



Appendix B

E-UTRA Band 38



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

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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1.	TEST RESULT.....	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	18
2.1.	TEST RESULT.....	18
2.2.	TEST PLOTS	18
3.	MODULATION CHARACTERISTICS.....	23
3.1.	TEST MODE = LTE /TM1 20MHZ.....	23
3.1.1.	TEST CHANNEL = MCH	23
3.2.	TEST MODE = LTE /TM2 20MHZ.....	24
3.2.1.	TEST CHANNEL = MCH	24
3.3.	TEST MODE = LTE /TM3 20MHZ.....	25
3.3.1.	TEST CHANNEL = MCH	25
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	26
4.1.	TEST RESULT.....	26
4.2.	TEST PLOTS	27
5.	BAND EDGE COMPLIANCE	46
5.1.	TEST PLOTS	46
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	71
6.1.	TEST PLOTS	71
7.	FIELD STRENGTH OF SPURIOUS RADIATION	81
7.1.	Test Band = LTE_38_TM1 CONFIG 0.....	81
7.1.1.	Test Channel = Low Channel	81
7.2.	Test Band = LTE_38_TM1 CONFIG 0.....	82
7.2.1.	Test Channel = Low Channel	82
7.3.	Test Band = LTE_38_TM1 CONFIG 0.....	83
7.3.1.	Test Channel = Mid Channel	83
7.4.	Test Band = LTE_38_TM1 CONFIG 0.....	84
7.4.1.	Test Channel = Mid Channel	84
7.5.	Test Band = LTE_38_TM1 CONFIG 0.....	85
7.5.1.	Test Channel = High Channel	85



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

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

7.6.	Test Band = LTE_38_TM1 CONFIG 0	86
7.6.1.	Test Channel = High Channel	86
7.7.	Test Band = LTE_38_TM1 CONFIG 1	87
7.7.1.	Test Channel = Low Channel	87
7.8.	Test Band = LTE_38_TM1 CONFIG 1	88
7.8.1.	Test Channel = Low Channel	88
7.9.	Test Band = LTE_38_TM1 CONFIG 1	89
7.9.1.	Test Channel = Mid Channel	89
7.10.	Test Band = LTE_38_TM1 CONFIG 1	90
7.10.1.	Test Channel = Mid Channel	90
7.11.	Test Band = LTE_38_TM1 CONFIG 1	91
7.11.1.	Test Channel = High Channel	91
7.12.	Test Band = LTE_38_TM1 CONFIG 1	92
7.12.1.	Test Channel = High Channel	92

8.	FREQUENCY STABILITY	93
8.1.	FREQUENCY VS VOLTAGE	93
8.2.	FREQUENCY VS TEMPERATURE	94



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

CONFIG 0 :

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	24.01	23.81	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	24.06	23.86	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	24.19	23.99	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	23.16	22.96	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	23.17	22.97	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	23.21	23.01	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	23.17	22.97	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	24.53	24.33	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	24.52	24.32	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.45	24.25	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	23.50	23.30	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	23.56	23.36	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	23.60	23.40	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.60	23.40	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	24.56	24.36	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.44	24.24	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.65	24.45	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	23.67	23.47	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	23.72	23.52	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	23.76	23.56	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	23.58	23.38	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	23.10	22.90	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.98	22.78	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	23.05	22.85	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	22.12	21.92	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	22.07	21.87	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	22.09	21.89	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.97	21.77	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	23.46	23.26	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.49	23.29	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	23.47	23.27	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
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38	5MHz	16QAM	38000	12RB#0	22.48	22.28	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	22.47	22.27	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	22.65	22.45	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.41	22.21	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	23.64	23.44	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.51	23.31	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	23.54	23.34	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	22.88	22.68	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	22.72	22.52	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	22.80	22.60	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.61	22.41	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	22.10	21.90	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.96	21.76	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	22.04	21.84	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	21.09	20.89	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	21.02	20.82	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	21.09	20.89	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.96	20.76	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	22.44	22.24	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	22.47	22.27	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	22.42	22.22	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	21.45	21.25	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	21.46	21.26	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	21.61	21.41	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	21.36	21.16	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	22.61	22.41	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	22.50	22.30	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	22.52	22.32	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	21.84	21.64	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	21.67	21.47	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	21.80	21.60	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	21.56	21.36	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.12	23.92	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	24.24	24.04	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.61	24.41	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	23.25	23.05	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	23.40	23.20	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	23.35	23.15	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



Band38	10MHz	QPSK	37800	50RB#0	23.23	23.03	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.59	24.39	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.49	24.29	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.54	24.34	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#0	23.55	23.35	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	23.52	23.32	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	23.59	23.39	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	23.50	23.30	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.74	24.54	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.54	24.34	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.75	24.55	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	23.67	23.47	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	23.67	23.47	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	23.91	23.71	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	23.71	23.51	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.08	22.88	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	23.24	23.04	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.54	23.34	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	22.17	21.97	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	22.24	22.04	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	22.40	22.20	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	22.35	22.15	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.58	23.38	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.49	23.29	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	23.58	23.38	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	22.58	22.38	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	22.64	22.44	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	22.58	22.38	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.75	22.55	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.71	23.51	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.66	23.46	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	23.85	23.65	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	22.74	22.54	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	22.69	22.49	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	22.87	22.67	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.77	22.57	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	22.09	21.89	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.96	21.76	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
 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	10MHz	64QAM	37800	1RB#49	22.02	21.82	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	21.08	20.88	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	21.05	20.85	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	21.06	20.86	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.92	20.72	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	22.42	22.22	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	22.47	22.27	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	22.43	22.23	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	21.45	21.25	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	21.43	21.23	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	21.61	21.41	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	21.38	21.18	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	22.64	22.44	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	22.46	22.26	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	22.50	22.30	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	21.84	21.64	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	21.70	21.50	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	21.76	21.56	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	21.58	21.38	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.44	24.24	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	24.64	24.44	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.33	23.13	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#0	23.27	23.07	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#18	23.32	23.12	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#37	23.33	23.13	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	24.71	24.51	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.48	24.28	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.52	24.32	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.64	23.44	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#0	23.67	23.47	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#18	23.49	23.29	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#37	23.64	23.44	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	24.51	24.31	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.49	24.29	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.67	24.47	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.73	23.53	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#0	23.61	23.41	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	23.78	23.58	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 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	15MHz	QPSK	38175	38RB#37	23.69	23.49	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	23.15	22.95	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.31	23.11	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.46	23.26	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.28	22.08	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#0	22.46	22.26	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#18	22.18	21.98	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#37	22.26	22.06	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	23.40	23.20	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	23.47	23.27	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	23.58	23.38	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.54	22.34	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#0	22.62	22.42	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#18	22.71	22.51	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#37	22.48	22.28	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	23.55	23.35	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.68	23.48	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	23.86	23.66	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.65	22.45	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#0	22.83	22.63	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.84	22.64	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.81	22.61	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	22.10	21.90	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.98	21.78	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	22.05	21.85	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.07	20.87	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#0	21.04	20.84	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#18	21.07	20.87	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#37	20.97	20.77	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	22.42	22.22	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	22.49	22.29	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	22.42	22.22	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.47	21.27	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#0	21.45	21.25	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#18	21.60	21.40	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#37	21.37	21.17	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	22.64	22.44	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	22.49	22.29	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
 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	15MHz	64QAM	38175	1RB#38	22.53	22.33	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	21.85	21.65	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#0	21.71	21.51	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#18	21.75	21.55	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#37	21.57	21.37	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	24.44	24.24	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.97	23.77	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	24.17	23.97	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.31	24.11	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	23.15	22.95	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	23.20	23.00	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	23.54	23.34	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.20	23.00	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	24.32	24.12	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	24.26	24.06	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.41	24.21	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	23.60	23.40	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	23.62	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	23.62	23.42	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	23.45	23.25	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	24.69	24.49	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	24.77	24.57	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.76	24.56	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	23.60	23.40	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	23.66	23.46	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	23.65	23.45	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	23.75	23.55	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.02	22.82	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.20	23.00	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.39	23.19	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	22.07	21.87	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	22.38	22.18	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	22.41	22.21	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.33	22.13	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.49	23.29	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.41	23.21	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.55	23.35	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	22.64	22.44	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

Band38	20MHz	16QAM	38000	50RB#25	22.41	22.21	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	22.81	22.61	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.41	22.21	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	23.56	23.36	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	23.54	23.34	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.69	23.49	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	22.69	22.49	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	22.82	22.62	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	22.88	22.68	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.63	22.43	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	22.05	21.85	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.97	21.77	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	22.02	21.82	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	21.09	20.89	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	21.02	20.82	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	21.06	20.86	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.93	20.73	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	22.41	22.21	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	22.44	22.24	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	22.44	22.24	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	21.45	21.25	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	21.44	21.24	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	21.61	21.41	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	21.41	21.21	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	22.60	22.40	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	22.48	22.28	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	22.49	22.29	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	21.85	21.65	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	21.67	21.47	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	21.80	21.60	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	21.56	21.36	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
 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



CONFIG 1 :

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.79	22.89	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.77	22.87	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.71	22.81	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.65	21.75	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.73	21.83	33.00	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.81	21.91	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.78	21.88	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.43	22.53	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.26	22.36	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.25	22.35	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.29	21.39	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.30	21.40	33.00	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.42	21.52	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.34	21.44	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.76	22.86	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.74	22.84	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.76	22.86	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.81	21.91	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.95	22.05	33.00	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.87	21.97	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.82	21.92	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.67	21.77	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.85	21.95	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.79	21.89	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.64	20.74	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.77	20.87	33.00	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.75	20.85	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.78	20.88	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.48	21.58	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.41	21.51	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.32	21.42	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.33	20.43	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.43	20.53	33.00	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.41	20.51	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.43	20.53	33.00	PASS



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

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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.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#0	21.81	21.91	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.80	21.90	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.77	21.87	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.81	20.91	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.91	21.01	33.00	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.80	20.90	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.01	21.11	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	20.63	20.73	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	20.85	20.95	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#24	20.79	20.89	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#0	19.60	19.70	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#6	19.72	19.82	33.00	PASS
Band38	5MHz	64QAM	37775	12RB#13	19.75	19.85	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	19.74	19.84	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	20.46	20.56	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	20.40	20.50	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	20.28	20.38	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#0	19.29	19.39	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#6	19.43	19.53	33.00	PASS
Band38	5MHz	64QAM	38000	12RB#13	19.37	19.47	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	19.40	19.50	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	20.76	20.86	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	20.77	20.87	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.73	20.83	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#0	19.79	19.89	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#6	19.86	19.96	33.00	PASS
Band38	5MHz	64QAM	38225	12RB#13	19.76	19.86	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.00	20.10	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.80	22.90	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.88	22.98	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.73	22.83	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.76	21.86	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.81	21.91	33.00	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.84	21.94	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.84	21.94	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.41	22.51	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.27	22.37	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.32	22.42	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



Band38	10MHz	QPSK	38000	25RB#0	21.38	21.48	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.28	21.38	33.00	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.45	21.55	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.37	21.47	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.73	22.83	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.70	22.80	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.73	22.83	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.87	21.97	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.93	22.03	33.00	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.84	21.94	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.79	21.89	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.65	21.75	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.90	22.00	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.78	21.88	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.68	20.78	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.73	20.83	33.00	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.78	20.88	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.77	20.87	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.54	21.64	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.48	21.58	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.33	21.43	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.42	20.52	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.45	20.55	33.00	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.43	20.53	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.45	20.55	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.87	21.97	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.81	21.91	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.88	21.98	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.94	21.04	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.91	21.01	33.00	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.86	20.96	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.07	21.17	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.64	20.74	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.83	20.93	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.77	20.87	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#0	19.60	19.70	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#12	19.75	19.85	33.00	PASS
Band38	10MHz	64QAM	37800	25RB#25	19.71	19.81	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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



Band38	10MHz	64QAM	37800	50RB#0	19.75	19.85	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.48	20.58	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	20.39	20.49	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	20.31	20.41	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#0	19.33	19.43	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#12	19.43	19.53	33.00	PASS
Band38	10MHz	64QAM	38000	25RB#25	19.40	19.50	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	19.39	19.49	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	20.77	20.87	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	20.76	20.86	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.77	20.87	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.81	19.91	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.89	19.99	33.00	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.78	19.88	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.00	20.10	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.83	22.93	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.77	22.87	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.97	23.07	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.82	21.92	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.79	21.89	33.00	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.78	21.88	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.99	22.09	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.62	22.72	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.40	22.50	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.29	22.39	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.47	21.57	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.43	21.53	33.00	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.52	21.62	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.39	21.49	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.59	22.69	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.48	22.58	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.60	22.70	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.54	21.64	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	21.60	21.70	33.00	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.77	21.87	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.71	21.81	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.83	21.93	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.78	21.88	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
 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	15MHz	16QAM	37825	1RB#74	21.75	21.85	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#0	20.72	20.82	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#18	20.82	20.92	33.00	PASS
Band38	15MHz	16QAM	37825	38RB#37	20.87	20.97	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.79	20.89	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.56	21.66	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.43	21.53	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.25	21.35	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.54	20.64	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#18	20.48	20.58	33.00	PASS
Band38	15MHz	16QAM	38000	38RB#37	20.51	20.61	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.48	20.58	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.74	21.84	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.65	21.75	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.55	21.65	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.68	20.78	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.67	20.77	33.00	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.62	20.72	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.62	20.72	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.62	20.72	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.85	20.95	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.77	20.87	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#0	19.60	19.70	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#18	19.76	19.86	33.00	PASS
Band38	15MHz	64QAM	37825	38RB#37	19.75	19.85	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	19.73	19.83	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.47	20.57	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.38	20.48	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.31	20.41	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#0	19.32	19.42	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#18	19.40	19.50	33.00	PASS
Band38	15MHz	64QAM	38000	38RB#37	19.36	19.46	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	19.40	19.50	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.76	20.86	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	20.75	20.85	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.74	20.84	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#0	19.76	19.86	33.00	PASS
Band38	15MHz	64QAM	38175	38RB#18	19.89	19.99	33.00	PASS



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

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

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.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	38RB#37	19.80	19.90	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.98	20.08	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.83	22.93	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.82	22.92	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.71	22.81	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.75	21.85	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.73	21.83	33.00	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.70	21.80	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.05	22.15	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.68	22.78	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.38	22.48	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.36	22.46	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.54	21.64	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.49	21.59	33.00	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.43	21.53	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.50	21.60	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.33	22.43	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.14	22.24	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.25	22.35	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.16	21.26	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.29	21.39	33.00	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.27	21.37	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.40	21.50	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.81	21.91	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.87	21.97	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.72	21.82	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.71	20.81	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.00	21.10	33.00	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.73	20.83	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.01	21.11	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.68	21.78	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.51	21.61	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.45	21.55	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.65	20.75	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.57	20.67	33.00	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.68	20.78	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.61	20.71	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.39	21.49	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
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38	20MHz	16QAM	38150	1RB#49	21.24	21.34	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.16	21.26	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.30	20.40	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.38	20.48	33.00	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.33	20.43	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.47	20.57	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.63	20.73	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.85	20.95	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.79	20.89	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#0	19.63	19.73	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#25	19.77	19.87	33.00	PASS
Band38	20MHz	64QAM	37850	50RB#50	19.71	19.81	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	19.73	19.83	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.43	20.53	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.41	20.51	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.27	20.37	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#0	19.30	19.40	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#25	19.42	19.52	33.00	PASS
Band38	20MHz	64QAM	38000	50RB#50	19.36	19.46	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	19.41	19.51	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.80	20.90	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	20.76	20.86	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.73	20.83	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.78	19.88	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.88	19.98	33.00	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.80	19.90	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.00	20.10	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]



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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

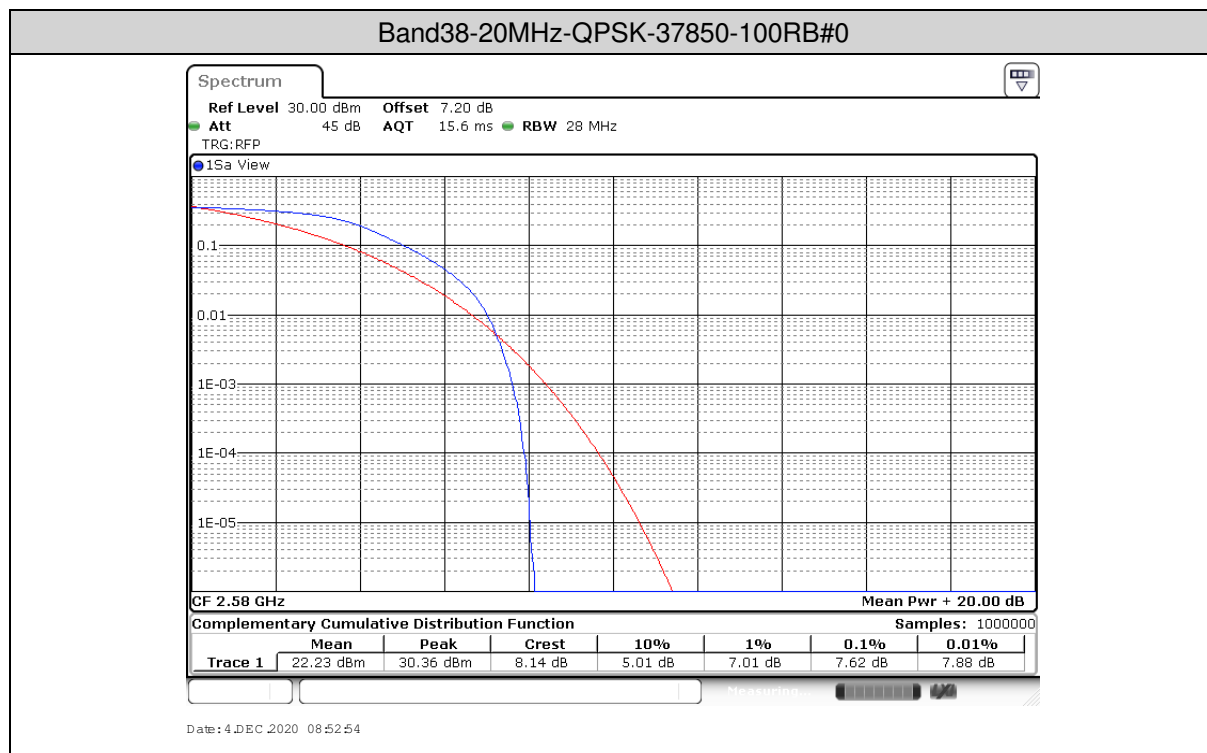
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2. Peak-to-Average Ratio (CCDF)

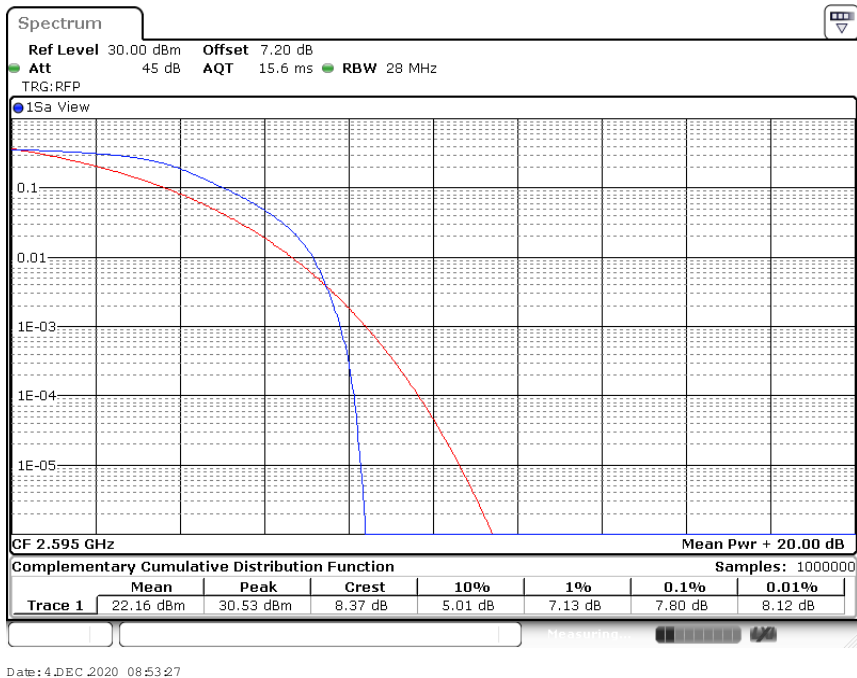
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	7.62	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.80	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.86	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.70	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	8.93	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.28	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	9.42	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	9.57	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	9.62	13	PASS

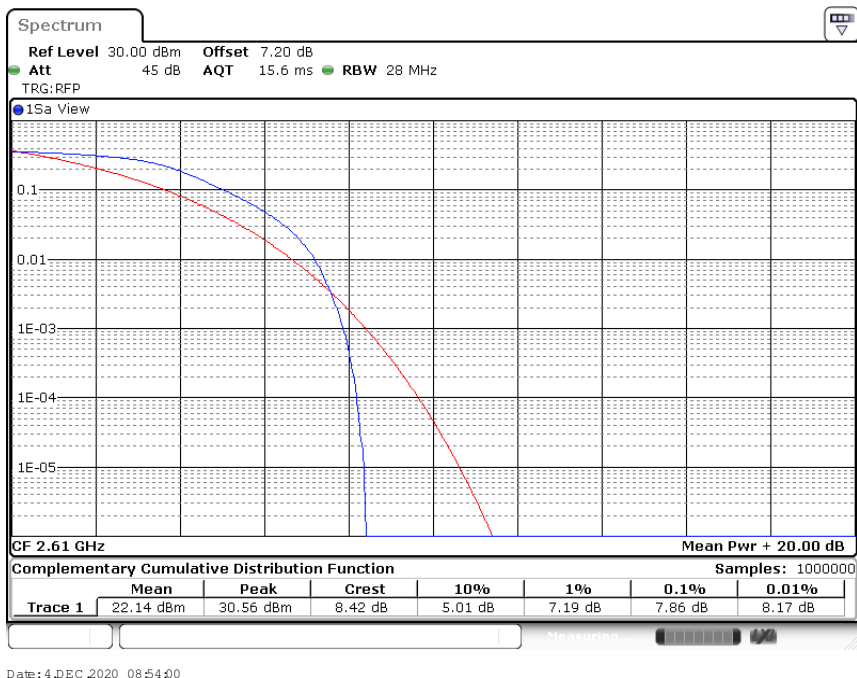
2.2. Test Plots



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



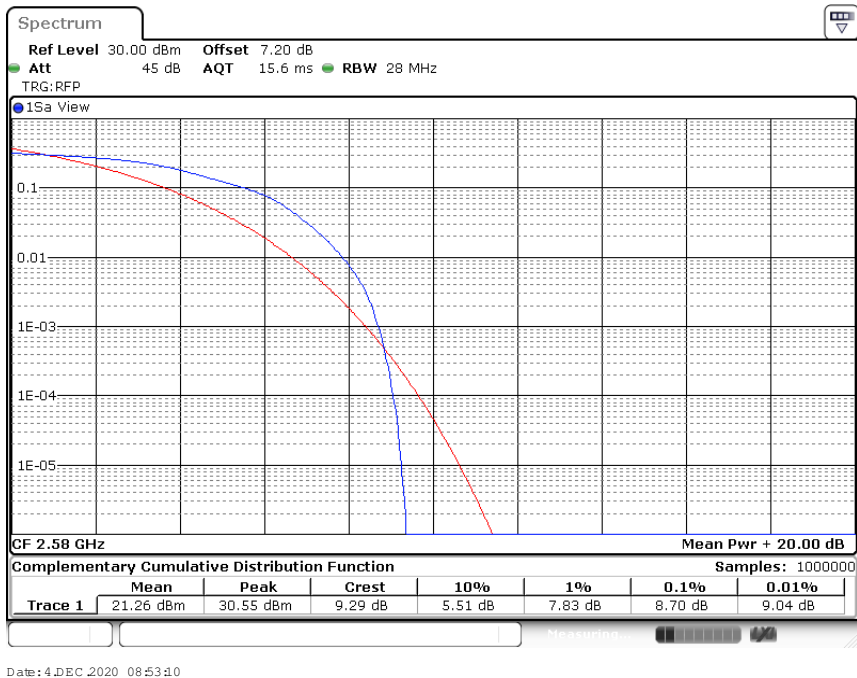
Band38-20MHz-QPSK-38150-100RB#0



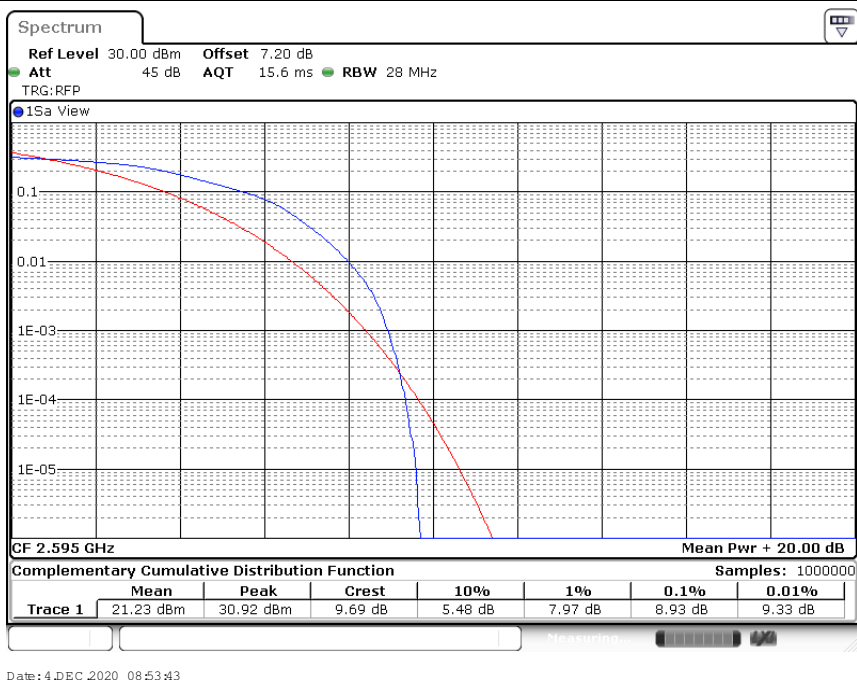
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

