

Report No.: SEWM2302000052RG02

Rev.: 01

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Appendix B.3

LTE Band 2



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Effective (Isotropic) Radiated Power Output Data

Test for Spot check the max BW power:

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	20MHz	QPSK	18700	1RB#0	22.05	23.66	33	PASS
Band2	20MHz	QPSK	18700	1RB#50	22.21	23.82	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	21.80	23.41	33	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.29	22.90	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.15	22.76	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.22	22.83	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.18	22.79	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	21.85	23.46	33	PASS
Band2	20MHz	QPSK	18900	1RB#50	21.98	23.59	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.67	23.28	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	20.94	22.55	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	20.94	22.55	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	20.90	22.51	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	20.92	22.53	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	21.71	23.32	33	PASS
Band2	20MHz	QPSK	19100	1RB#50	21.90	23.51	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.53	23.14	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	20.94	22.55	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	20.85	22.46	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	20.84	22.45	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	20.84	22.45	33	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 2_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	42.53	-45.59	29.98	-68.33	-13.00	55.33	172	185	Horizontal
2	5613.27	51.33	-43.84	32.96	-54.81	-13.00	41.81	244	119	Horizontal
3	7484.36	41.91	-41.66	36.49	-58.52	-13.00	45.52	191	49	Horizontal
4	9355.45	39.22	-38.26	38.56	-55.74	-13.00	42.74	206	136	Horizontal
5	11226.54	32.02	-35.07	39.37	-58.93	-13.00	45.93	138	168	Horizontal
6	13097.63	32.02	-34.47	39.66	-58.05	-13.00	45.05	214	328	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	42.08	-45.59	29.98	-68.78	-13.00	55.78	163	243	Vertical
2	5613.27	46.73	-43.84	32.96	-59.41	-13.00	46.41	249	243	Vertical
3	7484.36	40.95	-41.66	36.49	-59.48	-13.00	46.48	168	82	Vertical
4	9355.45	37.94	-38.26	38.56	-57.02	-13.00	44.02	144	46	Vertical
5	11226.54	32.11	-35.07	39.37	-58.84	-13.00	45.84	251	145	Vertical
6	13097.63	32.36	-34.47	39.66	-57.71	-13.00	44.71	208	291	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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