

Report No.: SEWM2302000050RG02

Rev.: 01

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Appendix B.5

LTE Band 5



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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)	ERP (dBm)	Limit (dBm)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	23.14	20.31	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#25	23.51	20.68	38.5	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.16	20.33	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.35	19.52	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#13	22.35	19.52	38.5	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.18	19.35	38.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.33	19.50	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.10	20.27	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#25	23.57	20.74	38.5	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.11	20.28	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.27	19.44	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#13	22.36	19.53	38.5	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.44	19.61	38.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.49	19.66	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.14	20.31	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#25	23.69	20.86	38.5	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.01	20.18	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.49	19.66	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#13	22.35	19.52	38.5	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.25	19.42	38.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.20	19.37	38.5	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 5_ 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	1664	71.00	-48.34	25.57	-47.03	-13.00	34.03	182	355	Horizontal
2	2496.27	52.04	-46.77	27.89	-62.10	-13.00	49.10	211	261	Horizontal
3	3328.36	57.12	-46.16	29.47	-54.83	-13.00	41.83	236	130	Horizontal
4	4160.45	42.23	-45.23	30.86	-67.40	-13.00	54.40	159	202	Horizontal
5	4992.54	39.97	-45.02	32.58	-67.73	-13.00	54.73	248	355	Horizontal
6	5824.63	40.26	-43.43	33.64	-64.79	-13.00	51.79	221	71	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	1664.18	65.30	-48.34	25.57	-52.73	-13.00	39.73	213	20	Vertical
2	2496.27	54.52	-46.77	27.89	-59.62	-13.00	46.62	158	196	Vertical
3	3328.36	55.79	-46.16	29.47	-56.16	-13.00	43.16	176	318	Vertical
4	4160.45	42.96	-45.23	30.86	-66.67	-13.00	53.67	199	196	Vertical
5	4992.54	40.16	-45.02	32.58	-67.54	-13.00	54.54	214	181	Vertical
6	5824.63	40.21	-43.43	33.64	-64.84	-13.00	51.84	153	302	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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