

Appendix B

E-UTRA Band 4



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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT	3
2.	PEAK-TO-AVERAGE RATIO (CCDF)	15
2.1.	TEST RESULT	15
2.2.	TEST PLOTS.....	15
3.	MODULATION CHARACTERISTICS	20
3.1.	TEST MODE = LTE /TM1 20MHZ.....	20
3.1.1.	TEST CHANNEL = MCH.....	20
3.2.	TEST MODE = LTE /TM2 20MHZ.....	21
3.2.1.	TEST CHANNEL = MCH.....	21
3.3.	TEST MODE = LTE /TM3 20MHZ.....	22
3.3.1.	TEST CHANNEL = MCH.....	22
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	23
4.1.	TEST RESULT	23
4.2.	TEST PLOTS.....	25
5.	BAND EDGE COMPLIANCE	52
5.1.	TEST PLOTS.....	52
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	89
6.1.	TEST PLOTS.....	89
7.	FIELD STRENGTH OF SPURIOUS RADIATION	99
7.1.	TEST MODE =LTE/TM1 20MHZ	99
7.1.1.	TEST CHANNEL = LCH	99
7.1.2.	TEST CHANNEL = MCH.....	99
7.1.3.	TEST CHANNEL = HCH.....	100
8.	FREQUENCY STABILITY.....	101
8.1.	FREQUENCY VS VOLTAGE	101
8.2.	FREQUENCY VS TEMPERATURE	102





1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#2	22.37	26.37	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.33	26.33	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	22.30	26.3	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.23	26.23	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.16	26.16	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.23	26.23	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.33	25.33	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.27	27.27	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.31	27.31	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.19	27.19	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.30	27.3	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.27	27.27	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.21	27.21	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.36	26.36	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.26	27.26	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.30	27.3	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.26	27.26	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.34	27.34	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.30	27.3	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.27	27.27	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.39	26.39	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.82	26.82	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.70	26.7	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.62	26.62	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	22.72	26.72	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	22.80	26.8	30	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	22.74	26.74	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	21.69	25.69	30	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / SGS-CSTC Laboratory

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



Band4	1.4MHz	64QAM	20175	1RB#5	22.95	26.95	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.90	26.9	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.82	26.82	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	22.96	26.96	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	22.88	26.88	30	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	22.88	26.88	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.81	25.81	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.71	26.71	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.79	26.79	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.84	26.84	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	22.78	26.78	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	22.83	26.83	30	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	22.83	26.83	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.74	25.74	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.59	25.59	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.61	25.61	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.50	25.5	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.39	25.39	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.43	25.43	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.36	25.36	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.48	24.48	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.49	26.49	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.50	26.5	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.46	26.46	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.36	26.36	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.37	26.37	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.39	26.39	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.41	25.41	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.46	26.46	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.53	26.53	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.52	26.52	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.38	26.38	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.45	26.45	30	PASS





Band4	1.4MHz	16QAM	20393	3RB#3	22.46	26.46	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.44	25.44	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.53	26.53	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.27	26.27	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.66	26.66	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.64	25.64	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.36	25.36	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.57	25.57	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.52	25.52	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.39	27.39	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.19	27.19	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.26	27.26	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.43	26.43	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.34	26.34	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.36	26.36	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.39	26.39	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.43	27.43	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.28	27.28	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.31	27.31	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.40	26.4	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.45	26.45	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.40	26.4	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.45	26.45	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.69	26.69	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.82	26.82	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.68	26.68	30	PASS
Band4	3MHz	64QAM	19965	8RB#0	21.75	25.75	30	PASS
Band4	3MHz	64QAM	19965	8RB#4	21.80	25.8	30	PASS
Band4	3MHz	64QAM	19965	8RB#7	21.80	25.8	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.81	25.81	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.82	26.82	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.86	26.86	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	23.12	27.12	30	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / 实验室

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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



Band4	3MHz	64QAM	20175	8RB#0	21.81	25.81	30	PASS
Band4	3MHz	64QAM	20175	8RB#7	21.82	25.82	30	PASS
Band4	3MHz	64QAM	20175	8RB#4	21.91	25.91	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.80	25.8	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	22.82	26.82	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.86	26.86	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.85	26.85	30	PASS
Band4	3MHz	64QAM	20385	8RB#7	21.77	25.77	30	PASS
Band4	3MHz	64QAM	20385	8RB#0	21.76	25.76	30	PASS
Band4	3MHz	64QAM	20385	8RB#4	21.83	25.83	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.85	25.85	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.52	25.52	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.75	25.75	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.89	25.89	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.73	24.73	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.48	24.48	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.65	24.65	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.57	24.57	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.44	26.44	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.56	26.56	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.42	26.42	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.44	25.44	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.36	25.36	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.35	25.35	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.33	25.33	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.52	26.52	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.75	26.75	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.50	26.5	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.45	25.45	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.47	25.47	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.49	25.49	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.41	25.41	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.63	26.63	30	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

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



Band4	5MHz	QPSK	19975	1RB#0	22.24	26.24	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.16	27.16	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.99	25.99	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.71	25.71	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.39	25.39	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.69	25.69	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.30	27.3	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.20	27.2	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.33	27.33	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.35	26.35	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.32	26.32	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.36	26.36	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.32	26.32	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.24	27.24	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.33	27.33	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.37	27.37	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.40	26.4	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.41	26.41	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.31	26.31	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.43	26.43	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.88	26.88	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.71	26.71	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.82	26.82	30	PASS
Band4	5MHz	64QAM	19975	12RB#0	21.78	25.78	30	PASS
Band4	5MHz	64QAM	19975	12RB#13	21.76	25.76	30	PASS
Band4	5MHz	64QAM	19975	12RB#6	21.84	25.84	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.77	25.77	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.92	26.92	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.97	26.97	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.75	26.75	30	PASS
Band4	5MHz	64QAM	20175	12RB#0	21.88	25.88	30	PASS
Band4	5MHz	64QAM	20175	12RB#6	21.88	25.88	30	PASS
Band4	5MHz	64QAM	20175	12RB#13	21.84	25.84	30	PASS





Band4	5MHz	64QAM	20175	25RB#0	21.81	25.81	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.84	26.84	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.83	26.83	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.69	26.69	30	PASS
Band4	5MHz	64QAM	20375	12RB#13	21.76	25.76	30	PASS
Band4	5MHz	64QAM	20375	12RB#6	21.87	25.87	30	PASS
Band4	5MHz	64QAM	20375	12RB#0	21.82	25.82	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.83	25.83	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.42	26.42	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.79	25.79	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.43	25.43	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.50	24.5	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.78	24.78	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.03	25.03	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.76	24.76	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.46	26.46	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.53	26.53	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.48	26.48	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.37	25.37	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.37	25.37	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.38	25.38	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.30	25.3	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.40	26.4	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.60	26.6	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.52	26.52	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.41	25.41	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.49	25.49	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.41	25.41	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.41	25.41	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.39	26.39	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.05	27.05	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.27	27.27	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.94	25.94	30	PASS





Band4	10MHz	QPSK	20000	25RB#12	22.38	26.38	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.31	26.31	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.33	26.33	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.27	27.27	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.17	27.17	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.25	27.25	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.41	26.41	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.40	26.4	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.41	26.41	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.38	26.38	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.36	27.36	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.26	27.26	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.34	27.34	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.44	26.44	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.49	26.49	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.41	26.41	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.39	26.39	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.81	26.81	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.87	26.87	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.75	26.75	30	PASS
Band4	10MHz	64QAM	20000	25RB#12	21.81	25.81	30	PASS
Band4	10MHz	64QAM	20000	25RB#0	21.89	25.89	30	PASS
Band4	10MHz	64QAM	20000	25RB#25	21.79	25.79	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.84	25.84	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.89	26.89	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.96	26.96	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.79	26.79	30	PASS
Band4	10MHz	64QAM	20175	25RB#0	21.82	25.82	30	PASS
Band4	10MHz	64QAM	20175	25RB#12	21.89	25.89	30	PASS
Band4	10MHz	64QAM	20175	25RB#25	21.86	25.86	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.87	25.87	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.73	26.73	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.71	26.71	30	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. 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
Shenzhen Branch 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



Band4	10MHz	64QAM	20350	1RB#0	22.75	26.75	30	PASS
Band4	10MHz	64QAM	20350	25RB#25	21.77	25.77	30	PASS
Band4	10MHz	64QAM	20350	25RB#0	21.84	25.84	30	PASS
Band4	10MHz	64QAM	20350	25RB#12	21.88	25.88	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.84	25.84	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.36	26.36	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.59	25.59	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.35	26.35	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.27	25.27	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.96	24.96	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.33	25.33	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.28	25.28	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.43	26.43	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.45	26.45	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.50	26.5	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.35	25.35	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.40	25.4	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.32	25.32	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.33	25.33	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.48	26.48	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.64	26.64	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.51	26.51	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.44	25.44	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.41	25.41	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.37	25.37	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.39	25.39	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.26	27.26	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.35	27.35	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.46	27.46	30	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.46	26.46	30	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.50	26.5	30	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.45	26.45	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.46	26.46	30	PASS



Band4	15MHz	QPSK	20175	1RB#74	23.55	27.55	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.39	27.39	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.36	27.36	30	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.46	26.46	30	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.52	26.52	30	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.55	26.55	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.53	26.53	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.42	27.42	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.41	27.41	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.44	27.44	30	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.54	26.54	30	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.54	26.54	30	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.55	26.55	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.55	26.55	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	23.03	27.03	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.98	26.98	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.87	26.87	30	PASS
Band4	15MHz	64QAM	20025	36RB#0	21.82	25.82	30	PASS
Band4	15MHz	64QAM	20025	36RB#18	21.94	25.94	30	PASS
Band4	15MHz	64QAM	20025	36RB#39	21.94	25.94	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.90	25.9	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.97	26.97	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	23.11	27.11	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	23.17	27.17	30	PASS
Band4	15MHz	64QAM	20175	36RB#0	21.94	25.94	30	PASS
Band4	15MHz	64QAM	20175	36RB#18	21.97	25.97	30	PASS
Band4	15MHz	64QAM	20175	36RB#39	22.02	26.02	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.96	25.96	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.98	26.98	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.99	26.99	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	23.05	27.05	30	PASS
Band4	15MHz	64QAM	20325	36RB#0	21.93	25.93	30	PASS
Band4	15MHz	64QAM	20325	36RB#18	21.96	25.96	30	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / 实验室
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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



Band4	15MHz	64QAM	20325	36RB#39	21.92	25.92	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.95	25.95	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.58	26.58	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.68	26.68	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.61	26.61	30	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.47	25.47	30	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.50	25.5	30	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.45	25.45	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.50	25.5	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.74	26.74	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.83	26.83	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.52	26.52	30	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.44	25.44	30	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.55	25.55	30	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.58	25.58	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.54	25.54	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.69	26.69	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.64	26.64	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.79	26.79	30	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.54	25.54	30	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.53	25.53	30	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.55	25.55	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.55	25.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.34	27.34	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.43	27.43	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.32	27.32	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.49	26.49	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.51	26.51	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.56	26.56	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.50	26.5	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.55	27.55	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.38	27.38	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.42	27.42	30	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (SGS-CSTC) Laboratory
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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



Band4	20MHz	QPSK	20175	50RB#25	22.55	26.55	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.48	26.48	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.59	26.59	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.51	26.51	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.43	27.43	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.37	27.37	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.49	27.49	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.58	26.58	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.60	26.6	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.47	26.47	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.58	26.58	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.73	26.73	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.90	26.9	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	23.01	27.01	30	PASS
Band4	20MHz	64QAM	20050	50RB#0	21.95	25.95	30	PASS
Band4	20MHz	64QAM	20050	50RB#25	21.93	25.93	30	PASS
Band4	20MHz	64QAM	20050	50RB#50	21.98	25.98	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.94	25.94	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	23.12	27.12	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.89	26.89	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.98	26.98	30	PASS
Band4	20MHz	64QAM	20175	50RB#25	22.00	26	30	PASS
Band4	20MHz	64QAM	20175	50RB#50	22.01	26.01	30	PASS
Band4	20MHz	64QAM	20175	50RB#0	21.94	25.94	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.99	25.99	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	23.06	27.06	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.91	26.91	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	23.08	27.08	30	PASS
Band4	20MHz	64QAM	20300	50RB#50	22.03	26.03	30	PASS
Band4	20MHz	64QAM	20300	50RB#0	21.94	25.94	30	PASS
Band4	20MHz	64QAM	20300	50RB#25	21.99	25.99	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.97	25.97	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.70	26.7	30	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / 深圳分公司 / 实验室

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



Band4	20MHz	16QAM	20050	1RB#0	22.60	26.6	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.62	26.62	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.44	25.44	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.47	25.47	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.48	25.48	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.51	25.51	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.83	26.83	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.74	26.74	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.62	26.62	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.56	25.56	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.47	25.47	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.56	25.56	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.51	25.51	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.82	26.82	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.71	26.71	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.78	26.78	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.55	25.55	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.57	25.57	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.53	25.53	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.54	25.54	30	PASS

Remark:

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

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

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



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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (2020) Shenzhen Laboratory

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

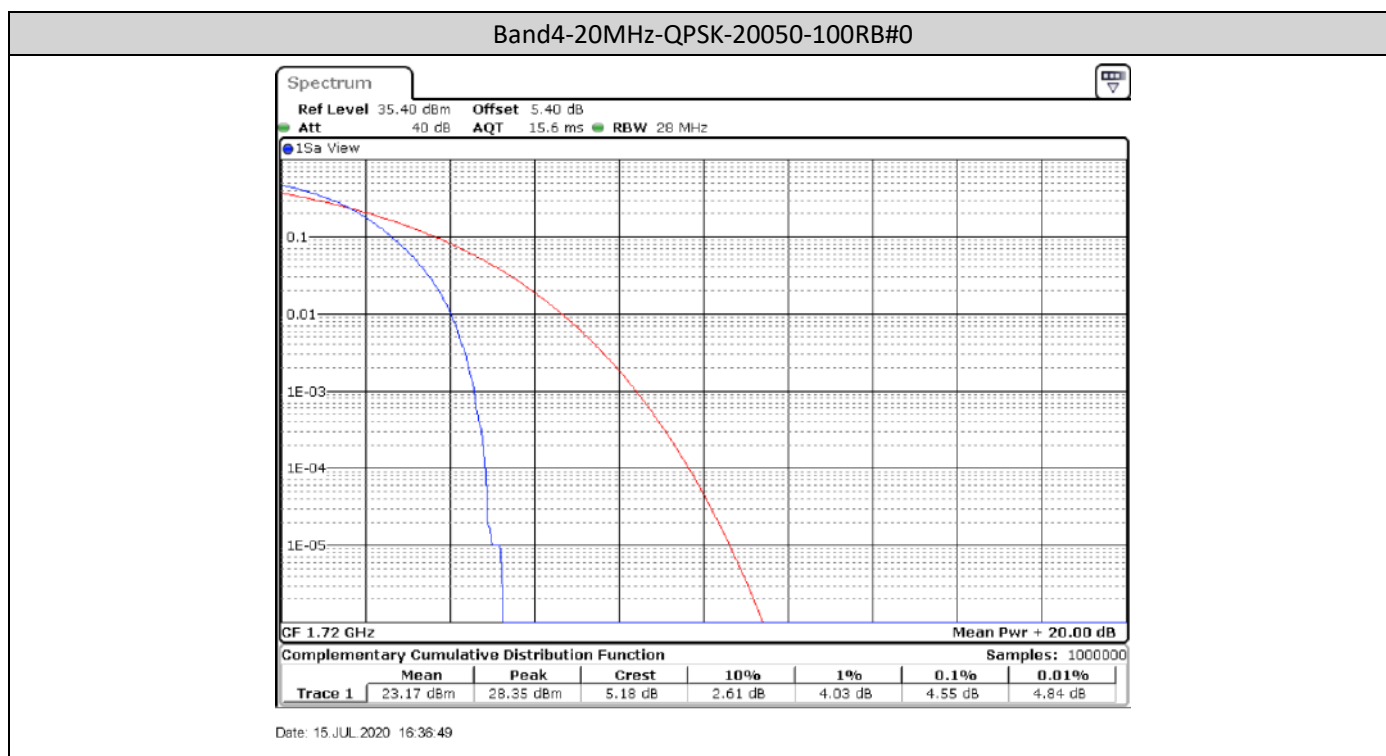


2. Peak-to-Average Ratio (CCDF)

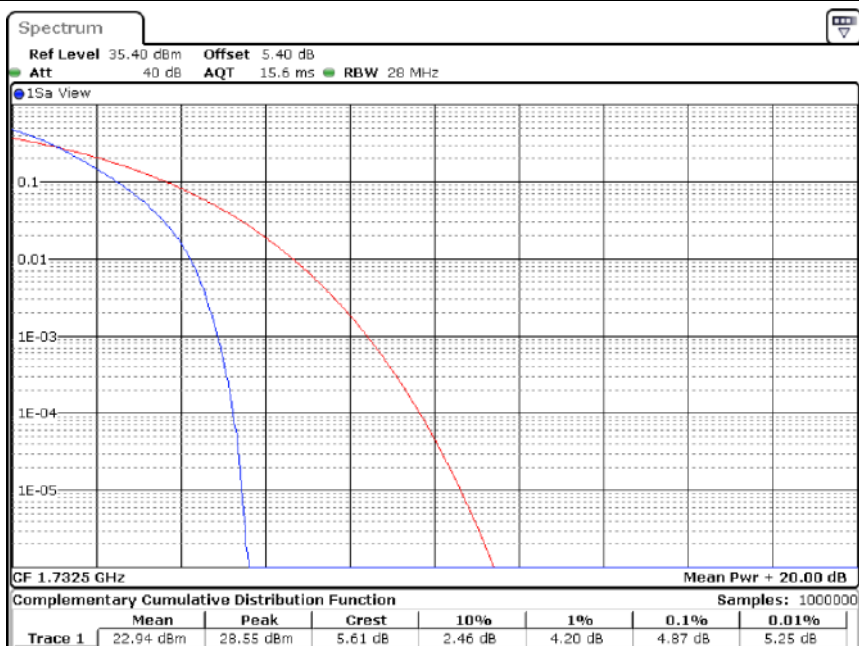
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.55	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.87	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.67	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.29	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.41	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.46	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.62	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.68	13	PASS

2.2. Test Plots

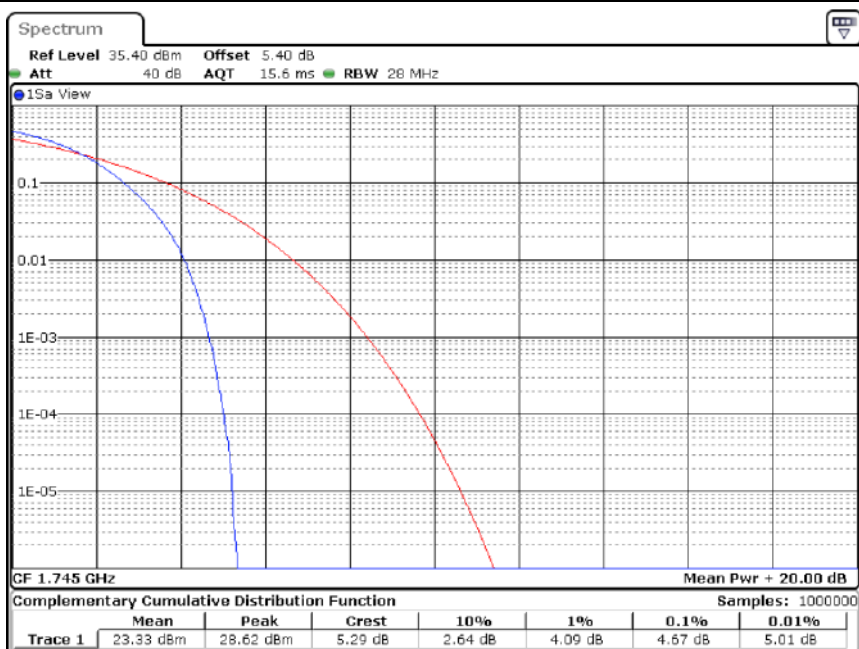


Band4-20MHz-QPSK-20175-100RB#0



Date: 15 JUL 2020 16:37:11

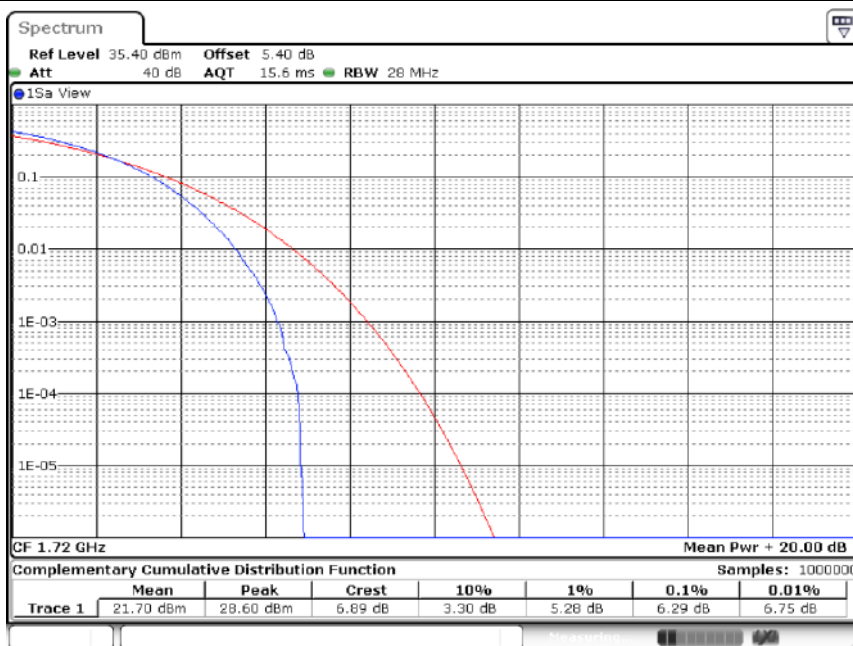
Band4-20MHz-QPSK-20300-100RB#0



Date: 15 JUL 2020 16:37:34

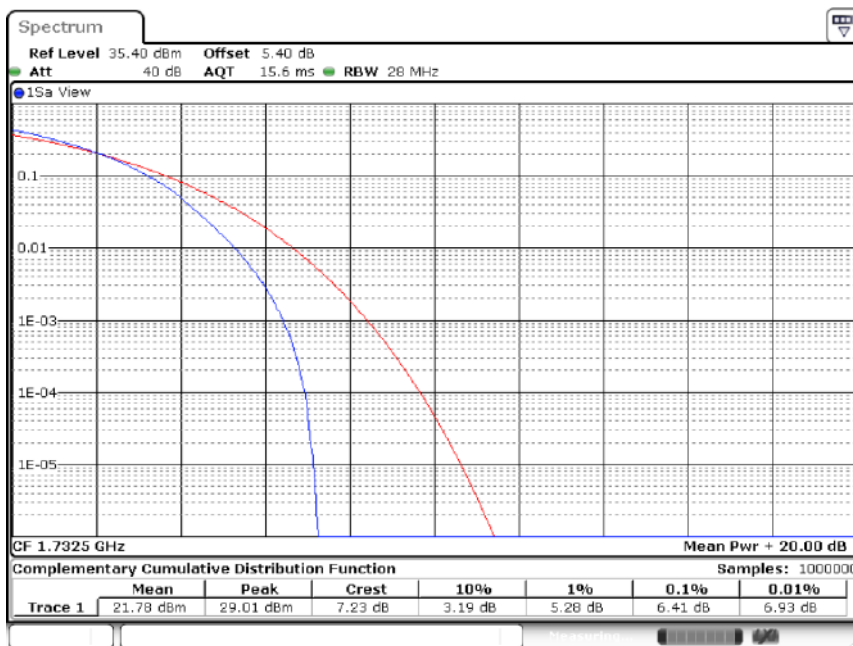


Band4-20MHz-64QAM-20050-100RB#0



Date: 10.AUG.2020 23:43:50

Band4-20MHz-64QAM-20175-100RB#0



Date: 10.AUG.2020 23:44:02



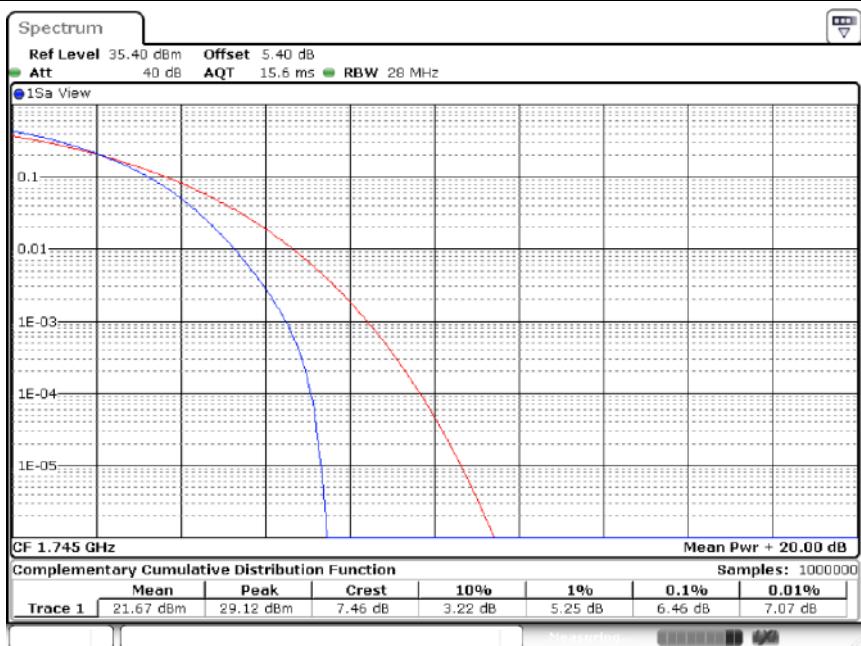
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

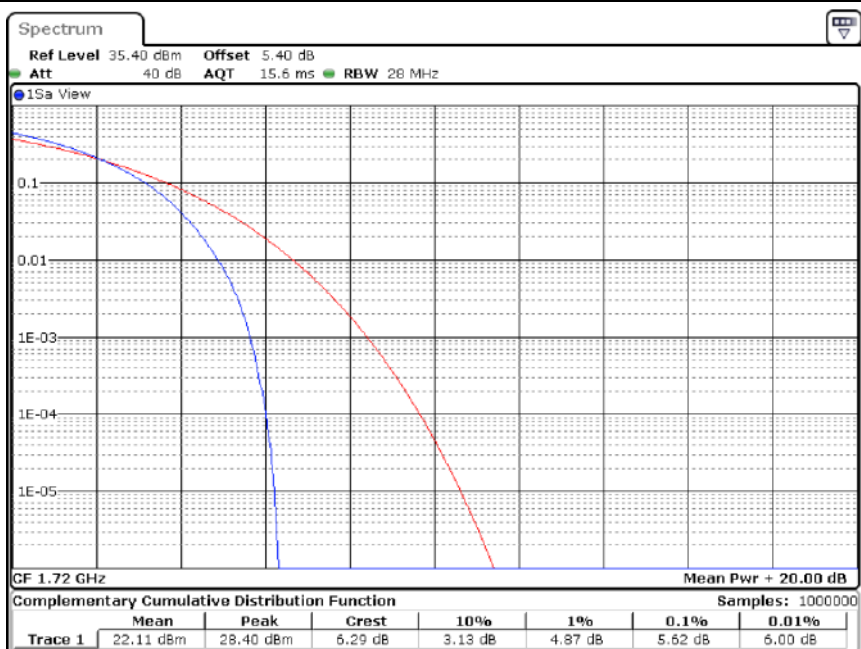
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-64QAM-20300-100RB#0



Date: 10.AUG.2020 23:44:13

Band4-20MHz-16QAM-20050-100RB#0



Date: 15.JUL.2020 16:37:00



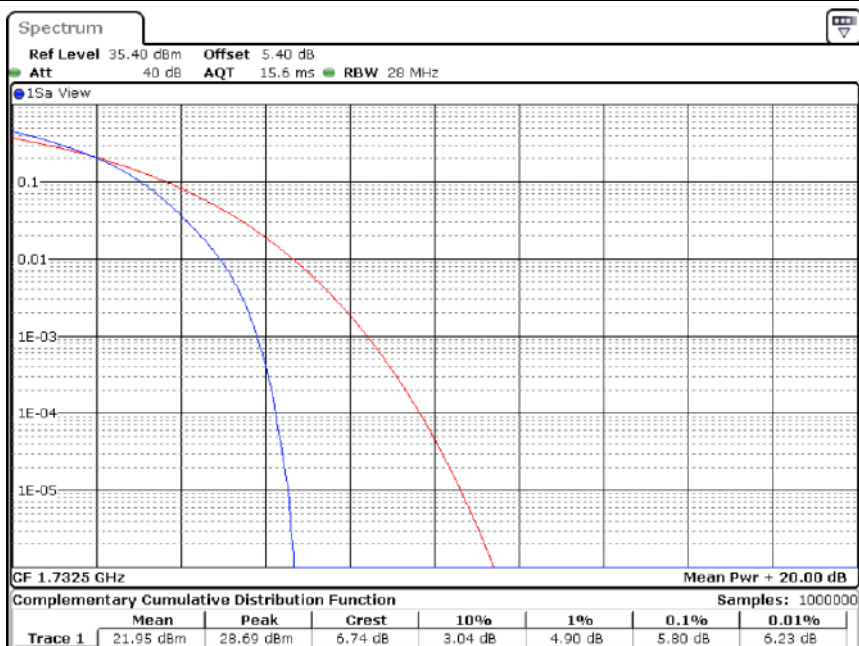
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

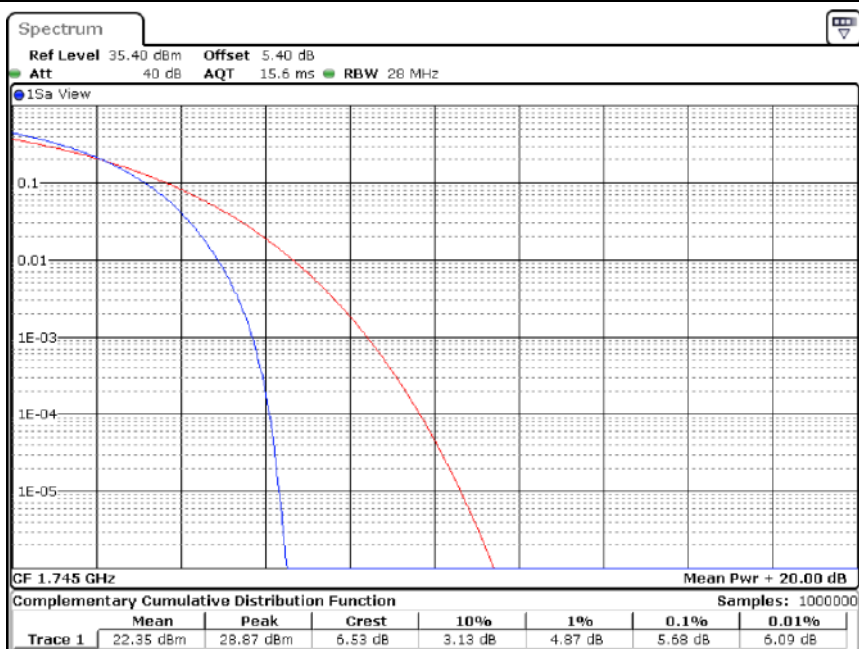
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-16QAM-20175-100RB#0



