

10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %

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 tables are shown as follows.



Full Power Mode for WWAN

GSM850 Ant0 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM 1 Tx slot	31.74	32.10	31.74	33.50	22.74	23.10	22.74	24.50
GPRS 1 Tx slot	31.78	32.18	31.82	33.50	22.78	23.18	22.82	24.50
GPRS 2 Tx slots	29.91	29.83	29.67	31.00	23.91	23.83	23.67	25.00
GPRS 3 Tx slots	28.26	28.38	28.12	29.00	24.00	24.12	23.86	24.74
GPRS 4 Tx slots	26.72	26.81	26.62	28.00	23.72	23.81	23.62	25.00
EDGE 1 Tx slot	25.50	25.64	25.52	26.50	16.50	16.64	16.52	17.50
EDGE 2 Tx slots	24.87	25.01	24.89	26.00	16.87	16.91	16.89	20.00
EDGE 3 Tx slots	23.27	23.34	23.34	24.50	16.01	16.08	16.08	20.24
EDGE 4 Tx slots	21.66	21.65	21.76	22.50	16.66	16.65	16.76	19.50

GSM1900 Ant0 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
GSM 1 Tx slot	29.03	28.87	29.17	30.50	20.03	19.87	20.17	21.50
GPRS 1 Tx slot	29.15	28.94	29.26	30.50	20.15	19.94	20.26	21.50
GPRS 2 Tx slots	26.71	26.44	26.81	28.00	20.71	20.44	20.81	22.00
GPRS 3 Tx slots	25.16	25.36	25.29	26.50	20.90	21.10	21.03	22.24
GPRS 4 Tx slots	23.41	23.76	23.74	24.50	20.41	20.76	20.74	21.50
EDGE 1 Tx slot	24.96	24.93	25.01	26.00	15.96	15.93	16.01	17.00
EDGE 2 Tx slots	23.87	23.96	23.92	25.00	17.87	17.96	17.92	19.00
EDGE 3 Tx slots	22.52	22.62	22.38	23.50	16.26	16.36	16.12	19.24
EDGE 4 Tx slots	20.84	20.97	20.72	22.00	17.84	17.97	17.72	19.00

Band TX Channel Rx Channel Frequency (MHz)	WCDMA II Ant0			Tune-up Limit (dBm)	WCDMA IV Ant0			Tune-up Limit (dBm)	WCDMA V Ant0			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
3GPP Rel 99	22.35	22.41	22.37	24.00	22.30	22.39	22.33	24.00	22.54	22.61	22.55	24.00
3GPP Rel 99	22.46	22.49	22.45	24.00	22.41	22.48	22.45	24.00	22.66	22.69	22.62	24.00
3GPP Rel 6	21.55	21.71	21.57	23.00	21.44	21.48	21.39	23.00	21.71	21.65	21.59	23.00
3GPP Rel 6	21.45	21.77	21.66	23.00	21.39	21.48	21.60	23.00	21.64	21.71	21.65	23.00
3GPP Rel 6	21.13	21.01	21.05	22.50	20.86	20.93	20.95	22.50	21.14	21.22	21.17	22.50
3GPP Rel 6	20.96	21.15	21.13	22.50	20.84	21.02	20.97	22.50	21.21	21.19	21.09	22.50
3GPP Rel 6	21.61	21.77	21.55	23.00	21.58	21.57	21.49	23.00	21.67	21.69	21.61	23.00
3GPP Rel 6	21.49	21.78	21.63	23.00	21.57	21.69	21.53	23.00	21.66	21.68	21.65	23.00
3GPP Rel 6	21.08	21.01	21.09	22.50	20.93	20.96	20.97	22.50	21.19	21.14	21.15	22.50
3GPP Rel 6	20.93	21.17	21.13	22.50	20.74	21.13	21.07	22.50	21.14	21.23	21.16	22.50
3GPP Rel 6	21.51	21.46	21.40	22.50	21.47	21.67	21.52	22.50	21.70	21.69	21.64	22.50
3GPP Rel 6	19.52	19.52	19.51	20.50	19.45	19.47	19.58	20.50	19.64	19.76	19.64	20.50
3GPP Rel 6	20.48	20.46	20.52	21.50	20.35	20.43	20.56	21.50	20.68	20.71	20.64	21.50
3GPP Rel 6	19.63	19.59	19.34	20.50	19.28	19.42	19.74	20.50	19.70	19.75	19.68	20.50
3GPP Rel 6	21.64	21.58	21.43	22.50	21.44	21.51	21.58	22.50	21.72	21.67	21.62	22.50



Band 2 Ant0 (1900MHz Band)										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up (dB)	MPE (dB)		
Channel										
1860 1880 1900										
20	QPSK	1	0	22.35	22.47	22.43			24	0
20	QPSK	1	48	22.36	22.44	22.46				
20	QPSK	1	96	22.42	22.43	22.44				
20	QPSK	50	0	21.39	21.63	21.46				
20	QPSK	50	24	21.39	21.63	21.46				
20	QPSK	50	50	21.41	21.61	21.48			23	1
20	QPSK	100	0	21.63	21.61	21.54				
20	16QAM	50	0	21.84	21.92	21.99				
20	16QAM	1	48	21.81	21.92	21.99				
20	16QAM	1	96	21.88	21.96	21.94				
20	16QAM	50	0	20.99	20.91	20.98				
20	16QAM	50	24	20.93	20.92	20.90			22	2
20	16QAM	50	50	20.81	20.88	20.74				
20	16QAM	100	0	20.99	20.98	20.90				
20	84QAM	1	0	20.78	20.79	20.79				
20	84QAM	1	48	20.80	20.82	20.89			22	2
20	84QAM	1	96	20.76	20.73	20.89				
20	84QAM	50	0	19.85	19.85	19.72				
20	84QAM	50	24	19.87	19.94	19.82			21	3
20	84QAM	50	50	19.87	19.86	19.68				
20	84QAM	100	0	19.87	19.86	19.68				
20	84QAM	1	48	17.83	17.88	17.75			19	5
20	256QAM	1	96	17.87	17.89	17.89				
20	256QAM	50	0	17.86	17.84	17.84				
20	256QAM	50	24	17.85	17.81	17.59				
20	256QAM	50	50	17.88	17.83	17.88			19	5
20	256QAM	100	0	17.85	17.82	17.82				
Channel										
1897.5 1880 1902.5										
15	QPSK	1	0	22.21	22.27	22.27			24	0
15	QPSK	1	37	22.23	22.23	22.21				
15	QPSK	1	74	22.26	22.41	22.39				
15	QPSK	36	0	21.24	21.30	21.37				
15	QPSK	36	24	21.23	21.48	21.07			23	1
15	QPSK	36	39	21.29	21.46	21.31				
15	QPSK	75	0	21.95	21.42	21.43				
15	QPSK	1	0	21.86	21.86	21.80				
15	16QAM	1	37	21.77	21.84	21.93			23	1
15	16QAM	1	74	21.81	21.81	21.81				
15	16QAM	36	0	20.99	20.94	20.98				
15	16QAM	36	24	20.90	20.87	20.93			22	2
15	16QAM	36	39	20.95	20.95	20.98				
15	16QAM	75	0	20.44	20.51	20.50				
15	84QAM	1	0	20.73	20.60	20.73			22	2
15	84QAM	1	37	20.76	20.76	20.76				
15	84QAM	1	74	20.68	20.65	20.60				
15	84QAM	36	0	19.82	19.49	19.80			21	3
15	84QAM	36	24	19.84	19.85	19.80				
15	84QAM	36	39	19.50	19.50	19.53				
15	84QAM	75	0	19.67	19.54	19.62				
15	256QAM	1	37	17.46	17.46	17.46			19	5
15	256QAM	1	74	17.48	17.54	17.53				
15	256QAM	1	111	17.45	17.63	17.69				
15	256QAM	36	0	17.45	17.45	17.45				
15	256QAM	36	24	17.54	17.46	17.56			19	5
15	256QAM	36	39	17.64	17.46	17.61				
15	256QAM	75	0	17.56	17.56	17.54				
Channel										
1890 1890 1905										
10	QPSK	1	0	22.07	22.12	22.12			24	0
10	QPSK	1	25	22.00	22.11	22.12				
10	QPSK	1	49	22.13	22.13	22.07				
10	QPSK	12	0	21.11	21.11	21.11				
10	QPSK	25	12	21.15	21.31	21.05			23	1
10	QPSK	25	25	21.09	21.33	21.12				
10	16QAM	1	0	21.46	21.57	21.84				
10	16QAM	1	26	21.66	21.68	21.63			23	1
10	16QAM	1	49	21.71	21.71	21.71				
10	16QAM	25	0	20.39	20.35	20.35				
10	16QAM	25	12	20.26	20.32	20.32			22	2
10	16QAM	25	25	20.30	20.30	20.30				
10	16QAM	50	0	20.25	20.28	20.34				
10	84QAM	1	0	20.47	20.39	20.45			22	2
10	84QAM	1	26	20.57	20.50	20.50				
10	84QAM	1	49	20.49	20.34	20.47				
10	84QAM	25	0	19.31	19.40	19.43				
10	84QAM	25	12	19.28	19.28	19.29				
10	84QAM	25	25	19.30	19.28	19.19			21	3
10	84QAM	50	0	19.30	19.37	19.40				
10	84QAM	50	12	17.40	17.40	17.40				
10	256QAM	1	26	17.28	17.43	17.45			19	5
10	256QAM	1	49	17.32	17.39	17.43				
10	256QAM	12	0	17.34	17.36	17.37				
10	256QAM	25	12	17.31	17.31	17.34			19	5
10	256QAM	25	25	17.32	17.36	17.41				
10	256QAM	50	0	17.28	17.30	17.34				
Channel										
1892.5 1890 1907.5										
5	QPSK	1	0	22.03	22.07	22.07			24	0
5	QPSK	1	12	22.12	22.10	22.14				
5	QPSK	1	24	22.26	22.25	22.31				
5	QPSK	12	0	21.11	21.11	21.05				
5	QPSK	12	7	21.26	21.42	21.33			23	1
5	QPSK	12	13	21.25	21.44	21.30				
5	QPSK	25	0	21.02	21.14	21.04				
5	16QAM	1	0	21.34	21.48	21.45				
5	16QAM	1	12	21.47	21.36	21.45			23	1
5	16QAM	1	24	21.53	21.52	21.57				
5	16QAM	12	0	20.11	20.14	20.20				
5	16QAM	12	7	20.06	20.15	20.09			22	2
5	16QAM	12	13	20.16	20.21	20.22				
5	16QAM	25	0	20.07	20.14	20.15				
5	84QAM	1	0	20.21	20.20	20.27			22	2
5	84QAM	1	12	20.34	20.28	20.32				
5	84QAM	1	24	20.20	20.20	20.15				
5	84QAM	12	0	18.12	18.08	18.20			21	3
5	84QAM	12	7	19.10	19.10	19.09				
5	84QAM	12	13	19.08	19.06	19.00				
5	84QAM	25	0	19.21	19.22	19.22				
5	256QAM	1	12	17.44	17.39	17.40			19	5
5	256QAM	1	24	17.12	17.15	17.26				
5	256QAM	12	0	17.08	17.18	17.08				
5	256QAM	12	7	17.22	17.10	17.04			19	5
5	256QAM	12	13	17.16	17.07	17.15				
5	256QAM	25	0	17.10	17.16	17.27				
Channel										
1861.5 1890 1918.5										
3	QPSK	1	0	22.08	22.25	22.31			24	0
3	QPSK	1	8	22.14	22.23	22.27				
3	QPSK	1	14	22.16	22.27	22.24				
3	QPSK	8	0	21.08	21.35	21.32				
3	QPSK	8	4	21.22	21.40	21.14			23	1
3	QPSK	8	7	21.26	21.40	21.34				
3	QPSK	15	0	21.26	21.35	21.35				
3	16QAM	1	0	21.84	21.67	21.74				
3	16QAM	1	8	21.71	21.79	21.75			23	1
3	16QAM	1	14	21.80	21.74	21.68				
3	16QAM	8	0	20.52	20.37	20.52				
3	16QAM	8	4	20.29	20.43	20.38			22	2
3	16QAM	8	7	20.43	20.50	20.46				
3	16QAM	15	0	20.46	20.33	20.36				
3	84QAM	1	0	20.62	20.48	20.69			22	2
3	84QAM	1	8	20.93	20.89	20.87				
3	84QAM	1	14	20.52	20.56	20.48				
3	84QAM	8	0	19.42</						



Band 12 Ant0 (700MHz Low Band) Part 27F(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Time-up (min)	MFR (dB)			
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.71	22.81	22.85	24	0		
10	QPSK	1	49	22.58	22.61	22.80				
10	QPSK	25	0	21.89	21.87	21.90				
10	QPSK	25	12	21.63	21.61	21.64				
10	QPSK	25	25	21.77	21.83	21.84	23	1		
10	QPSK	50	0	21.72	21.76	21.70				
10	16QAM	1	0	21.85	21.91	21.92				
10	16QAM	1	25	22.26	22.21	22.30	23	1		
10	16QAM	1	49	21.87	21.82	21.93				
10	16QAM	25	0	20.79	20.86	20.89				
10	16QAM	25	12	20.71	20.72	20.75	22	2		
10	16QAM	25	25	20.76	20.77	20.86				
10	16QAM	50	0	20.72	20.75	20.83				
10	64QAM	1	0	20.77	20.77	20.73				
10	64QAM	1	25	20.82	20.86	20.89	22	2		
10	64QAM	1	49	20.82	20.76	20.77				
10	64QAM	25	0	19.80	19.85	19.81				
10	64QAM	25	12	19.81	19.76	19.72	21	3		
10	64QAM	25	25	19.79	19.85	19.86				
10	64QAM	50	0	19.89	19.77	19.87				
10	256QAM	1	0	17.84	17.81	17.86				
10	256QAM	25	0	17.75	17.75	17.70	19	5		
10	256QAM	1	49	17.86	17.89	18.07				
10	256QAM	25	12	17.83	17.85	17.87				
10	256QAM	25	25	17.89	17.85	17.87	19	5		
10	256QAM	50	0	17.77	17.71	17.80				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.53	22.56	22.56	24	0		
5	QPSK	1	24	22.51	22.59	22.45				
5	QPSK	12	0	21.53	21.65	21.71				
5	QPSK	12	7	21.48	21.52	21.53	23	1		
5	QPSK	12	13	21.61	21.66	21.70				
5	QPSK	25	0	21.74	21.86	21.74				
5	16QAM	1	0	21.77	21.86	21.75				
5	16QAM	1	12	22.14	22.08	22.24	23	1		
5	16QAM	1	24	21.87	21.86	21.86				
5	16QAM	12	0	20.70	20.71	20.83				
5	16QAM	12	7	20.68	20.54	20.63	22	2		
5	16QAM	12	13	20.69	20.79	20.72				
5	16QAM	25	0	20.64	20.71	20.80				
5	64QAM	1	0	20.70	20.74	20.56	22	2		
5	64QAM	1	12	20.59	20.59	20.59				
5	64QAM	1	24	20.53	20.53	20.74				
5	64QAM	12	0	19.74	19.83	19.75				
5	64QAM	12	7	19.82	19.82	19.60	21	3		
5	64QAM	12	13	19.87	19.85	19.69				
5	64QAM	25	0	19.87	19.82	19.84				
5	256QAM	1	0	17.79	17.77	17.77				
5	256QAM	1	12	17.70	17.69	17.57	19	5		
5	256QAM	1	24	17.90	17.91	17.88				
5	256QAM	12	0	17.46	17.62	17.56				
5	256QAM	12	7	17.72	17.67	17.78	19	5		
5	256QAM	12	13	17.86	17.68	17.66				
5	256QAM	25	0	17.67	17.71	17.71				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.61	22.52	24	0		
1.4	QPSK	1	5	22.39	22.43	22.55				
1.4	QPSK	1	5	22.35	22.31	22.34				
1.4	QPSK	3	0	22.55	22.53	22.72				
1.4	QPSK	3	1	22.54	22.47	22.65				
1.4	QPSK	3	3	22.41	22.37	22.38	23	1		
1.4	16QAM	1	0	21.61	21.58	21.63				
1.4	16QAM	1	3	21.91	21.86	22.01				
1.4	16QAM	1	3	21.63	21.59	21.74	23	1		
1.4	16QAM	3	0	21.59	21.49	21.58				
1.4	16QAM	3	1	21.72	21.76	21.64				
1.4	16QAM	3	1	22.02	22.04	22.06				
1.4	16QAM	6	0	20.37	20.54	20.51	22	2		
1.4	16QAM	1	0	20.43	20.55	20.49				
1.4	64QAM	1	0	20.69	20.51	20.59	22	2		
1.4	64QAM	1	6	20.33	20.48	20.47				
1.4	64QAM	3	0	20.49	20.62	20.68				
1.4	64QAM	3	3	20.79	20.69	20.83				
1.4	64QAM	6	0	19.34	19.46	19.51	21	3		
1.4	256QAM	1	0	17.61	17.66	17.59				
1.4	256QAM	1	3	17.28	17.34	17.15				
1.4	256QAM	1	5	17.51	17.46	17.58	19	5		
1.4	256QAM	3	0	17.94	17.26	17.23				
1.4	256QAM	3	1	17.39	17.20	17.31				
1.4	256QAM	3	1	17.28	17.16	17.26	19	5		

Band 13 Ant0(700MHz Band) Part 27F										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Time-up (min)	MFR (dB)			
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.64	22.65	22.65	24	0		
10	QPSK	1	49	22.62	22.62	22.62				
10	QPSK	25	0	21.61	21.61	21.61				
10	QPSK	25	12	21.62	21.62	21.62	23	1		
10	QPSK	25	25	21.71	21.71	21.71				
10	QPSK	50	0	21.70	21.70	21.70				
10	16QAM	1	25	22.08	22.08	22.08	23	1		
10	16QAM	1	49	22.06	22.06	22.06				
10	16QAM	25	0	20.74	20.74	20.74				
10	16QAM	25	12	20.51	20.51	20.51	22	2		
10	16QAM	25	25	20.59	20.59	20.59				
10	16QAM	50	0	20.57	20.57	20.57				
10	64QAM	1	25	20.85	20.85	20.85	22	2		
10	64QAM	1	49	20.55	20.55	20.55				
10	64QAM	25	0	19.89	19.89	19.89				
10	64QAM	25	12	19.83	19.83	19.83	21	3		
10	64QAM	25	25	19.85	19.85	19.85				
10	64QAM	50	0	19.81	19.81	19.81				
10	256QAM	1	0	17.71	17.71	17.71				
10	256QAM	1	25	17.65	17.65	17.65	19	5		
10	256QAM	25	12	17.61	17.61	17.61				
10	256QAM	25	25	17.65	17.65	17.65	19	5		
10	256QAM	50	0	17.61	17.61	17.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.40	22.48	22.48	24	0		
5	QPSK	1	12	22.38	22.34	22.32				
5	QPSK	1	24	22.32	22.38	22.38				
5	QPSK	12	0	21.33	21.35	21.32				
5	QPSK	12	7	21.46	21.46	21.51	23	1		
5	QPSK	12	13	21.43	21.49	21.49				
5	QPSK	25	0	21.54	21.59	21.69				
5	16QAM	1	0	21.93	21.96	21.95				
5	16QAM	1	12	21.78	21.83	21.91	23	1		
5	16QAM	1	24	21.83	21.89	21.85				
5	16QAM	12	0	20.58	20.66	20.62				
5	16QAM	12	7	20.32	20.37	20.41	22	2		
5	16QAM	12	13	20.39	20.46	20.48				
5	16QAM	25	0	20.48	20.48	20.50				
5	64QAM	1	0	20.59	20.57	20.51	22	2		
5	64QAM	1	12	20.59	20.57	20.50				
5	64QAM	1	24	20.53	20.57	20.52				
5	64QAM	12	0	19.40	19.45	19.47				
5	64QAM	12	7	19.41	19.41	19.46	21	3		
5	64QAM	12	13	19.35	19.35	19.42				
5	64QAM	25	0	19.46	19.47	19.52				
5	256QAM	1	0	17.36	17.42	17.42				
5	256QAM	1	12	17.28	17.32	17.33	19	5		
5	256QAM	1	24	17.18	17.22	17.25				
5	256QAM	12	0	17.36	17.32	17.34				
5	256QAM	12	7	17.12	17.15	17.15	19	5		
5	256QAM	12	13	17.17	17.23	17.30				



Band 4 Ant1 ENDC (AWS Band) Part 27L (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Turn-up time (sec)	MPE (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.64	22.68	22.56				
20	QPSK	1	49	22.46	22.68	22.56		24	0	
20	QPSK	1	99	22.46	22.67	22.54				
20	QPSK	50	0	21.58	21.63	21.61				
20	QPSK	50	24	21.68	21.63	21.63				
20	QPSK	50	50	21.60	21.63	21.63		23	1	
20	QPSK	100	0	21.54	21.62	21.68				
20	16QAM	100	0	21.68	21.70	21.60				
20	16QAM	1	49	21.73	21.66	21.75		23	1	
20	16QAM	1	99	21.68	21.72	21.84				
20	16QAM	50	0	20.71	20.88	20.73				
20	16QAM	50	24	20.76	20.85	20.70		22	2	
20	16QAM	50	50	20.53	20.59	20.63				
20	16QAM	100	0	20.82	20.74	20.55				
20	16QAM	1	0	20.59	20.73	20.73				
20	16QAM	1	49	20.48	20.61	20.40		22	2	
20	16QAM	50	0	19.62	19.70	19.57				
20	16QAM	50	24	19.75	19.77	19.68				
20	16QAM	50	50	19.64	19.78	19.81		21	3	
20	16QAM	100	0	19.58	19.66	19.48				
20	16QAM	1	0	17.61	17.69	17.61				
20	256QAM	1	49	17.27	17.38	17.20		19	5	
20	256QAM	1	99	17.40	17.58	17.57				
20	256QAM	50	0	17.56	17.63	17.53				
20	256QAM	50	24	17.51	17.61	17.60		19	5	
20	256QAM	50	50	17.40	17.59	17.51				
20	256QAM	100	0	17.42	17.53	17.42				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.60	22.64	22.43				
15	QPSK	1	37	22.36	22.56	22.54		24	0	
15	QPSK	1	74	22.50	22.56	22.56				
15	QPSK	36	0	21.80	21.87	21.83				
15	QPSK	36	25	21.82	21.71	21.82				
15	QPSK	36	39	21.37	21.84	21.52		23	1	
15	QPSK	75	0	21.81	21.74	21.81				
15	QPSK	75	0	21.52	21.66	21.51				
15	16QAM	1	37	21.58	21.70	21.58		23	1	
15	16QAM	1	74	21.66	21.78	21.67				
15	16QAM	36	0	20.95	20.73	20.80				
15	16QAM	36	25	20.66	20.79	20.83		22	2	
15	16QAM	36	39	20.65	20.77	20.89				
15	16QAM	75	0	20.40	20.65	20.53				
15	16QAM	1	0	20.43	20.58	20.48				
15	16QAM	1	37	20.36	20.57	20.59		22	2	
15	16QAM	1	74	20.47	20.57	20.39				
15	16QAM	36	0	19.63	19.72	19.41				
15	16QAM	36	25	19.60	19.76	19.74				
15	16QAM	36	39	19.52	19.57	19.53		21	3	
15	16QAM	75	0	19.45	19.66	19.40				
15	256QAM	1	37	17.21	17.30	17.15		19	5	
15	256QAM	1	74	17.29	17.40	17.51				
15	256QAM	36	0	17.38	17.47	17.30				
15	256QAM	36	25	17.36	17.59	17.50		19	5	
15	256QAM	36	39	17.43	17.50	17.47				
15	256QAM	75	0	17.38	17.47	17.44				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.60	22.64	22.43				
10	QPSK	1	25	22.46	22.42	22.35		24	0	
10	QPSK	1	49	22.44	22.48	22.43				
10	QPSK	1	99	22.46	22.48	22.47				
10	QPSK	25	12	21.98	21.78	21.88				
10	QPSK	25	25	21.49	21.61	21.54		23	1	
10	QPSK	25	39	21.38	21.63	21.52				
10	16QAM	1	0	21.98	21.57	21.57				
10	16QAM	1	25	21.67	21.51	21.57		23	1	
10	16QAM	25	0	20.61	20.66	20.68				
10	16QAM	25	12	20.57	20.64	20.60		22	2	
10	16QAM	25	25	20.40	20.66	20.55				
10	16QAM	50	0	20.50	20.59	20.55				
10	16QAM	1	0	20.62	20.60	20.65				
10	16QAM	1	25	20.38	20.57	20.59		22	2	
10	16QAM	1	49	20.47	20.53	20.37				
10	16QAM	25	0	19.48	19.58	19.47				
10	16QAM	25	12	19.48	19.67	19.54		21	3	
10	16QAM	25	25	19.40	19.67	19.54				
10	16QAM	50	0	19.49	19.49	19.56				
10	256QAM	1	25	17.48	17.48	17.50		19	5	
10	256QAM	1	49	17.31	17.46	17.59				
10	256QAM	12	0	17.33	17.56	17.67				
10	256QAM	25	12	17.39	17.47	17.47		19	5	
10	256QAM	25	25	17.44	17.43	17.45				
10	256QAM	50	0	17.30	17.47	17.37				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.67	22.63	22.45				
5	QPSK	1	12	22.49	22.45	22.47		24	0	
5	QPSK	1	24	22.54	22.52	22.45				
5	QPSK	12	0	21.90	21.76	21.88				
5	QPSK	12	7	21.54	21.85	21.69				
5	QPSK	12	13	21.38	21.85	21.44		23	1	
5	QPSK	25	0	21.48	21.60	21.65				
5	16QAM	1	0	21.62	21.68	21.44				
5	16QAM	1	12	21.51	21.61	21.70		23	1	
5	16QAM	12	0	21.67	21.73	21.67				
5	16QAM	12	0	20.66	20.69	20.86				
5	16QAM	12	7	20.61	20.83	20.78		22	2	
5	16QAM	25	0	20.58	20.59	20.68				
5	16QAM	25	0	20.51	20.64	20.41				
5	16QAM	1	0	20.46	20.60	20.62				
5	16QAM	1	12	20.50	20.59	20.41		22	2	
5	16QAM	1	24	20.38	20.56	20.48				
5	16QAM	12	0	19.50	19.56	19.54				
5	16QAM	12	7	19.40	19.76	19.60				
5	16QAM	12	13	19.47	19.64	19.45		21	3	
5	16QAM	25	0	19.46	19.48	19.40				
5	256QAM	1	0	17.40	17.47	17.58				
5	256QAM	1	12	17.25	17.27	17.12		19	5	
5	256QAM	1	24	17.22	17.49	17.51				
5	256QAM	12	0	17.44	17.50	17.51				
5	256QAM	12	7	17.50	17.49	17.53		19	5	
5	256QAM	12	13	17.49	17.49	17.53				
5	256QAM	25	0	17.37	17.44	17.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.48	22.52	22.42				
3	QPSK	1	8	22.31	22.42	22.36		24	0	
3	QPSK	1	14	22.47	22.54	22.44				
3	QPSK	8	0	21.53	21.65	21.53				
3	QPSK	8	4	21.59	21.63	21.66				
3	QPSK	8	7	21.37	21.63	21.58		23	1	
3	QPSK	15	0	21.49	21.69	21.62				
3	16QAM	1	0	21.61	21.65	21.50				
3	16QAM	1	8	21.51	21.64	21.61		23	1	
3	16QAM	15	0	21.64	21.66	21.67				
3	16QAM	8	0	20.59	20.68	20.55				
3	16QAM	8	4	20.65	20.87	20.72		22	2	
3	16QAM	15	0	20.56	20.56	20.68				
3	16QAM	15	0	20.36	20.45	20.46				
3	16QAM	1	0	20.43	20.69	20.66				
3	16QAM	1	8	20.45	20.49	20.27		22	2	
3	16QAM	1	14	20.38	20.50	20.42				
3	16QAM	8	0	19.48	19.76	19.53				
3	16QAM	8	4	19.53	19.76	19.83				
3	16QAM									



