



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.....	4
1.1.	TEST RESULT.....	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	12
2.1.	TEST RESULT.....	12
2.2.	TEST PLOTS	12
3.	MODULATION CHARACTERISTICS	17
3.1.	TEST MODE = LTE /TM1 10MHZ	17
3.1.1.	TEST CHANNEL = MCH	17
3.2.	TEST MODE = LTE /TM2 10MHZ	18
3.2.1.	TEST CHANNEL = MCH	18
3.3.	TEST MODE = LTE /TM3 10MHZ	19
3.3.1.	TEST CHANNEL = MCH	19
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	20
4.1.	TEST RESULT.....	20
4.2.	TEST PLOTS	21
5.	BAND EDGE COMPLIANCE	40
5.1.	TEST PLOTS	40
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	65
6.1.	TEST PLOTS	65
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	75
7.1.	TEST MODE =LTE/TM1 10MHZ(UP ANTENNA)	75
7.1.1.	TEST CHANNEL = LCH	75
7.1.2.	TEST CHANNEL = MCH	75
7.1.3.	TEST CHANNEL = HCH	76
7.2.	TEST MODE =LTE/TM1 10MHZ(DOWN ANTENNA)	77
7.2.1.	TEST CHANNEL = LCH	77
7.2.2.	TEST CHANNEL = MCH	77
7.2.3.	TEST CHANNEL = HCH	78



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



8.	FREQUENCY STABILITY.....	79
8.1.	FREQUENCY VS VOLTAGE.....	79
8.2.	FREQUENCY VS TEMPERATURE	79



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

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	23.95	15.91	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.50	15.46	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.15	16.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.56	15.52	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.64	15.6	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.60	15.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.83	14.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.85	15.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.48	15.44	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.67	15.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.52	15.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.44	15.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.40	15.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.57	14.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.91	15.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.81	15.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.70	15.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.56	15.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.36	15.32	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.54	15.5	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.55	14.51	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.37	14.33	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.25	14.21	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.33	14.29	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.73	13.69	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	21.86	13.82	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.70	13.66	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

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	1.4MHz	64QAM	20407	6RB#0	20.80	12.76	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.29	14.25	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.94	13.9	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.02	13.98	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.63	13.59	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	21.61	13.57	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.50	13.46	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.60	12.56	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.51	14.47	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.94	13.9	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.54	14.5	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.63	13.59	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	21.70	13.66	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	21.66	13.62	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.66	12.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.26	15.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.14	15.1	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.22	15.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.62	14.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.75	14.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.59	14.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.69	13.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.18	15.14	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.83	14.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.91	14.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.52	14.48	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.50	14.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.39	14.35	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.49	13.45	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.40	15.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.83	14.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.43	15.39	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.52	14.48	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 / 深圳分公司 / 检验检测实验室

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	1.4MHz	16QAM	20643	3RB#1	22.59	14.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.55	14.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.55	13.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.96	15.92	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.58	15.54	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.20	16.16	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.69	14.65	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.67	14.63	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.73	14.69	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.83	14.79	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.90	15.86	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.57	15.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.77	15.73	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.60	14.56	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.50	14.46	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.53	14.49	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.69	14.65	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.96	15.92	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.95	15.91	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.82	15.78	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.68	14.64	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.47	14.43	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.59	14.55	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.66	14.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.62	14.58	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.30	14.26	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.59	14.55	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	20.98	12.94	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	21.01	12.97	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.90	12.86	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.01	12.97	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.46	14.42	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.23	14.19	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 / 深圳分公司 / SGS-CSTC 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	3MHz	64QAM	20525	1RB#8	22.38	14.34	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.86	12.82	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	20.75	12.71	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.90	12.86	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.84	12.8	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.62	14.58	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.14	14.1	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.69	14.65	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.92	12.88	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.93	12.89	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	20.87	12.83	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.86	12.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.37	15.33	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.16	15.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.34	15.3	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.67	13.63	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.80	13.76	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.60	13.56	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.80	13.76	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.28	15.24	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.93	14.89	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.04	15	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.62	13.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.60	13.56	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.52	13.48	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.57	13.53	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.46	15.42	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.89	14.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.47	15.43	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.59	13.55	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.61	13.57	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.58	13.54	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.69	13.65	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 / 深圳分公司 / SGS-CSTC 实验室

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	5MHz	QPSK	20425	1RB#24	24.03	15.99	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.70	15.66	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.26	16.22	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.74	14.7	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.71	14.67	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.77	14.73	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.88	14.84	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.04	16	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.65	15.61	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.83	15.79	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.76	14.72	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.98	15.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.97	15.93	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.84	15.8	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.71	14.67	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.60	14.56	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.68	14.64	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.67	14.63	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.48	14.44	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.27	14.23	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.45	14.41	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.78	12.74	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.91	12.87	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.71	12.67	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.91	12.87	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.39	14.35	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.04	14	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.15	14.11	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	20.73	12.69	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.71	12.67	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 / 深圳分公司 / SGS-CSTC 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	5MHz	64QAM	20525	12RB#6	20.63	12.59	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.68	12.64	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.57	14.53	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.00	13.96	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.58	14.54	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.70	12.66	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.72	12.68	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.69	12.65	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.80	12.76	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.37	15.33	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.17	15.13	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.45	15.41	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.79	13.75	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.84	13.8	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.69	13.65	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.86	13.82	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.31	15.27	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.98	14.94	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.18	15.14	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.70	13.66	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.63	13.59	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.66	13.62	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.59	13.55	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.47	15.43	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.97	14.93	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.52	15.48	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.72	13.68	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.71	13.67	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.68	13.64	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.74	13.7	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.17	16.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.78	15.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.27	16.23	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 / 深圳分公司 / 检验检测专用章

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	QPSK	20450	25RB#12	22.79	14.75	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.81	14.77	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.85	14.81	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.88	14.84	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.04	16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.65	15.61	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.88	15.84	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.72	14.68	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.65	14.61	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.74	14.7	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.88	14.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.03	15.99	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.02	15.98	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.92	15.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.71	14.67	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.70	14.66	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.69	14.65	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.78	14.74	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.48	14.44	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.28	14.24	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.56	14.52	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	20.90	12.86	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.95	12.91	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.80	12.76	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.97	12.93	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.42	14.38	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.09	14.05	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.29	14.25	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.81	12.77	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	20.74	12.7	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	20.77	12.73	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.70	12.66	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.58	14.54	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.

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 / 深圳分公司 / 检验检测专用章

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	64QAM	20600	1RB#0	22.08	14.04	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.63	14.59	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	20.83	12.79	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.82	12.78	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	20.79	12.75	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.85	12.81	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.51	15.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.19	15.15	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.48	15.44	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.87	13.83	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.90	13.86	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.79	13.75	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.90	13.86	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.35	15.31	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.12	15.08	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.27	15.23	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.75	13.71	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.64	13.6	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.79	13.75	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.73	13.69	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.51	15.47	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.03	14.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.58	15.54	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.81	13.77	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.82	13.78	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.76	13.72	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.75	13.71	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 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.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

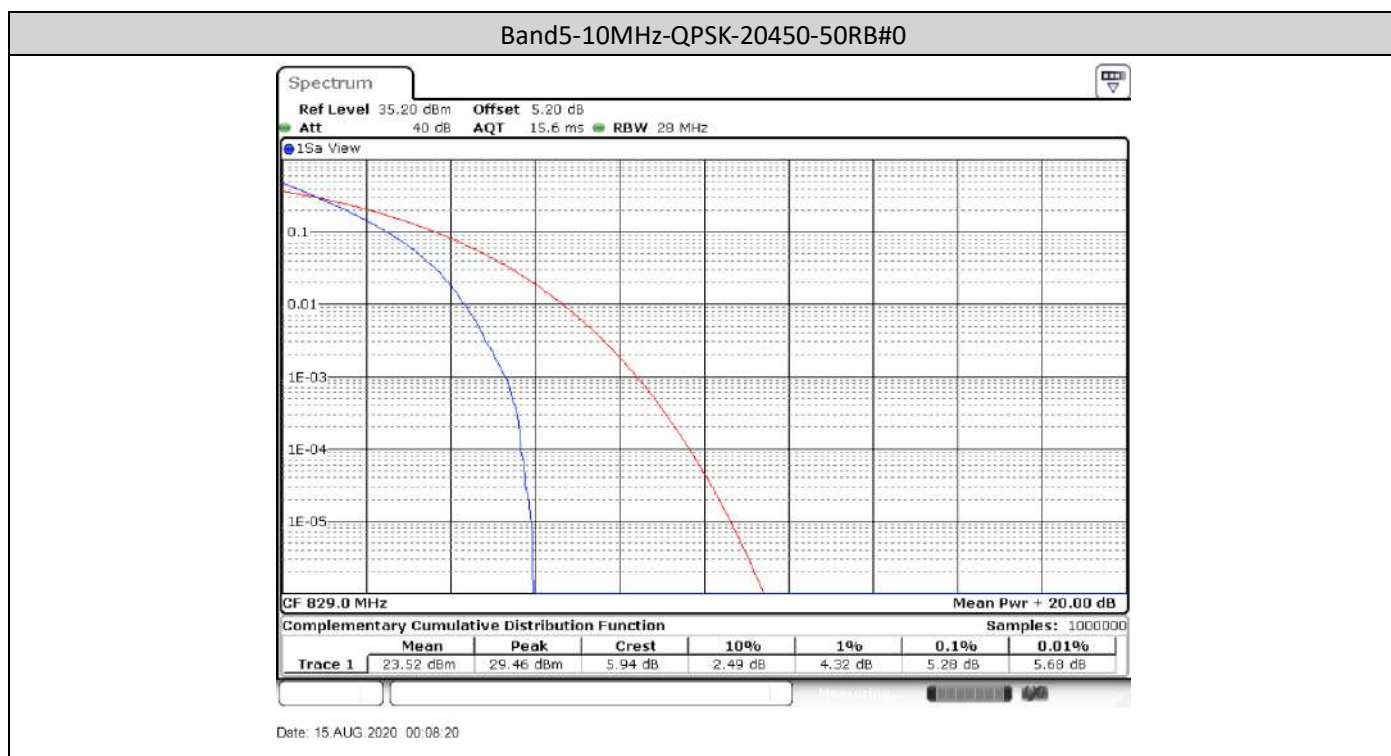


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.28	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.35	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.35	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.35	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.97	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.97	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 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-20525-50RB#0



