

Appendix B

WCDMA Band II & IV & V



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



CONTENT

1.	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	TEST RESULT.....	3
2.	FIELD STRENGTH OF SPURIOUS RADIATION.....	4
2.1.	TEST BAND = WCDMA BAND II	4
2.1.1.	TEST MODE =WCDMA/TM1.....	4
2.1.1.1.	TEST CHANNEL = LCH.....	4
2.1.1.2.	TEST CHANNEL = MCH	5
2.1.1.3.	TEST CHANNEL = HCH	5
2.2.	TEST BAND = WCDMA BAND IV	6
2.2.1.	TEST MODE =WCDMA/TM1.....	6
2.2.1.1.	TEST CHANNEL = LCH.....	6
2.2.1.2.	TEST CHANNEL = MCH	7
2.2.1.3.	TEST CHANNEL = HCH	7
2.3.	TEST BAND = WCDMA BAND V	8
2.3.1.	TEST MODE =WCDMA/TM1.....	8
2.3.1.1.	TEST CHANNEL = LCH.....	8
2.3.1.2.	TEST CHANNEL = MCH	9
2.3.1.3.	TEST CHANNEL = HCH	9





1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
Band2	9262	23.27	25.27	33	PASS
Band2	9400	23.36	25.36	33	PASS
Band2	9538	23.46	25.46	33	PASS
Band4	1312	23.37	25.37	30	PASS
Band4	1413	23.12	25.12	30	PASS
Band4	1513	23.27	25.27	30	PASS

Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
Band5	4132	23.61	23.46	38.5	PASS
Band5	4182	23.65	23.50	38.5	PASS
Band5	4233	23.59	23.44	38.5	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$

$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



2. Field Strength of Spurious Radiation

2.1. Test Band = WCDMA Band II

2.1.1. Test Mode = WCDMA/TM1

2.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
-74.84	-13.00	61.84	-74.84	Vertical
-63.05	-13.00	50.05	-63.05	Vertical
-63.17	-13.00	50.17	-63.17	Vertical
-48.13	-13.00	35.13	-48.13	Vertical
-54.73	-13.00	41.73	-54.73	Vertical
-58.78	-13.00	45.78	-58.78	Vertical
62.750000	-74.84	-13.00	61.84	Horizontal
197.750000	-63.05	-13.00	50.05	Horizontal
265.450000	-63.17	-13.00	50.17	Horizontal
3702.975000	-48.13	-13.00	35.13	Horizontal
5554.012500	-54.73	-13.00	41.73	Horizontal
11120.287500	-58.78	-13.00	45.78	Horizontal





2.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
58.700000	-72.93	-13.00	59.93	Vertical
197.450000	-62.79	-13.00	49.79	Vertical
263.450000	-62.22	-13.00	49.22	Vertical
3758.062500	-44.82	-13.00	31.82	Vertical
5636.400000	-57.57	-13.00	44.57	Vertical
11286.037500	-59.58	-13.00	46.58	Vertical
58.700000	-72.93	-13.00	59.93	Horizontal
197.450000	-62.79	-13.00	49.79	Horizontal
263.450000	-62.22	-13.00	49.22	Horizontal
3758.062500	-44.82	-13.00	31.82	Horizontal
5636.400000	-57.57	-13.00	44.57	Horizontal
11286.037500	-59.58	-13.00	46.58	Horizontal

2.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
80.250000	-66.36	-13.00	53.36	Vertical
261.500000	-62.81	-13.00	49.81	Vertical
564.262500	-71.38	-13.00	58.38	Vertical
3813.150000	-56.64	-13.00	43.64	Vertical
5720.250000	-62.30	-13.00	49.30	Vertical
9248.287500	-60.90	-13.00	47.90	Vertical
64.600000	-79.22	-13.00	66.22	Horizontal
198.500000	-64.53	-13.00	51.53	Horizontal
263.450000	-63.86	-13.00	50.86	Horizontal
3813.150000	-55.84	-13.00	42.84	Horizontal
5719.762500	-56.27	-13.00	43.27	Horizontal
9216.112500	-61.31	-13.00	48.31	Horizontal



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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



