



Appendix B

E-UTRA Band 5



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.	PEAK-TO-AVERAGE RATIO (CCDF)	9
2.1.	TEST RESULT	9
2.2.	TEST PLOTS.....	9
3.	MODULATION CHARACTERISTICS	13
3.1.	TEST MODE = LTE /TM1 10MHZ.....	13
3.1.1.	TEST CHANNEL = MCH.....	13
3.2.	TEST MODE = LTE /TM2 10MHZ.....	14
3.2.1.	TEST CHANNEL = MCH.....	14
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	15
4.1.	TEST RESULT	15
4.2.	TEST PLOTS.....	16
5.	BAND EDGE COMPLIANCE	28
5.1.	TEST PLOTS.....	28
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	44
6.1.	TEST PLOTS.....	44
7.	FIELD STRENGTH OF SPURIOUS RADIATION	50
7.1.	TEST MODE =LTE/TM1 10MHZ.....	50
7.1.1.	TEST CHANNEL = LCH	50
7.1.2.	TEST CHANNEL = MCH.....	50
7.1.3.	TEST CHANNEL = HCH.....	51
8.	FREQUENCY STABILITY.....	52
8.1.	FREQUENCY VS VOLTAGE	52
8.2.	FREQUENCY VS TEMPERATURE	53



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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.44	18.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.56	18.37	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.34	18.15	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.48	18.29	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.54	18.35	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.61	18.42	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.56	17.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.45	18.26	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.51	18.32	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.48	18.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.49	18.3	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.56	18.37	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.53	18.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.58	17.39	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.45	18.26	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.58	18.39	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.57	18.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.57	18.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.78	18.59	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.67	18.48	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.80	17.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.55	17.36	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.44	17.25	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.66	17.47	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.48	17.29	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.39	17.2	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.51	17.32	38.45	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing & Inspection 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



Band5	1.4MHz	16QAM	20407	6RB#0	21.72	16.53	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.62	17.43	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.68	17.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.66	17.47	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.43	17.24	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.69	17.5	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.44	17.25	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.63	16.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.41	17.22	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.05	17.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.50	17.31	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.42	17.23	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.71	17.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.61	17.42	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.71	16.52	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.52	18.33	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.76	18.57	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.60	18.41	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.50	17.31	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.40	17.21	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.60	17.41	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.42	17.23	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.44	18.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.74	18.55	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.49	18.3	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.48	17.29	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.52	17.33	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.44	17.25	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.47	17.28	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.52	18.33	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.85	18.66	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.63	18.44	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.53	17.34	38.45	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 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	3MHz	QPSK	20635	8RB#0	22.66	17.47	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.59	17.4	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.65	17.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.57	17.38	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.82	17.63	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.95	17.76	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.72	16.53	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.57	16.38	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.52	16.33	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.48	16.29	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.67	17.48	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.66	17.47	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.51	17.32	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.68	16.49	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.64	16.45	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.78	16.59	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.53	16.34	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.96	17.77	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.50	17.31	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.81	17.62	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.72	16.53	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.68	16.49	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.54	16.35	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.58	16.39	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.28	18.09	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.43	18.24	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.41	18.22	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.54	17.35	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.49	17.3	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.61	17.42	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.55	17.36	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.38	18.19	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.50	18.31	38.45	PASS





Band5	5MHz	QPSK	20525	1RB#24	23.39	18.2	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.51	17.32	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.57	17.38	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.46	17.27	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.60	17.41	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.54	18.35	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.57	18.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.48	18.29	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.52	17.33	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.56	17.37	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.57	17.38	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.58	17.39	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.40	17.21	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.82	17.63	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.97	17.78	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.53	16.34	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.51	16.32	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.63	16.44	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.50	16.31	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.66	17.47	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.72	17.53	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.46	17.27	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.43	16.24	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.64	16.45	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.53	16.34	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.50	16.31	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.99	17.8	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.64	17.45	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.67	17.48	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.60	16.41	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.77	16.58	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.56	16.37	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.66	16.47	38.45	PASS





Band5	10MHz	QPSK	20450	1RB#0	23.33	18.14	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.71	18.52	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.57	18.38	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.51	17.32	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.65	17.46	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.61	17.42	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.64	17.45	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.44	18.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.67	18.48	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.58	18.39	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.55	17.36	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.59	17.4	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.66	17.47	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.60	17.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.45	18.26	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.60	18.41	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.53	18.34	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.62	17.43	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.59	17.4	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.70	17.51	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.67	17.48	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.89	17.7	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.86	17.67	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.01	17.82	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.63	16.44	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.62	16.43	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.60	16.41	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.71	16.52	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.68	17.49	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.07	17.88	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.69	17.5	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.66	16.47	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.68	16.49	38.45	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory.
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	10MHz	16QAM	20525	25RB#25	21.57	16.38	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.67	16.48	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.97	17.78	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.16	17.97	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.85	17.66	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.70	16.51	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.70	16.51	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.61	16.42	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.62	16.43	38.45	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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

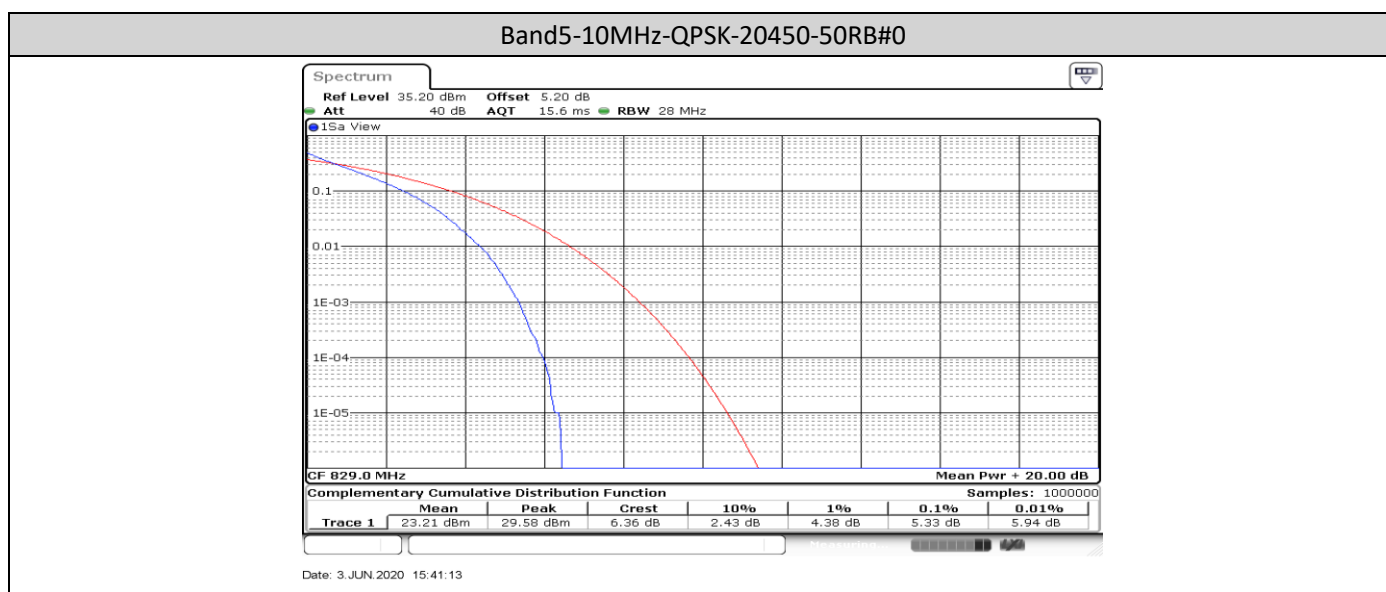
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

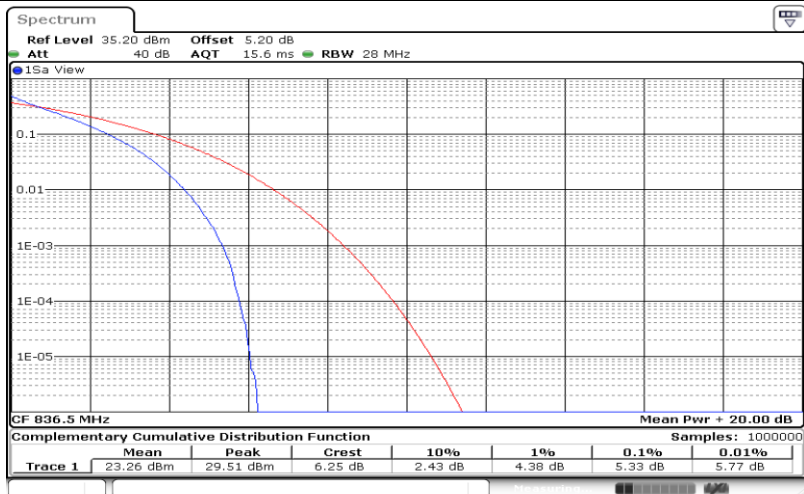
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.09	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.00	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS

2.2. Test Plots



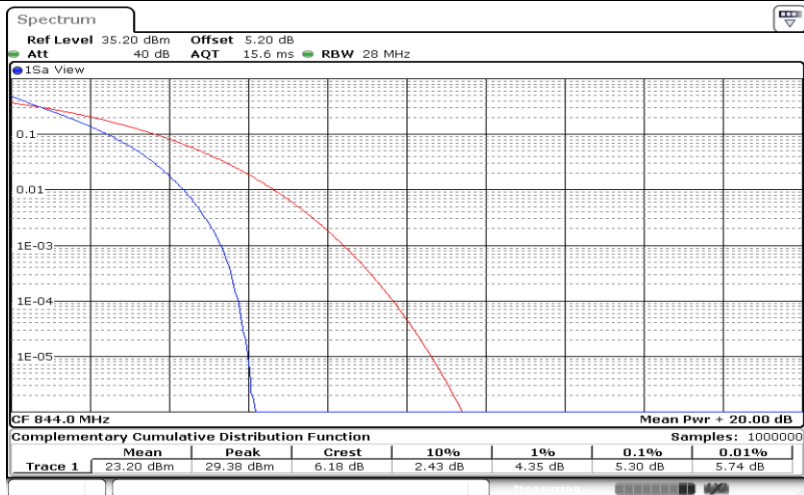


Band5-10MHz-QPSK-20525-50RB#0



Date: 3 JUN 2020 15:41:36

Band5-10MHz-QPSK-20600-50RB#0

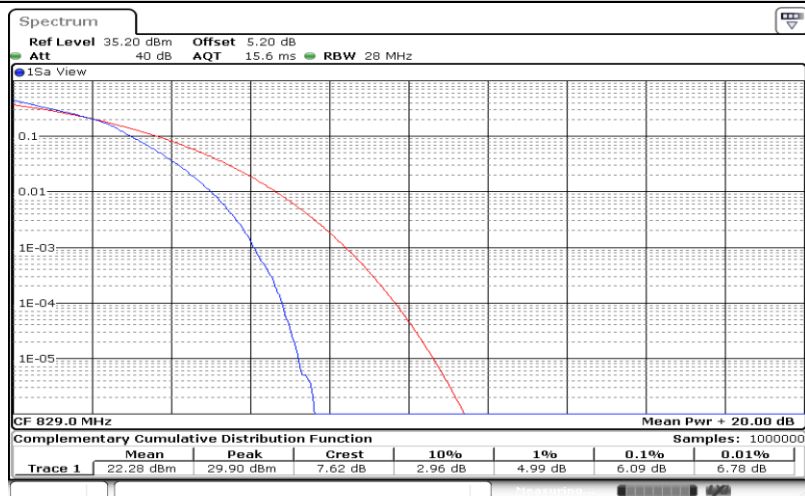


Date: 3 JUN 2020 15:41:59



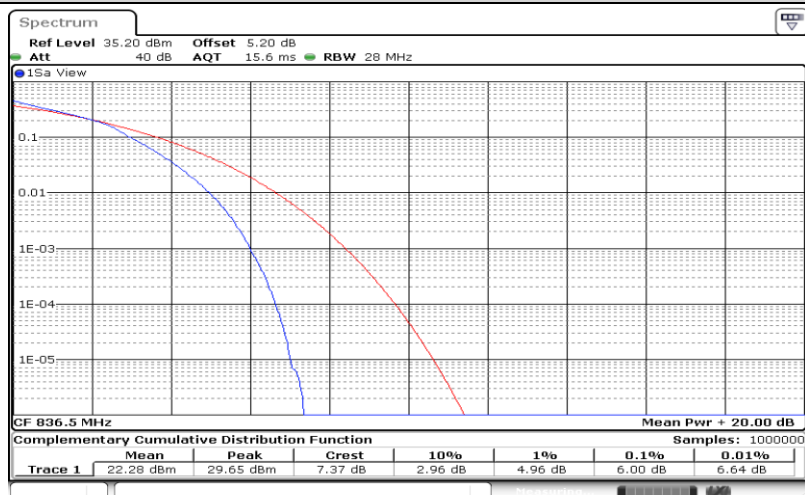


Band5-10MHz-16QAM-20450-50RB#0



Date: 3 JUN 2020 15:41:25

Band5-10MHz-16QAM-20525-50RB#0

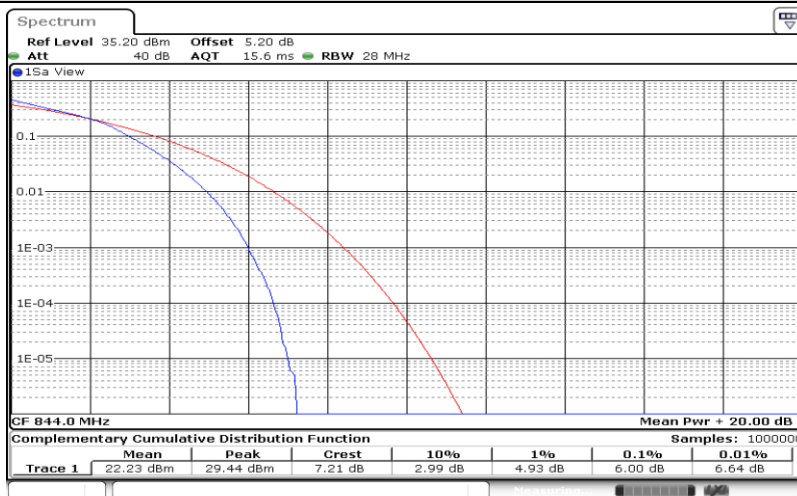


Date: 3 JUN 2020 15:41:48





Band5-10MHz-16QAM-20600-50RB#0



Date: 3 JUN 2020 15:42:11



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.

