

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

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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
					(MHz)				Offset			(MHz)		(dBm)	(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	380000	
		Frequency (MHz)		1860	1880	1900	
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	380000	
		Frequency (MHz)		1860	1880	1900	
20M	DFT-s-OFDM P1/2 BPSK	1	1	23.12	23.16	23.09	24
		1	53	23.11	23.09	23.06	24
		1	104	23.09	23.06	23.00	24
		50	0	22.67	22.72	22.68	24
		50	28	23.16	23.13	23.07	24
		50	56	22.62	22.66	22.58	24
		100	0	22.66	22.76	22.62	24
	DFT-s-OFDM QPSK	1	1	23.26	23.27	23.21	24
		1	53	23.17	23.24	23.13	24
		1	104	23.11	23.20	23.11	24
		50	0	22.18	22.24	22.11	24
		50	28	23.16	23.21	23.20	24
		50	56	22.15	22.22	22.13	24
		100	0	22.15	22.24	22.13	23
	DFT-s-OFDM 16QAM	1	1	22.43	22.44	22.42	23
	DFT-s-OFDM 64QAM	1	1	20.78	20.88	20.74	21.5
	DFT-s-OFDM 256QAM	1	1	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	167800	
		Frequency (MHz)			834	836.5	839	
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	167800	
		Frequency (MHz)		834	836.5	839	
20M	DFT-s-OFDM P1/2 BPSK	1	1	22.79	22.83	22.71	24
		1	53	22.85	22.83	22.75	24
		1	104	22.78	22.75	22.64	24
		50	0	22.31	22.36	22.27	24
		50	28	22.81	22.78	22.67	24
		50	56	22.22	22.26	22.13	24
		100	0	22.28	22.38	22.19	24
	DFT-s-OFDM QPSK	1	1	22.84	22.89	22.78	24
		1	53	22.80	22.87	22.71	24
		1	104	22.68	22.77	22.63	24
		50	0	21.84	21.90	21.72	24
		50	28	22.76	22.81	22.75	24
		50	56	21.69	21.76	21.62	24
		100	0	21.76	21.85	21.69	23
	DFT-s-OFDM 16QAM	1	1	21.76	21.77	21.70	23
	DFT-s-OFDM 64QAM	1	1	20.44	20.54	20.35	21.5
	DFT-s-OFDM 256QAM	1	1	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.
		Channel			502000	507000	512000	Tune-up
		Frequency (MHz)			2510	2535	2560	(dBm)
20M	CP-OFDM QPSK	1	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	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	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	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	512000	
		Frequency (MHz)		2510	2535	2560	
20M	DFT-s-OFDM P1/2 BPSK	1	1	23.04	23.06	22.89	24
		1	53	22.99	22.94	22.78	24
		1	104	22.95	22.98	22.84	24
		50	0	22.57	22.52	22.36	24
		50	28	22.99	23.01	22.83	24
		50	56	22.41	22.49	22.25	24
		100	0	22.57	22.55	22.39	24
	DFT-s-OFDM QPSK	1	1	23.10	23.15	22.94	24
		1	53	22.95	23.02	22.83	24
		1	104	22.93	22.97	22.74	24
		50	0	22.07	22.10	21.99	24
		50	28	23.04	23.09	22.90	24
		50	56	21.96	22.03	21.82	24
		100	0	22.06	22.05	21.93	23
	DFT-s-OFDM 16QAM	1	1	22.05	22.13	21.89	23
	DFT-s-OFDM 64QAM	1	1	20.78	20.76	20.60	21.5
	DFT-s-OFDM 256QAM	1	1	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 BPSK	1	1	23.00	23.05	22.98	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 Pi/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	22.90	22.82	22.91	24
	DFT-s-OFDM QPSK	1	1	23.47	23.35	23.45	24
		1	108	23.43	23.41	23.43	24
		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	Max. Tune-up
		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 Pi/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
	DFT-s-OFDM QPSK	1	1	23.06	23.09	22.89	24
		1	37	23.00	22.99	22.83	24
		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	Max. Tune-up
		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	634000		
		Frequency (MHz)		3500.01	3510		
100M	CP-OFDM QPSK	1	1	21.79		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) Ant7							
BW	MCS Index	RB Size	RB Offset	Mid		Max. Tune-up (dBm)	
		Channel		633334	3500.01		
		Frequency (MHz)		3500.01	3510		
100M	DFT-s-OFDM P1/2 BPSK	1	1	23.12		24	
		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	
		1	1	23.16		24	
	DFT-s-OFDM QPSK	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	
		1	1	22.17		23	
		DFT-s-OFDM 16QAM	1	1	21.08	21.5	
		DFT-s-OFDM 64QAM	1	1			
		DFT-s-OFDM 256QAM	1	1	19.06	19.5	
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
		Frequency (MHz)		3490.02	3500.01	3510	
	DFT-s-OFDM QPSK	1	1	23.05	23.07	23.15	24
	MCS Index	Channel		632000	633334	634666	Max. Tune-up
		Frequency (MHz)		3480	3500.01	3519.99	
	DFT-s-OFDM QPSK	1	1	23.01	23.07	23.10	24
	MCS Index	Channel		631668	633334	634998	Max. Tune-up
		Frequency (MHz)		3475.02	3500.01	3524.97	
	DFT-s-OFDM QPSK	1	1	23.03	23.15	23.09	24
	MCS Index	Channel		631334	633334	635332	Max. Tune-up
		Frequency (MHz)		3470.01	3500.01	3529.98	
	DFT-s-OFDM QPSK	1	1	22.98	23.07	23.10	24
	MCS Index	Channel		631002	633334	635664	Max. Tune-up
		Frequency (MHz)		3465.03	3500.01	3534.96	
	DFT-s-OFDM QPSK	1	1	23.02	23.05	23.11	24
	MCS Index	Channel		630668	633334	636000	Max. Tune-up
		Frequency (MHz)		3460.02	3500.01	3540	
	DFT-s-OFDM QPSK	1	1	22.89	23.00	23.05	24

