

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
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

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6

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



Appendix D. Conducted RF Output Power Table

The detailed power table are shown as follows.

WWAN Full Power

Band	GSM850 (Ant2)				GSM1900 (Ant1)			
Channel	128	189	251	Max. Tune-up Power	512	661	810	Max. Tune-up Power
Frequency	824.2	836.4	848.8		1850.2	1880	1909.8	
GSM	32.05	32.12	32.02	33.50	29.01	29.19	29.11	30.50
GPRS 1Tx Slot	32.04	32.10	31.99	33.50	29.00	29.16	29.09	30.50
GPRS 2Tx Slot	30.25	30.09	30.23	31.00	27.27	27.09	27.16	28.00
GPRS 3Tx Slot	28.73	28.64	28.65	29.50	25.56	25.54	25.50	26.50
GPRS 4Tx Slot	27.20	27.07	27.16	28.00	23.56	24.05	24.01	25.00
EDGE 1Tx Slot	25.71	26.07	25.95	26.50	25.17	25.45	25.29	26.50
EDGE 2Tx Slot	25.42	25.77	25.69	26.00	25.00	25.30	25.18	26.00
EDGE 3Tx Slot	21.71	21.69	21.70	22.50	21.14	21.40	21.36	22.50
EDGE 4Tx Slot	20.68	20.65	20.63	21.50	20.21	20.10	20.23	21.00

Source-Based Time-Averaged Power								
Band	GSM850			Max. Tune-up Power	GSM1900			Max. Tune-up Power
Channel	128	189	251		512	661	810	
GSM	23.05	23.12	23.02	24.50	20.01	20.19	20.11	21.50
GPRS 1Tx Slot	23.04	23.10	22.99	24.50	20.00	20.16	20.09	21.50
GPRS 2Tx Slot	24.25	24.09	24.23	25.00	21.27	21.09	21.16	22.00
GPRS 3Tx Slot	24.47	24.38	24.39	25.24	21.30	21.28	21.24	22.24
GPRS 4Tx Slot	24.20	24.07	24.16	25.00	20.56	21.05	21.01	22.00
EDGE 1Tx Slot	16.71	17.07	16.95	17.50	16.17	16.45	16.29	17.50
EDGE 2Tx Slot	19.42	19.77	19.69	20.00	19.00	19.30	19.18	20.00
EDGE 3Tx Slot	17.45	17.43	17.44	18.24	16.88	17.14	17.10	18.24
EDGE 4Tx Slot	17.68	17.65	17.63	18.50	17.21	17.10	17.23	18.00

Band	WCDMA II (Ant1)			WCDMA II	WCDMA IV (Ant1)			WCDMA IV	WCDMA V (Ant2)			WCDMA V
TX Channel	9262	9400	9538	Max. Tune-up Power	1312	1413	1513	Max. Tune-up Power	4132	4182	4233	Max. Tune-up Power
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
RMC 12.2K	23.35	23.38	23.26	24.00	23.24	23.26	23.33	24.00	22.78	22.76	22.75	24.00
HSDPA Subtest-1	22.31	22.33	22.21	23.00	22.22	22.25	22.29	23.00	21.76	21.68	21.73	23.00
HSDPA Subtest-2	22.27	22.37	22.21	23.00	22.20	22.23	22.27	23.00	21.73	21.68	21.74	23.00
HSDPA Subtest-3	21.81	21.83	21.75	22.50	21.68	21.71	21.82	22.50	21.24	21.21	21.20	22.50
HSDPA Subtest-4	21.79	21.86	21.71	22.50	21.73	21.74	21.78	22.50	21.20	21.25	21.20	22.50
DC-HSDPA Subtest-1	22.28	22.33	22.24	23.00	22.23	22.22	22.30	23.00	21.74	21.71	21.74	23.00
DC-HSDPA Subtest-2	22.27	22.36	22.21	23.00	22.16	22.19	22.31	23.00	21.72	21.74	21.70	23.00
DC-HSDPA Subtest-3	21.83	21.80	21.74	22.50	21.71	21.75	21.77	22.50	21.21	21.21	21.23	22.50
DC-HSDPA Subtest-4	21.77	21.82	21.68	22.50	21.70	21.71	21.81	22.50	21.20	21.24	21.20	22.50
HSUPA Subtest-1	19.79	19.83	19.79	20.50	19.68	19.74	19.80	20.50	19.26	19.18	19.23	20.50
HSUPA Subtest-2	19.77	19.81	19.80	20.50	19.72	19.68	19.82	20.50	19.20	19.20	19.17	20.50
HSUPA Subtest-3	19.79	19.78	19.80	20.50	19.66	19.72	19.78	20.50	19.22	19.24	19.19	20.50
HSUPA Subtest-4	19.71	19.75	19.77	20.50	19.71	19.70	19.81	20.50	19.21	19.21	19.23	20.50
HSUPA Subtest-5	22.27	22.35	22.20	23.00	22.23	22.21	22.25	23.00	21.42	21.39	21.40	23.00

LTE Band 2 (Ant1)										
BW	MCS Index	RB Size		RB Offset	Low			3GPP MPR (dB)	Max. Twp-up (dB)	
		Channel	Frequency (MHz)		1970	1980	1990			
20M	QPSK	1	0	22.82	22.87	22.92	0	24		
			1	22.83	22.88	22.93	0	24		
			5	22.78	22.83	22.88	0	24		
			50	22.92	21.87	21.92	1	23		
	16QAM	1	0	22.82	22.87	22.92	1	23		
			1	22.83	22.88	22.93	1	23		
			5	22.78	22.83	22.88	1	23		
			50	22.92	21.87	21.92	1	23		
	64QAM	1	0	22.82	22.87	22.92	2	22		
			1	22.83	22.88	22.93	2	22		
			5	22.78	22.83	22.88	2	22		
			50	22.92	21.87	21.92	2	22		
30M	QPSK	1	0	22.82	22.87	22.92	0	24		
			1	22.83	22.88	22.93	0	24		
			5	22.78	22.83	22.88	0	24		
			50	22.92	21.87	21.92	1	23		
	16QAM	1	0	22.82	22.87	22.92	1	23		
			1	22.83	22.88	22.93	1	23		
			5	22.78	22.83	22.88	1	23		
			50	22.92	21.87	21.92	1	23		
	64QAM	1	0	22.82	22.87	22.92	2	22		
			1	22.83	22.88	22.93	2	22		
			5	22.78	22.83	22.88	2	22		
			50	22.92	21.87	21.92	2	22		
40M	QPSK	1	0	22.82	22.87	22.92	0	24		
			1	22.83	22.88	22.93	0	24		
			5	22.78	22.83	22.88	0	24		
			50	22.92	21.87	21.92	1	23		
	16QAM	1	0	22.82	22.87	22.92	1	23		
			1	22.83	22.88	22.93	1	23		
			5	22.78	22.83	22.88	1	23		
			50	22.92	21.87	21.92	1	23		
	64QAM	1	0	22.82	22.87	22.92	2	22		
			1	22.83	22.88	22.93	2	22		
			5	22.78	22.83	22.88	2	22		
			50	22.92	21.87	21.92	2	22		

LTE Band 4 (Ant1)										
BW	MCS Index	RB Size		RB Offset	Low			3GPP MPR (dB)	Max. Twp-up (dB)	
		Channel	Frequency (MHz)		2050	2075	2090			
20M	QPSK	1	0	22.82	22.93	22.97	0	24		
			1	22.85	22.76	22.88	0	24		
			5	22.83	22.74	22.93	0	24		
			50	22.81	21.90	22.02	1	23		
	16QAM	1	0	22.82	22.93	22.97	1	23		
			1	22.85	22.80	22.92	1	23		
			5	22.78	22.89	22.92	1	23		
			50	22.91	21.90	22.02	1	23		
	64QAM	1	0	22.82	22.93	22.97	2	22		
			1	22.85	22.80	22.92	2	22		
			5	22.78	22.89	22.92	2	22		
			50	22.91	21.90	22.02	2	22		
30M	QPSK	1	0	22.82	22.93	22.97	0	24		
			1	22.85	22.76	22.88	0	24		
			5	22.83	22.74	22.93	0	24		
			50	22.81	21.90	22.02	1	23		
	16QAM	1	0	22.82	22.93	22.97	1	23		
			1	22.85	22.80	22.92	1	23		
			5	22.78	22.89	22.92	1	23		
			50	22.91	21.90	22.02	1	23		
	64QAM	1	0	22.82	22.93	22.97	2	22		
			1	22.85	22.80	22.92	2	22		
			5	22.78	22.89	22.92	2	22		
			50	22.91	21.90	22.02	2	22		
40M	QPSK	1	0	22.82	22.93	22.97	0	24		
			1	22.85	22.76	22.88	0	24		
			5	22.83	22.74	22.93	0	24		
			50	22.81	21.90	22.02	1	23		
	16QAM	1	0	22.82	22.93	22.97	1	23		
			1	22.85	22.80	22.92	1	23		
			5	22.78	22.89	22.92	1	23		
			50	22.91	21.90	22.02	1	23		
	64QAM	1	0	22.82	22.93	22.97	2	22		
			1	22.85	22.80	22.92	2	22		
			5	22.78	22.89	22.92	2	22		
			50	22.91	21.90	22.02	2	22		

LTE Band 2 (Ant2)										
BW	MCS Index	RB Size		RB Offset	Low			3GPP MPR (dB)	Max. Twp-up (dB)	
		Channel	Frequency (MHz)		1970	1980	1990			
20M	QPSK	1	0	22.51	22.73	22.82	0	24		
			1	22.48	22.48	22.23	0	24		
			5	22.27	22.49	22.52	0	24		
			50	21.29	21.56	21.52	1	23		
	16QAM	1	0	22.51	22.73	22.82	1	23		
			1	22.48	22.48	22.23	1	23		
			5	22.27	22.49	22.52	1	23		
			50	21.29	21.56	21.52	1	23		
	64QAM	1	0	22.51	22.73	22.82	2	22		
			1	22.48	22.48	22.23	2	22		
			5	22.27	22.49	22.52	2	22		
			50	21.29	21.56	21.52	2	22		
30M	QPSK	1	0	22.51	22.73	22.82	0	24		
			1	22.48	22.48	22.23	0	24		
			5	22.27	22.49	22.52	0	24		
			50	21.29	21.56	21.52	1	23		
	16QAM	1	0	22.51	22.73	22.82	1	23		
			1	22.48	22.48	22.23	1	23		
			5	22.27	22.49	22.52	1	23		
			50	21.29	21.56	21.52	1	23		
	64QAM	1	0	22.51	22.73	22.82	2	22		
			1	22.48	22.48	22.23	2	22		
			5	22.27	22.49	22.52	2	22		
			50	21.29	21.56	21.52	2	22		
40M	QPSK	1	0	22.51	22.73	22.82	0	24		
			1	22.48	22.48	22.23	0	24		
			5	22.27	22.49	22.52	0	24		
			50	21.29	21.56	21.52	1	23		
	16QAM	1	0	22.51	22.73	22.82	1	23		
			1	22.48	22.48	22.23	1	23		
			5	22.27	22.49	22.52	1	23		
			50	21.29	21.56	21.52	1	23		
	64QAM	1	0	22.51	22.73	22.82	2	22		
			1	22.48	22.48	22.23	2	22		
			5	22.27	22.49	22.52	2	22		
			50	21.29	21.56	21.52	2	22		

LTE Band 7 (Ant1)								
BW	MCS Index	RB Size	RB Offset	Channel			SPP MPR (dB)	Max. Tune-up (dBm)
				Low	Mid	High		
				20855	21160	21350		
Frequency (MHz)								
2510 2535 2560								
1	0	23.08	23.01	22.88	0	24	24	
1	50	23.13	23.06	23.01	0	24	24	
1	99	23.20	23.11	23.06	0	24	24	
50	0	22.22	22.11	22.06	1	23	23	
50	25	22.32	22.24	22.23	1	23	23	
50	50	22.35	22.23	22.23	1	23	23	
100	0	22.27	22.25	22.17	1	23	23	
1	0	22.19	22.07	22.07	1	23	23	
1	50	22.07	22.05	21.97	1	23	23	
1	99	22.25	22.16	22.13	1	23	23	
50	0	21.27	21.16	21.11	2	22	22	
50	25	21.34	21.26	21.25	2	22	22	
50	50	21.38	21.31	21.18	2	22	22	
100	0	21.37	21.26	21.23	2	22	22	
1	0	21.37	21.26	21.23	2	22	22	
1	50	21.45	21.34	21.29	2	22	22	
1	99	21.48	21.40	21.39	2	22	22	
50	0	20.30	20.23	20.10	3	21	21	
50	25	20.34	20.27	20.22	3	21	21	
50	50	20.38	20.33	20.21	3	21	21	
100	0	20.37	20.25	20.25	3	21	21	
50	0	20.37	20.25	20.25	3	21	21	

LTE Band 12 (Ant2)								
BW	MCS Index	RB Size	RB Offset	Channel			SPP MPR (dB)	Max. Tune-up (dBm)
				Low	Mid	High		
				2380	2395	2395		
Frequency (MHz)								
764 767.5 711								
1	0	22.32	22.25	22.35	0	24	24	
1	24	22.31	22.20	22.34	0	24	24	
1	49	22.35	22.27	22.42	0	24	24	
25	0	21.35	21.29	21.37	1	23	23	
25	12	21.34	21.36	21.40	1	23	23	
25	25	21.41	21.35	21.47	1	23	23	
50	0	21.27	21.26	21.31	1	23	23	
1	0	21.34	21.51	21.62	1	23	23	
1	24	21.44	21.45	21.50	1	23	23	
1	49	21.62	21.51	21.65	1	23	23	
25	0	20.38	20.36	20.42	2	22	22	
25	12	20.45	20.44	20.48	2	22	22	
25	25	20.50	20.47	20.58	2	22	22	
50	0	20.29	20.23	20.33	2	22	22	
1	0	20.54	20.51	20.62	2	22	22	
1	24	20.55	20.56	20.60	2	22	22	
1	49	20.62	20.64	20.71	2	22	22	
25	0	19.34	19.28	19.33	3	21	21	
25	12	19.32	19.31	19.42	3	21	21	
25	25	19.41	19.35	19.40	3	21	21	
50	0	19.37	19.36	19.43	3	21	21	
50	0	19.37	19.36	19.43	3	21	21	

LTE Band 13 (Ant2)								
BW	MCS Index	RB Size	RB Offset	Channel			SPP MPR (dB)	Max. Tune-up (dBm)
				Low	Mid	High		
				2320	2330	2330		
Frequency (MHz)								
782 782 782								
1	0	22.44	22.44	22.44	0	24	24	
1	24	22.47	22.47	22.47	0	24	24	
1	49	22.50	22.50	22.50	0	24	24	
25	0	21.74	21.74	21.74	1	23	23	
25	12	21.79	21.79	21.79	1	23	23	
25	25	21.76	21.76	21.76	1	23	23	
50	0	21.73	21.73	21.73	1	23	23	
1	0	21.71	21.71	21.71	1	23	23	
1	24	21.84	21.84	21.84	1	23	23	
1	49	21.68	21.68	21.68	1	23	23	
25	0	20.71	20.71	20.71	2	22	22	
25	12	20.77	20.77	20.77	2	22	22	
25	25	20.74	20.74	20.74	2	22	22	
50	0	20.75	20.75	20.75	2	22	22	
1	0	20.79	20.79	20.79	2	22	22	
1	24	21.02	21.02	21.02	2	22	22	
1	49	20.84	20.84	20.84	2	22	22	
25	0	19.77	19.77	19.77	3	21	21	
25	12	19.80	19.80	19.80	3	21	21	
25	25	19.73	19.73	19.73	3	21	21	
50	0	19.82	19.82	19.82	3	21	21	
50	0	19.82	19.82	19.82	3	21	21	

UL CA

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Tune up limit (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	0	0	1	23.26	24.00
		16QAM	1	99	0	0	1	22.51	23.00
		64QAM	1	99	0	0	1	21.34	22.00
21100	21298	QPSK	1	99	0	0	1	23.27	24.00
		16QAM	1	99	0	0	1	22.36	23.00
		64QAM	1	99	0	0	1	21.48	22.00
21350	21152	QPSK	1	99	0	0	1	23.17	24.00
		16QAM	1	99	0	0	1	22.35	23.00
		64QAM	1	99	0	0	1	21.28	22.00

CA_38C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	1	22.81	24.00
		16QAM	1	0	0	0	1	22.08	23.00
		64QAM	1	0	0	0	1	20.77	22.00
37901	38099	QPSK	1	0	0	0	1	22.66	24.00
		16QAM	1	0	0	0	1	21.82	23.00
		64QAM	1	0	0	0	1	20.53	22.00
38150	37952	QPSK	1	0	0	0	1	22.51	24.00
		16QAM	1	0	0	0	1	21.70	23.00
		64QAM	1	0	0	0	1	20.68	22.00

CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	0	0	0	1	22.71	24.00
		16QAM	1	0	0	0	1	21.84	23.00
		64QAM	1	0	0	0	1	20.37	22.00
40185	40383	QPSK	1	0	0	0	1	22.54	24.00
		16QAM	1	0	0	0	1	21.74	23.00
		64QAM	1	0	0	0	1	20.23	22.00
40620	40818	QPSK	1	0	0	0	1	22.51	24.00
		16QAM	1	0	0	0	1	21.73	23.00
		64QAM	1	0	0	0	1	20.17	22.00
41055	41253	QPSK	1	0	0	0	1	22.41	24.00
		16QAM	1	0	0	0	1	21.61	23.00
		64QAM	1	0	0	0	1	20.13	22.00
41490	41292	QPSK	1	0	0	0	1	21.99	24.00
		16QAM	1	0	0	0	1	21.15	23.00
		64QAM	1	0	0	0	1	19.69	22.00

CA_42C Part27									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
42190	42388	QPSK	1	0	0	0	1	22.50	24.00
		16QAM	1	0	0	0	1	21.73	23.00
		64QAM	1	0	0	0	1	20.21	22.00
42590	42392	QPSK	1	0	0	0	1	22.63	24.00
		16QAM	1	0	0	0	1	21.71	23.00
		64QAM	1	0	0	0	1	20.09	22.00
42990	42792	QPSK	1	0	0	0	1	22.51	24.00
		16QAM	1	0	0	0	1	21.69	23.00
		64QAM	1	0	0	0	1	20.14	22.00

CA_48C For SAR									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	1	0	0	0	1	22.46	24.00
		16QAM	1	0	0	0	1	21.71	23.00
		64QAM	1	0	0	0	1	20.16	22.00
55830	56028	QPSK	1	0	0	0	1	22.37	24.00
		16QAM	1	0	0	0	1	21.57	23.00
		64QAM	1	0	0	0	1	20.03	22.00
56150	56348	QPSK	1	0	0	0	1	22.44	24.00
		16QAM	1	0	0	0	1	21.70	23.00
		64QAM	1	0	0	0	1	20.17	22.00
56640	56442	QPSK	1	0	0	0	1	22.26	24.00
		16QAM	1	0	0	0	1	21.52	23.00
		64QAM	1	0	0	0	1	20.01	22.00

DL CA

Configure		CA List	PCC						SCC				Power		
			LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
			Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	Contiguous	CA_7C	Band 7	20M	2510	20850	QPSK	1	99	Band 7	20M	2649.8	3048	23.09	23.20
			Band 7	20M	2535	21100	QPSK	1	99	Band 7	20M	2674.8	3298	22.97	23.11
			Band 7	20M	2560	21350	QPSK	1	99	Band 7	20M	2660.2	3152	22.95	23.08

n2 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	372000	376000	
20M	CP-OFDM QPSK	1	1	21.58	21.61	21.48	22.5
BW	MCS Index	Channel		371500	376000	380500	Max. Tune-up
		Frequency (MHz)		1857.5	1880	1902.5	
15M	CP-OFDM QPSK	1	1	21.55	21.59	21.45	22.5
BW	MCS Index	Channel		371000	376000	381000	Max. Tune-up
		Frequency (MHz)		1855	1880	1905	
10M	CP-OFDM QPSK	1	1	21.56	21.58	21.47	22.5
BW	MCS Index	Channel		370500	376000	381500	Max. Tune-up
		Frequency (MHz)		1852.5	1880	1907.5	
5M	CP-OFDM QPSK	1	1	21.53	21.55	21.46	22.5

n2 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	372000	376000	
20M	DFT-s-OFDM P1/2 BPSK	1	1	23.12	23.16	23.09	24
				23.11	23.09	23.06	24
				23.09	23.06	23.00	24
				22.67	22.72	22.68	24
				23.16	23.13	23.07	24
				22.62	22.66	22.58	24
				22.66	22.76	22.62	24
				22.66	22.66	22.66	24
				22.66	22.66	22.66	24
	DFT-s-OFDM QPSK	1	1	23.26	23.27	23.21	24
				23.17	23.24	23.13	24
				23.11	23.20	23.11	24
				22.18	22.24	22.11	24
				23.16	23.21	23.20	24
				22.15	22.22	22.13	24
				22.15	22.24	22.13	23
				22.15	22.24	22.13	23
				22.15	22.24	22.13	23
DFT-s-OFDM 15QAM	1	1	22.43	22.44	22.42	23	
			20.78	20.88	20.74	21.5	
			18.60	18.60	18.54	19.5	
DFT-s-OFDM 256QAM	1	1	18.60	18.60	18.54	19.5	
			18.60	18.60	18.54	19.5	
BW	MCS Index	Channel		371500	376000	380500	Max. Tune-up
		Frequency (MHz)		1857.5	1880	1902.5	
15M	DFT-s-OFDM QPSK	1	1	23.15	23.18	23.14	24
BW	MCS Index	Channel		371000	376000	381000	Max. Tune-up
		Frequency (MHz)		1855	1880	1905	
10M	DFT-s-OFDM QPSK	1	1	23.11	23.16	23.12	24
BW	MCS Index	Channel		370500	376000	381500	Max. Tune-up
		Frequency (MHz)		1852.5	1880	1907.5	
5M	DFT-s-OFDM QPSK	1	1	23.09	23.15	23.08	24

n5 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	166800	167300	
20M	CP-OFDM QPSK	1	1	21.26	21.29	21.20	22.5
BW	MCS Index	Channel		166300	167300	168300	Max. Tune-up
		Frequency (MHz)		831.5	836.5	841.5	
15M	CP-OFDM QPSK	1	1	21.22	21.26	21.18	22.5
BW	MCS Index	Channel		165800	167300	168800	Max. Tune-up
		Frequency (MHz)		829	836.5	844	
10M	CP-OFDM QPSK	1	1	21.20	21.24	21.13	22.5
BW	MCS Index	Channel		165300	167300	169300	Max. Tune-up
		Frequency (MHz)		826.5	836.5	846.5	
5M	CP-OFDM QPSK	1	1	21.24	21.27	21.17	22.5

n5 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	166800	167300	
20M	DFT-s-OFDM P1/2 BPSK	1	1	22.79	22.83	22.71	24
				22.85	22.83	22.75	24
				22.78	22.75	22.64	24
				22.31	22.36	22.27	24
				22.81	22.78	22.67	24
				22.22	22.26	22.13	24
				22.22	22.38	22.19	24
				22.28	22.38	22.19	24
				22.28	22.38	22.19	24
	DFT-s-OFDM QPSK	1	1	22.84	22.89	22.78	24
				22.80	22.87	22.71	24
				22.68	22.77	22.63	24
				21.84	21.90	21.72	24
				22.76	22.81	22.75	24
				21.69	21.76	21.62	24
				21.76	21.85	21.69	23
				21.76	21.77	21.70	23
				21.76	21.77	21.70	23
DFT-s-OFDM 15QAM	1	1	20.44	20.54	20.35	21.5	
			18.07	18.07	17.96	19.5	
			18.07	18.07	17.96	19.5	
DFT-s-OFDM 256QAM	1	1	18.07	18.07	17.96	19.5	
			18.07	18.07	17.96	19.5	
BW	MCS Index	Channel		166300	167300	168300	Max. Tune-up
		Frequency (MHz)		831.5	836.5	841.5	
15M	DFT-s-OFDM QPSK	1	1	22.72	22.76	22.73	24
BW	MCS Index	Channel		165800	167300	168800	Max. Tune-up
		Frequency (MHz)		829	836.5	844	
10M	DFT-s-OFDM QPSK	1	1	22.68	22.73	22.70	24
BW	MCS Index	Channel		165300	167300	169300	Max. Tune-up
		Frequency (MHz)		826.5	836.5	846.5	
5M	DFT-s-OFDM QPSK	1	1	22.75	22.77	22.73	24

n7 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	502000	507000	
20M	CP-OFDM QPSK	1	1	21.56	21.67	21.38	22.5
BW	MCS Index	Channel		501500	507000	512500	Max. Tune-up
		Frequency (MHz)		2507.5	2535	2562.5	
15M	CP-OFDM QPSK	1	1	21.53	21.62	21.35	22.5
BW	MCS Index	Channel		501000	507000	513000	Max. Tune-up
		Frequency (MHz)		2505	2535	2565	
10M	CP-OFDM QPSK	1	1	21.54	21.60	21.32	22.5
BW	MCS Index	Channel		500500	507000	513500	Max. Tune-up
		Frequency (MHz)		2502.5	2535	2567.5	
5M	CP-OFDM QPSK	1	1	21.56	21.65	21.37	22.5

n7 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	502000	507000	
20M	DFT-s-OFDM P1/2 BPSK	1	1	23.04	23.06	22.89	24
				22.99	22.94	22.78	24
				22.95	22.98	22.84	24
				22.57	22.52	22.36	24
				22.99	23.01	22.83	24
				22.41	22.49	22.25	24
				22.57	22.55	22.39	24
				22.57	22.55	22.39	24
				22.57	22.55	22.39	24
	DFT-s-OFDM QPSK	1	1	23.10	23.15	22.94	24
				22.95	23.02	22.83	24
				22.93	22.97	22.74	24
				22.07	22.10	21.99	24
				23.04	23.09	22.90	24
				21.96	22.03	21.82	24
				22.06	22.05	21.93	23
				22.06	22.05	21.93	23
				22.06	22.05	21.93	23
DFT-s-OFDM 15QAM	1	1	22.05	22.13	21.89	23	
			20.78	20.76	20.60	21.5	
			18.29	18.37	18.13	19.5	
DFT-s-OFDM 256QAM	1	1	18.29	18.37	18.13	19.5	
			18.29	18.37	18.13	19.5	
BW	MCS Index	Channel		501500	507000	512500	Max. Tune-up
		Frequency (MHz)		2507.5	2535	2562.5	
15M	DFT-s-OFDM QPSK	1	1	23.00	23.02	22.88	24
BW	MCS Index	Channel		501000	507000	513000	Max. Tune-up
		Frequency (MHz)		2505	2535	2565	
10M	DFT-s-OFDM QPSK	1	1	22.95	22.99	22.95	24
BW	MCS Index	Channel		500500	507000	513500	Max. Tune-up
		Frequency (MHz)		2502.5	2535	2567.5	
5M	DFT-s-OFDM QPSK	1	1	23.00	23.05	22.98	24

n12 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		141300	141500	141700	
		Frequency (MHz)		706.5	707.5	708.5	
15M	CP-OFDM QPSK	1	1	20.94	21.03	20.99	22.5
BW	MCS Index	Channel		140800	141500	142200	Max. Tune-up
		Frequency (MHz)		704	707.5	711	
10M	CP-OFDM QPSK	1	1	20.90	20.98	20.95	22.5
BW	MCS Index	Channel		140300	141500	142700	Max. Tune-up
		Frequency (MHz)		701.5	707.5	713.5	
5M	CP-OFDM QPSK	1	1	20.93	21.01	20.97	22.5

n12 (SCS 15 kHz)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		141300	141500	141700		
		Frequency (MHz)		706.5	707.5	708.5		
15M	DFT-s-OFDM Pi/2 BPSK	1	1	22.63	22.67	22.60	24	
		1	39	22.63	22.64	22.56	24	
		1	77	22.58	22.55	22.54	24	
		36	0	22.11	22.07	22.03	24	
		36	19	22.58	22.62	22.60	24	
		36	39	21.98	21.94	21.90	24	
		75	0	22.16	22.19	22.13	24	
		1	1	22.61	22.70	22.58	24	
		1	39	22.65	22.64	22.60	24	
	1	77	22.50	22.56	22.47	24		
	DFT-s-OFDM QPSK	36	0	21.52	21.60	21.53	24	
		36	19	22.61	22.66	22.55	24	
		36	39	21.52	21.56	21.57	24	
		75	0	21.71	21.77	21.70	23	
		1	1	21.48	21.56	21.47	23	
	DFT-s-OFDM 16QAM	1	1	20.23	20.23	20.23	21.5	
	DFT-s-OFDM 64QAM	1	1	17.72	17.81	17.69	19.5	
	DFT-s-OFDM 256QAM	1	1	17.72	17.81	17.69	19.5	
	BW	MCS Index	Channel		140800	141500	142200	Max. Tune-up
			Frequency (MHz)		704	707.5	711	
	10M	DFT-s-OFDM QPSK	1	1	22.51	22.58	22.55	24
	BW	MCS Index	Channel		140300	141500	142700	Max. Tune-up
			Frequency (MHz)		701.5	707.5	713.5	
5M	DFT-s-OFDM QPSK	1	1	22.55	22.59	22.56	24	

