



Appendix B

E-UTRA Band 38



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

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

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

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



CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1. TEST RESULT.....	3
2. PEAK-TO-AVERAGE RATIO (CCDF).....	9
2.1. TEST RESULT.....	9
2.2. TEST PLOTS.....	9
3. MODULATION CHARACTERISTICS.....	13
3.1. TEST MODE = LTE /TM1 20MHZ.....	13
3.1.1. TEST CHANNEL = MCH.....	13
3.2. TEST MODE = LTE /TM2 20MHZ.....	14
3.2.1. TEST CHANNEL = MCH.....	14
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	15
4.1. TEST RESULT.....	15
4.2. TEST PLOTS.....	16
5. BAND EDGE COMPLIANCE.....	28
5.1. TEST PLOTS.....	28
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	44
6.1. TEST PLOTS.....	44
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	50
7.1. TEST MODE =LTE/TM1 20MHZ.....	50
7.1.1. TEST CHANNEL = LCH.....	50
7.1.2. TEST CHANNEL = MCH.....	50
7.1.3. TEST CHANNEL = HCH.....	51
8. FREQUENCY STABILITY.....	52
8.1. FREQUENCY VS VOLTAGE.....	52
8.2. FREQUENCY VS TEMPERATURE.....	52



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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP(dBm)	limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.53	23.53	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.6	23.6	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.49	23.49	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.64	22.64	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.71	22.71	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.61	22.61	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.59	22.59	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.54	23.54	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.66	23.66	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.58	23.58	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.71	22.71	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.74	22.74	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.75	22.75	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.69	22.69	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.54	23.54	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.67	23.67	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.52	23.52	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.79	22.79	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.83	22.83	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.76	22.76	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.64	22.64	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.56	22.56	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.63	22.63	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.52	22.52	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.58	21.58	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.58	21.58	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.54	21.54	33.00	PASS



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



Band38	5MHz	16QAM	37775	25RB#0	21.65	21.65	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.64	22.64	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.68	22.68	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.54	22.54	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.58	21.58	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.7	21.7	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.63	21.63	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.69	21.69	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.63	22.63	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.67	22.67	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.59	22.59	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.61	21.61	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.68	21.68	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.59	21.59	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.72	21.72	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.66	23.66	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.61	23.61	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.61	23.61	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.65	22.65	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.67	22.67	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.72	22.72	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.58	22.58	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.68	23.68	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.64	23.64	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.64	23.64	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.71	22.71	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.75	22.75	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.73	22.73	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.57	22.57	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.72	23.72	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.65	23.65	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.68	23.68	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.8	22.8	33.00	PASS



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



Band38	10MHz	QPSK	38200	25RB#0	22.69	22.69	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.73	22.73	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.64	22.64	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.64	22.64	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.59	22.59	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.7	22.7	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.66	21.66	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.63	21.63	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.72	21.72	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.55	21.55	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.73	22.73	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.62	22.62	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.7	22.7	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.74	21.74	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.69	21.69	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.69	21.69	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.66	21.66	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.73	22.73	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.64	22.64	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.69	22.69	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.78	21.78	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.7	21.7	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.72	21.72	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.68	21.68	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.57	23.57	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.65	23.65	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.59	23.59	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.68	22.68	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.69	22.69	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.72	22.72	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.67	22.67	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.6	23.6	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.66	23.66	33.00	PASS



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



Band38	15MHz	QPSK	38000	1RB#74	23.53	23.53	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.74	22.74	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.76	22.76	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.73	22.73	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.62	22.62	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.56	23.56	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.68	23.68	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.55	23.55	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.74	22.74	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.82	22.82	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.74	22.74	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.64	22.64	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.59	22.59	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.68	22.68	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.61	22.61	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.56	21.56	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.68	21.68	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.61	21.61	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.66	21.66	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.61	22.61	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.74	22.74	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.62	22.62	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.69	21.69	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.7	21.7	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.64	21.64	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.64	21.64	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.56	22.56	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.6	22.6	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.61	22.61	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.62	21.62	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	21.69	21.69	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.61	21.61	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.58	21.58	33.00	PASS



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



Band38	20MHz	QPSK	37850	1RB#0	23.44	23.44	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.76	23.76	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.34	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.57	22.57	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.63	22.63	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.65	22.65	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.68	22.68	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.44	23.44	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.76	23.76	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.36	23.36	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.6	22.6	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.6	22.6	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.63	22.63	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.71	22.71	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.36	23.36	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.78	23.78	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.36	23.36	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.54	22.54	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.68	22.68	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.62	22.62	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.69	22.69	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.48	22.48	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.8	22.8	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.43	22.43	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.52	21.52	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.62	21.62	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.65	21.65	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.67	21.67	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.46	22.46	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.71	22.71	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.41	22.41	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.6	21.6	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.63	21.63	33.00	PASS



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



Band38	20MHz	16QAM	38000	50RB#50	21.66	21.66	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.68	21.68	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.46	22.46	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.71	22.71	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.38	22.38	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.61	21.61	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.65	21.65	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.53	21.53	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.62	21.62	33.00	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
 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

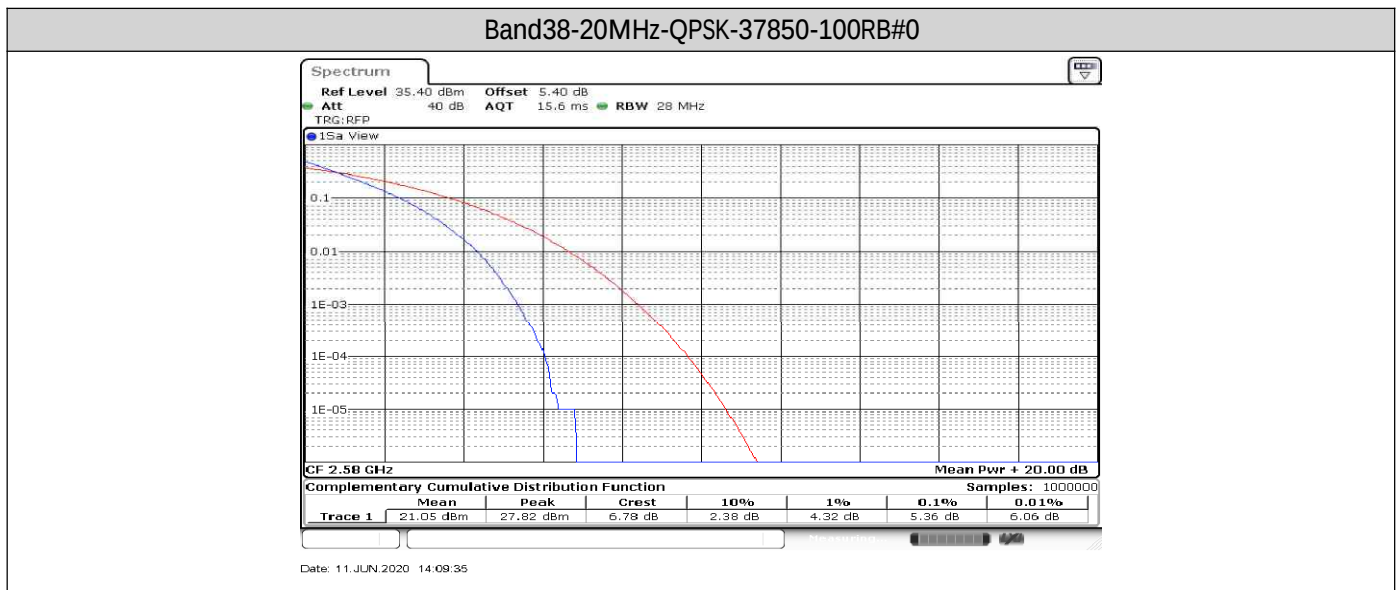


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

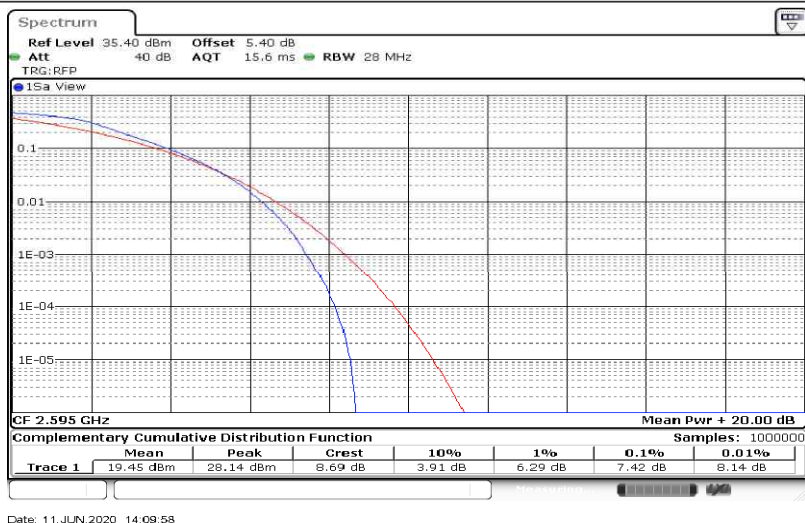
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	5.36	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.42	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.42	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.12	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.14	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	8.14	13	PASS

2.2. Test Plots

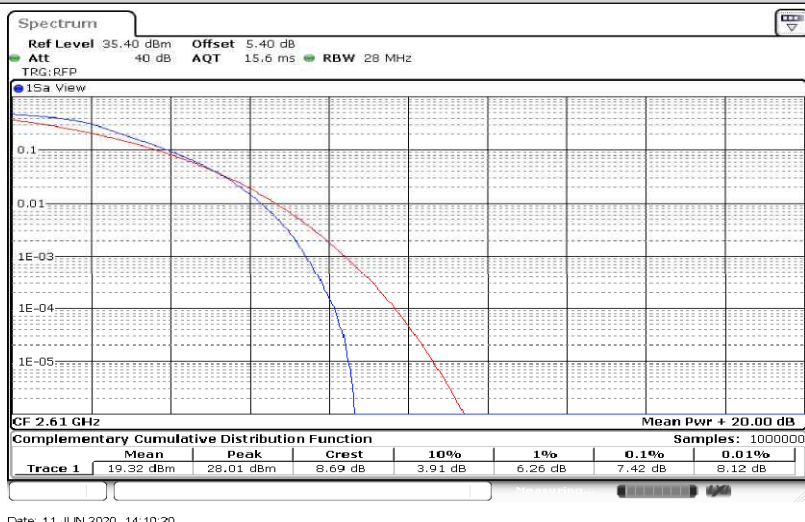




Band38-20MHz-QPSK-38000-100RB#0



Band38-20MHz-QPSK-38150-100RB#0



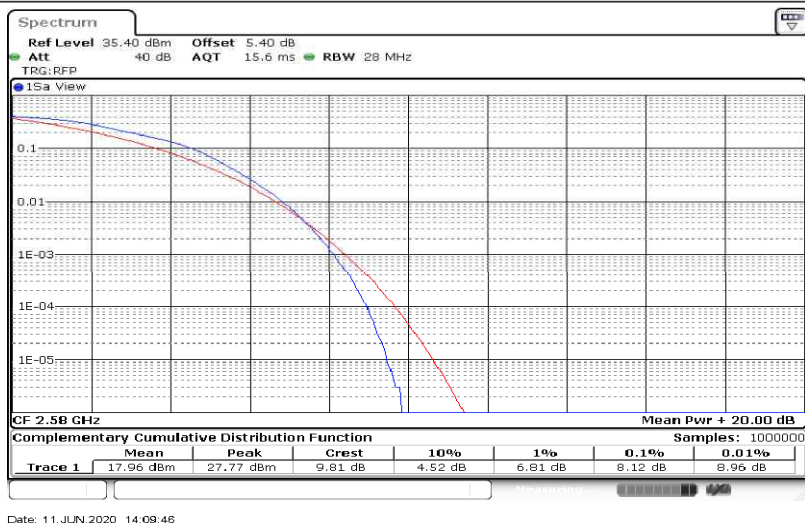
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

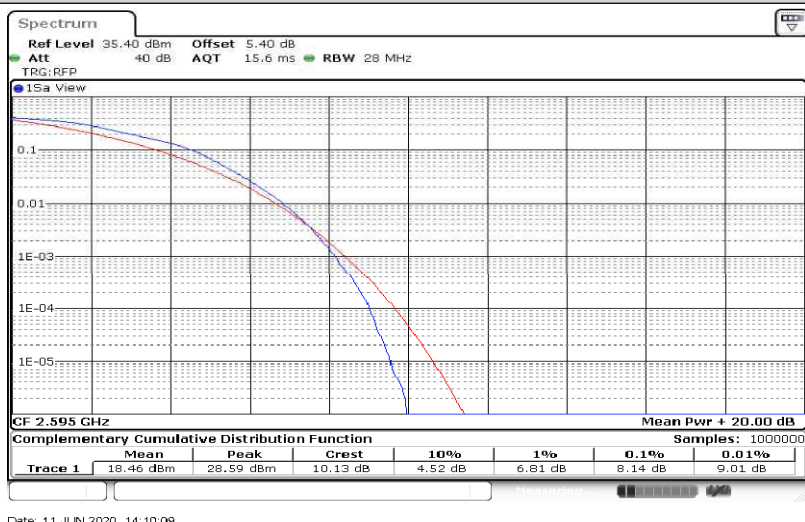
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-16QAM-37850-100RB#0

