

10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
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	8.38	± 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	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %

10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	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	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %

10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	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	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	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	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	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	AAD	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	AAC	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	AAC	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	AAE	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	AAE	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	AAE	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	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	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	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	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	AAB	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 %

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.

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

	Ant0 Default Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst-Average Power (dBm)				128	189	251	
GSM850					824.2	836.4	848.8	
TX Channel	128	189	251					
Frequency (MHz)	824.2	836.4	848.8					
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots	26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot	25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots	23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

	Ant0 Default Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst-Average Power (dBm)				512	661	810	
GSM1900					1850.2	1880	1909.8	
TX Channel	512	661	810					
Frequency (MHz)	1850.2	1880	1909.8					
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.82	26.35	26.66	27.50	20.82	20.35	20.66	21.50
GPRS 3 Tx slots	25.33	25.35	25.19	26.50	21.07	21.09	20.93	22.24
GPRS 4 Tx slots	23.19	23.24	22.78	24.00	20.19	20.24	19.78	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Band	Ant0 Default Power				Tune-up Limit (dBm)	Ant0 Default Power				Tune-up Limit (dBm)	Ant0 Default Power				Tune-up Limit (dBm)
	WCDMA S		WCDMA T			WCDMA V		WCDMA V							
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233				
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	24.15	24.19	24.16	25.00	24.10	24.21	24.13	25.00	23.74	23.94	23.94	25.00		
3GPP Rel 99	RMC 12.2Kbps	24.16	24.24	24.18	25.00	24.12	24.23	24.14	25.00	23.76	23.99	23.96	25.00		
3GPP Rel 6	HSDPA Subtest-1	23.22	23.19	23.34	24.00	23.40	23.51	23.31	24.00	23.02	23.06	23.03	24.00		
3GPP Rel 6	HSDPA Subtest-2	23.19	23.23	23.34	24.00	23.35	23.43	23.29	24.00	22.62	23.04	23.03	24.00		
3GPP Rel 6	HSDPA Subtest-3	22.68	22.74	22.84	23.50	22.84	22.95	22.82	23.50	22.50	22.51	22.55	23.50		
3GPP Rel 6	HSDPA Subtest-4	22.67	22.71	22.43	23.50	22.86	23.00	22.80	23.50	22.61	22.55	22.51	23.50		
3GPP Rel 8	DC-HSDPA Subtest-1	22.91	22.98	23.06	24.00	23.07	23.17	23.00	24.00	22.78	22.85	22.78	24.00		
3GPP Rel 8	DC-HSDPA Subtest-2	22.90	23.03	23.03	24.00	23.14	23.11	23.05	24.00	23.38	22.76	22.69	24.00		
3GPP Rel 8	DC-HSDPA Subtest-3	22.98	22.52	22.61	23.50	22.51	22.70	22.50	23.50	22.26	22.27	22.24	23.50		
3GPP Rel 8	DC-HSDPA Subtest-4	22.41	22.38	22.11	23.50	22.60	22.68	22.51	23.50	22.29	22.21	22.30	23.50		
3GPP Rel 6	HSUPA Subtest-1	22.37	22.44	22.17	24.00	22.37	22.50	22.15	24.00	22.38	22.37	22.17	24.00		
3GPP Rel 6	HSUPA Subtest-2	21.19	21.20	21.31	22.00	21.34	21.40	21.32	22.00	21.00	21.01	20.98	22.00		
3GPP Rel 6	HSUPA Subtest-3	22.21	22.13	22.34	23.00	22.36	22.44	22.26	23.00	22.00	21.98	22.06	23.00		
3GPP Rel 6	HSUPA Subtest-4	21.23	21.19	21.30	22.00	21.30	21.42	21.28	22.00	20.99	20.98	20.83	22.00		
3GPP Rel 6	HSUPA Subtest-5	23.20	23.20	23.30	24.00	23.12	23.40	23.30	24.00	23.00	23.00	23.10	24.00		



Band 4 (1900MHz Band) Ant0 Default Power
Part 24.05

BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freq	Power Hsp / Ch / Freq	Power Hsp / Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
1860 1860 1860									
20	QPSK	1	0	22.74	22.62	22.73	24	0	
20	QPSK	1	49	22.72	22.64	22.71			
20	QPSK	1	99	22.62	22.69	22.69			
20	QPSK	50	0	22.74	22.67	22.74			
20	QPSK	50	24	22.80	22.78	22.78	24	0	
20	QPSK	50	49	22.68	22.70	22.72			
20	QPSK	100	0	22.79	22.63	22.77			
20	QPSK	100	24	22.68	22.70	22.68			
20	16QAM	1	49	22.64	22.52	22.58	24	0	
20	16QAM	1	99	22.55	22.60	22.56			
20	16QAM	50	0	22.62	22.59	22.56			
20	16QAM	50	24	22.73	22.70	22.65			
20	16QAM	50	49	22.61	22.69	22.61	24	0	
20	16QAM	100	0	22.71	22.70	22.70			
20	16QAM	100	24	22.70	22.70	22.70			
20	16QAM	100	49	22.56	22.70	22.60			
20	64QAM	1	0	22.66	22.70	22.60	24	0	
20	64QAM	1	49	22.59	22.56	22.58			
20	64QAM	1	99	22.55	22.57	22.57			
20	64QAM	50	0	22.62	22.70	22.65			
20	64QAM	50	24	22.71	22.70	22.69	24	0	
20	64QAM	50	49	22.62	22.68	22.60			
20	64QAM	100	0	22.77	22.71	22.70			
20	64QAM	100	24	22.77	22.71	22.70			
20	256QAM	1	49	19.58	19.58	19.50	20	4	
20	256QAM	1	99	19.41	19.41	19.43			
20	256QAM	50	0	19.10	19.09	19.10			
20	256QAM	50	24	19.05	19.08	19.05			
20	256QAM	50	49	19.05	19.05	19.04	20	4	
20	256QAM	100	0	19.05	19.05	19.05			
20	256QAM	100	24	19.05	19.08	19.04			
20	256QAM	100	49	19.05	19.08	19.04			
Channel									
1865 1865 1865									
15	QPSK	1	0	22.62	22.78	22.80	24	0	
15	QPSK	1	49	22.62	22.78	22.80			
15	QPSK	1	99	22.56	22.58	22.59			
15	QPSK	50	0	22.61	22.71	22.64			
15	QPSK	50	24	22.75	22.68	22.69	24	0	
15	QPSK	50	49	22.63	22.70	22.58			
15	QPSK	100	0	22.73	22.60	22.64			
15	QPSK	100	24	22.73	22.60	22.64			
15	16QAM	1	49	22.52	22.61	22.53	24	0	
15	16QAM	1	99	22.52	22.62	22.52			
15	16QAM	50	0	22.58	22.54	22.57			
15	16QAM	50	24	22.66	22.68	22.55			
15	16QAM	50	49	22.65	22.68	22.55	24	0	
15	16QAM	100	0	22.65	22.68	22.55			
15	16QAM	100	24	22.65	22.68	22.55			
15	16QAM	100	49	22.61	22.63	22.61			
15	64QAM	1	0	22.65	22.68	22.49	24	0	
15	64QAM	1	49	22.63	22.65	22.64			
15	64QAM	1	99	22.57	22.60	22.54			
15	64QAM	50	0	22.47	22.44	22.51			
15	64QAM	50	0	22.62	22.63	22.56	24	0	
15	64QAM	50	24	22.67	22.65	22.58			
15	64QAM	50	49	22.50	22.51	22.52			
15	64QAM	75	0	22.70	22.65	22.68			
15	256QAM	1	49	19.54	19.54	19.46	20	4	
15	256QAM	1	99	19.48	19.48	19.49			
15	256QAM	50	0	19.10	19.09	19.10			
15	256QAM	50	24	19.05	19.08	19.05			
15	256QAM	50	49	19.05	19.05	19.04	20	4	
15	256QAM	100	0	19.05	19.05	19.05			
15	256QAM	100	24	19.05	19.08	19.04			
15	256QAM	100	49	19.05	19.08	19.04			
Channel									
1865 1865 1865									
15	QPSK	1	0	22.59	22.71	22.79	24	0	
15	QPSK	1	49	22.56	22.68	22.64			
15	QPSK	1	99	22.57	22.63	22.58			
15	QPSK	25	13	22.69	22.72	22.63		24	0
15	QPSK	25	25	22.63	22.68	22.58			
15	QPSK	25	49	22.63	22.68	22.58			
15	QPSK	100	0	22.59	22.67	22.70			
15	16QAM	1	0	22.59	22.61	22.48	24	0	
15	16QAM	1	25	22.62	22.38	22.48			
15	16QAM	50	0	22.60	22.58	22.53			
15	16QAM	50	24	22.48	22.62	22.57			
15	16QAM	50	49	22.49	22.62	22.57	24	0	
15	16QAM	100	0	22.63	22.60	22.54			
15	16QAM	100	24	22.48	22.60	22.54			
15	16QAM	100	49	22.48	22.60	22.54			
15	256QAM	1	25	19.48	19.40	19.40	20	4	
15	256QAM	1	25	19.52	19.54	19.55			
15	256QAM	1	49	19.38	19.38	19.38			
15	256QAM	50	0	19.07	19.05	19.08			
15	256QAM	50	24	19.01	19.05	19.01	20	4	
15	256QAM	50	49	19.01	19.05	19.01			
15	256QAM	100	0	19.05	19.05	19.03			
15	256QAM	100	24	19.05	19.05	19.03			
Channel									
1865 1865 1865									
3	QPSK	1	0	22.65	22.70	22.58	24	0	
3	QPSK	1	8	22.67	22.54	22.86			
3	QPSK	1	14	22.50	22.57	22.59			
3	QPSK	8	4	22.68	22.78	22.64			
3	QPSK	8	4	22.72	22.78	22.82	24	0	
3	QPSK	8	7	22.61	22.69	22.59			
3	QPSK	8	7	22.70	22.67	22.70			
3	16QAM	1	0	22.60	22.60	22.45			
3	16QAM	1	8	22.58	22.45	22.50			
3	16QAM	1	14	22.47	22.49	22.40			
3	16QAM	8	0	22.53	22.58	22.51			
3	16QAM	8	4	22.61	22.66	22.52	24	0	
3	16QAM	8	7	22.55	22.59	22.53			
3	16QAM	15	0	22.65	22.69	22.64			
3	16QAM	15	0	22.58	22.61	22.48			
3	16QAM	15	0	22.48	22.43	22.46			
3	64QAM	1	14	22.44	22.47	22.46	24	0	
3	64QAM	8	0	22.49	22.49	22.39			
3	64QAM	8	7	22.60	22.60	22.60			
3	64QAM	8	7	22.56	22.58	22.50			
3	64QAM	15	0	22.46	22.43	22.47	20	4	
3	256QAM	1	8	19.46	19.43	19.47			
3	256QAM	1	8	19.55	19.55	19.55			
3	256QAM	8	0	19.07	19.07	19.07			
3	256QAM	8	4	19.02	19.04	19.00			
3	256QAM	8	7	19.07	19.08	19.00			
3	256QAM	15	0	19.03	19.04	19.06			
Channel									
1867 1865 1903									
1.4	QPSK	1	0	22.60	22.80	22.50	24	0	
1.4	QPSK	1	3	22.60	22.58	22.62			
1.4	QPSK	1	5	22.54	22.60	22.57			
1.4	QPSK	3	0	22.63	22.71	22.68			
1.4	QPSK	3	1	22.72	22.70	22.69	24	0	
1.4	QPSK	3	3	22.54	22.65	22.63			
1.4	QPSK	3	6	22.68	22.68	22.72			
1.4	QPSK	10	0	22.59	22.67	22.51			
1.4	16QAM	1	0	22.49	22.49	22.49			
1.4	16QAM	1	3	22.44	22.54	22.43			
1.4	16QAM	3	0	22.63	22.59	22.56			
1.4	16QAM	3	3	22.61	22.58	22.59			
1.4	16QAM	3	6	22.47	22.58	22.52	24	0	
1.4	16QAM	3	3	22.47	22.58	22.52			
1.4	16QAM	10	0	22.57	22.65	22.49			
1.4	16QAM	10	3	22.46	22.44	22.47			
1.4	16QAM	10	6	22.43	22.43	22.43			
1.4	64QAM	1	0	22.52	22.59	22.48	20	4	
1.4	64QAM	1	3	22.51	22.57	22.58			
1.4	64QAM	1	6	22.52	22.52	22.52			
1.4	64QAM	3	0	22.48	22.48	22.48			
1.4	64QAM	3	3	22.47	22.47	22.47			
1.4	64QAM	3	6	22.43	22.43	22.43			
1.4	64QAM	10	0	22.50	22.59	22.44			
1.4	64QAM	10	3	22.49	22.49	22.49			
1.4	64QAM	10	6	22.45	22.45	22.45			
1.4	256QAM	1	5	19.37	19.38	19.38	20	4	
1.4	256QAM	1	6	19.38	19.38	19.38			
1.4	256QAM	3	0	19.03	19.04	19.03			
1.4	256QAM	3	3	19.01	19.03	19.00			

Band 12 (700MHz Low Band) Ant0 Default Power Part 27F(only on channel required)														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	22.68	22.63	22.76	24	0						
10	QPSK	1	25	22.88	22.81	22.81								
10	QPSK	1	49	22.85	22.79	22.84								
10	QPSK	25	0	22.89	22.82	22.90								
10	QPSK	25	12	22.90	22.81	22.83								
10	QPSK	25	25	22.90	22.88	22.85	24	0						
10	QPSK	50	0	22.79	22.61	22.76								
10	16QAM	1	0	22.66	22.61	22.70								
10	16QAM	1	25	22.76	22.69	22.72								
10	16QAM	1	49	22.82	22.77	22.79								
10	16QAM	25	0	22.83	22.75	22.89	24	0						
10	16QAM	25	12	22.87	22.83	22.81								
10	16QAM	25	25	22.88	22.82	22.84								
10	16QAM	50	0	22.76	22.65	22.68								
10	16QAM	50	1	0	22.67	22.50	22.69							
10	64QAM	1	0	22.64	22.61	22.72	24	0						
10	64QAM	1	26	22.84	22.81	22.72								
10	64QAM	49	22.77	22.77	22.79									
10	64QAM	25	0	22.86	22.72	22.87								
10	64QAM	25	12	22.89	22.86	22.79								
10	64QAM	25	25	22.91	22.79	22.83	24	0						
10	64QAM	50	0	22.74	22.62	22.69								
10	256QAM	1	0	19.17	19.41	19.14								
10	256QAM	1	26	19.98	19.29	19.22								
10	256QAM	1	49	19.31	19.28	19.95								
10	256QAM	25	0	19.46	19.46	19.46	20	4						
10	256QAM	25	12	19.87	19.50	19.40								
10	256QAM	25	25	19.31	19.17	19.20								
10	256QAM	50	0	19.05	19.22	19.02								
10	256QAM	50	1	0	19.22	19.02								
Channel														
Frequency (MHz)														
5	QPSK	1	0	22.68	22.63	22.74	24	0						
5	QPSK	1	12	22.82	22.84	22.79								
5	QPSK	1	24	22.78	22.70	22.77								
5	QPSK	12	0	22.87	22.70	22.87								
5	QPSK	12	7	22.81	22.85	22.77								
5	QPSK	12	13	22.81	22.83	22.76	24	0						
5	QPSK	25	0	22.70	22.70	22.74								
5	16QAM	1	0	22.60	22.74	22.67								
5	16QAM	1	12	22.68	22.84	22.68								
5	16QAM	12	0	22.81	22.81	22.76								
5	16QAM	12	7	22.76	22.63	22.74	24	0						
5	16QAM	12	13	22.85	22.85	22.88								
5	16QAM	25	0	22.66	22.81	22.66								
5	64QAM	1	0	22.58	22.86	22.63								
5	64QAM	1	24	22.73	22.69	22.74								
5	64QAM	1	24	22.73	22.69	22.74	24	0						
5	64QAM	12	0	22.86	22.72	22.79								
5	64QAM	12	7	22.76	22.74	22.79								
5	64QAM	12	13	22.76	22.70	22.73								
5	64QAM	25	0	22.67	22.77	22.67								
5	256QAM	1	0	19.05	19.05	19.05	20	4						
5	256QAM	1	12	19.92	19.57	19.27								
5	256QAM	1	24	19.23	19.03	19.05								
5	256QAM	12	0	19.37	19.44	19.33								
5	256QAM	12	7	19.37	19.44	19.33								
5	256QAM	12	13	19.21	19.36	19.35	20	4						
5	256QAM	25	0	19.17	19.15	19.15								
Channel														
Frequency (MHz)														
3	QPSK	1	0	22.68	22.63	22.72	24	0						
3	QPSK	1	14	22.78	22.77	22.82								
3	QPSK	1	0	22.83	22.78	22.86								
3	QPSK	8	4	22.82	22.79	22.79								
3	16QAM	1	0	22.64	22.81	22.72								
3	16QAM	1	8	22.75	22.78	22.67	24	0						
3	16QAM	8	0	22.83	22.79	22.86								
3	16QAM	8	4	22.77	22.76	22.82								
3	16QAM	15	0	22.72	22.70	22.67								
3	64QAM	1	0	22.59	22.90	22.62								
3	64QAM	1	8	22.74	22.73	22.72	24	0						
3	64QAM	1	14	22.73	22.70	22.80								
3	64QAM	8	0	22.77	22.63	22.86								
3	64QAM	8	4	22.72	22.67	22.74								
3	64QAM	8	7	22.76	22.74	22.80								
3	64QAM	15	0	22.66	22.77	22.58	24	0						
3	256QAM	1	0	19.18	19.06	19.21								
3	256QAM	1	8	19.81	19.99	19.17								
3	256QAM	1	14	19.65	19.17	19.30								
3	256QAM	1	15	19.67	19.25	19.37								
3	256QAM	8	4	19.54	19.44	19.43	20	4						
3	256QAM	8	7	19.52	19.13	19.26								
3	256QAM	15	0	19.20	19.70	19.59								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	22.53	22.54	22.75	24	0						
1.4	QPSK	1	3	22.76	22.81	22.70								
1.4	QPSK	1	5	22.72	22.74	22.77								
1.4	QPSK	3	0	22.82	22.86	22.80								
1.4	QPSK	3	1	22.77	22.82	22.74								
1.4	QPSK	3	3	22.80	22.77	22.77	24	0						
1.4	QPSK	6	0	22.76	22.88	22.66								
1.4	16QAM	1	0	22.62	22.70	22.59								
1.4	16QAM	1	3	22.76	22.76	22.61								
1.4	16QAM	1	6	22.71	22.70	22.70								
1.4	16QAM	3	0	22.80	22.68	22.85	24	0						
1.4	16QAM	3	1	22.83	22.72	22.69								
1.4	16QAM	3	3	22.85	22.74	22.71								
1.4	16QAM	6	0	22.68	22.81	22.64								
1.4	64QAM	1	0	22.60	22.62	22.64								
1.4	64QAM	1	3	22.75	22.69	22.64	24	0						
1.4	64QAM	1	5	22.66	22.62	22.70								
1.4	64QAM	3	0	22.80	22.66	22.82								
1.4	64QAM	3	3	22.72	22.65	22.76								
1.4	64QAM	3	3	22.70	22.67	22.76								
1.4	64QAM	6	0	22.68	22.76	22.64	24	0						
1.4	64QAM	6	0	19.16	19.23	19.06								
1.4	256QAM	1	3	19.97	19.02	19.96								
1.4	256QAM	1	5	19.03	19.36	19.36								
1.4	256QAM	3	3	19.27	19.10	19.25								
1.4	256QAM	3	3	19.14	19.26	19.31	20	4						
1.4	256QAM	6	0	19.43	19.06	19.31								

Band 13(700MHz Band) Ant0 Default Power									
Part 27F									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up Time (Sec)	MFR (dB)	
Channel				25200					
10	QPSK	1	0	22.22	22.22	22.22	24	0	
10	QPSK	1	25	22.2	22.2	22.2			
10	QPSK	25	0	22.93	22.93	22.93			
10	QPSK	25	0	22.93	22.93	22.93			
10	QPSK	25	12	22.89	22.89	22.89	24	0	
10	QPSK	25	25	22.91	22.91	22.91			
10	QPSK	50	0	22.88	22.88	22.88			
10	16QAM	1	0	23.06	23.06	23.06			
10	16QAM	1	25	23.04	23.04	23.04	24	0	
10	16QAM	25	0	23.07	23.07	23.07			
10	16QAM	25	12	23.19	23.19	23.19			
10	16QAM	25	25	23.28	23.28	23.28			
10	16QAM	25	25	22.96	22.96	22.96	23	1	
10	16QAM	50	0	22.3	22.3	22.3			
10	16QAM	50	25	22.94	22.94	22.94			
10	16QAM	1	25	23.01	23.01	23.01			
10	16QAM	1	49	23.01	23.01	23.01	24	0	
10	16QAM	25	12	22.22	22.22	22.22			
10	16QAM	25	12	22.34	22.34	22.34			
10	16QAM	25	25	22.38	22.38	22.38			
10	16QAM	25	25	22.31	22.31	22.31	23	1	
10	256QAM	1	0	19.62	19.62	19.62			
10	256QAM	1	25	19.78	19.78	19.78			
10	256QAM	1	49	19.84	19.84	19.84			
10	256QAM	25	0	20.54	20.54	20.54	24	0	
10	256QAM	25	12	19.79	19.79	19.79			
10	256QAM	25	25	19.73	19.73	19.73			
10	256QAM	50	0	18.68	18.68	18.68			
Channel				23000					
Frequency (MHz)				23000			Turn-up Time (Sec)	MFR (dB)	
5	QPSK	1	0	22.77	22.71	22.76	24	0	
5	QPSK	1	12	22.75	22.81	22.87			
5	QPSK	12	25	22.83	22.81	22.81			
5	QPSK	12	25	22.69	22.69	22.78			
5	QPSK	12	7	22.83	22.74	22.81	24	0	
5	QPSK	12	19	22.83	22.83	22.83			
5	QPSK	25	0	22.78	22.73	22.83			
5	16QAM	1	0	23.12	23.14	23.09			
5	16QAM	1	12	23.21	23.07	23.25	24	0	
5	16QAM	1	25	23.07	23.07	23.04			
5	16QAM	12	0	22.21	22.17	22.48			
5	16QAM	12	25	22.19	22.20	22.20			
5	16QAM	12	19	23.14	23.40	23.24	23	1	
5	16QAM	25	0	22.17	22.29	22.27			
5	16QAM	25	12	22.06	22.06	22.07			
5	16QAM	1	12	23.03	22.99	23.05			
5	16QAM	1	24	22.91	23.02	22.87	24	0	
5	16QAM	1	25	22.20	22.20	22.41			
5	16QAM	12	0	22.18	22.38	22.37			
5	16QAM	12	19	22.18	22.38	22.19			
5	16QAM	25	0	22.19	22.31	22.29	23	1	
5	16QAM	25	12	22.18	22.33	22.36			
5	256QAM	1	12	19.19	19.31	19.24			
5	256QAM	1	24	19.25	19.59	19.31			
5	256QAM	12	0	19.17	19.24	19.26	20	4	
5	256QAM	12	19	19.28	19.24	19.27			
5	256QAM	12	19	19.29	19.17	19.38			
5	256QAM	12	19	19.22	19.22	19.22			



Band 26 for FCC Ant0 Default Power (only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up level (dB)	MFR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.51	22.61	22.52			24	0		
15	QPSK	1	37	22.38	22.52	22.56						
15	QPSK	1	74	22.45	22.59	22.58			24	0		
15	QPSK	36	0	22.47	22.57	22.48						
15	QPSK	36	20	22.54	22.49	22.53			24	0		
15	QPSK	36	39	22.42	22.56	22.52						
15	QPSK	75	0	22.54	22.57	22.56			24	0		
15	HQDM	1	0	22.48	22.56	22.46						
15	HQDM	1	37	22.53	22.47	22.52			24	0		
15	HQDM	1	74	22.59	22.55	22.53						
15	HQDM	36	0	22.62	22.52	22.45			24	0		
15	HQDM	36	20	22.51	22.43	22.52						
15	HQDM	36	39	22.59	22.53	22.49			24	0		
15	HQDM	75	0	22.51	22.55	22.53						
15	HQDM	1	0	22.47	22.55	22.47			24	0		
15	HQDM	1	37	22.56	22.49	22.51						
15	HQDM	1	74	22.59	22.57	22.54			24	0		
15	HQDM	36	0	22.45	22.54	22.45						
15	HQDM	36	20	22.51	22.43	22.52			24	0		
15	HQDM	36	39	22.58	22.52	22.49						
15	HQDM	75	0	22.48	22.53	22.56			20	4		
15	SSBQAM	1	0	18.18	18.25	18.17						
15	SSBQAM	1	37	18.15	18.07	18.22			20	4		
15	SSBQAM	1	74	18.82	18.88	18.94						
15	SSBQAM	36	0	18.03	18.11	18.06			20	4		
15	SSBQAM	36	20	19.14	19.12	19.15						
15	SSBQAM	36	39	18.77	18.73	18.80			20	4		
15	SSBQAM	75	0	18.11	18.15	18.20						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.43	22.58	22.48			24	0		
10	QPSK	1	25	22.53	22.50	22.55						
10	QPSK	1	49	22.42	22.55	22.54			24	0		
10	QPSK	26	0	22.41	22.54	22.45						
10	QPSK	26	12	22.49	22.43	22.49			24	0		
10	QPSK	26	25	22.38	22.50	22.47						
10	QPSK	50	0	22.41	22.53	22.45			24	0		
10	HQDM	1	0	22.42	22.51	22.42						
10	HQDM	1	25	22.48	22.42	22.49			24	0		
10	HQDM	1	49	22.38	22.45	22.42						
10	HQDM	25	0	22.40	22.49	22.40			24	0		
10	HQDM	25	12	22.47	22.39	22.47						
10	HQDM	25	25	22.48	22.52	22.49			24	0		
10	HQDM	50	0	22.42	22.50	22.44						
10	HQDM	1	25	22.51	22.44	22.51			24	0		
10	HQDM	1	49	22.54	22.51	22.52						
10	HQDM	25	0	22.43	22.49	22.39			24	0		
10	HQDM	25	12	22.47	22.38	22.48						
10	HQDM	25	25	22.55	22.47	22.41			24	0		
10	HQDM	50	0	22.42	22.50	22.50						
10	SSBQAM	1	0	18.08	18.07	18.02			20	4		
10	SSBQAM	1	25	18.09	18.01	18.05						
10	SSBQAM	1	49	18.76	18.85	18.93			20	4		
10	SSBQAM	25	0	18.00	18.06	18.05						
10	SSBQAM	25	12	19.13	19.29	19.25			20	4		
10	SSBQAM	25	25	18.94	18.97	18.84						
10	SSBQAM	50	0	18.00	18.27	18.25						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.41	22.53	22.43			24	0		
5	QPSK	1	12	22.49	22.48	22.52						
5	QPSK	1	24	22.38	22.49	22.51			24	0		
5	QPSK	12	0	22.38	22.51	22.45						
5	QPSK	12	7	22.45	22.40	22.48			24	0		
5	QPSK	12	13	22.30	22.47	22.44						
5	QPSK	25	0	22.48	22.50	22.46			24	0		
5	HQDM	1	0	22.39	22.45	22.39						
5	HQDM	1	12	22.44	22.39	22.44			24	0		
5	HQDM	1	24	22.33	22.48	22.45						
5	HQDM	12	0	22.36	22.44	22.37			24	0		
5	HQDM	12	7	22.43	22.38	22.44						
5	HQDM	12	13	22.31	22.45	22.45			24	0		
5	HQDM	25	0	22.44	22.48	22.44						
5	HQDM	1	0	22.39	22.47	22.45			24	0		
5	HQDM	1	12	22.49	22.42	22.48						
5	HQDM	1	24	22.29	22.48	22.45			24	0		
5	HQDM	12	0	22.40	22.46	22.34						
5	HQDM	12	7	22.44	22.33	22.43			24	0		
5	HQDM	12	13	22.52	22.44	22.38						
5	HQDM	25	0	22.37	22.46	22.44			24	0		
5	SSBQAM	1	0	18.03	18.04	18.17						
5	SSBQAM	1	12	18.23	18.16	18.12			20	4		
5	SSBQAM	1	24	18.86	18.93	19.10						
5	SSBQAM	12	0	18.09	18.65	18.11			20	4		
5	SSBQAM	12	7	18.96	18.93	18.98						
5	SSBQAM	12	13	18.89	18.93	18.77			20	4		
5	SSBQAM	25	0	18.06	18.27	18.25						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.39	22.51	22.43			24	0		
3	QPSK	1	5	22.43	22.43	22.45						
3	QPSK	1	14	22.38	22.49	22.44			24	0		
3	QPSK	8	0	22.35	22.46	22.37						
3	QPSK	8	4	22.40	22.34	22.48			24	0		
3	QPSK	8	7	22.30	22.44	22.37						
3	QPSK	16	0	22.43	22.44	22.41			24	0		
3	HQDM	1	0	22.32	22.40	22.33						
3	HQDM	1	8	22.38	22.34	22.42			24	0		
3	HQDM	1	14	22.26	22.41	22.43						
3	HQDM	8	0	22.33	22.42	22.39			24	0		
3	HQDM	8	4	22.41	22.33	22.39						
3	HQDM	8	7	22.27	22.39	22.39			24	0		
3	HQDM	16	0	22.42	22.45	22.42						
3	HQDM	1	0	22.35	22.38	22.37			24	0		
3	HQDM	1	8	22.43	22.39	22.41						
3	HQDM	1	14	22.26	22.42	22.44			24	0		
3	HQDM	8	0	22.35	22.38	22.33						
3	HQDM	8	4	22.39	22.31	22.38			24	0		
3	HQDM	8	7	22.27	22.39	22.37						
3	HQDM	16	0	22.36	22.39	22.42			24	0		
3	SSBQAM	1	0	18.79	18.08	18.96						
3	SSBQAM	1	8	19.02	19.26	19.13			20	4		
3	SSBQAM	1	14	18.86	18.97	18.93						
3	SSBQAM	8	0	18.85	18.88	18.10			20	4		
3	SSBQAM	8	4	19.25	19.27	19.05						
3	SSBQAM	8	7	18.91	18.97	18.86			20	4		
3	SSBQAM	16	0	18.15	18.98	18.25						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.35	22.47	22.33			24	0		
1.4	QPSK	1	3	22.43	22.40	22.39						
1.4	QPSK	3	0	22.31	22.44	22.39			24	0		
1.4	QPSK	3	1	22.93	22.27	22.43						
1.4	QPSK	3	5	22.22	22.36	22.33			24	0		
1.4	QPSK	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28			24	0		
1.4	HQDM	1	3	22.37	22.31	22.38						
1.4	HQDM	3	0	22.32	22.34	22.33			24	0		
1.4	HQDM	3	1	22.93	22.27	22.43						
1.4	HQDM	3	5	22.22	22.36	22.33			24	0		
1.4	HQDM	6	0	22.38	22.42	22.39						
1.4	HQDM	1	0	22.30	22.39	22.28						



Band 38(only on channel required) Ant0 Default Power											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.23	23.49	23.26					
20	QPSK	1	49	23.42	23.42	23.30	24	0			
20	QPSK	1	99	23.36	23.35	23.30					
20	QPSK	50	0	23.17	23.43	23.22					
20	QPSK	50	24	23.26	23.37	23.26	24	0			
20	QPSK	50	50	23.34	23.32	23.27					
20	QPSK	100	0	23.27	23.39	23.34					
20	16QAM	1	0	23.17	23.46	23.21					
20	16QAM	1	49	23.37	23.37	23.24	24	0			
20	16QAM	1	99	23.33	23.31	23.25					
20	16QAM	50	0	23.12	23.40	23.16					
20	16QAM	50	24	23.34	23.37	23.23	24	0			
20	16QAM	50	50	23.31	23.28	23.21					
20	16QAM	100	0	23.23	23.23	23.30					
20	64QAM	1	0	23.14	23.43	23.17					
20	64QAM	1	49	23.32	23.33	23.19	24	0			
20	64QAM	1	99	23.29	23.27	23.20					
20	64QAM	50	0	23.10	23.36	23.12					
20	64QAM	50	24	23.29	23.31	23.18	24	0			
20	64QAM	50	50	23.25	23.24	23.15					
20	64QAM	100	0	23.20	23.20	23.28					
20	256QAM	1	0	21.25	21.39	21.32	22	2			
20	256QAM	1	49	21.22	20.96	21.24					
20	256QAM	1	99	21.00	21.23	21.19					
20	256QAM	50	0	21.02	21.28	21.28					
20	256QAM	50	24	21.43	21.49	21.34	22	2			
20	256QAM	50	50	21.48	21.39	21.18					
20	256QAM	100	0	21.20	20.91	21.28					
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.19	23.47	23.24					
15	QPSK	1	37	23.38	23.39	23.26	24	0			
15	QPSK	1	74	23.33	23.32	23.27					
15	QPSK	36	0	23.14	23.39	23.19					
15	QPSK	36	20	23.35	23.38	23.20	24	0			
15	QPSK	36	39	23.31	23.28	23.24					
15	QPSK	75	0	23.21	23.24	23.29					
15	16QAM	1	0	23.14	23.40	23.19					
15	16QAM	1	37	23.35	23.33	23.20	24	0			
15	16QAM	1	74	23.30	23.27	23.22					
15	16QAM	36	0	23.07	23.38	23.14					
15	16QAM	36	20	23.31	23.31	23.18	24	0			
15	16QAM	36	39	23.27	23.24	23.16					
15	16QAM	75	0	23.18	23.19	23.25					
15	16QAM	1	0	23.11	23.39	23.13					
15	64QAM	1	37	23.30	23.29	23.14	24	0			
15	64QAM	1	74	23.27	23.23	23.17					
15	64QAM	36	0	23.07	23.32	23.08					
15	64QAM	36	20	23.24	23.25	23.23	24	0			
15	64QAM	36	39	23.20	23.19	23.10					
15	64QAM	75	0	23.14	23.16	23.22					
15	256QAM	1	0	21.31	21.07	21.19	22	2			
15	256QAM	1	37	21.16	21.19	21.16					
15	256QAM	1	74	21.01	21.17	21.09					
15	256QAM	36	0	21.08	21.43	21.35					
15	256QAM	36	20	21.43	21.53	21.30	22	2			
15	256QAM	36	39	21.39	21.37	21.05					
15	256QAM	75	0	21.27	20.93	21.19					
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.16	23.42	23.19					
10	QPSK	1	25	23.35	23.33	23.23	24	0			
10	QPSK	1	49	23.27	23.29	23.23					
10	QPSK	25	0	23.12	23.36	23.13					
10	QPSK	25	12	23.33	23.35	23.17	24	0			
10	QPSK	25	25	23.27	23.23	23.20					
10	QPSK	50	0	23.18	23.20	23.23					
10	16QAM	1	0	23.10	23.40	23.14					
10	16QAM	1	25	23.29	23.31	23.15	24	0			
10	16QAM	1	49	23.24	23.21	23.20					
10	16QAM	25	0	23.01	23.34	23.09					
10	16QAM	25	12	23.27	23.26	23.16	24	0			
10	16QAM	25	25	23.24	23.21	23.12					
10	16QAM	50	0	23.12	23.16	23.20					
10	64QAM	1	0	23.07	23.37	23.08					
10	64QAM	1	25	23.27	23.26	23.11	24	0			
10	64QAM	1	49	23.24	23.17	23.13					
10	64QAM	25	0	23.01	23.28	23.04					
10	64QAM	25	12	23.22	23.19	23.09	24	0			
10	64QAM	25	25	23.18	23.16	23.07					
10	64QAM	50	0	23.10	23.12	23.19					
10	256QAM	1	0	21.21	20.77	20.97					
10	256QAM	1	25	20.91	21.12	21.04	22	2			
10	256QAM	1	49	21.17	21.16	20.84					
10	256QAM	25	0	21.21	21.34	21.12					
10	256QAM	25	12	21.30	21.48	21.32	22	2			
10	256QAM	25	25	21.42	21.57	21.18					
10	256QAM	50	0	20.91	20.96	21.03					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.14	23.39	23.15					
5	QPSK	1	12	23.29	23.28	23.19	24	0			
5	QPSK	1	24	23.24	23.26	23.17					
5	QPSK	12	0	23.09	23.32	23.10					
5	QPSK	12	7	23.29	23.32	23.13	24	0			
5	QPSK	12	13	23.24	23.19	23.14					
5	QPSK	25	0	23.15	23.15	23.19					
5	16QAM	1	0	23.05	23.29	23.12					
5	16QAM	1	12	23.24	23.25	23.13	24	0			
5	16QAM	1	24	23.19	23.18	23.15					
5	16QAM	12	0	22.97	23.29	23.06					
5	16QAM	12	7	23.22	23.24	23.14	24	0			
5	16QAM	12	13	23.20	23.18	23.09					
5	16QAM	25	0	23.07	23.14	23.15					
5	64QAM	1	0	23.02	23.32	23.04					
5	64QAM	1	12	23.23	23.24	23.07	24	0			
5	64QAM	1	24	23.18	23.14	23.10					
5	64QAM	12	0	22.98	23.24	23.00					
5	64QAM	12	7	23.19	23.14	23.05	24	0			
5	64QAM	12	13	23.14	23.09	23.02					
5	64QAM	25	0	23.05	23.07	23.14					
5	256QAM	1	0	20.99	21.37	21.02					
5	256QAM	1	12	21.21	20.91	21.17	22	2			
5	256QAM	1	24	21.01	20.97	20.86					
5	256QAM	12	0	21.09	21.02	21.04					
5	256QAM	12	7	21.23	21.42	21.47	22	2			
5	256QAM	12	13	21.38	21.18	21.16					
5	256QAM	25	0	20.87	20.94	21.12					

Band 38(only on channel required) PC2 Ant0 Default Power											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (dBm)	MPE (db)			
Channel				37650	38000	38150					
Frequency (MHz)				26.24	26.26	26.28					
20	QPSK	1	0	26.24	26.41	26.33					
20	QPSK	1	49	26.38	26.35	26.32	27	0			
20	QPSK	1	99	26.33	26.27	26.27					
20	QPSK	50	0	26.35	26.38	26.33					
20	QPSK	50	24	26.31	26.34	26.23	27	0			
20	QPSK	50	50	26.30	26.27	26.26					
20	QPSK	100	0	26.35	26.38	26.35					
20	16QAM	1	0	26.19	26.37	26.28					
20	16QAM	1	49	26.32	26.32	26.27	27	0			
20	16QAM	1	99	26.29	26.23	26.21					
20	16QAM	50	0	26.31	26.35	26.28					
20	16QAM	50	24	26.37	26.33	26.34	27	0			
20	16QAM	50	50	26.25	26.22	26.20					
20	16QAM	100	0	26.30	26.22	26.34					
20	64QAM	1	0	26.14	26.34	26.22					
20	64QAM	1	49	26.27	26.27	26.21	27	0			
20	64QAM	1	99	26.26	26.20	26.16					
20	64QAM	50	16	26.28	26.23	26.23	27	0			
20	64QAM	50	24	26.33	26.30	26.30					
20	64QAM	50	50	26.22	26.19	26.16					
20	64QAM	100	0	26.27	26.26	26.26					
20	256QAM	1	49	24.55	24.63	24.75	25	2			
20	256QAM	1	99	24.35	24.51	24.44					
20	256QAM	50	0	24.70	24.63	24.67					
20	256QAM	50	24	24.65	24.63	24.61	25	2			
20	256QAM	50	50	24.34	24.63	24.47					
20	256QAM	100	0	24.00	24.20	24.08					
Channel				37750	38000	38150					
Frequency (MHz)				25.775 <th>25.995</th> <th>26.125<th>Turn-up time (dBm)</th><th>MPE (db)</th></th>	25.995	26.125 <th>Turn-up time (dBm)</th> <th>MPE (db)</th>	Turn-up time (dBm)	MPE (db)			
15	QPSK	1	0	26.21	26.36	26.31					
15	QPSK	1	37	26.33	26.31	26.29	27	0			
15	QPSK	1	74	26.29	26.25	26.24					
15	QPSK	36	0	26.32	26.28	26.30					
15	QPSK	36	20	26.34	26.32	26.33	27	0			
15	QPSK	36	74	26.24	26.22	26.21					
15	QPSK	703	0	26.31	26.21	26.32	27	0			
15	16QAM	1	0	26.13	26.33	26.23					
15	16QAM	1	37	26.26	26.30	26.22	27	0			
15	16QAM	1	74	26.24	26.20	26.19					
15	16QAM	36	0	26.25	26.26	26.26					
15	16QAM	36	20	26.33	26.30	26.29	27	0			
15	16QAM	36	74	26.19	26.17	26.15					
15	16QAM	703	0	26.20	26.16	26.25					
15	64QAM	1	0	26.10	26.31	26.19					
15	64QAM	1	37	26.21	26.21	26.15	27	0			
15	64QAM	1	74	26.23	26.16	26.12					
15	64QAM	36	0	26.28	26.28	26.28					
15	64QAM	36	20	26.30	26.28	26.24	27	0			
15	64QAM	36	74	26.19	26.17	26.12					
15	64QAM	703	0	26.25	26.17	26.23					
15	256QAM	1	0	24.70	24.77	24.62					
15	256QAM	1	37	24.47	24.70	24.67	25	2			
15	256QAM	1	74	24.29	24.33	24.59					
15	256QAM	36	20	24.57	24.58	24.60					
15	256QAM	36	74	24.37	24.29	24.65	25	2			
15	256QAM	36	39	24.31	24.26	24.29					
15	256QAM	703	0	24.00	24.24	24.32					
Channel				37750	38000	38250					
Frequency (MHz)				25.775	25.995	26.15	Turn-up time (dBm)	MPE (db)			
10	QPSK	1	0	26.15	26.32	26.26					
10	QPSK	1	25	26.31	26.27	26.27	27	0			
10	QPSK	1	49	26.26	26.19	26.21					
10	QPSK	25	0	26.28	26.24	26.25					
10	QPSK	25	12	26.30	26.29	26.28	27	0			
10	QPSK	25	25	26.22	26.16	26.16					
10	QPSK	50	0	26.27	26.17	26.30					
10	16QAM	1	0	25.10	26.31	26.21					
10	16QAM	1	25	26.22	26.24	26.17	27	0			
10	16QAM	1	49	26.20	26.18	26.13					
10	16QAM	25	0	26.20	26.23	26.24					
10	16QAM	25	12	26.29	26.27	26.26	27	0			
10	16QAM	25	25	26.15	26.15	26.22					
10	16QAM	50	0	26.22	26.15	26.08					
10	64QAM	1	0	26.07	26.28	26.16					
10	64QAM	1	25	26.18	26.18	26.09	27	0			
10	64QAM	1	49	26.19	26.12	26.12					
10	64QAM	25	0	26.21	26.12	26.12					
10	64QAM	25	12	26.26	26.25	26.26	27	0			
10	64QAM	25	25	26.16	26.14	26.09					
10	64QAM	50	0	26.20	26.12	26.09					
10	256QAM	1	0	24.67	24.39	24.51					
10	256QAM	1	25	24.63	24.51	24.65	25	2			
10	256QAM	1	49	24.62	24.42	24.57					
10	256QAM	25	0	24.71	24.41	24.47					
10	256QAM	25	12	24.43	24.35	24.48	25	2			
10	256QAM	25	25	24.36	24.24	24.36					
10	256QAM	50	0	24.34	24.52	24.28					
Channel				37775	38000	38250					
Frequency (MHz)				25.725	25.995	26.175 <th>Turn-up time (dBm)</th> <th>MPE (db)</th>	Turn-up time (dBm)	MPE (db)			
5	QPSK	1	0	26.13	26.29	26.22					
5	QPSK	1	25	26.26	26.22	26.22	27	0			
5	QPSK	1	24	26.24	26.15	26.18					
5	QPSK	12	0	26.22	26.19	26.19					
5	QPSK	12	12	26.28	26.25	26.25					
5	QPSK	12	13	26.19	26.11	26.15					
5	QPSK	25	0	26.23	26.12	26.28					
5	16QAM	1	0	26.06	26.26	26.16	27	0			
5	16QAM	1	12	26.19	26.21	26.13					
5	16QAM	1	24	26.16	26.14	26.09					
5	16QAM	12	0	26.14	26.18	26.20					
5	16QAM	12	12	26.24	26.21	26.22	27	0			
5	16QAM	12	13	26.19	26.12	26.16					
5	16QAM	25	0	26.16	26.12	26.17					
5	64QAM	1	0	26.03	26.24	26.11					
5	64QAM	1	12	26.12	26.14	26.03	27	0			
5	64QAM	1	24	26.14	26.08	26.05					
5	64QAM	12	0	26.18	26.07	26.07					
5	64QAM	12	7	26.21	26.20	26.17	27	0			
5	64QAM	12	12	26.12	26.11	26.08					
5	64QAM	25	0	26.15	26.09	26.17					
5	256QAM	1	0	24.80	24.65	24.64					
5	256QAM	1	12	24.36	24.55	24.67	25	2			
5	256QAM	1	24	24.48	24.41	24.42					
5	256QAM	12	0	24.59	24.60	24.54					
5	256QAM	12	7	24.33	24.45	24.41	25	2			
5	256QAM	12	12	24.43	24.45	24.32					
5	256QAM	25	0	24.18	24.32	24.24					

Ant1 Default Power								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	169	251		128	169	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slot	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	28.03	28.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.48	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 Default Power				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	23.72	23.77	23.71	25.00
3GPP Rel 99 RMC 12.2Kbps	23.78	23.79	23.75	25.00
3GPP Rel 6 HSDPA Subtest-1	22.67	22.96	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6 HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.16	22.19	22.25	23.50
3GPP Rel 6 HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6 HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6 HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	22.86	22.87	23.04	24.00



Band 12 (700MHz Low Band) Ant1 Default Power Part 27F(only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up level (dB)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.41	22.67	22.57			24	0		
10	QPSK	1	25	22.44	22.49	22.52						
10	QPSK	1	49	22.50	22.58	22.49						
10	QPSK	25	0	22.48	22.65	22.54			24	0		
10	QPSK	25	12	22.44	22.63	22.53						
10	QPSK	25	25	22.60	22.64	22.80						
10	QPSK	50	0	22.62	22.63	22.81			24	0		
10	16QAM	1	0	22.56	22.52	22.53						
10	16QAM	1	25	22.42	22.45	22.80						
10	16QAM	1	49	22.48	22.55	22.46			24	0		
10	16QAM	25	0	22.45	22.49	22.49						
10	16QAM	25	12	22.59	22.59	22.82						
10	16QAM	25	25	22.59	22.61	22.94			24	0		
10	16QAM	50	0	22.59	22.56	22.56						
10	16QAM	50	0	22.55	22.50	22.55						
10	64QAM	1	25	22.42	22.47	22.80			24	0		
10	64QAM	1	49	22.46	22.53	22.44						
10	64QAM	25	0	21.55	21.51	21.44						
10	64QAM	25	12	21.50	21.73	21.54			23	1		
10	64QAM	25	25	21.52	21.49	21.54						
10	64QAM	50	0	21.61	21.49	21.54						
10	256QAM	1	0	20.39	20.36	20.50			22	2		
10	256QAM	1	25	20.27	20.39	20.42						
10	256QAM	1	49	20.32	20.51	20.85						
10	256QAM	25	12	20.52	20.51	20.65			22	2		
10	256QAM	25	25	20.45	20.44	20.52						
10	256QAM	50	0	20.68	20.57	20.65						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.38	22.61	22.53			24	0		
5	QPSK	1	12	22.40	22.48	22.80						
5	QPSK	1	24	22.44	22.49	22.52						
5	QPSK	12	0	22.44	22.49	22.52			24	0		
5	QPSK	12	7	22.59	22.59	22.85						
5	QPSK	12	13	22.55	22.61	22.55						
5	QPSK	25	0	22.56	22.54	22.56			24	0		
5	16QAM	1	0	22.54	22.54	22.51						
5	16QAM	1	24	22.41	22.52	22.43						
5	16QAM	12	0	22.43	22.42	22.43			24	0		
5	16QAM	12	7	22.54	22.54	22.49						
5	16QAM	25	0	22.53	22.52	22.54						
5	64QAM	1	0	22.52	22.56	22.53			24	0		
5	64QAM	1	24	22.42	22.42	22.42						
5	64QAM	12	0	21.49	21.43	21.37						
5	64QAM	12	7	21.55	21.45	21.49			23	1		
5	64QAM	12	13	21.58	21.48	21.51						
5	64QAM	25	0	21.60	21.55	21.51						
5	256QAM	1	0	20.31	20.30	20.35			22	2		
5	256QAM	1	12	20.39	20.36	20.40						
5	256QAM	1	24	20.30	20.40	20.44						
5	256QAM	12	0	20.42	20.43	20.43			22	2		
5	256QAM	12	7	20.62	20.45	20.51						
5	256QAM	12	13	20.61	20.52	20.61						
5	256QAM	25	0	20.59	20.63	20.55						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.37	22.49	22.57			24	0		
3	QPSK	1	14	22.40	22.51	22.41						
3	QPSK	1	8	22.42	22.42	22.48						
3	QPSK	8	4	22.52	22.56	22.52			24	0		
3	QPSK	8	7	22.51	22.51	22.52						
3	16QAM	1	0	22.51	22.59	22.47						
3	16QAM	1	8	22.52	22.54	22.59			24	0		
3	16QAM	8	4	22.49	22.48	22.53						
3	16QAM	8	4	22.48	22.55	22.46						
3	16QAM	15	0	22.48	22.48	22.51			24	0		
3	64QAM	1	0	22.47	22.52	22.49						
3	64QAM	1	8	22.34	22.38	22.52						
3	64QAM	1	14	22.48	22.44	22.36			23	1		
3	64QAM	8	0	21.27	21.30	21.26						
3	64QAM	8	4	21.47	21.44	21.30						
3	64QAM	8	7	21.48	21.50	21.57			22	2		
3	64QAM	15	0	21.43	21.60	21.55						
3	256QAM	1	0	20.06	20.06	20.15						
3	256QAM	1	8	20.14	20.26	20.24			22	2		
3	256QAM	1	14	20.22	20.31	20.36						
3	256QAM	8	0	20.06	20.06	20.15						
3	256QAM	8	4	20.37	20.47	20.46			22	2		
3	256QAM	8	7	20.40	20.53	20.47						
3	256QAM	15	0	20.52	20.49	20.51						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.52	22.52	22.45			24	0		
1.4	QPSK	1	3	22.33	22.37	22.52						
1.4	QPSK	1	5	22.37	22.46	22.35						
1.4	QPSK	1	0	22.36	22.41	22.43			24	0		
1.4	QPSK	3	1	22.47	22.52	22.57						
1.4	QPSK	3	3	22.50	22.54	22.48						
1.4	16QAM	1	0	22.48	22.50	22.45			24	0		
1.4	16QAM	1	3	22.27	22.29	22.45						
1.4	16QAM	1	5	22.35	22.45	22.38						
1.4	16QAM	3	0	22.33	22.35	22.32			24	0		
1.4	16QAM	3	1	22.45	22.44	22.50						
1.4	16QAM	3	3	22.45	22.45	22.41						
1.4	16QAM	6	0	22.44	22.44	22.47			24	0		
1.4	64QAM	1	0	22.44	22.47	22.45						
1.4	64QAM	1	3	22.31	22.38	22.48						
1.4	64QAM	1	5	22.36	22.39	22.30			24	0		
1.4	64QAM	3	0	22.21	22.40	22.23						
1.4	64QAM	3	2	22.45	22.35	22.58						
1.4	64QAM	3	3	22.57	22.60	22.37			23	1		
1.4	64QAM	6	0	21.84	21.35	21.92						
1.4	256QAM	1	0	20.33	20.33	20.50						
1.4	256QAM	1	3	20.45	20.08	20.36			22	2		
1.4	256QAM	1	5	20.40	20.40	20.24						
1.4	256QAM	3	1	20.28	20.42	20.19						
1.4	256QAM	3	1	20.66	20.27	20.59			22	2		
1.4	256QAM	6	0	20.53	20.67	20.45						
1.4	256QAM	6	0	20.51	20.35	20.47						

Band 13(700MHz Band) Ant1 Default Power											
Part 27F											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up level (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.48			23	0			
10	QPSK	1	25	22.45							
10	QPSK	1	49	22.24							
10	QPSK	25	0	22.19			23	0			
10	QPSK	25	12	22.15							
10	QPSK	25	25	22.17							
10	QPSK	50	0	22.11			23	0			
10	16QAM	1	0	22.44							
10	16QAM	1	25	22.34							
10	16QAM	1	49	22.42			23	0			
10	16QAM	25	0	21.44							
10	16QAM	25	12	21.62							
10	16QAM	25	25	21.67			22	1			
10	16QAM	50	0	21.68							
10	64QAM	1	0	22.01							
10	64QAM	1	25	22.09			23	0			
10	64QAM	1	49	22.08							
10	64QAM	25	12	21.42			22	1			
10	64QAM	25	25	21.67							
10	64QAM	50	0	21.68							
10	256QAM	1	0	20.80			21	2			
10	256QAM	1	25	20.44							
10	256QAM	1	49	20.40							
10	256QAM	25	0	20.51			21	2			
10	256QAM	25	12	20.55							
10	256QAM	25	25	20.45							
10	256QAM	50	0	20.53			21	2			
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.25	22.28	22.25	23	0			
5	QPSK	1	12	22.41	22.17	22.18					
5	QPSK	1	24	22.17	22.16	22.16					
5	QPSK	12	0	22.16	22.00	22.01	23	0			
5	QPSK	12	7	22.05	22.08	22.25					
5	QPSK	12	14	22.16	22.16	22.16					
5	QPSK	25	0	22.05	22.03	22.01	23	0			
5	16QAM	1	0	22.36	22.14	22.45					
5	16QAM	1	12	22.47	22.46	22.46					
5	16QAM	1	24	22.00	22.04	22.04	23	0			
5	16QAM	12	0	21.31	21.34	21.80					
5	16QAM	12	7	21.36	21.60	21.61					
5	16QAM	12	14	21.21	21.44	21.50	23	0			
5	16QAM	25	0	21.26	21.58	21.56					
5	16QAM	25	7	21.32	21.60	21.61					
5	16QAM	25	14	21.31	21.44	21.44	23	0			
5	16QAM	50	0	20.38	20.38	20.38					
5	256QAM	1	0	20.34	20.34	20.34					
5	256QAM	1	12	20.37	20.20	20.20	21	2			
5	256QAM	1	24	20.45	20.17	20.48					
5	256QAM	12	7	20.45	20.17	20.48					



Band 26 for FCC Ant1 Default Power (only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up Time (s)	MFR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.27	22.40	22.28			24	0		
15	QPSK	1	37	22.28	22.24	22.31						
15	QPSK	1	74	22.05	22.31	22.38			24	0		
15	QPSK	36	0	22.22	22.38	22.32						
15	QPSK	36	20	22.31	22.28	22.32			24	0		
15	QPSK	36	39	22.32	22.31	22.34						
15	QPSK	75	0	22.31	22.33	22.32			24	0		
15	HQAM	1	0	22.21	22.34	22.27						
15	HQAM	1	37	22.34	22.20	22.27			24	0		
15	HQAM	1	74	22.01	22.27	22.30						
15	HQAM	36	0	22.17	22.18	22.30			24	0		
15	HQAM	36	20	22.28	22.22	22.28						
15	HQAM	36	39	22.35	22.24	22.36			24	0		
15	HQAM	75	0	22.31	22.30	22.30						
15	HQAM	1	0	22.63	22.22	22.56			24	0		
15	HQAM	1	37	22.12	22.04	22.67						
15	HQAM	1	74	22.04	22.03	22.57			24	0		
15	HQAM	36	0	22.07	22.08	22.18						
15	HQAM	36	20	22.10	22.02	22.15			24	0		
15	HQAM	36	39	22.12	22.06	22.15						
15	HQAM	75	0	22.14	22.08	22.08			22	2		
15	SSBQAM	1	0	20.76	21.02	20.65						
15	SSBQAM	1	37	20.08	20.79	20.97			22	2		
15	SSBQAM	1	74	20.67	20.80	20.75						
15	SSBQAM	36	0	20.87	20.89	20.88			22	2		
15	SSBQAM	36	20	21.11	21.00	21.27						
15	SSBQAM	36	39	21.21	20.84	21.37			22	2		
15	SSBQAM	75	0	21.06	21.00	21.00						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.24	22.37	22.24			24	0		
10	QPSK	1	25	22.32	22.21	22.26						
10	QPSK	1	49	22.09	22.26	22.31			24	0		
10	QPSK	20	0	22.18	22.20	22.32						
10	QPSK	20	12	22.28	22.24	22.30			24	0		
10	QPSK	25	25	22.35	22.32	22.38						
10	QPSK	50	0	22.32	22.27	22.30			24	0		
10	HQAM	1	0	22.18	22.28	22.17						
10	HQAM	1	25	22.31	22.14	22.23			24	0		
10	HQAM	1	49	22.10	22.12	22.16						
10	HQAM	25	0	22.11	22.14	22.30			24	0		
10	HQAM	25	12	22.24	22.17	22.25						
10	HQAM	25	12	22.24	22.17	22.25			24	0		
10	HQAM	50	0	22.28	22.28	22.30						
10	HQAM	1	0	22.20	22.34	22.19			24	0		
10	HQAM	1	25	22.29	22.16	22.18						
10	HQAM	1	49	22.07	22.21	22.27			24	0		
10	HQAM	25	0	22.14	22.15	22.20						
10	HQAM	25	12	22.22	22.20	22.23			24	0		
10	HQAM	25	25	22.31	22.34	22.30						
10	SSBQAM	1	0	20.56	20.74	20.75			22	2		
10	SSBQAM	1	25	21.10	20.93	20.92						
10	SSBQAM	1	49	20.63	21.11	20.91			22	2		
10	SSBQAM	25	0	20.87	21.00	20.90						
10	SSBQAM	25	12	20.94	20.89	21.09			22	2		
10	SSBQAM	25	25	21.13	21.03	21.18						
10	SSBQAM	50	0	20.98	21.08	21.08			22	2		
10	SSBQAM	50	0	20.98	21.08	21.08						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.19	22.31	22.15			24	0		
5	QPSK	1	12	22.28	22.17	22.25						
5	QPSK	1	24	22.04	22.21	22.25			24	0		
5	QPSK	12	0	22.13	22.15	22.20						
5	QPSK	12	7	22.24	22.21	22.20			24	0		
5	QPSK	12	13	22.32	22.28	22.32						
5	QPSK	25	0	22.30	22.27	22.30			24	0		
5	HQAM	1	0	22.13	22.23	22.10						
5	HQAM	1	12	22.27	22.11	22.21			24	0		
5	HQAM	1	24	22.04	22.18	22.18						
5	HQAM	12	0	22.07	22.10	22.27			24	0		
5	HQAM	12	7	22.19	22.12	22.18						
5	HQAM	12	13	22.28	22.28	22.28			24	0		
5	HQAM	25	0	22.26	22.24	22.30						
5	HQAM	1	0	22.16	22.28	22.15			24	0		
5	HQAM	1	12	22.23	22.10	22.15						
5	HQAM	1	24	22.01	22.18	22.22			24	0		
5	HQAM	12	0	22.12	22.10	22.28						
5	HQAM	12	7	22.13	22.21	22.18			24	0		
5	HQAM	12	13	22.27	22.28	22.25						
5	HQAM	25	0	22.22	22.17	22.21			22	2		
5	SSBQAM	1	0	20.09	20.63	20.51						
5	SSBQAM	1	12	21.10	20.72	21.01			22	2		
5	SSBQAM	1	24	20.70	21.10	20.75						
5	SSBQAM	12	0	21.02	20.84	20.88			22	2		
5	SSBQAM	12	7	20.80	20.88	21.18						
5	SSBQAM	12	13	20.95	21.24	21.06			22	2		
5	SSBQAM	25	0	20.75	21.04	21.04						
Channel												
Frequency (MHz)												
3	QPSK	1	0	22.15	22.23	22.15			24	0		
3	QPSK	1	8	22.22	22.13	22.22						
3	QPSK	1	14	22.08	22.19	22.22			24	0		
3	QPSK	8	0	22.10	22.11	22.26						
3	QPSK	8	4	22.21	22.17	22.17			24	0		
3	QPSK	8	7	22.29	22.21	22.28						
3	QPSK	16	0	22.25	22.19	22.21			24	0		
3	HQAM	1	0	22.08	22.18	22.10						
3	HQAM	1	8	22.25	22.07	22.18			24	0		
3	HQAM	1	14	22.02	22.13	22.17						
3	HQAM	8	0	22.01	22.06	22.24			24	0		
3	HQAM	8	4	22.14	22.08	22.15						
3	HQAM	8	7	22.24	22.23	22.25			24	0		
3	HQAM	16	0	22.22	22.21	22.25						
3	HQAM	1	0	22.12	22.22	22.12			24	0		
3	HQAM	1	8	22.21	22.10	22.15						
3	HQAM	1	14	22.06	22.15	22.19			24	0		
3	HQAM	8	0	22.06	22.04	22.22						
3	HQAM	8	4	22.13	22.16	22.17			24	0		
3	HQAM	8	7	22.23	22.22	22.21						
3	HQAM	16	0	22.16	22.14	22.16			22	2		
3	SSBQAM	1	0	20.92	20.98	20.89						
3	SSBQAM	1	8	20.84	20.78	21.20			22	2		
3	SSBQAM	1	14	20.84	20.89	21.86						
3	SSBQAM	8	0	20.79	20.73	20.74			22	2		
3	SSBQAM	8	4	20.95	20.97	20.97						
3	SSBQAM	8	7	21.04	20.99	21.25			22	2		
3	SSBQAM	16	0	20.90	21.01	21.15						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.10	22.26	22.13			24	0		
1.4	QPSK	1	3	22.20	22.09	22.17						
1.4	QPSK	1	5	22.04	22.14	22.17			24	0		
1.4	QPSK	3	0	22.07	22.05	22.10						
1.4	QPSK	3	1	22.19	22.13	22.13			24	0		
1.4	QPSK	3	5	22.24	22.19	22.24						
1.4	HQAM	1	0	22.04	22.12	22.04			24	0		
1.4	HQAM	1	3	22.22	22.04	22.14						
1.4	HQAM	1	5	22.09	22.09	22.16			24	0		
1.4	HQAM	3	0	22.05	22.03	22.12						
1.4	HQAM	3	1	22.09	22.05	22.13			24	0		
1.4	HQAM	3	5	22.10	22.18	22.09						
1.4	HQAM	1	0	22.19	22.16	22.20			24	0		
1.4	HQAM	1	3	22.22	22.10	22.15						
1.4	HQAM	1	5	22.03	22.09	22.15			24	0		
1.4	HQAM	3	0	22.02	22.09	22.18						
1.4	HQAM	3	1	22.12	22.12	22.19			24	0		
1.4	HQAM	3	5	22.17	22.19	22.19						
1.4	HQAM	6	0	22.10	22.11	22.14			24	0		
1.4	HQAM	6	3	22.14	22.04	22.17						
1.4	HQAM	1	0	20.83	20.87	20.97			22	2		
1.4	HQAM	1	3	20.87	20.76	21.60						
1.4	SSBQAM	1	0	20.79	20.84	20.77			22	2		
1.4	SSBQAM	1	3	20.77	20.85	20.86						
1.4	SSBQAM	3	0	21.11	20.88	20.96			22	2		
1.4	SSBQAM	3	3	20.82	20.91	21.05						



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Band 38(only on channel required) Ant1 Default Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	22.62	22.89	22.72				
20	QPSK	1	49	22.70	22.73	22.68	24	0		
20	QPSK	1	99	22.77	22.61	22.65				
20	QPSK	50	0	22.77	22.85	22.71				
20	QPSK	50	24	22.84	22.77	22.73	24	0		
20	QPSK	50	50	22.66	22.65	22.62				
20	QPSK	100	0	22.79	22.83	22.70				
20	16QAM	1	0	22.43	22.75	22.53				
20	16QAM	1	49	22.88	22.86	22.70	24	0		
20	16QAM	1	99	22.74	22.88	22.66				
20	16QAM	50	0	22.78	22.76	22.76				
20	16QAM	50	24	22.79	22.32	22.80	24	0		
20	16QAM	50	50	22.82	22.60	22.66				
20	16QAM	100	0	22.76	22.62	22.76				
20	64QAM	1	0	22.83	22.87	22.84				
20	64QAM	1	49	22.87	22.88	22.75	24	0		
20	64QAM	1	99	22.59	22.58	22.59				
20	64QAM	50	0	22.68	22.84	22.70				
20	64QAM	50	24	22.87	22.77	22.79	24	0		
20	64QAM	50	50	22.63	22.70	22.69				
20	64QAM	100	0	22.78	22.76	22.76				
20	256QAM	1	0	21.50	21.52	21.49				
20	256QAM	1	49	21.31	21.34	21.32	23	1		
20	256QAM	1	99	21.38	21.41	21.38				
20	256QAM	50	0	21.32	21.35	21.31				
20	256QAM	50	24	21.62	21.64	21.61	23	1		
20	256QAM	50	50	21.69	21.73	21.71				
20	256QAM	100	0	21.51	21.54	21.52				
Channel Frequency (MHz)				37850	38000	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	22.58	22.85	22.68				
15	QPSK	1	37	22.66	22.67	22.64	24	0		
15	QPSK	1	74	22.72	22.58	22.61				
15	QPSK	36	0	22.74	22.70	22.66				
15	QPSK	36	20	22.78	22.72	22.69	24	0		
15	QPSK	36	39	22.63	22.63	22.57				
15	QPSK	75	0	22.76	22.65	22.66				
15	16QAM	1	0	22.37	22.71	22.54				
15	16QAM	1	37	22.84	22.83	22.67	24	0		
15	16QAM	1	74	22.69	22.86	22.60				
15	16QAM	36	0	22.73	22.74	22.72				
15	16QAM	36	20	22.76	22.76	22.76	24	0		
15	16QAM	36	39	22.77	22.57	22.64				
15	16QAM	75	0	22.70	22.59	22.73				
15	64QAM	1	0	22.76	22.82	22.77				
15	64QAM	1	37	22.84	22.84	22.70	24	0		
15	64QAM	1	74	22.57	22.53	22.55				
15	64QAM	36	0	22.64	22.81	22.64				
15	64QAM	36	20	22.66	22.73	22.77	24	0		
15	64QAM	36	39	22.59	22.65	22.56				
15	64QAM	75	0	22.73	22.73	22.73				
15	256QAM	1	0	21.45	21.49	21.44				
15	256QAM	1	37	21.27	21.31	21.29	23	1		
15	256QAM	1	74	21.35	21.37	21.33				
15	256QAM	36	0	21.29	21.30	21.28				
15	256QAM	36	20	21.59	21.59	21.58	23	1		
15	256QAM	36	39	21.52	21.52	21.51				
15	256QAM	75	0	21.46	21.50	21.47				
Channel Frequency (MHz)				37850	38000	38020	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	22.52	22.77	22.64				
10	QPSK	1	25	22.63	22.61	22.62	24	0		
10	QPSK	1	49	22.68	22.55	22.78				
10	QPSK	25	0	22.68	22.65	22.63				
10	QPSK	25	12	22.75	22.67	22.66	24	0		
10	QPSK	25	25	22.60	22.59	22.53				
10	QPSK	50	0	22.70	22.60	22.60				
10	16QAM	1	0	22.53	22.67	22.47	24	0		
10	16QAM	1	25	22.79	22.79	22.62				
10	16QAM	1	49	22.84	22.84	22.56				
10	16QAM	25	0	22.68	22.68	22.68	24	0		
10	16QAM	25	12	22.70	22.70	22.72				
10	16QAM	25	25	22.72	22.53	22.62				
10	16QAM	50	0	22.88	22.56	22.69				
10	64QAM	1	0	22.73	22.78	22.74	24	0		
10	64QAM	1	25	22.81	22.81	22.66				
10	64QAM	1	49	22.55	22.49	22.49				
10	64QAM	25	0	22.62	22.75	22.59				
10	64QAM	25	12	22.62	22.70	22.72	24	0		
10	64QAM	25	25	22.55	22.62	22.51				
10	64QAM	50	0	22.70	22.67	22.69				
10	256QAM	1	0	21.41	21.42	21.42				
10	256QAM	1	25	21.23	21.27	21.25	23	1		
10	256QAM	1	49	21.29	21.34	21.30				
10	256QAM	25	0	21.23	21.27	21.23				
10	256QAM	25	12	21.54	21.57	21.53	23	1		
10	256QAM	25	25	21.61	21.67	21.63				
10	256QAM	50	0	21.41	21.48	21.46				
Channel Frequency (MHz)				37775	38000	38025	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	22.46	22.76	22.60				
5	QPSK	1	12	22.57	22.56	22.59	24	0		
5	QPSK	1	24	22.83	22.50	22.74				
5	QPSK	12	0	22.63	22.63	22.67				
5	QPSK	12	7	22.73	22.63	22.62	24	0		
5	QPSK	12	13	22.58	22.53	22.50				
5	QPSK	25	0	22.68	22.64	22.55				
5	16QAM	1	0	22.31	22.61	22.41	24	0		
5	16QAM	1	12	22.76	22.75	22.58				
5	16QAM	1	24	22.61	22.79	22.52				
5	16QAM	12	0	22.65	22.65	22.62	24	0		
5	16QAM	12	7	22.66	22.28	22.69				
5	16QAM	12	13	22.70	22.50	22.60				
5	16QAM	25	0	22.64	22.51	22.67				
5	64QAM	1	0	22.71	22.72	22.69				
5	64QAM	1	12	22.76	22.75	22.63	24	0		
5	64QAM	1	24	22.50	22.45	22.47				
5	64QAM	12	0	22.57	22.69	22.56				
5	64QAM	12	7	22.77	22.66	22.70	24	0		
5	64QAM	12	13	22.50	22.38	22.45				
5	64QAM	25	0	22.65	22.61	22.64				
5	256QAM	1	0	21.41	21.44	21.42				
5	256QAM	1	12	21.24	21.26	21.24	23	1		
5	256QAM	1	24	21.31	21.34	21.29				
5	256QAM	12	0	21.25	21.26	21.21				
5	256QAM	12	7	21.52	21.58	21.53	23	1		
5	256QAM	12	13	21.62	21.67	21.63				
5	256QAM	25	0	21.41	21.47	21.44				

Band 38(only on channel required) PC2 Ant1 Default Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	25.46	25.68	25.50				
20	QPSK	1	49	25.32	25.53	25.21	26.5	0		
20	QPSK	1	99	25.25	25.49	25.20				
20	QPSK	50	0	25.37	25.56	25.21				
20	QPSK	50	24	25.25	25.40	25.15	26.5	0		
20	QPSK	50	50	25.42	25.38	25.22				
20	QPSK	100	0	25.34	25.46	25.36				
20	16QAM	1	0	25.30	25.57	25.38				
20	16QAM	1	49	25.44	25.28	25.11	26.5	0		
20	16QAM	1	99	25.29	25.40	25.46				
20	16QAM	50	0	25.23	25.46	25.26				
20	16QAM	50	24	25.16	25.38	25.28	26.5	0		
20	16QAM	50	50	25.36	25.48	25.22				
20	16QAM	100	0	25.32	25.43	25.35				
20	64QAM	1	0	25.21	25.45	25.31				
20	64QAM	1	49	25.43	25.30	25.10	26.5	0		
20	64QAM	1	99	25.43	25.47	25.24				
20	64QAM	50	0	25.07	25.46	25.38				
20	64QAM	50	24	25.24	25.38	25.35	26.5	0		
20	64QAM	50	50	25.19	25.50	25.13				
20	64QAM	100	0	25.06	25.44	25.19				
20	256QAM	1	0	24.72	24.76	24.74				
20	256QAM	1	49	24.63	24.67	24.63	25.5	1		
20	256QAM	1	99	24.52	24.56	24.53				
20	256QAM	50	0	24.69	24.71	24.69				
20	256QAM	50	24	24.59	24.63	24.60	25.5	1		
20	256QAM	50	50	24.54	24.58	24.54				
20	256QAM	100	0	23.70	23.72	23.69				
Channel Frequency (MHz)				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	25.775	25.95	26.125				
15	QPSK	1	37	25.26	25.29	25.16				
15	QPSK	1	37	25.24	25.30	25.11				
15	QPSK	1	74	24.97	25.42	25.11				
15	QPSK	36	0	24.91	25.39	25.08				
15	QPSK	36	25	25.02	25.29	24.98	26.5	0		
15	QPSK	36	39	25.27	25.06	25.02				
15	QPSK	75	0	25.11	25.24	25.28				
15	16QAM	1	0	25.23	25.55	25.37				
15	16QAM	1	37	25.15	25.13	25.08	26.5	0		
15	16QAM	1	74	25.15	25.21	25.15				
15	16QAM	36	0	24.98	25.26	25.19				
15	16QAM	36	20	24.88	25.26	25.19	26.5	0		
15	16QAM	36	39	25.02	25.12	25.04				
15	16QAM	75	0	25.10	25.32	25.20				
15	64QAM	1	0	25.15	25.29	25.12				
15	64QAM	1	37	25.12	25.05	24.92	26.5	0		
15	64QAM	1	74	25.13	25.10	25.09				
15	64QAM	36	0	24.72	25.16	25.11				
15	64QAM	36	20	25.13	25.01	25.15	26.5	0		
15	64QAM	36	39	25.14	25.19	25.00				
15	64QAM	75	0	24.81	25.17	24.69				
15	256QAM	1	0	24.67	24.73	24.69				
15	256QAM	1	37	24.60	24.83	24.60	25.5	1		
15	256QAM	1	74	24.47	24.48	24.46				
15	256QAM	36	0	24.68	24.68	24.64				
15	256QAM	36	20	24.56	24.59	24.56	25.5	1		
15	256QAM	36	39	24.52	24.55	24.51				
15	256QAM	75	0	23.66	23.69	23.67				
Channel Frequency (MHz)				37795	38000	38200	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	25.975	25.99	26.015				
10	QPSK	1	0	25.02	25.21	25.21				
10	QPSK	1	25	25.01	25.09	24.98	26.5	0		
10	QPSK	1	49	24.96	24.83	25.11				
10	QPSK	25	0	24.99	25.19	24.77				
10	QPSK	25	12	25.03	25.04	24.83	26.5	0		
10	QPSK	25	25	24.98	24.76	24.98				
10	QPSK	50	0	24.70	24.94	24.81				
10	16QAM	1	0	25.18	25.03	25.05				
10	16QAM	1	25	25.04	24.82	24.83	26.5	0		
10	16QAM	1	49	24.81	24.72	24.61				
10	16QAM	25	0	24.83	24.96	24.98				
10	16QAM	25	12	24.68	25.06	24.68	26.5	0		
10	16QAM	25	25	24.91	25.10	24.81				
10	16QAM	50	0	24.93	24.97	24.96				
10	64QAM	1	0	24.96	24.89	25.16				
10	64QAM	1	25	25.20	25.03	24.84	26.5	0		
10	64QAM	1	49	24.82	25.01	24.93				
10	64QAM	25	12	24.92	25.36	24.10				
10	64QAM	25	12	25.01	24.97	24.94	26.5	0		
10	64QAM	25	25	24.98	25.08	24.93				
10	64QAM	50	0	24.75	25.21	24.99				
10	256QAM	1	0	24.64	24.69	24.65				
10	256QAM	1	25	24.55	24.58	24.55	25.5	1		
10	256QAM	1	49	24.42	24.44	24.41				
10	256QAM	25	0	24.63	24.63	24.62				
10	256QAM	25	12	24.51	24.55	24.50	26.5	0		
10	256QAM	25	25	24.46	24.49	24.44				
10	256QAM	50	0	23.62	23.67	23.61				
Channel Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	24.72	25.20	24.83				
5	QPSK	1	12	24.93	24.83	24.83	26.5	0		
5	QPSK	12	0	24.73	24.73	24.74				
5	QPSK	12	0	24.70	24.90	24.87				
5	QPSK	12	7	24.81	24.85	24.85	26.5	0		
5	QPSK	12	13	24.79	24.65	24.63				
5	QPSK	25	0	24.70	24.66	24.52				
5	16QAM	1	0	24.92	25.01	24.79				
5	16QAM	1	12	25.05	24.71	24.84	26.5	0		
5	16QAM	1	24	24.87	24.78	24.84				
5	16QAM	12	0	25.22	25.11	25.03	26.5	0		
5	16QAM	12	7	25.14	25.03	24.85				
5	16QAM	12	13	25.03	24.78	25.11				
5	16QAM	25	0	24.68	24.97	24.91				
5	64QAM	1	0	24.98	24.93	25.14				
5	64QAM	1	12	25.25	24.79	24.93	26.5	0		
5	64QAM	1	24	24.96	24.92	24.98				
5	64QAM	12	0	24.92	25.15	24.97				
5	64QAM	12	13	25.05	24.75	24.72	26.5	0		
5	64QAM	25	0	24.98	24.81	24.63				
5	256QAM	1	0	24.65	24.69	24.67				
5	256QAM	1	12	24.57	24.61	24.59	25.5	1		
5	256QAM	1	24	24.40	24.43	24.43				
5	256QAM	12	0	24.62	24.61	24.62				
5	256QAM	12	24	24.52	24.56	24.52	25.5	1		
5	256QAM	12	13	24.46	24.49	24.44	25.5	1		
5	256QAM	25	0	23.61	23.65	23.63				



Band 42 (3.5GHz Band) Ant2 Default Power														
BW [MHz]	Modulation	RIS Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up time (min)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.02	22.04	21.87	23	0						
20	QPSK	6	0	21.91	21.81	21.79								
20	QPSK	1	56	21.59	21.74	21.57								
20	QPSK	50	24	21.51	21.82	21.48								
20	QPSK	50	0	21.45	21.85	21.44	22	1						
20	QPSK	6	0	21.41	21.48	21.47								
20	QPSK	105	0	21.41	21.38	21.47								
20	QPSK	1	0	21.51	21.22	21.58								
20	QPSK	12	60	21.59	21.42	21.45	22	1						
20	QPSK	1	56	21.25	21.29	21.18								
20	QPSK	6	0	20.99	20.96	20.97								
20	QPSK	50	24	20.94	20.99	20.99								
20	QPSK	50	0	20.99	20.90	20.94	21	2						
20	QPSK	6	0	20.53	20.26	20.26								
20	QPSK	1	0	21.45	21.30	21.26								
20	QPSK	6	0	21.23	21.31	21.27								
20	QPSK	1	56	21.40	21.88	21.38	22	1						
20	QPSK	6	0	20.94	20.94	20.94								
20	QPSK	50	24	20.62	20.37	20.38								
20	QPSK	50	0	20.69	20.50	20.54								
20	QPSK	105	0	20.59	20.35	20.45	21	2						
20	SSB-FM	1	0	18.59	18.47	18.44								
20	SSB-FM	6	0	18.33	18.31	18.35								
20	SSB-FM	1	56	18.33	18.44	18.44								
20	SSB-FM	50	24	18.24	18.25	18.24	18	5						
20	SSB-FM	6	0	18.24	18.25	18.25								
20	SSB-FM	1	56	18.24	18.27	18.25								
20	SSB-FM	50	50	18.25	18.24	18.24								
20	SSB-FM	105	0	18.20	18.24	18.21	18	5						
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.58	22.02	21.84	23	0						
15	QPSK	1	57	21.84	21.16	21.79								
15	QPSK	6	0	21.56	21.62	21.61								
15	QPSK	38	0	21.73	21.53	21.53								
15	QPSK	38	56	21.42	21.44	21.44	22	1						
15	QPSK	38	56	21.69	21.48	21.44								
15	QPSK	38	0	21.42	21.42	21.42								
15	QPSK	1	0	21.48	21.11	21.54								
15	QPSK	1	57	21.35	21.18	21.81	22	1						
15	QPSK	12	60	21.42	21.25	21.18								
15	QPSK	38	0	20.74	20.43	20.35								
15	QPSK	38	0	20.74	20.41	20.41								
15	QPSK	38	56	20.43	20.51	20.41	21	2						
15	QPSK	75	0	21.42	21.19	21.18								
15	QPSK	1	0	21.42	21.19	21.18								
15	QPSK	1	57	21.24	21.24	21.33								
15	QPSK	1	57	21.41	21.41	21.47	22	1						
15	QPSK	38	0	20.54	20.42	20.38								
15	QPSK	38	56	20.54	20.51	20.54								
15	QPSK	75	0	20.62	20.52	20.58								
15	QPSK	75	0	20.69	20.50	20.52	21	2						
15	QPSK	75	0	20.62	20.52	20.58								
15	QPSK	75	0	20.54	20.42	20.43								
15	QPSK	75	0	20.54	20.42	20.43								
15	SSB-FM	1	0	18.24	18.22	18.35	18	5						
15	SSB-FM	6	0	18.24	18.22	18.35								
15	SSB-FM	1	57	18.24	18.31	18.31								
15	SSB-FM	14	60	18.24	18.30	18.30								
15	SSB-FM	38	0	18.27	18.28	18.31	18	5						
15	SSB-FM	38	0	18.27	18.28	18.31								
15	SSB-FM	38	56	18.27	18.28	18.31								
15	SSB-FM	75	0	18.26	18.24	18.25								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.53	21.53	21.55	23	0						
10	QPSK	1	24	21.53	21.75	21.75								
10	QPSK	6	0	21.73	21.53	21.55								
10	QPSK	28	0	21.73	21.53	21.55								
10	QPSK	28	12	21.74	21.42	21.37	22	1						
10	QPSK	28	12	21.74	21.48	21.48								
10	QPSK	50	0	21.49	21.38	21.48								
10	QPSK	1	24	21.54	21.20	21.65								
10	QPSK	1	24	21.51	21.25	21.47	22	1						
10	QPSK	1	48	21.44	21.28	21.14								
10	QPSK	6	0	20.83	20.38	20.35								
10	QPSK	28	12	20.48	20.33	20.43								
10	QPSK	0	20.59	20.32	20.28	21	2							
10	QPSK	0	20.41	20.26	20.21									
10	QPSK	1	24	21.31	21.31	21.28								
10	QPSK	1	48	21.48	21.73	21.87								
10	QPSK	1	24	21.41	21.26	21.25	21	2						
10	QPSK	28	12	20.54	20.40	20.37								
10	QPSK	28	12	20.54	20.19	20.23								
10	QPSK	50	0	20.70	20.39	20.38								
10	QPSK	1	24	21.39	21.39	21.38	22	1						
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	21	2						
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	20							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	19							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	18							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	17							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	16							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	15							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	14							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	13							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	12							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	11							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	10							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	9							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	8							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	7							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	6							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	5							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	4							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	3							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	2							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38	1							
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								
10	QPSK	1	24	21.39	21.39	21.38								

Reduced Power Mode for WWAN

	Ant0 DS12 Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				128	189	251	
GSM850					824.2	836.4	848.8	
TX Channel	128	189	251					
Frequency (MHz)	824.2	836.4	848.8					
GSM 1 Tx slot	32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot	32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots	29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.00
GPRS 3 Tx slots	28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots	26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot	25.70	25.84	25.69	27.00	16.70	16.84	16.69	18.00
EDGE 2 Tx slots	23.82	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots	22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots	20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

	Ant0 DS12 Power			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	Burst Average Power (dBm)				512	661	810	
GSM1900					1850.2	1880	1909.8	
TX Channel	512	661	810					
Frequency (MHz)	1850.2	1880	1909.8					
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.82	26.35	26.66	27.50	20.82	20.35	20.66	21.50
GPRS 3 Tx slots	25.33	25.35	25.19	26.50	21.07	21.09	20.93	22.24
GPRS 4 Tx slots	23.19	23.24	22.78	24.00	20.19	20.24	19.78	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Band	Ant0 DS12 Power			Tune-up Limit (dBm)	Ant0 DS12 Power			Tune-up Limit (dBm)	Ant0 DS12 Power			Tune-up Limit (dBm)
	WCDMA I				WCDMA IV				WCDMA V			
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9800	9938		1537	1638	1738		4357	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	24.15	24.19	24.16	25.00	24.10	24.21	24.13	25.00	23.74	23.94	25.00
3GPP Rel 99	RMC 12.2Kbps	24.16	24.24	24.18	25.00	24.12	24.23	24.14	25.00	23.76	23.99	25.00
3GPP Rel 6	HSDPA Subtest-1	23.22	23.19	23.34	24.00	23.40	23.51	23.31	24.00	23.02	23.06	24.00
3GPP Rel 6	HSDPA Subtest-2	23.19	23.23	23.34	24.00	23.35	23.43	23.29	24.00	22.62	23.04	24.00
3GPP Rel 6	HSDPA Subtest-3	22.68	22.74	22.84	23.50	22.84	22.95	22.82	23.50	22.50	22.51	23.50
3GPP Rel 6	HSDPA Subtest-4	22.67	22.71	22.43	23.50	22.86	23.00	22.80	23.50	22.61	22.55	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.91	22.98	23.06	24.00	23.07	23.17	23.00	24.00	22.78	22.85	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.90	23.03	23.03	24.00	23.14	23.11	23.05	24.00	22.38	22.76	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.38	22.52	22.61	23.50	22.51	22.70	22.50	23.50	22.26	22.27	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.41	22.38	22.11	23.50	22.60	22.68	22.51	23.50	22.29	22.21	23.50
3GPP Rel 6	HSUPA Subtest-1	22.37	22.44	22.17	24.00	22.37	22.50	22.15	24.00	22.38	22.37	24.00
3GPP Rel 6	HSUPA Subtest-2	21.19	21.20	21.31	22.00	21.34	21.40	21.32	22.00	21.00	21.01	22.00
3GPP Rel 6	HSUPA Subtest-3	22.21	22.13	22.34	23.00	22.36	22.44	22.26	23.00	22.00	21.98	23.00
3GPP Rel 6	HSUPA Subtest-4	21.23	21.19	21.30	22.00	21.30	21.42	21.28	22.00	20.99	20.98	22.00
3GPP Rel 6	HSUPA Subtest-5	23.20	23.20	23.30	24.00	23.12	23.40	23.30	24.00	23.00	23.10	24.00



Band 12 (700MHz Low Band) Ant0 DS2E Power Part 27(Only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Peak Ch / Freq.	Turn-up time (sec)	MPE (dB)	
Channel									
704 707.5 711									
10	QPSK	1	0	22.68	22.93	22.76			
10	QPSK	1	25	22.68	22.91	22.81			
10	QPSK	1	49	22.85	22.79	22.84	24	0	
10	QPSK	25	0	22.89	22.92	22.90			
10	QPSK	25	12	22.82	22.92	22.83			
10	QPSK	25	25	22.90	22.88	22.89	24	0	
10	QPSK	50	0	22.79	22.81	22.76			
10	16QAM	50	0	22.66	22.83	22.79			
10	16QAM	1	25	22.78	22.88	22.72	24	0	
10	16QAM	1	49	22.82	22.77	22.79			
10	16QAM	25	0	22.83	22.79	22.89			
10	16QAM	25	12	22.87	22.83	22.81	24	0	
10	16QAM	25	25	22.86	22.82	22.82			
10	16QAM	50	0	22.76	22.85	22.78			
10	64QAM	1	0	22.67	22.92	22.69			
10	64QAM	1	25	22.84	22.91	22.72	24	0	
10	64QAM	1	49	22.77	22.77	22.79			
10	64QAM	25	0	22.86	22.72	22.87			
10	64QAM	25	12	22.80	22.86	22.79	24	0	
10	64QAM	25	25	22.81	22.79	22.82			
10	64QAM	50	0	22.71	22.85	22.68			
10	256QAM	1	0	19.17	19.41	19.14			
10	256QAM	1	25	19.58	19.25	19.22	20	4	
10	256QAM	1	49	19.31	19.28	19.35			
10	256QAM	25	0	19.52	19.38	19.48			
10	256QAM	25	12	19.37	19.50	19.40	20	4	
10	256QAM	25	25	19.31	19.17	19.20			
10	256QAM	50	0	19.22	19.02	19.10			
Channel									
7015 7055 713.5									
5	QPSK	1	0	22.68	22.83	22.74			
5	QPSK	1	12	22.82	22.84	22.79	24	0	
5	QPSK	1	24	22.87	22.70	22.87			
5	QPSK	12	0	22.87	22.70	22.87			
5	QPSK	12	7	22.81	22.86	22.77	24	0	
5	QPSK	12	13	22.81	22.83	22.78			
5	16QAM	25	0	22.76	22.89	22.74			
5	16QAM	1	0	22.60	22.74	22.67	24	0	
5	16QAM	1	12	22.68	22.84	22.68			
5	16QAM	12	0	22.76	22.85	22.76			
5	16QAM	12	7	22.81	22.83	22.74	24	0	
5	16QAM	12	13	22.80	22.72	22.74			
5	16QAM	25	0	22.66	22.81	22.66			
5	64QAM	1	0	22.58	22.88	22.63	24	0	
5	64QAM	1	24	22.78	22.79	22.73			
5	64QAM	1	24	22.73	22.85	22.74			
5	64QAM	12	0	22.68	22.72	22.79	24	0	
5	64QAM	12	13	22.69	22.72	22.74			
5	64QAM	25	0	22.67	22.77	22.67			
5	256QAM	1	0	19.21	19.36	19.25			
5	256QAM	1	12	19.52	19.37	19.27	20	4	
5	256QAM	1	24	19.23	19.04	19.15			
5	256QAM	12	0	19.36	19.54	19.18			
5	256QAM	12	13	19.37	19.44	19.33	20	4	
5	256QAM	17	0	19.17	19.28	19.15			
Channel									
23055 23059 23155									
3	QPSK	1	0	22.60	22.84	22.72			
3	QPSK	1	8	22.89	22.86	22.77	24	0	
3	QPSK	1	14	22.78	22.77	22.82			
3	QPSK	8	0	22.82	22.78	22.80			
3	QPSK	8	7	22.82	22.80	22.79	24	0	
3	QPSK	8	14	22.84	22.79	22.86			
3	16QAM	1	0	22.71	22.80	22.70			
3	16QAM	1	0	22.64	22.81	22.72	24	0	
3	16QAM	1	8	22.75	22.78	22.67			
3	16QAM	8	7	22.86	22.81	22.76	24	0	
3	16QAM	8	4	22.77	22.78	22.82			
3	16QAM	15	0	22.74	22.78	22.67			
3	64QAM	1	0	22.59	22.91	22.62	24	0	
3	64QAM	1	8	22.74	22.78	22.72			
3	64QAM	1	14	22.73	22.75	22.80			
3	64QAM	8	0	22.77	22.63	22.86			
3	64QAM	8	4	22.72	22.67	22.74	24	0	
3	64QAM	8	7	22.75	22.74	22.80			
3	64QAM	15	0	22.66	22.77	22.58			
3	256QAM	1	0	19.18	19.08	19.21			
3	256QAM	1	8	19.81	19.99	19.17	20	4	
3	256QAM	1	14	19.05	19.17	19.00			
3	256QAM	8	0	19.26	19.35	19.27			
3	256QAM	8	4	19.54	19.44	19.43	20	4	
3	256QAM	8	7	19.52	19.13	19.26			
3	256QAM	15	0	19.20	19.70	19.09			
Channel									
23017 23059 23173									
1.4	QPSK	1	0	22.63	22.84	22.70			
1.4	QPSK	1	3	22.76	22.81	22.70	24	0	
1.4	QPSK	1	5	22.72	22.74	22.77			
1.4	QPSK	3	0	22.82	22.68	22.80			
1.4	QPSK	3	1	22.77	22.82	22.74			
1.4	QPSK	3	3	22.80	22.77	22.77	24	0	
1.4	QPSK	6	0	22.76	22.68	22.66			
1.4	16QAM	1	0	22.62	22.75	22.69	24	0	
1.4	16QAM	1	3	22.76	22.78	22.61			
1.4	16QAM	3	0	22.71	22.70	22.70			
1.4	16QAM	3	0	22.80	22.68	22.85			
1.4	16QAM	3	1	22.83	22.72	22.69	24	0	
1.4	16QAM	6	0	22.66	22.74	22.71			
1.4	16QAM	6	0	22.68	22.81	22.64	24	0	
1.4	64QAM	1	0	22.60	22.82	22.64			
1.4	64QAM	1	3	22.75	22.60	22.64			
1.4	64QAM	1	5	22.66	22.62	22.78	24	0	
1.4	64QAM	3	0	22.80	22.68	22.82			
1.4	64QAM	3	0	22.72	22.60	22.78			
1.4	64QAM	3	3	22.70	22.67	22.78	24	0	
1.4	64QAM	6	0	22.60	22.78	22.64			
1.4	256QAM	1	0	19.18	19.23	19.06			
1.4	256QAM	1	3	19.97	19.02	19.36	20	4	
1.4	256QAM	1	5	19.03	19.39	19.05			
1.4	256QAM	3	0	19.54	19.30	19.05			
1.4	256QAM	3	1	19.27	19.13	19.25			
1.4	256QAM	6	0	19.14	19.26	19.31	20	4	
1.4	256QAM	6	0	19.43	19.08	19.31			

Band 13(700MHz Band) Ant0 DS2E Power Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Turn-on time (sec)	MPE (dB)	
Channel									
712									
10	QPSK	1	0	22.52			24	0	
10	QPSK	1	25	22.52					
10	QPSK	1	49	22.88					
10	QPSK	25	0	22.93					
10	QPSK	25	12	22.83			24	0	
10	QPSK	25	25	22.91					
10	QPSK	50	0	22.88					
10	16QAM	1	0	22.89			24	0	
10	16QAM	1	25	22.09					
10	16QAM	1	49	22.07					
10	16QAM	25	0	22.19					
10	16QAM	25	12	22.38			23	1	
10	16QAM	25	25	22.36					
10	16QAM	50	0	22.3					
10	64QAM	1	0	22.04					
10	64QAM	1	25	22.13			24	0	
10	64QAM	1	49	22.01					
10	64QAM	25	0	22.22					
10	64QAM	25	12	22.34			23	1	
10	64QAM	25	25	22.32					
10	64QAM	50	0	22.31					
10	256QAM	1	0	19.62					
10	256QAM	1	25	19.78			20	4	
10	256QAM	1	49	19.64					
10	256QAM	25	0	19.84					
10	256QAM	25	12	19.79			20	4	
10	256QAM	25	25	19.73					
10	256QAM	50	0	19.65					
Channel									
23230 23255 23280									
5	QPSK	1	0	22.77	22.71	22.76			
5	QPSK	1	12	22.75	22.81	22.87	24	0	
5	QPSK	1	24	22.70	22.83	22.81			
5	QPSK	12	0	22.69	22.69	22.70			
5	QPSK	12	7	22.83	22.74	22.81	24	0	
5	QPSK	12	13	22.78	22.83	22.68			
5	QPSK	25	0	22.78	22.73	22.69			
5	16QAM	1	0	22.12	22.14	22.30			
5	16QAM	1	12	23.21	23.07	23.20	24	0	
5	16QAM	1	24	23.21	23.07	23.19			
5	16QAM	12	0	22.21	22.17	22.48			
5	16QAM	12	7	22.14	22.32	22.38	23	1	
5	16QAM	12	13	22.14	22.40	22.24			
5	16QAM	25	0	22.17	22.29	22.27			
5	64QAM	1	0	22.08	22.08	22.07	24	0	
5	64QAM	1	12	23.03	22.99	23.01			
5	64QAM	1	24	22.91	23.02	22.97			
5	64QAM	12	0	22.29	22.26	22.41			
5	64QAM	12	7	22.37	22.30	22.37	23	1	
5	64QAM	12	13	22.38	22.38	22.19			
5	64QAM	25	0	22.19	22.21	22.26			
5	256QAM	1	0	19.17	19.13	19.36			
5	256QAM	1	12	19.19	19.31	19.24	20	4	
5	256QAM	1	24	19.20	19.28	19.31			
5	256QAM	12	0	19.17	19.14	19.26			
5	256QAM	12	7	19.28	19.24	19.37	20	4	
5	256QAM	12	13	19.29	19.17	19.38			
5	256QAM	25	0	19.33	19.27	19.19			



Band 26 for FCC Ant0 DS12 Power (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up level (dB)	MFR (dB)		
Channel										
811.5 811.5 811.5										
15	QPSK	1	0	22.61	22.61	22.62			24	0
15	QPSK	1	37	22.58	22.52	22.60				
15	QPSK	1	74	22.45	22.59	22.58				
15	QPSK	36	0	22.47	22.57	22.48				
15	QPSK	36	20	22.54	22.49	22.64			24	0
15	QPSK	36	39	22.42	22.56	22.55				
15	QPSK	75	0	22.64	22.57	22.65				
15	HQDM	1	0	22.48	22.56	22.49				
15	HQDM	1	37	22.53	22.47	22.55			24	0
15	HQDM	1	74	22.59	22.55	22.52				
15	HQDM	36	0	22.62	22.52	22.45				
15	HQDM	36	20	22.51	22.43	22.52				
15	HQDM	36	39	22.59	22.53	22.49			24	0
15	HQDM	75	0	22.61	22.55	22.49				
15	HQDM	75	0	22.48	22.53	22.47				
15	HQDM	1	0	22.47	22.55	22.47				
15	HQDM	1	37	22.56	22.49	22.51			24	0
15	HQDM	1	74	22.59	22.57	22.54				
15	HQDM	36	0	22.45	22.54	22.45				
15	HQDM	36	20	22.51	22.43	22.56				
15	HQDM	36	39	22.58	22.52	22.49			24	0
15	HQDM	75	0	22.48	22.53	22.56				
15	HQDM	75	0	19.18	19.25	19.17				
15	SSQDM	1	37	19.15	19.07	19.22			20	4
15	SSQDM	1	74	18.82	18.88	18.94				
15	SSQDM	36	0	19.03	19.11	19.05				
15	SSQDM	36	20	19.14	19.12	19.15				
15	SSQDM	36	39	18.77	18.73	18.80			20	4
15	SSQDM	75	0	19.11	19.15	19.05				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69			20	4
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM	75	0	20.70	20.65	20.69				
15	SSQDM									



Band 38(only on channel required) Ant0 DS12 Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	23.23	23.49	23.26			24	0
20	QPSK	1	49	23.42	23.42	23.30				
20	QPSK	1	99	23.36	23.35	23.30				
20	QPSK	50	0	23.17	23.43	23.22				
20	QPSK	50	24	23.26	23.37	23.26			24	0
20	QPSK	50	50	23.34	23.32	23.27				
20	QPSK	100	0	23.27	23.39	23.34				
20	16QAM	1	0	23.17	23.46	23.21				
20	16QAM	1	49	23.37	23.37	23.24			24	0
20	16QAM	1	99	23.33	23.31	23.25				
20	16QAM	50	0	23.12	23.40	23.16				
20	16QAM	50	24	23.34	23.37	23.23				
20	16QAM	50	50	23.31	23.28	23.21			24	0
20	16QAM	100	0	23.23	23.23	23.30				
20	64QAM	1	0	23.14	23.43	23.17				
20	64QAM	1	49	23.32	23.33	23.19			24	0
20	64QAM	1	99	23.29	23.27	23.20				
20	64QAM	50	0	23.10	23.36	23.12				
20	64QAM	50	24	23.32	23.35	23.18				
20	64QAM	50	50	23.25	23.24	23.15			24	0
20	64QAM	100	0	23.20	23.20	23.28				
20	256QAM	1	0	21.25	21.39	21.32				
20	256QAM	1	49	21.22	20.96	21.24			22	2
20	256QAM	1	99	21.00	21.23	21.19				
20	256QAM	50	0	21.02	21.28	21.28				
20	256QAM	50	24	21.43	21.49	21.34				
20	256QAM	50	50	21.48	21.39	21.18			22	2
20	256QAM	100	0	21.20	20.91	21.28				
Channel				37750	38000	38250				
Frequency (MHz)				2577.5	2595	2612.5	Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	23.19	23.47	23.24			24	0
15	QPSK	1	37	23.38	23.39	23.26				
15	QPSK	1	74	23.33	23.32	23.27				
15	QPSK	36	0	23.14	23.39	23.19				
15	QPSK	36	20	23.35	23.38	23.20			24	0
15	QPSK	36	39	23.31	23.28	23.24				
15	QPSK	75	0	23.21	23.24	23.29				
15	16QAM	1	0	23.14	23.36	23.13				
15	16QAM	1	37	23.35	23.33	23.20			24	0
15	16QAM	1	74	23.30	23.27	23.22				
15	16QAM	36	0	23.07	23.38	23.14				
15	16QAM	36	20	23.31	23.31	23.19				
15	16QAM	36	39	23.27	23.24	23.16			24	0
15	16QAM	75	0	23.18	23.19	23.25				
15	16QAM	1	0	23.11	23.39	23.13				
15	64QAM	1	37	23.30	23.29	23.14			24	0
15	64QAM	1	74	23.27	23.23	23.17				
15	64QAM	36	0	23.07	23.32	23.08				
15	64QAM	36	20	23.24	23.25	23.23				
15	64QAM	36	39	23.20	23.19	23.10			24	0
15	64QAM	75	0	23.14	23.18	23.22				
15	256QAM	1	0	21.31	21.07	21.19				
15	256QAM	1	37	21.16	21.10	21.16			22	2
15	256QAM	1	74	21.01	21.17	21.09				
15	256QAM	36	0	21.08	21.43	21.35				
15	256QAM	36	20	21.43	21.53	21.30				
15	256QAM	36	39	21.39	21.37	21.05			22	2
15	256QAM	75	0	21.27	20.93	21.19				
Channel				2675	2695	2715	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2675	2695	2615	Turn-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	23.16	23.42	23.10			24	0
10	QPSK	1	25	23.35	23.33	23.23				
10	QPSK	1	49	23.27	23.29	23.23				
10	QPSK	25	0	23.12	23.36	23.13				
10	QPSK	25	12	23.33	23.35	23.17			24	0
10	QPSK	25	25	23.27	23.23	23.20				
10	QPSK	50	0	23.18	23.20	23.23				
10	16QAM	1	0	23.10	23.34	23.14			24	0
10	16QAM	1	25	23.29	23.31	23.15				
10	16QAM	1	49	23.24	23.21	23.20				
10	16QAM	25	0	23.01	23.34	23.09				
10	16QAM	25	12	23.27	23.26	23.16			24	0
10	16QAM	25	25	23.24	23.21	23.12				
10	16QAM	50	0	23.12	23.16	23.20				
10	64QAM	1	0	23.07	23.37	23.08			24	0
10	64QAM	1	25	23.27	23.26	23.11				
10	64QAM	1	49	23.24	23.17	23.13				
10	64QAM	25	0	23.01	23.28	23.04				
10	64QAM	25	12	23.22	23.19	23.09			24	0
10	64QAM	25	25	23.18	23.16	23.07				
10	64QAM	50	0	23.10	23.12	23.19				
10	256QAM	1	0	21.21	20.77	20.97				
10	256QAM	1	25	20.91	21.12	21.04			22	2
10	256QAM	1	49	21.17	21.16	20.84				
10	256QAM	25	0	21.21	21.34	21.12				
10	256QAM	25	12	21.30	21.48	21.32				
10	256QAM	25	25	21.42	21.57	21.18			22	2
10	256QAM	50	0	20.91	20.96	21.03				
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2712.5	2695	2617.5	Turn-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	23.14	23.39	23.15			24	0
5	QPSK	1	12	23.29	23.28	23.19				
5	QPSK	1	24	23.24	23.26	23.17				
5	QPSK	12	0	23.09	23.32	23.10				
5	QPSK	12	7	23.29	23.32	23.13			24	0
5	QPSK	12	13	23.24	23.19	23.14				
5	QPSK	25	0	23.15	23.15	23.19				
5	16QAM	1	0	23.05	23.29	23.12			24	0
5	16QAM	1	12	23.24	23.25	23.13				
5	16QAM	1	24	23.19	23.18	23.15				
5	16QAM	12	0	22.97	23.29	23.06				
5	16QAM	12	7	23.22	23.24	23.14			24	0
5	16QAM	12	13	23.20	23.18	23.09				
5	16QAM	25	0	23.07	23.14	23.15				
5	64QAM	1	0	23.02	23.32	23.04			24	0
5	64QAM	1	12	23.23	23.24	23.07				
5	64QAM	1	24	23.18	23.14	23.10				
5	64QAM	12	0	22.98	23.24	23.00				
5	64QAM	12	7	23.19	23.14	23.05			24	0
5	64QAM	12	13	23.14	23.12	23.06				
5	64QAM	25	0	23.05	23.07	23.14				
5	256QAM	1	0	20.99	21.37	21.02				
5	256QAM	1	12	21.21	20.91	21.17			22	2
5	256QAM	1	24	21.01	20.97	20.86				
5	256QAM	12	0	21.09	21.02	21.04				
5	256QAM	12	7	21.23	21.42	21.47				
5	256QAM	12	13	21.38	21.18	21.16			22	2
5	256QAM	25	0	20.87	20.94	21.12				