Date: 15 AUG 2020 00:08:43

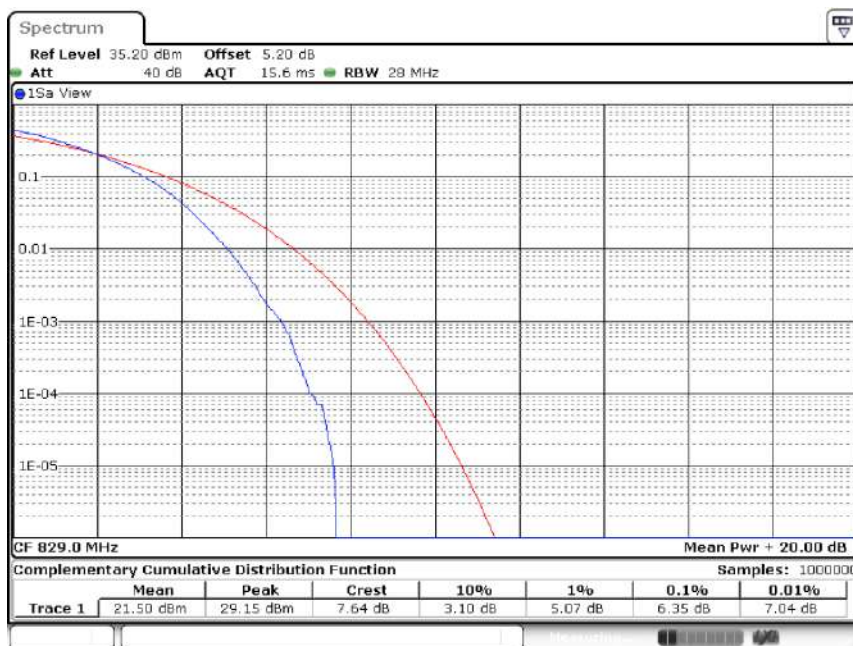
Band5-10MHz-QPSK-20600-50RB#0



Date: 15 AUG 2020 00:09:06

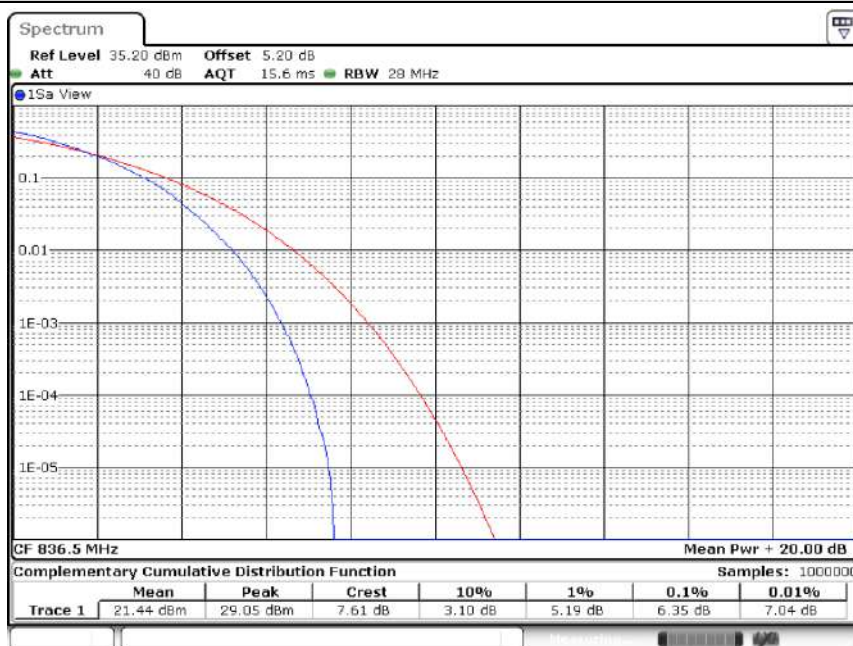


Band5-10MHz-64QAM-20450-50RB#0



Date: 15 AUG 2020 02:18:03

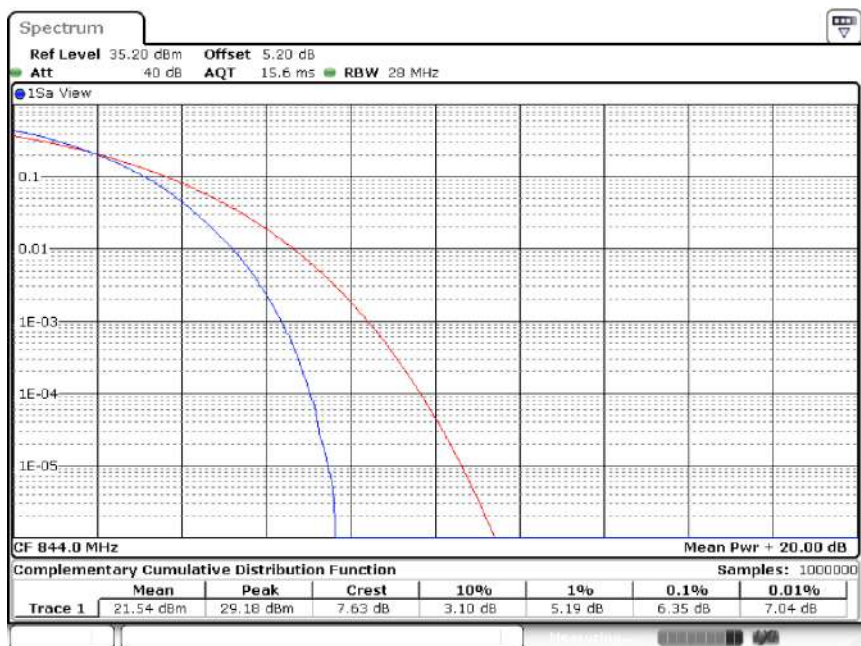
Band5-10MHz-64QAM-20525-50RB#0



Date: 15 AUG 2020 02:18:15



Band5-10MHz-64QAM-20600-50RB#0



Date: 15 AUG 2020 02:18:27

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



Date: 15 AUG 2020 00:08:31



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-20525-50RB#0



Date: 15 AUG 2020 00:08:54

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



Date: 15 AUG 2020 00:09:17

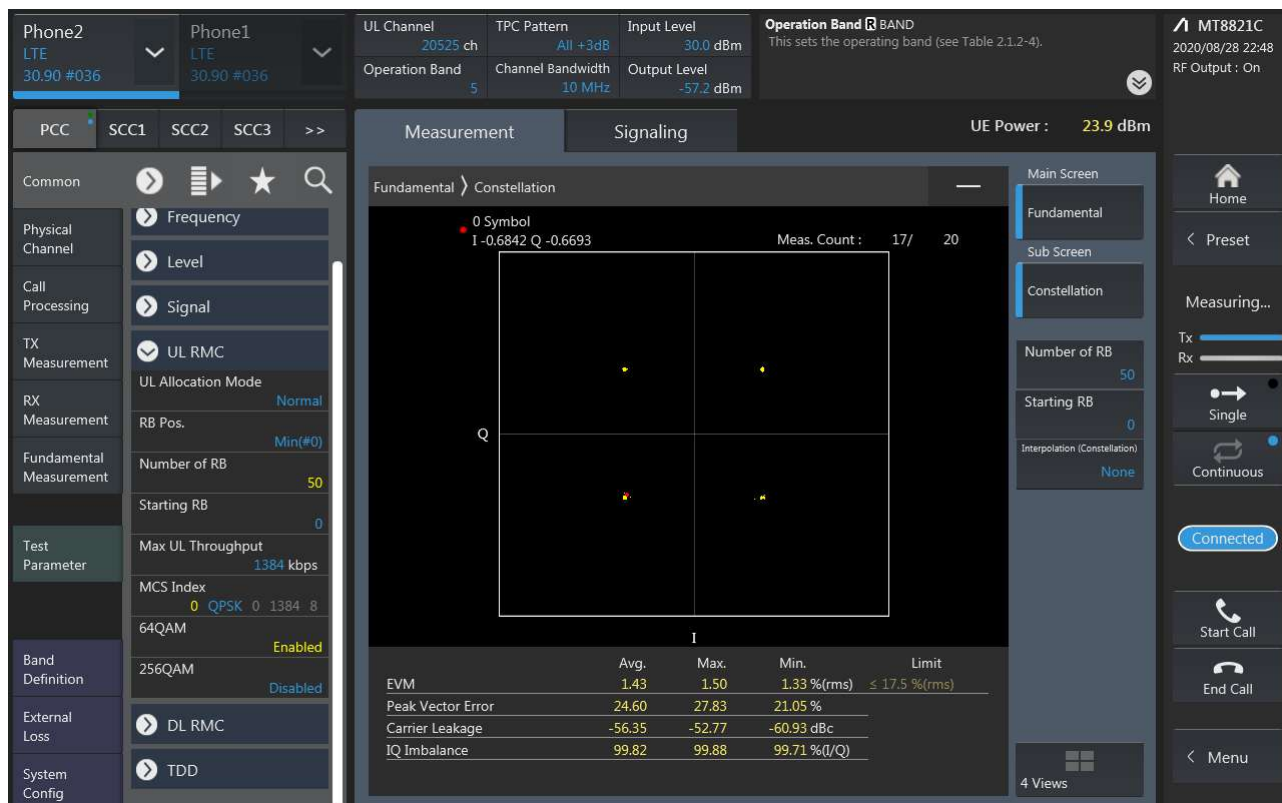




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

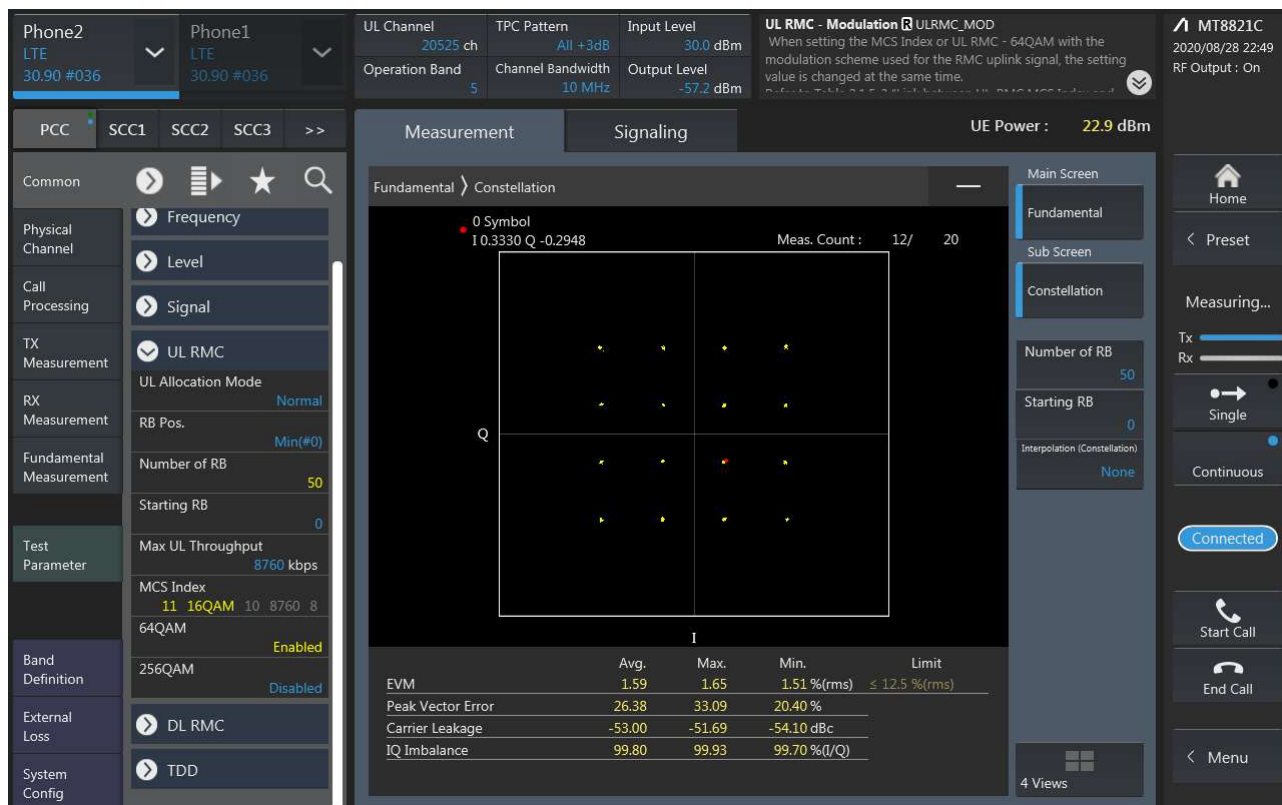
3.1.1. Test Channel = MCH





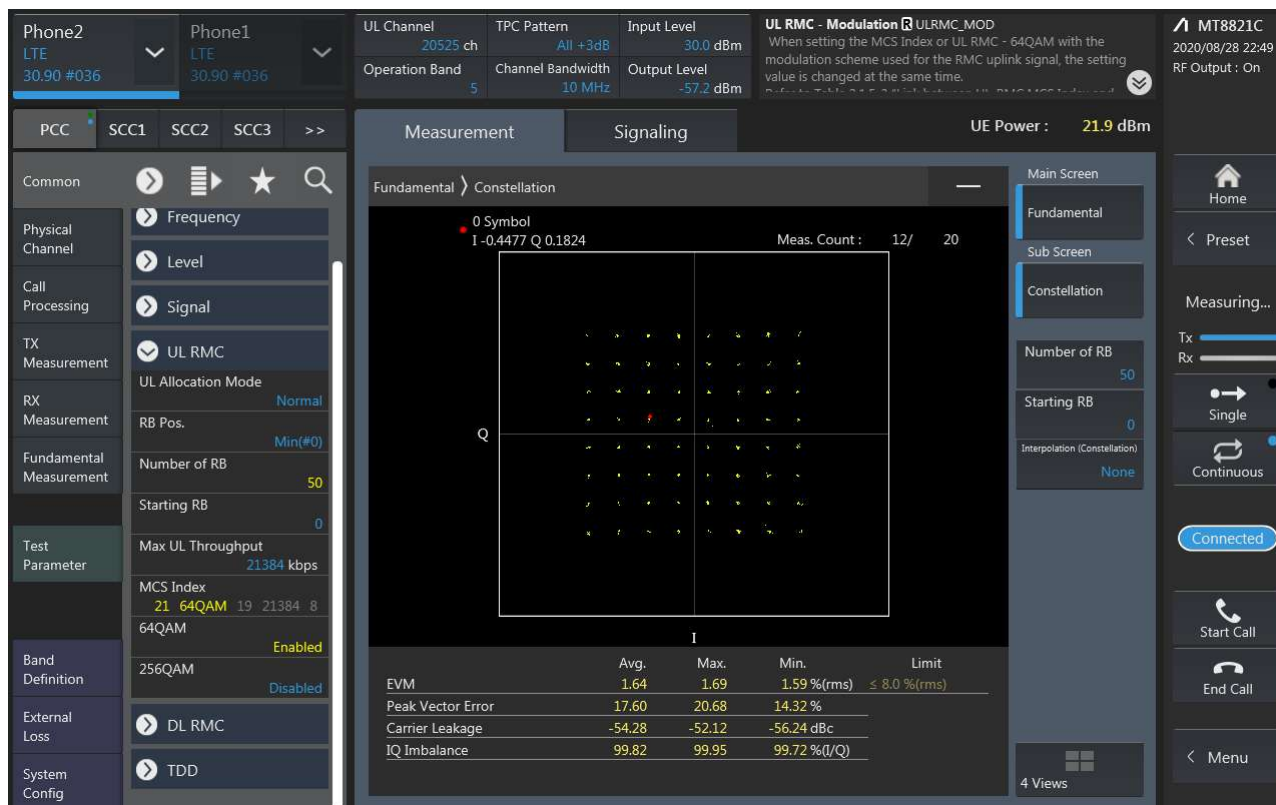
3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back of the report, 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 dispute. This document is not to be used for any purpose other than that for which it was issued and any use of the report, in whole or in part, 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, Email: sgs@sgs.com or sgs@sgs.com.cn

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

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楼一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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	1.094	1.284	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.299	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.287	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.296	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.278	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.988	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.982	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.982	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.685	2.976	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.964	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.964	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.920	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.950	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.900	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.890	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.970	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.891	9.660	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.780	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.911	9.640	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 / 深圳分公司 / 实验室

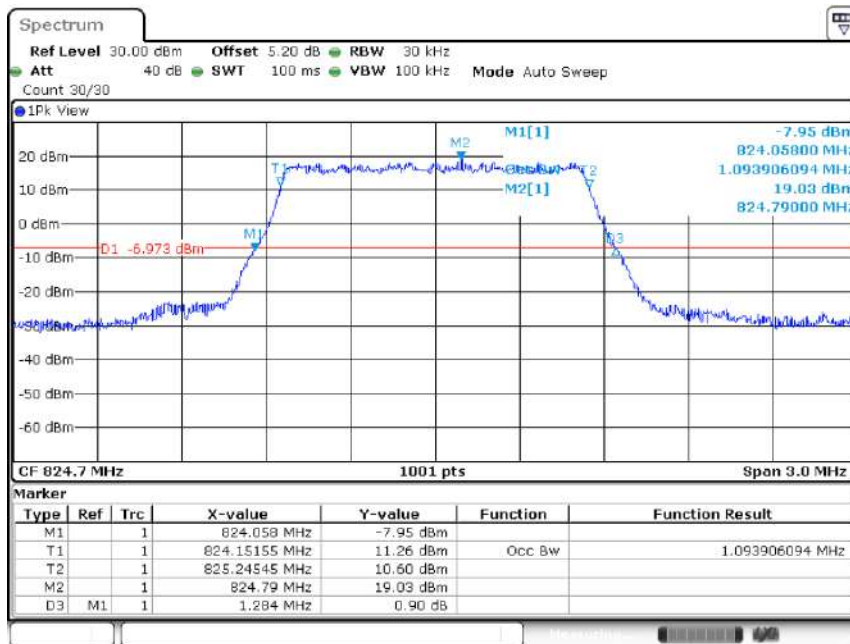
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



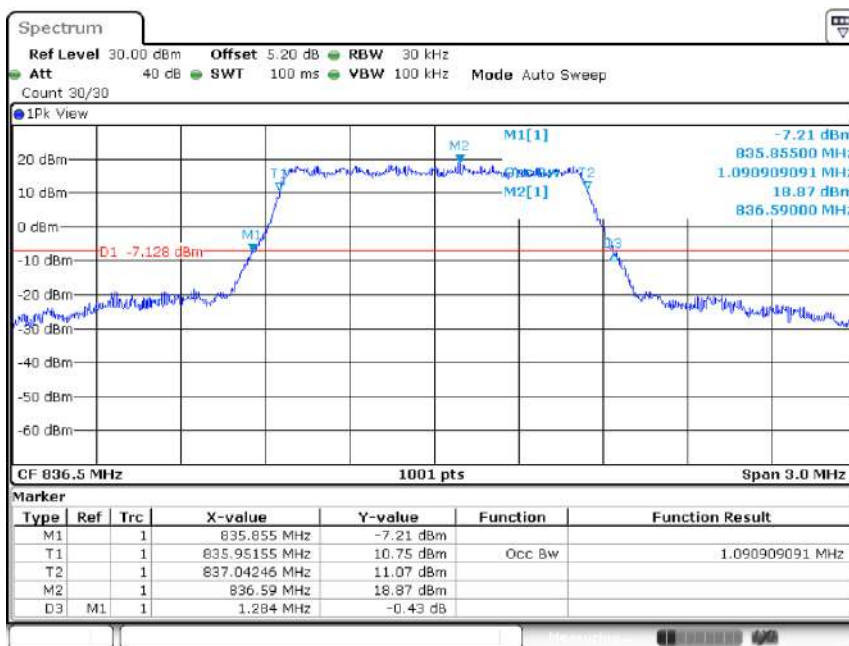
Band5	10MHz	64QAM	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.951	9.800	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.700	PASS

4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094

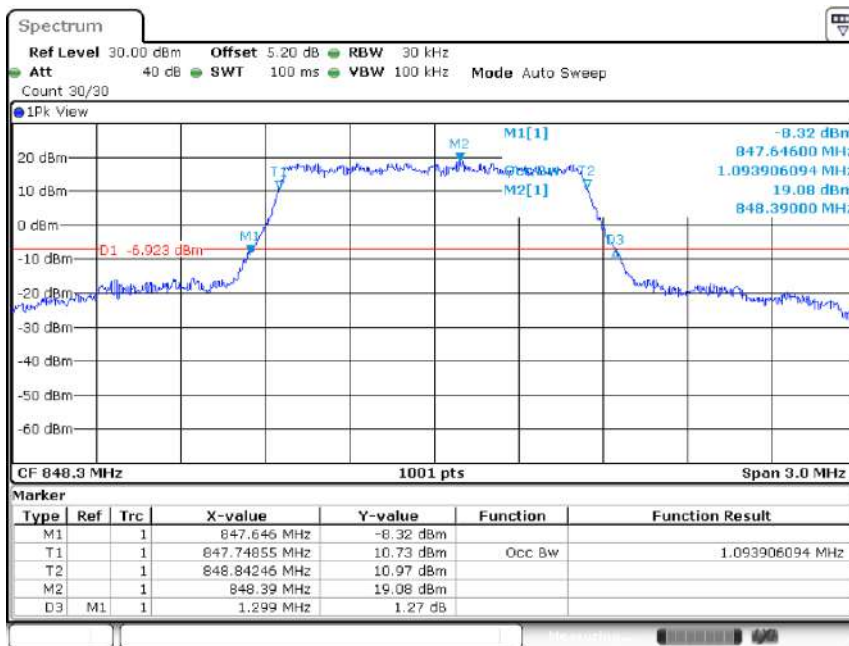


Band5-1.4MHz-QPSK-20525-6RB#0-1.091



Date: 14 AUG 2020 23:41:54

Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 14 AUG 2020 23:42:20



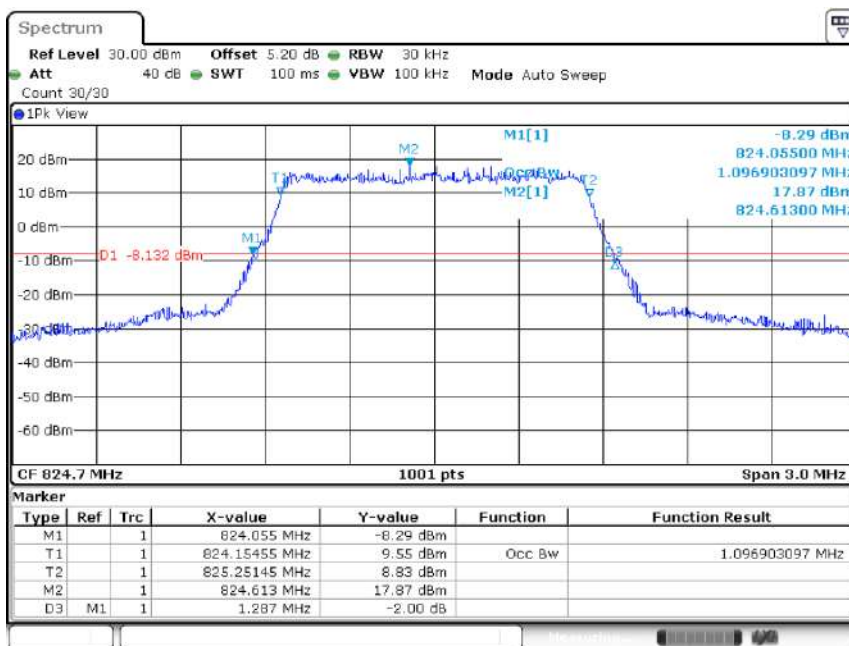
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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) 83071443, or email: CN.Doccheck@sgs.com

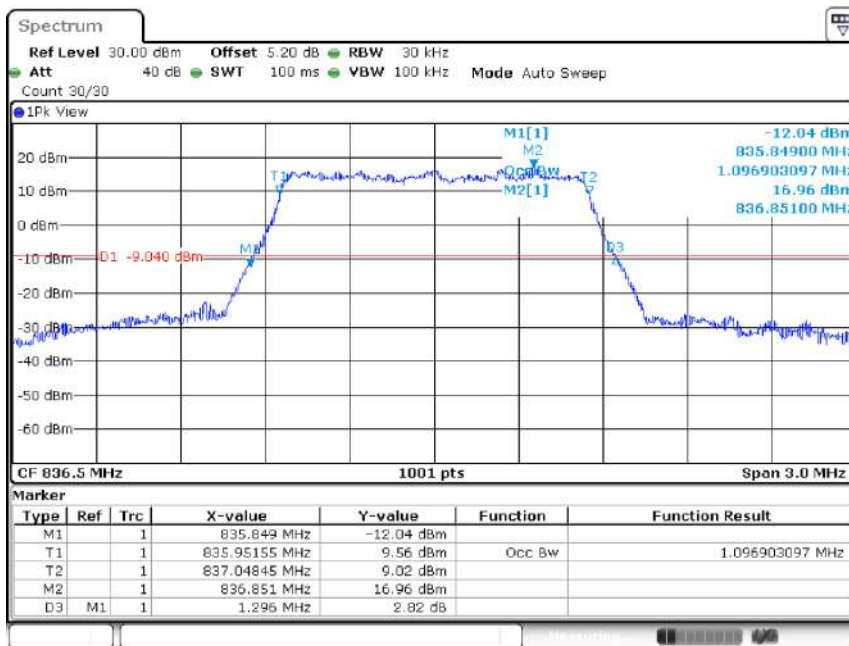
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-1.4MHz-64QAM-20407-6RB#0-1.097



Date: 15 AUG 2020 02:03:51

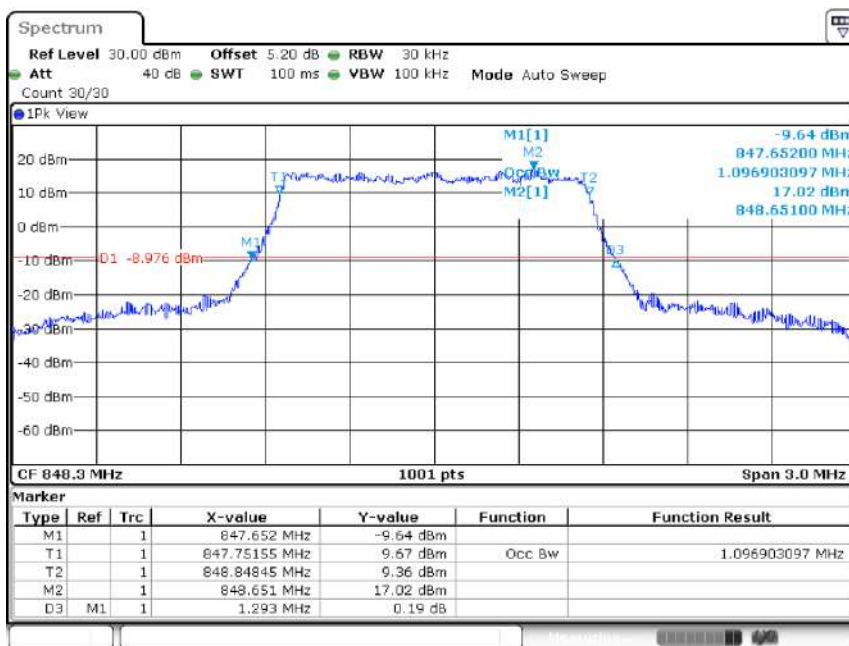
Band5-1.4MHz-64QAM-20525-6RB#0-1.097



Date: 15 AUG 2020 02:04:04

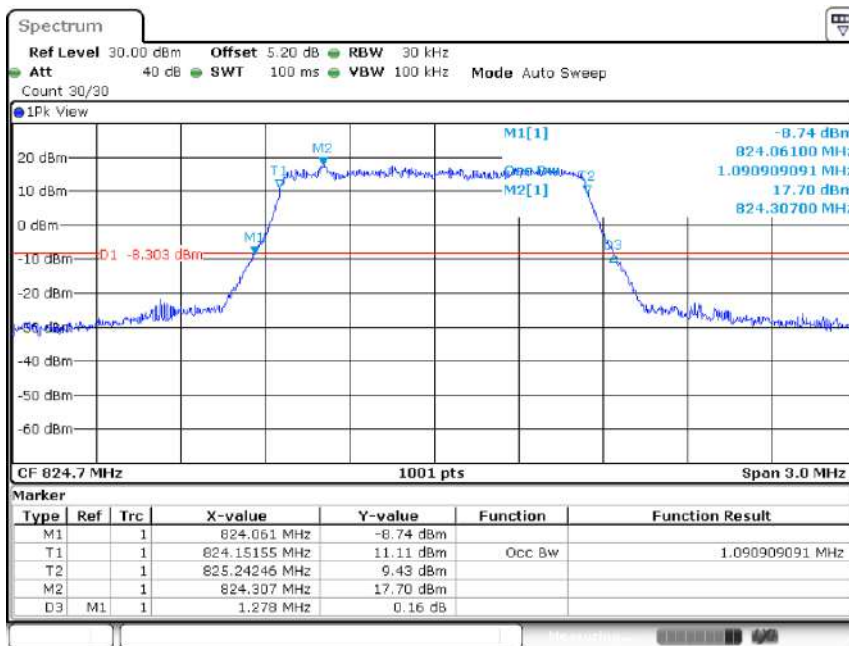


Band5-1.4MHz-64QAM-20643-6RB#0-1.097



Date: 15 AUG 2020 02:04:17

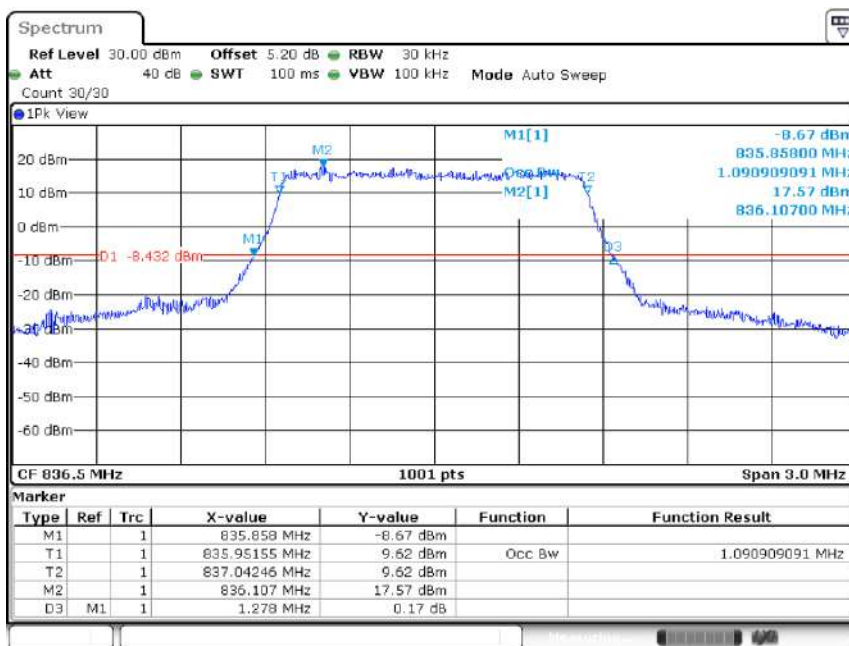
Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Date: 14 AUG 2020 23:41:41