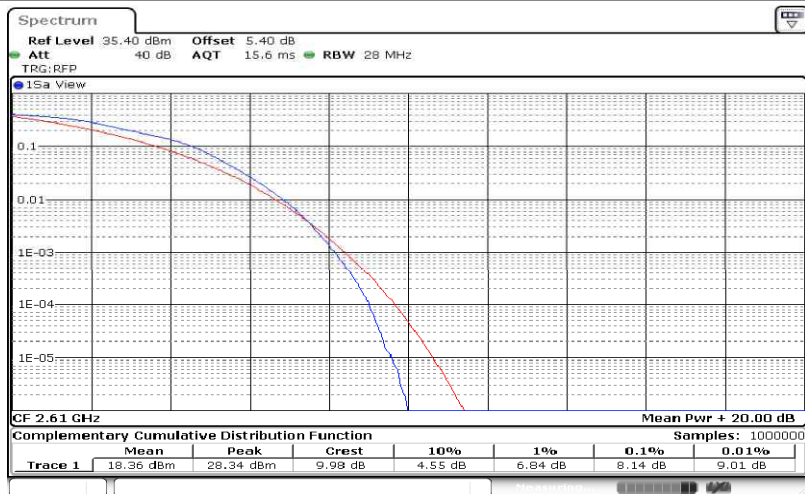


Band38-20MHz-16QAM-38000-100RB#0





Band38-20MHz-16QAM-38150-100RB#0



Date: 11 JUN 2020 14:10:31

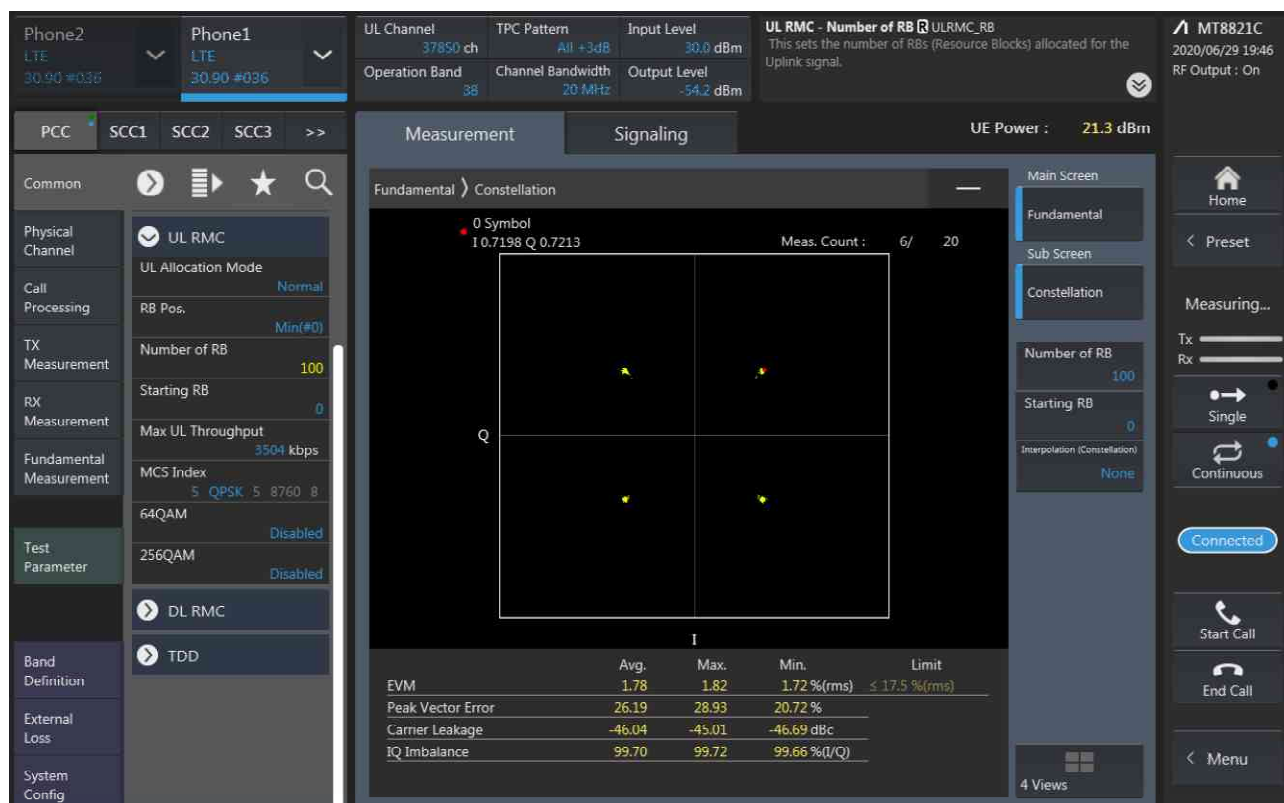




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

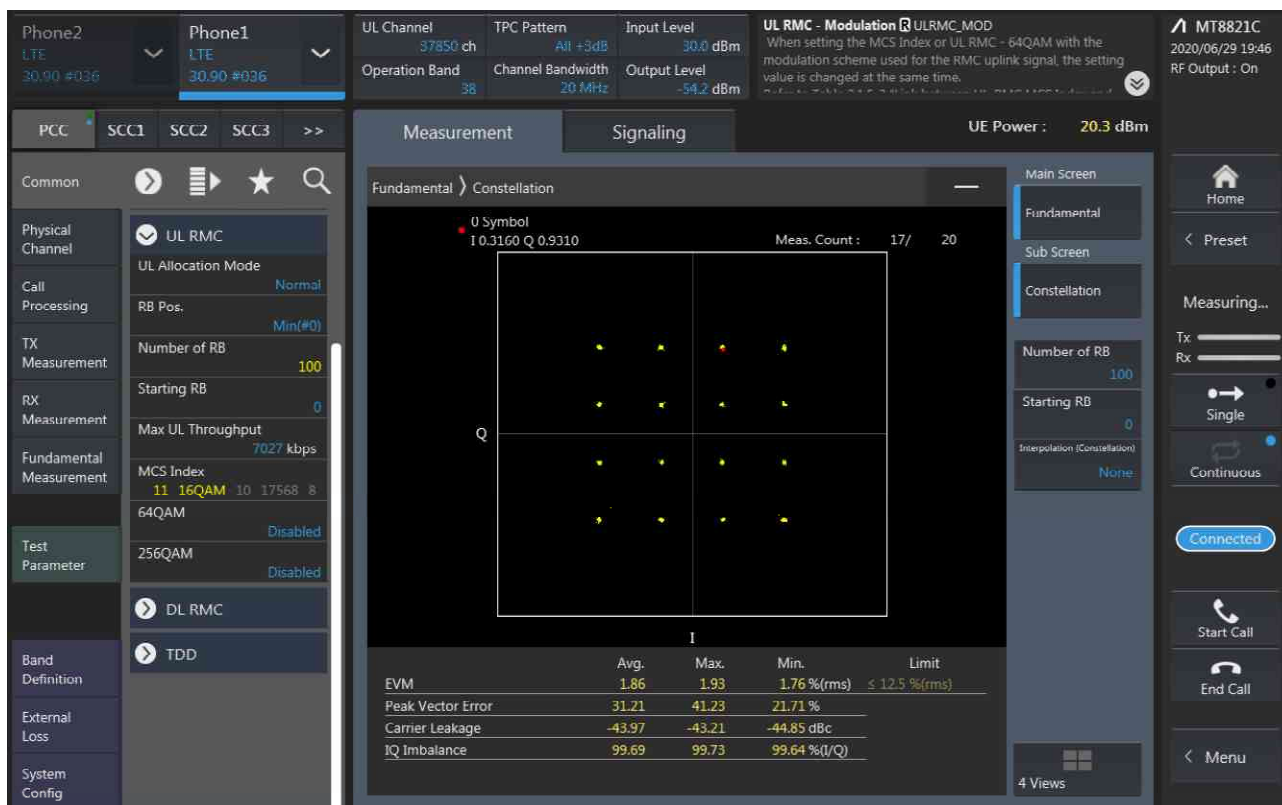
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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

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

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

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



4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.486	4.730	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.486	4.700	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.720	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.810	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.780	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.730	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.951	9.400	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.951	9.440	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.971	9.480	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.951	9.440	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.971	9.460	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.971	9.500	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.606	14.490	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.576	14.880	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.636	14.520	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.576	14.490	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.576	14.970	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.576	14.700	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.142	19.200	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.102	19.200	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.862	19.080	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.142	19.120	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	18.640	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.062	18.800	PASS



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

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

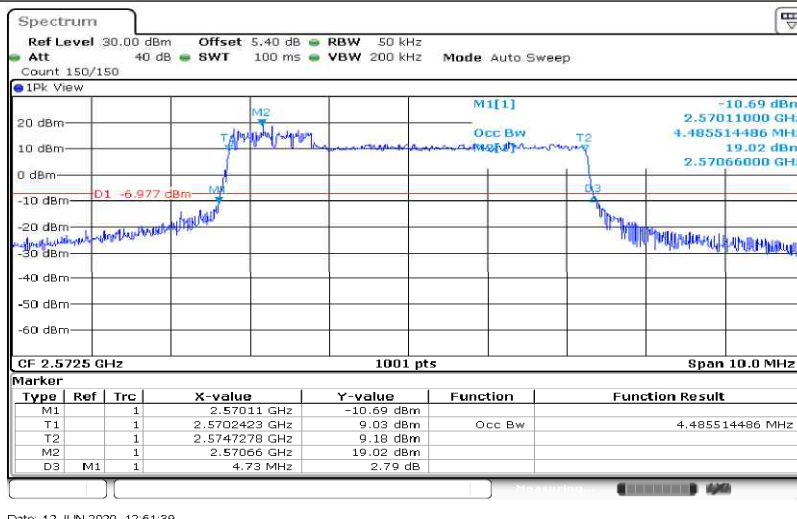
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing & Calibration Laboratory

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

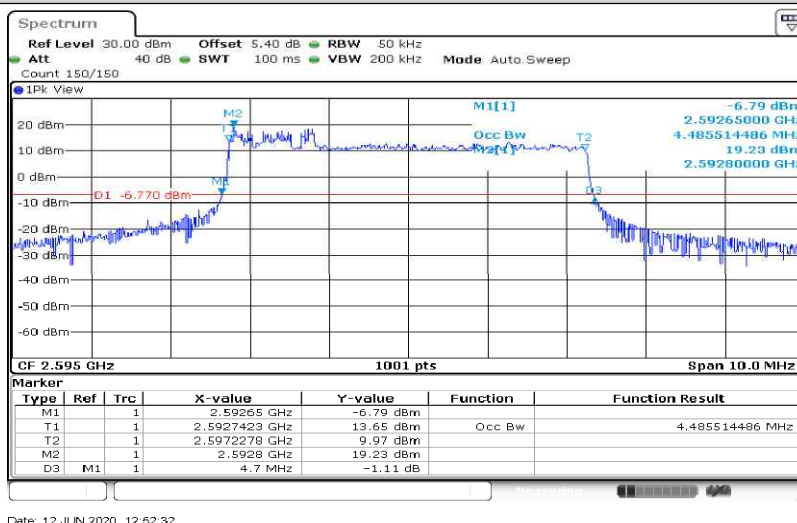


4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.486



Band38-5MHz-QPSK-38000-25RB#0-4.486

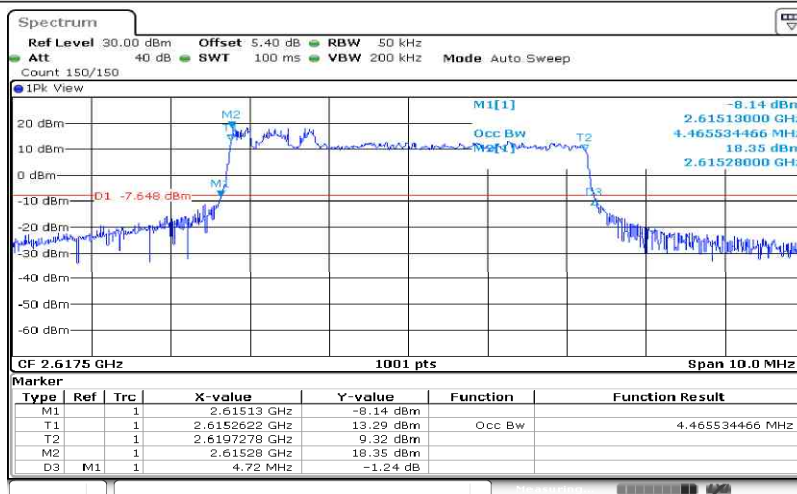


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

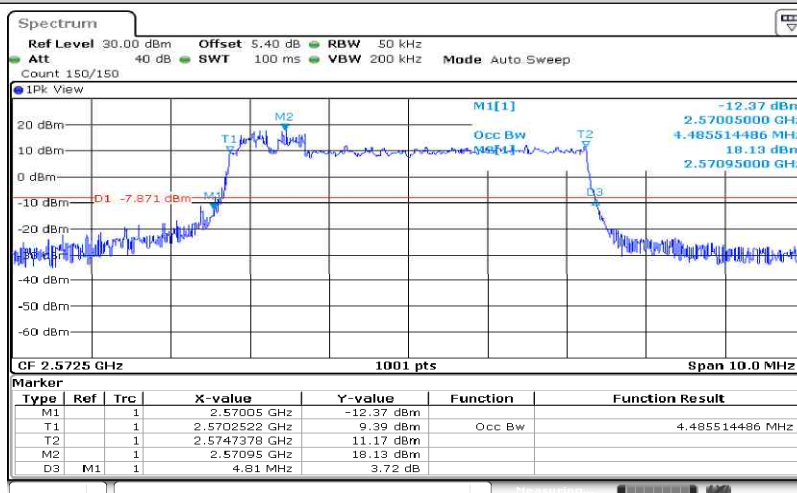


Band38-5MHz-QPSK-38225-25RB#0-4.466



Date: 12 JUN 2020 12:53:25

Band38-5MHz-16QAM-37775-25RB#0-4.486



Date: 12 JUN 2020 12:52:06



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

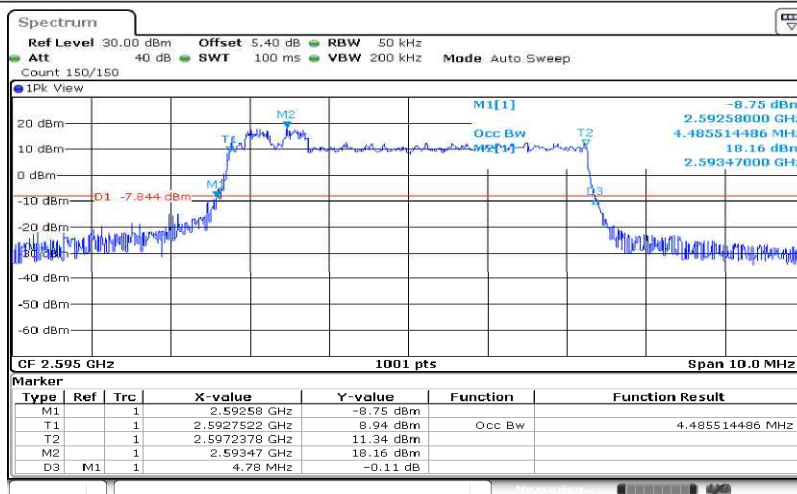
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