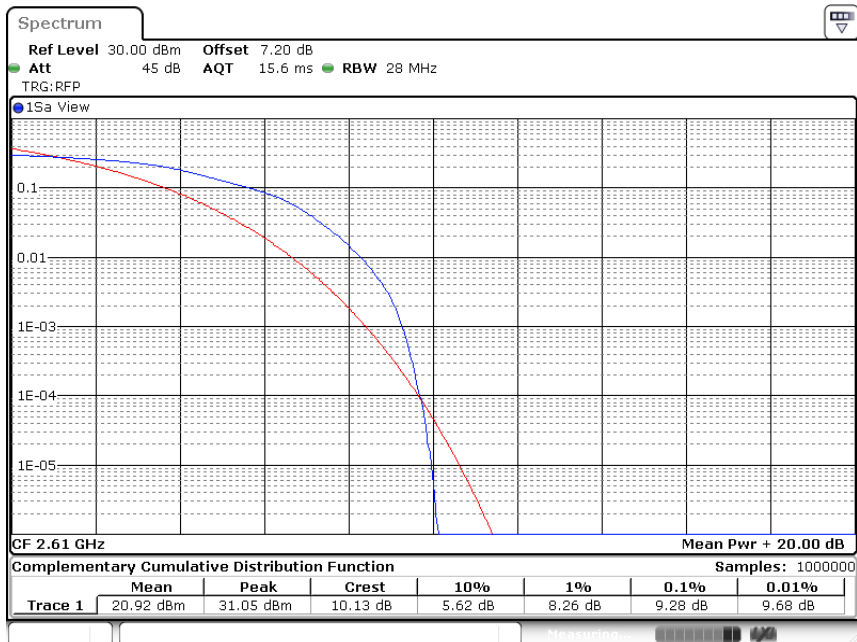
Band38-20MHz-16QAM-37850-100RB#0



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

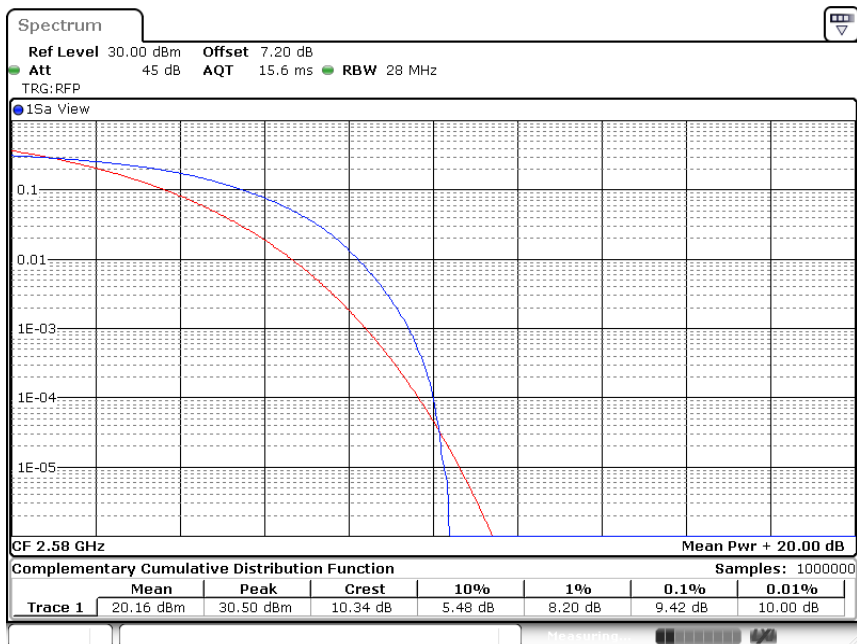


Band38-20MHz-16QAM-38150-100RB#0



Date: 4 DEC 2020 08:54:16

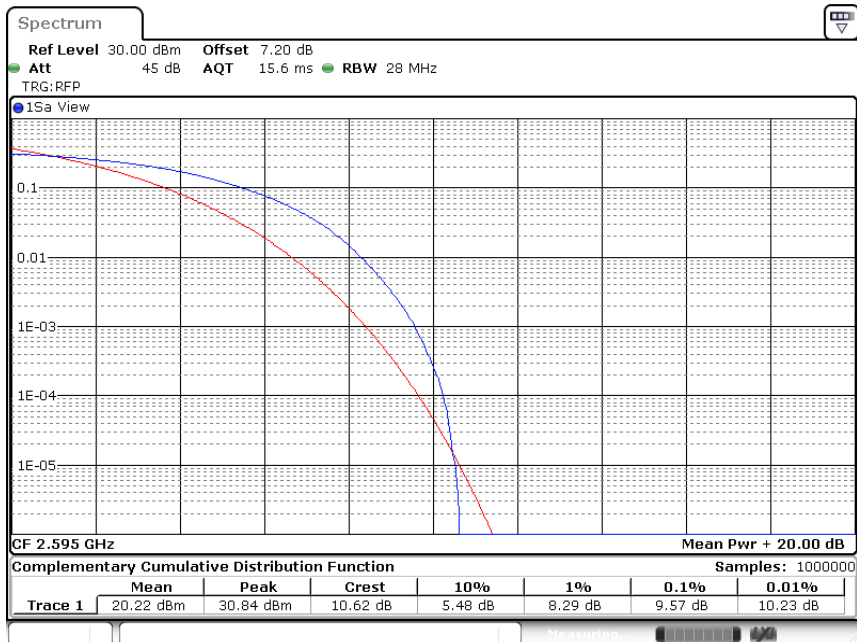
Band38-20MHz-64QAM-37850-100RB#0



Date: 4 DEC 2020 09:23:19

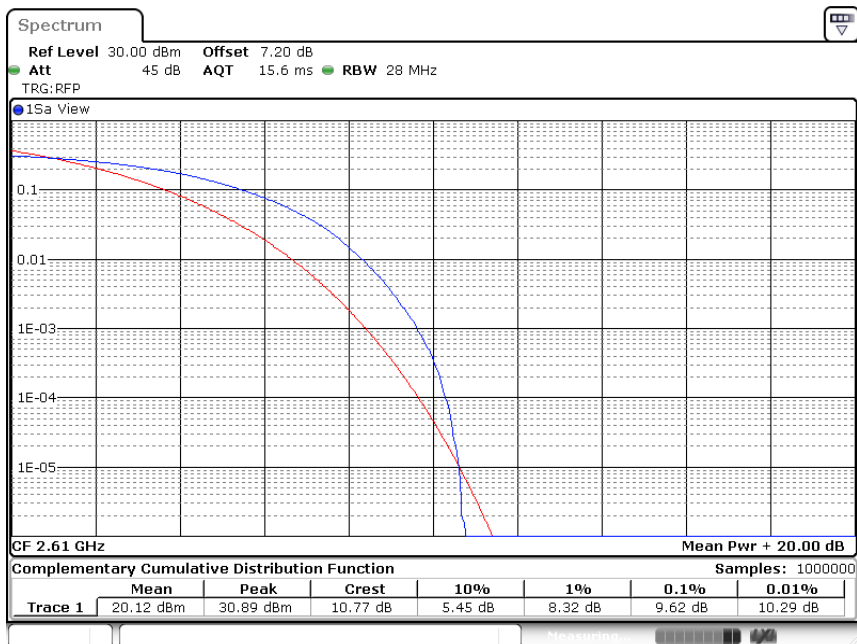


Band38-20MHz-64QAM-38000-100RB#0



Date: 4 DEC 2020 09:23:35

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



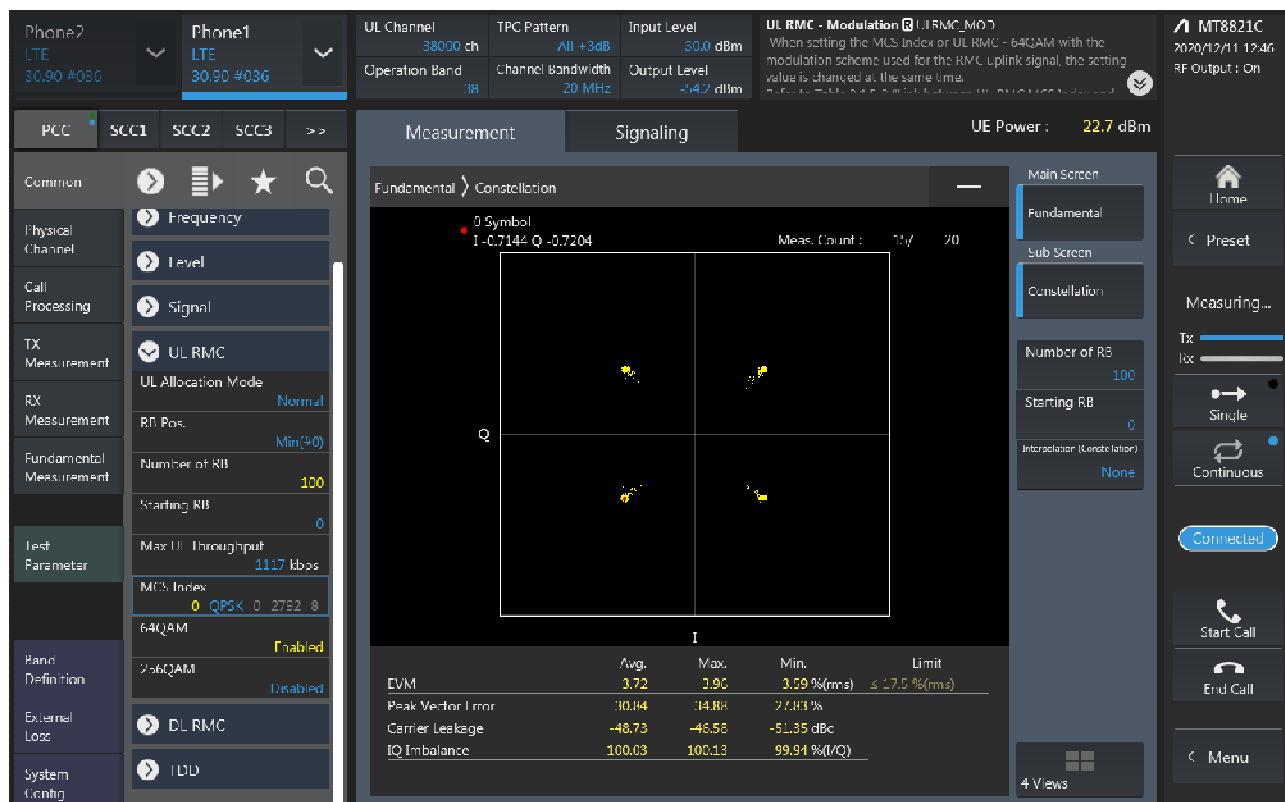
Date: 4 DEC 2020 09:23:52



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



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

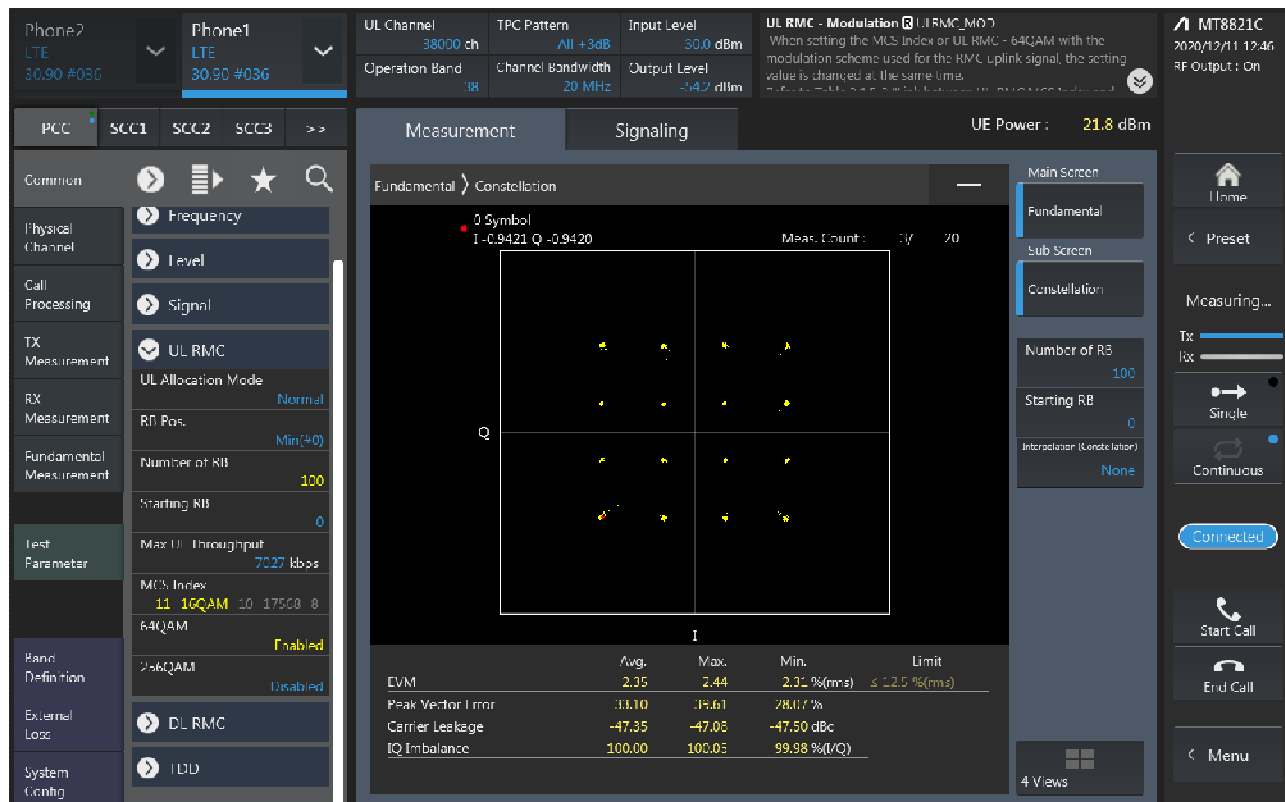
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

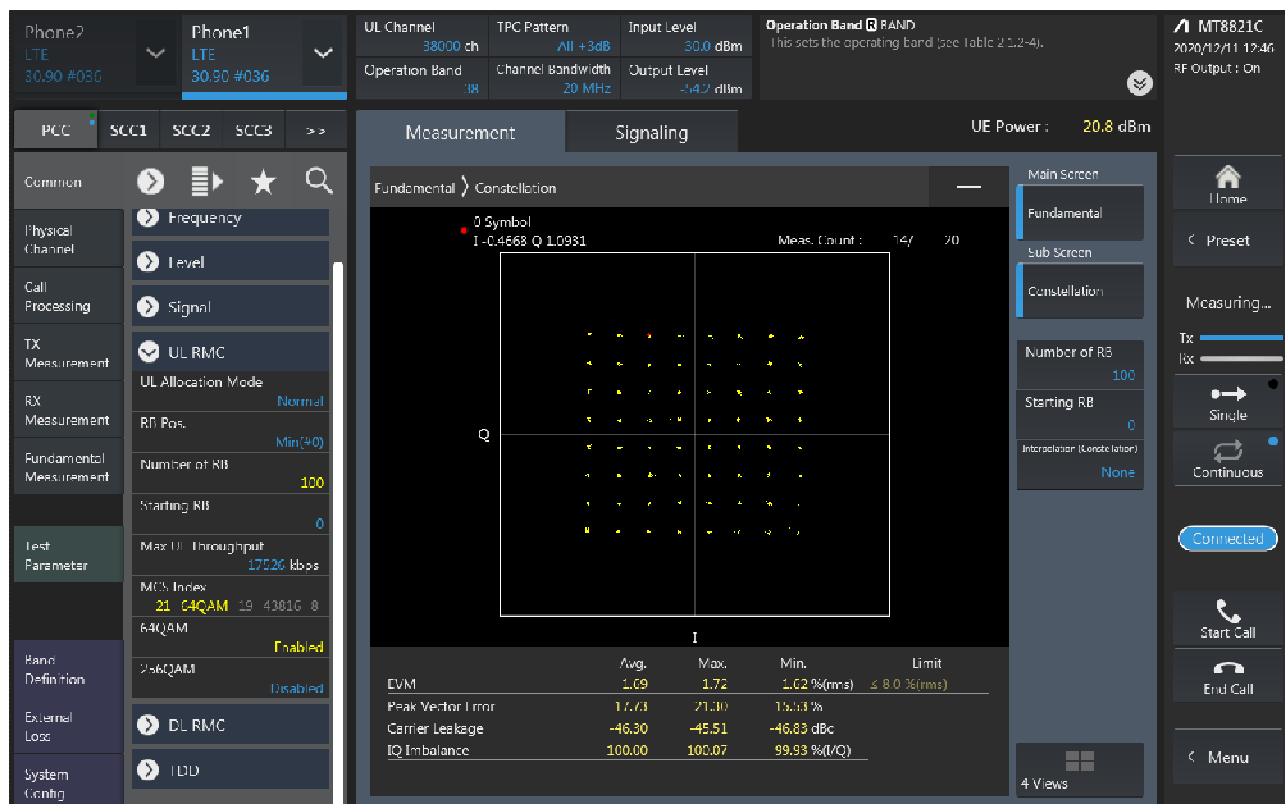
3.2. Test Mode = LTE /TM2 20MHz

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	4.476	4.900	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.910	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.466	4.890	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.940	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.950	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.940	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.486	4.980	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.486	5.000	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.486	5.000	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.911	9.680	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.911	9.660	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.911	9.680	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.911	9.660	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.911	9.660	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.600	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.931	9.720	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.660	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.931	9.720	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.457	14.850	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.457	14.880	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.457	14.880	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.457	14.790	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.427	14.730	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.427	14.760	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.457	14.700	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.427	14.700	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.427	14.700	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	19.480	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.902	19.520	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.902	19.480	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.902	19.360	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.

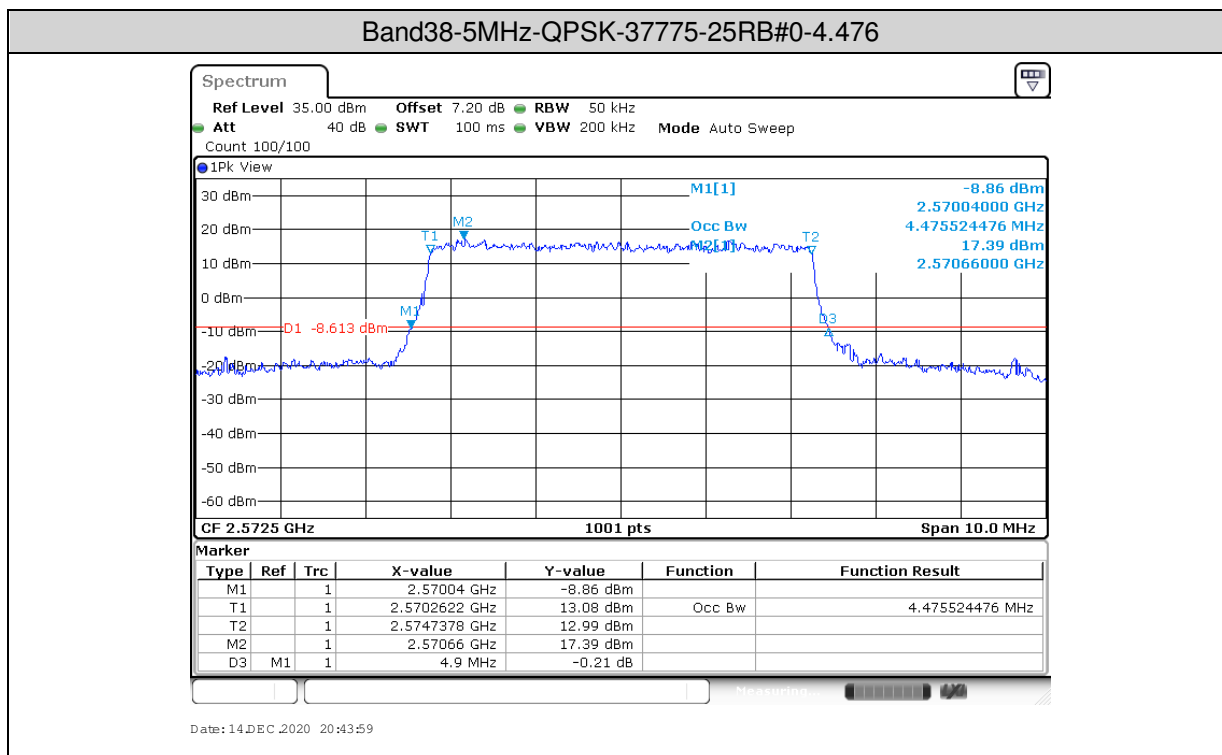
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

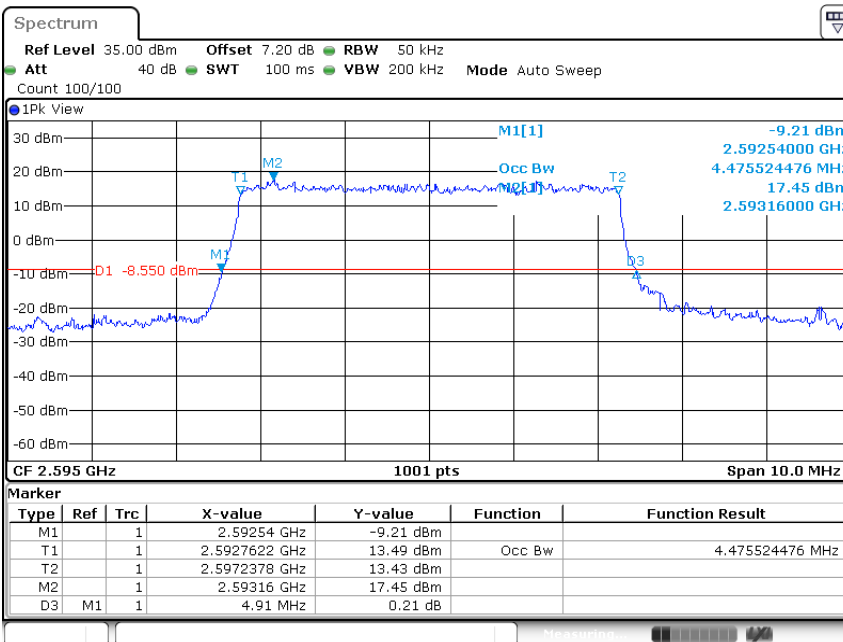
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38	20MHz	16QAM	38000	100RB#0	17.862	19.320	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.862	19.320	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.862	19.360	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.862	19.320	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.902	19.320	PASS

