



Appendix B

E-UTRA Band 38



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Center E-UTRA 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).....	11
2.1. TEST RESULT.....	11
2.2. TEST PLOTS.....	11
3. MODULATION CHARACTERISTICS.....	16
3.1. TEST MODE = LTE /TM1 20MHZ.....	16
3.1.1. TEST CHANNEL = MCH.....	16
3.2. TEST MODE = LTE /TM2 20MHZ.....	17
3.2.1. TEST CHANNEL = MCH.....	17
3.3. TEST MODE = LTE /TM3 20MHZ.....	18
3.3.1. TEST CHANNEL = MCH.....	18
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	19
4.1. TEST RESULT.....	19
4.2. TEST PLOTS.....	20
5. BAND EDGE COMPLIANCE.....	38
5.1. TEST PLOTS.....	38
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	62
6.1. TEST PLOTS.....	62
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	71
7.1. TEST MODE =LTE/TM1 20MHZ.....	71
7.1.1. TEST CHANNEL = LCH.....	71
7.1.2. TEST CHANNEL = MCH.....	71
7.1.3. TEST CHANNEL = HCH.....	72
8. FREQUENCY STABILITY.....	73
8.1. FREQUENCY VS VOLTAGE.....	73
8.2. FREQUENCY VS TEMPERATURE.....	73



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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted	EIRP	Limit	Verdict
					Power(dBm)	(dBm)	(dBm)	
Band38	5MHz	QPSK	37775	1RB#0	22.22	21.32	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.24	21.34	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.14	21.24	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.18	20.28	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.24	20.34	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.23	20.33	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.19	20.29	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.21	21.31	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.09	21.19	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.12	21.22	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.14	20.24	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.2	20.30	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.12	20.22	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.15	20.25	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.09	21.19	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.02	21.12	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.13	21.23	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.12	20.22	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.11	20.21	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.18	20.28	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.11	20.21	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.37	20.47	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.39	20.49	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.5	20.60	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.27	19.37	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.23	19.33	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.25	19.35	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	5MHz	16QAM	37775	25RB#0	20.16	19.26	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.46	20.56	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.38	20.48	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.36	20.46	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.16	19.26	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.17	19.27	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.23	19.33	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.15	19.25	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.38	20.48	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.35	20.45	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.31	20.41	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.21	19.31	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.14	19.24	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.13	19.23	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.07	19.17	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.35	21.45	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.43	21.53	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.31	20.41	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.34	20.44	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.32	20.42	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.33	20.43	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.37	21.47	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.3	21.40	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.35	20.45	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.3	20.40	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.27	20.37	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.3	20.40	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.36	21.46	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.19	21.29	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.25	21.35	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.21	20.31	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#12	21.27	20.37	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.26	20.36	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.25	20.35	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.5	19.60	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.59	19.69	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.66	19.76	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.45	18.55	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	19.44	18.54	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.44	18.54	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	19.43	18.53	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	20.61	19.71	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	20.48	19.58	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.55	19.65	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	19.34	18.44	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.36	18.46	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.4	18.50	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.34	18.44	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.56	19.66	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.56	19.66	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.41	19.51	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.33	18.43	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.35	18.45	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.36	18.46	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.31	18.41	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.59	20.69	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.67	20.77	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.5	20.60	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.26	19.36	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.29	19.39	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.27	19.37	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.36	19.46	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.5	20.60	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.64	20.74	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	16QAM	38000	1RB#0	21.54	20.64	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.29	19.39	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.23	19.33	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.22	19.32	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.33	19.43	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.49	20.59	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.45	20.55	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.62	20.72	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.21	19.31	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.21	19.31	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.17	19.27	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.28	19.38	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.22	21.32	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.27	21.37	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.14	21.24	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.28	20.38	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.25	20.35	33.00	PASS
Band38	15MHz	QPSK	37825	36RB#39	21.26	20.36	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.24	20.34	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.18	21.28	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.24	21.34	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.09	21.19	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.22	20.32	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.29	20.39	33.00	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.24	20.34	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.22	20.32	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.09	21.19	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.16	21.26	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.21	21.31	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.14	20.24	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.19	20.29	33.00	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.21	20.31	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.17	20.27	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 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	64QAM	37825	1RB#38	20.52	19.62	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.38	19.48	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.46	19.56	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#39	19.21	18.31	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#0	19.31	18.41	33.00	PASS
Band38	15MHz	64QAM	37825	36RB#18	19.34	18.44	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.35	18.45	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.35	19.45	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.54	19.64	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.44	19.54	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#39	19.23	18.33	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#0	19.2	18.30	33.00	PASS
Band38	15MHz	64QAM	38000	36RB#18	19.25	18.35	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	19.29	18.39	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.36	19.46	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.44	19.54	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.27	19.37	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.19	18.29	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.16	18.26	33.00	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.22	18.32	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.23	18.33	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.49	20.59	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.53	20.63	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.4	20.50	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#18	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#0	20.29	19.39	33.00	PASS
Band38	15MHz	16QAM	37825	36RB#39	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.24	19.34	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.36	20.46	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.49	20.59	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.45	20.55	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.23	19.33	33.00	PASS
Band38	15MHz	16QAM	38000	36RB#18	20.28	19.38	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	15MHz	16QAM	38000	36RB#39	20.2	19.30	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.27	19.37	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.4	20.50	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.52	20.62	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.37	20.47	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.18	19.28	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.2	19.30	33.00	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.13	19.23	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.19	19.29	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.05	21.15	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	21.93	21.03	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.29	21.39	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.29	20.39	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.22	20.32	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.25	20.35	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.31	21.41	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.04	21.14	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	21.9	21.00	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.27	20.37	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.16	20.26	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.23	20.33	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.87	20.97	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.01	21.11	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.26	21.36	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.24	20.34	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.22	20.32	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.14	20.24	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.19	20.29	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.31	19.41	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.18	19.28	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.55	19.65	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.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	64QAM	37850	50RB#0	19.32	18.42	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	19.34	18.44	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	19.44	18.54	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.31	18.41	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.54	19.64	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.16	19.26	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.28	19.38	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.27	18.37	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	19.35	18.45	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.31	18.41	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.29	18.39	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.48	19.58	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.24	19.34	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.08	19.18	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.23	18.33	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.32	18.42	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.29	18.39	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.26	18.36	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.55	20.65	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.21	20.31	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.31	20.41	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.25	19.35	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.29	19.39	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.33	19.43	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.3	19.40	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.56	20.66	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.17	20.27	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.28	20.38	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.28	19.38	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.22	19.32	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.23	19.33	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.29	19.39	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.15	20.25	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.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#49	21.53	20.63	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.26	20.36	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.25	19.35	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.26	19.36	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.17	19.27	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 [dBi]

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



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

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

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

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

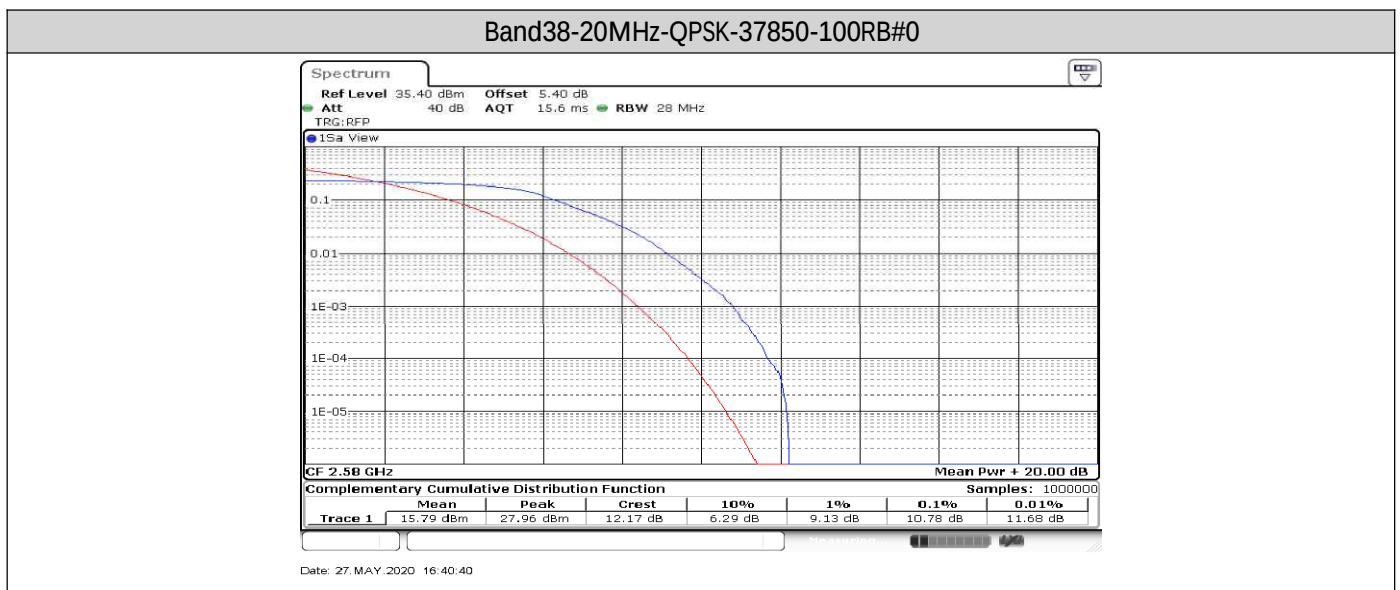


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

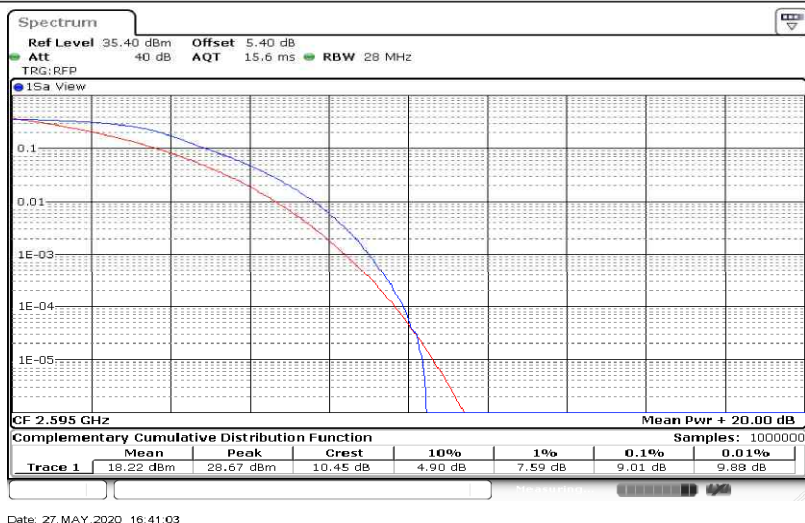
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	10.78	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.01	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	8.87	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	6.49	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.94	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	10.00	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.62	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.86	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.74	13	PASS

2.2. Test Plots

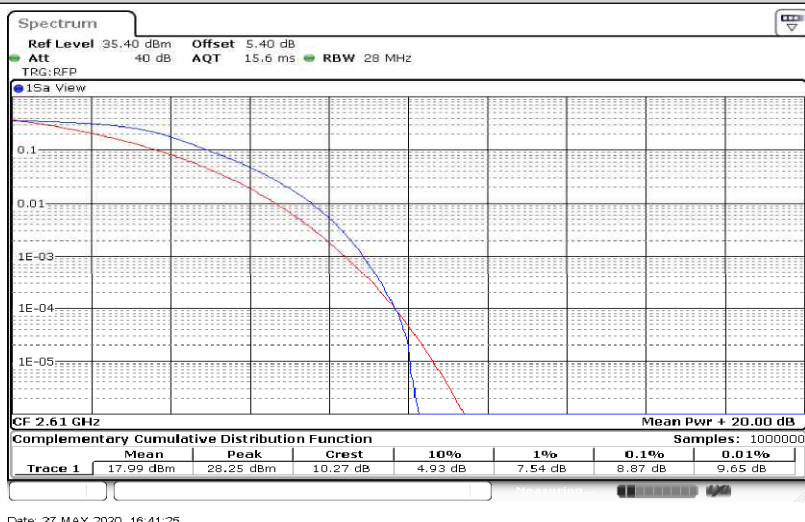




Band38-20MHz-QPSK-38000-100RB#0



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.

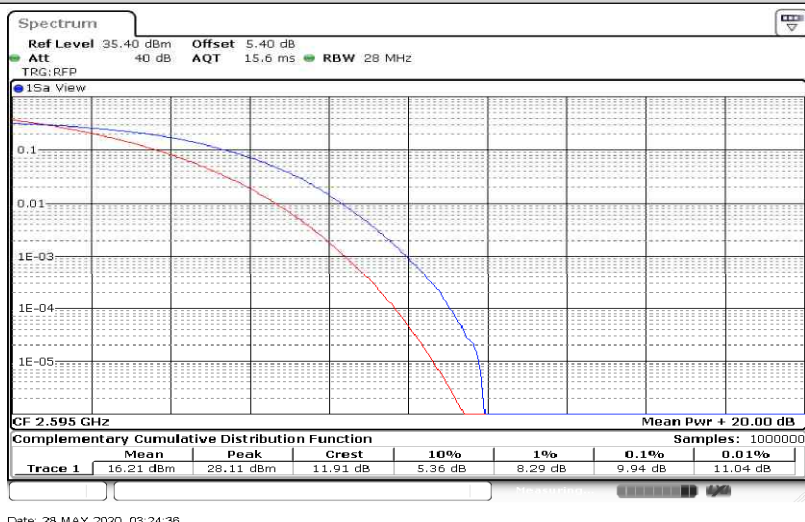
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-64QAM-37850-100RB#0



Band38-20MHz-64QAM-38000-100RB#0

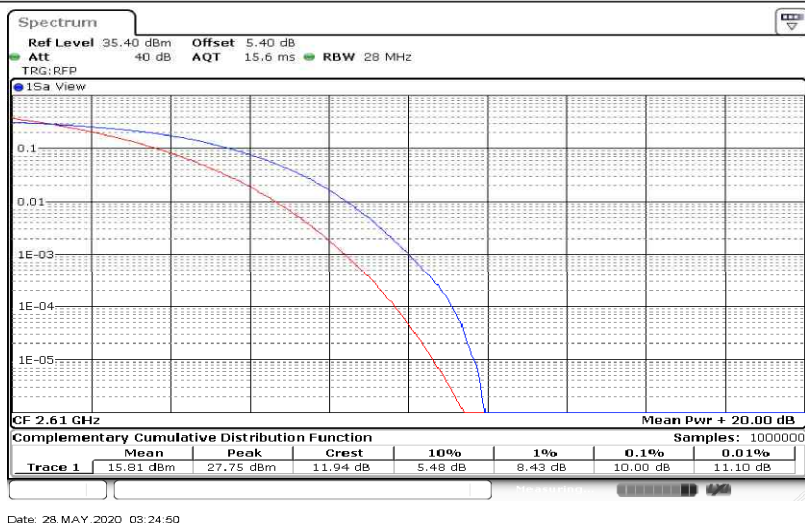


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

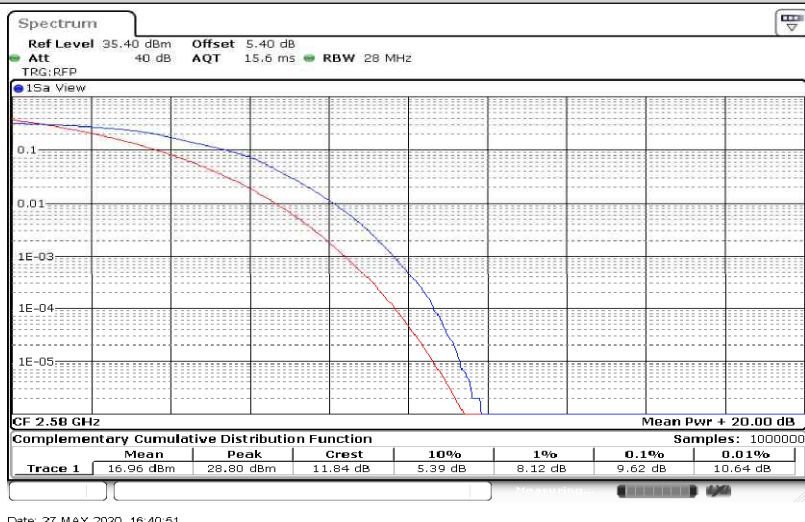
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Band38-20MHz-64QAM-38150-100RB#0



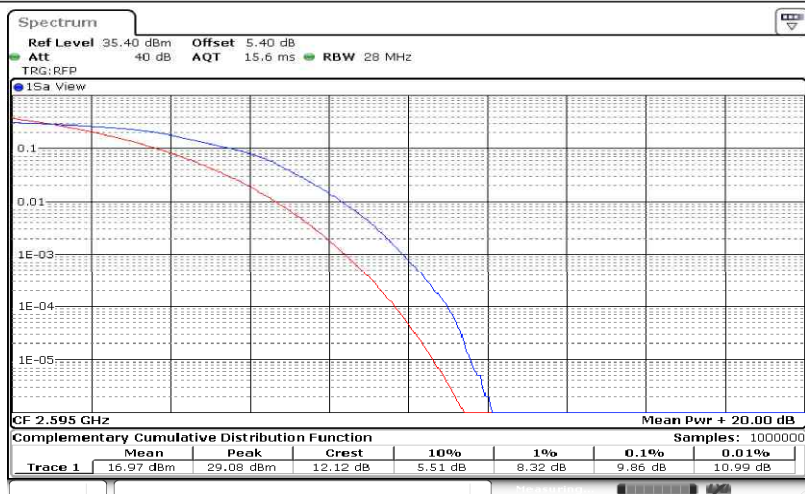
Band38-20MHz-16QAM-37850-100RB#0



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.