Date: 15 JUL 2020 16:37:23

Band4-20MHz-16QAM-20300-100RB#0



Date: 15 JUL 2020 16:37:45

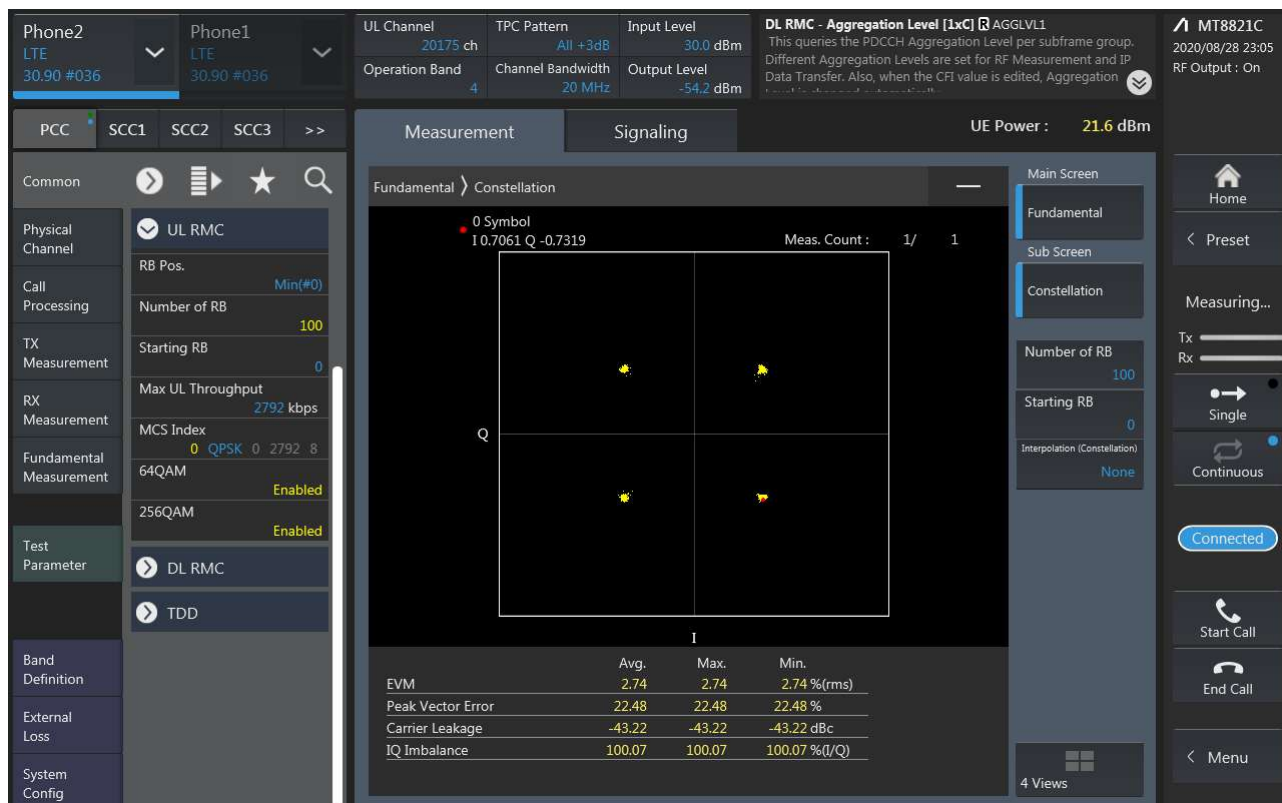




3. Modulation Characteristics

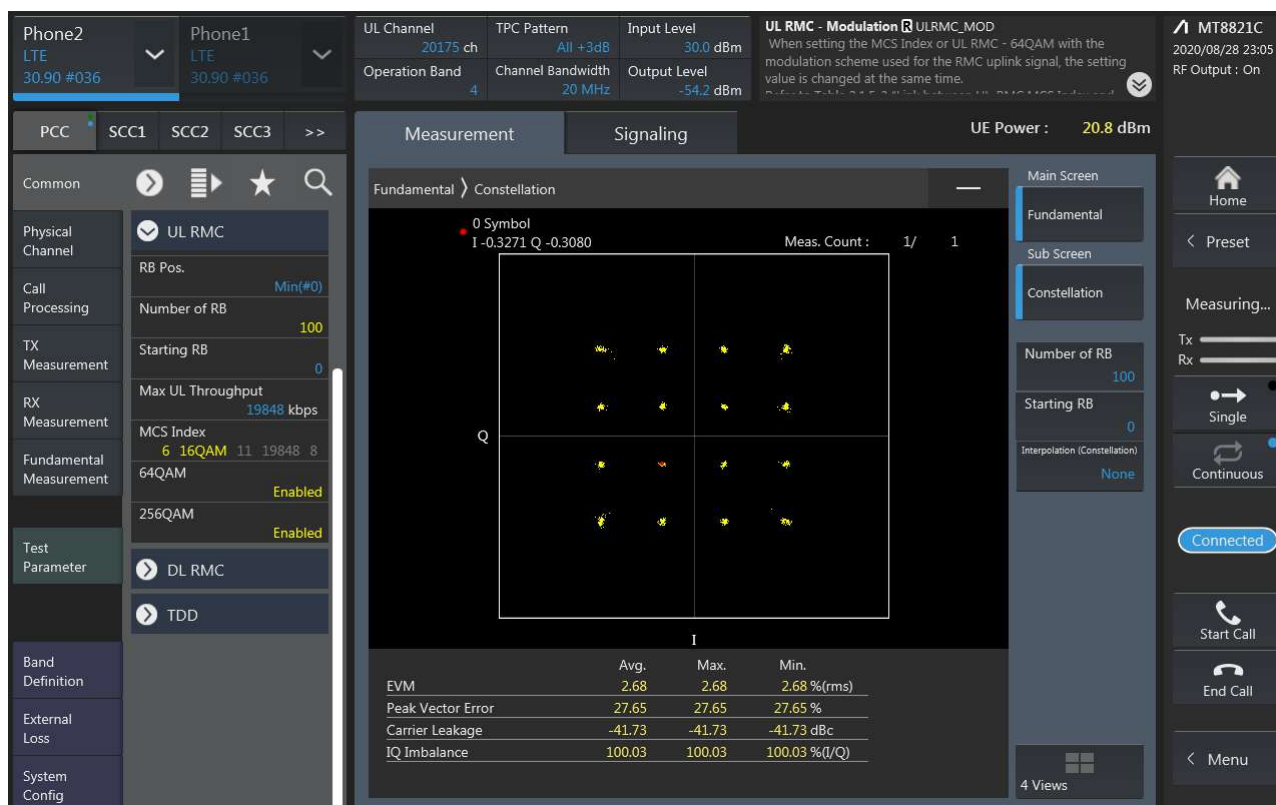
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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

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

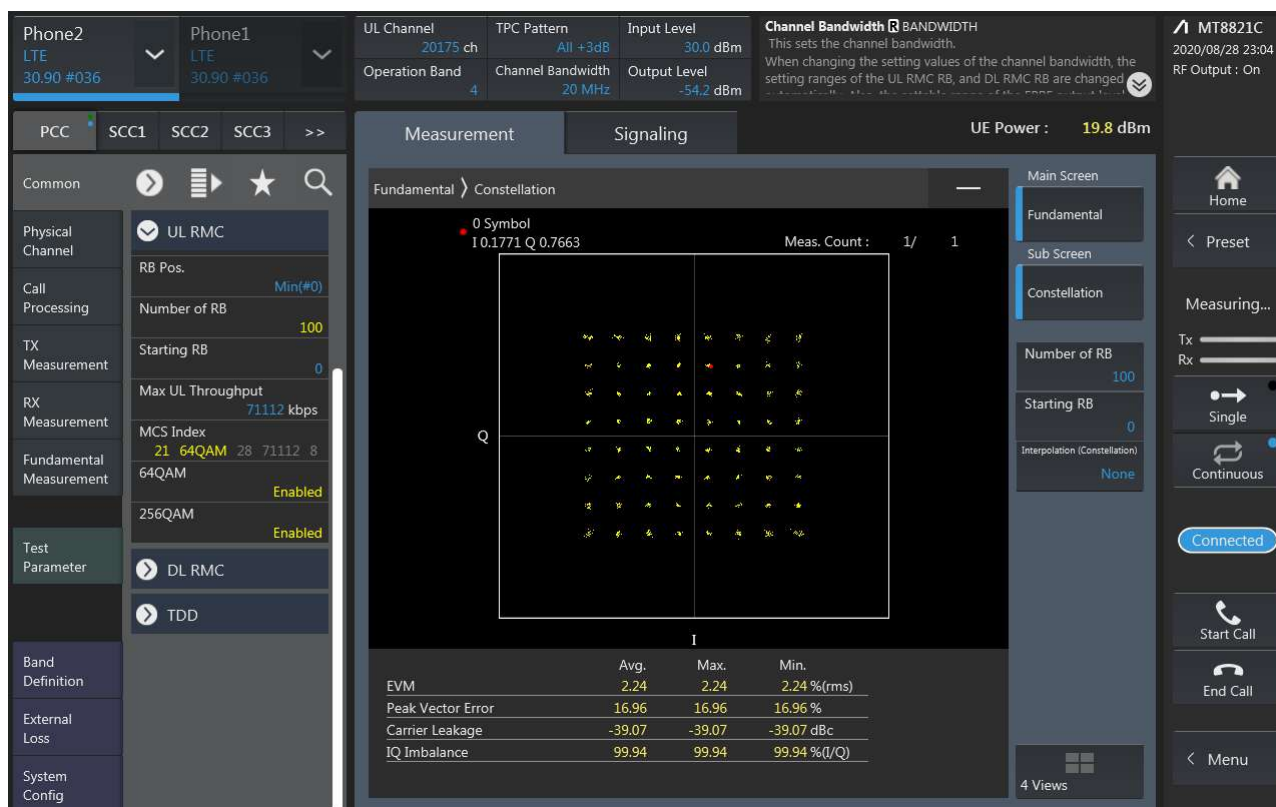
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Shenzhen Jintan) Testing Laboratory

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



3.3. 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
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.245	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.248	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.242	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.239	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.088	1.227	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.242	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.242	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.082	1.230	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.242	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.018	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	3.006	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.703	3.030	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.697	3.006	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.988	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.691	3.000	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.691	2.970	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.976	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.982	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.900	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.880	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.890	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.900	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.900	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.466	4.880	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.930	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.496	4.930	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.930	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.700	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.700	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.700	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.640	PASS



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

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



Band4	10MHz	64QAM	20175	50RB#0	8.931	9.600	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.640	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.951	9.700	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.931	9.720	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.931	9.660	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.700	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.516	14.700	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.640	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.457	14.700	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.457	14.790	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.790	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.487	14.730	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.670	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.670	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.440	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.440	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.440	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.902	19.400	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.902	19.480	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.902	19.400	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.400	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.902	19.520	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.400	PASS

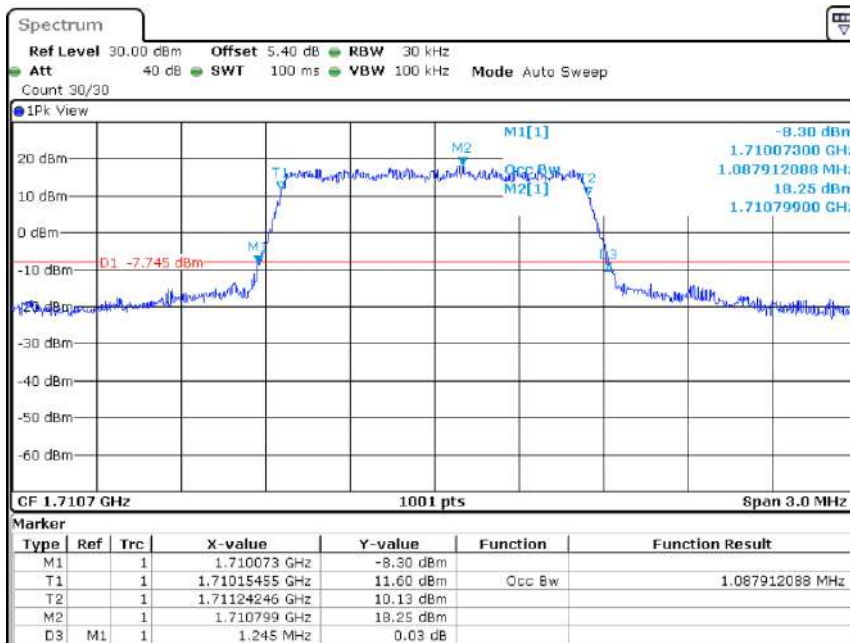


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

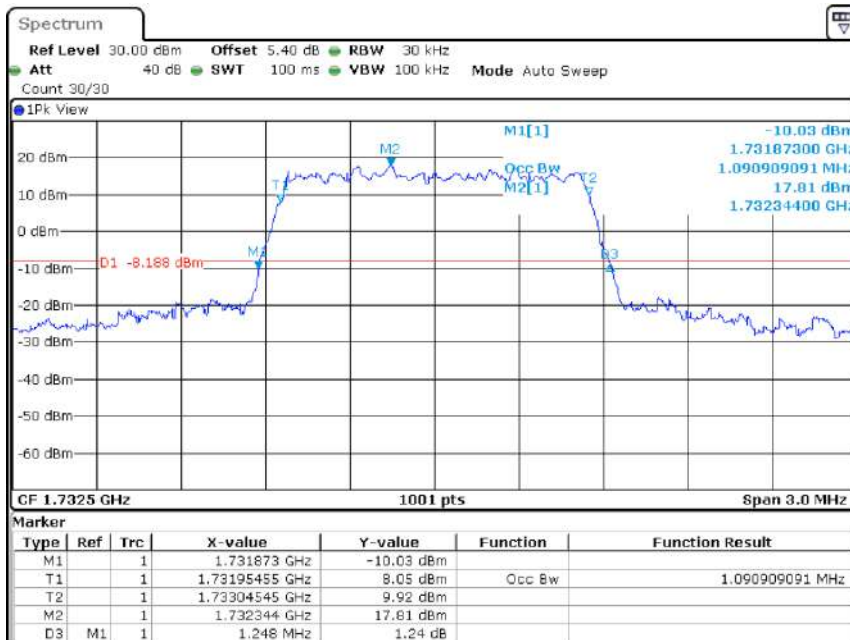
4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Date: 15 JUL 2020 16:02:52