n25 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		374000	376500	379000	
		Frequency (MHz)		1870	1882.5	1895	
40M	CP-OFDM QPSK	1	1	21.82	21.88	21.92	22.5
BW	MCS Index	Channel		373000	376500	380000	Max. Tune-up
		Frequency (MHz)		1865	1882.5	1900	
30M	CP-OFDM QPSK	1	1	21.83	21.85	21.90	22.5
BW	MCS Index	Channel		372500	376500	380500	Max. Tune-up
		Frequency (MHz)		1862.5	1882.5	1902.5	
25M	CP-OFDM QPSK	1	1	21.77	21.81	21.85	22.5
BW	MCS Index	Channel		372000	376500	381000	Max. Tune-up
		Frequency (MHz)		1860	1882.5	1905	
20M	CP-OFDM QPSK	1	1	21.75	21.79	21.76	22.5
BW	MCS Index	Channel		371500	376500	381500	Max. Tune-up
		Frequency (MHz)		1857.5	1882.5	1907.5	
15M	CP-OFDM QPSK	1	1	21.72	21.66	21.71	22.5
BW	MCS Index	Channel		371000	376500	382000	Max. Tune-up
		Frequency (MHz)		1855	1882.5	1910	
10M	CP-OFDM QPSK	1	1	21.59	21.76	21.66	22.5
BW	MCS Index	Channel		370500	376500	382500	Max. Tune-up
		Frequency (MHz)		1852.5	1882.5	1912.5	
5M	CP-OFDM QPSK	1	1	21.53	21.63	21.60	22.5

n25 (SCS 15 kHz)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		374000	376500	379000		
		Frequency (MHz)		1870	1882.5	1895		
40M	DFT-s-OFDM Pi/2 BPSK	1	1	23.25	23.28	23.23	24	
		1	108	23.34	23.38	23.28	24	
		1	214	23.36	23.33	23.23	24	
		108	0	22.79	22.78	22.87	24	
		108	54	23.31	23.22	23.26	24	
		108	108	22.81	22.86	22.87	24	
		216	0	22.85	22.78	22.86	24	
		1	1	23.39	23.41	23.36	24	
		1	108	23.28	23.32	23.35	24	
	1	214	23.38	23.38	23.33	24		
	DFT-s-OFDM QPSK	108	0	22.32	22.34	22.41	24	
		108	54	23.37	23.26	23.33	24	
		108	108	22.34	22.39	22.38	24	
		216	0	22.39	22.33	22.37	23	
		1	1	22.17	22.19	22.25	23	
	DFT-s-OFDM 16QAM	1	1	20.90	21.00	20.97	21.5	
	DFT-s-OFDM 64QAM	1	1	19.02	19.06	19.06	19.5	
	DFT-s-OFDM 256QAM	1	1	19.02	19.06	19.06	19.5	
	BW	MCS Index	Channel		373000	376500	380000	Max. Tune-up
			Frequency (MHz)		1865	1882.5	1900	
	30M	DFT-s-OFDM QPSK	1	1	23.34	23.38	23.31	24
	BW	MCS Index	Channel		372500	376500	380500	Max. Tune-up
			Frequency (MHz)		1862.5	1882.5	1902.5	
25M	DFT-s-OFDM QPSK	1	1	23.25	23.29	23.11	24	
BW	MCS Index	Channel		372000	376500	381000	Max. Tune-up	
		Frequency (MHz)		1860	1882.5	1905		
20M	DFT-s-OFDM QPSK	1	1	23.22	23.25	23.31	24	
BW	MCS Index	Channel		371500	376500	381500	Max. Tune-up	
		Frequency (MHz)		1857.5	1882.5	1907.5		
15M	DFT-s-OFDM QPSK	1	1	23.09	23.18	23.25	24	
BW	MCS Index	Channel		371000	376500	382000	Max. Tune-up	
		Frequency (MHz)		1855	1882.5	1910		
10M	DFT-s-OFDM QPSK	1	1	23.27	23.30	23.30	24	
BW	MCS Index	Channel		370500	376500	382500	Max. Tune-up	
		Frequency (MHz)		1852.5	1882.5	1912.5		
5M	DFT-s-OFDM QPSK	1	1	23.21	23.22	23.18	24	

n30 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		462000	462000	462000	
		Frequency (MHz)		2310	2310	2310	
10M	CP-OFDM QPSK	1	1	21.99			22.5
BW	MCS Index	Channel		461500	462000	462500	Max. Tune-up
		Frequency (MHz)		2307.5	2310	2312.5	
5M	CP-OFDM QPSK	1	1	21.92	21.95	21.97	22.5

n30 (SCS 15 kHz)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		462000	462000	462000		
		Frequency (MHz)		2310	2310	2310		
10M	DFT-s-OFDM Pi/2 BPSK	1	1	23.37			24	
		1	26	23.35			24	
		1	50	23.31			24	
		25	0	22.81			24	
		25	14	23.35			24	
		25	27	22.86			24	
		50	0	22.89			24	
		1	1	23.40			24	
		1	26	23.38			24	
	1	50	23.36			24		
	DFT-s-OFDM QPSK	25	0	22.33			24	
		25	14	23.36			24	
		25	27	22.40			24	
		50	0	22.43			23	
		1	1	22.33			23	
	DFT-s-OFDM 16QAM	1	1	21.03			21.5	
	DFT-s-OFDM 64QAM	1	1	18.58			19.5	
	DFT-s-OFDM 256QAM	1	1	18.58			19.5	
	BW	MCS Index	Channel		461500	462000	462500	Max. Tune-up
			Frequency (MHz)		2307.5	2310	2312.5	
	5M	DFT-s-OFDM QPSK	1	1	23.25	23.27	23.35	24

n38 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		518004	519000	519996	
		Frequency (MHz)		2590.02	2595	2599.98	
40M	CP-OFDM QPSK	1	1	21.58	21.41	21.46	22.5
BW	MCS Index	Channel		517002	519000	520998	Max. Tune-up
		Frequency (MHz)		2585.01	2595	2604.99	
30M	CP-OFDM QPSK	1	1	21.52	21.40	21.43	22.5
BW	MCS Index	Channel		516504	519000	521496	Max. Tune-up
		Frequency (MHz)		2582.52	2595	2607.48	
20M	CP-OFDM QPSK	1	1	21.43	21.32	21.37	22.5

n38 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		518004	519000	519996	
		Frequency (MHz)		2590.02	2595	2599.98	
40M	DFT-s-OFDM 1/2 BPSK	1	1	22.99	22.92	22.90	24
		1	53	22.90	22.79	22.77	24
		1	104	22.91	22.84	22.78	24
		50	0	22.46	22.43	22.40	24
		50	28	22.93	22.80	22.82	24
		50	56	22.33	22.34	22.34	24
		100	0	22.48	22.32	22.31	24
	DFT-s-OFDM QPSK	1	1	23.09	23.05	23.03	24
		1	53	22.99	22.88	22.86	24
		1	104	22.97	22.90	22.87	24
		50	0	21.97	21.96	21.95	24
		50	28	22.93	22.83	22.80	24
		50	56	21.86	21.83	21.81	24
		100	0	21.95	21.84	21.81	23
	DFT-s-OFDM 16QAM	1	1	22.03	21.90	21.91	23
	DFT-s-OFDM 64QAM	1	1	20.80	20.60	20.63	21.5
	DFT-s-OFDM 256QAM	1	1	18.73	18.62	18.66	19.5
BW	MCS Index	Channel		517002	519000	520998	Max. Tune-up
		Frequency (MHz)		2585.01	2595	2604.99	
30M	DFT-s-OFDM QPSK	1	1	23.03	23.07	23.02	24
BW	MCS Index	Channel		516504	519000	521496	Max. Tune-up
		Frequency (MHz)		2582.52	2595	2607.48	
20M	DFT-s-OFDM QPSK	1	1	23.00	23.05	22.97	24

n41 (SCS 30 kHz) Ant1							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		509202	518598	528000	
		Frequency (MHz)		2546.01	2592.99	2640	
100	CP-OFDM QPSK	1	1	21.51	21.55	21.46	22.5
BW	MCS Index	Channel		508200	518598	528996	Max. Tune-up
		Frequency (MHz)		2541	2592.99	2644.98	
90M	CP-OFDM QPSK	1	1	21.48	21.56	21.51	22.5
BW	MCS Index	Channel		507204	518598	529998	Max. Tune-up
		Frequency (MHz)		2536.02	2592.99	2649.99	
80M	CP-OFDM QPSK	1	1	21.43	21.57	21.56	22.5
BW	MCS Index	Channel		505200	518598	531996	Max. Tune-up
		Frequency (MHz)		2526	2592.99	2659.98	
60M	CP-OFDM QPSK	1	1	21.39	21.53	21.55	22.5
BW	MCS Index	Channel		504204	518598	532998	Max. Tune-up
		Frequency (MHz)		2521.02	2592.99	2664.99	
50M	CP-OFDM QPSK	1	1	21.44	21.49	21.48	22.5
BW	MCS Index	Channel		503202	518598	534000	Max. Tune-up
		Frequency (MHz)		2516.01	2592.99	2670	
40M	CP-OFDM QPSK	1	1	21.47	21.58	21.53	22.5
BW	MCS Index	Channel		502200	518598	534996	Max. Tune-up
		Frequency (MHz)		2511	2592.99	2674.98	
30M	CP-OFDM QPSK	1	1	21.42	21.56	21.51	22.5
BW	MCS Index	Channel		501204	518598	535998	Max. Tune-up
		Frequency (MHz)		2506.02	2592.99	2679.99	
20M	CP-OFDM QPSK	1	1	21.39	21.61	21.57	22.5

n41 (SCS 30 kHz) Ant1							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		509202	518598	528000	
		Frequency (MHz)		2546.01	2592.99	2640	
100M	DFT-s-OFDM 1/2 BPSK	1	1	23.06	22.99	22.92	24
		1	137	22.84	22.74	22.66	24
		1	271	22.76	22.62	22.61	24
		135	0	22.46	22.31	22.27	24
		135	69	22.87	22.80	22.78	24
		135	138	22.34	22.19	22.15	24
		270	0	22.37	22.29	22.23	24
	DFT-s-OFDM QPSK	1	1	23.10	23.08	22.96	24
		1	137	22.99	22.87	22.83	24
		1	271	22.76	22.71	22.62	24
		135	0	21.92	21.89	21.82	24
		135	69	22.91	22.85	22.74	24
		135	138	21.74	21.67	21.68	24
		270	0	21.86	21.81	21.74	23
	DFT-s-OFDM 16QAM	1	1	21.96	21.93	21.84	23
	DFT-s-OFDM 64QAM	1	1	20.69	20.58	20.58	21.5
	DFT-s-OFDM 256QAM	1	1	18.70	18.68	18.56	19.5
BW	MCS Index	Channel		508200	518598	528996	Max. Tune-up
		Frequency (MHz)		2541	2592.99	2644.98	
90M	DFT-s-OFDM QPSK	1	1	23.01	23.05	23.01	24
BW	MCS Index	Channel		507204	518598	529998	Max. Tune-up
		Frequency (MHz)		2536.02	2592.99	2649.99	
80M	DFT-s-OFDM QPSK	1	1	22.98	23.03	22.97	24
BW	MCS Index	Channel		505200	518598	531996	Max. Tune-up
		Frequency (MHz)		2526	2592.99	2659.98	
60M	DFT-s-OFDM QPSK	1	1	22.92	22.95	22.93	24
BW	MCS Index	Channel		504204	518598	532998	Max. Tune-up
		Frequency (MHz)		2521.02	2592.99	2664.99	
50M	DFT-s-OFDM QPSK	1	1	23.02	23.09	23.01	24
BW	MCS Index	Channel		503202	518598	534000	Max. Tune-up
		Frequency (MHz)		2516.01	2592.99	2670	
40M	DFT-s-OFDM QPSK	1	1	22.94	23.02	22.97	24
BW	MCS Index	Channel		502200	518598	534996	Max. Tune-up
		Frequency (MHz)		2511	2592.99	2674.98	
30M	DFT-s-OFDM QPSK	1	1	23.00	23.11	23.07	24
BW	MCS Index	Channel		501204	518598	535998	Max. Tune-up
		Frequency (MHz)		2506.02	2592.99	2679.99	
20M	DFT-s-OFDM QPSK	1	1	22.94	23.02	22.98	24

n48 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		638000	641666	645332	
		Frequency (MHz)		3570	3624.99	3679.98	
40M	CP-OFDM QPSK	1	1	22.13	22.15	22.17	22.5
BW	MCS Index	Channel		637334	641666	646000	Max. Tune-up
		Frequency (MHz)		3560.01	3624.99	3690	
20M	CP-OFDM QPSK	1	1	22.09	22.09	22.18	22.5
BW	MCS Index	Channel		637000	641666	646332	Max. Tune-up
		Frequency (MHz)		3555	3624.99	3694.98	
10M	CP-OFDM QPSK	1	1	22.13	22.14	22.09	22.5

n48 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		638000	641666	645332	
		Frequency (MHz)		3570	3624.99	3679.98	
40M	DFT-s-OFDM 1/2 BPSK	1	1	23.57	23.65	23.67	24
		1	53	23.41	23.51	23.46	24
		1	104	23.39	23.57	23.48	24
		50	0	23.01	23.11	23.10	24
		50	28	23.35	23.50	23.42	24
		50	56	22.97	23.10	23.08	24
		100	0	22.95	23.12	23.04	24
	DFT-s-OFDM QPSK	1	1	23.63	23.69	23.65	24
		1	53	23.32	23.45	23.38	24
		1	104	23.38	23.53	23.44	24
		50	0	22.46	22.54	22.56	24
		50	28	23.43	23.53	23.48	24
		50	56	22.46	22.63	22.55	24
		100	0	22.41	22.46	22.47	23
	DFT-s-OFDM 16QAM	1	1	22.29	22.39	22.38	23
	DFT-s-OFDM 64QAM	1	1	20.48	20.63	20.55	21.5
	DFT-s-OFDM 256QAM	1	1	18.54	18.67	18.65	19.5
BW	MCS Index	Channel		637334	641666	646000	Max. Tune-up
		Frequency (MHz)		3560.01	3624.99	3690	
20M	DFT-s-OFDM QPSK	1	1	23.60	23.62	23.58	24
BW	MCS Index	Channel		637000	641666	646332	Max. Tune-up
		Frequency (MHz)		3555	3624.99	3694.98	
10M	DFT-s-OFDM QPSK	1	1	23.63	23.65	23.59	24

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	CP-OFDM QPSK	1	1	22.04	21.94	21.93	22.5
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		Frequency (MHz)		1725	1745	1765	
30M	CP-OFDM QPSK	1	1	22.00	21.86	21.97	22.5
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	CP-OFDM QPSK	1	1	21.98	21.92	21.92	22.5
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	CP-OFDM QPSK	1	1	21.92	21.94	21.94	22.5
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	CP-OFDM QPSK	1	1	21.88	21.99	21.83	22.5
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	CP-OFDM QPSK	1	1	22.08	22.00	21.89	22.5

n66 (SCS 15 kHz)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		346000	349000	352000		
		Frequency (MHz)		1730	1745	1760		
40M	DFT-s-OFDM P1/2 BPSK	1	1	23.36	23.25	23.30	24	
		1	108	23.34	23.26	23.35	24	
		1	214	23.42	23.35	23.32	24	
		108	0	22.77	22.70	22.75	24	
		108	54	23.41	23.32	23.39	24	
		108	108	22.96	22.85	22.90	24	
		216	0	22.20	22.82	22.91	24	
		1	1	23.47	23.35	23.45	24	
		1	108	23.43	23.41	23.43	24	
	DFT-s-OFDM QPSK	1	214	23.37	23.35	23.45	24	
		108	0	22.30	22.28	22.30	24	
		108	54	23.44	23.35	23.42	24	
		108	108	22.49	22.38	22.43	24	
		216	0	22.45	22.37	22.46	23	
		DFT-s-OFDM 16QAM	1	1	22.35	22.28	22.25	23
		DFT-s-OFDM 64QAM	1	1	21.04	20.95	21.00	21.5
		DFT-s-OFDM 256QAM	1	1	19.09	18.98	19.05	19.5
		BW	MCS Index	Channel		345000	349000	353000
Frequency (MHz)				1725	1745	1765		
30M	DFT-s-OFDM QPSK	1	1	23.42	23.37	23.42	24	
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up	
		Frequency (MHz)		1720	1745	1770		
20M	DFT-s-OFDM QPSK	1	1	23.40	23.37	23.46	24	
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up	
		Frequency (MHz)		1717.5	1745	1772.5		
15M	DFT-s-OFDM QPSK	1	1	23.37	23.32	23.29	24	
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up	
		Frequency (MHz)		1715	1745	1775		
10M	DFT-s-OFDM QPSK	1	1	23.33	23.28	23.27	24	
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up	
		Frequency (MHz)		1712.5	1745	1777.5		
5M	DFT-s-OFDM QPSK	1	1	23.41	23.31	23.33	24	

n71 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		134100	136100	138100	
		Frequency (MHz)		670.5	680.5	690.5	
15M	CP-OFDM QPSK	1	1	21.52	21.58	21.44	22.5
BW	MCS Index	Channel		133600	136100	138600	Max. Tune-up
		Frequency (MHz)		668	680.5	693	
10M	CP-OFDM QPSK	1	1	21.50	21.54	21.41	22.5
BW	MCS Index	Channel		133100	136100	139100	Max. Tune-up
		Frequency (MHz)		665.5	680.5	695.5	
5M	CP-OFDM QPSK	1	1	21.48	21.53	21.39	22.5

n71 (SCS 15 kHz)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		134100	136100	138100		
		Frequency (MHz)		670.5	680.5	690.5		
15M	DFT-s-OFDM P1/2 BPSK	1	1	23.01	23.07	22.88	24	
		1	37	22.96	22.94	22.81	24	
		1	74	22.85	22.93	22.72	24	
		36	0	22.51	22.52	22.36	24	
		36	19	22.90	22.89	22.71	24	
		36	39	22.26	22.28	22.14	24	
		75	0	22.46	22.49	22.23	24	
		1	1	23.06	23.09	22.89	24	
		1	37	23.00	22.99	22.83	24	
	DFT-s-OFDM QPSK	1	74	22.89	22.87	22.74	24	
		36	0	21.97	22.05	21.84	24	
		36	19	22.95	22.93	22.80	24	
		36	39	21.78	21.86	21.65	24	
		75	0	21.95	21.96	21.80	23	
		DFT-s-OFDM 16QAM	1	1	22.00	21.99	21.81	23
		DFT-s-OFDM 64QAM	1	1	20.62	20.64	20.50	21.5
		DFT-s-OFDM 256QAM	1	1	18.23	18.26	18.00	19.5
		BW	MCS Index	Channel		133600	136100	138600
Frequency (MHz)				668	680.5	693		
10M	DFT-s-OFDM QPSK	1	1	23.00	23.03	22.95	24	
BW	MCS Index	Channel		133100	136100	139100	Max. Tune-up	
		Frequency (MHz)		665.5	680.5	695.5		
5M	DFT-s-OFDM QPSK	1	1	23.01	22.96	22.92	24	

n77 Part27Q (SCS 30 kHz) Ant7							
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)
				Channel	633334	3500.01	
100M	CP-OFDM QPSK	1	1	Channel	632668	633334	634000
				Frequency (MHz)	3490.02	3500.01	3510
80M	CP-OFDM QPSK	1	1	Channel	632000	633334	634666
				Frequency (MHz)	3480	3500.01	3519.99
60M	CP-OFDM QPSK	1	1	Channel	631668	633334	634998
				Frequency (MHz)	3475.02	3500.01	3524.97
50M	CP-OFDM QPSK	1	1	Channel	631334	633334	635332
				Frequency (MHz)	3470.01	3500.01	3529.98
40M	CP-OFDM QPSK	1	1	Channel	631002	633334	635664
				Frequency (MHz)	3465.03	3500.01	3534.96
30M	CP-OFDM QPSK	1	1	Channel	630668	633334	636000
				Frequency (MHz)	3460.02	3500.01	3540
20M	CP-OFDM QPSK	1	1	Channel	630334	633334	636332
				Frequency (MHz)	3455.03	3500.01	3545.97

n77 Part27Q (SCS 30 kHz) Ant7										
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)			
				Channel	633334	3500.01				
100M	DFT-s-OFDM P1/2 BPSK	1	1	Channel	632668	633334	634000			
				Frequency (MHz)	3490.02	3500.01	3510			
				1	137	22.82	24			
				1	271	22.91	24			
				135	0	22.46	24			
				135	69	22.80	24			
				135	138	22.41	24			
				270	0	22.41	24			
				DFT-s-OFDM QPSK	1	1	Channel	631668	633334	634998
							Frequency (MHz)	3475.02	3500.01	3524.97
							1	137	22.73	24
							1	271	22.84	24
							135	0	22.28	24
							135	69	22.69	24
	135	138	22.01				24			
	270	0	21.98				23			
	DFT-s-OFDM 16QAM	1	1				Channel	631002	633334	635664
							Frequency (MHz)	3465.03	3500.01	3534.96
	DFT-s-OFDM 64QAM	1	1	Channel	630668	633334	636000			
				Frequency (MHz)	3460.02	3500.01	3540			
	DFT-s-OFDM 256QAM	1	1	Channel	630334	633334	636332			
				Frequency (MHz)	3455.03	3500.01	3545.97			
	80M	DFT-s-OFDM QPSK	1	1	Channel	632668	633334	634000		
					Frequency (MHz)	3490.02	3500.01	3510		
	60M	DFT-s-OFDM QPSK	1	1	Channel	631668	633334	634998		
					Frequency (MHz)	3475.02	3500.01	3524.97		
50M	DFT-s-OFDM QPSK	1	1	Channel	631334	633334	635332			
				Frequency (MHz)	3470.01	3500.01	3529.98			
40M	DFT-s-OFDM QPSK	1	1	Channel	631002	633334	635664			
				Frequency (MHz)	3465.03	3500.01	3534.96			
30M	DFT-s-OFDM QPSK	1	1	Channel	630668	633334	636000			
				Frequency (MHz)	3460.02	3500.01	3540			
20M	DFT-s-OFDM QPSK	1	1	Channel	630334	633334	636332			
				Frequency (MHz)	3455.03	3500.01	3545.97			

n77 Part27O (SCS 30 kHz) Ant7							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	650000	656000	
100M	CP-OFDM QPSK	1	1	Channel	648668	656000	662328
				Frequency (MHz)	3750	3840	3930
90M	CP-OFDM QPSK	1	1	Channel	649334	656000	662666
				Frequency (MHz)	3740.01	3840	3939.99
80M	CP-OFDM QPSK	1	1	Channel	648668	656000	663332
				Frequency (MHz)	3730.02	3840	3949.98
60M	CP-OFDM QPSK	1	1	Channel	648336	656000	663666
				Frequency (MHz)	3725.04	3840	3954.99
50M	CP-OFDM QPSK	1	1	Channel	648000	656000	664000
				Frequency (MHz)	3720	3840	3960
40M	CP-OFDM QPSK	1	1	Channel	647670	656000	664332
				Frequency (MHz)	3715.05	3840	3964.98
30M	CP-OFDM QPSK	1	1	Channel	647334	656000	664666
				Frequency (MHz)	3710.01	3840	3969.99
20M	CP-OFDM QPSK	1	1	Channel	647002	656000	665000
				Frequency (MHz)	3705.03	3840	3975.00

n77 Part27O (SCS 30 kHz) Ant7											
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)				
				Channel	650000	656000		662000			
100M	DFT-s-OFDM P1/2 BPSK	1	1	Channel	649668	656000	662328				
				Frequency (MHz)	3745.02	3840	3934.92				
				1	137	23.09	23.26	24			
				1	271	23.07	23.21	24			
				135	0	22.56	22.69	24			
				135	69	23.15	23.28	24			
				135	138	22.57	22.72	24			
				270	0	22.59	22.76	24			
				DFT-s-OFDM QPSK	1	1	Channel	648668	656000	663332	
							Frequency (MHz)	3730.02	3840	3949.98	
							1	137	23.19	23.27	24
							1	271	23.14	23.28	24
							135	0	22.09	22.27	24
							135	69	23.16	23.24	24
	135	138	22.10				22.25	24			
	270	0	22.10				22.27	23			
	DFT-s-OFDM 16QAM	1	1				Channel	648000	656000	664000	
							Frequency (MHz)	3720	3840	3960	
	DFT-s-OFDM 64QAM	1	1	Channel	647670	656000	664332				
				Frequency (MHz)	3715.05	3840	3964.98				
	DFT-s-OFDM 256QAM	1	1	Channel	647334	656000	664666				
				Frequency (MHz)	3710.01	3840	3969.99				
	90M	DFT-s-OFDM QPSK	1	1	Channel	649334	656000	662666			
					Frequency (MHz)	3740.01	3840	3939.99			
	80M	DFT-s-OFDM QPSK	1	1	Channel	648668	656000	663332			
					Frequency (MHz)	3730.02	3840	3949.98			
60M	DFT-s-OFDM QPSK	1	1	Channel	648336	656000	663666				
				Frequency (MHz)	3725.04	3840	3954.99				
50M	DFT-s-OFDM QPSK	1	1	Channel	648000	656000	664000				
				Frequency (MHz)	3720	3840	3960				
40M	DFT-s-OFDM QPSK	1	1	Channel	647670	656000	664332				
				Frequency (MHz)	3715.05	3840	3964.98				
30M	DFT-s-OFDM QPSK	1	1	Channel	647334	656000	664666				
				Frequency (MHz)	3710.01	3840	3969.99				
20M	DFT-s-OFDM QPSK	1	1	Channel	647002	656000	665000				
				Frequency (MHz)	3705.03	3840	3975.00				

n78 (SCS 30 kHz)								
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)	
		Channel			Mid			
		Frequency (MHz)			3500.01			
100M	CP-OFDM QPSK	1	1		21.64		22.5	
BW	MCS Index	Channel			633000	633334	633666	Max. Tune-up
		Frequency (MHz)			3495	3500.01	3504.99	
90M	CP-OFDM QPSK	1	1	21.55	21.61	21.73	22.5	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.52	21.55	21.74	22.5	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.53	21.52	21.63	22.5	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.52	21.58	21.75	22.5	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.57	21.62	21.81	22.5	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.52	21.60	21.70	22.5	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.49	21.63	21.74	22.5	

n78 (SCS 30 kHz)								
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)	
		Channel			Mid			
		Frequency (MHz)			3500.01			
100M	DFT-s-OFDM Pi/2 BPSK	1	1		23.14		24	
		1	137		22.94		24	
		1	271		22.83		24	
		135	0		22.58		24	
		135	69		22.96		24	
		135	138		22.45		24	
		270	0		22.46		24	
		1	1		23.27		24	
		1	137		23.01		24	
	DFT-s-OFDM QPSK	1	271		22.94		24	
		135	0		22.13		24	
		135	69		22.97		24	
		135	138		21.92		24	
		270	0		21.95		23	
		DFT-s-OFDM 16QAM	1	1		22.17		23
		DFT-s-OFDM 64QAM	1	1		20.91		21.5
		DFT-s-OFDM 256QAM	1	1		18.86		19.5
		BW	MCS Index	Channel			633000	633334
Frequency (MHz)				3495	3500.01	3504.99		
90M	DFT-s-OFDM QPSK	1	1	23.05	23.23	23.25	24	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	DFT-s-OFDM QPSK	1	1	23.01	23.19	23.17	24	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	DFT-s-OFDM QPSK	1	1	23.07	23.24	23.26	24	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	DFT-s-OFDM QPSK	1	1	23.00	23.15	23.14	24	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	DFT-s-OFDM QPSK	1	1	23.03	23.09	23.17	24	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	DFT-s-OFDM QPSK	1	1	23.09	23.05	23.12	24	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	DFT-s-OFDM QPSK	1	1	22.99	23.13	23.09	24	

