

Appendix B

WCDMA Band II & IV & V





CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	5
1.1. TEST RESULT.....	5
2. PEAK-TO-AVERAGE RATIO(CCDF).....	6
2.1. TEST RESULT.....	6
2.2. TEST PLOTS	6
3. MODULATION CHARACTERISTICS.....	11
3.1. TEST BAND = WCDMA BAND II	11
3.1.1. TEST MODE = UMTS/TM1	11
3.1.1.1. TEST CHANNEL = MCH	11
3.2. TEST BAND = WCDMA BAND IV.....	12
3.2.1. TEST MODE = UMTS/TM1	12
3.2.1.1. TEST CHANNEL = MCH	12
3.3. TEST BAND = WCDMA BAND V.....	13
3.3.1. TEST MODE = UMTS/TM1	13
3.3.1.1. TEST CHANNEL = MCH	13
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	14
4.1. TEST RESULT.....	14
4.2. TEST PLOTS	14
5. BAND EDGE COMPLIANCE	19
5.1. TEST RESULT.....	19
5.2. TEST PLOTS	19
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	23
6.1. TEST PLOTS	23
7. FIELD STRENGTH OF SPURIOUS RADIATION	33
FIRSTLY SUPPLY:.....	33
7.1. BAND = WCDMA_II _TM1.....	33
7.1.1. Test Channel = Low Channel	33
7.2. TEST BAND = WCDMA_II _TM1	34



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 Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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

7.2.1. Test Channel = Low Channel	34
7.3. TEST BAND = WCDMA_II_TM1	35
7.3.1. Test Channel = Middle Channel	35
7.4. TEST BAND = WCDMA_II_TM1	36
7.4.1. Test Channel = Middle Channel	36
7.5. TEST BAND = WCDMA_II_TM1	37
7.5.1. Test Channel = High Channel	37
7.6. TEST BAND = WCDMA_II_TM1	38
7.6.1. Test Channel = High Channel	38
7.7. TEST BAND = WCDMA_IV_TM1	39
7.7.1. Test Channel = Low Channel	39
7.8. TEST BAND = WCDMA_IV_TM1	40
7.8.1. Test Channel = Low Channel	40
7.9. TEST BAND = WCDMA_IV_TM1	41
7.9.1. Test Channel = Middle Channel	41
7.10. TEST BAND = WCDMA_IV_TM1	42
7.10.1. Test Channel = Middle Channel	42
7.11. TEST BAND = WCDMA_IV_TM1	43
7.11.1. Test Channel = High Channel	43
7.12. TEST BAND = WCDMA_IV_TM1	44
7.12.1. Test Channel = High Channel	44
7.13. TEST BAND = WCDMA_V_TM1	45
7.13.1. Test Channel = Low Channel	45
7.14. TEST BAND = WCDMA_V_TM1	46
7.14.1. Test Channel = Low Channel	46
7.15. TEST BAND = WCDMA_V_TM1	47
7.15.1. Test Channel = Middle Channel	47
7.16. TEST BAND = WCDMA_V_TM1	48
7.16.1. Test Channel = Middle Channel	48
7.17. TEST BAND = WCDMA_V_TM1	49
7.17.1. Test Channel = High Channel	49
7.18. TEST BAND = WCDMA_V_TM1	50
7.18.1. Test Channel = High Channel	50
SECONDLY SUPPLY:	51



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



7.13	Band = WCDMA_IV_TM1	51
7.13.1	hannel = High Channel.....	51
7.14	Band = WCDMA_IV_TM1	52
7.14.1	Channel = High Channel.....	52
8.	FREQUENCY STABILITY	53
8.1.	FREQUENCY Vs VOLTAGE	53
8.2.	FREQUENCY Vs TEMPERATURE	54



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



1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.37	22.78	33.00	PASS
Band II	9400	23.36	22.77	33.00	PASS
Band II	9538	23.48	22.89	33.00	PASS
Band IV	1312	22.10	21.51	30.00	PASS
Band IV	1413	22.19	21.6	30.00	PASS
Band IV	1513	22.16	21.57	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.52	19.46	38.45	PASS
Band V	4182	23.63	19.57	38.45	PASS
Band V	4233	23.49	19.43	38.45	PASS

Remark:

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

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

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



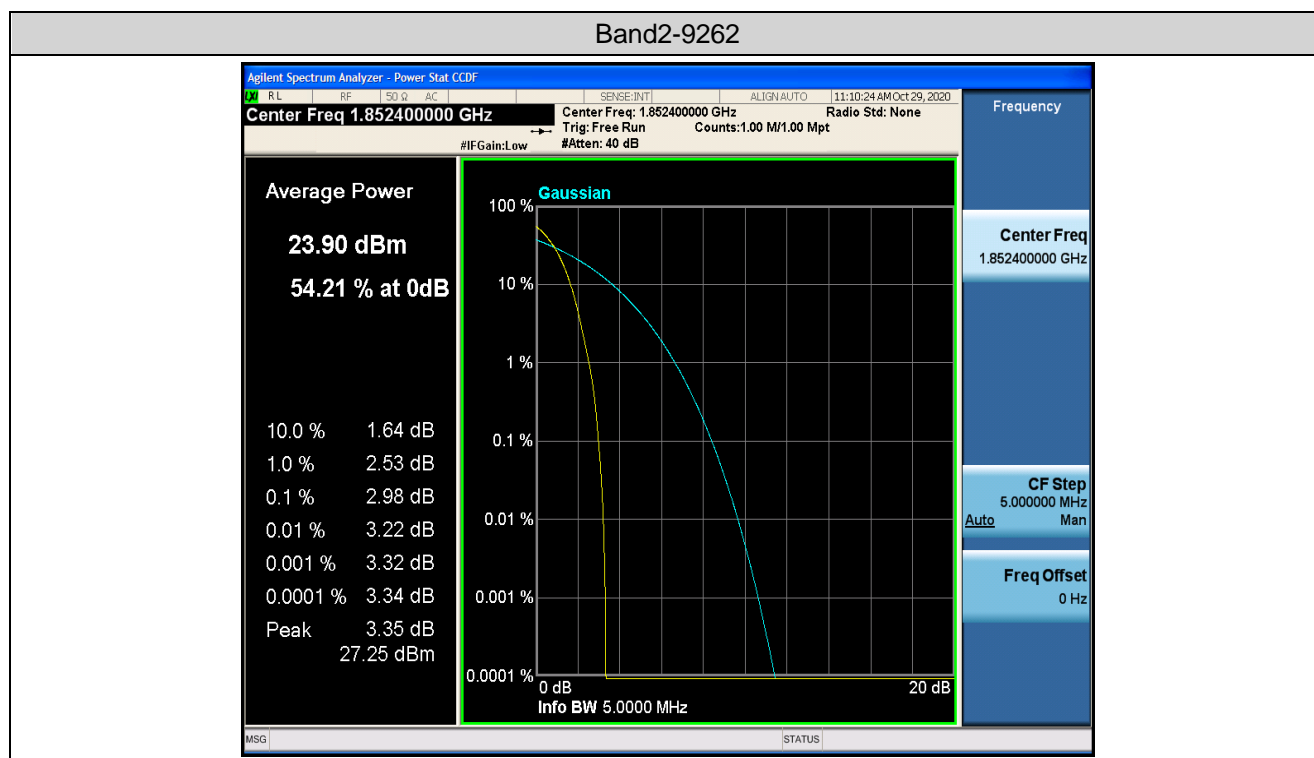


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	2.98	13	PASS
Band2	9400	2.88	13	PASS
Band2	9538	2.55	13	PASS
Band4	1312	2.9	13	PASS
Band4	1413	2.99	13	PASS
Band4	1513	3.02	13	PASS
Band5	4132	3.06	13	PASS
Band5	4182	3.2	13	PASS
Band5	4233	3.14	13	PASS

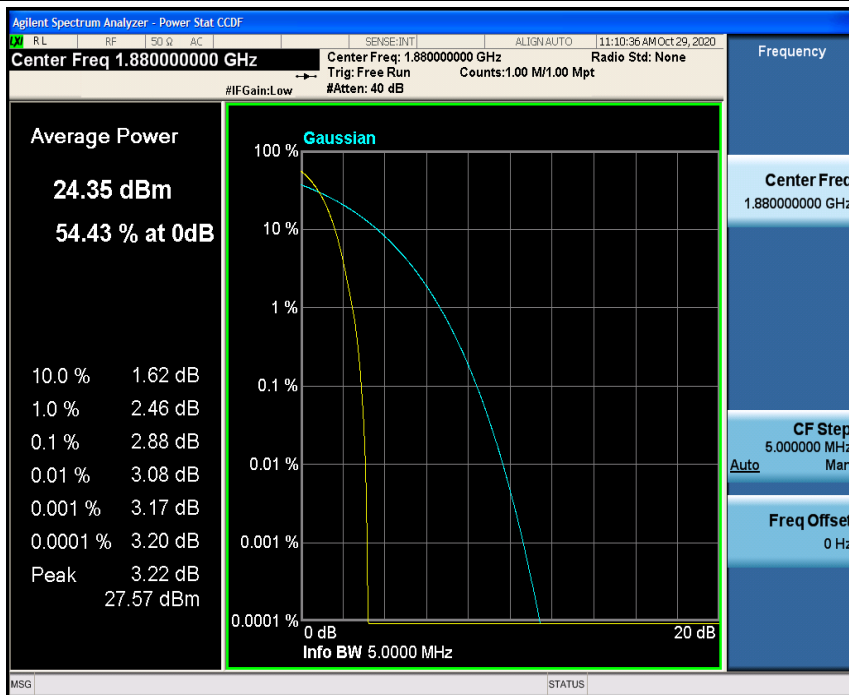
2.2. Test Plots



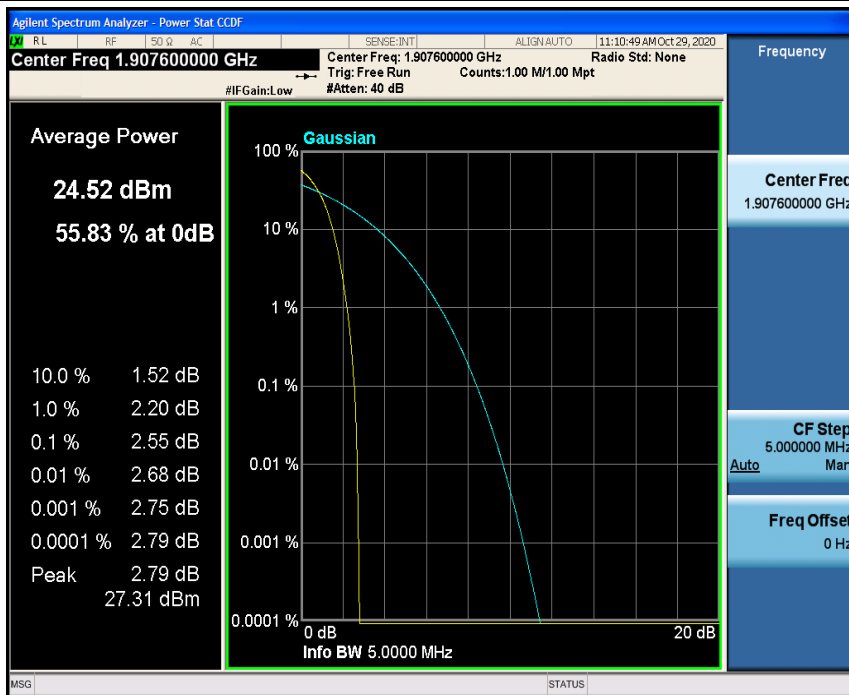
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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, 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