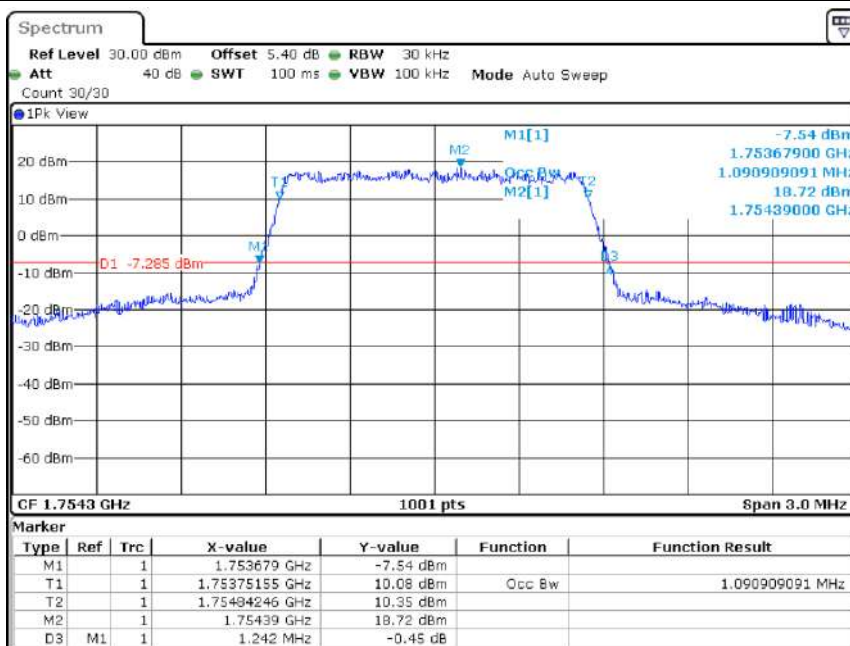
Band4-1.4MHz-QPSK-20175-6RB#0-1.091



Date: 15 JUL 2020 16:03:18

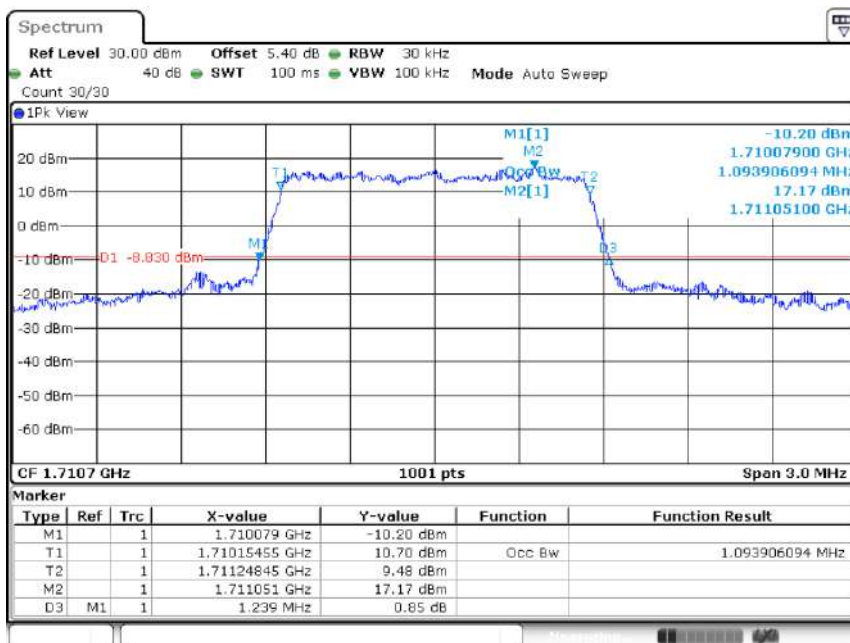


Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 15 JUL 2020 16:03:44

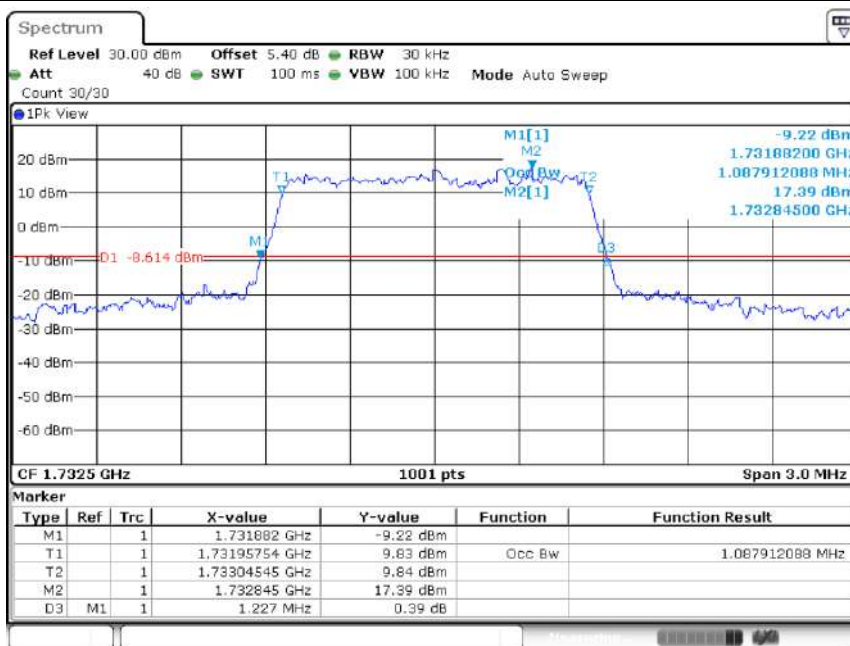
Band4-1.4MHz-64QAM-19957-6RB#0-1.094



Date: 10 AUG 2020 23:27:40

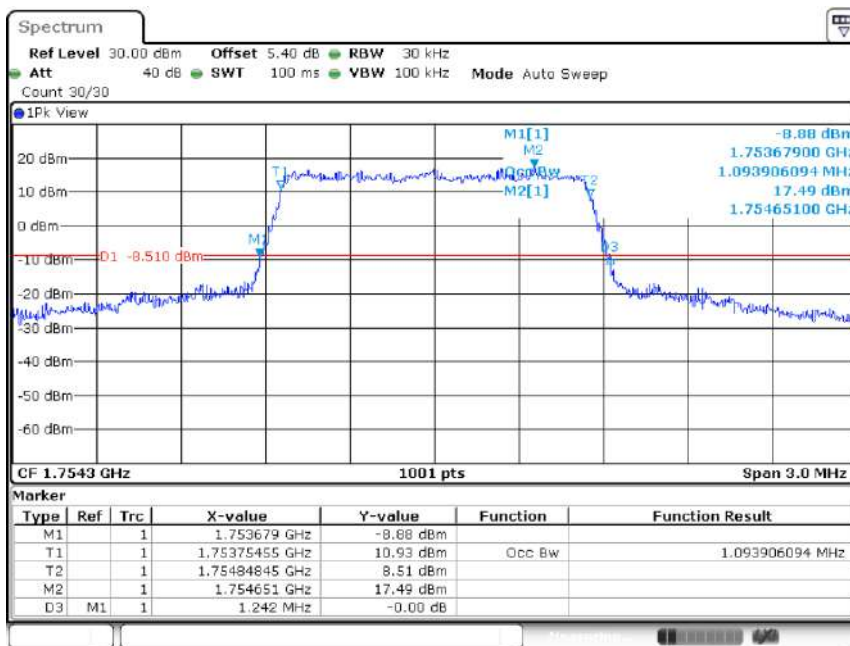


Band4-1.4MHz-64QAM-20175-6RB#0-1.088



Date: 10.AUG 2020 23:27:53

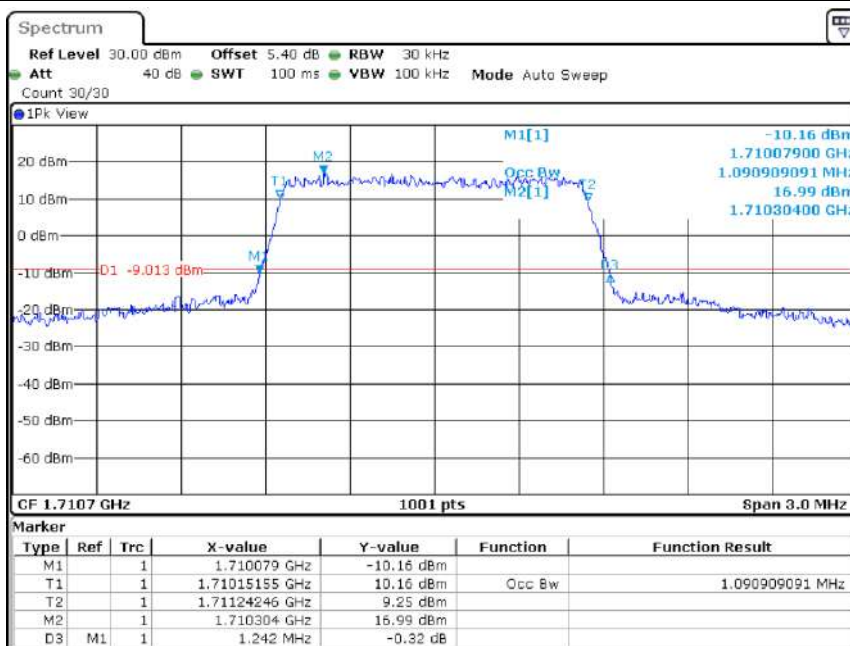
Band4-1.4MHz-64QAM-20393-6RB#0-1.094



Date: 10.AUG 2020 23:28:06

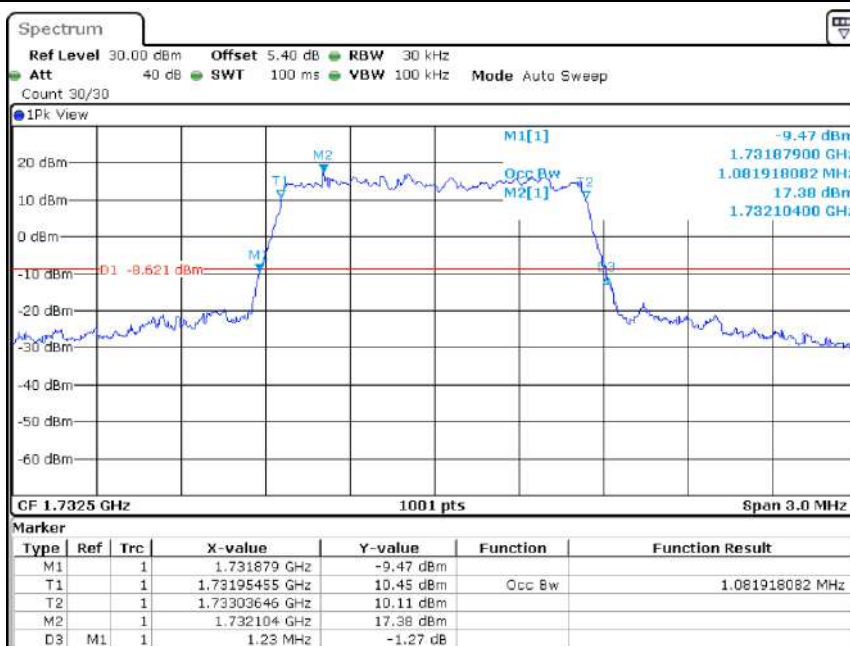


Band4-1.4MHz-16QAM-19957-6RB#0-1.091



Date: 15 JUL 2020 16:03:05

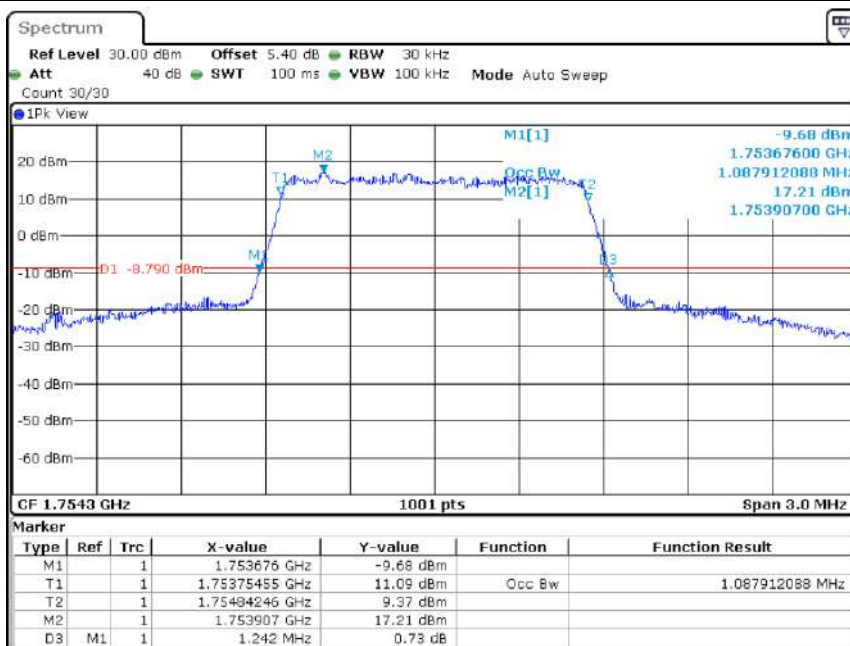
Band4-1.4MHz-16QAM-20175-6RB#0-1.082



Date: 15 JUL 2020 16:03:31

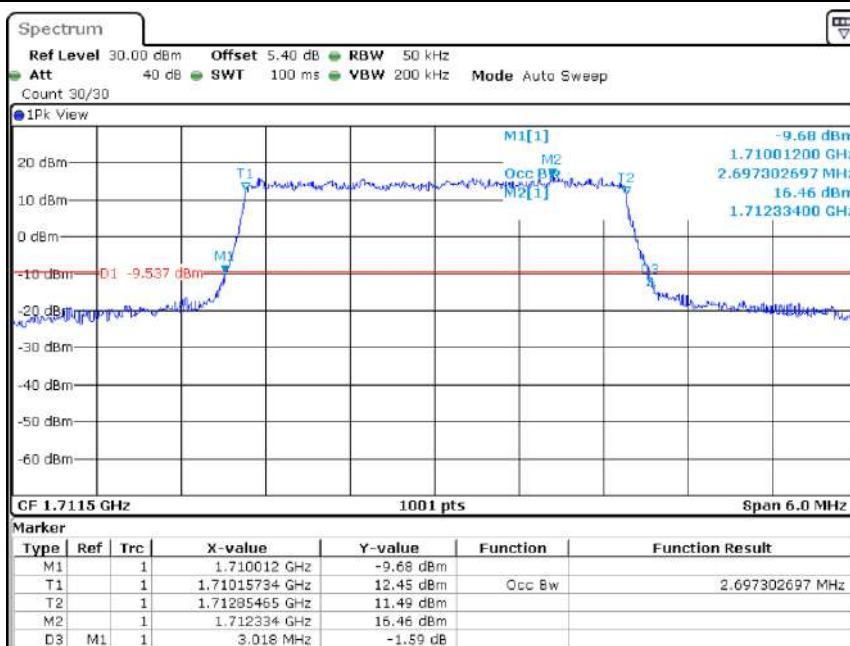


Band4-1.4MHz-16QAM-20393-6RB#0-1.088



Date: 15 JUL 2020 16:03:56

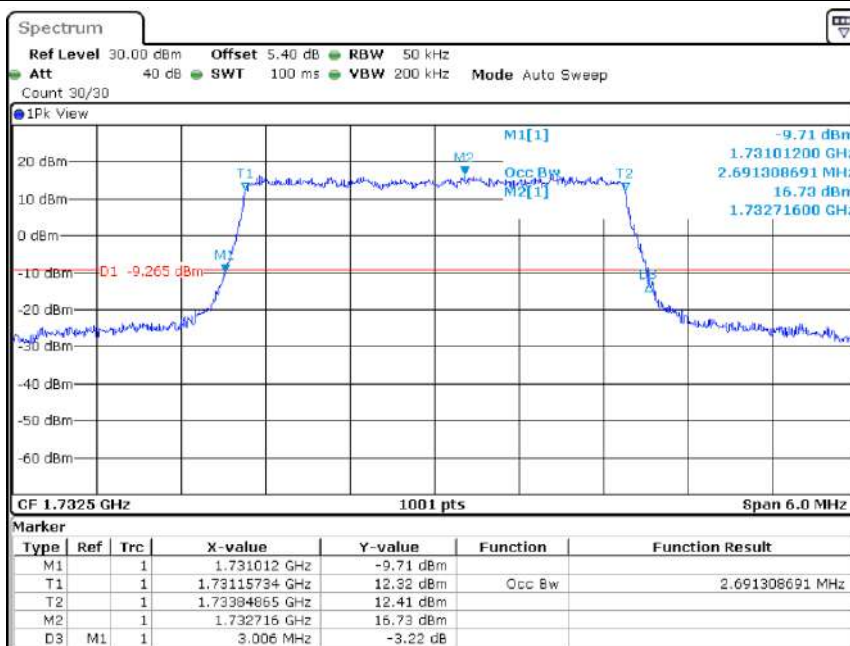
Band4-3MHz-QPSK-19965-15RB#0-2.697



Date: 15 JUL 2020 16:04:14

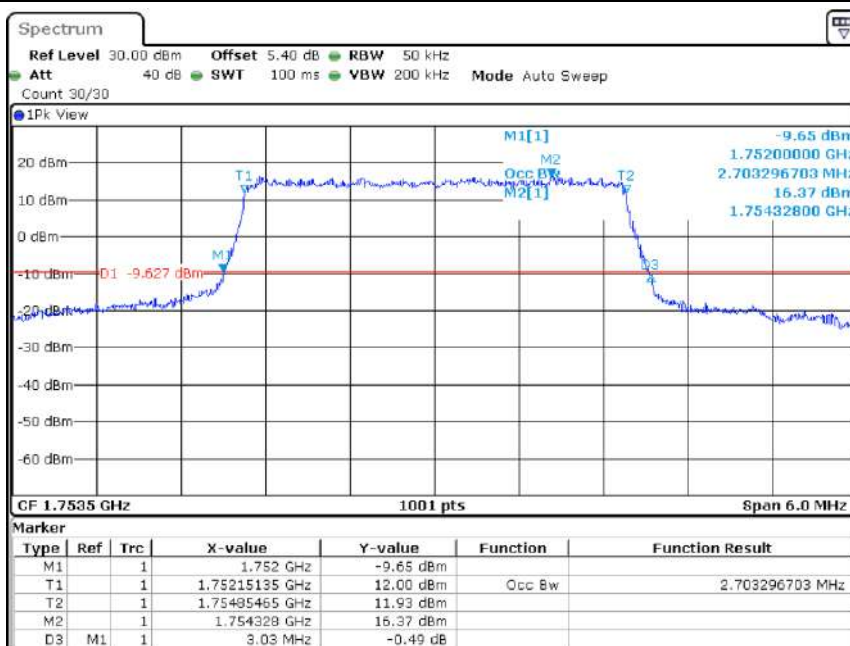


Band4-3MHz-QPSK-20175-15RB#0-2.691



Date: 15 JUL 2020 16:04:40

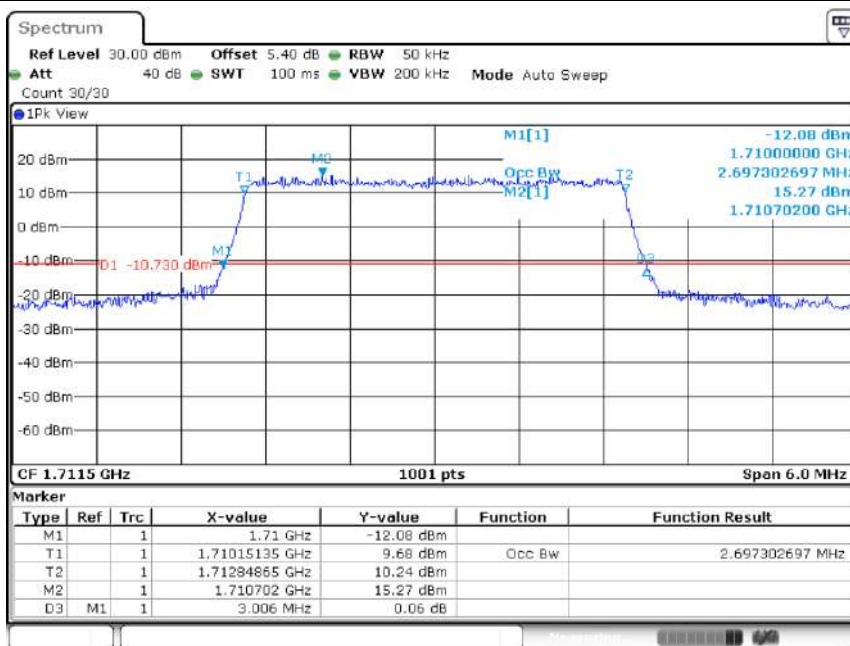
Band4-3MHz-QPSK-20385-15RB#0-2.703



Date: 15 JUL 2020 16:05:05

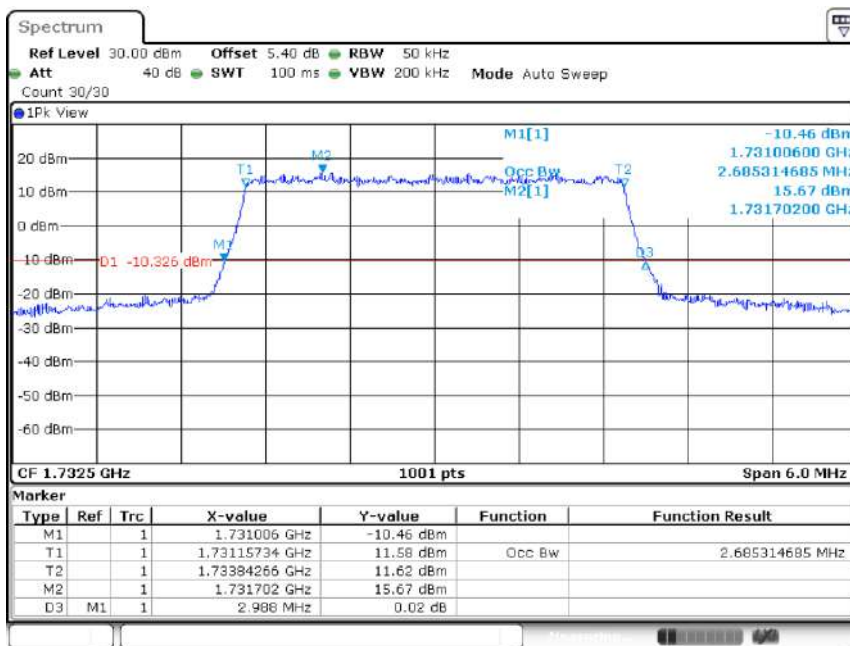


Band4-3MHz-64QAM-19965-15RB#0-2.697



Date: 10.AUG 2020 23:28:26

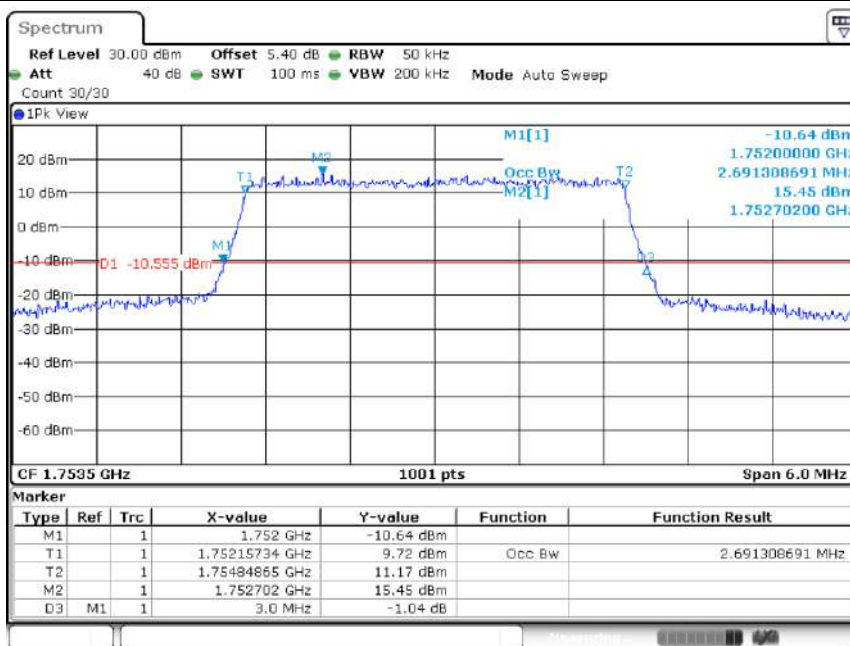
Band4-3MHz-64QAM-20175-15RB#0-2.685



Date: 10.AUG 2020 23:28:39

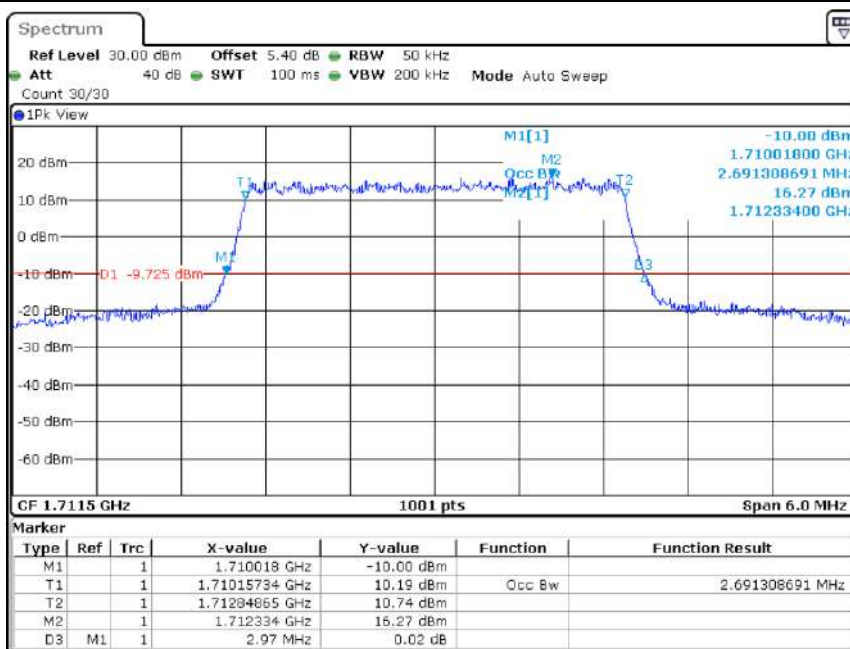


Band4-3MHz-64QAM-20385-15RB#0-2.691



Date: 10.AUG 2020 23:28:52

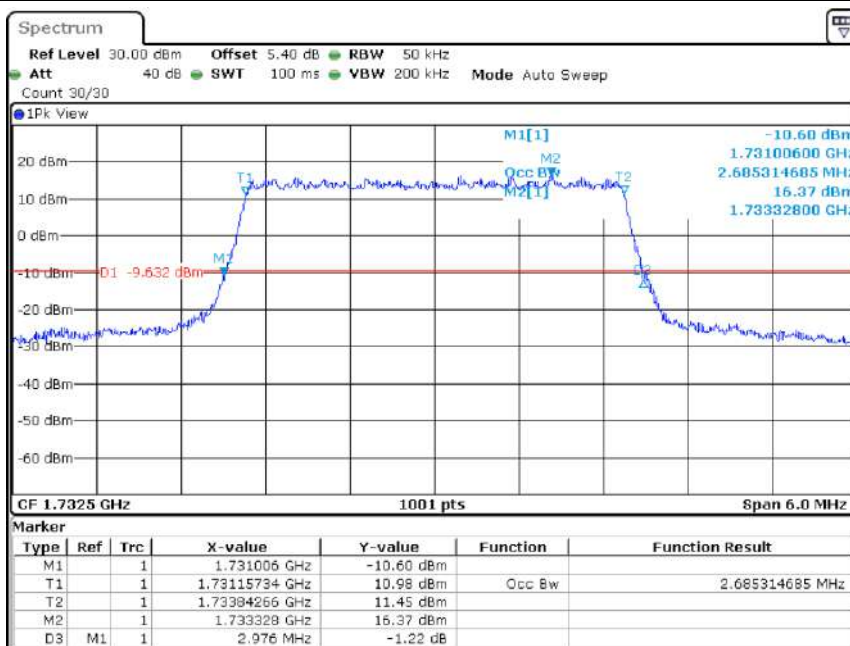
Band4-3MHz-16QAM-19965-15RB#0-2.691



Date: 15.JUL 2020 16:04:27

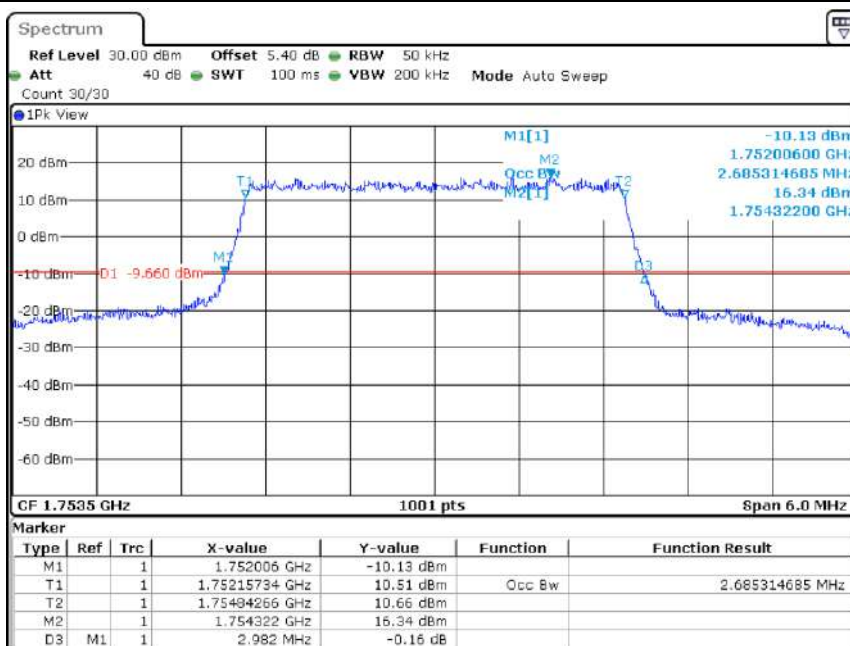


Band4-3MHz-16QAM-20175-15RB#0-2.685



Date: 15 JUL 2020 16:04:53

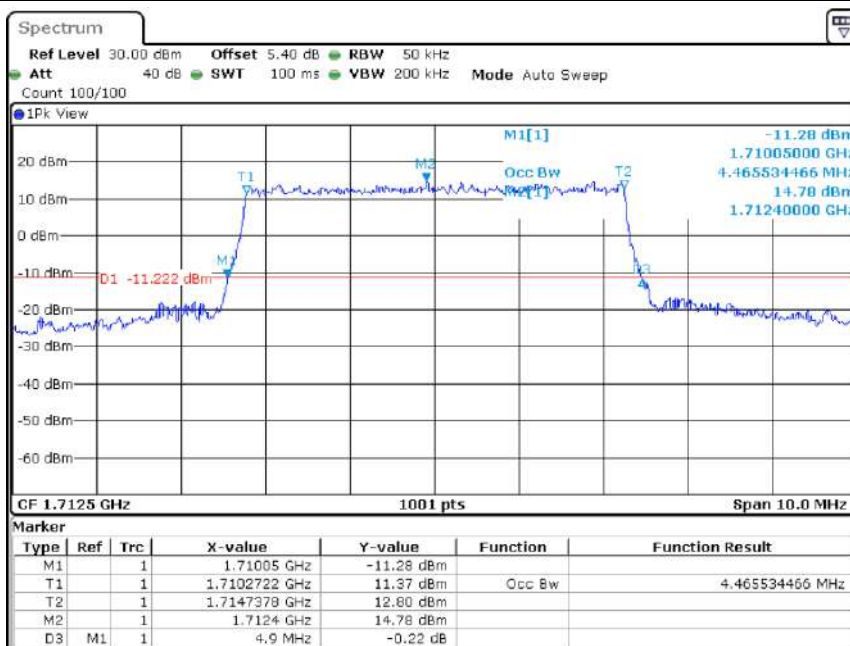
Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 15 JUL 2020 16:05:18

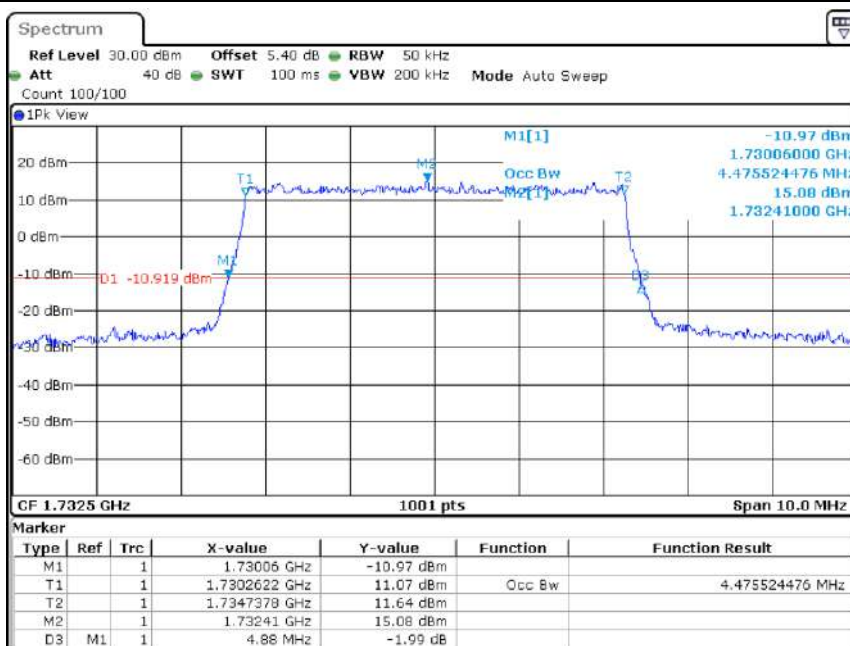


Band4-5MHz-QPSK-19975-25RB#0-4.466



Date: 15 JUL 2020 16:05:43

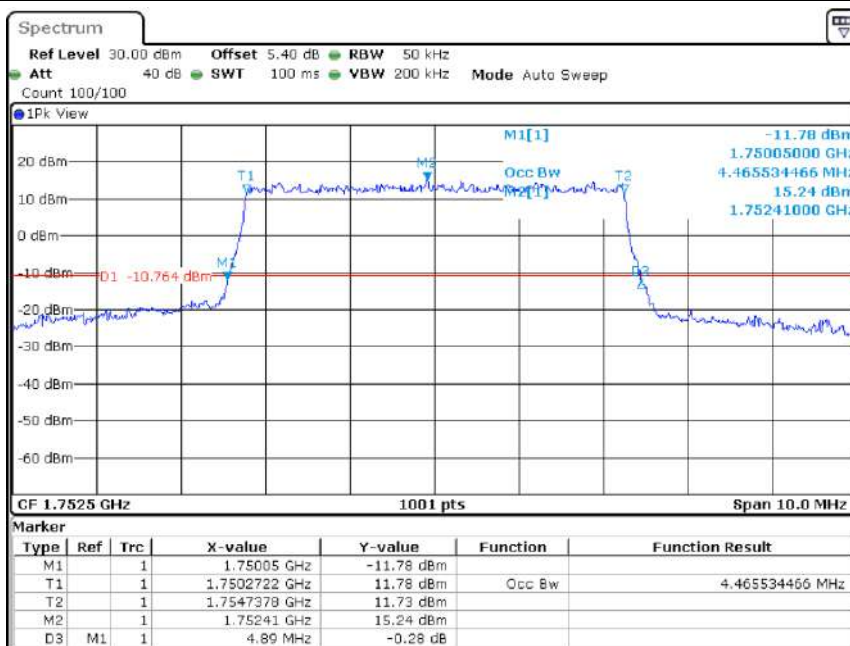
Band4-5MHz-QPSK-20175-25RB#0-4.476



Date: 15 JUL 2020 16:06:22

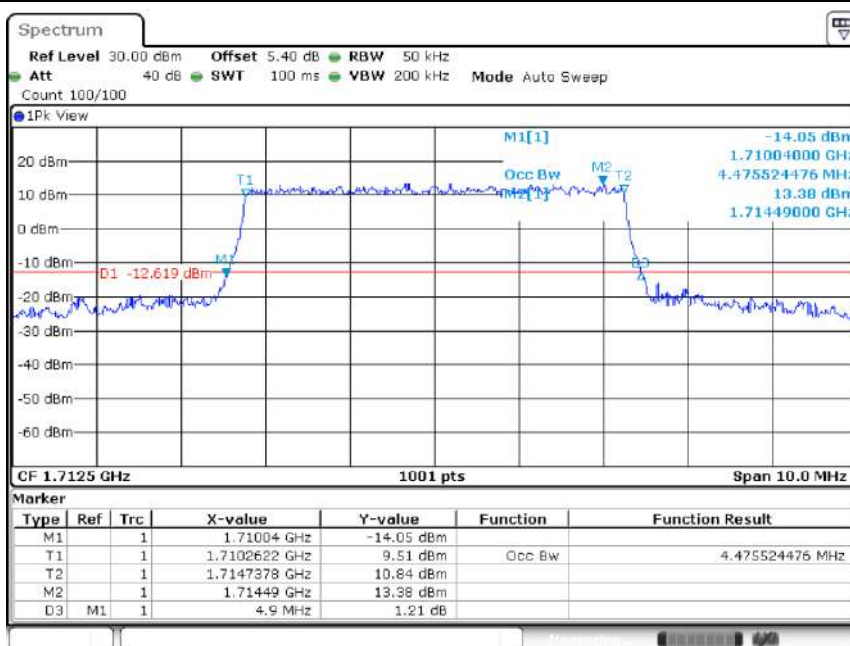


Band4-5MHz-QPSK-20375-25RB#0-4.466



Date: 15 JUL 2020 16:07:02

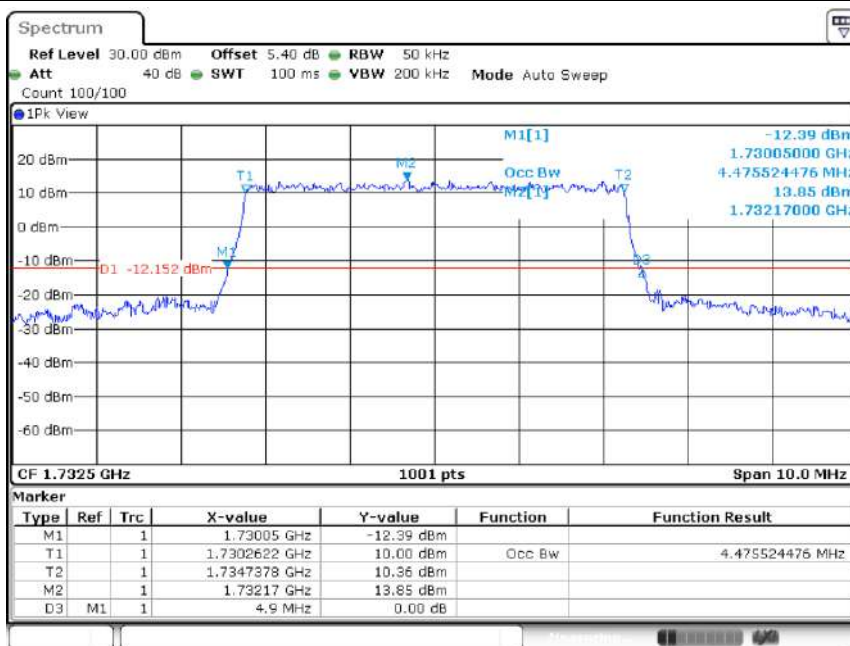
Band4-5MHz-64QAM-19975-25RB#0-4.476



Date: 10 AUG 2020 23:29:18

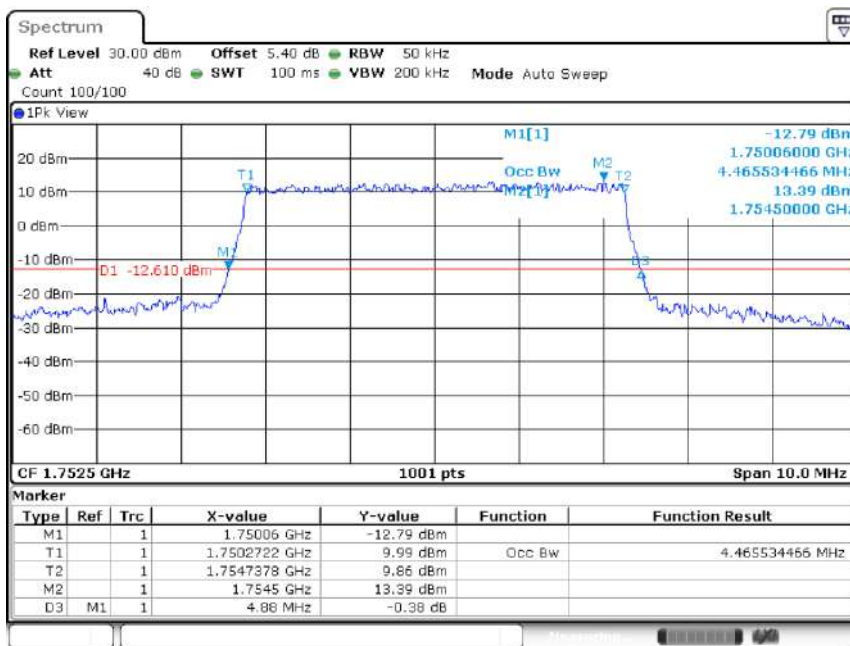


Band4-5MHz-64QAM-20175-25RB#0-4.476



Date: 10.AUG 2020 23:29:38

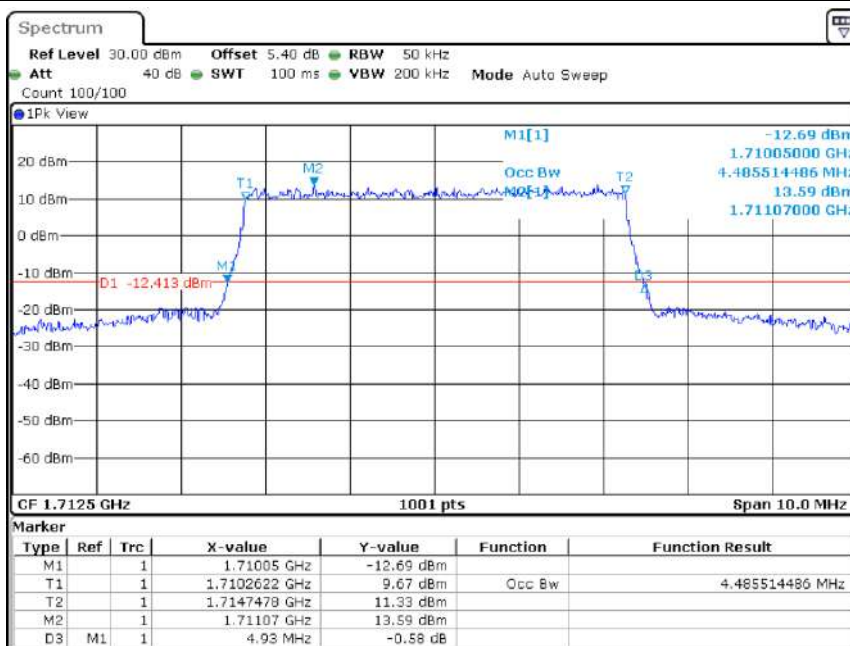
Band4-5MHz-64QAM-20375-25RB#0-4.466



Date: 10.AUG 2020 23:29:58

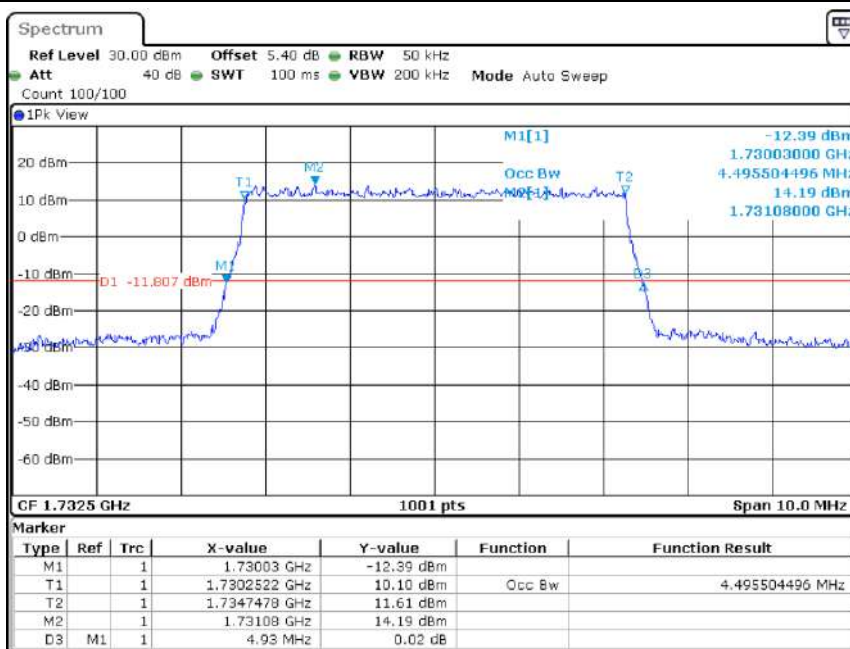


Band4-5MHz-16QAM-19975-25RB#0-4.486



Date: 15 JUL 2020 16:06:02

Band4-5MHz-16QAM-20175-25RB#0-4.496



Date: 15 JUL 2020 16:06:42



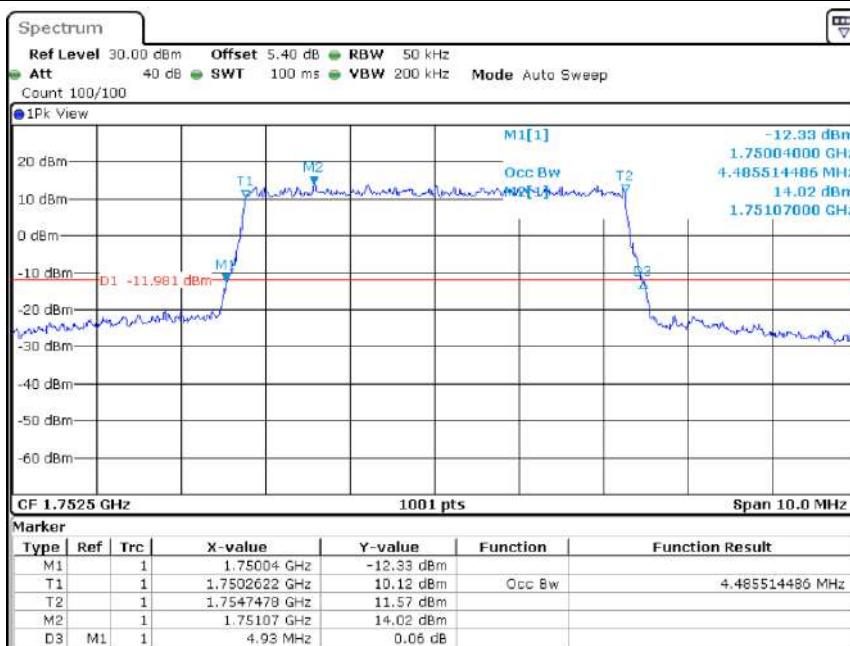
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

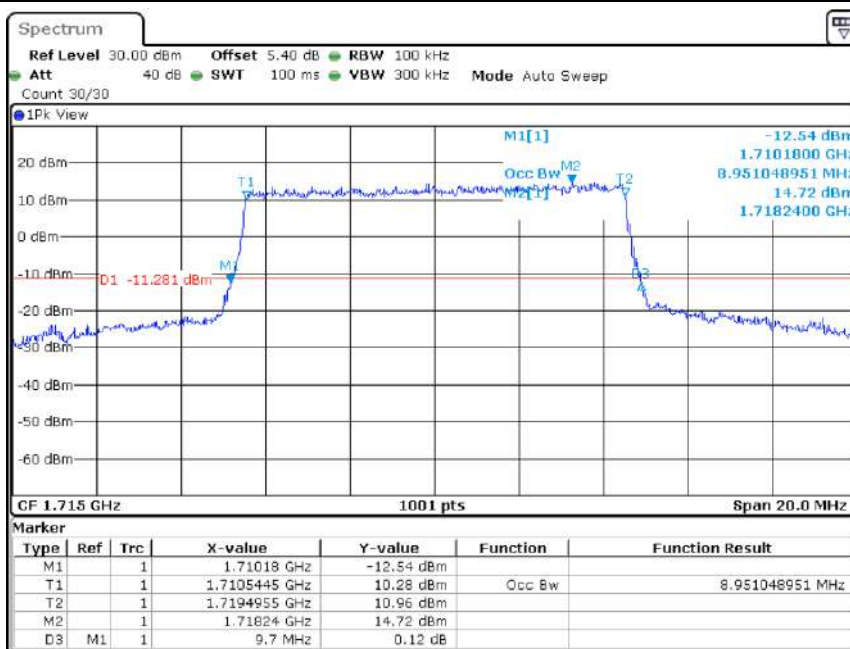
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-5MHz-16QAM-20375-25RB#0-4.486