Band 38 Ant1 ENDC(only on channel required)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)				37850	38000	38150						
20	QPSK	1	0	22.21	22.37	22.16	24	0				
20	QPSK	1	49	22.10	22.18	22.13						
20	QPSK	1	99	22.10	22.22	22.11						
20	QPSK	50	0	22.00	22.16	21.95	23	1				
20	QPSK	50	24	22.05	22.13	22.08						
20	QPSK	50	50	21.97	22.08	21.95						
20	QPSK	100	0	21.95	22.11	21.95	23	1				
20	16QAM	1	0	21.86	22.01	21.94						
20	16QAM	1	49	22.01	22.10	22.04						
20	16QAM	1	99	22.07	22.09	22.04	22	2				
20	16QAM	50	0	21.08	21.17	21.05						
20	16QAM	50	24	21.09	21.24	21.10						
20	16QAM	50	50	21.12	21.20	21.07	22	2				
20	16QAM	100	0	21.10	21.15	21.04						
20	64QAM	1	0	21.11	21.17	21.10						
20	64QAM	1	49	20.89	20.93	20.83	22	2				
20	64QAM	1	99	21.12	21.23	21.11						
20	64QAM	50	0	20.00	20.15	19.99						
20	64QAM	50	24	20.11	20.18	20.10	21	3				
20	64QAM	50	50	20.04	20.17	20.08						
20	64QAM	100	0	20.00	20.07	20.02						
20	256QAM	1	0	18.24	18.27	18.25	19	5				
20	256QAM	1	49	18.00	18.12	18.11						
20	256QAM	1	99	17.91	18.06	17.92						
20	256QAM	50	0	18.08	18.10	17.99	19	5				
20	256QAM	50	24	18.03	18.09	17.93						
20	256QAM	50	50	18.01	18.06	17.98						
20	256QAM	100	0	18.09	18.11	17.94	20	5				
Channel												
Frequency (MHz)				37825	38000	38175						
15	QPSK	1	0	22.21	22.27	22.06	24	0				
15	QPSK	1	37	22.08	22.03	22.02						
15	QPSK	1	74	22.00	22.13	22.07						
15	QPSK	36	0	21.93	22.05	21.84	23	1				
15	QPSK	36	20	21.97	22.09	21.97						
15	QPSK	36	39	21.90	22.03	21.81						
15	QPSK	75	0	21.83	22.01	21.81	23	1				
15	16QAM	1	0	21.73	21.91	21.89						
15	16QAM	1	37	21.90	22.00	21.89						
15	16QAM	1	74	21.98	21.94	21.90	22	2				
15	16QAM	36	0	21.03	21.09	20.99						
15	16QAM	36	20	21.02	21.16	21.00						
15	16QAM	36	39	21.00	21.05	20.93	22	2				
15	16QAM	75	0	20.96	21.07	20.89						
15	64QAM	1	0	21.06	21.07	20.98						
15	64QAM	1	37	20.73	20.86	20.79	22	2				
15	64QAM	1	74	20.96	21.15	20.99						
15	64QAM	36	0	19.87	20.05	19.83						
15	64QAM	36	20	20.06	20.06	20.03	21	3				
15	64QAM	36	39	20.00	20.01	19.98						
15	64QAM	75	0	19.91	19.97	19.88						
15	256QAM	1	0	18.20	18.24	18.10	19	5				
15	256QAM	1	37	17.90	18.09	18.08						
15	256QAM	1	74	17.77	17.91	17.91						
15	256QAM	36	0	18.03	18.00	17.92	19	5				
15	256QAM	36	20	17.88	17.96	17.88						
15	256QAM	36	39	17.84	17.96	17.91						
15	256QAM	75	0	18.07	18.07	17.85	20	5				
Channel												
Frequency (MHz)				37800	38000	38200						
10	QPSK	1	0	22.24	22.33	22.05	24	0				
10	QPSK	1	25	22.04	22.13	22.08						
10	QPSK	1	49	22.08	22.14	22.02						
10	QPSK	25	0	21.94	22.08	21.90	23	1				
10	QPSK	25	12	21.99	21.98	22.00						
10	QPSK	25	25	21.93	21.95	21.85						
10	QPSK	50	0	21.83	21.99	21.82	23	1				
10	16QAM	1	0	21.76	21.95	21.86						
10	16QAM	1	25	21.90	21.99	21.97						
10	16QAM	1	49	21.94	22.04	21.98	22	2				
10	16QAM	25	0	20.94	21.10	20.97						
10	16QAM	25	12	20.93	21.09	21.00						
10	16QAM	25	25	20.96	21.09	20.98	22	2				
10	16QAM	50	0	20.96	21.06	20.93						
10	64QAM	1	0	20.99	21.06	20.95						
10	64QAM	1	25	20.78	20.84	20.68	22	2				
10	64QAM	1	49	21.03	21.08	21.02						
10	64QAM	25	0	19.89	20.07	19.86						
10	64QAM	25	12	19.98	20.11	20.00	21	3				
10	64QAM	25	25	19.96	20.09	20.04						
10	64QAM	50	0	19.94	19.94	19.88						
10	256QAM	1	0	18.14	18.16	18.24	19	5				
10	256QAM	1	25	17.97	18.03	17.94						
10	256QAM	1	49	17.79	17.98	17.83						
10	256QAM	25	0	18.02	18.06	17.94	19	5				
10	256QAM	25	12	18.00	18.00	17.80						
10	256QAM	25	25	17.94	17.92	17.88						
10	256QAM	50	0	18.08	17.96	17.94	20	5				
Channel												
Frequency (MHz)				37775	38000	38225						
5	QPSK	1	0	22.17	22.24	22.10	24	0				
5	QPSK	1	12	22.06	22.12	22.08						
5	QPSK	1	24	22.08	22.17	22.09						
5	QPSK	12	0	21.87	22.02	21.82	23	1				
5	QPSK	12	7	21.90	22.08	21.97						
5	QPSK	12	13	21.83	21.98	21.87						
5	QPSK	25	0	21.82	22.02	21.80	23	1				
5	16QAM	1	0	21.72	21.90	21.86						
5	16QAM	1	12	21.94	22.03	21.98						
5	16QAM	1	24	21.98	21.95	21.99	22	2				
5	16QAM	12	0	21.03	21.03	20.90						
5	16QAM	12	7	21.01	21.14	21.04						
5	16QAM	12	13	21.01	21.09	21.01	22	2				
5	16QAM	25	0	21.03	21.06	21.00						
5	64QAM	1	0	21.04	21.10	20.99						
5	64QAM	1	12	20.77	20.86	20.77	22	2				
5	64QAM	1	24	21.03	21.16	20.96						
5	64QAM	12	0	19.86	20.01	19.88						
5	64QAM	12	7	20.04	20.12	19.97	21	3				
5	64QAM	12	13	19.92	20.10	19.96						
5	64QAM	25	0	19.94	20.02	19.90						
5	256QAM	1	0	18.19	18.12	18.23	19	5				
5	256QAM	1	12	17.98	17.98	18.00						
5	256QAM	1	24	17.90	17.97	17.87						
5	256QAM	12	0	18.02	17.97	17.98	19	5				
5	256QAM	12	7	17.95	18.03	17.99						
5	256QAM	12	13	18.00	17.91	17.88						
5	256QAM	25	0	18.09	17.97	17.85	20	5				

Band 41 Ant1 ENDC (2.6G Band)												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel												
Frequency (MHz)				39750	40185	40620	41055	41490				
20	QPSK	1	0	23.15	23.11	23.21	23.17	23.13	24	0		
20	QPSK	1	49	23.08	22.95	23.16	23.07	23.09				
20	QPSK	1	99	22.98	22.98	23.05	22.92	22.97				
20	QPSK	50	0	22.33	22.33	22.41	22.21	22.31	23	1		
20	QPSK	50	24	22.21	22.22	22.30	22.15	22.16				
20	QPSK	50	50	22.18	22.17	22.32	22.28	22.24				
20	QPSK	100	0	22.21	22.22	22.37	22.19	22.25	23	1		
20	16QAM	1	0	22.18	22.25	22.31	22.27	22.25				
20	16QAM	1	49	22.32	22.16	22.25	22.20	22.32				
20	16QAM	1	99	22.32	22.31	22.29	22.32	22.26	22	2		
20	16QAM	50	0	21.48	21.46	21.57	21.42	21.48				
20	16QAM	50	24	21.45	21.47	21.53	21.41	21.40				
20	16QAM	50	50	21.54	21.52	21.66	21.51	21.60	22	2		
20	16QAM	100	0	21.51	21.52	21.63	21.59	21.58				
20	64QAM	1	0	21.40	21.47	21.51	21.44	21.38				



Band 42 Ant2 FCC (3.5GHz Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	22.82	22.83	22.80	24	0	
20	QPSK	1	49	22.80	22.82	22.82			
20	QPSK	1	99	22.74	22.80	22.81			
20	QPSK	50	0	21.85	21.90	21.86	23	1	
20	QPSK	50	24	21.88	21.92	21.91			
20	QPSK	50	50	21.82	21.89	21.96			
20	QPSK	100	0	21.95	21.95	21.94			
20	16QAM	1	0	21.90	21.86	21.83	23	1	
20	16QAM	1	49	21.76	21.83	21.88			
20	16QAM	1	99	21.78	21.79	21.82			
20	16QAM	50	0	20.94	20.94	20.97	22	2	
20	16QAM	50	24	21.01	20.99	21.02			
20	16QAM	50	50	20.98	20.95	20.96			
20	16QAM	100	0	20.98	20.99	21.06			
20	64QAM	1	0	20.43	20.49	20.54	22	2	
20	64QAM	1	49	20.49	20.53	20.60			
20	64QAM	1	99	20.46	20.50	20.55			
20	64QAM	50	0	19.90	19.94	19.95	21	3	
20	64QAM	50	24	19.93	20.00	20.03			
20	64QAM	50	50	19.87	19.95	19.94			
20	64QAM	100	0	19.95	19.96	20.02			
20	256QAM	1	0	17.70	17.75	17.81	19	5	
20	256QAM	1	49	17.71	17.88	17.72			
20	256QAM	1	99	17.79	17.75	17.79			
20	256QAM	50	0	17.95	17.98	17.95	19	5	
20	256QAM	50	24	18.04	18.03	18.04			
20	256QAM	50	50	17.99	17.99	17.98			
20	256QAM	100	0	17.90	17.98	18.04			
Channel				42185	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	22.75	22.73	22.69	24	0	
15	QPSK	1	37	22.76	22.73	22.73			
15	QPSK	1	74	22.62	22.67	22.71			
15	QPSK	36	0	21.75	21.77	21.78	23	1	
15	QPSK	36	20	21.80	21.77	21.79			
15	QPSK	36	39	21.75	21.77	21.83			
15	QPSK	75	0	21.81	21.87	21.84	23	1	
15	16QAM	1	0	21.71	21.71	21.83			
15	16QAM	1	37	21.61	21.76	21.80			
15	16QAM	1	74	21.65	21.68	21.73	22	2	
15	16QAM	36	0	20.79	20.88	20.84			
15	16QAM	36	20	20.92	20.93	20.90			
15	16QAM	36	39	20.87	20.89	20.88	22	2	
15	16QAM	75	0	20.83	20.86	20.91			
15	64QAM	1	0	20.34	20.36	20.50			
15	64QAM	1	37	20.36	20.44	20.50	22	2	
15	64QAM	1	74	20.33	20.38	20.49			
15	64QAM	36	0	19.75	19.78	19.82			
15	64QAM	36	20	19.81	19.86	19.88	21	3	
15	64QAM	36	39	19.77	19.90	19.86			
15	64QAM	75	0	19.83	19.84	19.92			
15	256QAM	1	0	17.56	17.67	17.70	19	5	
15	256QAM	1	37	17.64	17.52	17.63			
15	256QAM	1	74	17.69	17.66	17.64			
15	256QAM	36	0	17.84	17.81	17.88	19	5	
15	256QAM	36	20	17.98	17.90	17.98			
15	256QAM	36	39	17.89	17.94	17.94			
15	256QAM	75	0	17.83	17.88	17.90			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.73	22.68	22.62	24	0	
10	QPSK	1	25	22.70	22.68	22.61			
10	QPSK	1	49	22.57	22.65	22.70			
10	QPSK	25	0	21.75	21.74	21.73	23	1	
10	QPSK	25	12	21.67	21.74	21.77			
10	QPSK	25	25	21.65	21.68	21.83			
10	QPSK	50	0	21.82	21.81	21.81	23	1	
10	16QAM	1	0	21.71	21.69	21.79			
10	16QAM	1	25	21.64	21.62	21.76			
10	16QAM	1	49	21.58	21.65	21.66	22	2	
10	16QAM	25	0	20.84	20.82	20.77			
10	16QAM	25	12	20.91	20.84	20.89			
10	16QAM	25	25	20.84	20.74	20.81	22	2	
10	16QAM	50	0	20.81	20.88	20.96			
10	64QAM	1	0	20.29	20.35	20.35			
10	64QAM	1	25	20.32	20.40	20.46	22	2	
10	64QAM	1	49	20.31	20.40	20.34			
10	64QAM	25	0	19.75	19.75	19.75			
10	64QAM	25	12	19.78	19.89	19.86	21	3	
10	64QAM	25	25	19.68	19.80	19.83			
10	64QAM	50	0	19.78	19.80	19.92			
10	256QAM	1	0	17.52	17.55	17.67	19	5	
10	256QAM	1	25	17.51	17.59	17.53			
10	256QAM	1	49	17.59	17.62	17.67			
10	256QAM	25	0	17.82	17.88	17.82	19	5	
10	256QAM	25	12	17.94	17.83	17.86			
10	256QAM	25	25	17.89	17.81	17.78			
10	256QAM	50	0	17.76	17.82	17.84			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.60	22.85	22.86	24	0	
5	QPSK	1	12	22.60	22.61	22.65			
5	QPSK	1	24	22.55	22.63	22.67			
5	QPSK	12	0	21.69	21.72	21.69	23	1	
5	QPSK	12	7	21.65	21.75	21.71			
5	QPSK	12	13	21.60	21.65	21.72			
5	QPSK	25	0	21.74	21.81	21.76	23	1	
5	16QAM	1	0	21.60	21.67	21.78			
5	16QAM	1	12	21.62	21.60	21.69			
5	16QAM	1	24	21.65	21.58	21.59	22	2	
5	16QAM	12	0	20.79	20.74	20.82			
5	16QAM	12	7	20.77	20.76	20.87			
5	16QAM	12	13	20.76	20.77	20.78	22	2	
5	16QAM	25	0	20.75	20.76	20.85			
5	64QAM	1	0	20.27	20.35	20.32			
5	64QAM	1	12	20.29	20.30	20.40	22	2	
5	64QAM	1	24	20.21	20.28	20.33			
5	64QAM	12	0	19.77	19.76	19.81			
5	64QAM	12	7	19.74	19.81	19.84	21	3	
5	64QAM	12	13	19.66	19.77	19.72			
5	64QAM	25	0	19.72	19.77	19.77			
5	256QAM	1	0	17.51	17.57	17.59	19	5	
5	256QAM	1	12	17.51	17.44	17.48			
5	256QAM	1	24	17.55	17.54	17.57			
5	256QAM	12	0	17.73	17.84	17.77	19	5	
5	256QAM	12	7	17.81	17.79	17.86			
5	256QAM	12	13	17.85	17.84	17.82			
5	256QAM	25	0	17.68	17.79	17.87			



Band 7 Ant5 (2600MHz Band)									
Part 27									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	22.97	23.00	22.93	24	0	
20	QPSK	1	49	22.85	22.87	22.92			
20	QPSK	1	99	22.94	22.97	22.95			
20	QPSK	50	0	22.18	22.14	22.15	23	1	
20	QPSK	50	24	21.99	22.05	22.05			
20	QPSK	50	50	22.08	22.16	22.22			
20	QPSK	100	0	22.08	22.05	22.11	23	1	
20	16QAM	1	0	22.13	22.14	22.22			
20	16QAM	1	49	22.18	22.18	22.24			
20	16QAM	1	99	22.21	22.17	22.13	22	2	
20	16QAM	50	0	21.05	21.11	21.10			
20	16QAM	50	24	21.13	21.14	21.14			
20	16QAM	50	50	21.07	21.10	21.12	22	2	
20	16QAM	100	0	21.13	21.10	21.08			
20	64QAM	1	0	20.99	21.04	21.09			
20	64QAM	1	49	20.87	20.94	20.98	22	2	
20	64QAM	1	99	21.07	21.05	21.07			
20	64QAM	50	0	20.07	20.09	20.11			
20	64QAM	50	24	20.11	20.13	20.20	21	3	
20	64QAM	50	50	20.18	20.17	20.22			
20	64QAM	100	0	20.07	20.14	20.17			
20	256QAM	1	0	17.98	18.03	18.02	19	5	
20	256QAM	1	49	17.84	17.92	17.90			
20	256QAM	1	99	18.03	18.05	18.01			
20	256QAM	50	0	18.06	18.04	18.10	19	5	
20	256QAM	50	24	18.08	18.10	18.17			
20	256QAM	50	50	18.15	18.12	18.09			
20	256QAM	100	0	18.03	18.07	18.10			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	22.82	22.87	22.77	24	0	
15	QPSK	1	37	22.71	22.74	22.76			
15	QPSK	1	74	22.89	22.82	22.84			
15	QPSK	36	0	22.10	22.06	22.08	23	1	
15	QPSK	36	20	21.90	21.90	21.91			
15	QPSK	36	39	21.94	22.01	22.10			
15	QPSK	75	0	21.99	21.91	21.98	23	1	
15	16QAM	1	0	22.04	22.02	22.15			
15	16QAM	1	37	22.06	22.07	22.14			
15	16QAM	1	74	22.15	22.07	22.06	22	2	
15	16QAM	36	0	20.99	20.98	20.98			
15	16QAM	36	20	21.06	21.02	21.05			
15	16QAM	36	39	21.02	21.04	21.08	22	2	
15	16QAM	75	0	20.99	21.03	20.99			
15	64QAM	1	0	20.85	20.98	21.04			
15	64QAM	1	37	20.80	20.87	20.85	22	2	
15	64QAM	1	74	21.01	21.00	20.97			
15	64QAM	36	0	19.92	19.94	20.01			
15	64QAM	36	20	20.01	20.07	20.14	21	3	
15	64QAM	36	39	20.05	20.08	20.14			
15	64QAM	75	0	20.03	20.09	20.12			
15	256QAM	1	0	17.83	17.95	17.88	19	5	
15	256QAM	1	37	17.76	17.86	17.76			
15	256QAM	1	74	17.92	17.95	17.86			
15	256QAM	36	0	18.02	17.91	17.99	19	5	
15	256QAM	36	20	17.96	18.03	18.11			
15	256QAM	36	39	18.00	18.01	17.97			
15	256QAM	75	0	17.90	17.95	18.04			
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	22.73	22.79	22.69	24	0	
10	QPSK	1	25	22.62	22.63	22.70			
10	QPSK	1	49	22.69	22.81	22.80			
10	QPSK	25	0	22.04	21.99	21.93	23	1	
10	QPSK	25	12	21.81	21.87	21.87			
10	QPSK	25	25	21.83	21.97	21.96			
10	QPSK	50	0	21.94	21.84	21.93	23	1	
10	16QAM	1	0	21.96	21.90	22.04			
10	16QAM	1	25	21.97	22.01	22.05			
10	16QAM	1	49	22.06	21.98	21.90	22	2	
10	16QAM	25	0	20.85	20.96	20.92			
10	16QAM	25	12	20.89	20.91	20.89			
10	16QAM	25	25	20.92	20.85	20.89	22	2	
10	16QAM	50	0	20.96	20.88	20.88			
10	64QAM	1	0	20.84	20.84	20.84			
10	64QAM	1	25	20.81	20.75	20.77	22	2	
10	64QAM	1	49	20.87	20.90	20.87			
10	64QAM	25	0	19.91	19.88	19.93			
10	64QAM	25	12	19.91	19.96	20.02	21	3	
10	64QAM	25	25	19.96	19.92	19.97			
10	64QAM	50	0	19.81	19.91	19.98			
10	256QAM	1	0	17.81	17.87	17.84	19	5	
10	256QAM	1	25	17.60	17.74	17.75			
10	256QAM	1	49	17.80	17.88	17.78			
10	256QAM	25	0	17.84	17.87	17.90	19	5	
10	256QAM	25	12	17.83	17.90	17.97			
10	256QAM	25	25	18.00	17.97	17.90			
10	256QAM	50	0	17.78	17.91	17.91			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	22.65	22.65	22.53	24	0	
5	QPSK	1	12	22.50	22.47	22.59			
5	QPSK	1	24	22.57	22.66	22.61			
5	QPSK	12	0	21.88	21.83	21.85	23	1	
5	QPSK	12	7	21.59	21.72	21.67			
5	QPSK	12	13	21.69	21.76	21.85			
5	QPSK	25	0	21.71	21.70	21.73	23	1	
5	16QAM	1	0	21.74	21.83	21.81			
5	16QAM	1	12	21.88	21.86	21.93			
5	16QAM	1	24	21.91	21.84	21.81	22	2	
5	16QAM	12	0	20.86	20.71	20.76			
5	16QAM	12	7	20.72	20.75	20.80			
5	16QAM	12	13	20.76	20.70	20.74	22	2	
5	16QAM	25	0	20.84	20.77	20.70			
5	64QAM	1	0	20.88	20.75	20.79			
5	64QAM	1	12	20.57	20.64	20.61	22	2	
5	64QAM	1	24	20.73	20.64	20.66			
5	64QAM	12	0	19.77	19.71	19.76			
5	64QAM	12	7	19.76	19.76	19.83	21	3	
5	64QAM	12	13	19.78	19.82	19.84			
5	64QAM	25	0	19.77	19.81	19.78			
5	256QAM	1	0	17.63	17.70	17.69	19	5	
5	256QAM	1	12	17.48	17.51	17.58			
5	256QAM	1	24	17.64	17.67	17.64			
5	256QAM	12	0	17.71	17.71	17.76	19	5	
5	256QAM	12	7	17.77	17.72	17.81			
5	256QAM	12	13	17.75	17.80	17.73			
5	256QAM	25	0	17.69	17.69	17.77			



Band 38 Ant5(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (W)	Power Middle Co. (W)	Power High Co. (W)	Power High Mid Co. (W)	Power High Hi Co. (W)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				37950	38000	38150				
20	QPSK	1	0	23.18	23.34	23.24			24	0
20	QPSK	1	49	23.17	23.25	23.28			23	1
20	QPSK	1	99	23.20	23.32	23.22			22	2
20	QPSK	50	0	22.23	22.41	22.28			21	3
20	QPSK	50	24	22.14	22.28	22.22			20	4
20	QPSK	50	50	22.25	22.31	22.28			19	5
20	QPSK	100	0	22.21	22.45	22.37			18	5
20	16QAM	1	0	22.39	22.44	22.29			17	5
20	16QAM	1	49	22.37	22.39	22.34			16	5
20	16QAM	1	99	22.32	22.47	22.34			15	5
20	16QAM	50	0	21.18	21.29	21.23			14	5
20	16QAM	50	24	21.27	21.25	21.28			13	5
20	16QAM	50	50	21.25	21.32	21.23			12	5
20	16QAM	100	0	21.23	21.31	21.21			11	5
20	64QAM	1	0	20.69	21.13	21.06			10	5
20	64QAM	1	49	21.07	21.16	21.02			9	5
20	64QAM	1	99	21.05	21.17	21.02			8	5
20	64QAM	50	0	20.18	20.26	20.19			7	5
20	64QAM	50	24	20.16	20.30	20.21			6	5
20	64QAM	50	50	20.24	20.29	20.19			5	5
20	64QAM	100	0	20.24	20.35	20.22			4	5
20	256QAM	1	0	18.27	18.31	18.27			3	5
20	256QAM	1	49	18.06	18.19	18.05			2	5
20	256QAM	1	99	18.00	18.11	18.03			1	5
20	256QAM	50	0	17.87	18.25	18.10			0	5
20	256QAM	50	24	18.34	18.41	18.37			0	5
20	256QAM	50	50	18.27	18.40	18.30			0	5
20	256QAM	100	0	18.27	18.31	18.21			0	5
Channel										
Frequency (MHz)				38275	38325	38475				
15	QPSK	1	0	23.05	23.27	23.14			24	0
15	QPSK	1	31	23.07	23.13	23.19			24	0
15	QPSK	1	74	23.10	23.18	23.12			23	1
15	QPSK	36	0	22.20	22.27	22.22			23	1
15	QPSK	36	20	22.26	22.19	22.21			23	1
15	QPSK	36	39	22.29	22.23	22.21			23	1
15	QPSK	75	0	22.13	22.39	22.31			23	1
15	16QAM	1	0	22.25	22.26	22.24			23	1
15	16QAM	1	49	22.22	22.30	22.21			23	1
15	16QAM	1	99	22.19	22.34	22.20			22	2
15	16QAM	50	0	21.09	21.21	21.10			22	2
15	16QAM	50	24	21.17	21.20	21.20			22	2
15	16QAM	50	50	21.13	21.18	21.17			22	2
15	16QAM	100	0	20.97	21.11	20.98			21	3
15	64QAM	1	0	20.94	21.04	20.96			21	3
15	64QAM	1	37	20.94	21.02	20.98			21	3
15	64QAM	1	74	20.97	21.11	20.87			21	3
15	64QAM	36	0	20.10	20.11	20.06			21	3
15	64QAM	36	20	20.21	20.24	20.16			21	3
15	64QAM	36	39	20.16	20.21	20.13			21	3
15	64QAM	75	0	20.10	20.24	20.28			21	3
15	256QAM	1	0	18.27	18.30	18.27			19	5
15	256QAM	1	37	17.88	18.15	18.01			19	5
15	256QAM	1	74	17.86	17.89	17.89			19	5
15	256QAM	36	0	18.07	18.25	18.10			19	5
15	256QAM	36	20	18.30	18.31	18.32			19	5
15	256QAM	36	39	18.18	18.27	18.18			19	5
15	256QAM	75	0	18.27	18.31	18.21			19	5
Channel										
Frequency (MHz)				37950	38000	38050				
10	QPSK	1	0	23.14	23.25	23.09			24	0
10	QPSK	1	49	23.11	23.27	23.08			23	1
10	QPSK	25	0	22.16	22.26	22.15			23	1
10	QPSK	25	24	22.25	22.34	22.22			23	1
10	QPSK	25	25	22.15	22.24	22.22			23	1
10	QPSK	50	0	22.10	22.34	22.29			23	1
10	16QAM	1	0	22.28	22.32	22.28			23	1
10	16QAM	1	49	22.24	22.29	22.32			23	1
10	16QAM	25	0	21.18	21.25	21.31			22	2
10	16QAM	25	12	21.30	21.32	21.30			22	2
10	16QAM	25	25	21.20	21.20	21.26			22	2
10	16QAM	50	0	21.28	21.33	21.32			22	2
10	64QAM	1	0	21.10	21.16	21.13			22	2
10	64QAM	1	25	21.02	21.12	21.05			22	2
10	64QAM	1	49	20.95	21.00	21.07			21	3
10	64QAM	25	0	20.23	20.28	20.25			21	3
10	64QAM	25	12	20.34	20.21	20.29			21	3
10	64QAM	25	25	20.21	20.23	20.26			21	3
10	64QAM	50	0	20.30	20.34	20.41			20	4
10	256QAM	1	0	18.20	18.22	18.21			19	5
10	256QAM	1	25	18.27	18.26	18.36			19	5
10	256QAM	1	49	18.10	18.14	18.16			19	5
10	256QAM	25	0	18.33	18.32	18.43			19	5
10	256QAM	25	12	18.17	18.37	18.34			19	5
10	256QAM	25	25	18.27	18.39	18.49			19	5
10	256QAM	50	0	18.16	18.32	18.30			19	5
Channel										
Frequency (MHz)				38125	38175	38225				
5	QPSK	1	0	23.08	23.20	23.11			24	0
5	QPSK	1	24	23.09	23.12	23.09			24	0
5	QPSK	1	24	23.13	23.23	23.14			23	1
5	QPSK	12	0	22.16	22.26	22.21			23	1
5	QPSK	12	13	22.18	22.19	22.21			23	1
5	QPSK	25	0	22.08	22.36	22.25			23	1
5	16QAM	1	12	22.28	22.26	22.21			23	1
5	16QAM	1	24	22.21	22.41	22.28			22	2
5	16QAM	12	0	21.20	21.20	21.14			22	2
5	16QAM	12	7	21.18	21.24	21.16			22	2
5	16QAM	12	13	21.17	21.19	21.07			22	2
5	16QAM	25	0	21.18	21.18	21.09			21	3
5	64QAM	1	0	20.89	21.03	20.86			21	3
5	64QAM	1	24	20.98	21.08	20.90			21	3
5	64QAM	12	0	20.25	20.22	20.14			21	3
5	64QAM	12	7	20.30	20.19	20.11			21	3
5	64QAM	12	13	20.18	20.14	20.24			21	3
5	64QAM	25	0	20.30	20.34	20.34			20	4
5	256QAM	1	0	18.17	18.16	18.23			19	5
5	256QAM	1	12	18.11	18.22	18.32			19	5
5	256QAM	1	24	18.06	18.17	18.19			19	5
5	256QAM	12	0	18.26	18.36	18.37			19	5
5	256QAM	12	7	18.12	18.36	18.30			19	5
5	256QAM	12	13	18.23	18.37	18.43			19	5
5	256QAM	25	0	18.15	18.28	18.26			19	5

Band 41 Ant5 (2.6G Band)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Co. (W)	Power Low Mid Co. (W)	Power Middle Co. (W)	Power High Co. (W)	Power High Mid Co. (W)	Power High Hi Co. (W)	Tune-up limit (dBm)	MPR (dB)
Channel											
Frequency (MHz)				39750	40185	40620	41055	41490			
20	QPSK	1	0	23.24	23.44	23.50	23.46	23.47		24	0
20	QPSK	1	49	23.14	23.23	23.28	23.19	23.18		23	1
20	QPSK	1	99	23.23	23.23	23.32	23.34	23.36		23	1
20	QPSK	50	0	22.29	22.32	22.37	22.30	22.34		23	1
20	QPSK	50	24	22.25	22.28	22.34	22.44	22.31		23	1
20	QPSK	50	50	22.23	22.20	22.28	22.19	22.18		23	1
20	QPSK	100	0	22.25	22.32	22.36	22.33	22.31		23	1
20	16QAM	1	0	22.28	22.39	22.43	22.35	22.44		23	1
20	16QAM	1	49	22.24	22.30	22.36	22.30	22.31			