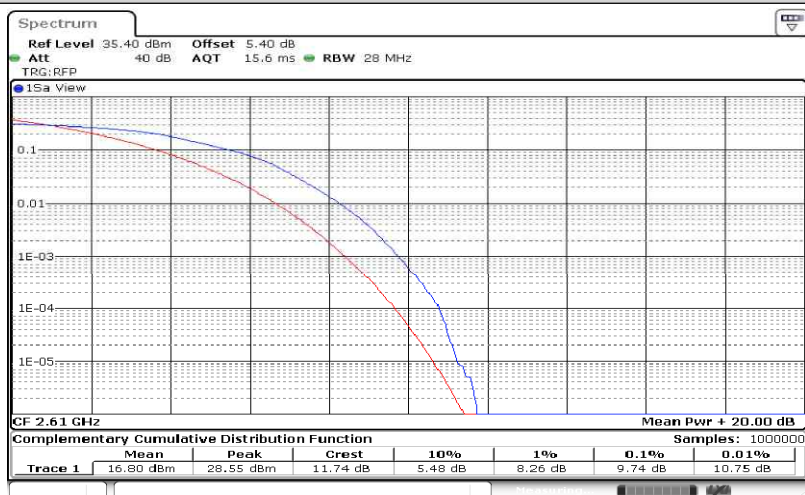


Band38-20MHz-16QAM-38000-100RB#0



Date: 27 MAY 2020 16:41:14

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



Date: 27 MAY 2020 16:41:36

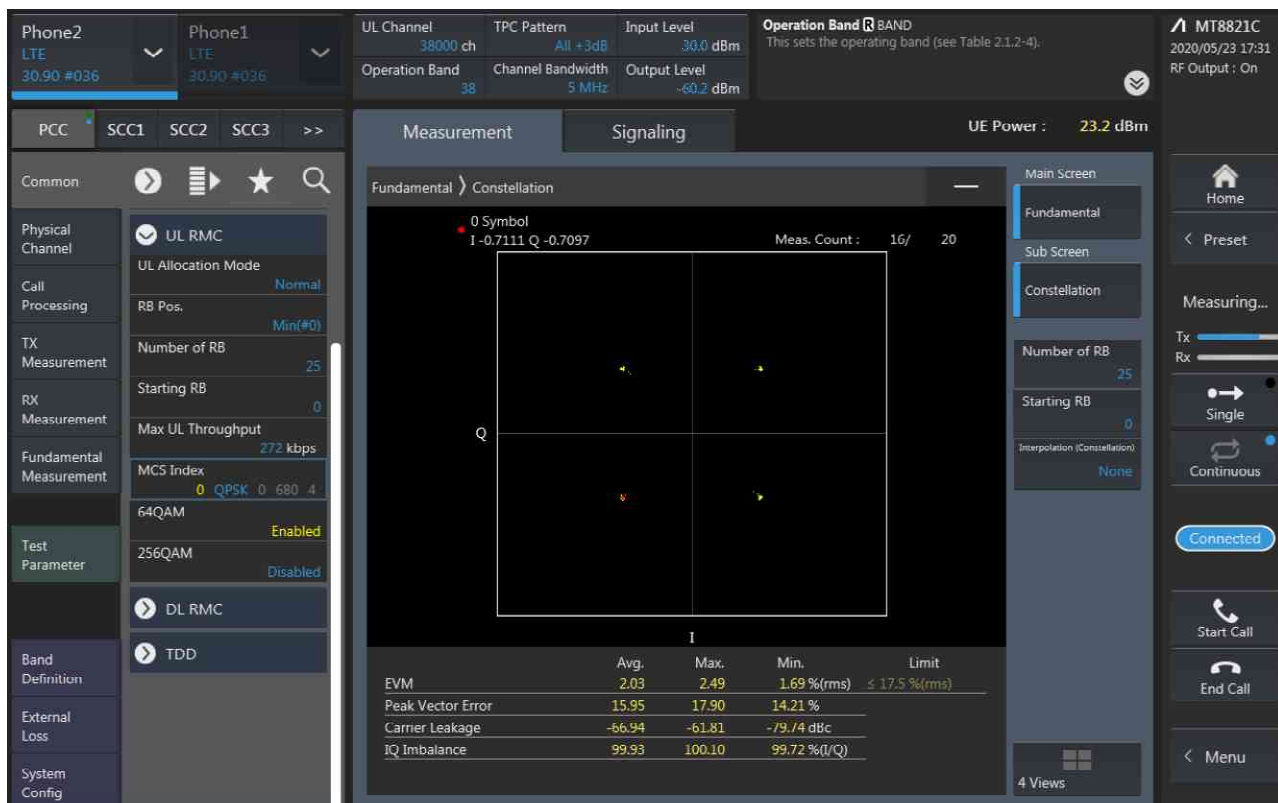




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

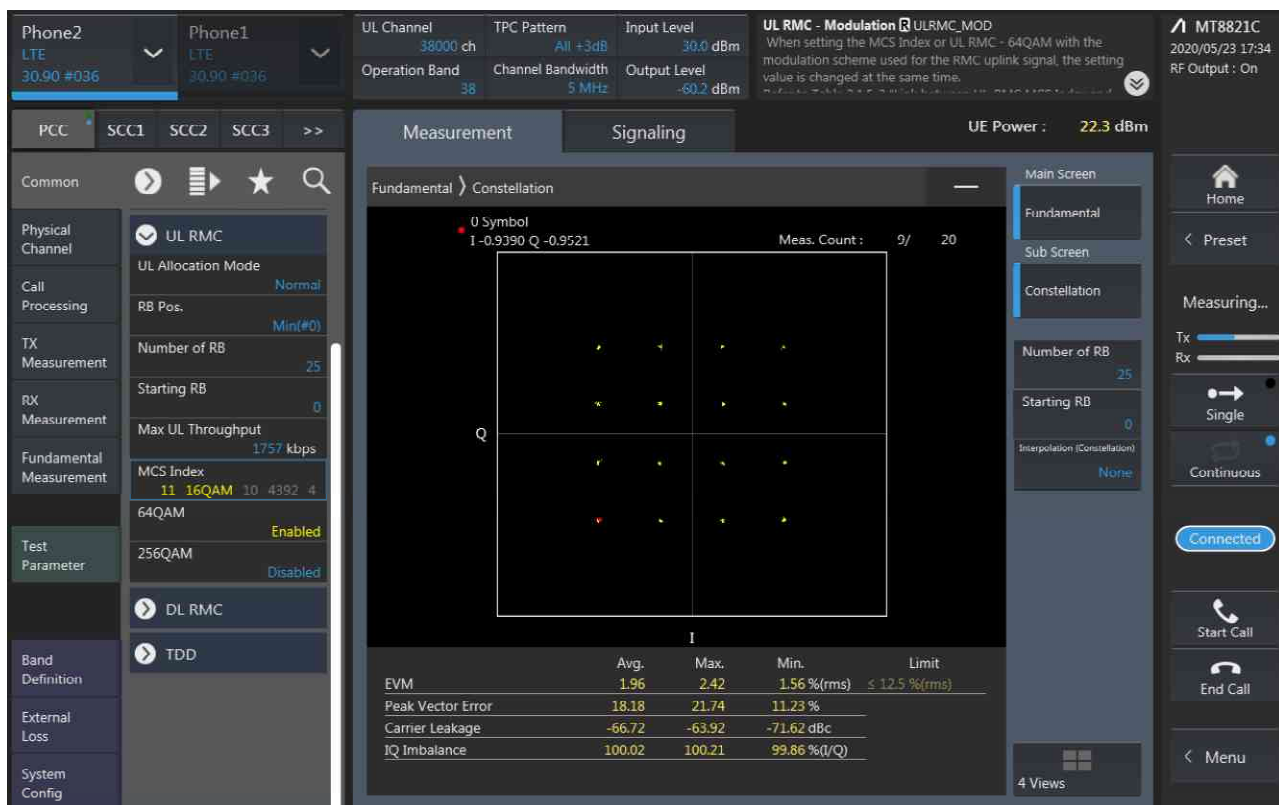
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

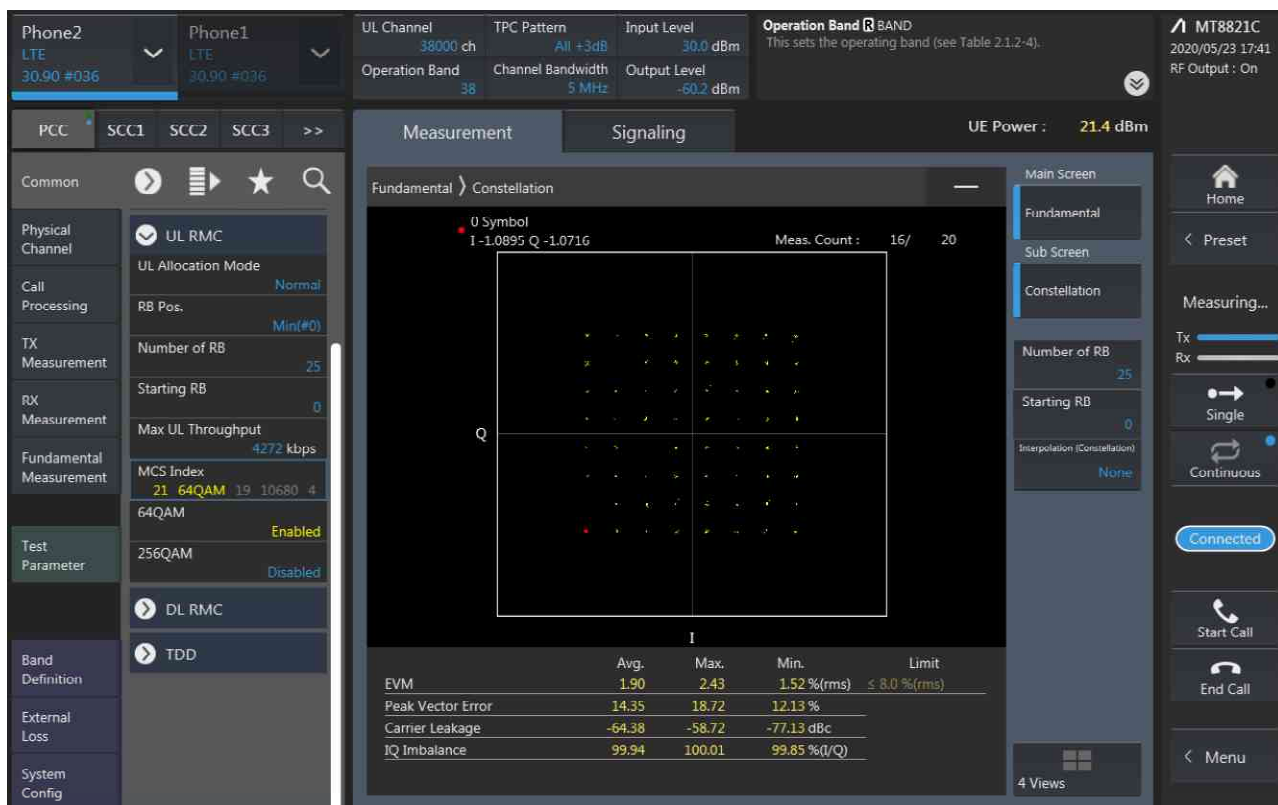
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.466	4.990	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.466	4.860	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.870	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.476	4.920	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.476	4.950	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.466	4.900	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.486	4.850	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.860	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.486	4.850	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.700	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.640	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.540	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.660	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.540	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.931	9.560	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.931	9.640	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.891	9.520	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.487	15.750	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.487	15.660	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.457	15.360	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.427	14.610	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.427	14.670	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.427	14.640	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	15.150	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.457	15.210	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.457	14.820	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.942	19.960	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.942	19.680	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.760	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.902	19.640	PASS



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

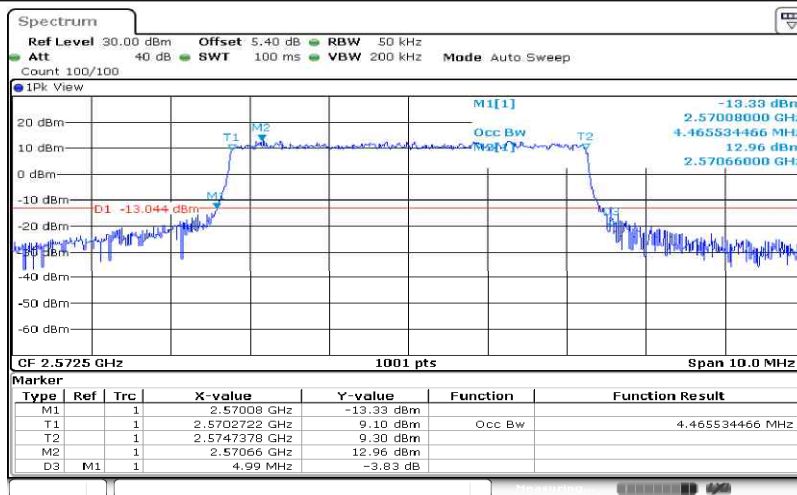
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Band38	20MHz	64QAM	38000	100RB#0	17.942	19.640	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.862	19.600	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	20.040	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.902	19.920	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.280	PASS

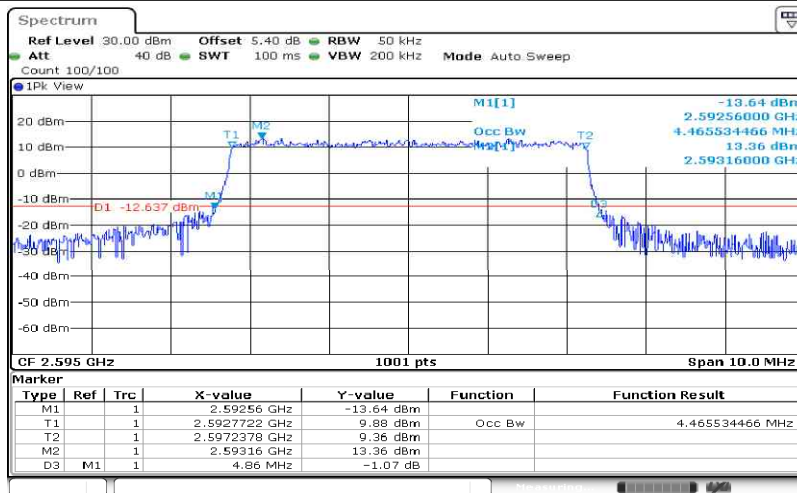
4.2. Test Plots

Band38-5MHz-QPSK-37775-25RB#0-4.466



Date: 27. MAY 2020 16:18:27

Band38-5MHz-QPSK-38000-25RB#0-4.466



Date: 27. MAY 2020 16:19:07



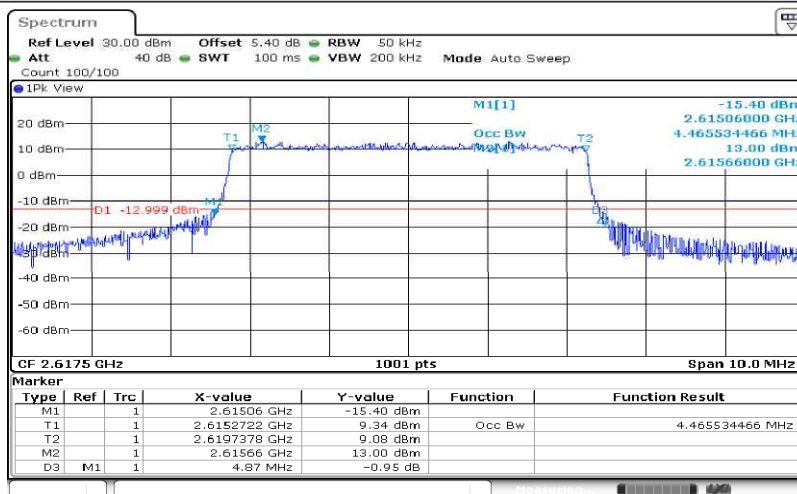
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

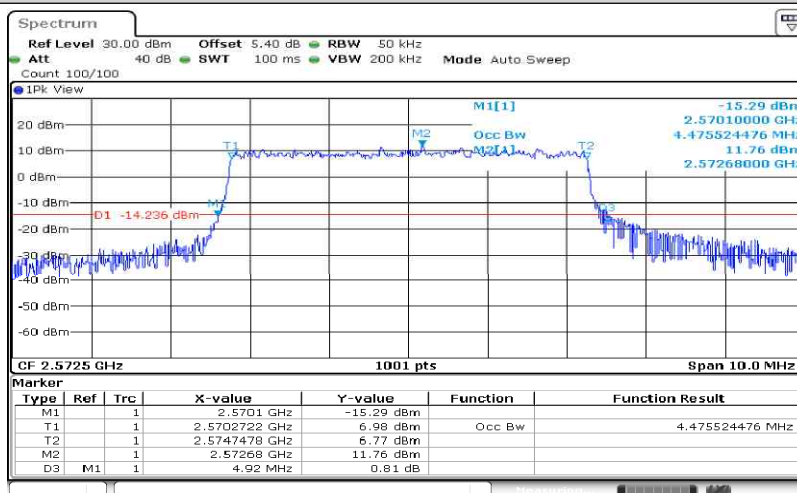


Band38-5MHz-QPSK-38225-25RB#0-4.466



Date: 27 MAY 2020 16:19:47

Band38-5MHz-64QAM-37775-25RB#0-4.476



Date: 28 MAY 2020 03:01:15



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.

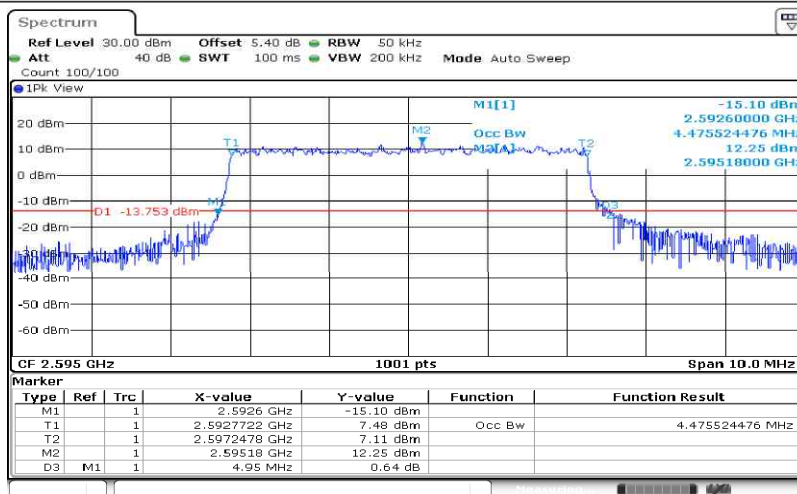
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

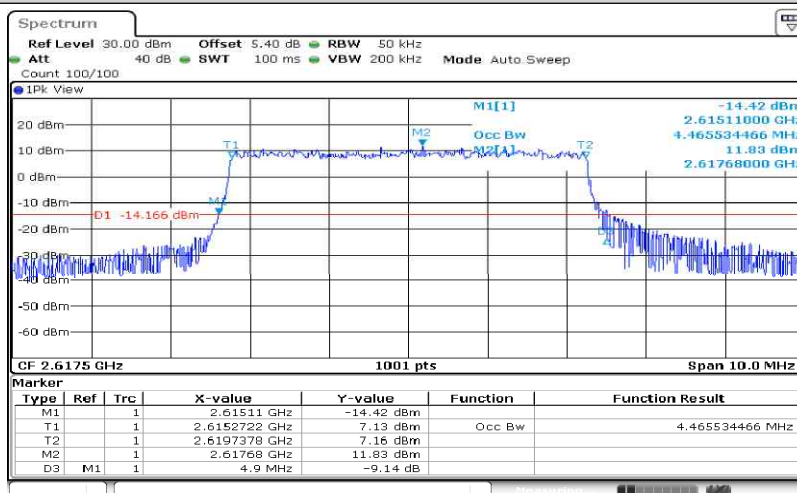


Band38-5MHz-64QAM-38000-25RB#0-4.476



Date: 28 MAY 2020 03:01:34

Band38-5MHz-64QAM-38225-25RB#0-4.466



Date: 28 MAY 2020 03:01:54



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

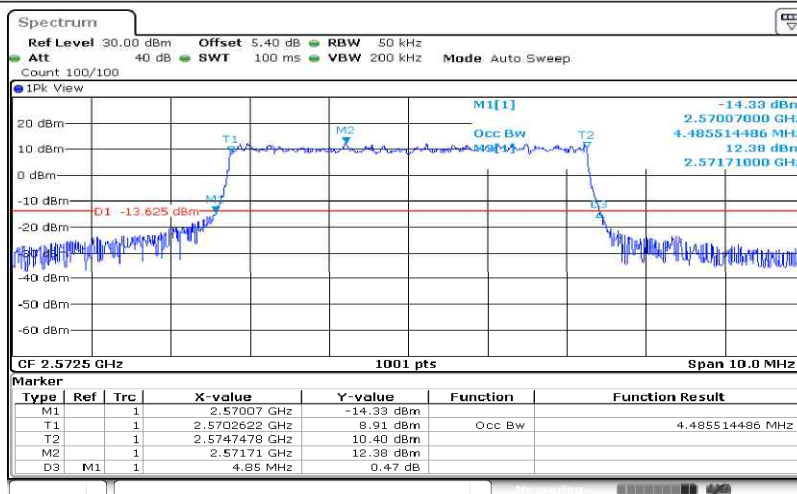
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

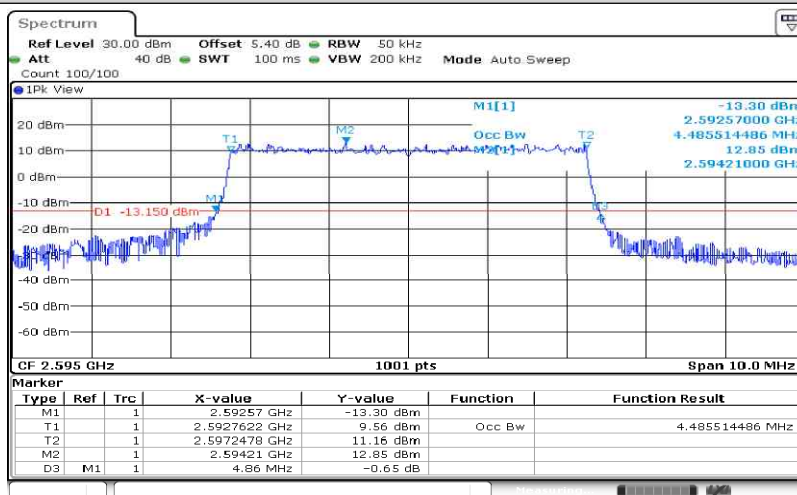
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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



