

10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %

10489	AAF	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAE	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAF	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAE	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	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAC	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	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAC	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	8.39	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %



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

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

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



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



10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %



10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %

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



**Appendix E. Conducted RF Output Power Table**

The detailed power table are shown as follows.





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

		GSM850 Default							
		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
GSM850		128	189	251		128	189	251	
TX Channel		824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)		32.30	32.74	32.52	33.50	23.30	23.74	23.52	24.50
GSM 1 Tx slot		32.24	32.73	32.47	33.50	23.24	23.73	23.47	24.50
GPRS 2 Tx slots		31.23	31.57	31.62	32.50	25.23	25.57	25.62	26.50
GPRS 3 Tx slots		29.51	29.78	29.84	31.50	25.25	25.52	25.58	27.24
GPRS 4 Tx slots		28.77	28.79	28.75	30.50	25.77	25.79	25.75	27.50
EDGE 1 Tx slot		26.60	26.81	26.97	27.50	17.60	17.81	17.97	18.50
EDGE 2 Tx slots		25.55	25.59	25.86	27.00	19.55	19.59	19.86	21.00
EDGE 3 Tx slots		23.12	23.26	23.36	24.50	18.86	19.00	19.10	20.24
EDGE 4 Tx slots		22.08	22.10	22.27	23.00	19.08	19.10	19.27	20.00

		GSM1900 Default							
		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
GSM1900		512	661	810		512	661	810	
TX Channel		1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)		28.96	29.07	29.00	30.50	19.96	20.07	20.00	21.50
GSM 1 Tx slot		28.93	29.06	28.96	30.50	19.93	20.06	19.96	21.50
GPRS 2 Tx slots		28.43	28.30	28.36	30.00	22.43	22.30	22.36	24.00
GPRS 3 Tx slots		26.68	26.82	26.75	28.50	22.42	22.56	22.49	24.24
GPRS 4 Tx slots		25.57	25.71	25.65	27.50	22.57	22.71	22.65	24.50
EDGE 1 Tx slot		25.89	25.95	25.97	26.50	16.89	16.95	16.97	17.50
EDGE 2 Tx slots		24.76	24.82	24.84	25.50	18.76	18.82	18.84	19.50
EDGE 3 Tx slots		22.58	22.61	22.63	23.50	18.32	18.35	18.37	19.24
EDGE 4 Tx slots		21.28	21.34	21.41	22.50	18.28	18.34	18.41	19.50

		WCDMA II Default			WCDMA V Default				
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		4132	4182	4233	
Rx Channel		9662	9800	9938	4597	4407	4458		
Frequency (MHz)		1852.4	1880	1907.5	836.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.88	22.93	22.78	24.00	22.92	23.10	23.05	24.00
3GPP Rel 99	RM C 12.2Kbps	23.02	23.06	22.96	24.00	23.09	23.24	23.22	24.00
3GPP Rel 6	HSDPA Subtest-1	22.23	22.11	22.14	23.00	22.35	22.26	22.29	23.00
3GPP Rel 6	HSDPA Subtest-2	22.29	22.25	22.12	23.00	22.29	22.37	22.26	23.00
3GPP Rel 6	HSDPA Subtest-3	21.83	21.65	21.64	22.50	22.05	21.83	21.86	22.50
3GPP Rel 6	HSDPA Subtest-4	21.82	21.69	21.71	22.50	22.02	21.91	21.87	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.07	22.14	21.96	23.00	22.26	22.35	22.16	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.98	22.29	22.07	23.00	22.17	22.50	22.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.62	21.71	21.47	22.50	21.80	21.88	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.50	21.86	21.70	22.50	21.62	22.04	21.92	22.50
3GPP Rel 6	HSUPA Subtest-1	22.24	22.07	22.19	23.00	22.45	22.31	22.36	23.00
3GPP Rel 6	HSUPA Subtest-2	20.23	20.26	20.15	21.00	20.45	20.49	20.27	21.00
3GPP Rel 6	HSUPA Subtest-3	21.23	21.22	21.11	22.00	21.37	21.37	21.23	22.00
3GPP Rel 6	HSUPA Subtest-4	20.29	20.24	20.09	21.00	20.47	20.39	20.27	21.00
3GPP Rel 6	HSUPA Subtest-5	22.25	22.31	22.14	23.00	22.45	22.45	22.35	23.00



Band 2 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)	
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.			
20	QPSK	1	0	22.81	22.82	22.86			
20	QPSK	1	4	22.82	22.83	22.81			24
20	QPSK	1	9	22.82	22.88	22.84			
20	QPSK	50	0	21.79	21.82	21.88			
20	QPSK	50	4	21.79	21.81	21.81			23
20	QPSK	50	9	21.79	21.83	21.89			
20	QPSK	100	0	21.87	21.76	21.71			
20	QPSK	100	4	21.83	21.83	21.83			23
20	QPSK	100	9	21.83	21.89	21.89			
20	QPSK	150	0	21.48	21.59	21.49			23
20	QPSK	150	4	21.48	21.62	21.57			
20	QPSK	150	9	21.48	21.65	21.61			
20	QPSK	200	0	20.46	20.54	20.47			22
20	QPSK	200	4	20.46	20.58	20.53			
20	QPSK	200	9	20.46	20.62	20.57			
20	QPSK	250	0	19.56	19.60	19.47			22
20	QPSK	250	4	19.56	19.64	19.59			
20	QPSK	250	9	19.56	19.68	19.63			
20	QPSK	300	0	18.55	18.59	18.63			21
20	QPSK	300	4	18.55	18.63	18.66			
20	QPSK	300	9	18.55	18.71	18.74			
20	QPSK	350	0	17.55	17.59	17.59			19
20	QPSK	350	4	17.55	17.63	17.63			
20	QPSK	350	9	17.55	17.71	17.71			
20	QPSK	400	0	16.55	16.59	16.63			19
20	QPSK	400	4	16.55	16.67	16.67			
20	QPSK	400	9	16.55	16.75	16.75			
20	QPSK	450	0	15.55	15.59	15.63			19
20	QPSK	450	4	15.55	15.67	15.67			
20	QPSK	450	9	15.55	15.75	15.75			
20	QPSK	500	0	14.55	14.59	14.63			19
20	QPSK	500	4	14.55	14.67	14.67			
20	QPSK	500	9	14.55	14.75	14.75			
20	QPSK	550	0	13.55	13.59	13.63			19
20	QPSK	550	4	13.55	13.67	13.67			
20	QPSK	550	9	13.55	13.75	13.75			
20	QPSK	600	0	12.55	12.59	12.63			19
20	QPSK	600	4	12.55	12.67	12.67			
20	QPSK	600	9	12.55	12.75	12.75			
20	QPSK	650	0	11.55	11.59	11.63			19
20	QPSK	650	4	11.55	11.67	11.67			
20	QPSK	650	9	11.55	11.75	11.75			
20	QPSK	700	0	10.55	10.59	10.63			19
20	QPSK	700	4	10.55	10.67	10.67			
20	QPSK	700	9	10.55	10.75	10.75			
20	QPSK	750	0	9.55	9.59	9.63			19
20	QPSK	750	4	9.55	9.67	9.67			
20	QPSK	750	9	9.55	9.75	9.75			
20	QPSK	800	0	8.55	8.59	8.63			19
20	QPSK	800	4	8.55	8.67	8.67			
20	QPSK	800	9	8.55	8.75	8.75			
20	QPSK	850	0	7.55	7.59	7.63			19
20	QPSK	850	4	7.55	7.67	7.67			
20	QPSK	850	9	7.55	7.75	7.75			
20	QPSK	900	0	6.55	6.59	6.63			19
20	QPSK	900	4	6.55	6.67	6.67			
20	QPSK	900	9	6.55	6.75	6.75			
20	QPSK	950	0	5.55	5.59	5.63			19
20	QPSK	950	4	5.55	5.67	5.67			
20	QPSK	950	9	5.55	5.75	5.75			
20	QPSK	1000	0	4.55	4.59	4.63			19
20	QPSK	1000	4	4.55	4.67	4.67			
20	QPSK	1000	9	4.55	4.75	4.75			
20	QPSK	1050	0	3.55	3.59	3.63			19
20	QPSK	1050	4	3.55	3.67	3.67			
20	QPSK	1050	9	3.55	3.75	3.75			
20	QPSK	1100	0	2.55	2.59	2.63			19
20	QPSK	1100	4	2.55	2.67	2.67			
20	QPSK	1100	9	2.55	2.75	2.75			
20	QPSK	1150	0	1.55	1.59	1.63			19
20	QPSK	1150	4	1.55	1.67	1.67			
20	QPSK	1150	9	1.55	1.75	1.75			
20	QPSK	1200	0	0.55	0.59	0.63			19
20	QPSK	1200	4	0.55	0.67	0.67			
20	QPSK	1200	9	0.55	0.75	0.75			

Band 4 Ant0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)	
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.			
20	QPSK	1	0	22.41	22.44	22.46			
20	QPSK	1	4	22.42	22.43	22.43			24
20	QPSK	1	9	22.42	22.46	22.37			
20	QPSK	50	0	21.79	21.82	21.81			
20	QPSK	50	4	21.79	21.81	21.81			23
20	QPSK	50	9	21.79	21.83	21.89			
20	QPSK	100	0	21.89	21.82	21.76			
20	QPSK	100	4	21.85	21.83	21.83			23
20	QPSK	100	9	21.85	21.89	21.89			
20	QPSK	150	0	21.48	21.54	21.47			
20	QPSK	150	4	21.48	21.58	21.54			23
20	QPSK	150	9	21.48	21.62	21.57			
20	QPSK	200	0	20.46	20.54	20.47			22
20	QPSK	200	4	20.46	20.58	20.53			
20	QPSK	200	9	20.46	20.62	20.57			
20	QPSK	250	0	19.56	19.60	19.47			22
20	QPSK	250	4	19.56	19.64	19.59			
20	QPSK	250	9	19.56	19.68	19.63			
20	QPSK	300	0	18.55	18.59	18.63			21
20	QPSK	300	4	18.55	18.63	18.66			
20	QPSK	300	9	18.55	18.71	18.74			
20	QPSK	350	0	17.55	17.59	17.59			19
20	QPSK	350	4	17.55	17.63	17.63			
20	QPSK	350	9	17.55	17.71	17.71			
20	QPSK	400	0	16.55	16.59	16.63			19
20	QPSK	400	4	16.55	16.67	16.67			
20	QPSK	400	9	16.55	16.75	16.75			
20	QPSK	450	0	15.55	15.59	15.63			19
20	QPSK	450	4	15.55	15.67	15.67			
20	QPSK	450	9	15.55	15.75	15.75			
20	QPSK	500	0	14.55	14.59	14.63			19
20	QPSK	500	4	14.55	14.67	14.67			
20	QPSK	500	9	14.55	14.75	14.75			
20	QPSK	550	0	13.55	13.59	13.63			19
20	QPSK	550	4	13.55	13.67	13.67			
20	QPSK	550	9	13.55	13.75	13.75			
20	QPSK	600	0	12.55	12.59	12.63			19
20	QPSK	600	4	12.55	12.67	12.67			
20	QPSK	600	9	12.55	12.75	12.75			
20	QPSK	650	0	11.55	11.59	11.63			19
20	QPSK	650	4	11.55	11.67	11.67			
20	QPSK	650	9	11.55	11.75	11.75			
20	QPSK	700	0	10.55	10.59	10.63			19
20	QPSK	700	4	10.55	10.67	10.67			
20	QPSK	700	9	10.55	10.75	10.75			
20	QPSK	750	0	9.55	9.59	9.63			19
20	QPSK	750	4	9.55	9.67	9.67			
20	QPSK	750	9	9.55	9.75	9.75			
20	QPSK	800	0	8.55	8.59	8.63			19
20	QPSK	800	4	8.55	8.67	8.67			
20	QPSK	800	9	8.55	8.75	8.75			
20	QPSK	850	0	7.55	7.59	7.63			19
20	QPSK	850	4	7.55	7.67	7.67			
20	QPSK	850	9	7.55	7.75	7.75			
20	QPSK	900	0	6.55	6.59	6.63			19
20	QPSK	900	4	6.55	6.67	6.67			
20	QPSK	900	9	6.55	6.75	6.75			
20	QPSK	950	0	5.55	5.59	5.63			19
20	QPSK	950	4	5.55	5.67	5.67			
20	QPSK	950	9	5.55	5.75	5.75			





Band 12 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.77	22.73				
10	QPSK	1	24	22.81	22.88	22.84	24	0		
10	QPSK	1	48	22.91	22.98	22.94				
10	QPSK	25	0	21.56	21.63	21.52				
10	QPSK	25	12	21.56	21.63	21.52				
10	QPSK	25	24	21.52	21.60	21.50	23	1		
10	QPSK	50	0	21.56	21.63	21.52				
10	16QAM	50	0	21.52	21.66	21.51				
10	16QAM	1	24	21.47	21.53	21.48	23	1		
10	16QAM	1	48	21.48	21.57	21.51				
10	16QAM	25	0	20.50	20.59	20.47				
10	16QAM	25	12	20.39	20.51	20.44	22	2		
10	16QAM	25	24	20.51	20.57	20.51				
10	16QAM	50	0	20.50	20.56	20.51				
10	64QAM	1	0	20.59	20.69	20.55				
10	64QAM	1	24	20.53	20.67	20.44	22	2		
10	64QAM	1	48	20.51	20.66	20.49				
10	64QAM	25	0	19.54	19.58	19.47				
10	64QAM	25	12	19.41	19.52	19.44				
10	64QAM	25	24	19.54	19.53	19.53	21	3		
10	64QAM	50	0	19.38	19.51	19.45				
10	256QAM	1	24	17.76	17.79	17.78	19	5		
10	256QAM	1	48	17.78	17.79	17.74				
10	256QAM	25	0	17.52	17.62	17.54				
10	256QAM	25	12	17.74	17.78	17.75	19	5		
10	256QAM	25	24	17.82	17.78	17.74				
10	256QAM	50	0	17.65	17.68	17.64				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.59	22.71	22.67				
5	QPSK	1	12	22.64	22.66	22.66	24	0		
5	QPSK	1	24	22.48	22.53	22.50				
5	QPSK	12	0	21.48	21.62	21.48				
5	QPSK	12	7	21.47	21.47	21.44	23	1		
5	QPSK	12	13	21.44	21.48	21.43				
5	QPSK	25	0	21.42	21.54	21.47				
5	16QAM	1	24	21.41	21.46	21.46	23	1		
5	16QAM	1	12	21.33	21.41	21.43				
5	16QAM	1	24	21.34	21.39	21.37				
5	16QAM	12	0	20.41	20.46	20.43	22	2		
5	16QAM	12	7	20.33	20.43	20.34				
5	16QAM	12	13	20.41	20.42	20.43				
5	64QAM	1	0	20.55	20.65	20.50				
5	64QAM	1	24	20.41	20.56	20.39	22	2		
5	64QAM	1	48	20.45	20.57	20.35				
5	64QAM	12	0	19.43	19.52	19.37				
5	64QAM	12	7	19.34	19.48	19.31	21	3		
5	64QAM	12	13	19.49	19.45	19.41				
5	64QAM	25	0	19.33	19.38	19.40				
5	256QAM	1	24	17.85	17.85	17.83	19	5		
5	256QAM	1	48	17.79	17.77	17.77				
5	256QAM	25	0	17.52	17.62	17.54				
5	256QAM	25	12	17.75	17.78	17.75	19	5		
5	256QAM	25	24	17.72	17.71	17.74				
5	256QAM	50	0	17.65	17.68	17.64				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.63	22.68	22.67				
3	QPSK	1	8	22.63	22.65	22.62	24	0		
3	QPSK	1	14	22.40	22.52	22.48				
3	QPSK	8	0	21.50	21.59	21.44				
3	QPSK	8	7	21.46	21.55	21.44	23	1		
3	16QAM	1	14	21.46	21.48	21.47				
3	16QAM	1	0	21.39	21.63	21.51	23	1		
3	16QAM	1	8	21.43	21.59	21.41				
3	16QAM	1	16	21.46	21.46	21.46				
3	16QAM	8	0	20.42	20.46	20.39	22	2		
3	16QAM	8	4	20.34	20.40	20.38				
3	16QAM	8	12	20.38	20.50	20.46				
3	64QAM	1	0	20.46	20.44	20.41				
3	64QAM	1	8	20.50	20.55	20.43	22	2		
3	64QAM	1	16	20.43	20.48	20.32				
3	64QAM	1	14	20.36	20.48	20.42				
3	64QAM	8	0	19.40	19.47	19.32				
3	64QAM	8	4	19.30	19.45	19.30	21	3		
3	64QAM	8	7	19.50	19.50	19.50				
3	64QAM	15	0	19.29	19.38	19.41				
3	256QAM	1	0	17.85	17.85	17.83	19	5		
3	256QAM	1	14	17.70	17.75	17.72				
3	256QAM	1	14	17.78	17.81	17.70				
3	256QAM	8	0	17.81	17.82	17.82				
3	256QAM	8	4	17.71	17.74	17.76	19	5		
3	256QAM	8	7	17.79	17.82	17.83				
3	256QAM	15	0	17.89	17.71	17.77				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.52	22.61	22.67				
1.4	QPSK	1	3	22.60	22.62	22.50				
1.4	QPSK	1	5	22.38	22.57	22.43	24	0		
1.4	QPSK	3	0	22.51	22.61	22.42				
1.4	QPSK	3	1	22.48	22.54	22.44				
1.4	QPSK	3	3	22.40	22.51	22.45	23	1		
1.4	16QAM	1	0	21.46	21.63	21.57				
1.4	16QAM	1	3	21.37	21.43	21.38				
1.4	16QAM	1	5	21.38	21.47	21.37				
1.4	16QAM	3	0	21.43	21.49	21.34	23	1		
1.4	16QAM	3	1	21.27	21.40	21.33				
1.4	16QAM	3	3	21.40	21.53	21.39				
1.4	16QAM	6	0	20.40	20.43	20.40	22	2		
1.4	64QAM	1	0	20.48	20.55	20.51				
1.4	64QAM	1	3	20.46	20.51	20.39				
1.4	64QAM	1	5	20.39	20.54	20.43	22	2		
1.4	64QAM	3	0	20.45	20.46	20.35				
1.4	64QAM	3	20.37	20.39	20.38					
1.4	64QAM	3	3	20.48	20.55	20.40	21	3		
1.4	64QAM	6	0	19.27	19.47	19.33				
1.4	256QAM	1	0	17.85	17.86	17.87	19	5		
1.4	256QAM	1	3	17.88	17.79	17.70				
1.4	256QAM	1	3	17.78	17.72	17.81				
1.4	256QAM	3	0	17.74	17.77	17.74				
1.4	256QAM	3	1	17.74	17.89	17.79				
1.4	256QAM	3	3	17.79	17.72	17.77	19	5		
1.4	256QAM	6	0	17.76	17.74					

Band 13 Ant0 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.97	22.93				
10	QPSK	1	24	22.91	22.97	22.92	24	0		
10	QPSK	1	48	22.71	22.80	22.76				
10	QPSK	25	0	21.70	21.76	21.66				
10	QPSK	25	12	21.70	21.76	21.66				
10	QPSK	25	24	21.62	21.62	21.62	23	1		
10	QPSK	50	0	21.63	21.67	21.67				
10	16QAM	1	24	21.59	21.59	21.59	23	1		
10	16QAM	1	48	21.54	21.54	21.54				
10	16QAM	25	0	20.49	20.50	20.49				
10	16QAM	25	12	20.49	20.51	20.44	22	2		
10	16QAM	25	24	20.42	20.42	20.42				
10	16QAM	50	0	20.49	20.50	20.49				
10	64QAM	1	0	20.59	20.59	20.59				
10	64QAM	1	24	20.54	20.54	20.54	22	2		
10	64QAM	1	48	20.52	20.52	20.52				
10	64QAM	25	0	19.52	19.52	19.52				
10	64QAM	25	12	19.53	19.53	19.53	21	3		
10	64QAM	25	24	19.41	19.41	1				



Band 2 Ant1 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
1860 1860 1900										
20	QPSK	1	0	22.12	22.22	22.25				
20	QPSK	1	49	22.16	22.16	22.16			24	0
20	QPSK	1	99	22.13	22.25	22.21				
20	QPSK	50	0	21.53	21.57	21.43				
20	QPSK	50	24	21.40	21.53	21.39				
20	QPSK	50	50	21.51	21.56	21.42			23	1
20	QPSK	100	0	21.56	21.51	21.52				
20	16QAM	50	0	21.40	21.51	21.37				
20	16QAM	1	49	21.38	21.44	21.31			23	1
20	16QAM	1	99	21.39	21.50	21.43				
20	16QAM	50	0	20.50	20.55	20.47				
20	16QAM	50	24	20.43	20.50	20.36			22	2
20	16QAM	50	50	20.47	20.36	20.51				
20	16QAM	100	0	20.63	20.56	20.52				
20	64QAM	1	0	20.49	20.52	20.39				
20	64QAM	1	49	20.37	20.41	20.35			22	2
20	64QAM	50	0	19.50	19.53	19.41				
20	64QAM	50	24	19.39	19.54	19.46				
20	64QAM	50	50	19.40	19.48	19.33			21	3
20	64QAM	100	0	19.58	19.52	19.59				
20	256QAM	1	49	17.46	17.47	17.46				
20	256QAM	1	99	17.33	17.39	17.40			19	5
20	256QAM	50	0	17.36	17.36	17.36				
20	256QAM	50	24	17.31	17.32	17.31				
20	256QAM	50	50	17.31	17.32	17.40			19	5
20	256QAM	100	0	17.26	17.27	17.27				
Channel										
1897.5 1899 1925.5										
15	QPSK	1	0	22.08	22.28	22.20				
15	QPSK	1	37	22.12	22.18	22.08			24	0
15	QPSK	1	74	22.08	22.18	22.12				
15	QPSK	36	0	21.46	21.47	21.35				
15	QPSK	36	25	21.25	21.41	21.29			23	1
15	QPSK	36	39	21.39	21.45	21.36				
15	QPSK	75	0	21.51	21.47	21.46				
15	16QAM	1	24	21.26	21.47	21.36				
15	16QAM	1	37	21.32	21.40	21.27			23	1
15	16QAM	1	74	21.27	21.36	21.24				
15	16QAM	36	0	20.36	20.44	20.35				
15	16QAM	36	20	20.30	20.36	20.30			22	2
15	16QAM	36	39	20.32	20.38	20.32				
15	16QAM	75	0	20.55	20.52	20.46				
15	64QAM	1	0	20.37	20.38	20.30			22	2
15	64QAM	1	37	20.42	20.45	20.37				
15	64QAM	1	74	20.28	20.35	20.25				
15	64QAM	36	0	19.36	19.48	19.30				
15	64QAM	36	20	19.34	19.48	19.38			21	3
15	64QAM	36	39	19.38	19.51	19.43				
15	64QAM	75	0	19.54	19.59	19.45				
15	256QAM	1	24	17.36	17.36	17.36				
15	256QAM	1	37	17.36	17.34	17.29			19	5
15	256QAM	1	74	17.32	17.40	17.31				
15	256QAM	36	0	17.34	17.36	17.34				
15	256QAM	36	20	17.30	17.31	17.28				
15	256QAM	36	39	17.34	17.38	17.40			19	5
15	256QAM	75	0	17.27	17.28	17.28				
Channel										
1865 1869 1905										
10	QPSK	1	0	22.00	22.20	22.10				
10	QPSK	1	25	22.07	22.09	22.08			24	0
10	QPSK	1	49	22.02	22.15	22.09				
10	QPSK	12	0	21.43	21.43	21.43				
10	QPSK	25	12	21.26	21.43	21.29			23	1
10	QPSK	25	25	21.44	21.56	21.38				
10	16QAM	1	24	21.20	21.43	21.32				
10	16QAM	1	0	21.28	21.37	21.44			23	1
10	16QAM	1	24	21.33	21.33	21.21				
10	16QAM	12	0	20.40	20.43	20.44				
10	16QAM	25	12	20.33	20.42	20.33			22	2
10	16QAM	25	25	20.30	20.44	20.36				
10	16QAM	50	0	20.58	20.54	20.45				
10	64QAM	1	0	20.44	20.43	20.35			22	2
10	64QAM	1	24	20.33	20.43	20.35				
10	64QAM	1	49	20.31	20.45	20.29				
10	64QAM	25	0	19.47	19.40	19.26				
10	64QAM	25	12	19.34	19.47	19.35			21	3
10	64QAM	25	25	19.40	19.51	19.44				
10	64QAM	50	0	19.45	19.53	19.47				
10	256QAM	1	24	17.32	17.32	17.28				
10	256QAM	1	24	17.37	17.37	17.32			19	5
10	256QAM	1	49	17.36	17.37	17.35				
10	256QAM	12	0	17.32	17.32	17.32				
10	256QAM	25	12	17.28	17.28	17.32			19	5
10	256QAM	25	25	17.34	17.37	17.32				
10	256QAM	50	0	17.34	17.29	17.25				
Channel										
1892.5 1899 1917.5										
5	QPSK	1	0	22.00	22.21	22.11				
5	QPSK	1	12	22.01	22.13	22.02			24	0
5	QPSK	1	24	22.06	22.11	22.09				
5	QPSK	12	0	21.43	21.43	21.43				
5	QPSK	12	7	21.36	21.41	21.34			23	1
5	QPSK	12	13	21.40	21.50	21.39				
5	QPSK	25	0	21.50	21.58	21.47				
5	16QAM	1	0	21.25	21.36	21.27			23	1
5	16QAM	1	12	21.21	21.38	21.16				
5	16QAM	1	24	21.33	21.43	21.32				
5	16QAM	12	0	20.42	20.46	20.43				
5	16QAM	12	7	20.36	20.38	20.27			22	2
5	16QAM	12	13	20.36	20.46	20.44				
5	16QAM	25	0	20.57	20.63	20.39				
5	64QAM	1	0	20.39	20.44	20.31			22	2
5	64QAM	1	12	20.30	20.37	20.22				
5	64QAM	1	24	20.32	20.36	20.31				
5	64QAM	12	0	19.36	19.48	19.29				
5	64QAM	12	7	19.25	19.41	19.28			21	3
5	64QAM	12	13	19.41	19.46	19.41				
5	64QAM	25	0	19.44	19.50	19.40				
5	256QAM	1	0	17.47	17.48	17.41				
5	256QAM	1	12	17.34	17.37	17.36			19	5
5	256QAM	1	24	17.32	17.39	17.33				
5	256QAM	12	0	17.34	17.36	17.43				
5	256QAM	12	7	17.34	17.38	17.37			19	5
5	256QAM	12	13	17.39	17.37	17.37				
5	256QAM	25	0	17.34	17.28	17.27				
Channel										
1861.5 1869 1915.5										
3	QPSK	1	0	22.07	22.20	22.11				
3	QPSK	1	8	22.06	22.07	22.01			24	0
3	QPSK	1	14	22.06	22.15	22.11				
3	QPSK	8	0	21.46	21.53	21.33				
3	QPSK	8	4	21.29	21.39	21.32			23	1
3	QPSK	8	7	21.43	21.46	21.34				
3	QPSK	15	0	21.44	21.55	21.39				
3	16QAM	1	0	21.31	21.42	21.33			23	1
3	16QAM	1	8	21.24	21.33	21.27				
3	16QAM	1	14	21.25	21.39	21.27				
3	16QAM	8	0	20.39	20.52	20.37			22	2
3	16QAM	8	4	20.29	20.40	20.23				
3	16QAM	8	7	20.39	20.45	20.29				
3	16QAM	15	0	20.51	20.51	20.38				
3	64QAM	1	0	20.39	20.48	20.28			22	2
3	64QAM	1	8	20.34	20.28	20.23				
3	64QAM	1	14	20.35	20.39	20.33				
3	64QAM	8	0	19.40	19.56	19.3				





Band 12 Ant1 Default										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.91	22.94	22.96				
10	QPSK	1	25	22.91	22.94	22.96			24	0
10	QPSK	1	49	22.78	22.81	22.75				
10	QPSK	25	0	21.71	21.61	21.70				
10	QPSK	25	12	21.73	21.74	21.69				
10	QPSK	25	25	21.84	21.74	21.82			23	1
10	QPSK	50	0	21.73	21.83	21.80				
10	16QAM	50	0	21.82	21.84	21.86				
10	16QAM	1	25	21.75	21.84	21.75			23	1
10	16QAM	1	49	21.69	21.82	21.74				
10	16QAM	25	0	20.70	20.84	20.78				
10	16QAM	25	12	20.87	20.81	20.78			22	2
10	16QAM	25	25	20.99	20.72	20.80				
10	16QAM	50	0	20.77	20.85	20.79				
10	64QAM	1	0	20.86	20.98	20.89				
10	64QAM	1	25	20.74	20.96	20.71			22	2
10	64QAM	1	49	20.64	20.98	20.72				
10	64QAM	25	0	19.77	19.87	19.75				
10	64QAM	25	12	19.73	19.81	19.73			21	3
10	64QAM	25	25	19.82	19.84	19.88				
10	64QAM	50	0	19.81	19.88	19.84				
10	256QAM	1	0	17.86	17.85	17.86				
10	256QAM	1	25	17.84	17.81	17.90			19	5
10	256QAM	1	49	17.95	17.89	17.87				
10	256QAM	25	0	17.87	17.86	17.88				
10	256QAM	25	12	17.87	17.90	17.88			19	5
10	256QAM	25	25	17.91	17.84	17.90				
10	256QAM	50	0	17.85	17.85	17.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.86	22.82	22.78				
5	QPSK	1	12	22.72	22.72	22.69			24	0
5	QPSK	1	24	22.65	22.74	22.66				
5	QPSK	12	0	21.58	21.66	21.63				
5	QPSK	12	7	21.66	21.74	21.64				
5	QPSK	12	13	21.56	21.69	21.59			23	1
5	QPSK	25	0	21.62	21.72	21.69				
5	16QAM	1	0	21.77	21.81	21.77				
5	16QAM	1	12	21.67	21.70	21.64			23	1
5	16QAM	1	24	21.59	21.70	21.63				
5	16QAM	12	0	20.96	20.74	20.72				
5	16QAM	12	7	20.96	20.73	20.72			22	2
5	16QAM	12	13	20.92	20.71	20.71				
5	16QAM	25	0	20.69	20.79	20.67				
5	64QAM	1	0	20.80	20.88	20.80				
5	64QAM	1	12	20.84	20.87	20.83			22	2
5	64QAM	1	24	20.50	20.67	20.57				
5	64QAM	12	0	19.83	19.83	19.84				
5	64QAM	12	7	19.84	19.79	19.80			21	3
5	64QAM	12	13	19.54	19.51	19.55				
5	64QAM	25	0	19.77	19.76	19.79				
5	256QAM	1	0	17.90	17.89	17.85				
5	256QAM	1	12	17.90	17.85	17.85			19	5
5	256QAM	1	24	17.92	17.89	17.94				
5	256QAM	12	0	17.86	17.86	17.86				
5	256QAM	12	7	17.91	17.84	17.86			19	5
5	256QAM	12	13	17.95	17.81	17.88				
5	256QAM	25	0	17.85	17.81	17.87				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.87	22.87	22.70				
3	QPSK	1	8	22.67	22.71	22.70			24	0
3	QPSK	1	14	22.66	22.68	22.71				
3	QPSK	8	0	21.65	21.68	21.54				
3	QPSK	8	7	21.60	21.66	21.57			23	1
3	16QAM	1	0	21.71	21.90	21.70				
3	16QAM	1	8	21.62	21.78	21.60			23	1
3	16QAM	1	14	21.59	21.76	21.63				
3	16QAM	8	0	20.66	20.79	20.62				
3	16QAM	8	4	20.52	20.75	20.66			22	2
3	16QAM	8	7	20.42	20.64	20.47				
3	64QAM	1	0	20.74	20.82	20.80				
3	64QAM	1	8	20.80	20.80	20.80			22	2
3	64QAM	1	14	20.58	20.74	20.61				
3	64QAM	8	0	19.92	19.77	19.67				
3	64QAM	8	4	19.80	19.68	19.61			21	3
3	64QAM	8	7	19.52	19.63	19.55				
3	256QAM	1	0	17.91	17.85	17.81				
3	256QAM	1	14	17.90	17.85	17.94			19	5
3	256QAM	8	0	17.90	17.89	17.85				
3	256QAM	8	4	17.85	17.90	17.85			19	5
3	256QAM	8	7	17.88	17.93	17.86				
3	256QAM	15	0	17.84	17.81	17.87				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.82	22.80	22.72				
1.4	QPSK	1	3	22.66	22.77	22.77				
1.4	QPSK	1	5	22.68	22.71	22.65			24	0
1.4	QPSK	3	0	22.67	22.70	22.61				
1.4	QPSK	3	1	22.67	22.67	22.54				
1.4	QPSK	3	3	22.54	22.68	22.54			23	1
1.4	16QAM	3	0	21.68	21.73	21.70				
1.4	16QAM	1	0	21.68	21.88	21.82			23	1
1.4	16QAM	1	3	21.67	21.75	21.67				
1.4	16QAM	1	5	21.69	21.72	21.71				
1.4	16QAM	3	0	21.64	21.70	21.72				
1.4	16QAM	3	1	21.63	21.72	21.69				
1.4	16QAM	3	3	21.54	21.67	21.57				
1.4	64QAM	1	0	20.71	20.81	20.85			22	2
1.4	64QAM	1	3	20.80	20.84	20.78				
1.4	64QAM	1	5	20.63	20.71	20.68			22	2
1.4	64QAM	3	0	20.63	20.81	20.70				
1.4	64QAM	3	3	20.70	20.70	20.62				
1.4	64QAM	3	3	20.47	20.69	20.57			21	3
1.4	256QAM	1	0	17.90	17.94	17.77				
1.4	256QAM	1	0	17.93	17.89	17.88				
1.4	256QAM	1	3	17.90	17.90	17.88			19	5
1.4	256QAM	1	3	17.89	17.87	17.86				
1.4	256QAM	3	0	17.95	17.93	17.89				
1.4	256QAM	3	1	17.89	17.89	17.88				
1.4	256QAM	3	3	17.88	17.96	17.85			19	5
1.4	256QAM	6	0	17.86	17.81	17.84				

Band 13 Ant1 Default										
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.92	22.93	22.93				
10	QPSK	1	25	22.81	22.81	22.81			24	0
10	QPSK	1	49	22.82	22.82	22.82				
10	QPSK	25	0	21.78	21.78	21.78				
10	QPSK	25	12	21.67	21.67	21.67			23	1
10	QPSK	25	25	21.72	21.72	21.72				
10	QPSK	50	0	21.70	21.70	21.70				
10	16QAM	50	0	21.82	21.82	21.82				
10	16QAM	1	25	21.74	21.74	21.74			23	1
10	16QAM	1	49	21.74	21.74	21.74				
10	16QAM	25	0	20.87	20.86	20.86				
10	16QAM	25	12	20.57	20.57	20.57			22	2
10	16QAM	25	25	20.89	20.89	20.89				
10	16QAM	50	0	20.88	20.88	20.88				
10	64QAM	1	0	20.88	20.88	20.88				
10	64QAM	1	25	20.72	20.72	20.72			22	2
10	64QAM	1	49	20.69	20.69	20.69				
10	64QAM	25	0	19.70	19.70	19.70				
10	64QAM	25	12	19.54	19.54	19.54			21	3
10	64QAM	25	25	19.82	19.82					



### Band 48 Ant3 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.56	22.61	22.32	22.49	24	0
20	QPSK	1	49	22.52	22.55	22.49	22.43		
20	QPSK	1	99	22.39	22.43	22.35	22.32		
20	QPSK	50	0	21.53	21.56	21.42	21.45		
20	QPSK	50	24	21.43	21.48	21.37	21.40	23	1
20	QPSK	50	50	21.32	21.46	21.39	21.31		
20	QPSK	100	0	21.40	21.45	21.34	21.39		
20	QPSK	1	0	21.55	21.55	21.53	21.58		
20	16QAM	1	49	21.51	21.56	21.45	21.45	23	1
20	16QAM	1	99	21.32	21.47	21.35	21.40		
20	16QAM	50	0	20.49	20.55	20.50	20.46		
20	16QAM	50	24	20.39	20.47	20.34	20.36		
20	16QAM	50	50	20.43	20.48	20.37	20.38	22	2
20	16QAM	100	0	20.32	20.40	20.36	20.36		
20	64QAM	1	0	20.56	20.62	20.52	20.50		
20	64QAM	1	49	20.44	20.53	20.49	20.44		
20	64QAM	1	99	20.35	20.42	20.39	20.37	22	2
20	64QAM	50	0	19.44	19.53	19.46	19.49		
20	64QAM	50	24	19.40	19.51	19.42	19.45		
20	64QAM	50	50	19.36	19.48	19.40	19.40		
20	64QAM	100	0	19.31	19.40	19.36	19.27	21	3
20	256QAM	1	0	17.61	17.55	17.62	17.65		
20	256QAM	1	49	17.50	17.46	17.52	17.54		
20	256QAM	1	99	17.60	17.59	17.57	17.58		
20	256QAM	50	0	17.62	17.64	17.58	17.63	19	5
20	256QAM	50	24	17.52	17.58	17.51	17.58		
20	256QAM	50	50	17.57	17.55	17.60	17.62		
20	256QAM	100	0	17.55	17.52	17.55	17.55		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.43	22.53	22.26	22.37	24	0
15	QPSK	1	37	22.37	22.46	22.44	22.35		
15	QPSK	1	74	22.28	22.33	22.23	22.28		
15	QPSK	36	0	21.48	21.47	21.32	21.41		
15	QPSK	36	20	21.35	21.40	21.29	21.30	23	1
15	QPSK	36	39	21.26	21.36	21.26	21.25		
15	QPSK	75	0	21.31	21.38	21.28	21.32		
15	16QAM	1	0	21.48	21.50	21.49	21.47		
15	16QAM	1	37	21.41	21.42	21.31	21.35	23	1
15	16QAM	1	74	21.26	21.34	21.23	21.34		
15	16QAM	36	0	20.37	20.44	20.40	20.39		
15	16QAM	36	20	20.32	20.42	20.22	20.32		
15	16QAM	36	39	20.36	20.35	20.25	20.31	22	2
15	16QAM	75	0	20.28	20.28	20.26	20.29		
15	64QAM	1	0	20.46	20.56	20.46	20.45		
15	64QAM	1	37	20.39	20.41	20.41	20.32		
15	64QAM	1	74	20.30	20.31	20.27	20.23	22	2
15	64QAM	36	0	19.36	19.46	19.36	19.41		
15	64QAM	36	20	19.35	19.47	19.28	19.31		
15	64QAM	36	39	19.30	19.34	19.30	19.31		
15	64QAM	75	0	19.22	19.36	19.29	19.23	21	3
15	256QAM	1	0	17.56	17.57	17.57	17.58		
15	256QAM	1	37	17.55	17.55	17.57	17.56		
15	256QAM	1	74	17.57	17.54	17.52	17.60		
15	256QAM	36	0	17.62	17.60	17.54	17.65	19	5
15	256QAM	36	20	17.56	17.56	17.49	17.48		
15	256QAM	36	39	17.63	17.59	17.55	17.59		
15	256QAM	75	0	17.49	17.55	17.53	17.51		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.51	22.56	22.25	22.37	24	0
10	QPSK	1	25	22.38	22.49	22.37	22.37		
10	QPSK	1	49	22.30	22.35	22.31	22.17		
10	QPSK	25	0	21.42	21.47	21.38	21.40		
10	QPSK	25	12	21.31	21.40	21.28	21.27	23	1
10	QPSK	25	25	21.28	21.40	21.24	21.24		
10	QPSK	50	0	21.37	21.40	21.30	21.28		
10	16QAM	1	0	21.45	21.62	21.41	21.51		
10	16QAM	1	25	21.37	21.48	21.35	21.42	23	1
10	16QAM	1	49	21.19	21.40	21.26	21.25		
10	16QAM	25	0	20.37	20.42	20.39	20.41		
10	16QAM	25	12	20.31	20.32	20.30	20.28		
10	16QAM	25	25	20.31	20.43	20.30	20.34	22	2
10	16QAM	50	0	20.26	20.36	20.28	20.24		
10	64QAM	1	0	20.46	20.48	20.41	20.46		
10	64QAM	1	25	20.39	20.38	20.37	20.40		
10	64QAM	1	49	20.26	20.30	20.33	20.33	22	2
10	64QAM	25	0	19.37	19.45	19.32	19.46		
10	64QAM	25	12	19.35	19.38	19.39	19.40		
10	64QAM	25	25	19.25	19.36	19.36	19.26		
10	64QAM	50	0	19.21	19.35	19.25	19.24	21	3
10	256QAM	1	0	17.66	17.60	17.65	17.65		
10	256QAM	1	25	17.49	17.56	17.50	17.50		
10	256QAM	1	49	17.55	17.56	17.58	17.55		
10	256QAM	25	0	17.57	17.61	17.53	17.61	19	5
10	256QAM	25	12	17.58	17.49	17.55	17.54		
10	256QAM	25	25	17.61	17.62	17.53	17.58		
10	256QAM	50	0	17.50	17.52	17.56	17.50		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.45	22.54	22.26	22.35	24	0
5	QPSK	1	12	22.41	22.50	22.39	22.35		
5	QPSK	1	24	22.27	22.33	22.30	22.17		
5	QPSK	12	0	21.42	21.44	21.29	21.31		
5	QPSK	12	7	21.29	21.38	21.26	21.34	23	1
5	QPSK	12	13	21.28	21.35	21.26	21.24		
5	QPSK	25	0	21.28	21.37	21.24	21.35		
5	16QAM	1	0	21.47	21.57	21.44	21.53		
5	16QAM	1	12	21.42	21.46	21.36	21.41	23	1
5	16QAM	1	24	21.26	21.39	21.31	21.30		
5	16QAM	12	0	20.35	20.46	20.46	20.40		
5	16QAM	12	7	20.31	20.37	20.31	20.28		
5	16QAM	12	13	20.38	20.36	20.27	20.27	22	2
5	16QAM	25	0	20.19	20.33	20.29	20.25		
5	64QAM	1	0	20.46	20.58	20.49	20.43		
5	64QAM	1	12	20.32	20.44	20.37	20.39		
5	64QAM	1	24	20.31	20.34	20.31	20.30	22	2
5	64QAM	12	0	19.31	19.47	19.39	19.39		
5	64QAM	12	7	19.31	19.37	19.35	19.38		
5	64QAM	12	13	19.32	19.34	19.32	19.31		
5	64QAM	25	0	19.24	19.37	19.28	19.22	21	3
5	256QAM	1	0	17.64	17.63	17.62	17.57		
5	256QAM	1	12	17.47	17.57	17.56	17.51		
5	256QAM	1	24	17.61	17.54	17.55	17.55		
5	256QAM	12	0	17.61	17.63	17.56	17.58	19	5
5	256QAM	12	7	17.58	17.56	17.48	17.54		
5	256QAM	12	13	17.56	17.61	17.55	17.51		
5	256QAM	25	0	17.50	17.47	17.57	17.48		





### Band 48 Ant4 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	22.41	22.58	22.42	22.56	24	0
20	QPSK	1	49	22.35	22.49	22.48	22.38		
20	QPSK	1	99	22.40	22.42	22.40	22.30		
20	QPSK	50	0	21.39	21.49	21.43	21.37		
20	QPSK	50	24	21.43	21.46	21.34	21.36	23	1
20	QPSK	50	50	21.42	21.42	21.41	21.39		
20	QPSK	100	0	21.39	21.49	21.47	21.43	23	1
20	16QAM	1	0	21.54	21.57	21.53	21.54		
20	16QAM	1	49	21.35	21.49	21.49	21.37		
20	16QAM	1	99	21.41	21.46	21.35	21.38		
20	16QAM	50	0	20.39	20.51	20.44	20.51	22	2
20	16QAM	50	24	20.50	20.53	20.50	20.48		
20	16QAM	50	50	20.35	20.45	20.44	20.41		
20	16QAM	100	0	20.36	20.50	20.46	20.48		
20	64QAM	1	0	20.44	20.53	20.38	20.42	22	2
20	64QAM	1	49	20.49	20.51	20.41	20.37		
20	64QAM	1	99	20.32	20.42	20.40	20.27		
20	64QAM	50	0	19.42	19.47	19.43	19.44		
20	64QAM	50	24	19.39	19.51	19.50	19.50	21	3
20	64QAM	50	50	19.36	19.44	19.31	19.43		
20	64QAM	100	0	19.45	19.59	19.45	19.49		
20	256QAM	1	0	17.57	17.57	17.57	17.56		
20	256QAM	1	49	17.50	17.47	17.45	17.51	19	5
20	256QAM	1	99	17.50	17.56	17.51	17.52		
20	256QAM	50	0	17.52	17.51	17.49	17.60		
20	256QAM	50	24	17.50	17.48	17.49	17.49		
20	256QAM	50	50	17.52	17.49	17.48	17.46	19	5
20	256QAM	100	0	17.45	17.42	17.51	17.50		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	22.40	22.54	22.39	22.46	24	0
15	QPSK	1	37	22.32	22.47	22.43	22.36		
15	QPSK	1	74	22.35	22.31	22.36	22.28		
15	QPSK	36	0	21.32	21.37	21.40	21.35		
15	QPSK	36	20	21.28	21.37	21.20	21.24	23	1
15	QPSK	36	39	21.29	21.39	21.31	21.37		
15	QPSK	75	0	21.26	21.43	21.33	21.42		
15	16QAM	1	0	21.41	21.46	21.51	21.52		
15	16QAM	1	37	21.25	21.44	21.44	21.26	23	1
15	16QAM	1	74	21.41	21.42	21.28	21.27		
15	16QAM	36	0	20.25	20.38	20.34	20.42		
15	16QAM	36	20	20.48	20.45	20.48	20.41		
15	16QAM	36	39	20.30	20.32	20.35	20.37	22	2
15	16QAM	75	0	20.26	20.44	20.33	20.38		
15	64QAM	1	0	20.36	20.46	20.37	20.34		
15	64QAM	1	37	20.34	20.40	20.34	20.26		
15	64QAM	1	74	20.23	20.33	20.36	20.12	22	2
15	64QAM	36	0	19.38	19.41	19.39	19.31		
15	64QAM	36	20	19.27	19.37	19.39	19.47		
15	64QAM	36	39	19.31	19.43	19.27	19.39		
15	64QAM	75	0	19.32	19.52	19.39	19.44	21	3
15	256QAM	1	0	17.58	17.58	17.56	17.52		
15	256QAM	1	37	17.52	17.43	17.45	17.52		
15	256QAM	1	74	17.46	17.47	17.48	17.53		
15	256QAM	36	0	17.58	17.59	17.49	17.59	19	5
15	256QAM	36	20	17.49	17.46	17.43	17.45		
15	256QAM	36	39	17.50	17.57	17.49	17.55		
15	256QAM	75	0	17.46	17.50	17.50	17.46		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	22.38	22.49	22.32	22.55	24	0
10	QPSK	1	25	22.33	22.45	22.46	22.26		
10	QPSK	1	49	22.31	22.29	22.26	22.27		
10	QPSK	25	0	21.29	21.39	21.37	21.37		
10	QPSK	25	12	21.42	21.34	21.23	21.27	23	1
10	QPSK	25	25	21.30	21.38	21.27	21.33		
10	QPSK	50	0	21.32	21.47	21.40	21.36		
10	16QAM	1	0	21.49	21.43	21.47	21.46		
10	16QAM	1	25	21.31	21.37	21.40	21.35	23	1
10	16QAM	1	49	21.35	21.37	21.23	21.25		
10	16QAM	25	0	20.31	20.41	20.41	20.38		
10	16QAM	25	12	20.47	20.38	20.36	20.46		
10	16QAM	25	25	20.24	20.44	20.41	20.39	22	2
10	16QAM	50	0	20.23	20.39	20.34	20.42		
10	64QAM	1	0	20.34	20.49	20.37	20.31		
10	64QAM	1	25	20.37	20.40	20.39	20.25		
10	64QAM	1	49	20.18	20.36	20.26	20.13	22	2
10	64QAM	25	0	19.31	19.34	19.36	19.36		
10	64QAM	25	12	19.33	19.48	19.36	19.43		
10	64QAM	25	25	19.30	19.41	19.30	19.30		
10	64QAM	50	0	19.37	19.49	19.39	19.34	21	3
10	256QAM	1	0	17.56	17.51	17.61	17.55		
10	256QAM	1	25	17.44	17.48	17.50	17.49		
10	256QAM	1	49	17.52	17.47	17.56	17.48		
10	256QAM	25	0	17.59	17.48	17.55	17.49	19	5
10	256QAM	25	12	17.42	17.51	17.54	17.53		
10	256QAM	25	25	17.50	17.50	17.47	17.46		
10	256QAM	50	0	17.43	17.42	17.41	17.41		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	22.40	22.46	22.36	22.52	24	0
5	QPSK	1	12	22.22	22.48	22.43	22.29		
5	QPSK	1	24	22.38	22.31	22.35	22.27		
5	QPSK	12	0	21.33	21.43	21.41	21.24		
5	QPSK	12	7	21.32	21.44	21.28	21.35	23	1
5	QPSK	12	13	21.27	21.41	21.31	21.29		
5	QPSK	25	0	21.28	21.37	21.38	21.35		
5	16QAM	1	0	21.46	21.46	21.40	21.48		
5	16QAM	1	12	21.32	21.41	21.41	21.28	23	1
5	16QAM	1	24	21.38	21.35	21.31	21.25		
5	16QAM	12	0	20.35	20.40	20.35	20.42		
5	16QAM	12	7	20.47	20.39	20.47	20.35		
5	16QAM	12	13	20.27	20.38	20.34	20.27	22	2
5	16QAM	25	0	20.32	20.38	20.39	20.48		
5	64QAM	1	0	20.39	20.52	20.37	20.34		
5	64QAM	1	12	20.38	20.37	20.34	20.24		
5	64QAM	1	24	20.20	20.39	20.27	20.14	22	2
5	64QAM	12	0	19.30	19.37	19.28	19.37		
5	64QAM	12	7	19.39	19.50	19.46	19.40		
5	64QAM	12	13	19.25	19.43	19.23	19.33		
5	64QAM	25	0	19.37	19.49	19.37	19.44	21	3
5	256QAM	1	0	17.54	17.51	17.51	17.53		
5	256QAM	1	12	17.41	17.49	17.41	17.47		
5	256QAM	1	24	17.48	17.51	17.55	17.55		
5	256QAM	12	0	17.50	17.56	17.50	17.57	19	5
5	256QAM	12	7	17.46	17.43	17.45	17.43		
5	256QAM	12	13	17.56	17.55	17.48	17.54		
5	256QAM	25	0	17.45	17.43	17.42	17.48		



### Band 48 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.84	21.92	21.82	21.76	23.3	0
20	QPSK	1	49	21.78	21.90	21.85	21.71		
20	QPSK	1	99	21.77	21.83	21.69	21.75		
20	QPSK	50	0	20.88	20.97	20.85	20.83		
20	QPSK	50	24	20.76	20.88	20.78	20.72	22.3	1
20	QPSK	50	50	20.77	20.86	20.73	20.67		
20	QPSK	100	0	20.87	20.94	20.88	20.82		
20	QPSK	1	0	20.95	21.06	21.03	20.95		
20	16QAM	1	49	20.82	20.92	20.86	20.77	22.3	1
20	16QAM	1	99	20.86	20.94	20.81	20.77		
20	16QAM	50	0	19.93	20.05	19.92	19.92		
20	16QAM	50	24	19.94	20.03	19.91	19.86		
20	16QAM	50	50	19.94	19.97	19.91	19.80	21.3	2
20	16QAM	100	0	20.03	20.07	19.99	19.89		
20	64QAM	1	0	19.82	19.94	19.80	19.78		
20	64QAM	1	49	19.86	19.92	19.83	19.77		
20	64QAM	1	99	19.76	19.81	19.73	19.67	21.3	2
20	64QAM	50	0	19.00	19.04	18.92	18.85		
20	64QAM	50	24	18.82	18.88	18.78	18.74		
20	64QAM	50	50	18.82	19.00	18.96	18.91		
20	64QAM	100	0	19.06	19.11	18.98	19.01	20.3	3
20	256QAM	1	0	16.95	16.84	16.92	16.90		
20	256QAM	1	49	16.80	16.87	16.82	16.85		
20	256QAM	1	99	16.83	16.72	16.78	16.87		
20	256QAM	50	0	16.94	16.83	16.82	16.85	18.3	5
20	256QAM	50	24	16.78	16.88	16.82	16.85		
20	256QAM	50	50	16.90	16.71	16.78	16.92		
20	256QAM	100	0	16.85	16.75	16.76	16.83		
Channel				55315	55820	56180	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.71	21.81	21.79	21.69	23.3	0
15	QPSK	1	37	21.66	21.78	21.81	21.64		
15	QPSK	1	74	21.68	21.75	21.58	21.64		
15	QPSK	36	0	20.74	20.91	20.77	20.75		
15	QPSK	36	20	20.69	20.78	20.68	20.61	22.3	1
15	QPSK	36	39	20.67	20.77	20.66	20.54		
15	QPSK	75	0	20.83	20.84	20.80	20.74		
15	16QAM	1	0	20.86	20.92	20.95	20.89		
15	16QAM	1	37	20.74	20.80	20.74	20.66	22.3	1
15	16QAM	1	74	20.83	20.83	20.70	20.63		
15	16QAM	36	0	19.88	19.93	19.85	19.79		
15	16QAM	36	20	19.87	19.89	19.81	19.81		
15	16QAM	36	39	19.88	19.91	19.80	19.65	21.3	2
15	16QAM	75	0	19.99	20.00	19.90	19.76		
15	64QAM	1	0	19.77	19.86	19.73	19.68		
15	64QAM	1	37	19.76	19.85	19.75	19.71		
15	64QAM	1	74	19.64	19.69	19.65	19.54	21.3	2
15	64QAM	36	0	18.89	19.00	18.85	18.70		
15	64QAM	36	20	18.71	18.79	18.74	18.61		
15	64QAM	36	39	18.80	18.88	18.91	18.80		
15	64QAM	75	0	19.01	18.98	18.89	18.91	20.3	3
15	256QAM	1	0	16.86	16.85	16.84	16.89		
15	256QAM	1	37	16.78	16.71	16.71	16.85		
15	256QAM	1	74	16.80	16.73	16.79	16.84		
15	256QAM	36	0	16.94	16.74	16.87	16.87	18.3	5
15	256QAM	36	20	16.96	16.71	16.75	16.80		
15	256QAM	36	39	16.91	16.76	16.87	16.89		
15	256QAM	75	0	16.85	16.68	16.71	16.77		
Channel				55300	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.75	21.88	21.78	21.71	23.3	0
10	QPSK	1	25	21.71	21.79	21.73	21.62		
10	QPSK	1	49	21.73	21.79	21.56	21.63		
10	QPSK	25	0	20.76	20.83	20.73	20.73		
10	QPSK	25	12	20.73	20.75	20.70	20.60	22.3	1
10	QPSK	25	25	20.65	20.72	20.61	20.52		
10	QPSK	50	0	20.80	20.79	20.73	20.78		
10	16QAM	1	0	20.80	20.98	20.99	20.84		
10	16QAM	1	25	20.70	20.80	20.73	20.70	22.3	1
10	16QAM	1	49	20.80	20.80	20.66	20.68		
10	16QAM	25	0	19.81	19.91	19.79	19.78		
10	16QAM	25	12	19.91	19.92	19.82	19.82		
10	16QAM	25	25	19.87	19.91	19.81	19.68	21.3	2
10	16QAM	50	0	19.98	19.97	19.95	19.84		
10	64QAM	1	0	19.70	19.85	19.73	19.74		
10	64QAM	1	25	19.76	19.78	19.70	19.67		
10	64QAM	1	49	19.70	19.69	19.66	19.54	21.3	2
10	64QAM	25	0	18.94	18.92	18.81	18.76		
10	64QAM	25	12	18.69	18.75	18.71	18.66		
10	64QAM	25	25	18.84	18.94	18.91	18.83		
10	64QAM	50	0	18.93	18.96	18.89	18.94	20.3	3
10	256QAM	1	0	16.90	16.81	16.87	16.95		
10	256QAM	1	25	16.80	16.66	16.78	16.75		
10	256QAM	1	49	16.91	16.72	16.86	16.83		
10	256QAM	25	0	16.86	16.81	16.86	16.91	18.3	5
10	256QAM	25	12	16.87	16.77	16.83	16.83		
10	256QAM	25	25	16.83	16.82	16.77	16.93		
10	256QAM	50	0	16.82	16.65	16.73	16.78		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.79	21.83	21.79	21.66	23.3	0
5	QPSK	1	12	21.72	21.83	21.72	21.61		
5	QPSK	1	24	21.71	21.69	21.55	21.65		
5	QPSK	12	0	20.81	20.82	20.76	20.69		
5	QPSK	12	7	20.67	20.81	20.69	20.69	22.3	1
5	QPSK	12	13	20.70	20.72	20.66	20.56		
5	QPSK	25	0	20.79	20.90	20.80	20.70		
5	16QAM	1	0	20.89	21.01	20.99	20.91		
5	16QAM	1	12	20.71	20.79	20.81	20.67	22.3	1
5	16QAM	1	24	20.72	20.79	20.77	20.70		
5	16QAM	12	0	19.83	19.99	19.87	19.79		
5	16QAM	12	7	19.82	19.99	19.85	19.77		
5	16QAM	12	13	19.82	19.91	19.79	19.71	21.3	2
5	16QAM	25	0	19.89	19.95	19.87	19.75		
5	64QAM	1	0	19.73	19.82	19.77	19.64		
5	64QAM	1	12	19.77	19.88	19.79	19.71		
5	64QAM	1	24	19.64	19.72	19.68	19.61	21.3	2
5	64QAM	12	0	18.93	18.92	18.79	18.81		
5	64QAM	12	7	18.69	18.81	18.73	18.66		
5	64QAM	12	13	18.78	18.95	18.81	18.83		
5	64QAM	25	0	18.92	19.06	18.85	18.95	20.3	3
5	256QAM	1	0	16.90	16.82	16.88	16.93		
5	256QAM	1	12	16.86	16.68	16.73	16.82		
5	256QAM	1	24	16.89	16.82	16.83	16.85		
5	256QAM	12	0	16.90	16.75	16.88	16.89	18.3	5
5	256QAM	12	7	16.82	16.70	16.75	16.80		
5	256QAM	12	13	16.83	16.76	16.88	16.85		
5	256QAM	25	0	16.78	16.71	16.78	16.77		



### Band 48 Ant8 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.44	21.76	21.69	21.70	23.1	0
20	QPSK	1	49	21.59	21.70	21.66	21.67		
20	QPSK	1	99	21.54	21.62	21.58	21.53		
20	QPSK	50	0	20.75	20.82	20.69	20.76		
20	QPSK	50	24	20.60	20.74	20.68	20.69	22.1	1
20	QPSK	50	50	20.58	20.63	20.60	20.60		
20	QPSK	100	0	20.55	20.67	20.60	20.61		
20	QPSK	1	0	20.78	20.85	20.78	20.82		
20	16QAM	1	49	20.70	20.79	20.72	20.75	22.1	1
20	16QAM	1	99	20.56	20.70	20.65	20.63		
20	16QAM	50	0	19.65	19.71	19.57	19.60		
20	16QAM	50	24	19.48	19.62	19.49	19.56		
20	16QAM	50	50	19.64	19.67	19.52	19.63	21.1	2
20	16QAM	100	0	19.64	19.71	19.60	19.63		
20	64QAM	1	0	19.66	19.78	19.69	19.74		
20	64QAM	1	49	19.72	19.79	19.66	19.75		
20	64QAM	1	99	19.58	19.72	19.62	19.62	21.1	2
20	64QAM	50	0	18.71	18.80	18.65	18.69		
20	64QAM	50	24	18.65	18.73	18.58	18.68		
20	64QAM	50	50	18.71	18.76	18.72	18.65		
20	64QAM	100	0	18.45	18.53	18.46	18.42	20.1	3
20	256QAM	1	0	16.70	16.64	16.68	16.76		
20	256QAM	1	49	16.57	16.52	16.51	16.53		
20	256QAM	1	99	16.71	16.80	16.63	16.72		
20	256QAM	50	0	16.72	16.53	16.65	16.66	18.1	5
20	256QAM	50	24	16.68	16.50	16.56	16.68		
20	256QAM	50	50	16.70	16.55	16.62	16.72		
20	256QAM	100	0	16.57	16.51	16.53	16.58		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	21.31	21.66	21.64	21.61	23.1	0
15	QPSK	1	37	21.48	21.56	21.62	21.57		
15	QPSK	1	74	21.47	21.54	21.53	21.39		
15	QPSK	36	0	20.65	20.79	20.59	20.64		
15	QPSK	36	20	20.46	20.62	20.54	20.62	22.1	1
15	QPSK	36	39	20.53	20.57	20.49	20.54		
15	QPSK	75	0	20.45	20.58	20.47	20.46		
15	16QAM	1	0	20.74	20.73	20.67	20.75		
15	16QAM	1	37	20.62	20.64	20.64	20.65	22.1	1
15	16QAM	1	74	20.53	20.57	20.62	20.49		
15	16QAM	36	0	19.55	19.57	19.51	19.52		
15	16QAM	36	20	19.35	19.47	19.37	19.47		
15	16QAM	36	39	19.53	19.60	19.42	19.58	21.1	2
15	16QAM	75	0	19.54	19.67	19.46	19.51		
15	64QAM	1	0	19.55	19.68	19.59	19.66		
15	64QAM	1	37	19.64	19.69	19.61	19.65		
15	64QAM	1	74	19.50	19.64	19.52	19.53	20.1	3
15	64QAM	36	0	18.63	18.70	18.56	18.56		
15	64QAM	36	20	18.56	18.68	18.51	18.63		
15	64QAM	36	39	18.56	18.64	18.66	18.57		
15	64QAM	75	0	18.36	18.40	18.42	18.38	18.1	5
15	256QAM	1	0	16.65	16.65	16.62	16.71		
15	256QAM	1	37	16.65	16.66	16.60	16.68		
15	256QAM	1	74	16.65	16.57	16.58	16.72		
15	256QAM	36	0	16.73	16.60	16.67	16.67	18.1	5
15	256QAM	36	20	16.62	16.54	16.60	16.60		
15	256QAM	36	39	16.69	16.59	16.63	16.61		
15	256QAM	75	0	16.55	16.51	16.55	16.61		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.36	21.66	21.58	21.60	23.1	0
10	QPSK	1	25	21.51	21.59	21.62	21.57		
10	QPSK	1	49	21.45	21.54	21.50	21.40		
10	QPSK	25	0	20.66	20.76	20.62	20.66		
10	QPSK	25	12	20.51	20.62	20.57	20.55	22.1	1
10	QPSK	25	25	20.51	20.53	20.52	20.57		
10	QPSK	50	0	20.47	20.54	20.48	20.47		
10	16QAM	1	0	20.65	20.72	20.72	20.67		
10	16QAM	1	25	20.64	20.67	20.67	20.69	22.1	1
10	16QAM	1	49	20.43	20.65	20.60	20.48		
10	16QAM	25	0	19.53	19.66	19.45	19.47		
10	16QAM	25	12	19.39	19.58	19.45	19.52		
10	16QAM	25	25	19.55	19.61	19.41	19.52	21.1	2
10	16QAM	50	0	19.49	19.63	19.52	19.55		
10	64QAM	1	0	19.62	19.67	19.57	19.64		
10	64QAM	1	25	19.65	19.70	19.52	19.66		
10	64QAM	1	49	19.55	19.64	19.55	19.50	20.1	3
10	64QAM	25	0	18.62	18.71	18.53	18.66		
10	64QAM	25	12	18.62	18.60	18.54	18.62		
10	64QAM	25	25	18.63	18.65	18.61	18.59		
10	64QAM	50	0	18.35	18.43	18.40	18.28	18.1	5
10	256QAM	1	0	16.72	16.59	16.62	16.76		
10	256QAM	1	25	16.59	16.48	16.58	16.62		
10	256QAM	1	49	16.64	16.52	16.64	16.68		
10	256QAM	25	0	16.67	16.54	16.66	16.70	18.1	5
10	256QAM	25	12	16.68	16.55	16.61	16.63		
10	256QAM	25	25	16.67	16.53	16.60	16.71		
10	256QAM	50	0	16.65	16.54	16.51	16.58		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.29	21.62	21.66	21.62	23.1	0
5	QPSK	1	12	21.52	21.55	21.55	21.58		
5	QPSK	1	24	21.46	21.52	21.48	21.40		
5	QPSK	12	0	20.63	20.68	20.63	20.65		
5	QPSK	12	7	20.55	20.70	20.63	20.61	22.1	1
5	QPSK	12	13	20.54	20.57	20.57	20.45		
5	QPSK	25	0	20.42	20.57	20.46	20.57		
5	16QAM	1	0	20.75	20.70	20.64	20.69		
5	16QAM	1	12	20.59	20.68	20.63	20.69	22.1	1
5	16QAM	1	24	20.53	20.66	20.54	20.49		
5	16QAM	12	0	19.57	19.63	19.50	19.55		
5	16QAM	12	7	19.43	19.52	19.42	19.49		
5	16QAM	12	13	19.56	19.53	19.47	19.49	21.1	2
5	16QAM	25	0	19.51	19.56	19.56	19.50		
5	64QAM	1	0	19.52	19.65	19.56	19.67		
5	64QAM	1	12	19.63	19.73	19.57	19.70		
5	64QAM	1	24	19.44	19.68	19.54	19.55	20.1	3
5	64QAM	12	0	18.57	18.76	18.51	18.63		
5	64QAM	12	7	18.60	18.63	18.54	18.63		
5	64QAM	12	13	18.64	18.72	18.62	18.52		
5	64QAM	25	0	18.32	18.40	18.32	18.37	18.1	5
5	256QAM	1	0	16.74	16.66	16.64	16.68		
5	256QAM	1	12	16.61	16.46	16.57	16.65		
5	256QAM	1	24	16.67	16.58	16.58	16.69		
5	256QAM	12	0	16.71	16.57	16.68	16.74	18.1	5
5	256QAM	12	7	16.67	16.50	16.61	16.65		
5	256QAM	12	13	16.72	16.57	16.64	16.72		
5	256QAM	25	0	16.66	16.53	16.58	16.62		





## Reduced Power Level for WWAN ECI2

GSM850 Ant0 ECI2								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	661	310		512	661	810	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	32.30	32.74	32.52	33.50	23.30	23.74	23.52	24.50
GSM 1 Tx slot	32.24	32.73	32.47	33.50	23.24	23.73	23.47	24.50
GPRS 1 Tx slots	31.23	31.57	31.62	32.50	25.23	25.57	25.62	26.50
GPRS 3 Tx slots	29.51	29.78	29.84	31.50	25.25	25.52	25.58	27.24
GPRS 4 Tx slots	28.50	28.79	28.55	30.50	25.50	25.79	25.55	27.50
EDGE 1 Tx slot	26.60	26.81	26.97	27.50	17.60	17.81	17.97	19.50
EDGE 2 Tx slots	25.55	25.59	25.86	27.00	19.55	19.59	19.86	21.00
EDGE 3 Tx slots	23.12	23.26	23.36	24.50	18.86	19.00	19.10	20.24
EDGE 4 Tx slots	22.08	22.10	22.27	23.00	19.08	19.10	19.27	20.00

GSM1900 Ant0 ECI2								
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)	28.96	29.07	29.00	30.50	19.96	20.07	20.00	21.50
GSM 1 Tx slot	28.93	29.06	28.98	30.50	19.93	20.06	19.98	21.50
GPRS 1 Tx slots	28.43	28.30	28.36	30.00	22.43	22.30	22.36	24.00
GPRS 3 Tx slots	26.68	26.82	26.75	28.50	22.42	22.56	22.49	24.24
GPRS 4 Tx slots	25.57	25.71	25.65	27.50	22.57	22.71	22.65	24.50
EDGE 1 Tx slot	23.89	23.95	23.97	26.50	16.89	16.95	16.97	17.50
EDGE 2 Tx slots	24.76	24.82	24.84	25.50	18.76	18.82	18.84	19.50
EDGE 3 Tx slots	22.58	22.61	22.63	23.50	18.32	18.35	18.37	19.24
EDGE 4 Tx slots	21.28	21.34	21.41	22.50	18.28	18.34	18.41	19.50

Band	WCDMA II Ant0 ECI2			Tune-up Limit (dBm)	WCDMA V Ant0 ECI2			Tune-up Limit (dBm)	
	WCDMA II				WCDMA V				
TX Channel	9262	9400	9538		4132	4182	4233		
Rx Channel	9662	9800	9938		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.88	22.93	22.78	24.00	22.92	23.10	23.05	24.00
3GPP Rel 99	RMC 12.2Kbps	23.02	23.06	22.96	24.00	23.09	23.24	23.22	24.00
3GPP Rel 6	HSDPA Subtest-1	22.23	22.11	22.14	23.00	22.35	22.26	22.29	23.00
3GPP Rel 6	HSDPA Subtest-2	22.29	22.25	22.12	23.00	22.29	22.37	22.26	23.00
3GPP Rel 6	HSDPA Subtest-3	21.83	21.65	21.64	22.50	22.05	21.83	21.86	22.50
3GPP Rel 6	HSDPA Subtest-4	21.82	21.69	21.71	22.50	22.02	21.91	21.87	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.07	22.14	21.98	23.00	22.26	22.35	22.16	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.98	22.29	22.07	23.00	22.17	22.50	22.30	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.62	21.71	21.47	22.50	21.80	21.88	21.67	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.50	21.86	21.70	22.50	21.62	22.04	21.92	22.50
3GPP Rel 6	HSUPA Subtest-1	22.24	22.07	22.19	23.00	22.45	22.31	22.36	23.00
3GPP Rel 6	HSUPA Subtest-2	23.23	23.26	23.15	21.00	23.45	23.49	23.27	21.00
3GPP Rel 6	HSUPA Subtest-3	21.23	21.22	21.11	22.00	21.37	21.37	21.23	22.00
3GPP Rel 6	HSUPA Subtest-4	20.29	20.24	20.09	21.00	20.47	20.39	20.27	21.00
3GPP Rel 6	HSUPA Subtest-5	22.25	22.31	22.14	23.00	22.45	22.45	22.35	23.00



Band 2 Ant0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Ch./F.Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.81	22.62	22.56				
20	QPSK	1	49	22.82	22.63	22.57			24	0
20	QPSK	1	99	22.83	22.64	22.58				
20	QPSK	50	0	21.79	21.62	21.68				
20	QPSK	50	24	21.78	21.61	21.67				
20	QPSK	50	50	21.86	21.74	21.88			23	1
20	QPSK	100	0	21.87	21.75	21.71				
20	QPSK	100	24	21.83	21.67	21.63				
20	16QAM	1	49	21.48	21.59	21.49			23	1
20	16QAM	1	99	21.47	21.62	21.57				
20	16QAM	50	0	20.46	20.51	20.58				
20	16QAM	50	24	20.46	20.54	20.57			22	2
20	16QAM	50	50	20.46	20.54	20.67				
20	16QAM	100	0	20.52	20.51	20.66				
20	64QAM	1	0	20.63	20.71	20.67				
20	64QAM	1	49	20.52	20.66	20.59			22	2
20	64QAM	50	0	19.56	19.60	19.67				
20	64QAM	50	24	19.56	19.62	19.64				
20	64QAM	50	50	19.42	19.55	19.49			21	3
20	64QAM	100	0	19.55	19.69	19.63				
Channel										
Frequency (MHz)										
16	QPSK	1	0	22.92	22.68	22.43				
16	QPSK	1	37	22.93	22.48	22.38			24	0
16	QPSK	1	74	22.94	22.49	22.41				
16	QPSK	36	0	21.65	21.78	21.83				
16	QPSK	36	20	21.65	21.70	21.59			23	1
16	QPSK	36	40	21.65	21.69	21.68				
16	QPSK	75	0	21.57	21.66	21.66				
16	16QAM	1	0	21.54	21.60	21.40				
16	16QAM	1	36	21.56	21.61	21.53			23	1
16	16QAM	1	74	21.53	21.56	21.51				
16	16QAM	36	0	20.39	20.51	20.45				
16	16QAM	36	20	20.39	20.51	20.41				
16	16QAM	36	39	20.39	20.54	20.38			22	2
16	16QAM	75	0	20.43	20.55	20.44				
16	16QAM	75	0	20.48	20.61	20.55				
16	64QAM	1	37	20.49	20.55	20.52			22	2
16	64QAM	1	74	20.49	20.56	20.44				
16	64QAM	36	0	19.50	19.49	19.39				
16	64QAM	36	20	19.31	19.47	19.33			21	3
16	64QAM	36	40	19.43	19.55	19.44				
16	64QAM	75	0	19.43	19.50	19.51				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.48	22.50	22.51				
10	QPSK	1	25	22.37	22.40	22.34			24	0
10	QPSK	1	49	22.29	22.40	22.39				
10	QPSK	25	0	21.71	21.69	21.68				
10	QPSK	25	12	21.70	21.69	21.68			23	1
10	QPSK	25	25	21.51	21.59	21.58				
10	QPSK	50	0	21.84	21.69	21.68				
10	16QAM	1	0	21.59	21.56	21.42				
10	16QAM	1	25	21.59	21.46	21.41			23	1
10	16QAM	25	0	20.42	20.56	20.47				
10	16QAM	25	12	20.36	20.48	20.59			22	2
10	16QAM	25	25	20.48	20.56	20.38				
10	16QAM	50	0	20.47	20.62	20.51				
10	16QAM	50	12	20.42	20.61	20.44			22	2
10	16QAM	50	25	20.42	20.55	20.48				
10	64QAM	1	49	20.41	20.48	20.46			22	2
10	64QAM	1	49	20.42	20.53	20.46				
10	64QAM	25	12	19.38	19.43	19.38			21	3
10	64QAM	25	25	19.33	19.49	19.35				
10	64QAM	50	0	19.43	19.50	19.51				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.33	22.49	22.31				
5	QPSK	1	12	22.36	22.48	22.32			24	0
5	QPSK	1	24	22.37	22.43	22.39				
5	QPSK	12	0	21.72	21.71	21.68				
5	QPSK	12	6	21.64	21.65	21.59			23	1
5	QPSK	12	13	21.59	21.68	21.54				
5	QPSK	25	0	21.59	21.70	21.58				
5	16QAM	1	0	21.50	21.61	21.49			23	1
5	16QAM	1	12	21.41	21.49	21.46				
5	16QAM	1	24	21.36	21.46	21.42				
5	16QAM	12	0	20.42	20.56	20.37			22	2
5	16QAM	12	6	20.42	20.43	20.29				
5	16QAM	12	13	20.42	20.53	20.44				
5	16QAM	25	0	20.52	20.59	20.57				
5	64QAM	1	0	20.51	20.65	20.55			22	2
5	64QAM	1	12	20.46	20.60	20.48				
5	64QAM	1	24	20.45	20.54	20.46				
5	64QAM	12	0	19.42	19.53	19.33			21	3
5	64QAM	12	6	19.42	19.48	19.44				
5	64QAM	12	13	19.38	19.43	19.38				
5	64QAM	25	0	19.40	19.63	19.56				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.50	22.52	22.46				
3	QPSK	1	8	22.47	22.47	22.37			24	0
3	QPSK	1	16	22.31	22.45	22.38				
3	QPSK	8	0	21.66	21.72	21.68				
3	QPSK	8	4	21.63	21.71	21.58			23	1
3	QPSK	8	8	21.62	21.62	21.58				
3	QPSK	15	0	21.60	21.72	21.58				
3	16QAM	1	0	21.59	21.66	21.42				
3	16QAM	1	8	21.44	21.52	21.36			23	1
3	16QAM	1	14	21.43	21.51	21.49				
3	16QAM	8	0	20.46	20.60	20.44				
3	16QAM	8	4	20.36	20.37	20.34			22	2
3	16QAM	8	7	20.40	20.52	20.34				
3	16QAM	15	0	20.53	20.69	20.52				
3	64QAM	1	0	20.51	20.62	20.59			22	2
3	64QAM	1	8	20.42	20.55	20.46				
3	64QAM	8	0	19.47	19.54	19.44				
3	64QAM	8	4	19.38	19.46	19.40			21	3
3	64QAM	8	7	19.40	19.43	19.45				
3	64QAM	15	0	19.43	19.50	19.50				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.57	22.49	22.50				
1.4	QPSK	1	3	22.37	22.46	22.35			24	0
1.4	QPSK	1	6	22.36	22.46	22.31				
1.4	QPSK	3	0	22.34	22.53	22.38				
1.4	QPSK	3	1	22.41	22.53	22.32				
1.4	QPSK	3	3	22.34	22.49	22.41				
1.4	QPSK	6	0	21.65	21.69	21.57			23	1
1.4	16QAM	1	0	21.59	21.53	21.46				
1.4	16QAM	1	3	21.52	21.50	21.46				
1.4	16QAM	1	6	21.33	21.58	21.42			23	1
1.4	16QAM	3	0	21.40	21.54	21.39				
1.4	16QAM	3	1	21.41	21.38	21.34				
1.4	16QAM	3	3	21.42	21.49	21.37				
1.4	16QAM	6	0	20.63	20.62	20.51			22	2
1.4	16QAM	6	3	20.58	20.63	20.57				
1.4	64QAM	1	0	20.40	20.51	20.49				
1.4	64QAM	1	3	20.40	20.65	20.39			22	2
1.4	64QAM	3	0	20.50	20.47	20.41				
1.4	64QAM	3	1	20.34	20.49	20.32				
1.4	64QAM	3	3	20.40	20.52	20.40				
1.4	64QAM	6	0	19.46	19.50	19.57			21	3