4.2. Test Plots

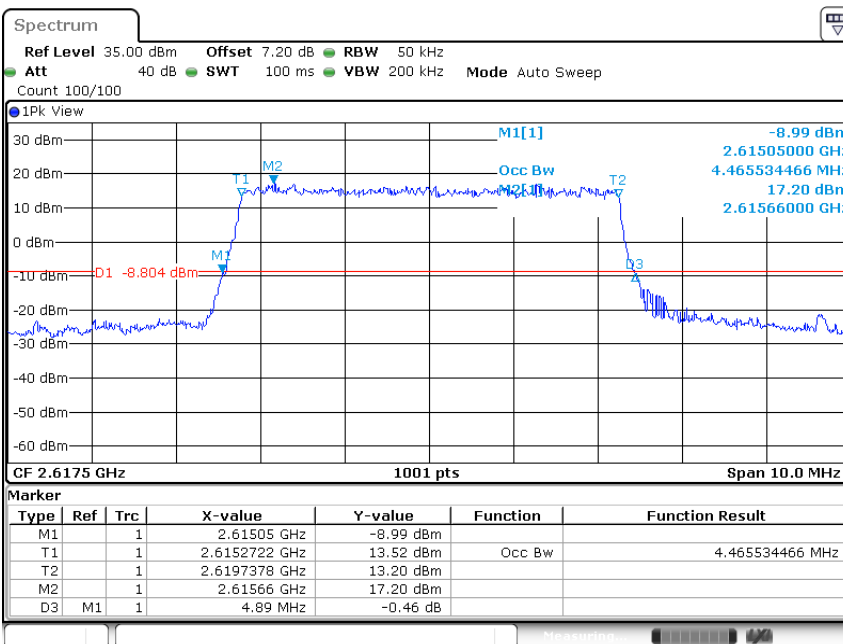


Band38-5MHz-QPSK-38000-25RB#0-4.476



Date: 3 DEC 2020 21:32:36

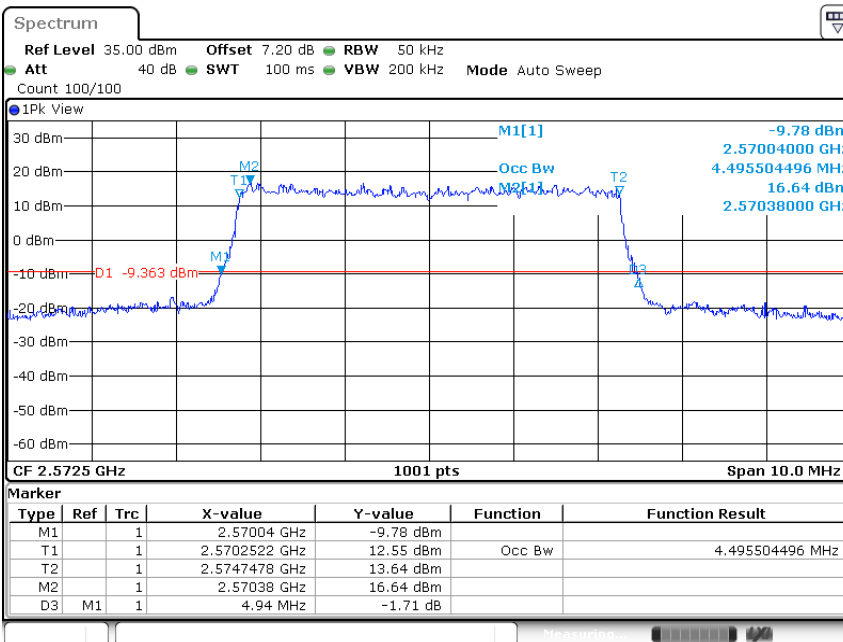
Band38-5MHz-QPSK-38225-25RB#0-4.466



Date: 3 DEC 2020 21:33:26

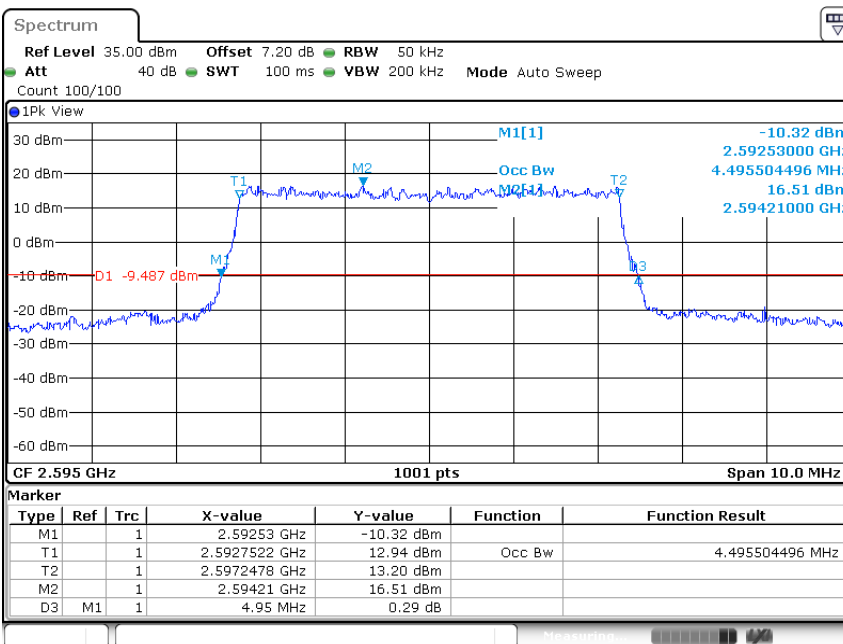


Band38-5MHz-16QAM-37775-25RB#0-4.496



Date: 3 DEC 2020 21:32:11

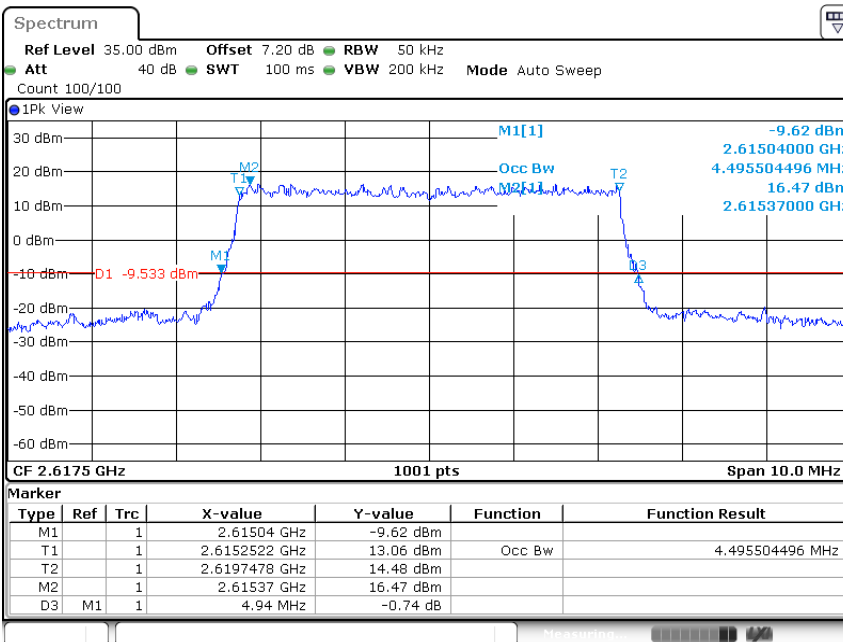
Band38-5MHz-16QAM-38000-25RB#0-4.496



Date: 3 DEC 2020 21:33:01

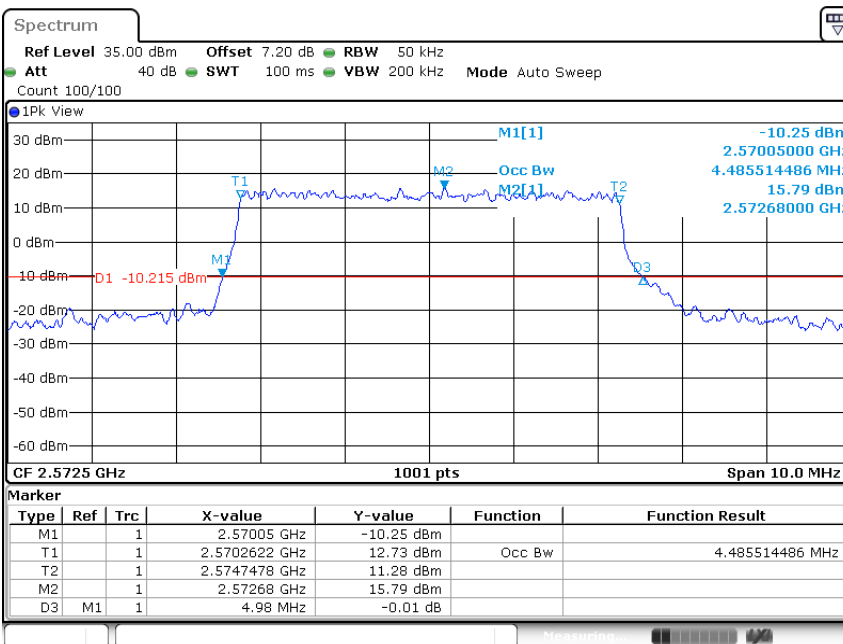


Band38-5MHz-16QAM-38225-25RB#0-4.496



Date: 3 DEC 2020 21:33:51

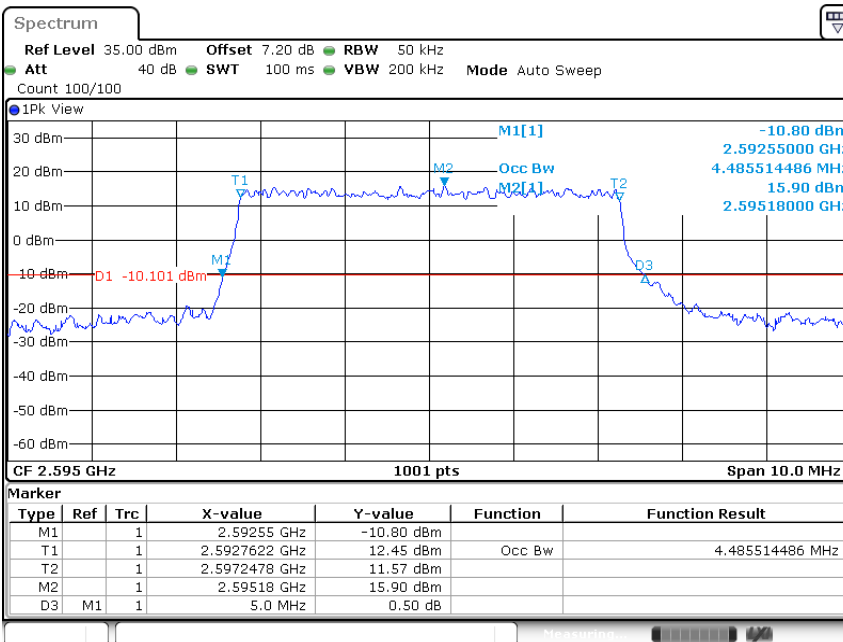
Band38-5MHz-64QAM-37775-25RB#0-4.486



Date: 4 DEC 2020 09:20:56

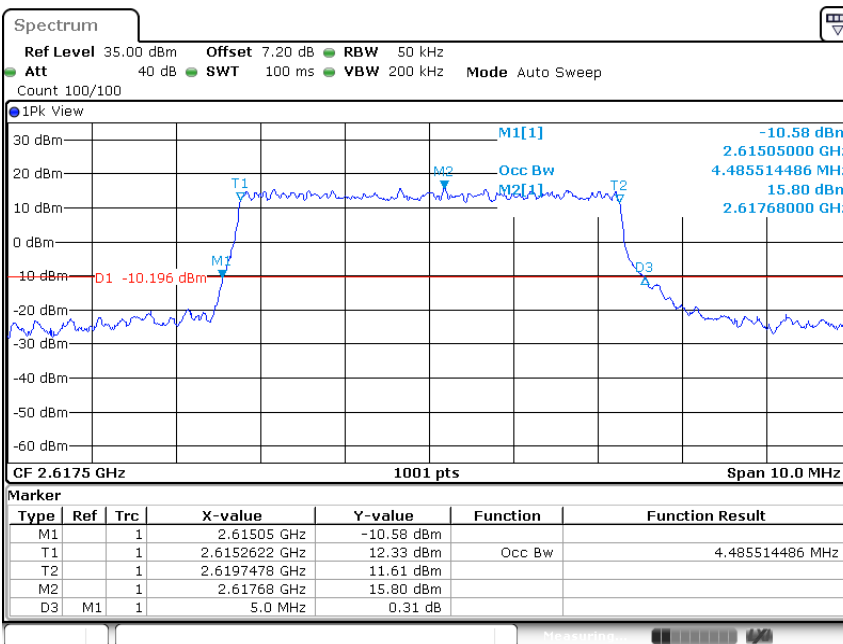


Band38-5MHz-64QAM-38000-25RB#0-4.486



Date: 4 DEC 2020 09:02:43

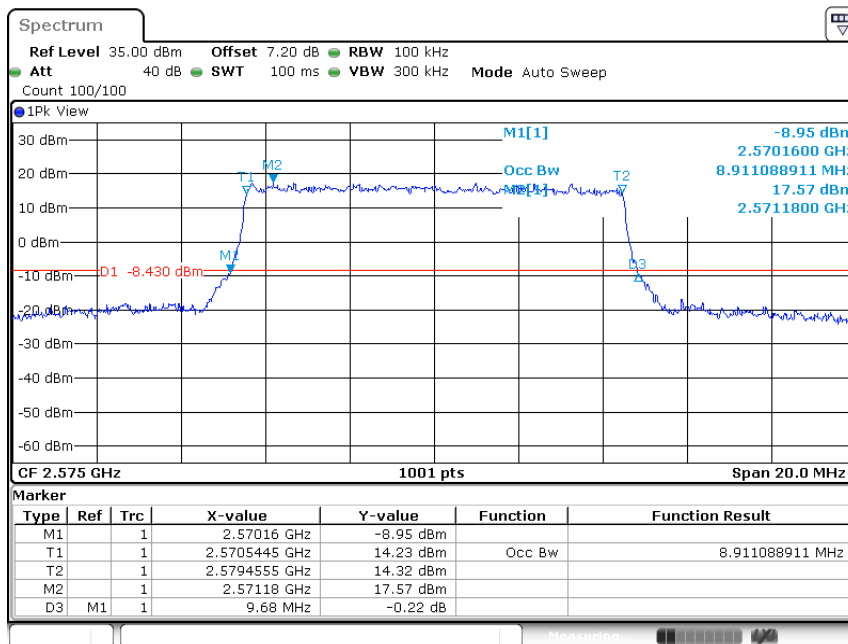
Band38-5MHz-64QAM-38225-25RB#0-4.486



Date: 4 DEC 2020 09:03:44

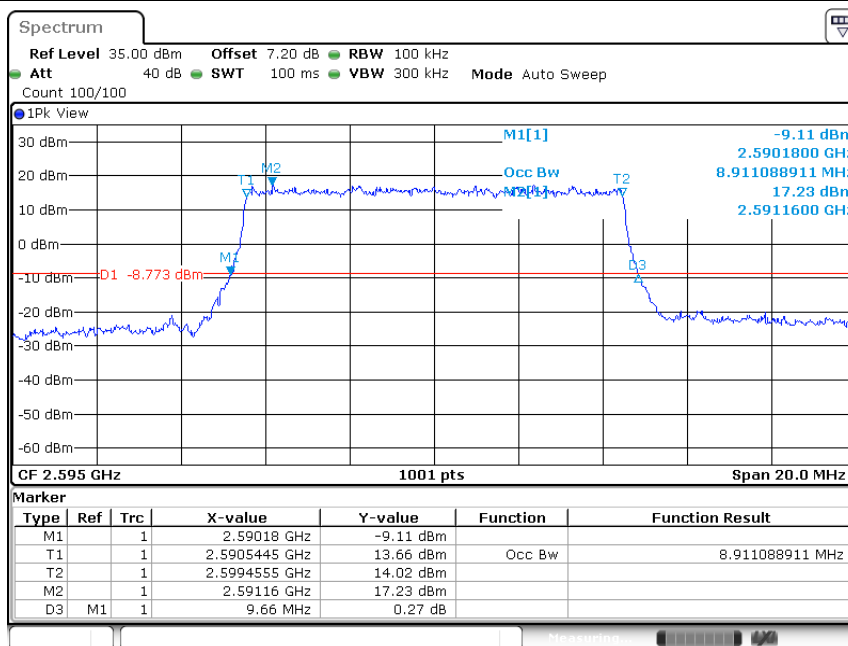


Band38-10MHz-QPSK-37800-50RB#0-8.911



Date: 3 DEC 2020 21:47:23

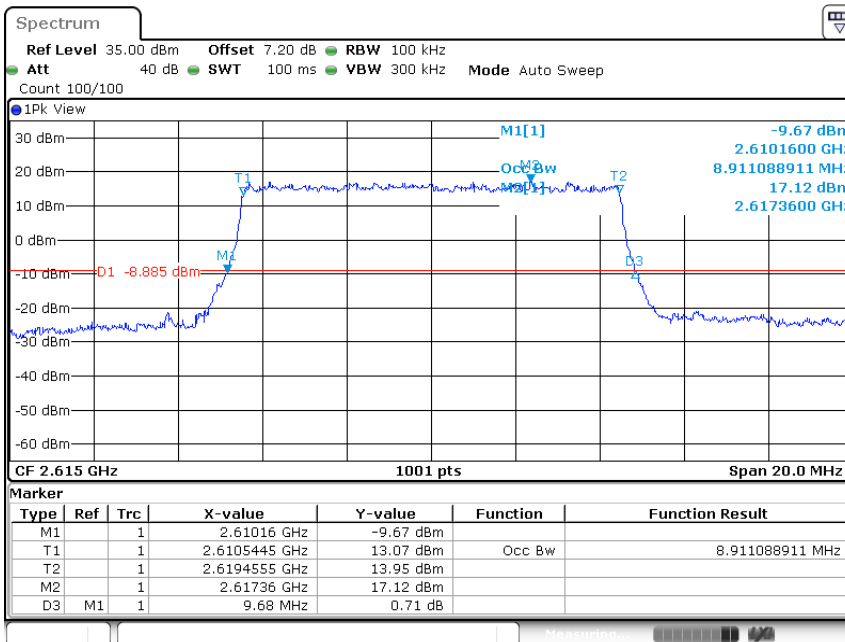
Band38-10MHz-QPSK-38000-50RB#0-8.911



Date: 3 DEC 2020 21:48:13

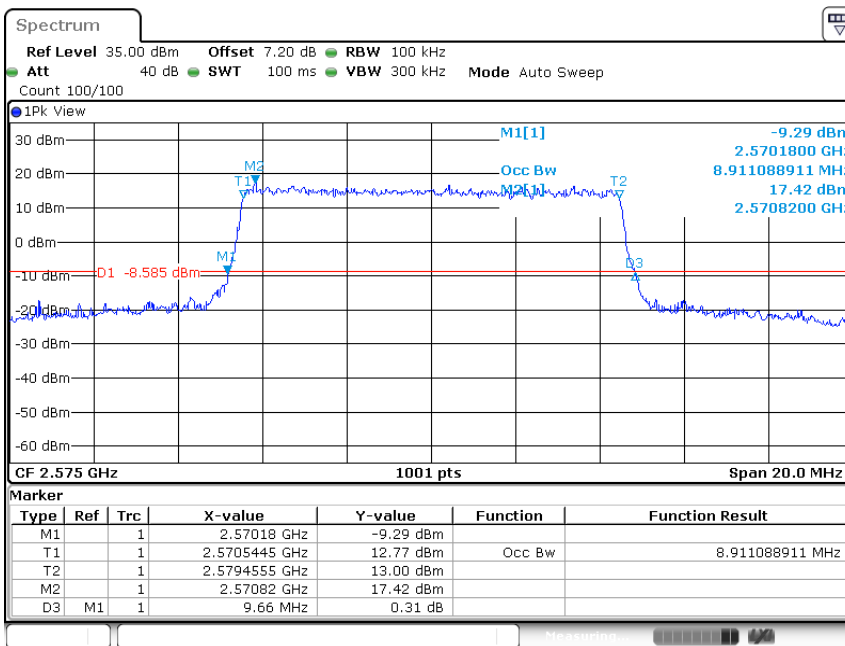


Band38-10MHz-QPSK-38200-50RB#0-8.911



Date: 3 DEC 2020 21:49:03

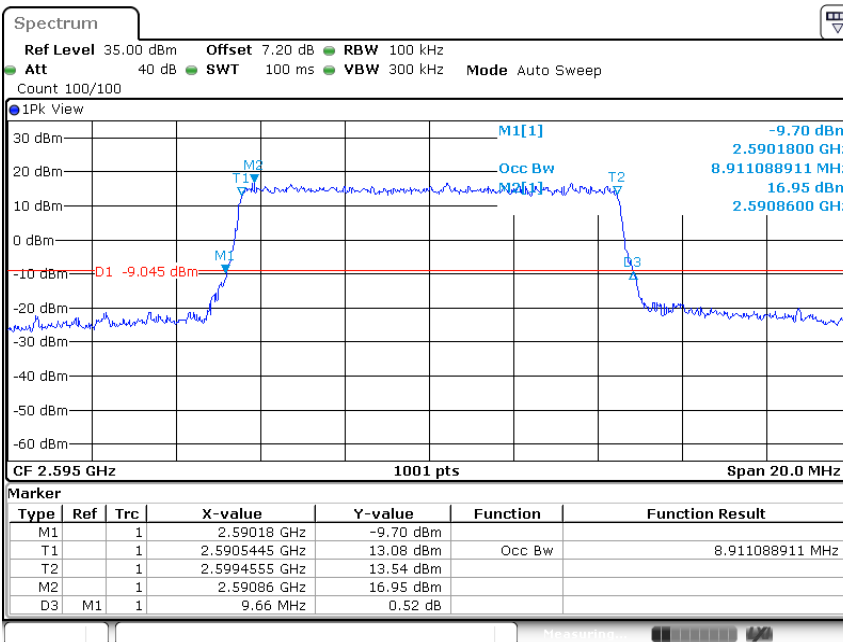
Band38-10MHz-16QAM-37800-50RB#0-8.911



Date: 3 DEC 2020 21:47:48

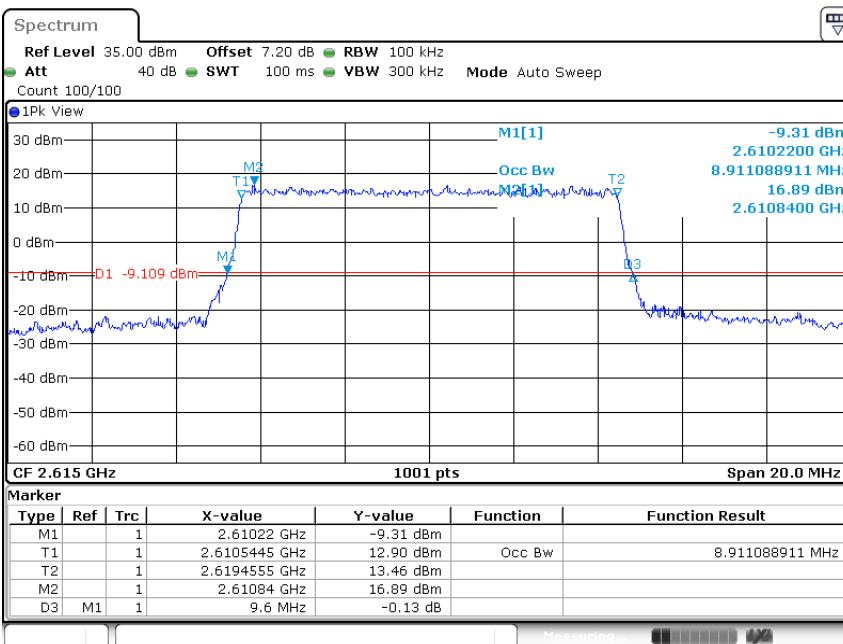


Band38-10MHz-16QAM-38000-50RB#0-8.911



Date: 3 DEC 2020 21:48:38

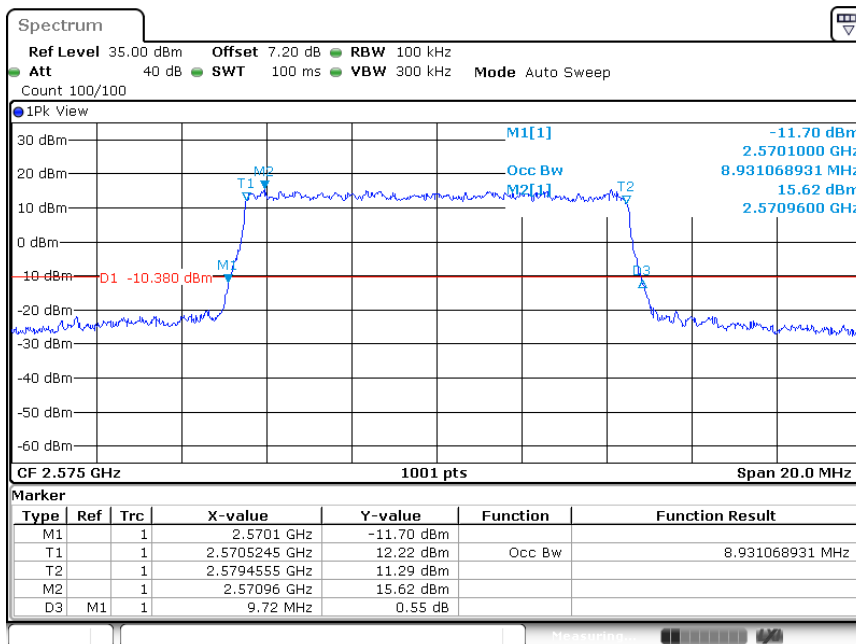
Band38-10MHz-16QAM-38200-50RB#0-8.911



Date: 3 DEC 2020 21:49:28

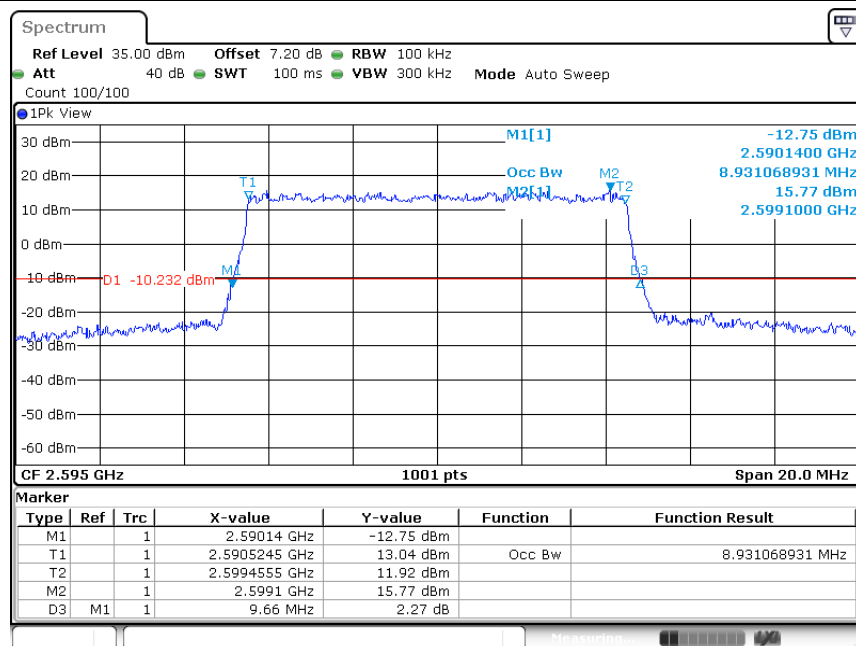


Band38-10MHz-64QAM-37800-50RB#0-8.931



Date: 14 DEC 2020 20:44:53

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



Date: 4 DEC 2020 09:04:43



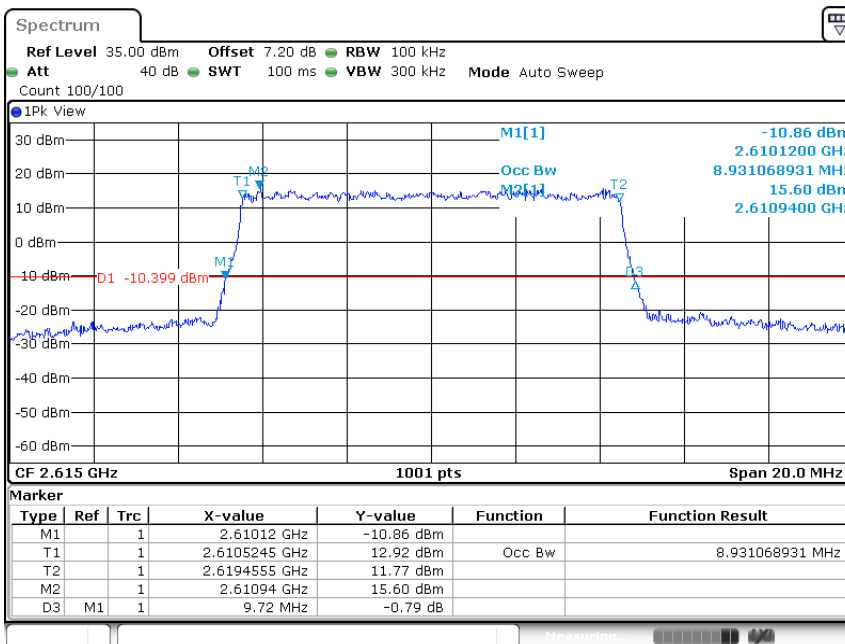
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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

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

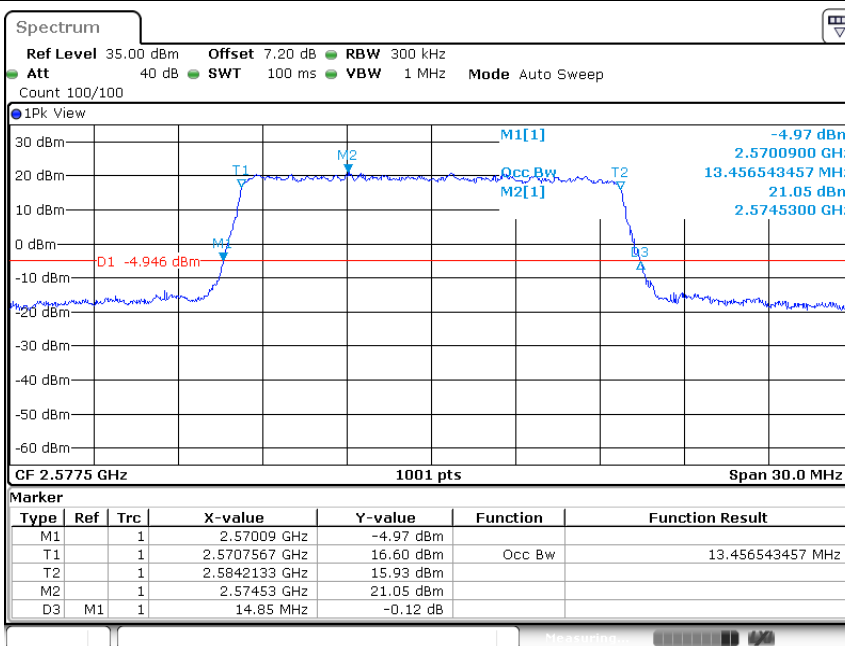
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 4 DEC 2020 09:05:08

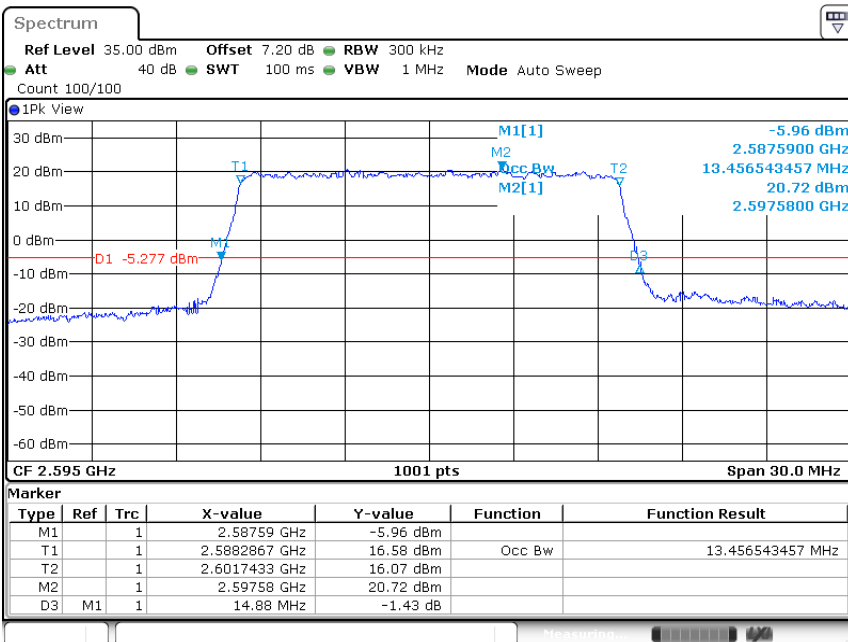
Band38-15MHz-QPSK-37825-75RB#0-13.457



Date: 3 DEC 2020 22:05:13

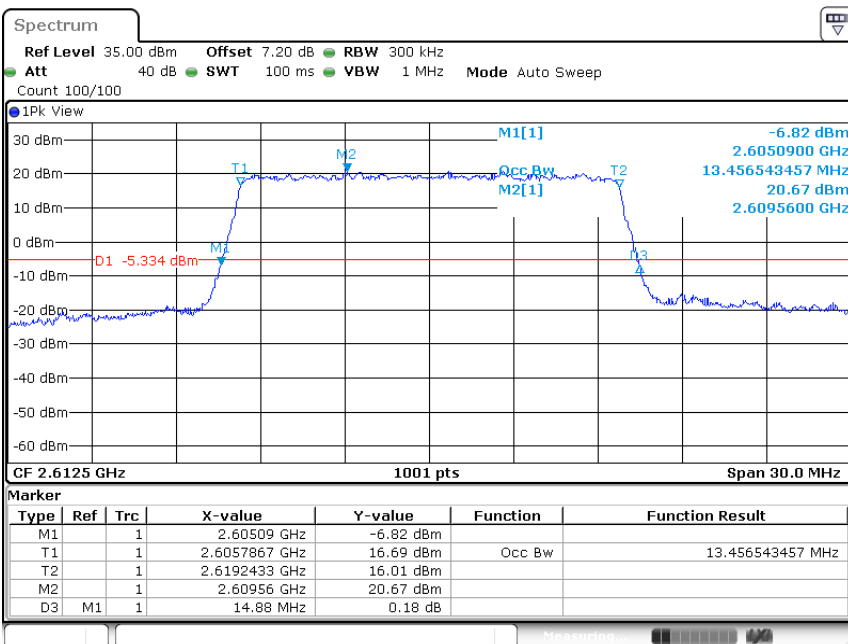


Band38-15MHz-QPSK-38000-75RB#0-13.457



Date: 3 DEC 2020 22:06:03

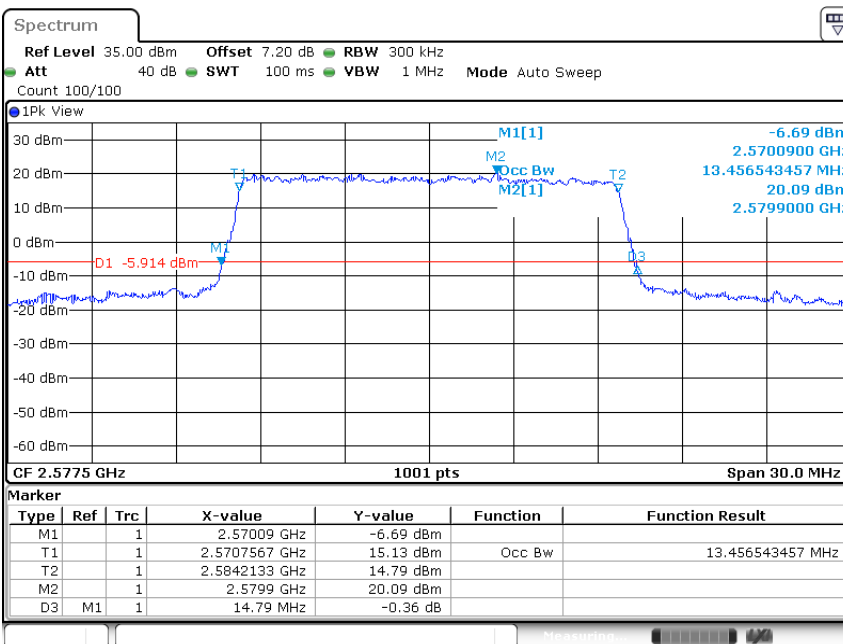
Band38-15MHz-QPSK-38175-75RB#0-13.457



Date: 3 DEC 2020 22:06:53

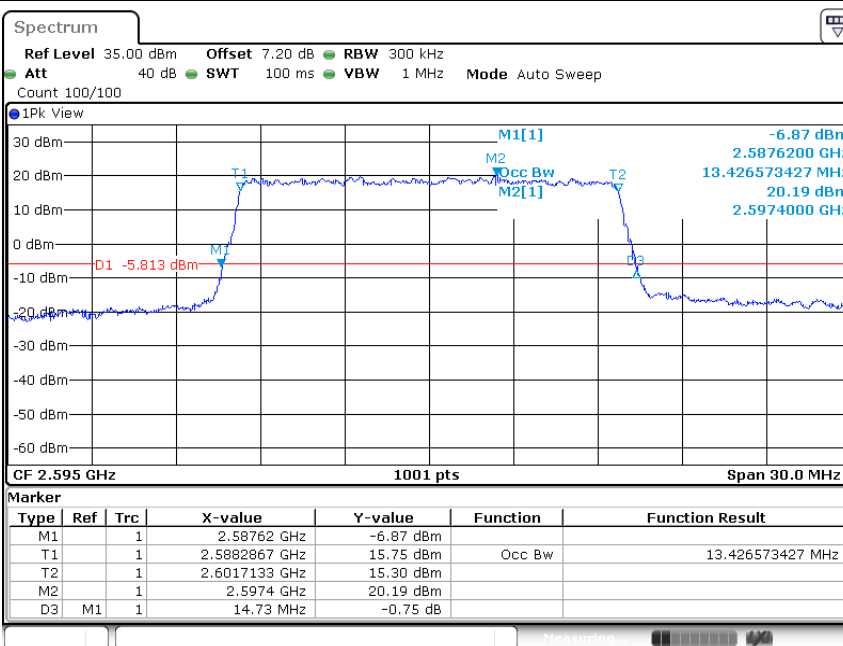


Band38-15MHz-16QAM-37825-75RB#0-13.457



Date: 3 DEC 2020 22:05:38

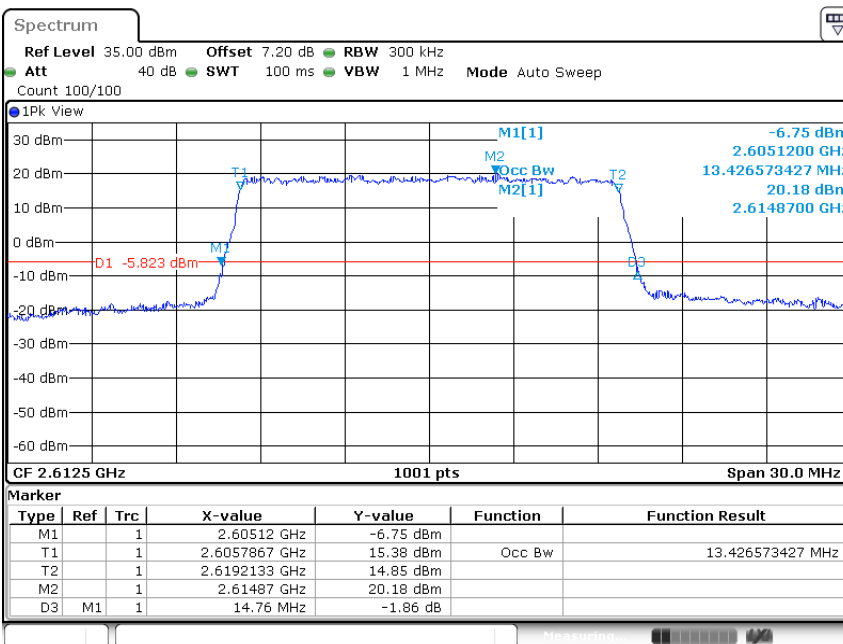
Band38-15MHz-16QAM-38000-75RB#0-13.427



Date: 3 DEC 2020 22:06:28

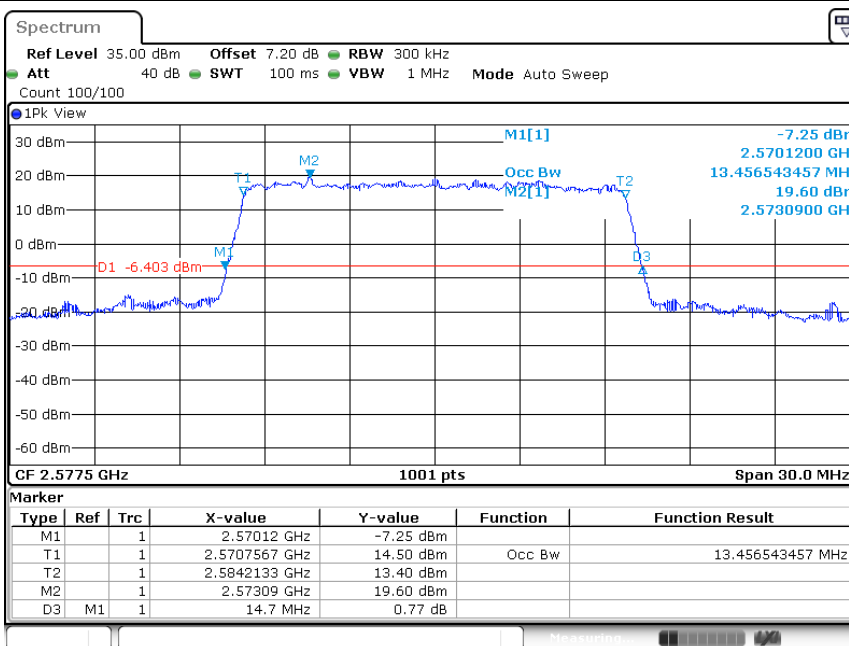


Band38-15MHz-16QAM-38175-75RB#0-13.427



Date: 3 DEC 2020 22:07:18

Band38-15MHz-64QAM-37825-75RB#0-13.457



Date: 14 DEC 2020 20:45:49



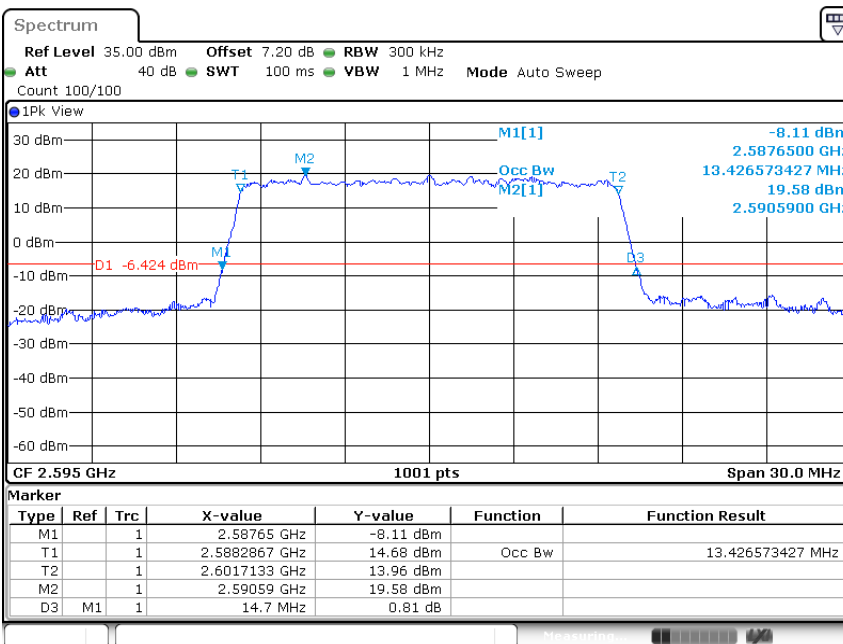
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