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

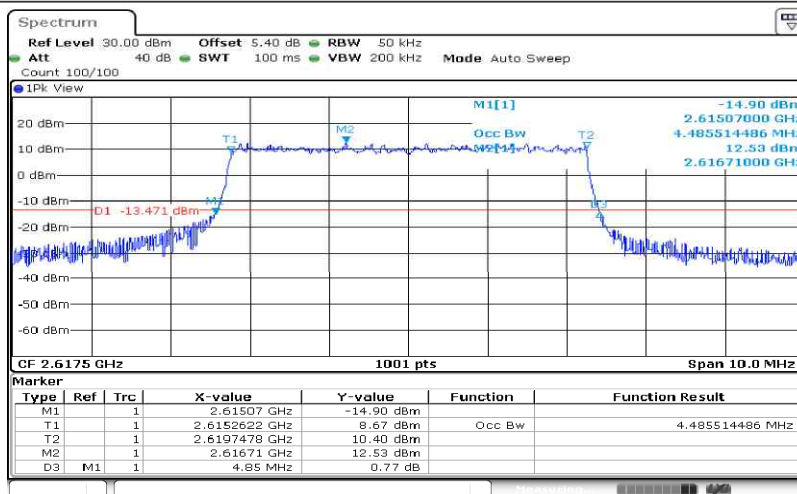


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

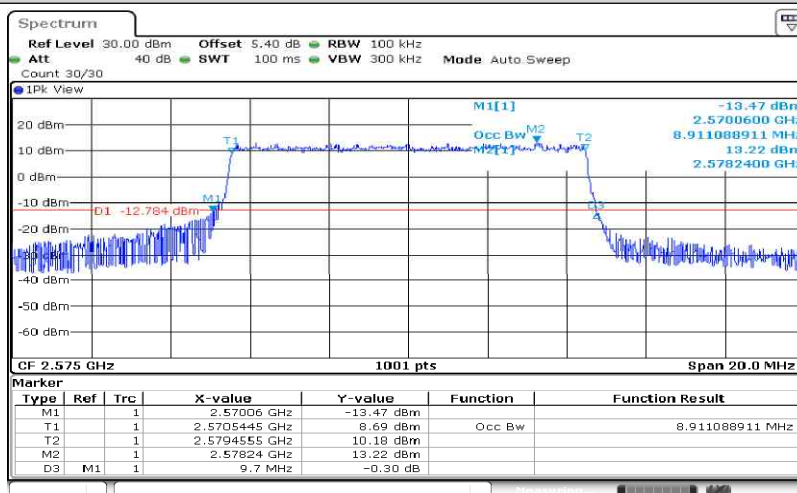


Band38-5MHz-16QAM-38225-25RB#0-4.486



Date: 27 MAY 2020 16:20:06

Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 27 MAY 2020 16:20:24

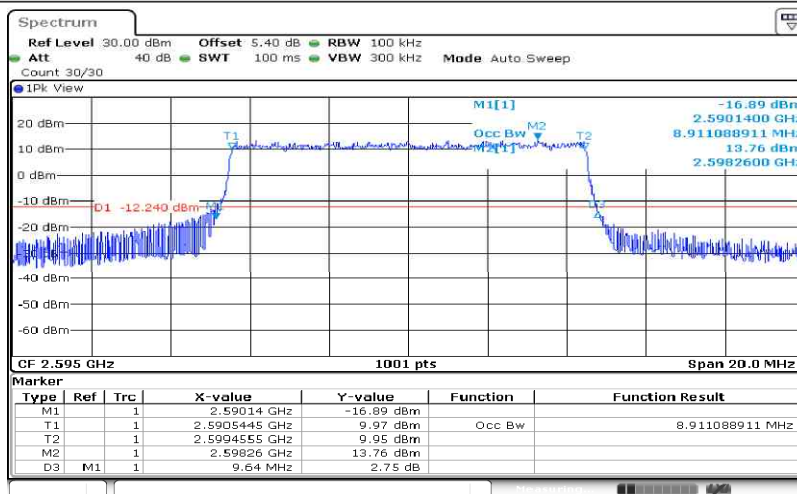


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

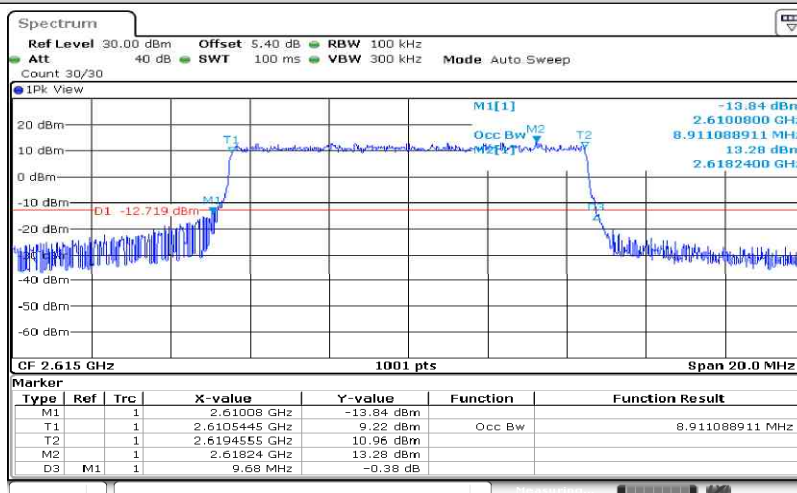


Band38-10MHz-QPSK-38000-50RB#0-8.911



Date: 27 MAY 2020 16:20:50

Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 27 MAY 2020 16:21:16



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

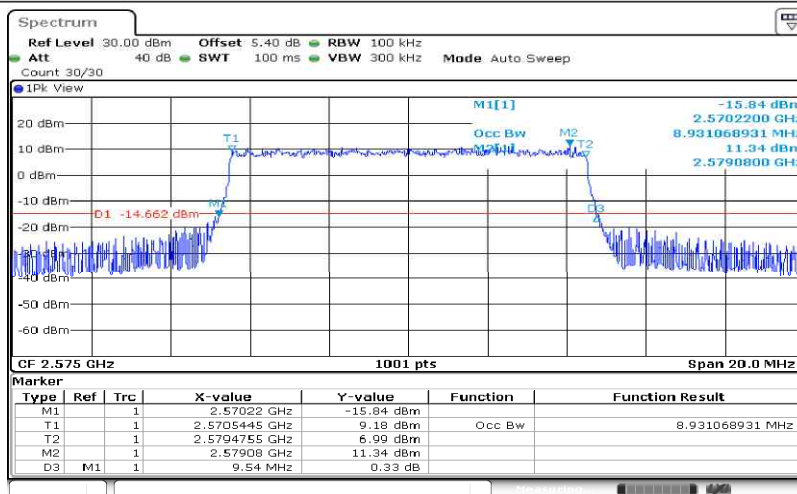
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

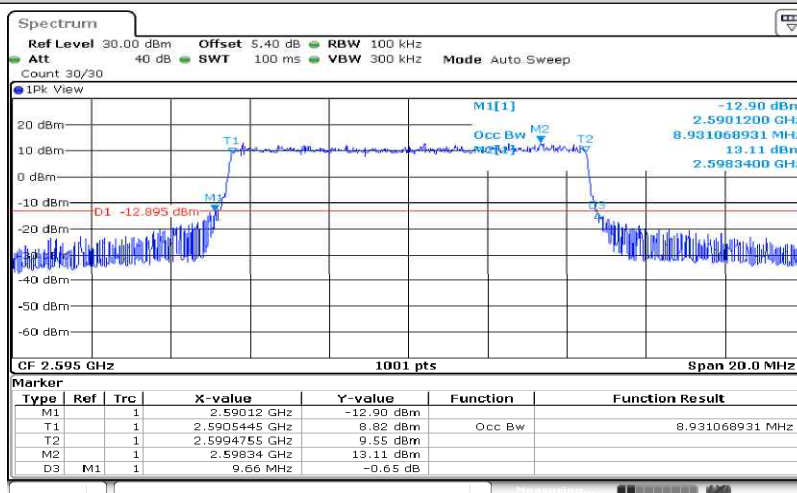


Band38-10MHz-64QAM-37800-50RB#0-8.931



Date: 28 MAY 2020 03:02:20

Band38-10MHz-64QAM-38000-50RB#0-8.931



Date: 28 MAY 2020 03:02:57

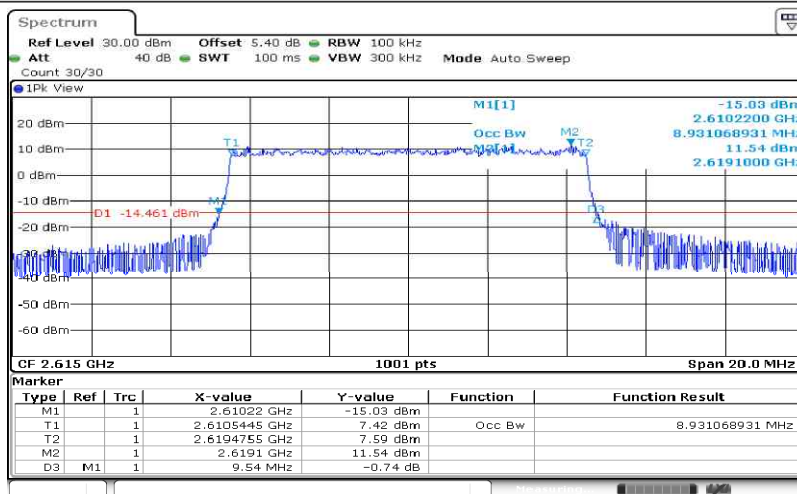


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

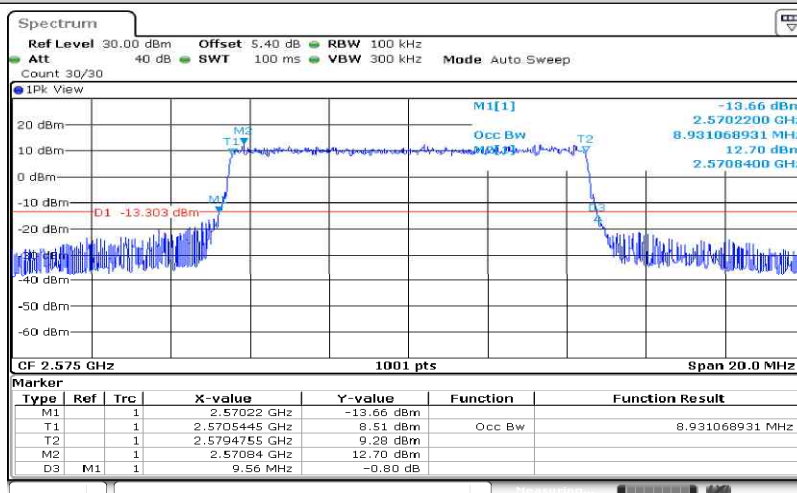


Band38-10MHz-64QAM-38200-50RB#0-8.931



Date: 28 MAY 2020 03:03:12

Band38-10MHz-16QAM-37800-50RB#0-8.931



Date: 27 MAY 2020 16:20:37

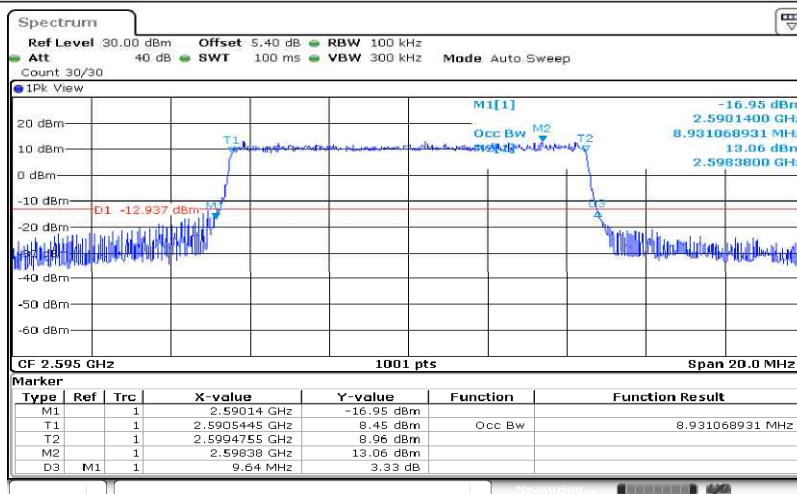


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

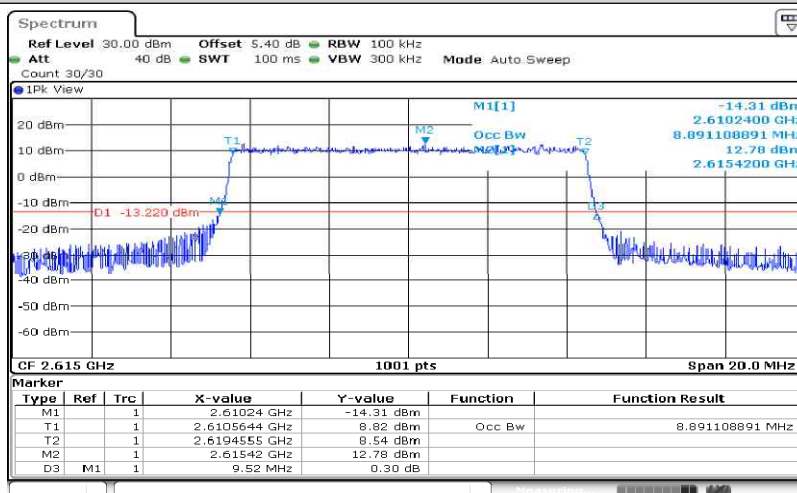


Band38-10MHz-16QAM-38000-50RB#0-8.931



Date: 27 MAY 2020 16:21:03

Band38-10MHz-16QAM-38200-50RB#0-8.891



Date: 27 MAY 2020 16:21:29



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

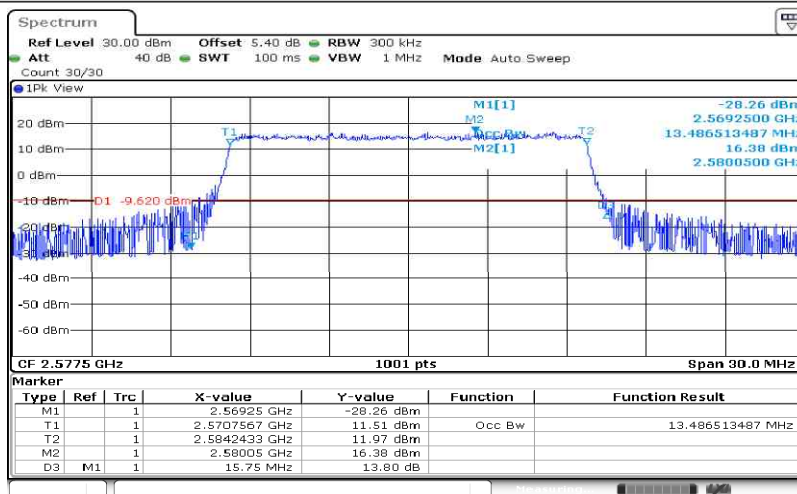
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

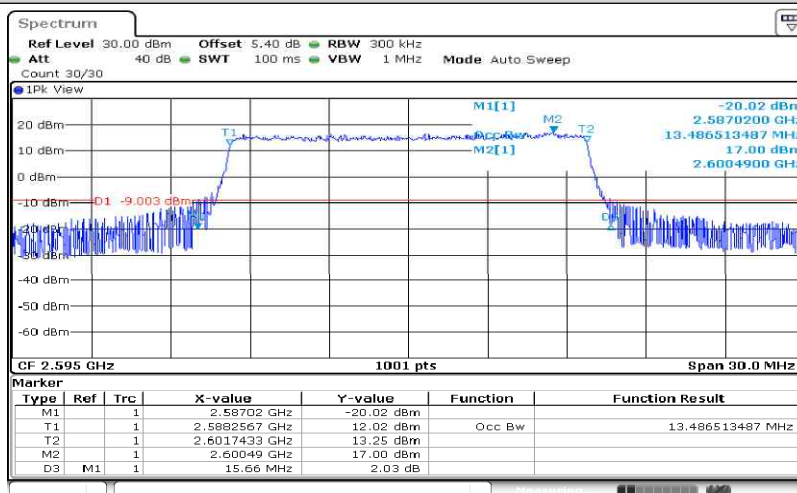


Band38-15MHz-QPSK-37825-75RB#0-13.487



Date: 27 MAY 2020 16:21:47

Band38-15MHz-QPSK-38000-75RB#0-13.487



Date: 27 MAY 2020 16:22:13



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.

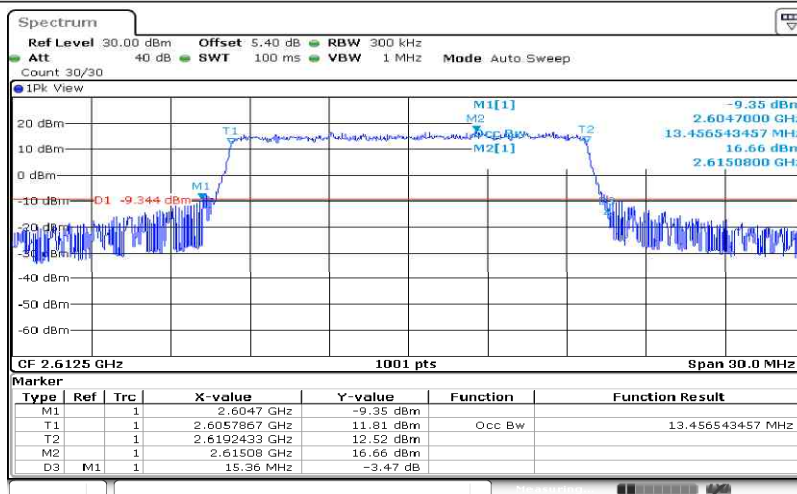
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

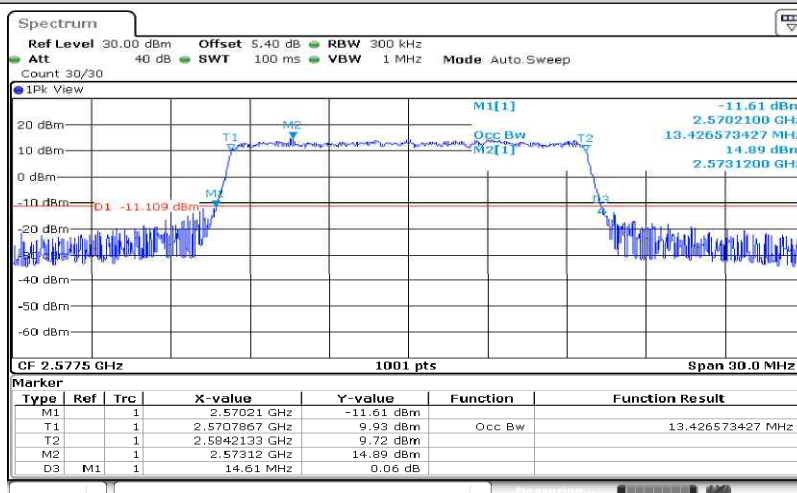


Band38-15MHz-QPSK-38175-75RB#0-13.457



Date: 27 MAY 2020 16:22:39

Band38-15MHz-64QAM-37825-75RB#0-13.427



Date: 28 MAY 2020 03:04:59



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

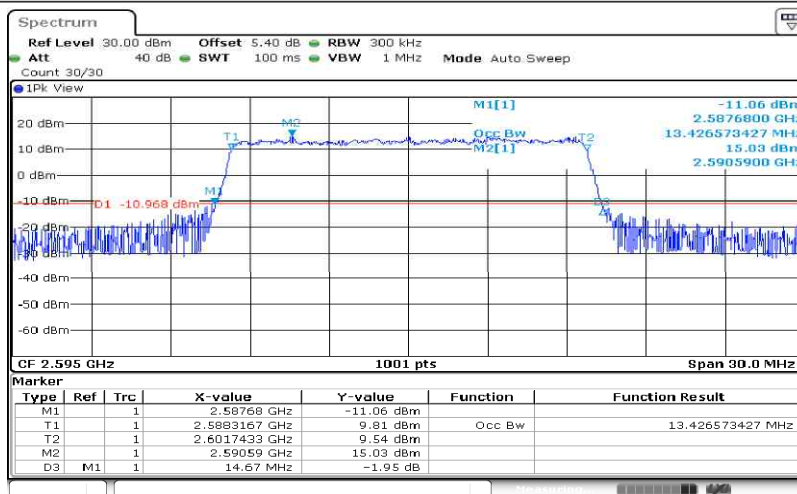
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Testing Center, EEC Laboratory

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

Member of the SGS Group (SGS SA)

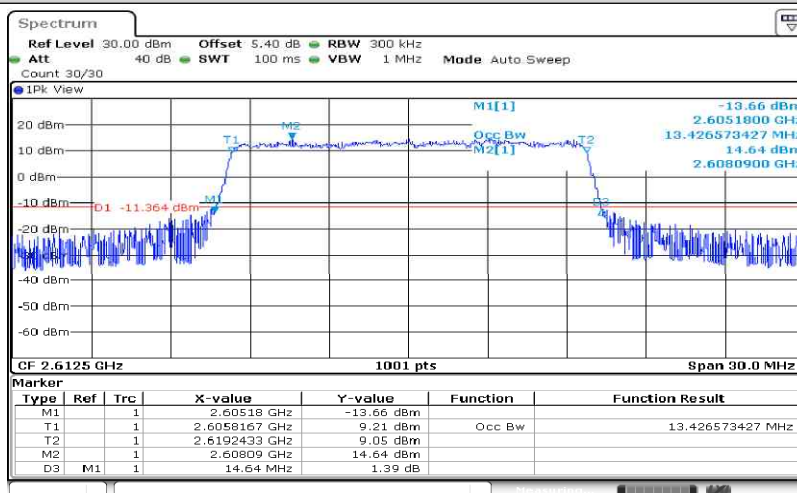


Band38-15MHz-64QAM-38000-75RB#0-13.427



Date: 28 MAY 2020 03:05:12

Band38-15MHz-64QAM-38175-75RB#0-13.427



Date: 28 MAY 2020 03:05:26

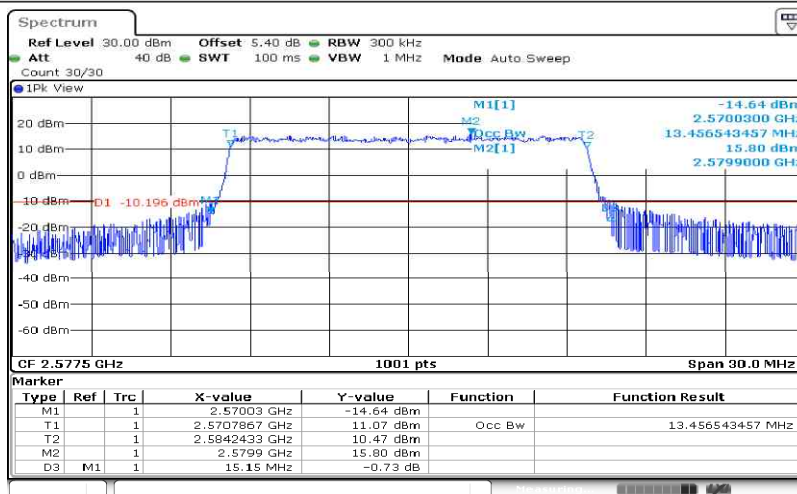


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

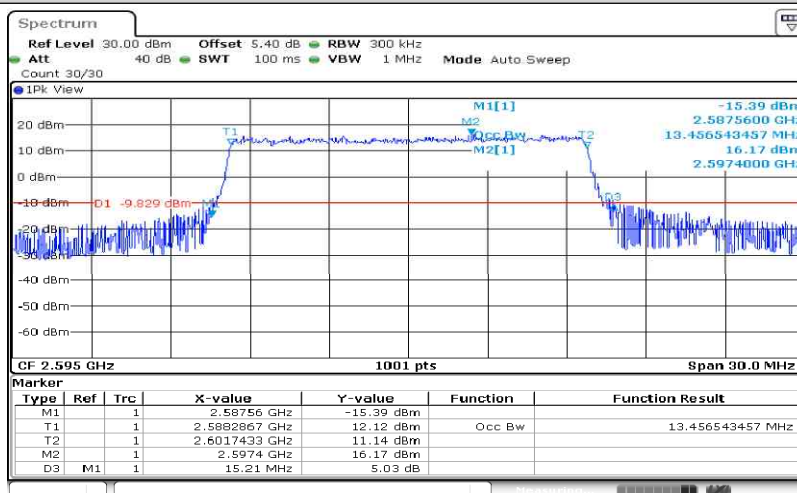


Band38-15MHz-16QAM-37825-75RB#0-13.457



Date: 27 MAY 2020 16:22:00

Band38-15MHz-16QAM-38000-75RB#0-13.457



Date: 27 MAY 2020 16:22:26



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

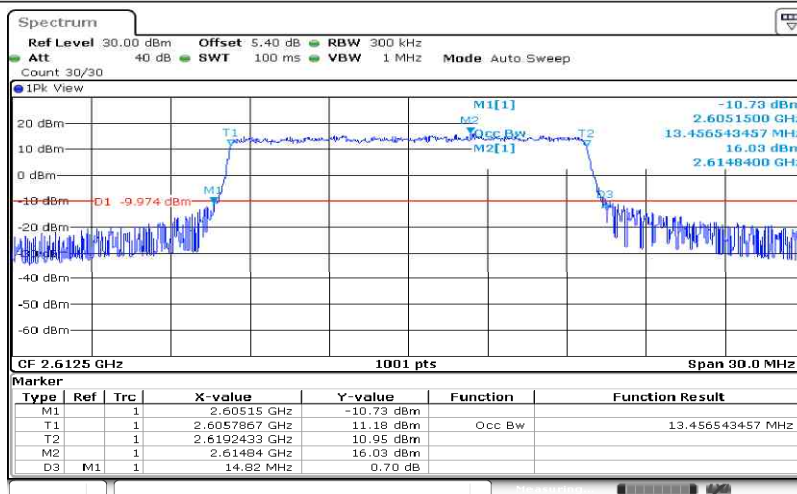
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