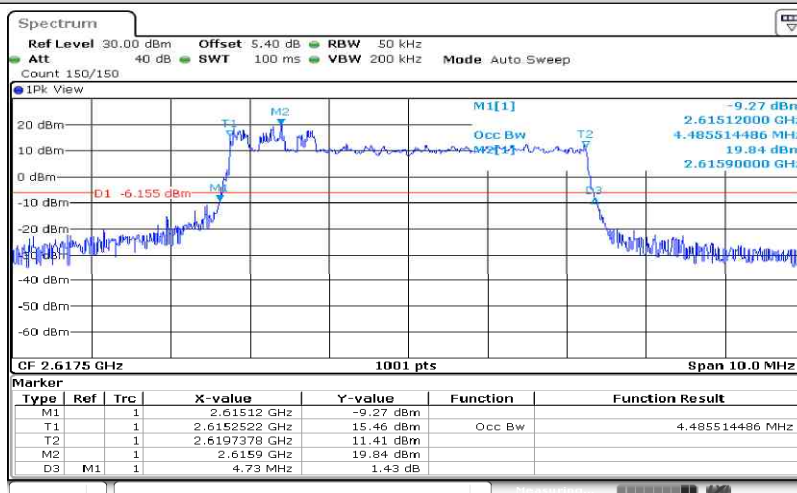


Band38-5MHz-16QAM-38000-25RB#0-4.486



Date: 12 JUN 2020 12:52:58

Band38-5MHz-16QAM-38225-25RB#0-4.486



Date: 12 JUN 2020 12:53:51



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

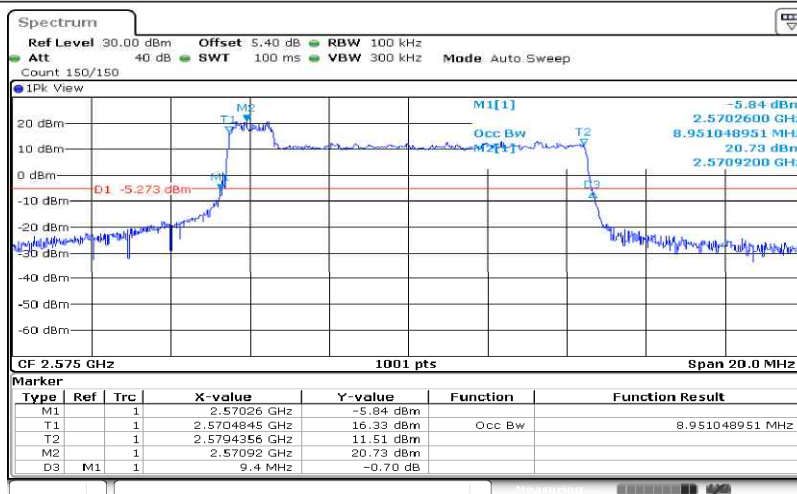
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

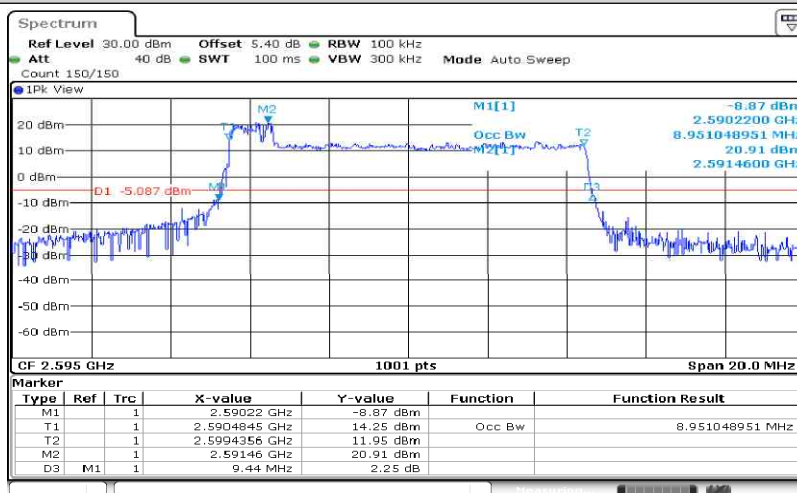


Band38-10MHz-QPSK-37800-50RB#0-8.951



Date: 12 JUN 2020 12:54:22

Band38-10MHz-QPSK-38000-50RB#0-8.951



Date: 12 JUN 2020 12:55:15



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.

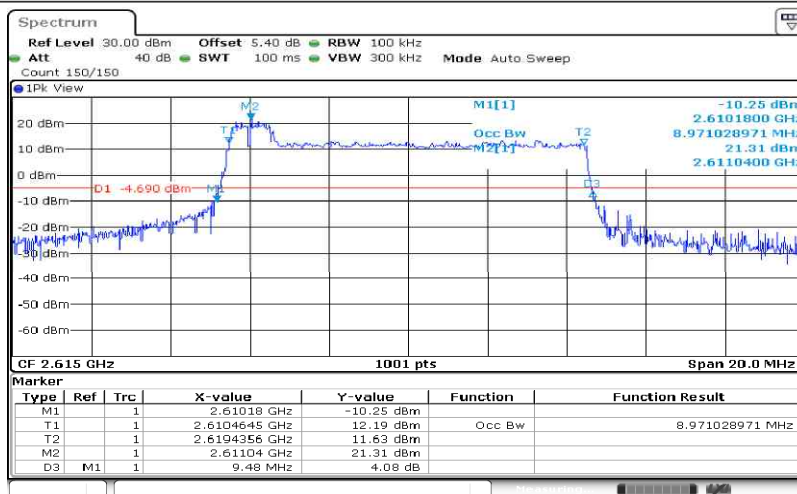
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

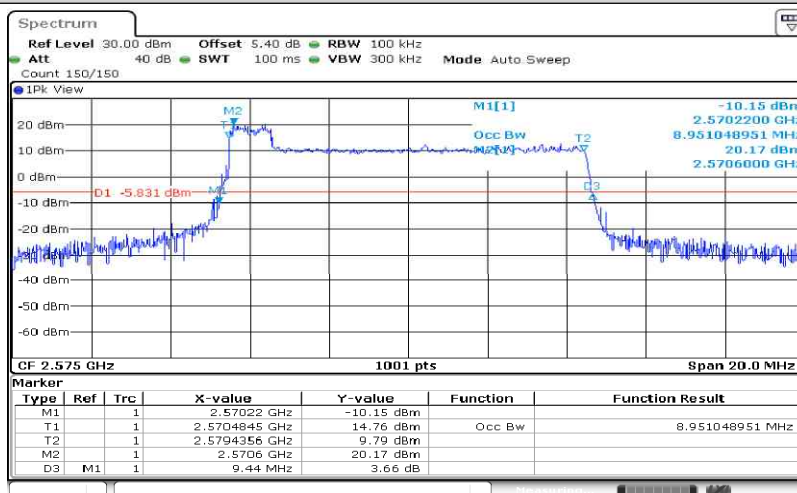


Band38-10MHz-QPSK-38200-50RB#0-8.971



Date: 12 JUN 2020 12:56:07

Band38-10MHz-16QAM-37800-50RB#0-8.951



Date: 12 JUN 2020 12:54:48

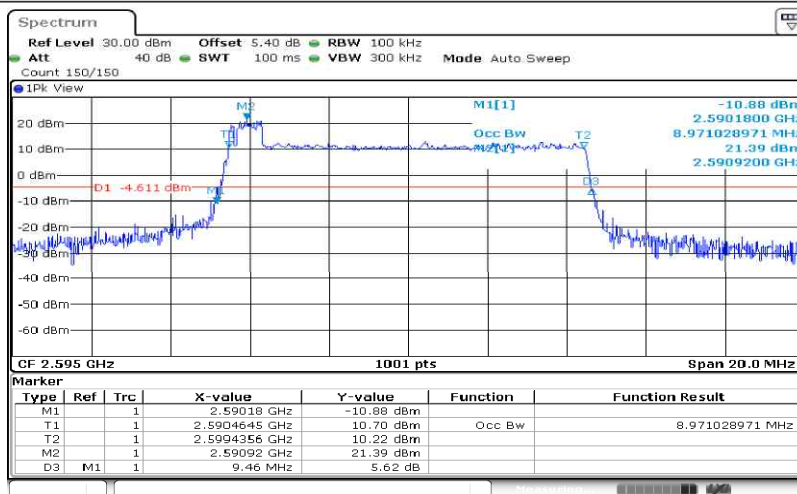


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
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栋一厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

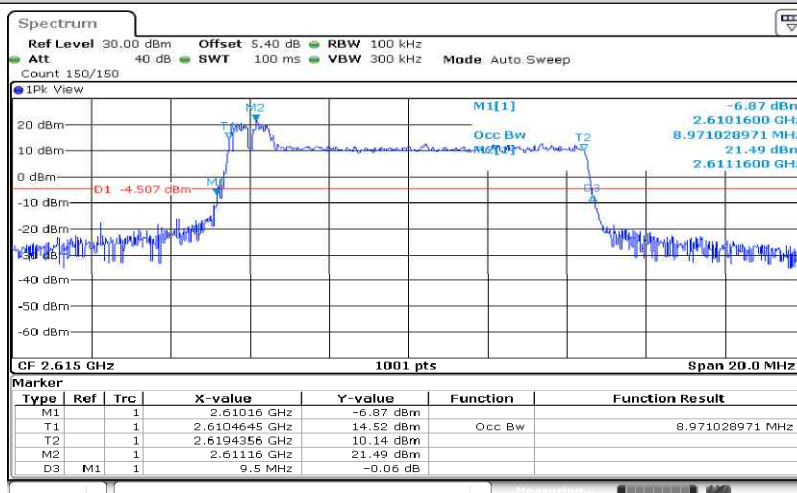


Band38-10MHz-16QAM-38000-50RB#0-8.971



Date: 12 JUN 2020 12:55:41

Band38-10MHz-16QAM-38200-50RB#0-8.971



Date: 12 JUN 2020 12:56:34



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

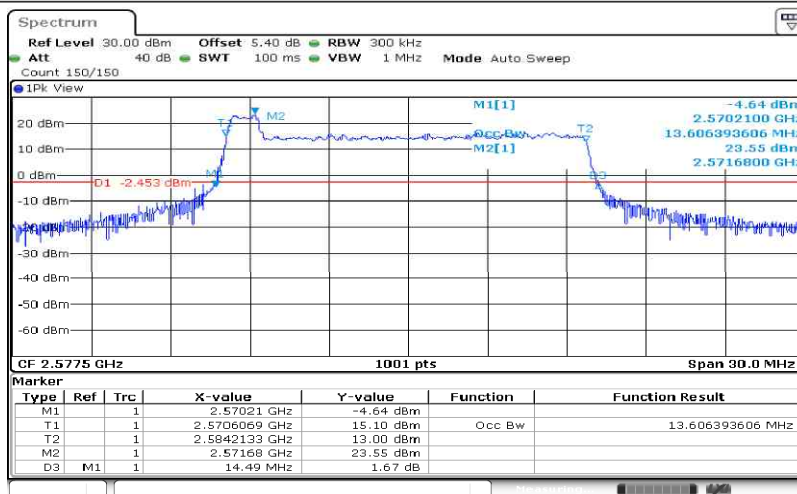
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

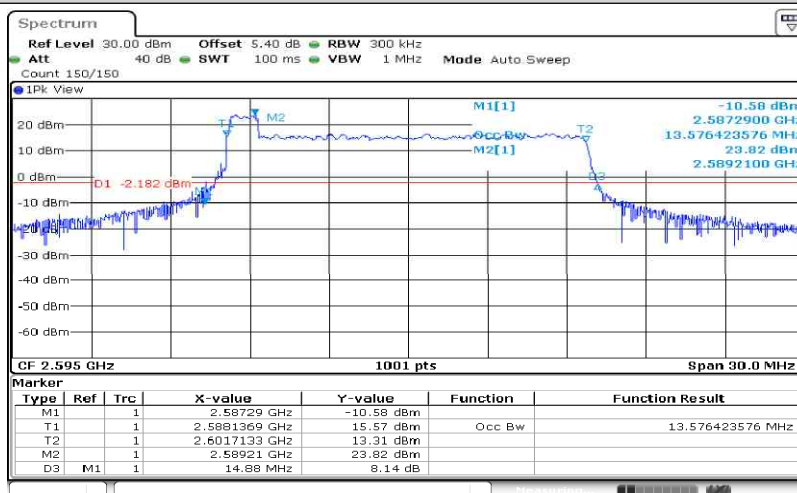


Band38-15MHz-QPSK-37825-75RB#0-13.606



Date: 12 JUN 2020 12:57:04

Band38-15MHz-QPSK-38000-75RB#0-13.576



Date: 12 JUN 2020 12:57:57



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

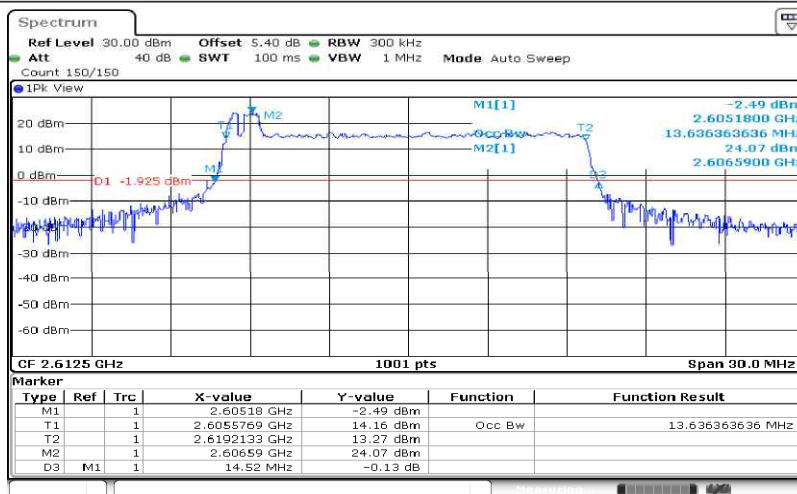
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