n77 Part27Q (SCS 30 kHz) Ant4							
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)
		Channel		633334			
		Frequency (MHz)		3500.01			
100M	CP-OFDM QPSK	1	1		21.77		22.5
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.61	21.73	21.79	22.5
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.62	21.71	21.68	22.5
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.58	21.69	21.64	22.5
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.55	21.83	21.74	22.5
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.59	21.77	21.70	22.5
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.57	21.80	21.81	22.5

n77 Part27Q (SCS 30 kHz) Ant4										
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)			
		Channel		633334						
		Frequency (MHz)		3500.01						
100M	DFT-s-OFDM Pi/2 BPSK	1	1		23.11		24			
		1	137		22.75		24			
		1	271		22.88		24			
		135	0		22.44		24			
		135	69		22.74		24			
		135	138		22.39		24			
		270	0		22.33		24			
		1	1		23.14		24			
		1	137		22.65		24			
		1	271		22.81		24			
		135	0		22.26		24			
		135	69		22.63		24			
	135	138		22.00		24				
	270	0		21.93		23				
	DFT-s-OFDM 16QAM	1	1		22.16		23			
		DFT-s-OFDM 64QAM	1	1		21.03		21.5		
			DFT-s-OFDM 256QAM	1	1		18.98		19.5	
				BW	MCS Index	Channel		632668	633334	634000
		Frequency (MHz)				3490.02	3500.01	3510		
		80M	DFT-s-OFDM QPSK	1	1	23.04	23.06	23.17	24	
		BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up	
	Frequency (MHz)			3480	3500.01	3519.99				
	60M	DFT-s-OFDM QPSK	1	1	23.00	23.07	23.10	24		
	BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up		
			Frequency (MHz)		3475.02	3500.01	3524.97			
	50M	DFT-s-OFDM QPSK	1	1	23.05	23.14	23.07	24		
	BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up		
			Frequency (MHz)		3470.01	3500.01	3529.98			
40M	DFT-s-OFDM QPSK	1	1	22.99	23.05	23.13	24			
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up			
		Frequency (MHz)		3465.03	3500.01	3534.96				
30M	DFT-s-OFDM QPSK	1	1	23.01	23.04	23.10	24			
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up			
		Frequency (MHz)		3460.02	3500.01	3540				
20M	DFT-s-OFDM QPSK	1	1	22.90	23.03	23.05	24			

n77 Part27O (SCS 30 kHz) Ant4							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		650000	656000	662000	
		Frequency (MHz)		3750	3840	3930	
100M	CP-OFDM QPSK	1	1	21.46	21.60	21.55	22.5
BW	MCS Index	Channel		649668	656000	662328	Max. Tune-up
		Frequency (MHz)		3745.02	3840	3934.92	
90M	CP-OFDM QPSK	1	1	21.49	21.62	21.50	22.5
BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up
		Frequency (MHz)		3740.01	3840	3939.99	
80M	CP-OFDM QPSK	1	1	21.47	21.58	21.56	22.5
BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up
		Frequency (MHz)		3730.02	3840	3949.98	
60M	CP-OFDM QPSK	1	1	21.44	21.56	21.52	22.5
BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up
		Frequency (MHz)		3725.04	3840	3954.99	
50M	CP-OFDM QPSK	1	1	21.45	21.58	21.45	22.5
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up
		Frequency (MHz)		3720	3840	3960	
40M	CP-OFDM QPSK	1	1	21.39	21.58	21.10	22.5
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up
		Frequency (MHz)		3715.05	3840	3964.98	
30M	CP-OFDM QPSK	1	1	21.49	21.53	21.54	22.5
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up
		Frequency (MHz)		3710.01	3840	3969.99	
20M	CP-OFDM QPSK	1	1	21.49	21.61	21.56	22.5

n77 Part27O (SCS 30 kHz) Ant4										
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)			
		Channel		650000	656000	662000				
		Frequency (MHz)		3750	3840	3930				
100M	DFT-s-OFDM Pi/2 BPSK	1	1	22.99	23.10	23.15	24			
		1	137	23.09	23.16	23.26	24			
		1	271	23.02	23.17	23.23	24			
		135	0	22.71	22.79	22.89	24			
		135	69	23.07	23.21	23.28	24			
		135	138	22.52	22.60	22.70	24			
		270	0	22.50	22.67	22.74	24			
		1	1	23.11	23.20	23.33	24			
		1	137	23.12	23.19	23.30	24			
		1	271	23.03	23.17	23.24	24			
		135	0	21.98	22.11	22.21	24			
		135	69	22.99	23.13	23.20	24			
	135	138	22.03	22.10	22.21	24				
	270	0	22.09	22.19	22.26	23				
	DFT-s-OFDM 16QAM	1	1	21.93	22.01	22.14	23			
		DFT-s-OFDM 64QAM	1	1	20.77	20.87	20.94	21.5		
			DFT-s-OFDM 256QAM	1	1	18.78	18.86	18.99	19.5	
				BW	MCS Index	Channel		649668	656000	662328
		Frequency (MHz)				3745.02	3840	3934.92		
		90M	DFT-s-OFDM QPSK	1	1	23.16	23.20	23.25	24	
		BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up	
	Frequency (MHz)			3740.01	3840	3939.99				
	80M	DFT-s-OFDM QPSK	1	1	23.22	23.26	23.27	24		
	BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up		
			Frequency (MHz)		3730.02	3840	3949.98			
	60M	DFT-s-OFDM QPSK	1	1	23.17	23.20	23.23	24		
	BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up		
			Frequency (MHz)		3725.04	3840	3954.99			
50M	DFT-s-OFDM QPSK	1	1	23.18	23.14	23.19	24			
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up			
		Frequency (MHz)		3720	3840	3960				
40M	DFT-s-OFDM QPSK	1	1	23.15	23.15	23.18	24			
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up			
		Frequency (MHz)		3715.05	3840	3964.98				
30M	DFT-s-OFDM QPSK	1	1	23.18	23.19	23.24	24			
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up			
		Frequency (MHz)		3710.01	3840	3969.99				
20M	DFT-s-OFDM QPSK	1	1	23.11	23.18	23.23	24			

n77 Part27Q (SCS 30 kHz) Ant5							
BW	MCS Index	RB Size	RB Offset	Mid		Max. Tune-up (dBm)	
		Channel		633334			
		Frequency (MHz)		3500.01			
100M	CP-OFDM QPSK	1	1	21.76		22.5	
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.65	21.72	21.75	22.5
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.65	21.70	21.65	22.5
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.55	21.67	21.65	22.5
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.59	21.81	21.73	22.5
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.66	21.71	21.73	22.5
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.63	21.76	21.77	22.5

n77 Part27Q (SCS 30 kHz) Ant5								
BW	MCS Index	RB Size	RB Offset	Mid		Max. Tune-up (dBm)		
		Channel		633334				
		Frequency (MHz)		3500.01				
100M	DFT-s-OFDM P1/2 BPSK	1	1	23.05		24		
		1	137	22.69		24		
		1	271	22.86		24		
		135	0	22.39		24		
		135	69	22.72		24		
		135	138	22.38		24		
		270	0	22.28		24		
		1	1	23.13		24		
	DFT-s-OFDM QPSK	1	137	22.60		24		
		1	271	22.79		24		
		135	0	22.21		24		
		135	69	22.61		24		
		135	138	21.99		24		
		270	0	21.89		23		
		DFT-s-OFDM 16QAM	1	1	22.14		23	
		DFT-s-OFDM 64QAM	1	1	20.98		21.5	
	DFT-s-OFDM 256QAM	1	1	18.96		19.5		
	BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
			Frequency (MHz)		3490.02	3500.01	3510	
	80M	DFT-s-OFDM QPSK	1	1	23.03	23.09	23.12	24
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up	
		Frequency (MHz)		3480	3500.01	3519.99		
60M	DFT-s-OFDM QPSK	1	1	23.02	23.10	23.13	24	
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up	
		Frequency (MHz)		3475.02	3500.01	3524.97		
50M	DFT-s-OFDM QPSK	1	1	23.03	23.17	23.12	24	
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up	
		Frequency (MHz)		3470.01	3500.01	3529.98		
40M	DFT-s-OFDM QPSK	1	1	23.00	23.09	23.09	24	
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up	
		Frequency (MHz)		3465.03	3500.01	3534.96		
30M	DFT-s-OFDM QPSK	1	1	23.03	23.01	23.09	24	
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up	
		Frequency (MHz)		3460.02	3500.01	3540		
20M	DFT-s-OFDM QPSK	1	1	22.98	23.05	23.07	24	

n77 Part27O (SCS 30 kHz) Ant5							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		650000	656000	662000	
		Frequency (MHz)		3750	3840	3930	
100M	CP-OFDM QPSK	1	1	21.45	21.58	21.59	22.5
BW	MCS Index	Channel		649668	656000	662328	Max. Tune-up
		Frequency (MHz)		3745.02	3840	3934.92	
90M	CP-OFDM QPSK	1	1	21.42	21.60	21.53	22.5
BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up
		Frequency (MHz)		3740.01	3840	3939.99	
80M	CP-OFDM QPSK	1	1	21.48	21.54	21.53	22.5
BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up
		Frequency (MHz)		3730.02	3840	3949.98	
60M	CP-OFDM QPSK	1	1	21.48	21.53	21.56	22.5
BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up
		Frequency (MHz)		3725.04	3840	3954.99	
50M	CP-OFDM QPSK	1	1	21.46	21.51	21.47	22.5
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up
		Frequency (MHz)		3720	3840	3960	
40M	CP-OFDM QPSK	1	1	21.41	21.51	21.30	22.5
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up
		Frequency (MHz)		3715.05	3840	3964.98	
30M	CP-OFDM QPSK	1	1	21.44	21.52	21.33	22.5
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up
		Frequency (MHz)		3710.01	3840	3969.99	
20M	CP-OFDM QPSK	1	1	21.44	21.54	21.50	22.5

n77 Part27O (SCS 30 kHz) Ant5								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		650000	656000	662000		
		Frequency (MHz)		3750	3840	3930		
100M	DFT-s-OFDM P1/2 BPSK	1	1	22.95	23.04	23.13	24	
		1	137	23.05	23.14	23.28	24	
		1	271	23.05	23.12	23.25	24	
		135	0	22.62	22.64	22.81	24	
		135	69	22.99	23.09	23.22	24	
		135	138	22.50	22.58	22.73	24	
		270	0	22.51	22.54	22.70	24	
		1	1	23.08	23.14	23.31	24	
	DFT-s-OFDM QPSK	1	137	23.05	23.08	23.25	24	
		1	271	22.98	23.08	23.21	24	
		135	0	22.09	22.12	22.29	24	
		135	69	22.99	23.12	23.25	24	
		135	138	22.01	22.10	22.25	24	
		270	0	22.00	22.10	22.20	23	
		DFT-s-OFDM 16QAM	1	1	21.92	22.01	22.15	23
		DFT-s-OFDM 64QAM	1	1	20.74	20.80	20.94	21.5
	DFT-s-OFDM 256QAM	1	1	18.72	18.78	18.92	19.5	
	BW	MCS Index	Channel		649668	656000	662328	Max. Tune-up
			Frequency (MHz)		3745.02	3840	3934.92	
	90M	DFT-s-OFDM QPSK	1	1	23.16	23.30	23.21	24
BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up	
		Frequency (MHz)		3740.01	3840	3939.99		
80M	DFT-s-OFDM QPSK	1	1	23.20	23.22	23.26	24	
BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up	
		Frequency (MHz)		3730.02	3840	3949.98		
60M	DFT-s-OFDM QPSK	1	1	23.18	23.21	23.20	24	
BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up	
		Frequency (MHz)		3725.04	3840	3954.99		
50M	DFT-s-OFDM QPSK	1	1	23.14	23.16	23.12	24	
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up	
		Frequency (MHz)		3720	3840	3960		
40M	DFT-s-OFDM QPSK	1	1	23.11	23.16	23.15	24	
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up	
		Frequency (MHz)		3715.05	3840	3964.98		
30M	DFT-s-OFDM QPSK	1	1	23.19	23.22	23.27	24	
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up	
		Frequency (MHz)		3710.01	3840	3969.99		
20M	DFT-s-OFDM QPSK	1	1	23.21	23.26	23.25	24	

n77 Part27Q (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)	
		Channel		633334				
		Frequency (MHz)		3500.01				
100M	CP-OFDM QPSK	1	1		21.78		22.5	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.61	21.76	21.74	22.5	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.61	21.69	21.67	22.5	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.59	21.68	21.61	22.5	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.54	21.77	21.71	22.5	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.68	21.66	21.75	22.5	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.60	21.75	21.71	22.5	

n77 Part27Q (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Mid			Max. Tune-up (dBm)	
		Channel		633334				
		Frequency (MHz)		3500.01				
100M	DFT-s-OFDM P/2 BPSK	1	1		23.02		24	
		1	137		22.67		24	
		1	271		22.80		24	
		135	0		22.38		24	
		135	69		22.65		24	
		135	138		22.35		24	
		270	0		22.26		24	
		1	1		23.07		24	
	DFT-s-OFDM QPSK	1	137		22.58		24	
		1	271		22.71		24	
		135	0		22.19		24	
		135	69		22.53		24	
		135	138		21.96		24	
		270	0		21.87		23	
		DFT-s-OFDM 16QAM	1	1		22.08		23
		DFT-s-OFDM 64QAM	1	1		20.97		21.5
DFT-s-OFDM 256QAM	1	1		18.91		19.5		
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	DFT-s-OFDM QPSK	1	1	23.01	23.02	23.07	24	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	DFT-s-OFDM QPSK	1	1	23.05	23.09	23.15	24	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	DFT-s-OFDM QPSK	1	1	23.01	23.11	23.13	24	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	DFT-s-OFDM QPSK	1	1	23.05	23.10	23.01	24	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	DFT-s-OFDM QPSK	1	1	23.01	23.06	23.05	24	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	DFT-s-OFDM QPSK	1	1	22.95	23.01	23.03	24	

n77 Part27O (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		650000	656000	662000		
		Frequency (MHz)		3750	3840	3930		
100M	CP-OFDM QPSK	1	1	21.42	21.51	21.53	22.5	
BW	MCS Index	Channel			649668	656000	662328	Max. Tune-up
		Frequency (MHz)			3745.02	3840	3934.92	
90M	CP-OFDM QPSK	1	1	21.48	21.62	21.52	22.5	
BW	MCS Index	Channel			649334	656000	662666	Max. Tune-up
		Frequency (MHz)			3740.01	3840	3939.99	
80M	CP-OFDM QPSK	1	1	21.44	21.53	21.55	22.5	
BW	MCS Index	Channel			648668	656000	663332	Max. Tune-up
		Frequency (MHz)			3730.02	3840	3949.98	
60M	CP-OFDM QPSK	1	1	21.49	21.51	21.54	22.5	
BW	MCS Index	Channel			648336	656000	663666	Max. Tune-up
		Frequency (MHz)			3725.04	3840	3954.99	
50M	CP-OFDM QPSK	1	1	21.44	21.52	21.43	22.5	
BW	MCS Index	Channel			648000	656000	664000	Max. Tune-up
		Frequency (MHz)			3720	3840	3960	
40M	CP-OFDM QPSK	1	1	21.46	21.50	21.39	22.5	
BW	MCS Index	Channel			647670	656000	664332	Max. Tune-up
		Frequency (MHz)			3715.05	3840	3964.98	
30M	CP-OFDM QPSK	1	1	21.45	21.51	21.36	22.5	
BW	MCS Index	Channel			647334	656000	664666	Max. Tune-up
		Frequency (MHz)			3710.01	3840	3969.99	
20M	CP-OFDM QPSK	1	1	21.42	21.48	21.52	22.5	

n77 Part27O (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)	
		Channel		650000	656000	662000		
		Frequency (MHz)		3750	3840	3930		
100M	DFT-s-OFDM P/2 BPSK	1	1	22.96	23.01	23.11	24	
		1	137	23.06	23.10	23.25	24	
		1	271	23.04	23.03	23.21	24	
		135	0	22.49	22.56	22.72	24	
		135	69	23.08	23.17	23.29	24	
		135	138	22.56	22.63	22.78	24	
		270	0	22.74	22.78	22.90	24	
		1	1	23.15	23.23	23.34	24	
	DFT-s-OFDM QPSK	1	137	23.02	23.07	23.22	24	
		1	271	23.11	23.12	23.27	24	
		135	0	22.02	22.11	22.22	24	
		135	69	23.16	23.18	23.33	24	
		135	138	22.01	22.09	22.21	24	
		270	0	22.73	22.75	22.90	23	
		DFT-s-OFDM 16QAM	1	1	22.02	22.13	22.25	23
		DFT-s-OFDM 64QAM	1	1	20.78	20.81	20.99	21.5
DFT-s-OFDM 256QAM	1	1	18.78	18.79	18.95	19.5		
BW	MCS Index	Channel			649668	656000	662328	Max. Tune-up
		Frequency (MHz)			3745.02	3840	3934.92	
90M	DFT-s-OFDM QPSK	1	1	23.17	23.25	23.23	24	
BW	MCS Index	Channel			649334	656000	662666	Max. Tune-up
		Frequency (MHz)			3740.01	3840	3939.99	
80M	DFT-s-OFDM QPSK	1	1	23.19	23.23	23.26	24	
BW	MCS Index	Channel			648668	656000	663332	Max. Tune-up
		Frequency (MHz)			3730.02	3840	3949.98	
60M	DFT-s-OFDM QPSK	1	1	23.15	23.23	23.20	24	
BW	MCS Index	Channel			648336	656000	663666	Max. Tune-up
		Frequency (MHz)			3725.04	3840	3954.99	
50M	DFT-s-OFDM QPSK	1	1	23.16	23.11	23.15	24	
BW	MCS Index	Channel			648000	656000	664000	Max. Tune-up
		Frequency (MHz)			3720	3840	3960	
40M	DFT-s-OFDM QPSK	1	1	23.14	23.19	23.22	24	
BW	MCS Index	Channel			647670	656000	664332	Max. Tune-up
		Frequency (MHz)			3715.05	3840	3964.98	
30M	DFT-s-OFDM QPSK	1	1	23.20	23.21	23.27	24	
BW	MCS Index	Channel			647334	656000	664666	Max. Tune-up
		Frequency (MHz)			3710.01	3840	3969.99	
20M	DFT-s-OFDM QPSK	1	1	23.28	23.21	23.24	24	

n78 Part27Q (SCS 30 kHz) Ant4							
BW	MCS Index	RB Size		RB Offset		Mid	Max. Tune-up (dBm)
		Channel				633334	
		Frequency (MHz)				3500.01	
100M	CP-OFDM QPSK	1	1			21.62	22.5
BW	MCS Index	Channel		633000	633334	633666	Max. Tune-up
		Frequency (MHz)		3495	3500.01	3504.99	
90M	CP-OFDM QPSK	1	1	21.56	21.60	21.74	22.5
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.55	21.56	21.72	22.5
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.51	21.50	21.60	22.5
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.54	21.59	21.74	22.5
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.51	21.61	21.77	22.5
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.59	21.65	21.50	22.5
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.55	21.67	21.73	22.5

n78 Part27Q (SCS 30 kHz) Ant4							
BW	MCS Index	RB Size		RB Offset		Mid	Max. Tune-up (dBm)
		Channel				633334	
		Frequency (MHz)				3500.01	
100M	DFT-s-OFDM P+V2 BPSK	1	1			23.06	24
		1	137			22.89	24
		1	271			22.82	24
		135	0			22.53	24
		135	69			22.94	24
		135	138			22.40	24
		270	0			22.44	24
	DFT-s-OFDM QPSK	1	1			23.24	24
		1	137			22.95	24
		1	271			22.92	24
		135	0			22.08	24
		135	69			22.90	24
		135	138			21.87	24
		270	0			21.93	23
DFT-s-OFDM 16QAM	1	1			22.16	23	
DFT-s-OFDM 64QAM	1	1			20.86	21.5	
DFT-s-OFDM 256QAM	1	1			18.85	19.5	
BW	MCS Index	Channel		633000	633334	633666	Max. Tune-up
		Frequency (MHz)		3495	3500.01	3504.99	
90M	DFT-s-OFDM QPSK	1	1	23.09	23.21	23.23	24
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	DFT-s-OFDM QPSK	1	1	23.02	23.07	23.15	24
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	DFT-s-OFDM QPSK	1	1	23.08	23.21	23.22	24
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	DFT-s-OFDM QPSK	1	1	23.05	23.16	23.11	24
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	DFT-s-OFDM QPSK	1	1	23.06	23.10	23.15	24
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	DFT-s-OFDM QPSK	1	1	23.10	23.07	23.10	24
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	DFT-s-OFDM QPSK	1	1	23.02	23.19	23.05	24

n78 Part27Q (SCS 30 kHz) Ant5							
BW	MCS Index	RB Size		RB Offset		Mid	Max. Tune-up (dBm)
		Channel				633334	
		Frequency (MHz)				3500.01	
100M	CP-OFDM QPSK	1	1			21.60	22.5
BW	MCS Index	Channel		633000	633334	633666	Max. Tune-up
		Frequency (MHz)		3495	3500.01	3504.99	
90M	CP-OFDM QPSK	1	1	21.59	21.57	21.71	22.5
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.65	21.59	21.70	22.5
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.58	21.60	21.63	22.5
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.58	21.66	21.71	22.5
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.58	21.64	21.72	22.5
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.58	21.61	21.50	22.5
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.57	21.64	21.79	22.5

n78 Part27Q (SCS 30 kHz) Ant5							
BW	MCS Index	RB Size		RB Offset		Mid	Max. Tune-up (dBm)
		Channel				633334	
		Frequency (MHz)				3500.01	
100M	DFT-s-OFDM P+V2 BPSK	1	1			23.03	24
		1	137			22.87	24
		1	271			22.76	24
		135	0			22.52	24
		135	69			22.87	24
		135	138			22.37	24
		270	0			22.42	24
	DFT-s-OFDM QPSK	1	1			23.20	24
		1	137			22.93	24
		1	271			22.84	24
		135	0			22.06	24
		135	69			22.82	24
		135	138			21.84	24
		270	0			21.91	23
DFT-s-OFDM 16QAM	1	1			22.10	23	
DFT-s-OFDM 64QAM	1	1			20.85	21.5	
DFT-s-OFDM 256QAM	1	1			18.80	19.5	
BW	MCS Index	Channel		633000	633334	633666	Max. Tune-up
		Frequency (MHz)		3495	3500.01	3504.99	
90M	DFT-s-OFDM QPSK	1	1	23.10	23.23	23.18	24
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	DFT-s-OFDM QPSK	1	1	23.12	23.06	23.14	24
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	DFT-s-OFDM QPSK	1	1	23.18	23.15	23.20	24
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	DFT-s-OFDM QPSK	1	1	23.09	23.08	23.16	24
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	DFT-s-OFDM QPSK	1	1	23.18	23.13	23.11	24
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	DFT-s-OFDM QPSK	1	1	23.10	23.05	23.14	24
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	DFT-s-OFDM QPSK	1	1	23.08	23.14	23.16	24

n78 Part27Q (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Channel			Max. Tune-up (dBm)	
				Channel	Mid			
				3500.01				
100M	CP-OFDM QPSK	1	1		21.10		22.5	
BW	MCS Index	Channel			633000	633334	633666	Max. Tune-up
		Frequency (MHz)			3495	3500.01	3504.99	
90M	CP-OFDM QPSK	1	1	21.51	21.52	21.69	22.5	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	21.60	21.51	21.71	22.5	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	21.52	21.53	21.50	22.5	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	21.51	21.64	21.66	22.5	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	21.52	21.57	21.63	22.5	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	21.55	21.61	21.63	22.5	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	21.54	21.60	21.62	22.5	

n78 Part27Q (SCS 30 kHz) Ant6								
BW	MCS Index	RB Size	RB Offset	Channel			Max. Tune-up (dBm)	
				Channel	Mid			
				3500.01				
100M	DFT-s-OFDM Pi/2 BPSK	1	1		23.06		24	
		1	137		22.89		24	
		1	271		22.77		24	
		135	0		22.59		24	
		135	69		22.88		24	
		135	138		22.40		24	
		270	0		22.44		24	
		1	1		23.21		24	
	DFT-s-OFDM QPSK	1	137		22.94		24	
		1	271		22.89		24	
		135	0		22.07		24	
		135	69		22.87		24	
		135	138		21.87		24	
		270	0		21.93		23	
		DFT-s-OFDM 16QAM	1	1		22.11		23
		DFT-s-OFDM 64QAM	1	1		20.92		21.5
DFT-s-OFDM 256QAM	1	1		18.88		19.5		
BW	MCS Index	Channel			633000	633334	633666	Max. Tune-up
		Frequency (MHz)			3495	3500.01	3504.99	
90M	DFT-s-OFDM QPSK	1	1	23.08	23.21	23.15	24	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	DFT-s-OFDM QPSK	1	1	23.11	23.02	23.12	24	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	DFT-s-OFDM QPSK	1	1	23.15	23.11	23.18	24	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	DFT-s-OFDM QPSK	1	1	23.12	23.14	23.16	24	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	DFT-s-OFDM QPSK	1	1	23.20	23.15	23.17	24	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	DFT-s-OFDM QPSK	1	1	23.12	23.09	23.12	24	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	DFT-s-OFDM QPSK	1	1	23.12	23.16	23.18	24	

WLAN Full Power

2.4GHz WLAN		Ant 8			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	15.10	15.50
		6	2437	14.65	15.50
		11	2462	14.74	15.50
	802.11g 6Mbps	1	2412	12.83	14.00
		6	2437	12.98	14.00
		11	2462	12.95	14.00
	802.11n-HT20 MCS0	1	2412	10.82	12.00
		6	2437	10.78	12.00
		11	2462	10.73	12.00
802.11n-HT40 MCS0	3	2422	10.69	12.00	
	6	2437	10.85	12.00	
	9	2452	10.69	12.00	
802.11ax-HE20 MCS0	1	2412	9.22	10.50	
	6	2437	8.92	10.50	
	11	2462	9.50	10.50	
802.11ax-HE40 MCS0	3	2422	9.11	10.50	
	6	2437	8.91	10.50	
	9	2452	8.94	10.50	

2.4GHz WLAN		Ant 9			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	15.07	15.50
		6	2437	15.00	15.50
		11	2462	15.08	15.50
	802.11g 6Mbps	1	2412	13.28	14.00
		6	2437	13.32	14.00
		11	2462	13.27	14.00
	802.11n-HT20 MCS0	1	2412	11.20	12.00
		6	2437	11.14	12.00
		11	2462	11.21	12.00
802.11n-HT40 MCS0	3	2422	11.33	12.00	
	6	2437	11.42	12.00	
	9	2452	11.39	12.00	
802.11ax-HE20 MCS0	1	2412	9.24	10.50	
	6	2437	9.29	10.50	
	11	2462	9.18	10.50	
802.11ax-HE40 MCS0	3	2422	8.91	10.50	
	6	2437	8.92	10.50	
	9	2452	8.94	10.50	

2.4GHz WLAN		Ant 8+9			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11b 1Mbps	1	2412	18.30	19.00
		6	2437	18.04	19.00
		11	2462	18.13	19.00
	802.11g 6Mbps	1	2412	16.32	17.00
		6	2437	16.41	17.00
		11	2462	16.37	17.00
	802.11n-HT20 MCS0	1	2412	14.26	15.00
		6	2437	14.21	15.00
		11	2462	14.22	15.00
802.11n-HT40 MCS0	3	2422	14.28	15.00	
	6	2437	14.40	15.00	
	9	2452	14.31	15.00	
802.11ax-HE20 MCS0	1	2412	12.55	13.00	
	6	2437	12.42	13.00	
	11	2462	12.43	13.00	
802.11ax-HE40 MCS0	3	2422	12.33	13.00	
	6	2437	12.23	13.00	
	9	2452	12.26	13.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			GFSK	DQPSK	8DPSK
BR / EDR	CH 00	2402	5.69	2.90	2.84
	CH 39	2441	6.16	3.47	3.40
	CH 78	2480	5.28	2.56	2.53
Tune-up Limit			7	4	4

Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	S2	S8
LE	CH 00	2402	8.71	8.90	8.49	8.49
	CH 19	2440	9.12	9.28	9.05	9.35
Tune-up Limit			10	10	10	10