Band 4 Ant0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./F.Freq.	Power Ch./F.Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.41	22.54	22.46				
20	QPSK	1	49	22.43	22.43	22				



Band 12 Ant0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power High Ch./F.Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.77	22.73	24	0		
10	QPSK	1	25	22.64	22.68	22.58				
10	QPSK	1	49	22.51	22.63	22.56				
10	QPSK	25	0	21.96	21.66	21.52				
10	QPSK	25	12	21.84	21.63	21.53				
10	QPSK	25	25	21.52	21.60	21.50	23	1		
10	QPSK	50	0	21.96	21.66	21.57				
10	QPSK	50	0	21.92	21.66	21.61				
10	16QAM	1	25	21.47	21.53	21.48	23	1		
10	16QAM	1	49	21.48	21.57	21.51				
10	16QAM	1	73	20.99	20.99	20.97				
10	16QAM	25	12	20.39	20.51	20.44	22	2		
10	16QAM	25	25	20.51	20.57	20.51				
10	16QAM	50	0	20.59	20.54	20.51				
10	16QAM	1	0	20.59	20.59	20.55				
10	16QAM	1	25	20.53	20.50	20.44	22	2		
10	16QAM	1	49	20.53	20.60	20.49				
10	16QAM	25	0	19.54	19.58	19.47				
10	16QAM	25	12	19.41	19.52	19.44	21	3		
10	16QAM	25	25	19.29	19.58	19.53				
10	16QAM	50	0	19.38	19.51	19.45				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.59	22.71	22.67				
5	QPSK	1	12	22.54	22.60	22.45	24	0		
5	QPSK	1	25	22.48	22.53	22.50				
5	QPSK	12	0	21.48	21.62	21.48				
5	QPSK	12	7	21.47	21.57	21.44	23	1		
5	QPSK	12	14	21.44	21.48	21.47				
5	QPSK	25	0	21.42	21.54	21.52				
5	16QAM	1	0	21.41	21.38	21.48				
5	16QAM	1	24	21.33	21.41	21.43	23	1		
5	16QAM	1	24	21.34	21.49	21.43				
5	16QAM	12	0	20.41	20.46	20.43				
5	16QAM	12	7	20.33	20.43	20.34	22	2		
5	16QAM	12	14	20.40	20.48	20.37				
5	16QAM	25	0	20.41	20.42	20.37				
5	16QAM	1	0	20.58	20.62	20.50				
5	16QAM	1	12	20.49	20.46	20.30	22	2		
5	16QAM	1	24	20.33	20.44	20.40				
5	16QAM	12	0	19.43	19.52	19.37				
5	16QAM	12	7	19.32	19.37	19.40	21	3		
5	16QAM	12	14	19.29	19.38	19.41				
5	16QAM	25	0	19.33	19.38	19.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.58	22.70	22.63	24	0		
3	QPSK	1	8	22.53	22.60	22.52				
3	QPSK	1	14	22.40	22.52	22.48				
3	QPSK	8	0	21.92	21.56	21.47				
3	QPSK	8	4	21.50	21.59	21.44	23	1		
3	QPSK	8	7	21.48	21.55	21.44				
3	QPSK	15	0	21.45	21.56	21.43				
3	16QAM	1	0	21.39	21.63	21.51				
3	16QAM	1	8	21.48	21.36	21.41	23	1		
3	16QAM	1	16	21.42	21.50	21.42				
3	16QAM	8	0	20.42	20.46	20.39				
3	16QAM	8	4	20.34	20.40	20.38	22	2		
3	16QAM	1	0	20.38	20.53	20.45				
3	16QAM	15	0	20.46	20.44	20.41				
3	16QAM	1	0	20.59	20.56	20.43				
3	16QAM	1	8	20.43	20.48	20.32	22	2		
3	16QAM	1	14	20.38	20.48	20.42				
3	16QAM	8	0	19.40	19.47	19.32				
3	16QAM	8	7	19.29	19.45	19.30	21	3		
3	16QAM	8	7	19.50	19.50	19.50				
3	16QAM	15	0	19.29	19.38	19.41				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.36	22.67	22.67				
1.4	QPSK	1	3	22.60	22.62	22.50	24	0		
1.4	QPSK	1	6	22.38	22.57	22.43				
1.4	QPSK	3	0	22.51	22.61	22.42				
1.4	QPSK	3	3	22.48	22.54	22.44				
1.4	QPSK	3	6	22.40	22.51	22.45				
1.4	16QAM	1	0	21.47	21.57	21.45	23	1		
1.4	16QAM	1	0	21.48	21.63	21.57				
1.4	16QAM	1	3	21.37	21.43	21.38				
1.4	16QAM	1	6	21.38	21.47	21.37				
1.4	16QAM	3	0	21.43	21.49	21.34	23	1		
1.4	16QAM	3	1	21.27	21.40	21.33				
1.4	16QAM	3	3	21.40	21.53	21.39				
1.4	16QAM	6	0	20.40	20.43	20.40	22	2		
1.4	16QAM	1	0	20.48	20.55	20.51				
1.4	16QAM	1	3	20.46	20.51	20.30				
1.4	16QAM	1	6	20.39	20.54	20.43	22	2		
1.4	16QAM	3	0	20.43	20.46	20.35				
1.4	16QAM	3	3	20.57	20.58	20.36				
1.4	16QAM	3	3	20.45	20.55	20.40				
1.4	16QAM	6	0	19.27	19.47	19.33	21	3		

Band 13 Ant0 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power High Ch./F.Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.69	22.77	22.73	24	0		
10	QPSK	1	25	22.73	22.77	22.71				
10	QPSK	1	49	22.70	22.73	22.71				
10	QPSK	25	0	21.62	21.62	21.62	23	1		
10	QPSK	25	12	21.62	21.62	21.62				
10	QPSK	25	25	21.62	21.62	21.62				
10	QPSK	50	0	21.63	21.63	21.63				
10	16QAM	1	25	21.59	21.59	21.59	23	1		
10	16QAM	1	49	21.54	21.54	21.54				
10	16QAM	1	73	20.97	20.96	20.96				
10	16QAM	25	12	20.49	20.49	20.49	22	2		
10	16QAM	25	25	20.42	20.42	20.42				
10	16QAM	50	0	20.55	20.51	20.51				
10	16QAM	1	0	20.69	20.69	20.69				
10	16QAM	1	25	20.84	20.84	20.84	22	2		
10	16QAM	1	49	20.92	20.92	20.92				
10	16QAM	25	0	19.52	19.52	19.52				
10	16QAM	25	12	19.33	19.41	19.31	21	3		
10	16QAM	25	25	19.24	19.24	19.24				
10	16QAM	50	0	19.30	19.30	19.30				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.72	22.74	22.76				
5	QPSK	1	12	22.65	22.69	22.61	24	0		
5	QPSK	1	24	22.48	22.62	22.59				
5	QPSK	12	0	21.49	21.59	21.50				
5	QPSK	12	7	21.38	21.68	21.52	23	1		
5	QPSK	12	14	21.48	21.68	21.66				
5	QPSK	25	0	21.47	21.54	21.47				
5	16QAM	1	0	21.47	21.62	21.43				
5	16QAM	1	12	21.42	21.60	21.52	23	1		
5	16QAM	1	24	21.42	21.47	21.34				
5	16QAM	12	0	20.34	20.44	20.41				
5	16QAM	12	7	20.37	20.44	20.29	22	2		
5	16QAM	12	14	20.21	20.29	20.28				
5	16QAM	25	0	20.40	20.51	20.38				
5	16QAM	1	0	20.44	20.62	20.42	22	2		
5	16QAM	1	12	20.44	20.50	20.47				
5	16QAM	1	24	20.33	20.44	20.40				
5	16QAM	12	0	19.33	19.46	19.31				
5	16QAM	12	7	19.34	19.48	19.34	21	3		
5	16QAM	12	14	19.24	19.27	19.28				
5	16QAM	25	0	19.28	19.38	19.35				

Band 6										
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Band 2 Ant1 EC12												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.		
Channel										Time-up limit (min)	MPE (dB)	
Frequency (MHz)												
20	QPSK	1	0	15.48	15.56	15.53						
20	QPSK	1	49	15.48	15.56	15.53						
20	QPSK	1	99	15.20	15.30	15.28					16.6	0
20	QPSK	50	0	14.61	14.68	14.53						
20	QPSK	24	0	14.61	14.68	14.67						
20	QPSK	50	50	14.61	14.63	14.63					15.6	1
20	QPSK	100	0	14.60	14.62	14.60						
20	QPSK	100	0	14.48	14.51	14.53						
20	HQAM	1	49	14.45	14.50	14.39					15.6	1
20	HQAM	1	99	14.47	14.48	14.53						
20	HQAM	50	0	13.58	13.67	13.52						
20	HQAM	50	24	13.51	13.59	13.42					14.6	2
20	HQAM	50	50	13.61	13.68	13.61						
20	HQAM	100	0	13.67	13.74	13.61						
20	HQAM	1	0	13.61	13.59	13.52					14.6	2
20	HQAM	1	49	13.46	13.54	13.44						
20	HQAM	50	0	12.69	12.82	12.64						
20	HQAM	50	24	12.45	12.49	12.50					13.6	3
20	HQAM	50	24	12.39	12.51	12.52						
20	HQAM	100	0	12.67	12.73	12.70						
20	HQAM	1	49	10.58	10.62	10.63					11.6	5
20	HQAM	1	99	10.61	10.70	10.71						
20	HQAM	50	24	10.63	10.62	10.62						
20	HQAM	50	24	10.63	10.62	10.58					11.6	5
20	HQAM	50	50	10.63	10.62	10.71						
20	HQAM	100	0	10.63	10.62	10.62						
Channel												
Frequency (MHz)												
15	QPSK	1	0	15.28	15.22	15.20						
15	QPSK	1	37	15.21	15.21	15.21					16.6	0
15	QPSK	1	74	15.26	15.20	15.21						
15	QPSK	36	0	14.70	14.70	14.60						
15	QPSK	20	0	14.68	14.69	14.69						
15	QPSK	36	36	14.74	14.68	14.63					15.6	1
15	QPSK	75	0	14.76	14.79	14.69						
15	QPSK	75	0	14.67	14.71	14.66						
15	HQAM	1	37	14.63	14.58	14.50					15.6	1
15	HQAM	1	74	14.61	14.61	14.61						
15	HQAM	36	0	13.63	13.76	13.61						
15	HQAM	36	20	13.63	13.71	13.51					14.6	2
15	HQAM	36	36	13.69	13.69	13.69						
15	HQAM	75	0	13.77	13.80	13.72						
15	HQAM	1	0	13.69	13.63	13.64					14.6	2
15	HQAM	37	0	13.61	13.66	13.64						
15	HQAM	1	74	13.58	13.60	13.58						
15	HQAM	36	0	12.63	12.70	12.63						
15	HQAM	36	20	12.68	12.77	12.68						
15	HQAM	36	36	12.67	12.74	12.75					13.6	3
15	HQAM	75	0	12.83	12.83	12.81						
15	HQAM	1	0	12.65	12.65	12.64						
15	HQAM	1	37	10.47	10.52	10.40					11.6	5
15	HQAM	1	74	10.54	10.63	10.61						
15	HQAM	36	20	10.54	10.53	10.47					11.6	5
15	HQAM	36	36	10.52	10.50	10.61						
15	HQAM	75	0	10.53	10.44	10.50						
Channel												
Frequency (MHz)												
10	QPSK	1	0	15.09	15.09	15.09						
10	QPSK	1	25	15.10	15.10	15.09					16.6	0
10	QPSK	1	49	15.06	15.22	15.22						
10	QPSK	50	0	14.39	14.47	14.35						
10	QPSK	25	0	14.53	14.47	14.40					15.6	1
10	QPSK	25	12	14.39	14.47	14.35						
10	HQAM	1	0	14.35	14.42	14.44						
10	HQAM	1	25	14.34	14.38	14.27					15.6	1
10	HQAM	1	49	14.37	14.40	14.40						
10	HQAM	25	0	13.45	13.57	13.40						
10	HQAM	25	12	13.40	13.50	13.30					14.6	2
10	HQAM	25	12	13.40	13.52	13.40						
10	HQAM	50	0	13.59	13.58	13.51						
10	HQAM	1	0	13.46	13.41	13.42					14.6	2
10	HQAM	1	25	13.38	13.55	13.52						
10	HQAM	1	49	13.40	13.38	13.35						
10	HQAM	25	0	12.40	12.48	12.43						
10	HQAM	25	12	12.37	12.40	12.38						
10	HQAM	25	25	12.48	12.55	12.54					13.6	3
10	HQAM	50	0	12.62	12.62	12.63						
10	HQAM	50	0	12.61	12.67	12.64						
10	HQAM	1	25	10.50	10.50	10.47					11.6	5
10	HQAM	1	49	10.54	10.62	10.57						
10	HQAM	25	0	10.61	10.63	10.63						
10	HQAM	25	12	10.65	10.63	10.49					11.6	5
10	HQAM	25	25	10.54	10.52	10.61						
10	HQAM	50	0	10.55	10.56	10.51						
Channel												
Frequency (MHz)												
18	QPSK	1	0	15.09	15.09	15.09						
18	QPSK	1	12	15.12	15.10	15.11					16.6	0
18	QPSK	1	24	15.09	15.20	15.22						
18	QPSK	12	0	14.48	14.48	14.38						
18	QPSK	12	7	14.39	14.48	14.34					15.6	1
18	QPSK	25	0	14.61	14.47	14.44						
18	QPSK	25	0	14.67	14.58	14.58						
18	HQAM	1	0	14.35	14.50	14.44					15.6	1
18	HQAM	1	12	14.35	14.39	14.27						
18	HQAM	1	24	14.41	14.44	14.44						
18	HQAM	12	0	13.40	13.55	13.39						
18	HQAM	12	7	13.44	13.49	13.31					14.6	2
18	HQAM	12	13	13.46	13.54	13.51						
18	HQAM	25	0	13.65	13.62	13.62						
18	HQAM	1	0	13.51	13.43	13.41					14.6	2
18	HQAM	1	12	13.37	13.42	13.32						
18	HQAM	1	24	13.36	13.42	13.38						
18	HQAM	12	0	12.45	12.51	12.41						
18	HQAM	12	7	12.37	12.40	12.38						
18	HQAM	12	13	12.47	12.54	12.53					13.6	3
18	HQAM	25	0	12.66	12.68	12.62						
18	HQAM	1	0	10.38	10.43	10.41						
18	HQAM	1	12	10.44	10.47	10.41					11.6	5
18	HQAM	1	24	10.49	10.63	10.59						
18	HQAM	12	0	10.61	10.61	10.56						
18	HQAM	12	7	10.59	10.54	10.50					11.6	5
18	HQAM	25	0	10.61	10.58	10.49						
Channel												
Frequency (MHz)												
3	QPSK	1	0	15.10	15.14	15.20						
3	QPSK	1	8	15.10	15.10	15.11					16.6	0
3	QPSK	1	14	15.09	15.21	15.10						
3	QPSK	3	0	14.50	14.58	14.50						
3	QPSK	8	4	14.38	14.50	14.38					15.6	1
3	QPSK	8	7	14.54	14.61	14.41						
3	QPSK	15	0	14.68	14.61	14.50						
3	HQAM	1	0	14.39	14.54	14.48					15.6	1
3	HQAM	1	8	14.35	14.40	14.28						
3	HQAM	1	14	14.40	14.44	14.45						
3	HQAM	8	4	13.42	13.51	13.29					14.6	2
3	HQAM	8	7	13.49	13.53	13.55						
3	HQAM	15	0	13.58	13.60	13.53						
3	HQAM	1	0	13.61	13.48	13.42					14.6	2
3	HQAM	1	8	13.40	13.48	13.32						
3	HQAM	1	14	13.37	13.41	13.38						
3	HQAM	8	0	12.43	12.49	12.41						
3	HQAM	8	4	12.39	12.59	12.42					13.6	3
3	HQAM	8	7	12.45	12.55	12.57						
3	HQAM	15	0	10.39	10.45	10.42						
3	HQAM	1	8	10.44	10.48	10.51					11.6	5
3	HQAM	1	14	10.52	10.66	10.62						
3	HQAM	8	0	10.60	10.62	10.58						
3	HQAM	8	4	10.53	10.47	10.47					11.6	5
3	HQAM	8	7	10.61	10.58	10.49						
3	HQAM	15	0	10.58	10.57	10.49						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	15.06	15.24	15.24						
1.4	QPSK	1	3	15.14	15.19	15.06					16.6	0
1.4	QPSK	1	3	15.								



Band 12 Ant1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.99	22.01	21.98			23.3	0
10	QPSK	1	25	21.96	21.97	22.00				
10	QPSK	1	49	21.96	21.99	21.98				
10	QPSK	25	0	20.88	20.92	20.93			22.3	1
10	QPSK	25	12	20.93	20.91	20.91				
10	QPSK	25	25	20.83	20.95	20.79				
10	QPSK	50	0	20.06	20.06	20.09				
10	16QAM	50	0	21.03	21.11	21.04			21.3	1
10	16QAM	1	25	20.95	21.03	20.90				
10	16QAM	1	49	20.91	21.03	20.92				
10	16QAM	25	0	19.85	19.97	19.93			21.3	2
10	16QAM	25	12	19.83	19.98	19.95				
10	16QAM	25	25	19.77	19.95	19.78				
10	16QAM	50	0	19.97	20.05	19.94				
10	64QAM	1	0	20.07	20.13	20.07			21.3	1
10	64QAM	1	25	19.91	20.07	19.97				
10	64QAM	25	0	19.82	19.95	19.92			20.3	3
10	64QAM	25	12	19.83	19.98	19.95				
10	64QAM	25	25	19.78	19.95	19.78				
10	256QAM	1	25	17.03	17.05	17.07			18.3	5
10	256QAM	1	49	17.17	17.05	17.14				
10	256QAM	25	0	17.06	17.07	17.05				
10	256QAM	25	12	17.06	17.10	17.10				
10	256QAM	25	25	17.06	17.16	17.12				
10	256QAM	50	0	17.07	17.07	17.14				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.96	21.95	21.94			23.3	0
5	QPSK	1	12	21.81	21.91	21.91				
5	QPSK	1	24	21.86	21.89	21.87				
5	QPSK	12	0	20.78	20.81	20.84			22.3	1
5	QPSK	12	7	20.83	20.81	20.81				
5	QPSK	12	13	20.72	20.82	20.82				
5	QPSK	25	0	20.91	21.01	20.94				
5	16QAM	1	12	20.89	20.90	20.78			22.3	1
5	16QAM	1	24	20.82	20.95	20.85				
5	16QAM	12	0	19.76	19.94	19.85			21.3	2
5	16QAM	12	7	19.68	19.85	19.89				
5	16QAM	12	13	19.86	19.95	19.91				
5	16QAM	25	0	19.85	19.94	19.85				
5	64QAM	1	0	19.97	20.03	19.93			21.3	2
5	64QAM	1	12	19.76	19.95	19.85				
5	64QAM	1	24	19.72	19.83	19.85				
5	64QAM	12	0	18.79	18.93	18.89			20.3	3
5	64QAM	12	7	18.82	18.95	18.98				
5	64QAM	12	13	18.72	18.82	18.73				
5	64QAM	25	0	18.90	18.93	18.91				
5	256QAM	1	12	16.92	16.95	16.95			18.3	5
5	256QAM	1	24	17.05	16.90	17.02				
5	256QAM	12	0	16.96	17.00	17.00				
5	256QAM	12	7	16.99	17.01	17.01				
5	256QAM	12	13	16.92	17.05	17.00				
5	256QAM	25	0	16.95	17.01	16.99				
Channel										
Frequency (MHz)										
3	QPSK	1	0	21.83	21.91	21.89			23.3	0
3	QPSK	1	8	21.83	21.97	21.93				
3	QPSK	1	14	21.89	21.91	21.89				
3	QPSK	8	0	20.84	20.83	20.84			22.3	1
3	QPSK	8	4	20.84	20.83	20.84				
3	QPSK	8	7	20.68	20.86	20.89				
3	16QAM	1	8	20.91	20.98	20.93			22.3	1
3	16QAM	1	16	20.85	20.90	20.78				
3	16QAM	8	0	19.75	19.95	19.83			21.3	2
3	16QAM	8	4	19.72	19.85	19.85				
3	16QAM	8	7	19.64	19.86	19.85				
3	64QAM	1	0	19.95	19.98	19.97			20.3	3
3	64QAM	1	8	19.82	19.95	19.74				
3	64QAM	1	14	19.78	19.82	19.84				
3	64QAM	8	0	18.92	18.93	18.83				
3	64QAM	8	4	18.70	18.86	18.85				
3	64QAM	8	7	18.65	18.85	18.71				
3	256QAM	1	0	16.91	16.90	16.88			18.3	5
3	256QAM	1	8	17.11	16.94	17.03				
3	256QAM	1	14	16.90	16.84	17.00				
3	256QAM	8	0	17.06	16.95	17.01				
3	256QAM	8	4	16.98	16.99	17.03				
3	256QAM	8	7	16.94	17.01	17.01				
3	256QAM	15	0	16.93	17.01	16.99				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.92	21.94	21.91			23.3	0
1.4	QPSK	1	3	21.88	21.95	21.89				
1.4	QPSK	1	5	21.86	21.96	21.90				
1.4	QPSK	3	0	21.81	21.89	21.82			22.3	1
1.4	QPSK	3	1	21.83	21.90	21.83				
1.4	QPSK	3	3	21.72	21.86	21.67				
1.4	16QAM	1	0	20.92	21.01	20.96			22.3	1
1.4	16QAM	1	3	20.83	20.92	20.75				
1.4	16QAM	1	5	20.78	20.86	20.81				
1.4	16QAM	3	0	20.73	20.96	20.86				
1.4	16QAM	3	1	20.71	20.89	20.89				
1.4	16QAM	3	3	20.68	20.86	20.89			21.3	2
1.4	64QAM	1	0	19.90	19.95	19.82				
1.4	64QAM	1	3	19.83	19.95	19.97				
1.4	64QAM	1	5	19.71	19.83	19.85			21.3	2
1.4	64QAM	3	0	18.78	19.97	19.80				
1.4	64QAM	3	1	19.81	19.89	19.84				
1.4	64QAM	3	3	19.70	19.83	19.74			20.3	3
1.4	64QAM	6	0	18.90	18.91	18.80				
1.4	256QAM	1	0	17.07	16.94	17.07			18.3	5
1.4	256QAM	1	3	16.95	16.85	17.00				
1.4	256QAM	1	5	17.06	16.93	17.03				
1.4	256QAM	3	0	17.05	17.08	17.03				
1.4	256QAM	3	1	16.97	17.00	17.00				
1.4	256QAM	3	3	16.91	17.04	16.99			18.3	5
1.4	256QAM	6	0	16.93	17.03	16.95				

Band 13 Ant1 EC12										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.92	22.91	22.92			24	0
10	QPSK	1	25	22.81	22.92	22.81				
10	QPSK	1	49	22.82	22.82	22.82				
10	QPSK	25	0	21.78	21.78	21.78			23	1
10	QPSK	25	12	21.81	21.81	21.81				
10	QPSK	25	25	21.72	21.72	21.72				
10	QPSK	50	0	21.70	21.70	21.64				
10	16QAM	50	0	21.82	21.82	21.82			21.3	1
10	16QAM	1	25	21.74	21.74	21.74				
10	16QAM	1	49	21.74	21.74	21.74				
10	16QAM	25	0	20.89	20.89	20.89			22	2
10	16QAM	25	12	20.92	20.92	20.92				
10	16QAM	25	25	20.89	20.89	20.89				
10	16QAM	50	0	20.87	20.87	20.87				
10	64QAM	1	0	20.88	20.88	20.88			22	2
10	64QAM	1	25	20.72	20.72	20.72				
10	64QAM	1	49	20.89	20.89	20.89				
10	64QAM	25	0	19.70	19.70	19.70			21	3
10	64QAM	25	12	19.54	19.54	19.54				
10	64QAM	25	25	19.69	19.69	19.69				
10	256QAM	1	25	16.97	16.97	16.97			19	5
10	256QAM	1	49	17.89	17.89	17.89				
10	256QAM	25	0	17.93	17.93	17.88				
10	256QAM	25	12	17.92	17.92	17.92				



### Band 48 Ant3 EC12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	18.84	18.97	18.77	18.84	19.9	0
20	QPSK	1	49	18.88	18.90	18.90	18.79		
20	QPSK	1	99	18.76	18.81	18.77	18.77		
20	QPSK	50	0	17.86	17.89	17.79	17.85		
20	QPSK	50	24	17.75	17.84	17.75	17.73	18.9	1
20	QPSK	50	50	17.71	17.78	17.76	17.71		
20	QPSK	100	0	17.77	17.82	17.84	17.78		
20	QPSK	1	0	17.85	17.99	17.86	17.85		
20	16QAM	1	49	17.85	17.91	17.82	17.87	18.9	1
20	16QAM	1	99	17.78	17.86	17.80	17.78		
20	16QAM	50	0	16.90	16.90	16.83	16.85		
20	16QAM	50	24	16.69	16.83	16.75	16.75		
20	16QAM	50	50	16.74	16.80	16.75	16.77	17.9	2
20	16QAM	100	0	16.65	16.80	16.65	16.71		
20	64QAM	1	0	16.94	17.01	16.86	16.89		
20	64QAM	1	49	16.83	16.89	16.84	16.85		
20	64QAM	1	99	16.78	16.78	16.76	16.72	17.9	2
20	64QAM	50	0	15.84	15.96	15.81	15.86		
20	64QAM	50	24	15.83	15.89	15.77	15.76		
20	64QAM	50	50	15.76	15.83	15.80	15.74		
20	64QAM	100	0	15.66	15.71	15.75	15.61	16.9	3
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3603	3642	3692.5		
15	QPSK	1	0	18.76	18.83	18.67	18.75	19.9	0
15	QPSK	1	37	18.76	18.79	18.75	18.64		
15	QPSK	1	74	18.83	18.67	18.68	18.67		
15	QPSK	36	0	17.72	17.78	17.69	17.76		
15	QPSK	36	20	17.67	17.71	17.63	17.59	18.9	1
15	QPSK	36	39	17.60	17.69	17.66	17.57		
15	QPSK	75	0	17.64	17.69	17.53	17.70		
15	16QAM	1	0	17.73	17.86	17.79	17.87		
15	16QAM	1	37	17.72	17.81	17.70	17.72	18.9	1
15	16QAM	1	74	17.65	17.72	17.68	17.65		
15	16QAM	36	0	16.78	16.80	16.68	16.76		
15	16QAM	36	20	16.56	16.71	16.61	16.66		
15	16QAM	36	39	16.61	16.66	16.64	16.62	17.9	2
15	16QAM	75	0	16.50	16.72	16.51	16.62		
15	64QAM	1	0	16.85	16.86	16.72	16.76		
15	64QAM	1	37	16.76	16.76	16.70	16.71		
15	64QAM	1	74	16.64	16.69	16.65	16.60	17.9	2
15	64QAM	36	0	15.75	15.82	15.73	15.73		
15	64QAM	36	20	15.72	15.75	15.63	15.65		
15	64QAM	36	39	15.62	15.68	15.66	15.61		
15	64QAM	75	0	15.51	15.56	15.66	15.54	16.9	3
Channel				55290	55815	56165	56690		
Frequency (MHz)				3565	3607.5	3642.5	3695		
10	QPSK	1	0	18.74	18.84	18.67	18.74	19.9	0
10	QPSK	1	25	18.73	18.83	18.80	18.66		
10	QPSK	1	49	18.65	18.74	18.62	18.67		
10	QPSK	25	0	17.74	17.75	17.71	17.76		
10	QPSK	25	12	17.63	17.75	17.62	17.61	18.9	1
10	QPSK	25	25	17.63	17.67	17.65	17.64		
10	QPSK	50	0	17.68	17.68	17.52	17.65		
10	16QAM	1	0	17.71	17.87	17.75	17.84		
10	16QAM	1	25	17.75	17.80	17.71	17.75	18.9	1
10	16QAM	1	49	17.70	17.72	17.65	17.65		
10	16QAM	25	0	16.79	16.81	16.71	16.70		
10	16QAM	25	12	16.59	16.70	16.61	16.64		
10	16QAM	25	25	16.67	16.66	16.61	16.69	17.9	2
10	16QAM	50	0	16.54	16.67	16.57	16.59		
10	64QAM	1	0	16.86	16.89	16.75	16.80		
10	64QAM	1	25	16.70	16.77	16.77	16.77		
10	64QAM	1	49	16.71	16.69	16.64	16.58	17.9	2
10	64QAM	25	0	15.75	15.84	15.66	15.77		
10	64QAM	25	12	15.76	15.76	15.64	15.62		
10	64QAM	25	25	15.66	15.72	15.67	15.66		
10	64QAM	50	0	15.54	15.59	15.65	15.49	16.9	3
Channel				55265	55810	56170	56715		
Frequency (MHz)				3562.5	3607	3643	3697.5		
5	QPSK	1	0	18.72	18.85	18.64	18.77	19.9	0
5	QPSK	1	12	18.77	18.76	18.81	18.67		
5	QPSK	1	24	18.69	18.70	18.67	18.68		
5	QPSK	12	0	17.72	17.76	17.65	17.76		
5	QPSK	12	7	17.61	17.72	17.64	17.66	18.9	1
5	QPSK	12	13	17.61	17.66	17.63	17.60		
5	QPSK	25	0	17.68	17.75	17.56	17.65		
5	16QAM	1	0	17.73	17.86	17.74	17.86		
5	16QAM	1	12	17.78	17.84	17.74	17.75	18.9	1
5	16QAM	1	24	17.68	17.78	17.70	17.65		
5	16QAM	12	0	16.75	16.77	16.72	16.72		
5	16QAM	12	7	16.55	16.69	16.64	16.65		
5	16QAM	12	13	16.61	16.69	16.60	16.65	17.9	2
5	16QAM	25	0	16.54	16.69	16.57	16.58		
5	64QAM	1	0	16.85	16.89	16.73	16.76		
5	64QAM	1	12	16.75	16.81	16.76	16.73		
5	64QAM	1	24	16.69	16.65	16.68	16.63	17.9	2
5	64QAM	12	0	15.70	15.81	15.70	15.73		
5	64QAM	12	7	15.74	15.77	15.67	15.63		
5	64QAM	12	13	15.68	15.69	15.70	15.63		
5	64QAM	25	0	15.54	15.58	15.64	15.53	16.9	3





### Band 48 Ant4 EC12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				55340	55830	56150	56640				
Frequency (MHz)				3560	3609	3641	3690				
20	QPSK	1	0	22.41	22.58	22.42	22.56	24	0		
20	QPSK	1	49	22.35	22.49	22.48	22.38				
20	QPSK	1	99	22.40	22.42	22.40	22.30				
20	QPSK	50	0	21.39	21.49	21.43	21.37				
20	QPSK	50	24	21.43	21.46	21.34	21.36	23	1		
20	QPSK	50	50	21.42	21.42	21.41	21.39				
20	QPSK	100	0	21.39	21.49	21.47	21.43				
20	16QAM	1	0	21.54	21.57	21.53	21.54				
20	16QAM	1	49	21.35	21.49	21.49	21.37	23	1		
20	16QAM	1	99	21.41	21.46	21.35	21.38				
20	16QAM	50	0	20.39	20.51	20.44	20.51				
20	16QAM	50	24	20.50	20.53	20.50	20.48				
20	16QAM	50	50	20.35	20.45	20.44	20.41	22	2		
20	16QAM	100	0	20.36	20.50	20.46	20.48				
20	64QAM	1	0	20.44	20.53	20.38	20.42				
20	64QAM	1	49	20.49	20.51	20.41	20.37				
20	64QAM	1	99	20.32	20.42	20.40	20.27	22	2		
20	64QAM	50	0	19.42	19.47	19.43	19.44				
20	64QAM	50	24	19.39	19.51	19.50	19.50				
20	64QAM	50	50	19.36	19.44	19.31	19.43				
20	64QAM	100	0	19.45	19.59	19.45	19.49	21	3		
Channel				55315	55820	56160	56665				
Frequency (MHz)				3557.5	3608	3642	3692.5				
15	QPSK	1	0	22.40	22.54	22.39	22.46			24	0
15	QPSK	1	37	22.32	22.47	22.43	22.36				
15	QPSK	1	74	22.35	22.31	22.36	22.28				
15	QPSK	36	0	21.32	21.37	21.40	21.35				
15	QPSK	36	20	21.28	21.37	21.20	21.24	23	1		
15	QPSK	36	39	21.29	21.39	21.31	21.37				
15	QPSK	75	0	21.26	21.43	21.33	21.42				
15	16QAM	1	0	21.41	21.46	21.51	21.52				
15	16QAM	1	37	21.25	21.44	21.44	21.26	23	1		
15	16QAM	1	74	21.41	21.42	21.28	21.27				
15	16QAM	36	0	20.25	20.38	20.34	20.42				
15	16QAM	36	20	20.48	20.45	20.48	20.41				
15	16QAM	36	39	20.30	20.32	20.35	20.37	22	2		
15	16QAM	75	0	20.26	20.44	20.33	20.38				
15	64QAM	1	0	20.36	20.46	20.37	20.34				
15	64QAM	1	37	20.34	20.40	20.34	20.26				
15	64QAM	1	74	20.23	20.33	20.36	20.12	22	2		
15	64QAM	36	0	19.38	19.41	19.39	19.31				
15	64QAM	36	20	19.27	19.37	19.39	19.47				
15	64QAM	36	39	19.31	19.43	19.27	19.39				
15	64QAM	75	0	19.32	19.52	19.39	19.44	21	3		
Channel				55290	55815	56165	56690				
Frequency (MHz)				3555	3607.5	3642.5	3695				
10	QPSK	1	0	22.38	22.49	22.32	22.55			24	0
10	QPSK	1	25	22.33	22.45	22.46	22.26				
10	QPSK	1	49	22.31	22.29	22.26	22.27				
10	QPSK	25	0	21.29	21.39	21.37	21.37				
10	QPSK	25	12	21.42	21.34	21.23	21.27	23	1		
10	QPSK	25	25	21.30	21.38	21.27	21.33				
10	QPSK	50	0	21.32	21.47	21.40	21.36				
10	16QAM	1	0	21.49	21.43	21.47	21.46				
10	16QAM	1	25	21.31	21.37	21.40	21.35	23	1		
10	16QAM	1	49	21.35	21.37	21.23	21.25				
10	16QAM	25	0	20.31	20.41	20.41	20.38				
10	16QAM	25	12	20.47	20.38	20.36	20.46				
10	16QAM	25	25	20.24	20.44	20.41	20.39	22	2		
10	16QAM	50	0	20.23	20.39	20.34	20.42				
10	64QAM	1	0	20.34	20.49	20.37	20.31				
10	64QAM	1	25	20.37	20.40	20.39	20.25				
10	64QAM	1	49	20.18	20.36	20.26	20.13	22	2		
10	64QAM	25	0	19.31	19.34	19.36	19.36				
10	64QAM	25	12	19.33	19.48	19.36	19.43				
10	64QAM	25	25	19.30	19.41	19.30	19.30				
10	64QAM	50	0	19.37	19.49	19.39	19.34	21	3		
Channel				55265	55810	56170	56715				
Frequency (MHz)				3552.5	3607	3643	3697.5				
5	QPSK	1	0	22.40	22.46	22.36	22.52			24	0
5	QPSK	1	12	22.22	22.48	22.43	22.29				
5	QPSK	1	24	22.38	22.31	22.35	22.27				
5	QPSK	12	0	21.33	21.43	21.41	21.24				
5	QPSK	12	7	21.32	21.44	21.28	21.35	23	1		
5	QPSK	12	13	21.27	21.41	21.31	21.29				
5	QPSK	25	0	21.28	21.37	21.38	21.35				
5	16QAM	1	0	21.46	21.46	21.40	21.48				
5	16QAM	1	12	21.32	21.41	21.41	21.28	23	1		
5	16QAM	1	24	21.38	21.35	21.31	21.25				
5	16QAM	12	0	20.35	20.40	20.35	20.42				
5	16QAM	12	7	20.47	20.39	20.47	20.35				
5	16QAM	12	13	20.27	20.38	20.34	20.27	22	2		
5	16QAM	25	0	20.32	20.38	20.39	20.48				
5	64QAM	1	0	20.39	20.52	20.37	20.34				
5	64QAM	1	12	20.38	20.37	20.34	20.24				
5	64QAM	1	24	20.20	20.39	20.27	20.14	22	2		
5	64QAM	12	0	19.30	19.37	19.28	19.37				
5	64QAM	12	7	19.39	19.50	19.46	19.40				
5	64QAM	12	13	19.25	19.43	19.23	19.33				
5	64QAM	25	0	19.37	19.49	19.37	19.44	21	3		



### Band 48 Ant5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.84	21.92	21.82	21.76	23.3	0
20	QPSK	1	49	21.78	21.90	21.85	21.71		
20	QPSK	1	99	21.77	21.83	21.69	21.75		
20	QPSK	50	0	20.88	20.97	20.85	20.83		
20	QPSK	50	24	20.76	20.88	20.78	20.72	22.3	1
20	QPSK	50	50	20.77	20.86	20.73	20.67		
20	QPSK	100	0	20.87	20.94	20.88	20.82		
20	QPSK	1	0	20.95	21.06	21.03	20.95		
20	16QAM	1	49	20.82	20.92	20.86	20.77	22.3	1
20	16QAM	1	99	20.86	20.94	20.81	20.77		
20	16QAM	50	0	19.93	20.05	19.92	19.92		
20	16QAM	50	24	19.94	20.03	19.91	19.86		
20	16QAM	50	50	19.94	19.97	19.91	19.80	21.3	2
20	16QAM	100	0	20.03	20.07	19.99	19.89		
20	64QAM	1	0	19.82	19.94	19.80	19.78		
20	64QAM	1	49	19.86	19.92	19.83	19.77		
20	64QAM	1	99	19.76	19.81	19.73	19.67	21.3	2
20	64QAM	50	0	19.00	19.04	18.92	18.85		
20	64QAM	50	24	18.82	18.88	18.78	18.74		
20	64QAM	50	50	18.82	19.00	18.96	18.91		
20	64QAM	100	0	19.06	19.11	18.98	19.01	20.3	3
20	256QAM	1	0	16.95	16.84	16.92	16.90		
20	256QAM	1	49	16.80	16.87	16.82	16.85		
20	256QAM	1	99	16.83	16.72	16.78	16.87		
20	256QAM	50	0	16.94	16.83	16.82	16.85	18.3	5
20	256QAM	50	24	16.78	16.88	16.82	16.85		
20	256QAM	50	50	16.90	16.71	16.78	16.92		
20	256QAM	100	0	16.85	16.75	16.76	16.83		
Channel				55315	55820	56180	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.71	21.81	21.79	21.69	23.3	0
15	QPSK	1	37	21.66	21.78	21.81	21.64		
15	QPSK	1	74	21.68	21.75	21.58	21.64		
15	QPSK	36	0	20.74	20.91	20.77	20.75		
15	QPSK	36	20	20.69	20.78	20.68	20.61	22.3	1
15	QPSK	36	39	20.67	20.77	20.66	20.54		
15	QPSK	75	0	20.83	20.84	20.80	20.74		
15	16QAM	1	0	20.86	20.92	20.95	20.89		
15	16QAM	1	37	20.74	20.80	20.74	20.66	22.3	1
15	16QAM	1	74	20.83	20.83	20.70	20.63		
15	16QAM	36	0	19.88	19.93	19.85	19.79		
15	16QAM	36	20	19.87	19.89	19.81	19.81		
15	16QAM	36	39	19.88	19.91	19.80	19.65	21.3	2
15	16QAM	75	0	19.99	20.00	19.90	19.76		
15	64QAM	1	0	19.77	19.86	19.73	19.68		
15	64QAM	1	37	19.76	19.85	19.75	19.71		
15	64QAM	1	74	19.64	19.69	19.65	19.54	20.3	3
15	64QAM	36	0	18.89	19.00	18.85	18.70		
15	64QAM	36	20	18.71	18.79	18.74	18.61		
15	64QAM	36	39	18.80	18.88	18.91	18.80		
15	64QAM	75	0	19.01	18.98	18.89	18.91	18.3	5
15	256QAM	1	0	16.86	16.85	16.84	16.89		
15	256QAM	1	37	16.78	16.71	16.71	16.85		
15	256QAM	1	74	16.80	16.73	16.79	16.84		
15	256QAM	36	0	16.94	16.74	16.87	16.87	18.3	5
15	256QAM	36	20	16.86	16.71	16.75	16.80		
15	256QAM	36	39	16.91	16.76	16.87	16.89		
15	256QAM	75	0	16.85	16.68	16.71	16.77		
Channel				55300	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.75	21.88	21.78	21.71	23.3	0
10	QPSK	1	25	21.71	21.79	21.73	21.62		
10	QPSK	1	49	21.73	21.79	21.56	21.63		
10	QPSK	25	0	20.76	20.83	20.73	20.73		
10	QPSK	25	12	20.73	20.75	20.70	20.60	22.3	1
10	QPSK	25	25	20.65	20.72	20.61	20.52		
10	QPSK	50	0	20.80	20.79	20.73	20.78		
10	16QAM	1	0	20.80	20.98	20.99	20.84		
10	16QAM	1	25	20.70	20.80	20.73	20.70	22.3	1
10	16QAM	1	49	20.80	20.80	20.66	20.68		
10	16QAM	25	0	19.81	19.91	19.79	19.78		
10	16QAM	25	12	19.91	19.92	19.82	19.82		
10	16QAM	25	25	19.87	19.91	19.81	19.68	21.3	2
10	16QAM	50	0	19.98	19.97	19.95	19.84		
10	64QAM	1	0	19.70	19.85	19.73	19.74		
10	64QAM	1	25	19.76	19.78	19.70	19.67		
10	64QAM	1	49	19.70	19.69	19.66	19.54	20.3	3
10	64QAM	25	0	18.94	18.92	18.81	18.76		
10	64QAM	25	12	18.69	18.75	18.71	18.66		
10	64QAM	25	25	18.84	18.94	18.91	18.83		
10	64QAM	50	0	18.93	18.96	18.89	18.94	18.3	5
10	256QAM	1	0	16.90	16.81	16.87	16.95		
10	256QAM	1	25	16.80	16.66	16.78	16.75		
10	256QAM	1	49	16.91	16.72	16.86	16.83		
10	256QAM	25	0	16.86	16.81	16.86	16.91	18.3	5
10	256QAM	25	12	16.87	16.77	16.83	16.83		
10	256QAM	25	25	16.83	16.82	16.77	16.93		
10	256QAM	50	0	16.82	16.65	16.73	16.78		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.79	21.83	21.79	21.66	23.3	0
5	QPSK	1	12	21.72	21.83	21.72	21.61		
5	QPSK	1	24	21.71	21.69	21.55	21.65		
5	QPSK	12	0	20.81	20.82	20.76	20.69		
5	QPSK	12	7	20.67	20.81	20.69	20.69	22.3	1
5	QPSK	12	13	20.70	20.72	20.66	20.56		
5	QPSK	25	0	20.79	20.90	20.80	20.70		
5	16QAM	1	0	20.89	21.01	20.99	20.91		
5	16QAM	1	12	20.71	20.79	20.81	20.67	22.3	1
5	16QAM	1	24	20.72	20.79	20.77	20.70		
5	16QAM	12	0	19.83	19.99	19.87	19.79		
5	16QAM	12	7	19.82	19.99	19.85	19.77		
5	16QAM	12	13	19.82	19.91	19.79	19.71	21.3	2
5	16QAM	25	0	19.89	19.95	19.87	19.75		
5	64QAM	1	0	19.73	19.82	19.77	19.64		
5	64QAM	1	12	19.77	19.88	19.79	19.71		
5	64QAM	1	24	19.64	19.72	19.68	19.61	20.3	3
5	64QAM	12	0	18.93	18.92	18.79	18.81		
5	64QAM	12	7	18.69	18.81	18.73	18.66		
5	64QAM	12	13	18.78	18.95	18.81	18.83		
5	64QAM	25	0	18.92	19.06	18.85	18.95	18.3	5
5	256QAM	1	0	16.90	16.82	16.88	16.93		
5	256QAM	1	12	16.86	16.68	16.73	16.82		
5	256QAM	1	24	16.89	16.82	16.83	16.85		
5	256QAM	12	0	16.90	16.75	16.88	16.89	18.3	5
5	256QAM	12	7	16.82	16.70	16.75	16.80		
5	256QAM	12	13	16.83	16.76	16.88	16.85		
5	256QAM	25	0	16.78	16.71	16.78	16.77		



### Band 48 Ant8 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.44	21.76	21.69	21.70	23.1	0
20	QPSK	1	49	21.59	21.70	21.66	21.67		
20	QPSK	1	99	21.54	21.62	21.58	21.53		
20	QPSK	50	0	20.75	20.82	20.69	20.76		
20	QPSK	50	24	20.60	20.74	20.68	20.69	22.1	1
20	QPSK	50	50	20.58	20.63	20.60	20.60		
20	QPSK	100	0	20.55	20.67	20.60	20.61		
20	QPSK	1	0	20.78	20.85	20.78	20.82		
20	16QAM	1	49	20.70	20.79	20.72	20.75	22.1	1
20	16QAM	1	99	20.56	20.70	20.65	20.63		
20	16QAM	50	0	19.65	19.71	19.57	19.60		
20	16QAM	50	24	19.48	19.62	19.49	19.56		
20	16QAM	50	50	19.64	19.67	19.52	19.63	21.1	2
20	16QAM	100	0	19.64	19.71	19.60	19.63		
20	64QAM	1	0	19.66	19.78	19.69	19.74		
20	64QAM	1	49	19.72	19.79	19.66	19.75		
20	64QAM	1	99	19.58	19.72	19.62	19.62	21.1	2
20	64QAM	50	0	18.71	18.80	18.65	18.69		
20	64QAM	50	24	18.65	18.73	18.58	18.68		
20	64QAM	50	50	18.71	18.76	18.72	18.65		
20	64QAM	100	0	18.45	18.53	18.46	18.42	20.1	3
20	256QAM	1	0	16.70	16.64	16.68	16.76		
20	256QAM	1	49	16.57	16.52	16.51	16.53		
20	256QAM	1	99	16.71	16.80	16.63	16.72		
20	256QAM	50	0	16.72	16.53	16.65	16.66	18.1	5
20	256QAM	50	24	16.68	16.50	16.56	16.68		
20	256QAM	50	50	16.70	16.55	16.62	16.72		
20	256QAM	100	0	16.57	16.51	16.53	16.58		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	21.31	21.66	21.64	21.61	23.1	0
15	QPSK	1	37	21.48	21.56	21.62	21.57		
15	QPSK	1	74	21.47	21.54	21.53	21.39		
15	QPSK	36	0	20.65	20.79	20.59	20.64		
15	QPSK	36	20	20.46	20.62	20.54	20.62	22.1	1
15	QPSK	36	39	20.53	20.57	20.49	20.54		
15	QPSK	75	0	20.45	20.58	20.47	20.46		
15	16QAM	1	0	20.74	20.73	20.67	20.75		
15	16QAM	1	37	20.62	20.64	20.64	20.65	22.1	1
15	16QAM	1	74	20.53	20.57	20.62	20.49		
15	16QAM	36	0	19.55	19.57	19.51	19.52		
15	16QAM	36	20	19.35	19.47	19.37	19.47		
15	16QAM	36	39	19.53	19.60	19.42	19.58	21.1	2
15	16QAM	75	0	19.54	19.67	19.46	19.51		
15	64QAM	1	0	19.55	19.68	19.59	19.66		
15	64QAM	1	37	19.64	19.69	19.61	19.65		
15	64QAM	1	74	19.50	19.64	19.52	19.53	20.1	3
15	64QAM	36	0	18.63	18.70	18.56	18.56		
15	64QAM	36	20	18.56	18.68	18.51	18.63		
15	64QAM	36	39	18.56	18.64	18.66	18.57		
15	64QAM	75	0	18.36	18.40	18.42	18.38	18.1	5
15	256QAM	1	0	16.65	16.65	16.62	16.71		
15	256QAM	1	37	16.65	16.66	16.60	16.68		
15	256QAM	1	74	16.65	16.57	16.58	16.72		
15	256QAM	36	0	16.73	16.60	16.67	16.67	18.1	5
15	256QAM	36	20	16.62	16.54	16.60	16.60		
15	256QAM	36	39	16.69	16.59	16.63	16.61		
15	256QAM	75	0	16.55	16.51	16.55	16.61		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.36	21.66	21.58	21.60	23.1	0
10	QPSK	1	25	21.51	21.59	21.62	21.57		
10	QPSK	1	49	21.45	21.54	21.50	21.40		
10	QPSK	25	0	20.66	20.76	20.62	20.66		
10	QPSK	25	12	20.51	20.62	20.57	20.55	22.1	1
10	QPSK	25	25	20.51	20.53	20.52	20.57		
10	QPSK	50	0	20.47	20.54	20.48	20.47		
10	16QAM	1	0	20.65	20.72	20.72	20.67		
10	16QAM	1	25	20.64	20.67	20.67	20.69	22.1	1
10	16QAM	1	49	20.43	20.65	20.60	20.48		
10	16QAM	25	0	19.53	19.66	19.45	19.47		
10	16QAM	25	12	19.39	19.58	19.45	19.52		
10	16QAM	25	25	19.55	19.61	19.41	19.52	21.1	2
10	16QAM	50	0	19.49	19.63	19.52	19.55		
10	64QAM	1	0	19.62	19.67	19.57	19.64		
10	64QAM	1	25	19.65	19.70	19.52	19.66		
10	64QAM	1	49	19.55	19.64	19.55	19.50	20.1	3
10	64QAM	25	0	18.62	18.71	18.53	18.66		
10	64QAM	25	12	18.62	18.60	18.54	18.62		
10	64QAM	25	25	18.63	18.65	18.61	18.59		
10	64QAM	50	0	18.35	18.43	18.40	18.28	18.1	5
10	256QAM	1	0	16.72	16.59	16.62	16.76		
10	256QAM	1	25	16.59	16.48	16.58	16.62		
10	256QAM	1	49	16.64	16.52	16.64	16.68		
10	256QAM	25	0	16.67	16.54	16.66	16.70	18.1	5
10	256QAM	25	12	16.68	16.55	16.61	16.63		
10	256QAM	25	25	16.67	16.53	16.60	16.71		
10	256QAM	50	0	16.65	16.54	16.51	16.58		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.29	21.62	21.66	21.62	23.1	0
5	QPSK	1	12	21.52	21.55	21.55	21.58		
5	QPSK	1	24	21.46	21.52	21.48	21.40		
5	QPSK	12	0	20.63	20.68	20.63	20.65		
5	QPSK	12	7	20.55	20.70	20.63	20.61	22.1	1
5	QPSK	12	13	20.54	20.57	20.57	20.45		
5	QPSK	25	0	20.42	20.57	20.46	20.57		
5	16QAM	1	0	20.75	20.70	20.64	20.69		
5	16QAM	1	12	20.59	20.68	20.63	20.69	22.1	1
5	16QAM	1	24	20.53	20.66	20.54	20.49		
5	16QAM	12	0	19.57	19.63	19.50	19.55		
5	16QAM	12	7	19.43	19.52	19.42	19.49		
5	16QAM	12	13	19.56	19.53	19.47	19.49	21.1	2
5	16QAM	25	0	19.51	19.56	19.56	19.50		
5	64QAM	1	0	19.52	19.65	19.56	19.67		
5	64QAM	1	12	19.63	19.73	19.57	19.70		
5	64QAM	1	24	19.44	19.68	19.54	19.55	20.1	3
5	64QAM	12	0	18.57	18.76	18.51	18.63		
5	64QAM	12	7	18.60	18.63	18.54	18.63		
5	64QAM	12	13	18.64	18.72	18.62	18.52		
5	64QAM	25	0	18.32	18.40	18.32	18.37	18.1	5
5	256QAM	1	0	16.74	16.66	16.64	16.68		
5	256QAM	1	12	16.61	16.46	16.57	16.65		
5	256QAM	1	24	16.67	16.58	16.58	16.69		
5	256QAM	12	0	16.71	16.57	16.68	16.74	18.1	5
5	256QAM	12	7	16.67	16.50	16.61	16.65		
5	256QAM	12	13	16.72	16.57	16.64	16.72		
5	256QAM	25	0	16.66	16.53	16.58	16.62		



## Reduced Power Level for WWAN

### ECI3

GSM850 ECIS								
GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.67	31.86	31.75	32.80	22.67	22.86	22.75	23.80
GPRS 1 Tx slot	31.55	31.72	31.55	32.80	22.55	22.72	22.55	23.80
GPRS 2 Tx slots	30.94	31.10	30.97	31.80	24.94	25.10	24.97	25.80
GPRS 3 Tx slots	28.88	29.01	28.89	30.30	24.62	24.75	24.63	26.04
GPRS 4 Tx slots	27.70	27.76	27.71	29.30	24.70	24.76	24.71	26.30
EDGE 1 Tx slot	25.84	25.86	25.78	27.30	18.84	18.86	18.78	19.30
EDGE 2 Tx slots	24.55	24.64	24.59	26.30	18.55	18.64	18.59	20.30
EDGE 3 Tx slots	22.10	22.15	22.06	23.80	17.84	17.89	17.80	19.54
EDGE 4 Tx slots	21.04	21.13	21.03	22.80	18.04	18.13	18.03	19.80

GSM1900 ECIS								
GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.96	21.85	21.93	23.50	12.96	12.85	12.93	14.50
GPRS 1 Tx slot	21.92	21.81	21.89	23.50	12.92	12.81	12.89	14.50
GPRS 2 Tx slots	21.09	21.05	21.07	22.50	15.09	15.05	15.07	16.50
GPRS 3 Tx slots	20.04	20.05	19.98	21.50	15.78	15.79	15.72	17.24
GPRS 4 Tx slots	18.81	18.95	18.92	20.50	15.81	15.95	15.92	17.50
EDGE 1 Tx slot	18.88	18.89	19.10	19.50	9.88	9.89	10.10	10.50
EDGE 2 Tx slots	17.61	17.51	17.84	18.50	11.61	11.51	11.84	12.50
EDGE 3 Tx slots	15.21	15.26	15.53	16.50	10.95	11.00	11.27	12.24
EDGE 4 Tx slots	14.13	14.05	14.25	15.50	11.13	11.05	11.25	12.50

Band	WCDMA II ECIS			Tune-up Limit (dBm)	WCDMA V ECIS			Tune-up Limit (dBm)
	WCDMA II				WCDMA V			
TX Channel Frequency (MHz)	9262	9400	9538		4132	4182	4233	
	8562.4	8800	8938		4357	4407	4458	
	1852.4	1880	1907.6		826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	11.75	11.84	11.67	13.30	20.97	21.22	21.16	22.30
3GPP Rel 99 RMC 12.2Kbps	11.90	11.97	11.89	13.30	21.23	21.34	21.27	22.30
3GPP Rel 6 HSDPA Subtest-1	11.10	11.02	10.99	12.30	20.44	20.42	20.35	21.30
3GPP Rel 6 HSDPA Subtest-2	11.23	11.10	11.04	12.30	20.40	20.54	20.32	21.30
3GPP Rel 6 HSDPA Subtest-3	10.79	10.58	10.51	11.80	20.20	19.93	20.02	20.80
3GPP Rel 6 HSDPA Subtest-4	10.74	10.62	10.59	11.80	20.07	20.06	19.93	20.80
3GPP Rel 8 DC-HSDPA Subtest-1	11.02	11.09	10.93	12.30	20.39	20.45	20.31	21.30
3GPP Rel 8 DC-HSDPA Subtest-2	10.91	11.19	10.94	12.30	20.26	20.61	20.42	21.30
3GPP Rel 8 DC-HSDPA Subtest-3	10.56	10.61	10.39	11.80	19.85	19.97	19.84	20.80
3GPP Rel 8 DC-HSDPA Subtest-4	10.38	10.75	10.64	11.80	19.72	20.19	20.06	20.80
3GPP Rel 6 HSUPA Subtest-1	11.10	10.96	11.10	12.30	20.57	20.42	20.48	21.30
3GPP Rel 6 HSUPA Subtest-2	9.12	9.18	9.01	10.30	18.59	18.57	18.36	19.30
3GPP Rel 6 HSUPA Subtest-3	10.18	10.15	10.04	11.30	19.47	19.53	19.36	20.30
3GPP Rel 6 HSUPA Subtest-4	9.19	9.19	8.98	10.30	18.53	18.55	18.40	19.30
3GPP Rel 6 HSUPA Subtest-5	11.18	11.24	11.01	12.30	20.60	20.61	20.50	21.30







Band 12 Ant0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.77	22.73				
10	QPSK	1	24	22.84	22.91	22.87			24	0
10	QPSK	1	48	22.98	23.05	23.01				
10	QPSK	25	0	21.56	21.63	21.52				
10	QPSK	25	12	21.56	21.63	21.52				
10	QPSK	25	24	21.52	21.60	21.50			23	1
10	QPSK	50	0	21.56	21.63	21.52				
10	16QAM	0	0	21.52	21.60	21.51				
10	16QAM	1	24	21.47	21.53	21.48			23	1
10	16QAM	1	48	21.48	21.57	21.51				
10	16QAM	25	0	20.50	20.59	20.47				
10	16QAM	25	12	20.39	20.51	20.44			22	2
10	16QAM	25	24	20.51	20.57	20.51				
10	16QAM	50	0	20.50	20.59	20.51				
10	64QAM	1	0	20.59	20.69	20.55				
10	64QAM	1	24	20.53	20.57	20.44			22	2
10	64QAM	1	48	20.51	20.59	20.49				
10	64QAM	25	0	19.54	19.58	19.47				
10	64QAM	25	12	19.41	19.52	19.44			21	3
10	64QAM	25	24	19.54	19.53	19.53				
10	64QAM	50	0	19.38	19.51	19.45				
10	256QAM	1	24	17.77	17.86	17.81			19	5
10	256QAM	1	48	17.78	17.79	17.74				
10	256QAM	25	0	17.82	17.83	17.83				
10	256QAM	25	12	17.74	17.78	17.75			19	5
10	256QAM	25	24	17.82	17.78	17.74				
10	256QAM	50	0	17.76	17.77	17.77				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.59	22.71	22.67				
5	QPSK	1	12	22.44	22.63	22.48			24	0
5	QPSK	1	24	22.48	22.63	22.50				
5	QPSK	12	0	21.49	21.59	21.50				
5	QPSK	12	7	21.38	21.47	21.42			23	1
5	QPSK	12	13	21.44	21.48	21.48				
5	QPSK	25	0	21.42	21.54	21.47				
5	16QAM	1	0	21.41	21.46	21.46				
5	16QAM	1	12	21.33	21.41	21.43			23	1
5	16QAM	1	24	21.34	21.39	21.37				
5	16QAM	12	0	20.41	20.48	20.43				
5	16QAM	12	7	20.33	20.43	20.34			22	2
5	16QAM	12	13	20.46	20.46	20.43				
5	16QAM	25	0	20.41	20.42	20.37				
5	64QAM	1	0	20.35	20.35	20.30			22	2
5	64QAM	1	12	20.34	20.36	20.30				
5	64QAM	1	24	20.45	20.37	20.35				
5	64QAM	12	0	19.43	19.52	19.37			21	3
5	64QAM	12	7	19.34	19.48	19.34				
5	64QAM	12	13	19.49	19.45	19.41				
5	64QAM	25	0	19.33	19.38	19.40				
5	256QAM	1	0	17.85	17.85	17.85			19	5
5	256QAM	1	12	17.75	17.77	17.72				
5	256QAM	1	24	17.79	17.77	17.77				
5	256QAM	12	0	17.82	17.82	17.82				
5	256QAM	12	7	17.75	17.73	17.73			19	5
5	256QAM	12	13	17.72	17.71	17.74				
5	256QAM	25	0	17.76	17.77	17.77				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.63	22.63	22.67				
3	QPSK	1	8	22.63	22.60	22.52			24	0
3	QPSK	1	14	22.40	22.52	22.48				
3	QPSK	8	0	21.50	21.59	21.44			23	1
3	QPSK	8	7	21.46	21.55	21.44				
3	16QAM	1	0	21.39	21.63	21.51				
3	16QAM	1	8	21.43	21.39	21.41			23	1
3	16QAM	1	16	20.38	20.53	20.46				
3	16QAM	8	0	20.42	20.46	20.39				
3	16QAM	8	4	20.34	20.40	20.38			22	2
3	16QAM	8	12	20.38	20.40	20.46				
3	64QAM	1	0	20.46	20.44	20.41				
3	64QAM	1	8	20.50	20.55	20.43			22	2
3	64QAM	1	16	20.43	20.48	20.32				
3	64QAM	1	24	20.36	20.48	20.42				
3	64QAM	8	0	19.40	19.47	19.32			21	3
3	64QAM	8	4	19.39	19.46	19.30				
3	64QAM	8	7	19.50	19.50	19.50				
3	64QAM	15	0	19.29	19.38	19.41				
3	256QAM	1	0	17.85	17.85	17.85			19	5
3	256QAM	1	8	17.76	17.76	17.76				
3	256QAM	1	14	17.71	17.71	17.71				
3	256QAM	8	4	17.31	17.73	17.76			19	5
3	256QAM	8	7	17.79	17.82	17.83				
3	256QAM	15	0	17.89	17.71	17.77				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.55	22.61	22.67				
1.4	QPSK	1	3	22.60	22.62	22.50				
1.4	QPSK	1	5	22.38	22.57	22.43			24	0
1.4	QPSK	3	0	22.51	22.61	22.61				
1.4	QPSK	3	1	22.48	22.54	22.44				
1.4	QPSK	3	3	22.40	22.51	22.45			23	1
1.4	QPSK	6	0	21.47	21.43	21.45				
1.4	16QAM	1	0	21.46	21.63	21.57				
1.4	16QAM	1	3	21.37	21.43	21.38			23	1
1.4	16QAM	1	6	21.38	21.47	21.37				
1.4	16QAM	3	0	21.43	21.49	21.34				
1.4	16QAM	3	1	21.27	21.40	21.33				
1.4	16QAM	6	0	20.40	20.43	20.40			22	2
1.4	64QAM	1	0	20.48	20.55	20.51				
1.4	64QAM	1	3	20.46	20.51	20.39				
1.4	64QAM	1	5	20.39	20.54	20.43			22	2
1.4	64QAM	3	0	20.45	20.46	20.35				
1.4	64QAM	3	3	20.37	20.39	20.38				
1.4	64QAM	3	3	20.48	20.55	20.40			21	3
1.4	256QAM	1	0	17.85	17.86	17.87				
1.4	256QAM	1	3	17.88	17.73	17.70			19	5
1.4	256QAM	1	3	17.78	17.72	17.81				
1.4	256QAM	3	1	17.74	17.71	17.74				
1.4	256QAM	3	1	17.74	17.89	17.73				
1.4	256QAM	3	3	17.79	17.72	17.77			19	5
1.4	256QAM	6	0	17.76	17.69	17.74				

Band 13 Ant0 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.89	22.99	22.93				
10	QPSK	1	24	22.89	22.99	22.93			24	0
10	QPSK	1	48	22.71	22.81	22.76				
10	QPSK	25	0	21.70	21.80	21.75				
10	QPSK	25	12	21.63	21.73	21.68			23	1
10	QPSK	25	24	21.62	21.72	21.67				
10	QPSK	50	0	21.63	21.73	21.67				
10	16QAM	1	0	21.59	21.69	21.64				
10	16QAM	1	24	21.54	21.64	21.59			23	1
10	16QAM	1	48	21.54	21.64	21.59				
10	16QAM	25	0	20.52	20.62	20.57				
10	16QAM	25	12	20.49	20.59	20.54			22	2
10	16QAM	25	24	20.52	20.62	20.57				
10	16QAM	50	0	20.52	20.62	20.57				
10	64QAM	1	0	20.59	20.69	20.64				
10	64QAM	1	24	20.54	20.64	20.59			22	2
10	64QAM	1	48	20.52	20.62	20.57				
10	64QAM	25	0	19.52	19.62	19.57				
10	64QAM	25	12	19.38	19.53	19.44			21	3
10	64QAM	25	24	19.52	19.53</					



Band 2 Ant1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MPE (dB)		
Channel										
1800 1800 1900										
20	QPSK	1	0	16.72	16.63	16.77				
20	QPSK	1	49	16.82	16.79	16.76	17.2	0		
20	QPSK	1	99	16.82	16.79	16.76				
20	QPSK	50	0	14.71	14.73	14.64				
20	QPSK	24	0	14.57	14.63	14.64				
20	QPSK	50	50	14.69	14.67	14.61				
20	QPSK	100	0	14.80	14.68	14.74				
20	16QAM	50	0	14.51	14.62	14.60				
20	16QAM	1	49	14.58	14.66	14.75	16.2	1		
20	16QAM	1	99	14.60	14.66	14.64				
20	16QAM	50	0	13.89	13.79	13.83				
20	16QAM	50	24	13.81	13.72	13.51	15.2	2		
20	16QAM	50	50	13.88	13.84	13.70				
20	16QAM	100	0	13.77	13.66	13.70				
20	84QAM	1	0	13.61	13.69	13.48				
20	84QAM	1	49	13.53	13.60	13.54	15.2	2		
20	84QAM	50	0	12.70	12.72	12.55				
20	84QAM	50	24	12.57	12.71	12.49	14.2	3		
20	84QAM	50	50	12.74	12.73	12.51				
20	256QAM	1	49	11.27	11.32	11.26	12.2	5		
20	256QAM	1	99	11.34	11.39	11.36				
20	256QAM	50	0	11.20	11.28	11.20				
20	256QAM	50	24	11.24	11.31	11.23	12.2	5		
20	256QAM	50	50	11.31	11.27	11.40				
20	256QAM	100	0	11.20	11.28	11.20				
Channel										
1807.5 1890 1902.5										
15	QPSK	1	0	15.71	15.76	15.65				
15	QPSK	1	37	15.64	15.66	15.67	17.2	0		
15	QPSK	1	74	15.55	15.69	15.67				
15	QPSK	36	0	14.68	14.73	14.59				
15	QPSK	25	0	14.41	14.51	14.49				
15	QPSK	36	36	14.58	14.59	14.55	16.2	1		
15	16QAM	75	0	14.76	14.74	14.69				
15	16QAM	1	74	14.44	14.48	14.49	16.2	1		
15	16QAM	1	37	14.41	14.50	14.38				
15	16QAM	36	0	13.62	13.69	13.63				
15	16QAM	36	20	13.53	13.68	13.34	15.2	2		
15	16QAM	36	29	13.56	13.68	13.45				
15	16QAM	75	0	13.71	13.63	13.67				
15	84QAM	1	0	13.49	13.70	13.43				
15	84QAM	1	37	13.47	13.68	13.42	16.2	2		
15	84QAM	1	74	13.47	13.64	13.51				
15	84QAM	36	0	12.61	12.67	12.51				
15	84QAM	36	29	12.56	12.68	12.43	14.2	3		
15	84QAM	36	39	12.59	12.62	12.61				
15	84QAM	75	0	12.70	12.61	12.66				
15	256QAM	1	37	11.20	11.22	11.20	12.2	5		
15	256QAM	1	74	11.22	11.33	11.31				
15	256QAM	36	0	11.24	11.28	11.28				
15	256QAM	36	20	11.12	11.20	11.09	12.2	5		
15	256QAM	36	39	11.24	11.21	11.31				
15	256QAM	75	0	11.23	11.28	11.21				
Channel										
1860 1890 1905										
10	QPSK	1	0	16.07	16.10	16.10				
10	QPSK	1	25	15.54	15.65	15.59	17.2	0		
10	QPSK	1	49	15.56	15.69	15.56				
10	QPSK	25	0	14.45	14.48	14.44				
10	QPSK	25	12	14.45	14.48	14.44	16.2	1		
10	QPSK	25	25	14.62	14.62	14.46				
10	16QAM	75	0	14.46	14.46	14.46				
10	16QAM	1	24	14.38	14.52	14.49	16.2	1		
10	16QAM	1	24	14.45	14.66	14.39				
10	16QAM	25	0	13.60	13.68	13.49				
10	16QAM	25	12	13.48	13.68	13.45	15.2	2		
10	16QAM	25	12	13.68	13.67	13.52				
10	16QAM	50	0	13.66	13.70	13.63				
10	84QAM	1	0	13.43	13.62	13.42				
10	84QAM	1	24	13.50	13.48	13.48	16.2	2		
10	84QAM	1	49	13.43	13.57	13.45				
10	84QAM	25	0	12.61	12.64	12.40				
10	84QAM	25	12	12.59	12.66	12.41	14.2	3		
10	84QAM	25	25	12.59	12.66	12.67				
10	84QAM	50	0	12.66	12.69	12.74				
10	256QAM	1	24	11.42	11.23	11.21	12.2	5		
10	256QAM	1	24	11.13	11.20	11.19				
10	256QAM	1	49	11.21	11.26	11.23				
10	256QAM	12	0	11.22	11.44	11.43				
10	256QAM	25	12	11.16	11.17	11.16	12.2	5		
10	256QAM	25	25	11.16	11.12	11.32				
10	256QAM	50	0	11.27	11.29	11.21				
Channel										
1862.5 1890 1907.5										
5	QPSK	1	0	16.02	16.08	16.07				
5	QPSK	1	12	15.53	15.65	15.57	17.2	0		
5	QPSK	1	24	15.52	15.68	15.58				
5	QPSK	12	0	14.67	14.67	14.67				
5	QPSK	12	7	14.43	14.55	14.43	16.2	1		
5	QPSK	12	13	14.61	14.61	14.60				
5	QPSK	25	0	14.71	14.73	14.67				
5	16QAM	1	0	14.37	14.50	14.47	16.2	1		
5	16QAM	1	12	14.42	14.65	14.42				
5	16QAM	12	0	13.59	13.66	13.46				
5	16QAM	12	7	13.47	13.69	13.45	15.2	2		
5	16QAM	12	13	13.67	13.64	13.62				
5	16QAM	25	0	13.69	13.73	13.61				
5	84QAM	1	0	13.46	13.65	13.44				
5	84QAM	1	12	13.50	13.59	13.49	15.2	2		
5	84QAM	1	24	13.46	13.57	13.48				
5	84QAM	12	0	12.65	12.65	12.45				
5	84QAM	12	7	12.51	12.71	12.48	14.2	3		
5	84QAM	12	13	12.59	12.62	12.70				
5	84QAM	25	0	12.66	12.70	12.76				
5	256QAM	1	0	11.42	11.29	11.29	12.2	5		
5	256QAM	1	12	11.22	11.22	11.18				
5	256QAM	1	24	11.21	11.34	11.32				
5	256QAM	12	0	11.30	11.47	11.41				
5	256QAM	12	7	11.12	11.21	11.14	12.2	5		
5	256QAM	12	13	11.20	11.12	11.32				
5	256QAM	25	0	11.28	11.30	11.33				
Channel										
1861.5 1890 1918.5										
3	QPSK	1	0	15.99	15.74	15.55				
3	QPSK	1	14	15.52	15.67	15.67	17.2	0		
3	QPSK	1	14	15.55	15.72	15.61				
3	QPSK	8	0	14.53	14.66	14.54				
3	QPSK	8	4	14.43	14.53	14.44	16.2	1		
3	QPSK	8	7	14.60	14.56	14.49				
3	QPSK	15	0	14.72	14.72	14.70				
3	16QAM	1	0	14.37	14.51	14.49	16.2	1		
3	16QAM	1	8	14.43	14.63	14.41				
3	16QAM	1	14	14.49	14.58	14.48				
3	16QAM	8	0	13.59	13.66	13.49				
3	16QAM	8	4	13.47	13.64	13.48	15.2	2		
3	16QAM	8	7	13.65	13.67	13.62				
3	16QAM	15	0	13.70	13.71	13.63				
3	16QAM	15	0	13.44	13.61	13.46	15.2	2		
3	84QAM	1	0	13.49	13.46	13.30				
3	84QAM	1	14	13.47	13.50	13.52				
3	84QAM	8	0	12.66	12.69	12.41				
3	84QAM	8	4	12.49	12.49	12.44	14.2	3		
3	84QAM	8	7	12.60	12.67	12.57				
3	84QAM	15	0	12.60	12.70	12.60				