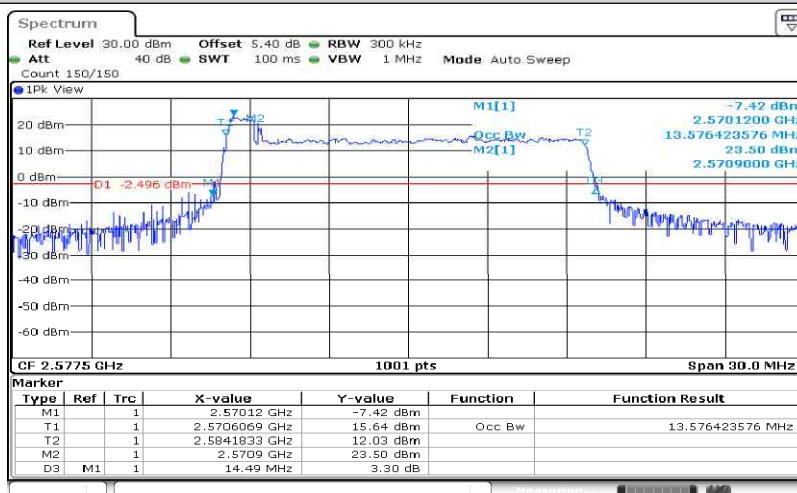


Band38-15MHz-QPSK-38175-75RB#0-13.636



Date: 12 JUN 2020 12:58:50

Band38-15MHz-16QAM-37825-75RB#0-13.576



Date: 12 JUN 2020 12:57:31

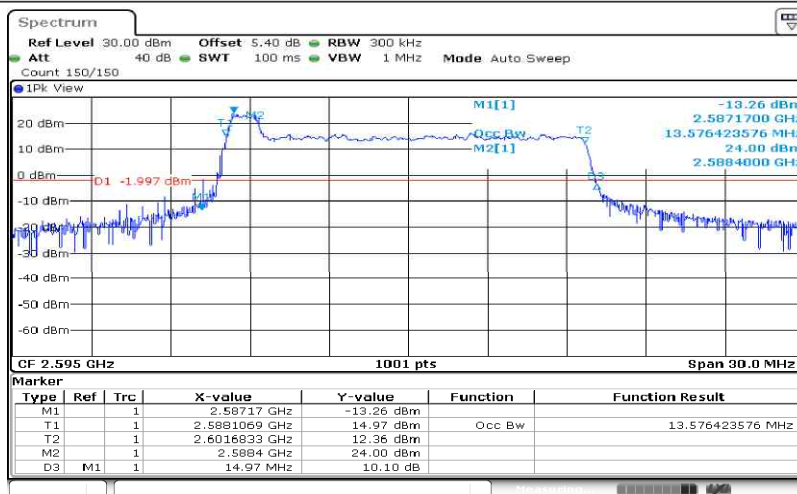


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

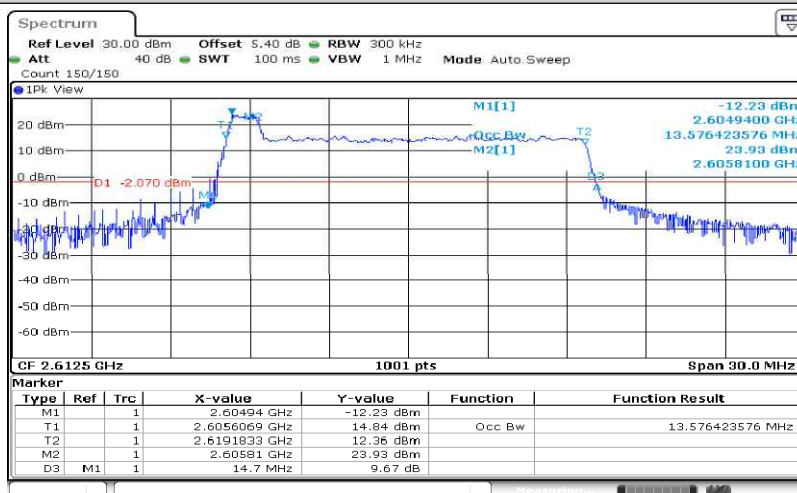


Band38-15MHz-16QAM-38000-75RB#0-13.576



Date: 12 JUN 2020 12:58:23

Band38-15MHz-16QAM-38175-75RB#0-13.576



Date: 12 JUN 2020 12:59:16

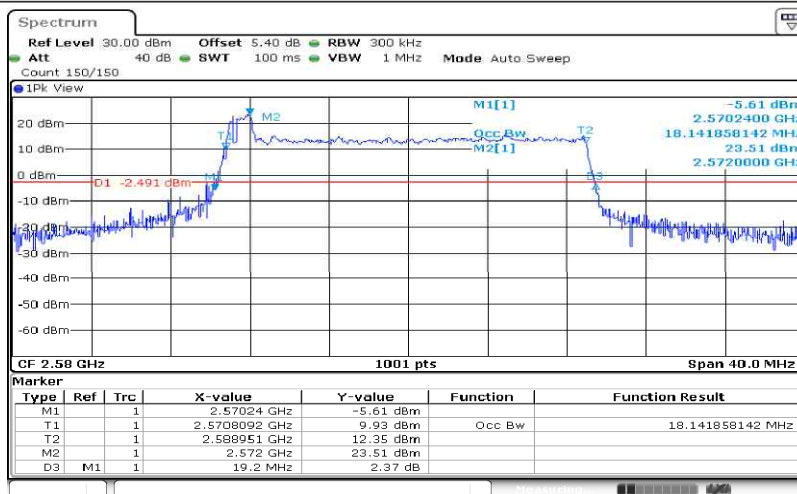


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

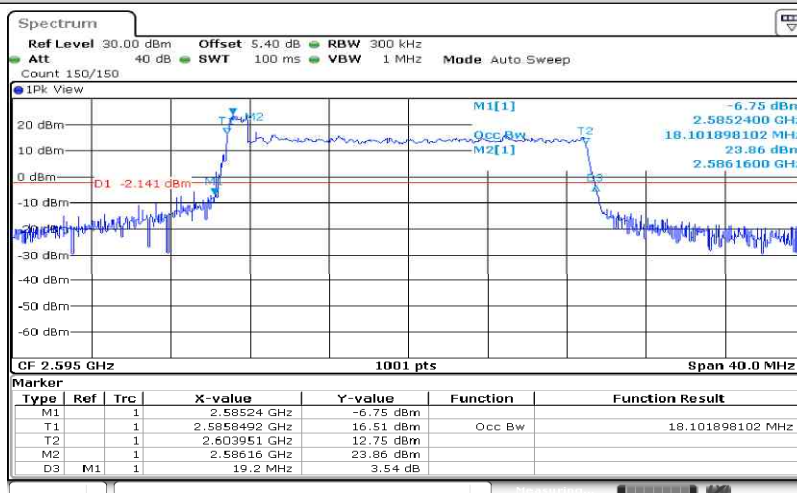


Band38-20MHz-QPSK-37850-100RB#0-18.142



Date: 12 JUN 2020 12:59:47

Band38-20MHz-QPSK-38000-100RB#0-18.102



Date: 12 JUN 2020 13:00:40



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

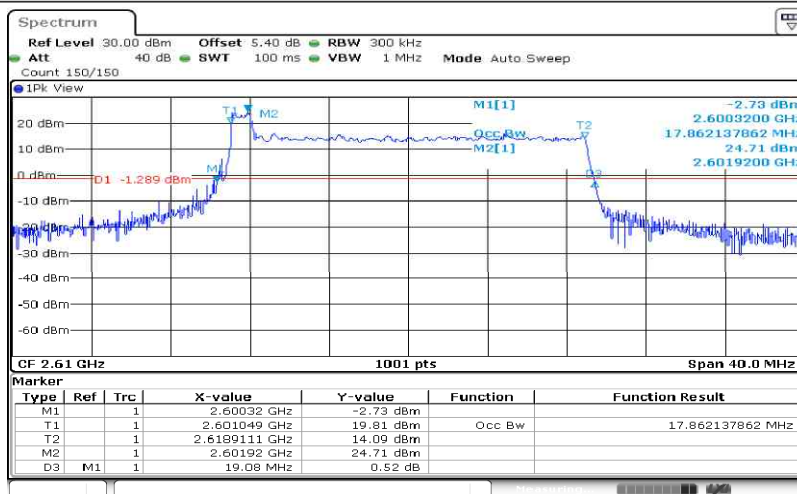
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

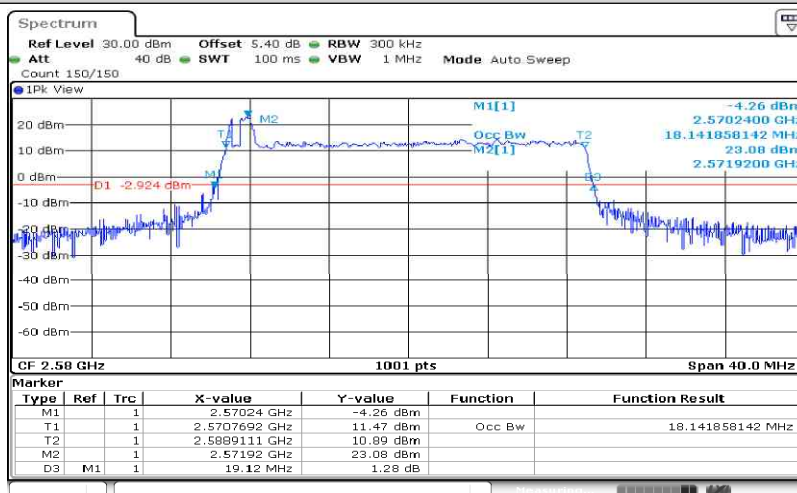


Band38-20MHz-QPSK-38150-100RB#0-17.862



Date: 12 JUN 2020 13:01:32

Band38-20MHz-16QAM-37850-100RB#0-18.142



Date: 12 JUN 2020 13:00:13



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.

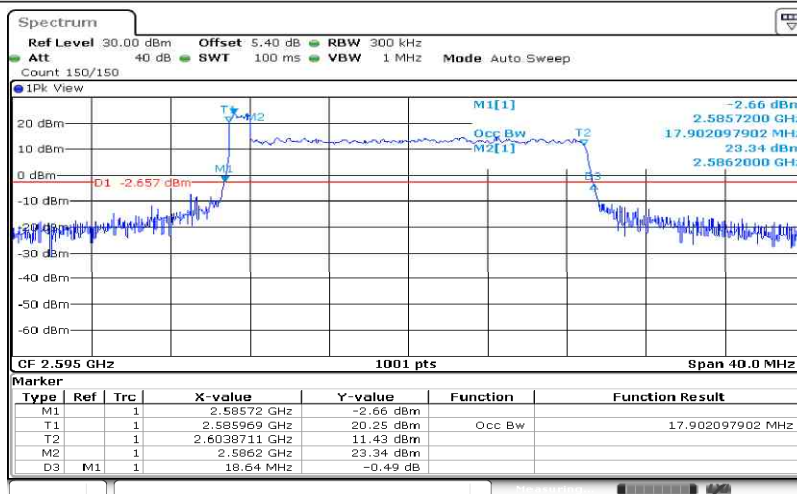
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

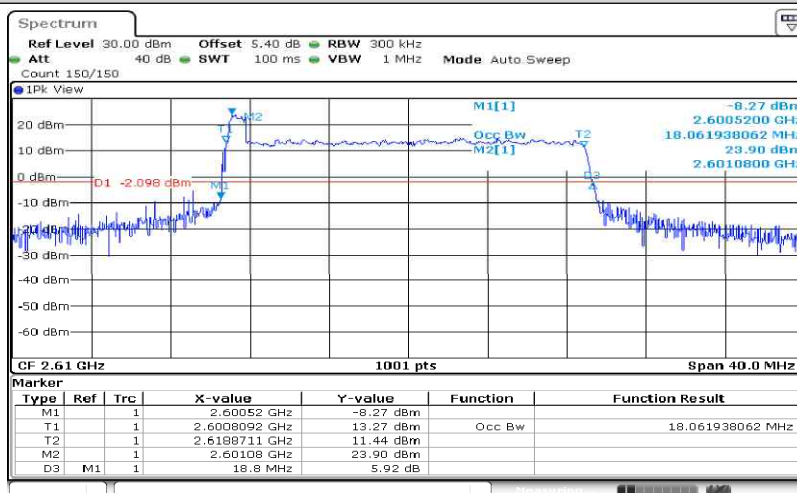


Band38-20MHz-16QAM-38000-100RB#0-17.902



Date: 12 JUN 2020 13:01:06

Band38-20MHz-16QAM-38150-100RB#0-18.062



Date: 12 JUN 2020 13:01:59



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 (CMA) Calibration Laboratory

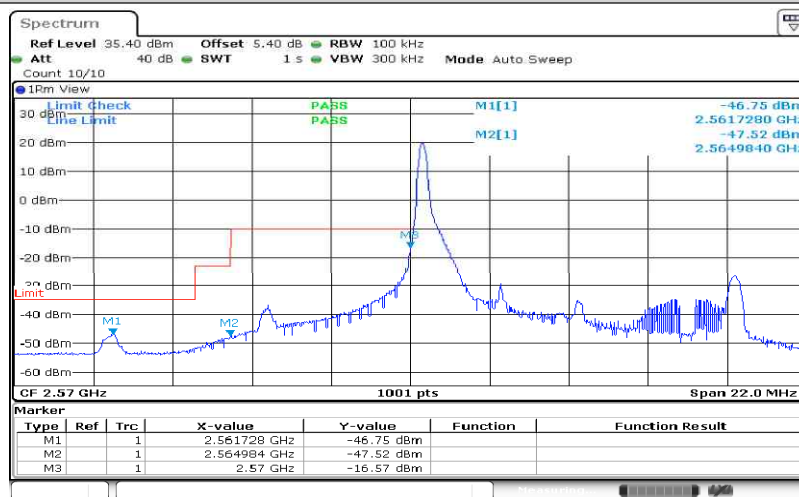
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



5. Band Edge Compliance

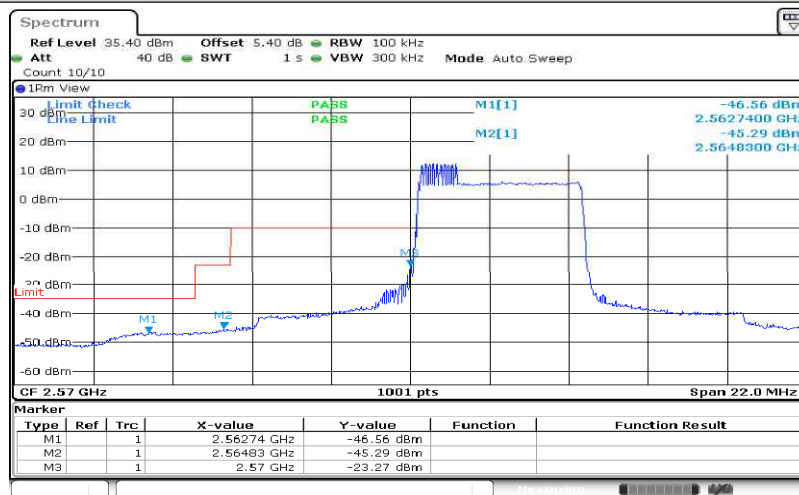
5.1. Test Plots

Band38-5MHz-QPSK-37775-1RB#0



Date: 11 JUN 2020 13:50:59

Band38-5MHz-QPSK-37775-25RB#0

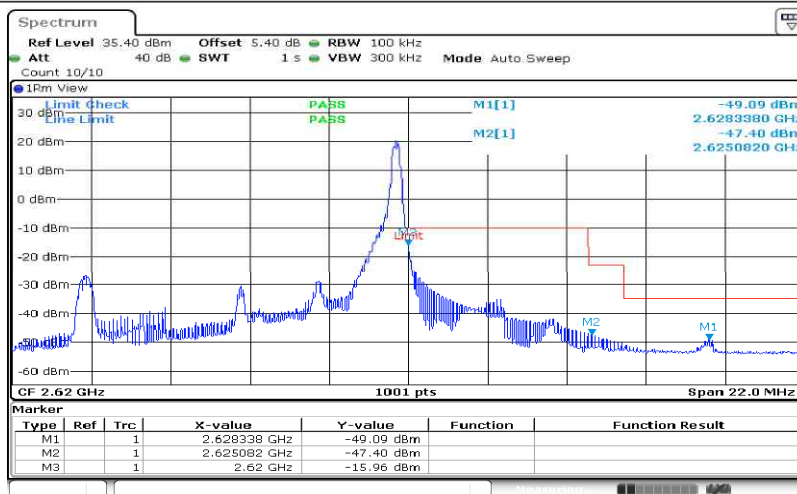


Date: 11 JUN 2020 13:54:17



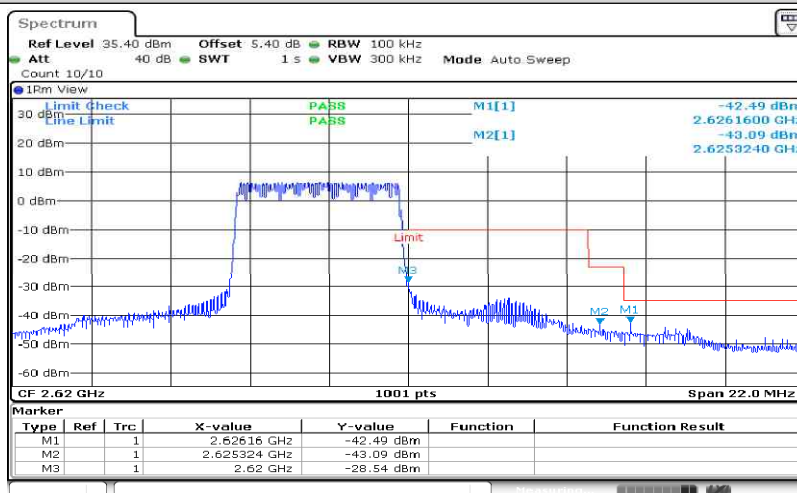


Band38-5MHz-QPSK-38225-1RB#24



Date: 11 JUN 2020 13:52:36

Band38-5MHz-QPSK-38225-25RB#0



Date: 11 JUN 2020 13:55:13



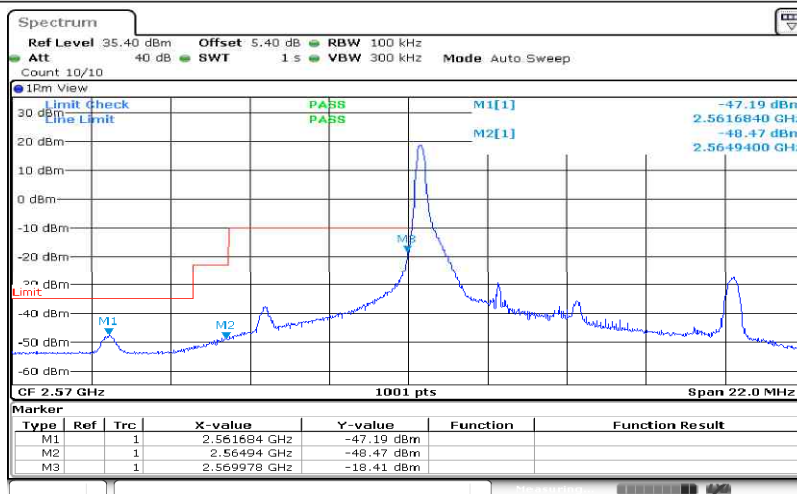
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

