

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-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

CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	4
	TEST RESULT	4
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 Band = LTE_4 _TM1	99
7.1.1	Test Channel = Low Channel	99
7.2	Test Band = LTE_4 _TM1	100
7.2.1	Test Channel = Low Channel	100
7.3	Test Band = LTE_4 _TM1	101
7.3.1	Test Channel = Middle Channel	101
7.4	Test Band = LTE_4 _TM1	102
7.4.1	Test Channel = Middle Channel	102
7.5	Test Band = LTE_4 _TM1	103
7.5.1	Test Channel = High Channel	103



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

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



7.6	Test Band = LTE_4_TM1	104
7.6.1	Test Channel = High Channel	104

8 FREQUENCY STABILITY.....105

8.1	FREQUENCY Vs VOLTAGE	105
-----	----------------------------	-----

8.2	FREQUENCY Vs TEMPERATURE	106
-----	--------------------------------	-----



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



1 Effective (Isotropic) Radiated Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.61	22.02	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.64	22.05	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.51	21.92	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.61	22.02	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.58	21.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.71	22.12	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.64	21.05	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.73	22.14	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.90	22.31	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.82	22.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.01	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.01	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.94	22.35	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.95	21.36	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.65	22.06	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.89	22.30	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.80	22.21	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.86	22.27	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.88	22.29	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.88	22.29	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.81	21.22	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.89	21.30	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.07	21.48	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.78	21.19	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.84	21.25	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.90	21.31	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.63	21.04	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.80	20.21	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.97	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.83	21.24	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.91	21.32	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.14	21.55	30.00	PASS



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

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



Band4	1.4MHz	16QAM	20175	3RB#1	22.08	21.49	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.98	21.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.11	20.52	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.97	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.04	21.45	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.02	20.43	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.73	21.14	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.77	21.18	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.76	21.17	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.77	20.18	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.59	20.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.59	20.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.50	19.91	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	20.51	19.92	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	20.53	19.94	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	20.66	20.07	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.56	18.97	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.65	20.06	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.84	20.25	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.79	20.20	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.99	20.40	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	20.94	20.35	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	20.85	20.26	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.91	19.32	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.57	19.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.82	20.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.78	20.19	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.80	20.21	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	20.86	20.27	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.84	20.25	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.80	19.21	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.58	21.99	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.50	21.91	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.78	22.19	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.72	21.13	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.78	21.19	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.77	21.18	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.60	21.01	30.00	PASS



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

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

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

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



Band4	3MHz	QPSK	20175	1RB#0	22.97	22.38	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.90	22.31	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.68	22.09	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.98	21.39	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.92	21.33	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.91	21.32	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.91	21.32	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.68	22.09	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.71	22.12	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.72	22.13	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.71	21.12	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.65	21.06	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.70	21.11	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.61	21.02	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.80	21.21	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.66	21.07	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.45	20.86	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.85	20.26	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.77	20.18	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.91	20.32	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.70	20.11	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.63	21.04	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.74	21.15	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.32	20.73	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.03	20.44	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.05	20.46	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.13	20.54	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.09	20.50	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.21	20.62	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.13	20.54	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.99	21.40	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.83	20.24	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.77	20.18	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.83	20.24	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.80	20.21	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.50	19.91	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.49	19.90	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.72	20.13	30.00	PASS



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

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



Band4	3MHz	64QAM	19965	8RB#0	19.72	19.13	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	19.74	19.15	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	19.69	19.10	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.54	18.95	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.94	20.35	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.81	20.22	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.60	20.01	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	19.94	19.35	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	19.84	19.25	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	19.90	19.31	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.87	19.28	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.65	20.06	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.71	20.12	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.62	20.03	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	19.65	19.06	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	19.60	19.01	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	19.65	19.06	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.55	18.96	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.60	22.01	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.55	21.96	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.78	22.19	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.73	21.14	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.78	21.19	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.68	21.09	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.66	21.07	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.90	22.31	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.75	22.16	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.51	21.92	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.89	21.30	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.96	21.37	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.76	21.17	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.85	21.26	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.61	22.02	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.59	22.00	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.75	22.16	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.65	21.06	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.70	21.11	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.85	21.26	30.00	PASS



