	26.00
40185	40383	QPSK	1	99	1	0	24.43	26.00
40620	40818	QPSK	1	99	1	0	24.48	26.00
41055	41253	QPSK	1	99	1	0	24.31	26.00
41490	41292	QPSK	1	0	1	99	24.23	26.00



Ant0 Down Power_DS13 Standalone

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	22.06	23.50		
21100	21298	QPSK	1	99	1	0	22.26	23.50		
21350	21152	QPSK	1	0	1	99	22.15	23.50		

Ant0 Down Power_DS13 Simultaneous

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	20.19	21.70		
21100	21298	QPSK	1	99	1	0	20.31	21.70		
21350	21152	QPSK	1	0	1	99	20.11	21.70		

Ant0 Down Power_DS13 Simultaneous

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	21.41	24.00		
37901	38099	QPSK	1	99	1	0	21.46	24.00		
38150	37952	QPSK	1	0	1	99	21.35	24.00		

Ant0 Down Power_HPUE_DS13 Simultaneous

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	23.20	24.00		
37901	38099	QPSK	1	99	1	0	23.37	24.00		
38150	37952	QPSK	1	0	1	99	23.16	24.00		

Ant0 Down Power_DS13 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	22.21	24.00		
40185	40383	QPSK	1	99	1	0	22.13	24.00		
40620	40818	QPSK	1	99	1	0	22.37	24.00		
41055	41253	QPSK	1	99	1	0	22.32	24.00		
41490	41292	QPSK	1	0	1	99	22.24	24.00		

Ant0 Down Power_HPUE_DS13 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	24.03	26.10		
40185	40383	QPSK	1	99	1	0	24.15	26.10		
40620	40818	QPSK	1	99	1	0	24.26	26.10		
41055	41253	QPSK	1	99	1	0	24.20	26.10		
41490	41292	QPSK	1	0	1	99	24.11	26.10		

Ant1 Down Power_DS12 Standalone

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	15.55	16.70		
21100	21298	QPSK	1	99	1	0	15.61	16.70		
21350	21152	QPSK	1	0	1	99	15.43	16.70		

Ant1 Down Power_DS12 Simultaneous

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	14.06	15.40		
37901	38099	QPSK	1	99	1	0	14.25	15.40		
38150	37952	QPSK	1	0	1	99	14.11	15.40		

Ant1 Down Power_DS12 Standalone

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	17.86	19.60		
37901	38099	QPSK	1	99	1	0	18.08	19.60		
38150	37952	QPSK	1	0	1	99	17.95	19.60		

Ant1 Down Power_DS12 Simultaneous

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	16.39	18.30		
37901	38099	QPSK	1	99	1	0	16.48	18.30		
38150	37952	QPSK	1	0	1	99	16.41	18.30		

Ant1 Down Power_HPUE_DS12 Standalone

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	19.57	21.20		
37901	38099	QPSK	1	99	1	0	19.76	21.20		
38150	37952	QPSK	1	0	1	99	19.64	21.20		

Ant1 Down Power_HPUE_DS12 Simultaneous

CA_38C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
37825	37975	QPSK	1	99	1	0	18.11	19.90		
38000	38150	QPSK	1	99	1	0	18.33	19.90		
38175	38025	QPSK	1	0	1	99	18.23	19.90		

Ant1 Down Power_DS12 Standalone

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	17.98	19.60		
40185	40383	QPSK	1	99	1	0	18.06	19.60		
40620	40818	QPSK	1	99	1	0	18.11	19.60		
41055	41253	QPSK	1	99	1	0	18.08	19.60		
41490	41292	QPSK	1	0	1	99	17.86	19.60		

Ant1 Down Power_DS12 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	16.44	18.30		
40185	40383	QPSK	1	99	1	0	16.38	18.30		
40620	40818	QPSK	1	99	1	0	16.55	18.30		
41055	41253	QPSK	1	99	1	0	16.51	18.30		
41490	41292	QPSK	1	0	1	99	16.40	18.30		

Ant1 Down Power_HPUE_DS12 Standalone

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	19.53	21.20		
40185	40383	QPSK	1	99	1	0	19.71	21.20		
40620	40818	QPSK	1	99	1	0	19.78	21.20		
41055	41253	QPSK	1	99	1	0	19.57	21.20		
41490	41292	QPSK	1	0	1	99	19.66	21.20		

Ant1 Down Power_HPUE_DS12 Simultaneous

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)		
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	18.06	19.90		
40185	40383	QPSK	1	99	1	0	18.25	19.90		
40620	40818	QPSK	1	99	1	0	18.39	19.90		
41055	41253	QPSK	1	99	1	0	18.18	19.90		
41490	41292	QPSK	1	0	1	99	18.32	19.90		



Ant1 Down Power_DSI3 Standalone

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.41	19.60
21100	21298	QPSK	1	99	1	0	18.52	19.60
21350	21152	QPSK	1	0	1	99	18.46	19.60

Ant1 Down Power DSI6

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	20.17	21.70
21100	21298	QPSK	1	99	1	0	20.22	21.70
21350	21152	QPSK	1	0	1	99	20.10	21.70

Ant1 Down Power DSI3 Simultaneous

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	16.43	17.60
21100	21298	QPSK	1	99	1	0	16.47	17.60
21350	21152	QPSK	1	0	1	99	16.32	17.60

Ant1 Down Power DSI3 Standalone

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.40	22.20
37901	38099	QPSK	1	99	1	0	20.52	22.20
38150	37952	QPSK	1	0	1	99	20.38	22.20

Ant1 Down Power DSI3 Simultaneous

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	18.73	21.00
37901	38099	QPSK	1	99	1	0	18.84	21.00
38150	37952	QPSK	1	0	1	99	18.69	21.00

Ant1 Down Power HPUE DSI3 Standalone

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.06	23.80
37901	38099	QPSK	1	99	1	0	22.21	23.80
38150	37952	QPSK	1	0	1	99	22.13	23.80

Ant1 Down Power HPUE DSI3 Simultaneous

CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	20.65	22.60
37901	38099	QPSK	1	99	1	0	20.68	22.60
38150	37952	QPSK	1	0	1	99	20.61	22.60

Ant1 Down Power_DSI3 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.41	22.20
40185	40383	QPSK	1	99	1	0	20.32	22.20
40620	40818	QPSK	1	99	1	0	20.58	22.20
41055	41253	QPSK	1	99	1	0	20.55	22.20
41490	41292	QPSK	1	0	1	99	20.36	22.20

Ant1 Down Power DSI3 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.72	21.00
40185	40383	QPSK	1	99	1	0	18.70	21.00
40620	40818	QPSK	1	99	1	0	18.89	21.00
41055	41253	QPSK	1	99	1	0	18.68	21.00
41490	41292	QPSK	1	0	1	99	18.82	21.00

Ant1 Down Power HPUE DSI3 Standalone

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.01	23.80
40185	40383	QPSK	1	99	1	0	21.92	23.80
40620	40818	QPSK	1	99	1	0	22.29	23.80
41055	41253	QPSK	1	99	1	0	22.26	23.80
41490	41292	QPSK	1	0	1	99	22.12	23.80

Ant1 Down Power HPUE DSI3 Simultaneous

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.66	22.60
40185	40383	QPSK	1	99	1	0	20.61	22.60
40620	40818	QPSK	1	99	1	0	20.77	22.60
41055	41253	QPSK	1	99	1	0	20.71	22.60
41490	41292	QPSK	1	0	1	99	20.69	22.60