5.2GHz WLAN		Ant 8			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	13.70	14.00
		40	5200	13.80	14.00
		44	5220	13.65	14.00
		48	5240	13.56	14.00
	802.11n-HT20 MCS0	36	5180	11.35	12.00
		40	5200	11.46	12.00
		44	5220	11.33	12.00
		48	5240	11.30	12.00
	802.11n-HT40 MCS0	38	5190	11.54	12.00
		46	5230	11.66	12.00
	802.11ac-VHT20 MCS0	36	5180	10.24	11.00
		40	5200	10.29	11.00
		44	5220	10.20	11.00
		48	5240	10.16	11.00
	802.11ac-VHT40 MCS0	38	5190	10.38	11.00
		46	5230	10.34	11.00
	802.11ac-VHT80 MCS0	42	5210	9.13	10.00
		36	5180	9.43	10.00
	802.11ax-HE20 MCS0	40	5200	9.34	10.00
44		5220	9.08	10.00	
48		5240	9.02	10.00	
802.11ax-HE40 MCS0	38	5190	9.40	10.00	
	46	5230	8.82	10.00	
802.11ax-HE80 MCS0	42	5210	9.02	10.00	

5.2GHz WLAN		Ant 9			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	12.85	13.00
		40	5200	12.94	13.00
		44	5220	12.63	13.00
		48	5240	12.49	13.00
	802.11n-HT20 MCS0	36	5180	10.75	11.00
		40	5200	10.79	11.00
		44	5220	10.33	11.00
		48	5240	9.94	11.00
	802.11n-HT40 MCS0	38	5190	10.94	11.00
		46	5230	10.09	11.00
	802.11ac-VHT20 MCS0	36	5180	9.29	10.00
		40	5200	9.42	10.00
		44	5220	9.11	10.00
		48	5240	8.98	10.00
	802.11ac-VHT40 MCS0	38	5190	9.52	10.00
		46	5230	9.37	10.00
	802.11ac-VHT80 MCS0	42	5210	8.61	9.50
		40	5200	8.39	9.50
	802.11ax-HE20 MCS0	44	5220	8.16	9.50
48		5240	7.99	9.50	
38		5190	8.23	9.50	
802.11ax-HE40 MCS0	46	5230	8.20	9.50	
	42	5210	8.38	9.50	

5.2GHz WLAN		Ant 8+9			
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	36	5180	16.38	16.50
		40	5200	16.47	16.50
		44	5220	16.32	16.50
		48	5240	16.14	16.50
	802.11n-HT20 MCS0	36	5180	14.24	15.00
		40	5200	14.32	15.00
		44	5220	14.02	15.00
		48	5240	13.86	15.00
	802.11n-HT40 MCS0	38	5190	14.46	15.00
		46	5230	14.16	15.00
	802.11ac-VHT20 MCS0	36	5180	12.97	14.00
		40	5200	13.05	14.00
		44	5220	12.85	14.00
		48	5240	12.79	14.00
	802.11ac-VHT40 MCS0	38	5190	13.18	14.00
		46	5230	13.09	14.00
	802.11ac-VHT80 MCS0	42	5210	12.08	13.00
		36	5180	12.10	13.00
	802.11ax-HE20 MCS0	40	5200	12.10	13.00
44		5220	12.00	13.00	
48		5240	11.75	13.00	
802.11ax-HE40 MCS0	38	5190	12.11	13.00	
	46	5230	11.73	13.00	
802.11ax-HE80 MCS0	42	5210	11.92	13.00	

5.3GHz WLAN		Ant 8			
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	13.58	14.00
		56	5280	13.55	14.00
		60	5300	13.50	14.00
		64	5320	13.52	14.00
	802.11n-HT20 MCS0	52	5260	11.28	12.00
		56	5280	11.35	12.00
		60	5300	11.37	12.00
		64	5320	11.39	12.00
	802.11n-HT40 MCS0	54	5270	11.33	12.00
		62	5310	11.53	12.00
	802.11ac-VHT20 MCS0	52	5260	10.22	11.00
		56	5280	10.26	11.00
		60	5300	10.28	11.00
		64	5320	10.24	11.00
802.11ac-VHT40 MCS0	54	5270	10.31	11.00	
	62	5310	10.35	11.00	
802.11ac-VHT80 MCS0	58	5290	9.10	10.00	
802.11ax-HE20 MCS0	52	5260	8.89	10.00	
	56	5280	9.00	10.00	
	60	5300	9.15	10.00	
	64	5320	9.23	10.00	
802.11ax-HE40 MCS0	54	5270	8.72	10.00	
	62	5310	9.21	10.00	
802.11ax-HE80 MCS0	58	5290	9.10	10.00	

5.3GHz WLAN		Ant 9			
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	52	5260	12.47	13.00
		56	5280	12.58	13.00
		60	5300	12.70	13.00
		64	5320	12.71	13.00
	802.11n-HT20 MCS0	52	5260	9.72	11.00
		56	5280	9.75	11.00
		60	5300	9.79	11.00
		64	5320	9.76	11.00
	802.11n-HT40 MCS0	54	5270	9.91	11.00
		62	5310	9.95	11.00
	802.11ac-VHT20 MCS0	52	5260	8.92	10.00
		56	5280	8.93	10.00
		60	5300	8.95	10.00
		64	5320	8.92	10.00
802.11ac-VHT40 MCS0	54	5270	9.06	10.00	
	62	5310	8.97	10.00	
802.11ac-VHT80 MCS0	58	5290	8.33	9.50	
802.11ax-HE20 MCS0	52	5260	7.95	9.50	
	56	5280	7.97	9.50	
	60	5300	8.01	9.50	
	64	5320	8.02	9.50	
802.11ax-HE40 MCS0	54	5270	7.91	9.50	
	62	5310	7.96	9.50	
802.11ax-HE80 MCS0	58	5290	8.19	9.50	

5.3GHz WLAN		Ant 8+9			
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	56	5280	16.18	16.50
		60	5300	16.20	16.50
		64	5320	16.22	16.50
	802.11n-HT20 MCS0	52	5260	13.75	15.00
		56	5280	13.78	15.00
		60	5300	13.84	15.00
		64	5320	13.84	15.00
	802.11n-HT40 MCS0	54	5270	13.89	15.00
		62	5310	14.02	15.00
	802.11ac-VHT20 MCS0	52	5260	12.80	14.00
		56	5280	12.83	14.00
		60	5300	12.85	14.00
		64	5320	12.81	14.00
	802.11ac-VHT40 MCS0	54	5270	12.94	14.00
802.11ac-VHT80 MCS0	58	5290	11.94	13.00	
802.11ax-HE20 MCS0	52	5260	11.65	13.00	
	56	5280	11.71	13.00	
	60	5300	11.83	13.00	
	64	5320	11.88	13.00	
802.11ax-HE40 MCS0	54	5270	11.54	13.00	
	62	5310	11.84	13.00	
802.11ax-HE80 MCS0	58	5290	11.88	13.00	

5.6GHz WLAN		Ant 8			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.6GHz WLAN	802.11a 6Mbps	100	5500	13.22	13.50
		116	5580	13.09	13.50
		124	5620	13.28	14.00
		132	5660	13.56	14.50
		140	5700	13.97	14.50
		144	5720	13.89	14.50
	802.11n-HT20 MCS0	100	5500	10.88	12.00
		116	5580	10.64	12.00
		124	5620	11.02	12.00
		132	5660	11.15	12.00
		140	5700	11.69	12.00
	802.11n-HT40 MCS0	144	5720	11.71	12.00
		102	5510	10.91	12.00
		110	5550	10.89	12.00
		126	5630	11.10	12.00
	802.11ac-VHT20 MCS0	134	5670	11.44	12.00
		142	5710	11.92	12.00
		100	5500	9.94	10.50
		116	5580	9.76	10.50
	802.11ac-VHT40 MCS0	124	5620	10.08	10.50
		132	5660	10.19	10.50
		140	5700	10.24	10.50
		144	5720	9.92	10.50
	802.11ac-VHT80 MCS0	102	5510	9.90	10.50
		110	5550	9.85	10.50
		126	5630	9.80	10.50
		134	5670	9.75	10.50
	802.11ax-HE20 MCS0	142	5710	10.22	10.50
		106	5530	8.88	10.00
		122	5610	8.91	10.00
		138	5690	8.93	10.00
	802.11ax-HE40 MCS0	100	5500	8.34	10.00
		116	5580	8.38	10.00
		124	5620	8.50	10.00
		132	5660	8.80	10.00
		140	5700	9.16	10.00
		144	5720	9.11	10.00
	802.11ax-HE80 MCS0	102	5510	8.14	10.00
		110	5550	8.10	10.00
		126	5630	8.30	10.00
		134	5670	8.54	10.00
	802.11ax-HE80 MCS0	142	5710	8.99	10.00
		106	5530	8.56	10.00
		122	5610	8.44	10.00
		138	5690	8.80	10.00

5.6GHz WLAN		Ant 9			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
5.6GHz WLAN	802.11a 6Mbps	100	5500	11.88	12.50
		116	5580	12.08	12.50
		124	5620	11.85	12.50
		132	5660	11.81	12.50
		140	5700	11.85	12.50
		144	5720	11.78	12.50
	802.11n-HT20 MCS0	100	5500	9.81	10.00
		116	5580	9.84	10.00
		124	5620	9.55	10.00
		132	5660	9.39	10.00
		140	5700	9.35	10.00
	802.11n-HT40 MCS0	144	5720	9.27	10.00
		102	5510	9.04	10.00
		110	5550	8.88	10.00
		126	5630	9.87	10.00
	802.11ac-VHT20 MCS0	134	5670	10.55	11.00
		142	5710	9.56	10.00
		100	5500	8.03	9.00
		116	5580	8.32	9.00
	802.11ac-VHT40 MCS0	124	5620	7.99	9.00
		132	5660	7.83	9.00
		140	5700	7.70	9.00
		144	5720	7.62	9.00
	802.11ac-VHT80 MCS0	102	5510	8.17	9.00
		110	5550	8.10	9.00
		126	5630	8.55	9.00
		134	5670	8.78	9.00
	802.11ax-HE20 MCS0	142	5710	7.81	9.00
		106	5530	7.48	8.00
		122	5610	7.71	8.00
		138	5690	7.17	8.00
	802.11ax-HE40 MCS0	100	5500	7.07	8.00
		116	5580	7.33	8.00
		124	5620	6.99	8.00
		132	5660	6.85	8.00
		140	5700	6.77	8.00
		144	5720	6.63	8.00
	802.11ax-HE80 MCS0	102	5510	6.95	8.00
		110	5550	7.61	8.00
		126	5630	7.00	8.00
		134	5670	7.32	8.00
	802.11ax-HE80 MCS0	142	5710	6.73	8.00
		106	5530	7.23	8.00
		122	5610	7.57	8.00
		138	5690	7.11	8.00

5.6GHz WLAN	Ant 8+9				
5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	100	5500	15.69	16.50
		116	5580	15.70	16.50
		124	5620	15.95	16.50
		132	5660	15.99	16.50
		140	5700	16.12	16.50
		144	5720	16.05	16.50
	802.11n-HT20 MCS0	100	5500	13.56	14.00
		116	5580	13.44	14.00
		124	5620	13.47	14.00
		132	5660	13.66	14.00
		140	5700	13.86	14.00
		144	5720	13.85	14.00
	802.11n-HT40 MCS0	102	5510	13.29	14.50
		110	5550	13.21	14.50
		126	5630	13.45	14.50
		134	5670	14.23	14.50
		142	5710	14.11	14.50
	802.11ac-VHT20 MCS0	100	5500	12.27	13.00
		116	5580	12.28	13.00
		124	5620	12.30	13.00
		132	5660	12.19	13.00
		140	5700	12.34	13.00
		144	5720	12.11	13.00
	802.11ac-VHT40 MCS0	102	5510	12.33	13.00
		110	5550	12.28	13.00
		126	5630	12.30	13.00
		134	5670	12.50	13.00
142		5710	12.39	13.00	
802.11ac-VHT80 MCS0	106	5530	11.44	12.00	
	122	5610	11.56	12.00	
	138	5690	11.35	12.00	
802.11ax-HE20 MCS0	100	5500	10.96	12.00	
	116	5580	11.10	12.00	
	124	5620	11.15	12.00	
	132	5660	11.19	12.00	
	140	5700	11.34	12.00	
	144	5720	11.26	12.00	
802.11ax-HE40 MCS0	102	5510	10.84	12.00	
	110	5550	10.77	12.00	
	126	5630	11.00	12.00	
	134	5670	11.31	12.00	
	142	5710	11.22	12.00	
802.11ax-HE80 MCS0	106	5530	11.15	12.00	
	122	5610	11.24	12.00	
	138	5690	11.36	12.00	

5.8GHz WLAN		Ant 8			
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	13.34	14.00
		157	5785	13.61	14.00
		165	5825	13.31	14.00
	802.11n-HT20 MCS0	149	5745	11.67	12.00
		157	5785	11.91	12.00
		165	5825	11.63	12.00
	802.11n-HT40 MCS0	151	5755	11.91	12.00
		159	5795	11.55	12.00
	802.11ac-VHT20 MCS0	149	5745	10.38	11.00
		157	5785	10.53	11.00
		165	5825	10.49	11.00
	802.11ac-VHT40 MCS0	151	5755	10.36	11.00
		159	5795	10.04	11.00
	802.11ac-VHT80 MCS0	155	5775	8.89	10.00
149		5745	9.10	10.00	
802.11ax-HE20 MCS0	157	5785	9.09	10.00	
	165	5825	9.31	10.00	
	151	5755	8.88	10.00	
802.11ax-HE40 MCS0	159	5795	9.23	10.00	
	155	5775	8.91	10.00	

5.8GHz WLAN		Ant 9			
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	11.06	12.50
		157	5785	11.77	12.50
		165	5825	12.00	12.50
	802.11n-HT20 MCS0	149	5745	9.15	10.50
		157	5785	9.94	10.50
		165	5825	10.17	10.50
	802.11n-HT40 MCS0	151	5755	9.94	10.50
		159	5795	10.47	10.50
	802.11ac-VHT20 MCS0	149	5745	7.97	9.50
		157	5785	8.78	9.50
		165	5825	9.03	9.50
	802.11ac-VHT40 MCS0	151	5755	8.26	9.00
		159	5795	8.66	9.00
	802.11ac-VHT80 MCS0	155	5775	7.15	8.00
149		5745	6.51	8.00	
802.11ax-HE20 MCS0	157	5785	7.11	8.00	
	165	5825	7.41	8.00	
	151	5755	7.11	9.00	
802.11ax-HE40 MCS0	159	5795	8.02	9.00	
	155	5775	7.22	8.00	

5.8GHz WLAN		Ant 8+9			
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	802.11a 6Mbps	149	5745	15.56	16.50
		157	5785	16.00	16.50
		165	5825	15.91	16.50
	802.11n-HT20 MCS0	149	5745	13.81	14.50
		157	5785	14.26	14.50
		165	5825	14.18	14.50
	802.11n-HT40 MCS0	151	5755	14.25	14.50
		159	5795	14.25	14.50
	802.11ac-VHT20 MCS0	149	5745	12.55	13.50
		157	5785	12.96	13.50
		165	5825	13.03	13.50
	802.11ac-VHT40 MCS0	151	5755	12.65	13.50
		159	5795	12.61	13.50
	802.11ac-VHT80 MCS0	155	5775	11.32	12.00
149		5745	11.21	12.00	
802.11ax-HE20 MCS0	157	5785	11.42	12.00	
	165	5825	11.67	12.00	
	151	5755	11.29	12.00	
802.11ax-HE40 MCS0	159	5795	11.88	12.00	
	155	5775	11.36	12.00	

LTE Band 66 (Ant1)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (MHz)	
		Channel	Frequency (MHz)	132072	132322	132572			
20M	QPSK	1	0	21.30	21.42	21.50	0	22	
		1	50	21.47	21.67	21.72	0	22	
		1	99	21.67	21.64	21.78	0	22	
		50	0	20.66	20.78	20.91	1	21	
		50	25	20.64	20.78	20.86	1	21	
		50	50	20.68	20.83	20.94	1	21	
		100	0	20.66	20.73	20.82	1	21	
		1	0	20.68	21.13	21.24	1	21	
		1	50	20.82	20.90	21.03	1	21	
		1	99	21.00	21.02	21.21	1	21	
		50	0	19.70	19.82	19.93	2	20	
		50	25	19.68	19.73	19.86	2	20	
	50	50	19.70	19.73	19.87	2	20		
	100	0	19.67	19.73	19.81	2	20		
	16QAM	1	0	21.02	21.09	21.15	2	20	
		1	50	20.75	20.81	20.94	2	20	
		1	99	20.96	20.99	21.15	2	20	
		50	0	19.74	19.85	19.92	3	19	
		50	25	19.68	19.70	19.89	3	19	
		50	50	19.64	19.76	19.87	3	19	
		100	0	19.72	19.74	19.93	3	19	
		64QAM	1	0	21.24	21.60	21.44	0	22
			1	37	21.40	21.52	21.70	0	22
			1	74	21.51	21.67	21.73	0	22
36			0	20.59	20.71	20.89	1	21	
36			19	20.56	20.76	20.80	1	21	
36	39		20.60	20.82	20.92	1	21		
75	0		20.62	20.88	20.74	1	21		
1	0		20.50	21.12	21.22	1	21		
1	37		20.77	20.85	20.99	1	21		
1	74		20.98	20.94	21.20	1	21		
36	0		19.62	19.78	19.88	2	20		
36	19		19.65	19.67	19.87	2	20		
36	39	19.68	19.66	19.82	2	20			
75	0	19.61	19.65	19.89	2	20			
1	0	21.01	21.07	21.07	2	20			
1	37	20.70	20.72	20.88	2	20			
1	74	20.95	20.93	21.13	2	20			
36	0	19.69	19.83	19.85	3	19			
36	19	19.66	19.62	19.88	3	19			
36	39	19.66	19.72	19.82	3	19			
75	0	19.70	19.66	19.92	3	19			
10M	QPSK	1	0	21.27	21.36	21.48	0	22	
		1	24	21.45	21.49	21.71	0	22	
		1	49	21.49	21.60	21.73	0	22	
		25	0	20.63	20.70	20.89	1	21	
		25	12	20.62	20.71	20.81	1	21	
		25	25	20.62	20.75	20.92	1	21	
		50	0	20.65	20.71	20.74	1	21	
		1	0	20.91	21.05	21.18	1	21	
		1	24	20.79	20.84	21.01	1	21	
		1	49	20.98	20.95	21.16	1	21	
		25	0	19.64	19.74	19.91	2	20	
		25	12	19.66	19.65	19.88	2	20	
	25	25	19.62	19.69	19.82	2	20		
	50	0	19.65	19.65	19.90	2	20		
	1	0	20.94	21.05	21.10	2	20		
	1	24	20.72	20.74	20.92	2	20		
	1	49	20.98	20.82	21.10	2	20		
	25	0	19.68	19.77	19.90	3	19		
	25	12	19.67	19.68	19.81	3	19		
	25	25	19.59	19.68	19.81	3	19		
	50	0	19.71	19.68	19.91	3	19		
	16QAM	1	0	21.25	21.35	21.45	0	22	
		1	12	21.45	21.49	21.70	0	22	
		1	24	21.62	21.66	21.77	0	22	
12		0	20.62	20.71	20.86	1	21		
12		6	20.56	20.77	20.81	1	21		
12		13	20.64	20.78	20.93	1	21		
25		0	20.60	20.71	20.77	1	21		
1		0	20.91	21.08	21.22	1	21		
1		12	20.74	20.88	20.98	1	21		
1		24	20.98	20.94	21.19	1	21		
12		0	19.62	19.76	19.85	2	20		
12		6	19.62	19.71	19.83	2	20		
12	13	19.63	19.68	19.85	2	20			
25	0	19.63	19.66	19.86	2	20			
1	0	20.95	21.04	21.13	2	20			
1	12	20.67	20.75	20.88	2	20			
1	24	20.98	20.98	21.13	2	20			
12	0	19.70	19.80	19.84	3	19			
12	6	19.60	19.69	19.87	3	19			
12	13	19.60	19.71	19.79	3	19			
25	0	19.66	19.72	19.90	3	19			
64QAM	1	0	21.01	21.07	21.07	2	20		
	1	37	20.70	20.72	20.88	2	20		
	1	74	20.95	20.93	21.13	2	20		
	36	0	19.69	19.83	19.85	3	19		
	36	19	19.66	19.62	19.88	3	19		
	36	39	19.66	19.72	19.82	3	19		
	75	0	19.70	19.66	19.92	3	19		
	QPSK	1	0	21.24	21.37	21.49	0	22	
		1	7	21.46	21.55	21.67	0	22	
		1	14	21.49	21.67	21.76	0	22	
		8	0	20.65	20.72	20.86	1	21	
		8	3	20.61	20.77	20.80	1	21	
8		7	20.64	20.78	20.92	1	21		
15		0	20.60	20.71	20.79	1	21		
1		0	20.96	21.05	21.23	1	21		
1		7	20.74	20.86	20.98	1	21		
1		14	20.97	20.96	21.19	1	21		
8		0	19.69	19.77	19.85	2	20		
8		3	19.62	19.70	19.85	2	20		
8	7	19.68	19.66	19.82	2	20			
15	0	19.61	19.65	19.89	2	20			
1	0	21.01	21.07	21.07	2	20			
1	7	20.68	20.72	20.88	2	20			
1	14	20.94	20.98	21.11	2	20			
8	0	19.72	19.77	19.91	3	19			
8	3	19.68	19.62	19.88	3	19			
8	7	19.62	19.75	19.83	3	19			
15	0	19.69	19.73	19.87	3	19			
16QAM	1	0	21.22	21.38	21.45	0	22		
	1	2	21.44	21.51	21.70	0	22		
	1	5	21.55	21.87	21.73	0	22		
	3	0	21.10	21.18	21.39	0	22		
	3	1	21.13	21.28	21.28	0	22		
	3	3	21.13	21.25	21.38	0	22		
	6	0	20.65	20.67	20.80	1	21		
	1	0	20.93	21.06	21.19	1	21		
	1	2	20.80	20.82	21.01	1	21		
	1	5	20.95	20.94	21.20	1	21		
	3	0	20.66	20.77	20.88	1	21		
	3	1	20.60	20.72	20.84	1	21		
3	3	20.66	20.68	20.86	1	21			
6	0	19.61	19.71	19.86	2	20			
1	0	20.96	21.04	21.13	2	20			
1	2	20.67	20.78	20.89	2	20			
1	5	20.94	20.91	21.13	2	20			
3	0	20.66	20.79	20.84	2	20			
3	1	20.62	20.68	20.83	2	20			
3	3	20.59	20.68	20.86	2	20			
6	0	19.68	19.69	19.88	3	19			
64QAM	1	0	21.24	21.60	21.44	0	22		
	1	37	21.40	21.52	21.70	0	22		
	1	74	21.51	21.67	21.73	0	22		
	36	0	20.59	20.71	20.89	1	21		
	36	19	20.56	20.76	20.80	1	21		
	36	39	20.60	20.82	20.92	1	21		
	75	0	20.62	20.88	20.74	1	21		
	1	0	20.50	21.12	21.22	1	21		
	1	37	20.77	20.85	20.99	1	21		
	1	74	20.98	20.94	21.20	1	21		
	36	0	19.62	19.78	19.88	2	20		
	36	19	19.65	19.67	19.87	2	20		
36	39	19.68	19.66	19.82	2	20			
75	0	19.61	19.65	19.89	2	20			
1	0	21.01	21.07	21.07	2	20			
1	37	20.70	20.72	20.88	2	20			
1	74	20.95	20.93	21.13	2	20			
36	0	19.69	19.83	19.85	3	19			
36	19	19.66	19.62	19.88	3	19			
36	39	19.66	19.72	19.82	3	19			
75	0	19.70	19.66	19.92	3	19			

UL CA

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Tune up limit (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	0	0	1	20.02	21.00
		16QAM	1	99	0	0	1	19.25	20.00
		64QAM	1	99	0	0	1	18.07	19.00
21100	21298	QPSK	1	99	0	0	1	19.99	21.00
		16QAM	1	99	0	0	1	19.14	20.00
		64QAM	1	99	0	0	1	18.20	19.00
21350	21152	QPSK	1	99	0	0	1	19.91	21.00
		16QAM	1	99	0	0	1	19.14	20.00
		64QAM	1	99	0	0	1	18.00	19.00

CA_38C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	1	21.26	22.50
		16QAM	1	0	0	0	1	20.57	21.50
		64QAM	1	0	0	0	1	19.22	20.50
37901	38099	QPSK	1	0	0	0	1	21.14	22.50
		16QAM	1	0	0	0	1	20.27	21.50
		64QAM	1	0	0	0	1	19.01	20.50
38150	37952	QPSK	1	0	0	0	1	20.93	22.50
		16QAM	1	0	0	0	1	20.14	21.50
		64QAM	1	0	0	0	1	19.16	20.50

CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	0	0	0	1	21.13	22.50
		16QAM	1	0	0	0	1	20.32	21.50
		64QAM	1	0	0	0	1	18.83	20.50
40185	40383	QPSK	1	0	0	0	1	21.03	22.50
		16QAM	1	0	0	0	1	20.19	21.50
		64QAM	1	0	0	0	1	18.71	20.50
40620	40818	QPSK	1	0	0	0	1	20.96	22.50
		16QAM	1	0	0	0	1	20.21	21.50
		64QAM	1	0	0	0	1	18.59	20.50
41055	41253	QPSK	1	0	0	0	1	20.85	22.50
		16QAM	1	0	0	0	1	20.09	21.50
		64QAM	1	0	0	0	1	18.56	20.50
41490	41292	QPSK	1	0	0	0	1	20.48	22.50
		16QAM	1	0	0	0	1	19.60	21.50
		64QAM	1	0	0	0	1	18.18	20.50

CA_42C Part27									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
42190	42388	QPSK	1	0	0	0	1	20.43	22.00
		16QAM	1	0	0	0	1	19.65	21.00
		64QAM	1	0	0	0	1	18.19	20.00
42590	42392	QPSK	1	0	0	0	1	20.55	22.00
		16QAM	1	0	0	0	1	19.70	21.00
		64QAM	1	0	0	0	1	18.01	20.00
42990	42792	QPSK	1	0	0	0	1	20.43	22.00
		16QAM	1	0	0	0	1	19.68	21.00
		64QAM	1	0	0	0	1	18.11	20.00

CA_48C For SAR									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	1	0	0	0	1	20.74	22.00
		16QAM	1	0	0	0	1	19.96	21.00
		64QAM	1	0	0	0	1	18.44	20.00
55830	56028	QPSK	1	0	0	0	1	20.89	22.00
		16QAM	1	0	0	0	1	20.11	21.00
		64QAM	1	0	0	0	1	18.68	20.00
56150	56348	QPSK	1	0	0	0	1	20.99	22.00
		16QAM	1	0	0	0	1	20.23	21.00
		64QAM	1	0	0	0	1	18.72	20.00
56640	56442	QPSK	1	0	0	0	1	20.84	22.00
		16QAM	1	0	0	0	1	20.11	21.00
		64QAM	1	0	0	0	1	18.66	20.00