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

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

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

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



Band4	5MHz	QPSK	20375	25RB#0	21.72	21.13	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.75	21.16	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.75	21.16	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.06	20.47	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.82	20.23	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.57	19.98	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.69	20.10	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.75	20.16	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.08	21.49	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.69	21.10	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.77	21.18	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.76	20.17	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.01	20.42	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.75	20.16	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.91	20.32	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.61	21.02	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.03	20.44	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.57	20.98	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.78	20.19	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.59	20.00	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.86	20.27	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.89	20.30	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.54	19.95	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.52	19.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.74	20.15	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	19.63	19.04	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	19.76	19.17	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	19.67	19.08	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.59	19.00	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.86	20.27	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.68	20.09	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.43	19.84	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	19.86	19.27	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	19.87	19.28	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	19.66	19.07	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.85	19.26	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.53	19.94	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.53	19.94	30.00	PASS



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

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

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

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



Band4	5MHz	64QAM	20375	1RB#24	20.70	20.11	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	19.65	19.06	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	19.70	19.11	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	19.80	19.21	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.62	19.03	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.83	22.24	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.85	22.26	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.85	22.26	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.77	21.18	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.75	21.16	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.73	21.14	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.77	21.18	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.80	22.21	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.88	22.29	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.71	22.12	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.96	21.37	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.98	21.39	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.79	21.20	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.89	21.30	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.83	22.24	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.80	22.21	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.91	22.32	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.85	21.26	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.92	21.33	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.90	21.31	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.87	21.28	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.48	20.89	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.56	20.97	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.40	20.81	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.83	20.24	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.85	20.26	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.85	20.26	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.86	20.27	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.79	21.20	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.22	21.63	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.65	21.06	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.02	20.43	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.07	20.48	30.00	PASS



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

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

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



Band4	10MHz	16QAM	20175	25RB#25	20.97	20.38	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.97	20.38	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.05	21.46	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.76	21.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.80	21.21	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.92	20.33	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.96	20.37	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.99	20.40	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.97	20.38	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.80	20.21	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.77	20.18	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.82	20.23	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	19.73	19.14	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	19.68	19.09	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	19.63	19.04	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.71	19.12	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.70	20.11	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.86	20.27	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.66	20.07	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	19.92	19.33	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	19.97	19.38	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	19.77	19.18	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.87	19.28	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.76	20.17	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.74	20.15	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.88	20.29	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	19.85	19.26	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	19.91	19.32	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	19.82	19.23	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.84	19.25	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.79	22.20	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.75	22.16	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.85	22.26	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.93	21.34	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.83	21.24	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.89	21.30	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.81	21.22	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.75	22.16	30.00	PASS



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

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



Band4	15MHz	QPSK	20175	1RB#38	22.62	22.03	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.71	22.12	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.93	21.34	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.92	21.33	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.70	21.11	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.83	21.24	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.10	22.51	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.75	22.16	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.93	22.34	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.77	21.18	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.70	21.11	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.81	21.22	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.86	21.27	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.35	20.76	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.23	20.64	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.55	20.96	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#0	20.87	20.28	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#18	20.83	20.24	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#37	20.96	20.37	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.91	20.32	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.12	21.53	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.14	21.55	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.08	21.49	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#0	20.89	20.30	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#18	20.92	20.33	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#37	20.71	20.12	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.89	20.30	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.74	21.15	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.25	20.66	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.24	20.65	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#0	20.90	20.31	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.79	20.20	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.00	20.41	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.81	20.22	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.72	20.13	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.71	20.12	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.76	20.17	30.00	PASS
Band4	15MHz	64QAM	20025	38RB#0	19.89	19.30	30.00	PASS