Date: 15 JUL 2020 16:07:22

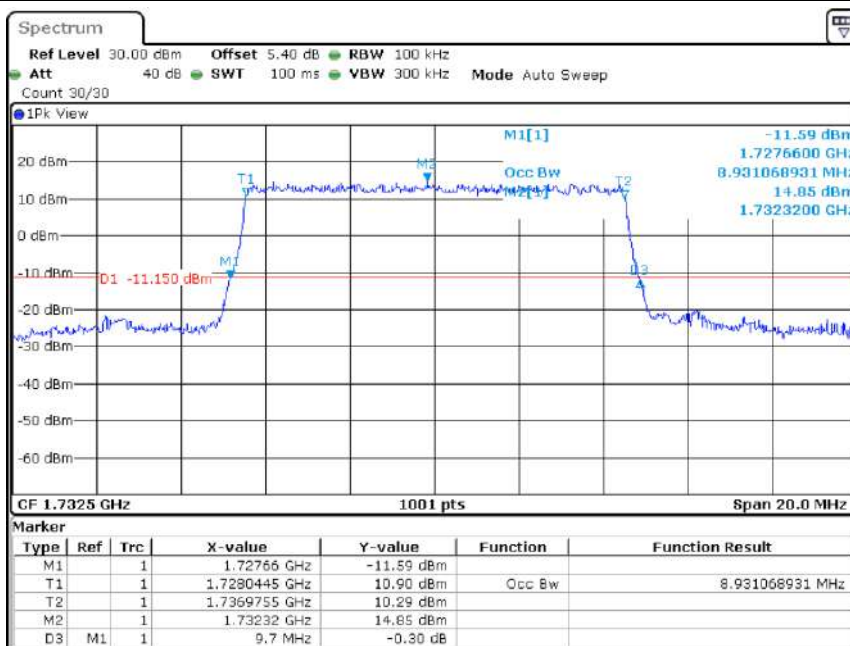
Band4-10MHz-QPSK-20000-50RB#0-8.951



Date: 15 JUL 2020 16:07:40

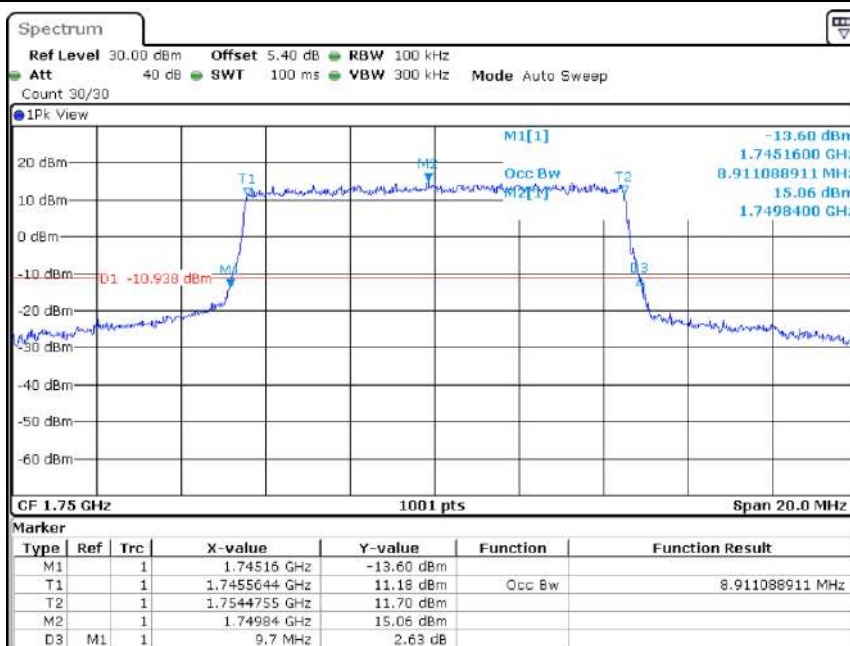


Band4-10MHz-QPSK-20175-50RB#0-8.931



Date: 15 JUL 2020 16:08:05

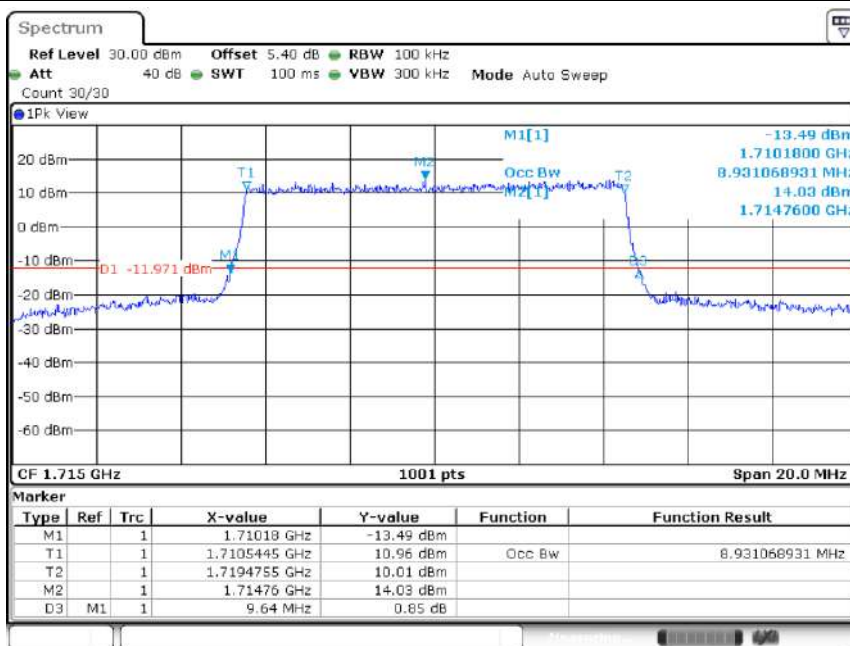
Band4-10MHz-QPSK-20350-50RB#0-8.911



Date: 15 JUL 2020 16:08:31

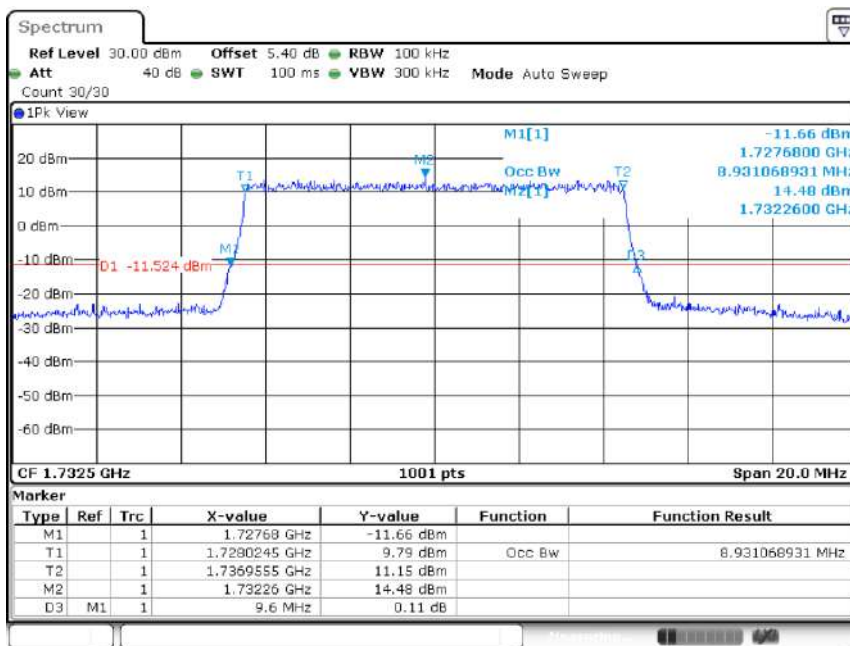


Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 10.AUG 2020 23:30:18

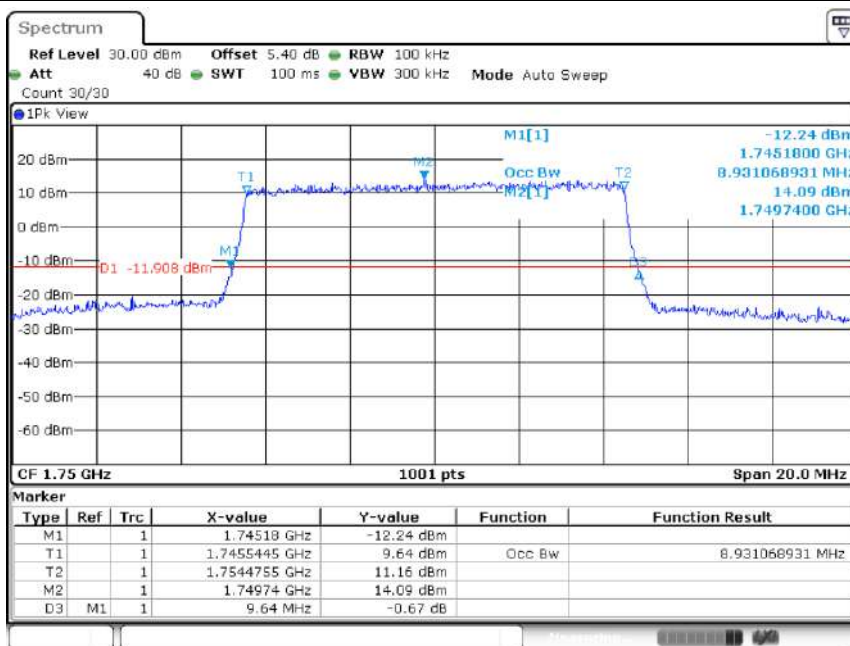
Band4-10MHz-64QAM-20175-50RB#0-8.931



Date: 10.AUG 2020 23:30:31

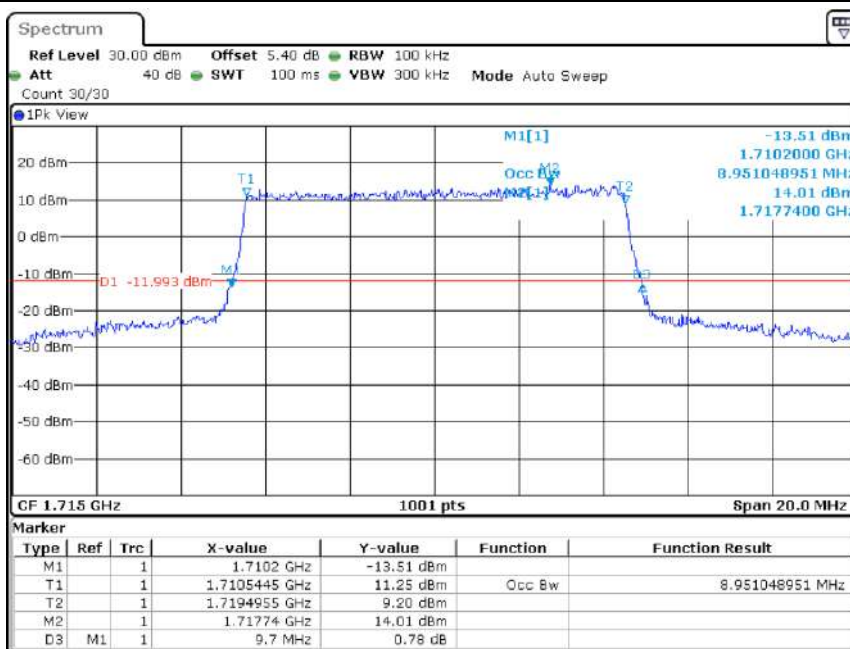


Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 10.AUG 2020 23:30:44

Band4-10MHz-16QAM-20000-50RB#0-8.951



Date: 15.JUL 2020 16:07:52



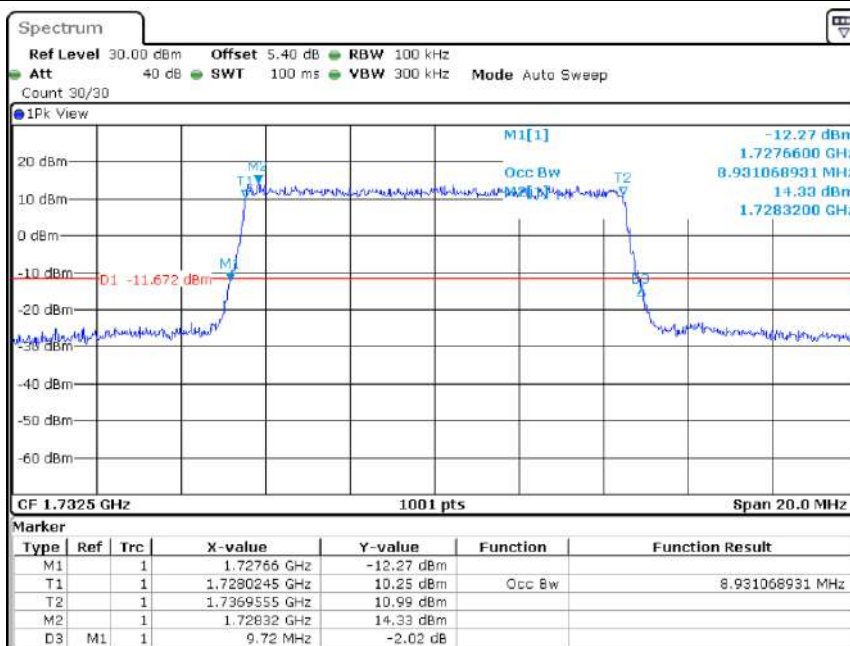
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

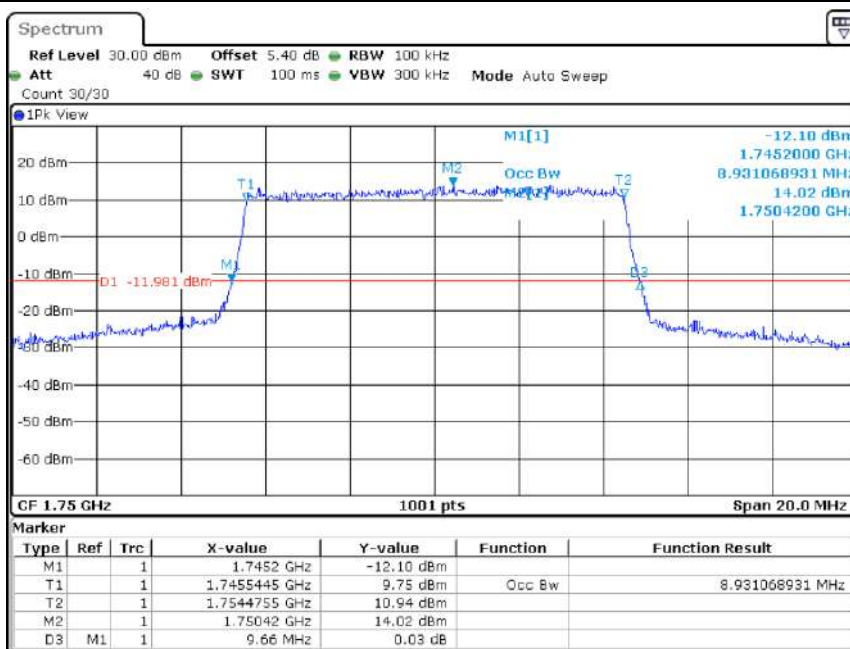
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-10MHz-16QAM-20175-50RB#0-8.931



Date: 15 JUL 2020 16:08:18

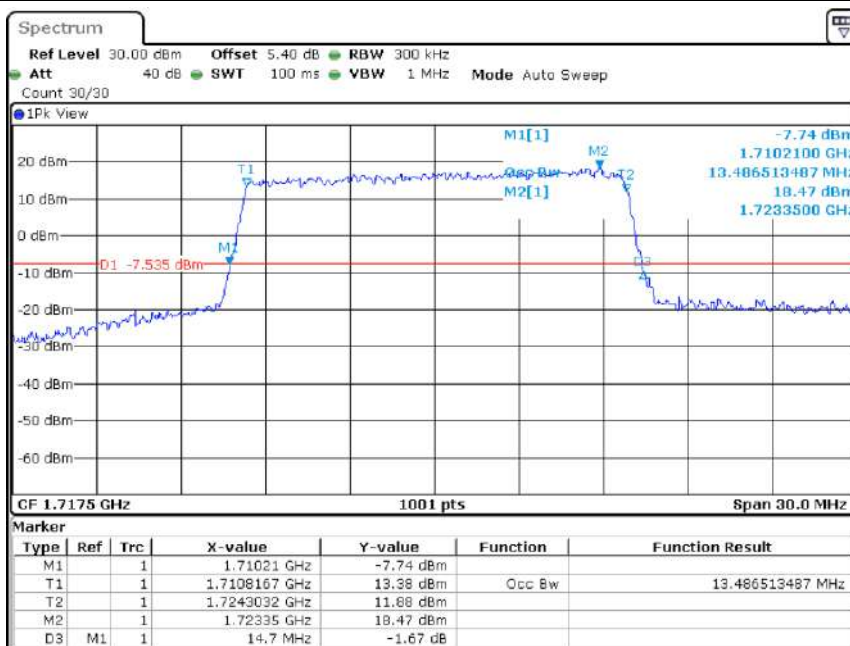
Band4-10MHz-16QAM-20350-50RB#0-8.931



Date: 15 JUL 2020 16:08:43

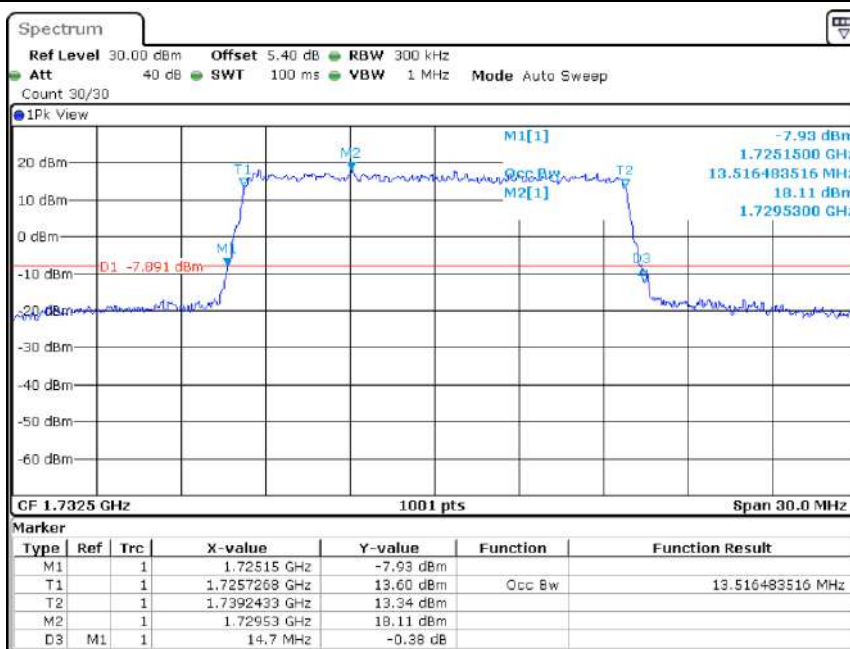


Band4-15MHz-QPSK-20025-75RB#0-13.487



Date: 15 JUL 2020 16:09:01

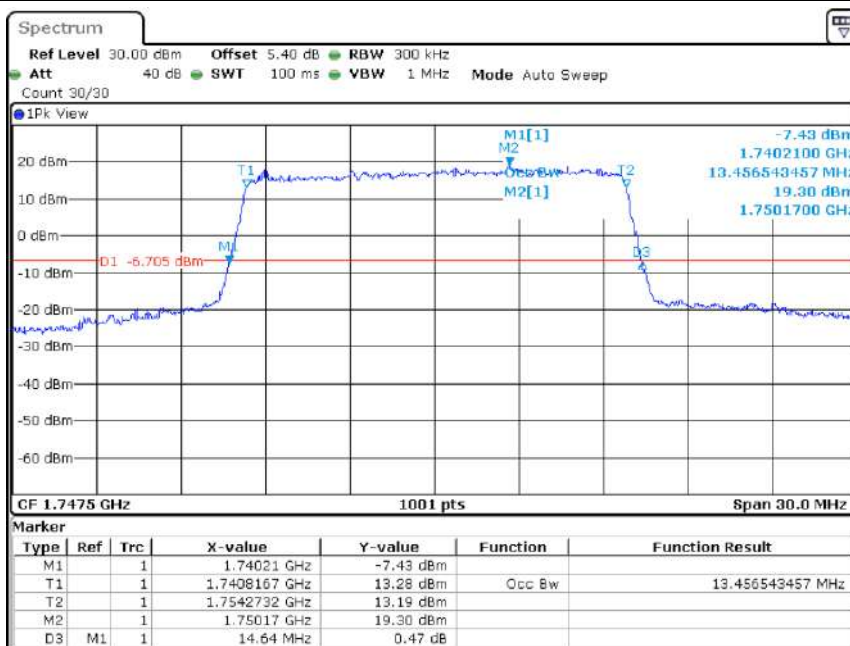
Band4-15MHz-QPSK-20175-75RB#0-13.516



Date: 15 JUL 2020 16:09:27

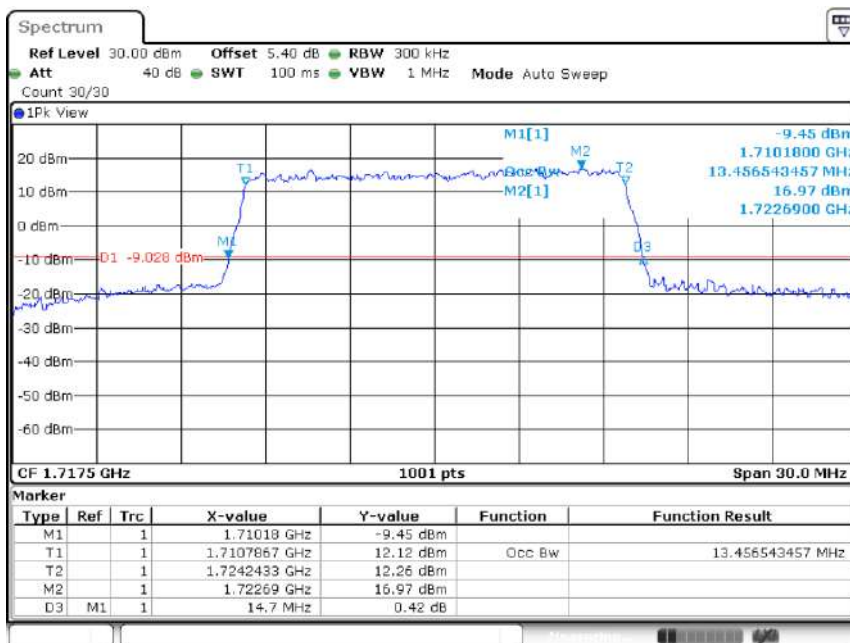


Band4-15MHz-QPSK-20325-75RB#0-13.457



Date: 15 JUL 2020 16:09:52

Band4-15MHz-64QAM-20025-75RB#0-13.457



Date: 10 AUG 2020 23:31:04



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

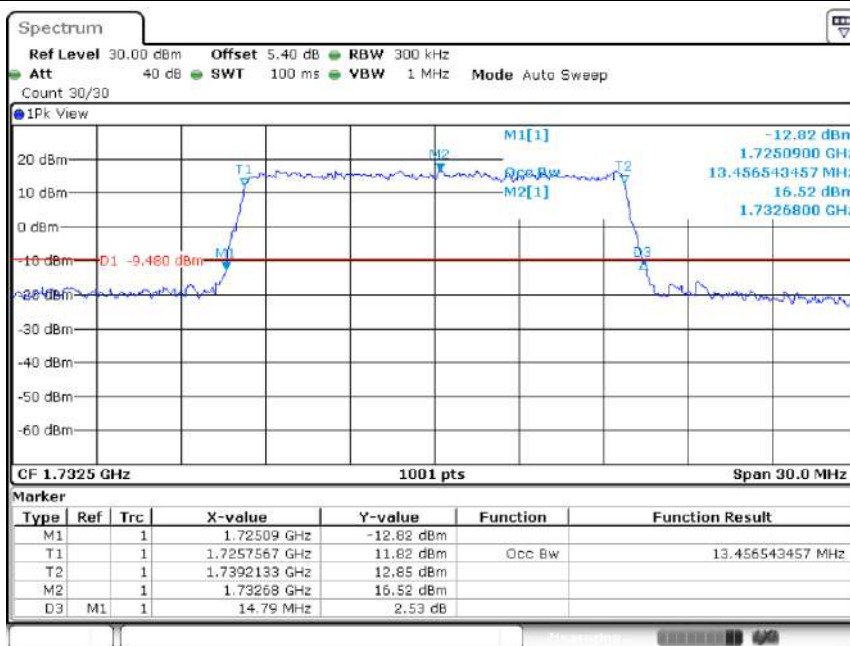
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

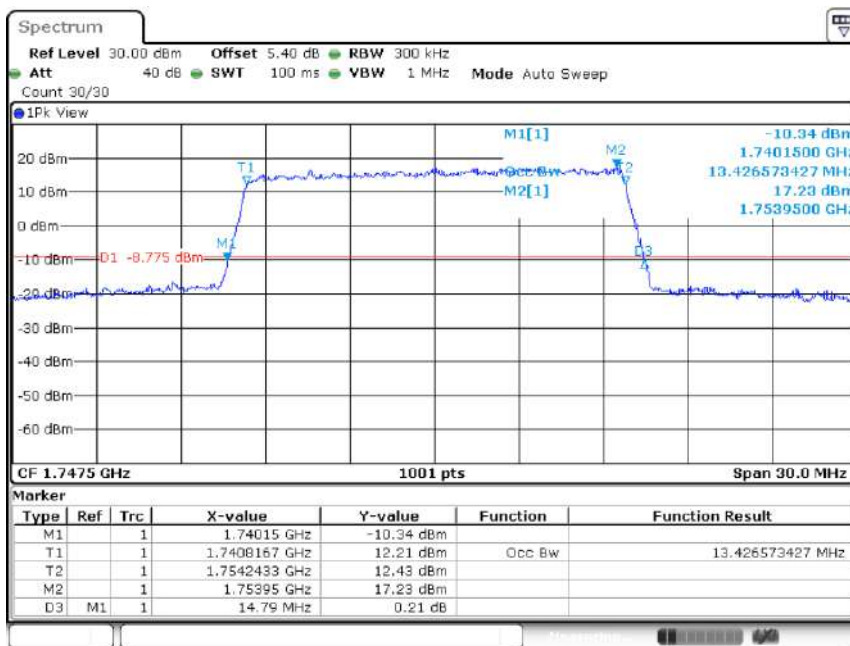
Member of the SGS Group (SGS SA)