DL CA

Configure		CA List	PCC						SCC				Power		
			LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
			Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	Contiguous	CA_7C	Band 7	20M	2510	20850	QPSK	1	99	Band 7	20M	2649.8	3048	19.96	20.08
			Band 7	20M	2535	21100	QPSK	1	99	Band 7	20M	2674.8	3298	19.90	20.01
			Band 7	20M	2560	21350	QPSK	1	99	Band 7	20M	2660.2	3152	19.92	20.04

n2 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	37200	37600	
20M	CP-OFDM QPSK	1	1	1860	1880	1900	20
				1972	1976	1970	
BW	MCS Index	1	1	371500	376000	380500	Max. Tune-up
				1857.5	1880	1902.5	
15M	CP-OFDM QPSK	1	1	19.81	19.72	19.67	20
				1855	1880	1905	
BW	MCS Index	1	1	371000	376000	381000	Max. Tune-up
				1855	1880	1905	
10M	CP-OFDM QPSK	1	1	19.79	19.80	19.62	20
				1855	1880	1907.5	
BW	MCS Index	1	1	370500	376000	381500	Max. Tune-up
				1852.5	1880	1907.5	
5M	CP-OFDM QPSK	1	1	19.75	19.73	19.72	20
				1852.5	1880	1907.5	

n2 (SCS 15 kHz)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				Channel	372000	376000		380000	
20M	DFT-s-OFDM P/2 BPSK	1	1	1860	1880	1900	21.5		
				21.10	21.15	21.05			
				53	21.05	21.04		21.05	
				104	21.08	21.04		20.95	
				50	20.59	20.65		20.66	
				50	28	21.15		21.09	21.04
				50	56	20.59		20.65	20.52
				100	0	20.62		20.71	20.60
				1	1	21.20		21.25	21.18
				1	53	21.15		21.16	21.12
				1	104	21.03		21.16	21.06
				50	0	20.15		20.18	20.09
				50	28	21.15		21.16	21.12
				50	56	20.09		20.19	20.09
				100	0	20.13		20.17	20.08
BW	MCS Index	1	1	371500	376000	380500	Max. Tune-up		
				1857.5	1880	1902.5			
				1855	1880	1905			
15M	DFT-s-OFDM QPSK	1	1	21.20	21.22	21.17	21.5		
				1855	1880	1905			
BW	MCS Index	1	1	371000	376000	381000	Max. Tune-up		
				1855	1880	1905			
10M	DFT-s-OFDM QPSK	1	1	21.23	21.20	21.18	21.5		
				1852.5	1880	1907.5			
BW	MCS Index	1	1	370500	376000	381500	Max. Tune-up		
				1852.5	1880	1907.5			
5M	DFT-s-OFDM QPSK	1	1	21.17	21.24	21.13	21.5		
				1852.5	1880	1907.5			

n7 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	502000	507000	
20M	CP-OFDM QPSK	1	1	2510	2535	2550	19.5
				19.15	19.19	19.06	
BW	MCS Index	1	1	501500	507000	512500	Max. Tune-up
				2507.5	2535	2562.5	
15M	CP-OFDM QPSK	1	1	19.08	19.21	19.11	19.5
				2505	2535	2565	
BW	MCS Index	1	1	501000	507000	513000	Max. Tune-up
				2505	2535	2565	
10M	CP-OFDM QPSK	1	1	19.11	19.17	19.09	19.5
				2505	2535	2567.5	
BW	MCS Index	1	1	500500	507000	513500	Max. Tune-up
				2502.5	2535	2567.5	
5M	CP-OFDM QPSK	1	1	19.17	19.15	19.12	19.5
				2502.5	2535	2567.5	

n7 (SCS 15 kHz)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				Channel	502000	507000		512000	
20M	DFT-s-OFDM P/2 BPSK	1	1	2510	2535	2550	21		
				20.72	20.75	20.55			
				53	20.63	20.59		20.47	
				104	20.64	20.66		20.49	
				50	0	20.19		20.15	20.04
				50	28	20.68		20.67	20.50
				50	56	20.08		20.18	19.89
				100	0	20.23		20.20	20.07
				1	1	20.74		20.83	20.61
				1	53	20.63		20.64	20.52
				1	104	20.55		20.63	20.39
				50	0	19.74		19.74	19.67
				50	28	20.73		20.74	20.52
				50	56	19.60		19.70	19.48
				100	0	19.74		19.78	19.58
BW	MCS Index	1	1	501500	507000	512500	Max. Tune-up		
				2507.5	2535	2562.5			
				2505	2535	2565			
15M	DFT-s-OFDM QPSK	1	1	20.75	20.81	20.69	21		
				2505	2535	2565			
BW	MCS Index	1	1	501000	507000	513000	Max. Tune-up		
				2505	2535	2565			
10M	DFT-s-OFDM QPSK	1	1	20.71	20.80	20.65	21		
				2502.5	2535	2567.5			
BW	MCS Index	1	1	500500	507000	513500	Max. Tune-up		
				2502.5	2535	2567.5			
5M	DFT-s-OFDM QPSK	1	1	20.73	20.78	20.66	21		
				2502.5	2535	2567.5			

n25 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
				Channel	374000	376500	
40M	CP-OFDM QPSK	1	1	1870	1882.5	1895	20
				19.90	19.96	19.88	
BW	MCS Index	1	1	373000	376500	380000	Max. Tune-up
				1865	1882.5	1890	
30M	CP-OFDM QPSK	1	1	19.85	19.92	19.85	20
				1862.5	1882.5	1902.5	
BW	MCS Index	1	1	372500	376500	380500	Max. Tune-up
				1862.5	1882.5	1902.5	
25M	CP-OFDM QPSK	1	1	19.80	19.95	19.79	20
				1860	1882.5	1905	
BW	MCS Index	1	1	372000	376500	381000	Max. Tune-up
				1860	1882.5	1905	
20M	CP-OFDM QPSK	1	1	19.83	19.98	19.90	20
				1857.5	1882.5	1907.5	
BW	MCS Index	1	1	371500	376500	381500	Max. Tune-up
				1857.5	1882.5	1907.5	
15M	CP-OFDM QPSK	1	1	19.87	19.90	19.82	20
				1855	1882.5	1910	
BW	MCS Index	1	1	371000	376500	382000	Max. Tune-up
				1855	1882.5	1910	
10M	CP-OFDM QPSK	1	1	19.81	19.73	19.85	20
				1852.5	1882.5	1912.5	
BW	MCS Index	1	1	370500	376500	382500	Max. Tune-up
				1852.5	1882.5	1912.5	
5M	CP-OFDM QPSK	1	1	19.78	19.88	19.83	20
				1852.5	1882.5	1912.5	

n25 (SCS 15 kHz)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
				Channel	374000	376500		379000	
40M	DFT-s-OFDM P/2 BPSK	1	1	1870	1882.5	1895	21.5		
				21.09	21.13	21.12			
				108	21.23	21.26		21.13	
				214	21.18	21.16		21.11	
				108	0	20.68		20.64	20.74
				108	54	21.18		21.11	21.10
				108	108	20.67		20.71	20.75
				216	0	20.69		20.66	20.73
				1	1	21.27		21.30	21.25
				1	108	21.10		21.18	21.20
				1	214	21.25		21.22	21.21
				108	0	20.21		20.19	20.23
				108	54	21.21		21.25	21.19
				108	108	20.22		20.22	20.23
				216	0	20.23		20.25	20.25
BW	MCS Index	1	1	373000	376500	380000	Max. Tune-up		
				1865	1882.5	1900			
				1865	1882.5	1905			
30M	DFT-s-OFDM QPSK	1	1	21.20	21.28	21.22	21.5		
				1862.5	1882.5	1902.5			
BW	MCS Index	1	1	372500	376500	380500	Max. Tune-up		
				1862.5	1882.5	1902.5			
25M	DFT-s-OFDM QPSK	1	1	21.25	21.22	21.17	21.5		
				1860	1882.5	1905			
BW	MCS Index	1	1	372000	376500	381000	Max. Tune-up		
				1860	1882.5	1905			
20M	DFT-s-OFDM QPSK	1	1	21.21	21.29	21.21	21.5		
				1857.5	1882.5	1907.5			
BW	MCS Index	1	1	371500	376500	381500	Max. Tune-up		
				1857.5	1882.5	1907.5			
15M	DFT-s-OFDM QPSK	1	1	21.26	21.18	21.15	21.5		
				1855	1882.5	1907.5			
BW	MCS Index	1	1	371000	376500	382000	Max. Tune-up		
				1855	1882.5	1910			
10M	DFT-s-OFDM QPSK	1	1	21.22	21.21	21.19	21.5		
				1852.5	1882.5	1912.5			
BW	MCS Index	1	1	370500	376500	382500	Max. Tune-up		
				1852.5	1882.5	1912.5			
5M	DFT-s-OFDM QPSK	1	1	21.19	21.15	21.10	21.5		
				1852.5	1882.5	1912.5			

n30 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)
		Channel		Mid			
		Frequency (MHz)		2310			
10M	CP-OFDM QPSK	1	1		20.85		21
BW	MCS Index	Channel		461500	462000	462500	Max. Tune-up
		Frequency (MHz)		2307.5	2310	2312.5	
5M	CP-OFDM QPSK	1	1	20.73	20.75	20.81	21

n30 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)
		Channel		Mid			
		Frequency (MHz)		2310			
10M	DFT-s-OFDM Pi/2 BPSK	1	1		22.33		22.5
		1	26		22.34		22.5
		1	50		22.26		22.5
		25	0		21.79		22.5
		25	14		22.32		22.5
		25	27		21.80		22.5
	50	0		21.87		22	
	DFT-s-OFDM QPSK	1	1		22.37		22.5
		1	26		22.32		22.5
		1	50		22.31		22.5
		25	0		21.31		22.5
		25	14		22.28		22.5
		25	27		21.36		22.5
	50	0		21.38		22	
	DFT-s-OFDM 16QAM	1	1		21.39		21.5
	DFT-s-OFDM 64QAM	1	1		19.98		20.5
	DFT-s-OFDM 256QAM	1	1		17.98		18.5
	BW	MCS Index	Channel		461500	462000	462500
Frequency (MHz)			2307.5	2310	2312.5		
5M	DFT-s-OFDM QPSK	1	1	22.29	22.32	22.21	22.5

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	CP-OFDM QPSK	1	1	20.35	20.28	20.32	20.5
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		Frequency (MHz)		1725	1745	1765	
30M	CP-OFDM QPSK	1	1	20.36	20.31	20.30	20.5
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	CP-OFDM QPSK	1	1	20.32	20.27	20.32	20.5
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	CP-OFDM QPSK	1	1	20.33	20.23	20.28	20.5
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	CP-OFDM QPSK	1	1	20.29	20.29	20.25	20.5
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	CP-OFDM QPSK	1	1	20.36	20.25	20.27	20.5

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	DFT-s-OFDM Pi/2 BPSK	1	1	21.74	21.64	21.66	22
		1	108	21.68	21.61	21.74	22
		1	214	21.81	21.73	21.67	22
		108	0	21.09	21.03	21.13	22
		108	54	21.80	21.68	21.76	22
		108	108	21.33	21.24	21.24	22
	216	0	21.26	21.17	21.29	21.5	
	DFT-s-OFDM QPSK	1	1	21.83	21.73	21.82	22
		1	108	21.81	21.73	21.82	22
		1	214	21.69	21.71	21.80	22
		108	0	20.67	20.62	20.68	22
		108	54	21.81	21.70	21.74	22
		108	108	20.83	20.75	20.79	22
	216	0	20.83	20.70	20.81	21.5	
	DFT-s-OFDM 16QAM	1	1	20.85	20.75	20.82	21
	DFT-s-OFDM 64QAM	1	1	19.44	19.31	19.29	20
	DFT-s-OFDM 256QAM	1	1	17.39	17.33	17.30	18
	BW	MCS Index	Channel		345000	349000	353000
Frequency (MHz)			1725	1745	1765		
30M	DFT-s-OFDM QPSK	1	1	21.75	21.75	21.78	22
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	DFT-s-OFDM QPSK	1	1	21.73	21.69	21.70	22
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	DFT-s-OFDM QPSK	1	1	21.79	21.66	21.72	22
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	DFT-s-OFDM QPSK	1	1	21.74	21.73	21.67	22
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	DFT-s-OFDM QPSK	1	1	21.81	21.70	21.67	22

WWAN Reduce Power 2

		LTE Band 2 (Ant1)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		1850	1860	1870	30PPH MPR	Max. Twp-up	1880	1890	1900	
		Frequency (MHz)	(MHz)	1855	1865	1875	MPR	Time-up	1885	1895	1905	Max.
10M	OPK	1	0	1756	1764	1772	0	18.5				
		1	50	1751	1735	1748	0	18.5				
		1	100	1729	1732	1729	0	18.5				
	16QAM	36	39	1647	1629	1629	1	17.5				
		50	25	1668	1654	1657	1	17.5				
		50	50	1653	1645	1656	1	17.5				
		100	0	1666	1658	1668	1	17.5				
		1	0	1666	1660	1663	1	17.5				
		1	50	1663	1653	1660	1	17.5				
	64QAM	99	99	1666	1652	1655	1	17.5				
		50	0	1656	1648	1657	2	16.5				
		50	25	1664	1648	1651	2	16.5				
50		50	1648	1652	1649	2	16.5					
100		0	1665	1649	1652	2	16.5					
1		0	1661	1656	1662	2	16.5					
10M	OPK	1	0	1856	1864	1872	0	18.5				
		1	74	1823	1828	1824	0	18.5				
		36	19	1866	1847	1852	1	17.5				
	16QAM	36	39	1847	1837	1834	1	17.5				
		75	0	1864	1857	1838	1	17.5				
		1	0	1859	1852	1857	1	17.5				
		1	37	1860	1847	1858	1	17.5				
		1	74	1823	1828	1824	1	17.5				
		36	0	1843	1841	1841	2	16.5				
	64QAM	36	19	1854	1856	1850	3	15.5				
		36	39	1845	1838	1846	3	15.5				
		75	0	1853	1846	1847	3	15.5				
1		0	1856	1854	1855	2	16.5					
1		37	1854	1847	1837	2	16.5					
1		74	1823	1828	1824	2	16.5					

		LTE Band 4 (Ant1)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		1850	1860	1870	30PPH MPR	Max. Twp-up	1880	1890	1900	
		Frequency (MHz)	(MHz)	1855	1865	1875	MPR	Time-up	1885	1895	1905	Max.
10M	OPK	1	0	1726	1734	1742	0	18.5				
		1	50	1735	1742	1738	0	18.5				
		1	100	1722	1729	1730	0	18.5				
	16QAM	36	39	1644	1640	1639	1	17.5				
		50	25	1636	1643	1675	1	17.5				
		50	50	1645	1644	1668	1	17.5				
		100	0	1646	1640	1669	1	17.5				
		1	0	1666	1669	1697	1	17.5				
		1	50	1653	1666	1686	1	17.5				
	64QAM	99	99	1656	1648	1685	1	17.5				
		50	0	1646	1648	1666	2	16.5				
		50	25	1648	1648	1678	2	16.5				
50		50	1645	1642	1658	2	16.5					
100		0	1641	1652	1672	2	16.5					
1		0	1662	1658	1683	2	16.5					

		LTE Band 7 (Ant1)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		2080	2100	2120	30PPH MPR	Max. Twp-up	2100	2130	2160	
		Frequency (MHz)	(MHz)	2085	2095	2115	MPR	Time-up	2115	2145	2175	Max.
10M	OPK	1	0	1656	1650	1637	0	17.5				
		1	50	1641	1635	1638	0	17.5				
		1	100	1658	1647	1650	0	17.5				
	16QAM	36	39	1587	1580	1580	1	16.5				
		50	25	1643	1636	1667	1	16.5				
		50	50	1589	1588	1587	1	16.5				
		100	0	1589	1583	1588	1	16.5				
		1	0	1589	1583	1588	1	16.5				
		1	50	1549	1553	1550	1	16.5				
	64QAM	99	99	1589	1559	1586	1	16.5				
		50	0	1488	1482	1449	3	14.5				
		50	25	1461	1455	1458	3	14.5				
50		50	1472	1470	1463	3	14.5					
100		0	1470	1454	1467	3	14.5					
1		0	1488	1486	1487	3	14.5					

		LTE Band 2 (Ant2)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		1850	1860	1870	30PPH MPR	Max. Twp-up	1880	1890	1900	
		Frequency (MHz)	(MHz)	1855	1865	1875	MPR	Time-up	1885	1895	1905	Max.
10M	OPK	1	0	1756	1764	1772	0	18.5				
		1	50	1751	1735	1748	0	18.5				
		1	100	1729	1732	1729	0	18.5				
	16QAM	36	39	1647	1629	1629	1	17.5				
		50	25	1668	1654	1657	1	17.5				
		50	50	1653	1645	1656	1	17.5				
		100	0	1666	1658	1668	1	17.5				
		1	0	1666	1660	1663	1	17.5				
		1	50	1663	1653	1660	1	17.5				
	64QAM	99	99	1666	1652	1655	1	17.5				
		50	0	1656	1648	1657	2	16.5				
		50	25	1664	1648	1651	2	16.5				
50		50	1648	1652	1649	2	16.5					
100		0	1665	1649	1652	2	16.5					
1		0	1661	1656	1662	2	16.5					

		LTE Band 4 (Ant2)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		1850	1860	1870	30PPH MPR	Max. Twp-up	1880	1890	1900	
		Frequency (MHz)	(MHz)	1855	1865	1875	MPR	Time-up	1885	1895	1905	Max.
10M	OPK	1	0	1726	1734	1742	0	18.5				
		1	50	1735	1742	1738	0	18.5				
		1	100	1722	1729	1730	0	18.5				
	16QAM	36	39	1644	1640	1639	1	17.5				
		50	25	1636	1643	1675	1	17.5				
		50	50	1645	1644	1668	1	17.5				
		100	0	1646	1640	1669	1	17.5				
		1	0	1666	1669	1697	1	17.5				
		1	50	1653	1666	1686	1	17.5				
	64QAM	99	99	1656	1648	1685	1	17.5				
		50	0	1646	1648	1666	2	16.5				
		50	25	1648	1648	1678	2	16.5				
50		50	1645	1642	1658	2	16.5					
100		0	1641	1652	1672	2	16.5					
1		0	1662	1658	1683	2	16.5					

		LTE Band 7 (Ant2)										
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	30PPH MPR (dB)	Max. Twp-up (MHz)				
		Channel		2080	2100	2120	30PPH MPR	Max. Twp-up	2100	2130	2160	
		Frequency (MHz)	(MHz)	2085	2095	2115	MPR	Time-up	2115	2145	2175	Max.
10M	OPK	1	0	1656	1650	1637	0	17.5				
		1	50	1641	1635	1638	0	17.5				
		1	100	1658	1647	1650	0	17.5				
	16QAM	36	39	1587	1580	1580	1	16.5				
		50	25	1643	1636	1667	1	16.5				
		50	50	1589	1588	1587	1	16.5				
		100	0	1589	1583	1588	1	16.5				
		1	0	1589	1583	1588	1	16.5				
		1	50	1549	1553	1550	1	16.5				
	64QAM	99	99	1589	1559	1586	1	16.5				
		50	0	1488	1482	1449	3	14.5				
		50	25	1461	1455	1458	3	14.5				
50		50	1472	1470	1463	3	14.5					
100		0	1470	1454	1467	3	14.5					
1		0	1488	1486	1487	3	14.5					

		LTE Band 2 (Ant3)									
SW	MCS Index	RB Size	RB Offset	Low	Mid	High	3				

LTE Band 25 (Ant1)													
BW	MCS Index	RB Size	RB Offset	Channel				3GPP MPR (dB)	Max. TxAvg. (dBm)				
				Low	Mid	High	Max.						
20M	QPSK	1	0	17.66	17.68	17.63	0	18.5					
		1	50	17.59	17.55	17.46	0	18.5					
		1	99	17.52	17.45	0	18.5						
		36	50	16.84	16.83	17.5	1	17.5					
	16QAM	50	25	16.74	16.72	16.69	1	17.5					
		50	50	16.64	16.60	16.63	1	17.5					
		100	0	16.62	16.58	16.61	1	17.5					
		1	0	17.06	16.92	17.03	1	17.5					
		1	50	16.70	16.76	16.71	1	17.5					
		1	99	16.78	16.70	16.75	1	17.5					
		50	0	15.73	15.64	2	16.5						
		50	25	15.66	15.70	15.65	2	16.5					
64QAM	50	50	15.70	15.58	15.59	2	16.5						
	100	0	15.88	15.99	15.69	2	16.5						
	1	0	16.90	16.92	16.77	2	16.5						
	1	50	16.59	16.55	16.56	2	16.5						
	1	99	16.68	16.69	16.59	2	16.5						
	50	0	15.89	15.55	15.60	3	15.5						
	50	25	15.66	15.70	15.65	3	15.5						
	100	0	15.89	15.55	15.66	3	15.5						
10M	QPSK	1	0	18.07	18.00	18.02	0	18.5					
		1	37	17.58	17.53	17.41	0	18.5					
		1	74	17.44	17.31	17.43	0	18.5					
		36	0	16.71	16.60	16.60	1	17.5					
	16QAM	36	19	16.71	16.71	16.63	1	17.5					
		36	39	16.60	16.56	16.61	1	17.5					
		75	0	16.60	16.70	16.64	1	17.5					
		1	0	17.04	16.84	17.02	1	17.5					
		1	37	16.62	16.72	16.66	1	17.5					
		1	74	16.76	16.81	16.73	1	17.5					
		36	0	15.72	15.68	15.46	2	16.5					
		36	19	15.60	15.67	15.61	2	16.5					
64QAM	36	39	15.68	15.61	2	16.5							
	75	0	15.59	15.51	15.66	2	16.5						
	1	0	16.55	16.30	16.63	2	16.5						
	1	37	16.52	16.47	16.50	2	16.5						
	1	74	16.56	16.07	16.55	2	16.5						
	36	0	15.67	15.47	15.65	3	15.5						
	36	19	15.60	15.67	15.61	3	15.5						
	36	39	15.67	15.47	15.65	3	15.5						
BW	MCS Index	Channel	2080	2040	2040	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	1855	1880	1910	0	18.5						
		1	0	17.80	17.50	17.61	0	18.5					
		1	24	17.58	17.53	17.38	0	18.5					
	10M	QPSK	1	49	17.45	17.30	17.39	0	18.5				
			25	0	16.89	16.58	16.61	1	17.5				
			25	12	16.72	16.66	16.64	1	17.5				
			25	25	16.58	16.52	16.61	1	17.5				
		16QAM	50	0	16.64	16.64	16.66	1	17.5				
			1	0	16.88	16.68	16.98	1	17.5				
			1	24	16.69	16.68	16.70	1	17.5				
			1	49	16.70	16.66	16.70	1	17.5				
64QAM	25	0	15.70	15.57	15.52	2	16.5						
	25	12	15.84	15.63	15.60	2	16.5						
	25	25	15.64	15.50	15.57	2	16.5						
	50	0	15.64	15.57	15.60	2	16.5						
BW	MCS Index	Channel	2095	2040	2040	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	1865	1880	1910	0	18.5						
		1	0	17.50	17.50	17.50	0	18.5					
		1	24	17.46	17.36	17.40	0	18.5					
	10M	QPSK	12	0	16.85	16.59	16.61	1	17.5				
			12	8	16.66	16.70	16.64	1	17.5				
			12	13	16.62	16.52	16.61	1	17.5				
			25	0	16.58	16.66	16.59	1	17.5				
		16QAM	1	0	17.00	16.90	16.97	1	17.5				
			1	12	16.83	16.71	16.69	1	17.5				
			1	24	16.72	16.63	16.70	1	17.5				
			12	0	15.66	15.58	15.52	2	16.5				
64QAM	12	8	15.58	15.68	15.59	2	16.5						
	12	13	15.62	15.57	15.57	2	16.5						
	25	0	15.81	15.54	15.60	2	16.5						
	1	0	16.88	16.61	16.82	2	16.5						
BW	MCS Index	Channel	2087	2040	2040	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	1867.5	1880	1914.5	0	18.5						
		1	0	17.60	17.51	17.58	0	18.5					
		1	7	17.52	17.50	17.44	0	18.5					
	3M	QPSK	1	14	17.44	17.36	17.39	0	18.5				
			8	0	16.64	16.63	16.61	1	17.5				
			8	3	16.70	16.67	16.61	1	17.5				
			8	7	16.56	16.59	16.61	1	17.5				
		16QAM	15	0	16.61	16.67	16.63	1	17.5				
			1	0	17.04	16.84	17.02	1	17.5				
			1	7	16.62	16.72	16.66	1	17.5				
			1	14	16.75	16.64	16.73	1	17.5				
64QAM	8	0	15.71	15.56	15.49	2	16.5						
	8	3	15.60	15.62	15.63	2	16.5						
	8	7	15.69	15.56	15.51	2	16.5						
	15	0	15.80	15.51	15.62	2	16.5						
BW	MCS Index	Channel	2097	2040	2040	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	1867.5	1880	1914.5	0	18.5						
		1	0	17.65	17.56	17.55	0	18.5					
		1	2	17.54	17.47	17.40	0	18.5					
	14M	QPSK	1	5	17.51	17.32	17.43	0	18.5				
			3	0	17.67	17.57	17.58	0	18.5				
			3	1	17.72	17.64	17.67	0	18.5				
			3	3	17.59	17.52	17.62	0	18.5				
		16QAM	6	0	16.62	16.67	16.62	1	17.5				
			1	0	16.98	16.91	16.98	1	17.5				
			1	2	16.66	16.71	16.70	1	17.5				
			3	0	16.72	16.68	16.70	1	17.5				
64QAM	3	0	16.06	16.08	16.52	1	17.5						
	3	1	16.58	16.68	16.60	1	17.5						
	3	3	16.68	16.50	16.57	1	17.5						
	6	0	15.57	15.53	15.60	2	16.5						
14M	QPSK	1	0	16.90	16.90	16.71	2	16.5					
		1	2	16.54	16.47	16.55	2	16.5					
		1	5	16.64	16.63	16.54	2	16.5					
		3	0	16.61	16.49	16.58	2	16.5					
	16QAM	3	1	16.64	16.62	16.63	2	16.5					
		3	3	16.64	16.47	16.65	2	16.5					
		3	3	16.64	16.62	16.63	2	16.5					
		6	0	15.62	15.56	15.69	3	15.5					

LTE Band 38 (Ant1)													
BW	MCS Index	RB Size	RB Offset	Channel				3GPP MPR (dB)	Max. TxAvg. (dBm)				
				Low	Mid	High	Max.						
20M	QPSK	1	0	20.50	20.50	20.50	0	21					
		1	24	20.47	20.47	20.47	0	21					
		1	49	20.46	20.46	20.46	0	21					
		25	0	19.45	19.44	19.44	1	20					
	16QAM	25	12	19.45	19.45	19.45	1	20					
		25	25	19.51	19.51	19.51	1	20					
		50	0	19.66	19.39	19.41	1	20					
		1	0	19.65	19.65	19.65	1	20					
		1	24	19.66	19.66	19.66	1	20					
		1	49	19.63	19.63	19.63	1	20					
		25	0	18.44	18.44	18.44	2	19					
		25	12	18.44	18.44	18.44	2	19					
64QAM	50	0	18.47	18.47	18.47	2	19						
	1	0	19.54	19.54	19.54	2	19						
	1	24	19.61	19.61	19.61	2	19						
	1	49	19.52	19.52	19.52	2	19						
	25	0	18.49	18.49	18.49	3	18						
	25	12	18.49	18.49	18.49	3	18						
	25	25	18.40	18.40	18.40	3	18						
	50	0	18.44	18.44	18.44	3	18						
10M	QPSK	Channel	2785	2778	2773	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	2307.5	2316	2323.5	0	18.5						
		1	0	20.45	20.42	20.48	0	21					
		1	12	20.38	20.39	20.42	0	21					
	16QAM	1	24	20.39	20.41	20.44	0	21					
		12	0	19.39	19.37	19.41	1	20					
		12	6	19.35	19.41	19.43	1	20					
		12	13	19.42	19.45	19.46	1	20					
		25	0	19.43	19.32	19.40	1	20					
		1	0	19.57	19.57	19.61	1	20					
		1	12	19.61	19.64	19.64	1	20					
		1	24	19.51	19.45	19.44	1	20					
64QAM	12	0	18.39	18.39	18.40	1	20						
	12	6	18.39	18.39	18.45	2	19						
	12	13	18.37	18.47	18.42	2	19						
	1	0	18.48	18.38	18.44	2	19						
	12	0	18.40	18.36	18.46	2	19						
	12	6	18.39	18.39	18.42	2	19						
	1	0	18.47	18.50	18.46	2	19						
	1	12	19.51	19.55	19.58	2	19						
BW	MCS Index	Channel	2785	2778	2773	3GPP MPR	Max. TxAvg.						
		Frequency (MHz)	2307.5	2316	2323.5	0	18.5						
		1	0	20.45	20.42	20.48	0	21					
		1	12	20.38	20.39	20.42	0	21					
	10M	QPSK	1	24	20.39	20.41	20.44	0	21				
			12	0	19.39	19.37	19.41	1	20				
			12	6	19.35	19.41	19.43	1	20				
			12	13	19.42	19.45	19.46	1	20				
		16QAM	25	0	19.43	19.32	19.40	1	20				
			1										