Band 38(only on channel required) PC2 Ant0 DS12 Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	26.24	26.41	26.33			27	0
20	QPSK	1	49	26.38	26.35	26.32				
20	QPSK	1	99	26.33	26.27	26.27				
20	QPSK	50	0	26.17	26.39	26.33				
20	QPSK	50	24	26.31	26.34	26.23			27	0
20	QPSK	50	50	26.30	26.27	26.26				
20	QPSK	100	0	26.34	26.46	26.36				
20	16QAM	1	0	26.19	26.37	26.28				
20	16QAM	1	49	26.32	26.32	26.27			27	0
20	16QAM	1	99	26.29	26.23	26.21				
20	16QAM	50	0	26.21	26.29	26.29				
20	16QAM	50	24	26.37	26.33	26.34			27	0
20	16QAM	50	50	26.25	26.22	26.20				
20	16QAM	100	0	26.30	26.22	26.30				
20	64QAM	1	0	26.20	26.34	26.22			27	0
20	64QAM	1	49	26.27	26.27	26.21				
20	64QAM	1	99	26.26	26.20	26.16				
20	64QAM	50	0	26.28	26.23	26.23			27	0
20	64QAM	50	24	26.33	26.30	26.30				
20	64QAM	50	50	26.22	26.26	26.26				
20	64QAM	100	0	26.27	26.19	26.27				
20	256QAM	1	0	24.84	24.68	24.60			25	2
20	256QAM	1	49	24.55	24.63	24.75				
20	256QAM	1	99	24.35	24.51	24.44				
20	256QAM	50	0	24.79	24.63	24.67				
20	256QAM	50	24	24.40	24.43	24.41			25	2
20	256QAM	50	50	24.34	24.63	24.47				
20	256QAM	100	0	24.00	24.20	24.08				
Channel				37975	38000	38025	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
16	QPSK	1	0	26.21	26.36	26.31			27	0
15	QPSK	1	37	26.33	26.31	26.29				
15	QPSK	1	74	26.29	26.25	26.24				
15	QPSK	36	0	26.32	26.28	26.30				
15	QPSK	36	20	26.34	26.32	26.33			27	0
15	QPSK	36	39	26.24	26.22	26.21				
15	QPSK	75	0	26.33	26.21	26.32				
15	16QAM	1	0	26.13	26.33	26.23				
15	16QAM	1	37	26.26	26.30	26.22			27	0
15	16QAM	1	74	26.24	26.20	26.18				
15	16QAM	36	0	26.25	26.26	26.26				
15	16QAM	36	20	26.33	26.30	26.29			27	0
15	16QAM	36	39	26.19	26.17	26.15				
15	16QAM	75	0	26.27	26.16	26.25				
15	64QAM	1	0	26.10	26.31	26.19			27	0
15	64QAM	1	37	26.21	26.21	26.15				
15	64QAM	1	74	26.23	26.18	26.12				
15	64QAM	36	0	26.28	26.26	26.26			27	0
15	64QAM	36	20	26.30	26.28	26.24				
15	64QAM	36	39	26.19	26.17	26.12				
15	64QAM	75	0	26.24	26.13	26.23				
15	256QAM	1	0	24.70	24.77	24.62			25	2
15	256QAM	1	37	24.47	24.70	24.67				
15	256QAM	1	74	24.29	24.33	24.52				
15	256QAM	36	0	24.57	24.59	24.68				
15	256QAM	36	20	24.37	24.29	24.65			25	2
15	256QAM	36	39	24.31	24.46	24.32				
15	256QAM	75	0	24.20	24.40	24.32				
Channel				37975	38000	38025	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	26.15	26.36	26.27			27	0
10	QPSK	1	49	26.31	26.31	26.27				
10	QPSK	1	99	26.26	26.19	26.21				
10	QPSK	25	0	26.28	26.24	26.25				
10	QPSK	25	12	26.30	26.29	26.28			27	0
10	QPSK	25	25	26.22	26.16	26.20				
10	QPSK	50	0	26.27	26.17	26.30				
10	16QAM	1	0	26.10	26.31	26.21				
10	16QAM	1	25	26.22	26.24	26.17			27	0
10	16QAM	1	49	26.20	26.18	26.13				
10	16QAM	25	0	26.20	26.23	26.24				
10	16QAM	25	12	26.19	26.27	26.26			27	0
10	16QAM	25	25	26.15	26.15	26.08				
10	16QAM	50	0	26.22	26.15	26.22				
10	64QAM	1	0	26.07	26.26	26.16			27	0
10	64QAM	1	25	26.18	26.18	26.09				
10	64QAM	1	49	26.16	26.20	26.12				
10	64QAM	25	0	26.21	26.12	26.12			27	0
10	64QAM	25	12	26.26	26.25	26.20				
10	64QAM	25	25	26.16	26.14	26.09				
10	64QAM	50	0	26.17	26.09	26.05			25	2
10	256QAM	1	0	24.67	24.39	24.51				
10	256QAM	1	25	24.63	24.51	24.65				
10	256QAM	1	49	24.62	24.43	24.61				
10	256QAM	25	0	24.71	24.41	24.57			25	2
10	256QAM	25	12	24.43	24.35	24.48				
10	256QAM	25	25	24.36	24.32	24.38				
10	256QAM	50	0	24.34	24.52	24.26				
Channel				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2727.5	2595	2617.5				
5	QPSK	1	0	26.13	26.29	26.22			27	0
5	QPSK	1	24	26.26	26.22	26.22				
5	QPSK	12	0	26.22	26.19	26.19				
5	QPSK	12	13	26.28	26.26	26.26				
5	QPSK	12	13	26.19	26.11	26.15			27	0
5	QPSK	25	0	26.23	26.12	26.28				
5	16QAM	1	0	26.06	26.26	26.13				
5	16QAM	1	24	26.15	26.21	26.13				
5	16QAM	1	24	26.16	26.14	26.09			27	0
5	16QAM	12	0	26.14	26.18	26.20				
5	16QAM	12	7	26.24	26.21	26.22				
5	16QAM	12	13	26.10	26.10	26.05			27	0
5	64QAM	1	0	26.16	26.12	26.17				
5	64QAM	1	0	26.03	26.24	26.11				
5	64QAM	1	24	26.12	26.12	26.03			27	0
5	64QAM	12	0	26.16	26.07	26.07				
5	64QAM	12	7	26.21	26.20	26.17				
5	256QAM	1	0	26.12	26.10	26.08			27	0
5	256QAM	1	12	24.36	24.56	24.67				
5	256QAM	1	24	24.48	24.41	24.42				
5	256QAM	12	0	24.59	24.60	24.54			25	2
5	256QAM	12	7	24.43	24.45	24.41				
5	256QAM	12	13	24.32	24.44	24.32				
5	256QAM	25	0	24.18	24.32	24.28				

Ant1 DS12 Power								
Burst-Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
GSM850	128	189	251		129	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	31.81	31.79	31.70	32.50	22.81	22.79	22.70	23.50
GPRS 1 Tx slot	31.95	31.92	31.78	32.50	22.95	22.92	22.78	23.50
GPRS 2 Tx slots	26.17	26.11	26.04	29.50	22.17	22.11	22.04	23.50
GPRS 3 Tx slots	26.65	26.57	26.46	27.70	22.39	22.31	22.20	23.44
GPRS 4 Tx slots	25.11	25.29	25.19	26.50	22.11	22.29	22.19	23.50
EDGE 1 Tx slot	25.45	25.39	25.44	26.00	16.45	16.39	16.44	17.00
EDGE 2 Tx slots	23.75	23.82	23.77	25.00	17.75	17.82	17.77	19.00
EDGE 3 Tx slots	22.52	22.54	22.48	24.00	18.26	18.26	18.22	19.74
EDGE 4 Tx slots	20.48	20.57	20.48	22.00	17.48	17.57	17.48	19.00

Ant1 DS12 Power				
WCDMA V				Tune-up Limit (dBm)
Band	4132	4182	4233	
TX Channel	4357	4407	4458	
Rx Channel	4357	4407	4458	
Frequency (MHz)	824.2	836.4	848.8	
3GPP Rel 99	23.66	23.71	23.77	24.50
3GPP Rel 99	23.67	23.70	23.74	24.50
3GPP Rel 6	22.71	22.79	22.73	24.50
3GPP Rel 6	22.73	22.85	22.80	24.50
3GPP Rel 6	22.19	22.33	22.32	24.00
3GPP Rel 6	22.20	22.30	22.31	24.00
3GPP Rel 8	22.62	22.57	22.53	24.50
3GPP Rel 8	22.62	22.70	22.60	24.50
3GPP Rel 8	22.09	22.15	22.18	24.00
3GPP Rel 8	22.05	22.11	22.02	24.00
3GPP Rel 6	22.68	22.79	22.74	24.50
3GPP Rel 6	20.70	20.75	20.72	22.50
3GPP Rel 6	21.71	21.73	21.77	23.50
3GPP Rel 6	20.63	20.77	20.75	22.50
3GPP Rel 6	22.70	22.80	22.69	24.50



Band 2 (1900MHz Band) Ant1 DS12 Power									
Part 24E									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up time (sec)	MFR (dB)	
Channel									
1800 1800 1800									
20	QPSK	1	0	17.01	17.11	17.03			
20	QPSK	1	49	17.07	17.09	17.02	18.1	0	
20	QPSK	1	99	17.05	17.06	17.07			
20	QPSK	50	0	16.99	17.00	17.00			
20	QPSK	50	24	17.04	17.04	17.04	18.1	0	
20	QPSK	50	50	16.99	16.97	17.02			
20	QPSK	100	0	17.06	17.10	16.99			
20	16QAM	1	0	16.95	16.96	16.96			
20	16QAM	1	49	17.03	17.06	17.04	18.1	0	
20	16QAM	1	99	16.97	16.99	17.00			
20	16QAM	50	24	17.02	17.03	17.02	18.1	0	
20	16QAM	50	50	16.99	16.94	17.06			
20	16QAM	100	0	17.03	17.00	17.00			
20	64QAM	1	0	17.01	16.98	17.06	18.1	0	
20	64QAM	1	49	17.03	17.06	17.04			
20	64QAM	1	99	17.07	17.09	17.06			
20	64QAM	50	0	16.97	16.96	16.99	18.1	0	
20	64QAM	50	24	17.04	17.00	16.96			
20	64QAM	50	50	16.96	16.91	17.04	18.1	0	
20	64QAM	100	0	16.99	16.98	16.97			
20	256QAM	1	49	16.98	16.86	17.04	18.1	0	
20	256QAM	1	99	17.03	16.76	16.94			
20	256QAM	50	0	16.96	16.96	16.96			
20	256QAM	50	24	16.91	16.96	16.93	18.1	0	
20	256QAM	50	50	16.88	16.84	16.89			
20	256QAM	100	0	16.95	16.85	16.91			
Channel									
1807.5 1800 1912.5									
15	QPSK	1	0	17.02	17.06	17.05	Turn-up (sec)	MFR (dB)	
15	QPSK	1	49	17.08	17.08	17.08	18.1	0	
15	QPSK	1	74	16.99	17.05	17.04			
15	QPSK	36	0	16.94	16.99	16.93			
15	QPSK	36	39	16.99	17.00	16.97	18.1	0	
15	QPSK	36	99	16.86	16.90	17.03			
15	16QAM	1	0	16.99	17.03	16.99			
15	16QAM	1	49	16.99	16.76	16.92	18.1	0	
15	16QAM	1	37	16.97	16.97	16.99			
15	16QAM	36	0	16.83	16.88	16.91			
15	16QAM	36	20	16.97	16.89	16.91	18.1	0	
15	16QAM	36	99	16.86	16.93	16.91			
15	64QAM	1	0	16.98	16.87	16.96			
15	64QAM	1	49	16.98	17.00	16.98	18.1	0	
15	64QAM	1	74	16.98	16.92	16.92			
15	64QAM	36	0	16.86	16.90	16.89			
15	64QAM	36	20	16.93	16.90	16.90	18.1	0	
15	64QAM	36	99	16.93	16.92	16.90			
15	64QAM	75	0	16.88	16.86	16.89			
15	256QAM	1	49	16.93	16.92	16.91	18.1	0	
15	256QAM	1	74	17.01	16.68	16.82			
15	256QAM	1	37	16.91	16.76	16.92			
15	256QAM	36	0	16.72	16.76	16.78	18.1	0	
15	256QAM	36	20	16.81	16.82	16.75			
15	256QAM	36	99	16.85	16.72	16.87	18.1	0	
15	256QAM	75	0	16.86	16.81	16.85			
Channel									
1805 1800 1916									
10	QPSK	1	0	17.06	17.06	17.06	Turn-up (sec)	MFR (dB)	
10	QPSK	1	25	17.09	17.07	17.10	18.1	0	
10	QPSK	1	49	16.99	17.10	16.99			
10	QPSK	1	74	16.92	17.04	16.92			
10	QPSK	25	0	16.90	17.01	16.94	18.1	0	
10	QPSK	25	25	16.85	16.84	17.03			
10	QPSK	25	49	16.97	16.94	16.94			
10	16QAM	1	0	16.91	16.70	16.89	18.1	0	
10	16QAM	1	25	16.99	16.86	16.97			
10	16QAM	1	49	16.96	16.79	16.96	18.1	0	
10	16QAM	25	0	16.94	16.84	16.91			
10	16QAM	25	12	17.00	16.91	16.90	18.1	0	
10	16QAM	25	25	16.86	16.90	16.84			
10	16QAM	50	0	16.97	16.93	16.84			
10	64QAM	1	0	16.96	16.94	17.04	18.1	0	
10	64QAM	1	25	16.85	16.94	16.93			
10	64QAM	1	49	17.01	16.88	16.92			
10	64QAM	25	0	16.86	16.87	16.86	18.1	0	
10	64QAM	25	12	16.95	16.91	16.84			
10	64QAM	25	25	16.90	16.87	16.96			
10	64QAM	50	0	16.90	16.87	16.91			
10	256QAM	1	25	16.84	16.72	16.91	18.1	0	
10	256QAM	1	25	16.72	16.87	16.87			
10	256QAM	1	49	16.92	16.86	16.90	18.1	0	
10	256QAM	1	74	16.90	16.86	16.86			
10	256QAM	25	0	16.86	16.89	16.79			
10	256QAM	25	25	16.73	16.74	16.80	18.1	0	
10	256QAM	50	0	16.86	16.81	16.85			
Channel									
1802.5 1800 1917.5									
5	QPSK	1	0	17.06	17.06	17.06	Turn-up (sec)	MFR (dB)	
5	QPSK	1	12	17.04	17.07	17.06	18.1	0	
5	QPSK	1	24	17.04	17.07	17.05			
5	QPSK	12	0	16.95	16.97	16.94			
5	QPSK	12	7	16.90	16.91	16.93	18.1	0	
5	QPSK	12	13	16.86	16.91	16.89			
5	QPSK	12	25	17.02	16.98	16.91			
5	16QAM	1	0	16.90	16.83	16.96	18.1	0	
5	16QAM	1	12	16.97	16.95	16.93			
5	16QAM	1	24	16.94	16.68	16.95	18.1	0	
5	16QAM	12	0	16.94	16.88	16.95			
5	16QAM	12	7	16.94	16.90	16.96	18.1	0	
5	16QAM	12	13	16.86	16.88	16.95			
5	64QAM	1	0	16.93	16.93	16.97	18.1	0	
5	64QAM	1	12	17.01	17.02	16.99			
5	64QAM	1	24	16.83	16.85	16.93			
5	64QAM	12	0	16.87	16.85	16.94	18.1	0	
5	64QAM	12	7	16.98	16.95	16.96			
5	64QAM	12	13	16.85	16.79	17.01	18.1	0	
5	64QAM	25	0	16.90	16.93	16.86			
5	256QAM	1	0	16.87	16.77	16.88			
5	256QAM	1	12	16.90	16.89	16.92	18.1	0	
5	256QAM	1	24	17.00	16.94	16.79			
5	256QAM	12	0	16.78	16.72	16.75	18.1	0	
5	256QAM	12	7	16.93	16.89	16.71			
5	256QAM	12	13	16.83	16.79	16.95			
5	256QAM	25	0	16.85	16.76	16.89	18.1	0	
Channel									
1801.5 1800 1916.5									
3	QPSK	1	0	17.04	17.00	16.95	Turn-up (sec)	MFR (dB)	
3	QPSK	1	8	17.02	17.00	17.06	18.1	0	
3	QPSK	1	14	17.09	17.10	17.02			
3	QPSK	8	4	16.90	16.96	16.86	18.1	0	
3	QPSK	8	7	16.89	16.95	16.90			
3	QPSK	16	0	16.97	16.97	16.95			
3	16QAM	1	0	16.84	16.77	16.87	18.1	0	
3	16QAM	1	8	16.98	16.95	16.98			
3	16QAM	1	14	16.81	16.83	16.76	18.1	0	
3	16QAM	8	0	16.89	16.90	16.95			
3	16QAM	8	4	16.93	16.95	16.92	18.1	0	
3	16QAM	8	7	16.90	16.94	16.89			
3	64QAM	1	0	16.93	17.01	16.96	18.1	0	
3	64QAM	1	14	16.98	16.80	16.94			
3	64QAM	8	0	16.99	16.91	16.95			
3	64QAM	8	4	16.92	16.95	16.92	18.1	0	
3	64QAM	8	7	16.89	16.94	16.89			
3	256QAM	1	0	16.93	17.01	16.96	18.1	0	
3	256QAM	1	14	16.98	16.80	16.94			
3	256QAM	8	0	16.99	16.91	16.95			
3	256QAM	8	4	16.92	16.95	16.92	18.1	0	
3	256QAM	8	7	16.89	16.94	16.89			
3	256QAM	16	0	16.87	16.77	16.82			
Channel									
1800.7 1800 1916.3									
1.4	QPSK	1	0	17.00	17.08	17.07	Turn-up (sec)	MFR (dB)	
1.4	QPSK	1	3	17.05	16.94	17.09	18.1	0	
1.4	QPSK	1	3	16.97	17.09	17.03			
1.4	QPSK	3	0	16.85	17.05	16.88	18.1	0	
1.4	QPSK	3	1	17.00	16.94	16.96			
1.4	QPSK	3	3	16.93	16.92	17.00	18.1	0	
1.4	QPSK	6	0	16.97	16.98	16.98			
1.4	16QAM	1	0	16.92	16.93	16.93			
1.4	16QAM	1	3	16.98	16.94	16.93	18.1	0	
1.4	16QAM	1	5	16.84	16.77	16.81			
1.4	16QAM	3	0	16.90	16.92	16.93	18.1	0	
1.4	16QAM	3	1	17.01	16.92	17.00			
1.4	16QAM	3	3	16.86	16.81	16.93	18.1	0	
1.4	16QAM	6	0	16.96	16.92	16.90			
1.4	16QAM	6	1	16.98	16.79	16.92	18.1	0	
1.4	16QAM	6	3	16.92	16.91	16.90			
1.4	16QAM	1	0	16.83	16.80	16.84			
1.4	16QAM	1	3	16.88	16.79	16.86	18.1	0	
1.4	16QAM	1	5	17.00	16.68	16.84			
1.4	16QAM	3	0	16.77	16.76	16.77			
1.4	16QAM	3	1	16.82	16.76	16.79	18.1	0	
1.4	16QAM	3	3	16.83	16.72	16.81			



Band 12 (700MHz Low Band) Ant1 DS12 Power Part 27(Only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Peak Ch / Freq	Turn-up time (sec)	MPE (dB)				
Channel												
704 707.5 711												
10	QPSK	1	0	22.41	22.67	22.67	24	0				
10	QPSK	1	25	22.44	22.68	22.62						
10	QPSK	1	49	22.50	22.58	22.49						
10	QPSK	25	0	22.48	22.65	22.54						
10	QPSK	25	12	22.54	22.63	22.63	24	0				
10	QPSK	25	25	22.60	22.64	22.60						
10	QPSK	50	0	22.62	22.63	22.61						
10	16QAM	1	25	22.46	22.52	22.53						
10	16QAM	1	49	22.42	22.45	22.59	24	0				
10	16QAM	25	0	22.45	22.48	22.59						
10	16QAM	25	12	22.59	22.59	22.52						
10	16QAM	25	25	22.55	22.61	22.54						
10	16QAM	50	0	22.59	22.59	22.59	24	0				
10	16QAM	1	0	22.55	22.62	22.59						
10	16QAM	1	25	22.42	22.47	22.60						
10	16QAM	49	22	22.46	22.53	22.44						
10	16QAM	25	12	21.48	21.50	21.74	23	1				
10	16QAM	25	25	21.50	21.73	21.54						
10	16QAM	50	0	21.51	21.49	21.54						
10	256QAM	1	0	20.39	20.36	20.36						
10	256QAM	1	25	20.27	20.35	20.42	22	2				
10	256QAM	1	49	20.32	20.58	20.24						
10	256QAM	25	0	20.57	20.57	20.57						
10	256QAM	25	12	20.52	20.51	20.55						
10	256QAM	25	25	20.45	20.84	20.52	22	2				
10	256QAM	50	0	20.58	20.57	20.49						
10	256QAM	50	0	20.58	20.57	20.49						
Channel												
23055 23059 23155												
5	QPSK	1	0	22.38	22.81	22.63				24	0	
5	QPSK	1	12	22.40	22.48	22.60						
5	QPSK	1	24	22.44	22.49	22.49						
5	QPSK	12	0	22.44	22.49	22.52						
5	QPSK	12	7	22.59	22.59	22.63	24	0				
5	QPSK	12	13	22.55	22.61	22.55						
5	QPSK	25	0	22.42	22.54	22.58						
5	16QAM	1	0	22.54	22.58	22.51						
5	16QAM	1	12	22.38	22.40	22.55	24	0				
5	16QAM	1	24	22.40	22.53	22.43						
5	16QAM	12	0	22.43	22.42	22.43						
5	16QAM	12	7	22.54	22.54	22.58						
5	16QAM	12	13	22.52	22.59	22.48	24	0				
5	16QAM	25	0	22.53	22.52	22.54						
5	16QAM	1	0	22.52	22.58	22.53						
5	16QAM	1	12	22.37	22.41	22.57						
5	16QAM	1	24	22.42	22.49	22.42	23	1				
5	16QAM	12	0	22.52	22.43	22.57						
5	16QAM	12	13	21.55	21.51	21.44						
5	16QAM	12	25	21.58	21.48	21.81						
5	16QAM	25	0	21.59	21.55	21.51	22	2				
5	256QAM	1	0	20.31	20.20	20.35						
5	256QAM	1	12	20.39	20.26	20.40						
5	256QAM	1	24	20.39	20.40	20.44						
5	256QAM	12	0	20.52	20.48	20.52	22	2				
5	256QAM	12	7	20.52	20.45	20.51						
5	256QAM	12	13	20.52	20.52	20.51						
5	256QAM	12	25	20.52	20.52	20.51						
5	256QAM	50	0	20.59	20.63	20.55						
5	256QAM	50	0	20.59	20.63	20.55						
Channel												
23055 23059 23155												
3	QPSK	1	0	22.30	22.56	22.49	24	0				
3	QPSK	1	8	22.37	22.40	22.57						
3	QPSK	1	16	22.40	22.51	22.41						
3	QPSK	8	4	22.53	22.56	22.59						
3	QPSK	8	7	22.52	22.58	22.52	24	0				
3	QPSK	12	0	22.52	22.51	22.53						
3	QPSK	12	0	22.51	22.50	22.47						
3	16QAM	1	0	22.51	22.50	22.47						
3	16QAM	1	8	22.52	22.34	22.50	24	0				
3	16QAM	8	7	22.47	22.39	22.41						
3	16QAM	8	4	22.49	22.48	22.53						
3	16QAM	15	0	22.48	22.48	22.51						
3	16QAM	1	0	22.47	22.52	22.49	24	0				
3	16QAM	8	4	22.34	22.38	22.52						
3	16QAM	1	14	22.40	22.44	22.36						
3	16QAM	8	0	21.27	21.30	21.26						
3	16QAM	8	4	21.47	21.44	21.50	23	1				
3	16QAM	8	7	21.48	21.50	21.57						
3	16QAM	15	0	21.43	21.60	21.55						
3	256QAM	1	0	20.06	20.08	20.15						
3	256QAM	1	8	20.14	20.26	20.24	22	2				
3	256QAM	1	14	20.22	20.31	20.39						
3	256QAM	8	4	20.37	20.47	20.46						
3	256QAM	8	7	20.40	20.53	20.47						
3	256QAM	15	0	20.52	20.49	20.51	22	2				
3	256QAM	15	0	20.52	20.49	20.51						
Channel												
23057 23059 23173												
1.4	QPSK	1	0	22.56	22.52	22.45				24	0	
1.4	QPSK	1	3	22.33	22.37	22.52						
1.4	QPSK	1	5	22.37	22.46	22.35						
1.4	QPSK	3	0	22.36	22.41	22.43						
1.4	QPSK	3	1	22.47	22.52	22.57	24	0				
1.4	QPSK	3	3	22.50	22.54	22.48						
1.4	16QAM	1	0	22.48	22.45	22.46						
1.4	16QAM	1	0	22.48	22.52	22.45						
1.4	16QAM	1	3	22.27	22.29	22.45	24	0				
1.4	16QAM	3	0	22.35	22.43	22.38						
1.4	16QAM	3	0	22.33	22.35	22.32						
1.4	16QAM	3	1	22.45	22.44	22.50						
1.4	16QAM	8	0	22.44	22.44	22.47	24	0				
1.4	16QAM	3	3	22.31	22.38	22.48						
1.4	16QAM	1	5	22.36	22.39	22.39						
1.4	16QAM	3	0	22.21	22.40	22.23						
1.4	16QAM	3	0	22.55	22.55	22.58	23	1				
1.4	16QAM	3	3	22.57	22.68	22.37						
1.4	16QAM	6	0	21.54	21.33	21.52						
1.4	256QAM	1	0	20.33	20.23	20.01						
1.4	256QAM	1	3	20.45	20.08	20.36	22	2				
1.4	256QAM	1	5	20.40	20.40	20.24						
1.4	256QAM	3	0	20.28	20.42	20.19						
1.4	256QAM	3	1	20.66	20.27	20.53						
1.4	256QAM	6	0	20.53	20.67	20.45	22	2				
1.4	256QAM	6	0	20.51	20.28	20.47						
1.4	256QAM	6	0	20.51	20.28	20.47						
1.4	256QAM	6	0	20.51	20.28	20.47						

Band 13(700MHz Band) Ant1 DS12 Power Part 27F									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up time (sec)	MPE (dB)	
Channel									
712									
Frequency (MHz)									
10	QPSK	1	0	22.48	22.48		23	0	
10	QPSK	1	25	22.16	22.16				
10	QPSK	1	49	22.24	22.24				
10	QPSK	25	0	22.19	22.19				
10	QPSK	25	12	22.15	22.15		23	0	
10	QPSK	25	25	22.17	22.17				
10	QPSK	50	0	22.11	22.11				
10	QPSK	1	0	22.44	22.44		23	0	
10	QPSK	1	25	22.12	22.12				
10	QPSK	1	49	22.42	22.42				
10	QPSK	25	0	21.44	21.44				
10	QPSK	25	12	21.82	21.82		23	0	
10	QPSK	25	25	21.67	21.67				
10	QPSK	50	0	21.58	21.58				
10	QPSK	1	0	22.01	22.01		23	0	
10	QPSK	1	25	22.05	22.05				
10	QPSK	1	49	22.08	22.08				
10	QPSK	25	0	21.42	21.42				
10	QPSK	25	12	21.70	21.70		22	1	
10	QPSK	25	25	21.67	21.67				
10	QPSK	50	0	21.58	21.58				
10	QPSK	1	0	20.60	20.60		21	2	
10	QPSK	1	25	20.44	20.44				
10	QPSK	1	49	20.40	20.40				
10	QPSK	25	0	20.51	20.51				
10	QPSK	25	12	20.49	20.49		21	2	
10	QPSK	25	25	20.45	20.45				
10	QPSK	50	0	20.53	20.53				
Channel									
719.5									
Frequency (MHz)									
5	QPSK	1	0	22.28	22.28	22.28	23	0	
5	QPSK	1	12	22.41	22.17	22.21			
5	QPSK	1	25	22.17	22.18	22.38			
5	QPSK	12	0	22.16	22.02	22.07			
5	QPSK	12	7	22.05	22.08	22.25	23	0	
5	QPSK	12	14	22.03	22.18	22.12			
5	QPSK	12	21	22.05	22.03	22.21			
5	QPSK	1	0	22.28	22.14	22.40	23	0	
5	QPSK	1	12	22.07	22.06	22.48			
5	QPSK	1	24	22.00	22.05	22.05			
5	QPSK	12	0	21.31	21.34	21.80			
5	QPSK	12	7	21.15	21.63	21.51	23	0	
5	QPSK	12	14	21.42	21.54	21.61			
5	QPSK	12	21	21.26	21.59	21.51			
5	QPSK	1	0	21.27	21.15	22.28	23	0	
5	QPSK	1	12	22.07	22.20	22.16			
5	QPSK	1	24	22.28	22.44	22.08			
5	QPSK	12	0	21.36	21.34	21.64			
5	QPSK	12	7	21.36	21.57	21.60	22	1	
5	QPSK	12	14	21.24	21.67	21.38			
5	QPSK	12	21	21.27	21.43	21.31			
5	QPSK	1	0	20.38	20.24	20.37	21	2	
5	QPSK	1	12	20.31	20.20	20.32			
5	QPSK	1	24	20.35	20.38	20.50			
5	QPSK	12	0	20.43	20.38	20.32			
5	QPSK	12	7	20.33	20.20	20.50	21	2	
5	QPSK	12	14	20.17	20.17	20.35			
5	QPSK	12	21	20.24	20.25	20.40			



Band 26 for FCC Ant1 DS12 Power (only on channel required)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up Time (s)	Marg (dB)				
Channel												
Frequency (MHz)				811.5	811.5	811.5						
15	QPSK	1	0	22.27	22.40	22.28	23.4	0				
15	QPSK	1	37	22.28	22.24	22.31						
15	QPSK	1	74	22.05	22.31	22.38						
15	QPSK	36	0	22.22	22.38	22.32						
15	QPSK	36	20	22.31	22.28	22.32	23.4	0				
15	QPSK	36	39	22.32	22.31	22.38						
15	QPSK	75	0	22.31	22.33	22.32						
15	HQAM	1	0	22.21	22.34	22.27						
15	HQAM	1	37	22.34	22.20	22.27	23.4	0				
15	HQAM	1	74	22.01	22.27	22.30						
15	HQAM	36	0	22.17	22.18	22.30						
15	HQAM	36	20	22.28	22.22	22.28						
15	HQAM	36	39	22.35	22.24	22.38	23.4	0				
15	HQAM	75	0	22.31	22.30	22.29						
15	HQAM	1	0	22.63	22.22	22.24						
15	HQAM	1	37	22.12	22.04	22.07						
15	HQAM	1	74	22.04	22.03	22.07	23.4	0				
15	HQAM	36	0	22.07	22.08	22.18						
15	HQAM	36	20	22.10	22.02	22.15						
15	HQAM	36	39	22.12	22.06	22.15						
15	HQAM	75	0	22.14	22.08	22.08	22	1.4				
15	SSBQAM	1	0	20.81	20.83	20.78						
15	SSBQAM	1	37	21.03	20.83	21.07						
15	SSBQAM	1	74	20.83	21.01	20.88						
15	SSBQAM	36	0	20.82	20.84	20.87	22	1.4				
15	SSBQAM	36	20	20.95	20.80	21.03						
15	SSBQAM	36	39	21.03	21.10	21.18						
15	SSBQAM	75	0	20.87	20.89	21.00						
Channel												
Frequency (MHz)				815	815.5	844	Turn-up Time (s)	Marg (dB)				
10	QPSK	1	0	22.24	22.37	22.24	23.4	0				
10	QPSK	1	25	22.32	22.21	22.28						
10	QPSK	1	49	22.09	22.26	22.31						
10	QPSK	20	0	22.18	22.20	22.32						
10	QPSK	25	12	22.28	22.24	22.38	23.4	0				
10	QPSK	25	25	22.35	22.32	22.38						
10	QPSK	50	0	22.32	22.27	22.32						
10	HQAM	1	0	22.18	22.28	22.17						
10	HQAM	1	25	22.31	22.14	22.23	23.4	0				
10	HQAM	1	49	22.01	22.23	22.16						
10	HQAM	25	0	22.11	22.14	22.30						
10	HQAM	25	12	22.24	22.17	22.28						
10	HQAM	50	0	22.28	22.28	22.30	23.4	0				
10	HQAM	1	0	22.20	22.34	22.19						
10	HQAM	1	25	22.29	22.16	22.28						
10	HQAM	1	49	22.07	22.21	22.27						
10	HQAM	25	0	22.14	22.15	22.30	23.4	0				
10	HQAM	25	12	22.32	22.23	22.30						
10	HQAM	50	0	22.21	22.34	22.25						
10	HQAM	50	0	22.28	22.21	22.25						
10	SSBQAM	1	0	20.82	20.82	20.82	22	1.4				
10	SSBQAM	1	25	20.92	20.74	21.05						
10	SSBQAM	1	49	20.66	21.03	20.86						
10	SSBQAM	25	0	20.83	20.82	20.82						
10	SSBQAM	25	12	20.84	20.81	21.13	22	1.4				
10	SSBQAM	25	25	21.07	21.03	21.19						
10	SSBQAM	50	0	20.78	20.80	21.00						
Channel												
Frequency (MHz)				815.5	815.5	844.5	Turn-up Time (s)	Marg (dB)				
5	QPSK	1	0	22.19	22.31	22.19	23.4	0				
5	QPSK	1	12	22.28	22.17	22.29						
5	QPSK	1	24	22.04	22.21	22.28						
5	QPSK	12	0	22.13	22.16	22.30						
5	QPSK	12	7	22.24	22.21	22.30	23.4	0				
5	QPSK	12	13	22.32	22.28	22.32						
5	QPSK	36	0	22.30	22.29	22.37						
5	HQAM	1	0	22.13	22.23	22.19						
5	HQAM	1	12	22.27	22.11	22.21	23.4	0				
5	HQAM	1	24	22.04	22.18	22.21						
5	HQAM	12	0	22.07	22.10	22.27						
5	HQAM	12	13	22.28	22.28	22.28						
5	HQAM	25	0	22.26	22.24	22.38	23.4	0				
5	HQAM	1	0	22.16	22.28	22.15						
5	HQAM	1	12	22.23	22.10	22.15						
5	HQAM	1	24	22.01	22.18	22.22						
5	HQAM	12	0	22.12	22.10	22.28	23.4	0				
5	HQAM	12	7	22.13	22.21	22.21						
5	HQAM	12	13	22.27	22.28	22.25						
5	SSBQAM	1	0	20.88	20.89	20.86						
5	SSBQAM	1	12	20.91	20.78	21.10	22	1.4				
5	SSBQAM	1	24	20.66	20.93	20.90						
5	SSBQAM	12	0	20.86	20.80	20.86						
5	SSBQAM	12	7	21.01	20.83	21.14						
5	SSBQAM	12	13	21.05	21.14	21.27	22	1.4				
5	SSBQAM	25	0	20.87	20.93	21.00						
Channel												
Frequency (MHz)				815.5	815.5	847.5			Turn-up Time (s)	Marg (dB)		
3	QPSK	1	0	22.15	22.29	22.15	23.4	0				
3	QPSK	1	8	22.22	22.13	22.22						
3	QPSK	1	14	22.08	22.19	22.22						
3	QPSK	8	0	22.10	22.11	22.24						
3	QPSK	8	4	22.21	22.17	22.17	23.4	0				
3	QPSK	8	7	22.29	22.21	22.28						
3	QPSK	16	0	22.25	22.18	22.23						
3	HQAM	1	0	22.08	22.18	22.10						
3	HQAM	1	8	22.25	22.07	22.18	23.4	0				
3	HQAM	1	14	22.02	22.13	22.17						
3	HQAM	8	0	22.01	22.06	22.24						
3	HQAM	8	4	22.14	22.08	22.15						
3	HQAM	8	7	22.24	22.23	22.25	23.4	0				
3	HQAM	16	0	22.22	22.21	22.25						
3	HQAM	1	0	22.12	22.22	22.12						
3	HQAM	1	8	22.21	22.10	22.15						
3	HQAM	1	14	22.06	22.15	22.19	23.4	0				
3	HQAM	8	0	22.06	22.04	22.22						
3	HQAM	8	4	22.13	22.16	22.17						
3	HQAM	8	7	22.23	22.22	22.21						
3	HQAM	16	0	22.16	22.14	22.16	22	1.4				
3	SSBQAM	1	0	20.80	20.81	20.84						
3	SSBQAM	1	8	21.04	20.78	21.04						
3	SSBQAM	1	14	20.99	20.99	20.99						
3	SSBQAM	8	0	20.91	20.85	20.90	22	1.4				
3	SSBQAM	8	4	21.00	20.83	21.12						
3	SSBQAM	8	7	21.08	21.01	21.18						
3	SSBQAM	16	0	20.85	21.01	21.03						
Channel												
Frequency (MHz)				816.5	816.5	848.5	Turn-up Time (s)	Marg (dB)				
1.4	QPSK	1	0	22.04	22.28	22.13	23.4	0				
1.4	QPSK	1	8	22.20	22.09	22.17						
1.4	QPSK	1	15	22.04	22.14	22.17						
1.4	QPSK	1	22	22.07	22.08	22.17						
1.4	QPSK	3	0	22.19	22.13	22.13	23.4	0				
1.4	QPSK	3	8	22.26	22.19	22.24						
1.4	QPSK	3	15	22.23	22.17	22.21						
1.4	QPSK	3	22	22.04	22.12	22.26						
1.4	HQAM	1	0	22.04	22.24	22.14	23.4	0				
1.4	HQAM	1	8	22.07	22.09	22.15						
1.4	HQAM	3	0	22.05	22.03	22.20						
1.4	HQAM	3	8	22.08	22.05	22.13						
1.4	HQAM	3	15	22.19	22.17	22.21	23.4	0				
1.4	HQAM	3	22	22.19	22.16	22.20						
1.4	HQAM	1	0	22.18	22.20	22.20						
1.4	HQAM	1	8	22.17	22.00	22.13						
1.4	HQAM	1	15	22.03	22.10	22.15	23.4	0				
1.4	HQAM	3	0	22.09	22.08	22.22						
1.4	HQAM	3	8	22.08	22.12	22.13						
1.4	HQAM	3	15	22.17	22.19	22.19						
1.4	HQAM	3	22	22.11	22.14	22.21	23.4	0				
1.4	HQAM	1	0	20.87	20.90	20.93						
1.4	SSBQAM	1	0	20.94	20.85	20.74						
1.4	SSBQAM	1	8	21.09	20.87	21.11						
1.4	SSBQAM	3	0	20.85	20.84	20.91	22	1.4				
1.4	SSBQAM	3	8	21.00	20.85	21.11						
1.4	SSBQAM	3	15	21.09	20.97	21.17						
1.4	SSBQAM	3	22	20.94	20.91	20.95						



Band 38(only on channel required) Ant1 DS12 Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	18.74	18.87	18.75			
20	QPSK	1	49	18.72	18.69	18.63	19.5	0	
20	QPSK	1	99	18.74	18.68	18.47			
20	QPSK	50	0	18.58	18.50	18.49			
20	QPSK	50	24	18.67	18.63	18.77			
20	QPSK	50	50	18.75	18.76	18.49	19.5	0	
20	QPSK	100	0	18.60	18.71	18.66			
20	16QAM	1	0	18.61	18.54	18.74			
20	16QAM	1	49	18.66	18.59	18.44	19.5	0	
20	16QAM	1	99	18.58	18.58	18.72			
20	16QAM	50	0	18.70	18.59	18.60			
20	16QAM	50	24	18.37	18.40	18.70			
20	16QAM	50	50	18.74	18.68	18.63	19.5	0	
20	16QAM	100	0	18.36	18.64	18.54			
20	64QAM	1	0	18.66	18.62	18.64			
20	64QAM	1	49	18.54	18.46	18.62	19.5	0	
20	64QAM	1	99	18.51	18.61	18.42			
20	64QAM	50	0	18.75	18.52	18.40			
20	64QAM	50	24	18.75	18.55	18.65			
20	64QAM	50	50	18.77	18.72	18.58	19.5	0	
20	64QAM	100	0	18.58	18.40	18.64			
20	256QAM	1	0	18.53	18.55	18.65			
20	256QAM	1	49	18.62	18.38	18.52	19.5	0	
20	256QAM	1	99	18.58	18.62	18.20			
20	256QAM	50	0	18.53	18.23	18.52			
20	256QAM	50	24	18.66	18.50	18.49			
20	256QAM	50	50	18.73	18.61	18.42	19.5	0	
20	256QAM	100	0	18.45	18.52	18.56			
Channel Frequency (MHz)									
15	QPSK	36	0	18.81	18.70	18.77			
15	QPSK	1	37	18.67	18.51	18.56	19.5	0	
15	QPSK	1	74	18.72	18.58	18.52			
15	QPSK	36	0	18.56	18.72	18.54			
15	QPSK	36	20	18.75	18.44	18.60			
15	QPSK	36	39	18.66	18.57	18.61	19.5	0	
15	QPSK	75	0	18.61	18.62	18.48			
15	16QAM	1	0	18.67	18.57	18.61			
15	16QAM	1	37	18.74	18.71	18.65	19.5	0	
15	16QAM	1	74	18.49	18.66	18.61			
15	16QAM	36	0	18.71	18.53	18.59			
15	16QAM	36	20	18.61	18.45	18.58			
15	16QAM	36	39	18.61	18.47	18.46	19.5	0	
15	16QAM	75	0	18.38	18.51	18.40			
15	64QAM	1	0	18.60	18.50	18.62			
15	64QAM	1	37	18.60	18.68	18.62	19.5	0	
15	64QAM	1	74	18.58	18.68	18.42			
15	64QAM	36	0	18.76	18.47	18.59			
15	64QAM	36	20	18.65	18.53	18.57			
15	64QAM	36	39	18.60	18.68	18.73	19.5	0	
15	64QAM	75	0	18.60	18.53	18.63			
15	256QAM	1	0	18.52	18.40	18.25			
15	256QAM	1	37	18.66	18.59	18.54			
15	256QAM	1	74	18.44	18.48	18.33			
15	256QAM	36	0	18.50	18.45	18.57			
15	256QAM	36	20	18.50	18.36	18.61			
15	256QAM	36	39	18.56	18.47	18.58	19.5	0	
15	256QAM	75	0	18.54	18.37	18.63			
Channel Frequency (MHz)									
10	QPSK	36	0	18.55	18.71	18.61			
10	QPSK	1	25	18.65	18.62	18.69	19.5	0	
10	QPSK	1	49	18.84	18.74	18.64			
10	QPSK	25	0	18.51	18.77	18.54			
10	QPSK	25	12	18.67	18.53	18.58			
10	QPSK	25	25	18.53	18.75	18.73	19.5	0	
10	QPSK	50	0	18.56	18.64	18.48			
10	16QAM	1	0	18.48	18.56	18.74			
10	16QAM	1	25	18.59	18.73	18.44	19.5	0	
10	16QAM	1	49	18.63	18.49	18.53			
10	16QAM	25	0	18.59	18.55	18.48			
10	16QAM	25	12	18.67	18.46	18.56			
10	16QAM	25	25	18.75	18.70	18.69	19.5	0	
10	16QAM	50	0	18.48	18.73	18.66			
10	64QAM	1	0	18.44	18.56	18.46			
10	64QAM	1	24	18.58	18.62	18.56	19.5	0	
10	64QAM	1	49	18.56	18.68	18.50			
10	64QAM	25	0	18.68	18.50	18.55			
10	64QAM	25	12	18.64	18.63	18.72			
10	64QAM	25	25	18.77	18.53	18.72	19.5	0	
10	64QAM	50	0	18.67	18.43	18.60			
10	256QAM	1	0	18.47	18.38	18.62			
10	256QAM	1	25	18.59	18.38	18.27	19.5	0	
10	256QAM	1	49	18.56	18.47	18.38			
10	256QAM	25	0	18.55	18.47	18.31			
10	256QAM	25	12	18.63	18.36	18.68			
10	256QAM	25	25	18.72	18.64	18.54	19.5	0	
10	256QAM	50	0	18.42	18.52	18.63			
Channel Frequency (MHz)									
5	QPSK	1	0	18.66	18.60	18.75			
5	QPSK	1	12	18.76	18.48	18.59	19.5	0	
5	QPSK	1	24	18.71	18.70	18.59			
5	QPSK	12	0	18.73	18.72	18.50			
5	QPSK	12	7	18.73	18.63	18.62			
5	QPSK	12	13	18.78	18.62	18.73	19.5	0	
5	QPSK	25	0	18.71	18.70	18.69			
5	16QAM	1	0	18.61	18.46	18.49			
5	16QAM	1	12	18.50	18.51	18.54	19.5	0	
5	16QAM	1	24	18.74	18.71	18.67			
5	16QAM	12	0	18.56	18.40	18.42			
5	16QAM	12	7	18.65	18.48	18.59			
5	16QAM	12	13	18.63	18.50	18.54	19.5	0	
5	16QAM	25	0	18.47	18.50	18.49			
5	64QAM	1	0	18.53	18.51	18.48			
5	64QAM	1	12	18.62	18.45	18.59	19.5	0	
5	64QAM	1	24	18.50	18.52	18.36			
5	64QAM	12	0	18.56	18.52	18.46			
5	64QAM	12	7	18.71	18.70	18.70	19.5	0	
5	64QAM	12	13	18.62	18.62	18.50			
5	64QAM	25	0	18.70	18.40	18.75			
5	256QAM	1	0	18.29	18.28	18.45			
5	256QAM	1	12	18.39	18.40	18.47	19.5	0	
5	256QAM	1	24	18.49	18.53	18.35			
5	256QAM	12	0	18.48	18.40	18.50			
5	256QAM	12	7	18.48	18.46	18.48			
5	256QAM	12	13	18.65	18.42	18.49	19.5	0	
5	256QAM	25	0	18.53	18.30	18.47			

Band 38(only on channel required) PC2 Ant1 DS12 Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				37850	38000	38150			
20	QPSK	1	0	20.05	20.21	20.17			
20	QPSK	1	49	20.10	20.10	20.01	21.1	0	
20	QPSK	1	99	20.08	20.00	20.10			
20	QPSK	50	0	20.11	20.19	20.15			
20	QPSK	50	24	19.80	19.76	19.88			
20	QPSK	50	50	19.76	19.77	19.82	21.1	0	
20	QPSK	100	0	19.75	19.63	19.80			
20	16QAM	1	0	19.64	19.69	19.67			
20	16QAM	1	49	19.77	19.80	19.84	21.1	0	
20	16QAM	1	99	19.76	19.78	19.80			
20	16QAM	50	0	19.64	19.63	19.72			
20	16QAM	50	24	19.79	19.72	19.87			
20	16QAM	50	50	19.75	19.78	19.85	21.1	0	
20	16QAM	100	0	19.72	19.76	19.80			
20	64QAM	1	0	19.73	19.64	19.86			
20	64QAM	1	49	19.89	19.79	19.84	21.1	0	
20	64QAM	1	99	19.81	19.82	19.80			
20	64QAM	50	0	19.62	19.68	19.71			
20	64QAM	50	24	19.75	19.71	19.84			
20	64QAM	50	50	19.72	19.75	19.79	21.1	0	
20	64QAM	100	0	19.70	19.72	19.77			
20	256QAM	1	0	19.59	19.56	19.73			
20	256QAM	1	49	19.60	19.68	19.65	21.1	0	
20	256QAM	1	99	19.60	19.72	19.65			
20	256QAM	50	0	19.46	19.56	19.64			
20	256QAM	50	24	19.68	19.62	19.76			
20	256QAM	50	50	19.70	19.72	19.67	21.1	0	
20	256QAM	100	0	19.55	19.54	19.63			
Channel Frequency (MHz)				37850	38000	38175	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	20.775	20.96	20.125			
15	QPSK	1	37	19.75	20.01	19.80			
15	QPSK	1	74	19.92	19.86	19.94	21.1	0	
15	QPSK	36	0	19.65	19.83	19.84			
15	QPSK	36	20	19.67	19.67	19.77			
15	QPSK	36	39	19.68	19.69	19.79	21.1	0	
15	QPSK	75	0	19.66	19.77	19.69			
15	16QAM	1	0	19.51	19.60	19.72			
15	16QAM	1	37	19.64	19.71	19.78	21.1	0	
15	16QAM	1	74	19.71	19.69	19.73			
15	16QAM	36	0	19.49	19.49	19.56			
15	16QAM	36	20	19.66	19.63	19.74			
15	16QAM	36	39	19.68	19.65	19.72	21.1	0	
15	16QAM	75	0	19.63	19.62	19.77			
15	64QAM	1	0	19.60	19.53	19.82			
15	64QAM	1	37	19.79	19.74	19.70	21.1	0	
15	64QAM	1	74	19.76	19.75	19.72			
15	64QAM	36	0	19.52	19.54	19.67			
15	64QAM	36	20	19.61	19.60	19.75			
15	64QAM	36	39	19.61	19.67	19.71	21.1	0	
15	64QAM	75	0	19.62	19.63	19.62			
15	256QAM	1	0	19.51	19.50	19.68			
15	256QAM	1	37	19.69	19.59	19.54	21.1	0	
15	256QAM	1	74	19.61	19.62	19.62			
15	256QAM	36	0	19.36	19.51	19.58			
15	256QAM	36	20	19.65	19.50	19.67			
15	256QAM	36	39	19.51	19.48	19.59	21.1	0	
15	256QAM	75	0	19.54	19.57	19.55			
Channel Frequency (MHz)				37800	38000	38050	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	19.71	20.04	19.85			
10	QPSK	1	25	20.07	19.91	19.86	21.1	0	
10	QPSK	1	50	19.96	19.88	19.99			
10	QPSK	25	0	19.48	19.81	19.52			
10	QPSK	25	12	19.70	19.73	19.70			
10	QPSK	25	25	19.61	19.68	19.75	21.1	0	
10	QPSK	50	0	19.67	19.83	19.63			
10	16QAM	1	0	19.52	19.59	19.66			
10	16QAM	1	25	19.68	19.67	19.61	21.1	0	
10	16QAM	1	50	19.66	19.67	19.68			
10	16QAM	25	0	19.45	19.44	19.65			
10	16QAM	25	12	19.67	19.59	19.79			
10	16QAM	25	25	19.67	19.61	19.73	21.1	0	
10	16QAM	50	0	19.56	19.64	19.74			
10	64QAM	1	0	19.63	19.50	19.72			
10	64QAM	1	25	19.83	19.83	19.68			
10	64QAM	25	12	19.77	19.65	19.68	21.1	0	
10	64QAM	25	25	19.61	19.56	19.70			
10	64QAM	25	50	19.67	19.63	19.60	21.1	0	
10	64QAM	50	0	19.48	19.40	19.59			
10	256QAM	1	25	19.70	19.64	19.55	21.1	0	
10	256QAM	1	49	19.56	19.65	19.49			
10	256QAM	25	0	19.38	19.46	19.57			
10	256QAM	25	12	19.68	19.63	19.67			
10	256QAM	25	25	19.57	19.57	19.63	21.1	0	
10	256QAM	50	0	19.52	19.49	19.51			
Channel Frequency (MHz)				37776	38000	38025	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	20.225	20.96	20.175			
5	QPSK	1	12	20.01	19.95	19.97	21.1	0	
5	QPSK	12	0	19.99	19.92	19.87			
5	QPSK	12	12	19.50	19.85	19.60			
5	QPSK	12	7	19.75	19.62	19.75			
5	QPSK	12	13	19.58	19.59	19.72	21.1	0	
5	QPSK	25	0	19.68	19.81	19.73			
5	16QAM	1	0	19.62	19.60	19.67			
5	16QAM	1	12	19.62	19.71	19.74	21.1	0	
5	16QAM	1	24	19.67	19.66	19.65			
5	16QAM	12	0	19.52	19.46	19.65			
5	16QAM	12	7	19.64	19.61	19.79			
5	16QAM	12	13	19.66	19.63	19.74	21.1	0	
5	16QAM	25	0	19.67	19.59	19.72			
5	64QAM	1	0	19.69	19.48	19.70			
5	64QAM	1	12	19.82	19.66	19.80	21.1	0	
5	64QAM	1	24	19.78	19.65	19.65			
5	64QAM	12	0	19.54	19.59	19.61			
5	64QAM	12	12	19.67	19.58	19.75			
5	64QAM	12	13	19.57	19.71	19.74	21.1	0	
5	64QAM	25	0	19.61	19.68	19.69			
5	256QAM	1	0	19.47	19.42	19.61			
5	256QAM	1	12	19.68	19.53	19.55	21.1	0	
5	256QAM	1	24	19.61	19.64	19.62			
5	256QAM	12	0	19.41	19.44	19.58			
5	256QAM	12	12	19.56	19.51	19.67			
5	256QAM	12	13	19.64	19.63	19.64	21.1	0	
5	256QAM	25	0	19.50	19.40	19.40			



Band 42 (3.5GHz Band) Ant2 DS12 Power														
BW [MHz]	Modulation	RIS Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up time (min)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.02	22.04	21.87	23	0						
20	QPSK	1	6	21.91	21.81	21.79								
20	QPSK	1	16	21.59	21.74	21.57								
20	QPSK	1	26	21.59	21.74	21.57								
20	QPSK	12	0	21.59	21.63	21.55	22	1						
20	QPSK	12	24	21.53	21.60	21.44								
20	QPSK	12	42	21.41	21.48	21.47								
20	QPSK	12	60	21.41	21.48	21.47								
20	HQAM	1	0	21.53	21.22	21.58	22	1						
20	HQAM	1	6	21.53	21.22	21.58								
20	HQAM	1	16	21.20	21.29	21.18								
20	HQAM	1	26	21.20	21.29	21.18								
20	HQAM	12	0	20.99	20.96	20.97	21	2						
20	HQAM	12	24	20.94	20.94	20.94								
20	HQAM	12	42	20.93	20.95	20.95								
20	HQAM	12	60	20.93	20.95	20.94								
20	HQAM	1	0	21.45	21.30	21.26	22	1						
20	HQAM	1	6	21.45	21.30	21.26								
20	HQAM	1	16	21.12	21.31	21.28								
20	HQAM	1	26	21.12	21.31	21.28								
20	HQAM	12	0	20.92	20.92	20.92	21	2						
20	HQAM	12	24	20.92	20.92	20.92								
20	HQAM	12	42	20.92	20.92	20.92								
20	HQAM	12	60	20.92	20.92	20.92								
20	SSB/CAM	1	0	18.39	18.47	18.44	18	5						
20	SSB/CAM	1	6	18.39	18.47	18.44								
20	SSB/CAM	1	16	18.33	18.46	18.44								
20	SSB/CAM	1	26	18.33	18.46	18.44								
20	SSB/CAM	12	0	18.39	18.39	18.39	18	5						
20	SSB/CAM	12	24	18.33	18.33	18.33								
20	SSB/CAM	12	42	18.33	18.33	18.33								
20	SSB/CAM	12	60	18.33	18.33	18.33								
Channel														
Frequency (MHz)														
16	QPSK	1	0	21.98	22.02	21.94	23	0						
16	QPSK	1	6	21.84	21.76	21.79								
16	QPSK	1	16	21.56	21.62	21.51								
16	QPSK	1	26	21.56	21.62	21.51								
16	QPSK	12	0	21.56	21.44	21.44	22	1						
16	QPSK	12	24	21.48	21.48	21.54								
16	QPSK	12	42	21.48	21.48	21.54								
16	QPSK	12	60	21.48	21.48	21.54								
16	HQAM	1	0	21.48	21.11	21.54	22	1						
16	HQAM	1	6	21.48	21.11	21.54								
16	HQAM	1	16	21.16	21.18	21.51								
16	HQAM	1	26	21.16	21.18	21.51								
16	HQAM	12	0	20.74	20.43	20.30	21	2						
16	HQAM	12	24	20.74	20.43	20.30								
16	HQAM	12	42	20.61	20.61	20.61								
16	HQAM	12	60	20.61	20.61	20.61								
16	HQAM	1	0	20.92	20.92	20.92	21	2						
16	HQAM	1	6	20.92	20.92	20.92								
16	HQAM	1	16	20.62	20.62	20.62								
16	HQAM	1	26	20.62	20.62	20.62								
16	SSB/CAM	1	0	18.29	18.29	18.29	18	5						
16	SSB/CAM	1	6	18.29	18.29	18.29								
16	SSB/CAM	1	16	18.24	18.24	18.24								
16	SSB/CAM	1	26	18.24	18.24	18.24								
16	SSB/CAM	12	0	18.29	18.29	18.29	18	5						
16	SSB/CAM	12	24	18.24	18.24	18.24								
16	SSB/CAM	12	42	18.24	18.24	18.24								
16	SSB/CAM	12	60	18.24	18.24	18.24								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.53	21.53	21.53	23	0						
10	QPSK	1	6	21.53	21.53	21.53								
10	QPSK	1	16	21.53	21.53	21.53								
10	QPSK	1	26	21.53	21.53	21.53								
10	QPSK	12	0	21.53	21.53	21.53	22	1						
10	QPSK	12	24	21.53	21.53	21.53								
10	QPSK	12	42	21.53	21.53	21.53								
10	QPSK	12	60	21.53	21.53	21.53								
10	HQAM	1	0	21.48	21.38	21.48	22	1						
10	HQAM	1	6	21.48	21.38	21.48								
10	HQAM	1	16	21.37	21.28	21.47								
10	HQAM	1	26	21.37	21.28	21.47								
10	HQAM	12	0	21.54	21.50	21.55	21	2						
10	HQAM	12	24	21.54	21.50	21.55								
10	HQAM	12	42	21.54	21.50	21.55								
10	HQAM	12	60	21.54	21.50	21.55								
10	HQAM	1	0	20.94	20.96	20.97	21	2						
10	HQAM	1	6	20.94	20.96	20.97								
10	HQAM	1	16	20.64	20.64	20.64								
10	HQAM	1	26	20.64	20.64	20.64								
10	HQAM	12	0	20.70	20.70	20.70	21	2						
10	HQAM	12	24	20.70	20.70	20.70								
10	HQAM	12	42	20.70	20.70	20.70								
10	HQAM	12	60	20.70	20.70	20.70								
10	HQAM	1	0	20.30	20.30	20.30	18	5						
10	HQAM	1	6	20.30	20.30	20.30								
10	HQAM	1	16	20.00	20.00	20.00								
10	HQAM	1	26	20.00	20.00	20.00								
10	HQAM	12	0	20.30	20.30	20.30	18	5						
10	HQAM	12	24	20.30	20.30	20.30								
10	HQAM	12	42	20.30	20.30	20.30								
10	HQAM	12	60	20.30	20.30	20.30								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.87	21.93	21.85	23	0						
5	QPSK	1	6	21.81	21.76	21.80								
5	QPSK	1	16	21.50	21.54	21.49								
5	QPSK	1	26	21.50	21.54	21.49								
5	QPSK	12	0	21.50	21.51	21.52	22	1						
5	QPSK	12	24	21.49	21.42	21.50								
5	QPSK	12	42	21.50	21.48	21.50								
5	QPSK	12	60	21.50	21.48	21.50								
5	HQAM	1	0	21.48	21.11	21.55	22	1						
5	HQAM	1	6	21.48	21.11	21.55								
5	HQAM	1	16	21.11	21.18	21.51								
5	HQAM	1	26	21.11	21.18	21.51								

Ant1 DS12 Simultaneous Power								
GSM850	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		129	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.17	29.13	29.12	30.50	20.17	20.13	20.12	21.50
GPRS 1 Tx slot	29.29	29.18	29.13	30.50	20.29	20.18	20.13	21.50
GPRS 2 Tx slots	26.41	26.34	26.23	27.50	20.41	20.34	20.23	21.50
GPRS 3 Tx slots	24.62	24.51	24.45	25.70	20.36	20.25	20.19	21.44
GPRS 4 Tx slots	23.19	23.39	23.21	24.50	20.19	20.39	20.21	21.50
EDGE 1 Tx slot	25.00	25.08	25.11	26.00	16.00	16.08	16.11	17.00
EDGE 2 Tx slots	23.30	23.43	23.46	25.00	17.30	17.43	17.46	19.00
EDGE 3 Tx slots	22.12	22.14	22.18	24.00	17.86	17.88	17.92	19.74
EDGE 4 Tx slots	20.13	20.12	20.16	22.00	17.13	17.12	17.16	19.00

Ant1 DS12 Simultaneous Power				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	520.4	536.4	543.0	
3GPP Rel 99 AMR 12.2kbps	22.69	22.84	22.81	23.50
3GPP Rel 99 RMC 12.2kbps	22.71	22.90	22.83	23.50
3GPP Rel 6 HSDPA Subtest-1	21.73	21.79	21.81	22.50
3GPP Rel 6 HSDPA Subtest-2	21.70	21.68	21.78	22.50
3GPP Rel 6 HSDPA Subtest-3	21.21	21.30	21.26	22.00
3GPP Rel 6 HSDPA Subtest-4	21.26	21.21	21.24	22.00
3GPP Rel 8 DC-HSDPA Subtest-1	21.50	21.67	21.49	22.50
3GPP Rel 8 DC-HSDPA Subtest-2	21.42	21.57	21.59	22.50
3GPP Rel 8 DC-HSDPA Subtest-3	20.99	21.17	21.02	22.00
3GPP Rel 8 DC-HSDPA Subtest-4	21.08	21.03	21.06	22.00
3GPP Rel 6 HSUPA Subtest-1	21.70	21.78	21.85	22.50
3GPP Rel 6 HSUPA Subtest-2	19.68	19.75	19.72	20.50
3GPP Rel 6 HSUPA Subtest-3	20.61	20.77	20.73	21.50
3GPP Rel 6 HSUPA Subtest-4	19.67	19.73	19.71	20.50
3GPP Rel 6 HSUPA Subtest-5	21.61	21.77	21.69	22.50



Band 7 (2600MHz Band) Ant1 DS12 Simultaneous Power									
Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max/Ch./Freq.	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.41	16.59	16.53			
20	QPSK	1	49	16.42	16.52	16.53	17.4	0	
20	QPSK	1	99	16.51	16.52	16.48			
20	QPSK	50	0	16.27	16.53	16.23			
20	QPSK	50	24	16.35	16.44	16.32	17.4	0	
20	QPSK	50	50	16.40	16.45	16.33			
20	QPSK	100	0	16.38	16.48	16.26			
20	HQAM	1	0	16.11	16.19	16.05			
20	HQAM	1	49	16.27	16.33	16.23	17.4	0	
20	HQAM	1	99	16.25	16.33	16.19			
20	HQAM	50	0	16.32	16.32	16.25			
20	HQAM	50	24	16.39	16.43	16.37	17.4	0	
20	HQAM	50	50	16.43	16.48	16.46			
20	HQAM	100	0	16.37	16.39	16.28			
20	HQAM	1	0	16.32	16.36	16.21	17.4	0	
20	HQAM	1	49	16.44	16.26	16.42			
20	HQAM	1	99	16.52	16.49	16.36			
20	HQAM	50	0	16.30	16.33	16.29			
20	HQAM	50	24	16.41	16.44	16.37	17.4	0	
20	HQAM	50	50	16.40	16.44	16.35			
20	HQAM	100	0	16.42	16.31	16.29			
20	SSQAM	1	0	16.25	16.36	16.21			
20	SSQAM	1	49	16.34	16.08	16.37	17.4	0	
20	SSQAM	1	99	16.40	16.42	16.28			
20	SSQAM	50	0	16.13	16.23	16.03			
20	SSQAM	50	24	16.38	16.25	16.35	17.4	0	
20	SSQAM	50	50	16.32	16.29	16.27			
20	SSQAM	100	0	16.00	16.100	16.100			
Channel									
Frequency (MHz)									
15	QPSK	1	0	16.43	16.38	16.36			
15	QPSK	1	37	16.08	16.43	16.49	17.4	0	
15	QPSK	1	74	16.50	16.33	16.52			
15	QPSK	36	0	16.27	16.39	16.13			
15	QPSK	36	20	16.28	16.42	16.34	17.4	0	
15	QPSK	36	36	16.42	16.40	16.34			
15	QPSK	75	0	16.34	16.54	16.22			
15	HQAM	1	0	15.99	16.11	16.09			
15	HQAM	1	37	16.19	16.28	16.15	17.4	0	
15	HQAM	1	74	16.24	16.26	16.19			
15	HQAM	36	0	16.28	16.34	16.26			
15	HQAM	36	20	16.28	16.41	16.28	17.4	0	
15	HQAM	36	36	16.43	16.39	16.37			
15	HQAM	75	0	16.31	16.24	16.17			
15	HQAM	1	0	16.25	16.23	16.15	17.4	0	
15	HQAM	1	37	16.33	16.12	16.33			
15	HQAM	1	74	16.44	16.47	16.42			
15	HQAM	36	0	16.30	16.28	16.09	17.4	0	
15	HQAM	36	20	16.43	16.43	16.39			
15	HQAM	36	36	16.42	16.31	16.25			
15	HQAM	75	0	16.41	16.33	16.16			
15	SSQAM	1	0	16.23	16.23	16.16			
15	SSQAM	1	37	16.25	16.03	16.32	17.4	0	
15	SSQAM	1	74	16.33	16.31	16.13			
15	SSQAM	36	0	16.06	16.28	16.03			
15	SSQAM	36	20	16.21	16.10	16.19	17.4	0	
15	SSQAM	36	36	16.23	16.24	16.23			
15	SSQAM	75	0	16.27	16.12	16.23			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.31	16.51	16.23			
10	QPSK	1	25	16.48	16.34	16.37	17.4	0	
10	QPSK	1	49	16.54	16.39	16.37			
10	QPSK	25	0	16.22	16.40	16.28			
10	QPSK	25	12	16.16	16.37	16.19	17.4	0	
10	QPSK	25	25	16.31	16.27	16.19			
10	QPSK	50	0	16.34	16.28	16.25			
10	HQAM	1	0	16.09	16.07	15.90			
10	HQAM	1	25	16.16	16.19	16.22	17.4	0	
10	HQAM	1	49	16.26	16.18	16.16			
10	HQAM	25	0	16.19	16.26	16.15			
10	HQAM	25	12	16.28	16.22	16.18	17.4	0	
10	HQAM	25	25	16.41	16.34	16.17			
10	HQAM	50	0	16.32	16.18	16.15			
10	HQAM	1	0	16.19	16.13	16.06	17.4	0	
10	HQAM	1	25	16.20	16.14	16.28			
10	HQAM	1	49	16.39	16.44	16.14			
10	HQAM	25	0	16.07	16.18	16.22			
10	HQAM	25	12	16.22	16.38	16.23	17.4	0	
10	HQAM	25	25	16.37	16.37	16.21			
10	HQAM	50	0	16.29	16.13	16.09			
10	SSQAM	1	0	16.16	16.32	16.19			
10	SSQAM	1	25	16.14	16.97	16.13	17.4	0	
10	SSQAM	1	49	16.24	16.28	16.16			
10	SSQAM	25	0	16.02	16.04	15.95			
10	SSQAM	25	12	16.29	16.02	16.16	17.4	0	
10	SSQAM	25	25	16.14	16.27	16.20			
10	SSQAM	50	0	16.23	16.17	15.98			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.23	16.36	16.23			
5	QPSK	1	12	16.06	16.15	16.14	17.4	0	
5	QPSK	1	24	16.37	16.13	16.10			
5	QPSK	12	0	16.19	16.51	16.12			
5	QPSK	12	7	16.33	16.32	16.30	17.4	0	
5	QPSK	12	13	16.26	16.29	16.20			
5	QPSK	25	0	16.17	16.48	16.22			
5	HQAM	1	0	15.93	16.00	16.08			
5	HQAM	1	12	16.19	16.15	16.18	17.4	0	
5	HQAM	1	24	16.15	16.32	16.05			
5	HQAM	12	0	16.17	16.29	16.08			
5	HQAM	12	7	16.31	16.30	16.30	17.4	0	
5	HQAM	12	13	16.31	16.20	16.17			
5	HQAM	25	0	16.37	16.13	16.08			
5	HQAM	1	0	16.19	16.11	16.12	17.4	0	
5	HQAM	1	12	16.37	16.11	16.32			
5	HQAM	1	24	16.27	16.38	16.23			
5	HQAM	12	0	16.15	16.15	16.02			
5	HQAM	12	7	16.30	16.34	16.31	17.4	0	
5	HQAM	12	13	16.39	16.27	16.19			
5	HQAM	25	0	16.23	16.10	16.26			
5	SSQAM	1	0	16.05	16.28	16.04			
5	SSQAM	1	12	16.20	16.99	16.14	17.4	0	
5	SSQAM	1	24	16.32	16.29	16.04			
5	SSQAM	12	0	16.03	16.17	15.98			
5	SSQAM	12	7	16.26	16.15	16.17	17.4	0	
5	SSQAM	12	13	16.24	16.18	16.26			
5	SSQAM	25	0	16.22	16.18	15.97			

Band 12 (700MHz Low Band) Ant1 DS12 Simultaneous Power Part 27F(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max/Ch./Freq.	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.41	22.67	22.67			
10	QPSK	1	25	22.44	22.48	22.49	23.5	0	
10	QPSK	1	49	22.50	22.58	22.49			
10	QPSK	25	0	22.48	22.65	22.54			
10	QPSK	25	12	22.64	22.63	22.63	23.5	0	
10	QPSK	25	25	22.60	22.84	22.60			
10	QPSK	50	0	22.62	22.63	22.61			
10	HQAM	1	0	22.56	22.62	22.53			
10	HQAM	1	25	22.62	22.45	22.60	23.5	0	
10	HQAM	1	49	22.48	22.55	22.46			
10	HQAM	25	0	22.45	22.48	22.49			
10	HQAM	25	12	22.59	22.59	22.62	23.5	0	
10	HQAM	25	25	22.65	22.61	22.64			
10	HQAM	50	0	22.59	22.55	22.56			
10	HQAM	1	0	22.55	22.62	22.55			
10	HQAM	1	25	22.62	22.47	22.60	23.5	0	
10	HQAM	1	49	22.46	22.53	22.44			
10	HQAM	25	0	21.55	21.51	21.44			
10	HQAM	25	12	21.46	21.50	21.74	23	0.5	
10	HQAM	25	25	21.50	21.73	21.54			
10	HQAM	50	0	21.61	21.49	21.54			
10	SSQAM	1	0	20.30	20.35	20.40			
10	SSQAM	1	25	20.27	20.35	20.42	22	1.5	
10	SSQAM	1	49	20.32	20.38	20.24			
10	SSQAM	25	0	20.42	20.46	20.46			
10	SSQAM	25	12	20.52	20.51	20.65	22	1.5	
10	SSQAM	25	25	20.45	20.84	20.52			
10	SSQAM	50	0	20.35	20.37	20.40			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.36	22.61	22.63			
5	QPSK	1	12	22.40	22.46	22.60	23.5	0	
5	QPSK	1	24	22.44	22.45	22.60			
5	QPSK	12	0	22.44	22.49	22.52			
5	QPSK	12	7	22.59	22.59	22.63	23.5	0	
5	QPSK	12	14	22.65	22.61	22.64			
5	QPSK	25	0	22.56	22.54	22.68			
5	HQAM	1	0	22.54	22.58	22.51			
5	HQAM	1	12	22.60	22.43	22.59	23.5	0	
5	HQAM	1	24	22.61	22.53	22.43			
5	HQAM	12	0	22.53	22.42	22.43			
5	HQAM	12	7	22.64	22.54	22.43			
5	HQAM	12	14	22.52	22.59	22.43	23.5	0	
5	HQAM	25	0	22.53	22.52	22.54			
5	HQAM	25	12	22.63	22.55	22.63			
5	HQAM	25	19	22.55	22.56	22.57	23.5	0	
5	HQAM	1	12	22.37	22.41	22.57			
5	HQAM	1	24	22.42	22.49	22.42			
5	HQAM	12	0	22.48	22.50	22.49			
5	HQAM	12	7	21.55	21.51	21.49	23	0.5	
5	HQAM	12	14	21.58	21.48	21.51			
5	HQAM	25	0	21.60	21.65	21.61			
5	SSQAM	1	0	20.31	20.20	20.35			
5	SSQAM	1	12	20.39	20.26	20.40	22	1.5	
5	SSQAM	1	24	20.42	20.33	20.43			
5	SSQAM	12	0	20.42	20.43	20.43			
5	SSQAM	12	7	20.62	20.45	20.51	22	1.5	
5	SSQAM	12	14	20.52	20.41	20.47			
5	SSQAM	25	0	20.59	20.63	20.65			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.30	22.56	22.49			
3	QPSK	1	8	22.37	22.40	22.57	23.5	0	
3	QPSK	1	16	22.40	22.51	22.41			
3	QPSK	8	0	22.39	22.45	22.48			
3	QPSK	8	8	22.53	22.56	22.59	23.5	0	
3	QPSK	8	16	22.56	22.56	22.63			
3	QPSK	16	0	22.53	22.51	22.52			
3	HQAM	1	0	22.51	22.56	22.47			
3	HQAM	1	8	22.58	22.34	22.50	23.5	0	
3	HQAM	1	16	22.50	22.50	22.41			
3	HQAM	8	0	22.38	22.38	22.37			
3	HQAM	8	8	22.46	22.38	22.43	23.5	0	
3	HQAM	8	16	22.47	22.56	22.48			
3	HQAM	16	0	22.48	22.48	22.51			
3	HQAM	16	8	22.52	22.42	22.48			
3	HQAM	16	16	22.34	22.38	22.52	23.5	0	
3	HQAM	1	14	22.40	22.44	22.36			
3	HQAM	8	4	21.47	21.44	21.50	23	0.5	
3	HQAM	8	7	21.48	21.50	21.67			
3	HQAM	16	0	21.50	21.60	21.55			
3	SSQAM	1	0	20.06	20.08	20.08			
3	SSQAM	1	8	20.14	20.26	20.24	22	1.5	
3	SSQAM	1	16	20.17	20.21	20.21			
3	SSQAM	8	0	20.37	20.32	20.28			
3	SSQAM	8	8	20.37	20.47	20.46	22	1.5	
3	SSQAM	8	16	20.53	20.47	20.47			
3	SSQAM	16	0	20.52	20.48	20.48			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.26	22.52	22.45			
1.4	QPSK	1	3	22.33	22.37	22.52			
1.4	QPSK	1	6	22.37	22.48	22.39	23.5	0	
1.4	QPSK	1	9	22.36	22.41	22.38			
1.4	QPSK	3	0	22.47	22.52	22.57			
1.4	QPSK	3	3	22.50	22.54	22.48			
1.4	QPSK	3	6	22.49	22.45	22.48	23.5	0	
1.4	HQAM	1	0	22.48	22.52	22.45			
1.4	HQAM	1	3	22.57	22.39	22.45			
1.4	HQAM	1	6	22.45	22.38	22.43	23.5	0	
1.4	HQAM	3	0	22.33	22.35	22.32			
1.4	HQAM	3	3	22.44	22.44	22.50			
1.4	HQAM	3	6	22.43	22.41	22.44			
1.4	HQAM	6	0	22.44	22.44	22.47	23.5	0	
1.4	HQAM	6	3	22.47	22.42	22.42			
1.4	HQAM	6	6	22.31	22.36	22.43			
1.4	HQAM	1	9	22.36	22.39	22.35			
1.4	HQAM	3	9	22.40	22.40	22.40	23.5	0	
1.4	HQAM	3	12	22.55	22.55	22.55			
1.4	HQAM	3	15	22.57	22.68	22.37			
1.4	HQAM	6	9	21.59	21.61	21.61	23	0.5	
1.4	SSQAM	1	0	20.23	20.23	20.21			
1.4	SSQAM	1	3	20.25	20.28	20.36			
1.4	SSQAM	1	6	20.40	20.40	20.29	22	1.5	
1.4	SSQAM	3	0	20.28	20.24	20.28			
1.4	SSQAM	3	3	20.66	20.27	20.23			
1.4	SSQAM	3	6	20.69	20.26	20.26			
1.4	SSQAM	6	0	20.51	20.28	20.47	22	1.5	



Band 25 (1900MHz Band) Ant1 DS12 Simultaneous Power

Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.24	16.27	16.19		17.1	0
20	QPSK	1	49	16.15	16.16	16.16			
20	QPSK	1	99	16.03	15.89	16.17			
20	QPSK	50	0	16.16	16.21	16.08			
20	QPSK	24	0	16.00	16.13	16.02			0
20	QPSK	50	50	16.09	16.08	16.19			
20	QPSK	100	0	16.08	16.18	16.15			
20	HQAM	1	0	16.13	16.06	16.19			
20	HQAM	1	49	16.09	16.01	16.11		17.1	0
20	HQAM	1	99	15.95	15.87	15.90			
20	HQAM	50	0	16.12	16.11	16.03			
20	HQAM	50	24	16.22	16.14	16.08		17.1	0
20	HQAM	50	50	16.10	16.19	16.01			
20	HQAM	100	0	16.15	16.09	16.19			
20	HQAM	1	0	16.18	16.16	16.13		17.1	0
20	HQAM	1	49	16.12	16.12	16.20			
20	HQAM	1	99	16.11	16.14	16.21			
20	HQAM	50	0	16.10	16.03	16.15		17.1	0
20	HQAM	50	25	16.14	15.98	16.04			
20	HQAM	100	0	16.09	16.16	16.21			
20	SSBAM	1	49	16.08	15.98	15.98		17.1	0
20	SSBAM	1	99	15.89	16.07	16.18			
20	SSBAM	50	24	16.07	16.06	16.07			
20	SSBAM	50	24	16.00	16.09	15.96		17.1	0
20	SSBAM	50	50	15.90	16.10	16.09			
20	SSBAM	100	0	16.05	16.10	16.09			
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.04	16.23	15.88		17.1	0
15	QPSK	1	37	16.13	16.08	15.94			
15	QPSK	1	74	15.89	15.84	16.17			
15	QPSK	36	0	16.04	16.22	15.86			
15	QPSK	36	20	15.99	16.04	15.94		17.1	0
15	QPSK	36	36	15.95	16.10	16.11			
15	QPSK	75	0	15.87	16.18	16.04			
15	HQAM	1	0	16.01	15.90	16.00			
15	HQAM	1	37	15.84	16.09	16.10		17.1	0
15	HQAM	1	74	15.97	16.02	16.07			
15	HQAM	36	0	16.01	15.94	16.03			
15	HQAM	36	20	16.00	16.13	15.87		17.1	0
15	HQAM	36	39	16.04	16.00	16.07			
15	HQAM	75	0	16.04	15.88	16.19			
15	HQAM	1	0	16.22	16.14	16.05		17.1	0
15	HQAM	1	37	16.09	16.03	15.99			
15	HQAM	1	74	16.12	16.02	16.01			
15	HQAM	36	0	15.90	16.17	16.09		17.1	0
15	HQAM	36	20	16.00	16.06	16.02			
15	HQAM	36	39	16.10	16.02	15.97		17.1	0
15	HQAM	75	0	15.91	16.13	16.15			
15	SSBAM	1	49	15.87	16.07	16.07			
15	SSBAM	1	37	15.85	15.72	15.95		17.1	0
15	SSBAM	1	74	15.75	16.11	16.07			
15	SSBAM	36	0	15.83	16.04	16.01			
15	SSBAM	36	20	15.76	15.98	15.91		17.1	0
15	SSBAM	36	39	15.81	16.01	16.08			
15	SSBAM	75	0	15.96	16.07	16.05			
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.04	16.13	16.06			
10	QPSK	1	25	16.10	16.10	16.08		17.1	0
10	QPSK	1	49	15.82	15.70	16.02			
10	QPSK	25	0	16.04	16.03	16.04			
10	QPSK	25	12	16.03	15.92	15.89		17.1	0
10	QPSK	25	25	16.08	16.08	16.04			
10	QPSK	25	37	15.97	16.07	16.07			
10	HQAM	1	0	16.09	15.96	16.07			
10	HQAM	1	25	16.06	16.02	16.11		17.1	0
10	HQAM	1	49	15.77	16.04	16.07			
10	HQAM	25	0	15.97	16.00	15.98			
10	HQAM	25	12	16.11	16.10	15.85		17.1	0
10	HQAM	25	25	16.01	15.98	16.07			
10	HQAM	50	0	16.02	16.07	16.04			
10	HQAM	1	0	16.02	15.98	15.94		17.1	0
10	HQAM	1	25	15.92	16.12	16.01			
10	HQAM	1	49	15.93	15.98	16.08			
10	HQAM	25	0	16.01	16.10	16.00			
10	HQAM	25	12	16.15	16.05	15.98		17.1	0
10	HQAM	25	25	16.15	15.92	16.02			
10	HQAM	50	0	15.94	15.97	16.01			
10	SSBAM	1	25	15.77	15.97	15.95			
10	SSBAM	1	25	16.02	16.19	15.98		17.1	0
10	SSBAM	1	49	15.88	16.11	16.11			
10	SSBAM	12	0	16.01	15.77	15.95			
10	SSBAM	25	12	15.81	15.87	15.86		17.1	0
10	SSBAM	25	25	15.93	16.12	16.01			
10	SSBAM	50	0	15.97	16.09	16.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.03	16.03	16.04			
5	QPSK	1	12	16.19	16.16	16.08		17.1	0
5	QPSK	1	24	15.92	16.14	16.20			
5	QPSK	12	0	16.17	16.07	16.18			
5	QPSK	12	7	15.92	16.08	15.96			
5	QPSK	12	13	16.03	15.89	16.18			
5	QPSK	25	0	16.06	15.98	16.02			
5	HQAM	1	0	16.12	16.17	16.12		17.1	0
5	HQAM	1	12	16.08	16.02	16.14			
5	HQAM	1	24	15.78	16.17	16.04			
5	HQAM	12	0	16.02	16.04	15.98			
5	HQAM	12	7	16.13	15.98	15.94		17.1	0
5	HQAM	12	13	15.98	16.03	16.02			
5	HQAM	25	0	15.94	16.07	16.14			
5	HQAM	1	0	16.13	16.15	15.96		17.1	0
5	HQAM	1	12	15.96	16.03	16.17			
5	HQAM	1	24	16.01	16.07	16.00			
5	HQAM	12	0	16.13	16.13	16.06			
5	HQAM	12	7	16.18	16.02	15.94		17.1	0
5	HQAM	12	13	16.07	15.90	15.81			
5	HQAM	25	0	15.88	16.07	16.11			
5	SSBAM	1	0	15.81	15.91	15.79			
5	SSBAM	1	12	15.99	16.00	15.90		17.1	0
5	SSBAM	1	24	15.86	16.07	16.06			
5	SSBAM	12	0	15.90	16.16	15.98			
5	SSBAM	12	7	15.94	16.09	15.99		17.1	0
5	SSBAM	25	0	15.87	16.06	16.23			
5	SSBAM	50	0	15.97	16.14	16.01			
Channel									
Frequency (MHz)									
3	QPSK	1	0	15.79	16.14	16.04			
3	QPSK	1	8	15.95	16.17	16.19		17.1	0
3	QPSK	1	14	16.02	15.89	16.17			
3	QPSK	8	0	15.92	16.17	16.07			
3	QPSK	8	4	15.77	16.06	15.98		17.1	0
3	QPSK	8	7	15.85	16.07	16.15			
3	QPSK	16	0	15.97	16.08	16.07			
3	HQAM	1	0	16.08	15.84	15.99			
3	HQAM	1	8	15.92	16.08	15.97		17.1	0
3	HQAM	1	14	15.99	16.05	15.96			
3	HQAM	8	0	15.91	16.09	16.04			
3	HQAM	8	4	16.00	16.16	16.03		17.1	0
3	HQAM	16	0	15.98	16.14	16.06			
3	HQAM	1	0	16.05	16.14	15.99			
3	HQAM	1	8	16.11	15.94	16.13		17.1	0
3	HQAM	1	14	15.87	16.09	16.03			
3	HQAM	8	0	16.01	16.14	15.94			
3	HQAM	8	4	16.15	15.91	15.91		17.1	0
3	HQAM	8	7	16.09	16.04	15.98			
3	SSBAM	1	0	16.03	16.08	15.98			
3	SSBAM	1	8	16.08	16.01	15.87		17.1	0
3	SSBAM	8	0	15.89	16.05	16.01			
3	SSBAM	8	7	15.98	16.05	16.05			
3	SSBAM	16	0	15.84	16.15	16.08			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	15.92	16.20	15.89			
1.4	QPSK	1	3	15.91	16.00	16.14		17.1	0
1.4	QPSK	1	3	16.04	16.01	16.02			
1.4	QPSK	3	0	15.91	16.21	15.87			
1.4	QPSK	3	1	15.79	16.08	16.06			
1.4	QPSK	3	3	16.10	16.12	16.20		17.1	0
1.4	QPSK	3	7	15.98	15.95	16.07			
1.4	HQAM	1	0	15.99	16.83	16.21			
1.4	HQAM	1	3	16.17	16.07	16.05			
1.4	HQAM	1	3	16.02	16.17	16.05			
1.4	HQAM	3	0	15.99	16.12	16.09		17.1	0
1.4	HQAM	3	3	16.14	16.06	16.07			
1.4	HQAM	3	7	16.02	16.00	16.02			
1.4	HQAM	1	0	16.13	15.97	15.98			
1.4	HQAM	1	3	16.03	16.06	16.10			
1.4	HQAM	1	3	16.11	15.97	16.01		17.1	0
1.4	HQAM	3	0	16.09	16.16	16.06			
1.4	HQAM	3	0	16.04	15.78	15.94			
1.4	HQAM	3	0	15.92	15.99	16.18		17.1	0
1.4	HQAM	3	3	16.03	16.21	16.22			
1.4	HQAM	3	3	16.11	15.89	15.89			
1.4	HQAM	3	3	16.05	16.12	16.05			
1.4	HQAM	3	3	16.06	15.98	15.97			
1.4	HQAM	3	3	16.08	16.15	16.23		17.1	0



Band 38(only on channel required) Ant1 DS12 Power															
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)							
Channel Frequency [MHz]															
37850 38000 38150															
2500 2500 2500															
20	QPSK	1	0	17.59	17.91	17.82	18.5	0							
20	QPSK	1	49	17.60	17.57	17.85									
20	QPSK	1	99	17.60	17.75	17.84									
20	QPSK	50	0	17.54	17.83	17.94	18.5	0							
20	QPSK	50	24	17.72	17.51	17.63									
20	QPSK	50	50	17.67	17.58	17.86									
20	QPSK	100	0	17.63	17.57	17.62	18.5	0							
20	16QAM	1	0	17.58	17.69	17.46									
20	16QAM	1	49	17.70	17.62	17.71									
20	16QAM	1	99	17.60	17.66	17.46	18.5	0							
20	16QAM	50	0	17.64	17.52	17.73									
20	16QAM	50	24	17.66	17.54	17.64									
20	16QAM	50	50	17.67	17.61	17.63	18.5	0							
20	16QAM	100	0	17.79	17.58	17.65									
20	64QAM	1	0	17.59	17.55	17.43									
20	64QAM	1	49	17.71	17.43	17.78	18.5	0							
20	64QAM	1	99	17.68	17.65	17.55									
20	64QAM	50	0	17.71	17.49	17.49									
20	64QAM	50	24	17.55	17.80	17.63	18.5	0							
20	64QAM	50	50	17.74	17.76	17.71									
20	64QAM	100	0	17.74	17.46	17.57									
20	256QAM	1	0	17.63	17.27	17.43	18.5	0							
20	256QAM	1	49	17.60	17.40	17.63									
20	256QAM	1	99	17.64	17.35	17.53									
20	256QAM	50	0	17.66	17.66	17.55	18.5	0							
20	256QAM	50	24	17.49	17.62	17.58									
20	256QAM	50	50	17.81	17.66	17.53									
20	256QAM	100	0	17.53	17.66	17.54									
Channel Frequency [MHz]															
37850 38000 38013															
2500 2500 2500															
15	QPSK	1	0	17.61	17.79	17.70	18.5	0							
15	QPSK	1	37	17.57	17.38	17.66									
15	QPSK	1	74	17.43	17.84	17.46									
15	QPSK	36	0	17.55	17.69	17.68	18.5	0							
15	QPSK	36	20	17.62	17.42	17.52									
15	QPSK	36	39	17.72	17.65	17.42									
15	QPSK	75	0	17.58	17.80	17.53	18.5	0							
15	16QAM	1	0	17.41	17.77	17.45									
15	16QAM	1	37	17.58	17.54	17.58									
15	16QAM	1	74	17.44	17.76	17.32	18.5	0							
15	16QAM	36	0	17.60	17.52	17.56									
15	16QAM	36	20	17.60	17.63	17.55									
15	16QAM	36	39	17.67	17.55	17.60	18.5	0							
15	16QAM	75	0	17.66	17.58	17.64									
15	64QAM	1	0	17.62	17.43	17.42									
15	64QAM	1	37	17.62	17.41	17.78	18.5	0							
15	64QAM	1	74	17.64	17.68	17.58									
15	64QAM	36	0	17.59	17.56	17.35									
15	64QAM	36	20	17.60	17.63	17.56	18.5	0							
15	64QAM	36	39	17.71	17.74	17.64									
15	64QAM	75	0	17.65	17.32	17.45									
15	256QAM	1	0	17.47	17.29	17.21	18.5	0							
15	256QAM	1	37	17.46	17.27	17.54									
15	256QAM	1	74	17.52	17.33	17.51									
15	256QAM	36	0	17.71	17.35	17.38	18.5	0							
15	256QAM	36	20	17.65	17.51	17.60									
15	256QAM	36	39	17.63	17.49	17.62									
15	256QAM	75	0	17.46	17.64	17.37									
Channel Frequency [MHz]															
37850 38000 38025															
2500 2500 2500															
10	QPSK	1	0	17.57	17.69	17.68	18.5	0							
10	QPSK	1	25	17.44	17.63	17.59									
10	QPSK	1	49	17.42	17.76	17.50									
10	QPSK	25	0	17.51	17.69	17.67	18.5	0							
10	QPSK	25	12	17.61	17.53	17.71									
10	QPSK	25	25	17.53	17.56	17.47									
10	QPSK	50	0	17.68	17.59	17.67	18.5	0							
10	16QAM	1	0	17.68	17.66	17.33									
10	16QAM	1	25	17.74	17.51	17.72									
10	16QAM	1	49	17.42	17.72	17.47	18.5	0							
10	16QAM	25	0	17.50	17.46	17.40									
10	16QAM	25	12	17.57	17.49	17.45									
10	16QAM	25	25	17.64	17.68	17.68	18.5	0							
10	16QAM	50	0	17.63	17.50	17.71									
10	64QAM	1	0	17.68	17.61	17.33									
10	64QAM	1	25	17.76	17.53	17.71	18.5	0							
10	64QAM	1	49	17.55	17.54	17.57									
10	64QAM	25	0	17.65	17.58	17.41									
10	64QAM	25	12	17.68	17.49	17.57	18.5	0							
10	64QAM	25	25	17.66	17.63	17.63									
10	64QAM	50	0	17.77	17.33	17.36									
10	256QAM	1	0	17.56	17.62	17.38	18.5	0							
10	256QAM	1	25	17.64	17.34	17.54									
10	256QAM	1	49	17.54	17.22	17.38									
10	256QAM	25	0	17.60	17.41	17.45	18.5	0							
10	256QAM	25	12	17.77	17.59	17.79									
10	256QAM	25	25	17.63	17.55	17.33									
10	256QAM	50	0	17.41	17.50	17.56									
Channel Frequency [MHz]															
37775 38000 38025															
2500 2500 2500															
5	QPSK	1	0	17.57	17.69	17.61	18.5	0							
5	QPSK	1	12	17.58	17.40	17.73									
5	QPSK	1	24	17.65	17.83	17.44									
5	QPSK	12	0	17.51	17.90	17.63	18.5	0							
5	QPSK	12	7	17.72	17.50	17.72									
5	QPSK	12	13	17.49	17.43	17.66									
5	QPSK	25	0	17.52	17.81	17.55	18.5	0							
5	16QAM	1	0	17.56	17.60	17.44									
5	16QAM	1	12	17.52	17.52	17.60									
5	16QAM	1	24	17.58	17.74	17.62	18.5	0							
5	16QAM	12	0	17.74	17.33	17.62									
5	16QAM	12	7	17.69	17.41	17.65									
5	16QAM	12	13	17.57	17.48	17.48	18.5	0							
5	16QAM	25	0	17.63	17.46	17.51									
5	64QAM	1	0	17.51	17.36	17.38									
5	64QAM	1	12	17.54	17.36	17.62	18.5	0							
5	64QAM	1	24	17.69	17.47	17.46									
5	64QAM	12	0	17.68	17.41	17.40									
5	256QAM	1	0	17.48	17.29	17.64	18.5	0							
5	256QAM	1	24	17.65	17.41	17.32									
5	256QAM	12	0	17.80	17.41	17.37									
5	256QAM	12	7	17.79	17.34	17.63	18.5	0							
5	256QAM	12	13	17.72	17.41	17.58									
5	256QAM	25	0	17.62	17.56	17.44									

Ant0 DS3 Power							
GSM850		Burst Average Power (dBm)			Frame-Average Power (dBm)		
TX Channel		128	189	251	128	189	251
Frequency (MHz)		824.2	836.4	848.8	824.2	836.4	848.8
GSM 1 Tx slot		32.26	32.56	32.73	33.50	23.26	23.56
GPRS 1 Tx slot		32.25	32.53	32.72	33.50	23.25	23.53
GPRS 2 Tx slots		29.34	29.23	29.27	30.00	23.34	23.23
GPRS 3 Tx slots		28.47	28.28	28.08	29.00	24.21	24.02
GPRS 4 Tx slots		26.92	26.73	26.48	27.50	23.92	23.73
EDGE 1 Tx slot		25.70	25.64	25.69	27.00	16.70	16.64
EDGE 2 Tx slots		23.92	23.95	24.02	25.00	17.92	17.95
EDGE 3 Tx slots		22.77	22.75	22.77	24.00	18.51	18.49
EDGE 4 Tx slots		20.69	20.72	20.73	22.00	17.69	17.72

Ant0 DS3 Power							
GSM1900		Burst Average Power (dBm)			Frame-Average Power (dBm)		
TX Channel		512	661	810	512	661	810
Frequency (MHz)		1850.2	1880	1909.8	1850.2	1880	1909.8
GSM 1 Tx slot		27.01	26.84	27.01	27.70	18.01	17.84
GPRS 1 Tx slot		27.03	26.90	27.23	27.70	18.03	17.90
GPRS 2 Tx slots		23.84	24.00	23.72	24.70	17.84	18.00
GPRS 3 Tx slots		20.96	21.00	20.82	21.90	16.70	16.74
GPRS 4 Tx slots		20.22	20.24	20.11	21.70	17.22	17.24
EDGE 1 Tx slot		25.11	25.03	25.21	26.50	16.11	16.03
EDGE 2 Tx slots		23.59	23.50	23.57	24.50	17.59	17.50
EDGE 3 Tx slots		21.06	21.07	21.05	21.90	16.80	16.81
EDGE 4 Tx slots		20.04	20.01	20.10	21.00	17.04	17.01

Ant0 DS3 Power													
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
Tx Channel	Rx Channel	9262	9400	9538		1312	1413	1513		4132	4402	4233	
Frequency (MHz)		1652.4	1680	1607.6	1537	1638	1738	1724.4	1752.4	826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.16	18.03	18.19	19.60	18.27	18.32	18.13	19.20	23.38	23.41	23.35	
3GPP Rel 99	RMC 12.2Kbps	18.21	18.33	18.18	19.60	18.26	18.33	18.19	19.20	23.46	23.59	23.54	
3GPP Rel 6	HSDPA Subtest-1	17.23	17.25	17.35	18.60	17.47	17.59	17.43	19.20	22.61	22.63	22.63	
3GPP Rel 6	HSDPA Subtest-2	17.24	17.22	17.33	18.60	17.44	17.31	17.42	19.20	22.13	22.15	22.13	
3GPP Rel 6	HSDPA Subtest-3	16.74	16.75	16.85	18.10	16.95	17.17	16.95	18.70	22.08	22.16	22.14	
3GPP Rel 6	HSDPA Subtest-4	16.76	16.71	16.83	18.10	16.96	17.11	16.94	18.70	22.32	22.48	22.56	
3GPP Rel 8	DC-HSDPA Subtest-1	17.13	16.93	17.06	18.60	17.39	17.44	17.33	19.20	22.31	22.47	22.33	
3GPP Rel 8	DC-HSDPA Subtest-2	17.15	17.03	17.13	18.60	17.36	17.38	17.33	19.20	22.01	22.04	21.92	
3GPP Rel 8	DC-HSDPA Subtest-3	16.52	16.61	16.71	18.10	16.78	16.91	16.75	18.70	21.80	21.94	21.99	
3GPP Rel 8	DC-HSDPA Subtest-4	16.54	16.53	16.58	18.10	16.77	17.02	16.74	18.70	22.60	22.56	22.62	
3GPP Rel 6	HSUPA Subtest-1	17.23	17.18	17.30	18.60	17.46	17.58	17.44	19.20	20.59	20.58	20.57	
3GPP Rel 6	HSUPA Subtest-2	15.22	15.21	15.26	16.60	15.48	15.59	15.42	17.20	21.64	21.53	21.55	
3GPP Rel 6	HSUPA Subtest-3	16.22	16.13	16.21	17.60	16.45	16.58	16.47	18.20	20.65	20.49	20.61	
3GPP Rel 6	HSUPA Subtest-4	15.21	15.18	15.34	16.60	15.51	15.68	15.46	17.20	20.64	20.51	20.60	
3GPP Rel 6	HSUPA Subtest-5	17.30	17.32	17.40	18.60	17.46	17.57	17.50	19.20	22.64	22.51	22.60	



Band 2 Ant0 DS3 Power													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Intvl (dB)	MPE (dB)					
Channel													
Frequency (MHz)													
20	QPSK	1	0	18.09	18.20	18.19			10.4	0			
20	QPSK	1	49	18.07	18.18	18.18							
20	QPSK	1	99	18.03	18.01	18.21			10.4	0			
20	QPSK	50	0	17.86	17.86	17.83							
20	QPSK	24	0	17.85	17.81	17.82			10.4	0			
20	QPSK	50	50	17.83	17.82	17.86							
20	QPSK	100	0	17.84	17.97	17.82			10.4	0			
20	QPSK	150	0	17.85	17.79	17.86							
20	HQAM	1	49	17.93	17.76	17.86			10.4	0			
20	HQAM	50	0	17.88	17.82	17.87							
20	HQAM	50	24	17.89	17.88	17.91			10.4	0			
20	HQAM	50	50	17.87	17.83	17.86							
20	HQAM	100	0	17.92	17.89	17.89			10.4	0			
20	HQAM	1	0	17.94	18.00	17.90							
20	HQAM	1	49	17.88	18.07	17.90			10.4	0			
20	HQAM	50	0	17.87	17.81	17.91							
20	HQAM	50	24	17.90	17.87	17.93			10.4	0			
20	HQAM	50	50	17.91	17.92	17.79							
20	HQAM	100	0	17.89	17.81	17.88			10.4	0			
20	HQAM	1	0	17.94	17.99	17.90							
20	256QAM	1	99	17.94	17.86	18.01			10.4	0			
20	256QAM	1	49	17.95	17.76	17.87							
20	256QAM	50	24	17.91	17.85	17.96			10.4	0			
20	256QAM	50	50	17.96	17.80	17.94							
20	256QAM	100	0	17.92	17.80	17.96							
Channel													
Frequency (MHz)													
15	QPSK	1	0	18.07	18.00	18.03			10.4	0			
15	QPSK	1	0	18.10	18.24	18.19							
15	QPSK	1	37	18.11	18.22	18.19			10.4	0			
15	QPSK	1	74	18.05	18.03	18.24							
15	QPSK	36	0	17.84	17.88	17.86			10.4	0			
15	QPSK	36	20	17.98	17.92	17.94							
15	QPSK	36	36	17.87	17.83	17.94			10.4	0			
15	QPSK	75	0	17.86	17.89	17.82							
15	HQAM	1	49	17.89	17.81	17.88			10.4	0			
15	HQAM	1	37	17.92	17.73	17.87							
15	HQAM	1	24	17.94	17.77	17.83			10.4	0			
15	HQAM	36	0	17.89	17.83	17.83							
15	HQAM	36	20	17.91	17.88	17.98			10.4	0			
15	HQAM	36	36	17.92	17.87	17.91							
15	HQAM	75	0	17.95	17.87	17.91			10.4	0			
15	HQAM	1	0	17.97	18.00	17.99							
15	HQAM	1	37	17.93	17.86	17.98			10.4	0			
15	HQAM	1	74	18.02	17.91	18.12							
15	HQAM	36	0	17.83	17.84	17.92			10.4	0			
15	HQAM	36	20	17.90	17.86	17.98							
15	HQAM	36	36	17.91	17.72	17.79			10.4	0			
15	HQAM	75	0	17.87	17.82	17.85							
15	HQAM	1	0	17.92	17.89	17.98			10.4	0			
15	HQAM	1	37	17.89	17.87	17.92							
15	256QAM	1	74	17.91	17.83	17.98			10.4	0			
15	256QAM	1	49	17.88	17.86	17.96							
15	256QAM	36	20	17.87	17.81	17.91			10.4	0			
15	256QAM	36	36	17.89	17.81	17.89							
15	256QAM	75	0	17.91	17.80	17.98							
Channel													
Frequency (MHz)													
10	QPSK	1	0	18.09	18.26	18.23			10.4	0			
10	QPSK	1	25	18.10	18.21	18.18							
10	QPSK	1	49	18.03	18.03	18.23			10.4	0			
10	QPSK	25	0	17.84	17.96	17.86							
10	QPSK	25	12	17.99	17.92	17.93			10.4	0			
10	QPSK	25	25	17.88	17.80	17.94							
10	QPSK	50	0	17.81	17.80	17.86			10.4	0			
10	HQAM	1	0	17.93	17.82	17.87							
10	HQAM	1	25	17.90	17.77	17.83			10.4	0			
10	HQAM	1	49	17.80	17.82	17.86							
10	HQAM	25	0	17.89	17.82	17.86			10.4	0			
10	HQAM	25	12	17.92	17.89	17.83							
10	HQAM	25	25	17.85	17.84	17.88			10.4	0			
10	HQAM	50	0	17.92	17.88	17.90							
10	HQAM	1	0	17.97	17.97	17.96			10.4	0			
10	HQAM	1	25	17.87	18.00	17.93							
10	HQAM	1	49	18.03	17.92	18.12			10.4	0			
10	HQAM	25	0	17.83	17.81	17.85							
10	HQAM	25	12	17.94	17.88	17.91			10.4	0			
10	HQAM	25	25	17.90	17.80	17.76							
10	HQAM	50	0	17.90	17.83	17.90			10.4	0			
10	HQAM	1	25	17.91	17.85	17.89							
10	256QAM	1	49	17.89	17.96	18.01			10.4	0			
10	256QAM	1	25	17.95	17.77	17.87							
10	256QAM	25	12	17.92	17.80	17.86			10.4	0			
10	256QAM	25	25	17.97	17.90	17.97							
10	256QAM	50	0	17.91	17.88	17.99							
Channel													
Frequency (MHz)													
5	QPSK	1	0	18.06	18.26	18.23			10.4	0			
5	QPSK	1	12	18.09	18.22	18.12							
5	QPSK	1	24	18.03	18.05	18.23			10.4	0			
5	QPSK	12	0	17.88	17.85	17.94							
5	QPSK	12	7	17.95	17.92	17.92			10.4	0			
5	QPSK	12	13	17.83	17.86	17.86							
5	QPSK	25	0	17.86	17.86	17.86			10.4	0			
5	HQAM	1	0	17.92	17.79	17.86							
5	HQAM	1	12	17.91	17.76	17.82			10.4	0			
5	HQAM	1	24	17.94	17.74	17.84							
5	HQAM	12	0	17.81	17.85	17.87			10.4	0			
5	HQAM	12	7	17.93	17.89	17.91							
5	HQAM	12	13	17.89	17.87	17.89			10.4	0			
5	HQAM	25	0	17.86	17.89	17.89							
5	HQAM	1	0	17.96	17.99	17.97			10.4	0			
5	HQAM	1	12	17.91	18.08	18.09							
5	HQAM	1	24	17.98	17.91	18.09			10.4	0			
5	HQAM	12	0	17.85	17.79	17.91							
5	HQAM	12	7	17.94	17.88	18.06			10.4	0			
5	HQAM	12	13	17.92	17.80	17.76							
5	HQAM	25	0	17.92	17.84	17.86			10.4	0			
5	HQAM	25	0	17.92	18.05	17.89							
5	256QAM	1	12	17.90	17.87	18.03			10.4	0			
5	256QAM	1	24	17.88	17.92	17.96							
5	256QAM	12	0	17.95	17.76	17.89			10.4	0			
5	256QAM	12	7	17.91	17.81	17.89							
5	256QAM	12	13	18.00	17.90	17.86			10.4	0			
5	256QAM	25	0	17.91	17.84	18.00							
Channel													
Frequency (MHz)													
3	QPSK	1	0	18.07	18.26	18.23			10.4	0			
3	QPSK	1	8	18.12	18.20	18.17							
3	QPSK	1	14	18.03	18.05	18.23			10.4	0			
3	QPSK	8	0	17.83	17.84	17.86							
3	QPSK	8	4	17.97	17.88	17.83			10.4	0			
3	QPSK	8	7	17.83	17.80	17.95							
3	QPSK	15	0	17.86	17.87	17.92			10.4	0			
3	HQAM	1											