Band 12 Ant1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)				704	707.5	711				
10	QPSK	1	0	22.91	22.64	22.86				
10	QPSK	1	25	22.83	22.56	22.78			24	0
10	QPSK	1	49	22.78	22.81	22.75				
10	QPSK	25	0	21.71	21.81	21.70				
10	QPSK	25	12	21.73	21.78	21.68			23	1
10	QPSK	25	25	21.64	21.74	21.82				
10	QPSK	50	0	21.73	21.83	21.80				
10	16QAM	1	0	21.82	21.94	21.86				
10	16QAM	1	25	21.75	21.84	21.75			23	1
10	16QAM	1	49	21.69	21.82	21.74				
10	16QAM	25	0	20.79	20.94	20.76				
10	16QAM	25	12	20.87	20.81	20.75			22	2
10	16QAM	25	25	20.99	20.72	20.80				
10	16QAM	50	0	20.77	20.86	20.79				
10	64QAM	1	0	20.86	20.96	20.89				
10	64QAM	1	25	20.74	20.86	20.71			22	2
10	64QAM	1	49	20.68	20.77	20.72				
10	64QAM	25	0	19.77	19.87	19.75				
10	64QAM	25	12	19.82	19.81	19.73			21	3
10	64QAM	25	25	19.84	19.74	19.68				
10	64QAM	50	0	19.81	19.88	19.84				
10	256QAM	1	0	17.99	17.92	17.96				
10	256QAM	1	25	17.94	17.81	17.90			19	5
10	256QAM	1	49	17.85	17.89	17.97				
10	256QAM	25	0	17.92	17.93	17.86				
10	256QAM	25	12	17.87	17.90	17.88			19	5
10	256QAM	25	25	17.91	17.84	17.90				
10	256QAM	50	0	17.93	17.95	17.93				
Channel										
Frequency (MHz)				700.5	707.5	714.5			MPE (dB)	
5	QPSK	1	0	22.86	22.82	22.78			24	0
5	QPSK	1	24	22.65	22.74	22.66				
5	QPSK	12	0	21.58	21.66	21.63				
5	QPSK	12	7	21.66	21.70	21.64			23	1
5	QPSK	12	13	21.56	21.69	21.59				
5	16QAM	1	0	21.62	21.72	21.66				
5	16QAM	1	12	21.67	21.70	21.64			23	1
5	16QAM	1	24	21.59	21.70	21.63				
5	16QAM	12	0	20.96	20.79	20.71				
5	16QAM	12	7	20.56	20.73	20.72			22	2
5	16QAM	12	13	20.64	20.68	20.58				
5	64QAM	1	0	20.69	20.79	20.67				
5	64QAM	1	24	20.50	20.57	20.57			22	2
5	64QAM	12	0	19.83	19.83	19.84				
5	64QAM	12	7	19.82	19.81	19.86			21	3
5	64QAM	12	13	19.54	19.51	19.55				
5	64QAM	25	0	19.77	19.76	19.79				
5	256QAM	1	0	17.92	17.91	17.96				
5	256QAM	1	12	17.90	17.80	17.85			19	5
5	256QAM	1	24	17.92	17.89	17.94				
5	256QAM	12	0	17.86	17.86	17.88				
5	256QAM	12	7	17.81	17.84	17.86			19	5
5	256QAM	12	13	17.85	17.81	17.88				
5	256QAM	25	0	17.84	17.81	17.87				
Channel										
Frequency (MHz)				700.5	707.5	714.5			MPE (dB)	
3	QPSK	1	0	22.81	22.77	22.77			24	0
3	QPSK	1	14	22.66	22.68	22.71				
3	QPSK	1	28	22.67	22.79	22.70				
3	QPSK	8	0	21.65	21.68	21.64				
3	QPSK	8	7	21.60	21.68	21.67			23	1
3	QPSK	8	14	21.59	21.69	21.66				
3	16QAM	1	0	21.71	21.90	21.76				
3	16QAM	1	8	21.62	21.78	21.60			23	1
3	16QAM	1	16	21.66	21.80	21.66				
3	16QAM	8	0	20.66	20.79	20.62				
3	16QAM	8	4	20.52	20.75	20.66			22	2
3	16QAM	8	12	20.48	20.64	20.47				
3	64QAM	1	0	20.74	20.92	20.80				
3	64QAM	1	8	20.60	20.80	20.60			22	2
3	64QAM	1	14	20.58	20.74	20.61				
3	64QAM	8	0	19.82	19.77	19.67				
3	64QAM	8	4	19.80	19.69	19.61			21	3
3	64QAM	8	7	19.52	19.63	19.55				
3	256QAM	1	0	17.91	17.82	17.83				
3	256QAM	1	14	17.90	17.85	17.94			19	5
3	256QAM	1	28	17.90	17.89	17.96				
3	256QAM	8	0	17.85	17.89	17.96				
3	256QAM	8	4	17.85	17.80	17.85			19	5
3	256QAM	8	7	17.88	17.83	17.96				
3	256QAM	15	0	17.84	17.81	17.87				

Band 13 Ant1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)				782						
10	QPSK	1	0	22.82	22.82	22.82			24	0
10	QPSK	1	25	22.82	22.82	22.82				
10	QPSK	1	49	22.82	22.82	22.82				
10	QPSK	25	0	21.73	21.73	21.73			23	1
10	QPSK	25	12	21.73	21.73	21.73				
10	QPSK	25	25	21.73	21.73	21.73				
10	QPSK	50	0	21.70	21.70	21.70				
10	16QAM	1	0	21.73	21.73	21.73			23	1
10	16QAM	1	25	21.74	21.74	21.74				
10	16QAM	1	49	21.74	21.74	21.74				
10	16QAM	25	0	20.57	20.57	20.57			22	2
10	16QAM	25	12	20.57	20.57	20.57				
10	16QAM	25	25	20.57	20.57	20.57				
10	64QAM	1	0	20.88	20.88	20.88				
10	64QAM	1	25	20.72	20.72	20.72			22	2
10	64QAM	1	49	20.81	20.86	20.83				
10	64QAM	25	0	19.70	19.70	19.70				
10	64QAM	25	12	19.84	19.84	19.84			21	3
10	64QAM	25	25	19.82	19.81	19.81				
10	64QAM	50	0	19.80	19.80	19.80				
10	256QAM	1	0	18.00	18.00	18.00				
10	256QAM	1	25	17.88	17.88	17.88			19	5
10	256QAM	1	49	17.88	17.88	17.88				
10	256QAM	25	0	17.82	17.82	17.82				
Channel										
Frequency (MHz)				782.5	784.5				MPE (dB)	
5	QPSK	1	0	22.79	22.79	22.73			24	0
5	QPSK	1	12	22.82	22.87	22.87				
5	QPSK	1	24	22.83	22.73	22.82				
5	QPSK	12	0	21.70	21.70	21.64				
5	QPSK	12	7	21.42	21.48	21.55			23	1
5	QPSK	12	13	21.55	21.67	21.59				
5	16QAM	1	0	21.66	21.96	21.60				
5	16QAM	1	12	21.64	21.89	21.59			23	1
5	16QAM	1	24	21.57	21.61	21.68				
5	16QAM	12	0	20.52	20.62	20.42				
5	16QAM	12	7	20.34	20.54	20.43			22	2
5	16QAM	12	13	19.32	19.49	19.31				
5	64QAM	1	0	20.42	20.49	20.44				
5	64QAM	1	24	20.55	20.55	20.41			22	2
5	64QAM	12	0	19.59	19.67	19.46				
5	64QAM	12	7	19.32	19.49	19.31			21	3
5	64QAM	12	13	19.53	19.53	19.50				
5	64QAM	25	0	19.57	19.55	19.46				
5	256QAM	1	0	18.00	17.96	17.98				
5	256QAM	1	12	17.90	17.92	17.81			19	5
5	256QAM	1	24	17.86	17.93	17.94				
5	256QAM	12	0	17.86	17.90	17.88				
5	256QAM	12	7	17.84	17.82	17.87			19	5
5	256QAM	12	13	17.84	17.87	17.88				
5	256QAM	25	0	17.82	17.82	17.85				

Band 66 Ant1 EC13										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)		
Channel										
Frequency (MHz)				1720	1745	1775				
20	QPSK	1	0	16.36	16.44	16.42			17.7	0
20	QPSK	1	49	16.32	16.42	16.39				
20	QPSK	1	99	16.35	16.36	16.43				
20	QPSK	50	0	15.53	15.58	15.54				
20	QPSK	50	24	15.66	15.62	15.69			16.7	1
20	QPSK	50	50	15.81	15.60	15.44				
20	QPSK	100	0	15.51	15.58	15.46				
20	16QAM	1	0	15.58	15.58	15.45				
20	16QAM	1	49	15.50	15.53	15.59			16.7	1
20	16QAM	1	99	15.48	15.55	15.49				
20	16QAM	50	0	14.53	14.52	14.54				
20	16QAM	50	24	14.46	14.47	14.47			15.7	2
20	16QAM	50	50							





### Band 48 Ant3 EC13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.34	17.46	17.27	17.30	18.7	0
20	QPSK	1	49	17.30	17.36	17.33	17.25		
20	QPSK	1	99	17.20	17.29	17.22	17.26		
20	QPSK	50	0	16.34	16.36	16.25	16.31		
20	QPSK	50	24	16.18	16.28	16.19	16.22	17.7	1
20	QPSK	50	50	16.18	16.22	16.22	16.15		
20	QPSK	100	0	16.23	16.26	16.13	16.24		
20	QPSK	1	0	16.32	16.44	16.34	16.42		
20	16QAM	1	49	16.28	16.34	16.28	16.32	17.7	1
20	16QAM	1	99	16.26	16.29	16.24	16.26		
20	16QAM	50	0	15.34	15.36	15.28	15.28		
20	16QAM	50	24	15.14	15.28	15.20	15.23		
20	16QAM	50	50	15.20	15.26	15.20	15.21	16.7	2
20	16QAM	100	0	15.09	15.27	15.11	15.15		
20	64QAM	1	0	15.40	15.44	15.32	15.31		
20	64QAM	1	49	15.26	15.37	15.30	15.30		
20	64QAM	1	99	15.21	15.23	15.22	15.20	16.7	2
20	64QAM	50	0	14.31	14.38	14.25	14.29		
20	64QAM	50	24	14.26	14.34	14.20	14.20		
20	64QAM	50	50	14.21	14.29	14.22	14.19		
20	64QAM	100	0	14.09	14.15	14.18	14.04	15.7	3
20	256QAM	1	0	12.44	12.34	12.48	12.45		
20	256QAM	1	49	12.30	12.29	12.35	12.37		
20	256QAM	1	99	12.41	12.43	12.38	12.39		
20	256QAM	50	0	12.46	12.44	12.40	12.48	13.7	5
20	256QAM	50	24	12.31	12.35	12.35	12.42		
20	256QAM	50	50	12.40	12.35	12.46	12.41		
20	256QAM	100	0	12.39	12.30	12.41	12.35		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	17.26	17.34	17.18	17.25	18.7	0
15	QPSK	1	37	17.17	17.23	17.19	17.19		
15	QPSK	1	74	17.14	17.25	17.16	17.14		
15	QPSK	36	0	16.25	16.21	16.15	16.23		
15	QPSK	36	20	16.10	16.14	16.14	16.10	17.7	1
15	QPSK	36	39	16.09	16.12	16.10	16.08		
15	QPSK	75	0	16.11	16.12	16.00	16.13		
15	16QAM	1	0	16.19	16.38	16.28	16.38		
15	16QAM	1	37	16.13	16.24	16.20	16.18	17.7	1
15	16QAM	1	74	16.21	16.15	16.14	16.13		
15	16QAM	36	0	15.30	15.21	15.18	15.18		
15	16QAM	36	20	15.08	15.17	15.13	15.09		
15	16QAM	36	39	15.14	15.14	15.14	15.08	16.7	2
15	16QAM	75	0	15.04	15.16	15.06	15.07		
15	64QAM	1	0	15.28	15.32	15.27	15.19		
15	64QAM	1	37	15.15	15.24	15.19	15.22		
15	64QAM	1	74	15.16	15.12	15.19	15.14	16.7	2
15	64QAM	36	0	14.16	14.25	14.17	14.20		
15	64QAM	36	20	14.14	14.23	14.07	14.14		
15	64QAM	36	39	14.13	14.25	14.18	14.15		
15	64QAM	75	0	14.00	14.11	14.13	13.90	15.7	3
15	256QAM	1	0	12.36	12.19	12.35	12.35		
15	256QAM	1	37	12.21	12.22	12.31	12.32		
15	256QAM	1	74	12.37	12.32	12.26	12.33		
15	256QAM	36	0	12.37	12.30	12.27	12.38	13.7	5
15	256QAM	36	20	12.24	12.22	12.31	12.35		
15	256QAM	36	39	12.37	12.24	12.32	12.33		
15	256QAM	75	0	12.25	12.22	12.34	12.29		
Channel				55290	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.22	17.39	17.18	17.16	18.7	0
10	QPSK	1	25	17.25	17.23	17.26	17.11		
10	QPSK	1	49	17.12	17.15	17.10	17.13		
10	QPSK	25	0	16.26	16.31	16.14	16.24		
10	QPSK	25	12	16.05	16.23	16.12	16.14	17.7	1
10	QPSK	25	25	16.07	16.09	16.09	16.03		
10	QPSK	50	0	16.17	16.16	16.10	16.21		
10	16QAM	1	0	16.21	16.40	16.24	16.33		
10	16QAM	1	25	16.20	16.24	16.13	16.25	17.7	1
10	16QAM	1	49	16.16	16.24	16.16	16.14		
10	16QAM	25	0	15.30	15.26	15.25	15.18		
10	16QAM	25	12	15.02	15.17	15.14	15.13		
10	16QAM	25	25	15.12	15.21	15.05	15.08	16.7	2
10	16QAM	50	0	15.03	15.23	15.03	15.04		
10	64QAM	1	0	15.33	15.31	15.26	15.24		
10	64QAM	1	25	15.20	15.25	15.26	15.23		
10	64QAM	1	49	15.14	15.19	15.08	15.15	16.7	2
10	64QAM	25	0	14.20	14.29	14.21	14.18		
10	64QAM	25	12	14.12	14.25	14.14	14.06		
10	64QAM	25	25	14.16	14.26	14.15	14.15		
10	64QAM	50	0	14.01	14.02	14.11	13.96	15.7	3
10	256QAM	1	0	12.36	12.24	12.42	12.30		
10	256QAM	1	25	12.19	12.16	12.26	12.24		
10	256QAM	1	49	12.31	12.36	12.28	12.24		
10	256QAM	25	0	12.42	12.41	12.27	12.41	13.7	5
10	256QAM	25	12	12.23	12.20	12.24	12.35		
10	256QAM	25	25	12.33	12.24	12.37	12.37		
10	256QAM	50	0	12.33	12.21	12.32	12.23		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.29	17.37	17.17	17.22	18.7	0
5	QPSK	1	12	17.15	17.21	17.27	17.13		
5	QPSK	1	24	17.05	17.24	17.11	17.11		
5	QPSK	12	0	16.31	16.29	16.18	16.27		
5	QPSK	12	7	16.07	16.14	16.11	16.10	17.7	1
5	QPSK	12	13	16.06	16.09	16.08	16.04		
5	QPSK	25	0	16.15	16.16	16.04	16.20		
5	16QAM	1	0	16.19	16.32	16.24	16.32		
5	16QAM	1	12	16.22	16.26	16.24	16.20	17.7	1
5	16QAM	1	24	16.21	16.14	16.18	16.14		
5	16QAM	12	0	15.21	15.24	15.25	15.15		
5	16QAM	12	7	15.06	15.17	15.08	15.18		
5	16QAM	12	13	15.08	15.13	15.09	15.18	16.7	2
5	16QAM	25	0	15.06	15.22	15.04	15.03		
5	64QAM	1	0	15.35	15.34	15.17	15.19		
5	64QAM	1	12	15.14	15.22	15.23	15.15		
5	64QAM	1	24	15.14	15.15	15.17	15.10	16.7	2
5	64QAM	12	0	14.20	14.24	14.18	14.14		
5	64QAM	12	7	14.21	14.24	14.13	14.12		
5	64QAM	12	13	14.16	14.20	14.12	14.09		
5	64QAM	25	0	13.95	14.07	14.08	13.96	15.7	3
5	256QAM	1	0	12.35	12.28	12.40	12.35		
5	256QAM	1	12	12.16	12.19	12.23	12.27		
5	256QAM	1	24	12.37	12.36	12.30	12.27		
5	256QAM	12	0	12.33	12.33	12.26	12.35	13.7	5
5	256QAM	12	7	12.24	12.26	12.27	12.32		
5	256QAM	12	13	12.27	12.29	12.33	12.31		
5	256QAM	25	0	12.34	12.26	12.29	12.21		



### Band 48 Ant4 EC13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.17	17.37	17.01	17.07	18.4	0
20	QPSK	1	49	17.17	17.33	17.13	17.00		
20	QPSK	1	99	17.17	17.25	17.03	16.93		
20	QPSK	50	0	16.19	16.35	16.03	15.94		
20	QPSK	50	24	16.22	16.32	15.99	16.03	17.4	1
20	QPSK	50	50	16.21	16.19	15.97	15.96		
20	QPSK	100	0	16.21	16.32	16.10	16.03		
20	16QAM	1	0	16.41	16.43	16.18	16.09		
20	16QAM	1	49	16.16	16.30	16.09	16.02	17.4	1
20	16QAM	1	99	16.21	16.27	15.98	16.00		
20	16QAM	50	0	15.16	15.28	15.06	15.15		
20	16QAM	50	24	15.34	15.40	15.08	15.03		
20	16QAM	50	50	15.20	15.26	15.04	15.05	16.4	2
20	16QAM	100	0	15.19	15.35	15.03	15.13		
20	64QAM	1	0	15.22	15.26	15.01	15.04		
20	64QAM	1	49	15.33	15.38	15.00	14.96		
20	64QAM	1	99	15.17	15.28	15.04	14.92	16.4	2
20	64QAM	50	0	14.27	14.33	14.03	14.11		
20	64QAM	50	24	14.23	14.27	14.15	14.11		
20	64QAM	50	50	14.18	14.19	13.90	14.07		
20	64QAM	100	0	14.21	14.36	14.08	14.10	15.4	3
20	256QAM	1	0	12.02	11.97	11.96	12.00		
20	256QAM	1	49	11.89	11.85	11.88	11.90		
20	256QAM	1	99	11.85	11.93	11.95	11.88		
20	256QAM	50	0	11.91	11.96	11.92	12.03	13.4	5
20	256QAM	50	24	11.89	11.93	11.92	11.89		
20	256QAM	50	50	11.90	11.92	11.87	11.86		
20	256QAM	100	0	11.91	11.81	11.87	11.92		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.92	17.10	16.96	17.09	18.4	0
15	QPSK	1	37	16.82	17.09	17.10	16.88		
15	QPSK	1	74	16.84	16.96	16.98	16.85		
15	QPSK	36	0	15.90	16.04	15.99	15.86		
15	QPSK	36	20	15.98	16.04	15.86	15.94	17.4	1
15	QPSK	36	39	15.98	15.96	15.93	15.92		
15	QPSK	75	0	15.90	16.05	16.01	15.98		
15	16QAM	1	0	16.16	16.13	16.04	16.04		
15	16QAM	1	37	15.82	15.98	16.01	15.87	17.4	1
15	16QAM	1	74	15.92	15.96	15.85	15.92		
15	16QAM	36	0	14.87	15.05	14.92	15.09		
15	16QAM	36	20	15.00	15.06	15.01	14.89		
15	16QAM	36	39	14.91	14.97	15.01	14.99	16.4	2
15	16QAM	75	0	14.92	15.08	14.96	15.00		
15	64QAM	1	0	14.93	14.95	14.86	14.90		
15	64QAM	1	37	15.01	15.11	14.89	14.90		
15	64QAM	1	74	14.94	14.95	14.91	14.78	16.4	2
15	64QAM	36	0	13.97	14.02	13.97	14.00		
15	64QAM	36	20	13.97	13.93	14.00	14.04		
15	64QAM	36	39	13.84	13.90	13.77	13.93		
15	64QAM	75	0	13.88	14.04	13.95	14.00	15.4	3
15	256QAM	1	0	11.98	11.82	11.91	11.95		
15	256QAM	1	37	11.85	11.77	11.84	11.82		
15	256QAM	1	74	11.73	11.80	11.84	11.75		
15	256QAM	36	0	11.76	11.85	11.87	11.95	13.4	5
15	256QAM	36	20	11.81	11.80	11.81	11.82		
15	256QAM	36	39	11.81	11.81	11.79	11.79		
15	256QAM	75	0	11.83	11.73	11.78	11.79		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	16.83	17.04	16.96	17.07	18.4	0
10	QPSK	1	25	16.86	17.09	17.09	16.94		
10	QPSK	1	49	16.83	16.96	16.95	16.85		
10	QPSK	25	0	15.94	16.02	15.99	15.88		
10	QPSK	25	12	15.89	16.01	15.84	15.89	17.4	1
10	QPSK	25	25	15.86	15.91	15.87	15.90		
10	QPSK	50	0	15.87	16.03	16.06	15.88		
10	16QAM	1	0	16.11	16.09	16.04	16.01		
10	16QAM	1	25	15.83	16.06	16.03	15.95	17.4	1
10	16QAM	1	49	15.90	15.94	15.90	15.89		
10	16QAM	25	0	14.84	14.99	15.03	15.09		
10	16QAM	25	12	15.04	15.10	14.97	14.92		
10	16QAM	25	25	14.90	14.95	14.93	14.91	16.4	2
10	16QAM	50	0	14.89	15.02	14.92	15.07		
10	64QAM	1	0	14.97	14.94	14.94	14.90		
10	64QAM	1	25	15.03	15.05	14.89	14.83		
10	64QAM	1	49	14.87	14.96	14.99	14.85	16.4	2
10	64QAM	25	0	13.94	14.03	13.93	13.98		
10	64QAM	25	12	13.91	13.93	14.08	14.06		
10	64QAM	25	25	13.87	13.86	13.87	13.94		
10	64QAM	50	0	13.96	14.02	13.98	14.03	15.4	3
10	256QAM	1	0	11.89	11.85	11.91	11.91		
10	256QAM	1	25	11.83	11.71	11.76	11.79		
10	256QAM	1	49	11.72	11.89	11.89	11.79		
10	256QAM	25	0	11.83	11.88	11.82	11.89	13.4	5
10	256QAM	25	12	11.76	11.88	11.82	11.80		
10	256QAM	25	25	11.77	11.86	11.83	11.73		
10	256QAM	50	0	11.80	11.73	11.79	11.79		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.92	17.13	16.93	17.10	18.4	0
5	QPSK	1	12	16.88	17.06	17.01	16.97		
5	QPSK	1	24	16.93	16.94	16.92	16.84		
5	QPSK	12	0	15.89	16.04	15.90	15.79		
5	QPSK	12	7	15.87	16.00	15.85	15.89	17.4	1
5	QPSK	12	13	15.95	15.85	15.85	15.89		
5	QPSK	25	0	15.92	15.99	16.05	15.91		
5	16QAM	1	0	16.16	16.17	16.06	16.06		
5	16QAM	1	12	15.86	16.04	16.02	15.90	17.4	1
5	16QAM	1	24	15.93	15.96	15.94	15.90		
5	16QAM	12	0	14.82	14.99	14.93	15.09		
5	16QAM	12	7	15.02	15.06	15.00	14.89		
5	16QAM	12	13	14.92	15.02	14.92	14.98	16.4	2
5	16QAM	25	0	14.94	15.10	14.88	15.09		
5	64QAM	1	0	14.92	14.91	14.87	14.98		
5	64QAM	1	12	15.02	15.12	14.94	14.81		
5	64QAM	1	24	14.90	15.04	14.93	14.87	16.4	2
5	64QAM	12	0	14.04	13.98	13.99	14.01		
5	64QAM	12	7	13.94	13.97	14.06	14.03		
5	64QAM	12	13	13.95	13.85	13.80	13.95		
5	64QAM	25	0	13.91	14.01	13.93	13.97	15.4	3
5	256QAM	1	0	11.90	11.84	11.84	11.97		
5	256QAM	1	12	11.78	11.82	11.80	11.81		
5	256QAM	1	24	11.75	11.83	11.87	11.85		
5	256QAM	12	0	11.80	11.86	11.86	11.98	13.4	5
5	256QAM	12	7	11.76	11.81	11.84	11.86		
5	256QAM	12	13	11.80	11.80	11.75	11.82		
5	256QAM	25	0	11.87	11.69	11.78	11.81		



### Band 48 Ant5 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.24	20.31	20.18	20.16	21.4	0
20	QPSK	1	49	20.21	20.25	20.21	20.16		
20	QPSK	1	99	20.19	20.24	20.09	20.14		
20	QPSK	50	0	19.22	19.34	19.29	19.27		
20	QPSK	50	24	19.20	19.33	19.15	19.06	20.4	1
20	QPSK	50	50	19.14	19.28	19.13	19.05		
20	QPSK	100	0	19.28	19.37	19.26	19.27		
20	16QAM	1	0	19.34	19.44	19.42	19.39		
20	16QAM	1	49	19.24	19.35	19.27	19.19	20.4	1
20	16QAM	1	99	19.25	19.29	19.22	19.11		
20	16QAM	50	0	18.30	18.43	18.32	18.25		
20	16QAM	50	24	18.34	18.41	18.29	18.22		
20	16QAM	50	50	18.38	18.40	18.34	18.15	19.4	2
20	16QAM	100	0	18.47	18.50	18.35	18.22		
20	64QAM	1	0	18.26	18.34	18.24	18.17		
20	64QAM	1	49	18.30	18.30	18.21	18.18		
20	64QAM	1	99	18.11	18.14	18.10	18.02	19.4	2
20	64QAM	50	0	17.38	17.48	17.35	17.24		
20	64QAM	50	24	17.19	17.22	17.17	17.16		
20	64QAM	50	50	17.27	17.42	17.40	17.29		
20	64QAM	100	0	17.51	17.46	17.33	17.36	18.4	3
20	256QAM	1	0	15.12	15.10	15.08	15.10		
20	256QAM	1	49	15.03	14.88	15.01	15.06		
20	256QAM	1	99	15.09	14.98	15.02	15.05		
20	256QAM	50	0	15.15	15.03	15.00	15.11	16.4	5
20	256QAM	50	24	14.99	14.85	15.07	15.01		
20	256QAM	50	50	15.13	14.88	15.02	15.14		
20	256QAM	100	0	15.05	14.91	14.93	14.98		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	20.17	20.26	20.12	20.02	21.4	0
15	QPSK	1	37	20.09	20.14	20.14	20.06		
15	QPSK	1	74	20.09	20.13	19.98	20.02		
15	QPSK	36	0	19.07	19.27	19.22	19.20		
15	QPSK	36	20	19.15	19.22	19.02	19.06	20.4	1
15	QPSK	36	39	18.99	19.15	19.10	18.99		
15	QPSK	75	0	19.25	19.29	19.19	19.13		
15	16QAM	1	0	19.28	19.34	19.34	19.27		
15	16QAM	1	37	19.15	19.22	19.18	19.15	20.4	1
15	16QAM	1	74	19.16	19.15	19.16	19.06		
15	16QAM	36	0	18.25	18.39	18.20	18.17		
15	16QAM	36	20	18.20	18.36	18.21	18.12		
15	16QAM	36	39	18.24	18.32	18.20	18.01	19.4	2
15	16QAM	75	0	18.40	18.40	18.20	18.12		
15	64QAM	1	0	18.14	18.25	18.10	18.05		
15	64QAM	1	37	18.25	18.25	18.08	18.06		
15	64QAM	1	74	18.29	17.98	18.02	18.03	19.4	2
15	64QAM	36	0	17.24	17.40	17.22	17.18		
15	64QAM	36	20	17.13	17.13	17.13	17.05		
15	64QAM	36	39	17.17	17.31	17.28	17.22		
15	64QAM	75	0	17.44	17.34	17.30	17.22	18.4	3
15	256QAM	1	0	15.07	14.99	14.94	15.03		
15	256QAM	1	37	14.93	14.85	14.92	14.99		
15	256QAM	1	74	14.98	14.90	14.95	14.95		
15	256QAM	36	0	15.07	14.88	14.95	15.05	16.4	5
15	256QAM	36	20	14.92	14.76	15.01	14.98		
15	256QAM	36	39	15.05	14.82	14.87	15.08		
15	256QAM	75	0	14.92	14.85	14.78	14.93		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	20.13	20.24	20.08	20.07	21.4	0
10	QPSK	1	25	20.11	20.15	20.11	20.10		
10	QPSK	1	49	20.08	20.11	20.04	20.06		
10	QPSK	25	0	19.18	19.27	19.21	19.22		
10	QPSK	25	12	19.07	19.22	19.03	19.03	20.4	1
10	QPSK	25	25	19.03	19.22	19.04	18.99		
10	QPSK	50	0	19.23	19.24	19.21	19.24		
10	16QAM	1	0	19.28	19.32	19.33	19.31		
10	16QAM	1	25	19.18	19.25	19.15	19.10	20.4	1
10	16QAM	1	49	19.22	19.20	19.10	18.98		
10	16QAM	25	0	18.23	18.32	18.18	18.13		
10	16QAM	25	12	18.28	18.35	18.17	18.12		
10	16QAM	25	25	18.34	18.33	18.25	18.11	19.4	2
10	16QAM	50	0	18.35	18.43	18.23	18.07		
10	64QAM	1	0	18.22	18.29	18.21	18.03		
10	64QAM	1	25	18.27	18.26	18.13	18.09		
10	64QAM	1	49	18.06	18.04	18.02	18.00	19.4	2
10	64QAM	25	0	17.31	17.37	17.20	17.16		
10	64QAM	25	12	17.15	17.11	17.08	17.06		
10	64QAM	25	25	17.23	17.39	17.28	17.14		
10	64QAM	50	0	17.41	17.40	17.25	17.24	18.4	3
10	256QAM	1	0	15.08	14.95	15.01	15.06		
10	256QAM	1	25	14.91	14.82	14.93	15.02		
10	256QAM	1	49	14.98	14.90	14.91	14.99		
10	256QAM	25	0	15.01	14.93	14.88	14.97	16.4	5
10	256QAM	25	12	14.85	14.75	15.00	14.93		
10	256QAM	25	25	15.05	14.79	14.95	15.08		
10	256QAM	50	0	14.95	14.80	14.82	14.88		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.14	20.23	20.04	20.04	21.4	0
5	QPSK	1	12	20.18	20.20	20.18	20.08		
5	QPSK	1	24	20.08	20.17	20.01	20.07		
5	QPSK	12	0	19.10	19.27	19.24	19.15		
5	QPSK	12	7	19.16	19.21	19.10	18.99	20.4	1
5	QPSK	12	13	19.03	19.16	19.00	18.99		
5	QPSK	25	0	19.18	19.24	19.15	19.20		
5	16QAM	1	0	19.31	19.39	19.28	19.27		
5	16QAM	1	12	19.12	19.24	19.12	19.08	20.4	1
5	16QAM	1	24	19.15	19.18	19.15	19.08		
5	16QAM	12	0	18.24	18.29	18.18	18.15		
5	16QAM	12	7	18.20	18.32	18.16	18.09		
5	16QAM	12	13	18.30	18.35	18.28	18.11	19.4	2
5	16QAM	25	0	18.43	18.37	18.23	18.11		
5	64QAM	1	0	18.20	18.21	18.15	18.10		
5	64QAM	1	12	18.20	18.21	18.14	18.07		
5	64QAM	1	24	18.03	18.09	18.03	18.07	19.4	2
5	64QAM	12	0	17.34	17.42	17.23	17.13		
5	64QAM	12	7	17.10	17.13	17.11	17.05		
5	64QAM	12	13	17.16	17.34	17.29	17.24		
5	64QAM	25	0	17.48	17.31	17.27	17.24	18.4	3
5	256QAM	1	0	15.06	15.05	15.02	15.06		
5	256QAM	1	12	14.94	14.80	14.94	14.92		
5	256QAM	1	24	15.00	14.83	14.97	14.90		
5	256QAM	12	0	15.07	14.93	14.85	15.03	16.4	5
5	256QAM	12	7	14.84	14.75	14.95	14.93		
5	256QAM	12	13	15.07	14.74	14.87	15.02		
5	256QAM	25	0	15.01	14.82	14.87	14.88		



### Band 48 Ant8 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	10.98	11.23	11.19	11.16	12.2	0
20	QPSK	1	49	11.12	11.16	11.13	11.17		
20	QPSK	1	99	11.06	11.19	11.05	10.99		
20	QPSK	50	0	10.28	10.36	10.26	10.26		
20	QPSK	50	24	10.16	10.28	10.22	10.25	11.2	1
20	QPSK	50	50	10.08	10.19	10.13	10.12		
20	QPSK	100	0	10.05	10.19	10.06	10.07		
20	16QAM	1	0	10.32	10.33	10.34	10.39		
20	16QAM	1	49	10.20	10.25	10.26	10.24	10.2	2
20	16QAM	1	99	10.13	10.27	10.13	10.19		
20	16QAM	50	0	9.14	9.18	9.04	9.05		
20	16QAM	50	24	9.01	9.17	9.05	9.07		
20	16QAM	50	50	9.14	9.21	9.01	9.14	10.2	2
20	16QAM	100	0	9.20	9.20	9.11	9.16		
20	64QAM	1	0	9.12	9.34	9.21	9.23		
20	64QAM	1	49	9.28	9.36	9.17	9.24		
20	64QAM	1	99	9.14	9.25	9.11	9.19	9.2	3
20	64QAM	50	0	8.18	8.34	8.12	8.17		
20	64QAM	50	24	8.21	8.20	8.15	8.17		
20	64QAM	50	50	8.24	8.30	8.22	8.20		
20	64QAM	100	0	7.97	8.04	7.98	7.95	7.2	5
20	256QAM	1	0	6.07	5.94	6.03	6.04		
20	256QAM	1	49	5.86	5.83	5.81	5.99		
20	256QAM	1	99	6.02	5.91	5.91	6.08		
20	256QAM	50	0	6.09	5.86	6.01	5.95	7.2	5
20	256QAM	50	24	6.01	5.87	5.82	5.97		
20	256QAM	50	50	6.00	5.83	5.91	6.09		
20	256QAM	100	0	5.86	5.87	5.90	5.89		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	10.94	11.17	11.06	11.03	12.2	0
15	QPSK	1	37	11.05	11.11	11.03	11.13		
15	QPSK	1	74	10.94	11.07	10.93	10.95		
15	QPSK	36	0	10.15	10.30	10.17	10.17		
15	QPSK	36	20	10.09	10.14	10.18	10.15	11.2	1
15	QPSK	36	39	9.96	10.09	10.02	10.06		
15	QPSK	75	0	9.92	10.09	9.96	9.95		
15	16QAM	1	0	10.20	10.26	10.30	10.31		
15	16QAM	1	37	10.06	10.20	10.21	10.18	11.2	1
15	16QAM	1	74	9.99	10.23	10.07	10.15		
15	16QAM	36	0	9.01	9.09	8.94	8.94		
15	16QAM	36	20	8.93	9.04	8.97	9.00		
15	16QAM	36	39	9.01	9.16	8.91	9.11	10.2	2
15	16QAM	75	0	9.15	9.09	9.07	9.10		
15	64QAM	1	0	9.00	9.30	9.09	9.08		
15	64QAM	1	37	9.20	9.27	9.13	9.18		
15	64QAM	1	74	9.04	9.21	8.98	9.12	9.2	3
15	64QAM	36	0	8.04	8.27	8.05	8.10		
15	64QAM	36	20	8.10	8.11	8.01	8.09		
15	64QAM	36	39	8.16	8.20	8.18	8.13		
15	64QAM	75	0	7.88	7.89	7.83	7.86	7.2	5
15	256QAM	1	0	5.99	5.84	5.91	5.99		
15	256QAM	1	37	5.73	5.76	5.75	5.85		
15	256QAM	1	74	5.89	5.84	5.77	5.96		
15	256QAM	36	0	5.95	5.80	5.94	5.92	7.2	5
15	256QAM	36	20	5.88	5.77	5.71	5.91		
15	256QAM	36	39	5.92	5.79	5.80	6.02		
15	256QAM	75	0	5.82	5.79	5.79	5.76		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	10.91	11.19	11.15	11.12	12.2	0
10	QPSK	1	25	10.98	11.06	11.06	11.11		
10	QPSK	1	49	11.03	11.12	10.94	10.84		
10	QPSK	25	0	10.24	10.23	10.21	10.20		
10	QPSK	25	12	10.02	10.24	10.14	10.15	11.2	1
10	QPSK	25	25	9.94	10.11	10.01	10.07		
10	QPSK	50	0	9.96	10.10	9.98	9.95		
10	16QAM	1	0	10.17	10.28	10.25	10.26		
10	16QAM	1	25	10.08	10.16	10.16	10.13	11.2	1
10	16QAM	1	49	10.01	10.14	10.08	10.13		
10	16QAM	25	0	9.01	9.07	8.91	9.01		
10	16QAM	25	12	8.93	9.05	9.01	9.01		
10	16QAM	25	25	9.01	9.07	8.88	9.08	10.2	2
10	16QAM	50	0	9.16	9.13	8.98	9.05		
10	64QAM	1	0	9.08	9.20	9.15	9.16		
10	64QAM	1	25	9.16	9.30	9.10	9.19		
10	64QAM	1	49	9.00	9.16	9.00	9.15	9.2	3
10	64QAM	25	0	8.08	8.27	8.03	8.10		
10	64QAM	25	12	8.10	8.15	8.08	8.12		
10	64QAM	25	25	8.19	8.23	8.16	8.16		
10	64QAM	50	0	7.84	7.92	7.90	7.81	7.2	5
10	256QAM	1	0	5.95	5.85	5.89	5.96		
10	256QAM	1	25	5.81	5.69	5.75	5.90		
10	256QAM	1	49	5.90	5.83	5.84	6.02		
10	256QAM	25	0	5.98	5.79	5.94	5.82	7.2	5
10	256QAM	25	12	5.91	5.74	5.71	5.82		
10	256QAM	25	25	5.82	5.80	5.81	5.99		
10	256QAM	50	0	5.82	5.75	5.80	5.82		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	10.90	11.17	11.15	11.10	12.2	0
5	QPSK	1	12	11.06	11.06	11.08	11.04		
5	QPSK	1	24	10.91	11.10	10.91	10.86		
5	QPSK	12	0	10.14	10.29	10.13	10.17		
5	QPSK	12	7	10.09	10.20	10.14	10.20	11.2	1
5	QPSK	12	13	10.05	10.05	10.03	10.01		
5	QPSK	25	0	9.94	10.05	10.02	10.00		
5	16QAM	1	0	10.23	10.20	10.19	10.31		
5	16QAM	1	12	10.17	10.11	10.20	10.14	11.2	1
5	16QAM	1	24	10.02	10.21	10.09	10.09		
5	16QAM	12	0	9.00	9.05	8.91	8.90		
5	16QAM	12	7	8.96	9.04	8.92	8.93		
5	16QAM	12	13	9.03	9.12	8.91	8.99	10.2	2
5	16QAM	25	0	9.14	9.15	9.00	9.08		
5	64QAM	1	0	9.08	9.20	9.14	9.15		
5	64QAM	1	12	9.15	9.27	9.06	9.17		
5	64QAM	1	24	9.09	9.17	8.98	9.05	9.2	3
5	64QAM	12	0	8.11	8.30	8.01	8.11		
5	64QAM	12	7	8.10	8.09	8.12	8.02		
5	64QAM	12	13	8.12	8.24	8.08	8.07		
5	64QAM	25	0	7.87	7.99	7.91	7.85	7.2	5
5	256QAM	1	0	5.95	5.90	5.97	5.93		
5	256QAM	1	12	5.78	5.78	5.68	5.93		
5	256QAM	1	24	5.88	5.78	5.76	5.95		
5	256QAM	12	0	5.95	5.71	5.98	5.82	7.2	5
5	256QAM	12	7	5.98	5.74	5.68	5.92		
5	256QAM	12	13	5.87	5.79	5.83	6.03		
5	256QAM	25	0	5.80	5.82	5.81	5.82		



## Reduced Power Level for 5GNR ECI4

### Par270 n77\_FCC PC2&3 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	22.36	22.41	22.29	23.5	0.0
100	PI/2 BPSK	1	137	22.32	22.44	22.35		
100	PI/2 BPSK	1	271	22.10	22.25	22.15		
100	PI/2 BPSK	135	0	22.31	22.46	22.31	23.5	0.0
100	PI/2 BPSK	135	69	22.41	22.55	22.43	23.5	0.0
100	PI/2 BPSK	135	138	22.35	22.42	22.26	23.5	0.0
100	PI/2 BPSK	270	0	22.38	22.53	22.43	23.5	0.0
100	QPSK	1	1	22.39	22.58	22.24	23.5	0.0
100	QPSK	1	137	22.26	22.34	22.20		
100	QPSK	1	271	22.16	22.24	22.18		
100	QPSK	135	0	22.16	22.29	22.18	23.5	0.0
100	QPSK	135	69	22.45	22.56	22.43	23.5	0.0
100	QPSK	135	138	22.24	22.37	22.21	23.5	0.0
100	QPSK	270	0	22.41	22.52	22.46	23.5	0.0
100	16QAM	1	1	22.22	22.07	22.04	23.5	0.0
100	64QAM	1	1	22.26	22.14	22.08	23.5	0.0
100	256QAM	1	1	21.28	21.20	21.12	22.0	1.5
Channel				649668	656000	662334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	22.29	22.52	22.17	23.5	0.0
Channel				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	22.26	22.44	22.11	23.5	0.0
Channel				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	22.29	22.49	22.08	23.5	0.0
Channel				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	22.30	22.54	22.20	23.5	0.0
Channel				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	22.24	22.53	22.12	23.5	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	22.28	22.48	22.12	23.5	0.0
Channel				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3965.01		
30	QPSK	1	1	22.34	22.49	22.20	23.5	0.0
Channel				647500	656000	664500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	22.24	22.50	22.12	23.5	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	22.29	22.48	22.15	23.5	0.0
Channel				647168	656000	664834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	22.24	22.52	22.18	23.5	0.0
Channel				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	22.26	22.51	22.12	23.5	0.0

### Part27Q n77\_FCC PC2&3 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		22.29		23.5	0.0
100	PI/2 BPSK	1	137		22.56			
100	PI/2 BPSK	1	271		22.42			
100	PI/2 BPSK	135	0		22.46		23.5	0.0
100	PI/2 BPSK	135	69		22.57		23.5	0.0
100	PI/2 BPSK	135	138		22.53		23.5	0.0
100	PI/2 BPSK	270	0		22.50		23.5	0.0
100	QPSK	1	1		22.61		23.5	0.0
100	QPSK	1	137		22.25			
100	QPSK	1	271		22.44			
100	QPSK	135	0		22.52		23.5	0.0
100	QPSK	135	69		22.55		23.5	0.0
100	QPSK	135	138		22.39		23.5	0.0
100	QPSK	270	0		22.48		23.5	0.0
100	16QAM	1	1		22.09		23.5	0.0
100	64QAM	1	1		22.13		23.5	0.0
100	256QAM	1	1		21.15		22.0	1.5
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	22.50	22.54	22.52	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.45	22.52	22.52	23.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	22.48	22.54	22.57	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	22.52	22.46	22.52	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	22.49	22.57	22.51	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.54	22.49	22.53	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	22.46	22.53	22.53	23.5	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	22.56	22.56	22.46	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.55	22.50	22.53	23.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	22.55	22.54	22.47	23.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	22.49	22.55	22.56	23.5	0.0





### Part270 n78\_FCC PC3 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		21.99		23.5	0.0	
100	PI/2 BPSK	1	137		22.08				
100	PI/2 BPSK	1	271		21.92				
100	PI/2 BPSK	135	0		21.55		23.2	0.5	
100	PI/2 BPSK	135	69		22.10		23.5	0.0	
100	PI/2 BPSK	135	138		21.46		23.2	0.5	
100	PI/2 BPSK	270	0		21.54				
100	QPSK	1	1		22.14		23.5	0.0	
100	QPSK	1	137		22.11				
100	QPSK	1	271		21.89				
100	QPSK	135	0		20.99		22.7	1.0	
100	QPSK	135	69		22.08		23.5	0.0	
100	QPSK	135	138		20.90		22.7	1.0	
100	QPSK	270	0		21.01				
100	16QAM	1	1		20.98		22.7	1.0	
100	64QAM	1	1		19.34		21.2	2.5	
100	256QAM	1	1		17.66		19.2	4.5	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		22.03	21.98	23.5	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		22.10	22.00	23.5	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		21.99	22.01	22.00	23.5	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		22.08	22.07	22.03	23.5	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		21.99	21.99	22.02	23.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		21.99	22.07	22.00	23.5	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1		22.09	22.03	21.98	23.5	0.0
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1		22.08	22.05	22.06	23.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1		22.09	22.08	22.08	23.5	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1		22.08	22.06	21.99	23.5	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		22.09	22.01	22.09	23.5	0.0

### Part27Q 78\_FCC PC3 Ant4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		22.32		23.5	0.0	
100	PI/2 BPSK	1	137		22.37				
100	PI/2 BPSK	1	271		22.26				
100	PI/2 BPSK	135	0		21.77		23.2	0.5	
100	PI/2 BPSK	135	69		22.30		23.5	0.0	
100	PI/2 BPSK	135	138		21.76		23.2	0.5	
100	PI/2 BPSK	270	0		21.70				
100	QPSK	1	1		22.39		23.5	0.0	
100	QPSK	1	137		22.35				
100	QPSK	1	271		22.21				
100	QPSK	135	0		21.20		22.7	1.0	
100	QPSK	135	69		22.26		23.5	0.0	
100	QPSK	135	138		21.21		22.7	1.0	
100	QPSK	270	0		21.25				
100	16QAM	1	1		20.95		22.7	1.0	
100	64QAM	1	1		19.37		21.2	2.5	
100	256QAM	1	1		17.91		19.2	4.5	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		22.31	22.33	22.30	23.5	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		22.25	22.29	22.30	23.5	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		22.26	22.31	22.25	23.5	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		22.29	22.34	22.25	23.5	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		22.26	22.29	22.27	23.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		22.24	22.27	22.24	23.5	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		22.30	22.29	22.29	23.5	0.0
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		22.28	22.32	22.24	23.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		22.33	22.24	22.34	23.5	0.0
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		22.26	22.33	22.26	23.5	0.0
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		22.28	22.35	22.29	23.5	0.0



## Reduced Power Level for WWAN

### ECI6

GSM850 Ant0 ECI6									
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		824.2	836.4	848.8		
GSM850 TX Channel	128	189	251	824.2	836.4	848.8	824.2	836.4	848.8
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	824.2	836.4	848.8
GSM 1 Tx slot	32.30	32.74	32.52	33.50	23.30	23.74	23.52	24.50	24.50
GPRS 1 Tx slot	32.24	32.73	32.47	33.50	23.24	23.73	23.47	24.50	24.50
GPRS 2 Tx slots	31.23	31.57	31.62	32.50	25.23	25.57	25.62	26.50	26.50
GPRS 3 Tx slots	29.51	29.78	29.84	31.50	25.25	25.52	25.58	27.24	27.24
GPRS 4 Tx slots	28.50	28.79	28.55	30.50	25.50	25.79	25.55	27.50	27.50
EDGE 1 Tx slot	26.60	26.81	26.97	27.50	17.60	17.81	17.97	19.50	19.50
EDGE 2 Tx slots	25.55	25.50	25.86	27.00	19.55	19.59	19.86	21.00	21.00
EDGE 3 Tx slots	23.12	23.26	23.36	24.50	18.86	19.00	19.10	20.24	20.24
EDGE 4 Tx slots	22.08	22.10	22.27	23.00	19.08	19.10	19.27	20.00	20.00

  

GSM1900 Ant0 ECI6									
	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		1850.2	1960	1999.8		
GSM1900 TX Channel	512	661	810	1850.2	1960	1999.8	1850.2	1960	1999.8
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1960	1999.8	1850.2	1960	1999.8
GSM 1 Tx slot	28.66	28.77	28.70	30.20	19.66	19.77	19.70	21.20	21.20
GPRS 1 Tx slot	28.63	28.76	28.68	30.20	19.63	19.76	19.68	21.20	21.20
GPRS 2 Tx slots	25.43	25.30	25.36	27.20	19.43	19.30	19.36	21.20	21.20
GPRS 3 Tx slots	24.14	24.07	24.20	25.40	19.88	19.81	19.94	21.14	21.14
GPRS 4 Tx slots	22.98	23.08	23.03	24.20	19.98	20.08	20.03	21.20	21.20
EDGE 1 Tx slot	25.89	25.95	25.97	26.50	16.89	16.95	16.97	17.50	17.50
EDGE 2 Tx slots	24.78	24.82	24.84	25.50	18.78	18.82	18.84	19.50	19.50
EDGE 3 Tx slots	22.58	22.61	22.63	23.50	18.32	18.35	18.37	19.24	19.24
EDGE 4 Tx slots	21.28	21.34	21.41	22.50	18.28	18.34	18.41	19.50	19.50

  

WCDMA II Ant0 ECI6					WCDMA V Ant0 ECI6				
Band	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
	9262	9400	9538		4132	4162	4233		
3GPP Rel 99 TX Channel	9262	9400	9538	4132	4162	4233	4132	4162	4233
Rx Channel	9662	9800	9938	4357	4407	4458	4357	4407	4458
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.4	846.6	826.4	836.4	846.6
3GPP Rel 99 AMR 12.2Kbps	16.29	16.30	16.19	17.40	22.92	23.10	23.05	24.00	24.00
3GPP Rel 99 RMC 12.2Kbps	16.40	16.49	16.42	17.40	23.09	23.24	23.22	24.00	24.00
3GPP Rel 6 HSDPA Subtest-1	15.60	15.47	15.55	16.50	22.35	22.26	22.29	23.00	23.00
3GPP Rel 6 HSDPA Subtest-2	15.72	15.62	15.48	16.50	22.29	22.37	22.26	23.00	23.00
3GPP Rel 6 HSDPA Subtest-3	15.25	15.02	15.03	16.00	22.05	21.83	21.86	22.50	22.50
3GPP Rel 6 HSDPA Subtest-4	15.19	15.10	15.10	16.00	22.02	21.91	21.87	22.50	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	15.47	15.55	15.34	16.50	22.26	22.35	22.16	23.00	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	15.37	15.71	15.47	16.50	22.17	22.50	22.30	23.00	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	14.99	15.07	14.88	16.00	21.80	21.88	21.67	22.50	22.50
3GPP Rel 8 DC-HSDPA Subtest-4	14.93	15.26	15.11	16.00	21.62	22.04	21.92	22.50	22.50
3GPP Rel 6 HSUPA Subtest-1	15.66	15.48	15.57	16.50	22.45	22.31	22.36	23.00	23.00
3GPP Rel 6 HSUPA Subtest-2	13.62	13.85	13.51	14.50	20.45	20.49	20.27	21.00	21.00
3GPP Rel 6 HSUPA Subtest-3	14.60	14.64	14.48	15.50	21.37	21.37	21.23	22.00	22.00
3GPP Rel 6 HSUPA Subtest-4	13.67	13.63	13.50	14.50	20.47	20.39	20.27	21.00	21.00
3GPP Rel 6 HSUPA Subtest-5	15.67	15.71	15.55	16.50	22.45	22.45	22.35	23.00	23.00



Band 2 Ant0 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up time (min)	MPR (dB)	
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 4 Freq.	Ch. 5 Freq.	Ch. 6 Freq.	Ch. 7 Freq.			
20	QPSK	1	0	18.31	18.32	18.29	18.30			
20	QPSK	1	20	18.32	18.33	18.30	18.31			
20	QPSK	1	40	18.34	18.35	18.32	18.33			
20	QPSK	50	0	17.43	17.44	17.38	17.41			
20	QPSK	50	20	17.44	17.45	17.39	17.42			
20	QPSK	50	40	17.36	17.42	17.38	17.41			
20	QPSK	100	0	17.35	17.36	17.31	17.34			
20	QPSK	100	20	17.36	17.37	17.32	17.35			
20	QPSK	100	40	17.19	17.20	17.14	17.17			
20	QPSK	150	0	17.13	17.26	17.22	17.25			
20	QPSK	150	20	17.16	17.27	17.23	17.26			
20	QPSK	150	40	16.11	16.19	16.05	16.12			
20	QPSK	150	60	16.16	16.21	16.16	16.18			
20	QPSK	150	80	16.22	16.27	16.22	16.24			
20	QPSK	150	100	16.24	16.29	16.24	16.26			
20	QPSK	150	120	15.11	15.19	15.09	15.14			
20	QPSK	150	140	15.18	15.26	15.20	15.23			
20	QPSK	150	160	15.11	15.22	15.19	15.21			
20	QPSK	150	180	15.20	15.25	15.15	15.15			
20	QPSK	150	200	15.32	15.30	15.22	15.24			
20	QPSK	150	220	15.16	15.18	15.14	15.16			
20	QPSK	150	240	16.15	16.20	16.15	16.18			
20	QPSK	150	260	16.24	16.28	16.24	16.26			
20	QPSK	150	280	16.27	16.31	16.27	16.29			
20	QPSK	150	300	15.14	15.23	15.19	15.21			
20	QPSK	150	320	15.14	15.23	15.19	15.21			
20	QPSK	150	340	15.14	15.23	15.19	15.21			
20	QPSK	150	360	15.14	15.23	15.19	15.21			
20	QPSK	150	380	15.14	15.23	15.19	15.21			
20	QPSK	150	400	15.14	15.23	15.19	15.21			
20	QPSK	150	420	15.14	15.23	15.19	15.21			
20	QPSK	150	440	15.14	15.23	15.19	15.21			
20	QPSK	150	460	15.14	15.23	15.19	15.21			
20	QPSK	150	480	15.14	15.23	15.19	15.21			
20	QPSK	150	500	15.14	15.23	15.19	15.21			
20	QPSK	150	520	15.14	15.23	15.19	15.21			
20	QPSK	150	540	15.14	15.23	15.19	15.21			
20	QPSK	150	560	15.14	15.23	15.19	15.21			
20	QPSK	150	580	15.14	15.23	15.19	15.21			
20	QPSK	150	600	15.14	15.23	15.19	15.21			
20	QPSK	150	620	15.14	15.23	15.19	15.21			
20	QPSK	150	640	15.14	15.23	15.19	15.21			
20	QPSK	150	660	15.14	15.23	15.19	15.21			
20	QPSK	150	680	15.14	15.23	15.19	15.21			
20	QPSK	150	700	15.14	15.23	15.19	15.21			
20	QPSK	150	720	15.14	15.23	15.19	15.21			
20	QPSK	150	740	15.14	15.23	15.19	15.21			
20	QPSK	150	760	15.14	15.23	15.19	15.21			
20	QPSK	150	780	15.14	15.23	15.19	15.21			
20	QPSK	150	800	15.14	15.23	15.19	15.21			
20	QPSK	150	820	15.14	15.23	15.19	15.21			
20	QPSK	150	840	15.14	15.23	15.19	15.21			
20	QPSK	150	860	15.14	15.23	15.19	15.21			
20	QPSK	150	880	15.14	15.23	15.19	15.21			
20	QPSK	150	900	15.14	15.23	15.19	15.21			
20	QPSK	150	920	15.14	15.23	15.19	15.21			
20	QPSK	150	940	15.14	15.23	15.19	15.21			
20	QPSK	150	960	15.14	15.23	15.19	15.21			
20	QPSK	150	980	15.14	15.23	15.19	15.21			
20	QPSK	150	1000	15.14	15.23	15.19	15.21			

Band 4 Ant0 EC16										
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turn-up time (min)	MPR (dB)	
Channel	Ch. 1 Freq.	Ch. 2 Freq.	Ch. 3 Freq.	Ch. 4 Freq.	Ch. 5 Freq.	Ch. 6 Freq.	Ch. 7 Freq.			
20	QPSK	1	0	18.32	18.33	18.30	18.31			
20	QPSK	1	20	18.33	18.34	18.30	18.31			
20	QPSK	1	40	18.35	18.36	18.32	18.33			
20	QPSK	50	0	17.77	17.82	17.67	17.67			
20	QPSK	50	20	17.72	17.82	17.67	17.67			
20	QPSK	50	40	17.80	17.70	17.62	17.61			
20	QPSK	100	0	17.62	17.73	17.68	17.68			
20	QPSK	100	20	17.61	17.66	17.51	17.51			
20	QPSK	100	40	17.51	17.66	17.51	17.51			
20	QPSK	150	0	17.50	17.58	17.52	17.52			
20	QPSK	150	20	16.87	16.97	16.89	16.89			
20	QPSK	150	40	16.87	16.87	16.87	16.87			
20	QPSK	150	60	16.87	16.87	16.84	16.84			
20	QPSK	150	80	16.75	16.74	16.63	16.63			
20	QPSK	150	100	16.63	16.75	16.67	16.67			
20	QPSK	150	120	16.52	16.57	16.51	16.51			
20	QPSK	150	140	16.50	16.55	16.50	16.50			
20	QPSK	150	160	15.70	15.75	15.74	15.74			
20	QPSK	150	180	15.70	15.86	15.78	15.78			
20	QPSK	150	200	15.58	15.70	15.69	15.69			
20	QPSK	150	220	15.58	15.72	15.68	15.68			
20	QPSK	150	240	15.70	15.74	15.63	15.63			
20	QPSK	150	260	15.70	15.74	15.63	15.63			
20	QPSK	150	280	15.70	15.74	15.63	15.63			
20	QPSK	150	300	15.70	15.74	15.63	15.63			
20	QPSK	150	320	15.70	15.74	15.63	15.63			
20	QPSK	150	340	15.70	15.74	15.63	15.63			
20	QPSK	150	360	15.70	15.74	15.63	15.63			
20	QPSK	150	380	15.70	15.74	15.63	15.63			
20	QPSK	150	400	15.70	15.74	15.63	15.63			
20	QPSK	150	420	15.70	15.74	15.63	15.63			
20	QPSK	150	440	15.70	15.74	15.63	15.63			
20	QPSK	150	460	15.70	15.74	15.63	15.63			
20	QPSK	150	480	15.70	15.74	15.63	15.63			
20	QPSK	150	500	15.70	15.74	15.63	15.63			
20	QPSK	150	520	15.70	15.74	15.63	15.63			
20	QPSK	150	540	15.70	15.74	15.63	15.63			
20	QPSK	150	560	15.70	15.74	15.63	15.63			
20	QPSK	150	580	15.70	15.74	15.63	15.63			
20	QPSK	150	600	15.70	15.74	15.63	15.63			
20	QPSK	150	620	15.70	15.74	15.63	15.63			
20	QPSK	150	640	15.70	15.74	15.63	15.63			
20	QPSK	150	660	15.70	15.74	15.63	15.63			
20	QPSK	150	680	15.70	15.74	15.63	15.63			
20	QPSK	150	700	15.70	15.74	15.63	15.63			
20	QPSK	150	720	15.70	15.74	15.63	15.63			
20	QPSK	150	740	15.70	15.74	15.63	15.63			
20	QPSK	150	760	15.70	15.74	15.63	15.63			
20	QPSK	150	780	15.70	15.74	15.63	15.63			
20	QPSK	150	800	15.70	15.74	15.63	15.63			
20	QPSK	150	820	15.70	15.74	15.63	15.63			
20	QPSK	150	840	15.70	15.74	15.63	15.63			
20	QPSK	150	860	15.70	15.74	15.63	15.63			
20	QPSK	150	880	15.70	15.74	15.63	15.63			
20	QPSK	150	900	15.70	15.74	15.63	15.63			
20	QPSK	150	920	15.70	15.74	15.63	15.63			
20	QPSK	150	940	15.70	15.74	15.63	15.63			
20</										



Band 12 Ant0 EC16																	
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)									
Channel										704	707.5	711					
10	QPSK	1	0	22.70	22.77	22.73	24	0									
10	QPSK	1	25	22.84	22.82	22.86											
10	QPSK	1	49	22.61	22.63	22.56											
10	QPSK	25	0	21.96	21.66	21.52											
10	QPSK	25	12	21.52	21.63	21.52											
10	QPSK	25	25	21.52	21.60	21.50											
10	QPSK	50	0	21.56	21.66	21.57											
10	16QAM	1	0	21.52	21.66	21.61											
10	16QAM	1	25	21.47	21.53	21.48	23	1									
10	16QAM	1	49	21.48	21.57	21.51											
10	16QAM	25	0	20.59	20.59	20.47											
10	16QAM	25	12	20.39	20.51	20.44											
10	16QAM	25	25	20.51	20.57	20.51											
10	16QAM	50	0	20.59	20.59	20.55											
10	16QAM	50	12	20.53	20.50	20.44											
10	16QAM	50	25	20.54	20.50	20.47											
10	16QAM	25	0	19.54	19.58	19.47											
10	16QAM	25	12	19.41	19.52	19.44											
10	16QAM	25	25	19.56	19.58	19.53											
10	16QAM	50	0	19.38	19.51	19.45	21	3									
10	16QAM	50	12	19.77	19.66	19.79											
10	16QAM	50	25	19.70	19.69	19.67											
10	256QAM	1	49	17.78	17.70	17.74	19	5									
10	256QAM	1	25	17.82	17.82	17.74											
10	256QAM	25	12	17.74	17.78	17.75											
10	256QAM	25	25	17.82	17.78	17.74											
10	256QAM	50	0	17.82	17.78	17.74											
Channel										2105	2105	2105	Time-up (min)	MPE (dB)			
Channel										701.5	707.5	713.5					
5	QPSK	1	0	22.59	22.71	22.67	24	0									
5	QPSK	1	24	22.44	22.63	22.50											
5	QPSK	12	0	21.46	21.62	21.48											
5	QPSK	12	7	21.47	21.67	21.44											
5	QPSK	12	13	21.44	21.48	21.47											
5	16QAM	1	0	21.42	21.54	21.43											
5	16QAM	1	12	21.33	21.41	21.32	23	1									
5	16QAM	1	24	21.34	21.63	21.37											
5	16QAM	12	0	20.41	20.46	20.43											
5	16QAM	12	7	20.33	20.43	20.34											
5	16QAM	12	13	20.46	20.48	20.43											
5	16QAM	25	0	20.41	20.42	20.37											
5	16QAM	25	0	20.55	20.55	20.50											
5	16QAM	25	12	20.54	20.50	20.47											
5	16QAM	25	25	20.45	20.57	20.38											
5	16QAM	50	0	19.43	19.52	19.37											
5	16QAM	50	12	19.54	19.63	19.37											
5	16QAM	50	25	19.40	19.45	19.44											
5	16QAM	25	0	19.33	19.38	19.40											
5	256QAM	1	12	17.75	17.82	17.76	19	5									
5	256QAM	1	24	17.79	17.77	17.72											
5	256QAM	12	0	17.84	17.82	17.81											
5	256QAM	12	7	17.75	17.79	17.73											
5	256QAM	12	13	17.72	17.71	17.74											
5	256QAM	25	0	17.69	17.71	17.77											
Channel										2105	2105	2105	Time-up (min)	MPE (dB)			
Channel										701.5	707.5	713.5					
3	QPSK	1	0	22.73	22.67	22.67	24	0									
3	QPSK	1	14	22.40	22.52	22.48											
3	QPSK	8	0	21.50	21.59	21.44											
3	QPSK	8	7	21.45	21.58	21.44											
3	16QAM	1	0	21.30	21.63	21.51											
3	16QAM	1	8	21.43	21.39	21.41	23	1									
3	16QAM	8	0	20.48	20.48	20.39											
3	16QAM	8	4	20.34	20.40	20.38											
3	16QAM	8	7	20.38	20.51	20.45											
3	16QAM	16	0	20.45	20.44	20.41											
3	16QAM	1	0	20.50	20.55	20.43											
3	16QAM	1	8	20.43	20.48	20.32											
3	16QAM	8	0	19.40	19.47	19.32											
3	16QAM	8	4	19.28	19.45	19.30											
3	16QAM	8	7	19.20	19.50	19.50											
3	16QAM	15	0	19.29	19.38	19.41											
3	256QAM	1	8	17.70	17.75	17.72	19	5									
3	256QAM	1	14	17.78	17.81	17.70											
3	256QAM	8	0	17.82	17.85	17.82											
3	256QAM	8	4	17.71	17.72	17.76											
3	256QAM	8	7	17.79	17.82	17.83											
3	256QAM	15	0	17.69	17.71	17.77											
Channel										2107	2105	2113	Time-up (min)	MPE (dB)			
Channel										699.7	707.5	715.3					
1.4	QPSK	1	0	22.55	22.67	22.67	24	0									
1.4	QPSK	1	5	22.80	22.62	22.50											
1.4	QPSK	3	0	22.38	22.57	22.43											
1.4	QPSK	3	1	22.48	22.54	22.44											
1.4	QPSK	3	3	22.40	22.51	22.45											
1.4	16QAM	1	0	21.48	21.63	21.57	23	1									
1.4	16QAM	1	3	21.37	21.43	21.38											
1.4	16QAM	3	0	21.38	21.47	21.37											
1.4	16QAM	3	1	21.43	21.49	21.34											
1.4	16QAM	3	1	21.37	21.40	21.33											
1.4	16QAM	6	0	20.40	20.43	20.40	22	2									
1.4	16QAM	1	0	20.48	20.65	20.51											
1.4	16QAM	1	3	20.49	20.51	20.39											
1.4	16QAM	3	0	20.39	20.54	20.43											
1.4	16QAM	3	0	20.45	20.46	20.36											
1.4	16QAM	3	3	20.46	20.55	20.40											
1.4	16QAM	8	0	19.27	19.47	19.33											
1.4	16QAM	8	0	17.85	17.86	17.87											
1.4	256QAM	1	3	17.68	17.73	17.70	19	5									
1.4	256QAM	1	5	17.78	17.72	17.81											
1.4	256QAM	3	1	17.74	17.77	17.74											
1.4	256QAM	3	1	17.74	17.68	17.73											
1.4	256QAM	3	1	17.79	17.72	17.71											
1.4	256QAM	6	0	17.78	17.69	17.74											

Band 13 Ant0 EC16																	
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (min)	MPE (dB)									
Channel										762							
10	QPSK	1	0	22.89	22.85	22.85	24	0									
10	QPSK	1	25	22.71	22.71	22.71											
10	QPSK	25	0	21.70	21.62	21.62											
10	QPSK	25	12	21.62	21.62	21.62											
10	QPSK	25	25	21.62	21.62	21.62											
10	QPSK	50	0	21.63	21.63	21.63											
10	16QAM	1	25	21.59	21.59	21.59	23	1									
10	16QAM	1	49	21.54	21.54	21.54											
10	16QAM	25	0	20.56	20.56	20.56											
10	16QAM	25	12	20.49	20.49	20.49											
10	16QAM	25	25	20.42	20.42	20.42											
10	16QAM	50	0	20.59	20.59	20.59											
10	16QAM	50	12	20.44	20.44	20.44											
10	16QAM	50	25	20.42	20.42	20.42											
10	16QAM	25	0	19.52	19.52	19.52											
10	16QAM	25	12	19.33	19.33	19.33											
10	16QAM	25	25	19.50	19.50	19.50											
10	16QAM	50	0	19.30	19.30	19.30											
10	16QAM	50	12	19.27	19.27	19.27											
10	16QAM	50	25	19.27	19.27	19.27											
10	256QAM	1	49	17.82	17.82	17.82	19	5									
10	256QAM	1	25	17.82	17.82	17.82											
10	256QAM	25	12	17.84	17.84	17.84											
10	256QAM	25	25	17.77	17.77	17.77											
Channel										2105	2105	2105	Time-up (min)	MPE (dB)			
Channel										717.5	762	784.5					
5	QPSK	1	0	22.72	22.74	22.70	24	0									
5	QPSK	1	12	22.65	22.66	22.61											
5	QPSK	1	24	22.48	22.62	22.50											
5	QPSK	12	0	21.49	21.59	21.50											
5	QPSK	12	7	21.38	21.58	21.52											
5	QPSK	12	13	21.48	21.58	21.48											
5	16QAM	1	0	21.47	21.54	21.47											
5	16QAM	1	12	21.42	21.50	21.32	23	1									
5	16QAM	1	24	21.42	21.47	21.34											
5	16QAM	12	0	20.44	20.44	20.41											
5	16QAM	12	7	20.37	20.44	20.28											
5	16QAM	12	13	20.34	20.44	20.41											
5	16QAM	25	0	20.40	20.51	20.36											
5	16QAM	25	0	20.44	20.62	20.42											
5	16QAM	25	12	20.44	20.50	20.47											
5	16QAM	25	25	20.33	20.44	20.40											
5	16QAM	50	0	19.33	19.46	19.31											
5	16QAM	50	12	19.34	19.48	19.34											
5	16QAM	50	25	19.24	19.27	19.25											
5	16QAM	25	0	19.28	19.38	19.35											
5	16QAM	25	12	19.24	19.27	19.28											
5	16QAM	25	25	19.27	19.27	19.27											



Band 2 Ant1 EC16													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.			
Channel										Time-up limit (min)	MPE (dB)		
Frequency (MHz)													
20	QPSK	1	0	17.63	17.69	17.71							
20	QPSK	1	49	17.72	17.78	17.80							
20	QPSK	1	99	17.84	17.93	17.98							
20	QPSK	50	0	16.79	16.93	16.71							
20	QPSK	50	24	16.81	16.93	16.98							
20	QPSK	50	50	16.70	16.78	16.65							
20	QPSK	100	0	16.85	16.93	16.79							
20	QPSK	100	0	16.79	16.83	16.77							
20	HQAM	1	49	16.86	16.70	16.82							
20	HQAM	1	99	16.85	16.78	16.71							
20	HQAM	1	49	15.73	15.86	15.77							
20	HQAM	50	24	15.73	15.81	15.82							
20	HQAM	50	50	15.73	15.82	15.86							
20	HQAM	100	0	15.82	15.83	15.87							
20	HQAM	1	49	15.86	15.72	15.87							
20	HQAM	1	99	15.73	15.75	15.89							
20	HQAM	50	24	14.89	14.86	14.73							
20	HQAM	50	24	14.80	14.81	14.80							
20	HQAM	100	0	14.87	14.88	14.81							
20	HQAM	1	49	12.82	12.81	12.54							
20	HQAM	1	99	12.83	12.86	12.87							
20	HQAM	50	24	12.83	12.83	12.83							
20	HQAM	50	24	12.57	12.83	12.83							
20	HQAM	100	0	12.85	12.82	12.88							
20	HQAM	100	0	12.82	12.82	12.82							
Channel											Time-up limit (min)	MPE (dB)	
Frequency (MHz)											1807	1800	1915
15	QPSK	1	0	17.32	17.38	17.43							
15	QPSK	1	49	17.37	17.44	17.52							
15	QPSK	1	99	17.34	17.42	17.38							
15	QPSK	50	0	16.71	16.70	16.81							
15	QPSK	50	24	16.68	16.69	16.54							
15	QPSK	50	50	16.61	16.70	16.54							
15	QPSK	100	0	16.61	16.61	16.62							
15	QPSK	100	0	16.63	16.72	16.68							
15	HQAM	1	37	16.59	16.55	16.48							
15	HQAM	1	74	16.59	16.55	16.48							
15	HQAM	36	0	15.83	15.75	15.66							
15	HQAM	36	20	15.69	15.69	15.54							
15	HQAM	36	20	14.55	14.76	14.62							
15	HQAM	75	0	15.89	15.79	15.71							
15	HQAM	1	0	15.72	15.70	15.52							
15	HQAM	1	37	15.69	15.69	15.52							
15	HQAM	1	74	15.69	15.67	15.55							
15	HQAM	36	0	14.71	14.70	14.57							
15	HQAM	36	20	14.65	14.76	14.62							
15	HQAM	36	20	14.71	14.80	14.57							
15	HQAM	75	0	14.72	14.75	14.78							
15	HQAM	1	0	12.82	12.82	12.82							
15	HQAM	1	37	12.52	12.52	12.47							
15	HQAM	1	74	12.51	12.59	12.54							
15	HQAM	36	0	12.45	12.45	12.55							
15	HQAM	36	20	12.45	12.47	12.53							
15	HQAM	75	0	12.47	12.47	12.48							
Channel											Time-up limit (min)	MPE (dB)	
Frequency (MHz)											1855	1880	1910
10	QPSK	1	0	17.30	17.34	17.38							
10	QPSK	1	49	17.34	17.41	17.31							
10	QPSK	1	99	17.34	17.39	17.35							
10	QPSK	25	0	16.62	16.62	16.62							
10	QPSK	25	12	16.54	16.68	16.57							
10	QPSK	25	25	16.68	16.64	16.54							
10	QPSK	100	0	16.63	16.63	16.63							
10	HQAM	1	0	16.57	16.73	16.65							
10	HQAM	1	25	16.53	16.55	16.51							
10	HQAM	1	49	16.59	16.59	16.59							
10	HQAM	25	0	15.85	15.72	15.65							
10	HQAM	25	12	15.64	15.69	15.51							
10	HQAM	25	12	15.62	15.63	15.62							
10	HQAM	50	0	15.87	15.85	15.87							
10	HQAM	1	0	15.72	15.72	15.56							
10	HQAM	1	49	15.69	15.69	15.52							
10	HQAM	1	49	15.82	15.85	15.58							
10	HQAM	25	0	14.70	14.69	14.55							
10	HQAM	25	12	14.58	14.71	14.58							
10	HQAM	25	25	14.68	14.81	14.70							
10	HQAM	50	0	14.78	14.75	14.78							
10	HQAM	1	0	12.54	12.71	12.62							
10	HQAM	1	25	12.54	12.48	12.48							
10	HQAM	1	49	12.53	12.51	12.53							
10	HQAM	25	0	12.43	12.53	12.49							
10	HQAM	25	12	12.54	12.55	12.55							
10	HQAM	50	0	12.53	12.51	12.50							
Channel											Time-up limit (min)	MPE (dB)	
Frequency (MHz)											1825	1890	1915
5	QPSK	1	0	17.30	17.35	17.38							
5	QPSK	1	24	17.30	17.42	17.33							
5	QPSK	12	0	16.65	16.78	16.69							
5	QPSK	12	7	16.58	16.65	16.60							
5	QPSK	12	13	16.69	16.63	16.56							
5	QPSK	25	0	16.74	16.86	16.78							
5	HQAM	1	0	16.51	16.73	16.63							
5	HQAM	1	12	16.56	16.59	16.54							
5	HQAM	1	24	16.55	16.60	16.56							
5	HQAM	12	0	15.81	15.74	15.70							
5	HQAM	12	7	15.64	15.66	15.51							
5	HQAM	12	13	15.65	15.69	15.66							
5	HQAM	25	0	15.83	15.81	15.71							
5	HQAM	1	0	15.72	15.72	15.60							
5	HQAM	1	12	15.62	15.62	15.50							
5	HQAM	1	24	15.82	15.86	15.58							
5	HQAM	12	0	14.72	14.66	14.60							
5	HQAM	12	7	14.55	14.75	14.59							
5	HQAM	12	13	14.71	14.83	14.69							
5	HQAM	25	0	14.73	14.73	14.62							
5	HQAM	1	0	12.81	12.89	12.89							
5	HQAM	1	12	12.48	12.50	12.45							
5	HQAM	1	24	12.49	12.59	12.53							
5	HQAM	12	0	12.80	12.98	12.81							
5	HQAM	12	7	12.64	12.58	12.48							
5	HQAM	12	13	12.67	12.48	12.42							
5	HQAM	25	0	12.51	12.51	12.47							
Channel											Time-up limit (min)	MPE (dB)	
Frequency (MHz)											18615	18600	19195
3	QPSK	1	0	17.32	17.33	17.44							
3	QPSK	1	8	17.40	17.42	17.32							
3	QPSK	1	14	17.31	17.45	17.34							
3	QPSK	8	0	16.69	16.72	16.59							
3	QPSK	8	4	16.67	16.70	16.58							
3	QPSK	8	7	16.67	16.68	16.54							
3	QPSK	15	0	16.77	16.80	16.70							
3	HQAM	1	0	16.59	16.72	16.62							
3	HQAM	1	8	16.53	16.57	16.54							
3	HQAM	1	14	16.51	16.64	16.59							
3	HQAM	8	0	15.82	15.77	15.66							
3	HQAM	8	4	15.64	15.72	15.47							
3	HQAM	8	7	15.62	15.68	15.70							
3	HQAM	15	0	15.89	15.82	15.68							
3	HQAM	1	0	15.74	15.74	15.56							
3	HQAM	1	8	15.69	15.62	15.59							
3	HQAM	1	14	15.69	15.63	15.56							
3	HQAM	8	0	14.87	14.81	14.82							
3	HQAM	8	4	14.59	14.76	14.61							
3	HQAM	8	7	14.71	14.81	14.72							
3	HQAM	15	0	14.69	14.75	14.62							
3	HQAM	1	0	12.83	12.89	12.88							
3	HQAM	1	8	12.53	12.53	12.45							
3	HQAM	1	14	12.53	12.57	12.59							
3	HQAM	8	0	12.45	12.50	12.53							
3	HQ												