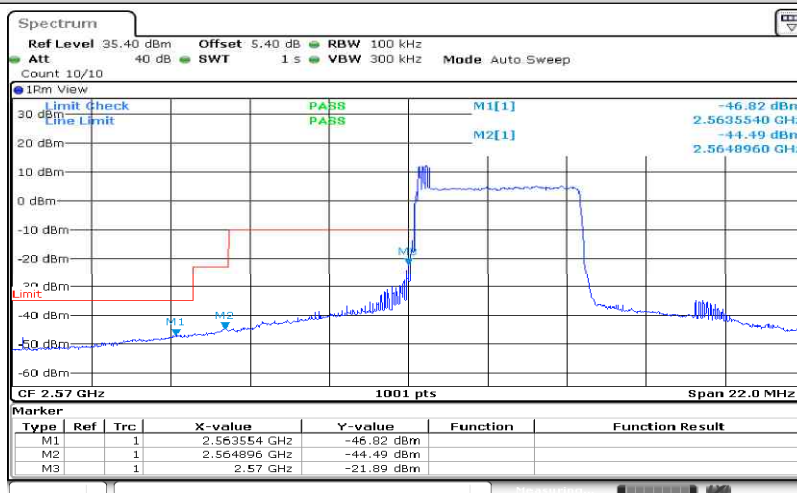


Band38-5MHz-16QAM-37775-1RB#0



Date: 11 JUN 2020 13:51:28

Band38-5MHz-16QAM-37775-25RB#0



Date: 11 JUN 2020 13:54:39



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

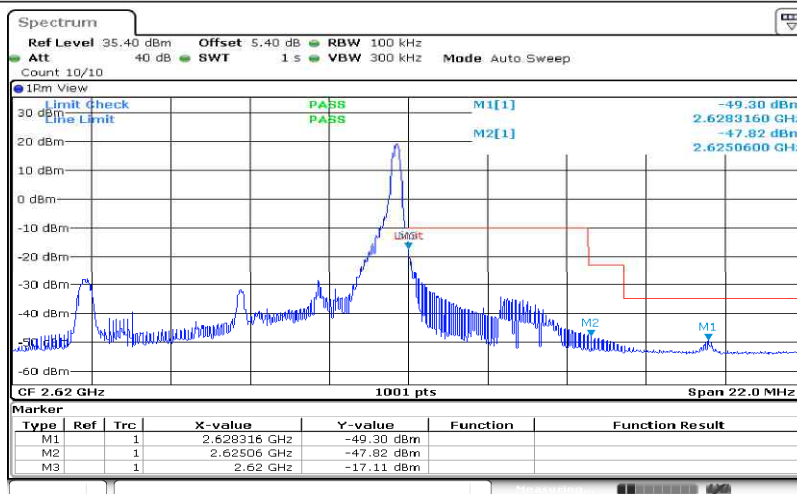
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

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

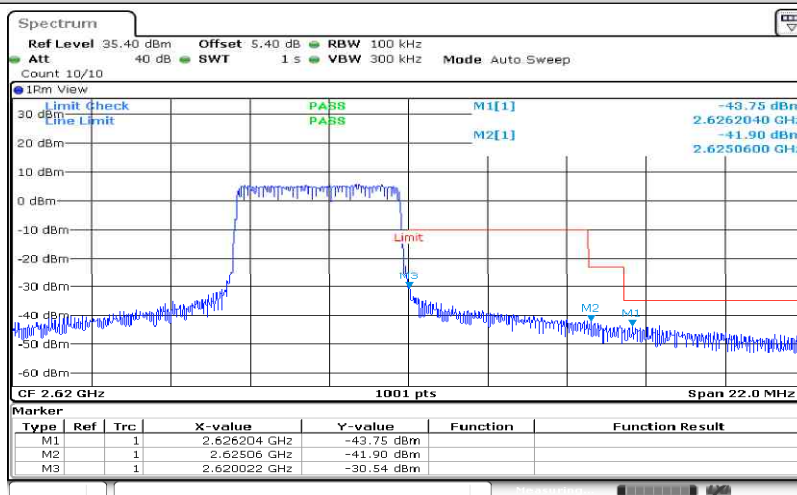
Member of the SGS Group (SGS SA)



Band38-5MHz-16QAM-38225-1RB#24



Band38-5MHz-16QAM-38225-25RB#0

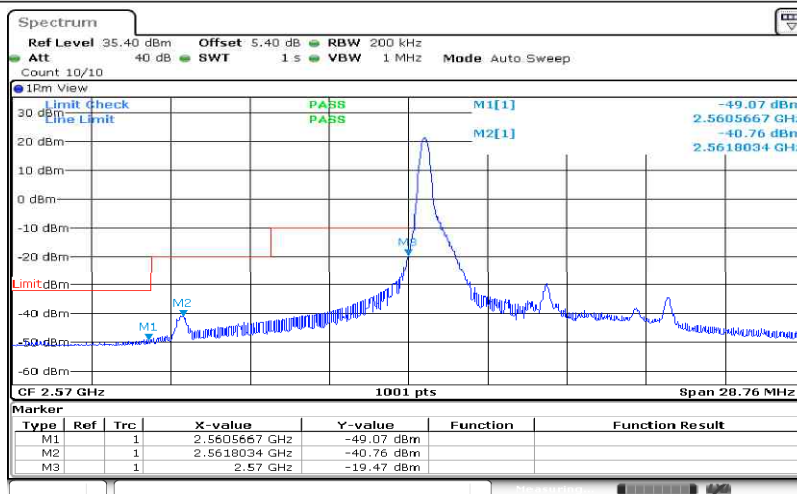


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

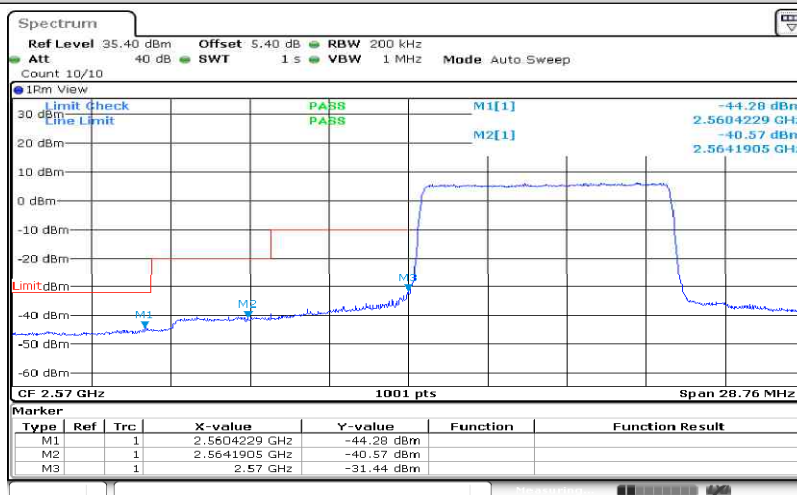
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band38-10MHz-QPSK-37800-1RB#0



Band38-10MHz-QPSK-37800-50RB#0



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

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

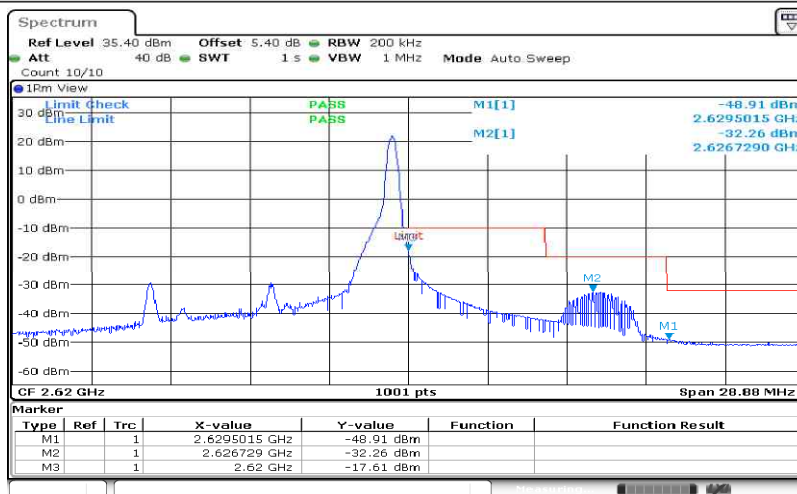
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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

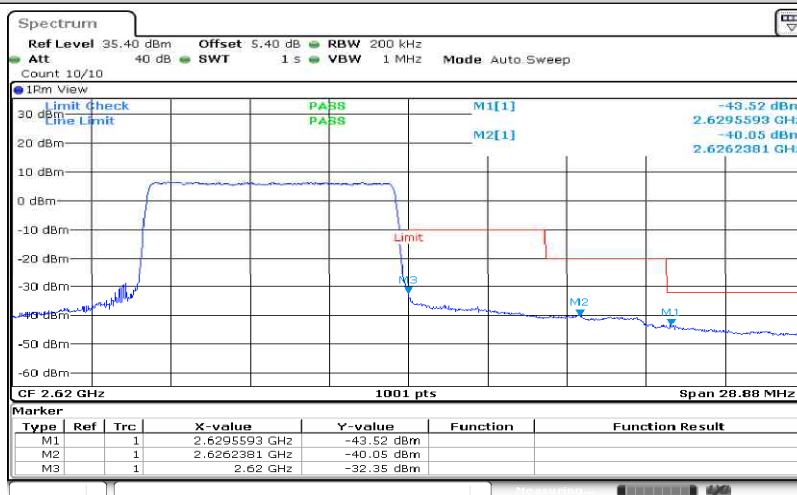
Member of the SGS Group (SGS SA)



Band38-10MHz-QPSK-38200-1RB#49



Band38-10MHz-QPSK-38200-50RB#0



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

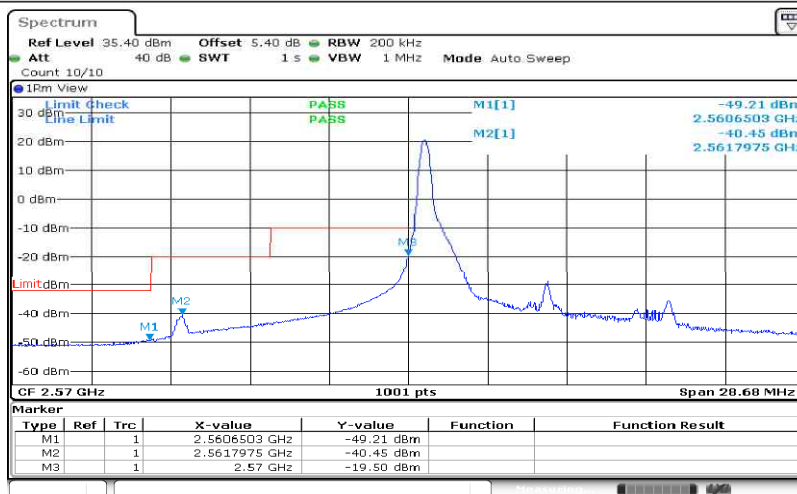
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

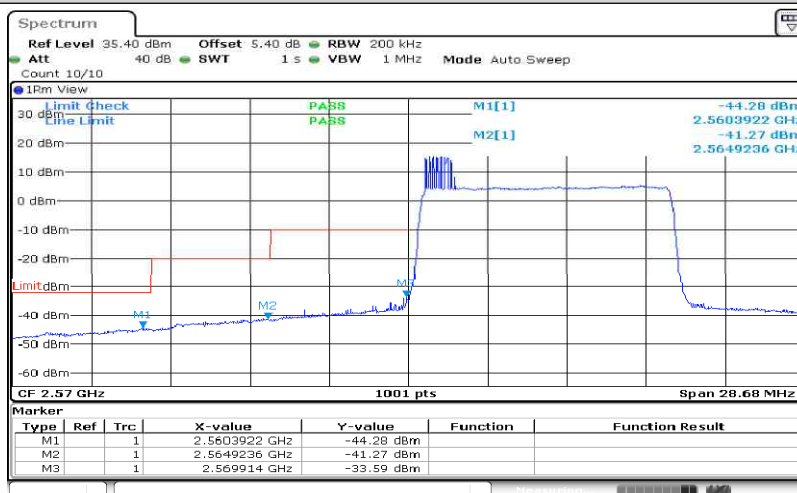


Band38-10MHz-16QAM-37800-1RB#0



Date: 11 JUN 2020 13:56:36

Band38-10MHz-16QAM-37800-50RB#0



Date: 11 JUN 2020 13:58:44



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

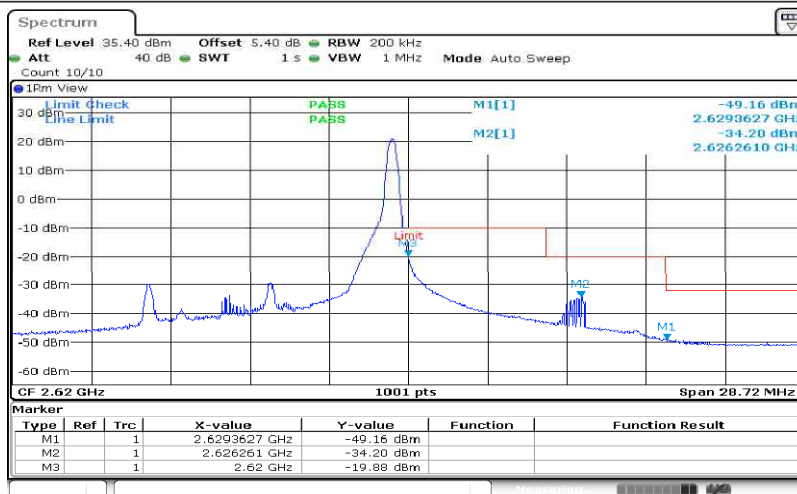
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