Band 7 Ant0 DSIS Power										
BS Band	Modulation	RB Size	RB Offset	Power (mW)	Power (dBm)	Power (mW)	Power (dBm)	Power (mW)	Power (dBm)	Totals band (dBm)
Channel										
Frequency (MHz)		RB		Power		Power		Power		MPE (dB)
				Ch. Freq.		Ch. Freq.		Ch. Freq.		
20	SPSK	1	0	18.39	-17.71	18.67	-16.67			19.7
20	SPSK	1	49	18.52	-16.88	18.81	-15.81			
20	SPSK	50	25	18.37	-16.42	18.65	-15.65			19.7
20	SPSK	50	0	18.34	-16.54	18.66	-15.66			
20	SPSK	50	50	18.42	-16.43	18.65	-15.65			19.7
20	SPSK	100	0	18.35	-16.60	18.62	-15.62			
20	SPSK	100	50	18.31	-16.74	18.62	-15.62			19.7
20	SPSK	1	0	18.31	-16.74	18.62	-15.62			
20	16QAM	1	99	18.49	-16.50	18.53	-15.53			19.7
20	16QAM	1	0	18.34	-16.59	18.57	-15.57			
20	16QAM	50	25	18.33	-16.43	18.61	-15.61			19.7
20	16QAM	50	0	18.42	-16.46	18.65	-15.65			
20	16QAM	50	50	18.42	-16.46	18.65	-15.65			19.7
20	16QAM	100	0	18.37	-16.49	18.69	-15.69			
20	16QAM	100	50	18.34	-16.54	18.68	-15.68			19.7
20	16QAM	1	49	18.46	-16.52	18.53	-15.53			
20	16QAM	1	99	18.42	-16.46	18.65	-15.65			19.7
20	16QAM	50	24	18.39	-16.45	18.48	-15.48			
20	16QAM	50	50	18.31	-16.48	18.54	-15.54			19.7
20	16QAM	100	0	18.38	-16.38	18.59	-15.59			
20	256QAM	1	0	18.49	-16.32	18.34	-15.34			19.7
20	256QAM	1	49	18.37	-16.47	18.65	-15.65			
20	256QAM	1	99	18.34	-16.59	18.57	-15.57			19.7
20	256QAM	50	0	18.26	-16.31	18.31	-15.31			
20	256QAM	50	50	18.35	-16.45	18.41	-15.41			19.7
20	256QAM	100	0	18.28	-16.35	18.45	-15.45			
20	256QAM	100	0	18.28	-16.34	18.45	-15.45			19.7
Channel										
Frequency (MHz)		RB		Power		Power		Power		MPE (dB)
				Ch. Freq.		Ch. Freq.		Ch. Freq.		
16	SPSK	1	0	18.36	-18.03	18.43	-16.93			19.7
16	SPSK	1	37	18.48	-18.00	18.56	-16.96			
16	SPSK	1	49	18.34	-18.05	18.41	-16.91			19.7
16	SPSK	36	0	18.30	-18.08	18.36	-16.96			
16	SPSK	36	25	18.34	-18.09	18.46	-16.96			19.7
16	SPSK	36	0	18.33	-18.04	18.43	-16.93			
16	16QAM	1	0	18.31	-18.04	18.43	-16.93			19.7
16	16QAM	1	37	18.43	-18.01	18.56	-16.96			
16	16QAM	1	49	18.34	-18.05	18.41	-16.91			19.7
16	16QAM	36	0	18.30	-18.08	18.36	-16.96			
16	16QAM	36	25	18.34	-18.09	18.46	-16.96			19.7
16	16QAM	36	0	18.33	-18.04	18.43	-16.93			
16	256QAM	1	0	18.39	-18.38	18.28	-17.28			19.7
16	256QAM	1	37	18.33	-18.38	18.39	-17.39			
16	256QAM	1	49	18.34	-18.41	18.41	-17.41			19.7
16	256QAM	36	0	18.26	-18.31	18.31	-17.31			
16	256QAM	36	25	18.15	-18.38	18.34	-17.34			19.7
16	256QAM	75	0	18.22	-18.19	18.38	-17.38			
Channel										
Frequency (MHz)		RB		Power		Power		Power		MPE (dB)
				Ch. Freq.		Ch. Freq.		Ch. Freq.		
20	SPSK	1	0	18.38	-18.01	18.50	-17.00			19.7
20	SPSK	1	28	18.45	-18.07	18.58	-17.08			
20	SPSK	1	49	18.52	-18.04	18.64	-17.04			19.7
20	SPSK	25	0	18.28	-18.09	18.32	-17.02			
20	SPSK	25	14	18.35	-18.02	18.45	-17.05			19.7
20	SPSK	25	0	18.33	-18.04	18.43	-17.03			
20	SPSK	50	0	18.32	-18.11	18.44	-17.04			19.7
20	16QAM	1	0	18.23	-18.29	18.38	-17.28			
20	16QAM	1	49	18.40	-18.02	18.48	-17.02			19.7
20	16QAM	1	49	18.47	-18.05	18.50	-17.05			
20	16QAM	25	0	18.24	-18.23	18.32	-17.22			19.7
20	16QAM	25	25	18.36	-18.36	18.46	-17.46			
20	16QAM	25	0	18.36	-18.41	18.41	-17.41			19.7
20	16QAM	50	0	18.32	-18.38	18.44	-17.44			
20	16QAM	50	25	18.33	-18.33	18.38	-17.38			19.7
20	16QAM	1	25	18.42	-18.42	18.41	-17.41			
20	16QAM	1	49	18.38	-18.36	18.39	-17.39			19.7
20	16QAM	25	12	18.33	-18.36	18.33	-17.33			
20	256QAM	1	0	18.42	-18.38	18.30	-17.30			19.7
20	256QAM	1	25	18.33	-18.39	18.40	-17.40			
20	256QAM	1	49	18.31	-18.43	18.47	-17.47			19.7
20	256QAM	25	0	18.21	-18.25	18.24	-17.24			
20	256QAM	25	12	18.14	-18.39	18.35	-17.35			19.7
20	256QAM	50	0	18.19	-18.18	18.38	-17.38			
Channel										
Frequency (MHz)		RB		Power		Power		Power		MPE (dB)
				Ch. Freq.		Ch. Freq.		Ch. Freq.		
5	SPSK	1	0	18.35	-18.02	18.41	-16.91			19.7
5	SPSK	1	12	18.47	-18.09	18.59	-17.09			
5	SPSK	1	49	18.52	-18.06	18.61	-17.01			19.7
5	SPSK	12	0	18.29	-18.01	18.28	-17.01			
5	SPSK	12	7	18.34	-18.38	18.48	-17.48			19.7
5	SPSK	12	15	18.33	-18.39	18.47	-17.47			
5	SPSK	12	18	18.28	-18.33	18.44	-17.44			19.7
5	16QAM	1	0	18.23	-18.29	18.38	-17.28			
5	16QAM	1	12	18.41	-18.49	18.45	-17.45			19.7
5	16QAM	1	49	18.48	-18.44	18.53	-17.43			
5	16QAM	12	0	18.26	-18.24	18.34	-17.34			19.7
5	16QAM	12	7	18.27	-18.31	18.47	-17.47			
5	16QAM	12	12	18.36	-18.40	18.46	-17.46			19.7
5	16QAM	25	0	18.31	-18.37	18.43	-17.43			
5	16QAM	25	7	18.27	-18.37	18.37	-17.37			19.7
5	16QAM	1	12	18.42	-18.41	18.49	-17.49			
5	16QAM	1	24	18.37	-18.35	18.29	-17.29			19.7
5	16QAM	12	0	18.33	-18.36	18.36	-17.36			
5	256QAM	12	19	18.25	-18.41	18.47	-17.47			19.7
5	256QAM	25	0	18.22	-18.40	18.38	-17.38			
5	256QAM	1	0	18.42	-18.38	18.30	-17.30			19.7
5	256QAM	1	12	18.31	-18.38	18.41	-17.41			
5	256QAM	24	0	18.22	-18.42	18.37	-17.37			19.7
5	256QAM	12	7	18.14	-18.33	18.36	-17.36			
5	256QAM	25	0	18.20	-18.30	18.39	-17.39			19.7

Band 2 Ant0 DS35 Power										
RF Band	Modulation	RB Size	RB Count	Power Channel	Power Ch/Freq	Power Freq	Power Freq	Time-to-Acq (s)	MPE (dB)	
Channel										
Frequency (MHz)										
10	QPSK	1	8	22.68	22.93	22.76	22.76	24	0	
10	QPSK	1	26	22.88	22.91	22.81	22.81			
10	QPSK	1	49	22.88	22.79	22.84	22.79			
10	QPSK	1	85	22.89	22.92	22.86	22.86			
10	QPSK	25	12	22.90	22.91	22.83	22.83	24	0	
10	QPSK	25	49	22.90	22.88	22.88	22.88			
10	QPSK	25	85	22.79	22.91	22.79	22.79			
10	QPSK	50	8	22.79	22.91	22.79	22.79			
10	HQPSK	1	8	22.66	22.83	22.70	22.70	24	0	
10	HQPSK	1	26	22.78	22.88	22.88	22.88			
10	HQPSK	1	49	22.78	22.88	22.88	22.88			
10	HQPSK	1	85	22.78	22.88	22.88	22.88			
10	HQPSK	1	49	22.82	22.77	22.79	22.79	24	0	
10	HQPSK	25	8	22.83	22.70	22.81	22.81			
10	HQPSK	25	49	22.87	22.85	22.86	22.86			
10	HQPSK	25	85	22.88	22.82	22.85	22.85			
10	HQPSK	50	8	22.76	22.89	22.88	22.88	24	0	
10	HQPSK	50	8	22.76	22.89	22.88	22.88			
10	HQPSK	50	8	22.76	22.89	22.88	22.88			
10	HQPSK	50	8	22.76	22.89	22.88	22.88			
10	HQPSK	1	26	22.84	22.81	22.72	22.72	24	0	
10	HQPSK	1	49	22.77	22.77	22.79	22.79			
10	HQPSK	1	85	22.72	22.72	22.81	22.81			
10	HQPSK	25	12	22.80	22.77	22.79	22.79			
10	HQPSK	25	26	22.81	22.79	22.82	22.82	24	0	
10	HQPSK	25	49	22.87	22.85	22.86	22.86			
10	HQPSK	25	85	22.88	22.82	22.85	22.85			
10	HQPSK	50	8	19.17	19.41	19.41	19.41			
10	256QAM	1	26	18.88	19.28	19.22	19.22	20	4	
10	256QAM	1	49	19.28	19.28	19.28	19.28			
10	256QAM	1	85	19.46	19.46	19.46	19.46			
10	256QAM	25	12	18.87	19.50	19.40	19.40			
10	256QAM	25	49	19.17	19.39	19.39	19.39	20	4	
10	256QAM	25	85	19.22	19.02	19.02	19.02			
10	256QAM	50	8	19.22	19.02	19.02	19.02			
10	256QAM	50	8	19.22	19.02	19.02	19.02			
Channel										
Frequency (MHz)										
5	QPSK	1	8	22.68	22.83	22.74	22.74	24	0	
5	QPSK	1	12	22.82	22.84	22.79	22.79			
5	QPSK	1	26	22.87	22.87	22.87	22.87			
5	QPSK	12	8	22.87	22.85	22.77	22.77			
5	QPSK	12	12	22.88	22.83	22.75	22.75	24	0	
5	QPSK	12	26	22.81	22.85	22.77	22.77			
5	QPSK	12	85	22.83	22.83	22.74	22.74			
5	QPSK	25	8	22.70	22.85	22.74	22.74			
5	HQPSK	1	8	22.60	22.74	22.67	22.67	24	0	
5	HQPSK	1	26	22.68	22.84	22.84	22.84			
5	HQPSK	1	49	22.68	22.84	22.84	22.84			
5	HQPSK	1	85	22.68	22.84	22.84	22.84			
5	HQPSK	1	24	22.76	22.74	22.73	22.73	24	0	
5	HQPSK	12	8	22.76	22.85	22.88	22.88			
5	HQPSK	12	26	22.81	22.83	22.83	22.83			
5	HQPSK	12	85	22.83	22.82	22.82	22.82			
5	HQPSK	25	12	22.80	22.72	22.74	22.74	24	0	
5	HQPSK	25	26	22.66	22.81	22.66	22.66			
5	HQPSK	25	49	22.68	22.88	22.68	22.68			
5	HQPSK	1	12	22.78	22.73	22.63	22.63			
5	HQPSK	1	24	22.73	22.69	22.74	22.74	24	0	
5	HQPSK	1	49	22.68	22.69	22.72	22.72			
5	HQPSK	1	85	22.68	22.69	22.72	22.72			
5	HQPSK	25	12	22.79	22.79	22.79	22.79			
5	256QAM	1	26	18.87	19.27	19.27	19.27	20	4	
5	256QAM	1	49	19.27	19.27	19.27	19.27			
5	256QAM	1	85	19.41	19.41	19.41	19.41			
5	256QAM	25	12	18.81	19.38	19.26	19.26			
5	256QAM	1	12	18.86	19.07	19.07	19.07	20	4	
5	256QAM	1	26	19.07	19.07	19.07	19.07			
5	256QAM	1	49	19.26	19.26	19.26	19.26			
5	256QAM	12	8	19.16	19.54	19.18	19.18			
5	256QAM	12	78	19.37	19.44	19.33	19.33	20	4	
5	256QAM	12	78	19.37	19.44	19.33	19.33			
5	256QAM	12	78	19.37	19.44	19.33	19.33			
5	256QAM	25	12	19.17	19.76	19.16	19.16			
Channel										
Frequency (MHz)										
3	QPSK	1	8	22.60	22.84	22.72	22.72	24	0	
3	QPSK	1	8	22.89	22.88	22.77	22.77			
3	QPSK	1	12	22.76	22.77	22.78	22.78			
3	QPSK	1	26	22.83	22.78	22.80	22.80			
3	QPSK	8	8	22.82	22.80	22.79	22.79	24	0	
3	QPSK	8	8	22.82	22.79	22.80	22.80			
3	QPSK	16	8	22.71	22.80	22.70	22.70			
3	HQPSK	1	8	22.64	22.81	22.72	22.72			
3	HQPSK	1	12	22.78	22.78	22.78	22.78	24	0	
3	HQPSK	1	14	22.82	22.75	22.80	22.80			
3	HQPSK	8	8	22.68	22.79	22.80	22.80			
3	HQPSK	8	8	22.68	22.79	22.80	22.80			
3	HQPSK	16	8	22.72	22.76	22.87	22.87	24	0	
3	HQPSK	16	8	22.72	22.76	22.87	22.87			
3	HQPSK	16	8	22.72	22.76	22.87	22.87			
3	HQPSK	16	8	22.72	22.76	22.87	22.87			
3	HQPSK	1	14	22.73	22.75	22.86	22.86	24	0	
3	HQPSK	1	14	22.73	22.75	22.86	22.86			
3	HQPSK	1	14	22.73	22.75	22.86	22.86			
3	HQPSK	1	14	22.73	22.75	22.86	22.86			
3	HQPSK	8	8	22.72	22.87	22.74	22.74	24	0	
3	HQPSK	8	7	22.75	22.74	22.87	22.87			
3	HQPSK	8	7	22.75	22.74	22.87	22.87			
3	HQPSK	8	7	22.75	22.74	22.87	22.87			
3	256QAM	1	8	19.18	19.08	19.21	19.21	20	4	
3	256QAM	1	8	18.81	18.99	19.17	19.17			
3	256QAM	1	8	18.81	18.99	19.17	19.17			
3	256QAM	1	8	18.81	18.99	19.17	19.17			
3	256QAM	8	8	19.47	19.35	19.35	19.35	20	4	
3	256QAM	8	8	19.44	19.44	19.43	19.43			
3	256QAM	8	8	19.44	19.44	19.43	19.43			
3	256QAM	8	8	19.44	19.44	19.43	19.43			
3	256QAM	16	8	19.20	19.70	19.18	19.18	20	4	
3	256QAM	16	8	19.20	19.70	19.18	19.18			
3	256QAM	16	8	19.20	19.70	19.18	19.18			
3	256QAM	16	8	19.20	19.70	19.18	19.18			
Channel										
Frequency (MHz)										
14	QPSK	1	8	22.58	22.94	22.70	22.70	24	0	
14	QPSK	1	8	22.76	22.81	22.70	22.70			
14	QPSK	1	8	22.72	22.74	22.77	22.77			
14	QPSK	1	8	22.82	22.68	22.78	22.78			
14	QPSK	3	8	22.77	22.82	22.74	22.74	24	0	
14	QPSK	3	8	22.80	22.77	22.77	22.77			
14	QPSK	3	8	22.78	22.88	22.78	22.78			
14	QPSK	3	8	22.82	22.75	22.80	22.80			
14	HQPSK	1	8	22.62	22.75	22.66	22.66	24	0	
14	HQPSK	1	8	22.76	22.76	22.67	22.67			
14	HQPSK	1	8	22.71	22.76	22.67	22.67			
14	HQPSK	1	8	22.80	22.68	22.80	22.80			
14	HQPSK	3	8	22.72	22.72	22.79	22.79	24	0	
14	HQPSK	3	8	22.72	22.72	22.79	22.79			
14	HQPSK	3	8	22.72	22.72	22.79	22.79			
14	HQPSK	3	8	22.72	22.72	22.79	22.79			
14	HQPSK	1	16	19.18	19.23	19.08	19.08	24	0	
14	256QAM	1	3	18.97	19.02	19.08	19.08			
14	256QAM	1	3	18.97	19.02	19.08	19.08			
14	256QAM	1	3	18.97	19.02	19.08	19.08			
14	256QAM	3	8	19.58	19.39	19.33	19.33	20	4	
14	256QAM	3	8	19.27	19.13	19.25	19.25			
14	256QAM	3	8	19.27	19.13	19.25	19.25			
14	256QAM	3	8	19.27	19.13	19.25	19.25			
14	256QAM	6	8	19.43	19.38	19.31	19.31	20	4	
14	256QAM	6	8	19.43	19.38	19.31	19.31			
14	256QAM	6	8	19.43	19.38	19.31	19.31			
14	256QAM	6	8	19.43	19.38	19.31	19.31			

Band 13 Ant0 DS3 Power									
Ref (MHz)	Modulation	RB Size	RB Offset	Power Level (Ch. Freq)	Power Level (Ch. Freq)	Power Level (Ch. Freq)	Time Slot (RBs)	MPR (dB)	
Cluster									
Frequency (MHz)				25200					
5	QPSK	1	0	23.22	23.22	23.22	24	0	
5	QPSK	1	26	22.9	22.9	22.9			
5	QPSK	1	28	22.8	22.8	22.8			
5	QPSK	1	6	22.63	22.63	22.63	24		
5	QPSK	25	12	22.89	22.89	22.89			
5	QPSK	25	12	22.91	22.91	22.91			
5	QPSK	50	0	22.68	22.68	22.68	24		
5	QPSK	1	0	23.06	23.06	23.06			
5	QPSK	1	26	22.7	22.7	22.7	24	0	
5	QPSK	1	49	23.07	23.07	23.07			
5	QPSK	25	0	22.9	22.9	22.9			
5	QPSK	50	0	22.38	22.38	22.38	23	1	
5	QPSK	50	0	22.3	22.3	22.3			
5	QPSK	1	26	22.8	22.8	22.8	24	0	
5	QPSK	1	26	23.13	23.13	23.13			
5	QPSK	1	49	23.01	23.01	23.01			
5	QPSK	25	12	22.72	22.72	22.72	23	1	
5	QPSK	25	12	22.34	22.34	22.34			
5	QPSK	25	12	22.38	22.38	22.38			
5	QPSK	25	12	22.31	22.31	22.31			
5	QPSK	1	0	19.62	19.62	19.62	20	4	
5	QPSK	1	26	19.78	19.78	19.78			
5	QPSK	1	28	19.73	19.73	19.73			
5	QPSK	1	6	19.64	19.64	19.64	20	4	
5	QPSK	25	12	19.79	19.79	19.79			
5	QPSK	25	12	19.73	19.73	19.73			
5	QPSK	50	0	19.17	19.17	19.17	20	4	
Cluster									
Frequency (MHz)				25200					
5	QPSK	1	0	22.77	22.77	22.77	24	0	
5	QPSK	1	12	22.75	22.81	22.87			
5	QPSK	1	24	22.75	22.83	22.87	24	0	
5	QPSK	1	12	22.69	22.69	22.69			
5	QPSK	12	7	22.83	22.74	22.81	24	0	
5	QPSK	1	12	22.83	22.83	22.83			
5	QPSK	0	0	22.78	22.73	22.69			
5	QPSK	1	0	23.12	23.14	23.20	24	0	
5	QPSK	1	12	23.21	23.07	23.20			
5	QPSK	1	24	23.21	23.07	23.20	24	0	
5	QPSK	12	0	22.21	22.17	22.48			
5	QPSK	12	0	22.18	22.18	22.18	23	1	
5	QPSK	25	13	22.14	22.40	22.48			
5	QPSK	25	0	22.17	22.26	22.27			
5	QPSK	1	12	22.85	22.85	22.85	24	0	
5	QPSK	1	12	23.03	23.00	23.00			
5	QPSK	1	24	22.91	23.02	23.27	24	0	
5	QPSK	1	24	22.89	22.90	22.91			
5	QPSK	12	7	22.18	22.30	22.37	23	1	
5	QPSK	12	13	22.18	22.38	22.10			
5	QPSK	25	0	22.19	22.31	22.26			
5	QPSK	25	0	19.16	19.13	19.16	20	4	
5	QPSK	1	12	19.19	19.31	19.24			
5	QPSK	12	14	19.25	19.27	19.24			
5	QPSK	12	14	19.17	19.14	19.16			
5	QPSK	12	7	19.28	19.24	19.30	20	4	
5	QPSK	12	13	19.29	19.17	19.37			
5	QPSK	25	0	19.21	19.21	19.21			

Band 17 Ant0 DS35 Power									
RF BWH	Modulation	RB Size	RB Count	Power Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7 Ch8 Ch9 Ch10 Ch11 Ch12 Ch13 Ch14 Ch15 Ch16 Ch17 Ch18 Ch19 Ch20 Ch21 Ch22 Ch23 Ch24 Ch25 Ch26 Ch27 Ch28 Ch29 Ch30 Ch31 Ch32 Ch33 Ch34 Ch35 Ch36 Ch37 Ch38 Ch39 Ch40 Ch41 Ch42 Ch43 Ch44 Ch45 Ch46 Ch47 Ch48 Ch49 Ch50 Ch51 Ch52 Ch53 Ch54 Ch55 Ch56 Ch57 Ch58 Ch59 Ch60 Ch61 Ch62 Ch63 Ch64 Ch65 Ch66 Ch67 Ch68 Ch69 Ch70 Ch71 Ch72 Ch73 Ch74 Ch75 Ch76 Ch77 Ch78 Ch79 Ch80 Ch81 Ch82 Ch83 Ch84 Ch85 Ch86 Ch87 Ch88 Ch89 Ch90 Ch91 Ch92 Ch93 Ch94 Ch95 Ch96 Ch97 Ch98 Ch99 Ch100	Power Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7 Ch8 Ch9 Ch10 Ch11 Ch12 Ch13 Ch14 Ch15 Ch16 Ch17 Ch18 Ch19 Ch20 Ch21 Ch22 Ch23 Ch24 Ch25 Ch26 Ch27 Ch28 Ch29 Ch30 Ch31 Ch32 Ch33 Ch34 Ch35 Ch36 Ch37 Ch38 Ch39 Ch40 Ch41 Ch42 Ch43 Ch44 Ch45 Ch46 Ch47 Ch48 Ch49 Ch50 Ch51 Ch52 Ch53 Ch54 Ch55 Ch56 Ch57 Ch58 Ch59 Ch60 Ch61 Ch62 Ch63 Ch64 Ch65 Ch66 Ch67 Ch68 Ch69 Ch70 Ch71 Ch72 Ch73 Ch74 Ch75 Ch76 Ch77 Ch78 Ch79 Ch80 Ch81 Ch82 Ch83 Ch84 Ch85 Ch86 Ch87 Ch88 Ch89 Ch90 Ch91 Ch92 Ch93 Ch94 Ch95 Ch96 Ch97 Ch98 Ch99 Ch100	Power Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7 Ch8 Ch9 Ch10 Ch11 Ch12 Ch13 Ch14 Ch15 Ch16 Ch17 Ch18 Ch19 Ch20 Ch21 Ch22 Ch23 Ch24 Ch25 Ch26 Ch27 Ch28 Ch29 Ch30 Ch31 Ch32 Ch33 Ch34 Ch35 Ch36 Ch37 Ch38 Ch39 Ch40 Ch41 Ch42 Ch43 Ch44 Ch45 Ch46 Ch47 Ch48 Ch49 Ch50 Ch51 Ch52 Ch53 Ch54 Ch55 Ch56 Ch57 Ch58 Ch59 Ch60 Ch61 Ch62 Ch63 Ch64 Ch65 Ch66 Ch67 Ch68 Ch69 Ch70 Ch71 Ch72 Ch73 Ch74 Ch75 Ch76 Ch77 Ch78 Ch79 Ch80 Ch81 Ch82 Ch83 Ch84 Ch85 Ch86 Ch87 Ch88 Ch89 Ch90 Ch91 Ch92 Ch93 Ch94 Ch95 Ch96 Ch97 Ch98 Ch99 Ch100	Time Slot (dB)	MPR (dB)	
Frequency (MHz)									
10	QPSK	1	6	22.62	22.68	22.60			
10	QPSK	1	26	22.49	22.56	22.51			
10	QPSK	1	26	22.39	22.47	22.41	24		0
10	QPSK	25	6	22.52	22.76	22.63			
10	QPSK	25	12	22.50	22.54	22.62			
10	QPSK	25	12	22.51	22.52	22.61	24		0
10	QPSK	50	6	22.50	22.68	22.60			
10	QPSK	50	6	22.76	22.86	22.87			
10	QPSK	50	6	22.71	22.83	22.80	24		0
10	QPSK	1	49	22.83	22.87	22.73			
10	QPSK	1	25	22.21	22.26	22.22			
10	QPSK	1	25	22.34	22.26	22.30			
10	QPSK	25	25	22.36	22.26	22.26	24		0
10	QPSK	25	25	22.31	22.26	22.22			
10	QPSK	50	6	22.24	22.30	22.33			
10	QPSK	50	6	22.44	22.27	22.32			
10	QPSK	1	25	22.68	22.54	22.50	24		0
10	QPSK	1	49	22.64	22.31	22.26			
10	QPSK	1	25	22.68	22.47	22.37			
10	QPSK	25	12	22.33	22.19	22.35			
10	QPSK	25	25	22.30	22.26	22.23	24		0
10	QPSK	50	25	22.31	22.26	22.22			
10	QPSK	50	25	22.31	22.26	22.22			
10	QPSK	1	5	18.83	18.10	18.78			
10	QPSK	1	26	18.69	18.71	18.90			
10	QPSK	1	26	18.68	18.84	18.92	20		4
10	QPSK	25	6	18.84	18.77	18.87			
10	QPSK	25	12	19.07	18.91	18.86			
10	QPSK	25	12	18.72	18.70	18.71	20		4
10	QPSK	50	6	18.59	18.98	19.03			
Channel				29396	29397	29395			
Channel				29396	29397	29395			
5	QPSK	1	6	22.62	22.60	22.52			
5	QPSK	1	12	22.63	22.68	22.58			
5	QPSK	1	12	22.34	22.44	22.34	24		0
5	QPSK	1	26	22.64	22.56	22.50			
5	QPSK	12	7	22.66	22.63	22.52			
5	QPSK	12	7	22.67	22.61	22.52	24		0
5	QPSK	25	6	22.60	22.80	22.57			
5	QPSK	25	6	22.86	22.93	22.52			
5	QPSK	25	6	22.81	22.88	22.52	24		0
5	QPSK	1	6	22.63	22.62	22.63			
5	QPSK	1	26	22.70	22.56	22.78			
5	QPSK	1	26	22.79	22.78	22.73	24		0
5	QPSK	12	7	22.61	22.34	22.47			
5	QPSK	12	7	22.62	22.30	22.39			
5	QPSK	12	13	22.26	22.28	22.25	24		0
5	QPSK	25	6	22.36	22.23	22.28			
5	QPSK	25	6	22.37	22.20	22.29			
5	QPSK	1	12	22.56	22.58	22.59	24		0
5	QPSK	1	24	22.58	22.66	22.61			
5	QPSK	1	24	22.41	22.23	22.23			
5	QPSK	12	7	22.41	22.23	22.23	24		0
5	QPSK	12	13	22.25	22.28	22.25			
5	QPSK	25	6	22.26	22.21	22.22			
5	QPSK	25	6	22.67	18.86	18.86			
5	QPSK	1	12	18.71	18.80	19.01			
5	QPSK	1	12	18.88	18.77	18.91	20		4
5	QPSK	12	13	18.85	18.85	18.85			
5	QPSK	12	13	18.78	18.63	18.63			
5	QPSK	12	17	19.14	18.38	19.17			
5	QPSK	1	12	18.70	18.79	18.90			
5	QPSK	1	12	18.79	18.63	18.63	20		4



Band 25 Ant0 DS13 Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.21	18.33	18.32				
20	QPSK	1	49	18.16	18.25	18.27	10.4	0		
20	QPSK	1	99	18.16	18.18	18.30				
20	QPSK	50	0	18.23	18.32	18.18				
20	QPSK	24	0	18.32	18.29	18.28				
20	QPSK	50	50	18.21	18.21	18.28	10.4	0		
20	QPSK	100	0	18.22	18.28	18.18				
20	QPSK	100	0	18.22	18.11	18.09				
20	HQAM	1	49	18.17	18.19	18.23	10.4	0		
20	HQAM	1	99	18.21	18.15	18.26				
20	HQAM	50	0	18.23	18.20	18.24				
20	HQAM	50	24	18.24	18.26	18.28	10.4	0		
20	HQAM	50	50	18.21	18.17	18.15				
20	HQAM	100	0	18.21	18.18	18.20				
20	HQAM	1	0	18.04	18.15	18.15	10.4	0		
20	HQAM	1	49	18.16	18.15	18.04				
20	HQAM	50	99	18.04	18.00	18.11				
20	HQAM	50	0	18.16	18.16	18.19				
20	HQAM	1	24	18.20	18.20	18.26	10.4	0		
20	HQAM	50	25	18.18	18.17	18.26				
20	HQAM	100	0	18.25	18.21	18.21				
20	HQAM	1	49	18.07	18.08	18.07				
20	HQAM	1	49	18.07	18.08	18.16	10.4	0		
20	HQAM	1	99	17.82	17.82	18.00				
20	HQAM	50	24	18.02	18.02	18.00				
20	HQAM	50	24	18.02	18.03	18.15	10.4	0		
20	HQAM	50	50	18.13	18.08	18.15				
20	HQAM	100	0	18.15	18.08	18.15				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.07	18.00	18.07				
15	QPSK	1	0	18.19	18.31	18.30				
15	QPSK	1	37	18.27	18.22	18.31	10.4	0		
15	QPSK	1	74	18.13	18.17	18.27				
15	QPSK	36	0	18.21	18.30	18.15				
15	QPSK	36	20	18.31	18.27	18.28				
15	QPSK	36	36	18.18	18.19	18.26	10.4	0		
15	QPSK	75	0	18.20	18.26	18.16				
15	HQAM	1	0	18.20	18.08	18.08				
15	HQAM	1	37	18.16	18.17	18.22	10.4	0		
15	HQAM	36	0	18.21	18.18	18.23				
15	HQAM	36	20	18.22	18.24	18.27	10.4	0		
15	HQAM	36	36	18.19	18.16	18.19				
15	HQAM	75	0	18.19	18.16	18.19				
15	HQAM	1	0	18.03	18.14	18.14				
15	HQAM	1	37	18.14	18.15	18.21	10.4	0		
15	HQAM	1	74	18.02	17.97	18.15				
15	HQAM	36	0	18.14	18.15	18.17				
15	HQAM	36	20	18.16	18.18	18.20	10.4	0		
15	HQAM	36	36	18.17	18.16	18.24				
15	HQAM	75	0	18.18	18.18	18.14				
15	HQAM	1	0	18.05	18.11	18.11				
15	HQAM	1	37	18.24	18.20	18.28	10.4	0		
15	HQAM	1	74	18.07	18.04	18.11				
15	HQAM	36	20	18.17	18.14	18.21				
15	HQAM	36	36	18.14	18.14	18.19	10.4	0		
15	HQAM	75	0	18.20	18.14	18.22				
15	HQAM	75	0	18.17	18.14	18.22				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.09	18.31	18.31				
10	QPSK	1	25	18.27	18.22	18.30	10.4	0		
10	QPSK	1	49	18.15	18.16	18.28				
10	QPSK	25	0	18.26	18.29	18.26				
10	QPSK	25	12	18.30	18.27	18.27	10.4	0		
10	QPSK	25	25	18.18	18.19	18.27				
10	QPSK	25	37	18.20	18.21	18.28				
10	HQAM	1	0	18.21	18.00	18.08				
10	HQAM	1	25	18.15	18.18	18.21	10.4	0		
10	HQAM	1	49	18.19	18.13	18.23				
10	HQAM	25	0	18.21	18.19	18.23				
10	HQAM	25	12	18.22	18.24	18.26	10.4	0		
10	HQAM	25	12	18.14	18.15	18.15				
10	HQAM	50	0	18.19	18.16	18.18				
10	HQAM	1	0	18.01	18.12	18.14				
10	HQAM	1	25	18.16	18.14	18.21	10.4	0		
10	HQAM	1	49	18.02	17.98	18.09				
10	HQAM	25	0	18.14	18.16	18.18				
10	HQAM	25	12	18.18	18.18	18.23	10.4	0		
10	HQAM	25	25	18.16	18.16	18.26				
10	HQAM	50	0	18.18	18.16	18.15				
10	HQAM	12	0	18.12	18.12	18.15				
10	HQAM	1	25	18.23	18.21	18.30	10.4	0		
10	HQAM	1	49	18.07	18.04	18.10				
10	HQAM	12	0	18.17	18.14	18.20				
10	HQAM	25	12	18.14	18.14	18.19	10.4	0		
10	HQAM	25	25	18.19	18.14	18.22				
10	HQAM	50	0	18.17	18.21	18.14				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.19	18.31	18.31				
5	QPSK	1	12	18.26	18.22	18.31	10.4	0		
5	QPSK	1	24	18.15	18.16	18.28				
5	QPSK	12	0	18.32	18.30	18.27				
5	QPSK	12	7	18.31	18.26	18.26	10.4	0		
5	QPSK	12	13	18.19	18.19	18.25				
5	QPSK	24	0	18.21	18.26	18.16				
5	HQAM	1	0	18.20	18.00	18.08				
5	HQAM	1	12	18.15	18.17	18.22	10.4	0		
5	HQAM	1	24	18.19	18.13	18.23				
5	HQAM	12	0	18.21	18.17	18.22				
5	HQAM	12	7	18.21	18.23	18.25	10.4	0		
5	HQAM	12	13	18.14	18.15	18.12				
5	HQAM	25	0	18.18	18.16	18.18				
5	HQAM	1	0	18.02	18.13	18.12				
5	HQAM	1	12	18.13	18.13	18.22	10.4	0		
5	HQAM	1	24	18.02	17.97	18.09				
5	HQAM	12	0	18.13	18.16	18.18				
5	HQAM	12	7	18.18	18.18	18.22	10.4	0		
5	HQAM	12	13	18.16	18.15	18.25				
5	HQAM	25	0	18.17	18.16	18.14				
5	HQAM	1	0	18.12	18.15	18.24				
5	HQAM	1	12	18.24	18.21	18.29	10.4	0		
5	HQAM	1	24	18.07	18.04	18.12				
5	HQAM	12	0	18.15	18.14	18.20				
5	HQAM	12	7	18.15	18.15	18.19	10.4	0		
5	HQAM	12	13	18.19	18.13	18.21				
5	HQAM	25	0	18.19	18.21	18.15				
Channel										
Frequency (MHz)										
3	QPSK	1	0	18.19	18.31	18.31				
3	QPSK	1	8	18.27	18.23	18.29	10.4	0		
3	QPSK	1	14	18.13	18.15	18.20				
3	QPSK	8	0	18.22	18.30	18.17				
3	QPSK	8	4	18.20	18.26	18.27	10.4	0		
3	QPSK	8	7	18.20	18.19	18.26				
3	QPSK	15	0	18.21	18.26	18.15				
3	HQAM	1	0	18.21	18.09	18.07				
3	HQAM	1	8	18.16	18.17	18.20	10.4	0		
3	HQAM	1	14	18.18	18.12	18.24				
3	HQAM	8	0	18.21	18.18	18.21				
3	HQAM	8	4	18.22	18.25	18.25	10.4	0		
3	HQAM	15	0	18.15	18.14	18.10				
3	HQAM	1	0	18.02	18.14	18.13				
3	HQAM	1	8	18.14	18.13	18.22	10.4	0		
3	HQAM	1	14	18.02	17.98	18.08				
3	HQAM	8	0	18.14	18.16	18.17				
3	HQAM	8	7	18.18	18.18	18.23	10.4	0		
3	HQAM	8	7	18.16	18.15	18.24				
3	HQAM	15	0	18.18	18.09	18.12				
3	HQAM	1	0	18.11	18.17	18.25				
3	HQAM	1	8	18.22	18.19	18.20	10.4	0		
3	HQAM	8	0	18.08	18.09	18.12				
3	HQAM	8	0	18.17	18.14	18.20				
3	HQAM	8	4	18.15	18.14	18.20	10.4	0		
3	HQAM	15	0	18.19	18.14	18.22				
3	HQAM	15	0	18.16	18.22	18.14				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	18.19	18.31	18.31				
1.4	QPSK	1	0	18.23	18.30	18.30				
1.4	QPSK	1	0	18.13	18.15	18.20	10.4	0		
1.4	QPSK	3	0	18.20	18.30	18.17				
1.4	QPSK	3	0	18.26	18.26	18.26				
1.4	QPSK	3	3	18.19	18.19	18.25	10.4	0		
1.4	QPSK	6	0	18.21	18.26	18.16	10.4	0		
1.4	HQAM	1	0	18.20	18.08	18.08				
1.4	HQAM	1	3	18.16	18.18	18.22	10.4	0		
1.4	HQAM	1	5	18.18	18.13	18.23				
1.4	HQAM	3	0	18.22	18.29	18.25				
1.4	HQAM	3	1	18.23	18.25	18.26	10.4	0		
1.4	HQAM	3	1	18.15	18.14	18.11				
1.4	HQAM	3	1	18.02	17.97	18.11	10.4	0		



Band 38(only on channel required) Ant0 DS13 Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	20.82	21.00	20.88	22.6	0		
20	QPSK	1	49	20.98	20.97	20.87				
20	QPSK	1	99	20.93	20.89	20.86				
20	QPSK	50	0	20.81	20.97	20.92				
20	QPSK	50	24	20.83	20.91	20.91	22.8	0		
20	QPSK	50	50	20.78	20.76	20.87				
20	QPSK	100	0	20.82	20.95	20.78				
20	16QAM	1	0	20.79	20.82	20.85				
20	16QAM	1	49	20.86	20.74	20.80	22.6	0		
20	16QAM	1	99	20.91	20.86	20.76				
20	16QAM	50	0	20.80	20.83	20.87				
20	16QAM	50	24	20.70	20.93	20.84				
20	16QAM	50	50	20.85	20.89	20.73	22.6	0		
20	16QAM	100	0	20.81	20.84	20.87				
20	64QAM	1	0	20.76	20.82	20.87				
20	64QAM	1	49	20.73	20.68	20.86				
20	64QAM	1	99	20.92	20.88	20.81	22.6	0		
20	64QAM	50	0	20.79	20.82	20.89				
20	64QAM	50	24	20.83	20.84	20.85				
20	64QAM	50	50	20.84	20.76	20.82				
20	64QAM	100	0	20.81	20.83	20.80	22	0.6		
20	256QAM	1	0	20.81	20.84	20.82				
20	256QAM	1	49	20.83	20.87	20.77				
20	256QAM	1	99	20.69	20.75	20.76				
20	256QAM	50	0	20.74	20.87	20.76	22	0.6		
20	256QAM	50	24	20.82	20.86	20.81				
20	256QAM	50	50	20.77	20.66	20.69				
20	256QAM	100	0	20.82	20.68	20.66				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	20.73	20.89	20.81	22.6	0		
15	QPSK	1	37	20.83	20.87	20.81				
15	QPSK	1	74	20.86	20.75	20.84				
15	QPSK	36	0	20.66	20.82	20.77				
15	QPSK	36	20	20.74	20.75	20.85	22.6	0		
15	QPSK	36	39	20.72	20.71	20.75				
15	QPSK	75	0	20.79	20.88	20.64				
15	16QAM	1	0	20.66	20.87	20.78				
15	16QAM	1	37	20.82	20.65	20.70	22.6	0		
15	16QAM	1	74	20.79	20.80	20.70				
15	16QAM	36	0	20.74	20.69	20.75				
15	16QAM	36	20	20.85	20.85	20.78				
15	16QAM	36	39	20.79	20.65	20.68	22.6	0		
15	16QAM	75	0	20.86	20.85	20.85				
15	64QAM	1	0	20.66	20.78	20.76				
15	64QAM	1	37	20.66	20.79	20.79				
15	64QAM	1	74	20.85	20.83	20.68	22.6	0		
15	64QAM	36	0	20.73	20.76	20.81				
15	64QAM	36	20	20.83	20.87	20.87				
15	64QAM	36	39	20.80	20.67	20.72				
15	64QAM	75	0	20.76	20.76	20.74	22	0.6		
15	256QAM	1	0	20.57	20.58	20.70				
15	256QAM	1	37	20.57	20.56	20.69				
15	256QAM	1	74	20.77	20.64	20.65				
15	256QAM	36	0	20.68	20.58	20.67	22	0.6		
15	256QAM	36	20	20.75	20.72	20.76				
15	256QAM	75	0	20.67	20.52	20.57				
15	256QAM	75	0	20.73	20.62	20.67				
Channel										
Frequency (MHz)				2675	2695	2615	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	20.66	20.86	20.74	22.6	0		
10	QPSK	1	25	20.83	20.84	20.82				
10	QPSK	1	49	20.89	20.76	20.87				
10	QPSK	25	0	20.66	20.89	20.86				
10	QPSK	25	12	20.74	20.75	20.86	22.6	0		
10	QPSK	25	25	20.74	20.69	20.73				
10	QPSK	50	0	20.86	20.80	20.70				
10	16QAM	1	0	20.72	20.80	20.77				
10	16QAM	1	25	20.77	20.83	20.74	22.6	0		
10	16QAM	1	49	20.81	20.74	20.69				
10	16QAM	25	0	20.69	20.74	20.77				
10	16QAM	25	12	20.74	20.84	20.78				
10	16QAM	50	0	20.77	20.85	20.77	22.6	0		
10	16QAM	50	0	20.79	20.85	20.69				
10	64QAM	1	0	20.71	20.74	20.76				
10	64QAM	1	25	20.86	20.71	20.73				
10	64QAM	25	0	20.73	20.76	20.75	22.6	0		
10	64QAM	25	12	20.81	20.82	20.75				
10	64QAM	25	25	20.83	20.68	20.74				
10	64QAM	50	0	20.86	20.70	20.76				
10	256QAM	1	0	20.55	20.60	20.72	22	0.6		
10	256QAM	1	25	20.59	20.58	20.68				
10	256QAM	1	49	20.76	20.63	20.67				
10	256QAM	25	0	20.61	20.66	20.72				
10	256QAM	25	12	20.64	20.75	20.71	22	0.6		
10	256QAM	25	25	20.73	20.61	20.55				
10	256QAM	50	0	20.69	20.62	20.51				
10	256QAM	50	0	20.69	20.62	20.51				
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	20.78	20.86	20.79	22.6	0		
5	QPSK	1	12	20.91	20.92	20.79				
5	QPSK	1	24	20.85	20.83	20.85				
5	QPSK	12	0	20.77	20.90	20.87				
5	QPSK	12	7	20.74	20.84	20.81	22.6	0		
5	QPSK	12	13	20.66	20.66	20.80				
5	QPSK	25	0	20.78	20.89	20.66				
5	16QAM	1	0	20.67	20.85	20.76				
5	16QAM	1	12	20.77	20.66	20.69	22.6	0		
5	16QAM	1	24	20.75	20.71	20.70				
5	16QAM	12	0	20.67	20.71	20.76				
5	16QAM	12	7	20.69	20.80	20.77				
5	16QAM	12	13	20.76	20.77	20.62	22.6	0		
5	16QAM	25	0	20.85	20.84	20.64				
5	64QAM	1	0	20.61	20.71	20.77				
5	64QAM	1	12	20.81	20.61	20.74				
5	64QAM	1	24	20.80	20.81	20.66	22.6	0		
5	64QAM	12	0	20.65	20.76	20.75				
5	64QAM	12	7	20.84	20.80	20.72				
5	64QAM	12	13	20.84	20.66	20.72				
5	64QAM	25	0	20.86	20.75	20.67	22	0.6		
5	256QAM	1	0	20.56	20.54	20.69				
5	256QAM	1	12	20.59	20.55	20.66				
5	256QAM	1	24	20.75	20.61	20.61				
5	256QAM	12	0	20.60	20.62	20.68	22	0.6		
5	256QAM	12	7	20.53	20.71	20.66				
5	256QAM	12	13	20.71	20.61	20.64	22	0.6		
5	256QAM	25	0	20.67	20.61	20.56				

Ant1 DSG Power								
GSM850	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slot	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	26.03	26.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.48	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 DSG Power				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	23.72	23.77	23.71	25.00
3GPP Rel 99 RMC 12.2Kbps	23.78	23.79	23.75	25.00
3GPP Rel 6 HSDPA Subtest-1	22.67	22.96	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6 HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.10	22.19	22.25	23.50
3GPP Rel 6 HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6 HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6 HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	22.86	22.87	23.04	24.00



Band 2 Ant1 DS13 Power														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	19.23	19.38	19.16	20.8	0						
20	QPSK	1	49	19.32	19.21	19.28								
20	QPSK	1	99	19.12	19.21	19.26								
20	QPSK	50	0	19.19	19.31	18.99								
20	QPSK	50	24	19.02	19.11	19.08	20.6	0						
20	QPSK	50	50	19.11	19.15	19.11								
20	QPSK	100	0	19.03	19.26	18.96								
20	QPSK	100	0	19.03	19.05	18.99								
20	HQAM	1	0	19.03	18.98	18.99	20.8	0						
20	HQAM	1	49	18.86	18.90	18.88								
20	HQAM	1	99	18.87	18.78	18.80								
20	HQAM	50	0	18.95	18.92	18.95								
20	HQAM	50	24	19.06	18.98	18.96	20.6	0						
20	HQAM	50	50	19.00	18.90	18.94								
20	HQAM	100	0	19.01	18.99	18.97								
20	HQAM	1	0	19.19	19.23	19.24								
20	HQAM	36	0	18.95	18.92	18.95	19	1.6						
20	HQAM	36	20	19.01	18.97	19.00								
20	HQAM	36	20	19.03	18.94	18.98								
20	HQAM	75	0	19.05	18.90	18.97								
20	HQAM	1	0	19.15	19.06	19.10								
20	HQAM	1	49	19.13	19.08	19.10								
20	HQAM	50	99	19.02	18.90	19.00	20.6	0						
20	HQAM	50	0	19.03	18.91	18.99								
20	HQAM	50	24	19.06	18.98	18.96								
20	HQAM	50	50	19.00	18.90	18.94								
20	HQAM	100	0	19.01	18.99	18.97	20.6	0						
20	HQAM	1	0	19.19	19.23	19.24								
20	HQAM	1	49	19.13	19.08	19.10								
20	HQAM	1	99	18.83	18.71	18.83								
20	HQAM	36	36	18.16	18.23	18.26	19	1.6						
20	HQAM	50	24	18.21	18.14	18.29								
20	HQAM	50	50	18.18	18.33	18.10								
20	HQAM	100	0	18.20	18.24	18.20								
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.07	18.00	18.03	20.8	0						
15	QPSK	1	49	19.23	19.33	19.13								
15	QPSK	1	99	19.07	19.20	19.28								
15	QPSK	1	74	19.12	19.21	19.17								
15	QPSK	36	0	19.18	19.29	18.96	20.6	0						
15	QPSK	25	0	19.07	19.08	19.05								
15	QPSK	36	36	19.07	19.13	19.11								
15	QPSK	75	0	18.99	19.26	18.94								
15	HQAM	1	0	18.99	18.94	18.85	20.8	0						
15	HQAM	1	37	18.84	18.90	18.87								
15	HQAM	36	20	19.01	18.97	19.00								
15	HQAM	36	20	19.03	18.94	18.98								
15	HQAM	75	0	19.05	18.90	18.97	20.8	0						
15	HQAM	1	0	19.12	19.05	19.10								
15	HQAM	36	37	19.08	18.94	19.00								
15	HQAM	36	37	19.08	18.94	19.00								
15	HQAM	1	74	19.20	19.05	19.01	20.6	0						
15	HQAM	36	0	19.02	18.86	18.85								
15	HQAM	36	20	19.00	18.90	18.99								
15	HQAM	75	0	18.99	18.88	18.96								
15	HQAM	75	0	18.96	18.84	18.86	20.6	0						
15	HQAM	75	0	18.96	18.84	18.86								
15	HQAM	75	0	18.96	18.84	18.86								
15	HQAM	1	37	18.09	18.12	18.13								
15	HQAM	1	74	18.10	18.09	18.24	19	1.6						
15	HQAM	36	36	18.13	18.12	18.13								
15	HQAM	36	20	18.16	18.30	18.10								
15	HQAM	36	39	18.37	18.27	18.21								
15	HQAM	75	0	18.25	18.16	18.25	19	1.6						
15	HQAM	75	0	18.25	18.16	18.25								
Channel														
Frequency (MHz)														
10	QPSK	1	0	16.55	16.60	16.50	20.8	0						
10	QPSK	1	25	19.27	19.16	19.28								
10	QPSK	1	49	19.11	19.17	19.20								
10	QPSK	1	39	19.14	19.30	19.16								
10	QPSK	25	12	18.99	19.05	19.06	20.6	0						
10	QPSK	25	25	19.11	19.12	19.08								
10	QPSK	39	0	19.06	19.26	18.96								
10	HQAM	1	0	18.99	18.91	18.85								
10	HQAM	1	25	18.83	18.87	18.88	20.6	0						
10	HQAM	1	49	18.86	18.79	18.88								
10	HQAM	25	0	18.92	18.84	18.88								
10	HQAM	25	12	19.01	18.96	18.99								
10	HQAM	39	0	18.93	18.86	18.89	20.8	0						
10	HQAM	50	0	19.04	18.93	18.98								
10	HQAM	1	0	19.12	19.04	19.12								
10	HQAM	1	25	19.09	18.96	19.00								
10	HQAM	1	49	18.97	18.90	19.01	20.6	0						
10	HQAM	25	0	18.99	18.88	18.85								
10	HQAM	25	12	19.04	18.94	18.98								
10	HQAM	50	0	18.96	18.87	18.93								
10	HQAM	50	0	18.99	18.93	18.92	20.6	0						
10	HQAM	50	0	19.02	18.93	18.92								
10	HQAM	50	0	19.02	18.93	18.92								
10	HQAM	50	0	19.02	18.93	18.92								
10	HQAM	1	25	18.11	18.22	18.19	19	1.6						
10	HQAM	1	49	18.06	18.11	18.09								
10	HQAM	25	0	18.24	18.35	18.32								
10	HQAM	25	12	18.25	18.26	18.19								
10	HQAM	25	25	18.39	18.32	18.10	19	1.6						
10	HQAM	50	0	18.21	18.24	18.10								
Channel														
Frequency (MHz)														
5	QPSK	1	0	16.52	16.60	16.51	20.8	0						
5	QPSK	1	12	19.29	19.16	19.22								
5	QPSK	1	24	19.10	19.17	19.18								
5	QPSK	12	0	19.18	19.28	19.08								
5	QPSK	12	7	19.00	19.09	19.06	20.6	0						
5	QPSK	12	13	19.09	19.13	19.11								
5	QPSK	25	0	19.02	19.20	18.92								
5	HQAM	1	0	19.01	18.94	18.85								
5	HQAM	1	12	18.81	18.89	18.87	20.6	0						
5	HQAM	1	24	18.84	18.78	18.81								
5	HQAM	12	0	18.86	18.81	18.89								
5	HQAM	12	7	19.01	18.97	19.03								
5	HQAM	12	13	18.95	18.90	18.85	20.6	0						
5	HQAM	25	0	19.01	18.94	18.93								
5	HQAM	1	0	19.14	19.09	19.12								
5	HQAM	1	12	19.11	19.07	19.09								
5	HQAM	1	24	19.02	18.95	19.01	20.6	0						
5	HQAM	12	0	19.00	18.88	18.86								
5	HQAM	12	7	19.03	18.93	18.98								
5	HQAM	12	13	18.99	18.88	18.92								
5	HQAM	25	0	18.98	18.88	18.89	20.6	0						
5	HQAM	25	0	18.98	18.88	18.89								
5	HQAM	25	0	18.98	18.88	18.89								
5	HQAM	25	0	18.98	18.88	18.89								
5	HQAM	1	12	18.09	18.12	18.13	19	1.6						
5	HQAM	1	24	18.10	18.09	18.24								
5	HQAM	12	12	18.13	18.12	18.13								
5	HQAM	12	7	18.16	18.30	18.10								
5	HQAM	12	13	18.37	18.27	18.21	19	1.6						
5	HQAM	25	0	18.25	18.16	18.25								
Channel														
Frequency (MHz)														
3	QPSK	1	0	16.50	16.58	16.50	20.8	0						
3	QPSK	1	0	19.20	19.28	19.13								
3	QPSK	1	0	19.28	19.15	19.28								
3	QPSK	1	0	19.17	19.20	19.24								
3	QPSK	3	0	19.11	19.18	19.18	20.6	0						
3	QPSK	3	0	19.16	19.26	19.08								
3	QPSK	8	0	18.98	19.10	19.06								
3	QPSK	8	0	19.11	19.08	19.11								
3	QPSK	16	0	19.00	19.21	19.02	20.8	0						
3	HQAM	1	0	18.99	18.94	18.89								
3	HQAM	8	0	18.95	18.88	18.91								
3	HQAM	16	0	18.98	18.90	18.93								
3	HQAM	1	14	18.85	18.74	18.78	20.6	0						
3	HQAM	8	0	18.91	18.81	18.89								
3	HQAM	8	0	19.00	18.97	18.97								
3	HQAM	8	7	18.97	18.86	18.89								
3	HQAM	16	0	18.95	18.87	18.87	20.8	0						
3	HQAM	16	0	19.03	19.02	19.11								
3	HQAM	1	8	19.11	19.08	19.09								
3	HQAM	1	8	19.11	19.08	19.09								
3	HQAM	8	4	19.01	18.95	18.95	20.6	0						
3	HQAM	8	4	19.01	18.95	18.95								
3	HQAM	16	0	18.97	18.88	18.88								
3	HQAM	16	0	18.99	18.94	18.93								
3	HQAM	1	0	19.23	19.12	19.14	19	1.6						
3	HQAM	1	0	19.23	19.12	19.14								
3	HQAM	1	14	19.11	19.02	19.17								
3	HQAM	8	0	19.17	19.20	19.15								
3	HQAM	8	7	19.08	19.17	19.10	19	1.6						
3	HQAM	8	7	19.23	19.16	19.10								
3	HQAM	16	0	19.11	19.21	19.15								
3	HQAM	16	0	19.11	19.21	19.15								
3	QPSK	1	0	19.23	19.34	19.11	20.8	0						
1.4	QPSK	1	0	19.23	19.34	19.11								
1.4	QPSK	25	0	19.20	19.24	19.26								
1.4	QPSK	3	1	19.11	19.18	19.18								
1.4	QPSK	3	0	19.17	19.25	19.07	20.6	0						
1.4	QPSK	3	0	19.18	19.26	19.08								
1.4	QPSK	3	1	19.06	19.15	19.11								
1.4	QPSK	3	0	18.99	19.00	18.95								
1.4	HQAM	1	0	18.85	18.88	18.87	20.8	0						

Band 7 Ant1 DS3S Power													
BS Band	Modulation	RB Size	RB Offset	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Transmit band (dB)	MPE (dB)				
Channel								15.7	0				
Frequency (MHz)				20065	20100	20135	20170						
20	SPSK	1	0	19.33	19.33	19.33	19.33						
20	SPSK	1	49	18.47	18.56	18.56	18.56						
20	SPSK	1	99	18.50	18.58	18.58	18.58						
20	SPSK	50	24	19.34	19.37	19.43	19.43		15.7	0			
20	SPSK	50	74	19.31	19.35	19.41	19.41						
20	SPSK	100	0	19.29	19.33	19.45	19.45						
20	SPSK	100	49	19.21	19.27	19.37	19.37		15.7	0			
20	SPSK	100	99	19.24	19.28	19.38	19.38						
20	SPSK	1	99	19.43	19.41	19.48	19.48						
20	SPSK	50	24	19.26	19.22	19.31	19.31						
20	SPSK	50	74	19.33	19.35	19.37	19.37						
20	SPSK	50	99	19.34	19.39	19.47	19.47		15.7	0			
20	SPSK	100	0	19.29	19.36	19.45	19.45						
20	SPSK	100	49	19.21	19.24	19.32	19.32		15.7	0			
20	SPSK	100	99	19.26	19.27	19.30	19.30						
20	SPSK	1	99	19.21	19.23	19.26	19.26						
20	SPSK	50	24	19.33	19.36	19.37	19.37						
20	SPSK	50	74	19.32	19.40	19.39	19.40						
20	SPSK	50	99	19.34	19.39	19.44	19.44		15.7	0			
20	SPSK	100	0	19.31	19.38	19.44	19.44						
20	SPSK	100	49	19.21	19.28	19.35	19.35		15.7	0			
20	SPSK	100	99	19.23	19.27	19.34	19.34						
20	SPSK	1	99	19.31	19.33	19.39	19.39						
20	SPSK	50	24	19.14	19.14	19.20	19.20						
20	SPSK	50	74	19.17	19.40	19.33	19.33		15.7	0			
20	SPSK	50	99	19.17	19.39	19.33	19.33						
20	SPSK	100	0	19.24	19.20	19.38	19.38						
								Unsub- band (dB)	MPE (dB)				
Channel				20065	20100	20135	20170	15.7	0				
Frequency (MHz)				19.33	19.33	19.33	19.33						
16	SPSK	1	0	19.28	18.60	18.63	18.63						
16	SPSK	1	37	18.46	18.54	18.52	18.52		15.7	0			
16	SPSK	1	49	18.46	18.54	18.52	18.52						
16	SPSK	36	0	19.20	18.53	18.54	18.54						
16	SPSK	36	25	19.30	18.55	18.49	18.49		15.7	0			
16	SPSK	36	34	19.35	18.56	18.50	18.50						
16	SPSK	36	43	19.25	18.52	18.44	18.44						
16	SPSK	36	52	19.25	18.52	18.44	18.44						
16	SPSK	1	0	19.20	18.22	18.34	18.34						
16	SPSK	1	37	18.44	18.44	18.44	18.44		15.7	0			
16	SPSK	1	74	18.39	18.40	18.44	18.44						
16	SPSK	36	0	19.21	18.20	18.33	18.33						
16	SPSK	36	25	19.27	18.33	18.43	18.43		15.7	0			
16	SPSK	36	34	19.36	18.36	18.37	18.37						
16	SPSK	36	43	19.28	18.39	18.47	18.47						
16	SPSK	36	52	19.26	18.38	18.44	18.44						
16	SPSK	1	0	19.26	18.56	18.34	18.34						
16	SPSK	1	37	18.46	18.56	18.34	18.34		15.7	0			
16	SPSK	1	74	18.33	18.33	18.25	18.25						
16	SPSK	36	0	19.20	18.53	18.54	18.54						
16	SPSK	36	25	19.31	18.34	18.43	18.43		15.7	0			
16	SPSK	36	34	19.33	18.33	18.43	18.43						
16	SPSK	36	43	19.16	18.38	18.48	18.48						
16	SPSK	36	52	19.16	18.38	18.48	18.48						
16	SPSK	1	0	18.39	18.22	18.26	18.26						
16	SPSK	1	37	18.29	18.59	18.36	18.36		15.7	0			
16	SPSK	1	74	18.26	18.26	18.34	18.34						
16	SPSK	36	0	18.18	18.36	18.11	18.11						
16	SPSK	36	25	19.14	18.37	18.31	18.31						
16	SPSK	36	34	19.27	18.33	18.33	18.33						
16	SPSK	36	43	19.27	18.33	18.33	18.33						
16	SPSK	36	52	19.21	18.16	18.34	18.34		Unsub- band (dB)	MPE (dB)			
								15.7	0				
Channel				20065	20100	20135	20170	15.7	0				
Frequency (MHz)				19.33	19.33	19.33	19.33						
5	SPSK	1	0	19.32	18.60	18.60	18.60						
5	SPSK	1	25	18.46	18.54	18.53	18.53		15.7	0			
5	SPSK	1	49	18.46	18.54	18.53	18.53						
5	SPSK	25	0	19.21	18.55	18.55	18.55						
5	SPSK	25	14	19.31	18.33	18.40	18.40		15.7	0			
5	SPSK	25	28	19.27	18.34	18.40	18.40						
5	SPSK	50	0	19.28	18.49	18.43	18.43						
5	SPSK	1	0	19.16	18.23	18.33	18.33						
5	SPSK	1	49	19.39	18.39	18.39	18.39		15.7	0			
5	SPSK	25	0	19.24	18.20	18.28	18.28						
5	SPSK	25	14	19.31	18.32	18.42	18.42						
5	SPSK	25	28	19.31	18.35	18.47	18.47		15.7	0			
5	SPSK	50	0	19.25	18.37	18.35	18.35						
5	SPSK	50	14	19.25	18.35	18.35	18.35						
5	SPSK	1	25	18.38	18.40	18.44	18.44		15.7	0			
5	SPSK	1	49	18.33	18.36	18.25	18.25						
5	SPSK	25	0	19.24	18.24	18.24	18.24						
5	SPSK	25	12	19.30	18.36	18.39	18.39		15.7	0			
5	SPSK	25	25	19.18	18.37	18.45	18.45						
5	SPSK	50	0	19.24	18.24	18.24	18.24						
5	SPSK	1	0	19.39	18.26	18.26	18.26						
5	SPSK	1	25	19.30	18.39	18.36	18.36		15.7	0			
5	SPSK	1	49	19.30	18.39	18.36	18.36						
5	SPSK	25	0	19.20	18.23	18.13	18.13						
5	SPSK	25	12	19.14	18.38	18.31	18.31		15.7	0			
5	SPSK	25	25	19.22	18.35	18.33	18.33						
5	SPSK	50	0	19.22	18.15	18.15	18.15						
Channel								20065	20100	20135	20170	Unsub- band (dB)	MPE (dB)
Frequency (MHz)				19.33	19.33	19.33	19.33	15.7	0				
5	SPSK	1	0	19.30	18.59	18.60	18.60						
5	SPSK	1	12	19.42	18.51	18.59	18.59		15.7	0			
5	SPSK	1	24	19.42	18.54	18.60	18.60						
5	SPSK	12	0	19.20	19.08	19.27	19.27						
5	SPSK	12	7	19.31	19.34	19.41	19.41						
5	SPSK	12	15	19.29	19.33	19.42	19.42						
5	SPSK	12	23	19.26	19.11	19.25	19.25						
5	SPSK	1	0	19.17	19.22	19.22	19.22		15.7	0			
5	SPSK	1	12	19.36	19.43	19.41	19.41			15.7	0		
5	SPSK	1	24	19.40	19.38	19.46	19.46						
5	SPSK	12	0	19.20	19.19	19.30	19.30						
5	SPSK	12	7	19.30	19.31	19.40	19.40		15.7	0			
5	SPSK	12	15	19.30	19.31	19.37	19.37						
5	SPSK	12	23	19.27	19.34	19.33	19.33						
5	SPSK	1	0	19.27	19.34	19.40	19.40						
5	SPSK	1	12	19.27	19.41	19.36	19.36		15.7	0			
5	SPSK	1	24	19.26	19.42	19.36	19.36						
5	SPSK	12	0	19.20	19.22	19.13	19.13						
5	SPSK	12	7	19.12	19.38	19.31	19.31						
5	SPSK	12	15	19.26	19.26	19.26	19.26						
5	SPSK	12	23	19.20	19.19	19.13	19.13						

Band 12 Ant1 DSS3 Power										
RF Band	Modulation	RF BS	RF CH	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Turn-on time (dB)	MPE (dB)	
Channel										
Frequency (MHz)				25600	25600	25600	25600			
10	QPSK	1	0	22.41	22.47	22.57	22.67			
10	QPSK	1	25	22.44	22.48	22.58	22.68	24	0	
10	QPSK	25	0	22.44	22.48	22.58	22.68			
10	QPSK	25	0	22.48	22.55	22.64	22.74			
10	QPSK	25	12	22.54	22.63	22.68	22.78	24	0	
10	QPSK	25	12	22.54	22.63	22.68	22.78			
10	QPSK	25	0	22.52	22.45	22.52	22.62	24	0	
10	QPSK	25	0	22.56	22.52	22.53	22.53			
10	QPSK	25	0	22.62	22.63	22.63	22.63			
10	QPSK	1	49	22.46	22.55	22.64	22.74	24	0	
10	QPSK	25	0	22.45	22.48	22.58	22.68			
10	QPSK	25	0	22.52	22.59	22.68	22.78	24	0	
10	QPSK	25	25	22.55	22.61	22.64	22.74			
10	QPSK	25	25	22.59	22.59	22.59	22.59			
10	QPSK	25	0	22.55	22.55	22.55	22.55	24	0	
10	QPSK	1	26	22.42	22.47	22.50	22.55			
10	QPSK	1	49	22.46	22.51	22.54	22.59			
10	QPSK	25	25	22.54	22.54	22.54	22.54			
10	QPSK	25	12	21.48	21.50	21.74	21.94	23	1	
10	QPSK	25	25	21.50	21.73	21.94	22.14			
10	QPSK	25	12	21.51	21.49	21.74	21.94			
10	25QPSK	1	0	20.39	20.38	20.20	20.20			
10	25QPSK	1	25	20.37	20.35	20.42	20.42	22	2	
10	25QPSK	1	25	20.37	20.37	20.37	20.37			
10	25QPSK	25	0	20.57	20.47	20.42	20.42			
10	25QPSK	25	0	20.57	20.51	20.49	20.49	22	2	
10	25QPSK	25	12	20.52	20.54	20.52	20.52			
10	25QPSK	25	0	20.68	20.57	20.49	20.49	Unch- up (dB)		MPE (dB)
Channel				25600	25600	25600	25600			
Frequency (MHz)				7015	7015	7113	7113			
8	QPSK	1	0	22.38	22.61	22.63	22.63			
8	QPSK	1	12	22.40	22.48	22.60	22.60	24	0	
8	QPSK	1	12	22.40	22.48	22.60	22.60			
8	QPSK	12	0	22.44	22.49	22.52	22.52			
8	QPSK	12	7	22.59	22.59	22.63	22.63	24	0	
8	QPSK	12	7	22.59	22.59	22.63	22.63			
8	QPSK	25	0	22.56	22.54	22.56	22.56			
8	QPSK	1	0	22.54	22.58	22.61	22.61			
8	QPSK	1	12	22.58	22.58	22.61	22.61			
8	QPSK	12	5	22.43	22.42	22.43	22.43	24	0	
8	QPSK	12	5	22.43	22.42	22.43	22.43			
8	QPSK	12	18	22.52	22.59	22.61	22.61			
8	QPSK	25	0	22.52	22.52	22.54	22.54	24	0	
8	QPSK	25	0	22.52	22.52	22.54	22.54			
8	QPSK	1	12	22.52	22.52	22.54	22.54			
8	QPSK	1	12	22.57	22.48	22.57	22.57	24	0	
8	QPSK	1	24	22.42	22.49	22.42	22.42			
8	QPSK	1	24	22.48	22.48	22.48	22.48			
8	QPSK	12	7	21.85	21.81	21.81	21.81			
8	QPSK	12	13	21.58	21.48	21.81	21.81			
8	QPSK	25	0	21.50	21.55	21.55	21.55			
8	25QPSK	1	0	20.31	20.30	20.20	20.20			
8	25QPSK	1	12	20.39	20.28	20.40	20.40	22	2	
8	25QPSK	1	12	20.39	20.28	20.40	20.40			
8	25QPSK	25	0	20.42	20.40	20.44	20.44			
8	25QPSK	25	12	20.82	20.65	20.81	20.81	22	2	
8	25QPSK	25	12	20.82	20.65	20.81	20.81			
8	25QPSK	25	0	20.59	20.63	20.55	20.55			
Channel				25600	25600	25600	25600			
Frequency (MHz)				7015	7015	7113	7113			
3	QPSK	1	0	22.30	22.56	22.60	22.60			
3	QPSK	1	8	22.37	22.40	22.57	22.57	24	0	
3	QPSK	1	8	22.40	22.51	22.41	22.41			
3	QPSK	8	0	22.39	22.45	22.45	22.45			
3	QPSK	8	0	22.53	22.56	22.58	22.58			
3	QPSK	8	8	22.56	22.56	22.53	22.53	24	0	
3	QPSK	16	0	22.53	22.51	22.52	22.52			
3	QPSK	1	0	22.51	22.56	22.47	22.47			
3	QPSK	1	8	22.54	22.34	22.50	22.50			
3	QPSK	1	14	22.38	22.50	22.41	22.41			
3	QPSK	8	0	22.38	22.38	22.37	22.37			
3	QPSK	8	8	22.40	22.33	22.33	22.33			
3	QPSK	8	7	22.47	22.56	22.46	22.46			
3	QPSK	16	0	22.49	22.48	22.51	22.51			
3	QPSK	1	14	22.52	22.48	22.48	22.48			
3	QPSK	8	8	22.34	22.38	22.52	22.52	24	0	
3	QPSK	1	14	22.46	22.40	22.36	22.36			
3	QPSK	8	14	21.47	21.44	21.50	21.50	23	1	
3	QPSK	8	7	21.48	21.50	21.67	21.67			
3	QPSK	1	14	21.50	21.50	21.50	21.50			
3	25QPSK	1	0	20.06	20.08	20.15	20.15			
3	25QPSK	1	8	20.14	20.26	20.24	20.24	22	2	
3	25QPSK	1	8	20.14	20.26	20.24	20.24			
3	25QPSK	8	0	20.37	20.32	20.38	20.38			
3	25QPSK	8	8	20.37	20.47	20.46	20.46	22	2	
3	25QPSK	8	8	20.43	20.53	20.47	20.47			
3	25QPSK	16	0	20.52	20.49	20.51	20.51			
Channel				25617	25609	25173	25173			
Frequency (MHz)				25617	25617	25173	25173			
1.4	QPSK	1	0	22.26	22.52	22.45	22.45			
1.4	QPSK	1	3	22.33	22.37	22.52	22.52	24	0	
1.4	QPSK	1	3	22.37	22.48	22.39	22.39			
1.4	QPSK	3	0	22.36	22.44	22.41	22.41			
1.4	QPSK	3	1	22.47	22.52	22.57	22.57			
1.4	QPSK	3	3	22.50	22.54	22.48	22.48	24	0	
1.4	QPSK	3	3	22.49	22.45	22.46	22.46			
1.4	QPSK	1	0	22.48	22.52	22.45	22.45			
1.4	QPSK	1	3	22.27	22.29	22.45	22.45			
1.4	QPSK	3	0	22.35	22.45	22.38	22.38			
1.4	QPSK	3	0	22.33	22.35	22.50	22.50	24	0	
1.4	QPSK	3	1	22.37	22.44	22.50	22.50			
1.4	QPSK	3	1	22.45	22.45	22.54	22.54			
1.4	QPSK	6	0	22.44	22.44	22.47	22.47	24	0	
1.4	QPSK	6	3	22.47	22.47	22.47	22.47			
1.4	QPSK	3	3	22.31	22.36	22.48	22.48			
1.4	QPSK	1	6	22.36	22.39	22.30	22.30	24	0	
1.4	QPSK	1	6	22.40	22.37	22.37	22.37			
1.4	QPSK	3	3	22.55	22.55	22.58	22.58			
1.4	QPSK	3	3	22.57	22.66	22.57	22.57			
1.4	QPSK	3	3	22.33	22.33	22.37	22.37	20		
1.4	QPSK	1	0	22.33	22.23	22.01	22.01			
1.4	25QPSK	1	0	20.46	20.08	20.36	20.36			
1.4	25QPSK	1	0	20.46	20.08	20.36	20.36			
1.4	25QPSK	3	0	20.28	20.42	20.19	20.19	22	2	
1.4	25QPSK	3	0	20.66	20.27	20.53	20.53			
1.4	25QPSK	6	0	20.67	20.66	20.66	20.66			
1.4	25QPSK	6	0	20.51	20.28	20.47	20.47	22	2	

Band 13 Ant1 DSIS Power										
RF Power	Modulation	RB Size	PRB Count	Power / RB	Power / PRB	Power / Ch. / PRB	Power / Ch. / PRB	Transmit Power (dBm)	MPR (dB)	
Channel				2500	2500					
Frequency (MHz)				Hz	Hz					
10	QPSK	1	0	22.48	22.48					
10	QPSK	1	20	22.16	22.16				0	
10	QPSK	25	0	22.16	22.16					
10	QPSK	25	0	22.19	22.19					
10	QPSK	25	12	22.17	22.17				23	
10	QPSK	25	12	22.17	22.17					
10	QPSK	50	0	22.11	22.11					
10	16QAM	1	0	22.44	22.44				23	
10	16QAM	1	20	22.34	22.34					
10	16QAM	1	40	22.42	22.42					
10	16QAM	25	0	21.44	21.44				22	
10	16QAM	25	0	21.52	21.52					
10	16QAM	25	25	21.87	21.87					
10	16QAM	50	0	21.58	21.58				23	
10	16QAM	50	0	21.58	21.58					
10	16QAM	50	25	22.01	22.01					
10	64QAM	1	25	22.05	22.05				22	
10	64QAM	1	40	22.08	22.08					
10	64QAM	25	0	21.42	21.42					
10	64QAM	25	12	21.70	21.70				22	
10	64QAM	25	20	21.67	21.67					
10	64QAM	50	0	21.58	21.58					
10	256QAM	1	0	20.80	20.80				21	
10	256QAM	1	25	20.44	20.44					
10	256QAM	1	40	20.49	20.49					
10	256QAM	25	0	20.51	20.51				21	
10	256QAM	25	12	20.55	20.55					
10	256QAM	25	20	20.55	20.55					
10	256QAM	50	0	20.53	20.53				21	
10	256QAM	50	0	20.53	20.53					
10	256QAM	50	25	20.93	20.93					
Frequency (MHz)				2300	2300	2300	2300	Transmit Power (dBm)	MPR (dB)	
5	QPSK	1	0	22.30	22.28	22.28	22.28			
5	QPSK	1	12	22.41	22.27	22.27	22.28			
5	QPSK	1	24	22.37	22.27	22.27	22.28		23	
5	QPSK	12	0	22.16	22.02	22.01	22.01			
5	QPSK	12	7	22.05	22.08	22.28	22.28		23	
5	QPSK	12	11	22.05	22.08	22.28	22.28			
5	QPSK	25	0	22.05	22.03	22.21	22.21			
5	16QAM	1	0	22.38	22.34	22.34	22.34			
5	16QAM	1	12	22.47	22.46	22.46	22.46			
5	16QAM	1	24	22.50	22.48	22.48	22.48			
5	16QAM	12	0	21.31	21.34	21.80	21.80		22	
5	16QAM	12	7	21.38	21.38	21.80	21.81			
5	16QAM	12	13	21.42	21.54	21.60	21.60			
5	16QAM	25	0	21.28	21.59	21.56	21.56		21	
5	16QAM	25	12	21.35	21.59	21.56	21.56			
5	16QAM	25	13	22.07	22.29	22.16	22.16			
5	16QAM	1	24	22.26	22.44	22.08	22.08		22	
5	16QAM	12	13	21.38	21.59	21.56	21.56			
5	16QAM	12	7	21.36	21.87	21.60	21.60			
5	16QAM	12	19	21.24	21.67	21.38	21.38		21	
5	256QAM	25	0	21.07	21.46	21.31	21.31			
5	256QAM	25	12	21.38	21.58	20.34	20.34			
5	256QAM	1	12	20.31	20.20	20.32	20.32		21	
5	256QAM	1	24	20.31	20.20	20.32	20.32			
5	256QAM	12	0	20.38	20.38	20.32	20.32			
5	256QAM	12	7	20.33	20.20	20.50	20.51		21	
5	256QAM	12	13	20.45	20.17	20.46	20.46			
5	256QAM	25	0	20.34	20.24	20.25	20.25			

Band 17 Ant1 DSS3 Power									
BW (MHz)	Modulation	RB Size	PRB Offset	Power Level 2376W	Power Ch/Freq 2376W	Power Ch/Freq 2376W	Power Ch/Freq 2376W	Trace Info (dBm)	MPE Info
Channel									
0	QPSK	1	0	22.43	-22.53	-22.53	-22.47		
5	QPSK	1	25	22.52	-22.47	-22.58	-22.46	24	0
10	QPSK	1	50	22.42	-22.57	-22.43	-22.47		
15	QPSK	25	0	22.37	-22.53	-22.42	-22.46		
20	QPSK	25	12	22.48	-22.47	-22.53	-22.40		
25	QPSK	25	25	22.49	-22.52	-22.43	-22.42	24	0
30	QPSK	50	0	22.36	-22.55	-22.47	-22.47		
35	16QAM	1	0	22.40	-22.56	-22.46	-22.41		
40	16QAM	1	25	22.39	-22.37	-22.33	-22.33	24	0
45	16QAM	1	50	22.34	-22.59	-22.36	-22.48		
50	16QAM	25	0	22.54	-22.42	-22.43	-22.42		
55	16QAM	25	25	22.44	-22.37	-22.33	-22.48	24	0
60	16QAM	50	0	22.30	-22.36	-22.43	-22.43		
65	16QAM	50	25	22.41	-22.43	-22.58	-22.42		
70	16QAM	1	26	22.48	-22.41	-22.51	-22.44		
75	16QAM	1	49	22.40	-22.38	-22.37	-22.37		
80	16QAM	1	74	22.31	-22.37	-22.35	-22.35		
85	16QAM	25	12	22.54	-22.52	-22.42	-22.47		
90	16QAM	25	25	22.47	-22.38	-22.47	-22.47		
95	16QAM	50	0	22.34	-22.35	-22.46	-22.46		
100	256QAM	1	0	20.81	-20.86	-20.75	-20.75		
105	256QAM	1	25	20.88	-20.86	-20.72	-20.72	22	2
110	256QAM	1	50	20.84	-20.84	-20.69	-20.69		
115	256QAM	25	0	20.35	-20.42	-20.48	-20.48		
120	256QAM	25	12	20.64	-20.56	-20.57	-20.57		
125	256QAM	25	25	20.47	-20.38	-20.48	-20.48	22	2
130	256QAM	50	0	20.38	-20.42	-20.54	-20.54		
135	256QAM	50	25	20.36	-20.59	-20.48	-20.48		
140	256QAM	1	26	20.37	-20.50	-20.43	-20.43		
145	256QAM	1	50	22.41	-22.57	-22.43	-22.43	24	0
Frequency Aimb									
5	QPSK	1	0	22.41	-22.57	-22.43	-22.43		
10	QPSK	1	12	22.46	-22.41	-22.52	-22.52	24	0
15	QPSK	1	38	22.42	-22.53	-22.47	-22.47		
20	QPSK	12	0	22.33	-22.39	-22.37	-22.37		
25	QPSK	12	7	22.34	-22.54	-22.47	-22.47	24	0
30	QPSK	12	19	22.37	-22.47	-22.43	-22.43		
35	QPSK	25	6	22.31	-22.34	-22.45	-22.45		
40	16QAM	1	0	22.36	-22.52	-22.41	-22.41		
45	16QAM	1	12	22.45	-22.35	-22.48	-22.48		
50	16QAM	1	24	22.39	-22.31	-22.29	-22.29		
55	16QAM	12	1	22.31	-22.35	-22.38	-22.38		
60	16QAM	12	13	22.38	-22.42	-22.40	-22.40		
65	16QAM	12	19	22.35	-22.33	-22.42	-22.42	24	0
70	16QAM	25	0	22.25	-22.33	-22.38	-22.38		
75	16QAM	25	12	22.32	-22.32	-22.39	-22.39		
80	16QAM	1	12	22.45	-22.39	-22.52	-22.52	24	0
85	16QAM	1	24	22.34	-22.34	-22.32	-22.32		
90	16QAM	12	1	22.31	-22.35	-22.38	-22.38		
95	16QAM	25	0	22.25	-22.33	-22.38	-22.38		
100	256QAM	1	0	20.35	-20.42	-20.47	-20.47		
105	256QAM	1	12	20.50	-20.47	-20.41	-20.41		
110	256QAM	1	24	20.71	-20.68	-20.59	-20.59	22	2
115	256QAM	12	1	20.68	-20.68	-20.67	-20.67		
120	256QAM	12	13	20.51	-20.58	-20.50	-20.50		
125	256QAM	25	0	20.31	-20.48	-20.38	-20.38	22	2
130	256QAM	25	12	20.39	-20.41	-20.46	-20.46		
135	256QAM	50	0	20.27	-20.48	-20.48	-20.48	22	2



Band 25 Ant1 DS13 Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 26145	Power High Ch / Freq. 26140	Power High Ch / Freq. 26090	Turnup time (sec)	MPE (dB)		
Channel										
20.0000										
Frequency (MHz)										
20	QPSK	1	0	19.41	19.38	19.33				
20	QPSK	1	49	19.51	19.41	19.45	20.6	0		
20	QPSK	1	99	19.34	19.42	19.38				
20	QPSK	50	0	19.40	19.31	19.21				
20	QPSK	50	24	19.20	19.32	19.24			20.6	0
20	QPSK	50	50	19.28	19.33	19.32				
20	QPSK	100	0	19.22	19.46	19.16				
20	HQAM	1	0	19.23	19.15	19.10				
20	HQAM	1	99	19.03	19.05	19.01	20.6	0		
20	HQAM	50	0	19.13	19.04	19.14				
20	HQAM	50	24	19.23	19.18	19.25			20.6	0
20	HQAM	50	50	19.16	19.10	19.06				
20	HQAM	100	0	19.26	19.12	19.20				
20	HQAM	1	0	19.33	19.24	19.31				
20	HQAM	1	49	19.35	19.26	19.26	20.6	0		
20	HQAM	50	0	19.23	19.09	19.24				
20	HQAM	50	24	19.27	19.16	19.16			20.6	0
20	HQAM	100	0	19.20	19.10	19.16				
20	SSBQAM	1	0	17.81	17.83	17.86				
20	SSBQAM	1	49	18.03	17.99	17.84	19	1.6		
20	SSBQAM	1	99	17.87	18.04	17.77				
20	SSBQAM	50	0	17.84	17.89	17.84				
20	SSBQAM	50	24	17.80	17.92	17.84				
20	SSBQAM	50	50	17.81	17.81	17.77				
20	SSBQAM	100	0	17.73	17.83	17.86				
Channel										
20.0000										
Frequency (MHz)										
15	QPSK	1	0	19.40	19.34	19.29	20.6	0		
15	QPSK	1	37	19.48	19.38	19.42				
15	QPSK	1	74	19.29	19.40	19.32				
15	QPSK	36	0	19.37	19.48	19.19				
15	QPSK	25	0	19.19	19.31	19.22				
15	QPSK	36	36	19.27	19.32	19.28			20.6	0
15	QPSK	75	0	19.28	19.43	19.16				
15	HQAM	1	0	19.22	19.14	19.06				
15	HQAM	1	37	19.03	19.09	19.05	20.6	0		
15	HQAM	1	74	19.05	19.07	19.02				
15	HQAM	36	0	19.10	19.09	19.09				
15	HQAM	36	20	19.20	19.15	19.22			20.6	0
15	HQAM	36	39	19.14	19.07	19.17				
15	HQAM	75	0	19.22	19.08	19.17				
15	HQAM	1	0	19.29	19.20	19.29				
15	HQAM	1	37	19.31	19.25	19.26				
15	HQAM	36	0	19.22	19.10	19.05			20.6	0
15	HQAM	25	0	19.24	19.23	19.23				
15	HQAM	36	39	19.17	19.05	19.13				
15	HQAM	75	0	19.17	19.04	19.13				
15	SSBQAM	1	37	17.79	17.94	17.85	19	1.6		
15	SSBQAM	1	74	17.88	17.88	17.83				
15	SSBQAM	36	0	17.86	17.86	17.82				
15	SSBQAM	36	20	17.80	17.85	17.89			19	1.6
15	SSBQAM	36	39	17.89	17.83	17.76				
15	SSBQAM	75	0	17.68	17.84	17.88				
Channel										
20.0000										
Frequency (MHz)										
10	QPSK	1	0	19.39	19.35	19.34	20.6	0		
10	QPSK	1	25	19.48	19.39	19.41				
10	QPSK	1	49	19.31	19.40	19.33				
10	QPSK	25	0	19.37	19.47	19.37				
10	QPSK	25	12	19.19	19.31	19.22			20.6	0
10	QPSK	25	25	19.26	19.30	19.29				
10	HQAM	1	0	19.21	19.13	19.13				
10	HQAM	1	0	19.19	19.11	19.09				
10	HQAM	1	25	19.00	19.05	19.03	20.6	0		
10	HQAM	1	49	18.99	19.01	19.12				
10	HQAM	25	0	19.18	19.09	19.05				
10	HQAM	25	12	19.19	19.13	19.23			20.6	0
10	HQAM	25	25	19.17	19.08	19.08				
10	HQAM	50	0	19.22	19.10	19.17				
10	HQAM	1	0	19.28	19.21	19.28				
10	HQAM	1	25	19.31	19.24	19.24				
10	HQAM	1	49	19.19	19.07	19.21				
10	HQAM	25	0	19.18	19.09	19.05				
10	HQAM	25	12	19.25	19.12	19.21				
10	HQAM	25	25	19.19	19.07	19.11				
10	HQAM	50	0	19.16	19.15	19.14				
10	SSBQAM	1	25	17.55	17.71	17.61				
10	SSBQAM	1	25	17.87	17.90	17.88	19	1.6		
10	SSBQAM	1	49	17.87	17.89	17.82				
10	SSBQAM	25	0	17.70	17.82	17.75				
10	SSBQAM	25	12	18.03	17.91	17.75				
10	SSBQAM	25	25	18.00	18.00	17.89				
10	SSBQAM	50	0	17.86	17.82	18.04				
Channel										
20.0000										
Frequency (MHz)										
5	QPSK	1	0	19.39	19.35	19.34	20.6	0		
5	QPSK	1	12	19.50	19.36	19.42				
5	QPSK	1	24	19.30	19.39	19.33				
5	QPSK	12	0	19.36	19.47	19.37				
5	QPSK	12	7	19.19	19.29	19.20				
5	QPSK	12	13	19.24	19.29	19.29				
5	HQAM	1	0	19.19	19.13	19.08				
5	HQAM	1	12	19.02	19.05	19.06	20.6	0		
5	HQAM	1	24	19.09	19.03	19.09				
5	HQAM	12	0	19.10	19.01	19.09				
5	HQAM	12	7	19.21	19.15	19.22				
5	HQAM	12	13	19.16	19.06	19.07			20.6	0
5	HQAM	25	0	19.23	19.07	19.16				
5	HQAM	1	0	19.30	19.22	19.29				
5	HQAM	1	12	19.33	19.25	19.27			20.6	0
5	HQAM	1	24	19.19	19.04	19.20				
5	HQAM	12	0	19.19	19.09	19.03				
5	HQAM	12	7	19.24	19.12	19.14			20.6	0
5	HQAM	12	13	19.16	19.06	19.14				
5	HQAM	25	0	19.15	19.19	19.15				
5	SSBQAM	1	0	17.71	17.78	17.78				
5	SSBQAM	1	12	17.75	17.90	17.79	19	1.6		
5	SSBQAM	1	24	17.85	17.89	17.86				
5	SSBQAM	1	0	17.62	17.83	17.82				
5	SSBQAM	12	7	17.69	18.01	17.83				
5	SSBQAM	12	13	18.01	18.01	17.86				
5	SSBQAM	25	0	17.71	17.78	17.88				
Channel										
20.0000										
Frequency (MHz)										
3	QPSK	1	0	19.38	19.35	19.30	20.6	0		
3	QPSK	1	8	19.50	19.37	19.43				
3	QPSK	1	14	19.30	19.39	19.32				
3	QPSK	8	0	19.37	19.47	19.37				
3	QPSK	8	4	19.16	19.30	19.23			20.6	0
3	QPSK	8	10	19.23	19.38	19.26				
3	QPSK	16	0	19.43	19.43	19.12				
3	HQAM	1	0	19.20	19.13	19.08				
3	HQAM	1	8	19.03	19.09	19.05	20.6	0		
3	HQAM	1	14	18.99	19.00	19.00				
3	HQAM	8	0	19.08	19.01	19.01				
3	HQAM	8	4	19.18	19.18	19.13				
3	HQAM	8	7	19.16	19.05	19.04				
3	HQAM	16	0	19.09	19.02	19.02				
3	HQAM	1	0	19.30	19.22	19.30				
3	HQAM	1	8	19.33	19.24	19.24	20.6	0		
3	HQAM	1	14	19.30	19.20	19.20				
3	HQAM	8	0	19.21	19.08	19.04				
3	HQAM	8	4	19.24	19.14	19.13			20.6	0
3	HQAM	8	10	19.00	19.13	19.12				
3	HQAM	16	0	19.16	19.17	19.12				
3	SSBQAM	1	0	17.62	17.88	17.86				
3	SSBQAM	1	8	17.81	17.91	17.84	19	1.6		
3	SSBQAM	1	14	17.85	17.88	18.01				
3	SSBQAM	8	0	17.65	17.88	17.86				
3	SSBQAM	8	4	17.64	17.71	17.71			19	1.6
3	SSBQAM	8	7	17.83	17.91	17.88				
3	SSBQAM	16	0	17.78	18.01	17.97				
Channel										
20.0000										
Frequency (MHz)										
1.4	QPSK	1	0	19.37	19.80	19.33				
1.4	QPSK	1	0	19.36	19.55	19.36	20.6	0		
1.4	QPSK	1	0	19.30	19.40	19.34				
1.4	QPSK	1	0	19.32	19.40	19.34				
1.4	QPSK	3	0	19.36	19.48	19.19				
1.4	QPSK	15	0	19.23	19.27	19.21				
1.4	QPSK	3	0	19.24	19.30	19.28				
1.4	QPSK	3	0	19.19	19.43	19.14	20.6	0		
1.4	QPSK	15	0	19.11	19.19	19.19				
1.4	HQAM	1	0	19.03	19.07	19.05				
1.4	HQAM	1	0	18.99	19.01	19.00	20.6	0		
1.4	HQAM	1	0	19.01	19.01	19.01				
1.4	HQAM	3	1	19.20	19.14	19.20				
1.4	HQAM	3	0	19.17	19.08	19.17				
1.4	HQAM	15	0	19.07	19.18	19.07	20.6	0		
1.4	HQAM	1	0	19.31	19.20	19.29				
1.4	HQAM	1	0	19.21	19.24	19.21				
1.4	HQAM</									



Band 38(only on channel required) Ant1 DSI3 Power									
BW [MHz]	Modulation	Channel Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	20.71	20.91	20.77			
20	QPSK	1	49	20.90	20.86	20.77	22	0	
20	QPSK	1	99	20.81	20.78	20.86			
20	QPSK	50	0	20.71	20.86	20.82			
20	QPSK	50	24	20.72	20.82	20.82			
20	QPSK	50	50	20.86	20.66	20.79	22	0	
20	QPSK	100	0	20.82	20.85	20.68			
20	16QAM	1	0	20.68	20.83	20.76			
20	16QAM	1	49	20.75	20.64	20.71	22	0	
20	16QAM	1	99	20.83	20.75	20.65			
20	16QAM	50	0	20.68	20.73	20.76			
20	16QAM	50	24	20.80	20.81	20.75			
20	16QAM	50	50	20.73	20.60	20.63	22	0	
20	16QAM	100	0	20.80	20.83	20.56			
20	64QAM	1	0	20.66	20.71	20.75			
20	64QAM	1	49	20.63	20.60	20.77	22	0	
20	64QAM	1	99	20.81	20.77	20.72			
20	64QAM	50	0	20.71	20.73	20.80			
20	64QAM	50	24	20.51	20.84	20.78			
20	64QAM	50	50	20.83	20.66	20.73	22	0	
20	64QAM	100	0	20.79	20.73	20.68			
20	256QAM	1	0	20.50	20.72	20.71			
20	256QAM	1	49	20.54	20.65	20.69	22	0	
20	256QAM	1	99	20.58	20.66	20.64			
20	256QAM	50	0	20.66	20.76	20.66			
20	256QAM	50	24	20.39	20.85	20.79			
20	256QAM	50	50	20.68	20.55	20.61	22	0	
20	256QAM	100	0	20.71	20.59	20.66			
Channel Frequency (MHz)									
15	QPSK	1	0	20.69	20.89	20.76	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	37	20.87	20.82	20.76	22	0	
15	QPSK	1	74	20.79	20.73	20.82			
15	QPSK	36	0	20.66	20.78	20.79			
15	QPSK	36	20	20.69	20.79	20.77	22	0	
15	QPSK	36	39	20.62	20.65	20.77			
15	QPSK	75	0	20.78	20.80	20.67			
15	16QAM	1	0	20.66	20.71	20.74			
15	16QAM	1	37	20.70	20.59	20.67	22	0	
15	16QAM	1	74	20.79	20.70	20.62			
15	16QAM	36	0	20.66	20.71	20.73			
15	16QAM	36	20	20.68	20.78	20.70	22	0	
15	16QAM	36	39	20.71	20.57	20.61			
15	16QAM	75	0	20.77	20.80	20.52			
15	64QAM	1	0	20.46	20.69	20.71			
15	64QAM	1	37	20.61	20.56	20.75	22	0	
15	64QAM	1	74	20.77	20.73	20.70			
15	64QAM	36	0	20.69	20.70	20.78			
15	64QAM	36	20	20.46	20.78	20.75	22	0	
15	64QAM	36	39	20.78	20.62	20.68			
15	64QAM	75	0	20.74	20.71	20.65			
15	256QAM	1	0	20.45	20.69	20.68			
15	256QAM	1	37	20.54	20.64	20.71	22	0	
15	256QAM	1	74	20.55	20.63	20.60			
15	256QAM	36	0	20.64	20.74	20.64			
15	256QAM	36	20	20.35	20.73	20.68	22	0	
15	256QAM	36	39	20.65	20.55	20.62			
15	256QAM	75	0	20.67	20.55	20.52			
Channel Frequency (MHz)									
10	QPSK	1	0	20.17	20.86	20.12	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	25	20.89	20.83	20.75	22	0	
10	QPSK	1	49	20.79	20.73	20.84			
10	QPSK	25	0	20.68	20.81	20.79			
10	QPSK	25	12	20.68	20.78	20.81	22	0	
10	QPSK	25	25	20.65	20.63	20.77			
10	QPSK	50	0	20.79	20.84	20.64			
10	16QAM	1	0	20.66	20.81	20.75	22	0	
10	16QAM	1	25	20.12	20.80	20.66			
10	16QAM	1	49	20.78	20.70	20.61			
10	16QAM	25	0	20.64	20.70	20.73	22	0	
10	16QAM	25	12	20.66	20.76	20.71			
10	16QAM	25	25	20.70	20.56	20.60			
10	16QAM	50	0	20.77	20.81	20.52			
10	64QAM	1	0	20.64	20.66	20.74			
10	64QAM	1	25	20.68	20.76	20.71	22	0	
10	64QAM	1	49	20.78	20.73	20.67			
10	64QAM	25	0	20.66	20.68	20.76			
10	64QAM	25	12	20.49	20.77	20.72	22	0	
10	64QAM	25	25	20.80	20.62	20.69			
10	64QAM	50	0	20.74	20.69	20.63			
10	256QAM	1	0	20.46	20.67	20.69			
10	256QAM	1	25	20.51	20.53	20.62	22	0	
10	256QAM	1	49	20.54	20.65	20.62			
10	256QAM	25	0	20.63	20.72	20.65			
10	256QAM	25	12	20.38	20.72	20.69	22	0	
10	256QAM	25	25	20.66	20.53	20.59			
10	256QAM	50	0	20.68	20.55	20.54			
Channel Frequency (MHz)									
5	QPSK	1	0	20.70	20.88	20.75	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	12	20.88	20.82	20.73	22	0	
5	QPSK	1	24	20.77	20.75	20.84			
5	QPSK	12	0	20.68	20.82	20.77			
5	QPSK	12	7	20.68	20.77	20.78	22	0	
5	QPSK	12	13	20.64	20.64	20.75			
5	QPSK	25	0	20.80	20.84	20.67			
5	16QAM	1	0	20.65	20.78	20.74	22	0	
5	16QAM	1	12	20.72	20.62	20.69			
5	16QAM	1	24	20.78	20.73	20.61			
5	16QAM	12	0	20.64	20.72	20.73	22	0	
5	16QAM	12	7	20.57	20.79	20.70			
5	16QAM	12	13	20.71	20.55	20.58			
5	16QAM	25	0	20.78	20.61	20.53			
5	64QAM	1	0	20.64	20.69	20.72			
5	64QAM	1	12	20.59	20.59	20.75	22	0	
5	64QAM	1	24	20.76	20.76	20.69			
5	64QAM	12	0	20.68	20.72	20.78			
5	64QAM	12	7	20.47	20.77	20.74	22	0	
5	64QAM	12	13	20.76	20.63	20.70			
5	64QAM	25	0	20.77	20.72	20.65			
5	256QAM	1	0	20.47	20.68	20.68			
5	256QAM	1	12	20.52	20.51	20.66	22	0	
5	256QAM	1	24	20.56	20.64	20.59			
5	256QAM	12	0	20.63	20.72	20.64			
5	256QAM	12	7	20.35	20.73	20.68	22	0	
5	256QAM	12	13	20.64	20.51	20.60			
5	256QAM	25	0	20.66	20.57	20.54			

Band 38(only on channel required) PC2 Ant1 DSI3 Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	22.29	22.45	22.42			
20	QPSK	1	49	22.33	22.33	22.41	23.6	0	
20	QPSK	1	99	22.42	22.34	22.40			
20	QPSK	50	0	22.29	22.40	22.31			
20	QPSK	50	24	22.39	22.36	22.25	23.6	0	
20	QPSK	50	50	22.38	22.40	22.35			
20	QPSK	100	0	22.32	22.39	22.24			
20	16QAM	1	0	22.29	22.23	22.17			
20	16QAM	1	49	22.37	22.35	22.23	23.6	0	
20	16QAM	1	99	22.35	22.34	22.20			
20	16QAM	50	0	22.23	22.25	22.34			
20	16QAM	50	24	22.33	22.31	22.30	23.6	0	
20	16QAM	50	50	22.32	22.40	22.25			
20	16QAM	100	0	22.33	22.35	22.37			
20	64QAM	1	0	22.34	22.32	22.17			
20	64QAM	1	49	22.21	22.28	22.20	23.6	0	
20	64QAM	1	99	22.36	22.15	22.30			
20	64QAM	50	0	22.22	22.25	22.28			
20	64QAM	50	24	22.31	22.40	22.24	23.6	0	
20	64QAM	50	50	22.34	22.38	22.27			
20	64QAM	100	0	22.28	22.32	22.20			
20	256QAM	1	0	22.25	22.36	22.22			
20	256QAM	1	49	22.31	22.36	22.14	23.6	0	
20	256QAM	1	99	22.32	22.16	22.29			
20	256QAM	50	0	22.22	22.35	22.21			
20	256QAM	50	24	22.29	22.40	22.24			
20	256QAM	50	50	22.28	22.28	22.26	23.6	0	
20	256QAM	100	0	22.26	22.21	22.25			
Channel Frequency (MHz)									
15	QPSK	1	0	22.26	22.42	22.38	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	37	22.30	22.31	22.36	23.6	0	
15	QPSK	1	74	22.39	22.33	22.41			
15	QPSK	36	0	22.22	22.37	22.31			
15	QPSK	36	20	22.37	22.32	22.24	23.6	0	
15	QPSK	36	39	22.36	22.37	22.14			
15	QPSK	75	0	22.29	22.35	22.19			
15	16QAM	1	0	22.25	22.23	22.17			
15	16QAM	1	37	22.33	22.33	22.19	23.6	0	
15	16QAM	1	74	22.39	22.36	22.27			
15	16QAM	36	0	22.19	22.21	22.32			
15	16QAM	36	20	22.26	22.27	22.26	23.6	0	
15	16QAM	36	39	22.26	22.35	22.13			
15	16QAM	75	0	22.31	22.31	22.13			
15	64QAM	1	0	22.29	22.30	22.13			
15	64QAM	1	37	22.19	22.24	22.18	23.6	0	
15	64QAM	1	74	22.31	22.12	22.28			
15	64QAM	36	0	22.19	22.24	22.28			
15	64QAM	36	20	22.31	22.26	22.26	23.6	0	
15	64QAM	36	39	22.30	22.35	22.22			
15	64QAM	75	0	22.29	22.35	22.22			
15	256QAM	1	0	22.21	22.34	22.08			
15	256QAM	1	37	22.15	22.35	22.09	23.6	0	
15	256QAM	1	74	22.28	22.13	22.26			
15	256QAM	36	0	22.21	22.31	22.28			
15	256QAM	36	20	22.31	22.22	22.24	23.6	0	
15	256QAM	36	39	22.25	22.27	22.22			
15	256QAM	75	0	22.23	22.10	22.21			
Channel Frequency (MHz)									
10	QPSK	1	0	22.25	22.41	22.37	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	21	22.28	22.38	22.37	23.6	0	
10	QPSK	1	49	22.27	22.32	22.38			
10	QPSK	25	0	22.23	22.36	22.23			
10	QPSK	25	12	22.34	22.33	22.21	23.6	0	
10	QPSK	25	25	22.34	22.37	22.14			
10	QPSK	50	0	22.30	22.37	22.20			
10	16QAM	1	0	22.28	22.21	22.28			
10	16QAM	1	25	22.30	22.30	22.19	23.6	0	
10	16QAM	1	50	22.32	22.32	22.18			
10	16QAM	25	0	22.19	22.23	22.30			
10	16QAM	25	12	22.30	22.29	22.29	23.6	0	
10	16QAM	25	25	22.28	22.37	22.13			
10	18QAM	50	0	22.30	22.32	22.34			
10	64QAM	1	0	22.29	22.21	22.15			
10	64QAM	1	25	22.19	22.26	22.17	23.6	0	
10	64QAM	1	49	22.33	22.12	22.28			
10	64QAM	25	0	22.20	22.21	22.25			
10	64QAM	25	12	22.29	22.26	22.24	23.6	0	
10	64QAM	25	25	22.33	22.35	22.25			
10	64QAM	50	0	22.27	22.32	22.26			
10	256QAM	1	0	22.23	22.34	22.10			
10	256QAM	1	25	22.11	22.33	22.12	23.6	0	
10	256QAM	1	50	22.30	22.12	22.25			
10	256QAM	25	0	22.18	22.34	22.30			
10	256QAM	25	12	22.29	22.20	22.22	23.6	0	
10	256QAM	25	25	22.24	22.23	22.23			
10	256QAM	50	0	22.22	22.18	22.21			
Channel Frequency (MHz)									
5	QPSK	1	0	22.28	22.41	22.41	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	12	22.29	22.29	22.35	23.6	0	
5	QPSK	1	24	22.39	22.31	22.40			
5	QPSK	12	0	22.24	22.36	22.32			
5	QPSK	12	6	22.35	22.38	22.22	23.6	0	
5	QPSK	12	13	22.34	22.37	22.16			
5	QPSK	25	0	22.28	22.37	22.20			
5	16QAM	1	0	22.27	22.21	22.29			
5	16QAM	1	25	22.34	22.32	22.21	23.6	0	
5	16QAM	1	24	22.31	22.31	22.19			
5	16QAM	12	0	22.21	22.24	22.31			
5	16QAM	12	7	22.30	22.27	22.26	23.6	0	
5	16QAM	12	13	22.27	22.36	22.13			
5	16QAM	25	0	22.30	22.32	22.35			
5	64QAM	1	0	22.30	22.29	22.13	23.6	0	
5	64QAM	1	24	22.16	22.24	22.19			
5	64QAM	12	0	22.19	22.21	22.26			
5	64QAM	12	7	22.30	22.26	22.26	23.6	0	
5	64QAM	12	13	22.27	22.34	22.24			
5	256QAM	1	0	22.24	22.28	22.17			
5	256QAM	1	12	22.23	22.32	22.09	23.6	0	
5	256QAM	1	12	22.12	22.38	22.10			
5	256QAM	12	0	22.31	22.30	22.15			
5	256QAM	12	6	22.19	22.30	22.29	23.6	0	
5	256QAM	12	7	22.29	22.21	22.24			
5	256QAM	12	13	22.28	22.24	22.24	23.6	0	
5	256QAM	25	0	22.23	22.16	22.23			