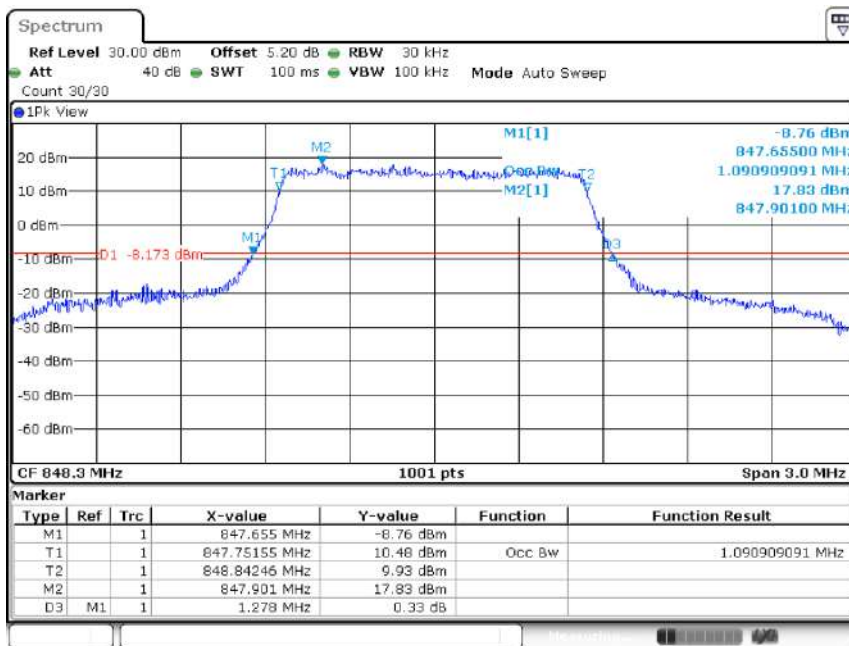


Band5-1.4MHz-16QAM-20525-6RB#0-1.091



Date: 14 AUG 2020 23:42:07

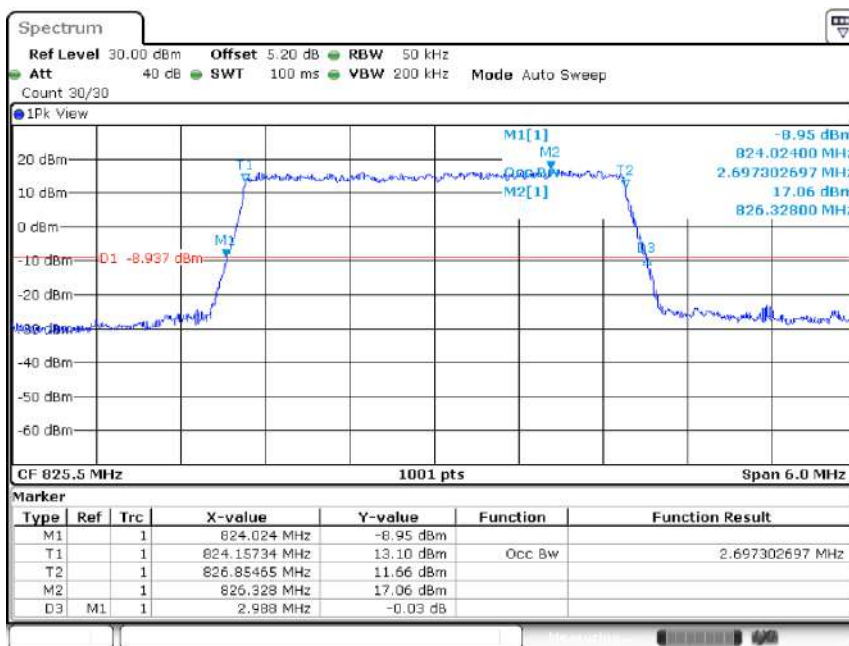
Band5-1.4MHz-16QAM-20643-6RB#0-1.091



Date: 14 AUG 2020 23:42:33

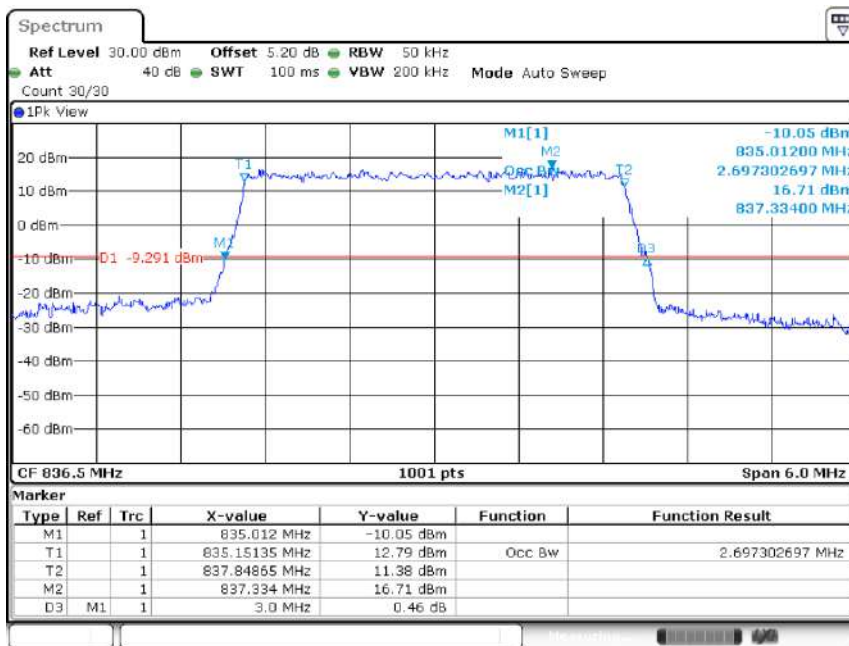


Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 14 AUG 2020 23:42:52

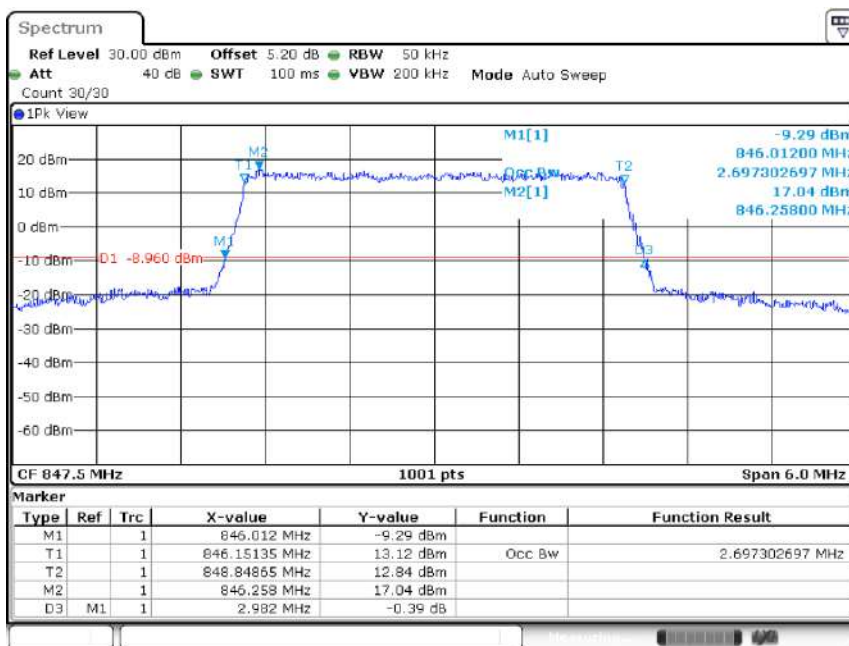
Band5-3MHz-QPSK-20525-15RB#0-2.697



Date: 14 AUG 2020 23:43:18

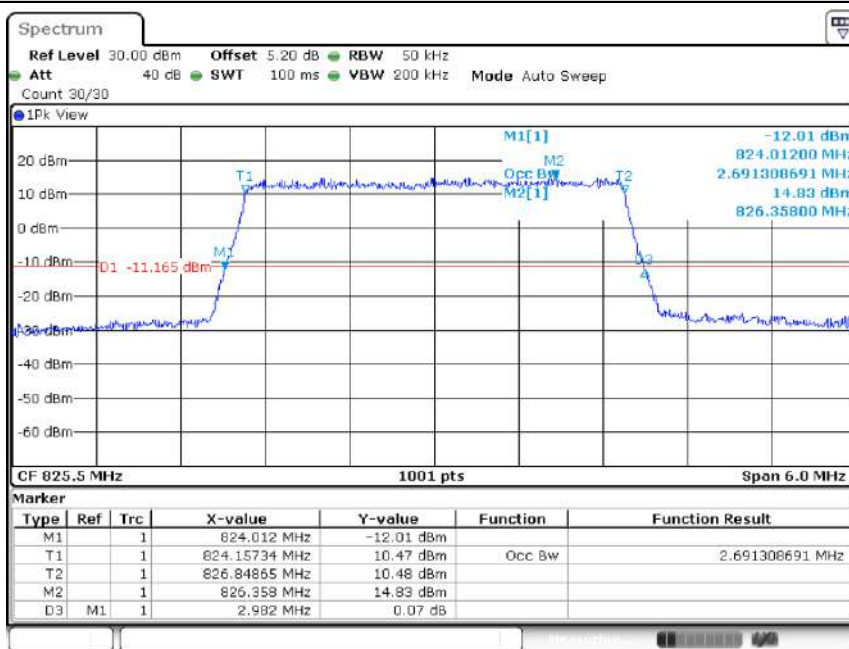


Band5-3MHz-QPSK-20635-15RB#0-2.697



Date: 14 AUG 2020 23:43:45

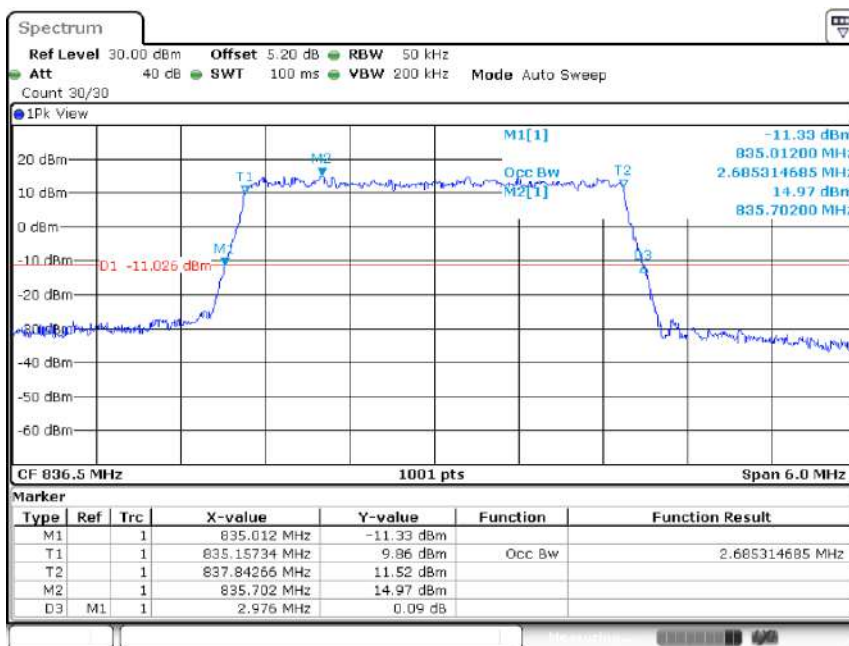
Band5-3MHz-64QAM-20415-15RB#0-2.691



Date: 15 AUG 2020 02:04:37

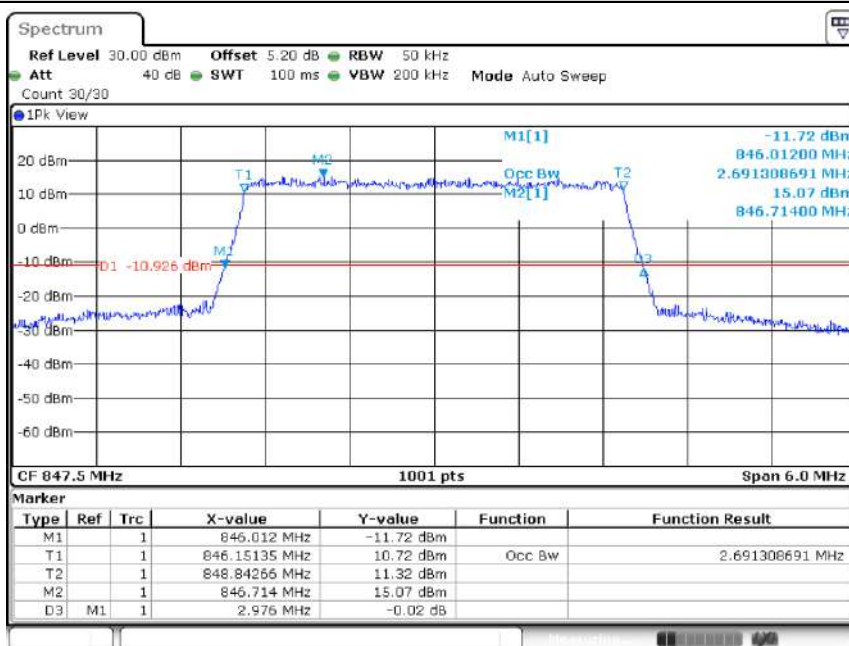


Band5-3MHz-64QAM-20525-15RB#0-2.685



Date: 15 AUG 2020 02:04:50

Band5-3MHz-64QAM-20635-15RB#0-2.691



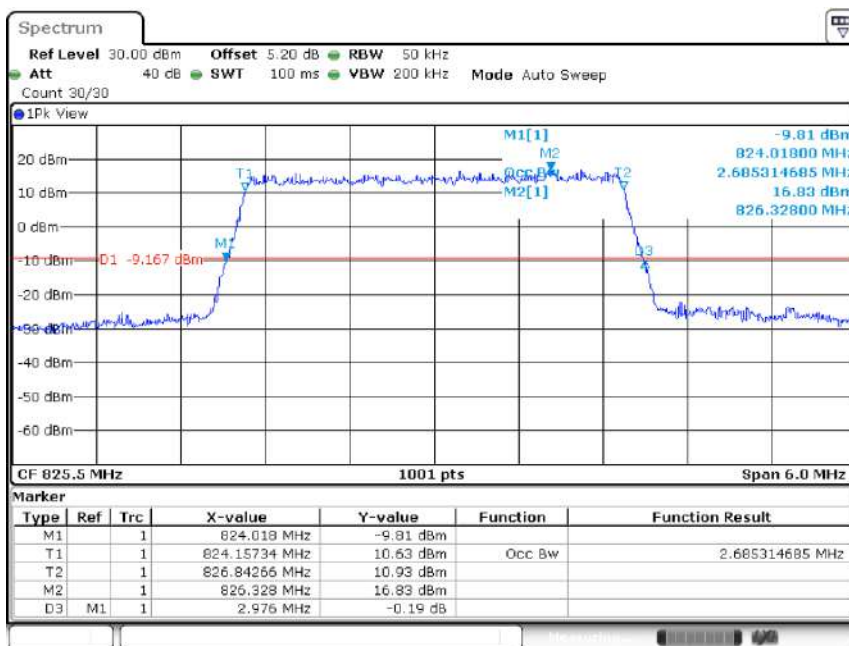
Date: 15 AUG 2020 02:05:03



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 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.

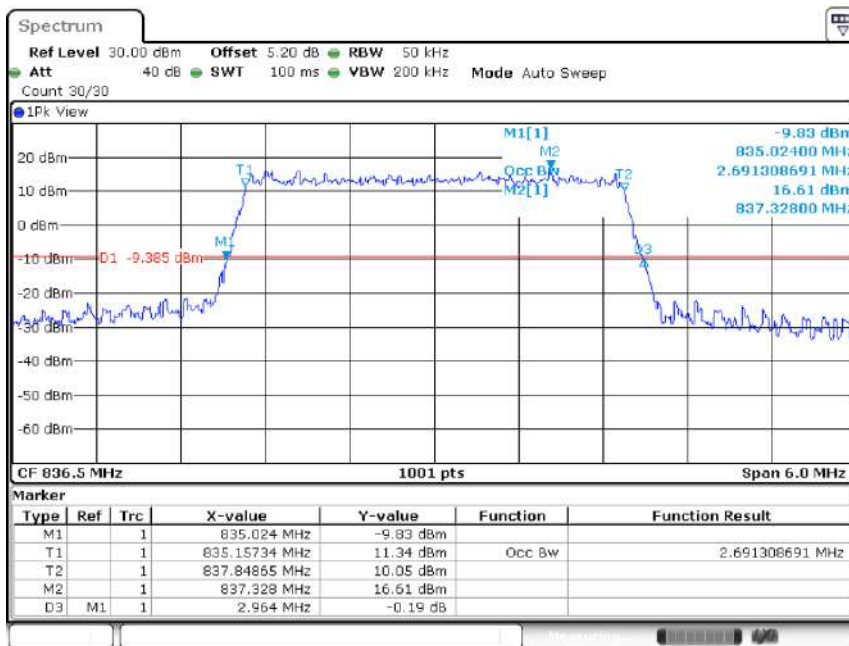
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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-16QAM-20415-15RB#0-2.685



Date: 14 AUG 2020 23:43:05

Band5-3MHz-16QAM-20525-15RB#0-2.691



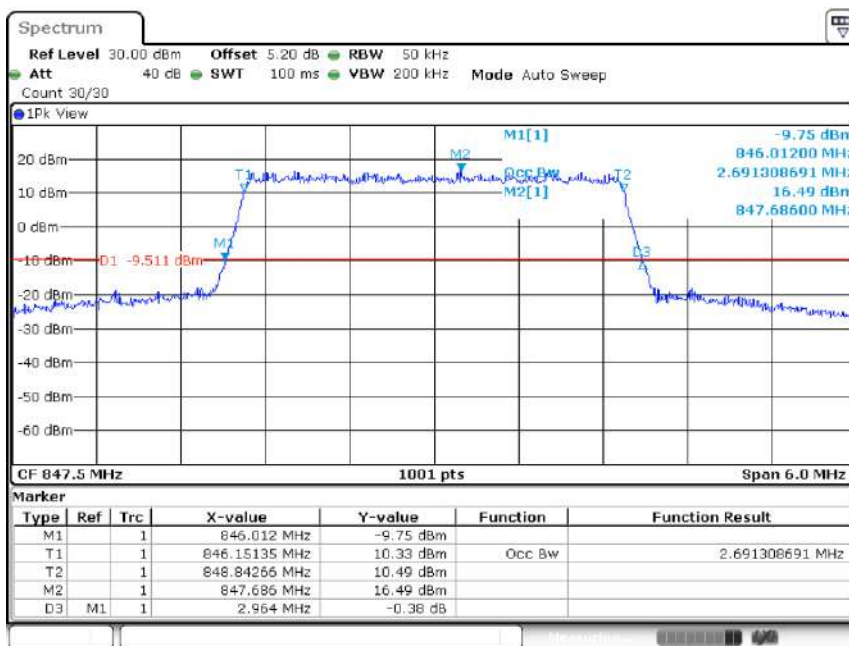
Date: 14 AUG 2020 23:43:32



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 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.