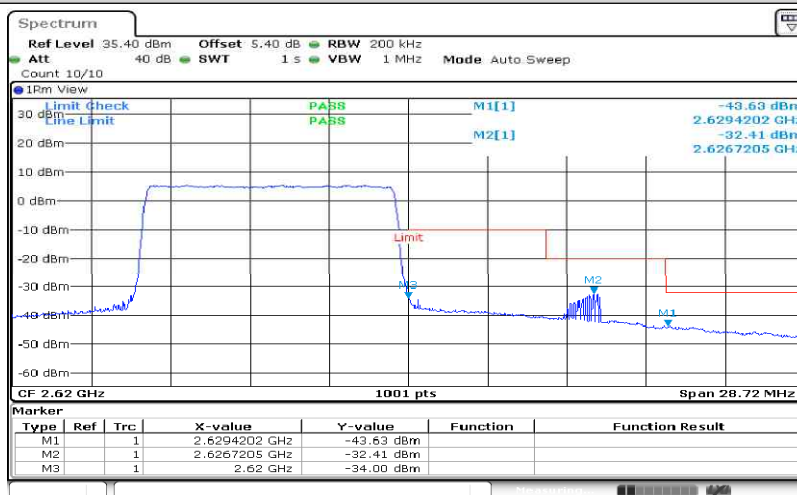
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-10MHz-16QAM-38200-1RB#49



Band38-10MHz-16QAM-38200-50RB#0

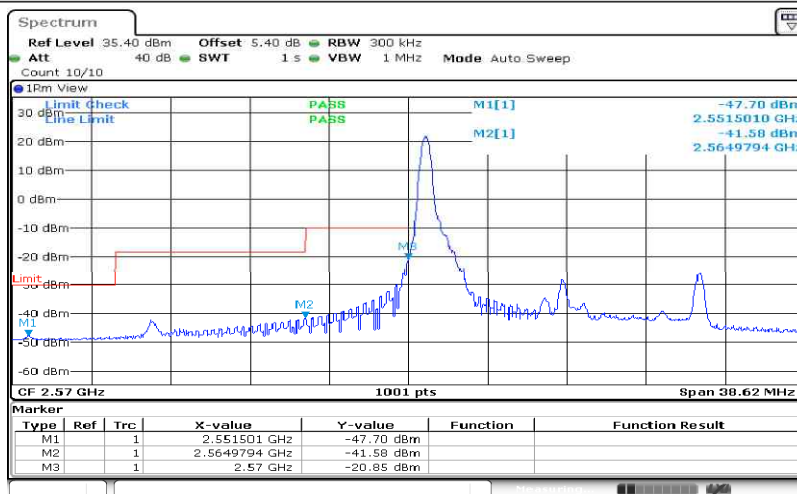


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

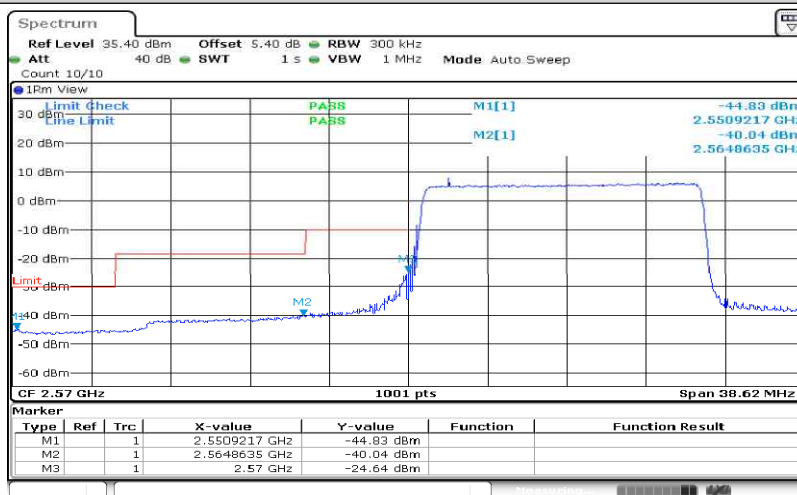
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band38-15MHz-QPSK-37825-1RB#0



Band38-15MHz-QPSK-37825-75RB#0



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

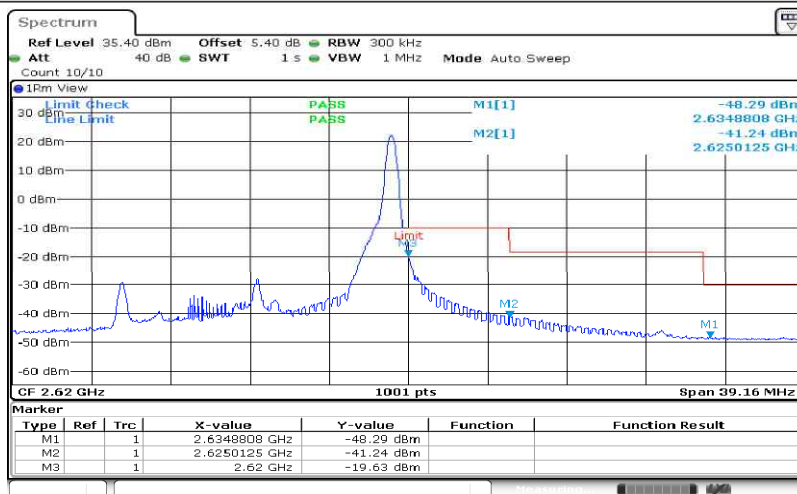
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

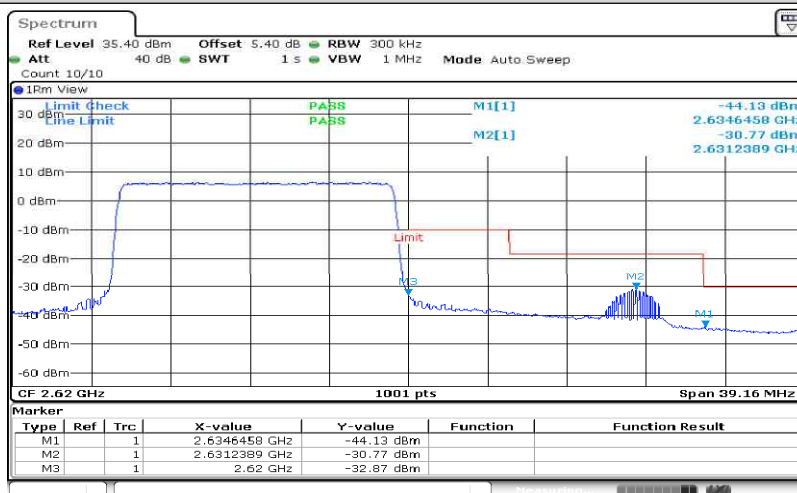
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-15MHz-QPSK-38175-1RB#74



Band38-15MHz-QPSK-38175-75RB#0

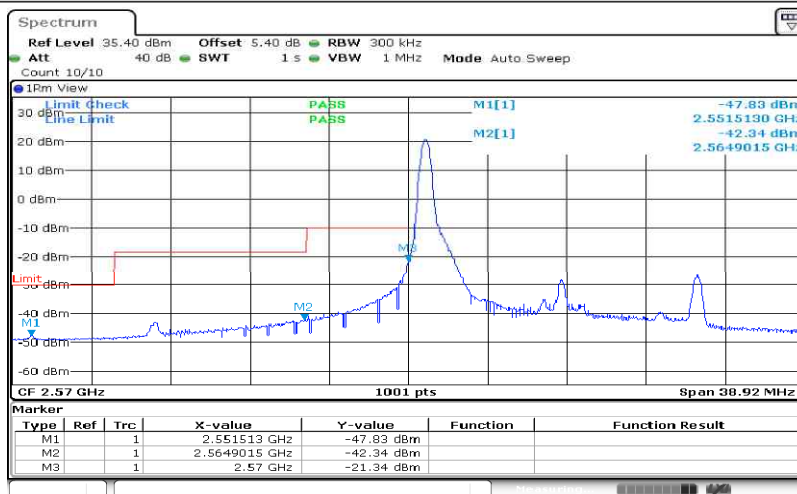


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

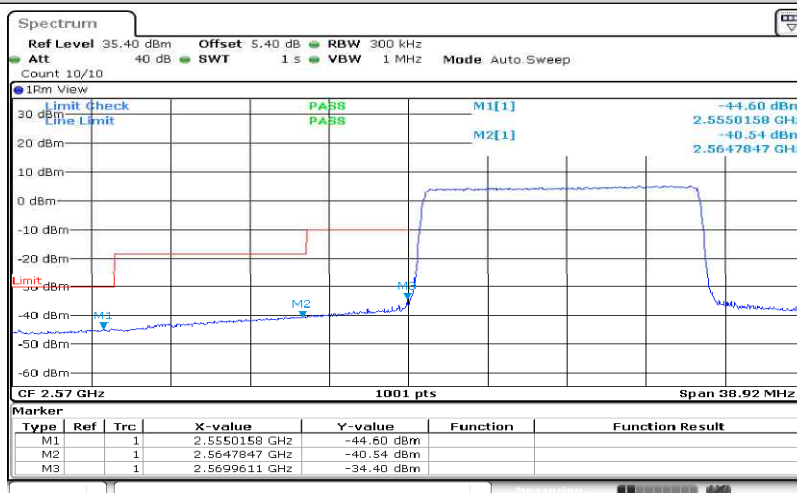


Band38-15MHz-16QAM-37825-1RB#0



Date: 11 JUN 2020 14:00:16

Band38-15MHz-16QAM-37825-75RB#0



Date: 11 JUN 2020 14:01:52

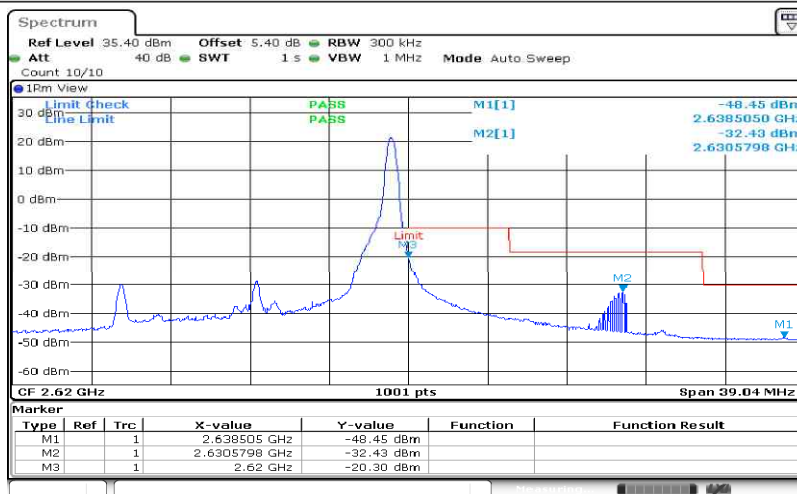


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

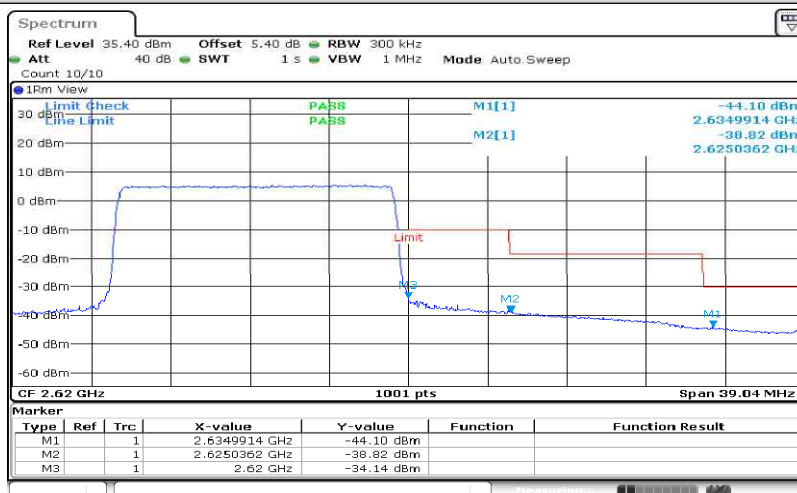
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