Band 42 (3.5GHz Band) Ant2 DS13 Power										
BW (MHz)	Modulation	RIS Size	RB Offset	Power Ch. 1/Freq.	Power Ch. 2/Freq.	Power Ch. 3/Freq.	Power Ch. 4/Freq.	Power Ch. 5/Freq.	Power Ch. 6/Freq.	Power Ch. 7/Freq.
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.51	14.71	14.80				
20	QPSK	1	6	14.52	14.72	14.81				
20	QPSK	1	12	14.53	14.73	14.82				
20	QPSK	1	18	14.54	14.74	14.83				
20	QPSK	1	24	14.55	14.75	14.84				
20	QPSK	1	30	14.56	14.76	14.85				
20	QPSK	1	36	14.57	14.77	14.86				
20	QPSK	1	42	14.58	14.78	14.87				
20	QPSK	1	48	14.59	14.79	14.88				
20	QPSK	1	54	14.60	14.80	14.89				
20	QPSK	1	60	14.61	14.81	14.90				
20	QPSK	1	66	14.62	14.82	14.91				
20	QPSK	1	72	14.63	14.83	14.92				
20	QPSK	1	78	14.64	14.84	14.93				
20	QPSK	1	84	14.65	14.85	14.94				
20	QPSK	1	90	14.66	14.86	14.95				
20	QPSK	1	96	14.67	14.87	14.96				
20	QPSK	1	102	14.68	14.88	14.97				
20	QPSK	1	108	14.69	14.89	14.98				
20	QPSK	1	114	14.70	14.90	14.99				
20	QPSK	1	120	14.71	14.91	15.00				
20	QPSK	1	126	14.72	14.92	15.01				
20	QPSK	1	132	14.73	14.93	15.02				
20	QPSK	1	138	14.74	14.94	15.03				
20	QPSK	1	144	14.75	14.95	15.04				
20	QPSK	1	150	14.76	14.96	15.05				
20	QPSK	1	156	14.77	14.97	15.06				
20	QPSK	1	162	14.78	14.98	15.07				
20	QPSK	1	168	14.79	14.99	15.08				
20	QPSK	1	174	14.80	15.00	15.09				
20	QPSK	1	180	14.81	15.01	15.10				
20	QPSK	1	186	14.82	15.02	15.11				
20	QPSK	1	192	14.83	15.03	15.12				
20	QPSK	1	198	14.84	15.04	15.13				
20	QPSK	1	204	14.85	15.05	15.14				
20	QPSK	1	210	14.86	15.06	15.15				
20	QPSK	1	216	14.87	15.07	15.16				
20	QPSK	1	222	14.88	15.08	15.17				
20	QPSK	1	228	14.89	15.09	15.18				
20	QPSK	1	234	14.90	15.10	15.19				
20	QPSK	1	240	14.91	15.11	15.20				
20	QPSK	1	246	14.92	15.12	15.21				
20	QPSK	1	252	14.93	15.13	15.22				
20	QPSK	1	258	14.94	15.14	15.23				
20	QPSK	1	264	14.95	15.15	15.24				
20	QPSK	1	270	14.96	15.16	15.25				
20	QPSK	1	276	14.97	15.17	15.26				
20	QPSK	1	282	14.98	15.18	15.27				
20	QPSK	1	288	14.99	15.19	15.28				
20	QPSK	1	294	15.00	15.20	15.29				
20	QPSK	1	300	15.01	15.21	15.30				
20	QPSK	1	306	15.02	15.22	15.31				
20	QPSK	1	312	15.03	15.23	15.32				
20	QPSK	1	318	15.04	15.24	15.33				
20	QPSK	1	324	15.05	15.25	15.34				
20	QPSK	1	330	15.06	15.26	15.35				
20	QPSK	1	336	15.07	15.27	15.36				
20	QPSK	1	342	15.08	15.28	15.37				
20	QPSK	1	348	15.09	15.29	15.38				
20	QPSK	1	354	15.10	15.30	15.39				
20	QPSK	1	360	15.11	15.31	15.40				
20	QPSK	1	366	15.12	15.32	15.41				
20	QPSK	1	372	15.13	15.33	15.42				
20	QPSK	1	378	15.14	15.34	15.43				
20	QPSK	1	384	15.15	15.35	15.44				
20	QPSK	1	390	15.16	15.36	15.45				
20	QPSK	1	396	15.17	15.37	15.46				
20	QPSK	1	402	15.18	15.38	15.47				
20	QPSK	1	408	15.19	15.39	15.48				
20	QPSK	1	414	15.20	15.40	15.49				
20	QPSK	1	420	15.21	15.41	15.50				
20	QPSK	1	426	15.22	15.42	15.51				
20	QPSK	1	432	15.23	15.43	15.52				
20	QPSK	1	438	15.24	15.44	15.53				
20	QPSK	1	444	15.25	15.45	15.54				
20	QPSK	1	450	15.26	15.46	15.55				
20	QPSK	1	456	15.27	15.47	15.56				
20	QPSK	1	462	15.28	15.48	15.57				
20	QPSK	1	468	15.29	15.49	15.58				
20	QPSK	1	474	15.30	15.50	15.59				
20	QPSK	1	480	15.31	15.51	15.60				
20	QPSK	1	486	15.32	15.52	15.61				
20	QPSK	1	492	15.33	15.53	15.62				
20	QPSK	1	498	15.34	15.54	15.63				
20	QPSK	1	504	15.35	15.55	15.64				
20	QPSK	1	510	15.36	15.56	15.65				
20	QPSK	1	516	15.37	15.57	15.66				
20	QPSK	1	522	15.38	15.58	15.67				
20	QPSK	1	528	15.39	15.59	15.68				
20	QPSK	1	534	15.40	15.60	15.69				
20	QPSK	1	540	15.41	15.61	15.70				
20	QPSK	1	546	15.42	15.62	15.71				
20	QPSK	1	552	15.43	15.63	15.72				
20	QPSK	1	558	15.44	15.64	15.73				
20	QPSK	1	564	15.45	15.65	15.74				
20	QPSK	1	570	15.46	15.66	15.75				
20	QPSK	1	576	15.47	15.67	15.76				
20	QPSK	1	582	15.48	15.68	15.77				
20	QPSK	1	588	15.49	15.69	15.78				
20	QPSK	1	594	15.50	15.70	15.79				
20	QPSK	1	600	15.51	15.71	15.80				
20	QPSK	1	606	15.52	15.72	15.81				
20	QPSK	1	612	15.53	15.73	15.82				
20	QPSK	1	618	15.54	15.74	15.83				
20	QPSK	1	624	15.55	15.75	15.84				
20	QPSK	1	630	15.56	15.76	15.85				
20	QPSK	1	636	15.57	15.77	15.86				
20	QPSK	1	642	15.58	15.78	15.87				
20	QPSK	1	648	15.59	15.79	15.88				
20	QPSK	1	654	15.60	15.80	15.89				
20	QPSK	1	660	15.61	15.81	15.90				
20	QPSK	1	666	15.62	15.82	15.91				
20	QPSK	1	672	15.63	15.83	15.92				
20	QPSK	1	678	15.64	15.84	15.93				
20	QPSK	1	684	15.65	15.85	15.94				
20	QPSK	1	690	15.66	15.86	15.95				
20	QPSK	1	696	15.67	15.87	15.96				
20	QPSK	1	702	15.68	15.88	15.97				
20	QPSK	1	708	15.69	15.89	15.98				
20	QPSK	1	714	15.70	15.90	15.99				
20	QPSK	1	720	15.71	15.91	16.00				
20	QPSK	1	726	15.72	15.92	16.01				
20	QPSK	1	732	15.73	15.93	16.02				
20	QPSK	1	738	15.74	15.94	16.03				
20	QPSK	1	744	15.75	15.95	16.04				
20	QPSK	1	750	15.76	15.96	16.05				
20	QPSK	1	756	15.77	15.97	16.06				
20	QPSK	1	762	15.78	15.98	16.07				
20	QPSK	1	768	15.79	15.99	16.08				
20	QPSK	1	774	15.80	16.00	16.09				
20	QPSK	1	780	15.81	16.01	16.10				
20	QPSK	1	786	15.82	16.02	16.11				
20	QPSK	1	792	15.83	16.03	16.12				
20	QPSK	1	798	15.84	16.04	16.13				
20	QPSK	1	804	15.85	16.05	16.14				
20	QPSK	1	810	15.86	16.06	16.15				
20	QPSK	1	816	15.87	16.07	16.16				
20	QPSK	1	822	15.88	16.08	16.17				
20	QPSK	1	828	15.89	16.09	16.18				
20	QPSK	1	834	15.90	16.10	16.19				
20	QPSK	1	840	15.91	16.11	16.20				
20	QPSK	1	846	15.92	16.12	16.21				
20	QPSK	1	852	15.93	16.13	16.22				
20	QPSK	1	858	15.94	16.14	16.23				
20	QPSK	1	864	15.95	16.15	16.24				
20	QPSK	1	870	15.96	16.16	16.25				
20	QPSK	1	876	15.97	16.17	16.26				
20	QPSK	1	882	15.98	16.18	16.27				
20	QPSK	1	888	15.99	16.19	16.28				
20	QPSK	1	894	16.00	16.20	16.29				
20	QPSK	1	900							

Ant0 DS3 Simultaneous Power									
GSM850		Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
TX Channel		128	189	251	Limit (dBm)	128	189	251	Limit (dBm)
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		31.90	31.77	31.62	32.50	22.90	22.77	22.62	23.50
GPRS 1 Tx slot		31.87	31.73	31.57	32.50	22.87	22.73	22.57	23.50
GPRS 2 Tx slots		28.62	28.43	28.81	29.50	22.62	22.43	22.81	23.50
GPRS 3 Tx slots		26.81	26.91	26.69	27.70	22.55	22.65	22.43	23.44
GPRS 4 Tx slots		25.21	25.37	25.18	26.50	22.21	22.37	22.18	23.50
EDGE 1 Tx slot		26.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots		23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots		22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots		20.60	20.72	20.73	22.00	17.69	17.72	17.73	19.00

Ant0 DS3 Simultaneous Power								
GSM1900	Burst Average Power (dBm)			Tune-up	Frame-Average Power (dBm)			Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.92	21.57	21.54	23.50	12.92	12.57	12.54	14.50
GPRS 1 Tx slot	21.82	21.61	21.63	23.50	12.82	12.61	12.63	14.50
GPRS 2 Tx slots	19.29	19.13	19.25	20.50	13.29	13.13	13.25	14.50
GPRS 3 Tx slots	17.47	17.28	17.55	18.70	13.21	13.02	13.29	14.44
GPRS 4 Tx slots	16.48	16.69	16.51	17.50	13.48	13.69	13.51	14.50
EDGE 1 Tx slot	22.37	22.25	22.34	23.50	13.37	13.25	13.34	14.50
EDGE 2 Tx slots	19.26	19.29	19.35	20.50	13.26	13.29	13.35	14.50
EDGE 3 Tx slots	17.42	17.36	17.55	18.70	13.16	13.10	13.29	14.44
EDGE 4 Tx slots	16.04	15.89	16.13	17.50	13.04	12.89	13.13	14.50

Ant0 DS3 Simultaneous Power				Ant0 DS3 Simultaneous Power				Ant0 DS3 Simultaneous Power			
Band		WCDMA II		Tune-up Limit (dBm)	WCDMA IV		Tune-up Limit (dBm)	WCDMA V		Tune-up Limit (dBm)	
TX Channel	Rx Channel	9662	9460 9538		1312 1413 1513	1537 1638 1738		4157 4187 4233			
Frequency (MHz)		1852.4	1880 1907.6	1712.4	1723.6	1732.6	4367	4407	4468		
3GPP Rel 99	AMR 12.2kps	14.62	14.37 14.59	16.00	15.14 15.21	15.13	16.10	22.25	22.21 22.24		
3GPP Rel 99	RMC 12.2kps	14.59	14.63 14.42	16.00	15.15 15.27	15.09	16.10	22.23	22.35 22.30		
3GPP Rel 6	HSDPA Subset-1	13.76	13.73 13.83	16.00	14.38 14.50	14.32	16.10	21.16	21.15 21.16		
3GPP Rel 6	HSDPA Subset-2	13.79	13.72 13.81	16.00	14.13 14.52	14.30	16.10	21.14	21.09 21.19		
3GPP Rel 6	HSDPA Subset-3	13.27	13.18 13.33	15.50	13.90 14.00	13.83	15.60	20.64	20.60 20.68		
3GPP Rel 6	HSDPA Subset-4	13.20	13.23 13.41	15.50	13.87 13.98	13.81	15.60	20.59	20.65 20.71		
3GPP Rel 8	DC-HSDPA Subset-1	13.55	13.52 13.54	16.00	14.27 14.36	14.11	16.10	21.02	21.00 20.84		
3GPP Rel 8	DC-HSDPA Subset-2	13.65	13.41 13.51	16.00	14.11 14.42	14.18	16.10	21.06	20.90 20.96		
3GPP Rel 8	DC-HSDPA Subset-3	13.15	12.97 13.17	15.50	13.77 13.69	13.74	15.60	20.51	20.50 20.59		
3GPP Rel 8	DC-HSDPA Subset-4	12.88	13.11 13.32	15.50	13.77 13.83	13.63	15.60	20.50	20.47 20.41		
3GPP Rel 6	HSUPA Subset-1	13.54	13.61 13.58	16.00	14.34 14.25	14.16	16.10	21.16	21.18 21.30		
3GPP Rel 6	HSUPA Subset-2	11.49	11.33 11.31	14.00	13.33 13.46	13.24	14.10	19.06	19.13 19.16		
3GPP Rel 6	HSUPA Subset-3	12.30	12.34 12.26	15.00	13.39 13.29	13.34	15.10	20.26	20.17 20.13		
3GPP Rel 6	HSUPA Subset-4	11.21	11.16 11.29	14.00	13.32 13.52	13.28	14.10	19.06	19.16 19.17		
3GPP Rel 6	HSUPA Subset-5	13.62	13.56 13.59	16.00	14.24 14.16	14.30	16.10	21.22	21.17 21.36		



Band 2 Ant0 DS13 Simultaneous Power												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power Main Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up Time (s)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	14.58	14.57	14.56						
20	QPSK	1	49	14.57	14.42	14.53	15.8	0				
20	QPSK	1	99	14.40	14.42	14.45						
20	QPSK	50	0	14.23	14.49	14.19						
20	QPSK	50	24	14.31	14.28	14.32	15.8	0				
20	QPSK	50	50	14.23	14.21	14.23						
20	QPSK	100	0	14.27	14.44	14.30						
20	HQDM	1	49	14.33	14.54	14.39	15.8	0				
20	HQDM	1	99	14.51	14.39	14.42						
20	HQDM	50	0	14.31	14.37	14.32						
20	HQDM	50	24	14.45	14.44	14.46	15.8	0				
20	HQDM	50	50	14.34	14.45	14.35						
20	HQDM	100	0	14.55	14.38	14.51						
20	HQDM	1	0	14.31	14.50	14.40						
20	HQDM	1	49	14.46	14.45	14.48	15.8	0				
20	HQDM	50	99	14.26	14.42	14.38						
20	HQDM	50	0	14.40	14.35	14.38						
20	HQDM	50	24	14.49	14.50	14.46	15.8	0				
20	HQDM	50	50	14.28	14.41	14.34						
20	HQDM	100	0	14.42	14.32	14.42						
20	HQDM	1	49	14.47	14.48	14.42						
20	HQDM	1	99	14.30	14.36	14.29	15.8	0				
20	HQDM	50	24	14.34	14.43	14.40						
20	HQDM	50	50	14.43	14.41	14.48	15.8	0				
20	HQDM	100	0	14.34	14.40	14.44						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.07	18.00	18.03						
15	QPSK	1	37	14.58	14.60	14.53						
15	QPSK	1	87	14.63	14.48	14.52	15.8	0				
15	QPSK	1	74	14.35	14.37	14.38						
15	QPSK	36	0	14.19	14.44	14.15						
15	QPSK	25	0	14.28	14.21	14.28						
15	QPSK	36	36	14.17	14.16	14.20	15.8	0				
15	QPSK	75	0	14.19	14.42	14.22						
15	HQDM	1	49	14.49	14.48	14.42						
15	HQDM	1	37	14.31	14.49	14.33	15.8	0				
15	HQDM	36	0	14.34	14.37	14.35						
15	HQDM	36	20	14.42	14.42	14.39	15.8	0				
15	HQDM	75	0	14.40	14.29	14.35						
15	HQDM	1	0	14.28	14.45	14.35						
15	HQDM	37	14.42	14.36	14.38	15.8	0					
15	HQDM	1	74	14.23	14.37	14.34						
15	HQDM	36	0	14.33	14.29	14.34						
15	HQDM	36	20	14.46	14.47	14.43	15.8	0				
15	HQDM	36	36	14.22	14.31	14.25						
15	HQDM	75	0	14.40	14.28	14.34						
15	HQDM	1	49	14.20	14.39	14.29						
15	HQDM	1	37	14.44	14.34	14.41	15.8	0				
15	HQDM	1	74	14.25	14.31	14.22						
15	HQDM	36	20	14.37	14.38	14.35						
15	HQDM	36	20	14.28	14.40	14.38	15.8	0				
15	HQDM	36	36	14.39	14.39	14.40						
15	HQDM	75	0	14.12	14.38	14.25						
Channel												
Frequency (MHz)												
10	QPSK	1	0	14.63	14.60	14.63						
10	QPSK	1	25	14.54	14.48	14.50	15.8	0				
10	QPSK	1	49	14.37	14.38	14.40						
10	QPSK	25	0	14.17	14.48	14.14						
10	QPSK	25	12	14.27	14.24	14.27	15.8	0				
10	QPSK	25	25	14.15	14.17	14.18						
10	QPSK	50	0	14.22	14.27	14.24						
10	HQDM	1	0	14.47	14.48	14.47						
10	HQDM	1	25	14.27	14.50	14.33	15.8	0				
10	HQDM	1	49	14.44	14.38	14.41						
10	HQDM	25	0	14.38	14.28	14.34						
10	HQDM	25	12	14.44	14.45	14.42						
10	HQDM	25	25	14.21	14.33	14.30						
10	HQDM	50	0	14.37	14.30	14.36						
10	HQDM	50	0	14.22	14.33	14.28						
10	HQDM	1	25	14.40	14.37	14.38	15.8	0				
10	HQDM	1	49	14.23	14.42	14.21						
10	HQDM	25	0	14.40	14.24	14.31						
10	HQDM	25	12	14.30	14.36	14.33	15.8	0				
10	HQDM	25	25	14.37	14.36	14.43						
10	HQDM	50	0	14.27	14.33	14.32						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18.02	18.00	18.01						
5	QPSK	1	12	14.55	14.44	14.49	15.8	0				
5	QPSK	1	24	14.37	14.39	14.41						
5	QPSK	12	0	14.17	14.46	14.13						
5	QPSK	12	7	14.24	14.18	14.29	15.8	0				
5	QPSK	12	13	14.17	14.19	14.20						
5	QPSK	25	0	14.03	14.40	14.20						
5	HQDM	1	0	14.48	14.48	14.50						
5	HQDM	1	12	14.28	14.50	14.34	15.8	0				
5	HQDM	1	24	14.44	14.34	14.41						
5	HQDM	12	0	14.25	14.31	14.26						
5	HQDM	12	7	14.42	14.41	14.43	15.8	0				
5	HQDM	12	13	14.28	14.42	14.32						
5	HQDM	25	0	14.44	14.29	14.38						
5	HQDM	1	0	14.24	14.43	14.35						
5	HQDM	1	12	14.41	14.43	14.42	15.8	0				
5	HQDM	1	24	14.22	14.38	14.33						
5	HQDM	12	0	14.37	14.28	14.31						
5	HQDM	12	7	14.43	14.45	14.40						
5	HQDM	12	13	14.25	14.37	14.31	15.8	0				
5	HQDM	25	0	14.40	14.29	14.34						
5	HQDM	1	0	14.18	14.29	14.24						
5	HQDM	1	12	14.42	14.38	14.37	15.8	0				
5	HQDM	1	24	14.24	14.33	14.21						
5	HQDM	12	0	14.39	14.22	14.29						
5	HQDM	12	7	14.37	14.36	14.42						
5	HQDM	12	13	14.35	14.39	14.40	15.8	0				
5	HQDM	25	0	14.30	14.34	14.40						
Channel												
Frequency (MHz)												
3	QPSK	1	0	14.55	14.63	14.54						
3	QPSK	1	8	14.55	14.44	14.49	15.8	0				
3	QPSK	1	14	14.33	14.39	14.40						
3	QPSK	8	0	14.16	14.42	14.13						
3	QPSK	8	4	14.25	14.22	14.26	15.8	0				
3	QPSK	8	7	14.17	14.18	14.17						
3	QPSK	15	0	14.21	14.38	14.25						
3	HQDM	1	0	14.47	14.50	14.47						
3	HQDM	1	8	14.28	14.51	14.34	15.8	0				
3	HQDM	1	14	14.48	14.35	14.42						
3	HQDM	8	0	14.27	14.32	14.27						
3	HQDM	8	4	14.41	14.36	14.38	15.8	0				
3	HQDM	8	7	14.32	14.38	14.29						
3	HQDM	15	0	14.44	14.33	14.37						
3	HQDM	1	0	14.26	14.44	14.34						
3	HQDM	1	8	14.27	14.40	14.27						
3	HQDM	1	14	14.49	14.38	14.44	15.8	0				
3	HQDM	8	0	14.21	14.38	14.34						
3	HQDM	8	4	14.46	14.43	14.42						
3	HQDM	8	7	14.34	14.38	14.33	15.8	0				
3	HQDM	15	0	14.37	14.27	14.38						
3	HQDM	1	0	14.16	14.31	14.20						
3	HQDM	1	8	14.26	14.36	14.29	15.8	0				
3	HQDM	1	14	14.27	14.36	14.22						
3	HQDM	8	0	14.37	14.24	14.30						
3	HQDM	8	4	14.38	14.40	14.32	15.8	0				
3	HQDM	8	7	14.37	14.38	14.43						
3	HQDM	15	0	14.30	14.31	14.41						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	14.52	14.60	14.52						
1.4	QPSK	1	8	14.52	14.40	14.45	15.8	0				
1.4	QPSK	1	16	14.32	14.38	14.40						
1.4	QPSK	3	0	14.19	14.45	14.17						
1.4	QPSK	3	8	14.28	14.21	14.27						
1.4	QPSK	3	16	14.17	14.15	14.19	15.8	0				
1.4	QPSK	9	0	14.20	14.41	14.25						
1.4	QPSK	9	8	14.31	14.34	14.30						
1.4	QPSK	9	16	14.26	14.31	14.34	15.8	0				
1.4	HQDM	1	0	14.45	14.52	14.50		</				

Band 7 Ant0 DS13 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Peak Ch / Freq.	Turn-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)				2560	25100	25350				
20	QPSK	1	0	13.99	14.10	14.13				
20	QPSK	1	40	14.09	14.03	13.91	15.2	0		
20	QPSK	1	80	14.08	14.06	13.98				
20	QPSK	50	0	13.91	14.08	13.88				
20	QPSK	50	24	14.01	14.02	14.00	15.2	0		
20	QPSK	50	50	14.05	13.92	13.98				
20	QPSK	100	0	13.99	14.07	13.83				
20	HQAM	1	0	13.71	13.77	13.79				
20	HQAM	1	40	13.87	13.94	13.88	15.2	0		
20	HQAM	1	80	13.92	13.96	13.87				
20	HQAM	50	0	13.88	13.98	13.96				
20	HQAM	50	24	13.99	14.02	14.00	15.2	0		
20	HQAM	50	50	14.01	13.88	13.96				
20	HQAM	100	0	13.97	13.99	13.86				
20	HQAM	1	0	13.77	13.93	13.84				
20	HQAM	1	40	13.86	13.88	13.86	15.2	0		
20	HQAM	1	80	13.97	13.98	13.96				
20	HQAM	50	0	13.91	13.93	13.89				
20	HQAM	50	24	14.00	14.05	14.02	15.2	0		
20	HQAM	50	50	14.00	14.07	13.98				
20	HQAM	100	0	13.99	13.94	13.90				
20	HQAM	1	0	13.75	13.82	13.79				
20	HQAM	1	40	13.85	13.74	13.85	15.2	0		
20	HQAM	1	80	13.93	13.89	13.94				
20	HQAM	50	24	13.78	13.84	13.81	15.2	0		
20	HQAM	50	50	13.86	13.91	13.87				
20	HQAM	100	0	14.02	13.90	13.90	Turn-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)				2602.5 <th>26100<th>26175<th>Turn-up limit (dB)</th><th>MPE (dB)</th><th colspan="2"></th></th></th>	26100 <th>26175<th>Turn-up limit (dB)</th><th>MPE (dB)</th><th colspan="2"></th></th>	26175 <th>Turn-up limit (dB)</th> <th>MPE (dB)</th> <th colspan="2"></th>	Turn-up limit (dB)	MPE (dB)		
15	QPSK	1	0	13.85	14.12	14.02				
15	QPSK	1	24	14.05	13.98	13.88	15.2	0		
15	QPSK	1	74	14.04	14.02	13.97				
15	QPSK	36	0	13.80	14.07	13.88				
15	QPSK	36	20	13.98	13.99	13.88	15.2	0		
15	QPSK	36	36	14.00	13.87	13.95				
15	QPSK	75	0	13.86	14.09	13.82				
15	HQAM	1	0	13.66	13.74	13.75				
15	HQAM	1	37	13.85	13.90	13.82	15.2	0		
15	HQAM	1	74	13.73	13.92	13.72				
15	HQAM	36	0	13.84	13.94	13.86				
15	HQAM	36	20	13.98	13.99	13.98	15.2	0		
15	HQAM	36	36	13.99	13.84	13.91				
15	HQAM	75	0	13.94	13.97	13.83				
15	HQAM	1	0	13.75	13.82	13.82	15.2	0		
15	HQAM	1	37	13.89	13.84	13.86				
15	HQAM	1	74	13.95	13.96	13.91				
15	HQAM	36	0	13.88	13.90	13.80	15.2	0		
15	HQAM	36	20	13.97	13.86	13.91				
15	HQAM	36	36	13.99	14.05	13.94				
15	HQAM	75	0	13.96	13.80	13.88				
15	HQAM	1	0	13.73	13.80	13.82	15.2	0		
15	HQAM	1	37	13.82	13.70	13.82				
15	HQAM	1	74	13.90	13.87	13.90				
15	HQAM	36	0	13.75	13.86	13.87	15.2	0		
15	HQAM	36	20	13.79	13.90	13.90				
15	HQAM	36	36	13.82	13.88	13.82	15.2	0		
15	HQAM	75	0	13.98	13.88	13.88	Turn-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)				2680.0	26100	26160	Turn-up limit (dB)	MPE (dB)		
10	QPSK	1	0	13.88	14.08	14.04				
10	QPSK	1	25	14.06	13.99	13.87	15.2	0		
10	QPSK	1	49	14.04	14.02	13.98				
10	QPSK	25	0	13.87	14.04	13.86				
10	QPSK	25	12	13.96	13.99	13.99	15.2	0		
10	QPSK	25	25	14.03	13.90	13.98				
10	QPSK	50	0	13.99	14.08	13.89				
10	HQAM	1	0	13.70	13.75	13.74				
10	HQAM	1	25	13.84	13.89	13.84	15.2	0		
10	HQAM	1	49	13.90	13.92	13.88				
10	HQAM	25	0	13.89	13.92	13.98				
10	HQAM	25	12	13.96	14.01	13.97	15.2	0		
10	HQAM	25	25	13.96	13.83	13.98				
10	HQAM	50	0	13.93	13.95	13.81				
10	HQAM	1	0	13.76	13.90	13.81	15.2	0		
10	HQAM	1	25	13.92	13.82	13.85				
10	HQAM	1	49	13.95	13.97	13.94				
10	HQAM	25	0	13.89	13.89	13.83				
10	HQAM	25	12	13.97	14.00	13.98	15.2	0		
10	HQAM	25	25	13.99	14.04	13.98				
10	HQAM	50	0	13.97	13.93	13.86				
10	HQAM	1	0	13.72	13.88	13.72	15.2	0		
10	HQAM	1	25	13.84	13.70	13.82				
10	HQAM	1	49	13.89	13.87	13.89				
10	HQAM	25	0	13.75	13.82	13.85	15.2	0		
10	HQAM	25	12	13.82	13.91	13.89				
10	HQAM	25	25	13.83	13.89	13.82	15.2	0		
10	HQAM	50	0	13.98	13.88	13.98				
Channel										
Frequency (MHz)				2697.5	26100	26165	Turn-up limit (dB)	MPE (dB)		
5	QPSK	1	0	13.87	14.10	14.03				
5	QPSK	1	12	14.05	13.99	13.87	15.2	0		
5	QPSK	1	24	14.01	14.05	13.97				
5	QPSK	12	0	13.89	14.06	13.86				
5	QPSK	12	7	13.97	13.97	13.96	15.2	0		
5	QPSK	25	0	13.96	14.05	13.81				
5	HQAM	1	0	13.68	13.73	13.74				
5	HQAM	1	12	13.83	13.91	13.85	15.2	0		
5	HQAM	1	24	13.91	13.90	13.84				
5	HQAM	12	0	13.87	13.93	13.88				
5	HQAM	12	7	13.96	13.99	13.97	15.2	0		
5	HQAM	12	13	13.99	13.85	13.90				
5	HQAM	25	0	13.93	13.97	13.82				
5	HQAM	1	0	13.73	13.89	13.80	15.2	0		
5	HQAM	1	12	13.91	13.85	13.96				
5	HQAM	1	24	13.94	13.96	13.82				
5	HQAM	12	0	13.87	13.88	13.80				
5	HQAM	12	7	13.95	14.01	13.99	15.2	0		
5	HQAM	12	13	13.96	14.02	13.97				
5	HQAM	25	0	13.96	13.89	13.84				
5	HQAM	1	0	13.72	13.88	13.73	15.2	0		
5	HQAM	1	12	13.84	13.72	13.84				
5	HQAM	1	24	13.89	13.86	13.89	15.2	0		
5	HQAM	12	0	13.75	13.93	13.87				
5	HQAM	12	7	13.82	13.89	13.81	15.2	0		
5	HQAM	12	13	13.82	13.89	13.84				
5	HQAM	25	0	14.00	13.86	13.86				

Band 12 Ant0 DS13 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Peak Ch / Freq.	Turn-up limit (dB)	MPE (dB)		
Channel										
Frequency (MHz)				25605	25617	25635				
10	QPSK	1	0	22.68	22.93	22.76				
10	QPSK	1	25	22.81	22.84	22.73	23.5	0		
10	QPSK	1	49	22.78	22.77	22.82				
10	QPSK	25	0	22.82	22.86	22.82				
10	QPSK	25	12	22.85	22.84	22.78	23.5	0		
10	QPSK	25	25	22.81	22.80	22.89				
10	QPSK	25	49	22.77	22.76	22.85	23.5	0		
10	16QAM	1	49	22.78	22.73	22.74				
10	16QAM	25	0	22.76	22.86	22.89				
10	16QAM	25	12	22.83	22.79	22.82	23.5	0		
10	16QAM	25	25	22.83	22.79	22.78				
10	16QAM	25	49	22.74	22.77	22.84				
10	16QAM	25	73	22.65	22.79	22.84				
10	256QAM	1	0	19.09	19.38	19.08				
10	256QAM	1	25	18.96	19.32	19.02	20	3.5		
10	256QAM	1	49	19.24	19.38	19.10				
10	256QAM	25	0	19.40	19.38	19.42				
10	256QAM	25	12	19.48	19.44	19.36	20	3.5		
10	256QAM	25	25	19.47	19.41	19.37				
10	256QAM	25	49	19.35	19.38	19.29				
10	256QAM	25	73	19.16	19.36	19.04	20	3.5		
Channel				704	707.5	711	Turn-up limit (dB)	MPE (dB)		
5	QPSK	1	0	22.82	22.79	22.88	23.5	0		
5	QPSK	1	12	22.78	22.77	22.74				
5	QPSK	1	25	22.83	22.82	22.82				
5	QPSK	12	0	22.83	22.66	22.82				
5	QPSK	12	7	22.74	22.77	22.70	23.5	0		
5	QPSK	25	0	22.83	22.82	22.82				
5	16QAM	1	0	22.53	22.67	22.64				
5	16QAM	1	12	22.76	22.78	22.69	23.5	0		
5	16QAM	1	24	22.70	22.71	22.70				
5	16QAM	12	0	22.72	22.59	22.65				
5	16QAM	12	7	22.78	22.77	22.85	23.5	0		
5	16QAM	12	19	22.73	22.68	22.68				
5	16QAM	25	0	22.59	22.74	22.61				
5	16QAM	25	12	22.65	22.63	22.65	23.5	0		
5	16QAM	25	19	22.65	22.63	22.69				
5	16QAM	25	7	22.85	22.81	22.86	23.5	0		
5	256QAM	1	0	18.90	19.32	18.18				
5	256QAM	1	12	18.90	18.93	19.11	20	3.5		
5	256QAM	1	19	19.07	19.08	19.11				
5	256QAM	12	0	19.08	19.37	18.21				
5	256QAM	12	7	19.35	19.38	19.29	20	3.5		
5	256QAM	12	19	19.30	19.30	19.09				
5	256QAM	25	0	19.10	18.74	18.72				
Channel				25605	25605	25617	Turn-up limit (dB)	MPE (dB)		
Frequency (MHz)				25617	25617	25635				
3	QPSK	1	0	22.58	22.77	22.68				
3	QPSK	1	8	22.81	22.78	22.72	23.5	0		
3	QPSK	1	16	22.77	22.77	22.76				
3	QPSK	8	0	22.77	22.71	22.70				
3	QPSK	8	4	22.76	22.85	22.74	23.5	0		
3	QPSK	8	7	22.74	22.74	22.78				
3	QPSK	16	0	22.67	22.67	22.65				
3	16QAM	1	0	22.57	22.74	22.68				
3	16QAM	1	8	22.81	22.78	22.72	23.5	0		
3	16QAM	1	14	22.78	22.76	22.75				
3	16QAM	8	0	22.73	22.65	22.67				
3	16QAM	8	7	22.82	22.78	22.73	23.5	0		
3	16QAM	15	0	22.67	22.69	22.61				
3	16QAM	15	7	22.75	22.85	22.58				
3	16QAM	8	8	22.67	22.71	22.65	23.5	0		
3	QPSK	1	14	22.68	22.70	22.77				
3	QPSK	8	8	22.87	22.81	22.81				
3	QPSK	8	4	22.68	22.81	22.70	23.5	0		
3	QPSK	8	7	22.67	22.69	22.78				
3	256QAM	1	0	19.13	18.98	18.16				
3	256QAM	1	8	18.77	18.94	18.11				
3	256QAM	1	14	18.97	18.98	18.16				
3	256QAM	8	0	19.43	19.27	19.32				
3	256QAM	8	4	19.27	19.37	19.37	20	3.5		
3	256QAM	8	7	19.00	19.24	18.84				
3	256QAM	16	0	19.15	18.86	18.84				
Channel				25617	25605	25617	Turn-up limit (dB)	MPE (dB)		
Frequency (MHz)				25605	25617	25635				
1.4	QPSK	1	0	22.51	22.81	22.62				
1.4	QPSK	1	3	22.71	22.78	22.64	23.5	0		
1.4	QPSK	1	6	22.66	22.71	22.70				
1.4	QPSK	3	0	22.79	22.66	22.73				
1.4	QPSK	3	1	22.70	22.79	22.67				
1.4	QPSK	3	3	22.76	22.73	22.73				
1.4	QPSK	3	6	22.72	22.83	22.68				
1.4	16QAM	1	0	22.56	22.71	22.55				
1.4	16QAM	3	0	22.74	22.73	22.59	23.5	0		
1.4	16QAM	3	3	22.64	22.68	22.74				
1.4	16QAM	3	6	22.77	22.62	22.82				
1.4	16QAM	3	9	22.79	22.66	22.83	23.5	0		
1.4	16QAM	6	0	22.78	22.67	22.66				
1.4	16QAM	6	3	22.64	22.73	22.81				
1.4	16QAM	6	6	22.74	22.67	22.69				
1.4	16QAM	3	9	22.69	22.62	22.99	23.5	0		
1.4	256QAM	1	0	22.61	22.58	22.68				
1.4	256QAM	1	3	22.69	22.73	22.72	23.5	0		
1.4	256QAM	1	6	22.66	22.77	22.72				
1.4	256QAM	3	0	22.63	22.64	22.71				
1.4	256QAM	3	3	22.71	22.58	22.78				
1.4	256QAM	3	6	22.70	22.76	22.69				
1.4	256QAM	3	9	22.63	22.64	22.90	20	3.5		
1.4	256QAM	6	0	18.94	19.04	19.29				
1.4	256QAM	6	3	19.00	19.16	18.99				
1.4	256QAM	6	6	19.18	19.28	19.22				
1.4	256QAM	3	9	19.22	19.08	19.19	20	3.5		
1.4	256QAM	6	9	19.22	19.06	19.19				
1.4	256QAM	6	0	19.37	19.00	19.25				

Band 25 Ant0 DS3 Simultaneous Power														
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)														
20	QPSK	1	0	14.68	14.70	14.71	15.8	0						
20	QPSK	1	49	14.51	14.63	14.60								
20	QPSK	1	99	14.56	14.60	14.51								
20	QPSK	50	0	14.64	14.65	14.48	15.8	0						
20	QPSK	50	24	14.48	14.63	14.48								
20	QPSK	50	50	14.59	14.62	14.53								
20	QPSK	100	0	14.50	14.57	14.52	15.8	0						
20	QPSK	100	0	14.52	14.57	14.53								
20	QPSK	1	49	14.47	14.49	14.56								
20	16QAM	1	99	14.29	14.31	14.46	15.8	0						
20	16QAM	50	0	14.33	14.41	14.49								
20	16QAM	50	24	14.39	14.40	14.44								
20	16QAM	50	50	14.45	14.39	14.52	15.8	0						
20	16QAM	100	0	14.38	14.43	14.44								
20	16QAM	1	0	14.46	14.57	14.56								
20	64QAM	1	49	14.44	14.55	14.59	15.8	0						
20	64QAM	1	99	14.39	14.46	14.50								
20	64QAM	50	0	14.51	14.39	14.46								
20	64QAM	50	24	14.52	14.56	14.40	15.8	0						
20	64QAM	50	50	14.50	14.39	14.51								
20	64QAM	100	0	14.45	14.40	14.51								
20	256QAM	1	49	14.44	14.39	14.56	15.8	0						
20	256QAM	1	99	14.24	14.30	14.33								
20	256QAM	50	24	14.41	14.48	14.54								
20	256QAM	50	50	14.48	14.53	14.45	15.8	0						
20	256QAM	100	0	14.51	14.47	14.52								
Channel														
Frequency (MHz)														
16	QPSK	1	0	14.68	14.68	14.53	15.8	0						
16	QPSK	1	37	14.52	14.60	14.57								
16	QPSK	1	74	14.54	14.60	14.49								
16	QPSK	36	0	14.64	14.67	14.54	15.8	0						
16	QPSK	36	25	14.45	14.63	14.49								
16	QPSK	36	39	14.60	14.59	14.51								
16	QPSK	75	0	14.60	14.60	14.54	15.8	0						
16	16QAM	1	0	14.52	14.51	14.51								
16	16QAM	1	37	14.49	14.47	14.57								
16	16QAM	1	74	14.32	14.40	14.44	15.8	0						
16	16QAM	36	0	14.35	14.43	14.44								
16	16QAM	36	25	14.39	14.40	14.44								
16	16QAM	36	39	14.40	14.45	14.50	15.8	0						
16	16QAM	75	0	14.40	14.52	14.52								
16	64QAM	1	0	14.48	14.54	14.57	15.8	0						
16	64QAM	1	37	14.41	14.54	14.59								
16	64QAM	1	74	14.39	14.43	14.49								
16	64QAM	36	0	14.50	14.57	14.45	15.8	0						
16	64QAM	36	25	14.51	14.56	14.52								
16	64QAM	36	39	14.53	14.57	14.51								
16	64QAM	75	0	14.44	14.43	14.50	15.8	0						
16	256QAM	1	0	14.51	14.45	14.51								
16	256QAM	1	37	14.42	14.41	14.54								
16	256QAM	1	74	14.27	14.32	14.36	15.8	0						
16	256QAM	36	0	14.45	14.46	14.50								
16	256QAM	36	25	14.43	14.47	14.50								
16	256QAM	36	39	14.47	14.51	14.47	15.8	0						
16	256QAM	75	0	14.50	14.45	14.42								
Channel														
Frequency (MHz)														
10	QPSK	1	0	14.65	14.65	14.50	15.8	0						
10	QPSK	1	25	14.51	14.61	14.61								
10	QPSK	1	49	14.54	14.58	14.49								
10	QPSK	25	0	14.46	14.63	14.42	15.8	0						
10	QPSK	25	12	14.48	14.63	14.47								
10	QPSK	25	25	14.58	14.61	14.53								
10	QPSK	50	0	14.50	14.52	14.53	15.8	0						
10	16QAM	1	0	14.50	14.49	14.52								
10	16QAM	1	25	14.48	14.47	14.57								
10	16QAM	25	0	14.36	14.40	14.44	15.8	0						
10	16QAM	25	12	14.38	14.41	14.44								
10	16QAM	25	25	14.45	14.36	14.40								
10	16QAM	50	0	14.39	14.51	14.51	15.8	0						
10	64QAM	1	0	14.47	14.55	14.57								
10	64QAM	1	25	14.41	14.52	14.50								
10	64QAM	1	49	14.40	14.46	14.50	15.8	0						
10	64QAM	25	0	14.49	14.59	14.46								
10	64QAM	25	12	14.49	14.63	14.47								
10	64QAM	25	25	14.51	14.41	14.52	15.8	0						
10	64QAM	50	0	14.47	14.44	14.51								
10	64QAM	50	0	14.28	14.42	14.50								
10	256QAM	1	25	14.41	14.42	14.56	15.8	0						
10	256QAM	1	49	14.26	14.31	14.33								
10	256QAM	25	0	14.50	14.42	14.52								
10	256QAM	25	12	14.43	14.46	14.56	15.8	0						
10	256QAM	25	25	14.57	14.53	14.47								
10	256QAM	50	0	14.52	14.44	14.45								
Channel														
Frequency (MHz)														
5	QPSK	1	0	14.65	14.62	14.50	15.8	0						
5	QPSK	1	12	14.49	14.62	14.60								
5	QPSK	1	24	14.52	14.59	14.49								
5	QPSK	12	0	14.44	14.54	14.44	15.8	0						
5	QPSK	12	7	14.47	14.64	14.41								
5	QPSK	12	13	14.61	14.61	14.52								
5	QPSK	25	0	14.51	14.55	14.53	15.8	0						
5	16QAM	1	0	14.53	14.45	14.50								
5	16QAM	1	12	14.48	14.50	14.55								
5	16QAM	1	24	14.35	14.38	14.40	15.8	0						
5	16QAM	12	0	14.35	14.40	14.44								
5	16QAM	12	7	14.41	14.41	14.45								
5	16QAM	12	13	14.46	14.37	14.51	15.8	0						
5	16QAM	25	0	14.39	14.52	14.51								
5	16QAM	25	0	14.47	14.55	14.59								
5	64QAM	1	0	14.43	14.45	14.59	15.8	0						
5	64QAM	1	12	14.40	14.46	14.50								
5	64QAM	12	7	14.50	14.54	14.37								
5	64QAM	12	13	14.54	14.40	14.51	15.8	0						
5	64QAM	25	0	14.45	14.42	14.50								
5	256QAM	1	0	14.51	14.43	14.53								
5	256QAM	1	12	14.43	14.39	14.50	15.8	0						
5	256QAM	1	24	14.46	14.48	14.54								
5	256QAM	12	0	14.49	14.48	14.54								
5	256QAM	12	7	14.53	14.40	14.51	15.8	0						
5	256QAM	12	13	14.54	14.42	14.50								
5	256QAM	25	0	14.51	14.48	14.53								
5	256QAM	25	12	14.41	14.50	14.54	15.8	0						
5	256QAM	25	24	14.44	14.48	14.53								
5	256QAM	25	50	14.54	14.40	14.41								
							15.8	0						
Channel														
Frequency (MHz)														
18.75	QPSK	1	0	14.66	14.69	14.52	15.8	0						
18.75	QPSK	1	8	14.51	14.61	14.58								
18.75	QPSK	1	16	14.54	14.62	14.48								
18.75	QPSK	8	0	14.64	14.64	14.48	15.8	0						
18.75	QPSK	8	4	14.44	14.63	14.42								
18.75	QPSK	8	12	14.60	14.60	14.50								
18.75	QPSK	16	0	14.52	14.57	14.53	15.8	0						
18.75	QPSK	16	0	14.53	14.48	14.59								
18.75	QPSK	16	8	14.50	14.58	14.50								
18.75	16QAM	1	14	14.28	14.28	14.46	15.8	0						
18.75	16QAM	1	8	14.30	14.41	14.43								
18.75	16QAM	1	16	14.37	14.39	14.45								
18.75	16QAM	8	0	14.45	14.38	14.54	15.8	0						
18.75	16QAM	8	4	14.52	14.51	14.51								
18.75	16QAM	8	12	14.48	14.54	14.45								
18.75	64QAM	1	8	14.42	14.58	14.41	15.8	0						
18.75	64QAM	1	16	14.46	14.53	14.52								
18.75	64QAM	8	0	14.49	14.37	14.44								
18.75	64QAM	8	4	14.51	14.56	14.48	15.8	0						
18.75	64QAM	8	12	14.30	14.52	14.52								
18.75	64QAM	16	0	14.46	14.41	14.50								
18.75	256QAM	1	0	14.30	14.42	14.46	15.8	0						
18.75	256QAM	1	8	14.32	14.43	14.43								
18.75	256QAM	1	16	14.34	14.44	14.44								
18.75	256QAM	16	0	14.36	14.28	14.34	15.8	0						
18.75	256QAM	8	0	14.33	14.43	14.54								
18.75	256QAM	8	4	14.44	14.48	14.53								
18.75	256QAM	8	7	14.56	14.49	14.47	15.8	0						
18.75	256QAM	16	0	14.53	14.48	14.50								
18.75	256QAM	16	8	14.54	14.48	14.50								
							15.8	0						
Channel														
Frequency (MHz)														
18.75	QPSK	1	0	14.66	14.68	14.52	15.8	0						
18.75	QPSK	1	8	14.51	14.61	14.58								
18.75	QPSK	1	16	14.54	14.62	14.48								
18.75	QPSK	8	0	14.64	14.64	14.48	15.8	0						
18.75	QPSK	8	4	14.44	14.63	14.42								
18.75	QPSK	8	12	14.60	14.60	14.50								
18.75	QPSK	16	0	14.52	14.57	14.53	15.8	0						
18.75	QPSK	16	0	14.53	14.48	14.59								
18.75	QPSK	16	8	14.50	14.58	14.50								
18.75	16QAM	1	14	14.28	14.28	14.46	15.8	0						
18.75	16QAM	1	8	14.30	14.41	14.43								
18.75	16QAM	1	16	14.37	14.39	14.45								
18.75	16QAM	8	0	14.45	14.38	14.54	15.8	0						
18.75	16QAM	8												



Band 38 Ant0 DSI3 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	16.56	16.75	16.68	17.8	0		
20	QPSK	1	49	16.69	16.64	16.50				
20	QPSK	1	99	16.57	16.68	16.66				
20	QPSK	50	0	16.51	16.68	16.59				
20	QPSK	50	24	16.68	16.63	16.67				
20	QPSK	50	50	16.66	16.64	16.58	17.8	0		
20	QPSK	100	0	16.61	16.60	16.54				
20	16QAM	1	0	16.56	16.49	16.57				
20	16QAM	1	49	16.58	16.64	16.65				
20	16QAM	1	99	16.61	16.63	16.59				
20	16QAM	50	0	16.49	16.51	16.57	17.8	0		
20	16QAM	50	24	16.62	16.59	16.61				
20	16QAM	50	50	16.61	16.64	16.56				
20	16QAM	100	0	16.60	16.61	16.49				
20	64QAM	1	0	16.45	16.51	16.59	17.8	0		
20	64QAM	1	49	16.64	16.62	16.61				
20	64QAM	1	99	16.53	16.56	16.67				
20	64QAM	50	0	16.47	16.52	16.58				
20	64QAM	50	24	16.62	16.56	16.49				
20	64QAM	50	50	16.62	16.63	16.47	17.8	0		
20	64QAM	100	0	16.59	16.60	16.66				
20	256QAM	1	0	16.33	16.42	16.50				
20	256QAM	1	49	16.61	16.60	16.53				
20	256QAM	1	99	16.39	16.38	16.59	17.8	0		
20	256QAM	50	0	16.36	16.42	16.42				
20	256QAM	50	24	16.50	16.45	16.37				
20	256QAM	50	50	16.56	16.49	16.33				
20	256QAM	100	0	16.44	16.47	16.51				
Channel										
Frequency (MHz)				37855	38000	38175	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	16.58	16.72	16.68	17.8	0		
15	QPSK	1	37	16.67	16.63	16.49				
15	QPSK	1	74	16.57	16.69	16.68				
15	QPSK	36	0	16.51	16.69	16.59				
15	QPSK	36	20	16.68	16.61	16.68				
15	QPSK	36	39	16.65	16.66	16.57	17.8	0		
15	QPSK	75	0	16.65	16.66	16.56				
15	16QAM	1	0	16.53	16.53	16.55				
15	16QAM	1	37	16.59	16.66	16.66				
15	16QAM	1	74	16.64	16.65	16.59	17.8	0		
15	16QAM	36	0	16.49	16.53	16.55				
15	16QAM	36	20	16.62	16.60	16.49				
15	16QAM	36	39	16.63	16.64	16.57				
15	16QAM	75	0	16.60	16.60	16.48				
15	64QAM	1	0	16.54	16.54	16.56	17.8	0		
15	64QAM	1	37	16.64	16.61	16.63				
15	64QAM	1	74	16.51	16.57	16.66				
15	64QAM	36	0	16.48	16.50	16.57				
15	64QAM	36	20	16.64	16.56	16.51				
15	64QAM	36	39	16.64	16.60	16.50	17.8	0		
15	64QAM	75	0	16.58	16.60	16.66				
15	256QAM	1	0	16.36	16.40	16.54				
15	256QAM	1	37	16.57	16.60	16.53				
15	256QAM	1	74	16.35	16.41	16.57				
15	256QAM	36	0	16.33	16.43	16.41	17.8	0		
15	256QAM	36	20	16.50	16.47	16.37				
15	256QAM	36	39	16.57	16.56	16.35				
15	256QAM	75	0	16.45	16.45	16.32				
15	256QAM	75	0	16.45	16.45	16.32				
Channel										
Frequency (MHz)				37860	38000	38200	Tune-up limit (dBm)		MPR (dB)	
10	QPSK	1	0	16.59	16.71	16.68	17.8	0		
10	QPSK	1	18	16.68	16.65	16.51				
10	QPSK	1	49	16.54	16.67	16.66				
10	QPSK	25	0	16.53	16.71	16.60				
10	QPSK	25	12	16.70	16.62	16.66				
10	QPSK	25	25	16.66	16.67	16.59	17.8	0		
10	QPSK	50	0	16.64	16.67	16.54				
10	16QAM	1	0	16.53	16.49	16.59				
10	16QAM	1	25	16.60	16.68	16.66				
10	16QAM	1	49	16.63	16.66	16.59	17.8	0		
10	16QAM	25	0	16.49	16.49	16.62				
10	16QAM	25	12	16.64	16.58	16.62				
10	16QAM	25	25	16.62	16.62	16.57				
10	16QAM	50	0	16.60	16.64	16.46				
10	64QAM	1	0	16.43	16.51	16.57	17.8	0		
10	64QAM	1	25	16.63	16.61	16.62				
10	64QAM	1	49	16.52	16.55	16.65				
10	64QAM	25	0	16.47	16.49	16.56				
10	64QAM	25	12	16.64	16.57	16.52				
10	64QAM	25	25	16.63	16.59	16.49	17.8	0		
10	64QAM	50	0	16.59	16.62	16.65				
10	256QAM	1	0	16.36	16.41	16.51				
10	256QAM	1	25	16.59	16.49	16.53				
10	256QAM	1	49	16.36	16.41	16.58				
10	256QAM	25	0	16.34	16.46	16.43	17.8	0		
10	256QAM	25	12	16.51	16.47	16.34				
10	256QAM	25	25	16.54	16.52	16.33				
10	256QAM	50	0	16.45	16.45	16.52				
10	256QAM	50	0	16.45	16.45	16.52				
Channel										
Frequency (MHz)				37775	38000	38025	Tune-up limit (dBm)		MPR (dB)	
5	QPSK	1	0	16.57	16.73	16.66	17.8	0		
5	QPSK	1	12	16.66	16.64	16.51				
5	QPSK	1	24	16.57	16.67	16.67				
5	QPSK	12	0	16.55	16.70	16.60				
5	QPSK	12	7	16.68	16.62	16.68				
5	QPSK	12	13	16.66	16.65	16.57	17.8	0		
5	QPSK	25	0	16.62	16.66	16.53				
5	16QAM	1	0	16.55	16.53	16.59				
5	16QAM	1	12	16.60	16.68	16.66				
5	16QAM	1	24	16.64	16.64	16.61	17.8	0		
5	16QAM	12	0	16.50	16.51	16.56				
5	16QAM	12	7	16.63	16.58	16.61				
5	16QAM	12	13	16.62	16.62	16.59				
5	16QAM	25	0	16.60	16.62	16.48				
5	64QAM	1	0	16.44	16.52	16.59	17.8	0		
5	64QAM	1	12	16.64	16.63	16.63				
5	64QAM	1	24	16.54	16.55	16.68				
5	64QAM	12	0	16.48	16.49	16.56				
5	64QAM	12	7	16.63	16.56	16.50				
5	64QAM	12	13	16.62	16.60	16.48	17.8	0		
5	64QAM	25	0	16.59	16.63	16.64				
5	256QAM	1	0	16.35	16.40	16.52				
5	256QAM	1	12	16.59	16.48	16.51				
5	256QAM	1	24	16.37	16.38	16.57				
5	256QAM	12	0	16.33	16.46	16.42	17.8	0		
5	256QAM	12	7	16.49	16.46	16.36				
5	256QAM	12	13	16.54	16.49	16.31				
5	256QAM	25	0	16.44	16.46	16.52				

Band 38 PC2 Ant0 DSI3 Simultaneous Power									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)				37860	38000	38150			
				2590	2595	2610			
20	QPSK	1	0	18.39	18.41	18.31	19.4	0	
20	QPSK	1	49	18.08	18.18	18.30			
20	QPSK	1	99	18.26	18.10	18.17			
20	QPSK	50	0	18.38	18.39	18.29			
20	QPSK	50	24	18.24	18.19	18.16			
20	QPSK	50	50	18.21	18.25	18.32	19.4	0	
20	QPSK	100	0	18.24	18.28	18.16			
20	16QAM	1	0	18.10	18.10	18.20			
20	16QAM	1	49	18.28	18.29	18.25	19.4	0	
20	16QAM	50	0	18.13	18.13	18.23			
20	16QAM	50	24	18.25	18.23	18.16			
20	16QAM	50	50	18.25	18.25	18.14	19.4	0	
20	16QAM	100	0	18.24	18.22	18.19			
20	16QAM	1	0	18.21	18.27	18.14			
20	16QAM	1	49	18.15	18.07	18.08	19.4	0	
20	16QAM	1	99	18.23	18.29	18.12			
20	16QAM	50	0	18.12	18.18	18.18			
20	16QAM	50	24	18.28	18.20	18.16	19.4	0	
20	16QAM	50	50	18.27	18.27	18.27			
20	16QAM	100	0	18.18	18.23	18.12			
20	256QAM	1	0	18.13	18.24	18.05	19.4	0	
20	256QAM	1	49	18.05	17.89	17.94			
20	256QAM	1	99	18.13	18.12	17.99			
20	256QAM	50	0	18.07	18.03	18.08			
20	256QAM	50	24	18.18	18.12	18.11			
20	256QAM	50	50	18.18	18.18	18.18	19.4	0	
20	256QAM	100	0	18.14	18.13	17.98			
Channel Frequency (MHz)				37865	39000	38175			
				25775	2595	2612.5			
15	QPSK	1	0	18.31	18.36	18.35	19.4	0	
15	QPSK	1	37	18.07	18.17	18.28			
15	QPSK	1	74	18.24	18.06	18.14			
15	QPSK	36	0	18.06	18.28	18.16			
15	QPSK	36	25	18.24	18.16	18.11			
15	QPSK	36	39	18.16	18.24	18.31	19.4	0	
15	QPSK	75	0	18.21	18.25	18.08			
15	16QAM	1	0	18.06	18.06	18.16			
15	16QAM	1	74	18.24	18.24	18.23	19.4	0	
15	16QAM	36	0	18.08	18.10	18.23			
15	16QAM	36	20	18.24	18.18	18.12			
15	16QAM	36	39	18.23	18.22	18.11	19.4	0	
15	16QAM	75	0	18.22	18.18	18.17			
15	16QAM	1	0	18.19	18.25	18.11			
15	16QAM	1	37	18.12	18.06	18.05	19.4	0	
15	16QAM	1	74	18.20	18.24	18.09			
15	16QAM	36	0	18.10	18.15	18.16			
15	16QAM	36	20	18.23	18.15	18.14	19.4	0	
15	16QAM	36	39	18.16	18.24	18.25			
15	16QAM	75	0	18.14	18.21	18.11			
15	256QAM	1	0	18.11	18.21	18.01	19.4	0	
15	256QAM	1	37	18.04	17.87	17.92			
15	256QAM	1	74	18.10	18.19	17.97			
15	256QAM	36	0	18.03	17.98	18.07			
15	256QAM	36	20	18.16	18.07	18.07			
15	256QAM	36	39	18.02	18.07	18.08	19.4	0	
15	256QAM	75	0	18.12	18.11	17.95			
Channel Frequency (MHz)				37860	39000	38000			
				2595	2595	2615			
10	QPSK	1	0	18.29	18.37	18.35	19.4	0	
10	QPSK	1	25	18.04	18.16	18.29			
10	QPSK	1	49	18.24	18.05	18.13			
10	QPSK	25	0	18.07	18.26	18.13			
10	QPSK	25	12	18.23	18.18	18.14			
10	QPSK	25	25	18.23	18.21	18.30	19.4	0	
10	QPSK	50	0	18.23	18.26	18.07			
10	16QAM	1	0	18.06	18.07	18.18			
10	16QAM	1	25	18.25	18.26	18.04	19.4	0	
10	16QAM	1	49	18.23	18.23	18.03			
10	16QAM	25	0	18.11	18.09	18.23			
10	16QAM	25	12	18.26	18.20	18.11	19.4	0	
10	16QAM	25	25	18.23	18.22	18.11			
10	16QAM	50	0	18.22	18.20	18.16			
10	16QAM	1	0	18.19	18.25	18.12	19.4	0	
10	16QAM	1	25	18.13	18.06	18.04			
10	16QAM	1	49	18.21	18.26	18.08			
10	16QAM	25	12	18.25	18.14	18.14	19.4	0	
10	16QAM	25	25	18.22	18.14	18.14			
10	16QAM	50	0	18.15	18.21	18.11			
10	256QAM	1	0	18.10	18.19	18.04	19.4	0	
10	256QAM	1	25	18.01	17.87	17.89			
10	256QAM	1	49	18.08	18.20	17.95			
10	256QAM	25	0	18.05	17.88	18.04			
10	256QAM	25	12	18.16	18.07	18.07			
10	256QAM	25	25	18.08	18.08	18.07	19.4	0	
10	256QAM	50	0	18.12	18.10	17.94			
Channel Frequency (MHz)				37775	38000	38025			
				25925	2595	2617.5			
5	QPSK	1	0	18.29	18.36	18.35	19.4	0	
5	QPSK	1	12	18.08	18.15	18.27			
5	QPSK	12	0	18.23	18.08	18.13			
5	QPSK	12	0	18.07	18.26	18.15			
5	QPSK	12	7	18.20	18.18	18.12			
5	QPSK	12	13	18.18	18.21	18.08	19.4	0	
5	QPSK	25	0	18.23	18.26	18.05			
5	16QAM	1	0	18.06	18.07	18.17			
5	16QAM	1	12	18.23	18.27	18.24	19.4	0	
5	16QAM	1	24	18.22	18.22	18.01			
5	16QAM	12	0	18.08	18.11	18.23			
5	16QAM	12	7	18.24	18.18	18.09	19.4	0	
5	16QAM	12	13	18.23	18.22	18.10			
5	16QAM	25	0	18.20	18.18	18.17			
5	16QAM	1	0	18.20	18.25	18.10	19.4	0	
5	16QAM	1	12	18.12	18.02	18.03			
5	16QAM	1	24	18.16	18.24	18.09			
5	16QAM	12	0	18.08	18.13	18.16	19.4	0	
5	16QAM	12	7	18.24	18.19	18.11			
5	16QAM	12	13	18.16	18.23	18.14			
5	16QAM	25	0	18.14	18.19	18.10	19.4	0	
5	256QAM	1	0	18.09	18.21	18.02			
5	256QAM	12	0	18.04	17.85	17.89			
5	256QAM	1	24	18.08	18.18	17.96	19.4	0	
5	256QAM	12	0	18.04	18.00	18.07			
5	256QAM	12	0	18.15	18.09	18.07			
5	256QAM	12	13	18.06	18.07	18.08			
5	256QAM	25	0	18.10	18.10	17.93			

Ant1 DS13 Simultaneous Power								
GSM850	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		129	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.85	31.78	31.73	32.60	22.85	22.78	22.73	23.60
GPRS 1 Tx slot	31.82	31.64	31.61	32.60	22.82	22.64	22.61	23.60
GPRS 2 Tx slots	28.93	28.79	28.76	29.60	22.93	22.79	22.76	23.60
GPRS 3 Tx slots	27.05	27.19	27.15	27.80	22.79	22.93	22.89	23.54
GPRS 4 Tx slots	25.45	25.68	25.55	26.60	22.45	22.68	22.55	23.60
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.48	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 DS13 Simultaneous Power				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	22.01	22.16	22.15	23.30
3GPP Rel 99 RMC 12.2Kbps	22.06	22.20	22.17	23.30
3GPP Rel 6 HSDPA Subtest-1	21.10	21.27	21.24	22.30
3GPP Rel 6 HSDPA Subtest-2	21.13	21.19	21.26	22.30
3GPP Rel 6 HSDPA Subtest-3	20.64	20.75	20.79	21.80
3GPP Rel 6 HSDPA Subtest-4	20.60	20.77	20.83	21.80
3GPP Rel 8 DC-HSDPA Subtest-1	20.95	20.96	21.00	22.30
3GPP Rel 8 DC-HSDPA Subtest-2	20.83	20.93	21.05	22.30
3GPP Rel 8 DC-HSDPA Subtest-3	20.45	20.56	20.55	21.80
3GPP Rel 8 DC-HSDPA Subtest-4	20.30	20.63	20.67	21.80
3GPP Rel 6 HSUPA Subtest-1	21.08	21.07	21.14	22.30
3GPP Rel 6 HSUPA Subtest-2	19.11	19.26	19.29	20.30
3GPP Rel 6 HSUPA Subtest-3	20.10	20.13	20.23	21.30
3GPP Rel 6 HSUPA Subtest-4	19.13	19.21	19.25	20.30
3GPP Rel 6 HSUPA Subtest-5	21.01	21.08	21.05	22.30



Band 2 Ant1 DS3 Simultaneous Power										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freq	Power Ch / Freq	Power Ch / Freq	Turn-on time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.18	16.21	15.98				
20	QPSK	1	49	16.13	16.16	15.97	17.7	0		
20	QPSK	1	99	15.98	15.91	15.86				
20	QPSK	50	0	15.95	15.12	15.90				
20	QPSK	24	15.93	15.86	15.81	15.77				
20	QPSK	50	50	15.96	15.90	15.87	17.7	0		
20	QPSK	100	0	15.82	15.02	15.75				
20	QPSK	50	0	15.93	15.84	15.79				
20	16QAM	1	49	15.79	15.84	15.80	17.7	0		
20	16QAM	1	99	15.80	15.84	15.84				
20	16QAM	1	99	15.85	15.74	15.70				
20	16QAM	50	24	15.93	15.79	15.80	17.7	0		
20	16QAM	50	50	15.80	15.71	15.71				
20	16QAM	100	0	15.94	15.89	15.80				
20	16QAM	1	49	15.85	15.98	15.80	17.7	0		
20	16QAM	1	99	15.85	15.74	15.70				
20	16QAM	50	0	15.79	15.75	15.71				
20	16QAM	50	24	15.86	15.79	15.81	17.7	0		
20	16QAM	50	50	15.80	15.71	15.71				
20	16QAM	100	0	15.85	15.78	15.78				
20	256QAM	1	49	15.80	15.65	15.60				
20	256QAM	1	99	15.84	15.90	15.80	17.7	0		
20	256QAM	1	99	15.88	15.69	15.67				
20	256QAM	50	0	15.77	15.82	15.80				
20	256QAM	50	24	15.89	15.88	15.80	17.7	0		
20	256QAM	50	50	15.79	15.62	15.61				
20	256QAM	100	0	15.75	15.64	15.61				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.17	18.80	19.15	Turn-on time (sec)	MFR (dB)		
15	QPSK	1	49	18.11	18.17	18.88	17.7	0		
15	QPSK	1	99	18.09	18.16	18.87				
15	QPSK	1	74	15.93	15.88	15.87				
15	QPSK	36	0	15.88	15.09	15.87				
15	QPSK	24	15.79	15.81	15.80	15.77				
15	QPSK	36	36	15.94	15.82	15.81	17.7	0		
15	QPSK	75	0	15.75	15.60	15.72				
15	16QAM	1	49	15.86	15.97	15.71				
15	16QAM	1	37	15.74	15.82	15.81	17.7	0		
15	16QAM	1	74	15.84	15.80	15.80				
15	16QAM	36	0	15.74	15.93	15.81				
15	16QAM	36	20	15.78	15.71	15.74	17.7	0		
15	16QAM	75	0	15.77	15.82	15.78				
15	16QAM	75	0	15.79	15.74	15.88				
15	16QAM	1	0	15.88	15.83	15.78				
15	16QAM	36	20	15.89	15.84	15.80	17.7	0		
15	16QAM	1	74	15.75	15.71	15.80				
15	16QAM	36	0	15.74	15.72	15.80				
15	16QAM	36	20	15.80	15.73	15.78	17.7	0		
15	16QAM	36	36	15.77	15.81	15.72				
15	16QAM	75	0	15.77	15.72	15.71				
15	256QAM	1	49	15.80	15.75	15.70	17.7	0		
15	256QAM	1	37	15.76	15.87	15.76				
15	256QAM	1	74	15.85	15.84	15.82				
15	256QAM	36	0	15.74	15.76	15.76	17.7	0		
15	256QAM	36	20	15.82	15.81	15.77				
15	256QAM	36	39	15.74	15.78	15.75	17.7	0		
15	256QAM	75	0	15.75	15.64	15.61				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.07	16.60	16.95	Turn-on time (sec)	MFR (dB)		
10	QPSK	1	25	16.08	16.09	16.08	17.7	0		
10	QPSK	1	49	15.95	15.87	15.80				
10	QPSK	1	99	15.98	15.89	15.80				
10	QPSK	25	12	15.78	15.82	15.80	17.7	0		
10	QPSK	25	25	15.90	15.84	15.83				
10	QPSK	50	0	15.84	15.71	15.71				
10	16QAM	1	0	15.86	15.98	15.77				
10	16QAM	1	25	15.73	15.78	15.82	17.7	0		
10	16QAM	1	49	15.84	15.79	15.80				
10	16QAM	25	0	15.73	15.92	15.72				
10	16QAM	25	12	15.80	15.75	15.78	17.7	0		
10	16QAM	25	25	15.78	15.81	15.78				
10	16QAM	50	0	15.79	15.75	15.73				
10	16QAM	1	0	15.81	15.83	15.78				
10	16QAM	1	25	15.89	15.81	15.80	17.7	0		
10	16QAM	1	49	15.81	15.81	15.81				
10	16QAM	25	0	15.74	15.71	15.91				
10	16QAM	25	12	15.83	15.77	15.80	17.7	0		
10	16QAM	25	25	15.73	15.94	15.84				
10	16QAM	50	0	15.83	15.72	15.73				
10	16QAM	50	0	15.85	15.83	15.74				
10	256QAM	1	25	15.80	15.88	15.81	17.7	0		
10	256QAM	1	49	15.81	15.80	15.80				
10	256QAM	1	99	15.71	15.78	15.78				
10	256QAM	25	12	15.81	15.81	15.78	17.7	0		
10	256QAM	25	25	15.76	15.79	15.78				
10	256QAM	50	0	15.78	15.71	15.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.11	16.11	16.15	Turn-on time (sec)	MFR (dB)		
5	QPSK	1	12	16.10	16.13	16.04	17.7	0		
5	QPSK	1	24	15.90	15.87	16.01				
5	QPSK	12	7	15.82	15.85	15.80				
5	QPSK	12	7	15.80	15.81	15.84	17.7	0		
5	QPSK	12	13	15.90	15.83	15.81				
5	QPSK	12	13	15.77	15.88	15.75				
5	16QAM	1	0	15.80	16.00	15.80				
5	16QAM	1	12	15.76	15.77	15.81	17.7	0		
5	16QAM	1	24	15.86	15.80	15.77				
5	16QAM	12	0	15.71	15.96	15.72				
5	16QAM	12	7	15.79	15.73	15.72	17.7	0		
5	16QAM	12	13	15.73	15.88	15.73				
5	16QAM	25	0	15.76	15.74	15.72				
5	16QAM	1	0	15.80	15.82	15.82	17.7	0		
5	16QAM	1	12	15.81	15.82	15.80				
5	16QAM	1	24	15.77	15.71	15.80				
5	16QAM	12	0	15.76	15.70	15.86				
5	16QAM	12	7	15.79	15.72	15.71	17.7	0		
5	16QAM	12	13	15.72	15.95	15.80				
5	16QAM	25	0	15.80	15.71	15.73				
5	16QAM	25	0	15.84	15.78	15.78				
5	256QAM	1	12	15.79	15.87	15.78	17.7	0		
5	256QAM	1	24	15.81	15.82	15.80				
5	256QAM	12	0	15.71	15.78	15.80				
5	256QAM	12	7	15.82	15.84	15.79	17.7	0		
5	256QAM	12	13	15.72	15.78	15.77				
5	256QAM	25	0	15.75	15.84	15.75				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.11	16.14	16.15	Turn-on time (sec)	MFR (dB)		
3	QPSK	1	8	16.08	16.08	16.02	17.7	0		
3	QPSK	1	14	15.82	15.85	15.86				
3	QPSK	8	0	15.80	15.80	15.87				
3	QPSK	8	4	15.75	15.79	15.84	17.7	0		
3	QPSK	15	0	15.79	15.88	15.84				
3	16QAM	1	0	15.89	16.02	15.78				
3	16QAM	1	8	15.75	15.78	15.81	17.7	0		
3	16QAM	1	14	15.83	15.76	15.77				
3	16QAM	8	0	15.94	15.94	15.72				
3	16QAM	8	4	15.78	15.72	15.75	17.7	0		
3	16QAM	8	4	15.72	15.94	15.73				
3	16QAM	15	0	15.79	15.71	15.71				
3	16QAM	1	0	15.87	15.82	15.79	17.7	0		
3	16QAM	1	15	15.89	15.96	15.86				
3	16QAM	1	14	15.78	15.71	15.89				
3	16QAM	8	0	15.72	15.72	15.72	17.7	0		
3	16QAM	8	4	15.83	15.75	15.78				
3	16QAM	8	7	15.77	15.87	15.72				
3	16QAM	15	0	15.79	15.72	15.73				
3	256QAM	1	0	15.83	15.81	15.74				
3	256QAM	1	8	15.80	15.83	15.83	17.7	0		
3	256QAM	1	14	15.81	15.87	15.80				
3	256QAM	8	0	15.72	15.77	15.80				
3	256QAM	8	4	15.81	15.85	15.82				
3	256QAM	8	7	15.74	15.77	15.74	17.7	0		
3	256QAM	15	0	15.80	15.70	15.94				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.14	16.14	16.15	Turn-on time (sec)	MFR (dB)		
1.4	QPSK	1	8	16.07	16.07	16.07	17.7	0		
1.4	QPSK	1	14	15.82	15.85	15.86				
1.4	QPSK	1	8	15.95	15.84	15.90				
1.4	QPSK	8	0	15.82	15.87	15.84	17.7	0		
1.4	QPSK	8	4	15.76	15.80	15.84				
1.4	QPSK	3	3	15.81	15.86	15.83				
1.4	QPSK	8	0	15.76	15.88	15.73	17.7	0		
1.4	QPSK	8	4	15.77	15.79	15.78				
1.4	16QAM	1	0	15.84	15.79	15.80				

Band 25 Ant1 DS13 Simultaneous Power																		
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20145	Power Mid Ch./Freq. 20145	Power High Ch./Freq. 20145	Turn-up time (sec)	MPR (dB)										
Channel																		
Frequency (MHz)																		
20	QPSK	1	0	16.48	16.67	16.45	17.7	0										
20	QPSK	1	49	16.52	16.45	16.48												
20	QPSK	1	99	16.60	16.51	16.55	17.7	0										
20	QPSK	50	0	16.40	16.62	16.58												
20	QPSK	50	24	16.48	16.52	16.58	17.7	0										
20	QPSK	50	50	16.51	16.50	16.57												
20	QPSK	100	0	16.22	16.65	16.48	17.7	0										
20	16QAM	50	0	16.52	16.45	16.47												
20	16QAM	1	49	16.42	16.45	16.35	17.7	0										
20	16QAM	1	99	16.47	16.49	16.41												
20	16QAM	50	0	16.32	16.63	16.45	17.7	0										
20	16QAM	50	24	16.36	16.54	16.29												
20	16QAM	50	50	16.45	16.36	16.46	17.7	0										
20	16QAM	100	0	16.52	16.52	16.29												
20	64QAM	1	49	16.44	16.34	16.40	17.7	0										
20	64QAM	50	0	16.35	16.35	16.45												
20	64QAM	50	24	16.50	16.36	16.41	17.7	0										
20	64QAM	50	50	16.41	16.40	16.52												
20	256QAM	1	49	15.95	15.95	15.98	17.7	0										
20	256QAM	1	99	16.07	16.03	16.06												
20	256QAM	50	0	16.44	16.18	16.39	17.7	0										
20	256QAM	50	24	15.82	16.03	16.14												
20	256QAM	50	50	16.12	15.81	15.91	17.7	0										
20	256QAM	100	0	16.11	16.08	16.10												
Channel																		
Frequency (MHz)																		
15	QPSK	1	0	16.42	16.64	16.39	17.7	0										
15	QPSK	1	37	16.50	16.44	16.44												
15	QPSK	1	74	16.58	16.48	16.49	17.7	0										
15	QPSK	36	0	16.36	16.59	16.56												
15	QPSK	36	25	16.44	16.28	16.46	17.7	0										
15	QPSK	36	39	16.48	16.48	16.53												
15	QPSK	75	0	16.19	16.61	16.44	17.7	0										
15	16QAM	1	16	16.48	16.44	16.44												
15	16QAM	1	37	16.39	16.42	16.31	17.7	0										
15	16QAM	1	74	16.14	16.48	16.38												
15	16QAM	36	0	16.28	16.59	16.42	17.7	0										
15	16QAM	36	20	16.30	16.51	16.26												
15	16QAM	36	39	16.40	16.38	16.45	17.7	0										
15	16QAM	75	0	16.38	16.38	16.30												
15	64QAM	1	0	16.48	16.49	16.24	17.7	0										
15	64QAM	1	37	16.39	16.39	16.39												
15	64QAM	1	74	16.26	16.53	16.37	17.7	0										
15	64QAM	36	0	16.55	16.47	16.46												
15	64QAM	36	20	16.47	16.52	16.47	17.7	0										
15	64QAM	36	39	16.40	16.38	16.45												
15	64QAM	75	0	16.65	16.41	16.36	17.7	0										
15	256QAM	1	16	16.06	16.03	16.14												
15	256QAM	1	37	15.90	15.70	15.90	17.7	0										
15	256QAM	1	74	16.02	16.00	16.01												
15	256QAM	50	0	16.35	16.35	16.35	17.7	0										
15	256QAM	50	20	15.83	15.95	16.00												
15	256QAM	36	39	16.08	15.78	15.89	17.7	0										
15	256QAM	75	0	16.06	16.06	16.06												
Channel																		
Frequency (MHz)																		
10	QPSK	1	0	16.53	16.60	16.42	17.7	0										
10	QPSK	1	25	16.49	16.40	16.43												
10	QPSK	1	49	16.55	16.48	16.50	17.7	0										
10	QPSK	36	0	16.33	16.59	16.53												
10	QPSK	36	25	16.42	16.26	16.43	17.7	0										
10	QPSK	36	39	16.49	16.47	16.53												
10	QPSK	75	0	16.15	16.60	16.43	17.7	0										
10	16QAM	1	0	16.47	16.45	16.45												
10	16QAM	1	25	16.38	16.42	16.32	17.7	0										
10	16QAM	1	49	16.45	16.45	16.35												
10	16QAM	36	0	16.27	16.60	16.46	17.7	0										
10	16QAM	36	12	16.32	16.51	16.25												
10	16QAM	36	25	16.40	16.49	16.33	17.7	0										
10	16QAM	36	39	16.39	16.49	16.27												
10	16QAM	75	0	16.49	16.49	16.27	17.7	0										
10	64QAM	1	49	16.28	16.31	16.41												
10	64QAM	25	0	16.48	16.48	16.43	17.7	0										
10	64QAM	25	12	16.49	16.33	16.42												
10	64QAM	25	25	16.39	16.37	16.47	17.7	0										
10	64QAM	75	0	16.55	16.30	16.54												
10	256QAM	1	16	16.11	16.14	16.14	17.7	0										
10	256QAM	1	25	16.08	16.08	16.12												
10	256QAM	1	49	16.04	16.12	16.03	17.7	0										
10	256QAM	25	12	16.03	15.84	16.06												
10	256QAM	25	25	16.06	15.79	15.86	17.7	0										
10	256QAM	75	0	16.06	16.01	16.01												
Channel																		
Frequency (MHz)																		
5	QPSK	1	0	16.01	16.12	15.96	17.7	0										
5	QPSK	1	12	16.19	16.16	16.06												
5	QPSK	1	24	16.02	16.14	16.20	17.7	0										
5	QPSK	12	7	16.17	16.07	16.08												
5	QPSK	12	7	16.02	16.06	16.06	17.7	0										
5	QPSK	25	13	16.06	15.99	16.02												
5	QPSK	25	13	16.06	15.99	16.02	17.7	0										
5	16QAM	1	0	16.12	16.12	15.77												
5	16QAM	1	12	16.10	16.10	16.10	17.7	0										
5	16QAM	1	24	16.02	16.17	15.84												
5	16QAM	12	0	16.07	16.04	16.06	17.7	0										
5	16QAM	12	13	16.06	15.98	16.04												
5	16QAM	12	13	15.98	16.03	16.00	17.7	0										
5	16QAM	25	0	15.94	16.07	16.14												
5	16QAM	25	13	16.05	15.95	16.01	17.7	0										
5	16QAM	1	12	16.16	16.03	16.17												
5	QPSK	1	24	16.01	16.07	16.03	17.7	0										
5	QPSK	1	37	16.13	16.13	16.06												
5	QPSK	12	7	16.18	16.02	16.04	17.7	0										
5	QPSK	12	13	16.07	15.90	15.81												
5	QPSK	25	0	15.97	16.01	16.01	17.7	0										
5	256QAM	1	0	15.81	15.91	15.70												
5	256QAM	1	12	15.99	16.00	15.96	17.7	0										
5	256QAM	1	24	15.96	15.87	15.91												
5	256QAM	12	0	15.90	16.06	15.96	17.7	0										
5	256QAM	12	13	15.94	15.99	15.98												
5	256QAM	12	13	15.94	15.99	16.01	17.7	0										
5	256QAM	25	0	15.87	16.14	15.87												
Channel																		
Frequency (MHz)																		
3	QPSK	1	0	16.44	16.63	16.42	17.7	0										
3	QPSK	1	49	16.48	16.40	16.43												
3	QPSK	1	99	16.55	16.46	16.50	17.7	0										
3	QPSK	8	0	16.38	16.56	16.55												
3	QPSK	8	4	16.42	16.29	16.46	17.7	0										
3	QPSK	8	13	16.49	16.48	16.50												
3	QPSK	16	0	16.17	16.61	16.45	17.7	0										
3	QPSK	1	0	16.48	16.48	16.44												
3	QPSK	1	49	16.52	16.45	16.48	17.7	0										
3	QPSK	1	99	16.60	16.51	16.55												
3	16QAM	1	14	16.42	16.47	16.36	17.7	0										
3	16QAM	8	0	16.26	16.59	16.54												
3	16QAM	8	4	16.30	16.50	16.49	17.7	0										
3	16QAM	8	13	16.36	16.49	16.47												
3	16QAM	1	1	16.32	16.51	16.26	17.7	0										
3	16QAM	1	3	16.39	16.31	16.31												
3	16QAM	1	8	16.48	16.47	16.26	17.7	0										
3	16QAM	1	16	16.48	16.47	16.26												
3	16QAM	1	8	16.28	16.33	16.38	17.7	0										
3	16QAM	1	3	16.37	16.42	16.25												
3	16QAM	1	8	16.48	16.48	16.44	17.7	0										
3	16QAM	1	16	16.50	16.50	16.46												
3	64QAM	1	8	16.46	16.51	16.44	17.7	0										
3	64QAM	1	16	16.51	16.51	16.47												
3	64QAM	8	0	16.46	16.33	16.39	17.7	0										
3	64QAM	8	4	16.50	16.38	16.35												
3	64QAM	16	0	16.51	16.38	16.35	17.7	0										
3	256QAM	1	0	16.08	16.15	15.84												
3	256QAM	1	8	16.10	16.14	16.03	17.7	0										
3	256QAM	1	14	16.04	16.39	16.03												
3	256QAM	8	0	16.07	16.22	15.92	17.7	0										
3	256QAM	8	4	16.14	16.03	16.03												
3	256QAM	8	7	16.08	16.77	16.08	17.7	0										
3	256QAM	15	0	16.09	16.03	16.01												
Channel																		
Frequency (MHz)																		
1.4	QPSK	1	0	16.45	16.65	16.42	17.7	0										
1.4	QPSK	1	49	16.49	16.42	16.45												
1.4	QPSK	1	0	16.52	16.48	16.52	17.7	0										
1.4	QPSK	1	3	16.34	16.59	16.52												
1.4	QPSK	1	0	16.27	16.62	16.48	17.7	0										
1.4	QPSK	3	3	16.45	16.48	16.23												
1.4	QPSK	0	2	16.20	16.60	16.44	17.7	0										
1.4	QPSK	1	0	16.43	16.43	16.43												
1.4	QPSK	1	3	16.37	16.42	16.25	17.7	0										
1.4	16QAM	1	0	16.41	16.40	16.38												
1.4	16QAM	1	0	16.39	16.58	16.40												



Band 38 Ant1 DSI3 Simultaneous Power													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)					
Channel Frequency (MHz)													
				37850	38000	38150							
				2585	2595	2610							
20	QPSK	1	0	16.28	16.42	16.36	17.9	0					
20	QPSK	1	49	16.37	16.33	16.19							
20	QPSK	1	99	16.23	16.29	16.38							
20	QPSK	50	0	16.21	16.39	16.30							
20	QPSK	50	24	16.30	16.33	16.36	17.9	0					
20	QPSK	50	50	16.35	16.37	16.28							
20	QPSK	100	0	16.33	16.36	16.25							
20	16QAM	1	0	16.25	16.20	16.26							
20	16QAM	1	49	16.30	16.37	16.35	17.9	0					
20	16QAM	1	99	16.32	16.34	16.31							
20	16QAM	50	0	16.19	16.22	16.26							
20	16QAM	50	24	16.33	16.29	16.28							
20	16QAM	50	50	16.30	16.33	16.28	17.9	0					
20	16QAM	100	0	16.31	16.31	16.17							
20	64QAM	1	0	16.14	16.32	16.35							
20	64QAM	1	49	16.34	16.30	16.34	17.9	0					
20	64QAM	1	99	16.23	16.26	16.36							
20	64QAM	50	0	16.19	16.21	16.27							
20	64QAM	50	24	16.34	16.28	16.22							
20	64QAM	50	50	16.32	16.30	16.19	17.9	0					
20	64QAM	100	0	16.29	16.33	16.36							
20	256QAM	1	0	16.07	16.10	16.24							
20	256QAM	1	49	16.29	16.26	16.24	17.9	0					
20	256QAM	1	99	16.07	16.12	16.29							
20	256QAM	50	0	16.04	16.13	16.14							
20	256QAM	50	24	16.28	16.26	16.25							
20	256QAM	50	50	16.24	16.22	16.04	17.9	0					
20	256QAM	100	0	16.13	16.15	16.21							
Channel Frequency (MHz)													
				37775	38000	38025							
				2577.5	2595	2612.5							
15	QPSK	1	0	16.26	16.40	16.32	17.9	0					
15	QPSK	1	37	16.33	16.32	16.14							
15	QPSK	1	74	16.22	16.37	16.33							
15	QPSK	36	0	16.19	16.36	16.28							
15	QPSK	36	20	16.34	16.30	16.31	17.9	0					
15	QPSK	36	39	16.32	16.34	16.23							
15	QPSK	75	0	16.31	16.36	16.22							
15	16QAM	1	0	16.22	16.35	16.32							
15	16QAM	1	37	16.29	16.35	16.33	17.9	0					
15	16QAM	1	74	16.31	16.32	16.29							
15	16QAM	36	0	16.15	16.18	16.24							
15	16QAM	36	20	16.20	16.17	16.21							
15	16QAM	36	39	16.26	16.31	16.27	17.9	0					
15	16QAM	75	0	16.28	16.30	16.15							
15	64QAM	1	0	16.10	16.17	16.23							
15	64QAM	1	37	16.31	16.25	16.32	17.9	0					
15	64QAM	1	74	16.20	16.22	16.31							
15	64QAM	36	0	16.17	16.16	16.23							
15	64QAM	36	20	16.21	16.16	16.19							
15	64QAM	36	39	16.28	16.29	16.17	17.9	0					
15	64QAM	75	0	16.26	16.26	16.22							
15	256QAM	1	0	16.04	16.07	16.22							
15	256QAM	1	74	16.25	16.17	16.21	17.9	0					
15	256QAM	1	74	16.05	16.08	16.26							
15	256QAM	36	0	16.01	16.08	16.11							
15	256QAM	36	20	16.17	16.14	16.02							
15	256QAM	36	39	16.23	16.19	16.01	17.9	0					
15	256QAM	75	0	16.12	16.11	16.17							
Channel Frequency (MHz)													
				37775	38000	38025							
				2577.5	2595	2617.5							
10	QPSK	1	0	16.26	16.39	16.32	17.9	0					
10	QPSK	1	25	16.33	16.30	16.18							
10	QPSK	1	49	16.21	16.35	16.37							
10	QPSK	25	0	16.17	16.35	16.26							
10	QPSK	25	12	16.35	16.31	16.35	17.9	0					
10	QPSK	25	25	16.33	16.34	16.26							
10	QPSK	50	0	16.30	16.34	16.24							
10	16QAM	1	0	16.21	16.16	16.23							
10	16QAM	1	25	16.28	16.34	16.33	17.9	0					
10	16QAM	1	49	16.29	16.30	16.28							
10	16QAM	25	0	16.18	16.21	16.22							
10	16QAM	25	12	16.30	16.26	16.23							
10	16QAM	25	25	16.29	16.30	16.24	17.9	0					
10	16QAM	50	0	16.26	16.29	16.14							
10	64QAM	1	0	16.13	16.18	16.25							
10	64QAM	1	25	16.30	16.27	16.25	17.9	0					
10	64QAM	1	49	16.20	16.22	16.31							
10	64QAM	25	0	16.15	16.18	16.23							
10	64QAM	25	12	16.32	16.25	16.20							
10	64QAM	25	25	16.29	16.27	16.15	17.9	0					
10	64QAM	50	0	16.26	16.32	16.34							
10	256QAM	1	0	16.04	16.06	16.22							
10	256QAM	1	25	16.25	16.18	16.19	17.9	0					
10	256QAM	1	49	16.04	16.11	16.26							
10	256QAM	25	0	16.01	16.09	16.09							
10	256QAM	25	12	16.19	16.15	16.03							
10	256QAM	25	25	16.20	16.18	16.02	17.9	0					
10	256QAM	50	0	16.11	16.12	16.19							
Channel Frequency (MHz)													
				37775	38000	38025							
				2577.5	2595	2617.5							
5	QPSK	1	0	16.25	16.38	16.33	17.9	0					
5	QPSK	1	12	16.35	16.32	16.14							
5	QPSK	1	24	16.22	16.38	16.34							
5	QPSK	12	0	16.16	16.36	16.26							
5	QPSK	12	7	16.35	16.30	16.35	17.9	0					
5	QPSK	12	13	16.32	16.34	16.25							
5	QPSK	25	0	16.29	16.37	16.22							
5	16QAM	1	0	16.24	16.17	16.23							
5	16QAM	1	12	16.26	16.36	16.31	17.9	0					
5	16QAM	1	24	16.28	16.33	16.30							
5	16QAM	12	0	16.14	16.21	16.25							
5	16QAM	12	7	16.31	16.24	16.24							
5	16QAM	12	13	16.27	16.31	16.28	17.9	0					
5	16QAM	25	0	16.27	16.28	16.15							
5	64QAM	1	0	16.12	16.20	16.22							
5	64QAM	1	12	16.31	16.28	16.33	17.9	0					
5	64QAM	1	24	16.18	16.21	16.33							
5	64QAM	12	0	16.17	16.18	16.26							



Band 42 Ant2 DS13 Simultaneous Power											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Time-up time (min)	MPE (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	13.58	13.75	13.88	14.9	0			
20	QPSK	1	49	13.69	13.87	13.98					
20	QPSK	1	98	13.61	13.53	13.46					
20	QPSK	1	49	13.56	13.57	13.58					
20	QPSK	50	0	13.51	13.52	13.53	14.9	0			
20	QPSK	50	24	13.38	13.50	13.52					
20	QPSK	50	0	13.57	13.57	13.57					
20	QPSK	50	0	13.57	13.57	13.57					
20	QPSK	100	0	13.41	13.49	13.47	14.9	0			
20	QPSK	1	49	13.56	13.56	13.56					
20	QPSK	1	98	13.59	13.89	13.57					
20	QPSK	1	49	13.56	13.57	13.56					
20	QPSK	50	0	13.51	13.48	13.57	14.9	0			
20	QPSK	50	24	13.51	13.50	13.51					
20	QPSK	50	0	13.50	13.50	13.50					
20	QPSK	50	0	13.49	13.49	13.49					
20	QPSK	100	0	13.49	13.50	13.50	14.9	0			
20	QPSK	100	0	13.49	13.50	13.50					
20	QPSK	100	0	13.49	13.50	13.50					
20	QPSK	100	0	13.49	13.50	13.50					
Frequency (MHz)											
15	QPSK	1	0	13.58	13.68	13.64	14.9	0			
15	QPSK	1	37	13.41	13.53	13.65					
15	QPSK	1	74	13.65	13.56	13.45					
15	QPSK	1	37	13.54	13.48	13.56					
15	QPSK	36	0	13.61	13.61	13.61	14.9	0			
15	QPSK	36	36	13.49	13.55	13.50					
15	QPSK	36	0	13.57	13.57	13.57					
15	QPSK	36	0	13.63	13.50	13.43					
15	QPSK	1	0	13.46	13.46	13.46	14.9	0			
15	QPSK	1	37	13.55	13.55	13.55					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.41	13.43					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49	13.49	13.49	14.9	0			
15	QPSK	1	37	13.58	13.58	13.58					
15	QPSK	1	74	13.49	13.49	13.49					
15	QPSK	1	37	13.53	13.43	13.45					
15	QPSK	36	0	13.57	13.43	13.55	14.9	0			
15	QPSK	36	36	13.49	13.53	13.57					
15	QPSK	36	0	13.57	13.50	13.45					
15	QPSK	36	0	13.69	13.63	13.57					
15	QPSK	1	0	13.49							

Ant0 DS18 Power									
GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			
TX Channel		128	189	251			128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		32.26	32.56	32.73	33.50	23.26	23.56	23.73	24.50
GPRS 1 Tx slot		32.25	32.53	32.72	33.50	23.25	23.53	23.72	24.50
GPRS 2 Tx slots		29.34	29.23	29.27	30.00	23.34	23.23	23.27	24.50
GPRS 3 Tx slots		28.11	28.28	28.26	29.50	23.85	24.02	24.00	25.24
GPRS 4 Tx slots		26.52	26.32	26.27	27.50	23.52	23.32	23.27	24.50
EDGE 1 Tx slot		25.70	25.64	25.69	27.00	16.70	16.64	16.69	18.00
EDGE 2 Tx slots		23.92	23.95	24.02	25.00	17.92	17.95	18.02	19.00
EDGE 3 Tx slots		22.77	22.75	22.77	24.00	18.51	18.49	18.51	19.74
EDGE 4 Tx slots		20.69	20.72	20.73	22.00	17.69	17.72	17.73	19.00

Ant0 DS18 Power								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.05	30.06	29.96	30.50	21.05	21.06	20.96	21.50
GPRS 1 Tx slot	30.04	30.05	29.93	30.50	21.04	21.05	20.93	21.50
GPRS 2 Tx slots	26.82	26.35	26.66	27.50	20.82	20.35	20.66	21.50
GPRS 3 Tx slots	24.95	25.07	24.90	26.00	20.69	20.81	20.64	21.74
GPRS 4 Tx slots	23.21	23.32	23.28	24.00	20.21	20.32	20.28	21.00
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Ant0 DS18 Power													
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel	9262	9460	9538	1312		1413	1513	4132		4192	4233		
Rx Channel	9682	9800	9938	1537	1638	1738	4357	4407	4468				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1759.6	836.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	20.18	20.22	20.15	21.20	20.67	20.75	20.55	21.80	23.74	23.94	23.94	
3GPP Rel 99	RMC 12.2Kbps	20.19	20.25	20.21	21.20	20.71	20.77	20.61	21.80	23.76	23.99	23.96	
3GPP Rel 6	HSDPA Subtest-1	19.23	19.26	19.35	20.20	19.88	19.93	19.78	20.80	23.02	23.06	23.03	
3GPP Rel 6	HSDPA Subtest-2	19.25	18.89	19.28	20.20	19.87	19.92	19.75	20.80	22.62	23.04	23.03	
3GPP Rel 6	HSDPA Subtest-3	18.75	18.66	18.85	19.70	19.38	19.44	19.28	20.30	22.50	22.51	22.55	
3GPP Rel 6	HSDPA Subtest-4	18.74	18.68	18.48	19.70	19.37	19.44	19.24	20.30	22.61	22.55	22.51	
3GPP Rel 8	DC-HSDPA Subtest-1	18.99	18.96	19.17	20.20	19.67	19.84	19.46	20.80	22.78	22.85	22.78	
3GPP Rel 8	DC-HSDPA Subtest-2	19.13	18.79	19.18	20.20	19.57	19.89	19.68	20.80	22.38	22.76	22.89	
3GPP Rel 8	DC-HSDPA Subtest-3	18.51	18.35	18.55	19.70	19.06	19.29	19.00	20.30	22.26	22.27	22.24	
3GPP Rel 8	DC-HSDPA Subtest-4	18.47	18.39	18.38	19.70	19.14	19.19	19.14	20.30	22.29	22.21	22.30	
3GPP Rel 6	HSUPA Subtest-1	19.21	19.18	19.35	20.20	19.83	19.92	19.76	20.80	22.38	22.37	22.17	
3GPP Rel 6	HSUPA Subtest-2	17.16	17.24	17.26	18.20	17.82	17.96	17.72	18.80	21.00	21.01	20.98	
3GPP Rel 6	HSUPA Subtest-3	18.14	18.13	18.27	19.20	18.85	18.93	18.74	19.80	22.00	21.98	22.06	
3GPP Rel 6	HSUPA Subtest-4	17.22	17.17	17.31	18.20	17.68	17.89	17.76	18.80	20.99	20.98	20.83	
3GPP Rel 6	HSUPA Subtest-5	19.19	19.20	19.28	20.20	19.79	19.85	19.80	20.80	23.00	23.00	23.10	