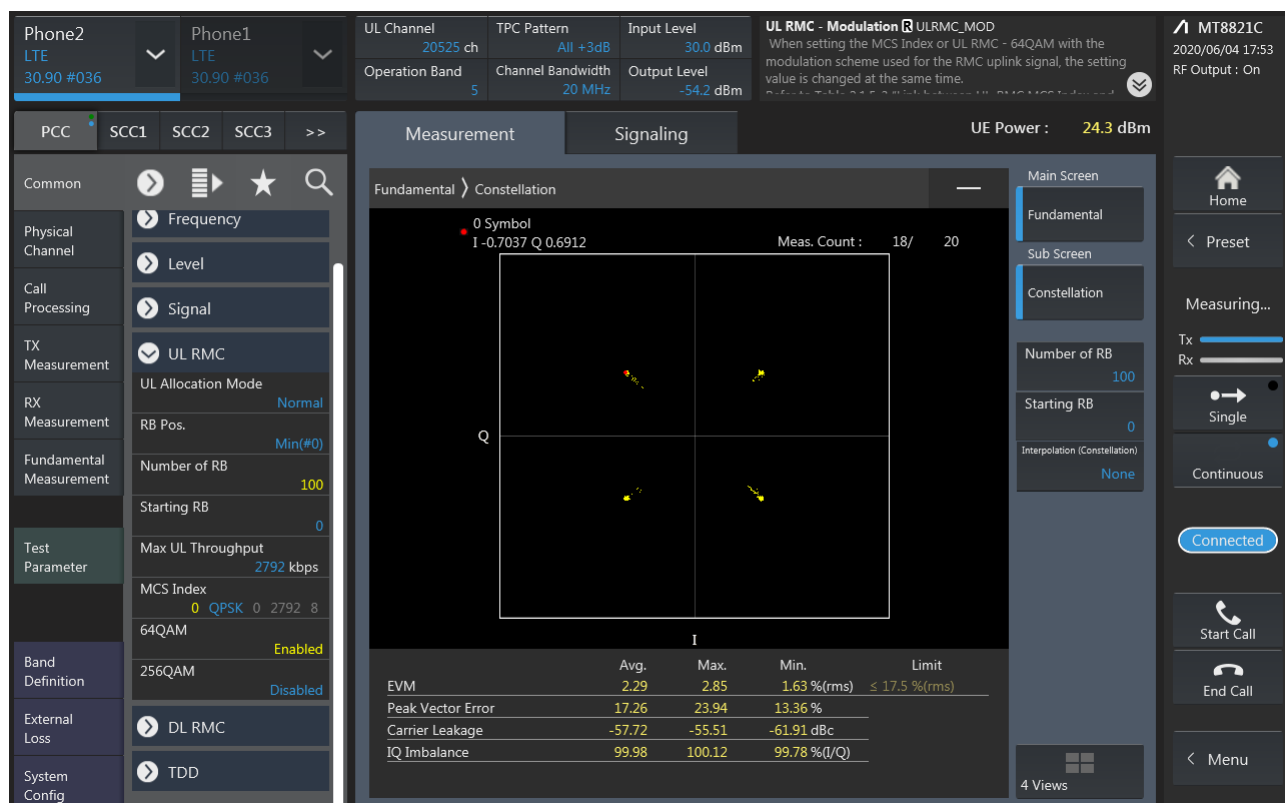
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



3. Modulation Characteristics

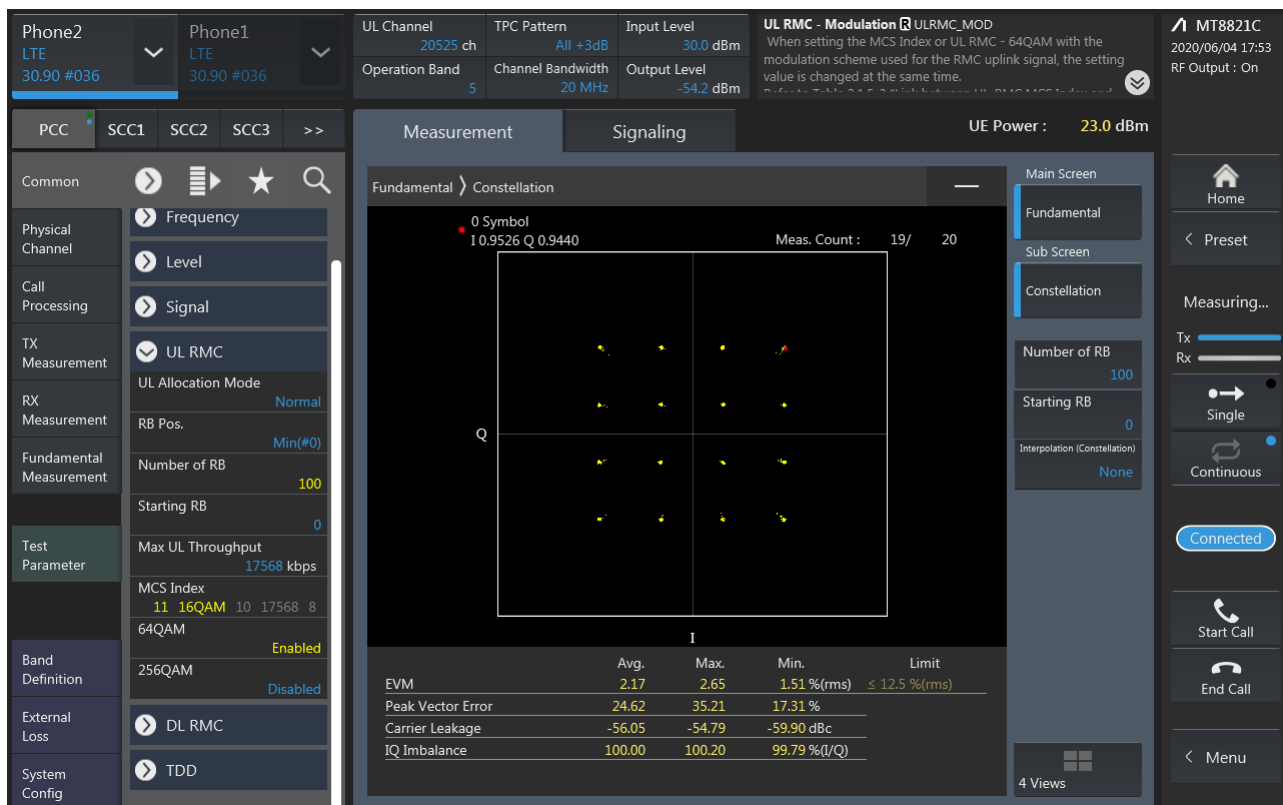
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

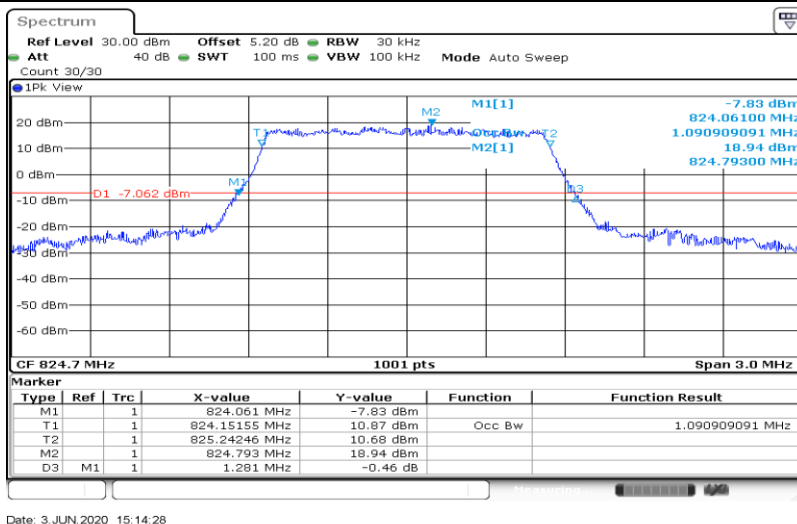
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.085	1.284	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.085	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.922	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.916	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.910	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.898	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.856	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.892	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.730	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.810	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.740	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.466	4.770	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.496	4.760	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.760	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.971	9.440	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.460	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.971	9.420	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.620	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.580	PASS