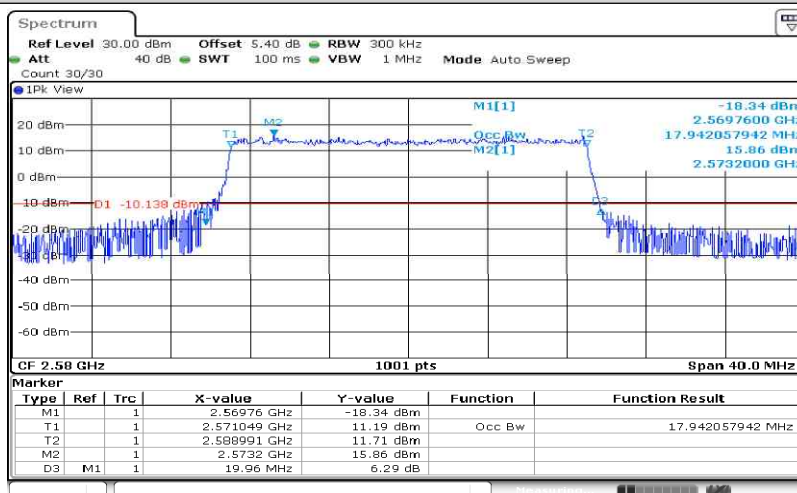


Band38-15MHz-16QAM-38175-75RB#0-13.457



Date: 27 MAY 2020 16:22:51

Band38-20MHz-QPSK-37850-100RB#0-17.942



Date: 27 MAY 2020 16:23:09

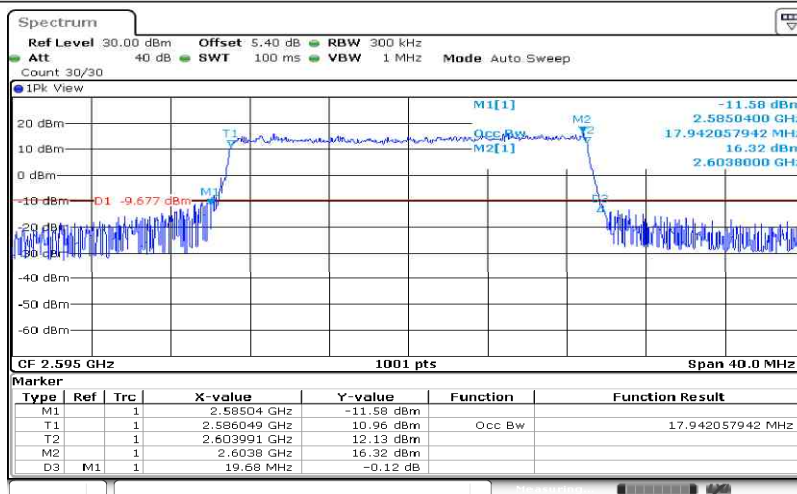


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

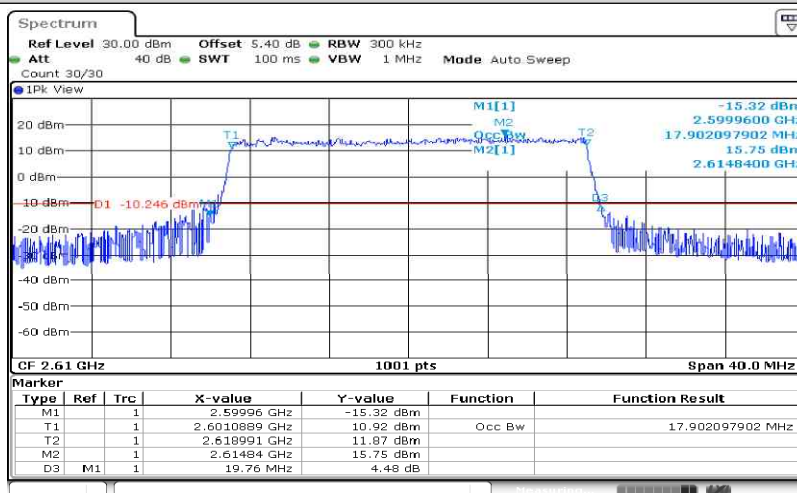


Band38-20MHz-QPSK-38000-100RB#0-17.942



Date: 27 MAY 2020 16:23:35

Band38-20MHz-QPSK-38150-100RB#0-17.902



Date: 27 MAY 2020 16:24:01



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

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

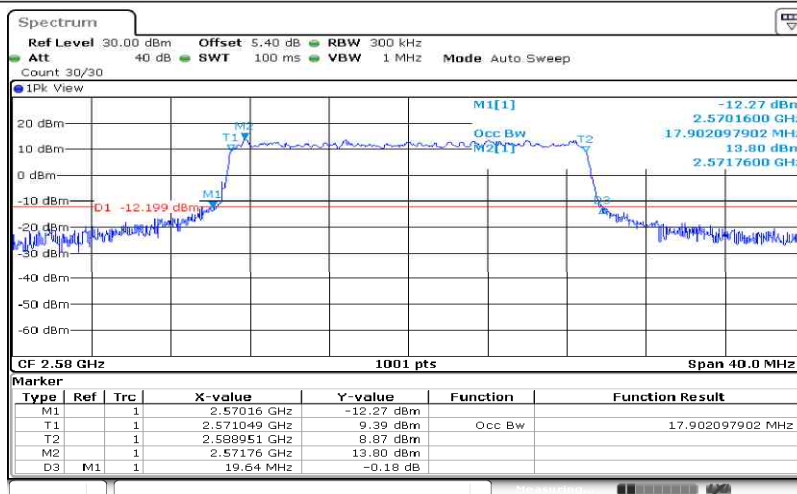
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

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)

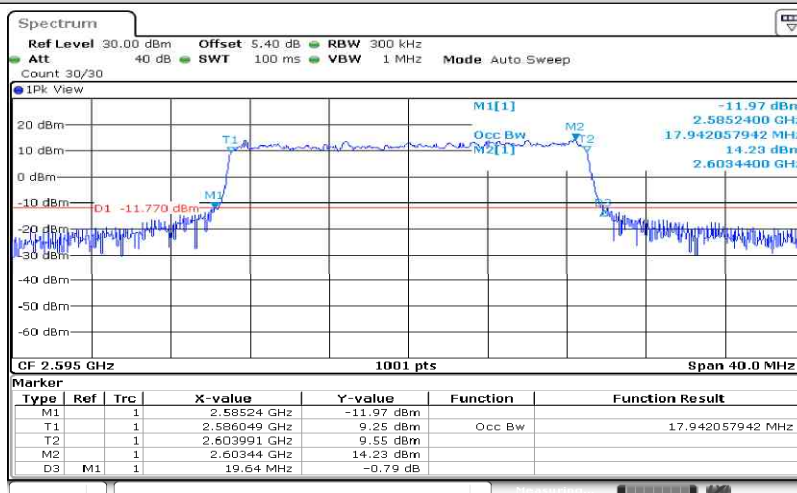


Band38-20MHz-64QAM-37850-100RB#0-17.902



Date: 28 MAY 2020 03:06:09

Band38-20MHz-64QAM-38000-100RB#0-17.942



Date: 28 MAY 2020 03:06:35



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.

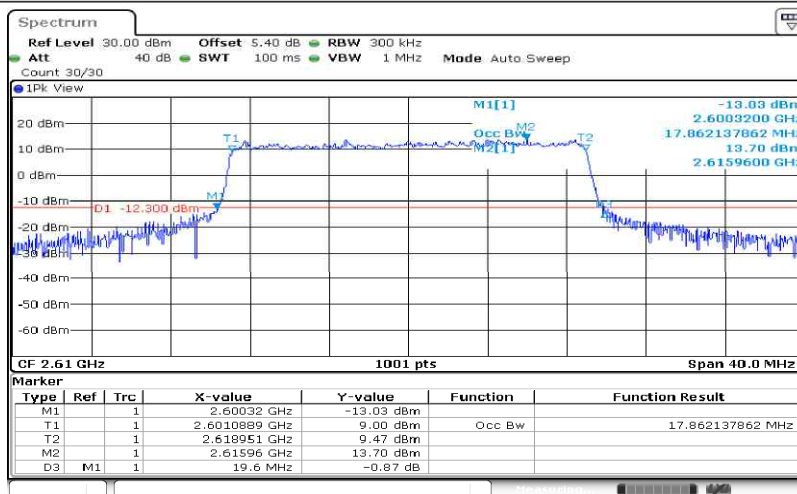
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

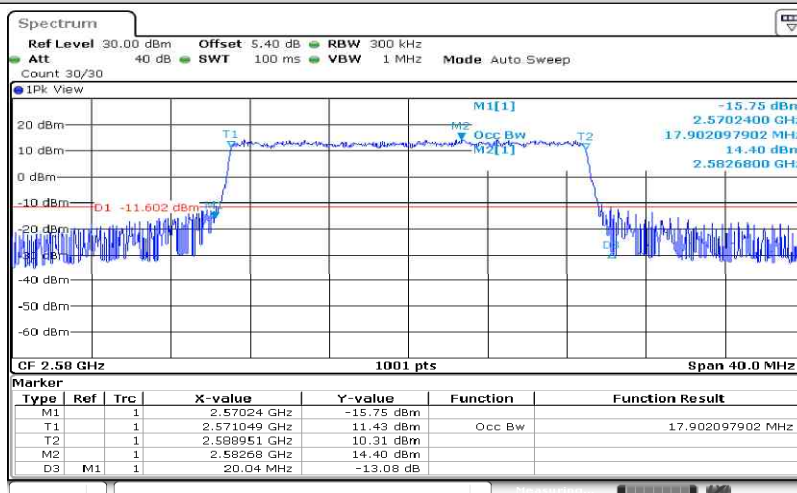


Band38-20MHz-64QAM-38150-100RB#0-17.862



Date: 28 MAY 2020 03:07:03

Band38-20MHz-16QAM-37850-100RB#0-17.902



Date: 27 MAY 2020 16:23:22



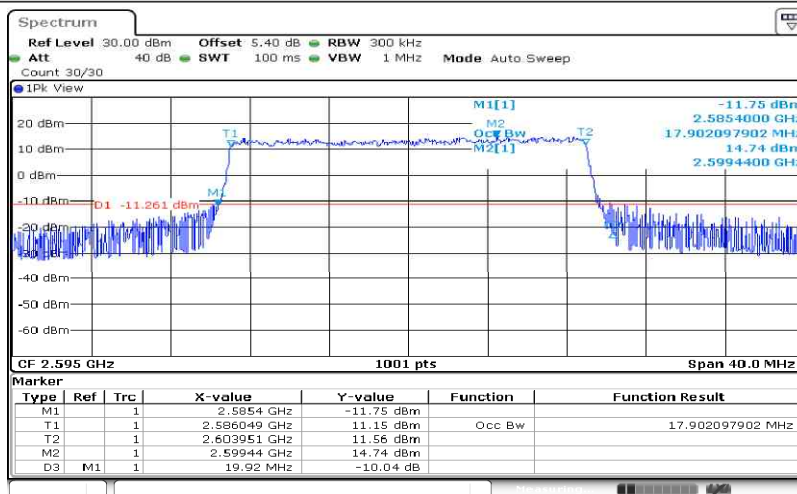
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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

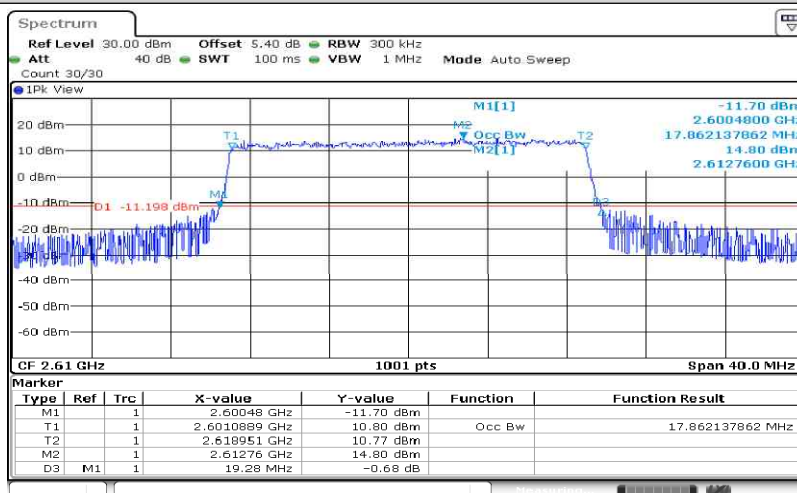


Band38-20MHz-16QAM-38000-100RB#0-17.902



Date: 27 MAY 2020 16:23:48

Band38-20MHz-16QAM-38150-100RB#0-17.862



Date: 27 MAY 2020 16:24:14



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

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.

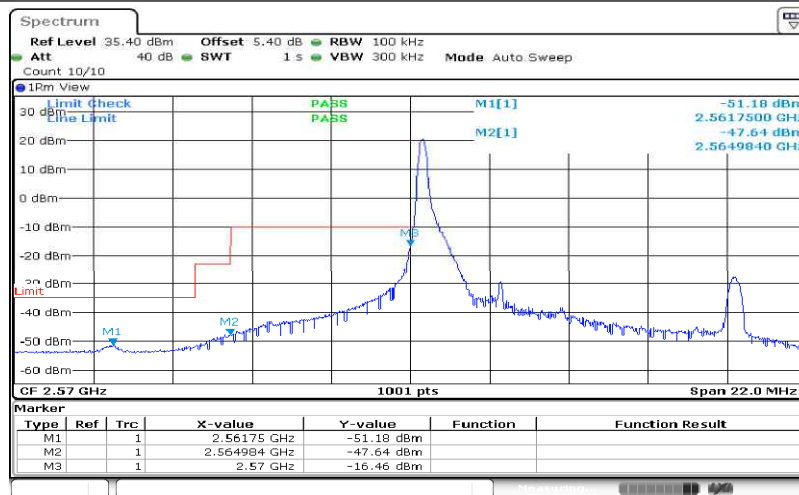
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

5. Band Edge Compliance

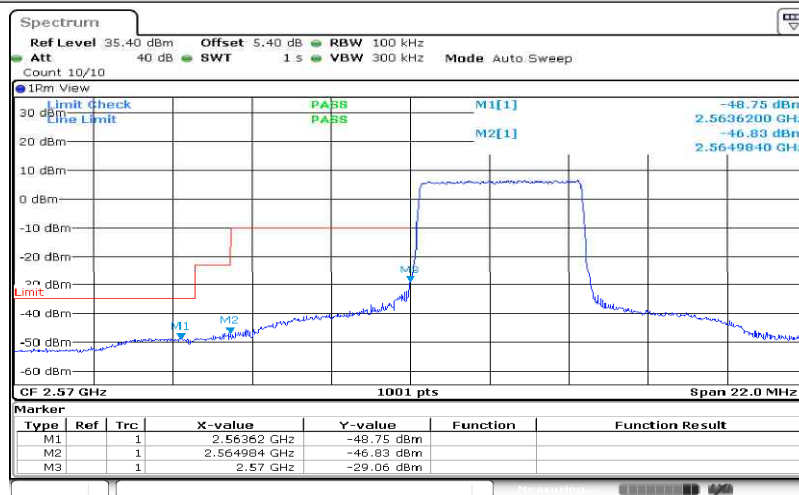
5.1. Test Plots

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



Date: 27 MAY 2020 16:24:40

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



Date: 27 MAY 2020 16:26:16

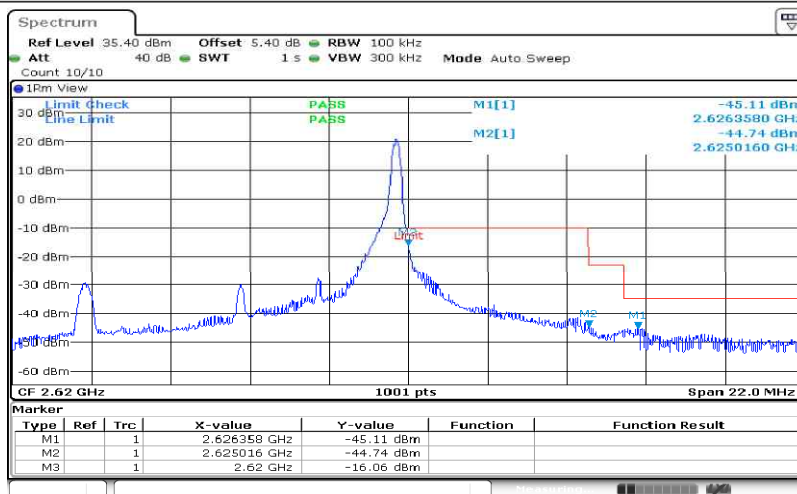


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

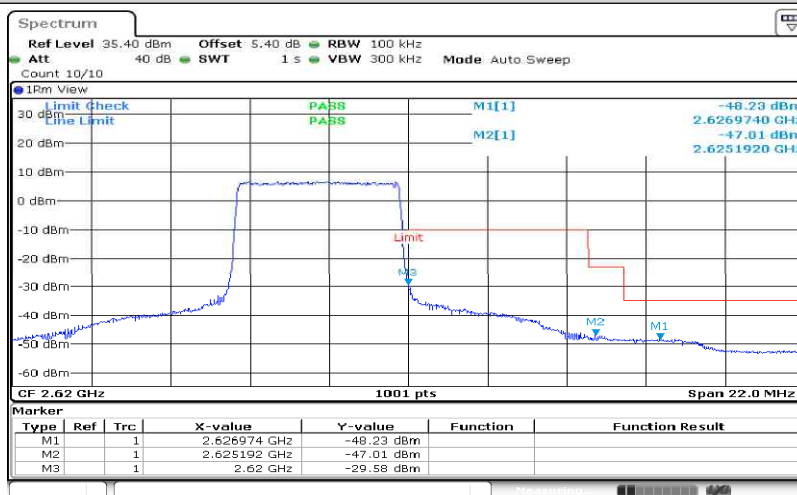
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-38225-1RB#24



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

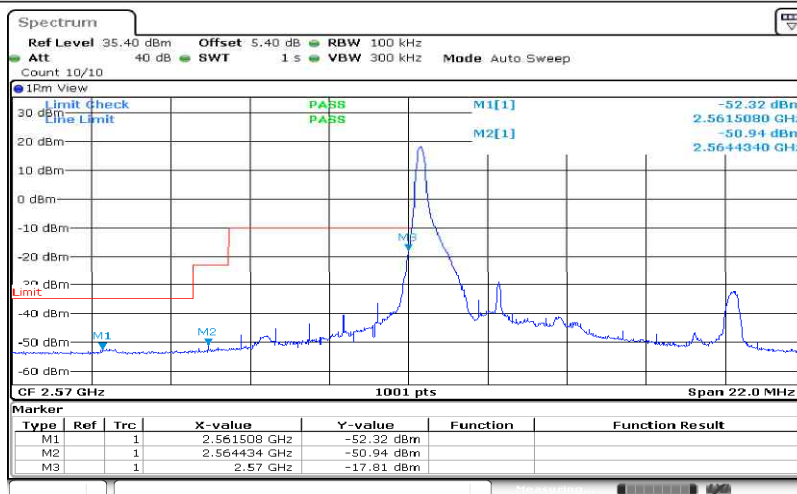


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

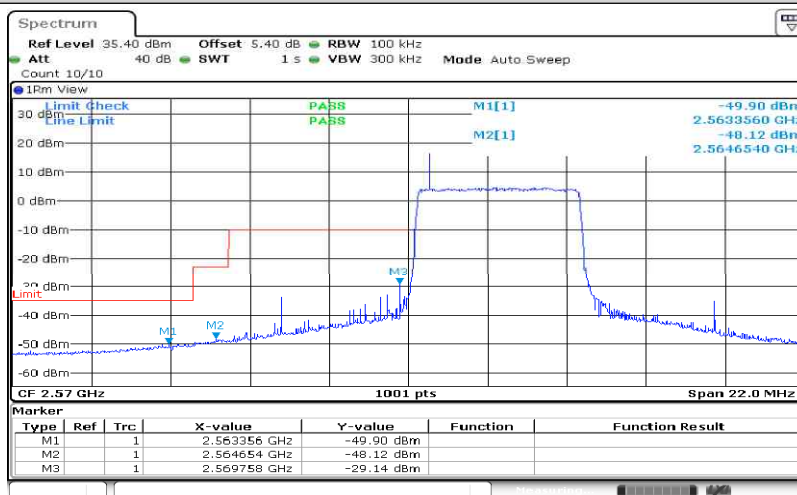
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band38-5MHz-64QAM-37775-1RB#0