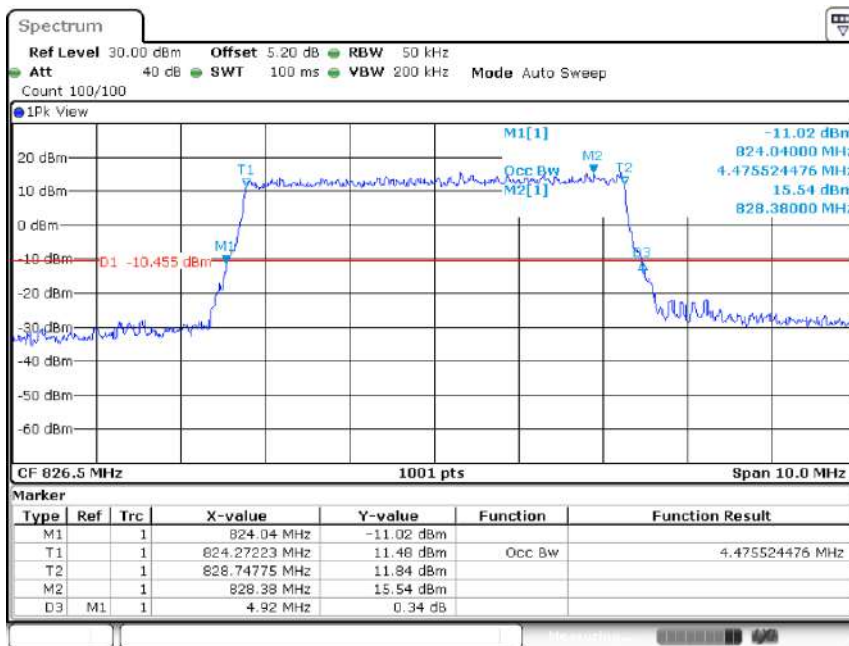
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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-16QAM-20635-15RB#0-2.691