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

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

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

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



Band4	15MHz	64QAM	20025	38RB#18	19.79	19.20	30.00	PASS
Band4	15MHz	64QAM	20025	38RB#37	19.83	19.24	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.77	19.18	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.66	20.07	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.52	19.93	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.70	20.11	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#0	19.86	19.27	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#18	19.87	19.28	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#37	19.66	19.07	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.76	19.17	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.08	20.49	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.67	20.08	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.85	20.26	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#0	19.69	19.10	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#18	19.64	19.05	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#37	19.72	19.13	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.76	19.17	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.83	22.24	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.85	22.26	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.85	22.26	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.70	21.11	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.77	21.18	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.87	21.28	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.72	21.13	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.97	22.38	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.87	22.28	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.55	21.96	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.98	21.39	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.96	21.37	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.77	21.18	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.93	21.34	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.94	22.35	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.83	22.24	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.94	22.35	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.02	21.43	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.62	21.03	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.75	21.16	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.75	21.16	30.00	PASS



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

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

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

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



Band4	20MHz	16QAM	20050	1RB#0	21.44	20.85	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.35	20.76	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.29	20.70	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.79	20.20	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.76	20.17	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.81	20.22	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.78	20.19	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.55	20.96	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.23	21.64	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.81	21.22	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.00	20.41	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.98	20.39	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.84	20.25	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.87	20.28	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.69	21.10	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.32	20.73	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.16	20.57	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.20	20.61	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.90	20.31	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.78	20.19	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.75	20.16	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.75	20.16	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.85	20.26	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.76	20.17	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	19.63	19.04	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	19.70	19.11	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	19.80	19.21	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.67	19.08	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.94	20.35	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.79	20.20	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.51	19.92	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	19.88	19.29	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	19.89	19.30	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	19.68	19.09	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.91	19.32	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.93	20.34	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.74	20.15	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.94	20.35	30.00	PASS





Band4	20MHz	64QAM	20300	50RB#0	20.00	19.41	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	19.53	18.94	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	19.69	19.10	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.72	19.13	30.00	PASS

Remark:

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

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

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



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

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

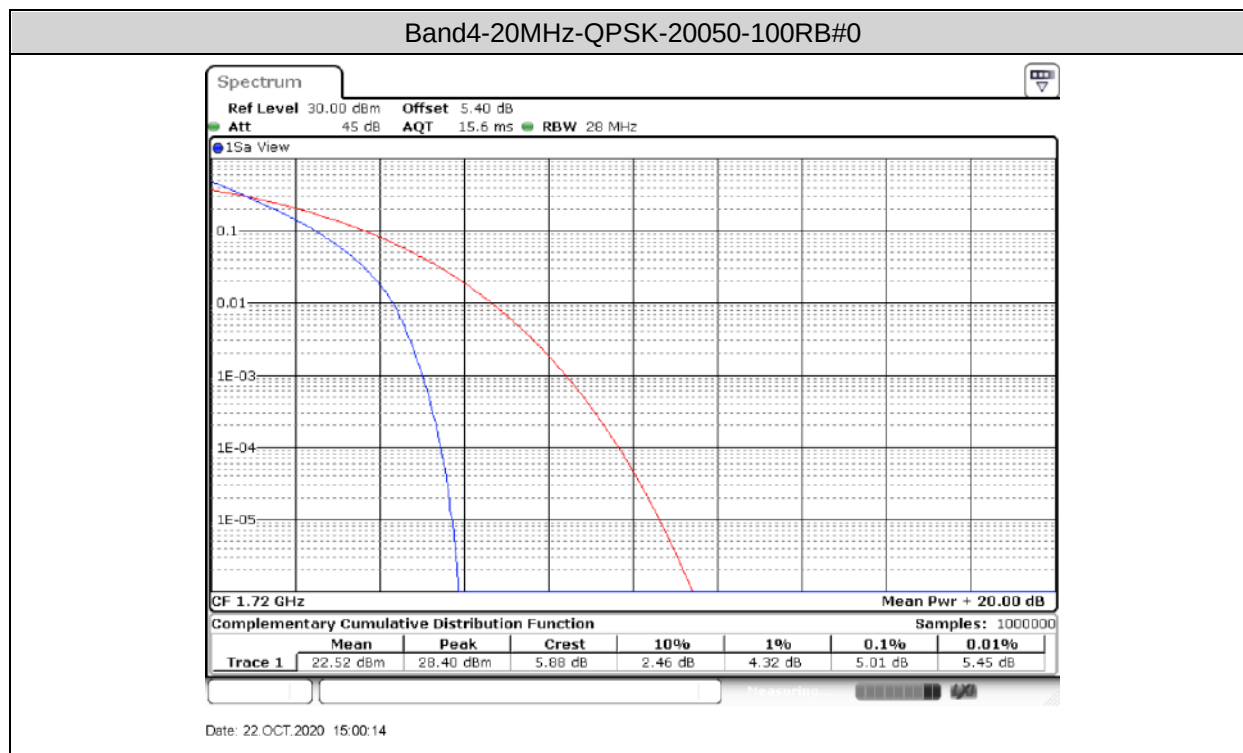
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2 Peak-to-Average Ratio (CCDF)

