

Appendix B.12

LTE Band 71



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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
Band71	20MHz	QPSK	133222	1RB#0	22.75	17.45	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#50	22.73	17.43	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.74	17.44	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.72	17.42	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.69	17.39	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.63	17.33	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.72	17.42	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.66	17.36	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#50	22.71	17.41	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.71	17.41	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.67	17.37	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.53	17.23	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.52	17.22	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.72	17.42	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.67	17.37	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#50	22.75	17.45	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.69	17.39	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.54	17.24	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.70	17.4	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.58	17.28	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.73	17.43	34.77	PASS



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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 71_ 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	1348.18	44.67	-48.77	25.50	-73.86	-13.00	60.86	191	124	Horizontal
2	2022.27	43.57	-48.04	26.95	-72.78	-13.00	59.78	231	0	Horizontal
3	2696.36	43.68	-47.07	28.57	-70.08	-13.00	57.08	156	124	Horizontal
4	3370.45	42.81	-46.23	29.45	-69.23	-13.00	56.23	186	5	Horizontal
5	4044.54	42.66	-45.46	30.67	-67.39	-13.00	54.39	224	2	Horizontal
6	4718.63	40.23	-44.56	31.93	-67.67	-13.00	54.67	148	357	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	1348.18	44.50	-48.77	25.50	-74.03	-13.00	61.03	159	193	Vertical
2	2022.27	43.43	-48.04	26.95	-72.92	-13.00	59.92	266	252	Vertical
3	2696.36	43.53	-47.07	28.57	-70.23	-13.00	57.23	245	295	Vertical
4	3370.45	42.60	-46.23	29.45	-69.44	-13.00	56.44	187	164	Vertical
5	4044.54	42.15	-45.46	30.67	-67.90	-13.00	54.90	163	222	Vertical
6	4718.63	41.13	-44.56	31.93	-66.77	-13.00	53.77	241	164	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