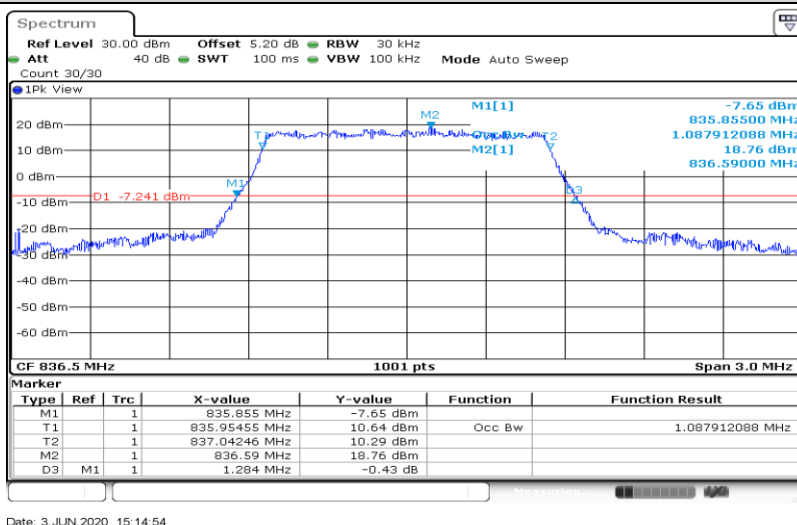


4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091

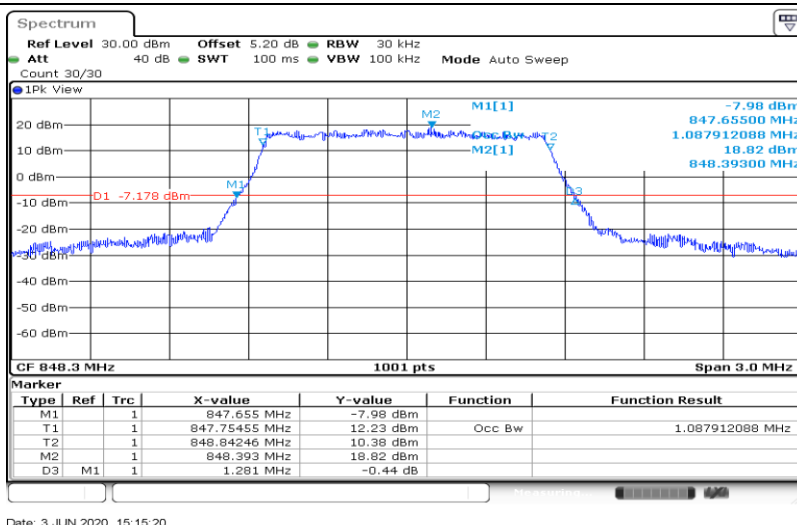


Band5-1.4MHz-QPSK-20525-6RB#0-1.088

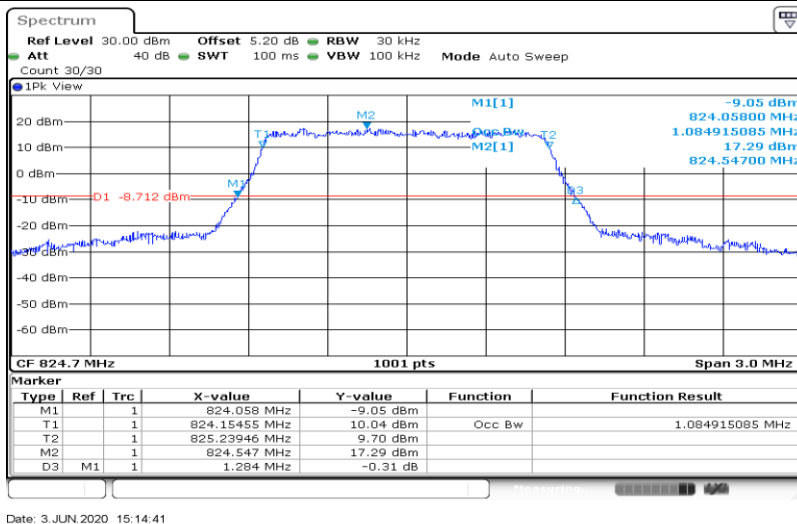


Band5-1.4MHz-QPSK-20643-6RB#0-1.088



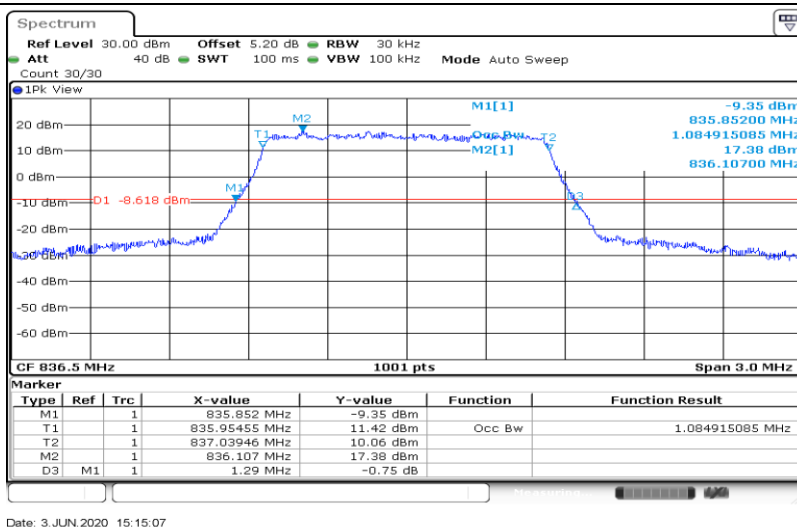


Band5-1.4MHz-16QAM-20407-6RB#0-1.085

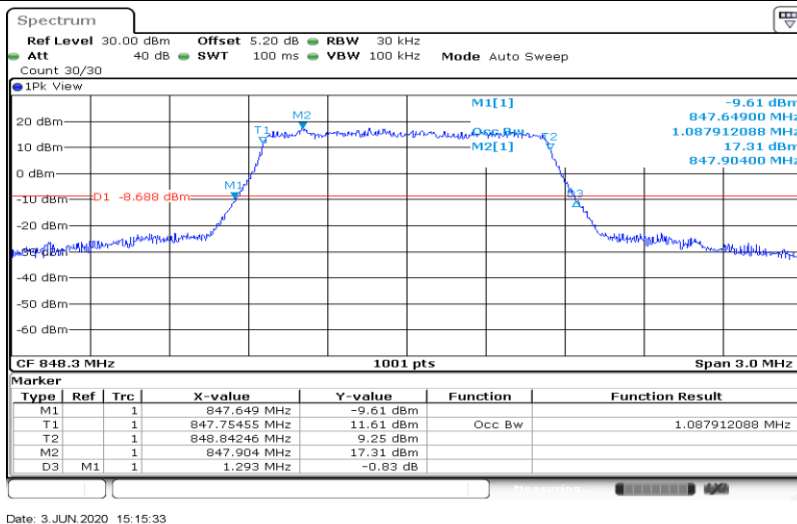


Band5-1.4MHz-16QAM-20525-6RB#0-1.085





Band5-1.4MHz-16QAM-20643-6RB#0-1.088



Band5-3MHz-QPSK-20415-15RB#0-2.691

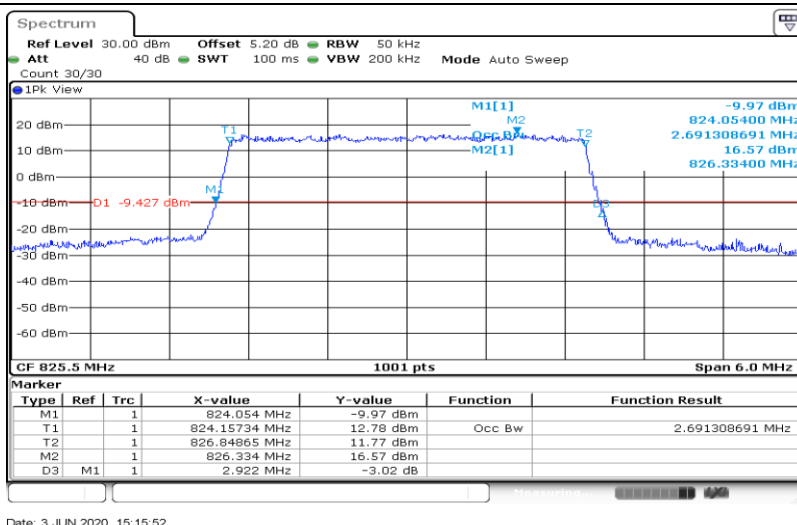


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

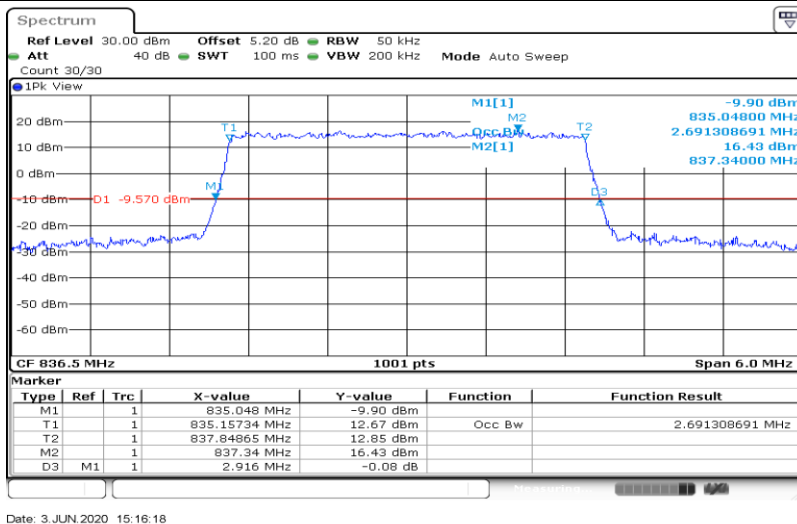
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