Band 38 Ant5 (only on channel required) HPUE

BW (MHz)	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)				2680	2695	2610		
20	QPSK	1	0	26.27	26.34	26.30	27	0
20	QPSK	1	49	26.31	26.32	26.33		
20	QPSK	1	99	26.28	26.29	26.32		
20	QPSK	50	0	25.38	25.39	25.39		
20	QPSK	50	24	26.42	26.40	26.38	26	1
20	QPSK	50	50	26.36	26.33	26.32		
20	QPSK	100	0	25.30	25.35	25.35		
20	16QAM	1	0	25.68	25.75	25.76		
20	16QAM	1	49	25.69	25.76	25.81	26	1
20	16QAM	1	99	25.63	25.65	25.67		
20	16QAM	50	0	24.39	24.41	24.40		
20	16QAM	50	24	24.46	24.45	24.50		
20	16QAM	50	50	24.38	24.39	24.39	25	2
20	16QAM	100	0	24.45	24.45	24.44		
20	16QAM	1	0	24.59	24.61	24.63		
20	16QAM	1	49	24.55	24.65	24.72		
20	64QAM	1	99	24.45	24.49	24.47	24	3
20	64QAM	50	0	23.34	23.40	23.47		
20	64QAM	50	24	23.45	23.44	23.43		
20	64QAM	50	50	23.38	23.39	23.38		
20	64QAM	100	0	23.37	23.37	23.38	22	5
20	256QAM	1	0	21.38	21.42	21.38		
20	256QAM	1	49	21.36	21.38	21.45		
20	256QAM	1	99	21.25	21.30	21.28		
20	256QAM	50	0	21.46	21.50	21.51	22	5
20	256QAM	50	24	21.44	21.51	21.51		
20	256QAM	50	50	21.44	21.41	21.45		
20	256QAM	100	0	21.43	21.43	21.41		
Channel								
Frequency (MHz)				2677.5	2695	2612.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	26.17	26.31	26.18	27	0
15	QPSK	1	37	26.18	26.32	26.23		
15	QPSK	1	74	26.18	26.21	26.17		
15	QPSK	36	0	25.23	25.29	25.33		
15	QPSK	36	20	25.27	25.27	25.22	26	1
15	QPSK	36	39	25.30	25.17	25.19		
15	QPSK	75	0	25.23	25.32	25.24		
15	16QAM	1	0	25.67	25.65	25.68		
15	16QAM	1	37	25.60	25.70	25.75	26	1
15	16QAM	1	74	25.55	25.51	25.57		
15	16QAM	36	0	24.24	24.29	24.34		
15	16QAM	36	20	24.36	24.35	24.34		
15	16QAM	36	39	24.24	24.26	24.32	25	2
15	16QAM	75	0	24.40	24.40	24.38		
15	16QAM	1	0	24.46	24.55	24.50		
15	16QAM	1	37	24.44	24.60	24.57		
15	64QAM	1	74	24.35	24.34	24.43	24	3
15	64QAM	36	0	23.22	23.29	23.38		
15	64QAM	36	20	23.35	23.34	23.39		
15	64QAM	36	39	23.31	23.33	23.28		
15	64QAM	75	0	23.23	23.22	23.33	22	5
15	256QAM	1	0	21.28	21.31	21.34		
15	256QAM	1	37	21.20	21.32	21.34		
15	256QAM	1	74	21.19	21.25	21.14		
15	256QAM	36	0	21.41	21.41	21.38	22	5
15	256QAM	36	20	21.48	21.38	21.38		
15	256QAM	36	39	21.32	21.34	21.32		
15	256QAM	75	0	21.28	21.31	21.31		
Channel								
Frequency (MHz)				2675	2695	2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	26.04	26.15	26.08	27	0
10	QPSK	1	25	26.10	26.16	26.22		
10	QPSK	1	49	26.05	26.08	26.11		
10	QPSK	25	0	25.24	25.24	25.19		
10	QPSK	25	12	25.17	25.20	25.16	26	1
10	QPSK	25	25	25.12	25.15	25.17		
10	QPSK	50	0	25.06	25.14	25.22		
10	16QAM	1	0	25.47	25.57	25.59		
10	16QAM	1	25	25.50	25.59	25.61	26	1
10	16QAM	1	49	25.45	25.45	25.42		
10	16QAM	25	0	24.14	24.22	24.22		
10	16QAM	25	12	24.32	24.25	24.28		
10	16QAM	25	25	24.18	24.24	24.14	25	2
10	16QAM	50	0	24.24	24.25	24.19		
10	64QAM	1	0	24.32	24.41	24.45		
10	64QAM	1	25	24.37	24.50	24.55		
10	64QAM	1	49	24.25	24.30	24.28	24	3
10	64QAM	25	0	23.17	23.19	23.28		
10	64QAM	25	12	23.19	23.18	23.25		
10	64QAM	25	25	23.13	23.17	23.22		
10	64QAM	50	0	23.16	23.20	23.23	22	5
10	256QAM	1	0	21.14	21.24	21.20		
10	256QAM	1	25	21.18	21.23	21.28		
10	256QAM	1	49	21.07	21.15	21.05		
10	256QAM	25	0	21.32	21.27	21.32	22	5
10	256QAM	25	12	21.29	21.33	21.31		
10	256QAM	25	25	21.20	21.18	21.31		
10	256QAM	50	0	21.23	21.22	21.17		
Channel								
Frequency (MHz)				2672.5	2695	2617.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	25.95	26.06	26.01	27	0
5	QPSK	1	12	26.04	26.05	26.02		
5	QPSK	1	24	26.00	26.03	26.04		
5	QPSK	12	0	25.11	25.11	25.15		
5	QPSK	12	7	25.12	25.10	25.08	26	1
5	QPSK	12	13	25.05	25.06	25.08		
5	QPSK	25	0	25.04	25.11	25.00		
5	16QAM	1	0	25.41	25.41	25.42		
5	16QAM	1	12	25.37	25.46	25.51	26	1
5	16QAM	1	24	25.34	25.38	25.33		
5	16QAM	12	0	24.13	24.09	24.16		
5	16QAM	12	7	24.24	24.16	24.25		
5	16QAM	12	13	24.10	24.11	24.15	25	2
5	16QAM	25	0	24.23	24.16	24.19		
5	64QAM	1	0	24.22	24.26	24.31		
5	64QAM	1	12	24.31	24.40	24.38		
5	64QAM	1	24	24.18	24.14	24.18	24	3
5	64QAM	12	0	23.09	23.09	23.23		
5	64QAM	12	7	23.11	23.10	23.09		
5	64QAM	12	13	23.14	23.15	23.10		
5	64QAM	25	0	23.04	23.06	23.11	22	5
5	256QAM	1	0	21.04	21.18	21.13		
5	256QAM	1	12	21.07	21.04	21.16		
5	256QAM	1	24	20.99	21.03	20.97		
5	256QAM	12	0	21.18	21.21	21.24	22	5
5	256QAM	12	7	21.18	21.18	21.22		
5	256QAM	12	13	21.16	21.16	21.09		
5	256QAM	25	0	21.08	21.08	21.16		



Reduced Power Mode for WWAN

Sensor& Hotspot Ant 0									
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)									
GSM 1 Tx slot	22.74	23.08	22.76	24.00	13.74	14.08	13.76	15.00	
GPRS 1 Tx slot	22.77	23.13	22.84	24.00	13.77	14.13	13.84	15.00	
GPRS 2 Tx slots	20.79	20.81	20.84	21.50	14.79	14.81	14.84	15.50	
GPRS 3 Tx slots	19.26	19.41	19.23	20.00	15.00	15.15	14.97	15.74	
GPRS 4 Tx slots	17.83	17.84	17.91	18.00	14.83	14.84	14.91	15.00	
EDGE 1 Tx slot	19.39	19.31	19.39	19.50	10.39	10.31	10.39	10.50	
EDGE 2 Tx slots	17.78	17.79	17.65	18.50	11.78	11.79	11.65	12.50	
EDGE 3 Tx slots	16.52	16.32	16.36	17.00	12.26	12.06	12.10	12.74	
EDGE 4 Tx slots	15.11	15.08	15.24	15.50	12.11	12.08	12.24	12.50	

Sensor& Hotspot Ant 0									
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		
TX Channel	9662	9800	9938		1537	1638	1738		
Rx Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6		
Frequency (MHz)									
3GPP Rel 99	AMR 12.2Kbps	13.97	14.00	13.91	15.50	13.61	13.79	13.72	15.50
3GPP Rel 99	RMC 12.2Kbps	14.06	14.14	13.97	15.50	13.74	13.91	13.89	15.50
3GPP Rel 6	HSDPA Subtest-1	13.19	13.33	13.12	14.50	12.88	12.84	12.72	14.50
3GPP Rel 6	HSDPA Subtest-2	13.03	13.37	13.15	14.50	12.76	12.91	13.06	14.50
3GPP Rel 6	HSDPA Subtest-3	12.68	12.50	12.69	14.00	12.34	12.34	12.29	14.00
3GPP Rel 6	HSDPA Subtest-4	12.52	12.78	12.70	14.00	12.27	12.40	12.37	14.00
3GPP Rel 8	DC-HSDPA Subtest-1	13.11	13.40	13.08	14.50	13.02	12.95	12.91	14.50
3GPP Rel 8	DC-HSDPA Subtest-2	13.07	13.31	13.23	14.50	13.04	13.17	12.87	14.50
3GPP Rel 8	DC-HSDPA Subtest-3	12.88	12.52	12.61	14.00	12.35	12.33	12.31	14.00
3GPP Rel 8	DC-HSDPA Subtest-4	12.51	12.75	12.66	14.00	12.21	12.45	12.47	14.00
3GPP Rel 6	HSUPA Subtest-1	13.03	12.97	12.96	14.00	12.93	13.09	12.89	14.00
3GPP Rel 6	HSUPA Subtest-2	11.04	11.01	11.01	12.00	10.90	10.91	11.02	12.00
3GPP Rel 6	HSUPA Subtest-3	12.14	12.02	12.17	13.00	11.75	11.85	12.04	13.00
3GPP Rel 6	HSUPA Subtest-4	11.27	11.23	10.99	12.00	10.76	10.76	11.08	12.00
3GPP Rel 6	HSUPA Subtest-5	13.18	13.07	12.99	14.00	12.91	12.99	12.91	14.00



GSM1900	Handheld Ant 0							
	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	1850	1850.8		1852.2	1852	1852.8	
Frequency (MHz)								
GSM 1 Tx slot	27.56	27.57	27.64	29.50	18.58	18.57	18.84	20.50
GPRS 1 Tx slot	27.60	27.61	27.78	29.50	18.60	18.61	18.78	20.50
GPRS 2 Tx slots	25.31	25.18	25.43	27.00	19.31	19.18	19.43	21.00
GPRS 3 Tx slots	23.65	23.83	23.85	25.50	19.39	19.57	19.59	21.24
GPRS 4 Tx slots	21.93	22.19	22.15	23.50	18.93	19.19	19.15	20.50
EDGE 1 Tx slot	23.41	23.46	23.50	25.00	14.41	14.46	14.50	16.00
EDGE 2 Tx slots	22.39	22.47	22.44	24.00	16.39	16.47	16.44	18.00
EDGE 3 Tx slots	21.01	21.03	20.81	22.50	16.75	16.77	16.55	18.24
EDGE 4 Tx slots	19.37	19.49	19.19	21.00	16.37	16.49	16.19	18.00

Band	Handheld Ant 0				Handheld Ant 0				
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
	5262	8400	8538		1512	1413	1513		
TX Channel	8682	8680	8638		1537	1538	1738		
Rx Channel									
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2kbps	19.05	19.15	19.05	20.00	18.21	18.26	18.22	20.00
3GPP Rel 99	RMC 12.2kbps	19.11	19.17	19.13	20.00	18.39	18.43	18.41	20.00
3GPP Rel 6	HSDPA Subtest-1	18.19	18.34	18.25	19.00	17.27	17.37	17.33	19.00
3GPP Rel 6	HSDPA Subtest-2	18.12	18.51	18.38	19.00	17.33	17.30	17.41	19.00
3GPP Rel 6	HSDPA Subtest-3	17.86	17.71	17.78	18.50	16.66	16.76	16.74	18.50
3GPP Rel 6	HSDPA Subtest-4	17.81	17.80	17.36	18.50	16.68	16.81	16.77	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.23	18.47	18.18	19.00	17.53	17.38	17.39	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.15	18.47	18.35	19.00	17.52	17.60	17.38	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.79	17.74	17.78	18.50	16.79	16.84	16.82	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.66	17.82	17.88	18.50	16.67	16.94	17.03	18.50
3GPP Rel 6	HSUPA Subtest-1	18.19	18.11	18.08	18.50	17.36	17.56	17.36	18.50
3GPP Rel 6	HSUPA Subtest-2	16.28	16.19	16.16	16.50	15.26	15.28	15.50	16.50
3GPP Rel 6	HSUPA Subtest-3	17.13	17.11	17.13	17.50	16.15	16.26	16.41	17.50
3GPP Rel 6	HSUPA Subtest-4	16.28	16.24	16.09	16.50	15.25	15.38	15.64	16.50
3GPP Rel 6	HSUPA Subtest-5	18.27	18.21	18.12	18.50	17.37	17.44	17.49	18.50



Band 2 Ant 0 Sensor& Hotspot										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.16	14.30	14.31				
20	QPSK	1	49	14.32	14.24	14.26	15	0		
20	QPSK	1	99	14.32	14.24	14.26				
20	QPSK	50	0	14.22	14.38	14.28				
20	QPSK	50	24	14.20	14.20	14.20	15	0		
20	QPSK	50	50	14.27	14.29	14.34				
20	QPSK	100	0	14.16	14.37	14.31				
20	QPSK	100	0	14.20	14.27	14.27				
20	16QAM	1	49	14.29	14.25	14.33	15	0		
20	16QAM	1	99	14.17	14.34	14.32				
20	16QAM	50	0	14.10	14.19	14.18				
20	16QAM	50	24	14.17	14.25	14.24	15	0		
20	16QAM	50	50	14.26	14.17	14.17				
20	16QAM	100	0	14.11	14.22	14.19				
20	16QAM	1	0	14.10	14.24	14.17				
20	16QAM	1	49	14.23	14.18	14.28	15	0		
20	16QAM	1	99	14.04	14.24	14.24				
20	16QAM	50	0	14.14	14.21	14.20				
20	16QAM	50	24	14.20	14.17	14.21	15	0		
20	16QAM	50	50	14.11	14.22	14.28				
20	16QAM	100	0	14.14	14.22	14.17				
20	16QAM	1	49	14.02	14.02	14.09	15	0		
20	256QAM	1	99	13.94	14.05	14.00				
20	256QAM	50	0	14.04	14.04	14.07				
20	256QAM	50	24	14.09	14.04	14.07	15	0		
20	256QAM	50	50	13.98	14.04	14.08				
20	256QAM	100	0	13.99	14.05	14.07				
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.08	14.19	14.22				
15	QPSK	1	37	14.19	14.21	14.21	15	0		
15	QPSK	1	74	14.22	14.09	14.20				
15	QPSK	36	0	14.14	14.18	14.18				
15	QPSK	36	29	14.12	14.21	14.21	15	0		
15	QPSK	36	39	14.06	14.20	14.27				
15	QPSK	75	0	14.03	14.17	14.21				
15	16QAM	1	0	14.06	14.16	14.16				
15	16QAM	1	37	14.19	14.11	14.19	15	0		
15	16QAM	1	74	14.07	14.07	14.08				
15	16QAM	36	0	14.01	14.10	14.08				
15	16QAM	36	29	14.04	14.19	14.10	15	0		
15	16QAM	36	39	14.05	14.05	14.05				
15	16QAM	75	0	14.02	14.13	14.05				
15	16QAM	1	0	14.04	14.10	14.10				
15	16QAM	1	37	14.04	14.08	14.08	15	0		
15	16QAM	1	74	14.06	14.08	14.08				
15	16QAM	36	0	14.06	14.07	14.03				
15	16QAM	36	29	14.07	14.07	14.04	15	0		
15	16QAM	36	39	14.08	14.14	14.15				
15	16QAM	75	0	14.09	14.04	14.11				
15	256QAM	1	37	14.09	13.95	14.13				
15	256QAM	1	74	13.86	14.05	14.07				
15	256QAM	36	0	14.00	14.08	14.08	15	0		
15	256QAM	36	29	14.05	14.02	14.02				
15	256QAM	36	39	14.06	13.97	14.10				
15	256QAM	75	0	13.95	14.08	14.09				
15	256QAM	100	0	13.95	14.08	14.09				
Channel										
Frequency (MHz)										
10	QPSK	1	0	14.01	14.12	14.12				
10	QPSK	1	25	14.14	14.21	14.19	15	0		
10	QPSK	1	49	14.16	14.10	14.29				
10	QPSK	12	0	14.06	14.16	14.14				
10	QPSK	25	12	14.06	14.25	14.16	15	0		
10	QPSK	25	25	14.14	14.21	14.21				
10	QPSK	50	0	14.03	14.12	14.22				
10	16QAM	1	0	14.13	14.10	14.21				
10	16QAM	1	24	14.11	14.14	14.19	15	0		
10	16QAM	1	49	14.07	14.05	14.05				
10	16QAM	25	0	14.04	14.08	14.00				
10	16QAM	25	12	14.06	14.18	14.08	15	0		
10	16QAM	25	25	14.15	14.08	14.08				
10	16QAM	50	0	14.02	14.16	14.09				
10	16QAM	1	0	14.03	14.13	14.08				
10	16QAM	1	24	14.05	14.05	14.05	15	0		
10	16QAM	1	49	14.13	14.09	14.10				
10	16QAM	25	0	14.06	14.14	14.11				
10	16QAM	25	12	14.07	14.13	14.15	15	0		
10	16QAM	50	0	14.02	14.09	14.06				
10	256QAM	1	37	14.01	14.01	14.05				
10	256QAM	1	74	14.05	14.05	14.05	15	0		
10	256QAM	1	49	13.87	14.04	14.01				
10	256QAM	12	0	14.03	14.05	14.05				
10	256QAM	25	12	14.01	14.04	14.10				
10	256QAM	25	25	13.91	13.99	14.10	15	0		
10	256QAM	50	0	13.91	14.08	14.08				
10	256QAM	50	0	13.91	14.08	14.08				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.01	14.12	14.12				
5	QPSK	1	12	14.10	14.25	14.15	15	0		
5	QPSK	1	24	14.22	14.08	14.18				
5	QPSK	12	0	14.06	14.16	14.14				
5	QPSK	12	7	14.12	14.17	14.21	15	0		
5	QPSK	12	13	14.15	14.15	14.28				
5	QPSK	25	0	14.15	14.21	14.22				
5	16QAM	1	0	14.10	14.11	14.14				
5	16QAM	1	12	14.12	14.17	14.18	15	0		
5	16QAM	1	24	14.11	14.28	14.17				
5	16QAM	12	0	14.02	14.02	14.10				
5	16QAM	12	7	14.06	14.13	14.16	15	0		
5	16QAM	12	13	14.17	14.18	14.20				
5	16QAM	25	0	14.01	14.20	14.05				
5	16QAM	1	0	14.02	14.15	14.09				
5	16QAM	1	12	14.09	14.20	14.13	15	0		
5	16QAM	1	24	14.10	14.08	14.10				
5	16QAM	12	0	14.07	14.05	14.11				
5	16QAM	12	7	14.02	14.09	14.14	15	0		
5	16QAM	12	13	14.00	14.06	14.10				
5	16QAM	25	0	14.14	14.14	14.02				
5	256QAM	1	37	13.95	14.04	13.94				
5	256QAM	1	74	14.04	13.99	14.10	15	0		
5	256QAM	12	0	13.98	14.00	14.00				
5	256QAM	12	7	13.90	13.97	13.96	15	0		
5	256QAM	12	13	13.97	14.04	14.02				
5	256QAM	25	0	13.94	14.02	14.01				
5	256QAM	25	0	13.94	14.02	14.01				
Channel										
Frequency (MHz)										
3	QPSK	1	0	14.02	14.22	14.23				
3	QPSK	1	8	14.14	14.26	14.16	15	0		
3	QPSK	1	14	14.25	14.10	14.11				
3	QPSK	8	0	14.10	14.20	14.20				
3	QPSK	8	4	14.07	14.24	14.23	15	0		
3	QPSK	8	7	14.14	14.17	14.18				
3	QPSK	15	0	14.04	14.27	14.20				
3	16QAM	1	0	14.11	14.16	14.16				
3	16QAM	1	8	14.20	14.15	14.25	15	0		
3	16QAM	1	14	14.08	14.21	14.19				
3	16QAM	8	0	14.01	14.10	14.05				
3	16QAM	8	4	14.02	14.19	14.16	15	0		
3	16QAM	15	0	14.14	14.13	14.03				
3	16QAM	1	0	14.01	14.11	14.06				
3	16QAM	1	8	14.19	14.19	14.10	15	0		
3	16QAM	1	14	14.09	14.05	14.09				
3	16QAM	8	0</							



Band 2 Ant 0 Handheld										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.21	19.21	19.27	20.5	0		
20	QPSK	1	49	19.22	19.22	19.28				
20	QPSK	1	99	19.30	19.21	19.22				
20	QPSK	50	0	19.18	19.20	19.21				
20	QPSK	24	0	19.12	19.13	19.13				
20	QPSK	50	50	19.26	19.29	19.26				
20	QPSK	100	0	19.18	19.20	19.20				
20	16QAM	100	0	19.07	19.05	19.05				
20	16QAM	1	49	19.25	19.03	19.08	20.5	0		
20	16QAM	1	99	19.02	19.15	19.16				
20	16QAM	50	0	19.03	19.01	19.01				
20	16QAM	50	24	19.08	19.20	19.05				
20	16QAM	50	50	19.04	19.10	19.13				
20	16QAM	100	0	19.04	19.06	19.06				
20	16QAM	1	0	19.25	19.11	19.16				
20	16QAM	1	49	19.10	19.04	19.02	20.5	0		
20	16QAM	50	0	19.16	19.18	19.13				
20	16QAM	50	24	19.13	19.13	19.20	20.5	0		
20	16QAM	50	50	19.08	19.10	19.06				
20	16QAM	100	0	19.18	19.12	19.19				
20	16QAM	1	0	17.46	17.56	17.48				
20	16QAM	1	49	17.44	17.52	17.60				19 1.5
20	16QAM	1	99	17.55	17.47	17.48				
20	16QAM	50	0	17.58	17.47	17.48				
20	16QAM	50	24	17.47	17.38	17.40				
20	16QAM	50	50	17.46	17.43	17.43				19 1.5
20	16QAM	100	0	17.52	17.45	17.46				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.13	19.16	19.18	20.5	0		
15	QPSK	1	49	19.11	19.11	19.09				
15	QPSK	1	74	19.23	19.05	19.05				
15	QPSK	36	0	19.09	19.10	19.02				
15	QPSK	36	20	19.06	19.04	19.12				
15	QPSK	36	36	19.17	19.23	19.10				
15	QPSK	75	0	19.11	19.10	19.03				
15	16QAM	1	49	19.03	18.92	18.93	20.5	0		
15	16QAM	1	37	19.09	18.93	18.95				
15	16QAM	1	74	19.07	18.95	18.96				
15	16QAM	36	0	18.93	18.92	19.17				
15	16QAM	36	20	19.04	19.08	18.88	20.5	0		
15	16QAM	36	36	19.08	19.07	19.00				
15	16QAM	75	0	18.90	18.87	18.94				
15	16QAM	1	0	19.19	19.06	19.05	20.5	0		
15	16QAM	1	49	19.09	19.09	19.22				
15	16QAM	1	74	18.97	18.93	19.04				
15	16QAM	36	0	19.08	18.97	19.04				
15	16QAM	36	20	19.03	19.03	18.96				
15	16QAM	36	36	19.03	18.93	18.96				
15	16QAM	75	0	19.11	18.99	18.94				
15	16QAM	1	0	17.58	17.58	17.58				
15	16QAM	1	37	17.52	17.49	17.63				19 1.5
15	16QAM	1	74	17.45	17.58	17.48				
15	16QAM	36	0	17.58	17.47	17.48				
15	16QAM	36	20	17.53	17.39	17.47				
15	16QAM	36	36	17.45	17.39	17.52				19 1.5
15	16QAM	75	0	17.52	17.45	17.46				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.05	19.09	19.05	20.5	0		
10	QPSK	1	25	19.08	19.09	19.02				
10	QPSK	1	49	19.17	19.02	18.99				
10	QPSK	12	0	19.06	19.07	19.07				
10	QPSK	25	25	19.11	19.07	19.12				
10	QPSK	25	12	19.06	19.05	19.11				
10	QPSK	25	25	19.08	18.79	18.96				
10	16QAM	1	25	19.00	18.85	18.91	20.5	0		
10	16QAM	1	49	19.00	18.92	18.90				
10	16QAM	25	0	18.82	18.97	19.04				
10	16QAM	25	12	18.91	19.00	18.88	20.5	0		
10	16QAM	25	25	19.08	19.07	19.00				
10	16QAM	50	0	18.94	18.92	18.93				
10	16QAM	1	0	19.02	18.96	19.07	20.5	0		
10	16QAM	1	49	18.90	18.90	19.04				
10	16QAM	1	49	18.80	18.89	19.01				
10	16QAM	25	0	19.04	18.95	18.97				
10	16QAM	25	12	18.98	18.97	18.97				
10	16QAM	25	25	18.98	18.78	18.77	20.5	0		
10	16QAM	50	0	19.09	19.02	19.01				
10	16QAM	1	0	17.51	17.51	17.51				
10	16QAM	1	25	17.51	17.47	17.64				19 1.5
10	16QAM	1	49	17.44	17.57	17.50				
10	16QAM	12	0	17.38	17.40	17.52				
10	16QAM	25	12	17.43	17.43	17.48				19 1.5
10	16QAM	25	25	17.35	17.40	17.48				
10	16QAM	50	0	17.52	17.45	17.47				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.05	19.02	19.05	20.5	0		
5	QPSK	1	24	19.05	19.13	19.05				
5	QPSK	1	24	19.09	18.97	19.11				
5	QPSK	12	0	19.06	19.07	19.07				
5	QPSK	12	7	19.04	19.11	19.21				
5	QPSK	12	13	19.14	19.20	19.01				
5	QPSK	25	0	19.06	19.05	19.10				
5	16QAM	1	0	18.90	18.88	18.91	20.5	0		
5	16QAM	1	12	19.07	18.92	18.91				
5	16QAM	12	0	18.90	18.90	18.90				
5	16QAM	12	7	19.08	19.08	18.95				
5	16QAM	12	13	19.00	18.90	18.90	20.5	0		
5	16QAM	25	0	18.96	18.88	18.92				
5	16QAM	1	0	19.07	19.03	19.07	20.5	0		
5	16QAM	1	49	18.99	18.97	19.04				
5	16QAM	1	24	18.91	18.89	18.98				
5	16QAM	12	0	19.00	18.98	18.98				
5	16QAM	12	13	19.00	18.90	18.93				
5	16QAM	25	0	19.09	18.94	19.09				
5	16QAM	1	0	17.45	17.50	17.49				
5	16QAM	1	12	17.43	17.50	17.50				19 1.5
5	16QAM	1	24	17.39	17.51	17.51				
5	16QAM	12	0	17.44	17.50	17.40				
5	16QAM	12	7	17.41	17.40	17.41				19 1.5
5	16QAM	12	13	17.59	17.40	17.40				
5	16QAM	25	0	17.37	17.45	17.52				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.10	19.08	19.07	20.5	0		
3	QPSK	1	8	19.02	19.12	18.88				
3	QPSK	1	14	19.14	19.00	19.13				
3	QPSK	8	0	19.08	19.17	19.08				
3	QPSK	8	4	19.03	19.10	19.17				
3	QPSK	8	7	19.07	19.11	19.07				
3	QPSK	15	0	19.02	19.10	19.02				
3	16QAM	1	0	18.89	18.94	18.91	20.5	0		
3	16QAM	1	8	19.02	18.94	19.00				
3	16QAM	1	14	18.98	18.97	19.04				
3	16QAM	8	0	18.94	18.90	18.99				
3	16QAM	8	4	18.97	19.00	18.92	20.5	0		
3	16QAM	15	0	19.09	19.07	19.08				
3	16QAM	1	0	19.04	18.97	19.01	20.5	0		
3	16QAM	1	8	19.00	19.05	18.93				
3	16QAM	1	14	18.99	18.94	19.08				
3	16QAM	8	0	19.07	18.98	19.02				
3	16QAM	8	4	19.00	18.88	19.02	20.5	0		
3	16QAM	15	0	19.00	18.90	18.96				
3	16QAM	1	0	17						