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

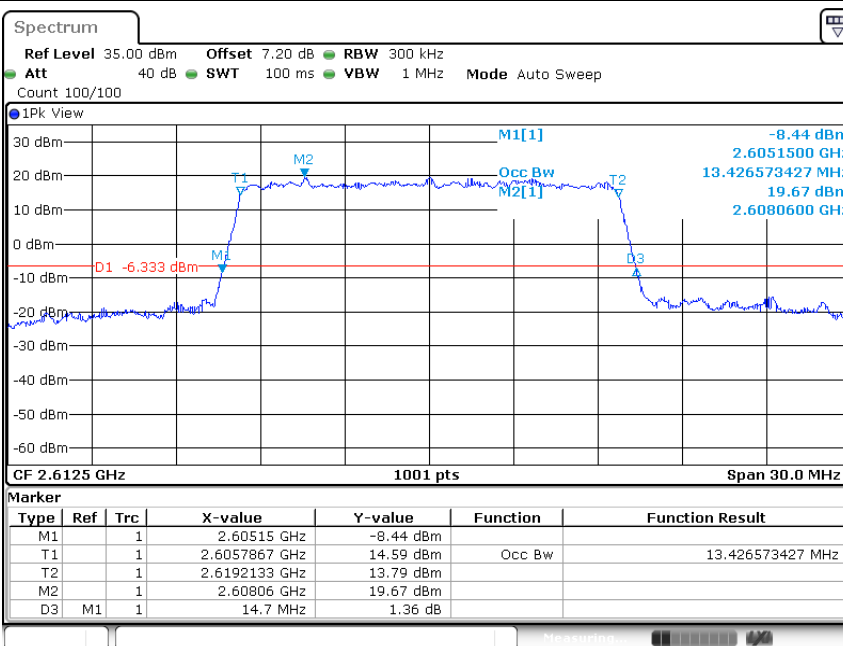
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 4 DEC 2020 09:06:13

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



Date: 4 DEC 2020 09:06:38



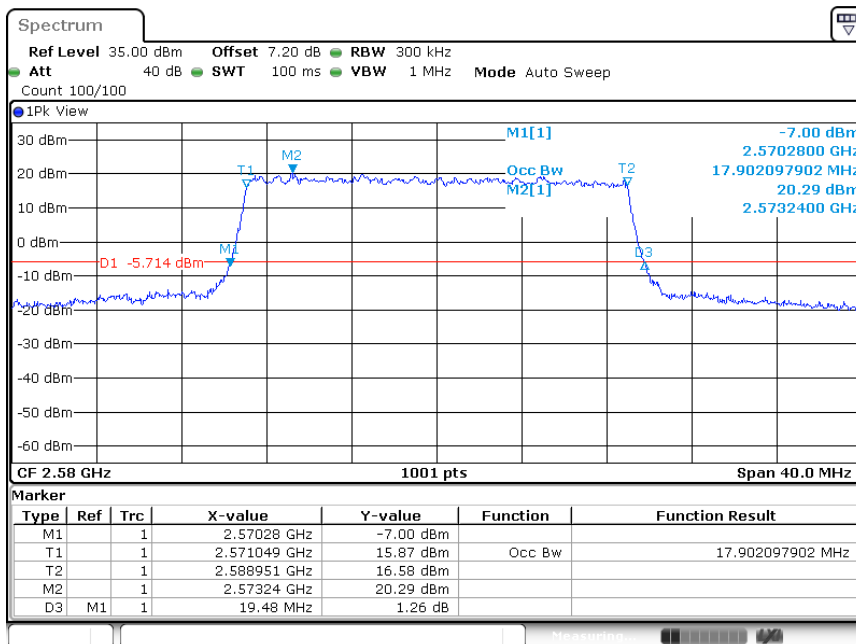
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CCC Laboratory)

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

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

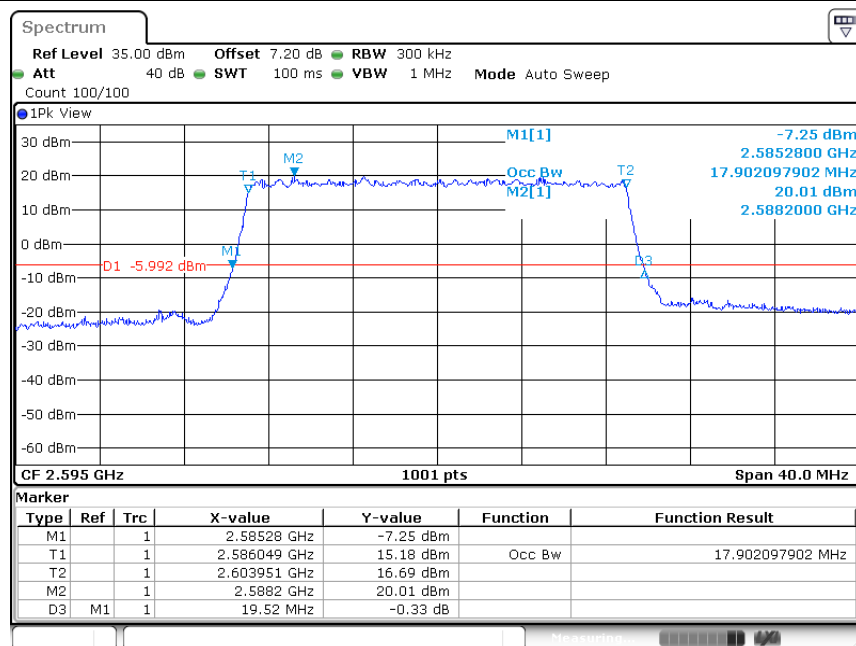
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band38-20MHz-QPSK-37850-100RB#0-17.902



Date: 14 DEC 2020 20:47:07

Band38-20MHz-QPSK-38000-100RB#0-17.902



Date: 3 DEC 2020 22:08:41

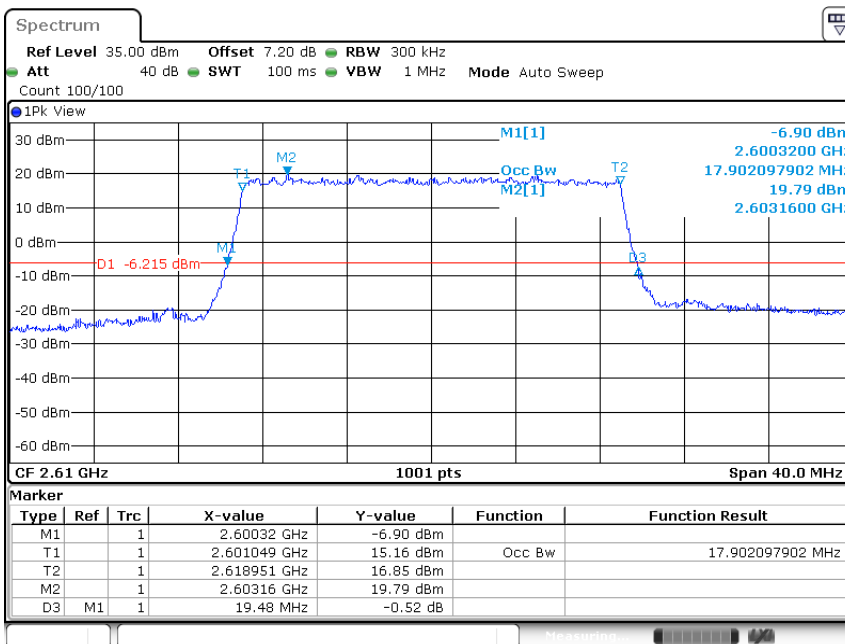
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

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

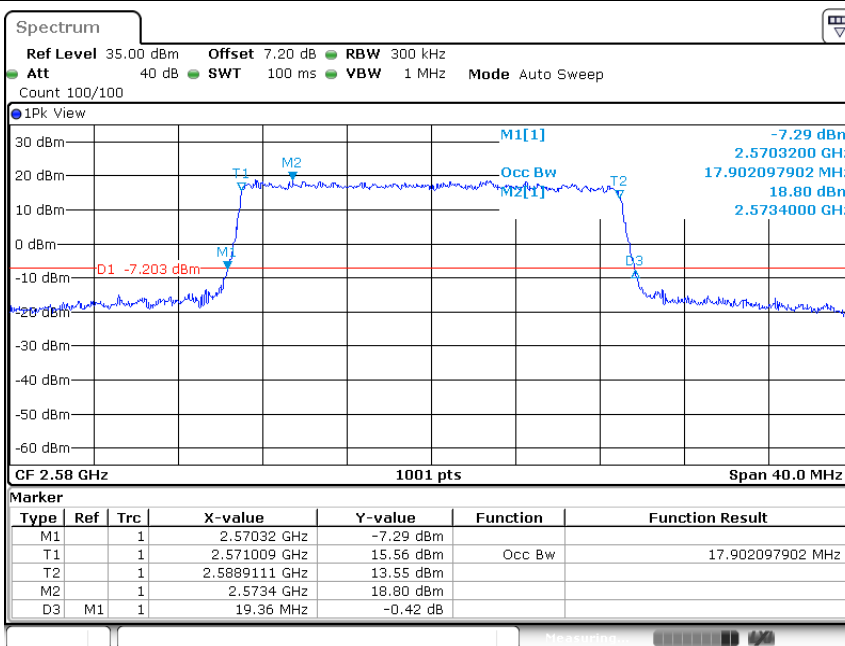
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 3 DEC 2020 22:09:31

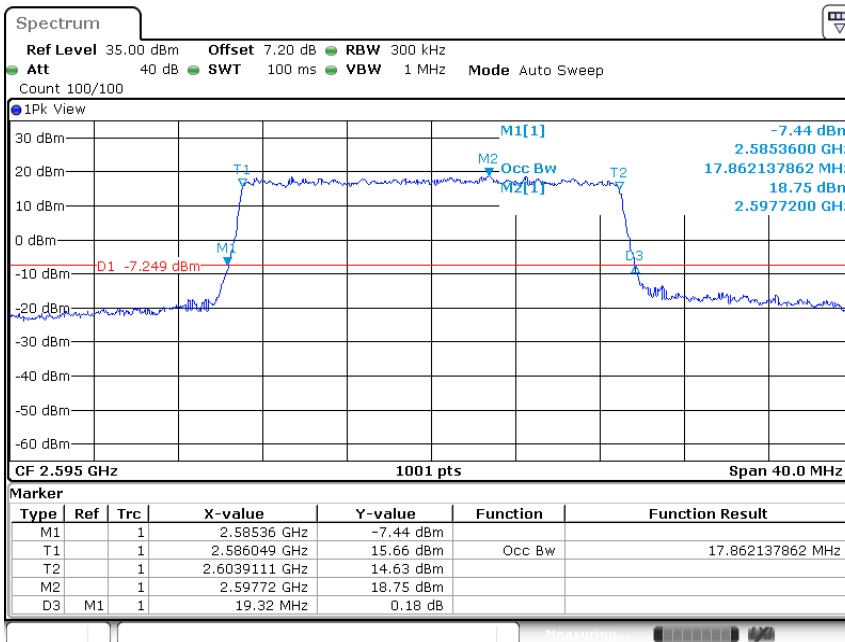
Band38-20MHz-16QAM-37850-100RB#0-17.902



Date: 3 DEC 2020 22:08:16

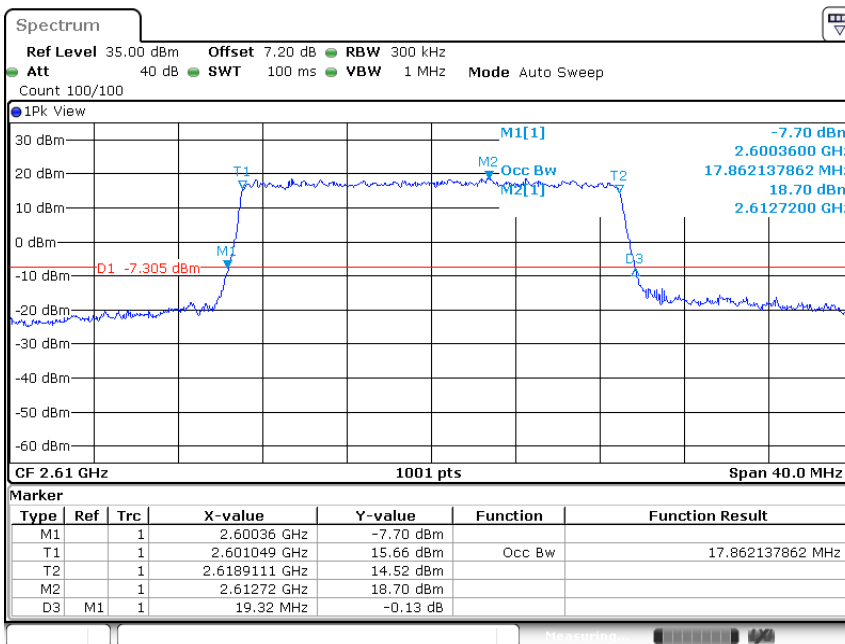


Band38-20MHz-16QAM-38000-100RB#0-17.862



Date: 3 DEC 2020 22:09:06

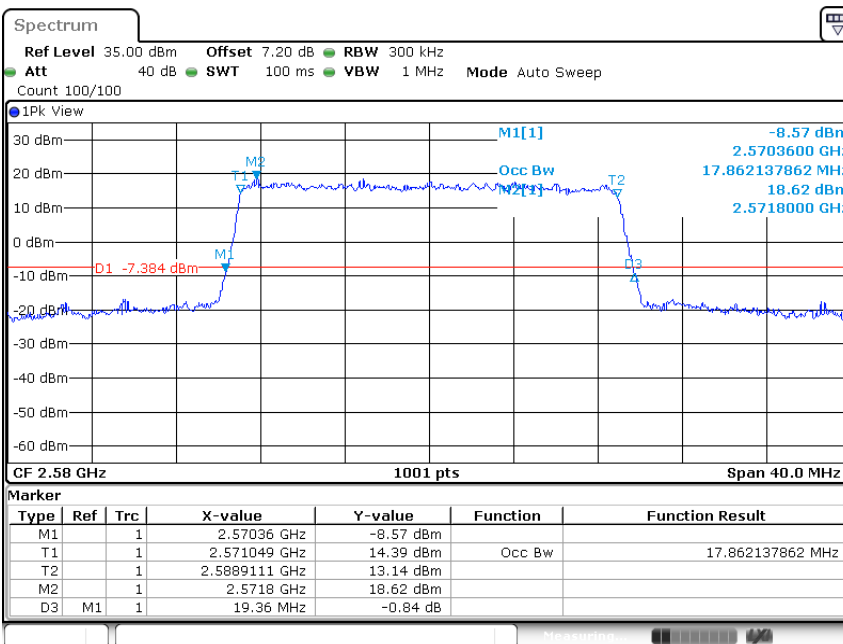
Band38-20MHz-16QAM-38150-100RB#0-17.862



Date: 3 DEC 2020 22:09:56

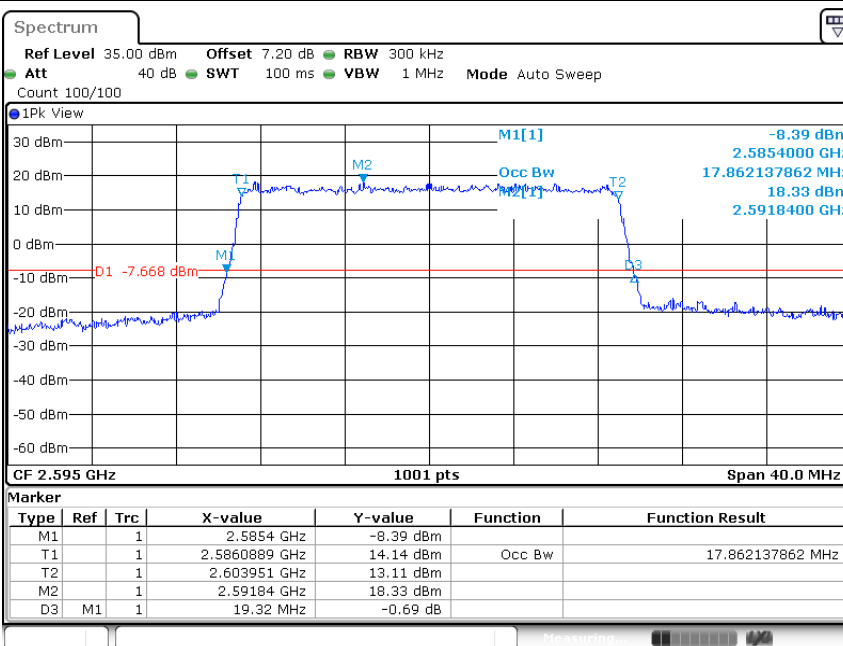


Band38-20MHz-64QAM-37850-100RB#0-17.862



Date: 4 DEC. 2020 09:07:19

Band38-20MHz-64QAM-38000-100RB#0-17.862



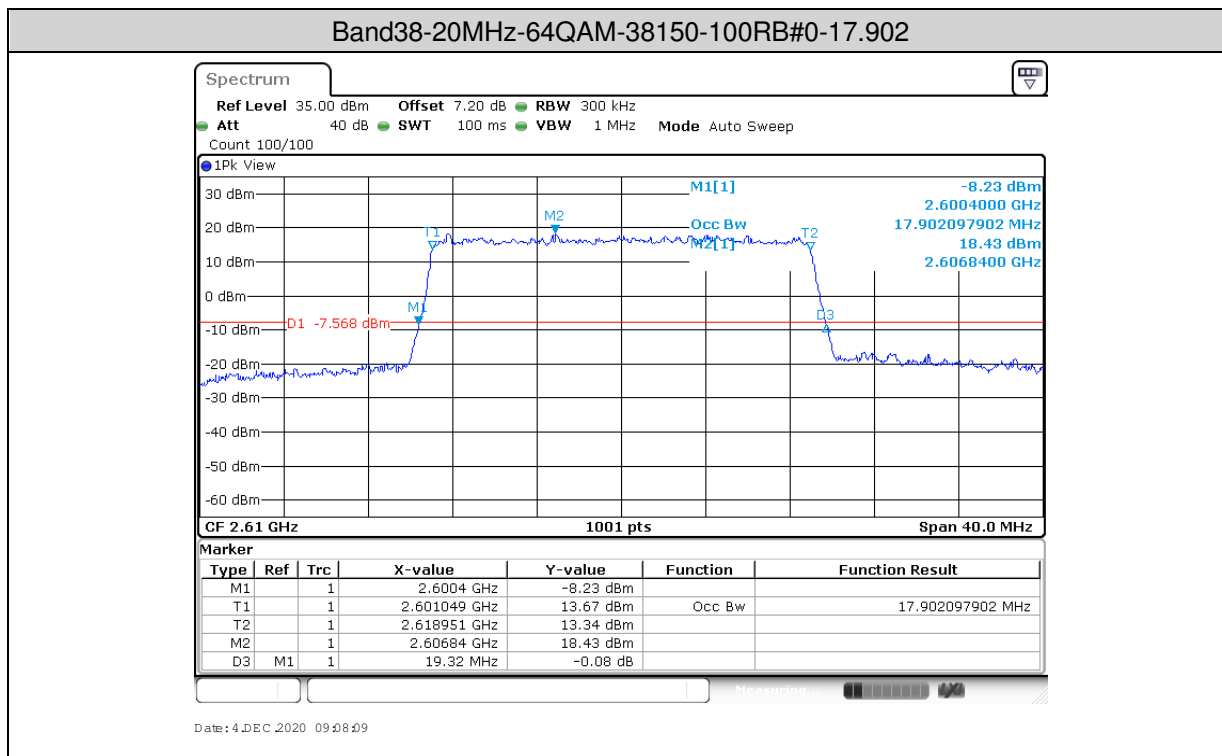
Date: 4 DEC. 2020 09:07:44



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

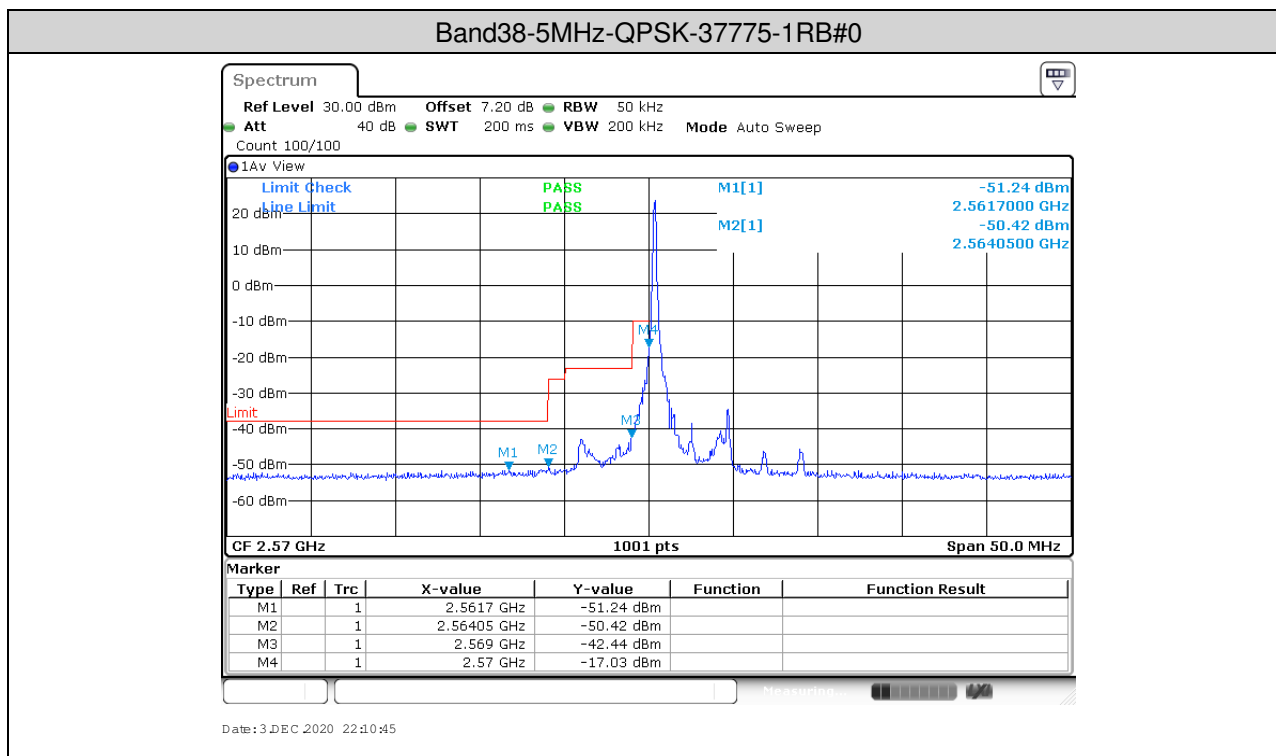
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

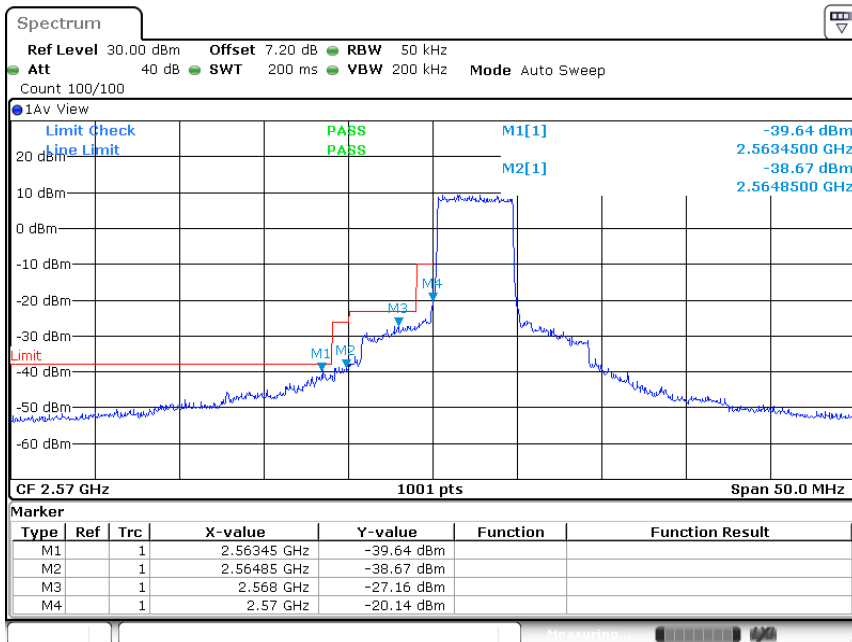


5. Band Edge Compliance

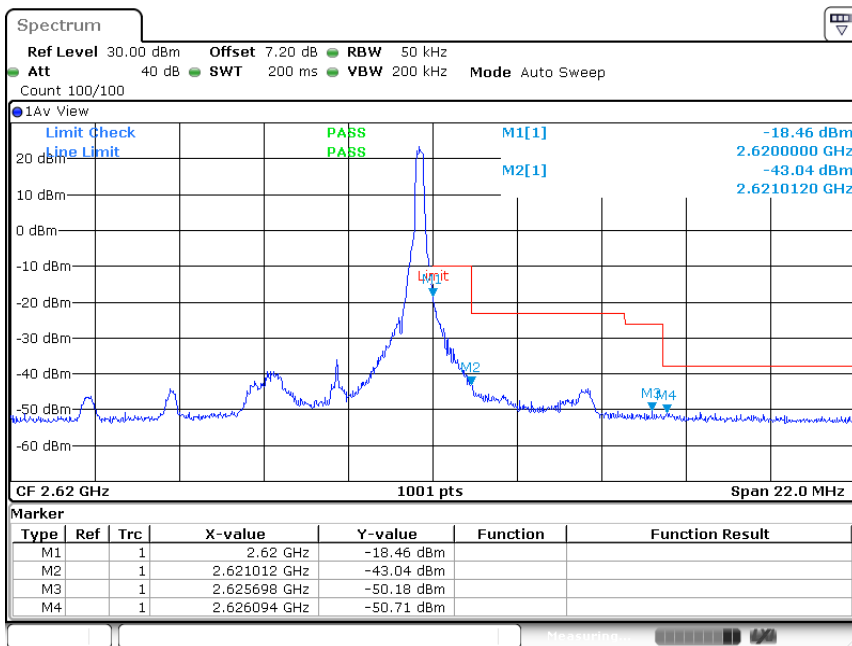
5.1. Test Plots



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



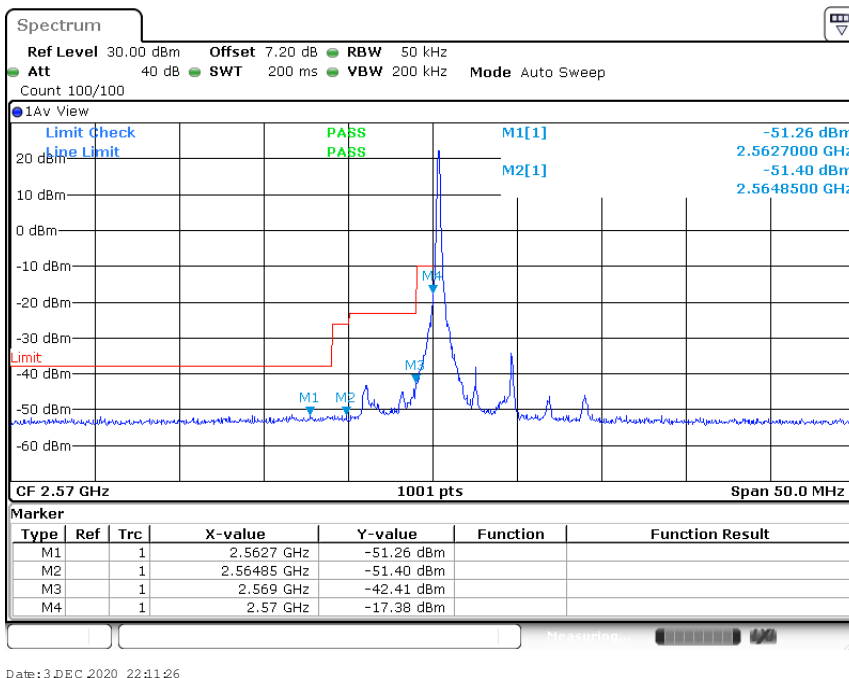
Band38-5MHz-QPSK-38225-1RB#24



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



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

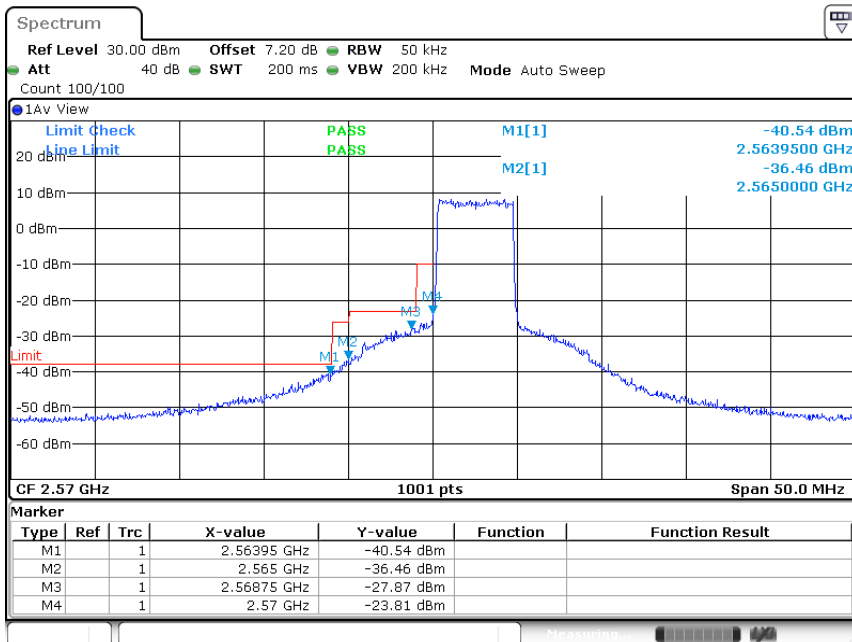


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

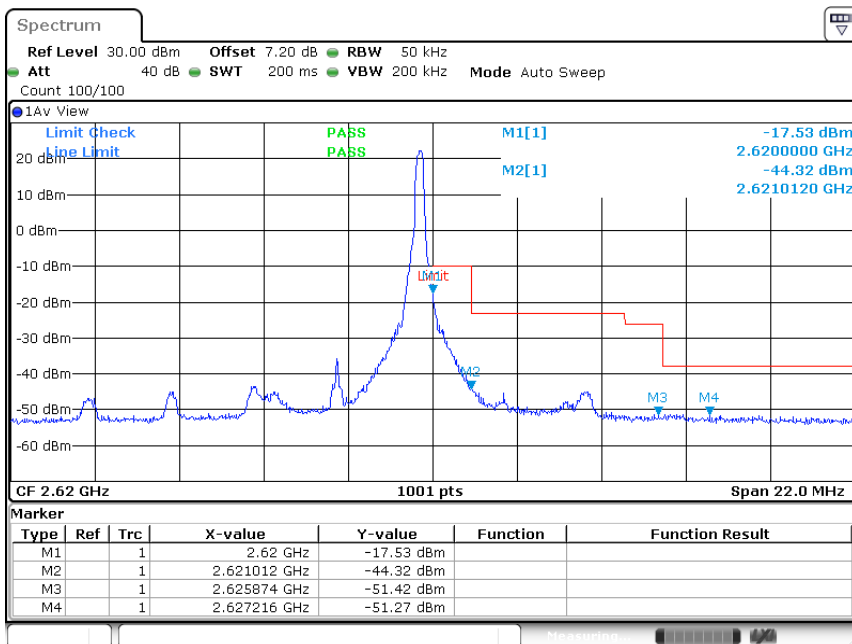
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 3 DEC 2020 22:12:49