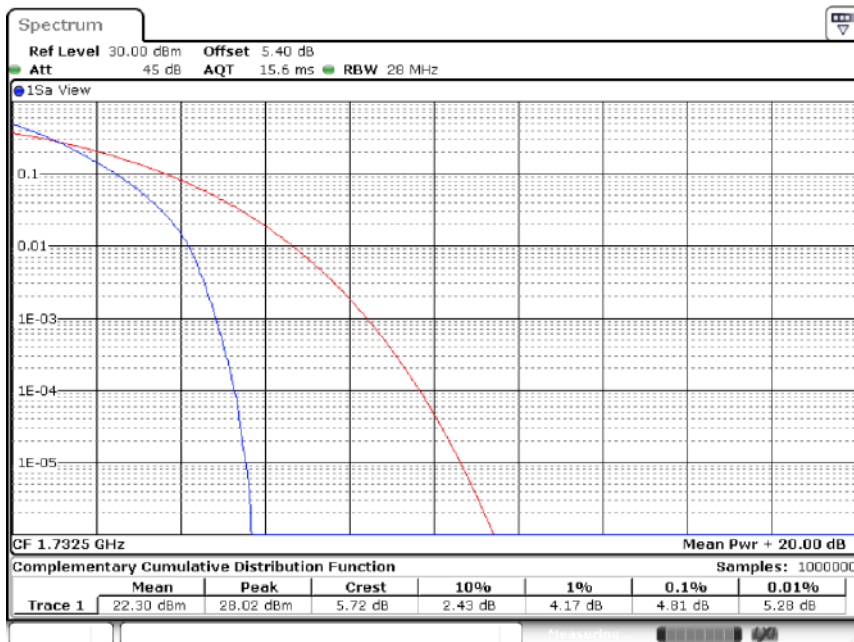
2.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.01	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.81	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.86	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.77	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.83	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.55	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.46	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.52	13	PASS