Band 42 Ant 2 Hotspot

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				42190	42590	42990		
20	QPSK	1	0	18.30	18.43	18.59	19	0
20	QPSK	1	49	18.25	18.36	18.23		
20	QPSK	1	99	18.08	18.35	18.18		
20	QPSK	50	0	18.37	18.42	18.40		
20	QPSK	50	24	18.40	18.29	18.27	19	0
20	QPSK	50	50	18.26	18.20	18.13		
20	QPSK	100	0	18.09	18.41	18.20		
20	16QAM	1	0	18.27	18.31	18.21		
20	16QAM	1	49	18.18	18.30	18.26	19	0
20	16QAM	1	99	18.12	18.08	18.20		
20	16QAM	50	0	18.16	18.10	18.32		
20	16QAM	50	24	18.05	18.24	18.00	19	0
20	16QAM	50	50	18.02	18.15	18.22		
20	16QAM	100	0	18.16	18.11	18.15		
20	64QAM	1	0	17.99	18.01	18.13	19	0
20	64QAM	1	49	18.16	18.04	18.06		
20	64QAM	1	99	18.29	18.33	18.17		
20	64QAM	50	0	17.84	17.86	17.89	19	0
20	64QAM	50	24	17.82	17.82	17.86		
20	64QAM	50	50	17.81	17.72	17.86		
20	256QAM	100	0	17.84	17.83	17.86		
20	256QAM	1	0	17.70	17.75	17.81	19	0
20	256QAM	1	49	17.71	17.68	17.72		
20	256QAM	1	99	17.79	17.75	17.79		
20	256QAM	50	0	17.95	17.98	17.95	19	0
20	256QAM	50	24	18.04	18.03	18.04		
20	256QAM	50	50	17.99	17.99	17.98		
20	256QAM	100	0	17.90	17.98			
Channel								
Frequency (MHz)				42195	42595	42995		
15	QPSK	1	0	18.03	18.26	18.26	19	0
15	QPSK	1	37	18.00	18.09	18.08		
15	QPSK	1	74	17.95	18.02	18.16		
15	QPSK	36	0	18.29	18.37	18.11	19	0
15	QPSK	36	20	18.27	18.33	18.19		
15	QPSK	36	39	18.19	18.02	18.10	19	0
15	QPSK	75	0	17.99	18.19	18.12		
15	16QAM	1	0	18.15	18.20	18.16	19	0
15	16QAM	1	37	17.97	17.91	18.12		
15	16QAM	1	74	17.80	18.10	17.95		
15	16QAM	36	0	17.88	18.02	18.17	19	0
15	16QAM	36	20	17.79	17.87	18.04		
15	16QAM	36	39	18.00	17.90	18.26	19	0
15	16QAM	75	0	17.93	18.08	18.16		
15	64QAM	1	0	17.84	18.01	18.04	19	0
15	64QAM	1	37	18.15	18.18	18.18		
15	64QAM	1	74	18.15	18.20	18.01		
15	64QAM	36	0	17.82	17.84	17.88	19	0
15	64QAM	36	20	17.89	17.84	17.84		
15	64QAM	36	39	17.85	17.89	17.79	19	0
15	64QAM	75	0	17.84	17.86	17.88		
15	256QAM	1	0	17.56	17.67	17.59	19	0
15	256QAM	1	37	17.64	17.52	17.63		
15	256QAM	1	74	17.89	17.66	17.64		
15	256QAM	36	0	17.84	17.91	17.88	19	0
15	256QAM	36	20	17.98	17.90	17.88		
15	256QAM	36	39	17.89	17.94	17.94		
15	256QAM	75	0	17.83	17.88	17.90		
Channel								
Frequency (MHz)				42140	42590	43040		
10	QPSK	1	0	18.02	18.20	18.11	19	0
10	QPSK	1	25	18.12	18.10	18.34		
10	QPSK	1	49	17.99	18.16	18.02		
10	QPSK	25	0	18.27	18.17	18.24	19	0
10	QPSK	25	12	18.25	18.08	18.20		
10	QPSK	25	25	18.14	18.19	17.97		
10	QPSK	50	0	18.14	18.25	18.24		
10	16QAM	1	0	18.15	18.16	18.08	19	0
10	16QAM	1	25	18.01	18.08	18.16		
10	16QAM	1	49	18.05	18.00	18.27		
10	16QAM	25	0	18.10	17.99	18.28		
10	16QAM	25	12	17.82	17.93	17.91	19	0
10	16QAM	25	25	17.88	17.96	18.26		
10	16QAM	50	0	18.05	18.06	18.05		
10	64QAM	1	0	17.81	17.97	17.80	19	0
10	64QAM	1	25	18.10	17.91	18.02		
10	64QAM	1	49	18.03	18.21	17.95		
10	64QAM	25	0	17.86	17.71	17.78	19	0
10	64QAM	25	12	17.83	17.57	17.80		
10	64QAM	25	25	17.42	17.72	17.63		
10	64QAM	50	0	17.70	17.82	17.73	19	0
10	256QAM	1	0	17.52	17.55	17.67	19	0
10	256QAM	1	25	17.51	17.59	17.53		
10	256QAM	1	49	17.59	17.62	17.67		
10	256QAM	25	0	17.82	17.88	17.82	19	0
10	256QAM	25	12	17.94	17.83	17.86		
10	256QAM	25	25	17.89	17.81	17.78		
10	256QAM	50	0	17.76	17.82	17.84		
Channel								
Frequency (MHz)				42115	42590	43065		
5	QPSK	1	0	18.37	18.36	18.19	19	0
5	QPSK	1	12	18.08	18.05	18.17		
5	QPSK	1	24	17.90	18.22	18.02		
5	QPSK	12	0	18.18	18.16	18.25	19	0
5	QPSK	12	7	18.23	18.14	18.06		
5	QPSK	12	13	18.04	18.18	18.13		
5	QPSK	25	0	18.13	18.16	18.21	19	0
5	16QAM	1	0	18.09	18.28	18.25		
5	16QAM	1	12	17.87	18.26	18.15	19	0
5	16QAM	1	24	17.88	18.05	18.04		
5	16QAM	12	0	18.08	17.80	18.05		
5	16QAM	12	7	17.77	17.92	17.97	19	0
5	16QAM	12	13	17.97	17.95	18.06		
5	16QAM	25	0	17.86	18.01	18.24	19	0
5	64QAM	1	0	18.03	18.07	18.10	19	0
5	64QAM	1	12	18.06	17.90	17.97		
5	64QAM	1	24	18.14	17.97	18.01		
5	64QAM	12	0	17.50	17.74	17.69	19	0
5	64QAM	12	7	17.70	17.57	17.77		
5	64QAM	12	13	17.61	17.76	17.63		
5	64QAM	25	0	17.71	17.62	17.72	19	0
5	256QAM	1	0	17.51	17.57	17.59		
5	256QAM	1	12	17.51	17.44	17.48	19	0
5	256QAM	1	24	17.55	17.54	17.57		
5	256QAM	12	0	17.73	17.84	17.77		
5	256QAM	12	7	17.81	17.79	17.86	19	0
5	256QAM	12	13	17.85	17.84	17.82		
5	256QAM	25	0	17.68	17.79	17.87		

Band 42 Ant 2 FCC Sensor&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Power Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				42190	42590	42990		
20	QPSK	1	0	20.19	20.26	20.30	21.5	0
20	QPSK	1	49	20.07	20.17	20.33		
20	QPSK	1	99	20.09	20.28	20.17		
20	QPSK	50	0	20.27	20.35	20.33		
20	QPSK	50	24	20.30	20.28	20.32	21.5	0
20	QPSK	50	50	20.30	20.25	20.23		
20	QPSK	100	0	20.20	20.34	20.24		
20	16QAM	1	0	20.32	20.33	20.31		
20	16QAM	1	49	20.17	20.18	20.28	21.5	0
20	16QAM	1	99	20.07	20.13	20.25		
20	16QAM	50	0	20.12	20.02	20.23		
20	16QAM	50	24	19.85	20.19	20.03	21.5	0
20	16QAM	50	50	20.06	20.09	20.28		
20	16QAM	100	0	20.10	20.10	20.23		
20	64QAM	1	0	19.99	20.08	20.02	21.5	0
20	64QAM	1	49	20.12	20.02	20.17		
20	64QAM	1	99	20.19	20.27	20.18		
20	64QAM	50	0	19.70	19.85	19.79	21	0.5
20	64QAM	50	24	19.80	19.72	19.91		
20	64QAM	50	50	19.82	19.82	19.78		
20	64QAM	100	0	19.74	19.80	19.87		
20	256QAM	1	0	17.70	17.75	17.81	19	2.5
20	256QAM	1	49	17.71	17.68	17.72		
20	256QAM	1	99	17.79	17.75	17.79		
20	256QAM	50	0	17.95				



Band 7 Ant 5 Sensor&Hotspot&Handheld									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	18.93	19.11	18.93	20	0	
20	QPSK	1	49	18.97	18.91	18.96			
20	QPSK	1	99	19.01	19.08	18.92			
20	QPSK	50	0	19.01	19.10	19.04	20	0	
20	QPSK	50	24	18.86	18.96	18.93			
20	QPSK	50	50	18.94	19.03	18.94			
20	QPSK	100	0	18.79	19.06	18.86	20	0	
20	16QAM	1	0	18.87	18.86	18.81			
20	16QAM	1	49	18.93	18.94	18.76			
20	16QAM	1	99	18.88	18.93	18.99	20	0	
20	16QAM	50	0	18.85	18.97	18.80			
20	16QAM	50	24	18.82	18.83	18.86			
20	16QAM	50	50	18.85	18.91	18.83	20	0	
20	16QAM	100	0	18.97	18.91	18.98			
20	64QAM	1	0	18.72	18.88	18.88			
20	64QAM	1	49	18.87	18.94	18.85	20	0	
20	64QAM	1	99	18.72	18.83	18.76			
20	64QAM	50	0	18.77	18.77	18.69			
20	64QAM	50	24	18.88	18.87	18.69	20	0	
20	64QAM	50	50	18.76	18.83	18.91			
20	64QAM	100	0	18.62	18.78	18.73			
20	256QAM	1	0	17.98	18.03	18.02	19	1	
20	256QAM	1	49	17.84	17.92	17.90			
20	256QAM	1	99	18.03	18.05	18.01			
20	256QAM	50	0	18.06	18.04	18.10	19	1	
20	256QAM	50	24	18.08	18.10	18.17			
20	256QAM	50	50	18.15	18.12	18.09			
20	256QAM	100	0	18.03	18.07	18.10			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.76	18.96	18.80	20	0	
15	QPSK	1	37	18.85	18.74	18.83			
15	QPSK	1	74	18.85	18.96	18.77			
15	QPSK	36	0	18.83	18.94	18.93	20	0	
15	QPSK	36	20	18.75	18.86	18.84			
15	QPSK	36	39	18.79	18.95	18.86			
15	QPSK	75	0	18.63	18.86	18.71	20	0	
15	16QAM	1	0	18.77	18.76	18.69			
15	16QAM	1	37	18.83	18.78	18.66			
15	16QAM	1	74	18.75	18.81	18.92	20	0	
15	16QAM	36	0	18.75	18.85	18.67			
15	16QAM	36	20	18.70	18.69	18.71			
15	16QAM	36	39	18.69	18.90	18.88	20	0	
15	16QAM	75	0	18.84	18.77	18.87			
15	64QAM	1	0	18.60	18.79	18.73			
15	64QAM	1	37	18.74	18.82	18.71	20	0	
15	64QAM	1	74	18.56	18.77	18.60			
15	64QAM	36	0	18.67	18.63	18.62			
15	64QAM	36	20	18.70	18.79	18.53	20	0	
15	64QAM	36	39	18.65	18.73	18.74			
15	64QAM	75	0	18.48	18.72	18.55			
15	256QAM	1	0	17.83	17.95	17.88	19	1	
15	256QAM	1	37	17.76	17.86	17.76			
15	256QAM	1	74	17.92	17.95	17.86			
15	256QAM	36	0	18.02	17.91	17.99	19	1	
15	256QAM	36	20	17.96	18.03	18.11			
15	256QAM	36	39	18.00	18.01	17.97			
15	256QAM	75	0	17.90	17.95	18.04			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.79	18.93	18.73	20	0	
10	QPSK	1	25	18.77	18.84	18.84			
10	QPSK	1	49	18.86	18.89	18.80			
10	QPSK	25	0	18.84	18.96	18.91	20	0	
10	QPSK	25	12	18.75	18.80	18.82			
10	QPSK	25	25	18.84	18.89	18.89			
10	QPSK	50	0	18.62	18.79	18.70	20	0	
10	16QAM	1	0	18.76	18.66	18.74			
10	16QAM	1	25	18.85	18.89	18.57			
10	16QAM	1	49	18.78	18.85	18.85	20	0	
10	16QAM	25	0	18.70	18.79	18.63			
10	16QAM	25	12	18.62	18.76	18.72			
10	16QAM	25	25	18.72	18.83	18.70	20	0	
10	16QAM	50	0	18.78	18.74	18.90			
10	64QAM	1	0	18.65	18.83	18.72			
10	64QAM	1	25	18.81	18.80	18.78	20	0	
10	64QAM	1	49	18.53	18.72	18.60			
10	64QAM	25	0	18.70	18.65	18.52			
10	64QAM	25	12	18.68	18.74	18.52	20	0	
10	64QAM	25	25	18.71	18.76	18.86			
10	64QAM	50	0	18.53	18.69	18.59			
10	256QAM	1	0	17.81	17.87	17.84	19	1	
10	256QAM	1	25	17.60	17.74	17.75			
10	256QAM	1	49	17.80	17.88	17.78			
10	256QAM	25	0	17.84	17.87	17.90	19	1	
10	256QAM	25	12	17.83	17.90	17.97			
10	256QAM	25	25	18.00	17.97	17.90			
10	256QAM	50	0	17.78	17.91	17.91			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	18.87	19.05	18.78	20	0	
5	QPSK	1	12	18.84	18.81	18.91			
5	QPSK	1	24	18.86	18.85	18.85			
5	QPSK	12	0	18.86	18.86	18.97	20	0	
5	QPSK	12	7	18.66	18.89	18.76			
5	QPSK	12	13	18.77	18.95	18.88			
5	QPSK	25	0	18.68	18.81	18.77	20	0	
5	16QAM	1	0	18.74	18.66	18.71			
5	16QAM	1	12	18.85	18.75	18.55			
5	16QAM	1	24	18.62	18.78	18.91	20	0	
5	16QAM	12	0	18.77	18.62	18.66			
5	16QAM	12	7	18.66	18.72	18.69			
5	16QAM	12	13	18.71	18.75	18.71	20	0	
5	16QAM	25	0	18.92	18.73	18.81			
5	64QAM	1	0	18.51	18.76	18.77			
5	64QAM	1	12	18.81	18.76	18.65	20	0	
5	64QAM	1	24	18.60	18.75	18.61			
5	64QAM	12	0	18.71	18.61	18.59			
5	64QAM	12	7	18.76	18.76	18.62	20	0	
5	64QAM	12	13	18.61	18.63	18.80			
5	64QAM	25	0	18.46	18.66	18.66			
5	256QAM	1	0	17.63	17.70	17.69	19	1	
5	256QAM	1	12	17.48	17.51	17.58			
5	256QAM	1	24	17.64	17.67	17.64			
5	256QAM	12	0	17.71	17.71	17.76	19	1	
5	256QAM	12	7	17.77	17.72	17.81			
5	256QAM	12	13	17.75	17.80	17.73			
5	256QAM	25	0	17.69	17.69	17.77			



Band 38 Ant 5 Sensor&Hotspot&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (W)	Power Mid Ch. (W)	Power High Ch. (W)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				37850	38000	38150		
30	QPSK	1	0	21.83	22.15	21.95	23	0
30	QPSK	1	49	21.81	21.92	21.88		
30	QPSK	50	0	22.04	22.09	21.93		
30	QPSK	50	24	21.89	21.76	21.73	23	0
30	QPSK	50	50	21.95	21.89	21.84		
30	QPSK	100	0	21.83	21.99	21.87		
30	16QAM	1	0	21.77	21.64	21.61	23	0
30	16QAM	1	49	21.71	21.61	21.61		
30	16QAM	1	99	21.96	21.94	21.81		
30	16QAM	50	0	21.60	21.74	21.60		
30	16QAM	50	24	21.72	21.67	21.67	22	1
30	16QAM	50	50	21.72	21.60	21.60		
30	16QAM	100	0	21.58	21.73	21.62		
30	16QAM	1	0	21.84	21.72	21.76	22	1
30	64QAM	1	49	21.75	21.77	21.81		
30	64QAM	1	99	21.48	21.50	21.70		
30	64QAM	50	0	20.84	20.67	20.79	21	2
30	64QAM	50	24	20.76	20.73	20.57		
30	64QAM	50	50	20.67	20.40	20.75		
30	64QAM	100	0	20.66	20.74	20.87		
30	256QAM	1	49	18.82	17.86	18.22	19	4
30	256QAM	1	99	18.00	18.13	18.02		
30	256QAM	1	49	17.99	18.00	17.96		
30	256QAM	50	0	18.15	18.29	18.04	19	4
30	256QAM	50	24	18.26	18.35	18.20		
30	256QAM	50	50	18.15	18.36	18.26		
30	256QAM	100	0	18.03	18.27	18.10		
Channel								
Frequency (MHz)				38715	38865	39015		
15	QPSK	1	0	21.66	21.81	21.81	23	0
15	QPSK	1	31	21.63	21.84	21.84		
15	QPSK	1	74	21.49	21.63	21.58		
15	QPSK	36	0	21.85	21.96	21.74	23	0
15	QPSK	36	39	21.80	21.58	21.71		
15	QPSK	75	0	21.83	21.74	21.77		
15	16QAM	1	0	21.65	21.42	21.37	23	0
15	16QAM	1	31	21.60	21.62	21.54		
15	16QAM	1	74	21.81	21.76	21.63		
15	16QAM	36	0	21.45	21.54	21.36	22	1
15	16QAM	36	39	21.51	21.31	21.40		
15	16QAM	75	0	21.43	21.53	21.46		
15	64QAM	1	0	21.85	21.82	21.82	22	1
15	64QAM	1	37	21.67	21.56	21.55		
15	64QAM	1	74	21.28	21.23	21.26		
15	64QAM	36	0	20.87	20.79	20.57	21	2
15	64QAM	36	39	20.82	20.65	20.57		
15	64QAM	36	39	20.39	20.15	20.25		
15	64QAM	75	0	20.43	20.45	20.66		
15	256QAM	1	0	18.03	18.17	18.00	19	4
15	256QAM	1	37	18.00	18.17	17.94		
15	256QAM	1	74	17.95	18.00	17.98		
15	256QAM	36	0	18.16	18.29	18.04	19	4
15	256QAM	36	39	18.27	18.39	18.24		
15	256QAM	36	39	18.17	18.34	18.20		
15	256QAM	75	0	18.14	18.37	18.10		
Channel								
Frequency (MHz)				37850	38000	38200		
10	QPSK	1	0	21.48	21.62	21.64	23	0
10	QPSK	1	49	21.22	21.41	21.29		
10	QPSK	25	0	21.72	21.66	21.61	23	0
10	QPSK	25	25	21.68	21.36	21.48		
10	QPSK	50	0	21.43	21.51	21.49		
10	16QAM	1	0	21.52	21.23	21.13	23	0
10	16QAM	1	25	21.42	21.54	21.54		
10	16QAM	1	49	21.62	21.63	21.48		
10	16QAM	25	0	21.27	21.22	21.21	22	1
10	16QAM	25	12	21.52	21.23	21.40		
10	16QAM	25	25	21.32	21.05	21.27		
10	16QAM	50	0	21.13	21.22	21.36		
10	64QAM	1	0	21.36	21.25	21.28	22	1
10	64QAM	1	25	21.41	21.48	21.41		
10	64QAM	1	49	21.00	20.99	21.46		
10	64QAM	25	0	20.35	20.14	20.34	21	2
10	64QAM	25	12	20.22	20.52	20.03		
10	64QAM	25	25	20.28	20.03	20.34		
10	64QAM	50	0	20.17	20.26	20.26		
10	256QAM	1	0	17.95	18.12	18.00	19	4
10	256QAM	1	25	17.83	18.10	17.95		
10	256QAM	1	49	17.81	18.09	17.87		
10	256QAM	25	0	18.09	18.20	18.15	19	4
10	256QAM	25	12	18.34	18.39	18.30		
10	256QAM	25	25	18.23	18.29	18.17		
10	256QAM	50	0	18.13	18.17	18.10		
Channel								
Frequency (MHz)				37715	38060	38265		
5	QPSK	1	0	21.30	21.47	21.63	23	0
5	QPSK	1	24	21.63	21.11	21.33		
5	QPSK	1	24	21.67	21.30	21.08		
5	QPSK	12	0	21.55	21.35	21.53	23	0
5	QPSK	12	7	21.34	21.32	21.56		
5	QPSK	12	13	21.43	21.17	21.29		
5	QPSK	25	0	21.31	21.20	21.42		
5	16QAM	1	12	21.62	21.25	21.39	23	0
5	16QAM	1	24	21.38	21.52	21.27		
5	16QAM	12	0	21.69	21.12	20.97	22	1
5	16QAM	12	7	21.04	21.02	21.19		
5	16QAM	12	13	21.11	20.89	21.12		
5	16QAM	25	0	21.03	21.08	21.16		
5	64QAM	1	0	21.04	21.05	21.12	22	1
5	64QAM	1	12	21.16	21.28	21.22		
5	64QAM	1	24	20.83	20.78	21.28		
5	64QAM	12	0	20.14	19.85	20.16	21	2
5	64QAM	12	7	20.01	20.23	19.78		
5	64QAM	12	13	20.10	19.89	20.08		
5	64QAM	25	0	19.88	20.16	20.26		
5	256QAM	1	0	18.08	18.15	17.98	19	4
5	256QAM	1	12	18.03	18.17	18.07		
5	256QAM	1	24	17.98	18.01	18.00		
5	256QAM	12	0	18.21	18.27	18.25	19	4
5	256QAM	12	7	18.20	18.31	18.30		
5	256QAM	12	13	18.20	18.30	18.29		
5	256QAM	25	0	18.13	18.16	18.13		

Band 41 Ant 5 Sensor&Hotspot&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (W)	Power Low Mid Ch. (W)	Power High Ch. (W)	Power High Mid Ch. (W)	Power High Ch. (W)	Tune-up limit (dBm)	MPR (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	22.01	22.49	22.37	22.25	22.07	23	0
20	QPSK	1	49	22.07	22.12	22.02	22.15	22.03		
20	QPSK	1	99	22.02	22.08	22.10	22.19	22.08		
20	QPSK	50	0	22.18	22.23	22.35	22.18	22.31		
20	QPSK	50	24	21.88	22.07	21.85	22.05	22.10	23	0
20	QPSK	50	50	21.93	22.14	22.01	22.22	22.17		
20	QPSK	100	0	21.96	22.02	22.10	21.97	22.04		
20	16QAM	1	0	21.75	21.88	21.87	21.71	21.86	23	0
20	16QAM	1	49	21.87	21.83	22.04	21.95	22.01		
20	16QAM	1	99	21.96	22.16	22.05	22.08	21.95		
20	16QAM	50	0	21.52	21.79	21.50	21.81	21.88	22	1
20	16QAM	50	24	21.75	21.82	21.87	21.85	21.80		
20	16QAM	50	50	21.98	21.95	21.92	21.85	21.91		
20	16QAM	100	0	21.83	21.74	21.99	21.84	21.74		
20	64QAM	1	0	21.85	21.99	21.95	21.83	22.00	22	1
20	64QAM	1	49	21.92	21.98	21.95	21.86	21.99		
20	64QAM	1	99	21.72	21.77	21.80	21.99	21.91		
20	64QAM	50	0	20.92	20.94	20.82	21.00	20.89	21	2
20	64QAM	50	24	21.00	21.00	20.98	20.82	20.89		
20	64QAM	50	50	20.72	20.76	20.71	20.84	20.84		
20	64QAM	100	0	20.83	20.80	20.84	21.00	20.82		
20	256QAM	1	0	18.21	18.23	18.27	18.15	18.20	19	4
20	256QAM	1	49	18.13	18.25	18.34	18.24	18.27		
20	256QAM	1	99	18.04	18.17	18.21	18.15	18.09		



Band 38 Ant 5 HPUE Sensor&Hotspot&Handheld

Channel	BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel 37850 - 38000 - 38150									
Frequency (MHz)									
20	QPSK	1	0	0	21.88	22.10	21.85	23	0
20	QPSK	1	49	0	21.83	21.78	21.88		
20	QPSK	1	99	0	21.93	22.02	21.83		
20	QPSK	50	0	0	21.75	22.09	21.97		
20	QPSK	50	24	0	21.85	21.92	22.04	23	0
20	QPSK	50	50	0	22.00	21.76	21.84		
20	QPSK	100	0	0	21.70	21.97	21.86		
20	16QAM	1	0	0	21.76	21.77	21.87		
20	16QAM	1	49	0	21.80	22.02	22.04	23	0
20	16QAM	1	99	0	21.85	21.91	21.75		
20	16QAM	50	0	0	21.99	21.88	21.93		
20	16QAM	50	24	0	21.78	21.82	21.82		
20	16QAM	50	50	0	21.85	21.80	21.81	23	0
20	16QAM	100	0	0	21.68	21.95	21.87		
20	16QAM	1	0	0	21.78	21.83	21.83		
20	16QAM	1	49	0	21.86	21.97	21.70		
20	64QAM	1	99	0	21.77	21.69	21.88	23	0
20	64QAM	50	0	0	21.70	21.84	21.92		
20	64QAM	50	24	0	21.56	21.84	21.68		
20	64QAM	50	50	0	21.84	21.96	21.64		
20	64QAM	100	0	0	21.75	21.81	21.93	22	1
20	256QAM	1	0	0	21.27	21.30	21.33		
20	256QAM	1	49	0	21.29	21.26	21.31		
20	256QAM	1	99	0	21.25	21.27	21.28		
20	256QAM	36	0	0	21.33	21.38	21.43	22	1
20	256QAM	36	20	0	21.48	21.45	21.46		
20	256QAM	50	24	0	21.48	21.45	21.46		
20	256QAM	50	50	0	21.30	21.34	21.33		
20	256QAM	100	0	0	21.40	21.41	21.37	Channel 37925 - 38000 - 38112	
Frequency (MHz)									
15	QPSK	1	0	0	21.83	21.79	21.88	23	0
15	QPSK	1	37	0	21.81	21.68	21.98		
15	QPSK	1	74	0	21.63	21.73	21.90		
15	QPSK	36	0	0	21.84	21.82	21.85		
15	QPSK	36	20	0	21.66	21.70	21.92	23	0
15	QPSK	36	39	0	21.72	21.45	21.60		
15	QPSK	75	0	0	21.43	21.87	21.84		
15	16QAM	1	0	0	21.55	21.96	21.70		
15	16QAM	1	37	0	21.80	21.92	21.92	23	0
15	16QAM	1	74	0	21.46	21.64	21.46		
15	16QAM	36	0	0	21.70	21.88	21.80		
15	16QAM	36	20	0	21.66	21.66	21.78		
15	16QAM	36	39	0	21.53	21.56	21.68	23	0
15	16QAM	75	0	0	21.53	21.75	21.75		
15	64QAM	1	0	0	21.46	21.55	21.52		
15	64QAM	1	37	0	21.41	21.89	21.60		
15	64QAM	1	74	0	21.56	21.42	21.80	23	0
15	64QAM	36	0	0	21.42	21.84	21.80		
15	64QAM	36	20	0	21.26	21.67	21.43		
15	64QAM	36	39	0	21.76	21.67	21.41		
15	64QAM	75	0	0	21.52	21.55	21.62	22	1
15	256QAM	1	0	0	21.24	21.30	21.25		
15	256QAM	1	37	0	21.33	21.37	21.31		
15	256QAM	1	74	0	21.24	21.24	21.17		
15	256QAM	36	0	0	21.34	21.41	21.39	22	1
15	256QAM	36	20	0	21.51	21.36	21.47		
15	256QAM	36	39	0	21.37	21.30	21.43		
15	256QAM	75	0	0	21.32	21.40	21.36		
Channel 37900 - 38000 - 38200									
Frequency (MHz)									
10	QPSK	1	0	0	21.47	21.58	21.42	23	0
10	QPSK	1	25	0	21.47	21.39	21.51		
10	QPSK	1	49	0	21.40	21.56	21.32		
10	QPSK	25	0	0	21.55	21.71	21.56		
10	QPSK	25	12	0	21.35	21.58	21.77	23	0
10	QPSK	25	25	0	21.45	21.34	21.35		
10	QPSK	50	0	0	21.19	21.67	21.34		
10	16QAM	1	0	0	21.36	21.38	21.62		
10	16QAM	1	25	0	21.54	21.70	21.81	23	0
10	16QAM	1	49	0	21.44	21.47	21.52		
10	16QAM	25	0	0	21.62	21.70	21.52		
10	16QAM	25	12	0	21.33	21.32	21.64		
10	16QAM	25	25	0	21.40	21.30	21.46	23	0
10	16QAM	50	0	0	21.26	21.49	21.44		
10	64QAM	1	0	0	21.15	21.27	21.21		
10	64QAM	1	25	0	21.28	21.64	21.39		
10	64QAM	1	49	0	21.28	21.17	21.49	23	0
10	64QAM	25	0	0	21.34	21.47	21.40		
10	64QAM	25	12	0	21.21	21.36	21.20		
10	64QAM	25	25	0	21.64	21.56	21.28		
10	64QAM	50	0	0	21.28	21.27	21.46	22	1
10	256QAM	1	0	0	21.29	21.31	21.28		
10	256QAM	1	25	0	21.33	21.38	21.31		
10	256QAM	1	49	0	21.24	21.21	21.13		
10	256QAM	25	0	0	21.42	21.50	21.39	22	1
10	256QAM	25	12	0	21.47	21.38	21.41		
10	256QAM	25	25	0	21.32	21.37	21.36		
10	256QAM	50	0	0	21.30	21.34	21.36		
Channel 37925 - 38000 - 38222									
Frequency (MHz)									
5	QPSK	1	0	0	21.17	21.29	21.16	23	0
5	QPSK	1	12	0	21.07	21.26	21.24		
5	QPSK	1	24	0	21.18	21.36	21.20		
5	QPSK	12	0	0	21.26	21.51	21.26		
5	QPSK	12	7	0	21.13	21.32	21.57	23	0
5	QPSK	12	13	0	21.19	21.14	21.19		
5	QPSK	25	0	0	21.09	21.39	21.20		
5	16QAM	1	0	0	21.11	21.16	21.44		
5	16QAM	1	12	0	21.45	21.40	21.92	23	0
5	16QAM	1	24	0	21.16	21.34	21.33		
5	16QAM	12	0	0	21.32	21.93	21.32		
5	16QAM	12	7	0	21.19	21.11	21.51		
5	16QAM	12	13	0	21.22	21.19	21.23	23	0
5	16QAM	25	0	0	21.11	21.32	21.32		
5	64QAM	1	0	0	21.08	21.14	21.08		
5	64QAM	1	12	0	21.02	21.32	21.14		
5	64QAM	1	24	0	21.07	21.06	21.23	23	0
5	64QAM	12	0	0	21.18	21.29	21.23		
5	64QAM	12	7	0	21.08	21.26	21.12		
5	64QAM	12	13	0	21.46	21.30	21.19		
5	64QAM	25	0	0	21.12	21.11	21.17	22	1
5	256QAM	1	0	0	21.25	21.30	21.26		
5	256QAM	1	12	0	21.26	21.32	21.35		
5	256QAM	1	24	0	21.12	21.24	21.20		
5	256QAM	12	0	0	21.34	21.36	21.41	22	1
5	256QAM	12	7	0	21.45	21.50	21.48		
5	256QAM	12	13	0	21.32	21.28	21.40		
5	256QAM	25	0	0	21.28	21.34	21.36		