Band 12 Ant1 ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.91	22.94	22.96				
10	QPSK	1	25	22.91	22.94	22.96			24	0
10	QPSK	1	49	22.78	22.81	22.75				
10	QPSK	25	0	21.71	21.81	21.70				
10	QPSK	25	12	21.73	21.74	21.69				
10	QPSK	25	25	21.84	21.74	21.82			23	1
10	QPSK	50	0	21.73	21.83	21.80				
10	16QAM	50	0	21.82	21.84	21.86				
10	16QAM	1	25	21.75	21.84	21.75			23	1
10	16QAM	1	49	21.69	21.82	21.74				
10	16QAM	25	0	20.70	20.84	20.78				
10	16QAM	25	12	20.87	20.81	20.78			22	2
10	16QAM	25	25	20.99	20.72	20.80				
10	16QAM	50	0	20.77	20.85	20.79				
10	64QAM	1	0	20.86	20.98	20.89				
10	64QAM	1	25	20.74	20.86	20.71			22	2
10	64QAM	1	49	20.84	20.98	20.72				
10	64QAM	25	0	19.77	19.87	19.75				
10	64QAM	25	12	19.83	19.81	19.73			21	3
10	64QAM	25	25	20.94	20.78	20.79				
10	64QAM	50	0	19.81	19.88	19.84				
10	256QAM	1	25	17.84	17.81	17.90			19	5
10	256QAM	1	49	17.95	17.89	17.87				
10	256QAM	25	0	17.87	17.98	17.88				
10	256QAM	25	12	17.87	17.90	17.88			19	5
10	256QAM	25	25	17.91	17.84	17.90				
10	256QAM	50	0	17.85	17.85	17.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.86	22.82	22.78				
5	QPSK	1	12	22.72	22.77	22.80			24	0
5	QPSK	1	24	22.65	22.74	22.86				
5	QPSK	12	0	21.58	21.66	21.63				
5	QPSK	12	7	21.66	21.74	21.64				
5	QPSK	12	13	21.56	21.69	21.59			23	1
5	QPSK	25	0	21.62	21.72	21.69				
5	16QAM	1	0	21.77	21.81	21.77				
5	16QAM	1	12	21.67	21.70	21.64			23	1
5	16QAM	1	24	21.59	21.70	21.63				
5	16QAM	12	0	20.66	20.74	20.72				
5	16QAM	12	7	20.56	20.73	20.72			22	2
5	16QAM	12	13	20.62	20.71	20.71				
5	16QAM	25	0	20.69	20.79	20.67				
5	64QAM	1	0	20.80	20.88	20.80			22	2
5	64QAM	1	12	20.84	20.94	20.82				
5	64QAM	1	24	20.50	20.67	20.57				
5	64QAM	12	0	19.83	19.83	19.84			21	3
5	64QAM	12	7	19.84	19.79	19.80				
5	64QAM	12	13	19.54	19.51	19.55				
5	64QAM	25	0	19.77	19.76	19.79				
5	256QAM	1	0	17.90	17.89	17.88			19	5
5	256QAM	1	12	17.90	17.80	17.85				
5	256QAM	1	24	17.92	17.89	17.94				
5	256QAM	12	0	17.86	17.92	17.88				
5	256QAM	12	7	17.91	17.84	17.86			19	5
5	256QAM	12	13	17.85	17.81	17.88				
5	256QAM	25	0	17.85	17.85	17.85				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.65	22.68	22.72				
3	QPSK	1	8	22.67	22.71	22.70			24	0
3	QPSK	1	14	22.66	22.68	22.71				
3	QPSK	8	0	21.65	21.68	21.54				
3	QPSK	8	7	21.60	21.66	21.57			23	1
3	16QAM	1	0	21.71	21.90	21.70				
3	16QAM	1	8	21.62	21.78	21.60			23	1
3	16QAM	1	14	21.66	21.74	21.63				
3	16QAM	8	0	20.66	20.79	20.82				
3	16QAM	8	4	20.52	20.75	20.66			22	2
3	16QAM	8	7	20.62	20.64	20.67				
3	64QAM	1	0	20.74	20.82	20.80			22	2
3	64QAM	1	8	20.80	20.80	20.80				
3	64QAM	1	14	20.58	20.74	20.61				
3	64QAM	8	0	19.82	19.77	19.87			21	3
3	64QAM	8	4	19.80	19.68	19.81				
3	64QAM	8	7	19.52	19.63	19.65				
3	256QAM	1	0	17.86	17.97	17.92				
3	256QAM	1	8	17.91	17.80	17.85			19	5
3	256QAM	1	14	17.90	17.85	17.94				
3	256QAM	8	0	17.80	17.89	17.85				
3	256QAM	8	4	17.85	17.90	17.85			19	5
3	256QAM	8	7	17.88	17.93	17.86				
3	256QAM	15	0	17.84	17.81	17.87				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.82	22.80	22.72				
1.4	QPSK	1	3	22.66	22.77	22.77				
1.4	QPSK	1	5	22.68	22.71	22.65			24	0
1.4	QPSK	3	0	22.67	22.70	22.61				
1.4	QPSK	3	1	22.67	22.67	22.54				
1.4	QPSK	3	3	22.54	22.68	22.54			23	1
1.4	16QAM	1	0	21.68	21.88	21.82				
1.4	16QAM	1	3	21.67	21.75	21.67				
1.4	16QAM	1	5	21.69	21.72	21.71				
1.4	16QAM	3	0	21.64	21.70	21.72			23	1
1.4	16QAM	3	1	21.63	21.72	21.69				
1.4	16QAM	3	3	21.54	21.67	21.57				
1.4	64QAM	1	0	20.71	20.81	20.85			22	2
1.4	64QAM	1	3	20.80	20.84	20.78				
1.4	64QAM	1	5	20.83	20.71	20.88				
1.4	64QAM	3	0	20.63	20.81	20.70			22	2
1.4	64QAM	3	3	20.70	20.79	20.82				
1.4	64QAM	3	3	20.47	20.69	20.57				
1.4	64QAM	6	0	19.70	19.78	19.77			21	3
1.4	256QAM	1	0	17.93	17.99	17.88				
1.4	256QAM	1	3	17.90	17.90	17.88			19	5
1.4	256QAM	3	0	17.89	17.87	17.86				
1.4	256QAM	3	1	17.95	17.93	17.89				
1.4	256QAM	3	1	17.89	17.89	17.88				
1.4	256QAM	3	3	17.88	17.96	17.85			19	5
1.4	256QAM	6	0	17.86	17.91	17.84				

Band 13 Ant1 ECI6										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.92	22.92	22.92				
10	QPSK	1	25	22.81	22.81	22.81			24	0
10	QPSK	1	49	22.82	22.82	22.82				
10	QPSK	25	0	21.78	21.78	21.64				
10	QPSK	25	12	21.61	21.61	21.61				
10	QPSK	25	25	21.72	21.72	21.72			23	1
10	QPSK	50	0	21.70	21.70	21.64				
10	16QAM	50	0	21.82	21.82	21.82				
10	16QAM	1	25	21.74	21.74	21.74				
10	16QAM	1	49	21.74	21.74	21.74				
10	16QAM	25	0	20.87	20.86	20.86				
10	16QAM	25	12	20.57	20.57	20.57			22	2
10	16QAM	25	25	20.89	20.89	20.89				
10	16QAM	50	0	20.88	20.88	20.88				
10	64QAM	1	0	20.72	20.72	20.72			22	2
10	64QAM	1	25	20.81	20.89	20.81				
10	64QAM	1	49	20.70	20.70	20.70				
10	64QAM	25	0	19.84	19.84	19.84			21	3
10	64QAM	25	12	19.87	19.87	19.87				
10	64QAM	25	25	20.94	20.94	20.94				
10	64QAM	50	0	19.80	19					



### Band 48 Ant3 EC16

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.88	19.90	19.59	19.78	21	0
20	QPSK	1	49	19.83	19.80	19.74	19.71		
20	QPSK	1	99	19.68	19.74	19.65	19.61		
20	QPSK	50	0	18.84	18.85	18.67	18.73		
20	QPSK	50	24	18.73	18.73	18.69	18.65	20	1
20	QPSK	50	50	18.64	18.72	18.68	18.57		
20	QPSK	100	0	18.67	18.71	18.61	18.65	20	1
20	16QAM	1	0	18.83	18.96	18.96	18.91		
20	16QAM	1	49	18.84	18.83	18.76	18.70		
20	16QAM	1	99	18.62	18.77	18.63	18.66		
20	16QAM	50	0	17.81	17.85	17.82	17.79	19	2
20	16QAM	50	24	17.66	17.77	17.63	17.63		
20	16QAM	50	50	17.75	17.80	17.70	17.66		
20	16QAM	100	0	17.60	17.67	17.65	17.67		
20	64QAM	1	0	17.86	17.87	17.81	17.80	19	2
20	64QAM	1	49	17.77	17.79	17.76	17.74		
20	64QAM	1	99	17.61	17.71	17.67	17.66		
20	64QAM	50	0	16.71	16.81	16.72	16.76		
20	64QAM	50	24	16.70	16.80	16.73	16.73	18	3
20	64QAM	50	50	16.63	16.81	16.67	16.72		
20	64QAM	100	0	16.59	16.69	16.67	16.56		
20	256QAM	1	0	14.93	14.80	14.88	14.90		
20	256QAM	1	49	14.81	14.75	14.82	14.83	16	5
20	256QAM	1	99	14.87	14.87	14.86	14.85		
20	256QAM	50	0	14.99	14.96	14.99	14.99		
20	256QAM	50	24	14.84	14.91	14.81	14.83		
20	256QAM	50	50	14.85	14.83	14.92	14.93	16	5
20	256QAM	100	0	14.81	14.83	14.83	14.80		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	19.76	19.82	19.47	19.69	21	0
15	QPSK	1	37	19.75	19.70	19.60	19.58		
15	QPSK	1	74	19.58	19.62	19.53	19.51		
15	QPSK	36	0	18.72	18.71	18.53	18.65		
15	QPSK	36	20	18.63	18.66	18.57	18.57	20	1
15	QPSK	36	39	18.51	18.65	18.56	18.48		
15	QPSK	75	0	18.56	18.61	18.50	18.51		
15	16QAM	1	0	18.70	18.84	18.76	18.77		
15	16QAM	1	37	18.75	18.73	18.66	18.61	20	1
15	16QAM	1	74	18.49	18.65	18.55	18.56		
15	16QAM	36	0	17.70	17.77	17.70	17.72		
15	16QAM	36	20	17.58	17.66	17.55	17.53		
15	16QAM	36	39	17.68	17.72	17.56	17.55	19	2
15	16QAM	75	0	17.53	17.55	17.53	17.55		
15	64QAM	1	0	17.78	17.75	17.70	17.67		
15	64QAM	1	37	17.68	17.70	17.68	17.63		
15	64QAM	1	74	17.47	17.64	17.55	17.58	18	3
15	64QAM	36	0	16.58	16.72	16.62	16.65		
15	64QAM	36	20	16.61	16.66	16.66	16.62		
15	64QAM	36	39	16.52	16.74	16.55	16.60		
15	64QAM	75	0	16.50	16.62	16.58	16.48	16	5
15	256QAM	1	0	14.83	14.72	14.77	14.77		
15	256QAM	1	37	14.68	14.64	14.69	14.74		
15	256QAM	1	74	14.77	14.74	14.76	14.72		
15	256QAM	36	0	14.77	14.82	14.79	14.75	16	5
15	256QAM	36	20	14.73	14.77	14.69	14.73		
15	256QAM	36	39	14.78	14.71	14.77	14.86		
15	256QAM	75	0	14.69	14.71	14.75	14.66		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	19.76	19.82	19.48	19.69	21	0
10	QPSK	1	25	19.69	19.68	19.65	19.61		
10	QPSK	1	49	19.59	19.62	19.50	19.50		
10	QPSK	25	0	18.77	18.77	18.56	18.65		
10	QPSK	25	12	18.62	18.63	18.55	18.51	20	1
10	QPSK	25	25	18.50	18.57	18.59	18.44		
10	QPSK	50	0	18.53	18.64	18.54	18.56		
10	16QAM	1	0	18.71	18.88	18.77	18.78		
10	16QAM	1	25	18.73	18.74	18.61	18.61	20	1
10	16QAM	1	49	18.53	18.63	18.50	18.54		
10	16QAM	25	0	17.73	17.72	17.69	17.72		
10	16QAM	25	12	17.56	17.66	17.51	17.55		
10	16QAM	25	25	17.65	17.66	17.57	17.59	19	2
10	16QAM	50	0	17.46	17.56	17.57	17.55		
10	64QAM	1	0	17.74	17.74	17.72	17.66		
10	64QAM	1	25	17.64	17.66	17.63	17.61		
10	64QAM	1	49	17.49	17.64	17.57	17.59	18	3
10	64QAM	25	0	16.59	16.71	16.58	16.66		
10	64QAM	25	12	16.62	16.70	16.59	16.63		
10	64QAM	25	25	16.56	16.70	16.58	16.57		
10	64QAM	50	0	16.48	16.60	16.56	16.41	16	5
10	256QAM	1	0	14.85	14.67	14.75	14.80		
10	256QAM	1	25	14.73	14.64	14.75	14.69		
10	256QAM	1	49	14.78	14.74	14.78	14.74		
10	256QAM	25	0	14.75	14.88	14.81	14.77	16	5
10	256QAM	25	12	14.69	14.82	14.66	14.71		
10	256QAM	25	25	14.75	14.74	14.78	14.82		
10	256QAM	50	0	14.74	14.74	14.76	14.72		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	19.74	19.82	19.49	19.66	21	0
5	QPSK	1	12	19.75	19.73	19.64	19.56		
5	QPSK	1	24	19.61	19.60	19.55	19.47		
5	QPSK	12	0	18.71	18.75	18.55	18.64		
5	QPSK	12	7	18.66	18.58	18.54	18.57	20	1
5	QPSK	12	13	18.56	18.65	18.59	18.44		
5	QPSK	25	0	18.59	18.57	18.48	18.56		
5	16QAM	1	0	18.74	18.87	18.78	18.81		
5	16QAM	1	12	18.76	18.71	18.62	18.62	20	1
5	16QAM	1	24	18.53	18.68	18.53	18.54		
5	16QAM	12	0	17.70	17.71	17.73	17.68		
5	16QAM	12	7	17.57	17.63	17.49	17.50		
5	16QAM	12	13	17.65	17.72	17.59	17.54	19	2
5	16QAM	25	0	17.51	17.56	17.52	17.80		
5	64QAM	1	0	17.78	17.74	17.67	17.67		
5	64QAM	1	12	17.63	17.70	17.65	17.63		
5	64QAM	1	24	17.49	17.61	17.60	17.56	18	3
5	64QAM	12	0	16.81	16.72	16.63	16.66		
5	64QAM	12	7	16.59	16.70	16.60	16.60		
5	64QAM	12	13	16.51	16.68	16.53	16.57		
5	64QAM	25	0	16.47	16.59	16.58	16.46	16	5
5	256QAM	1	0	14.84	14.68	14.76	14.75		
5	256QAM	1	12	14.69	14.61	14.73	14.74		
5	256QAM	1	24	14.75	14.78	14.77	14.77		
5	256QAM	12	0	14.75	14.84	14.76	14.79	16	5
5	256QAM	12	7	14.73	14.83	14.69	14.73		
5	256QAM	12	13	14.74	14.75	14.77	14.81		
5	256QAM	25	0	14.70	14.69	14.70	14.65		



### Band 48 Ant4 EC16

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	19.89	19.99	19.86	19.96	21	0
20	QPSK	1	49	19.78	19.91	19.94	19.85		
20	QPSK	1	99	19.84	19.83	19.85	19.72		
20	QPSK	50	0	18.83	19.04	18.93	18.89		
20	QPSK	50	24	18.96	19.01	18.84	18.90	20	1
20	QPSK	50	50	18.92	18.95	18.96	18.91		
20	QPSK	100	0	18.90	19.01	18.96	18.97	20	1
20	16QAM	1	0	19.09	19.13	19.94	19.05		
20	16QAM	1	49	18.91	19.03	19.05	18.90		
20	16QAM	1	99	18.92	19.01	18.92	18.90		
20	16QAM	50	0	17.94	18.06	18.00	18.05	19	2
20	16QAM	50	24	18.02	18.04	18.07	18.04		
20	16QAM	50	50	17.90	18.01	17.99	17.98		
20	16QAM	100	0	17.89	18.06	18.02	18.04		
20	64QAM	1	0	17.98	18.08	17.92	17.98	19	2
20	64QAM	1	49	18.01	18.04	17.96	17.93		
20	64QAM	1	99	17.87	17.92	17.91	17.84		
20	64QAM	50	0	16.96	17.05	16.93	17.01		
20	64QAM	50	24	16.95	17.08	17.01	17.05	18	3
20	64QAM	50	50	16.90	16.95	16.84	16.95		
20	64QAM	100	0	17.00	17.13	16.96	17.00		
20	256QAM	1	0	14.84	14.87	14.87	14.86		
20	256QAM	1	49	14.75	14.76	14.72	14.80	16	5
20	256QAM	1	99	14.78	14.83	14.79	14.77		
20	256QAM	50	0	14.84	14.91	14.81	14.87	16	5
20	256QAM	50	24	14.77	14.78	14.81	14.81		
20	256QAM	50	50	14.80	14.77	14.75	14.77		
20	256QAM	100	0	14.70	14.73	14.82	14.79		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	19.81	19.85	19.73	19.87	21	0
15	QPSK	1	37	19.66	19.83	19.83	19.71		
15	QPSK	1	74	19.75	19.72	19.71	19.81		
15	QPSK	36	0	18.86	18.93	18.84	18.78		
15	QPSK	36	20	18.83	18.88	18.73	18.78	20	1
15	QPSK	36	39	18.83	18.81	18.83	18.79		
15	QPSK	75	0	18.77	18.89	18.87	18.86		
15	16QAM	1	0	18.96	19.00	18.91	18.90		
15	16QAM	1	37	18.80	18.92	18.94	18.79	20	1
15	16QAM	1	74	18.84	18.90	18.84	18.80		
15	16QAM	36	0	17.84	17.92	17.93	17.91		
15	16QAM	36	20	17.91	17.96	17.95	17.94		
15	16QAM	36	39	17.81	17.93	17.86	17.83	19	2
15	16QAM	75	0	17.76	17.93	17.90	17.97		
15	64QAM	1	0	17.84	17.99	17.85	17.89		
15	64QAM	1	37	17.89	17.97	17.84	17.79		
15	64QAM	1	74	17.72	17.84	17.78	17.73	19	2
15	64QAM	36	0	16.87	16.97	16.80	16.86		
15	64QAM	36	20	16.80	16.96	16.87	16.93		
15	64QAM	36	39	16.82	16.81	16.74	16.80		
15	64QAM	75	0	16.89	17.01	16.88	16.89	18	3
15	256QAM	1	0	14.77	14.77	14.80	14.72		
15	256QAM	1	37	14.66	14.63	14.58	14.73		
15	256QAM	1	74	14.68	14.74	14.66	14.67		
15	256QAM	36	0	14.72	14.70	14.67	14.74	16	5
15	256QAM	36	20	14.66	14.68	14.73	14.68		
15	256QAM	36	39	14.69	14.63	14.62	14.63		
15	256QAM	75	0	14.58	14.66	14.71	14.65		
Channel				55300	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	19.80	19.89	19.77	19.86	21	0
10	QPSK	1	25	19.66	19.76	19.66	19.76		
10	QPSK	1	49	19.73	19.74	19.77	19.79		
10	QPSK	25	0	18.85	18.93	18.80	18.78		
10	QPSK	25	12	18.88	18.94	18.75	18.78	20	1
10	QPSK	25	25	18.79	18.80	18.83	18.83		
10	QPSK	50	0	18.78	18.92	18.87	18.88		
10	16QAM	1	0	18.98	18.98	18.93	18.92		
10	16QAM	1	25	18.79	18.89	18.91	18.80	20	1
10	16QAM	1	49	18.78	18.93	18.78	18.79		
10	16QAM	25	0	17.83	17.95	17.87	17.93		
10	16QAM	25	12	17.92	17.96	17.97	17.96		
10	16QAM	25	25	17.80	17.91	17.85	17.88	19	2
10	16QAM	50	0	17.81	17.96	17.91	17.91		
10	64QAM	1	0	17.84	17.97	17.80	17.84		
10	64QAM	1	25	17.88	17.89	17.83	17.79		
10	64QAM	1	49	17.77	17.79	17.82	17.76	18	3
10	64QAM	25	0	16.84	16.97	16.78	16.89		
10	64QAM	25	12	16.83	16.97	16.93	16.95		
10	64QAM	25	25	16.76	16.88	16.70	16.86		
10	64QAM	50	0	16.87	17.01	16.87	16.91	16	5
10	256QAM	1	0	14.74	14.74	14.77	14.76		
10	256QAM	1	25	14.67	14.68	14.64	14.69		
10	256QAM	1	49	14.66	14.75	14.66	14.64		
10	256QAM	25	0	14.77	14.71	14.72	14.75	16	5
10	256QAM	25	12	14.68	14.70	14.71	14.66		
10	256QAM	25	25	14.67	14.66	14.62	14.66		
10	256QAM	50	0	14.58	14.65	14.67	14.66		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	19.77	19.90	19.72	19.88	21	0
5	QPSK	1	12	19.68	19.81	19.79	19.72		
5	QPSK	1	24	19.74	19.73	19.75	19.70		
5	QPSK	12	0	18.85	18.92	18.80	18.80		
5	QPSK	12	7	18.83	18.89	18.74	18.76	20	1
5	QPSK	12	13	18.83	18.88	18.88	18.81		
5	QPSK	25	0	18.76	18.87	18.88	18.88		
5	16QAM	1	0	18.94	19.05	18.92	18.96		
5	16QAM	1	12	18.77	18.90	18.92	18.76	20	1
5	16QAM	1	24	18.81	18.90	18.83	18.75		
5	16QAM	12	0	17.80	17.94	17.86	17.96		
5	16QAM	12	7	17.95	17.94	17.97	17.97		
5	16QAM	12	13	17.77	17.91	17.91	17.84	19	2
5	16QAM	25	0	17.76	17.93	17.94	17.97		
5	64QAM	1	0	17.85	17.97	17.82	17.85		
5	64QAM	1	12	17.98	17.94	17.99	17.81		
5	64QAM	1	24	17.79	17.78	17.81	17.72	19	2
5	64QAM	12	0	16.81	16.96	16.86	16.92		
5	64QAM	12	7	16.82	16.96	16.91	16.92		
5	64QAM	12	13	16.82	16.87	16.74	16.80		
5	64QAM	25	0	16.88	17.04	16.85	16.89	18	3
5	256QAM	1	0	14.72	14.78	14.76	14.72		
5	256QAM	1	12	14.65	14.64	14.62	14.70		
5	256QAM	1	24	14.63	14.70	14.67	14.65		
5	256QAM	12	0	14.69	14.67	14.73	14.75	16	5
5	256QAM	12	7	14.62	14.68	14.66	14.68		
5	256QAM	12	13	14.72	14.70	14.64	14.63		
5	256QAM	25	0	14.62	14.66	14.72	14.68		



### Band 48 Ant5 EC16

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	21.84	21.92	21.82	21.76	23.3	0
20	QPSK	1	49	21.78	21.90	21.85	21.71		
20	QPSK	1	99	21.77	21.83	21.69	21.75		
20	QPSK	50	0	20.88	20.97	20.85	20.83		
20	QPSK	50	24	20.76	20.88	20.78	20.72	22.3	1
20	QPSK	50	50	20.77	20.86	20.73	20.67		
20	QPSK	100	0	20.87	20.94	20.88	20.82		
20	QPSK	1	0	20.95	21.06	21.03	20.95		
20	16QAM	1	49	20.82	20.92	20.86	20.77	22.3	1
20	16QAM	1	99	20.86	20.94	20.81	20.77		
20	16QAM	50	0	19.93	20.05	19.92	19.92		
20	16QAM	50	24	19.94	20.03	19.91	19.86		
20	16QAM	50	50	19.94	19.97	19.91	19.80	21.3	2
20	16QAM	100	0	20.03	20.07	19.99	19.89		
20	64QAM	1	0	19.82	19.94	19.80	19.78		
20	64QAM	1	49	19.86	19.92	19.83	19.77		
20	64QAM	1	99	19.76	19.81	19.73	19.67	21.3	2
20	64QAM	50	0	19.00	19.04	18.92	18.85		
20	64QAM	50	24	18.82	18.88	18.78	18.74		
20	64QAM	50	50	18.82	19.00	18.96	18.91		
20	64QAM	100	0	19.06	19.11	18.98	19.01	20.3	3
20	256QAM	1	0	16.95	16.84	16.92	16.90		
20	256QAM	1	49	16.80	16.87	16.82	16.85		
20	256QAM	1	99	16.83	16.72	16.78	16.87		
20	256QAM	50	0	16.94	16.83	16.82	16.85	18.3	5
20	256QAM	50	24	16.78	16.88	16.82	16.85		
20	256QAM	50	50	16.90	16.71	16.78	16.92		
20	256QAM	100	0	16.85	16.75	16.76	16.83		
Channel				55315	55820	56180	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	21.71	21.81	21.79	21.69	23.3	0
15	QPSK	1	37	21.66	21.78	21.81	21.64		
15	QPSK	1	74	21.68	21.75	21.58	21.64		
15	QPSK	36	0	20.74	20.91	20.77	20.75		
15	QPSK	36	20	20.69	20.78	20.68	20.61	22.3	1
15	QPSK	36	39	20.67	20.77	20.66	20.54		
15	QPSK	75	0	20.83	20.84	20.80	20.74		
15	16QAM	1	0	20.86	20.92	20.95	20.89		
15	16QAM	1	37	20.74	20.80	20.74	20.66	22.3	1
15	16QAM	1	74	20.83	20.83	20.70	20.63		
15	16QAM	36	0	19.88	19.93	19.85	19.79		
15	16QAM	36	20	19.87	19.89	19.81	19.81		
15	16QAM	36	39	19.88	19.91	19.80	19.65	21.3	2
15	16QAM	75	0	19.99	20.00	19.90	19.76		
15	64QAM	1	0	19.77	19.86	19.73	19.68		
15	64QAM	1	37	19.76	19.85	19.75	19.71		
15	64QAM	1	74	19.64	19.69	19.65	19.54	20.3	3
15	64QAM	36	0	18.89	19.00	18.85	18.70		
15	64QAM	36	20	18.71	18.79	18.74	18.61		
15	64QAM	36	39	18.80	18.88	18.91	18.80		
15	64QAM	75	0	19.01	18.98	18.89	18.91	18.3	5
15	256QAM	1	0	16.86	16.85	16.84	16.89		
15	256QAM	1	37	16.78	16.71	16.71	16.85		
15	256QAM	1	74	16.80	16.73	16.79	16.84		
15	256QAM	36	0	16.94	16.74	16.87	16.87	18.3	5
15	256QAM	36	20	16.96	16.71	16.75	16.80		
15	256QAM	36	39	16.91	16.76	16.87	16.89		
15	256QAM	75	0	16.85	16.68	16.71	16.77		
Channel				55300	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	21.75	21.88	21.78	21.71	23.3	0
10	QPSK	1	25	21.71	21.79	21.73	21.62		
10	QPSK	1	49	21.73	21.79	21.56	21.63		
10	QPSK	25	0	20.76	20.83	20.73	20.73		
10	QPSK	25	12	20.73	20.75	20.70	20.60	22.3	1
10	QPSK	25	25	20.65	20.72	20.61	20.52		
10	QPSK	50	0	20.80	20.79	20.73	20.78		
10	16QAM	1	0	20.80	20.98	20.99	20.84		
10	16QAM	1	25	20.70	20.80	20.73	20.70	22.3	1
10	16QAM	1	49	20.80	20.80	20.66	20.68		
10	16QAM	25	0	19.81	19.91	19.79	19.78		
10	16QAM	25	12	19.91	19.92	19.82	19.82		
10	16QAM	25	25	19.87	19.91	19.81	19.68	21.3	2
10	16QAM	50	0	19.98	19.97	19.95	19.84		
10	64QAM	1	0	19.70	19.85	19.73	19.74		
10	64QAM	1	25	19.76	19.78	19.70	19.67		
10	64QAM	1	49	19.70	19.69	19.66	19.54	21.3	2
10	64QAM	25	0	18.94	18.92	18.81	18.76		
10	64QAM	25	12	18.69	18.75	18.71	18.66		
10	64QAM	25	25	18.84	18.94	18.91	18.83		
10	64QAM	50	0	18.93	18.96	18.89	18.94	20.3	3
10	256QAM	1	0	16.90	16.81	16.87	16.95		
10	256QAM	1	25	16.80	16.66	16.78	16.75		
10	256QAM	1	49	16.91	16.72	16.86	16.83		
10	256QAM	25	0	16.86	16.81	16.86	16.91	18.3	5
10	256QAM	25	12	16.87	16.77	16.83	16.83		
10	256QAM	25	25	16.83	16.82	16.77	16.93		
10	256QAM	50	0	16.82	16.65	16.73	16.78		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	21.79	21.83	21.79	21.66	23.3	0
5	QPSK	1	12	21.72	21.83	21.72	21.61		
5	QPSK	1	24	21.71	21.69	21.55	21.65		
5	QPSK	12	0	20.81	20.82	20.76	20.69		
5	QPSK	12	7	20.67	20.81	20.69	20.69	22.3	1
5	QPSK	12	13	20.70	20.72	20.66	20.56		
5	QPSK	25	0	20.79	20.90	20.80	20.70		
5	16QAM	1	0	20.89	21.01	20.99	20.91		
5	16QAM	1	12	20.71	20.79	20.81	20.67	22.3	1
5	16QAM	1	24	20.72	20.79	20.77	20.70		
5	16QAM	12	0	19.83	19.99	19.87	19.79		
5	16QAM	12	7	19.82	19.99	19.85	19.77		
5	16QAM	12	13	19.82	19.91	19.79	19.71	21.3	2
5	16QAM	25	0	19.89	19.95	19.87	19.75		
5	64QAM	1	0	19.73	19.82	19.77	19.64		
5	64QAM	1	12	19.77	19.88	19.79	19.71		
5	64QAM	1	24	19.64	19.72	19.68	19.61	21.3	2
5	64QAM	12	0	18.93	18.92	18.79	18.81		
5	64QAM	12	7	18.69	18.81	18.73	18.66		
5	64QAM	12	13	18.78	18.95	18.81	18.83		
5	64QAM	25	0	18.92	19.06	18.85	18.95	20.3	3
5	256QAM	1	0	16.90	16.82	16.88	16.93		
5	256QAM	1	12	16.86	16.68	16.73	16.82		
5	256QAM	1	24	16.89	16.82	16.83	16.85		
5	256QAM	12	0	16.90	16.75	16.88	16.89	18.3	5
5	256QAM	12	7	16.82	16.70	16.75	16.80		
5	256QAM	12	13	16.83	16.76	16.88	16.85		
5	256QAM	25	0	16.78	16.71	16.78	16.77		



### Band 48 Ant8 EC16

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.13	17.34	17.28	17.28	18.2	0
20	QPSK	1	49	17.09	17.26	17.25	17.26		
20	QPSK	1	99	17.14	17.21	17.18	17.08		
20	QPSK	50	0	16.35	16.43	16.26	16.37		
20	QPSK	50	24	16.19	16.36	16.28	16.27	17.2	1
20	QPSK	50	50	16.20	16.19	16.21	16.21		
20	QPSK	100	0	16.13	16.29	16.17	16.18		
20	QPSK	1	0	16.39	16.42	16.41	16.39		
20	16QAM	1	49	16.25	16.34	16.35	16.35	17.2	1
20	16QAM	1	99	16.16	16.30	16.26	16.20		
20	16QAM	50	0	15.21	15.27	15.12	15.18		
20	16QAM	50	24	15.11	15.18	15.06	15.14		
20	16QAM	50	50	15.20	15.26	15.09	15.22	16.2	2
20	16QAM	100	0	15.19	15.33	15.23	15.18		
20	64QAM	1	0	15.28	15.37	15.26	15.33		
20	64QAM	1	49	15.30	15.37	15.28	15.34		
20	64QAM	1	99	15.15	15.34	15.24	15.20	16.2	2
20	64QAM	50	0	14.33	14.37	14.21	14.31		
20	64QAM	50	24	14.21	14.30	14.15	14.30		
20	64QAM	50	50	14.27	14.37	14.33	14.27		
20	64QAM	100	0	14.04	14.13	14.07	14.00	15.2	3
20	256QAM	1	0	11.99	11.92	12.00	12.07		
20	256QAM	1	49	11.90	11.83	11.79	11.95		
20	256QAM	1	99	11.97	11.92	11.90	12.05		
20	256QAM	50	0	12.03	11.86	11.90	11.98	13.2	5
20	256QAM	50	24	11.97	11.78	11.86	11.98		
20	256QAM	50	50	12.01	11.83	11.95	12.01		
20	256QAM	100	0	11.84	11.76	11.81	11.87		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	17.01	17.26	17.13	17.13	18.2	0
15	QPSK	1	37	16.96	17.14	17.13	17.17		
15	QPSK	1	74	17.00	17.10	17.09	17.01		
15	QPSK	36	0	16.28	16.32	16.16	16.25		
15	QPSK	36	20	16.08	16.28	16.15	16.16	17.2	1
15	QPSK	36	39	16.06	16.10	16.13	16.14		
15	QPSK	75	0	16.03	16.19	16.06	16.11		
15	16QAM	1	0	16.30	16.30	16.32	16.26		
15	16QAM	1	37	16.17	16.21	16.21	16.26	17.2	1
15	16QAM	1	74	16.09	16.21	16.15	16.10		
15	16QAM	36	0	15.09	15.17	15.05	15.05		
15	16QAM	36	20	15.00	15.07	14.95	15.02		
15	16QAM	36	39	15.07	15.12	14.97	15.14	16.2	2
15	16QAM	75	0	15.06	15.19	15.12	15.09		
15	64QAM	1	0	15.17	15.22	15.19	15.24		
15	64QAM	1	37	15.16	15.28	15.14	15.26		
15	64QAM	1	74	15.03	15.25	15.17	15.12	16.2	2
15	64QAM	36	0	14.22	14.25	14.11	14.19		
15	64QAM	36	20	14.13	14.17	14.07	14.22		
15	64QAM	36	39	14.13	14.30	14.23	14.13		
15	64QAM	75	0	13.96	14.01	13.93	13.86	15.2	3
15	256QAM	1	0	11.90	11.81	11.86	11.95		
15	256QAM	1	37	11.79	11.76	11.69	11.84		
15	256QAM	1	74	11.83	11.83	11.79	11.93		
15	256QAM	36	0	11.95	11.76	11.83	11.85	13.2	5
15	256QAM	36	20	11.82	11.65	11.77	11.90		
15	256QAM	36	39	11.86	11.73	11.88	11.93		
15	256QAM	75	0	11.73	11.64	11.71	11.76		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.01	17.24	17.14	17.17	18.2	0
10	QPSK	1	25	16.97	17.13	17.14	17.13		
10	QPSK	1	49	17.01	17.11	17.08	16.96		
10	QPSK	25	0	16.26	16.33	16.19	16.27		
10	QPSK	25	12	16.12	16.28	16.14	16.19	17.2	1
10	QPSK	25	25	16.10	16.06	16.12	16.11		
10	QPSK	50	0	16.03	16.21	16.06	16.04		
10	16QAM	1	0	16.25	16.31	16.33	16.28		
10	16QAM	1	25	16.16	16.20	16.27	16.24	17.2	1
10	16QAM	1	49	16.04	16.19	16.13	16.08		
10	16QAM	25	0	15.08	15.16	15.01	15.10		
10	16QAM	25	12	15.00	15.10	14.96	15.06		
10	16QAM	25	25	15.07	15.17	14.97	15.10	16.2	2
10	16QAM	50	0	15.11	15.26	15.09	15.09		
10	64QAM	1	0	15.19	15.22	15.16	15.26		
10	64QAM	1	25	15.16	15.30	15.14	15.25		
10	64QAM	1	49	15.05	15.26	15.17	15.09	16.2	2
10	64QAM	25	0	14.23	14.30	14.12	14.20		
10	64QAM	25	12	14.13	14.21	14.00	14.21		
10	64QAM	25	25	14.18	14.22	14.21	14.16		
10	64QAM	50	0	13.92	14.05	13.93	13.91	15.2	3
10	256QAM	1	0	11.89	11.78	11.90	11.96		
10	256QAM	1	25	11.79	11.69	11.66	11.83		
10	256QAM	1	49	11.82	11.79	11.76	11.92		
10	256QAM	25	0	11.88	11.76	11.81	11.86	13.2	5
10	256QAM	25	12	11.89	11.70	11.72	11.85		
10	256QAM	25	25	11.92	11.74	11.83	11.90		
10	256QAM	50	0	11.70	11.62	11.74	11.72		
Channel				55285	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.00	17.23	17.15	17.13	18.2	0
5	QPSK	1	12	16.99	17.14	17.14	17.15		
5	QPSK	1	24	17.06	17.10	17.03	16.95		
5	QPSK	12	0	16.24	16.33	16.14	16.26		
5	QPSK	12	7	16.08	16.22	16.20	16.18	17.2	1
5	QPSK	12	13	16.09	16.10	16.11	16.08		
5	QPSK	25	0	15.98	16.14	16.08	16.09		
5	16QAM	1	0	16.27	16.33	16.27	16.24		
5	16QAM	1	12	16.15	16.22	16.22	16.27	17.2	1
5	16QAM	1	24	16.06	16.16	16.16	16.13		
5	16QAM	12	0	15.13	15.14	14.99	15.05		
5	16QAM	12	7	14.97	15.07	14.92	15.02		
5	16QAM	12	13	15.12	15.14	14.94	15.13	16.2	2
5	16QAM	25	0	15.09	15.23	15.13	15.06		
5	64QAM	1	0	15.19	15.29	15.14	15.24		
5	64QAM	1	12	15.20	15.27	15.19	15.22		
5	64QAM	1	24	15.05	15.24	15.13	15.06	16.2	2
5	64QAM	12	0	14.22	14.24	14.13	14.24		
5	64QAM	12	7	14.13	14.20	14.04	14.16		
5	64QAM	12	13	14.19	14.24	14.24	14.19		
5	64QAM	25	0	13.90	14.02	13.99	13.91	15.2	3
5	256QAM	1	0	11.85	11.82	11.93	11.99		
5	256QAM	1	12	11.77	11.69	11.68	11.83		
5	256QAM	1	24	11.87	11.84	11.78	11.94		
5	256QAM	12	0	11.96	11.74	11.75	11.89	13.2	5
5	256QAM	12	7	11.87	11.64	11.74	11.91		
5	256QAM	12	13	11.93	11.76	11.85	11.89		
5	256QAM	25	0	11.75	11.62	11.73	11.73		





Reduced Power Level for WWAN

ECI7

GSM850 ECI7

GSM850 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.67	31.86	31.75	32.80	22.67	22.86	22.75	23.80
GPRS 1 Tx slot	31.55	31.72	31.55	32.80	22.55	22.72	22.55	23.80
GPRS 2 Tx slots	30.84	31.10	30.97	31.80	24.94	25.10	24.97	25.80
GPRS 3 Tx slots	28.88	29.01	28.89	30.30	24.62	24.75	24.63	26.04
GPRS 4 Tx slots	27.70	27.76	27.71	29.30	24.70	24.76	24.71	26.30
EDGE 1 Tx slot	25.84	25.96	25.78	27.30	16.84	16.96	16.78	18.30
EDGE 2 Tx slots	24.55	24.64	24.59	26.30	18.55	18.64	18.59	20.30
EDGE 3 Tx slots	22.10	22.15	22.06	23.80	17.84	17.89	17.80	19.54
EDGE 4 Tx slots	21.04	21.13	21.03	22.80	18.04	18.13	18.03	19.80

GSM1900 ECI7

GSM1900 TX Channel Frequency (MHz)	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	21.96	21.85	21.93	23.50	12.96	12.85	12.93	14.50
GPRS 1 Tx slot	21.82	21.81	21.89	23.50	12.82	12.81	12.89	14.50
GPRS 2 Tx slots	21.09	21.05	21.07	22.50	15.09	15.05	15.07	16.50
GPRS 3 Tx slots	20.04	20.05	19.98	21.50	15.78	15.79	15.72	17.24
GPRS 4 Tx slots	18.81	18.95	18.92	20.50	15.81	15.95	15.92	17.50
EDGE 1 Tx slot	18.88	18.89	19.10	19.50	9.88	9.89	10.10	10.50
EDGE 2 Tx slots	17.61	17.51	17.84	18.50	11.61	11.51	11.84	12.50
EDGE 3 Tx slots	15.21	15.26	15.53	16.50	10.95	11.00	11.27	12.24
EDGE 4 Tx slots	14.13	14.05	14.25	15.50	11.13	11.05	11.25	12.50

WCDMA II ECI7

WCDMA V ECI7

Band TX Channel Frequency (MHz)	WCDMA II			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	9262	9400	9538		4132	4182	4233	
	9662	9800	9938		4357	4407	4458	
	1952.4	1980	1971.6		353.4	353.4	349.6	
3GPP Rel 99 AMR 12.2Kbps	11.75	11.84	11.67	13.30	20.97	21.22	21.16	22.30
3GPP Rel 99 RMC 12.2Kbps	11.80	11.97	11.89	13.30	21.23	21.34	21.27	22.30
3GPP Rel 6 HSDPA Subtest-1	11.10	11.02	10.99	12.30	20.44	20.42	20.35	21.30
3GPP Rel 6 HSDPA Subtest-2	11.23	11.10	11.04	12.30	20.40	20.54	20.32	21.30
3GPP Rel 6 HSDPA Subtest-3	10.79	10.58	10.51	11.80	20.20	19.93	20.02	20.80
3GPP Rel 6 HSDPA Subtest-4	10.74	10.62	10.59	11.80	20.07	20.06	19.93	20.80
3GPP Rel 6 DC-HSDPA Subtest-1	11.02	11.09	10.93	12.30	20.39	20.45	20.31	21.30
3GPP Rel 6 DC-HSDPA Subtest-2	10.91	11.19	10.94	12.30	20.26	20.61	20.42	21.30
3GPP Rel 6 DC-HSDPA Subtest-3	10.56	10.61	10.39	11.80	19.85	19.97	19.84	20.80
3GPP Rel 6 DC-HSDPA Subtest-4	10.38	10.75	10.64	11.80	19.72	20.19	20.06	20.80
3GPP Rel 6 HSUPA Subtest-1	11.10	10.96	11.10	12.30	20.57	20.42	20.48	21.30
3GPP Rel 6 HSUPA Subtest-2	9.12	9.18	9.01	10.30	18.59	18.57	18.36	19.30
3GPP Rel 6 HSUPA Subtest-3	10.18	10.15	10.04	11.30	19.47	19.53	19.36	20.30
3GPP Rel 6 HSUPA Subtest-4	9.19	9.19	8.98	10.30	18.53	18.55	18.40	19.30
3GPP Rel 6 HSUPA Subtest-5	11.18	11.24	11.01	12.30	20.60	20.61	20.50	21.30



Band 2 Ant0 EC17									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Turn-up (min)	MPR (dB)	
Channel				Ch. 1 / Freq.	Ch. 2 / Freq.	Ch. 3 / Freq.			
20	QPSK	1	0	13.88	13.62	13.90			
20	QPSK	1	49	13.86	13.90	13.88	15.3	0	
20	QPSK	1	99	13.73	13.88	13.70			
20	QPSK	50	0	13.03	13.12	12.97			
20	QPSK	50	24	13.08	13.08	13.08	14.3	1	
20	QPSK	50	50	13.00	13.07	12.98			
20	QPSK	100	0	13.02	13.05	12.97			
20	QPSK	100	24	12.95	12.97	12.97	14.3	1	
20	QPSK	100	49	12.83	12.83	12.87			
20	QPSK	150	0	12.80	12.86	12.83			
20	QPSK	150	24	12.86	12.80	12.86	13.3	2	
20	QPSK	150	49	11.75	11.83	11.85			
20	QPSK	50	50	11.79	11.84	11.80			
20	QPSK	100	0	11.92	12.00	12.00			
20	QPSK	100	24	11.92	12.00	11.98	13.3	2	
20	QPSK	100	49	11.76	11.91	11.96			
20	QPSK	150	0	11.86	11.90	11.80			
20	QPSK	150	24	11.91	11.90	11.80	13.3	2	
20	QPSK	150	49	10.91	10.96	10.90			
20	QPSK	200	0	10.90	10.92	10.72			
20	QPSK	200	24	10.96	10.90	10.83	12.3	3	
20	QPSK	200	49	10.90	11.04	10.94			
20	QPSK	250	0	8.85	8.85	8.86			
20	QPSK	250	24	8.78	8.81	8.73	10.3	5	
20	QPSK	250	49	8.86	8.88	8.85			
20	QPSK	300	0	8.85	8.85	8.84			
20	QPSK	300	24	8.84	8.72	8.81	10.3	5	
20	QPSK	300	49	8.82	8.74	8.82			
20	QPSK	100	50	8.85	8.85	8.84			
Channel				18975	18960	18925	Turn-up (min)	MPR (dB)	
15	QPSK	1	0	13.77	13.80	13.87			
15	QPSK	1	49	13.27	13.27	13.27	15.3	0	
15	QPSK	1	74	13.59	13.72	13.63			
15	QPSK	36	0	12.90	13.10	12.83			
15	QPSK	36	24	13.00	13.00	13.00	14.3	1	
15	QPSK	36	39	12.94	13.00	12.90			
15	QPSK	75	0	12.87	12.87	12.87			
15	QPSK	75	24	12.87	12.89	12.84	14.3	1	
15	QPSK	75	49	11.76	11.84	11.84			
15	QPSK	36	20	11.71	11.79	11.81	13.3	2	
15	QPSK	36	45	11.85	11.90	11.85			
15	QPSK	75	0	11.84	12.02	11.90			
15	QPSK	75	24	11.85	12.01	11.92	13.3	2	
15	QPSK	75	49	11.68	11.88	11.88			
15	QPSK	144	0	11.76	11.85	11.77			
15	QPSK	144	36	10.83	10.84	10.74			
15	QPSK	144	72	10.75	10.75	10.65	14.3	3	
15	QPSK	144	108	10.91	10.91	10.74			
15	QPSK	144	144	10.86	10.87	10.88			
15	QPSK	180	0	8.75	8.75	8.74			
15	QPSK	180	24	8.71	8.70	8.69	10.3	5	
15	QPSK	180	49	8.79	8.81	8.79			
15	QPSK	225	0	8.78	8.78	8.78			
15	QPSK	225	24	8.76	8.88	8.87	10.3	5	
15	QPSK	225	49	8.89	8.74	8.78			
15	QPSK	225	75	8.80	8.80	8.78			
Channel				18960	18960	18916	Turn-up (min)	MPR (dB)	
10	QPSK	1	0	13.12	13.12	13.12			
10	QPSK	1	25	13.09	13.73	13.56	17.3	0	
10	QPSK	1	49	13.05	13.70	13.58			
10	QPSK	12	0	12.99	12.99	12.82			
10	QPSK	25	25	12.90	12.98	12.96	14.3	1	
10	QPSK	25	50	12.80	12.80	12.80			
10	QPSK	50	0	12.86	12.81	12.77			
10	QPSK	50	24	12.78	12.83	12.67	14.3	1	
10	QPSK	50	49	11.72	11.80	11.82			
10	QPSK	100	0	11.81	11.79	11.82			
10	QPSK	100	24	11.72	11.84	11.84	13.3	2	
10	QPSK	100	49	11.85	12.00	11.94			
10	QPSK	150	0	11.85	11.99	11.87			
10	QPSK	150	24	11.82	11.88	11.87	13.3	2	
10	QPSK	150	49	11.77	11.79	11.68			
10	QPSK	200	0	10.86	10.91	10.74			
10	QPSK	200	24	10.74	10.77	10.67	12.3	3	
10	QPSK	200	49	10.84	10.79	10.69			
10	QPSK	250	0	10.77	10.90	10.67			
10	QPSK	250	24	10.71	10.85	10.87	10.3	5	
10	QPSK	250	49	8.68	8.68	8.69			
10	QPSK	250	75	8.72	8.77	8.78			
10	QPSK	250	100	8.76	8.68	8.67	10.3	5	
10	QPSK	250	125	8.80	8.70	8.76			
10	QPSK	250	150	8.80	8.78	8.78			
Channel				18916	18900	18916	Turn-up (min)	MPR (dB)	
3	QPSK	1	0	13.58	13.61	13.78			
3	QPSK	1	14	13.68	13.72	13.66	17.3	0	
3	QPSK	3	0	13.69	13.69	13.60			
3	QPSK	3	14	13.58	13.67	13.68			
3	QPSK	12	7	13.01	13.00	12.80	14.3	1	
3	QPSK	12	13	12.95	13.04	12.86			
3	QPSK	25	0	12.88	12.88	12.82			
3	QPSK	25	13	12.87	12.80	12.82	14.3	1	
3	QPSK	50	0	11.76	11.80	11.80			
3	QPSK	50	12	11.80	11.73	11.50	13.3	2	
3	QPSK	100	0	11.84	11.90	11.87			
3	QPSK	100	24	11.73	11.88	11.91	13.3	2	
3	QPSK	100	49	10.79	10.83	10.74			
3	QPSK	100	74	10.74	10.77	10.67	12.3	3	
3	QPSK	100	99	10.70	10.80	10.78			
3	QPSK	150	0	10.86	10.82	10.80			
3	QPSK	150	24	8.77	8.77	8.60	10.3	5	
3	QPSK	150	49	8.76	8.67	8.67			
3	QPSK	150	75	8.80	8.69	8.73	10.3	5	
3	QPSK	150	100	8.83	8.68	8.67			
Channel				18900	18900	18916	Turn-up (min)	MPR (dB)	
1.4	QPSK	1	0	13.77	13.80	13.80			
1.4	QPSK	1	3	13.61	13.72	13.67	17.3	0	
1.4	QPSK	1	5	13.62	13.63	13.56			
1.4	QPSK	3	0	13.74	13.87	13.71			
1.4	QPSK	3	1	13.77	13.70	13.59	14.3	1	
1.4	QPSK	3	3	13.77	13.62	13.71			
1.4	QPSK	15	0	12.90	12.85	12.73			
1.4	QPSK	15	1	12.75	12.80	12.64	14.3	1	
1.4	QPSK	15	3	12.71	12.82	12.83			
1.4	QPSK	15	5	12.86	12.78	12.84			
1.4	QPSK	30	0	11.75	11.80	11.66			
1.4	QPSK	30	1	11.82	11.87	11.98	13.3	2	
1.4	QPSK	30	3	11.86	11.88	11.86			
1.4	QPSK	30	5	11.84	11.91	11.91	13.3	2	
1.4	QPSK	60	0	11.86	11.86	11.71			
1.4	QPSK	60	1	10.76	10.76	10.69	12.3	3	
1.4	QPSK	60	3	10.70	10.86	10.75			
1.4	QPSK	60	5	10.80	10.78	10.74			
1.4	QPSK	60	7	8.70	8.78	8.88			
1.4	QPSK	60	9	8.68	8.70	8.69	10.3	5	
1.4	QPSK	60	11	8.72	8.78	8.77			
1.4	QPSK	60	13	8.75	8.68	8.78			
1.4	QPSK	60	15	8.77	8.65	8.74	10.3	5	
1.4	QPSK	60	17	8.63	8.63	8.64			
Channel				18916	18900	18916	Turn-up (min)	MPR (dB)	
1.4	QPSK	1	0	13.57	13.60	13.60			
1.4	QPSK	1	3	13.41	13.42	13.41	17.3	0	
1.4	QPSK	1	5	13.42	13.42	13.41			
1.4	QPSK	3	0	13.48	13.48	13.48			
1.4	QPSK	3	1	13.40	13.43	13.43	14.3	1	
1.4	QPSK	3	3	13.25	13.40	13.29			
1.4	QPSK								



Band 12 Ant0 EC17															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power Mid Ch./F.Freq.	Time-up (min)	MPE (dB)							
Channel									704	707.5	711				
10	QPSK	1	0	22.70	22.77	22.73	24	0							
10	QPSK	1	25	22.84	22.91	22.88									
10	QPSK	1	49	22.51	22.63	22.56									
10	QPSK	25	0	21.56	21.66	21.52									
10	QPSK	25	12	21.52	21.63	21.52									
10	QPSK	25	25	21.52	21.60	21.50	23	1							
10	QPSK	50	0	21.56	21.66	21.57									
10	16QAM	1	0	21.52	21.66	21.51									
10	16QAM	1	25	21.47	21.53	21.48	23	1							
10	16QAM	1	49	21.48	21.57	21.51									
10	16QAM	25	0	20.59	20.59	20.47									
10	16QAM	25	12	20.39	20.51	20.44	22	2							
10	16QAM	25	25	20.51	20.57	20.51									
10	16QAM	50	0	20.59	20.59	20.51									
10	16QAM	1	0	20.59	20.59	20.55									
10	16QAM	1	25	20.53	20.53	20.44	22	2							
10	16QAM	1	49	20.53	20.59	20.49									
10	16QAM	25	0	19.54	19.58	19.47									
10	16QAM	25	12	19.41	19.52	19.44	21	3							
10	16QAM	25	25	19.58	19.58	19.53									
10	16QAM	50	0	19.38	19.51	19.45									
10	16QAM	1	0	17.77	17.86	17.79									
10	256QAM	1	25	17.70	17.69	17.67	19	5							
10	256QAM	1	49	17.78	17.70	17.74									
10	256QAM	25	0	17.56	17.63	17.54									
10	256QAM	25	12	17.74	17.78	17.75									
10	256QAM	25	25	17.82	17.78	17.74	19	5							
10	256QAM	50	0	17.82	17.78	17.74									
10	256QAM	100	0	17.82	17.78	17.74									
Channel									2105	2105	2105	Time-up (min)	MPE (dB)		
Frequency (MHz)									701.5	707.5	714.5				
5	QPSK	1	0	22.59	22.71	22.67	24	0							
5	QPSK	1	24	22.44	22.63	22.45									
5	QPSK	1	24	22.48	22.53	22.50									
5	QPSK	12	0	21.46	21.62	21.48									
5	QPSK	12	7	21.57	21.67	21.44									
5	QPSK	12	13	21.44	21.48	21.47	23	1							
5	QPSK	25	0	21.42	21.54	21.42									
5	16QAM	1	0	21.41	21.58	21.48									
5	16QAM	1	12	21.33	21.41	21.43	23	1							
5	16QAM	1	24	21.34	21.42	21.42									
5	16QAM	12	7	20.33	20.43	20.34	22	2							
5	16QAM	12	0	20.44	20.48	20.43									
5	16QAM	25	0	20.41	20.42	20.37									
5	16QAM	1	0	20.35	20.35	20.30	22	2							
5	16QAM	1	24	20.45	20.57	20.38									
5	16QAM	12	0	19.43	19.52	19.37									
5	16QAM	12	7	19.54	19.67	19.37									
5	16QAM	12	13	19.40	19.45	19.44	21	3							
5	16QAM	25	0	19.33	19.38	19.40									
5	16QAM	1	0	17.86	17.86	17.81									
5	256QAM	1	24	17.75	17.76	17.72	19	5							
5	256QAM	1	49	17.79	17.77	17.77									
5	256QAM	12	7	17.75	17.75	17.73									
5	256QAM	12	13	17.72	17.71	17.74	19	5							
5	256QAM	25	0	17.72	17.71	17.74									
5	256QAM	50	0	17.72	17.71	17.74									
Channel									2105	2105	2105	Time-up (min)	MPE (dB)		
Frequency (MHz)									701.5	707.5	714.5				
3	QPSK	1	0	22.74	22.81	22.78	24	0							
3	QPSK	1	14	22.40	22.52	22.48									
3	QPSK	8	7	21.45	21.58	21.44	23	1							
3	QPSK	8	7	21.45	21.58	21.44									
3	16QAM	1	0	21.30	21.63	21.51									
3	16QAM	1	8	21.43	21.39	21.41	23	1							
3	16QAM	1	8	21.44	21.43	21.42									
3	16QAM	8	4	20.34	20.40	20.38	22	2							
3	16QAM	8	4	20.38	20.51	20.45									
3	16QAM	15	0	20.45	20.44	20.41									
3	16QAM	1	0	20.30	20.35	20.43	22	2							
3	16QAM	1	8	20.43	20.48	20.32									
3	16QAM	1	14	20.35	20.48	20.42									
3	16QAM	8	0	19.40	19.47	19.32									
3	16QAM	8	7	19.20	19.45	19.30	21	3							
3	16QAM	15	0	19.29	19.38	19.41									
3	256QAM	1	0	17.62	17.65	17.63									
3	256QAM	1	8	17.70	17.75	17.72	19	5							
3	256QAM	1	14	17.78	17.81	17.70									
3	256QAM	8	0	17.61	17.75	17.62									
3	256QAM	8	4	17.71	17.72	17.76									
3	256QAM	8	7	17.79	17.82	17.83	19	5							
3	256QAM	15	0	17.69	17.71	17.77									
Channel									2107	2107	2107	Time-up (min)	MPE (dB)		
Frequency (MHz)									699.7	707.5	715.3				
1.4	QPSK	1	0	22.55	22.67	22.67	24	0							
1.4	QPSK	1	5	22.38	22.57	22.43									
1.4	QPSK	3	0	22.51	22.61	22.42									
1.4	QPSK	3	1	22.48	22.54	22.44									
1.4	QPSK	3	3	22.40	22.51	22.45	23	1							
1.4	16QAM	1	0	21.48	21.63	21.57									
1.4	16QAM	1	3	21.37	21.43	21.38									
1.4	16QAM	3	0	21.38	21.47	21.37									
1.4	16QAM	3	0	21.43	21.49	21.34	23	1							
1.4	16QAM	3	1	21.37	21.40	21.33									
1.4	16QAM	3	1	21.40	21.53	21.39									
1.4	16QAM	6	0	20.40	20.43	20.40	22	2							
1.4	16QAM	1	0	20.48	20.65	20.51									
1.4	16QAM	1	3	20.49	20.51	20.39									
1.4	16QAM	1	6	20.39	20.54	20.43	22	2							
1.4	16QAM	3	0	20.45	20.46	20.36									
1.4	16QAM	3	0	20.37	20.39	20.36									
1.4	16QAM	3	3	20.46	20.55	20.40									
1.4	16QAM	8	0	19.27	19.47	19.33	21	3							
1.4	256QAM	1	0	17.85	17.86	17.87									
1.4	256QAM	1	5	17.68	17.73	17.70	19	5							
1.4	256QAM	1	5	17.78	17.72	17.81									
1.4	256QAM	3	1	17.74	17.77	17.74									
1.4	256QAM	3	1	17.74	17.68	17.73									
1.4	256QAM	3	1	17.79	17.72	17.77	19	5							
1.4	256QAM	6	0	17.78	17.69	17.74									

Band 13 Ant0 EC17															
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./F.Freq.	Power High Ch./F.Freq.	Power Mid Ch./F.Freq.	Time-up (min)	MPE (dB)							
Channel									762						
10	QPSK	1	0	22.89	22.95	22.92	24	0							
10	QPSK	1	49	22.71	22.71	22.71									
10	QPSK	25	0	21.70	21.82	21.62									
10	QPSK	25	12	21.62	21.62	21.62	23	1							
10	QPSK	25	25	21.62	21.62	21.62									
10	QPSK	50	0	21.63	21.63	21.63									
10	16QAM	1	25	21.59	21.59	21.59	23	1							
10	16QAM	1	49	21.54	21.54	21.54									
10	16QAM	25	0	20.42	20.42	20.42									
10	16QAM	25	12	20.49	20.49	20.49	22	2							
10	16QAM	25	25	20.42	20.42	20.42									
10	16QAM	50	0	20.42	20.42	20.42									
10	16QAM	1	0	20.42	20.42	20.42									
10	16QAM	1	25	20.44	20.44	20.44	22	2							
10	16QAM	1	49	20.44	20.44	20.44									
10	16QAM	25	0	19.52	19.52	19.52									
10	16QAM	25	12	19.53	19.53	19.53	21	3							
10	16QAM	25	25	19.52	19.52	19.52									
10	16QAM	50	0	19.50	19.50	19.50									
10	16QAM	1	0	17.87	17.87	17.87									
10	256QAM	1	25	17.87	17.87	17.87	19	5							
10	256QAM	1	49	17.82	17.82	17.82									
10	256QAM	25	0	17.82	17.82	17.82									
10	256QAM	25	12	17.78	17.78	17.78									
10	256QAM	25	25	17.84	17.84	17.84	19	5							
10	256QAM	50	0	17.84	17.84	17.84									
10	256QAM	100	0	17.84	17.84	17.84									
Channel									2105	2105	2105	Time-up (min)	MPE (dB)		
Frequency (MHz)									779.5	782	784.5				
5	QPSK	1	0	22.72	22.74	22.70	24	0							
5	QPSK	1	12	22.65	22.66	22.61									
5	QPSK	1	24	22.48	22.62	22.50									
5	QPSK	12	0	21.49	21.59	21.50									
5	QPSK	12	7	21.38	21.58	21.52									
5	QPSK	12	13	21.48	21.58	21.48	23	1							
5	QPSK	25	0	21.47	21.54	21.47									
5	16QAM	1	0	21.47	21.62	21.41									
5	16QAM	1	12	21.42	21.50	21.32	23	1							
5	16QAM	1	24	21.42	21.47	21.34									
5	16QAM	12	0	20.34	20.44	20.41									
5	16QAM	12	7												



Band 2 Ant1 EC17										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.69	15.72	15.64				
20	QPSK	1	49	15.82	15.84	15.78	17	0		
20	QPSK	50	0	14.71	14.88	14.64				
20	QPSK	50	24	14.87	14.94	14.84				
20	QPSK	50	50	14.89	14.87	14.81	16	1		
20	QPSK	100	0	14.80	14.82	14.74				
20	QPSK	100	0	14.81	14.82	14.80				
20	HQAM	1	49	14.58	14.56	14.45	16	1		
20	HQAM	1	99	14.60	14.56	14.54				
20	HQAM	50	0	13.89	13.79	13.63				
20	HQAM	50	24	13.81	13.72	13.51	15	2		
20	HQAM	50	50	13.86	13.88	13.70				
20	HQAM	100	0	13.77	13.84	13.70				
20	HQAM	1	0	13.61	13.69	13.48				
20	HQAM	1	49	13.53	13.59	13.54	15	2		
20	HQAM	50	0	12.70	12.72	12.55				
20	HQAM	50	24	12.67	12.71	12.49				
20	HQAM	50	50	12.74	12.73	12.51	14	3		
20	ZSSBAM	1	49	10.88	10.77	10.67	12	5		
20	ZSSBAM	1	99	10.78	10.79	10.85				
20	ZSSBAM	50	0	10.53	10.52	10.53				
20	ZSSBAM	50	24	10.68	10.70	10.68	12	5		
20	ZSSBAM	50	50	10.76	10.71	10.81				
20	ZSSBAM	100	0	10.25	10.27	10.27				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.71	15.71	15.65				
15	QPSK	1	37	15.64	15.66	15.61	17	0		
15	QPSK	1	74	15.55	15.69	15.67				
15	QPSK	36	0	14.88	14.70	14.59				
15	QPSK	36	18	14.41	14.51	14.40				
15	QPSK	36	36	14.58	14.58	14.55	16	1		
15	QPSK	75	0	14.76	14.48	14.38				
15	HQAM	1	37	14.51	14.50	14.38	16	1		
15	HQAM	1	74	14.44	14.48	14.40				
15	HQAM	36	0	13.62	13.69	13.53				
15	HQAM	36	20	13.53	13.68	13.34	15	2		
15	HQAM	36	39	13.67	13.67	13.63				
15	HQAM	75	0	13.71	13.83	13.67				
15	HQAM	1	0	13.49	13.70	13.43				
15	HQAM	37	0	13.44	13.44	13.42	15	2		
15	HQAM	74	0	13.47	13.54	13.51				
15	HQAM	36	0	12.61	12.67	12.51				
15	HQAM	36	20	12.44	12.68	12.43				
15	HQAM	36	39	12.59	12.62	12.51	14	3		
15	HQAM	75	0	12.70	12.61	12.66				
15	ZSSBAM	1	37	10.58	10.58	10.53	12	5		
15	ZSSBAM	1	74	10.72	10.67	10.77				
15	ZSSBAM	36	0	10.63	10.63	10.63				
15	ZSSBAM	36	20	10.83	10.65	10.53	12	5		
15	ZSSBAM	36	39	10.65	10.64	10.69				
15	ZSSBAM	75	0	10.69	10.63	10.63				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.67	15.67	15.61				
10	QPSK	1	25	15.54	15.65	15.59	17	0		
10	QPSK	1	49	15.59	15.69	15.58				
10	QPSK	1	74	15.54	15.64	15.54				
10	QPSK	25	12	14.45	14.40	14.44				
10	QPSK	25	25	14.62	14.62	14.48	16	1		
10	QPSK	50	0	14.68	14.68	14.68				
10	HQAM	1	0	14.39	14.62	14.48				
10	HQAM	1	25	14.45	14.65	14.39	16	1		
10	HQAM	25	0	13.89	13.68	13.48				
10	HQAM	25	12	13.68	13.68	13.45	15	2		
10	HQAM	50	0	13.59	13.70	13.63				
10	HQAM	1	0	13.43	13.62	13.42				
10	HQAM	25	0	13.50	13.63	13.57	15	2		
10	HQAM	1	49	13.43	13.57	13.48				
10	HQAM	25	0	12.61	12.64	12.40				
10	HQAM	25	12	12.67	12.67	12.43				
10	HQAM	25	25	12.59	12.68	12.57	14	3		
10	HQAM	50	0	12.68	12.69	12.74				
10	ZSSBAM	1	25	10.63	10.63	10.57	12	5		
10	ZSSBAM	1	49	10.83	10.85	10.58				
10	ZSSBAM	1	49	10.88	10.84	10.75				
10	ZSSBAM	25	0	10.73	10.76	10.74				
10	ZSSBAM	25	12	10.81	10.71	10.59	12	5		
10	ZSSBAM	25	25	10.67	10.56	10.60				
10	ZSSBAM	50	0	10.62	10.63	10.57				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.67	15.67	15.61				
5	QPSK	1	12	15.53	15.65	15.57	17	0		
5	QPSK	1	24	15.52	15.68	15.58				
5	QPSK	12	0	14.67	14.67	14.67				
5	QPSK	12	7	14.43	14.55	14.43				
5	QPSK	12	13	14.61	14.61	14.60	16	1		
5	QPSK	25	0	14.71	14.73	14.67				
5	HQAM	1	0	14.37	14.50	14.47				
5	HQAM	1	12	14.42	14.45	14.42	16	1		
5	HQAM	12	0	13.89	13.68	13.48				
5	HQAM	12	7	13.47	13.69	13.45	15	2		
5	HQAM	25	0	13.67	13.64	13.62				
5	HQAM	25	0	13.69	13.73	13.61				
5	HQAM	1	0	13.46	13.65	13.44				
5	HQAM	12	0	13.50	13.52	13.47	15	2		
5	HQAM	1	24	13.46	13.57	13.48				
5	HQAM	12	0	12.65	12.65	12.45				
5	HQAM	12	7	12.61	12.71	12.49				
5	HQAM	12	13	12.59	12.68	12.60	14	3		
5	HQAM	25	0	12.66	12.70	12.76				
5	ZSSBAM	1	0	10.75	10.79	10.69				
5	ZSSBAM	1	12	10.67	10.71	10.56	12	5		
5	ZSSBAM	1	24	10.70	10.64	10.70				
5	ZSSBAM	12	0	10.68	10.78	10.74				
5	ZSSBAM	12	7	10.59	10.55	10.54	12	5		
5	ZSSBAM	12	13	10.64	10.59	10.70				
5	ZSSBAM	25	0	10.65	10.70	10.59				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.67	15.67	15.61				
3	QPSK	1	8	15.62	15.67	15.57	17	0		
3	QPSK	1	14	15.55	15.72	15.61				
3	QPSK	3	0	14.53	14.66	14.54				
3	QPSK	8	4	14.43	14.53	14.44				
3	QPSK	8	7	14.60	14.66	14.40	16	1		
3	QPSK	15	0	14.72	14.73	14.67				
3	HQAM	1	0	14.37	14.51	14.49				
3	HQAM	1	8	14.43	14.63	14.41	16	1		
3	HQAM	3	0	14.49	14.58	14.46				
3	HQAM	3	8	13.69	13.66	13.49				
3	HQAM	8	4	13.47	13.64	13.46	15	2		
3	HQAM	8	7	13.65	13.67	13.62				
3	HQAM	15	0	13.70	13.71	13.63				
3	HQAM	1	0	13.44	13.61	13.41				
3	HQAM	1	8	13.49	13.48	13.50	15	2		
3	HQAM	1	14	13.47	13.55	13.52				
3	HQAM	8	0	12.65	12.69	12.41				
3	HQAM	8	4	12.49	12.73	12.44	14	3		
3	HQAM	8	7	12.60	12.67	12.57				
3	ZSSBAM	15	0	10.64	10.77	10.74				
3	ZSSBAM	1	8	10.64	10.71	10.56	12	5		
3	ZSSBAM	14	0	10.74	10.77	10.71				
3	ZSSBAM	8	0	10.54	10.67	10.73				
3	ZSSBAM	8	4	10.58	10.75	10.53	12	5		
3	ZSSBAM	8	7	10.64	10.59	10.68				
3	ZSSBAM	15	0</							