Band4-15MHz-64QAM-20175-75RB#0-13.457



Date: 10.AUG 2020 23:31:17

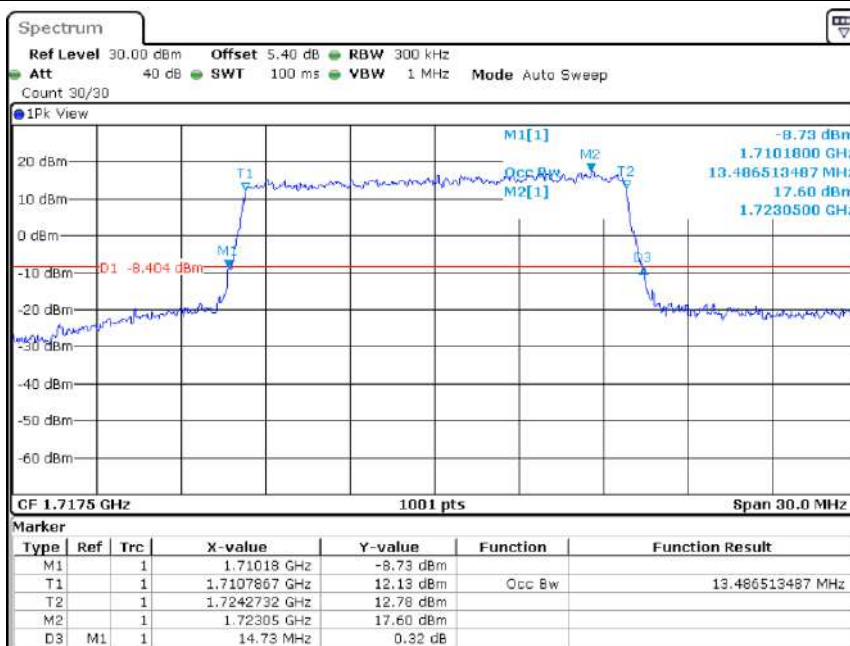
Band4-15MHz-64QAM-20325-75RB#0-13.427



Date: 10.AUG 2020 23:31:30

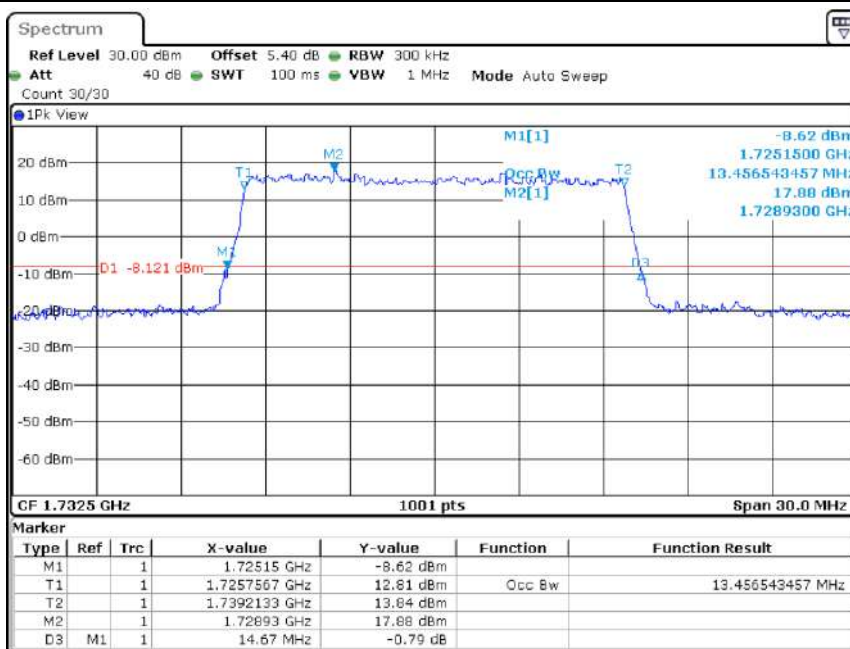


Band4-15MHz-16QAM-20025-75RB#0-13.487



Date: 15 JUL 2020 16:09:14

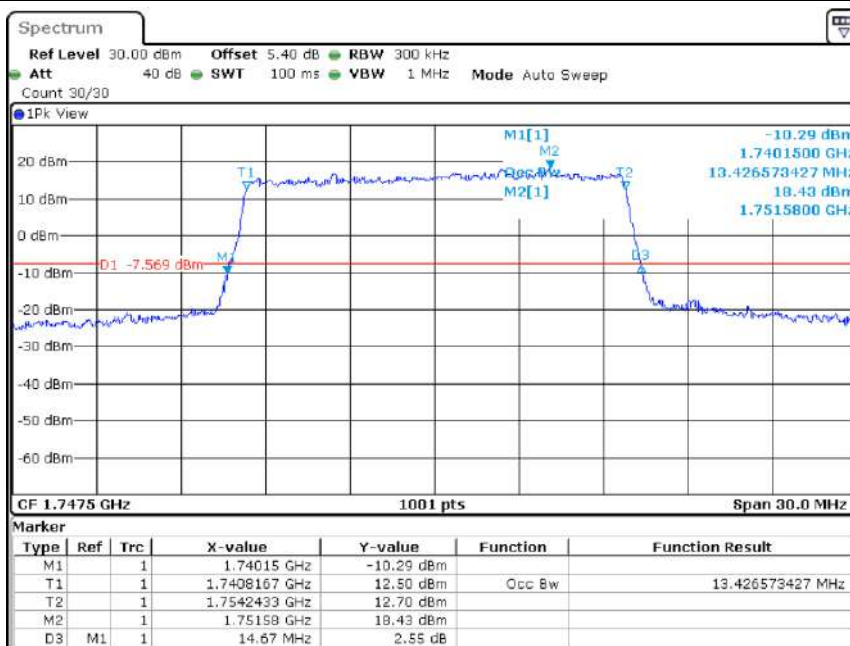
Band4-15MHz-16QAM-20175-75RB#0-13.457



Date: 15 JUL 2020 16:09:39

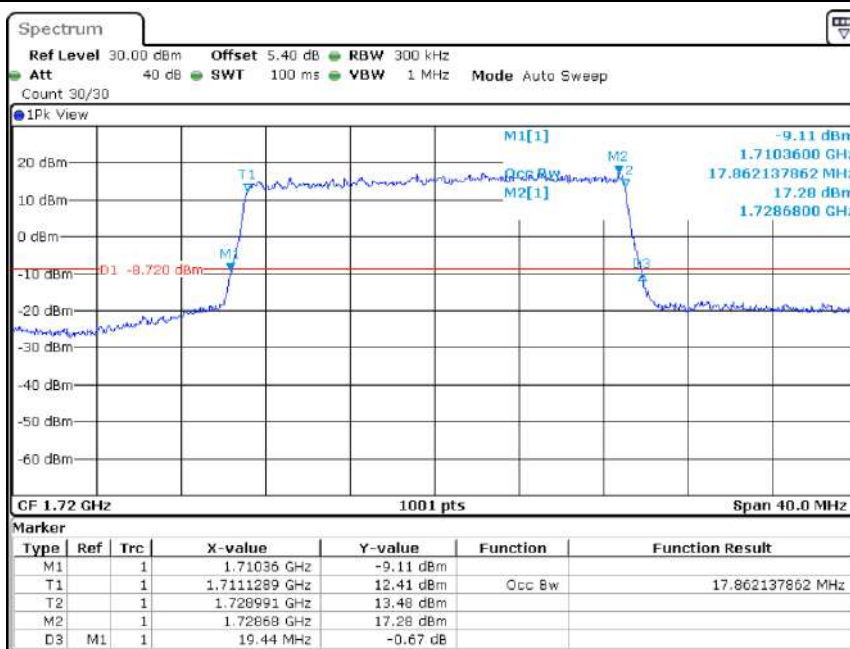


Band4-15MHz-16QAM-20325-75RB#0-13.427



Date: 15 JUL 2020 16:10:05

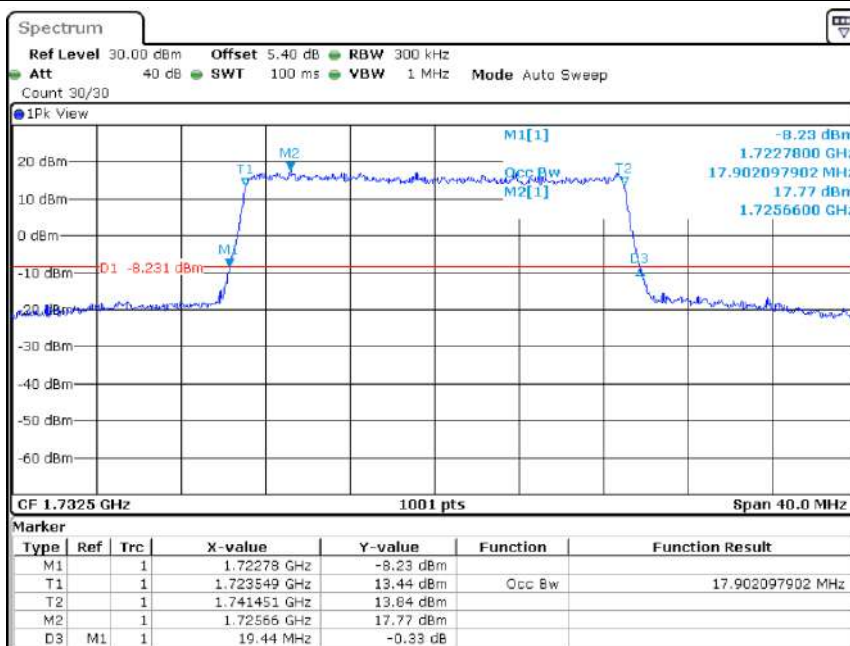
Band4-20MHz-QPSK-20050-100RB#0-17.862



Date: 15 JUL 2020 16:10:22

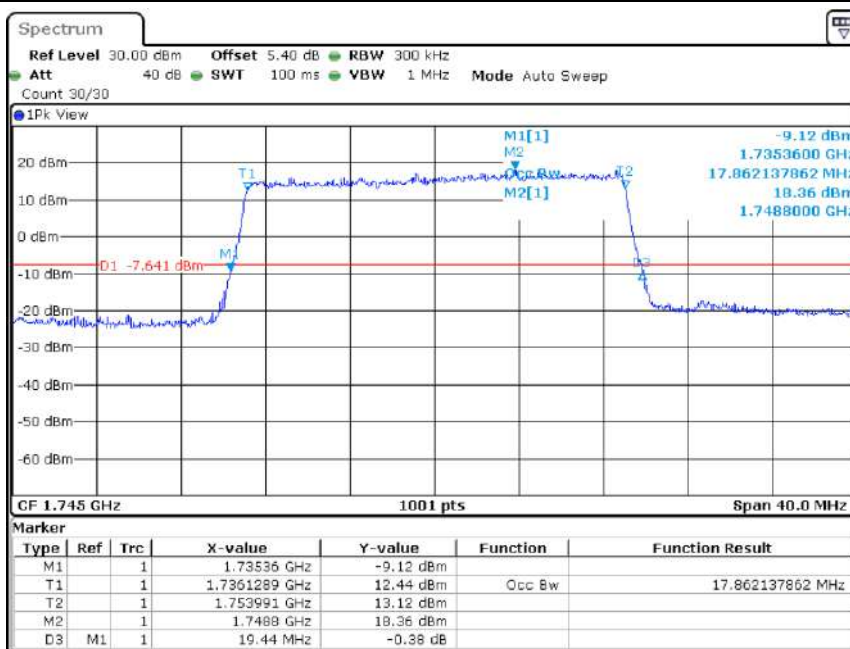


Band4-20MHz-QPSK-20175-100RB#0-17.902



Date: 15 JUL 2020 16:10:48

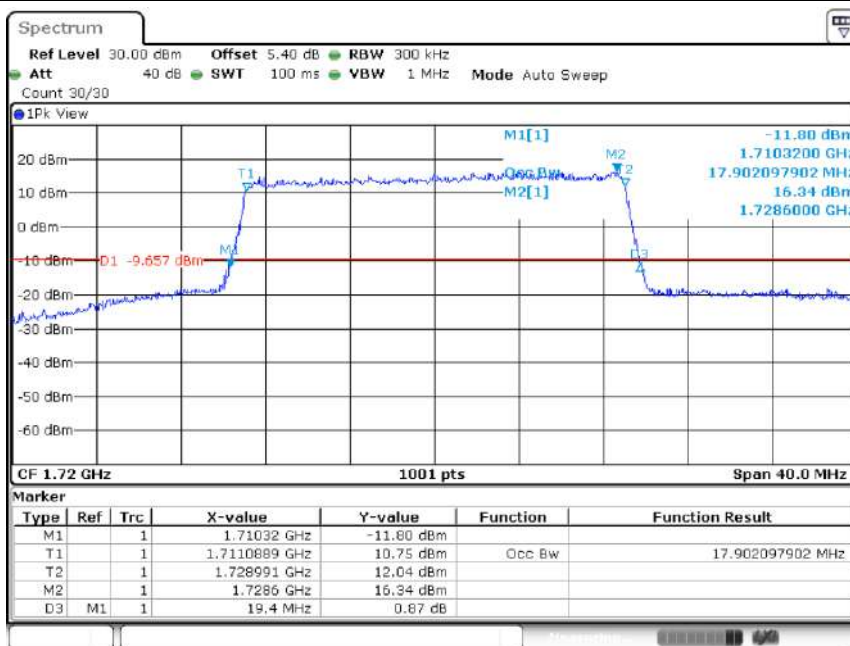
Band4-20MHz-QPSK-20300-100RB#0-17.862



Date: 15 JUL 2020 16:11:13

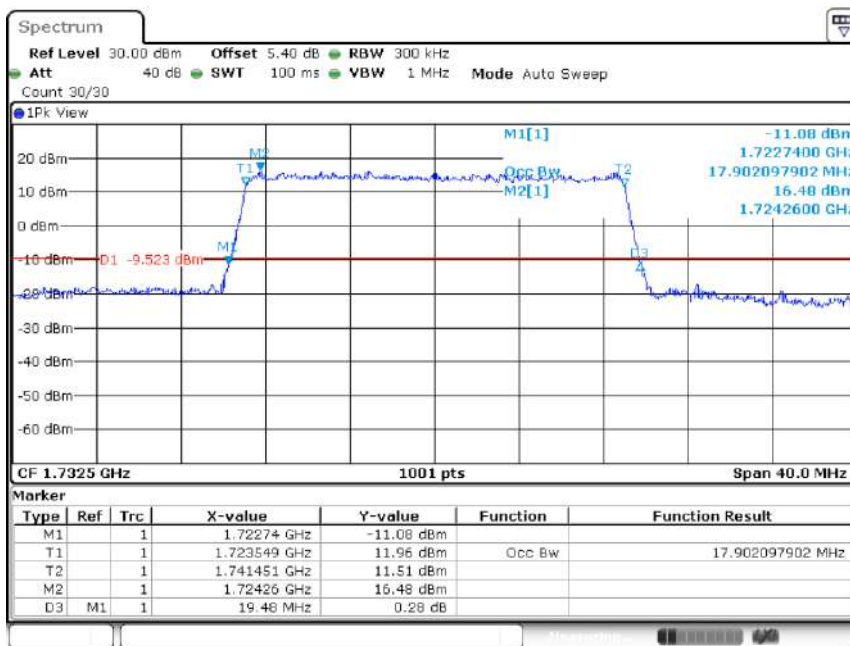


Band4-20MHz-64QAM-20050-100RB#0-17.902



Date: 10.AUG 2020 23:31:49

Band4-20MHz-64QAM-20175-100RB#0-17.902



Date: 10.AUG 2020 23:32:02



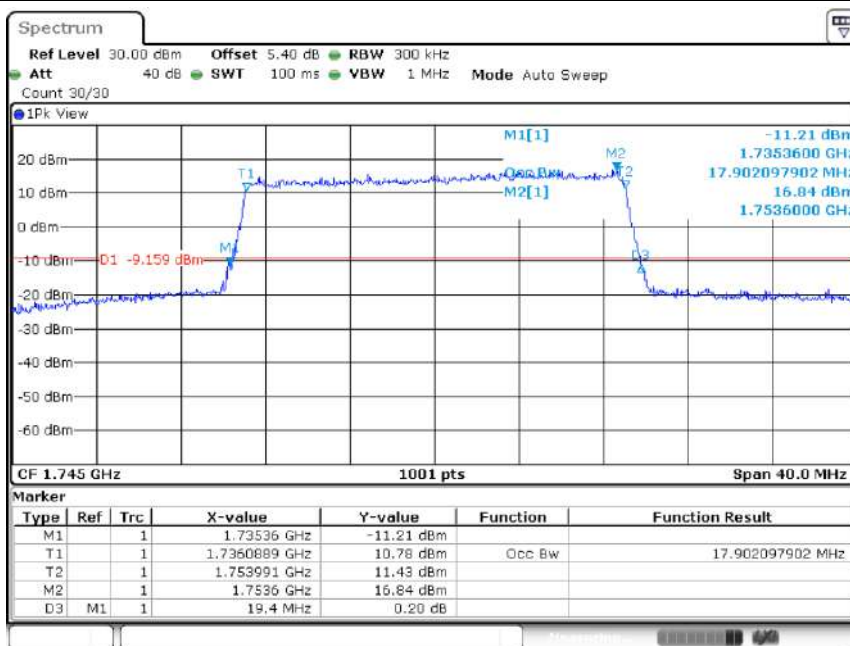
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

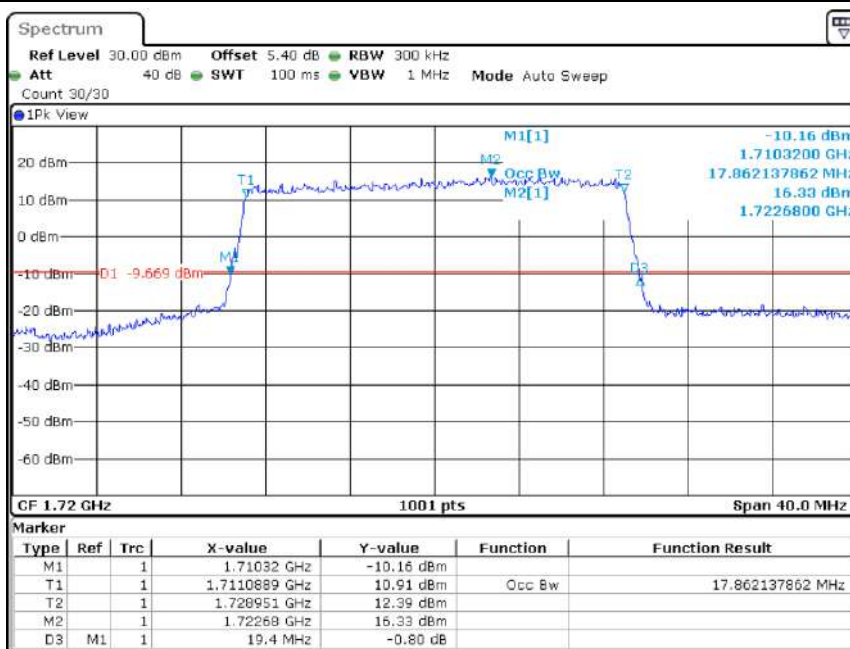
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-64QAM-20300-100RB#0-17.902



Date: 10.AUG 2020 23:32:15

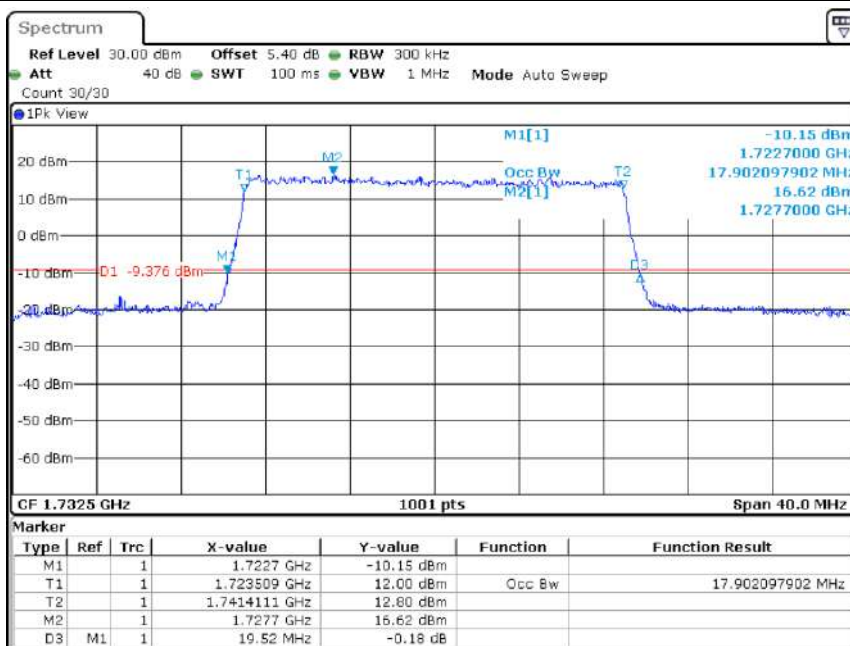
Band4-20MHz-16QAM-20050-100RB#0-17.862



Date: 15.JUL 2020 16:10:35

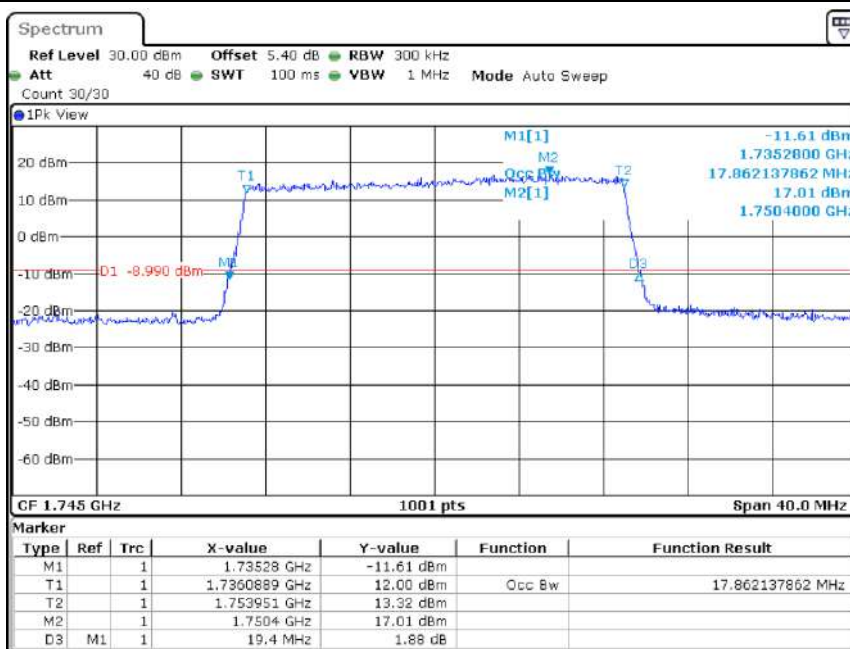


Band4-20MHz-16QAM-20175-100RB#0-17.902



Date: 15 JUL 2020 16:11:01

Band4-20MHz-16QAM-20300-100RB#0-17.862



Date: 15 JUL 2020 16:11:26



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

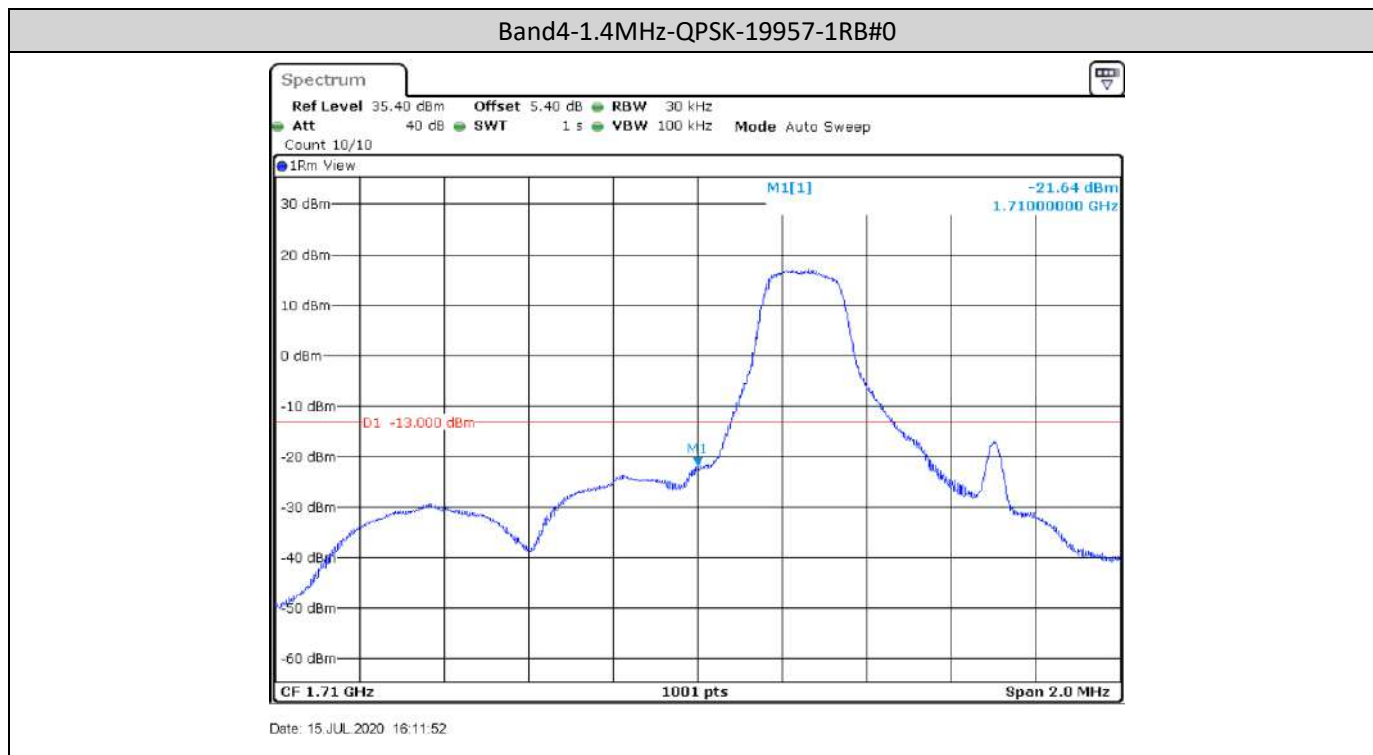
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

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

5. Band Edge Compliance

5.1. Test Plots

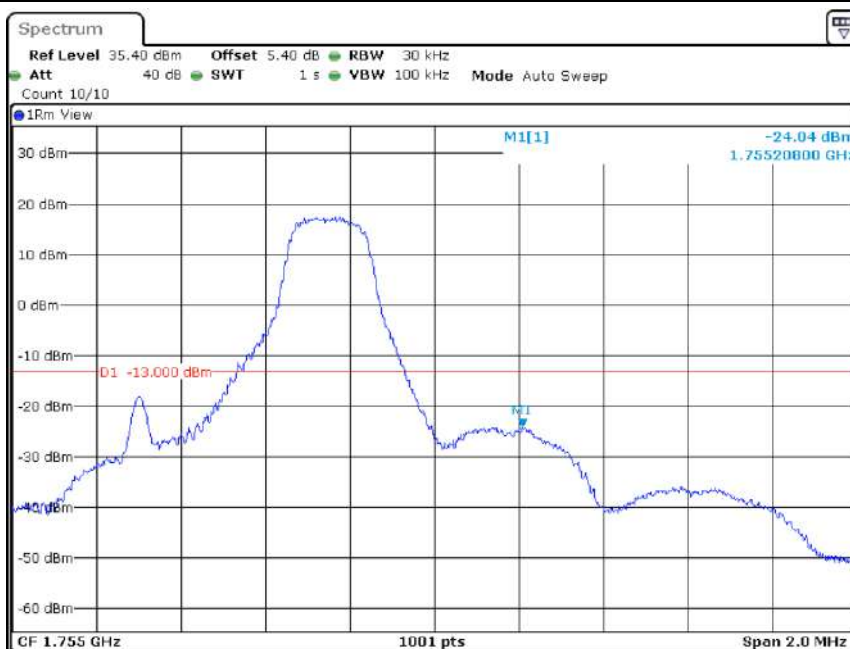


Band4-1.4MHz-QPSK-19957-6RB#0



Date: 15 JUL 2020 16:12:33

Band4-1.4MHz-QPSK-20393-1RB#5



Date: 15 JUL 2020 16:13:18



Band4-1.4MHz-QPSK-20393-6RB#0



Date: 15 JUL 2020 16:13:59

Band4-1.4MHz-64QAM-19957-1RB#0



Date: 10 AUG 2020 23:32:43



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back of the report, available on request or accessible at <http://www.sgs.com> and its 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 contract from their own responsibilities. The Company's responsibility is limited to the content of this document and does not extend, 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.

For any request for a copy of the report or testing / inspection reports / certificate, please contact us at telephone: (85-755) 8307 1443, or email: CN@pechenko@sgs.com.

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

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



Band4-1.4MHz-64QAM-19957-6RB#0



Date: 10.AUG.2020 23:33:04

Band4-1.4MHz-64QAM-20393-1RB#5



Date: 10.AUG.2020 23:33:30



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.

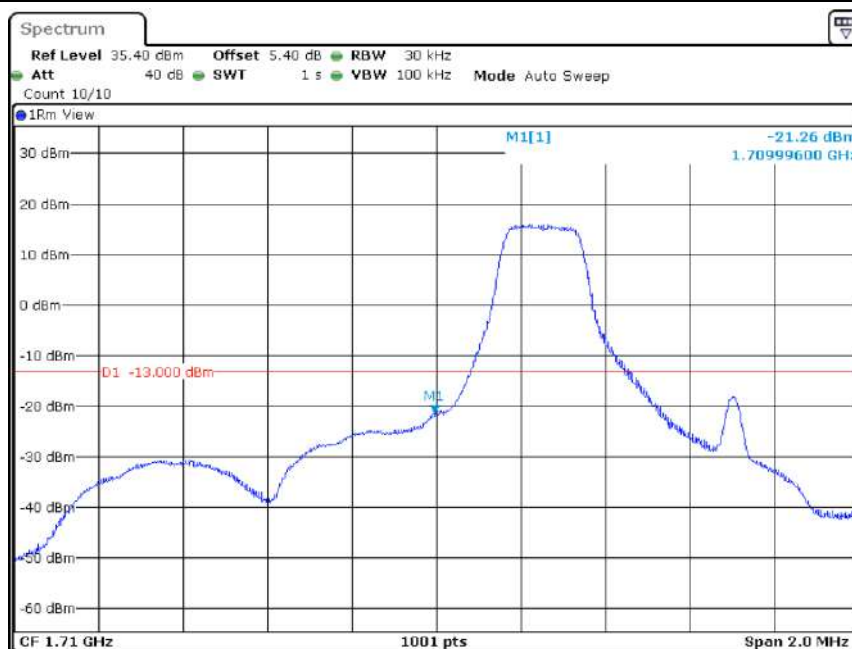
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-1.4MHz-64QAM-20393-6RB#0



Date: 10.AUG 2020 23:33:50

Band4-1.4MHz-16QAM-19957-1RB#0



Date: 15.JUL 2020 16:12:12



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

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

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

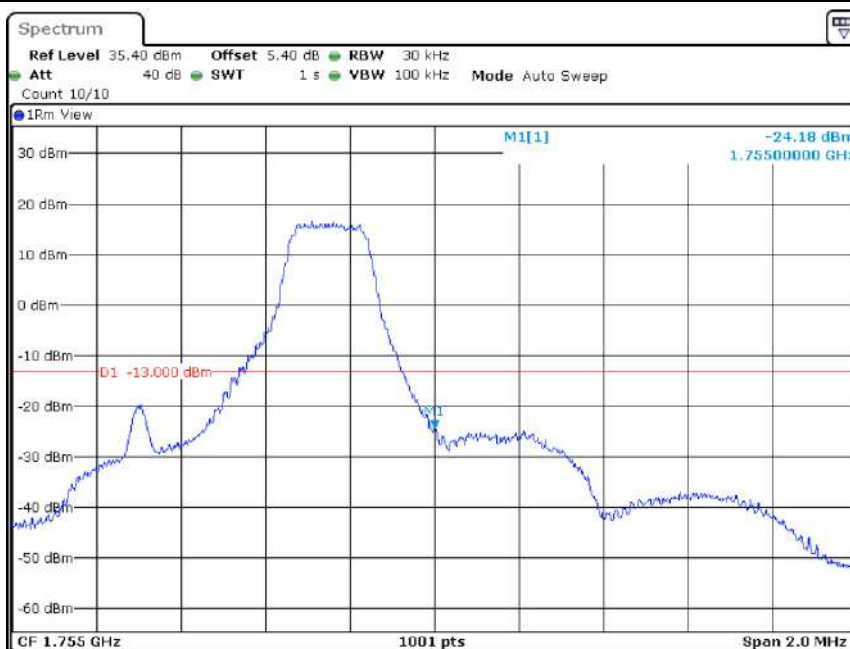
Member of the SGS Group (SGS SA)

Band4-1.4MHz-16QAM-19957-6RB#0



Date: 15 JUL 2020 16:12:53

Band4-1.4MHz-16QAM-20393-1RB#5



Date: 15 JUL 2020 16:13:39



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

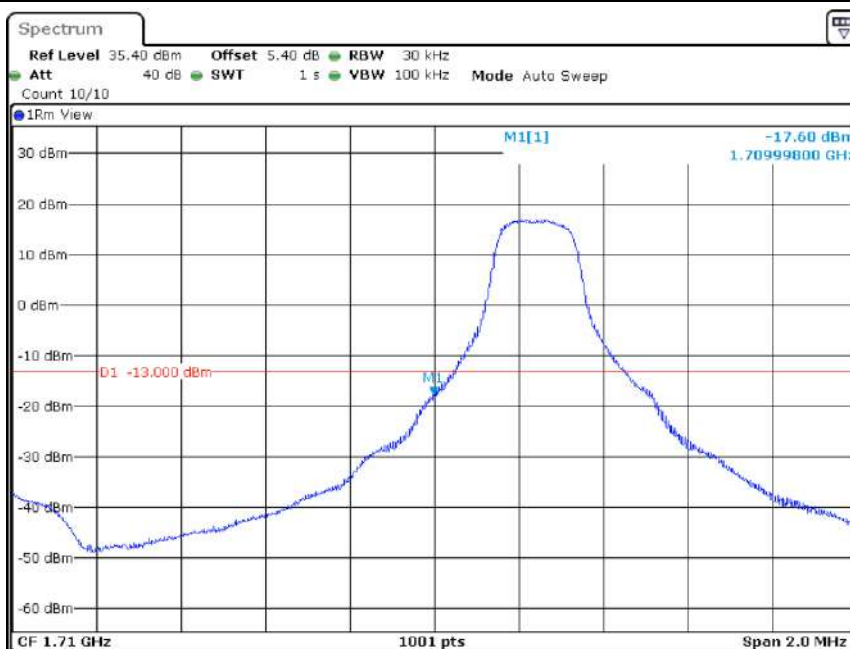
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-1.4MHz-16QAM-20393-6RB#0



Date: 15 JUL 2020 16:14:20

Band4-3MHz-QPSK-19965-1RB#0



Date: 15 JUL 2020 16:14:45



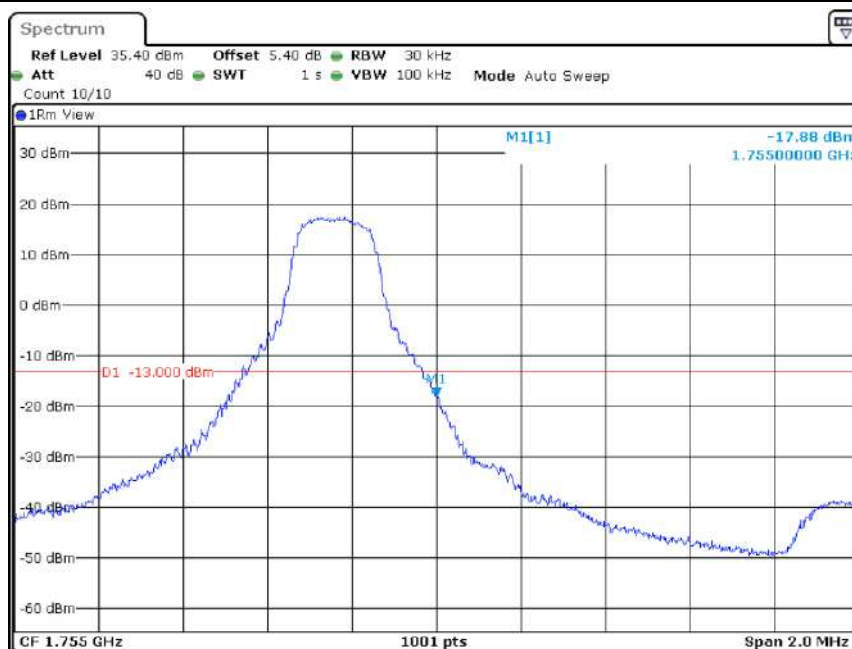


Band4-3MHz-QPSK-19965-15RB#0



Date: 15 JUL 2020 16:15:26

Band4-3MHz-QPSK-20385-1RB#14

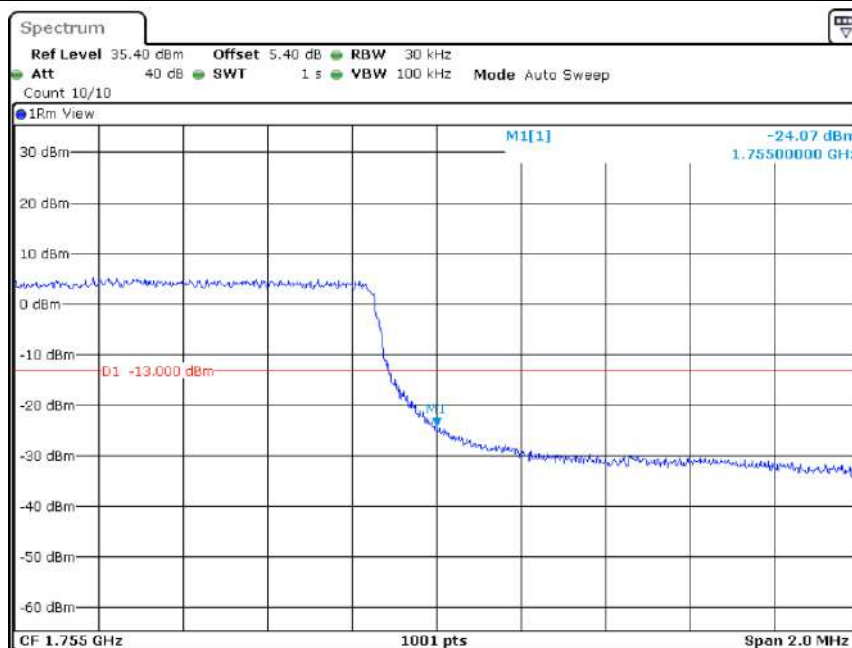


Date: 15 JUL 2020 16:16:11



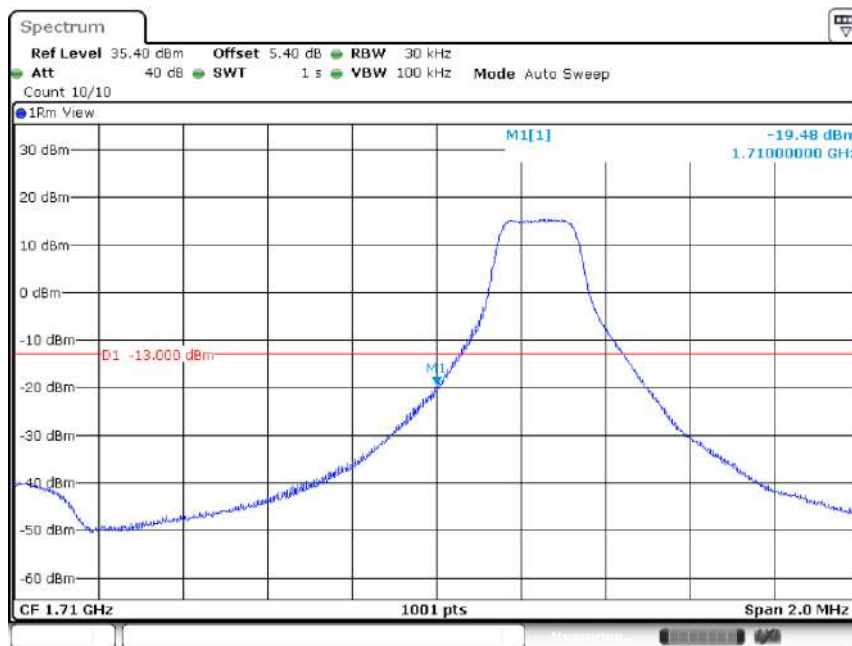
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band4-3MHz-QPSK-20385-15RB#0



Date: 15 JUL 2020 16:16:52

Band4-3MHz-64QAM-19965-1RB#0



Date: 10 AUG 2020 23:34:18



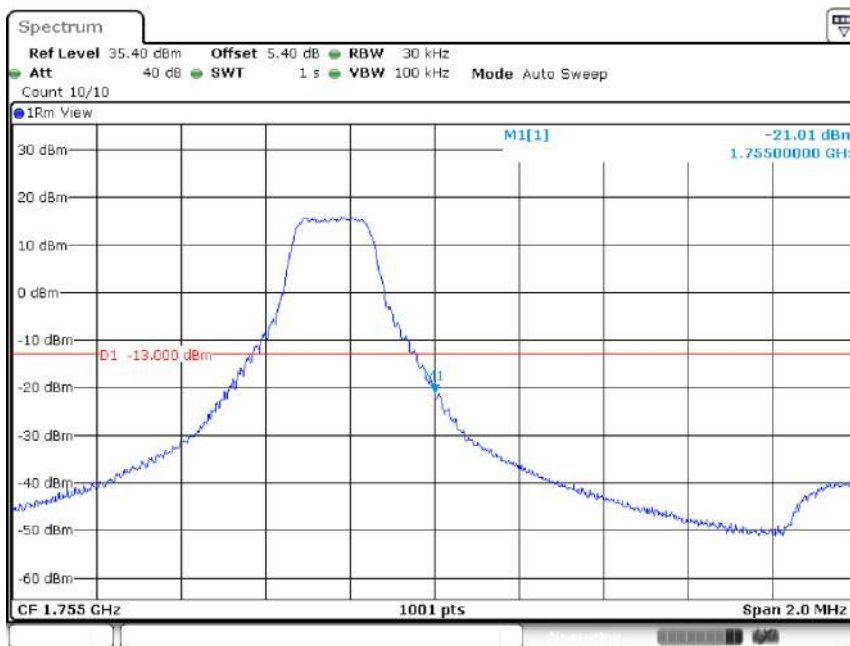
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band4-3MHz-64QAM-19965-15RB#0



Date: 10.AUG.2020 23:34:38

Band4-3MHz-64QAM-20385-1RB#14



Date: 10.AUG.2020 23:35:04





Band4-3MHz-64QAM-20385-15RB#0



Date: 10.AUG 2020 23:35:25

Band4-3MHz-16QAM-19965-1RB#0



Date: 15.JUL 2020 16:15:06



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

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

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

Member of the SGS Group (SGS SA)

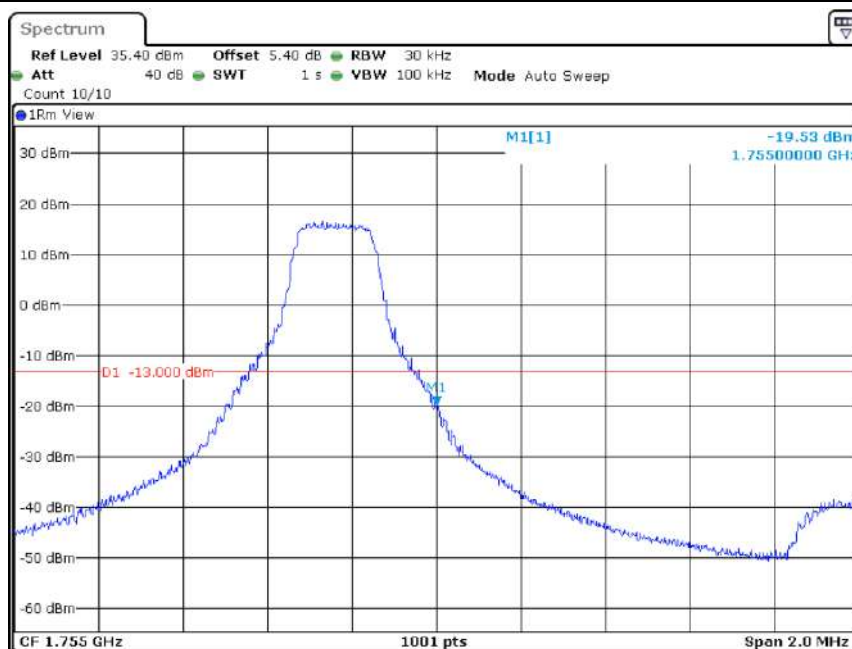


Band4-3MHz-16QAM-19965-15RB#0



Date: 15 JUL 2020 16:15:47

Band4-3MHz-16QAM-20385-1RB#14



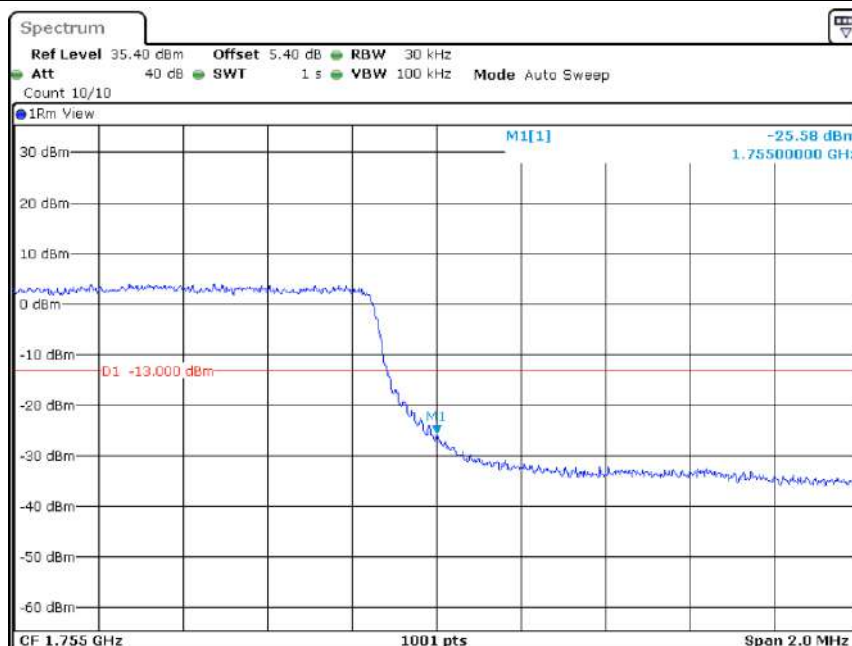
Date: 15 JUL 2020 16:16:32



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained 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.