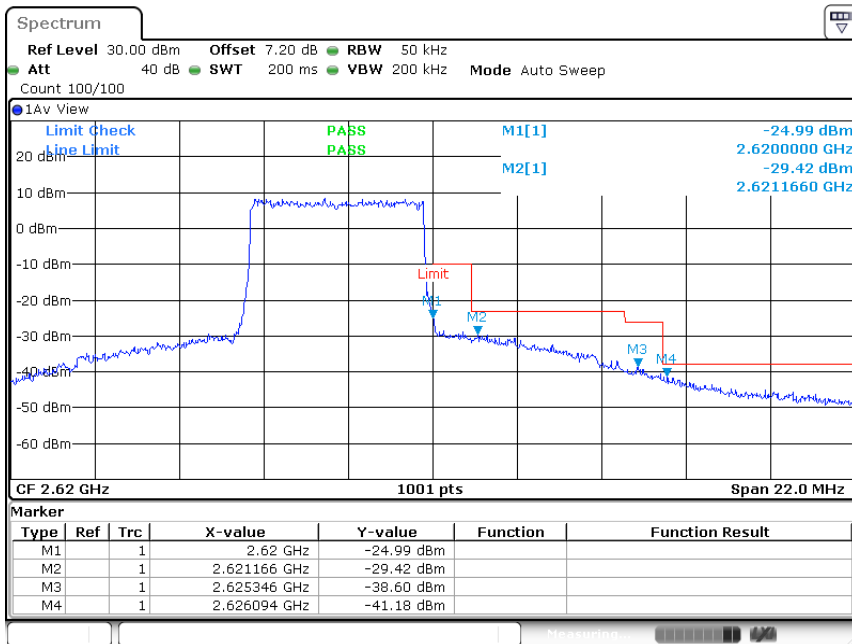
Band38-5MHz-16QAM-38225-1RB#24



Date: 3 DEC 2020 22:14:18

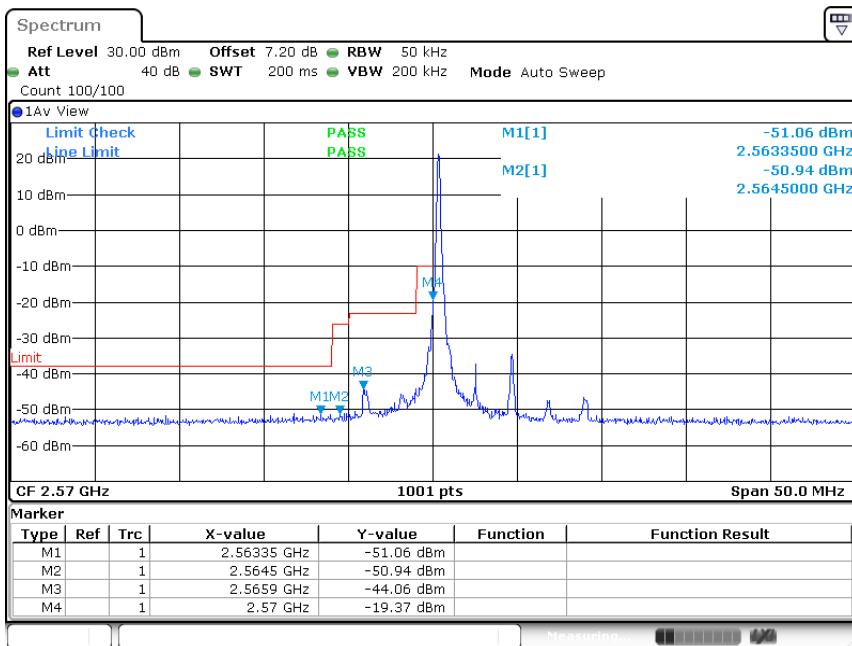


Band38-5MHz-16QAM-38225-25RB#0



Date: 3 DEC 2020 22:15:44

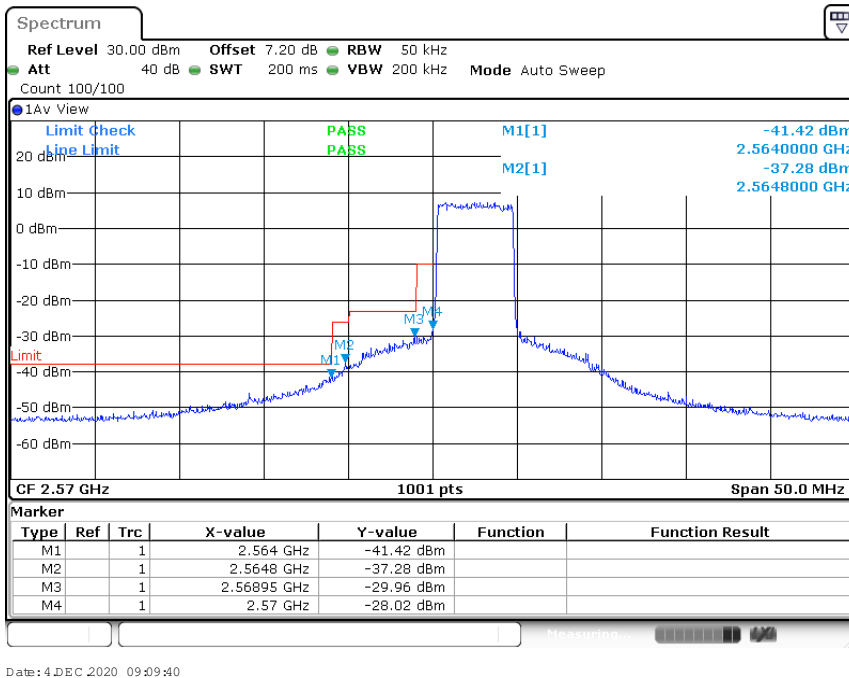
Band38-5MHz-64QAM-37775-1RB#0



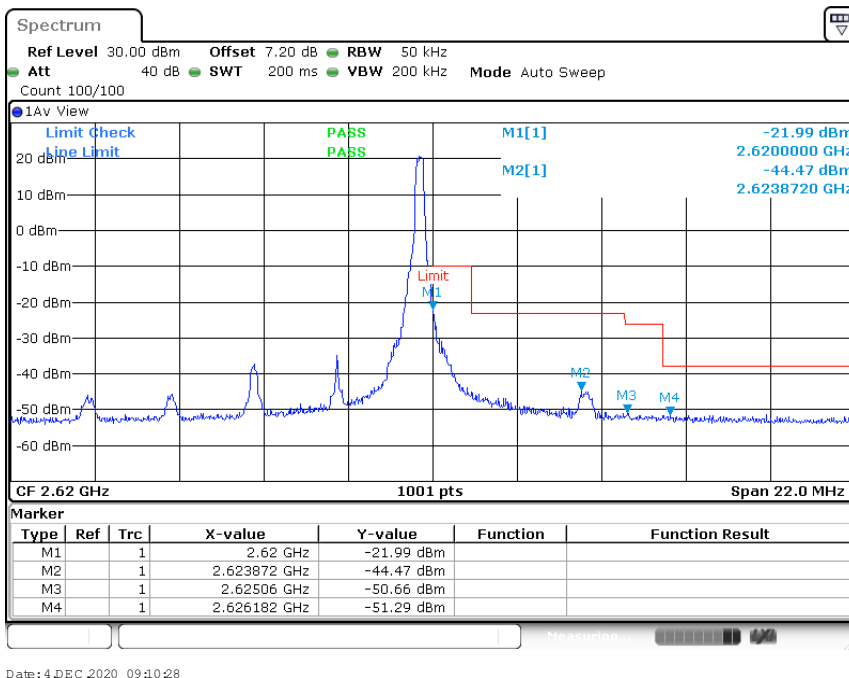
Date: 4 DEC 2020 09:08:58



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



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

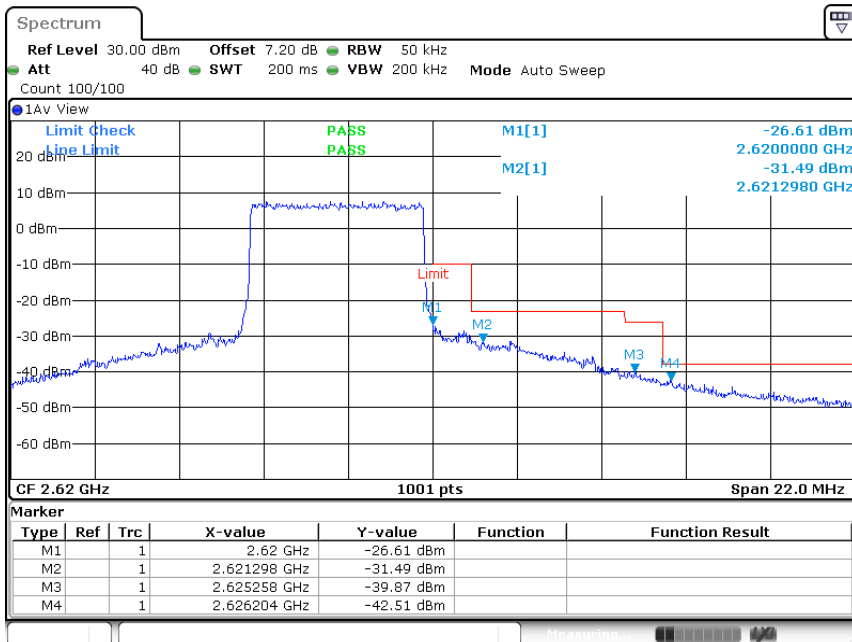


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

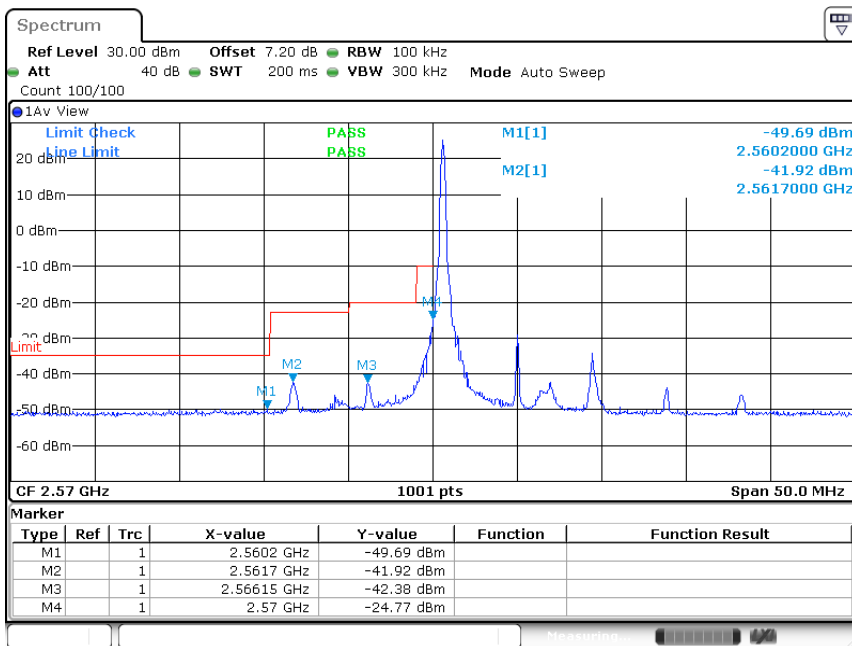
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 4 DEC 2020 09:11:10