Date: 14 AUG 2020 23:43:57

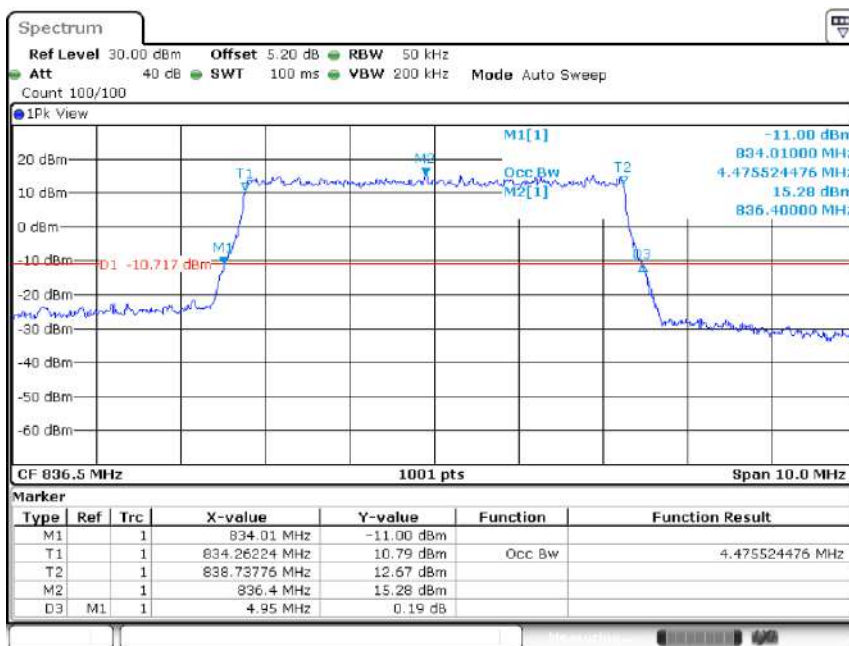
Band5-5MHz-QPSK-20425-25RB#0-4.476



Date: 14 AUG 2020 23:44:23

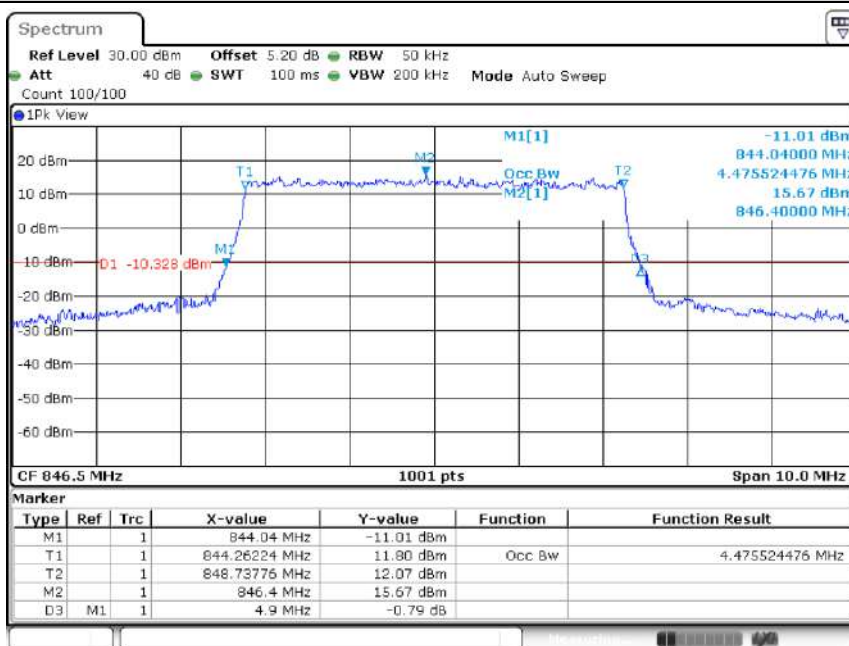


Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 14 AUG 2020 23:45:03

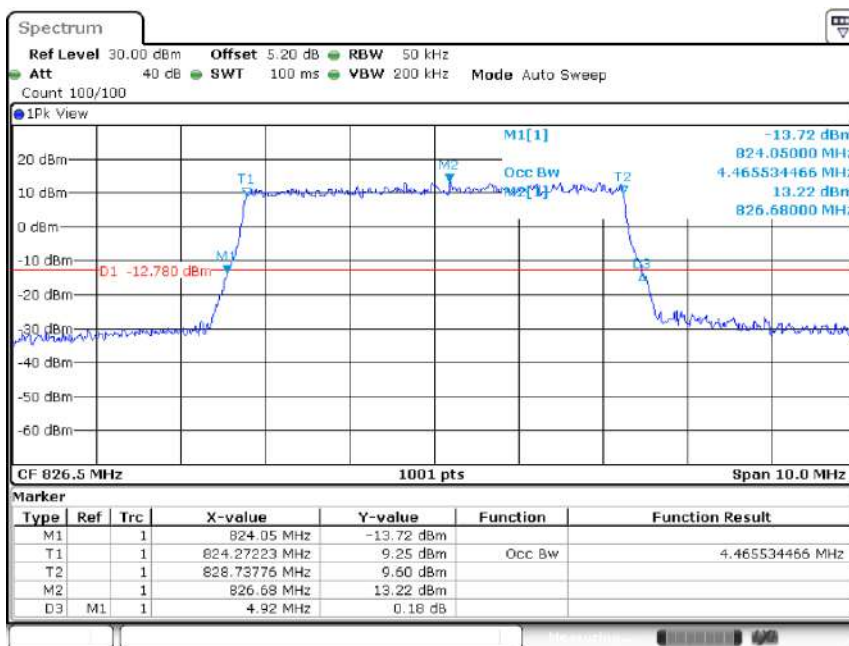
Band5-5MHz-QPSK-20625-25RB#0-4.476



Date: 14 AUG 2020 23:45:43

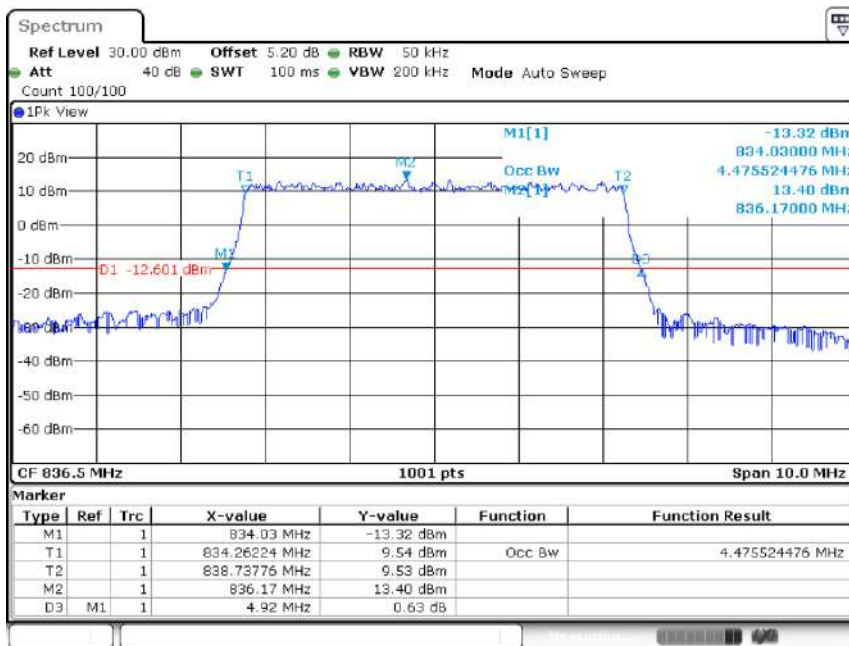


Band5-5MHz-64QAM-20425-25RB#0-4.466



Date: 15 AUG 2020 02:05:29

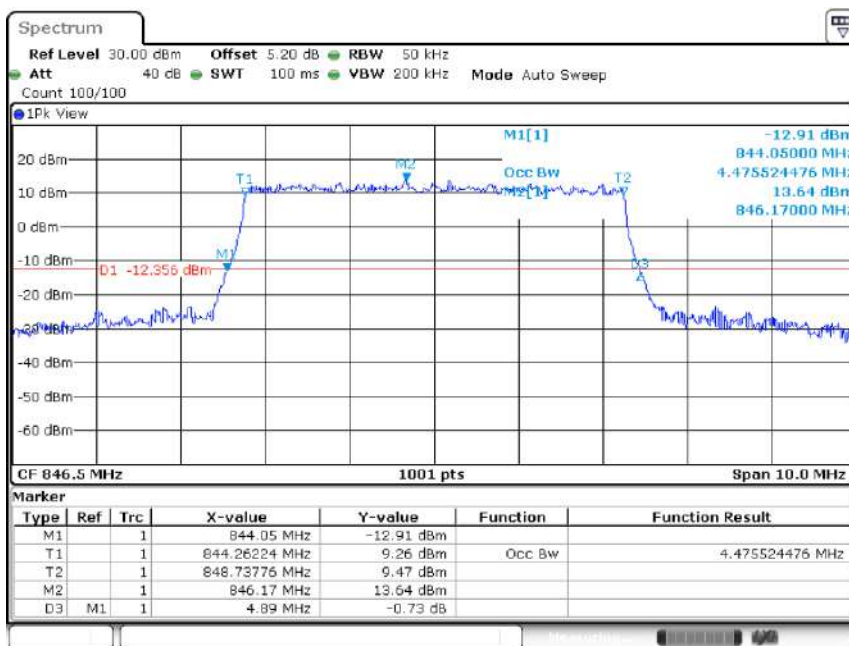
Band5-5MHz-64QAM-20525-25RB#0-4.476



Date: 15 AUG 2020 02:05:50

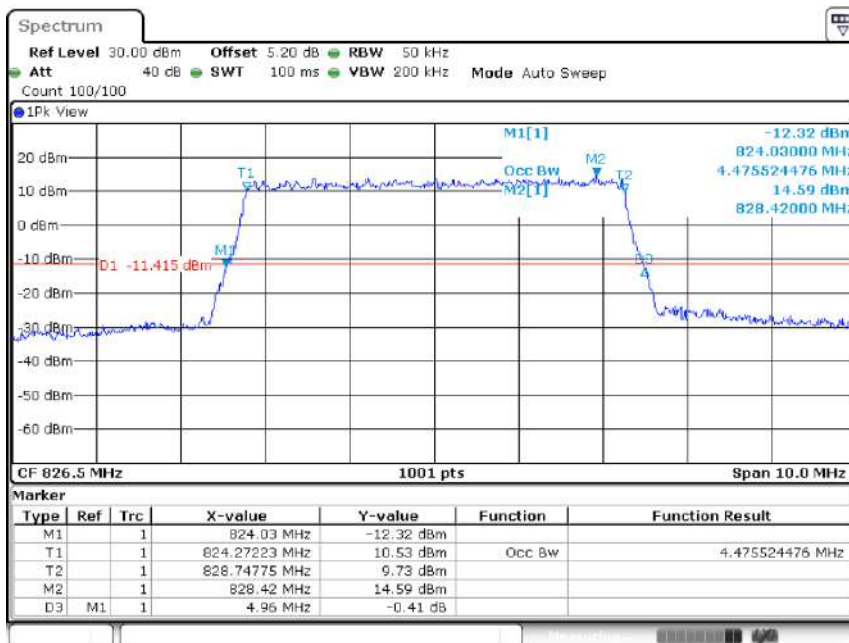


Band5-5MHz-64QAM-20625-25RB#0-4.476



Date: 15 AUG 2020 02:06:10

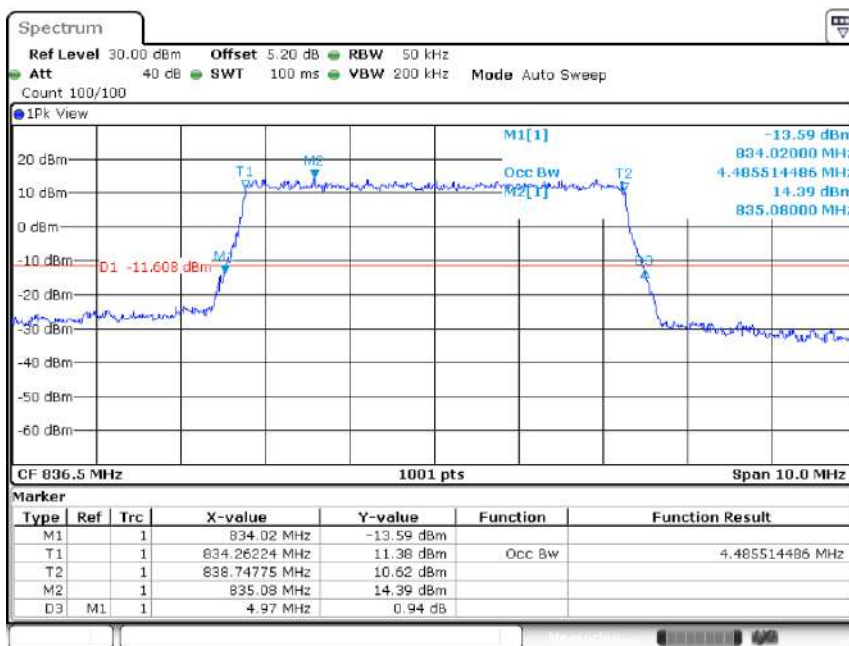
Band5-5MHz-16QAM-20425-25RB#0-4.476



Date: 14 AUG 2020 23:44:43

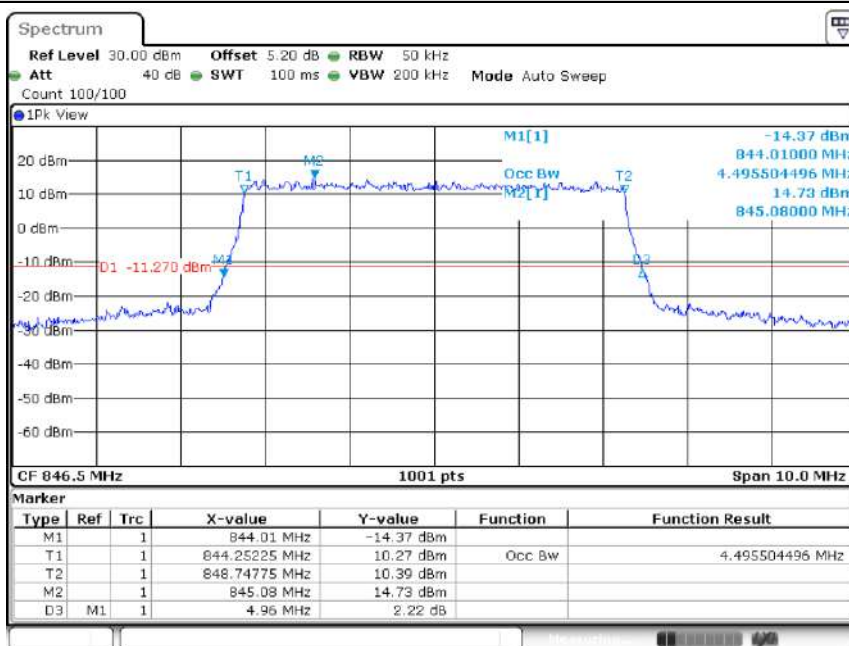


Band5-5MHz-16QAM-20525-25RB#0-4.486



Date: 14 AUG 2020 23:45:23

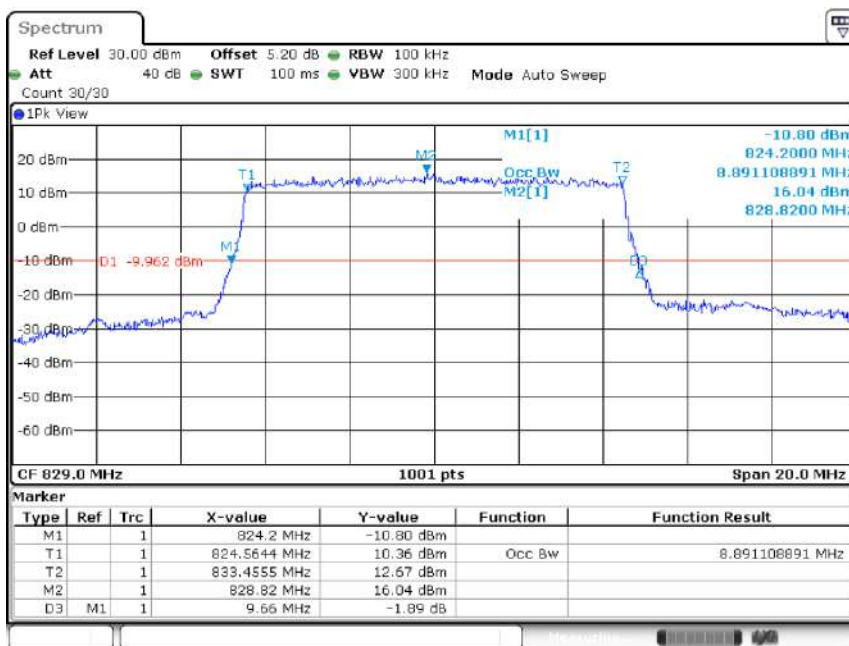
Band5-5MHz-16QAM-20625-25RB#0-4.496



Date: 14 AUG 2020 23:46:02

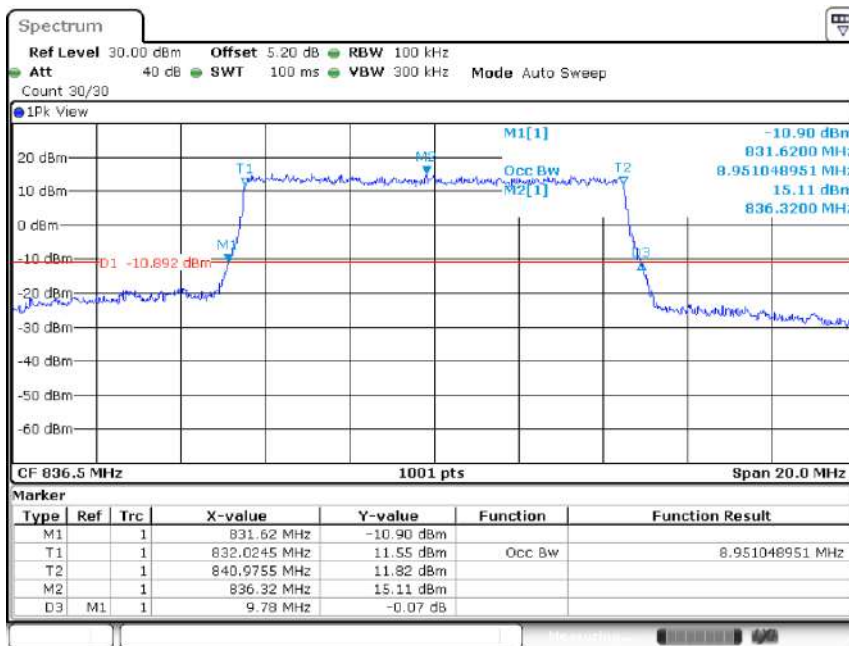


Band5-10MHz-QPSK-20450-50RB#0-8.891



Date: 14 AUG 2020 23:46:21

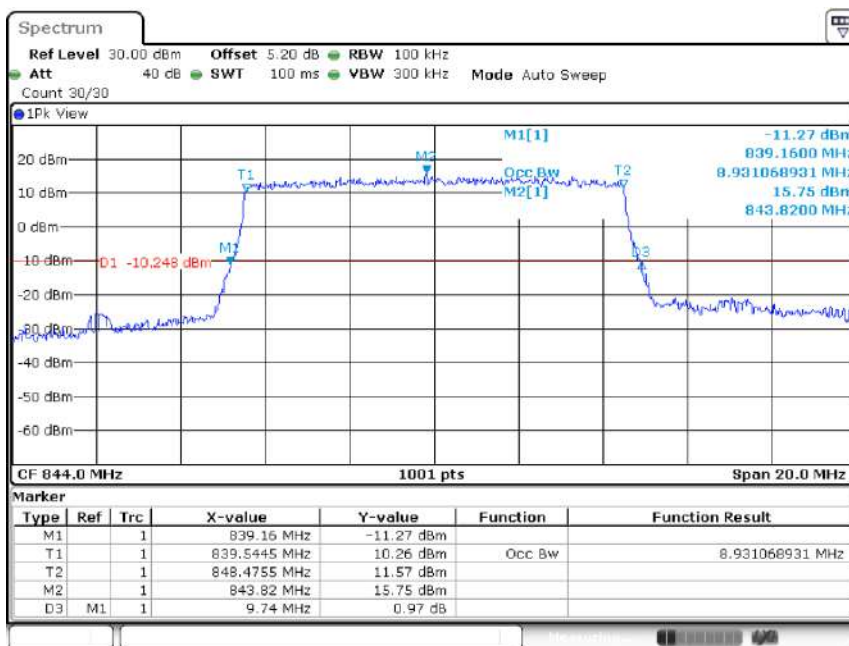
Band5-10MHz-QPSK-20525-50RB#0-8.951



Date: 14 AUG 2020 23:46:47

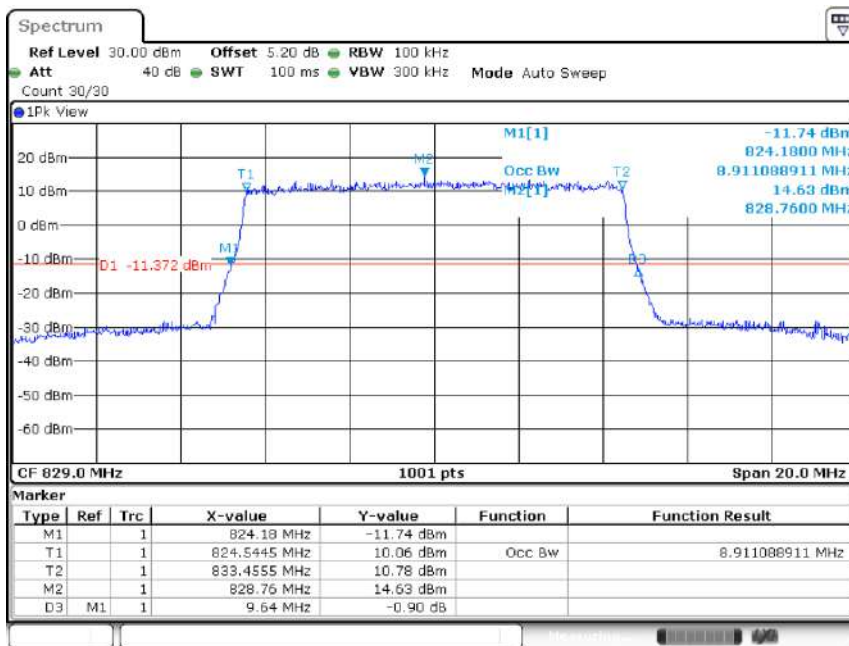


Band5-10MHz-QPSK-20600-50RB#0-8.931



Date: 14 AUG 2020 23:47:13

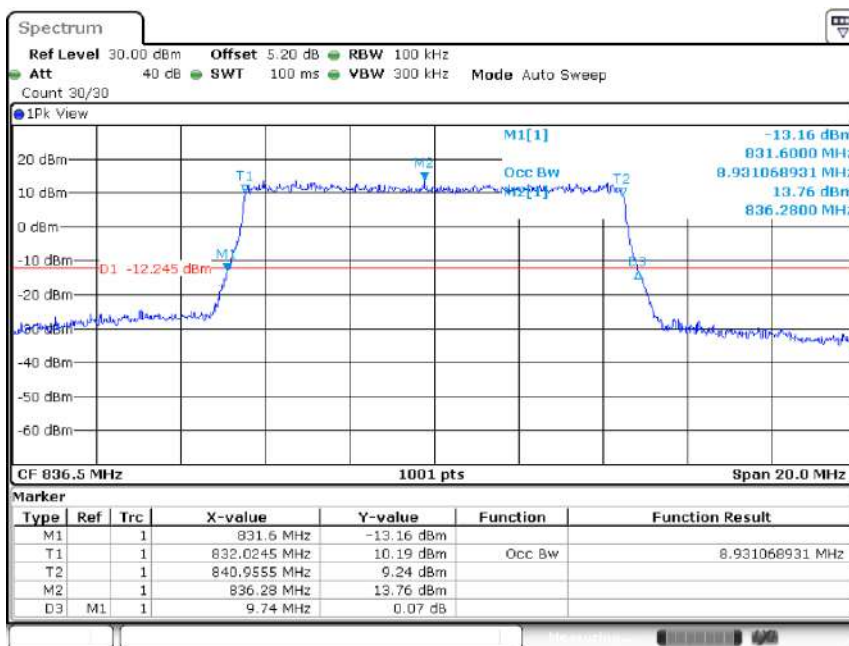
Band5-10MHz-64QAM-20450-50RB#0-8.911



Date: 15 AUG 2020 02:06:29

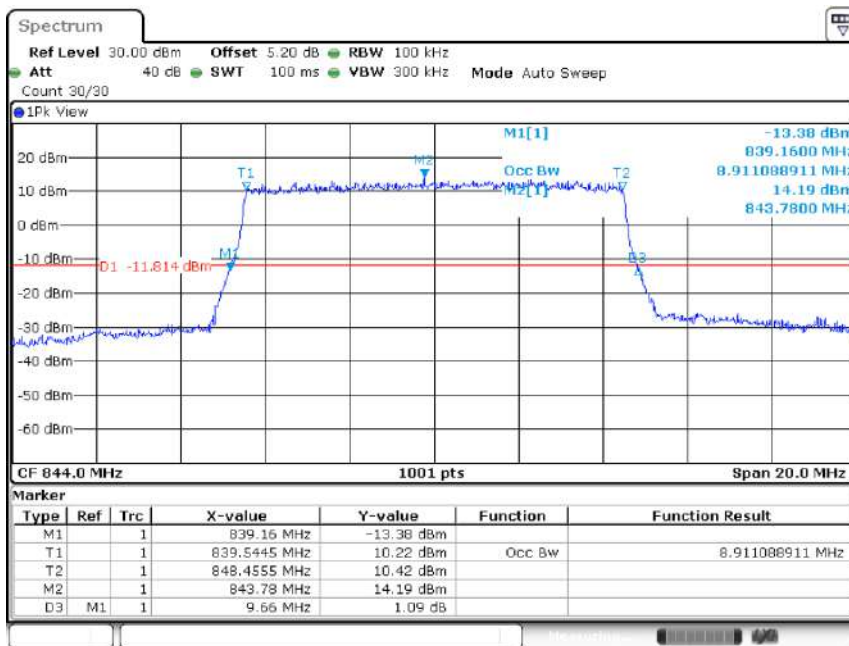


Band5-10MHz-64QAM-20525-50RB#0-8.931



Date: 15 AUG 2020 02:06:43

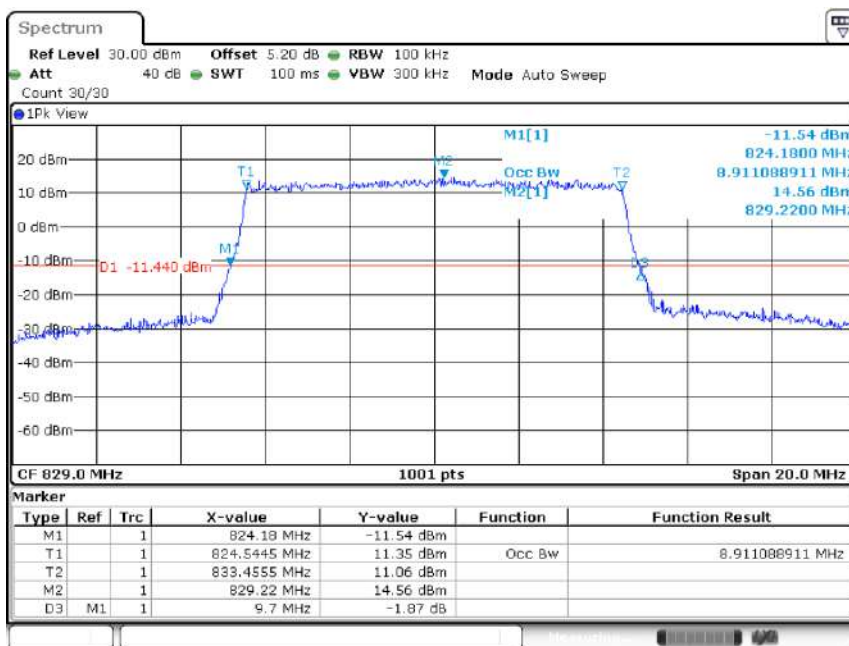
Band5-10MHz-64QAM-20600-50RB#0-8.911



Date: 15 AUG 2020 02:06:56

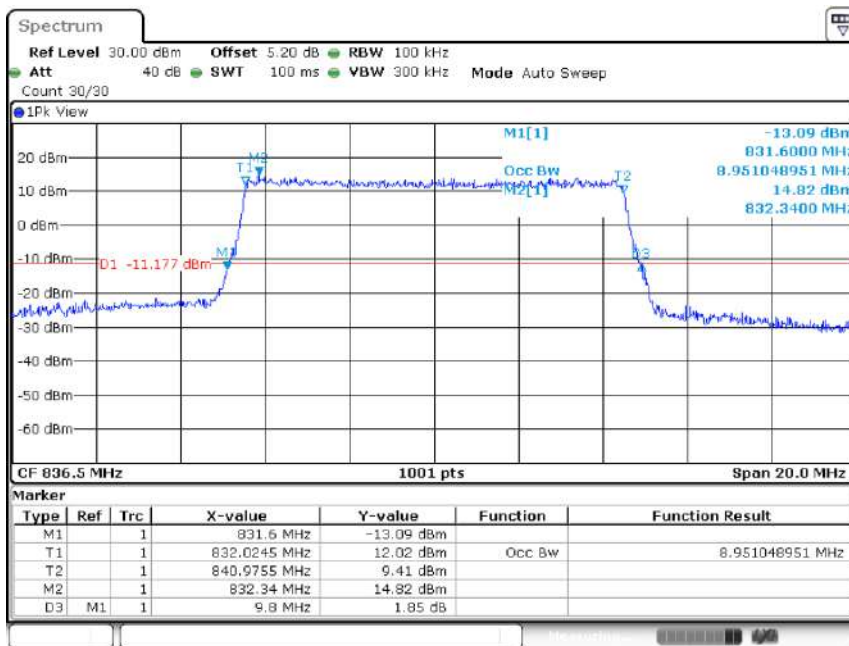


Band5-10MHz-16QAM-20450-50RB#0-8.911



Date: 14 AUG 2020 23:46:34

Band5-10MHz-16QAM-20525-50RB#0-8.951

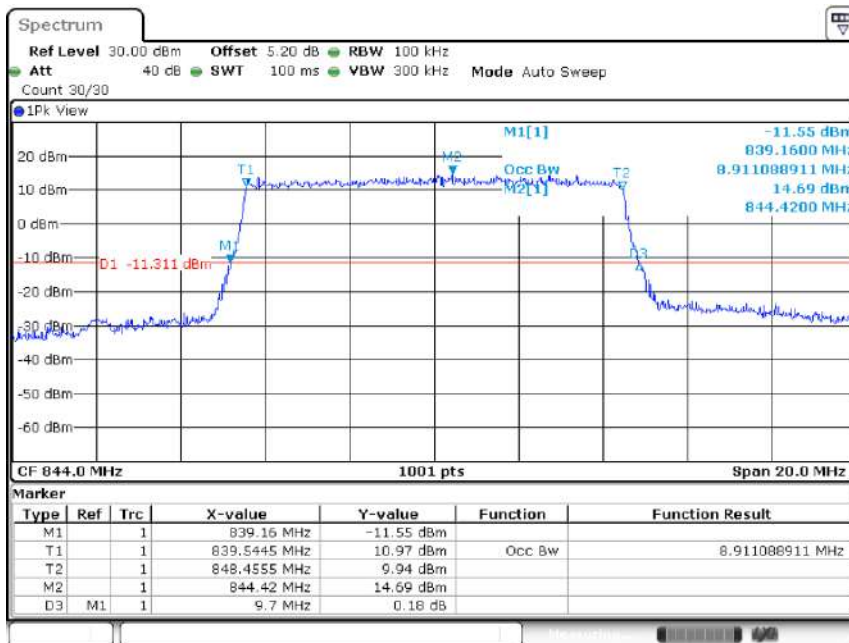


Date: 14 AUG 2020 23:47:00





Band5-10MHz-16QAM-20600-50RB#0-8.911



Date: 14 AUG 2020 23:47:26



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

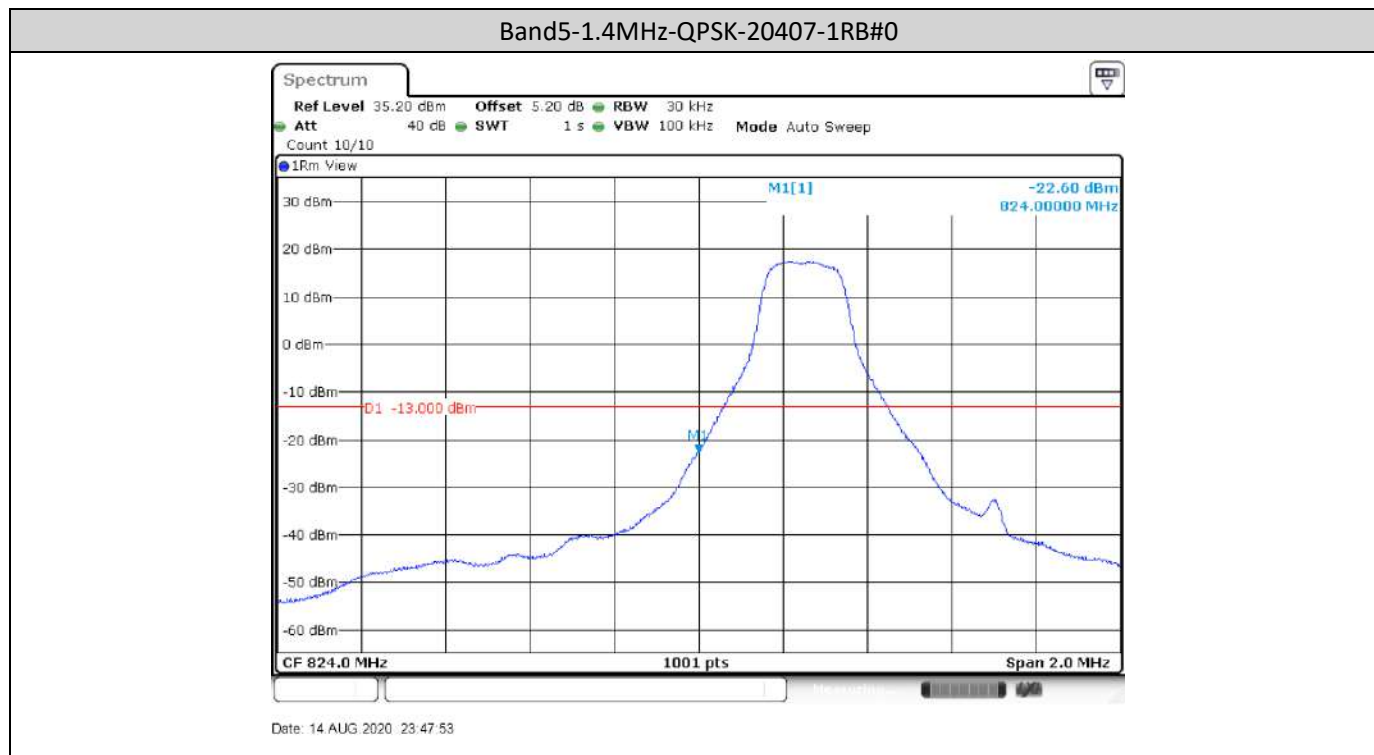
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 83071443, or email: CN.Doccheck@sgs.com