Band38-5MHz-64QAM-37775-25RB#0

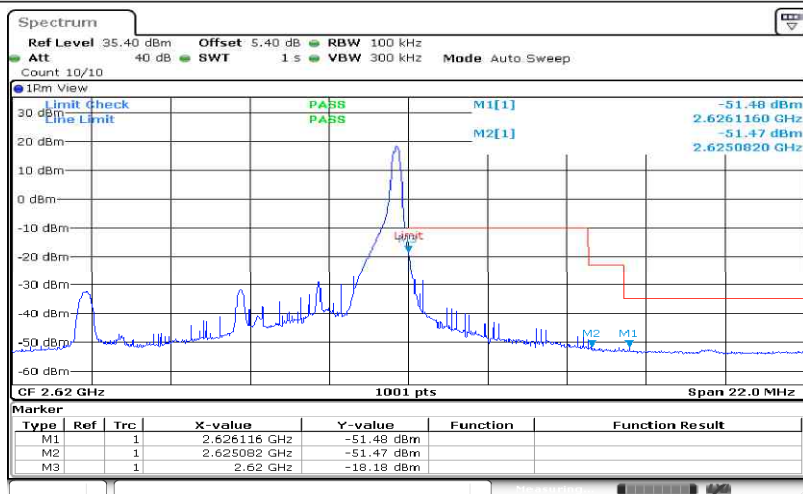


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

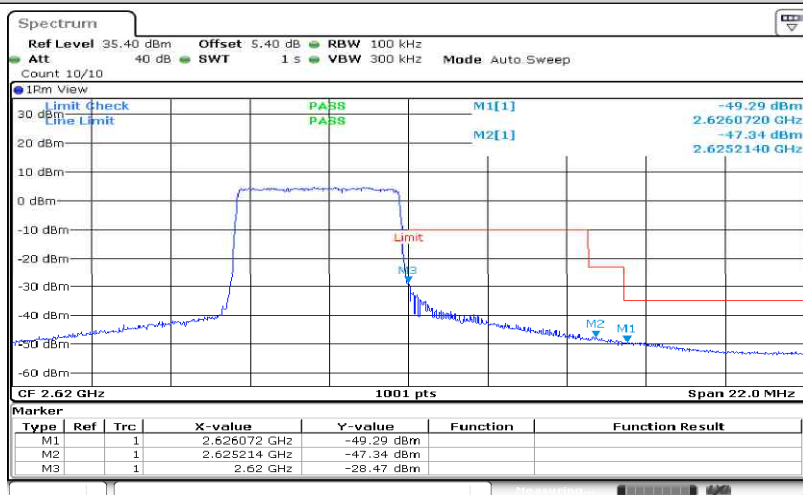
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band38-5MHz-64QAM-38225-1RB#24



Band38-5MHz-64QAM-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-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.

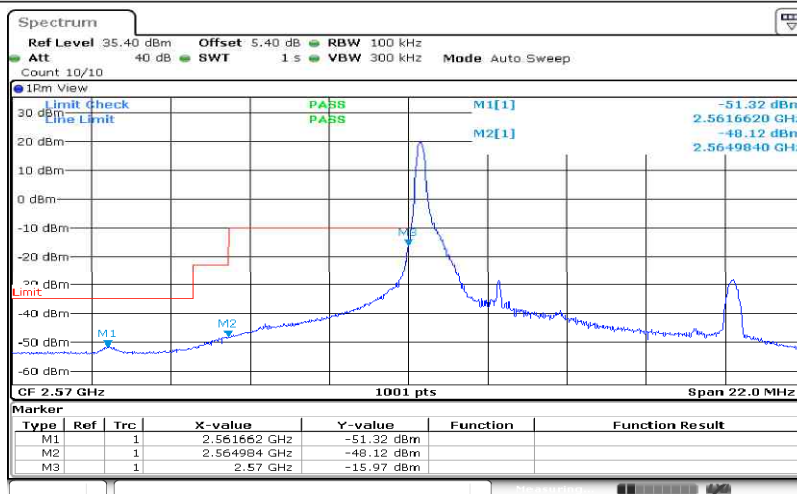
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

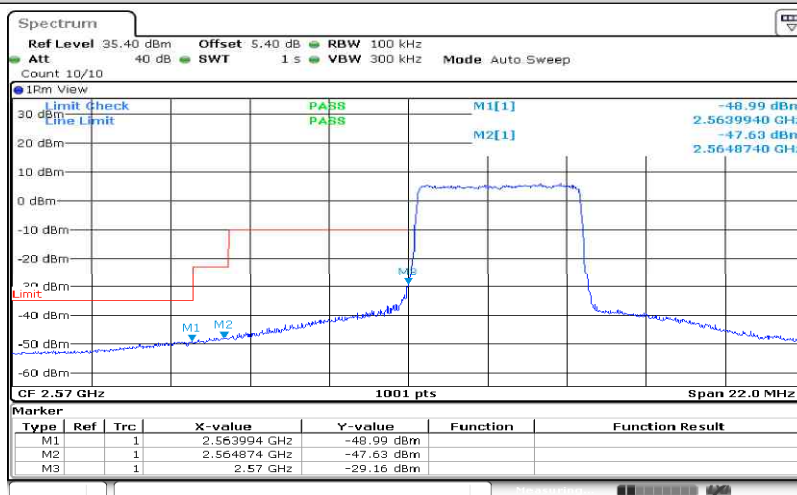
Member of the SGS Group (SGS SA)



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



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

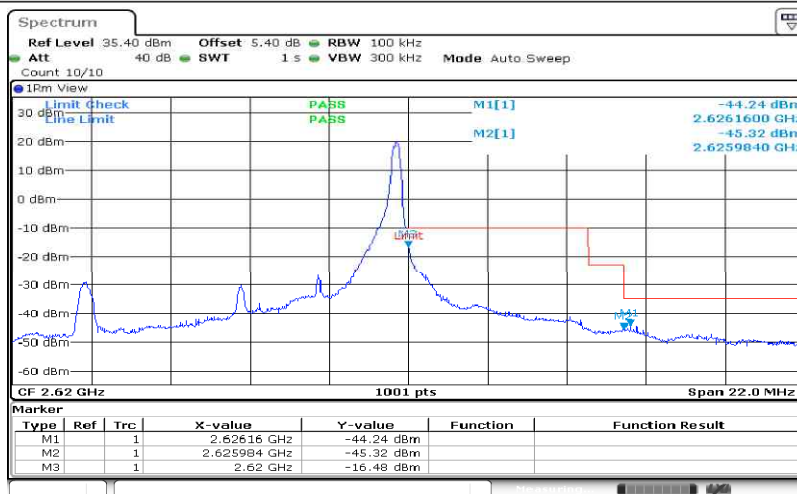


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

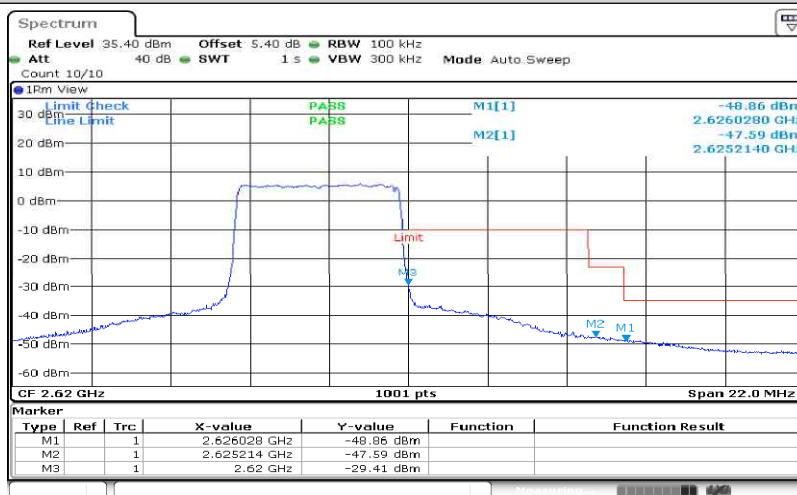
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



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



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

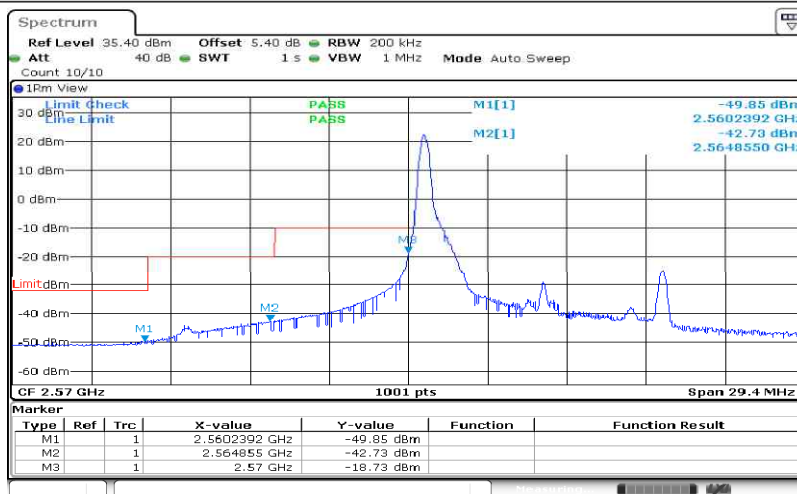


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

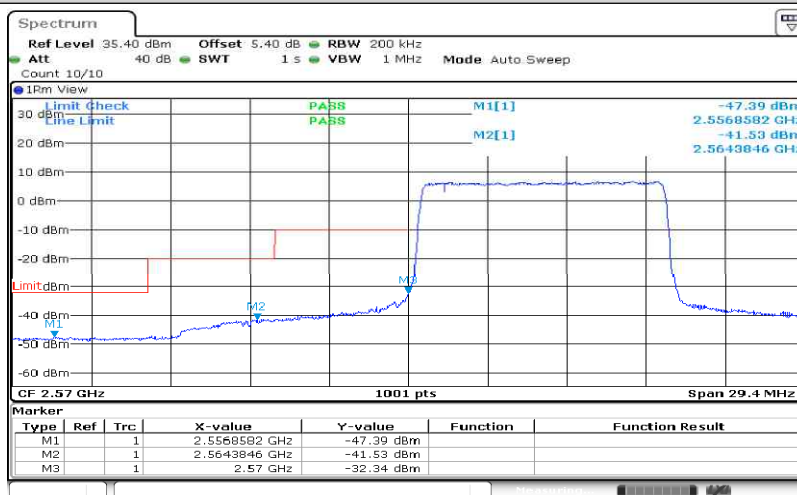
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

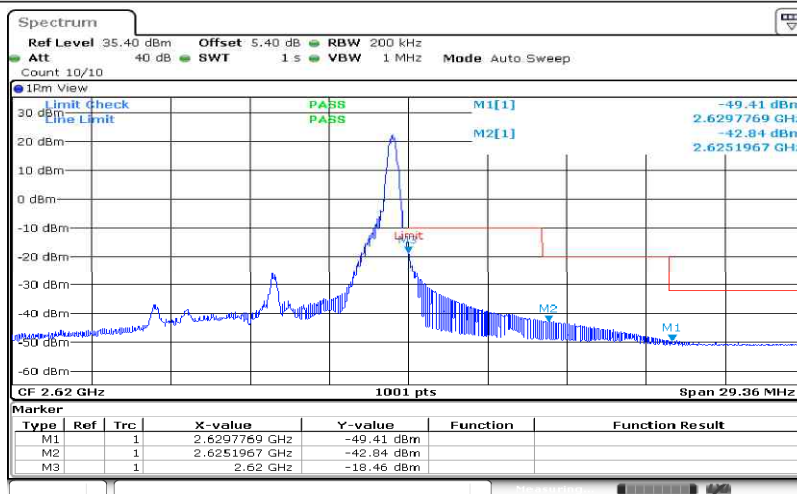


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

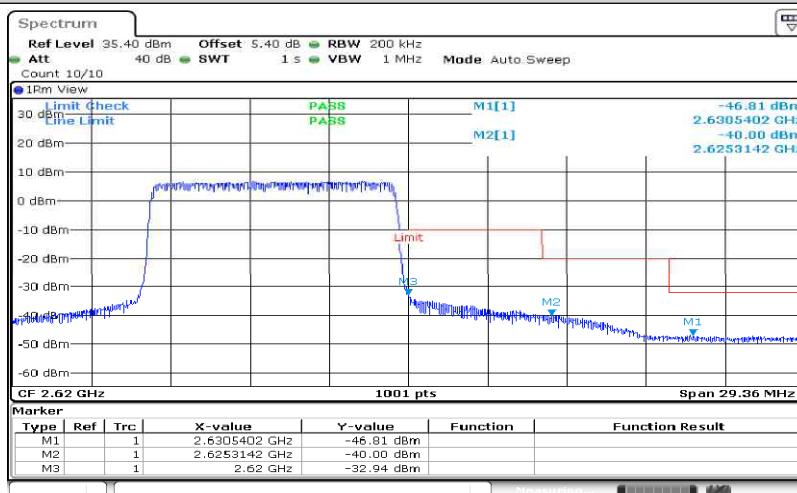


Band38-10MHz-QPSK-38200-1RB#49



Date: 27 MAY 2020 16:28:38

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



Date: 27 MAY 2020 16:30:09

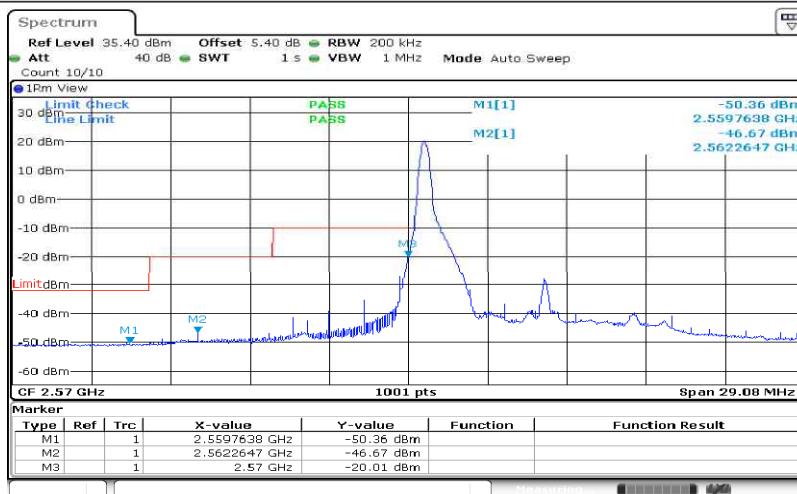


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

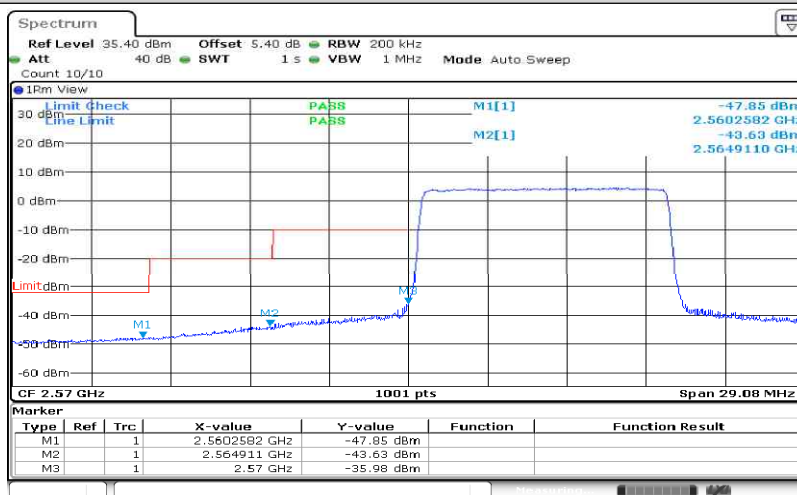
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-64QAM-37800-1RB#0



Band38-10MHz-64QAM-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-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.

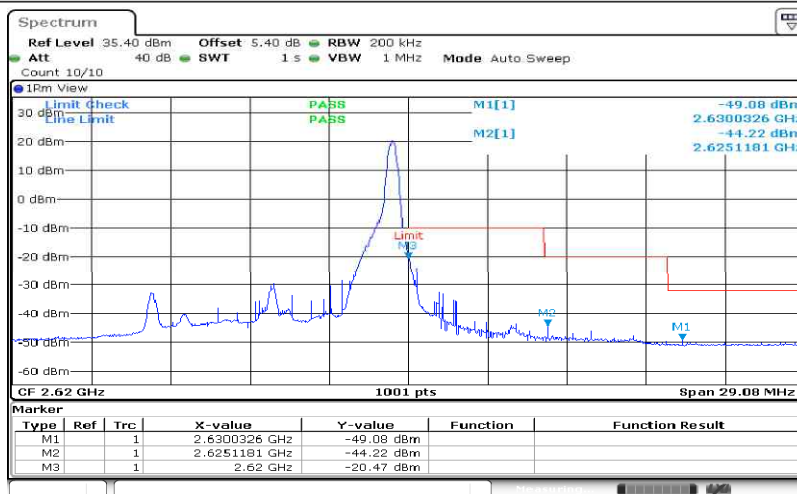
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

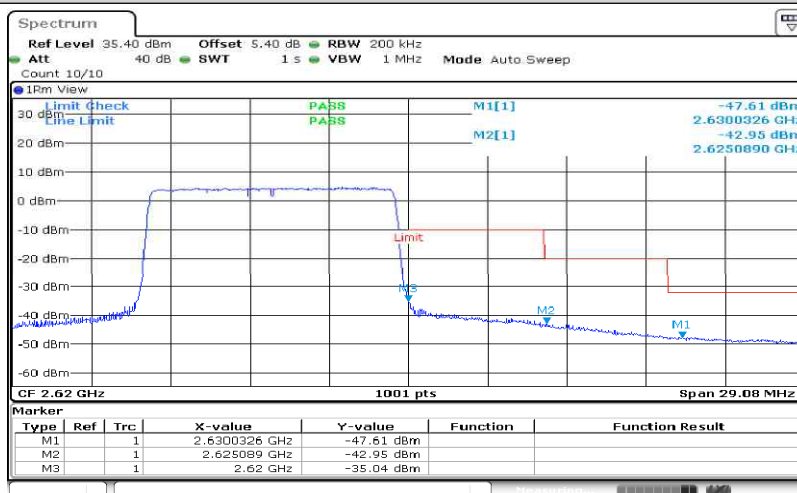
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-10MHz-64QAM-38200-1RB#49



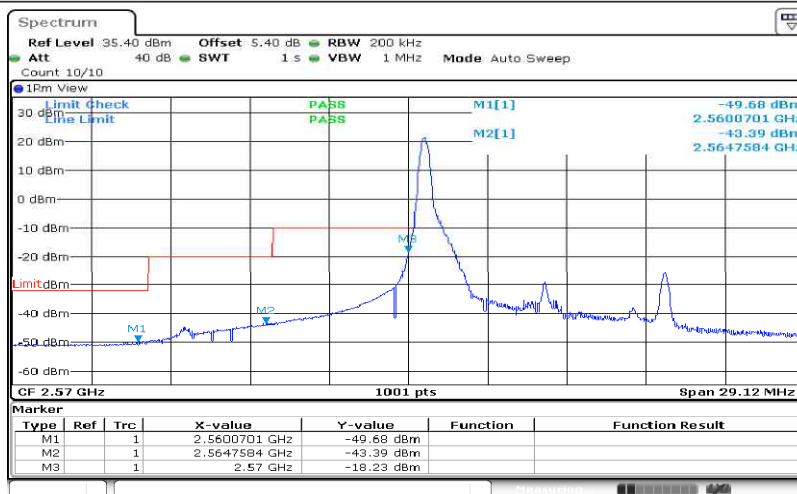
Band38-10MHz-64QAM-38200-50RB#0



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.

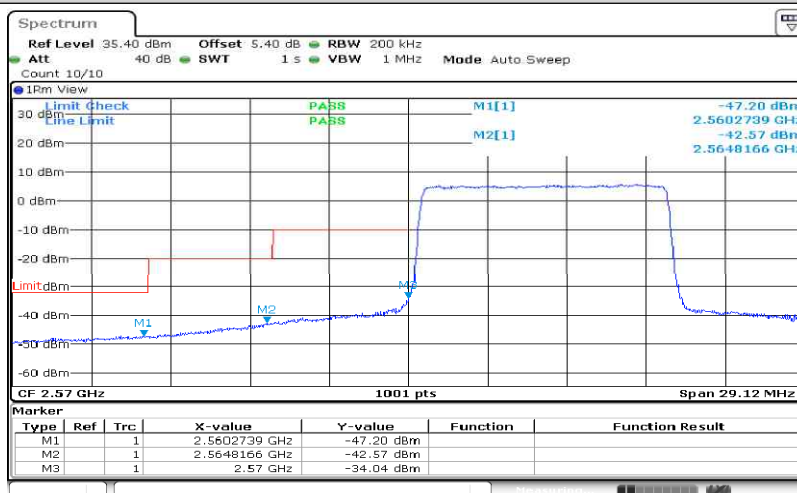
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

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



Date: 27 MAY 2020 16:28:11

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



Date: 27.MAY.2020 16:29:47



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.