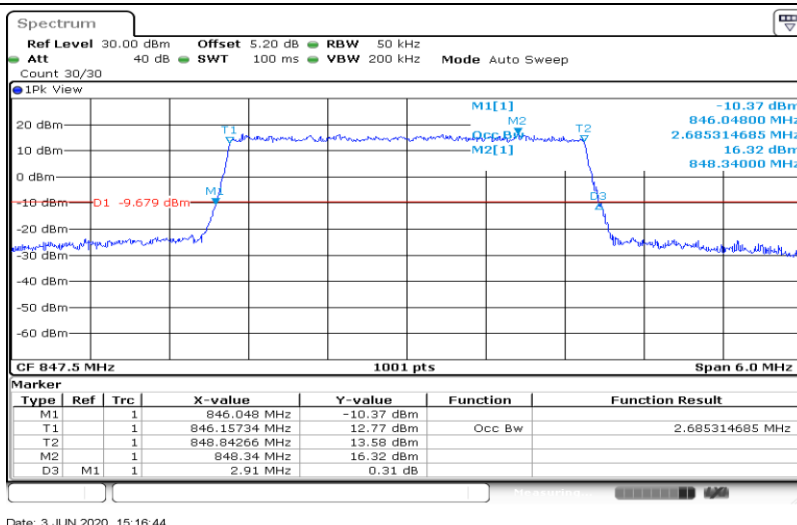


Band5-3MHz-QPSK-20525-15RB#0-2.691

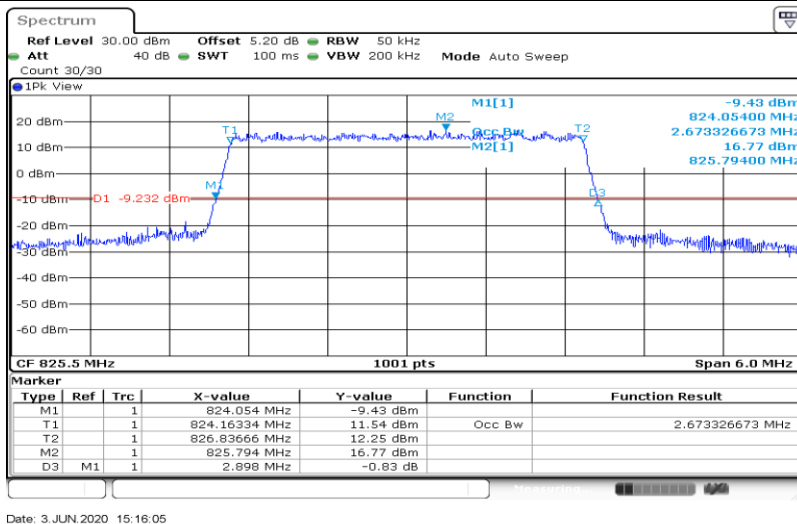


Band5-3MHz-QPSK-20635-15RB#0-2.685



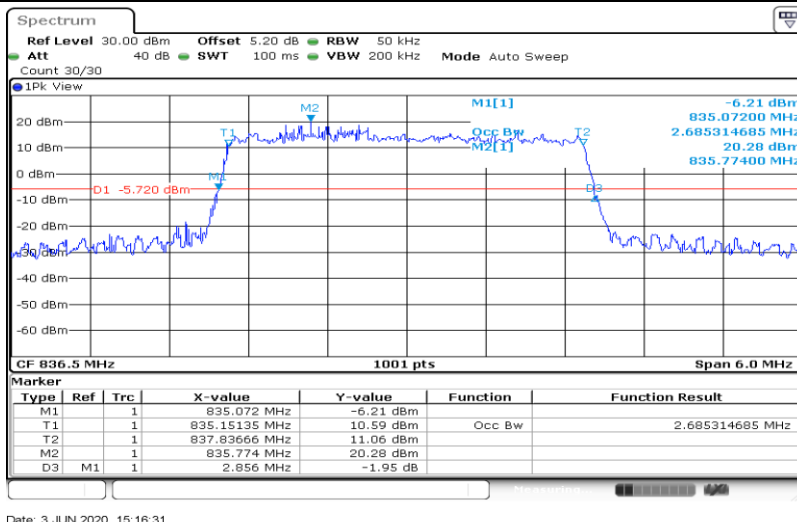


Band5-3MHz-16QAM-20415-15RB#0-2.673

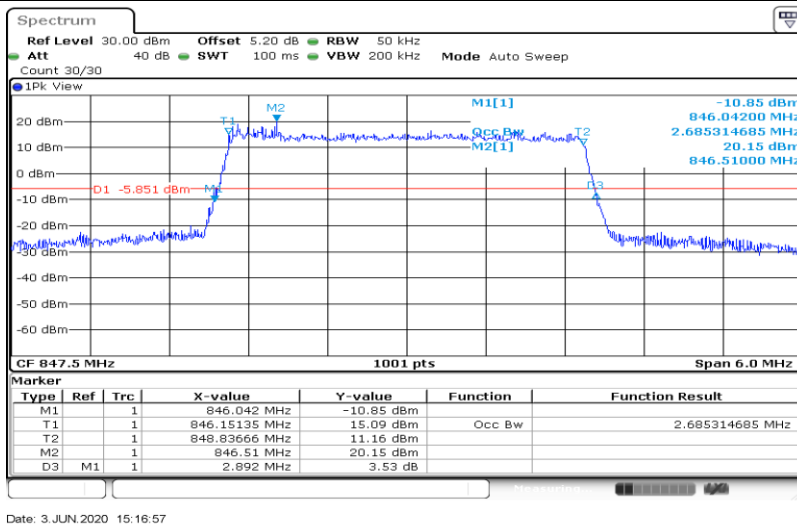


Band5-3MHz-16QAM-20525-15RB#0-2.685



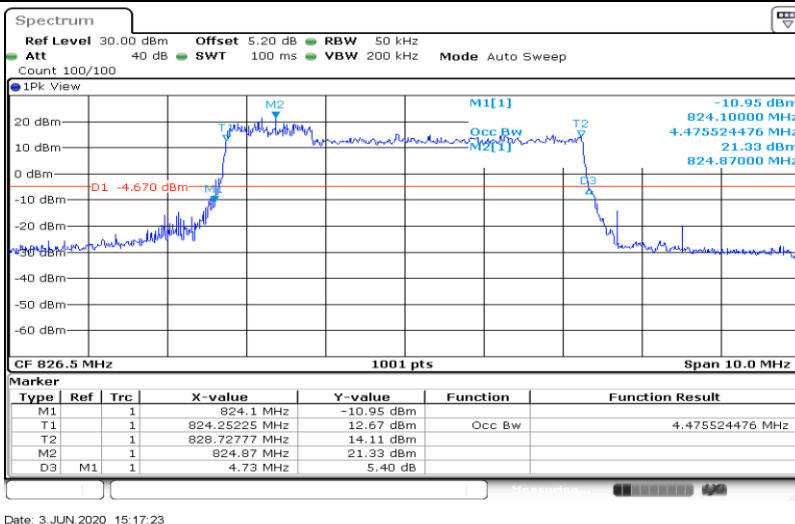


Band5-3MHz-16QAM-20635-15RB#0-2.685

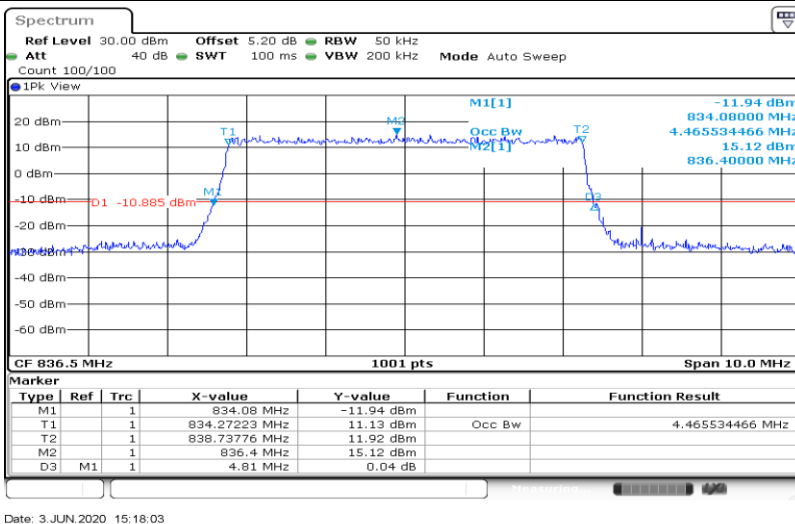


Band5-5MHz-QPSK-20425-25RB#0-4.476



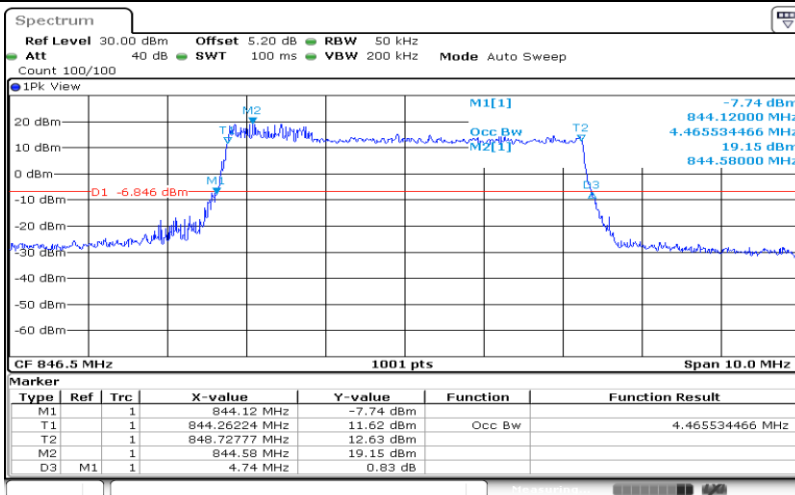


Band5-5MHz-QPSK-20525-25RB#0-4.466



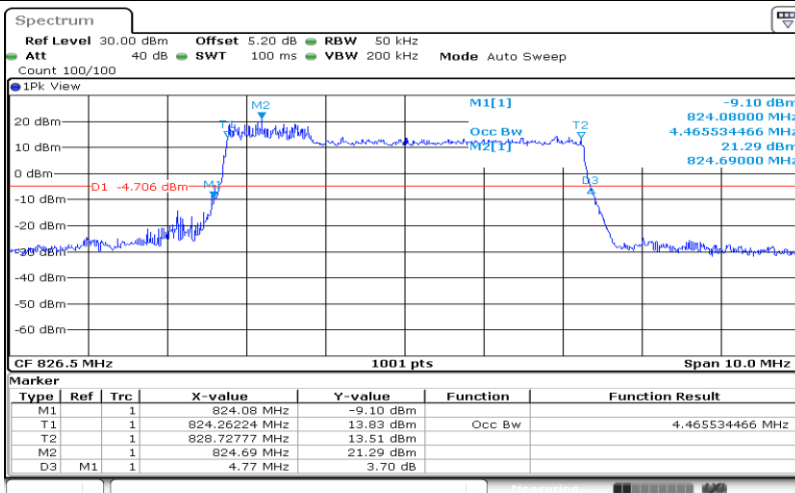
Band5-5MHz-QPSK-20625-25RB#0-4.466





Date: 3 JUN 2020 15:18:43

Band5-5MHz-16QAM-20425-25RB#0-4.466



Date: 3 JUN 2020 15:17:43

Band5-5MHz-16QAM-20525-25RB#0-4.496

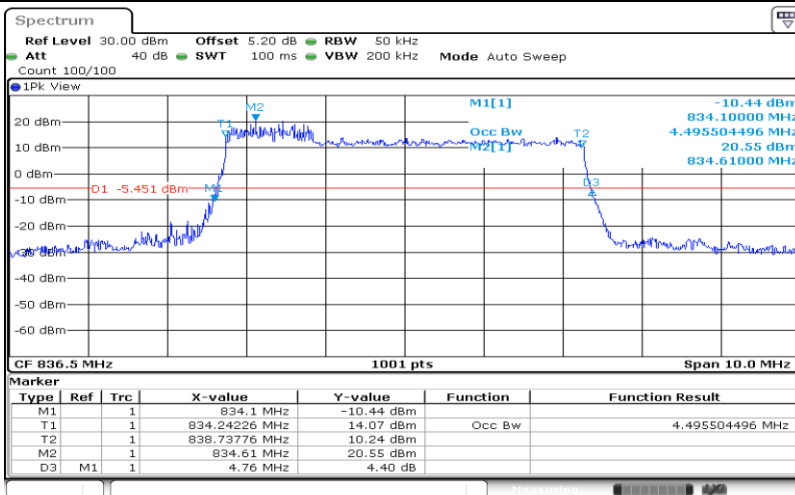


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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.

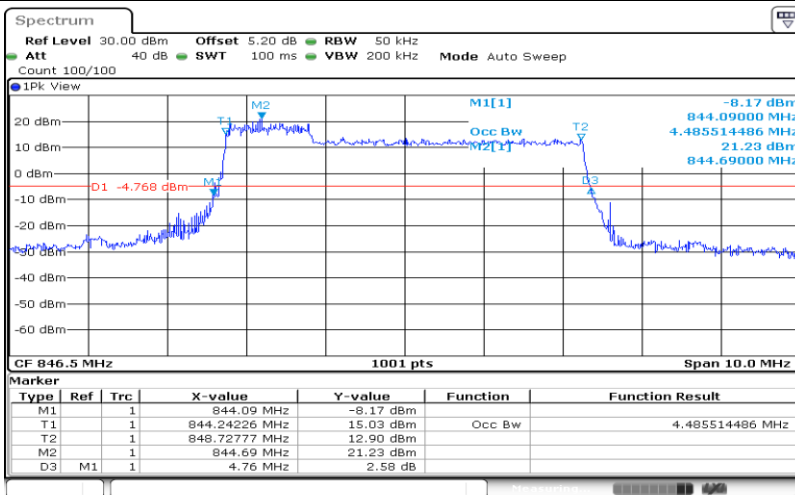
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 3 JUN 2020 15:18:22