Downlink CA Power

2CA DL

CA List	PCC										SCC				Power	
	LTE Band	BW	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	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	Act															
CA_2C	Band 2	An0	20M	1880	1890	QPSK	1	0		Band 2	20M	1980	1098		22.41	22.51
	Band 2	An1	20M	1880	1890	QPSK	1	0		Band 2	20M	1980	1098		21.57	21.58
CA_2A-4A	Band 2	An0	20M	1880	1890	QPSK	1	0		Band 4	20M	2133	2175	4xMIMO	22.32	22.51
	Band 4	An0	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 2	20M	1980	900		22.63	22.76
	Band 2	An1	20M	1880	1890	QPSK	1	0		Band 4	20M	2133	2175	4xMIMO	21.44	21.58
	Band 4	An1	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 2	20M	1980	900		21.88	22.09
CA_2A-5A	Band 2	An0	20M	1880	1890	QPSK	1	0		Band 5	10M	881.5	2525		22.29	22.51
	Band 5	An0	10M	836.5	2052.5	QPSK	1	0		Band 2	20M	1980	900		22.42	22.66
	Band 2	An1	20M	1880	1890	QPSK	1	0		Band 5	10M	881.5	2525		21.39	21.68
	Band 5	An1	10M	836.5	2052.5	QPSK	1	0		Band 2	20M	1980	900		22.32	22.48
CA_2A-7A	Band 2	An0	20M	1880	1890	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.40	22.51
	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 2	20M	1980	900		22.86	23.04
CA_2A-6A	Band 2	An0	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	22.35	22.51
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1980	900		22.63	22.80
	Band 2	An1	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	66886	4xMIMO	21.46	21.58
	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 2	20M	1980	900		21.95	22.16
CA_4A-5A	Band 4	An0	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.66	22.76
	Band 5	An0	10M	836.5	2052.5	QPSK	1	0		Band 4	20M	2133	2175	4xMIMO	22.45	22.86
	Band 4	An1	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		21.93	22.09
	Band 5	An1	10M	836.5	2052.5	QPSK	1	0		Band 4	20M	2133	2175	4xMIMO	22.23	22.48
CA_4A-7A	Band 4	An0	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.55	22.76
	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 4	20M	2133	2175	4xMIMO	22.86	23.04
	Band 4	An1	20M	1732.5	2017.5	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	21.96	22.09
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 4	20M	2133	2175	4xMIMO	22.10	22.21
CA_5A-41A	Band 5	An0	10M	836.5	2052.5	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	22.46	22.66
	Band 41	An0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		23.11	23.20
	Band 5	An1	10M	836.5	2052.5	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	22.30	22.48
	Band 41	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.08	22.09
CA_5A-66A	Band 5	An0	10M	836.5	2052.5	QPSK	1	0		Band 66	20M	2145	66786	4xMIMO	22.48	22.66
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.63	22.80
	Band 5	An1	10M	836.5	2052.5	QPSK	1	0		Band 66	20M	2145	66786	4xMIMO	22.32	22.48
	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		22.02	22.16
CA_7B	Band 7	An0	15M	2535	2110	QPSK	1	0	4xMIMO	Band 7	5M	2544	3193	4xMIMO	22.96	23.04
	Band 7	An1	15M	2535	2110	QPSK	1	0	4xMIMO	Band 7	5M	2544	3193	4xMIMO	22.03	22.21
CA_7C	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 7	20M	2555	3298	4xMIMO	22.86	23.04
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 7	20M	2555	3298	4xMIMO	22.05	22.21
CA_7A-7A	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 7	5M	2688	3425	4xMIMO	22.86	23.04
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 7	5M	2688	3425	4xMIMO	21.98	22.21
CA_7A-26A	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		22.86	23.04
	Band 26	An0	15M	831.5	2886.5	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.56	22.64
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		22.10	22.21
	Band 26	An1	15M	831.5	2886.5	QPSK	1	0		Band 7	20M	2655	3100	4xMIMO	22.49	22.65
CA_7A-32A	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 32	20M	1474	10140		23.01	23.04
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 32	20M	1474	10140		22.13	22.21
CA_7A-42A	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.85	23.04
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.01	22.21
CA_7A-66A	Band 42	An2	20M	3500	42590	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	21.61	21.65
	Band 7	An0	20M	2535	2110	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	22.88	23.04
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	22.62	22.80
	Band 7	An1	20M	2535	2110	QPSK	1	0	4xMIMO	Band 66	20M	2145	66786	4xMIMO	22.04	22.21
CA_26A-41A	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 7	20M	2655	3100	4xMIMO	21.97	22.16
	Band 26	An0	15M	831.5	2886.5	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	22.46	22.64
	Band 41	An0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		23.11	23.20
	Band 26	An1	15M	831.5	2886.5	QPSK	1	0		Band 41	20M	2593	40620	4xMIMO	22.48	22.65
CA_38C	Band 41	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 26	15M	876.5	8865		22.05	22.09
	Band 38	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 38	15M	26.1	38150	4xMIMO	23.16	23.19
CA_41C	Band 38	An0	15M	2595	38000	QPSK	1	0		Band 38	20M	2615	38198	4xMIMO	21.86	22.01
	Band 41	An0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2613	40818	4xMIMO	23.02	23.20
CA_41A-41A	Band 41	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2613	40818	4xMIMO	21.90	22.09
	Band 41	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2688	41565	4xMIMO	23.00	23.20
CA_41A-42A	Band 41	An0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	5M	2688	41565	4xMIMO	21.86	22.09
	Band 41	An1	20M	2593	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	22.98	23.20
CA_42C	Band 42	An2	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	21.86	22.09
	Band 42	An2	20M	3500	42590	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	21.53	21.65
CA_66B	Band 66	An0	15M	1745	132322	QPSK	1	0	4xMIMO	Band 42	15M	3517	42761	4xMIMO	21.59	21.65
	Band 66	An1	15M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2198	67311	4xMIMO	22.69	22.80
CA_66C	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2198	67311	4xMIMO	21.95	22.16
	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2175	67084	4xMIMO	22.59	22.80
CA_66D	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	20M	2175	67084	4xMIMO	21.94	22.16
	Band 66	An0	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2178	67111	4xMIMO	22.72	22.80
CA_66A-66A	Band 66	An1	20M	1745	132322	QPSK	1	0	4xMIMO	Band 66	5M	2178	67111	4xMIMO	22.03	22.16



3CA DL

SCA List	PCC										SCC1				SCC2				Power			
	LTE	BW	BW	UL	UL	UL	UL	UL	UL	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB	DL Antenna Configuration	DL Antenna Configuration	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-4A-5A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.49	22.51
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.62	22.76
	Band 5	AnH	10M	836.5	20525	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.54	22.66
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.45	21.58
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.93	22.09
CA_2A-4A-7A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.44	22.51
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.59	22.76
	Band 7	AnH	20M	2535	21100	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.88	23.04
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.42	21.58
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.98	22.09
CA_2A-5A-7A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.02	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.38	22.51
	Band 7	AnH	20M	2535	21100	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.47	22.66
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.86	23.04
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.41	21.58
CA_2A-5A-66A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.32	22.48
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.03	22.21
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.42	22.51
	Band 5	AnH	10M	836.5	20525	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.51	22.66
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.62	22.80
CA_2A-7C	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	21.45	21.58
	Band 5	AnH	10M	836.5	20525	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.38	22.48
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.98	22.16
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.35	22.51
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	23.04
CA_2A-7A-7A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	21.51	21.58
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.99	22.21
	Band 7	AnH	20M	2535	21100	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2697.5	3425	4x4MIMO	22.34	22.51
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	23.04
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	5M	2697.5	3425	4x4MIMO	Band 7	5M	2697.5	3425	4x4MIMO	21.46	21.58
CA_2A-7A-66A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.02	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.33	22.51
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.86	23.04
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.63	22.80
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	21.43	21.58
CA_4A-7C	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.02	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.91	22.16
	Band 7	AnH	20M	2535	21100	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.60	22.76
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.82	23.04
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.83	23.04
CA_5A-7C	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.05	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.42	22.66
	Band 7	AnH	20M	2535	21100	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.86	23.04
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.02	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.45	22.66
CA_5A-7A-66A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.45	22.66
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.02	22.21
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.92	23.04
	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.63	22.80
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.29	22.48
CA_5A-66A-66A	Band 2	AnH	20M	1880	1890	QPSK	1	0	4x4MIMO	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.01	22.21
	Band 4	AnH	20M	1732.5	20175	QPSK	1	0	4x4MIMO	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.15	22.21
	Band 66	AnH	20M	1745	132322	QPSK	1	0	4x4MIMO	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	22.46	22.66
	Band 2	AnH																				



Full Power level/Default Power level/ Pmax Power Level for 5GNR

n2 ANT0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	PUSC BPSK	1	1	23.11	23.16	23.26			
20	PUSC BPSK	1	53	22.97	23.10	23.21	24.0	0.0	
20	PUSC BPSK	1	103	23.15	23.15	23.26			
20	PUSC BPSK	50	0	23.02	23.14	23.29	24.0	0.0	
20	PUSC BPSK	50	50	23.11	23.21	23.17	24.0	0.0	
20	PUSC BPSK	50	100	23.02	23.09	23.27	24.0	0.0	
20	QPSK	1	1	23.15	23.15	23.26			
20	QPSK	1	53	23.17	23.21	23.26	24.0	0.0	
20	QPSK	50	0	23.13	23.20	23.29	24.0	0.0	
20	QPSK	50	50	23.12	23.20	23.16	24.0	0.0	
20	QPSK	50	100	23.12	23.18	23.22	24.0	0.0	
20	QPSK	100	0	23.08	23.08	23.26	24.0	0.0	
20	QPSK	100	50	23.15	23.15	23.26	24.0	0.0	
20	QPSK	100	100	23.15	23.22	23.14	24.0	0.0	
20	16QAM	1	1	23.09	23.07	23.17	22.5	1.5	
20	16QAM	1	1	19.75	19.87	19.77	22.5	3.5	
Channel									
Frequency (MHz)									
16	QPSK	1	1	23.05	23.12	23.25	24.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	23.15	23.11	23.24	24.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	23.08	23.14	23.26	24.0	0.0	

n5 ANT0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
20	PUSC BPSK	1	1	23.20	23.26	23.25			
20	PUSC BPSK	1	53	23.10	23.23	23.11	24.0	0.0	
20	PUSC BPSK	1	103	23.22	23.11	23.26			
20	PUSC BPSK	50	0	23.21	23.26	23.29	24.0	0.0	
20	PUSC BPSK	50	50	23.18	23.26	23.15	24.0	0.0	
20	PUSC BPSK	50	100	23.18	23.22	23.11	24.0	0.0	
20	QPSK	1	1	23.40	23.43	23.35			
20	QPSK	1	53	23.23	23.22	23.12	24.0	0.0	
20	QPSK	1	103	23.22	23.11	23.27			
20	QPSK	50	0	23.25	23.32	23.25	24.0	0.0	
20	QPSK	50	50	23.25	23.26	23.15	24.0	0.0	
20	QPSK	50	100	23.14	23.27	23.14	24.0	0.0	
20	QPSK	100	0	23.13	23.26	23.13	24.0	0.0	
20	QPSK	100	50	23.22	23.11	23.15	22.5	1.5	
20	16QAM	1	1	19.97	20.11	19.97	22.5	3.5	
Channel									
Frequency (MHz)									
16	QPSK	1	1	23.25	23.34	23.25	24.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	23.25	23.29	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	23.24	23.37	23.25	24.0	0.0	