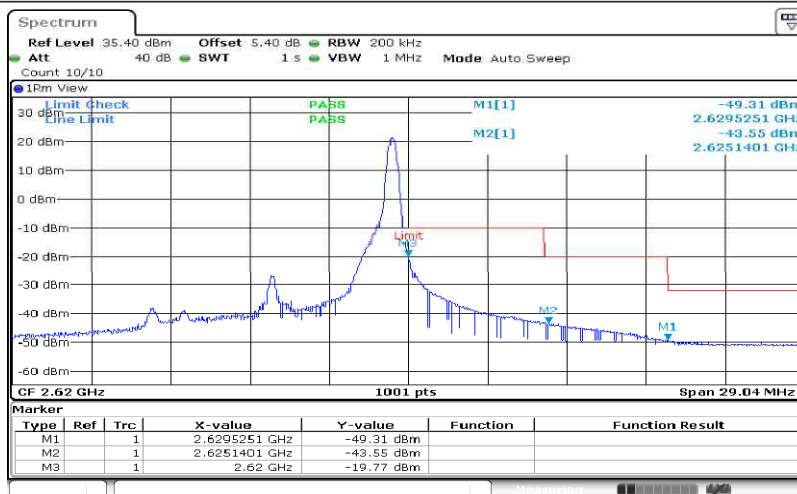
Attention to the following information is requested: in the event of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com.

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

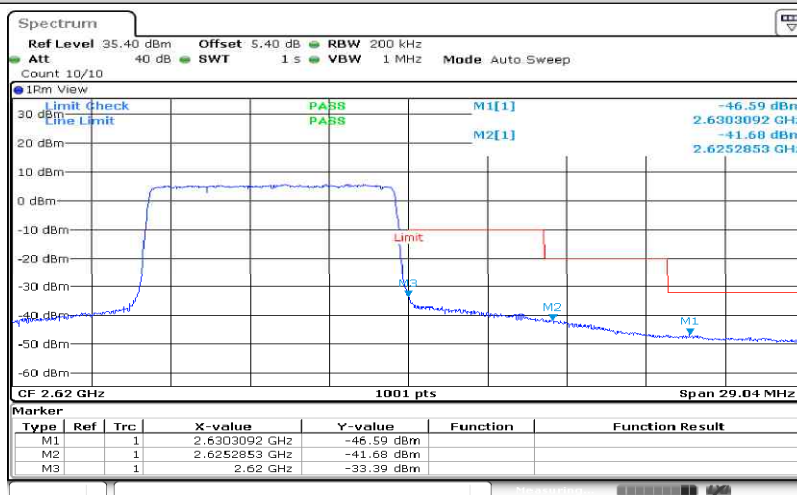
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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



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

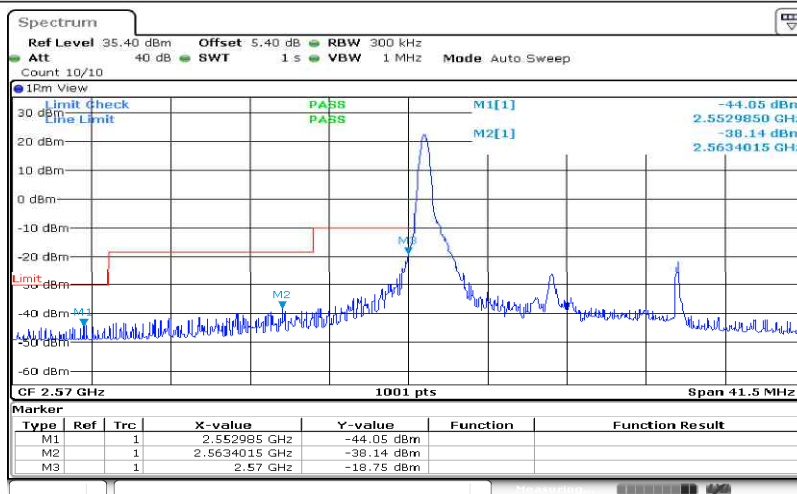


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

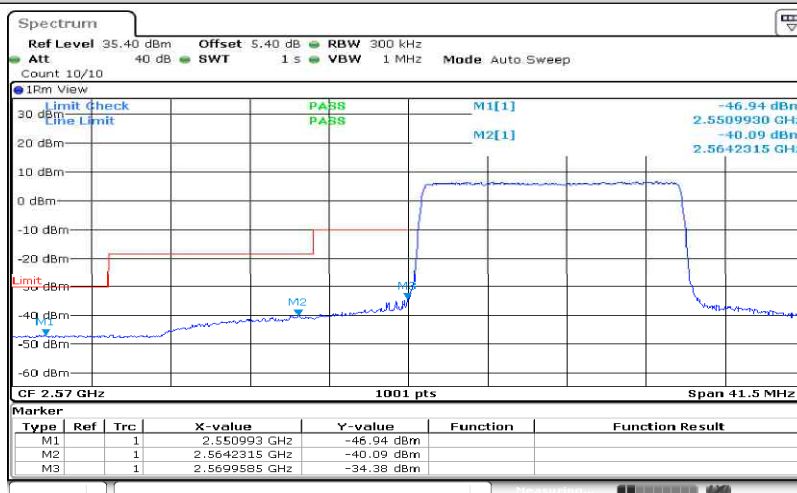


Band38-15MHz-QPSK-37825-1RB#0



Date: 27 MAY 2020 16:30:58

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



Date: 27 MAY 2020 16:32:33



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

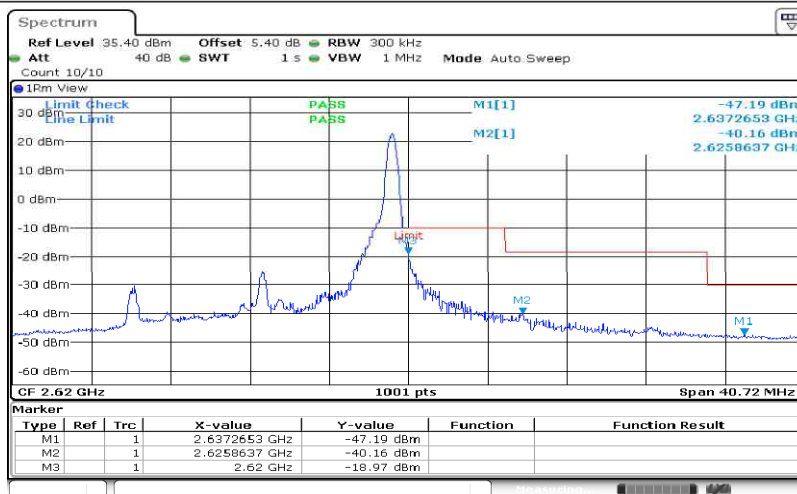
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

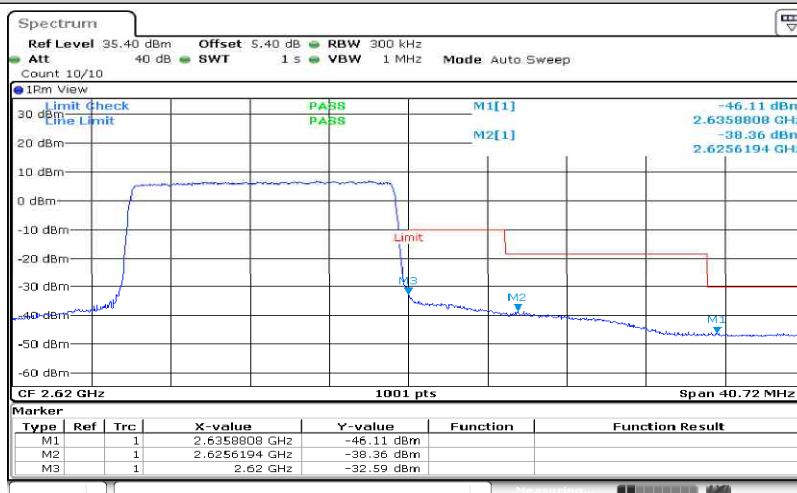


Band38-15MHz-QPSK-38175-1RB#74



Date: 27 MAY 2020 16:31:46

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



Date: 27 MAY 2020 16:33:17



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.

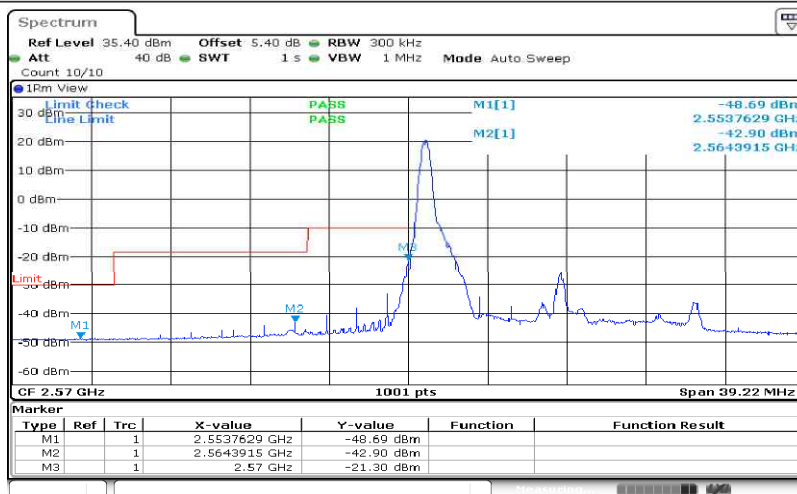
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

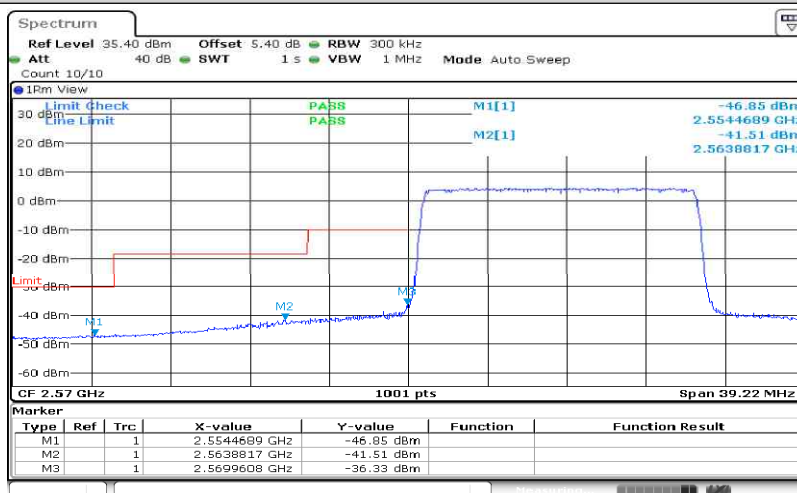


Band38-15MHz-64QAM-37825-1RB#0



Date: 28 MAY 2020 03:15:55

Band38-15MHz-64QAM-37825-75RB#0



Date: 28 MAY 2020 03:16:47



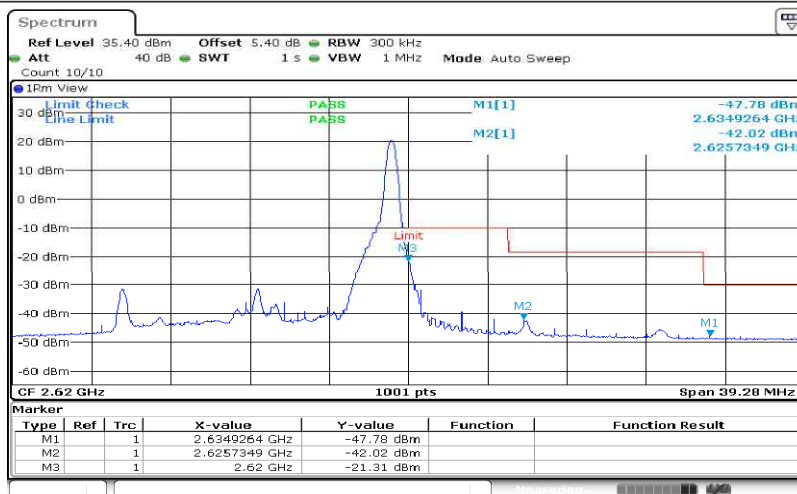
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

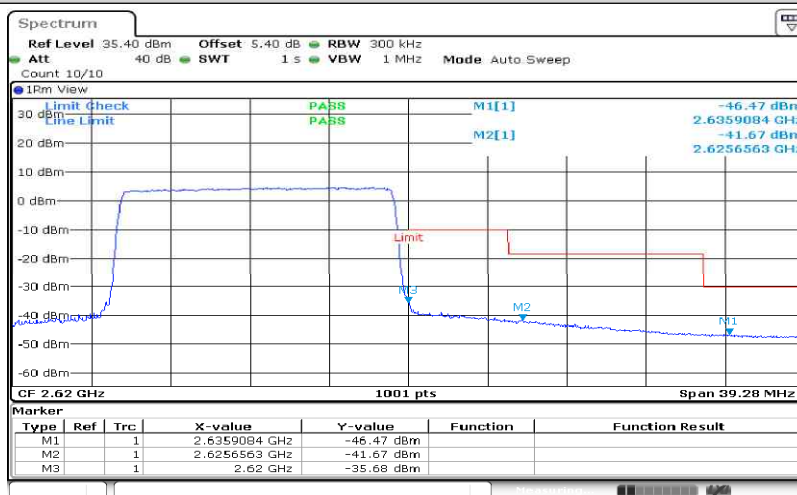
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-15MHz-64QAM-38175-1RB#74

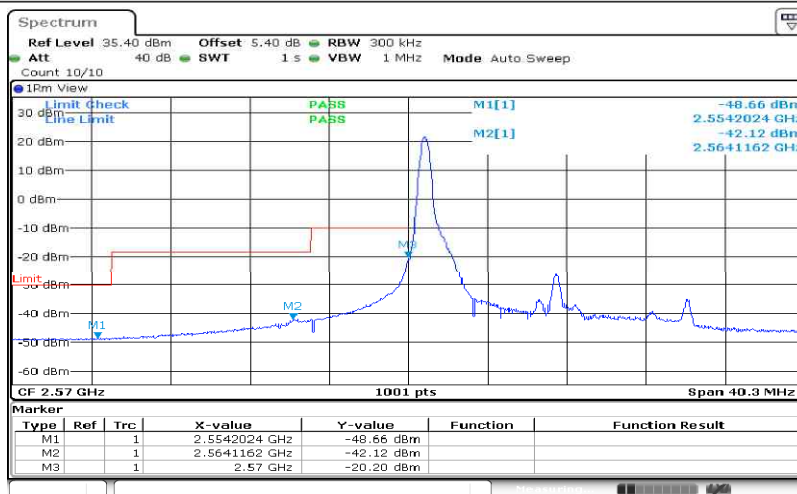


Band38-15MHz-64QAM-38175-75RB#0



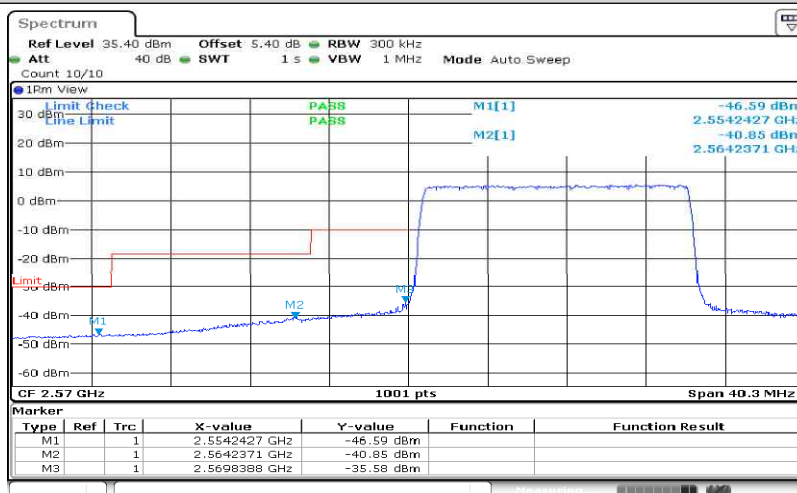


Band38-15MHz-16QAM-37825-1RB#0



Date: 27 MAY 2020 16:31:20

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

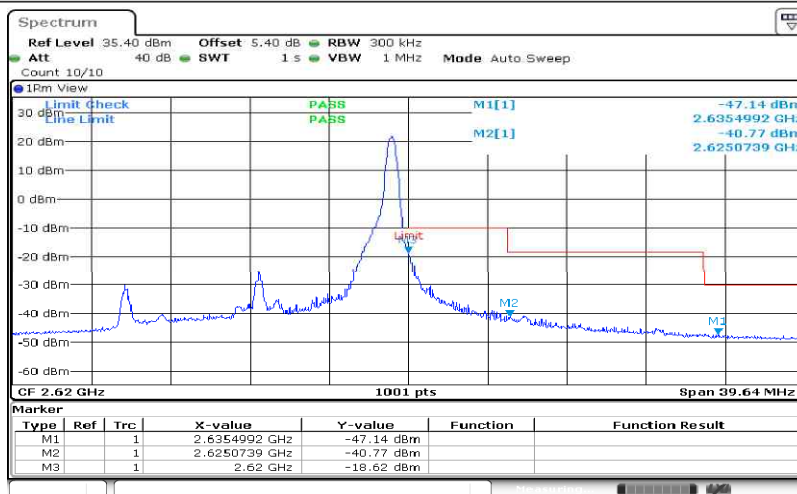


Date: 27 MAY 2020 16:32:55



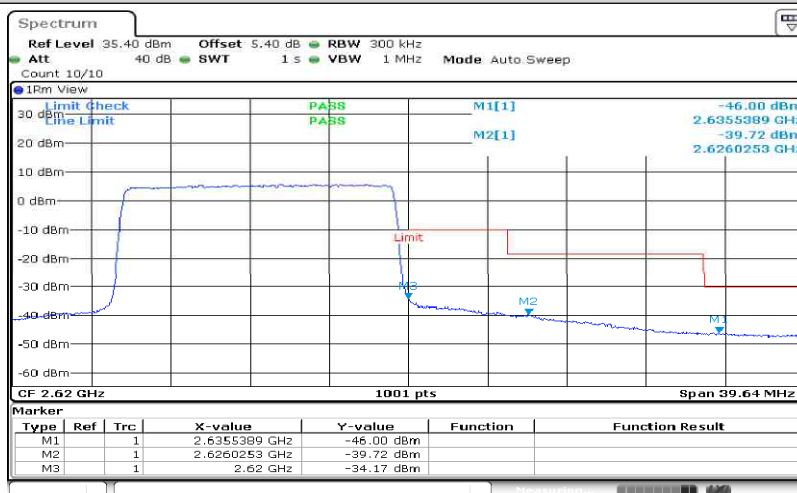


Band38-15MHz-16QAM-38175-1RB#74



Date: 27 MAY 2020 16:32:07

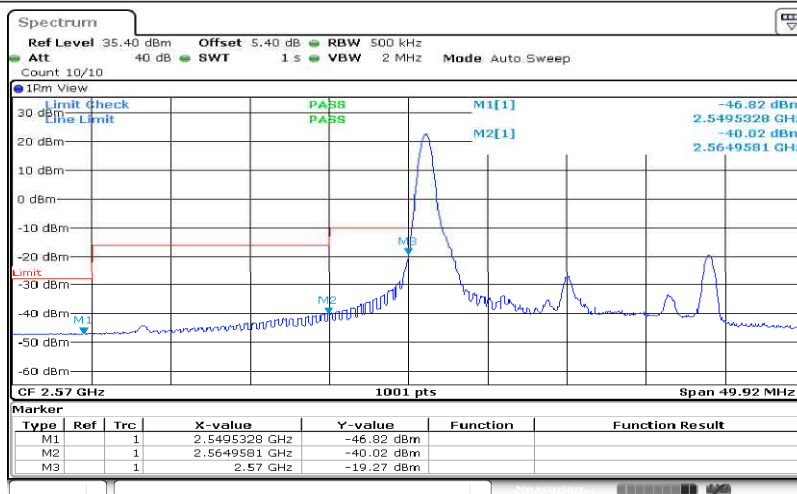
Band38-15MHz-16QAM-38175-75RB#0



Date: 27 MAY 2020 16:33:39

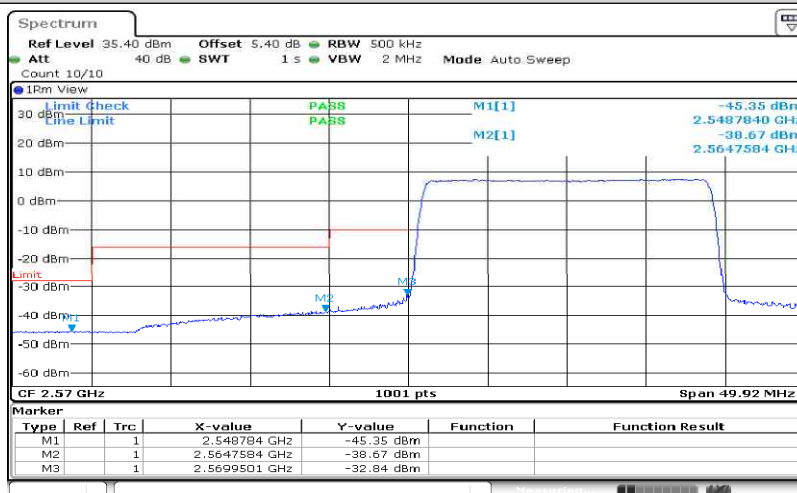


Band38-20MHz-QPSK-37850-1RB#0



Date: 27 MAY 2020 16:34:05

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



Date: 27.MAY.2020 16:35:41



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 transaction from their own legal obligations and liabilities and the undersigned hereby certifies that the information provided is true, 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.