Band 2 (1900MHz Band) Ant0 D516 Power										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.22	22.43	22.32			23.5	0
20	QPSK	1	49	22.32	22.26	22.38				
20	QPSK	1	99	22.31	22.40	22.28			23.5	0
20	QPSK	50	0	22.27	22.38	22.33				
20	QPSK	50	24	22.34	22.31	22.33			23.5	0
20	QPSK	50	50	22.26	22.36	22.16				
20	QPSK	100	0	22.31	22.38	22.34			23.5	0
20	HQAM	1	0	22.30	22.29	22.29				
20	HQAM	1	49	22.35	22.26	22.31			23.5	0
20	HQAM	1	99	22.19	22.05	22.21				
20	HQAM	50	0	22.25	22.26	22.26			23.5	0
20	HQAM	50	24	22.34	22.31	22.34				
20	HQAM	50	50	22.28	22.28	22.36			23.5	0
20	HQAM	100	0	22.29	22.28	22.34				
20	HQAM	1	0	22.35	22.37	22.26			23.5	0
20	HQAM	1	49	22.18	22.29	22.31				
20	HQAM	50	0	22.07	22.21	22.04			23.5	0
20	HQAM	50	24	22.12	22.11	22.14				
20	HQAM	50	50	22.06	22.07	22.16			23.5	0
20	HQAM	100	0	22.11	22.08	22.13				
20	HQAM	1	0	19.23	19.38	19.20			20	3.5
20	HQAM	1	49	19.23	19.30	19.25				
20	HQAM	1	99	19.13	19.21	19.27			20	3.5
20	HQAM	50	0	19.23	19.16	19.22				
20	HQAM	50	24	19.30	19.23	19.24			20	3.5
20	HQAM	50	50	19.16	19.13	19.28				
20	HQAM	100	0	19.22	19.23	19.15			20	3.5
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.07	18.00	18.03			23.5	0
15	QPSK	1	49	22.13	22.29	22.27				
15	QPSK	1	74	22.22	22.33	22.19			23.5	0
15	QPSK	36	0	22.19	22.33	22.20				
15	QPSK	36	20	22.23	22.17	22.15			23.5	0
15	QPSK	36	36	22.20	22.22	22.28				
15	QPSK	75	0	22.28	22.29	22.24			23.5	0
15	HQAM	1	0	22.14	22.15	22.14				
15	HQAM	1	37	22.27	22.18	22.18			23.5	0
15	HQAM	1	49	22.09	22.08	22.09				
15	HQAM	36	0	22.17	22.16	22.32			23.5	0
15	HQAM	36	20	22.26	22.25	22.25				
15	HQAM	36	36	22.21	22.22	22.22			23.5	0
15	HQAM	75	0	22.18	22.23	22.25				
15	HQAM	1	0	22.28	22.21	22.17			23.5	0
15	HQAM	37	0	22.04	22.36	22.05				
15	HQAM	1	74	22.09	22.15	22.23			23.5	0
15	HQAM	36	0	22.04	22.16	21.92				
15	HQAM	36	20	22.05	22.01	22.02			23.5	0
15	HQAM	36	36	21.90	22.02	22.03				
15	HQAM	75	0	22.00	21.88	22.08			23.5	0
15	HQAM	1	0	19.18	19.25	19.15				
15	HQAM	1	37	19.19	19.20	19.15			20	3.5
15	HQAM	1	74	18.99	19.05	19.14				
15	HQAM	36	0	19.08	19.06	19.16			20	3.5
15	HQAM	36	20	19.22	19.21	19.15				
15	HQAM	36	36	19.05	18.98	19.15			20	3.5
15	HQAM	75	0	19.20	19.03	19.15				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.11	22.40	22.26			23.5	0
10	QPSK	1	25	22.30	22.11	22.35				
10	QPSK	1	49	22.15	22.32	22.25			23.5	0
10	QPSK	25	0	22.19	22.30	22.23				
10	QPSK	25	12	22.27	22.23	22.30			23.5	0
10	QPSK	25	25	22.19	22.10	22.34				
10	QPSK	25	36	22.18	22.28	22.22			23.5	0
10	HQAM	1	0	22.27	22.06	22.19				
10	HQAM	1	25	22.24	22.20	22.17			23.5	0
10	HQAM	1	49	22.11	22.09	22.07				
10	HQAM	25	0	22.19	22.12	22.29			23.5	0
10	HQAM	25	12	22.30	22.23	22.29				
10	HQAM	25	25	22.18	22.14	22.33			23.5	0
10	HQAM	50	0	22.19	22.18	22.19				
10	HQAM	1	0	22.21	22.29	22.15			23.5	0
10	HQAM	1	25	22.02	22.13	22.05				
10	HQAM	1	49	22.19	22.16	22.24			23.5	0
10	HQAM	25	0	22.00	22.08	21.99				
10	HQAM	25	12	22.02	22.03	22.01			23.5	0
10	HQAM	25	25	21.97	22.01	22.01				
10	HQAM	50	0	22.03	21.99	22.04			23.5	0
10	HQAM	50	25	22.02	22.03	22.01				
10	HQAM	1	0	19.15	19.25	19.20			20	3.5
10	HQAM	1	25	19.21	19.16	19.17				
10	HQAM	1	49	19.08	19.06	19.16			20	3.5
10	HQAM	25	0	19.13	19.00	19.15				
10	HQAM	25	12	19.20	19.16	19.15			20	3.5
10	HQAM	25	25	19.13	19.11	19.14				
10	HQAM	50	0	19.08	19.02	19.08			20	3.5
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.16	22.39	22.28			23.5	0
5	QPSK	1	12	22.30	22.13	22.24				
5	QPSK	1	24	22.19	22.38	22.25			23.5	0
5	QPSK	12	0	22.24	22.38	22.30				
5	QPSK	12	7	22.28	22.20	22.19			23.5	0
5	QPSK	12	13	22.24	22.20	22.22				
5	QPSK	25	0	22.19	22.23	22.22			23.5	0
5	HQAM	1	0	22.15	22.10	22.25				
5	HQAM	1	12	22.27	22.14	22.15			23.5	0
5	HQAM	1	24	22.11	21.90	22.02				
5	HQAM	12	0	22.17	22.12	22.27			23.5	0
5	HQAM	12	7	22.31	22.16	22.22				
5	HQAM	12	13	22.26	22.24	22.30			23.5	0
5	HQAM	25	0	22.14	22.24	22.24				
5	HQAM	1	0	22.22	22.31	22.20			23.5	0
5	HQAM	1	12	22.03	22.19	22.28				
5	HQAM	1	24	22.14	22.11	22.28			23.5	0
5	HQAM	12	0	21.95	22.11	21.96				
5	HQAM	12	7	22.01	21.99	22.01			23.5	0
5	HQAM	12	13	21.93	21.96	22.11				
5	HQAM	25	0	22.03	22.08	22.07			23.5	0
5	HQAM	25	0	19.18	19.26	19.14				
5	HQAM	1	0	19.15	19.16	19.11			20	3.5
5	HQAM	1	24	19.08	19.15	19.21				
5	HQAM	12	0	19.17	19.05	19.16			20	3.5
5	HQAM	12	7	19.21	19.14	19.12				
5	HQAM	12	13	19.09	19.03	19.15			20	3.5
5	HQAM	25	0	19.19	19.03	19.20				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.21	22.33	22.25			23.5	0
3	QPSK	1	8	22.23	22.16	22.24				
3	QPSK	1	14	22.28	22.31	22.25			23.5	0
3	QPSK	8	0	22.13	22.38	22.25				
3	QPSK	8	4	22.20	22.24	22.22			23.5	0
3	QPSK	8	12	22.22	22.17	22.28				
3	QPSK	16	0	22.26	22.29	22.23			23.5	0
3	HQAM	1	0	22.26	22.11	22.16				
3	HQAM	1	8	22.25	22.19	22.20			23.5	0
3	HQAM	1	14	22.05	21.98	22.06				
3	HQAM	8	0	22.25	22.19	22.20			23.5	0
3	HQAM	8	4	22.25	22.20	22.24				
3	HQAM	8	7	22.20	22.18	22.28			23.5	0
3	HQAM	16	0	22.22	22.32	22.21				
3	HQAM	1	8	22.27	22.15	22.25			23.5	0
3	HQAM	1	14	22.27	22.18	22.18				
3	HQAM	8	0	21.98	22.14	22.03			23.5	0
3	HQAM	8	4	22.19	22.05	22.03				
3	HQAM	8	12	22.05	22.08	22.05			23.5	0
3	HQAM	16	0	22.05	22.05	22.10				
3	HQAM	1	0	19.17	19.23	19.18			20	3.5
3	HQAM	1	8	19.17	19.18	19.17				
3	HQAM	8	14	19.15	19.15	19.14			20	3.5
3	HQAM	16	0	19.17	19.17	19.17				
3	HQAM	8	7	19.04	19.01	19.22			20	3.5
3	HQAM	16	0	19.15	19.00	19.13				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.20	22.25	22.29			23.5	0
1.4	QPSK	1	8	22.24	22.16	22.24				
1.4	QPSK	1	15	22.27	22.33	22.26			23.5	0
1.4	QPSK	1	3	22.15	22.38	22.26				
1.4	QPSK	3	0	22.16	22.32	22.16			23.5	0
1.4	QPSK	3	3	22.16	22.17	22.21				
1.4	QPSK	6	0	22.15	22.28	22.22			23.5	0
1.4	QPSK	6	3	22.14	22.15	22.24				
1.4	HQAM	1	0	22.24	22.15	22.20			23.5	0
1.4	HQAM	1	3	22.17	22.24	22.30				
1.4	HQAM	3	0	22.07	22.18	22.18			23.5	0
1.4	HQAM	3	3	22.14	22.23	22.25				
1.4	HQAM	6	0	22.21	22.28	22.18			23.5	0
1.4	HQAM	6	3	22.18	22.17</					



Band 7 (2600MHz Band) Ant0 DS16 Power Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up Int. (dB)	MPE (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.21	23.46	23.40			
20	QPSK	1	48	23.42	23.67	23.62			
20	QPSK	1	96	23.35	23.37	23.34		24	0
20	QPSK	50	0	23.31	23.44	23.38			
20	QPSK	50	24	23.41	23.37	23.38			
20	QPSK	50	50	23.42	23.41	23.38		24	0
20	QPSK	100	0	23.21	23.40	23.35			
20	16QAM	1	0	23.13	23.37	23.35			
20	16QAM	1	48	23.35	23.41	23.38		24	0
20	16QAM	1	96	23.27	23.32	23.32			
20	16QAM	50	0	23.21	23.25	23.30			
20	16QAM	50	24	23.32	23.31	23.38		24	0
20	16QAM	50	50	23.40	23.39	23.40			
20	16QAM	100	0	23.40	23.38	23.42			
20	64QAM	1	0	23.14	23.38	23.31			
20	64QAM	1	48	23.35	23.32	23.40		24	0
20	64QAM	1	96	23.25	23.35	23.37			
20	64QAM	50	0	23.31	23.31	23.35			
20	64QAM	50	24	23.38	23.32	23.35		24	0
20	64QAM	50	50	23.38	23.43	23.40			
20	64QAM	100	0	23.39	23.35	23.40			
20	256QAM	1	0	19.86	20.21	20.24			
20	256QAM	1	48	20.14	20.08	20.12		21	3
20	256QAM	1	96	19.83	19.78	19.88			
20	256QAM	50	0	20.31	20.31	20.33			
20	256QAM	50	24	20.08	20.04	19.94		21	3
20	256QAM	50	50	20.13	20.14	20.11			
20	256QAM	100	0	20.05	20.09	20.06			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.18	23.44	23.35			
15	QPSK	1	37	23.36	23.37	23.37		24	0
15	QPSK	1	74	23.27	23.35	23.29			
15	QPSK	36	0	23.27	23.24	23.33			
15	QPSK	36	29	23.35	23.33	23.35		24	0
15	QPSK	36	39	23.34	23.36	23.43			
15	16QAM	1	0	23.17	23.29	23.44			
15	16QAM	1	0	23.11	23.34	23.39			
15	16QAM	1	37	23.28	23.34	23.27		24	0
15	16QAM	1	74	23.29	23.39	23.23			
15	16QAM	36	0	23.20	23.25	23.24			
15	16QAM	36	20	23.22	23.28	23.31		24	0
15	16QAM	36	29	23.39	23.20	23.39			
15	64QAM	1	0	23.12	23.33	23.24			
15	64QAM	1	37	23.35	23.32	23.32		24	0
15	64QAM	1	74	23.19	23.35	23.15			
15	64QAM	36	0	23.28	23.28	23.30			
15	64QAM	36	29	23.35	23.32	23.32		24	0
15	64QAM	36	39	23.29	23.33	23.32			
15	64QAM	75	0	23.29	23.14	23.21			
15	256QAM	1	0	19.84	19.88	19.85			
15	256QAM	1	37	19.83	20.20	20.11		21	3
15	256QAM	1	74	19.88	19.89	19.83			
15	256QAM	50	0	20.15	20.15	20.15			
15	256QAM	50	29	20.03	19.95	19.96		21	3
15	256QAM	36	39	19.98	20.21	20.01			
15	256QAM	75	0	19.87	19.86	19.85			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.05	23.30	23.05			
10	QPSK	1	25	23.11	23.32	23.32		24	0
10	QPSK	1	49	23.32	23.36	23.30			
10	QPSK	25	0	23.30	23.30	23.30			
10	QPSK	25	12	23.38	23.33	23.33		24	0
10	QPSK	25	25	23.39	23.43	23.38			
10	QPSK	25	37	23.37	23.38	23.38			
10	16QAM	1	0	23.11	23.35	23.33			
10	16QAM	1	25	23.32	23.39	23.30		24	0
10	16QAM	1	49	23.21	23.34	23.31			
10	16QAM	25	0	23.15	23.20	23.26			
10	16QAM	25	12	23.31	23.34	23.33		24	0
10	16QAM	25	25	23.33	23.32	23.37			
10	16QAM	50	0	23.38	23.19	23.38			
10	64QAM	1	0	23.06	23.37	23.27		24	0
10	64QAM	1	24	23.26	23.30	23.30			
10	64QAM	1	49	23.17	23.26	23.20			
10	64QAM	25	0	23.28	23.38	23.27			
10	64QAM	25	12	23.30	23.26	23.19			
10	64QAM	25	25	23.31	23.36	23.39		24	0
10	64QAM	50	0	23.30	23.16	23.31			
10	256QAM	1	0	20.08	20.27	20.28			
10	256QAM	1	25	20.08	19.95	20.15		21	3
10	256QAM	1	49	19.82	19.81	20.01			
10	256QAM	25	0	20.41	20.21	19.95			
10	256QAM	25	12	20.05	19.99	20.03		21	3
10	256QAM	25	25	20.16	20.06	19.95			
10	256QAM	50	0	20.14	20.27	19.84			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.15	23.39	23.30			
5	QPSK	1	12	23.33	23.28	23.32		24	0
5	QPSK	1	24	23.30	23.34	23.29			
5	QPSK	12	0	23.30	23.30	23.30			
5	QPSK	12	7	23.29	23.30	23.32		24	0
5	QPSK	12	13	23.35	23.38	23.35			
5	QPSK	25	0	23.17	23.28	23.38			
5	16QAM	1	0	23.06	23.31	23.27			
5	16QAM	1	12	23.29	23.34	23.28		24	0
5	16QAM	1	24	23.14	23.18	23.23			
5	16QAM	12	0	23.06	23.12	23.25			
5	16QAM	12	7	23.29	23.17	23.24		24	0
5	16QAM	12	13	23.28	23.29	23.38			
5	16QAM	25	0	23.28	23.18	23.29			
5	64QAM	1	0	23.07	23.35	23.22			
5	64QAM	1	12	23.20	23.20	23.25		24	0
5	64QAM	1	24	23.14	23.21	23.15			
5	64QAM	12	0	23.21	23.27	23.20			
5	64QAM	12	7	23.24	23.20	23.15		24	0
5	64QAM	12	13	23.24	23.33	23.33			
5	64QAM	25	0	23.23	23.14	23.31			
5	256QAM	1	0	19.93	20.11	20.27			
5	256QAM	1	12	20.10	19.80	19.81		21	3
5	256QAM	1	24	19.84	19.94	19.86			
5	256QAM	12	0	20.15	20.21	19.80			
5	256QAM	12	7	19.94	19.78	19.79		21	3
5	256QAM	12	13	20.27	20.21	19.84			
5	256QAM	25	0	19.91	20.07	19.85			

Band 12 (700MHz Low Band) Ant0 DS16 Power Part 27F(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-on and (dBm)	MPE (dB)
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.68	22.93	22.78			
10	QPSK	1	25	22.88	22.81	22.84		24	0
10	QPSK	1	49	22.85	22.79	22.84			
10	QPSK	25	0	22.89	22.92	22.90			
10	QPSK	25	12	22.90	22.81	22.83			
10	QPSK	25	25	22.87	22.88	22.89		24	0
10	QPSK	50	0	22.79	22.81	22.75			
10	16QAM	1	0	22.68	22.83	22.75			
10	16QAM	1	25	22.78	22.88	22.72		24	0
10	16QAM	1	49	22.82	22.77	22.77			
10	16QAM	25	0	22.83	22.70	22.89			
10	16QAM	25	12	22.87	22.83	22.81			
10	16QAM	25	25	22.88	22.82	22.82		24	0
10	16QAM	50	0	22.78	22.85	22.68			
10	64QAM	1	0	22.67	22.92	22.69			
10	64QAM	1	25	22.84	22.81	22.72		24	0
10	64QAM	1	49	22.77	22.77	22.75			
10	64QAM	25	0	22.86	22.72	22.87			
10	64QAM	25	12	22.80	22.88	22.79		24	0
10	64QAM	25	25	22.81	22.79	22.82			
10	64QAM	50	0	22.71	22.85	22.68			
10	256QAM	1	0	19.17	19.41	19.24			
10	256QAM	1	25	19.88	19.28	19.22		20	4
10	256QAM	1	49	19.31	19.28	18.85			
10	256QAM	25	0	19.45	19.45	19.45			
10	256QAM	25	12	19.87	19.00	19.40		20	4
10	256QAM	25	25	19.31	19.17	19.20			
10	256QAM	50	0	19.02	19.02	19.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.68	22.83	22.74			
5	QPSK	1	12	22.82	22.84	22.79			
5	QPSK	1	24	22.70	22.70	22.77			
5	QPSK	12	0	22.87	22.70	22.87		24	0
5	QPSK	12	7	22.81	22.85	22.77			
5	QPSK	12	14	22.83	22.83	22.76			
5	QPSK	25	0	22.70	22.85	22.77			
5	QPSK	25	7	22.60	22.74	22.67			
5	QPSK	25	14	22.68	22.68	22.64		24	0
5	QPSK	1	24	22.78	22.74	22.73			
5	16QAM	12	0	22.76	22.65	22.88			
5	16QAM	12	7	22.81	22.83	22.76			
5	16QAM	12	14	22.80	22.72	22.74		24	0
5	16QAM	25	0	22.66	22.81	22.68			
5	16QAM	25	7	22.68	22.68	22.63			
5	16QAM	1	12	22.78	22.73	22.63		24	0
5	16QAM	24	0	22.73	22.69	22.74			
5	16QAM	12	7	22.72	22.69	22.70			
5	16QAM	12	14	22.70	22.68	22.72			
5	16QAM	1	24	22.79	22.79	22.73			
5	16QAM	25	7	22.77	22.67	22.67		20	4
5	256QAM	1	0	19.01	19.36	19.25			
5	256QAM	1	12	19.90	19.07	19.27			
5	256QAM	1	24	19.31	19.31	18.85		20	4
5	256QAM	12	0	19.16	19.54	19.14			
5	256QAM	12	7	19.37	19.44	19.33			
5	256QAM	12	14	19.35	19.35	19.05		20	4
5	256QAM	25	0	19.17	19.76	19.75			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.80	22.84	22.72			
3	QPSK	1	8	22.89	22.88	22.77			
3	QPSK	1	16	22.78	22.77	22.65			
3	QPSK	8	0	22.83	22.78	22.80			
3	QPSK	8	8	22.80	22.80	22.79		24	0
3	QPSK	8	16	22.79	22.79	22.78			
3	16QAM	1	0	22.64	22.81	22.72			
3	16QAM	1	8	22.73	22.73	22.67			
3	16QAM	1	16	22.82	22.79	22.80			
3	16QAM	8	0	22.79	22.79	22.80		24	0
3	16QAM	8	8	22.78	22.78	22.80			
3	16QAM	8	16	22.77	22.78	22.80			
3	16QAM	1	24	22.82	22.79	22.80			
3	16QAM	8	24	22.72	22.75	22.79			
3	16QAM	1	14	22.73	22.75	22.80			
3	16QAM	8	14	22.76	22.76	22.80			
3	16QAM	8	22	22.77	22.74	22.80		24	0
3	16QAM	8	4	22.72	22.87	22.84			
3	16QAM	8	4	22.72	22.87	22.84			
3	256QAM	1	0	19.18	19.06	19.21			
3	256QAM	1	8	18.81	18.99	19.17			
3	256QAM	1	16	19.17	19.06	19.17			
3	256QAM	8	0	19.47	19.35	19.37		20	4
3	256QAM	8	8	19.54	19.44	19.43			
3	256QAM	8	16	19.13	19.28	19.28		20	4
3	256QAM	16	0	19.20	19.70	19.69			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.58	22.94	22.65			
1.4	QPSK	1	3	22.76	22.81	22.79			
1.4	QPSK	1	6	22.72	22.74	22.77		24	0
1.4	QPSK	1	9	22.82	22.78	22.80			
1.4	QPSK	3	1	22.77	22.82	22.74			
1.4	QPSK	3	4	22.80	22.77	22.77			
1.4	QPSK	3	7	22.76	22.76	22.76		24	0
1.4	16QAM	1	0	22.62	22.75	22.69			
1.4	16QAM	1	3	22.76	22.76	22.81			
1.4	16QAM	1	6	22.71	22.76	22.80			
1.4	16QAM	3	0	22.80	22.68	22.85			
1.4	16QAM	3	3	22.73	22.72	22.69			
1.4	16QAM	3	6	22.85	22.74	22.71			
1.4	16QAM	6	0	22.68	22.81	22.64			
1.4	16QAM	6	3	22.72	22.72	22.72			
1.4	16QAM	3	9	22.75	22.65	22.64			
1.4	16QAM	3	12	22.68	22.62	22.70			
1.4	16QAM	3	15	22.86	22.76	22.76			
1.4	16QAM	3	18	22.72	22.85	22.76			
1.4	16QAM	3	21	22.70	22.67	22.76			
1.4	16QAM	3	24	22.78	22.54	22.64		20	4
1.4	16QAM	1	15	19.16	19.23	19.06			
1.4	256QAM	1	3	18.97	19.02	18.96			
1.4	256QAM	1	6	19.14	19.14	18.96			
1.4	256QAM	1	9	19.14	19.14	18.96			
1.4	256QAM	3	0	19.54	19.33	19.25			
1.4	256QAM	3	1	19.27	19.13	19.25			
1.4	256QAM	3	2	19.26	19.14	19.25			
1.4	256QAM	6	0	19.43	19.08	19.31	20	4	



Band 25 (1900MHz Band) Ant0 DS16 Power Part 24E											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 26145	Power High Ch./Freq. 26145	Power Max Ch./Freq. 26145	Power Min Ch./Freq. 26145	Turn-up time (sec)	MPE (dB)		
Channel											
1800 1880 1900											
20	QPSK	1	0	22.22	22.51	22.51		23.5	0		
20	QPSK	1	49	22.05	22.11	22.09					
20	QPSK	1	99	22.06	22.11	22.08					
20	QPSK	50	0	21.97	22.05	22.05					
20	QPSK	50	24	21.87	21.98	21.98		23.5	0		
20	QPSK	50	50	21.86	21.95	21.94					
20	QPSK	100	0	21.89	22.02	21.85					
20	16QAM	1	0	21.74	21.89	21.89		23.5	0		
20	16QAM	1	49	21.85	21.81	21.82					
20	16QAM	1	99	21.71	21.89	21.79					
20	16QAM	50	0	21.87	21.82	21.82					
20	16QAM	50	24	21.92	21.99	21.88					
20	16QAM	50	50	21.84	21.91	21.86		23.5	0		
20	16QAM	100	0	21.94	21.87	21.85					
20	16QAM	1	0	21.90	22.01	21.90					
20	16QAM	1	49	21.99	21.97	22.01		23.5	0		
20	16QAM	50	0	21.18	21.25	21.18					
20	16QAM	50	24	21.05	21.18	21.05					
20	16QAM	50	50	21.09	21.18	21.05		23.5	0		
20	16QAM	100	0	20.88	20.87	20.79					
20	256QAM	1	0	19.01	19.19	19.05		20	3.5		
20	256QAM	1	99	19.10	19.14	19.09					
20	256QAM	50	0	18.99	19.07	18.99					
20	256QAM	50	24	19.05	19.00	19.05					
20	256QAM	50	50	18.89	18.98	18.93		20	3.5		
20	256QAM	100	0	19.07	19.01	18.98					
Channel											
1807.5 1880 1907.5											
15	QPSK	1	0	22.08	22.17	22.10		23.5	0		
15	QPSK	1	37	21.92	22.03	21.92					
15	QPSK	1	74	21.95	21.96	22.02					
15	QPSK	36	0	21.80	21.80	21.82					
15	QPSK	25	0	21.72	21.82	21.75					
15	QPSK	36	36	21.87	21.83	21.79		23.5	0		
15	QPSK	75	0	21.76	21.80	21.76					
15	16QAM	1	0	21.59	21.83	21.74					
15	16QAM	1	37	21.75	21.68	21.71		23.5	0		
15	16QAM	1	74	21.89	21.80	21.86					
15	16QAM	36	0	21.75	21.70	21.68					
15	16QAM	36	20	21.83	21.86	21.80		23.5	0		
15	16QAM	36	39	21.76	21.81	21.81					
15	16QAM	75	0	21.84	21.72	21.78					
15	16QAM	1	0	21.75	21.64	21.82		23.5	0		
15	16QAM	37	0	21.86	21.66	21.82					
15	16QAM	1	74	21.81	21.85	21.85					
15	16QAM	36	0	21.11	21.18	21.06					
15	16QAM	36	20	20.94	21.09	21.04		22.5	1		
15	16QAM	36	39	20.95	21.00	20.91					
15	16QAM	75	0	20.76	20.75	20.63					
15	16QAM	1	0	19.05	19.05	18.96					
15	256QAM	1	37	18.97	19.02	18.98		20	3.5		
15	256QAM	1	74	18.94	19.05	19.02					
15	256QAM	50	0	18.74	18.94	18.86					
15	256QAM	50	24	18.93	18.93	18.90					
15	256QAM	36	39	18.77	18.89	18.86		20	3.5		
15	256QAM	75	0	19.00	19.00	18.94					
Channel											
26060 26060 26060											
10	QPSK	1	0	22.12	22.14	22.14					
10	QPSK	1	25	21.96	22.04	21.94		23.5	0		
10	QPSK	1	49	21.94	22.04	21.97					
10	QPSK	25	0	21.99	21.98	21.97					
10	QPSK	25	12	21.78	21.89	21.81		23.5	0		
10	QPSK	25	25	21.85	21.86	21.83					
10	QPSK	25	37	21.78	21.87	21.81					
10	16QAM	1	0	21.65	21.78	21.67					
10	16QAM	1	25	21.82	21.68	21.71		23.5	0		
10	16QAM	1	49	21.69	21.78	21.78					
10	16QAM	25	0	21.79	21.66	21.72					
10	16QAM	25	12	21.78	21.86	21.74		23.5	0		
10	16QAM	25	25	21.71	21.84	21.80					
10	16QAM	50	0	21.79	21.72	21.79					
10	16QAM	1	0	21.83	21.89	21.83					
10	16QAM	1	25	21.85	21.86	21.82		23.5	0		
10	16QAM	1	49	21.82	21.84	21.74					
10	16QAM	25	0	21.05	21.18	21.04					
10	16QAM	25	12	20.91	21.03	20.92					
10	16QAM	25	25	21.01	21.06	20.94		22.5	1		
10	16QAM	50	0	20.76	20.77	20.69					
10	256QAM	1	0	19.00	19.00	18.94					
10	256QAM	1	25	18.89	19.09	18.93		20	3.5		
10	256QAM	1	49	18.96	19.05	19.00					
10	256QAM	50	0	18.78	18.95	18.90					
10	256QAM	25	12	18.86	18.90	18.87					
10	256QAM	25	25	18.78	18.81	18.85		20	3.5		
10	256QAM	50	0	18.93	18.91	18.91					
Channel											
26065 26065 26065											
5	QPSK	1	0	22.12	22.13	22.13					
5	QPSK	1	12	21.92	22.04	22.01		23.5	0		
5	QPSK	1	24	21.99	22.03	21.97					
5	QPSK	12	0	21.89	21.95	21.95					
5	QPSK	12	7	21.80	21.84	21.85		23.5	0		
5	QPSK	12	13	21.89	21.82	21.81					
5	QPSK	25	0	21.77	21.88	21.81					
5	16QAM	1	0	21.81	21.76	21.68					
5	16QAM	1	12	21.81	21.73	21.68		23.5	0		
5	16QAM	1	24	21.59	21.82	21.65					
5	16QAM	12	0	21.81	21.73	21.68					
5	16QAM	12	7	21.77	21.83	21.81		23.5	0		
5	16QAM	12	13	21.75	21.75	21.81					
5	16QAM	25	0	21.83	21.72	21.74					
5	16QAM	1	0	21.83	21.92	21.85					
5	16QAM	1	12	21.82	21.91	21.88		23.5	0		
5	16QAM	1	24	21.80	21.87	21.77					
5	16QAM	12	0	21.07	21.19	21.10					
5	16QAM	12	7	20.97	21.07	20.92					
5	16QAM	12	13	20.94	21.06	20.98		22.5	1		
5	16QAM	25	0	20.76	20.79	20.69					
5	256QAM	1	0	19.01	19.11	19.02					
5	256QAM	1	12	18.93	19.09	18.93		20	3.5		
5	256QAM	1	24	19.03	19.03	19.00					
5	256QAM	12	0	18.79	18.98	18.88					
5	256QAM	12	7	18.92	18.94	18.98					
5	256QAM	12	13	18.85	18.88	18.91		20	3.5		
5	256QAM	25	0	18.95	18.88	18.90					
Channel											
1807.5 1880 1907.5											
3	QPSK	1	0	22.13	22.15	22.15					
3	QPSK	1	8	21.97	22.03	22.01		23.5	0		
3	QPSK	1	16	21.99	22.03	22.03					
3	QPSK	8	0	21.82	21.90	21.87					
3	QPSK	8	4	21.71	21.88	21.78		23.5	0		
3	QPSK	8	8	21.80	21.82	21.82					
3	QPSK	16	0	21.77	21.90	21.77					
3	16QAM	1	0	21.61	21.73	21.71		23.5	0		
3	16QAM	1	8	21.65	21.72	21.69					
3	16QAM	1	16	21.63	21.79	21.69					
3	16QAM	8	0	21.79	21.68	21.71		23.5	0		
3	16QAM	8	4	21.78	21.78	21.78					
3	16QAM	8	7	21.75	21.75	21.81					
3	16QAM	16	0	21.77	21.86	21.77					
3	16QAM	1	0	21.77	21.87	21.77					
3	16QAM	8	8	21.85	21.80	21.88		23.5	0		
3	16QAM	8	16	21.86	21.81	21.86					
3	16QAM	8	6	21.03	21.17	21.10					
3	16QAM	8	4	20.92	21.07	20.96		22.5	1		
3	16QAM	16	0	20.77	20.77	20.69					
3	256QAM	1	0	19.04	19.09	19.00					
3	256QAM	1	8	18.92	19.09	18.96		20	3.5		
3	256QAM	1	16	19.03	19.03	19.00					
3	256QAM	8	0	18.79	18.99	18.93					
3	256QAM	8	4	18.74	18.93	18.89					
3	256QAM	8	7	18.81	18.81	18.89		20	3.5		
3	256QAM	8	7	18.83	18.80	18.90					
3	256QAM	16	0	18.92	18.90	18.90					
Channel											
1807.5 1880 1907.5											
1.4	QPSK	1	0	22.15	22.09	22.03		23.5	0		
1.4	QPSK	1	8	22.05	22.05	22.05					
1.4	QPSK	1	16	21.92	21.95	21.98		23.5	0		
1.4	QPSK	3	0	21.87	21.98	21.87					
1.4	QPSK	3	8	21.75	21.87	21.75					



Band 38(only on channel required) Ant0 DSI6 Power										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	23.23	23.49	23.26			24	0
20	QPSK	1	49	23.42	23.42	23.30				
20	QPSK	1	99	23.36	23.35	23.30				
20	QPSK	50	0	23.17	23.43	23.22				
20	QPSK	50	24	23.26	23.37	23.26			24	0
20	QPSK	50	50	23.34	23.32	23.27				
20	QPSK	100	0	23.27	23.39	23.34				
20	16QAM	1	0	23.17	23.46	23.21				
20	16QAM	1	49	23.37	23.37	23.24			24	0
20	16QAM	1	99	23.33	23.31	23.25				
20	16QAM	50	0	23.12	23.40	23.16				
20	16QAM	50	24	23.34	23.37	23.23				
20	16QAM	50	50	23.31	23.28	23.21			24	0
20	16QAM	100	0	23.23	23.23	23.30				
20	64QAM	1	0	23.14	23.43	23.17				
20	64QAM	1	49	23.32	23.33	23.19			24	0
20	64QAM	1	99	23.29	23.27	23.20				
20	64QAM	50	0	23.10	23.36	23.12				
20	64QAM	50	24	23.32	23.31	23.18				
20	64QAM	50	50	23.25	23.24	23.15			24	0
20	64QAM	100	0	23.20	23.20	23.28				
20	256QAM	1	0	21.25	21.39	21.32				
20	256QAM	1	49	21.22	20.96	21.24			22	2
20	256QAM	1	99	21.00	21.23	21.19				
20	256QAM	50	0	21.02	21.28	21.28				
20	256QAM	50	24	21.43	21.49	21.34			22	2
20	256QAM	50	50	21.48	21.39	21.18				
20	256QAM	100	0	21.20	20.91	21.28				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	23.19	23.47	23.24			24	0
15	QPSK	1	37	23.38	23.39	23.26				
15	QPSK	1	74	23.33	23.32	23.27				
15	QPSK	36	0	23.14	23.39	23.19				
15	QPSK	36	20	23.35	23.38	23.20			24	0
15	QPSK	36	39	23.31	23.28	23.24				
15	QPSK	75	0	23.21	23.24	23.29				
15	16QAM	1	0	23.14	23.36	23.13				
15	16QAM	1	37	23.35	23.33	23.20			24	0
15	16QAM	1	74	23.30	23.27	23.22				
15	16QAM	36	0	23.07	23.38	23.14				
15	16QAM	36	20	23.31	23.31	23.18			24	0
15	16QAM	36	39	23.27	23.24	23.16				
15	16QAM	75	0	23.18	23.19	23.25				
15	16QAM	1	0	23.11	23.39	23.13			24	0
15	64QAM	1	37	23.30	23.29	23.14				
15	64QAM	1	74	23.27	23.23	23.17				
15	64QAM	36	0	23.07	23.32	23.08				
15	64QAM	36	20	23.24	23.25	23.23			24	0
15	64QAM	36	39	23.20	23.19	23.10				
15	64QAM	75	0	23.14	23.18	23.22				
15	256QAM	1	0	21.31	21.07	21.19			22	2
15	256QAM	1	37	21.16	21.16	21.07				
15	256QAM	1	74	21.01	21.17	21.09				
15	256QAM	36	0	21.08	21.43	21.35				
15	256QAM	36	20	21.43	21.53	21.30			22	2
15	256QAM	36	39	21.39	21.37	21.05				
15	256QAM	75	0	21.27	20.93	21.19				
Channel										
Frequency (MHz)				2675	2695	2615	Turn-up limit (dBm)	MPR (dB)		
10	QPSK	1	0	23.16	23.42	23.19			24	0
10	QPSK	1	25	23.35	23.33	23.23				
10	QPSK	1	49	23.27	23.29	23.23				
10	QPSK	25	0	23.12	23.36	23.13				
10	QPSK	25	12	23.33	23.35	23.17			24	0
10	QPSK	25	25	23.27	23.23	23.20				
10	QPSK	50	0	23.18	23.20	23.23				
10	16QAM	1	0	23.10	23.34	23.14			24	0
10	16QAM	1	25	23.29	23.31	23.15				
10	16QAM	1	49	23.24	23.21	23.20				
10	16QAM	25	0	23.01	23.34	23.09				
10	16QAM	25	12	23.27	23.26	23.16			24	0
10	16QAM	25	25	23.24	23.21	23.12				
10	16QAM	50	0	23.12	23.16	23.20				
10	64QAM	1	0	23.07	23.37	23.08			24	0
10	64QAM	1	25	23.27	23.26	23.13				
10	64QAM	1	49	23.24	23.17	23.13				
10	64QAM	25	0	23.01	23.28	23.04				
10	64QAM	25	12	23.22	23.19	23.09			24	0
10	64QAM	25	25	23.18	23.16	23.07				
10	64QAM	50	0	23.10	23.12	23.19				
10	256QAM	1	0	21.21	20.77	20.97			22	2
10	256QAM	1	25	20.91	21.12	21.04				
10	256QAM	1	49	21.17	21.16	20.84				
10	256QAM	25	0	21.21	21.34	21.12				
10	256QAM	25	12	21.30	21.48	21.32			22	2
10	256QAM	25	25	21.42	21.57	21.18				
10	256QAM	50	0	20.91	20.96	21.03				
Channel										
Frequency (MHz)				37775	38000	38225	Turn-up limit (dBm)	MPR (dB)		
5	QPSK	1	0	23.14	23.39	23.15			24	0
5	QPSK	1	12	23.29	23.28	23.19				
5	QPSK	1	24	23.24	23.26	23.17				
5	QPSK	12	0	23.09	23.32	23.10				
5	QPSK	12	7	23.29	23.32	23.13			24	0
5	QPSK	12	13	23.24	23.19	23.14				
5	QPSK	25	0	23.15	23.15	23.19				
5	16QAM	1	0	23.05	23.29	23.12			24	0
5	16QAM	1	12	23.24	23.25	23.13				
5	16QAM	1	24	23.19	23.18	23.15				
5	16QAM	12	0	22.97	23.29	23.06				
5	16QAM	12	7	23.22	23.24	23.14			24	0
5	16QAM	12	13	23.20	23.18	23.09				
5	16QAM	25	0	23.07	23.14	23.15				
5	64QAM	1	0	23.02	23.32	23.04			24	0
5	64QAM	1	12	23.23	23.24	23.07				
5	64QAM	1	24	23.18	23.14	23.10				
5	64QAM	12	0	22.98	23.24	23.00				
5	64QAM	12	7	23.19	23.14	23.05			24	0
5	64QAM	12	13	23.14	23.12	23.06				
5	64QAM	25	0	23.05	23.07	23.14				
5	256QAM	1	0	20.99	21.37	21.02			22	2
5	256QAM	1	12	21.21	20.91	21.17				
5	256QAM	1	24	21.01	20.97	20.86				
5	256QAM	12	0	21.09	21.02	21.04				
5	256QAM	12	7	21.23	21.42	21.47			22	2
5	256QAM	12	13	21.38	21.18	21.16				
5	256QAM	25	0	20.87	20.94	21.12				

Band 38(only on channel required) PC2 Ant0 DSI6 Power												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)				
Channel Frequency (MHz)												
20	QPSK	1	0	26.24	26.41	26.33	27	0				
20	QPSK	1	49	26.38	26.35	26.32						
20	QPSK	1	99	26.33	26.37	26.27						
20	QPSK	50	0	26.17	26.39	26.33						
20	QPSK	50	24	26.31	26.34	26.23	27	0				
20	QPSK	50	50	26.30	26.27	26.26						
20	QPSK	100	0	26.34	26.46	26.36						
20	16QAM	1	0	26.19	26.37	26.28						
20	16QAM	1	49	26.32	26.32	26.27	27	0				
20	16QAM	1	99	26.29	26.23	26.21						
20	16QAM	50	0	26.21	26.29	26.29						
20	16QAM	50	24	26.37	26.33	26.34	27	0				
20	16QAM	50	50	26.25	26.22	26.20						
20	16QAM	100	0	26.30	26.22	26.30						
20	16QAM	1	0	26.13	26.34	26.22						
20	64QAM	1	49	26.27	26.27	26.21	27	0				
20	64QAM	1	99	26.26	26.20	26.16						
20	64QAM	50	0	26.28	26.23	26.23						
20	64QAM	50	24	26.33	26.30	26.29						
20	64QAM	50	50	26.22	26.20	26.16	27	0				
20	64QAM	100	0	26.27	26.19	26.27						
20	256QAM	1	0	24.84	24.68	24.60						
20	256QAM	1	49	24.55	24.63	24.75						
20	256QAM	1	99	24.35	24.51	24.44	25	2				
20	256QAM	50	0	24.79	24.63	24.67						
20	256QAM	50	24	24.40	24.43	24.61						
20	256QAM	50	50	24.34	24.63	24.47						
20	256QAM	100	0	24.00	24.20	24.08						
Channel Frequency (MHz)												
				25.775	25.995	26.013			Turn-up limit (dBm)	MPR (dB)		
15	QPSK	1	0	26.21	26.36	26.31			27	0		
15	QPSK	1	37	26.33	26.31	26.29						
15	QPSK	1	74	26.29	26.29	26.24						
15	QPSK	36	0	26.32	26.28	26.30						
15	QPSK	36	20	26.34	26.32	26.33	27	0				
15	QPSK	36	39	26.24	26.22	26.21						
15	QPSK	36	58	26.31	26.21	26.32						
15	16QAM	1	0	26.13	26.33	26.23						
15	16QAM	1	37	26.24	26.30	26.22	27	0				
15	16QAM	1	74	26.24	26.26	26.18						
15	16QAM	36	0	26.25	26.26	26.26						
15	16QAM	36	20	26.33	26.30	26.29						
15	16QAM	36	39	26.19	26.17	26.15	27	0				
15	16QAM	36	58	26.28	26.18	26.25						
15	64QAM	1	0	26.10	26.31	26.19						
15	64QAM	1	37	26.21	26.21	26.15						
15	64QAM	1	74	26.23	26.18	26.12	27	0				
15	64QAM	36	0	26.26	26.26	26.24						
15	64QAM	36	20	26.30	26.28	26.24						
15	64QAM	36	39	26.19	26.17	26.12						
15	64QAM	75	0	26.15	26.17	26.12	25	2				
15	256QAM	1	0	24.70	24.77	24.62						
15	256QAM	1	37	24.47	24.70	24.67						
15	256QAM	1	74	24.29	24.33	24.52						
15	256QAM	36	0	24.17	24.59	24.60	25	2				
15	256QAM	36	20	24.37	24.29	24.65						
15	256QAM	36	39	24.31	24.46	24.29						
15	256QAM	75	0	24.20	24.40	24.32						
Channel Frequency (MHz)												
				25.95	25.96	26.16	Turn-up limit (dBm)	MPR (dB)				
10	QPSK	1	0	26.15	26.32	26.26	27	0				
10	QPSK	1	49	26.31	26.29	26.27						
10	QPSK	1	99	26.26	26.19	26.21						
10	QPSK	25	0	26.28	26.24	26.25						
10	QPSK	25	12	26.30	26.29	26.28	27	0				
10	QPSK	25	12	26.22	26.16	26.18						
10	QPSK	50	0	26.27	26.17	26.30						
10	16QAM	1	0	26.10	26.31	26.21						
10	16QAM	1	25	26.22	26.24	26.17	27	0				
10	16QAM	1	49	26.20	26.20	26.18						
10	16QAM	25	0	26.20	26.23	26.24						
10	16QAM	25	12	26.29	26.27	26.26						
10	16QAM	25	12	26.15	26.15	26.15	27	0				
10	16QAM	50	0	26.22	26.15	26.22						
10	64QAM	1	0	26.07	26.28	26.16						
10	64QAM	1	25	26.07	26.18	26.09						
10	64QAM	1	49	26.10	26.10	26.08	27	0				
10	64QAM	25	0	26.21	26.12	26.12						
10	64QAM	25	12	26.26	26.25	26.20						
10	64QAM	25	25	26.16	26.14	26.09						
10	64QAM	25	0	24.67	24.30	24.51	25	2				
10	256QAM	1	25	24.63	24.51	24.65						
10	256QAM	1	49	24.52	24.61	24.67						
10	256QAM	25	0	24.71	24.61	24.57						
10	256QAM	25	12	24.43	24.35	24.48	25	2				
10	256QAM	25	25	24.36	24.52	24.38						
10	256QAM	50	0	24.34	24.52	24.26						
Channel Frequency (MHz)												
				25.775	25.990	26.020	Turn-up limit (dBm)	MPR (dB)				
5	QPSK	1	0	26.13	26.29	26.18	27	0				
5	QPSK	1	12	26.26	26.22	26.22						
5	QPSK	1	24	26.24	26.15	26.18						
5	QPSK	12	0	26.22	26.19	26.19						
5	QPSK	12	0	26.28	26.26	26.25	27	0				
5	QPSK	12	13	26.19	26.11	26.15						
5	QPSK	25	0	26.23	26.12	26.28						
5	16QAM	1	0	26.06	26.26	26.16						
5	16QAM	1	12	26.15	26.21	26.13	27	0				
5	16QAM	1	24	26.16	26.14	26.09						
5	16QAM	12	0	26.14	26.18	26.20						
5	16QAM	12	7	26.24	26.21	26.22						
5	16QAM	12	13	26.09	26.09	26.06	27	0				
5	16QAM	25	0	26.16	26.12	26.12						
5	64QAM	1	0	26.03	26.24	26.11						
5	64QAM	1	12	26.12	26.14	26.03						
5	64QAM	1	24	26.14	26.08	26.06	27	0				
5	64QAM	12	0	26.16	26.07	26.07						
5	64QAM	12	7	26.21	26.20	26.17						
5	64QAM	12	13	26.12	26.10	26.08						
5	64QAM	25	0	26.15	26.09	26.07	25	2				
5	256QAM	1	0	24.80	24.65	24.64						
5	256QAM	1	24	24.36	24.56	24.67						
5	256QAM	1	24	24.48	24.41	24.42						
5	256QAM	12	0	24.59	24.60	24.54	25	2				
5	256QAM	12	7	24.43	24.45	24.42						
5	256QAM	12	13	24.43	24.46	24.32						
5	256QAM	25	0	24.18	24.32	24.28						

Ant1 DS16 Power								
GSM450	Burst-Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.19	32.05	32.03	33.50	23.19	23.05	23.03	24.50
GPRS 1 Tx slot	32.18	32.02	32.01	33.50	23.18	23.02	23.01	24.50
GPRS 2 Tx slots	29.45	29.25	29.24	30.00	23.45	23.25	23.24	24.00
GPRS 3 Tx slots	26.03	26.05	27.79	29.50	23.77	23.79	23.53	25.24
GPRS 4 Tx slots	26.45	26.25	26.17	27.50	23.45	23.25	23.17	24.50
EDGE 1 Tx slot	25.08	25.13	25.00	26.00	16.08	16.13	16.00	17.00
EDGE 2 Tx slots	23.52	23.49	23.63	25.00	17.52	17.49	17.63	19.00
EDGE 3 Tx slots	22.48	22.35	22.65	24.00	18.22	18.09	18.39	19.74
EDGE 4 Tx slots	20.35	20.25	20.48	22.00	17.35	17.25	17.48	19.00

Ant1 DS16 Power				
Band	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	23.72	23.77	23.71	25.00
3GPP Rel 99 RMC 12.2Kbps	23.78	23.79	23.75	25.00
3GPP Rel 6 HSDPA Subtest-1	22.67	22.96	22.91	24.00
3GPP Rel 6 HSDPA Subtest-2	22.55	22.94	22.97	24.00
3GPP Rel 6 HSDPA Subtest-3	22.41	22.41	22.44	23.50
3GPP Rel 6 HSDPA Subtest-4	22.51	22.52	22.50	23.50
3GPP Rel 6 DC-HSDPA Subtest-1	22.73	22.78	22.73	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	22.25	22.66	22.68	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	22.15	22.23	22.10	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	22.10	22.19	22.25	23.50
3GPP Rel 6 HSUPA Subtest-1	22.36	22.23	22.04	24.00
3GPP Rel 6 HSUPA Subtest-2	20.91	21.01	20.92	22.00
3GPP Rel 6 HSUPA Subtest-3	21.97	21.94	22.04	23.00
3GPP Rel 6 HSUPA Subtest-4	20.92	20.98	20.83	22.00
3GPP Rel 6 HSUPA Subtest-5	22.86	22.87	23.04	24.00

Band 2 (1900MHz Band) Ant1 DS16 Power												
Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.86	21.97	21.89			23.5	0		
20	QPSK	1	49	21.89	21.94	21.88						
20	QPSK	1	99	21.88	21.82	21.91			23.5	0		
20	QPSK	50	0	21.86	21.83	21.82						
20	QPSK	24	0	21.87	21.81	21.77			23.5	0		
20	QPSK	50	50	21.81	21.89	21.86						
20	QPSK	100	0	21.86	21.94	21.86			23.5	0		
20	HQAM	1	0	21.78	21.86	21.89						
20	HQAM	1	49	21.79	21.84	21.78			23.5	0		
20	HQAM	1	99	21.84	21.87	21.81						
20	HQAM	50	0	21.22	21.14	21.22			23	0.5		
20	HQAM	50	24	21.25	21.22	21.27						
20	HQAM	50	50	21.22	21.12	21.25			23	0.5		
20	HQAM	100	0	21.18	21.18	21.22						
20	HQAM	1	0	21.85	21.91	21.85			23.5	0		
20	HQAM	1	49	21.86	21.89	21.83						
20	HQAM	50	0	21.00	21.77	21.85			23	0.5		
20	HQAM	50	24	21.27	21.24	21.26						
20	HQAM	50	50	21.17	21.15	21.20			20	3.5		
20	HQAM	100	0	21.20	21.22	21.20						
20	SSQAM	1	49	18.12	18.11	18.05			20	3.5		
20	SSQAM	1	99	18.24	18.20	18.10						
20	SSQAM	50	24	18.18	18.25	18.13			20	3.5		
20	SSQAM	50	24	18.08	18.05	18.24						
20	SSQAM	50	50	18.23	18.11	18.12			20	3.5		
20	SSQAM	100	0	18.02	18.04	18.12						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.83	21.95	21.89			23.5	0		
15	QPSK	1	37	21.89	21.93	21.93						
15	QPSK	1	74	21.88	21.80	21.91			23.5	0		
15	QPSK	36	0	21.83	21.79	21.80						
15	QPSK	36	20	21.84	21.88	21.89			23.5	0		
15	QPSK	36	36	21.81	21.86	21.82						
15	QPSK	75	0	21.82	21.84	21.86			23.5	0		
15	HQAM	1	0	21.76	21.83	21.82						
15	HQAM	1	37	21.76	21.80	21.74			23.5	0		
15	HQAM	1	49	21.83	21.85	21.82						
15	HQAM	36	0	21.20	21.12	21.18			23	0.5		
15	HQAM	36	20	21.24	21.18	21.28						
15	HQAM	75	0	21.14	21.13	21.01			23.5	0		
15	HQAM	1	0	21.83	21.87	21.84						
15	HQAM	36	0	21.82	21.85	21.86			23	0.5		
15	HQAM	1	74	21.89	21.74	21.81						
15	HQAM	36	0	21.10	21.18	21.18			20	3.5		
15	HQAM	36	36	21.17	21.20	21.16						
15	HQAM	36	36	21.15	21.13	21.27			20	3.5		
15	HQAM	75	0	21.17	21.07	21.13						
15	SSQAM	1	37	18.08	18.07	18.05			20	3.5		
15	SSQAM	1	74	18.23	18.21	18.07						
15	SSQAM	36	20	18.15	18.20	18.08			20	3.5		
15	SSQAM	36	20	18.04	18.04	18.24						
15	SSQAM	36	39	18.22	18.08	18.07			20	3.5		
15	SSQAM	75	0	18.02	18.04	18.12						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.89	21.87	21.84			23.5	0		
10	QPSK	1	25	21.89	21.90	21.87						
10	QPSK	1	49	21.84	21.78	21.87			23.5	0		
10	QPSK	25	0	21.83	21.85	21.89						
10	QPSK	25	12	21.83	21.88	21.89			23.5	0		
10	QPSK	25	25	21.78	21.85	21.83						
10	HQAM	1	0	21.87	21.90	21.86			23.5	0		
10	HQAM	1	0	21.79	21.87	21.85						
10	HQAM	1	25	21.76	21.82	21.78			23.5	0		
10	HQAM	1	49	21.83	21.85	21.82						
10	HQAM	25	0	21.23	21.14	21.19			23	0.5		
10	HQAM	25	12	21.24	21.21	21.28						
10	HQAM	25	12	21.20	21.13	21.26			23	0.5		
10	HQAM	50	0	21.18	21.13	21.30						
10	HQAM	1	0	21.83	21.87	21.84			23.5	0		
10	HQAM	1	25	21.83	21.85	21.82						
10	HQAM	1	49	21.91	21.72	21.82			23	0.5		
10	HQAM	25	0	21.10	21.19	21.15						
10	HQAM	25	12	21.22	21.20	21.22			23	0.5		
10	HQAM	25	25	21.15	21.12	21.24						
10	HQAM	50	0	21.20	21.19	21.20			20	3.5		
10	SSQAM	1	49	18.22	18.20	18.07						
10	SSQAM	25	0	18.17	18.22	18.15			20	3.5		
10	SSQAM	25	12	18.09	18.03	18.21						
10	SSQAM	25	25	18.19	18.08	18.13			20	3.5		
10	SSQAM	50	0	18.01	18.08	18.10						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.83	21.94	21.88			23.5	0		
5	QPSK	1	12	21.89	21.85	21.84						
5	QPSK	1	24	21.87	21.79	21.89			23.5	0		
5	QPSK	12	0	21.86	21.78	21.89						
5	QPSK	12	7	21.83	21.86	21.73			23.5	0		
5	QPSK	12	13	21.78	21.89	21.83						
5	QPSK	25	0	21.84	21.84	21.84			23.5	0		
5	HQAM	1	0	21.76	21.86	21.85						
5	HQAM	1	12	21.75	21.84	21.78			23.5	0		
5	HQAM	1	24	21.83	21.82	21.82						
5	HQAM	12	0	21.22	21.10	21.22			23	0.5		
5	HQAM	12	7	21.24	21.20	21.22						
5	HQAM	12	13	21.18	21.08	21.24			23	0.5		
5	HQAM	25	0	21.15	21.16	21.32						
5	HQAM	1	0	21.85	21.90	21.81			23.5	0		
5	HQAM	1	12	21.88	21.91	21.83						
5	HQAM	1	24	21.90	21.76	21.83			23	0.5		
5	HQAM	12	0	21.08	21.19	21.19						
5	HQAM	12	7	21.27	21.20	21.22			23	0.5		
5	HQAM	12	13	21.13	21.15	21.27						
5	HQAM	25	0	21.21	21.21	21.31			20	3.5		
5	HQAM	25	0	18.08	18.20	18.08						
5	SSQAM	1	12	18.12	18.07	18.03			20	3.5		
5	SSQAM	1	24	18.19	18.16	18.06						
5	SSQAM	12	0	18.15	18.24	18.14			20	3.5		
5	SSQAM	12	7	18.07	18.04	18.24						
5	SSQAM	25	0	18.19	18.09	18.06			20	3.5		
5	SSQAM	25	0	18.02	18.08	18.10						
Channel												
Frequency (MHz)												
3	QPSK	1	0	21.82	21.94	21.85			23.5	0		
3	QPSK	1	8	21.90	21.90	21.88						
3	QPSK	1	14	21.88	21.82	21.87			23.5	0		
3	QPSK	8	0	21.84	21.83	21.83						
3	QPSK	8	4	21.85	21.87	21.89			23.5	0		
3	QPSK	8	7	21.82	21.85	21.82						
3	QPSK	15	0	21.82	21.95	21.87			23.5	0		
3	HQAM	1	0	21.77	21.86	21.85						
3	HQAM	1	8	21.76	21.85	21.84			23.5	0		
3	HQAM	1	14	21.82	21.87	21.81						
3	HQAM	8	0	21.21	21.11	21.28			23	0.5		
3	HQAM	8	4	21.25	21.18	21.25						
3	HQAM	8	7	21.21	21.11	21.22			23	0.5		
3	HQAM	15	0	21.19	21.11	21.22						
3	HQAM	1	0	21.82	21.90	21.85			23.5	0		
3	HQAM	1	8	21.86	21.94	21.91						
3	HQAM	1	14	21.89	21.83	21.90			23.5	0		
3	HQAM	8	0	21.08	21.17	21.15						
3	HQAM	8	4	21.22	21.24	21.22			23	0.5		
3	HQAM	8	7	21.14	21.28	21.14						
3	HQAM	15	0	21.19	21.17	21.31			20	3.5		
3	SSQAM	1	0	18.09	18.18	18.08						
3	SSQAM	1	8	18.17	18.17	18.07			20	3.5		
3	SSQAM	1	14	18.23	18.17	18.04						
3	SSQAM	8	0	18.16	18.24	18.18			20	3.5		
3	SSQAM	8	4	18.20	18.03	18.20						
3	SSQAM	8	7	18.19	18.11	18.12			20	3.5		
3	SSQAM	15	0	18.31	18.06	18.12						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	21.81	21.90	21.88			23.5	0		
1.4	QPSK	1	8	21.90	21.94	21.92						
1.4	QPSK	1	15	21.85	21.81	21.90			23.5	0		
1.4	QPSK	8	0	21.85	21.80	21.82						
1.4	QPSK	8	4	21.86	21.88	21.92			23.5	0		
1.4	QPSK	8	7	21.83	21.85	21.82						
1.4	QPSK	15	0	21.81	21.94	21.87			23.5	0		
1.4	QPSK	1	0	21.85	21.90	21.84						
1.4	QPSK	1	8	21.87	21.81	21.91			23.5	0		
1.4	QPSK	1	15	21.82	21.88	21.89						
1.4	QPSK	8	0	21.78	21.83	21.86			23.5	0		
1.4	QPSK	8	4	21.74	21.82	21.73						
1.4	QPSK	8	7	21.83	21.88	21.75			23	0.5		
1.4	QPSK	15	0	21.19	21.14	21.23						
1.4	HQAM	1	0	21.80	21.89	21.81			23.5	0		
1.4	HQAM	1	8	21.86	21.93	21.87						
1.4	HQAM	1	15	21.89	21.75	21.81			23.5	0		
1.4	HQAM	8										



Band 7 (2600MHz Band) Ant1 DS16 Power									
Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	19.65	19.75	19.75			
20	QPSK	1	49	19.47	19.53	19.53	20.7	0	
20	QPSK	1	99	19.80	19.89	19.82			
20	QPSK	50	0	19.45	19.55	19.55			
20	QPSK	50	24	19.44	19.48	19.57			
20	QPSK	50	50	19.46	19.56	19.51	20.7	0	
20	QPSK	100	0	19.46	19.53	19.53			
20	16QAM	1	0	19.34	19.43	19.43			
20	16QAM	1	49	19.44	19.53	19.49	20.7	0	
20	16QAM	1	99	19.51	19.55	19.51			
20	16QAM	50	0	19.33	19.33	19.33			
20	16QAM	50	24	19.38	19.39	19.53	20.7	0	
20	16QAM	50	50	19.36	19.44	19.49			
20	16QAM	100	0	19.38	19.39	19.45			
20	64QAM	1	0	19.45	19.29	19.34	20.7	0	
20	64QAM	1	49	19.40	19.49	19.50			
20	64QAM	50	0	19.39	19.30	19.51			
20	64QAM	50	24	19.45	19.32	19.31	20.7	0	
20	64QAM	50	50	19.45	19.50	19.47			
20	64QAM	100	0	19.44	19.49	19.59			
20	256QAM	1	0	19.46	19.37	19.48			
20	256QAM	1	49	19.49	19.40	19.50	20	0.7	
20	256QAM	1	99	19.58	19.49	19.59			
20	256QAM	50	0	19.45	19.50	19.47			
20	256QAM	50	24	19.44	19.58	19.59	20	0.7	
20	256QAM	50	50	19.48	19.52	19.61			
20	256QAM	100	0	19.49	19.54	19.62			
Channel									
Frequency (MHz)									
15	QPSK	1	0	19.48	19.85	19.89			
15	QPSK	1	49	19.49	19.49	19.82	20.7	0	
15	QPSK	1	74	19.56	19.67	19.61			
15	QPSK	36	0	19.40	19.56	19.52			
15	QPSK	36	29	19.40	19.44	19.62	20.7	0	
15	QPSK	36	39	19.42	19.52	19.57			
15	16QAM	75	0	19.41	19.53	19.48			
15	16QAM	1	0	19.30	19.40	19.45			
15	16QAM	1	37	19.40	19.51	19.45	20.7	0	
15	16QAM	1	74	19.53	19.64	19.57			
15	16QAM	36	0	19.32	19.30	19.50			
15	16QAM	36	20	19.33	19.37	19.49	20.7	0	
15	16QAM	75	0	19.38	19.30	19.41			
15	64QAM	1	0	19.44	19.26	19.30	20.7	0	
15	64QAM	1	37	19.36	19.47	19.39			
15	64QAM	1	74	19.34	19.22	19.49	20.7	0	
15	64QAM	36	0	19.32	19.33	19.44			
15	64QAM	36	20	19.42	19.51	19.52			
15	64QAM	36	39	19.40	19.45	19.45	20.7	0	
15	64QAM	75	0	19.43	19.47	19.56			
15	256QAM	1	0	19.53	19.58	19.63			
15	256QAM	1	37	19.48	19.47	19.53	20	0.7	
15	256QAM	1	74	19.55	19.45	19.57			
15	256QAM	36	0	19.43	19.54	19.55			
15	256QAM	36	39	19.45	19.48	19.57	20	0.7	
15	256QAM	75	0	19.35	19.50	19.53			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.46	19.54	19.51			
5	QPSK	1	12	19.46	19.48	19.62	20.7	0	
5	QPSK	1	24	19.58	19.56	19.59			
5	QPSK	12	0	19.43	19.57	19.51			
5	QPSK	12	7	19.41	19.42	19.58	20.7	0	
5	QPSK	12	13	19.43	19.54	19.59			
5	QPSK	14	0	19.43	19.50	19.49			
5	16QAM	1	0	19.33	19.41	19.46			
5	16QAM	1	26	19.40	19.52	19.45	20.7	0	
5	16QAM	1	49	19.47	19.52	19.50			
5	16QAM	25	0	19.28	19.28	19.28			
5	16QAM	25	12	19.36	19.34	19.48	20.7	0	
5	16QAM	25	16	19.40	19.40	19.45			
5	16QAM	50	0	19.37	19.33	19.42			
5	64QAM	1	0	19.44	19.36	19.30	20.7	0	
5	64QAM	1	24	19.36	19.48	19.39			
5	64QAM	1	49	19.34	19.30	19.48			
5	64QAM	25	0	19.35	19.31	19.41			
5	64QAM	25	12	19.44	19.48	19.34	20.7	0	
5	64QAM	25	16	19.43	19.48	19.42			
5	64QAM	50	0	19.40	19.48	19.56			
5	256QAM	1	0	19.54	19.50	19.53			
5	256QAM	1	25	19.44	19.47	19.56	20	0.7	
5	256QAM	1	49	19.56	19.44	19.55			
5	256QAM	25	0	19.34	19.52	19.45			
5	256QAM	25	12	18.41	18.56	18.54	20	0.7	
5	256QAM	25	25	18.44	18.40	18.59			
5	256QAM	50	0	19.37	19.40	19.53			
Channel									
Frequency (MHz)									
5	QPSK	1	0	19.46	19.54	19.51			
5	QPSK	1	12	19.46	19.48	19.62	20.7	0	
5	QPSK	1	24	19.58	19.56	19.59			
5	QPSK	12	0	19.43	19.57	19.51			
5	QPSK	12	7	19.41	19.42	19.58	20.7	0	
5	QPSK	12	13	19.43	19.54	19.59			
5	QPSK	14	0	19.43	19.50	19.49			
5	16QAM	1	0	19.33	19.38	19.46			
5	16QAM	1	12	19.42	19.50	19.47	20.7	0	
5	16QAM	1	24	19.48	19.51	19.48			
5	16QAM	12	0	19.30	19.29	19.35			
5	16QAM	12	7	19.37	19.34	19.50	20.7	0	
5	16QAM	12	13	19.34	19.39	19.43			
5	16QAM	25	0	19.36	19.33	19.42			
5	64QAM	1	0	19.42	19.26	19.32	20.7	0	
5	64QAM	1	12	19.37	19.48	19.28			
5	64QAM	1	24	19.35	19.28	19.49			
5	64QAM	12	0	19.34	19.32	19.41			
5	64QAM	12	7	19.43	19.49	19.35	20.7	0	
5	64QAM	12	13	19.42	19.48	19.44			
5	64QAM	25	0	19.40	19.47	19.57			
5	256QAM	1	0	19.53	19.69	19.65			
5	256QAM	1	12	18.47	18.47	18.56	20	0.7	
5	256QAM	1	24	18.54	18.47	18.54			
5	256QAM	12	0	19.35	19.50	19.43			
5	256QAM	12	7	18.42	18.53	18.55	20	0.7	
5	256QAM	12	13	18.43	18.48	18.59			
5	256QAM	25	0	19.38	19.50	19.53			

Band 12 (700MHz Low Band) Ant1 DS16 Power									
Part 27F(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.41	22.57	22.57			
10	QPSK	1	26	22.44	22.48	22.62	24	0	
10	QPSK	1	49	22.50	22.58	22.49			
10	QPSK	25	0	22.48	22.55	22.54			
10	QPSK	25	12	22.54	22.63	22.63	24	0	
10	QPSK	25	25	22.60	22.84	22.60			
10	QPSK	50	0	22.62	22.63	22.61			
10	16QAM	1	0	22.59	22.62	22.59			
10	16QAM	1	25	22.62	22.45	22.60	24	0	
10	16QAM	1	49	22.46	22.55	22.46			
10	16QAM	25	0	22.65	22.48	22.49			
10	16QAM	25	12	22.59	22.59	22.62			
10	16QAM	25	25	22.65	22.81	22.54	24	0	
10	16QAM	50	0	22.59	22.55	22.49			
10	64QAM	1	0	22.55	22.62	22.55			
10	64QAM	1	25	22.62	22.47	22.60	24	0	
10	64QAM	1	49	22.46	22.53	22.46			
10	64QAM	25	0	22.65	22.51	21.74			
10	64QAM	25	12	21.48	21.50	21.74	23	1	
10	64QAM	25	25	21.50	21.73	21.54			
10	64QAM	50	0	21.61	21.49	21.54			
10	256QAM	1	0	20.39	20.36	20.39			
10	256QAM	1	25	20.37	20.35	20.42	22	2	
10	256QAM	1	49	20.32	20.58	20.24			
10	256QAM	25	0	20.57	20.47	20.42			
10	256QAM	25	12	20.52	20.51	20.69	22	2	
10	256QAM	25	25	20.45	20.84	20.52			
10	256QAM	50	0	20.53	20.57	20.54			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.38	22.61	22.61			
5	QPSK	1	12	22.40	22.46	22.60	24	0	
5	QPSK	1	24	22.44	22.45	22.63			
5	QPSK	12	0	22.44	22.49	22.52			
5	QPSK	12	7	22.59	22.59	22.63			
5	QPSK	12	14	22.60	22.60	22.63			
5	QPSK	25	0	22.56	22.54	22.56			
5	16QAM	1	0	22.54	22.58	22.51			
5	16QAM	1	12	22.58	22.49	22.63	24	0	
5	16QAM	1	24	22.61	22.63	22.63			
5	16QAM	12	0	22.43	22.42	22.43			
5	16QAM	12	7	22.54	22.54	22.54			
5	16QAM	12	14	22.52	22.59	22.48			
5	16QAM	25	0	22.53	22.52	22.54			
5	16QAM	25	7	22.62	22.51	22.53			
5	16QAM	25	14	22.61	22.61	22.61			
5	16QAM	50	0	21.36	21.51	21.49	23	1	
5	256QAM	1	0	20.31	20.30	20.30			
5	256QAM	1	12	20.30	20.26	20.40	22	2	
5	256QAM	1	24	20.40	20.49	20.43			
5	256QAM	12	0	20.42	20.43	20.43			
5	256QAM	12	7	20.62	20.65	20.65	22	2	
5	256QAM	12	14	20.61	20.52	20.61			
5	256QAM	25	0	20.59	20.63	20.55			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.30	22.56	22.49			
3	QPSK	1	8	22.37	22.40	22.57			
3	QPSK	1	16	22.41	22.41	22.41			
3	QPSK	8	0	22.53	22.58	22.59	24	0	
3	QPSK	8	8	22.58	22.58	22.58			
3	QPSK	16	0	22.53	22.51	22.52			
3	16QAM	1	0	22.51	22.56	22.47			
3	16QAM	1	8	22.56	22.56	22.56			
3	16QAM	1	16	22.38	22.50	22.41			
3	16QAM	8	0	22.38	22.38	22.37			
3	16QAM	8	8	22.48	22.33	22.33			
3	16QAM	16	0	22.47	22.56	22.46			
3	16QAM	16	8	22.49	22.48	22.51			
3	16QAM	32	0	22.52	22.48	22.52			
3	64QAM	1	0	22.34	22.38	22.32			
3	64QAM	1	16	22.40	22.44	22.36			
3	64QAM	1	32	21.30	21.49	21.30	23	1	
3	64QAM	8	0	21.47	21.44	21.44			
3	64QAM	8	8	21.48	21.50	21.57			
3	64QAM	16	0	21.50	21.50	21.50			
3	256QAM	1	0	20.06	20.08	20.15			
3	256QAM	1	8	20.14	20.26	20.34			
3	256QAM	1	16	20.24	20.33	20.33			
3	256QAM	8	0	20.37	20.32	20.32			
3	256QAM	8	8	20.47	20.47	20.46	22	2	
3	256QAM	16	0	20.53	20.47	20.47			
3	256QAM	16	8	20.52	20.49	20.51			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.26	22.52	22.45			
1.4	QPSK	1	3	22.33	22.37	22.52			
1.4	QPSK	1	6	22.37	22.46	22.36			
1.4	QPSK	3	0	22.36	22.41	22.43	24	0	
1.4	QPSK	3	1	22.47	22.52	22.57			
1.4	QPSK	3	3	22.50	22.44	22.48			
1.4	QPSK	6	0	22.49	22.45	22.48			
1.4	16QAM	1	0	22.48	22.52	22.45			
1.4	16QAM	1	3	22.27	22.29	22.45			
1.4	16QAM	1	6	22.35	22.45	22.38			
1.4	16QAM	3	0	22.33	22.35	22.32			
1.4	16QAM	3	1	22.44	22.49	22.49			
1.4	16QAM	3	3	22.45	22.44	22.41			
1.4	16QAM	6	0	22.44	22.44	22.47			
1.4	16QAM	6	3	22.47	22.47	22.47			
1.4	16QAM	3	3	22.31	22.36	22.48			
1.4	16QAM	6	0	22.36	22.39	22.30			
1.4	16QAM	6	3	22.57	22.66	22.57			
1.4	16QAM	12	0	22.33	22.33	22.37	23	1	
1.4	256QAM	1	0	20.33	20.23	20.21			
1.4	256QAM	1	3	20.46	20.48	20.36			
1.4	256QAM	1	6	20.47	20.47	20.47			
1.4	256QAM	3	0	20.28	20.42	20.19	22	2	
1.4	256QAM	3	1	20.66	20.27	20.53			
1.4	256QAM	6	0	20.57	20.46	20.46			
1.4	256QAM	6	3	20.51	20.28	20.47	22	2	



Band 25 (1900MHz Band) Ant1 DS16 Power														
Part 24E														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	22.01	22.11	22.03	23.5	0						
20	QPSK	1	49	22.02	22.08	22.08								
20	QPSK	1	99	22.00	22.00	22.08								
20	QPSK	50	0	21.73	21.63	21.75								
20	QPSK	24	0	21.73	21.77	21.69	23	0.5						
20	QPSK	50	50	21.68	21.73	21.69								
20	QPSK	100	0	21.73	21.79	21.71								
20	16QAM	50	0	21.66	21.72	21.64								
20	16QAM	1	49	21.65	21.69	21.61	23	0.5						
20	16QAM	1	99	21.68	21.74	21.65								
20	16QAM	50	0	21.08	20.98	21.04								
20	16QAM	50	24	21.11	21.09	21.08								
20	16QAM	50	50	21.05	20.98	21.04	22	1.5						
20	16QAM	100	0	21.05	21.04	21.14								
20	16QAM	1	0	21.71	21.73	21.71								
20	16QAM	1	49	21.71	21.78	21.76								
20	16QAM	50	0	20.98	21.01	21.04	23	0.5						
20	16QAM	50	24	21.08	21.09	21.07								
20	16QAM	50	50	21.02	21.02	21.11								
20	16QAM	100	0	21.05	21.04	21.10								
20	256QAM	1	49	17.04	17.13	17.07	19	4.5						
20	256QAM	1	99	17.07	17.07	17.06								
20	256QAM	50	24	17.04	17.01	17.05								
20	256QAM	50	50	18.04	17.85	17.98								
20	256QAM	100	0	17.07	17.05	17.09	19	4.5						
Channel				26115	26140	26011					Turn-up time (sec)	MFR (dB)		
Frequency (MHz)														
15	QPSK	1	0	21.08	22.07	21.98								
15	QPSK	1	37	22.00	22.07	21.98								
15	QPSK	1	74	21.96	21.98	22.03								
15	QPSK	36	0	21.70	21.69	21.71								
15	QPSK	36	36	21.70	21.75	21.69	23	0.5						
15	QPSK	36	72	21.64	21.69	21.67								
15	QPSK	75	0	21.68	21.76	21.68								
15	16QAM	36	0	21.63	21.70	21.64								
15	16QAM	1	37	21.61	21.68	21.58	23	0.5						
15	16QAM	1	74	21.67	21.73	21.67								
15	16QAM	36	0	21.04	20.97	21.00								
15	16QAM	36	20	21.09	21.05	21.08								
15	16QAM	36	36	21.07	21.02	21.05	22	1.5						
15	16QAM	75	0	21.02	20.99	21.10								
15	16QAM	1	0	21.69	21.70	21.68								
15	16QAM	1	37	21.67	21.76	21.69								
15	16QAM	1	74	21.74	21.59	21.57	22	1.5						
15	16QAM	36	0	20.94	20.98	21.01								
15	16QAM	36	36	21.07	21.08	21.03								
15	16QAM	36	72	20.99	20.95	21.10								
15	16QAM	75	0	21.03	20.99	21.12	19	4.5						
15	16QAM	1	49	17.06	17.09	17.06								
15	256QAM	1	37	17.00	17.01	17.02								
15	256QAM	1	74	18.04	18.04	17.88								
15	256QAM	50	0	17.04	17.04	17.04	19	4.5						
15	256QAM	50	24	17.89	17.89	17.78								
15	256QAM	50	50	18.02	17.81	17.92								
15	256QAM	100	0	17.05	17.00	17.08								
Channel				26005	26040	25905	Turn-up time (sec)	MFR (dB)						
Frequency (MHz)														
10	QPSK	1	0	21.06	22.10	22.02					23.5	0		
10	QPSK	1	20	21.99	22.04	21.99								
10	QPSK	1	40	21.98	21.99	22.03								
10	QPSK	20	0	21.68	21.68	21.72								
10	QPSK	25	12	21.71	21.71	21.69	23	0.5						
10	QPSK	25	25	21.66	21.71	21.67								
10	QPSK	50	0	21.71	21.76	21.71								
10	16QAM	1	0	21.63	21.70	21.61								
10	16QAM	1	20	21.63	21.67	21.65	23	0.5						
10	16QAM	1	40	21.63	21.67	21.65								
10	16QAM	25	12	21.09	21.07	21.10								
10	16QAM	25	25	21.01	20.96	21.10								
10	16QAM	50	0	21.01	20.96	21.10	22	1.5						
10	16QAM	1	0	21.69	21.69	21.67								
10	16QAM	1	20	21.68	21.73	21.68								
10	16QAM	25	12	21.08	21.05	21.09								
10	16QAM	25	25	20.97	21.01	21.03	22	1.5						
10	16QAM	50	0	21.01	20.96	21.10								
10	16QAM	1	40	21.74	21.58	21.56								
10	16QAM	25	12	21.06	21.03	21.10								
10	16QAM	25	25	20.97	21.01	21.03	19	4.5						
10	16QAM	50	0	21.01	20.96	21.10								
10	256QAM	1	0	17.00	17.01	17.02								
10	256QAM	1	20	17.02	17.03	17.04								
10	256QAM	1	40	17.05	17.03	17.05	19	4.5						
10	256QAM	1	20	17.02	17.03	17.04								
10	256QAM	25	12	17.05	17.03	17.05								
10	256QAM	25	25	17.01	17.06	17.03								
10	256QAM	50	0	17.05	17.00	17.08	19	4.5						
Channel				26005	26040	25905					Turn-up time (sec)	MFR (dB)		
Frequency (MHz)														
5	QPSK	1	0	21.07	22.06	22.01								
5	QPSK	1	10	22.01	22.07	22.00								
5	QPSK	1	20	21.99	22.00	22.04								
5	QPSK	12	0	21.70	21.68	21.70								
5	QPSK	12	7	21.72	21.74	21.67	23	0.5						
5	QPSK	12	14	21.68	21.67	21.67								
5	QPSK	25	0	21.69	21.77	21.68								
5	16QAM	1	0	21.65	21.69	21.60								
5	16QAM	1	10	21.67	21.69	21.62	23	0.5						
5	16QAM	1	20	21.67	21.70	21.62								
5	16QAM	12	0	21.02	20.96	21.00								
5	16QAM	12	7	21.02	20.96	21.00								
5	16QAM	25	0	21.01	20.96	21.11	22	1.5						
5	16QAM	25	14	21.01	20.96	21.07								
5	16QAM	50	0	21.01	20.96	21.11								
5	16QAM	1	0	21.69	21.70	21.67								
5	16QAM	1	12	21.68	21.75	21.70	23	0.5						
5	16QAM	25	0	21.01	20.96	21.11								
5	16QAM	12	0	21.01	20.96	21.11								
5	16QAM	12	7	21.01	20.96	21.11								
5	16QAM	12	14	21.01	20.96	21.11	22	1.5						
5	16QAM	25	0	21.01	20.96	21.11								
5	16QAM	25	14	21.01	20.96	21.11								
5	16QAM	50	0	21.01	20.96	21.11								
5	16QAM	1	0	21.69	21.70	21.67	23	0.5						
5	16QAM	1	12	21.68	21.75	21.70								
5	16QAM	25	0	21.01	20.96	21.11								
5	16QAM	25	14	21.01	20.96	21.11								
5	16QAM	50	0	21.01	20.96	21.11	19	4.5						
5	256QAM	1	0	17.00	17.01	17.02								
5	256QAM	1	12	17.02	17.03	17.04								
5	256QAM	1	24	17.05	17.03	17.05								
5	256QAM	12	0	17.02	17.03	17.04	19	4.5						
5	256QAM	12	12	17.05	17.03	17.05								
5	256QAM	12	19	17.01	17.06	17.03								
5	256QAM	25	0	17.05	17.00	17.08								
Channel				26005	26040	25905	Turn-up time (sec)	MFR (dB)						
Frequency (MHz)														
3	QPSK	1	0	21.07	22.06	22.01					23.5	0		
3	QPSK	1	10	22.01	22.07	22.00								
3	QPSK	1	20	21.99	22.00	22.04								
3	QPSK	12	0	21.71	21.67	21.74								
3	QPSK	8	4	21.72	21.76	21.68	23	0.5						
3	QPSK	8	8	21.64	21.73	21.67								
3	QPSK	15	0	21.70	21.75	21.67								
3	16QAM	8	4	21.65	21.70	21.62								
3	16QAM	1	0	21.63	21.66	21.58	23	0.5						
3	16QAM	1	14	21.64	21.69	21.61								
3	16QAM	8	4	21.07	21.02	21.05								
3	16QAM	8	8	21.05	21.07	21.02								
3	16QAM	8	4	21.10	21.07	21.05	22	1.5						
3	16QAM	8	8	21.07	21.08	21.03								
3	16QAM	8	12	21.06	21.13	21.03								
3	16QAM	8	16	21.08	21.70	21.67								
3	16QAM	1	0	21.67	21.74	21.67	23	0.5						
3	16QAM	1	8	21.63	21.68	21.60								
3	16QAM	8	4	21.05	21.05	21.08								
3	16QAM	8	8	21.05	21.05	21.08								
3	16QAM	15	0	21.03	21.02	21.11	22	1.5						
3	16QAM	1	0	21.69	21.71	21.63								
3	16QAM	1	8	21.68	21.74	21.66								
3	16QAM	1	16	21.70	21.75	21.68								
3	16QAM	1	24	21.73	21.68	21.71	19	4.5						
3	16QAM	8	4	21.07	21.02	21.05								
3	16QAM	8	8	21.05	21.06	21.02								
3	16QAM	8	12	21.06	21.13	21.03								
3	16QAM	8	16	21.08	21.70	21.67	19	4.5						
3	16QAM	1	0	21.67	21.74	21.67								
3	16QAM	1	8	21.63	21.68	21.60								
3	16QAM	8	4	21.05	21.05	21.08								
3	16QAM	8	8	21.05	21.05	21.08	22	1.5						
3	16QAM	15	0	21.03	21.02	21.11								
3	16QAM	1	0	21.69	21.71	21.63								
3	16QAM	1	8	21.68	21.74	21.66								
3	16QAM	1	16	21.70	21.75	21.68	19	4.5						
3	16QAM	8	4	21.07	21.02	21.05								
3	16QAM	8	8	21.05	21.06	21.02								
3	16QAM	8	12	21.06	21.13	21.03								
3	16QAM	8	16	21.08	21.70	21.67	19	4.5						
3	16QAM	1	0	21.67	21.74	21.67								
3	16QAM	1	8	21.63	21.68	21.60								
3	16QAM	8	4	21.05	21.05	21.08								
3	16QAM	8	8	21.05	21.05	21.08	22	1.5						
3	16QAM	15	0	21.03	21.02	21.11								
3	16QAM	1	0	21.69	21.71									

Band 26 for FCC Ant1 DS16 Power (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MFR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.27	22.40	22.26	24	0		
15	QPSK	36	0	22.35	22.24	22.35				
15	QPSK	1	74	22.05	22.31	22.36				
15	QPSK	36	0	22.22	22.31	22.34				
15	QPSK	36	36	22.31	22.33	22.32	24	0		
15	16QAM	1	0	22.31	22.34	22.34				
15	16QAM	1	37	22.34	22.20	22.27				
15	16QAM	1	74	22.01	22.27	22.30				
15	16QAM	36	0	22.17	22.18	22.33	24	0		
15	16QAM	36	20	22.26	22.22	22.28				
15	16QAM	36	36	22.26	22.24	22.36				
15	16QAM	75	0	22.31	22.31	22.30				
15	16QAM	1	0	22.09	22.22	22.04	24	0		
15	16QAM	1	37	22.12	22.04	22.01				
15	16QAM	36	0	22.07	22.08	22.18				
15	16QAM	36	20	22.10	22.02	22.11				
15	16QAM	36	36	22.12	22.06	22.10	24	0		
15	16QAM	75	0	22.14	22.08	22.08				
15	256QAM	1	0	18.72	18.74	18.59				
15	256QAM	1	37	18.65	18.67	18.95				
15	256QAM	1	74	18.48	18.85	18.80	20	4		
15	256QAM	50	0	18.63	18.74	18.60				
15	256QAM	36	20	18.44	18.71	18.98				
15	256QAM	36	36	18.98	18.97	19.09				
15	256QAM	75	0	18.61	18.65	18.82	20	4		
Channel				26765	26865	26965				
Frequency (MHz)										
10	QPSK	1	0	22.24	22.37	22.24	24	0		
10	QPSK	36	0	22.32	22.21	22.31				
10	QPSK	1	49	22.00	22.26	22.31				
10	QPSK	25	0	22.18	22.20	22.32				
10	QPSK	25	25	22.28	22.24	22.28	24	0		
10	QPSK	25	25	22.25	22.32	22.36				
10	QPSK	50	0	22.23	22.27	22.30				
10	16QAM	25	0	22.18	22.28	22.17				
10	16QAM	1	25	22.31	22.14	22.23	24	0		
10	16QAM	25	0	22.11	22.14	22.20				
10	16QAM	25	12	22.24	22.17	22.25				
10	16QAM	50	0	22.28	22.28	22.30				
10	16QAM	1	0	22.20	22.34	22.19	24	0		
10	16QAM	1	25	22.29	22.15	22.19				
10	16QAM	1	49	22.07	22.21	22.27				
10	16QAM	25	0	22.14	22.15	22.29				
10	16QAM	25	12	22.23	22.16	22.20	24	0		
10	16QAM	25	25	22.21	22.34	22.30				
10	16QAM	50	0	22.28	22.21	22.25				
10	16QAM	50	0	22.28	22.21	22.25				
10	16QAM	75	0	18.65	18.70	18.60	20	4		
10	256QAM	1	25	18.72	18.68	18.91				
10	256QAM	1	49	18.51	18.66	18.82				
10	256QAM	50	0	18.63	18.65	18.92				
10	256QAM	25	12	18.69	18.77	18.72	20	4		
10	256QAM	25	25	18.63	18.77	18.82				
Channel				26765	26865	26965				
Frequency (MHz)										
5	QPSK	1	0	22.15	22.28	22.15	24	0		
5	QPSK	1	12	22.28	22.17	22.22				
5	QPSK	1	24	22.04	22.21	22.25				
5	QPSK	1	36	22.15	22.11	22.24				
5	QPSK	12	7	22.24	22.21	22.20	24	0		
5	QPSK	12	19	22.20	22.26	22.32				
5	QPSK	12	31	22.27	22.25	22.27				
5	QPSK	12	43	22.12	22.22	22.13				
5	16QAM	1	0	22.13	22.23	22.18	24	0		
5	16QAM	1	12	22.27	22.11	22.21				
5	16QAM	1	24	22.18	22.28	22.22				
5	16QAM	1	36	22.07	22.10	22.27				
5	16QAM	12	7	22.19	22.12	22.19	24	0		
5	16QAM	12	19	22.04	22.28	22.28				
5	16QAM	12	31	22.28	22.24	22.28				
5	16QAM	12	43	22.26	22.28	22.18				
5	16QAM	1	0	22.23	22.26	22.19	24	0		
5	16QAM	1	12	22.23	22.26	22.19				
5	16QAM	1	24	22.23	22.26	22.19				
5	16QAM	1	36	22.23	22.26	22.19				
5	16QAM	12	7	22.19	22.21	22.21	24	0		
5	16QAM	12	19	22.27	22.28	22.25				
5	16QAM	12	31	22.27	22.28	22.25				
5	16QAM	12	43	22.27	22.28	22.25				
5	256QAM	1	0	18.67	18.83	18.75	20	4		
5	256QAM	1	12	18.73	18.62	18.82				
5	256QAM	1	24	18.61	18.78	18.85				
5	256QAM	1	36	18.71	18.58	18.78				
5	256QAM	12	7	18.77	18.85	18.80	20	4		
5	256QAM	12	19	18.63	18.80	18.77				
5	256QAM	12	31	18.87	18.74	18.75				
5	256QAM	12	43	18.87	18.74	18.75				
Channel				26765	26865	26965				
Frequency (MHz)										
3	QPSK	1	0	22.15	22.28	22.15	24	0		
3	QPSK	1	8	22.22	22.13	22.22				
3	QPSK	1	16	22.10	22.11	22.24				
3	QPSK	8	4	22.21	22.17	22.17				
3	QPSK	8	12	22.21	22.21	22.28	24	0		
3	QPSK	8	20	22.26	22.18	22.21				
3	QPSK	8	28	22.21	22.22	22.28				
3	QPSK	8	36	22.26	22.18	22.21				
3	16QAM	1	14	22.00	22.13	22.17	24	0		
3	16QAM	8	6	22.01	22.09	22.14				
3	16QAM	8	14	22.16	22.14	22.18				
3	16QAM	8	22	22.13	22.16	22.17				
3	16QAM	8	30	22.23	22.22	22.21	24	0		
3	16QAM	15	8	22.12	22.22	22.13				
3	16QAM	15	16	22.18	22.14	22.18				
3	16QAM	1	0	18.76	18.69	18.58				
3	256QAM	1	8	18.58	18.63	18.65	20	4		
3	256QAM	1	16	18.52	18.60	18.65				
3	256QAM	8	6	18.69	18.70	18.67				
3	256QAM	8	14	18.62	18.65	18.65				
3	256QAM	8	22	18.75	18.74	18.85	20	4		
3	256QAM	8	30	18.85	18.78	18.85				
3	256QAM	15	8	18.66	18.77	18.68				
3	256QAM	15	16	18.77	18.68	18.77				
Channel				26765	26865	26965				
Frequency (MHz)										
1.4	QPSK	1	0	22.10	22.26	22.13	24	0		
1.4	QPSK	1	8	22.20	22.09	22.17				
1.4	QPSK	1	16	22.04	22.14	22.17				
1.4	QPSK	8	4	22.07	22.06	22.19				
1.4	QPSK	8	12	22.13	22.13	22.14	24	0		
1.4	QPSK	8	20	22.24	22.15	22.14				
1.4	QPSK	8	28	22.23	22.17	22.18				
1.4	QPSK	8	36	22.24	22.12	22.09				
1.4	16QAM	1	0	22.22	22.04	22.14	24	0		
1.4	16QAM	8	6	22.07	22.09	22.15				
1.4	16QAM	8	14	22.03	22.03	22.16				
1.4	16QAM	8	22	22.09	22.05	22.13				
1.4	16QAM	3	3	22.19	22.17	22.22	24	0		
1.4	16QAM	3	11	22.16	22.16	22.22				
1.4	16QAM	3	19	22.10	22.10	22.18				
1.4	16QAM	3	27	22.12	22.02	22.13				
1.4	16QAM	3	35	22.10	22.11	22.14	24	0		
1.4	16QAM	3	43	22.12	22.09	22.18				
1.4	16QAM	3	51	22.08	22.11	22.14				
1.4	16QAM	3	59	22.13	22.13	22.13				
1.4	16QAM	6	6	22.10	22.11	22.13	24	0		
1.4	16QAM	6	14	22.01	22.17	22.18				
1.4	16QAM	6	22	22.15	22.13	22.17				
1.4	16QAM	6	30	22.16	22.09	22.17				
1.4	16QAM	6	38	22.17	22.13	22.17	20	4		
1.4	16QAM	6	46	22.18	22.13	22.17				
1.4	16QAM	6	54	22.16	22.09	22.16				
1.4	16QAM	6	62	22.15	22.08	22.16				
1.4	256QAM	3	3	18.85	18.78	18.67	20	4		
1.4	256QAM	3	11	18.89	18.63	18.77				



Band 38(only on channel required) Ant1 DSI6 Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	21.73	21.98	21.72	23.3	0	
20	QPSK	1	49	21.97	21.93	21.87			
20	QPSK	1	99	21.90	21.82	21.95			
20	QPSK	50	0	21.73	21.93	21.83	23.3	0	
20	QPSK	50	24	21.92	21.88	21.94			
20	QPSK	50	50	21.87	21.92	21.95			
20	QPSK	100	0	21.86	21.93	21.83	23.3	0	
20	16QAM	1	0	21.73	21.76	21.88			
20	16QAM	1	49	21.92	21.91	21.90			
20	16QAM	1	99	21.89	21.87	21.89	23.3	0	
20	16QAM	50	0	21.83	21.79	21.83			
20	16QAM	50	24	21.90	21.85	21.88			
20	16QAM	50	50	21.85	21.90	21.91	23.3	0	
20	16QAM	100	0	21.88	21.88	21.93			
20	64QAM	1	0	21.75	21.76	21.83			
20	64QAM	1	49	21.89	21.91	21.93	23.3	0	
20	64QAM	1	99	21.86	21.88	21.92			
20	64QAM	50	0	21.79	21.92	21.84			
20	64QAM	50	24	21.90	21.83	21.84	23.3	0	
20	64QAM	50	50	21.87	21.85	21.91			
20	64QAM	100	0	21.85	21.90	21.87			
20	256QAM	1	0	21.44	21.54	21.40	23	0.3	
20	256QAM	1	49	21.44	21.42	21.51			
20	256QAM	1	99	21.45	21.45	21.46			
20	256QAM	50	0	21.51	21.55	21.41	23	0.3	
20	256QAM	50	24	21.56	21.53	21.57			
20	256QAM	50	50	21.52	21.47	21.44			
20	256QAM	100	0	21.52	21.42	21.52	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
15	QPSK	1	0	21.69	21.96	21.70	23.3	0	
15	QPSK	1	37	21.94	21.90	21.84			
15	QPSK	1	74	21.77	21.81	21.92			
15	QPSK	36	0	21.69	21.95	21.80	23.3	0	
15	QPSK	36	20	21.90	21.84	21.90			
15	QPSK	36	39	21.86	21.88	21.91			
15	QPSK	75	0	21.84	21.89	21.91	23.3	0	
15	16QAM	1	0	21.69	21.78	21.85			
15	16QAM	1	37	21.89	21.86	21.89			
15	16QAM	1	74	21.86	21.83	21.87	23.3	0	
15	16QAM	36	0	21.78	21.76	21.87			
15	16QAM	36	20	21.87	21.84	21.83			
15	16QAM	36	39	21.80	21.86	21.87	23.3	0	
15	16QAM	75	0	21.87	21.84	21.86			
15	64QAM	1	0	21.72	21.75	21.80			
15	64QAM	1	37	21.85	21.86	21.91	23.3	0	
15	64QAM	1	74	21.84	21.87	21.89			
15	64QAM	36	0	21.75	21.88	21.79			
15	64QAM	36	20	21.89	21.80	21.81	23.3	0	
15	64QAM	36	39	21.83	21.82	21.86			
15	64QAM	75	0	21.82	21.85	21.83			
15	256QAM	1	0	21.39	21.51	21.37	23	0.3	
15	256QAM	1	49	21.41	21.39	21.47			
15	256QAM	1	74	21.41	21.41	21.41			
15	256QAM	36	0	21.48	21.50	21.39	23	0.3	
15	256QAM	36	20	21.51	21.39	21.34			
15	256QAM	36	39	21.50	21.43	21.42			
15	256QAM	75	0	21.50	21.41	21.50	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
10	QPSK	1	0	21.69	21.95	21.69	23.3	0	
10	QPSK	1	25	21.96	21.88	21.82			
10	QPSK	1	49	21.79	21.80	21.93			
10	QPSK	25	0	21.71	21.94	21.80	23.3	0	
10	QPSK	25	12	21.90	21.81	21.91			
10	QPSK	25	25	21.83	21.89	21.92			
10	QPSK	50	0	21.85	21.89	21.90	23.3	0	
10	16QAM	1	0	21.70	21.73	21.83			
10	16QAM	1	25	21.90	21.86	21.88			
10	16QAM	1	49	21.85	21.82	21.84	23.3	0	
10	16QAM	25	0	21.81	21.76	21.80			
10	16QAM	25	12	21.87	21.80	21.83			
10	16QAM	25	25	21.81	21.87	21.88	23.3	0	
10	16QAM	50	0	21.86	21.84	21.91			
10	64QAM	1	0	21.73	21.76	21.82			
10	64QAM	1	25	21.86	21.88	21.91	23.3	0	
10	64QAM	1	49	21.82	21.85	21.90			
10	64QAM	25	0	21.76	21.89	21.79			
10	64QAM	25	12	21.88	21.81	21.83	23.3	0	
10	64QAM	25	25	21.83	21.84	21.87			
10	64QAM	50	0	21.83	21.88	21.83			
10	256QAM	1	0	21.43	21.50	21.38	23	0.3	
10	256QAM	1	25	21.39	21.39	21.46			
10	256QAM	1	49	21.41	21.41	21.44			
10	256QAM	25	0	21.47	21.51	21.38	23	0.3	
10	256QAM	25	12	21.31	21.39	21.32			
10	256QAM	25	25	21.48	21.45	21.41			
10	256QAM	50	0	21.49	21.41	21.47	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
5	QPSK	1	0	21.70	21.96	21.70	23.3	0	
5	QPSK	1	12	21.92	21.89	21.85			
5	QPSK	1	24	21.76	21.77	21.90			
5	QPSK	12	0	21.70	21.95	21.79	23.3	0	
5	QPSK	12	7	21.88	21.82	21.90			
5	QPSK	12	13	21.84	21.90	21.94			
5	QPSK	25	0	21.83	21.90	21.90	23.3	0	
5	16QAM	1	0	21.72	21.71	21.87			
5	16QAM	1	12	21.86	21.87	21.88			
5	16QAM	1	24	21.87	21.84	21.87	23.3	0	
5	16QAM	12	0	21.79	21.75	21.80			
5	16QAM	12	7	21.86	21.84	21.86			
5	16QAM	12	13	21.84	21.88	21.89	23.3	0	
5	16QAM	25	0	21.86	21.84	21.90			
5	64QAM	1	0	21.72	21.73	21.81			
5	64QAM	1	12	21.84	21.89	21.91	23.3	0	
5	64QAM	1	24	21.92	21.87	21.87			
5	64QAM	12	0	21.76	21.86	21.80			
5	64QAM	12	7	21.86	21.80	21.82	23.3	0	
5	64QAM	12	13	21.81	21.81	21.86			
5	64QAM	25	0	21.81	21.87	21.83			
5	256QAM	1	0	21.40	21.53	21.37	23	0.3	
5	256QAM	1	12	21.41	21.41	21.46			
5	256QAM	1	24	21.42	21.41	21.45			
5	256QAM	12	0	21.47	21.54	21.39	23	0.3	
5	256QAM	12	7	21.31	21.39	21.32			
5	256QAM	12	13	21.49	21.46	21.40			
5	256QAM	25	0	21.48	21.38	21.51	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									

Band 38(only on channel required) PC2 Ant1 DSI6 Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	23.53	23.84	23.82	24.9	0	
20	QPSK	1	49	23.80	23.56	23.73			
20	QPSK	1	99	23.63	23.73	23.80			
20	QPSK	50	0	23.53	23.77	23.69	24.9	0	
20	QPSK	50	24	23.88	23.62	23.71			
20	QPSK	50	50	23.66	23.67	23.70			
20	QPSK	100	0	23.66	23.73	23.69	24.9	0	
20	16QAM	1	0	23.55	23.51	23.59			
20	16QAM	1	49	23.82	23.89	23.85			
20	16QAM	1	99	23.84	23.85	23.89	24.9	0	
20	16QAM	50	0	23.46	23.46	23.49			
20	16QAM	50	24	23.84	23.38	23.83			
20	16QAM	50	50	23.58	23.59	23.64	24.9	0	
20	16QAM	100	0	23.56	23.59	23.63			



Band 42 (3.5GHz Band) Ant2 DS16 Power														
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up time (min)	MFR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	19.24	19.52	19.48	20.8	0						
20	QPSK	6	0	19.24	19.47	19.52								
20	QPSK	1	66	19.53	19.38	19.38								
20	QPSK	6	66	19.53	19.44	19.38								
20	QPSK	50	0	19.24	19.52	19.38	20.8	0						
20	QPSK	50	24	19.49	19.55	19.43								
20	QPSK	50	0	19.24	19.52	19.38								
20	QPSK	50	66	19.53	19.38	19.38								
20	QPSK	100	0	19.24	19.52	19.38	20.8	0						
20	QPSK	100	24	19.49	19.55	19.43								
20	QPSK	100	0	19.24	19.52	19.38								
20	QPSK	100	66	19.53	19.38	19.38								
20	HQAM	1	0	19.40	19.31	19.33	20.8	0						
20	HQAM	1	66	19.32	19.47	19.32								
20	HQAM	1	0	19.25	19.29	19.32								
20	HQAM	1	66	19.25	19.41	19.35								
20	HQAM	50	0	19.25	19.29	19.32	20.8	0						
20	HQAM	50	24	19.25	19.29	19.32								
20	HQAM	50	0	19.25	19.29	19.32								
20	HQAM	50	66	19.25	19.41	19.35								
20	25QAM	1	0	18.38	18.43	18.48	18	2.8						
20	25QAM	1	66	18.38	18.43	18.48								
20	25QAM	1	0	18.31	18.36	18.41								
20	25QAM	1	66	18.31	18.36	18.41								
20	25QAM	50	0	18.38	18.43	18.48	18	2.8						
20	25QAM	50	24	18.38	18.43	18.48								
20	25QAM	50	0	18.31	18.36	18.41								
20	25QAM	50	66	18.31	18.36	18.41								
Channel														
Frequency (MHz)														
16	QPSK	1	0	19.25	19.35	19.38	20.8	0						
16	QPSK	1	67	19.33	19.35	19.46								
16	QPSK	1	66	19.43	19.43	19.48								
16	QPSK	1	66	19.33	19.35	19.46								
16	QPSK	36	0	19.33	19.35	19.46	20.8	0						
16	QPSK	36	66	19.33	19.35	19.46								
16	QPSK	36	0	19.27	19.34	19.41								
16	QPSK	36	66	19.27	19.34	19.41								
16	HQAM	1	0	19.37	19.38	19.42	20.8	0						
16	HQAM	1	67	19.31	19.43	19.37								
16	HQAM	1	66	19.31	19.29	19.35								
16	HQAM	1	66	19.31	19.29	19.42								
16	HQAM	36	0	19.37	19.38	19.42	20.8	0						
16	HQAM	36	66	19.37	19.38	19.42								
16	HQAM	36	0	19.30	19.31	19.38								
16	HQAM	36	66	19.30	19.31	19.38								
16	HQAM	75	0	19.37	19.38	19.42	20.8	0						
16	HQAM	75	67	19.31	19.43	19.37								
16	HQAM	75	66	19.31	19.29	19.35								
16	HQAM	75	66	19.31	19.29	19.42								
16	HQAM	1	0	19.30	19.32	19.34	20.8	0						
16	HQAM	1	67	19.24	19.36	19.30								
16	HQAM	1	66	19.24	19.36	19.30								
16	HQAM	1	66	19.24	19.36	19.30								
16	HQAM	36	0	19.30	19.32	19.34	20.8	0						
16	HQAM	36	66	19.30	19.32	19.34								
16	HQAM	36	0	19.23	19.25	19.27								
16	HQAM	36	66	19.23	19.25	19.27								
16	HQAM	75	0	19.30	19.32	19.34	20.8	0						
16	HQAM	75	67	19.24	19.36	19.30								
16	HQAM	75	66	19.24	19.36	19.30								
16	HQAM	75	66	19.24	19.36	19.30								
16	25QAM	1	0	18.23	18.25	18.33	18	2.8						
16	25QAM	1	67	18.23	18.25	18.33								
16	25QAM	1	66	18.23	18.25	18.33								
16	25QAM	1	66	18.23	18.25	18.33								
16	25QAM	36	0	18.23	18.25	18.33	18	2.8						
16	25QAM	36	66	18.23	18.25	18.33								
16	25QAM	36	0	18.24	18.24	18.30								
16	25QAM	36	66	18.24	18.24	18.30								
16	25QAM	75	0	18.23	18.25	18.33	18	2.8						
16	25QAM	75	67	18.14	18.17	18.18								
16	25QAM	75	66	18.14	18.17	18.18								
16	25QAM	75	66	18.14	18.17	18.18								
Channel														
Frequency (MHz)														
5	QPSK	1	0	19.20	19.47	19.36	20.8	0						
5	QPSK	1	12	19.27	19.32	19.41								
5	QPSK	1	24	19.47	19.36	19.27								
5	QPSK	1	66	19.20	19.47	19.36								
5	QPSK	12	0	19.27	19.32	19.41	20.8	0						
5	QPSK	12	7	19.27	19.48	19.36								
5	QPSK	12	15	19.20	19.20	19.41								
5	QPSK	12	66	19.27	19.45	19.37								
5	HQAM	1	0	19.26	19.20	19.42	20.8	0						
5	HQAM	1	12	19.23	19.30	19.40								
5	HQAM	1	24	19.14	19.22	19.32								
5	HQAM	1	66	19.26	19.20	19.40								
5	HQAM	12	0	19.20	19.30	19.40	20.8	0						
5	HQAM	12	7	19.23	19.45	19.37								
5	HQAM	12	15	19.31	19.32	19.41								
5	HQAM	12	66	19.20	19.38	19.47								
5	HQAM	1	0	19.14	19.17	19.40	20.8	0						
5	HQAM	1	12	19.23	19.30	19.40								
5	HQAM	1	24	19.34	19.18	19.18								
5	HQAM	1	66	19.14	19.17	19.40								
5	HQAM	12	0	19.30	19.31	19.39	20.8	0						
5	HQAM	12	7	19.30	19.37	19.37								
5	HQAM	12	15	19.27	19.34	19.43								
5	HQAM	12	66	19.30	19.37	19.47								
5	25QAM	1	0	18.33	18.41	18.35	18	2.8						
5	25QAM	1	66	18.33	18.41	18.35								
5	25QAM	1	0	18.29	18.38	18.40								
5	25QAM	1	66	18.29	18.38	18.40								
5	25QAM	12	0	18.24	18.20	18.23	18	2.8						
5	25QAM	12	7	18.15	18.19	18.18								
5	25QAM	12	15	18.15	18.27	18.18								
5	25QAM	12	66	18.15	18.19	18.18								