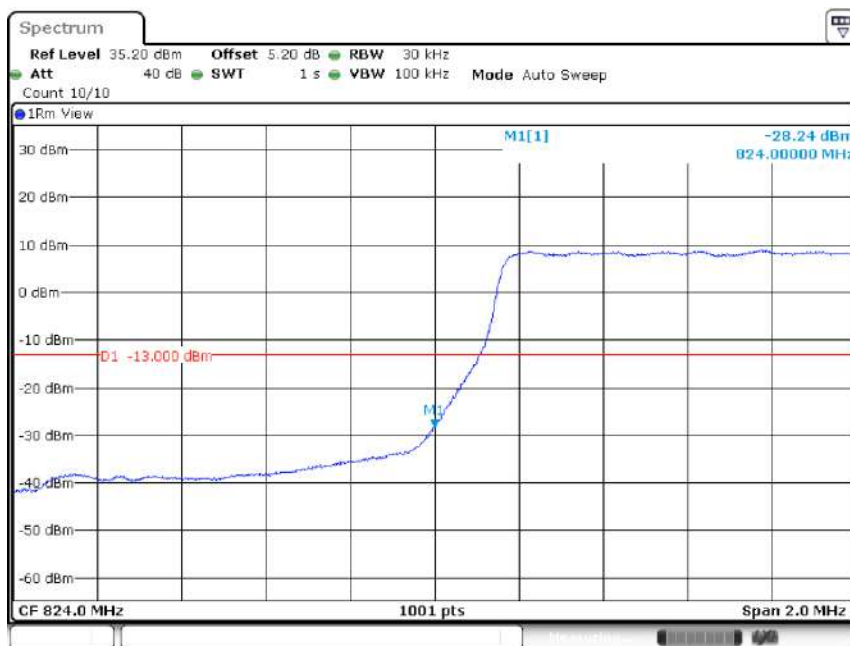
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5. Band Edge Compliance

5.1. Test Plots



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



Date: 14 AUG 2020 23:48:35

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



Date: 14 AUG 2020 23:49:22



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-QPSK-20643-6RB#0



Date: 14 AUG 2020 23:50:03

Band5-1.4MHz-64QAM-20407-1RB#0



Date: 15 AUG 2020 02:07:23



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

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

Band5-1.4MHz-64QAM-20407-6RB#0



Date: 15 AUG 2020 02:07:44

Band5-1.4MHz-64QAM-20643-1RB#5



Date: 15 AUG 2020 02:08:11



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-64QAM-20643-6RB#0



Date: 15 AUG 2020 02:08:31

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



Date: 14 AUG 2020 23:48:14



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 (SGS-CSTC) 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

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



Date: 14 AUG 2020 23:48:56

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



Date: 14 AUG 2020 23:49:42



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



Date: 14 AUG 2020 23:50:24

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



Date: 14 AUG 2020 23:50:51



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

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

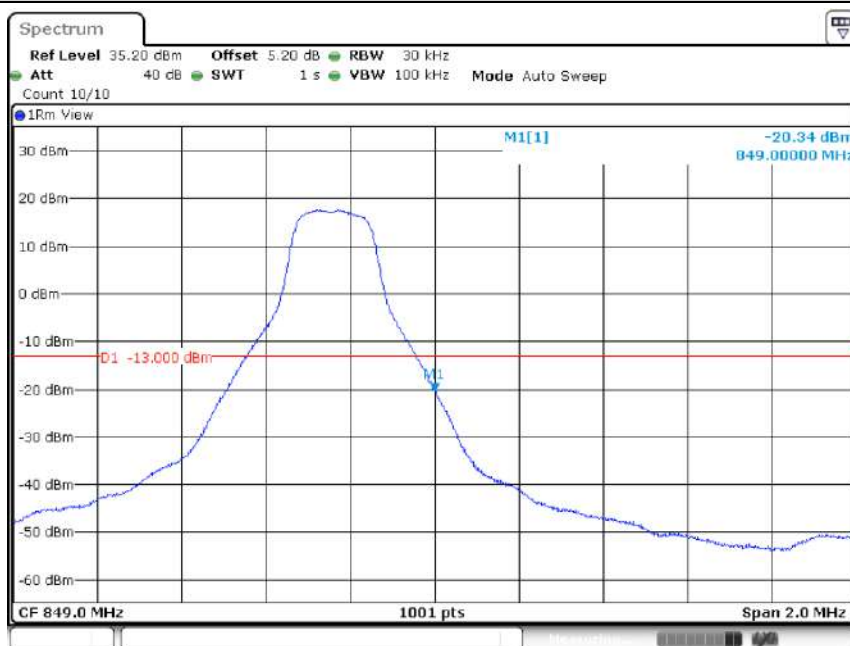
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 14 AUG 2020 23:51:32

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



Date: 14 AUG 2020 23:52:19



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 (SGS-CSTC) Laboratory

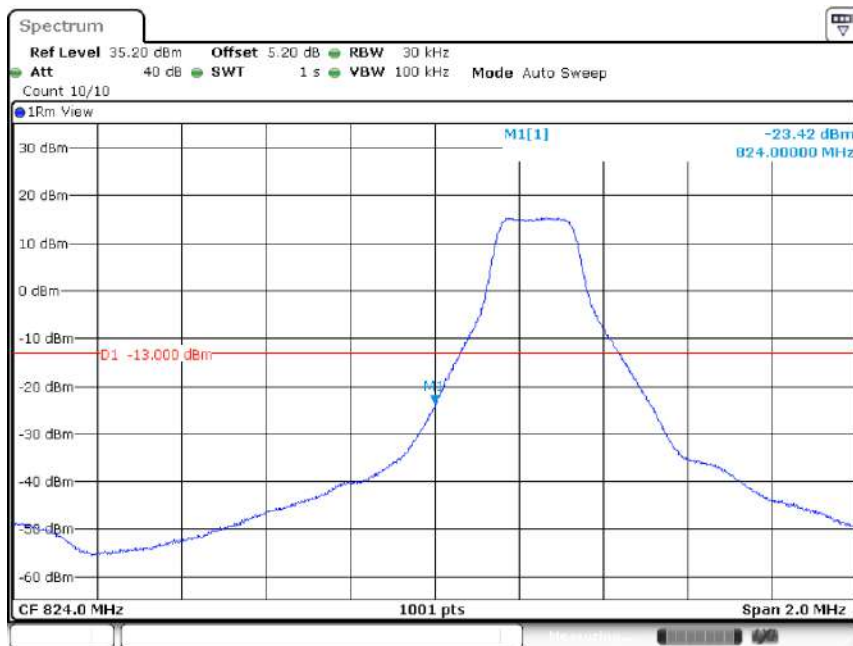
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 14 AUG 2020 23:53:00

Band5-3MHz-64QAM-20415-1RB#0



Date: 15 AUG 2020 02:09:00



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

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

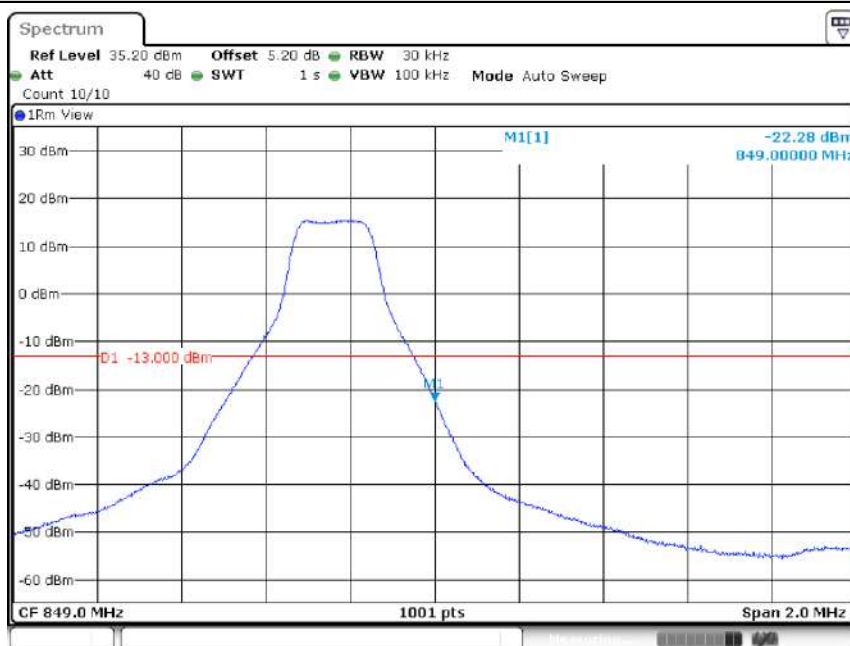


Band5-3MHz-64QAM-20415-15RB#0



Date: 15 AUG 2020 02:09:20

Band5-3MHz-64QAM-20635-1RB#14



Date: 15 AUG 2020 02:09:47



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-64QAM-20635-15RB#0



Date: 15 AUG 2020 02:10:07

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



Date: 14 AUG 2020 23:51:12



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-20415-15RB#0



Date: 14 AUG 2020 23:51:53

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



Date: 14 AUG 2020 23:52:39



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

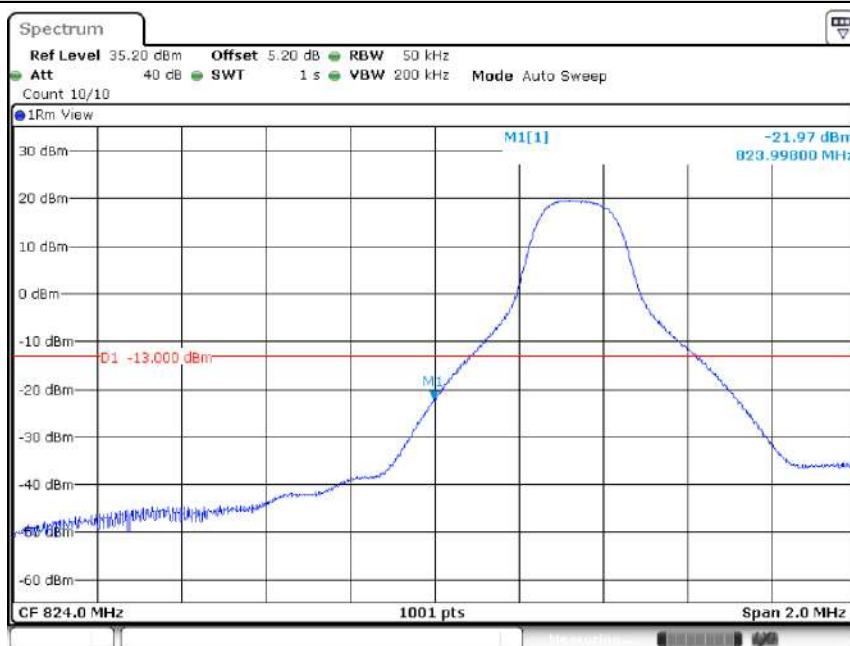
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 14 AUG 2020 23:53:21

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



Date: 14 AUG 2020 23:53:48



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

Member of the SGS Group (SGS SA)

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



Date: 14 AUG 2020 23:54:29

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



Date: 14 AUG 2020 23:55:15



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

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-20625-25RB#0



Date: 14 AUG 2020 23:55:56

Band5-5MHz-64QAM-20425-1RB#0



Date: 15 AUG 2020 02:10:35



Band5-5MHz-64QAM-20425-25RB#0



Date: 15 AUG 2020 02:10:56

Band5-5MHz-64QAM-20625-1RB#24



Date: 15 AUG 2020 02:11:23

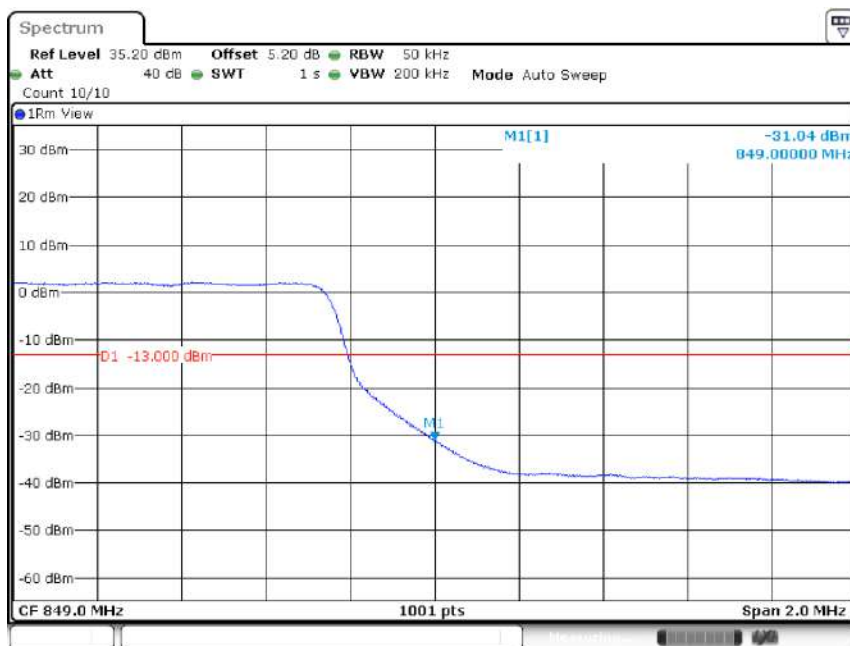


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

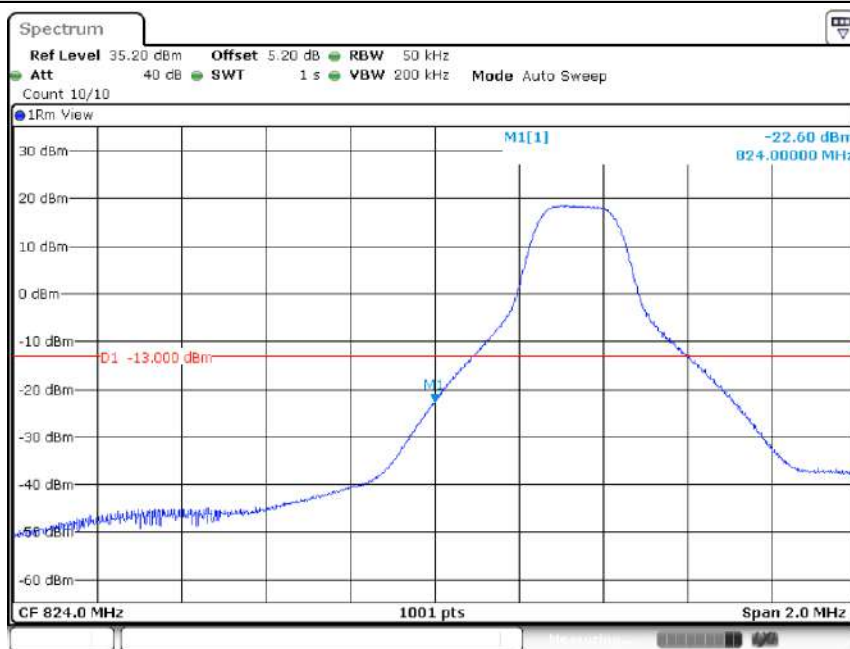
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-5MHz-64QAM-20625-25RB#0



Date: 15 AUG 2020 02:11:43

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



Date: 14 AUG 2020 23:54:08



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

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



Date: 14 AUG 2020 23:54:50

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



Date: 14 AUG 2020 23:55:36



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

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



Date: 14 AUG 2020 23:56:18

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



Date: 14 AUG 2020 23:56:44



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 (SGS-CSTC) 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-QPSK-20450-50RB#0



Date: 14 AUG 2020 23:57:26

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



Date: 14 AUG 2020 23:58:13



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



Date: 14 AUG 2020 23:58:54

Band5-10MHz-64QAM-20450-1RB#0



Date: 15 AUG 2020 02:12:11



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 (SGS-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

Member of the SGS Group (SGS SA)

Band5-10MHz-64QAM-20450-50RB#0



Date: 15 AUG 2020 02:12:32

Band5-10MHz-64QAM-20600-1RB#49



Date: 15 AUG 2020 02:12:58





Band5-10MHz-64QAM-20600-50RB#0



Date: 15 AUG 2020 02:13:18

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



Date: 14 AUG 2020 23:57:05



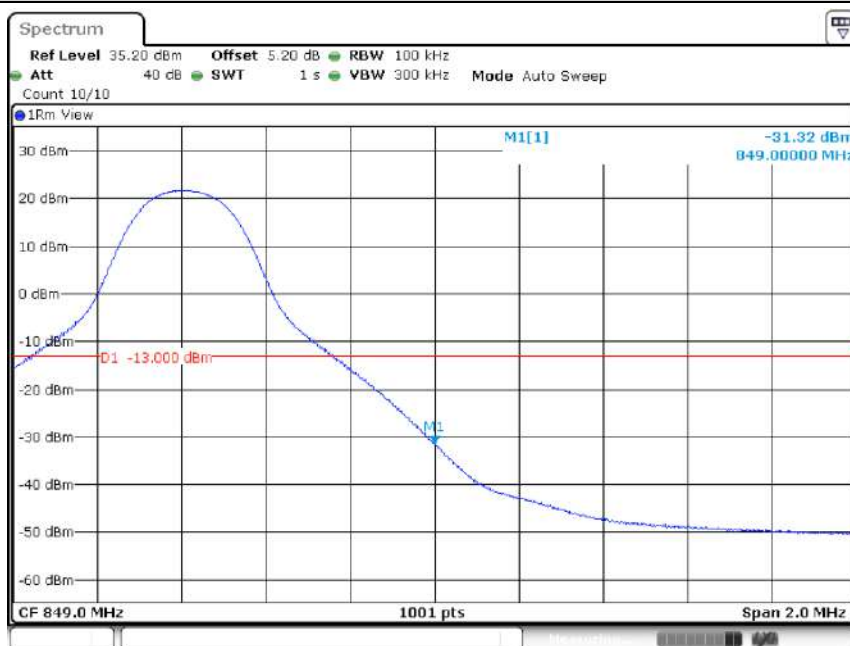
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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-20450-50RB#0



Date: 14 AUG 2020 23:57:47

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



Date: 14 AUG 2020 23:58:33



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-20600-50RB#0



Date: 14 AUG 2020 23:59:14



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

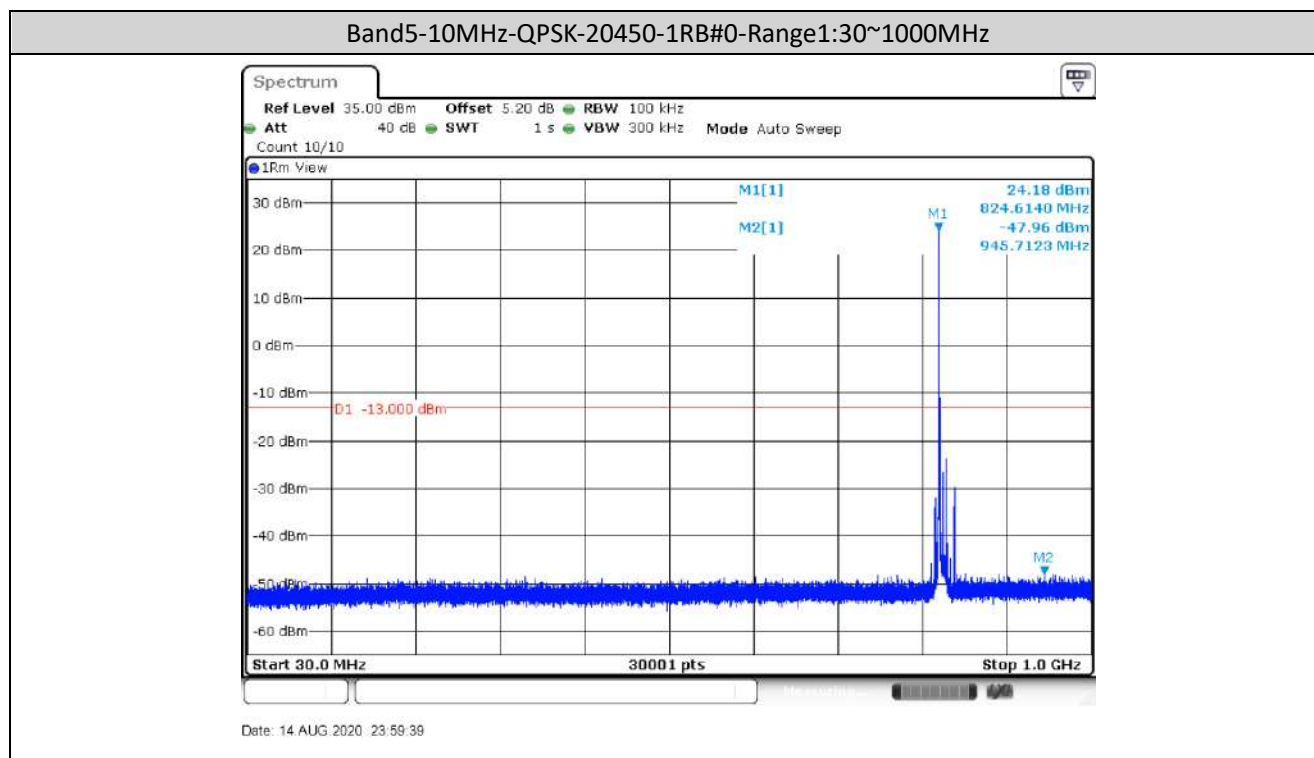
t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