n7 ANT0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUSC BPSK	1	1	23.21	23.31	23.28			
40	PUSC BPSK	1	108	23.22	23.28	23.16	24.0	0.0	
40	PUSC BPSK	1	214	23.20	23.21	23.15			
40	PUSC BPSK	108	0	23.22	23.34	23.20	24.0	0.0	
40	PUSC BPSK	108	54	23.20	23.24	23.18	24.0	0.0	
40	PUSC BPSK	108	108	23.18	23.28	23.22	24.0	0.0	
40	PUSC BPSK	216	0	23.28	23.25	23.22			
40	QPSK	1	1	23.17	23.18	23.28			
40	QPSK	1	108	23.20	23.31	23.23	24.0	0.0	
40	QPSK	1	214	23.15	23.24	23.20			
40	QPSK	108	0	23.07	23.17	23.14	24.0	0.0	
40	QPSK	108	54	23.23	23.27	23.23	24.0	0.0	
40	QPSK	108	108	23.11	23.22	23.13	24.0	0.0	
40	QPSK	216	0	23.18	23.25	23.18	24.0	0.0	
40	16QAM	1	1	21.28	21.83	21.24	22.5	1.5	
40	16QAM	1	1	19.28	19.82	19.25	22.5	3.5	
Channel									
Frequency (MHz)									
30	PUSC BPSK	1	1	23.08	23.32	23.22	24.0	0.0	
Channel									
Frequency (MHz)									
30	PUSC BPSK	1	1	23.09	23.27	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.22	23.33	23.17	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.01	23.22	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.05	23.26	23.17	24.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	23.02	23.24	23.12	24.0	0.0	

n66 ANT0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Media Ch. Freq. (MHz)	Power High Ch. Freq. (MHz)	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUSC BPSK	1	1	23.01	23.15	23.08			
40	PUSC BPSK	1	108	22.99	23.11	23.05	24.0	0.0	
40	PUSC BPSK	1	214	23.08	23.15	23.08			
40	PUSC BPSK	108	0	23.02	23.14	23.08	24.0	0.0	
40	PUSC BPSK	108	54	23.01	23.02	23.08	24.0	0.0	
40	PUSC BPSK	108	108	23.04	23.10	23.09	24.0	0.0	
40	PUSC BPSK	216	0	23.06	23.14	23.09			
40	QPSK	1	1	23.12	23.17	23.08	24.0	0.0	
40	QPSK	1	108	22.98	23.09	23.02	24.0	0.0	
40	QPSK	1	214	22.99	23.06	23.02			
40	QPSK	108	0	23.04	23.08	23.02	24.0	0.0	
40	QPSK	108	54	23.01	23.04	23.05	24.0	0.0	
40	QPSK	108	108	23.00	23.07	23.06	24.0	0.0	
40	QPSK	216	0	23.11	23.12	23.08	24.0	0.0	
40	16QAM	1	1	21.89	21.88	21.31	22.5	1.5	
40	16QAM	1	1	19.77	19.85	19.80	22.5	3.5	
Channel									
Frequency (MHz)									
30	PUSC BPSK	1	1	22.98	23.05	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
30	PUSC BPSK	1	1	22.99	23.04	23.02	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.14	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	23.05	23.11	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.06	23.04	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
8	QPSK	1	1	23.02	23.08	23.05	24.0	0.0	



n41 ANTO								
BW [MHz]	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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	23.44	23.49	23.37		
100	PI/2 BPSK	1	137	23.44	23.52	23.40	24.0	0.0
100	PI/2 BPSK	1	271	23.43	23.54	23.50		
100	PI/2 BPSK	135	0	22.92	23.02	22.92	23.5	0.5
100	PI/2 BPSK	135	69	23.34	23.47	23.39	24.0	0.0
100	PI/2 BPSK	135	138	22.95	23.06	22.99	23.5	0.5
100	PI/2 BPSK	270	0	23.01	23.07	23.00		
100	QPSK	1	1	23.20	23.37	23.43		
100	QPSK	1	137	23.39	23.46	23.42	24.0	0.0
100	QPSK	1	271	23.40	23.52	23.40		
100	QPSK	135	0	22.56	22.64	22.50	23.0	1.0
100	QPSK	135	69	23.42	23.55	23.46	24.0	0.0
100	QPSK	135	138	22.40	22.52	22.37	23.0	1.0
100	QPSK	270	0	22.48	22.50	22.56		
100	16QAM	1	1	22.73	22.79	22.64	23.0	1.0
100	64QAM	1	1	21.07	21.21	21.14	21.5	2.5
100	256QAM	1	1	18.97	19.03	18.98	19.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.16	23.48	23.33	24.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	23.12	23.52	23.31	24.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.11	23.43	23.30	24.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2639.98		
60	QPSK	1	1	23.07	23.44	23.39	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.15	23.52	23.32	24.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.10	23.42	23.31	24.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.12	23.53	23.40	24.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	23.11	23.52	23.39	24.0	0.0

n41 HPUE ANTO								
BW [MHz]	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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	26.43	26.60	26.51		
100	PI/2 BPSK	1	137	26.48	26.53	26.46	27.0	0.0
100	PI/2 BPSK	1	271	26.46	26.59	26.53		
100	PI/2 BPSK	135	0	26.56	26.61	26.49	27.0	0.0
100	PI/2 BPSK	135	69	26.38	26.50	26.36	27.0	0.0
100	PI/2 BPSK	135	138	26.43	26.57	26.54	27.0	0.0
100	PI/2 BPSK	270	0	26.41	26.55	26.51		
100	QPSK	1	1	26.21	26.53	26.50		
100	QPSK	1	137	26.42	26.56	26.49	27.0	0.0
100	QPSK	1	271	26.49	26.56	26.43		
100	QPSK	135	0	26.10	26.14	26.07	26.5	0.5
100	QPSK	135	69	26.53	26.57	26.52	27.0	0.0
100	QPSK	135	138	26.00	26.15	26.11	26.5	0.5
100	QPSK	270	0	26.10	26.16	26.02		
100	16QAM	1	1	26.42	26.48	26.33	26.5	0.5
100	64QAM	1	1	24.73	24.87	24.83	25.0	2.0
100	256QAM	1	1	22.50	22.57	22.45	23.0	4.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	26.16	26.48	26.36	27.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	26.11	26.50	26.38	27.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	26.06	26.50	26.35	27.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2639.98		
60	QPSK	1	1	26.15	26.57	26.39	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	26.09	26.57	26.37	27.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	26.06	26.51	26.41	27.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	26.09	26.54	26.39	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	26.13	26.57	26.36	27.0	0.0



n2 ANT1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max. Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
20	PI2-BPSK	1	1	22.31	22.36	22.25	24.0	0.0
20	PI2-BPSK	1	33	22.13	22.24	22.20	24.0	0.0
20	PI2-BPSK	1	104	22.22	22.31	22.22	24.0	0.0
20	PI2-BPSK	50	0	22.20	22.30	22.23	24.0	0.0
20	PI2-BPSK	50	20	22.10	22.28	22.22	24.0	0.0
20	PI2-BPSK	50	56	22.22	22.31	22.24	24.0	0.0
20	PI2-BPSK	100	0	22.17	22.27	22.18	24.0	0.0
20	QPSK	1	1	22.25	22.30	22.25	24.0	0.0
20	QPSK	1	33	22.21	22.28	22.23	24.0	0.0
20	QPSK	1	104	22.28	22.32	22.31	24.0	0.0
20	QPSK	50	0	22.11	22.28	22.21	24.0	0.0
20	QPSK	50	20	22.14	22.30	22.24	24.0	0.0
20	QPSK	50	56	22.15	22.30	22.15	24.0	0.0
20	QPSK	100	0	22.25	22.31	22.28	24.0	0.0
20	HQAM	1	1	21.80	21.14	21.08	22.5	1.5
20	HQAM	1	1	18.45	18.91	18.86	22.5	1.5
Channel								
15	QPSK	1	1	22.11	22.27	22.15	24.0	0.0
Channel								
10	QPSK	1	1	22.13	22.32	22.28	24.0	0.0
Channel								
5	QPSK	1	1	22.18	22.33	22.28	24.0	0.0

n5 ANT1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max. Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
20	PI2-BPSK	1	1	23.04	23.11	23.04	24.0	0.0
20	PI2-BPSK	1	33	22.86	22.94	22.86	24.0	0.0
20	PI2-BPSK	1	104	22.93	22.97	22.95	24.0	0.0
20	PI2-BPSK	50	0	23.04	23.11	23.06	24.0	0.0
20	PI2-BPSK	50	20	22.94	23.06	22.98	24.0	0.0
20	PI2-BPSK	50	56	22.88	22.98	22.87	24.0	0.0
20	PI2-BPSK	100	0	22.95	23.03	22.98	24.0	0.0
20	QPSK	1	1	23.14	23.16	23.15	24.0	0.0
20	QPSK	1	33	22.92	22.95	22.87	24.0	0.0
20	QPSK	1	104	23.14	23.16	23.13	24.0	0.0
20	QPSK	50	0	22.99	23.03	22.99	24.0	0.0
20	QPSK	50	20	22.88	22.98	22.88	24.0	0.0
20	QPSK	50	56	22.85	22.96	22.81	24.0	0.0
20	QPSK	100	0	22.96	23.05	22.97	24.0	0.0
20	HQAM	1	1	23.00	23.08	23.01	24.0	0.0
20	HQAM	1	1	22.09	22.12	22.08	22.5	1.5
20	HQAM	1	1	19.14	19.80	19.76	22.5	1.5
Channel								
15	QPSK	1	1	23.01	23.09	23.00	24.0	0.0
Channel								
10	QPSK	1	1	23.00	23.03	22.87	24.0	0.0
Channel								
5	QPSK	1	1	23.10	23.08	22.95	24.0	0.0