n77 Part27O (SCS 30 kHz) Ant7							
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	21.48	21.66	21.62	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	21.44	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	21.42	21.60	21.57	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	21.46	21.57	21.53	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	21.40	21.59	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	21.38	21.62	21.60	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	21.46	21.59	21.53	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	21.64	21.55	22.5

n77 Part27O (SCS 30 kHz) Ant7							
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	22.98	23.13	23.13	24
		1	137	23.09	23.26	23.28	24
		1	271	23.07	23.21	23.19	24
		135	0	22.56	22.69	22.79	24
		135	69	23.15	23.28	23.30	24
		135	138	22.57	22.72	22.72	24
		270	0	22.59	22.76	22.78	24
	DFT-s-OFDM QPSK	1	1	23.22	23.30	23.35	24
		1	137	23.19	23.27	23.34	24
		1	271	23.14	23.28	23.26	24
		135	0	22.09	22.27	22.24	24
		135	69	23.16	23.24	23.29	24
		135	138	22.10	22.25	22.25	24
		270	0	22.10	22.27	22.29	23
	DFT-s-OFDM 16QAM	1	1	22.03	22.17	22.15	23
	DFT-s-OFDM 64QAM	1	1	20.74	20.87	20.97	21.5
	DFT-s-OFDM 256QAM	1	1	18.72	18.89	18.91	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	23.22	23.29	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	23.18	23.24	23.28	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	23.22	23.21	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	23.10	23.19	23.18	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	23.09	23.30	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	23.16	23.11	23.25	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	23.08	23.22	23.28	24

n78 (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		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		Mid		Max. Tune-up (dBm)
		Channel			633334		
		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
	DFT-s-OFDM QPSK	1	137		23.01		24
		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	633666	Max. Tune-up
90M	DFT-s-OFDM QPSK	Frequency (MHz)		3495	3500.01	3504.99	
BW	MCS Index	Channel		632668	633334	634000	Max. Tune-up
80M	DFT-s-OFDM QPSK	Frequency (MHz)		3490.02	3500.01	3510	
BW	MCS Index	Channel		632000	633334	634666	Max. Tune-up
60M	DFT-s-OFDM QPSK	Frequency (MHz)		3480	3500.01	3519.99	
BW	MCS Index	Channel		631668	633334	634998	Max. Tune-up
50M	DFT-s-OFDM QPSK	Frequency (MHz)		3475.02	3500.01	3524.97	
BW	MCS Index	Channel		631334	633334	635332	Max. Tune-up
40M	DFT-s-OFDM QPSK	Frequency (MHz)		3470.01	3500.01	3529.98	
BW	MCS Index	Channel		631002	633334	635664	Max. Tune-up
30M	DFT-s-OFDM QPSK	Frequency (MHz)		3465.03	3500.01	3534.96	
BW	MCS Index	Channel		630668	633334	636000	Max. Tune-up
20M	DFT-s-OFDM QPSK	Frequency (MHz)		3460.02	3500.01	3540	

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	
	DFT-s-OFDM QPSK	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	Max. Tune-up
			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