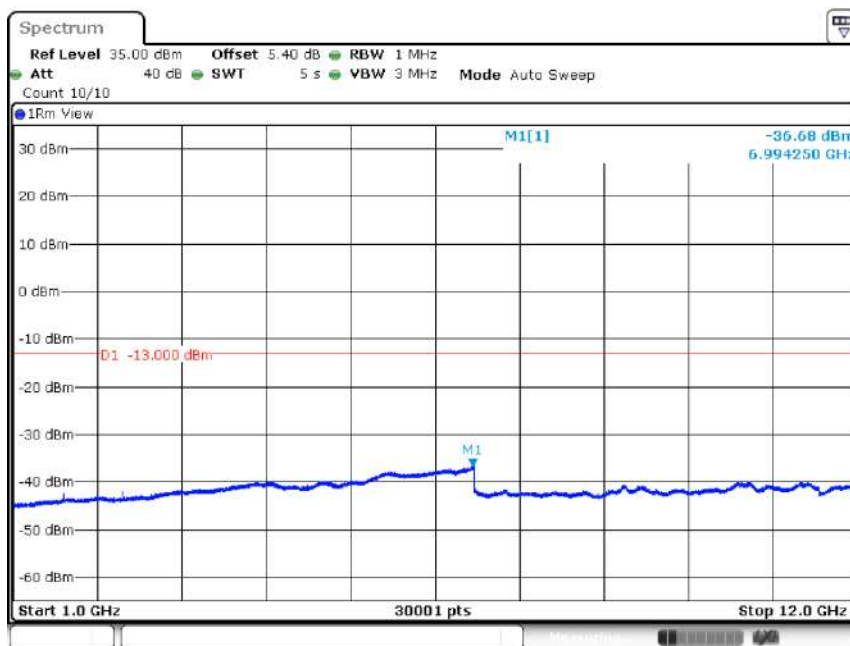
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

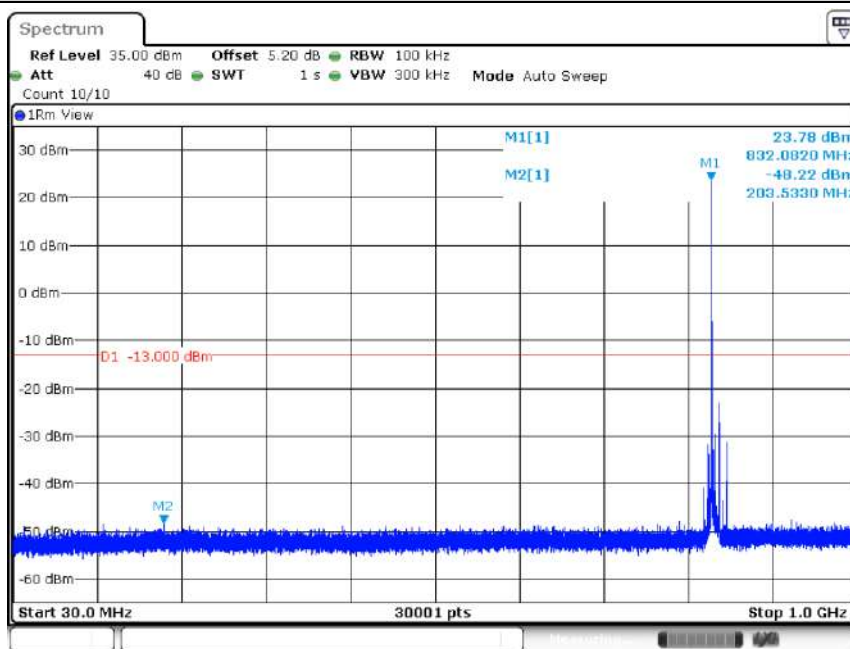
www.sgsgroup.com.cn
sgs.china@sgs.com

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



Date: 15 AUG 2020 00:00:46

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



Date: 15 AUG 2020 00:02:34



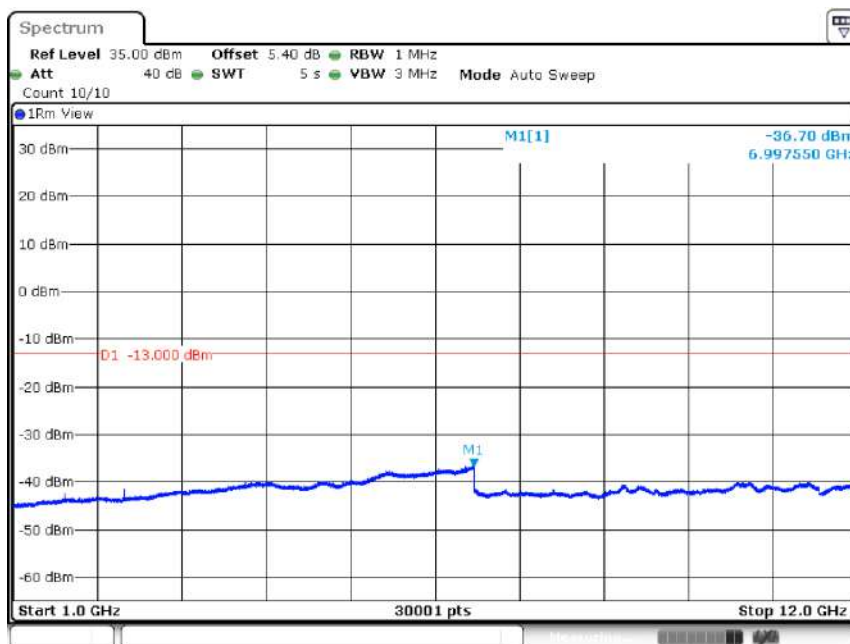
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

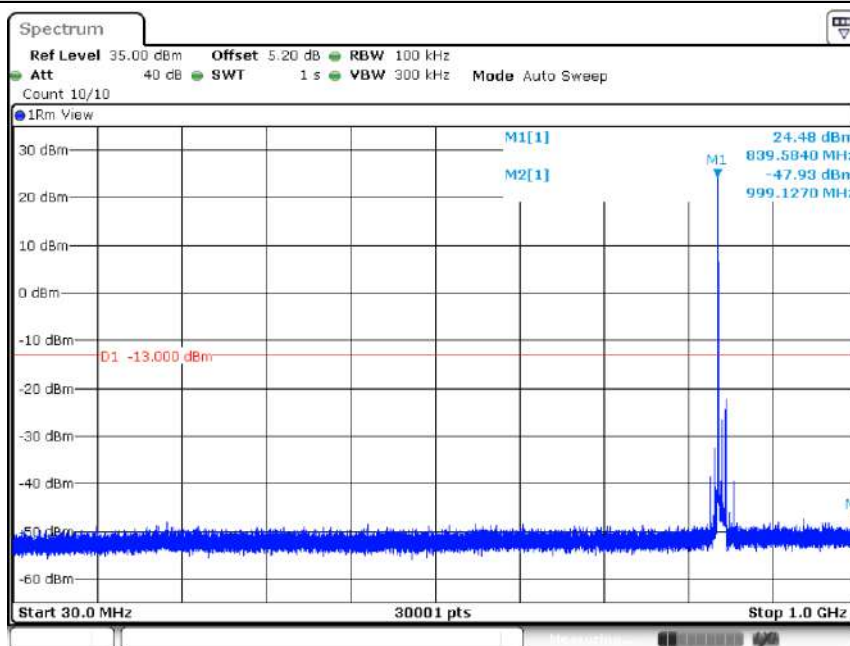
Member of the SGS Group (SGS SA)

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



Date: 15 AUG 2020 00:03:41

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



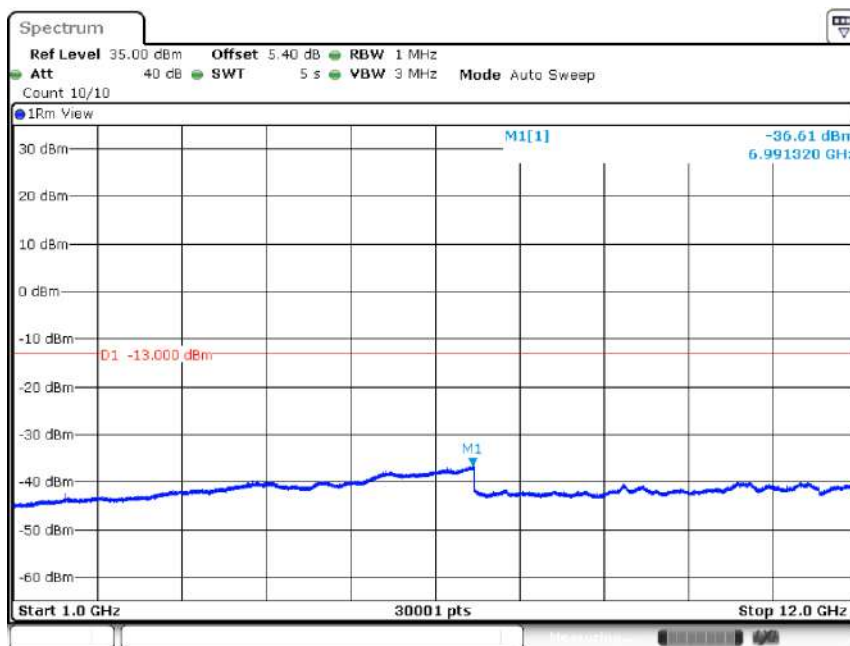
Date: 15 AUG 2020 00:05:29



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.

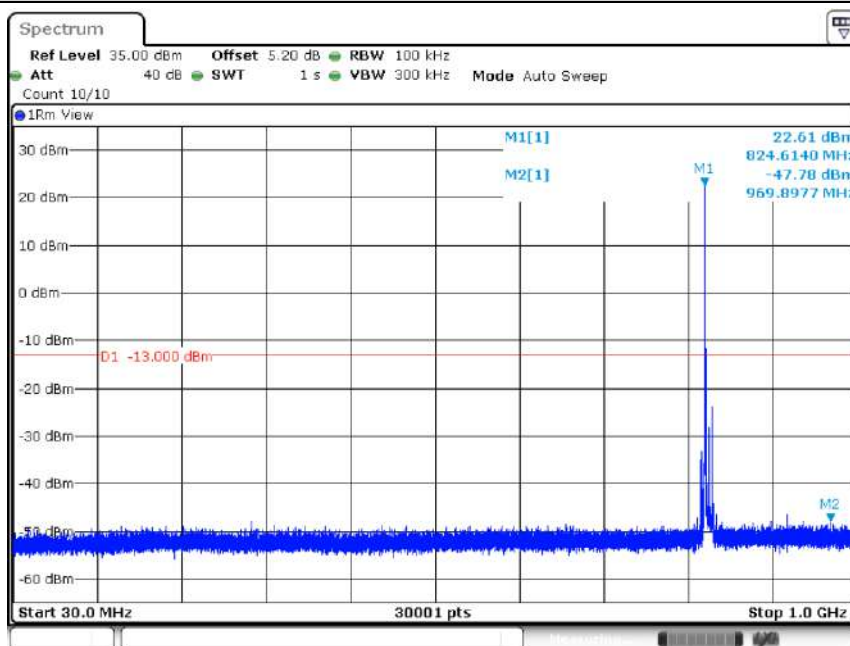
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-20600-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 00:06:36

Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz



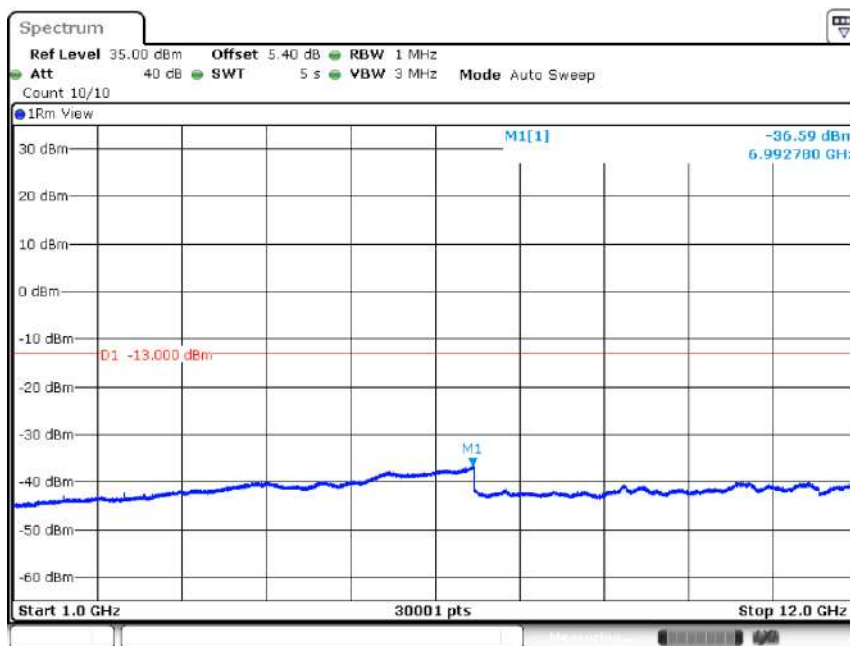
Date: 15 AUG 2020 02:13:44



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

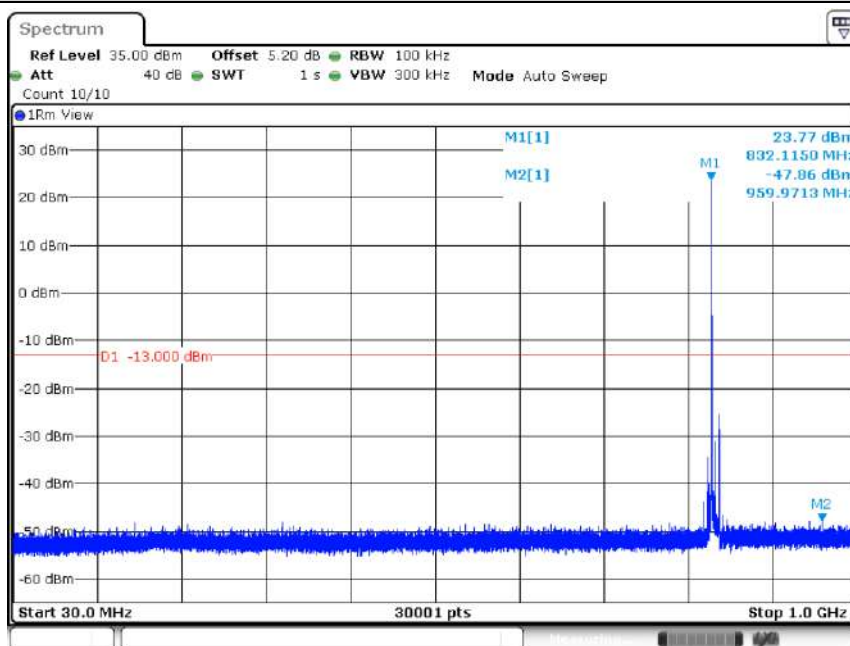
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 02:14:51

Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 02:15:12



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.

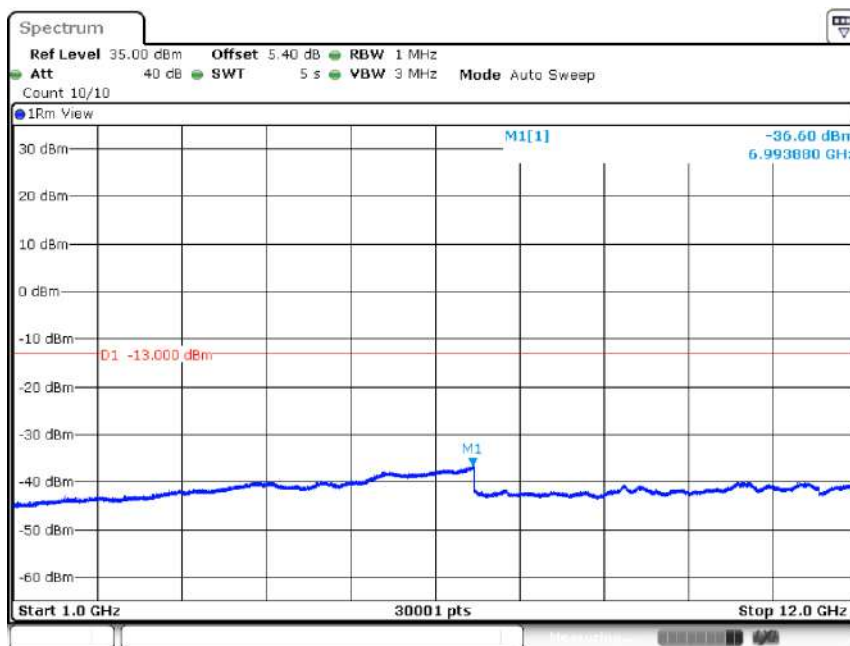
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

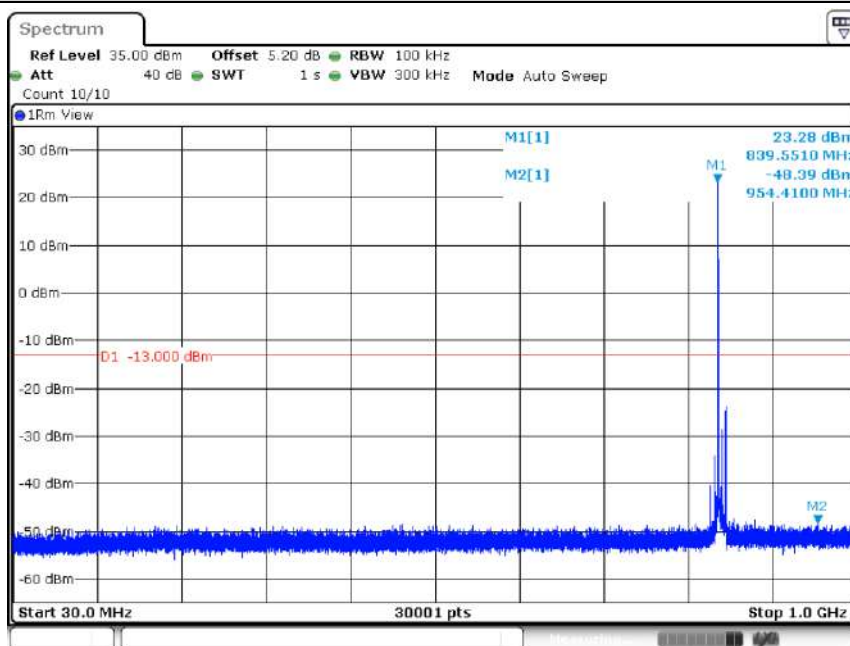
Member of the SGS Group (SGS SA)

Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 02:16:19

Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



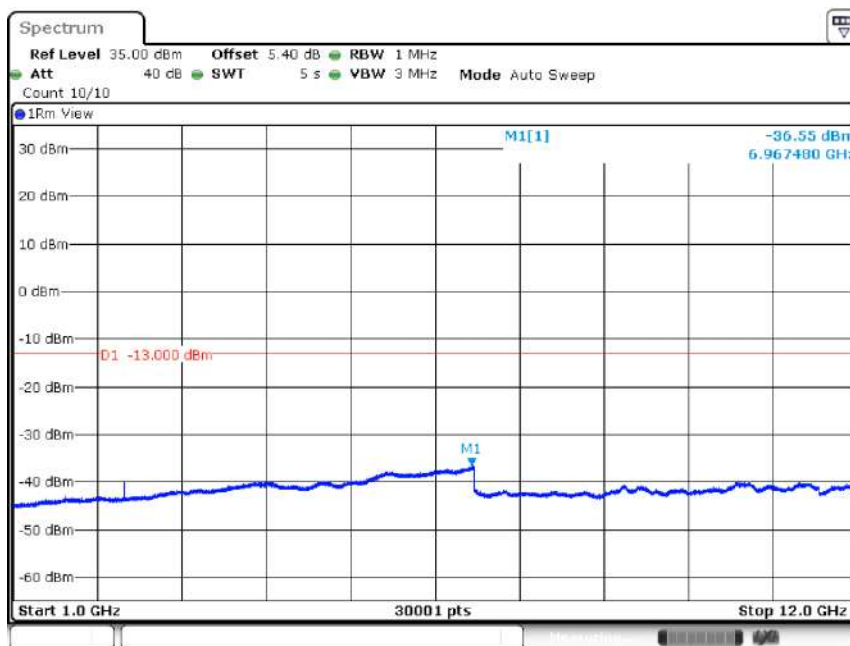
Date: 15 AUG 2020 02:16:39



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.