2.2 Test Plots

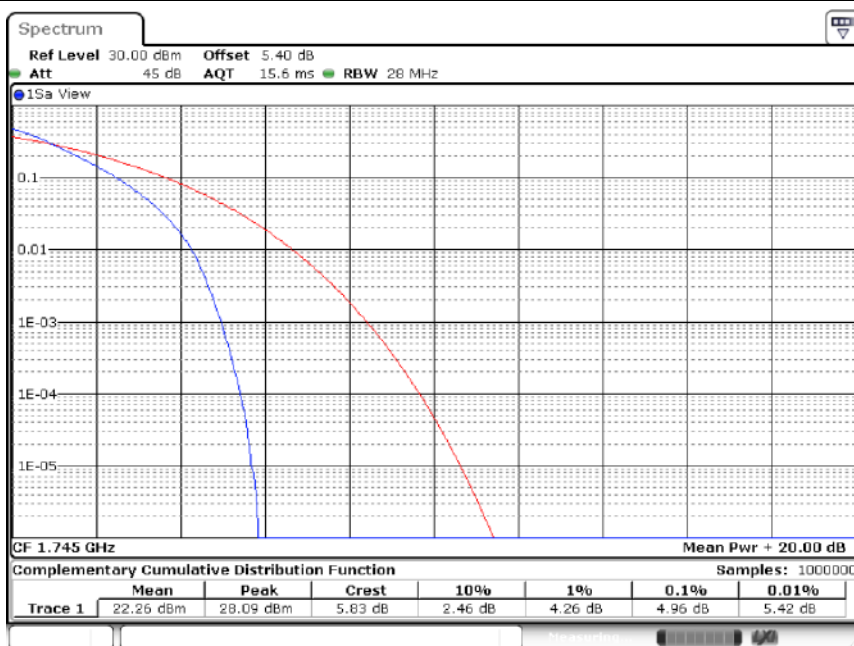


Band4-20MHz-QPSK-20175-100RB#0



Date: 22 OCT.2020 15:00:43

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



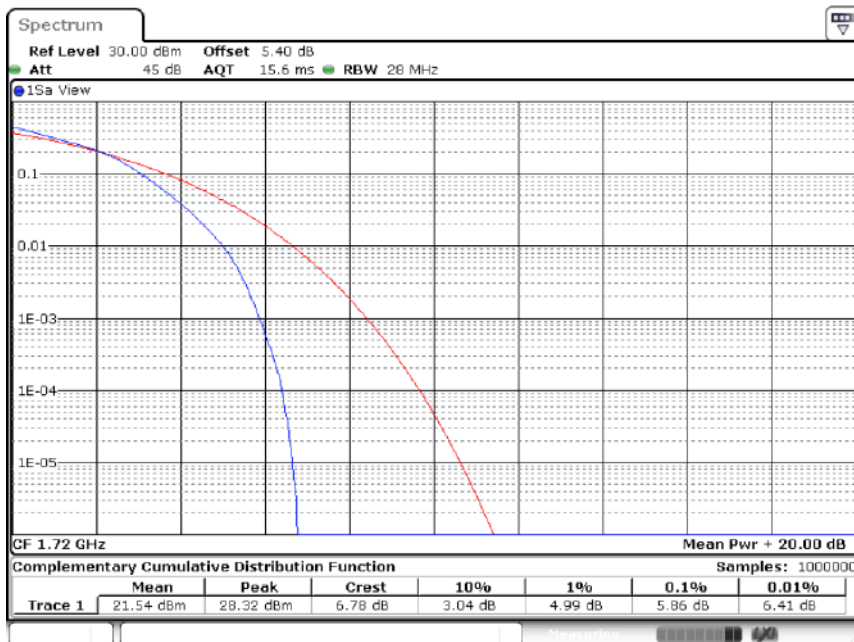
Date: 22 OCT.2020 15:01:12



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

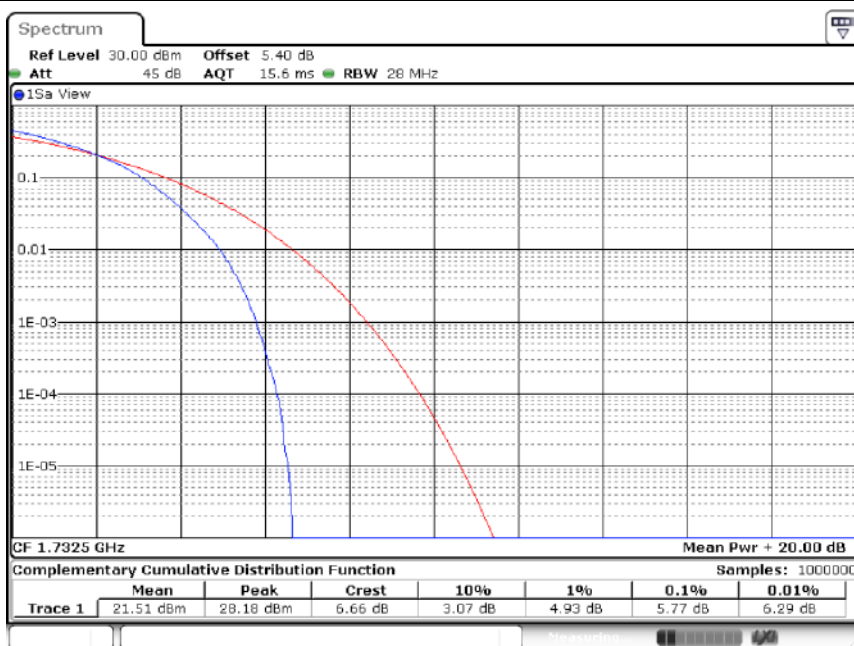
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

