

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 1 of 7

Appendix B.13

LTE Band 30

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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湖胜路1号的6号厂房南部 邮编: 215000

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

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 2 of 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.13	16.43	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.16	16.46	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.22	16.52	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.23	15.53	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.15	16.45	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.11	16.41	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.11	16.41	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.24	15.54	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.02	16.32	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.00	16.3	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.99	16.29	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.09	15.39	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.32	15.62	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.35	15.65	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.52	15.82	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.23	14.53	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.29	15.59	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.38	15.68	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.30	15.6	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.21	14.51	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.29	15.59	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.19	15.49	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.16	15.46	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.02	14.32	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.94	16.24	23.98	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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号厂房南座 邮编: 215000

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

Member of the SGS Group (SGS SA)



Report No.: SEWM2304000133RG01

Rev.: 01

Page: 3 of 7

Band30	10MHz	QPSK	27710	1RB#24	22.00	16.3	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.96	16.26	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	20.14	14.44	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.15	15.45	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.20	15.5	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.25	15.55	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.06	14.36	23.98	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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湖胜路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

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 4 of 7

Field Strength of Spurious Radiation

Test Band = B30_TM1

Test Channel = 10M 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	4611.1800	42.27	-45.66	30.55	-68.11	-40.00	28.11	158	222	Horizontal
2	6916.7700	41.11	-44.01	35.05	-63.10	-40.00	23.10	269	60	Horizontal
3	9222.3600	36.42	-40.24	36.72	-62.36	-40.00	22.36	132	61	Horizontal
4	11527.9500	33.47	-37.19	38.75	-60.23	-40.00	20.23	225	317	Horizontal
5	13833.5400	35.00	-36.08	40.60	-55.74	-40.00	15.74	145	345	Horizontal
6	16139.1300	34.63	-34.58	39.63	-55.58	-40.00	15.58	124	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	4611.1800	42.18	-45.66	30.55	-68.20	-40.00	28.20	112	3	Vertical
2	6916.7700	40.79	-44.01	35.05	-63.42	-40.00	23.42	158	360	Vertical
3	9222.3600	36.94	-40.24	36.72	-61.84	-40.00	21.84	269	118	Vertical
4	11527.9500	33.43	-37.19	38.75	-60.27	-40.00	20.27	236	356	Vertical
5	13833.5400	34.37	-36.08	40.60	-56.37	-40.00	16.37	162	90	Vertical
6	16139.1300	34.83	-34.58	39.63	-55.38	-40.00	15.38	154	59	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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湖胜路1号的6号厂房南面 邮编: 215000

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

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 5 of 7

Test Band = B30_TM1

Test Channel = 5M 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	4610.6800	43.98	-45.66	30.54	-66.40	-40.00	26.40	112	46	Horizontal
2	6916.0200	41.03	-44.01	35.05	-63.19	-40.00	23.19	187	91	Horizontal
3	9221.3600	35.62	-40.24	36.72	-63.16	-40.00	23.16	156	357	Horizontal
4	11526.7000	32.88	-37.20	38.75	-60.83	-40.00	20.83	236	269	Horizontal
5	13832.0400	34.87	-36.09	40.60	-55.89	-40.00	15.89	247	60	Horizontal
6	16137.3800	34.69	-34.58	39.63	-55.52	-40.00	15.52	145	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	4610.6800	43.60	-45.66	30.54	-66.78	-40.00	26.78	152	237	Vertical
2	6916.0200	40.70	-44.01	35.05	-63.52	-40.00	23.52	165	272	Vertical
3	9221.3600	35.63	-40.24	36.72	-63.15	-40.00	23.15	223	342	Vertical
4	11526.7000	32.69	-37.20	38.75	-61.02	-40.00	21.02	269	43	Vertical
5	13832.0400	33.53	-36.09	40.60	-57.23	-40.00	17.23	154	272	Vertical
6	16137.3800	34.20	-34.58	39.63	-56.01	-40.00	16.01	258	253	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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号厂房南面 邮编: 215000

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

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 6 of 7

Test Band = B30_TM1
Test Channel = 5M 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	4615.6800	42.61	-45.66	30.56	-67.75	-40.00	27.75	187	46	Horizontal
2	6923.5200	41.47	-43.97	35.06	-62.69	-40.00	22.69	154	358	Horizontal
3	9231.3600	35.40	-40.24	36.74	-63.36	-40.00	23.36	269	42	Horizontal
4	11539.2000	32.73	-37.15	38.75	-60.92	-40.00	20.92	132	136	Horizontal
5	13847.0400	36.11	-35.95	40.63	-54.48	-40.00	14.48	145	121	Horizontal
6	16154.8800	34.72	-34.60	39.68	-55.45	-40.00	15.45	121	299	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	4615.6800	42.74	-45.66	30.56	-67.62	-40.00	27.62	152	360	Vertical
2	6923.5200	40.35	-43.97	35.06	-63.81	-40.00	23.81	147	283	Vertical
3	9231.3600	35.84	-40.24	36.74	-62.92	-40.00	22.92	269	300	Vertical
4	11539.2000	32.59	-37.15	38.75	-61.06	-40.00	21.06	132	61	Vertical
5	13847.0400	33.84	-35.95	40.63	-56.75	-40.00	16.75	283	255	Vertical
6	16154.8800	34.35	-34.60	39.68	-55.82	-40.00	15.82	112	226	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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号厂房南面 邮编: 215000

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

Report No.: SEWM2304000133RG01

Rev.: 01

Page: 7 of 7

Test Band = B30_TM1

Test Channel = 5M 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	4620.6800	44.96	-45.66	30.57	-65.39	-40.00	25.39	165	30	Horizontal
2	6931.0200	40.96	-43.93	35.08	-63.15	-40.00	23.15	169	120	Horizontal
3	9241.3600	35.75	-40.24	36.76	-62.99	-40.00	22.99	232	272	Horizontal
4	11551.7000	32.75	-37.10	38.76	-60.85	-40.00	20.85	132	330	Horizontal
5	13862.0400	34.10	-35.81	40.65	-56.32	-40.00	16.32	165	135	Horizontal
6	16172.3800	34.38	-34.61	39.74	-55.76	-40.00	15.76	258	268	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	4620.6800	43.36	-45.66	30.57	-66.99	-40.00	26.99	157	300	Vertical
2	6931.0200	41.03	-43.93	35.08	-63.08	-40.00	23.08	166	353	Vertical
3	9241.3600	36.30	-40.24	36.76	-62.44	-40.00	22.44	132	360	Vertical
4	11551.7000	32.89	-37.10	38.76	-60.71	-40.00	20.71	232	331	Vertical
5	13862.0400	33.65	-35.81	40.65	-56.77	-40.00	16.77	258	255	Vertical
6	16172.3800	34.58	-34.61	39.74	-55.56	-40.00	15.56	169	347	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---



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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号厂房南部 邮编: 215000

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