

Appendix B.6

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.61	21.26	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.63	21.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.56	21.21	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.69	20.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.74	21.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.76	21.41	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.68	21.33	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.86	20.51	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.64	21.29	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.72	21.37	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.63	21.28	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.72	20.37	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.70	20.35	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.81	20.46	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.83	20.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.81	19.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.90	20.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.03	20.68	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.93	20.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.85	19.50	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.92	20.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.00	20.65	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.76	20.41	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.87	19.52	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.62	21.27	34.77	PASS



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Band12	3MHz	QPSK	23025	1RB#8	23.62	21.27	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.66	21.31	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.91	20.56	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.77	21.42	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.77	21.42	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.75	21.40	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.87	20.52	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.75	21.40	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.73	21.38	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.75	21.40	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.88	20.53	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.79	20.44	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.76	20.41	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.81	20.46	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.86	19.51	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.95	20.60	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.99	20.64	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.95	20.60	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.87	19.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.97	20.62	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.03	20.68	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.91	20.56	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.85	19.50	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.61	21.26	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.71	21.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.70	21.35	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.85	20.50	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.73	21.38	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.74	21.39	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.73	21.38	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.89	20.54	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.77	21.42	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.70	21.35	34.77	PASS



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Band12	5MHz	QPSK	23155	1RB#24	23.72	21.37	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.83	20.48	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.78	20.43	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.81	20.46	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.90	20.55	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.79	19.44	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.97	20.62	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.98	20.63	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.01	20.66	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.89	19.54	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.04	20.69	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.91	20.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.91	20.56	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.83	19.48	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.67	21.32	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.72	21.37	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.74	21.39	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.95	20.60	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.68	21.33	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.78	21.43	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.71	21.36	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.94	20.59	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.80	21.45	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.74	21.39	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.70	21.35	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.89	20.54	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.91	20.56	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.93	20.58	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.97	20.62	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.93	19.58	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.87	20.52	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.97	20.62	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.96	20.61	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	21.90	19.55	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.06	20.71	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.04	20.69	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.00	20.65	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.86	19.51	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = LTE_12_10MHz_TM1
 Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.0499	75.14	-53.71	25.80	-48.03	-13.00	35.03	274	265	Horizontal
2	2098.8874	55.54	-52.08	27.49	-64.31	-13.00	51.31	196	124	Horizontal
3	3004.2002	53.37	-50.36	29.81	-62.44	-13.00	49.44	332	61	Horizontal
4	4429.4715	51.91	-48.29	32.02	-59.62	-13.00	46.62	148	56	Horizontal
5	6971.9986	50.43	-44.37	36.44	-52.76	-13.00	39.76	216	0	Horizontal
6	9037.4519	48.21	-41.81	38.73	-50.13	-13.00	37.13	123	251	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.2999	72.37	-53.71	25.80	-50.80	-13.00	37.80	378	62	Vertical
2	2098.8874	54.03	-52.08	27.49	-65.82	-13.00	52.82	269	221	Vertical
3	3016.1008	53.48	-50.34	29.83	-62.29	-13.00	49.29	333	310	Vertical
4	5250.9625	50.73	-46.48	33.40	-57.61	-13.00	44.61	146	41	Vertical
5	7460.273	49.67	-43.46	36.68	-52.37	-13.00	39.37	332	21	Vertical
6	9030.8015	48.14	-41.79	38.74	-50.17	-13.00	37.17	201	178	Vertical



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Test Band = LTE_12_10MHz_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.0508	75.03	-53.66	25.79	-48.10	-13.00	35.10	266	254	Horizontal
2	2109.1386	55.22	-52.11	27.48	-64.67	-13.00	51.67	345	272	Horizontal
3	3105.7053	53.66	-50.50	30.12	-61.98	-13.00	48.98	214	353	Horizontal
4	4534.1267	51.69	-48.23	32.00	-59.80	-13.00	46.80	187	125	Horizontal
5	6732.2366	49.46	-44.37	36.06	-54.11	-13.00	41.11	263	343	Horizontal
6	9012.9506	48.00	-41.71	38.77	-50.20	-13.00	37.20	334	99	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.0508	69.67	-53.66	25.79	-53.46	-13.00	40.46	274	65	Vertical
2	2109.1386	54.61	-52.11	27.48	-65.28	-13.00	52.28	366	220	Vertical
3	3001.4001	53.37	-50.37	29.80	-62.46	-13.00	49.46	243	70	Vertical
4	4573.3287	51.73	-48.18	32.10	-59.61	-13.00	46.61	150	257	Vertical
5	6358.0679	49.78	-45.17	34.75	-55.90	-13.00	42.90	221	164	Vertical
6	9048.6524	48.22	-41.86	38.70	-50.20	-13.00	37.20	149	144	Vertical



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Test Band = LTE_12_10MHz_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.3017	74.81	-53.59	25.77	-48.27	-13.00	35.27	356	257	Horizontal
2	2119.89	55.13	-52.16	27.46	-64.83	-13.00	51.83	224	127	Horizontal
3	3105.0052	52.93	-50.51	30.12	-62.72	-13.00	49.72	178	339	Horizontal
4	4250.9625	51.82	-48.51	32.09	-59.86	-13.00	46.86	365	212	Horizontal
5	6838.6419	49.83	-45.07	36.15	-54.35	-13.00	41.35	225	202	Horizontal
6	9030.1015	47.95	-41.78	38.74	-50.35	-13.00	37.35	369	114	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.3017	68.77	-53.59	25.77	-54.31	-13.00	41.31	287	70	Vertical
2	2119.89	54.44	-52.16	27.46	-65.52	-13.00	52.52	114	220	Vertical
3	3130.9065	52.65	-50.10	30.22	-62.49	-13.00	49.49	116	330	Vertical
4	4914.2457	50.37	-47.45	33.13	-59.21	-13.00	46.21	325	281	Vertical
5	7485.4743	49.44	-43.28	36.63	-52.47	-13.00	39.47	145	2	Vertical
6	9517.3259	47.27	-41.54	39.17	-50.36	-13.00	37.36	226	358	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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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