Band2-9400



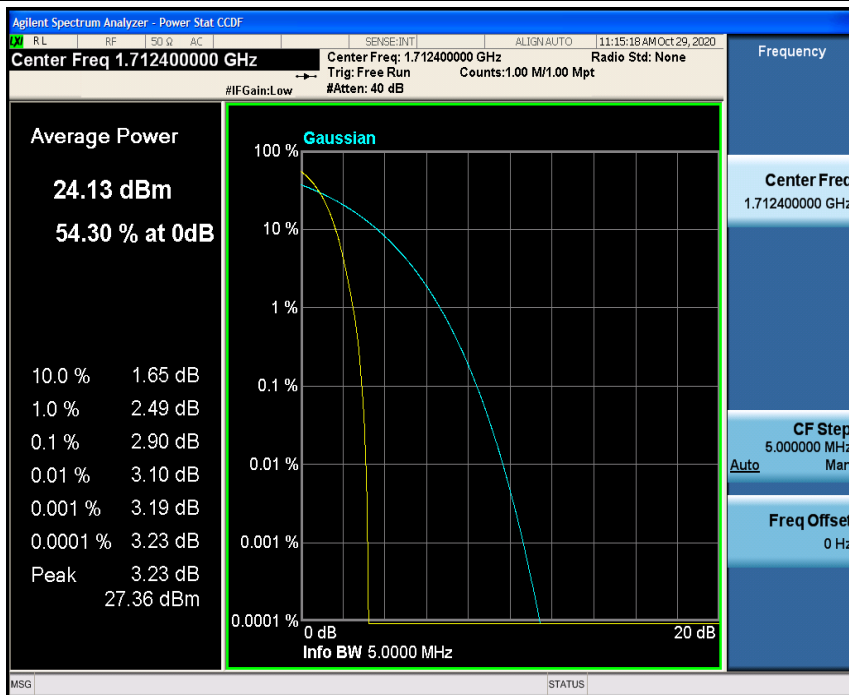
Band2-9538



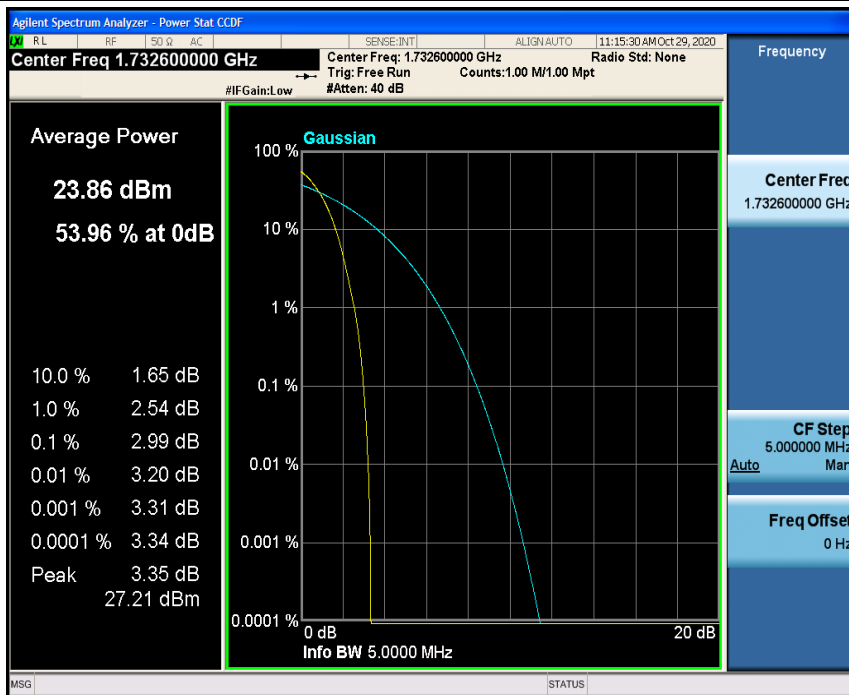
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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
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

Band4-1312



Band4-1413



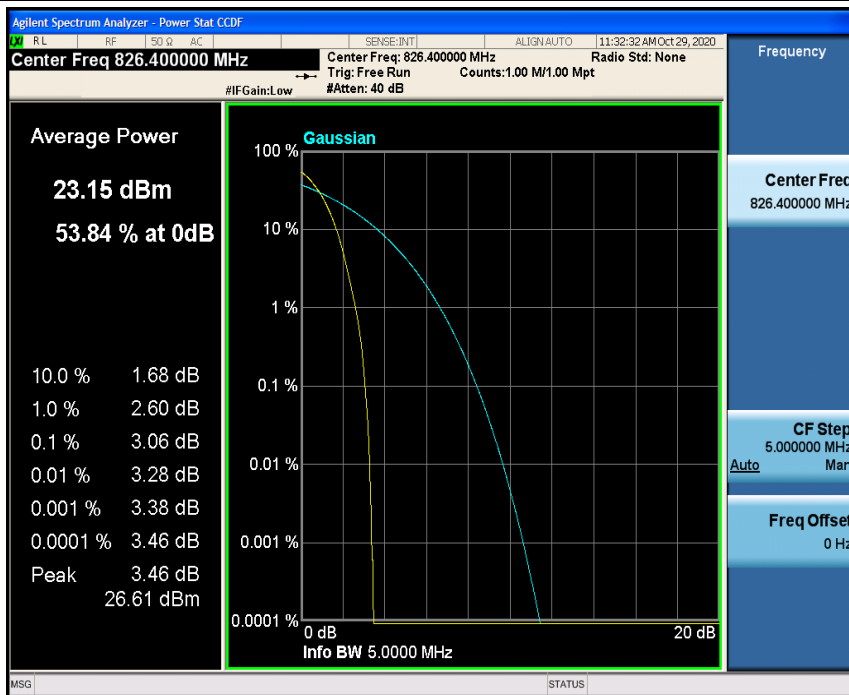
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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
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

Band4-1513

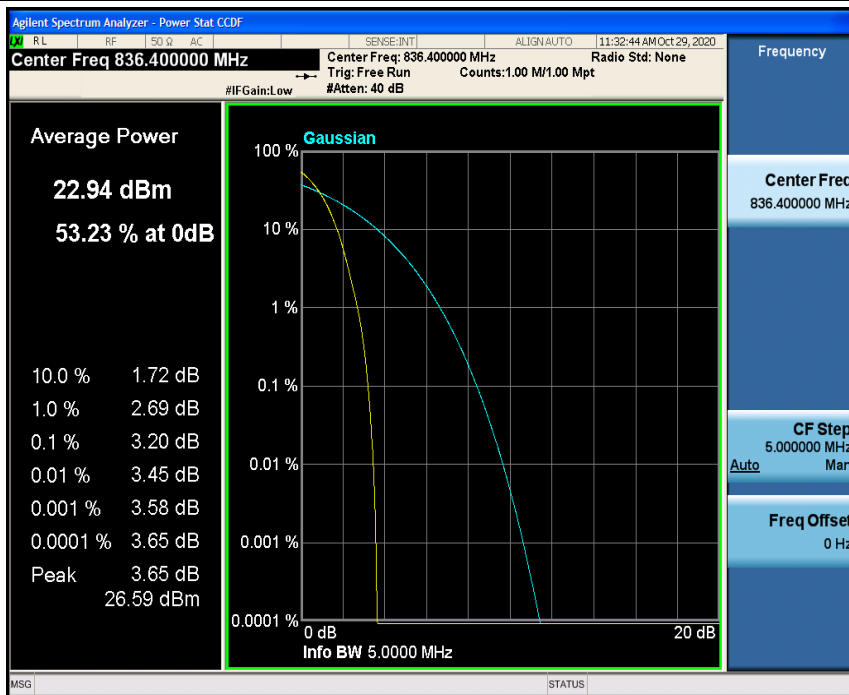


Band5-4132

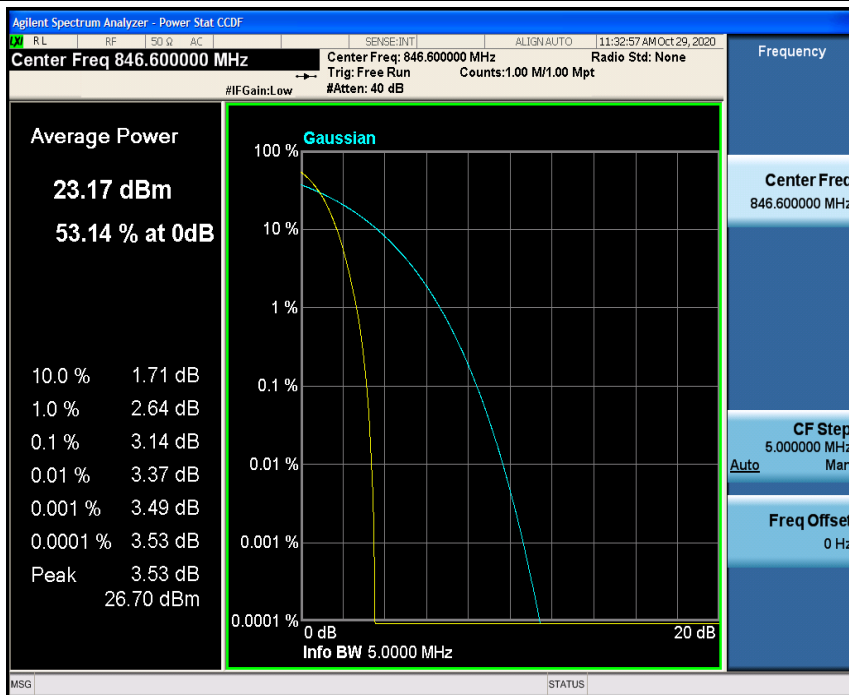


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band5-4182



Band5-4233



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.

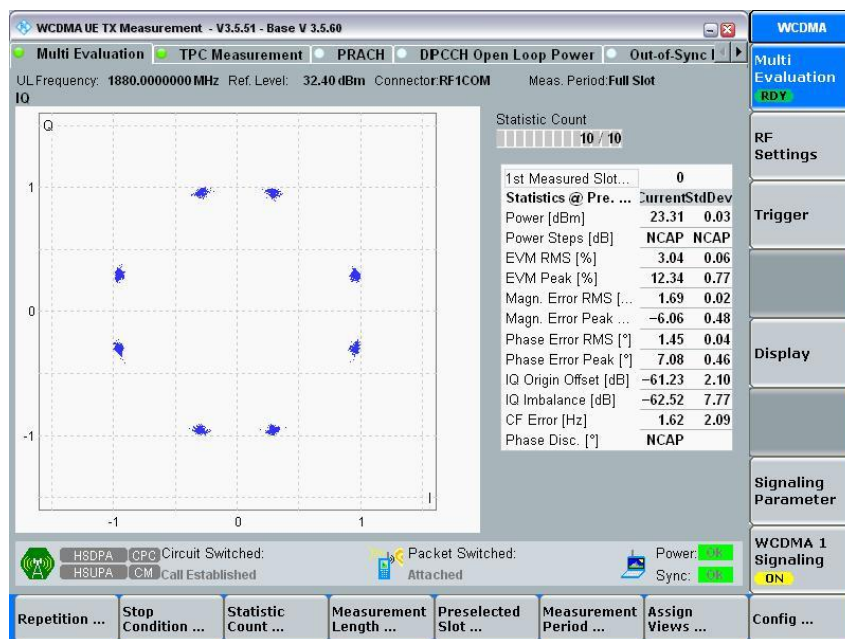
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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