Band 2 Ant0 for ENDC Sensor&Hotspot												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Time-up (min)	APRS (dB)				
Channel										1800.0	1800.5	1801.0
Frequency (MHz)										1800.0	1800.5	1801.0
20	QPSK	50	0	11.20	11.47	11.72						
20	QPSK	1	49	11.21	11.31	11.29	13	0				
20	QPSK	36	0	11.26	11.32	11.32						
20	QPSK	50	0	11.31	11.46	11.24						
20	QPSK	50	24	11.32	11.35	11.26						
20	QPSK	50	49	11.35	11.45	11.40	13	0				
20	16QAM	100	0	11.38	11.52	11.32						
20	16QAM	1	49	11.41	11.43	11.27	13	0				
20	16QAM	50	0	11.47	11.57	11.32						
20	16QAM	50	24	11.48	11.51	11.24						
20	16QAM	50	49	11.50	11.50	11.25	13	0				
20	16QAM	100	0	11.51	11.35	11.26						
20	16QAM	1	0	11.41	11.35	11.35						
20	16QAM	1	49	11.35	11.43	11.12	13	0				
20	16QAM	36	0	11.37	11.38	11.38						
20	16QAM	50	24	11.37	11.38	11.38						
20	16QAM	50	49	11.38	11.41	11.12	13	0				
20	16QAM	100	0	11.39	11.39	11.23						
20	16QAM	1	0	11.29	11.13	11.14						
20	16QAM	1	49	11.13	11.20	11.05	13	0				
20	16QAM	36	0	11.24	11.31	11.05						
20	16QAM	50	24	11.30	11.17	11.11						
20	16QAM	50	49	11.13	11.25	11.14	13	0				
20	16QAM	100	0	11.30	11.19	11.05						
20	16QAM	1	0	11.20	11.13	11.05						
20	16QAM	1	49	11.13	11.31	11.05	13	0				
20	16QAM	36	0	11.18	11.27	11.25						
20	16QAM	50	24	11.23	11.18	11.25						
20	16QAM	50	49	11.18	11.27	11.25	13	0				
20	16QAM	100	0	11.24	11.28	11.21						
20	16QAM	1	74	11.00	11.21	11.14						
20	16QAM	1	49	11.04	11.09	11.09	13	0				
20	16QAM	36	0	11.21	11.18	11.22						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0	11.21	11.28	11.05						
20	16QAM	50	24	11.20	11.26	11.05						
20	16QAM	50	49	11.00	11.26	11.05	13	0				
20	16QAM	100	0	11.18	11.26	11.22						
20	16QAM	1	0	11.18	11.22	11.25						
20	16QAM	1	49	11.21	11.28	11.07	13	0				
20	16QAM	36	0	11.20	11.28	11.05						
20	16QAM	50	24	11.18	11.26	11.22						
20	16QAM	50	49	11.26	11.24	11.08	13	0				
20	16QAM	100	0	11.20	11.19	11.05						
20	16QAM	1	0	11.17	11.15	11.19						
20	16QAM	1	49	11.15	11.28	11.07	13	0				
20	16QAM	36	0									



Band 7 Ant1 for ENDC Sensor&Handheld

RF BWS	Modulation	RB Size	RB Offset	Power Low	Power High	Power Max	Power Min	Time-up (min)	MPK (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	50	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	50	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	100	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	100	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	12800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	12800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	25600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	25600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	51200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	51200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	102400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	102400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	204800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	204800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	409600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	409600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	819200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	819200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1638400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1638400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3276800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3276800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6553600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6553600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13107200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13107200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	26214400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	26214400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	52428800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	52428800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	104857600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	104857600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	209715200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	209715200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	419430400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	419430400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	838860800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	838860800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1677721600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1677721600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3355443200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3355443200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6710886400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6710886400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13421772800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13421772800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	26843545600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	26843545600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	53687091200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	53687091200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	107374182400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	107374182400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	214748364800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	214748364800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	429496729600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	429496729600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	858993459200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	858993459200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1717986918400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1717986918400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3435973836800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3435973836800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6871947673600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	6871947673600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13743895347200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	13743895347200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	27487790694400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	27487790694400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	54975581388800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	54975581388800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	109951162777600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	109951162777600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	219902325555200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	219902325555200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	439804651110400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	439804651110400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	879609302220800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	879609302220800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1759218644441600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	1759218644441600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3518437288883200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	3518437288883200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	7036874577766400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	7036874577766400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	14073749155532800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	14073749155532800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	28147498311065600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	28147498311065600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	56294996622131200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	56294996622131200	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	112589993244262400	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	112589993244262400	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	225179986488524800	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	225179986488524800	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	450359972977049600	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	450359972977049600	49	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	900719945954099200	0	16.35	16.50	16.50	16.35	17.5	0
20	QPSK	900719945954099200	49	16.35	16.50</				



Band 66 Ant1 for ENDC Hotspot

BW (MHz)	Modulation	RB Size	RB Offset	Frame Low	Frame High	Frame High	Time-up (min)	APR (dB)
Channel	Frequency (MHz)	LCF	LCF	LCF	LCF	LCF		
20	QPSK	1	0	15.91	15.91	15.91	17.5	0
20	QPSK	1	49	15.96	15.96	15.96	17.5	0
20	QPSK	1	97	16.01	16.01	16.01	17.5	0
20	QPSK	1	145	16.06	16.06	16.06	17.5	0
20	QPSK	1	193	16.11	16.11	16.11	17.5	0
20	QPSK	1	241	16.16	16.16	16.16	17.5	0
20	QPSK	1	289	16.21	16.21	16.21	17.5	0
20	QPSK	1	337	16.26	16.26	16.26	17.5	0
20	QPSK	1	385	16.31	16.31	16.31	17.5	0
20	QPSK	1	433	16.36	16.36	16.36	17.5	0
20	QPSK	1	481	16.41	16.41	16.41	17.5	0
20	QPSK	1	529	16.46	16.46	16.46	17.5	0
20	QPSK	1	577	16.51	16.51	16.51	17.5	0
20	QPSK	1	625	16.56	16.56	16.56	17.5	0
20	QPSK	1	673	16.61	16.61	16.61	17.5	0
20	QPSK	1	721	16.66	16.66	16.66	17.5	0
20	QPSK	1	769	16.71	16.71	16.71	17.5	0
20	QPSK	1	817	16.76	16.76	16.76	17.5	0
20	QPSK	1	865	16.81	16.81	16.81	17.5	0
20	QPSK	1	913	16.86	16.86	16.86	17.5	0
20	QPSK	1	961	16.91	16.91	16.91	17.5	0
20	QPSK	1	1009	16.96	16.96	16.96	17.5	0
20	QPSK	1	1057	17.01	17.01	17.01	17.5	0
20	QPSK	1	1105	17.06	17.06	17.06	17.5	0
20	QPSK	1	1153	17.11	17.11	17.11	17.5	0
20	QPSK	1	1201	17.16	17.16	17.16	17.5	0
20	QPSK	1	1249	17.21	17.21	17.21	17.5	0
20	QPSK	1	1297	17.26	17.26	17.26	17.5	0
20	QPSK	1	1345	17.31	17.31	17.31	17.5	0
20	QPSK	1	1393	17.36	17.36	17.36	17.5	0
20	QPSK	1	1441	17.41	17.41	17.41	17.5	0
20	QPSK	1	1489	17.46	17.46	17.46	17.5	0
20	QPSK	1	1537	17.51	17.51	17.51	17.5	0
20	QPSK	1	1585	17.56	17.56	17.56	17.5	0
20	QPSK	1	1633	17.61	17.61	17.61	17.5	0
20	QPSK	1	1681	17.66	17.66	17.66	17.5	0
20	QPSK	1	1729	17.71	17.71	17.71	17.5	0
20	QPSK	1	1777	17.76	17.76	17.76	17.5	0
20	QPSK	1	1825	17.81	17.81	17.81	17.5	0
20	QPSK	1	1873	17.86	17.86	17.86	17.5	0
20	QPSK	1	1921	17.91	17.91	17.91	17.5	0
20	QPSK	1	1969	17.96	17.96	17.96	17.5	0
20	QPSK	1	2017	18.01	18.01	18.01	17.5	0
20	QPSK	1	2065	18.06	18.06	18.06	17.5	0
20	QPSK	1	2113	18.11	18.11	18.11	17.5	0
20	QPSK	1	2161	18.16	18.16	18.16	17.5	0
20	QPSK	1	2209	18.21	18.21	18.21	17.5	0
20	QPSK	1	2257	18.26	18.26	18.26	17.5	0
20	QPSK	1	2305	18.31	18.31	18.31	17.5	0
20	QPSK	1	2353	18.36	18.36	18.36	17.5	0
20	QPSK	1	2401	18.41	18.41	18.41	17.5	0
20	QPSK	1	2449	18.46	18.46	18.46	17.5	0
20	QPSK	1	2497	18.51	18.51	18.51	17.5	0
20	QPSK	1	2545	18.56	18.56	18.56	17.5	0
20	QPSK	1	2593	18.61	18.61	18.61	17.5	0
20	QPSK	1	2641	18.66	18.66	18.66	17.5	0
20	QPSK	1	2689	18.71	18.71	18.71	17.5	0
20	QPSK	1	2737	18.76	18.76	18.76	17.5	0
20	QPSK	1	2785	18.81	18.81	18.81	17.5	0
20	QPSK	1	2833	18.86	18.86	18.86	17.5	0
20	QPSK	1	2881	18.91	18.91	18.91	17.5	0
20	QPSK	1	2929	18.96	18.96	18.96	17.5	0
20	QPSK	1	2977	19.01	19.01	19.01	17.5	0
20	QPSK	1	3025	19.06	19.06	19.06	17.5	0
20	QPSK	1	3073	19.11	19.11	19.11	17.5	0
20	QPSK	1	3121	19.16	19.16	19.16	17.5	0
20	QPSK	1	3169	19.21	19.21	19.21	17.5	0
20	QPSK	1	3217	19.26	19.26	19.26	17.5	0
20	QPSK	1	3265	19.31	19.31	19.31	17.5	0
20	QPSK	1	3313	19.36	19.36	19.36	17.5	0
20	QPSK	1	3361	19.41	19.41	19.41	17.5	0
20	QPSK	1	3409	19.46	19.46	19.46	17.5	0
20	QPSK	1	3457	19.51	19.51	19.51	17.5	0
20	QPSK	1	3505	19.56	19.56	19.56	17.5	0
20	QPSK	1	3553	19.61	19.61	19.61	17.5	0
20	QPSK	1	3601	19.66	19.66	19.66	17.5	0
20	QPSK	1	3649	19.71	19.71	19.71	17.5	0
20	QPSK	1	3697	19.76	19.76	19.76	17.5	0
20	QPSK	1	3745	19.81	19.81	19.81	17.5	0
20	QPSK	1	3793	19.86	19.86	19.86	17.5	0
20	QPSK	1	3841	19.91	19.91	19.91	17.5	0
20	QPSK	1	3889	19.96	19.96	19.96	17.5	0
20	QPSK	1	3937	20.01	20.01	20.01	17.5	0
20	QPSK	1	3985	20.06	20.06	20.06	17.5	0
20	QPSK	1	4033	20.11	20.11	20.11	17.5	0
20	QPSK	1	4081	20.16	20.16	20.16	17.5	0
20	QPSK	1	4129	20.21	20.21	20.21	17.5	0
20	QPSK	1	4177	20.26	20.26	20.26	17.5	0
20	QPSK	1	4225	20.31	20.31	20.31	17.5	0
20	QPSK	1	4273	20.36	20.36	20.36	17.5	0
20	QPSK	1	4321	20.41	20.41	20.41	17.5	0
20	QPSK	1	4369	20.46	20.46	20.46	17.5	0
20	QPSK	1	4417	20.51	20.51	20.51	17.5	0
20	QPSK	1	4465	20.56	20.56	20.56	17.5	0
20	QPSK	1	4513	20.61	20.61	20.61	17.5	0
20	QPSK	1	4561	20.66	20.66	20.66	17.5	0
20	QPSK	1	4609	20.71	20.71	20.71	17.5	0
20	QPSK	1	4657	20.76	20.76	20.76	17.5	0
20	QPSK	1	4705	20.81	20.81	20.81	17.5	0
20	QPSK	1	4753	20.86	20.86	20.86	17.5	0
20	QPSK	1	4801	20.91	20.91	20.91	17.5	0
20	QPSK	1	4849	20.96	20.96	20.96	17.5	0
20	QPSK	1	4897	21.01	21.01	21.01	17.5	0
20	QPSK	1	4945	21.06	21.06	21.06	17.5	0
20	QPSK	1	4993	21.11	21.11	21.11	17.5	0
20	QPSK	1	5041	21.16	21.16	21.16	17.5	0
20	QPSK	1	5089	21.21	21.21	21.21	17.5	0
20	QPSK	1	5137	21.26	21.26	21.26	17.5	0
20	QPSK	1	5185	21.31	21.31	21.31	17.5	0
20	QPSK	1	5233	21.36	21.36	21.36	17.5	0
20	QPSK	1	5281	21.41	21.41	21.41	17.5	0
20	QPSK	1	5329	21.46	21.46	21.46	17.5	0
20	QPSK	1	5377	21.51	21.51	21.51	17.5	0
20	QPSK	1	5425	21.56	21.56	21.56	17.5	0
20	QPSK	1	5473	21.61	21.61	21.61	17.5	0
20	QPSK	1	5521	21.66	21.66	21.66	17.5	0
20	QPSK	1	5569	21.71	21.71	21.71	17.5	0
20	QPSK	1	5617	21.76	21.76	21.76	17.5	0
20	QPSK	1	5665	21.81	21.81	21.81	17.5	0
20	QPSK	1	5713	21.86	21.86	21.86	17.5	0
20	QPSK	1	5761	21.91	21.91	21.91	17.5	0
20	QPSK	1	5809	21.96	21.96	21.96	17.5	0
20	QPSK	1	5857	22.01	22.01	22.01	17.5	0
20	QPSK	1	5905	22.06	22.06	22.06	17.5	0
20	QPSK	1	5953	22.11	22.11	22.11	17.5	0
20	QPSK	1	6001	22.16	22.16	22.16	17.5	0
20	QPSK	1	6049	22.21	22.21	22.21	17.5	0
20	QPSK	1	6097	22.26	22.26	22.26	17.5	0
20	QPSK	1	6145	22.31	22.31	22.31	17.5	0
20	QPSK	1	6193	22.36	22.36	22.36	17.5	0
20	QPSK	1	6241	22.41	22.41	22.41	17.5	0
20	QPSK	1	6289	22.46	22.46	22.46	17.5	0
20	QPSK	1	6337	22.51	22.51	22.51	17.5	0
20	QPSK	1	6385	22.56	22.56	22.56	17.5	0
20	QPSK	1	6433	22.61	22.61	22.61	17.5	0
20	QPSK	1	6481	22.66	22.66	22.66	17.5	0
20	QPSK	1	6529	22.71	22.71	22.71	17.5	0
20	QPSK	1	6577	22.76	22.76	22.76	17.5	0
20	QPSK	1	6625	22.81	22.81	22.81	17.5	0
20	QPSK	1	6673	22.86	22.86	22.86	17.5	0
20	QPSK	1	6721	22.91	22.91	22.91	17.5	0
20	QPSK	1	6769	22.96	22.96	22.96	17.5	0
20	QPSK	1	6817	23.01	23.01	23.01	17.5	0
20	QPSK	1	6865	23.06	23.06	23.06	17.5	0
20	QPSK	1	6913	23.11	23.11	23.11	17.5	0
20	QPSK	1	6961	23.16	23.16	23.16	17.5	0
20	QPSK	1	7009	23.21	23.21	23.21	17.5	0
20	QPSK	1	7057	23.26	23.26	23.26	17.5	0
20	QPSK	1	7105	23.31	23.31	23.31	17.5	0
20	QPSK	1	7153	23.36	23.36	23.36	17.5	0
20	QPSK	1	7201	23.41	23.41	23.41	17.5	0
20	QPSK	1	7249	23.4				



Band 41 Ant1 for ENDC Receiver

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Power	Time-up limit (dBm)	MPR (dB)	
				Low Ch./Freq.	Low-Mid Ch./Freq.	Mid Ch./Freq.	High-Mid Ch./Freq.	High Ch./Freq.			
Channel 1											
				20720	20816	20912	21008	21104	21200		
				2508	2540.5	2573	2605.5	2638	2670.5		
20	QPSK	1	0	20.85	20.89	21.20	20.92	21.07		21.5	0
20	QPSK	1	40	21.10	20.89	21.02	21.19	21.19			
20	QPSK	1	80	20.82	21.02	20.92	20.74	20.82			
20	QPSK	1	120	21.05	21.06	21.16	20.91	20.96			
20	QPSK	50	24	21.17	20.86	21.10	21.13	20.90		21.5	0
20	QPSK	50	60	21.14	21.06	21.16	20.95	20.91			
20	QPSK	100	0	21.05	21.05	21.15	20.95	20.91			
20	HQDM	1	0	21.15	20.73	21.00	21.17	21.05		21.5	0
20	HQDM	1	40	20.90	20.92	20.79	20.73	20.92			
20	HQDM	1	80	20.88	20.86	20.85	20.78	20.85			
20	HQDM	1	120	20.94	20.81	20.81	20.71	20.86			
20	HQDM	50	24	20.72	20.88	20.78	20.83	20.82		21.5	0
20	HQDM	50	60	20.87	20.82	21.11	20.77	20.78			
20	HQDM	50	80	21.07	20.82	20.77	20.79	20.89			
20	HQDM	1	0	20.88	20.95	20.79	20.84	20.78		21.5	0
20	HQDM	1	40	20.95	20.85	20.97	20.87	20.89			
20	HQDM	1	80	20.87	20.87	20.80	20.69	20.86			
20	HQDM	50	24	20.84	19.98	19.94	20.09	19.84		21	0.5
20	HQDM	50	60	19.79	18.88	18.85	19.83	19.81			
20	HQDM	50	80	20.01	20.03	20.13	19.89	19.78			
20	25HQDM	1	0	17.84	17.83	18.03	17.91	17.85		19	2.5
20	25HQDM	1	40	17.84	17.84	18.03	17.91	17.84			
20	25HQDM	1	80	17.83	18.04	18.08	17.86	17.88			
20	25HQDM	1	120	18.03	18.04	18.16	18.03	18.03			
20	25HQDM	50	24	17.78	17.80	17.94	17.81	17.80		19	2.5
20	25HQDM	50	60	18.05	18.03	18.08	18.05	18.12			
20	25HQDM	50	80	17.80	17.89	18.03	18.03	17.80			
Channel 2											
				30720	30816	30912	31008	31104	31200		
				3508	3540.5	3573	3605.5	3638	3670.5		
15	QPSK	1	0	20.85	20.92	20.87	20.73	20.83			
15	QPSK	1	37	21.04	20.88	20.91	21.05	20.83		21.50	0
15	QPSK	1	74	20.71	20.82	20.81	20.69	20.82			
15	QPSK	36	0	20.88	20.87	20.96	20.83	20.85		21.5	0
15	QPSK	36	20	21.07	20.78	20.80	21.02	20.87			
15	QPSK	36	36	20.80	20.99	20.80	20.81	20.73			
15	QPSK	36	56	20.81	20.86	20.88	20.81	20.83			
15	HQDM	1	0	21.01	20.87	21.05	20.88	20.81			
15	HQDM	1	37	20.89	20.70	20.79	20.87	20.83		21.5	0
15	HQDM	1	74	20.70	20.82	20.77	20.79	20.89			
15	HQDM	36	0	20.89	20.79	20.71	20.89	20.80			
15	HQDM	36	20	20.80	20.80	20.81	20.69	20.73			
15	HQDM	36	36	20.71	20.72	21.02	20.87	20.72		21.5	0
15	HQDM	36	56	21.01	20.94	20.84	20.84	20.84			
15	HQDM	7	0	20.83	20.81	20.71	20.79	20.87			
15	HQDM	1	37	20.77	20.78	20.82	20.88	20.79		21.5	0
15	HQDM	74	20	20.84	20.82	20.86	20.84	20.82			
15	HQDM	36	0	18.80	18.77	18.80	18.72	18.83			
15	HQDM	36	20	18.81	18.81	18.86	18.86	18.86			
15	HQDM	36	36	18.84	18.81	18.81	18.71	18.74		21	0.5
15	HQDM	7	0	17.83	17.80	18.05	17.85	17.86			
15	25HQDM	1	37	17.81	17.88	17.88	17.85	17.81		19	2.5
15	25HQDM	74	17	17.87	17.87	18.00	18.00	17.80			
15	25HQDM	36	0	18.05	18.13	18.07	18.08	18.11			
15	25HQDM	36	20	17.81	17.81	17.86	17.83	17.84			
15	25HQDM	36	36	18.01	18.04	18.09	18.01	18.13			
15	25HQDM	7	0	17.80	17.88	18.07	17.86	17.84			
Channel 3											
				35720	35816	35912	36008	36104	36200		
				4008	4040.5	4073	4105.5	4138	4170.5		
10	QPSK	1	0	20.81	20.84	20.84	20.78	20.81			
10	QPSK	1	25	20.89	20.80	20.82	21.05	20.85		21.50	0
10	QPSK	1	50	20.84	20.86	20.86	20.76	20.84			
10	QPSK	25	0	20.89	20.88	20.93	20.75	20.84			
10	QPSK	25	15	20.88	20.75	20.70	20.84	20.71		21.5	0
10	QPSK	25	45	20.81	20.87	20.89	20.89	20.81			
10	QPSK	50	0	20.88	20.84	21.08	20.78	20.88			
10	HQDM	1	0	21.02	20.80	21.04	20.81	21.01			
10	HQDM	1	25	20.78	20.77	20.78	20.82	20.83		21.5	0
10	HQDM	1	50	20.89	20.80	20.81	20.73	20.87			
10	HQDM	1	75	20.70	20.82	20.77	20.79	20.89			
10	HQDM	25	0	20.82	20.70	20.84	20.80	20.71		21.5	0
10	HQDM	25	25	20.79	20.76	21.01	20.87	20.83			
10	HQDM	50	0	20.81	20.91	20.84	20.85	20.78			
10	HQDM	50	25	20.81	20.72	20.87	20.80	20.86			
10	HQDM	1	25	20.77	20.81	20.88	20.85	20.71		21.5	0
10	HQDM	1	50	20.77	20.67	20.70	20.81	20.89			
10	HQDM	25	0	18.84	18.76	18.76	18.73	18.79			
10	HQDM	25	12	18.84	18.80	18.83	18.96	18.80		21	0.5
10	HQDM	25	25	18.81	18.86	18.86	18.73	18.82			
10	HQDM	50	0	18.81	18.86	18.87	18.72	18.73			
10	25HQDM	1	0	17.80	17.86	18.06	17.87	17.86			
10	25HQDM	1	25	17.84	17.80	17.87	17.77	17.78		19	2.5
10	25HQDM	1	50	17.87	18.01	18.02	17.91	17.89			
10	25HQDM	25	0	17.87	18.06	18.12	18.06	18.05			
10	25HQDM	25	12	17.82	17.77	17.88	17.85	17.88		19	2.5
10	25HQDM	25	25	18.01	18.00	18.14	18.01	18.12			
10	25HQDM	50	0	17.88	17.86	18.08	17.87	17.80			
Channel 4											
				40720	40816	40912	41008	41104	41200		
				4508	4540.5	4573	4605.5	4638	4670.5		
5	QPSK	1	0	20.85	20.81	20.86	20.74	21.02			
5	QPSK	1	12	20.70	20.78	20.87	20.89	20.81		21.50	0
5	QPSK	1	24	20.82	20.84	20.87	20.89	20.78			
5	QPSK	12	0	20.81	21.04	21.08	20.81	20.81			
5	QPSK	12	7	20.73	20.76	20.87	21.03	20.90		21.5	0
5	QPSK	12	15	20.82	20.87	20.81	20.80	20.84			
5	QPSK	12	45	20.81	20.86	20.81	20.74	20.73			
5	HQDM	1	0	21.09	20.85	21.03	21.12	20.89			
5	HQDM	1	12	20.81	20.83	20.86	20.75	20.88		21.5	0
5	HQDM	1	24	20.70	20.78	20.73	20.74	20.78			
5	HQDM	1	36	20.81	20.84	20.86	20.75	20.88			
5	HQDM	12	7	20.81	20.79	20.87	20.88	20.77		21.5	0
5	HQDM	12	15	20.82	20.74	20.80	20.83	20.74			
5	HQDM	25	0	21.03	20.71	20.83	20.80	20.78			
5	HQDM	1	0	20.84	20.76	20.80	20.82	20.88			
5	HQDM	1	12	20.81	20.71	20.86	20.71	20.86		21.5	0
5	HQDM	1	24	20.88	20.86	20.86	20.82	20.80			
5	HQDM	12	0	17.83	18.04	18.05	18.05	18.04			
5	HQDM	12	15	18.81	18.88	18.74	18.70	18.88		21	0.5
5	HQDM	25	0	18.82	18.86	18.70					



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Band 7 Ant5 for ENDC Sensor&Hotspot

BW (MHz)	Modulation	RB Size	RB Offset	Power Low (dBm)	Power Media (dBm)	Power High (dBm)	Time-up (sec)	APRS (dB)
Channel								
Frequency (MHz)								
20	QPSK	0	0	15.12	15.12	15.12		
20	QPSK	1	49	15.09	15.09	15.09	16	0
20	QPSK	1	99	15.17	15.17	15.17		
20	QPSK	50	0	15.10	15.10	15.11		
20	QPSK	50	24	15.11	15.02	15.12	16	0
20	QPSK	100	0	15.04	15.17	15.15		
20	16QAM	1	0	15.02	15.03	15.02		
20	16QAM	1	49	15.12	15.11	15.09	16	0
20	16QAM	1	99	14.99	15.11	15.09		
20	16QAM	50	0	15.05	15.03	14.95		
20	16QAM	50	24	15.09	15.09	14.99	16	0
20	16QAM	100	0	14.93	14.97	14.83		
20	16QAM	1	0	14.94	15.11	14.99		
20	16QAM	1	49	14.95	14.95	14.95	16	0
20	16QAM	1	99	14.81	14.80	14.80		
20	16QAM	50	0	14.90	15.03	14.85		
20	16QAM	50	24	14.83	14.90	14.83	16	0
20	16QAM	100	0	14.90	14.85	14.80		
20	256QAM	1	0	14.88	14.78	14.69		
20	256QAM	1	49	14.97	14.83	14.83	16	0
20	256QAM	1	99	14.91	14.74	14.67		
20	256QAM	50	24	14.81	14.75	14.65	16	0
20	256QAM	50	50	14.84	14.79	14.85		
20	256QAM	100	0	14.72	14.83	14.73		
Channel								
Frequency (MHz)								
15	QPSK	1	0	14.82	14.80	14.80		
16	QPSK	1	37	14.83	14.80	14.80	16	0
16	QPSK	1	74	14.80	14.80	14.80		
16	QPSK	36	5	15.12	15.12	15.00		
16	QPSK	36	20	14.97	14.72	15.05	16	0
16	QPSK	36	39	14.80	14.80	14.80		
16	QPSK	75	0	14.80	14.80	14.80		
16	16QAM	1	0	14.80	14.80	14.80		
16	16QAM	1	37	15.04	15.00	15.01	16	0
16	16QAM	1	74	14.80	14.84	15.00		
16	16QAM	36	0	14.87	14.79	14.74	16	0
16	16QAM	36	20	14.80	14.80	14.75		
16	16QAM	36	39	14.80	14.80	14.71	16	0
16	16QAM	75	0	14.80	14.75	14.85		
16	16QAM	1	0	14.72	15.05	14.81		
16	16QAM	1	37	14.79	14.80	14.83	16	0
16	16QAM	1	74	14.80	14.80	14.75		
16	16QAM	36	0	14.80	14.80	14.80		
16	16QAM	36	20	14.84	14.75	14.69	16	0
16	16QAM	36	39	14.80	14.80	14.71		
16	16QAM	75	0	14.80	14.75	14.85		
16	16QAM	1	0	14.72	15.05	14.81		
16	16QAM	1	37	14.79	14.80	14.83	16	0
16	16QAM	1	74	14.80	14.80	14.75		
16	16QAM	36	0	14.80	14.80	14.80		
16	16QAM	36	20	14.77	14.74	14.75	16	0
16	16QAM	36	39	14.80	14.80	14.71		
16	16QAM	75	0	14.80	14.80	14.80		
16	16QAM	1	0	14.72	14.81	14.83		
16	16QAM	1	49	14.83	14.73	14.73	16	0
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16	0
16	16QAM	100	0	14.72	14.81	14.83		
16	16QAM	1	0	14.83	14.73	14.73	16	0
16	16QAM	1	49	14.83	14.73	14.73		
16	16QAM	1	99	14.76	14.80	14.82		
16	16QAM	50	0	14.76	14.80	14.82		
16	16QAM	50	12	14.84	14.83	14.83	16	0
16	16QAM	50	25	14.79	14.83	14.75		
16	16QAM	50	38	14.80	14.80	14.71	16</	