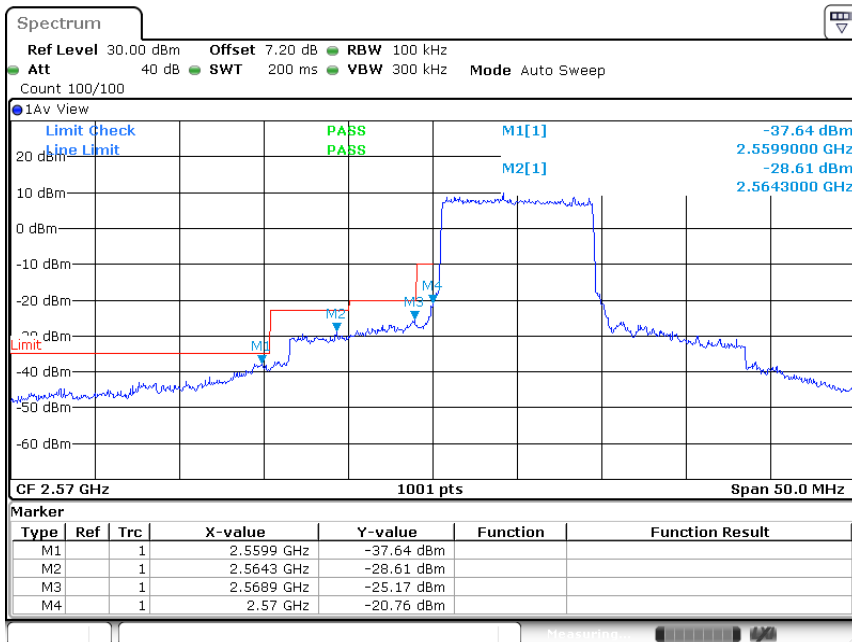
Band38-10MHz-QPSK-37800-1RB#0



Date: 3 DEC 2020 22:29:37

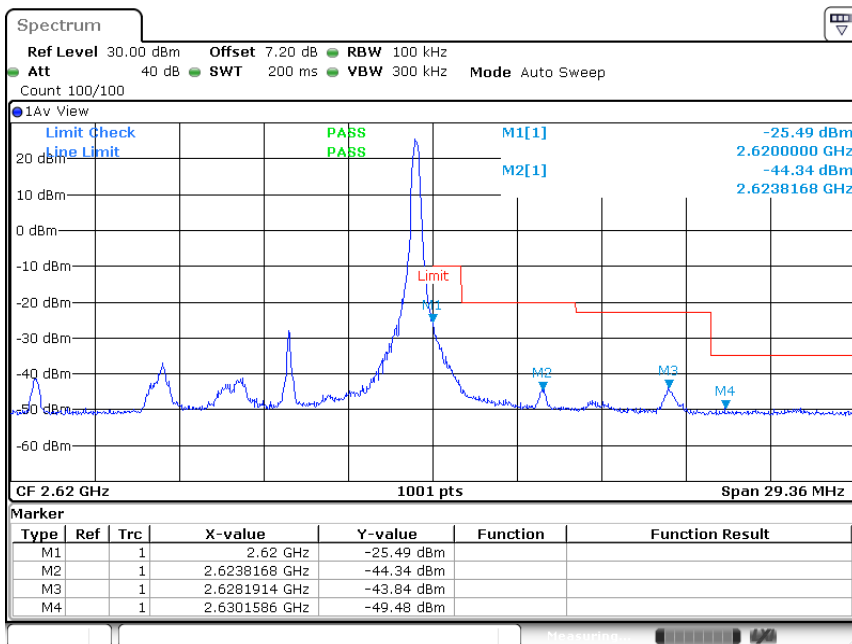


Band38-10MHz-QPSK-37800-50RB#0



Date: 3 DEC 2020 22:31:00

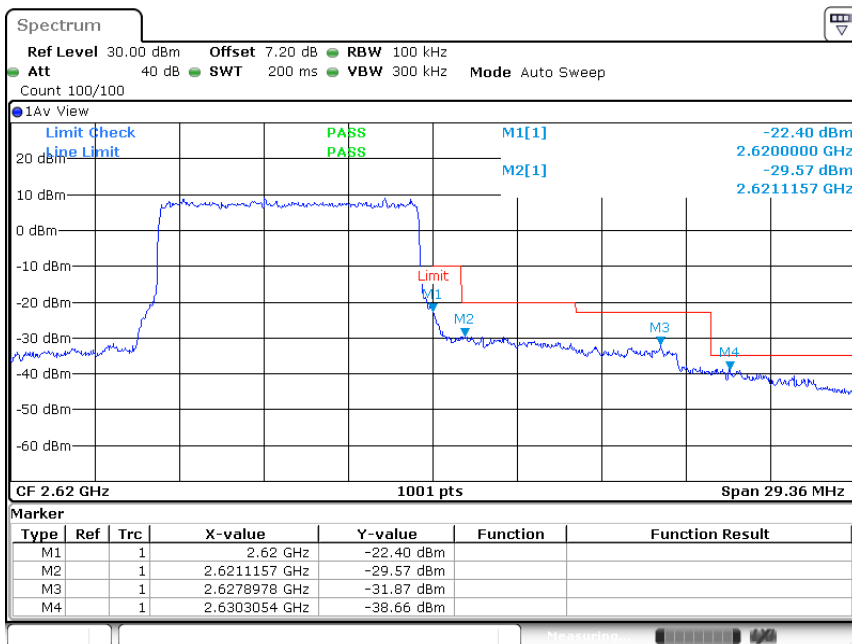
Band38-10MHz-QPSK-38200-1RB#49



Date: 3 DEC 2020 22:32:30

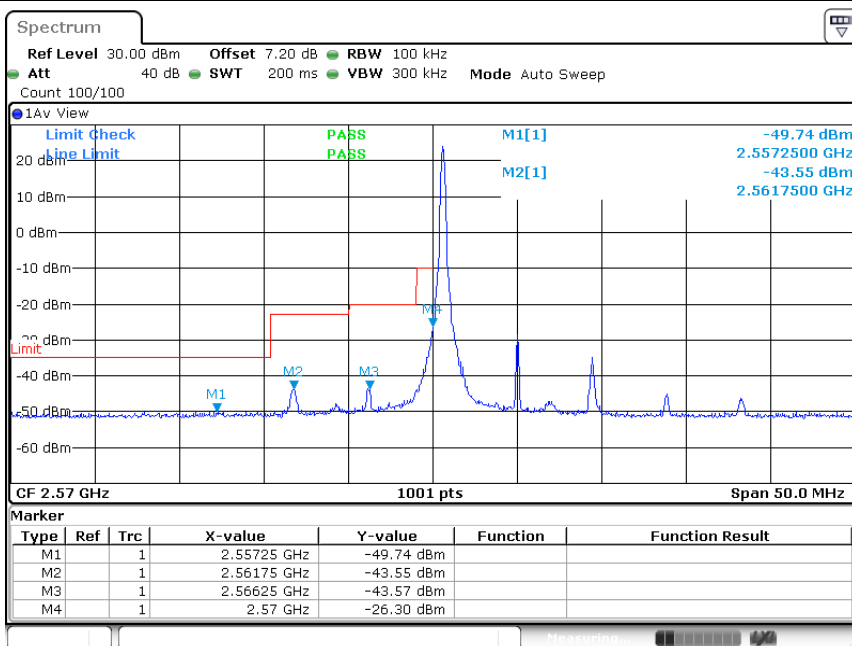


Band38-10MHz-QPSK-38200-50RB#0



Date: 3 DEC 2020 22:33:52

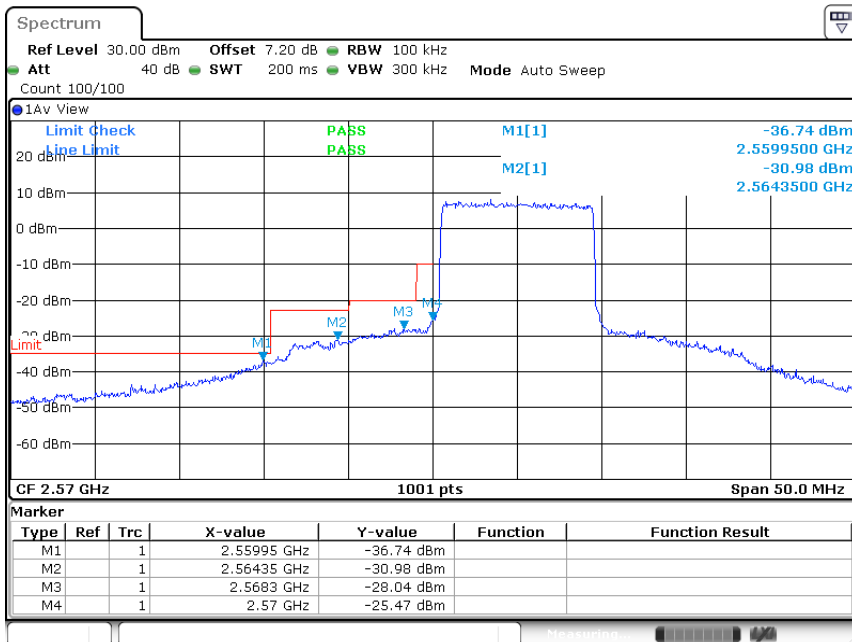
Band38-10MHz-16QAM-37800-1RB#0



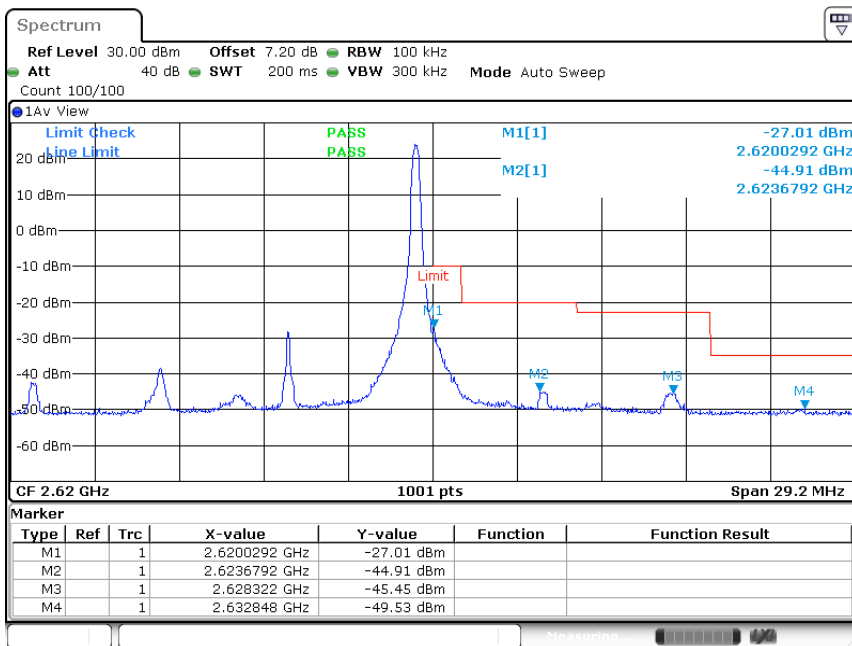
Date: 3 DEC 2020 22:30:18



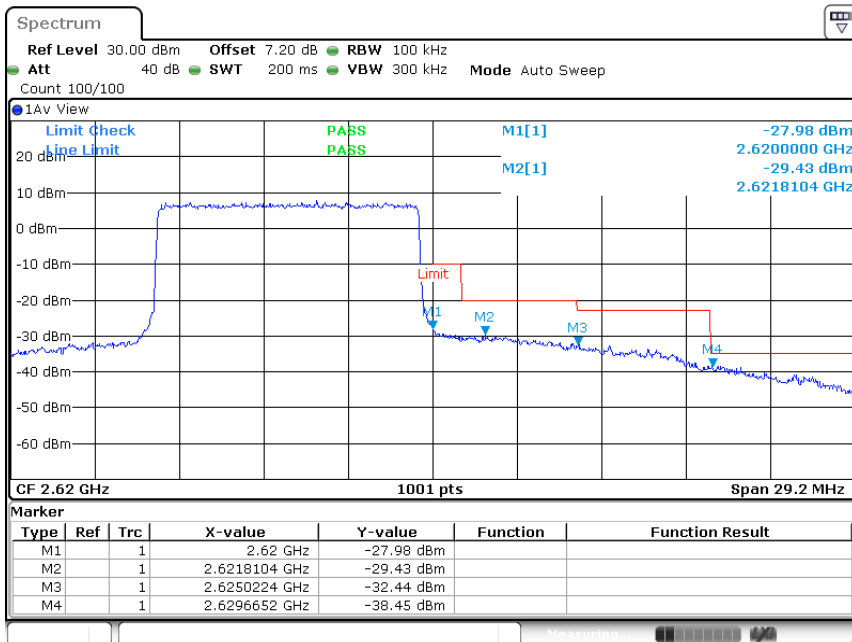
Band38-10MHz-16QAM-37800-50RB#0



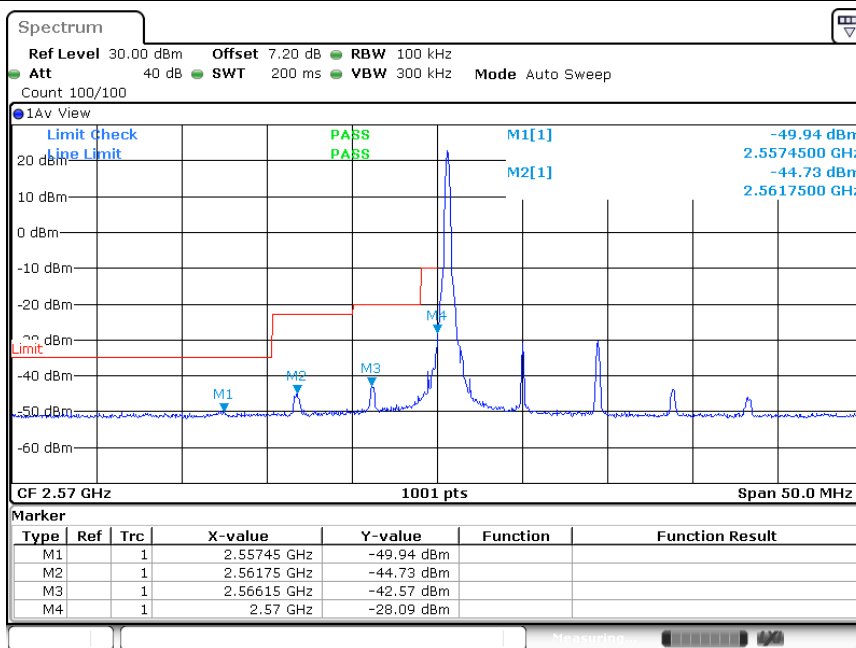
Band38-10MHz-16QAM-38200-1RB#49



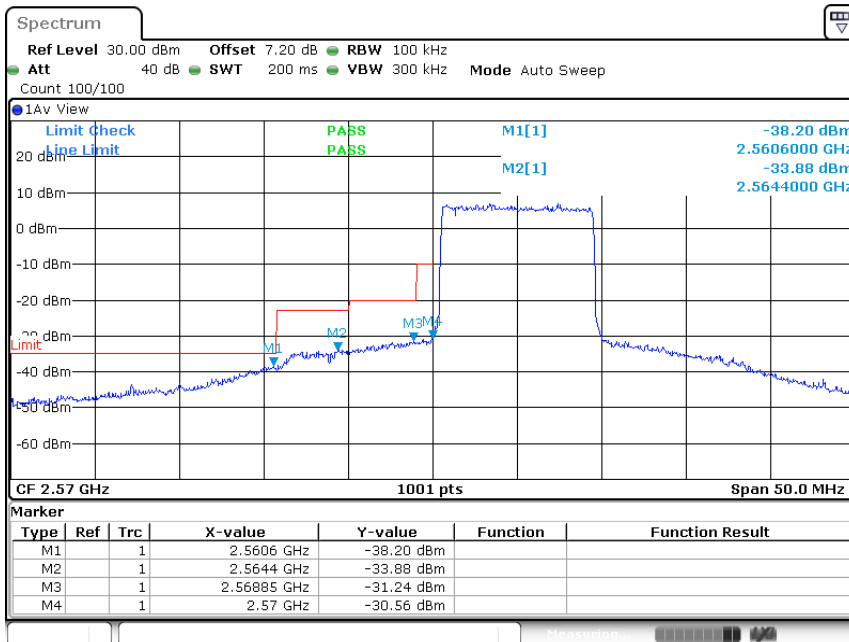
Band38-10MHz-16QAM-38200-50RB#0



Band38-10MHz-64QAM-37800-1RB#0

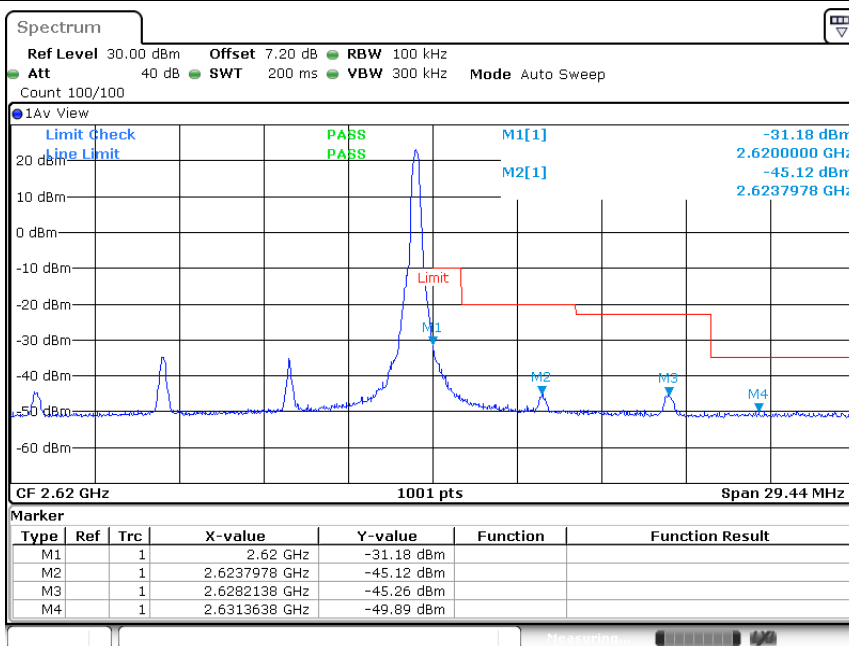


Band38-10MHz-64QAM-37800-50RB#0



Date: 4 DEC 2020 09:12:50

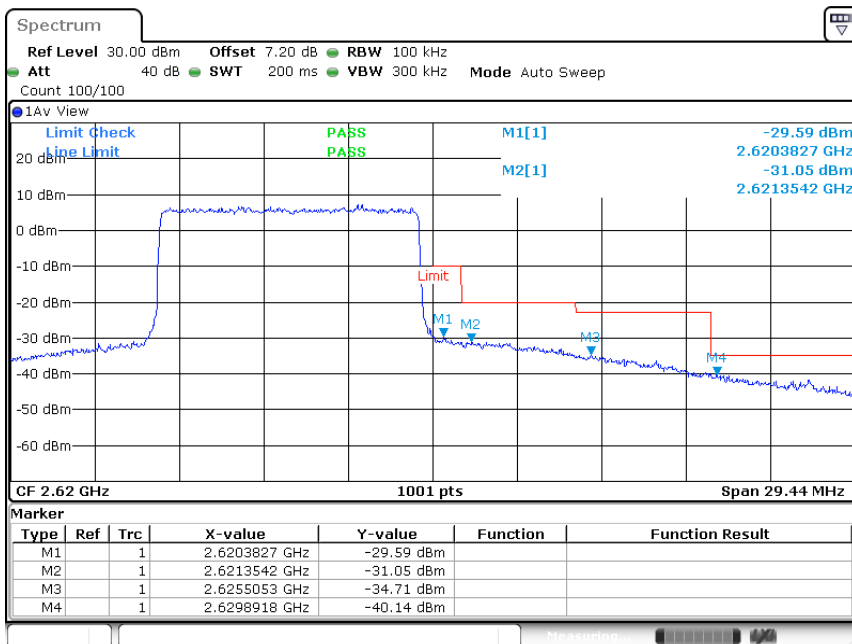
Band38-10MHz-64QAM-38200-1RB#49



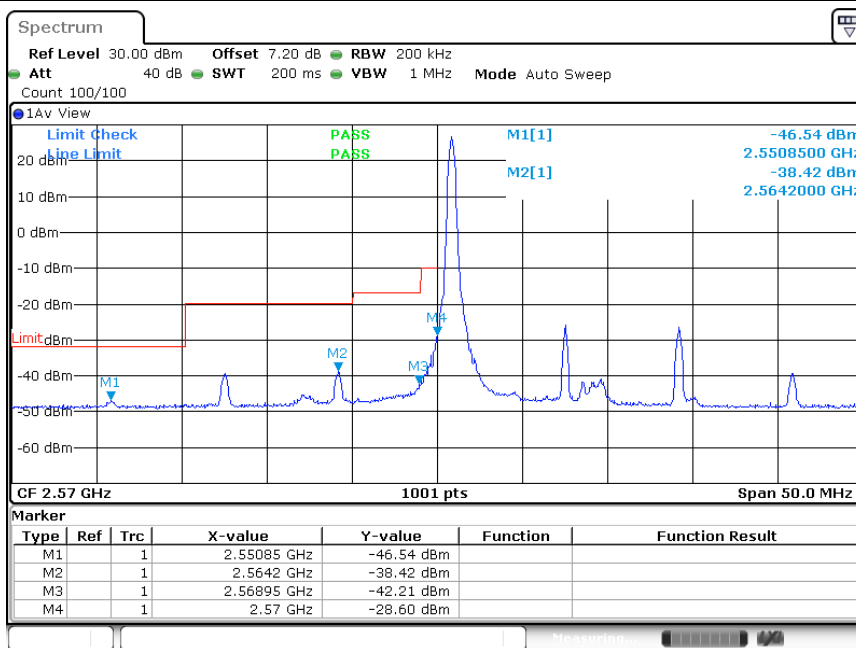
Date: 4 DEC 2020 09:13:38



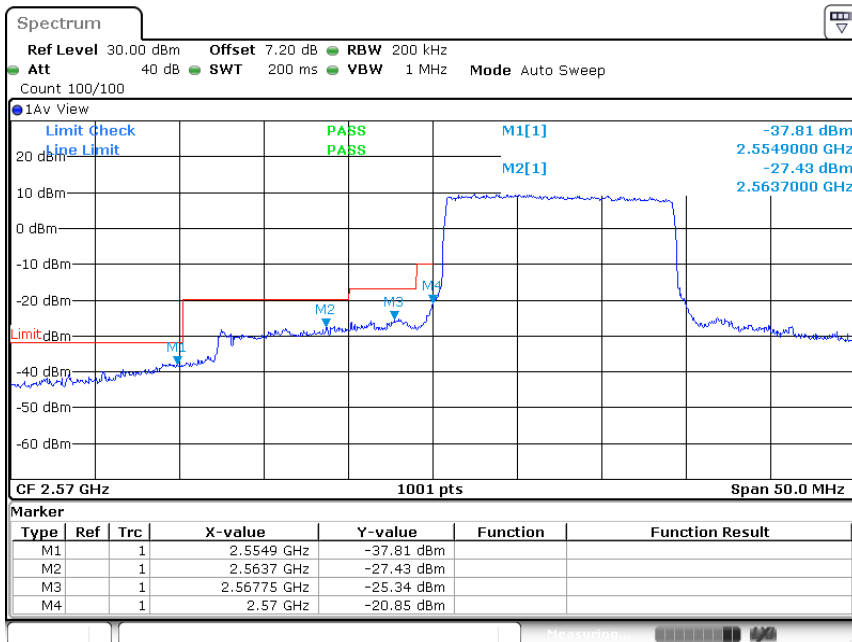
Band38-10MHz-64QAM-38200-50RB#0



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

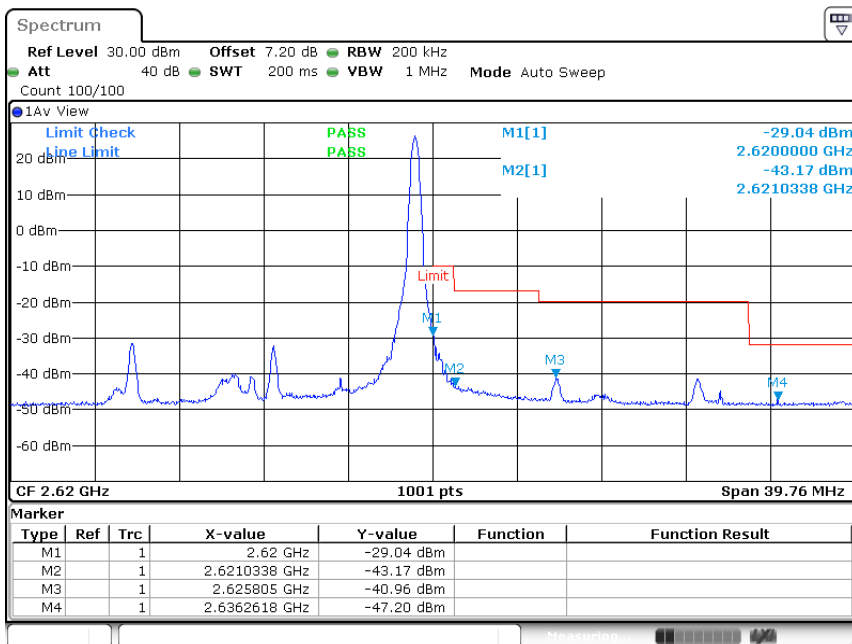


Band38-15MHz-QPSK-37825-75RB#0



Date: 4 DEC 2020 08:37:17

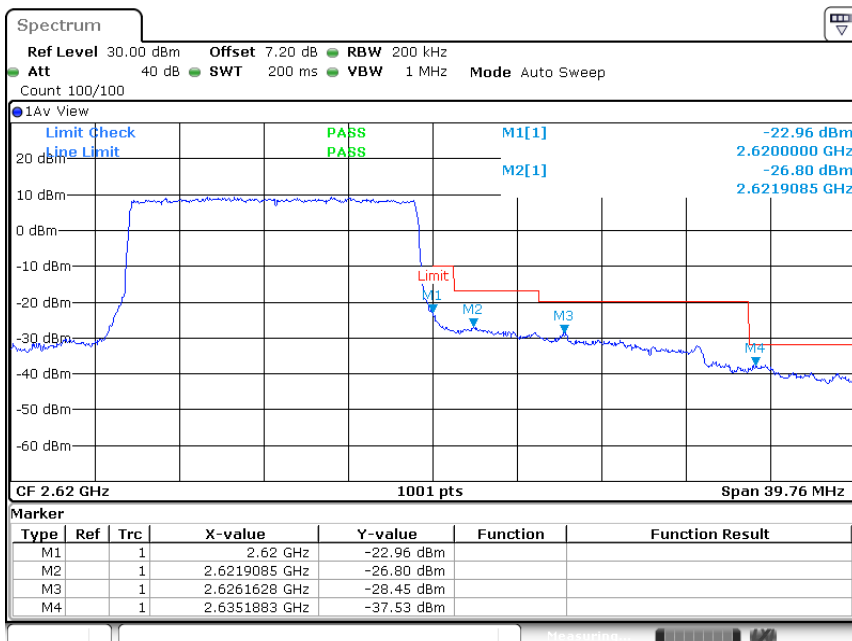
Band38-15MHz-QPSK-38175-1RB#74



Date: 4 DEC 2020 08:38:47

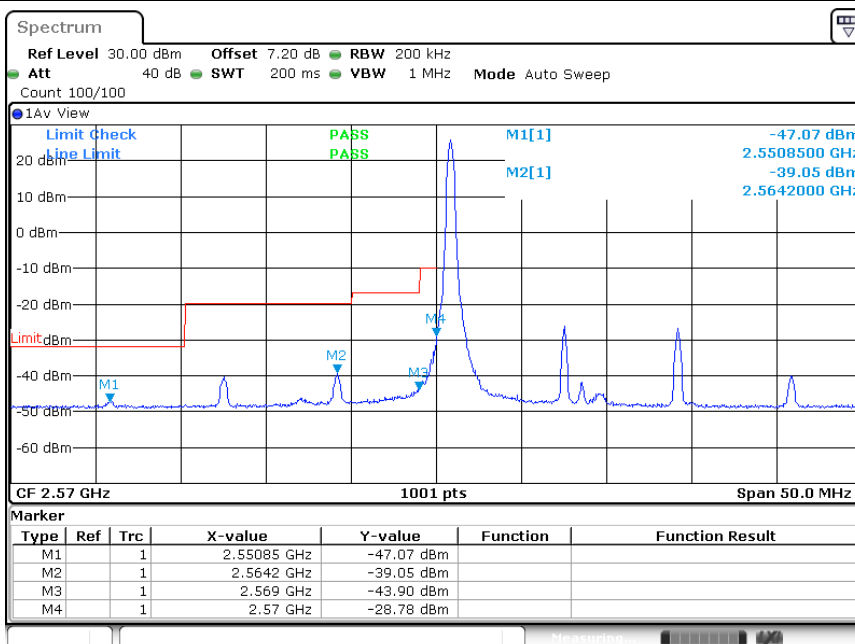


Band38-15MHz-QPSK-38175-75RB#0



Date: 4 DEC 2020 08:40:10

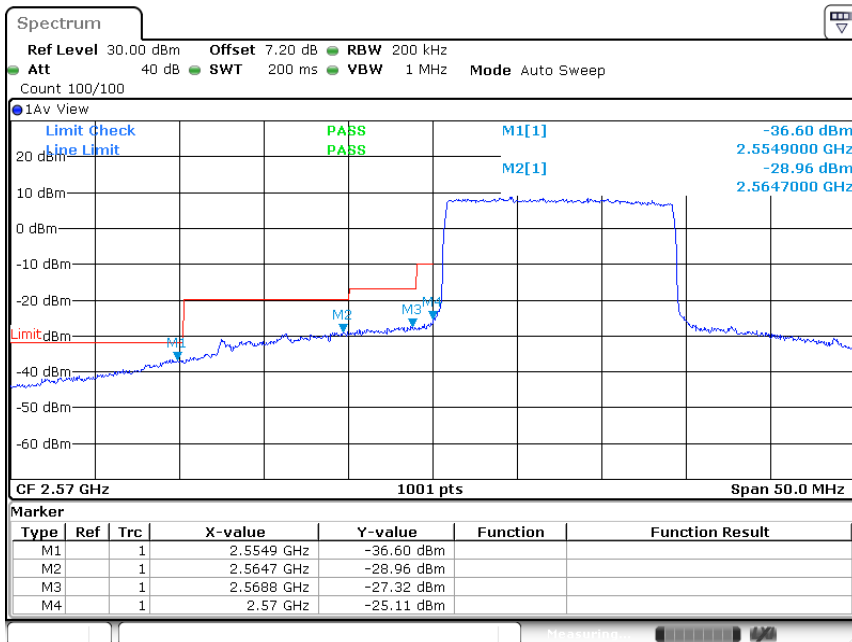
Band38-15MHz-16QAM-37825-1RB#0



Date: 14 DEC 2020 20:52:18

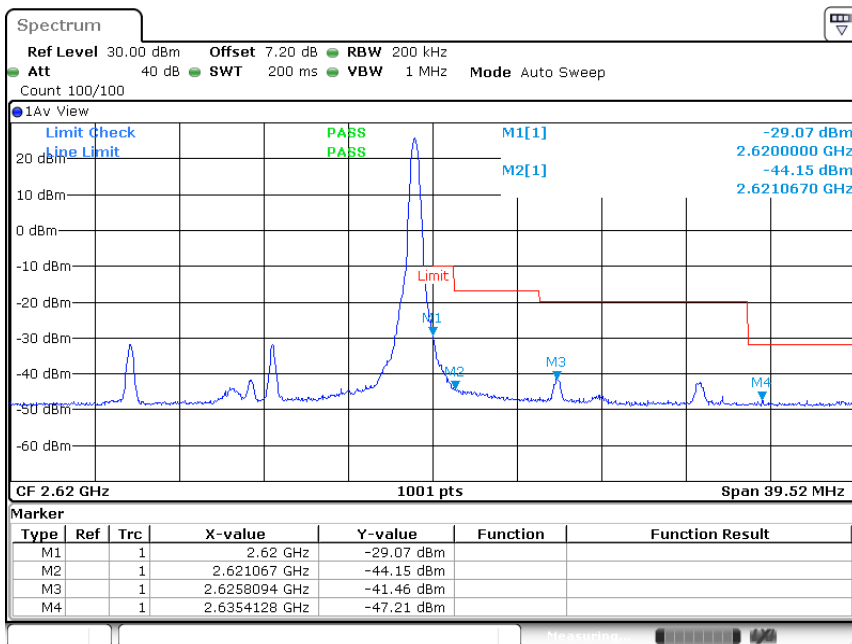


Band38-15MHz-16QAM-37825-75RB#0



Date: 4 DEC 2020 08:37:58

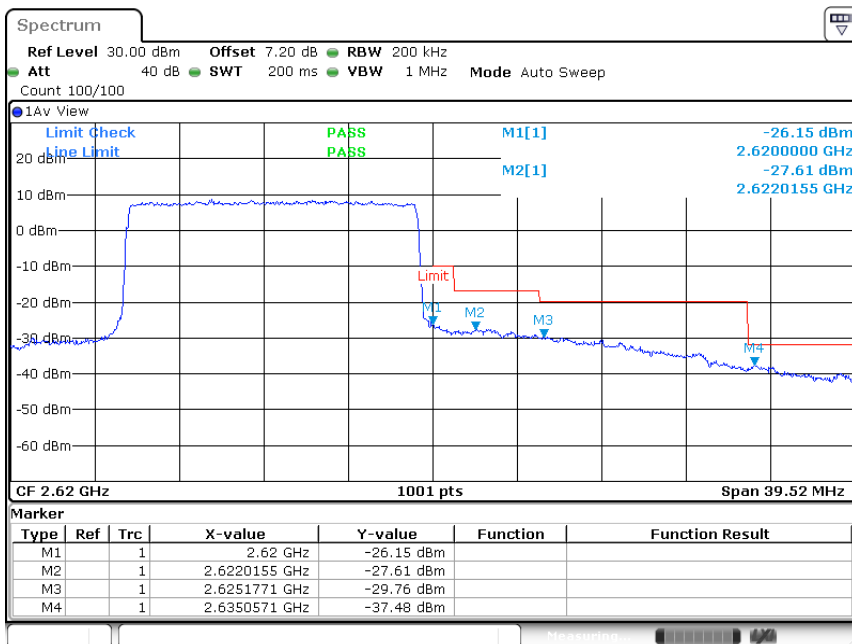
Band38-15MHz-16QAM-38175-1RB#74



Date: 4 DEC 2020 08:39:28

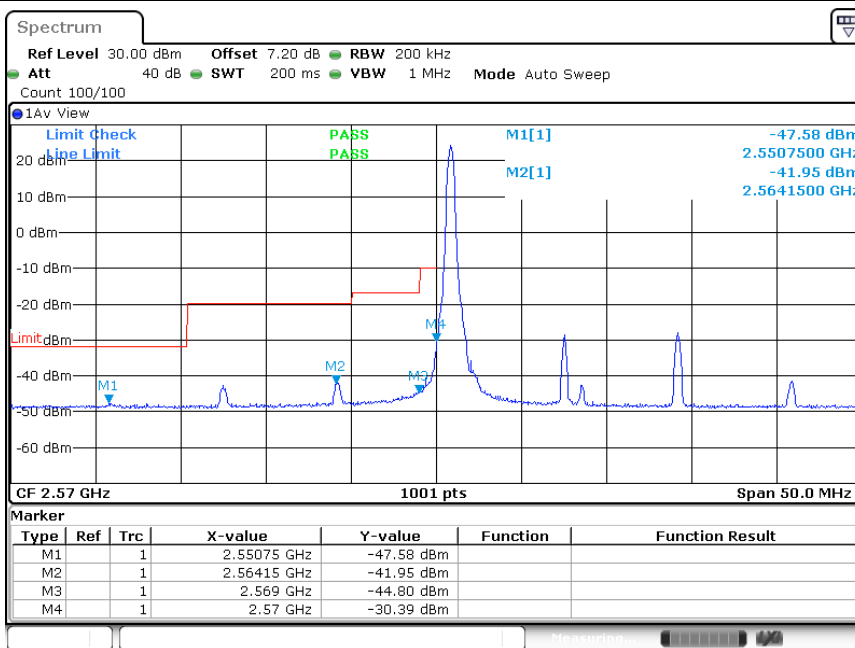


Band38-15MHz-16QAM-38175-75RB#0



Date: 4 DEC 2020 08:40:51

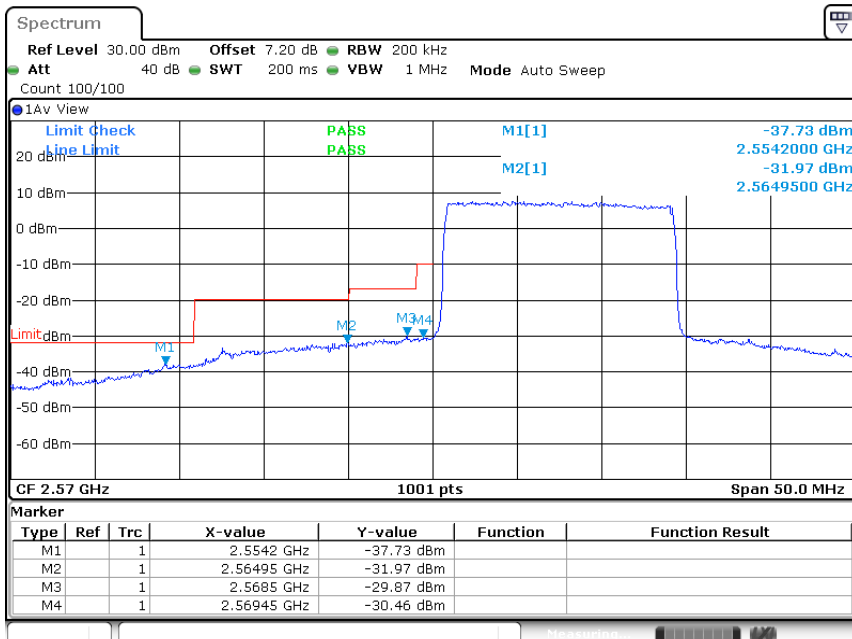
Band38-15MHz-64QAM-37825-1RB#0



Date: 14 DEC 2020 20:54:59

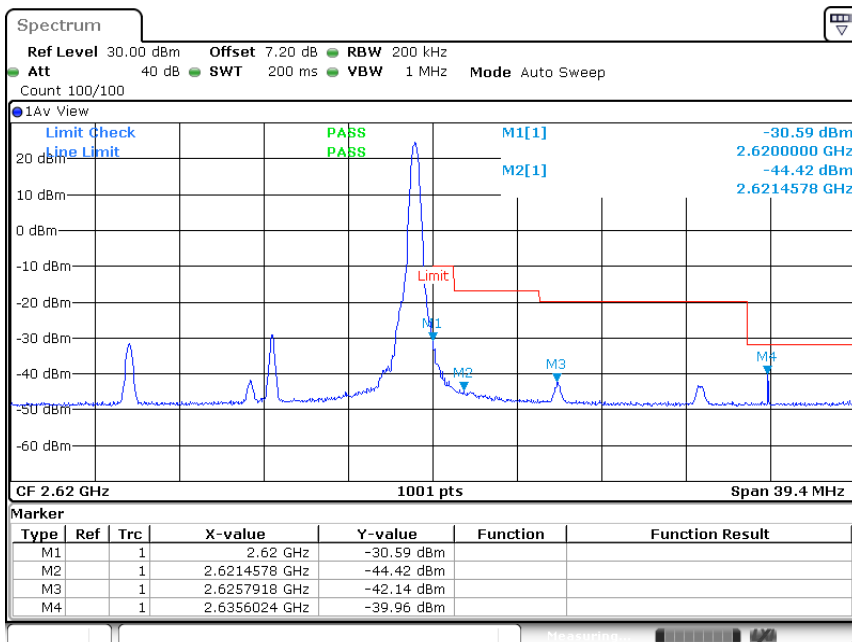


Band38-15MHz-64QAM-37825-75RB#0



Date: 4 DEC 2020 09:16:01