3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

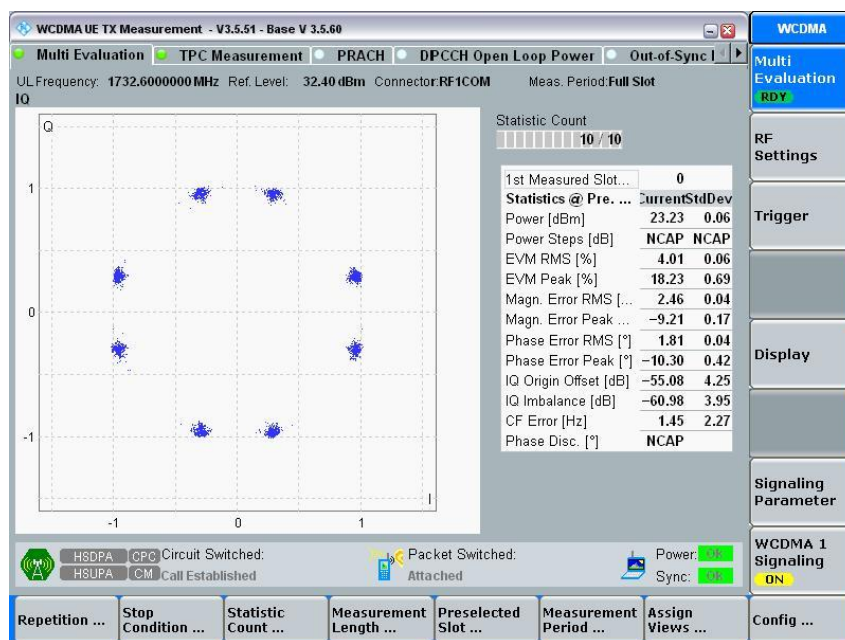
3.1.1.1. Test Channel = MCH



3.2. Test Band = WCDMA Band IV

3.2.1. Test Mode = UMTS/TM1

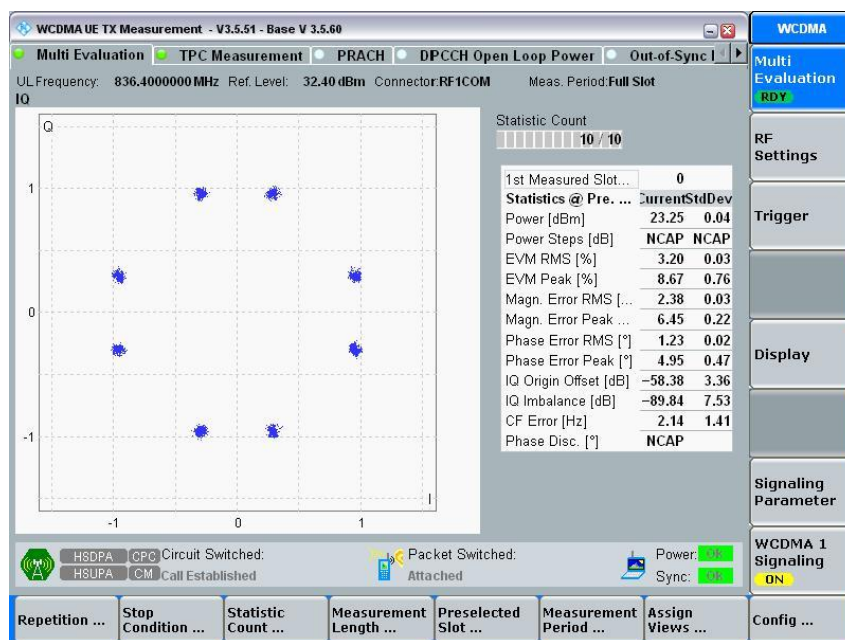
3.2.1.1. Test Channel = MCH



3.3. Test Band = WCDMA Band V

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH

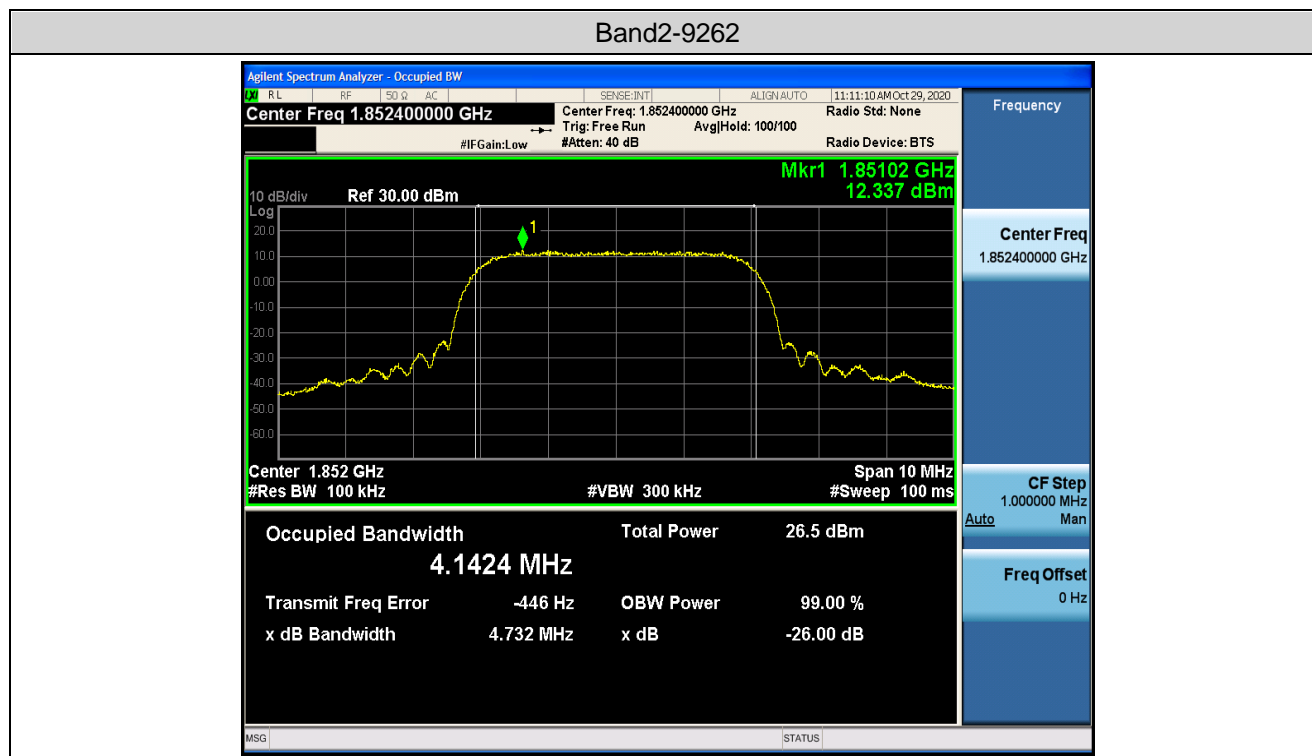


4. 26dB Bandwidth and Occupied Bandwidth

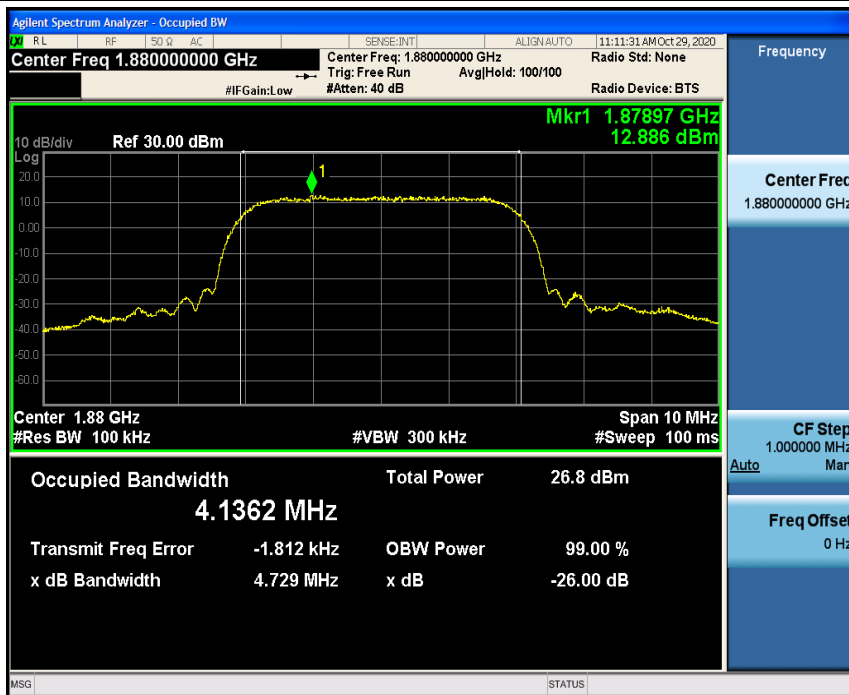
4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1424	4.732	---	PASS
Band2	9400	4.1362	4.729	---	PASS
Band2	9538	4.1486	4.764	---	PASS
Band4	1312	4.1464	4.732	---	PASS
Band4	1413	4.1362	4.732	---	PASS
Band4	1513	4.1415	4.722	---	PASS
Band5	4132	4.1374	4.713	---	PASS
Band5	4182	4.1417	4.709	---	PASS
Band5	4233	4.1420	4.723	---	PASS