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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
	DFT-s-OFDM QPSK	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	Max. Tune-up
		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) 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 Pi/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
		1	137		22.58		24
		1	271		22.71		24
	DFT-s-OFDM QPSK	135	0		22.19		24
		135	69		22.53		24
		135	138		21.96		24
		270	0		21.87		23
		1	1		22.08		23
		1	1		20.97		21.5
		1	1		18.91		19.5
		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 Pi/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
	DFT-s-OFDM QPSK	1	1	23.15	23.23	23.34	24
		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) Ant6							
BW	MCS Index	RB Size	RB Offset	Channel		Mid	Max. Tune-up (dBm)
		Frequency (MHz)				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		Mid	Max. Tune-up (dBm)
		Frequency (MHz)				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
	DFT-s-OFDM QPSK	1	1		23.21		24
		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
		38	5190	9.40	10.00
	802.11ax-HE40 MCS0	46	5230	8.82	10.00
		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
		46	5230	8.20	9.50
	802.11ax-HE80 MCS0	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
		38	5190	12.11	13.00
	802.11ax-HE40 MCS0	46	5230	11.73	13.00
		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
		52	5260	8.89	10.00
	802.11ax-HE20 MCS0	56	5280	9.00	10.00
		60	5300	9.15	10.00
		64	5320	9.23	10.00
		54	5270	8.72	10.00
	802.11ax-HE40 MCS0	62	5310	9.21	10.00
		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
		52	5260	7.95	9.50
	802.11ax-HE20 MCS0	56	5280	7.97	9.50
		60	5300	8.01	9.50
		64	5320	8.02	9.50
		54	5270	7.91	9.50
	802.11ax-HE40 MCS0	62	5310	7.96	9.50
		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
		58	5290	11.94	13.00
	802.11ac-VHT80 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-HE20 MCS0	54	5270	11.54	13.00
		62	5310	11.84	13.00
	802.11ax-HE40 MCS0	58	5290	11.88	13.00
		54	5270	11.54	13.00

5.6GHz WLAN	Ant 8				
5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	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
		144	5720	11.71	12.00
	802.11n-HT40 MCS0	102	5510	10.91	12.00
		110	5550	10.89	12.00
		126	5630	11.10	12.00
		134	5670	11.44	12.00
		142	5710	11.92	12.00
	802.11ac-VHT20 MCS0	100	5500	9.94	10.50
		116	5580	9.76	10.50
		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-VHT40 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
		142	5710	10.22	10.50
	802.11ac-VHT80 MCS0	106	5530	8.88	10.00
		122	5610	8.91	10.00
		138	5690	8.93	10.00
	802.11ax-HE20 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-HE40 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
		142	5710	8.99	10.00
	802.11ax-HE80 MCS0	106	5530	8.56	10.00
		122	5610	8.44	10.00
		138	5690	8.80	10.00

5.6GHz WLAN	Ant 9				
5.6GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit
	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
		144	5720	9.27	10.00
	802.11n-HT40 MCS0	102	5510	9.04	10.00
		110	5550	8.88	10.00
		126	5630	9.87	10.00
		134	5670	10.55	11.00
		142	5710	9.56	10.00
	802.11ac-VHT20 MCS0	100	5500	8.03	9.00
		116	5580	8.32	9.00
		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-VHT40 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
		142	5710	7.81	9.00
	802.11ac-VHT80 MCS0	106	5530	7.48	8.00
		122	5610	7.71	8.00
		138	5690	7.17	8.00
	802.11ax-HE20 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-HE40 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
		142	5710	6.73	8.00
	802.11ax-HE80 MCS0	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
	802.11ax-HE20 MCS0	149	5745	9.10	10.00
		157	5785	9.09	10.00
		165	5825	9.31	10.00
	802.11ax-HE40 MCS0	151	5755	8.88	10.00
		159	5795	9.23	10.00
	802.11ax-HE80 MCS0	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
	802.11ax-HE20 MCS0	149	5745	6.51	8.00
		157	5785	7.11	8.00
		165	5825	7.41	8.00
	802.11ax-HE40 MCS0	151	5755	7.11	9.00
		159	5795	8.02	9.00
	802.11ax-HE80 MCS0	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
	802.11ax-HE20 MCS0	149	5745	11.21	12.00
		157	5785	11.42	12.00
		165	5825	11.67	12.00
	802.11ax-HE40 MCS0	151	5755	11.29	12.00
		159	5795	11.88	12.00
	802.11ax-HE80 MCS0	155	5775	11.36	12.00

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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
					(MHz)				Offset			(MHz)		(dBm)	(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

n30 (SCS 15 kHz)							
BW	MCS Index	RB Size	RB Offset		Mid		Max. Tune-up (dBm)
		Channel			462000		
		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		Mid		Max. Tune-up (dBm)
		Channel			462000		
		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	Max. Tune-up
		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
	DFT-s-OFDM QPSK	216	0	21.26	21.17	21.29	21.5
		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
	DFT-s-OFDM 16QAM	108	108	20.83	20.75	20.79	22
		216	0	20.83	20.70	20.81	21.5
		1	1	20.85	20.75	20.82	21
		1	1	19.44	19.31	19.29	20
		1	1	17.39	17.33	17.30	18
		1	1	17.39	17.33	17.30	18
BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
		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

