

Appendix B.20

LTE Band 48



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号厂房南部 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 Result

ANT0

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	EIRP (dBm/10MHz)	Verdict
Band48	20MHz	QPSK	55340	1RB#0	23.02	18.73	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.22	18.93	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.24	18.95	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.23	17.94	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	23.43	19.14	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	23.58	19.29	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	23.28	18.99	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	22.34	18.05	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	23.05	18.76	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.29	19	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	23.16	18.87	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	22.31	18.02	23.00	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

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

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

Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation (Worse)

Test Band = LTE Band 48_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7681.625	43.87	-45.09	36.58	-59.90	-40.00	19.90	Horizontal
2	9563.7917	40.42	-42.06	38.11	-58.80	-40.00	18.80	Horizontal
3	10769.8542	39.28	-40.56	39.19	-57.35	-40.00	17.35	Horizontal
4	13719.6042	37.34	-38.06	40.26	-55.73	-40.00	15.73	Horizontal
5	14830.7917	37.23	-37.80	40.24	-55.60	-40.00	15.60	Horizontal
6	17505.0208	35.15	-36.15	42.13	-54.13	-40.00	14.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7225.9375	43.92	-45.60	36.14	-60.79	-40.00	20.79	Vertical
2	9297.8542	41.77	-42.94	37.87	-58.56	-40.00	18.56	Vertical
3	11398.0417	38.35	-39.72	39.32	-57.31	-40.00	17.31	Vertical
4	13723.9167	37.54	-38.09	40.27	-55.54	-40.00	15.54	Vertical
5	14623.7917	37.15	-38.14	40.40	-55.85	-40.00	15.85	Vertical
6	17969.3333	36.64	-37.07	45.10	-50.58	-40.00	10.58	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 t (86-512) 62992980 www.sgs.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6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band 48_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7322.25	43.85	-45.91	36.37	-60.95	-40.00	20.95	Horizontal
2	8870.9167	41.90	-43.64	37.42	-59.58	-40.00	19.58	Horizontal
3	10246.125	40.42	-41.62	38.72	-57.74	-40.00	17.74	Horizontal
4	12050.6667	38.26	-38.99	39.17	-56.82	-40.00	16.82	Horizontal
5	13890.6667	37.51	-38.36	40.65	-55.46	-40.00	15.46	Horizontal
6	17499.75	35.42	-36.12	42.10	-53.86	-40.00	13.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7219.2292	44.17	-45.56	36.13	-60.52	-40.00	20.52	Vertical
2	8753.5208	42.33	-43.78	37.25	-59.46	-40.00	19.46	Vertical
3	10361.6042	39.75	-41.18	38.83	-57.87	-40.00	17.87	Vertical
4	11141.6875	38.68	-40.04	39.37	-57.25	-40.00	17.25	Vertical
5	13668.8125	37.58	-38.05	40.14	-55.59	-40.00	15.59	Vertical
6	16992.7917	36.76	-36.85	38.89	-56.46	-40.00	16.46	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 t (86-512) 62992980 www.sgs.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6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE Band 48_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7361.5417	43.89	-45.73	36.47	-60.64	-40.00	20.64	Horizontal
2	8847.4375	42.00	-43.71	37.39	-59.59	-40.00	19.59	Horizontal
3	10590.1667	39.49	-41.13	39.03	-57.87	-40.00	17.87	Horizontal
4	11401.3958	38.57	-39.72	39.32	-57.09	-40.00	17.09	Horizontal
5	13921.3333	37.56	-38.51	40.72	-55.49	-40.00	15.49	Horizontal
6	17760.4167	36.25	-37.94	43.77	-53.18	-40.00	13.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7315.0625	43.95	-45.94	36.36	-60.90	-40.00	20.90	Vertical
2	9340.0208	41.81	-42.89	37.91	-58.43	-40.00	18.43	Vertical
3	11144.5625	38.72	-40.04	39.37	-57.21	-40.00	17.21	Vertical
4	12036.2917	38.27	-38.86	39.18	-56.68	-40.00	16.68	Vertical
5	13852.3333	37.82	-38.43	40.56	-55.31	-40.00	15.31	Vertical
6	17512.2083	35.46	-36.19	42.18	-53.82	-40.00	13.82	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) - Pre-amplifier (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-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 t (86-512) 62992980 www.sgs.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6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com