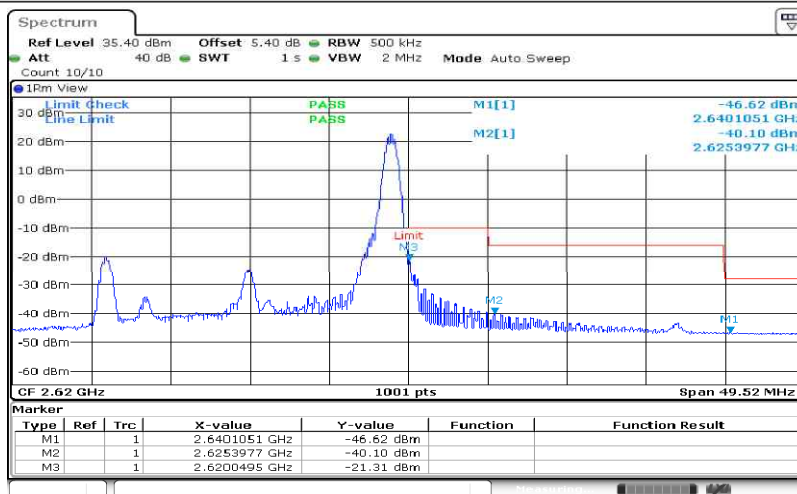
Attention to: For any request to inspect the report and/or certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com.

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

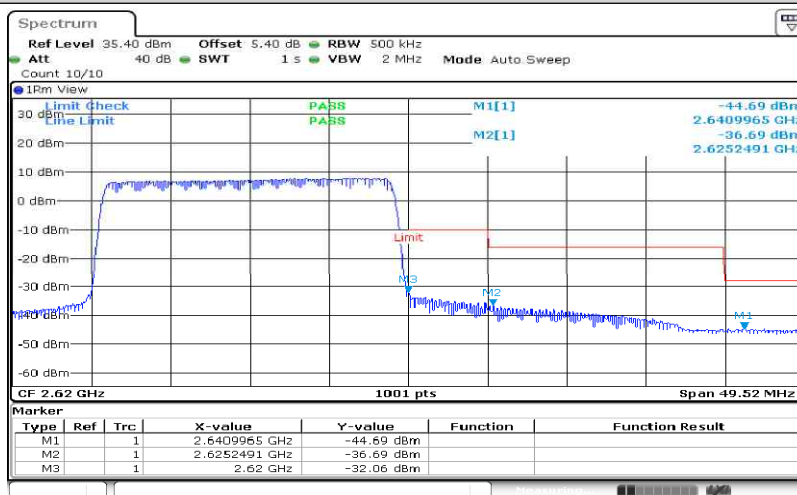
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-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.

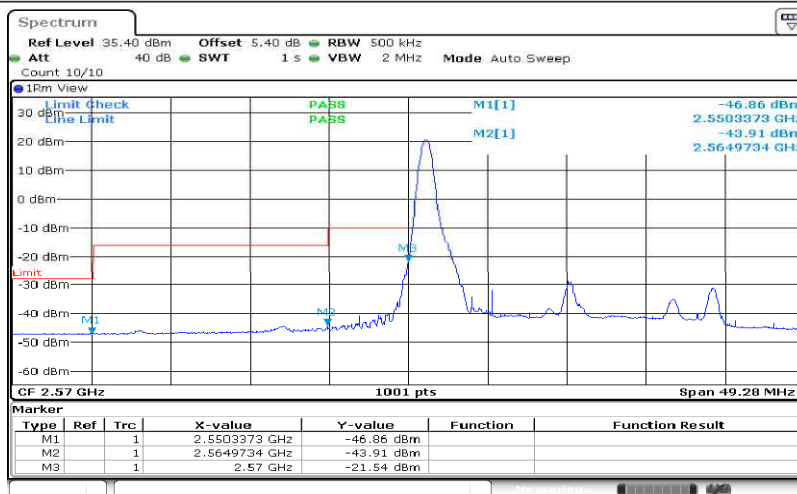
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

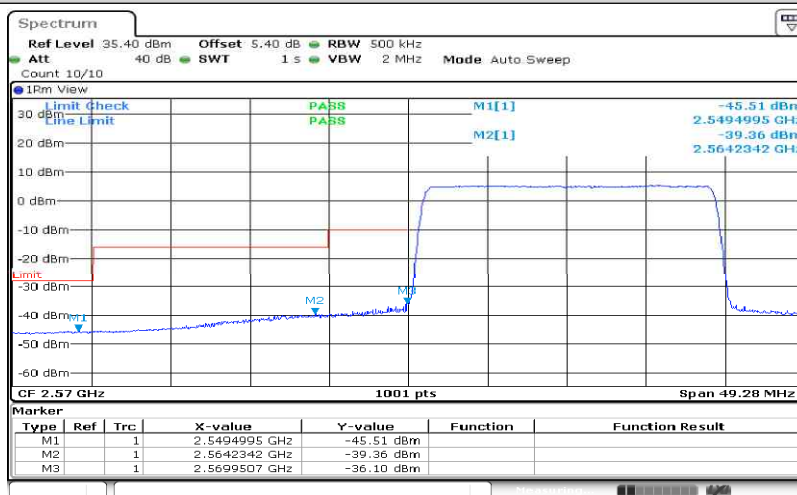
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-64QAM-37850-1RB#0



Band38-20MHz-64QAM-37850-100RB#0

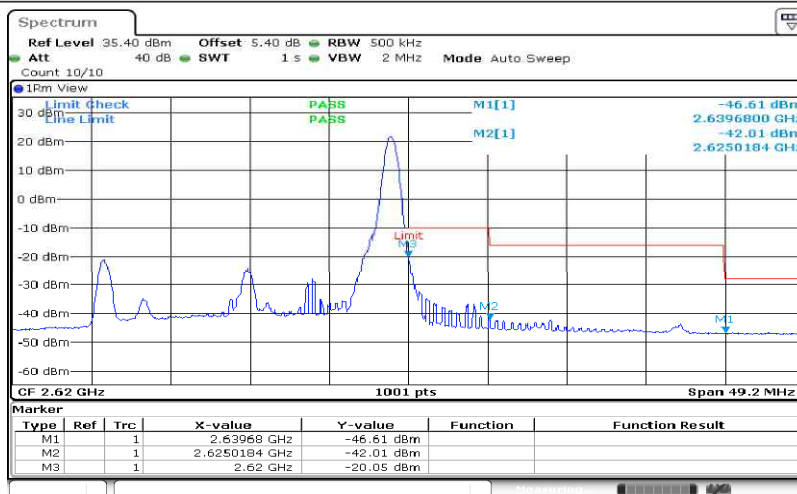


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

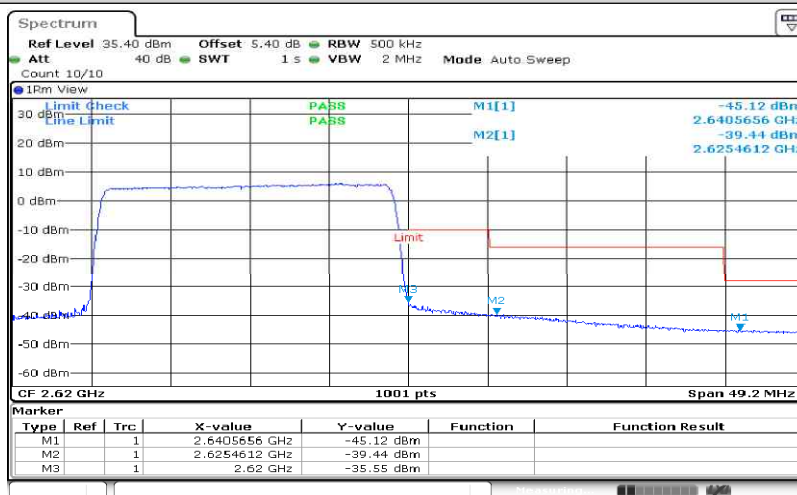
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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-64QAM-38150-1RB#99



Band38-20MHz-64QAM-38150-100RB#0

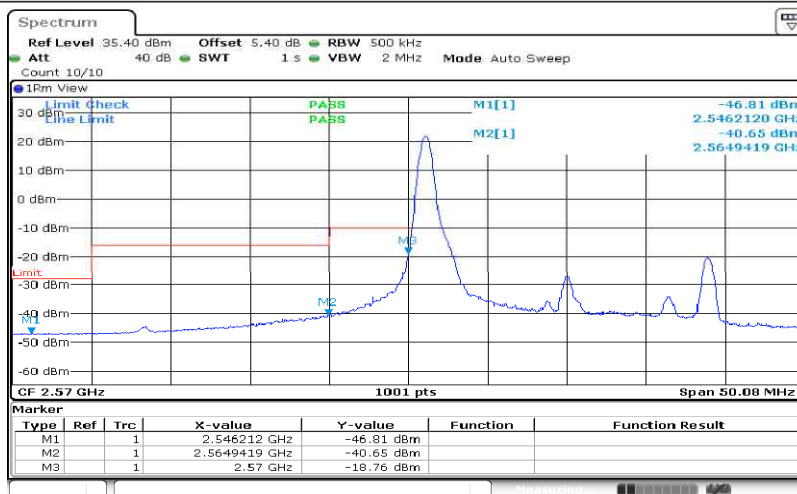


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

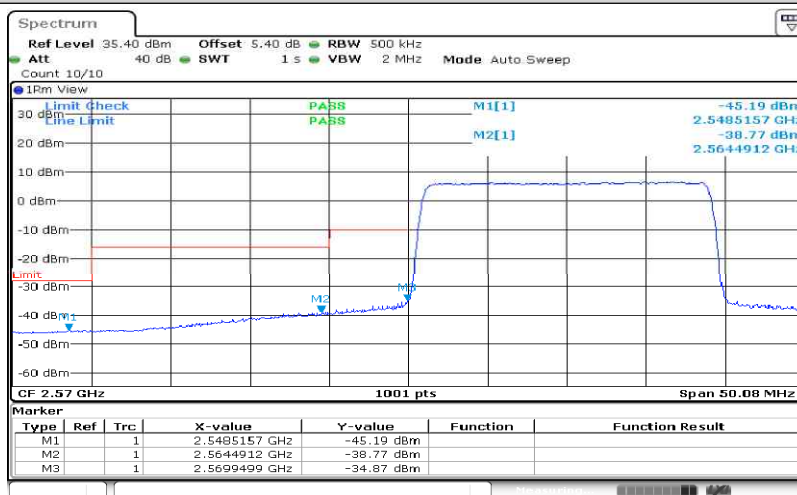
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

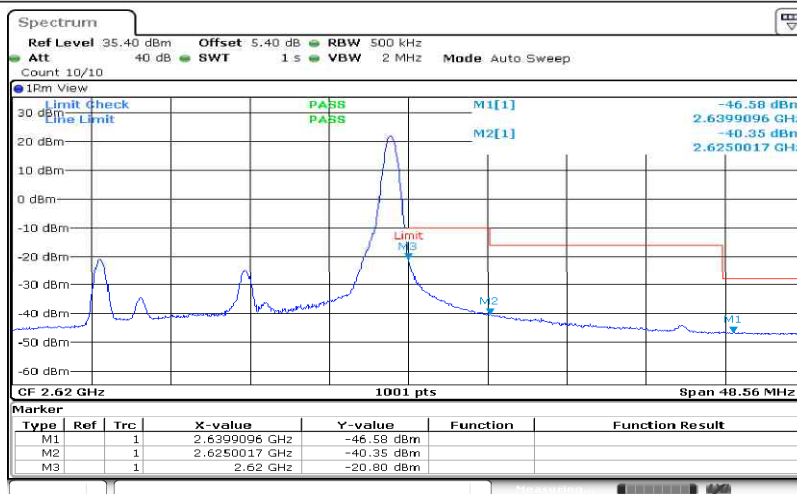


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

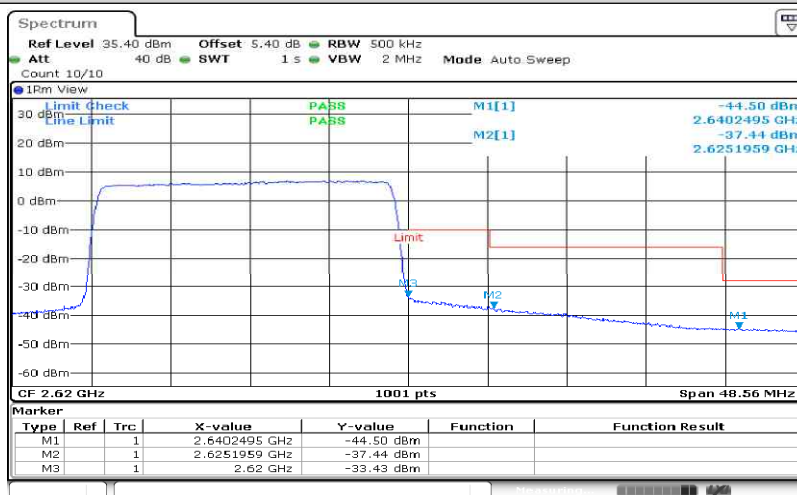
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

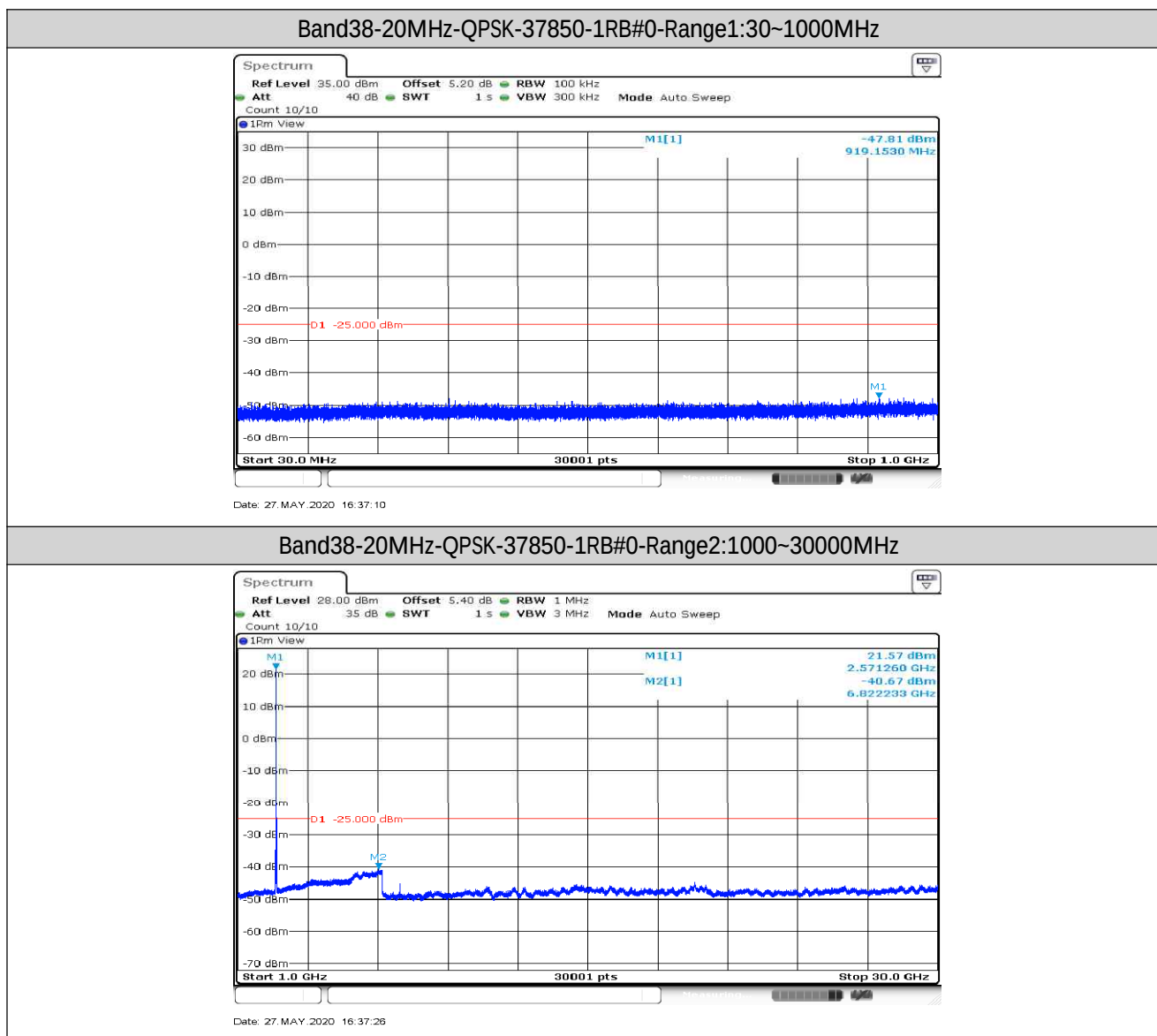
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots



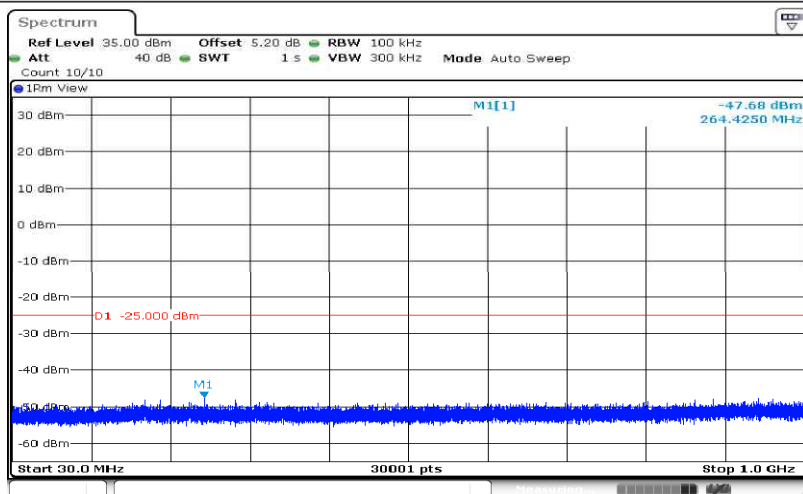
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

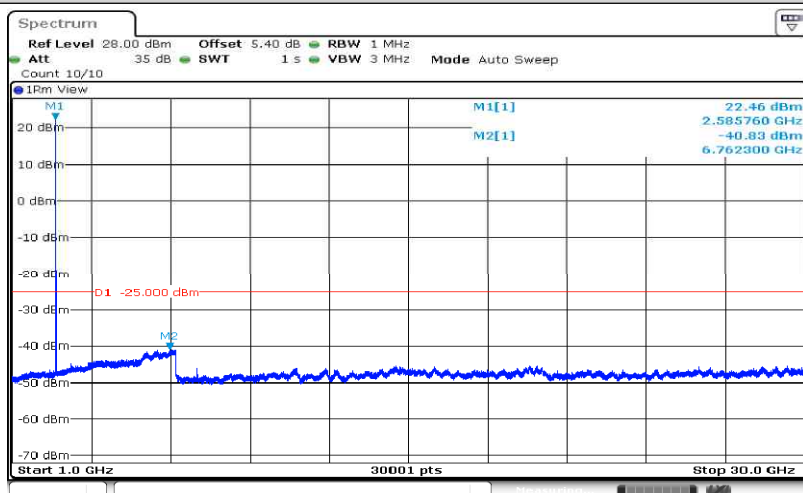
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 27. MAY. 2020 16:38:21