LTE Band 66 (Ant1)								
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	Max. Tune-up (dBm)
		Channel		132072	132322	132572		
		Frequency (MHz)		1745	1745	1775		
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	17.82	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	16.15	16.17	16.37	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
10M	QPSK	Channel		132047	132322	132597	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715.5	1745	1775.5		
		1	0	17.68	17.88	17.88	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	36	17.02	17.31	17.40	1	17.5
		75	0	17.08	17.13	17.16	1	17.5
		1	0	17.32	17.61	17.70	1	17.5
	16QAM	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	16.39	2	16.5
		36	36	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
	64QAM	36	0	16.14	16.31	16.28	3	15.5
		36	19	16.14	16.04	16.37	3	15.5
		36	36	15.98	16.18	16.27	3	15.5
		75	0	16.18	16.08	16.41	3	15.5
10M	QPSK	Channel		132022	132322	132622	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715	1745	1775		
		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
		25	25	17.04	17.24	17.40	1	17.5
		50	0	17.11	17.16	17.16	1	17.5
	16QAM	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
		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
	64QAM	1	0	17.43	17.63	17.62	2	16.5
		1	24	17.17	17.16	17.35	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
5M	QPSK	Channel		131997	132322	132647	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715.5	1745	1775.5		
		1	0	17.69	17.83	17.89	0	18.5
		1	12	17.88	17.94	18.18	0	18.5
		1	24	17.96	17.99	18.12	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
		12	13	17.06	17.27	17.41	1	17.5
		25	0	17.06	17.16	17.18	1	17.5
	16QAM	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
		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
	64QAM	1	0	17.44	17.52	17.55	2	16.5
		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	16.26	16.27	3	15.5
3M	QPSK	Channel		131979	132322	132665	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715.5	1745	1775.5		
		1	0	17.68	17.89	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
		15	0	17.06	17.16	17.21	1	17.5
	16QAM	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	16.20	2	16.5
		8	3	16.09	16.14	16.33	2	16.5
		8	7	16.16	16.09	16.27	2	16.5
		15	0	16.05	16.07	16.37	2	16.5
	64QAM	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
1.4M	QPSK	Channel		131979	132322	132665	3GPP MPR	Max. Tune-up
		Frequency (MHz)		1715.5	1745	1775.5		
		1	0	17.66	17.96	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
		6	0	17.11	17.12	17.22	1	17.5
	16QAM	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	17.32	1	17.5
		3	3	17.14	17.11	17.31	1	17.5
		6	0	16.05	16.13	16.34	2	16.5
	64QAM	1	0	17.44	17.52	17.55	2	16.5
		1	2	17.12	17.20	17.33	2	16.5
		1	5	17.43	17.36	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	17.05	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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
					(MHz)				Offset			(MHz)		(dBm)	(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 P/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
		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
	DFT-s-OFDM 16QAM	1	1	19.61	19.59	19.55	20
	DFT-s-OFDM 64QAM	1	1	18.00	17.96	17.92	18.5
	DFT-s-OFDM 256QAM	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 P/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
		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
	DFT-s-OFDM 16QAM	1	1	19.56	19.51	19.53	20
	DFT-s-OFDM 64QAM	1	1	18.07	18.02	18.05	18.5
	DFT-s-OFDM 256QAM	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
		100	0	20.63	20.75	20.69	21.5
		1	1	21.27	21.34	21.33	21.5
	DFT-s-OFDM QPSK	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
		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
		1	1	19.02	19.04	19.00	19.5
		1	1	17.11	17.19	17.08	17.5
	DFT-s-OFDM 16QAM	1	1	20.50	20.53	20.50	21
		1	1	19.02	19.04	19.00	19.5
	DFT-s-OFDM 64QAM	1	1	19.02	19.04	19.00	19.5
		1	1	17.11	17.19	17.08	17.5
	DFT-s-OFDM 256QAM	1	1	17.11	17.19	17.08	17.5
		1	1	17.11	17.19	17.08	17.5
BW	MCS Index	Channel		637334	641666	646000	Max. Tune-up
		Frequency (MHz)		3560.01	3624.99	3690	
20M	DFT-s-OFDM QPSK	1	1	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	
		1	1	16.81	16.73	16.66	
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	
		1	1	16.77	16.77	16.59	
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	
		1	1	16.78	16.69	16.78	
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	
		1	1	16.71	16.71	16.72	
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	
		1	1	16.85	16.74	16.60	
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	
		216	0	17.78	17.65	17.76	18.5	
		1	1	18.34	18.17	18.33	18.5	
	DFT-s-OFDM QPSK	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	
		108	108	17.36	17.22	17.31	18.5	
		216	0	17.33	17.20	17.31	17.5	
		DFT-s-OFDM 16QAM	1	1	17.55	17.58	17.56	18
		DFT-s-OFDM 64QAM	1	1	16.00	16.01	16.03	16.5
	DFT-s-OFDM 256QAM	1	1	13.85	13.88	13.91	14.5	
	BW	MCS Index	Channel		345000	349000	353000	Max. Tune-up
			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				63333.4	
		Frequency (MHz)				3500.01	
100M	CP-OFDM QPSK	1	1			19.11	19.5
BW	MCS Index	Channel		632668	63333.4	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	63333.4	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	63333.4	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	63333.4	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	63333.4	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	63333.4	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				63333.4	
		Frequency (MHz)				3500.01	
100M	DFT-s-OFDM P1/2 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
		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	63333.4	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	63333.4	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	63333.4	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	63333.4	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	63333.4	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	63333.4	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 P1/2 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
		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		Mid		Max. Tune-up (dBm)
		Channel			633334		
		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		Mid		Max. Tune-up (dBm)
		Channel			633334		
		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
	DFT-s-OFDM QPSK	1	137		20.20		21
		1	271		20.09		21
		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