n7 ANT1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max. Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
40	PI2-BPSK	0	1	22.50	22.55	22.45	24.0	0.0
40	PI2-BPSK	1	108	22.51	22.52	22.57	24.0	0.0
40	PI2-BPSK	1	214	22.48	22.54	22.45	24.0	0.0
40	PI2-BPSK	168	0	22.30	22.44	22.31	24.0	0.0
40	PI2-BPSK	168	56	22.40	22.52	22.41	24.0	0.0
40	PI2-BPSK	168	108	22.50	22.48	22.55	24.0	0.0
40	PI2-BPSK	216	0	22.52	22.61	22.48	24.0	0.0
40	QPSK	1	1	22.30	22.36	22.35	24.0	0.0
40	QPSK	1	108	22.45	22.58	22.41	24.0	0.0
40	QPSK	1	214	22.44	22.52	22.45	24.0	0.0
40	QPSK	168	0	22.19	22.33	22.21	24.0	0.0
40	QPSK	168	56	22.31	22.46	22.31	24.0	0.0
40	QPSK	168	108	22.50	22.48	22.55	24.0	0.0
40	QPSK	216	0	22.28	22.39	22.21	24.0	0.0
40	HQAM	1	1	22.38	22.52	22.47	24.0	0.0
40	HQAM	1	1	20.88	20.59	20.62	22.5	1.5
40	HQAM	1	1	18.18	18.80	18.83	22.5	1.5
Channel								
30	PI2-BPSK	0	1	22.50	22.50	22.50	24.0	0.0
30	PI2-BPSK	1	1	22.50	22.52	22.54	24.0	0.0
Channel								
20	PI2-BPSK	1	1	22.33	22.39	22.40	24.0	0.0
Channel								
15	QPSK	1	1	22.28	22.33	22.30	24.0	0.0
Channel								
10	QPSK	1	1	22.24	22.37	22.43	24.0	0.0
Channel								
5	QPSK	1	1	22.30	22.42	22.43	24.0	0.0
Channel								
3	QPSK	1	1	22.25	22.41	22.53	24.0	0.0

n66 ANT1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Max. Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
40	PI2-BPSK	1	1	22.45	22.54	22.50	24.0	0.0
40	PI2-BPSK	1	108	22.34	22.39	22.35	24.0	0.0
40	PI2-BPSK	1	214	22.24	22.38	22.24	24.0	0.0
40	PI2-BPSK	168	0	22.31	22.45	22.30	24.0	0.0
40	PI2-BPSK	168	56	22.31	22.37	22.28	24.0	0.0
40	PI2-BPSK	168	108	22.28	22.34	22.22	24.0	0.0
40	PI2-BPSK	216	0	22.20	22.40	22.27	24.0	0.0
40	QPSK	1	1	22.47	22.51	22.54	24.0	0.0
40	QPSK	1	108	22.20	22.30	22.28	24.0	0.0
40	QPSK	1	214	22.31	22.32	22.25	24.0	0.0
40	QPSK	168	0	22.22	22.38	22.33	24.0	0.0
40	QPSK	168	56	22.44	22.46	22.37	24.0	0.0
40	QPSK	168	108	22.34	22.39	22.31	24.0	0.0
40	QPSK	216	0	22.33	22.42	22.29	24.0	0.0
40	HQAM	1	1	22.37	22.51	22.38	24.0	0.0
40	HQAM	1	1	21.10	21.21	21.12	22.5	1.5
40	HQAM	1	1	18.90	19.13	19.09	22.5	1.5
Channel								
30	PI2-BPSK	1	1	22.34	22.47	22.50	24.0	0.0
Channel								
20	QPSK	1	1	22.39	22.51	22.21	24.0	0.0
Channel								
15	QPSK	1	1	22.38	22.53	22.21	24.0	0.0
Channel								
10	QPSK	1	1	22.38	22.50	22.21	24.0	0.0
Channel								
5	QPSK	1	1	22.38	22.50	22.29	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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	22.62	22.68	22.58	24.0	0.0
100	PI/2 BPSK	1	137	22.63	22.68	22.59		
100	PI/2 BPSK	1	271	22.61	22.70	22.63		
100	PI/2 BPSK	135	0	22.16	22.23	22.19	23.5	0.5
100	PI/2 BPSK	135	69	22.61	22.68	22.59	24.0	0.0
100	PI/2 BPSK	135	138	22.14	22.26	22.22	23.5	0.5
100	PI/2 BPSK	270	0	22.12	22.26	22.17		
100	QPSK	1	1	22.29	22.73	22.66		
100	QPSK	1	137	22.65	22.70	22.65	24.0	0.0
100	QPSK	1	271	22.57	22.66	22.54		
100	QPSK	135	0	21.65	21.73	21.67	23.0	1.0
100	QPSK	135	69	22.63	22.71	22.57	24.0	0.0
100	QPSK	135	138	21.63	21.74	21.61	23.0	1.0
100	QPSK	270	0	21.67	21.73	21.67		
100	16QAM	1	1	21.79	21.87	21.80	23.0	1.0
100	64QAM	1	1	20.28	20.36	20.22	21.5	2.5
100	256QAM	1	1	18.04	18.14	17.99	19.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.25	22.61	22.59	24.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2644.98		
80	QPSK	1	1	22.16	22.68	22.57	24.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.24	22.61	22.51	24.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2529	2592.99	2659.98		
60	QPSK	1	1	22.14	22.63	22.54	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.18	22.58	22.52	24.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.25	22.65	22.54	24.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.14	22.64	22.58	24.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.17	22.61	22.52	24.0	0.0

n41 HPUE 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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	25.63	25.80	25.65	27.0	0.0
100	PI/2 BPSK	1	137	25.63	25.76	25.62		
100	PI/2 BPSK	1	271	25.69	25.74	25.64		
100	PI/2 BPSK	135	0	25.69	25.76	25.63	27.0	0.0
100	PI/2 BPSK	135	69	25.69	25.77	25.68	27.0	0.0
100	PI/2 BPSK	135	138	25.58	25.69	25.65	27.0	0.0
100	PI/2 BPSK	270	0	25.71	25.76	25.69		
100	QPSK	1	1	25.44	25.92	25.70		
100	QPSK	1	137	25.67	25.80	25.71	27.0	0.0
100	QPSK	1	271	25.68	25.73	25.59		
100	QPSK	135	0	25.26	25.33	25.23	26.5	0.5
100	QPSK	135	69	25.67	25.78	25.64	27.0	0.0
100	QPSK	135	138	25.14	25.24	25.17	26.5	0.5
100	QPSK	270	0	25.22	25.32	25.23		
100	16QAM	1	1	23.47	23.56	23.48	26.5	0.5
100	64QAM	1	1	23.91	24.04	23.94	25.0	2.0
100	256QAM	1	1	21.65	21.71	21.58	23.0	4.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.37	25.76	25.63	27.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2644.98		
80	QPSK	1	1	25.34	25.69	25.61	27.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.35	25.71	25.60	27.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2529	2592.99	2659.98		
60	QPSK	1	1	25.37	25.70	25.63	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.29	25.66	25.66	27.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.25	25.74	25.65	27.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.34	25.76	25.65	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.40	25.67	25.56	27.0	0.0