Band 42 Part2Q Ant2 DS16 Power										
BW [MHz]	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.51	19.52	19.33	20.8	0		
20	QPSK	1	66	19.49	19.45	19.4				
20	QPSK	50	0	19.54	19.53	19.44				
20	QPSK	50	66	19.41	19.37	19.35				
20	QPSK	1	0	19.24	19.23	19.35	20.8	0		
20	QPSK	1	66	19.24	19.23	19.35				
20	QPSK	50	0	19.43	19.42	19.45				
20	QPSK	50	66	19.46	19.42	19.37				
20	QPSK	1	0	19.44	19.43	19.44	20.8	0		
20	QPSK	1	66	19.44	19.43	19.44				
20	QPSK	50	0	19.53	19.52	19.47				
20	QPSK	50	66	19.45	19.42	19.44				
20	QPSK	1	0	19.42	19.42	19.44	20.8	0		
20	QPSK	1	66	19.42	19.42	19.44				
20	QPSK	50	0	19.42	19.42	19.44				
20	QPSK	50	66	19.42	19.42	19.44				
20	QPSK	1	0	19.43	19.43	19.45	20.8	0		
20	QPSK	1	66	19.43	19.43	19.45				
20	QPSK	50	0	19.43	19.43	19.45				
20	QPSK	50	66	19.43	19.43	19.45				
20	QPSK	1	0	19.45	19.44	19.45	20.8	0		
20	QPSK	1	66	19.45	19.44	19.45				
20	QPSK	50	0	19.45	19.44	19.45				
20	QPSK	50	66	19.45	19.44	19.45				
20	QPSK	1	0	19.46	19.45	19.46	20.8	2.8		
20	QPSK	1	66	19.46	19.45	19.46				
20	QPSK	50	0	19.46	19.45	19.46				
20	QPSK	50	66	19.46	19.45	19.46				
20	QPSK	1	0	19.47	19.46	19.47	20.8	2.8		
20	QPSK	1	66	19.47	19.46	19.47				
20	QPSK	50	0	19.47	19.46	19.47				
20	QPSK	50	66	19.47	19.46	19.47				
20	QPSK	1	0	19.48	19.47	19.48	20.8	2.8		
20	QPSK	1	66	19.48	19.47	19.48				
20	QPSK	50	0	19.48	19.47	19.48				
20	QPSK	50	66	19.48	19.47	19.48				
20	QPSK	1	0	19.49	19.48	19.49	20.8	2.8		
20	QPSK	1	66	19.49	19.48	19.49				
20	QPSK	50	0	19.49	19.48	19.49				
20	QPSK	50	66	19.49	19.48	19.49				
20	QPSK	1	0	19.50	19.49	19.50	20.8	2.8		
20	QPSK	1	66	19.50	19.49	19.50				
20	QPSK	50	0	19.50	19.49	19.50				
20	QPSK	50	66	19.50	19.49	19.50				
20	QPSK	1	0	19.51	19.50	19.51	20.8	2.8		
20	QPSK	1	66	19.51	19.50	19.51				
20	QPSK	50	0	19.51	19.50	19.51				
20	QPSK	50	66	19.51	19.50	19.51				
20	QPSK	1	0	19.52	19.51	19.52	20.8	2.8		
20	QPSK	1	66	19.52	19.51	19.52				
20	QPSK	50	0	19.52	19.51	19.52				
20	QPSK	50	66	19.52	19.51	19.52				
20	QPSK	1	0	19.53	19.52	19.53	20.8	2.8		
20	QPSK	1	66	19.53	19.52	19.53				
20	QPSK	50	0	19.53	19.52	19.53				
20	QPSK	50	66	19.53	19.52	19.53				
20	QPSK	1	0	19.54	19.53	19.54	20.8	2.8		
20	QPSK	1	66	19.54	19.53	19.54				
20	QPSK	50	0	19.54	19.53	19.54				
20	QPSK	50	66	19.54	19.53	19.54				
20	QPSK	1	0	19.55	19.54	19.55	20.8	2.8		
20	QPSK	1	66	19.55	19.54	19.55				
20	QPSK	50	0	19.55	19.54	19.55				
20	QPSK	50	66	19.55	19.54	19.55				
20	QPSK	1	0	19.56	19.55	19.56	20.8	2.8		
20	QPSK	1	66	19.56	19.55	19.56				
20	QPSK	50	0	19.56	19.55	19.56				
20	QPSK	50	66	19.56	19.55	19.56				
20	QPSK	1	0	19.57	19.56	19.57	20.8	2.8		
20	QPSK	1	66	19.57	19.56	19.57				
20	QPSK	50	0	19.57	19.56	19.57				
20	QPSK	50	66	19.57	19.56	19.57				
20	QPSK	1	0	19.58	19.57	19.58	20.8	2.8		
20	QPSK	1	66	19.58	19.57	19.58				
20	QPSK	50	0	19.58	19.57	19.58				
20	QPSK	50	66	19.58	19.57	19.58				
20	QPSK	1	0	19.59	19.58	19.59	20.8	2.8		
20	QPSK	1	66	19.59	19.58	19.59				
20	QPSK	50	0	19.59	19.58	19.59				
20	QPSK	50	66	19.59	19.58	19.59				
20	QPSK	1	0	19.60	19.59	19.60	20.8	2.8		
20	QPSK	1	66	19.60	19.59	19.60				
20	QPSK	50	0	19.60	19.59	19.60				
20	QPSK	50	66	19.60	19.59	19.60				
20	QPSK	1	0	19.61	19.60	19.61	20.8	2.8		
20	QPSK	1	66	19.61	19.60	19.61				
20	QPSK	50	0	19.61	19.60	19.61				
20	QPSK	50	66	19.61	19.60	19.61				
20	QPSK	1	0	19.62	19.61	19.62	20.8	2.8		
20	QPSK	1	66	19.62	19.61	19.62				
20	QPSK	50	0	19.62	19.61	19.62				
20	QPSK	50	66	19.62	19.61	19.62				
20	QPSK	1	0	19.63	19.62	19.63	20.8	2.8		
20	QPSK	1	66	19.63	19.62	19.63				
20	QPSK	50	0	19.63	19.62	19.63				
20	QPSK	50	66	19.63	19.62	19.63				
20	QPSK	1	0	19.64	19.63	19.64	20.8	2.8		
20	QPSK	1	66	19.64	19.63	19.64				
20	QPSK	50	0	19.64	19.63	19.64				
20	QPSK	50	66	19.64	19.63	19.64				
20	QPSK	1	0	19.65	19.64	19.65	20.8	2.8		
20	QPSK	1	66	19.65	19.64	19.65				
20	QPSK	50	0	19.65	19.64	19.65				
20	QPSK	50	66	19.65	19.64	19.65				
20	QPSK	1	0	19.66	19.65	19.66	20.8	2.8		
20	QPSK	1	66	19.66	19.65	19.66				
20	QPSK	50	0	19.66	19.65	19.66				
20	QPSK	50	66	19.66	19.65	19.66				
20	QPSK	1	0	19.67	19.66	19.67	20.8	2.8		
20	QPSK	1	66	19.67	19.66	19.67				
20	QPSK	50	0	19.67	19.66	19.67				
20	QPSK	50	66	19.67	19.66	19.67				
20	QPSK	1	0	19.68	19.67	19.68	20.8	2.8		
20	QPSK	1	66	19.68	19.67	19.68				
20	QPSK	50	0	19.68	19.67	19.68				
20	QPSK	50	66	19.68	19.67	19.68				
20	QPSK	1	0	19.69	19.68	19.69	20.8	2.8		
20	QPSK	1	66	19.69	19.68	19.69				
20	QPSK	50	0	19.69	19.68	19.69				
20	QPSK	50	66	19.69	19.68	19.69				
20	QPSK	1	0	19.70	19.69	19.70	20.8	2.8		
20	QPSK	1	66	19.70	19.69	19.70				
20	QPSK	50	0	19.70	19.69	19.70				
20	QPSK	50	66	19.70	19.69	19.70				
20	QPSK	1	0	19.71	19.70	19.71	20.8	2.8		
20	QPSK	1	66	19.71	19.70	19.71				
20	QPSK	50	0	19.71	19.70	19.71				
20	QPSK	50	66	19.71	19.70	19.71				
20	QPSK	1	0	19.72	19.71	19.72	20.8	2.8		
20	QPSK	1	66	19.72	19.71	19.72				
20	QPSK	50	0	19.72	19.71	19.72				
20	QPSK	50	66	19.72	19.71	19.72				
20	QPSK	1	0	19.73	19.72	19.73	20.8	2.8		
20	QPSK	1	66	19.73	19.72	19.73				
20	QPSK	50	0	19.73	19.72	19.73				
20	QPSK	50	66	19.73	19.72	19.73				
20	QPSK	1	0	19.74	19.73	19.74	20.8	2.8		
20	QPSK	1	66	19.74	19.73	19.74				
20	QPSK	50	0	19.74	19.73	19.74				
20	QPSK	50	66	19.74	19.73	19.74				
20	QPSK	1	0	19.75	19.74	19.75	20.8	2.8		
20	QPSK	1	66	19.75	19.74	19.75				
20	QPSK	50	0	19.75	19.74	19.75				
20	QPSK	50	66	19.75	19.74	19.75				
20	QPSK	1	0	19.76	19.75	19.76	20.8	2.8		
20	QPSK	1	66	19.76	19.75	19.76				
20	QPSK	50	0	19.76	19.75	19.76				
20	QPSK	50	66	19.76	19.75	19.76				
20	QPSK	1	0	19.77	19.76	19.77	20.8	2.8		
20	QPSK	1	66	19.77	19.76	19.77				
20	QPSK	50	0	19.77	19.76	19.77				
20	QPSK	50	66	19.77	19.76	19.77				
20	QPSK	1	0	19.78	19.77	19.78	20.8	2.8		
20	QPSK	1	66	19.78	19.77	19.78				
20	QPSK	50	0	19.78	19.77	19.78				
20	QPSK	50	66	19.78	19.77	19.78				
20	QPSK	1	0	19.79	19.78	19.79	20.8	2.8		
20	QPSK	1	66	19.79	19.78	19.79				
20	QPSK	50	0	19.79	19.78	19.79				
20	QPSK	50	66	19.79	19.78	19.79				
20	QPSK	1	0	19.80	19.79	19.80	20.8	2.8		
20	QPSK	1	66	19.80	19.79	19.80				
20	QPSK	50	0	19.80	19.79	19.80				
20	QPSK	50	66	19.80	19.79	19.80				

Ant1 DS16 Simultaneous Power

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.11	29.15	29.13	29.70	20.11	20.15	20.13	20.70
GPRS 1 Tx slot	29.09	29.14	29.11	29.70	20.09	20.14	20.11	20.70
GPRS 2 Tx slots	26.11	26.14	26.23	26.70	20.11	20.14	20.23	20.70
GPRS 3 Tx slots	23.56	23.66	23.41	24.90	19.30	19.40	19.15	20.64
GPRS 4 Tx slots	22.29	22.38	22.33	23.70	19.29	19.38	19.33	20.70
EDGE 1 Tx slot	25.11	25.03	25.21	26.50	16.11	16.03	16.21	17.50
EDGE 2 Tx slots	23.59	23.50	23.57	24.50	17.59	17.50	17.57	18.50
EDGE 3 Tx slots	22.46	22.37	22.55	23.50	18.20	18.11	18.29	19.24
EDGE 4 Tx slots	20.04	20.01	20.10	21.00	17.04	17.01	17.10	18.00

Ant1 DS16 Simultaneous Power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9562	9600	9638		1537	1638	1738	
Frequency (MHz)	1552.4	1580	1597.5		1712.4	1739.6	1752.8	
3GPP Rel 99 AMR 12.2Kbps	18.60	18.69	18.66	19.70	19.67	19.77	19.57	20.80
3GPP Rel 99 RMC 12.2Kbps	18.63	18.72	18.69	19.70	19.66	19.76	19.60	20.80
3GPP Rel 6 HSDPA Subtest-1	17.45	17.46	17.55	18.70	18.69	18.79	18.59	19.80
3GPP Rel 6 HSDPA Subtest-2	17.52	17.51	17.64	18.70	18.70	18.72	18.52	19.80
3GPP Rel 6 HSDPA Subtest-3	16.98	16.89	17.10	18.20	18.18	18.22	18.03	19.30
3GPP Rel 6 HSDPA Subtest-4	16.96	16.93	17.09	18.20	18.19	18.23	18.08	19.30
3GPP Rel 6 DC-HSDPA Subtest-1	17.24	17.20	17.45	18.70	18.60	18.59	18.32	19.80
3GPP Rel 8 DC-HSDPA Subtest-2	17.41	17.35	17.54	18.70	18.54	18.46	18.41	19.80
3GPP Rel 8 DC-HSDPA Subtest-3	16.80	16.71	16.81	18.20	18.02	18.11	17.94	19.30
3GPP Rel 8 DC-HSDPA Subtest-4	16.72	16.71	16.92	18.20	18.09	18.02	17.81	19.30
3GPP Rel 6 HSUPA Subtest-1	17.49	17.47	17.61	18.70	18.59	18.72	18.54	19.80
3GPP Rel 6 HSUPA Subtest-2	15.51	15.41	15.63	16.70	16.62	16.76	16.48	17.80
3GPP Rel 6 HSUPA Subtest-3	16.40	16.51	16.57	17.70	17.63	17.65	17.51	18.80
3GPP Rel 6 HSUPA Subtest-4	15.49	15.44	15.51	16.70	16.67	16.70	16.52	17.80
3GPP Rel 6 HSUPA Subtest-5	17.50	17.47	17.53	18.70	18.62	18.76	18.55	19.80



Band 2 Ant0 DS16 Simultaneous Power												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Med Ch./Freq.	Power High Ch./Freq.	Turn-up Init. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.77	20.89	20.84			22	0		
20	QPSK	1	49	20.78	20.83	20.81						
20	QPSK	1	99	20.89	20.85	20.78			22	0		
20	QPSK	50	0	20.75	20.84	20.53						
20	QPSK	50	24	20.83	20.78	20.79			22	0		
20	QPSK	50	50	20.76	20.78	20.78						
20	QPSK	100	0	20.79	20.80	20.53			22	0		
20	HQAM	1	0	20.71	20.85	20.58						
20	HQAM	1	49	20.86	20.60	20.79			22	0		
20	HQAM	1	99	20.72	20.63	20.77						
20	HQAM	50	0	20.78	20.73	20.82			22	0		
20	HQAM	50	24	20.87	20.59	20.84						
20	HQAM	50	50	20.77	20.78	20.75			22	0		
20	HQAM	100	0	20.79	20.85	20.58						
20	HQAM	1	0	20.59	20.58	20.73			22	0		
20	HQAM	1	49	20.67	20.64	20.76						
20	HQAM	50	0	20.76	20.78	20.69			22	0		
20	HQAM	50	0	20.75	20.78	20.55						
20	HQAM	50	24	20.68	20.68	20.46			22	0		
20	HQAM	50	50	20.78	20.78	20.80						
20	HQAM	100	0	20.70	20.72	20.69			20	2		
20	SSBQAM	1	49	19.11	19.21	19.19						
20	SSBQAM	1	99	19.10	19.24	19.09			20	2		
20	SSBQAM	50	0	19.10	19.23	19.20						
20	SSBQAM	50	24	19.12	19.24	19.24			20	2		
20	SSBQAM	50	50	19.19	19.18	18.99						
20	SSBQAM	100	0	19.18	19.07	19.18			20	2		
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.67	18.80	19.02					22	0
15	QPSK	1	0	20.89	20.87	20.74						
15	QPSK	1	37	20.86	20.81	20.78			22	0		
15	QPSK	1	74	20.48	20.62	20.60						
15	QPSK	36	0	20.89	20.72	20.49			22	0		
15	QPSK	36	0	20.73	20.68	20.60						
15	QPSK	36	36	20.72	20.72	20.49			22	0		
15	QPSK	75	0	20.68	20.78	20.49						
15	HQAM	1	0	20.68	20.68	20.48			22	0		
15	HQAM	1	37	20.62	20.58	20.74						
15	HQAM	36	0	20.65	20.67	20.48			22	0		
15	HQAM	36	0	20.65	20.67	20.48						
15	HQAM	36	20	20.61	20.45	20.54			22	0		
15	HQAM	36	20	20.71	20.39	20.57						
15	HQAM	75	0	20.71	20.39	20.57			22	0		
15	HQAM	1	0	20.44	20.59	20.58						
15	HQAM	36	0	20.64	20.61	20.54			22	0		
15	HQAM	36	36	20.67	20.64	20.52						
15	HQAM	36	36	20.67	20.64	20.52			22	0		
15	HQAM	75	0	20.64	20.61	20.54						
15	SSBQAM	1	0	18.66	18.84	19.02			20	2		
15	SSBQAM	1	37	19.03	19.13	19.07						
15	SSBQAM	1	74	19.03	19.14	18.95			20	2		
15	SSBQAM	36	0	19.04	19.08	19.04						
15	SSBQAM	36	20	19.10	19.13	19.09			20	2		
15	SSBQAM	36	39	19.03	19.09	18.94						
15	SSBQAM	75	0	19.05	19.07	19.18			20	2		
15	SSBQAM	1	0	19.05	19.07	19.18						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.84	20.78	20.81			22	0		
10	QPSK	1	25	20.73	20.69	20.81						
10	QPSK	1	49	20.84	20.52	20.73			22	0		
10	QPSK	25	0	20.89	20.78	20.53						
10	QPSK	25	12	20.78	20.74	20.62			22	0		
10	QPSK	25	25	20.62	20.73	20.48						
10	HQAM	1	0	20.87	20.62	20.48			22	0		
10	HQAM	1	25	20.56	20.60	20.74						
10	HQAM	25	0	20.83	20.48	20.58			22	0		
10	HQAM	25	0	20.87	20.71	20.58						
10	HQAM	25	12	20.43	20.48	20.53			22	0		
10	HQAM	25	12	20.87	20.71	20.58						
10	HQAM	50	0	20.87	20.48	20.53			22	0		
10	HQAM	1	0	20.44	20.49	20.71						
10	HQAM	1	25	20.62	20.52	20.61			22	0		
10	HQAM	1	49	20.84	20.76	20.81						
10	HQAM	25	0	20.73	20.65	20.48			22	0		
10	HQAM	25	12	20.67	20.55	20.62						
10	HQAM	25	25	20.76	20.71	20.58			22	0		
10	HQAM	50	0	20.57	20.59	20.63						
10	SSBQAM	1	0	18.67	19.02	19.08			20	2		
10	SSBQAM	1	25	19.00	19.15	19.18						
10	SSBQAM	1	49	19.06	19.14	19.02			20	2		
10	SSBQAM	25	0	19.07	19.21	19.05						
10	SSBQAM	25	12	19.09	19.08	19.15			20	2		
10	SSBQAM	25	25	19.13	19.08	18.93						
10	SSBQAM	50	0	19.11	19.07	19.02			20	2		
10	SSBQAM	1	0	19.11	19.07	19.02						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.72	20.65	20.73			22	0		
5	QPSK	1	12	20.62	20.75	20.70						
5	QPSK	1	24	20.61	20.59	20.69			22	0		
5	QPSK	12	0	20.71	20.68	20.68						
5	QPSK	12	7	20.81	20.73	20.59			22	0		
5	QPSK	12	13	20.63	20.75	20.56						
5	QPSK	25	0	20.73	20.71	20.58			22	0		
5	HQAM	1	0	20.56	20.63	20.50						
5	HQAM	1	12	20.61	20.57	20.70			22	0		
5	HQAM	1	24	20.66	20.62	20.52						
5	HQAM	12	0	20.70	20.62	20.69			22	0		
5	HQAM	12	7	20.42	20.48	20.53						
5	HQAM	12	14	20.73	20.65	20.68			22	0		
5	HQAM	25	0	20.85	20.49	20.54						
5	HQAM	1	0	20.48	20.45	20.60			22	0		
5	HQAM	1	12	20.63	20.61	20.71						
5	HQAM	1	24	20.72	20.73	20.54			22	0		
5	HQAM	12	0	20.68	20.69	20.45						
5	HQAM	12	7	20.63	20.67	20.46			22	0		
5	HQAM	12	13	20.85	20.75	20.58						
5	HQAM	25	0	20.67	20.62	20.64			20	2		
5	HQAM	1	0	18.84	19.21	19.05						
5	SSBQAM	1	12	18.96	19.18	19.11			20	2		
5	SSBQAM	1	24	19.02	19.14	18.96						
5	SSBQAM	12	0	19.05	19.18	19.20			20	2		
5	SSBQAM	12	7	19.09	19.12	19.17						
5	SSBQAM	25	0	19.15	19.08	19.17			20	2		
5	SSBQAM	1	0	19.15	19.08	19.17						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.71	20.74	20.69			22	0		
3	QPSK	1	8	20.67	20.69	20.82						
3	QPSK	1	14	20.50	20.60	20.72			22	0		
3	QPSK	8	0	20.68	20.68	20.44						
3	QPSK	8	4	20.81	20.74	20.63			22	0		
3	QPSK	8	7	20.73	20.65	20.47						
3	HQAM	1	0	20.70	20.68	20.43			22	0		
3	HQAM	1	0	20.65	20.61	20.49						
3	HQAM	8	0	20.59	20.52	20.67			22	0		
3	HQAM	8	4	20.72	20.68	20.51						
3	HQAM	8	7	20.58	20.68	20.46			22	0		
3	HQAM	14	0	20.59	20.58	20.71						
3	HQAM	14	8	20.68	20.68	20.39			22	0		
3	HQAM	14	14	20.59	20.58	20.71						
3	HQAM	8	0	20.68	20.68	20.46			22	0		
3	HQAM	8	4	20.72	20.68	20.51						
3	HQAM	8	7	20.58	20.68	20.46			22	0		
3	HQAM	1	0	20.45	20.46	20.60						
3	HQAM	1	8	20.65	20.65	20.76			22	0		
3	HQAM	1	14	20.73	20.75	20.56						
3	HQAM	8	0	20.72	20.66	20.40			22	0		
3	HQAM	8	4	20.75	20.75	20.57						
3	HQAM	8	7	20.61	20.58	20.62			22	0		
3	HQAM	1	0	19.26	19.31	19.11						
3	SSBQAM	1	8	19.06	19.18	19.03			20	2		
3	SSBQAM	1	14	19.08	19.13	19.03						
3	SSBQAM	8	0	19.18	19.17	19.17			20	2		
3	SSBQAM	3	0	19.05	19.10	18.88						
3	SSBQAM	3	8	19.05	19.10	18.88			20	2		
3	SSBQAM	3	14	19.05	19.10	18.88						

Band 25 Ant0 DS16 Simultaneous Power												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power High Ch./Freq.	Turn-up time (dB)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.78	21.02	20.88	22	0				
20	QPSK	1	49	20.84	20.68	20.87						
20	QPSK	1	99	20.80	20.77	20.82						
20	QPSK	50	0	20.64	20.88	20.67						
20	QPSK	50	24	20.85	20.75	20.74	22	0				
20	QPSK	50	50	20.76	20.69	20.69						
20	HQAM	1	49	20.72	20.62	20.76						
20	HQAM	1	99	20.67	20.72	20.81						
20	HQAM	50	0	20.79	20.81	20.76	22	0				
20	HQAM	50	24	20.68	20.77	20.81						
20	HQAM	50	50	20.66	20.80	20.73						
20	HQAM	100	0	20.67	20.60	20.72						
20	HQAM	1	0	20.68	20.65	20.62	22	0				
20	HQAM	1	49	20.68	20.78	20.86						
20	HQAM	1	99	20.79	20.71	20.74						
20	HQAM	50	0	20.72	20.64	20.65						
20	HQAM	50	24	20.61	20.78	20.86	22	0				
20	HQAM	50	50	20.63	20.69	20.70						
20	HQAM	100	0	20.67	20.60	20.72						
20	HQAM	1	0	20.68	20.65	20.62						
20	HQAM	1	49	19.17	19.32	19.27	20	2				
20	HQAM	1	99	19.26	19.28	19.17						
20	HQAM	50	24	19.11	19.23	19.20						
20	HQAM	50	50	19.20	19.08	19.19						
20	HQAM	100	0	19.24	19.18	19.15	20	2				
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.67	19.63	19.69			22	0		
15	QPSK	1	37	20.78	20.70	20.71						
15	QPSK	1	74	20.79	20.64	20.62						
15	QPSK	36	0	20.67	20.62	20.69						
15	QPSK	36	20	20.76	20.68	20.62	22	0				
15	QPSK	36	36	20.68	20.71	20.73						
15	QPSK	75	0	20.69	20.70	20.74						
15	HQAM	1	0	20.69	20.70	20.66						
15	HQAM	1	37	20.74	20.48	20.72	22	0				
15	HQAM	1	74	20.65	20.79	20.72						
15	HQAM	36	0	20.70	20.79	20.72						
15	HQAM	36	20	20.58	20.80	20.67						
15	HQAM	75	0	20.45	20.67	20.62	22	0				
15	HQAM	1	0	20.69	20.74	20.66						
15	HQAM	1	37	20.64	20.77	20.71						
15	HQAM	1	74	20.65	20.72	20.62						
15	HQAM	36	0	20.70	20.69	20.68	22	0				
15	HQAM	36	20	20.61	20.71	20.71						
15	HQAM	36	36	20.53	20.80	20.71						
15	HQAM	75	0	20.60	20.67	20.65						
15	HQAM	1	0	19.15	19.30	19.22	20	2				
15	HQAM	1	37	19.07	19.34	19.21						
15	HQAM	1	74	19.26	19.21	19.11						
15	HQAM	36	0	19.28	19.14	19.16						
15	HQAM	36	20	19.07	19.14	19.24	20	2				
15	HQAM	36	36	19.04	18.97	19.05						
15	HQAM	75	0	19.15	19.15	19.15						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.78	20.84	20.80	22	0				
10	QPSK	1	25	20.84	20.84	20.80						
10	QPSK	1	49	20.65	20.80	20.79						
10	QPSK	25	0	20.60	20.79	20.79						
10	QPSK	25	12	20.78	20.71	20.74	22	0				
10	QPSK	25	25	20.75	20.71	20.88						
10	QPSK	36	0	20.68	20.74	20.74						
10	HQAM	1	0	20.65	20.69	20.69						
10	HQAM	1	25	20.66	20.60	20.68	22	0				
10	HQAM	1	49	20.69	20.70	20.69						
10	HQAM	25	0	20.66	20.78	20.69						
10	HQAM	25	12	20.61	20.75	20.75						
10	HQAM	36	0	20.67	20.75	20.75	22	0				
10	HQAM	36	25	20.47	20.75	20.75						
10	HQAM	50	0	20.40	20.77	20.59						
10	HQAM	1	0	20.68	20.63	20.68						
10	HQAM	1	25	20.63	20.74	20.73	22	0				
10	HQAM	1	49	20.73	20.67	20.72						
10	HQAM	25	0	20.67	20.68	20.69						
10	HQAM	25	12	20.63	20.60	20.70						
10	HQAM	50	0	20.40	20.77	20.59	22	0				
10	HQAM	1	0	20.68	20.63	20.68						
10	HQAM	1	25	20.63	20.62	20.74						
10	HQAM	1	49	20.73	20.67	20.72						
10	HQAM	25	0	20.67	20.68	20.69	22	0				
10	HQAM	25	12	20.63	20.60	20.70						
10	HQAM	50	0	19.22	19.25	19.26						
10	HQAM	1	0	19.22	19.25	19.26						
10	HQAM	1	25	19.07	19.25	19.20	20	2				
10	HQAM	1	49	19.27	19.24	19.18						
10	HQAM	25	0	19.20	19.24	19.15						
10	HQAM	25	12	19.06	19.22	19.11						
10	HQAM	25	25	19.10	19.04	19.12	20	2				
10	HQAM	50	0	19.17	19.08	19.07						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.60	20.65	20.71	22	0				
5	QPSK	1	12	20.78	20.83	20.77						
5	QPSK	1	24	20.78	20.62	20.81						
5	QPSK	12	0	20.69	20.75	20.65						
5	QPSK	12	7	20.76	20.78	20.69	22	0				
5	QPSK	12	13	20.71	20.65	20.69						
5	QPSK	36	0	20.62	20.76	20.72						
5	HQAM	1	0	20.65	20.68	20.63						
5	HQAM	1	12	20.73	20.65	20.78	22	0				
5	HQAM	1	24	20.11	20.75	20.73						
5	HQAM	12	0	20.65	20.83	20.77						
5	HQAM	12	7	20.66	20.76	20.81						
5	HQAM	12	13	20.11	20.66	20.72	22	0				
5	HQAM	25	0	20.39	20.78	20.69						
5	HQAM	1	0	20.74	20.60	20.62						
5	HQAM	1	12	20.60	20.73	20.64						
5	HQAM	1	24	20.73	20.64	20.68	22	0				
5	HQAM	12	0	20.65	20.63	20.65						
5	HQAM	12	7	20.65	20.60	20.65						
5	HQAM	12	13	20.43	20.47	20.60						
5	HQAM	25	0	20.69	20.60	20.66	20	2				
5	HQAM	25	0	19.21	19.27	19.30						
5	HQAM	1	0	19.21	19.27	19.30						
5	HQAM	1	12	19.12	19.27	19.14						
5	HQAM	1	24	19.20	19.18	19.17	20	2				
5	HQAM	12	0	19.20	19.23	19.12						
5	HQAM	12	7	19.10	19.23	19.17	20	2				
5	HQAM	12	13	19.11	19.07	19.12						
5	HQAM	25	0	19.13	19.03	19.02	20	2				
5	HQAM	25	0	19.13	19.03	19.02						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.61	18.80	19.15	22	0				
3	QPSK	1	8	20.66	20.79	20.76						
3	QPSK	1	16	20.77	20.64	20.74						
3	QPSK	1	24	20.62	20.74	20.74						
3	QPSK	8	0	20.58	20.79	20.63	22	0				
3	QPSK	8	8	20.67	20.71	20.71						
3	QPSK	8	16	20.65	20.61	20.62						
3	QPSK	16	0	20.61	20.77	20.62						
3	HQAM	1	0	20.79	20.60	20.62	22	0				
3	HQAM	1	8	20.75	20.59	20.59						
3	HQAM	1	16	20.60	20.67	20.67						
3	HQAM	8	0	20.63	20.62	20.63						
3	HQAM	8	8	20.49	20.67	20.67	22	0				
3	HQAM	8	16	20.57	20.59	20.57						
3	HQAM	16	0	20.56	20.60	20.61						
3	HQAM	16	8	20.57	20.45	20.42						
3	HQAM	1	0	20.70	20.54	20.63	22	0				
3	HQAM	8	0	20.60	20.62	20.60						
3	HQAM	8	8	20.48	20.63	20.63						
3	HQAM	8	16	20.48	20.48	20.48						
3	HQAM	16	0	20.57	20.43	20.46	22	0				
3	HQAM	16	8	20.57	20.45	20.42						
3	HQAM	16	16	20.57	20.45	20.42						
3	HQAM	32	0	20.57	20.45	20.42						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16	20.73	20.46	20.46						
3	HQAM	16	0	20.73	20.46	20.46						
3	HQAM	1	0	20.69	20.50	20.51	22	0				
3	HQAM	1	8	20.73	20.46	20.46						
3	HQAM	1	16									

Band 41 (2.6G Band) Ant0 DSI6 Simultaneous Power											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	22.92	23.02	23.24	22.87	22.87	23.5	0	
20	QPSK	1	49	23.09	23.14	23.19	23.19	23.17			
20	QPSK	1	99	23.02	23.13	23.23	22.98	23.14	23.5	0	
20	QPSK	50	0	22.79	22.97	23.06	22.73	22.84			
20	QPSK	50	24	22.93	22.86	22.84	22.94	23.01	23.5	0	
20	QPSK	50	50	22.90	23.03	22.89	22.86	22.94			
20	QPSK	100	0	22.90	22.96	23.04	22.84	22.92	23.5	0	
20	16QAM	1	0	22.83	22.81	22.86	22.60	22.71			
20	16QAM	1	49	22.89	22.93	22.86	22.64	22.67	23.5	0	
20	16QAM	1	99	22.84	22.89	22.88	22.79	22.86			
20	16QAM	50	0	22.40	22.54	22.73	22.38	22.46	23.5	0	
20	16QAM	50	24	22.61	22.57	22.64	22.69	22.64			
20	16QAM	50	50	22.57	22.59	22.68	22.54	22.70	23.5	0	
20	16QAM	100	0	22.31	22.51	22.62	22.35	22.33			
20	64QAM	1	0	22.49	22.60	22.68	22.37	22.46	23.5	0	
20	64QAM	1	49	22.67	22.59	22.64	22.63	22.52			
20	64QAM	1	99	22.55	22.61	22.65	22.31	22.50	23.5	0	
20	64QAM	50	0	22.42	22.66	22.72	22.41	22.46			
20	64QAM	50	24	22.58	22.51	22.45	22.64	22.62	23.5	0	
20	64QAM	50	50	22.60	22.72	22.54	22.46	22.65			
20	64QAM	100	0	22.59	22.66	22.67	22.54	22.62	23	0.5	
20	256QAM	1	0	21.63	21.61	21.92	21.59	21.66			
20	256QAM	1	49	21.72	21.79	21.80	21.82	21.77	23	0.5	
20	256QAM	1	99	21.74	21.78	21.91	21.69	21.79			
20	256QAM	50	0	21.50	21.60	21.76	21.42	21.43	23	0.5	
20	256QAM	50	24	21.63	21.56	21.48	21.57	21.65			
20	256QAM	50	50	21.54	21.74	21.55	21.47	21.59	23	0.5	
20	256QAM	100	0	21.50	21.65	21.68	21.44	21.58			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	22.88	22.90	23.13	22.79	22.74	24	0	
15	QPSK	1	37	22.94	22.99	23.07	23.11	23.11			
15	QPSK	1	74	22.95	23.05	23.08	22.83	23.06	23.5	0	
15	QPSK	36	0	22.69	22.90	22.92	22.63	22.75			
15	QPSK	36	20	22.81	22.82	22.76	22.78	22.87	23.5	0	
15	QPSK	36	39	22.77	22.93	22.77	22.79	22.91			
15	QPSK	75	0	22.79	22.83	22.91	22.75	22.81	23.5	0	
15	16QAM	1	0	22.73	22.66	22.80	22.48	22.59			
15	16QAM	1	37	22.74	22.80	22.73	22.54	22.59	23.5	0	
15	16QAM	1	74	22.78	22.81	22.85	22.69	22.81			
15	16QAM	36	0	22.30	22.40	22.66	22.33	22.41	23.5	0	
15	16QAM	36	20	22.47	22.50	22.57	22.61	22.62			
15	16QAM	36	39	22.52	22.55	22.55	22.45	22.60	23.5	0	
15	16QAM	75	0	22.26	22.40	22.55	22.27	22.19			
15	64QAM	1	0	22.33	22.55	22.55	22.26	22.41	23.5	0	
15	64QAM	1	37	22.60	22.55	22.53	22.61	22.44			
15	64QAM	1	74	22.46	22.50	22.54	22.22	22.37	23.5	0	
15	64QAM	36	0	22.34	22.59	22.65	22.33	22.38			
15	64QAM	36	20	22.48	22.42	22.43	22.59	22.51	23.5	0	
15	64QAM	36	39	22.57	22.59	22.51	22.43	22.52			
15	64QAM	75	0	22.55	22.56	22.52	22.47	22.53	23	0.5	
15	256QAM	1	0	21.48	21.48	21.88	21.49	21.56			
15	256QAM	1	37	21.64	21.68	21.70	21.69	21.67	23	0.5	
15	256QAM	1	74	21.66	21.66	21.77	21.58	21.77			
15	256QAM	36	0	21.36	21.46	21.63	21.30	21.31	23	0.5	
15	256QAM	36	20	21.47	21.44	21.39	21.46	21.56			
15	256QAM	36	39	21.43	21.65	21.46	21.38	21.56	23	0.5	
15	256QAM	75	0	21.43	21.58	21.64	21.31	21.50			
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	22.88	22.94	23.17	22.75	22.83	24	0	
10	QPSK	1	25	23.02	23.07	23.04	23.08	23.05			
10	QPSK	1	49	22.96	23.04	23.12	22.86	23.02	23.5	0	
10	QPSK	25	0	22.64	22.84	23.00	22.67	22.73			
10	QPSK	25	12	22.88	22.71	22.76	22.82	22.98	23.5	0	
10	QPSK	25	25	22.81	22.91	22.74	22.77	22.90			
10	QPSK	50	0	22.81	22.86	22.98	22.80	22.89	23.5	0	
10	16QAM	1	0	22.72	22.75	22.73	22.50	22.65			
10	16QAM	1	25	22.76	22.83	22.72	22.50	22.60	23.5	0	
10	16QAM	1	49	22.72	22.84	22.77	22.63	22.84			
10	16QAM	25	0	22.26	22.52	22.69	22.27	22.41	23.5	0	
10	16QAM	25	12	22.50	22.48	22.53	22.65	22.51			
10	16QAM	25	25	22.51	22.56	22.63	22.41	22.61	23.5	0	
10	16QAM	50	0	22.21	22.39	22.53	22.22	22.20			
10	64QAM	1	0	22.44	22.50	22.59	22.29	22.36	23.5	0	
10	64QAM	1	25	22.63	22.46	22.54	22.60	22.43			
10	64QAM	1	49	22.43	22.48	22.58	22.18	22.48	23.5	0	
10	64QAM	25	0	22.29	22.54	22.58	22.36	22.30			
10	64QAM	25	12	22.46	22.36	22.42	22.50	22.52	23.5	0	
10	64QAM	25	25	22.47	22.67	22.43	22.31	22.58			
10	64QAM	50	0	22.43	22.61	22.53	22.44	22.56	23	0.5	
10	256QAM	1	0	21.59	21.53	21.79	21.56	21.63			
10	256QAM	1	25	21.69	21.75	21.69	21.79	21.69	23	0.5	
10	256QAM	1	49	21.68	21.74	21.87	21.58	21.65			
10	256QAM	25	0	21.41	21.56	21.69	21.32	21.35	23	0.5	
10	256QAM	25	12	21.55	21.54	21.45	21.50	21.62			
10	256QAM	25	25	21.51	21.65	21.46	21.34	21.54	23	0.5	
10	256QAM	50	0	21.36	21.58	21.56	21.32	21.43			
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	22.86	22.99	23.16	22.82	22.82	24	0	
5	QPSK	1	12	22.99	23.04	23.11	23.10	23.10			
5	QPSK	1	24	22.90	23.04	23.12	22.96	23.02	23.5	0	
5	QPSK	12	0	22.75	22.91	22.91	22.59	22.77			
5	QPSK	12	7	22.84	22.79	22.73	22.85	22.99	23.5	0	
5	QPSK	12	13	22.82	22.90	22.82	22.75	22.90			
5	QPSK	25	0	22.75	22.85	22.97	22.68	22.88	23.5	0	
5	16QAM	1	0	22.77	22.70	22.74	22.45	22.62			
5	16QAM	1	12	22.80	22.83	22.74	22.53	22.62	23.5	0	
5	16QAM	1	24	22.69	22.85	22.83	22.63	22.78			
5	16QAM	12	0	22.28	22.45	22.58	22.31	22.32	23.5	0	
5	16QAM	12	7	22.56	22.42	22.54	22.59	22.51			
5	16QAM	12	13	22.45	22.55	22.58	22.39	22.68	23.5	0	
5	16QAM	25	0	22.26	22.40	22.56	22.24	22.19			
5	64QAM	1	0	22.46	22.56	22.55	22.26	22.32	23.5	0	
5	64QAM	1	12	22.64	22.48	22.53	22.58	22.50			
5	64QAM	1	24	22.41	22.57	22.53	22.19	22.46	23.5	0	
5	64QAM	12	0	22.39	22.53	22.69	22.32	22.38			
5	64QAM	12	7	22.47	22.36	22.37	22.51	22.55	23.5	0	
5	64QAM	12	13	22.55	22.58	22.49	22.31	22.51			
5	64QAM	25	0	22.51	22.50	22.57	22.39	22.54	23	0.5	
5	256QAM	1	0	21.56	21.50	21.79	21.44	21.63			
5	256QAM	1	12	21.64	21.66	21.67	21.73	21.66	23	0.5	
5	256QAM	1	24	21.71	21.70	21.79	21.61	21.71			
5	256QAM	12	0	21.47	21.48	21.65	21.39	21.41	23	0.5	
5	256QAM	12	7	21.48	21.44	21.33	21.52	21.50			
5	256QAM	12	13	21.42	21.71	21.46	21.34	21.53	23	0.5	
5	256QAM	25	0	21.44	21.50	21.56	21.29	21.43			

Band 2 Ant1 DS16 Simultaneous Power												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-on Init. (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.37	20.50	20.59			22	0		
20	QPSK	1	49	20.38	20.47	20.44						
20	QPSK	1	99	20.34	20.33	20.37			22	0		
20	QPSK	50	0	20.38	20.43	20.59						
20	QPSK	24	0	20.38	20.37	20.34			22	0		
20	QPSK	50	50	20.28	20.31	20.35						
20	QPSK	100	0	20.31	20.25	20.37			22	0		
20	16QAM	1	0	20.31	20.40	20.35						
20	16QAM	1	49	20.26	20.39	20.31			22	0		
20	16QAM	1	99	20.31	20.33	20.32						
20	16QAM	50	0	20.24	20.27	20.38			22	0		
20	16QAM	50	24	20.33	20.40	20.41						
20	16QAM	50	50	20.19	20.31	20.21			22	0		
20	16QAM	100	0	20.24	20.32	20.27						
20	64QAM	1	0	20.20	20.29	20.31			22	0		
20	64QAM	1	49	20.19	20.38	20.35						
20	64QAM	50	0	20.19	20.38	20.35			22	0		
20	64QAM	50	24	20.21	20.25	20.25						
20	64QAM	100	0	20.21	20.29	20.25			22	0		
20	64QAM	100	50	20.20	20.22	20.27						
20	256QAM	1	0	19.16	19.04	19.06			20	2		
20	256QAM	1	49	19.23	19.24	19.20						
20	256QAM	1	99	19.36	19.34	19.23			20	2		
20	256QAM	50	0	19.22	19.22	19.14						
20	256QAM	50	24	19.21	19.22	19.14			20	2		
20	256QAM	50	50	19.31	19.28	19.24						
20	256QAM	100	0	19.15	19.20	19.18						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18.07	18.00	18.03			22	0		
15	QPSK	1	37	20.33	20.39	20.38						
15	QPSK	1	74	20.34	20.32	20.35			22	0		
15	QPSK	36	0	20.32	20.41	20.35						
15	QPSK	36	36	20.22	20.38	20.32			22	0		
15	QPSK	36	36	20.30	20.31	20.35						
15	QPSK	75	0	20.32	20.34	20.31			22	0		
15	16QAM	1	0	20.26	20.40	20.31						
15	16QAM	1	37	20.23	20.37	20.27			22	0		
15	16QAM	1	49	20.36	20.34	20.30						
15	16QAM	36	0	20.24	20.29	20.40			22	0		
15	16QAM	36	20	20.30	20.35	20.38						
15	16QAM	75	0	20.21	20.35	20.23			22	0		
15	64QAM	1	0	20.19	20.22	20.28						
15	64QAM	1	37	20.20	20.36	20.25			22	0		
15	64QAM	1	74	20.30	20.35	20.27						
15	64QAM	36	0	20.19	20.25	20.17			22	0		
15	64QAM	36	20	20.17	20.29	20.25						
15	64QAM	36	36	20.16	20.19	20.31			22	0		
15	64QAM	75	0	20.12	20.31	20.27						
15	256QAM	1	0	18.06	18.06	18.06			20	2		
15	256QAM	1	37	19.22	19.21	19.20						
15	256QAM	1	74	19.32	19.32	19.28			20	2		
15	256QAM	50	0	19.01	19.10	19.05						
15	256QAM	50	24	19.20	19.25	19.12			20	2		
15	256QAM	50	36	19.29	19.23	19.23						
15	256QAM	75	0	19.18	19.18	19.18						
Channel												
Frequency (MHz)												
10	QPSK	1	0	16.05	16.00	16.03			22	0		
10	QPSK	1	25	20.27	20.38	20.35						
10	QPSK	1	49	20.31	20.28	20.39			22	0		
10	QPSK	25	0	20.33	20.44	20.35						
10	QPSK	25	12	20.22	20.35	20.24			22	0		
10	QPSK	25	25	20.29	20.29	20.40						
10	QPSK	25	25	20.32	20.30	20.36			22	0		
10	16QAM	1	0	20.30	20.38	20.34						
10	16QAM	1	25	20.23	20.38	20.25			22	0		
10	16QAM	25	0	20.21	20.28	20.42						
10	16QAM	25	12	20.30	20.38	20.41			22	0		
10	16QAM	25	25	20.16	20.32	20.24						
10	64QAM	1	0	20.19	20.22	20.26			22	0		
10	64QAM	1	25	20.18	20.33	20.23						
10	64QAM	1	49	20.30	20.33	20.27			22	0		
10	64QAM	25	0	20.16	20.24	20.15						
10	64QAM	25	12	20.21	20.18	20.33			22	0		
10	64QAM	25	25	20.16	20.21	20.32						
10	64QAM	50	0	20.16	20.29	20.25			20	2		
10	256QAM	1	0	18.05	18.05	18.05						
10	256QAM	1	25	19.27	19.23	19.21			20	2		
10	256QAM	1	49	19.33	19.30	19.22						
10	256QAM	12	0	19.00	19.10	19.05			20	2		
10	256QAM	25	12	19.19	19.24	19.08						
10	256QAM	25	25	19.27	19.29	19.25			20	2		
10	256QAM	50	0	19.07	19.15	19.15						
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.35	20.41	20.37			22	0		
5	QPSK	1	12	20.27	20.37	20.35						
5	QPSK	1	24	20.34	20.33	20.40			22	0		
5	QPSK	12	0	20.34	20.43	20.37						
5	QPSK	12	7	20.26	20.38	20.25			22	0		
5	QPSK	12	13	20.26	20.28	20.37						
5	QPSK	24	0	20.23	20.28	20.33			22	0		
5	16QAM	1	0	20.25	20.38	20.33						
5	16QAM	1	12	20.24	20.33	20.24			22	0		
5	16QAM	1	24	20.30	20.31	20.31						
5	16QAM	12	0	20.21	20.30	20.40			22	0		
5	16QAM	12	7	20.31	20.39	20.41						
5	16QAM	12	13	20.18	20.33	20.32			22	0		
5	16QAM	25	0	20.17	20.34	20.26						
5	64QAM	1	0	20.19	20.22	20.25			22	0		
5	64QAM	1	12	20.17	20.35	20.31						
5	64QAM	1	24	20.33	20.30	20.31			22	0		
5	64QAM	12	0	20.14	20.26	20.14						
5	64QAM	12	7	20.16	20.20	20.25			22	0		
5	64QAM	12	13	20.17	20.22	20.31						
5	64QAM	25	0	20.10	20.31	20.26			20	2		
5	256QAM	1	0	18.06	18.03	18.07						
5	256QAM	1	12	19.26	19.21	19.18			20	2		
5	256QAM	12	7	19.18	19.22	19.13						
5	256QAM	12	13	19.26	19.27	19.26			20	2		
5	256QAM	25	0	19.11	19.15	19.30						
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.34	20.32	20.35			22	0		
3	QPSK	1	8	20.24	20.43	20.38						
3	QPSK	1	14	20.34	20.33	20.40			22	0		
3	QPSK	8	0	20.37	20.45	20.35						
3	QPSK	8	4	20.26	20.34	20.27			22	0		
3	QPSK	8	7	20.30	20.34	20.37						
3	QPSK	16	0	20.24	20.28	20.34			22	0		
3	QPSK	16	8	20.31	20.41	20.36						
3	16QAM	1	8	20.26	20.35	20.25			22	0		
3	16QAM	1	14	20.29	20.32	20.30						
3	16QAM	8	0	20.22	20.38	20.21			22	0		
3	16QAM	8	7	20.27	20.31	20.38						
3	16QAM	16	0	20.16	20.22	20.25			22	0		
3	16QAM	16	8	20.21	20.30	20.30						
3	64QAM	1	0	20.19	20.22	20.25			22	0		
3	64QAM	8	0	20.17	20.22	20.18						
3	64QAM	8	4	20.21	20.15	20.29			22	0		
3	64QAM	8	7	20.18	20.27	20.31						
3	64QAM	16	0	20.11	20.32	20.23			22	0		
3	64QAM	16	8	20.16	20.26	20.31						
3	256QAM	1	0	19.24	19.22	19.18			20	2		
3	256QAM	1	14	19.28	19.32	19.18						
3	256QAM	1	8	19.29	19.29	19.27			20	2		
3	256QAM	8	7	19.28	19.28	19.23						
3	256QAM	8	7	19.28	19.28	19.23						
3	256QAM	16	0	19.15	19.27	19.15						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	18.07	18.00	18.03			22	0		
1.4	QPSK	1	41	20.33	20.39	20.38						
1.4	QPSK	1	3	20.26	20.43	20.36			22	0		
1.4	QPSK	1	3	20.26	20.29	20.38						
1.4	QPSK	1	45	20.30	20.37	20.34			22	0		
1.4	QPSK	3	1	20.22	20.35	20.21						
1.4	QPSK	3	3	20.26	20.34	20.37			22	0		
1.4	16QAM	1	0	20.25	20.38	20.32						
1.4	16QAM	1	3	20.26	20.34	20.37			22	0		
1.4	16QAM	3	3	20.26	20.28	20.41						
1.4	16QAM	3	1	20.32	20.34	20.42			22	0		
1.4	16QAM	3	3	20.32	20.31	20.37						
1.4	16QAM	6	0	20.20	20.36	20.27			22	0		
1.4	64QAM	1	0	20.19	20.21	20.28						
1.4	64QAM	1	3	20.17	20.37	20.32			22	0		
1.4	64QAM	1	6	20.33	20.36	20.33						
1.4	64QAM	3	0	20.16	20.23	20.19			22	0		
1.4	64QAM	3	3	20.27	20.18	20.27						
1.4	64QAM	6	0	20.18	20.18	20.28			22			



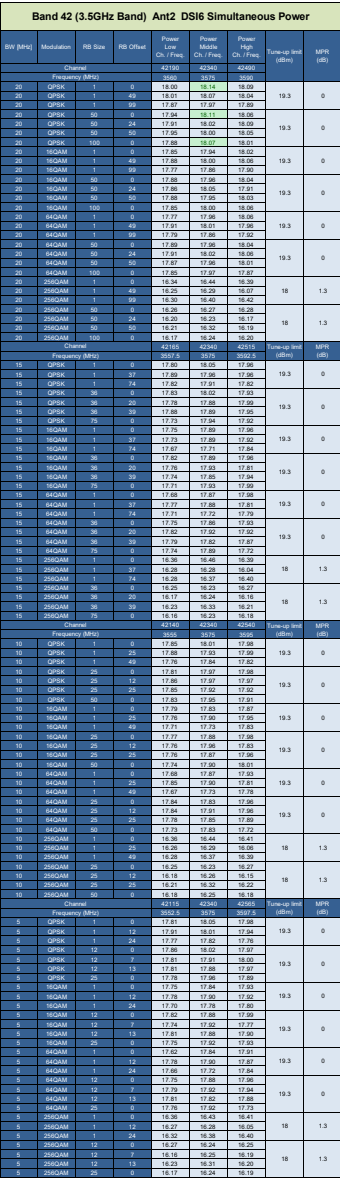
Band 25 Ant1 DS16 Simultaneous Power										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Med Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Turn-up time (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.51	20.66	20.50	22	0		
20	QPSK	1	49	20.43	20.52	20.51				
20	QPSK	1	99	20.45	20.44	20.51				
20	QPSK	50	0	20.50	20.50	20.51				
20	QPSK	24	0	20.37	20.51	20.45	22	0		
20	QPSK	50	50	20.42	20.45	20.49				
20	QPSK	100	0	20.33	20.37	20.31				
20	HQAM	1	0	20.43	20.53	20.48				
20	HQAM	1	49	20.40	20.51	20.42	22	0		
20	HQAM	1	99	20.42	20.48	20.45				
20	HQAM	50	0	20.49	20.42	20.50				
20	HQAM	50	24	20.46	20.54	20.50				
20	HQAM	50	50	20.34	20.44	20.40	22	0		
20	HQAM	100	0	20.38	20.48	20.40				
20	HQAM	1	0	20.36	20.39	20.42				
20	HQAM	1	49	20.34	20.50	20.48				
20	HQAM	1	99	20.48	20.50	20.47	22	0		
20	HQAM	50	0	20.31	20.40	20.30				
20	HQAM	50	24	20.35	20.38	20.39				
20	HQAM	50	50	20.32	20.34	20.41				
20	HQAM	100	0	20.27	20.45	20.42	22	0		
20	HQAM	1	0	17.70	17.75	17.60				
20	HQAM	1	49	17.69	17.69	17.59				
20	HQAM	1	99	18.06	18.07	17.88				
20	HQAM	50	24	17.75	17.82	17.82	19	3		
20	HQAM	50	24	17.66	17.66	17.86				
20	HQAM	50	50	18.05	18.00	18.00				
20	HQAM	100	0	17.68	17.74	18.00				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.27	18.80	19.07	22	0		
15	QPSK	1	37	20.44	20.49	20.48				
15	QPSK	1	74	20.44	20.50	20.51				
15	QPSK	1	111	20.43	20.43	20.51				
15	QPSK	36	0	20.40	20.52	20.49	22	0		
15	QPSK	36	36	20.53	20.50	20.39				
15	QPSK	36	36	20.37	20.45	20.44				
15	QPSK	75	0	20.43	20.38	20.49				
15	HQAM	1	0	20.43	20.51	20.49	22	0		
15	HQAM	1	37	20.40	20.47	20.43				
15	HQAM	1	74	20.43	20.45	20.47				
15	HQAM	36	0	20.37	20.40	20.48				
15	HQAM	36	20	20.42	20.50	20.49	22	0		
15	HQAM	36	36	20.29	20.42	20.46				
15	HQAM	75	0	20.33	20.45	20.38				
15	HQAM	75	0	20.33	20.49	20.38				
15	HQAM	1	0	20.30	20.49	20.49	22	0		
15	HQAM	1	74	20.44	20.47	20.44				
15	HQAM	36	0	20.29	20.36	20.30				
15	HQAM	36	36	20.32	20.32	20.36				
15	HQAM	36	36	20.30	20.35	20.35	22	0		
15	HQAM	75	0	20.27	20.44	20.38				
15	HQAM	75	0	17.70	17.72	17.60				
15	HQAM	1	37	17.69	17.65	17.50				
15	HQAM	1	74	18.05	18.06	17.86	19	3		
15	HQAM	36	0	17.73	17.81	17.81				
15	HQAM	36	20	17.67	17.65	17.85				
15	HQAM	36	36	18.06	18.00	17.88				
15	HQAM	75	0	17.69	17.74	17.80	19	3		
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.48	20.44	20.45	22	0		
10	QPSK	1	25	20.41	20.52	20.48				
10	QPSK	1	49	20.43	20.41	20.52				
10	QPSK	25	0	20.51	20.54	20.49				
10	QPSK	25	12	20.32	20.51	20.40	22	0		
10	QPSK	25	25	20.42	20.41	20.49				
10	QPSK	49	0	20.44	20.34	20.45				
10	HQAM	1	0	20.42	20.33	20.43				
10	HQAM	1	25	20.37	20.49	20.42	22	0		
10	HQAM	1	49	20.38	20.44	20.45				
10	HQAM	25	0	20.35	20.42	20.52				
10	HQAM	25	12	20.42	20.53	20.50				
10	HQAM	25	25	20.31	20.35	20.37	22	0		
10	HQAM	50	0	20.32	20.43	20.39				
10	HQAM	1	0	20.33	20.49	20.38				
10	HQAM	1	25	20.31	20.51	20.45				
10	HQAM	1	49	20.45	20.48	20.47	22	0		
10	HQAM	25	0	20.31	20.35	20.39				
10	HQAM	25	12	20.35	20.33	20.33				
10	HQAM	25	25	20.31	20.35	20.37				
10	HQAM	50	0	20.23	20.45	20.41	22	0		
10	HQAM	1	0	17.70	17.74	17.60				
10	HQAM	1	25	17.67	17.66	17.51				
10	HQAM	1	49	18.05	18.04	17.84				
10	HQAM	25	0	17.77	17.80	17.65	19	3		
10	HQAM	25	12	17.81	17.84	17.81				
10	HQAM	25	25	18.03	17.96	18.00				
10	HQAM	50	0	17.68	17.62	17.60				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.47	20.52	20.45	22	0		
5	QPSK	1	12	20.43	20.51	20.51				
5	QPSK	1	24	20.40	20.41	20.48				
5	QPSK	12	0	20.46	20.51	20.50				
5	QPSK	12	7	20.35	20.48	20.38	22	0		
5	QPSK	12	13	20.39	20.48	20.46				
5	QPSK	12	13	20.40	20.33	20.41				
5	HQAM	1	0	20.40	20.51	20.49				
5	HQAM	1	12	20.37	20.49	20.39	22	0		
5	HQAM	1	24	20.42	20.45	20.45				
5	HQAM	12	0	20.40	20.41	20.47				
5	HQAM	12	7	20.45	20.50	20.51				
5	HQAM	12	13	20.32	20.42	20.36	22	0		
5	HQAM	25	0	20.37	20.45	20.37				
5	HQAM	1	0	20.36	20.38	20.37				
5	HQAM	1	12	20.29	20.45	20.47				
5	HQAM	1	24	20.47	20.47	20.43	22	0		
5	HQAM	12	0	20.31	20.40	20.30				
5	HQAM	12	7	20.38	20.33	20.30				
5	HQAM	12	13	20.29	20.31	20.30				
5	HQAM	25	0	20.22	20.41	20.42	22	0		
5	HQAM	1	0	17.68	17.66	17.56				
5	HQAM	1	12	17.69	17.69	17.59				
5	HQAM	1	24	18.01	18.07	17.94				
5	HQAM	12	0	17.76	17.78	17.68	19	3		
5	HQAM	12	7	17.77	17.78	17.88				
5	HQAM	12	13	18.02	17.96	18.00				
5	HQAM	25	0	17.68	17.60	17.80				
Channel										
Frequency (MHz)										
3	QPSK	1	0	20.51	20.65	20.45	22	0		
3	QPSK	1	12	20.47	20.52	20.48				
3	QPSK	1	14	20.42	20.41	20.48				
3	QPSK	8	0	20.50	20.63	20.51				
3	QPSK	8	8	20.47	20.50	20.46	22	0		
3	QPSK	8	8	20.41	20.43	20.48				
3	HQAM	1	0	20.42	20.38	20.48				
3	HQAM	1	12	20.38	20.53	20.46				
3	HQAM	8	0	20.38	20.50	20.39	22	0		
3	HQAM	1	14	20.32	20.48	20.47				
3	HQAM	8	8	20.37	20.43	20.45				
3	HQAM	8	8	20.45	20.51	20.51				
3	HQAM	8	7	20.30	20.45	20.52	22	0		
3	HQAM	8	7	20.44	20.43	20.43				
3	HQAM	8	7	20.46	20.46	20.46				
3	HQAM	8	7	20.47	20.47	20.47				
3	HQAM	16	0	20.27	20.45	20.45	22	0		
3	HQAM	1	0	17.66	17.71	17.67				
3	HQAM	1	12	17.69	17.69	17.59				
3	HQAM	1	14	18.02	18.07	17.96				
3	HQAM	1	14	17.72	17.78	17.77	19	3		
3	HQAM	8	8	17.91	17.95	17.85				
3	HQAM	8	7	18.04	17.87	17.88				
3	HQAM	8	7	18.03	17.80	17.83				
Channel										
Frequency (MHz)										
1	QPSK	1	0	20.46	20.60	20.50	22	0		
1	QPSK	1	12	20.42	20.52	20.48				
1	QPSK	1	8	20.44	20.41	20.48				
1	QPSK	8	0	20.48	20.56	20.46				
1	QPSK	8	8	20.56	20.56	20.56	22	0		
1	QPSK	3	3	20.43	20.45	20.46				
1	QPSK	3	3	20.57	20.57	20.57				
1	HQAM	1	0	20.42	20.52	20.44				
1	HQAM	1	3	20.39	20.48	20.41	22	0		
1	HQAM	1	3	20.47	20.47	20.47				
1	HQAM	3	3	20.38	20.40	20.40				
1	HQAM	3	3	20.44	20.54	20.52				
1	HQAM	3	3	20.43	20.43	20.51	22	0		
1	HQAM	3	3	20.45	20.45	20.47				
1	HQAM	3	3	20.35	20.42	20.42				
1	HQAM	3	3	20.33	20.38	20.43				
1	HQAM	3	3	20.43	20.43	20.47	22	0		
1	HQAM	3	3	20.29	20.34	20.38				
1	HQAM	3	3	20.32	20.32	20.32				
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39	22	0		
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39	22	0		
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39				
1	HQAM	3	3	20.39	20.39	20.39	22	0		
1	HQAM	3	3	20.39						



ESPORTONE LTD.

Band 38 Ant1 DS16 Simultaneous Power									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel Frequency (MHz)									
20	QPSK	1	0	20.25	20.51	20.32	21.8	0	
20	QPSK	1	49	20.25	20.38	20.39			
20	QPSK	1	99	20.33	20.25	20.29			
20	QPSK	50	0	20.25	20.48	20.34	21.8	0	
20	QPSK	50	24	20.42	20.27	20.36			
20	QPSK	50	50	20.39	20.41	20.26			
20	QPSK	100	0	20.38	20.43	20.24	21.8	0	
20	16QAM	1	0	20.23	20.30	20.32			
20	16QAM	1	49	20.38	20.39	20.30			
20	16QAM	1	99	20.42	20.41	20.36	21.8	0	
20	16QAM	50	0	20.24	20.27	20.31			
20	16QAM	50	24	20.38	20.32	20.27			
20	16QAM	50	50	20.37	20.39	20.26	21.8	0	
20	16QAM	100	0	20.38	20.34	20.39			
20	16QAM	1	0	20.21	20.32	20.28			
20	64QAM	1	49	20.40	20.39	20.37	21.8	0	
20	64QAM	1	99	20.33	20.36	20.30			
20	64QAM	50	0	20.25	20.23	20.31			
20	64QAM	50	24	20.38	20.35	20.32	21.8	0	
20	64QAM	50	50	20.26	20.28	20.36			
20	64QAM	100	0	20.34	20.37	20.23			
20	256QAM	1	0	20.23	20.20	20.28	21.8	0	
20	256QAM	1	49	20.46	20.37	20.34			
20	256QAM	1	99	20.36	20.35	20.29			
20	256QAM	50	0	20.30	20.27	20.34	21.8	0	
20	256QAM	50	24	20.40	20.37	20.35			
20	256QAM	50	50	20.29	20.37	20.30			
20	256QAM	100	0	20.35	20.40	20.22			
Channel Frequency (MHz)									
15	QPSK	1	0	20.33	20.46	20.28	21.8	0	
15	QPSK	1	37	20.20	20.36	20.38			
15	QPSK	1	74	20.31	20.32	20.32			
15	QPSK	36	0	20.32	20.35	20.32	21.8	0	
15	QPSK	36	20	20.37	20.23	20.34			
15	QPSK	36	39	20.34	20.37	20.22			
15	QPSK	75	0	20.37	20.39	20.23	21.8	0	
15	16QAM	1	0	20.21	20.35	20.28			
15	16QAM	1	37	20.33	20.35	20.28			
15	16QAM	1	74	20.39	20.37	20.35	21.8	0	
15	16QAM	36	0	20.23	20.24	20.27			
15	16QAM	36	20	20.32	20.28	20.35			
15	16QAM	36	39	20.35	20.35	20.23	21.8	0	
15	16QAM	75	0	20.37	20.31	20.36			
15	64QAM	1	0	20.17	20.20	20.24			
15	64QAM	1	37	20.35	20.35	20.24	21.8	0	
15	64QAM	1	74	20.30	20.31	20.26			
15	64QAM	36	0	20.23	20.22	20.29			
15	64QAM	36	20	20.36	20.28	20.32	21.8	0	
15	64QAM	36	39	20.32	20.24	20.31			
15	64QAM	75	0	20.31	20.33	20.20			
15	256QAM	1	0	20.21	20.18	20.25	21.8	0	
15	256QAM	1	37	20.41	20.38	20.26			
15	256QAM	1	74	20.32	20.33	20.25			
15	256QAM	36	0	20.26	20.24	20.33	21.8	0	
15	256QAM	36	20	20.36	20.36	20.24			
15	256QAM	36	39	20.31	20.35	20.21			
15	256QAM	75	0	20.33	20.30	20.27			
Channel Frequency (MHz)									
10	QPSK	1	0	20.33	20.49	20.30	21.8	0	
10	QPSK	1	25	20.22	20.35	20.34			
10	QPSK	1	49	20.29	20.31	20.27			
10	QPSK	25	0	20.20	20.46	20.32	21.8	0	
10	QPSK	25	12	20.38	20.28	20.32			
10	QPSK	25	25	20.35	20.36	20.23			
10	QPSK	50	0	20.35	20.40	20.21	21.8	0	
10	16QAM	1	0	20.20	20.28	20.29			
10	16QAM	1	25	20.38	20.38	20.20			
10	16QAM	1	49	20.37	20.39	20.34	21.8	0	
10	16QAM	25	0	20.31	20.25	20.26			
10	16QAM	25	12	20.34	20.34	20.32			
10	16QAM	25	25	20.33	20.37	20.25	21.8	0	
10	16QAM	50	0	20.36	20.30	20.35			
10	64QAM	1	0	20.19	20.21	20.24			
10	64QAM	1	24	20.36	20.35	20.25	21.8	0	
10	64QAM	1	49	20.32	20.32	20.28			
10	64QAM	25	0	20.20	20.21	20.29			
10	64QAM	25	12	20.34	20.34	20.32	21.8	0	
10	64QAM	25	25	20.33	20.34	20.32			
10	64QAM	50	0	20.32	20.35	20.21			
10	256QAM	1	0	20.22	20.16	20.27	21.8	0	
10	256QAM	1	25	20.43	20.32	20.33			
10	256QAM	1	49	20.34	20.31	20.27			
10	256QAM	25	0	20.25	20.25	20.29	21.8	0	
10	256QAM	25	12	20.38	20.33	20.22			
10	256QAM	25	25	20.27	20.34	20.26			
10	256QAM	50	0	20.32	20.38	20.18			
Channel Frequency (MHz)									
5	QPSK	1	0	20.33	20.49	20.28	21.8	0	
5	QPSK	1	12	20.23	20.34	20.36			
5	QPSK	1	24	20.28	20.32	20.27			
5	QPSK	12	0	20.32	20.47	20.30	21.8	0	
5	QPSK	12	7	20.38	20.23	20.34			
5	QPSK	12	13	20.35	20.36	20.23			
5	QPSK	25	0	20.36	20.36	20.19	21.8	0	
5	16QAM	1	0	20.21	20.27	20.30			
5	16QAM	1	12	20.35	20.36	20.29			
5	16QAM	1	24	20.39	20.38	20.33	21.8	0	
5	16QAM	12	0	20.19	20.25	20.28			
5	16QAM	12	7	20.35	20.30	20.25			
5	16QAM	12	13	20.36	20.37	20.21	21.8	0	
5	16QAM	25	0	20.37	20.31	20.36			
5	64QAM	1	0	20.18	20.18	20.27			
5	64QAM	1	12	20.35	20.36	20.35	21.8	0	
5	64QAM	1	24	20.29	20.34	20.28			
5	64QAM	12	0	20.23	20.22	20.28			
5	64QAM	12	7	20.35	20.34	20.21	21.8	0	
5	64QAM	12	13	20.22	20.28	20.33			
5	64QAM	25	0	20.33	20.33	20.21			
5	256QAM	1	0	20.20	20.17	20.25	21.8	0	
5	256QAM	1	12	20.42	20.36	20.31			
5	256QAM	1	24	20.32	20.33	20.25			
5	256QAM	12	0	20.28	20.25	20.30	21.8	0	
5	256QAM	12	7	20.37	20.35	20.24			
5	256QAM	12	13	20.25	20.34	20.28			
5	256QAM	25	0	20.33	20.35	20.17			

Band 38 PC2 Ant1 DS16 Simultaneous Power											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel Frequency (MHz)				37650	38000	38150					
20	QPSK	1	0	22.29	22.36	22.34	23.4	0			
20	QPSK	1	49	22.31	22.27	22.17					
20	QPSK	1	99	22.24	22.31	22.13					
20	QPSK	50	0	22.08	22.20	22.14	23.4	0			
20	QPSK	50	24	22.17	22.13	22.27					
20	QPSK	50	50	22.16	22.21	22.22					
20	QPSK	100	0	22.13	22.23	22.18	23.4	0			
20	16QAM	1	0	22.02	22.11	22.12					
20	16QAM	1	49	22.18	22.02	22.17					
20	16QAM	1	99	22.20	22.14	22.23	23.4	0			
20	16QAM	50	0	22.00	22.04	22.08					
20	16QAM	50	24	22.16	22.13	22.23					
20	16QAM	50	50	22.16	22.17	22.24	23.4	0			
20	16QAM	100	0	22.14	22.13	22.18					
20	64QAM	1	0	22.16	22.14	22.21					
20	64QAM	1	49	22.19	22.14	22.08	23.4	0			
20	64QAM	1	99	22.25	22.18	22.11	23.4	0			
20	64QAM	50	0	21.99	22.01	22.10					
20	64QAM	50	24	22.16	22.12	22.22					
20	64QAM	50	50	22.19	22.11	22.11	23.4	0			
20	64QAM	100	0	22.05	22.09	22.08					
20	256QAM	1	0	22.09	22.14	22.05					
20	256QAM	1	49	22.11	22.06	21.92	23.4	0			
20	256QAM	1	99	22.11	22.06	22.11					
20	256QAM	50	0	21.84	22.14	22.04					
20	256QAM	50	24	22.05	22.05	21.96	23.4	0			
20	256QAM	50	50	22.11	22.11	22.17					
20	256QAM	100	0	22.05	22.09	22.08					
Channel Frequency (MHz)				37625	38000	38115	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	22.75	22.96	22.62.5	23.4	0			
15	QPSK	1	37	22.25	22.34	22.33					
15	QPSK	1	74	22.23	22.29	22.24					
15	QPSK	36	0	22.04	22.25	22.09	23.4	0			
15	QPSK	36	20	22.13	22.11	22.24					
15	QPSK	36	36	22.12	22.16	22.19					
15	QPSK	75	0	22.08	22.21	22.16	23.4	0			
15	16QAM	1	0	21.98	22.06	22.07					
15	16QAM	1	37	22.15	22.19	22.13					
15	16QAM	1	74	22.15	22.12	22.22	23.4	0			
15	16QAM	36	0	21.96	21.99	22.08					
15	16QAM	36	20	22.12	22.11	22.19					
15	16QAM	36	36	22.11	22.12	22.23	23.4	0			
15	16QAM	75	0	22.10	22.08	22.13					
15	64QAM	1	0	22.13	22.13	22.17					
15	64QAM	1	37	22.17	22.09	22.06	23.4	0			
15	64QAM	1	74	22.21	22.16	22.08					
15	64QAM	36	0	21.94	21.97	22.07					
15	64QAM	36	20	22.13	22.08	22.17	23.4	0			
15	64QAM	36	36	22.00	22.12	22.19					
15	64QAM	75	0	22.08	22.15	22.18					
15	256QAM	1	0	22.08	22.10	22.02	23.4	0			
15	256QAM	1	37	22.08	22.03	21.91					
15	256QAM	1	74	22.06	22.08	21.94					
15	256QAM	36	0	21.81	22.11	22.02	23.4	0			
15	256QAM	36	20	22.01	22.03	21.92					
15	256QAM	36	36	21.89	22.10	22.07					
15	256QAM	75	0	22.01	22.06	22.02	23.4	0			
15	Channel			37600	38000	38000					
15	QPSK	1	0	22.95	22.95	22.95			Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.26	22.32	22.33	23.4	0			
10	QPSK	1	25	22.23	22.24	22.13					
10	QPSK	1	49	22.23	22.27	22.21					
10	QPSK	25	0	22.02	22.28	22.10	23.4	0			
10	QPSK	25	12	22.12	22.11	22.24					
10	QPSK	25	25	22.13	22.13	22.18					
10	QPSK	50	0	22.08	22.22	22.15	23.4	0			
10	16QAM	1	0	22.00	22.09	22.09					
10	16QAM	1	25	22.14	21.88	22.16					
10	16QAM	1	49	22.19	22.08	22.21	23.4	0			
10	16QAM	25	0	21.96	22.01	22.04					
10	16QAM	25	12	22.10	22.09	22.18					
10	16QAM	25	25	22.12	22.16	22.19	23.4	0			
10	16QAM	50	0	22.12	22.08	22.15					
10	64QAM	1	0	22.15	22.13	22.19					
10	64QAM	1	25	22.16	22.12	22.05	23.4	0			
10	64QAM	1	49	22.21	22.13	22.08					
10	64QAM	25	12	22.16	21.87	22.08					
10	64QAM	25	25	22.13	22.11	22.21	23.4	0			
10	64QAM	50	0	22.12	22.15	22.17					
10	256QAM	1	0	22.05	22.10	22.02					
10	256QAM	1	25	22.07	22.01	21.97	23.4	0			
10	256QAM	1	49	22.08	22.06	22.15					
10	256QAM	25	0	21.80	22.12	22.01					
10	256QAM	25	12	22.05	22.02	21.93	23.4	0			
10	256QAM	25	25	21.88	22.08	22.02					
10	256QAM	50	0	22.03	22.07	22.02					
Channel Frequency (MHz)				37775	38000	38025	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	22.28	22.33	22.31	23.4	0			
5	QPSK	1	12	22.28	22.23	22.15					
5	QPSK	1	24	22.19	22.29	22.12					
5	QPSK	12	0	22.04	22.24	22.09	23.4	0			
5	QPSK	12	7	22.13	22.11	22.24					
5	QPSK	12	13	22.12	22.18	22.20					
5	QPSK	25	0	22.11	22.21	22.14	23.4	0			
5	16QAM	1	0	21.99	22.07	22.09					
5	16QAM	1	12	22.16	22.00	22.13					
5	16QAM	1	24	22.17	22.13	22.19	23.4	0			
5	16QAM	12	0	21.98	22.03	22.04					
5	16QAM	12	7	22.12	22.11	22.21					
5	16QAM	12	13	22.15	22.14	22.23	23.4	0			
5	16QAM	25	0	22.10	22.12	22.18					
5	64QAM	1	0	22.14	22.12	22.18					
5	64QAM	1	12	22.14	22.10	22.04	23.4	0			
5	64QAM	1	24	22.22	22.15	22.10					
5	64QAM	12	0	21.97	21.97	22.05					
5	64QAM	12	13	22.14	22.10	22.21	23.4	0			
5	64QAM	25	0	22.09	22.14	22.15					
5	256QAM	1	0	22.07	22.10	22.02					
5	256QAM	1	12	22.09	22.07	22.16	23.4	0			
5	256QAM	1	24	22.09	22.07	22.19					
5	256QAM	12	0	21.82	22.10	22.03					
5	256QAM	12	13	22.07	22.06	22.12	23.4	0			
5	256QAM	12	25	21.88	22.08	22.07					
5	256QAM	25	0	22.03	22.05	22.02					



Band 42 217QZ An2 DS16 Simultaneous Power									
SR [dBm]	Modulation	RB Size	SR Offset	Power Spectral Density [dBm/Hz]	Power Spectral Density [dBm/Hz]	Power Spectral Density [dBm/Hz]	Time-slot (ms)	14MHz (dBm)	
Channel				42160	42560	42960			
5	QPSK	1	0	-18.01	-18.13	-18.00			
5	QPSK	1	1	-17.99	-18.11	-18.02	10.3	0	
5	QPSK	1	99	-17.81	-18.02	-18.00			
5	QPSK	50	0	-17.93	-18.00	-17.99			
5	QPSK	50	1	-17.91	-17.99	-17.99	10.3	0	
5	QPSK	50	50	-17.67	-17.87	-17.93			
5	QPSK	50	99	-17.63	-17.83	-17.93			
5	HQAM	1	0	-17.83	-18.01	-17.99			
5	HQAM	1	1	-17.81	-17.99	-17.99	10.3	0	
5	HQAM	1	99	-17.71	-17.91	-17.94			
5	HQAM	50	0	-17.77	-17.71	-17.68			
5	HQAM	50	1	-17.81	-17.83	-17.80	10.3	0	
5	HQAM	50	50	-17.50	-17.64	-18.01			
5	HQAM	50	99	-17.46	-17.61	-18.01			
5	HQAM	1	0	-17.90	-17.91	-17.91			
5	HQAM	1	1	-17.87	-17.84	-17.85	10.3	0	
5	HQAM	1	99	-17.77	-17.80	-17.81			
5	HQAM	50	0	-17.68	-17.87	-17.85			
5	HQAM	50	1	-17.72	-17.88	-17.88	10.3	0	
5	HQAM	50	50	-17.79	-17.86	-18.02			
5	HQAM	50	99	-17.70	-17.84	-18.02			
5	HQAM	1	0	-17.90	-17.90	-17.90			
5	HQAM	1	1	-17.88	-17.88	-17.88	10.3	0	
5	HQAM	1	99	-17.78	-17.84	-17.84			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30	-18.20	10.3	1.3	
5	HQAM	1	99	-18.13	-18.20	-18.20			
5	HQAM	50	0	-17.63	-17.68	-17.78			1.3
5	HQAM	50	1	-17.67	-17.65	-17.78	10.3	1.3	
5	HQAM	50	50	-17.37	-17.54	-18.00			
5	HQAM	50	99	-17.33	-17.50	-18.00			
5	HQAM	1	0	-18.27	-18.33	-18.20			
5	HQAM	1	1	-18.21	-18.30</				

Band 43 (3.7GHz Band) Ant2 DS16 Simultaneous Power									
RF (MHz)	Modulation	RIS Size	RF Ch/Off	Power (W) (RF Ch/Off)	Power (W) (RF Ch/Off)	Power (W) (RF Ch/Off)	Time-on-air (min)	LA95 (dB)	
Channel				43566	43660	43630			
265	QPSK	1	0	18.28	19.20	18.21	15.0	O	
265	Frequency (MHz)	1	0	18.28	19.20	18.21			
265	QPSK	1	56	18.15	19.10	18.09			
265	QPSK	0	0	18.26	19.20	18.21	15.0	O	
265	QPSK	0	24	18.21	19.15	18.21			
265	QPSK	0	56	18.16	19.12	18.14			
265	QPSK	0	128	18.01	19.05	18.00	15.0	O	
265	TDMA	1	0	18.12	19.13	18.12			
265	TDMA	1	56	18.06	19.07	18.06			
265	TDMA	1	128	18.00	19.01	18.00	15.0	O	
265	TDMA	1	56	18.06	19.07	18.06			
265	TDMA	1	128	18.00	19.01	18.00			
265	QPSK	1	49	18.11	19.17	18.09	15.0	O	
265	QPSK	1	56	18.06	19.07	18.06			
265	QPSK	1	128	18.00	19.01	18.00			
265	QPSK	1	256	18.00	19.01	18.00	15.0	O	
265	QPSK	1	512	18.00	19.01	18.00			
265	QPSK	1	1024	18.00	19.01	18.00			
265	QPSK	1	2048	18.00	19.01	18.00	15.0	O	
265	QPSK	1	4096	18.00	19.01	18.00			
265	QPSK	1	8192	18.00	19.01	18.00			
265	QPSK	1	16384	18.00	19.01	18.00	15.0	O	
265	QPSK	1	32768	18.00	19.01	18.00			
265	QPSK	1	65536	18.00	19.01	18.00			
265	QPSK	1	131072	18.00	19.01	18.00	15.0	O	
265	QPSK	1	262144	18.00	19.01	18.00			
265	QPSK	1	524288	18.00	19.01	18.00			
265	QPSK	1	1048576	18.00	19.01	18.00	15.0	O	
265	QPSK	1	2097152	18.00	19.01	18.00			
265	QPSK	1	4194304	18.00	19.01	18.00			
265	QPSK	1	8388608	18.00	19.01	18.00	15.0	O	
265	QPSK	1	16777216	18.00	19.01	18.00			
265	QPSK	1	33554432	18.00	19.01	18.00			
265	QPSK	1	67108864	18.00	19.01	18.00	15.0	O	
265	QPSK	1	134217728	18.00	19.01	18.00			
265	QPSK	1	268435456	18.00	19.01	18.00			
265	QPSK	1	536870912	18.00	19.01	18.00	15.0	O	
265	QPSK	1	1073741824	18.00	19.01	18.00			
265	QPSK	1	2147483648	18.00	19.01	18.00			
265	QPSK	1	4294967296	18.00	19.01	18.00	15.0	O	
265	QPSK	1	8589934592	18.00	19.01	18.00			
265	QPSK	1	17179869184	18.00	19.01	18.00			
265	QPSK	1	34359738368	18.00	19.01	18.00	15.0	O	
265	QPSK	1	68719476736	18.00	19.01	18.00			
265	QPSK	1	137438953472	18.00	19.01	18.00			
265	QPSK	1	274877906944	18.00	19.01	18.00	15.0	O	
265	QPSK	1	549755813888	18.00	19.01	18.00			
265	QPSK	1	1099511627776	18.00	19.01	18.00			
265	QPSK	1	2199023255552	18.00	19.01	18.00	15.0	O	
265	QPSK	1	4398046511104	18.00	19.01	18.00			
265	QPSK	1	8796093022208	18.00	19.01	18.00			
265	QPSK	1	17592186044416	18.00	19.01	18.00	15.0	O	
265	QPSK	1	35184372088832	18.00	19.01	18.00			
265	QPSK	1	70368744177664	18.00	19.01	18.00			
265	QPSK	1	140737488355328	18.00	19.01	18.00	15.0	O	
265	QPSK	1	281474976710656	18.00	19.01	18.00			
265	QPSK	1	562949953421312	18.00	19.01	18.00			
265	QPSK	1	1125899906842624	18.00	19.01	18.00	15.0	O	
265	QPSK	1	2251799813685248	18.00	19.01	18.00			
265	QPSK	1	4503599627370496	18.00	19.01	18.00			
265	QPSK	1	9007199254740992	18.00	19.01	18.00	15.0	O	
265	QPSK	1	18014398509481984	18.00	19.01	18.00			
265	QPSK	1	36028797018963968	18.00	19.01	18.00			
265	QPSK	1	72057594037927936	18.00	19.01	18.00	15.0	O	
265	QPSK	1	144115188075855872	18.00	19.01	18.00			
265	QPSK	1	288230376151711744	18.00	19.01	18.00			
265	QPSK	1	576460752303423488	18.00	19.01	18.00	15.0	O	
265	QPSK	1	1152921504606846976	18.00	19.01	18.00			
265	QPSK	1	2305843009213693952	18.00	19.01	18.00			
265	QPSK	1	4611686018427387904	18.00	19.01	18.00	15.0	O	
265	QPSK	1	9223372036854775808	18.00	19.01	18.00			
265	QPSK	1	18446744073709551616	18.00	19.01	18.00			
265	QPSK	1	36893488147419103232	18.00	19.01	18.00	15.0	O	
265	QPSK	1	73786976294838206464	18.00	19.01	18.00			
265	QPSK	1	147573952589676412928	18.00	19.01	18.00			
265	QPSK	1	295147905179352825856	18.00	19.01	18.00	15.0	O	
265	QPSK	1	590295810358705651712	18.00	19.01	18.00			
265	QPSK	1	1180591620717411303424	18.00	19.01	18.00			
265	QPSK	1	2361183241434822606848	18.00	19.01	18.00	15.0	O	
265	QPSK	1	4722366482869645213696	18.00	19.01	18.00			
265	QPSK	1	9444732965739290427392	18.00	19.01	18.00			
265	QPSK	1	18889465931478580854784	18.00	19.01	18.00	15.0	O	
265	QPSK	1	37778931862957161709568	18.00	19.01	18.00			
265	QPSK	1	75557863725914323419136	18.00	19.01	18.00			
265	QPSK	1	151115727451828646838272	18.00	19.01	18.00	15.0	O	
265	QPSK	1	302231454903657293676544	18.00	19.01	18.00			
265	QPSK	1	604462909807314587353088	18.00	19.01	18.00			
265	QPSK	1	1208925819614629174706176	18.00	19.01	18.00	15.0	O	
265	QPSK	1	2417851639229258349412352	18.00	19.01	18.00			
265	QPSK	1	4835703278458516698824704	18.00	19.01	18.00			
265	QPSK	1	9671406556917033397649408	18.00	19.01	18.00	15.0	O	
265	QPSK	1	19342813113834066795298816	18.00	19.01	18.00			
265	QPSK	1	38685626227668133590597632	18.00	19.01	18.00			
265	QPSK	1	77371252455336267181195264	18.00	19.01	18.00	15.0	O	
265	QPSK	1	154742504910672534362390528	18.00	19.01	18.00			
265	QPSK	1	309485009821345068724781056	18.00	19.01	18.00			
265	QPSK	1	618970019642690137449562112	18.00	19.01	18.00	15.0	O	
265	QPSK	1	1237940039285380274899124224	18.00	19.01	18.00			
265	QPSK	1	2475880078570760549798248448	18.00	19.01	18.00			
265	QPSK	1	4951760157141521099596496896	18.00	19.01	18.00	15.0	O	
265	QPSK	1	9903520314283042199192993792	18.00	19.01	18.00			
265	QPSK	1	19807040628566084398385987584	18.00	19.01	18.00			
265	QPSK	1	39614081257132168796771975168	18.00	19.01	18.00	15.0	O	
265	QPSK	1	79228162514264337593543950336	18.00	19.01	18.00			
265	QPSK	1	158456325028528675187087900672	18.00	19.01	18.00			
265	QPSK	1	316912650057057350374175801344	18.00	19.01	18.00	15.0	O	
265	QPSK	1	633825300114114700748351602688	18.00	19.01	18.00			
265	QPSK	1	1267650600228229401496703205376	18.00	19.01	18.00			
265	QPSK	1	2535301200456458802993406410752	18.00	19.01	18.00	15.0	O	
265	QPSK	1	5070602400912917605986812821504	18.00	19.01	18.00			
265	QPSK	1	10141204801825835211973625643008	18.00	19.01	18.00			
265	QPSK	1	20282409603651670423947251286016	18.00	19.01	18.00	15.0	O	
265	QPSK	1	40564819207303340847894502572032	18.00	19.01	18.00			
265	QPSK	1	81129638414606681695789005144064	18.00	19.01	18.00			
265	QPSK	1	162259276829213363391578010288128	18.00	19.01	18.00	15.0	O	
265	QPSK	1	324518553658426726783156020576256	18.00	19.01	18.00			
265	QPSK	1	649037107316853453566312041152512	18.00	19.01	18.00			
265	QPSK	1	1298074214633706907132624082305024	18.00	19.01	18.00	15.0	O	
265	QPSK	1	2596148429267413814265248164610048	18.00	19.01	18.00			
265	QPSK	1	5192296858534827628530496329220096	18.00	19.01	18.00			
265	QPSK	1	10384593717069655257060992658440192	18.00	19.01	18.00	15.0	O	
265	QPSK	1	20769187434139310514121985316880384	18.00	19.01	18.00			
265	QPSK	1	41538374868278621028243970633760768	18.00	19.01	18.00			
265	QPSK	1	83076749736557242056487941267521536	18.00	19.01	18.00	15.0	O	
265	QPSK	1	166153499473114484112975882535043072	18.00	19.01	18.00			
265	QPSK	1	332306998946228968225951765070086144	18.00	19.01	18.00			
265	QPSK	1	664613997892457936451903530140172288	18.00	19.01	18.00	15.0	O	
265	QPSK	1	1329227995784915872903807060280344576	18.00	19.01	18.00			
265	QPSK	1	2658455991569831745807614120560689152	18.00	19.01	18.00			
265	QPSK	1	5316911983139663491615228241121378304	18.00	19.01	18.00	15.0	O	
265	QPSK	1	10633823966279326983230456482242756608	18.00	19.01	18.00			
265	QPSK	1	21267647932558653966460912964485513216	18.00	19.01	18.00			
265	QPSK	1	42535295865117307932921825928971026432	18.00	19.01	18.00	15.0	O	
265	QPSK	1	85070591730234615865843651857942052864	18.00	19.01	18.00			
265	QPSK	1	170141183460469231731687303715884105728	18.00	19.01	18.00			
265	QPSK	1	340282366920938463463374607431768211456	18.00	19.01	18.00	15.0	O	
265	QPSK	1	68056473384187692692						

Band 48_FCC Ant2 DS16 Simultaneous Power										
RF (MHz)	Modulation	RIS Size	RIS Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Power (mW)	
Channel										
Frequency (MHz)										
20	QPSK	7	0	18.29	18.29	18.29	18.29	18.29	18.29	
20	QPSK	7	0	18.12	18.12	18.12	18.12	18.12	18.12	18.0
20	QPSK	56	0	18.11	18.16	18.15	18.12	18.12	18.12	
20	QPSK	56	0	18.17	18.22	18.24	18.20	18.20	18.20	
20	QPSK	56	0	18.15	18.15	18.15	18.15	18.15	18.15	18.0
20	QPSK	56	0	18.23	18.26	18.26	18.24	18.24	18.24	
20	QPSK	56	0	18.15	18.11	18.10	18.12	18.12	18.12	
20	HQAM	1	0	18.08	18.18	18.18	18.18	18.18	18.18	
20	HQAM	56	0	18.12	18.12	18.12	18.12	18.12	18.12	18.0
20	HQAM	56	0	18.07	17.92	17.95	18.00	18.00	18.00	
20	HQAM	56	0	18.15	18.15	18.15	18.15	18.15	18.15	18.0
20	HQAM	56	0	18.13	18.03	18.02	18.05	18.05	18.05	
20	HQAM	100	0	18.13	18.18	18.09	18.14	18.14	18.14	
20	HQAM	1	0	18.17	18.15	18.15	18.07	18.07	18.07	18.0
20	HQAM	1	0	17.91	17.93	17.93	17.93	17.93	17.93	
20	HQAM	56	0	18.07	18.17	18.20	18.12	18.12	18.12	
20	HQAM	56	0	18.13	18.12	18.12	18.12	18.12	18.12	18.0
20	HQAM	56	0	18.03	18.07	18.07	18.05	18.05	18.05	
20	HQAM	100	0	18.05	18.11	18.05	18.05	18.05	18.05	
20	HQAM	100	0	18.05	18.05	18.05	18.05	18.05	18.05	18.0
20	HQAM	56	0	18.05	18.13	18.06	18.05	18.05	18.05	
20	HQAM	56	0	18.07	17.91	17.91	18.00	18.00	18.00	
20	HQAM	56	0	18.02	18.14	18.17	18.10	18.10	18.10	
20	HQAM	56	0	18.05	18.05	18.05	18.05	18.05	18.05	18.0
20	HQAM	56	0	17.99	18.04	17.99	18.03	18.03	18.03	
20	HQAM	100	0	18.06	18.07	18.07	18.05	18.05	18.05	
Time-use unit										
MPC										
Frequency (MHz)										
15	QPSK	7	0	18.27	18.28	18.28	18.28	18.28	18.28	
15	QPSK	12	0	18.14	18.13	18.08	18.16	18.16	18.16	18.0
15	QPSK	12	0	18.15	18.15	18.15	18.15	18.15	18.15	18.0
15	QPSK	56	0	18.25	18.19	18.22	18.17	18.17	18.17	
15	QPSK	56	0	18.12	18.06	18.15	18.14	18.14	18.14	
15	QPSK	56	0	18.07	18.03	18.03	18.07	18.07	18.07	
15	QPSK	78	0	18.10	18.09	18.17	18.07	18.07	18.07	
15	QPSK	78	0	18.05	18.15	18.15	18.05	18.05	18.05	18.0
15	HQAM	1	0	18.07	18.02	18.02	18.08	18.08	18.08	
15	HQAM	56	0	18.12	18.12	18.12	18.12	18.12	18.12	18.0
15	HQAM	56	0	18.07	17.92	17.95	18.00	18.00	18.00	
15	HQAM	56	0	18.15	18.15	18.15	18.15	18.15	18.15	18.0
15	HQAM	56	0	18.13	18.03	18.02	18.05	18.05	18.05	
15	HQAM	100	0	18.13	18.18	18.09	18.14	18.14	18.14	
15	HQAM	1	0	18.17	18.15	18.15	18.07	18.07	18.07	18.0
15	HQAM	1	0	17.91	17.93	17.93	17.93	17.93	17.93	
15	HQAM	56	0	18.07	18.17	18.20	18.12	18.12	18.12	
15	HQAM	56	0	18.13	18.12	18.12	18.12	18.12	18.12	18.0
15	HQAM	56	0	18.03	18.07	18.07	18.05	18.05	18.05	
15	HQAM	100	0	18.05	18.11	18.05	18.05	18.05	18.05	
15	HQAM	100	0	18.05	18.05	18.05	18.05	18.05	18.05	18.0
15	HQAM	56	0	18.05	18.13	18.06	18.05	18.05	18.05	
15	HQAM	56	0	18.07	17.91	17.91	18.00	18.00	18.00	
15	HQAM	56	0	18.02	18.14	18.17	18.10	18.10	18.10	
15	HQAM	56	0	18.05	18.05	18.05	18.05	18.05	18.05	18.0
15	HQAM	56	0	17.99	18.04	17.99	18.03	18.03	18.03	
15	HQAM	100	0	18.06	18.07	18.07	18.05	18.05	18.05	
Time-use unit										
MPC										
Frequency (MHz)										
10	QPSK	7	0	18.25	18.26	18.26	18.26	18.26	18.26	
10	QPSK	12	0	18.12	18.15	18.13	18.20	18.20	18.20	18.0
10	QPSK	12	0	18.13	18.13	18.13	18.13	18.13	18.13	18.0
10	QPSK	56	0	18.22	18.16	18.20	18.08	18.08	18.08	
10	QPSK	56	0	18.09	18.17	18.22	18.16	18.16	18.16	
10	QPSK	56	0	18.11	18.06	18.06	18.11	18.11	18.11	18.0
10	QPSK	26	0	18.29	18.25	18.21	18.21	18.21	18.21	
10	QPSK	26	0	18.11	18.03	18.03	18.11	18.11	18.11	18.0
10	HQAM	1	0	18.04	18.16	18.16	18.11	18.11	18.11	
10	HQAM	56	0	18.12	18.12	18.12	18.12	18.12	18.12	18.0
10	HQAM	56	0	17.93	17.79	17.98	17.98	17.98	17.98	
10	HQAM	56	0	18.01	18.21	18.14	18.13	18.13	18.13	
10	HQAM	56	0	18.10	18.10	18.10	18.10	18.10	18.10	18.0
10	HQAM	26	0	18.21	18.21	17.88	18.21	18.21	18.21	
10	HQAM	26	0	18.11	18.11	18.09	18.09	18.09	18.09	
10	HQAM	56	0	18.12	18.17	18.03	18.09	18.09	18.09	
10	HQAM	56	0	18.16	18.11	18.01	18.03	18.03	18.03	18.0
10	HQAM	56	0	18.08	18.15	18.15	18.08	18.08	18.08	
10	HQAM	26	0	18.01	18.14	18.15	18.09	18.09	18.09	
10	HQAM	26	0	18.12	18.10	18.10	18.10	18.10	18.10	18.0
10	HQAM	26	0	18.21	18.22	17.99	18.21	18.21	18.21	
10	HQAM	56	0	18.11	18.06	18.06	18.11	18.11	18.11	18.0
10	HQAM	56	0	18.02	18.12	18.12	18.02	18.02	18.02	18.0
10	HQAM	56	0	18.15	18.15	18.15	18.15	18.15	18.15	18.0
10	HQAM	56	0	18.11	18.13	18.07	18.23	18.23	18.23	
10	HQAM	56	0	17.92	17.92	17.92	17.92	17.92	17.92	
10	HQAM	26	0	18.03	18.14	18.18	18.09	18.09	18.09	
10	HQAM	26	0	18.12	18.03	18.03	18.12	18.12	18.12	18.0
10	HQAM	26	0	18.02	18.22	17.97	18.02	18.02	18.02	
10	HQAM	56	0	18.13	18.06	18.06	18.13	18.13	18.13	18.0
10	HQAM	56	0	18.02	18.12	18.12	18.02	18.02	18.02	18.0
Time-use unit										
MPC										
Frequency (MHz)										
5	QPSK	7	0	18.25	18.27	18.26	18.26	18.26	18.26	
5	QPSK	12	0	18.15	18.13	18.13	18.14	18.14	18.14	18.0
5	QPSK	12	0	18.16	18.16	18.16	18.16	18.16	18.16	18.0
5	QPSK	56	0	18.23	18.19	18.22	18.17	18.17	18.17	
5	QPSK	12	7	18.11	18.05	18.15	18.13	18.13	18.13	
5	QPSK	12	7	18.09	18.09	18.09	18.09	18.09	18.09	18.0
5	QPSK	56	0	18.12	18.10	18.10	18.10	18.10	18.10	
5	QPSK	56	0	18.21	18.16	18.16	18.08	18.08	18.08	
5	HQAM	1	12	18.05	18.05	18.11	18.06	18.06	18.06	18.0
5	HQAM	1	26	17.94	17.85	17.96	17.94	17.94	17.94	
5	HQAM	1	56	18.11	18.06	18.06	18.11	18.11	18.11	18.0
5	HQAM	12	7	18.09	18.09	18.09	18.14	18.14	18.14	18.0
5	HQAM	12	7	18.07	18.07	18.07	18.07	18.07	18.07	18.0
5	HQAM	56	0	18.08	18.08	18.08	18.08	18.08	18.08	18.0
5	HQAM	56	0	18.12	18.11	18.09	18.09	18.09	18.09	
5	HQAM	1	26	17.86	17.89	17.90	17.87	17.87	17.87	
5	HQAM	1	56	18.13	18.08	18.08	18.13	18.13	18.13	18.0
5	HQAM	12	7	18.11	18.08	18.10	18.09	18.09	18.09	
5	HQAM	12	7	18.03	18.03	18.03	18.03	18.03	18.03	18.0
5	HQAM	26	0	18.04	18.27	18.02	18.06	18.06	18.06	
5	HQAM	26	0	18.12	18.15	18.05	18.05	18.05	18.05	
5	HQAM	26	0	17.95	17.95	18.01	17.95	17.95	17.95	
5	HQAM	56	0	18.11	18.13	18.07	18.09	18.09	18.09	
5	HQAM	56	0	18.13	18.13	18.13	18.13	18.13	18.13	18.0
5	HQAM	12	7	18.11	18.07	18.09	18.09	18.09	18.09	
5	HQAM	12	7	18.04	18.04	18.04	18.04	18.04	18.04	18.0
5	HQAM	12	7	18.24	18.09	18.09	18.04	18.04	18.04	

Uplink CA Power

Full Power & DSI2 & DSI6									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	23.24	23.36	24.00
21100	21298	QPSK	1	99	1	0	23.32	23.47	24.00
21350	21152	QPSK	1	0	1	99	23.36	23.41	24.00

DSI3									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	18.31	18.39	19.70
21100	21298	QPSK	1	99	1	0	18.65	18.71	19.70
21350	21152	QPSK	1	0	1	99	18.63	18.67	19.70

DSI3 Simultaneous									
CA_7C Ant 0									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	13.87	13.99	15.20
21100	21298	QPSK	1	99	1	0	14.11	14.19	15.20
21350	21152	QPSK	1	0	1	99	14.06	14.13	15.20

Full Power									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	22.25	22.39	24.00
21100	21298	QPSK	1	99	1	0	22.39	22.53	24.00
21350	21152	QPSK	1	0	1	99	22.16	22.3	24.00

DSI2									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	17.31	17.39	18.40
21100	21298	QPSK	1	99	1	0	17.35	17.41	18.40
21350	21152	QPSK	1	0	1	99	17.33	17.36	18.40

DSI3									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	18.21	18.33	19.70
21100	21298	QPSK	1	99	1	0	18.61	18.69	19.70
21350	21152	QPSK	1	0	1	99	18.61	18.63	19.70

DSI3 Simultaneous									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	15.21	15.3	16.70
21100	21298	QPSK	1	99	1	0	15.33	15.45	16.70
21350	21152	QPSK	1	0	1	99	15.31	15.39	16.70

DSI6									
CA_7C Ant 1									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Intra Band UL CA Measured Power (dBm)	Non CA Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	19.54	19.65	20.70
21100	21298	QPSK	1	99	1	0	19.61	19.75	20.70
21350	21152	QPSK	1	0	1	99	19.63	19.65	20.70



Downlink CA Power

2CA DL															
CA List	PCC							SCC				Power			
	LTE		BW	UL	Mod.	ULF	RB	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq (MHz)		Channel		RB	Offset	Band	(MHz)	Freq (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-17A	Band 2	Ant0	10M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	22.61	22.71	
	Band 2	Ant1	10M	1880	18900	QPSK	1	0	Band 17	10M	740	5790	21.73	22.78	
	Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.85	22.88	
	Band 17	Ant1	10M	710	23790	QPSK	1	0	Band 2	10M	1960	900	22.43	22.59	
CA_4A-17A	Band 4	Ant0	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	23.03	23.09	
	Band 4	Ant1	10M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	21.93	21.97	
	Band 17	Ant0	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.79	22.88	
	Band 17	Ant1	10M	710	23790	QPSK	1	0	Band 4	10M	2132.5	2175	22.37	22.59	
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.79	22.86	
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.19	22.33	
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	23.55	23.64	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	22.45	22.98	
CA_7B	Band 7	Ant0	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	23.33	23.44	
	Band 7	Ant1	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193	22.57	22.67	
CA_7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	23.39	23.46	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.68	22.71	
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	22.55	22.61	
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0	Band 7	20M	2655	3100	22.45	22.40	
CA_7A-42A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	23.36	23.46	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 42	20M	3575	43340	22.63	22.71	
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 7	20M	2655	3100	21.98	22.04	
CA_7A-42A (Part27Q)	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	23.34	23.46	
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	22.68	22.71	
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 7	20M	2655	3100	21.97	22.03	
CA_12A-25A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 25	20M	1960	8340	22.86	22.93	
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 25	20M	1960	8340	22.59	22.67	
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	Band 12	10M	737.5	5095	22.76	22.89	
	Band 25	Ant1	20M	1880	26340	QPSK	1	0	Band 12	10M	737.5	5095	23.21	23.28	
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.59	22.61	
	Band 26	Ant1	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.16	22.40	
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	23.56	23.64	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	22.87	22.98	
CA_38C	Band 38	Ant0	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	23.34	23.49	
	Band 38	Ant1	20M	2585.1	37901	QPSK	1	0	Band 38	20M	2604.9	38099	22.67	22.89	
CA_41A-41A	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	23.52	23.64	
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.86	22.98	
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	42340	23.54	23.64	
CA_41A-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	22.84	22.98	
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 41	20M	2593	40620	21.97	22.04	
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	23.55	23.64	
CA_41A-42A (Part27Q)	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	22.83	22.98	
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 41	20M	2593	40620	21.98	22.03	
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 42	5M	3597.5	43565	21.86	22.04	
CA_42A-42A (Part27Q)	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 42	5M	3547.5	43065	21.96	22.03	
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	22.99	23.09	
	Band 66	Ant1	15M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	21.83	22.00	
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	23.03	23.15	
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	21.93	22.05	

3CA DL

3CA List	PCC										SCC1				SCC2				Power	
	LTE		BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA		
	Band	Ant	(MHz)	Freq	Channel		RB	RB	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx Power	Tx Power		
				(MHz)				Offset			(MHz)						(dBm)	(dBm)		
CA_2A_4A_5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.67	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	21.72	21.82		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.98	23.12		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.12	22.02		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.70	22.86		
CA_2A_4A_7A	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.53	22.33		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.71	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	21.69	21.82		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.97	23.12		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.05	22.02		
CA_2A_4A_12A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	23.36	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.56	22.71		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	22.73	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.70	21.82		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	22.99	23.12		
CA_2A_5A_7A	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	22.05	22.02		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.80	22.93		
	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.59	22.67		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	22.69	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	21.76	21.82		
CA_2A_5A_66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.74	22.86		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 7	20M	2655	3100	22.26	22.33		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.28	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	22.59	22.71		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.65	22.82		
CA_2A_7C	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	21.67	21.82		
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.76	22.86		
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.13	22.33		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	23.00	23.15		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 5	10M	881.5	2525	21.97	22.05		
CA_2A_7A_7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.72	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	21.69	21.82		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	23.33	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 2	20M	1960	900	22.60	22.71		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 2	5M	2687.5	3425	22.76	22.82		
CA_2A-12A-66A	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	23.37	23.46		
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 2	20M	1960	900	22.60	22.71		
	Band 2	Ant0	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	22.64	22.82		
	Band 2	Ant1	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	21.76	21.82		
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.75	22.93		
CA_4A-7C	Band 12	Ant1	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	22.56	22.67		
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	23.07	23.15		
	Band 66	Ant1	20M	1745	132322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	10M	737.5	5095	21.94	22.05		
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.97	23.12		
	Band 4	Ant1	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.17	22.02		
CA_26A-41C	Band 7	Ant0	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	23.42	23.46		
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 4	20M	2132.5	2175	22.60	22.71		
	Band 26	Ant0	15M	831.5	25865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.50	22.61		
	Band 26	Ant1	15M	831.5	25865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	22.34	22.40		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	23.60	23.64		
CA_41C-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 26	15M	876.5	8865	22.81	22.98		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	23.48	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	22.84	22.98		
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.96	22.04		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	42340	23.46	23.64		
CA_41A-42C (Pair127Q)	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	42340	22.85	22.98		
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.97	22.03		
	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	23.60	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.91	22.98		
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	Band 41	20M	2593	40620	21.98	22.04		
CA_41A-42C (Pair127Q)	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	23.56	23.64		
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	22.90	22.98		
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 42	20M	3519.8	42788	Band 41	20M	2593	40620	21.89	22.03		
	Band 42	Ant2	20M	3560	43190	QPSK	1	0	Band 42	20M	3579.8	43388	Band 42	20M	3599.6	43586	21.99	22.00		
	CA_42D(Pair27Q)	Band 42	Ant2	20M	3460	42190	QPSK	1	0	Band 42	20M	3479.8	42388	Band 42	20M	3499.6	42586	21.91	21.93	

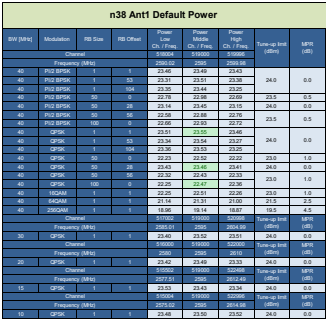
4CA DL

Configure	PCG								SCC1				SCC2				SCC3				Power	
	LTE		BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel		RB	RB Offset	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Band	(MHz)	Freq	Channel	Tx. Power	Tx. Power
				(MHz)							(MHz)				(MHz)				(dBm)		(dBm)	
CA_5A_7A_66A_66A	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.80	22.86
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.17	22.33
	Band 7	0	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.32	23.46
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.60	22.71
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2674.8	3298	22.98	23.15
CA_7C_66A_66A	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2674.8	3298	21.93	22.05
	Band 7	0	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.40	23.46
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.64	22.71
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.03	23.15
	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.00	22.05
CA_41C_42C	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	23.51	23.64
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3575	43340	Band 42	20M	3594.8	43538	22.81	22.98
	Band 42	Ant2	20M	3575	43340	QPSK	1	0	Band 42	20M	3594.8	43538	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.89	22.04
CA_41C_42C (Part27Q)	Band 41	Ant0	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	23.56	23.64
	Band 41	Ant1	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 42	20M	3500	42590	Band 42	20M	3519.8	42788	22.92	22.98
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	Band 42	20M	3519.8	42788	Band 41	20M	2593	40620	Band 41	20M	2612.8	40818	21.97	22.03