LTE Band 66 (Ant1)										
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR	Max. Tune-up (dB)		
		Channel			132072	132322			132572	
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		
		100	0	19.14	19.20	19.05	1	20		
		1	0	19.29	19.81	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		
	16QAM	50	50	18.49	18.47	19.02	2	19		
		100	0	18.40	18.44	19.07	2	19		
		1	0	18.63	18.89	19.26	2	19		
		1	50	18.71	18.73	19.28	2	19		
		1	99	18.77	18.75	19.34	2	19		
		50	0	17.53	17.67	18.08	3	18		
		50	25	17.52	17.48	18.13	3	18		
		50	50	17.58	17.54	18.03	3	18		
		100	0	17.46	17.42	18.07	3	18		
		64QAM	Channel			132022	132322	132597	3GPP MPR	Max. Tune-up
			Frequency (MHz)			1717.5	1746	1777.5		
			1	0	19.63	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	19.66	1	20			
36	39		19.07	19.32	19.78	1	20			
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			
10M	QPSK	36	0	18.37	18.57	19.05	2	19		
		36	19	18.46	18.45	19.08	2	19		
		36	39	18.47	18.40	19.87	2	19		
		75	0	18.34	18.30	19.05	2	19		
		1	0	18.82	18.87	19.20	2	19		
	16QAM	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		
		36	19	17.50	17.40	18.12	3	18		
		36	39	17.30	17.50	17.96	3	18		
		75	0	17.44	17.34	18.06	3	18		
		64QAM	Channel			132022	132322	132622	3GPP MPR	Max. Tune-up
	Frequency (MHz)			1715	1745	1775				
	1		0	19.86	19.99	20.46	0	21		
	1		24	19.88	19.94	20.56	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	19.76	1	20		
	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		
	5M	QPSK	25	0	18.39	18.53	19.08	2	19	
25			12	18.47	18.43	19.09	2	19		
25			25	18.41	18.43	18.97	2	19		
50			0	18.38	18.36	19.06	2	19		
16QAM		1	0	18.75	18.85	19.23	2	19		
		1	24	18.68	18.67	19.25	2	19		
		1	49	18.75	18.68	19.29	2	19		
		25	0	17.47	17.59	18.06	3	18		
		25	12	17.51	17.46	18.05	3	18		
		25	25	17.33	17.46	17.97	3	18		
		50	0	17.48	17.36	18.05	3	18		
64QAM		Channel			131997	132322	132647	3GPP MPR	Max. Tune-up	
		Frequency (MHz)			1712.5	1745	1777.5			
		1	0	19.64	19.98	20.43	0	21		
		1	12	19.68	19.94	20.57	0	21		
		1	24	19.87	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		
		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		
3M	QPSK	12	0	18.37	18.55	19.02	2	19		
		12	6	18.43	18.49	19.04	2	19		
		12	13	18.42	18.42	19.00	2	19		
		25	0	18.34	18.37	19.04	2	19		
	16QAM	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		
		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		
	64QAM	Channel			131967	132322	132647	3GPP MPR	Max. Tune-up	
		Frequency (MHz)			1711.5	1745	1778.5			
		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		
		15	0	19.08	19.18	19.62	1	20		
		1	0	19.27	19.53	20.09	1	20		
		1	7	19.42	19.54	20.06	1	20		
		1	14	19.59	19.52	20.21	1	20		
1.4M	QPSK	8	0	18.44	18.56	19.02	2	19		
		8	3	18.43	18.48	19.06	2	19		
		8	7	18.47	18.40	18.97	2	19		
		15	0	18.34	18.36	19.05	2	19		
	16QAM	1	0	18.82	18.87	19.20	2	19		
		1	7	18.64	18.65	19.22	2	19		
		1	14	18.75	18.74	19.30	2	19		
		8	0	17.51	17.59	18.07	3	18		
		8	3	17.50	17.40	18.12	3	18		
		8	7	17.37	17.53	17.99	3	18		
		15	0	17.43	17.41	18.01	3	18		
	64QAM	Channel			131979	132322	132665	3GPP MPR	Max. Tune-up	
		Frequency (MHz)			1716.7	1746	1779.3			
		1	0	19.61	20.01	20.42	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		
		6	0	19.13	19.14	19.63	1	20		
		1	0	19.34	19.54	20.09	1	20		
		1	2	19.46	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			
3		3	19.45	19.42	20.01	1	20			
6		0	18.34	18.42	19.02	2	19			
64QAM	1	0	18.76	18.84	19.26	2	19			
	1	2	18.68	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			
	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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
					(MHz)				Offset			(MHz)		(dBm)	(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)		1860	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 P/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 P/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 P1/2 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
		108	108	19.57	19.64	19.66	21
		216	0	19.56	19.63	19.62	20
	DFT-s-OFDM 16QAM	1	1	19.40	19.44	19.53	20
	DFT-s-OFDM 64QAM	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 P1/2 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
		108	108	19.78	19.66	19.73	21
		216	0	19.79	19.67	19.73	20
	DFT-s-OFDM 16QAM	1	1	19.62	19.61	19.54	20
	DFT-s-OFDM 64QAM	1	1	18.11	18.19	18.13	18.5
	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 Head SAR