Band 12 Ant1 ECI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.91	22.94	22.96				
10	QPSK	1	25	22.81	22.84	22.86			24	0
10	QPSK	1	49	22.78	22.81	22.83				
10	QPSK	25	0	21.71	21.81	21.70				
10	QPSK	25	12	21.73	21.78	21.80				
10	QPSK	25	25	21.84	21.74	21.82			23	1
10	QPSK	50	0	21.73	21.83	21.80				
10	16QAM	50	0	21.82	21.84	21.86				
10	16QAM	1	25	21.75	21.84	21.75			23	1
10	16QAM	1	49	21.69	21.82	21.74				
10	16QAM	25	0	20.70	20.84	20.78				
10	16QAM	25	12	20.87	20.81	20.78			22	2
10	16QAM	25	25	20.99	20.72	20.80				
10	16QAM	50	0	20.77	20.85	20.79				
10	64QAM	1	0	20.86	20.98	20.89				
10	64QAM	1	25	20.74	20.96	20.71			22	2
10	64QAM	1	49	20.84	20.98	20.72				
10	64QAM	25	0	19.77	19.87	19.75				
10	64QAM	25	12	19.73	19.81	19.73			21	3
10	64QAM	25	25	21.82	19.88	19.88				
10	64QAM	50	0	19.81	19.88	19.84				
10	256QAM	1	25	17.84	17.95	17.90			19	5
10	256QAM	1	49	17.95	17.88	17.87				
10	256QAM	25	0	17.87	17.90	17.88				
10	256QAM	25	12	17.87	17.90	17.88			19	5
10	256QAM	25	25	17.91	17.84	17.80				
10	256QAM	50	0	17.85	17.85	17.85				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.79	22.79	22.73				
5	QPSK	1	12	22.72	22.82	22.80			24	0
5	QPSK	1	24	22.65	22.74	22.66				
5	QPSK	12	0	21.70	21.70	21.64				
5	QPSK	12	7	21.62	21.48	21.50				
5	QPSK	12	13	21.55	21.67	21.59			23	1
5	QPSK	25	0	21.66	21.66	21.60				
5	16QAM	1	25	21.64	21.71	21.65				
5	16QAM	1	12	21.64	21.68	21.59			23	1
5	16QAM	1	24	21.67	21.61	21.48				
5	16QAM	12	0	20.52	20.62	20.42				
5	16QAM	12	7	20.34	20.54	20.43			22	2
5	16QAM	12	13	20.33	20.51	20.38				
5	16QAM	25	0	20.42	20.49	20.44				
5	64QAM	1	0	20.78	20.84	20.72			22	2
5	64QAM	1	12	20.61	20.59	20.52				
5	64QAM	1	24	20.55	20.65	20.44				
5	64QAM	12	0	19.59	19.67	19.48				
5	64QAM	12	7	19.33	19.43	19.31			21	3
5	64QAM	12	13	19.33	19.33	19.33				
5	64QAM	25	0	19.37	19.55	19.40				
5	256QAM	1	25	17.80	17.85	17.88			19	5
5	256QAM	1	24	17.88	17.83	17.84				
5	256QAM	12	0	17.80	17.80	17.88				
5	256QAM	12	7	17.84	17.87	17.87			19	5
5	256QAM	12	13	17.94	17.87	17.88				
5	256QAM	25	0	17.82	17.82	17.85				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.66	22.66	22.70				
3	QPSK	1	14	22.66	22.68	22.71			24	0
3	QPSK	1	28	21.65	21.68	21.54				
3	QPSK	8	7	21.60	21.66	21.57				
3	16QAM	1	28	21.66	21.61	21.48				
3	16QAM	1	0	21.71	21.90	21.70			23	1
3	16QAM	1	8	21.62	21.78	21.60				
3	16QAM	1	16	20.66	20.79	20.62				
3	16QAM	8	4	20.52	20.75	20.68			22	2
3	16QAM	8	7	20.42	20.64	20.47				
3	64QAM	1	0	20.72	20.71	20.70				
3	64QAM	1	8	20.74	20.62	20.60			22	2
3	64QAM	1	16	20.80	20.60	20.60				
3	64QAM	1	14	20.58	20.74	20.61				
3	64QAM	8	0	19.92	19.77	19.67			21	3
3	64QAM	8	4	19.80	19.68	19.61				
3	64QAM	8	7	19.52	19.63	19.55				
3	256QAM	1	0	17.86	17.77	17.72				
3	256QAM	1	14	17.91	17.85	17.81			19	5
3	256QAM	8	0	17.90	17.85	17.84				
3	256QAM	8	4	17.85	17.90	17.85				
3	256QAM	8	7	17.88	17.93	17.86			19	5
3	256QAM	15	0	17.84	17.81	17.87				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.82	22.80	22.72				
1.4	QPSK	1	3	22.66	22.77	22.77				
1.4	QPSK	1	5	22.68	22.71	22.65			24	0
1.4	QPSK	3	0	22.67	22.70	22.61				
1.4	QPSK	3	1	22.67	22.67	22.54				
1.4	QPSK	3	3	22.54	22.68	22.54				
1.4	16QAM	3	0	21.98	21.73	21.70				
1.4	16QAM	1	0	21.68	21.88	21.82			23	1
1.4	16QAM	1	3	21.67	21.75	21.67				
1.4	16QAM	1	5	21.90	21.72	21.71				
1.4	16QAM	3	0	21.64	21.70	21.72				
1.4	16QAM	3	1	21.63	21.72	21.69				
1.4	16QAM	3	3	21.54	21.67	21.57				
1.4	64QAM	1	0	20.71	20.81	20.65			22	2
1.4	64QAM	1	3	20.80	20.94	20.78				
1.4	64QAM	1	5	20.83	20.71	20.68				
1.4	64QAM	3	0	20.63	20.81	20.70			22	2
1.4	64QAM	3	3	20.70	20.70	20.62				
1.4	64QAM	3	3	20.47	20.69	20.57				
1.4	64QAM	6	0	19.70	19.78	19.77			21	3
1.4	256QAM	1	0	17.93	17.89	17.88				
1.4	256QAM	1	3	17.90	17.90	17.88			19	5
1.4	256QAM	3	0	17.89	17.87	17.88				
1.4	256QAM	3	1	17.85	17.93	17.89				
1.4	256QAM	3	1	17.89	17.89	17.88				
1.4	256QAM	3	3	17.88	17.96	17.85			19	5
1.4	256QAM	6	0	17.86	17.91	17.84				

Band 13 Ant1 ECI7										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Peak Ch./Freq.	Turn-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.82	22.82	22.82				
10	QPSK	1	25	22.81	22.82	22.82			24	0
10	QPSK	1	49	22.82	22.82	22.82				
10	QPSK	25	0	21.78	21.70	21.64				
10	QPSK	25	12	21.61	21.62	21.62				
10	QPSK	25	25	21.72	21.72	21.72			23	1
10	QPSK	50	0	21.70	21.70	21.64				
10	16QAM	50	0	21.82	21.82	21.82				
10	16QAM	1	25	21.74	21.74	21.74				
10	16QAM	1	49	21.74	21.74	21.74				
10	16QAM	25	0	20.87	20.89	20.89				
10	16QAM	25	12	20.87	20.87	20.87			22	2
10	16QAM	25	25	20.89	20.89	20.89				
10	16QAM	50	0	20.87	20.87	20.87				
10	64QAM	1	0	20.88	20.88	20.88				
10	64QAM	1	25	20.72	20.72	20.72			22	2
10	64QAM	1	49	20.89	20.89	20.89				
10	64QAM	25	0	19.70	19.70	19.70				
10	64QAM	25	12	19.54	19.54	19.54			21	3
10	64QAM	25	25	21.82	19.54	19.54				
10	64QAM	50	0	19.69	19.69	19.69				
10	256QAM	1	25	17.85	17.85					





### Band 48 Ant3 EC17

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.34	17.46	17.27	17.30	18.7	0
20	QPSK	1	49	17.30	17.36	17.33	17.25		
20	QPSK	1	99	17.20	17.29	17.22	17.26		
20	QPSK	50	0	16.34	16.36	16.25	16.31		
20	QPSK	50	24	16.18	16.28	16.19	16.22	17.7	1
20	QPSK	50	50	16.18	16.22	16.22	16.15		
20	QPSK	100	0	16.23	16.26	16.13	16.24		
20	QPSK	1	0	16.32	16.44	16.34	16.42		
20	16QAM	1	49	16.28	16.34	16.28	16.32	17.7	1
20	16QAM	1	99	16.26	16.29	16.24	16.26		
20	16QAM	50	0	15.34	15.36	15.28	15.28		
20	16QAM	50	24	15.14	15.28	15.20	15.23		
20	16QAM	50	50	15.20	15.26	15.20	15.21	16.7	2
20	16QAM	100	0	15.09	15.27	15.11	15.15		
20	64QAM	1	0	15.40	15.44	15.32	15.31		
20	64QAM	1	49	15.26	15.37	15.30	15.30		
20	64QAM	1	99	15.21	15.23	15.22	15.20	16.7	2
20	64QAM	50	0	14.31	14.38	14.25	14.29		
20	64QAM	50	24	14.26	14.34	14.20	14.20		
20	64QAM	50	50	14.21	14.29	14.22	14.19		
20	64QAM	100	0	14.09	14.15	14.18	14.04	15.7	3
20	256QAM	1	0	12.44	12.34	12.48	12.45		
20	256QAM	1	49	12.30	12.29	12.35	12.37		
20	256QAM	1	99	12.41	12.43	12.38	12.39		
20	256QAM	50	0	12.46	12.44	12.40	12.48	13.7	5
20	256QAM	50	24	12.31	12.35	12.35	12.42		
20	256QAM	50	50	12.40	12.35	12.46	12.41		
20	256QAM	100	0	12.39	12.30	12.41	12.35		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3606	3642	3692.5		
15	QPSK	1	0	17.26	17.34	17.18	17.25	18.7	0
15	QPSK	1	37	17.17	17.23	17.19	17.19		
15	QPSK	1	74	17.14	17.25	17.16	17.14		
15	QPSK	36	0	16.25	16.21	16.15	16.23		
15	QPSK	36	20	16.10	16.14	16.14	16.10	17.7	1
15	QPSK	36	39	16.09	16.12	16.10	16.08		
15	QPSK	75	0	16.11	16.12	16.00	16.13		
15	16QAM	1	0	16.19	16.38	16.28	16.38		
15	16QAM	1	37	16.13	16.24	16.20	16.18	17.7	1
15	16QAM	1	74	16.21	16.15	16.14	16.13		
15	16QAM	36	0	15.30	15.21	15.18	15.18		
15	16QAM	36	20	15.08	15.17	15.13	15.09		
15	16QAM	36	39	15.14	15.14	15.14	15.08	16.7	2
15	16QAM	75	0	15.04	15.16	15.06	15.07		
15	64QAM	1	0	15.28	15.32	15.27	15.19		
15	64QAM	1	37	15.15	15.24	15.19	15.22		
15	64QAM	1	74	15.16	15.12	15.19	15.14	16.7	2
15	64QAM	36	0	14.16	14.25	14.17	14.20		
15	64QAM	36	20	14.14	14.23	14.07	14.14		
15	64QAM	36	39	14.13	14.25	14.18	14.15		
15	64QAM	75	0	14.00	14.11	14.13	13.90	15.7	3
15	256QAM	1	0	12.36	12.19	12.35	12.35		
15	256QAM	1	37	12.21	12.22	12.31	12.32		
15	256QAM	1	74	12.37	12.32	12.26	12.33		
15	256QAM	36	0	12.37	12.30	12.27	12.38	13.7	5
15	256QAM	36	20	12.24	12.22	12.31	12.35		
15	256QAM	36	39	12.37	12.24	12.32	12.33		
15	256QAM	75	0	12.25	12.22	12.34	12.29		
Channel				55290	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	17.22	17.39	17.18	17.16	18.7	0
10	QPSK	1	25	17.25	17.23	17.26	17.11		
10	QPSK	1	49	17.12	17.15	17.10	17.13		
10	QPSK	25	0	16.26	16.31	16.14	16.24		
10	QPSK	25	12	16.05	16.23	16.12	16.14	17.7	1
10	QPSK	25	25	16.07	16.09	16.09	16.03		
10	QPSK	50	0	16.17	16.16	16.10	16.21		
10	16QAM	1	0	16.21	16.40	16.24	16.33		
10	16QAM	1	25	16.20	16.24	16.13	16.25	17.7	1
10	16QAM	1	49	16.16	16.24	16.16	16.14		
10	16QAM	25	0	15.30	15.26	15.25	15.18		
10	16QAM	25	12	15.02	15.17	15.14	15.13		
10	16QAM	25	25	15.12	15.21	15.05	15.08	16.7	2
10	16QAM	50	0	15.03	15.23	15.03	15.04		
10	64QAM	1	0	15.33	15.31	15.26	15.24		
10	64QAM	1	25	15.20	15.25	15.26	15.23		
10	64QAM	1	49	15.14	15.19	15.08	15.15	16.7	2
10	64QAM	25	0	14.20	14.29	14.21	14.18		
10	64QAM	25	12	14.12	14.25	14.14	14.06		
10	64QAM	25	25	14.16	14.26	14.15	14.15		
10	64QAM	50	0	14.01	14.02	14.11	13.96	15.7	3
10	256QAM	1	0	12.36	12.24	12.42	12.30		
10	256QAM	1	25	12.19	12.16	12.26	12.24		
10	256QAM	1	49	12.31	12.36	12.28	12.24		
10	256QAM	25	0	12.42	12.41	12.27	12.41	13.7	5
10	256QAM	25	12	12.23	12.20	12.24	12.35		
10	256QAM	25	25	12.33	12.24	12.37	12.37		
10	256QAM	50	0	12.33	12.21	12.32	12.23		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	17.29	17.37	17.17	17.22	18.7	0
5	QPSK	1	12	17.15	17.21	17.27	17.13		
5	QPSK	1	24	17.05	17.24	17.11	17.11		
5	QPSK	12	0	16.31	16.29	16.18	16.27		
5	QPSK	12	7	16.07	16.14	16.11	16.10	17.7	1
5	QPSK	12	13	16.06	16.09	16.08	16.04		
5	QPSK	25	0	16.15	16.16	16.04	16.20		
5	16QAM	1	0	16.19	16.32	16.24	16.32		
5	16QAM	1	12	16.22	16.26	16.24	16.20	17.7	1
5	16QAM	1	24	16.21	16.14	16.18	16.14		
5	16QAM	12	0	15.21	15.24	15.25	15.15		
5	16QAM	12	7	15.06	15.17	15.08	15.18		
5	16QAM	12	13	15.08	15.13	15.09	15.18	16.7	2
5	16QAM	25	0	15.06	15.22	15.04	15.03		
5	64QAM	1	0	15.35	15.34	15.17	15.19		
5	64QAM	1	12	15.14	15.22	15.23	15.15		
5	64QAM	1	24	15.14	15.15	15.17	15.10	16.7	2
5	64QAM	12	0	14.20	14.24	14.18	14.14		
5	64QAM	12	7	14.21	14.24	14.13	14.12		
5	64QAM	12	13	14.16	14.20	14.12	14.09		
5	64QAM	25	0	13.95	14.07	14.08	13.96	15.7	3



### Band 48 Ant4 EC17

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	17.17	17.37	17.01	17.07	18.4	0
20	QPSK	1	49	17.17	17.33	17.13	17.00		
20	QPSK	1	99	17.17	17.25	17.03	16.93		
20	QPSK	50	0	16.19	16.35	16.03	15.94		
20	QPSK	50	24	16.22	16.32	15.99	16.03	17.4	1
20	QPSK	50	50	16.21	16.19	15.97	15.96		
20	QPSK	100	0	16.21	16.32	16.10	16.03		
20	16QAM	1	0	16.41	16.43	16.18	16.09		
20	16QAM	1	49	16.16	16.30	16.09	16.02	17.4	1
20	16QAM	1	99	16.21	16.27	15.98	16.00		
20	16QAM	50	0	15.16	15.28	15.06	15.15		
20	16QAM	50	24	15.34	15.40	15.08	15.03		
20	16QAM	50	50	15.20	15.26	15.04	15.05	16.4	2
20	16QAM	100	0	15.19	15.35	15.03	15.13		
20	64QAM	1	0	15.22	15.26	15.01	15.04		
20	64QAM	1	49	15.33	15.38	15.00	14.96		
20	64QAM	1	99	15.17	15.28	15.04	14.92	16.4	2
20	64QAM	50	0	14.27	14.33	14.03	14.11		
20	64QAM	50	24	14.23	14.27	14.15	14.11		
20	64QAM	50	50	14.18	14.19	13.90	14.07		
20	64QAM	100	0	14.21	14.36	14.08	14.10	15.4	3
20	256QAM	1	0	12.02	11.97	11.96	12.00		
20	256QAM	1	49	11.89	11.85	11.88	11.90		
20	256QAM	1	99	11.85	11.93	11.95	11.88		
20	256QAM	50	0	11.91	11.96	11.92	12.03	13.4	5
20	256QAM	50	24	11.89	11.93	11.92	11.89		
20	256QAM	50	50	11.90	11.92	11.87	11.86		
20	256QAM	100	0	11.91	11.81	11.87	11.92		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	16.92	17.10	16.96	17.09	18.4	0
15	QPSK	1	37	16.82	17.09	17.10	16.88		
15	QPSK	1	74	16.84	16.96	16.98	16.85		
15	QPSK	36	0	15.90	16.04	15.99	15.86		
15	QPSK	36	20	15.98	16.04	15.86	15.94	17.4	1
15	QPSK	36	39	15.98	15.96	15.93	15.92		
15	QPSK	75	0	15.90	16.05	16.01	15.98		
15	16QAM	1	0	16.16	16.13	16.04	16.04		
15	16QAM	1	37	15.82	15.98	16.01	15.87	17.4	1
15	16QAM	1	74	15.92	15.96	15.85	15.92		
15	16QAM	36	0	14.87	15.05	14.92	15.09		
15	16QAM	36	20	15.00	15.06	15.01	14.89		
15	16QAM	36	39	14.91	14.97	15.01	14.99	16.4	2
15	16QAM	75	0	14.92	15.08	14.96	15.00		
15	64QAM	1	0	14.93	14.95	14.86	14.90		
15	64QAM	1	37	15.01	15.11	14.89	14.90		
15	64QAM	1	74	14.94	14.95	14.91	14.78	16.4	2
15	64QAM	36	0	13.97	14.02	13.97	14.00		
15	64QAM	36	20	13.97	13.93	14.00	14.04		
15	64QAM	36	39	13.84	13.90	13.77	13.93		
15	64QAM	75	0	13.88	14.04	13.95	14.00	15.4	3
15	256QAM	1	0	11.98	11.82	11.91	11.95		
15	256QAM	1	37	11.85	11.77	11.84	11.82		
15	256QAM	1	74	11.73	11.80	11.84	11.75		
15	256QAM	36	0	11.76	11.85	11.87	11.95	13.4	5
15	256QAM	36	20	11.81	11.80	11.81	11.82		
15	256QAM	36	39	11.81	11.81	11.79	11.79		
15	256QAM	75	0	11.83	11.73	11.78	11.79		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	16.83	17.04	16.96	17.07	18.4	0
10	QPSK	1	25	16.86	17.09	17.09	16.94		
10	QPSK	1	49	16.83	16.96	16.95	16.85		
10	QPSK	25	0	15.94	16.02	15.99	15.88		
10	QPSK	25	12	15.89	16.01	15.84	15.89	17.4	1
10	QPSK	25	25	15.86	15.91	15.87	15.90		
10	QPSK	50	0	15.87	16.03	16.06	15.88		
10	16QAM	1	0	16.11	16.09	16.04	16.01		
10	16QAM	1	25	15.83	16.06	16.03	15.95	17.4	1
10	16QAM	1	49	15.90	15.94	15.90	15.89		
10	16QAM	25	0	14.84	14.99	15.03	15.09		
10	16QAM	25	12	15.04	15.10	14.97	14.92		
10	16QAM	25	25	14.90	14.95	14.93	14.91	16.4	2
10	16QAM	50	0	14.89	15.02	14.92	15.07		
10	64QAM	1	0	14.97	14.94	14.94	14.90		
10	64QAM	1	25	15.03	15.05	14.89	14.83		
10	64QAM	1	49	14.87	14.96	14.99	14.85	16.4	2
10	64QAM	25	0	13.94	14.03	13.93	13.98		
10	64QAM	25	12	13.91	13.93	14.08	14.06		
10	64QAM	25	25	13.87	13.86	13.87	13.94		
10	64QAM	50	0	13.96	14.02	13.98	14.03	15.4	3
10	256QAM	1	0	11.89	11.85	11.91	11.91		
10	256QAM	1	25	11.83	11.71	11.76	11.79		
10	256QAM	1	49	11.72	11.89	11.89	11.79		
10	256QAM	25	0	11.83	11.88	11.82	11.89	13.4	5
10	256QAM	25	12	11.76	11.88	11.82	11.80		
10	256QAM	25	25	11.77	11.86	11.83	11.73		
10	256QAM	50	0	11.80	11.73	11.79	11.79		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	16.92	17.13	16.93	17.10	18.4	0
5	QPSK	1	12	16.88	17.06	17.01	16.97		
5	QPSK	1	24	16.93	16.94	16.92	16.84		
5	QPSK	12	0	15.89	16.04	15.90	15.79		
5	QPSK	12	7	15.87	16.00	15.85	15.89	17.4	1
5	QPSK	12	13	15.95	15.85	15.85	15.89		
5	QPSK	25	0	15.92	15.99	16.05	15.91		
5	16QAM	1	0	16.16	16.17	16.06	16.06		
5	16QAM	1	12	15.86	16.04	16.02	15.90	17.4	1
5	16QAM	1	24	15.93	15.96	15.94	15.90		
5	16QAM	12	0	14.82	14.99	14.93	15.09		
5	16QAM	12	7	15.02	15.06	15.00	14.89		
5	16QAM	12	13	14.92	15.02	14.92	14.98	16.4	2
5	16QAM	25	0	14.94	15.10	14.88	15.09		
5	64QAM	1	0	14.92	14.91	14.87	14.98		
5	64QAM	1	12	15.02	15.12	14.94	14.81		
5	64QAM	1	24	14.90	15.04	14.93	14.87	16.4	2
5	64QAM	12	0	14.04	13.98	13.99	14.01		
5	64QAM	12	7	13.94	13.97	14.06	14.03		
5	64QAM	12	13	13.95	13.85	13.80	13.95		
5	64QAM	25	0	13.91	14.01	13.93	13.97	15.4	3
5	256QAM	1	0	11.90	11.84	11.84	11.97		
5	256QAM	1	12	11.78	11.82	11.80	11.81		
5	256QAM	1	24	11.75	11.83	11.87	11.85		
5	256QAM	12	0	11.80	11.86	11.86	11.98	13.4	5
5	256QAM	12	7	11.76	11.81	11.84	11.86		
5	256QAM	12	13	11.80	11.80	11.75	11.82		
5	256QAM	25	0	11.87	11.69	11.78	11.81		



### Band 48 Ant5 EC17

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.24	20.31	20.18	20.16	21.4	0
20	QPSK	1	49	20.21	20.25	20.21	20.16		
20	QPSK	1	99	20.19	20.24	20.09	20.14		
20	QPSK	50	0	19.22	19.34	19.29	19.27		
20	QPSK	50	24	19.20	19.33	19.15	19.06	20.4	1
20	QPSK	50	50	19.14	19.28	19.13	19.05		
20	QPSK	100	0	19.28	19.37	19.26	19.27		
20	16QAM	1	0	19.34	19.44	19.42	19.39		
20	16QAM	1	49	19.24	19.35	19.27	19.19	20.4	1
20	16QAM	1	99	19.25	19.29	19.22	19.11		
20	16QAM	50	0	18.30	18.43	18.32	18.25		
20	16QAM	50	24	18.34	18.41	18.29	18.22		
20	16QAM	50	50	18.38	18.40	18.34	18.15	19.4	2
20	16QAM	100	0	18.47	18.50	18.35	18.22		
20	64QAM	1	0	18.26	18.34	18.24	18.17		
20	64QAM	1	49	18.30	18.30	18.21	18.18		
20	64QAM	1	99	18.11	18.14	18.10	18.02	19.4	2
20	64QAM	50	0	17.38	17.48	17.35	17.24		
20	64QAM	50	24	17.19	17.22	17.17	17.16		
20	64QAM	50	50	17.27	17.42	17.40	17.29		
20	64QAM	100	0	17.51	17.46	17.33	17.36	18.4	3
20	256QAM	1	0	15.49	15.32	15.45	15.41		
20	256QAM	1	49	15.27	15.21	15.31	15.37		
20	256QAM	1	99	15.35	15.24	15.30	15.34		
20	256QAM	50	0	15.41	15.30	15.36	15.36	16.4	5
20	256QAM	50	24	15.26	15.21	15.33	15.32		
20	256QAM	50	50	15.42	15.20	15.29	15.40		
20	256QAM	100	0	15.37	15.26	15.22	15.34		
Channel				55315	55820	56160	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	20.17	20.26	20.12	20.02	21.4	0
15	QPSK	1	37	20.09	20.14	20.14	20.06		
15	QPSK	1	74	20.09	20.13	19.98	20.02		
15	QPSK	36	0	19.07	19.27	19.22	19.20		
15	QPSK	36	20	19.15	19.22	19.02	19.06	20.4	1
15	QPSK	36	39	18.99	19.15	19.10	18.99		
15	QPSK	75	0	19.25	19.29	19.19	19.13		
15	16QAM	1	0	19.28	19.34	19.34	19.27		
15	16QAM	1	37	19.15	19.22	19.18	19.15	20.4	1
15	16QAM	1	74	19.16	19.15	19.16	19.06		
15	16QAM	36	0	18.25	18.39	18.20	18.17		
15	16QAM	36	20	18.20	18.36	18.21	18.12		
15	16QAM	36	39	18.24	18.32	18.20	18.01	19.4	2
15	16QAM	75	0	18.40	18.40	18.20	18.12		
15	64QAM	1	0	18.14	18.25	18.10	18.05		
15	64QAM	1	37	18.25	18.25	18.08	18.06		
15	64QAM	1	74	18.29	17.98	18.02	18.03	19.4	2
15	64QAM	36	0	17.24	17.40	17.22	17.18		
15	64QAM	36	20	17.13	17.13	17.13	17.05		
15	64QAM	36	39	17.17	17.31	17.28	17.22		
15	64QAM	75	0	17.44	17.34	17.30	17.22	18.4	3
15	256QAM	1	0	15.45	15.37	15.39	15.40		
15	256QAM	1	37	15.31	15.14	15.33	15.39		
15	256QAM	1	74	15.36	15.19	15.29	15.38		
15	256QAM	36	0	15.41	15.34	15.36	15.34	16.4	5
15	256QAM	36	20	15.31	15.17	15.35	15.33		
15	256QAM	36	39	15.37	15.18	15.25	15.41		
15	256QAM	75	0	15.32	15.29	15.22	15.36		
Channel				55300	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	20.13	20.24	20.08	20.07	21.4	0
10	QPSK	1	25	20.11	20.15	20.11	20.10		
10	QPSK	1	49	20.08	20.11	20.04	20.06		
10	QPSK	25	0	19.18	19.27	19.21	19.22		
10	QPSK	25	12	19.07	19.22	19.03	19.03	20.4	1
10	QPSK	25	25	19.03	19.22	19.04	18.99		
10	QPSK	50	0	19.23	19.24	19.21	19.24		
10	16QAM	1	0	19.28	19.32	19.33	19.31		
10	16QAM	1	25	19.18	19.25	19.15	19.10	20.4	1
10	16QAM	1	49	19.22	19.20	19.10	18.98		
10	16QAM	25	0	18.23	18.32	18.18	18.13		
10	16QAM	25	12	18.28	18.35	18.17	18.12		
10	16QAM	25	25	18.34	18.33	18.25	18.11	19.4	2
10	16QAM	50	0	18.35	18.43	18.23	18.07		
10	64QAM	1	0	18.22	18.29	18.21	18.03		
10	64QAM	1	25	18.27	18.26	18.13	18.09		
10	64QAM	1	49	18.06	18.04	18.02	18.00	19.4	2
10	64QAM	25	0	17.31	17.37	17.20	17.16		
10	64QAM	25	12	17.15	17.11	17.08	17.06		
10	64QAM	25	25	17.23	17.39	17.28	17.14		
10	64QAM	50	0	17.41	17.40	17.25	17.24	18.4	3
10	256QAM	1	0	15.45	15.34	15.40	15.38		
10	256QAM	1	25	15.32	15.14	15.30	15.32		
10	256QAM	1	49	15.33	15.22	15.25	15.33		
10	256QAM	25	0	15.41	15.35	15.28	15.32	16.4	5
10	256QAM	25	12	15.30	15.20	15.31	15.34		
10	256QAM	25	25	15.42	15.23	15.30	15.46		
10	256QAM	50	0	15.33	15.21	15.28	15.34		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	20.14	20.23	20.04	20.04	21.4	0
5	QPSK	1	12	20.18	20.20	20.18	20.08		
5	QPSK	1	24	20.08	20.17	20.01	20.07		
5	QPSK	12	0	19.10	19.27	19.24	19.15		
5	QPSK	12	7	19.16	19.21	19.10	18.99	20.4	1
5	QPSK	12	13	19.03	19.16	19.00	18.99		
5	QPSK	25	0	19.18	19.24	19.15	19.20		
5	16QAM	1	0	19.31	19.39	19.28	19.27		
5	16QAM	1	12	19.12	19.24	19.12	19.08	20.4	1
5	16QAM	1	24	19.15	19.18	19.15	19.08		
5	16QAM	12	0	18.24	18.29	18.18	18.15		
5	16QAM	12	7	18.20	18.32	18.16	18.09		
5	16QAM	12	13	18.30	18.35	18.28	18.11	19.4	2
5	16QAM	25	0	18.43	18.37	18.23	18.15		
5	64QAM	1	0	18.20	18.21	18.15	18.10		
5	64QAM	1	12	18.20	18.21	18.14	18.07		
5	64QAM	1	24	18.03	18.09	18.03	18.07	19.4	2
5	64QAM	12	0	17.34	17.42	17.23	17.13		
5	64QAM	12	7	17.10	17.13	17.11	17.05		
5	64QAM	12	13	17.16	17.34	17.29	17.24		
5	64QAM	25	0	17.48	17.31	17.27	17.24	18.4	3
5	256QAM	1	0	15.48	15.31	15.39	15.39		
5	256QAM	1	12	15.33	15.16	15.32	15.36		
5	256QAM	1	24	15.36	15.23	15.28	15.41		
5	256QAM	12	0	15.40	15.37	15.32	15.36	16.4	5
5	256QAM	12	7	15.25	15.17	15.33	15.38		
5	256QAM	12	13	15.44	15.24	15.30	15.38		
5	256QAM	25	0	15.36	15.26	15.28	15.31		



### Band 48 Ant8 EC17

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	10.98	11.23	11.19	11.16	12.2	0
20	QPSK	1	49	11.12	11.16	11.13	11.17		
20	QPSK	1	99	11.06	11.19	11.05	10.99		
20	QPSK	50	0	10.28	10.36	10.26	10.26		
20	QPSK	50	24	10.16	10.28	10.22	10.25	11.2	1
20	QPSK	50	50	10.08	10.19	10.13	10.12		
20	QPSK	100	0	10.05	10.19	10.06	10.07		
20	16QAM	1	0	10.32	10.33	10.34	10.39		
20	16QAM	1	49	10.20	10.25	10.26	10.24	11.2	1
20	16QAM	1	99	10.13	10.27	10.13	10.19		
20	16QAM	50	0	9.14	9.18	9.04	9.05		
20	16QAM	50	24	9.01	9.17	9.05	9.07		
20	16QAM	50	50	9.14	9.21	9.01	9.14	10.2	2
20	16QAM	100	0	9.20	9.20	9.11	9.16		
20	64QAM	1	0	9.12	9.34	9.21	9.23		
20	64QAM	1	49	9.28	9.36	9.17	9.24		
20	64QAM	1	99	9.14	9.25	9.11	9.19	10.2	2
20	64QAM	50	0	8.18	8.34	8.12	8.17		
20	64QAM	50	24	8.21	8.20	8.15	8.17		
20	64QAM	50	50	8.24	8.30	8.22	8.20		
20	64QAM	100	0	7.97	8.04	7.98	7.95	9.2	3
20	256QAM	1	0	6.07	5.94	6.03	6.04		
20	256QAM	1	49	5.86	5.83	5.81	5.99		
20	256QAM	1	99	6.02	5.91	5.91	6.08		
20	256QAM	50	0	6.09	5.86	6.01	5.95	7.2	5
20	256QAM	50	24	6.01	5.87	5.82	5.97		
20	256QAM	50	50	6.00	5.83	5.91	6.09		
20	256QAM	100	0	5.86	5.87	5.90	5.89		
Channel				55315	55820	56180	56665		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	10.94	11.17	11.06	11.03	12.2	0
15	QPSK	1	37	11.05	11.11	11.03	11.13		
15	QPSK	1	74	10.94	11.07	10.93	10.95		
15	QPSK	36	0	10.15	10.30	10.17	10.17		
15	QPSK	36	20	10.09	10.14	10.18	10.15	11.2	1
15	QPSK	36	39	9.96	10.09	10.02	10.06		
15	QPSK	75	0	9.92	10.09	9.96	9.95		
15	16QAM	1	0	10.20	10.26	10.30	10.31		
15	16QAM	1	37	10.06	10.20	10.21	10.18	11.2	1
15	16QAM	1	74	9.99	10.23	10.07	10.15		
15	16QAM	36	0	9.01	9.09	8.94	8.94		
15	16QAM	36	20	8.93	9.04	8.97	9.00		
15	16QAM	36	39	9.01	9.16	8.91	9.11	10.2	2
15	16QAM	75	0	9.15	9.09	9.07	9.10		
15	64QAM	1	0	9.00	9.30	9.09	9.08		
15	64QAM	1	37	9.20	9.27	9.13	9.18		
15	64QAM	1	74	9.04	9.21	8.98	9.12	10.2	2
15	64QAM	36	0	8.04	8.27	8.05	8.10		
15	64QAM	36	20	8.10	8.11	8.01	8.09		
15	64QAM	36	39	8.16	8.20	8.18	8.13		
15	64QAM	75	0	7.88	7.89	7.83	7.86	9.2	3
15	256QAM	1	0	5.99	5.84	5.91	5.99		
15	256QAM	1	37	5.73	5.76	5.75	5.85		
15	256QAM	1	74	5.89	5.84	5.77	5.96		
15	256QAM	36	0	5.95	5.80	5.94	5.92	7.2	5
15	256QAM	36	20	5.88	5.77	5.71	5.91		
15	256QAM	36	39	5.92	5.79	5.80	6.02		
15	256QAM	75	0	5.82	5.79	5.79	5.76		
Channel				55290	55815	56185	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695		
10	QPSK	1	0	10.91	11.19	11.15	11.12	12.2	0
10	QPSK	1	25	10.98	11.06	11.06	11.11		
10	QPSK	1	49	11.03	11.12	10.94	10.84		
10	QPSK	25	0	10.24	10.23	10.21	10.20		
10	QPSK	25	12	10.02	10.24	10.14	10.15	11.2	1
10	QPSK	25	25	9.94	10.11	10.01	10.07		
10	QPSK	50	0	9.96	10.10	9.98	9.95		
10	16QAM	1	0	10.17	10.28	10.25	10.26		
10	16QAM	1	25	10.08	10.16	10.16	10.13	11.2	1
10	16QAM	1	49	10.01	10.14	10.08	10.13		
10	16QAM	25	0	9.01	9.07	8.91	9.01		
10	16QAM	25	12	8.93	9.05	9.01	9.01		
10	16QAM	25	25	9.01	9.07	8.88	9.08	10.2	2
10	16QAM	50	0	9.16	9.13	8.98	9.05		
10	64QAM	1	0	9.08	9.20	9.15	9.16		
10	64QAM	1	25	9.16	9.30	9.10	9.19		
10	64QAM	1	49	9.00	9.16	9.00	9.15	10.2	2
10	64QAM	25	0	8.08	8.27	8.03	8.10		
10	64QAM	25	12	8.10	8.15	8.08	8.12		
10	64QAM	25	25	8.19	8.23	8.16	8.16		
10	64QAM	50	0	7.84	7.92	7.90	7.81	9.2	3
10	256QAM	1	0	5.95	5.85	5.89	5.96		
10	256QAM	1	25	5.81	5.69	5.75	5.90		
10	256QAM	1	49	5.90	5.83	5.84	6.02		
10	256QAM	25	0	5.98	5.79	5.94	5.82	7.2	5
10	256QAM	25	12	5.91	5.74	5.71	5.82		
10	256QAM	25	25	5.92	5.80	5.81	5.99		
10	256QAM	50	0	5.82	5.75	5.80	5.82		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	10.90	11.17	11.15	11.10	12.2	0
5	QPSK	1	12	11.06	11.06	11.08	11.04		
5	QPSK	1	24	10.91	11.10	10.91	10.86		
5	QPSK	12	0	10.14	10.29	10.13	10.17		
5	QPSK	12	7	10.09	10.20	10.14	10.20	11.2	1
5	QPSK	12	13	10.05	10.05	10.03	10.01		
5	QPSK	25	0	9.94	10.05	10.02	10.00		
5	16QAM	1	0	10.23	10.20	10.19	10.31		
5	16QAM	1	12	10.17	10.11	10.20	10.14	11.2	1
5	16QAM	1	24	10.02	10.21	10.09	10.09		
5	16QAM	12	0	9.00	9.05	8.91	8.90		
5	16QAM	12	7	8.96	9.04	8.92	8.93		
5	16QAM	12	13	9.03	9.12	8.91	8.99	10.2	2
5	16QAM	25	0	9.14	9.15	9.00	9.08		
5	64QAM	1	0	9.08	9.20	9.14	9.15		
5	64QAM	1	12	9.15	9.27	9.06	9.17		
5	64QAM	1	24	9.09	9.17	8.98	9.05	10.2	2
5	64QAM	12	0	8.11	8.30	8.01	8.11		
5	64QAM	12	7	8.10	8.09	8.12	8.02		
5	64QAM	12	13	8.12	8.24	8.08	8.07		
5	64QAM	25	0	7.87	7.99	7.91	7.85	9.2	3
5	256QAM	1	0	5.95	5.90	5.97	5.93		
5	256QAM	1	12	5.78	5.78	5.68	5.93		
5	256QAM	1	24	5.88	5.78	5.76	5.95		
5	256QAM	12	0	5.95	5.71	5.98	5.82	7.2	5
5	256QAM	12	7	5.98	5.74	5.68	5.92		
5	256QAM	12	13	5.87	5.79	5.83	6.03		
5	256QAM	25	0	5.80	5.82	5.81	5.82		



## Uplink CA Power

Ant0 Full Power

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	22.30	24.00
132322	132520	QPSK	1	99	1	0	2	0	22.43	24.00
132572	132374	QPSK	1	0	1	99	2	0	22.26	24.00

Ant0 Full Power

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	22.81	24.00
20525	20597	QPSK	1	49	1	0	2	0	22.97	24.00
20600	20528	QPSK	1	0	1	24	2	0	22.84	24.00

Ant0 Full Power

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	22.12	24.00
132322	132415	QPSK	1	74	1	0	2	0	22.49	24.00
132597	132504	QPSK	1	0	1	24	2	0	22.23	24.00

Ant3 Full Power

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	22.41	24.00
55830	56028	QPSK	1	99	1	0	2	0	22.56	24.00
56150	56348	QPSK	1	99	1	0	2	0	22.28	24.00
56640	56442	QPSK	1	0	1	99	2	0	22.38	24.00

Ant5 Full Power

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	21.77	23.30
55830	56028	QPSK	1	99	1	0	2	0	21.82	23.30
56150	56348	QPSK	1	99	1	0	2	0	21.75	23.30
56640	56442	QPSK	1	0	1	99	2	0	21.59	23.30

Ant3 Full Power

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	22.37	24.00
55820	55913	QPSK	1	74	1	0	2	0	22.44	24.00
56150	56348	QPSK	1	74	1	0	2	0	22.11	24.00
56665	56572	QPSK	1	0	1	24	2	0	22.28	24.00

Ant5 Full Power

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	21.57	23.30
55820	55913	QPSK	1	74	1	0	2	0	21.72	23.30
56150	56348	QPSK	1	74	1	0	2	0	21.63	23.30
56665	56572	QPSK	1	0	1	24	2	0	21.61	23.30

Ant1 Full Power

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	22.11	24.00
132322	132520	QPSK	1	99	1	0	2	0	22.13	24.00
132572	132374	QPSK	1	0	1	99	2	0	22.09	24.00

Ant1 Full Power

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	22.41	24.00
20525	20597	QPSK	1	49	1	0	2	0	22.66	24.00
20600	20528	QPSK	1	0	1	24	2	0	22.46	24.00

Ant1 Full Power

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	22.03	24.00
132322	132415	QPSK	1	74	1	0	2	0	22.09	24.00
132597	132504	QPSK	1	0	1	24	2	0	22.05	24.00

Ant4 Full Power

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	22.33	24.00
55830	56028	QPSK	1	99	1	0	2	0	22.45	24.00
56150	56348	QPSK	1	99	1	0	2	0	22.36	24.00
56640	56442	QPSK	1	0	1	99	2	0	22.49	24.00

Ant8 Full Power

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	21.33	23.10
55830	56028	QPSK	1	99	1	0	2	0	21.62	23.10
56150	56348	QPSK	1	99	1	0	2	0	21.54	23.10
56640	56442	QPSK	1	0	1	99	2	0	21.61	23.10

Ant4 Full Power

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	22.28	24.00
55820	55913	QPSK	1	74	1	0	2	0	22.34	24.00
56150	56348	QPSK	1	74	1	0	2	0	22.27	24.00
56665	56572	QPSK	1	0	1	24	2	0	22.32	24.00

Ant8 Full Power

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	21.24	23.10
55820	55913	QPSK	1	74	1	0	2	0	21.52	23.10
56150	56348	QPSK	1	74	1	0	2	0	21.48	23.10
56665	56572	QPSK	1	0	1	24	2	0	21.56	23.10



Ant1 Receiver on

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	20.72	21.90
20525	20597	QPSK	1	49	1	0	2	0	20.78	21.90
20600	20528	QPSK	1	0	1	24	2	0	20.77	21.90

Ant1 Hotspot

CA_5B										
Combination 10MHz+5MHz (60RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	22.03	23.20
20525	20597	QPSK	1	49	1	0	2	0	22.08	23.20
20600	20528	QPSK	1	0	1	24	2	0	22.01	23.20

Ant1 Sensor On

CA_5B										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20522	QPSK	1	49	1	0	2	0	22.36	23.60
20525	20597	QPSK	1	49	1	0	2	0	22.61	23.60
20600	20528	QPSK	1	0	1	24	2	0	22.44	23.60

Ant0 Sensor On

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	17.23	18.50
132322	132520	QPSK	1	99	1	0	2	0	17.65	18.50
132572	132374	QPSK	1	0	1	99	2	0	17.35	18.50

Ant0 Hotspot

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	16.58	17.30
132322	132520	QPSK	1	99	1	0	2	0	16.76	17.30
132572	132374	QPSK	1	0	1	99	2	0	16.58	17.30

Ant0 Handheld

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	16.61	20.50
132322	132520	QPSK	1	99	1	0	2	0	16.90	20.50
132572	132374	QPSK	1	0	1	99	2	0	16.70	20.50

Ant0 Sensor On

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	17.39	18.50
132322	132415	QPSK	1	74	1	0	2	0	17.49	18.50
132597	132504	QPSK	1	0	1	24	2	0	17.17	18.50

Ant0 Hotspot

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	16.46	17.30
132322	132415	QPSK	1	74	1	0	2	0	16.70	17.30
132597	132504	QPSK	1	0	1	24	2	0	16.59	17.30

Ant0 Handheld

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	18.49	20.50
132322	132415	QPSK	1	74	1	0	2	0	18.48	20.50
132597	132504	QPSK	1	0	1	24	2	0	18.41	20.50

Ant1 Receiver on

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	16.16	17.50
132322	132520	QPSK	1	99	1	0	2	0	16.34	17.50
132572	132374	QPSK	1	0	1	99	2	0	16.25	17.50

Ant1 Sensor onHotspot

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	16.17	17.70
132322	132520	QPSK	1	99	1	0	2	0	16.32	17.70
132572	132374	QPSK	1	0	1	99	2	0	16.31	17.70

Ant1 Handheld

CA_66C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	2	0	17.98	19.90
132322	132520	QPSK	1	99	1	0	2	0	18.06	19.90
132572	132374	QPSK	1	0	1	99	2	0	18.05	19.90

Ant1 Receiver onSensor onHotspot

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	16.21	17.50
132322	132415	QPSK	1	74	1	0	2	0	16.29	17.50
132597	132504	QPSK	1	0	1	24	2	0	16.22	17.50

Ant1 Handheld

CA_66B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	2	0	17.99	19.90
132322	132415	QPSK	1	74	1	0	2	0	18.07	19.90
132597	132504	QPSK	1	0	1	24	2	0	18.06	19.90

Ant3 Receiver on

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	18.74	19.90
55830	56028	QPSK	1	99	1	0	2	0	18.80	19.90
56150	56348	QPSK	1	99	1	0	2	0	18.58	19.90
56640	56442	QPSK	1	0	1	99	2	0	18.75	19.90

Ant3 Sensor onHotspot

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	17.19	18.70
55830	56028	QPSK	1	99	1	0	2	0	17.45	18.70
56150	56348	QPSK	1	99	1	0	2	0	17.10	18.70
56640	56442	QPSK	1	0	1	99	2	0	17.17	18.70

Ant3 Handheld

CA_48C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	2	0	19.78	21.00
55830	56028	QPSK	1	99	1	0	2	0	19.71	21.00
56150	56348	QPSK	1	99	1	0	2	0	19.43	21.00
56640	56442	QPSK	1	0	1	99	2	0	19.68	21.00

Ant3 Receiver on

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	16.79	18.40
55830	55923	QPSK	1	74	1	0	2	0	16.78	19.90
56150	56348	QPSK	1	74	1	0	2	0	16.47	19.90
56665	56572	QPSK	1	0	1	24	2	0	16.67	19.90

Ant3 Sensor onHotspot

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	17.18	18.70
55830	55923	QPSK	1	74	1	0	2	0	17.27	18.70
56150	56348	QPSK	1	74	1	0	2	0	17.06	18.70
56665	56572	QPSK	1	0	1	24	2	0	17.16	18.70

Ant3 Handheld

CA_48B										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55315	55408	QPSK	1	74	1	0	2	0	19.64	21.00
55830	55923	QPSK	1	74	1	0	2	0	19.66	21.00
56150	56348	QPSK	1	74	1	0	2	0	19.34	







3CA DL

3CA List	PCC										SCC1										Power	
	LTE					DL Antenna					LTE					DL Antenna					1/13.15	Without CA
	Band	AW	BW	UL	UL	Mod	ULF	UL	DL	Configuration	Band	BW	DL	DL	DL	Configuration	Tx Power	TA Power				
CA_2A-2A-4A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	5M	2132.5	2175	4x4MIMO	22.45	22.62	
	Band 4	A40	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.35	22.54	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	5M	2132.5	2175	4x4MIMO	22.16	22.32	
	Band 4	A41	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.04	22.19	
CA_2A-2A-5A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.52	22.62	
	Band 5	A40	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	20M	2132.5	2175	4x4MIMO	22.04	22.12	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.25	22.32	
	Band 5	A41	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	5M	2132.5	2175	4x4MIMO	22.45	22.55	
CA_2A-2A-13A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.45	22.62	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.24	22.32	
	Band 13	A41	10M	752	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.27	22.32	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.23	22.32	
CA_2A-2A-66A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.24	22.32	
	Band 66	A40	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.46	22.57	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.15	22.32	
	Band 66	A41	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.12	22.23	
CA_2A-4A-4A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	1732.5	20175	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.45	22.62	
	Band 4	A40	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.38	22.54	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	1732.5	20175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.51	22.62	
	Band 4	A40	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	20M	1732.5	20175	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.41	22.54	
CA_2A-4A-5A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.40	22.45	
	Band 4	A40	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.42	22.54	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.17	22.32	
	Band 5	A41	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 2	20M	1732.5	20175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.05	22.19	
CA_2A-4A-13A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.28	22.62	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.24	22.32	
	Band 13	A41	10M	752	23230	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 4	5M	2132.5	2175	4x4MIMO	22.27	22.32	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.21	22.32	
CA_2A-5A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.54	22.62	
	Band 5	A40	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.32	22.42	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.40	22.45	
	Band 5	A41	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.45	22.55	
CA_2A-5A-48A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.45	22.62	
	Band 5	A40	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.40	22.45	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	22.12	22.32	
	Band 5	A41	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.44	22.55	
CA_2A-5A-66A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.24	22.32	
	Band 66	A40	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.28	22.32	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.24	22.32	
	Band 66	A41	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.28	22.32	
CA_2A-7A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2654.8	3298	4x4MIMO	22.41	22.62	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2654.8	3298	4x4MIMO	22.13	22.32	
	Band 7	A40	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.27	22.47	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.49	22.62	
CA_2A-7A-7A	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.17	22.32	
	Band 7	A40	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.41	22.45	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.48	22.62	
	Band 13	A40	10M	752	23230	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.81	22.85	
CA_2A-7A-13A	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	Band 2	20M	2655	3100	4x4MIMO	22.22	22.32	
	Band 13	A41	10M	752	23230	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.70	22.82	
	Band 2	A40	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 13	10M	751	5230	4x4MIMO	22.28	22.47	
	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	22.53	22.62	
CA_2A-7A-66A	Band 2	A40	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.41	22.45	
	Band 66	A40	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.12	22.32	
	Band 2	A41	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.16	22.23	
	Band 7	A40	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.34	22.47	
CA_2A-13A																						















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

n2 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 374000	Mid Ch. / Freq. 376000	High Ch. / Freq. 378000			
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	23.68	23.83	23.85	24.0	0.0	
40	PB2 BPSK	1	108	23.70	23.78	23.74			
40	PB2 BPSK	1	214	23.64	23.74	23.63			
40	PB2 BPSK	108	0	23.31	23.44	23.30	23.5	0.5	
40	PB2 BPSK	108	54	23.74	23.86	23.73	24.0	0.0	
40	PB2 BPSK	108	108	23.05	23.19	23.05	23.5	0.5	
40	PB2 BPSK	216	0	23.12	23.23	23.17			
40	PB2 BPSK	216	108	23.83	23.92	23.69			
40	QPSK	1	1	23.74	23.86	23.78	24.0	0.0	
40	QPSK	1	108	23.70	23.78	23.67			
40	QPSK	1	214	23.70	23.78	23.67			
40	QPSK	108	0	22.75	22.87	22.83	23.0	1.0	
40	QPSK	108	54	23.76	23.84	23.75	23.0	0.0	
40	QPSK	108	108	22.58	22.73	22.67	23.0	1.0	
40	QPSK	216	0	22.74	22.83	22.74			
40	QPSK	216	108	22.46	22.64	22.37			
40	16QAM	1	1	21.43	21.46	21.55	23.0	1.0	
40	64QAM	1	1	21.43	21.05	21.40	21.5	2.5	
40	256QAM	1	1	18.41	18.43	18.43	18.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.78	23.80	23.83	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.85	23.77	23.90	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.75	23.81	23.76	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.72	23.84	23.71	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.77	23.87	23.82	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.70	23.76	23.68	24.0	0.0	

n5 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 166800	Mid Ch. / Freq. 167300	High Ch. / Freq. 167800			
Channel									
Frequency (MHz)									
20	PB2 BPSK	1	1	22.72	22.82	22.78	24.0	0.0	
20	PB2 BPSK	1	83	22.78	22.92	22.84			
20	PB2 BPSK	1	104	22.78	22.86	22.80			
20	PB2 BPSK	50	0	22.20	22.25	22.16	23.5	0.5	
20	PB2 BPSK	50	28	22.72	22.83	22.78	24.0	0.0	
20	PB2 BPSK	50	56	22.25	22.44	22.40	23.5	0.5	
20	PB2 BPSK	100	0	22.21	22.29	22.24			
20	PB2 BPSK	100	56	22.75	22.81	22.84			
20	QPSK	1	1	22.79	22.81	22.84	24.0	0.0	
20	QPSK	1	83	22.92	22.86	22.89			
20	QPSK	1	104	22.88	22.81	22.73			
20	QPSK	50	0	21.79	21.87	21.73	23.0	1.0	
20	QPSK	50	28	22.70	22.79	22.71	24.0	0.0	
20	QPSK	50	56	21.82	21.90	21.77	23.0	1.0	
20	QPSK	100	0	21.65	21.77	21.61			
20	QPSK	100	56	21.43	21.46	21.55			
20	16QAM	1	1	21.43	21.46	21.55	23.0	1.0	
20	64QAM	1	1	18.99	20.01	20.02	21.5	2.5	
20	256QAM	1	1	16.86	18.87	18.83	18.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.64	22.77	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.73	22.85	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.80	22.75	24.0	0.0	

n66 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 346000	Mid Ch. / Freq. 348000	High Ch. / Freq. 350000			
Channel									
Frequency (MHz)									
40	PB2 BPSK	1	1	23.40	23.69	23.48	24.5	0.0	
40	PB2 BPSK	1	108	23.48	23.58	23.43			
40	PB2 BPSK	1	214	23.69	23.64	23.56			
40	PB2 BPSK	108	0	22.86	23.08	23.01	24.0	0.5	
40	PB2 BPSK	108	54	23.40	23.52	23.38	24.5	0.0	
40	PB2 BPSK	108	108	22.91	23.03	22.91	24.0	0.5	
40	PB2 BPSK	216	0	22.84	22.98	22.88			
40	PB2 BPSK	216	108	23.45	23.73	23.53			
40	QPSK	1	1	23.58	23.62	23.48	24.5	0.0	
40	QPSK	1	108	23.50	23.60	23.55			
40	QPSK	1	214	23.50	23.60	23.55			
40	QPSK	108	0	22.89	22.66	22.51	23.5	1.0	
40	QPSK	108	54	23.39	23.53	23.48	24.5	0.0	
40	QPSK	108	108	22.45	22.50	22.44	23.5	1.0	
40	QPSK	216	0	22.49	22.54	22.53			
40	QPSK	216	108	22.14	22.50	22.37			
40	64QAM	1	1	20.92	21.18	21.06	22.0	2.5	
40	256QAM	1	1	18.61	19.74	19.63	20.0	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.40	23.68	23.40	24.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.35	23.58	23.49	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.37	23.63	23.37	24.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.32	23.61	23.41	24.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.38	23.67	23.48	24.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.40	23.59	23.39	24.5	0.0	



n2 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	23.59	23.52	23.38			
40	PI2 BPSK	1	108	23.52	23.57	23.44	24.0	0.0	
40	PI2 BPSK	1	214	23.38	23.44	23.34			
40	PI2 BPSK	108	0	22.99	23.08	22.99	23.5	0.5	
40	PI2 BPSK	108	54	23.39	23.50	23.35	24.0	0.0	
40	PI2 BPSK	108	108	22.89	22.94	22.83	23.5	0.5	
40	PI2 BPSK	216	0	23.00	23.07	22.99			
40	QPSK	1	1	23.60	23.63	23.41			
40	QPSK	1	108	23.53	23.58	23.50	24.0	0.0	
40	QPSK	1	214	23.37	23.46	23.33			
40	QPSK	108	0	22.44	22.51	22.44	23.0	1.0	
40	QPSK	108	54	23.48	23.54	23.45	24.0	0.0	
40	QPSK	108	108	22.38	22.40	22.33	23.0	1.0	
40	QPSK	216	0	22.38	22.54	22.50			
40	16QAM	1	1	22.32	22.21	22.12	23.0	1.0	
40	64QAM	1	1	21.23	21.22	21.14	21.5	2.5	
40	256QAM	1	1	19.27	19.31	19.14	19.5	4.5	
Channel									
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	23.01	22.20	22.17	24.0	0.0	
Channel									
Frequency (MHz)				372500	376000	379500			
25	QPSK	1	1	182.5	180	187.5	24.0	0.0	
Channel									
Frequency (MHz)				372000	376000	380000			
20	QPSK	1	1	1860	1860	1900			
Channel									
Frequency (MHz)				371500	376000	380500			
15	QPSK	1	1	23.20	23.30	23.37	24.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	1855	1860	1905			
Channel									
Frequency (MHz)				370500	376000	381500			
5	QPSK	1	1	1852.5	1880	1907.5			
Channel									
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	23.21	23.17	23.35	24.0	0.0	

n5 Ant1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				165800	167300	167900			
20	PI2 BPSK	1	1	22.51	22.66	22.54			
20	PI2 BPSK	1	50	22.56	22.61	22.47	24.0	0.0	
20	PI2 BPSK	1	104	22.03	22.74	22.59			
20	PI2 BPSK	50	0	22.07	22.19	22.09	23.5	0.5	
20	PI2 BPSK	50	28	22.80	22.66	22.58	24.0	0.0	
20	PI2 BPSK	50	56	22.07	22.21	22.16	23.5	0.5	
20	PI2 BPSK	100	0	22.01	22.14	22.07			
20	QPSK	1	1	22.53	22.79	22.63			
20	QPSK	1	53	22.68	22.65	22.52	24.0	0.0	
20	QPSK	1	104	22.64	22.72	22.65			
20	QPSK	50	0	21.38	21.52	21.46	23.0	1.0	
20	QPSK	50	28	22.48	22.62	22.47	24.0	0.0	
20	QPSK	50	56	21.58	21.67	21.52	23.0	1.0	
20	QPSK	100	0	21.49	21.63	21.58			
20	16QAM	1	1	21.21	21.29	21.25	23.0	1.0	
20	64QAM	1	1	19.79	19.88	19.83	21.5	2.5	
20	256QAM	1	1	18.70	18.88	18.71	19.5	4.5	
Channel									
Frequency (MHz)				165300	167300	168300			
15	QPSK	1	1	23.59	22.63	23.49	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
10	QPSK	1	1	23.45	22.55	22.54	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300			
5	QPSK	1	1	23.48	22.58	22.44	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									
Frequency (MHz)				346000	349000	353000			
40	PI2 BPSK	1	1	22.42	22.80	22.49			
40	PI2 BPSK	1	108	22.25	22.41	22.30	24.0	0.0	
40	PI2 BPSK	1	214	22.74	22.80	22.67			
40	PI2 BPSK	108	0	22.31	22.38	22.32	23.5	0.5	
40	PI2 BPSK	108	54	22.58	22.70	22.63	24.0	0.0	
40	PI2 BPSK	108	108	22.22	22.31	22.25	23.5	0.5	
40	PI2 BPSK	216	0	22.13	22.28	22.14			
40	QPSK	1	1	22.49	22.52	22.62			
40	QPSK	1	108	22.81	22.73	22.68	24.0	0.0	
40	QPSK	1	214	22.54	22.68	22.51			
40	QPSK	108	0	21.73	21.78	21.84	23.0	1.0	
40	QPSK	108	54	22.68	22.79	22.66	24.0	0.0	
40	QPSK	108	108	21.77	21.85	21.75	23.0	1.0	
40	QPSK	216	0	21.68	21.77	21.74			
40	16QAM	1	1	21.23	21.35	21.32	23.0	1.0	
40	64QAM	1	1	19.93	20.16	19.94	21.5	2.5	
40	256QAM	1	1	18.61	18.46	18.43	19.5	4.5	
Channel									
Frequency (MHz)				345000	349000	353000			
30	QPSK	1	1	22.34	22.72	22.53	24.0	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	172.5	1745	1767.5	24.0	0.0	
Channel									
Frequency (MHz)				344000	349000	349000			
20	QPSK	1	1	1720	1745	1770			
Channel									
Frequency (MHz)				343500	349000	349500			
15	QPSK	1	1	22.42	22.75	22.56	24.0	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
10	QPSK	1	1	1715	1745	1775			
Channel									
Frequency (MHz)				342500	349000	355500			
5	QPSK	1	1	1712.5	1745	1772.5			
Channel									
Frequency (MHz)				1712.5	1745	1772.5			
5	QPSK	1	1	22.42	22.73	22.58	24.0	0.0	



n48 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	22.88	22.92	22.84			
40	PI/2 BPSK	1	53	22.89	22.90	22.73	24.0	0.0	
40	PI/2 BPSK	1	104	22.87	22.86	22.59			
40	PI/2 BPSK	50	0	22.26	22.41	22.29	23.5	0.5	
40	PI/2 BPSK	50	26	22.74	22.87	22.83	24.0	0.0	
40	PI/2 BPSK	50	56	22.95	22.17	22.95	23.5	0.5	
40	PI/2 BPSK	100	0	22.25	22.37	22.25			
40	QPSK	1	1	22.93	22.96	22.88			
40	QPSK	1	53	22.89	22.77	22.85	24.0	0.0	
40	QPSK	1	104	22.82	22.88	22.55			
40	QPSK	50	0	21.81	21.96	21.89	23.0	1.0	
40	QPSK	50	26	22.73	22.84	22.79	24.0	0.0	
40	QPSK	50	56	21.53	21.68	21.61	23.0	1.0	
40	QPSK	100	0	21.76	21.63	21.68	23.0	1.0	
40	16QAM	1	1	21.80	21.65	21.55	23.0	1.0	
40	16QAM	1	1	20.17	20.27	20.11	21.5	2.5	
40	256QAM	1	1	18.81	18.82	18.74	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.85	22.89	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.83	22.83	22.75	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.85	22.86	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.86	22.76	24.0	0.0	

Par270 n77_FCC PC3 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.96	22.92	22.87			
100	PI/2 BPSK	1	137	22.89	23.00	22.93	24.0	0.0	
100	PI/2 BPSK	1	271	22.88	22.84	22.80			
100	PI/2 BPSK	135	0	22.83	23.06	22.91	24.0	0.0	
100	PI/2 BPSK	135	69	22.93	23.08	22.95	24.0	0.0	
100	PI/2 BPSK	135	138	22.88	22.99	22.91	24.0	0.0	
100	PI/2 BPSK	270	0	22.86	23.01	22.96			
100	QPSK	1	1	23.05	23.12	22.82			
100	QPSK	1	137	22.96	23.05	22.94	24.0	0.0	
100	QPSK	1	271	22.83	22.81	22.84			
100	QPSK	135	0	22.88	23.08	23.03	24.0	0.0	
100	QPSK	135	69	23.01	23.10	23.05	24.0	0.0	
100	QPSK	135	138	22.81	23.04	22.98	24.0	0.0	
100	QPSK	270	0	22.92	23.07	23.01			
100	16QAM	1	1	22.82	22.77	22.67	24.0	0.0	
100	16QAM	1	1	22.90	22.82	22.71	24.0	0.0	
100	256QAM	1	1	21.87	21.88	21.70	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.97	23.05	22.75	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.96	22.98	22.76	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.93	23.00	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.97	22.97	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.01	23.08	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.94	23.05	22.74	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.95	23.07	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.00	23.06	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.91	23.03	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.91	23.02	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.91	23.06	22.68	24.0	0.0	

Par270 n77_FCC PC2 Ant3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.84	25.86	25.72			
100	PI/2 BPSK	1	137	25.90	26.02	25.78	27.0	0.0	
100	PI/2 BPSK	1	271	25.81	25.83	25.69			
100	PI/2 BPSK	135	0	25.45	25.57	25.33	26.5	0.5	
100	PI/2 BPSK	135	69	25.88	25.88	25.74	27.0	0.0	
100	PI/2 BPSK	135	138	25.52	25.64	25.40	26.5	0.5	
100	PI/2 BPSK	270	0	25.57	25.69	25.45			
100	QPSK	1	1	26.04	26.16	25.92			
100	QPSK	1	137	25.85	26.00	25.76	27.0	0.0	
100	QPSK	1	271	25.82	25.84	25.70			
100	QPSK	135	0	25.00	25.12	24.88	26.0	1.0	
100	QPSK	135	69	26.02	26.14	25.90	27.0	0.0	
100	QPSK	135	138	24.99	25.11	24.87	26.0	1.0	
100	QPSK	270	0	25.05	25.17	24.93			
100	16QAM	1	1	24.60	24.72	24.48	26.0	1.0	
100	16QAM	1	1	23.08	23.20	22.96	24.5	2.5	
100	256QAM	1	1	21.85	21.71	21.47	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.00	26.12	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.09	26.04	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.10	26.03	26.04	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.01	26.07	26.11	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.11	26.01	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.01	26.05	26.05	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.09	26.10	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.07	26.11	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.05	26.00	26.01	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.03	26.07	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.08	26.10	26.09	27.0	0.0	



**Part27Q n77\_FCC PC3 Ant3**

BW (MHz)	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	22.87	3500.01				
100	Pi2 BPSK	1	137	22.99			24.0	0.0	
100	Pi2 BPSK	1	271	22.96					
100	Pi2 BPSK	135	0	23.01			24.0	0.0	
100	Pi2 BPSK	135	69	23.06			24.0	0.0	
100	Pi2 BPSK	135	138	23.06			24.0	0.0	
100	Pi2 BPSK	270	0	23.09			24.0	0.0	
100	QPSK	1	1	23.12					
100	QPSK	1	137	23.01			24.0	0.0	
100	QPSK	1	271	23.01					
100	QPSK	135	0	22.98			24.0	0.0	
100	QPSK	135	69	23.06			24.0	0.0	
100	QPSK	135	138	23.03			24.0	0.0	
100	QPSK	270	0	23.04			24.0	0.0	
100	16QAM	1	1	22.66			24.0	0.0	
100	64QAM	1	1	22.74			24.0	0.0	
100	256QAM	1	1	22.74			22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.01	633000	633668	Tune-up limit	MPR	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.01	3495	3500.01	3505.02	24.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.05	632688	633334	634000	Tune-up limit	MPR
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.03	3495.02	3500.01	3510	24.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.02	632000	633334	634668	Tune-up limit	MPR
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.02	3480	3500.01	3520.02	24.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.08	631000	633334	635668	Tune-up limit	MPR
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.08	3475.02	3500.01	3525	24.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.02	631334	633334	635334	Tune-up limit	MPR
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.96	3465	3500.01	3535.02	24.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.04	630960	633334	635968	Tune-up limit	MPR
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.05	3467.5	3500.01	3542.5	24.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	630334	633334	636334	Tune-up limit	MPR
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	3455.01	3500.01	3545.01	24.0	0.0

**Part27Q n77\_FCC PC2 Ant3**

BW (MHz)	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	25.53	3500.01				
100	Pi2 BPSK	1	137	25.09			27.0	0.0	
100	Pi2 BPSK	1	271	25.98					
100	Pi2 BPSK	135	0	25.54			26.5	0.5	
100	Pi2 BPSK	135	69	25.17			27.0	0.0	
100	Pi2 BPSK	135	138	25.62			26.5	0.5	
100	Pi2 BPSK	270	0	25.58			26.5	0.0	
100	QPSK	1	1	26.19					
100	QPSK	1	137	25.86			27.0	0.0	
100	QPSK	1	271	25.97					
100	QPSK	135	0	25.08			26.0	1.0	
100	QPSK	135	69	26.03			27.0	0.0	
100	QPSK	135	138	25.10			26.0	1.0	
100	QPSK	270	0	25.03			24.5	2.5	
100	16QAM	1	1	24.69			24.5	1.0	
100	64QAM	1	1	23.13			24.5	2.5	
100	256QAM	1	1	21.74			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.05	633000	633334	633668	Tune-up limit	MPR
Channel									
Frequency (MHz)									
90	QPSK	1	1	26.05	3495	3500.01	3505.02	24.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	26.13	632688	633334	634000	Tune-up limit	MPR
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.08	3495.02	3500.01	3510	27.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.11	632000	633334	634668	Tune-up limit	MPR
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.11	3480	3500.01	3520.02	24.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	26.12	631000	633334	635668	Tune-up limit	MPR
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.11	3475.02	3500.01	3525	27.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.08	631334	633334	635334	Tune-up limit	MPR
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.12	3465	3500.01	3535.02	27.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.07	630960	633334	635968	Tune-up limit	MPR
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.06	3467.5	3500.01	3542.5	27.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.11	630334	633334	636334	Tune-up limit	MPR
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.11	3455.01	3500.01	3545.01	27.0	0.0



Part270 n78_FCC PC3 Ant3								
BW (MHz)	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	3750	3750	3750		
100	PI2 BPSK	1	137	2227			24.0	0.0
100	PI2 BPSK	1	271	2237				
100	PI2 BPSK	1	271	2219				
100	PI2 BPSK	135	0	2196			23.5	0.5
100	PI2 BPSK	135	69	2240			24.0	0.0
100	PI2 BPSK	135	138	2184			23.5	0.5
100	PI2 BPSK	270	0	2196				
100	QPSK	1	1	2248			24.0	0.0
100	QPSK	1	137	2224				
100	QPSK	1	271	2238				
100	QPSK	135	0	2141			23.0	1.0
100	QPSK	135	69	2242			24.0	0.0
100	QPSK	135	138	2134			23.0	1.0
100	QPSK	270	0	2138				
100	16QAM	1	1	2101			23.0	1.0
100	16QAM	1	1	1858			21.5	2.5
100	25QAM	1	1	1811			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3496.02	3750	3755.01	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2243	2244	2233	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2240	2239	2234	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2234	2239	2234	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2235	2234	2240	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2233	2235	2232	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2239	2235	2247	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	2241	2235	2240	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2241	2242	2243	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2242	2235	2240	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2236	2241	2242	24.0	0.0

Part27Q 78_FCC PC3 Ant3								
BW (MHz)	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	3600.01				
100	PI2 BPSK	1	137	2242			24.0	0.0
100	PI2 BPSK	1	271	2244				
100	PI2 BPSK	1	271	2248				
100	PI2 BPSK	135	0	2206			23.5	0.5
100	PI2 BPSK	135	69	2247			24.0	0.0
100	PI2 BPSK	135	138	2211			23.5	0.5
100	PI2 BPSK	270	0	2201				
100	QPSK	1	1	2269			24.0	0.0
100	QPSK	1	137	2256				
100	QPSK	1	271	2254				
100	QPSK	135	0	2147			23.0	1.0
100	QPSK	135	69	2262			24.0	0.0
100	QPSK	135	138	2156			23.0	1.0
100	QPSK	270	0	2159				
100	16QAM	1	1	2113			23.0	1.0
100	16QAM	1	1	1864			21.5	2.5
100	25QAM	1	1	1821			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	3485	3600.01	3605.02	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2254	2260	2255	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2257	2261	2262	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2259	2261	2255	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2258	2253	2261	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2263	2255	2269	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2263	2260	2264	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	2257	2263	2256	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2261	2259	2255	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2263	2264	2261	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2265	2260	2260	24.0	0.0



n48 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	22.23	22.24	22.18			
40	PI/2 BPSK	1	53	22.26	22.31	22.26	23.4	0.0	
40	PI/2 BPSK	1	104	21.97	22.04	21.98			
40	PI/2 BPSK	50	0	21.85	21.71	21.65	22.9	0.5	
40	PI/2 BPSK	50	26	22.20	22.24	22.14	23.4	0.0	
40	PI/2 BPSK	50	56	21.41	21.47	21.32	22.9	0.5	
40	PI/2 BPSK	100	0	21.51	21.64	21.57			
40	QPSK	1	1	22.25	22.34	22.20			
40	QPSK	1	53	22.23	22.27	22.12	23.4	0.0	
40	QPSK	1	104	21.77	21.92	21.85			
40	QPSK	50	0	21.06	21.21	21.08	22.4	1.0	
40	QPSK	50	26	22.03	22.18	22.06	23.4	0.0	
40	QPSK	50	56	20.85	20.98	20.88	22.4	1.0	
40	QPSK	100	0	21.05	21.17	21.03	22.4	1.0	
40	16QAM	1	1	20.96	21.08	21.03	22.4	1.0	
40	16QAM	1	1	19.52	19.66	19.53	20.9	2.5	
40	256QAM	1	1	18.21	18.25	18.16	18.7	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.12	22.29	22.15	23.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.14	22.20	22.13	23.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.25	22.24	22.25	23.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.15	22.21	22.12	23.4	0.0	

Par270 n77_FCC PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	22.30	22.41	22.29			
100	PI/2 BPSK	1	137	22.32	22.44	22.35	24.0	0.0	
100	PI/2 BPSK	1	271	22.10	22.25	22.15			
100	PI/2 BPSK	135	0	22.21	22.46	22.31	24.0	0.0	
100	PI/2 BPSK	135	69	22.41	22.55	22.43	24.0	0.0	
100	PI/2 BPSK	135	138	22.35	22.42	22.28	24.0	0.0	
100	PI/2 BPSK	270	0	22.38	22.53	22.43			
100	QPSK	1	1	22.39	22.58	22.24			
100	QPSK	1	137	22.26	22.34	22.20	24.0	0.0	
100	QPSK	1	271	22.16	22.24	22.18			
100	QPSK	135	0	22.16	22.29	22.18	24.0	0.0	
100	QPSK	135	69	22.45	22.56	22.43	24.0	0.0	
100	QPSK	135	138	22.24	22.37	22.21	24.0	0.0	
100	QPSK	270	0	22.41	22.52	22.46			
100	16QAM	1	1	22.22	22.07	22.04	24.0	0.0	
100	16QAM	1	1	22.26	22.14	22.08	24.0	0.0	
100	256QAM	1	1	21.28	21.20	21.12	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.29	22.52	22.17	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.26	22.44	22.11	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.29	22.40	22.09	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.30	22.54	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.24	22.53	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.25	22.48	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.24	22.49	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.24	22.50	22.12	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.29	22.48	22.15	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.24	22.52	22.13	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.26	22.51	22.12	24.0	0.0	

Par270 n77_FCC PC2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	25.32	25.42	25.33			
100	PI/2 BPSK	1	137	25.25	25.40	25.24	26.5	0.0	
100	PI/2 BPSK	1	271	25.23	25.31	25.22			
100	PI/2 BPSK	135	0	24.89	24.97	24.86	26.0	0.5	
100	PI/2 BPSK	135	69	25.41	25.60	25.45	26.5	0.0	
100	PI/2 BPSK	135	138	24.80	24.92	24.77	26.0	0.5	
100	PI/2 BPSK	270	0	24.84	25.09	25.00			
100	QPSK	1	1	25.51	25.64	25.55			
100	QPSK	1	137	25.35	25.41	25.31	26.5	0.0	
100	QPSK	1	271	25.13	25.29	25.16			
100	QPSK	135	0	24.37	24.47	24.37	25.5	1.0	
100	QPSK	135	69	25.50	25.59	25.49	26.5	0.0	
100	QPSK	135	138	24.31	24.44	24.30	25.5	1.0	
100	QPSK	270	0	24.42	24.52	24.38			
100	16QAM	1	1	24.07	24.19	24.10	25.5	1.0	
100	16QAM	1	1	22.50	22.64	22.52	24.0	2.5	
100	256QAM	1	1	21.02	21.11	20.88	22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.59	25.59	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.54	25.53	25.54	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.60	25.58	25.52	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.50	25.49	25.54	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.55	25.52	25.59	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.56	25.60	25.57	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.51	25.50	25.50	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.60	25.51	25.51	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.59	25.55	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.51	25.49	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.56	25.57	25.51	26.5	0.0	





Part27Q n77_FCC PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.29	22.29	3000.01			
100	PI2 BPSK	1	137	22.56	22.56		24.0	0.0	
100	PI2 BPSK	1	271	22.42	22.42				
100	PI2 BPSK	135	0	22.46	22.46		24.0	0.0	
100	PI2 BPSK	135	69	22.57	22.57		24.0	0.0	
100	PI2 BPSK	135	138	22.53	22.53		24.0	0.0	
100	PI2 BPSK	270	0	22.50	22.50				
100	QPSK	1	1	22.81	22.81				
100	QPSK	1	137	22.26	22.26		24.0	0.0	
100	QPSK	1	271	22.44	22.44				
100	QPSK	135	0	22.82	22.82		24.0	0.0	
100	QPSK	135	69	22.55	22.55		24.0	0.0	
100	QPSK	135	138	22.39	22.39		24.0	0.0	
100	QPSK	270	0	22.48	22.48				
100	16QAM	1	1	22.09	22.09		24.0	0.0	
100	16QAM	1	1	22.13	22.13		24.0	0.0	
100	25QAM	1	1	21.15	21.15		22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.50	22.54	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.45	22.51	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.44	22.54	22.57	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.52	22.46	22.52	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.49	22.57	22.51	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.54	22.49	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.42	22.53	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.56	22.56	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.55	22.50	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.55	22.54	22.47	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.49	22.55	22.56	24.0	0.0	