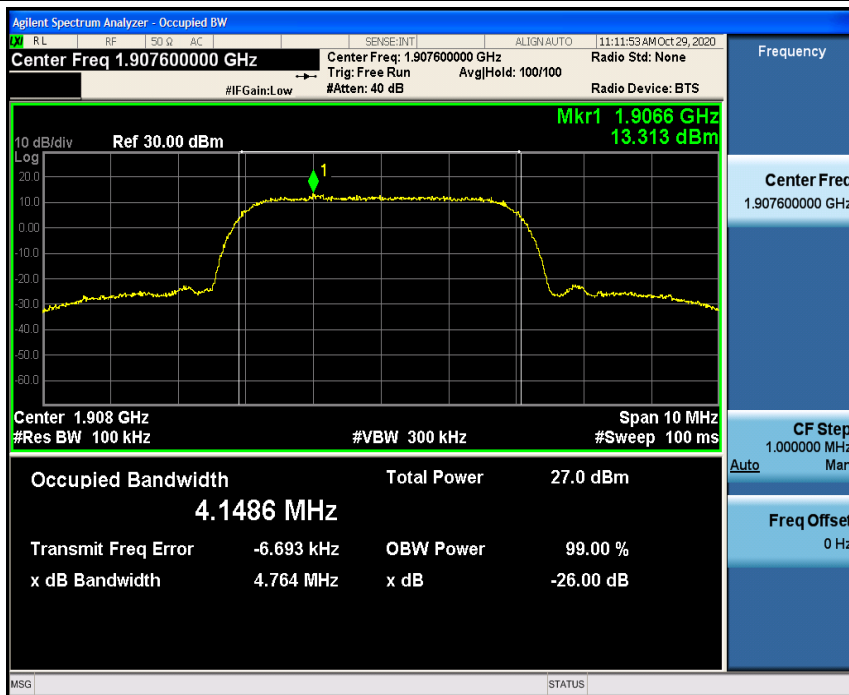
4.2. Test Plots



Band2-9400



Band2-9538

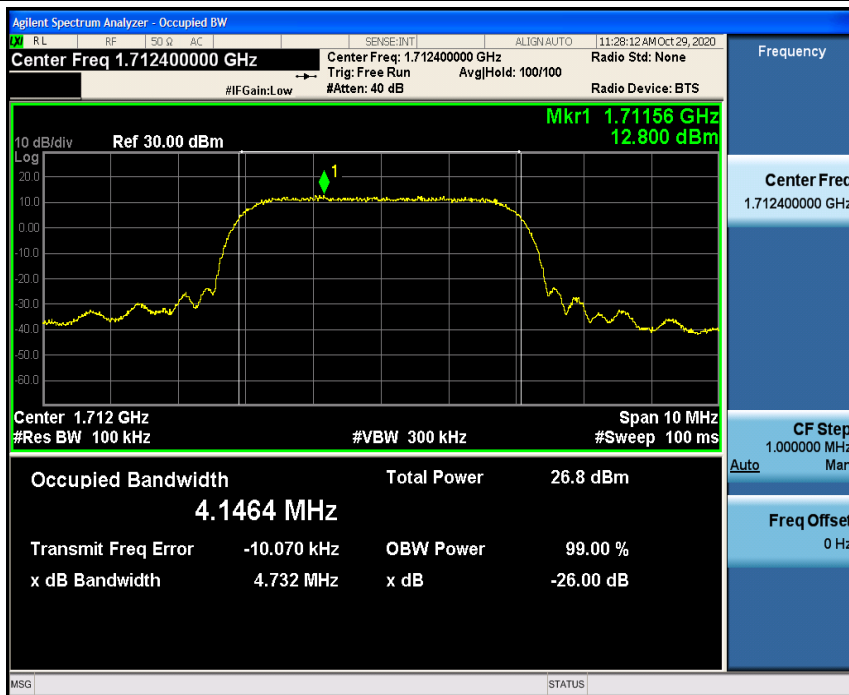


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

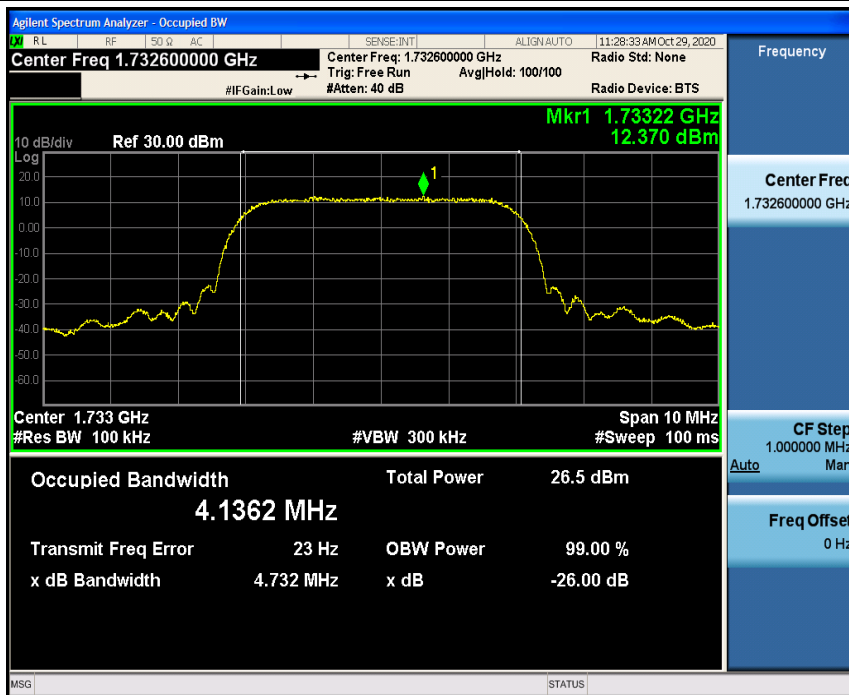
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Band4-1312



Band4-1413

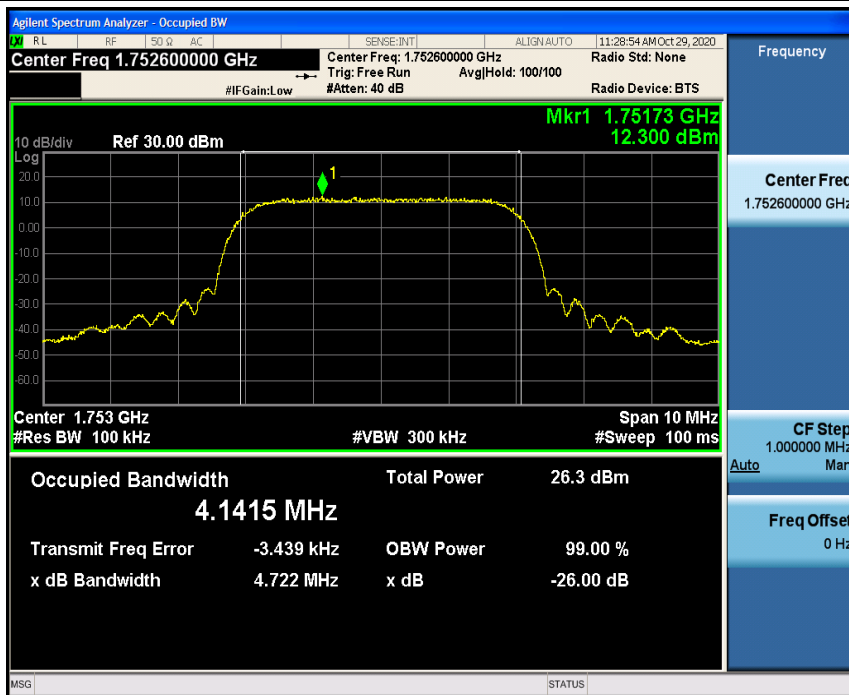


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

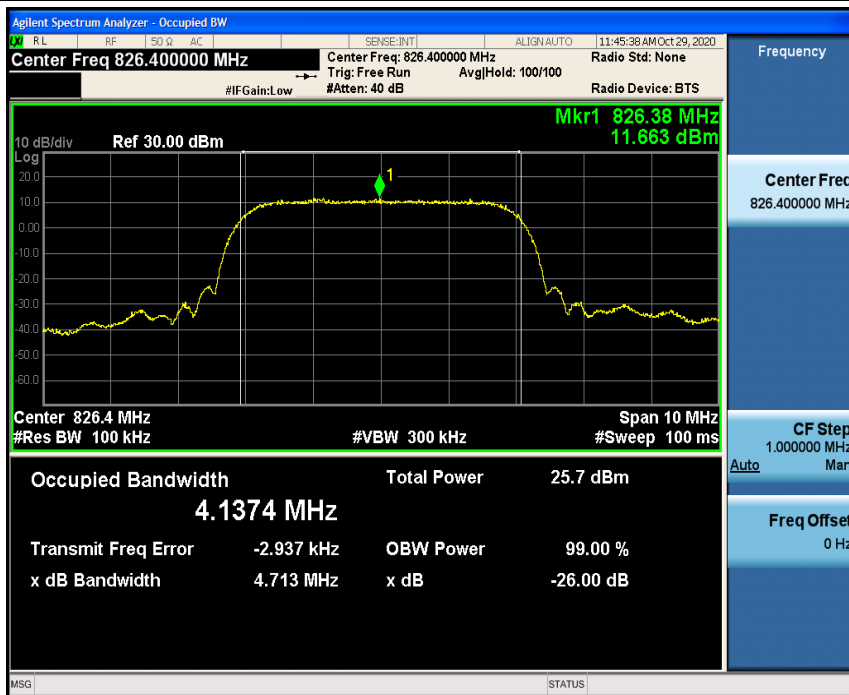
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

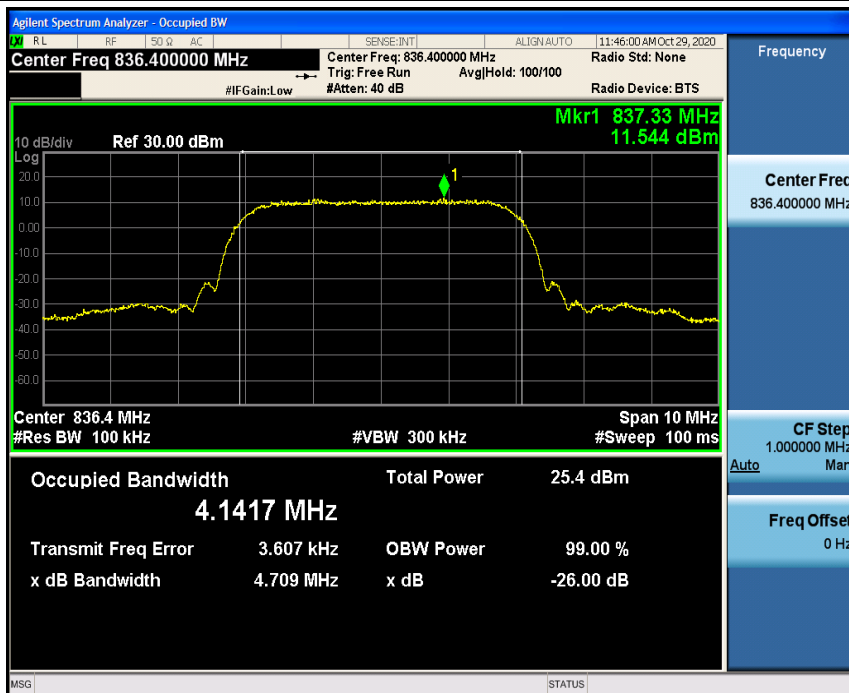
Band4-1513



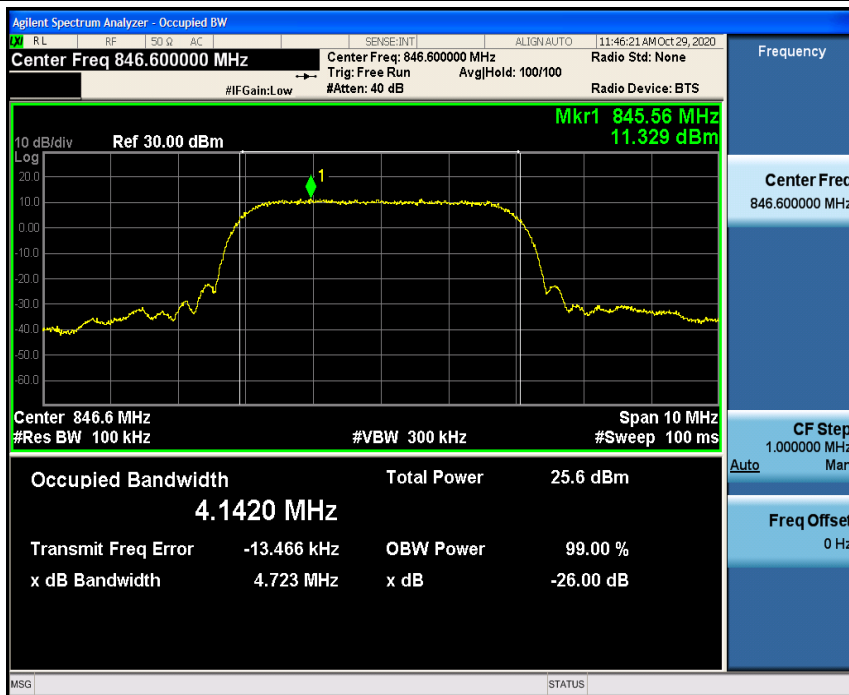
Band5-4132



Band5-4182



Band5-4233





5. Band Edge Compliance

5.1. Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-22.82	-13	PASS
Band2	9538	1910.01	-19.54	-13	PASS
Band4	1312	1710.00	-22.63	-13	PASS
Band4	1513	1755.01	-24.55	-13	PASS
Band5	4132	823.85	-25.39	-13	PASS
Band5	4233	849.17	-25.34	-13	PASS

5.2. Test Plots



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

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

Band2-9538



Band4-1312



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 findings 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