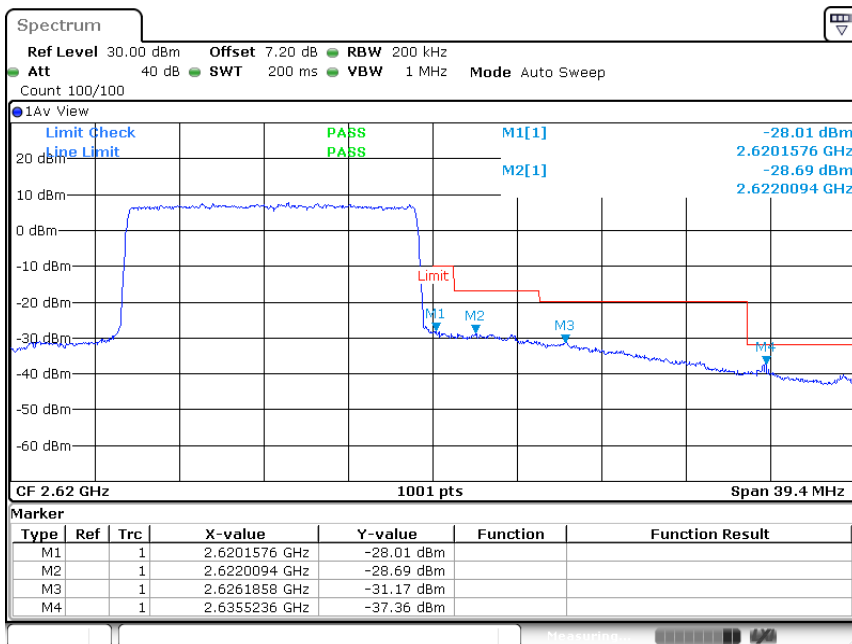
Band38-15MHz-64QAM-38175-1RB#74



Date: 4 DEC 2020 09:16:50

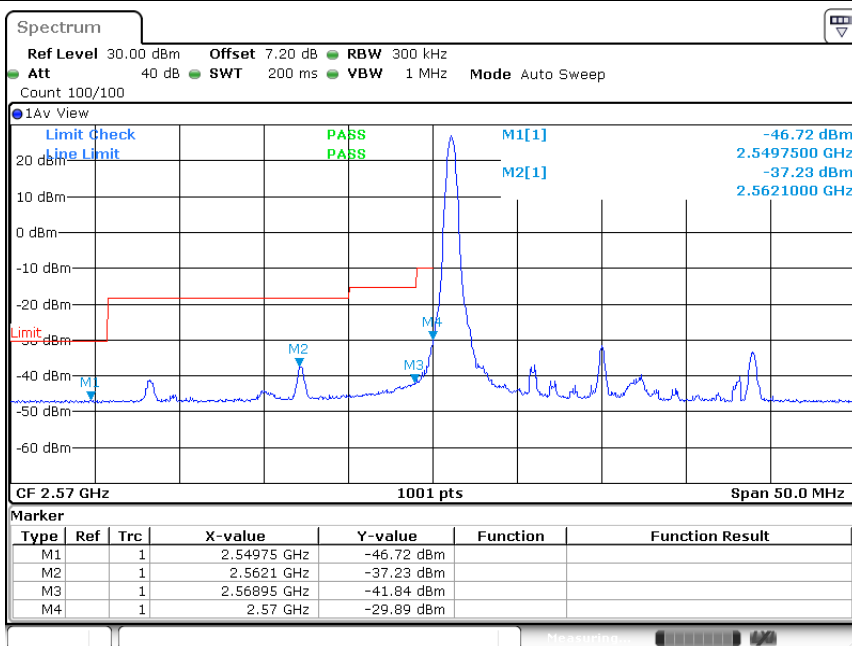


Band38-15MHz-64QAM-38175-75RB#0



Date: 4 DEC 2020 09:17:31

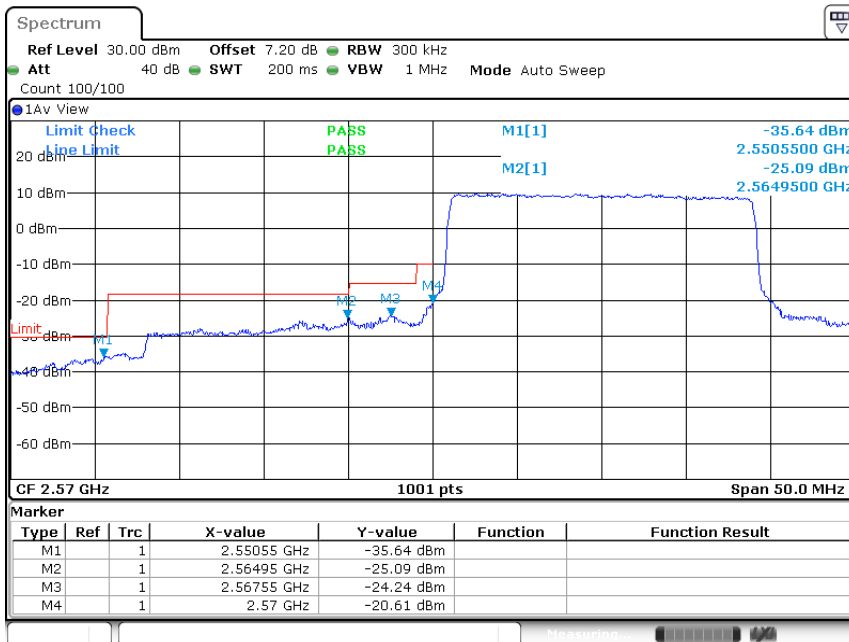
Band38-20MHz-QPSK-37850-1RB#0



Date: 4 DEC 2020 08:43:04

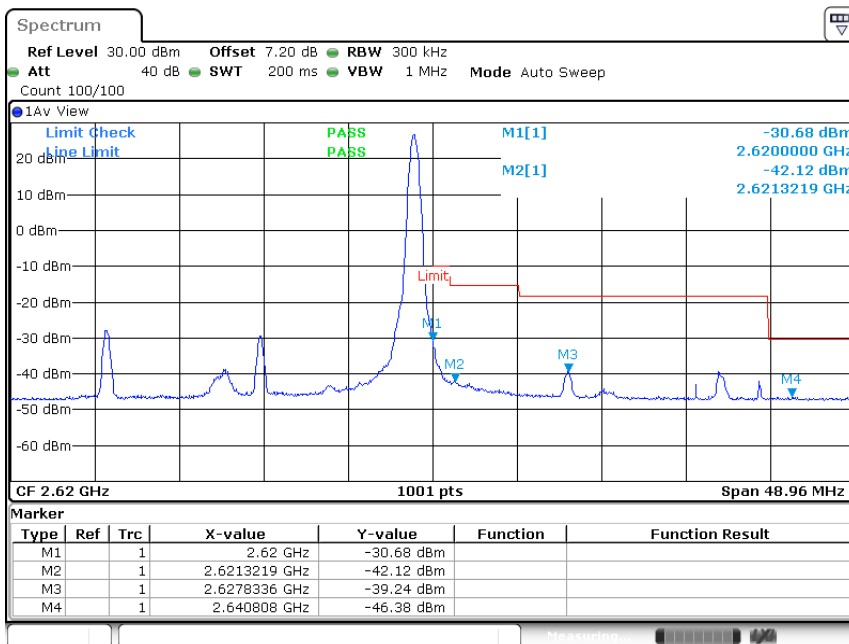


Band38-20MHz-QPSK-37850-100RB#0



Date: 4 DEC 2020 08:44:26

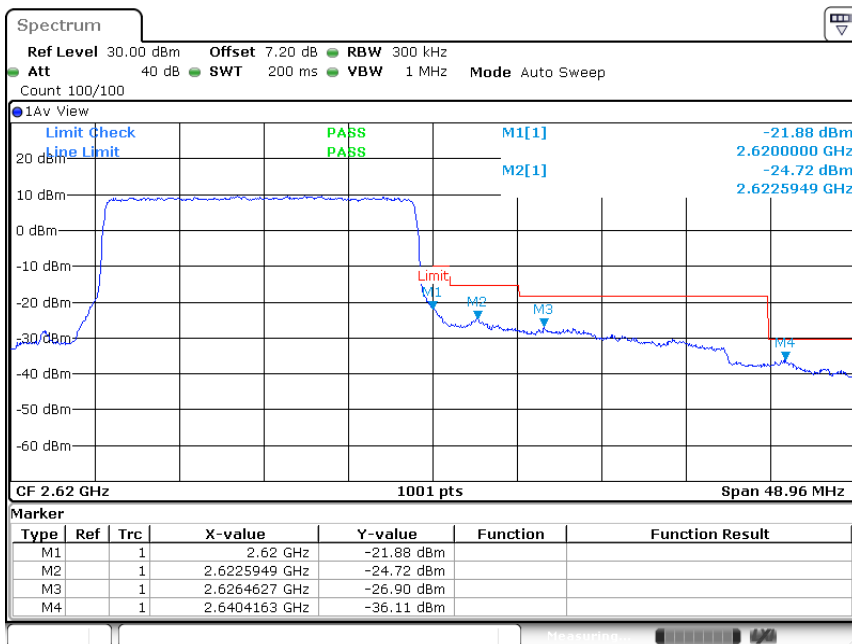
Band38-20MHz-QPSK-38150-1RB#99



Date: 4 DEC 2020 08:45:56

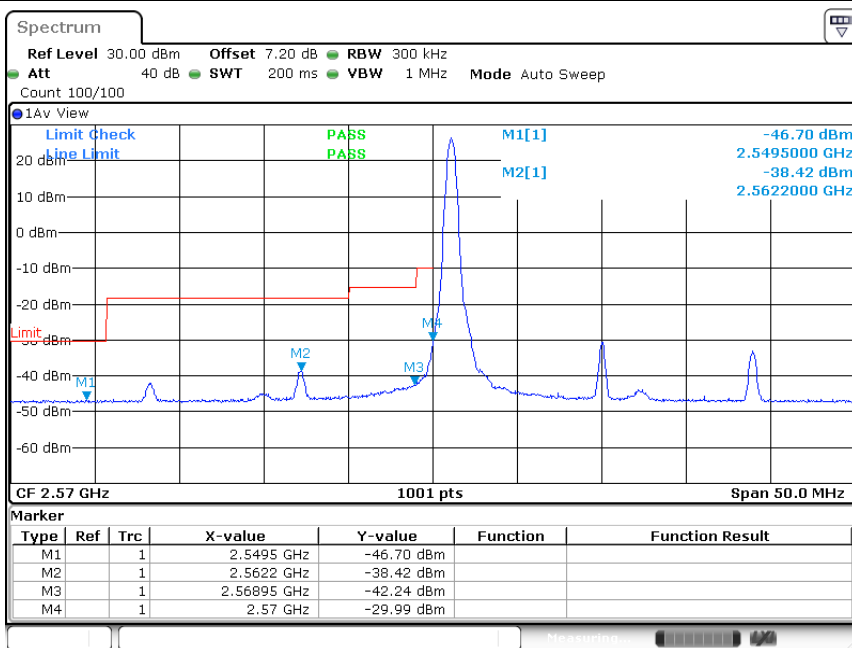


Band38-20MHz-QPSK-38150-100RB#0



Date: 4 DEC 2020 08:47:18

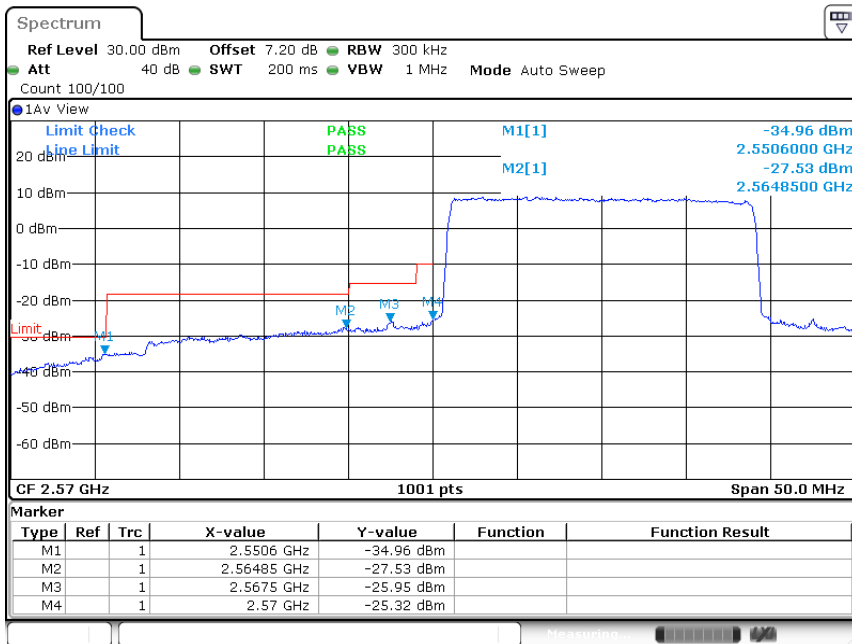
Band38-20MHz-16QAM-37850-1RB#0



Date: 4 DEC 2020 08:43:45

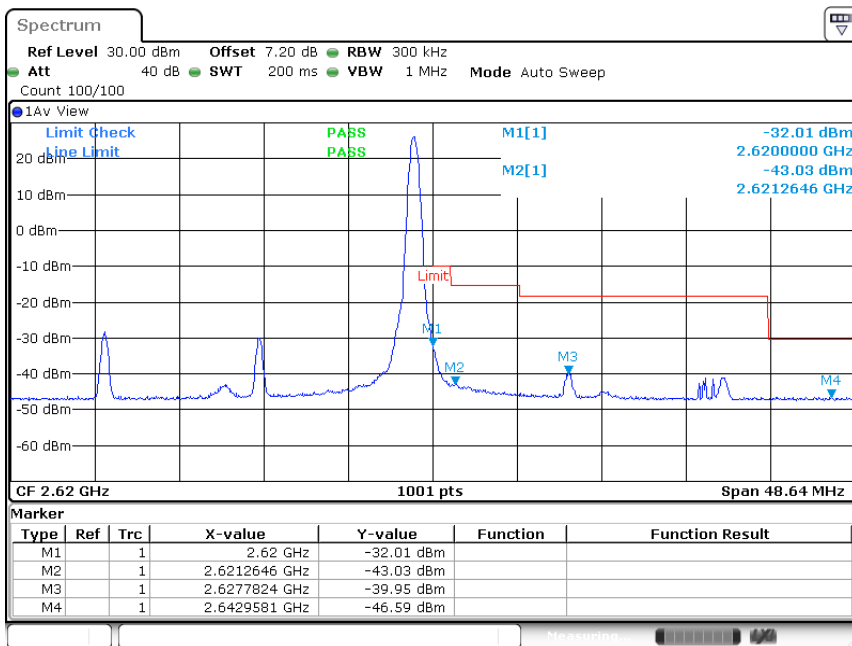


Band38-20MHz-16QAM-37850-100RB#0



Date: 4 DEC 2020 08:45:08

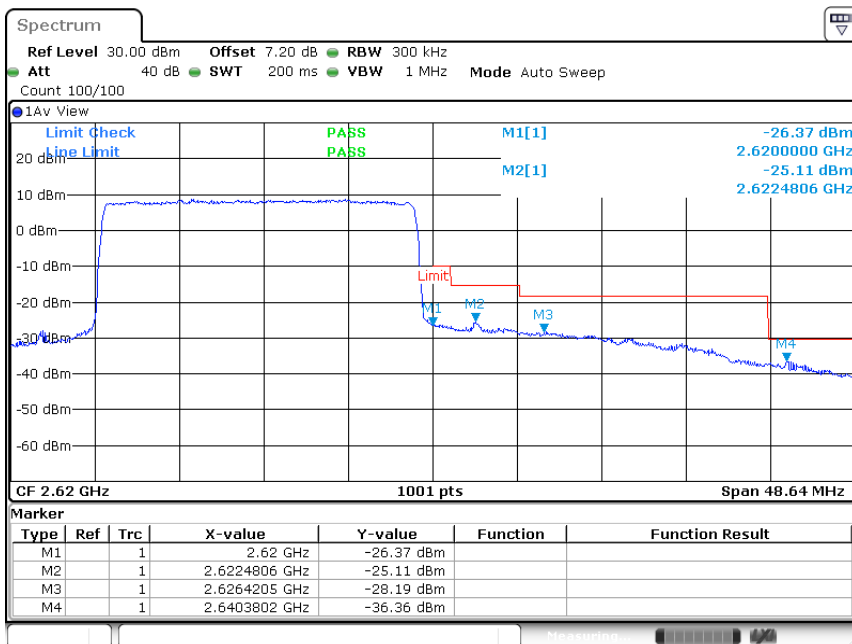
Band38-20MHz-16QAM-38150-1RB#99



Date: 4 DEC 2020 08:46:37

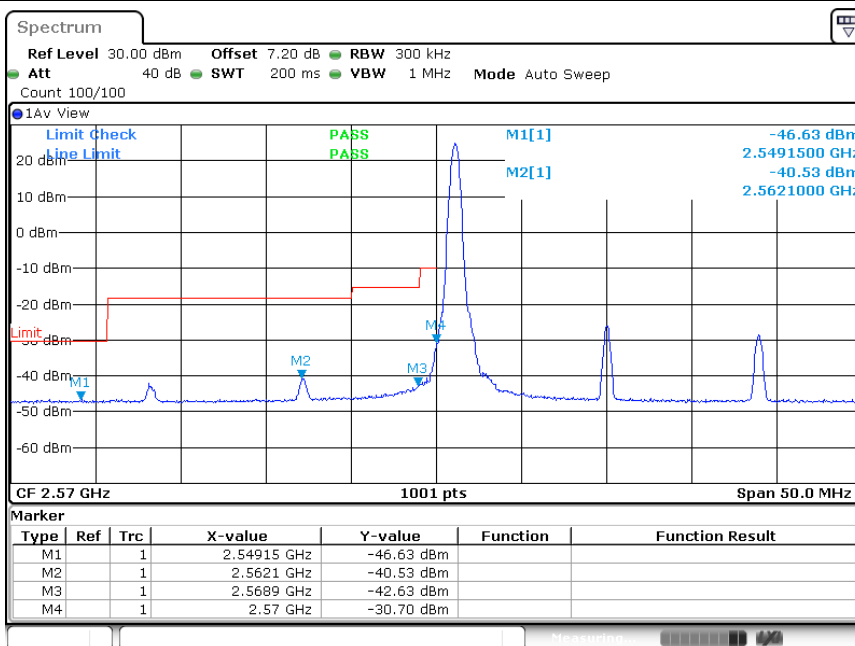


Band38-20MHz-16QAM-38150-100RB#0



Date: 4 DEC 2020 08:48:00

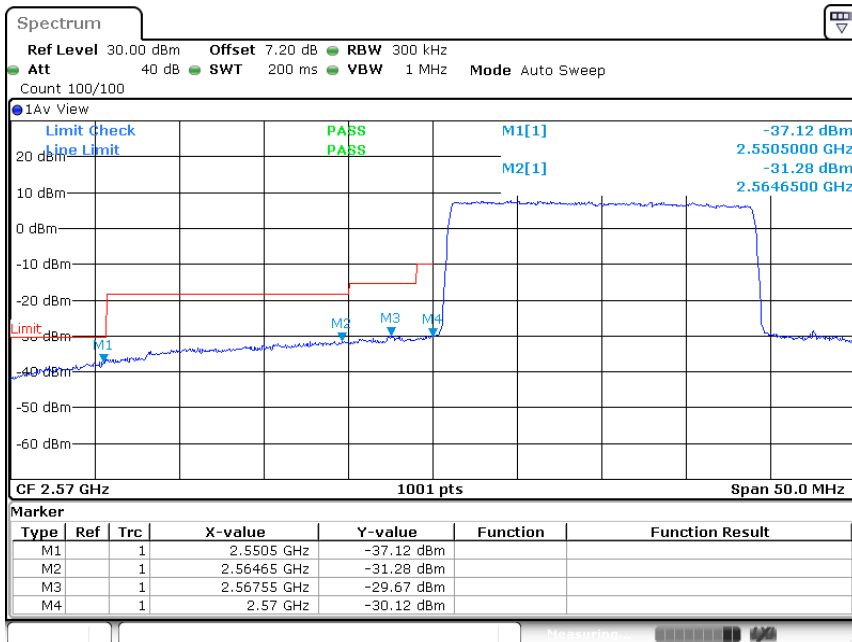
Band38-20MHz-64QAM-37850-1RB#0



Date: 14 DEC 2020 20:54:09

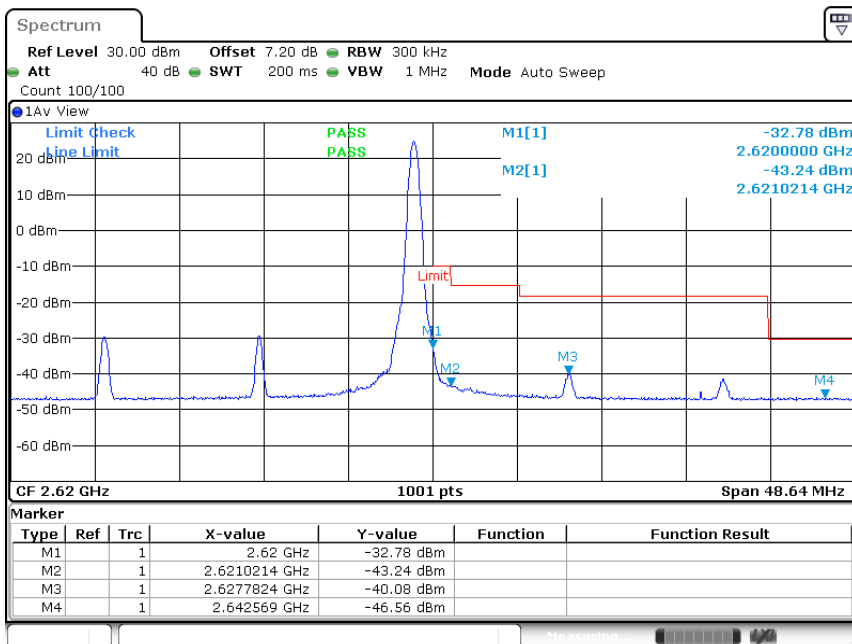


Band38-20MHz-64QAM-37850-100RB#0



Date: 4 DEC 2020 09:19:12

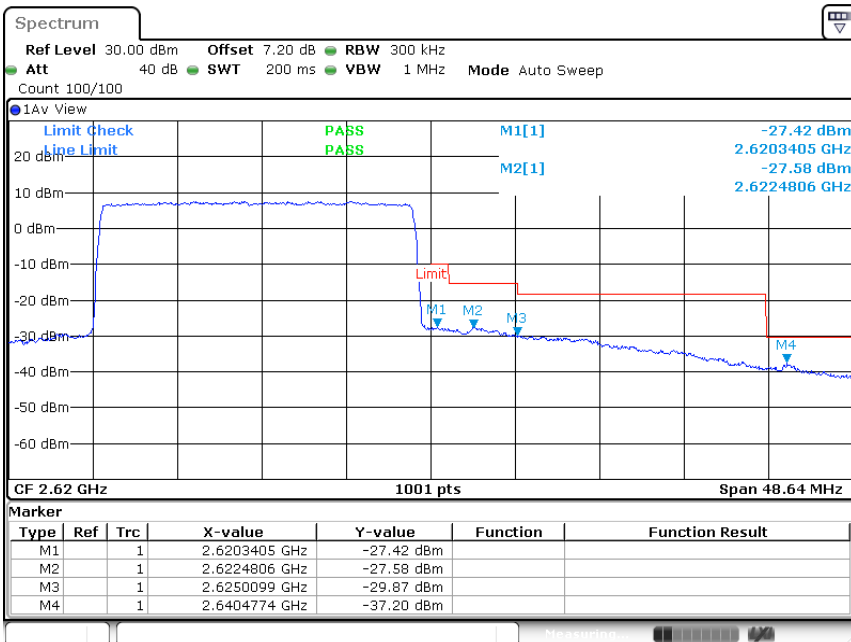
Band38-20MHz-64QAM-38150-1RB#99



Date: 4 DEC 2020 09:20:30



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



Date: 4 DEC 2020 09:20:41

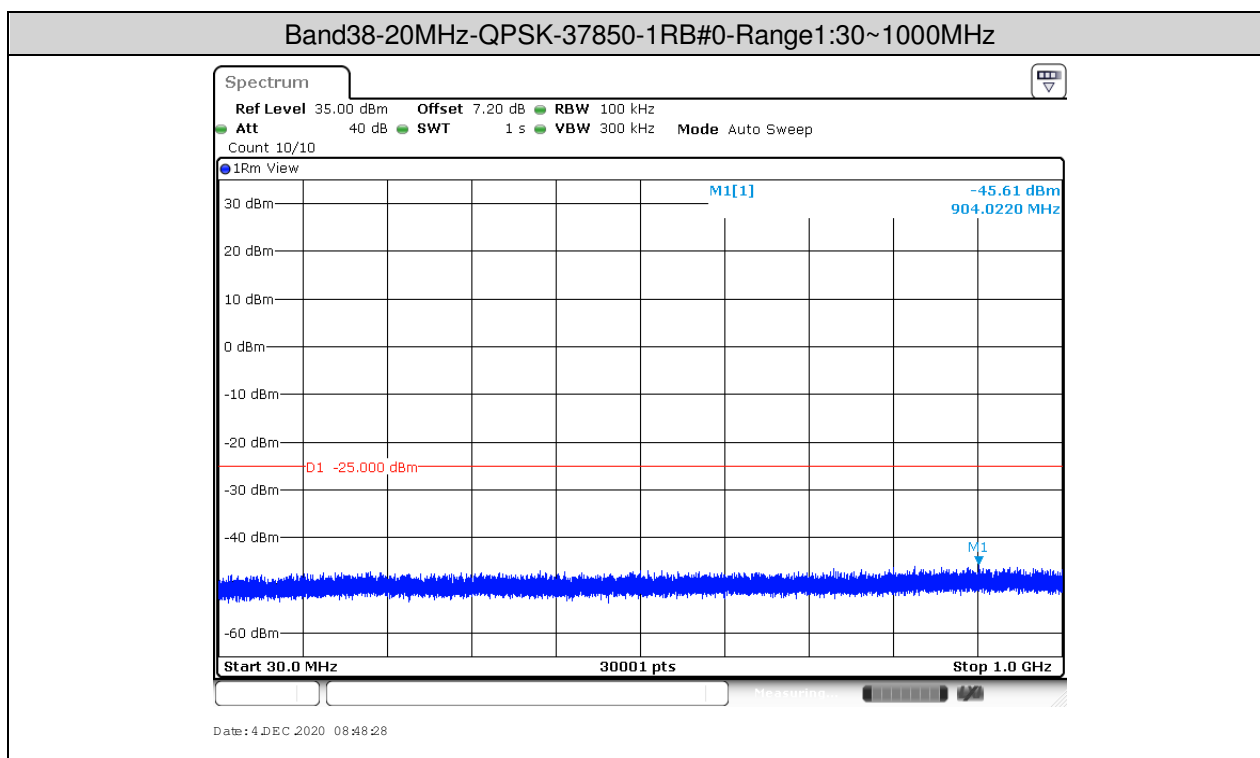


6. Spurious Emission at Antenna Terminal

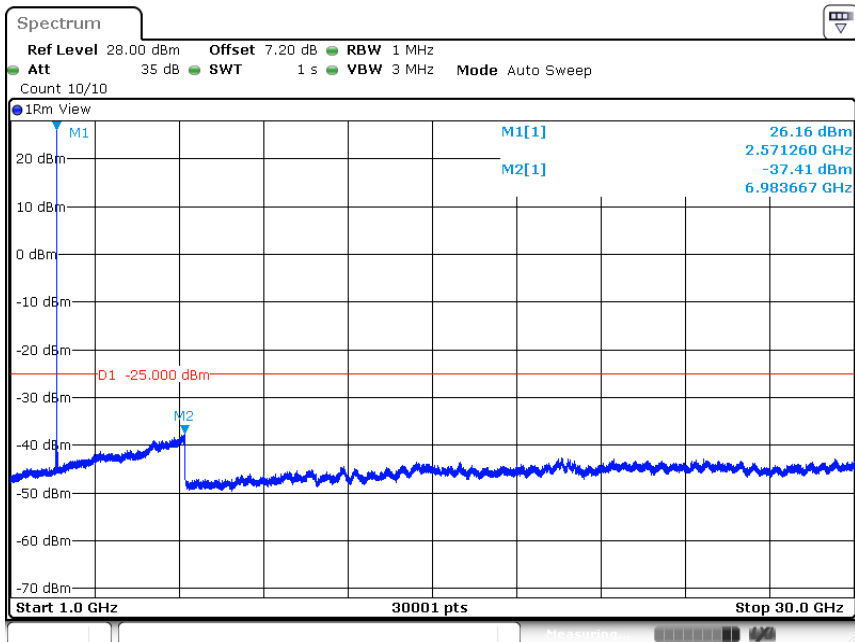
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

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

6.1. Test Plots

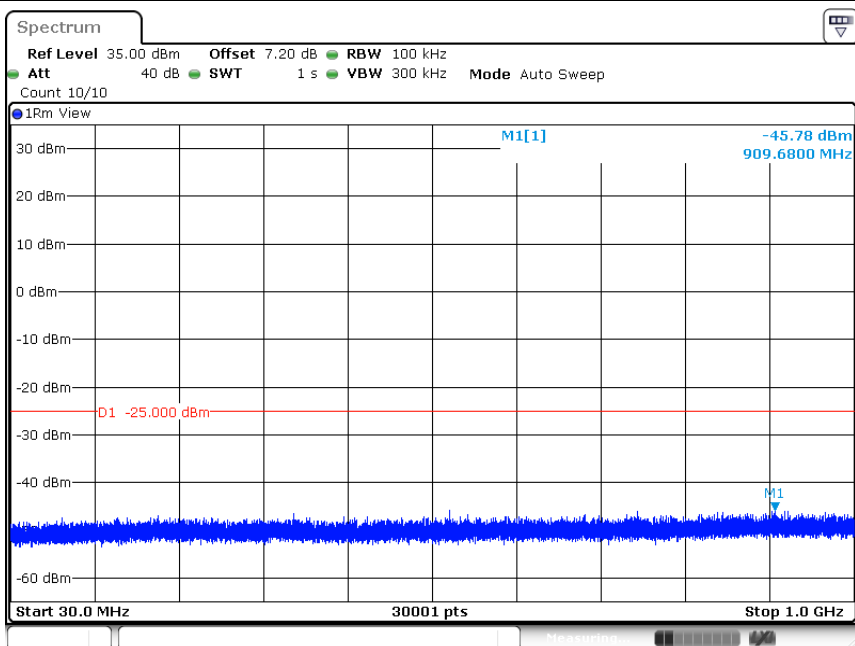


Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:48:48

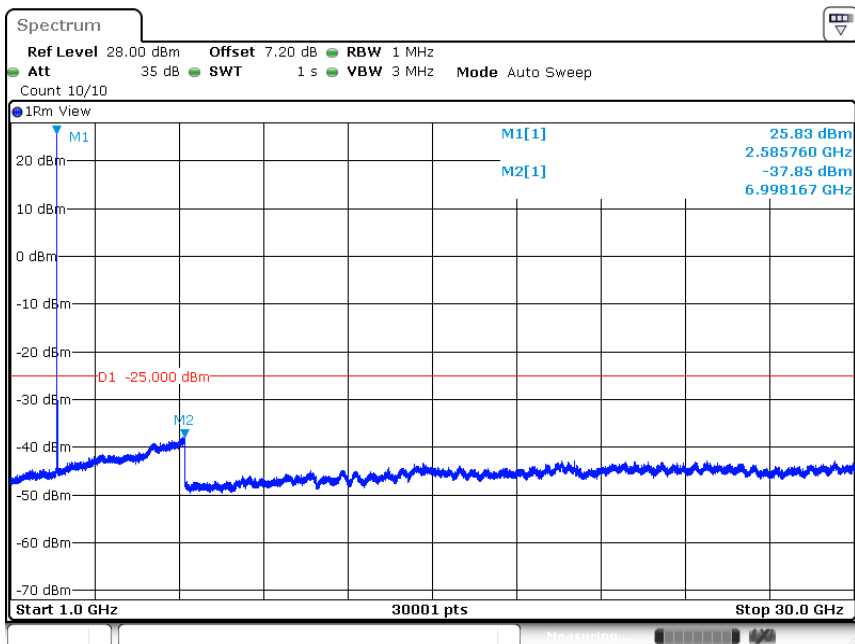
Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 08:49:56

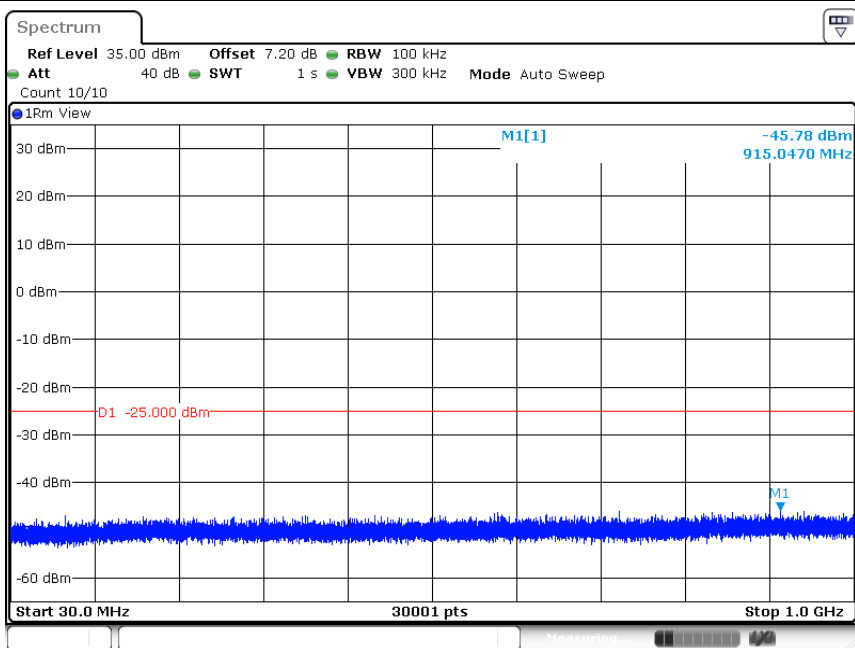


Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:50:16

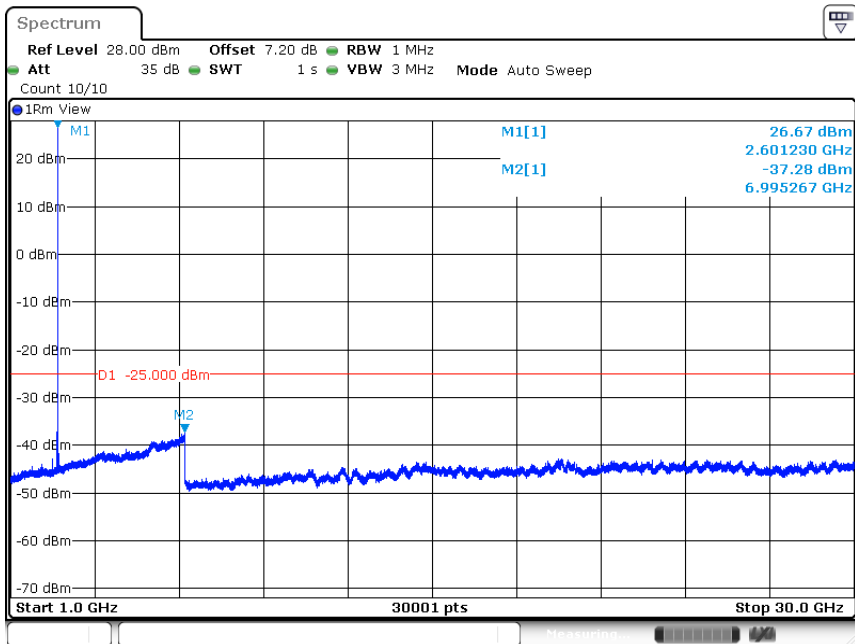
Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 08:51:25