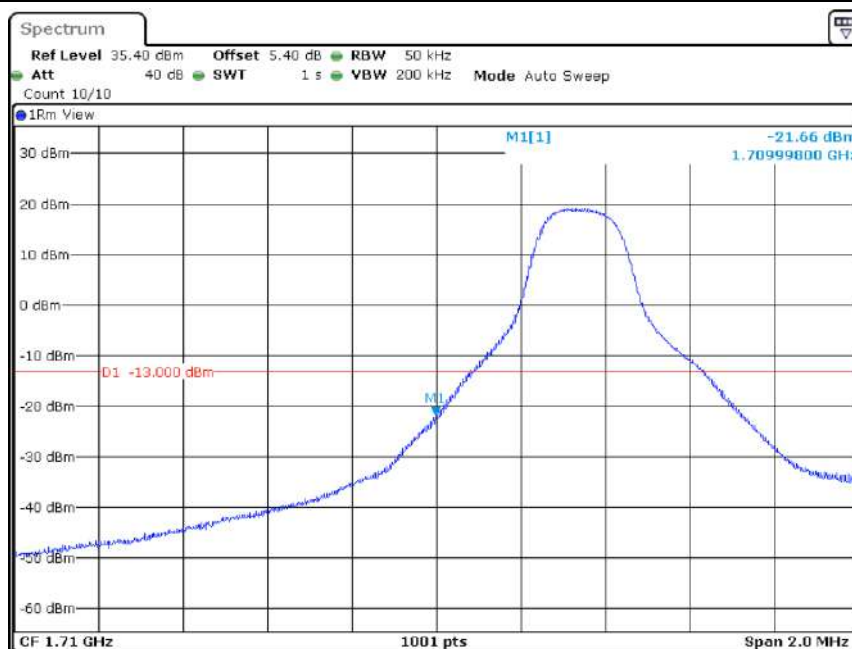
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-3MHz-16QAM-20385-15RB#0



Date: 15 JUL 2020 16:17:13

Band4-5MHz-QPSK-19975-1RB#0



Date: 15 JUL 2020 16:17:39



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

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

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

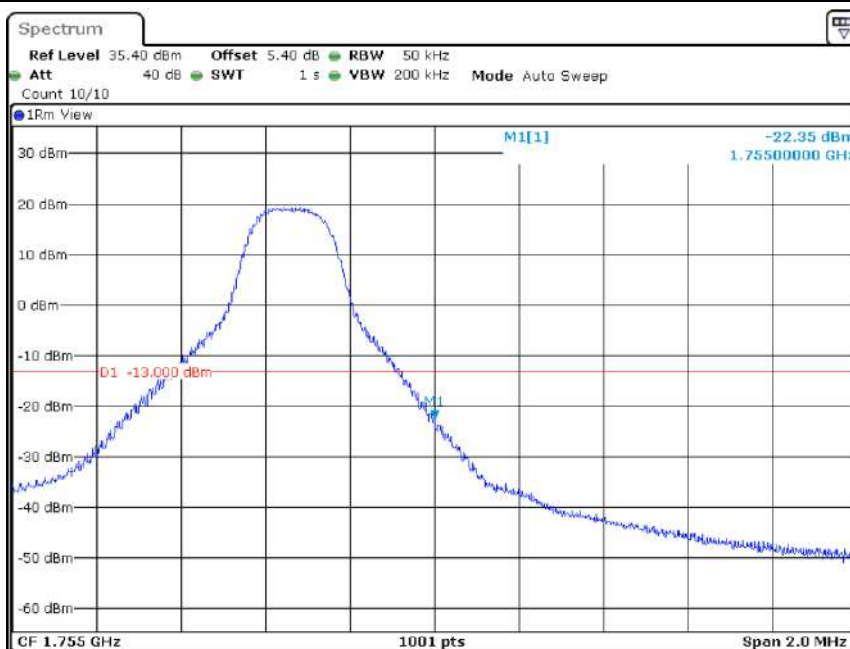
Member of the SGS Group (SGS SA)

Band4-5MHz-QPSK-19975-25RB#0



Date: 15 JUL 2020 16:18:20

Band4-5MHz-QPSK-20375-1RB#24



Date: 15 JUL 2020 16:19:05

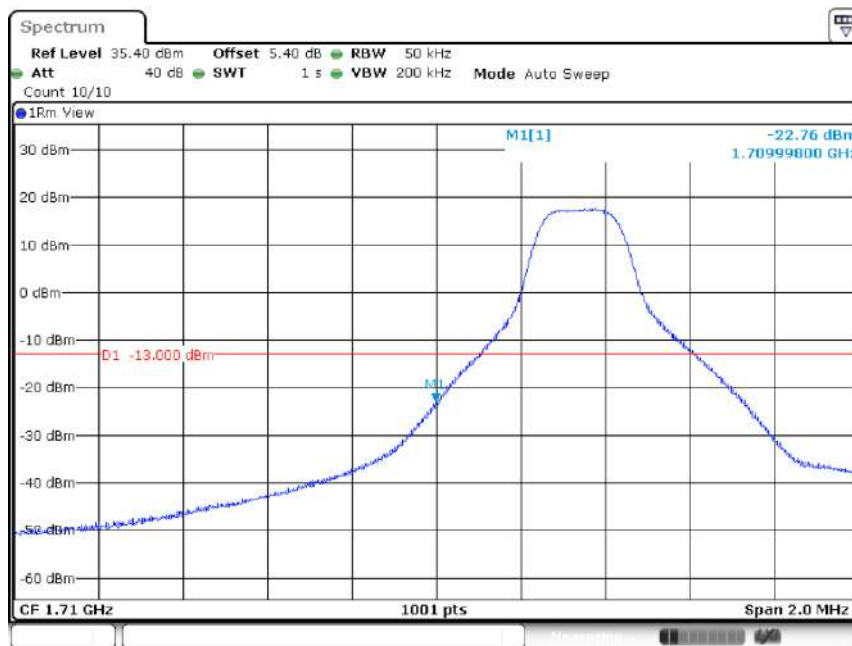


Band4-5MHz-QPSK-20375-25RB#0



Date: 15 JUL 2020 16:19:46

Band4-5MHz-64QAM-19975-1RB#0



Date: 10 AUG 2020 23:35:52



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

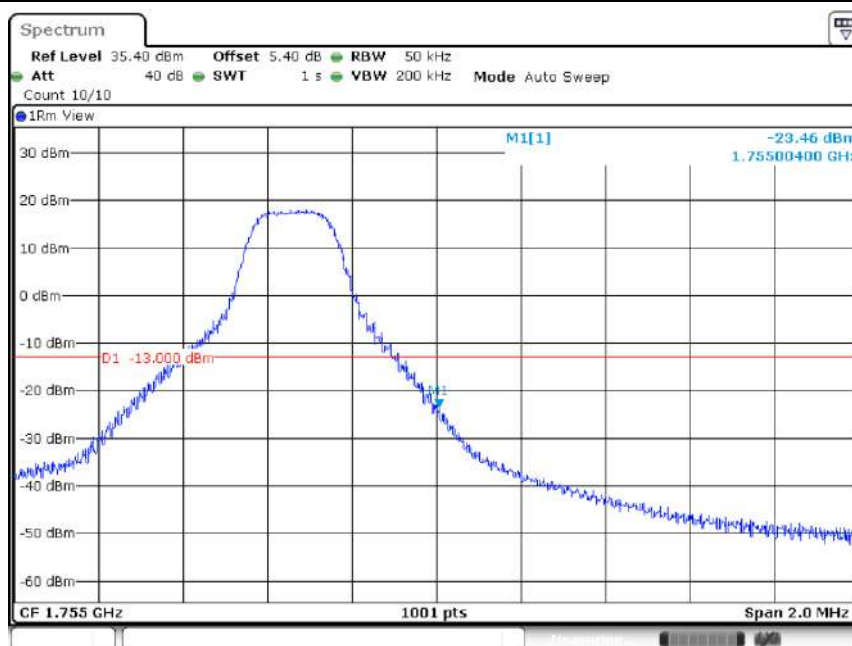


Band4-5MHz-64QAM-19975-25RB#0



Date: 10.AUG.2020 23:36:13

Band4-5MHz-64QAM-20375-1RB#24



Date: 10.AUG.2020 23:36:39



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

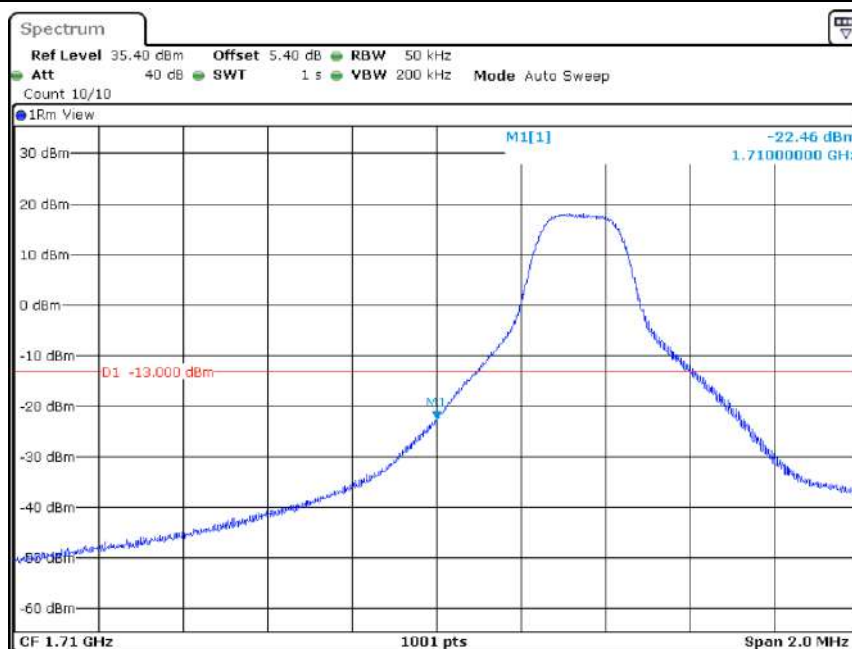


Band4-5MHz-64QAM-20375-25RB#0



Date: 10.AUG 2020 23:36:59

Band4-5MHz-16QAM-19975-1RB#0



Date: 15.JUL 2020 16:17:59



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

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

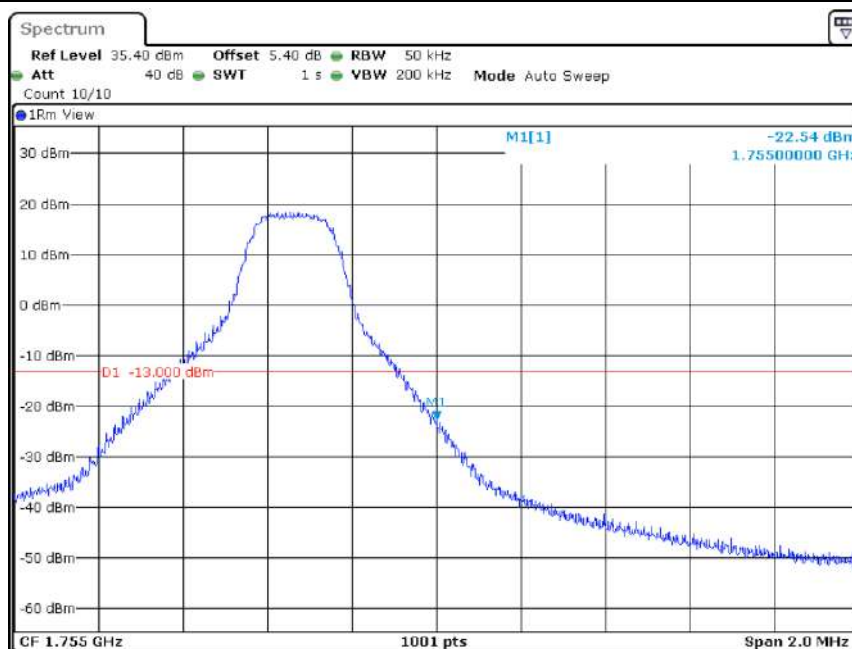
Member of the SGS Group (SGS SA)

Band4-5MHz-16QAM-19975-25RB#0



Date: 15 JUL 2020 16:18:40

Band4-5MHz-16QAM-20375-1RB#24



Date: 15 JUL 2020 16:19:26



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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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

Band4-5MHz-16QAM-20375-25RB#0



Date: 15 JUL 2020 16:20:07

Band4-10MHz-QPSK-20000-1RB#0



Date: 15 JUL 2020 16:20:32



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

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

Band4-10MHz-QPSK-20000-50RB#0



Date: 15 JUL 2020 16:21:13

Band4-10MHz-QPSK-20350-1RB#49



Date: 15 JUL 2020 16:21:59

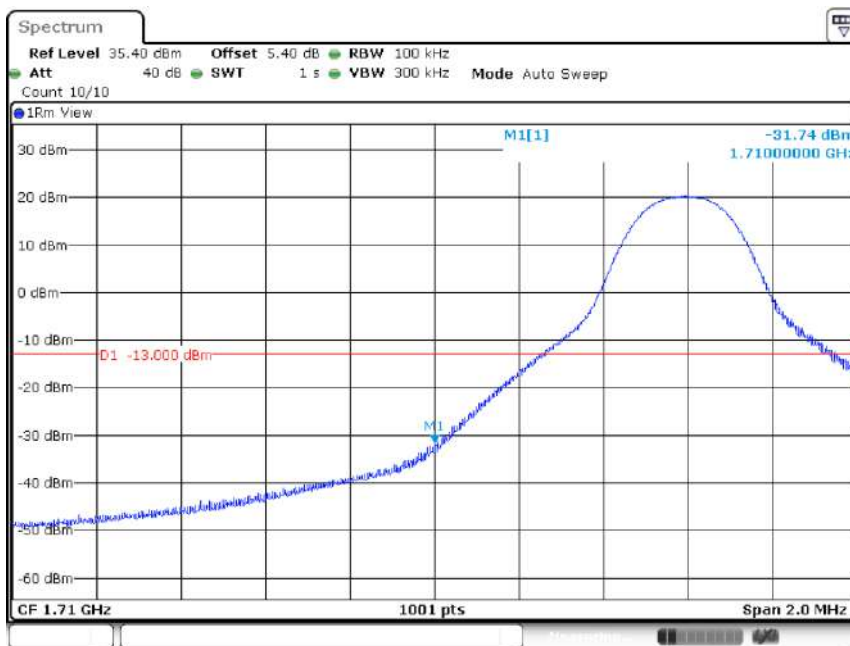


Band4-10MHz-QPSK-20350-50RB#0



Date: 15 JUL 2020 16:22:40

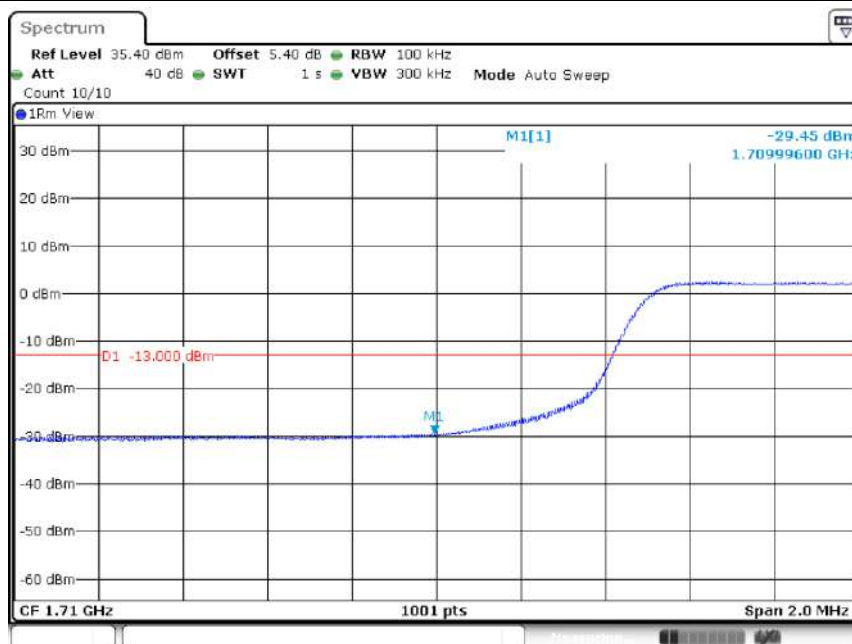
Band4-10MHz-64QAM-20000-1RB#0



Date: 10 AUG 2020 23:37:26

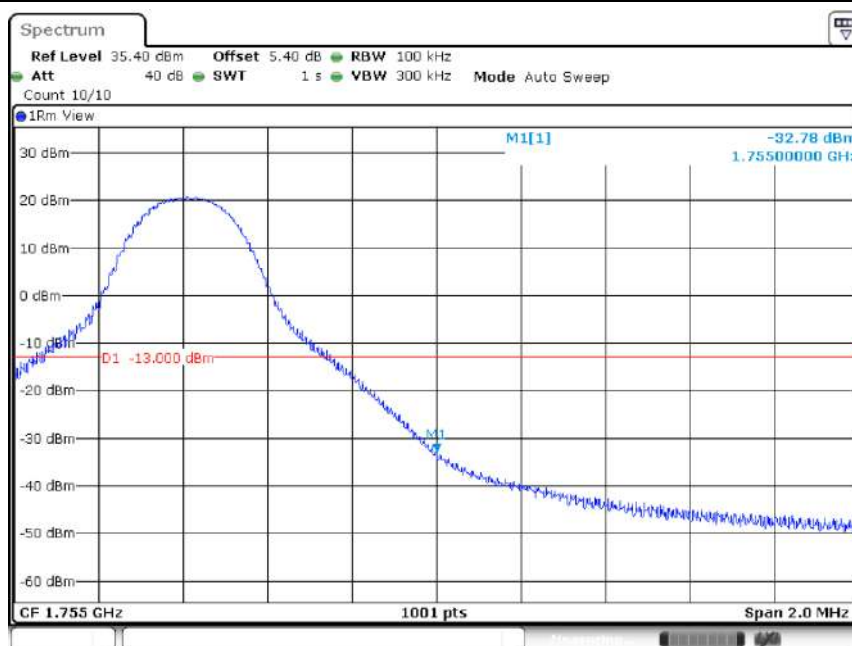


Band4-10MHz-64QAM-20000-50RB#0



Date: 10.AUG 2020 23:37:47

Band4-10MHz-64QAM-20350-1RB#49



Date: 10.AUG 2020 23:38:13



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

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

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

Band4-10MHz-64QAM-20350-50RB#0



Date: 10.AUG.2020 23:38:33

Band4-10MHz-16QAM-20000-1RB#0



Date: 15.JUL.2020 16:20:53



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

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

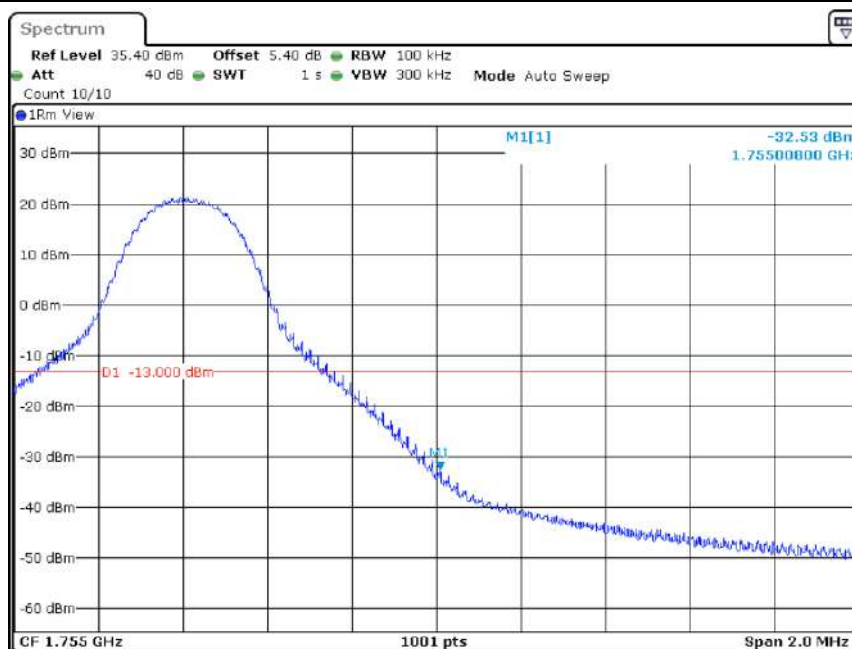
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-10MHz-16QAM-20000-50RB#0



Date: 15 JUL 2020 16:21:34

Band4-10MHz-16QAM-20350-1RB#49



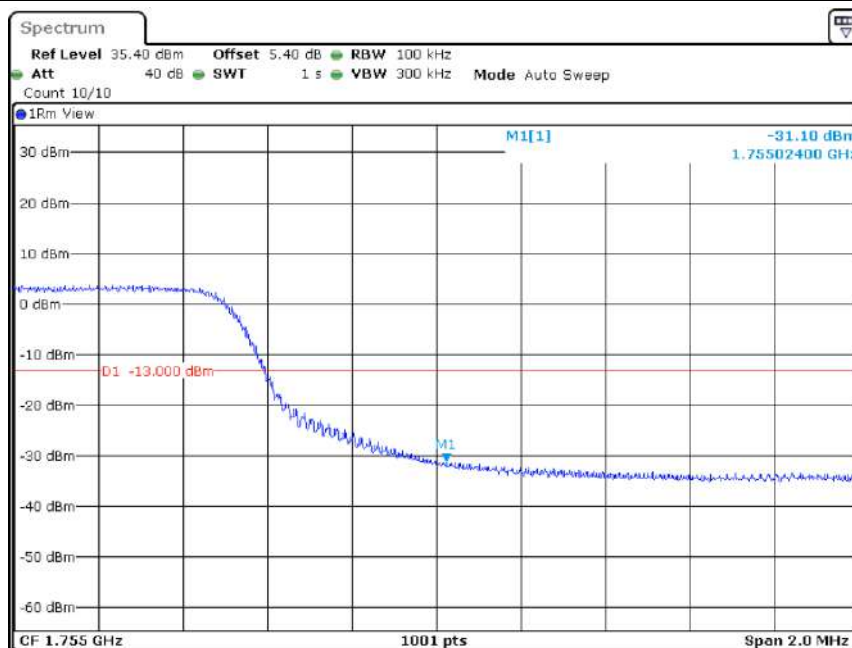
Date: 15 JUL 2020 16:22:19



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

Band4-10MHz-16QAM-20350-50RB#0



Date: 15 JUL 2020 16:23:00

Band4-15MHz-QPSK-20025-1RB#0



Date: 15 JUL 2020 16:23:25



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

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

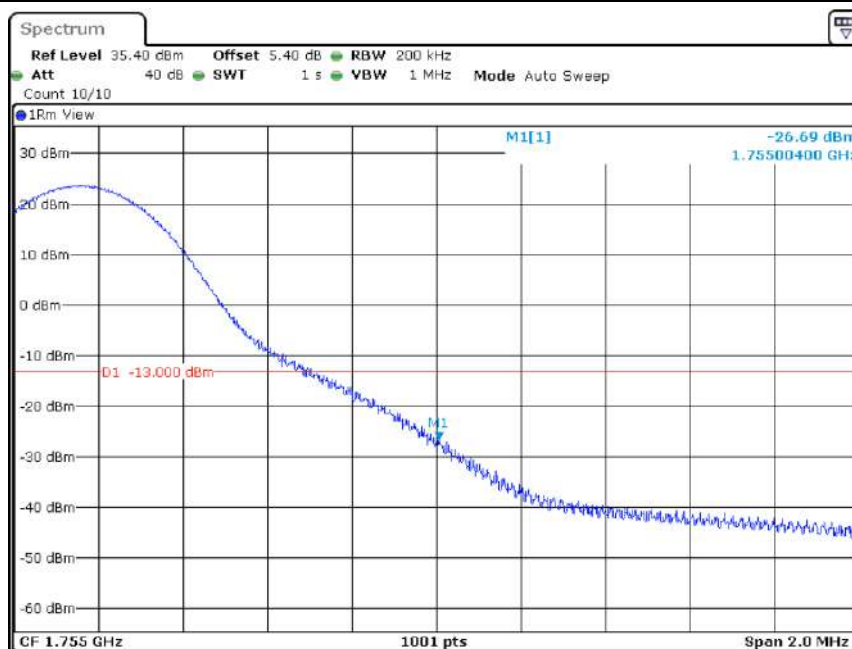
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-15MHz-QPSK-20025-75RB#0



Date: 15 JUL 2020 16:24:06

Band4-15MHz-QPSK-20325-1RB#74



Date: 15 JUL 2020 16:24:52



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

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMA, CNAS, ILAC) 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

Band4-15MHz-QPSK-20325-75RB#0



Date: 15 JUL 2020 16:25:33

Band4-15MHz-64QAM-20025-1RB#0



Date: 10 AUG 2020 23:39:01



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

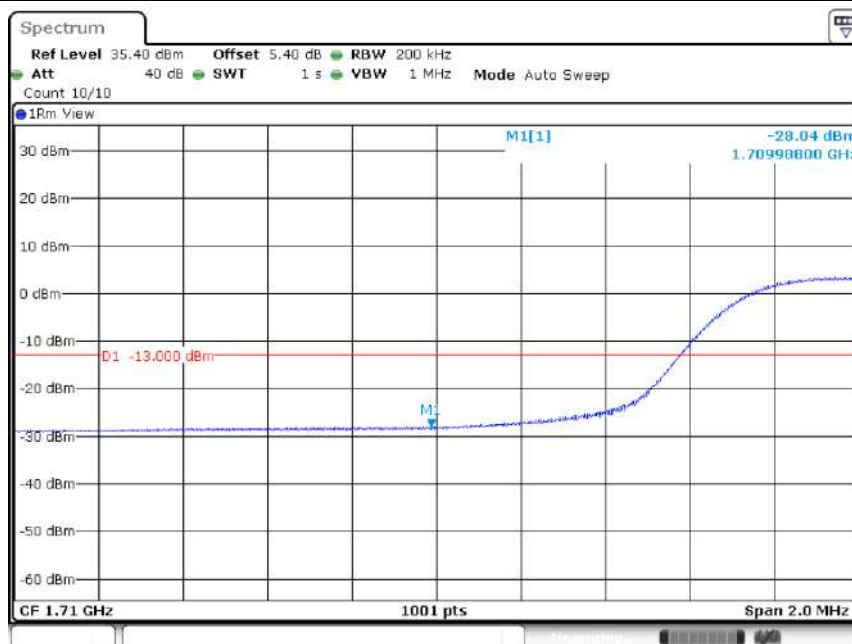
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Member of the SGS Group (SGS SA)