Band4-1513



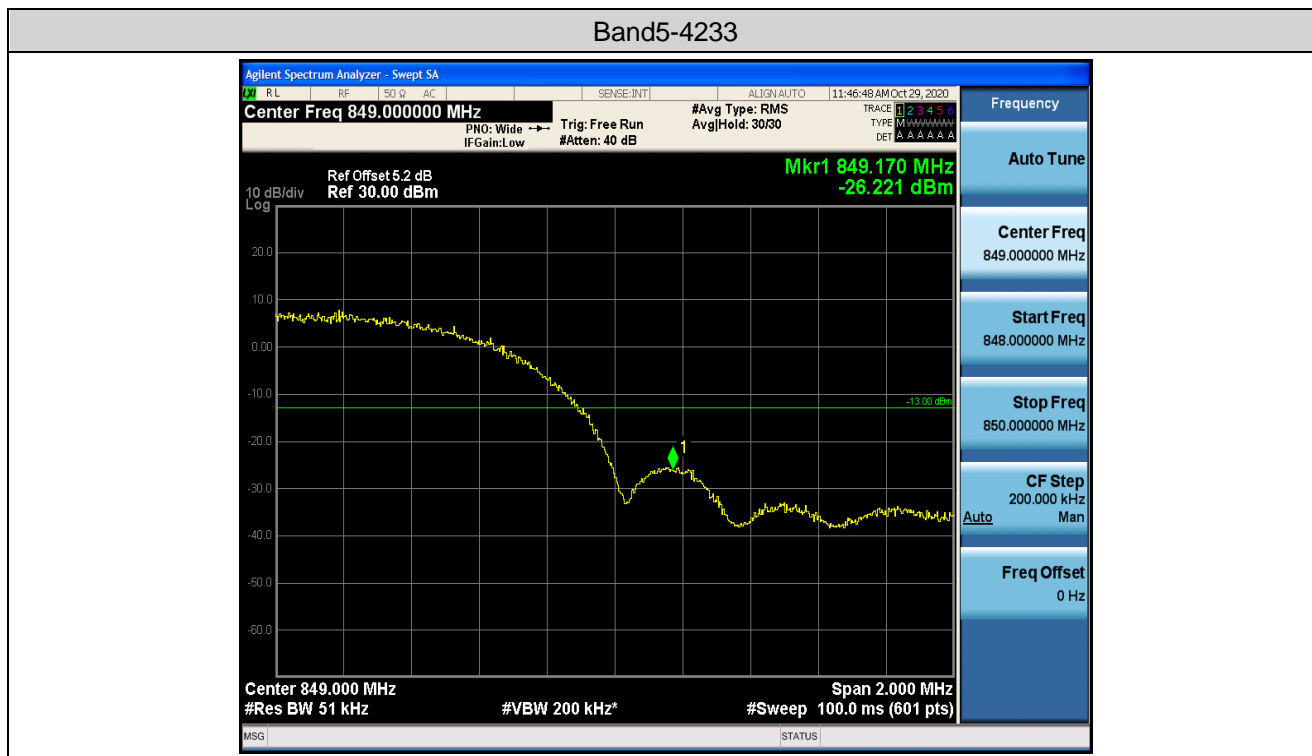
Band5-4132



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.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



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

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

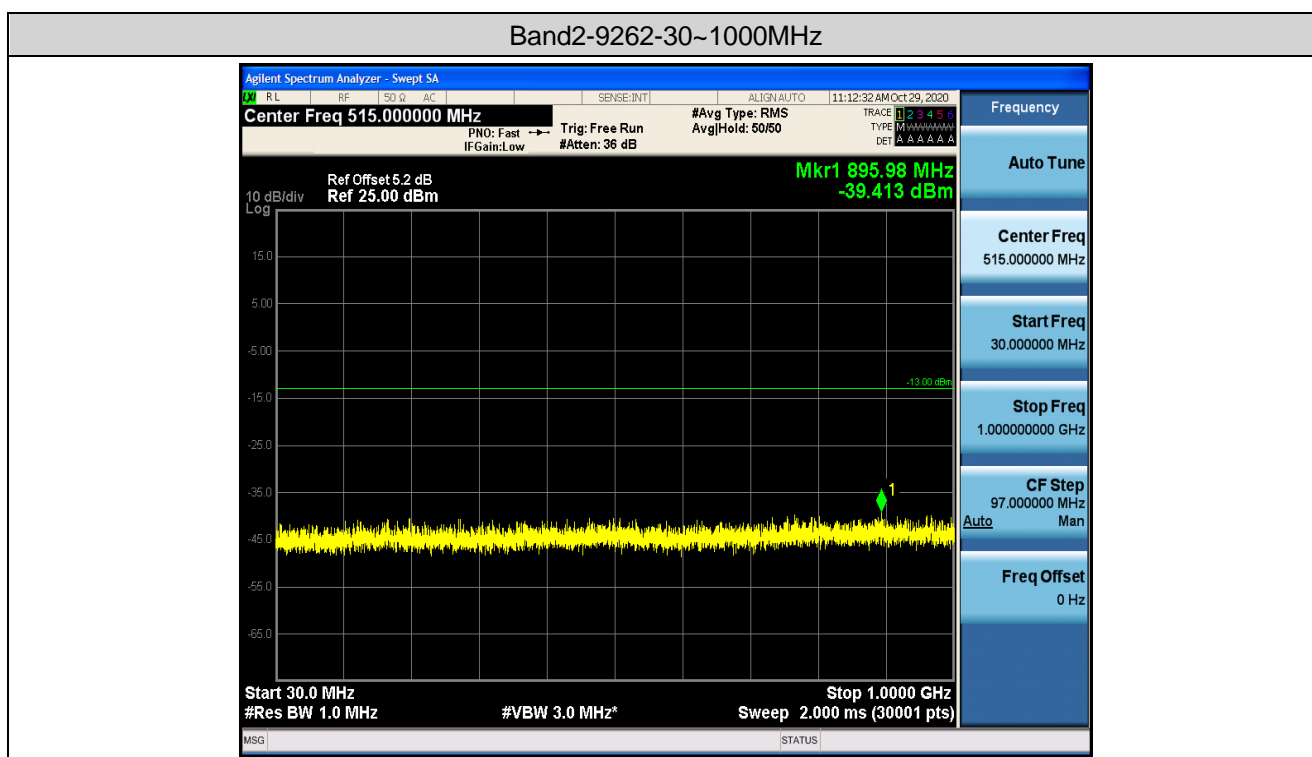


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

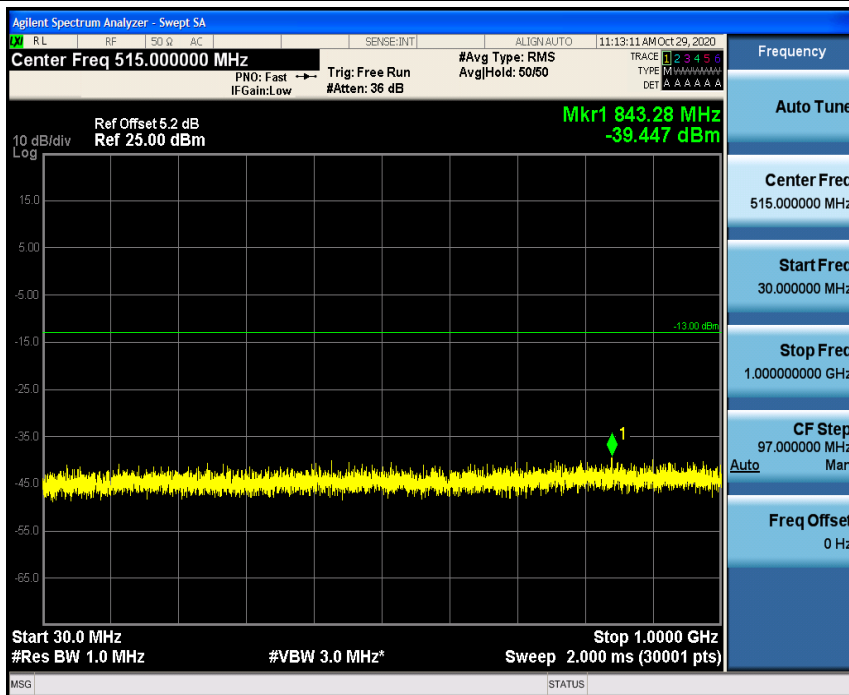
6.1. Test Plots



Band2-9262-1000~20000MHz



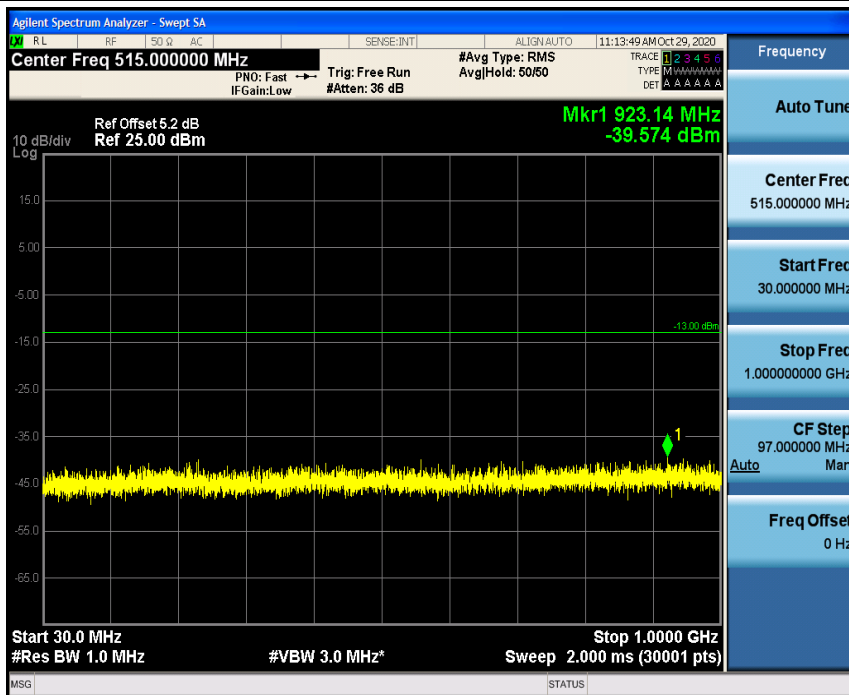
Band2-9400-30~1000MHz



Band2-9400-1000~20000MHz



Band2-9538-30~1000MHz



Band2-9538-1000~20000MHz



Band4-1312-1000~20000MHz

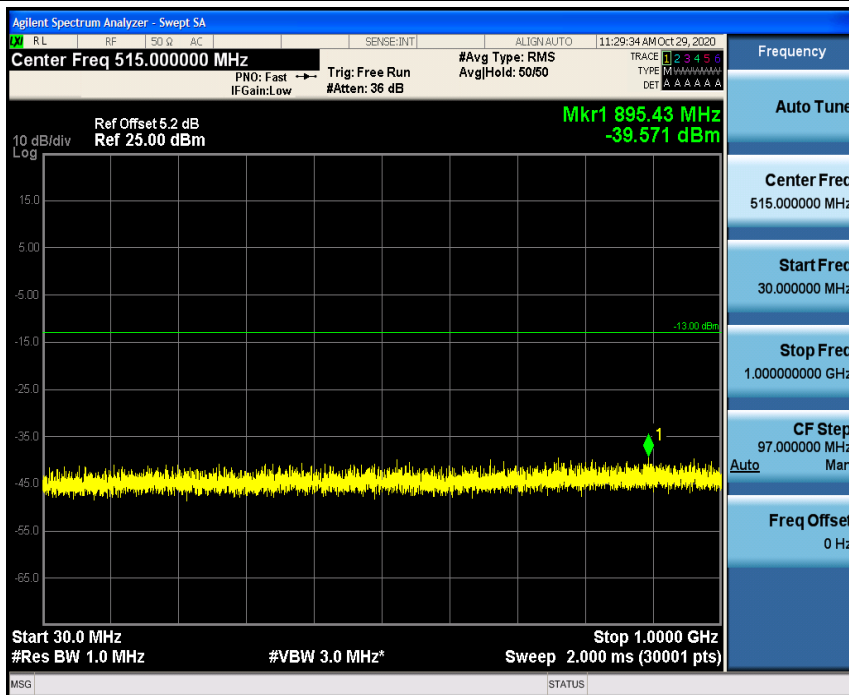


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 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.