Par270 n77 ANT2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 2 (Freq.)	Power High Ch. 3 (Freq.)	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PI2-BPSK	1	1	23.55	23.55	23.54			
100	PI2-BPSK	1	137	23.51	23.58	23.50	24.0	0.0	
100	PI2-BPSK	1	271	23.45	23.52	23.52			
100	PI2-BPSK	135	0	23.07	23.19	23.09	23.5	0.5	
100	PI2-BPSK	135	138	23.08	23.14	23.06	24.0	0.5	
100	PI2-BPSK	135	138	23.08	23.14	23.06	23.5	0.5	
100	PI2-BPSK	270	0	23.09	23.15	23.07			
100	QPSK	1	1	23.55	23.55	23.55			
100	QPSK	1	137	23.53	23.68	23.59	24.0	0.0	
100	QPSK	1	271	23.48	23.58	23.54			
100	QPSK	135	0	22.58	22.84	22.58	23.0	1.0	
100	QPSK	135	138	22.58	22.64	22.57	24.0	1.0	
100	QPSK	135	138	22.54	22.62	22.55	23.0	1.0	
100	QPSK	270	0	22.57	22.65	22.58			
100	MSKAM	1	1	22.75	22.74	22.69	23.0	1.0	
100	MSKAM	1	1	21.59	21.52	21.14	21.5	2.5	
100	MSKAM	1	1	18.26	18.14	18.10	18.5	4.5	
Channel									
60	QPSK	1	1	23.55	23.55	23.54	24.0	0.0	
60	QPSK	1	137	23.53	23.68	23.59	24.0	0.0	
60	QPSK	1	271	23.48	23.58	23.54			
60	QPSK	135	0	22.58	22.84	22.58	23.0	1.0	
60	QPSK	135	138	22.58	22.64	22.57	24.0	1.0	
60	QPSK	135	138	22.54	22.62	22.55	23.0	1.0	
60	QPSK	270	0	22.57	22.65	22.58			
60	MSKAM	1	1	22.75	22.74	22.69	23.0	1.0	
60	MSKAM	1	1	21.59	21.52	21.14	21.5	2.5	
60	MSKAM	1	1	18.26	18.14	18.10	18.5	4.5	
Channel									
80	QPSK	1	1	23.55	23.55	23.54	24.0	0.0	
80	QPSK	1	137	23.53	23.68	23.59	24.0	0.0	
80	QPSK	1	271	23.48	23.58	23.54			
80	QPSK	135	0	22.58	22.84	22.58	23.0	1.0	
80	QPSK	135	138	22.58	22.64	22.57	24.0	1.0	
80	QPSK	135	138	22.54	22.62	22.55	23.0	1.0	
80	QPSK	270	0	22.57	22.65	22.58			
80	MSKAM	1	1	22.75	22.74	22.69	23.0	1.0	
80	MSKAM	1	1	21.59	21.52	21.14	21.5	2.5	
80	MSKAM	1	1	18.26	18.14	18.10	18.5	4.5	
Channel									
90	QPSK	1	1	23.55	23.55	23.54	24.0	0.0	
90	QPSK	1	137	23.53	23.68	23.59	24.0	0.0	
90	QPSK	1	271	23.48	23.58	23.54			
90	QPSK	135	0	22.58	22.84	22.58	23.0	1.0	
90	QPSK	135	138	22.58	22.64	22.57	24.0	1.0	
90	QPSK	135	138	22.54	22.62	22.55	23.0	1.0	
90	QPSK	270	0	22.57	22.65	22.58			
90	MSKAM	1	1	22.75	22.74	22.69	23.0	1.0	
90	MSKAM	1	1	21.59	21.52	21.14	21.5	2.5	
90	MSKAM	1	1	18.26	18.14	18.10	18.5	4.5	
Channel									
100	QPSK	1	1	23.55	23.55	23.54	24.0	0.0	
100	QPSK	1	137	23.53	23.68	23.59	24.0	0.0	
100	QPSK	1	271	23.48	23.58	23.54			
100	QPSK	135	0	22.58	22.84	22.58	23.0	1.0	
100	QPSK	135	138	22.58	22.64	22.57	24.0	1.0	
100	QPSK	135	138	22.54	22.62	22.55	23.0	1.0	
100	QPSK	270	0	22.57	22.65	22.58			
100	MSKAM	1	1	22.75	22.74	22.69	23.0	1.0	
100	MSKAM	1	1	21.59	21.52	21.14	21.5	2.5	
100	MSKAM	1	1	18.26	18.14	18.10	18.5	4.5	

Par270 n77 HPUE ANT2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 2 (Freq.)	Power High Ch. 3 (Freq.)	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PI2-BPSK	1	1	26.36	26.42	26.38			
100	PI2-BPSK	1	137	26.42	26.52	26.44	27.0	0.0	
100	PI2-BPSK	1	271	26.41	26.48	26.37			
100	PI2-BPSK	135	0	25.27	25.44	25.28	27.0	0.0	
100	PI2-BPSK	135	138	25.28	25.36	25.29	27.0	0.0	
100	PI2-BPSK	270	0	25.27	25.41	25.27			
100	QPSK	1	1	26.36	26.36	26.31			
100	QPSK	1	137	26.38	26.44	26.34	27.0	0.0	
100	QPSK	1	271	26.42	26.51	26.40			
100	QPSK	135	0	25.27	25.38	25.20	26.0	1.0	
100	QPSK	135	138	25.27	25.36	25.28	27.0	0.0	
100	QPSK	135	138	25.23	25.35	25.26	26.0	1.0	
100	QPSK	270	0	25.25	25.38	25.25			
100	MSKAM	1	1	26.05	26.21	26.13	26.5	0.5	
100	MSKAM	1	1	24.59	24.72	24.57	25.0	2.0	
100	MSKAM	1	1	22.26	22.41	22.45	22.0	4.0	
Channel									
60	QPSK	1	1	26.36	26.36	26.31	27.0	0.0	
60	QPSK	1	137	26.38	26.44	26.34	27.0	0.0	
60	QPSK	1	271	26.42	26.51	26.40			
60	QPSK	135	0	25.27	25.38	25.20	26.0	1.0	
60	QPSK	135	138	25.27	25.36	25.28	27.0	0.0	
60	QPSK	135	138	25.23	25.35	25.26	26.0	1.0	
60	QPSK	270	0	25.25	25.38	25.25			
60	MSKAM	1	1	26.05	26.21	26.13	26.5	0.5	
60	MSKAM	1	1	24.59	24.72	24.57	25.0	2.0	
60	MSKAM	1	1	22.26	22.41	22.45	22.0	4.0	
Channel									
80	QPSK	1	1	26.36	26.36	26.31	27.0	0.0	
80	QPSK	1	137	26.38	26.44	26.34	27.0	0.0	
80	QPSK	1	271	26.42	26.51	26.40			
80	QPSK	135	0	25.27	25.38	25.20	26.0	1.0	
80	QPSK	135	138	25.27	25.36	25.28	27.0	0.0	
80	QPSK	135	138	25.23	25.35	25.26	26.0	1.0	
80	QPSK	270	0	25.25	25.38	25.25			
80	MSKAM	1	1	26.05	26.21	26.13	26.5	0.5	
80	MSKAM	1	1	24.59	24.72	24.57	25.0	2.0	
80	MSKAM	1	1	22.26	22.41	22.45	22.0	4.0	
Channel									
90	QPSK	1	1	26.36	26.36	26.31	27.0	0.0	
90	QPSK	1	137	26.38	26.44	26.34	27.0	0.0	
90	QPSK	1	271	26.42	26.51	26.40			
90	QPSK	135	0	25.27	25.38	25.20	26.0	1.0	
90	QPSK	135	138	25.27	25.36	25.28	27.0	0.0	
90	QPSK	135	138	25.23	25.35	25.26	26.0	1.0	
90	QPSK	270	0	25.25	25.38	25.25			
90	MSKAM	1	1	26.05	26.21	26.13	26.5	0.5	
90	MSKAM	1	1	24.59	24.72	24.57	25.0	2.0	
90	MSKAM	1	1	22.26	22.41	22.45	22.0	4.0	
Channel									
100	QPSK	1	1	26.36	26.36	26.31	27.0	0.0	
100	QPSK	1	137	26.38	26.44	26.34	27.0	0.0	
100	QPSK	1	271	26.42	26.51	26.40			
100	QPSK	135	0	25.27	25.38	25.20	26.0	1.0	
100	QPSK	135	138	25.27	25.36	25.28	27.0	0.0	
100	QPSK	135	138	25.23	25.35	25.26	26.0	1.0	
100	QPSK	270	0	25.25	25.38	25.25			
100	MSKAM	1	1	26.05	26.21	26.13	26.5	0.5	
100	MSKAM	1	1	24.59	24.72	24.57	25.0	2.0	
100	MSKAM	1	1	22.26	22.41	22.45	22.0	4.0	

Part270Q n77 ANT2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Middle Ch. 2 (Freq.)	Power High Ch. 3 (Freq.)	Turn-up time (dBm)	MPR (dB)	
Channel									
100	PI2-BPSK	1	1	23.81					
100	PI2-BPSK	1	137	23.55			24.0	0.0	
100	PI2-BPSK	1	271	23.81					
100	PI2-BPSK	135	0	23.19			23.5	0.5	
100	PI2-BPSK	135	138	23.19			23.5	0.5	
100	PI2-BPSK	135	138	23.14			23.5	0.5	
100	PI2-BPSK	270	0	23.19					
100	QPSK	1	1	23.81					
100	QPSK	1	137	23.47			24.0	0.0	
100	QPSK	1	271	23.56					