Part27Q n77_FCC PC2 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.44	25.44	3000.01			
100	PI2 BPSK	1	137	25.54	25.54		26.5	0.0	
100	PI2 BPSK	1	271	25.42	25.42				
100	PI2 BPSK	135	0	25.06	25.06		26.0	0.5	
100	PI2 BPSK	135	69	25.46	25.46		26.5	0.0	
100	PI2 BPSK	135	138	25.13	25.13		26.0	0.5	
100	PI2 BPSK	270	0	25.08	25.08				
100	QPSK	1	1	25.06	25.06				
100	QPSK	1	137	25.01	25.01		26.5	0.0	
100	QPSK	1	271	25.46	25.46				
100	QPSK	135	0	24.53	24.53		25.5	1.0	
100	QPSK	135	69	25.63	25.63		26.5	0.0	
100	QPSK	135	138	24.52	24.52		25.5	1.0	
100	QPSK	270	0	25.02	25.02				
100	16QAM	1	1	24.14	24.14		25.5	1.0	
100	16QAM	1	1	22.59	22.59		24.0	2.5	
100	25QAM	1	1	21.11	21.11		22.0	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.51	25.51	25.58	26.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.51	25.52	25.57	26.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.01	25.05	25.09	26.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.59	25.58	25.51	26.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.53	25.51	25.56	26.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.60	25.59	25.51	26.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.59	25.50	25.49	26.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.56	25.59	25.59	26.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.62	25.50	25.56	26.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.53	25.54	25.61	26.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.60	25.57	25.57	26.5	0.0	



Part270 n78_FCC PC3 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Mid Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				650000	650000	650000				
Frequency (MHz)				3750	3750	3750				
100	Pl2 BPSK	1	1	21.59	22.11	22.11				
100	Pl2 BPSK	1	137	22.08	22.08	22.08	23.7	0.0		
100	Pl2 BPSK	1	271	21.92	21.92	21.92				
100	Pl2 BPSK	135	0	21.55	21.55	21.55	23.2	0.5		
100	Pl2 BPSK	135	69	22.10	22.10	22.10	23.7	0.0		
100	Pl2 BPSK	135	138	21.46	21.46	21.46	23.2	0.5		
100	Pl2 BPSK	270	0	21.54	21.54	21.54	23.2	0.5		
100	QPSK	1	1	22.14	22.14	22.14				
100	QPSK	1	137	22.11	22.11	22.11	23.7	0.0		
100	QPSK	1	271	21.83	21.83	21.83				
100	QPSK	135	0	20.99	20.99	20.99	22.7	1.0		
100	QPSK	135	69	22.08	22.08	22.08	23.7	0.0		
100	QPSK	135	138	20.90	20.90	20.90	22.7	1.0		
100	QPSK	270	0	21.01	21.01	21.01	22.7	1.0		
100	16QAM	1	1	20.98	20.98	20.98	22.7	1.0		
100	64QAM	1	1	19.34	19.34	19.34	21.2	2.5		
100	256QAM	1	1	17.66	17.66	17.66	19.2	4.5		
Channel				649999	650000	650000	Tune-up limit	MPR		
Frequency (MHz)				3745.02	3750	3750.01	(dBm)	(dB)		
90	QPSK	1	1	22.03	22.02	21.98	23.7	0.0		
Channel				649334	650000	650666	Tune-up limit	MPR		
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)		
80	QPSK	1	1	22.10	22.00	22.04	23.7	0.0		
Channel				649000	650000	651000	Tune-up limit	MPR		
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)		
70	QPSK	1	1	21.99	22.01	22.00	23.7	0.0		
Channel				648668	650000	651334	Tune-up limit	MPR		
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)		
60	QPSK	1	1	22.08	22.07	22.03	23.7	0.0		
Channel				648334	650000	651666	Tune-up limit	MPR		
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)		
50	QPSK	1	1	21.99	21.99	22.02	23.7	0.0		
Channel				648000	650000	652000	Tune-up limit	MPR		
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)		
40	QPSK	1	1	21.99	22.07	22.00	23.7	0.0		
Channel				647668	650000	652334	Tune-up limit	MPR		
Frequency (MHz)				3715.02	3750	3785.01	(dBm)	(dB)		
30	QPSK	1	1	22.09	22.09	21.98	23.7	0.0		
Channel				647334	650000	652666	Tune-up limit	MPR		
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)		
25	QPSK	1	1	22.08	22.05	22.06	23.7	0.0		
Channel				647000	650000	653000	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		
20	QPSK	1	1	22.09	22.08	22.08	23.7	0.0		
Channel				647168	650000	652834	Tune-up limit	MPR		
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)		
15	QPSK	1	1	22.08	22.06	21.99	23.7	0.0		
Channel				647000	650000	653000	Tune-up limit	MPR		
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)		
10	QPSK	1	1	22.09	22.01	22.09	23.7	0.0		

Part27Q 78_FCC PC3 Ant4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Mid Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				633000	633334	633334				
Frequency (MHz)				3500.01	3500.01	3500.01				
100	Pl2 BPSK	1	1	22.52	22.52	22.52				
100	Pl2 BPSK	1	137	22.37	22.37	22.37	23.7	0.0		
100	Pl2 BPSK	1	271	22.26	22.26	22.26				
100	Pl2 BPSK	135	0	21.77	21.77	21.77	23.2	0.5		
100	Pl2 BPSK	135	69	22.30	22.30	22.30	23.7	0.0		
100	Pl2 BPSK	135	138	21.76	21.76	21.76	23.2	0.5		
100	Pl2 BPSK	270	0	21.70	21.70	21.70	23.2	0.5		
100	QPSK	1	1	22.39	22.39	22.39				
100	QPSK	1	137	22.26	22.26	22.26	23.7	0.0		
100	QPSK	1	271	22.21	22.21	22.21				
100	QPSK	135	0	21.20	21.20	21.20	22.7	1.0		
100	QPSK	135	69	22.26	22.26	22.26	23.7	0.0		
100	QPSK	135	138	21.21	21.21	21.21	22.7	1.0		
100	QPSK	270	0	21.25	21.25	21.25	22.7	1.0		
100	16QAM	1	1	20.95	20.95	20.95	21.2	2.5		
100	64QAM	1	1	19.37	19.37	19.37	19.2	4.5		
100	256QAM	1	1	17.81	17.81	17.81	19.2	4.5		
Channel				633000	633334	633668	Tune-up limit	MPR		
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)		
90	QPSK	1	1	22.31	22.33	22.30	23.7	0.0		
Channel				632668	633334	634000	Tune-up limit	MPR		
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)		
80	QPSK	1	1	22.25	22.29	22.30	23.7	0.0		
Channel				632334	633334	634334	Tune-up limit	MPR		
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)		
70	QPSK	1	1	22.29	22.31	22.25	23.7	0.0		
Channel				632000	633334	634668	Tune-up limit	MPR		
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)		
60	QPSK	1	1	22.29	22.34	22.25	23.7	0.0		
Channel				631668	633334	635000	Tune-up limit	MPR		
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)		
50	QPSK	1	1	22.26	22.29	22.27	23.7	0.0		
Channel				631334	633334	635334	Tune-up limit	MPR		
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)		
40	QPSK	1	1	22.24	22.27	22.24	23.7	0.0		
Channel				631000	633334	635668	Tune-up limit	MPR		
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)		
30	QPSK	1	1	22.30	22.29	22.29	23.7	0.0		
Channel				630668	633334	636000	Tune-up limit	MPR		
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)		
25	QPSK	1	1	22.28	22.32	22.24	23.7	0.0		
Channel				630334	633334	636334	Tune-up limit	MPR		
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)		
20	QPSK	1	1	22.33	22.24	22.24	23.7	0.0		
Channel				630000	633334	636668	Tune-up limit	MPR		
Frequency (MHz)				3450.01	3500.01	3545.02	(dBm)	(dB)		
15	QPSK	1	1	22.26	22.33	22.28	23.7	0.0		
Channel				630334	633334	636334	Tune-up limit	MPR		
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)		
10	QPSK	1	1	22.28	22.35	22.29	23.7	0.0		



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	631666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	23.12	23.15	23.02			
40	PI2 BPSK	1	53	23.07	23.18	23.03	24.0	0.0	
40	PI2 BPSK	1	164	23.00	23.06	22.85			
40	PI2 BPSK	50	0	22.81	22.71	22.80	23.5	0.5	
40	PI2 BPSK	50	28	23.07	23.11	23.02	24.0	0.0	
40	PI2 BPSK	50	58	22.36	22.42	22.31	23.5	0.5	
40	PI2 BPSK	100	0	22.79	22.89	22.83			
40	QPSK	1	1	23.16	23.16	23.10	24.0	0.0	
40	QPSK	1	53	23.02	23.05	22.94			
40	QPSK	1	104	22.93	22.98	22.90			
40	QPSK	50	0	22.06	22.16	22.06	23.0	1.0	
40	QPSK	50	28	23.06	23.13	23.07	24.0	0.0	
40	QPSK	50	58	21.95	22.06	22.01	23.0	1.0	
40	QPSK	100	0	22.06	22.11	21.97			
40	16QAM	1	1	21.79	21.90	21.87	23.0	1.0	
40	16QAM	1	1	20.38	20.51	20.39	21.5	2.5	
40	256QAM	1	1	18.83	18.92	18.79	19.5	4.5	
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	23.11	23.14	22.98	24.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	23.05	23.15	23.05	24.0	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	23.11	23.06	23.04	24.0	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	23.03	23.15	23.02	24.0	0.0	

Par270 n77_FCC PC3 Ant5									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	22.86	22.95	22.84			
100	PI2 BPSK	1	137	22.59	22.74	22.59	24.0	0.0	
100	PI2 BPSK	1	271	22.71	22.85	22.70			
100	PI2 BPSK	135	0	22.81	22.94	22.83	24.0	0.0	
100	PI2 BPSK	135	69	22.75	22.86	22.72	24.0	0.0	
100	PI2 BPSK	135	138	22.65	22.76	22.68	24.0	0.0	
100	PI2 BPSK	270	0	22.66	22.75	22.65			
100	QPSK	1	1	22.86	23.01	22.90			
100	QPSK	1	137	22.80	22.89	22.78	24.0	0.0	
100	QPSK	1	271	22.65	22.74	22.64			
100	QPSK	135	0	22.79	22.95	22.80	24.0	0.0	
100	QPSK	135	69	22.85	22.98	22.88	24.0	0.0	
100	QPSK	135	138	22.54	22.70	22.59	24.0	0.0	
100	QPSK	270	0	22.66	22.81	22.67			
100	16QAM	1	1	22.71	22.84	22.74	24.0	0.0	
100	16QAM	1	1	22.69	22.83	22.72	24.0	0.0	
100	256QAM	1	1	21.44	21.53	21.37	22.5	1.5	
Channel				649668	650000	649334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	22.86	22.96	22.82	24.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	22.90	22.90	22.70	24.0	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	22.87	22.94	22.85	24.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	22.91	22.95	22.80	24.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	22.89	22.97	22.77	24.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	22.88	22.93	22.77	24.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	22.86	22.93	22.75	24.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	22.88	22.90	22.73	24.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	22.82	22.87	22.78	24.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	22.83	22.90	22.83	24.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	22.87	22.95	22.82	24.0	0.0	

Par270 n77_FCC PC2 Ant5									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	25.89	25.98	25.89			
100	PI2 BPSK	1	137	25.93	26.06	25.92	27.0	0.0	
100	PI2 BPSK	1	271	25.85	25.94	25.86			
100	PI2 BPSK	135	0	25.93	25.86	25.93	26.5	0.5	
100	PI2 BPSK	135	69	25.83	25.96	25.88	27.0	0.0	
100	PI2 BPSK	135	138	25.48	25.57	25.47	26.5	0.5	
100	PI2 BPSK	270	0	25.48	25.61	25.46			
100	QPSK	1	1	25.93	26.06	25.96			
100	QPSK	1	137	25.80	25.95	25.80	27.0	0.0	
100	QPSK	1	271	25.89	26.03	25.89			
100	QPSK	135	0	24.97	25.08	24.95	26.0	1.0	
100	QPSK	135	69	25.95	26.04	25.94	27.0	0.0	
100	QPSK	135	138	24.89	24.96	24.85	26.0	1.0	
100	QPSK	270	0	24.85	25.00	24.90			
100	16QAM	1	1	24.48	24.58	24.47	26.0	1.0	
100	16QAM	1	1	23.00	23.12	22.98	24.5	2.5	
100	256QAM	1	1	21.58	21.66	21.51	22.5	4.5	
Channel				649668	650000	649334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	25.96	25.96	25.99	27.0	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	25.94	26.00	25.03	27.0	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	26.02	25.95	25.98	27.0	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	25.97	26.01	26.00	27.0	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	25.99	25.94	26.00	27.0	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	26.00	25.97	25.94	27.0	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	26.02	26.00	25.95	27.0	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	26.00	25.95	25.93	27.0	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	26.02	26.03	25.99	27.0	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	26.01	26.02	25.96	27.0	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	26.00	26.00	26.05	27.0	0.0	



Part27Q n77_FCC PC3 Ant5									
BW (MHz)	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		23.05				
100	PI2 BPSK	1	137		22.90		24.0	0.0	
100	PI2 BPSK	1	271		23.00				
100	PI2 BPSK	135	0		22.84		24.0	0.0	
100	PI2 BPSK	135	69		22.83		24.0	0.0	
100	PI2 BPSK	135	138		22.87		24.0	0.0	
100	PI2 BPSK	270	0		22.85				
100	QPSK	1	1		23.11				
100	QPSK	1	137		23.03		24.0	0.0	
100	QPSK	1	271		23.06				
100	QPSK	135	0		22.99		24.0	0.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		22.94		24.0	0.0	
100	QPSK	270	0		23.11				
100	16QAM	1	1		23.03		24.0	0.0	
100	16QAM	1	1		22.93		24.0	0.0	
100	256QAM	1	1		21.53		22.5	1.5	
Channel									
Frequency (MHz)									
633090 633334 633668									
3495 3500.01 3505.02									
90	QPSK	1	1		22.98	23.08	23.00	24.0	0.0
Channel									
Frequency (MHz)									
632668 633334 634000									
3490.02 3500.01 3510									
80	QPSK	1	1		22.90	22.99	22.98	24.0	0.0
Channel									
Frequency (MHz)									
632334 633334 634334									
3485.01 3500.01 3515.01									
70	QPSK	1	1		22.94	22.97	22.87	24.0	0.0
Channel									
Frequency (MHz)									
632000 633334 634668									
3480 3500.01 3520.02									
60	QPSK	1	1		22.87	22.99	22.86	24.0	0.0
Channel									
Frequency (MHz)									
631668 633334 635000									
3475.02 3500.01 3525									
50	QPSK	1	1		23.07	23.05	22.98	24.0	0.0
Channel									
Frequency (MHz)									
631334 633334 635334									
3470.01 3500.01 3530.01									
40	QPSK	1	1		23.01	23.07	22.99	24.0	0.0
Channel									
Frequency (MHz)									
631000 633334 635668									
3465 3500.01 3535.02									
30	QPSK	1	1		22.92	23.03	22.89	24.0	0.0
Channel									
Frequency (MHz)									
630834 633334 635834									
3462.51 3500.01 3537.51									
25	QPSK	1	1		23.00	23.03	22.98	24.0	0.0
Channel									
Frequency (MHz)									
630668 633334 636000									
3460.02 3500.01 3540									
20	QPSK	1	1		22.83	22.96	22.94	24.0	0.0
Channel									
Frequency (MHz)									
630500 633334 636168									
3457.5 3500.01 3542.52									
15	QPSK	1	1		22.95	23.08	23.01	24.0	0.0
Channel									
Frequency (MHz)									
630334 633334 636334									
3455.01 3500.01 3545.01									
10	QPSK	1	1		22.92	23.02	22.93	24.0	0.0

Part27Q n77_FCC PC2 Ant5									
BW (MHz)	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		25.88				
100	PI2 BPSK	1	137		25.78		27.0	0.0	
100	PI2 BPSK	1	271		25.72				
100	PI2 BPSK	135	0		25.52		26.5	0.5	
100	PI2 BPSK	135	69		25.89		27.0	0.0	
100	PI2 BPSK	135	138		25.24		26.5	0.5	
100	PI2 BPSK	270	0		25.44				
100	QPSK	1	1		26.04				
100	QPSK	1	137		25.98		27.0	0.0	
100	QPSK	1	271		25.88				
100	QPSK	135	0		25.12		26.0	1.0	
100	QPSK	135	69		25.97		27.0	0.0	
100	QPSK	135	138		24.84		26.0	1.0	
100	QPSK	270	0		24.98				
100	16QAM	1	1		24.94		26.0	1.0	
100	16QAM	1	1		23.48		24.5	2.5	
100	256QAM	1	1		21.54		22.5	4.5	
Channel									
Frequency (MHz)									
633090 633334 633668									
3495 3500.01 3505.02									
90	QPSK	1	1		25.90	26.01	25.93	27.0	0.0
Channel									
Frequency (MHz)									
632668 633334 634000									
3490.02 3500.01 3510									
80	QPSK	1	1		25.87	25.92	25.92	27.0	0.0
Channel									
Frequency (MHz)									
632334 633334 634334									
3485.01 3500.01 3515.01									
70	QPSK	1	1		25.82	25.82	25.91	27.0	0.0
Channel									
Frequency (MHz)									
632000 633334 634668									
3480 3500.01 3520.02									
60	QPSK	1	1		25.85	25.87	25.88	27.0	0.0
Channel									
Frequency (MHz)									
631668 633334 635000									
3475.02 3500.01 3525									
50	QPSK	1	1		25.80	25.83	25.94	27.0	0.0
Channel									
Frequency (MHz)									
631334 633334 635334									
3470.01 3500.01 3530.01									
40	QPSK	1	1		25.77	25.88	25.90	27.0	0.0
Channel									
Frequency (MHz)									
631000 633334 635668									
3465 3500.01 3535.02									
30	QPSK	1	1		25.70	25.91	25.94	27.0	0.0
Channel									
Frequency (MHz)									
630834 633334 635834									
3462.51 3500.01 3537.51									
25	QPSK	1	1		25.80	25.90	25.89	27.0	0.0
Channel									
Frequency (MHz)									
630668 633334 636000									
3460.02 3500.01 3540									
20	QPSK	1	1		25.84	25.85	25.94	27.0	0.0
Channel									
Frequency (MHz)									
630500 633334 636168									
3457.5 3500.01 3542.52									
15	QPSK	1	1		25.82	25.86	25.86	27.0	0.0
Channel									
Frequency (MHz)									
630334 633334 636334									
3455.01 3500.01 3545.01									
10	QPSK	1	1		25.82	25.90	25.86	27.0	0.0



Part270 n78_FCC PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	22.35	22.35	22.35			
100	PI/2 BPSK	1	137		22.23		24.0	0.0	
100	PI/2 BPSK	1	271		22.21				
100	PI/2 BPSK	135	0		21.90		23.5	0.5	
100	PI/2 BPSK	135	69		22.40		24.0	0.0	
100	PI/2 BPSK	135	138		21.70		23.5	0.5	
100	PI/2 BPSK	270	0		21.82				
100	QPSK	1	1		22.48				
100	QPSK	1	137		22.40		24.0	0.0	
100	QPSK	1	271		22.29				
100	QPSK	135	0		21.37		23.0	1.0	
100	QPSK	135	69		22.39		24.0	0.0	
100	QPSK	135	138		21.33		23.0	1.0	
100	QPSK	270	0		21.44				
100	16QAM	1	1		21.28		23.0	1.0	
100	64QAM	1	1		19.88		21.5	2.5	
100	256QAM	1	1		17.91		19.5	4.5	
Channel				64968	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	22.35	22.35	22.40	24.0	0.0	
Channel				64934	65000	65068	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	22.33	22.32	22.30	24.0	0.0	
Channel				64900	65000	65100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	22.33	22.33	22.22	24.0	0.0	
Channel				64868	65000	65134	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.03			
60	QPSK	1	1	22.30	22.35	22.29	24.0	0.0	
Channel				64834	65000	65168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	22.25	22.38	22.29	24.0	0.0	
Channel				64800	65000	65200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	22.34	22.29	22.24	24.0	0.0	
Channel				64768	65000	65234	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	22.27	22.34	22.30	24.0	0.0	
Channel				64730	65000	65290	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	22.34	22.38	22.22	24.0	0.0	
Channel				64734	65000	65268	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	22.25	22.33	22.23	24.0	0.0	
Channel				64718	65000	65284	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	22.34	22.37	22.27	24.0	0.0	
Channel				64700	65000	65300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	22.28	22.28	22.29	24.0	0.0	

Part27Q 78_FCC PC3 Ant5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				63334	63334	63334			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		22.56				
100	PI/2 BPSK	1	137		22.48		24.0	0.0	
100	PI/2 BPSK	1	271		22.40				
100	PI/2 BPSK	135	0		22.00		23.5	0.5	
100	PI/2 BPSK	135	69		22.57		24.0	0.0	
100	PI/2 BPSK	135	138		21.92		23.5	0.5	
100	PI/2 BPSK	270	0		22.12				
100	QPSK	1	1		22.68				
100	QPSK	1	137		22.08		24.0	0.0	
100	QPSK	1	271		22.58				
100	QPSK	135	0		21.60		23.0	1.0	
100	QPSK	135	69		22.57		24.0	0.0	
100	QPSK	135	138		21.62		23.0	1.0	
100	QPSK	270	0		21.68				
100	16QAM	1	1		21.44		23.0	1.0	
100	64QAM	1	1		20.09		21.5	2.5	
100	256QAM	1	1		18.22		19.5	4.5	
Channel				63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	22.83	22.54	22.55	24.0	0.0	
Channel				63268	63334	63400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	22.54	22.57	22.50	24.0	0.0	
Channel				63234	63334	63434	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	22.45	22.51	22.50	24.0	0.0	
Channel				63200	63334	63468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	22.54	22.57	22.49	24.0	0.0	
Channel				63168	63334	63500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	22.46	22.51	22.50	24.0	0.0	
Channel				63134	63334	63534	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	22.45	22.49	22.46	24.0	0.0	
Channel				63100	63334	63568	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	22.43	22.49	22.48	24.0	0.0	
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	22.50	22.48	22.51	24.0	0.0	
Channel				63068	63334	63600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	22.44	22.53	22.48	24.0	0.0	
Channel				63050	63334	63618	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	22.47	22.55	22.44	24.0	0.0	
Channel				63034	63334	63634	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	22.54	22.48	22.48	24.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3370	3624.99	3679.98			
40	PI2 BPSK	1	1	21.46	21.76	21.44			
40	PI2 BPSK	1	53	21.61	21.69	21.54			
40	PI2 BPSK	1	164	21.29	21.37	21.21			
40	PI2 BPSK	50	0	21.02	21.13	20.98	22.1	0.5	
40	PI2 BPSK	50	28	21.47	21.56	21.45	22.6	0.0	
40	PI2 BPSK	50	58	20.76	20.82	20.77	22.1	0.5	
40	PI2 BPSK	100	0	20.91	20.96	20.90			
40	QPSK	1	1	21.55	21.62	21.42			
40	QPSK	1	53	21.41	21.57	21.52	22.6	0.0	
40	QPSK	1	104	21.24	21.32	21.19			
40	QPSK	50	0	20.48	20.53	20.45	21.8	1.0	
40	QPSK	50	28	21.41	21.53	21.38	22.6	0.0	
40	QPSK	50	58	20.25	20.33	20.21	21.6	1.0	
40	QPSK	100	0	20.38	20.46	20.30			
40	16QAM	1	1	20.12	20.29	20.18	21.6	1.0	
40	16QAM	1	1	18.72	18.84	18.70	20.1	2.5	
40	256QAM	1	1	17.37	17.53	17.34	18.1	4.5	
Channel				63766	64166	64500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	21.53	21.59	21.46	22.6	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3680			
20	QPSK	1	1	21.59	21.52	21.37	22.6	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3567.52	3624.99	3692.49			
15	QPSK	1	1	21.25	21.36	21.35	22.6	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	21.90	21.45	21.35	22.6	0.0	

Par270 n77_FCC PC3 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				65000	65000	65000			
100	PI2 BPSK	1	1	21.80	21.82	21.59			
100	PI2 BPSK	1	137	21.66	21.79	21.72			
100	PI2 BPSK	1	271	21.42	21.52	21.41	22.5	0.0	
100	PI2 BPSK	135	0	21.91	21.96	21.84	22.5	0.0	
100	PI2 BPSK	135	69	21.81	21.91	21.75	22.5	0.0	
100	PI2 BPSK	135	138	21.64	21.73	21.63	22.5	0.0	
100	PI2 BPSK	270	0	21.86	21.92	21.80			
100	QPSK	1	1	21.83	22.01	21.65			
100	QPSK	1	137	21.70	21.84	21.75	22.5	0.0	
100	QPSK	1	271	21.38	21.47	21.36			
100	QPSK	135	0	21.89	21.87	21.93	22.5	0.0	
100	QPSK	135	69	21.83	21.98	21.74	22.5	0.0	
100	QPSK	135	138	21.68	21.77	21.64	22.5	0.0	
100	QPSK	270	0	21.85	21.90	21.75			
100	16QAM	1	1	21.58	21.66	21.52	22.5	0.0	
100	16QAM	1	1	21.65	21.61	21.40	22.5	0.0	
100	256QAM	1	1	20.77	20.79	20.66	21.0	1.5	
Channel				648668	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	21.67	21.85	21.55	22.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	21.73	21.94	21.54	22.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	21.69	21.90	21.60	22.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	21.67	21.97	21.60	22.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	21.78	21.92	21.51	22.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	21.74	21.87	21.54	22.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	21.68	21.86	21.50	22.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	21.79	21.90	21.60	22.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	21.79	21.86	21.50	22.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	21.75	21.96	21.54	22.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	21.78	21.89	21.56	22.5	0.0	

Par270 n77_FCC PC2 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				65000	65000	65000			
100	PI2 BPSK	1	1	23.28	23.35	23.22			
100	PI2 BPSK	1	137	23.27	23.39	23.34			
100	PI2 BPSK	1	271	22.99	23.08	22.95	23.5	0.0	
100	PI2 BPSK	135	0	22.94	23.04	22.99	23.5	0.0	
100	PI2 BPSK	135	69	23.14	23.28	23.18	23.5	0.0	
100	PI2 BPSK	135	138	23.08	23.15	23.03	23.5	0.0	
100	PI2 BPSK	270	0	22.87	23.01	22.98			
100	QPSK	1	1	23.34	23.46	23.38			
100	QPSK	1	137	23.28	23.33	23.19	23.5	0.0	
100	QPSK	1	271	23.01	23.12	23.04			
100	QPSK	135	0	23.08	23.16	23.08	23.5	0.0	
100	QPSK	135	69	23.27	23.37	23.30	23.5	0.0	
100	QPSK	135	138	23.14	23.22	23.08	23.5	0.0	
100	QPSK	270	0	22.97	23.08	23.04			
100	16QAM	1	1	22.71	22.79	22.76	23.5	0.0	
100	16QAM	1	1	21.71	21.83	21.72	22.0	1.5	
100	256QAM	1	1	20.21	20.35	20.23	20.5	3.0	
Channel				648668	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	23.24	23.35	23.25	23.5	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	23.28	23.42	23.27	23.5	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	23.27	23.34	23.26	23.5	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	23.22	23.37	23.33	23.5	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	23.25	23.33	23.26	23.5	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	23.22	23.38	23.27	23.5	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3955.01			
30	QPSK	1	1	23.25	23.40	23.27	23.5	0.0	
Channel				647500	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	23.28	23.38	23.33	23.5	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	23.28	23.36	23.33	23.5	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	23.28	23.41	23.29	23.5	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	23.27	23.39	23.28	23.5	0.0	





Part27Q n77_FCC PC3 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR		
Channel				633334			3500.01			
Frequency (MHz)				21.20						
100	PI/2 BPSK	1	1		21.20					
100	PI/2 BPSK	1	137		21.26		22.5	0.0		
100	PI/2 BPSK	1	271		21.30					
100	PI/2 BPSK	135	0		21.05		22.5	0.0		
100	PI/2 BPSK	135	69		21.26		22.5	0.0		
100	PI/2 BPSK	135	138		21.28		22.5	0.0		
100	PI/2 BPSK	270	0		21.28					
100	QPSK	1	1		21.37					
100	QPSK	1	137		21.19		22.5	0.0		
100	QPSK	1	271		21.22					
100	QPSK	135	0		21.10		22.5	0.0		
100	QPSK	135	69		21.33		22.5	0.0		
100	QPSK	135	138		21.21					
100	QPSK	270	0		21.17		22.5	0.0		
100	16QAM	1	1		20.67		22.5	0.0		
100	64QAM	1	1		20.62		22.5	0.0		
100	256QAM	1	1		19.67		21.0	1.5		
Channel				633090			633668			
Frequency (MHz)				3495			3500.01		3505.02	
90	QPSK	1	1	21.27	21.25	21.25	22.5	0.0		
Channel				632668			633334		634000	
Frequency (MHz)				3490.02			3500.01		3510	
80	QPSK	1	1	21.27	21.23	21.29	22.5	0.0		
Channel				632334			633334		634334	
Frequency (MHz)				3485.01			3500.01		3515.01	
70	QPSK	1	1	21.30	21.28	21.28	22.5	0.0		
Channel				632000			633334		634668	
Frequency (MHz)				3480			3500.01		3520.02	
60	QPSK	1	1	21.31	21.33	21.22	22.5	0.0		
Channel				631668			633334		635000	
Frequency (MHz)				3475.02			3500.01		3525	
50	QPSK	1	1	21.32	21.31	21.27	22.5	0.0		
Channel				631334			633334		635334	
Frequency (MHz)				3470.01			3500.01		3530.01	
40	QPSK	1	1	21.23	21.23	21.29	22.5	0.0		
Channel				631000			633334		635668	
Frequency (MHz)				3465			3500.01		3535.02	
30	QPSK	1	1	21.29	21.32	21.32	22.5	0.0		
Channel				630834			633334		635834	
Frequency (MHz)				3462.51			3500.01		3537.51	
25	QPSK	1	1	21.27	21.30	21.27	22.5	0.0		
Channel				630668			633334		636000	
Frequency (MHz)				3460.02			3500.01		3540	
20	QPSK	1	1	21.32	21.27	21.32	22.5	0.0		
Channel				630500			633334		636168	
Frequency (MHz)				3457.5			3500.01		3542.52	
15	QPSK	1	1	21.29	21.28	21.33	22.5	0.0		
Channel				630334			633334		636334	
Frequency (MHz)				3455.01			3500.01		3545.01	
10	QPSK	1	1	21.25	21.29	21.27	22.5	0.0		

Part27Q n77_FCC PC2 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR		
Channel				633334			3500.01			
Frequency (MHz)				21.20						
100	PI/2 BPSK	1	1		21.20					
100	PI/2 BPSK	1	137		21.26		23.5	0.0		
100	PI/2 BPSK	1	271		21.71					
100	PI/2 BPSK	135	0		22.10		23.5	0.0		
100	PI/2 BPSK	135	69		22.09		23.5	0.0		
100	PI/2 BPSK	135	138		22.19		23.5	0.0		
100	PI/2 BPSK	270	0		22.13					
100	QPSK	1	1		22.48					
100	QPSK	1	137		22.18		23.5	0.0		
100	QPSK	1	271		22.16					
100	QPSK	135	0		21.87		23.5	0.0		
100	QPSK	135	69		21.98		23.5	0.0		
100	QPSK	135	138		21.84					
100	QPSK	270	0		21.89		23.5	0.0		
100	16QAM	1	1		20.88		22.5	1.0		
100	64QAM	1	1		20.93		22.0	1.5		
100	256QAM	1	1		20.02		21.0	2.5		
Channel				633090			633334		633668	
Frequency (MHz)				3495			3500.01		3505.02	
90	QPSK	1	1	22.34	22.41	22.41	23.5	0.0		
Channel				632668			633334		634000	
Frequency (MHz)				3490.02			3500.01		3510	
80	QPSK	1	1	22.34	22.35	22.32	23.5	0.0		
Channel				632334			633334		634334	
Frequency (MHz)				3485.01			3500.01		3515.01	
70	QPSK	1	1	22.39	22.36	22.43	23.5	0.0		
Channel				632000			633334		634668	
Frequency (MHz)				3480			3500.01		3520.02	
60	QPSK	1	1	22.33	22.35	22.36	23.5	0.0		
Channel				631668			633334		635000	
Frequency (MHz)				3475.02			3500.01		3525	
50	QPSK	1	1	22.32	22.33	22.38	23.5	0.0		
Channel				631334			633334		635334	
Frequency (MHz)				3470.01			3500.01		3530.01	
40	QPSK	1	1	22.37	22.35	22.34	23.5	0.0		
Channel				631000			633334		635668	
Frequency (MHz)				3465			3500.01		3535.02	
30	QPSK	1	1	22.33	22.37	22.39	23.5	0.0		
Channel				630834			633334		635834	
Frequency (MHz)				3462.51			3500.01		3537.51	
25	QPSK	1	1	22.41	22.31	22.39	23.5	0.0		
Channel				630668			633334		636000	
Frequency (MHz)				3460.02			3500.01		3540	
20	QPSK	1	1	22.36	22.38	22.40	23.5	0.0		
Channel				630500			633334		636168	
Frequency (MHz)				3457.5			3500.01		3542.52	
15	QPSK	1	1	22.32	22.34	22.41	23.5	0.0		
Channel				630334			633334		636334	
Frequency (MHz)				3455.01			3500.01		3545.01	
10	QPSK	1	1	22.32	22.41	22.40	23.5	0.0		



**Part270 n78\_FCC PC3 Ant8**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		21.88				
100	PI2 BPSK	1	137		21.82		22.4	0.0	
100	PI2 BPSK	1	271		21.58				
100	PI2 BPSK	135	0		21.13		21.9	0.5	
100	PI2 BPSK	135	69		21.73		22.4	0.0	
100	PI2 BPSK	135	138		21.07		21.9	0.5	
100	PI2 BPSK	270	0		21.21				
100	QPSK	1	1		21.76				
100	QPSK	1	137		21.85		22.4	0.0	
100	QPSK	1	271		21.57				
100	QPSK	135	0		20.56		21.4	1.0	
100	QPSK	135	69		21.84		22.4	0.0	
100	QPSK	135	138		20.45		21.4	1.0	
100	QPSK	270	0		20.57				
100	16QAM	1	1		20.17		21.4	1.0	
100	64QAM	1	1		18.83		19.9	2.5	
100	256QAM	1	1		17.24		17.9	4.5	
Channel				64868	65000	65034	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3755.01	(dBm)	(dB)	
90	QPSK	1	1		21.72	21.68	21.89	22.4	0.0
Channel				64934	65000	65068	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		21.85	21.87	21.82	22.4	0.0
Channel				64900	65000	65100	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	QPSK	1	1		21.81	21.82	21.81	22.4	0.0
Channel				64868	65000	65134	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3770.01	(dBm)	(dB)	
60	QPSK	1	1		21.70	21.80	21.81	22.4	0.0
Channel				64834	65000	65168	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3775.02	(dBm)	(dB)	
50	QPSK	1	1		21.67	21.83	21.87	22.4	0.0
Channel				64500	65000	65200	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		21.86	21.69	21.72	22.4	0.0
Channel				64768	65000	65234	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750	3735.01	(dBm)	(dB)	
30	QPSK	1	1		21.63	21.82	21.83	22.4	0.0
Channel				64700	65000	65290	Tune-up limit	MPR	
Frequency (MHz)				3712.5	3750	3787.5	(dBm)	(dB)	
25	QPSK	1	1		21.85	21.82	21.82	22.4	0.0
Channel				64734	65000	65268	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		21.60	21.71	21.71	22.4	0.0
Channel				64768	65000	65284	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3750	3792.51	(dBm)	(dB)	
15	QPSK	1	1		21.61	21.71	21.70	22.4	0.0
Channel				64700	65000	65300	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	QPSK	1	1		21.70	21.61	21.82	22.4	0.0

**Part27Q 78\_FCC PC3 Ant8**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				63334	63334	63334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.95				
100	PI2 BPSK	1	137		21.02		22.4	0.0	
100	PI2 BPSK	1	271		21.08				
100	PI2 BPSK	135	0		20.36		21.9	0.5	
100	PI2 BPSK	135	69		20.99		22.4	0.0	
100	PI2 BPSK	135	138		20.51		21.9	0.5	
100	PI2 BPSK	270	0		20.44				
100	QPSK	1	1		21.11				
100	QPSK	1	137		20.96		22.4	0.0	
100	QPSK	1	271		20.94				
100	QPSK	135	0		19.93		21.4	1.0	
100	QPSK	135	69		21.07		22.4	0.0	
100	QPSK	135	138		20.00		21.4	1.0	
100	QPSK	270	0		19.92				
100	16QAM	1	1		19.47		21.4	1.0	
100	64QAM	1	1		17.98		18.9	2.5	
100	256QAM	1	1		16.35		17.9	4.5	
Channel				63360	63334	63368	Tune-up limit	MPR	
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1		21.01	21.00	20.98	22.4	0.0
Channel				63268	63334	63400	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1		21.09	21.07	20.99	22.4	0.0
Channel				63234	63334	63434	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1		20.97	20.97	21.04	22.4	0.0
Channel				63200	63334	63468	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1		20.98	20.96	20.95	22.4	0.0
Channel				63168	63334	63500	Tune-up limit	MPR	
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1		21.00	21.01	20.96	22.4	0.0
Channel				63134	63334	63534	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		20.98	20.95	20.97	22.4	0.0
Channel				63100	63334	63568	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1		20.99	21.02	20.97	22.4	0.0
Channel				63068	63334	63584	Tune-up limit	MPR	
Frequency (MHz)				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1		21.01	21.02	20.98	22.4	0.0
Channel				63068	63334	63600	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		20.98	20.98	20.95	22.4	0.0
Channel				63060	63334	63618	Tune-up limit	MPR	
Frequency (MHz)				3457.5	3500.01	3542.52	(dBm)	(dB)	
15	QPSK	1	1		20.98	20.98	20.97	22.4	0.0
Channel				63034	63334	63634	Tune-up limit	MPR	
Frequency (MHz)				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1		21.04	21.05	21.00	22.4	0.0



**Reduced Power Level for 5GNR  
ECI2**

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									
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	23.68	23.83	23.65			
40	PI2 BPSK	1	108	23.70	23.79	23.74	24.0	0.0	
40	PI2 BPSK	1	214	23.54	23.74	23.63			
40	PI2 BPSK	108	0	23.91	23.44	23.30	23.5	0.5	
40	PI2 BPSK	108	54	23.74	23.89	23.73	24.0	0.0	
40	PI2 BPSK	108	108	23.05	23.19	23.05	23.5	0.5	
40	PI2 BPSK	216	0	23.12	23.23	23.17			
40	QPSK	1	1	23.83	23.92	23.89			
40	QPSK	1	108	23.74	23.89	23.79	24.0	0.0	
40	QPSK	1	214	23.70	23.78	23.67			
40	QPSK	108	0	22.75	22.87	22.83	23.0	1.0	
40	QPSK	108	54	23.76	23.84	23.75	24.0	0.0	
40	QPSK	108	108	22.58	22.73	22.67	23.0	1.0	
40	QPSK	216	0	22.74	22.83	22.74			
40	16QAM	1	1	22.46	22.64	22.37	23.0	1.0	
40	64QAM	1	1	21.43	20.55	21.40	21.5	2.5	
40	256QAM	1	1	19.05	19.14	18.92	19.5	4.5	
Channel									
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	23.78	23.80	23.83	24.0	0.0	
Channel									
Frequency (MHz)				372500	376000	379500			
25	QPSK	1	1	1822.5	1830	1827.5	24.0	0.0	
Channel									
Frequency (MHz)				372000	376000	380000			
20	QPSK	1	1	23.78	23.81	23.78	24.0	0.0	
Channel									
Frequency (MHz)				371500	376000	380500			
15	QPSK	1	1	23.73	23.84	23.71	24.0	0.0	
Channel									
Frequency (MHz)				1825	1860	1905			
10	QPSK	1	1	23.77	23.87	23.82	24.0	0.0	
Channel									
Frequency (MHz)				1825.5	1880	1907.5			
5	QPSK	1	1	23.70	23.76	23.68	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									
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	22.72	22.82	22.78			
20	PI2 BPSK	1	53	22.78	22.92	22.84	24.0	0.0	
20	PI2 BPSK	1	104	22.79	22.86	22.80			
20	PI2 BPSK	50	0	22.20	22.26	22.18	23.5	0.5	
20	PI2 BPSK	50	28	22.72	22.83	22.79	24.0	0.0	
20	PI2 BPSK	50	56	22.29	22.44	22.40			
20	PI2 BPSK	100	0	22.21	22.29	22.24	23.5	0.5	
20	QPSK	1	1	22.79	23.11	22.84			
20	QPSK	1	53	22.92	22.96	22.89	24.0	0.0	
20	QPSK	1	104	22.88	22.81	22.73			
20	QPSK	50	0	21.79	21.87	21.73	23.0	1.0	
20	QPSK	50	28	22.70	22.79	22.71	24.0	0.0	
20	QPSK	50	56	21.82	21.90	21.77			
20	QPSK	100	0	21.68	21.77	21.61	23.0	1.0	
20	16QAM	1	1	21.43	21.46	21.55	23.0	1.0	
20	64QAM	1	1	19.99	20.01	20.02	21.5	2.5	
20	256QAM	1	1	18.89	18.87	18.93	19.5	4.5	
Channel									
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.64	22.77	22.63	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
10	QPSK	1	1	1823	1825.5	1826	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300			
5	QPSK	1	1	22.72	22.80	22.75	24.0	0.0	

n66 Ant0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.40	23.89	23.48			
40	PI2 BPSK	1	108	23.49	23.58	23.43	24.5	0.0	
40	PI2 BPSK	1	214	23.59	23.84	23.56			
40	PI2 BPSK	108	0	22.96	23.08	23.01	24.0	0.5	
40	PI2 BPSK	108	54	23.45	23.52	23.38	24.5	0.0	
40	PI2 BPSK	108	108	22.91	23.03	22.91	24.0	0.5	
40	PI2 BPSK	216	0	22.84	22.99	22.88			
40	QPSK	1	1	23.45	23.73	23.53			
40	QPSK	1	108	23.56	23.82	23.48	24.5	0.0	
40	QPSK	1	214	23.50	23.60	23.55			
40	QPSK	108	0	22.59	22.66	22.51	23.5	1.0	
40	QPSK	108	54	23.39	23.53	23.48	24.5	0.0	
40	QPSK	108	108	22.45	22.50	22.44	23.5	1.0	
40	QPSK	216	0	22.49	22.54	22.43			
40	16QAM	1	1	22.14	22.50	22.37	23.5	1.0	
40	64QAM	1	1	20.92	21.18	21.06	22.0	2.5	
40	256QAM	1	1	19.61	19.74	19.68	20.0	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	24.40	24.68	24.40	24.5	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	1722.5	1745	1727.5	24.5	0.0	
Channel									
Frequency (MHz)				344000	349000	349000			
20	QPSK	1	1	24.37	24.63	24.37	24.5	0.0	
Channel									
Frequency (MHz)				343500	349000	350500			
15	QPSK	1	1	24.32	24.61	24.41	24.5	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	24.38	24.67	24.48	24.5	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	24.40	24.59	24.39	24.5	0.0	



n2 Ant1 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				372500	373000	373500			
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	15.84	15.96	15.91			
40	PI2 BPSK	1	108	15.83	16.00	15.85		0.0	
40	PI2 BPSK	1	214	15.75	15.84	15.77		0.0	
40	PI2 BPSK	108	0	15.99	16.12	16.09	17.1	0.0	
40	PI2 BPSK	108	54	16.04	16.14	16.08	17.1	0.0	
40	PI2 BPSK	108	108	15.94	16.05	15.97	17.1	0.0	
40	PI2 BPSK	216	0	15.94	16.14	15.98			
40	QPSK	1	1	16.03	16.18	16.09			
40	QPSK	1	108	15.95	16.03	15.98	17.1	0.0	
40	QPSK	1	214	15.78	16.05	15.81			
40	QPSK	108	0	15.97	16.00	15.99	17.1	0.0	
40	QPSK	108	54	15.88	16.01	16.00	17.1	0.0	
40	QPSK	108	108	15.93	16.00	15.92	17.1	0.0	
40	QPSK	216	0	15.91	15.98	15.92			
40	16QAM	1	1	15.73	15.83	15.63	17.1	0.0	
40	16QAM	1	1	15.76	15.86	15.77	17.1	0.0	
40	25QAM	1	1	15.89	16.02	15.83	17.1	0.0	
Channel				372000	372500	373000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	16.01	15.97	15.99	17.1	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1892.5	1900	1897.5			
25	QPSK	1	1	15.90	15.99	16.03	17.1	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	15.81	16.11	16.01	17.1	0.0	
Channel				371500	372000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.72	15.87	15.77	17.1	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1890	1905			
10	QPSK	1	1	15.77	15.83	15.78	17.1	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	15.72	15.88	15.76	17.1	0.0	

n5 Ant1 EC12									
BW (MHz)	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	838			
20	PI2 BPSK	1	1	20.38	20.51	20.48			
20	PI2 BPSK	1	53	20.34	20.45	20.33	21.7	0.0	
20	PI2 BPSK	1	104	20.36	20.54	20.48			
20	PI2 BPSK	50	0	20.30	20.44	20.34	21.7	0.0	
20	PI2 BPSK	50	28	20.40	20.48	20.35			
20	PI2 BPSK	50	56	20.54	20.67	20.61	21.7	0.0	
20	PI2 BPSK	100	0	20.42	20.49	20.41			
20	QPSK	1	1	20.68	20.77	20.62			
20	QPSK	1	53	20.41	20.50	20.45	21.7	0.0	
20	QPSK	1	104	20.32	20.45	20.37			
20	QPSK	50	0	20.27	20.43	20.38	21.7	0.0	
20	QPSK	50	28	20.64	20.74	20.61	21.7	0.0	
20	QPSK	50	56	20.45	20.53	20.38	21.7	0.0	
20	QPSK	100	0	20.55	20.61	20.49			
20	16QAM	1	1	20.52	20.59	20.43	21.7	0.0	
20	16QAM	1	1	20.53	20.62	20.47	21.7	0.0	
20	25QAM	1	1	18.96	19.06	19.01	18.7	2.0	
Channel				166300	167000	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	20.57	20.72	20.54	21.7	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	20.60	20.68	20.53	21.7	0.0	
Channel				166300	167000	169000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	20.61	20.66	20.47	21.7	0.0	

n66 Ant1 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.46	15.57	15.49			
40	PI2 BPSK	1	108	15.49	15.63	15.44	16.8	0.0	
40	PI2 BPSK	1	214	15.38	15.51	15.44			
40	PI2 BPSK	108	0	15.53	15.77	15.62	16.8	0.0	
40	PI2 BPSK	108	54	15.66	15.80	15.66	16.8	0.0	
40	PI2 BPSK	108	108	15.57	15.63	15.54	16.8	0.0	
40	PI2 BPSK	216	0	15.58	15.71	15.54			
40	QPSK	1	1	15.61	15.81	15.72			
40	QPSK	1	108	15.51	15.63	15.59	16.8	0.0	
40	QPSK	1	214	15.38	15.52	15.49			
40	QPSK	108	0	15.62	15.60	15.53	16.8	0.0	
40	QPSK	108	54	15.57	15.68	15.63	16.8	0.0	
40	QPSK	108	108	15.45	15.59	15.46	16.8	0.0	
40	QPSK	216	0	15.58	15.65	15.60			
40	16QAM	1	1	15.36	15.42	15.23	16.8	0.0	
40	16QAM	1	1	15.40	15.46	15.28	16.8	0.0	
40	25QAM	1	1	15.53	15.59	15.50	16.8	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.53	15.60	15.57	16.8	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	15.54	15.59	15.56	16.8	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.58	15.58	15.57	16.8	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.54	15.62	15.54	16.8	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.56	15.61	15.53	16.8	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.52	15.62	15.54	16.8	0.0	



n48 Ant3 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638300	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	18.92	18.93	18.98			
40	PI2 BPSK	1	53	18.71	18.86	18.78		0.0	
40	PI2 BPSK	1	104	18.62	18.88	18.59			
40	PI2 BPSK	50	0	18.82	18.90	18.78	19.9	0.0	
40	PI2 BPSK	50	28	18.66	18.81	18.67	19.9	0.0	
40	PI2 BPSK	50	58	18.57	18.67	18.53	19.9	0.0	
40	PI2 BPSK	100	0	18.67	18.78	18.65			
40	QPSK	1	1	18.05	18.11	18.86			
40	QPSK	1	53	18.77	18.89	18.83	19.9	0.0	
40	QPSK	1	104	18.60	18.73	18.66			
40	QPSK	50	0	18.78	18.84	18.62	19.9	0.0	
40	QPSK	50	28	18.79	18.85	18.72	19.9	0.0	
40	QPSK	50	58	18.50	18.59	18.51	19.9	0.0	
40	QPSK	100	0	18.79	18.84	18.79			
40	16QAM	1	1	18.68	18.79	18.73	19.9	0.0	
40	16QAM	1	1	18.75	18.84	18.79	19.9	0.0	
40	256QAM	1	1	18.84	18.91	18.81	19.4	0.5	
Channel				637868	641666	645500			
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	18.96	18.98	18.82	19.9	0.0	
Channel				637334	641666	646000			
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	18.53	18.60	18.82	19.9	0.0	
Channel				637168	641666	646166			
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	18.75	18.86	18.85	19.9	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	18.94	18.96	18.90	19.9	0.0	

Par270 n77_FCC PC2&PC3 Ant3 EC12									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	17.25	17.23	17.21			
100	PI2 BPSK	1	137	17.18	17.22	17.01	18.3	0.0	
100	PI2 BPSK	1	271	17.14	17.27	17.09			
100	PI2 BPSK	135	0	17.05	17.22	17.09	18.3	0.0	
100	PI2 BPSK	135	69	17.16	17.14	17.02	18.3	0.0	
100	PI2 BPSK	135	138	17.13	17.20	17.11	18.3	0.0	
100	PI2 BPSK	270	0	17.20	17.23	17.10			
100	QPSK	1	1	17.24	17.31	17.04			
100	QPSK	1	137	17.13	17.27	17.01	18.3	0.0	
100	QPSK	1	271	16.96	17.16	16.96			
100	QPSK	135	0	17.21	17.17	16.98	18.3	0.0	
100	QPSK	135	69	17.12	17.27	17.13	18.3	0.0	
100	QPSK	135	138	17.04	17.11	17.12	18.3	0.0	
100	QPSK	270	0	17.22	17.25	16.92			
100	16QAM	1	1	17.30	17.26	16.90	18.3	0.0	
100	16QAM	1	1	17.27	17.24	16.96	18.3	0.0	
100	256QAM	1	1	17.03	17.03	17.23	18.3	0.0	
Channel				649868	650000	652334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.20	17.19	16.93	18.3	0.0	
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.09	17.22	16.90	18.3	0.0	
Channel				649000	650000	653000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.11	17.23	16.90	18.3	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.11	17.25	16.98	18.3	0.0	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.13	17.18	16.95	18.3	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.18	17.17	16.91	18.3	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.17	17.18	16.90	18.3	0.0	
Channel				647000	650000	664500			
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.09	17.15	16.89	18.3	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.18	17.17	16.91	18.3	0.0	
Channel				647168	650000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.13	17.23	16.95	18.3	0.0	
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.15	17.16	16.96	18.3	0.0	

Par27Q n77_FCC PC2&PC3 Ant3 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1				17.27		
100	PI2 BPSK	1	137				17.30	0.0	
100	PI2 BPSK	1	271				17.31		
100	PI2 BPSK	135	0				17.33	0.0	
100	PI2 BPSK	135	69				17.27	0.0	
100	PI2 BPSK	135	138				17.26	0.0	
100	PI2 BPSK	270	0				17.32		
100	QPSK	1	1				17.41		
100	QPSK	1	137				17.36	0.0	
100	QPSK	1	271				17.25		
100	QPSK	135	0				17.30	0.0	
100	QPSK	135	69				17.33	0.0	
100	QPSK	135	138				17.18	0.0	
100	QPSK	270	0				17.29	0.0	
100	16QAM	1	1				17.29	0.0	
100	16QAM	1	1				17.37	0.0	
100	256QAM	1	1				17.10	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.29	17.37	17.26	18.3	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.22	17.30	17.20	18.3	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.34	17.35	17.36	18.3	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	17.33	17.25	17.34	18.3	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.28	17.29	17.29	18.3	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.34	17.31	17.28	18.3	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.25	17.27	17.31	18.3	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	17.33	17.25	17.34	18.3	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.35	17.30	17.29	18.3	0.0	
Channel				630000	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	17.34	17.26	17.34	18.3	0.0	
Channel				630000	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.30	17.33	17.25	18.3	0.0	



Part270 n78_FCC PC3 Ant3 EC12									
BW (MHz)	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	17.10	17.10	17.10			
100	PI2 BPSK	1	137	17.11	17.11	17.11	18.3	0.0	
100	PI2 BPSK	1	271	17.22	17.22	17.22	18.3	0.0	
100	PI2 BPSK	135	0	17.12	17.12	17.12	18.3	0.0	
100	PI2 BPSK	135	69	17.10	17.10	17.10	18.3	0.0	
100	PI2 BPSK	135	138	17.13	17.13	17.13	18.3	0.0	
100	PI2 BPSK	270	0	17.14	17.14	17.14	18.3	0.0	
100	QPSK	1	1	17.28	17.28	17.28	18.3	0.0	
100	QPSK	1	137	17.18	17.18	17.18	18.3	0.0	
100	QPSK	1	271	17.03	17.03	17.03	18.3	0.0	
100	QPSK	135	0	17.20	17.20	17.20	18.3	0.0	
100	QPSK	135	69	17.09	17.09	17.09	18.3	0.0	
100	QPSK	135	138	17.00	17.00	17.00	18.3	0.0	
100	QPSK	270	0	17.12	17.12	17.12	18.3	0.0	
100	16QAM	1	1	17.15	17.15	17.15	18.3	0.0	
100	16QAM	1	1	17.19	17.19	17.19	18.3	0.0	
100	256QAM	1	1	18.01	18.01	18.01	18.3	0.0	
Channel				649868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	17.19	17.14	17.22	18.3	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	17.15	17.16	17.12	18.3	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	17.23	17.18	17.18	18.3	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	17.22	17.12	17.15	18.3	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	17.14	17.13	17.21	18.3	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	17.18	17.23	17.17	18.3	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3785.01			
30	QPSK	1	1	17.15	17.13	17.21	18.3	0.0	
Channel				647500	650000	652500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3787.5			
25	QPSK	1	1	17.18	17.17	17.23	18.3	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02			
20	QPSK	1	1	17.15	17.21	17.17	18.3	0.0	
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3792.51			
15	QPSK	1	1	17.21	17.14	17.20	18.3	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	17.21	17.20	17.12	18.3	0.0	

Part27Q 78_FCC PC3 Ant3									
BW (MHz)	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	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	17.04	17.04	17.04			
100	PI2 BPSK	1	137	16.96	16.96	16.96	18.3	0.0	
100	PI2 BPSK	1	271	17.12	17.12	17.12	18.3	0.0	
100	PI2 BPSK	135	0	16.97	16.97	16.97	18.3	0.0	
100	PI2 BPSK	135	69	17.01	17.01	17.01	18.3	0.0	
100	PI2 BPSK	135	138	17.00	17.00	17.00	18.3	0.0	
100	PI2 BPSK	270	0	17.08	17.08	17.08	18.3	0.0	
100	QPSK	1	1	17.14	17.14	17.14	18.3	0.0	
100	QPSK	1	137	17.10	17.10	17.10	18.3	0.0	
100	QPSK	1	271	16.98	16.98	16.98	18.3	0.0	
100	QPSK	135	0	17.08	17.08	17.08	18.3	0.0	
100	QPSK	135	69	17.05	17.05	17.05	18.3	0.0	
100	QPSK	135	138	16.97	16.97	16.97	18.3	0.0	
100	QPSK	270	0	17.04	17.04	17.04	18.3	0.0	
100	16QAM	1	1	17.01	17.01	17.01	18.3	0.0	
100	16QAM	1	1	17.08	17.08	17.08	18.3	0.0	
100	256QAM	1	1	18.00	18.00	18.00	18.3	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.04	17.09	17.05	18.3	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.01	17.00	17.10	18.3	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.09	16.99	17.01	18.3	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.98	17.04	17.03	18.3	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.08	17.08	17.02	18.3	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.09	17.07	17.08	18.3	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.10	17.00	17.04	18.3	0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	17.09	17.08	17.05	18.3	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.00	17.00	17.10	18.3	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	17.08	17.03	16.99	18.3	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.08	17.09	17.00	18.3	0.0	





n48 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	22.23	22.29	22.16			
40	PI2 BPSK	1	53	22.26	22.31	22.26		0.0	
40	PI2 BPSK	1	104	21.97	22.04	21.98			
40	PI2 BPSK	50	0	21.85	21.71	21.85	23.4	0.5	
40	PI2 BPSK	50	28	22.20	22.24	22.14	23.4	0.0	
40	PI2 BPSK	50	58	21.41	21.47	21.32	23.4	0.5	
40	PI2 BPSK	100	0	21.51	21.84	21.57			
40	QPSK	1	1	22.25	22.34	22.20			
40	QPSK	1	53	22.23	22.27	22.12	23.4	0.0	
40	QPSK	1	104	21.77	21.92	21.85			
40	QPSK	50	0	21.06	21.21	21.08	22.4	1.0	
40	QPSK	50	28	22.03	22.18	22.06	23.4	0.0	
40	QPSK	50	58	20.85	20.98	20.88	22.4	1.0	
40	QPSK	100	0	21.05	21.17	21.03			
40	16QAM	1	1	20.98	21.08	21.03	22.4	1.0	
40	16QAM	1	1	19.52	19.66	19.53	20.9	2.5	
40	256QAM	1	1	18.21	18.25	18.16	18.9	4.5	
Channel				637666	641666	645000			
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	22.12	22.29	22.15	23.4	0.0	
Channel				637334	641666	646000			
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	22.14	22.20	22.13	23.4	0.0	
Channel				637168	641666	646166			
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	22.25	22.36	22.35	23.4	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	22.15	22.21	22.12	23.4	0.0	

Par270 n77_FCC PC2&PC3 Ant4 EC12									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	19.94	20.03	19.88			
100	PI2 BPSK	1	137	19.85	20.01	19.92		0.0	
100	PI2 BPSK	1	271	19.71	19.81	19.71			
100	PI2 BPSK	135	0	19.88	20.07	20.01	21.2	0.0	
100	PI2 BPSK	135	69	20.05	20.09	19.96	21.2	0.0	
100	PI2 BPSK	135	138	19.79	19.93	19.85	21.2	0.0	
100	PI2 BPSK	270	0	19.89	20.07	19.92			
100	QPSK	1	1	20.08	20.14	20.00			
100	QPSK	1	137	19.90	19.97	19.89	21.2	0.0	
100	QPSK	1	271	19.74	19.86	19.81			
100	QPSK	135	0	19.90	19.96	19.89	21.2	0.0	
100	QPSK	135	69	20.05	20.11	20.07	21.2	0.0	
100	QPSK	135	138	19.77	19.93	19.83	21.2	0.0	
100	QPSK	270	0	19.85	20.03	19.96			
100	16QAM	1	1	19.77	19.84	19.78	21.2	0.0	
100	16QAM	1	1	19.78	19.91	19.80	21.2	0.0	
100	256QAM	1	1	19.85	19.96	19.83	21.2	0.0	
Channel				645668	650000	652334			
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	19.99	20.03	19.94	21.2	0.0	
Channel				649334	650000	662668			
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	20.02	20.00	19.90	21.2	0.0	
Channel				649000	650000	653000			
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	20.03	20.10	19.94	21.2	0.0	
Channel				648668	650000	663334			
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	19.98	19.98	19.90	21.2	0.0	
Channel				648334	650000	663668			
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	19.99	20.00	19.95	21.2	0.0	
Channel				648000	650000	664000			
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	20.02	20.07	19.84	21.2	0.0	
Channel				647668	650000	664334			
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	20.09	19.99	19.91	21.2	0.0	
Channel				647500	650000	664500			
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	20.04	20.07	19.89	21.2	0.0	
Channel				647334	650000	664668			
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	19.97	20.04	19.90	21.2	0.0	
Channel				647168	650000	664834			
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	19.98	19.98	19.90	21.2	0.0	
Channel				647000	650000	665000			
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	20.04	20.05	19.92	21.2	0.0	

Part27Q n77_FCC PC2&PC3 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633000			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		20.01				
100	PI2 BPSK	1	137		20.22		21.2	0.0	
100	PI2 BPSK	1	271		20.30				
100	PI2 BPSK	135	0		20.14		21.2	0.0	
100	PI2 BPSK	135	69		20.29		21.2	0.0	
100	PI2 BPSK	135	138		20.31		21.2	0.0	
100	PI2 BPSK	270	0		20.32				
100	QPSK	1	1		20.36				
100	QPSK	1	137		20.18		21.2	0.0	
100	QPSK	1	271		20.27				
100	QPSK	135	0		20.20		21.2	0.0	
100	QPSK	135	69		20.35		21.2	0.0	
100	QPSK	135	138		20.28		21.2	0.0	
100	QPSK	270	0		20.32				
100	16QAM	1	1		19.86		21.2	0.0	
100	16QAM	1	1		19.91		21.2	0.0	
100	256QAM	1	1		20.08		21.2	0.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	20.22	20.26	20.31	21.2	0.0	
Channel				632668	633334	634000			
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	20.29	20.30	20.32	21.2	0.0	
Channel				632334	633334	634334			
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	20.19	20.24	20.22	21.2	0.0	
Channel				632000	633334	634668			
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	20.23	20.28	20.27	21.2	0.0	
Channel				631668	633334	635000			
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	20.30	20.22	20.21	21.2	0.0	
Channel				631334	633334	635334			
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	20.27	20.23	20.24	21.2	0.0	
Channel				631000	633334	635668			
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	20.31	20.31	20.25	21.2	0.0	
Channel				630834	633334	635834			
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	20.30	20.25	20.25	21.2	0.0	
Channel				630668	633334	636000			
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	20.28	20.30	20.20	21.2	0.0	
Channel				630500	633334	636168			
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	20.19	20.27	20.21	21.2	0.0	
Channel				630334	633334	636334			
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	20.11	20.20	20.23	21.2	0.0	



Part270 n78_FCC PC3 Ant4 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.99	3750	3750			
100	PI2 BPSK	1	137	19.96					0.0
100	PI2 BPSK	1	271	19.83					
100	PI2 BPSK	135	0	20.04			21.2	0.0	
100	PI2 BPSK	135	69	20.00			21.2	0.0	
100	PI2 BPSK	135	138	19.89			21.2	0.0	
100	PI2 BPSK	270	0	20.03					
100	QPSK	1	1	20.08					
100	QPSK	1	137	19.91			21.2	0.0	
100	QPSK	1	271	19.83					
100	QPSK	135	0	19.99			21.2	0.0	
100	QPSK	135	69	20.04			21.2	0.0	
100	QPSK	135	138	19.92					
100	QPSK	270	0	19.97					
100	16QAM	1	1	19.89			21.2	0.0	
100	64QAM	1	1	18.72			20.2	1.0	
100	256QAM	1	1	17.34			18.2	3.0	
Channel									
Frequency (MHz)									
648688	650000	650334							
3745.02	3750	3755.01							
90	QPSK	1	1	19.95	19.96	20.00	21.2	0.0	
Channel									
Frequency (MHz)									
649334	650000	650668							
3740.01	3750	3760.02							
80	QPSK	1	1	19.93	20.02	19.90	21.2	0.0	
Channel									
Frequency (MHz)									
649000	650000	651000							
3735	3750	3765							
70	QPSK	1	1	19.94	19.95	19.94	21.2	0.0	
Channel									
Frequency (MHz)									
648668	650000	651334							
3730.02	3750	3740.01							
60	QPSK	1	1	20.01	20.00	20.03	21.2	0.0	
Channel									
Frequency (MHz)									
648334	650000	651668							
3725.01	3750	3735.02							
50	QPSK	1	1	19.93	19.93	19.96	21.2	0.0	
Channel									
Frequency (MHz)									
647800	650000	652000							
3720	3750	3780							
40	QPSK	1	1	19.98	20.01	19.95	21.2	0.0	
Channel									
Frequency (MHz)									
647668	650000	652334							
3715.02	3750	3765.01							
30	QPSK	1	1	19.99	19.97	20.02	21.2	0.0	
Channel									
Frequency (MHz)									
647500	650000	652500							
3712.5	3750	3767.5							
25	QPSK	1	1	19.96	20.01	20.04	21.2	0.0	
Channel									
Frequency (MHz)									
647334	650000	652668							
3710.01	3750	3760.02							
20	QPSK	1	1	20.03	19.98	20.02	21.2	0.0	
Channel									
Frequency (MHz)									
647168	650000	652834							
3707.52	3750	3762.51							
15	QPSK	1	1	19.93	19.99	19.98	21.2	0.0	
Channel									
Frequency (MHz)									
647000	650000	653000							
3705	3750	3795							
10	QPSK	1	1	19.96	20.03	20.00	21.2	0.0	

Part27Q 78_FCC PC3 Ant4 EC12									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		20.14				0.0
100	PI2 BPSK	1	271		20.23				
100	PI2 BPSK	135	0		20.17		21.2	0.0	
100	PI2 BPSK	135	69		20.26		21.2	0.0	
100	PI2 BPSK	135	138		20.22		21.2	0.0	
100	PI2 BPSK	270	0		20.23				
100	QPSK	1	1		20.29				
100	QPSK	1	137		20.20		21.2	0.0	
100	QPSK	1	271		20.23				
100	QPSK	135	0		20.19		21.2	0.0	
100	QPSK	135	69		20.27		21.2	0.0	
100	QPSK	135	138		20.16				
100	QPSK	270	0		20.24		21.2	0.0	
100	16QAM	1	1		19.85		21.2	0.0	
100	64QAM	1	1		18.77		20.2	1.0	
100	256QAM	1	1		17.38		18.2	3.0	
Channel									
Frequency (MHz)									
633000	633334	633668							
3495	3500.01	3505.02							
90	QPSK	1	1	20.16	20.24	20.16	21.2	0.0	
Channel									
Frequency (MHz)									
632668	633334	634000							
3490.02	3500.01	3510							
80	QPSK	1	1	20.20	20.16	20.21	21.2	0.0	
Channel									
Frequency (MHz)									
632334	633334	634334							
3486.01	3500.01	3515.01							
70	QPSK	1	1	20.16	20.21	20.25	21.2	0.0	
Channel									
Frequency (MHz)									
632000	633334	634668							
3480	3500.01	3520.02							
60	QPSK	1	1	20.16	20.20	20.14	21.2	0.0	
Channel									
Frequency (MHz)									
631668	633334	635000							
3475.02	3500.01	3525							
50	QPSK	1	1	20.18	20.17	20.20	21.2	0.0	
Channel									
Frequency (MHz)									
631334	633334	635334							
3470.01	3500.01	3530.01							
40	QPSK	1	1	20.14	20.13	20.15	21.2	0.0	
Channel									
Frequency (MHz)									
631000	633334	635668							
3465	3500.01	3535.02							
30	QPSK	1	1	20.14	20.17	20.21	21.2	0.0	
Channel									
Frequency (MHz)									
630668	633334	635934							
3462.51	3500.01	3537.51							
25	QPSK	1	1	20.19	20.24	20.19	21.2	0.0	
Channel									
Frequency (MHz)									
630334	633334	636000							
3460.02	3500.01	3540							
20	QPSK	1	1	20.14	20.14	20.16	21.2	0.0	
Channel									
Frequency (MHz)									
630000	633334	636168							
3457.5	3500.01	3542.52							
15	QPSK	1	1	20.25	20.24	20.15	21.2	0.0	
Channel									
Frequency (MHz)									
629668	633334	636334							
3455.01	3500.01	3545.01							
10	QPSK	1	1	20.22	20.22	20.13	21.2	0.0	



n48 Ant5 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.12	23.16	23.02			
40	PI2 BPSK	1	53	23.07	23.18	23.03	24.0	0.0	
40	PI2 BPSK	1	104	23.00	23.06	22.95			
40	PI2 BPSK	50	0	22.81	22.71	22.60	23.5	0.5	
40	PI2 BPSK	50	28	23.07	23.11	23.02	24.0	0.0	
40	PI2 BPSK	50	56	22.95	22.42	22.31			
40	PI2 BPSK	100	0	22.79	22.89	22.83	23.5	0.5	
40	QPSK	1	1	23.16	23.19	23.10			
40	QPSK	1	53	23.02	23.05	22.94	24.0	0.0	
40	QPSK	1	104	22.93	22.98	22.90			
40	QPSK	50	0	22.06	22.16	22.06	23.0	1.0	
40	QPSK	50	28	23.06	23.13	23.07	24.0	0.0	
40	QPSK	50	56	22.95	22.01	23.0	23.0	1.0	
40	QPSK	100	0	22.06	22.11	21.87			
40	16QAM	1	1	21.79	21.90	21.87	23.0	1.0	
40	16QAM	1	1	20.38	20.51	20.39	21.5	2.5	
40	256QAM	1	1	18.83	18.92	18.73	19.5	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.14	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.05	23.15	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.11	23.06	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.03	23.15	23.02	24.0	0.0	

Par270 n77_FCC PC3 Ant5 EC12									
BW (MHz)	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	22.86	22.86	22.84			
100	PI2 BPSK	1	137	22.59	22.74	22.59	24.0	0.0	
100	PI2 BPSK	1	271	22.71	22.85	22.70			
100	PI2 BPSK	135	0	22.81	22.84	22.83	24.0	0.0	
100	PI2 BPSK	135	69	22.78	22.80	22.72	24.0	0.0	
100	PI2 BPSK	135	138	22.85	22.76	22.65	24.0	0.0	
100	PI2 BPSK	270	0	22.66	22.75	22.65			
100	QPSK	1	1	22.89	23.01	22.90			
100	QPSK	1	137	22.86	22.96	22.78	24.0	0.0	
100	QPSK	1	271	22.65	22.74	22.64			
100	QPSK	135	0	22.79	22.85	22.80	24.0	0.0	
100	QPSK	135	69	22.85	22.98	22.88	24.0	0.0	
100	QPSK	135	138	22.94	22.70	22.59	24.0	0.0	
100	QPSK	270	0	22.66	22.81	22.67			
100	16QAM	1	1	22.71	22.84	22.74	24.0	0.0	
100	16QAM	1	1	22.69	22.83	22.72	24.0	0.0	
100	256QAM	1	1	21.44	21.52	21.47	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.86	22.96	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.90	22.90	22.79	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.87	22.84	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.91	22.95	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.89	22.97	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.88	22.93	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.86	22.89	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.88	22.90	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.82	22.87	22.76	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.83	22.90	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.87	22.95	22.82	24.0	0.0	

Par270 n77_FCC PC2 Ant5 EC12									
BW (MHz)	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	25.89	25.88	25.89			
100	PI2 BPSK	1	137	25.93	26.06	25.92	27.0	0.0	
100	PI2 BPSK	1	271	25.85	25.84	25.85			
100	PI2 BPSK	135	0	25.83	25.86	25.83	26.5	0.5	
100	PI2 BPSK	135	69	25.83	25.86	25.88	27.0	0.0	
100	PI2 BPSK	135	138	25.48	25.57	25.47	26.5	0.5	
100	PI2 BPSK	270	0	25.46	25.61	25.46			
100	QPSK	1	1	25.93	26.08	25.95			
100	QPSK	1	137	25.80	25.95	25.80	27.0	0.0	
100	QPSK	1	271	25.89	26.03	25.89			
100	QPSK	135	0	24.97	25.08	24.95	26.0	1.0	
100	QPSK	135	69	25.95	26.04	25.94	27.0	0.0	
100	QPSK	135	138	24.88	24.98	24.85	26.0	1.0	
100	QPSK	270	0	24.85	25.00	24.80			
100	16QAM	1	1	24.48	24.58	24.47	26.0	1.0	
100	16QAM	1	1	23.00	23.12	22.98	24.5	2.5	
100	256QAM	1	1	21.96	21.66	21.91	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.96	25.96	25.99	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.94	26.00	26.03	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	26.00	25.85	25.89	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.97	26.01	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.99	25.94	26.00	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.00	25.97	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.02	26.00	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	26.00	25.95	25.93	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.02	26.03	25.99	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	26.01	26.02	25.98	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	26.00	26.00	26.05	27.0	0.0	



Part27Q n77_FCC PC3 Ant5 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Midsize 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		23.05				
100	Pi2 BPSK	1	271		22.90		24.0	0.0	
100	Pi2 BPSK	1	271		23.00				
100	Pi2 BPSK	135	0		22.84		24.0	0.0	
100	Pi2 BPSK	135	69		22.93		24.0	0.0	
100	Pi2 BPSK	135	138		22.97		24.0	0.0	
100	Pi2 BPSK	270	0		22.85		24.0	0.0	
100	QPSK	1	1		23.11				
100	QPSK	1	137		23.04		24.0	0.0	
100	QPSK	1	271		23.06				
100	QPSK	135	0		22.99		24.0	0.0	
100	QPSK	135	69		23.07		24.0	0.0	
100	QPSK	135	138		22.94		24.0	0.0	
100	QPSK	270	0		23.11		24.0	0.0	
100	16QAM	1	1		23.03		24.0	0.0	
100	64QAM	1	1		22.83		24.0	0.0	
100	256QAM	1	1		21.53		22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit	MPR	
				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	22.98	23.08	23.00	24.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit	MPR	
				3498.02	3500.01	3502	(dBm)	(dB)	
80	QPSK	1	1	22.90	22.99	22.86	24.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit	MPR	
				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	22.94	22.97	22.77	24.0	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit	MPR	
				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	22.87	22.99	22.86	24.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit	MPR	
				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	23.07	23.05	22.98	24.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	Tune-up limit	MPR	
				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	23.01	23.07	22.99	24.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit	MPR	
				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	22.92	23.03	22.89	24.0	0.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	630551	633334	635951	Tune-up limit	MPR	
				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1	23.00	23.03	22.98	24.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	630000	633334	636000	Tune-up limit	MPR	
				3460.00	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	22.83	22.98	22.94	24.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	630000	633334	636168	Tune-up limit	MPR	
				3457.5	3500.01	3542.5	(dBm)	(dB)	
15	QPSK	1	1	22.94	23.08	23.01	24.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	Tune-up limit	MPR	
				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	22.92	23.02	22.93	24.0	0.0	0.0