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



Date: 22 OCT.2020 15:00:29

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



Date: 22 OCT.2020 15:00:57



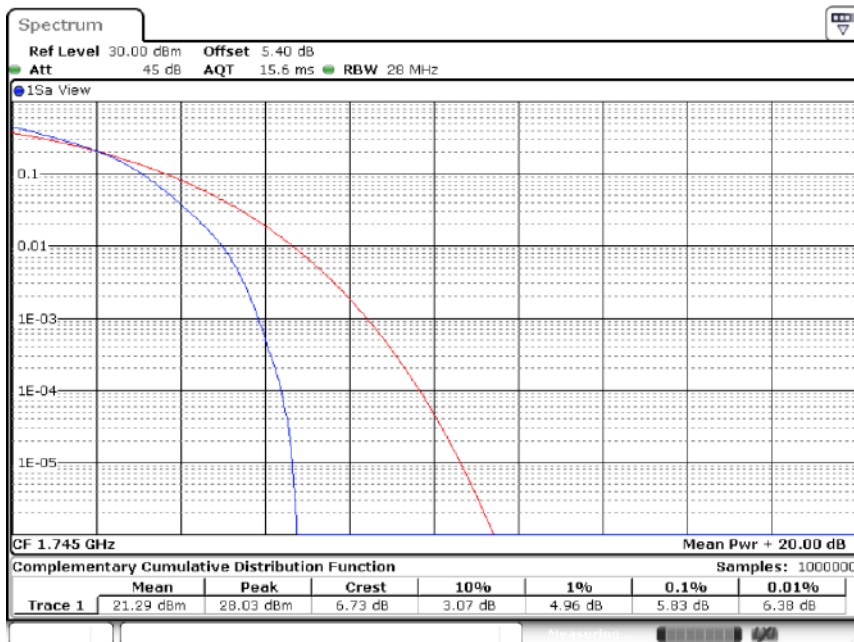
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

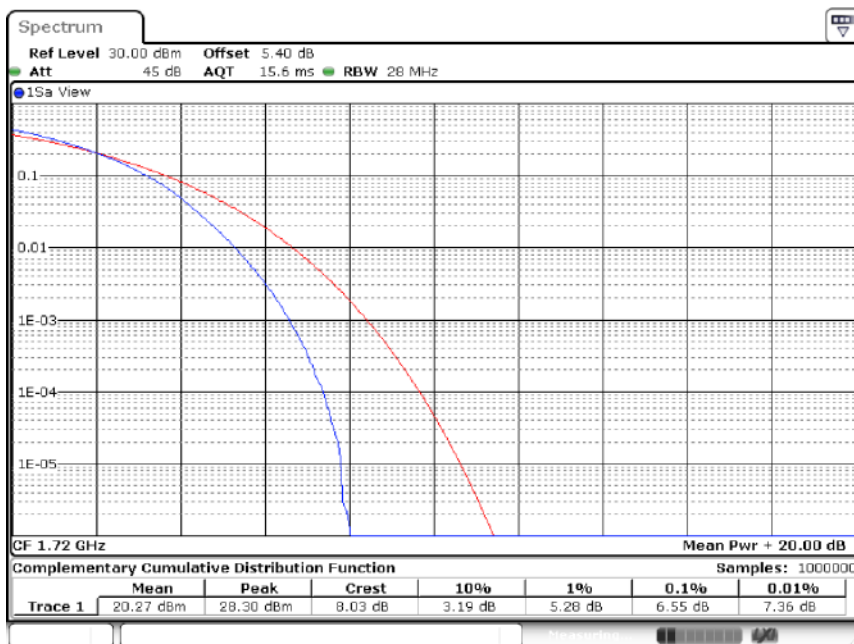
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22 OCT.2020 15:01:26