Band5-5MHz-16QAM-20625-25RB#0-4.486

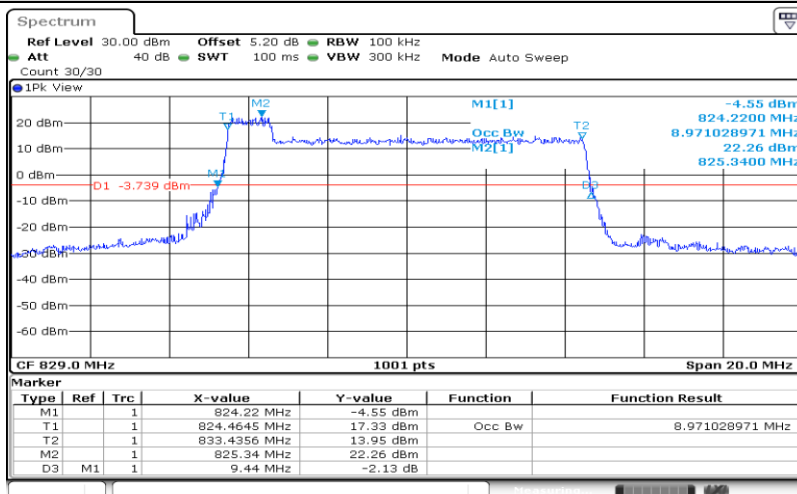


Date: 3 JUN 2020 15:19:02



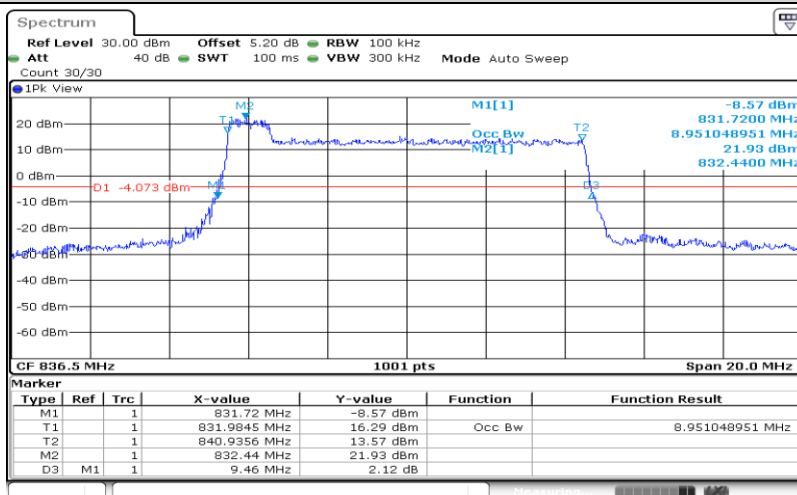


Band5-10MHz-QPSK-20450-50RB#0-8.971



Date: 3 JUN 2020 15:19:21

Band5-10MHz-QPSK-20525-50RB#0-8.951

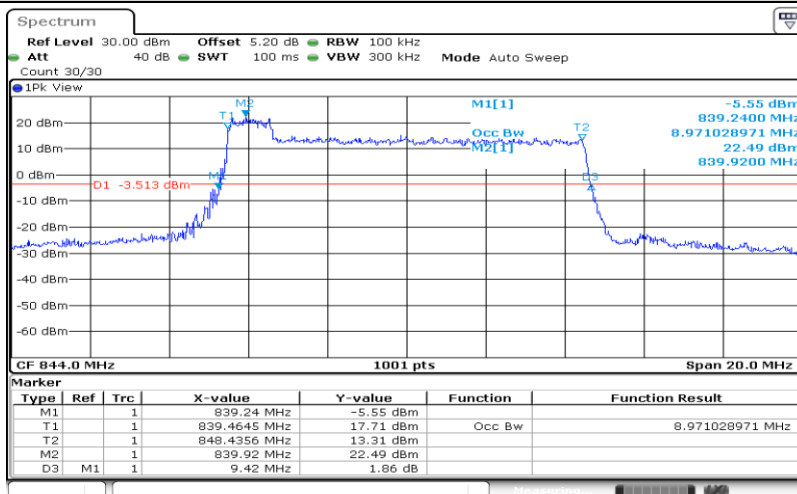


Date: 3 JUN 2020 15:19:47



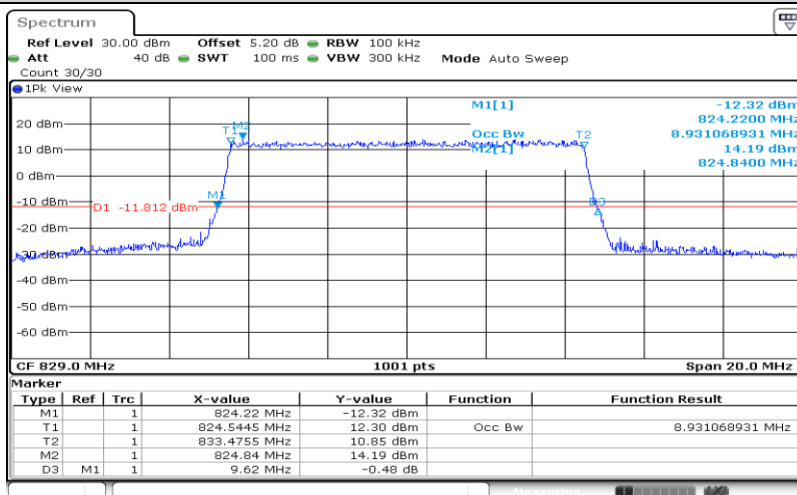


Band5-10MHz-QPSK-20600-50RB#0-8.971



Date: 3 JUN 2020 15:20:13

Band5-10MHz-16QAM-20450-50RB#0-8.931

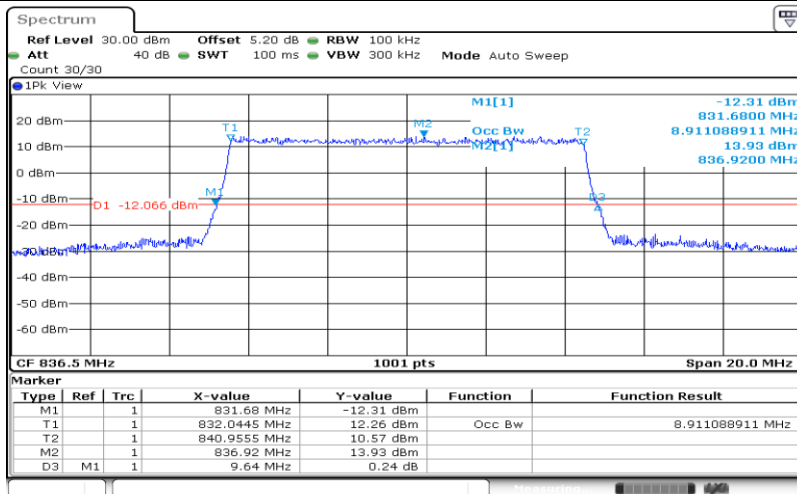


Date: 3 JUN 2020 15:19:33



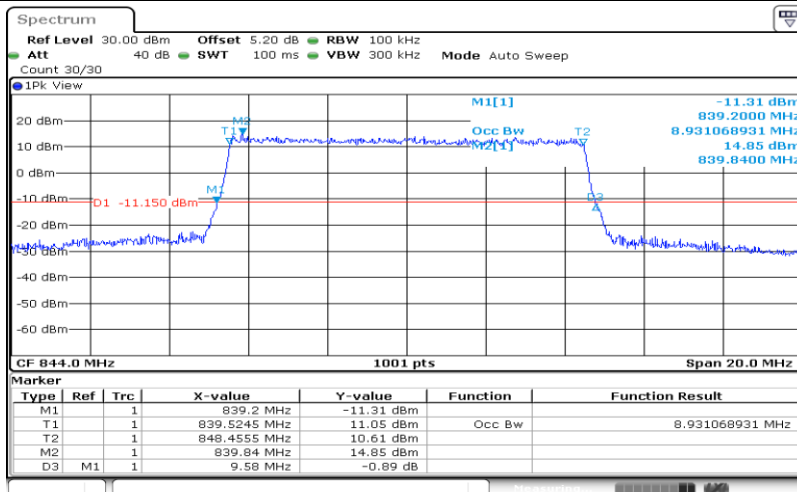


Band5-10MHz-16QAM-20525-50RB#0-8.911



Date: 3 JUN 2020 15:19:59

Band5-10MHz-16QAM-20600-50RB#0-8.931



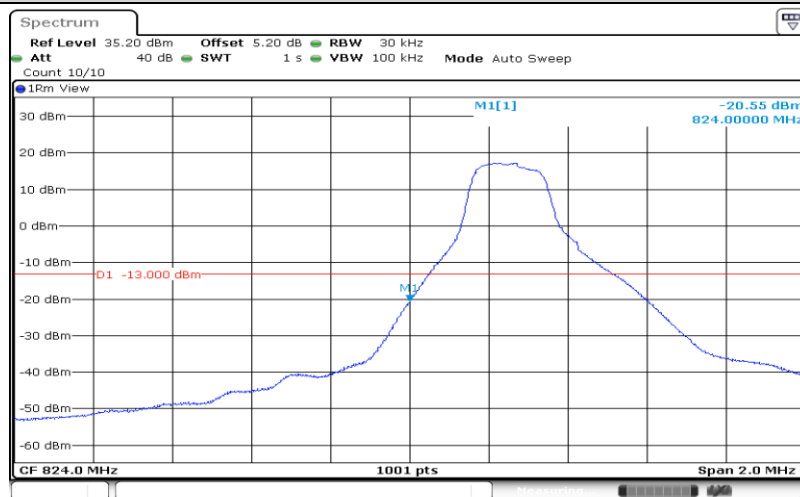
Date: 3 JUN 2020 15:20:25



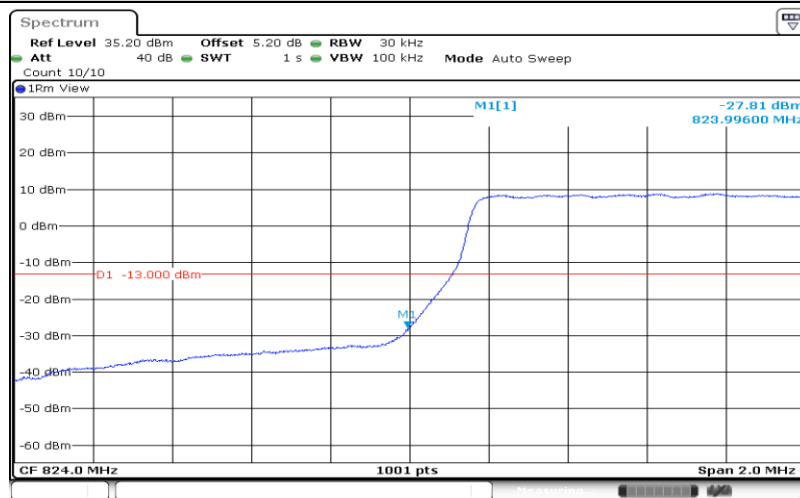
5. Band Edge Compliance

5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-6RB#0



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



Band5-1.4MHz-QPSK-20643-1RB#5



Date: 3 JUN 2020 15:22:20

Band5-1.4MHz-QPSK-20643-6RB#0



Date: 3 JUN 2020 15:23:01

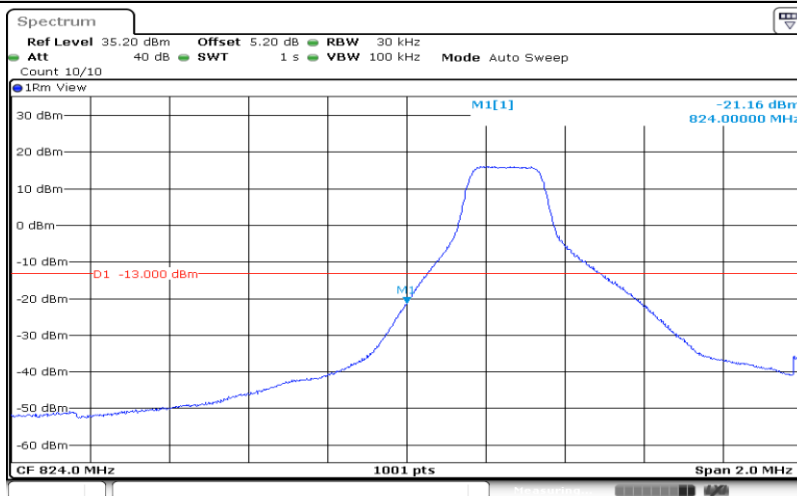


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

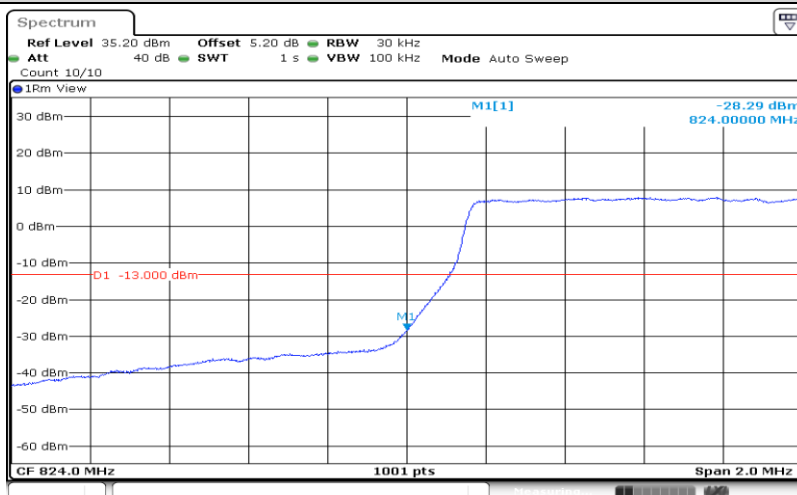


Band5-1.4MHz-16QAM-20407-1RB#0



Date: 3 JUN 2020 15:21:13

Band5-1.4MHz-16QAM-20407-6RB#0



Date: 3 JUN 2020 15:21:55

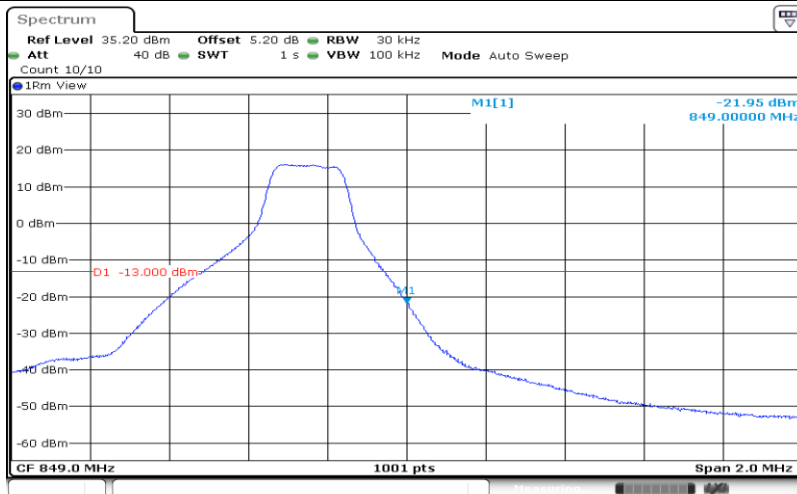


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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



Band5-1.4MHz-16QAM-20643-1RB#5



Date: 3 JUN 2020 15:22:41

Band5-1.4MHz-16QAM-20643-6RB#0



Date: 3 JUN 2020 15:23:22

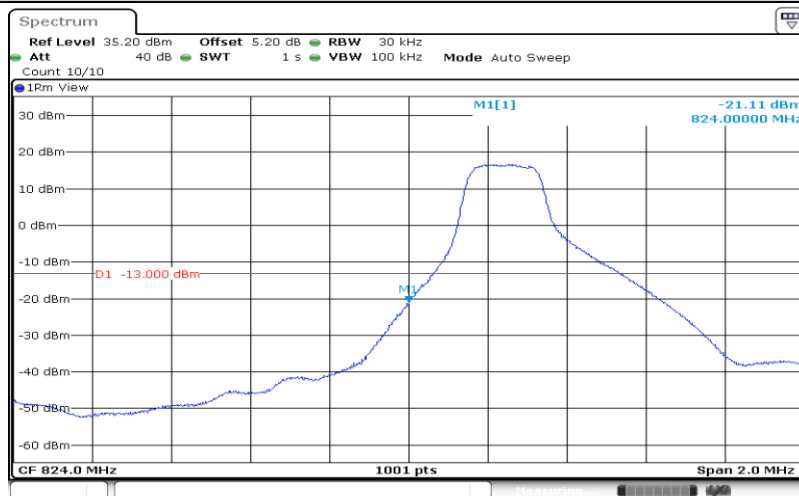


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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-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

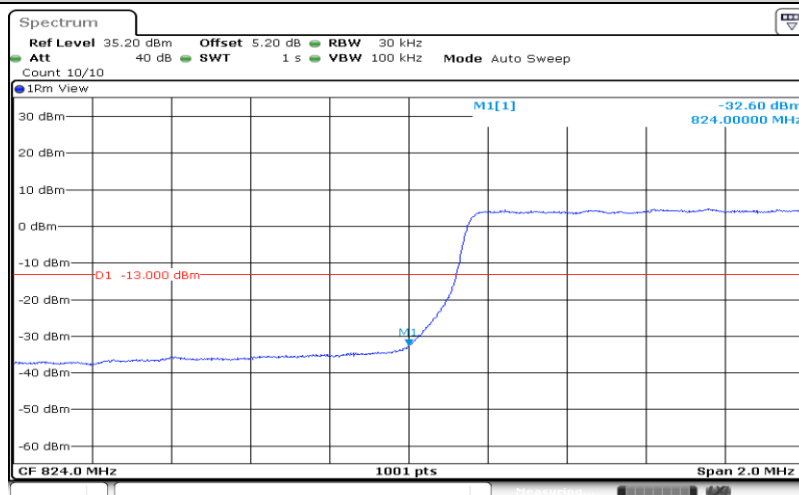


Band5-3MHz-QPSK-20415-1RB#0



Date: 3 JUN 2020 15:23:48

Band5-3MHz-QPSK-20415-15RB#0



Date: 3 JUN 2020 15:24:30





Band5-3MHz-QPSK-20635-1RB#14



Date: 3 JUN 2020 15:25:16

Band5-3MHz-QPSK-20635-15RB#0



Date: 3 JUN 2020 15:25:57



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

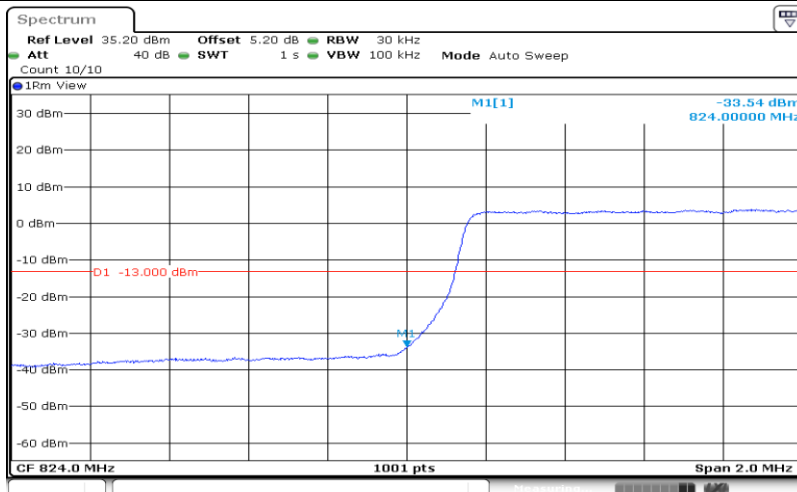


Band5-3MHz-16QAM-20415-1RB#0



Date: 3 JUN 2020 15:24:09

Band5-3MHz-16QAM-20415-15RB#0



Date: 3 JUN 2020 15:24:51



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

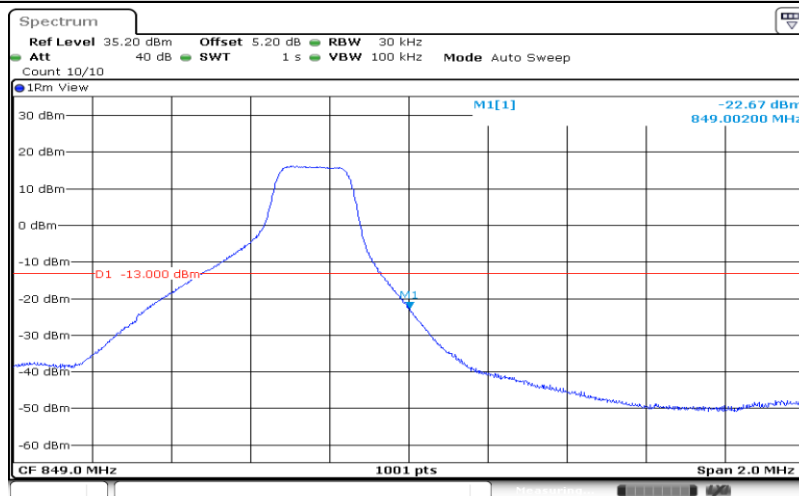
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