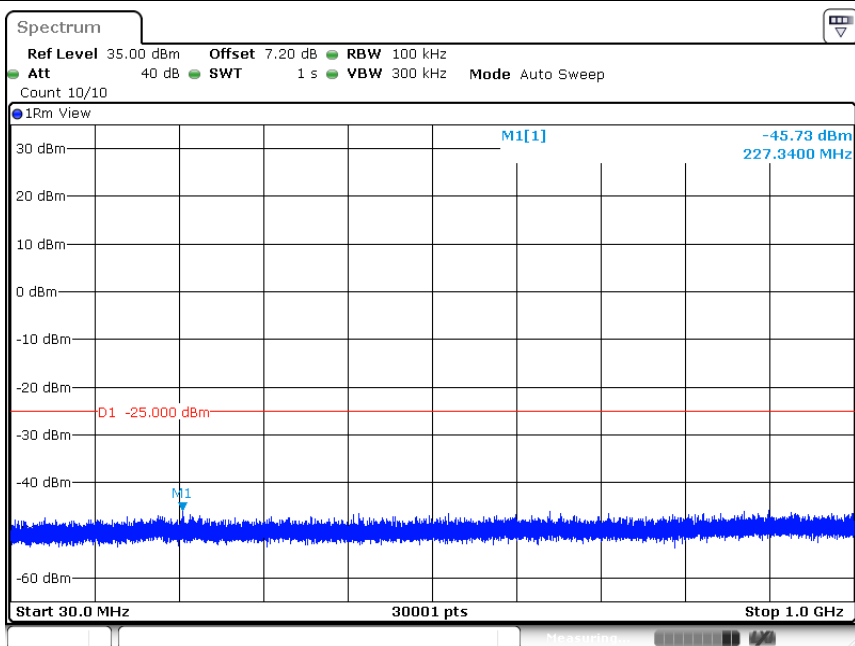


Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:51:45

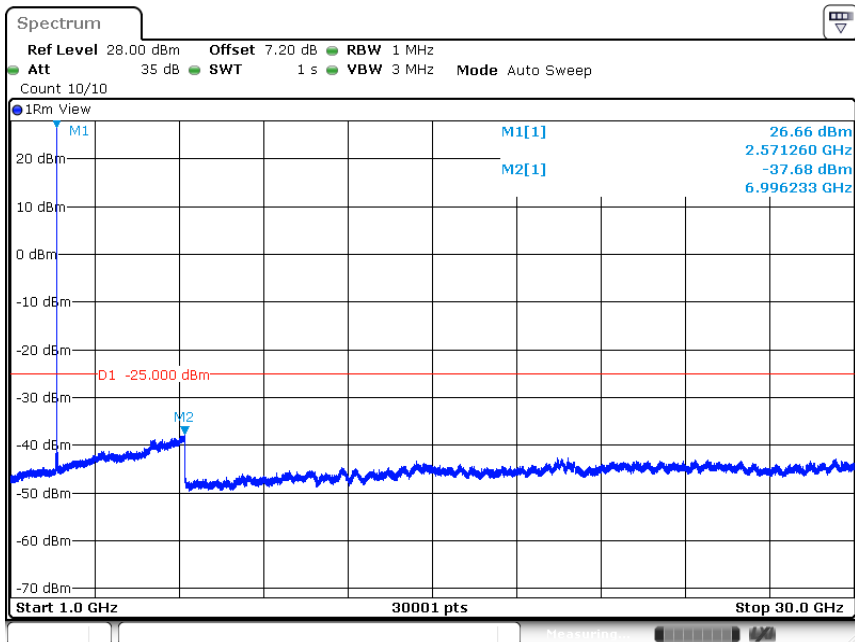
Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 08:49:12

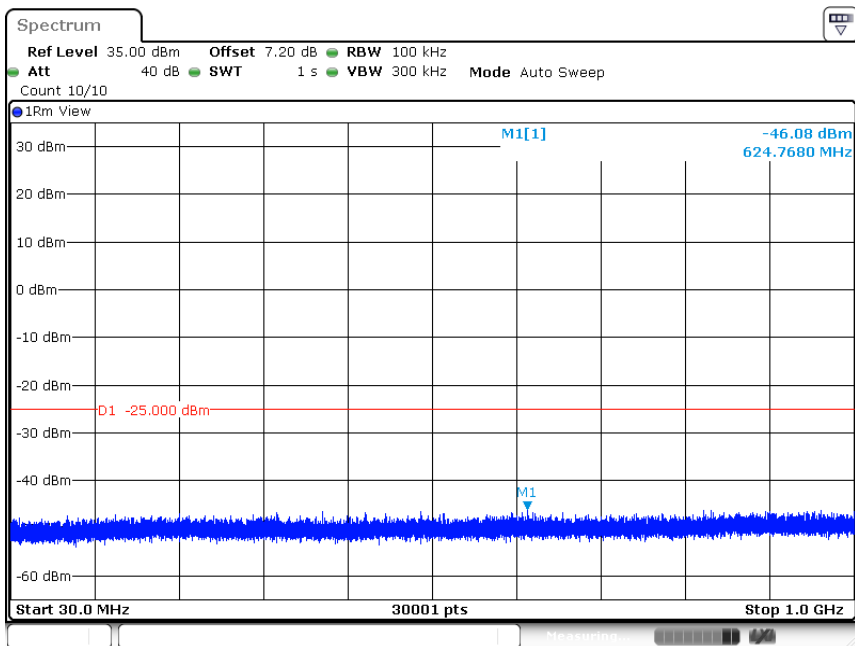


Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:49:32

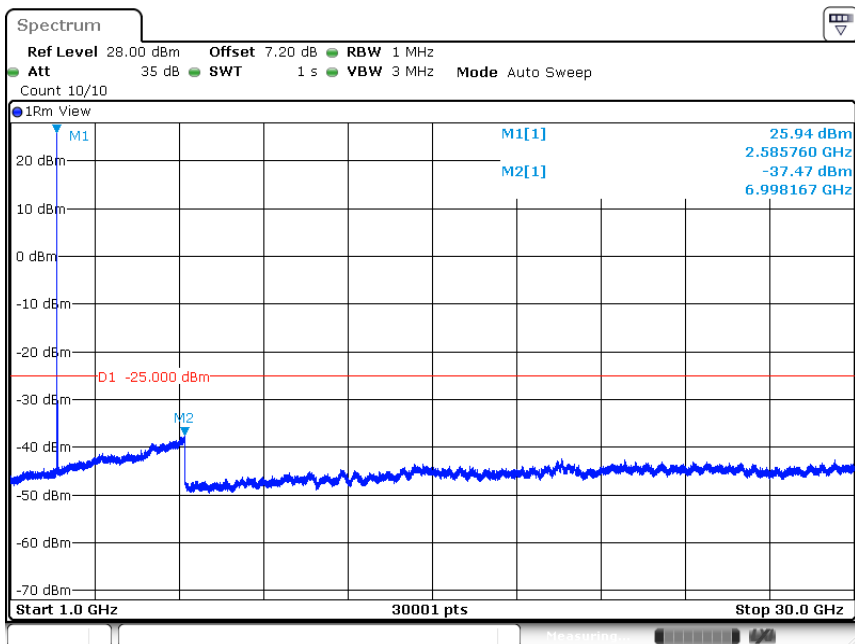
Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 08:50:41

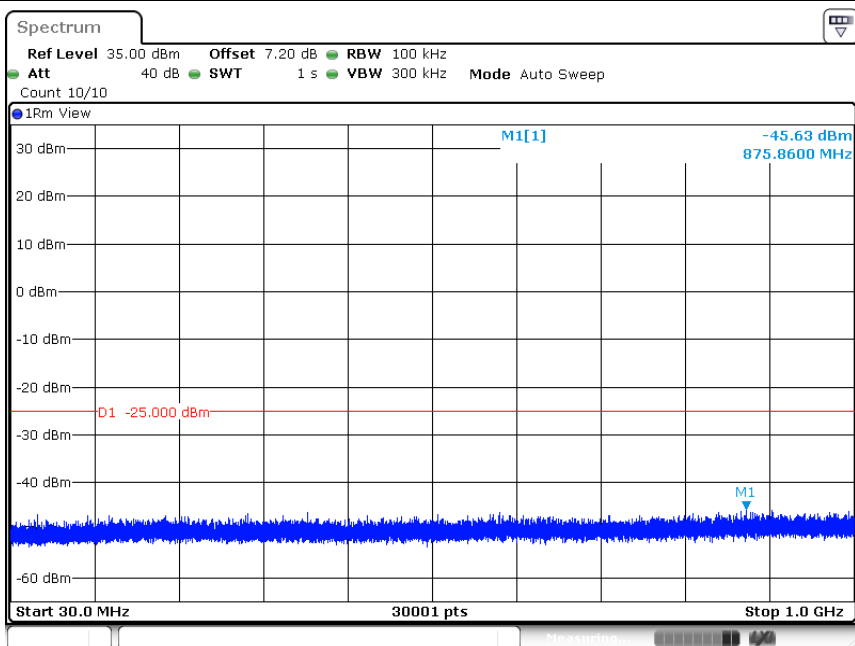


Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:51:00

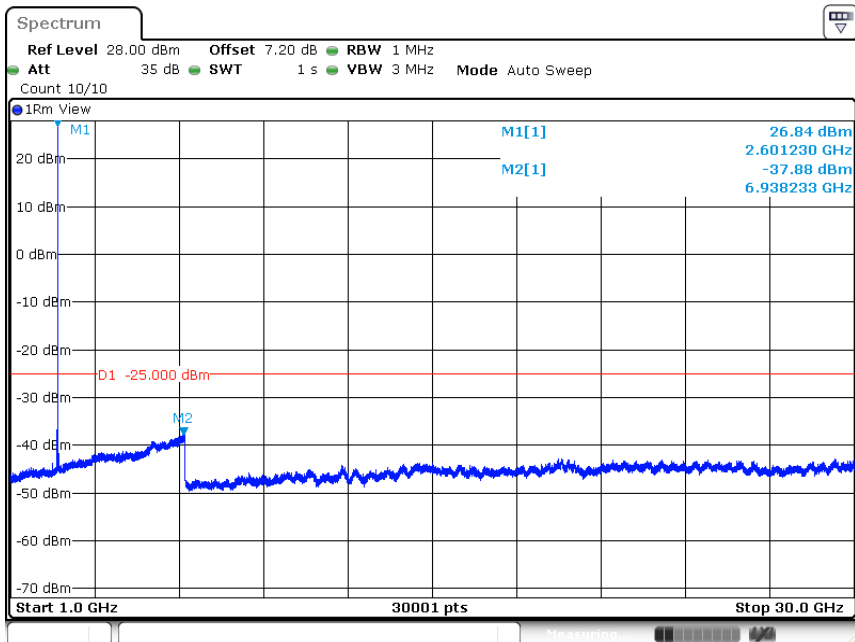
Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 08:52:09

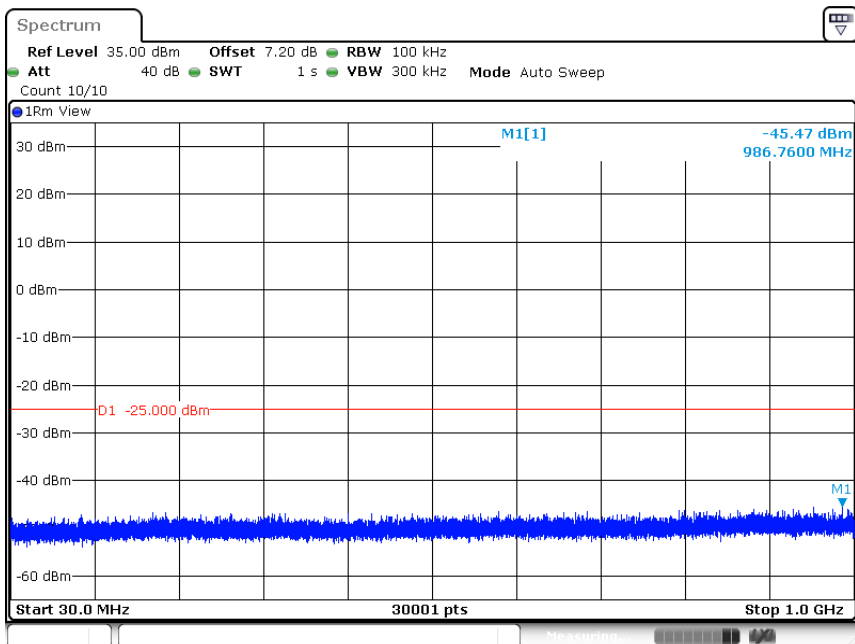


Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 08:52:32

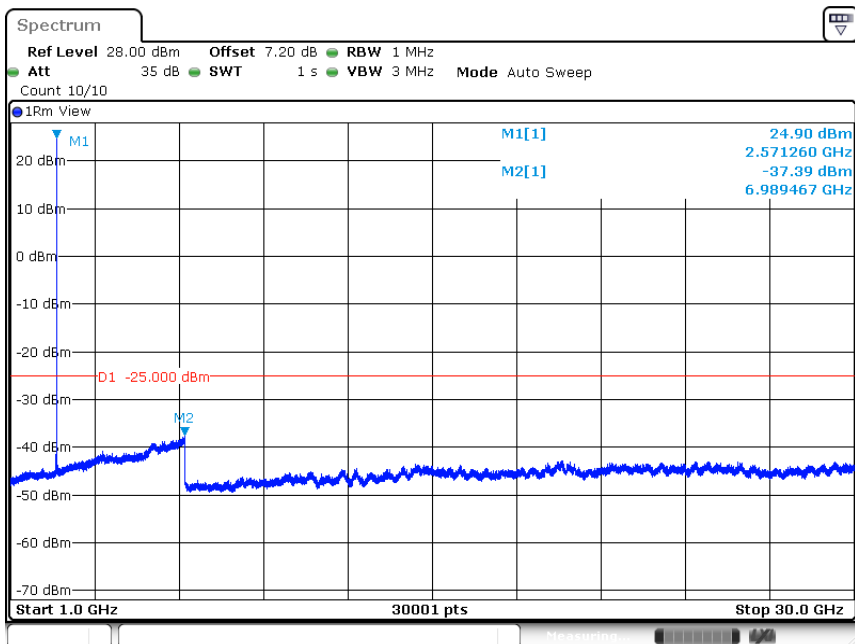
Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 09:21:10

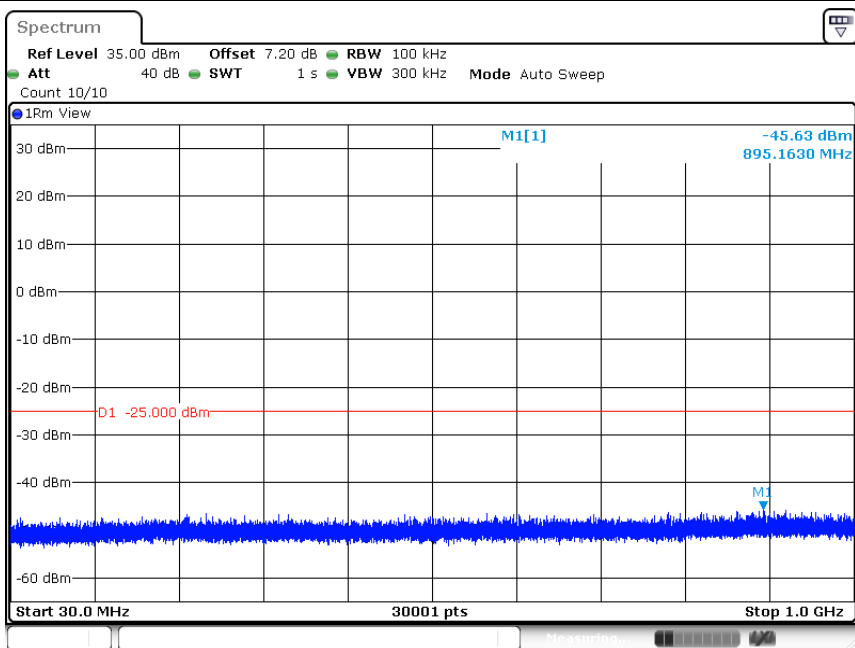


Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 09:21:29

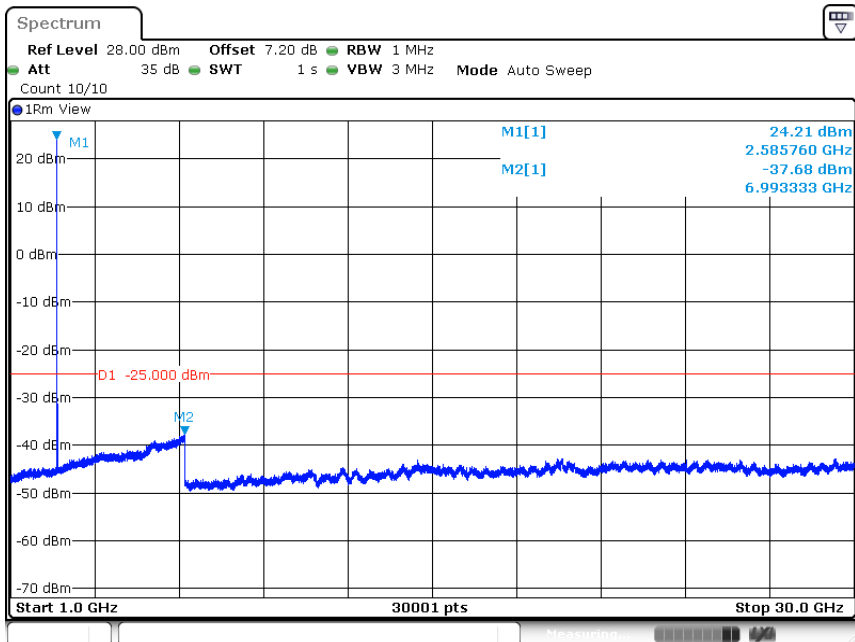
Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 09:21:54

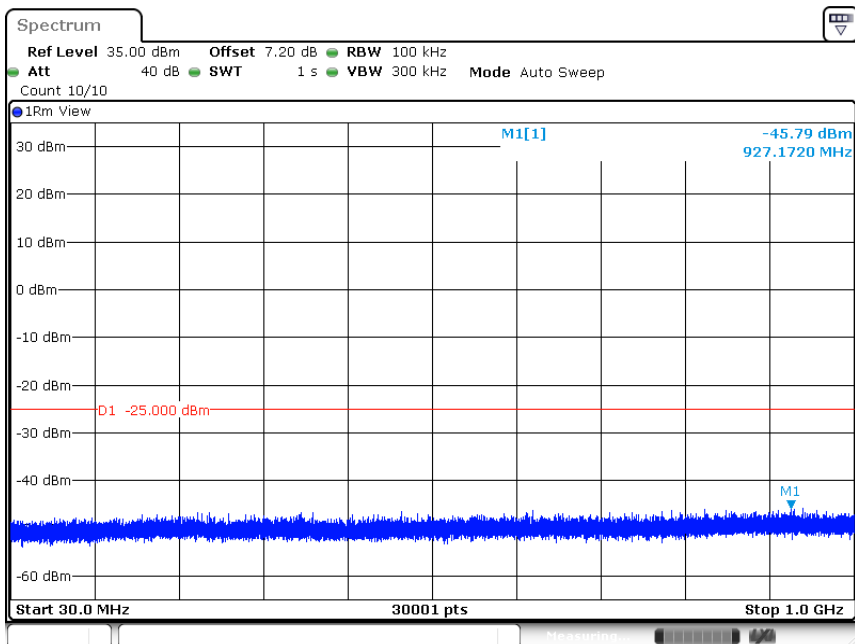


Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Date: 4 DEC 2020 09:22:14

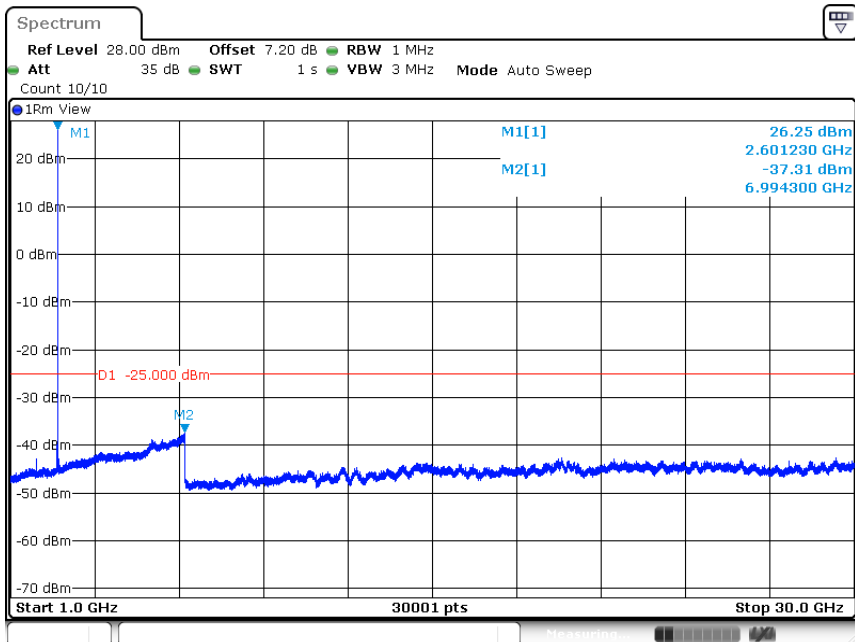
Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



Date: 4 DEC 2020 09:22:38



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



Date: 4 DEC 2020 09:22:58



7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_38_TM1 CONFIG 0

7.1.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.9687	-62.66	-25.00	37.66	Horizontal
2	229.5875	-67.41	-25.00	42.41	Horizontal
3	665.5273	-62.34	-25.00	37.34	Horizontal
4	2722.7445	-36.60	-25.00	11.60	Horizontal
5	7452.1484	-55.70	-25.00	30.70	Horizontal
6	17999.000	-42.98	-25.00	17.98	Horizontal



7.2. Test Band = LTE_38_TM1 CONFIG 0

7.2.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	53.6207	-71.43	-25.00	46.43	Vertical
2	113.0847	-63.67	-25.00	38.67	Vertical
3	568.9104	-64.34	-25.00	39.34	Vertical
4	2703.1406	-36.77	-25.00	11.77	Vertical
5	7358.6453	-54.99	-25.00	29.99	Vertical
6	17992.999	-38.56	-25.00	13.56	Vertical



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

7.3. Test Band = LTE_38_TM1 CONFIG 0**7.3.1. Test Channel = Mid Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.7262	-63.01	-25.00	38.01	Horizontal
2	248.9399	-67.24	-25.00	42.24	Horizontal
3	759.7675	-61.03	-25.00	36.03	Horizontal
4	2702.3405	-35.78	-25.00	10.78	Horizontal
5	7457.1486	-55.30	-25.00	30.30	Horizontal
6	17997.499	-43.21	-25.00	18.21	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

7.4. Test Band = LTE_38_TM1 CONFIG 0

7.4.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	49.0615	-71.67	-25.00	46.67	Vertical
2	112.3571	-64.29	-25.00	39.29	Vertical
3	577.8349	-64.52	-25.00	39.52	Vertical
4	1764.1528	-41.61	-25.00	16.61	Vertical
5	7451.1484	-55.34	-25.00	30.34	Vertical
6	17986.999	-38.60	-25.00	13.60	Vertical



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

7.5. Test Band = LTE_38_TM1 CONFIG 0

7.5.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.5322	-63.11	-25.00	38.11	Horizontal
2	231.4791	-67.77	-25.00	42.77	Horizontal
3	763.8417	-61.48	-25.00	36.48	Horizontal
4	1763.7528	-40.93	-25.00	15.93	Horizontal
5	7480.1493	-55.41	-25.00	30.41	Horizontal
6	16383.946	-43.35	-25.00	18.35	Horizontal



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

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

7.6. Test Band = LTE_38_TM1 CONFIG 0

7.6.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.6734	-72.21	-25.00	47.21	Vertical
2	110.5140	-63.92	-25.00	38.92	Vertical
3	585.7408	-62.09	-25.00	37.09	Vertical
4	2949.5899	-37.69	-25.00	12.69	Vertical
5	7375.6459	-55.09	-25.00	30.09	Vertical
6	17999.000	-38.63	-25.00	13.63	Vertical



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

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

7.7. Test Band = LTE_38_TM1 CONFIG 1

7.7.1. Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.0885	-63.55	-25.00	38.55	Horizontal
2	228.8599	-67.44	-25.00	42.44	Horizontal
3	615.0848	-62.97	-25.00	37.97	Horizontal
4	2696.3393	-35.79	-25.00	10.79	Horizontal
5	6345.6115	-59.71	-25.00	34.71	Horizontal
6	16399.946	-42.95	-25.00	17.95	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

7.8. Test Band = LTE_38_TM1 CONFIG 1**7.8.1. Test Channel = Low Channel**

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.3896	-70.83	-25.00	45.83	Vertical
2	107.3129	-64.55	-25.00	39.55	Vertical
3	407.1549	-67.50	-25.00	42.50	Vertical
4	2981.5963	-37.77	-25.00	12.77	Vertical
5	5098.5700	-61.12	-25.00	36.12	Vertical
6	17999.500	-38.69	-25.00	13.69	Vertical



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

7.9. Test Band = LTE_38_TM1 CONFIG 1

7.9.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3082	-63.17	-25.00	38.17	Horizontal
2	239.7245	-66.70	-25.00	41.70	Horizontal
3	731.2481	-61.78	-25.00	36.78	Horizontal
4	2724.3449	-36.27	-25.00	11.27	Horizontal
5	6758.1253	-58.54	-25.00	33.54	Horizontal
6	16399.946	-42.87	-25.00	17.87	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

7.10. Test Band = LTE_38_TM1 CONFIG 1

7.10.1. Test Channel = Mid Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	51.2926	-71.06	-25.00	46.06	Vertical
2	108.5739	-63.43	-25.00	38.43	Vertical
3	518.1284	-65.79	-25.00	40.79	Vertical
4	2988.3977	-37.80	-25.00	12.80	Vertical
5	6381.6127	-60.29	-25.00	35.29	Vertical
6	17989.499	-38.65	-25.00	13.65	Vertical



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

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

7.11. Test Band = LTE_38_TM1 CONFIG 1

7.11.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3867	-62.59	-25.00	37.59	Horizontal
2	236.7658	-67.22	-25.00	42.22	Horizontal
3	600.2430	-62.68	-25.00	37.68	Horizontal
4	2700.3401	-35.72	-25.00	10.72	Horizontal
5	7459.1486	-55.81	-25.00	30.81	Horizontal
6	16393.446	-43.32	-25.00	18.32	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

7.12. Test Band = LTE_38_TM1 CONFIG 1

7.12.1. Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.4195	-71.30	-25.00	46.30	Vertical
2	116.6738	-64.53	-25.00	39.53	Vertical
3	465.2123	-66.35	-25.00	41.35	Vertical
4	2993.1986	-37.69	-25.00	12.69	Vertical
5	6013.6005	-61.00	-25.00	36.00	Vertical
6	17991.499	-38.17	-25.00	13.17	Vertical

Remark:

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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	5.50	0.002132	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	1.40	0.000543	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	4.80	0.001860	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-3.80	-0.001464	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	3.40	0.001310	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-0.10	-0.000039	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	2.80	0.001073	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-0.90	-0.000345	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	3.45	0.001322	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	5.10	0.001977	±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	-0.90	-0.000349	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-2.30	-0.000886	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	3.10	0.001195	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-3.50	-0.001349	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-1.40	-0.000536	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	0.10	0.000038	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	2.80	0.001073	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	2.10	0.000814	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-9.50	-0.003682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	3.30	0.001279	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-3.00	-0.001156	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-2.90	-0.001118	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	3.20	0.001233	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-0.30	-0.000115	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	0.70	0.000268	±2.5	PASS



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

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



8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-4.40	-0.001705	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	2.20	0.000853	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	2.10	0.000814	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-0.60	-0.000233	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	1.40	0.000543	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	3.50	0.001357	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	0.20	0.000078	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	13.30	0.005155	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-0.10	-0.000039	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-0.80	-0.000308	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-4.50	-0.001734	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	1.40	0.000539	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	1.50	0.000578	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-0.60	-0.000231	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	0.60	0.000231	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-4.10	-0.001580	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-0.46	-0.000176	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	2.49	0.000950	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	3.70	0.001418	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	1.10	0.000421	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	2.00	0.000766	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-1.90	-0.000728	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-0.60	-0.000230	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	0.60	0.000230	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	1.00	0.000388	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	1.10	0.000426	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-3.60	-0.001395	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	2.80	0.001085	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	9.90	0.003837	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-4.90	-0.001899	±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 (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	37850	100RB#0	NV	30	1.50	0.000581	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-0.70	-0.000271	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-3.20	-0.001240	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-1.40	-0.000539	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	5.50	0.002119	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-4.00	-0.001541	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	0.80	0.000308	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-4.20	-0.001618	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	3.40	0.001310	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-0.10	-0.000039	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-0.60	-0.000231	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-0.40	-0.000153	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	3.70	0.001418	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-159.10	-0.060958	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	4.40	0.001686	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-0.70	-0.000268	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-0.20	-0.000077	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-3.20	-0.001226	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	3.70	0.001434	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	2.30	0.000891	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-4.80	-0.001860	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	9.20	0.003566	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-3.30	-0.001279	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-1.00	-0.000388	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	40	-2.10	-0.000814	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	2.40	0.000925	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-0.60	-0.000231	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-10	4.00	0.001541	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-3.00	-0.001156	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-2.20	-0.000848	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-2.80	-0.001079	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-2.90	-0.001118	±2.5	PASS





Band38	20MHz	64QAM	38000	100RB#0	NV	40	-3.20	-0.001233	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-5.20	-0.002004	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-5.10	-0.001954	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-3.30	-0.001264	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-6.80	-0.002605	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	0.80	0.000307	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	2.80	0.001073	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-0.80	-0.000307	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	4.40	0.001686	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-4.10	-0.001571	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-2.70	-0.001034	±2.5	PASS

The End



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