BW	MCS Index	LTE Band 41 (2496 - 2690MHz) (Ant1)										
		RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. TxDsp (dBm)		
				Channel Frequency (MHz)	3930	4050	4200	4350			4500	
20M	QPSK	1	0	18.48	18.52	18.30	18.02	18.01	0	19.5		
		1	50	18.40	18.38	18.26	17.84	18.00	0	19.5		
		1	99	18.42	18.30	18.29	17.98	18.00	0	19.5		
		50	0	17.44	17.45	17.36	16.85	17.07	1	18.5		
		50	25	17.56	17.53	17.36	17.06	17.08	1	18.5		
		50	50	17.43	17.45	17.39	17.05	17.08	1	18.5		
		100	0	17.57	17.56	17.36	16.99	17.03	1	18.5		
		1	0	17.27	17.31	17.11	16.82	16.88	1	18.5		
		1	50	17.21	17.20	17.10	16.69	16.77	1	18.5		
		1	99	17.23	17.25	17.09	16.81	16.77	1	18.5		
		50	0	16.40	16.36	16.30	15.99	2	17.5			
		50	25	16.43	16.44	16.33	15.98	16.00	2	17.5		
	50	50	16.42	16.46	16.32	16.03	16.02	2	17.5			
	100	0	16.81	16.84	16.84	16.04	16.08	2	17.5			
	1	0	17.39	17.48	17.30	16.95	17.07	2	17.5			
	16QAM	1	0	17.41	17.36	17.26	16.91	16.88	2	17.5		
		1	99	17.42	17.38	17.29	16.96	17.01	2	17.5		
		50	0	16.42	16.42	16.26	15.92	15.97	3	16.5		
		50	25	16.53	16.54	16.33	16.11	16.12	3	16.5		
		50	50	16.48	16.49	16.31	15.99	16.03	3	16.5		
		100	0	16.61	16.63	16.47	16.14	16.13	3	16.5		
		64QAM	1	0	17.39	17.48	17.30	16.95	17.07	2	17.5	
			1	99	17.42	17.38	17.26	16.91	16.88	2	17.5	
			50	0	16.42	16.42	16.26	15.92	15.97	3	16.5	
			50	25	16.53	16.54	16.33	16.11	16.12	3	16.5	
			50	50	16.48	16.49	16.31	15.99	16.03	3	16.5	
			100	0	16.61	16.63	16.47	16.14	16.13	3	16.5	
	5M		QPSK	1	0	18.47	18.48	18.22	18.00	17.95	0	19.5
				1	37	18.36	18.35	18.19	17.76	17.98	0	19.5
				1	74	18.40	18.49	18.32	17.90	18.00	0	19.5
				36	0	17.38	17.40	17.36	16.91	17.06	1	18.5
				36	19	17.55	17.51	17.30	17.05	17.01	1	18.5
				36	39	17.36	17.38	17.37	17.00	17.06	1	18.5
		75		0	17.56	17.52	17.31	17.02	17.05	1	18.5	
		16QAM		1	0	17.24	17.30	17.06	16.75	16.86	1	18.5
				1	37	17.17	17.15	17.08	16.61	16.70	1	18.5
1				74	17.17	17.28	17.24	16.79	16.82	1	18.5	
36				0	16.38	16.27	16.30	15.86	15.98	2	17.5	
36				19	16.35	16.40	16.28	15.92	15.95	2	17.5	
36			39	16.30	16.30	16.20	15.81	15.86	2	17.5		
75			0	16.40	16.49	16.33	15.96	16.02	2	17.5		
64QAM			1	0	17.33	17.46	17.26	16.99	17.07	2	17.5	
			1	37	17.39	17.29	17.20	16.80	16.80	2	17.5	
			1	74	17.38	17.30	17.21	16.79	17.00	2	17.5	
			36	0	16.41	16.40	16.17	15.89	15.94	3	16.5	
			36	19	16.46	16.46	16.27	15.90	16.08	3	16.5	
		36	39	16.46	16.48	16.27	15.94	16.07	3	16.5		
		75	0	16.50	16.45	16.10	15.81	16.00	3	16.5		
		10M	QPSK	1	0	18.40	18.48	18.25	17.95	17.93	0	19.5
				1	24	18.38	18.30	18.24	17.76	17.90	0	19.5
				1	49	18.34	18.46	18.24	17.96	17.88	0	19.5
				25	0	17.41	17.39	17.34	16.87	17.04	1	18.5
				25	12	17.54	17.46	17.30	17.00	17.06	1	18.5
25				25	17.37	17.37	17.27	17.04	17.03	1	18.5	
50				0	17.56	17.54	17.28	17.00	17.08	1	18.5	
16QAM				1	0	17.20	17.23	17.05	16.80	16.83	1	18.5
				1	24	17.18	17.14	17.08	16.64	16.75	1	18.5
				1	49	17.21	17.18	17.04	16.79	16.69	1	18.5
				25	0	16.34	16.27	16.29	15.82	15.93	2	17.5
				25	12	16.41	16.36	16.32	15.95	15.94	2	17.5
			25	25	16.34	16.62	16.27	16.01	15.96	2	17.5	
			50	0	16.58	16.46	16.40	15.98	16.00	2	17.5	
			64QAM	1	0	17.31	17.45	17.25	17.00	17.06	2	17.5
	1			24	17.38	17.30	17.23	16.83	16.80	2	17.5	
	1			49	17.40	17.31	17.24	16.94	16.90	2	17.5	
	25			0	16.36	16.34	16.23	15.84	15.90	3	16.5	
	25			12	16.52	16.52	16.25	16.08	16.09	3	16.5	
25	25			16.43	16.41	16.25	15.94	16.07	3	16.5		
50	0			16.60	16.47	16.45	16.12	16.07	3	16.5		
5M	QPSK			1	0	18.43	18.45	18.25	17.97	17.95	0	19.5
				1	12	18.38	18.30	18.23	17.80	17.93	0	19.5
				1	24	18.37	18.42	18.28	17.90	17.90	0	19.5
				12	0	17.40	17.40	17.31	16.91	17.00	1	18.5
				12	6	17.48	17.52	17.30	17.00	17.00	1	18.5
			12	13	17.38	17.40	17.38	16.98	17.02	1	18.5	
			25	0	17.51	17.54	17.29	16.97	17.08	1	18.5	
			16QAM	1	0	17.20	17.26	17.09	16.74	16.83	1	18.5
				1	12	17.13	17.18	17.05	16.65	16.76	1	18.5
				1	24	17.21	17.17	17.07	16.73	16.72	1	18.5
				12	0	16.32	16.29	16.23	15.86	15.97	2	17.5
				12	6	16.37	16.42	16.27	15.92	15.95	2	17.5
	12			13	16.35	16.41	16.30	16.02	16.00	2	17.5	
	25			0	16.55	16.47	16.38	15.99	16.07	2	17.5	
	64QAM			1	0	17.29	17.44	17.28	16.97	17.03	2	17.5
		1		12	17.23	17.34	17.19	16.90	16.83	2	17.5	
		1		24	17.34	17.37	17.27	16.91	17.00	2	17.5	
		12		0	16.38	16.37	16.17	15.90	15.95	3	16.5	
		12		6	16.46	16.55	16.31	16.06	16.07	3	16.5	
		12	13	16.44	16.44	16.23	15.97	16.05	3	16.5		
		25	0	16.55	16.51	16.44	16.06	16.05	3	16.5		

BW	MCS Index	LTE Band 42 Part2Q (Ant2)									
		RB Size	RB Offset	Low	Low Mid	Mid	High Mid	High	3GPP MPR (dB)	Max. TxDsp (dBm)	
				Channel Frequency (MHz)	4210 <th>4290 <th>4390 <th>4500 </th></th></th>	4290 <th>4390 <th>4500 </th></th>	4390 <th>4500 </th>	4500			
20M	QPSK	1	0	17.91	17.90	17.90	17.90	0	19		
		1	50	17.78	17.55	17.74	17.74	0	19		
		1	99	17.74	17.57	17.76	17.76	0	19		
		50	0	16.87	16.81	16.85	16.81	1	18		
		50	25	16.78	16.81	16.80	16.81	1	18		
		50	50	16.84	16.71	16.83	16.81	1	18		
		100	0	16.86	16.79	16.84	16.81	1	18		
		1	0	16.41	16.34	16.47	16.41	1	18		
		1	50	16.27	16.28	16.29	16.29	1	18		
		1	99	16.41	16.18	16.37	16.31	1	18		
		50	0	15.71	15.67	15.70	2	17			
		50	25	15.80	15.77	15.76	2	17			
	50	50	15.75	15.68	15.81	2	17				
	100	0	15.82	15.79	15.90	2	17				
	1	0	15.49	15.42	15.55	2	17				
	1	50	15.38	15.39	15.38	2	17				
	1	99	15.27	15.40	15.45	2	17				
	50	0	14.81	14.78	14.79	3	16				
	50	25	14.87	14.90	14.95	3	16				
	50	50	14.89	14.76	14.77	3	16				
	100	0	14.87	14.84	14.89	3	16				
	10M	QPSK	1	0	17.76	17.59	17.74	17.74	0	19	
			1	37	17.76	17.47	17.72	17.72	0	19	
			1	74	17.65	17.51	17.77	17.77	0	19	
			36	0	16.83	16.78	16.80	16.81	1	18	
			36	19	16.70	16.80	16.75	16.81	1	18	
			36	39	16.80	16.80	16.82	16.82	1	18	
			75	0	16.80	16.81	16.79	16.81	1	18	
			16QAM	1	0	16.34	16.29	16.45	16.45	1	18
				1	37	16.19	16.26	16.24	16.24	1	18
				1	74	16.29	16.36	16.34	16.34	1	18
				36	0	15.68	15.61	15.62	2	17	
				36	19	15.74	15.75	15.70	2	17	
		36		39	15.68	15.63	15.79	2	17		
		75		0	15.86	15.92	15.80	2	17		
		64QAM		1	0	15.42	15.37	15.53	2	17	
1				37	15.30	15.37	15.32	2	17		
1				74	15.42	15.56	15.43	2	17		
36				0	14.87	14.73	14.71	3	16		
36				19	14.79	14.89	14.93	3	16		
36			39	14.85	14.71	14.69	3	16			

LTE Band 43 (Ant7)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel			43690	44090			44490
		Frequency (MHz)			3610	3650			3690
20M	QPSK	1	0	18.03	18.26	18.24	0	19	
		1	50	17.95	18.10	18.00	0	19	
		1	99	17.83	18.08	17.86	0	19	
		50	0	16.87	17.06	17.00	1	18	
		50	25	16.97	17.15	17.03	1	18	
		50	50	16.89	16.98	17.00	1	18	
		100	0	16.84	17.13	16.99	1	18	
	16QAM	1	0	17.03	17.18	17.14	1	18	
		1	50	16.87	17.00	16.82	1	18	
		1	99	16.83	17.10	16.96	1	18	
		50	0	15.92	16.03	15.95	2	17	
		50	25	15.83	16.00	16.00	2	17	
		50	50	15.87	16.06	15.82	2	17	
		100	0	15.91	16.10	16.02	2	17	
	64QAM	1	0	15.79	16.02	15.84	2	17	
		1	50	15.67	15.76	15.78	2	17	
		1	99	15.60	15.83	15.65	2	17	
		50	0	14.99	15.18	14.94	3	16	
		50	25	14.87	15.04	15.04	3	16	
		50	50	14.95	15.08	14.90	3	16	
		100	0	14.91	15.10	15.04	3	16	
BW	MCS Index	Channel			43665	44090	44515	3GPP MPR	Max. Tune-up
		Frequency (MHz)			3607.5	3650	3692.5		
		1	0	17.95	18.19	18.22	0		
15M	QPSK	1	37	17.94	18.06	17.97	0	19	
		1	74	17.80	18.07	17.80	0	19	
		36	0	16.83	17.01	16.98	1	18	
		36	19	16.91	17.13	17.00	1	18	
		36	39	16.87	16.90	16.99	1	18	
		75	0	16.76	17.09	16.94	1	18	
		16QAM	1	0	17.00	17.12	17.12	1	18
	1		37	16.86	16.95	16.74	1	18	
	1		74	16.77	17.07	16.92	1	18	
	36		0	15.90	15.96	15.90	2	17	
	36		19	15.77	15.92	15.98	2	17	
	36		39	15.86	16.04	15.74	2	17	
	75		0	15.84	16.02	15.96	2	17	
	64QAM	1	0	15.77	16.01	15.80	2	17	
		1	37	15.65	15.68	15.77	2	17	
		1	74	15.58	15.82	15.61	2	17	
		36	0	14.98	15.16	14.86	3	16	
		36	19	14.81	14.96	15.02	3	16	
		36	39	14.94	15.03	14.82	3	16	
		75	0	14.87	15.05	15.02	3	16	
	BW	MCS Index	Channel			43640	44090	44540	3GPP MPR
Frequency (MHz)			3605	3650	3695				
1			0	17.95	18.22	18.19	0	19	
10M	QPSK	1	24	17.92	18.04	17.98	0	19	
		1	49	17.81	18.01	17.81	0	19	
		25	0	16.81	16.98	16.98	1	18	
		25	12	16.96	17.13	16.95	1	18	
		25	25	16.82	16.90	16.94	1	18	
		50	0	16.81	17.07	16.97	1	18	
		16QAM	1	0	17.01	17.11	17.09	1	18
	1		24	16.81	16.92	16.80	1	18	
	1		49	16.81	17.02	16.95	1	18	
	25		0	15.84	15.99	15.90	2	17	
	25		12	15.81	15.92	15.99	2	17	
	25		25	15.79	16.02	15.77	2	17	
	50		0	15.88	16.04	16.00	2	17	
	64QAM	1	0	15.77	15.95	15.79	2	17	
		1	24	15.61	15.68	15.76	2	17	
		1	49	15.59	15.81	15.57	2	17	
		25	0	14.94	15.10	14.88	3	16	
		25	12	14.86	14.98	15.02	3	16	
		25	25	14.92	15.02	14.88	3	16	
		50	0	14.83	15.06	14.99	3	16	
	BW	MCS Index	Channel			43615	44090	44565	3GPP MPR
Frequency (MHz)			3602.5	3650	3697.5				
1			0	17.98	18.19	18.19	0	19	
5M	QPSK	1	12	17.93	18.02	17.98	0	19	
		1	24	17.75	18.07	17.81	0	19	
		12	0	16.83	17.01	16.99	1	18	
		12	6	16.91	17.13	16.98	1	18	
		12	13	16.82	16.93	16.98	1	18	
		25	0	16.76	17.11	16.94	1	18	
		16QAM	1	0	17.01	17.10	17.12	1	18
	1		12	16.79	16.94	16.74	1	18	
	1		24	16.77	17.08	16.90	1	18	
	12		0	15.85	15.98	15.93	2	17	
	12		6	15.77	15.93	15.95	2	17	
	12		13	15.80	16.01	15.80	2	17	
	25		0	15.83	16.08	15.96	2	17	
	64QAM	1	0	15.71	16.01	15.82	2	17	
		1	12	15.63	15.71	15.70	2	17	
		1	24	15.52	15.82	15.63	2	17	
		12	0	14.95	15.13	14.86	3	16	
		12	6	14.81	15.02	15.01	3	16	
		12	13	14.88	15.03	14.88	3	16	
		25	0	14.83	15.08	14.99	3	16	

LTE Band 48 (Ant7)										
BW	MCS Index	RB Size	RB Offset	Low	Low Mid	High Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)	
		Channel			55340	55830	56150			56640
		Frequency (MHz)			3560	3609	3641			3690
20M	QPSK	1	0	17.87	18.02	18.21	18.26	0	19	
		1	50	17.83	17.92	18.19	18.23	0	19	
		1	99	17.66	17.95	18.06	18.10	0	19	
		50	0	16.90	17.05	17.26	17.30	1	18	
		50	25	16.84	16.95	17.12	17.16	1	18	
		50	50	16.74	16.91	17.16	17.20	1	18	
		100	0	16.86	17.05	17.06	17.10	1	18	
	16QAM	1	0	16.64	16.83	17.00	17.04	1	18	
		1	50	16.70	16.85	17.06	17.10	1	18	
		1	99	16.69	16.80	16.97	17.01	1	18	
		50	0	15.80	15.97	16.22	16.16	2	17	
		50	25	15.84	15.93	16.20	16.16	2	17	
		50	50	15.69	15.98	16.09	16.19	2	17	
		100	0	15.86	15.95	16.22	16.26	2	17	
	64QAM	1	0	15.55	15.84	15.95	15.99	2	17	
		1	50	15.61	15.76	15.97	16.03	2	17	
		1	99	15.59	15.70	15.87	15.91	2	17	
		50	0	14.76	14.93	15.18	15.22	3	16	
		50	25	14.82	15.01	15.02	15.06	3	16	
		50	50	14.71	14.86	15.03	15.09	3	16	
		100	0	14.83	14.94	15.15	15.19	3	16	
BW	MCS Index	Channel			55315	55820	56160	56665	3GPP MPR	Max. Tune-up
		Frequency (MHz)			3557.5	3608	3642	3692.5		
		1	0	17.79	17.98	18.16	18.21	0		
15M	QPSK	1	37	17.81	17.84	18.18	18.22	0	19	
		1	74	17.58	17.91	18.01	18.05	0	19	
		36	0	16.87	16.99	17.24	17.28	1	18	
		36	19	16.82	16.88	17.07	17.11	1	18	
		36	39	16.68	16.83	17.14	17.18	1	18	
		75	0	16.85	17.03	16.98	17.02	1	18	
		16QAM	1	0	16.57	16.75	16.94	16.98	1	18
	1		37	16.67	16.79	17.04	17.08	1	18	
	1		74	16.67	16.73	16.92	16.96	1	18	
	36		0	15.74	15.89	16.20	16.09	2	17	
	36		19	15.82	15.85	16.19	16.11	2	17	
	36		39	15.61	15.94	16.04	16.17	2	17	
	75		0	15.84	15.87	16.21	16.25	2	17	
	64QAM	1	0	15.47	15.80	15.90	15.94	2	17	
		1	37	15.58	15.70	15.95	16.02	2	17	
		1	74	15.57	15.63	15.82	15.86	2	17	
		36	0	14.70	14.85	15.16	15.20	3	16	
		36	19	14.81	14.99	14.94	14.98	3	16	
		36	39	14.66	14.78	14.97	15.04	3	16	
		75	0	14.82	14.88	15.13	15.17	3	16	
	BW	MCS Index	Channel			55290	55815	56165	56690	3GPP MPR
Frequency (MHz)			3555	3607.5	3642.5	3695				
1			0	17.82	17.95	18.16	18.21	0	19	
10M	QPSK	1	24	17.81	17.84	18.17	18.22	0	19	
		1	49	17.61	17.87	18.05	18.05	0	19	
		25	0	16.86	17.00	17.21	17.28	1	18	
		25	12	16.76	16.94	17.07	17.11	1	18	
		25	25	16.70	16.86	17.15	17.18	1	18	
		50	0	16.80	17.03	17.01	17.02	1	18	
		16QAM	1	0	16.57	16.78	16.98	16.98	1	18
	1		24	16.62	16.83	17.01	17.08	1	18	
	1		49	16.67	16.72	16.95	16.96	1	18	
	25		0	15.72	15.91	16.14	16.09	2	17	
	25		12	15.78	15.91	16.14	16.11	2	17	
	25		25	15.62	15.93	16.07	16.17	2	17	
	50		0	15.80	15.88	16.17	16.25	2	17	
	64QAM	1	0	15.48	15.79	15.93	15.94	2	17	
		1	24	15.53	15.74	15.91	16.02	2	17	
		1	49	15.51	15.69	15.85	15.86			

LTE Band 66 (Ant1)										
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel	Frequency (MHz)	132072	132122	132172				
20M	QPSK	1	0	17.74	17.90	17.94	0	18.5		
		1	50	17.90	18.02	18.20	0	18.5		
		1	99	18.01	18.07	18.23	0	18.5		
		50	0	17.69	17.21	17.39	1	17.5		
		50	25	17.06	17.26	17.30	1	17.5		
		50	50	17.10	17.32	17.42	1	17.5		
		100	0	17.12	17.18	17.24	1	17.5		
		1	0	17.40	17.62	17.72	1	17.5		
		1	50	17.27	17.35	17.49	1	17.5		
		1	99	17.48	17.44	17.70	1	17.5		
	16QAM	50	0	16.12	16.28	16.38	2	16.5		
		50	25	16.18	16.14	16.38	2	16.5		
		50	50	16.18	16.16	16.32	2	16.5		
		100	0	16.11	16.15	16.39	2	16.5		
		1	0	17.51	17.57	17.57	2	16.5		
		1	50	17.20	17.22	17.38	2	16.5		
		1	99	17.45	17.43	17.63	2	16.5		
		50	0	16.19	16.33	16.35	3	15.5		
		50	25	16.18	16.12	16.38	3	15.5		
		50	50	16.06	16.22	16.32	3	15.5		
	64QAM	100	0	16.20	16.16	16.42	3	15.5		
		Channel	132047	132122	132197	3GPP MPR	Max. Tune-up			
		Frequency (MHz)	1717.5	1745	1775.5					
		10M	QPSK	1	0	17.68	17.85	17.85	0	18.5
				1	37	17.83	17.97	18.18	0	18.5
				1	74	17.95	18.00	18.18	0	18.5
				36	0	17.02	17.16	17.37	1	17.5
				36	19	16.98	17.24	17.24	1	17.5
			36	39	17.02	17.31	17.40	1	17.5	
			75	0	17.08	17.13	17.16	1	17.5	
16QAM	1		0	17.32	17.61	17.70	1	17.5		
	1		37	17.22	17.30	17.45	1	17.5		
	1		74	17.46	17.36	17.69	1	17.5		
	36	0	16.04	16.24	16.33	2	16.5			
	36	19	16.12	16.11	16.35	2	16.5			
64QAM	36	39	16.16	16.09	16.27	2	16.5			
	75	0	16.05	16.07	16.37	2	16.5			
	1	0	17.50	17.55	17.49	2	16.5			
	1	37	17.15	17.14	17.32	2	16.5			
	1	74	17.44	17.37	17.61	2	16.5			
BW	QPSK	36	0	16.14	16.31	16.28	3	15.5		
		36	19	16.14	16.04	16.37	3	15.5		
		36	39	15.98	16.18	16.21	3	15.5		
		75	0	16.18	16.08	16.41	3	15.5		
		Channel	132022	132122	132122	3GPP MPR	Max. Tune-up			
	Frequency (MHz)	1715	1745	1775						
	10M	QPSK	1	0	17.71	17.84	17.92	0	18.5	
			1	24	17.88	17.94	18.19	0	18.5	
			1	49	17.93	18.03	18.18	0	18.5	
			25	0	17.06	17.15	17.37	1	17.5	
25			12	17.04	17.19	17.25	1	17.5		
16QAM		25	25	17.04	17.24	17.40	1	17.5		
		50	0	17.11	17.16	17.16	1	17.5		
		1	0	17.33	17.54	17.65	1	17.5		
		1	24	17.24	17.29	17.47	1	17.5		
		1	49	17.46	17.37	17.65	1	17.5		
64QAM	25	0	16.06	16.20	16.36	2	16.5			
	25	12	16.13	16.09	16.36	2	16.5			
	25	25	16.10	16.12	16.27	2	16.5			
	50	0	16.09	16.07	16.38	2	16.5			
	1	0	17.43	17.63	17.62	2	16.5			
BW	QPSK	1	0	17.17	17.16	17.36	2	16.5		
		1	49	17.43	17.36	17.58	2	16.5		
		25	0	16.13	16.25	16.33	3	15.5		
		25	12	16.15	16.10	16.30	3	15.5		
		25	25	16.01	16.14	16.26	3	15.5		
	64QAM	50	0	16.19	16.10	16.40	3	15.5		
		Channel	131997	132122	132147	3GPP MPR	Max. Tune-up			
		Frequency (MHz)	1712.5	1745	1777.5					
		3M	QPSK	1	0	17.69	17.83	17.89	0	18.5
				1	12	17.88	17.94	18.19	0	18.5
1	24			17.96	17.99	18.22	0	18.5		
12	0			17.05	17.16	17.34	1	17.5		
12	6			16.98	17.25	17.25	1	17.5		
16QAM	12		13	17.06	17.27	17.41	1	17.5		
	25		0	17.06	17.16	17.19	1	17.5		
	1		0	17.33	17.57	17.70	1	17.5		
	1		12	17.19	17.33	17.44	1	17.5		
	1		24	17.46	17.36	17.68	1	17.5		
64QAM	12	0	16.04	16.22	16.30	2	16.5			
	12	6	16.09	16.15	16.31	2	16.5			
	12	13	16.11	16.11	16.30	2	16.5			
	25	0	16.08	16.08	16.24	2	16.5			
	1	0	17.44	17.62	17.55	2	16.5			
BW	QPSK	1	12	17.12	17.20	17.32	2	16.5		
		1	24	17.37	17.42	17.61	2	16.5		
		12	0	16.15	16.48	16.27	3	15.5		
		12	6	16.08	16.11	16.36	3	15.5		
		12	13	16.02	16.17	16.24	3	15.5		
	64QAM	25	0	16.14	16.14	16.39	3	15.5		
		Channel	131997	132122	132165	3GPP MPR	Max. Tune-up			
		Frequency (MHz)	1712.5	1745	1779.5					
		1.4M	QPSK	1	0	17.68	17.85	17.93	0	18.5
				1	7	17.89	18.00	18.15	0	18.5
1	14			17.93	18.00	18.21	0	18.5		
8	0			17.08	17.17	17.36	1	17.5		
8	3			17.03	17.25	17.24	1	17.5		
8	7			17.06	17.27	17.40	1	17.5		
16QAM	15		0	17.08	17.18	17.21	1	17.5		
	1		0	17.28	17.54	17.71	1	17.5		
	1		7	17.19	17.31	17.44	1	17.5		
	1		14	17.45	17.38	17.68	1	17.5		
	8	0	16.11	16.23	16.30	2	16.5			
	8	3	16.09	16.14	16.33	2	16.5			
64QAM	8	7	16.16	16.09	16.27	2	16.5			
	15	0	16.05	16.07	16.37	2	16.5			
	1	0	17.50	17.55	17.49	2	16.5			
	1	7	17.13	17.14	17.32	2	16.5			
	1	14	17.43	17.42	17.59	2	16.5			
	8	0	16.17	16.25	16.34	3	15.5			
BW	QPSK	8	3	16.14	16.04	16.37	3	15.5		
		8	7	16.04	16.21	16.28	3	15.5		
		15	0	16.17	16.15	16.36	3	15.5		
		Channel	131979	132122	132165	3GPP MPR	Max. Tune-up			
		Frequency (MHz)	1716.7	1745	1779.3					
		16QAM	1	0	17.68	17.85	17.89	0	18.5	
	1		2	17.87	17.96	18.18	0	18.5		
	1		5	17.99	18.00	18.18	0	18.5		
	3		0	18.03	18.13	18.37	0	18.5		
	3		1	18.05	18.24	18.22	0	18.5		
3	3		18.05	18.24	18.36	0	18.5			
64QAM	6	0	17.11	17.12	17.22	1	17.5			
	1	0	17.35	17.55	17.67	1	17.5			
	1	2	17.25	17.27	17.47	1	17.5			
	1	5	17.43	17.36	17.69	1	17.5			
	3	0	17.08	17.23	17.33	1	17.5			
	3	1	17.07	17.16	17.34	1	17.5			
64QAM	3	3	17.14	17.11	17.31	1	17.5			
	6	0	16.05	16.13	16.34	2	16.5			
	1	0	17.44	17.52	17.55	2	16.5			
	1	2	17.12	17.20	17.61	2	16.5			
	1	5	17.43	17.35	17.61	2	16.5			
	3	0	17.11	17.27	17.27	2	16.5			
64QAM	3	1	17.10	17.10	17.32	2	16.5			
	3	3	17.01	17.14	17.31	2	16.5			
	6	0	16.16	16.11	16.37	3	15.5			

UL CA

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Tune up limit (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	0	0	1	16.50	17.50
		16QAM	1	99	0	0	1	15.71	16.50
		64QAM	1	99	0	0	1	14.51	15.50
21100	21298	QPSK	1	99	0	0	1	16.55	17.50
		16QAM	1	99	0	0	1	15.58	16.50
		64QAM	1	99	0	0	1	14.68	15.50
21350	21152	QPSK	1	99	0	0	1	16.37	17.50
		16QAM	1	99	0	0	1	15.62	16.50
		64QAM	1	99	0	0	1	14.46	15.50

CA_38C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	1	18.18	19.50
		16QAM	1	0	0	0	1	17.54	18.50
		64QAM	1	0	0	0	1	16.20	17.50
37901	38099	QPSK	1	0	0	0	1	18.08	19.50
		16QAM	1	0	0	0	1	17.26	18.50
		64QAM	1	0	0	0	1	15.96	17.50
38150	37952	QPSK	1	0	0	0	1	17.92	19.50
		16QAM	1	0	0	0	1	17.11	18.50
		64QAM	1	0	0	0	1	16.08	17.50

CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	0	0	0	1	18.11	19.50
		16QAM	1	0	0	0	1	17.31	18.50
		64QAM	1	0	0	0	1	15.78	17.50
40185	40383	QPSK	1	0	0	0	1	18.02	19.50
		16QAM	1	0	0	0	1	17.14	18.50
		64QAM	1	0	0	0	1	15.69	17.50
40620	40818	QPSK	1	0	0	0	1	17.89	19.50
		16QAM	1	0	0	0	1	17.15	18.50
		64QAM	1	0	0	0	1	15.52	17.50
41055	41253	QPSK	1	0	0	0	1	17.77	19.50
		16QAM	1	0	0	0	1	17.01	18.50
		64QAM	1	0	0	0	1	15.52	17.50
41490	41292	QPSK	1	0	0	0	1	17.40	19.50
		16QAM	1	0	0	0	1	16.56	18.50
		64QAM	1	0	0	0	1	15.12	17.50