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

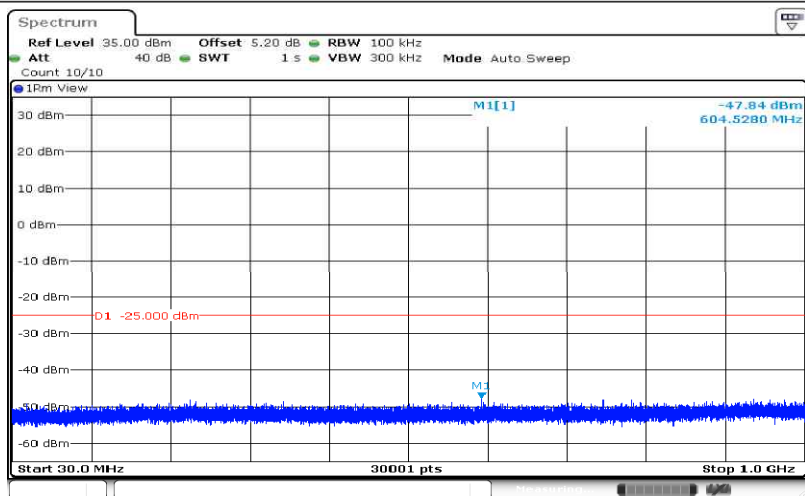


Date: 27. MAY. 2020 16:38:37



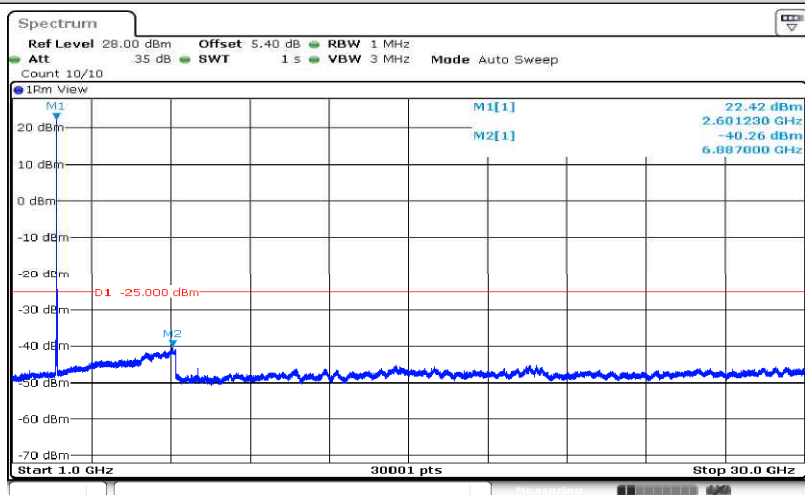


Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 27. MAY. 2020 16:39:32

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

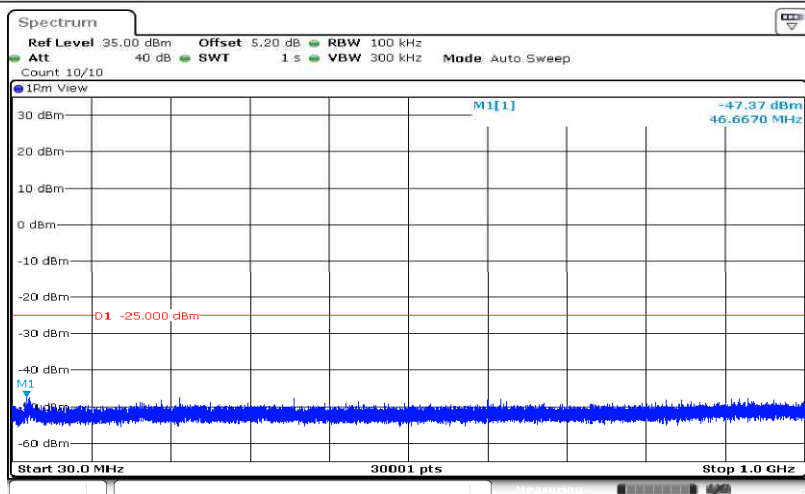


Date: 27. MAY. 2020 16:39:48



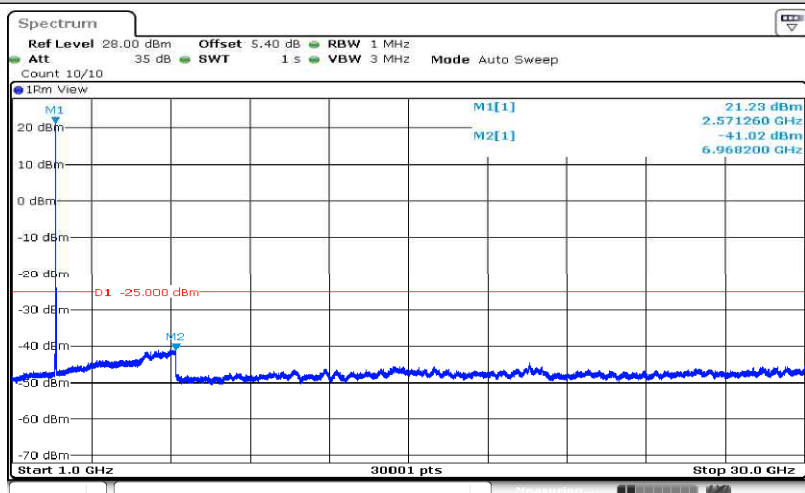


Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz



Date: 28.MAY.2020 03:22:33

Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz

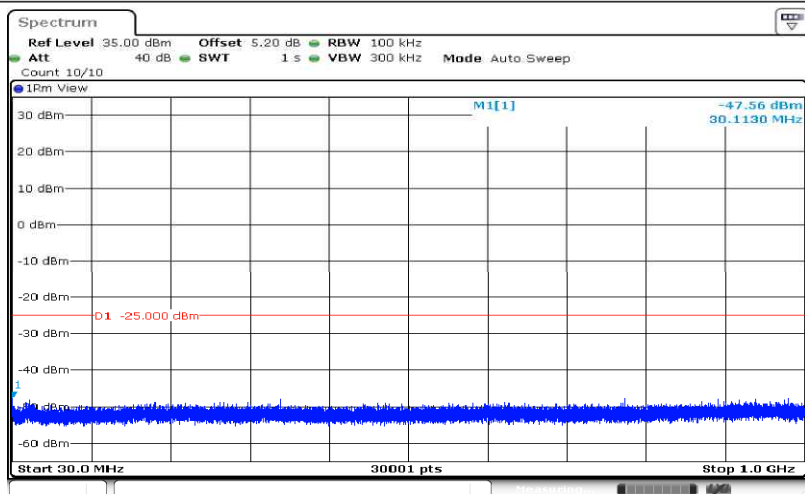


Date: 28.MAY.2020 03:22:49



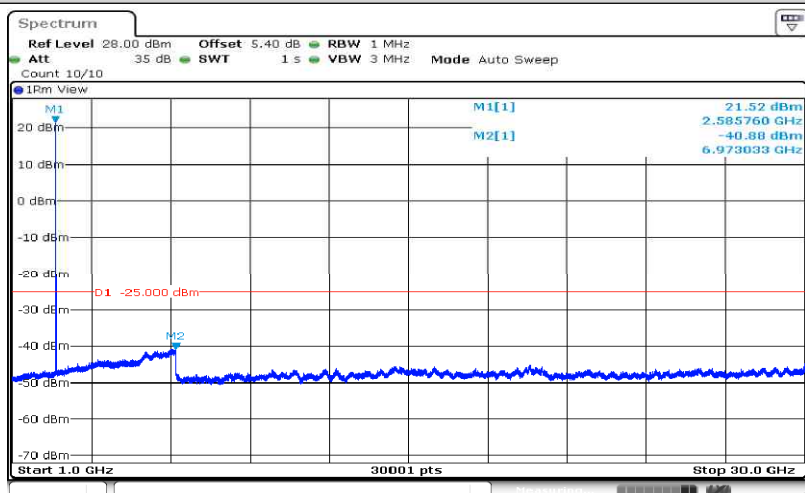


Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



Date: 28 MAY 2020 03:23:08

Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz

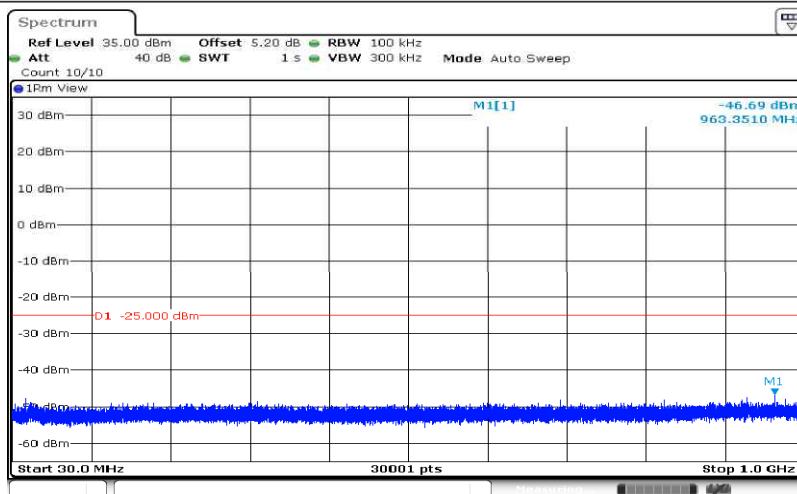


Date: 28 MAY 2020 03:23:24



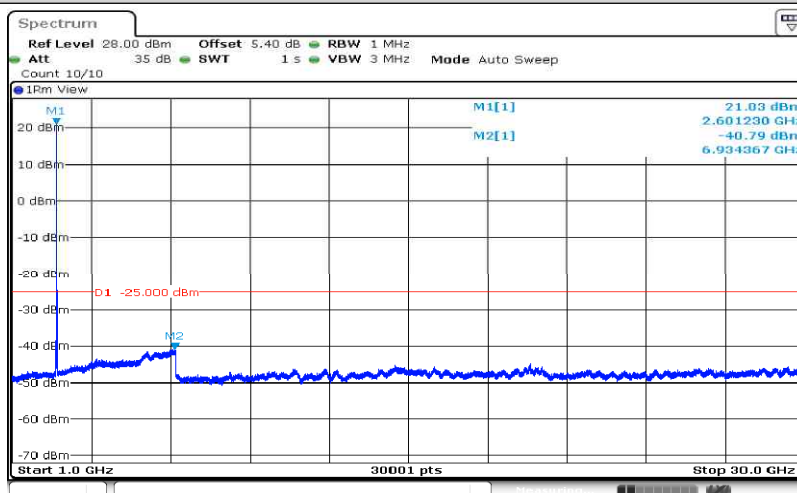


Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



Date: 28.MAY.2020 03:23:43

Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz

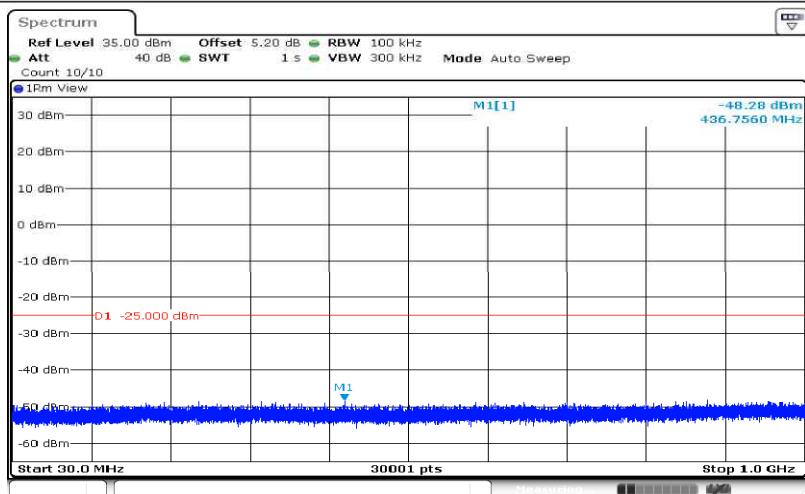


Date: 28.MAY.2020 03:24:00



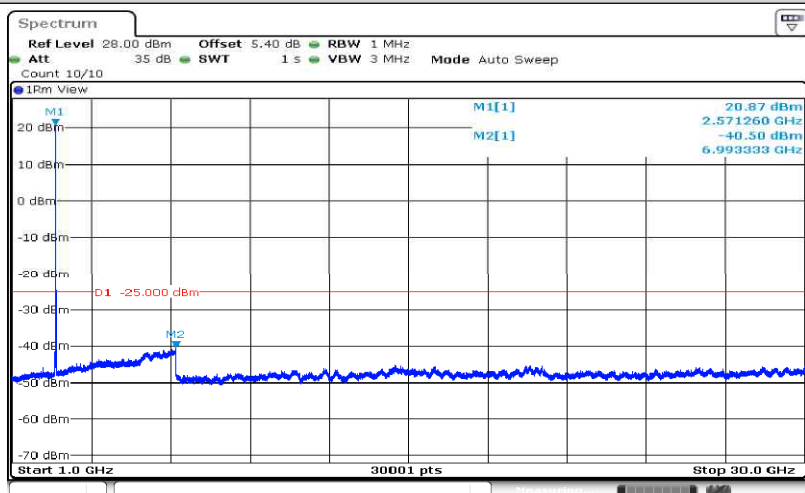


Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



Date: 27. MAY. 2020 16:37:45

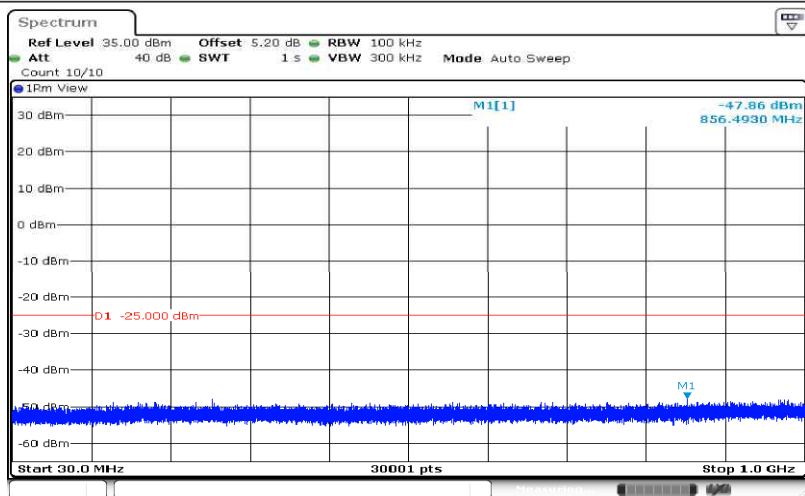
Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 27. MAY. 2020 16:38:02

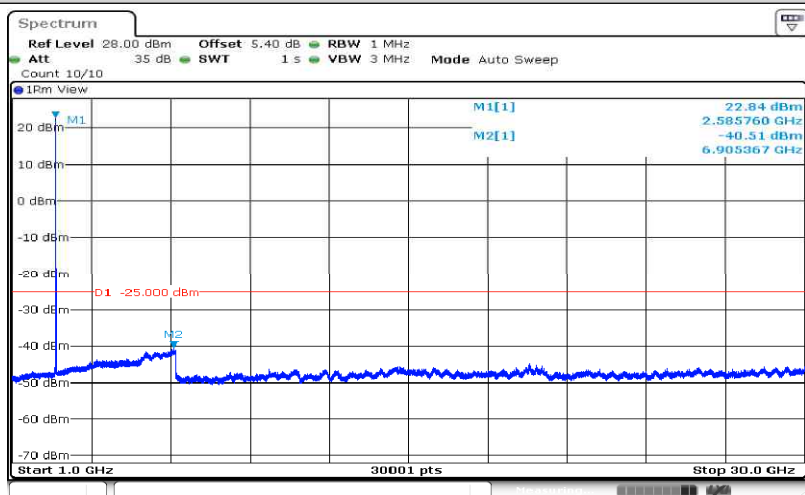


Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Date: 27.MAY.2020 16:38:56

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



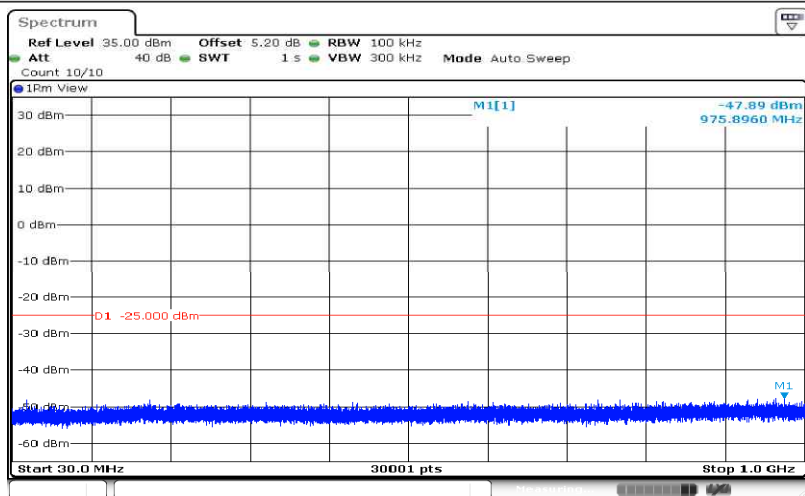
Date: 27.MAY.2020 16:39:13



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

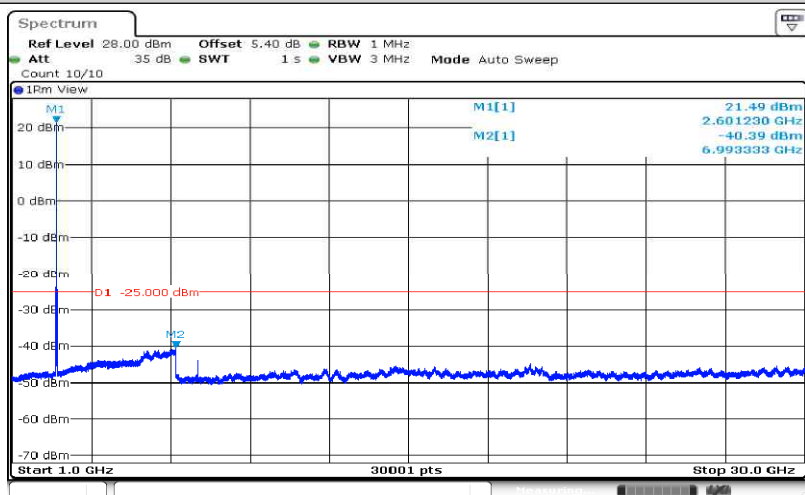


Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Date: 27. MAY. 2020 16:40:07

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



Date: 27. MAY. 2020 16:40:24





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
112.8421	-64.61	-25.00	39.61	Vertical
753.2682	-61.27	-25.00	36.27	Vertical
1650.1300	-44.40	-25.00	19.40	Vertical
5142.0714	-58.80	-25.00	33.80	Vertical
14491.8831	-47.53	-25.00	22.53	Vertical
17994.9998	-39.99	-25.00	14.99	Vertical
41.6891	-63.97	-25.00	38.97	Horizontal
229.7330	-67.42	-25.00	42.42	Horizontal
1590.5181	-44.85	-25.00	19.85	Horizontal
5142.0714	-57.77	-25.00	32.77	Horizontal
16386.4462	-43.12	-25.00	18.12	Horizontal
17304.9768	-44.61	-25.00	19.61	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.5554	-64.36	-25.00	39.36	Vertical
651.7526	-63.23	-25.00	38.23	Vertical
1736.5473	-44.15	-25.00	19.15	Vertical
5172.0724	-57.00	-25.00	32.00	Vertical
14498.3833	-47.67	-25.00	22.67	Vertical
17995.4999	-39.99	-25.00	14.99	Vertical
43.7262	-63.94	-25.00	38.94	Horizontal
234.1952	-66.76	-25.00	41.76	Horizontal
1799.7600	-43.42	-25.00	18.42	Horizontal
5172.0724	-54.90	-25.00	29.90	Horizontal
16391.9464	-43.55	-25.00	18.55	Horizontal
17254.9752	-44.64	-25.00	19.64	Horizontal



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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.3685	-63.89	-25.00	38.89	Vertical
578.3684	-63.79	-25.00	38.79	Vertical
1704.9410	-44.11	-25.00	19.11	Vertical
5202.0734	-58.27	-25.00	33.27	Vertical
14481.3827	-47.55	-25.00	22.55	Vertical
17993.9998	-40.24	-25.00	15.24	Vertical
43.3867	-64.42	-25.00	39.42	Horizontal
233.6617	-67.90	-25.00	42.90	Horizontal
1791.3583	-43.39	-25.00	18.39	Horizontal
5202.0734	-56.05	-25.00	31.05	Horizontal
16390.4463	-43.40	-25.00	18.40	Horizontal
17996.4999	-44.16	-25.00	19.16	Horizontal

Remark:

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





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-3.40	-0.001318	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-2.00	-0.000775	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-3.80	-0.001473	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-12.00	-0.004624	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-6.50	-0.002505	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-3.00	-0.001149	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-8.00	-0.003101	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-1.30	-0.000504	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-3.00	-0.001163	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-1.50	-0.000578	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-4.80	-0.001850	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-1.40	-0.000536	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-6.30	-0.002414	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.70	-0.001434	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-4.70	-0.001822	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-3.10	-0.001202	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-7.60	-0.002929	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-6.00	-0.002312	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-7.00	-0.002682	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	0.10	0.000038	±2.5	PASS

8.2. Frequency Vs Temperature

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



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
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	NV	-30	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-2.80	-0.001085	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	0.80	0.000310	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-2.70	-0.001047	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	0.10	0.000039	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-7.30	-0.002813	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-12.40	-0.004778	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-7.30	-0.002813	±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	-10.30	-0.003969	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-9.40	-0.003622	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-6.90	-0.002659	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	0.80	0.000307	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-5.30	-0.002031	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	0.90	0.000345	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-1.10	-0.000421	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-1.70	-0.000651	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-6.20	-0.002403	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-3.20	-0.001240	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-8.50	-0.003295	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-5.40	-0.002093	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-4.30	-0.001667	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-1.20	-0.000462	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-0.50	-0.000193	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-5.40	-0.002081	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-3.40	-0.001310	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-5.00	-0.001927	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-0.50	-0.000193	±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	64QAM	38000	100RB#0	NV	40	-1.60	-0.000617	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-1.90	-0.000732	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-3.10	-0.001188	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-7.50	-0.002874	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-2.10	-0.000805	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-2.40	-0.000920	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-6.80	-0.002605	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-1.10	-0.000421	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-2.60	-0.001008	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-0.60	-0.000233	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-1.40	-0.000543	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-3.80	-0.001473	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-4.10	-0.001589	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-5.50	-0.002132	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-2.90	-0.001124	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-1.80	-0.000698	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-10.30	-0.003969	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-6.70	-0.002582	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-10.60	-0.004085	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-1.70	-0.000651	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-2.70	-0.001034	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-2.70	-0.001034	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-1.20	-0.000460	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-4.80	-0.001839	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	0.80	0.000307	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-2.00	-0.000766	±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