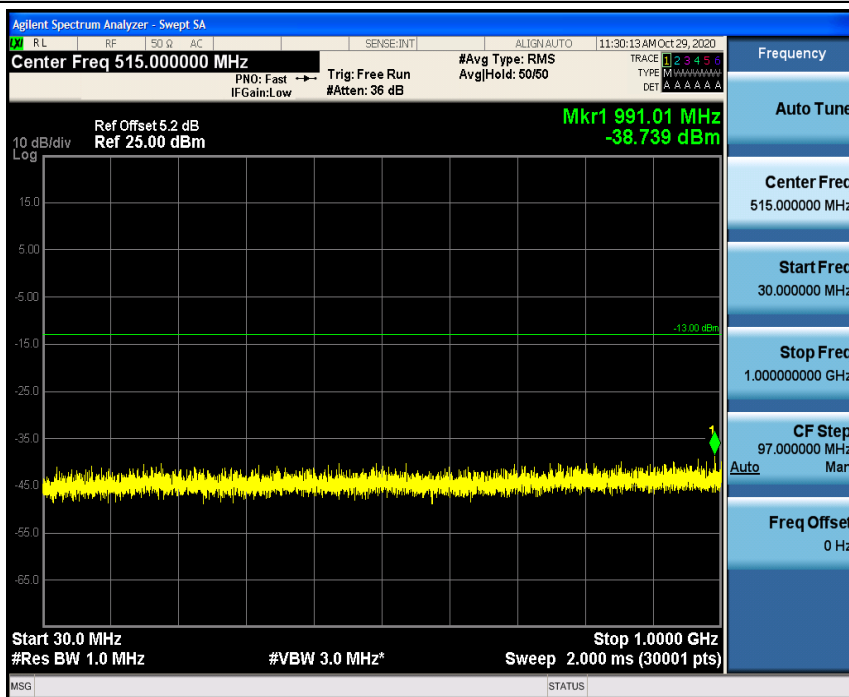
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Band4-1312-30~1000MHz



Band4-1413-30~1000MHz



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.

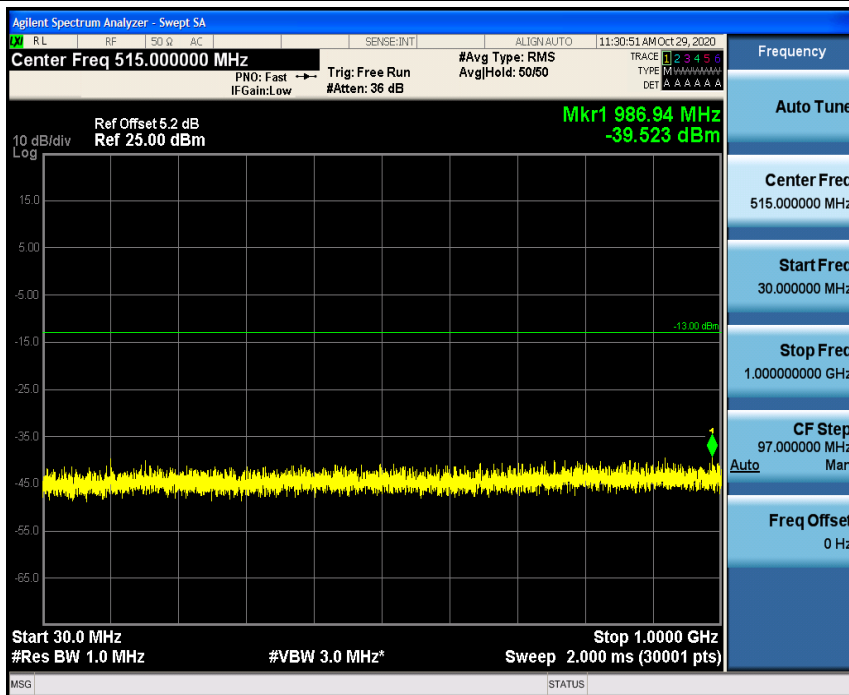
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

Band4-1413-1000~20000MHz



Band4-1513-30~1000MHz



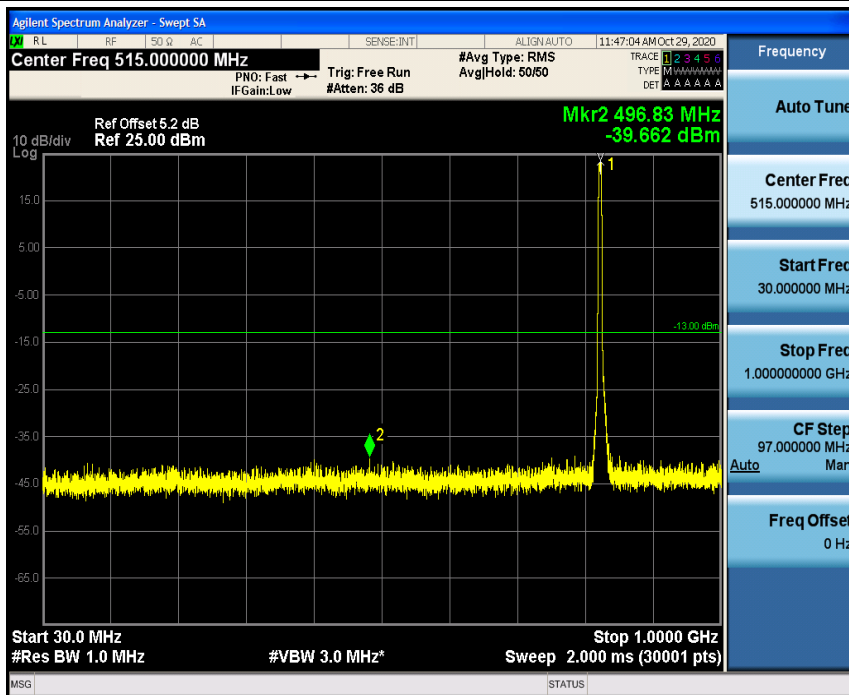
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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

Band4-1513-1000~20000MHz



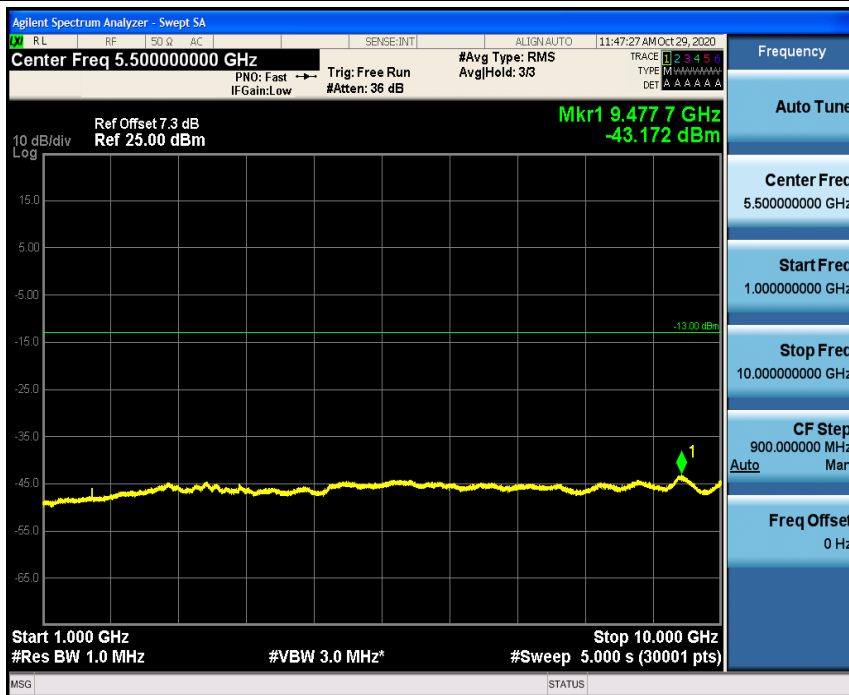
Band5-4132-30~1000MHz



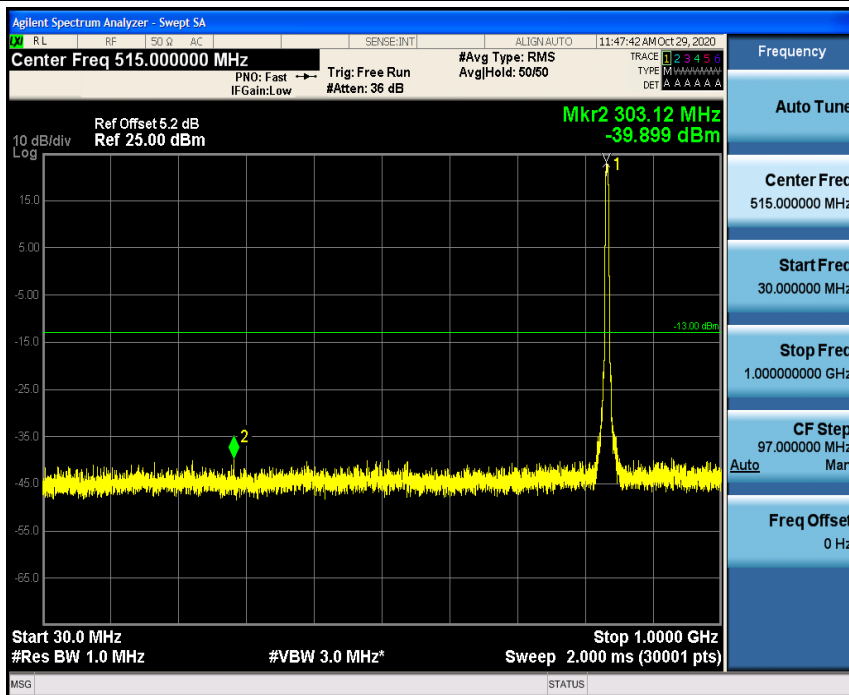
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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
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