CA_42C Part27									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
42190	42388	QPSK	1	0	0	0	1	17.37	19.00
		16QAM	1	0	0	0	1	16.63	18.00
		64QAM	1	0	0	0	1	15.11	17.00
42590	42392	QPSK	1	0	0	0	1	17.53	19.00
		16QAM	1	0	0	0	1	16.62	18.00
		64QAM	1	0	0	0	1	15.04	17.00
42990	42792	QPSK	1	0	0	0	1	17.41	19.00
		16QAM	1	0	0	0	1	16.62	18.00
		64QAM	1	0	0	0	1	15.10	17.00

CA_48C For SAR									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	1	0	0	0	1	20.44	22.00
		16QAM	1	0	0	0	1	19.66	21.00
		64QAM	1	0	0	0	1	18.14	20.00
55830	56028	QPSK	1	0	0	0	1	20.29	22.00
		16QAM	1	0	0	0	1	19.51	21.00
		64QAM	1	0	0	0	1	18.08	20.00
56150	56348	QPSK	1	0	0	0	1	20.39	22.00
		16QAM	1	0	0	0	1	19.63	21.00
		64QAM	1	0	0	0	1	18.12	20.00
56640	56442	QPSK	1	0	0	0	1	20.24	22.00
		16QAM	1	0	0	0	1	19.51	21.00
		64QAM	1	0	0	0	1	18.06	20.00

DL CA

Configure		CA List	PCC						SCC				Power		
			LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
			Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	Contiguous	CA_7C	Band 7	20M	2510	20850	QPSK	1	99	Band 7	20M	2649.8	3048	16.51	16.58
			Band 7	20M	2535	21100	QPSK	1	99	Band 7	20M	2674.8	3298	16.42	16.50
			Band 7	20M	2560	21350	QPSK	1	99	Band 7	20M	2660.2	3152	16.47	16.52

n38 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		518004	519000	519996	
		Frequency (MHz)		2590.02	2595	2599.98	
40M	CP-OFDM QPSK	1	1	19.11	19.07	19.02	19.5
BW	MCS Index	Channel		517002	519000	520998	Max. Tune-up
		Frequency (MHz)		2585.01	2595	2604.99	
30M	CP-OFDM QPSK	1	1	19.03	19.11	19.08	19.5
BW	MCS Index	Channel		516504	519000	521496	Max. Tune-up
		Frequency (MHz)		2582.52	2595	2607.48	
20M	CP-OFDM QPSK	1	1	19.04	19.05	19.03	19.5

n38 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		518004	519000	519996	
		Frequency (MHz)		2590.02	2595	2599.98	
40M	DFT-s-OFDM Pi/2 BPSK	1	1	20.46	20.36	20.38	21
		1	53	20.38	20.22	20.22	21
		1	104	20.35	20.26	20.26	21
		50	0	19.85	19.81	19.72	21
		50	28	20.36	20.22	20.26	21
		50	56	19.80	19.78	19.82	21
		100	0	19.76	19.75	19.76	21
		100	0	19.76	19.75	19.76	21
	DFT-s-OFDM QPSK	1	1	20.53	20.47	20.51	21
		1	53	20.47	20.30	20.35	21
		1	104	20.39	20.36	20.32	21
		50	0	19.35	19.38	19.34	21
		50	28	20.35	20.29	20.25	21
		50	56	19.43	19.37	19.39	21
		100	0	19.53	19.37	19.36	20
		100	0	19.53	19.37	19.36	20
DFT-s-OFDM 16QAM	1	1	19.61	19.59	19.55	20	
	1	1	18.00	17.96	17.92	18.5	
	1	1	16.11	16.04	16.00	16.5	
BW	MCS Index	Channel		517002	519000	520998	Max. Tune-up
		Frequency (MHz)		2585.01	2595	2604.99	
30M	DFT-s-OFDM QPSK	1	1	20.49	20.44	20.47	21
BW	MCS Index	Channel		516504	519000	521496	Max. Tune-up
		Frequency (MHz)		2582.52	2595	2607.48	
20M	DFT-s-OFDM QPSK	1	1	20.52	20.45	20.37	21

n41 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		509202	518598	528000	
		Frequency (MHz)		2546.01	2592.99	2640	
100	CP-OFDM QPSK	1	1	19.05	19.02	19.05	19.5
BW	MCS Index	Channel		508200	518598	528996	Max. Tune-up
		Frequency (MHz)		2541	2592.99	2644.98	
90M	CP-OFDM QPSK	1	1	18.99	19.04	19.10	19.5
BW	MCS Index	Channel		507204	518598	529998	Max. Tune-up
		Frequency (MHz)		2536.02	2592.99	2649.99	
80M	CP-OFDM QPSK	1	1	19.03	19.09	19.07	19.5
BW	MCS Index	Channel		505200	518598	531996	Max. Tune-up
		Frequency (MHz)		2526	2592.99	2659.98	
60M	CP-OFDM QPSK	1	1	19.00	19.01	19.01	19.5
BW	MCS Index	Channel		504204	518598	532998	Max. Tune-up
		Frequency (MHz)		2521.02	2592.99	2664.99	
50M	CP-OFDM QPSK	1	1	18.97	18.95	19.04	19.5
BW	MCS Index	Channel		503202	518598	534000	Max. Tune-up
		Frequency (MHz)		2516.01	2592.99	2670	
40M	CP-OFDM QPSK	1	1	19.01	18.97	19.05	19.5
BW	MCS Index	Channel		502200	518598	534996	Max. Tune-up
		Frequency (MHz)		2511	2592.99	2674.98	
30M	CP-OFDM QPSK	1	1	19.08	18.99	19.02	19.5
BW	MCS Index	Channel		501204	518598	535998	Max. Tune-up
		Frequency (MHz)		2506.02	2592.99	2679.99	
20M	CP-OFDM QPSK	1	1	19.05	19.00	19.03	19.5

n41 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		509202	518598	528000	
		Frequency (MHz)		2546.01	2592.99	2640	
100M	DFT-s-OFDM Pi/2 BPSK	1	1	20.53	20.43	20.40	21
		1	137	20.32	20.17	20.11	21
		1	271	20.20	20.04	20.09	21
		135	0	19.95	19.79	19.69	21
		135	69	20.30	20.22	20.22	21
		135	138	19.81	19.63	19.63	21
		270	0	19.85	19.72	19.68	21
		270	0	19.85	19.72	19.68	21
	DFT-s-OFDM QPSK	1	1	20.54	20.50	20.44	21
		1	137	20.47	20.29	20.32	21
		1	271	20.18	20.17	20.07	21
		135	0	19.40	19.31	19.31	21
		135	69	20.33	20.31	20.19	21
		135	138	19.21	19.11	19.16	21
		270	0	19.34	19.24	19.19	20
		270	0	19.34	19.24	19.19	20
DFT-s-OFDM 16QAM	1	1	19.56	19.51	19.53	20	
	1	1	18.07	18.02	18.05	18.5	
	1	1	16.08	16.05	16.07	16.5	
DFT-s-OFDM 64QAM	1	1	18.07	18.02	18.05	18.5	
	1	1	16.08	16.05	16.07	16.5	
	1	1	16.08	16.05	16.07	16.5	
BW	MCS Index	Channel		508200	518598	528996	Max. Tune-up
		Frequency (MHz)		2541	2592.99	2644.98	
90M	DFT-s-OFDM QPSK	1	1	20.48	20.44	20.42	21
BW	MCS Index	Channel		507204	518598	529998	Max. Tune-up
		Frequency (MHz)		2536.02	2592.99	2649.99	
80M	DFT-s-OFDM QPSK	1	1	20.52	20.45	20.46	21
BW	MCS Index	Channel		505200	518598	531996	Max. Tune-up
		Frequency (MHz)		2526	2592.99	2659.98	
60M	DFT-s-OFDM QPSK	1	1	20.47	20.44	20.33	21
BW	MCS Index	Channel		504204	518598	532998	Max. Tune-up
		Frequency (MHz)		2521.02	2592.99	2664.99	
50M	DFT-s-OFDM QPSK	1	1	20.44	20.47	20.34	21
BW	MCS Index	Channel		503202	518598	534000	Max. Tune-up
		Frequency (MHz)		2516.01	2592.99	2670	
40M	DFT-s-OFDM QPSK	1	1	20.50	20.39	20.37	21
BW	MCS Index	Channel		502200	518598	534996	Max. Tune-up
		Frequency (MHz)		2511	2592.99	2674.98	
30M	DFT-s-OFDM QPSK	1	1	20.41	20.42	20.32	21
BW	MCS Index	Channel		501204	518598	535998	Max. Tune-up
		Frequency (MHz)		2506.02	2592.99	2679.99	
20M	DFT-s-OFDM QPSK	1	1	20.42	20.45	20.29	21

n48(SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		638000	641666	645332	
		Frequency (MHz)		3570	3624.99	3679.98	
40M	CP-OFDM QPSK	1	1	19.79	19.82	19.80	20
BW	MCS Index	Channel		637334	641666	646000	Max. Tune-up
		Frequency (MHz)		3560.01	3624.99	3690	
20M	CP-OFDM QPSK	1	1	19.76	19.80	19.82	20
BW	MCS Index	Channel		637000	641666	646332	Max. Tune-up
		Frequency (MHz)		3555	3624.99	3694.98	
10M	CP-OFDM QPSK	1	1	19.73	19.78	19.78	20

n48 (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		638000	641666	645332	
		Frequency (MHz)		3570	3624.99	3679.98	
40M	DFT-s-OFDM Pi/2 BPSK	1	1	21.24	21.29	21.25	21.5
		1	53	21.09	21.14	21.11	21.5
		1	104	21.03	21.19	21.16	21.5
		50	0	20.70	20.79	20.72	21.5
		50	28	20.98	21.12	21.06	21.5
		50	56	20.64	20.74	20.76	21.5
	DFT-s-OFDM QPSK	100	0	20.63	20.75	20.69	21.5
		1	1	21.27	21.34	21.33	21.5
		1	53	21.00	21.07	21.07	21.5
		1	104	21.00	21.19	21.09	21.5
		50	0	20.14	20.16	20.25	21.5
		50	28	21.05	21.19	21.13	21.5
	DFT-s-OFDM 16QAM	50	56	20.13	20.27	20.23	21.5
		100	0	20.09	20.12	20.12	20.5
		1	1	20.50	20.53	20.50	21
	DFT-s-OFDM 64QAM	1	1	19.02	19.04	19.00	19.5
		1	1	17.11	17.19	17.08	17.5
	BW	MCS Index	Channel		637334	641666	646000
Frequency (MHz)			3560.01	3624.99	3690		
20M	DFT-s-OFDM QPSK	1	1	21.22	21.30	21.29	21.5
BW	MCS Index	Channel		637000	641666	646332	Max. Tune-up
		Frequency (MHz)		3555	3624.99	3694.98	
10M	DFT-s-OFDM QPSK	1	1	21.26	21.27	21.24	21.5

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	CP-OFDM QPSK	1	1	16.75	16.71	16.70	17
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		Frequency (MHz)		1725	1745	1765	
30M	CP-OFDM QPSK	1	1	16.81	16.73	16.66	17
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	CP-OFDM QPSK	1	1	16.77	16.77	16.59	17
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	CP-OFDM QPSK	1	1	16.78	16.69	16.78	17
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	CP-OFDM QPSK	1	1	16.71	16.71	16.72	17
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	CP-OFDM QPSK	1	1	16.85	16.74	16.60	17

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	DFT-s-OFDM Pi/2 BPSK	1	1	18.23	18.09	18.18	18.5
		1	108	18.22	18.09	18.20	18.5
		1	214	18.26	18.17	18.20	18.5
		108	0	17.66	17.58	17.57	18.5
		108	54	18.24	18.14	18.23	18.5
		108	108	17.83	17.69	17.78	18.5
	DFT-s-OFDM QPSK	216	0	17.78	17.65	17.76	18.5
		1	1	18.34	18.17	18.33	18.5
		1	108	18.31	18.23	18.32	18.5
		1	214	18.19	18.21	18.30	18.5
		108	0	17.18	17.10	17.19	18.5
		108	54	18.29	18.21	18.27	18.5
	DFT-s-OFDM 16QAM	108	108	17.36	17.22	17.31	18.5
		216	0	17.33	17.20	17.31	17.5
		1	1	17.55	17.58	17.56	18
	DFT-s-OFDM 64QAM	1	1	16.00	16.01	16.03	16.5
		1	1	13.85	13.88	13.91	14.5
	BW	MCS Index	Channel		345000	349000	353000
Frequency (MHz)			1725	1745	1765		
30M	DFT-s-OFDM QPSK	1	1	18.29	18.21	18.30	18.5
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	DFT-s-OFDM QPSK	1	1	18.23	18.23	18.26	18.5
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	DFT-s-OFDM QPSK	1	1	18.27	18.16	18.17	18.5
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	DFT-s-OFDM QPSK	1	1	18.30	18.19	18.22	18.5
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	DFT-s-OFDM QPSK	1	1	18.29	18.22	18.26	18.5

n77 Part27Q (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset			Mid	Max. Tune-up (dBm)
		Channel				633334	
		Frequency (MHz)				3500.01	
100M	CP-OFDM QPSK	1	1			19.11	19.5
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	19.00	19.02	19.08	19.5
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	19.01	19.07	19.00	19.5
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	19.06	19.03	18.99	19.5
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	19.02	19.12	19.02	19.5
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	19.03	19.08	19.05	19.5
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	19.09	19.02	19.01	19.5

n77 Part27Q (SCS 30 kHz)									
BW	MCS Index	RB Size	RB Offset			Mid	Max. Tune-up (dBm)		
		Channel				633334			
		Frequency (MHz)				3500.01			
100M	DFT-s-OFDM P/2 BPSK	1	1			20.52	21		
		1	137			20.22	21		
		1	271			20.31	21		
		135	0			19.86	21		
		135	69			20.20	21		
		135	138			19.81	21		
		270	0			19.81	21		
		1	1			20.56	21		
		1	137			20.13	21		
		1	271			20.24	21		
	DFT-s-OFDM QPSK	135	0			19.68	21		
		135	69			20.09	21		
		135	138			19.41	21		
		270	0			19.38	20		
		DFT-s-OFDM 16QAM	1	1			19.47	20	
		DFT-s-OFDM 64QAM	1	1			18.00	18.5	
		DFT-s-OFDM 256QAM	1	1			15.59	16.5	
		BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
				Frequency (MHz)		3490.02	3500.01	3510	
		80M	DFT-s-OFDM QPSK	1	1	20.43	20.52	20.44	21
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up		
		Frequency (MHz)		3480	3500.01	3519.99			
60M	DFT-s-OFDM QPSK	1	1	20.41	20.54	20.49	21		
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up		
		Frequency (MHz)		3475.02	3500.01	3524.97			
50M	DFT-s-OFDM QPSK	1	1	20.45	20.51	20.40	21		
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up		
		Frequency (MHz)		3470.01	3500.01	3529.98			
40M	DFT-s-OFDM QPSK	1	1	20.39	20.49	20.37	21		
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up		
		Frequency (MHz)		3465.03	3500.01	3534.96			
30M	DFT-s-OFDM QPSK	1	1	20.35	20.53	20.43	21		
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up		
		Frequency (MHz)		3460.02	3500.01	3540			
20M	DFT-s-OFDM QPSK	1	1	20.32	20.45	20.47	21		

n77 Part27O (SCS 30 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		650000	656000	662000	
		Frequency (MHz)		3750	3840	3930	
100M	CP-OFDM QPSK	1	1	18.95	18.99	19.02	19.5
BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up
		Frequency (MHz)		3740.01	3840	3939.99	
80M	CP-OFDM QPSK	1	1	18.99	19.02	19.00	19.5
BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up
		Frequency (MHz)		3730.02	3840	3949.98	
60M	CP-OFDM QPSK	1	1	18.97	19.03	18.95	19.5
BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up
		Frequency (MHz)		3725.04	3840	3954.99	
50M	CP-OFDM QPSK	1	1	19.01	19.01	19.07	19.5
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up
		Frequency (MHz)		3720	3840	3960	
40M	CP-OFDM QPSK	1	1	18.95	18.97	19.03	19.5
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up
		Frequency (MHz)		3715.05	3840	3964.98	
30M	CP-OFDM QPSK	1	1	19.03	18.93	19.05	19.5
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up
		Frequency (MHz)		3710.01	3840	3969.99	
20M	CP-OFDM QPSK	1	1	19.00	19.02	18.97	19.5

n77 Part27O (SCS 30 kHz)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)		
		Channel		650000	656000	662000			
		Frequency (MHz)		3750	3840	3930			
100M	DFT-s-OFDM P/2 BPSK	1	1	20.20	20.32	20.36	21		
		1	137	20.32	20.44	20.48	21		
		1	271	20.26	20.38	20.42	21		
		135	0	19.80	19.92	19.96	21		
		135	69	20.33	20.45	20.49	21		
		135	138	19.79	19.91	19.95	21		
		270	0	19.82	19.94	19.98	21		
		1	1	20.41	20.47	20.58	21		
		1	137	20.42	20.44	20.58	21		
		1	271	20.31	20.49	20.46	21		
	DFT-s-OFDM QPSK	135	0	19.32	19.44	19.48	21		
		135	69	20.33	20.45	20.49	21		
		135	138	19.32	19.44	19.48	21		
		270	0	19.33	19.45	19.49	20		
		DFT-s-OFDM 16QAM	1	1	19.33	19.41	19.45	20	
		DFT-s-OFDM 64QAM	1	1	18.00	17.98	18.02	18.5	
		DFT-s-OFDM 256QAM	1	1	15.56	15.61	15.66	16.5	
		BW	MCS Index	Channel		649334	656000	662666	Max. Tune-up
				Frequency (MHz)		3740.01	3840	3939.99	
		80M	DFT-s-OFDM QPSK	1	1	20.37	20.42	20.49	21
BW	MCS Index	Channel		648668	656000	663332	Max. Tune-up		
		Frequency (MHz)		3730.02	3840	3949.98			
60M	DFT-s-OFDM QPSK	1	1	20.35	20.39	20.44	21		
BW	MCS Index	Channel		648336	656000	663666	Max. Tune-up		
		Frequency (MHz)		3725.04	3840	3954.99			
50M	DFT-s-OFDM QPSK	1	1	20.32	20.43	20.47	21		
BW	MCS Index	Channel		648000	656000	664000	Max. Tune-up		
		Frequency (MHz)		3720	3840	3960			
40M	DFT-s-OFDM QPSK	1	1	20.39	20.45	20.44	21		
BW	MCS Index	Channel		647670	656000	664332	Max. Tune-up		
		Frequency (MHz)		3715.05	3840	3964.98			
30M	DFT-s-OFDM QPSK	1	1	20.33	20.35	20.49	21		
BW	MCS Index	Channel		647334	656000	664666	Max. Tune-up		
		Frequency (MHz)		3710.01	3840	3969.99			
20M	DFT-s-OFDM QPSK	1	1	20.38	20.33	20.51	21		

n78 (SCS 30 kHz)								
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)	
		Channel			Mid			
		Frequency (MHz)			3500.01			
100M	CP-OFDM QPSK	1	1		19.07		19.5	
BW	MCS Index	Channel			633000	633334	633666	Max. Tune-up
		Frequency (MHz)			3495	3500.01	3504.99	
90M	CP-OFDM QPSK	1	1	19.02	19.06	19.04	19.5	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up
		Frequency (MHz)			3490.02	3500.01	3510	
80M	CP-OFDM QPSK	1	1	18.96	19.01	19.01	19.5	
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up
		Frequency (MHz)			3480	3500.01	3519.99	
60M	CP-OFDM QPSK	1	1	18.98	19.09	18.99	19.5	
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up
		Frequency (MHz)			3475.02	3500.01	3524.97	
50M	CP-OFDM QPSK	1	1	19.00	19.08	19.03	19.5	
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up
		Frequency (MHz)			3470.01	3500.01	3529.98	
40M	CP-OFDM QPSK	1	1	18.97	18.97	18.97	19.5	
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up
		Frequency (MHz)			3465.03	3500.01	3534.96	
30M	CP-OFDM QPSK	1	1	19.03	19.03	18.98	19.5	
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up
		Frequency (MHz)			3460.02	3500.01	3540	
20M	CP-OFDM QPSK	1	1	19.01	19.01	18.99	19.5	

n78 (SCS 30 kHz)										
BW	MCS Index	RB Size	RB Offset				Max. Tune-up (dBm)			
		Channel			Mid					
		Frequency (MHz)			3500.01					
100M	DFT-s-OFDM Pi/2 BPSK	1	1		20.42		21			
		1	137		20.19		21			
		1	271		20.11		21			
		135	0		19.80		21			
		135	69		20.20		21			
		135	138		19.73		21			
		270	0		19.71		21			
		1	1		20.45		21			
		1	137		20.20		21			
		1	271		20.09		21			
	DFT-s-OFDM QPSK	135	0		19.52		21			
		135	69		20.32		21			
		135	138		19.30		21			
		270	0		19.30		20			
		DFT-s-OFDM 16QAM	1	1		19.29		20		
		DFT-s-OFDM 64QAM	1	1		17.91		18.5		
		DFT-s-OFDM 256QAM	1	1		15.55		16.5		
		BW	MCS Index	Channel			633000	633334	633666	Max. Tune-up
				Frequency (MHz)			3495	3500.01	3504.99	
		90M	DFT-s-OFDM QPSK	1	1	20.40	20.43	20.39	21	
BW	MCS Index	Channel			632668	633334	634000	Max. Tune-up		
		Frequency (MHz)			3490.02	3500.01	3510			
80M	DFT-s-OFDM QPSK	1	1	20.35	20.39	20.44	21			
BW	MCS Index	Channel			632000	633334	634666	Max. Tune-up		
		Frequency (MHz)			3480	3500.01	3519.99			
60M	DFT-s-OFDM QPSK	1	1	20.37	20.44	20.42	21			
BW	MCS Index	Channel			631668	633334	634998	Max. Tune-up		
		Frequency (MHz)			3475.02	3500.01	3524.97			
50M	DFT-s-OFDM QPSK	1	1	20.32	20.37	20.38	21			
BW	MCS Index	Channel			631334	633334	635332	Max. Tune-up		
		Frequency (MHz)			3470.01	3500.01	3529.98			
40M	DFT-s-OFDM QPSK	1	1	20.39	20.38	20.35	21			
BW	MCS Index	Channel			631002	633334	635664	Max. Tune-up		
		Frequency (MHz)			3465.03	3500.01	3534.96			
30M	DFT-s-OFDM QPSK	1	1	20.41	20.41	20.37	21			
BW	MCS Index	Channel			630668	633334	636000	Max. Tune-up		
		Frequency (MHz)			3460.02	3500.01	3540			
20M	DFT-s-OFDM QPSK	1	1	20.40	20.44	20.39	21			

WWAN Reduce Power 3

		LTE Band 2 (Ant1)											
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tx Power (dBm)					
		Channel	Channel	1980	1980	1990							
		Channel											
		Frequency (MHz)											
OPK#	10M	1	0	19.84	19.83	19.77	0	21					
		1	50	19.81	19.50	19.68	0	21					
		1	99	19.79	19.69	19.63	0	21					
		50	0	19.03	18.69	18.63	1	20					
		50	25	19.12	18.84	18.87	1	20					
	60M	50	50	18.93	18.74	18.89	1	20					
		100	0	19.16	18.98	18.91	1	20					
		1	0	19.11	18.95	18.98	1	20					
		1	50	19.03	18.81	18.90	1	20					
		1	99	19.11	18.83	18.86	1	20					
		20M	100M	50	0	17.92	17.86	2	19				
				50	25	18.07	17.76	17.94	2	19			
				50	50	17.86	17.85	17.79	2	19			
				100	0	18.06	17.77	17.95	2	19			
				1	0	18.08	17.98	18.07	2	19			
			60M	1	50	17.88	17.72	17.60	2	19			
				1	99	17.91	17.81	17.93	2	19			
				50	0	17.13	16.91	16.91	3	18			
				50	25	16.32	16.25	16.07	3	18			
				50	50	16.46	16.30	16.36	3	18			
3M	OPK#			1	0	17.05	16.77	16.86	3	18			
				1	50	16.98	16.98	16.98	3	18			
				1	99	16.99	16.99	16.99	3	18			
				50	0	16.82	16.85	16.86	3	18			
				50	25	16.86	16.89	16.89	3	18			
	60M			50	50	16.46	16.30	16.36	3	18			
				100	0	17.05	16.77	16.86	3	18			
				1	0	17.05	16.77	16.86	3	18			
				1	50	16.98	16.98	16.98	3	18			
				1	99	16.99	16.99	16.99	3	18			

		LTE Band 4 (Ant1)											
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tx Power (dBm)					
		Channel	Channel	2085	2075	2080							
		Channel											
		Frequency (MHz)											
OPK#	10M	1	0	19.78	19.90	19.99	0	21					
		1	50	19.63	19.75	19.84	0	21					
		1	99	19.97	19.92	19.92	0	21					
		50	0	18.60	18.68	18.69	1	20					
		50	25	18.73	18.85	18.10	1	20					
	60M	50	50	18.82	18.86	18.93	1	20					
		100	0	18.86	18.92	18.92	1	20					
		1	0	19.08	19.16	19.27	1	20					
		1	50	18.89	19.07	19.20	1	20					
		1	99	19.02	19.00	19.29	1	20					
		20M	100M	50	0	17.86	18.00	2	19				
				50	25	17.86	17.90	18.13	2	19			
				50	50	17.84	17.86	17.95	2	19			
				100	0	17.74	17.94	18.07	2	19			
				1	0	17.86	17.96	18.15	2	19			
			60M	1	50	18.05	18.11	18.38	2	19			
				1	99	18.15	18.23	18.28	2	19			
				50	0	16.69	16.77	16.96	3	18			
				50	25	16.87	16.99	17.08	3	18			
				50	50	16.81	16.79	17.08	3	18			

		LTE Band 7 (Ant1)									
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tx Power (dBm)			
		Channel	Channel	2085	2100	2100					
		Channel									
		Frequency (MHz)									
OPK#	10M	1	0	19.07	20.02	19.95	0	21			
		1	50	19.98	19.93	19.94	0	21			
		1	99	20.08	20.01	20.04	0	21			
		50	0	19.16	19.16	19.14	1	20			
		50	25	19.19	19.13	19.18	1	20			
	60M	50	50	19.21	19.11	19.17	1	20			
		100	0	19.16	19.16	19.14	1	20			
		1	0	19.21	19.11	19.17	1	20			
		1	50	19.07	19.07	19.05	1	20			
		1	99	19.22	19.15	19.18	1	20			

BW	MCS Index	LTE Band 41 (2496 - 2690MHz) (Ant1)										
		RB Size	RB Offset	Low	Mid	High Mid	High	3GPP MPR (dB)	Max. Time-upt. (dBm)			
				4290	4590	4890	4990					
20M	QPSK	Channel	3930	4194	4458	4722	4986					
		Frequency (MHz)	2496	2544	2592	2640	2688					
		1	0	19.95	19.90	19.95	19.91	19.94	0	21		
		1	50	19.45	19.58	19.26	19.05	19.08	0	21		
		1	99	19.26	19.69	19.89	19.16	19.07	0	21		
		50	0	19.60	18.81	18.63	18.40	18.29	1	20		
	16QAM	50	25	18.82	18.91	18.69	18.50	18.29	1	20		
		50	50	18.61	18.74	18.58	18.35	18.32	1	20		
		100	0	18.82	18.87	18.57	18.26	18.26	1	20		
		1	0	18.82	18.97	18.61	18.42	18.43	1	20		
		1	50	18.68	18.77	18.57	18.28	18.21	1	20		
		1	99	18.80	18.79	18.51	18.36	18.23	1	20		
	64QAM	50	0	18.78	18.88	18.50	18.43	18.34	3	18		
		50	25	17.70	17.89	17.61	17.42	17.35	2	19		
		50	50	17.73	17.78	17.60	17.43	17.34	2	19		
		100	0	17.98	17.98	17.57	17.48	17.28	2	19		
		1	0	17.99	17.96	17.28	17.13	17.08	2	19		
		1	50	17.42	17.43	17.21	17.12	16.85	2	19		
15M	QPSK	Channel	3975	4239	4503	4767	5031					
		Frequency (MHz)	2503.5	2543.5	2583.5	2623.5	2663.5					
		1	0	19.84	19.86	19.48	19.49	19.28	0	21		
		1	37	19.41	19.55	19.20	18.97	19.06	0	21		
		1	74	19.54	19.68	19.33	19.10	19.01	0	21		
		36	0	18.62	18.76	18.62	18.36	18.36	1	20		
	16QAM	36	19	18.81	18.89	18.54	18.49	18.22	1	20		
		36	39	18.53	18.67	18.56	18.30	18.30	1	20		
		75	0	18.81	18.83	18.60	18.43	18.26	1	20		
		1	0	18.79	18.86	18.66	18.55	18.41	1	20		
		1	37	18.64	18.72	18.55	18.20	18.14	1	20		
		1	74	18.54	18.74	18.46	18.38	18.31	1	20		
	64QAM	36	0	17.76	17.69	17.64	17.38	17.38	2	19		
		36	19	17.62	17.85	17.56	17.36	17.30	2	19		
		36	39	17.70	17.72	17.58	17.41	17.32	2	19		
		75	0	17.84	17.84	17.46	17.32	17.29	2	19		
		1	0	17.33	17.53	17.24	17.10	17.07	2	19		
		1	37	17.40	17.36	17.16	17.11	16.81	2	19		