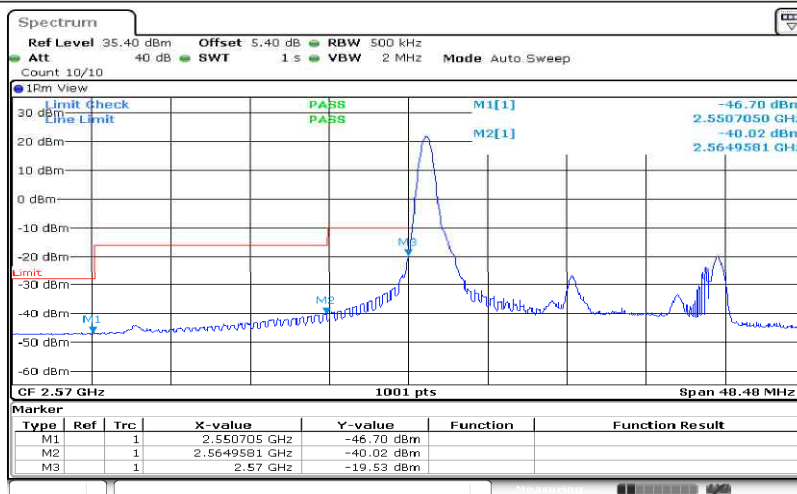
Band38-15MHz-16QAM-38175-1RB#74



Band38-15MHz-16QAM-38175-75RB#0

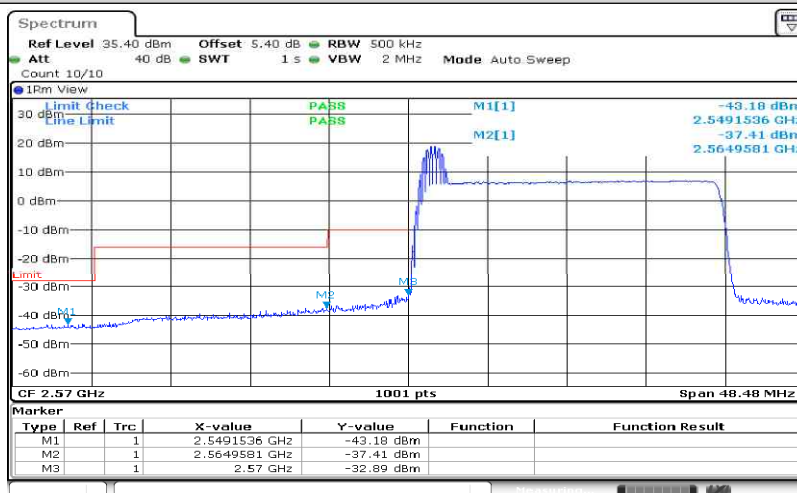


Band38-20MHz-QPSK-37850-1RB#0



Date: 11 JUN 2020 14:03:02

Band38-20MHz-QPSK-37850-100RB#0



Date: 11.JUN.2020 14:04:38



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

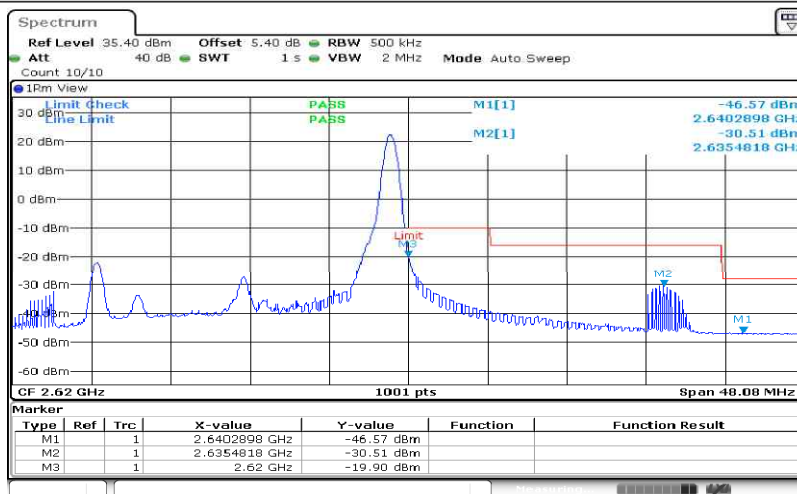
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for 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 contract from their mutual obligations and liabilities and the transmission of this document does not constitute an offer or a contract, 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 the following information is requested: in the event of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com.

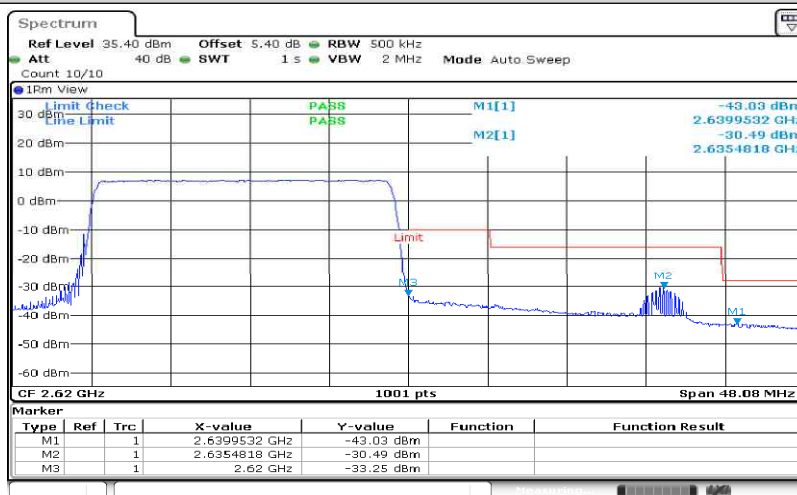
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-QPSK-38150-1RB#99



Band38-20MHz-QPSK-38150-100RB#0



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

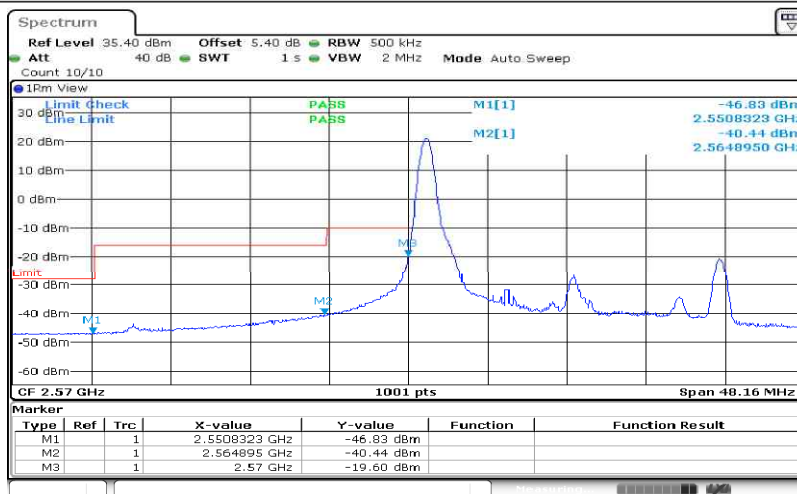
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

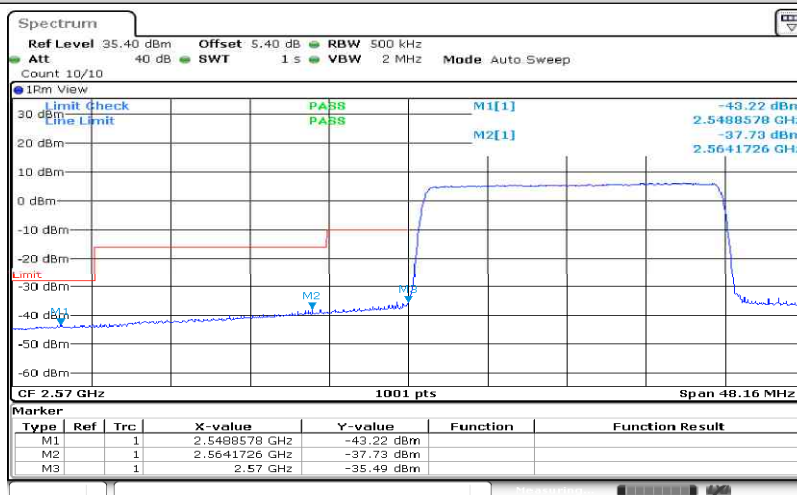
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-16QAM-37850-1RB#0



Band38-20MHz-16QAM-37850-100RB#0



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

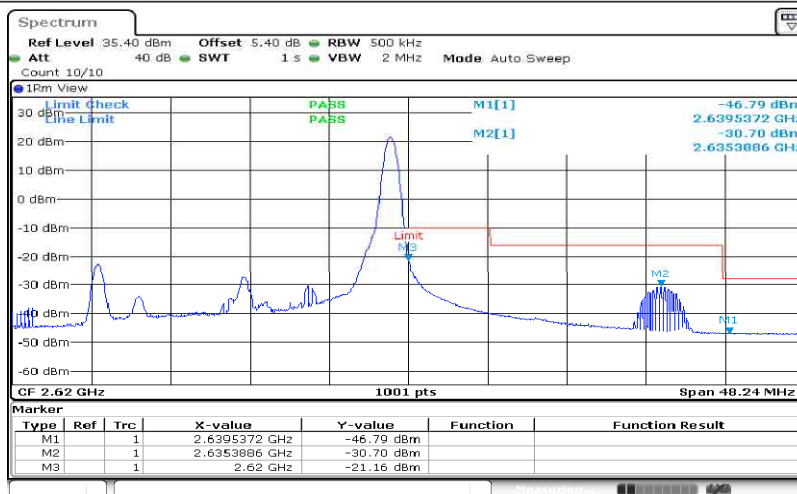
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

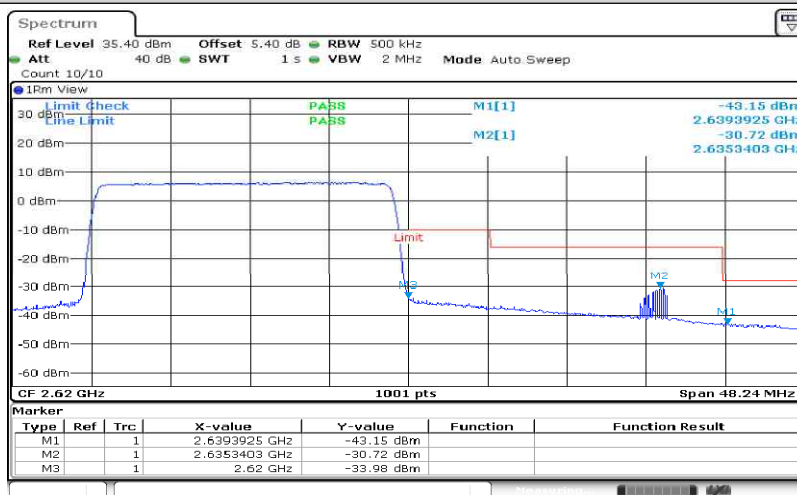
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-16QAM-38150-1RB#99



Band38-20MHz-16QAM-38150-100RB#0



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

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

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

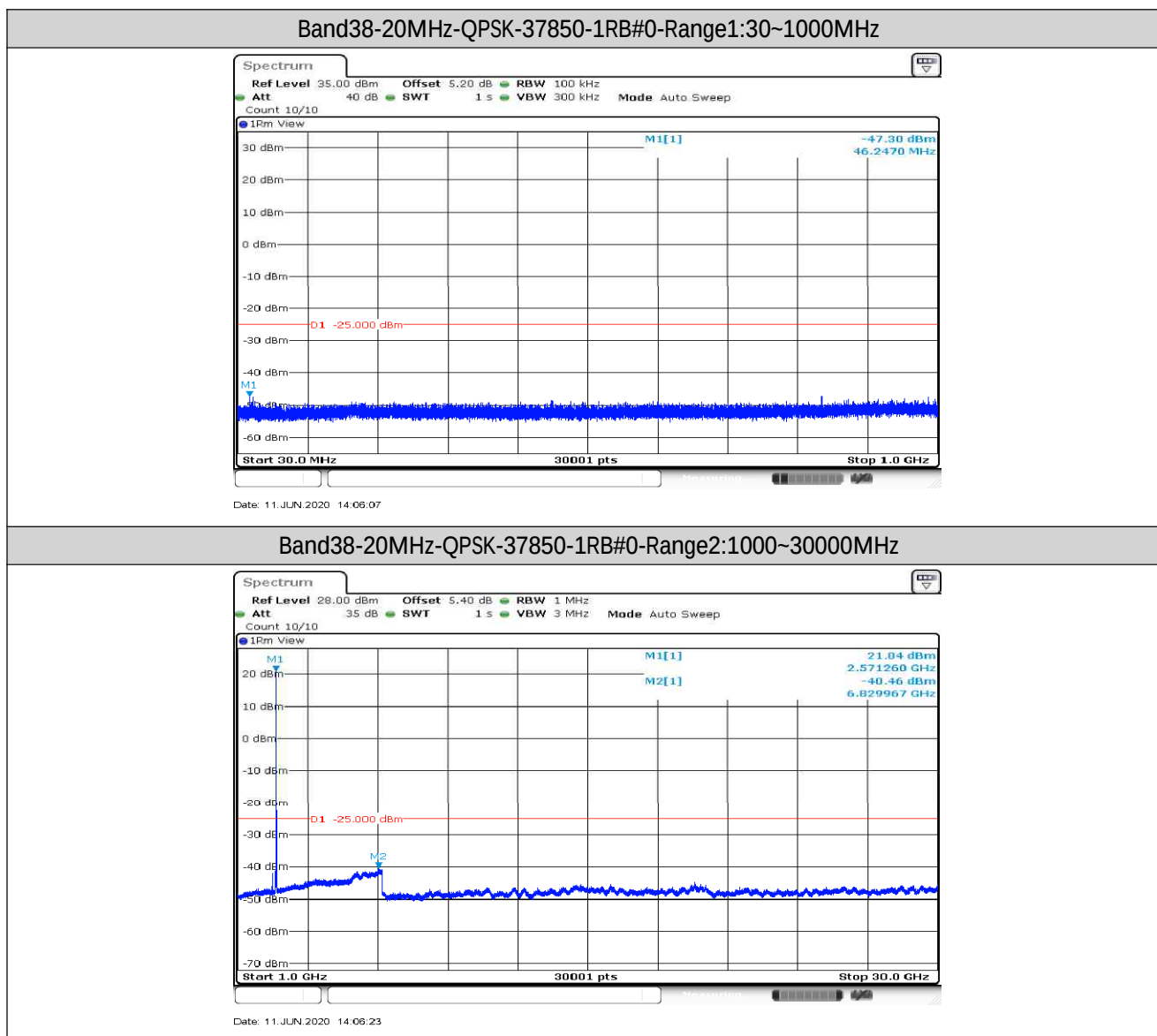
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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 = $k * (Span / RBW)$ " 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

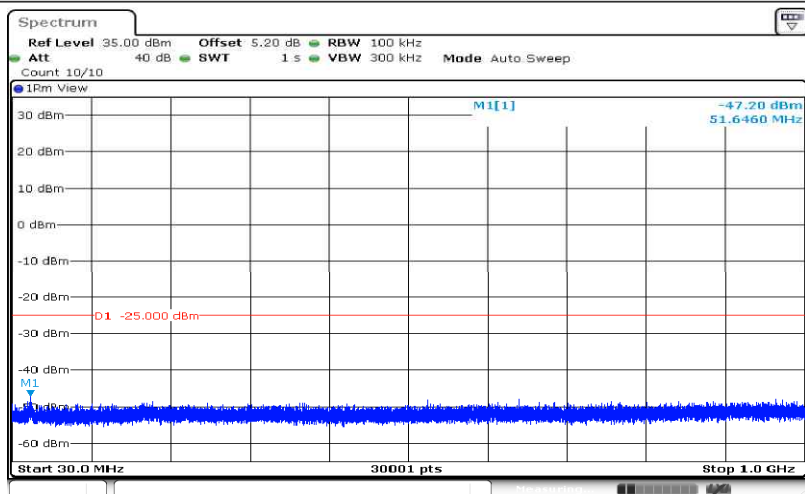


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

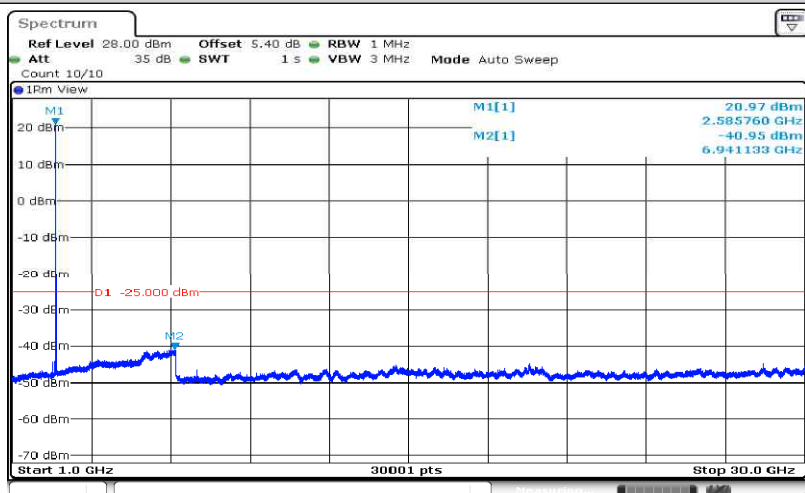


Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



Date: 11 JUN 2020 14:07:17

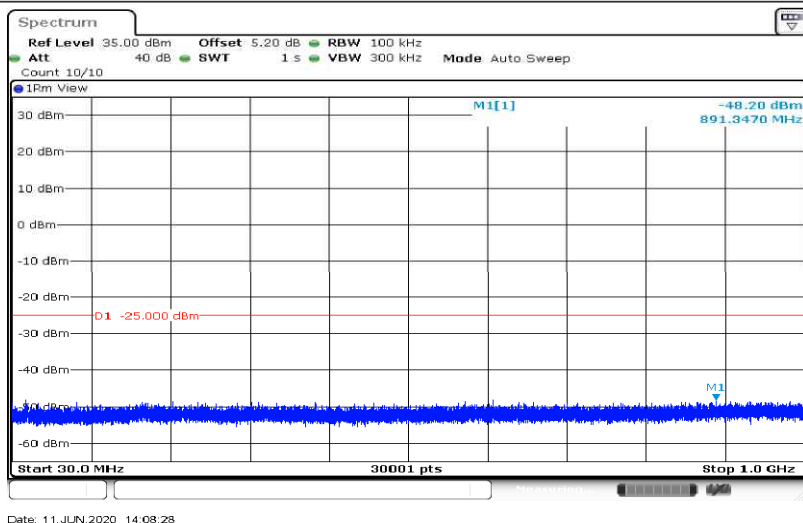
Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