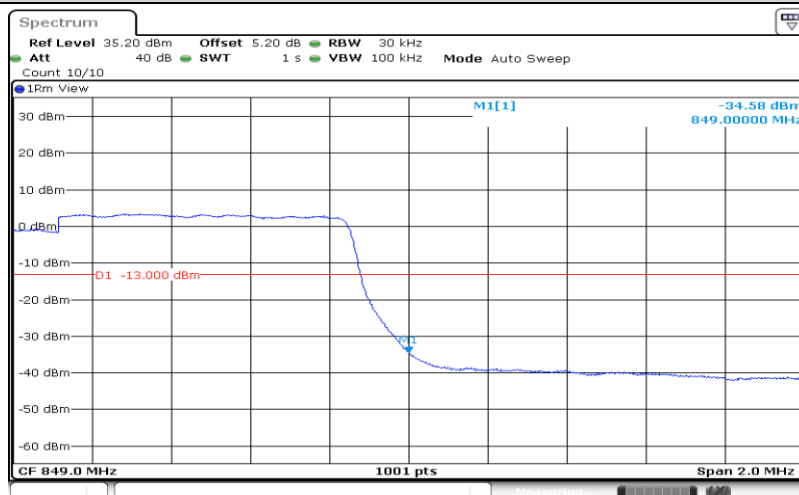


Band5-3MHz-16QAM-20635-1RB#14



Date: 3 JUN 2020 15:25:37

Band5-3MHz-16QAM-20635-15RB#0



Date: 3 JUN 2020 15:26:18



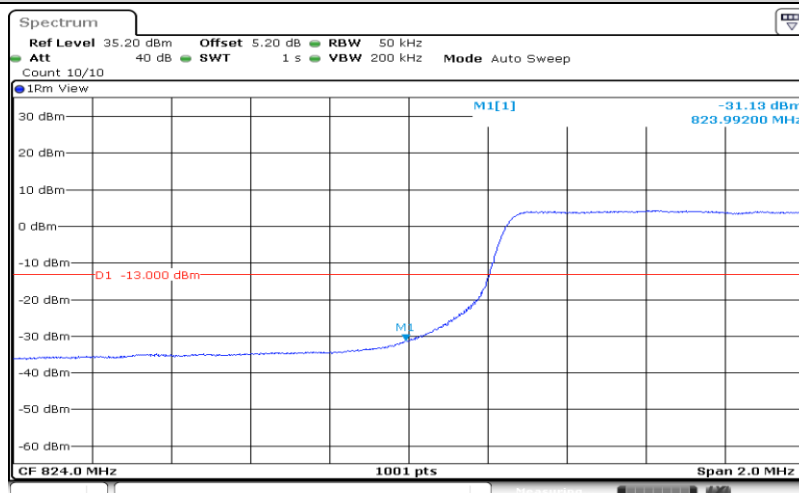


Band5-5MHz-QPSK-20425-1RB#0



Date: 3 JUN 2020 15:26:45

Band5-5MHz-QPSK-20425-25RB#0



Date: 3 JUN 2020 15:27:26



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

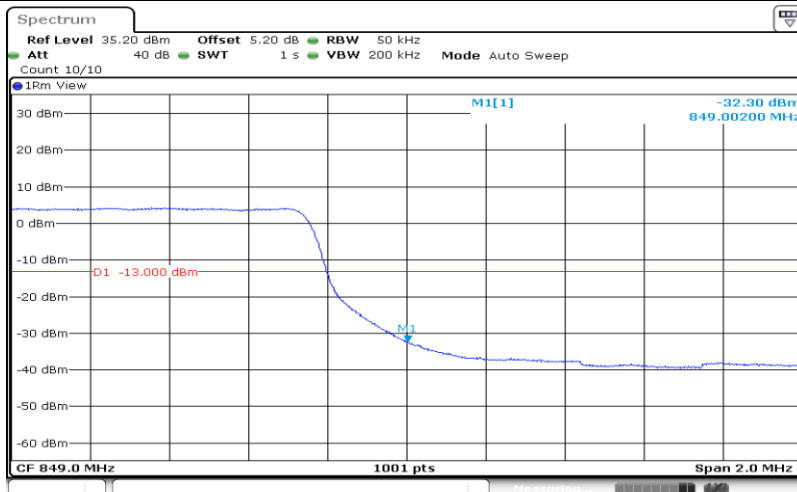


Band5-5MHz-QPSK-20625-1RB#24



Date: 3 JUN 2020 15:28:12

Band5-5MHz-QPSK-20625-25RB#0



Date: 3 JUN 2020 15:28:54



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

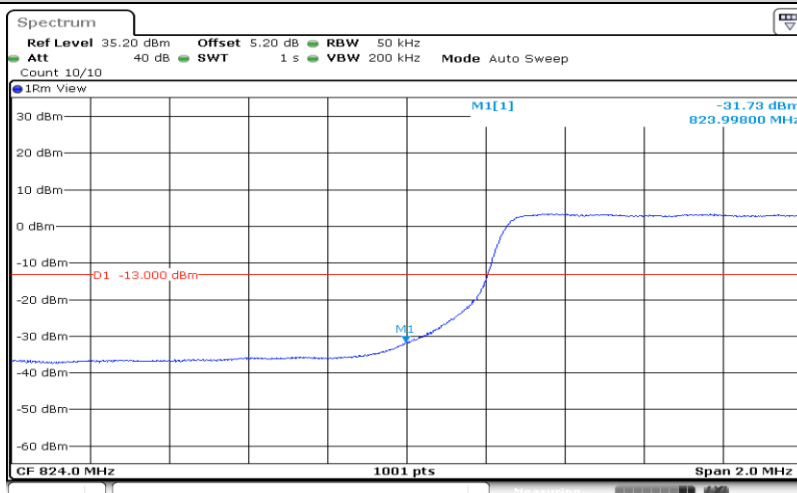


Band5-5MHz-16QAM-20425-1RB#0



Date: 3 JUN 2020 15:27:05

Band5-5MHz-16QAM-20425-25RB#0



Date: 3 JUN 2020 15:27:47



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

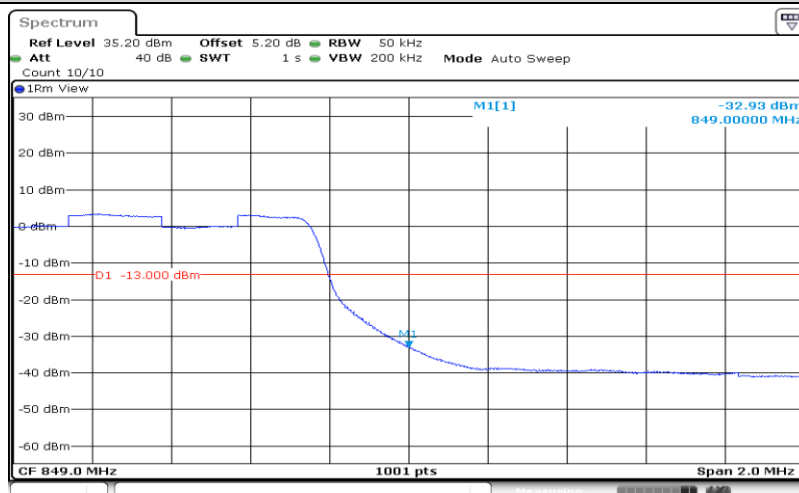


Band5-5MHz-16QAM-20625-1RB#24



Date: 3 JUN 2020 15:28:33

Band5-5MHz-16QAM-20625-25RB#0



Date: 3 JUN 2020 15:29:15



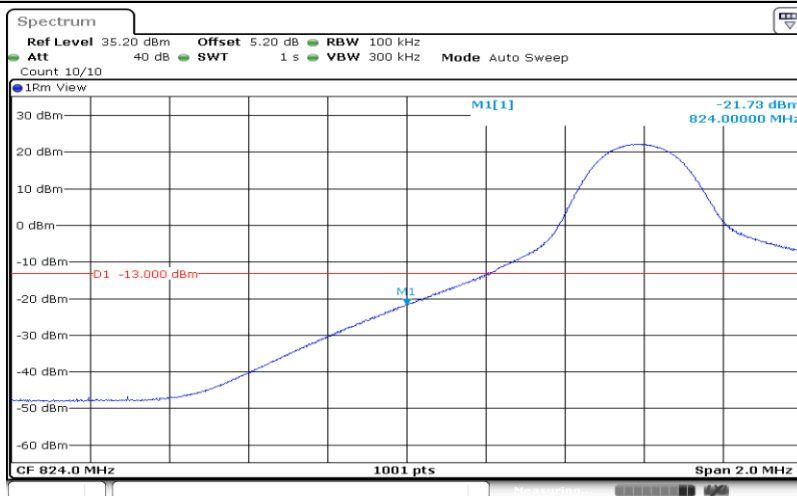
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