Full Power Mode for 5G NR

n2 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	22.52	22.53	22.47	24.0	0.0	
20	PI/2 BPSK	1	53	22.50	22.48	22.44			
20	PI/2 BPSK	1	104	22.37	22.28	22.39			
20	PI/2 BPSK	50	0	22.10	21.95	22.00	23.5	0.5	
20	PI/2 BPSK	50	28	22.48	22.55	22.30	24.0	0.0	
20	PI/2 BPSK	50	56	21.98	22.05	21.90	23.5	0.5	
20	PI/2 BPSK	100	0	22.13	22.07	22.07			
20	QPSK	1	1	22.60	22.68	22.57	24.0	0.0	
20	QPSK	1	53	22.52	22.60	22.44			
20	QPSK	1	104	22.50	22.49	22.53			
20	QPSK	50	0	21.61	21.75	21.65	23.0	1.0	
20	QPSK	50	28	22.55	22.56	22.50	24.0	0.0	
20	QPSK	50	56	21.58	21.78	21.60	23.0	1.0	
20	QPSK	100	0	21.67	21.70	21.52			
20	16QAM	1	1	21.71	21.59	21.52	23.0	1.0	
20	64QAM	1	1	20.19	20.10	20.03	21.5	2.5	
20	256QAM	1	1	18.18	18.28	18.18	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	QPSK	1	1	22.45	22.55	22.46	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	24.0	0.0	
10	QPSK	1	1	22.61	22.56	22.38	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	24.0	0.0	
5	QPSK	1	1	22.60	22.52	22.37	24.0	0.0	

n5 Ant0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	22.84	23.18	23.13	24.0	0.0	
20	PI/2 BPSK	1	53	22.86	23.00	22.94			
20	PI/2 BPSK	1	104	22.86	23.12	23.12			
20	PI/2 BPSK	50	0	22.55	22.74	22.69	23.5	0.5	
20	PI/2 BPSK	50	28	23.06	23.17	22.96	24.0	0.0	
20	PI/2 BPSK	50	56	22.43	22.64	22.74	23.5	0.5	
20	PI/2 BPSK	100	0	22.56	22.77	22.53			
20	QPSK	1	1	23.05	23.19	23.15	24.0	0.0	
20	QPSK	1	53	22.99	22.88	22.95			
20	QPSK	1	104	23.03	23.16	22.94			
20	QPSK	50	0	22.02	22.13	22.16	23.0	1.0	
20	QPSK	50	28	22.96	23.14	23.09	24.0	0.0	
20	QPSK	50	56	22.15	22.24	22.11	23.0	1.0	
20	QPSK	100	0	21.94	22.19	22.08			
20	16QAM	1	1	22.12	22.28	22.09	23.0	1.0	
20	64QAM	1	1	20.66	20.61	20.60	21.5	2.5	
20	256QAM	1	1	18.47	18.70	18.66	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	QPSK	1	1	22.96	23.04	22.95	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	24.0	0.0	
10	QPSK	1	1	22.98	23.09	23.00	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	QPSK	1	1	22.98	23.10	22.94	24.0	0.0	



n7 Ant1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.82	22.96	22.86		
40	PI/2 BPSK	1	108	23.00	23.05	23.00	24.0	0.0
40	PI/2 BPSK	1	214	23.03	23.11	22.96		
40	PI/2 BPSK	108	0	22.35	22.48	22.40	23.5	0.5
40	PI/2 BPSK	108	54	23.06	23.14	23.05	24.0	0.0
40	PI/2 BPSK	108	108	22.55	22.71	22.66		
40	PI/2 BPSK	216	0	22.56	22.61	22.48	23.5	0.5
40	QPSK	1	1	23.06	23.18	23.13		
40	QPSK	1	108	22.93	23.07	22.93	24.0	0.0
40	QPSK	1	214	23.01	23.16	23.06		
40	QPSK	108	0	21.93	22.03	21.96	23.0	1.0
40	QPSK	108	54	23.06	23.12	23.02	24.0	0.0
40	QPSK	108	108	22.10	22.22	22.16		
40	QPSK	216	0	22.03	22.12	21.98	23.0	1.0
40	16QAM	1	1	22.17	22.22	22.15	23.0	1.0
40	64QAM	1	1	20.41	20.47	20.36	21.5	2.5
40	256QAM	1	1	18.53	18.61	18.56	19.5	4.5
Channel				503000	507000	511000		
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	22.95	23.13	23.07	24.0	0.0
Channel				502500	507000	511500		
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	22.97	23.14	23.07	24.0	0.0
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.99	23.06	22.98	24.0	0.0
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.96	23.09	23.03	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.99	23.07	23.08	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.93	23.11	23.00	24.0	0.0

n66 Ant1								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	22.57	22.71	22.65		
40	PI/2 BPSK	1	108	22.65	22.80	22.67	24.0	0.0
40	PI/2 BPSK	1	214	22.71	22.67	22.53		
40	PI/2 BPSK	108	0	22.28	22.26	22.24	23.5	0.5
40	PI/2 BPSK	108	54	22.65	22.87	22.55	24.0	0.0
40	PI/2 BPSK	108	108	22.12	22.36	22.19		
40	PI/2 BPSK	216	0	22.17	22.47	22.37	23.5	0.5
40	QPSK	1	1	22.73	22.88	22.75		
40	QPSK	1	108	22.55	22.79	22.74	24.0	0.0
40	QPSK	1	214	22.71	22.86	22.86		
40	QPSK	108	0	21.83	21.91	21.74	23.0	1.0
40	QPSK	108	54	22.51	22.82	22.54	24.0	0.0
40	QPSK	108	108	21.77	21.93	21.87		
40	QPSK	216	0	21.63	21.96	21.74	23.0	1.0
40	16QAM	1	1	21.82	21.89	21.82	23.0	1.0
40	64QAM	1	1	20.19	20.28	20.15	21.5	2.5
40	256QAM	1	1	18.15	18.33	18.32	19.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	22.57	22.73	22.68	24.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	22.65	22.77	22.74	24.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.53	22.88	22.62	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.64	22.88	22.61	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.59	22.67	22.63	24.0	0.0



Par270 n77 Ant2_FCC

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.70	22.76	22.80		
100	PI2 BPSK	1	137	22.67	22.87	22.73	24.0	0.0
100	PI2 BPSK	1	271	22.75	22.84	22.72		
100	PI2 BPSK	135	0	22.45	22.51	22.34	23.5	0.5
100	PI2 BPSK	135	69	22.88	22.95	22.75	24.0	0.0
100	PI2 BPSK	135	138	22.38	22.47	22.26	23.5	0.5
100	PI2 BPSK	270	0	22.34	22.38	22.26		
100	QPSK	1	1	22.89	22.96	22.85		
100	QPSK	1	137	22.87	22.86	22.81	24.0	0.0
100	QPSK	1	271	22.88	22.74	22.94		
100	QPSK	135	0	21.98	21.97	21.84	23.0	1.0
100	QPSK	135	69	22.69	22.86	22.75	24.0	0.0
100	QPSK	135	138	21.93	22.07	21.92	23.0	1.0
100	QPSK	270	0	21.98	22.07	21.76		
100	16QAM	1	1	21.87	21.88	21.89	23.0	1.0
100	64QAM	1	1	20.35	20.50	20.27	21.5	2.5
100	256QAM	1	1	18.40	18.57	18.30	19.5	4.5
Channel								
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.74	22.89	22.64	24.0	0.0
Channel								
Frequency (MHz)				3483.34	3500	3516.66		
80	QPSK	1	1	22.85	22.74	22.77	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR
70	QPSK	1	1	22.07	22.71	22.79	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit	MPR
60	QPSK	1	1	22.74	22.81	22.79	24.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3950.02		
50	QPSK	1	1	22.88	22.85	22.74	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	22.65	22.91	22.72	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	651334	Tune-up limit	MPR
30	QPSK	1	1	22.71	22.82	22.86	24.0	0.0
Channel								
Frequency (MHz)				3718.01	3840	3970.02		
20	QPSK	1	1	22.81	22.78	22.84	24.0	0.0

Part270 n77 Ant2_FCC

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1		22.68			
100	PI2 BPSK	1	137		22.97		24.0	0.0
100	PI2 BPSK	1	271		22.71			
100	PI2 BPSK	135	0		22.31		23.5	0.5
100	PI2 BPSK	135	69		22.86		24.0	0.0
100	PI2 BPSK	135	138		22.25		23.5	0.5
100	PI2 BPSK	270	0		22.26			
100	QPSK	1	1		22.78			
100	QPSK	1	137		22.73		24.0	0.0
100	QPSK	1	271		22.71			
100	QPSK	135	0		21.78		23.0	1.0
100	QPSK	135	69		22.59		24.0	0.0
100	QPSK	135	138		21.81		23.0	1.0
100	QPSK	270	0		21.75			
100	16QAM	1	1		21.68		23.0	1.0
100	64QAM	1	1		20.33		21.5	2.5
100	256QAM	1	1		18.39		19.5	4.5
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit	MPR
90	QPSK	1	1	22.50	22.05	22.55	24.0	0.0
Channel								
Frequency (MHz)				630988	633334	634000	Tune-up limit	MPR
80	QPSK	1	1	22.34	22.60	22.34	24.0	0.0
Channel								
Frequency (MHz)				633334	633334	634334	Tune-up limit	MPR
70	QPSK	1	1	22.21	22.50	22.42	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634988	Tune-up limit	MPR
60	QPSK	1	1	22.34	22.46	22.38	24.0	0.0
Channel								
Frequency (MHz)				631868	633334	633000	Tune-up limit	MPR
50	QPSK	1	1	22.40	22.49	22.52	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit	MPR
40	QPSK	1	1	22.29	22.58	22.48	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	636988	Tune-up limit	MPR
30	QPSK	1	1	22.45	22.52	22.39	24.0	0.0
Channel								
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.36	22.60	22.34	24.0	0.0

Part270 n78 Ant2_FCC

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		22.55			
100	PI2 BPSK	1	137		22.00		24.0	0.0
100	PI2 BPSK	1	271		22.97			
100	PI2 BPSK	135	0		22.82		23.5	0.5
100	PI2 BPSK	135	69		22.77		24.0	0.0
100	PI2 BPSK	135	138		22.50		23.5	0.5
100	PI2 BPSK	270	0		22.82			
100	QPSK	1	1		23.06			
100	QPSK	1	137		22.98		24.0	0.0
100	QPSK	1	271		22.90			
100	QPSK	135	0		22.17		23.0	1.0
100	QPSK	135	69		22.92		24.0	0.0
100	QPSK	135	138		21.99		23.0	1.0
100	QPSK	270	0		21.97			
100	16QAM	1	1		20.94		21.5	2.5
100	64QAM	1	1		20.54		21.5	2.5
100	256QAM	1	1		18.87		19.5	4.5
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit	MPR
90	QPSK	1	1	22.94	22.97	22.96	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit	MPR
80	QPSK	1	1	22.82	22.77	22.92	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit	MPR
70	QPSK	1	1	22.92	22.71	22.79	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit	MPR
60	QPSK	1	1	22.81	22.97	22.94	24.0	0.0
Channel								
Frequency (MHz)				3730.02	3750	3770.01		
50	QPSK	1	1	22.93	22.89	22.84	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit	MPR
40	QPSK	1	1	22.95	22.81	22.79	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit	MPR
30	QPSK	1	1	22.84	22.83	22.84	24.0	0.0
Channel								
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.92	22.77	22.88	24.0	0.0



Part270 n78 Ant2_FCC PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.32	25.32	25.32				
100	PI2 BPSK	1	137	25.20	25.20	25.20	27.0	0.0		
100	PI2 BPSK	1	271	25.19	25.19	25.19				
100	PI2 BPSK	135	0	24.83	24.83	24.83	26.5	0.5		
100	PI2 BPSK	135	69	25.30	25.30	25.30	27.0	0.0		
100	PI2 BPSK	135	138	24.69	24.69	24.69	26.5	0.5		
100	PI2 BPSK	270	0	24.88	24.88	24.88				
100	QPSK	1	1	24.29	24.29	24.29				
100	QPSK	1	137	24.12	24.12	24.12	27.0	0.0		
100	QPSK	1	271	24.15	24.15	24.15				
100	QPSK	135	0	23.33	23.33	23.33	26.0	1.0		
100	QPSK	135	69	24.14	24.14	24.14	27.0	0.0		
100	QPSK	135	138	23.19	23.19	23.19	26.0	1.0		
100	QPSK	270	0	23.13	23.13	23.13				
100	16QAM	1	1	23.21	23.21	23.21	26.0	1.0		
100	16QAM	1	1	21.69	21.69	21.69	24.5	2.5		
100	25QAM	1	1	19.80	19.80	19.80	22.5	4.5		
Channel										
Frequency (MHz)										
90	PI2 BPSK	1	1	25.24	25.24	25.24	27.0	0.0		
Channel										
Frequency (MHz)										
80	PI2 BPSK	1	1	25.25	25.25	25.25	27.0	0.0		
Channel										
Frequency (MHz)										
70	PI2 BPSK	1	1	25.20	25.20	25.14	27.0	0.0		
Channel										
Frequency (MHz)										
60	PI2 BPSK	1	1	25.26	25.43	25.15	27.0	0.0		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	25.27	25.40	25.11	27.0	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	25.30	25.36	25.20	27.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	25.42	25.33	25.16	27.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	25.30	25.36	25.15	27.0	0.0		

Part27Q 78 Ant2_FCC										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	22.51	22.51	22.51				
100	PI2 BPSK	1	137	22.56	22.56	22.56	24.0	0.0		
100	PI2 BPSK	1	271	22.57	22.57	22.57				
100	PI2 BPSK	135	0	22.17	22.17	22.17	23.5	0.5		
100	PI2 BPSK	135	69	22.50	22.50	22.50	24.0	0.0		
100	PI2 BPSK	135	138	22.11	22.11	22.11	23.5	0.5		
100	PI2 BPSK	270	0	22.01	22.01	22.01				
100	QPSK	1	1	22.63	22.63	22.63				
100	QPSK	1	137	22.44	22.44	22.44	24.0	0.0		
100	QPSK	1	271	22.62	22.62	22.62				
100	QPSK	135	0	21.53	21.53	21.53	23.0	1.0		
100	QPSK	135	69	22.44	22.44	22.44	24.0	0.0		
100	QPSK	135	138	21.70	21.70	21.70	23.0	1.0		
100	QPSK	270	0	21.60	21.60	21.60				
100	16QAM	1	1	21.59	21.59	21.59	23.0	1.0		
100	16QAM	1	1	20.12	20.12	20.12	21.5	2.5		
100	25QAM	1	1	18.22	18.22	18.22	19.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.42	22.60	22.49	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.25	22.57	22.44	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.40	22.50	22.39	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.37	22.57	22.36	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.29	22.53	22.32	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.22	22.45	22.40	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.27	22.53	22.43	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.41	22.53	22.49	24.0	0.0		

Part27Q 78 Ant2_FCC PC2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	25.36	25.36	25.36				
100	PI2 BPSK	1	137	25.14	25.14	25.14	27.0	0.0		
100	PI2 BPSK	1	271	25.25	25.25	25.25				
100	PI2 BPSK	135	0	24.86	24.86	24.86	26.5	0.5		
100	PI2 BPSK	135	69	25.28	25.28	25.28	27.0	0.0		
100	PI2 BPSK	135	138	24.68	24.68	24.68	26.5	0.5		
100	PI2 BPSK	270	0	24.73	24.73	24.73				
100	QPSK	1	1	23.68	23.68	23.68				
100	QPSK	1	137	23.48	23.48	23.48	27.0	0.0		
100	QPSK	1	271	23.59	23.59	23.59				
100	QPSK	135	0	22.78	22.78	22.78	26.0	1.0		
100	QPSK	135	69	23.49	23.49	23.49	27.0	0.0		
100	QPSK	135	138	22.54	22.54	22.54	26.0	1.0		
100	QPSK	270	0	22.52	22.52	22.52				
100	16QAM	1	1	22.58	22.58	22.58	26.0	1.0		
100	16QAM	1	1	21.09	21.09	21.09	24.5	2.5		
100	25QAM	1	1	19.20	19.20	19.20	22.5	4.5		
Channel										
Frequency (MHz)										
90	PI2 BPSK	1	1	25.20	25.22	25.03	27.0	0.0		
Channel										
Frequency (MHz)										
80	PI2 BPSK	1	1	25.20	25.25	25.06	27.0	0.0		
Channel										
Frequency (MHz)										
70	PI2 BPSK	1	1	25.13	25.32	25.19	27.0	0.0		
Channel										
Frequency (MHz)										
60	PI2 BPSK	1	1	25.19	25.26	25.08	27.0	0.0		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	25.18	25.31	25.11	27.0	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	25.20	25.24	25.10	27.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	25.10	25.29	25.04	27.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	25.18	25.30	25.08	27.0	0.0		



Part270 n78 Ant3_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		22.61		23.0	0.0	
100	PI/2 BPSK	1	137		22.52				
100	PI/2 BPSK	1	271		22.42				
100	PI/2 BPSK	135	0		21.95		22.5	0.5	
100	PI/2 BPSK	135	69		22.52		23.0	0.0	
100	PI/2 BPSK	135	138		21.86		22.5	0.5	
100	PI/2 BPSK	270	0		21.93				
100	QPSK	1	1		21.77		23.0	0.0	
100	QPSK	1	137		21.35				
100	QPSK	1	271		21.75				
100	QPSK	135	0		20.76		22.0	1.0	
100	QPSK	135	69		21.55		23.0	0.0	
100	QPSK	135	138		20.79		22.0	1.0	
100	QPSK	270	0		20.80		22.0	1.0	
100	16QAM	1	1		21.02		22.0	1.0	
100	64QAM	1	1		19.41		20.5	2.5	
100	256QAM	1	1		18.01		18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	23.0	0.0	
90	QPSK	1	1		21.54	21.41	23.0	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	1		21.45	21.40	23.0	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	1		21.51	21.52	23.0	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	23.0	0.0	
60	QPSK	1	1		21.58	21.41	23.0	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	1		21.53	21.47	23.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	1		21.45	21.39	23.0	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	23.0	0.0	
30	QPSK	1	1		21.47	21.36	23.0	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	1		21.52	21.40	23.0	0.0	

Part27Q 78 Ant3_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	PI/2 BPSK	1	1		22.31		23.0	0.0	
100	PI/2 BPSK	1	137		21.98				
100	PI/2 BPSK	1	271		22.27				
100	PI/2 BPSK	135	0		21.64		22.5	0.5	
100	PI/2 BPSK	135	69		21.93		23.0	0.0	
100	PI/2 BPSK	135	138		21.65		22.5	0.5	
100	PI/2 BPSK	270	0		21.53				
100	QPSK	1	1		21.16		23.0	0.0	
100	QPSK	1	137		20.83				
100	QPSK	1	271		21.11				
100	QPSK	135	0		20.20		22.0	1.0	
100	QPSK	135	69		20.96		23.0	0.0	
100	QPSK	135	138		20.35		22.0	1.0	
100	QPSK	270	0		20.28		22.0	1.0	
100	16QAM	1	1		20.34		20.5	2.5	
100	64QAM	1	1		18.88		18.5	4.5	
100	256QAM	1	1		17.66				
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	1		20.89	20.99	20.95	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0	
80	QPSK	1	1		21.01	21.10	20.84	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	23.0	0.0	
70	QPSK	1	1		20.93	21.11	20.99	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	23.0	0.0	
60	QPSK	1	1		20.95	21.07	20.87	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	23.0	0.0	
50	QPSK	1	1		20.93	21.13	20.98	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0	
40	QPSK	1	1		20.84	21.05	20.95	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0	
30	QPSK	1	1		20.98	21.07	21.01	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0	
20	QPSK	1	1		20.97	21.10	20.92	23.0	0.0



Part270 n78 Ant6_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		21.27		21.5	0.0	
100	PI/2 BPSK	1	137		21.26				
100	PI/2 BPSK	1	271		21.14				
100	PI/2 BPSK	135	0		20.61		21.0	0.5	
100	PI/2 BPSK	135	69		21.04		21.5	0.0	
100	PI/2 BPSK	135	138		20.61				
100	PI/2 BPSK	270	0		20.59		21.0	0.5	
100	QPSK	1	1		21.11		21.5	0.0	
100	QPSK	1	137		20.69				
100	QPSK	1	271		21.06				
100	QPSK	135	0		20.56		20.5	1.0	
100	QPSK	135	69		20.87		21.5	0.0	
100	QPSK	135	138		20.59				
100	QPSK	270	0		20.55		20.5	1.0	
100	16QAM	1	1		19.48		20.5	1.0	
100	64QAM	1	1		17.88		19.0	2.5	
100	256QAM	1	1		16.57		17.0	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		20.93	21.05	20.96	21.5	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		20.94	21.08	21.00	21.5	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		20.83	20.94	20.88	21.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		20.98	20.99	21.03	21.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		20.89	21.03	20.93	21.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.00	20.91	20.93	21.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		20.94	21.09	20.91	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		20.94	21.08	21.00	21.5	0.0

Part27Q 78 Ant6_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	PI/2 BPSK	1	1		20.32		21.5	0.0	
100	PI/2 BPSK	1	137		20.22				
100	PI/2 BPSK	1	271		20.26				
100	PI/2 BPSK	135	0		19.88		21.0	0.5	
100	PI/2 BPSK	135	69		20.25		21.5	0.0	
100	PI/2 BPSK	135	138		20.05				
100	PI/2 BPSK	270	0		19.89		21.0	0.5	
100	QPSK	1	1		19.66		21.5	0.0	
100	QPSK	1	137		19.29				
100	QPSK	1	271		19.55				
100	QPSK	135	0		19.58		20.5	1.0	
100	QPSK	135	69		19.44		21.5	0.0	
100	QPSK	135	138		18.78				
100	QPSK	270	0		18.65		20.5	1.0	
100	16QAM	1	1		18.72		20.5	1.0	
100	64QAM	1	1		17.24		19.0	2.5	
100	256QAM	1	1		16.04		17.0	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		19.34	19.59	19.42	21.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		19.35	19.62	19.51	21.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		19.39	19.60	19.47	21.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		19.36	19.82	19.45	21.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		19.39	19.50	19.54	21.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		19.34	19.62	19.53	21.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		19.35	19.54	19.44	21.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		19.37	19.63	19.58	21.5	0.0



Part270 n78 Ant7_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		22.66		23.0	0.0	
100	PI/2 BPSK	1	137		22.64				
100	PI/2 BPSK	1	271		22.62				
100	PI/2 BPSK	135	0		22.01		22.5	0.5	
100	PI/2 BPSK	135	69		22.54		23.0	0.0	
100	PI/2 BPSK	135	138		21.99		22.5	0.5	
100	PI/2 BPSK	270	0		22.00				
100	QPSK	1	1		21.66		23.0	0.0	
100	QPSK	1	137		21.23				
100	QPSK	1	271		21.59				
100	QPSK	135	0		20.64		22.0	1.0	
100	QPSK	135	69		21.43		23.0	0.0	
100	QPSK	135	138		20.64		22.0	1.0	
100	QPSK	270	0		20.65				
100	16QAM	1	1		20.91		22.0	1.0	
100	64QAM	1	1		19.29		20.5	2.5	
100	256QAM	1	1		17.96		18.5	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01	23.0	0.0	
90	QPSK	1	1		21.48	21.57	21.48	23.0	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	23.0	0.0	
80	QPSK	1	1		21.47	21.46	21.41	23.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765	23.0	0.0	
70	QPSK	1	1		21.39	21.48	21.36	23.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01	23.0	0.0	
60	QPSK	1	1		21.51	21.58	21.49	23.0	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02	23.0	0.0	
50	QPSK	1	1		21.42	21.53	21.44	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	23.0	0.0	
40	QPSK	1	1		21.41	21.62	21.34	23.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01	23.0	0.0	
30	QPSK	1	1		21.44	21.55	21.36	23.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	23.0	0.0	
20	QPSK	1	1		21.53	21.46	21.48	23.0	0.0

Part27Q 78 Ant7_FCC PC2&PC3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633334			
Frequency (MHz)						3500.01			
100	PI/2 BPSK	1	1		22.88		23.0	0.0	
100	PI/2 BPSK	1	137		22.66				
100	PI/2 BPSK	1	271		22.53				
100	PI/2 BPSK	135	0		22.06		22.5	0.5	
100	PI/2 BPSK	135	69		22.41		23.0	0.0	
100	PI/2 BPSK	135	138		21.99		22.5	0.5	
100	PI/2 BPSK	270	0		21.94				
100	QPSK	1	1		21.25		23.0	0.0	
100	QPSK	1	137		21.12				
100	QPSK	1	271		21.46				
100	QPSK	135	0		20.47		22.0	1.0	
100	QPSK	135	69		21.29		23.0	0.0	
100	QPSK	135	138		20.84		22.0	1.0	
100	QPSK	270	0		20.81				
100	16QAM	1	1		20.59		22.0	1.0	
100	64QAM	1	1		19.11		20.5	2.5	
100	256QAM	1	1		17.93		18.5	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02	23.0	0.0	
90	QPSK	1	1		21.06	21.21	21.02	23.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	23.0	0.0	
80	QPSK	1	1		21.01	21.15	20.95	23.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01	23.0	0.0	
70	QPSK	1	1		21.09	21.13	21.07	23.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02	23.0	0.0	
60	QPSK	1	1		20.92	21.05	20.93	23.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525	23.0	0.0	
50	QPSK	1	1		21.04	21.11	21.06	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0	
40	QPSK	1	1		21.02	21.04	20.96	23.0	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02	23.0	0.0	
30	QPSK	1	1		21.12	21.20	21.01	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0	
20	QPSK	1	1		20.97	21.14	21.05	23.0	0.0



n7 Ant5

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	22.53	22.50	22.43	24.0	0.0
40	22.48	22.46	22.44	23.5	0.5
40	22.38	22.51	22.47	24.0	0.0
40	22.01	22.14	22.20	23.5	0.5
40	22.51	22.55	22.58	24.0	0.0
40	22.06	22.24	22.12	23.5	0.5
40	22.04	22.11	22.16	24.0	0.0
40	22.58	22.65	22.61	23.0	1.0
40	22.37	22.52	22.52	24.0	0.0
40	22.40	22.58	22.58	23.0	1.0
40	21.57	21.58	21.69	24.0	0.0
40	22.58	22.61	22.40	23.0	1.0
40	21.47	21.61	21.55	23.0	1.0
40	21.59	21.75	21.70	23.0	1.0
40	21.56	21.76	21.50	21.5	2.5
40	20.07	20.12	19.99	19.5	4.5
40	18.13	18.25	18.13		
30	22.41	22.52	22.43	24.0	0.0
25	22.38	22.53	22.47	24.0	0.0
20	22.39	22.49	22.41	24.0	0.0
15	22.42	22.51	22.41	24.0	0.0
10	22.44	22.48	22.47	24.0	0.0
5	22.53	22.56	22.40	24.0	0.0



Reduced Power Mode for 5GNR

Part270 n78 SA Ant2 Receiver									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	17.08	17.19	17.11	18.0	0.0	
100	PI2 BPSK	1	271	17.11	17.13	17.13	18.0	0.0	
100	PI2 BPSK	135	0	17.13	17.15	17.15	18.0	0.0	
100	PI2 BPSK	135	69	17.15	17.15	17.15	18.0	0.0	
100	PI2 BPSK	270	0	17.21	17.27	17.27	18.0	0.0	
100	QPSK	1	1	3750	3750	3750	18.0	0.0	
100	QPSK	1	137	17.25	17.25	17.25	18.0	0.0	
100	QPSK	1	271	17.08	17.08	17.08	18.0	0.0	
100	QPSK	135	0	17.15	17.15	17.15	18.0	0.0	
100	QPSK	135	69	17.22	17.22	17.22	18.0	0.0	
100	QPSK	135	138	17.12	17.12	17.12	18.0	0.0	
100	QPSK	270	0	17.18	17.18	17.18	18.0	0.0	
100	16QAM	1	1	17.31	17.31	17.31	18.0	0.0	
100	64QAM	1	1	18.00	18.00	18.00	18.0	0.0	
100	256QAM	1	1	18.19	18.19	18.19	18.0	0.0	
Channel									
Frequency (MHz)				649999	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.13	17.11	17.02	18.0	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.07	17.14	17.07	18.0	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	17.04	17.09	17.11	18.0	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.07	17.04	17.17	18.0	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.07	17.03	17.08	18.0	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.12	17.13	17.09	18.0	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.11	17.07	17.05	18.0	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.01	17.06	17.12	18.0	0.0	