Part270 n78 ANT2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)		
Channel										
100	PI2-BPSK	1	1	23.57	23.57	23.57				
100	PI2-BPSK	1	137	23.47	23.47	23.47	24.0	0.0		
100	PI2-BPSK	1	271	23.34	23.34	23.34				
100	PI2-BPSK	135	0	23.08	23.08	23.08				
100	PI2-BPSK	135	80	23.43	23.43	23.43				
100	PI2-BPSK	135	138	23.31	23.31	23.31	23.0	0.0		
100	PI2-BPSK	270	0	22.98	22.98	22.98				
100	QPSK	1	1	23.05	23.05	23.05				
100	QPSK	1	137	23.45	23.45	23.45	24.0	0.0		
100	QPSK	1	271	23.32	23.32	23.32				
100	QPSK	135	0	22.98	22.98	22.98	23.0	1.0		
100	QPSK	135	80	23.33	23.33	23.33				
100	QPSK	135	138	23.21	23.21	23.21	23.0	1.0		
100	QPSK	270	0	22.97	22.97	22.97				
100	MSKAM	1	1	22.84	22.84	22.84	23.0	1.0		
100	MSKAM	1	1	21.28	21.28	21.28				
100	MSKAM	1	1	19.13	19.13	19.13				
Channel										
80	QPSK	1	1	23.05	23.05	23.05				
80	QPSK	1	137	23.43	23.43	23.43	24.0	0.0		
80	QPSK	1	271	23.30	23.30	23.30				
80	QPSK	135	0	22.98	22.98	22.98				
80	QPSK	135	80	23.33	23.33	23.33				
80	QPSK	135	138	23.21	23.21	23.21	23.0	0.0		
80	QPSK	270	0	22.97	22.97	22.97				
80	MSKAM	1	1	22.84	22.84	22.84	23.0	1.0		
80	MSKAM	1	1	21.28	21.28	21.28				
80	MSKAM	1	1	19.13	19.13	19.13				
Channel										
70	QPSK	1	1	22.81	22.81	22.81	24.0	0.0		
70	QPSK	1	137	23.19	23.19	23.19				
70	QPSK	1	271	23.04	23.04	23.04				
70	QPSK	135	0	22.97	22.97	22.97	24.0	0.0		
70	QPSK	135	80	23.30	23.30	23.30				
70	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
70	QPSK	270	0	22.96	22.96	22.96				
70	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
70	MSKAM	1	1	21.27	21.27	21.27				
70	MSKAM	1	1	19.12	19.12	19.12				
Channel										
60	QPSK	1	1	23.51	23.51	23.51				
60	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
60	QPSK	1	271	23.24	23.24	23.24				
60	QPSK	135	0	22.97	22.97	22.97				
60	QPSK	135	80	23.30	23.30	23.30				
60	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
60	QPSK	270	0	22.96	22.96	22.96				
60	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
60	MSKAM	1	1	21.27	21.27	21.27				
60	MSKAM	1	1	19.12	19.12	19.12				
Channel										
50	QPSK	1	1	23.51	23.51	23.51				
50	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
50	QPSK	1	271	23.24	23.24	23.24				
50	QPSK	135	0	22.97	22.97	22.97				
50	QPSK	135	80	23.30	23.30	23.30				
50	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
50	QPSK	270	0	22.96	22.96	22.96				
50	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
50	MSKAM	1	1	21.27	21.27	21.27				
50	MSKAM	1	1	19.12	19.12	19.12				
Channel										
40	QPSK	1	1	23.51	23.51	23.51				
40	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
40	QPSK	1	271	23.24	23.24	23.24				
40	QPSK	135	0	22.97	22.97	22.97				
40	QPSK	135	80	23.30	23.30	23.30				
40	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
40	QPSK	270	0	22.96	22.96	22.96				
40	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
40	MSKAM	1	1	21.27	21.27	21.27				
40	MSKAM	1	1	19.12	19.12	19.12				
Channel										
30	QPSK	1	1	23.51	23.51	23.51				
30	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
30	QPSK	1	271	23.24	23.24	23.24				
30	QPSK	135	0	22.97	22.97	22.97				
30	QPSK	135	80	23.30	23.30	23.30				
30	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
30	QPSK	270	0	22.96	22.96	22.96				
30	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
30	MSKAM	1	1	21.27	21.27	21.27				
30	MSKAM	1	1	19.12	19.12	19.12				
Channel										
20	QPSK	1	1	23.51	23.51	23.51				
20	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
20	QPSK	1	271	23.24	23.24	23.24				
20	QPSK	135	0	22.97	22.97	22.97				
20	QPSK	135	80	23.30	23.30	23.30				
20	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
20	QPSK	270	0	22.96	22.96	22.96				
20	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
20	MSKAM	1	1	21.27	21.27	21.27				
20	MSKAM	1	1	19.12	19.12	19.12				
Channel										
15	QPSK	1	1	23.50	23.50	23.50				
15	QPSK	1	137	23.38	23.38	23.38	24.0	0.0		
15	QPSK	1	271	23.23	23.23	23.23				
15	QPSK	135	0	22.96	22.96	22.96				
15	QPSK	135	80	23.29	23.29	23.29				
15	QPSK	135	138	23.17	23.17	23.17	23.0	0.0		
15	QPSK	270	0	22.95	22.95	22.95				
15	MSKAM	1	1	22.82	22.82	22.82	23.0	1.0		
15	MSKAM	1	1	21.26	21.26	21.26				
15	MSKAM	1	1	19.11	19.11	19.11				
Channel										
10	QPSK	1	1	23.51	23.51	23.51				
10	QPSK	1	137	23.39	23.39	23.39	24.0	0.0		
10	QPSK	1	271	23.24	23.24	23.24				
10	QPSK	135	0	22.97	22.97	22.97				
10	QPSK	135	80	23.30	23.30	23.30				
10	QPSK	135	138	23.18	23.18	23.18	23.0	0.0		
10	QPSK	270	0	22.96	22.96	22.96				
10	MSKAM	1	1	22.83	22.83	22.83	23.0	1.0		
10	MSKAM	1	1	21.27	21.27	21.27				
10	MSKAM	1	1	19.12	19.12	19.12				

Part270 n78 HPUE ANT2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (W)	Power Max Ch. 1 (W)	Power High Ch. 1 (W)	Turn-up time (dBm)	MPR (dB)		
Channel										
100	PI2-BPSK	1	1	26.43	26.43	26.43				
100	PI2-BPSK	1	137	26.47	26.47	26.47	27.0	0.0		
100	PI2-BPSK	1	271	26.38	26.38	26.38				
100	PI2-BPSK	135	0	26.48	26.48	26.48				
100	PI2-BPSK	135	80	26.43	26.43	26.43				
100	PI2-BPSK	135	138	26.34	26.34	26.34	27.0	0.0		
100	PI2-BPSK	270	0	26.40	26.40	26.40				
100	QPSK	1	1	26.05	26.05	26.05				
100	QPSK	1	137	26.43	26.43	26.43	27.0	0.0		
100	QPSK	1	271	26.30	26.30	26.30				
100	QPSK	135	0	26.18	26.18	26.18	26.5	0.0		
100	QPSK	135	80	26.37	26.37	26.37				
100	QPSK	135	138	26.01	26.01	26.01	26.5	0.0		
100	QPSK	270	0	26.04	26.04	26.04				
100	MSKAM	1	1	25.98	25.98	25.98	26.5	0.5		
100	MSKAM	1	1							



Part27Q n77 ANT3									
BW (MHz)	Multiplex	RF Size	RF Offset	Power Level Ch. 1 (dBm)	Power Level Ch. 2 (dBm)	Power Level Ch. 3 (dBm)	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	P12-BPSK	1	1	22.48					
100	P12-BPSK	1	1	22.52			24.0	0.0	
100	P12-BPSK	1	211	22.48					
100	P12-BPSK	158	0	22.52			23.5	0.5	
100	P12-BPSK	158	0	22.55			24.0	0.0	
100	P12-BPSK	210	0	22.59			23.5	0.5	
100	QPSK	1	1	22.55			24.0	0.0	
100	QPSK	1	127	22.55			24.0	0.0	
100	QPSK	1	211	22.57					
100	QPSK	158	0	22.55			24.0	0.0	
100	QPSK	158	0	22.58			24.0	0.0	
100	QPSK	210	0	22.59			23.5	0.5	
100	QPSK	210	0	22.62			24.0	0.0	
100	QPSK	158	0	22.72			23.0	1.0	
100	QPSK	1	1	22.77			23.5	0.5	
100	QPSK	1	1	22.82			23.5	0.5	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	23.20	23.15	23.10	24.0	0.0	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	23.12	23.18	23.12	24.0	0.0	
Challenge									
Frequency (MHz)									
70	QPSK	1	1	23.15	23.15	23.15	24.0	0.0	
Challenge									
Frequency (MHz)									
60	QPSK	1	1	23.11	23.15	23.10	24.0	0.0	
Challenge									
Frequency (MHz)									
50	QPSK	1	1	23.12	23.10	23.10	24.0	0.0	
Challenge									
Frequency (MHz)									
40	QPSK	1	1	23.10	23.15	23.10	24.0	0.0	
Challenge									
Frequency (MHz)									
30	QPSK	1	1	23.17	23.14	23.10	24.0	0.0	
Challenge									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.00	23.13	24.0	0.0	
Challenge									
Frequency (MHz)									
10	QPSK	1	1	23.13	23.00	23.22	24.0	0.0	
Challenge									
Frequency (MHz)									
0	QPSK	1	1	23.00	23.00	23.11	24.0	0.0	