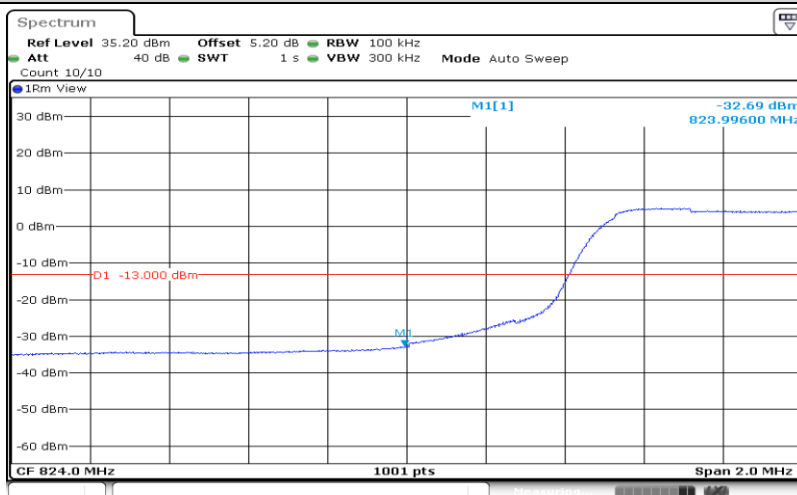


Band5-10MHz-QPSK-20450-1RB#0



Date: 3 JUN 2020 15:29:41

Band5-10MHz-QPSK-20450-50RB#0



Date: 3 JUN 2020 15:30:22



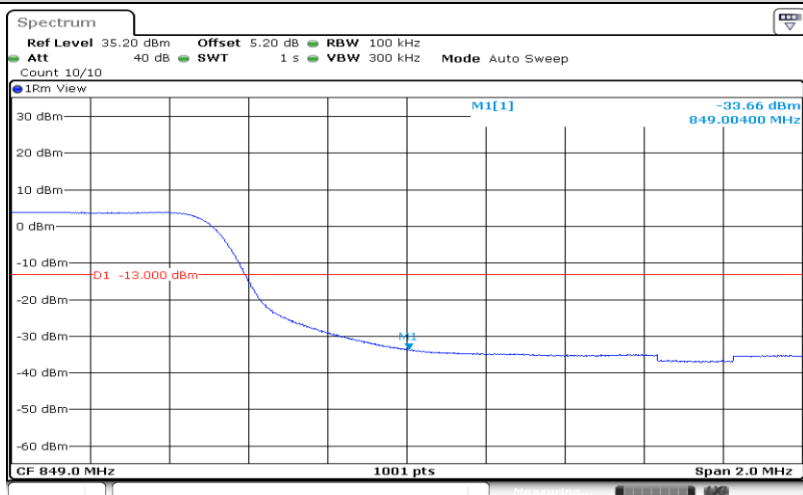


Band5-10MHz-QPSK-20600-1RB#49



Date: 3 JUN 2020 15:31:08

Band5-10MHz-QPSK-20600-50RB#0



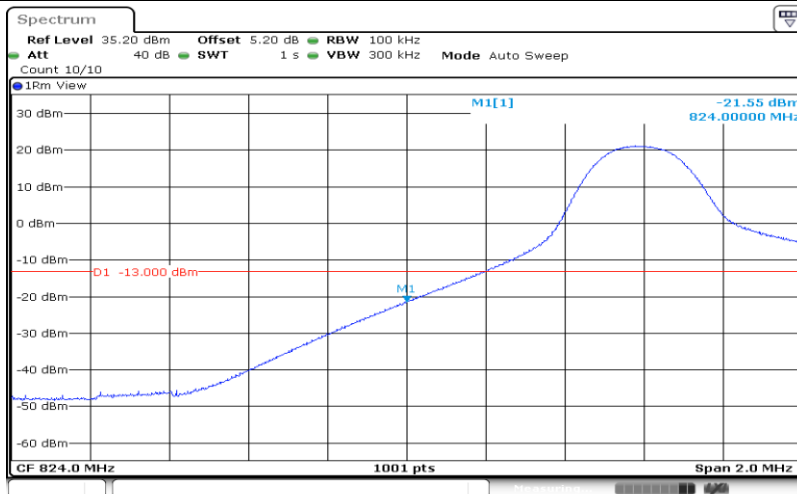
Date: 3 JUN 2020 15:31:49



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

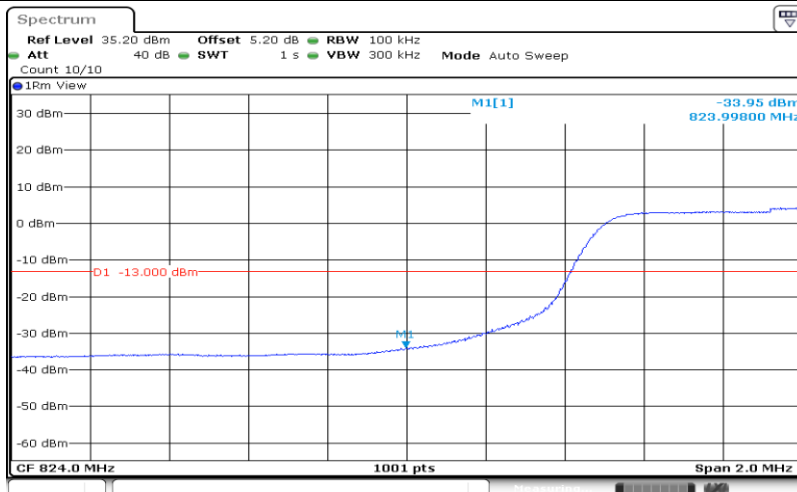


Band5-10MHz-16QAM-20450-1RB#0



Date: 3 JUN 2020 15:30:02

Band5-10MHz-16QAM-20450-50RB#0



Date: 3 JUN 2020 15:30:43

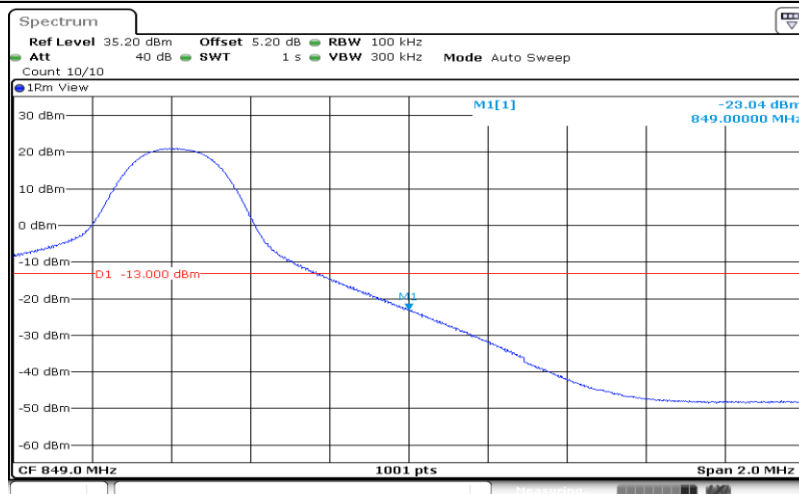


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center EEC Laboratory

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

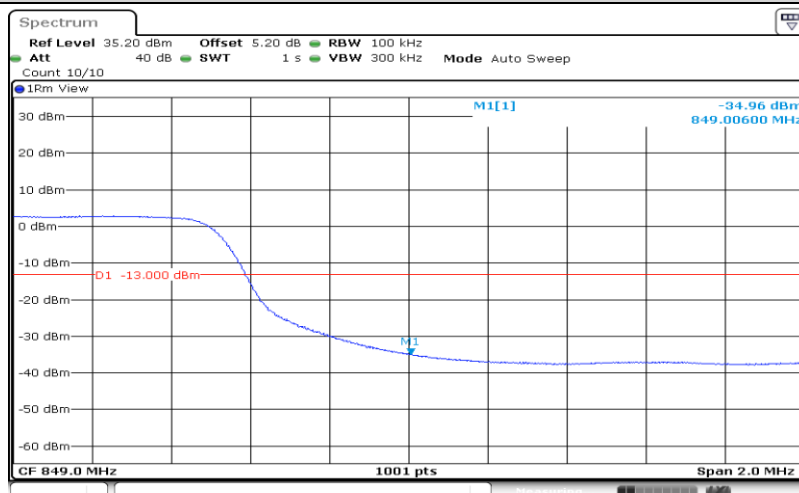


Band5-10MHz-16QAM-20600-1RB#49



Date: 3 JUN 2020 15:31:28

Band5-10MHz-16QAM-20600-50RB#0



Date: 3 JUN 2020 15:32:10



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

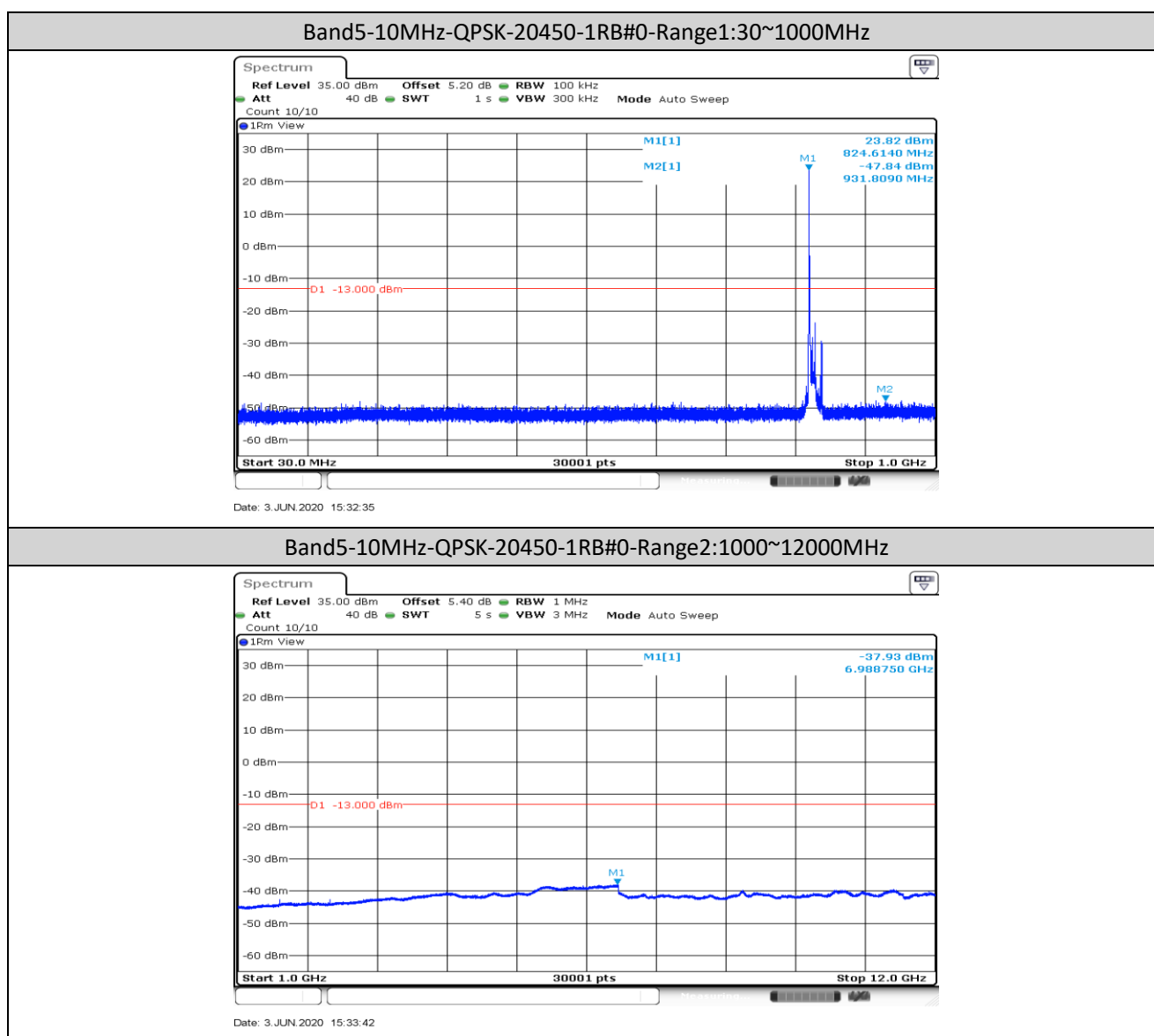
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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.

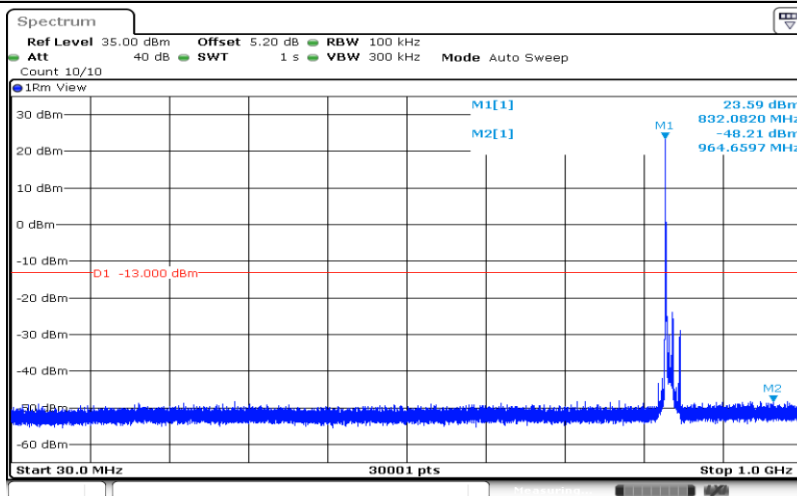
6.1. Test Plots



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.

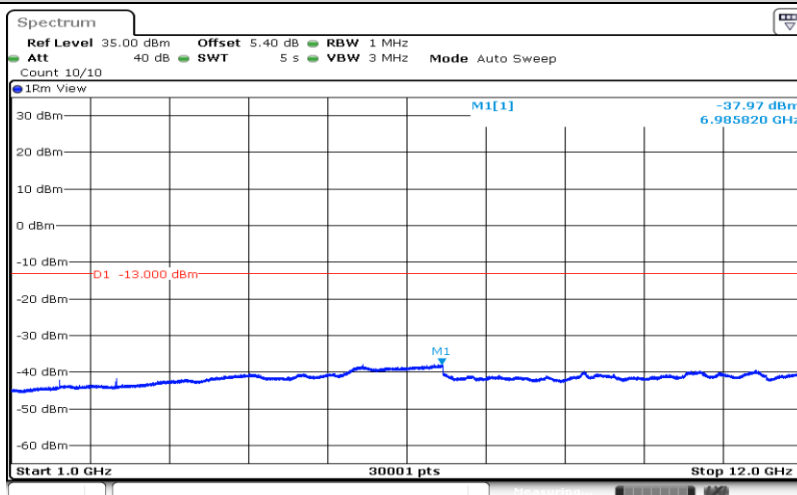
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:35:29

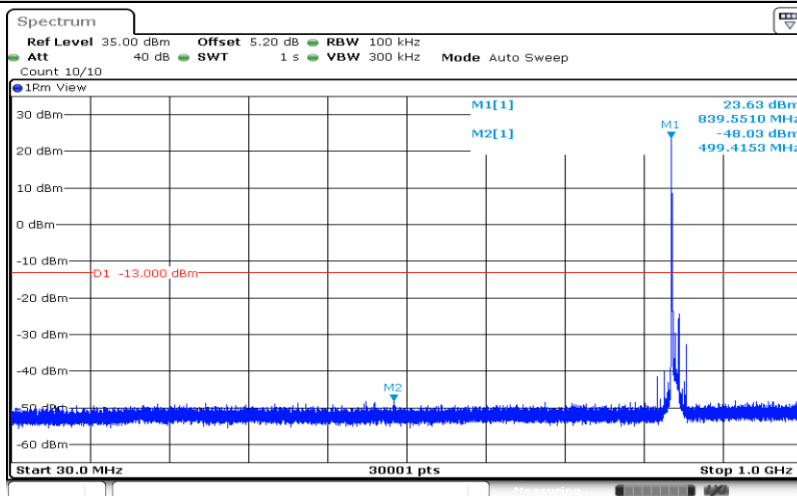
Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz



Date: 3 JUN 2020 15:36:36

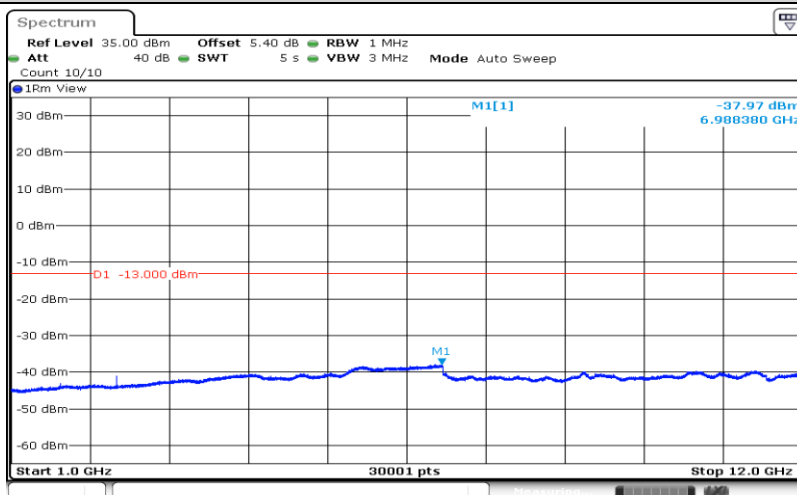


Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:38:24

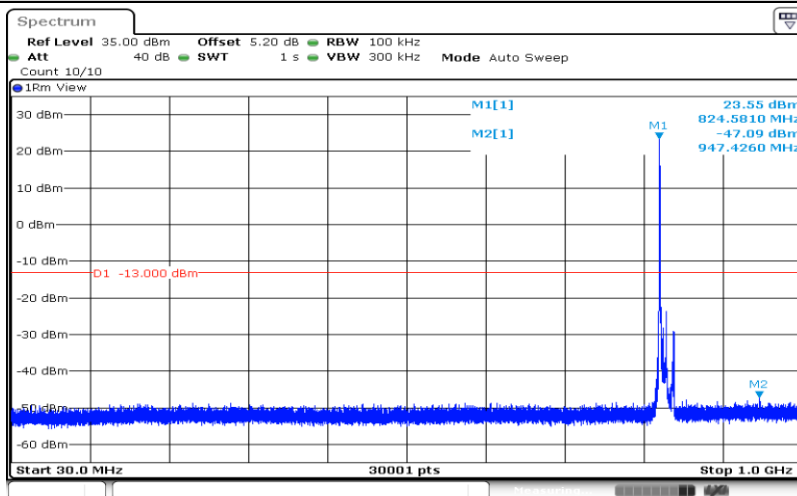
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



Date: 3 JUN 2020 15:39:31

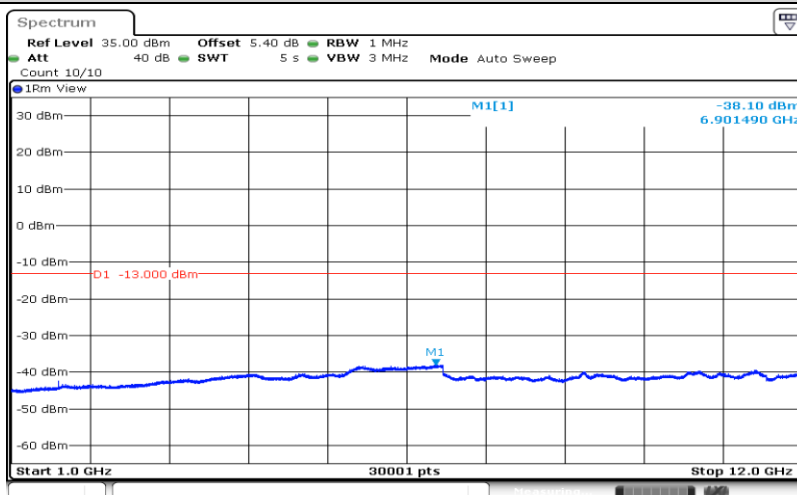


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:34:02

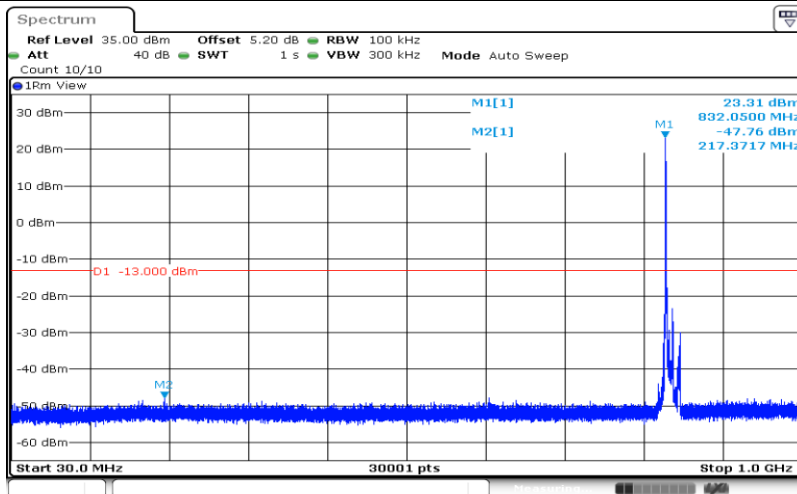
Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



Date: 3 JUN 2020 15:35:09

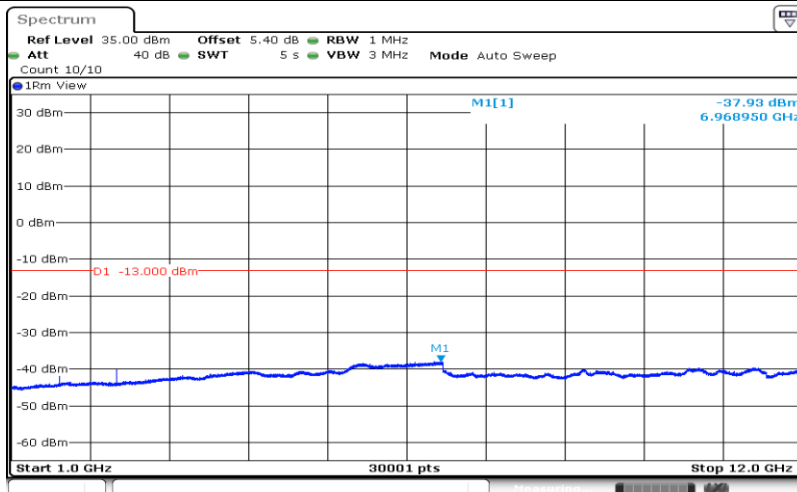


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:36:56

Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



Date: 3 JUN 2020 15:38:03

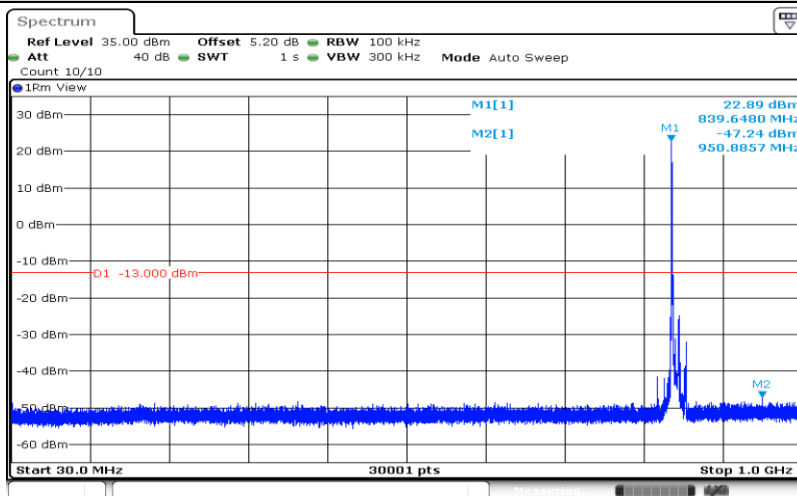


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

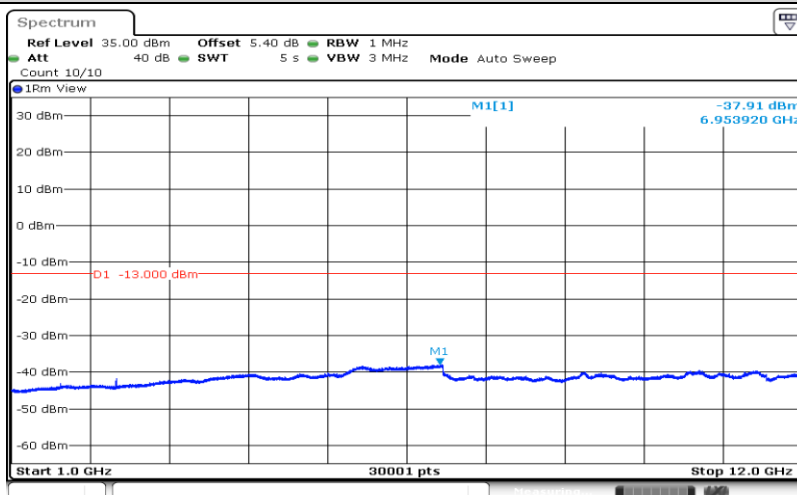
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 15:39:51

Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



Date: 3 JUN 2020 15:40:58





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
105.4213	-62.69	-13.00	49.69	Vertical
582.7336	-61.56	-13.00	48.56	Vertical
1648.9298	-62.44	-13.00	49.44	Vertical
2697.1394	-57.50	-13.00	44.50	Vertical
7349.1450	-56.01	-13.00	43.01	Vertical
8771.5924	-54.68	-13.00	41.68	Vertical
43.6292	-61.98	-13.00	48.98	Horizontal
231.4306	-65.02	-13.00	52.02	Horizontal
1648.9298	-57.91	-13.00	44.91	Horizontal
2699.5399	-56.57	-13.00	43.57	Horizontal
7480.9494	-56.42	-13.00	43.42	Horizontal
8816.9939	-54.93	-13.00	41.93	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.3015	-62.37	-13.00	49.37	Vertical
614.8907	-60.92	-13.00	47.92	Vertical
1500.1000	-65.27	-13.00	52.27	Vertical
2698.3397	-57.70	-13.00	44.70	Vertical
3616.4205	-61.64	-13.00	48.64	Vertical
7363.9455	-56.15	-13.00	43.15	Vertical
43.9687	-61.86	-13.00	48.86	Horizontal
237.5904	-65.63	-13.00	52.63	Horizontal
1664.1328	-62.90	-13.00	49.90	Horizontal
2693.9388	-56.44	-13.00	43.44	Horizontal
7362.3454	-56.82	-13.00	43.82	Horizontal
8843.1948	-55.09	-13.00	42.09	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 and certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.2555	-68.47	-13.00	55.47	Vertical
112.3571	-62.27	-13.00	49.27	Vertical
444.8412	-64.90	-13.00	51.90	Vertical
1678.9358	-62.20	-13.00	49.20	Vertical
2510.3021	-51.62	-13.00	38.62	Vertical
8014.7672	-55.60	-13.00	42.60	Vertical
42.1741	-61.64	-13.00	48.64	Horizontal
234.7287	-65.71	-13.00	52.71	Horizontal
493.5862	-63.53	-13.00	50.53	Horizontal
1678.9358	-58.24	-13.00	45.24	Horizontal
2510.3021	-49.95	-13.00	36.95	Horizontal
5099.6700	-61.26	-13.00	48.26	Horizontal

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 displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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

Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-7.20	-0.008685	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-12.20	-0.014717	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-5.00	-0.006031	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-7.70	-0.009205	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-2.50	-0.002989	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-4.00	-0.004739	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-4.70	-0.005569	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-11.40	-0.013507	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-5.10	-0.006152	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-3.60	-0.004343	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-3.60	-0.004304	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-6.70	-0.007938	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-2.70	-0.003199	±2.5	PASS





8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-10.60	-0.012786	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-9.60	-0.011580	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-9.70	-0.011701	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-5.70	-0.006876	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-3.70	-0.004463	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-4.40	-0.005308	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-6.90	-0.008249	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-9.40	-0.011237	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-5.60	-0.006695	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-4.60	-0.005499	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-11.10	-0.013270	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.80	-0.003347	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-2.80	-0.003318	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-8.10	-0.009597	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-6.90	-0.008175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-4.30	-0.005095	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-6.40	-0.007583	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-4.10	-0.004858	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-2.80	-0.003318	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-5.70	-0.006754	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-6.10	-0.007358	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-3.90	-0.004704	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-7.80	-0.009409	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-4.60	-0.005549	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-7.60	-0.009168	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-6.40	-0.007720	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-6.70	-0.008082	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-6.20	-0.007412	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-7.20	-0.008607	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-6.70	-0.008010	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-3.10	-0.003706	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-5.40	-0.006455	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-6.40	-0.007651	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	5.60	0.006695	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-9.80	-0.011611	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-6.50	-0.007701	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-1.80	-0.002133	±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.

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	10MHz	16QAM	20600	50RB#0	NV	10	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-8.00	-0.009479	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-7.60	-0.009005	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-8.90	-0.010545	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-1.80	-0.002133	±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.

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.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