Band5-4132-1000~10000MHz



Band5-4182-30~1000MHz

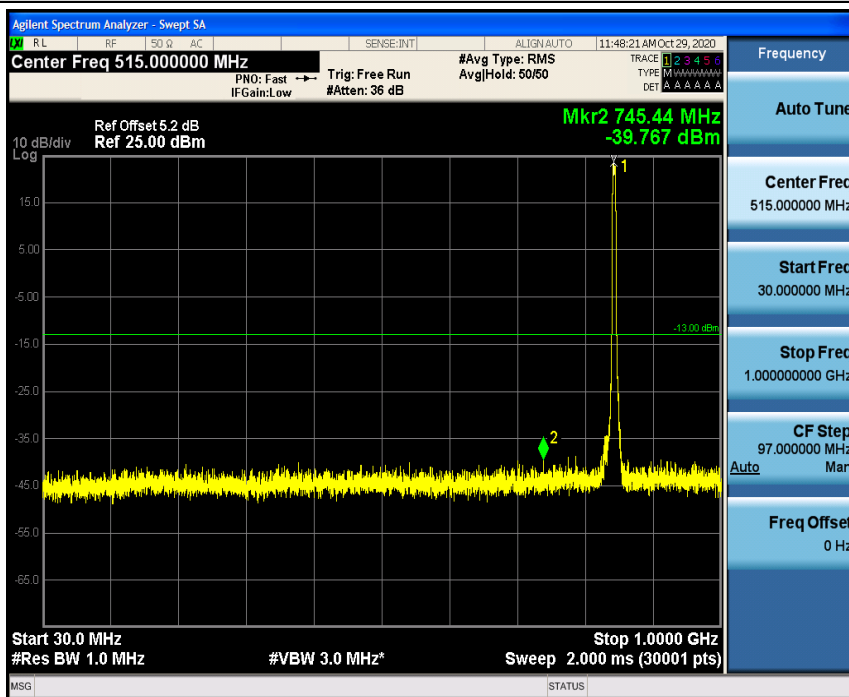


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Band5-4182-1000~10000MHz



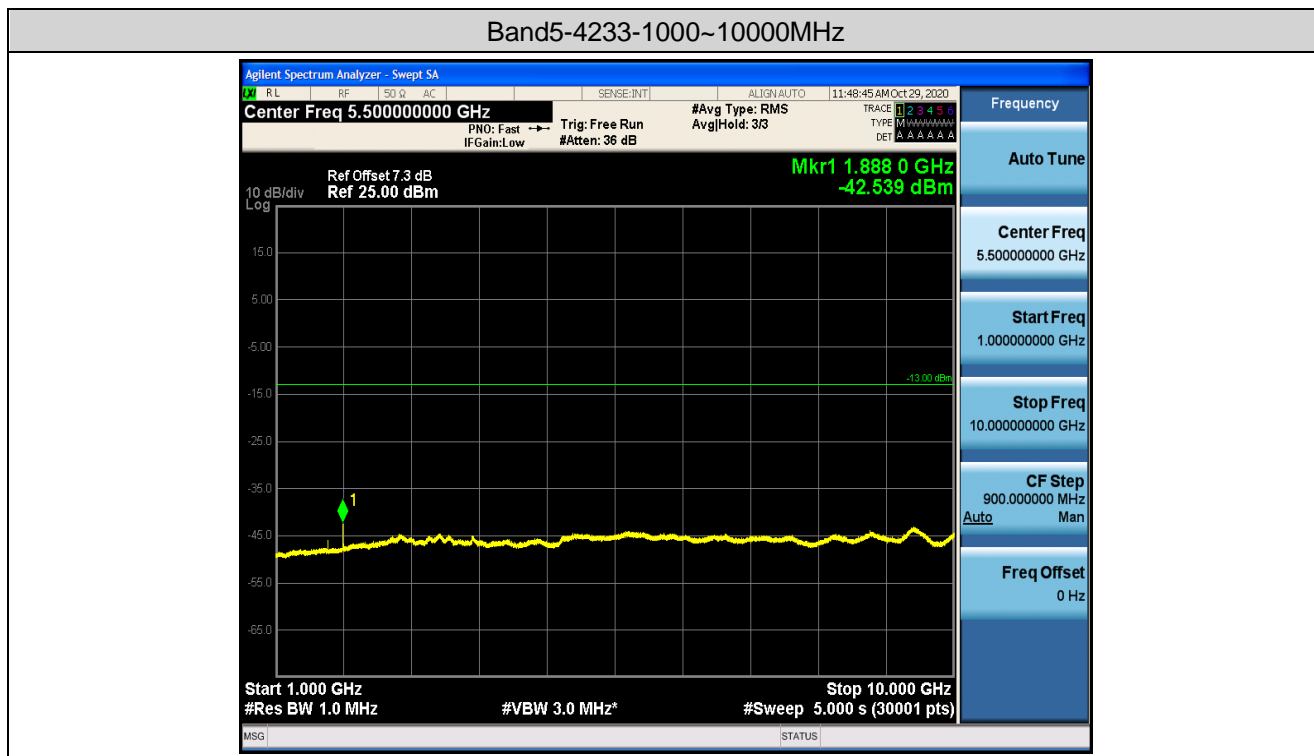
Band5-4233-30~1000MHz



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



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



7. Field Strength of Spurious Radiation

Firstly Supply:

7.1. Band = WCDMA_II_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.5022	-70.07	-63.08	-13.00	50.08	159	8	Horizontal
2	236.8143	-70.18	-67.38	-13.00	54.38	196	261	Horizontal
3	590.4940	-70.89	-63.49	-13.00	50.49	184	134	Horizontal
4	3706.5236	-49.27	-57.82	-13.00	44.82	254	40	Horizontal
5	5555.0852	-54.29	-60.43	-13.00	47.43	251	198	Horizontal
6	16398.9466	-58.46	-44.03	-13.00	31.03	154	230	Horizontal





7.2. Test Band = WCDMA_II_TM1

7.2.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.7275	-63.69	-68.56	-13.00	55.56	267	230	Vertical
2	112.5511	-70.19	-64.00	-13.00	51.00	184	356	Vertical
3	465.7458	-69.84	-65.57	-13.00	52.57	213	135	Vertical
4	3706.5236	-46.96	-56.30	-13.00	43.30	154	8	Vertical
5	7350.1450	-56.42	-55.90	-13.00	42.90	158	103	Vertical
6	17993.4998	-58.30	-40.58	-13.00	27.58	194	40	Vertical



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZ) EMC 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



7.3. Test Band = WCDMA_II_TM1

7.3.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2041	-69.81	-62.99	-13.00	49.99	258	356	Horizontal
2	239.8700	-70.09	-67.30	-13.00	54.30	174	230	Horizontal
3	606.1603	-70.46	-62.79	-13.00	49.79	196	71	Horizontal
4	3758.5253	-50.20	-58.60	-13.00	45.60	321	325	Horizontal
5	7446.1482	-56.13	-56.16	-13.00	43.16	151	103	Horizontal
6	16384.4461	-58.78	-44.61	-13.00	31.61	154	293	Horizontal





7.4. Test Band = WCDMA_II_TM1
7.4.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.5820	-63.37	-68.09	-13.00	55.09	184	325	Vertical
2	104.5482	-69.64	-64.50	-13.00	51.50	321	356	Vertical
3	599.5155	-70.62	-63.00	-13.00	50.00	215	230	Vertical
4	3758.5253	-46.57	-55.64	-13.00	42.64	194	40	Vertical
5	7345.6449	-56.00	-55.49	-13.00	42.49	321	40	Vertical
6	17996.9999	-58.15	-40.35	-13.00	27.35	221	135	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

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

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



7.5. Test Band = WCDMA_II_TM1

7.5.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.6962	-70.29	-63.29	-13.00	50.29	258	261	Horizontal
2	239.7245	-70.38	-67.59	-13.00	54.59	184	8	Horizontal
3	624.1547	-70.24	-62.49	-13.00	49.49	133	261	Horizontal
4	3813.5271	-47.91	-56.15	-13.00	43.15	251	356	Horizontal
5	5720.5907	-53.93	-59.93	-13.00	46.93	194	356	Horizontal
6	16382.9461	-58.42	-44.28	-13.00	31.28	163	229	Horizontal



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC 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



7.6. Test Band = WCDMA_II_TM1

7.6.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.6790	-62.36	-67.18	-13.00	54.18	184	356	Vertical
2	109.9805	-70.27	-63.86	-13.00	50.86	189	135	Vertical
3	619.6440	-70.11	-62.54	-13.00	49.54	321	135	Vertical
4	3813.5271	-44.38	-53.21	-13.00	40.21	151	230	Vertical
5	10554.2518	-58.57	-51.59	-13.00	38.59	184	103	Vertical
6	17996.4999	-58.58	-40.79	-13.00	27.79	123	135	Vertical





7.7. Test Band = WCDMA_IV_TM1

7.7.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2526	-68.36	-61.53	-13.00	48.53	185	8	Horizontal
2	235.9898	-66.56	-63.75	-13.00	50.75	196	167	Horizontal
3	609.9920	-67.63	-59.94	-13.00	46.94	321	325	Horizontal
4	3426.5142	-41.87	-51.79	-13.00	38.79	215	8	Horizontal
5	7468.6490	-53.95	-53.97	-13.00	40.97	154	8	Horizontal
6	16386.9462	-50.39	-36.17	-13.00	23.17	191	72	Horizontal



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2010) China CCC 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

7.8. Test Band = WCDMA_IV_TM1
7.8.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.6790	-62.78	-67.60	-13.00	54.60	184	72	Vertical
2	110.7080	-68.18	-61.83	-13.00	48.83	159	293	Vertical
3	602.0376	-68.14	-60.51	-13.00	47.51	196	135	Vertical
4	3426.5142	-42.62	-53.70	-13.00	40.70	231	293	Vertical
5	7454.1485	-54.17	-53.87	-13.00	40.87	215	261	Vertical
6	17995.4999	-52.51	-34.74	-13.00	21.74	154	325	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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZ) CCC Laboratory

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

7.9. Test Band = WCDMA_IV_TM1

7.9.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.9872	-67.14	-60.12	-13.00	47.12	258	229	Horizontal
2	230.8970	-66.11	-63.28	-13.00	50.28	245	293	Horizontal
3	609.6525	-68.01	-60.33	-13.00	47.33	159	293	Horizontal
4	3463.5155	-43.15	-52.58	-13.00	39.58	196	8	Horizontal
5	7464.1488	-53.77	-53.79	-13.00	40.79	258	40	Horizontal
6	16391.4464	-49.87	-35.57	-13.00	22.57	178	167	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-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 Co., Ltd.
Shenzhen Branch (SZ) CSTC Laboratory

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



7.10. Test Band = WCDMA_IV_TM1

7.10.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.3395	-63.63	-68.11	-13.00	55.11	158	325	Vertical
2	119.7295	-66.70	-61.15	-13.00	48.15	196	39	Vertical
3	598.1089	-67.00	-59.45	-13.00	46.45	184	8	Vertical
4	3464.0155	-40.83	-51.39	-13.00	38.39	321	293	Vertical
5	7456.1485	-53.69	-53.40	-13.00	40.40	215	293	Vertical
6	17959.4987	-51.49	-34.62	-13.00	21.62	185	71	Vertical



7.11. Test Band = WCDMA_IV_TM1
7.11.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1627	-68.16	-61.18	-13.00	48.18	185	8	Horizontal
2	231.4306	-67.45	-64.63	-13.00	51.63	196	230	Horizontal
3	556.0573	-67.11	-60.57	-13.00	47.57	321	293	Horizontal
4	3503.5168	-42.40	-51.31	-13.00	38.31	151	8	Horizontal
5	7449.6483	-53.90	-53.93	-13.00	40.93	184	293	Horizontal
6	16396.9466	-50.04	-35.64	-13.00	22.64	184	8	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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZ) EMC Laboratory

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



7.12. Test Band = WCDMA_IV_TM1
7.12.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.8245	-62.49	-67.45	-13.00	54.45	258	40	Vertical
2	116.0433	-67.03	-61.15	-13.00	48.15	294	8	Vertical
3	644.0892	-67.55	-60.06	-13.00	47.06	211	72	Vertical
4	3506.5169	-41.19	-51.19	-13.00	38.19	255	294	Vertical
5	7458.1486	-53.81	-53.53	-13.00	40.53	132	167	Vertical
6	17988.4996	-52.01	-34.42	-13.00	21.42	155	8	Vertical





7.13. Test Band = WCDMA_V_TM1

7.13.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.8046	-70.41	-63.50	-13.00	50.50	196	9	Horizontal
2	247.9214	-69.06	-66.44	-13.00	53.44	184	9	Horizontal
3	1650.9302	-62.45	-58.42	-13.00	45.42	184	150	Horizontal
4	2699.1398	-63.07	-50.16	-13.00	37.16	321	4	Horizontal
5	4127.2709	-51.43	-60.58	-13.00	47.58	158	135	Horizontal
6	9305.8102	-58.51	-52.63	-13.00	39.63	161	198	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



7.14. Test Band = WCDMA_V_TM1

7.14.1. Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.4850	-63.68	-68.31	-13.00	55.31	158	71	Vertical
2	110.7565	-70.56	-64.22	-13.00	51.22	174	293	Vertical
3	383.4857	-69.97	-66.73	-13.00	53.73	196	71	Vertical
4	1650.5301	-63.51	-58.83	-13.00	45.83	321	81	Vertical
5	2861.5723	-62.54	-51.21	-13.00	38.21	251	53	Vertical
6	4136.3712	-50.95	-60.71	-13.00	47.71	164	230	Vertical