Part27Q n77 HPUE ANT3									
BW (MHz)	Multiplex	RF Size	RF Offset	Power Level Ch. 1 (dBm)	Power Level Ch. 2 (dBm)	Power Level Ch. 3 (dBm)	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	P12-BPSK	1	1	22.50					
100	P12-BPSK	1	127	22.50			27.0	0.0	
100	P12-BPSK	1	211	22.51					
100	P12-BPSK	158	0	22.54			27.0	0.0	
100	P12-BPSK	158	0	22.55			27.0	0.0	
100	P12-BPSK	210	0	22.55			27.0	0.0	
100	QPSK	1	1	22.55			27.0	0.0	
100	QPSK	1	127	22.54			27.0	0.0	
100	QPSK	1	211	22.58					
100	QPSK	158	0	22.55			27.0	0.0	
100	QPSK	158	0	22.57			27.0	0.0	
100	QPSK	210	0	22.57			27.0	0.0	
100	QPSK	210	0	22.62			27.0	0.0	
100	QPSK	158	0	22.72			27.0	0.0	
100	QPSK	1	1	22.77			26.5	0.5	
100	QPSK	1	1	22.82			26.5	0.5	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	23.00	22.95	22.90	27.0	0.0	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	22.91	22.95	22.91	27.0	0.0	
Challenge									
Frequency (MHz)									
70	QPSK	1	1	22.93	22.93	22.93	27.0	0.0	
Challenge									
Frequency (MHz)									
60	QPSK	1	1	22.91	22.95	22.97	27.0	0.0	
Challenge									
Frequency (MHz)									
50	QPSK	1	1	22.92	22.90	22.90	27.0	0.0	
Challenge									
Frequency (MHz)									
40	QPSK	1	1	22.91	22.93	22.90	27.0	0.0	
Challenge									
Frequency (MHz)									
30	QPSK	1	1	22.92	22.92	22.90	27.0	0.0	
Challenge									
Frequency (MHz)									
20	QPSK	1	1	22.83	22.82	22.90	27.0	0.0	
Challenge									
Frequency (MHz)									
10	QPSK	1	1	22.93	22.94	22.94	27.0	0.0	
Challenge									
Frequency (MHz)									
0	QPSK	1	1	22.80	22.80	22.92	27.0	0.0	

Part27Q n78 ANT3									
BW (MHz)	Multiplex	RF Size	RF Offset	Power Level Ch. 1 (dBm)	Power Level Ch. 2 (dBm)	Power Level Ch. 3 (dBm)	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	P12-BPSK	1	1	22.81					
100	P12-BPSK	1	127	22.82			24.0	0.0	
100	P12-BPSK	1	211	22.83					
100	P12-BPSK	158	0	22.85			23.5	0.5	
100	P12-BPSK	158	0	22.88			24.0	0.0	
100	P12-BPSK	210	0	22.87			23.5	0.5	
100	QPSK	1	1	22.85			24.0	0.0	
100	QPSK	1	127	22.85			24.0	0.0	
100	QPSK	1	211	22.88					
100	QPSK	158	0	22.85			24.0	0.0	
100	QPSK	158	0	22.88			24.0	0.0	
100	QPSK	210	0	22.88			23.5	0.5	
100	QPSK	210	0	22.92			24.0	0.0	
100	QPSK	158	0	23.02			24.0	0.0	
100	QPSK	1	1	23.07			23.0	1.0	
100	QPSK	1	1	23.12			23.0	1.0	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	23.00	22.97	22.94	24.0	0.0	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	22.92	22.92	22.92	24.0	0.0	
Challenge									
Frequency (MHz)									
70	QPSK	1	1	22.93	22.93	22.93	24.0	0.0	
Challenge									
Frequency (MHz)									
60	QPSK	1	1	22.91	22.92	22.92	24.0	0.0	
Challenge									
Frequency (MHz)									
50	QPSK	1	1	22.91	22.90	22.90	24.0	0.0	
Challenge									
Frequency (MHz)									
40	QPSK	1	1	22.90	22.90	22.90	24.0	0.0	
Challenge									
Frequency (MHz)									
30	QPSK	1	1	22.91	22.89	22.91	24.0	0.0	
Challenge									
Frequency (MHz)									
20	QPSK	1	1	22.83	22.83	22.92	24.0	0.0	
Challenge									
Frequency (MHz)									
10	QPSK	1	1	22.92	22.91	22.91	24.0	0.0	
Challenge									
Frequency (MHz)									
0	QPSK	1	1	22.80	22.80	22.90	24.0	0.0	

Part27Q n78 HPUE ANT3									
BW (MHz)	Multiplex	RF Size	RF Offset	Power Level Ch. 1 (dBm)	Power Level Ch. 2 (dBm)	Power Level Ch. 3 (dBm)	Turn-up time (min)	MFR (dB)	
Challenge									
Frequency (MHz)									
100	P12-BPSK	1	1	22.78					
100	P12-BPSK	1	127	22.78			27.0	0.0	
100	P12-BPSK	1	211	22.82					
100	P12-BPSK	158	0	22.78			27.0	0.0	
100	P12-BPSK	158	0	22.81			27.0	0.0	
100	P12-BPSK	210	0	22.81			27.0	0.0	
100	QPSK	1	1	22.78			27.0	0.0	
100	QPSK	1	127	22.78			27.0	0.0	
100	QPSK	1	211	22.82					
100	QPSK	158	0	22.78			27.0	0.0	
100	QPSK	158	0	22.81			27.0	0.0	
100	QPSK	210	0	22.81			27.0	0.0	
100	QPSK	210	0	22.86			27.0	0.0	
100	QPSK	158	0	22.96			27.0	0.0	
100	QPSK	1	1	23.01			26.5	0.5	
100	QPSK	1	1	23.06			26.5	0.5	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	22.90	22.87	22.84	27.0	0.0	
Challenge									
Frequency (MHz)									
90	QPSK	1	1	22.82	22.82	22.82	27.0	0.0	
Challenge									
Frequency (MHz)									
70	QPSK	1	1	22.83	22.83	22.83	27.0	0.0	
Challenge									
Frequency (MHz)									
60	QPSK	1	1	22.81	22.82	22.82	27.0	0.0	
Challenge									
Frequency (MHz)									
50	QPSK	1	1	22.81	22.80	22.80	27.0	0.0	
Challenge									
Frequency (MHz)									
40	QPSK	1	1	22.80	22.80	22.80	27.0	0.0	
Challenge									
Frequency (MHz)									
30	QPSK	1	1	22.81	22.79	22.81	27.0	0.0	
Challenge									
Frequency (MHz)									
20	QPSK	1	1	22.73	22.73	22.82	27.0	0.0	
Challenge									
Frequency (MHz)									
10	QPSK	1	1	22.82	22.82	22.82	27.0	0.0	
Challenge									
Frequency (MHz)									
0	QPSK	1	1	22.70	22.70	22.80	27.0	0.0	



Part27Q 78 ANT3									
REV (REV)	Material	RS Size	RS Offset	Power Type (Ch, T/Freq)	Power Rate (Ch, T/Freq)	Power Type (Ch, T/Freq)	Power Rate (Ch, T/Freq)	Turn-up Rate (dB)	MPT (dB)
Change									
Frequency (MHz)									
100	PH2 BPSK	1	1		23.00	23.00	23.00	24.0	0.0
100	PH2 BPSK	1	137		23.00	23.00	23.00	24.0	0.0
100	PH2 BPSK	1	271		23.00	23.00	23.00	23.5	0.0
100	PH2 BPSK	100	0		23.00	23.00	23.00	24.0	0.0
100	PH2 BPSK	100	80		23.00	23.00	23.00	24.0	0.0
100	PH2 BPSK	100	160		23.00	23.00	23.00	23.5	0.0
100	QPSK	1	1		23.00	23.00	23.00	24.0	0.0
100	QPSK	1	137		23.00	23.00	23.00	24.0	0.0
100	QPSK	100	0		23.00	23.00	23.00	24.0	0.0
100	QPSK	100	80		23.00	23.00	23.00	24.0	0.0
100	QPSK	100	160		23.00	23.00	23.00	24.0	0.0
100	QPSK	270	0		23.00	23.00	23.00	24.0	0.0
100	QPSK	1	1		23.00	23.00	23.00	23.0	1.0
100	QPSK	1	1		23.00	23.00	23.00	21.5	2.0
100	QPSK	1	1		23.00	23.00	23.00	19.0	4.0
Change									
Frequency (MHz)									
90	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
80	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
75	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
60	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
50	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
30	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
20	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
15	QPSK	1	1		22.00	22.00	22.00	24.0	0.0
Change									
Frequency (MHz)									
0	QPSK	1	1		22.00	22.00	22.00	24.0	0.0

Part27Q 78 HPUE ANT3									
REV (REV)	Material	RS Size	RS Offset	Power Type (Ch, T/Freq)	Power Rate (Ch, T/Freq)	Power Type (Ch, T/Freq)	Power Rate (Ch, T/Freq)	Turn-up Rate (dB)	MPT (dB)
Change									
Frequency (MHz)									
100	PH2 BPSK	1	1		23.00	23.00	23.00	27.0	0.0
100	PH2 BPSK	1	137		23.00	23.00	23.00	27.0	0.0
100	PH2 BPSK	1	271		23.00	23.00	23.00	27.0	0.0
100	PH2 BPSK	100	0		23.00	23.00	23.00	27.0	0.0
100	PH2 BPSK	100	80		23.00	23.00	23.00	27.0	0.0
100	PH2 BPSK	100	160		23.00	23.00	23.00	27.0	0.0
100	QPSK	1	1		23.00	23.00	23.00	27.0	0.0
100	QPSK	1	137		23.00	23.00	23.00	27.0	0.0
100	QPSK	100	0		23.00	23.00	23.00	27.0	0.0
100	QPSK	100	80		23.00	23.00	23.00	27.0	0.0
100	QPSK	100	160		23.00	23.00	23.00	27.0	0.0
100	QPSK	270	0		23.00	23.00	23.00	27.0	0.0
100	QPSK	1	1		23.00	23.00	23.00	26.5	0.5
100	QPSK	1	1		23.00	23.00	23.00	25.0	2.0
100	QPSK	1	1		23.00	23.00	23.00	22.0	4.0
Change									
Frequency (MHz)									
90	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
80	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
70	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
60	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
50	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
40	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
30	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
20	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
15	QPSK	1	1		22.00	22.00	22.00	27.0	0.0
Change									
Frequency (MHz)									
0	QPSK	1	1		22.00	22.00	22.00	27.0	0.0