2.2. Test Band = WCDMA Band IV

2.2.1. Test Mode = WCDMA/TM1

2.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.650000	-79.86	-13.00	66.86	Vertical
124.950000	-84.90	-13.00	71.90	Vertical
359.650000	-84.39	-13.00	71.39	Vertical
3426.562500	-32.38	-13.00	19.38	Vertical
5139.637500	-38.75	-13.00	25.75	Vertical
10280.325000	-57.38	-13.00	44.38	Vertical
62.800000	-75.92	-13.00	62.92	Horizontal
271.600000	-86.12	-13.00	73.12	Horizontal
479.745833	-83.26	-13.00	70.26	Horizontal
3423.150000	-29.06	-13.00	16.06	Horizontal
5134.275000	-47.32	-13.00	34.32	Horizontal
10280.325000	-53.05	-13.00	40.05	Horizontal





2.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.150000	-80.21	-13.00	67.21	Vertical
125.000000	-85.14	-13.00	72.14	Vertical
341.850000	-84.83	-13.00	71.83	Vertical
3463.612500	-32.03	-13.00	19.03	Vertical
5194.725000	-39.51	-13.00	26.51	Vertical
10401.712500	-56.77	-13.00	43.77	Vertical
56.050000	-74.88	-13.00	61.88	Horizontal
102.150000	-83.22	-13.00	70.22	Horizontal
283.850000	-85.69	-13.00	72.69	Horizontal
3463.612500	-32.23	-13.00	19.23	Horizontal
5200.087500	-44.58	-13.00	31.58	Horizontal
10401.712500	-51.86	-13.00	38.86	Horizontal

2.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
71.850000	-70.99	-13.00	57.99	Vertical
125.000000	-84.86	-13.00	71.86	Vertical
357.700000	-84.20	-13.00	71.20	Vertical
3503.100000	-34.47	-13.00	21.47	Vertical
5260.050000	-41.93	-13.00	28.93	Vertical
10520.662500	-55.70	-13.00	42.70	Vertical
63.150000	-80.21	-13.00	67.21	Horizontal
125.000000	-85.14	-13.00	72.14	Horizontal
341.850000	-84.83	-13.00	71.83	Horizontal
3463.612500	-32.03	-13.00	19.03	Horizontal
5194.725000	-39.51	-13.00	26.51	Horizontal
10401.712500	-56.77	-13.00	43.77	Horizontal



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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2.3. Test Band = WCDMA Band V

2.3.1. Test Mode = WCDMA/TM1

2.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.050000	-80.19	-13.00	67.19	Vertical
125.000000	-83.99	-13.00	70.99	Vertical
308.250000	-85.72	-13.00	72.72	Vertical
1654.000000	-59.77	-13.00	46.77	Vertical
2691.500000	-57.21	-13.00	44.21	Vertical
4391.812500	-64.91	-13.00	51.91	Vertical
62.950000	-76.11	-13.00	63.11	Horizontal
110.500000	-91.59	-13.00	78.59	Horizontal
260.500000	-85.42	-13.00	72.42	Horizontal
1651.000000	-61.34	-13.00	48.34	Horizontal
2802.500000	-56.81	-13.00	43.81	Horizontal
5070.900000	-64.63	-13.00	51.63	Horizontal



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC 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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



2.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.100000	-79.89	-13.00	66.89	Vertical
124.950000	-84.50	-13.00	71.50	Vertical
327.750000	-85.25	-13.00	72.25	Vertical
1675.000000	-55.54	-13.00	42.54	Vertical
2635.000000	-46.47	-13.00	33.47	Vertical
6057.112500	-62.99	-13.00	49.99	Vertical
64.050000	-80.19	-13.00	67.19	Horizontal
125.000000	-83.99	-13.00	70.99	Horizontal
308.250000	-85.72	-13.00	72.72	Horizontal
1654.000000	-59.77	-13.00	46.77	Horizontal
2691.500000	-57.21	-13.00	44.21	Horizontal
4391.812500	-64.91	-13.00	51.91	Horizontal

2.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.700000	-74.94	-13.00	61.94	Vertical
110.800000	-91.14	-13.00	78.14	Vertical
275.700000	-86.07	-13.00	73.07	Vertical
1695.000000	-60.26	-13.00	47.26	Vertical
4287.000000	-65.01	-13.00	52.01	Vertical
7969.087500	-61.48	-13.00	48.48	Vertical
62.700000	-74.94	-13.00	61.94	Horizontal
110.800000	-91.14	-13.00	78.14	Horizontal
275.700000	-86.07	-13.00	73.07	Horizontal
1695.000000	-60.26	-13.00	47.26	Horizontal
4287.000000	-65.01	-13.00	52.01	Horizontal
7969.087500	-61.48	-13.00	48.48	Horizontal



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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

The End