Part27Q 78 SA Ant2 Receiver									
BW [MHz]	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)				633000	633334	633668			
100	PI2 BPSK	1	1	3495	3500.01	3505.02			
100	PI2 BPSK	1	137	16.98	16.90	16.77	18.0	0.0	
100	PI2 BPSK	1	271	16.77	16.58	16.58	18.0	0.0	
100	PI2 BPSK	135	0	16.58	16.53	16.53	18.0	0.0	
100	PI2 BPSK	135	138	16.87	16.87	16.87	18.0	0.0	
100	PI2 BPSK	270	0	16.94	16.94	16.94	18.0	0.0	
100	QPSK	1	1	3495	3500.01	3505.02	18.0	0.0	
100	QPSK	1	137	17.11	17.11	17.11	18.0	0.0	
100	QPSK	1	271	16.96	16.96	16.96	18.0	0.0	
100	QPSK	135	0	16.88	16.88	16.88	18.0	0.0	
100	QPSK	135	69	17.17	17.17	17.17	18.0	0.0	
100	QPSK	135	138	17.01	17.01	17.01	18.0	0.0	
100	QPSK	270	0	17.15	17.15	17.15	18.0	0.0	
100	16QAM	1	1	17.13	17.13	17.13	18.0	0.0	
100	64QAM	1	1	17.14	17.14	17.14	18.0	0.0	
100	256QAM	1	1	17.13	17.13	17.13	18.0	0.0	
Channel									
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	17.03	17.16	17.08	18.0	0.0	
Channel									
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	17.04	17.11	17.01	18.0	0.0	
Channel									
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	17.01	17.02	17.13	18.0	0.0	
Channel									
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	17.21	17.15	17.11	18.0	0.0	
Channel									
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	17.12	17.11	17.19	18.0	0.0	
Channel									
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	17.06	17.06	17.03	18.0	0.0	
Channel									
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	17.03	17.01	17.09	18.0	0.0	
Channel									
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	17.21	17.11	17.05	18.0	0.0	

Part270 n78 SA Ant2 Sensor&Handheld									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				650000	650000	650000			
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137	20.41	20.35	20.47	21.5	0.0	
100	PI2 BPSK	1	271	20.47	20.38	20.38	21.5	0.0	
100	PI2 BPSK	135	0	20.38	20.38	20.38	21.5	0.0	
100	PI2 BPSK	135	69	20.38	20.38	20.38	21.5	0.0	
100	PI2 BPSK	135	138	20.37	20.37	20.37	21.5	0.0	
100	PI2 BPSK	270	0	20.34	20.34	20.34	21.5	0.0	
100	QPSK	1	1	3750	3750	3750	21.5	0.0	
100	QPSK	1	137	20.59	20.59	20.59	21.5	0.0	
100	QPSK	1	271	20.63	20.63	20.63	21.5	0.0	
100	QPSK	135	0	20.63	20.63	20.63	21.5	0.0	
100	QPSK	135	69	20.64	20.64	20.64	21.5	0.0	
100	QPSK	135	138	20.46	20.46	20.46	21.5	0.0	
100	QPSK	270	0	20.52	20.52	20.52	21.5	0.0	
100	16QAM	1	1	20.51	20.51	20.51	21.5	0.0	
100	64QAM	1	1	20.57	20.57	20.57	21.5	0.0	
100	256QAM	1	1	20.72	20.72	20.72	21.5	0.0	
Channel									
Frequency (MHz)				649999	650000	650334	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.49	20.45	20.49	21.5	0.0	
Channel									
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.50	20.58	20.49	21.5	0.0	
Channel									
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.54	20.62	20.64	21.5	0.0	
Channel									
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.55	20.58	20.49	21.5	0.0	
Channel									
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.51	20.49	20.58	21.5	0.0	
Channel									
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.53	20.59	20.57	21.5	0.0	
Channel									
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.48	20.44	20.59	21.5	0.0	
Channel									
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.51	20.61	20.50	21.5	0.0	



Part27Q 78 SA Ant2 Sensor&Handheld									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.43	20.43				
100	PI2 BPSK	1	137	20.41			21.5	0.0	
100	PI2 BPSK	1	271	20.50					
100	PI2 BPSK	135	0	20.28			21.5	0.0	
100	PI2 BPSK	135	69	20.57			21.5	0.0	
100	PI2 BPSK	135	138	20.52			21.5	0.0	
100	PI2 BPSK	270	0	20.38					
100	QPSK	1	1	20.74			21.5	0.0	
100	QPSK	1	137	20.59					
100	QPSK	1	271	20.59					
100	QPSK	135	0	20.43			21.5	0.0	
100	QPSK	135	69	20.73			21.5	0.0	
100	QPSK	135	138	20.62			21.5	0.0	
100	QPSK	270	0	20.59					
100	16QAM	1	1	20.63			21.5	0.0	
100	64QAM	1	1	20.65			21.5	0.0	
100	256QAM	1	1	20.63			21.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.54	20.58	20.50	21.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.63	20.51	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.57	20.61	20.42	21.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.46	20.45	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.48	20.61	20.48	21.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.61	20.52	20.57	21.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.62	20.49	20.43	21.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.52	20.63	20.59	21.5	0.0	

Part27Q n78 SA Ant2 Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.02	18.02	18.02			
100	PI2 BPSK	1	137	17.76			19.0	0.0	
100	PI2 BPSK	1	271	18.00					
100	PI2 BPSK	135	0	17.88			19.0	0.0	
100	PI2 BPSK	135	69	17.82			19.0	0.0	
100	PI2 BPSK	135	138	17.63			19.0	0.0	
100	PI2 BPSK	270	0	17.89					
100	QPSK	1	1	18.18			19.0	0.0	
100	QPSK	1	137	18.02					
100	QPSK	1	271	18.09					
100	QPSK	135	0	18.09			19.0	0.0	
100	QPSK	135	69	18.18			19.0	0.0	
100	QPSK	135	138	17.82			19.0	0.0	
100	QPSK	270	0	18.05			19.0	0.0	
100	16QAM	1	1	18.15			19.0	0.0	
100	64QAM	1	1	18.15			19.0	0.0	
100	256QAM	1	1	18.15			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.01	18.09	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.03	18.04	17.96	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.10	17.89	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.83	17.83	17.87	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.98	17.92	18.08	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.90	18.04	17.92	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.89	18.01	17.87	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.98	18.01	18.04	19.0	0.0	

Part27Q 78 SA Ant2 Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mediu Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.13	18.13	18.13			
100	PI2 BPSK	1	137	17.84			19.0	0.0	
100	PI2 BPSK	1	271	18.04					
100	PI2 BPSK	135	0	17.85			19.0	0.0	
100	PI2 BPSK	135	69	18.06			19.0	0.0	
100	PI2 BPSK	135	138	17.84			19.0	0.0	
100	PI2 BPSK	270	0	18.06					
100	QPSK	1	1	18.26			19.0	0.0	
100	QPSK	1	137	18.09					
100	QPSK	1	271	18.14					
100	QPSK	135	0	18.06			19.0	0.0	
100	QPSK	135	69	18.26			19.0	0.0	
100	QPSK	135	138	18.01			19.0	0.0	
100	QPSK	270	0	18.10			19.0	0.0	
100	16QAM	1	1	18.27			19.0	0.0	
100	64QAM	1	1	18.19			19.0	0.0	
100	256QAM	1	1	18.08			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.10	18.18	18.06	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.11	18.24	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.27	18.09	18.10	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.05	18.05	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.08	18.16	18.28	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.19	18.12	18.19	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.09	18.07	18.28	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.08	18.09	18.15	19.0	0.0	



n7 SA Ant5 Sensor&Hotspot&Handheld								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				504000	507000	510000		
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	17.82	17.93	17.87	20.0	0.0
40	PI/2 BPSK	1	108	17.95	18.14	17.98		
40	PI/2 BPSK	1	214	18.15	18.20	18.05		
40	PI/2 BPSK	108	0	17.97	18.02	17.90	20.0	0.0
40	PI/2 BPSK	108	54	18.02	18.10	17.95	20.0	0.0
40	PI/2 BPSK	108	108	18.03	18.11	17.92	20.0	0.0
40	PI/2 BPSK	216	0	17.96	18.09	17.89		
40	QPSK	1	1	18.18	18.35	18.19		
40	QPSK	1	108	17.59	17.68	17.62	20.0	0.0
40	QPSK	1	214	17.71	17.81	17.66		
40	QPSK	108	0	17.57	17.67	17.53	19.5	0.0
40	QPSK	108	54	18.29	18.33	18.26	20.0	0.0
40	QPSK	108	108	17.59	17.63	17.52	19.5	0.0
40	QPSK	216	0	18.11	18.31	18.20		
40	16QAM	1	1	18.12	18.18	18.00	20.0	0.0
40	64QAM	1	1	17.81	17.88	17.78	20.0	0.0
40	256QAM	1	1	17.53	17.54	17.58	19.5	0.5
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	QPSK	1	1	17.90	18.09	17.95	20.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	17.97	18.18	17.99	20.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	17.88	18.03	17.98	20.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	17.97	18.03	17.96	20.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.88	18.03	17.89	20.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	17.99	18.06	17.87	20.0	0.0



n2 NSA Ant0 Sensor&Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	10.80	10.88	10.75			
20	PI2 BPSK	1	53	11.01	11.02	10.93	13.0	0.0	
20	PI2 BPSK	1	104	10.91	10.96	10.85	13.0	0.0	
20	PI2 BPSK	50	0	10.87	10.96	10.85	13.0	0.0	
20	PI2 BPSK	50	28	10.89	10.97	10.93	13.0	0.0	
20	PI2 BPSK	50	58	10.85	10.99	10.91	13.0	0.0	
20	PI2 BPSK	100	0	10.93	10.96	10.94			
20	QPSK	1	1	11.31	11.32	11.20			
20	QPSK	1	53	11.11	11.09	11.02	13.0	0.0	
20	QPSK	1	104	11.06	11.09	10.96			
20	QPSK	50	0	10.98	11.01	10.87	13.0	0.0	
20	QPSK	50	28	11.00	11.29	11.00	13.0	0.0	
20	QPSK	50	58	10.89	10.96	10.88			
20	QPSK	100	0	10.90	11.27	10.88	13.0	0.0	
20	16QAM	1	1	11.10	11.17	11.16	13.0	0.0	
20	16QAM	1	1	11.15	11.16	11.05	13.0	0.0	
20	256QAM	1	1	11.28	11.30	11.19	13.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	11.13	11.23	11.05	13.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	11.14	11.22	11.09	13.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	11.17	11.19	11.02	13.0	0.0	

n5 NSA Ant0 Sensor&Hotspot&Handheld									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166500	167000	167500			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	20.16	20.29	20.20			
20	PI2 BPSK	1	53	20.15	20.16	20.14	22.0	0.0	
20	PI2 BPSK	1	104	20.20	20.23	20.18			
20	PI2 BPSK	50	0	20.25	20.32	20.23	22.0	0.0	
20	PI2 BPSK	50	28	20.19	20.24	20.22	22.0	0.0	
20	PI2 BPSK	50	58	20.09	20.16	20.15	22.0	0.0	
20	PI2 BPSK	100	0	20.14	20.28	20.17			
20	QPSK	1	1	20.43	20.45	20.31			
20	QPSK	1	53	20.28	20.27	20.19	22.0	0.0	
20	QPSK	1	104	20.15	20.18	20.12			
20	QPSK	50	0	20.27	20.28	20.25	22.0	0.0	
20	QPSK	50	28	20.28	20.42	20.41	22.0	0.0	
20	QPSK	50	58	19.98	20.15	20.14	22.0	0.0	
20	QPSK	100	0	20.35	20.35	20.35			
20	16QAM	1	1	20.26	20.31	20.24	22.0	0.0	
20	16QAM	1	1	19.69	19.82	19.68	21.5	0.5	
20	256QAM	1	1	17.54	17.84	17.52	19.5	2.5	
Channel				165300	167000	168500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.87	19.79	19.64	22.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	19.79	19.94	19.69	22.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.76	19.83	19.87	22.0	0.0	

n2 NSA Ant0 Handheld									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	16.06	16.24	16.19			
20	PI2 BPSK	1	53	16.31	16.34	16.27	17.5	0.0	
20	PI2 BPSK	1	104	16.18	16.37	16.25			
20	PI2 BPSK	50	0	16.27	16.32	16.23	17.5	0.0	
20	PI2 BPSK	50	28	16.18	16.30	16.14	17.5	0.0	
20	PI2 BPSK	50	58	16.13	16.31	16.21	17.5	0.0	
20	PI2 BPSK	100	0	16.18	16.29	16.20			
20	QPSK	1	1	16.32	16.41	16.29			
20	QPSK	1	53	16.27	16.35	16.16	17.5	0.0	
20	QPSK	1	104	16.23	16.37	16.22			
20	QPSK	50	0	16.23	16.31	16.23	17.5	0.0	
20	QPSK	50	28	16.14	16.33	16.28	17.5	0.0	
20	QPSK	50	58	16.22	16.31	16.11			
20	QPSK	100	0	16.14	16.31	16.23	17.5	0.0	
20	16QAM	1	1	16.00	16.08	15.93	17.5	0.0	
20	16QAM	1	1	15.68	15.81	15.72	17.5	0.0	
20	256QAM	1	1	16.08	16.11	16.04	17.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	16.19	16.31	16.15	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	16.15	16.32	16.00	17.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	16.20	16.27	16.06	17.5	0.0	



n7 NSA Ant1 Hotspot

Channel	504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	2520	2535	2550		
40 P1/2 BPSK	1	1	16.80	16.85	16.86
40 P1/2 BPSK	1	108	16.59	16.73	16.98
40 P1/2 BPSK	1	214	16.87	16.80	16.66
40 P1/2 BPSK	108	0	16.55	16.82	16.52
40 P1/2 BPSK	108	54	16.84	16.49	16.39
40 P1/2 BPSK	108	108	16.51	16.69	16.93
40 P1/2 BPSK	216	0	16.52	16.68	16.50
40 QPSK	1	1	16.71	16.88	16.86
40 QPSK	1	108	16.79	16.81	16.89
40 QPSK	1	214	16.55	16.72	16.85
40 QPSK	108	0	16.52	16.84	16.50
40 QPSK	108	54	16.59	16.87	16.57
40 QPSK	108	108	16.84	16.73	16.55
40 QPSK	216	0	16.81	16.88	16.54
40 16QAM	1	1	16.52	16.47	16.41
40 64QAM	1	1	16.05	16.18	16.07
40 256QAM	1	1	16.75	16.80	16.61

n66 NSA Ant1 Hotspot

Channel	346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	1730	1745	1760		
40 P1/2 BPSK	1	1	17.01	17.06	17.02
40 P1/2 BPSK	1	108	17.00	17.07	17.00
40 P1/2 BPSK	1	214	16.72	16.85	16.75
40 P1/2 BPSK	108	0	16.84	16.96	16.76
40 P1/2 BPSK	108	54	16.78	16.82	16.71
40 P1/2 BPSK	108	108	16.82	16.89	16.79
40 P1/2 BPSK	216	0	16.74	16.92	16.86
40 QPSK	1	1	17.20	17.23	17.10
40 QPSK	1	108	16.77	16.92	16.84
40 QPSK	1	214	16.70	16.92	16.89
40 QPSK	108	0	16.68	16.80	16.66
40 QPSK	108	54	17.18	17.21	17.14
40 QPSK	108	108	16.68	16.80	16.71
40 QPSK	216	0	17.05	17.16	16.98
40 16QAM	1	1	16.60	16.64	16.52
40 64QAM	1	1	16.28	16.46	16.28
40 256QAM	1	1	16.50	16.65	16.60

n7 NSA Ant1 Sensor&Handheld

Channel	504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	2520	2535	2550		
40 P1/2 BPSK	1	1	17.07	17.23	17.16
40 P1/2 BPSK	1	108	17.42	17.43	17.30
40 P1/2 BPSK	1	214	17.36	17.37	17.23
40 P1/2 BPSK	108	0	17.15	17.26	17.10
40 P1/2 BPSK	108	54	17.12	17.19	17.16
40 P1/2 BPSK	108	108	17.18	17.36	17.30
40 P1/2 BPSK	216	0	17.22	17.27	17.23
40 QPSK	1	1	17.45	17.48	17.42
40 QPSK	1	108	17.29	17.46	17.39
40 QPSK	1	214	17.27	17.41	17.31
40 QPSK	108	0	17.19	17.25	17.23
40 QPSK	108	54	17.30	17.46	17.45
40 QPSK	108	108	17.14	17.28	17.24
40 QPSK	216	0	17.30	17.43	17.38
40 16QAM	1	1	17.18	17.18	17.12
40 64QAM	1	1	16.80	16.89	16.82
40 256QAM	1	1	17.32	17.35	17.19



n66 NSA Ant1 Handheld						
Channel		346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
40	Frequency (MHz)	1730	1745	1760		
40	PI2 BPSK	1	1	22.06	22.27	22.08
40	PI2 BPSK	1	108	22.08	22.15	22.08
40	PI2 BPSK	1	214	21.82	21.94	21.90
40	PI2 BPSK	108	0	21.80	21.99	21.82
40	PI2 BPSK	108	54	21.75	21.94	21.74
40	PI2 BPSK	108	108	21.75	21.96	21.80
40	PI2 BPSK	216	0	21.82	21.97	21.76
40	QPSK	1	1	21.85	21.94	21.88
40	QPSK	1	108	21.82	21.75	21.68
40	QPSK	1	214	21.81	21.81	21.86
40	QPSK	108	0	21.80	21.91	21.85
40	QPSK	108	54	21.82	21.92	21.86
40	QPSK	108	108	21.78	21.87	21.79
40	QPSK	216	0	21.88	21.88	21.73
40	16QAM	1	1	20.98	21.11	21.08
40	64QAM	1	1	19.29	19.41	19.34
40	256QAM	1	1	17.75	17.86	17.66
30	Channel	345000	349000			
30	Frequency (MHz)	1725	1745	1765		
30	QPSK	1	1	21.82	21.79	21.68
20	Channel	344000	349000	354000		
20	Frequency (MHz)	1720	1745	1770		
20	QPSK	1	1	21.87	21.88	21.78
15	Channel	343000	349000	354000		
15	Frequency (MHz)	1717.5	1745	1772.5		
15	QPSK	1	1	21.84	21.78	21.70
10	Channel	342000	349000	355000		
10	Frequency (MHz)	1715	1745	1775		
10	QPSK	1	1	21.81	21.81	21.73
5	Channel	341000	349000	355000		
5	Frequency (MHz)	1712.5	1745	1777.5		
5	QPSK	1	1	21.70	21.84	21.80

n7 NSA Ant1 Receiver						
Channel		504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
40	Frequency (MHz)	2520	2535	2550		
40	PI2 BPSK	1	1	18.02	18.14	17.93
40	PI2 BPSK	1	108	18.20	18.38	18.24
40	PI2 BPSK	1	214	18.20	18.37	18.21
40	PI2 BPSK	108	0	18.12	18.26	18.13
40	PI2 BPSK	108	54	17.93	18.17	18.00
40	PI2 BPSK	108	108	18.14	18.33	18.22
40	PI2 BPSK	216	0	18.07	18.27	18.15
40	QPSK	1	1	18.15	18.41	18.23
40	QPSK	1	108	18.18	18.29	18.05
40	QPSK	1	214	18.05	18.29	18.09
40	QPSK	108	0	17.99	18.18	17.99
40	QPSK	108	54	18.05	18.29	18.09
40	QPSK	108	108	18.18	18.28	18.15
40	QPSK	216	0	18.15	18.24	18.11
40	16QAM	1	1	18.38	18.28	18.39
40	64QAM	1	1	17.98	18.23	18.03
40	256QAM	1	1	18.04	18.22	17.99
30	Channel	503000	507000	511000		
30	Frequency (MHz)	2515	2535	2555		
30	QPSK	1	1	18.37	18.35	18.45
25	Channel	502000	507000	511000		
25	Frequency (MHz)	2512.5	2535	2557.5		
25	QPSK	1	1	18.15	18.19	18.27
20	Channel	501000	507000	512000		
20	Frequency (MHz)	2510	2535	2560		
20	PI2 BPSK	1	1	18.22	18.27	18.35
15	Channel	500000	507000	513000		
15	Frequency (MHz)	2507.5	2535	2562.5		
15	QPSK	1	1	18.14	18.15	18.36
10	Channel	501000	507000	513000		
10	Frequency (MHz)	2505	2535	2565		
10	QPSK	1	1	18.14	18.21	18.28
5	Channel	500000	507000	513000		
5	Frequency (MHz)	2502.5	2535	2567.5		
5	QPSK	1	1	18.17	18.28	18.29

n66 NSA Ant1 Receiver						
Channel		346000	349000	352000	Tune-up limit (dBm)	MPR (dB)
40	Frequency (MHz)	1730	1745	1760		
40	PI2 BPSK	1	1	18.27	18.48	18.24
40	PI2 BPSK	1	108	18.27	18.49	18.37
40	PI2 BPSK	1	214	18.30	18.43	18.26
40	PI2 BPSK	108	0	18.27	18.46	18.35
40	PI2 BPSK	108	54	18.25	18.41	18.16
40	PI2 BPSK	108	108	18.19	18.44	18.27
40	PI2 BPSK	216	0	18.32	18.46	18.30
40	QPSK	1	1	18.31	18.47	18.33
40	QPSK	1	108	18.08	18.33	18.23
40	QPSK	1	214	18.15	18.26	18.12
40	QPSK	108	0	18.16	18.35	18.11
40	QPSK	108	54	18.18	18.39	18.22
40	QPSK	108	108	18.11	18.34	18.20
40	QPSK	216	0	18.11	18.33	18.25
40	16QAM	1	1	18.24	18.33	18.18
40	64QAM	1	1	18.15	18.29	18.13
40	256QAM	1	1	17.62	17.79	17.70
30	Channel	345000	349000	353000		
30	Frequency (MHz)	1725	1745	1765		
30	QPSK	1	1	18.17	18.25	18.15
20	Channel	344000	349000	354000		
20	Frequency (MHz)	1720	1745	1770		
20	QPSK	1	1	17.95	18.01	17.94
15	Channel	343000	349000	354000		
15	Frequency (MHz)	1717.5	1745	1772.5		
15	QPSK	1	1	17.88	18.03	17.98
10	Channel	342000	349000	355000		
10	Frequency (MHz)	1715	1745	1775		
10	QPSK	1	1	17.84	17.80	17.81
5	Channel	341000	349000	355000		
5	Frequency (MHz)	1712.5	1745	1777.5		
5	QPSK	1	1	18.03	18.01	17.95



n7 NSA Ant1 Sensor						
Channel	50000	50700	51000	Tune-up limit (dBm)	MPR	
40	PV2 BPSK	1	1	17.07	17.23	17.16
40	PV2 BPSK	1	108	17.42	17.43	17.30
40	PV2 BPSK	1	214	17.36	17.37	17.23
40	PV2 BPSK	108	0	17.15	17.26	17.10
40	PV2 BPSK	108	54	17.12	17.19	17.16
40	PV2 BPSK	108	108	17.18	17.36	17.30
40	PV2 BPSK	216	0	17.22	17.27	17.23
40	QPSK	1	1	17.45	17.48	17.42
40	QPSK	1	108	17.29	17.46	17.39
40	QPSK	1	214	17.27	17.41	17.31
40	QPSK	108	0	17.19	17.25	17.23
40	QPSK	108	54	17.30	17.46	17.45
40	QPSK	108	108	17.14	17.28	17.24
40	QPSK	216	0	17.30	17.43	17.38
40	16QAM	1	1	17.18	17.18	17.12
40	64QAM	1	1	16.80	16.89	16.82
40	256QAM	1	1	17.32	17.35	17.19
Channel	50000	50700	51000	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	17.27	17.29	17.25
Channel	50500	50700	51500	Tune-up limit (dBm)	MPR	
25	QPSK	1	1	17.38	17.43	17.21
Channel	50000	50700	51000	Tune-up limit (dBm)	MPR	
20	PV2 BPSK	1	1	17.24	17.27	17.23
Channel	50100	50700	51000	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	17.33	17.43	17.26
Channel	50100	50700	51300	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	17.32	17.30	17.35
Channel	50000	50700	51300	Tune-up limit (dBm)	MPR	
5	QPSK	1	1	17.38	17.38	17.30

n66 NSA Ant1 Sensor						
Channel	346000	349000	350000	Tune-up limit (dBm)	MPR	
40	PV2 BPSK	1	1	16.86	16.12	16.84
40	PV2 BPSK	1	108	17.80	16.02	17.96
40	PV2 BPSK	1	214	17.70	17.86	17.79
40	PV2 BPSK	108	0	17.72	17.89	17.71
40	PV2 BPSK	108	54	17.71	17.77	17.56
40	PV2 BPSK	108	108	17.81	17.65	17.81
40	PV2 BPSK	216	0	17.75	17.88	17.82
40	QPSK	1	1	17.77	17.84	17.87
40	QPSK	1	108	17.74	17.83	17.71
40	QPSK	1	214	17.62	17.63	17.65
40	QPSK	108	0	17.75	17.79	17.73
40	QPSK	108	54	17.76	17.92	17.62
40	QPSK	108	108	17.89	17.81	17.86
40	QPSK	216	0	17.69	17.87	17.70
40	16QAM	1	1	17.41	17.63	17.48
40	64QAM	1	1	17.28	17.41	17.30
40	256QAM	1	1	17.44	17.59	17.54
Channel	346000	349000	350000	Tune-up limit (dBm)	MPR	
30	QPSK	1	1	17.66	17.79	17.75
Channel	344000	349000	354000	Tune-up limit (dBm)	MPR	
20	QPSK	1	1	17.81	17.80	17.82
Channel	343500	348000	354500	Tune-up limit (dBm)	MPR	
15	QPSK	1	1	17.69	17.77	17.83
Channel	343000	349000	350000	Tune-up limit (dBm)	MPR	
10	QPSK	1	1	17.70	17.79	17.68
Channel	342500	349000	350500	Tune-up limit (dBm)	MPR	
5	QPSK	1	1	17.81	17.77	17.66



n7 NSA Ant5 Hotspot

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
40	17.70	17.81	17.75	20.0	0.0
40	17.83	18.02	17.86	20.0	0.0
40	18.03	18.08	17.93	20.0	0.0
40	17.85	17.90	17.78	20.0	0.0
40	17.90	17.98	17.83	20.0	0.0
40	17.91	17.99	17.80	20.0	0.0
40	17.84	17.97	17.77	20.0	0.0
40	18.06	18.23	18.07	20.0	0.0
40	17.47	17.56	17.50	19.0	1.0
40	17.59	17.69	17.56	20.0	0.0
40	17.25	17.35	17.18	20.0	0.0
40	18.17	18.21	18.14	19.0	1.0
40	17.37	17.51	17.30	20.0	0.0
40	17.99	18.19	18.08	20.0	0.0
40	18.00	18.06	17.88	20.0	0.0
40	17.69	17.76	17.66	20.0	0.0
40	17.21	17.42	17.26	19.5	0.5
30	17.90	18.09	17.95	20.0	0.0
25	17.97	18.18	17.99	20.0	0.0
20	17.88	18.03	17.98	20.0	0.0
15	17.97	18.03	17.96	20.0	0.0
10	17.88	18.03	17.89	20.0	0.0
5	17.99	18.06	17.87	20.0	0.0



Par270 n77 NSA Ant2_FCC Sensor&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.93	16.23	16.08		
100	PI2 BPSK	1	137	15.94	16.12	15.93	18.0	0.0
100	PI2 BPSK	1	271	15.87	15.90	15.89		
100	PI2 BPSK	135	0	15.89	15.94	15.96	18.0	0.0
100	PI2 BPSK	135	69	15.94	16.02	16.00	18.0	0.0
100	PI2 BPSK	135	138	15.88	16.06	15.78	18.0	0.0
100	PI2 BPSK	270	0	15.89	15.97	15.93		
100	QPSK	1	1	16.06	16.24	16.17		
100	QPSK	1	137	16.00	16.20	16.05	18.0	0.0
100	QPSK	1	271	16.01	16.08	16.05		
100	QPSK	135	0	15.97	16.12	16.01	18.0	0.0
100	QPSK	135	69	16.11	16.14	16.04	18.0	0.0
100	QPSK	135	138	15.98	16.07	15.95	18.0	0.0
100	QPSK	270	0	15.97	16.01	15.98		
100	16QAM	1	1	16.07	16.13	16.06	18.0	0.0
100	64QAM	1	1	15.97	16.09	15.99	18.0	0.0
100	256QAM	1	1	15.98	16.03	15.71	18.0	0.0
Channel								
Frequency (MHz)				3745.02	3840	3935.01	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.91	16.12	16.04	18.0	0.0
Channel								
Frequency (MHz)				3749.01	3840	3935.02	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.93	15.95	16.06	18.0	0.0
Channel								
Frequency (MHz)				649000	650000	650000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.97	16.07	15.87	18.0	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.81	15.93	16.04	18.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3935.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.96	16.07	16.07	18.0	0.0
Channel								
Frequency (MHz)				648000	650000	650000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.75	16.08	15.91	18.0	0.0
Channel								
Frequency (MHz)				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.34	16.04	15.94	18.0	0.0
Channel								
Frequency (MHz)				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.91	15.96	16.04	18.0	0.0

