

Report No.: SEWM2304000133RG07

Rev.: 01

Page: 1 of 7

Appendix B.7

LTE Band 13



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 limit of Client's instructions. The Company's responsibility is limited to the documents issued and 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.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWM2304000133RG07
Rev.: 01
Page: 2 of 7

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.61	23.00	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.57	22.96	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.79	22.18	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.69	23.08	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.64	23.03	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.72	22.11	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.69	23.08	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.67	23.06	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.63	23.02	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.76	22.15	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.84	22.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.84	22.23	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.93	22.32	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.81	21.20	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.88	22.27	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.97	22.36	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.95	22.34	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.78	21.17	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.98	22.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.93	22.32	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.86	22.25	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.76	21.15	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.63	23.02	34.77	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/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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. Consequently, the Company does not accept any responsibility for any statement made outside the scope of the 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胜浦路1号的6号厂房南部 邮编: 215000

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



Report No.: SEWM2304000133RG07

Rev.: 01

Page: 3 of 7

Band13	10MHz	QPSK	23230	1RB#24	23.72	23.11	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.61	23.00	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.79	22.18	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.80	22.19	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.96	22.35	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.91	22.30	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.84	21.23	34.77	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 limit of Client's instructions. The Company's responsibility is limited to the documents issued and does not extend 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.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com



Report No.: SEWM2304000133RG07
 Rev.: 01
 Page: 4 of 7

Field Strength of Spurious Radiation

Test Band = LTE_13_5M _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.5693	27.13	-19.23	25.89	-61.47	-13.00	48.47	347	344	Horizontal
2	2303.913	24.33	-17.92	27.62	-61.23	-13.00	48.23	237	250	Horizontal
3	3898.4949	51.96	-49.05	30.59	-61.76	-13.00	48.76	236	354	Horizontal
4	5245.7123	51.11	-46.47	33.31	-57.31	-13.00	44.31	221	237	Horizontal
5	7500.175	49.79	-43.17	36.60	-52.04	-13.00	39.04	142	2	Horizontal
6	9034.3017	48.77	-41.80	38.73	-49.56	-13.00	36.56	273	138	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.8194	25.22	-19.23	25.89	-63.38	-13.00	50.38	304	210	Vertical
2	2413.6767	25.46	-17.54	27.83	-59.51	-13.00	46.51	322	261	Vertical
3	3978.999	52.33	-49.08	31.02	-60.99	-13.00	47.99	259	300	Vertical
4	5441.7221	51.43	-45.61	33.35	-56.09	-13.00	43.09	265	163	Vertical
5	7114.1057	49.25	-43.87	36.96	-52.92	-13.00	39.92	211	281	Vertical
6	9051.1026	48.68	-41.88	38.70	-49.76	-13.00	36.76	171	25	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 herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. The Company's responsibility is limited to the performance of the document and the Company is not a party 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.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com



Report No.: SEWM2304000133RG07
 Rev.: 01
 Page: 5 of 7

Test Band = LTE_13_5M_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.5699	28.28	-19.24	25.88	-60.34	-40.00	20.34	142	2	Horizontal
2	2525.4407	24.75	-17.85	28.15	-60.21	-13.00	47.21	216	102	Horizontal
3	3647.5324	52.72	-49.16	30.39	-61.31	-13.00	48.31	211	236	Horizontal
4	5269.5135	51.25	-46.56	33.32	-57.25	-13.00	44.25	273	90	Horizontal
5	7459.573	49.78	-43.47	36.68	-52.27	-13.00	39.27	195	296	Horizontal
6	8413.7207	50.38	-43.08	37.71	-50.25	-13.00	37.25	192	252	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.5699	26.19	-19.24	25.88	-62.43	-40.00	22.43	310	240	Vertical
2	2411.4264	24.81	-17.53	27.82	-60.16	-13.00	47.16	211	44	Vertical
3	3507.8754	52.81	-49.14	29.85	-61.74	-13.00	48.74	210	280	Vertical
4	5494.2247	51.03	-45.47	33.13	-56.57	-13.00	43.57	259	207	Vertical
5	7479.874	49.85	-43.32	36.64	-52.09	-13.00	39.09	171	358	Vertical
6	9031.1516	48.45	-41.79	38.74	-49.86	-13.00	36.86	304	295	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 herein reflects the Company's findings at the time of its intervention only and within the limit of Client's instructions. The Company's responsibility is limited to the documents issued and it is not liable for any subsequent part of 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.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE_13_5M_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.8206	29.56	-19.25	25.87	-59.08	-40.00	19.08	216	347	Horizontal
2	2441.4302	26.28	-17.67	27.88	-58.77	-13.00	45.77	223	44	Horizontal
3	3892.8946	52.13	-49.13	30.57	-61.69	-13.00	48.69	316	325	Horizontal
4	5247.1124	51.06	-46.48	33.34	-57.34	-13.00	44.34	195	45	Horizontal
5	7141.4071	49.38	-44.03	37.07	-52.84	-13.00	39.84	205	241	Horizontal
6	8548.8274	48.55	-42.27	39.07	-49.91	-13.00	36.91	192	295	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5706	26.03	-19.25	25.87	-62.61	-40.00	22.61	216	81	Vertical
2	2208.9011	24.22	-17.90	27.66	-61.28	-13.00	48.28	193	164	Vertical
3	3900.945	52.11	-49.03	30.61	-61.57	-13.00	48.57	203	167	Vertical
4	5476.3738	51.03	-45.50	33.24	-56.49	-13.00	43.49	171	65	Vertical
5	7479.874	49.87	-43.32	36.64	-52.07	-13.00	39.07	259	310	Vertical
6	9038.8519	48.63	-41.82	38.72	-49.73	-13.00	36.73	304	25	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 fulfilling all their rights and obligations under the transaction documents. This document cannot be reproduced except with the written permission of the Company. Any unauthorized copying, distribution 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 audit above is based on the information provided by the client and is retained by the auditor for 3 years after the audit date.

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: CNcheck@sgs.com





Report No.: SEWM2304000133RG07
 Rev.: 01
 Page: 7 of 7

Test Band = LTE_13_10M_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.0694	27.69	-19.23	25.89	-60.91	-13.00	47.91	323	304	Horizontal
2	1588.8236	23.31	-19.30	25.82	-65.43	-40.00	25.43	192	128	Horizontal
3	3947.8474	52.19	-49.10	30.89	-61.28	-13.00	48.28	273	2	Horizontal
4	5318.1659	51.74	-46.48	33.20	-56.80	-13.00	43.80	211	251	Horizontal
5	7107.8054	49.50	-43.84	36.93	-52.67	-13.00	39.67	236	345	Horizontal
6	9038.5019	48.36	-41.82	38.72	-50.00	-13.00	37.00	142	172	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.3194	25.57	-19.23	25.89	-63.03	-13.00	50.03	304	207	Vertical
2	1580.3225	23.58	-19.28	25.84	-65.12	-40.00	25.12	304	2	Vertical
3	2558.1948	25.01	-17.67	28.32	-59.60	-13.00	46.60	188	244	Vertical
4	4224.0112	52.54	-48.52	31.79	-59.45	-13.00	46.45	265	172	Vertical
5	5452.9226	51.02	-45.54	33.38	-56.40	-13.00	43.40	171	315	Vertical
6	7501.5751	49.82	-43.20	36.61	-52.03	-13.00	39.03	259	1	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 herein reflects the Company's findings at the time of its intervention only and within the limit of Client's instructions. The Company's responsibility is limited to the documents issued in the course of its intervention and does not extend 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

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

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9号厂房南部 邮编: 215000

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