7.15. Test Band = WCDMA_V_TM1

7.15.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.2041	-69.90	-63.08	-13.00	50.08	184	9	Horizontal
2	86.2628	-69.25	-73.91	-13.00	60.91	187	9	Horizontal
3	228.1809	-70.10	-67.60	-13.00	54.60	253	135	Horizontal
4	1599.3199	-65.10	-60.58	-13.00	47.58	151	111	Horizontal
5	2700.3401	-63.04	-50.12	-13.00	37.12	258	358	Horizontal
6	9311.4104	-58.38	-52.55	-13.00	39.55	251	72	Horizontal





7.16. Test Band = WCDMA_V_TM1

7.16.1. Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.4850	-64.90	-69.53	-13.00	56.53	159	72	Vertical
2	108.6224	-70.37	-64.28	-13.00	51.28	196	41	Vertical
3	386.7838	-70.03	-66.81	-13.00	53.81	185	167	Vertical
4	1615.7231	-65.14	-60.58	-13.00	47.58	174	312	Vertical
5	2843.5687	-62.46	-51.28	-13.00	38.28	231	55	Vertical
6	4177.4392	-51.31	-61.05	-13.00	48.05	251	41	Vertical





7.17. Test Band = WCDMA_V_TM1

7.17.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.0172	-69.86	-62.89	-13.00	49.89	258	356	Horizontal
2	84.5167	-69.03	-73.49	-13.00	60.49	234	230	Horizontal
3	241.0826	-70.22	-67.45	-13.00	54.45	159	293	Horizontal
4	1691.3383	-63.00	-59.37	-13.00	46.37	196	152	Horizontal
5	2702.7405	-63.00	-50.14	-13.00	37.14	184	225	Horizontal
6	9316.3105	-57.33	-51.54	-13.00	38.54	321	293	Horizontal



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC 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



7.18. Test Band = WCDMA_V_TM1

7.18.1. Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.7275	-64.16	-69.03	-13.00	56.03	174	293	Vertical
2	111.6296	-70.16	-63.89	-13.00	50.89	185	8	Vertical
3	468.4134	-69.80	-65.56	-13.00	52.56	196	72	Vertical
4	1691.3383	-64.08	-59.26	-13.00	46.26	321	51	Vertical
5	2854.3709	-62.52	-51.25	-13.00	38.25	215	239	Vertical
6	9895.9299	-58.97	-52.59	-13.00	39.59	281	262	Vertical





Secondly Supply:

7.13 Band = WCDMA_IV_TM1

7.13.1 hannel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.9573	-68.25	-61.78	-13.00	48.78	315	292	Horizontal
2	585.9833	-66.78	-59.49	-13.00	46.49	154	3	Horizontal
3	2698.7397	-62.96	-30.07	-13.00	17.07	185	252	Horizontal
4	3503.5168	-39.01	-47.92	-13.00	34.92	196	195	Horizontal
5	10044.2348	-54.74	-49.20	-13.00	36.20	258	3	Horizontal
6	16401.4467	-49.91	-35.50	-13.00	22.50	264	292	Horizontal



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC 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



7.14 Band = WCDMA_IV_TM1
7.14.1 Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	78.7449	-57.31	-55.53	-13.00	42.53	184	321	Vertical
2	112.7451	-67.90	-61.73	-13.00	48.73	174	289	Vertical
3	2701.1402	-63.07	-31.42	-13.00	18.42	185	62	Vertical
4	3507.0169	-42.97	-52.96	-13.00	39.96	196	257	Vertical
5	14713.8905	-53.48	-41.41	-13.00	28.41	321	225	Vertical
6	17999.0000	-51.58	-33.73	-13.00	20.73	151	321	Vertical

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.



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC 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



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	0.66	0.000356	±2.5	PASS
Band2	9262	VN	NT	0.06	0.000032	±2.5	PASS
Band2	9262	VH	NT	0.23	0.000124	±2.5	PASS
Band2	9400	VL	NT	-0.19	-0.000101	±2.5	PASS
Band2	9400	VN	NT	-0.06	-0.000032	±2.5	PASS
Band2	9400	VH	NT	-0.08	-0.000043	±2.5	PASS
Band2	9538	VL	NT	-1.71	-0.000896	±2.5	PASS
Band2	9538	VN	NT	-1.39	-0.000729	±2.5	PASS
Band2	9538	VH	NT	-1.82	-0.000954	±2.5	PASS
Band4	1312	VL	NT	6.87	0.004012	±2.5	PASS
Band4	1312	VN	NT	6.73	0.003930	±2.5	PASS
Band4	1312	VH	NT	7.05	0.004117	±2.5	PASS
Band4	1413	VL	NT	0.37	0.000214	±2.5	PASS
Band4	1413	VN	NT	0.39	0.000225	±2.5	PASS
Band4	1413	VH	NT	0.26	0.000150	±2.5	PASS
Band4	1513	VL	NT	-5.64	-0.003218	±2.5	PASS
Band4	1513	VN	NT	-5.58	-0.003184	±2.5	PASS
Band4	1513	VH	NT	-5.82	-0.003321	±2.5	PASS
Band5	4132	VL	NT	0.79	0.000956	±2.5	PASS
Band5	4132	VN	NT	0.77	0.000932	±2.5	PASS
Band5	4132	VH	NT	0.82	0.000992	±2.5	PASS
Band5	4182	VL	NT	-0.11	-0.000132	±2.5	PASS
Band5	4182	VN	NT	-0.12	-0.000143	±2.5	PASS
Band5	4182	VH	NT	-0.03	-0.000036	±2.5	PASS
Band5	4233	VL	NT	-0.46	-0.000543	±2.5	PASS
Band5	4233	VN	NT	-0.55	-0.000650	±2.5	PASS
Band5	4233	VH	NT	-0.62	-0.000732	±2.5	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.

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CSTC) Laboratory

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



8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	0.37	0.000200	±2.5	PASS
Band2	9262	NV	-20	0.69	0.000372	±2.5	PASS
Band2	9262	NV	-10	0.79	0.000426	±2.5	PASS
Band2	9262	NV	0	0.99	0.000534	±2.5	PASS
Band2	9262	NV	10	0.87	0.000470	±2.5	PASS
Band2	9262	NV	20	0.80	0.000432	±2.5	PASS
Band2	9262	NV	30	1.02	0.000551	±2.5	PASS
Band2	9262	NV	40	0.80	0.000432	±2.5	PASS
Band2	9262	NV	50	0.99	0.000534	±2.5	PASS
Band2	9400	NV	-30	-0.16	-0.000085	±2.5	PASS
Band2	9400	NV	-20	-0.24	-0.000128	±2.5	PASS
Band2	9400	NV	-10	-0.30	-0.000160	±2.5	PASS
Band2	9400	NV	0	-0.36	-0.000191	±2.5	PASS
Band2	9400	NV	10	-0.21	-0.000112	±2.5	PASS
Band2	9400	NV	20	-0.25	-0.000133	±2.5	PASS
Band2	9400	NV	30	-0.14	-0.000074	±2.5	PASS
Band2	9400	NV	40	-0.26	-0.000138	±2.5	PASS
Band2	9400	NV	50	-0.18	-0.000096	±2.5	PASS
Band2	9538	NV	-30	-1.65	-0.000865	±2.5	PASS
Band2	9538	NV	-20	-1.63	-0.000854	±2.5	PASS
Band2	9538	NV	-10	-1.57	-0.000823	±2.5	PASS
Band2	9538	NV	0	-1.61	-0.000844	±2.5	PASS
Band2	9538	NV	10	-1.68	-0.000881	±2.5	PASS
Band2	9538	NV	20	-1.84	-0.000965	±2.5	PASS
Band2	9538	NV	30	-1.81	-0.000949	±2.5	PASS
Band2	9538	NV	40	-1.71	-0.000896	±2.5	PASS
Band2	9538	NV	50	-1.66	-0.000870	±2.5	PASS
Band4	1312	NV	-30	7.16	0.004181	±2.5	PASS
Band4	1312	NV	-20	7.06	0.004123	±2.5	PASS
Band4	1312	NV	-10	7.27	0.004246	±2.5	PASS
Band4	1312	NV	0	7.27	0.004246	±2.5	PASS
Band4	1312	NV	10	7.02	0.004100	±2.5	PASS
Band4	1312	NV	20	7.22	0.004216	±2.5	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
 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



Band4	1312	NV	30	7.32	0.004275	±2.5	PASS
Band4	1312	NV	40	7.40	0.004321	±2.5	PASS
Band4	1312	NV	50	7.47	0.004362	±2.5	PASS
Band4	1413	NV	-30	0.48	0.000277	±2.5	PASS
Band4	1413	NV	-20	0.29	0.000167	±2.5	PASS
Band4	1413	NV	-10	0.39	0.000225	±2.5	PASS
Band4	1413	NV	0	0.46	0.000265	±2.5	PASS
Band4	1413	NV	10	0.47	0.000271	±2.5	PASS
Band4	1413	NV	20	0.36	0.000208	±2.5	PASS
Band4	1413	NV	30	0.35	0.000202	±2.5	PASS
Band4	1413	NV	40	0.65	0.000375	±2.5	PASS
Band4	1413	NV	50	0.15	0.000087	±2.5	PASS
Band4	1513	NV	-30	-5.98	-0.003412	±2.5	PASS
Band4	1513	NV	-20	-5.94	-0.003389	±2.5	PASS
Band4	1513	NV	-10	-6.17	-0.003520	±2.5	PASS
Band4	1513	NV	0	-6.04	-0.003446	±2.5	PASS
Band4	1513	NV	10	-6.39	-0.003646	±2.5	PASS
Band4	1513	NV	20	-6.21	-0.003543	±2.5	PASS
Band4	1513	NV	30	-6.62	-0.003777	±2.5	PASS
Band4	1513	NV	40	-6.39	-0.003646	±2.5	PASS
Band4	1513	NV	50	-6.58	-0.003754	±2.5	PASS
Band5	4132	NV	-30	0.79	0.000956	±2.5	PASS
Band5	4132	NV	-20	0.72	0.000871	±2.5	PASS
Band5	4132	NV	-10	0.57	0.000690	±2.5	PASS
Band5	4132	NV	0	0.51	0.000617	±2.5	PASS
Band5	4132	NV	10	0.49	0.000593	±2.5	PASS
Band5	4132	NV	20	0.53	0.000641	±2.5	PASS
Band5	4132	NV	30	0.45	0.000545	±2.5	PASS
Band5	4132	NV	40	0.56	0.000678	±2.5	PASS
Band5	4132	NV	50	0.53	0.000641	±2.5	PASS
Band5	4182	NV	-30	-0.14	-0.000167	±2.5	PASS
Band5	4182	NV	-20	-0.09	-0.000108	±2.5	PASS
Band5	4182	NV	-10	-0.11	-0.000132	±2.5	PASS
Band5	4182	NV	0	-0.20	-0.000239	±2.5	PASS
Band5	4182	NV	10	-0.13	-0.000155	±2.5	PASS
Band5	4182	NV	20	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	30	-0.07	-0.000084	±2.5	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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.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



Band5	4182	NV	40	-0.09	-0.000108	±2.5	PASS
Band5	4182	NV	50	-0.24	-0.000287	±2.5	PASS
Band5	4233	NV	-30	-0.72	-0.000850	±2.5	PASS
Band5	4233	NV	-20	-0.60	-0.000709	±2.5	PASS
Band5	4233	NV	-10	-0.64	-0.000756	±2.5	PASS
Band5	4233	NV	0	-0.43	-0.000508	±2.5	PASS
Band5	4233	NV	10	-0.60	-0.000709	±2.5	PASS
Band5	4233	NV	20	-0.61	-0.000721	±2.5	PASS
Band5	4233	NV	30	-0.59	-0.000697	±2.5	PASS
Band5	4233	NV	40	-0.62	-0.000732	±2.5	PASS
Band5	4233	NV	50	-0.51	-0.000602	±2.5	PASS

The End