n41 ANT4								
BW [MHz]	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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	21.11	21.25	21.13		
100	PI/2 BPSK	1	137	21.02	21.05	21.01	23.0	0.0
100	PI/2 BPSK	1	271	21.02	21.04	21.01		
100	PI/2 BPSK	135	0	21.05	21.09	20.96	22.5	0.5
100	PI/2 BPSK	135	69	21.02	21.05	21.03	23.0	0.0
100	PI/2 BPSK	135	138	20.71	20.84	20.71	22.5	0.5
100	PI/2 BPSK	270	0	20.88	20.95	20.99		
100	QPSK	1	1	21.14	21.29	21.18		
100	QPSK	1	137	21.02	21.09	21.08	23.0	0.0
100	QPSK	1	271	21.02	21.05	21.01		
100	QPSK	135	0	20.90	21.00	20.96	22.0	1.0
100	QPSK	135	69	21.06	21.09	21.02	23.0	0.0
100	QPSK	135	138	20.72	20.81	20.64	22.0	1.0
100	QPSK	270	0	20.92	20.95	20.93		
100	16QAM	1	1	21.00	21.05	20.96	22.0	1.0
100	64QAM	1	1	19.98	20.05	19.97	20.5	2.5
100	256QAM	1	1	17.27	17.38	17.20	18.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.03	21.23	21.07	23.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	21.01	21.21	21.04	23.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.08	21.18	21.08	23.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2529	2592.99	2659.98		
60	QPSK	1	1	21.05	21.18	21.13	23.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.07	21.24	21.11	23.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	21.13	21.06	23.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.06	21.23	21.05	23.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.07	21.15	21.04	23.0	0.0

n41 HPUE ANT4								
BW [MHz]	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)				2543.01	2592.99	2644.98		
100	PI/2 BPSK	1	1	24.02	24.09	24.03		
100	PI/2 BPSK	1	137	24.03	24.06	24.03	26.0	0.0
100	PI/2 BPSK	1	271	24.02	24.05	23.96		
100	PI/2 BPSK	135	0	23.85	23.90	23.85	25.5	0.5
100	PI/2 BPSK	135	69	24.05	24.15	24.08	26.0	0.0
100	PI/2 BPSK	135	138	23.97	24.02	23.94	25.5	0.5
100	PI/2 BPSK	270	0	23.98	24.07	24.02		
100	QPSK	1	1	24.12	24.21	24.16		
100	QPSK	1	137	24.03	24.12	24.07	26.0	0.0
100	QPSK	1	271	24.02	24.07	24.03		
100	QPSK	135	0	23.60	23.63	23.60	25.0	1.0
100	QPSK	135	69	23.93	24.02	23.93	26.0	0.0
100	QPSK	135	138	23.56	23.61	23.52	25.0	1.0
100	QPSK	270	0	23.59	23.68	23.62		
100	16QAM	1	1	24.07	24.09	24.06	25.0	1.0
100	64QAM	1	1	22.45	22.51	22.45	23.5	2.5
100	256QAM	1	1	20.18	20.25	20.17	21.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.01	24.09	24.03	26.0	0.0
Channel				507204	518598	528998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	24.04	24.10	24.09	26.0	0.0
Channel				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	24.01	24.15	24.10	26.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2529	2592.99	2659.98		
60	QPSK	1	1	24.04	24.15	24.07	26.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.03	24.15	24.06	26.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.01	24.11	24.11	26.0	0.0
Channel				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.04	24.10	24.07	26.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.04	24.13	24.05	26.0	0.0



Par270 n77 ANT7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Media Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	22.21	22.51	22.82		
100	PI2-BPSK	1	137	22.13	22.44	22.77	24.0	0.0
100	PI2-BPSK	1	271	22.25	22.34	22.92		
100	PI2-BPSK	135	0	21.78	22.15	21.94	23.5	0.5
100	PI2-BPSK	135	138	22.22	22.28	22.48	24.0	0.5
100	PI2-BPSK	135	138	21.84	22.12	21.91	23.5	0.5
100	PI2-BPSK	270	0	21.91	22.20	21.87		
100	QPSK	1	1	22.25	22.55	22.82		
100	QPSK	1	137	22.20	22.58	22.48	24.0	0.0
100	QPSK	1	271	22.28	22.34	22.33		
100	QPSK	135	0	21.10	21.49	21.44	23.0	1.0
100	QPSK	135	138	21.10	21.59	21.42	24.0	1.0
100	QPSK	135	138	21.11	21.59	21.42	23.0	1.0
100	QPSK	270	0	21.25	21.54	21.28		
100	HQAM	1	1	21.26	21.47	21.32	23.0	1.0
100	HQAM	1	1	19.75	20.03	20.07	21.5	2.5
100	HQAM	1	1	17.65	18.00	17.62	19.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.25	22.51	22.37	24.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.20	22.54	22.47	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.21	22.41	22.45	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.24	22.51	22.48	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.21	22.51	22.39	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.27	22.53	22.40	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.24	22.58	22.50	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.21	22.54	22.37	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.33	22.48	22.47	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.27	22.62	22.49	24.0	0.0

Par270 n77 HPUE ANT7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Media Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	25.34	25.49	25.31		
100	PI2-BPSK	1	137	25.38	25.67	25.52	27.0	0.0
100	PI2-BPSK	1	271	25.20	25.14	25.23		
100	PI2-BPSK	135	0	25.40	25.35	25.47	26.5	0.5
100	PI2-BPSK	135	138	25.45	25.31	25.68	27.0	0.0
100	PI2-BPSK	135	138	25.28	25.52	25.43	26.5	0.5
100	PI2-BPSK	270	0	25.38	25.68	25.48		
100	QPSK	1	1	25.35	25.52	25.65		
100	QPSK	1	137	25.45	25.53	25.43	27.0	0.0
100	QPSK	1	271	25.21	25.43	25.20		
100	QPSK	135	0	25.39	25.24	25.50	26.0	1.0
100	QPSK	135	138	25.44	25.48	25.56	27.0	0.0
100	QPSK	135	138	25.24	25.29	25.13	26.0	1.0
100	QPSK	270	0	25.23	25.38	25.31		
100	HQAM	1	1	25.12	25.18	25.13	26.0	1.0
100	HQAM	1	1	23.22	23.83	23.71	24.5	2.5
100	HQAM	1	1	21.08	21.88	21.84	22.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.25	25.63	25.45	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.40	25.36	25.50	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.46	25.69	25.50	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.33	25.58	25.44	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.49	25.87	25.58	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.48	25.59	25.83	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.38	25.60	25.61	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.42	25.56	25.37	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.44	25.68	25.58	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.48	25.70	25.55	27.0	0.0

Part270Q n77 ANT7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Media Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	22.85				
100	PI2-BPSK	1	137	22.78			24.0	0.0
100	PI2-BPSK	1	271	22.77				
100	PI2-BPSK	135	0	22.40			23.5	0.5
100	PI2-BPSK	135	138	22.38			23.5	0.5
100	PI2-BPSK	270	0	22.44				
100	QPSK	1	1	22.85				
100	QPSK	1	137	22.73			24.0	0.0
100	QPSK	1	271	22.72				
100	QPSK	135	0	21.84			23.0	1.0
100	QPSK	135	138	21.83			23.0	1.0
100	QPSK	270	0	21.83			23.0	1.0
100	HQAM	1	1	21.78			23.0	1.0
100	HQAM	1	1	20.42			21.5	2.5
100	HQAM	1	1	18.26			19.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.85	23.08	23.08	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.81	22.81	22.81	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.85	22.75	22.88	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.85	22.85	22.85	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.88	22.83	22.83	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.84	22.75	22.88	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.85	22.74	22.87	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.85	22.83	22.83	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.84	22.84	22.84	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.81	22.79	22.88	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.85	22.71	22.84	Turn-up time (dBm)	MPE (dB)

Part270Q n77 HPUE ANT7

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Freq.)	Power Media Ch. 1 (Freq.)	Power High Ch. 1 (Freq.)	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PI2-BPSK	1	1	25.38				
100	PI2-BPSK	1	137	25.59			27.0	0.0
100	PI2-BPSK	1	271	25.24				
100	PI2-BPSK	135	0	25.40			26.5	0.5
100	PI2-BPSK	135	138	25.38			26.5	0.5
100	PI2-BPSK	270	0	25.37				
100	QPSK	1	1	25.35				
100	QPSK	1	137	25.45			27.0	0.0
100	QPSK	1	271	25.28				
100	QPSK	135	0	25.20			26.0	1.0
100	QPSK	135	138	25.20			26.0	1.0
100	QPSK	270	0	25.24			26.0	1.0
100	HQAM	1	1	25.20			26.0	1.0
100	HQAM	1	1	23.73			24.5	2.5
100	HQAM	1	1	21.67			23.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.37	25.38	25.38	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.37	25.30	25.30	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.30	25.46	25.38	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.43	25.37	25.43	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.38	25.33	25.33	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.36	25.47	25.38	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.34	25.33	25.34	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.35	25.35	25.35	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.34	25.34	25.34	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.33	25.36	25.41	Turn-up time (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.47	25.48	25.53	Turn-up time (dBm)	MPE (dB)