

Appendix B.10

LTE Band 41



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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	Limit	Verdict
Band41	20MHz	QPSK	39750	1RB#0	24.40	27.12	33	PASS
Band41	20MHz	QPSK	39750	1RB#50	24.56	27.28	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.37	27.09	33	PASS
Band41	20MHz	QPSK	39750	50RB#0	23.68	26.4	33	PASS
Band41	20MHz	QPSK	39750	50RB#25	23.68	26.4	33	PASS
Band41	20MHz	QPSK	39750	50RB#50	23.66	26.38	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.71	26.43	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.11	26.83	33	PASS
Band41	20MHz	QPSK	40620	1RB#50	24.17	26.89	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.09	26.81	33	PASS
Band41	20MHz	QPSK	40620	50RB#0	23.25	25.97	33	PASS
Band41	20MHz	QPSK	40620	50RB#25	23.19	25.91	33	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.25	25.97	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.20	25.92	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.50	27.22	33	PASS
Band41	20MHz	QPSK	41490	1RB#50	24.67	27.39	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.28	27	33	PASS
Band41	20MHz	QPSK	41490	50RB#0	23.73	26.45	33	PASS
Band41	20MHz	QPSK	41490	50RB#25	23.65	26.37	33	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.57	26.29	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.57	26.29	33	PASS



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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Field Strength of Spurious Radiation

Test for spot check:

Test Band = LTE Band 41_ 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	17687.5	32.15	-31.07	41.35	-52.83	-25.00	27.83	147	1	Horizontal
2	5168.18	42.35	-44.19	32.60	-64.50	-25.00	39.50	192	114	Horizontal
3	7752.27	51.29	-40.96	37.01	-47.92	-25.00	22.92	242	198	Horizontal
4	10336.36	47.35	-36.70	38.87	-45.74	-25.00	20.74	189	217	Horizontal
5	12920.45	33.86	-34.87	39.52	-56.75	-25.00	31.75	263	50	Horizontal
6	15504.54	31.21	-34.16	38.54	-59.66	-25.00	34.66	211	1	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	17687.5	31.81	-31.07	41.35	-53.17	-25.00	28.17	176	301	Vertical
2	5168.18	41.59	-44.19	32.60	-65.26	-25.00	40.26	233	341	Vertical
3	7752.27	49.60	-40.96	37.01	-49.61	-25.00	24.61	194	176	Vertical
4	10336.36	40.31	-36.70	38.87	-52.78	-25.00	27.78	262	32	Vertical
5	12920.45	37.98	-34.87	39.52	-52.63	-25.00	27.63	187	135	Vertical
6	15504.54	32.22	-34.16	38.54	-58.65	-25.00	33.65	284	198	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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