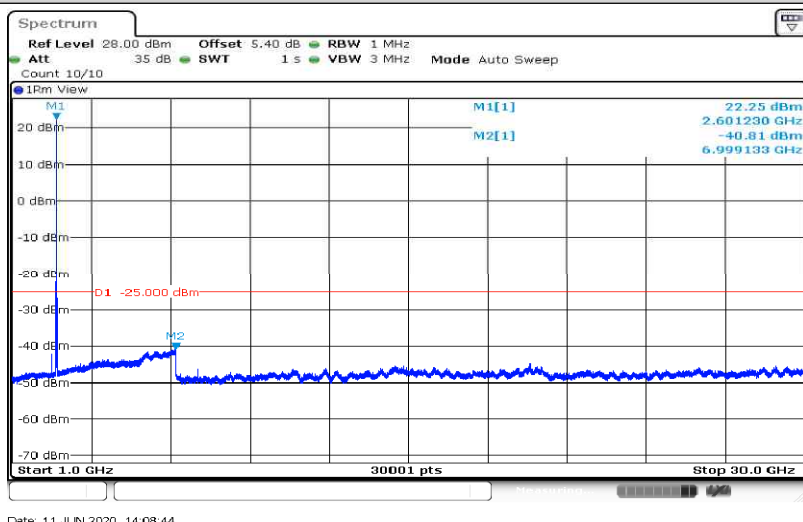
Date: 11 JUN 2020 14:07:34



Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz

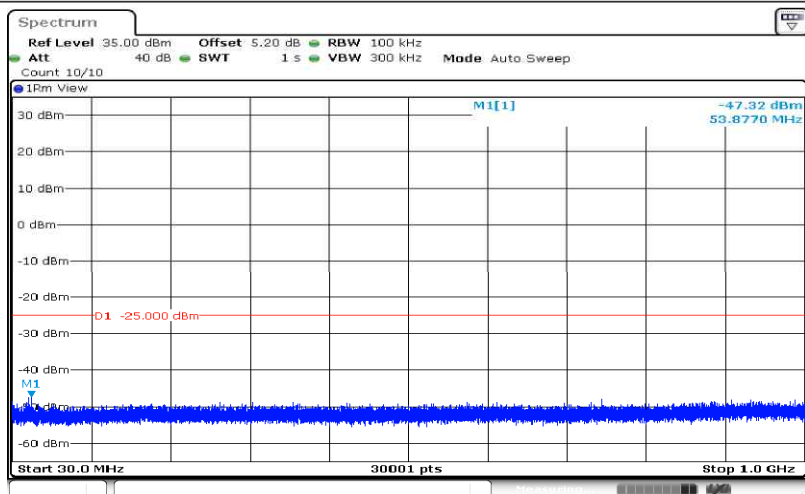


Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



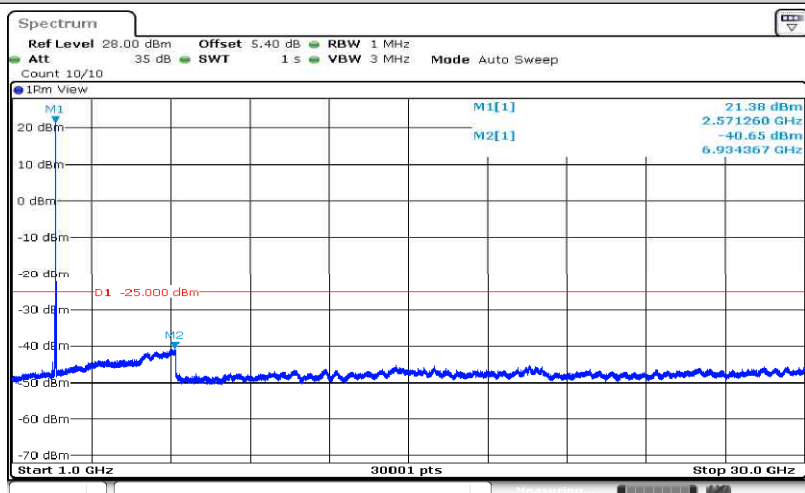


Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



Date: 11 JUN 2020 14:06:42

Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz

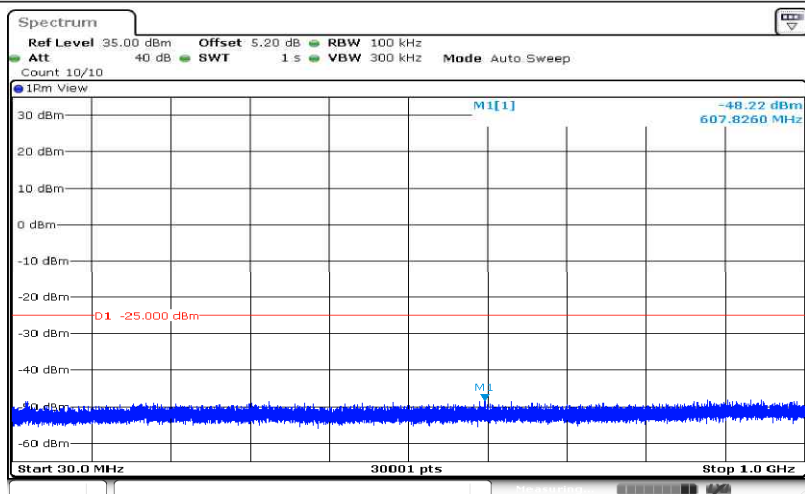


Date: 11 JUN 2020 14:06:58



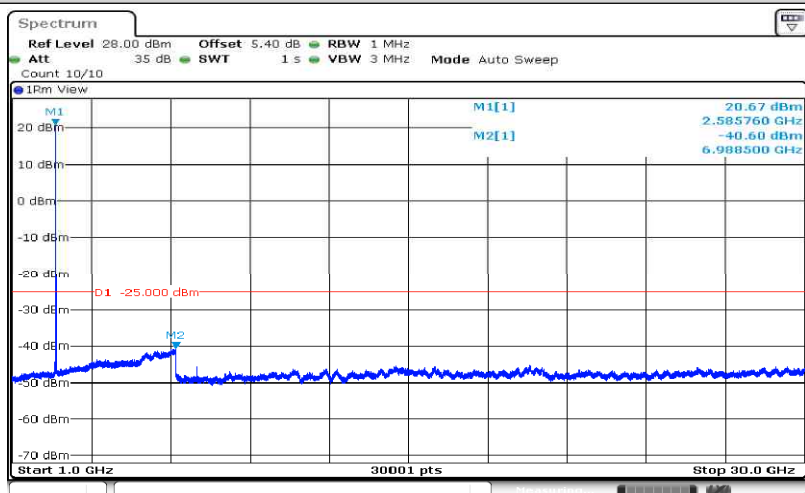


Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Date: 11 JUN 2020 14:07:52

Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz

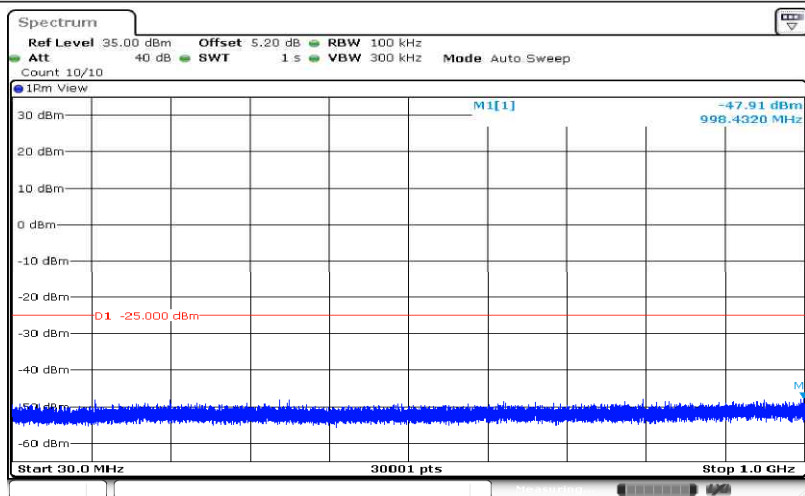


Date: 11 JUN 2020 14:08:09

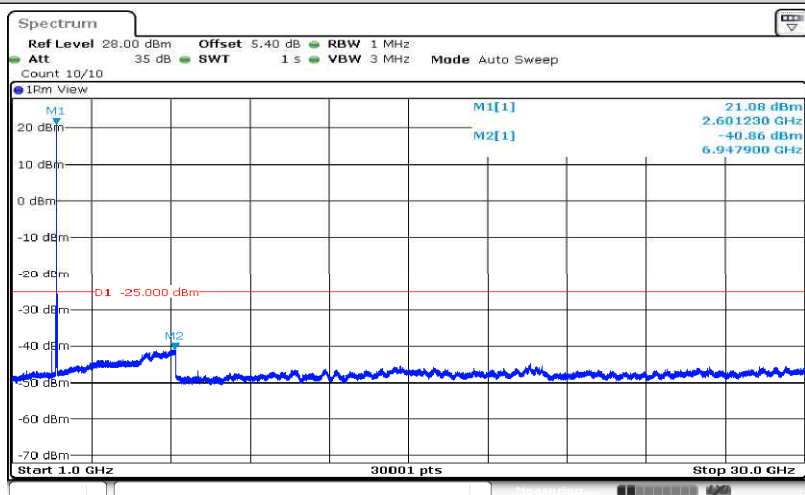




Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



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

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

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

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



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4980	-71.75	-25.00	46.75	Vertical
115.8493	-64.49	-25.00	39.49	Vertical
615.1818	-63.64	-25.00	38.64	Vertical
1746.1492	-42.41	-25.00	17.41	Vertical
7358.1453	-55.57	-25.00	30.57	Vertical
17994.9998	-38.71	-25.00	13.71	Vertical
42.7076	-63.76	-25.00	38.76	Horizontal
245.2538	-68.03	-25.00	43.03	Horizontal
526.1798	-65.20	-25.00	40.20	Horizontal
2036.2072	-42.56	-25.00	17.56	Horizontal
7482.1494	-56.08	-25.00	31.08	Horizontal
16391.9464	-42.59	-25.00	17.59	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4010	-71.57	-25.00	46.57	Vertical
113.2787	-63.99	-25.00	38.99	Vertical
433.9282	-67.22	-25.00	42.22	Vertical
2979.9960	-38.35	-25.00	13.35	Vertical
7497.1499	-55.61	-25.00	30.61	Vertical
17999.0000	-38.30	-25.00	13.30	Vertical
44.3567	-63.41	-25.00	38.41	Horizontal
242.1496	-67.57	-25.00	42.57	Horizontal
608.8279	-63.29	-25.00	38.29	Horizontal
3000.0000	-38.22	-25.00	13.22	Horizontal
7351.1450	-56.08	-25.00	31.08	Horizontal
16395.9465	-42.18	-25.00	17.18	Horizontal



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

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

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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.5579	-72.93	-25.00	47.93	Vertical
110.4170	-64.54	-25.00	39.54	Vertical
465.6488	-67.10	-25.00	42.10	Vertical
2983.9968	-38.43	-25.00	13.43	Vertical
7357.1452	-55.59	-25.00	30.59	Vertical
17995.9999	-38.66	-25.00	13.66	Vertical
44.1142	-64.18	-25.00	39.18	Horizontal
234.1952	-68.36	-25.00	43.36	Horizontal
726.3493	-62.13	-25.00	37.13	Horizontal
2946.3893	-38.37	-25.00	13.37	Horizontal
7456.1485	-56.18	-25.00	31.18	Horizontal
16399.9467	-42.26	-25.00	17.26	Horizontal

Remark:

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





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth h	Modulation	Channel l	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-6.60	-0.002558	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-4.10	-0.001589	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-4.90	-0.001899	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-6.20	-0.002389	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-12.60	-0.004855	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-6.00	-0.002299	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	0.50	0.000194	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-4.10	-0.001589	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-10.70	-0.004123	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-10.80	-0.004162	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-8.10	-0.003121	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-5.00	-0.001916	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-10.80	-0.004138	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-6.00	-0.002326	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-7.00	-0.002713	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	1.80	0.000698	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	2.10	0.000814	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	2.30	0.000891	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-7.70	-0.002967	±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



Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-4.70	-0.001811	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-3.30	-0.001272	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-7.80	-0.003006	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-13.20	-0.005087	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-10.00	-0.003854	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-4.90	-0.001877	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-3.50	-0.001341	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	0.30	0.000115	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-1.90	-0.000728	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	0.10	0.000038	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-9.70	-0.003716	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-5.30	-0.002054	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-3.90	-0.001512	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	1.80	0.000698	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	0.40	0.000155	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-6.90	-0.002674	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-6.40	-0.002481	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-8.70	-0.003353	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-9.10	-0.003507	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-10.10	-0.003892	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-6.30	-0.002428	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-12.60	-0.004855	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-9.10	-0.003507	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-1.80	-0.000690	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-9.10	-0.003487	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-3.80	-0.001456	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-9.80	-0.003755	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-4.50	-0.001724	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-2.90	-0.001111	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-7.30	-0.002797	±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 (CMAA) Testing 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



Band38	20MHz	16QAM	38150	100RB#0	NV	50	-1.60	-0.000613	±2.5	PASS
--------	-------	-------	-------	---------	----	----	-------	-----------	------	------