Part27Q n77_FCC PC2 Ant5 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Midsize 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		25.78				
100	Pi2 BPSK	1	271		25.72		27.0	0.0	
100	Pi2 BPSK	135	0		25.32		26.5	0.5	
100	Pi2 BPSK	135	69		25.69		27.0	0.0	
100	Pi2 BPSK	135	138		25.24		26.5	0.5	
100	Pi2 BPSK	270	0		25.44		26.4	0.0	
100	QPSK	1	1		26.04				
100	QPSK	1	137		25.86		27.0	0.0	
100	QPSK	1	271		25.88				
100	QPSK	135	0		25.12		26.0	1.0	
100	QPSK	135	69		25.97		27.0	0.0	
100	QPSK	135	138		24.94		26.0	1.0	
100	QPSK	270	0		24.96		24.5	1.0	
100	16QAM	1	1		24.94		24.5	1.0	
100	64QAM	1	1		23.48		23.5	2.5	
100	256QAM	1	1		21.54		22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit	MPR	
				3495	3500.01	3505.02	(dBm)	(dB)	
90	QPSK	1	1	25.90	26.01	25.93	27.0	0.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit	MPR	
				3498.02	3500.01	3502	(dBm)	(dB)	
80	QPSK	1	1	25.87	25.92	25.92	27.0	0.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	632334	633334	634334	Tune-up limit	MPR	
				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	25.82	25.82	25.91	27.0	0.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	632000	633334	634668	Tune-up limit	MPR	
				3480	3500.01	3520.02	(dBm)	(dB)	
60	QPSK	1	1	25.85	25.87	25.88	27.0	0.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	631668	633334	635000	Tune-up limit	MPR	
				3475.02	3500.01	3525	(dBm)	(dB)	
50	QPSK	1	1	25.80	25.83	25.94	27.0	0.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	631334	633334	635334	Tune-up limit	MPR	
				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	25.77	25.88	25.90	27.0	0.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit	MPR	
				3465	3500.01	3535.02	(dBm)	(dB)	
30	QPSK	1	1	25.79	25.91	25.84	27.0	0.0	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	630551	633334	635951	Tune-up limit	MPR	
				3462.51	3500.01	3537.51	(dBm)	(dB)	
25	QPSK	1	1	25.80	25.90	25.89	27.0	0.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	630000	633334	636000	Tune-up limit	MPR	
				3460.00	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	25.84	25.85	25.94	27.0	0.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	630000	633334	636168	Tune-up limit	MPR	
				3457.5	3500.01	3542.5	(dBm)	(dB)	
15	QPSK	1	1	25.82	25.95	25.86	27.0	0.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	630334	633334	636334	Tune-up limit	MPR	
				3455.01	3500.01	3545.01	(dBm)	(dB)	
10	QPSK	1	1	25.82	25.90	25.86	27.0	0.0	0.0



Part270 n78_FCC PC3 Ant5 EC12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.29	22.29	22.29	24.0
100	PI2 BPSK	1	137	22.23	22.23	22.23	24.0
100	PI2 BPSK	1	271	22.31	22.31	22.31	24.0
100	PI2 BPSK	135	0	21.90	21.90	21.90	23.5
100	PI2 BPSK	135	69	22.40	22.40	22.40	24.0
100	PI2 BPSK	135	138	21.70	21.70	21.70	23.5
100	PI2 BPSK	270	0	21.82	21.82	21.82	23.5
100	QPSK	1	1	22.48	22.48	22.48	24.0
100	QPSK	1	137	22.40	22.40	22.40	24.0
100	QPSK	1	271	22.29	22.29	22.29	24.0
100	QPSK	135	0	21.37	21.37	21.37	23.0
100	QPSK	135	69	22.39	22.39	22.39	24.0
100	QPSK	135	138	21.23	21.23	21.23	23.0
100	QPSK	270	0	21.61	21.61	21.61	23.0
100	16QAM	1	1	21.28	21.28	21.28	23.0
100	16QAM	1	1	19.88	19.88	19.88	21.5
100	25QAM	1	1	17.31	17.31	17.31	19.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.35	22.35	22.40	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.33	22.33	22.30	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.33	22.33	22.22	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.30	22.35	22.29	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.28	22.38	22.29	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.34	22.25	22.24	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.27	22.34	22.40	24.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.34	22.38	22.22	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.25	22.33	22.23	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.44	22.37	22.27	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.28	22.28	22.29	24.0

Part270 78_FCC PC3 Ant5 EC12							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.48	22.48	22.48	24.0
100	PI2 BPSK	1	137	22.40	22.40	22.40	24.0
100	PI2 BPSK	1	271	22.40	22.40	22.40	24.0
100	PI2 BPSK	135	0	22.00	22.00	22.00	23.5
100	PI2 BPSK	135	69	22.47	22.47	22.47	24.0
100	PI2 BPSK	135	138	21.92	21.92	21.92	23.5
100	PI2 BPSK	270	0	22.12	22.12	22.12	23.5
100	QPSK	1	1	22.68	22.68	22.68	24.0
100	QPSK	1	137	22.68	22.68	22.68	24.0
100	QPSK	1	271	22.38	22.38	22.38	24.0
100	QPSK	135	0	21.60	21.60	21.60	23.0
100	QPSK	135	69	22.57	22.57	22.57	24.0
100	QPSK	135	138	21.62	21.62	21.62	23.0
100	QPSK	270	0	21.60	21.60	21.60	23.0
100	16QAM	1	1	21.44	21.44	21.44	23.0
100	16QAM	1	1	20.09	20.09	20.09	21.5
100	25QAM	1	1	18.22	18.22	18.22	19.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.63	22.54	22.55	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.54	22.57	22.50	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.43	22.51	22.50	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.54	22.57	22.49	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.48	22.51	22.50	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.45	22.49	22.46	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.43	22.49	22.48	24.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	22.50	22.48	22.51	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.44	22.53	22.48	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.47	22.55	22.44	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.54	22.48	22.48	24.0



n48 Ant8 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.46	21.76	21.44			
40	PI2 BPSK	1	53	21.81	21.59	21.54	22.6	0.0	
40	PI2 BPSK	1	104	21.29	21.37	21.21			
40	PI2 BPSK	50	0	21.02	21.13	20.98	22.1	0.5	
40	PI2 BPSK	50	28	21.47	21.56	21.46	22.6	0.0	
40	PI2 BPSK	50	56	20.76	20.82	20.77	22.1	0.5	
40	PI2 BPSK	100	0	20.91	20.96	20.90			
40	QPSK	1	1	21.55	21.82	21.42			
40	QPSK	1	53	21.41	21.67	21.56	22.6	0.0	
40	QPSK	1	104	21.24	21.32	21.19			
40	QPSK	50	0	20.48	20.53	20.45	21.6	1.0	
40	QPSK	50	28	21.41	21.53	21.38	22.6	0.0	
40	QPSK	50	56	20.25	20.33	20.21	21.6	1.0	
40	QPSK	100	0	20.39	20.46	20.30			
40	16QAM	1	1	20.12	20.29	20.18	21.6	1.0	
40	16QAM	1	1	18.72	18.84	18.70	20.1	2.5	
40	256QAM	1	1	17.37	17.52	17.34	18.7	4.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.53	21.59	21.46	22.6	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.30	21.52	21.37	22.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.25	21.34	21.25	22.6	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.30	21.45	21.35	22.6	0.0	

Par270 n77_FCC PC3 Ant8 EC12									
BW (MHz)	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	21.80	21.82	21.69			
100	PI2 BPSK	1	137	21.86	21.79	21.72	22.5	0.0	
100	PI2 BPSK	1	271	21.42	21.52	21.41			
100	PI2 BPSK	135	0	21.91	21.96	21.84	22.5	0.0	
100	PI2 BPSK	135	69	21.81	21.91	21.75	22.5	0.0	
100	PI2 BPSK	135	138	21.64	21.73	21.63	22.5	0.0	
100	PI2 BPSK	270	0	21.86	21.92	21.80			
100	QPSK	1	1	21.83	22.01	21.65			
100	QPSK	1	137	21.70	21.84	21.75	22.5	0.0	
100	QPSK	1	271	21.38	21.47	21.36			
100	QPSK	135	0	21.89	21.87	21.93	22.5	0.0	
100	QPSK	135	69	21.83	21.98	21.74	22.5	0.0	
100	QPSK	135	138	21.68	21.77	21.64	22.5	0.0	
100	QPSK	270	0	21.85	21.90	21.75			
100	16QAM	1	1	21.58	21.66	21.52	22.5	0.0	
100	16QAM	1	1	21.65	21.61	21.40	22.5	0.0	
100	256QAM	1	1	20.77	20.72	20.60	21.0	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.67	21.85	21.56	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.73	21.94	21.54	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.69	21.90	21.60	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.67	21.97	21.60	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.78	21.92	21.51	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.74	21.87	21.54	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.68	21.89	21.50	22.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	21.79	21.90	21.60	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.79	21.86	21.50	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.75	21.96	21.54	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.78	21.89	21.56	22.5	0.0	

Par270 n77_FCC PC2 Ant8 EC12									
BW (MHz)	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	23.28	23.35	23.22			
100	PI2 BPSK	1	137	23.27	23.39	23.24	23.5	0.0	
100	PI2 BPSK	1	271	22.99	23.08	22.95			
100	PI2 BPSK	135	0	22.94	23.04	22.99	23.5	0.0	
100	PI2 BPSK	135	69	23.14	23.28	23.18	23.5	0.0	
100	PI2 BPSK	135	138	23.08	23.15	23.03	23.5	0.0	
100	PI2 BPSK	270	0	22.87	23.01	22.98			
100	QPSK	1	1	23.34	23.46	23.39			
100	QPSK	1	137	23.26	23.23	23.19	23.5	0.0	
100	QPSK	1	271	23.01	23.12	23.04			
100	QPSK	135	0	23.08	23.16	23.08	23.5	0.0	
100	QPSK	135	69	23.27	23.37	23.30	23.5	0.0	
100	QPSK	135	138	23.14	23.22	23.08	23.5	0.0	
100	QPSK	270	0	22.97	23.09	23.04			
100	16QAM	1	1	22.71	22.79	22.76	23.5	0.0	
100	16QAM	1	1	21.71	21.83	21.72	22.0	1.5	
100	256QAM	1	1	20.21	20.35	20.22	20.5	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.24	23.35	23.25	23.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.28	23.42	23.27	23.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.27	23.34	23.29	23.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.22	23.37	23.33	23.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.25	23.33	23.26	23.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.22	23.38	23.27	23.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.25	23.40	23.27	23.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.28	23.38	23.33	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.28	23.36	23.33	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.29	23.41	23.29	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.27	23.39	23.28	23.5	0.0	



Part27Q n77_FCC PC3 Ant8 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High 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		2120				
100	PI2 BPSK	1	271		2126		22.5	0.0	
100	PI2 BPSK	1	271		2130				
100	PI2 BPSK	135	0		2105		22.5	0.0	
100	PI2 BPSK	135	69		2126		22.5	0.0	
100	PI2 BPSK	135	138		2128		22.5	0.0	
100	PI2 BPSK	270	0		2126		22.5	0.0	
100	QPSK	1	1		2137				
100	QPSK	1	137		2136		22.5	0.0	
100	QPSK	1	271		2122				
100	QPSK	135	0		2110		22.5	0.0	
100	QPSK	135	69		2133		22.5	0.0	
100	QPSK	135	138		2121		22.5	0.0	
100	QPSK	270	0		2117		22.5	0.0	
100	16QAM	1	1		2087		22.5	0.0	
100	16QAM	1	1		2082		22.5	0.0	
100	256QAM	1	1		1927		21.0	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		3495	3500.01	3505.02	22.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		2127	2123	2129	22.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		2130	2129	2128	22.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		2131	2133	2122	22.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		2132	2131	2127	22.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		2123	2123	2129	22.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		2129	2132	2132	22.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1		2127	2130	2127	22.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1		2132	2127	2132	22.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1		2129	2129	2133	22.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		2125	2129	2127	22.5	0.0

Part27Q n77_FCC PC2 Ant8 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High 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		2150				
100	PI2 BPSK	1	271		2185		23.5	0.0	
100	PI2 BPSK	1	271		2171				
100	PI2 BPSK	135	0		2210		23.5	0.0	
100	PI2 BPSK	135	69		2209		23.5	0.0	
100	PI2 BPSK	135	138		2219		23.5	0.0	
100	PI2 BPSK	270	0		2213		23.5	0.0	
100	QPSK	1	1		2246				
100	QPSK	1	137		2216		23.5	0.0	
100	QPSK	1	271		2216				
100	QPSK	135	0		2187		23.5	0.0	
100	QPSK	135	69		2196		23.5	0.0	
100	QPSK	135	138		2184		23.5	0.0	
100	QPSK	270	0		2195		22.5	1.5	
100	16QAM	1	1		2098		22.5	0.0	
100	16QAM	1	1		2093		22.5	0.0	
100	256QAM	1	1		2002		21.0	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		3495	3500.01	3505.02	22.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		2234	2241	2241	23.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		2239	2239	2243	23.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		2233	2236	2236	23.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		2232	2233	2238	23.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		2237	2236	2234	23.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		2233	2237	2239	23.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1		2241	2231	2239	23.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1		2238	2238	2240	23.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1		2232	2234	2241	23.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1		2232	2241	2240	23.5	0.0





Part270 n78_FCC PC3 Ant8 ECI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.68	21.68	21.68	
100	PI2 BPSK	1	137	21.82	21.82	21.82	22.4
100	PI2 BPSK	1	271	21.98	21.98	21.98	
100	PI2 BPSK	135	0	21.13	21.13	21.13	21.9
100	PI2 BPSK	135	69	21.73	21.73	21.73	22.4
100	PI2 BPSK	135	138	21.07	21.07	21.07	21.9
100	PI2 BPSK	270	0	21.21	21.21	21.21	0.0
100	QPSK	1	1	21.76	21.76	21.76	
100	QPSK	1	137	21.66	21.66	21.66	22.4
100	QPSK	1	271	21.57	21.57	21.57	
100	QPSK	135	0	20.58	20.58	20.58	21.4
100	QPSK	135	69	21.94	21.94	21.94	22.4
100	QPSK	135	138	20.45	20.45	20.45	21.4
100	QPSK	270	0	20.37	20.37	20.37	21.4
100	16QAM	1	1	20.17	20.17	20.17	21.4
100	16QAM	1	1	18.63	18.63	18.63	19.9
100	256QAM	1	1	17.24	17.24	17.24	17.9
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.72	21.68	21.69	22.4
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.65	21.67	21.62	22.4
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.61	21.63	21.61	22.4
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.70	21.60	21.61	22.4
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.67	21.63	21.67	22.4
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.66	21.69	21.72	22.4
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.63	21.62	21.63	22.4
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.65	21.62	21.62	22.4
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.60	21.71	21.71	22.4
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.61	21.71	21.70	22.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.70	21.61	21.62	22.4

Part270 78_FCC PC3 Ant8 ECI2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633334	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.06	21.06	21.06	
100	PI2 BPSK	1	137	21.02	21.02	21.02	22.4
100	PI2 BPSK	1	271	21.08	21.08	21.08	
100	PI2 BPSK	135	0	20.36	20.36	20.36	21.9
100	PI2 BPSK	135	69	20.97	20.97	20.97	22.4
100	PI2 BPSK	135	138	20.51	20.51	20.51	21.9
100	PI2 BPSK	270	0	20.44	20.44	20.44	0.0
100	QPSK	1	1	21.11	21.11	21.11	
100	QPSK	1	137	20.96	20.96	20.96	22.4
100	QPSK	1	271	20.94	20.94	20.94	
100	QPSK	135	0	19.93	19.93	19.93	21.4
100	QPSK	135	69	21.07	21.07	21.07	22.4
100	QPSK	135	138	20.00	20.00	20.00	21.4
100	QPSK	270	0	19.92	19.92	19.92	21.4
100	16QAM	1	1	19.47	19.47	19.47	19.9
100	16QAM	1	1	17.98	17.98	17.98	19.9
100	256QAM	1	1	16.33	16.33	16.33	17.9
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.01	21.00	20.98	22.4
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.06	21.07	20.99	22.4
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.97	20.97	21.01	22.4
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.96	20.96	20.96	22.4
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.00	21.01	20.98	22.4
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.98	20.95	20.97	22.4
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.95	21.02	20.97	22.4
Channel							
Frequency (MHz)							
25	QPSK	1	1	21.01	21.02	20.98	22.4
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.98	20.98	20.95	22.4
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.95	20.95	20.97	22.4
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.04	21.05	21.00	22.4



## Reduced Power Level for 5GNR ECI3

n2 Ant0 ECI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				37200	37600	37900	
Frequency (MHz)				1870	1880	1890	
40	PI2 BPSK	1	1	16.68	16.62	16.56	
40	PI2 BPSK	1	108	16.73	16.71	16.46	
40	PI2 BPSK	1	214	16.70	16.67	16.51	
40	PI2 BPSK	108	0	16.63	16.62	16.54	17.5
40	PI2 BPSK	108	54	16.72	16.65	16.45	17.5
40	PI2 BPSK	108	108	16.66	16.69	16.49	17.5
40	PI2 BPSK	216	0	16.68	16.71	16.57	17.5
40	QPSK	1	1	16.69	16.77	16.41	
40	QPSK	1	108	16.68	16.62	16.50	17.5
40	QPSK	1	214	16.63	16.63	16.47	
40	QPSK	108	0	16.68	16.65	16.49	17.5
40	QPSK	108	54	16.69	16.71	16.52	17.5
40	QPSK	108	108	16.66	16.62	16.51	17.5
40	QPSK	216	0	16.66	16.69	16.44	
40	16QAM	1	1	16.72	16.71	16.43	17.5
40	64QAM	1	1	16.71	16.63	16.47	17.5
40	256QAM	1	1	16.62	16.66	16.48	17.5
Channel				37200	37600	37900	MPR (dB)
Frequency (MHz)				1865	1880	1895	(dB)
30	QPSK	1	1	16.52	16.75	16.28	17.5
Channel				372500	376000	379500	MPR (dB)
Frequency (MHz)				1862.5	1880	1897.5	(dB)
25	QPSK	1	1	16.54	16.87	16.38	17.5
Channel				372000	375500	380000	MPR (dB)
Frequency (MHz)				1860	1880	1900	(dB)
20	QPSK	1	1	16.57	16.68	16.41	17.5
Channel				371500	376000	380500	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5	(dB)
15	QPSK	1	1	16.57	16.67	16.38	17.5
Channel				371000	376000	381000	MPR (dB)
Frequency (MHz)				1855	1880	1905	(dB)
10	QPSK	1	1	16.56	16.63	16.33	17.5
Channel				372500	375000	375000	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5	(dB)
5	QPSK	1	1	16.54	16.71	16.37	17.5

n5 Ant0 ECI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				16200	16200	16700	
Frequency (MHz)				834	836.5	839	
20	PI2 BPSK	1	1	22.72	22.82	22.78	
20	PI2 BPSK	1	53	22.78	22.92	22.84	
20	PI2 BPSK	1	104	22.79	22.86	22.80	
20	PI2 BPSK	50	0	22.20	22.28	22.16	23.5
20	PI2 BPSK	50	28	22.72	22.83	22.79	24.0
20	PI2 BPSK	50	56	22.29	22.44	22.40	23.5
20	PI2 BPSK	100	0	22.21	22.29	22.24	23.5
20	QPSK	1	1	22.79	22.11	22.84	
20	QPSK	1	53	22.92	22.86	22.89	
20	QPSK	1	104	22.68	22.81	22.73	
20	QPSK	50	0	21.79	21.87	21.73	23.0
20	QPSK	50	28	22.70	22.79	22.71	24.0
20	QPSK	50	56	21.82	21.90	21.77	23.0
20	QPSK	100	0	21.68	21.77	21.61	23.0
20	16QAM	1	1	21.43	21.46	21.55	23.0
20	64QAM	1	1	19.99	20.01	20.02	21.5
20	256QAM	1	1	18.89	18.87	18.93	19.5
Channel				16200	16700	16900	MPR (dB)
Frequency (MHz)				831.5	836.5	841.5	(dB)
15	QPSK	1	1	22.84	22.77	22.63	24.0
Channel				168800	167300	168800	MPR (dB)
Frequency (MHz)				839	836.5	844	(dB)
10	QPSK	1	1	22.73	22.85	22.69	24.0
Channel				162300	162300	169300	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	(dB)
5	QPSK	1	1	22.72	22.80	22.75	24.0

n66 Ant0 ECI3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				34500	34900	35300	
Frequency (MHz)				1730	1745	1760	
40	PI2 BPSK	1	1	19.27	19.24	19.31	
40	PI2 BPSK	1	108	19.35	19.34	19.13	
40	PI2 BPSK	1	214	19.31	19.31	19.16	
40	PI2 BPSK	108	0	19.26	19.24	19.24	20.3
40	PI2 BPSK	108	54	19.26	19.28	19.18	20.3
40	PI2 BPSK	108	108	19.27	19.34	19.17	20.3
40	PI2 BPSK	216	0	19.24	19.35	19.22	20.3
40	QPSK	1	1	19.23	19.39	19.14	
40	QPSK	1	108	19.25	19.26	19.17	20.3
40	QPSK	1	214	19.19	19.28	19.14	
40	QPSK	108	0	19.29	19.27	19.16	20.3
40	QPSK	108	54	19.28	19.30	19.25	20.3
40	QPSK	108	108	19.30	19.18	19.21	20.3
40	QPSK	216	0	19.23	19.26	19.15	
40	16QAM	1	1	19.34	19.34	19.14	20.3
40	64QAM	1	1	19.27	19.27	19.16	20.3
40	256QAM	1	1	19.22	19.26	19.19	20.3
Channel				34500	34900	35300	MPR (dB)
Frequency (MHz)				1725	1745	1765	(dB)
30	QPSK	1	1	19.15	19.31	19.08	20.3
Channel				344500	349000	353500	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5	(dB)
25	QPSK	1	1	19.09	19.33	19.01	20.3
Channel				344000	349000	354000	MPR (dB)
Frequency (MHz)				1720	1745	1770	(dB)
20	QPSK	1	1	19.11	19.32	19.01	20.3
Channel				343500	349000	354500	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5	(dB)
15	QPSK	1	1	19.18	19.24	19.03	20.3
Channel				343000	349000	355000	MPR (dB)
Frequency (MHz)				1715	1745	1775	(dB)
10	QPSK	1	1	19.16	19.34	19.05	20.3
Channel				342500	349000	355500	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5	(dB)
5	QPSK	1	1	19.17	19.25	19.06	20.3



n2 Ant1 ECI3									
BW (MHz)	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)				1870	1880	1890			
40	PI2 BPSK	1	1	16.38	16.37	16.48			
40	PI2 BPSK	1	108	16.45	16.46	16.32		0.0	
40	PI2 BPSK	1	214	16.46	16.52	16.32			
40	PI2 BPSK	108	0	16.35	16.36	16.35	17.9	0.0	
40	PI2 BPSK	108	54	16.38	16.47	16.30	17.9	0.0	
40	PI2 BPSK	108	108	16.43	16.55	16.30	17.9	0.0	
40	PI2 BPSK	216	0	16.38	16.50	16.40			
40	QPSK	1	1	16.56	16.61	16.48			
40	QPSK	1	108	16.44	16.38	16.29	17.9	0.0	
40	QPSK	1	214	16.32	16.44	16.35			
40	QPSK	108	0	16.43	16.40	16.35	17.9	0.0	
40	QPSK	108	54	16.40	16.51	16.37	17.9	0.0	
40	QPSK	108	108	16.50	16.36	16.41	17.9	0.0	
40	QPSK	216	0	16.41	16.45	16.25			
40	16QAM	1	1	16.45	16.45	16.24	17.9	0.0	
40	64QAM	1	1	16.37	16.37	16.33	17.9	0.0	
40	256QAM	1	1	16.32	16.43	16.29	17.9	0.0	
Channel									
Frequency (MHz)				1885	1880	1885			
30	QPSK	1	1	16.41	16.53	16.33	17.9	0.0	
Channel									
Frequency (MHz)				372500	376000	379500			
25	QPSK	1	1	16.52	16.49	16.37	17.9	0.0	
Channel									
Frequency (MHz)				372000	376000	380000			
20	QPSK	1	1	16.51	16.49	16.44	17.9	0.0	
Channel									
Frequency (MHz)				371500	376000	380500			
15	QPSK	1	1	16.27	16.43	16.36	17.9	0.0	
Channel									
Frequency (MHz)				371000	376000	381000			
10	QPSK	1	1	16.30	16.49	16.42	17.9	0.0	
Channel									
Frequency (MHz)				370500	376000	381500			
5	QPSK	1	1	16.29	16.45	16.44	17.9	0.0	

n5 Ant1 ECI3									
BW (MHz)	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)				165800	167300	167900			
20	PI2 BPSK	1	1	22.51	22.66	22.54			
20	PI2 BPSK	1	53	22.56	22.61	22.47	23.5	0.0	
20	PI2 BPSK	1	104	22.03	22.74	22.59	23.0	0.5	
20	PI2 BPSK	50	0	22.07	22.19	22.09	23.5	0.0	
20	PI2 BPSK	50	28	22.80	22.66	22.56			
20	PI2 BPSK	50	56	22.07	22.21	22.16	23.0	0.5	
20	PI2 BPSK	100	0	22.01	22.14	22.07			
20	QPSK	1	1	22.53	22.79	22.63			
20	QPSK	1	53	22.58	22.65	22.52	23.5	0.0	
20	QPSK	1	104	22.84	22.72	22.65			
20	QPSK	50	0	21.38	21.52	21.46	22.5	1.0	
20	QPSK	50	28	22.48	22.62	22.47	23.5	0.0	
20	QPSK	50	56	21.58	21.67	21.52	22.5	1.0	
20	QPSK	100	0	21.49	21.63	21.58			
20	16QAM	1	1	21.21	21.29	21.25	22.5	1.0	
20	64QAM	1	1	19.79	19.88	19.83	21.0	2.5	
20	256QAM	1	1	18.70	18.88	18.71	19.0	4.5	
Channel									
Frequency (MHz)				165300	167300	168300			
15	QPSK	1	1	23.59	23.63	23.49	23.5	0.0	
Channel									
Frequency (MHz)				165800	167300	168800			
10	QPSK	1	1	23.45	22.55	22.54	23.5	0.0	
Channel									
Frequency (MHz)				165300	167300	169300			
5	QPSK	1	1	23.48	22.58	22.44	23.5	0.0	

n66 Ant1 ECI3									
BW (MHz)	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)				346000	349000	353000			
40	PI2 BPSK	1	1	16.58	16.54	16.63			
40	PI2 BPSK	1	108	16.63	16.63	16.43	18.1	0.0	
40	PI2 BPSK	1	214	16.54	16.61	16.48			
40	PI2 BPSK	108	0	16.48	16.57	16.48	18.1	0.0	
40	PI2 BPSK	108	54	16.59	16.55	16.41	18.1	0.0	
40	PI2 BPSK	108	108	16.61	16.65	16.45	18.1	0.0	
40	PI2 BPSK	216	0	16.56	16.59	16.50			
40	QPSK	1	1	16.66	16.71	16.39			
40	QPSK	1	108	16.51	16.57	16.41	18.1	0.0	
40	QPSK	1	214	16.41	16.51	16.39			
40	QPSK	108	0	16.55	16.54	16.38	18.1	0.0	
40	QPSK	108	54	16.54	16.62	16.48	18.1	0.0	
40	QPSK	108	108	16.63	16.48	16.48	18.1	0.0	
40	QPSK	216	0	16.55	16.57	16.41			
40	16QAM	1	1	16.63	16.67	16.35	18.1	0.0	
40	64QAM	1	1	16.59	16.54	16.41	18.1	0.0	
40	256QAM	1	1	16.50	16.54	16.51	18.1	0.0	
Channel									
Frequency (MHz)				345000	349000	353000			
30	QPSK	1	1	16.57	16.58	16.24	18.1	0.0	
Channel									
Frequency (MHz)				344500	349000	353500			
25	QPSK	1	1	17.23	17.43	17.03	18.1	0.0	
Channel									
Frequency (MHz)				344000	349000	354000			
20	QPSK	1	1	16.54	16.67	16.25	18.1	0.0	
Channel									
Frequency (MHz)				343000	349000	354500			
15	QPSK	1	1	16.61	16.56	16.25	18.1	0.0	
Channel									
Frequency (MHz)				343000	349000	355000			
10	QPSK	1	1	17.15	17.45	17.12	18.1	0.0	
Channel									
Frequency (MHz)				342500	349000	355500			
5	QPSK	1	1	17.12	17.45	17.17	18.1	0.0	



n48 Ant3 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	17.33	17.29	17.38			
40	PI2 BPSK	1	53	17.33	17.38	17.10		0.0	
40	PI2 BPSK	1	104	17.24	17.33	17.26			
40	PI2 BPSK	50	0	17.20	17.29	17.27	18.7	0.0	
40	PI2 BPSK	50	28	17.33	17.26	17.15	18.7	0.0	
40	PI2 BPSK	50	58	17.27	17.38	17.19	18.7	0.0	
40	PI2 BPSK	100	0	17.28	17.35	17.22			
40	QPSK	1	1	17.39	17.46	17.14			
40	QPSK	1	53	17.21	17.34	17.12	18.7	0.0	
40	QPSK	1	104	17.08	17.28	17.09			
40	QPSK	50	0	17.33	17.30	17.10	18.7	0.0	
40	QPSK	50	28	17.27	17.36	17.21	18.7	0.0	
40	QPSK	50	58	17.20	17.25	17.26	18.7	0.0	
40	QPSK	100	0	17.33	17.34	17.08	18.7	0.0	
40	16QAM	1	1	17.41	17.42	17.02	18.7	0.0	
40	16QAM	1	1	17.33	17.30	17.08	18.7	0.0	
40	256QAM	1	1	17.20	17.21	17.29	18.7	0.0	
Channel				637866	641600	645300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	17.29	17.43	17.10	18.7	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3550.01	3624.99	3690			
20	QPSK	1	1	17.52	17.44	17.05	18.7	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	17.25	17.36	17.35	18.7	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	17.32	17.41	17.07	18.7	0.0	

Par270 n77_FCC PC2&PC3 Ant3 EC13									
BW (MHz)	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	3840	3930			
100	PI2 BPSK	1	1	17.73	17.71	17.69			
100	PI2 BPSK	1	137	17.66	17.70	17.49	18.1	0.0	
100	PI2 BPSK	1	271	17.62	17.75	17.57			
100	PI2 BPSK	135	0	17.63	17.70	17.57	18.1	0.0	
100	PI2 BPSK	135	69	17.64	17.62	17.50	18.1	0.0	
100	PI2 BPSK	135	138	17.61	17.68	17.59	18.1	0.0	
100	PI2 BPSK	270	0	17.68	17.71	17.58			
100	QPSK	1	1	17.72	17.79	17.52			
100	QPSK	1	137	17.61	17.75	17.49	18.1	0.0	
100	QPSK	1	271	17.44	17.64	17.44			
100	QPSK	135	0	17.69	17.65	17.46	18.1	0.0	
100	QPSK	135	69	17.60	17.75	17.61	18.1	0.0	
100	QPSK	135	138	17.52	17.59	17.60	18.1	0.0	
100	QPSK	270	0	17.70	17.73	17.40			
100	16QAM	1	1	17.78	17.74	17.38	18.1	0.0	
100	16QAM	1	1	17.75	17.72	17.44	18.1	0.0	
100	256QAM	1	1	17.51	17.51	17.71	18.1	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.68	17.67	17.41	18.1	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.57	17.70	17.20	18.1	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.59	17.71	17.38	18.1	0.0	
Channel				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.59	17.73	17.46	18.1	0.0	
Channel				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.61	17.66	17.43	18.1	0.0	
Channel				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.66	17.65	17.39	18.1	0.0	
Channel				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.65	17.66	17.20	18.1	0.0	
Channel				647000	650000	654600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.57	17.63	17.37	18.1	0.0	
Channel				647334	650000	654968	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.66	17.65	17.39	18.1	0.0	
Channel				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.61	17.71	17.43	18.1	0.0	
Channel				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.63	17.64	17.44	18.1	0.0	

Par27Q n77_FCC PC2&PC3 Ant3 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633500			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	17.51					
100	PI2 BPSK	1	137	17.54			18.1	0.0	
100	PI2 BPSK	1	271	17.55					
100	PI2 BPSK	135	0	17.57			18.1	0.0	
100	PI2 BPSK	135	69	17.51			18.1	0.0	
100	PI2 BPSK	135	138	17.50			18.1	0.0	
100	PI2 BPSK	270	0	17.56					
100	QPSK	1	1	17.65					
100	QPSK	1	137	17.60			18.1	0.0	
100	QPSK	1	271	17.49					
100	QPSK	135	0	17.54			18.1	0.0	
100	QPSK	135	69	17.57			18.1	0.0	
100	QPSK	135	138	17.42			18.1	0.0	
100	QPSK	270	0	17.53					
100	16QAM	1	1	17.53			18.1	0.0	
100	16QAM	1	1	17.61			18.1	0.0	
100	256QAM	1	1	17.34			18.1	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	17.53	17.61	17.50	18.1	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	17.56	17.54	17.53	18.1	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	17.52	17.53	17.53	18.1	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	17.58	17.59	17.60	18.1	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	17.58	17.55	17.52	18.1	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.59	17.51	17.55	18.1	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	17.57	17.49	17.55	18.1	0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	17.59	17.54	17.53	18.1	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.58	17.50	17.58	18.1	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	17.58	17.56	17.53	18.1	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	17.54	17.57	17.49	18.1	0.0	



Part270 n78_FCC PC3 Ant3 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				65000	65000	65000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1		17.10				
100	PI2 BPSK	1	137		17.11			0.0	
100	PI2 BPSK	1	271		17.22				
100	PI2 BPSK	135	0		17.12		18.1	0.0	
100	PI2 BPSK	135	69		17.10		18.1	0.0	
100	PI2 BPSK	135	138		17.13		18.1	0.0	
100	PI2 BPSK	270	0		17.14				
100	QPSK	1	1		17.28				
100	QPSK	1	137		17.16		18.1	0.0	
100	QPSK	1	271		17.03				
100	QPSK	135	0		17.09		18.1	0.0	
100	QPSK	135	69		17.20		18.1	0.0	
100	QPSK	135	138		17.06		18.1	0.0	
100	QPSK	270	0		17.12				
100	16QAM	1	1		17.15		18.1	0.0	
100	64QAM	1	1		17.19		18.1	0.0	
100	256QAM	1	1		16.91		18.1	0.0	
Channel				64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1		17.19	17.14	17.22	18.1	0.0
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1		17.15	17.40	17.42	18.1	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1		17.23	17.18	17.18	18.1	0.0
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1		17.22	17.12	17.15	18.1	0.0
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1		17.14	17.13	17.21	18.1	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1		17.18	17.23	17.17	18.1	0.0
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3713.02	3750	3763.01			
30	QPSK	1	1		17.15	17.13	17.21	18.1	0.0
Channel				647300	650000	652900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3750	3767.5			
25	QPSK	1	1		17.18	17.17	17.23	18.1	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3769.02			
20	QPSK	1	1		17.15	17.21	17.17	18.1	0.0
Channel				647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3750	3762.51			
15	QPSK	1	1		17.21	17.14	17.20	18.1	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1		17.21	17.20	17.12	18.1	0.0

Part27Q 78_FCC PC3 Ant3 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				63000	63334	63334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		17.04				
100	PI2 BPSK	1	137		16.96			0.0	
100	PI2 BPSK	1	271		17.12				
100	PI2 BPSK	135	0		16.97		18.1	0.0	
100	PI2 BPSK	135	69		17.01		18.1	0.0	
100	PI2 BPSK	135	138		17.00		18.1	0.0	
100	PI2 BPSK	270	0		17.08				
100	QPSK	1	1		17.14				
100	QPSK	1	137		17.10		18.1	0.0	
100	QPSK	1	271		16.96				
100	QPSK	135	0		17.05		18.1	0.0	
100	QPSK	135	69		17.08		18.1	0.0	
100	QPSK	135	138		16.87		18.1	0.0	
100	QPSK	270	0		17.04				
100	16QAM	1	1		17.01		18.1	0.0	
100	64QAM	1	1		17.08		18.1	0.0	
100	256QAM	1	1		16.88		18.1	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1		17.04	17.09	17.05	18.1	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1		17.01	17.00	17.10	18.1	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1		17.09	16.99	17.01	18.1	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1		16.98	17.04	17.03	18.1	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1		17.08	17.08	17.02	18.1	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1		17.09	17.07	17.08	18.1	0.0
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1		17.10	17.00	17.04	18.1	0.0
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1		17.09	17.08	17.05	18.1	0.0
Channel				630334	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1		17.00	17.00	17.10	18.1	0.0
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1		17.08	17.03	16.99	18.1	0.0
Channel				629668	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1		17.06	17.09	17.00	18.1	0.0



n48 Ant4 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	16.36	16.31	16.39			
40	PI2 BPSK	1	53	16.39	16.39	16.14		0.0	
40	PI2 BPSK	1	104	16.26	16.34	16.23			
40	PI2 BPSK	50	0	16.23	16.25	16.25	17.7	0.0	
40	PI2 BPSK	50	28	16.31	16.29	16.10	17.7	0.0	
40	PI2 BPSK	50	58	16.26	16.37	16.14	17.7	0.0	
40	PI2 BPSK	100	0	16.28	16.30	16.22			
40	QPSK	1	1	16.39	16.47	16.18			
40	QPSK	1	53	16.24	16.34	16.16	17.7	0.0	
40	QPSK	1	104	16.12	16.28	16.11			
40	QPSK	50	0	16.31	16.31	16.15	17.7	0.0	
40	QPSK	50	28	16.26	16.36	16.21	17.7	0.0	
40	QPSK	50	58	16.24	16.24	16.29	17.7	0.0	
40	QPSK	100	0	16.30	16.32	16.06			
40	16QAM	1	1	16.36	16.40	16.28	17.7	0.0	
40	16QAM	1	1	16.28	16.35	16.05	17.7	0.0	
40	256QAM	1	1	16.16	16.19	16.31	17.7	0.0	
Channel				637666	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	16.27	16.32	16.08	17.7	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	16.33	16.30	16.07	17.7	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	16.25	16.36	16.35	17.7	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.99			
10	QPSK	1	1	16.27	16.42	16.11	17.7	0.0	

Par270 n77_FCC PC2&PC3 Ant4 EC13									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	16.01	16.04	16.06			
100	PI2 BPSK	1	137	16.03	16.07	15.94	16.4	0.0	
100	PI2 BPSK	1	271	15.96	16.03	15.98			
100	PI2 BPSK	135	0	15.91	15.99	15.94	16.4	0.0	
100	PI2 BPSK	135	69	16.04	16.01	15.99	16.4	0.0	
100	PI2 BPSK	135	138	15.93	16.08	15.92	16.4	0.0	
100	PI2 BPSK	270	0	15.94	16.02	15.87			
100	QPSK	1	1	16.06	16.11	15.96			
100	QPSK	1	137	15.93	16.04	15.99	16.4	0.0	
100	QPSK	1	271	15.97	15.95	15.87			
100	QPSK	135	0	16.02	16.01	15.91	16.4	0.0	
100	QPSK	135	69	15.92	16.09	15.94	16.4	0.0	
100	QPSK	135	138	15.90	15.96	15.94	16.4	0.0	
100	QPSK	270	0	16.00	16.04	15.99			
100	16QAM	1	1	16.03	16.06	16.00	16.4	0.0	
100	16QAM	1	1	15.96	16.00	15.92	16.4	0.0	
100	256QAM	1	1	15.96	16.01	16.05	16.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.96	15.95	15.88	16.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.94	15.97	15.90	16.4	0.0	
Channel				649000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.99	16.06	15.81	16.4	0.0	
Channel				648668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.97	15.98	15.87	16.4	0.0	
Channel				648334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.95	16.01	15.80	16.4	0.0	
Channel				648000	650000	650300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.92	15.98	15.90	16.4	0.0	
Channel				647668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.95	16.00	15.83	16.4	0.0	
Channel				647000	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.97	16.03	15.89	16.4	0.0	
Channel				647334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.00	15.99	15.84	16.4	0.0	
Channel				647168	650000	650834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.96	16.05	15.89	16.4	0.0	
Channel				647000	650000	650500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.96	16.03	15.89	16.4	0.0	

Part27Q n77_FCC PC2&PC3 Ant4 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633668			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	16.08					
100	PI2 BPSK	1	137	16.14			16.4	0.0	
100	PI2 BPSK	1	271	16.19					
100	PI2 BPSK	135	0	16.09			16.4	0.0	
100	PI2 BPSK	135	69	16.06			16.4	0.0	
100	PI2 BPSK	135	138	16.14			16.4	0.0	
100	PI2 BPSK	270	0	16.16					
100	QPSK	1	1	16.27					
100	QPSK	1	137	16.09			16.4	0.0	
100	QPSK	1	271	16.07					
100	QPSK	135	0	16.12			16.4	0.0	
100	QPSK	135	69	16.21			16.4	0.0	
100	QPSK	135	138	16.04			16.4	0.0	
100	QPSK	270	0	16.16					
100	16QAM	1	1	16.18			16.4	0.0	
100	16QAM	1	1	16.16			16.4	0.0	
100	256QAM	1	1	16.05			16.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	16.13	16.19	16.14	16.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	16.15	16.12	16.17	16.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	16.12	16.17	16.12	16.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.16	16.18	16.13	16.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	16.23	16.11	16.22	16.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	16.20	16.19	16.17	16.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	16.13	16.22	16.12	16.4	0.0	
Channel				630834	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	16.19	16.12	16.11	16.4	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	16.13	16.15	16.17	16.4	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	16.12	16.18	16.17	16.4	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	16.12	16.21	16.13	16.4	0.0	



Part270 n78_FCC PC3 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.53	15.53	15.53			
100	PI2 BPSK	1	137	15.68	15.68	15.68		0.0	
100	PI2 BPSK	1	271	15.68	15.68	15.68			16.4
100	PI2 BPSK	135	0	15.81	15.81	15.81	16.4	0.0	
100	PI2 BPSK	135	69	15.51	15.51	15.51	16.4	0.0	
100	PI2 BPSK	135	138	15.63	15.63	15.63	16.4	0.0	
100	PI2 BPSK	270	0	15.68	15.68	15.68			16.4
100	QPSK	1	1	15.74	15.74	15.74			16.4
100	QPSK	1	137	15.65	15.65	15.65		0.0	
100	QPSK	1	271	15.58	15.58	15.58			16.4
100	QPSK	135	0	15.59	15.59	15.59	16.4	0.0	
100	QPSK	135	69	15.65	15.65	15.65	16.4	0.0	
100	QPSK	135	138	15.57	15.57	15.57	16.4	0.0	
100	QPSK	270	0	15.52	15.52	15.52			16.4
100	16QAM	1	1	15.88	15.88	15.88			16.4
100	16QAM	1	1	15.71	15.71	15.71			16.4
100	256QAM	1	1	15.55	15.55	15.55			16.4
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.62	15.60	15.63	16.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.59	15.60	15.64	16.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.89	15.64	15.66	16.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.88	15.62	15.62	16.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.82	15.63	15.59	16.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.64	15.58	15.67	16.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.59	15.64	15.63	16.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.88	15.70	15.59	16.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.89	15.58	15.67	16.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.86	15.61	15.70	16.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.66	15.65	15.59	16.4	0.0	

Part27Q 78_FCC PC3 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633334	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.64	15.64	15.64			
100	PI2 BPSK	1	137	15.75	15.75	15.75		0.0	
100	PI2 BPSK	1	271	15.84	15.84	15.84			16.4
100	PI2 BPSK	135	0	15.73	15.73	15.73	16.4	0.0	
100	PI2 BPSK	135	69	15.64	15.64	15.64	16.4	0.0	
100	PI2 BPSK	135	138	15.70	15.70	15.70	16.4	0.0	
100	PI2 BPSK	270	0	15.79	15.79	15.79			16.4
100	QPSK	1	1	15.90	15.90	15.90			16.4
100	QPSK	1	137	15.69	15.69	15.69		0.0	
100	QPSK	1	271	15.70	15.70	15.70			16.4
100	QPSK	135	0	15.72	15.72	15.72	16.4	0.0	
100	QPSK	135	69	15.76	15.76	15.76	16.4	0.0	
100	QPSK	135	138	15.69	15.69	15.69	16.4	0.0	
100	QPSK	270	0	15.78	15.78	15.78			16.4
100	16QAM	1	1	15.80	15.80	15.80			16.4
100	16QAM	1	1	15.78	15.78	15.78			16.4
100	256QAM	1	1	15.65	15.65	15.65			16.4
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.85	15.84	15.85	16.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.78	15.80	15.85	16.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.77	15.83	15.77	16.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.80	15.76	15.78	16.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.78	15.74	15.78	16.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.82	15.79	15.76	16.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.77	15.75	15.80	16.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.83	15.82	15.82	16.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.76	15.79	15.76	16.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.82	15.85	15.83	16.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.85	15.77	15.75	16.4	0.0	





### n48 Ant5 EC13

BW (MHz)	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)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	19.56	19.64	19.53		
40	PI2 BPSK	1	53	19.34	19.49	19.38		0.0
40	PI2 BPSK	1	104	19.32	19.44	19.39		
40	PI2 BPSK	50	0	19.42	19.80	19.57	20.5	0.0
40	PI2 BPSK	50	28	19.44	19.56	19.49	20.5	0.0
40	PI2 BPSK	50	58	19.42	19.45	19.37	20.5	0.0
40	PI2 BPSK	100	0	19.47	19.57	19.46		
40	QPSK	1	1	19.06	19.08	19.51		
40	QPSK	1	53	19.37	19.50	19.42	20.5	0.0
40	QPSK	1	104	19.32	19.48	19.41		
40	QPSK	50	0	19.44	19.60	19.55	20.5	0.0
40	QPSK	50	28	19.61	19.84	19.54	20.5	0.0
40	QPSK	50	58	19.24	19.42	19.32	20.5	0.0
40	QPSK	100	0	19.50	19.82	19.54		
40	16QAM	1	1	19.39	19.44	19.27	20.5	0.0
40	16QAM	1	1	19.45	19.52	19.37	20.5	0.0
40	256QAM	1	1	19.52	19.56	19.40	20.5	0.0
Channel								
Frequency (MHz)				63766	64166	64500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555.02	3624.99	3684.99		
30	QPSK	1	1	19.44	19.48	19.24	20.5	0.0
Channel								
Frequency (MHz)				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	19.34	19.44	19.23	20.5	0.0
Channel								
Frequency (MHz)				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	19.25	19.36	19.35	20.5	0.0
Channel								
Frequency (MHz)				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	19.48	19.42	19.20	20.5	0.0

### Par270 n77 Ant5 EC13

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	17.80	17.83	17.76		
100	PI2 BPSK	1	137	17.60	17.76	17.64		
100	PI2 BPSK	1	271	17.53	17.89	17.54	19.4	0.0
100	PI2 BPSK	135	0	17.82	17.73	17.57	19.4	0.0
100	PI2 BPSK	135	69	17.71	17.81	17.67	19.4	0.0
100	PI2 BPSK	135	138	17.48	17.85	17.59	19.4	0.0
100	PI2 BPSK	270	0	17.67	17.75	17.70		
100	QPSK	1	1	17.93	17.99	17.96		
100	QPSK	1	137	17.68	17.71	17.55	19.4	0.0
100	QPSK	1	271	17.51	17.57	17.50		
100	QPSK	135	0	17.62	17.88	17.66	19.4	0.0
100	QPSK	135	69	17.65	17.79	17.66	19.4	0.0
100	QPSK	135	138	17.80	17.86	17.53	19.4	0.0
100	QPSK	270	0	17.74	17.77	17.62		
100	16QAM	1	1	17.43	17.43	17.46	19.4	0.0
100	16QAM	1	1	17.46	17.46	17.42	19.4	0.0
100	256QAM	1	1	17.41	17.56	17.51	19.4	0.0
Channel								
Frequency (MHz)				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3840	3935.01		
90	QPSK	1	1	17.75	17.90	17.83	19.4	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3840	3940.02		
80	QPSK	1	1	17.81	17.81	17.82	19.4	0.0
Channel								
Frequency (MHz)				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.86	17.83	17.88	19.4	0.0
Channel								
Frequency (MHz)				648668	650000	653334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3840	3950.01		
60	QPSK	1	1	17.84	17.91	17.90	19.4	0.0
Channel								
Frequency (MHz)				648334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3840	3955.02		
50	QPSK	1	1	17.77	17.86	17.94	19.4	0.0
Channel								
Frequency (MHz)				648000	650000	654000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.83	17.96	17.92	19.4	0.0
Channel								
Frequency (MHz)				647668	650000	654334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3840	3955.01		
30	QPSK	1	1	17.77	17.84	17.85	19.4	0.0
Channel								
Frequency (MHz)				647000	650000	654600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3840	3967.5		
25	QPSK	1	1	17.85	17.87	17.84	19.4	0.0
Channel								
Frequency (MHz)				647334	650000	654968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	17.75	17.95	17.88	19.4	0.0
Channel								
Frequency (MHz)				647168	650000	654834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3840	3972.51		
15	QPSK	1	1	17.89	17.92	17.83	19.4	0.0
Channel								
Frequency (MHz)				647000	650000	655000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3840	3975		
10	QPSK	1	1	17.87	17.94	17.83	19.4	0.0

### Part27Q n77 Ant5 EC13

BW (MHz)	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)				63334	63334	63500.01		
100	PI2 BPSK	1	1			18.52		
100	PI2 BPSK	1	137			18.48	19.4	0.0
100	PI2 BPSK	1	271			18.38		
100	PI2 BPSK	135	0			18.46	19.4	0.0
100	PI2 BPSK	135	69			18.53	19.4	0.0
100	PI2 BPSK	135	138			18.56	19.4	0.0
100	PI2 BPSK	270	0			18.42		
100	QPSK	1	1			18.06		
100	QPSK	1	137			18.47	19.4	0.0
100	QPSK	1	271			18.55		
100	QPSK	135	0			18.43	19.4	0.0
100	QPSK	135	69			18.51	19.4	0.0
100	QPSK	135	138			18.40	19.4	0.0
100	QPSK	270	0			18.46		
100	16QAM	1	1			18.19	19.4	0.0
100	16QAM	1	1			18.03	19.4	0.0
100	256QAM	1	1			18.21	19.4	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	18.47	18.60	18.60	19.4	0.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	18.40	18.45	18.40	19.4	0.0
Channel								
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	18.43	18.49	18.59	19.4	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	18.33	18.53	18.45	19.4	0.0
Channel								
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	18.34	18.61	18.56	19.4	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.42	18.49	18.58	19.4	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3500.01	3535.02		
30	QPSK	1	1	18.42	18.54	18.50	19.4	0.0
Channel								
Frequency (MHz)				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3500.01	3537.51		
25	QPSK	1	1	18.41	18.60	18.53	19.4	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.48	18.49	18.54	19.4	0.0
Channel								
Frequency (MHz)				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3500.01	3542.52		
15	QPSK	1	1	18.43	18.57	18.55	19.4	0.0
Channel								
Frequency (MHz)				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3500.01	3545.01		
10	QPSK	1	1	18.48	18.51	18.49	19.4	0.0



Part270 n78_FCC PC3 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.62				
100	PI2 BPSK	1	271		17.57			19.4	0.0
100	PI2 BPSK	135	0		17.45			19.4	0.0
100	PI2 BPSK	135	69		17.52			19.4	0.0
100	PI2 BPSK	135	138		17.83			19.4	0.0
100	PI2 BPSK	270	0		17.48			19.4	0.0
100	PI2 BPSK	270	0		17.54			19.4	0.0
100	QPSK	1	1		17.78			19.4	0.0
100	QPSK	1	137		17.50			19.4	0.0
100	QPSK	1	271		17.41			19.4	0.0
100	QPSK	135	0		17.48			19.4	0.0
100	QPSK	135	69		17.58			19.4	0.0
100	QPSK	135	138		17.48			19.4	0.0
100	QPSK	270	0		17.58			19.4	0.0
100	16QAM	1	1		17.42			19.4	0.0
100	16QAM	1	1		17.41			19.4	0.0
100	256QAM	1	1		17.45			19.4	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.51	17.60	17.64	19.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	645000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3735	3750	3765	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.57	17.73	17.65	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	64868	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	3725.01	3750	3775.02	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.51	17.72	17.63	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	647868	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3712.5	3750	3787.5	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.54	17.74	17.62	19.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	647168	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	3705	3750	3795	19.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.53	17.73	17.60	19.4	0.0	

Part27Q 78_FCC PC3 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 636668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3500.01					
100	PI2 BPSK	1	137		18.45				
100	PI2 BPSK	1	271		18.41			19.4	0.0
100	PI2 BPSK	135	0		18.30			19.4	0.0
100	PI2 BPSK	135	69		18.40			19.4	0.0
100	PI2 BPSK	135	138		18.44			19.4	0.0
100	PI2 BPSK	270	0		18.51			19.4	0.0
100	PI2 BPSK	270	0		18.33			19.4	0.0
100	QPSK	1	1		18.52			19.4	0.0
100	QPSK	1	137		18.40			19.4	0.0
100	QPSK	1	271		18.48			19.4	0.0
100	QPSK	135	0		18.34			19.4	0.0
100	QPSK	135	69		18.44			19.4	0.0
100	QPSK	135	138		18.34			19.4	0.0
100	QPSK	270	0		18.42			19.4	0.0
100	16QAM	1	1		18.11			19.4	0.0
100	16QAM	1	1		17.96			19.4	0.0
100	256QAM	1	1		18.15			19.4	0.0
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.37	18.50	18.50	19.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	3490.02	3500.01	3510	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	3486.01	3500.01	3515.01	19.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.38	18.51	18.49	19.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	3480	3500.01	3520.02	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.38	18.49	18.50	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	3475.02	3500.01	3525	19.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.38	18.49	18.51	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	3470.01	3500.01	3530.01	19.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	3465.01	3500.01	3545.01	19.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.37	18.49	18.51	19.4	0.0	



n48 Ant8 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	10.05	10.11	10.10			
40	PI2 BPSK	1	53	10.13	10.03	10.04			0.0
40	PI2 BPSK	1	104	10.06	10.06	10.06			
40	PI2 BPSK	50	0	9.96	10.10	10.11	11.3	0.0	
40	PI2 BPSK	50	28	10.06	10.02	10.07	11.3	0.0	
40	PI2 BPSK	50	58	10.02	10.16	10.10			
40	PI2 BPSK	100	0	10.09	10.15	9.96			
40	QPSK	1	1	10.12	10.17	10.10			
40	QPSK	1	53	10.06	10.16	10.14	11.3	0.0	
40	QPSK	1	104	10.00	10.12	10.00			
40	QPSK	50	0	10.10	10.11	10.03	11.3	0.0	
40	QPSK	50	28	10.07	10.13	10.06	11.3	0.0	
40	QPSK	50	58	10.03	10.06	10.04			
40	QPSK	100	0	10.03	10.05	10.08			
40	16QAM	1	1	10.02	10.02	10.10	11.3	0.0	
40	16QAM	1	1	10.05	10.02	10.06	11.3	0.0	
40	256QAM	1	1	10.11	10.06	10.05	11.3	0.0	
Channel				637666	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	10.08	10.16	9.97	11.3	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	10.09	10.12	9.94	11.3	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	10.05	10.16	10.15	11.3	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	10.11	10.12	10.09	11.3	0.0	

Par270 n77_FCC PC2&PC3 Ant8 EC13									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	11.63	11.78	11.71			
100	PI2 BPSK	1	137	11.71	11.81	11.70	12.4	0.0	
100	PI2 BPSK	1	271	11.55	11.70	11.64			
100	PI2 BPSK	135	0	11.59	11.89	11.55	12.4	0.0	
100	PI2 BPSK	135	69	11.48	11.82	11.51	12.4	0.0	
100	PI2 BPSK	135	138	11.69	11.81	11.67	12.4	0.0	
100	PI2 BPSK	270	0	11.63	11.89	11.65			
100	QPSK	1	1	11.82	11.88	11.80			
100	QPSK	1	137	11.69	11.78	11.73	12.4	0.0	
100	QPSK	1	271	11.64	11.73	11.64			
100	QPSK	135	0	11.58	11.72	11.66	12.4	0.0	
100	QPSK	135	69	11.65	11.75	11.70	12.4	0.0	
100	QPSK	135	138	11.80	11.71	11.61	12.4	0.0	
100	QPSK	270	0	11.66	11.73	11.58			
100	16QAM	1	1	11.64	11.80	11.72	12.4	0.0	
100	16QAM	1	1	11.70	11.78	11.67	12.4	0.0	
100	256QAM	1	1	11.64	11.89	11.59	12.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	11.74	11.80	11.81	12.4	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	11.80	11.81	11.81	12.4	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	11.79	11.79	11.81	12.4	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	11.78	11.74	11.79	12.4	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	11.76	11.76	11.77	12.4	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	11.81	11.75	11.78	12.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	11.78	11.72	11.83	12.4	0.0	
Channel				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	11.79	11.77	11.81	12.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	11.78	11.78	11.82	12.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	11.79	11.78	11.76	12.4	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	11.72	11.80	11.78	12.4	0.0	

Part27Q n77_FCC PC2&PC3 Ant8 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633000			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	11.32					
100	PI2 BPSK	1	137	11.30			12.4	0.0	
100	PI2 BPSK	1	271	11.25					
100	PI2 BPSK	135	0	11.19			12.4	0.0	
100	PI2 BPSK	135	69	11.06			12.4	0.0	
100	PI2 BPSK	135	138	11.27			12.4	0.0	
100	PI2 BPSK	270	0	11.14					
100	QPSK	1	1	11.36					
100	QPSK	1	137	11.29			12.4	0.0	
100	QPSK	1	271	11.25					
100	QPSK	135	0	11.20			12.4	0.0	
100	QPSK	135	69	11.34			12.4	0.0	
100	QPSK	135	138	11.18			12.4	0.0	
100	QPSK	270	0	11.30					
100	16QAM	1	1	11.29			12.4	0.0	
100	16QAM	1	1	11.32			12.4	0.0	
100	256QAM	1	1	11.23			12.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	11.34	11.32	11.30	12.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	11.25	11.22	11.21	12.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	11.32	11.26	11.32	12.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	11.30	11.25	11.24	12.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	11.27	11.33	11.30	12.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	11.27	11.27	11.32	12.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	11.23	11.29	11.26	12.4	0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	11.28	11.28	11.27	12.4	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	11.22	11.30	11.27	12.4	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	11.23	11.31	11.30	12.4	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	11.23	11.24	11.20	12.4	0.0	



Part270 n78_FCC PC3 Ant8 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		11.67				0.0
100	PI2 BPSK	1	271		11.56				
100	PI2 BPSK	135	0		11.57		12.4	0.0	
100	PI2 BPSK	135	69		11.54		12.4	0.0	
100	PI2 BPSK	135	138		11.68		12.4	0.0	
100	PI2 BPSK	270	0		11.57		12.4	0.0	
100	QPSK	1	1		11.70				1
100	QPSK	1	137		11.70		12.4	0.0	
100	QPSK	1	271		11.88				
100	QPSK	135	0		11.62		12.4	0.0	
100	QPSK	135	69		11.64		12.4	0.0	
100	QPSK	135	138		11.61		12.4	0.0	
100	QPSK	270	0		11.52		12.4	0.0	
100	16QAM	1	1		11.85		12.4	0.0	
100	64QAM	1	1		11.70		12.4	0.0	
100	256QAM	1	1		11.61		12.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.74	11.71	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.84	11.68	11.69	12.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.84	11.75	11.69	12.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.84	11.86	11.63	12.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.72	11.83	11.70	12.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.71	11.68	11.72	12.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.88	11.64	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.86	11.87	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.72	11.73	11.72	12.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.64	11.70	11.74	12.4	0.0	

Part270 n78_FCC PC3 Ant8 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		11.13				12.4
100	PI2 BPSK	1	271		11.02				
100	PI2 BPSK	135	0		10.97		12.4	0.0	
100	PI2 BPSK	135	69		10.81		12.4	0.0	
100	PI2 BPSK	135	138		11.10		12.4	0.0	
100	PI2 BPSK	270	0		10.96		12.4	0.0	
100	QPSK	1	1		11.19				1
100	QPSK	1	137		11.10		12.4	0.0	
100	QPSK	1	271		11.08				
100	QPSK	135	0		11.04		12.4	0.0	
100	QPSK	135	69		11.11		12.4	0.0	
100	QPSK	135	138		11.03		12.4	0.0	
100	QPSK	270	0		11.05		12.4	0.0	
100	16QAM	1	1		11.11		12.4	0.0	
100	64QAM	1	1		11.14		12.4	0.0	
100	256QAM	1	1		11.07		12.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.13	11.15	11.09	12.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.12	11.15	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.12	11.15	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.17	11.07	11.15	12.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.11	11.09	11.11	12.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.12	11.16	11.09	12.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.15	11.15	11.11	12.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.19	11.15	11.13	12.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.17	11.16	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.16	11.15	11.07	12.4	0.0	

Reduced Power Level for 5G NR

EC16

n2 Ant0 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC BPSK	1	1	20.10	20.08	20.24	21.4	0.0	
40	PUSC BPSK	1	168	20.16	20.18	20.08			
40	PUSC BPSK	1	214	20.04	20.20	20.07			
40	PUSC BPSK	108	0	20.07	20.12	20.07	21.4	0.0	
40	PUSC BPSK	108	54	20.16	20.11	20.08	21.4	0.0	
40	PUSC BPSK	108	108	20.10	20.10	20.00	21.4	0.0	
40	PUSC BPSK	216	0	20.08	20.15	20.01	21.4	0.0	
40	QPSK	1	1	20.25	20.31	20.17			
40	QPSK	1	168	20.06	20.12	20.11	21.4	0.0	
40	QPSK	1	214	19.98	20.07	20.08			
40	QPSK	108	0	20.06	20.10	20.15	21.4	0.0	
40	QPSK	108	54	20.07	20.25	20.10	21.4	0.0	
40	QPSK	108	108	20.08	20.12	20.17	21.4	0.0	
40	QPSK	216	0	20.15	20.21	20.18	21.4	0.0	
40	16QAM	1	1	20.12	20.20	20.03	21.4	0.0	
40	16QAM	1	1	20.08	20.17	20.07	21.4	0.0	
40	256QAM	1	1	20.05	20.15	20.09	21.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.53	18.50	18.65	19.8	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.13	20.30	20.14	21.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.03	20.10	20.14	21.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.00	20.20	20.00	21.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.08	20.20	19.97	21.4	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.99	20.22	19.95	21.4	0.0	

n5 Ant0 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PUSC BPSK	1	1	22.72	22.82	22.78			
20	PUSC BPSK	1	53	22.70	22.68	22.84	24.0	0.0	
20	PUSC BPSK	1	104	22.70	22.86	22.80			
20	PUSC BPSK	50	0	22.20	22.28	22.16	23.5	0.5	
20	PUSC BPSK	50	28	22.20	22.83	22.76	24.0	0.0	
20	PUSC BPSK	50	58	22.20	22.44	22.40	23.5	0.5	
20	PUSC BPSK	100	0	22.21	22.29	22.24	24.0	0.0	
20	QPSK	1	1	22.70	22.81	22.84			
20	QPSK	1	53	22.82	22.86	22.89	24.0	0.0	
20	QPSK	1	104	22.88	22.81	22.73			
20	QPSK	50	0	21.70	21.87	21.73	23.0	1.0	
20	QPSK	50	28	22.70	22.79	22.71	24.0	0.0	
20	QPSK	50	58	21.82	21.90	21.77	23.0	1.0	
20	QPSK	100	0	21.68	21.77	21.61	23.0	1.0	
20	16QAM	1	1	21.43	21.46	21.55	23.0	1.0	
20	16QAM	1	1	19.90	20.01	20.02	21.5	2.5	
20	256QAM	1	1	18.60	18.87	18.90	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.64	22.77	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.70	22.85	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.80	22.75	24.0	0.0	

n66 Ant0 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC BPSK	1	1	19.40	19.38	19.47			
40	PUSC BPSK	1	168	19.50	19.46	19.37	20.8	0.0	
40	PUSC BPSK	1	214	19.40	19.43	19.38			
40	PUSC BPSK	108	0	19.33	19.39	19.41	20.8	0.0	
40	PUSC BPSK	108	54	19.38	19.43	19.40	20.8	0.0	
40	PUSC BPSK	108	108	19.31	19.44	19.37	20.8	0.0	
40	PUSC BPSK	216	0	19.36	19.40	19.33	20.8	0.0	
40	QPSK	1	1	19.40	19.38	19.42			
40	QPSK	1	168	19.28	19.41	19.44	20.8	0.0	
40	QPSK	1	214	19.33	19.39	19.31			
40	QPSK	108	0	19.41	19.38	19.38	20.8	0.0	
40	QPSK	108	54	19.33	19.45	19.35	20.8	0.0	
40	QPSK	108	108	19.30	19.30	19.43	20.8	0.0	
40	QPSK	216	0	19.41	19.42	19.39	20.8	0.0	
40	16QAM	1	1	19.40	19.44	19.41	20.8	0.0	
40	16QAM	1	1	19.32	19.43	19.39	20.8	0.0	
40	256QAM	1	1	18.33	18.37	18.33	20.3	0.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.34	19.42	19.37	20.8	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.37	19.39	19.34	20.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.34	19.36	19.29	20.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.33	19.40	19.35	20.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.34	19.38	19.31	20.8	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.40	19.44	19.38	20.8	0.0	

n2 Ant1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (GHz)	MFR (dB)	
Channel									
Frequency (MHz)				37400	37600	37800			
40	Pi2 BPSK	1	1	19.21	19.25	19.17			
40	Pi2 BPSK	1	108	19.19	19.19	19.29	20.4	0.0	
40	Pi2 BPSK	1	214	19.04	19.18	18.99			
40	Pi2 BPSK	108	0	19.08	19.12	19.04	20.4	0.0	
40	Pi2 BPSK	108	54	19.09	19.13	19.12	20.4	0.0	
40	Pi2 BPSK	108	108	19.01	19.18	19.02	20.4	0.0	
40	Pi2 BPSK	216	0	19.08	19.07	18.96			
40	QPSK	1	1	19.14	19.28	19.19			
40	QPSK	1	108	19.01	19.19	19.13	20.4	0.0	
40	QPSK	1	214	19.04	19.19	19.09			
40	QPSK	108	0	19.11	19.01	19.06	20.4	0.0	
40	QPSK	108	54	19.02	19.16	19.03	20.4	0.0	
40	QPSK	108	108	19.03	19.04	19.14	20.4	0.0	
40	QPSK	216	0	19.07	19.10	19.02			
40	HEGAM	1	1	19.12	19.25	19.11	20.4	0.0	
40	HEGAM	1	1	19.03	19.14	19.02	20.4	0.0	
40	HEGAM	1	1	19.11	19.05	19.00	20.4	0.0	
Channel									
Frequency (MHz)				37800	37600	37800	Tune-up limit (GHz)	MFR (dB)	
30	QPSK	1	1	19.02	19.02	18.90	20.4	0.0	
Channel									
Frequency (MHz)				37250	37600	37650	Tune-up limit (GHz)	MFR (dB)	
25	QPSK	1	1	18.99	19.11	19.10	20.4	0.0	
Channel									
Frequency (MHz)				37200	37600	38000	Tune-up limit (GHz)	MFR (dB)	
20	QPSK	1	1	19.01	19.21	19.00	20.4	0.0	
Channel									
Frequency (MHz)				37150	37600	38050	Tune-up limit (GHz)	MFR (dB)	
16	QPSK	1	1	19.09	19.22	19.03	20.4	0.0	
Channel									
Frequency (MHz)				37100	37600	38100	Tune-up limit (GHz)	MFR (dB)	
10	QPSK	1	1	19.10	19.14	18.99	20.4	0.0	
Channel									
Frequency (MHz)				37050	37600	38150	Tune-up limit (GHz)	MFR (dB)	
5	QPSK	1	1	19.03	19.18	18.88	20.4	0.0	

n5 Ant1 EC12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (GHz)	MFR (dB)	
Channel									
Frequency (MHz)				854	861.5	869			
20	Pi2 BPSK	1	1	22.51	22.66	22.54			
20	Pi2 BPSK	1	51	22.65	22.61	22.47	24.0	0.0	
20	Pi2 BPSK	1	104	22.63	22.74	22.59			
20	Pi2 BPSK	50	0	22.07	22.19	22.09	23.5	0.5	
20	Pi2 BPSK	50	28	22.65	22.66	22.58	24.0	0.0	
20	Pi2 BPSK	50	56	22.07	22.21	22.15	23.5	0.5	
20	Pi2 BPSK	100	0	22.01	22.14	22.07			
20	QPSK	1	1	22.55	22.79	22.63			
20	QPSK	1	53	22.59	22.65	22.52	24.0	0.0	
20	QPSK	1	104	22.64	22.72	22.66			
20	QPSK	50	0	21.98	21.92	21.86	23.0	1.0	
20	QPSK	50	28	22.48	22.62	22.47	24.0	0.0	
20	QPSK	50	56	21.98	21.87	21.92	23.0	1.0	
20	QPSK	100	0	21.92	21.83	21.88	23.0	1.0	
20	HEGAM	1	1	21.21	21.29	21.25	23.0	1.0	
20	HEGAM	1	1	19.70	19.88	19.93	21.5	2.5	
20	HEGAM	1	1	19.70	19.88	19.71	19.5	4.5	
Channel									
Frequency (MHz)				16630	16730	16830	Tune-up limit (GHz)	MFR (dB)	
15	QPSK	1	1	23.52	23.63	23.49	24.0	0.0	
Channel									
Frequency (MHz)				16580	16730	16830	Tune-up limit (GHz)	MFR (dB)	
10	QPSK	1	1	23.45	23.55	23.54	24.0	0.0	
Channel									
Frequency (MHz)				16530	16730	16830	Tune-up limit (GHz)	MFR (dB)	
5	QPSK	1	1	23.48	23.58	23.44	24.0	0.0	

n66 Ant1 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (GHz)	MFR (dB)	
Channel									
Frequency (MHz)				1730	1745	1760			
40	Pi2 BPSK	1	1	18.98	18.90	18.91			
40	Pi2 BPSK	1	108	19.04	19.09	18.74	19.3	0.0	
40	Pi2 BPSK	1	214	18.90	18.96	18.81			
40	Pi2 BPSK	108	0	18.94	19.04	18.88	19.3	0.0	
40	Pi2 BPSK	108	54	19.03	19.08	18.96	19.3	0.0	
40	Pi2 BPSK	108	108	18.78	19.02	18.88	19.3	0.0	
40	Pi2 BPSK	216	0	18.87	18.83	18.78			
40	QPSK	1	1	19.06	19.11	18.93			
40	QPSK	1	108	18.86	18.91	18.88	19.3	0.0	
40	QPSK	1	214	18.87	18.92	18.81			
40	QPSK	108	0	19.05	18.93	18.89	19.3	0.0	
40	QPSK	108	54	18.85	19.02	18.88	19.3	0.0	
40	QPSK	108	108	18.84	18.87	18.89	19.3	0.0	
40	QPSK	216	0	18.88	18.97	18.84			
40	HEGAM	1	1	18.97	19.04	18.91	19.3	0.0	
40	HEGAM	1	1	18.17	18.99	18.80	19.3	0.0	
40	HEGAM	1	1	18.97	18.82	18.78	19.3	0.0	
Channel									
Frequency (MHz)				34900	34900	35000	Tune-up limit (GHz)	MFR (dB)	
30	QPSK	1	1	19.20	19.20	19.05	19.3	0.0	
Channel									
Frequency (MHz)				34850	34900	35000	Tune-up limit (GHz)	MFR (dB)	
25	QPSK	1	1	19.15	19.20	18.97	19.3	0.0	
Channel									
Frequency (MHz)				34800	34900	34900	Tune-up limit (GHz)	MFR (dB)	
20	QPSK	1	1	19.17	19.22	19.05	19.3	0.0	
Channel									
Frequency (MHz)				34750	34900	34900	Tune-up limit (GHz)	MFR (dB)	
16	QPSK	1	1	19.22	19.17	19.02	19.3	0.0	
Channel									
Frequency (MHz)				34700	34900	35000	Tune-up limit (GHz)	MFR (dB)	
10	QPSK	1	1	19.14	19.18	19.01	19.3	0.0	
Channel									
Frequency (MHz)				34650	34900	35000	Tune-up limit (GHz)	MFR (dB)	
5	QPSK	1	1	19.17	19.15	19.01	19.3	0.0	

n48 Ant3 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (GHz)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PL2 BPSK	1	1	21.87	21.75	21.79			
40	PL2 BPSK	1	53	21.91	21.80	21.83	23.4	0.0	
40	PL2 BPSK	1	104	21.80	21.89	21.72			
40	PL2 BPSK	50	0	21.79	21.86	21.73	23.4	0.0	
40	PL2 BPSK	50	26	21.79	21.71	21.84	23.4	0.0	
40	PL2 BPSK	50	56	21.78	21.80	21.83	23.4	0.0	
40	PL2 BPSK	100	0	21.89	21.73	21.89			
40	QPSK	1	1	21.90	21.87	21.72			
40	QPSK	1	53	21.78	21.85	21.67	23.4	0.0	
40	QPSK	1	104	21.83	21.88	21.82			
40	QPSK	50	0	21.31	21.46	21.39	22.9	0.5	
40	QPSK	50	26	21.77	21.83	21.68	23.4	0.0	
40	QPSK	50	56	21.03	21.18	21.11	22.9	0.5	
40	QPSK	100	0	21.08	21.33	21.18			
40	HQAM	1	1	21.10	21.15	21.05	22.9	0.5	
40	HQAM	1	1	19.87	19.77	19.81	21.4	2.0	
40	SSBAM	1	1	19.31	19.33	19.24	19.4	4.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.74	21.52	21.61	23.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.15	21.82	21.68	23.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.25	21.35	21.35	23.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.80	21.82	21.84	23.4	0.0	

Par270 n77_FCC PC2&PC3 Ant3 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (GHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	19.60	19.80	19.73			
100	PL2 BPSK	1	137	19.81	19.82	19.78	21.0	0.0	
100	PL2 BPSK	1	271	19.67	19.81	19.72			
100	PL2 BPSK	135	0	19.64	19.78	19.64	21.0	0.0	
100	PL2 BPSK	135	69	19.70	19.78	19.68	21.0	0.0	
100	PL2 BPSK	135	138	19.73	19.85	19.78	21.0	0.0	
100	PL2 BPSK	270	0	19.73	19.80	19.72			
100	QPSK	1	1	19.88	19.96	19.86			
100	QPSK	1	137	19.64	19.80	19.86	21.0	0.0	
100	QPSK	1	271	19.71	19.77	19.72			
100	QPSK	135	0	19.65	19.87	19.56	21.0	0.0	
100	QPSK	135	69	19.67	19.95	19.86	21.0	0.0	
100	QPSK	135	138	19.68	19.78	19.63	21.0	0.0	
100	QPSK	270	0	19.72	19.88	19.76			
100	HQAM	1	1	19.60	19.67	19.52	21.0	0.0	
100	HQAM	1	1	19.72	19.88	19.80	21.0	0.0	
100	SSBAM	1	1	19.38	19.39	19.38	21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.83	19.90	19.70	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.73	19.81	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.73	19.90	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.73	19.86	19.70	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.82	19.83	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.73	19.90	19.77	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.80	19.86	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.70	19.84	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.83	19.80	19.76	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.77	19.83	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.80	19.89	19.80	21.0	0.0	