Part27Q n77 NSA Ant2_FCC Sensor&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)					3500.01			
100	PI2 BPSK	1	1		16.07			
100	PI2 BPSK	1	137		15.72		18.0	0.0
100	PI2 BPSK	1	271		15.83			
100	PI2 BPSK	135	0		15.93		18.0	0.0
100	PI2 BPSK	135	69		15.91		18.0	0.0
100	PI2 BPSK	135	138		15.86		18.0	0.0
100	PI2 BPSK	270	0		15.82			
100	QPSK	1	1		16.26			
100	QPSK	1	137		15.99		18.0	0.0
100	QPSK	1	271		16.01			
100	QPSK	135	0		16.10		18.0	0.0
100	QPSK	135	69		16.12		18.0	0.0
100	QPSK	135	138		16.00		18.0	0.0
100	QPSK	270	0		16.13			
100	16QAM	1	1		16.07		18.0	0.0
100	64QAM	1	1		16.15		18.0	0.0
100	256QAM	1	1		15.92		18.0	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.01	16.10	16.01	18.0	0.0
Channel								
Frequency (MHz)				630988	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.97	16.11	16.10	18.0	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.00	16.15	16.07	18.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.02	15.98	16.07	18.0	0.0
Channel								
Frequency (MHz)				3489	3500.01	3520.02	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.05	16.11	16.10	18.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.14	15.95	15.95	18.0	0.0
Channel								
Frequency (MHz)				631000	633334	636668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.06	16.11	15.99	18.0	0.0
Channel								
Frequency (MHz)				3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.99	16.15	16.10	18.0	0.0

Part27O n78 NSA Ant2_FCC Sensor&Handheld

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1		16.07			
100	PI2 BPSK	1	137		15.74		17.5	0.0
100	PI2 BPSK	1	271		15.71			
100	PI2 BPSK	135	0		15.83		17.5	0.0
100	PI2 BPSK	135	69		15.83		17.5	0.0
100	PI2 BPSK	135	138		15.81		17.5	0.0
100	PI2 BPSK	270	0		15.51			
100	QPSK	1	1		15.91			
100	QPSK	1	137		15.61		17.5	0.0
100	QPSK	1	271		15.74			
100	QPSK	135	0		15.66		17.5	0.0
100	QPSK	135	69		15.83		17.5	0.0
100	QPSK	135	138		15.80		17.5	0.0
100	QPSK	270	0		15.95			
100	16QAM	1	1		15.83		17.5	0.0
100	64QAM	1	1		15.77		17.5	0.0
100	256QAM	1	1		15.52		17.5	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	15.68	15.82	15.66	17.5	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	15.69	15.80	15.66	17.5	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	15.74	15.81	15.51	17.5	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	15.68	15.74	15.77	17.5	0.0
Channel								
Frequency (MHz)				3730.02	3750	3770.01	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	15.69	15.75	15.71	17.5	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	15.68	15.71	15.72	17.5	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	15.70	15.70	15.40	17.5	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	15.78	15.76	15.73	17.5	0.0



Part27Q 78 NSA Ant2_FCC Sensor&Handheld									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		15.77				
100	PI2 BPSK	1	271		15.64		17.5	0.0	
100	PI2 BPSK	1	271		15.85				
100	PI2 BPSK	135	0		15.75		17.5	0.0	
100	PI2 BPSK	135	69		15.69				
100	PI2 BPSK	135	138		15.77		17.5	0.0	
100	PI2 BPSK	270	0		15.66				
100	QPSK	1	1		16.13				
100	QPSK	1	137		15.80		17.5	0.0	
100	QPSK	1	271		15.78				
100	QPSK	135	0		15.91		17.5	0.0	
100	QPSK	135	69		15.94				
100	QPSK	135	138		15.78		17.5	0.0	
100	QPSK	270	0		16.04				
100	16QAM	1	1		15.87		17.5	0.0	
100	64QAM	1	1		15.93				
100	256QAM	1	1		15.54		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	1	630688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3498.02	3500.01	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3485.01	3500.01	3515.01			
Channel									
Frequency (MHz)									
50	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3480	3500.01	3520.02			
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3485.01	3500.01	3535.02			
Channel									
Frequency (MHz)									
30	QPSK	1	1	630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3475.02	3500.01	3525			
Channel									
Frequency (MHz)									
20	QPSK	1	1	631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3500.01	3540			

Part27Q n77 NSA Ant2 Receiver									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		13.54				
100	PI2 BPSK	1	137		13.24		15.0	0.0	
100	PI2 BPSK	1	271		13.27				
100	PI2 BPSK	135	0		13.44		15.0	0.0	
100	PI2 BPSK	135	69		13.43				
100	PI2 BPSK	135	138		13.20		15.0	0.0	
100	PI2 BPSK	270	0		13.26				
100	QPSK	1	1		13.07				
100	QPSK	1	137		13.43		15.0	0.0	
100	QPSK	1	271		13.42				
100	QPSK	135	0		13.56		15.0	0.0	
100	QPSK	135	69		13.60				
100	QPSK	135	138		13.34		15.0	0.0	
100	QPSK	270	0		13.55				
100	16QAM	1	1		13.55		15.0	0.0	
100	64QAM	1	1		13.49				
100	256QAM	1	1		13.29		15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3495	3500.01	3505.02			
Channel									
Frequency (MHz)									
80	QPSK	1	1	630688	633334	634000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3498.02	3500.01	3510			
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3485.01	3500.01	3515.01			
Channel									
Frequency (MHz)									
50	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3480	3500.01	3520.02			
Channel									
Frequency (MHz)									
40	QPSK	1	1	631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3485.01	3500.01	3535.02			
Channel									
Frequency (MHz)									
30	QPSK	1	1	630688	633334	636000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3475.02	3500.01	3525			
Channel									
Frequency (MHz)									
20	QPSK	1	1	631000	633334	636668	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3460.02	3500.01	3540			

Part27O n77 NSA Ant2 Receiver									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3700	3840	3900		
100	PI2 BPSK	1	137		13.44	13.52	13.59		
100	PI2 BPSK	1	271		13.17	13.18	13.21	18.0	0.0
100	PI2 BPSK	1	271		13.10	13.25	13.24		
100	PI2 BPSK	135	0		13.37	13.30	13.31	18.0	0.0
100	PI2 BPSK	135	69		13.41	13.38	13.26	18.0	0.0
100	PI2 BPSK	135	138		13.19	13.06	13.16	18.0	0.0
100	PI2 BPSK	270	0		13.25	13.20	13.16		
100	QPSK	1	1		13.64	13.73	13.58		
100	QPSK	1	137		13.30	13.41	13.26	18.0	0.0
100	QPSK	1	271		13.33	13.35	13.39		
100	QPSK	135	0		13.44	13.44	13.50	18.0	0.0
100	QPSK	135	69		13.59	13.71	13.56	18.0	0.0
100	QPSK	135	138		13.19	13.28	13.27	18.0	0.0
100	QPSK	270	0		13.45	13.54	13.53		
100	16QAM	1	1		13.45	13.48	13.48	18.0	0.0
100	64QAM	1	1		13.34	13.34	13.32	18.0	0.0
100	256QAM	1	1		13.12	13.26	13.20	18.0	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
70	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
60	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
50	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
40	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
30	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	3745.02	3840	3905.01			
Channel									
Frequency (MHz)									
20	QPSK	1	1	640000	650000	660000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	3745.02	3840	3905.01			



Part270 n78 NSA Ant2 Receiver

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. Freq. #REF!	Middle Ch. Freq. #REF!	High Ch. Freq. #REF!			
Channel				#REF!	#REF!	#REF!			
Frequency (MHz)									
100	PI2 BPSK	1	1		13.24				
100	PI2 BPSK	1	137		13.09		15.0	0.0	
100	PI2 BPSK	1	271		13.17				
100	PI2 BPSK	135	0		13.16		15.0	0.0	
100	PI2 BPSK	135	69		13.01		15.0	0.0	
100	PI2 BPSK	135	138		13.06		15.0	0.0	
100	PI2 BPSK	270	0		13.05				
100	QPSK	1	1		13.49				
100	QPSK	1	137		13.21		15.0	0.0	
100	QPSK	1	271		13.40				
100	QPSK	135	0		13.33		15.0	0.0	
100	QPSK	135	69		13.18		15.0	0.0	
100	QPSK	135	138		13.28		15.0	0.0	
100	QPSK	270	0		13.21				
100	16QAM	1	1		13.30		15.0	0.0	
100	64QAM	1	1		13.30		15.0	0.0	
100	256QAM	1	1		13.27		15.0	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		13.41	13.38	13.53	15.0	0.0
Channel				648934	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3742.91	3750	3762.02			
80	QPSK	1	1		13.36	13.27	13.64	15.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		13.23	13.23	13.63	15.0	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		13.26	13.26	13.47	15.0	0.0
Channel				648334	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.91	3750	3775.02			
50	QPSK	1	1		13.39	13.39	13.24	15.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		13.29	13.35	13.16	15.0	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		13.25	13.34	13.09	15.0	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.91	3750	3790.02			
20	QPSK	1	1		13.22	13.29	13.20	15.0	0.0



Part27Q 78 NSA Ant2 Receiver

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.33				
100	PI2 BPSK	1	137	13.19			15.0	0.0
100	PI2 BPSK	1	271	13.10				
100	PI2 BPSK	135	0	13.43			15.0	0.0
100	PI2 BPSK	135	69	13.29			15.0	0.0
100	PI2 BPSK	135	138	13.17			15.0	0.0
100	PI2 BPSK	270	0	13.26				
100	QPSK	1	1	13.62				
100	QPSK	1	137	13.42			15.0	0.0
100	QPSK	1	271	13.43				
100	QPSK	135	0	13.40			15.0	0.0
100	QPSK	135	69	13.58			15.0	0.0
100	QPSK	135	138	13.32			15.0	0.0
100	QPSK	270	0	13.56				
100	16QAM	1	1	13.55			15.0	0.0
100	64QAM	1	1	13.36			15.0	0.0
100	256QAM	1	1	13.10			15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63368	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.48	13.27	13.25	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.42	13.40	13.06	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.40	13.25	13.23	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.43	13.33	13.25	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	63100	63334	63568	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.25	13.35	13.24	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.32	13.32	13.12	15.0	0.0

Par27Q n77 NSA Ant2 Hotspot

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.32	15.60	15.53		
100	PI2 BPSK	1	137	15.29	15.51	15.23	16.5	0.0
100	PI2 BPSK	1	271	15.31	15.34	15.23		
100	PI2 BPSK	135	0	15.29	15.35	15.36	16.5	0.0
100	PI2 BPSK	135	69	15.32	15.44	15.40	16.5	0.0
100	PI2 BPSK	135	138	14.98	15.41	15.24	16.5	0.0
100	PI2 BPSK	270	0	15.06	15.34	15.26		
100	QPSK	1	1	15.50	15.65	15.52		
100	QPSK	1	137	15.38	15.61	15.48	16.5	0.0
100	QPSK	1	271	15.45	15.44	15.37		
100	QPSK	135	0	15.28	15.43	15.40	16.5	0.0
100	QPSK	135	69	15.47	15.48	15.37	16.5	0.0
100	QPSK	135	138	15.28	15.41	15.41	16.5	0.0
100	QPSK	270	0	15.27	15.44	15.31		
100	16QAM	1	1	15.39	15.53	15.53	16.5	0.0
100	64QAM	1	1	15.29	15.54	15.45	16.5	0.0
100	256QAM	1	1	15.04	15.28	15.06	16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	64000	65000	66000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.08	15.03	15.34	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.35	15.71	15.46	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	64000	65000	66000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.05	15.40	15.31	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.46	15.55	15.47	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.22	15.37	15.27	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.35	15.57	15.49	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64800	65900	66900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.08	15.59	15.47	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64800	65900	66900	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.22	15.37	15.27	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3840	3990.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.47	15.50	15.51	16.5	0.0

Part27Q n77 NSA Ant2 Hotspot

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.46				
100	PI2 BPSK	1	137	15.19			16.5	0.0
100	PI2 BPSK	1	271	15.19				
100	PI2 BPSK	135	0	15.29			16.5	0.0
100	PI2 BPSK	135	69	15.35			16.5	0.0
100	PI2 BPSK	135	138	15.18			16.5	0.0
100	PI2 BPSK	270	0	15.14				
100	QPSK	1	1	15.73				
100	QPSK	1	137	15.56			16.5	0.0
100	QPSK	1	271	15.48				
100	QPSK	135	0	15.44			16.5	0.0
100	QPSK	135	69	15.46			16.5	0.0
100	QPSK	135	138	15.43			16.5	0.0
100	QPSK	270	0	15.00				
100	16QAM	1	1	15.38			16.5	0.0
100	64QAM	1	1	15.57			16.5	0.0
100	256QAM	1	1	14.93			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63300	63368	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.32	15.56	15.42	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.40	15.49	15.39	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	63234	63334	63434	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.22	15.33	15.26	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.28	15.32	15.29	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.24	15.39	15.24	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	63166	63354	63500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.15	15.20	15.18	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.25	15.28	15.23	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.02	15.15	15.19	16.5	0.0



Part270 n78 NSA Ant2 Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	15.53					
100	PI2 BPSK	1	137	15.65			16.5	0.0	
100	PI2 BPSK	1	271	15.65					
100	PI2 BPSK	135	0	15.60			16.5	0.0	
100	PI2 BPSK	135	69	15.65			16.5	0.0	
100	PI2 BPSK	135	138	15.43			16.5	0.0	
100	PI2 BPSK	270	0	15.32					
100	QPSK	1	1	15.87					
100	QPSK	1	137	15.77			16.5	0.0	
100	QPSK	1	271	15.70					
100	QPSK	135	0	15.54			16.5	0.0	
100	QPSK	135	69	15.76			16.5	0.0	
100	QPSK	135	138	15.55			16.5	0.0	
100	QPSK	270	0	15.35					
100	16QAM	1	1	15.79			16.5	0.0	
100	64QAM	1	1	15.59			16.5	0.0	
100	256QAM	1	1	15.47			16.5	0.0	
Channel				64960	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.13	15.00	15.05	16.5	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.24	15.19	15.21	16.5	0.0	
Channel				64800	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.19	15.15	15.00	16.5	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.22	15.15	15.16	16.5	0.0	
Channel				64834	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.21	15.30	15.11	16.5	0.0	
Channel				64800	65000	65000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.07	15.25	15.19	16.5	0.0	
Channel				64768	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	15.42	15.24	15.20	16.5	0.0	
Channel				64734	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	15.26	15.24	15.28	16.5	0.0	

Part27Q 78 NSA Ant2 Hotspot									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				630000	63334	63668			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	15.29					
100	PI2 BPSK	1	137	15.05			16.5	0.0	
100	PI2 BPSK	1	271	15.07					
100	PI2 BPSK	135	0	15.23			16.5	0.0	
100	PI2 BPSK	135	69	15.24			16.5	0.0	
100	PI2 BPSK	135	138	15.30			16.5	0.0	
100	PI2 BPSK	270	0	15.11					
100	QPSK	1	1	15.59					
100	QPSK	1	137	15.26			16.5	0.0	
100	QPSK	1	271	15.28					
100	QPSK	135	0	15.40			16.5	0.0	
100	QPSK	135	69	15.37			16.5	0.0	
100	QPSK	135	138	15.19			16.5	0.0	
100	QPSK	270	0	15.47					
100	16QAM	1	1	15.32			16.5	0.0	
100	64QAM	1	1	15.40			16.5	0.0	
100	256QAM	1	1	15.07			16.5	0.0	
Channel				63000	63334	63668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.32	15.27	15.36	16.5	0.0	
Channel				63068	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.47	15.24	15.45	16.5	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.37	15.21	15.31	16.5	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3505.02			
60	QPSK	1	1	15.37	15.47	15.40	16.5	0.0	
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.31	15.21	15.33	16.5	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.45	15.20	15.45	16.5	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.43	15.40	15.45	16.5	0.0	
Channel				63068	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.45	15.33	15.26	16.5	0.0	

Intra Band UL CA

Ant 5 Full Power

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.88	24.00
21100	21298	QPSK	1	99	1	0	22.96	24.00
21350	21152	QPSK	1	0	1	99	22.83	24.00

Ant 5 Full Power

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	23.52	24.00
40620	40818	QPSK	1	99	1	0	23.45	24.00
41490	41292	QPSK	1	0	1	99	23.68	24.00

Ant 2 Full Power

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	23.42	24.00
42590	42788	QPSK	1	99	1	0	23.37	24.00
42990	42792	QPSK	1	0	1	99	23.31	24.00



Ant5 Sensor on&Hotspot&Handheld

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	18.89	20.00
21100	21298	QPSK	1	99	1	0	19.08	20.00
21350	21152	QPSK	1	0	1	99	18.87	20.00

Ant5 Sensor on&Hotspot&Handheld

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.91	23.00
40620	40818	QPSK	1	99	1	0	22.27	23.00
41490	41292	QPSK	1	0	1	99	22.05	23.00

Ant2 Sensor on&Handheld

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	20.15	21.50
42590	42788	QPSK	1	99	1	0	20.13	21.50
42990	42792	QPSK	1	0	1	99	20.27	21.50

Ant2 Receiver on

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	18.68	20.00
42590	42788	QPSK	1	99	1	0	18.85	20.00
42990	42792	QPSK	1	0	1	99	18.75	20.00

Ant2 Hotspot

CA_42C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	18.23	19.00
42590	42788	QPSK	1	99	1	0	18.18	19.00
42990	42792	QPSK	1	0	1	99	18.41	19.00

2CA DL

CA List	PCC										SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna configuration	LTE	BW	DL	DL	DL Antenna configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)	
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.32	22.47	
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.38	22.47	
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.19	22.39	
CA_2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.39	22.47	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.43	22.62	
CA_4A-5A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.27	22.39	
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	22.38	22.62	
CA_4A-7A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.26	22.39	
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.79	23.00	
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.59	22.62	
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.76	23.00	
CA_5A-41A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.51	22.62	
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.29	23.50	
CA_7B	Band 7	Ant5	15M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2544.3	3193	4x4MIMO	22.84	23.00	
CA_7C	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.79	23.00	
CA_7A-26A	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.88	23.00	
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.64	22.81	
CA_7A-42A	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	22.81	23.00	
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.66	22.83	
CA_26A-41A	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.73	22.81	
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.33	23.50	
CA_38C	Band 38	Ant5	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 38	20M	2614.8	38198	4x4MIMO	23.16	23.34	
CA_41A-42A	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.29	23.50	
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.71	22.83	
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	22.38	22.45	
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.35	22.45	



3CA DL

3CA List	PCC								DL Antenna configuration	SCC1				DL Antenna configuration	SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL	DL Antenna configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	RB Offset		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx. Power	Tx. Power
				(MHz)		(MHz)						(MHz)					(MHz)		(dBm)		
CA_2A_7C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.26	22.47
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.87	23
CA_2A_7A_7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.24	22.47
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.83	23
CA_4A_7C	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.26	22.39
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.90	23
CA_5A_7C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2674.8	3298	4x4MIMO	22.46	22.62
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.82	23
CA_5A_66A_66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.43	22.62
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.29	22.45
CA_7A_66A_66A	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.85	23
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.29	22.45
CA_41A_41A_41A	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2506	39750	4x4MIMO	23.31	23.5
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	23.36	23.5
CA_41C-42A	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.63	22.83
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.29	23.5
CA_41A-42C	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.65	22.83
	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.59	22.83
CA_42D	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 42	20M	3539.6	42986	4x4MIMO	22.59	22.83



4CA DL

Configure	PCC								DL Antenna configuration	SCC1				DL Antenna configuration	SCC2				DL Antenna configuration	SCC3				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL		LTE	BW	DL	DL	DL Antenna configuration	With CA	Without CA
	Band	Act	(MHz)	Freq.	Channel		RB	Offset		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx. Power	Tx. Power
			(MHz)	(MHz)							(MHz)	(MHz)				(MHz)	(MHz)			(MHz)	(MHz)			(dBm)	(dBm)	
CA_41C-41C	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.35	23.5
CA_41E	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.4	41214	4x4MIMO	23.28	23.5
CA_41A-41D	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2679.8	41448	4x4MIMO	Band 41	20M	2656	41250	4x4MIMO	23.41	23.5
CA_41A-41A-41C	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	5M	2687.5	41565	4x4MIMO	Band 41	20M	2510	39790	4x4MIMO	Band 41	20M	2529.8	39988	4x4MIMO	23.34	23.5
CA_41C-42C	Band 41	Ant5	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	23.37	23.5
	Band 42	Ant2	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 42	20M	3519.8	42788	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.71	22.83



WLAN/Bluetooth Power

Mode	Channel	Ant 8 Full Power Head (Standalone)				Ant 8 Head (Simultaneous)		Ant 8 Hotspot Body Worn (Simultaneous)		Duty Cycle %
		Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	17.85	19.50	15.84	17.50	15.32	17.00	98.31	
	11	2437	17.99	19.50	15.74	17.50	15.25	17.00		
802.11g 6Mbps	1	2412	17.01	19.00		17.50		17.00	98.62	
	6	2437	16.78	18.50		17.50		17.00		
802.11n-HT20 MCS9	1	2412	15.10	17.50	Not Required		Not Required		97.79	
	6	2437	15.81	17.50		17.50		17.00		
802.11n-HT40 MCS9	3	2422	14.49	16.00		17.00		17.00	94.93	
	6	2437	15.42	17.50		17.00		17.00		

Mode	Channel	Ant 8 Full Power Body Worn (Standalone)				Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Body Worn (Standalone)		Ant 8 Body Worn (Simultaneous)		Ant 8 Handheld (Simultaneous)		Duty Cycle %
		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		
802.11a 6Mbps	36	5180	17.28	19.00		15.00		11.00		12.00		14.00		15.50	97.93	
	40	5200	16.98	18.50		15.00		11.00		12.00		14.00		15.50		
	44	5220	16.71	18.50		15.00		11.00		12.00		14.00		15.50		
	48	5240	16.40	18.00		15.00		11.00		12.00		14.00		15.50		
802.11n-HT20 MCS9	36	5180	17.12	18.50		15.00		11.00		12.00		14.00		15.50	98.52	
	40	5200	16.89	18.00		15.00		11.00		12.00		14.00		15.50		
	44	5220	16.48	18.00		15.00		11.00		12.00		14.00		15.50		
	48	5240	16.21	18.00	Not Required	15.00	Not Required	11.00	Not Required	12.00	Not Required	14.00	Not Required	15.50		
802.11n-HT40 MCS9	38	5190	17.27	19.00		15.00		11.00		12.00		14.00		15.50	96.32	
	48	5230	16.77	18.50		15.00		11.00		12.00		14.00		15.50		
802.11ac VHT20 MCS9	38	5190	17.20	19.00		15.00		11.00		12.00		14.00		15.50	97.43	
	40	5200	16.73	18.50		15.00		11.00		12.00		14.00		15.50		
	44	5220	16.50	18.50		15.00		11.00		12.00		14.00		15.50		
	48	5240	16.12	18.00		15.00		11.00		12.00		14.00		15.50		
802.11ac VHT40 MCS9	38	5190	17.28	19.00		15.00		11.00		12.00		14.00		15.50	96.35	
	48	5230	16.75	18.50		15.00		11.00		12.00		14.00		15.50		
802.11ac VHT80 MCS9	42	5210	15.19	17.00	13.39	15.00	9.43	11.00	10.54	12.00	12.50	14.00	14.23	15.50	92.75	

Mode	Channel	Ant 8 Full Power Handheld (Standalone)				Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Body Worn (Standalone)		Ant 8 Body Worn (Simultaneous)		Ant 8 Handheld (Simultaneous)		Duty Cycle %
		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		
802.11a 6Mbps	52	5280	16.49	18.00		14.50		10.00		11.50		13.50		15.50	97.93	
	56	5300	16.58	18.50		14.50		10.00		11.50		13.50		15.50		
	60	5320	16.68	18.50		14.50		10.00		11.50		13.50		15.50		
	64	5330	16.80	18.50		14.50		10.00		11.50		13.50		15.50		
802.11n-HT20 MCS9	52	5280	16.23	18.00		14.50		10.00		11.50		13.50		15.50	98.52	
	56	5300	16.28	18.00		14.50		10.00		11.50		13.50		15.50		
	60	5300	16.44	18.00		14.50		10.00		11.50		13.50		15.50		
	64	5320	16.41	18.00		14.50		10.00		11.50		13.50		15.50		
802.11n-HT40 MCS9	62	5310	16.91	18.50	Not Required	14.50	Not Required	10.00	10.06	11.50	Not Required	13.50	Not Required	15.50	96.32	
	64	5320	16.51	18.00		14.50		10.00	10.06	11.50		13.50		15.50		
802.11ac VHT20 MCS9	52	5280	16.15	18.00		14.50		10.00		11.50		13.50		15.50	97.43	
	56	5300	16.22	18.00		14.50		10.00		11.50		13.50		15.50		
	60	5300	16.43	18.00		14.50		10.00		11.50		13.50		15.50		
	64	5320	16.49	18.00		14.50		10.00		11.50		13.50		15.50		
802.11ac VHT40 MCS9	54	5270	16.56	18.50		14.50		10.00		11.50		13.50		15.50	96.35	
	62	5310	13.87	15.50		14.50		10.00		11.50		13.50		15.50		
802.11ac VHT80 MCS9	58	5290	14.68	16.50	13.24	14.50	8.36	10.00		11.50	11.53	13.50	14.14	15.50	92.75	

Mode	Channel	Ant 8 Full Power Handheld (Standalone)				Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Body Worn (Standalone)		Ant 8 Body Worn (Simultaneous)		Ant 8 Handheld (Simultaneous)		Duty Cycle %
		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		
802.11a 6Mbps	100	5500	17.19	19.00		13.50		10.00		11.50		13.50		14.00	97.93	
	116	5580	16.25	18.00		13.50		10.00		11.50		13.50		14.00		
	124	5600	16.20	18.00		13.50		10.00		11.50		13.50		14.00		
	132	5650	16.68	18.50		13.50		10.00		11.50		13.50		14.00		
	140	5700	17.10	19.00		13.50		10.00		11.50		13.50		14.00		
	144	5720	17.61	19.00		13.50		10.00		11.50		13.50		14.00		
802.11n-HT20 MCS9	100	5500	16.87	18.50		13.50		10.00		11.50		13.50		14.00	98.52	
	116	5580	16.90	17.50		13.50		10.00		11.50		13.50		14.00		
	124	5620	15.67	17.50		13.50		10.00		11.50		13.50		14.00		
	132	5660	16.15	18.00		13.50		10.00		11.50		13.50		14.00		
	140	5700	16.64	18.50		13.50		10.00		11.50		13.50		14.00		
	144	5720	16.88	18.50		13.50		10.00		11.50		13.50		14.00		
802.11n-HT40 MCS9	102	5510	17.28	19.00		13.50		10.00		11.50		13.50		14.00	96.32	
	110	5550	16.73	18.50	Not Required	13.50	Not Required	10.00	10.00	11.50	Not Required	13.50	Not Required	14.00		
802.11ac VHT20 MCS9	126	5630	16.27	18.00		13.50		10.00		11.50		13.50		14.00	97.43	
	134	5670	16.81	18.50		13.50		10.00		11.50		13.50		14.00		
	142	5710	17.03	19.00		13.50		10.00		11.50		13.50		14.00		
	100	5500	16.90	18.50		13.50		10.00		11.50		13.50		14.00		
	116	5580	15.96	17.50		13.50		10.00		11.50		13.50		14.00		
	122	5610	16.18	18.00		13.50		10.00		11.50		13.50		14.00		
802.11ac VHT40 MCS9	110	5550	16.67	18.50		13.50		10.00		11.50		13.50		14.00	96.35	
	126	5630	16.31	18.00		13.50		10.00		11.50		13.50		14.00		
	134	5670	16.84	17.50		13.50		10.00		11.50		13.50		14.00		
	100	5500	17.06	19.00		13.50		10.00		11.50		13.50		14.00		
	116	5580	15.96	17.50		13.50		10.00		11.50		13.50		14.00		
	122	5610	16.35	14.00	11.51	13.50	7.79	10.00	12.35	14.00	11.00	10.72	13.00	11.66		14.00
802.11ac VHT80 MCS9	128	5610	14.00	15.50	11.23	13.50	7.14	10.00	14.00	15.50	10.72	13.00	11.66	14.00	92.75	
	138	5690	15.09	17.00	12.08	13.50	8.07	10.00	13.99	17.50	11.63	13.00	12.63	14.00		

Mode	Channel	Ant 8 Full Power Handheld (Standalone)				Ant 8 Head (Standalone)		Ant 8 Head (Simultaneous)		Ant 8 Body Worn (Standalone)		Ant 8 Body Worn (Simultaneous)		Ant 8 Handheld (Simultaneous)		Duty Cycle %
		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		
802.11a 6Mbps	149	5745	17.05	18.50		14.50		10.50		12.00		14.00		15.50	97.93	
	157	5785	16.61	18.50		14.50		10.50		12.00		14.00		15.50		
	165	5825	16.24	18.00		14.50		10.50		12.00		14.00		15.50		
802.11n-HT20 MCS9	149	5745	16.66	18.50		14.50		10.50		12.00		14.00		15.50	98.52	
	157	5785	16.30	18.00		14.50		10.50		12.00		14.00		15.50		
	165	5825	15.93	17.50		14.50		10.50		12.00		14.00		15.50		
802.11n-HT40 MCS9	151	5755	16.68	18.50	Not Required	14.50	Not Required	10.50	10.50	12.00	Not Required	14.00	Not Required	15.50	96.32	
	159	5795	16.67	18.50		14.50		10.50		12.00		14.00		15.50		
802.11ac VHT20 MCS9	149	5745	16.66	18.50</												