5CA DL

Configure	PCC								SCC1				SCC2				SCC3				SCC4				Power	
	LTE		BW	UL	UL		UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL		
	Band	Ant	(MHz)	Freq (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Tx. Power (dBm)	Without CA (dBm)
CA_5A-7C-66A-66A	Band 5	0	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	66896	Band 66	9M	2197.5	67311	22.71	22.86
	Band 5	1	10M	896.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	Band 66	20M	2155	66896	Band 66	9M	2197.5	67311	22.17	22.33
	Band 7	0	20M	2533	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66896	Band 66	9M	2197.5	67311	23.33	23.46
	Band 7	1	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66896	Band 66	9M	2197.5	67311	22.98	22.71
	Band 66	0	20M	1745	132322	QPSK	1	0	Band 66	9M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.00	23.15
	Band 66	1	20M	1745	132322	QPSK	1	0	Band 66	9M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	21.97	22.05



Par27Q n77 Ant Default Power									
RF Ch (MHz)	Modulation	Channel	RF Ch (MHz)	Power Line Ch (dBm)	Power Line Ch (dBm) Min	Power Line Ch (dBm) Max	Power Line Ch (dBm) Min	Power Line Ch (dBm) Max	Power Line Ch (dBm) Min
100	PBCH	B77-1	1	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	PBCH	B77-2	1	211	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	PBCH	B77-3	1	411	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	PBCH	B77-4	1	611	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	130	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	271	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	1010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	1210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	1410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	1610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	1810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	2010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	2210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	2410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	2610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	2810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	3010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	3210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	3410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	3610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	3810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	4010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	4210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	4410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	4610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	4810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	5010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	5210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	5410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	5610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	5810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	6010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	6210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	6410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	6610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	6810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	7010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	7210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	7410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	7610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	7810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	8010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	8210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	8410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	8610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	8810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	9010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	9210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	9410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	9610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	9810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	10010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	10210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	10410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	10610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	10810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	11010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	11210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	11410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	11610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	11810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	12010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	12210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	12410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	12610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	12810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	13010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	13210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	13410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	13610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	13810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	14010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	14210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	14410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	14610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	14810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	15010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	15210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	15410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	15610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	15810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	16010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	16210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	16410	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	16610	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	16810	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	17010	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH	1	17210	1	23.93				
100	Frequency (MHz)				23.93			23.93	0.0
100	CPICH								

[illegible]

Part27Q n78 Ant3 Default Power									
RF (MHz)	Modulation	RF Span	RF Offset	Power Low Ch. (Fmax)	Power Mid Ch. (Fmax)	Power High Ch. (Fmax)	Power Up Time (sec)	Average Input Power (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	22.40			24.0	0.0	
180	P12 BPSK	1	1	22.41					
180	P12 BPSK	1	271	22.38			24.0	0.0	
180	P12 BPSK	1	0	22.35					
180	P12 BPSK	130	0	22.47			24.0	0.0	
180	P12 BPSK	130	130	22.45					
180	P12 BPSK	270	0	22.42			24.0	0.0	
180	QPSK	1	1	22.40					
180	QPSK	1	1	22.39			24.0	0.0	
180	QPSK	1	271	22.38					
180	QPSK	1	0	22.35			24.0	0.0	
180	QPSK	130	0	22.47			24.0	0.0	
180	QPSK	130	130	22.45					
180	QPSK	270	0	22.42			24.0	0.0	
180	MSK4M	1	1	22.40			24.0	0.0	
180	MSK4M	1	1	22.41					
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.40	22.39	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.38	22.40	22.42	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.39	22.38	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.42	22.38	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.42	22.41	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
100	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
110	QPSK	1	1	22.47	22.45	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
120	QPSK	1	1	22.47	22.45	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
130	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
140	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
150	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
160	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
170	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
180	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
190	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
200	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
210	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
220	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
230	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
240	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
250	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
260	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
270	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
280	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
290	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
300	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
310	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
320	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
330	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
340	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
350	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
360	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
370	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
380	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
390	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
400	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
410	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
420	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
430	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
440	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
450	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
460	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
470	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
480	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
490	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
500	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
510	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
520	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
530	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
540	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
550	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
560	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
570	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
580	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
590	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
600	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
610	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
620	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
630	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
640	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
650	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
660	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
670	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
680	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
690	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
700	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
710	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
720	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
730	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
740	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
750	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
760	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
770	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
780	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
790	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
800	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
810	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
820	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
830	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
840	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
850	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
860	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
870	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
880	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
890	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
900	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
910	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
920	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
930	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
940	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
950	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
960	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
970	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
980	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
990	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
1000	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
1010	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
1020	QPSK	1	1	22.47	22.45	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
1030	QPSK	1							



Part27Q n78 Ant2 Default Power									
RF (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Power Type Ch. 4 (Fmax)	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
160	P12 BPSK	1	1	22.82				24.0	0.0
160	P12 BPSK	1	127	22.81					
160	P12 BPSK	1	271	22.80					
160	P12 BPSK	156	0	22.83				24.0	0.0
160	P12 BPSK	156	60	22.87				24.0	0.0
160	P12 BPSK	270	0	22.87				24.0	0.0
160	QPSK	1	1	22.80					
160	QPSK	1	127	22.81				24.0	0.0
160	QPSK	1	271	22.80					
160	QPSK	156	0	22.83				24.0	0.0
160	QPSK	156	60	22.87				24.0	0.0
160	QPSK	270	0	22.87				24.0	0.0
160	MSK4M	1	1	22.84				24.0	0.0
160	MSK4M	1	1	22.80				24.0	0.0
160	MSK4M	1	1	22.80				24.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.80	22.82	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.82	22.84	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.84	22.86	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.79	22.80	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.79	22.80	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.80	22.82	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.82	22.84	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.84	22.86	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.86	22.88	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.87	22.89	22.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.89	22.91	22.87	24.0	0.0	

Part27O n78 Ant2 Default Power									
RF (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Power Type Ch. 4 (Fmax)	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
160	P12 BPSK	1	1	22.80				24.0	0.0
160	P12 BPSK	1	127	22.81					
160	P12 BPSK	1	271	22.80					
160	P12 BPSK	156	0	22.83				24.0	0.0
160	P12 BPSK	156	60	22.87				24.0	0.0
160	P12 BPSK	270	0	22.87				24.0	0.0
160	QPSK	1	1	22.80					
160	QPSK	1	127	22.81				24.0	0.0
160	QPSK	1	271	22.80					
160	QPSK	156	0	22.83				24.0	0.0
160	QPSK	156	60	22.87				24.0	0.0
160	QPSK	270	0	22.87				24.0	0.0
160	MSK4M	1	1	22.84				24.0	0.0
160	MSK4M	1	1	22.80				24.0	0.0
160	MSK4M	1	1	22.80				24.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.90	22.04	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.92	22.06	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.74	21.76	21.84	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.81	21.79	21.87	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.83	21.81	21.89	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.85	21.83	21.91	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.87	21.85	21.93	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.89	21.87	21.95	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.91	21.89	21.97	24.0	0.0	

Part27Q n78 PC2 Ant2 Default Power									
RF (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Power Type Ch. 4 (Fmax)	Turn-up time (min)	MPR (dB)
Channel									
Frequency (MHz)									
160	P12 BPSK	1	1	25.53				27.0	0.0
160	P12 BPSK	1	127	25.52					
160	P12 BPSK	1	271	25.57				27.0	0.0
160	P12 BPSK	156	0	25.55				27.0	0.0
160	P12 BPSK	156	60	25.62				27.0	0.0
160	P12 BPSK	270	0	25.62				27.0	0.0
160	QPSK	1	1	25.50					
160	QPSK	1	127	25.50				27.0	0.0
160	QPSK	1	271	25.56					
160	QPSK	156	0	25.53				27.0	0.0
160	QPSK	156	60	25.61				27.0	0.0
160	QPSK	270	0	25.61				27.0	0.0
160	MSK4M	1	1	25.63				27.0	0.0
160	MSK4M	1	1	25.50				27.0	0.0
160	MSK4M	1	1	25.50				27.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.47	25.45	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.49	25.50	25.48	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.54	25.40	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.58	25.48	25.42	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.61	25.49	25.43	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.64	25.52	25.47	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.64	25.61	25.49	27.0	0.0	

Par270 n78 PC2 Ant2 Default Power									
RF (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Power Type Ch. 4 (Fmax)	Turnup time (min)	MPR (dB)
Channel									
Frequency (MHz)									
160	P12 BPSK	1	1	25.54					
160	P12 BPSK	1	1	25.52				27.0	6.0
160	P12 BPSK	1	271	25.57				27.0	6.0
160	P12 BPSK	1	272	25.59				27.0	6.0
160	P12 BPSK	128	68	25.52				27.0	5.0
160	P12 BPSK	128	69	25.53				27.0	5.0
160	P12 BPSK	128	67	25.51				25.5	5.0
160	P12 BPSK	128	66	25.50				25.5	5.0
160	QPSK	1	1	25.56					
160	QPSK	1	1	25.54				27.0	6.0
160	QPSK	1	271	25.53				27.0	6.0
160	QPSK	1	272	25.55				27.0	6.0
160	QPSK	128	68	25.52				27.0	5.0
160	QPSK	128	69	25.53				27.0	5.0
160	QPSK	128	67	25.51				25.5	5.0
160	QPSK	128	66	25.50				25.5	5.0
160	QPSK	1	1	25.50				25.0	6.0
160	QPSK	1	1	25.50				25.0	6.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.50	25.44	25.34	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.51	25.36	25.16	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.52	25.38	25.18	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.53	25.40	25.20	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.54	25.42	25.22	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.55	25.44	25.24	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.56	25.46	25.26	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.57	25.48	25.28	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.58	25.50	25.30	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.59	25.52	25.32	25.0	27.0	6.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.60	25.54	25.34	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.61	25.56	25.36	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.62	25.58	25.38	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.63	25.60	25.40	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.64	25.62	25.42	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.65	25.64	25.44	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.66	25.66	25.46	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.67	25.68	25.48	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.68	25.70	25.50	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.69	25.72	25.52	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.70	25.74	25.54	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.71	25.76	25.56	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.72	25.78	25.58	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.73	25.80	25.60	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.74	25.82	25.62	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.75	25.84	25.64	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.76	25.86	25.66	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.77	25.88	25.68	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.78	25.90	25.70	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.79	25.92	25.72	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.80	25.94	25.74	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.81	25.96	25.76	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.82	25.98	25.78	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.83	26.00	25.80	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.84	26.02	25.82	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.85	26.04	25.84	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.86	26.06	25.86	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.87	26.08	25.88	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.88	26.10	25.90	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.89	26.12	25.92	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.90	26.14	25.94	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.91	26.16	25.96	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.92	26.18	25.98	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.93	26.20	26.00	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.94	26.22	26.02	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.95	26.24	26.04	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.96	26.26	26.06	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.97	26.28	26.08	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.98	26.30	26.10	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	25.99	26.32	26.12	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.00	26.34	26.14	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.01	26.36	26.16	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.02	26.38	26.18	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.03	26.40	26.20	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.04	26.42	26.22	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.05	26.44	26.24	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.06	26.46	26.26	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.07	26.48	26.28	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.08	26.50	26.30	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.09	26.52	26.32	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.10	26.54	26.34	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.11	26.56	26.36	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.12	26.58	26.38	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.13	26.60	26.40	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.14	26.62	26.42	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.15	26.64	26.44	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.16	26.66	26.46	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.17	26.68	26.48	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.18	26.70	26.50	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.19	26.72	26.52	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.20	26.74	26.54	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.21	26.76	26.56	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.22	26.78	26.58	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.23	26.80	26.60	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.24	26.82	26.62	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.25	26.84	26.64	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.26	26.86	26.66	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.27	26.88	26.68	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.28	26.90	26.70	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.29	26.92	26.72	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.30	26.94	26.74	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.31	26.96	26.76	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.32	26.98	26.78	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.33	27.00	26.80	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.34	27.02	26.82	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.35	27.04	26.84	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.36	27.06	26.86	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.37	27.08	26.88	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.38	27.10	26.90	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.39	27.12	26.92	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.40	27.14	26.94	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.41	27.16	26.96	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.42	27.18	26.98	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.43	27.20	27.00	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.44	27.22	27.02	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.45	27.24	27.04	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.46	27.26	27.06	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.47	27.28	27.08	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.48	27.30	27.10	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.49	27.32	27.12	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.50	27.34	27.14	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.51	27.36	27.16	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.52	27.38	27.18	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.53	27.40	27.20	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1	26.54	27.42	27.22	25.0	27.0	6.0
Frequency (MHz)									
90	QPSK	1	1						

Part27Q n78 PC2 Ant7 Default Power									
Env (MHz)	Modulation	RB Size	RB Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	25.52					
180	P12 BPSK	1	127	25.52				27.0	0.0
180	P12 BPSK	1	251	25.52					
180	P12 BPSK	156	0	25.52				27.0	0.0
180	P12 BPSK	156	66	25.48				27.0	0.0
180	P12 BPSK	250	0	25.52				27.0	0.0
180	QPSK	1	1	25.52					
180	QPSK	1	127	25.52				27.0	0.0
180	QPSK	1	251	25.52					
180	QPSK	156	0	25.52				27.0	0.0
180	QPSK	156	66	25.47				27.0	0.0
180	QPSK	250	0	25.52				27.0	0.0
180	16QAM	1	1	25.52				27.0	0.0
180	16QAM	1	1	25.52				27.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.54	25.40	25.52	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.54	25.41	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.54	25.53	25.48	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.54	25.54	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.53	25.40	25.52	27.0	0.0	
60	QPSK	1	1	25.53	25.40	25.52	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.54	25.52	25.52	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.52	25.52	25.52	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.52	25.52	25.52	27.0	0.0	

Part27Q n78 PC2 Ant7 Default Power									
Env (MHz)	Modulation	RB Size	RB Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	25.52				27.0	0.0
180	P12 BPSK	1	127	25.52					
180	P12 BPSK	1	251	25.52				27.0	0.0
180	P12 BPSK	156	0	25.52					
180	P12 BPSK	156	66	25.42				27.0	0.0
180	P12 BPSK	250	0	25.54				27.0	0.0
180	P12 BPSK	250	0	25.54				27.0	0.0
180	QPSK	1	1	25.52				27.0	0.0
180	QPSK	1	127	25.52					
180	QPSK	1	251	25.52				27.0	0.0
180	QPSK	156	0	25.52					
180	QPSK	156	66	25.42				27.0	0.0
180	QPSK	250	0	25.52				27.0	0.0
180	16QAM	1	1	25.52				27.0	0.0
180	16QAM	1	1	25.52				27.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.52	25.41	25.44	27.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.52	25.53	25.48	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.52	25.54	25.54	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.52	25.52	25.52	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.49	25.50	25.49	27.0	0.0	
60	QPSK	1	1	25.49	25.50	25.49	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.52	25.51	25.49	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.52	25.54	25.51	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.52	25.52	25.52	27.0	0.0	

Part27Q n78 Ant8 Default Power									
Env (MHz)	Modulation	RB Size	RB Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	21.56					
180	P12 BPSK	1	127	22.22			22.0	0.0	
180	P12 BPSK	1	251	22.22					
180	P12 BPSK	156	0	22.22			22.0	0.0	
180	P12 BPSK	156	66	21.68			22.0	0.0	
180	P12 BPSK	250	0	21.68			22.0	0.0	
180	P12 BPSK	250	0	21.68			22.0	0.0	
180	QPSK	1	1	22.22					
180	QPSK	1	127	22.22			22.0	0.0	
180	QPSK	1	251	22.22					
180	QPSK	156	0	22.22			22.0	0.0	
180	QPSK	156	66	21.68			22.0	0.0	
180	QPSK	250	0	21.67			22.0	0.0	
180	16QAM	1	1	21.68			22.0	0.0	
180	16QAM	1	1	21.68			22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.02	22.02	22.02	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.56	22.12	21.46	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.56	22.12	21.46	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.56	22.12	21.46	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.08	22.08	22.08	22.0	0.0	
60	QPSK	1	1	22.08	22.08	22.08	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.56	22.12	21.46	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.57	22.08	21.47	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.68	22.12	21.46	22.0	0.0	

Part27Q n78 Ant8 Default Power									
Env (MHz)	Modulation	RB Size	RB Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	21.54			22.0	0.0	
180	P12 BPSK	1	127	21.52					
180	P12 BPSK	1	251	21.58			22.0	0.0	
180	P12 BPSK	156	0	21.71					
180	P12 BPSK	156	66	21.62			22.0	0.0	
180	P12 BPSK	250	0	21.65			22.0	0.0	
180	P12 BPSK	250	0	21.62			22.0	0.0	
180	QPSK	1	1	22.02			22.0	0.0	
180	QPSK	1	127	22.02					
180	QPSK	1	251	22.02					
180	QPSK	156	0	22.17			22.0	0.0	
180	QPSK	156	66	22.07			22.0	0.0	
180	QPSK	250	0	22.10			22.0	0.0	
180	QPSK	250	0	22.07			22.0	0.0	
180	16QAM	1	1	21.67			22.0	0.0	
180	16QAM	1	1	21.62			22.0	0.0	
180	16QAM	1	1	21.66			22.0	0.0	
Frequency (MHz)									
90	QPSK	1	1	21.88	21.83	21.85	22.0	0.0	
90	QPSK	1	1	21.83	21.88	21.85	22.0	0.0	
90	QPSK	1	1	21.85	21.83	21.88	22.0	0.0	
90	QPSK	1	1	21.88	21.83	21.85	22.0	0.0	
90	QPSK	1	1	21.84	21.76	21.77	22.0	0.0	
90	QPSK	1	1	21.76	21.84	21.77	22.0	0.0	
90	QPSK	1	1	21.77	21.76	21.84	22.0	0.0	
90	QPSK	1	1	21.76	21.77	21.84	22.0	0.0	
90	QPSK	1	1	21.80	21.80	21.80	22.0	0.0	
90	QPSK	1	1	21.80	21.80	21.80	22.0	0.0	
90	QPSK	1	1	21.82	21.72	21.75	22.0	0.0	
90	QPSK	1	1	21.72	21.82	21.75	22.0	0.0	
90	QPSK	1	1	21.75	21.72	21.82	22.0	0.0	
90	QPSK	1	1	21.72	21.75	21.82	22.0	0.0	
90	QPSK	1	1	21.81	21.74	21.75	22.0	0.0	
90	QPSK	1	1	21.74	21.81	21.75	22.0	0.0	
90	QPSK	1	1	21.75	21.74	21.81	22.0	0.0	
90	QPSK	1	1	21.74	21.75	21.81	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21.76	22.0	0.0	
90	QPSK	1	1	21.76	21.76	21			

Reduced Power Mode for 5G NR

n5 NSA Ant0 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Max Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (ms)	MPE (dB)	
Channel									
Frequency (MHz)									
20	PUSCH	1	1	22.45	22.55	22.73			
20	PUSCH	1	33	22.55	22.34	22.87	24.0	0.0	
20	PUSCH	1	104	22.65	22.52	22.83			
20	PUSCH	5	5	22.81	22.39	22.85	24.0	0.0	
20	PUSCH	34	34	22.85	22.39	22.73	24.0	0.0	
20	PUSCH	56	56	22.71	22.32	22.73	24.0	0.0	
20	PUSCH	108	0	22.68	23.09	22.79	24.0	0.0	
20	QPSK	1	1	22.74	22.39	22.88			
20	QPSK	1	33	22.74	22.39	22.88	24.0	0.0	
20	QPSK	1	104	22.73	22.95	22.83			
20	QPSK	5	5	22.97	22.39	22.39	24.0	0.0	
20	QPSK	34	34	22.52	22.39	22.39	24.0	0.0	
20	QPSK	56	56	22.75	22.31	22.66	24.0	0.0	
20	QPSK	108	0	22.72	22.85	22.38	24.0	0.0	
20	NRSS	1	1	22.46	22.77	22.58	24.0	0.0	
20	SSB/CMI	1	1	23.05	23.26	23.14	24.0	0.0	
20	SSB/CMI	1	1	23.32	23.29	23.24	22.5	0.5	
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.13	18.63	18.13	(dBm)	(dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.66	18.16	18.16	Time-up time (ms)	MPE (dB)	
16	QPSK	1	1	18.2	18.13	18.4	Time-up time (ms)	MPE (dB)	
16	QPSK	1	1	18.52	18.27	18.33	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.28	23.29	23.28	24.0	0.0	

n7 Ant0 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Max Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (ms)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUSCH	1	1	22.28	22.81	22.28			
40	PUSCH	1	108	22.14	22.41	22.28	24.0	0.0	
40	PUSCH	1	214	22.28	22.48	22.28			
40	PUSCH	108	0	22.24	22.41	22.31	24.0	0.0	
40	PUSCH	108	34	22.28	22.33	22.17	24.0	0.0	
40	PUSCH	108	108	22.13	22.37	22.28	24.0	0.0	
40	PUSCH	216	0	22.19	22.35	22.28	24.0	0.0	
40	QPSK	1	1	22.42	22.46	22.41			
40	QPSK	1	108	22.24	22.48	22.15	24.0	0.0	
40	QPSK	1	214	22.18	22.45	22.28			
40	QPSK	108	0	22.11	22.39	22.28	24.0	0.0	
40	QPSK	108	34	22.29	22.71	22.62	24.0	0.0	
40	QPSK	108	108	22.14	22.36	22.28	24.0	0.0	
40	QPSK	216	0	22.17	22.32	22.25	24.0	0.0	
40	NRSS	1	1	22.22	22.38	22.31	23.5	0.5	
40	SSB/CMI	1	1	22.95	23.24	23.07	22.5	1.5	
40	SSB/CMI	1	1	19.81	20.07	19.95	23.5	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.13	24.34	24.03	(dBm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.42	24.39	24.33	Time-up time (ms)	MPE (dB)	
25	QPSK	1	1	22.53	22.57	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.69	22.71	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	22.55	22.59	22.47	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.44	22.53	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.63	22.63	22.65	24.0	0.0	

n7 Ant1 DS12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Max Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (ms)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUSCH	1	1	18.29	18.13	18.23			
40	PUSCH	1	108	18.15	18.18	18.23	19.3	0.0	
40	PUSCH	1	214	18.33	18.17	18.26			
40	PUSCH	108	0	18.22	18.25	18.15	19.3	0.0	
40	PUSCH	108	34	18.25	18.21	18.29	19.3	0.0	
40	PUSCH	108	108	18.21	18.12	18.26	19.3	0.0	
40	PUSCH	216	0	18.23	18.19	18.21	19.3	0.0	
40	QPSK	1	1	18.17	18.20	18.19			
40	QPSK	1	108	18.17	18.17	18.21	19.3	0.0	
40	QPSK	1	214	18.14	18.19	18.17			
40	QPSK	108	0	18.21	18.20	18.17	19.3	0.0	
40	QPSK	108	34	18.20	18.22	18.12	19.3	0.0	
40	QPSK	108	108	18.20	18.19	18.23	19.3	0.0	
40	QPSK	216	0	18.22	18.25	18.24	19.3	0.0	
40	NRSS	1	1	18.25	18.17	18.21	19.3	0.0	
40	SSB/CMI	1	1	18.15	18.25	18.24	19.3	0.0	
40	SSB/CMI	1	1	18.29	18.24	18.24	19.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.15	24.35	24.05	(dBm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.14	24.30	24.01	Time-up time (ms)	MPE (dB)	
25	QPSK	1	1	18.13	18.25	18.13	19.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.14	18.19	18.07	19.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.07	18.17	18.07	19.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.05	24.15	24.05	(dBm)	(dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.10	18.24	18.14	19.3	0.0	

n66 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Max Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Time-up time (ms)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUSCH	1	1	18.11	18.19	18.12			
40	PUSCH	1	108	18.08	18.09	18.08	17.4	0.0	
40	PUSCH	1	214	18.09	18.11	18.13			
40	PUSCH	108	0	18.12	18.15	18.20	17.4	0.0	
40	PUSCH	108	34	18.15	18.19	18.08	17.4	0.0	
40	PUSCH	108	108	18.15	18.15	18.09	17.4	0.0	
40	PUSCH	216	0	18.14	18.07	18.08	17.4	0.0	
40	QPSK	1	1	18.11	18.23	18.17			
40	QPSK	1	108	18.18	18.08	18.05	17.4	0.0	
40	QPSK	1	214	18.14	18.08	18.19			
40	QPSK	108	0	18.11	18.07	18.09	17.4	0.0	
40	QPSK	108	34	18.05	18.12	18.11	17.4	0.0	
40	QPSK	108	108	18.15	18.07	18.11	17.4	0.0	
40	NRSS	1	1	18.15	18.16	18.07	17.4	0.0	
40	SSB/CMI	1	1	18.08	18.15	18.14	17.4	0.0	
40	SSB/CMI	1	1	18.16	18.08	18.05	17.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.24	18.45	18.04	(dBm)	(dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.46	18.04	18.04	Time-up time (ms)	MPE (dB)	
20	QPSK	1	1	18.15	18.19	18.04	17.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.09	18.05	18.12	17.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.11	18.03	18.05	17.4	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.24	18.16	18.04	Time-up time (ms)	MPE (dB)	

n38 Ant 1 DSI2									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
40	PUS-BPSK	1	1	17.35	17.31	17.35			
40	PUS-BPSK	1	53	17.35	17.34	17.40	18.8	0.0	
40	PUS-BPSK	1	104	17.31	17.32	17.35			
40	PUS-BPSK	30	0	17.30	17.42	17.37	18.9	0.0	
40	PUS-BPSK	30	20	17.30	17.35	17.40	18.9	0.0	
40	PUS-BPSK	30	50	17.40	17.32	17.37	18.9	0.0	
40	PUS-BPSK	100	0	17.35	17.42	17.38			
40	QPSK	1	1	17.45	17.33	17.40			
40	QPSK	1	53	17.35	17.40	17.39	18.8	0.0	
40	QPSK	1	104	17.45	17.38	17.35			
40	QPSK	30	0	17.37	17.38	17.34	18.9	0.0	
40	QPSK	30	20	17.41	17.46	17.45	18.9	0.0	
40	QPSK	30	50	17.39	17.43	17.40	18.9	0.0	
40	QPSK	100	0	17.35	17.44	17.42			
40	SSB-QAM	1	1	17.35	17.37	17.36	18.9	0.0	
40	SSB-QAM	1	1	17.37	17.45	17.42	18.9	0.0	
40	SSB-QAM	1	1	17.40	17.44	17.33	18.9	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.25	17.34	17.25	18.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.11	17.34	17.25	18.9	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.25	17.34	17.25	18.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.25	17.44	17.17	18.8	0.0	

Par27Q n77 Ant 2 DSI2									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Turnup time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PUS-BPSK	1	1	21.03					
100	PUS-BPSK	1	137	21.01			21.7	0.0	
100	PUS-BPSK	1	271	21.03					
100	PUS-BPSK	100	0	20.97			21.7	0.0	
100	PUS-BPSK	100	40	21.06			21.7	0.0	
100	PUS-BPSK	100	136	20.97			21.7	0.0	
100	PUS-BPSK	270	0	20.92					
100	QPSK	1	1	21.05					
100	QPSK	1	137	21.07			21.7	0.0	
100	QPSK	1	271	21.03					
100	QPSK	100	0	21.02			21.7	0.0	
100	QPSK	100	40	21.07			21.7	0.0	
100	QPSK	100	136	21.07			21.7	0.0	
100	QPSK	270	0	21.11					
100	SSB-QAM	1	1	21.01			21.7	0.0	
100	SSB-QAM	1	1	20.85			20.5	0.2	
100	SSB-QAM	1	1	21.05			20.5	0.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.65	20.99	20.50	0.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.71	20.88	20.40	0.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.76	20.89	20.95	0.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.84	20.93	20.78	0.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.76	20.90	20.91	0.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.73	20.90	20.00	0.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.83	20.96	20.92	0.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.73	20.89	20.90	0.0	0.0	

Part270 n77 Ant 2 DSI2									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Turn-up time (dBm)	MPE (dB)	
Channel									
Frequency (MHz)									
100	PUS-BPSK	1	1	20.33	20.34	20.31			
100	PUS-BPSK	1	137	19.84	20.01	19.95	21.7	0.0	
100	PUS-BPSK	1	271	19.91	20.02	19.91			
100	PUS-BPSK	100	0	19.99	19.89	19.92	21.7	0.0	
100	PUS-BPSK	100	40	19.99	19.84	19.91	21.7	0.0	
100	PUS-BPSK	100	136	19.88	19.94	19.89	21.7	0.0	
100	PUS-BPSK	270	0	19.93	19.87	19.94			
100	QPSK	1	1	20.31	20.06	20.37			
100	QPSK	1	137	19.23	19.57	19.30	21.7	0.0	
100	QPSK	1	271	19.41	19.50	19.30			
100	QPSK	100	0	20.01	20.08	20.01	21.7	0.0	
100	QPSK	100	40	20.16	20.09	20.19	21.7	0.0	
100	QPSK	100	136	19.80	19.89	19.59	21.7	0.0	
100	QPSK	270	0	19.91	20.11	19.80			
100	SSB-QAM	1	1	19.91	19.97	19.80	21.7	0.0	
100	SSB-QAM	1	1	19.87	20.21	20.00	20.5	0.2	
100	SSB-QAM	1	1	19.10	19.10	19.07	19.5	0.2	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.40	20.25	20.01	21.9	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.99	20.30	20.03	21.7	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.99	20.25	20.07	21.9	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.99	20.23	20.12	21.9	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.99	20.31	20.09	21.9	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.07	20.30	20.10	21.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.11	20.26	20.02	21.9	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.99	20.31	20.01	21.9	0.0	



Part27Q n78 PC2&3 Ant 2 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Media Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turnup time (dBm)	MPR (dB)	
Channel									
Frequency [MHz]									
100	PIQ BPSK	1	1	21.43					
100	PIQ BPSK	1	137	21.51			22.0	0.0	
100	PIQ BPSK	1	271	21.48					
100	PIQ BPSK	135	0	21.53			22.0	0.0	
100	PIQ BPSK	135	68	21.47			22.0	0.0	
100	PIQ BPSK	135	138	21.37			22.0	0.0	
100	PIQ BPSK	270	0	21.45					
100	QPSK	1	1	21.35					
100	QPSK	1	137	21.51			22.0	0.0	
100	QPSK	1	271	21.41					
100	QPSK	135	0	21.51			22.0	0.0	
100	QPSK	135	68	21.50			22.0	0.0	
100	QPSK	135	138	21.37			22.0	0.0	
100	QPSK	270	0	21.44			22.0	0.0	
100	16QAM	1	1	21.34			22.0	0.0	
100	16QAM	1	1	21.48			22.0	0.0	
100	16QAM	1	1	21.36			22.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	21.54	21.12	21.05	22.0	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	21.38	21.21	21.05	22.0	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	21.27	21.15	21.01	22.0	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	21.50	21.18	21.08	22.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	21.25	21.13	21.01	22.0	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	21.23	21.18	21.11	22.0	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	21.51	21.12	21.01	22.0	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	21.34	21.02	21.01	22.0	0.0	

Part27O n78 PC2&3 Ant 2 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Media Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency [MHz]									
100	PIQ BPSK	1	1	21.35					
100	PIQ BPSK	1	137	21.83			22.0	0.0	
100	PIQ BPSK	1	271	21.75					
100	PIQ BPSK	135	0	21.81			22.0	0.0	
100	PIQ BPSK	135	68	21.80			22.0	0.0	
100	PIQ BPSK	135	138	21.69			22.0	0.0	
100	PIQ BPSK	270	0	21.84					
100	QPSK	1	1	21.81					
100	QPSK	1	137	21.85			22.0	0.0	
100	QPSK	1	271	21.73					
100	QPSK	135	0	21.71			22.0	0.0	
100	QPSK	135	68	21.66			22.0	0.0	
100	QPSK	135	138	21.74			22.0	0.0	
100	QPSK	270	0	21.82			22.0	0.0	
100	16QAM	1	1	21.72			22.0	0.0	
100	16QAM	1	1	21.68			22.0	0.0	
100	16QAM	1	1	21.65			22.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	21.41	21.02	21.04	22.0	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	21.37	21.49	21.39	22.0	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	21.58	21.45	21.35	22.0	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	21.48	21.50	21.37	22.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	21.36	21.48	21.49	22.0	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	21.41	21.49	21.40	22.0	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	21.44	21.56	21.41	22.0	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	21.35	21.48	21.42	22.0	0.0	

Part27Q n78 Ant 3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Media Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PIQ BPSK	1	1	22.45					
100	PIQ BPSK	1	137	22.48			24.0	0.0	
100	PIQ BPSK	1	271	22.50					
100	PIQ BPSK	135	0	22.38			24.0	0.0	
100	PIQ BPSK	135	68	22.47			24.0	0.0	
100	PIQ BPSK	135	138	22.49			24.0	0.0	
100	PIQ BPSK	270	0	22.48					
100	QPSK	1	1	22.50					
100	QPSK	1	137	22.56			24.0	0.0	
100	QPSK	1	271	22.52					
100	QPSK	135	0	22.38			24.0	0.0	
100	QPSK	135	68	22.46			24.0	0.0	
100	QPSK	135	138	22.47			24.0	0.0	
100	QPSK	270	0	22.45			24.0	0.0	
100	16QAM	1	1	22.28			24.0	0.0	
100	16QAM	1	1	22.43			24.0	0.0	
100	16QAM	1	1	22.42			24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.80	22.54	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.56	22.49	22.48	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.55	22.36	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.55	22.36	22.49	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.62	22.41	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.47	22.48	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.49	22.46	22.38	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.41	22.33	22.41	24.0	0.0	

Part27O n78 Ant 3 DS12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Media Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency [MHz]									
100	PIQ BPSK	1	1	22.45					
100	PIQ BPSK	1	137	22.44			24.0	0.0	
100	PIQ BPSK	1	271	22.48					
100	PIQ BPSK	135	0	22.42			24.0	0.0	
100	PIQ BPSK	135	68	22.49			24.0	0.0	
100	PIQ BPSK	135	138	22.46			24.0	0.0	
100	PIQ BPSK	270	0	22.44					
100	QPSK	1	137	22.71			24.0	0.0	
100	QPSK	1	271	22.74					
100	QPSK	135	0	22.68			24.0	0.0	
100	QPSK	135	68	22.75			24.0	0.0	
100	QPSK	135	138	22.72			24.0	0.0	
100	QPSK	270	0	22.70					
100	16QAM	1	137	22.84			24.0	0.0	
100	16QAM	1	271	22.88					
100	16QAM	135	0	22.82			24.0	0.0	
100	16QAM	135	68	22.89			24.0	0.0	
100	16QAM	135	138	22.86			24.0	0.0	
100	16QAM	270	0	22.84					
100	16QAM	1	137	22.93			24.0	0.0	
100	16QAM	1	271	22.96					
100	16QAM	135	0	22.90			24.0	0.0	
100	16QAM	135	68	22.97			24.0	0.0	
100	16QAM	135	138	22.94			24.0	0.0	
100	16QAM	270	0	22.92					
100	16QAM	1	137	23.01			24.0	0.0	
100	16QAM	1	271	23.04					
100	16QAM	135	0	23.00			24.0	0.0	
100	16QAM	135	68	23.07			24.0	0.0	
100	16QAM	135	138	23.04			24.0	0.0	
100	16QAM	270	0	23.02					
100	16QAM	1	137	23.11			24.0	0.0	
100	16QAM	1	271	23.14					
100	16QAM	135	0	23.10			24.0	0.0	
100	16QAM	135	68	23.17			24.0	0.0	
100	16QAM	135	138	23.14			24.0	0.0	
100	16QAM	270	0	23.12					
100	16QAM	1	137	23.21			24.0	0.0	
100	16QAM	1	271	23.24					
100	16QAM	135	0	23.20			24.0	0.0	
100	16QAM	135	68	23.27			24.0	0.0	
100	16QAM	135	138	23.24			24.0	0.0	
100	16QAM	270	0	23.22					
100	16QAM	1	137	23.31			24.0	0.0	
100	16QAM	1	271	23.34					
100	16QAM	135	0	23.30			24.0	0.0	
100	16QAM	135	68	23.37			24.0	0.0	
100	16QAM	135	138	23.34			24.0	0.0	
100	16QAM	270	0	23.32					
100	16QAM	1	137	23.41			24.0	0.0	
100	16QAM	1	271	23.44					
100	16QAM	135	0	23.40			24.0	0.0	
100	16QAM	135	68	23.47			24.0	0.0	
100	16QAM	135	138	23.44			24.0	0.0	
100	16QAM	270	0	23.42					
100	16QAM	1	137	23.51			24.0	0.0	
100	16QAM	1	271	23.54					
100	16QAM	135	0	23.50			24.0	0.0	
100	16QAM	135	68	23.57			24.0	0.0	
100	16QAM	135	138	23.54			24.0	0.0	
100	16QAM	270	0	23.52					
100	16QAM	1	137	23.61			24.0	0.0	
100	16QAM	1	271	23.64					
100	16QAM	135	0	23.60			24.0	0.0	
100	16QAM	135	68	23.67			24.0	0.0	
100	16QAM	135	138	23.64			24.0	0.0	
100	16QAM	270	0	23.62					
100	16QAM	1	137	23.71			24.0	0.0	
100	16QAM	1	271	23.74					
100	16QAM	135	0	23.70			24.0	0.0	
100	16QAM	135	68	23.77			24.0	0.0	
100	16QAM	135	138	23.74			24.0	0.0	
100	16QAM	270	0	23.72					
100	16QAM	1	137	23.81			24.0	0.0	
100	16QAM	1	271	23.84					
100	16QAM	135	0	23.80			24.0	0.0	
100	16QAM	135	68	23.87			24.0	0.0	
100	16QAM	135	138	23.84			24.0	0.0	
100	16QAM	270	0	23.82					
100	16QAM	1	137	23.91			24.0	0.0	
100	16QAM	1	271	23.94					
100	16QAM	135	0	23.90			24.0	0.0	
100	16QAM	135	68	23.97			24.0	0.0	
100	16QAM	135	138	23.94			24.0	0.0	
100	16QAM	270	0	23.92					
100	16QAM	1	137	24.01			24.0	0.0	
100	16QAM	1	271	24.04					
100	16QAM	135	0	24.00			24.0	0.0	
100	16QAM	135	68	24.07			24.0	0.0	
100	16QAM	135	138	24.04			24.0	0.0	
100	16QAM	270	0	24.02					
100	16QAM	1	137	24.11			24.0	0.0	
100	16QAM	1	271	24.14					
100	16QAM	135	0	24.10			24.0	0.0	
100	16QAM	135	68	24.17			24.0	0.0	
100	16QAM	135	138	24.14			24.0	0.0	
100	16QAM	270	0	24.12					
100	16QAM	1	137	24.21			24.0	0.0	
100	16QAM	1	271	24.24					
100	16QAM	135	0	24.20			24.0	0.0	
100	16QAM	135	68	24.27			24.0	0.0	
100	16QAM	135	138	24.24			24.0	0.0	
100	16QAM	270	0	24.22					
100	16QAM	1	137	24.31			24.0	0.0	
100	16QAM	1	271	24.34					
100	16QAM	135	0	24.30			24.0	0.0	
100	16QAM	135	68	24.37			24.0	0.0	
100	16QAM	135	138	24.34			24.0	0.0	
100	16QAM	270	0	24.32					
100	16QAM	1	137	24.41			24.0	0.0	
100	16QAM	1	271	24.44					
100	16QAM	135	0	24.40			24.0	0.0	
100	16QAM	135	68	24.47			24.0	0.0	
100	16QAM	135	138	24.44			24.0	0.0	
100	16QAM	270	0	24.42					
100	16QAM	1	137	24.51			24.0	0.0	
100	16QAM	1	271	24.54					
100	16QAM	135	0	24.50			24.0	0.0	
100	16QAM	135	68	24.57			24.0	0.0	
100	16QAM	135	138	24.54			24.0	0.0	
100	16QAM	270	0	24.52					
100	16QAM	1	137	24.61			24.0	0.0	
100	16QAM	1	271	24.64					
100	16QAM	135	0	24.60			24.0	0.0	
100	16QAM	135	68	24.67			24.0	0.0	
100	16QAM	135	138	24.64			24.0	0.0	
100	16QAM	270	0	24.62					
100	16QAM	1	137	24.71			24.0	0.0	
100	16QAM	1	271	24.74					
100	16QAM	135	0	24.70			24.0	0.0	
100	16QAM	135	68	24.77			24.0	0.0	
100	16QAM	135	138	24.74			24.0	0.0	
100	16QAM	270	0	24.72					
100	16QAM	1	137	24.81			24.0	0.0	
100	16QAM	1	271	24.84					
100	16QAM	135	0	24.80			24.0	0.0	
100	16QAM	135	68	24.87			24.0	0.0	
100	16QAM	135	138	24.84			24.0	0.0	
100	16QAM	270	0	24.82					
100	16QAM	1	137	24.91			24.0	0.0	
100	16QAM	1	271	24.94					
100	16QAM	135	0	24.90			24.0	0.0	
100	16QAM	135	68	24.97			24.0	0.0	
100	16QAM	135	138	24.94			24.0	0.0	
100	16QAM	270	0	24.92					
100	16QAM	1	137	25.01			24.0	0.0	
100	16QAM	1	271	25.04					
100	16QAM	135	0	25.00			24.0	0.0	
100	16QAM	135	68	25.07			24.0	0.0	
100	16QAM	135	138	25.04			24.0	0.0	
100	16QAM	270	0	25.02					
100	16QAM	1	137	25.11			24.0	0.0	
100	16QAM	1	271	25.14					
100	16QAM	135	0	25.10			24.0	0.0	
100	16QAM	135	68	25.17			24.0	0.0	
100	16QAM	135	138	25.14			24.0	0.0	
100	16QAM	270	0	25.12					
100	16QAM	1	137	25.21			24.0	0.0	
100	16QAM	1	271	25.24					
100	16QAM	135	0	25.20			24.0	0.0	
100	16QAM	135	68	25.27			24.0	0.0	
100	16QAM	135	138	25.24			24.0	0.0	
100	16QAM	270	0	25.22					
100	16QAM	1	137	25.31			24.0	0.0	
100	16QAM	1	271	25.34					
100	16QAM	135	0	25.30			24.0	0.0	
100	16QAM	135	68	25.37			24.0	0.0	
100	16QAM	135	138	25.34			24.0	0.0	
100	16QAM	270	0	25.32					
100	16QAM	1	137	25.41			24.0	0.0	
100	16QAM	1	271	25.44					
100	1								



Part27Q n78 Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Watt)	Power Made Ch.1 (Watt)	Power High Ch.1 (Watt)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.51			
100	PI2 BPSK	1	137	22.50			24.0
100	PI2 BPSK	1	271	22.48			24.0
100	PI2 BPSK	135	0	22.51			24.0
100	PI2 BPSK	135	66	22.50			24.0
100	PI2 BPSK	135	138	22.50			24.0
100	PI2 BPSK	270	0	22.47			24.0
100	QPSK	1	1	22.50			24.0
100	QPSK	1	137	22.58			24.0
100	QPSK	1	271	22.50			24.0
100	QPSK	135	0	22.41			24.0
100	QPSK	135	66	22.42			24.0
100	QPSK	135	138	22.42			24.0
100	QPSK	270	0	22.50			24.0
100	16QAM	1	1	22.33			24.0
100	16QAM	1	1	22.48			24.0
100	16QAM	1	1	22.54			24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.54	833334	833336	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.44	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.44	22.46	22.42	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.36	22.42	22.32	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.41	22.48	22.43	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.38	22.40	22.36	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.47	22.51	22.43	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.44	22.50	22.45	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.46	22.47	22.47	24.0

Part27O n78 Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Watt)	Power Made Ch.1 (Watt)	Power High Ch.1 (Watt)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.45			24.0
100	PI2 BPSK	1	137	22.44			24.0
100	PI2 BPSK	1	271	22.45			24.0
100	PI2 BPSK	135	0	22.48			24.0
100	PI2 BPSK	135	66	22.47			24.0
100	PI2 BPSK	135	138	22.46			24.0
100	PI2 BPSK	270	0	22.44			24.0
100	QPSK	1	1	22.51			24.0
100	QPSK	1	137	22.51			24.0
100	QPSK	1	271	22.43			24.0
100	QPSK	135	0	22.43			24.0
100	QPSK	135	66	22.45			24.0
100	QPSK	135	138	22.45			24.0
100	QPSK	270	0	22.45			24.0
100	16QAM	1	1	22.42			24.0
100	16QAM	1	1	22.48			24.0
100	16QAM	1	1	22.50			24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.38	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.38	22.43	22.32	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.43	22.36	22.37	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.37	22.42	22.32	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.37	22.39	22.37	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.37	22.39	22.37	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.37	22.39	22.37	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.28	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.35	22.35	22.35	24.0

Part27Q n78 HPUE Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Watt)	Power Made Ch.1 (Watt)	Power High Ch.1 (Watt)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	25.50			
100	PI2 BPSK	1	137	25.50			27.0
100	PI2 BPSK	1	271	25.51			27.0
100	PI2 BPSK	135	0	25.49			27.0
100	PI2 BPSK	135	66	25.49			27.0
100	PI2 BPSK	135	138	25.38			27.0
100	PI2 BPSK	270	0	25.54			27.0
100	QPSK	1	1	25.51			27.0
100	QPSK	1	137	25.63			27.0
100	QPSK	1	271	25.53			27.0
100	QPSK	135	0	25.53			27.0
100	QPSK	135	66	25.53			27.0
100	QPSK	135	138	25.55			27.0
100	QPSK	270	0	25.54			27.0
100	16QAM	1	1	25.42			27.0
100	16QAM	1	1	25.33			27.0
100	16QAM	1	1	25.33			27.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.54	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.54	25.61	25.54	27.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.56	25.61	25.51	27.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.53	25.60	25.53	27.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.53	25.59	25.58	27.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.53	25.59	25.58	27.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.54	25.59	25.49	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.59	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
20	QPSK	1	1	25.52	25.52	25.50	27.0

Part27O n78 HPUE Ant 7 DS12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 (Watt)	Power Made Ch.1 (Watt)	Power High Ch.1 (Watt)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	25.50			27.0
100	PI2 BPSK	1	137	25.50			27.0
100	PI2 BPSK	1	271	25.50			27.0
100	PI2 BPSK	135	0	25.52			27.0
100	PI2 BPSK	135	66	25.51			27.0
100	PI2 BPSK	135	138	25.14			27.0
100	PI2 BPSK	270	0	25.54			27.0
100	QPSK	1	1	25.51			27.0
100	QPSK	1	137	25.55			27.0
100	QPSK	1	271	25.51			27.0
100	QPSK	135	0	25.53			27.0
100	QPSK	135	66	25.53			27.0
100	QPSK	135	138	25.55			27.0
100	QPSK	270	0	25.41			27.0
100	16QAM	1	1	25.43			27.0
100	16QAM	1	1	25.42			27.0
100	16QAM	1	1	25.38			27.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	25.57	833334	834000	Turn-up time (dBm)
Channel							
Frequency (MHz)							
80	QPSK	1	1	25.56	25.63	25.48	27.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	25.47	25.50	25.53	27.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	25.54	25.54	25.52	27.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	25.52	25.51	25.43	27.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	25.58	25.54	25.51	27.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	25.53	25.58	25.57	27.0

Part27Q n78 Ant 8 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Max Ch.1 Freq.	Power High Ch.1 Freq.	Temp-up limit (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PLC BPSK	1	1	21.86				
100	PLC BPSK	1	137	22.04			22.9	0.0
100	PLC BPSK	1	271	22.02				
100	PLC BPSK	135	0	22.07			22.9	0.0
100	PLC BPSK	135	136	21.86			22.9	0.0
100	PLC BPSK	270	0	21.86			22.9	0.0
100	QPSK	1	1	22.05				
100	QPSK	1	137	22.14			22.9	0.0
100	QPSK	1	271	22.05				
100	QPSK	135	0	22.01			22.9	0.0
100	QPSK	135	136	21.86			22.9	0.0
100	QPSK	270	0	21.86			22.9	0.0
100	16QAM	1	1	21.86			22.9	0.0
100	16QAM	1	1	22.18			22.9	0.0
100	16QAM	1	1	21.86			22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63068	63034	63098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	63068	63034	63098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.02	3480.51	3481.53	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.60	22.16	21.07	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.08	22.16	22.00	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.09	21.88	21.91	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63034	63034	63034	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.01	3480.51	3481.50	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.09	21.88	21.91	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63068	63034	63098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.02	3480.51	3481.53	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.08	22.12	21.87	22.9	0.0

Part27O n78 Ant 8 DSI2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq.	Power Max Ch.1 Freq.	Power High Ch.1 Freq.	Temp-up limit (dBm)	MPE (dB)
Channel								
Frequency (MHz)								
100	PLC BPSK	1	1	21.84			22.9	0.0
100	PLC BPSK	1	137	21.82			22.9	0.0
100	PLC BPSK	1	271	21.82			22.9	0.0
100	PLC BPSK	135	0	21.73			22.9	0.0
100	PLC BPSK	135	136	21.85			22.9	0.0
100	PLC BPSK	270	0	21.82			22.9	0.0
100	QPSK	1	1	22.05			22.9	0.0
100	QPSK	1	137	21.99			22.9	0.0
100	QPSK	1	271	21.98			22.9	0.0
100	QPSK	135	0	21.77			22.9	0.0
100	QPSK	135	136	21.86			22.9	0.0
100	QPSK	270	0	21.85			22.9	0.0
100	16QAM	1	1	21.87			22.9	0.0
100	16QAM	1	1	21.86			22.9	0.0
100	16QAM	1	1	21.86			22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64068	64034	64098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.01	3480.51	3481.52	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.84	21.76	21.77	22.9	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.62	21.83	21.79	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	21.73	21.78	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64034	64034	64034	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.01	3480.51	3481.51	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	21.83	21.79	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64068	64034	64098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.02	3480.51	3481.53	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.81	21.74	21.75	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64034	64034	64034	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.01	3480.51	3481.51	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.82	21.83	21.79	22.9	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	64068	64034	64098	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	3481.02	3480.51	3481.53	Temp-up limit (dB)	MPE
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.81	21.77	21.81	22.9	0.0

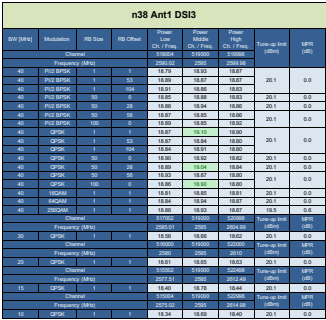


n5 NSA Ant 0 DS3i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Middle Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Tune-up time (s)	MPS (dB)	
Channel									
Frequency [MHz]									
20	PUS-BPSK	1	0	22.65	22.80	22.71			
20	PUS-BPSK	1	53	22.65	22.94	22.81	24.0	0.0	
20	PUS-BPSK	1	104	22.65	22.92	22.83			
20	PUS-BPSK	50	0	22.61	22.93	22.85	24.0	0.0	
20	PUS-BPSK	50	20	22.60	22.95	22.72	24.0	0.0	
20	PUS-BPSK	50	56	22.75	22.92	22.79	24.0	0.0	
20	PUS-BPSK	100	0	22.65	22.90	22.78			
20	QPSK	1	1	22.65	22.90	22.78			
20	QPSK	1	53	22.74	22.96	22.88	24.0	0.0	
20	QPSK	1	104	22.75	22.95	22.83			
20	QPSK	50	0	22.67	22.90	22.78	24.0	0.0	
20	QPSK	50	20	22.66	22.96	22.76	24.0	0.0	
20	QPSK	50	56	22.75	22.91	22.88	24.0	0.0	
20	QPSK	100	0	22.73	22.90	22.80			
20	8QAM	1	1	22.46	22.77	22.68	24.0	0.0	
20	8QAM	1	1	22.68	22.98	22.14	24.0	0.0	
20	8QAM	1	1	22.50	22.75	22.64	22.0	1.5	
Channel									
Frequency [MHz]									
10	QPSK	1	1	22.50	22.50	22.50	24.0	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	22.22	22.27	22.26	24.0	0.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	22.28	22.29	22.28	24.0	0.0	

n7 Ant 0 DS3i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. [MHz]	Power Middle Ch. 1 Freq. [MHz]	Power High Ch. 1 Freq. [MHz]	Tune-up time (s)	MPS (dB)	
Channel									
Frequency [MHz]									
40	PUS-BPSK	1	1	19.02	19.03	19.05			
40	PUS-BPSK	1	106	19.12	19.04	19.08	20.4	0.0	
40	PUS-BPSK	1	214	19.13	19.13	19.05			
40	PUS-BPSK	100	0	19.02	19.01	19.07	20.4	0.0	
40	PUS-BPSK	100	56	19.00	19.07	19.08	20.4	0.0	
40	PUS-BPSK	100	106	18.99	19.13	19.11	20.4	0.0	
40	PUS-BPSK	216	0	19.12	19.12	19.08			
40	QPSK	1	1	19.11	19.10	19.05			
40	QPSK	1	106	19.09	19.09	19.04	20.4	0.0	
40	QPSK	1	214	19.09	19.04	19.03			
40	QPSK	100	0	19.09	19.02	19.05	20.4	0.0	
40	QPSK	100	56	19.04	19.06	19.06	20.4	0.0	
40	QPSK	100	106	19.05	19.10	19.04	20.4	0.0	
40	QPSK	216	0	19.01	19.07	19.04			
40	8QAM	1	1	19.10	19.01	19.02	20.4	0.0	
40	8QAM	1	1	19.01	19.09	19.01	20.4	0.0	
40	8QAM	1	1	19.03	19.03	19.13	20.4	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	19.07	19.12	19.01	20.4	0.0	
Channel									
Frequency [MHz]									
25	QPSK	1	1	19.04	19.01	19.00	20.4	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	18.95	19.04	19.03	20.4	0.0	
Channel									
Frequency [MHz]									
15	QPSK	1	1	18.78	19.04	19.03	20.4	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	19.01	19.08	19.08	20.4	0.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	19.04	19.00	19.06	20.4	0.0	

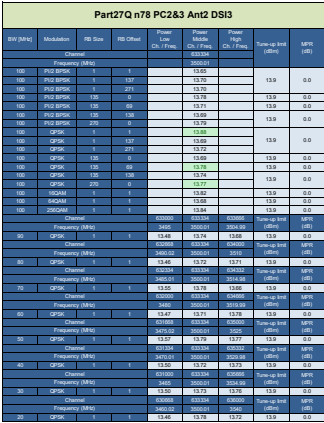
n7 Ant 1 DS3i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. [MHz]	Power Middle Ch. 1 Freq. [MHz]	Power High Ch. 1 Freq. [MHz]	Tune-up time (s)	MPS (dB)	
Channel									
Frequency [MHz]									
40	PUS-BPSK	1	1	18.79	18.85	18.85			
40	PUS-BPSK	1	106	18.82	18.84	18.75	20.3	0.0	
40	PUS-BPSK	1	214	18.81	18.73	18.80			
40	PUS-BPSK	100	0	18.69	18.81	18.80	20.3	0.0	
40	PUS-BPSK	100	56	18.71	18.80	18.80	20.3	0.0	
40	PUS-BPSK	100	106	18.85	18.80	18.72	20.3	0.0	
40	PUS-BPSK	216	0	18.82	18.84	18.71			
40	QPSK	1	1	18.74	18.80	18.71			
40	QPSK	1	106	18.82	18.84	18.80	20.3	0.0	
40	QPSK	1	214	18.82	18.80	18.81			
40	QPSK	100	0	18.68	18.72	18.80	20.3	0.0	
40	QPSK	100	56	18.79	18.80	18.80	20.3	0.0	
40	QPSK	100	106	18.81	18.70	18.75	20.3	0.0	
40	QPSK	216	0	18.82	18.70	18.84			
40	8QAM	1	1	18.80	18.72	18.72	20.3	0.0	
40	8QAM	1	1	18.81	18.63	18.82	20.3	0.0	
40	8QAM	1	1	18.06	18.60	18.61	20.3	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	18.87	18.70	18.84	20.3	0.0	
Channel									
Frequency [MHz]									
25	QPSK	1	1	18.61	18.71	18.61	20.3	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	18.68	18.70	18.61	20.3	0.0	
Channel									
Frequency [MHz]									
15	QPSK	1	1	18.81	18.71	18.67	20.3	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	18.81	18.71	18.61	20.3	0.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	18.84	18.78	18.60	20.3	0.0	

n66 Ant 1 DS3i									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq. [MHz]	Power Middle Ch. 1 Freq. [MHz]	Power High Ch. 1 Freq. [MHz]	Tune-up time (s)	MPS (dB)	
Channel									
Frequency [MHz]									
40	PUS-BPSK	1	1	16.80	16.80	16.81			
40	PUS-BPSK	1	106	16.40	16.58	16.49	18.1	0.0	
40	PUS-BPSK	1	214	16.15	16.57	16.80			
40	PUS-BPSK	100	0	16.81	16.82	16.54	18.1	0.0	
40	PUS-BPSK	100	56	16.40	16.81	16.81	18.1	0.0	
40	PUS-BPSK	100	106	16.49	16.51	16.62	18.1	0.0	
40	PUS-BPSK	216	0	16.82	16.84	16.53			
40	QPSK	1	1	16.08	16.77	16.80			
40	QPSK	1	106	16.54	16.51	16.40	18.1	0.0	
40	QPSK	1	214	16.18	16.52	16.53			
40	QPSK	100	0	16.38	16.52	16.58	18.1	0.0	
40	QPSK	100	56	16.54	16.36	16.38	18.1	0.0	
40	QPSK	100	106	16.63	16.53	16.59	18.1	0.0	
40	QPSK	216	0	16.56	16.68	16.61			
40	8QAM	1	1	16.40	16.82	16.27	18.1	0.0	
40	8QAM	1	1	16.80	16.40	16.82	18.1	0.0	
40	20QAM	1	1	16.56	16.50	16.20	18.1	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	16.40	16.82	16.40	18.1	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	16.44	16.59	16.33	18.1	0.0	
Channel									
Frequency [MHz]									
15	QPSK	1	1	16.42	16.56	16.41	18.1	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	16.18	17.62	17.60	18.1	0.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	16.18	17.62	17.60	18.1	0.0	

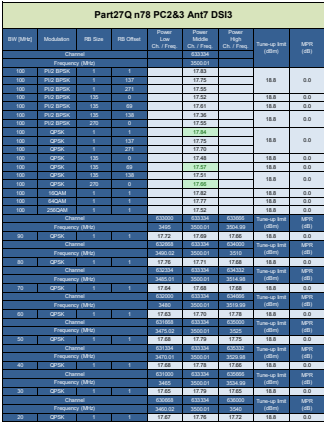


Par27a n77 Ant2 DS13											
BNF (24h)	Modulation	Chrom	Site	Ref	Chrom	Line	Chrom	Ref	Phase (h)	Amplitude (μV)	APB (μV)
100	PG1	PG1	1	1	1	13.39					
	Frequency (Hz)					13.39					
100	PG1	PG1	1	211	1	13.36			14.4	0.2	
	Frequency (Hz)					13.36					
100	PG1	PG1	1	211	1	13.37			14.4	0.2	
	Frequency (Hz)					13.37					
100	PG1	PG1	1	126	1	13.32			14.4	0.2	
	Frequency (Hz)					13.32					
100	PG1	PG1	1	126	1	13.32			14.4	0.2	
	Frequency (Hz)					13.32					
100	CP1	CP1	1	142	1	13.41			14.4	0.4	
	Frequency (Hz)					13.41					
100	CP1	CP1	1	271	1	13.33			16.4	0.2	
	Frequency (Hz)					13.33					
100	CP1	CP1	1	142	1	13.33			16.4	0.2	
	Frequency (Hz)					13.33					
100	CP1	CP1	1	142	1	13.33			14.4	0.2	
	Frequency (Hz)					13.33					
100	CP1	CP1	1	271	1	13.33			14.4	0.2	
	Frequency (Hz)					13.33					
100	CP1	CP1	1	142	1	13.33			14.4	0.2	
	Frequency (Hz)					13.33					
100	CP1	CP1	1	142	1	13.32			14.4	0.2	
	Frequency (Hz)					13.32					
100	CP1	CP1	1	142	1	13.41			14.4	0.2	
	Frequency (Hz)					13.41					
	Channel				EP1000	EP1000	EP1000	EP1000	Training time	14.16	
40	CP1	CP1	1	1	1	13.09	13.12	12.22	0.2	0.2	
	Frequency (Hz)					13.09	13.12	12.22			
40	CP1	CP1	1	1	1	13.09	13.12	12.22	0.2	0.2	
	Frequency (Hz)					13.09	13.12	12.22			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	
	Frequency (Hz)					12.51	12.52	11.36			
40	CP1	CP1	1	1	1	12.51	12.52	11.36	0.2	0.2	

Part20 n77 Ant2 DS13										
RF [MHz]	Modulation	Ch. ID	RF Chn#	Ch. Freq. [MHz]	Line C/A [MHz]	Line S/C [MHz]	Carrier Freq. [MHz]	Power [dBm]	Time-on-air (sec)	SNR [dB]
100	FM (BPSK)	1	1	123.9	123.92	123.9	123.9	-126		
100	Frequency Modulation	1	1	123.9	123.92	123.9	123.9	-126	14.4	0.0
100	FM (BPSK)	1	211	123.81	123.71	123.8	123.8	-126		
100	Frequency Modulation	1	211	123.81	123.71	123.8	123.8	-126	14.4	0.0
100	FM (BPSK)	1	212	123.72	123.62	123.7	123.7	-126		
100	Frequency Modulation	1	212	123.72	123.62	123.7	123.7	-126	14.4	0.0
100	FM (BPSK)	1	213	123.63	123.53	123.6	123.6	-126		
100	Frequency Modulation	1	213	123.63	123.53	123.6	123.6	-126	14.4	0.0
100	FM (BPSK)	1	214	123.54	123.44	123.5	123.5	-126		
100	Frequency Modulation	1	214	123.54	123.44	123.5	123.5	-126	14.4	0.0
100	FM (BPSK)	1	215	123.45	123.35	123.4	123.4	-126		
100	Frequency Modulation	1	215	123.45	123.35	123.4	123.4	-126	14.4	0.0
100	FM (BPSK)	1	216	123.36	123.26	123.3	123.3	-126		
100	Frequency Modulation	1	216	123.36	123.26	123.3	123.3	-126	14.4	0.0
100	FM (BPSK)	1	217	123.27	123.17	123.2	123.2	-126		
100	Frequency Modulation	1	217	123.27	123.17	123.2	123.2	-126	14.4	0.0
100	FM (BPSK)	1	218	123.18	123.08	123.1	123.1	-126		
100	Frequency Modulation	1	218	123.18	123.08	123.1	123.1	-126	14.4	0.0
100	FM (BPSK)	1	219	123.09	122.99	123.0	123.0	-126		
100	Frequency Modulation	1	219	123.09	122.99	123.0	123.0	-126	14.4	0.0
100	FM (BPSK)	1	220	123.00	122.90	123.0	123.0	-126		
100	Frequency Modulation	1	220	123.00	122.90	123.0	123.0	-126	14.4	0.0
100	FM (BPSK)	1	221	122.91	122.81	122.9	122.9	-126		
100	Frequency Modulation	1	221	122.91	122.81	122.9	122.9	-126	14.4	0.0
100	FM (BPSK)	1	222	122.82	122.72	122.8	122.8	-126		
100	Frequency Modulation	1	222	122.82	122.72	122.8	122.8	-126	14.4	0.0
100	FM (BPSK)	1	223	122.73	122.63	122.7	122.7	-126		
100	Frequency Modulation	1	223	122.73	122.63	122.7	122.7	-126	14.4	0.0
100	FM (BPSK)	1	224	122.64	122.54	122.6	122.6	-126		
100	Frequency Modulation	1	224	122.64	122.54	122.6	122.6	-126	14.4	0.0
100	FM (BPSK)	1	225	122.55	122.45	122.5	122.5	-126		
100	Frequency Modulation	1	225	122.55	122.45	122.5	122.5	-126	14.4	0.0
100	FM (BPSK)	1	226	122.46	122.36	122.4	122.4	-126		
100	Frequency Modulation	1	226	122.46	122.36	122.4	122.4	-126	14.4	0.0
100	FM (BPSK)	1	227	122.37	122.27	122.3	122.3	-126		
100	Frequency Modulation	1	227	122.37	122.27	122.3	122.3	-126	14.4	0.0
100	FM (BPSK)	1	228	122.28	122.18	122.2	122.2	-126		
100	Frequency Modulation	1	228	122.28	122.18	122.2	122.2	-126	14.4	0.0
100	FM (BPSK)	1	229	122.19	122.09	122.1	122.1	-126		
100	Frequency Modulation	1	229	122.19	122.09	122.1	122.1	-126	14.4	0.0
100	FM (BPSK)	1	230	122.10	122.00	122.1	122.1	-126		
100	Frequency Modulation	1	230	122.10	122.00	122.1	122.1	-126	14.4	0.0
100	FM (BPSK)	1	231	122.01	121.91	122.0	122.0	-126		
100	Frequency Modulation	1	231	122.01	121.91	122.0	122.0	-126	14.4	0.0
100	FM (BPSK)	1	232	121.92	121.82	121.9	121.9	-126		
100	Frequency Modulation	1	232	121.92	121.82	121.9	121.9	-126	14.4	0.0
100	FM (BPSK)	1	233	121.83	121.73	121.8	121.8	-126		
100	Frequency Modulation	1	233	121.83	121.73	121.8	121.8	-126	14.4	0.0
100	FM (BPSK)	1	234	121.74	121.64	121.7	121.7	-126		
100	Frequency Modulation	1	234	121.74	121.64	121.7	121.7	-126	14.4	0.0
100	FM (BPSK)	1	235	121.65	121.55	121.6	121.6	-126		
100	Frequency Modulation	1	235	121.65	121.55	121.6	121.6	-126	14.4	0.0
100	FM (BPSK)	1	236	121.56	121.46	121.5	121.5	-126		
100	Frequency Modulation	1	236	121.56	121.46	121.5	121.5	-126	14.4	0.0
100	FM (BPSK)	1	237	121.47	121.37	121.4	121.4	-126		
100	Frequency Modulation	1	237	121.47	121.37	121.4	121.4	-126	14.4	0.0
100	FM (BPSK)	1	238	121.38	121.28	121.3	121.3	-126		
100	Frequency Modulation	1	238	121.38	121.28	121.3	121.3	-126	14.4	0.0
100	FM (BPSK)	1	239	121.29	121.19	121.2	121.2	-126		
100	Frequency Modulation	1	239	121.29	121.19	121.2	121.2	-126	14.4	0.0
100	FM (BPSK)	1	240	121.20	121.10	121.2	121.2	-126		
100	Frequency Modulation	1	240	121.20	121.10	121.2	121.2	-126	14.4	0.0
100	FM (BPSK)	1	241	121.11	121.01	121.1	121.1	-126		
100	Frequency Modulation	1	241	121.11	121.01	121.1	121.1	-126	14.4	0.0
100	FM (BPSK)	1	242	121.02	120.92	121.0	121.0	-126		
100	Frequency Modulation	1	242	121.02	120.92	121.0	121.0	-126	14.4	0.0
100	FM (BPSK)	1	243	120.93	120.83	120.9	120.9	-126		
100	Frequency Modulation	1	243	120.93	120.83	120.9	120.9	-126	14.4	0.0
100	FM (BPSK)	1	244	120.84	120.74	120.8	120.8	-126		
100	Frequency Modulation	1	244	120.84	120.74	120.8	120.8	-126	14.4	0.0
100	FM (BPSK)	1	245	120.75	120.65	120.7	120.7	-126		
100	Frequency Modulation	1	245	120.75	120.65	120.7	120.7	-126	14.4	0.0
100	FM (BPSK)	1	246	120.66	120.56	120.6	120.6	-126		
100	Frequency Modulation	1	246	120.66	120.56	120.6	120.6	-126	14.4	0.0
100	FM (BPSK)	1	247	120.57	120.47	120.5	120.5	-126		
100	Frequency Modulation	1	247	120.57	120.47	120.5	120.5	-126	14.4	0.0
100	FM (BPSK)	1	248	120.48	120.38	120.4	120.4	-126		
100	Frequency Modulation	1	248	120.48	120.38	120.4	120.4	-126	14.4	0.0
100	FM (BPSK)	1	249	120.39	120.29	120.3	120.3	-126		
100	Frequency Modulation	1	249	120.39	120.29	120.3	120.3	-126	14.4	0.0
100	FM (BPSK)	1	250	120.30	120.20	120.3	120.3	-126		
100	Frequency Modulation	1	250	120.30	120.20	120.3	120.3	-126	14.4	0.0
100	FM (BPSK)	1	251	120.21	120.11	120.2	120.2	-126		
100	Frequency Modulation	1	251	120.21	120.11	120.2	120.2	-126	14.4	0.0
100	FM (BPSK)	1	252	120.12	120.02	120.1	120.1	-126		
100	Frequency Modulation	1	252	120.12	120.02	120.1	120.1	-126	14.4	0.0
100	FM (BPSK)	1	253	120.03	119.93	120.0	120.0	-126		
100	Frequency Modulation	1	253	120.03	119.93	120.0	120.0	-126	14.4	0.0
100	FM (BPSK)	1	254	119.94	119.84	119.9	119.9	-126		
100	Frequency Modulation	1	254	119.94	119.84	119.9	119.9	-126	14.4	0.0
100	FM (BPSK)	1	255	119.85	119.75	119.8	119.8	-126		
100	Frequency Modulation	1	255	119.85	119.75	119.8	119.8	-126	14.4	0.0
100	FM (BPSK)	1	256	119.76	119.66	119.7	119.7	-126		
100	Frequency Modulation	1	256	119.76	119.66	119.7	119.7	-126	14.4	0.0
100	FM (BPSK)	1	257	119.67	119.57	119.6	119.6	-126		
100	Frequency Modulation	1	257	119.67	119.57	119.6	119.6	-126	14.4	0.0
100	FM (BPSK)	1	258	119.58	119.48	119.5	119.5	-126		
100	Frequency Modulation	1	258	119.58	119.48	119.5	119.5	-126	14.4	0.0
100	FM (BPSK)	1	259	119.49	119.39	119.4	119.4	-126		
100	Frequency Modulation	1	259	119.49	119.39	119.4	119.4	-126	14.4	0.0
100	FM (BPSK)	1	260	119.40	119.30	119.4	119.4	-126		
100	Frequency Modulation	1	260	119.40	119.30	119.4	119.4	-126	14.4	0.0
100	FM (BPSK)	1	261	119.31	119.21	119.3	119.3	-126		
100	Frequency Modulation	1	261	119.31	119.21	119.3	119.3	-126	14.4	0.0
100	FM (BPSK)	1	262	119.22	119.12	119.2	119.2	-126		
100	Frequency Modulation	1	262	119.22	119.12	119.2	119.2	-126	14.4	0.0
100	FM (BPSK)	1	263	119.13	119.03	119.1	119.1	-126		
100	Frequency Modulation	1	263	119.13	119.03	119.1	119.1	-126	14.4	0.0
100	FM (BPSK)	1	264	119.04	118.94	119.0	119.0	-126		
100	Frequency Modulation	1	264	119.04	118.94	119.0	119.0	-126	14.4	0.0
100	FM (BPSK)	1	265	118.95	118.85	118.9	118.9	-126		
100	Frequency Modulation	1	265	118.95	118.85	118.9	118.9	-126	14.4	0.0
100	FM (BPSK)	1	266	118.86	118.76	118.8	118.8	-126		
100	Frequency Modulation	1	266	118.86	118.76	118.8	118.8	-126	14.4	0.0
100	FM (BPSK)	1	267	118.77	118.67	118.7	118.7	-126		
100	Frequency Modulation	1	267	118.77	118.67	118.7	118.7	-126	14.4	0.0
100	FM (BPSK)	1	268	118.68	118.58	118.6	118.6	-126		
100	Frequency Modulation	1	268	118.68	118.58	118.6	118.6	-126	14.4	0.0
100	FM (BPSK)	1	269	118.59	118.49	118.5	118.5	-126		
100	Frequency Modulation	1	269	118.59	118.49	118.5	118.5	-126	14.4	0.0
100	FM (BPSK)	1	270	118.50	118.40	118.5	118.5	-126		
100	Frequency Modulation	1	270	118.50	118.40	118.5	118.5	-126	14.4	0.0
100	FM (BPSK)	1	271	118.41	118.31	118.4	118.4	-126		
100	Frequency Modulation	1	271	118.41	118.31	118.4	118.4	-126	14.4	0.0
100	FM (BPSK)	1	272	118.32	118.22	118.3	118.3	-126		
100	Frequency Modulation	1	272	118.32	118.22	118.3	118.3			

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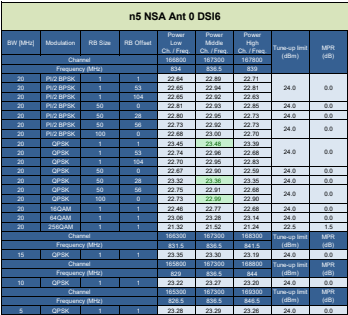
Part270 n76 ant3 DS13										
Ref	Module	Channel	Ref	Channel	Time Low Power	Time High Power	Power Ratio On Off	Power High Power Ratio	Power Ratio On Off	Power Ratio On Off
100	P18	DS13	1	1	20.93					
100	Frequency	DS13	1	1	21.44					
100	DS13	1	211	211	22.88				24.5	0.2
100	Frequency	DS13	1	211	23.33					
100	P18	DS13	120	88	22.56				24.5	0.2
100	Frequency	DS13	120	88	23.01					
100	DS13	1	120	88	22.95				24.5	0.5
100	Frequency	DS13	1	120	23.41					
100	DS13	1	271	271	22.55				24.0	0.4
100	Frequency	DS13	1	271	23.01					
100	DS13	120	88	88	22.57				24.5	0.2
100	Frequency	DS13	120	88	23.02					
100	DS13	271	271	22	22.71				24.5	0.2
100	Frequency	DS13	271	271	23.17					
100	DS13	120	88	88	22.80				24.5	0.2
100	Frequency	DS13	120	88	23.25					
Channel										
100	Frequency	DS13	120	88	22.90	22.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	22.90	22.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.00	23.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.00	23.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.10	23.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.10	23.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.20	23.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.20	23.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.30	23.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.30	23.30	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.40	23.40	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.40	23.40	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.50	23.50	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.50	23.50	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.60	23.60	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.60	23.60	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.70	23.70	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.70	23.70	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.80	23.80	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.80	23.80	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	23.90	23.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	23.90	23.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.00	24.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.00	24.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.10	24.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.10	24.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.20	24.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.20	24.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.30	24.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.30	24.30	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.40	24.40	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.40	24.40	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.50	24.50	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.50	24.50	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.60	24.60	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.60	24.60	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.70	24.70	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.70	24.70	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.80	24.80	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.80	24.80	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	24.90	24.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	24.90	24.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.00	25.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.00	25.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.10	25.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.10	25.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.20	25.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.20	25.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.30	25.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.30	25.30	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.40	25.40	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.40	25.40	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.50	25.50	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.50	25.50	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.60	25.60	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.60	25.60	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.70	25.70	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.70	25.70	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.80	25.80	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.80	25.80	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	25.90	25.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	25.90	25.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.00	26.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.00	26.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.10	26.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.10	26.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.20	26.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.20	26.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.30	26.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.30	26.30	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.40	26.40	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.40	26.40	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.50	26.50	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.50	26.50	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.60	26.60	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.60	26.60	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.70	26.70	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.70	26.70	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.80	26.80	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.80	26.80	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	26.90	26.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	26.90	26.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.00	27.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.00	27.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.10	27.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.10	27.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.20	27.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.20	27.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.30	27.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.30	27.30	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.40	27.40	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.40	27.40	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.50	27.50	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.50	27.50	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.60	27.60	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.60	27.60	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.70	27.70	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.70	27.70	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.80	27.80	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.80	27.80	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	27.90	27.90	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	27.90	27.90	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	28.00	28.00	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	28.00	28.00	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	28.10	28.10	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	28.10	28.10	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	28.20	28.20	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	28.20	28.20	0.0000	0.0000	24.5	0.2
100	Frequency	DS13	120	88	28.30	28.30	0.0000	0.0000	24.5	0.2
100	DS13	120	88	88	28.30	28.30	0.0000			



Par270 n76 PC263 Ant7 DS13									
Seq (kbp)	Substrates	Chem	Seq. Offset	Seq. Low C/G (%)	Seq. High C/G (%)	Seq. High T/A (%)	Sequencing error (%)	MPN (cfu/g)	
Control									
100	PC2	PC2	0	1	17.25	17.45	17.65	18.8	0.0
100	PC2	PC2	1	1	17.45	17.65	17.85	19.0	0.0
100	PC2	PC2	2	1	17.65	17.85	18.05	19.2	0.0
100	PC2	PC2	3	1	17.85	18.05	18.25	19.4	0.0
100	PC2	PC2	4	1	18.05	18.25	18.45	19.6	0.0
100	PC2	PC2	5	1	18.25	18.45	18.65	19.8	0.0
100	PC2	PC2	6	1	18.45	18.65	18.85	20.0	0.0
100	PC2	PC2	7	1	18.65	18.85	19.05	20.2	0.0
100	PC2	PC2	8	1	18.85	19.05	19.25	20.4	0.0
100	PC2	PC2	9	1	19.05	19.25	19.45	20.6	0.0
100	PC2	PC2	10	1	19.25	19.45	19.65	20.8	0.0
100	PC2	PC2	11	1	19.45	19.65	19.85	21.0	0.0
100	PC2	PC2	12	1	19.65	19.85	20.05	21.2	0.0
100	PC2	PC2	13	1	19.85	20.05	20.25	21.4	0.0
100	PC2	PC2	14	1	20.05	20.25	20.45	21.6	0.0
100	PC2	PC2	15	1	20.25	20.45	20.65	21.8	0.0
100	PC2	PC2	16	1	20.45	20.65	20.85	22.0	0.0
100	PC2	PC2	17	1	20.65	20.85	21.05	22.2	0.0
100	PC2	PC2	18	1	20.85	21.05	21.25	22.4	0.0
100	PC2	PC2	19	1	21.05	21.25	21.45	22.6	0.0
100	PC2	PC2	20	1	21.25	21.45	21.65	22.8	0.0
100	PC2	PC2	21	1	21.45	21.65	21.85	23.0	0.0
100	PC2	PC2	22	1	21.65	21.85	22.05	23.2	0.0
100	PC2	PC2	23	1	21.85	22.05	22.25	23.4	0.0
100	PC2	PC2	24	1	22.05	22.25	22.45	23.6	0.0
100	PC2	PC2	25	1	22.25	22.45	22.65	23.8	0.0
100	PC2	PC2	26	1	22.45	22.65	22.85	24.0	0.0
100	PC2	PC2	27	1	22.65	22.85	23.05	24.2	0.0
100	PC2	PC2	28	1	22.85	23.05	23.25	24.4	0.0
100	PC2	PC2	29	1	23.05	23.25	23.45	24.6	0.0
100	PC2	PC2	30	1	23.25	23.45	23.65	24.8	0.0
100	PC2	PC2	31	1	23.45	23.65	23.85	25.0	0.0
100	PC2	PC2	32	1	23.65	23.85	24.05	25.2	0.0
100	PC2	PC2	33	1	23.85	24.05	24.25	25.4	0.0
100	PC2	PC2	34	1	24.05	24.25	24.45	25.6	0.0
100	PC2	PC2	35	1	24.25	24.45	24.65	25.8	0.0
100	PC2	PC2	36	1	24.45	24.65	24.85	26.0	0.0
100	PC2	PC2	37	1	24.65	24.85	25.05	26.2	0.0
100	PC2	PC2	38	1	24.85	25.05	25.25	26.4	0.0
100	PC2	PC2	39	1	25.05	25.25	25.45	26.6	0.0
100	PC2	PC2	40	1	25.25	25.45	25.65	26.8	0.0
100	PC2	PC2	41	1	25.45	25.65	25.85	27.0	0.0
100	PC2	PC2	42	1	25.65	25.85	26.05	27.2	0.0
100	PC2	PC2	43	1	25.85	26.05	26.25	27.4	0.0
100	PC2	PC2	44	1	26.05	26.25	26.45	27.6	0.0
100	PC2	PC2	45	1	26.25	26.45	26.65	27.8	0.0
100	PC2	PC2	46	1	26.45	26.65	26.85	28.0	0.0
100	PC2	PC2	47	1	26.65	26.85	27.05	28.2	0.0
100	PC2	PC2	48	1	26.85	27.05	27.25	28.4	0.0
100	PC2	PC2	49	1	27.05	27.25	27.45	28.6	0.0
100	PC2	PC2	50	1	27.25	27.45	27.65	28.8	0.0
100	PC2	PC2	51	1	27.45	27.65	27.85	29.0	0.0
100	PC2	PC2	52	1	27.65	27.85	28.05	29.2	0.0
100	PC2	PC2	53	1	27.85	28.05	28.25	29.4	0.0
100	PC2	PC2	54	1	28.05	28.25	28.45	29.6	0.0
100	PC2	PC2	55	1	28.25	28.45	28.65	29.8	0.0
100	PC2	PC2	56	1	28.45	28.65	28.85	30.0	0.0
100	PC2	PC2	57	1	28.65	28.85	29.05	30.2	0.0
100	PC2	PC2	58	1	28.85	29.05	29.25	30.4	0.0
100	PC2	PC2	59	1	29.05	29.25	29.45	30.6	0.0
100	PC2	PC2	60	1	29.25	29.45	29.65	30.8	0.0
100	PC2	PC2	61	1	29.45	29.65	29.85	31.0	0.0
100	PC2	PC2	62	1	29.65	29.85	30.05	31.2	0.0
100	PC2	PC2	63	1	29.85	30.05	30.25	31.4	0.0
100	PC2	PC2	64	1	30.05	30.25	30.45	31.6	0.0
100	PC2	PC2	65	1	30.25	30.45	30.65	31.8	0.0
100	PC2	PC2	66	1	30.45	30.65	30.85	32.0	0.0
100	PC2	PC2	67	1	30.65	30.85	31.05	32.2	0.0
100	PC2	PC2	68	1	30.85	31.05	31.25	32.4	0.0
100	PC2	PC2	69	1	31.05	31.25	31.45	32.6	0.0
100	PC2	PC2	70	1	31.25	31.45	31.65	32.8	0.0
100	PC2	PC2	71	1	31.45	31.65	31.85	33.0	0.0
100	PC2	PC2	72	1	31.65	31.85	32.05	33.2	0.0
100	PC2	PC2	73	1	31.85	32.05	32.25	33.4	0.0
100	PC2	PC2	74	1	32.05	32.25	32.45	33.6	0.0
100	PC2	PC2	75	1	32.25	32.45	32.65	33.8	0.0
100	PC2	PC2	76	1	32.45	32.65	32.85	34.0	0.0
100	PC2	PC2	77	1	32.65	32.85	33.05	34.2	0.0
100	PC2	PC2	78	1	32.85	33.05	33.25	34.4	0.0
100	PC2	PC2	79	1	33.05	33.25	33.45	34.6	0.0
100	PC2	PC2	80	1	33.25	33.45	33.65	34.8	0.0
100	PC2	PC2	81	1	33.45	33.65	33.85	35.0	0.0
100	PC2	PC2	82	1	33.65	33.85	34.05	35.2	0.0
100	PC2	PC2	83	1	33.85	34.05	34.25	35.4	0.0
100	PC2	PC2	84	1	34.05	34.25	34.45	35.6	0.0
100	PC2	PC2	85	1	34.25	34.45	34.65	35.8	0.0
100	PC2	PC2	86	1	34.45	34.65	34.85	36.0	0.0
100	PC2	PC2	87	1	34.65	34.85	35.05	36.2	0.0
100	PC2	PC2	88	1	34.85	35.05	35.25	36.4	0.0
100	PC2	PC2	89	1	35.05	35.25	35.45	36.6	0.0
100	PC2	PC2	90	1	35.25	35.45	35.65	36.8	0.0
100	PC2	PC2	91	1	35.45	35.65	35.85	37.0	0.0
100	PC2	PC2	92	1	35.65	35.85	36.05	37.2	0.0
100	PC2	PC2	93	1	35.85	36.05	36.25	37.4	0.0
100	PC2	PC2	94	1	36.05	36.25	36.45	37.6	0.0
100	PC2	PC2	95	1	36.25	36.45	36.65	37.8	0.0
100	PC2	PC2	96	1	36.45	36.65	36.85	38.0	0.0
100	PC2	PC2	97	1	36.65	36.85	37.05	38.2	0.0
100	PC2	PC2	98	1	36.85	37.05	37.25	38.4	0.0
100	PC2	PC2	99	1	37.05	37.25	37.45	38.6	0.0
100	PC2	PC2	100	1	37.25	37.45	37.65	38.8	0.0
100	PC2	PC2	101	1	37.45	37.65	37.85	39.0	0.0
100	PC2	PC2	102	1	37.65	37.85	38.05	39.2	0.0
100	PC2	PC2	103	1	37.85	38.05	38.25	39.4	0.0
100	PC2	PC2	104	1	38.05	38.25	38.45	39.6	0.0
100	PC2	PC2	105	1	38.25	38.45	38.65	39.8	0.0
100	PC2	PC2	106	1	38.45	38.65	38.85	40.0	0.0
100	PC2	PC2	107	1	38.65	38.85	39.05	40.2	0.0
100	PC2	PC2	108	1	38.85	39.05	39.25	40.4	0.0
100	PC2	PC2	109	1	39.05	39.25	39.45	40.6	0.0
100	PC2	PC2	110	1	39.25	39.45	39.65	40.8	0.0
100	PC2	PC2	111	1	39.45	39.65	39.85	41.0	0.0
100	PC2	PC2	112	1	39.65	39.85	40.05	41.2	0.0
100	PC2	PC2	113	1	39.85	40.05	40.25	41.4	0.0
100	PC2	PC2	114	1	40.05	40.25	40.45	41.6	0.0
100	PC2	PC2	115	1	40.25	40.45	40.65	41.8	0.0
100	PC2	PC2	116	1	40.45	40.65	40.85	42.0	0.0
100	PC2	PC2	117	1	40.65	40.85	41.05	42.2	0.0
100	PC2	PC2	118	1	40.85	41.05	41.25	42.4	0.0
100	PC2	PC2	119	1	41.05	41.25	41.45	42.6	0.0
100	PC2	PC2	120	1	41.25	41.45	41.65	42.8	0.0
100	PC2	PC2	121	1	41.45	41.65	41.85	43.0	0.0
100	PC2	PC2	122	1	41.65	41.85	42.05	43.2	0.0
100	PC2	PC2	123	1	41.85	42.05	42.25	43.4	0.0
100	PC2	PC2	124	1	42.05	42.25	42.45	43.6	0.0
100	PC2	PC2	125	1	42.25	42.45	42.65	43.8	0.0
100	PC2	PC2	126	1	42.45	42.65	42.85	44.0	0.0
100	PC2	PC2	127	1	42.65	42.85	43.05	44.2	0.0
100	PC2	PC2	128	1	42.85	43.05	43.25	44.4	0.0
100	PC2	PC2	129	1	43.05	43.25	43.45	44.6	0.0
100	PC2	PC2	130	1	43.25	43.45	43.65	44.8	0.0
100	PC2	PC2	131	1	43.45	43.65	43.85	45.0	0.0
100	PC2	PC2	132	1	43.65	43.85	44.05	45.2	0.0
100	PC2	PC2	133	1	43.85	44.05	44.25	45.4	0.0
100	PC2	PC2	134	1	44.05	44.25	44.45	45.6	0.0
100	PC2	PC2	135	1	44.25	44.45	44.65	45.8	0.0
100	PC2	PC2	136	1	44.45	44.65	44.85	46.0	0.0
100	PC2	PC2	137	1	44.65	44.85	45.05	46.2	0.0
100	PC2	PC2	138	1	44.85	45.05	45.25	46.4	0.0
100	PC2	PC2	139	1	45.05	45.25	45.45	46.6	0.0
100	PC2	PC2	140	1	45.25	45.45	45.65	46.8	0.0
100	PC2	PC2	141	1	45.45	45.65	45.85	47.0	0.0
10									

Par27Q n78 Ant8 DS13									
File Path	Resolution	Channel	ROI	Offset	Start Time On/Off	Stop Time On/Off	Frame Rate [Hz]	Trigger Rate [Hz]	SNR
100	PIX 256x256	1	1	0	19.20	19.20			
100	PIX 256x256	1	1	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	2	0	19.20	19.20			
100	PIX 256x256	1	2	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	3	0	19.20	19.20			
100	PIX 256x256	1	3	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	4	0	19.20	19.20			
100	PIX 256x256	1	4	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	5	0	19.20	19.20			
100	PIX 256x256	1	5	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	6	0	19.20	19.20			
100	PIX 256x256	1	6	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	7	0	19.20	19.20			
100	PIX 256x256	1	7	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	8	0	19.20	19.20			
100	PIX 256x256	1	8	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	9	0	19.20	19.20			
100	PIX 256x256	1	9	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	10	0	19.20	19.20			
100	PIX 256x256	1	10	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	11	0	19.20	19.20			
100	PIX 256x256	1	11	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	12	0	19.20	19.20			
100	PIX 256x256	1	12	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	13	0	19.20	19.20			
100	PIX 256x256	1	13	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	14	0	19.20	19.20			
100	PIX 256x256	1	14	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	15	0	19.20	19.20			
100	PIX 256x256	1	15	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	16	0	19.20	19.20			
100	PIX 256x256	1	16	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	17	0	19.20	19.20			
100	PIX 256x256	1	17	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	18	0	19.20	19.20			
100	PIX 256x256	1	18	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	19	0	19.20	19.20			
100	PIX 256x256	1	19	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	20	0	19.20	19.20			
100	PIX 256x256	1	20	0	19.20	19.20		20.0	0.0
100	PIX 256x256	1	21	0	19.20	19.20			
100	PIX 256x256	1	21	0	19.20	19.20		20.0	0.0

[illegible]

[illegible]

n7 Ant 1 DS16									
Bit (MHz)	Modulation	RB Size	RB Count	Low Subcarrier Spectrum	High Subcarrier Spectrum	Power High Subcarrier	Power per RB (dBm)	Power per RB (dBm)	Power per RB (dBm)
Frequency (MHz)									
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.20	10.12	19.1	19.8	20.7	0.0
40	PSK-8PSK	108	108	10.20	10.12	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108	108	10.13	10.13	19.1			
40	PSK-8PSK	108	108	10.13	10.13	19.3	20.7	20.7	0.0
40	PSK-8PSK	108</							

n66 Ant 1 DS16									
RF (MHz)	Modulation	RF Rate	RF Ch. Offset	Power Low (dBm)	Power High (dBm)	Power High (dBm)	Power High (dBm)	Power High (dBm)	SNR (dB)
Channel									
				3400000	3400000	3400000	3400000	3400000	
40	PSK256QAM	1	0	18.61	18.68	18.61			
40	PSK256QAM	1	108	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	216	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	324	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	432	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	540	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	648	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	756	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	864	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	972	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	1080	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	1188	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	1296	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	1404	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	1512	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	1620	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	1728	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	1836	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	1944	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	2052	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	2160	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	2268	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	2376	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	2484	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	2592	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	2700	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	2808	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	2916	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	3024	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	3132	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	3240	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	3348	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	3456	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	3564	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	3672	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	3780	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	3888	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	3996	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	4104	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	4212	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	4320	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	4428	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	4536	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	4644	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	4752	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	4860	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	4968	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	5076	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	5184	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	5292	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	5400	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	5508	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	5616	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	5724	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	5832	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	5940	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	6048	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	6156	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	6264	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	6372	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	6480	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	6588	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	6696	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	6804	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	6912	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	7020	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	7128	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	7236	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	7344	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	7452	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	7560	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	7668	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	7776	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	7884	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	7992	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	8100	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	8208	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	8316	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	8424	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	8532	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	8640	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	8748	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	8856	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	8964	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	9072	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	9180	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	9288	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	9396	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	9504	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	9612	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	9720	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	9828	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	9936	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	10044	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	10152	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	10260	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	10368	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	10476	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	10584	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	10692	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	10800	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	10908	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	11016	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	11124	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	11232	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	11340	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	11448	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	11556	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	11664	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	11772	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	11880	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	11988	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	12096	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	12204	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	12312	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	12420	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	12528	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	12636	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	12744	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	12852	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	12960	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	13068	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	13176	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	13284	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	13392	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	13500	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	13608	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	13716	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	13824	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	13932	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	14040	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	14148	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	14256	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	14364	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	14472	18.63	18.56	18.54	21.0		0.0
40	PSK256QAM	1	14580	18.62	18.55	18.53	21.0		0.0
40	PSK256QAM	1	14688	18.					

n36 Ant1 D516									
Ref. [1]	Modulation	FE Size	FE Offset	Subcarriers	Subcarriers D516	Subcarriers D516	Power [dBm]	Power [dBm]	Power [dBm]
Channel									
40	PSK	1	0	18.75	18.81	18.87			
40	PSK	1	0	18.75	18.81	18.87	21.1	0.0	
40	PSK	1	0	18.75	18.81	18.87			
40	PSK	1	0	18.75	18.81	18.87	21.1	0.0	
40	PSK	16	26	18.85	18.95	19.05	21.1	0.0	
40	PSK	16	26	18.87	18.94	19.03	21.1	0.0	
40	QPSK	1	0	18.80	18.82	18.84			
40	QPSK	1	0	18.80	18.82	18.84	21.1	0.0	
40	QPSK	1	164	18.91	18.92	18.93			
40	QPSK	1	164	18.91	18.92	18.93	21.1	0.0	
40	QPSK	16	26	18.86	18.93	19.04	21.1	0.0	
40	QPSK	16	26	18.86	18.93	19.04	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1	0.0	
40	QPSK	16	0	18.82	18.87	18.92			
40	QPSK	16	0	18.82	18.87	18.92	21.1		

[illegible]

Part20 n70 Ant2 DS16									
Bit	Module	File Size	File Count	File Type	File Count	File Size	File Count	File Type	File Count
100	IP100-BS16	1	1	17331	17330	17329			
Frequency (MHz)									
100	IP100-BS16	1	1	17329	17328	17327	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17326			
100	IP100-BS16	1	231	17329	17328	17325			
100	IP100-BS16	1	231	17329	17328	17324	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17323			
100	IP100-BS16	1	231	17329	17328	17322	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17321			
100	IP100-BS16	1	231	17329	17328	17320	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17319			
100	IP100-BS16	1	231	17329	17328	17318	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17317			
100	IP100-BS16	1	231	17329	17328	17316	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17315			
100	IP100-BS16	1	231	17329	17328	17314	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17313			
100	IP100-BS16	1	231	17329	17328	17312	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17311			
100	IP100-BS16	1	231	17329	17328	17310	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17309			
100	IP100-BS16	1	231	17329	17328	17308	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17307			
100	IP100-BS16	1	231	17329	17328	17306	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17305			
100	IP100-BS16	1	231	17329	17328	17304	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17303			
100	IP100-BS16	1	231	17329	17328	17302	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17301			
100	IP100-BS16	1	231	17329	17328	17300	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17299			
100	IP100-BS16	1	231	17329	17328	17298	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17297			
100	IP100-BS16	1	231	17329	17328	17296	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17295			
100	IP100-BS16	1	231	17329	17328	17294	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17293			
100	IP100-BS16	1	231	17329	17328	17292	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17291			
100	IP100-BS16	1	231	17329	17328	17290	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17289			
100	IP100-BS16	1	231	17329	17328	17288	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17287			
100	IP100-BS16	1	231	17329	17328	17286	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17285			
100	IP100-BS16	1	231	17329	17328	17284	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17283			
100	IP100-BS16	1	231	17329	17328	17282	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17281			
100	IP100-BS16	1	231	17329	17328	17280	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17279			
100	IP100-BS16	1	231	17329	17328	17278	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17277			
100	IP100-BS16	1	231	17329	17328	17276	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17275			
100	IP100-BS16	1	231	17329	17328	17274	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17273			
100	IP100-BS16	1	231	17329	17328	17272	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17271			
100	IP100-BS16	1	231	17329	17328	17270	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17269			
100	IP100-BS16	1	231	17329	17328	17268	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17267			
100	IP100-BS16	1	231	17329	17328	17266	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17265			
100	IP100-BS16	1	231	17329	17328	17264	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17263			
100	IP100-BS16	1	231	17329	17328	17262	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17261			
100	IP100-BS16	1	231	17329	17328	17260	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17259			
100	IP100-BS16	1	231	17329	17328	17258	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17257			
100	IP100-BS16	1	231	17329	17328	17256	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17255			
100	IP100-BS16	1	231	17329	17328	17254	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17253			
100	IP100-BS16	1	231	17329	17328	17252	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17251			
100	IP100-BS16	1	231	17329	17328	17250	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17249			
100	IP100-BS16	1	231	17329	17328	17248	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17247			
100	IP100-BS16	1	231	17329	17328	17246	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17245			
100	IP100-BS16	1	231	17329	17328	17244	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17243			
100	IP100-BS16	1	231	17329	17328	17242	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17241			
100	IP100-BS16	1	231	17329	17328	17240	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17239			
100	IP100-BS16	1	231	17329	17328	17238	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17237			
100	IP100-BS16	1	231	17329	17328	17236	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17235			
100	IP100-BS16	1	231	17329	17328	17234	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17233			
100	IP100-BS16	1	231	17329	17328	17232	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17231			
100	IP100-BS16	1	231	17329	17328	17230	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17229			
100	IP100-BS16	1	231	17329	17328	17228	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17227			
100	IP100-BS16	1	231	17329	17328	17226	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17225			
100	IP100-BS16	1	231	17329	17328	17224	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17223			
100	IP100-BS16	1	231	17329	17328	17222	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17221			
100	IP100-BS16	1	231	17329	17328	17220	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17219			
100	IP100-BS16	1	231	17329	17328	17218	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17217			
100	IP100-BS16	1	231	17329	17328	17216	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17215			
100	IP100-BS16	1	231	17329	17328	17214	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17213			
100	IP100-BS16	1	231	17329	17328	17212	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17211			
100	IP100-BS16	1	231	17329	17328	17210	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17209			
100	IP100-BS16	1	231	17329	17328	17208	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17207			
100	IP100-BS16	1	231	17329	17328	17206	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17205			
100	IP100-BS16	1	231	17329	17328	17204	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17203			
100	IP100-BS16	1	231	17329	17328	17202	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17201			
100	IP100-BS16	1	231	17329	17328	17200	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17199			
100	IP100-BS16	1	231	17329	17328	17198	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17197			
100	IP100-BS16	1	231	17329	17328	17196	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17195			
100	IP100-BS16	1	231	17329	17328	17194	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17193			
100	IP100-BS16	1	231	17329	17328	17192	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17191			
100	IP100-BS16	1	231	17329	17328	17190	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17189			
100	IP100-BS16	1	231	17329	17328	17188	1830	0.5	
100	IP100-BS16	1	231	17329	17328	17187			
100	IP100-BS16	1	231	17329	17328	17186	1830	0.5	
100	IP100-BS16	1	231	17329	173				



Part27Q n78 PC2&3 Ant2 DSI6									
EV (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. 1 (Fem)	Power Level Ch. 2 (Fem)	Power Level Ch. 3 (Fem)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
180	P12 BPSK	1	1	17.71			18.0	0.0	
180	P12 BPSK	1	107	17.62					
180	P12 BPSK	1	211	17.79					
180	P12 BPSK	1	315	17.71					
180	P12 BPSK	1	419	17.77					
180	P12 BPSK	1	523	17.81			18.0	0.0	
180	P12 BPSK	1	627	17.85					
180	QPSK	1	1	17.79					
180	QPSK	1	107	17.79					
180	QPSK	1	211	17.79					
180	QPSK	1	315	17.79			18.0	0.0	
180	QPSK	1	419	17.79					
180	QPSK	1	523	17.79					
180	QPSK	1	627	17.80					
180	QPSK	1	731	17.80					
180	QPSK	1	835	17.80			18.0	0.0	
180	QPSK	1	939	17.80					
180	QPSK	1	1043	17.80					
180	QPSK	1	1147	17.80					
180	QPSK	1	1251	17.80					
180	QPSK	1	1355	17.80			18.0	0.0	
180	QPSK	1	1459	17.80					
180	QPSK	1	1563	17.80					
180	QPSK	1	1667	17.80					
180	QPSK	1	1771	17.80					
180	QPSK	1	1875	17.80			18.0	0.0	
180	QPSK	1	1979	17.80					
180	QPSK	1	2083	17.80					
180	QPSK	1	2187	17.80					
180	QPSK	1	2291	17.80					
180	QPSK	1	2395	17.80			18.0	0.0	
180	QPSK	1	2499	17.80					
180	QPSK	1	2603	17.80					
180	QPSK	1	2707	17.80					
180	QPSK	1	2811	17.80					
180	QPSK	1	2915	17.80			18.0	0.0	
180	QPSK	1	3019	17.80					
180	QPSK	1	3123	17.80					
180	QPSK	1	3227	17.80					
180	QPSK	1	3331	17.80					
180	QPSK	1	3435	17.80			18.0	0.0	
180	QPSK	1	3539	17.80					
180	QPSK	1	3643	17.80					
180	QPSK	1	3747	17.80					
180	QPSK	1	3851	17.80					
180	QPSK	1	3955	17.80			18.0	0.0	
180	QPSK	1	4059	17.80					
180	QPSK	1	4163	17.80					
180	QPSK	1	4267	17.80					
180	QPSK	1	4371	17.80					
180	QPSK	1	4475	17.80			18.0	0.0	
180	QPSK	1	4579	17.80					
180	QPSK	1	4683	17.80					
180	QPSK	1	4787	17.80					
180	QPSK	1	4891	17.80					
180	QPSK	1	4995	17.80			18.0	0.0	
180	QPSK	1	5099	17.80					
180	QPSK	1	5203	17.80					
180	QPSK	1	5307	17.80					
180	QPSK	1	5411	17.80					
180	QPSK	1	5515	17.80			18.0	0.0	
180	QPSK	1	5619	17.80					
180	QPSK	1	5723	17.80					
180	QPSK	1	5827	17.80					
180	QPSK	1	5931	17.80					
180	QPSK	1	6035	17.80			18.0	0.0	
180	QPSK	1	6139	17.80					
180	QPSK	1	6243	17.80					
180	QPSK	1	6347	17.80					
180	QPSK	1	6451	17.80					
180	QPSK	1	6555	17.80			18.0	0.0	
180	QPSK	1	6659	17.80					
180	QPSK	1	6763	17.80					
180	QPSK	1	6867	17.80					
180	QPSK	1	6971	17.80					
180	QPSK	1	7075	17.80			18.0	0.0	
180	QPSK	1	7179	17.80					
180	QPSK	1	7283	17.80					
180	QPSK	1	7387	17.80					
180	QPSK	1	7491	17.80					
180	QPSK	1	7595	17.80			18.0	0.0	
180	QPSK	1	7699	17.80					
180	QPSK	1	7803	17.80					
180	QPSK	1	7907	17.80					
180	QPSK	1	8011	17.80					
180	QPSK	1	8115	17.80			18.0	0.0	
180	QPSK	1	8219	17.80					
180	QPSK	1	8323	17.80					
180	QPSK	1	8427	17.80					
180	QPSK	1	8531	17.80					
180	QPSK	1	8635	17.80			18.0	0.0	
180	QPSK	1	8739	17.80					
180	QPSK	1	8843	17.80					
180	QPSK	1	8947	17.80					
180	QPSK	1	9051	17.80					
180	QPSK	1	9155	17.80			18.0	0.0	
180	QPSK	1	9259	17.80					
180	QPSK	1	9363	17.80					
180	QPSK	1	9467	17.80					
180	QPSK	1	9571	17.80					
180	QPSK	1	9675	17.80			18.0	0.0	
180	QPSK	1	9779	17.80					
180	QPSK	1	9883	17.80					
180	QPSK	1	9987	17.80					
180	QPSK	1	10091	17.80					
180	QPSK	1	10195	17.80			18.0	0.0	
180	QPSK	1	10299	17.80					
180	QPSK	1	10403	17.80					
180	QPSK	1	10507	17.80					
180	QPSK	1	10611	17.80					
180	QPSK	1	10715	17.80			18.0	0.0	
180	QPSK	1	10819	17.80					
180	QPSK	1	10923	17.80					
180	QPSK	1	11027	17.80					
180	QPSK	1	11131	17.80					
180	QPSK	1	11235	17.80			18.0	0.0	
180	QPSK	1	11339	17.80					
180	QPSK	1	11443	17.80					
180	QPSK	1	11547	17.80					
180	QPSK	1	11651	17.80					
180	QPSK	1	11755	17.80			18.0	0.0	
180	QPSK	1	11859	17.80					
180	QPSK	1	11963	17.80					
180	QPSK	1	12067	17.80					
180	QPSK	1	12171	17.80					
180	QPSK	1	12275	17.80			18.0	0.0	
180	QPSK	1	12379	17.80					
180	QPSK	1	12483	17.80					
180	QPSK	1	12587	17.80					
180	QPSK	1	12691	17.80					
180	QPSK	1	12795	17.80			18.0	0.0	
180	QPSK	1	12899	17.80					
180	QPSK	1	13003	17.80					
180	QPSK	1	13107	17.80					
180	QPSK	1	13211	17.80					
180	QPSK	1	13315	17.80			18.0	0.0	
180	QPSK	1	13419	17.80					
180	QPSK	1	13523	17.80					
180	QPSK	1	13627	17.80					
180	QPSK	1	13731	17.80					
180	QPSK	1	13835	17.80			18.0	0.0	
180	QPSK	1	13939	17.80					
180	QPSK	1	14043	17.80					
180	QPSK	1	14147	17.80					
180	QPSK	1	14251	17.80					
180	QPSK	1	14355	17.80			18.0	0.0	
180	QPSK	1	14459	17.80					
180	QPSK	1	14563	17.80					
180	QPSK	1	14667	17.80					
180	QPSK	1	14771	17.80					
180	QPSK	1	14875	17.80			18.0	0.0	
180	QPSK	1	14979	17.80					
180	QPSK	1	15083	17.80					
180	QPSK	1	15187	17.80					
180	QPSK	1	15291	17.80					
180	QPSK	1	15395	17.80			18.0	0.0	
180	QPSK	1	15499	17.80					
180	QPSK	1	15603	17.80					
180	QPSK	1	15707	17.80					
180	QPSK	1	15811	17.80					
180	QPSK	1	15915	17.80			18.0	0.0	
180	QPSK	1	16019	17.80					
180	QPSK	1	16123	17.80					
180	QPSK	1	16227	17.80					
180	QPSK	1	16331	17.80					
180	QPSK	1	16435	17.80			18.0	0.0	
180	QPSK	1	16539	17.80					
180	QPSK	1	16643	17.80					
180	QPSK	1	16747	17.80					
180	QPSK	1	16851	17.80					
180	QPSK	1	16955	17.80			18.0	0.0	
180	QPSK	1	17059	17.80					
180	QPSK	1	17163	17.80					
180	QPSK	1	17267	17.80					
180	QPSK	1	17371	17.80					
180	QPSK	1	17475	17.80			18.0	0.0	
180	QPSK	1	17579	17.80					
180	QPSK	1	17683	17.80					
180	QPSK	1	17787	17.80					
180	QPSK	1	17891	17.80					
180	QPSK	1	17995	17.80			18.0	0.0	
180	QPSK	1	18099	17.80					
180	QPSK	1	18203	17.80					
180	QPSK	1	18307	17.80					
180	QPSK	1	18411	17.80					
180	QPSK	1	18515	17.80			18.0	0.0	
180	QPSK	1	18619	17.80					
180	QPSK	1	18723	17.80					
180	QPSK	1	18827	17.80					
180	QPSK	1	18931	17.80					
180	QPSK	1	19035	17.80			18.0	0.0	
180	QPSK	1	19139	17.80					
180	QPSK	1	19243	17.80					
180	QPSK	1	19347	17.80					
180	QPSK	1	19451	17.80					
180	QPSK	1	19555	17.80			18.0	0.0	
180	QPSK	1	19659	17.80					
180	QPSK	1	19763	17.80					
180	QPSK	1	19867	17.80					
180	QPSK	1	19971	17.80					
180	QPSK	1	20075	17.80			18.0	0.0	
180	QPSK	1	20179	17.80					
180	QPSK	1	20283	17.80					
180	QPSK								