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
WWAN Band		WWAN	2.4GHz WLAN	2.4GHz WLAN	2.4GHz WLAN	5GHz WLAN	5GHz WLAN	5GHz WLAN	Bluetooth	BLE	1+2+6	1+3+5	1+4	1+5+8	1+14+8	1+7+8	1+15+8	1+16+8	1+7+8	1+15+8	
		1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
GSM	GSM900	Right Check at Origin	0.415	0.106	0.135	0.243	0.293	0.110	0.306	0.001	0.592	0.841	0.659	0.708	0.527	0.724	0.735	0.532	0.730	0.530	
		Right Tilted at Origin	0.205	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.324	0.669	0.405	0.553	0.293	0.559	0.580	0.299	0.585	
		Left Check at Origin	0.318	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.622	0.938	0.706	0.825	0.557	0.697	0.640	0.572	0.712	
		Left Tilted at Origin	0.208	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.423	0.834	0.623	0.583	0.355	0.593	0.594	0.366	0.603	
		Right Check at Origin	1.006	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	1.142	1.432	1.249	1.309	1.137	1.314	1.305	1.123	1.310	
	WCDMA II	Right Tilted at Origin	0.697	0.032	0.116	0.249	0.347	0.087	0.363	0.001	0.007	0.816	1.160	0.946	1.045	0.784	1.050	1.051	0.790	1.057	
		Left Check at Origin	0.273	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.578	0.894	0.662	0.581	0.513	0.683	0.595	0.527	0.667	
		Left Tilted at Origin	0.300	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.518	0.817	0.578	0.495	0.448	0.605	0.577	0.499	0.605	
		Right Check at Origin	0.414	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	0.559	0.840	0.658	0.708	0.525	0.722	0.714	0.533	0.728	
		Right Tilted at Origin	0.472	0.032	0.116	0.249	0.347	0.087	0.363	0.001	0.007	0.591	0.936	0.721	0.820	0.559	0.825	0.826	0.566	0.832	
WCDMA	WCDMA IV	Left Check at Origin	0.299	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.605	0.919	0.687	0.606	0.538	0.678	0.621	0.553	0.683	
		Left Tilted at Origin	0.331	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.547	0.847	0.746	0.707	0.479	0.736	0.717	0.489	0.736	
		Right Check at Origin	0.441	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	0.577	0.887	0.694	0.735	0.552	0.740	0.741	0.558	0.755	
		Right Tilted at Origin	0.373	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.492	0.837	0.623	0.624	0.461	0.727	0.728	0.487	0.734	
		Left Check at Origin	0.180	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.484	0.800	0.588	0.487	0.419	0.559	0.502	0.434	0.574	
	WCDMA V	Left Tilted at Origin	0.152	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.367	0.798	0.587	0.527	0.399	0.536	0.536	0.310	0.547	
		Right Check at Origin	0.257	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	0.494	0.793	0.651	0.651	0.448	0.656	0.657	0.474	0.671	
		Right Tilted at Origin	0.171	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.290	0.635	0.420	0.519	0.258	0.524	0.525	0.265	0.531	
		Left Check at Origin	0.313	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.617	0.933	0.701	0.620	0.552	0.682	0.635	0.567	0.707	
		Left Tilted at Origin	0.220	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.436	0.836	0.635	0.595	0.367	0.605	0.606	0.378	0.615	
LTE	LTE Band 5	Right Check at Origin	0.315	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	0.461	0.741	0.558	0.609	0.426	0.623	0.614	0.432	0.629	
		Right Tilted at Origin	0.169	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.288	0.633	0.418	0.517	0.256	0.522	0.523	0.263	0.529	
		Left Check at Origin	0.277	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.582	0.898	0.666	0.585	0.517	0.657	0.599	0.531	0.671	
		Left Tilted at Origin	0.163	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.379	0.779	0.578	0.539	0.311	0.548	0.550	0.322	0.559	
		Right Check at Origin	1.199	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	1.242	1.524	1.362	1.402	1.220	1.417	1.406	1.225	1.423	
	LTE Band 7	Right Tilted at Origin	1.115	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	1.254	1.579	1.364	1.403	1.202	1.405	1.406	1.200	1.475	