Par270 n77_FCC PC2&PC3 Ant3 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (GHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1						
100	PL2 BPSK	1	137				21.0	0.0	
100	PL2 BPSK	1	271						
100	PL2 BPSK	135	0				21.0	0.0	
100	PL2 BPSK	135	69				21.0	0.0	
100	PL2 BPSK	135	138				21.0	0.0	
100	PL2 BPSK	270	0						
100	QPSK	1	1						
100	QPSK	1	137				21.0	0.0	
100	QPSK	1	271						
100	QPSK	135	0				21.0	0.0	
100	QPSK	135	69				21.0	0.0	
100	QPSK	135	138				21.0	0.0	
100	QPSK	270	0						
100	QPSK	1	1						
100	HQAM	1	1				21.0	0.0	
100	HQAM	1	1				21.0	0.0	
100	HQAM	1	1				21.0	0.0	
100	SSBAM	1	1				21.0	0.0	
100	SSBAM	1	1				21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.10	20.10	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.10	20.14	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.18	20.19	20.02	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.11	20.16	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.14	20.14	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.11	20.10	20.11	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.16	20.19	20.09	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.08	20.15	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.19	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.11	20.16	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.19	20.18	20.11	21.0	0.0	

Part270 n78_FCC PC3 Ant3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	19.55	19.55	19.55			
100	PL2 BPSK	1	137	19.65	19.65	19.65	21.0	0.0	
100	PL2 BPSK	1	271	19.55	19.55	19.55			
100	PL2 BPSK	135	0	19.55	19.55	19.55	21.0	0.0	
100	PL2 BPSK	135	69	19.55	19.55	19.55	21.0	0.0	
100	PL2 BPSK	135	138	19.67	19.67	19.67	21.0	0.0	
100	PL2 BPSK	270	0	19.66	19.66	19.66			
100	QPSK	1	1	19.24	19.24	19.24			
100	QPSK	1	137	19.58	19.58	19.58	21.0	0.0	
100	QPSK	1	271	19.52	19.52	19.52			
100	QPSK	135	0	19.50	19.50	19.50	21.0	0.0	
100	QPSK	135	69	19.72	19.72	19.72	21.0	0.0	
100	QPSK	135	138	19.64	19.64	19.64	21.0	0.0	
100	QPSK	270	0	19.66	19.66	19.66			
100	HQAM	1	1	19.42	19.42	19.42	21.0	0.0	
100	HQAM	1	1	19.56	19.56	19.56	21.0	0.0	
100	HQAM	1	1	18.13	18.13	18.13	19.5	1.5	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.62	19.62	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.54	19.54	19.54	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.57	19.57	19.57	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.69	19.69	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.62	19.62	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.54	19.54	19.54	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.67	19.67	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.61	19.61	19.61	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.63	19.63	19.63	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.65	19.65	19.65	21.0	0.0	

Part27Q 78_FCC PC3 Ant3 EC16									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up Int. (min)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	19.41	19.41	19.41			
100	PL2 BPSK	1	137	19.60	19.60	19.60	21.0	0.0	
100	PL2 BPSK	1	271	19.49	19.49	19.49			
100	PL2 BPSK	135	0	19.42	19.42	19.42	21.0	0.0	
100	PL2 BPSK	135	69	19.45	19.45	19.45	21.0	0.0	
100	PL2 BPSK	135	138	19.61	19.61	19.61	21.0	0.0	
100	PL2 BPSK	270	0	19.57	19.57	19.57			
100	QPSK	1	1	19.55	19.55	19.55			
100	QPSK	1	137	19.47	19.47	19.47	21.0	0.0	
100	QPSK	1	271	19.43	19.43	19.43			
100	QPSK	135	0	19.42	19.42	19.42	20.0	1.0	
100	QPSK	135	69	19.53	19.53	19.53	21.0	0.0	
100	QPSK	135	138	19.48	19.48	19.48	20.0	1.0	
100	QPSK	270	0	19.56	19.56	19.56			
100	HQAM	1	1	19.30	19.30	19.30	21.0	0.0	
100	HQAM	1	1	19.44	19.44	19.44	21.0	0.0	
100	HQAM	1	1	19.21	19.21	19.21	19.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.56	19.56	19.56	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.57	19.57	19.57	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.56	19.56	19.56	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.53	19.53	19.53	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.56	19.56	19.56	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.55	19.55	19.55	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.52	19.52	19.52	21.0	0.0	



n48 Ant4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
48	PL2 BPSK	1	1	19.16	18.92	19.15			
48	PL2 BPSK	1	63	19.07	19.14	19.06	20.8	0.0	
48	PL2 BPSK	1	104	19.00	19.04	19.06	20.8	0.0	
48	PL2 BPSK	50	0	19.00	19.01	19.00	20.8	0.0	
48	PL2 BPSK	50	39	19.05	19.11	19.00	20.8	0.0	
48	PL2 BPSK	50	56	18.97	19.13	18.92	20.8	0.0	
48	PL2 BPSK	100	0	19.01	19.00	18.84			
48	QPSK	1	1	19.11	19.20	19.07			
48	QPSK	1	63	18.97	18.98	19.06	20.8	0.0	
48	QPSK	1	104	18.93	19.08	18.92			
48	QPSK	50	0	19.02	18.99	19.05	20.8	0.0	
48	QPSK	50	26	19.03	19.26	19.02	20.8	0.0	
48	QPSK	50	56	19.01	18.93	19.11	20.8	0.0	
48	QPSK	100	0	19.02	19.01	19.08			
48	16QAM	1	1	19.08	19.20	19.04	20.8	0.0	
48	16QAM	1	1	19.15	19.12	19.18	20.8	0.0	
48	256QAM	1	1	17.84	17.88	17.79	19.3	1.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83768	84166	84568	Tune-up limit (MHz)	MPR (dB)	
30	QPSK	1	1	83768	84166	84568	20.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83718	84166	84618	Tune-up limit (MHz)	MPR (dB)	
20	QPSK	1	1	83718	84166	84618	20.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83700	84166	84632	Tune-up limit (MHz)	MPR (dB)	
15	QPSK	1	1	83700	84166	84632	20.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	8324	8353	8320	20.8	0.0	

Par270 n77_FCC PC2&PC3 Ant4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	17.15	17.47	17.13			
100	PL2 BPSK	1	137	17.31	17.48	17.18	18.8	0.0	
100	PL2 BPSK	1	271	17.17	17.50	17.12			
100	PL2 BPSK	135	0	17.14	17.52	17.04	18.8	0.0	
100	PL2 BPSK	135	69	17.29	17.48	17.08	18.8	0.0	
100	PL2 BPSK	135	138	17.21	17.51	17.18	18.8	0.0	
100	PL2 BPSK	270	0	17.23	17.52	17.12			
100	QPSK	1	1	17.38	17.47	17.25			
100	QPSK	1	137	17.14	17.37	17.06	18.8	0.0	
100	QPSK	1	271	17.21	17.44	17.12			
100	QPSK	135	0	17.13	17.46	16.96	18.8	0.0	
100	QPSK	135	69	17.37	17.49	17.26	18.8	0.0	
100	QPSK	135	138	17.18	17.40	17.03	18.8	0.0	
100	QPSK	270	0	17.22	17.53	17.16			
100	16QAM	1	1	17.10	17.45	16.92	18.8	0.0	
100	16QAM	1	1	17.23	17.39	17.20	18.8	0.0	
100	256QAM	1	1	17.88	17.42	16.98	19.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84948	85600	86234	Tune-up limit (MHz)	MPR (dB)	
90	QPSK	1	1	84948	85600	86234	19.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	84934	85600	86268	Tune-up limit (MHz)	MPR (dB)	
80	QPSK	1	1	84934	85600	86268	19.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	84743	85600	86300	Tune-up limit (MHz)	MPR (dB)	
70	QPSK	1	1	84743	85600	86300	19.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	84688	85600	86334	Tune-up limit (MHz)	MPR (dB)	
60	QPSK	1	1	84688	85600	86334	19.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	84634	85600	86368	Tune-up limit (MHz)	MPR (dB)	
50	QPSK	1	1	84634	85600	86368	19.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	84600	85600	86400	Tune-up limit (MHz)	MPR (dB)	
40	QPSK	1	1	84600	85600	86400	19.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	84598	85600	86400	Tune-up limit (MHz)	MPR (dB)	
30	QPSK	1	1	84598	85600	86400	19.3	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	84590	85600	86400	Tune-up limit (MHz)	MPR (dB)	
25	QPSK	1	1	84590	85600	86400	19.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	84588	85600	86400	Tune-up limit (MHz)	MPR (dB)	
20	QPSK	1	1	84588	85600	86400	19.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	84570	85600	86400	Tune-up limit (MHz)	MPR (dB)	
15	QPSK	1	1	84570	85600	86400	19.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	84548	85600	86400	Tune-up limit (MHz)	MPR (dB)	
10	QPSK	1	1	84548	85600	86400	19.3	0.0	

Part27Q n77_FCC PC2&PC3 Ant4 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	17.07					
100	PL2 BPSK	1	137	17.25			18.8	0.0	
100	PL2 BPSK	1	271	17.06					
100	PL2 BPSK	135	0	17.01			18.8	0.0	
100	PL2 BPSK	135	69	17.09			18.8	0.0	
100	PL2 BPSK	135	138	17.01			18.8	0.0	
100	PL2 BPSK	270	0	17.03					
100	QPSK	1	1	17.04					
100	QPSK	1	137	17.22			18.8	0.0	
100	QPSK	1	271	17.05					
100	QPSK	135	0	17.05			18.8	0.0	
100	QPSK	135	69	17.06			18.8	0.0	
100	QPSK	135	138	17.08			18.8	0.0	
100	QPSK	270	0	17.09					
100	16QAM	1	1	17.03			18.8	0.0	
100	16QAM	1	1	17.03			18.8	0.0	
100	256QAM	1	1	17.03			18.8	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83300	83334	83368	Tune-up limit (MHz)	MPR (dB)	
90	QPSK	1	1	83300	83334	83368	19.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83268	83334	83400	Tune-up limit (MHz)	MPR (dB)	
80	QPSK	1	1	83268	83334	83400	19.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	83234	83334	83434	Tune-up limit (MHz)	MPR (dB)	
70	QPSK	1	1	83234	83334	83434	19.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83200	83334	83468	Tune-up limit (MHz)	MPR (dB)	
60	QPSK	1	1	83200	83334	83468	19.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	83168	83334	83500	Tune-up limit (MHz)	MPR (dB)	
50	QPSK	1	1	83168	83334	83500	19.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83134	83334	83534	Tune-up limit (MHz)	MPR (dB)	
40	QPSK	1	1	83134	83334	83534	19.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83100	83334	83568	Tune-up limit (MHz)	MPR (dB)	
30	QPSK	1	1	83100	83334	83568	19.3	0.0	
Channel									
Frequency (MHz)									
26	QPSK	1	1	83068	83334	83600	Tune-up limit (MHz)	MPR (dB)	
26	QPSK	1	1	83068	83334	83600	19.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83034	83334	83634	Tune-up limit (MHz)	MPR (dB)	
20	QPSK	1	1	83034	83334	83634	19.3	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	83000	83334	83668	Tune-up limit (MHz)	MPR (dB)	
16	QPSK	1	1	83000	83334	83668	19.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	82968	83334	83700	Tune-up limit (MHz)	MPR (dB)	
10	QPSK	1	1	82968	83334	83700	19.3	0.0	

Part270 n78_FCC PC3 Ant4 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (GHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	17.03					
100	P12 BPSK	1	1	17.03			18.8	0.0	
100	P12 BPSK	1	271	17.08					
100	P12 BPSK	135	0	17.18			18.8	0.0	
100	P12 BPSK	135	69	17.08			18.8	0.0	
100	P12 BPSK	135	138	17.07			18.8	0.0	
100	P12 BPSK	270	0	17.11					
100	QPSK	1	1	17.20					
100	QPSK	1	137	17.21			18.8	0.0	
100	QPSK	1	271	17.09					
100	QPSK	135	0	17.24			18.8	0.0	
100	QPSK	135	69	17.10			18.8	0.0	
100	QPSK	135	138	17.01			18.8	0.0	
100	QPSK	270	0	17.20					
100	16QAM	1	1	17.61			18.8	0.0	
100	16QAM	1	1	17.18			18.8	0.0	
100	256QAM	1	1	17.20			18.8	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.52	17.51	17.22	18.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.54	17.21	17.10	18.8	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.20	17.14	17.15	18.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.52	17.16	17.13	18.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.20	17.11	17.18	18.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.50	17.21	17.11	18.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.19	17.17	17.16	18.8	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.20	17.18	17.18	18.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.11	17.15	17.14	18.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.16	17.14	17.17	18.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.18	17.22	17.13	18.8	0.0	

Part27Q 78_FCC PC3 Ant4 EC16									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (GHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	17.18					
100	P12 BPSK	1	137	17.15			18.8	0.0	
100	P12 BPSK	1	271	17.21					
100	P12 BPSK	135	0	17.29			18.8	0.0	
100	P12 BPSK	135	69	17.12			18.8	0.0	
100	P12 BPSK	135	138	17.20			18.8	0.0	
100	P12 BPSK	270	0	17.20					
100	QPSK	1	1	17.27					
100	QPSK	1	137	17.29			18.8	0.0	
100	QPSK	1	271	17.19					
100	QPSK	135	0	17.18			18.8	0.0	
100	QPSK	135	69	17.20			18.8	0.0	
100	QPSK	135	138	17.07			18.8	0.0	
100	QPSK	270	0	17.20					
100	16QAM	1	1	17.09			18.8	0.0	
100	16QAM	1	1	17.23			18.8	0.0	
100	256QAM	1	1	17.09			18.8	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.24	17.26	17.24	18.8	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.25	17.22	17.32	18.8	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.26	17.31	17.31	18.8	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.23	17.31	17.26	18.8	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.27	17.26	17.29	18.8	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.26	17.21	17.32	18.8	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.26	17.32	17.24	18.8	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.29	17.32	17.25	18.8	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.29	17.31	17.27	18.8	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.25	17.31	17.27	18.8	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.23	17.26	17.30	18.8	0.0	

n48 Ant5 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
48	PL2 BPSK	1	1	21.03	21.07	20.92			
48	PL2 BPSK	1	63	21.08	21.10	21.02	21.9	0.0	
48	PL2 BPSK	1	104	21.04	21.09	20.94			
48	PL2 BPSK	50	0	20.99	21.03	20.87	21.9	0.0	
48	PL2 BPSK	50	38	20.85	20.86	20.82	21.9	0.0	
48	PL2 BPSK	50	56	20.92	20.94	20.80			
48	PL2 BPSK	100	0	20.82	20.88	20.88			
48	QPSK	1	1	21.01	21.11	21.09			
48	QPSK	1	63	21.03	21.03	21.02	21.9	0.0	
48	QPSK	1	104	21.10	21.05	20.96			
48	QPSK	50	0	20.96	21.04	21.00	21.9	0.0	
48	QPSK	50	26	20.96	21.06	20.99	21.9	0.0	
48	QPSK	50	56	20.92	20.90	20.96			
48	QPSK	100	0	20.97	21.02	20.92	21.9	0.0	
48	HQAM	1	1	20.70	20.83	20.72	21.9	0.0	
48	HQAM	1	1	20.81	20.85	20.78	21.9	0.0	
48	SSBAM	1	1	19.29	19.43	19.30	19.9	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83768	84166	84566	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83734	84166	84500	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.05	21.09	20.96	21.9	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83782	84269	84820	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	83750	84166	84632	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.09	21.03	21.08	21.9	0.0	

Par270 n77 Ant5 ECI6 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	19.64	19.80	19.77			
100	PL2 BPSK	1	137	19.74	19.82	19.87	21.4	0.0	
100	PL2 BPSK	1	271	19.61	19.75	19.68			
100	PL2 BPSK	135	0	19.70	19.93	19.80	21.4	0.0	
100	PL2 BPSK	135	69	19.80	20.04	19.86	21.4	0.0	
100	PL2 BPSK	135	138	19.70	19.90	19.86			
100	PL2 BPSK	270	0	19.82	19.97	19.85			
100	QPSK	1	1	20.22	20.24	20.10			
100	QPSK	1	137	19.74	19.91	19.88	21.4	0.0	
100	QPSK	1	271	19.67	20.12	19.97			
100	QPSK	135	0	19.80	19.89	19.87	21.4	0.0	
100	QPSK	135	69	19.80	20.08	20.04	21.4	0.0	
100	QPSK	135	138	19.67	19.83	19.73			
100	QPSK	270	0	19.89	19.95	19.87			
100	HQAM	1	1	19.52	19.57	19.48	21.4	0.0	
100	SDAM	1	1	19.61	19.94	19.48	21.4	0.0	
100	SSBAM	1	1	19.69	19.78	19.61	21.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84948	85000	85234	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	84934	85000	85068	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.19	20.15	20.07	21.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	84834	84900	85000	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	84808	84900	85034	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.12	20.11	20.07	21.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	84834	84900	85068	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.13	20.09	19.94	21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.12	20.08	20.07	21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	84768	84900	85434	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.05	20.19	20.05	21.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	84750	84900	85450	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.18	20.17	20.07	21.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	84734	84900	85468	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.05	20.15	19.95	21.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	84718	84900	85484	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.08	20.07	20.06	21.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	84700	84900	85500	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.07	20.21	20.00	21.4	0.0	

Par270 n77 Ant5 ECI6 PC2&PC3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	19.64	19.80	19.77			
100	PL2 BPSK	1	137	19.74	19.82	19.87	21.4	0.0	
100	PL2 BPSK	1	271	19.61	19.75	19.68			
100	PL2 BPSK	135	0	19.70	19.93	19.80	21.4	0.0	
100	PL2 BPSK	135	69	19.80	20.04	19.86	21.4	0.0	
100	PL2 BPSK	135	138	19.70	19.90	19.86			
100	PL2 BPSK	270	0	19.82	19.97	19.85			
100	QPSK	1	1	20.22	20.24	20.10			
100	QPSK	1	137	19.74	19.91	19.88	21.4	0.0	
100	QPSK	1	271	19.67	20.12	19.97			
100	QPSK	135	0	19.80	19.89	19.87	21.4	0.0	
100	QPSK	135	69	19.80	20.08	20.04	21.4	0.0	
100	QPSK	135	138	19.67	19.83	19.73			
100	QPSK	270	0	19.89	19.95	19.87			
100	HQAM	1	1	19.52	19.57	19.48	21.4	0.0	
100	SDAM	1	1	19.61	19.94	19.48	21.4	0.0	
100	SSBAM	1	1	19.69	19.78	19.61	21.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83900	83934	83968	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	83868	83934	83900	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.26	20.21	20.29	21.4	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	83234	83334	83434	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.27	20.22	20.24	21.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	83200	83334	83468	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.23	20.23	20.24	21.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	83168	83334	83500	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.18	20.25	20.18	21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83134	83334	83334	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.27	20.22	20.22	21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	83100	83334	83568	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.19	20.19	20.20	21.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	83034	83334	83584	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
26	QPSK	1	1	20.27	20.18	20.28	21.4	0.0	
Channel									
Frequency (MHz)									
26	QPSK	1	1	83068	83334	83600	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.28	20.28	20.28	21.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	83000	83334	83618	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	1	20.19	20.24	20.13	21.4	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	83034	83334	83634	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.23	20.15	20.19	21.4	0.0	

Part270 n78_FCC PC3 Ant5 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	19.87	19.87				
100	P12 BPSK	1	1	19.78	19.78		21.4	0.0	
100	P12 BPSK	1	271	19.85	19.85				
100	P12 BPSK	135	0	19.78	19.78		21.4	0.0	
100	P12 BPSK	135	69	19.84	19.84		21.4	0.0	
100	P12 BPSK	135	138	19.73	19.73		21.4	0.0	
100	P12 BPSK	270	0	19.77	19.77				
100	QPSK	1	1	19.84	19.84		21.4	0.0	
100	QPSK	1	137	19.87	19.87				
100	QPSK	1	271	19.92	19.92				
100	QPSK	135	0	19.80	19.80		21.4	0.0	
100	QPSK	135	69	19.83	19.83		21.4	0.0	
100	QPSK	135	138	19.87	19.87		21.4	0.0	
100	QPSK	270	0	19.77	19.77				
100	16QAM	1	1	19.47	19.47		21.4	0.0	
100	16QAM	1	1	19.47	19.47		21.4	0.0	
100	16QAM	1	1	19.27	19.27		21.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.83	19.83		21.4	0.0	
Channel									
Frequency (MHz)									
85	QPSK	1	1	19.87	19.87		21.4	0.0	
Channel									
Frequency (MHz)									
75	QPSK	1	1	19.85	19.85		21.4	0.0	
Channel									
Frequency (MHz)									
65	QPSK	1	1	19.83	19.83		21.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.84	19.84		21.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.83	19.83		21.4	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.80	19.80		21.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.85	19.85		21.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.85	19.85		21.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.88	19.88		21.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.82	19.82		21.4	0.0	

Part27Q n78_FCC PC3 Ant5 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	19.85	19.85				
100	P12 BPSK	1	137	19.90	19.90		21.4	0.0	
100	P12 BPSK	1	271	19.92	19.92				
100	P12 BPSK	135	0	19.80	19.80		21.4	0.0	
100	P12 BPSK	135	69	19.81	19.81		21.4	0.0	
100	P12 BPSK	135	138	19.85	19.85		21.4	0.0	
100	P12 BPSK	270	0	19.86	19.86				
100	QPSK	1	1	19.84	19.84		21.4	0.0	
100	QPSK	1	137	19.92	19.92				
100	QPSK	1	271	19.96	19.96				
100	QPSK	135	0	19.83	19.83		21.4	0.0	
100	QPSK	135	69	19.86	19.86		21.4	0.0	
100	QPSK	135	138	19.94	19.94		21.4	0.0	
100	QPSK	270	0	19.91	19.91				
100	16QAM	1	1	19.58	19.58		21.4	0.0	
100	16QAM	1	1	19.60	19.60		21.4	0.0	
100	16QAM	1	1	19.68	19.68		21.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.93	19.93		20.0	0.0	
Channel									
Frequency (MHz)									
85	QPSK	1	1	19.99	19.99		20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.03	20.03		19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.99	19.99		19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.02	20.02		20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.02	20.02		19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.96	19.96		20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	19.97		20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.03	20.03		20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.01	20.01		19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.00	20.00		19.5	0.0	

n48 Ant8 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
48	PL2 BPSK	1	1	17.15	17.07	17.15			
48	PL2 BPSK	1	63	17.13	17.14	16.98	18.0	0.0	
48	PL2 BPSK	1	104	17.06	17.18	16.99			
48	PL2 BPSK	50	0	17.05	17.14	17.00	18.0	0.0	
48	PL2 BPSK	50	38	17.13	17.16	17.08	18.0	0.0	
48	PL2 BPSK	50	56	16.97	17.16	17.06			
48	PL2 BPSK	100	0	17.08	17.01	16.91	18.0	0.0	
48	QPSK	1	1	17.09	17.24	17.14			
48	QPSK	1	63	17.02	17.14	17.16	18.0	0.0	
48	QPSK	1	104	16.99	17.06	17.00			
48	QPSK	50	0	17.08	16.99	17.06	18.0	0.0	
48	QPSK	50	26	16.96	17.16	17.00	18.0	0.0	
48	QPSK	50	56	17.06	17.01	17.07			
48	QPSK	100	0	17.10	17.12	16.97	18.0	0.0	
48	HQAM	1	1	17.01	17.09	17.08	18.0	0.0	
48	HQAM	1	1	16.99	17.07	16.98	18.0	0.0	
48	SSBAM	1	1	17.13	17.00	17.00	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.99	17.11	17.07			
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.03	17.15	17.10	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.05	17.15	17.15	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.00	17.18	17.23	18.0	0.0	

Par270 n77_FCC PC2&PC3 Ant8 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	18.92	18.01	18.96			
100	PL2 BPSK	1	137	18.01	18.07	18.00	17.3	0.0	
100	PL2 BPSK	1	271	18.04	18.14	18.09			
100	PL2 BPSK	135	0	18.02	18.08	18.00	17.3	0.0	
100	PL2 BPSK	135	69	18.08	18.18	18.12	17.3	0.0	
100	PL2 BPSK	135	138	18.00	18.13	18.07	17.3	0.0	
100	PL2 BPSK	270	0	18.02	18.08	18.00			
100	QPSK	1	1	18.14	18.00	18.00			
100	QPSK	1	137	18.05	18.14	18.08	17.3	0.0	
100	QPSK	1	271	18.08	18.03	18.09			
100	QPSK	135	0	18.07	18.03	18.06	17.3	0.0	
100	QPSK	135	69	18.12	18.18	18.04	17.3	0.0	
100	QPSK	135	138	18.02	18.06	18.08	17.3	0.0	
100	QPSK	270	0	18.07	18.10	18.03			
100	HQAM	1	1	18.08	18.04	18.08	17.3	0.0	
100	HQAM	1	1	18.07	18.11	18.07	17.3	0.0	
100	SSBAM	1	1	18.05	18.00	18.01	17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.02	18.03	18.01			
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.03	18.04	18.02	17.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.04	18.08	18.05	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.01	18.12	18.07	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.02	18.07	18.00	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.02	18.14	18.05	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.00	18.11	18.03	17.3	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.00	18.04	18.08	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.00	18.08	18.09	17.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.02	18.15	18.01	17.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.00	18.05	18.04	17.3	0.0	

Part27Q n77_FCC PC2&PC3 Ant8 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (MHz)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PL2 BPSK	1	1	18.78					
100	PL2 BPSK	1	137	18.78			17.3	0.0	
100	PL2 BPSK	1	271	18.83					
100	PL2 BPSK	135	0	18.79			17.3	0.0	
100	PL2 BPSK	135	69	18.81			17.3	0.0	
100	PL2 BPSK	135	138	18.87			17.3	0.0	
100	PL2 BPSK	270	0	18.79					
100	QPSK	1	1	18.80					
100	QPSK	1	137	18.86			17.3	0.0	
100	QPSK	1	271	18.72					
100	QPSK	135	0	18.71			17.3	0.0	
100	QPSK	135	69	18.88			17.3	0.0	
100	QPSK	135	138	18.85			17.3	0.0	
100	QPSK	270	0	18.85					
100	HQAM	1	1	18.72			17.3	0.0	
100	HQAM	1	1	18.87			17.3	0.0	
100	SSBAM	1	1	18.87			17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.78	18.81	18.85	17.3	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.82	18.80	18.84	17.3	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.87	18.87	18.88	17.3	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.86	18.77	18.76	17.3	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.88	18.83	18.80	17.3	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.84	18.80	18.88	17.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.81	18.77	18.78	17.3	0.0	
Channel									
Frequency (MHz)									
26	QPSK	1	1	18.84	18.77	18.77	17.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.76	18.82	18.81	17.3	0.0	
Channel									
Frequency (MHz)									
16	QPSK	1	1	18.84	18.81	18.78	17.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.81	18.87	18.84	17.3	0.0	

Part270 n78_FCC PC3 Ant8 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	16.08	16.08				
100	P12 BPSK	1	1	16.12	16.12		17.3	0.0	
100	P12 BPSK	1	271	16.12	16.12				
100	P12 BPSK	135	0	16.08	16.08		17.3	0.0	
100	P12 BPSK	135	69	16.08	16.08				
100	P12 BPSK	135	138	16.08	16.08		17.3	0.0	
100	QPSK	1	1	16.08	16.08				
100	QPSK	1	1	16.12	16.12		17.3	0.0	
100	QPSK	1	271	16.07	16.07				
100	QPSK	135	0	16.08	16.08		16.3	1.0	
100	QPSK	135	69	16.18	16.18				
100	QPSK	135	138	16.07	16.07		16.3	1.0	
100	QPSK	270	0	16.08	16.08				
100	16QAM	1	1	16.02	16.02		17.3	0.0	
100	16QAM	1	1	16.08	16.08				
100	16QAM	1	1	16.01	16.01		17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.10	16.11	16.07			
Channel									
Frequency (MHz)									
85	QPSK	1	1	16.07	16.03	16.10			
Channel									
Frequency (MHz)									
75	QPSK	1	1	16.02	16.00	16.00			
Channel									
Frequency (MHz)									
65	QPSK	1	1	16.05	16.05	16.11			
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.05	16.08	16.08			
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.05	16.11	16.08			
Channel									
Frequency (MHz)									
35	QPSK	1	1	16.12	16.00	16.03			
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.07	16.03	16.06			
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.10	16.03	16.05			
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.13	16.08	16.07			
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.13	16.05	16.10			

Part27Q n78_FCC PC3 Ant8 ECI6									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	15.50	15.50				
100	P12 BPSK	1	131	15.58	15.58		17.3	0.0	
100	P12 BPSK	1	271	15.62	15.62				
100	P12 BPSK	135	0	15.64	15.64		17.3	0.0	
100	P12 BPSK	135	69	15.65	15.65				
100	P12 BPSK	135	138	15.66	15.66		17.3	0.0	
100	P12 BPSK	270	0	15.56	15.56				
100	QPSK	1	1	15.71	15.71				
100	QPSK	1	137	15.82	15.82		17.3	0.0	
100	QPSK	1	271	15.49	15.49				
100	QPSK	135	0	15.45	15.45		17.3	0.0	
100	QPSK	135	69	15.74	15.74				
100	QPSK	135	138	15.49	15.49		17.3	0.0	
100	QPSK	270	0	15.54	15.54				
100	16QAM	1	1	15.47	15.47		17.3	0.0	
100	16QAM	1	1	15.64	15.64				
100	16QAM	1	1	15.50	15.50		17.3	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.97	15.45	15.63			
Channel									
Frequency (MHz)									
85	QPSK	1	1	15.61	15.55	15.58			
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.81	15.60	15.63			
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.80	15.63	15.59			
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.86	15.66	15.65			
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.84	15.55	15.68			
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.67	15.61	15.63			
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.62	15.58	15.62			
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.63	15.60	15.58			
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.64	15.59	15.62			
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.59	15.67	15.66			



**Reduced Power Level for 5G NR  
ECI7**

n2 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 374000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 378000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.08	15.07	14.91			
40	PI2 BPSK	1	108	14.93	15.14	15.14	16.1	0.0	
40	PI2 BPSK	1	214	14.86	14.98	14.83			
40	PI2 BPSK	108	0	15.14	15.14	15.10	16.1	0.0	
40	PI2 BPSK	108	54	15.19	15.21	14.94	16.1	0.0	
40	PI2 BPSK	108	108	15.04	15.15	15.05			
40	PI2 BPSK	216	0	14.98	15.12	15.08	16.1	0.0	
40	QPSK	1	1	15.05	15.22	15.01			
40	QPSK	1	108	15.02	14.95	15.08	16.1	0.0	
40	QPSK	1	214	14.85	15.08	15.01			
40	QPSK	108	0	15.15	15.07	15.07	16.1	0.0	
40	QPSK	108	54	15.01	15.21	15.16	16.1	0.0	
40	QPSK	108	108	15.12	15.14	14.91	16.1	0.0	
40	QPSK	216	0	15.12	15.14	15.11			
40	16QAM	1	1	15.19	14.99	14.93	16.1	0.0	
40	16QAM	1	1	15.00	15.10	15.19	16.1	0.0	
40	256QAM	1	1	15.04	15.05	15.12	16.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.03	15.04	14.87	16.1	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	14.93	15.04	15.02	16.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.00	15.11	14.98	16.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.87	15.09	15.05	16.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.98	14.88	15.04	16.1	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.83	14.97	15.11	16.1	0.0	

n5 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 166800	Power Middle Ch. / Freq. 167300	Power High Ch. / Freq. 167800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.72	22.82	22.78			
20	PI2 BPSK	1	53	22.78	22.92	22.84	24.0	0.0	
20	PI2 BPSK	1	104	22.79	22.86	22.80			
20	PI2 BPSK	50	0	22.20	22.25	22.18	23.5	0.5	
20	PI2 BPSK	50	28	22.72	22.83	22.79	24.0	0.0	
20	PI2 BPSK	50	56	22.29	22.44	22.40			
20	PI2 BPSK	100	0	22.21	22.29	22.24	23.5	0.5	
20	QPSK	1	1	22.79	23.11	22.84			
20	QPSK	1	53	22.92	22.96	22.89	24.0	0.0	
20	QPSK	1	104	22.68	22.81	22.73			
20	QPSK	50	0	21.79	21.87	21.73	23.0	1.0	
20	QPSK	50	28	22.70	22.79	22.71	24.0	0.0	
20	QPSK	50	56	21.82	21.90	21.77			
20	QPSK	100	0	21.68	21.77	21.61	23.0	1.0	
20	16QAM	1	1	21.43	21.46	21.55	23.0	1.0	
20	16QAM	1	1	19.99	20.01	20.02	21.5	2.5	
20	256QAM	1	1	19.99	19.87	19.80	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.64	22.77	22.63	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.73	22.85	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.80	22.75	24.0	0.0	

n66 Ant0 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 346000	Power Middle Ch. / Freq. 349000	Power High Ch. / Freq. 352000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.35	15.77	15.47			
40	PI2 BPSK	1	108	15.69	15.75	15.45	16.3	0.0	
40	PI2 BPSK	1	214	15.66	15.59	15.69			
40	PI2 BPSK	108	0	15.63	15.73	15.41	16.3	0.0	
40	PI2 BPSK	108	54	15.81	15.53	15.26	16.3	0.0	
40	PI2 BPSK	108	108	15.72	15.71	15.51			
40	PI2 BPSK	216	0	15.39	15.73	15.50	16.3	0.0	
40	QPSK	1	1	15.67	15.91	15.53			
40	QPSK	1	108	15.64	15.80	15.55	16.3	0.0	
40	QPSK	1	214	15.58	15.55	15.70			
40	QPSK	108	0	15.50	15.58	15.45	16.3	0.0	
40	QPSK	108	54	15.53	15.73	15.40	16.3	0.0	
40	QPSK	108	108	15.58	15.65	15.28			
40	QPSK	216	0	15.40	15.68	15.50	16.3	0.0	
40	16QAM	1	1	15.55	15.53	15.55	16.3	0.0	
40	16QAM	1	1	15.44	15.65	15.49	16.3	0.0	
40	256QAM	1	1	15.28	15.64	15.49	16.3	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.25	15.61	15.50	16.3	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	15.27	15.67	15.52	16.3	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.23	15.59	15.40	16.3	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.30	15.64	15.41	16.3	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.27	15.69	15.38	16.3	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.22	15.74	15.49	16.3	0.0	



n2 Ant1 ECI7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				375000	379000	383000			
Frequency (MHz)				1870	1880	1890			
40	PI2 BPSK	1	1	15.84	15.96	15.91			
40	PI2 BPSK	1	108	15.83	16.00	15.85			0.0
40	PI2 BPSK	1	214	15.75	15.84	15.77			0.0
40	PI2 BPSK	108	0	15.99	16.12	16.09	17.5	0.0	
40	PI2 BPSK	108	54	16.04	16.14	16.08	17.5	0.0	
40	PI2 BPSK	108	108	15.94	16.05	15.97	17.5	0.0	
40	PI2 BPSK	216	0	15.94	16.14	15.98			
40	QPSK	1	1	15.91	16.18	16.09			0.0
40	QPSK	1	108	15.95	16.03	15.98	17.5	0.0	
40	QPSK	1	214	15.78	16.05	15.81			0.0
40	QPSK	108	0	15.97	16.04	15.99	17.5	0.0	
40	QPSK	108	54	15.88	16.05	16.00	17.5	0.0	
40	QPSK	108	108	15.93	16.01	15.92	17.5	0.0	
40	QPSK	216	0	15.89	15.98	15.92			0.0
40	16QAM	1	1	15.73	15.83	15.63	17.5	0.0	
40	16QAM	1	1	15.76	15.86	15.77	17.5	0.0	
40	25QAM	1	1	15.89	16.02	15.83	17.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1880	1895			
30	QPSK	1	1	15.81	16.11	15.93	17.5	0.0	
Channel				372500	376000	379500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1872.5	1890	1897.5			
25	QPSK	1	1	15.75	15.98	16.00	17.5	0.0	
Channel				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	QPSK	1	1	15.80	16.03	16.00	17.5	0.0	
Channel				371500	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.72	15.87	15.77	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1890	1905			
10	QPSK	1	1	15.71	15.83	15.78	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	15.72	15.88	15.76	17.5	0.0	

n5 Ant1 ECI7									
BW (MHz)	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	167500	167900			
Frequency (MHz)				834	836.5	838			
20	PI2 BPSK	1	1	22.51	22.66	22.54			
20	PI2 BPSK	1	53	22.56	22.81	22.47	23.5	0.0	
20	PI2 BPSK	1	104	22.03	22.74	22.59			0.0
20	PI2 BPSK	50	0	22.07	22.19	22.09	23.5	0.0	
20	PI2 BPSK	50	28	22.80	22.66	22.58			0.0
20	PI2 BPSK	50	56	22.07	22.21	22.16	23.5	0.0	
20	PI2 BPSK	100	0	22.01	22.14	22.07			0.0
20	QPSK	1	1	22.53	22.79	22.63			0.0
20	QPSK	1	53	22.58	22.65	22.52	23.5	0.0	
20	QPSK	1	104	22.84	22.72	22.65			0.0
20	QPSK	50	0	21.38	21.52	21.46	23.0	0.5	
20	QPSK	50	28	22.48	22.62	22.47	23.5	0.0	
20	QPSK	50	56	21.58	21.67	21.52	23.0	0.5	
20	QPSK	100	0	21.49	21.63	21.58			0.0
20	16QAM	1	1	21.21	21.29	21.25	23.0	0.5	
20	16QAM	1	1	19.79	19.88	19.83	21.5	2.0	
20	25QAM	1	1	18.70	18.88	18.71	18.5	4.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.59	23.63	23.49	23.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				839	836.5	841			
10	QPSK	1	1	23.45	22.55	22.54	23.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.48	22.58	22.44	23.5	0.0	

n66 Ant1 ECI7									
BW (MHz)	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	353000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	15.87	16.34	15.91			
40	PI2 BPSK	1	108	15.78	15.89	15.81	16.7	0.0	
40	PI2 BPSK	1	214	16.20	16.40	16.25			0.0
40	PI2 BPSK	108	0	16.31	16.49	16.37	16.7	0.0	
40	PI2 BPSK	108	54	15.97	16.30	16.06	16.7	0.0	
40	PI2 BPSK	108	108	15.97	16.33	16.20	16.7	0.0	
40	PI2 BPSK	216	0	15.99	16.15	16.08			0.0
40	QPSK	1	1	15.99	16.59	16.06			0.0
40	QPSK	1	108	15.99	16.32	16.13	16.7	0.0	
40	QPSK	1	214	16.15	16.15	16.06			0.0
40	QPSK	108	0	15.81	16.16	16.03	16.7	0.0	
40	QPSK	108	54	16.10	16.54	16.15	16.7	0.0	
40	QPSK	108	108	16.31	16.46	16.27	16.7	0.0	
40	QPSK	216	0	15.97	16.27	16.09			0.0
40	16QAM	1	1	15.88	15.94	15.74	16.7	0.0	
40	16QAM	1	1	16.43	16.08	16.15	16.7	0.0	
40	25QAM	1	1	16.47	16.12	16.22	16.7	0.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.81	16.03	15.66	16.7	0.0	
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1722.5	1745	1767.5			
25	QPSK	1	1	15.75	15.82	15.70	16.7	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.67	16.04	15.87	16.7	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.68	15.98	15.62	16.7	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.74	16.00	15.83	16.7	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.72	15.84	15.63	16.7	0.0	





n48 Ant3 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.33	17.29	17.38			
40	PI2 BPSK	1	53	17.33	17.38	17.10	18.7	0.0	
40	PI2 BPSK	1	104	17.24	17.33	17.28			
40	PI2 BPSK	50	0	17.20	17.29	17.27	18.7	0.0	
40	PI2 BPSK	50	26	17.33	17.26	17.16	18.7	0.0	
40	PI2 BPSK	50	56	17.27	17.38	17.19	18.7	0.0	
40	PI2 BPSK	100	0	17.28	17.35	17.22			
40	QPSK	1	1	17.39	17.48	17.14			
40	QPSK	1	53	17.21	17.34	17.12	18.7	0.0	
40	QPSK	1	104	17.08	17.28	17.09			
40	QPSK	50	0	17.33	17.30	17.10	18.7	0.0	
40	QPSK	50	26	17.27	17.36	17.21	18.7	0.0	
40	QPSK	50	56	17.20	17.25	17.28	18.7	0.0	
40	QPSK	100	0	17.33	17.34	17.08	18.7	0.0	
40	16QAM	1	1	17.41	17.42	17.02	18.7	0.0	
40	16QAM	1	1	17.33	17.30	17.08	18.7	0.0	
40	256QAM	1	1	17.20	17.21	17.23	18.7	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.29	17.43	17.10	18.7	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.32	17.44	17.05	18.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.23	17.24	17.25	18.7	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.32	17.41	17.07	18.7	0.0	

Par270 n77_FCC PC2&PC3 Ant3 ECI3									
BW (MHz)	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	17.72	17.71	17.69			
100	PI2 BPSK	1	137	17.66	17.70	17.49	18.1	0.0	
100	PI2 BPSK	1	271	17.62	17.75	17.57			
100	PI2 BPSK	135	0	17.53	17.70	17.57	18.1	0.0	
100	PI2 BPSK	135	69	17.64	17.62	17.50	18.1	0.0	
100	PI2 BPSK	135	138	17.61	17.68	17.59	18.1	0.0	
100	PI2 BPSK	270	0	17.68	17.71	17.58			
100	QPSK	1	1	17.72	17.79	17.52			
100	QPSK	1	137	17.61	17.75	17.49	18.1	0.0	
100	QPSK	1	271	17.65	17.64	17.44			
100	QPSK	135	0	17.69	17.65	17.46	18.1	0.0	
100	QPSK	135	69	17.60	17.75	17.61	18.1	0.0	
100	QPSK	135	138	17.52	17.59	17.60	18.1	0.0	
100	QPSK	270	0	17.70	17.73	17.40			
100	16QAM	1	1	17.76	17.74	17.38	18.1	0.0	
100	16QAM	1	1	17.75	17.72	17.44	18.1	0.0	
100	256QAM	1	1	17.61	17.61	17.71	18.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.68	17.67	17.41	18.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.57	17.70	17.38	18.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.59	17.71	17.39	18.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.69	17.73	17.46	18.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.61	17.66	17.43	18.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.66	17.65	17.59	18.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.65	17.65	17.59	18.1	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.57	17.63	17.57	18.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.66	17.65	17.39	18.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.61	17.71	17.43	18.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.63	17.64	17.44	18.1	0.0	

Par270 n77_FCC PC2&PC3 Ant3 ECI3									
BW (MHz)	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	17.51					
100	PI2 BPSK	1	137	17.54			18.1	0.0	
100	PI2 BPSK	1	271	17.58					
100	PI2 BPSK	135	0	17.57			18.1	0.0	
100	PI2 BPSK	135	69	17.51			18.1	0.0	
100	PI2 BPSK	135	138	17.50			18.1	0.0	
100	PI2 BPSK	270	0	17.58					
100	QPSK	1	1	17.65					
100	QPSK	1	137	17.60			18.1	0.0	
100	QPSK	1	271	17.68					
100	QPSK	135	0	17.54			18.1	0.0	
100	QPSK	135	69	17.57			18.1	0.0	
100	QPSK	135	138	17.42			18.1	0.0	
100	QPSK	270	0	17.53					
100	16QAM	1	1	17.53			18.1	0.0	
100	16QAM	1	1	17.61			18.1	0.0	
100	256QAM	1	1	17.24			18.1	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.53	17.61	17.50	18.1	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.54	17.53	18.1	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.52	17.53	17.53	18.1	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.58	17.59	17.60	18.1	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.54	17.56	17.52	18.1	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.59	17.51	17.55	18.1	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.57	17.42	17.52	18.1	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.59	17.54	17.53	18.1	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.58	17.50	17.58	18.1	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.59	17.59	17.52	18.1	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.54	17.57	17.49	18.1	0.0	



Part270 n78_FCC PC3 Ant3 EC13							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 650000	Power Middle Ch./Freq. 650000	Power High Ch./Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	3750	3750	3750	
100	PI2 BPSK	1	137	17.10	17.11		18.1 0.0
100	PI2 BPSK	1	271	17.22			
100	PI2 BPSK	135	0	17.12			18.1 0.0
100	PI2 BPSK	135	69	17.10			18.1 0.0
100	PI2 BPSK	135	138	17.13			18.1 0.0
100	PI2 BPSK	270	0	17.14			
100	QPSK	1	1	17.28			
100	QPSK	1	137	17.16			18.1 0.0
100	QPSK	1	271	17.23			
100	QPSK	135	0	17.08			18.1 0.0
100	QPSK	135	69	17.20			18.1 0.0
100	QPSK	135	138	17.08			18.1 0.0
100	QPSK	270	0	17.12			
100	16QAM	1	1	17.15			18.1 0.0
100	64QAM	1	1	17.19			18.1 0.0
100	256QAM	1	1	18.1			18.1 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	3495.02	3750	3755.01	MPR (dB)
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.19	17.14	17.22	18.1 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	3722	3750	3765	MPR (dB)
Channel							
Frequency (MHz)							
60	QPSK	1	1	3486.68	3750	3763.02	MPR (dB)
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.22	17.12	17.15	18.1 0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	3725.01	3750	3775.02	MPR (dB)
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.14	17.13	17.21	18.1 0.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	3712.5	3750	3787.5	MPR (dB)
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.18	17.17	17.23	18.1 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	3710.01	3750	3790.02	MPR (dB)
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.21	17.20	17.12	18.1 0.0

Part270 78_FCC PC3 Ant3 EC13							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 633334	Power Middle Ch./Freq. 633334	Power High Ch./Freq. 633334	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	3500.01			
100	PI2 BPSK	1	137	17.04			18.1 0.0
100	PI2 BPSK	1	271	16.96			
100	PI2 BPSK	135	0	17.12			18.1 0.0
100	PI2 BPSK	135	69	16.97			18.1 0.0
100	PI2 BPSK	135	138	17.00			18.1 0.0
100	PI2 BPSK	270	0	17.08			
100	QPSK	1	1	17.14			
100	QPSK	1	137	17.10			18.1 0.0
100	QPSK	1	271	16.96			
100	QPSK	135	0	17.05			18.1 0.0
100	QPSK	135	69	17.08			18.1 0.0
100	QPSK	135	138	16.87			18.1 0.0
100	QPSK	270	0	17.04			
100	16QAM	1	1	17.01			18.1 0.0
100	64QAM	1	1	17.08			18.1 0.0
100	256QAM	1	1	18.1			18.1 0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	3485	3500.01	3505.02	MPR (dB)
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.04	17.09	17.05	18.1 0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	3492.02	3500.01	3510.01	MPR (dB)
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.01	17.00	17.10	18.1 0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	3482.51	3500.01	3534.51	MPR (dB)
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.96	17.04	17.03	18.1 0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	3485.02	3500.01	3518.01	MPR (dB)
Channel							
Frequency (MHz)							
25	QPSK	1	1	17.00	17.00	17.04	18.1 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	3482.51	3500.01	3537.51	MPR (dB)
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.00	17.00	17.05	18.1 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.06	17.09	17.00	18.1 0.0



n48 Ant4 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	16.36	16.31	16.39			
40	PI2 BPSK	1	53	16.39	16.39	16.14		0.0	
40	PI2 BPSK	1	104	16.26	16.34	16.23			
40	PI2 BPSK	50	0	16.23	16.25	16.25	17.7	0.0	
40	PI2 BPSK	50	28	16.31	16.29	16.10	17.7	0.0	
40	PI2 BPSK	50	58	16.26	16.37	16.14	17.7	0.0	
40	PI2 BPSK	100	0	16.28	16.30	16.22			
40	QPSK	1	1	16.39	16.47	16.18			
40	QPSK	1	53	16.24	16.34	16.16	17.7	0.0	
40	QPSK	1	104	16.12	16.28	16.11			
40	QPSK	50	0	16.31	16.31	16.15	17.7	0.0	
40	QPSK	50	28	16.26	16.36	16.21	17.7	0.0	
40	QPSK	50	58	16.24	16.24	16.29	17.7	0.0	
40	QPSK	100	0	16.30	16.32	16.06			
40	16QAM	1	1	16.36	16.40	16.28	17.7	0.0	
40	16QAM	1	1	16.28	16.35	16.05	17.7	0.0	
40	256QAM	1	1	16.16	16.19	16.31	17.7	0.0	
Channel				637666	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555.02	3624.99	3684.99			
30	QPSK	1	1	16.27	16.32	16.08	17.7	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	16.33	16.30	16.07	17.7	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	16.25	16.36	16.35	17.7	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.99			
10	QPSK	1	1	16.27	16.42	16.11	17.7	0.0	

Par270 n77_FCC PC2&PC3 Ant4 EC13									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	16.01	16.04	16.05			
100	PI2 BPSK	1	137	16.03	16.07	15.94	16.4	0.0	
100	PI2 BPSK	1	271	15.96	16.03	15.98			
100	PI2 BPSK	135	0	15.91	15.99	15.94	16.4	0.0	
100	PI2 BPSK	135	69	16.04	16.01	15.99	16.4	0.0	
100	PI2 BPSK	135	138	15.93	16.08	15.92	16.4	0.0	
100	PI2 BPSK	270	0	15.94	16.02	15.87			
100	QPSK	1	1	16.06	16.11	15.95			
100	QPSK	1	137	15.93	16.04	15.99	16.4	0.0	
100	QPSK	1	271	15.97	15.95	15.87			
100	QPSK	135	0	16.02	16.01	15.91	16.4	0.0	
100	QPSK	135	69	15.92	16.09	15.94	16.4	0.0	
100	QPSK	135	138	15.90	15.96	15.94	16.4	0.0	
100	QPSK	270	0	16.00	16.04	15.99			
100	16QAM	1	1	16.03	16.06	16.00	16.4	0.0	
100	16QAM	1	1	15.96	16.00	15.92	16.4	0.0	
100	256QAM	1	1	15.96	16.01	16.05	16.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	15.96	15.95	15.88	16.4	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	15.94	15.97	15.90	16.4	0.0	
Channel				649000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	15.99	16.06	15.81	16.4	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	15.97	15.98	15.87	16.4	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	15.95	16.01	15.80	16.4	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	15.92	15.98	15.90	16.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	15.95	16.00	15.83	16.4	0.0	
Channel				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	15.97	16.03	15.89	16.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	16.00	15.99	15.84	16.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	15.96	16.05	15.89	16.4	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	15.96	16.03	15.89	16.4	0.0	

Part27Q n77_FCC PC2&PC3 Ant4 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633000			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	16.08					
100	PI2 BPSK	1	137	16.14			16.4	0.0	
100	PI2 BPSK	1	271	16.19					
100	PI2 BPSK	135	0	16.09			16.4	0.0	
100	PI2 BPSK	135	69	16.06			16.4	0.0	
100	PI2 BPSK	135	138	16.14			16.4	0.0	
100	PI2 BPSK	270	0	16.16					
100	QPSK	1	1	16.27					
100	QPSK	1	137	16.09			16.4	0.0	
100	QPSK	1	271	16.07					
100	QPSK	135	0	16.12			16.4	0.0	
100	QPSK	135	69	16.21			16.4	0.0	
100	QPSK	135	138	16.04			16.4	0.0	
100	QPSK	270	0	16.16					
100	16QAM	1	1	16.18			16.4	0.0	
100	16QAM	1	1	16.16			16.4	0.0	
100	256QAM	1	1	16.05			16.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	16.13	16.19	16.14	16.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	16.15	16.12	16.17	16.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	16.12	16.17	16.12	16.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	16.16	16.18	16.13	16.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	16.23	16.11	16.22	16.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	16.20	16.19	16.17	16.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	16.13	16.22	16.12	16.4	0.0	
Channel				630834	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	16.19	16.12	16.11	16.4	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	16.13	16.15	16.17	16.4	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	16.12	16.18	16.17	16.4	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	16.12	16.21	16.13	16.4	0.0	



Part270 n78_FCC PC3 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI2 BPSK	1	1	15.53	15.53	15.53			
100	PI2 BPSK	1	137	15.68	15.68	15.68		0.0	
100	PI2 BPSK	1	271	15.68	15.68	15.68			
100	PI2 BPSK	135	0	15.81	15.81	15.81	16.4	0.0	
100	PI2 BPSK	135	69	15.51	15.51	15.51	16.4	0.0	
100	PI2 BPSK	135	138	15.63	15.63	15.63	16.4	0.0	
100	PI2 BPSK	270	0	15.68	15.68	15.68			
100	QPSK	1	1	15.74	15.74	15.74			
100	QPSK	1	137	15.65	15.65	15.65	16.4	0.0	
100	QPSK	1	271	15.58	15.58	15.58			
100	QPSK	135	0	15.59	15.59	15.59	16.4	0.0	
100	QPSK	135	69	15.65	15.65	15.65	16.4	0.0	
100	QPSK	135	138	15.57	15.57	15.57	16.4	0.0	
100	QPSK	270	0	15.52	15.52	15.52			
100	16QAM	1	1	15.88	15.88	15.88	16.4	0.0	
100	64QAM	1	1	15.71	15.71	15.71	16.4	0.0	
100	256QAM	1	1	15.55	15.55	15.55	16.4	0.0	
Channel				648868	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3750	3755.01			
90	QPSK	1	1	15.62	15.60	15.63	16.4	0.0	
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02			
80	QPSK	1	1	15.59	15.60	15.64	16.4	0.0	
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3750	3765			
70	QPSK	1	1	15.89	15.64	15.66	16.4	0.0	
Channel				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3750	3770.01			
60	QPSK	1	1	15.88	15.62	15.62	16.4	0.0	
Channel				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3750	3775.02			
50	QPSK	1	1	15.82	15.63	15.59	16.4	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780			
40	QPSK	1	1	15.64	15.58	15.67	16.4	0.0	
Channel				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3750	3795.01			
30	QPSK	1	1	15.59	15.64	15.63	16.4	0.0	
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3800.02			
25	QPSK	1	1	15.88	15.70	15.59	16.4	0.0	
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705.01	3750	3805.02			
20	QPSK	1	1	15.89	15.58	15.67	16.4	0.0	
Channel				646668	650000	652834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3700.02	3750	3810.01			
15	QPSK	1	1	15.86	15.61	15.70	16.4	0.0	
Channel				646334	650000	653168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3750	3795			
10	QPSK	1	1	15.66	15.65	15.59	16.4	0.0	

Part27Q 78_FCC PC3 Ant4 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633334	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI2 BPSK	1	1	15.64	15.64	15.64			
100	PI2 BPSK	1	137	15.75	15.75	15.75		0.0	
100	PI2 BPSK	1	271	15.84	15.84	15.84			
100	PI2 BPSK	135	0	15.73	15.73	15.73	16.4	0.0	
100	PI2 BPSK	135	69	15.64	15.64	15.64	16.4	0.0	
100	PI2 BPSK	135	138	15.70	15.70	15.70	16.4	0.0	
100	PI2 BPSK	270	0	15.79	15.79	15.79			
100	QPSK	1	1	15.90	15.90	15.90			
100	QPSK	1	137	15.69	15.69	15.69	16.4	0.0	
100	QPSK	1	271	15.70	15.70	15.70			
100	QPSK	135	0	15.72	15.72	15.72	16.4	0.0	
100	QPSK	135	69	15.76	15.76	15.76	16.4	0.0	
100	QPSK	135	138	15.69	15.69	15.69	16.4	0.0	
100	QPSK	270	0	15.78	15.78	15.78			
100	16QAM	1	1	15.80	15.80	15.80	16.4	0.0	
100	64QAM	1	1	15.78	15.78	15.78	16.4	0.0	
100	256QAM	1	1	15.65	15.65	15.65	16.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	15.85	15.84	15.85	16.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	15.78	15.80	15.85	16.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	15.77	15.83	15.77	16.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	15.80	15.78	15.78	16.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	15.78	15.74	15.78	16.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.82	15.79	15.78	16.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	15.77	15.75	15.80	16.4	0.0	
Channel				630668	633334	635934	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540.01			
25	QPSK	1	1	15.83	15.82	15.82	16.4	0.0	
Channel				630334	633334	636200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.02	3500.01	3545			
20	QPSK	1	1	15.76	15.79	15.78	16.4	0.0	
Channel				630000	633334	636468	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3450.01	3500.01	3550.01			
15	QPSK	1	1	15.82	15.85	15.83	16.4	0.0	
Channel				629668	633334	636734	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3445.01	3500.01	3555.01			
10	QPSK	1	1	15.85	15.77	15.75	16.4	0.0	



n48 Ant5 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				636000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	19.56	19.64	19.53			
40	PI2 BPSK	1	53	19.34	19.49	19.38		0.0	
40	PI2 BPSK	1	104	19.32	19.44	19.39		0.0	
40	PI2 BPSK	50	0	19.42	19.80	19.57	20.5	0.0	
40	PI2 BPSK	50	28	19.44	19.56	19.49	20.5	0.0	
40	PI2 BPSK	50	58	19.42	19.45	19.37	20.5	0.0	
40	PI2 BPSK	100	0	19.47	19.57	19.46			
40	QPSK	1	1	19.06	19.08	19.51			
40	QPSK	1	53	19.37	19.50	19.42	20.5	0.0	
40	QPSK	1	104	19.32	19.48	19.41			
40	QPSK	50	0	19.44	19.60	19.55	20.5	0.0	
40	QPSK	50	28	19.61	19.84	19.54	20.5	0.0	
40	QPSK	50	58	19.24	19.42	19.32	20.5	0.0	
40	QPSK	100	0	19.50	19.82	19.54			
40	16QAM	1	1	19.39	19.44	19.27	20.5	0.0	
40	16QAM	1	1	19.45	19.52	19.37	20.5	0.0	
40	256QAM	1	1	19.52	19.56	19.40	20.5	0.0	
Channel				637668	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	19.44	19.48	19.24	20.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	19.34	19.44	19.23	20.5	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	19.25	19.36	19.35	20.5	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	19.48	19.42	19.20	20.5	0.0	

Par270 n77 Ant5 EC13 PC2&3									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	17.80	17.83	17.76			
100	PI2 BPSK	1	137	17.60	17.76	17.64	19.4	0.0	
100	PI2 BPSK	1	271	17.53	17.89	17.54			
100	PI2 BPSK	135	0	17.82	17.73	17.57	19.4	0.0	
100	PI2 BPSK	135	69	17.71	17.81	17.67	19.4	0.0	
100	PI2 BPSK	135	138	17.48	17.85	17.59	19.4	0.0	
100	PI2 BPSK	270	0	17.67	17.75	17.70			
100	QPSK	1	1	17.93	17.99	17.96			
100	QPSK	1	137	17.68	17.71	17.55	19.4	0.0	
100	QPSK	1	271	17.51	17.57	17.50			
100	QPSK	135	0	17.62	17.88	17.66	19.4	0.0	
100	QPSK	135	69	17.65	17.79	17.66	19.4	0.0	
100	QPSK	135	138	17.80	17.86	17.53	19.4	0.0	
100	QPSK	270	0	17.74	17.77	17.62			
100	16QAM	1	1	17.43	17.43	17.46	19.4	0.0	
100	16QAM	1	1	17.46	17.46	17.42	19.4	0.0	
100	256QAM	1	1	17.41	17.56	17.51	19.4	0.0	
Channel				646668	650000	652334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	17.75	17.90	17.83	19.4	0.0	
Channel				646334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	17.81	17.81	17.82	19.4	0.0	
Channel				646000	650000	663000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	17.86	17.83	17.88	19.4	0.0	
Channel				646668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	17.84	17.91	17.90	19.4	0.0	
Channel				646334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	17.77	17.86	17.94	19.4	0.0	
Channel				646000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	17.83	17.96	17.92	19.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	17.77	17.84	17.85	19.4	0.0	
Channel				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	17.85	17.87	17.84	19.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	17.75	17.95	17.88	19.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	17.89	17.92	17.83	19.4	0.0	
Channel				647800	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	17.87	17.94	17.83	19.4	0.0	

Part27Q n77 Ant5 EC13 PC2&3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633334			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		18.52				
100	PI2 BPSK	1	137		18.48		19.4	0.0	
100	PI2 BPSK	1	271		18.38				
100	PI2 BPSK	135	0		18.46		19.4	0.0	
100	PI2 BPSK	135	69		18.53		19.4	0.0	
100	PI2 BPSK	135	138		18.56		19.4	0.0	
100	PI2 BPSK	270	0		18.42				
100	QPSK	1	1		18.06				
100	QPSK	1	137		18.47		19.4	0.0	
100	QPSK	1	271		18.55				
100	QPSK	135	0		18.43		19.4	0.0	
100	QPSK	135	69		18.51		19.4	0.0	
100	QPSK	135	138		18.40		19.4	0.0	
100	QPSK	270	0		18.46				
100	16QAM	1	1		18.19		19.4	0.0	
100	16QAM	1	1		18.03		19.4	0.0	
100	256QAM	1	1		18.21		19.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	18.47	18.60	18.60	19.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	18.40	18.45	18.40	19.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	18.43	18.49	18.59	19.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	18.33	18.53	18.45	19.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	18.34	18.61	18.56	19.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	18.42	18.49	18.58	19.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	18.42	18.54	18.50	19.4	0.0	
Channel				630834	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	18.41	18.60	18.53	19.4	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	18.48	18.49	18.54	19.4	0.0	
Channel				630500	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	18.43	18.57	18.55	19.4	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	18.48	18.51	18.49	19.4	0.0	



Part270 n78_FCC PC3 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		17.62				
100	PI2 BPSK	1	271		17.57		19.4	0.0	
100	PI2 BPSK	135	0		17.45		19.4	0.0	
100	PI2 BPSK	135	69		17.52		19.4	0.0	
100	PI2 BPSK	135	138		17.83		19.4	0.0	
100	PI2 BPSK	270	0		17.48		19.4	0.0	
100	PI2 BPSK	270	0		17.54		19.4	0.0	
100	QPSK	1	1		17.78		19.4	0.0	
100	QPSK	1	137		17.50		19.4	0.0	
100	QPSK	1	271		17.41		19.4	0.0	
100	QPSK	135	0		17.48		19.4	0.0	
100	QPSK	135	69		17.58		19.4	0.0	
100	QPSK	135	138		17.48		19.4	0.0	
100	QPSK	270	0		17.58		19.4	0.0	
100	16QAM	1	1		17.42		19.4	0.0	
100	16QAM	1	1		17.41		19.4	0.0	
100	256QAM	1	1		17.45		19.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.51	17.60	17.64	19.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.57	17.73	17.65	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.56	17.71	17.61	19.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.57	17.66	17.61	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.51	17.72	17.63	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.54	17.74	17.62	19.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.54	17.71	17.66	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.55	17.73	17.62	19.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.57	17.70	17.62	19.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.53	17.73	17.60	19.4	0.0	

Part27Q 78_FCC PC3 Ant5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		18.45				
100	PI2 BPSK	1	271		18.41		19.4	0.0	
100	PI2 BPSK	135	0		18.30		19.4	0.0	
100	PI2 BPSK	135	69		18.40		19.4	0.0	
100	PI2 BPSK	135	138		18.44		19.4	0.0	
100	PI2 BPSK	270	0		18.51		19.4	0.0	
100	PI2 BPSK	270	0		18.33		19.4	0.0	
100	QPSK	1	1		18.52		19.4	0.0	
100	QPSK	1	137		18.40		19.4	0.0	
100	QPSK	1	271		18.48		19.4	0.0	
100	QPSK	135	0		18.34		19.4	0.0	
100	QPSK	135	69		18.44		19.4	0.0	
100	QPSK	135	138		18.34		19.4	0.0	
100	QPSK	270	0		18.42		19.4	0.0	
100	16QAM	1	1		18.11		19.4	0.0	
100	16QAM	1	1		17.96		19.4	0.0	
100	256QAM	1	1		18.15		19.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.37	18.50	18.50	19.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.36	18.51	18.49	19.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.38	18.51	18.51	19.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.38	18.49	18.51	19.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.38	18.49	18.50	19.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.35	18.51	18.49	19.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.39	18.50	18.48	19.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.37	18.52	18.49	19.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.37	18.49	18.48	19.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.37	18.49	18.51	19.4	0.0	



n48 Ant8 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				638000	641666	645332			
Frequency (MHz)				3570	3624.99	3679.98			
40	PI2 BPSK	1	1	10.05	10.11	10.10			
40	PI2 BPSK	1	53	10.13	10.03	10.04		0.0	
40	PI2 BPSK	1	104	10.06	10.06	10.06			
40	PI2 BPSK	50	0	9.96	10.10	10.11	11.3	0.0	
40	PI2 BPSK	50	28	10.06	10.02	10.07	11.3	0.0	
40	PI2 BPSK	50	58	10.02	10.16	10.10	11.3	0.0	
40	PI2 BPSK	100	0	10.09	10.15	9.96			
40	QPSK	1	1	10.12	10.17	10.10			
40	QPSK	1	53	10.06	10.16	10.14	11.3	0.0	
40	QPSK	1	104	10.00	10.12	10.00			
40	QPSK	50	0	10.10	10.11	10.03	11.3	0.0	
40	QPSK	50	28	10.07	10.13	10.06	11.3	0.0	
40	QPSK	50	58	10.03	10.06	10.04			
40	QPSK	100	0	10.03	10.05	10.08			
40	16QAM	1	1	10.02	10.02	10.10	11.3	0.0	
40	16QAM	1	1	10.05	10.02	10.06	11.3	0.0	
40	256QAM	1	1	10.11	10.06	10.05	11.3	0.0	
Channel				637666	641666	645000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3565.02	3624.99	3684.99			
30	QPSK	1	1	10.08	10.16	9.97	11.3	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3624.99	3690			
20	QPSK	1	1	10.09	10.12	9.94	11.3	0.0	
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3557.52	3624.99	3692.49			
15	QPSK	1	1	10.05	10.16	10.15	11.3	0.0	
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3624.99	3694.98			
10	QPSK	1	1	10.11	10.12	10.09	11.3	0.0	

Par270 n77_FCC PC2&PC3 Ant8 EC13									
BW (MHz)	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)				3760	3840	3930			
100	PI2 BPSK	1	1	11.63	11.78	11.71			
100	PI2 BPSK	1	137	11.71	11.81	11.70	12.4	0.0	
100	PI2 BPSK	1	271	11.55	11.70	11.64			
100	PI2 BPSK	135	0	11.59	11.89	11.55	12.4	0.0	
100	PI2 BPSK	135	69	11.48	11.82	11.51	12.4	0.0	
100	PI2 BPSK	135	138	11.69	11.81	11.67	12.4	0.0	
100	PI2 BPSK	270	0	11.63	11.89	11.65			
100	QPSK	1	1	11.82	11.86	11.80			
100	QPSK	1	137	11.69	11.78	11.73	12.4	0.0	
100	QPSK	1	271	11.64	11.73	11.64			
100	QPSK	135	0	11.56	11.72	11.66	12.4	0.0	
100	QPSK	135	69	11.65	11.75	11.70	12.4	0.0	
100	QPSK	135	138	11.80	11.71	11.61	12.4	0.0	
100	QPSK	270	0	11.66	11.73	11.58			
100	16QAM	1	1	11.64	11.80	11.72	12.4	0.0	
100	16QAM	1	1	11.70	11.78	11.67	12.4	0.0	
100	256QAM	1	1	11.64	11.89	11.59	12.4	0.0	
Channel				649668	650000	650334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3935.01			
90	QPSK	1	1	11.74	11.80	11.81	12.4	0.0	
Channel				649334	650000	662668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3940.02			
80	QPSK	1	1	11.80	11.81	11.81	12.4	0.0	
Channel				649000	650000	653000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	QPSK	1	1	11.79	11.79	11.81	12.4	0.0	
Channel				648668	650000	663334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3950.01			
60	QPSK	1	1	11.76	11.74	11.79	12.4	0.0	
Channel				648334	650000	663668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3955.02			
50	QPSK	1	1	11.76	11.76	11.77	12.4	0.0	
Channel				648000	650000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	11.81	11.75	11.78	12.4	0.0	
Channel				647668	650000	664334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840	3965.01			
30	QPSK	1	1	11.78	11.72	11.83	12.4	0.0	
Channel				647000	650000	664500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3712.5	3840	3967.5			
25	QPSK	1	1	11.79	11.77	11.81	12.4	0.0	
Channel				647334	650000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3970.02			
20	QPSK	1	1	11.76	11.78	11.82	12.4	0.0	
Channel				647168	650000	664834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.51			
15	QPSK	1	1	11.79	11.78	11.76	12.4	0.0	
Channel				647000	650000	665000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	QPSK	1	1	11.72	11.80	11.78	12.4	0.0	

Part27Q n77_FCC PC2&PC3 Ant8 EC13									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633000	633334	633000			
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1	11.32					
100	PI2 BPSK	1	137	11.30			12.4	0.0	
100	PI2 BPSK	1	271	11.25					
100	PI2 BPSK	135	0	11.19			12.4	0.0	
100	PI2 BPSK	135	69	11.06			12.4	0.0	
100	PI2 BPSK	135	138	11.27			12.4	0.0	
100	PI2 BPSK	270	0	11.14					
100	QPSK	1	1	11.36					
100	QPSK	1	137	11.29			12.4	0.0	
100	QPSK	1	271	11.25					
100	QPSK	135	0	11.20			12.4	0.0	
100	QPSK	135	69	11.34			12.4	0.0	
100	QPSK	135	138	11.16			12.4	0.0	
100	QPSK	270	0	11.30					
100	16QAM	1	1	11.29			12.4	0.0	
100	16QAM	1	1	11.32			12.4	0.0	
100	256QAM	1	1	11.23			12.4	0.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	QPSK	1	1	11.34	11.32	11.30	12.4	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	QPSK	1	1	11.25	11.22	11.21	12.4	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	QPSK	1	1	11.32	11.26	11.32	12.4	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	QPSK	1	1	11.30	11.25	11.24	12.4	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3525			
50	QPSK	1	1	11.27	11.33	11.30	12.4	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	11.27	11.27	11.32	12.4	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	QPSK	1	1	11.23	11.29	11.26	12.4	0.0	
Channel				630668	633334	635834	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3462.51	3500.01	3537.51			
25	QPSK	1	1	11.28	11.28	11.27	12.4	0.0	
Channel				630334	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3459.02	3500.01	3540			
20	QPSK	1	1	11.22	11.30	11.27	12.4	0.0	
Channel				630000	633334	636168	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500.01	3542.52			
15	QPSK	1	1	11.23	11.31	11.30	12.4	0.0	
Channel				630334	633334	636334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455.01	3500.01	3545.01			
10	QPSK	1	1	11.23	11.24	11.20	12.4	0.0	



Part270 n78_FCC PC3 Ant8 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	3750	3750	3750			
100	PI2 BPSK	1	137		11.67				0.0
100	PI2 BPSK	1	271		11.56				
100	PI2 BPSK	135	0		11.57		12.4	0.0	
100	PI2 BPSK	135	69		11.54		12.4	0.0	
100	PI2 BPSK	135	138		11.68		12.4	0.0	
100	PI2 BPSK	270	0		11.57		12.4	0.0	
100	QPSK	1	1		11.70		12.4	0.0	
100	QPSK	1	137		11.70		12.4	0.0	
100	QPSK	1	271		11.88		12.4	0.0	
100	QPSK	135	0		11.62		12.4	0.0	
100	QPSK	135	69		11.64		12.4	0.0	
100	QPSK	135	138		11.61		12.4	0.0	
100	QPSK	270	0		11.52		12.4	0.0	
100	16QAM	1	1		11.85		12.4	0.0	
100	64QAM	1	1		11.70		12.4	0.0	
100	256QAM	1	1		11.61		12.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64868	65000	65034	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.74	11.71	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.84	11.68	11.69	12.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.84	11.75	11.69	12.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.84	11.86	11.63	12.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.72	11.83	11.70	12.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.71	11.68	11.72	12.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.88	11.64	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.86	11.87	11.67	12.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.72	11.73	11.72	12.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.64	11.70	11.74	12.4	0.0	

Part270 n78_FCC PC3 Ant8 ECI3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		11.13				0.0
100	PI2 BPSK	1	271		11.02				
100	PI2 BPSK	135	0		10.97		12.4	0.0	
100	PI2 BPSK	135	69		10.81		12.4	0.0	
100	PI2 BPSK	135	138		11.10		12.4	0.0	
100	PI2 BPSK	270	0		10.96		12.4	0.0	
100	QPSK	1	1		11.19		12.4	0.0	
100	QPSK	1	137		11.10		12.4	0.0	
100	QPSK	1	271		11.08		12.4	0.0	
100	QPSK	135	0		11.04		12.4	0.0	
100	QPSK	135	69		11.11		12.4	0.0	
100	QPSK	135	138		11.03		12.4	0.0	
100	QPSK	270	0		11.05		12.4	0.0	
100	16QAM	1	1		11.11		12.4	0.0	
100	64QAM	1	1		11.14		12.4	0.0	
100	256QAM	1	1		11.07		12.4	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	63300	63334	63368	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.13	11.15	11.09	12.4	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.12	11.15	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.12	11.15	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.17	11.07	11.15	12.4	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	11.11	11.09	11.11	12.4	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.12	11.16	11.09	12.4	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.15	11.15	11.11	12.4	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.19	11.15	11.13	12.4	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.17	11.16	11.14	12.4	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.16	11.15	11.07	12.4	0.0	







**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			100%	200%	500%
BR / EDR	CH 00	2402	17.00	14.00	14.70
	CH 35	2441	18.50	15.00	15.00
	CH 75	2480	17.20	14.00	14.00
Total Avg Limit			18.0	16	16

**BLE 1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
			500%
LE	CH 00	2402	5.80
	CH 19	2440	7.40
	CH 38	2478	5.70
Total Avg Limit			7.5

**BLE 2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
			500%
LE	CH 00	2402	5.80
	CH 19	2440	7.50
	CH 38	2478	5.70
Total Avg Limit			7.5