

Appendix B.3

LTE Band 4



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

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.00	25.18	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.10	25.28	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.84	25.02	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.77	23.95	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.97	25.15	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.92	25.1	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.16	25.34	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.93	24.11	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.62	24.8	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.80	24.98	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.80	24.98	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.69	23.87	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.86	24.04	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.74	23.92	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.89	24.07	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.57	22.75	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.55	23.73	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.90	24.08	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.72	23.9	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.80	22.98	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.26	23.44	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.60	23.78	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.70	23.88	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.54	22.72	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.36	25.54	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.81	24.99	30	PASS



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Band4	3MHz	QPSK	19965	1RB#14	22.77	24.95	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.84	24.02	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.04	25.22	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.01	25.19	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.11	25.29	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.97	24.15	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.68	24.86	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.74	24.92	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.73	24.91	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.76	23.94	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.25	23.43	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.21	23.39	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.71	23.89	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.87	23.05	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.32	23.5	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.89	24.07	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.64	23.82	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.08	23.26	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.85	24.03	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.02	24.2	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.29	23.47	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.63	22.81	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.83	25.01	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.82	25	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.93	25.11	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.75	23.93	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.95	25.13	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.04	25.22	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.06	25.24	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.99	24.17	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.69	24.87	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.77	24.95	30	PASS



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Band4	5MHz	QPSK	20375	25RB#0	21.78	23.96	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.87	24.05	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.54	23.72	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.32	23.5	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.89	23.07	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.31	23.49	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.82	24	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.73	23.91	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.10	23.28	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.46	23.64	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.53	23.71	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.24	24.42	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.80	22.98	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.73	24.91	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.22	25.4	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.86	25.04	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.89	24.07	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.78	24.96	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.21	25.39	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.02	25.2	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.93	24.11	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.88	25.06	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.07	25.25	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.86	25.04	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.81	23.99	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.49	23.67	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.78	23.96	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.77	23.95	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.99	23.17	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.97	24.15	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.68	23.86	30	PASS



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Band4	10MHz	16QAM	20175	50RB#0	21.04	23.22	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.52	23.7	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.76	23.94	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.17	24.35	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.82	23	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.79	24.97	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.04	25.22	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.03	25.21	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.89	24.07	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.88	25.06	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.29	25.47	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.93	25.11	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.03	24.21	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.88	25.06	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.83	25.01	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.88	25.06	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.89	24.07	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.93	24.11	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.13	24.31	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.86	24.04	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.99	23.17	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.14	24.32	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.09	24.27	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.72	23.9	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.13	23.31	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.68	23.86	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.39	23.57	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.34	23.52	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.90	23.08	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.54	24.72	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.22	25.4	30	PASS



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Band4	20MHz	QPSK	20050	1RB#99	22.88	25.06	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.09	24.27	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.97	25.15	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.32	25.5	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.78	24.96	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.03	24.21	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.91	25.09	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.18	25.36	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.82	25	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.94	24.12	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.41	23.59	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.08	24.26	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.59	23.77	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.10	23.28	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.01	24.19	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.68	23.86	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.07	24.25	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.91	23.09	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.49	23.67	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.53	23.71	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.12	24.3	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.95	23.13	30	PASS



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Field Strength of Spurious Radiation

Test Band = LTE Band4_ TM1
 Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	62.58	-46.28	29.45	-49.51	-13.00	36.51	110	226	Horizontal
2	5133.2700	57.31	-45.34	32.95	-50.34	-13.00	37.34	119	287	Horizontal
3	6844.3600	48.39	-44.14	35.89	-55.12	-13.00	42.12	138	270	Horizontal
4	8555.4500	47.10	-41.46	37.66	-51.96	-13.00	38.96	128	44	Horizontal
5	10266.5400	43.36	-39.23	38.83	-52.30	-13.00	39.30	117	196	Horizontal
6	11977.6300	39.16	-37.51	38.95	-54.67	-13.00	41.67	169	60	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	3422.1800	64.32	-46.28	29.45	-47.77	-13.00	34.77	210	210	Vertical
2	5133.2700	57.87	-45.34	32.95	-49.78	-13.00	36.78	260	61	Vertical
3	6844.3600	47.49	-44.14	35.89	-56.02	-13.00	43.02	127	360	Vertical
4	8555.4500	46.67	-41.46	37.66	-52.39	-13.00	39.39	186	284	Vertical
5	10266.5400	42.81	-39.23	38.83	-52.85	-13.00	39.85	119	239	Vertical
6	11977.6300	39.60	-37.51	38.95	-54.23	-13.00	41.23	125	120	Vertical



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

Test Band = LTE Band4_ 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	3447	63.03	-46.27	29.47	-49.03	-13.00	36.03	236	242	Horizontal
2	5170.7700	55.06	-45.31	32.97	-52.53	-13.00	39.53	255	121	Horizontal
3	6894.3600	47.41	-44.10	35.95	-56.00	-13.00	43.00	145	332	Horizontal
4	8617.9500	46.17	-41.40	37.78	-52.71	-13.00	39.71	175	360	Horizontal
5	10341.5400	43.27	-39.06	38.85	-52.20	-13.00	39.20	195	354	Horizontal
6	12065.1300	40.14	-37.44	39.02	-53.54	-13.00	40.54	146	47	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	3447	64.26	-46.27	29.47	-47.80	-13.00	34.80	165	212	Vertical
2	5170.7700	60.25	-45.31	32.97	-47.34	-13.00	34.34	148	240	Vertical
3	6894.3600	48.51	-44.10	35.95	-54.90	-13.00	41.90	175	118	Vertical
4	8617.9500	47.62	-41.40	37.78	-51.26	-13.00	38.26	129	270	Vertical
5	10341.5400	43.01	-39.06	38.85	-52.46	-13.00	39.46	299	226	Vertical
6	12065.1300	39.29	-37.44	39.02	-54.39	-13.00	41.39	140	46	Vertical



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

Test Band = LTE Band4_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	58.39	-46.27	29.50	-53.64	-13.00	40.64	135	284	Horizontal
2	5208.2700	50.94	-45.26	32.98	-56.60	-13.00	43.60	145	192	Horizontal
3	6944.3600	48.10	-43.85	36.01	-55.00	-13.00	42.00	168	164	Horizontal
4	8680.4500	46.20	-41.62	37.88	-52.80	-13.00	39.80	195	150	Horizontal
5	10416.5400	41.12	-38.97	38.88	-54.24	-13.00	41.24	144	330	Horizontal
6	12152.6300	40.13	-37.42	39.09	-53.46	-13.00	40.46	170	316	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	3472.1800	59.22	-46.27	29.50	-52.81	-13.00	39.81	155	214	Vertical
2	5208.2700	55.95	-45.26	32.98	-51.59	-13.00	38.59	142	258	Vertical
3	6944.3600	47.90	-43.85	36.01	-55.20	-13.00	42.20	288	273	Vertical
4	8680.4500	45.66	-41.62	37.88	-53.34	-13.00	40.34	194	14	Vertical
5	10416.5400	41.09	-38.97	38.88	-54.27	-13.00	41.27	172	152	Vertical
6	12152.6300	40.69	-37.42	39.09	-52.90	-13.00	39.90	235	287	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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 t (86-512) 62992980 sgs.china@sgs.com