		Left Check at Origin	0.702	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	1.007	1.329	1.091	1.010	0.942	1.082	1.024	0.956	1.096	
		Left Tilted at Origin	0.628	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	1.044	1.444	1.243	1.204	0.975	1.213	1.214	0.986	1.223	
		Right Check at Origin	0.279	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	0.415	0.704	0.522	0.572	0.390	0.587	0.578	0.395	0.582	
		Right Tilted at Origin	0.132	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.251	0.595	0.381	0.479	0.219	0.485	0.486	0.225	0.482	
LTE	LTE Band 12 / 17	Left Check at Origin	0.233	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.538	0.854	0.641	0.541	0.473	0.613	0.565	0.487	0.627	
		Left Tilted at Origin	0.134	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.349	0.750	0.549	0.509	0.281	0.518	0.520	0.292	0.529	
		Right Check at Origin	0.236	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	0.472	0.761	0.579	0.629	0.447	0.644	0.635	0.442	0.640	
		Right Tilted at Origin	0.168	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.287	0.632	0.417	0.516	0.255	0.521	0.522	0.262	0.528	
		Left Check at Origin	0.315	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.620	0.936	0.704	0.623	0.555	0.695	0.637	0.569	0.709	
	LTE Band 14	Left Tilted at Origin	0.207	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.423	0.823	0.622	0.583	0.355	0.592	0.594	0.366	0.603	
		Right Check at Origin	0.317	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	0.453	0.743	0.560	0.611	0.428	0.625	0.616	0.434	0.631	
		Right Tilted at Origin	0.162	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.282	0.626	0.412	0.510	0.250	0.516	0.517	0.256	0.523	
		Left Check at Origin	0.273	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.577	0.893	0.661	0.580	0.512	0.652	0.595	0.527	0.667	
		Left Tilted at Origin	0.179	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.394	0.795	0.594	0.554	0.326	0.563	0.565	0.337	0.574	
LTE	LTE Band 25 / 2	Right Check at Origin	0.185	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	0.399	0.681	0.501	0.549	0.389	0.585	0.586	0.382	0.589	
		Right Tilted at Origin	0.086	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.204	0.349	0.134	0.233	0.093	0.239	0.240	0.079	0.240	
		Left Check at Origin	0.664	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.969	1.295	1.053	0.972	0.904	1.044	0.986	0.918	1.058	
		Left Tilted at Origin	0.529	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.746	1.145	0.944	0.905	0.677	0.914	0.915	0.687	0.924	
		Right Check at Origin	0.333	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	0.470	0.759	0.577	0.627	0.444	0.642	0.633	0.450	0.647	
	LTE Band 26	Right Tilted at Origin	0.162	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.281	0.626	0.411	0.510	0.249	0.515	0.516	0.256	0.522	
		Left Check at Origin	0.264	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.569	0.885	0.652	0.572	0.504	0.644	0.586	0.518	0.658	
		Left Tilted at Origin	0.169	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.385	0.785	0.584	0.544	0.316	0.554	0.555	0.327	0.564	
		Right Check at Origin	0.952	0.026	0.133	0.243	0.293	0.110	0.309	0.001	0.006	1.088	1.377	1.195	1.245	1.053	1.260	1.251	1.068	1.286	
		Right Tilted at Origin	0.620	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	0.460	0.729	0.517	0.567	0.347	0.582	0.583	0.320	0.580	
LTE	LTE Band 41 / 38	Left Check at Origin	0.460	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.726	1.101	0.869	0.780	0.728	0.869	0.862	0.704	0.874	
		Left Tilted at Origin	0.509	0.078	0.250	0.415	0.366	0.138	0.375	0.010	0.020	0.725	1.125	0.904	0.885	0.657	0.894	0.895	0.667	0.904	
		Right Check at Origin	0.973	0.026	0.133	0.243	0.293	0.110	0.308	0.001	0.006	1.110	1.399	1.217	1.267	1.044	1.282	1.273	1.090	1.287	
		Right Tilted at Origin	0.907	0.032	0.116	0.249	0.347	0.087	0.353	0.001	0.007	1.026	1.371	1.197	1.255	0.994	1.261	1.262	1.003	1.267	
		Left Check at Origin	0.632	0.071	0.319	0.389	0.302	0.234	0.374	0.006	0.020	0.837	1.153	0.921	0.840	0.772	0.912	0			