BW	MCS Index	LTE Band 42 Part2Q (Ant7)										
		RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-upt. (dBm)				
				4296	4596	4896						
20M	QPSK	Channel	3462	3696	3930	4164	4398					
		Frequency (MHz)	2496	2544	2592	2640	2688					
		1	0	19.67	19.51	19.55	0	21				
		1	50	19.66	19.42	19.52	0	21				
		1	99	19.55	19.37	19.49	0	21				
		50	0	18.66	18.59	18.50	1	20				
	16QAM	50	25	18.64	18.56	18.46	1	20				
		50	50	18.57	18.43	18.49	1	20				
		100	0	18.62	18.59	18.48	1	20				
		1	0	18.63	18.55	18.59	1	20				
		1	50	18.49	18.49	18.41	1	20				
		1	99	18.52	18.28	18.38	1	20				
	64QAM	50	0	17.64	17.46	17.60	2	19				
		50	25	17.61	17.57	17.47	2	19				
		50	50	17.48	17.40	17.44	2	19				
		100	0	17.58	17.45	17.47	2	19				
		1	0	17.21	17.13	17.17	2	19				
		1	50	17.12	17.12	17.02	2	19				
15M	QPSK	Channel	3498	3732	3966	4200	4434					
		Frequency (MHz)	2508	2548	2588	2628	2668					
		1	0	19.62	19.44	19.50	0	21				
		1	37	19.64	19.34	19.50	0	21				
		1	74	19.60	19.36	19.48	0	21				
		36	0	18.62	18.54	18.45	1	20				
	16QAM	36	19	18.46	18.55	18.41	1	20				
		36	39	18.53	18.48	18.48	1	20				
		75	0	18.55	18.55	18.44	1	20				
		1	0	18.66	18.50	18.57	1	20				
		1	37	18.41	18.47	18.36	1	20				
		1	74	18.63	18.59	18.36	1	20				
	64QAM	36	0	17.46	17.40	17.32	2	19				
		36	19	17.55	17.55	17.41	2	19				
		36	39	17.41	17.35	17.42	2	19				
		75	0	17.53	17.53	17.42	2	19				
		1	0	17.14	17.08	17.15	2	19				
		1	37	17.04	17.10	16.96	2	19				

BW	MCS Index	LTE Band 42 Part96 (Ant7)										
		RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Time-upt. (dBm)				
				4398	4698	4998						
20M	QPSK	Channel	3896	4130	4364	4598	4832					
		Frequency (MHz)	2508	2548	2588	2628	2668					
		1	0	19.59	19.72	19.76	0	21				
		1	50	19.62	19.73	19.74	0	21				
		1	99	19.61	19.62	19.65	0	21				
		50	0	18.59	18.74	18.77	1	20				
	16QAM	50	25	18.65	18.64	18.61	1	20				
		50	50	18.52	18.69	18.64	1	20				
		100	0	18.62	18.59	18.74	1	20				
		1	0	18.73	18.72	18.77	1	20				
		1	50	18.53	18.68	18.71	1	20				
		1	99	18.57	18.58	18.69	1	20				
	64QAM	50	0	17.65	17.67	17.74	2	19				
		50	25	17.61	17.62	17.73	2	19				
		50	50	17.54	17.73	17.70	2	19				
		100	0	17.58	17.89	17.70	2	19				
		1	0	17.23	17.24	17.27	2	19				
		1	50	17.17	17.34	17.35	2	19				
15M	QPSK	Channel	3932	4166	4400	4634	4868					
		Frequency (MHz)	2513.5	2553.5	2593.5	2633.5	2673.5					
		1	0	19.59	19.72	19.72	0	21				
		1	37	19.59	19.72	19.72	0	21				
		1	74	19.62	19.62	19.69	0	21				
		36	0	18.53	18.72	18.75	1	20				
	16QAM	36	19	18.64	18.59	18.53	1	20				
		36	39	18.45	18.67	18.58	1	20				
		75	0	18.59	18.51	18.72	1	20				
		1	0	18.71	18.66	18.72	1	20				
		1	37	18.47	18.66	18.69	1	20				
		1	74	18.65	18.59	18.74	1	20				
	64QAM	36	0	17.50	17.60	17.69	2	19				
		36	19	17.59	17.57	17.72	2	19				
		36	39	17.56	17.56	17.68	2	19				
		75	0	17.57	17.58	17.42	2	19				
		1	0	17.21	17.19	17.22	2	19				
		1	37	17.11	17.33	17.33	2	19				

LTE Band 66 (Ant1)										
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)		
		Channel	Channel	132072	132322	132572				
		Frequency (MHz)			1720	1745	1770			
20M	QPSK	1	0	19.89	20.05	20.48	0	21		
		1	50	19.90	20.02	20.59	0	21		
		1	99	20.02	20.08	20.63	0	21		
		50	0	19.10	19.22	19.79	1	20		
		50	25	19.11	19.31	19.74	1	20		
		50	50	19.15	19.33	19.80	1	20		
	16QAM	100	0	19.14	19.20	19.65	1	20		
		1	0	19.29	19.61	20.10	1	20		
		1	50	19.50	19.58	20.11	1	20		
		1	99	19.62	19.58	20.23	1	20		
		50	0	18.45	18.61	19.10	2	19		
		50	25	18.49	18.51	19.10	2	19		
	64QAM	50	50	18.49	18.47	19.02	2	19		
		100	0	18.40	18.44	19.07	2	19		
		1	0	18.83	18.89	19.28	2	19		
		1	50	18.71	18.73	19.32	2	19		
		1	99	18.77	18.75	19.34	2	19		
		50	0	17.53	17.67	18.08	3	18		
	20M	QPSK	1	0	19.83	20.03	20.42	0	21	
			1	37	19.83	19.97	20.57	0	21	
			1	74	19.96	20.01	20.58	0	21	
			36	0	19.03	19.17	19.77	1	20	
			36	19	19.03	19.29	19.68	1	20	
			36	39	19.07	19.32	19.78	1	20	
16QAM		75	0	19.10	19.15	19.57	1	20		
		1	0	19.31	19.60	20.08	1	20		
		1	37	19.45	19.53	20.07	1	20		
		1	74	19.60	19.50	20.22	1	20		
		36	0	18.37	18.57	19.05	2	19		
		36	19	18.46	18.45	19.08	2	19		
64QAM		36	39	18.47	18.40	18.97	2	19		
		75	0	18.34	18.30	19.05	2	19		
		1	0	18.82	18.87	19.20	2	19		
		1	37	18.66	18.65	19.22	2	19		
		1	74	18.76	18.69	19.32	2	19		
		36	0	17.48	17.65	18.01	3	18		
20M		QPSK	36	19	17.50	17.40	18.12	3	18	
			36	39	17.50	17.60	17.98	3	18	
			75	0	17.44	17.34	18.06	3	18	
			16QAM	1	0	19.86	19.99	20.46	0	21
				1	24	19.88	19.94	20.58	0	21
				1	49	19.94	20.04	20.58	0	21
	25	0		19.07	19.16	19.77	1	20		
	25	12		19.09	19.24	19.69	1	20		
	25	25		19.09	19.25	19.78	1	20		
	64QAM	50	0	19.13	19.18	19.57	1	20		
		1	0	19.32	19.53	20.04	1	20		
		1	24	19.47	19.52	20.09	1	20		
		1	49	19.60	19.51	20.18	1	20		
		25	0	18.39	18.53	19.08	2	19		
		25	12	18.47	18.43	19.09	2	19		
	16QAM	25	25	18.41	18.43	18.97	2	19		
		50	0	18.38	18.36	19.06	2	19		
		1	0	18.76	18.85	19.23	2	19		
		1	24	18.68	18.67	19.26	2	19		
		1	49	18.79	18.68	19.29	2	19		
		25	0	17.47	17.59	18.06	3	18		
	64QAM	25	12	17.51	17.46	18.05	3	18		
		25	25	17.33	17.46	17.97	3	18		
		50	0	17.45	17.39	18.05	3	18		
QPSK		1	0	19.84	19.98	20.43	0	21		
		1	12	19.88	19.94	20.57	0	21		
		1	24	19.97	20.00	20.62	0	21		
	12	0	19.06	19.17	19.74	1	20			
	12	6	19.03	19.30	19.69	1	20			
	12	13	19.11	19.28	19.79	1	20			
16QAM	25	0	19.06	19.18	19.60	1	20			
	1	0	19.32	19.56	20.08	1	20			
	1	12	19.42	19.56	20.06	1	20			
	1	24	19.60	19.50	20.21	1	20			
	12	0	18.37	18.55	19.02	2	19			
	12	6	18.43	18.49	19.04	2	19			
64QAM	12	13	18.42	18.42	19.00	2	19			
	25	0	18.34	18.37	19.04	2	19			
	1	0	18.76	18.84	19.26	2	19			
	1	12	18.63	18.71	19.22	2	19			
	1	24	18.69	18.74	19.32	2	19			
	12	0	17.49	17.62	18.00	3	18			
20M	QPSK	12	6	17.44	17.47	18.11	3	18		
		12	13	17.34	17.49	17.95	3	18		
		25	0	17.40	17.40	18.04	3	18		
		16QAM	1	0	19.83	20.00	20.47	0	21	
			1	7	19.89	20.00	20.54	0	21	
			1	14	19.94	20.01	20.61	0	21	
	8		0	19.09	19.18	19.76	1	20		
	8		3	19.08	19.30	19.68	1	20		
	8		7	19.11	19.28	19.78	1	20		
	64QAM	15	0	19.08	19.18	19.62	1	20		
		1	0	19.27	19.53	20.08	1	20		
		1	7	19.42	19.54	20.06	1	20		
		1	14	19.59	19.52	20.21	1	20		
		8	0	18.44	18.56	19.02	2	19		
		8	3	18.43	18.48	19.06	2	19		
	16QAM	8	7	18.47	18.40	18.97	2	19		
		15	0	18.34	18.36	19.05	2	19		
		1	0	18.82	18.87	19.20	2	19		
		1	7	18.64	18.65	19.22	2	19		
		1	14	18.76	18.74	19.30	2	19		
		8	0	17.51	17.59	18.07	3	18		
	64QAM	8	3	17.50	17.40	18.12	3	18		
		8	7	17.36	17.53	17.99	3	18		
		15	0	17.43	17.41	18.01	3	18		
QPSK		1	0	19.81	20.01	20.43	0	21		
		1	2	19.87	19.96	20.57	0	21		
		1	5	20.00	20.01	20.58	0	21		
	3	0	19.54	19.64	20.27	0	21			
	3	1	19.60	19.79	20.16	0	21			
	3	3	19.60	19.75	20.24	0	21			
16QAM	6	0	19.13	19.14	19.63	1	20			
	1	0	19.34	19.54	20.05	1	20			
	1	2	19.48	19.50	20.09	1	20			
	1	5	19.57	19.50	20.22	1	20			
	3	0	19.41	19.56	20.05	1	20			
	3	1	19.41	19.50	20.05	1	20			
64QAM	3	3	19.45	19.42	20.01	1	20			
	6	0	18.34	18.42	19.02	2	19			
	1	0	18.76	18.84	19.26	2	19			
	1	2	18.63	18.71	19.23	2	19			
	1	5	18.75	18.67	19.32	2	19			
	3	0	18.45	18.61	19.00	2	19			
16QAM	3	1	18.46	18.46	19.07	2	19			
	3	3	18.33	18.46	19.02	2	19			
	6	0	17.42	17.37	18.02	3	18			

UL CA

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Tune up limit (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	0	0	1	20.02	21.00
		16QAM	1	99	0	0	1	19.25	20.00
		64QAM	1	99	0	0	1	18.07	19.00
21100	21298	QPSK	1	99	0	0	1	19.99	21.00
		16QAM	1	99	0	0	1	19.14	20.00
		64QAM	1	99	0	0	1	18.20	19.00
21350	21152	QPSK	1	99	0	0	1	19.91	21.00
		16QAM	1	99	0	0	1	19.14	20.00
		64QAM	1	99	0	0	1	18.00	19.00

CA_38C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	0	0	1	19.71	21.00
		16QAM	1	0	0	0	1	18.98	20.00
		64QAM	1	0	0	0	1	17.68	19.00
37901	38099	QPSK	1	0	0	0	1	19.54	21.00
		16QAM	1	0	0	0	1	18.71	20.00
		64QAM	1	0	0	0	1	17.46	19.00
38150	37952	QPSK	1	0	0	0	1	19.34	21.00
		16QAM	1	0	0	0	1	18.59	20.00
		64QAM	1	0	0	0	1	17.55	19.00

CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	1	0	0	0	1	19.78	21.00
		16QAM	1	0	0	0	1	19.00	20.00
		64QAM	1	0	0	0	1	17.45	19.00
40185	40383	QPSK	1	0	0	0	1	19.69	21.00
		16QAM	1	0	0	0	1	18.83	20.00
		64QAM	1	0	0	0	1	17.36	19.00
40620	40818	QPSK	1	0	0	0	1	19.63	21.00
		16QAM	1	0	0	0	1	18.84	20.00
		64QAM	1	0	0	0	1	17.21	19.00
41055	41253	QPSK	1	0	0	0	1	19.47	21.00
		16QAM	1	0	0	0	1	18.73	20.00
		64QAM	1	0	0	0	1	17.24	19.00
41490	41292	QPSK	1	0	0	0	1	19.13	21.00
		16QAM	1	0	0	0	1	18.23	20.00
		64QAM	1	0	0	0	1	16.83	19.00

CA_42C Part27									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
42190	42388	QPSK	1	0	0	0	1	19.41	21.00
		16QAM	1	0	0	0	1	18.64	20.00
		64QAM	1	0	0	0	1	17.14	19.00
42590	42392	QPSK	1	0	0	0	1	19.54	21.00
		16QAM	1	0	0	0	1	18.65	20.00
		64QAM	1	0	0	0	1	16.99	19.00
42990	42792	QPSK	1	0	0	0	1	19.35	21.00
		16QAM	1	0	0	0	1	18.63	20.00
		64QAM	1	0	0	0	1	17.09	19.00

CA_48C For SAR									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	1	0	0	0	1	19.49	21.00
		16QAM	1	0	0	0	1	18.74	20.00
		64QAM	1	0	0	0	1	17.23	19.00
55830	56028	QPSK	1	0	0	0	1	19.64	21.00
		16QAM	1	0	0	0	1	18.90	20.00
		64QAM	1	0	0	0	1	17.43	19.00
56150	56348	QPSK	1	0	0	0	1	19.77	21.00
		16QAM	1	0	0	0	1	18.98	20.00
		64QAM	1	0	0	0	1	17.50	19.00
56640	56442	QPSK	1	0	0	0	1	19.58	21.00
		16QAM	1	0	0	0	1	18.89	20.00
		64QAM	1	0	0	0	1	17.38	19.00

DL CA

Configure		CA List	PCC						SCC				Power		
			LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
			Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	Contiguous	CA_7C	Band 7	20M	2510	20850	QPSK	1	99	Band 7	20M	2649.8	3048	19.96	20.08
			Band 7	20M	2535	21100	QPSK	1	99	Band 7	20M	2674.8	3298	19.90	20.01
			Band 7	20M	2560	21350	QPSK	1	99	Band 7	20M	2660.2	3152	19.92	20.04

n2 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		372000	376000	380000	
		Frequency (MHz)		1850	1880	1900	
20M	CP-OFDM QPSK	1	1	18.86	18.83	18.76	19.5
BW	MCS Index	Channel		371500	376000	380500	Max. Tune-up
		Frequency (MHz)		1857.5	1880	1902.5	
15M	CP-OFDM QPSK	1	1	18.77	18.88	18.70	19.5
BW	MCS Index	Channel		371000	376000	381000	Max. Tune-up
		Frequency (MHz)		1855	1880	1905	
10M	CP-OFDM QPSK	1	1	18.79	18.83	18.75	19.5
BW	MCS Index	Channel		370500	376000	381500	Max. Tune-up
		Frequency (MHz)		1852.5	1880	1907.5	
5M	CP-OFDM QPSK	1	1	18.75	18.79	18.68	19.5

n2 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		372000	376000	380000	
		Frequency (MHz)		1860	1880	1900	
20M	DFT-s-OFDM P1/2 BPSK	1	1	20.37	20.39	20.34	21
		1	53	20.39	20.31	20.34	21
		1	104	20.34	20.28	20.29	21
		50	0	19.93	19.97	19.93	21
		50	28	20.38	20.42	20.32	21
		50	56	19.88	19.91	19.87	21
	100	0	19.90	20.04	19.87	21	
	DFT-s-OFDM QPSK	1	1	20.49	20.52	20.49	21
		1	53	20.39	20.50	20.38	21
		1	104	20.39	20.42	20.39	21
		50	0	19.40	19.48	19.33	21
		50	28	20.40	20.49	20.44	21
		50	56	19.38	19.47	19.41	21
	100	0	19.39	19.47	19.38	20	
	DFT-s-OFDM 16QAM	1	1	19.66	19.69	19.70	20
DFT-s-OFDM 64QAM	1	1	18.00	18.16	17.98	18.5	
DFT-s-OFDM 256QAM	1	1	15.82	15.89	15.82	16.5	
BW	MCS Index	Channel		371500	376000	380500	Max. Tune-up
		Frequency (MHz)		1857.5	1880	1902.5	
15M	DFT-s-OFDM QPSK	1	1	20.41	20.43	20.36	21
BW	MCS Index	Channel		371000	376000	381000	Max. Tune-up
		Frequency (MHz)		1855	1880	1905	
10M	DFT-s-OFDM QPSK	1	1	20.39	20.38	20.40	21
BW	MCS Index	Channel		370500	376000	381500	Max. Tune-up
		Frequency (MHz)		1852.5	1880	1907.5	
5M	DFT-s-OFDM QPSK	1	1	20.32	20.40	20.36	21

n7 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		502000	507000	512000	
		Frequency (MHz)		2510	2535	2560	
20M	CP-OFDM QPSK	1	1	18.91	19.00	18.73	19.5
BW	MCS Index	Channel		501500	507000	512500	Max. Tune-up
		Frequency (MHz)		2507.5	2535	2562.5	
15M	CP-OFDM QPSK	1	1	18.89	18.97	18.70	19.5
BW	MCS Index	Channel		501000	507000	513000	Max. Tune-up
		Frequency (MHz)		2505	2535	2565	
10M	CP-OFDM QPSK	1	1	18.88	18.98	18.67	19.5
BW	MCS Index	Channel		500500	507000	513500	Max. Tune-up
		Frequency (MHz)		2502.5	2535	2567.5	
5M	CP-OFDM QPSK	1	1	18.94	18.97	18.75	19.5

n7 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		502000	507000	512000	
		Frequency (MHz)		2510	2535	2560	
20M	DFT-s-OFDM P1/2 BPSK	1	1	20.39	20.38	20.28	21
		1	53	20.35	20.29	20.13	21
		1	104	20.27	20.37	20.19	21
		50	0	19.93	19.87	19.75	21
		50	28	20.33	20.39	20.18	21
		50	56	19.74	19.84	19.63	21
	100	0	19.89	19.93	19.74	21	
	DFT-s-OFDM QPSK	1	1	20.48	20.47	20.32	21
		1	53	20.27	20.36	20.15	21
		1	104	20.27	20.35	20.08	21
		50	0	19.40	19.45	19.37	21
		50	28	20.38	20.42	20.25	21
		50	56	19.29	19.38	19.20	21
	100	0	19.38	19.43	19.27	20	
	DFT-s-OFDM 16QAM	1	1	19.37	19.52	19.27	20
DFT-s-OFDM 64QAM	1	1	18.14	18.11	17.92	18.5	
DFT-s-OFDM 256QAM	1	1	15.61	15.76	15.51	16.5	
BW	MCS Index	Channel		501500	507000	512500	Max. Tune-up
		Frequency (MHz)		2507.5	2535	2562.5	
15M	DFT-s-OFDM QPSK	1	1	20.32	20.40	20.23	21
BW	MCS Index	Channel		501000	507000	513000	Max. Tune-up
		Frequency (MHz)		2505	2535	2565	
10M	DFT-s-OFDM QPSK	1	1	20.29	20.37	20.29	21
BW	MCS Index	Channel		500500	507000	513500	Max. Tune-up
		Frequency (MHz)		2502.5	2535	2567.5	
5M	DFT-s-OFDM QPSK	1	1	20.34	20.43	20.35	21

n25 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		374000	376500	379000	
		Frequency (MHz)		1870	1882.5	1895	
40M	CP-OFDM QPSK	1	1	19.07	19.11	19.17	19.5
BW	MCS Index	Channel		373000	376500	380000	Max. Tune-up
		Frequency (MHz)		1865	1882.5	1900	
30M	CP-OFDM QPSK	1	1	19.09	19.10	19.15	19.5
BW	MCS Index	Channel		372500	376500	380500	Max. Tune-up
		Frequency (MHz)		1862.5	1882.5	1902.5	
25M	CP-OFDM QPSK	1	1	19.01	19.09	19.10	19.5
BW	MCS Index	Channel		372000	376500	381000	Max. Tune-up
		Frequency (MHz)		1860	1882.5	1905	
20M	CP-OFDM QPSK	1	1	19.03	19.01	19.04	19.5
BW	MCS Index	Channel		371500	376500	381500	Max. Tune-up
		Frequency (MHz)		1857.5	1882.5	1907.5	
15M	CP-OFDM QPSK	1	1	18.95	18.91	18.99	19.5
BW	MCS Index	Channel		371000	376500	382000	Max. Tune-up
		Frequency (MHz)		1855	1882.5	1910	
10M	CP-OFDM QPSK	1	1	18.81	19.04	18.90	19.5
BW	MCS Index	Channel		370500	376500	382500	Max. Tune-up
		Frequency (MHz)		1852.5	1882.5	1912.5	
5M	CP-OFDM QPSK	1	1	18.75	18.92	18.88	19.5

n25 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		374000	376500	379000	
		Frequency (MHz)		1870	1882.5	1895	
40M	DFT-s-OFDM P/2 BPSK	1	1	20.50	20.51	20.48	21
		1	108	20.62	20.60	20.56	21
		1	214	20.61	20.55	20.52	21
		108	0	20.05	20.03	20.12	21
		108	54	20.53	20.51	20.51	21
		108	108	20.07	20.11	20.16	21
	DFT-s-OFDM QPSK	216	0	20.09	20.06	20.11	21
		1	1	20.62	20.66	20.64	21
		1	108	20.50	20.60	20.60	21
		1	214	20.62	20.60	20.61	21
		108	0	19.54	19.58	19.63	21
		108	54	20.54	20.61	20.57	21
	DFT-s-OFDM 16QAM	108	108	19.57	19.64	19.66	21
		216	0	19.56	19.63	19.62	20
DFT-s-OFDM 64QAM	1	1	19.40	19.44	19.53	20	
DFT-s-OFDM 256QAM	1	1	18.12	18.28	18.21	18.5	
DFT-s-OFDM 256QAM	1	1	16.24	16.35	16.34	16.5	
BW	MCS Index	Channel		373000	376500	380000	Max. Tune-up
		Frequency (MHz)		1865	1882.5	1900	
30M	DFT-s-OFDM QPSK	1	1	20.60	20.63	20.53	21
BW	MCS Index	Channel		372500	376500	380500	Max. Tune-up
		Frequency (MHz)		1862.5	1882.5	1902.5	
25M	DFT-s-OFDM QPSK	1	1	20.53	20.51	20.39	21
BW	MCS Index	Channel		372000	376500	381000	Max. Tune-up
		Frequency (MHz)		1860	1882.5	1905	
20M	DFT-s-OFDM QPSK	1	1	20.45	20.50	20.59	21
BW	MCS Index	Channel		371500	376500	381500	Max. Tune-up
		Frequency (MHz)		1857.5	1882.5	1907.5	
15M	DFT-s-OFDM QPSK	1	1	20.32	20.43	20.53	21
BW	MCS Index	Channel		371000	376500	382000	Max. Tune-up
		Frequency (MHz)		1855	1882.5	1910	
10M	DFT-s-OFDM QPSK	1	1	20.49	20.54	20.52	21
BW	MCS Index	Channel		370500	376500	382500	Max. Tune-up
		Frequency (MHz)		1852.5	1882.5	1912.5	
5M	DFT-s-OFDM QPSK	1	1	20.45	20.45	20.43	21

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	CP-OFDM QPSK	1	1	19.22	19.06	19.11	19.5
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		Frequency (MHz)		1725	1745	1765	
30M	CP-OFDM QPSK	1	1	19.12	19.05	19.12	19.5
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	CP-OFDM QPSK	1	1	19.11	19.07	19.10	19.5
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	CP-OFDM QPSK	1	1	19.04	19.08	19.06	19.5
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	CP-OFDM QPSK	1	1	19.02	19.12	18.98	19.5
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	CP-OFDM QPSK	1	1	19.20	19.19	19.07	19.5

n66 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	Max. Tune-up (dBm)
		Channel		346000	349000	352000	
		Frequency (MHz)		1730	1745	1760	
40M	DFT-s-OFDM P/2 BPSK	1	1	20.69	20.52	20.63	21
		1	108	20.64	20.53	20.69	21
		1	214	20.73	20.65	20.62	21
		108	0	20.04	20.04	20.05	21
		108	54	20.72	20.62	20.73	21
		108	108	20.25	20.18	20.20	21
	DFT-s-OFDM QPSK	216	0	20.18	20.12	20.24	21
		1	1	20.76	20.68	20.75	21
		1	108	20.74	20.68	20.73	21
		1	214	20.64	20.64	20.72	21
		108	0	19.59	19.61	19.59	21
		108	54	20.75	20.65	20.72	21
	DFT-s-OFDM 16QAM	108	108	19.78	19.66	19.73	21
		216	0	19.79	19.67	19.73	20
DFT-s-OFDM 64QAM	1	1	19.62	19.61	19.54	20	
DFT-s-OFDM 256QAM	1	1	16.20	16.28	16.22	16.5	
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		Frequency (MHz)		1725	1745	1765	
30M	DFT-s-OFDM QPSK	1	1	20.71	20.70	20.74	21
BW	MCS Index	Channel		344000	349000	354000	Max. Tune-up
		Frequency (MHz)		1720	1745	1770	
20M	DFT-s-OFDM QPSK	1	1	20.67	20.66	20.73	21
BW	MCS Index	Channel		343500	349000	354500	Max. Tune-up
		Frequency (MHz)		1717.5	1745	1772.5	
15M	DFT-s-OFDM QPSK	1	1	20.66	20.60	20.59	21
BW	MCS Index	Channel		343000	349000	355000	Max. Tune-up
		Frequency (MHz)		1715	1745	1775	
10M	DFT-s-OFDM QPSK	1	1	20.60	20.61	20.57	21
BW	MCS Index	Channel		342500	349000	355500	Max. Tune-up
		Frequency (MHz)		1712.5	1745	1777.5	
5M	DFT-s-OFDM QPSK	1	1	20.70	20.64	20.62	21



Appendix E. Simultaneous Multi-band Transmission Evaluation

The simultaneous transmission evaluation and analysis is shown as below.

Simultaneous Transmission analysis Hotspot SAR

Table with columns for Wwan Band, Exposure Position, Wwan, 2.4GHz Wlan, 2.4GHz Wlan, 5G Wlan, 5G Wlan, 5G Wlan, Bluetooth, BLE, and Summed SAR (W/kg) for various frequencies (1+2+5, 1+4, 1+5+8, 1+5+8, 1+7+9, 1+5+9, 1+5+9). Rows are categorized by GSM, GSM1900, WCDMA II, WCDMA IV, WCDMA V, LTE Band 5, LTE Band 7, LTE Band 12/17, LTE Band 13, LTE Band 14, LTE Band 25/2, LTE Band 26, LTE Band 30, LTE Band 41/38, LTE Band 40/43/42, and LTE Band 66/4.



Appendix F. Photographs of EUT and Setup