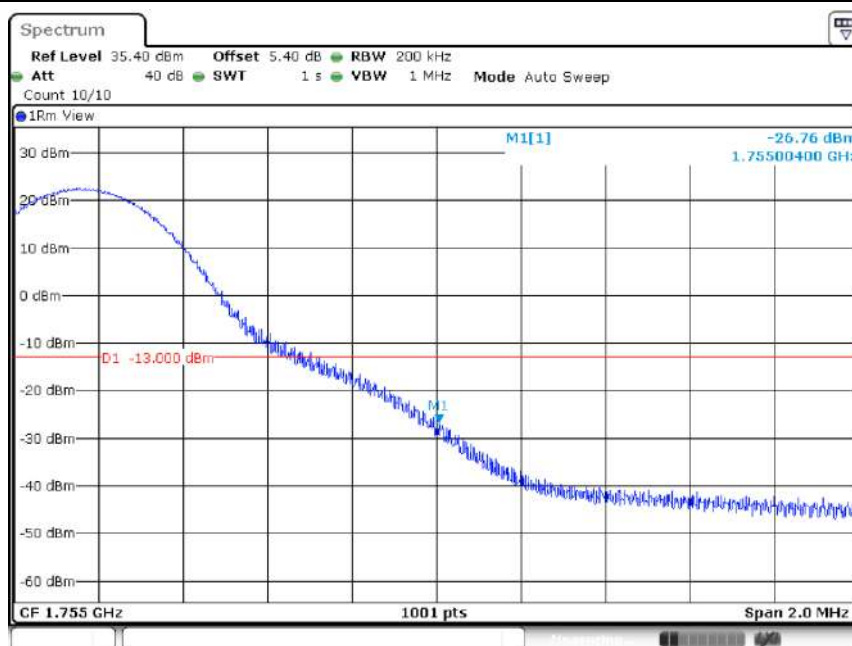


Band4-15MHz-64QAM-20025-75RB#0



Date: 10.AUG 2020 23:39:22

Band4-15MHz-64QAM-20325-1RB#74



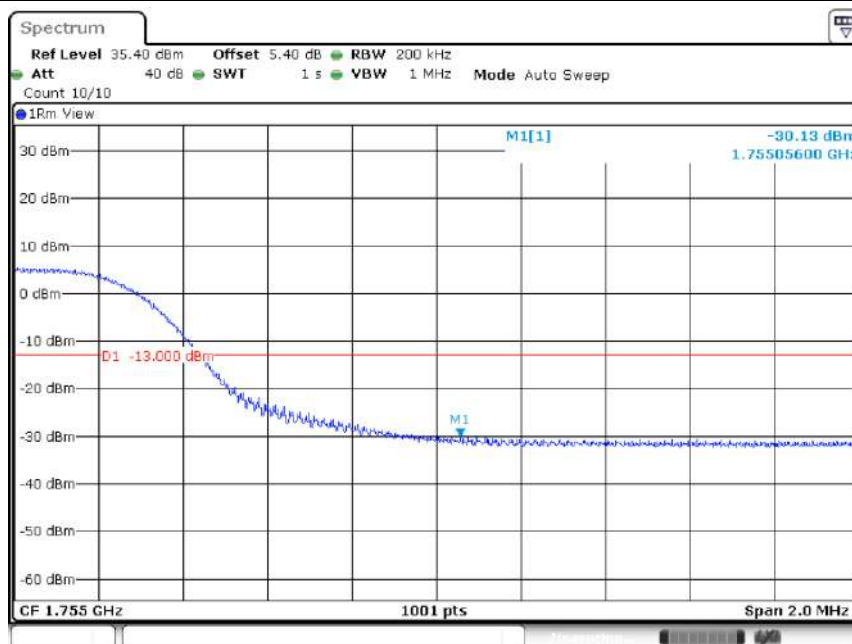
Date: 10.AUG 2020 23:39:48



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



Band4-15MHz-64QAM-20325-75RB#0



Date: 10.AUG.2020 23:40:08

Band4-15MHz-16QAM-20025-1RB#0



Date: 15.JUL.2020 16:23:46



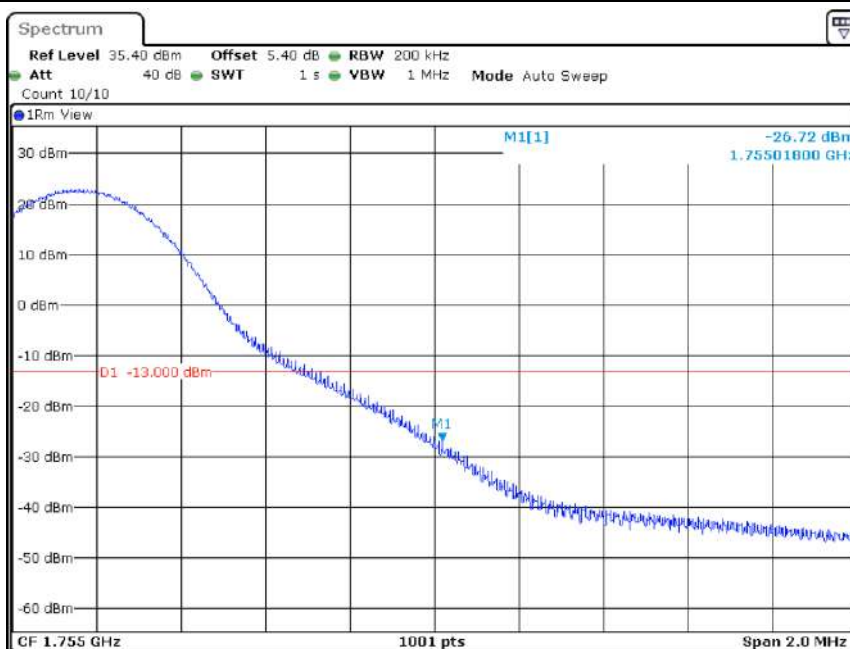
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band4-15MHz-16QAM-20025-75RB#0



Date: 15 JUL 2020 16:24:27

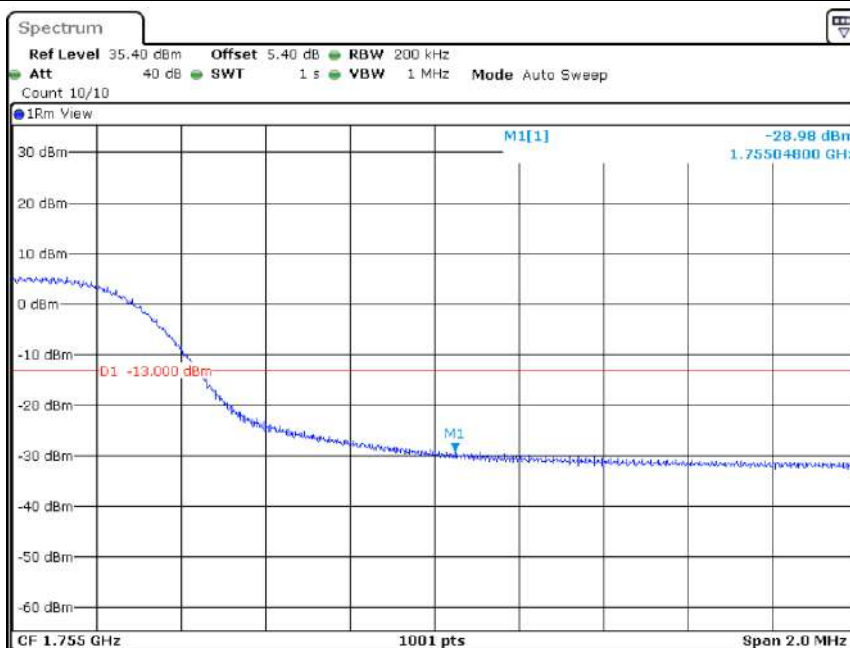
Band4-15MHz-16QAM-20325-1RB#74



Date: 15 JUL 2020 16:25:12



Band4-15MHz-16QAM-20325-75RB#0



Date: 15 JUL 2020 16:25:54

Band4-20MHz-QPSK-20050-1RB#0



Date: 15 JUL 2020 16:26:19

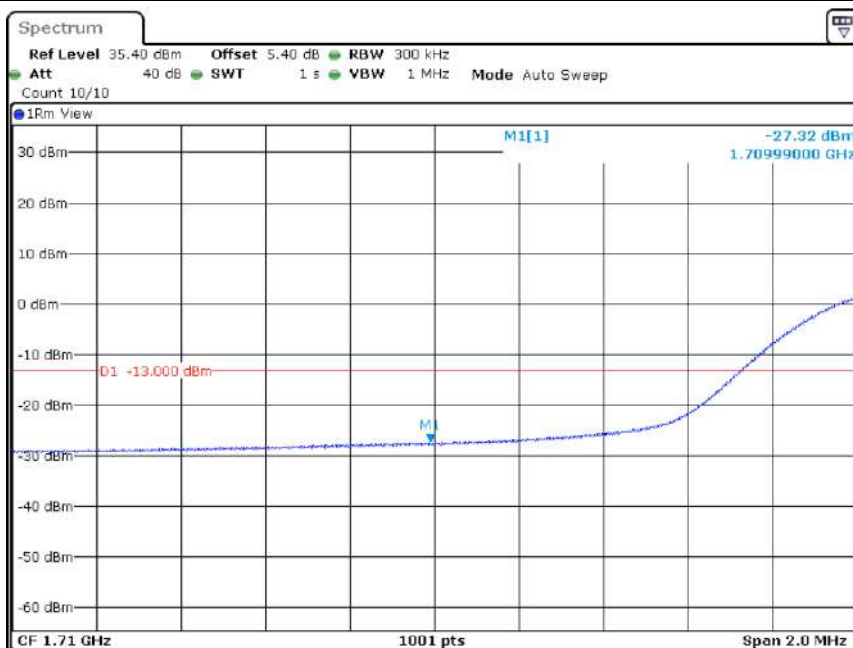


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

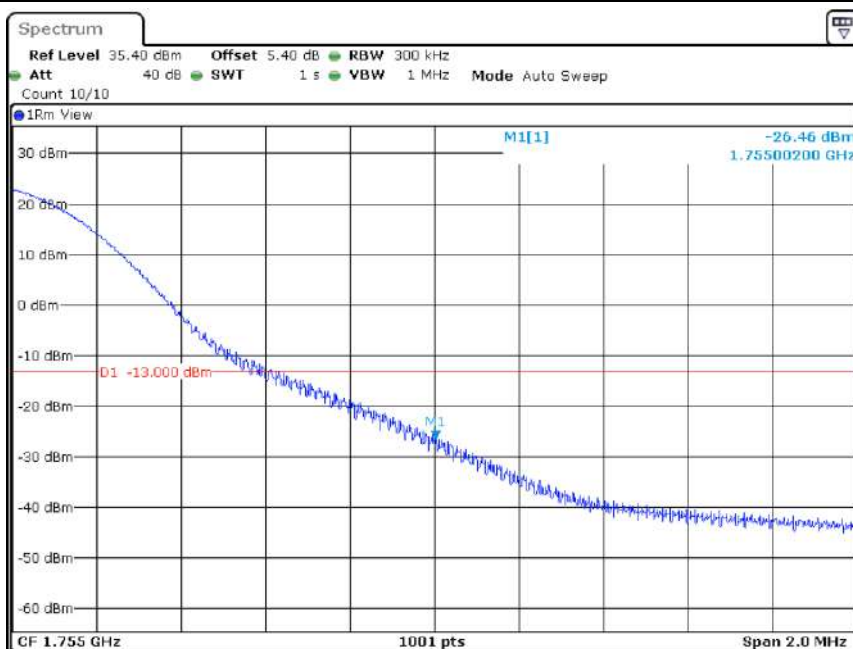
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-QPSK-20050-100RB#0



Date: 15 JUL 2020 16:27:00

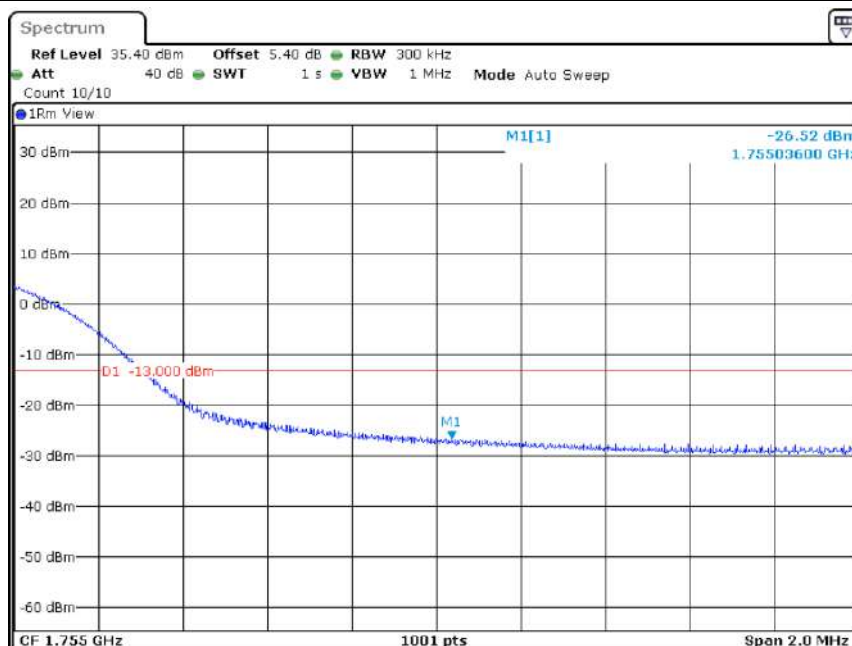
Band4-20MHz-QPSK-20300-1RB#99



Date: 15 JUL 2020 16:27:45

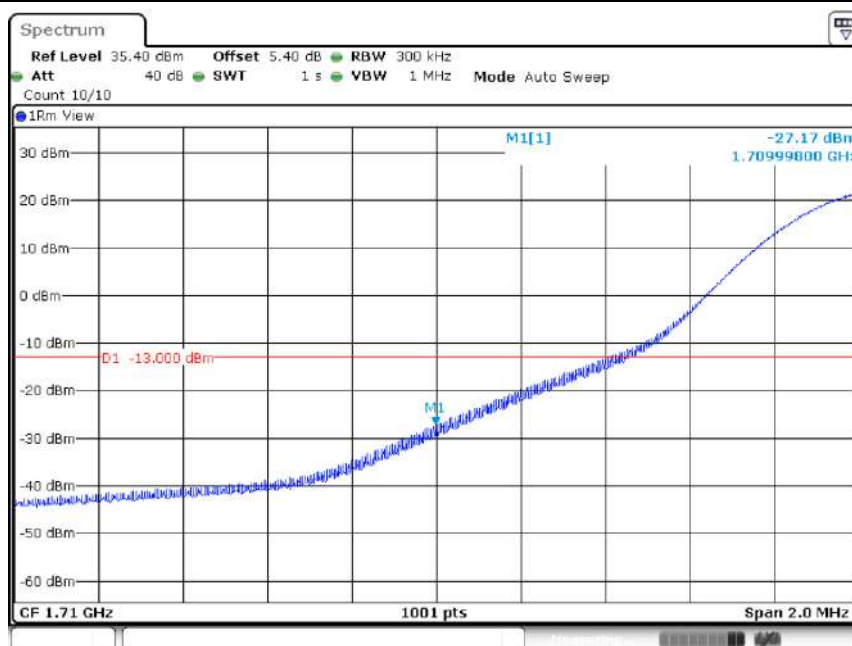


Band4-20MHz-QPSK-20300-100RB#0



Date: 15 JUL 2020 16:28:26

Band4-20MHz-64QAM-20050-1RB#0



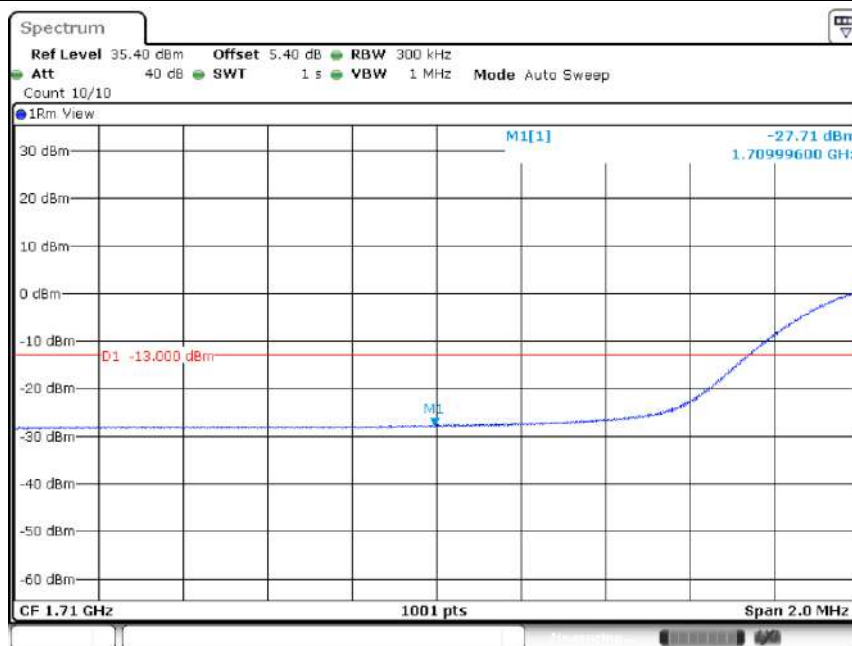
Date: 10 AUG 2020 23:40:36



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

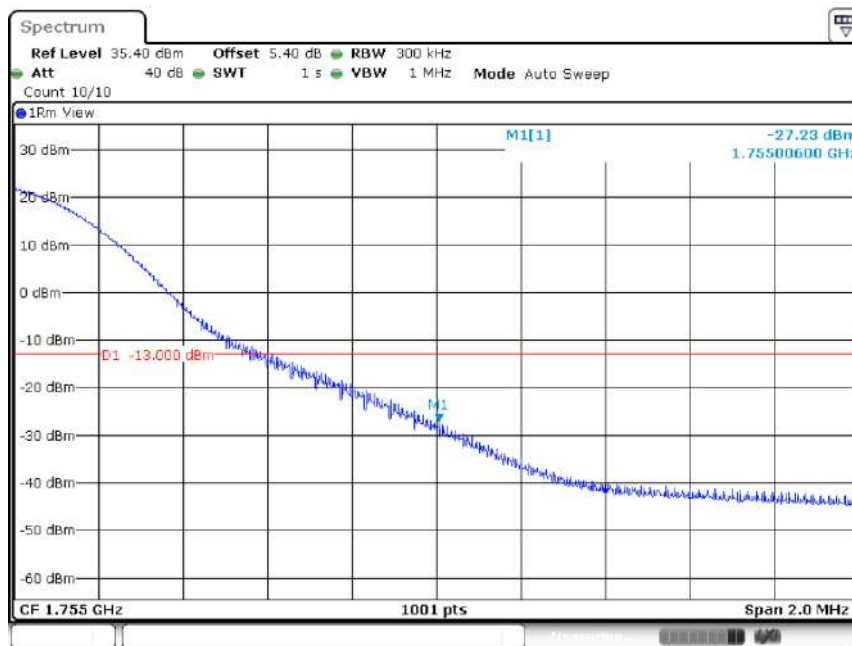
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

Band4-20MHz-64QAM-20050-100RB#0



Date: 10.AUG 2020 23:40:56

Band4-20MHz-64QAM-20300-1RB#99



Date: 10.AUG 2020 23:41:22



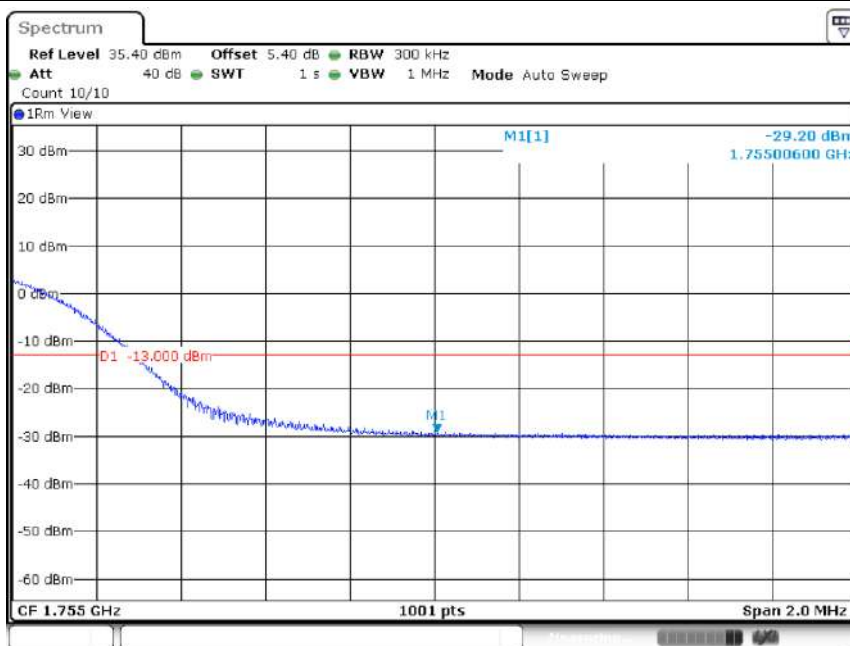
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

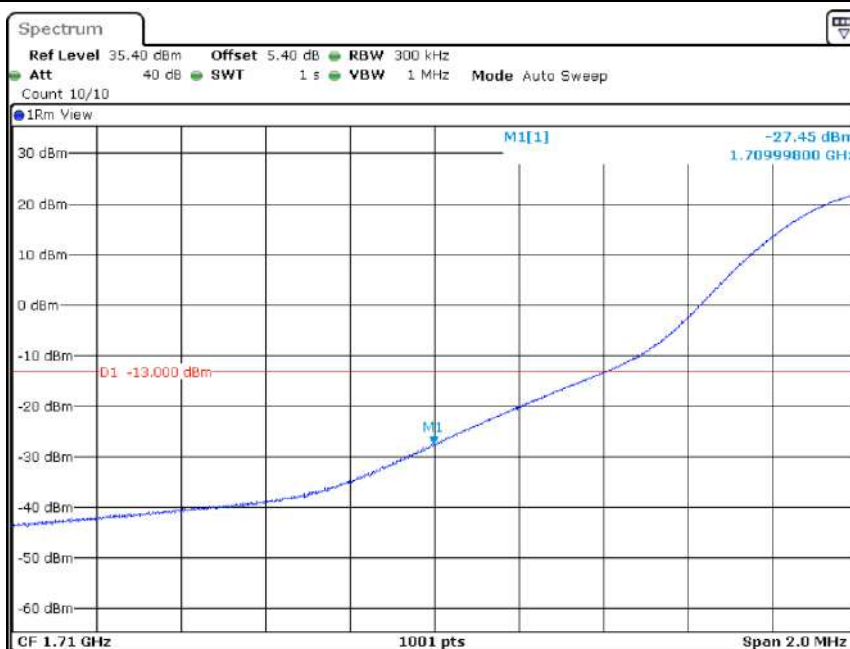
Member of the SGS Group (SGS SA)

Band4-20MHz-64QAM-20300-100RB#0



Date: 10.AUG.2020 23:41:43

Band4-20MHz-16QAM-20050-1RB#0



Date: 15.JUL.2020 16:26:39



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

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

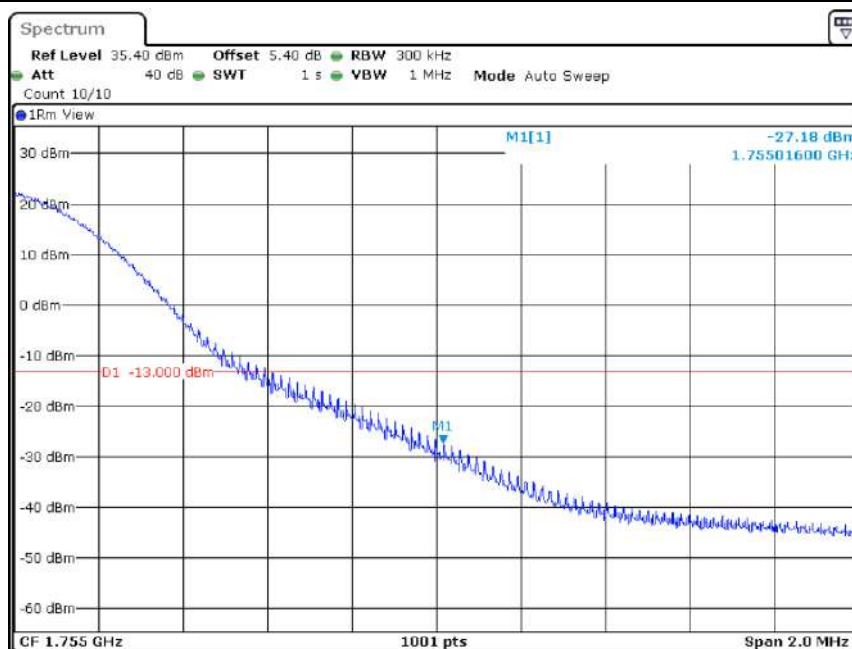
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-16QAM-20050-100RB#0



Date: 15 JUL 2020 16:27:20

Band4-20MHz-16QAM-20300-1RB#99



Date: 15 JUL 2020 16:28:06



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed on the back of the report, available on request or accessible at <http://www.sgs.com> and its 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 contract from their own responsibilities. The Company's responsibility is limited to the content of this document and does not extend, 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.

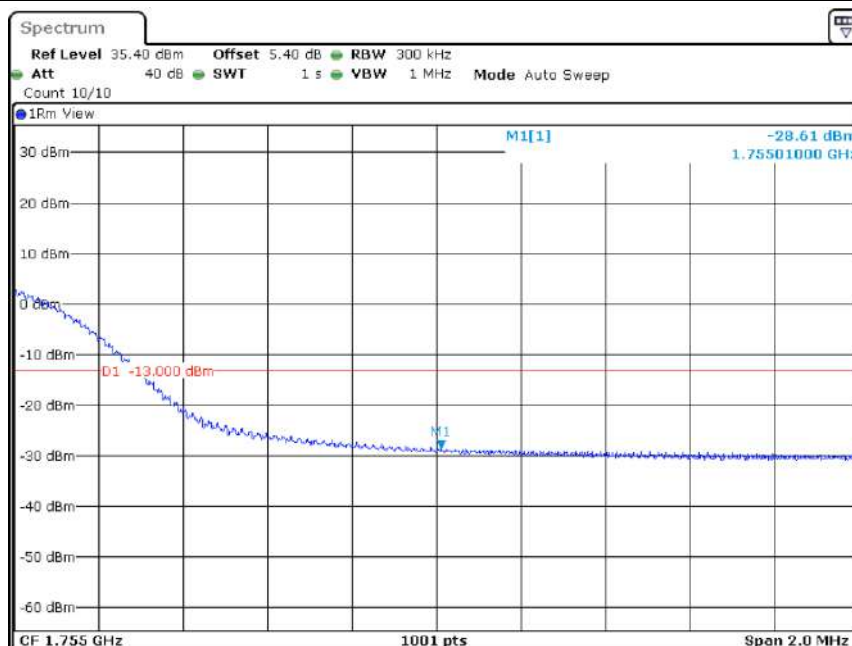
For any request for copy of testing / inspection reports / certificate, please contact us at telephone: (85-755) 8307 1443, or email: CN@pechenko@sgs.com.

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

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



Band4-20MHz-16QAM-20300-100RB#0



Date: 15 JUL 2020 16:28:47



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

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

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

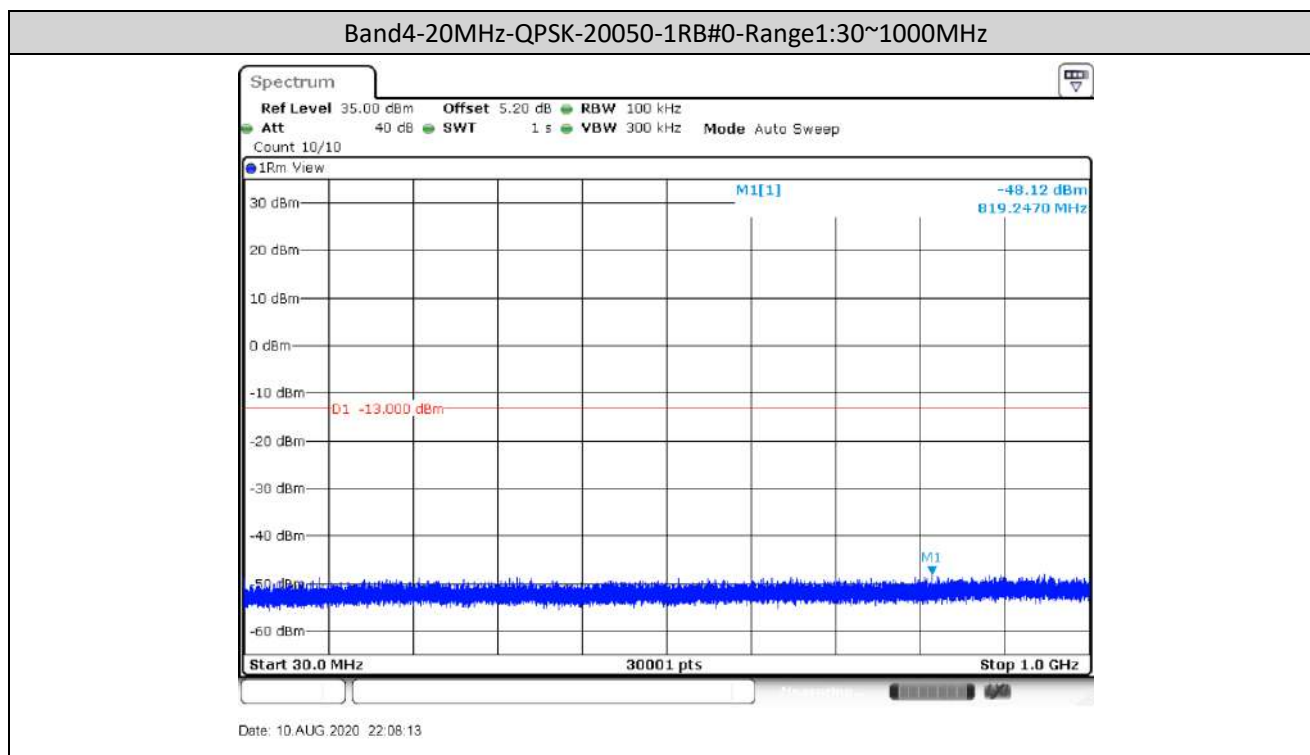
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots

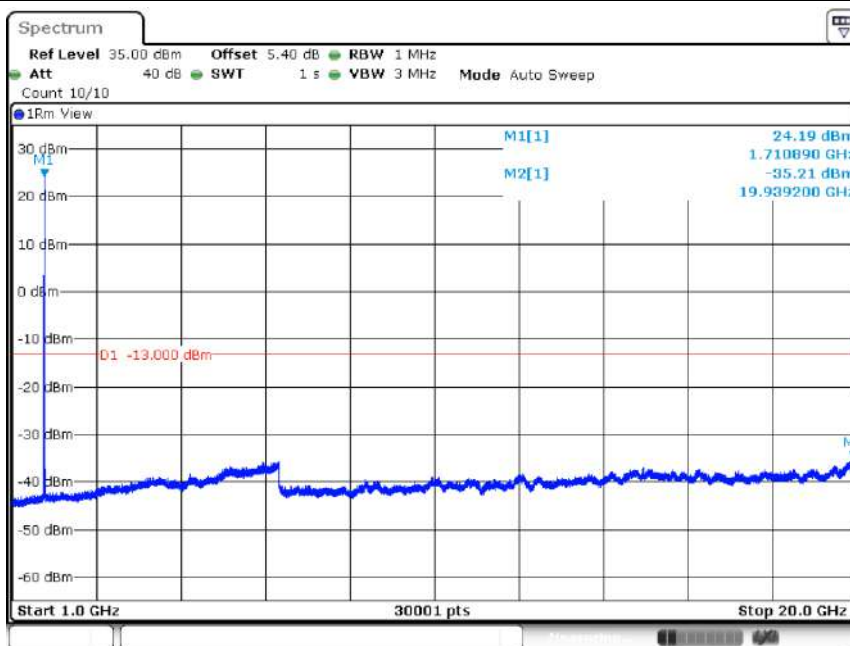


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

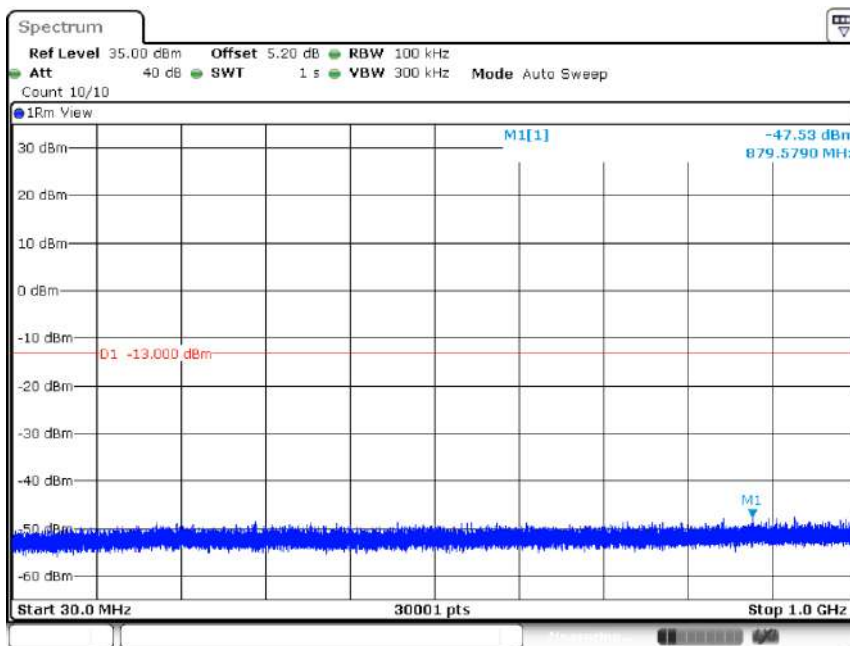
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 22:08:29

Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 10.AUG 2020 22:09:23



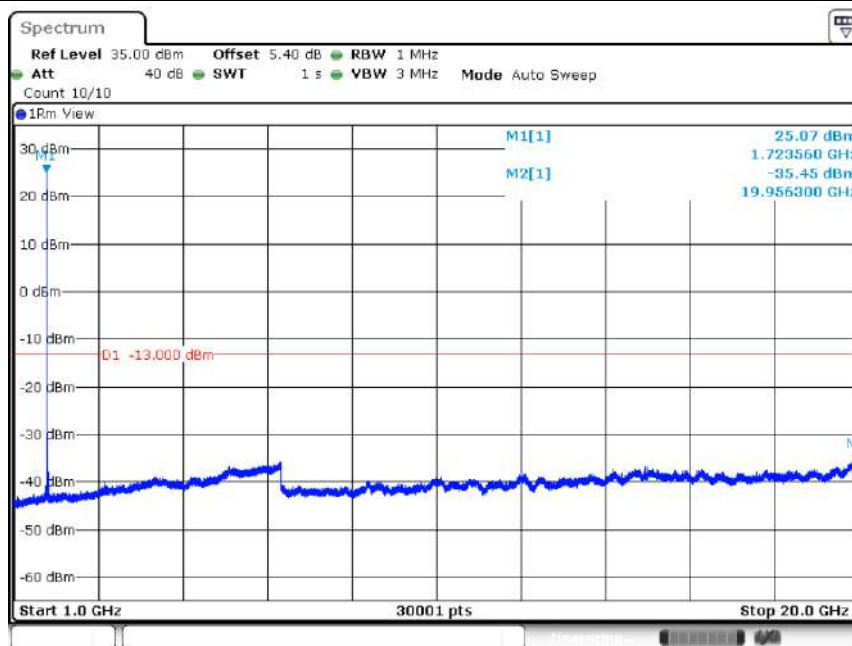
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

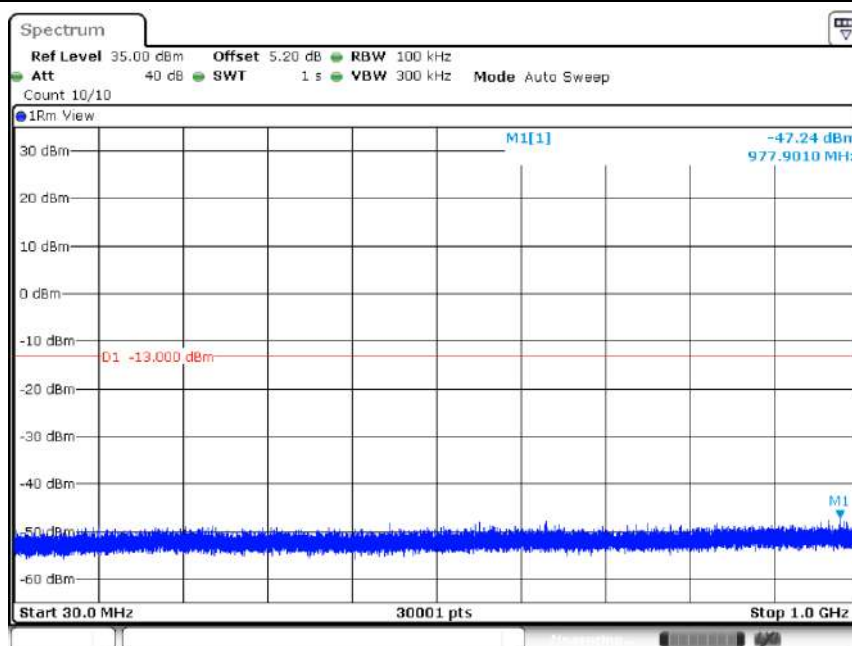
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 22:09:40

Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 10.AUG 2020 22:10:34

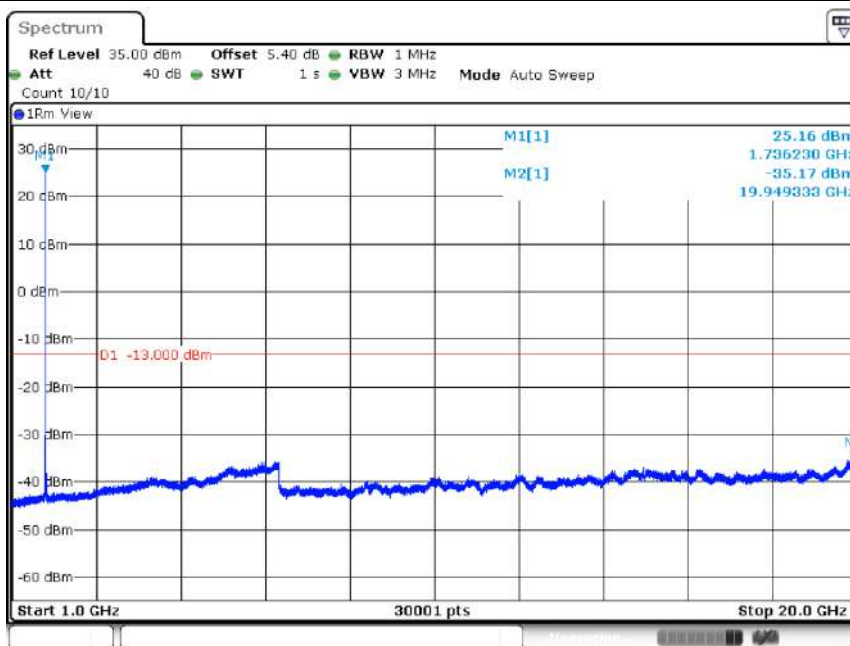


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

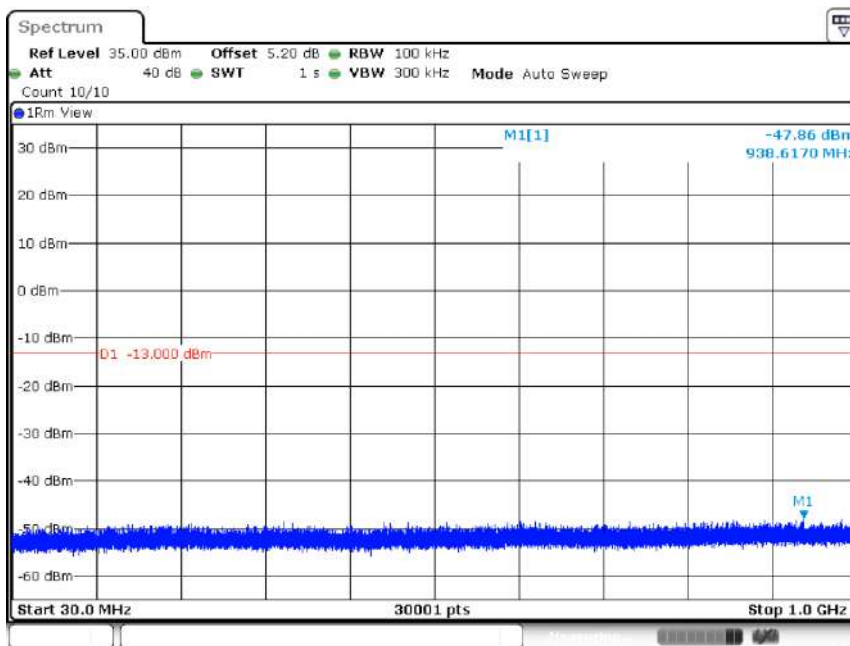
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 22:10:50

Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



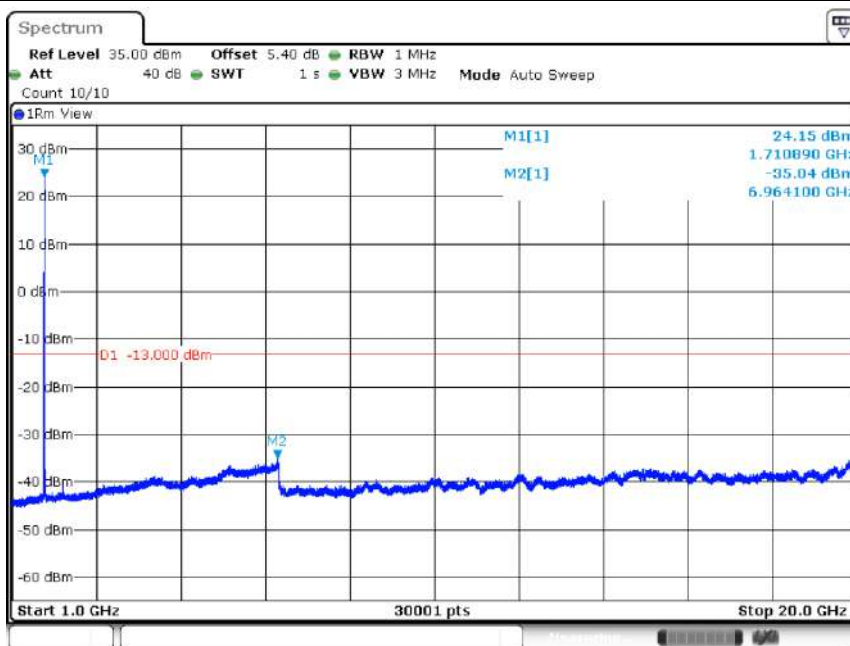
Date: 10.AUG 2020 23:42:07



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.

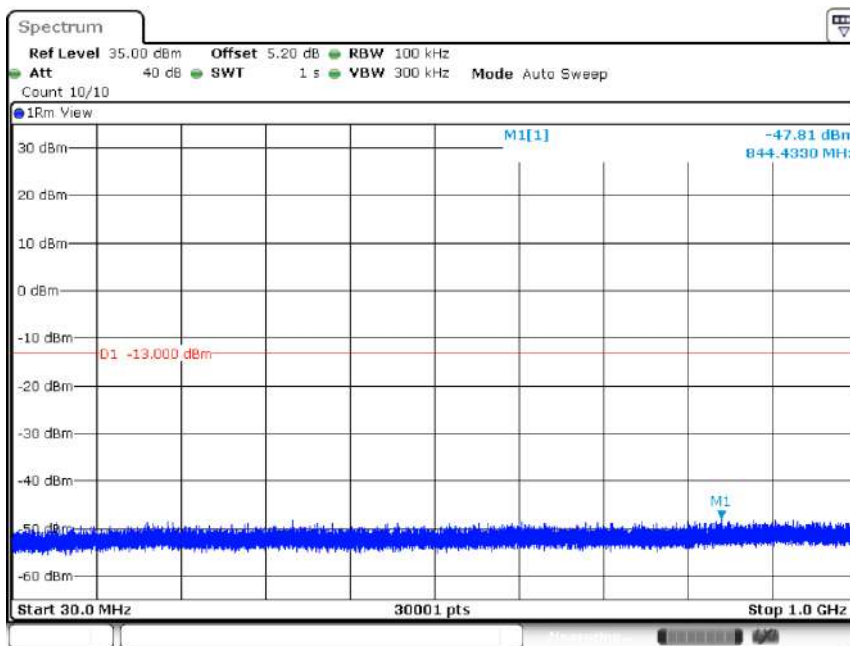
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 23:42:23

Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



Date: 10.AUG 2020 23:42:42



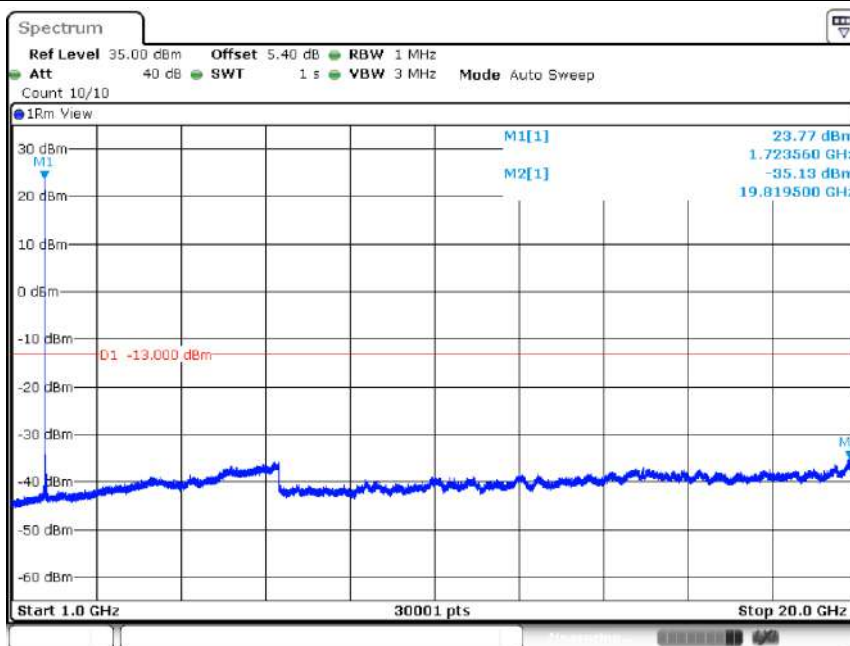
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

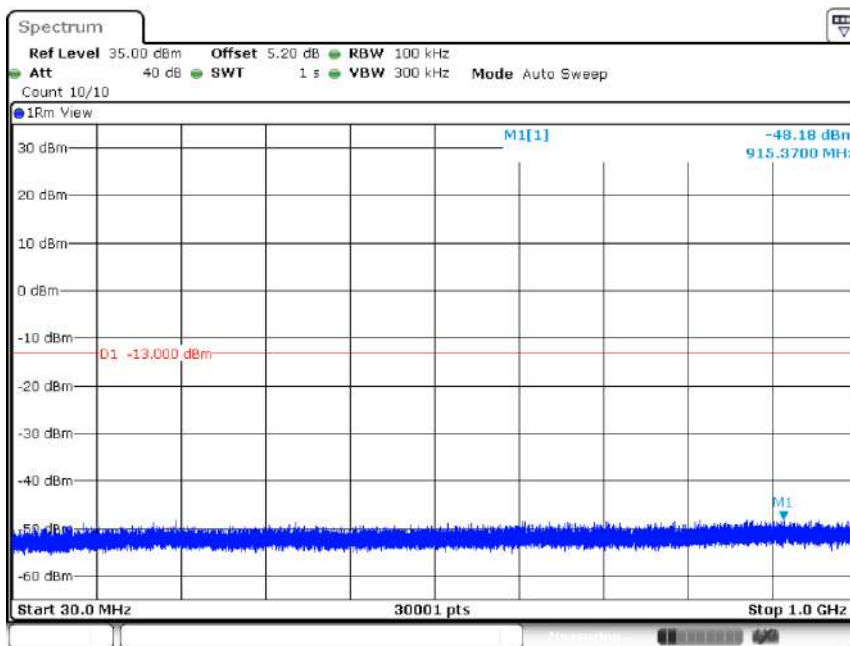
Member of the SGS Group (SGS SA)

Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 10.AUG.2020 23:42:58

Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



Date: 10.AUG.2020 23:43:17



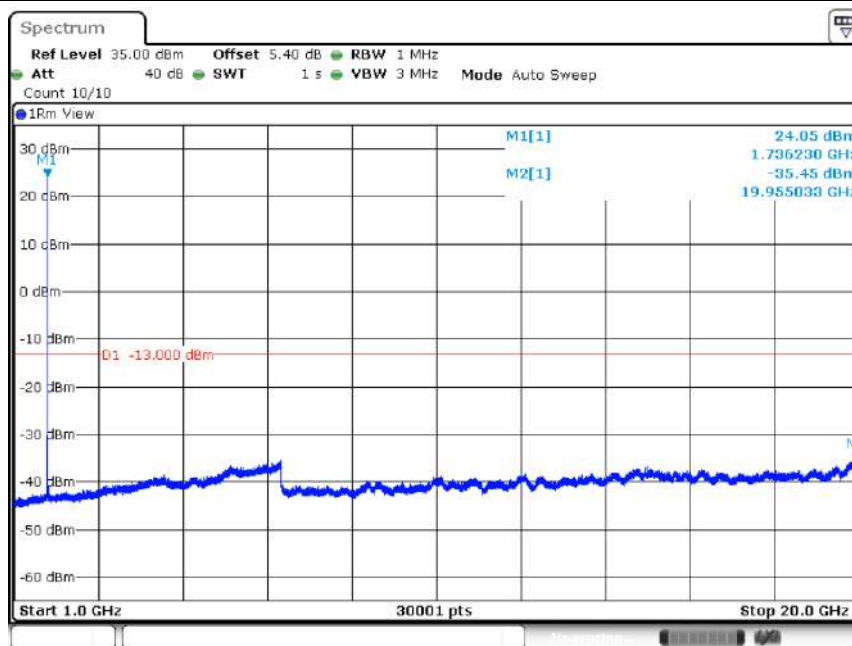
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com
中国·深圳·科技园中区M-10栋一厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

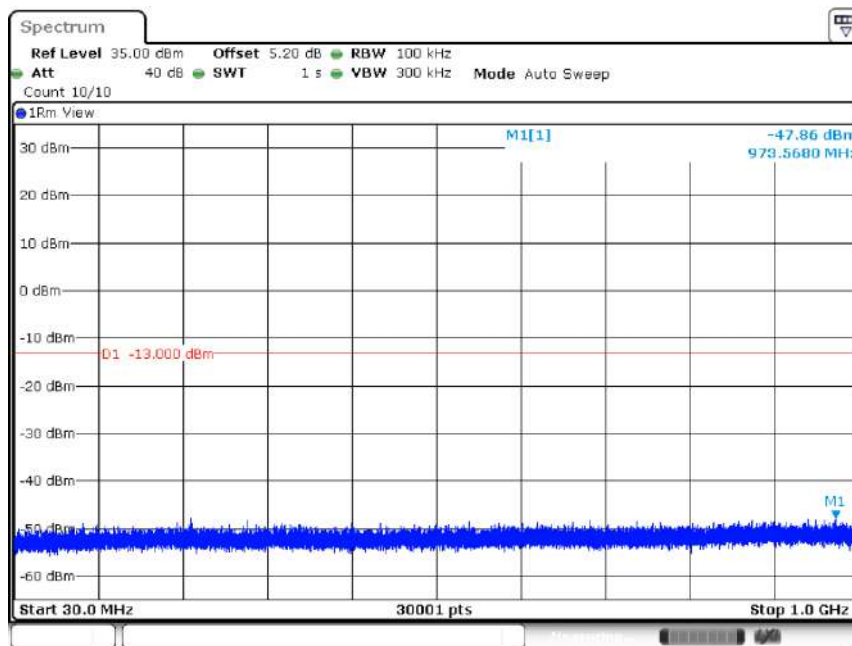
Member of the SGS Group (SGS SA)

Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 10.AUG.2020 23:43:34

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz

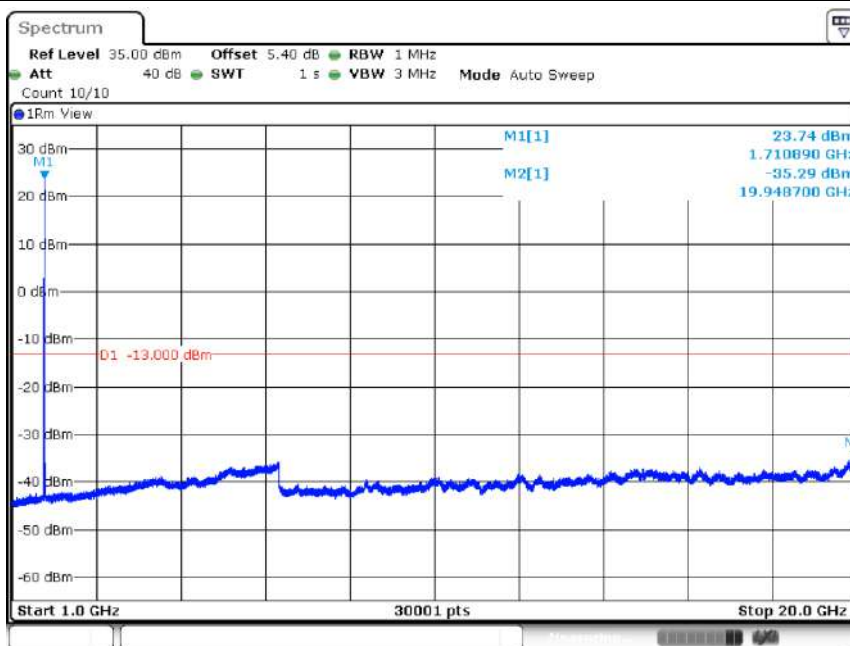


Date: 10.AUG.2020 22:08:48



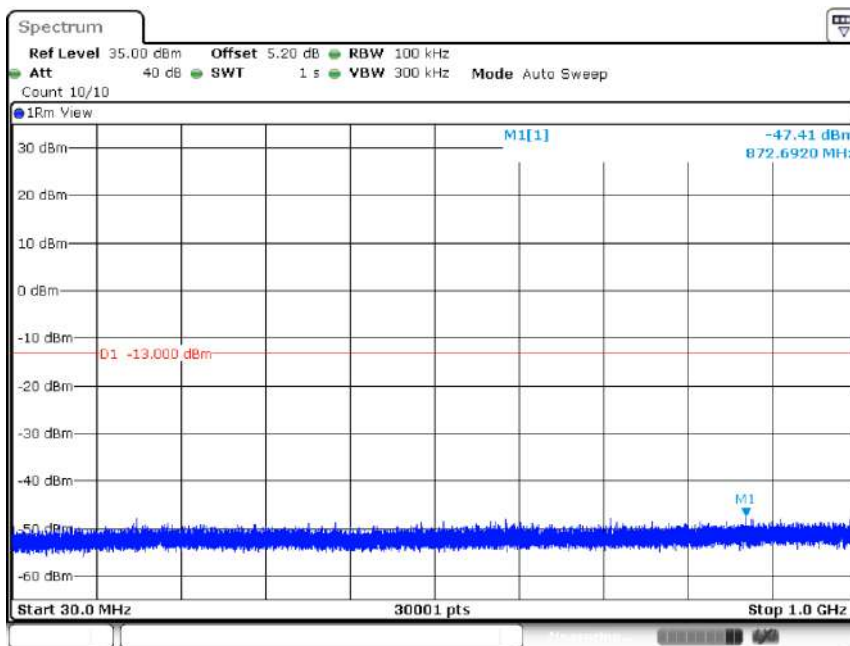
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 10.AUG.2020 22:09:04

Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



Date: 10.AUG.2020 22:09:58



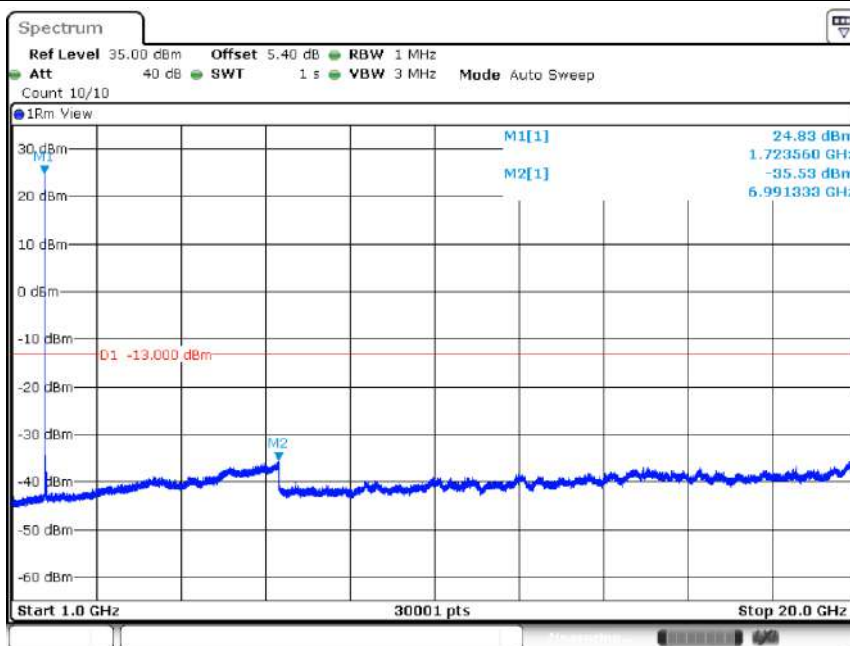
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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 and certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

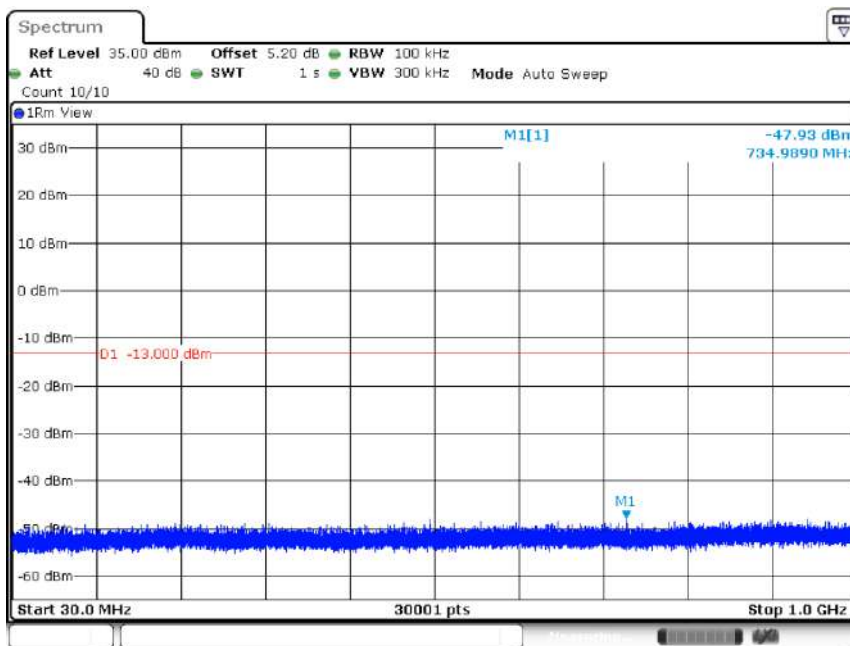
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 22:10:15

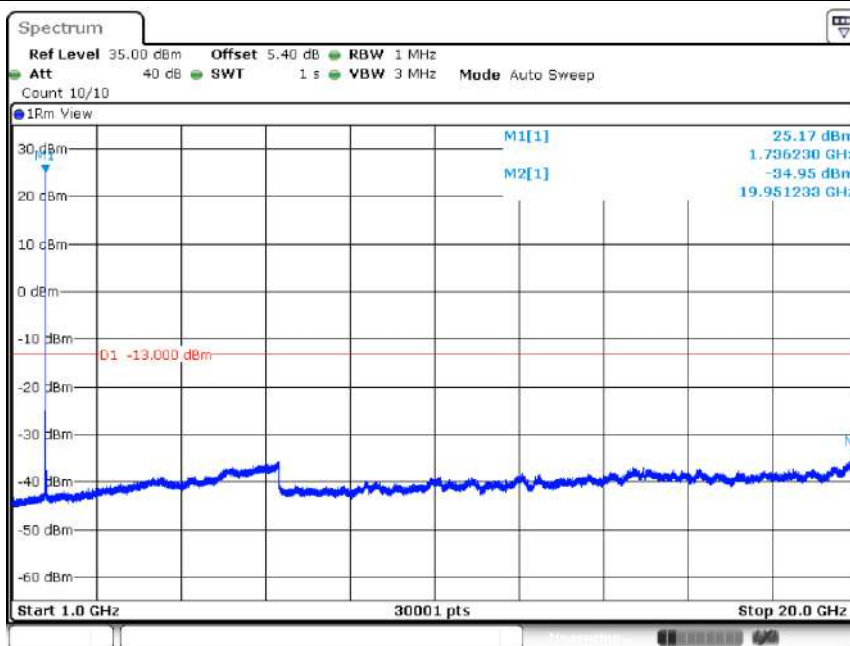
Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 10.AUG 2020 22:11:09



Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 10.AUG 2020 22:11:25



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
114.0062	-64.13	-13.00	51.13	251	70	Vertical
2703.1406	-36.79	-13.00	23.79	211	4	Vertical
3422.5141	-60.08	-13.00	47.08	185	324	Vertical
5133.5711	-50.69	-13.00	37.69	196	229	Vertical
6844.1281	-45.02	-13.00	32.02	232	165	Vertical
17996.4999	-39.98	-13.00	26.98	262	260	Vertical
44.7932	-64.63	-13.00	51.63	174	3	Horizontal
244.8657	-68.61	-13.00	55.61	185	3	Horizontal
2695.5391	-35.44	-13.00	22.44	196	4	Horizontal
5133.0711	-55.05	-13.00	42.05	231	292	Horizontal
6844.6282	-48.77	-13.00	35.77	262	98	Horizontal
16376.9459	-43.43	-13.00	30.43	251	228	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
111.9206	-64.61	-13.00	51.61	231	194	Vertical
2697.9396	-36.69	-13.00	23.69	152	9	Vertical
3447.0149	-59.14	-13.00	46.14	231	3	Vertical
5170.5724	-52.98	-13.00	39.98	262	194	Vertical
6894.1298	-45.94	-13.00	32.94	258	3	Vertical
17996.9999	-39.00	-13.00	26.00	294	261	Vertical
42.7076	-63.81	-13.00	50.81	171	293	Horizontal
2701.5403	-35.61	-13.00	22.61	185	69	Horizontal
3447.5149	-61.30	-13.00	48.30	196	69	Horizontal
5170.5724	-59.22	-13.00	46.22	231	293	Horizontal
6894.1298	-48.77	-13.00	35.77	262	101	Horizontal
16389.4463	-43.70	-13.00	30.70	264	5	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
111.3386	-65.37	-13.00	52.37	258	288	Vertical
2695.1390	-36.63	-13.00	23.63	196	120	Vertical
3472.0157	-53.08	-13.00	40.08	174	0	Vertical
5208.0736	-55.15	-13.00	42.15	181	0	Vertical
6944.6315	-46.92	-13.00	33.92	193	0	Vertical
17992.9998	-39.63	-13.00	26.63	231	92	Vertical
44.4537	-64.50	-13.00	51.50	178	100	Horizontal
2699.5399	-35.50	-13.00	22.50	196	4	Horizontal
3472.0157	-57.15	-13.00	44.15	231	261	Horizontal
5208.5736	-60.69	-13.00	47.69	252	261	Horizontal
6944.1315	-52.55	-13.00	39.55	154	100	Horizontal
16396.9466	-43.71	-13.00	30.71	165	261	Horizontal

Remark:

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



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

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

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

Or email: CN.Doccheck@sgs.com
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com
中国·深圳·科技园中区M-10楼一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-11.00	-0.006395	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-8.20	-0.004767	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.40	-0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-4.80	-0.002771	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-1.20	-0.000688	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	3.30	0.001891	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	6.50	0.003779	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-9.00	-0.005233	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	6.40	0.003694	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	6.20	0.003579	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-8.30	-0.004791	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-4.50	-0.002579	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-5.70	-0.003266	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-4.80	-0.002791	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	2.80	0.001628	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-6.40	-0.003721	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-9.40	-0.005426	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-7.20	-0.004156	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	3.60	0.002063	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	3.00	0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-7.90	-0.004527	±2.5	PASS



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

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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	6.90	0.004012	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	7.00	0.004070	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-8.80	-0.005116	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-9.90	-0.005756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-6.50	-0.003779	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-3.30	-0.001919	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	6.00	0.003488	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-4.40	-0.002558	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	4.90	0.002849	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-9.60	-0.005541	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-10.00	-0.005772	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-8.90	-0.005137	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.60	-0.001501	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-3.50	-0.002020	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	2.10	0.001212	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	6.00	0.003463	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-5.20	-0.002980	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-4.60	-0.002636	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-6.60	-0.003782	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	1.90	0.001089	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-4.60	-0.002636	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	2.40	0.001375	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-4.80	-0.002791	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	0.70	0.000407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-7.10	-0.004128	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	0.20	0.000116	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-1.90	-0.001105	±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 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



Band4	20MHz	64QAM	20050	100RB#0	NV	40	-6.90	-0.004012	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	-10.00	-0.005814	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-5.00	-0.002886	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	-4.40	-0.002540	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	6.80	0.003925	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	2.20	0.001270	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	6.20	0.003579	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-11.00	-0.006349	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	3.80	0.002178	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	0.30	0.000172	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	0.70	0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	2.10	0.001203	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-6.90	-0.003954	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-8.70	-0.004986	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	0.60	0.000349	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	6.20	0.003605	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-10.20	-0.005930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-1.90	-0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-2.40	-0.001395	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	1.50	0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	1.40	0.000814	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-1.00	-0.000581	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-5.60	-0.003232	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	6.80	0.003925	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	3.90	0.002251	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	6.80	0.003925	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-1.60	-0.000924	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	7.50	0.004329	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-3.00	-0.001732	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	3.20	0.001847	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-9.40	-0.005426	±2.5	PASS



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

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

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

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



Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-9.60	-0.005501	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	5.20	0.002980	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	4.10	0.002350	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	3.70	0.002120	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-6.70	-0.003840	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-8.60	-0.004928	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-1.50	-0.000860	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-4.00	-0.002292	±2.5	PASS

The End