Part27Q n78 PC2&3 Ant7									
REV (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	20.84				22.5	0.0
100	P12 BPSK	1	107	20.82					
100	P12 BPSK	1	211	20.45				22.5	0.0
100	P12 BPSK	100	0	20.70				22.5	0.0
100	P12 BPSK	100	60	20.51				22.5	0.0
100	P12 BPSK	210	0	20.42				22.5	0.0
100	QPSK	1	1	20.79					
100	QPSK	1	107	20.85				22.5	0.0
100	QPSK	1	211	20.82					
100	QPSK	100	0	20.45				22.5	0.0
100	QPSK	100	60	20.46				22.5	0.0
100	QPSK	100	100	20.70				22.5	0.0
100	QPSK	210	0	20.52				22.5	0.0
100	4QAM	1	1	20.70				22.5	0.0
100	4QAM	1	1	20.85				22.5	0.0
100	25QAM	1	1	20.80				22.5	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.54	20.46	20.52	22.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.52	20.44	20.48	22.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.42	20.44	20.48	22.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	

Part27O n78 PC2&3 Ant7									
REV (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	20.80				22.5	0.0
100	P12 BPSK	1	107	20.84					
100	P12 BPSK	1	211	20.29				22.5	0.0
100	P12 BPSK	100	0	20.21				22.5	0.0
100	P12 BPSK	100	60	20.20				22.5	0.0
100	P12 BPSK	100	100	20.24				22.5	0.0
100	P12 BPSK	210	0	20.23				22.5	0.0
100	QPSK	1	1	20.80					
100	QPSK	1	107	20.85				22.5	0.0
100	QPSK	1	211	20.25				22.5	0.0
100	QPSK	100	0	20.25				22.5	0.0
100	QPSK	100	60	20.20				22.5	0.0
100	QPSK	100	100	20.24				22.5	0.0
100	QPSK	210	0	20.20				22.5	0.0
100	4QAM	1	1	20.24				22.5	0.0
100	4QAM	1	1	20.20				22.5	0.0
100	25QAM	1	1	20.20				22.5	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.21	20.44	20.40	22.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.20	20.44	20.48	22.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.51	20.45	20.49	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.48	20.50	20.50	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.50	20.46	20.54	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.50	20.46	20.48	22.5	0.0	

Part27Q n78 Ant8 DS16									
REV (MHz)	Modulation	RF Size	RF Offset	Power Type Ch. 1 (Fmax)	Power Type Ch. 2 (Fmax)	Power Type Ch. 3 (Fmax)	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	21.86				22.0	0.0
100	P12 BPSK	1	107	22.24					
100	P12 BPSK	1	211	22.02				22.0	0.0
100	P12 BPSK	100	0	22.01				22.0	0.0
100	P12 BPSK	100	60	21.88				22.0	0.0
100	P12 BPSK	100	100	22.06				22.0	0.0
100	P12 BPSK	210	0	21.86				22.0	0.0
100	QPSK	1	1	22.00					
100	QPSK	1	107	22.14				22.0	0.0
100	QPSK	1	211	21.87				22.0	0.0
100	QPSK	100	0	21.87				22.0	0.0
100	QPSK	100	60	21.86				22.0	0.0
100	QPSK	100	100	22.06				22.0	0.0
100	QPSK	210	0	21.87				22.0	0.0
100	4QAM	1	1	21.86				22.0	0.0
100	4QAM	1	1	22.00				22.0	0.0
100	25QAM	1	1	21.86				22.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.02	22.02	22.02	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.94	22.12	21.94	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.96	21.96	21.96	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.96	21.96	21.96	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.00	22.00	22.00	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.00	22.00	22.00	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.00	22.00	22.00	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.00	22.00	22.00	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.00	22.00	22.00	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.88	22.00	21.88	22.0	0.0	

Part27O n78 Ant8 DS16		
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n7 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				2520	2535	2550	18.3	0.0	
Frequency (MHz)				504000	507000	510000			
40	PI/2 BPSK	1	1	17.04	17.10	17.09	18.3	0.0	
40	PI/2 BPSK	1	108	17.13	17.03	17.14			
40	PI/2 BPSK	1	214	17.14	17.03	17.05			
40	PI/2 BPSK	108	0	17.13	17.05	17.03			
40	PI/2 BPSK	108	54	17.04	17.05	17.06	18.3	0.0	
40	PI/2 BPSK	108	108	17.12	17.01	17.14	18.3	0.0	
40	PI/2 BPSK	216	0	17.14	17.12	17.11			
40	QPSK	1	1	17.07	17.23	17.14	18.3	0.0	
40	QPSK	1	108	17.12	17.02	17.04			
40	QPSK	1	214	17.14	17.06	17.00			
40	QPSK	108	0	17.04	17.11	17.04		0.0	
40	QPSK	108	54	17.05	17.15	17.12	18.3	0.0	
40	QPSK	108	108	17.11	17.11	17.05	18.3	0.0	
40	QPSK	216	0	17.07	17.11	17.09			
40	16QAM	1	1	17.00	17.05	17.10	18.3	0.0	
40	64QAM	1	1	17.05	17.12	17.00	18.3	0.0	
40	256QAM	1	1	17.07	17.02	17.02	18.3	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	18.3	0.0	
30	QPSK	1	1	16.85	17.11	16.93			
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	18.3	0.0	
25	QPSK	1	1	16.80	17.15	17.05			
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	18.3	0.0	
20	QPSK	1	1	16.96	17.02	16.91			
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	18.3	0.0	
15	QPSK	1	1	16.88	17.02	17.08			
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	18.3	0.0	
10	QPSK	1	1	16.89	17.02	16.93			
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	18.3	0.0	
5	QPSK	1	1	16.95	17.12	17.08			

n66 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				348000	349000	352000	16.4	0.0	
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	15.06	15.17	15.08	16.4	0.0	
40	PI/2 BPSK	1	108	15.13	15.13	15.13			
40	PI/2 BPSK	1	214	15.18	15.17	15.15			
40	PI/2 BPSK	108	0	15.11	15.09	15.12			
40	PI/2 BPSK	108	54	15.18	15.17	15.08	16.4	0.0	
40	PI/2 BPSK	108	108	15.18	15.06	15.21		0.0	
40	PI/2 BPSK	216	0	15.12	15.10	15.07	16.4	0.0	
40	QPSK	1	1	15.20	15.29	15.07			
40	QPSK	1	108	15.20	15.11	15.12			
40	QPSK	1	214	15.18	15.16	15.16			
40	QPSK	108	0	15.11	15.13	15.12	16.4	0.0	
40	QPSK	108	54	15.09	15.14	15.11		0.0	
40	QPSK	108	108	15.11	15.09	15.09	16.4	0.0	
40	QPSK	216	0	15.11	15.19	15.14		0.0	
40	16QAM	1	1	15.19	15.18	15.15	16.4	0.0	
40	64QAM	1	1	15.15	15.15	15.13	16.4	0.0	
40	256QAM	1	1	15.10	15.21	15.16	16.4	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765	16.4	0.0	
30	QPSK	1	1	15.04	15.16	14.91			
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770	16.4	0.0	
20	QPSK	1	1	15.04	15.08	14.94			
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5	16.4	0.0	
15	QPSK	1	1	15.08	15.19	14.86			
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775	16.4	0.0	
10	QPSK	1	1	15.08	15.15	14.91			
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5	16.4	0.0	
5	QPSK	1	1	15.09	15.18	14.93			

n38 Ant1 DS12 Simultaneous							
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minima Ch. [Frac.]	Power High Ch. [Frac.]	
Channel							
Frequency [MHz]							
40	P12-BPSK	1	1	18.58	18.60	18.62	
40	P12-BPSK	1	53	18.59	18.58	18.48	17.8
40	P12-BPSK	1	104	18.60	18.51	18.51	
40	P12-BPSK	30	0	18.57	18.57	18.53	17.9
40	P12-BPSK	30	20	18.60	18.56	18.50	17.9
40	P12-BPSK	30	50	18.51	18.58	18.50	17.9
40	P12-BPSK	100	0	18.55	18.55	18.49	
40	QPSK	1	1	18.59	18.55	18.51	
40	QPSK	1	53	18.59	18.54	18.50	17.8
40	QPSK	1	104	18.55	18.55	18.50	
40	QPSK	30	0	18.53	18.57	18.60	17.9
40	QPSK	30	20	18.51	18.56	18.46	17.9
40	QPSK	30	50	18.50	18.51	18.58	17.9
40	QPSK	100	0	18.55	18.51	18.58	
40	16QAM	1	1	18.55	18.56	18.52	17.9
40	16QAM	1	1	18.60	18.52	18.61	17.9
40	16QAM	1	1	18.61	18.49	18.58	17.9
Channel							
Frequency [MHz]							
50	QPSK	1	1	18.40	18.55	18.20	17.6
Channel							
Frequency [MHz]							
20	QPSK	1	1	18.40	18.50	18.35	17.9
Channel							
Frequency [MHz]							
15	QPSK	1	1	18.45	18.60	18.34	17.7
Channel							
Frequency [MHz]							
10	QPSK	1	1	18.50	18.58	18.37	17.9

Par27Q n77 Ant2 DS12 Simultaneous							
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minima Ch. [Frac.]	Power High Ch. [Frac.]	
Channel							
Frequency [MHz]							
100	P12-BPSK	1	1		18.83		
100	P12-BPSK	1	137		18.78		20.4
100	P12-BPSK	1	271		18.85		
100	P12-BPSK	100	0		18.79		20.4
100	P12-BPSK	100	60		18.89		20.4
100	P12-BPSK	100	136		18.80		20.4
100	P12-BPSK	270	0		18.78		
100	QPSK	1	1		18.85		
100	QPSK	1	137		18.83		20.4
100	QPSK	1	271		18.80		
100	QPSK	100	0		18.78		20.4
100	QPSK	100	60		18.86		20.4
100	QPSK	100	136		18.83		20.4
100	QPSK	270	0		18.77		
100	16QAM	1	1		18.87		20.4
100	16QAM	1	1		18.85		20.4
100	16QAM	1	1		18.90		18.8
Channel							
Frequency [MHz]							
90	QPSK	1	1	18.51	18.83	18.50	0.0
Channel							
Frequency [MHz]							
80	QPSK	1	1	18.63	18.80	18.67	0.0
Channel							
Frequency [MHz]							
70	QPSK	1	1	18.70	18.68	18.64	0.0
Channel							
Frequency [MHz]							
60	QPSK	1	1	18.80	18.55	18.63	0.0
Channel							
Frequency [MHz]							
50	QPSK	1	1	18.68	18.81	18.65	0.0
Channel							
Frequency [MHz]							
40	QPSK	1	1	18.69	18.61	18.61	0.0
Channel							
Frequency [MHz]							
30	QPSK	1	1	18.60	18.69	18.62	0.0
Channel							
Frequency [MHz]							
20	QPSK	1	1	18.60	18.55	18.70	0.0

Part27O n77 Ant2 DS12 Simultaneous							
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minima Ch. [Frac.]	Power High Ch. [Frac.]	
Channel							
Frequency [MHz]							
100	P12-BPSK	1	1	18.38	18.31	18.31	
100	P12-BPSK	1	137	18.20	18.29	18.30	20.4
100	P12-BPSK	1	271	18.22	18.21	18.20	
100	P12-BPSK	100	0	18.24	18.19	18.13	20.4
100	P12-BPSK	100	60	18.21	18.22	18.20	20.4
100	P12-BPSK	100	136	18.19	18.27	18.19	20.4
100	P12-BPSK	270	0	18.26	18.22	18.26	
100	QPSK	1	1	18.20	18.20	18.20	
100	QPSK	1	137	18.19	18.19	18.20	20.4
100	QPSK	1	271	18.20	18.20	18.24	
100	QPSK	100	0	18.26	18.22	18.28	20.4
100	QPSK	100	60	18.24	18.21	18.20	20.4
100	QPSK	100	136	18.20	18.18	18.18	20.4
100	QPSK	270	0	18.19	18.26	18.21	
100	16QAM	1	1	18.23	18.25	18.21	20.4
100	16QAM	1	1	18.87	18.21	18.02	20.4
100	16QAM	1	1	18.12	18.18	17.92	18.8
Channel							
Frequency [MHz]							
90	QPSK	1	1	18.40	18.50	18.20	17.6
Channel							
Frequency [MHz]							
80	QPSK	1	1	18.40	18.50	18.35	17.9
Channel							
Frequency [MHz]							
70	QPSK	1	1	18.45	18.60	18.34	17.7
Channel							
Frequency [MHz]							
60	QPSK	1	1	18.50	18.58	18.37	17.9

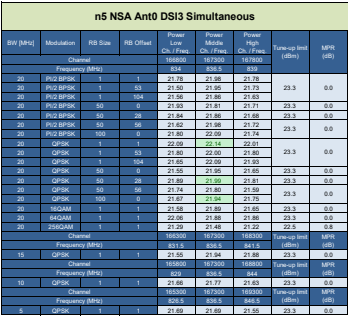


Part27Q n78 Ant2 DS12 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 [Frac]	Power Max Ch.1 [Frac]	Power High Ch.1 [Frac]	Turn-up time (dBm)	MPS (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1	19.92					
100	PSSBPSK	1	137	19.93			20.4	0.0	
100	PSSBPSK	1	271	19.93					
100	PSSBPSK	135	0	19.99			20.4	0.0	
100	PSSBPSK	135	40	19.99			20.4	0.0	
100	PSSBPSK	135	136	19.99			20.4	0.0	
100	PSSBPSK	270	0	19.99					
100	QPSK	1	1	20.00					
100	QPSK	1	137	19.99			20.4	0.0	
100	QPSK	1	271	19.97					
100	QPSK	135	0	19.94			20.4	0.0	
100	QPSK	135	40	19.97			20.4	0.0	
100	QPSK	135	136	19.97			20.4	0.0	
100	QPSK	270	0	19.99					
100	SSBQAM	1	1	19.79			20.4	0.0	
100	SSBQAM	1	1	19.98			20.4	0.0	
100	SSBQAM	1	1	19.99			20.4	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	19.70	19.75	19.81	20.4	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	19.74	19.80	19.86	20.4	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	19.73	19.79	19.84	20.4	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	19.70	19.72	19.74	20.4	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	19.60	19.72	19.82	20.4	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	19.72	19.74	19.82	20.4	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	19.74	19.76	19.82	20.4	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	19.80	19.78	19.81	20.4	0.0	

Part27Q n78 PC2&3 Ant2 DS12 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 [Frac]	Power Max Ch.1 [Frac]	Power High Ch.1 [Frac]	Turn-up time (dBm)	MPS (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1	19.89					
100	PSSBPSK	1	137	19.93			20.4	0.0	
100	PSSBPSK	1	271	19.93					
100	PSSBPSK	135	0	19.87			20.4	0.0	
100	PSSBPSK	135	40	19.93			20.4	0.0	
100	PSSBPSK	135	136	19.49			20.4	0.0	
100	PSSBPSK	270	0	19.84					
100	QPSK	1	1	19.77					
100	QPSK	1	137	19.85			20.4	0.0	
100	QPSK	1	271	19.53					
100	QPSK	135	0	19.49			20.4	0.0	
100	QPSK	135	40	19.49			20.4	0.0	
100	QPSK	135	136	19.44			20.4	0.0	
100	QPSK	270	0	19.82			20.4	0.0	
100	SSBQAM	1	1	19.52			20.4	0.0	
100	SSBQAM	1	1	19.48			20.4	0.0	
100	SSBQAM	1	1	19.46			20.4	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	19.34	19.39	19.34	20.4	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	19.49	19.41	19.47	20.4	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	19.39	19.48	19.47	20.4	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	19.42	19.38	19.40	20.4	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	19.34	19.40	19.39	20.4	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	19.33	19.40	19.43	20.4	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	19.47	19.38	19.39	20.4	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	19.36	19.44	19.47	20.4	0.0	

Part27Q n78 PC2&3 Ant8 DS12 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 [Frac]	Power Max Ch.1 [Frac]	Power High Ch.1 [Frac]	Turn-up time (dBm)	MPS (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1	21.96					
100	PSSBPSK	1	137	22.04			22.9	0.0	
100	PSSBPSK	1	271	22.02					
100	PSSBPSK	135	0	22.07			22.9	0.0	
100	PSSBPSK	135	40	21.99			22.9	0.0	
100	PSSBPSK	135	136	21.98			22.9	0.0	
100	PSSBPSK	270	0	21.96					
100	QPSK	1	1	22.05					
100	QPSK	1	137	22.14			22.9	0.0	
100	QPSK	1	271	22.05					
100	QPSK	135	0	22.07			22.9	0.0	
100	QPSK	135	40	22.06			22.9	0.0	
100	QPSK	135	136	21.96			22.9	0.0	
100	QPSK	270	0	21.97			22.9	0.0	
100	SSBQAM	1	1	21.86			22.9	0.0	
100	SSBQAM	1	1	22.18			22.9	0.0	
100	SSBQAM	1	1	21.86			22.9	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	22.03	22.05	22.02	22.9	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	21.99	22.13	21.90	22.9	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	21.90	22.09	21.87	22.9	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	22.00	22.18	21.79	22.9	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	21.95	21.98	21.91	22.9	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	21.93	22.11	21.80	22.9	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	21.87	22.08	21.87	22.9	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	21.98	22.12	21.87	22.9	0.0	

Part27Q n78 Ant8 DS12 Simultaneous									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 [Frac]	Power Max Ch.1 [Frac]	Power High Ch.1 [Frac]	Turn-up time (dBm)	MPS (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1	21.84			22.9	0.0	
100	PSSBPSK	1	137	21.92					
100	PSSBPSK	1	271	21.92			22.9	0.0	
100	PSSBPSK	135	0	21.73			22.9	0.0	
100	PSSBPSK	135	40	21.82			22.9	0.0	
100	PSSBPSK	135	136	21.85			22.9	0.0	
100	PSSBPSK	270	0	21.82			22.9	0.0	
100	QPSK	1	137	21.98			22.9	0.0	
100	QPSK	1	271	21.98			22.9	0.0	
100	QPSK	135	0	21.77			22.9	0.0	
100	QPSK	135	40	21.82			22.9	0.0	
100	QPSK	135	136	21.85			22.9	0.0	
100	QPSK	270	0	21.81			22.9	0.0	
100	SSBQAM	1	137	21.97			22.9	0.0	
100	SSBQAM	1	271	21.95			22.9	0.0	
100	SSBQAM	135	0	21.76			22.9	0.0	
Channel									
100	QPSK	1	137	90.6866	90.6866	90.6834	Turn-up time	MPS	
50	QPSK	1	1	21.80	21.83	21.85	22.9	0.0	
50	QPSK	1	137	90.6834	90.6866	90.6868	Turn-up time	MPS	
50	QPSK	1	271	90.6866	90.6834	90.6834	Turn-up time	MPS	
50	QPSK	1	1	21.94	21.76	21.77	22.9	0.0	
50	QPSK	1	137	21.94	21.76	21.77	22.9	0.0	
50	QPSK	1	271	21.94	21.76	21.77	22.9	0.0	
50	QPSK	1	137	91.5	91.5	91.5	Turn-up time	MPS	
50	QPSK	1	271	91.5	91.5	91.5	Turn-up time	MPS	
50	QPSK	1	137	21.95	21.77	21.78	22.9	0.0	
50	QPSK	1	271	21.95	21.77	21.78	22.9	0.0	
50	QPSK	1	137	91.52	91.53	91.53	Turn-up time	MPS	
50	QPSK	1	271	91.52	91.53	91.53	Turn-up time	MPS	
50	QPSK	1	137	21.92	21.53	21.79	22.9	0.0	
50	QPSK	1	271	21.92	21.53	21.79	22.9	0.0	
50	QPSK	1	137	91.52	91.53	91.53	Turn-up time	MPS	
50	QPSK	1	271	91.52	91.53	91.53	Turn-up time	MPS	
50	QPSK	1	137	21.81	21.24	21.75	22.9	0.0	
50	QPSK	1	271	21.81	21.24	21.75	22.9	0.0	
50	QPSK	1	137	91.52	91.52	91.52	Turn-up time	MPS	
50	QPSK	1	271	91.52	91.52	91.52	Turn-up time	MPS	
50	QPSK	1	137	21.87	21.24	21.75	22.9	0.0	
50	QPSK	1	271	21.87	21.24	21.75	22.9	0.0	
50	QPSK	1	137	91.54	91.54	91.54	Turn-up time	MPS	
50	QPSK	1	271	91.54	91.54	91.54	Turn-up time	MPS	
50	QPSK	1	137	21.79	21.71	21.91	22.9	0.0	
50	QPSK	1	271	21.79	21.71	21.91	22.9	0.0	



n7 AN0 DS13 Simultaneous							
Bit (pin)	Module	HS line	HS Offset	Source Tidwell Tidwell Tidwell	Source Mann Mann Mann	Source High High High	Notes on pin usage
40	PID BSRPC	1	146	14.46	14.52	14.56	
40	PID BSRPC	1	156	14.48	14.53	14.53	15.1
40	PID BSRPC	2	146	14.46	14.52	14.56	
40	PID BSRPC	108	146	14.32	14.42	14.53	
40	PID BSRPC	108	156	14.48	14.53	14.53	15.1
40	PID BSRPC	108	168	14.31	14.41	14.51	15.0
40	PID BSRPC	216	146	14.46	14.52	14.56	
40	OPRSC	1	146	14.46	14.53	14.58	
40	OPRSC	1	156	14.47	14.53	14.53	15.1
40	OPRSC	2	146	14.46	14.52	14.56	
40	OPRSC	108	146	14.32	14.44	14.52	15.0
40	OPRSC	108	156	14.48	14.53	14.53	15.1
40	OPRSC	108	168	14.33	14.43	14.52	15.0
40	OPRSC	216	146	14.46	14.52	14.56	
40	OPRSC	216	156	14.44	14.52	14.52	15.1
40	OPRSC	216	168	14.33	14.47	14.52	15.0
40	OPRSC	216	178	14.48	14.48	14.58	15.1
40	OPRSC	216	188	14.44	14.52	14.52	15.1
40	OPRSC	216	198	14.44	14.52	14.52	15.1
40	OPRSC	216	208	14.44	14.52	14.52	15.1
40	OPRSC	216	218	14.44	14.52	14.52	15.1
40	OPRSC	216	228	14.44	14.52	14.52	15.1
40	OPRSC	216	238	14.44	14.52	14.52	15.1
40	OPRSC	216	248	14.44	14.52	14.52	15.1
40	OPRSC	216	258	14.44	14.52	14.52	15.1
40	OPRSC	216	268	14.44	14.52	14.52	15.1
40	OPRSC	216	278	14.44	14.52	14.52	15.1
40	OPRSC	216	288	14.44	14.52	14.52	15.1
40	OPRSC	216	298	14.44	14.52	14.52	15.1
40	OPRSC	216	308	14.44	14.52	14.52	15.1
40	OPRSC	216	318	14.44	14.52	14.52	15.1
40	OPRSC	216	328	14.44	14.52	14.52	15.1
40	OPRSC	216	338	14.44	14.52	14.52	15.1
40	OPRSC	216	348	14.44	14.52	14.52	15.1
40	OPRSC	216	358	14.44	14.52	14.52	15.1
40	OPRSC	216	368	14.44	14.52	14.52	15.1
40	OPRSC	216	378	14.44	14.52	14.52	15.1
40	OPRSC	216	388	14.44	14.52	14.52	15.1
40	OPRSC	216	398	14.44	14.52	14.52	15.1
40	OPRSC	216	408	14.44	14.52	14.52	15.1
40	OPRSC	216	418	14.44	14.52	14.52	15.1
40	OPRSC	216	428	14.44	14.52	14.52	15.1
40	OPRSC	216	438	14.44	14.52	14.52	15.1
40	OPRSC	216	448	14.44	14.52	14.52	15.1
40	OPRSC	216	458	14.44	14.52	14.52	15.1
40	OPRSC	216	468	14.44	14.52	14.52	15.1
40	OPRSC	216	478	14.44	14.52	14.52	15.

[illegible]

n66 Ant1 D913 Simultaneous									
RF (MHz)	Modulation	RF Rate	RF Chd	Power Level (dBm)	Power Mdn (dBm)	Power Mdn (dBm)	Power Mdn (dBm)	Power Mdn (dBm)	SPR (dB)
Channel									
40	PSK-BPSK	1	1	-14.00	-13.17	-14.00			
40	PSK-BPSK	1	104	-14.13	-13.13	-14.13	19.5	0.0	
40	PSK-BPSK	1	207	-14.13	-13.13	-14.13	19.2	0.0	
40	PSK-BPSK	1	310	-14.11	-13.09	-14.11	19.2	0.0	0.0
40	PSK-BPSK	1	413	-14.11	-13.09	-14.11	19.2	0.0	0.0
40	PSK-BPSK	1	516	-14.11	-13.09	-14.11	19.2	0.0	0.0
40	PSK-BPSK	1	619	-14.18	-13.08	-14.21	19.1	0.0	0.0
40	PSK-BPSK	1	722	-14.18	-13.08	-14.21	19.1	0.0	0.0
40	PSK-QPSK	1	1	-14.20	-13.30	-14.07			
40	PSK-QPSK	1	104	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	207	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	310	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	413	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	516	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	619	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	722	-14.18	-13.18	-14.18	19.5	0.0	
40	PSK-QPSK	1	825	-14.11	-13.09	-14.09	19.5	0.0	0.0
40	PSK-QPSK	1	928	-14.11	-13.09	-14.09	19.5	0.0	0.0
40	PSK-QPSK	1	1031	-14.11	-13.09	-14.09	19.5	0.0	0.0
40	PSK-QPSK	1	1134	-14.11	-13.09	-14.09	19.5	0.0	0.0
40	PSK-QPSK	1	1237	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1340	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1443	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1546	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1649	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1752	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1855	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	1958	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2061	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2164	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2267	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2370	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2473	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2576	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2679	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2782	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2885	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	2988	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3091	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3194	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3297	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3400	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3503	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3606	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3709	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3812	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	3915	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4018	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4121	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4224	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4327	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4430	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4533	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4636	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4739	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4842	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	4945	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5048	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5151	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5254	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5357	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5460	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5563	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5666	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5769	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5872	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	5975	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6078	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6181	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6284	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6387	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6490	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6593	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6696	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6799	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	6902	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7005	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7108	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7211	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7314	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7417	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7520	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7623	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7726	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7829	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	7932	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8035	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8138	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8241	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8344	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8447	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8550	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8653	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8756	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8859	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	8962	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9065	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9168	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9271	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9374	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9477	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9580	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9683	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9786	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9889	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	9992	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10095	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10198	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10301	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10404	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10507	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10610	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10713	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10816	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	10919	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11022	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11125	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11228	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11331	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11434	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11537	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11640	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11743	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11846	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	11949	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12052	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12155	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12258	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12361	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12464	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12567	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12670	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12773	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12876	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK	1	12979	-14.18	-13.08	-14.21	19.4	0.0	0.0
40	PSK-QPSK								

n38 Ant1 DS13 Simultaneous									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Tune-up time (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
40	PSSBPSK	1	1	14.56	14.62	14.67			
40	PSSBPSK	1	53	14.60	14.67	14.68	15.6	0.0	
40	PSSBPSK	1	104	14.62	14.71	14.73			
40	PSSBPSK	30	0	14.60	14.66	14.68	15.0	0.0	
40	PSSBPSK	30	20	14.62	14.63	14.61	15.0	0.0	
40	PSSBPSK	30	50	14.62	14.65	14.61	15.0	0.0	
40	PSSBPSK	100	0	14.60	14.65	14.62			
40	QPSK	1	1	14.57	14.71	14.65			
40	QPSK	1	53	14.60	14.64	14.61	15.6	0.0	
40	QPSK	1	104	14.61	14.72	14.65			
40	QPSK	30	0	14.60	14.69	14.62	15.0	0.0	
40	QPSK	30	20	14.62	14.61	14.66	15.0	0.0	
40	QPSK	30	50	14.60	14.52	14.65	15.0	0.0	
40	QPSK	100	0	14.60	14.60	14.60	15.0	0.0	
40	SSBQAM	1	1	14.56	14.63	14.62	15.0	0.0	
40	SSBQAM	1	1	14.60	14.62	14.61	15.0	0.0	
Frequency [MHz]									
50	QPSK	1	1	14.47	14.58	14.40	15.6	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	14.50	14.55	14.38	15.0	0.0	
Channel	Frequency [MHz]	1	1	14.45	14.50	14.30	15.0	0.0	
15									
Channel	Frequency [MHz]	1	1	14.40	14.52	14.42	15.0	0.0	
10									

Par27Q n77 Ant2 DS13 Simultaneous									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Tune-up time (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1			11.77			
100	PSSBPSK	1	137			11.74	12.9	0.0	
100	PSSBPSK	1	271			11.68			
100	PSSBPSK	100	0			11.69	12.9	0.0	
100	PSSBPSK	100	60			11.70	12.9	0.0	
100	PSSBPSK	100	136			11.67	12.9	0.0	
100	PSSBPSK	270	0			11.69			
100	QPSK	1	1			11.65			
100	QPSK	1	137			11.62	12.9	0.0	
100	QPSK	1	271			11.67			
100	QPSK	100	0			11.59	12.9	0.0	
100	QPSK	100	60			11.59	12.9	0.0	
100	QPSK	100	136			11.67	12.9	0.0	
100	QPSK	270	0			11.70			
100	SSBQAM	1	1			11.71	12.9	0.0	
100	SSBQAM	1	1			11.63	12.9	0.0	
100	SSBQAM	1	1			11.75	12.9	0.0	
Channel									
Frequency [MHz]									
90	QPSK	1	1	11.62	11.66	11.70	0.0	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	11.69	11.84	11.71	0.0	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	11.64	11.65	11.71	0.0	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	11.69	11.61	11.70	0.0	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	11.70	11.61	11.69	0.0	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	11.61	11.65	11.73	0.0	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	11.70	11.66	11.60	0.0	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	11.68	11.65	11.73	0.0	0.0	

Part27O n77 Ant2 DS13 Simultaneous									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Frac.]	Power Minus Ch. [Frac.]	Power High Ch. [Frac.]	Tune-up time (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
100	PSSBPSK	1	1	11.40	11.44	11.44			
100	PSSBPSK	1	137	11.31	11.41	11.38	12.9	0.0	
100	PSSBPSK	1	271	11.34	11.35	11.42			
100	PSSBPSK	100	0	11.35	11.31	11.29	12.9	0.0	
100	PSSBPSK	100	60	11.37	11.34	11.41	12.9	0.0	
100	PSSBPSK	100	136	11.29	11.33	11.25	12.9	0.0	
100	PSSBPSK	270	0	11.40	11.36	11.40			
100	QPSK	1	1	11.40	11.35	11.44			
100	QPSK	1	137	11.29	11.25	11.42	12.9	0.0	
100	QPSK	1	271	11.40	11.33	11.35			
100	QPSK	100	0	11.41	11.29	11.37	12.9	0.0	
100	QPSK	100	60	11.35	11.25	11.42	12.9	0.0	
100	QPSK	100	136	11.32	11.28	11.25	12.9	0.0	
100	QPSK	270	0	11.25	11.35	11.31			
100	SSBQAM	1	1	11.34	11.33	11.28	12.9	0.0	
100	SSBQAM	1	1	11.36	11.42	11.40	12.9	0.0	
100	SSBQAM	1	1	11.35	11.41	11.33	12.9	0.0	
Channel									
Frequency [MHz]									
90	QPSK	1	1	11.25	11.46	11.24	12.9	0.0	
Channel									
Frequency [MHz]									
80	QPSK	1	1	11.31	11.51	11.32	12.9	0.0	
Channel									
Frequency [MHz]									
70	QPSK	1	1	11.12	11.35	11.25	12.9	0.0	
Channel									
Frequency [MHz]									
60	QPSK	1	1	11.11	11.42	11.23	12.9	0.0	
Channel									
Frequency [MHz]									
50	QPSK	1	1	11.23	11.31	11.33	12.9	0.0	
Channel									
Frequency [MHz]									
40	QPSK	1	1	11.11	11.43	11.33	12.9	0.0	
Channel									
Frequency [MHz]									
30	QPSK	1	1	11.10	11.42	11.22	12.9	0.0	
Channel									
Frequency [MHz]									
20	QPSK	1	1	11.11	11.40	11.23	12.9	0.0	



Part27Q n78 PC2&3 Ant2 DSi3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Frac.)	Power Media Ch. 1 (Frac.)	Power High Ch. 1 (Frac.)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	P102-BPSK	1	1	15.23			
100	P102-BPSK	1	137	12.22			13.2 0.0
100	P102-BPSK	1	271	12.08			
100	P102-BPSK	135	0	12.04			13.2 0.0
100	P102-BPSK	135	68	12.16			13.2 0.0
100	P102-BPSK	135	138	12.13			13.2 0.0
100	P102-BPSK	270	0	12.14			
100	QPSK	1	1	12.05			
100	QPSK	1	137	12.09			13.2 0.0
100	QPSK	1	271	12.21			
100	QPSK	135	0	12.12			13.2 0.0
100	QPSK	135	68	12.06			13.2 0.0
100	QPSK	135	138	12.08			13.2 0.0
100	QPSK	270	0	12.17			
100	16QAM	1	1	12.11			13.2 0.0
100	16QAM	1	1	12.20			13.2 0.0
100	16QAM	1	1	12.04			13.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	12.04	12.02	12.05	13.2 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.94	11.96	11.97	13.2 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	12.04	11.99	11.95	13.2 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.91	12.00	11.90	13.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.89	11.98	11.96	13.2 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.92	11.90	11.90	13.2 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	12.02	11.98	12.04	13.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	12.03	12.01	11.99	13.2 0.0

Part27Q n78 PC2&3 Ant2 DSi3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Frac.)	Power Media Ch. 1 (Frac.)	Power High Ch. 1 (Frac.)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	P102-BPSK	1	1	11.45			
100	P102-BPSK	1	137	11.37			13.2 0.0
100	P102-BPSK	1	271	11.25			
100	P102-BPSK	135	0	11.21			13.2 0.0
100	P102-BPSK	135	68	11.20			13.2 0.0
100	P102-BPSK	135	138	11.33			13.2 0.0
100	P102-BPSK	270	0	11.31			
100	QPSK	1	1	11.05			
100	QPSK	1	137	11.24			13.2 0.0
100	QPSK	1	271	11.30			
100	QPSK	135	0	11.28			13.2 0.0
100	QPSK	135	68	11.24			13.2 0.0
100	QPSK	135	138	11.20			13.2 0.0
100	QPSK	270	0	11.30			
100	16QAM	1	1	11.21			13.2 0.0
100	16QAM	1	1	11.45			13.2 0.0
100	16QAM	1	1	11.01			13.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.33	11.10	11.20	13.2 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	11.20	11.17	11.20	13.2 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	11.04	11.04	11.20	13.2 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	11.10	11.16	11.20	13.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.21	11.10	11.19	13.2 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.24	11.15	11.21	13.2 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	11.13	11.09	11.20	13.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	11.27	11.09	11.20	13.2 0.0

Part27Q n78 PC2&3 Ant7 DSi3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Frac.)	Power Media Ch. 1 (Frac.)	Power High Ch. 1 (Frac.)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	P102-BPSK	1	1	15.21			
100	P102-BPSK	1	137	15.40			16.2 0.0
100	P102-BPSK	1	271	15.20			
100	P102-BPSK	135	0	15.13			16.2 0.0
100	P102-BPSK	135	68	15.07			16.2 0.0
100	P102-BPSK	135	138	15.18			16.2 0.0
100	P102-BPSK	270	0	15.17			
100	QPSK	1	1	15.07			
100	QPSK	1	137	15.45			16.2 0.0
100	QPSK	1	271	15.10			
100	QPSK	135	0	15.08			16.2 0.0
100	QPSK	135	68	15.04			16.2 0.0
100	QPSK	135	138	15.12			16.2 0.0
100	QPSK	270	0	15.17			
100	16QAM	1	1	15.17			16.2 0.0
100	16QAM	1	1	15.09			16.2 0.0
100	16QAM	1	1	15.20			16.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.30	15.25	15.20	16.2 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.34	15.27	15.21	16.2 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.14	15.14	16.2 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.25	15.20	15.23	16.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.37	14.89	15.20	16.2 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.42	15.13	15.10	16.2 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.39	15.20	15.27	16.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.05	15.17	15.16	16.2 0.0

Part27Q n78 PC2&3 Ant7 DSi3 Simultaneous							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 (Frac.)	Power Media Ch. 1 (Frac.)	Power High Ch. 1 (Frac.)	Turn-up time (dBm)
Channel							
Frequency (MHz)							
100	P102-BPSK	1	1	15.31			
100	P102-BPSK	1	137	15.30			16.2 0.0
100	P102-BPSK	1	271	15.47			
100	P102-BPSK	135	0	15.21			16.2 0.0
100	P102-BPSK	135	68	15.40			16.2 0.0
100	P102-BPSK	135	138	15.30			16.2 0.0
100	P102-BPSK	270	0	15.21			16.2 0.0
Channel							
Frequency (MHz)							
100	QPSK	1	1	15.30			
100	QPSK	1	137	15.29			16.2 0.0
100	QPSK	1	271	15.27			
100	QPSK	135	0	15.20			16.2 0.0
100	QPSK	135	68	15.40			16.2 0.0
100	QPSK	135	138	15.30			16.2 0.0
100	QPSK	270	0	15.47			
100	16QAM	1	1	15.15			16.2 0.0
100	16QAM	1	1	15.18			16.2 0.0
100	16QAM	1	1	15.13			16.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.36	15.13	15.20	16.2 0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.40	15.41	15.38	16.2 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.22	15.05	15.10	16.2 0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.18	15.20	15.18	16.2 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.19	15.22	15.19	16.2 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.20	15.07	15.23	16.2 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.12	15.06	15.07	16.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.38	15.21	15.20	16.2 0.0

Part27Q n78 Ant8 DS13 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 2 Freq.	Power Max Ch. 2 Freq.	Power High Ch. 2 Freq.	Time-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PLC BPSK	1	1	18.31				
100	PLC BPSK	1	137	18.49			19.5	0.0
100	PLC BPSK	1	271	18.43				
100	PLC BPSK	135	0	18.43			19.5	0.0
100	PLC BPSK	135	136	18.39			19.5	0.0
100	PLC BPSK	135	138	18.32			19.5	0.0
100	PLC BPSK	270	0	18.32			19.5	0.0
100	QPSK	1	1	18.31				
100	QPSK	1	137	18.49			19.5	0.0
100	QPSK	1	271	18.43				
100	QPSK	135	0	18.21			19.5	0.0
100	QPSK	135	136	18.38			19.5	0.0
100	QPSK	135	138	18.32			19.5	0.0
100	QPSK	270	0	18.32			19.5	0.0
100	16QAM	1	1	18.39			19.5	0.0
100	16QAM	1	1	18.47			19.5	0.0
100	16QAM	1	1	18.41			19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.36	18.46	18.44	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.49	18.41	18.44	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.36	18.46	18.25	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.44	18.38	18.33	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.39	18.33	18.39	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.39	18.41	18.33	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.45	18.39	18.43	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.33	18.39	18.43	19.5	0.0

Part27O n78 Ant8 DS13 Simultaneous								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 2 Freq.	Power Max Ch. 2 Freq.	Power High Ch. 2 Freq.	Time-up time (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PLC BPSK	1	1	18.41			19.5	0.0
100	PLC BPSK	1	137	18.53				
100	PLC BPSK	1	271	18.55			19.5	0.0
100	PLC BPSK	135	0	18.51			19.5	0.0
100	PLC BPSK	135	136	18.46			19.5	0.0
100	PLC BPSK	135	138	18.44			19.5	0.0
100	PLC BPSK	270	0	18.39			19.5	0.0
100	QPSK	1	1	18.57			19.5	0.0
100	QPSK	1	137	18.58			19.5	0.0
100	QPSK	1	271	18.55			19.5	0.0
100	QPSK	135	0	18.39			19.5	0.0
100	QPSK	135	136	18.46			19.5	0.0
100	QPSK	135	138	18.37			19.5	0.0
100	QPSK	270	0	18.43			19.5	0.0
100	16QAM	1	1	18.52			19.5	0.0
100	16QAM	1	1	18.55			19.5	0.0
100	16QAM	1	1	18.45			19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.46	18.38	18.37	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.43	18.52	18.34	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.58	18.53	18.52	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.36	18.33	18.39	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.44	18.38	18.33	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.39	18.33	18.39	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.39	18.41	18.33	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.45	18.39	18.43	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.33	18.39	18.44	19.5	0.0



n7 Ant0 DS16 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									
Frequency (MHz)				504000	507000	510000			
				2520	2535	2550			
40	Pl2 BPSK	1	1	21.34	21.45	21.25	22.5	0.0	
40	Pl2 BPSK	1	108	21.33	21.46	21.27			
40	Pl2 BPSK	1	214	21.34	21.45	21.24			
40	Pl2 BPSK	108	0	21.37	21.41	21.27	22.5	0.0	
40	Pl2 BPSK	108	54	21.34	21.45	21.23	22.5	0.0	
40	Pl2 BPSK	108	108	21.38	21.42	21.28	22.5	0.0	
40	Pl2 BPSK	216	0	21.38	21.44	21.28	22.5	0.0	
40	QPSK	1	1	21.40	21.48	21.30			
40	QPSK	1	108	21.34	21.41	21.23			
40	QPSK	1	214	21.34	21.45	21.25	22.5	0.0	
40	QPSK	108	0	21.32	21.41	21.24			
40	QPSK	108	54	21.34	21.43	21.23			
40	QPSK	108	108	21.32	21.40	21.27	22.5	0.0	
40	QPSK	216	0	21.37	21.40	21.28			
40	16QAM	1	1	21.36	21.41	21.26	22.5	0.0	
40	64QAM	1	1	21.36	21.43	21.27	22.5	0.0	
40	256QAM	1	1	19.91	19.97	19.92	21.5	1.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
				2515	2535	2555			
30	QPSK	1	1	21.32	21.39	21.16	22.5	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
				2512.5	2535	2557.5			
25	QPSK	1	1	21.27	21.35	21.17	22.5	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
				2510	2535	2560			
20	QPSK	1	1	21.27	21.35	21.16	22.5	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
				2507.5	2535	2562.5			
15	QPSK	1	1	21.32	21.39	21.16	22.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
				2505	2535	2565			
10	QPSK	1	1	21.32	21.37	21.16	22.5	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
				2502.5	2535	2567.5			
5	QPSK	1	1	21.30	21.37	21.16	22.5	0.0	

n7 Ant1 DS16 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									
Frequency (MHz)				504000	507000	510000			
				2520	2535	2550			
40	Pl2 BPSK	1	1	18.07	18.09	18.09	19.7	0.0	
40	Pl2 BPSK	1	108	18.14	18.06	18.15			
40	Pl2 BPSK	1	214	18.13	18.05	18.04			
40	Pl2 BPSK	108	0	18.15	18.04	18.02	19.7	0.0	
40	Pl2 BPSK	108	54	18.02	18.05	18.07	19.7	0.0	
40	Pl2 BPSK	108	108	18.13	18.00	18.16	19.7	0.0	
40	Pl2 BPSK	216	0	18.11	18.14	18.10	19.7	0.0	
40	QPSK	1	1	18.15	18.27	18.15			
40	QPSK	1	108	18.10	18.01	18.02			
40	QPSK	1	214	18.14	18.07	18.00	19.7	0.0	
40	QPSK	108	0	18.05	18.11	18.05			
40	QPSK	108	54	18.03	18.14	18.13			
40	QPSK	108	108	18.10	18.11	18.03	19.7	0.0	
40	QPSK	216	0	18.08	18.12	18.02			
40	16QAM	1	1	17.97	18.02	18.13	19.7	0.0	
40	64QAM	1	1	18.05	18.10	17.99	19.7	0.0	
40	256QAM	1	1	18.06	17.99	18.00	19.7	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
				2515	2535	2555			
30	QPSK	1	1	18.08	17.94	17.95	19.7	0.0	
Channel									
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
				2512.5	2535	2557.5			
25	QPSK	1	1	18.06	17.96	17.97	19.7	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
				2510	2535	2560			
20	QPSK	1	1	18.05	17.94	17.99	19.7	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
				2507.5	2535	2562.5			
15	QPSK	1	1	18.08	17.98	17.97	19.7	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
				2505	2535	2565			
10	QPSK	1	1	18.06	17.93	17.97	19.7	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
				2502.5	2535	2567.5			
5	QPSK	1	1	18.03	17.95	17.99	19.7	0.0	

n66 Ant1 DSI6 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									
Frequency (MHz)				1730	1745	1760			
40	Pl2 BPSK	1	1	18.55	18.54	18.61	20.0	0.0	
40	Pl2 BPSK	1	108	18.66	18.64	18.65			
40	Pl2 BPSK	1	214	18.66	18.70	18.68			
40	Pl2 BPSK	108	0	18.59	18.61	18.60	20.0	0.0	
40	Pl2 BPSK	108	54	18.68	18.66	18.59	20.0	0.0	
40	Pl2 BPSK	108	108	18.67	18.58	18.68	20.0	0.0	
40	Pl2 BPSK	216	0	18.62	18.61	18.57	20.0	0.0	
40	QPSK	1	1	18.71	18.73	18.59			
40	QPSK	1	108	18.68	18.60	18.65			
40	QPSK	1	214	18.68	18.68	18.67	20.0	0.0	
40	QPSK	108	0	18.43	18.53	18.43			
40	QPSK	108	54	18.59	18.63	18.60			
40	QPSK	108	108	18.43	18.57	18.58	20.0	0.0	
40	QPSK	216	0	18.63	18.68	18.66			
40	16QAM	1	1	18.69	18.70	18.65	20.0	0.0	
40	64QAM	1	1	18.63	18.65	18.65	20.0	0.0	
40	256QAM	1	1	18.57	18.69	18.65	20.0	0.0	
Channel									
Frequency (MHz)				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
				1725	1745	1765			
30	QPSK	1	1	18.66	18.54	18.57	20.0	0.0	
Channel									
Frequency (MHz)				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
				1720	1745	1770			
20	QPSK	1	1	18.64	18.57	18.58	20.0	0.0	
Channel									
Frequency (MHz)				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
				1715	1745	1772.5			
15	QPSK	1	1	18.65	18.55	18.62	20.0	0.0	
Channel									
Frequency (MHz)				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
				1710	1745	1775			
10	QPSK	1	1	18.66	18.54	18.59	20.0	0.0	
Channel									
Frequency (MHz)				342000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
				1710	1745	1777.5			
5	QPSK	1	1	18.66	18.55	18.60	20.0	0.0	

[illegible]

Part270 n78 PC2&2 Ant1 DS16 Simultaneous									
Seq ID#	Modulation	RB Size	RB Offset	Time Slot (ms)	Power (dBm)	Power Spectrum (dBm)	Power Spectrum (dBm)	Power Spectrum (dBm)	Power Spectrum (dBm)
100	FS-FSK-MQAM	1	1	10.00	-10.00	-10.00	-10.00	-10.00	0.00
101	FS-FSK-MQAM	1	2	10.00	-10.00	-10.00	-10.00	-10.00	0.00
102	FS-FSK-MQAM	1	3	10.00	-10.00	-10.00	-10.00	-10.00	0.00
103	FS-FSK-MQAM	1	4	10.00	-10.00	-10.00	-10.00	-10.00	0.00
104	FS-FSK-MQAM	1	5	10.00	-10.00	-10.00	-10.00	-10.00	0.00
105	FS-FSK-MQAM	1	6	10.00	-10.00	-10.00	-10.00	-10.00	0.00
106	FS-FSK-MQAM	1	7	10.00	-10.00	-10.00	-10.00	-10.00	0.00
107	FS-FSK-MQAM	1	8	10.00	-10.00	-10.00	-10.00	-10.00	0.00
108	FS-FSK-MQAM	1	9	10.00	-10.00	-10.00	-10.00	-10.00	0.00
109	FS-FSK-MQAM	1	10	10.00	-10.00	-10.00	-10.00	-10.00	0.00
110	FS-FSK-MQAM	1	11	10.00	-10.00	-10.00	-10.00	-10.00	0.00
111	FS-FSK-MQAM	1	12	10.00	-10.00	-10.00	-10.00	-10.00	0.00
112	FS-FSK-MQAM	1	13	10.00	-10.00	-10.00	-10.00	-10.00	0.00
113	FS-FSK-MQAM	1	14	10.00	-10.00	-10.00	-10.00	-10.00	0.00
114	FS-FSK-MQAM	1	15	10.00	-10.00	-10.00	-10.00	-10.00	0.00
115	FS-FSK-MQAM	1	16	10.00	-10.00	-10.00	-10.00	-10.00	0.00
116	FS-FSK-MQAM	1	17	10.00	-10.00	-10.00	-10.00	-10.00	0.00
117	FS-FSK-MQAM	1	18	10.00	-10.00	-10.00	-10.00	-10.00	0.00
118	FS-FSK-MQAM	1	19	10.00	-10.00	-10.00	-10.00	-10.00	0.00
119	FS-FSK-MQAM	1	20	10.00	-10.00	-10.00	-10.00	-10.00	0.00
120	FS-FSK-MQAM	1	21	10.00	-10.00	-10.00	-10.00	-10.00	0.00
121	FS-FSK-MQAM	1	22	10.00	-10.00	-10.00	-10.00	-10.00	0.00
122	FS-FSK-MQAM	1	23	10.00	-10.00	-10.00	-10.00	-10.00	0.00
123	FS-FSK-MQAM	1	24	10.00	-10.00	-10.00	-10.00	-10.00	0.00
124	FS-FSK-MQAM	1	25	10.00	-10.00	-10.00	-10.00	-10.00	0.00
125	FS-FSK-MQAM	1	26	10.00	-10.00	-10.00	-10.00	-10.00	0.00
126	FS-FSK-MQAM	1	27	10.00	-10.00	-10.00	-10.00	-10.00	0.00
127	FS-FSK-MQAM	1	28	10.00	-10.00	-10.00	-10.00	-10.00	0.00
128	FS-FSK-MQAM	1	29	10.00	-10.00	-10.00	-10.00	-10.00	0.00
129	FS-FSK-MQAM	1	30	10.00	-10.00	-10.00	-10.00	-10.00	0.00
130	FS-FSK-MQAM	1	31	10.00	-10.00	-10.00	-10.00	-10.00	0.00
131	FS-FSK-MQAM	1	32	10.00	-10.00	-10.00	-10.00	-10.00	0.00
132	FS-FSK-MQAM	1	33	10.00	-10.00	-10.00	-10.00	-10.00	0.00
133	FS-FSK-MQAM	1	34	10.00	-10.00	-10.00	-10.00	-10.00	0.00
134	FS-FSK-MQAM	1	35	10.00	-10.00	-10.00	-10.00	-10.00	0.00
135	FS-FSK-MQAM	1	36	10.00	-10.00	-10.00	-10.00	-10.00	0.00
136	FS-FSK-MQAM	1	37	10.00	-10.00	-10.00	-10.00	-10.00	0.00
137	FS-FSK-MQAM	1	38	10.00	-10.00	-10.00	-10.00	-10.00	0.00
138	FS-FSK-MQAM	1	39	10.00	-10.00	-10.00	-10.00	-10.00	0.00
139	FS-FSK-MQAM	1	40	10.00	-10.00	-10.00	-10.00	-10.00	0.00
140	FS-FSK-MQAM	1	41	10.00	-10.00	-10.00	-10.00	-10.00	0.00
141	FS-FSK-MQAM	1	42	10.00	-10.00	-10.00	-10.00	-10.00	0.00
142	FS-FSK-MQAM	1	43	10.00	-10.00	-10.00	-10.00	-10.00	0.00
143	FS-FSK-MQAM	1	44	10.00	-10.00	-10.00	-10.00	-10.00	0.00
144	FS-FSK-MQAM	1	45	10.00	-10.00	-10.00	-10.00	-10.00	0.00
145	FS-FSK-MQAM	1	46	10.00	-10.00	-10.00	-10.00	-10.00	0.00
146	FS-FSK-MQAM	1	47	10.00	-10.00	-10.00	-10.00	-10.00	0.00
147	FS-FSK-MQAM	1	48	10.00	-10.00	-10.00	-10.00	-10.00	0.00
148	FS-FSK-MQAM	1	49	10.00	-10.00	-10.00	-10.00	-10.00	0.00
149	FS-FSK-MQAM	1	50	10.00	-10.00	-10.00	-10.00	-10.00	0.00
150	FS-FSK-MQAM	1	51	10.00	-10.00	-10.00	-10.00	-10.00	0.00
151	FS-FSK-MQAM	1	52	10.00	-10.00	-10.00	-10.00	-10.00	0.00
152	FS-FSK-MQAM	1	53	10.00	-10.00	-10.00	-10.00	-10.00	0.00
153	FS-FSK-MQAM	1	54	10.00	-10.00	-10.00	-10.00	-10.00	0.00
154	FS-FSK-MQAM	1	55	10.00	-10.00	-10.00	-10.00	-10.00	0.00
155	FS-FSK-MQAM	1	56	10.00	-10.00	-10.00	-10.00	-10.00	0.00
156	FS-FSK-MQAM	1	57	10.00	-10.00	-10.00	-10.00	-10.00	0.00
157	FS-FSK-MQAM	1	58	10.00	-10.00	-10.00	-10.00	-10.00	0.00
158	FS-FSK-MQAM	1	59	10.00	-10.00	-10.00	-10.00	-10.00	0.00
159	FS-FSK-MQAM	1	60	10.00	-10.00	-10.00	-10.00	-10.00	0.00
160	FS-FSK-MQAM	1	61	10.00	-10.00	-10.00	-10.00	-10.00	0.00
161	FS-FSK-MQAM	1	62	10.00	-10.00	-10.00	-10.00	-10.00	0.00
162	FS-FSK-MQAM	1	63	10.00	-10.00	-10.00	-10.00	-10.00	0.00
163	FS-FSK-MQAM	1	64	10.00	-10.00	-10.00	-10.00	-10.00	0.00
164	FS-FSK-MQAM	1	65	10.00	-10.00	-10.00	-10.00	-10.00	0.00
165	FS-FSK-MQAM	1	66	10.00	-10.00	-10.00	-10.00	-10.00	0.00
166	FS-FSK-MQAM	1	67	10.00	-10.00	-10.00	-10.00	-10.00	0.00
167	FS-FSK-MQAM	1	68	10.00	-10.00	-10.00	-10.00	-10.00	0.00
168	FS-FSK-MQAM	1	69	10.00	-10.00	-10.00	-10.00	-10.00	0.00
169	FS-FSK-MQAM	1	70	10.00	-10.00	-10.00	-10.00	-10.00	0.00
170	FS-FSK-MQAM	1	71	10.00	-10.00	-10.00	-10.00	-10.00	0.00
171	FS-FSK-MQAM	1	72	10.00	-10.00	-10.00	-10.00	-10.00	0.00
172	FS-FSK-MQAM	1	73	10.00	-10.00	-10.00	-10.00	-10.00	0.00
173	FS-FSK-MQAM	1	74	10.00	-10.00	-10.00	-10.00	-10.00	0.00
174	FS-FSK-MQAM	1	75	10.00	-10.00	-10.00	-10.00	-10.00	0.00
175	FS-FSK-MQAM	1	76	10.00	-10.00	-10.00	-10.00	-10.00	0.00
176	FS-FSK-MQAM	1	77	10.00	-10.00	-10.00	-10.00	-10.00	0.00
177	FS-FSK-MQAM	1	78	10.00	-10.00	-10.00	-10.00	-10.00	0.00
178	FS-FSK-MQAM	1	79	10.00	-10.00	-10.00	-10.00	-10.00	0.00
179	FS-FSK-MQAM	1	80	10.00	-10.00	-10.00	-10.00	-10.00	0.00
180	FS-FSK-MQAM	1	81	10.00	-10.00	-10.00	-10.00	-10.00	0.00
181	FS-FSK-MQAM	1	82	10.00	-10.00	-10.00	-10.00	-10.00	0.00
182	FS-FSK-MQAM	1	83	10.00	-10.00	-10.00	-10.00	-10.00	0.00
183	FS-FSK-MQAM	1	84	10.00	-10.00	-10.00	-10.00	-10.00	0.00
184	FS-FSK-MQAM	1	85	10.00	-10.00	-10.00	-10.00	-10.00	0.00
185	FS-FSK-MQAM	1	86	10.00	-10.00	-10.00	-10.00	-10.00	0.00
186	FS-FSK-MQAM	1	87	10.00	-10.00	-10.00	-10.00	-10.00	0.00
187	FS-FSK-MQAM	1	88	10.00	-10.00	-10.00	-10.00	-10.00	0.00
188	FS-FSK-MQAM	1	89	10.00	-10.00	-10.00	-10.00	-10.00	0.00
189	FS-FSK-MQAM	1	90	10.00	-10.00	-10.00	-10.00	-10.00	0.00
190	FS-FSK-MQAM	1	91	10.00	-10.00	-10.00	-10.00	-10.00	0.00
191	FS-FSK-MQAM	1	92	10.00	-10.00	-10.00	-10.00	-10.00	0.00
192	FS-FSK-MQAM	1	93	10.00	-10.00	-10.00	-10.00	-10.00	0.00
193	FS-FSK-MQAM	1	94	10.00	-10.00	-10.00	-10.00	-10.00	0.00
194	FS-FSK-MQAM	1	95	10.00	-10.00	-10.00	-10.00	-10.00	0.00
195	FS-FSK-MQAM	1	96	10.00	-10.00	-10.00	-10.00	-10.00	0.00
196	FS-FSK-MQAM	1	97	10.00	-10.00	-10.00	-10.00	-10.00	0.00
197	FS-FSK-MQAM	1	98	10.00	-10.00	-10.00	-10.00	-10.00	0.00
198	FS-FSK-MQAM	1	99	10.00	-10.00	-10.00	-10.00	-10.00	0.00
199	FS-FSK-MQAM	1	100	10.00	-10.00	-10.00	-10.00	-10.00	0.00

[illegible]

Part270 n78 PC2s3 AT7 DS16 Simultaneous									
Job ID#	Modulator	File Size	File Offset	File Size (MB)	Relative File Offset	Page Count	Page Offset	Page Size (KB)	File Size (MB)
00	Freeform	1	0	10.81	0.00	256	0	213	0.1
00	Freeform	1	1	10.81	0.00	256	0	213	0.1
00	Freeform	1	2	10.81	0.00	256	0	213	0.1
00	Freeform	128	66	10.80	0.00	256	0	213	0.0
00	Freeform	128	67	10.80	0.00	256	0	213	0.0
00	Freeform	256	0	10.79	0.00	256	0	213	0.0
00	Freeform	256	1	10.79	0.00	256	0	213	0.0
00	Freeform	256	2	10.79	0.00	256	0	213	0.0
00	Freeform	256	3	10.79	0.00	256	0	213	0.0
00	Freeform	256	4	10.79	0.00	256	0	213	0.0
00	Freeform	256	5	10.79	0.00	256	0	213	0.0
00	Freeform	256	6	10.79	0.00	256	0	213	0.0
00	Freeform	256	7	10.79	0.00	256	0	213	0.0
00	Freeform	256	8	10.79	0.00	256	0	213	0.0
00	Freeform	256	9	10.79	0.00	256	0	213	0.0
00	Freeform	256	10	10.79	0.00	256	0	213	0.0
00	Freeform	256	11	10.79	0.00	256	0	213	0.0
00	Freeform	256	12	10.79	0.00	256	0	213	0.0
00	Freeform	256	13	10.79	0.00	256	0	213	0.0
00	Freeform	256	14	10.79	0.00	256	0	213	0.0
00	Freeform	256	15	10.79	0.00	256	0	213	0.0
00	Freeform	256	16	10.79	0.00	256	0	213	0.0
00	Freeform	256	17	10.79	0.00	256	0	213	0.0
00	Freeform	256	18	10.79	0.00	256	0	213	0.0
00	Freeform	256	19	10.79	0.00	256	0	213	0.0
00	Freeform	256	20	10.79	0.00	256	0	213	0.0
00	Freeform	256	21	10.79	0.00	256	0	213	0.0
00	Freeform	256	22	10.79	0.00	256	0	213	0.0
00	Freeform	256	23	10.79	0.00	256	0	213	0.0
00	Freeform	256	24	10.79	0.00	256	0	213	0.0
00	Freeform	256	25	10.79	0.00	256	0	213	0.0
00	Freeform	256	26	10.79	0.00	256	0	213	0.0
00	Freeform	256	27	10.79	0.00	256	0	213	0.0
00	Freeform	256	28	10.79	0.00	256	0	213	0.0
00	Freeform	256	29	10.79	0.00	256	0	213	0.0
00	Freeform	256	30	10.79	0.00	256	0	213	0.0
00	Freeform	256	31	10.79	0.00	256	0	213	0.0
00	Freeform	256	32	10.79	0.00	256	0	213	0.0
00	Freeform	256	33	10.79	0.00	256	0	213	0.0
00	Freeform	256	34	10.79	0.00	256	0	213	0.0
00	Freeform	256	35	10.79	0.00	256	0	213	0.0
00	Freeform	256	36	10.79	0.00	256	0	213	0.0
00	Freeform	256	37	10.79	0.00	256	0	213	0.0
00	Freeform	256	38	10.79	0.00	256	0	213	0.0
00	Freeform	256	39	10.79	0.00	256	0	213	0.0
00	Freeform	256	40	10.79	0.00	256	0	213	0.0
00	Freeform	256	41	10.79	0.00	256	0	213	0.0
00	Freeform	256	42	10.79	0.00	256	0	213	0.0
00	Freeform	256	43	10.79	0.00	256	0	213	0.0
00	Freeform	256	44	10.79	0.00	256	0	213	0.0
00	Freeform	256	45	10.79	0.00	256	0	213	0.0
00	Freeform	256	46	10.79	0.00	256	0	213	0.0
00	Freeform	256	47	10.79	0.00	256	0	213	0.0
00	Freeform	256	48	10.79	0.00	256	0	213	0.0
00	Freeform	256	49	10.79	0.00	256	0	213	0.0
00	Freeform	256	50	10.79	0.00	256	0	213	0.0
00	Freeform	256	51	10.79	0.00	256	0	213	0.0
00	Freeform	256	52	10.79	0.00	256	0	213	0.0
00	Freeform	256	53	10.79	0.00	256	0	213	0.0
00	Freeform	256	54	10.79	0.00	256	0	213	0.0
00	Freeform	256	55	10.79	0.00	256	0	213	0.0
00	Freeform	256	56	10.79	0.00	256	0	213	0.0
00	Freeform	256	57	10.79	0.00	256	0	213	0.0
00	Freeform	256	58	10.79	0.00	256	0	213	0.0
00	Freeform	256	59	10.79	0.00	256	0	213	0.0
00	Freeform	256	60	10.79	0.00	256	0	213	0.0
00	Freeform	256	61	10.79	0.00	256	0	213	0.0
00	Freeform	256	62	10.79	0.00	256	0	213	0.0
00	Freeform	256	63	10.79	0.00	256	0	213	0.0
00	Freeform	256	64	10.79	0.00	256	0	213	0.0
00	Freeform	256	65	10.79	0.00	256	0	213	0.0
00	Freeform	256	66	10.79	0.00	256	0	213	0.0
00	Freeform	256	67	10.79	0.00	256	0	213	0.0
00	Freeform	256	68	10.79	0.00	256	0	213	0.0
00	Freeform	256	69	10.79	0.00	256	0	213	0.0
00	Freeform	256	70	10.79	0.00	256	0	213	0.0
00	Freeform	256	71	10.79	0.00	256	0	213	0.0
00	Freeform	256	72	10.79	0.00	256	0	213	0.0
00	Freeform	256	73	10.79	0.00	256	0	213	0.0
00	Freeform	256	74	10.79	0.00	256	0	213	0.0
00	Freeform	256	75	10.79	0.00	256	0	213	0.0
00	Freeform	256	76	10.79	0.00	256	0	213	0.0
00	Freeform	256	77	10.79	0.00	256	0	213	0.0
00	Freeform	256	78	10.79	0.00	256	0	213	0.0
00	Freeform	256	79	10.79	0.00	256	0	213	0.0
00	Freeform	256	80	10.79	0.00	256	0	213	0.0
00	Freeform	256	81	10.79	0.00	256	0	213	0.0
00	Freeform	256	82	10.79	0.00	256	0	213	0.0
00	Freeform	256	83	10.79	0.00	256	0	213	0.0
00	Freeform	256	84	10.79	0.00	256	0	213	0.0
00	Freeform	256	85	10.79	0.00	256	0	213	0.0
00	Freeform	256	86	10.79	0.00	256	0	213	0.0
00	Freeform	256	87	10.79	0.00	256	0	213	0.0
00	Freeform	256	88	10.79	0.00	256	0	213	0.0
00	Freeform	256	89	10.79	0.00	256	0	213	0.0
00	Freeform	256	90	10.79	0.00	256	0	213	0.0
00	Freeform	256	91	10.79	0.00	256	0	213	0.0
00	Freeform	256	92	10.79	0.00	256	0	213	0.0
00	Freeform	256	93	10.79	0.00	256	0	213	0.0
00	Freeform	256	94	10.79	0.00	256	0	213	0.0
00	Freeform	256	95	10.79	0.00	256	0	213	0.0
00	Freeform	256	96	10.79	0.00	256	0	213	0.0
00	Freeform	256	97	10.79	0.00	256	0	213	0.0
00	Freeform	256	98	10.79	0.00	256	0	213	0.0
00	Freeform	256	99	10.79	0.00	256	0	213	0.0
00	Freeform	256	100	10.79	0.00	256	0	213	0.0
00	Freeform	256	101	10.79	0.00	256	0	213	0.0
00	Freeform	256	102	10.79	0.00	256	0	213	0.0
00	Freeform	256	103	10.79	0.00	256	0	213	0.0
00	Freeform	256	104	10.79	0.00	256	0	213	0.0
00	Freeform	256	105	10.79	0.00	256	0	213	0.0
00	Freeform	256	106	10.79	0.00	256	0	213	0.0
00	Freeform	256	107	10.79	0.00	256	0	213	0.0
00	Freeform	256	108	10.79	0.00	256	0	213	0.0
00	Freeform	256	109	10.79	0.00	256	0	213	0.0
00	Freeform	256	110	10.79	0.00	256	0	213	0.0
00	Freeform	256	111	10.79	0.00	256	0	213	0.0
00	Freeform	256	112	10.79	0.00	256	0	213	0.0
00	Freeform	256	113	10.79	0.00	256	0	213	0.0
00	Freeform	256	114	10.79	0.00	256	0	213	0.0
00	Freeform	256	115	10.79	0.00	256	0	213	0.0
00	Freeform	256	116	10.79	0.00	256	0	213	0.0
00	Freeform	256	117	10.79	0.00	256	0	213	0.0
00	Freeform	256	118	10.79	0.00	256	0	213	0.0
00	Freeform	256	119	10.79	0.00	256	0	213	0.0
00	Freeform	256	120	10.79	0.00	256	0	213	0.0
00	Freeform	256	121	10.79	0.00	256	0	213	0.0
00	Freeform	256	122	10.79	0.00	256	0	213	0.0
00	Freeform	256	123	10.79	0.00	256	0	213	0.0
00	Freeform	256	124	10.79	0.00	256	0	213	0.0
00	Freeform	256	125	10.79	0.00	256	0	213	0.0
00	Freeform	256	126	10.79	0.00	256	0	213	0.0
00	Freeform	256	127	10.79	0.00	256	0	213	0.0
00	Freeform	256	128	10.79	0.00	256	0	213	0.0
00	Freeform	256	129	10.79	0.00	256	0	213	0.0
00	Freeform	256	130	10.79	0.00	256	0	213	0.0
00	Freeform	256	131	10.79	0.00	256	0	213	0.0
00	Freeform	256	132	10.79	0.00	256	0	213	0.0
00	Freeform	256	133	10.79	0.00	256	0	213	0.0
00	Freeform	256	134	10.79	0.00	256	0	213	0.0
00	Freeform	256	135	10.79	0.00	256	0	213	0.0
00	Freeform	256	136	10.79	0.00	256	0	213	0.0
00	Freeform	256	137	10.79	0.00	256	0	213	0.0
00	Freeform	256	138	10.79	0.00	256	0	213	0.0
00	Freeform	256	139	10.79	0.00	256	0	213	0.0
00	Freeform	256	140	10.79	0.00	256	0	213	0.0
00	Freeform	256	141	10.79	0.00	256	0	213	0.0
00	Freeform	256	142	10.79	0.00	256	0	213	0.0
00	Freeform	256	143	10.79	0.00	256	0	213	0.0
00	Freeform	256							

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WLAN/Bluetooth Power

[illegible]

Note: The 2.4GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

		Art 5-6 Full Power Handoff (Stations)					Art 5-6 Head (Stations) Handoff (Simultaneous For WYAN + WLAN)		Art 5-6 Head (Simultaneous For DBS Only)		Art 5-6 Head (Simultaneous For Fur WYAN + DBS)		Art 5-6 Body, Wom (Simultaneous) (Simultaneous For WYAN + WLAN)		Art 5-6 Body, Wom & Headset (Simultaneous For Fur WYAN + DBS) (Simultaneous For WYAN + WLAN)		Art 5-6 Handoff (Simultaneous For DBS Only)		Art 5-6 Handoff (Simultaneous For WYAN + DBS)			
		Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle	
5.0GHz WLAN	802.11a 6Mbps	36	5180	26.40	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		40	5200	26.81	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		44	5220	26.81	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		48	5240	26.94	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
	802.11a-HT20 MCS0	36	5180	26.75	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		40	5200	26.78	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		44	5220	26.76	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		48	5240	26.79	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
	802.11a-HT40 MCS0	36	5190	19.87	21.50		Not Required		Not Required		Not Required		Not Required		Not Required		11.50	19.06	21.00		Not Required	
		40	5230	19.89	21.50		Not Required		Not Required		Not Required		Not Required		Not Required		11.50	19.03	21.50		Not Required	
		36	5180	26.71	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		40	5200	26.74	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
	802.11ac VHT20 MCS0	36	5180	26.71	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		40	5200	26.74	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		44	5220	26.73	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		48	5240	26.75	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
	802.11ac VHT40 MCS0	36	5190	19.87	21.50		20.50		19.50		14.50		17.50		15.50		11.50	19.87	21.50		17.50	
		40	5230	19.86	21.50		20.50		19.50		14.50		17.50		15.50		11.50	19.86	21.50		17.50	
		42	5210	18.73	20.50		18.73	20.50	16.90	18.50	12.90	14.90	16.67	17.50	14.00	15.90	10.03	11.90	18.73	20.50	15.51	17.50
		36	5180	26.62	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
	802.11ac-H20 MCS0	40	5200	26.81	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		44	5220	26.88	22.50		20.50		19.50		14.50		17.50		15.50		15.50		21.50		17.50	
		48	5240	26.82	22.50		20.50		Not Required		Not Required		Not Required		Not Required		11.50	20.01	21.50		Not Required	
		36	5190	26.01	21.50		20.50		19.50		14.50		17.50		15.50		11.50	19.96	21.50		17.50	
802.11ac-H40 MCS0	40	5220	19.96	21.50		20.50		19.50		14.50		17.50		15.50		11.50	19.96	21.50		17.50		
	42	5210	18.78	20.50		18.78	20.50		18.50		14.50		17.50		15.50		11.50	18.78	20.50		17.50	

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

		Art 5-6 Full Power Handheld (Standalone)				Art 5-6 Head (Standalone) Handheld (Simultaneous For WWAN + WLAN)				Art 5-6 Head (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN)				Art 5-6 Body Worn (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN)				Art 5-6 Body Worn (Standalone) Handheld (Simultaneous For WWAN + WLAN)				Art 5-6 Body Worn (Simultaneous For DBS Only) Handheld (Simultaneous For WWAN + DBS)				Art 5-6 Headfield (Simultaneous For DBS Only)								
		Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Average power (dBm)	Time-Up Limit	Duty Cycle			
5.3GHz WLAN	802.11a (MCS9)	52	5280	19.41	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00			
		56	5280	19.41	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00			
		60	5300	19.51	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
		64	5320	19.61	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
		52	5260	19.25	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
		56	5280	19.29	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		60	5300	19.36	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
		64	5320	19.44	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
	802.11a-vHT20 MCS9	54	5270	18.89	21.00	Not Required	20.50	Not Required	18.50	Not Required	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		62	5310	19.00	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		52	5260	19.30	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		56	5280	19.33	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		60	5300	19.41	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		64	5320	19.50	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00
		54	5270	18.89	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		62	5310	19.03	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
	802.11ac VHT80 MCS9	58	5290	18.85	20.50	19.85	20.50	17.03	18.50	13.02	14.50	19.50	19.50	11.50	15.77	17.50	13.81	15.50	17.31	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	100.00	
		50	5250	16.82	18.00	16.82	18.00	16.82	18.00		18.00	14.50	19.50	19.50	11.50	17.50	15.50	19.50	16.82	18.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	100	
		52	5260	19.32	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		56	5280	19.35	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		60	5300	19.44	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		64	5320	19.55	21.00		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		54	5270	18.94	20.50		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
		62	5310	19.07	20.50		20.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00	
802.11a-vH80 MCS9	58	5290	18.88	20.50	18.88	20.50	18.50	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		
	50	5250	16.89	18.50	16.89	18.50	16.89	18.50		18.50	14.50	19.50	19.50	17.50	15.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	19.50	100.00		

Note: The 5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

		Art 5-6 Full Power Handheld (Standalone)				Art 5-6 Head (Standalone) Body_Worn (Standalone)				Art 5-6 Head (Simultaneous For DBS Only) Body_Worn (Simultaneous For DBS Only)				Art 5-6 Head (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN) (Simultaneous For WWAN + WLAN)				Art 5-6 Headless (Simultaneous For DBS Only)				Art 5-6 Handheld (Simultaneous For WWAN + DBS)				Art 5-6 Body_Worn (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN)			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5 GHz WLAN	802.11a 8Mbps	100	5500	21.04	22.50		21.00		19.00		14.50		20.00		16.00		14.50		100.00										
		116	5580	21.06	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		124	5620	21.07	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		132	5660	21.03	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		140	5700	20.89	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		144	5720	20.91	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11a-HT20 MCS0	100	5500	20.93	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		116	5580	21.06	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		124	5620	20.88	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		132	5660	20.90	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		140	5700	20.73	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		144	5720	20.80	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11a-HT40 MCS0	102	5510	20.08	21.50		19.50	21.00		19.00		14.50		20.00		16.00		14.50											
		110	5550	20.20	21.50		19.04	21.00	Not Required	19.00	Not Required	14.50	Not Required	20.00	Not Required	16.00	14.50	Not Required											
		126	5630	19.91	21.50		19.32	21.00	Not Required	19.00	Not Required	14.50	Not Required	20.00	16.00	14.50	Not Required												
		134	5670	19.97	21.50		19.40	21.00	Not Required	19.00	Not Required	14.50	Not Required	20.00	16.00	14.50	Not Required												
		142	5710	19.92	21.50		19.46	21.00	Not Required	19.00	Not Required	14.50	Not Required	20.00	16.00	14.50	Not Required												
		150	5600	20.89	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11ac VHT20 MCS0	116	5680	21.07	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		124	5620	20.84	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		132	5660	20.85	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		140	5700	20.64	22.00		21.00		19.00		14.50		20.00		16.00		14.50												
		144	5720	20.75	22.00		21.00		19.00		14.50		20.00		16.00		14.50												
		102	5510	19.98	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11ac VHT40 MCS0	110	5550	20.12	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		126	5630	19.82	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		134	5670	19.88	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		142	5710	19.84	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		106	5530	19.88	20.50		18.98	20.50		17.23	19.00	13.10	14.50	18.53	20.00	14.37	16.00	13.10	14.50										
		122	5610	19.90	20.50		18.90	20.50		17.20	19.00	13.16	14.50	18.54	20.00	14.46	16.00	12.92	14.50										
	802.11ac VHT80 MCS0	138	5690	19.73	20.00		18.73	20.00		17.12	19.00	12.97	14.50	18.37	20.00	14.31	16.00	13.02	14.50										
		114	5570	19.40	20.00		18.40	20.00		19.00		14.50		20.00		16.00		14.50	100.00										
		100	5500	20.97	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		116	5580	21.10	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		124	5620	20.91	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		132	5660	20.96	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11a-HE20 MCS0	140	5700	20.80	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		144	5720	20.87	22.50		21.00		19.00		14.50		20.00		16.00		14.50												
		102	5510	20.10	21.00		21.00		19.00		14.50		20.00		16.00		14.50												
		110	5550	20.22	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		126	5630	19.95	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		134	5670	20.01	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
	802.11a-HE40 MCS0	142	5710	19.95	21.50		21.00		19.00		14.50		20.00		16.00		14.50												
		106	5530	19.01	20.50		19.01	20.50		19.00		14.50		20.00		16.00		14.50											
		122	5610	18.92	20.50		18.92	20.50		19.00		14.50		20.00		16.00		14.50											
		138	5690	18.76	20.00		18.76	20.00		19.00		14.50		20.00		16.00		14.50											
		102	5510	19.44	20.00		18.44	20.00		19.00		14.50		20.00		16.00		14.50											
		114	5570	19.44	20.00		18.44	20.00		19.00		14.50		20.00		16.00		14.50		100.00									

Note: The SGHC WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.

Art 5-6 Full Power Handheld (Standalone)					Art 5-6 Head (Simultaneous For DBS Only)		Art 5-6 Head & Body_Worn (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN)		Art 5-6 Rescue (Simultaneous For WWAN + DBS) (Simultaneous For WWAN + WLAN)		Art 5-6 Handheld (Simultaneous For DBS Only) (Standalone)		Art 5-6 Head (Standalone) Handheld (Simultaneous For WWAN + WLAN)		Art 5-6 Not Used (Simultaneous For WWAN + DBS)		Art 5-6 Body_Worn (Simultaneous For DBS Only)			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
S-SGHC WLAN	802.11a 8Mbps	149	5745	20.93	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
		157	5785	21.06	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
		165	5825	21.31	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
		149	5745	20.79	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
	802.11a-HT20 MCS0	157	5785	20.93	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
		165	5825	21.23	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
		151	5755	19.96	21.50	Not Required	17.50	14.00	Not Required	13.00	19.54	21.00	Not Required	20.00	Not Required	16.00	Not Required	19.00	100.00	
		159	5795	20.05	21.50	17.50	14.00	13.00	13.00	19.60	21.00	20.00	16.00	19.00						
	802.11ac VHT20 MCS0	149	5745	20.71	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
		157	5785	20.86	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
		165	5825	21.11	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
		151	5755	19.86	21.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
	802.11ac VHT40 MCS0	159	5795	19.90	21.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
	802.11ac VHT80 MCS0	155	5775	18.85	20.50	16.96	17.50	12.30	14.00	11.66	13.00	18.85	20.50	18.60	20.00	14.87	16.50	17.16	19.00	100.00
	802.11ac-HE20 MCS0	149	5745	20.81	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00						
		157	5785	20.99	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00							
165		5825	21.28	22.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00								
151		5755	20.60	21.50	Not Required	17.50	14.00	Not Required	13.00	Not Required	20.00	Not Required	16.00	Not Required	19.00	100.00				
802.11ac-HE40 MCS0	159	5795	20.10	21.50	17.50	14.00	13.00	13.00	21.00	20.00	16.00	19.00	100.00							
802.11ac-HE80 MCS0	155	5775	18.89	20.50	17.50	14.00	13.00	13.00	18.89	20.50	20.00	16.00	19.00	100.00						

BT BR/EDR Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	13.53	10.52	10.58	14
	CH 39	2441	12.12	9.59	9.34	13.5
	CH 78	2480	10.49	7.63	7.58	11.5

BLE_1M Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.05
	CH 19	2440	8.73
	CH 39	2480	7.37
Tune-up Limit			11

BLE_2M Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	10.06
	CH 19	2440	8.96
	CH 39	2480	7.62
Tune-up Limit			11.00

BT BR/EDR Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	14.18	11.58	11.56	15
	CH 39	2441	15.04	12.48	12.44	16
	CH 78	2480	15.32	12.57	12.63	16.5

BLE_1M Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.29
	CH 19	2440	8.57
	CH 39	2480	7.58
Tune-up Limit			9.5

BLE_2M Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	8.32
	CH 19	2440	8.86
	CH 39	2480	7.80
Tune-up Limit			9.50



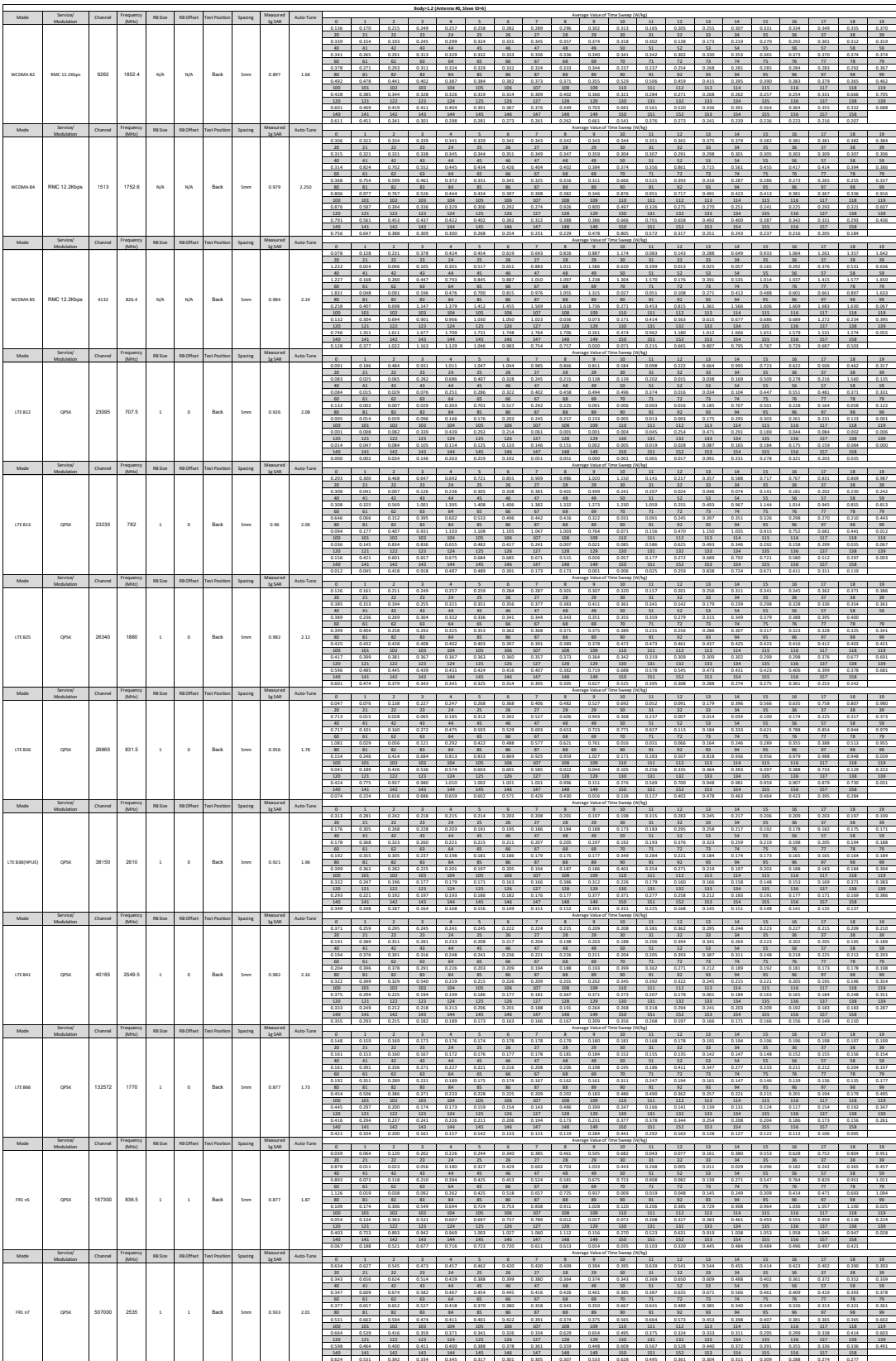
Appendix F. Supplemental Tuner Head & Body SAR Results

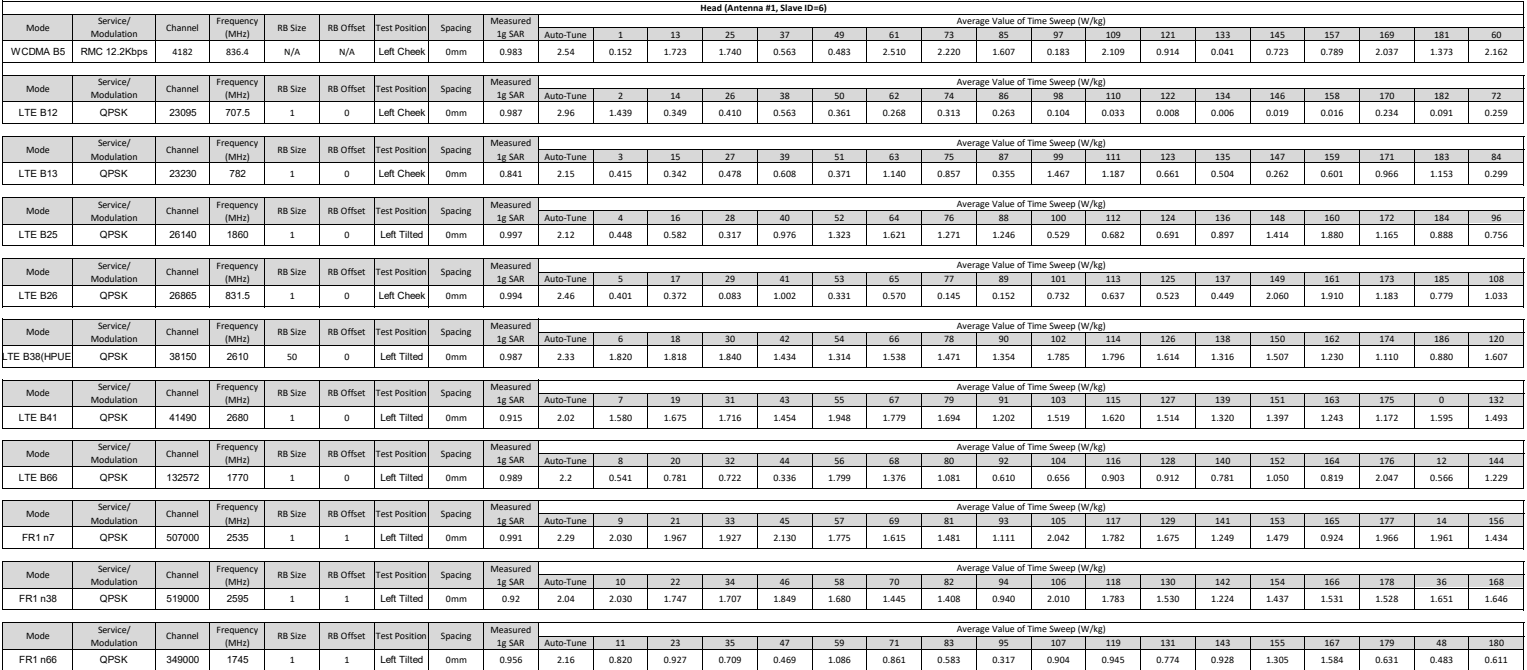
The results are shown as follows.

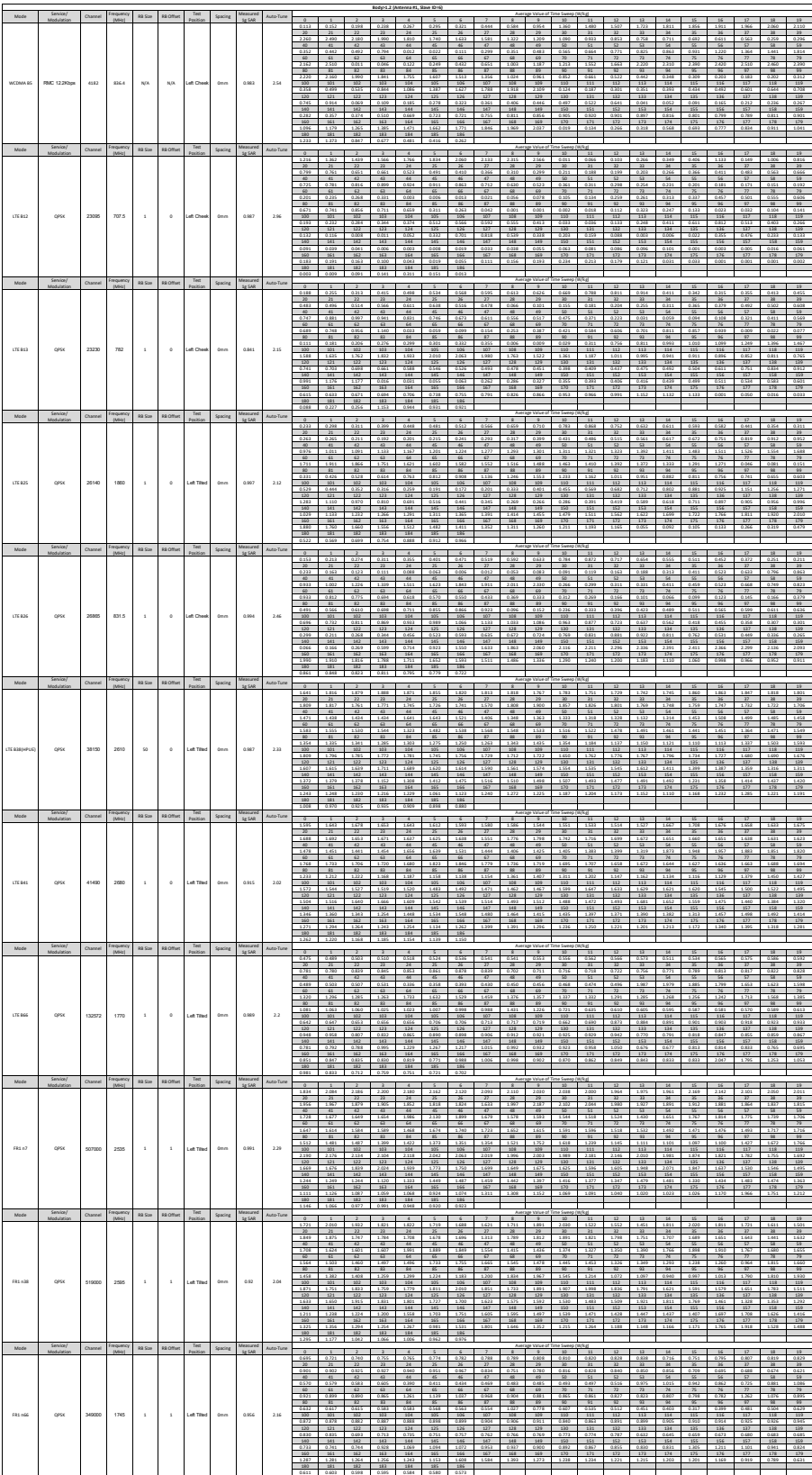
Head (Antenna #0, Slave ID=6)																						
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	2	16	30	44	58	72	86	100	114	128	142	156	170
WCDMA B2	RMC 12.2Kbps	9400	1880	N/A	N/A	Leftt Cheek	0mm	0.073	0.117	0.038	0.071	0.079	0.065	0.082	0.054	0.079	0.685	0.066	0.081	0.077	0.057	0.081
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	3	17	31	45	59	73	87	101	115	129	143	157	171
WCDMA B4	RMC 12.2Kbps	1413	1732.6	N/A	N/A	Leftt Cheek	0mm	0.084	0.126	0.037	0.042	0.032	0.049	0.043	0.033	0.045	0.068	0.023	0.038	0.032	0.018	0.029
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	4	18	32	46	60	74	88	102	116	130	144	158	172
WCDMA B5	RMC 12.2Kbps	4182	836.4	N/A	N/A	Right Cheek	0mm	0.236	0.236	0.041	0.177	0.001	0.091	0.221	0.052	0.203	0.077	0.151	0.703	0.169	0.111	0.049
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	5	19	33	47	61	75	89	103	117	131	145	159	173
LTE B12	QPSK	23095	707.5	1	0	Right Cheek	0mm	0.162	0.205	0.195	0.051	0.003	0.068	0.001	0.083	0.037	0.056	0.009	0.001	0.039	0.186	0.032
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	6	20	34	48	62	76	90	104	118	132	146	160	174
LTE B13	QPSK	23230	782	1	0	Right Cheek	0mm	0.174	0.218	0.121	0.041	0.005	0.208	0.023	0.034	0.009	0.091	0.002	0.045	0.052	0.143	0.013
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	7	21	35	49	63	77	91	105	119	133	147	161	175
LTE B25	QPSK	26340	1880	1	0	Leftt Cheek	0mm	0.066	0.102	0.043	0.017	0.047	0.053	0.046	0.053	0.062	0.059	0.089	0.073	0.049	0.036	0.055
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	8	22	36	50	64	78	92	106	120	134	148	162	176
LTE B26	QPSK	26865	831.5	1	0	Right Cheek	0mm	0.213	0.279	0.092	0.002	0.029	0.161	0.053	0.131	0.107	0.142	0.114	0.241	0.106	0.009	0.125
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	9	23	37	51	65	79	93	107	121	135	149	163	177
LTE B38(HPUE	QPSK	38000	2595	1	0	Right Cheek	0mm	0.041	0.568	0.038	0.045	0.035	0.037	0.033	0.032	0.045	0.031	0.041	0.036	0.074	0.043	0.037
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	10	24	38	52	66	80	94	108	122	136	150	164	178
LTE B41	QPSK	40620	2593	1	0	Right Cheek	0mm	0.078	0.147	0.027	0.028	0.024	0.052	0.027	0.054	0.027	0.057	0.027	0.025	0.054	0.033	0.065
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	11	25	39	53	67	81	95	109	123	137	151	165	179
LTE B66	QPSK	132322	1745	1	0	Leftt Cheek	0mm	0.051	0.082	0.290	0.031	0.027	0.067	0.027	0.810	0.039	0.076	0.042	0.029	0.053	0.035	0.059
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	12	26	40	54	68	82	96	110	124	138	152	166	180
FR1 n5	QPSK	167300	836.5	1	1	Right Cheek	0mm	0.152	0.195	0.005	0.046	0.118	0.029	0.087	0.038	0.136	0.006	0.137	0.128	0.039	0.122	0.141
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	13	27	41	55	69	83	97	111	125	139	153	167	181
FR1 n7	QPSK	507000	2535	108	54	Right Cheek	0mm	0.055	0.103	0.030	0.030	0.029	0.031	0.033	0.033	0.033	0.031	0.028	0.029	0.030	0.036	0.033



Body (Antenna #0, Slave ID=6)																							
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
WCDMA B2	RMC 12.2Kbps	9262	1852.4	N/A	N/A	Back	5mm	0.897	1.66	0.215	0.334	0.318	0.329	0.374	0.254	0.382	0.428	0.262	0.349	0.341	0.223	0.370	0.451
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
WCDMA B4	RMC 12.2Kbps	1513	1752.6	N/A	N/A	Back	5mm	0.979	2.250	0.339	0.381	0.307	0.434	0.386	0.316	0.398	0.587	0.241	0.386	0.309	0.205	0.666	0.243
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
WCDMA B5	RMC 12.2Kbps	4132	826.4	N/A	N/A	Back	5mm	0.984	2.24	0.424	1.357	0.013	0.887	1.831	0.412	1.618	0.694	0.689	0.474	1.129	0.503	0.051	0.787
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B12	QPSK	23095	707.5	1	0	Back	5mm	0.926	2.08	1.047	0.317	0.038	0.402	0.002	0.501	0.233	0.339	0.084	0.019	0.259	0.091	0.166	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B13	QPSK	23230	782	1	0	Back	5mm	0.96	2.06	0.855	0.308	0.074	1.332	0.152	0.298	0.071	0.655	0.035	0.272	0.391	0.300	1.108	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B25	QPSK	26340	1880	1	0	Back	5mm	0.982	2.12	0.287	0.153	0.298	0.351	0.292	0.328	0.473	0.363	0.691	0.473	0.305	0.311	0.403	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B26	QPSK	26865	831.5	1	0	Back	5mm	0.956	1.78	0.482	0.028	0.174	0.771	0.292	0.513	0.507	0.601	0.424	0.981	0.430	0.566	0.039	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B38(HPUe	QPSK	38150	2610	1	0	Back	5mm	0.921	1.96	0.197	0.228	0.182	0.193	0.181	0.184	0.219	0.166	0.221	0.191	0.391	0.268	0.160	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B41	QPSK	40185	2549.5	1	0	Back	5mm	0.982	2.16	0.208	0.233	0.195	0.393	0.209	0.322	0.215	0.367	0.212	0.192	0.356	0.203	0.001	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
LTE B66	QPSK	132572	1770	1	0	Back	5mm	0.877	1.73	0.168	0.176	0.154	0.347	0.167	0.506	0.215	0.399	0.241	0.173	0.292	0.336	0.206	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
FR1 n5	QPSK	167300	836.5	1	1	Back	5mm	0.877	1.87	0.077	0.429	0.893	0.271	0.725	0.306	1.036	0.072	0.969	0.947	0.320	0.210	1.060	
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)														
FR1 n7	QPSK	507000	2535	1	1	Back	5mm	0.933	2.01	0.544	0.380	0.609	0.461	0.350	0.474	0.365	0.375	0.388	0.491	0.304	0.409	0.624	









Head (Antenna #1, Slave ID=6)																						
Mode	Service/ Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR	Average Value of Time Sweep (W/kg)													
									Auto-Tune	1	13	25	37	49	61	73	85	97	109	121	133	145
WCDMA B5	RMC 12.2Kbps	4132	826.4	N/A	N/A	Back	5mm	0.867	1.74	0.078	0.699	0.672	0.221	0.182	1.106	0.861	0.563	0.135	0.834	0.741	0.033	0.156
									0.178	0.699	0.672	0.221	0.182	1.106	0.861	0.563	0.135	0.834	0.741	0.033	0.156	0.178
LTE B12	QPSK	23095	707.5	1	0	Top Side	5mm	0.531	Average Value of Time Sweep (W/kg)													
									Auto-Tune	2	14	26	38	50	62	74	86	98	110	122	134	146
LTE B13	QPSK	23230	782	1	0	Top Side	5mm	0.634	Average Value of Time Sweep (W/kg)													
									Auto-Tune	3	15	27	39	51	63	75	87	99	111	123	135	147
LTE B25	QPSK	26340	1880	1	0	Back	5mm	0.992	Average Value of Time Sweep (W/kg)													
									Auto-Tune	4	16	28	40	52	64	76	88	100	112	124	136	148
LTE B26	QPSK	26865	831.5	1	0	Top Side	5mm	0.679	Average Value of Time Sweep (W/kg)													
									Auto-Tune	5	17	29	41	53	65	77	89	101	113	125	137	149
LTE B38(HFUE)	QPSK	38150	2610	50	0	Back	5mm	0.939	Average Value of Time Sweep (W/kg)													
									Auto-Tune	6	18	30	42	54	66	78	90	102	114	126	138	150
LTE B41	QPSK	41490	2680	1	0	Back	5mm	0.985	Average Value of Time Sweep (W/kg)													
									Auto-Tune	7	19	31	43	55	67	79	91	103	115	127	139	151
LTE B66	QPSK	132572	1770	1	0	Back	5mm	0.943	Average Value of Time Sweep (W/kg)													
									Auto-Tune	8	20	32	44	56	68	80	92	104	116	128	140	152
FR1 n7	QPSK	507000	2535	108	54	Back	5mm	0.885	Average Value of Time Sweep (W/kg)													
									Auto-Tune	9	21	33	45	57	69	81	93	105	117	129	141	153
FR1 n38	QPSK	519000	2595	50	28	Back	5mm	0.977	Average Value of Time Sweep (W/kg)													
									Auto-Tune	10	22	34	46	58	70	82	94	106	118	130	142	154
FR1 n66	QPSK	349000	1745	108	54	Back	5mm	0.906	Average Value of Time Sweep (W/kg)													
									Auto-Tune	11	23	35	47	59	71	83	95	107	119	131	143	155