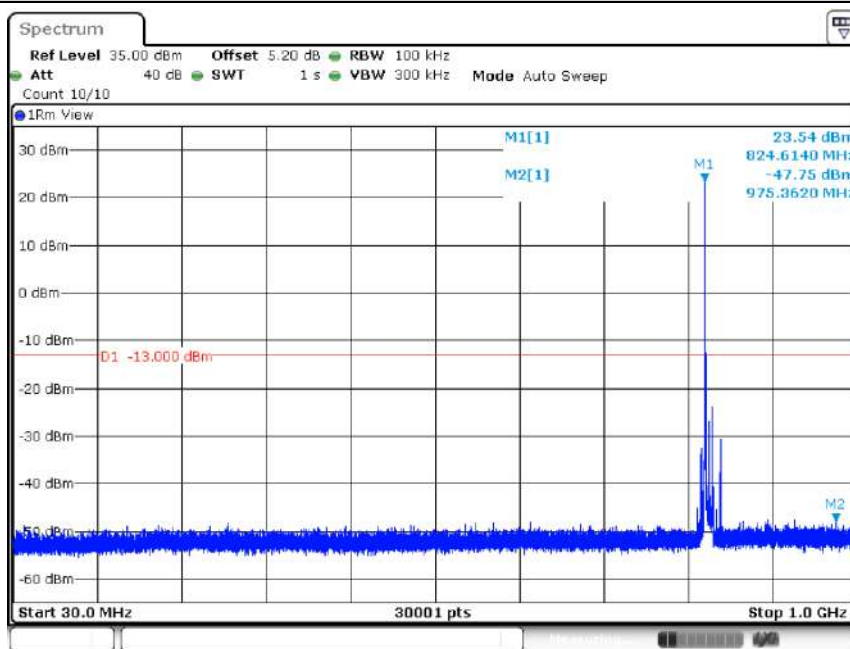
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-64QAM-20600-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 02:17:47

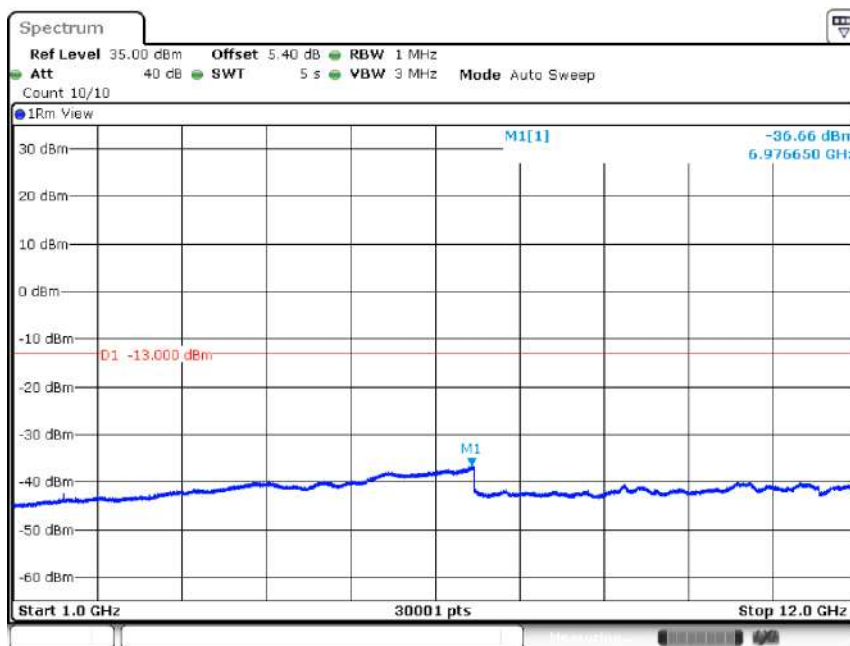
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 00:01:06

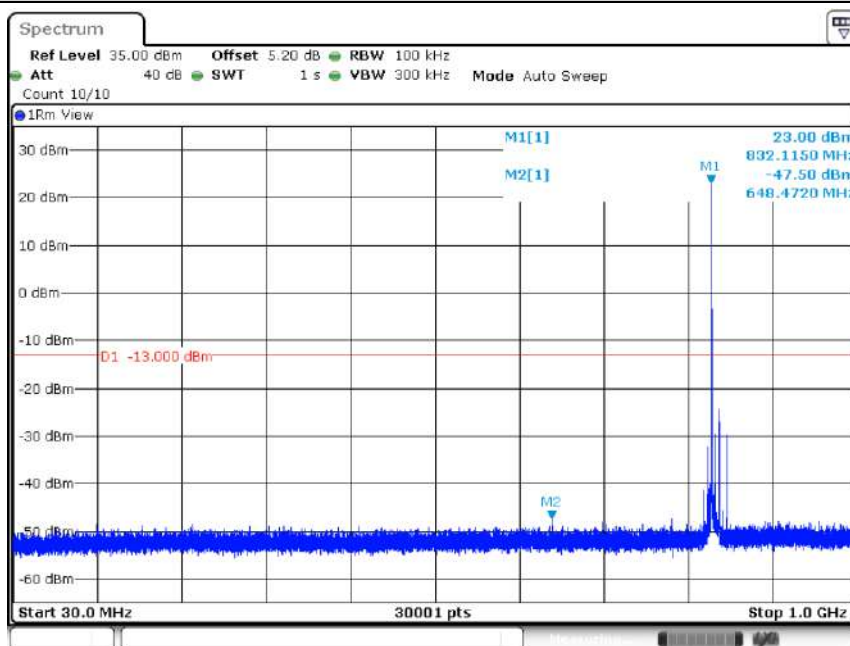


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 00:02:14

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



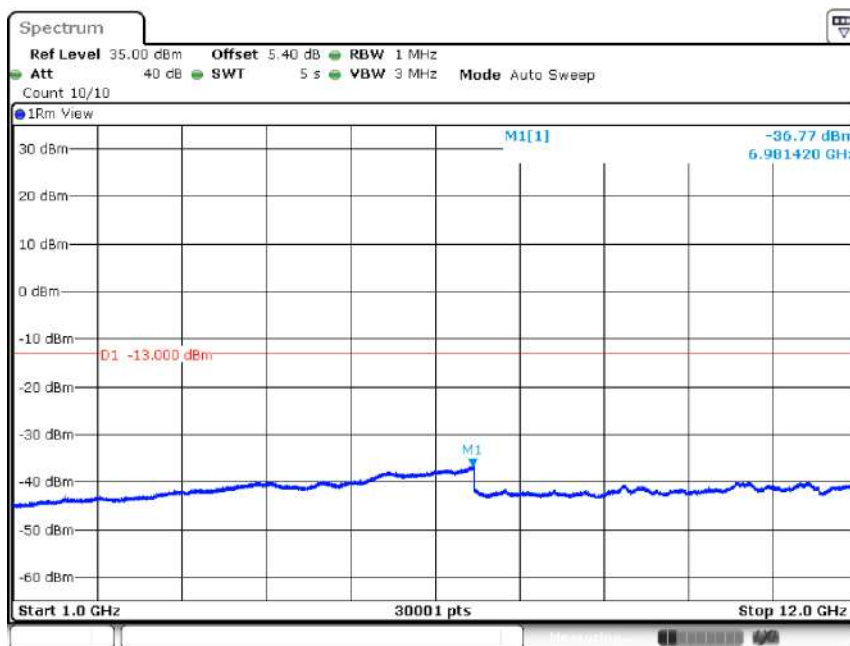
Date: 15 AUG 2020 00:04:01



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.

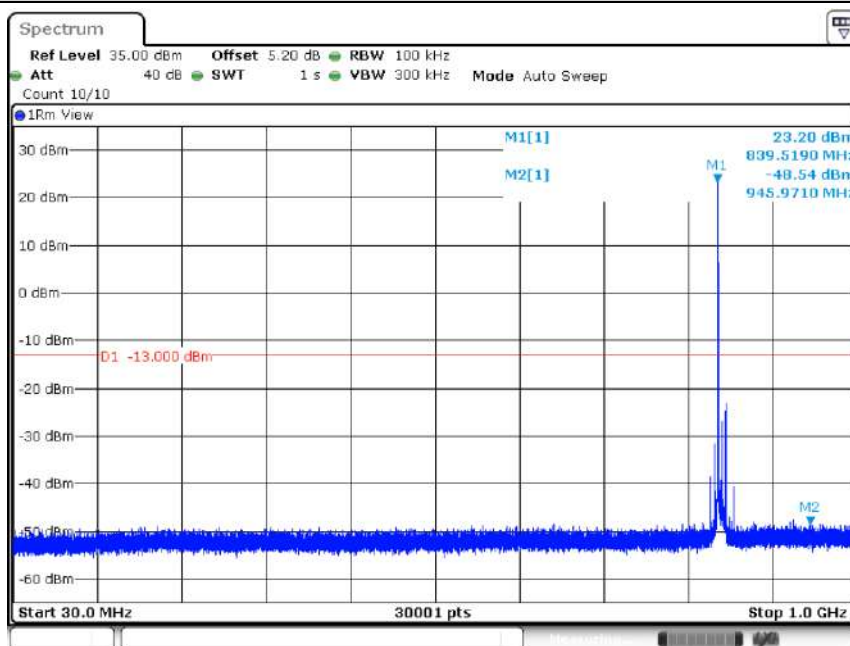
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 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-20525-1RB#0-Range2:1000~12000MHz



Date: 15 AUG 2020 00:05:08

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



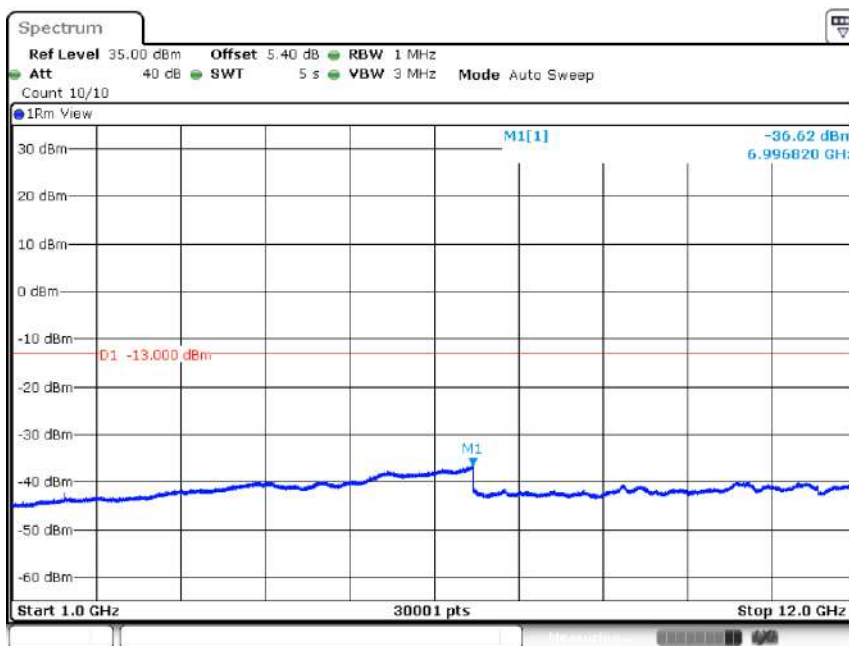
Date: 15 AUG 2020 00:06:57



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#0-Range2:1000~12000MHz



Date: 15.AUG.2020 00:08:04



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) 83071443, or email: CN.Doccheck@sgs.com

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

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

Member of the SGS Group (SGS SA)

7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz(Up Antenna)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
50.6620	-70.06	-13.00	57.06	224	164	Vertical
118.0804	-62.83	-13.00	49.83	236	284	Vertical
328.7749	-66.43	-13.00	53.43	247	85	Vertical
1648.9298	-64.57	-13.00	51.57	259	167	Vertical
2438.6877	-57.47	-13.00	44.47	257	190	Vertical
9297.8766	-52.05	-13.00	39.05	241	284	Vertical
41.6891	-62.43	-13.00	49.43	187	182	Horizontal
88.4939	-72.70	-13.00	59.70	163	14	Horizontal
226.1923	-65.68	-13.00	52.68	187	252	Horizontal
1649.3299	-61.38	-13.00	48.38	152	287	Horizontal
2699.1398	-56.43	-13.00	43.43	194	124	Horizontal
7458.6820	-56.16	-13.00	43.16	178	150	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
50.1285	-69.94	-13.00	56.94	224	209	Vertical
117.3044	-62.38	-13.00	49.38	258	2	Vertical
383.6797	-65.57	-13.00	52.57	263	110	Vertical
1710.1420	-63.06	-13.00	50.06	284	222	Vertical
2691.1382	-57.62	-13.00	44.62	271	182	Vertical
7447.9483	-55.89	-13.00	42.89	259	277	Vertical
40.6220	-62.57	-13.00	49.57	198	158	Horizontal
109.5925	-72.51	-13.00	59.51	174	322	Horizontal
243.9442	-64.61	-13.00	51.61	162	22	Horizontal
1664.1328	-63.38	-13.00	50.38	187	228	Horizontal
2693.9388	-56.40	-13.00	43.40	166	189	Horizontal
7466.8489	-56.20	-13.00	43.20	182	22	Horizontal



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
48.3339	-69.47	-13.00	56.47	224	0	Vertical
112.0661	-63.36	-13.00	50.36	258	165	Vertical
393.3802	-64.67	-13.00	51.67	263	0	Vertical
1699.7399	-63.34	-13.00	50.34	287	183	Vertical
2462.6925	-57.33	-13.00	44.33	214	342	Vertical
7363.7121	-55.75	-13.00	42.75	257	350	Vertical
41.6891	-62.09	-13.00	49.09	198	318	Horizontal
79.0360	-73.29	-13.00	60.29	174	4	Horizontal
235.7958	-65.83	-13.00	52.83	162	136	Horizontal
1599.7199	-64.11	-13.00	51.11	184	261	Horizontal
2701.5403	-56.49	-13.00	43.49	191	104	Horizontal
9327.0442	-52.83	-13.00	39.83	167	136	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

7.2. Test Mode =LTE/TM1 10MHz(Down Antenna)

7.2.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.3386	-62.39	-13.00	49.39	296	166	Vertical
433.3462	-65.01	-13.00	52.01	210	70	Vertical
1648.9298	-56.62	-13.00	43.62	236	109	Vertical
2473.8948	-55.26	-13.00	42.26	288	112	Vertical
7312.6104	-56.85	-13.00	43.85	163	166	Vertical
9828.0276	-52.43	-13.00	39.43	128	102	Vertical
39.6520	-62.82	-13.00	49.82	263	39	Horizontal
233.9042	-65.02	-13.00	52.02	211	134	Horizontal
1649.3299	-56.21	-13.00	43.21	197	4	Horizontal
2473.8948	-51.81	-13.00	38.81	186	4	Horizontal
7486.2162	-56.63	-13.00	43.63	263	39	Horizontal
9310.0103	-53.01	-13.00	40.01	111	325	Horizontal

7.2.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
107.2159	-62.20	-13.00	49.20	263	8	Vertical
453.6202	-64.56	-13.00	51.56	211	166	Vertical
1664.1328	-59.42	-13.00	46.42	284	72	Vertical
2496.2993	-57.47	-13.00	44.47	106	77	Vertical
7329.8777	-56.11	-13.00	43.11	187	71	Vertical
9901.7634	-52.54	-13.00	39.54	162	71	Vertical
37.7119	-62.02	-13.00	49.02	261	293	Horizontal
230.5575	-65.15	-13.00	52.15	222	166	Horizontal
1664.1328	-57.47	-13.00	44.47	182	223	Horizontal
2496.2993	-54.86	-13.00	41.86	152	9	Horizontal
5611.7871	-61.22	-13.00	48.22	136	103	Horizontal
9312.3437	-52.57	-13.00	39.57	173	293	Horizontal



7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
111.3386	-62.65	-13.00	49.65	196	7	Vertical
449.5460	-64.54	-13.00	51.54	122	166	Vertical
1679.3359	-62.44	-13.00	49.44	265	80	Vertical
2518.7037	-58.20	-13.00	45.20	152	107	Vertical
7997.6999	-55.75	-13.00	42.75	255	198	Vertical
9893.1298	-52.22	-13.00	39.22	289	166	Vertical
42.2711	-62.88	-13.00	49.88	263	261	Horizontal
244.9627	-65.27	-13.00	52.27	222	102	Horizontal
1678.9358	-61.45	-13.00	48.45	186	308	Horizontal
2518.7037	-54.97	-13.00	41.97	132	9	Horizontal
6695.1898	-59.12	-13.00	46.12	178	71	Horizontal
9330.5444	-52.57	-13.00	39.57	192	166	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.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	1.80	0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	2.30	0.002725	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	0.70	0.000844	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	1.30	0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	2.80	0.003347	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	0.50	0.000592	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
------	-----------	------------	---------	--------------	---------------	------------------	----------------	-----------------	-------------	---------



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

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	50RB#0	NV	-30	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	2.00	0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	2.00	0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	0.40	0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	3.10	0.003673	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	1.30	0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	1.90	0.002251	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	0.20	0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	0.70	0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.10	0.000118	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	0.60	0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	0.50	0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	2.40	0.002869	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	1.20	0.001435	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	0.70	0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	1.30	0.001554	±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

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	64QAM	20525	50RB#0	NV	40	0.20	0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	2.10	0.002488	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	2.20	0.002607	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	1.70	0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	0.80	0.000948	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	1.80	0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	1.00	0.001185	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	1.20	0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	1.30	0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	2.10	0.002533	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	2.20	0.002654	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	1.20	0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	3.20	0.003825	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	0.80	0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	1.70	0.002014	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.50	-0.000592	±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