Simultaneous Transmission analysis Head SAR(EN-DO

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WFO Air Band		Frequency (MHz)		LTC		NR		2.4GHz WLAN		2.4GHz WLAN		2.4GHz WLAN		2.4GHz WLAN		5GHz WLAN		5GHz WLAN		5GHz WLAN		Bluetooth		BLE		10.7+37.7		10.7+40.7		10.7+43.7		10.7+46.7		10.7+49.7		10.7+52.7		10.7+55.7		10.7+58.7		10.7+61.7		10.7+64.7		10.7+67.7		10.7+70.7		10.7+73.7		10.7+76.7		10.7+79.7		10.7+82.7		10.7+85.7		10.7+88.7		10.7+91.7		10.7+94.7		10.7+97.7		10.7+100.7		10.7+103.7		10.7+106.7		10.7+109.7		10.7+112.7		10.7+115.7		10.7+118.7		10.7+121.7		10.7+124.7		10.7+127.7		10.7+130.7		10.7+133.7		10.7+136.7		10.7+139.7		10.7+142.7		10.7+145.7		10.7+148.7		10.7+151.7		10.7+154.7		10.7+157.7		10.7+160.7		10.7+163.7		10.7+166.7		10.7+169.7		10.7+172.7		10.7+175.7		10.7+178.7		10.7+181.7		10.7+184.7		10.7+187.7		10.7+190.7		10.7+193.7		10.7+196.7		10.7+199.7		10.7+202.7		10.7+205.7		10.7+208.7		10.7+211.7		10.7+214.7		10.7+217.7		10.7+220.7		10.7+223.7		10.7+226.7		10.7+229.7		10.7+232.7		10.7+235.7		10.7+238.7		10.7+241.7		10.7+244.7		10.7+247.7		10.7+250.7		10.7+253.7		10.7+256.7		10.7+259.7		10.7+262.7		10.7+265.7		10.7+268.7		10.7+271.7		10.7+274.7		10.7+277.7		10.7+280.7		10.7+283.7		10.7+286.7		10.7+289.7		10.7+292.7		10.7+295.7		10.7+298.7		10.7+301.7		10.7+304.7		10.7+307.7		10.7+310.7		10.7+313.7		10.7+316.7		10.7+319.7		10.7+322.7		10.7+325.7		10.7+328.7		10.7+331.7		10.7+334.7		10.7+337.7		10.7+340.7		10.7+343.7		10.7+346.7		10.7+349.7		10.7+352.7		10.7+355.7		10.7+358.7		10.7+361.7		10.7+364.7		10.7+367.7		10.7+370.7		10.7+373.7		10.7+376.7		10.7+379.7		10.7+382.7		10.7+385.7		10.7+388.7		10.7+391.7		10.7+394.7		10.7+397.7		10.7+400.7		10.7+403.7		10.7+406.7		10.7+409.7		10.7+412.7		10.7+415.7		10.7+418.7		10.7+421.7		10.7+424.7		10.7+427.7		10.7+430.7		10.7+433.7		10.7+436.7		10.7+439.7		10.7+442.7		10.7+445.7		10.7+448.7		10.7+451.7		10.7+454.7		10.7+457.7		10.7+460.7		10.7+463.7		10.7+466.7		10.7+469.7		10.7+472.7		10.7+475.7		10.7+478.7		10.7+481.7		10.7+484.7		10.7+487.7		10.7+490.7		10.7+493.7		10.7+496.7		10.7+499.7		10.7+502.7		10.7+505.7		10.7+508.7		10.7+511.7		10.7+514.7		10.7+517.7		10.7+520.7		10.7+523.7		10.7+526.7		10.7+529	

Simultaneous Transmission analysis Hotspot SAR(EN-DC)

Wavelength Band	Exposure Product	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86																

Simultaneous Transmission analysis Hotspot SAR(EN-DC)

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Appendix F. Photographs of EUT and Setup