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



Date: 22 OCT.2020 16:49:22



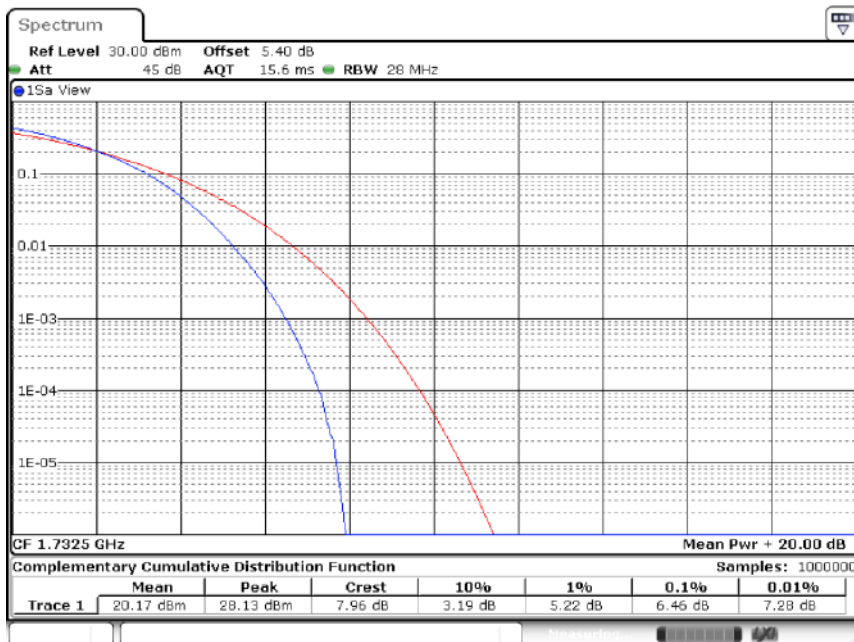
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

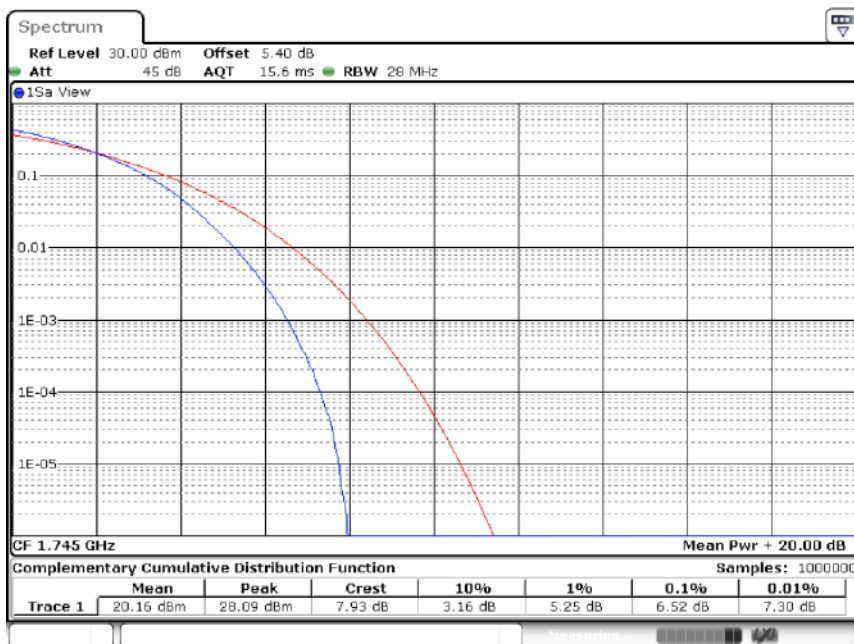
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22 OCT.2020 16:49:36

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



Date: 22 OCT.2020 16:49:50

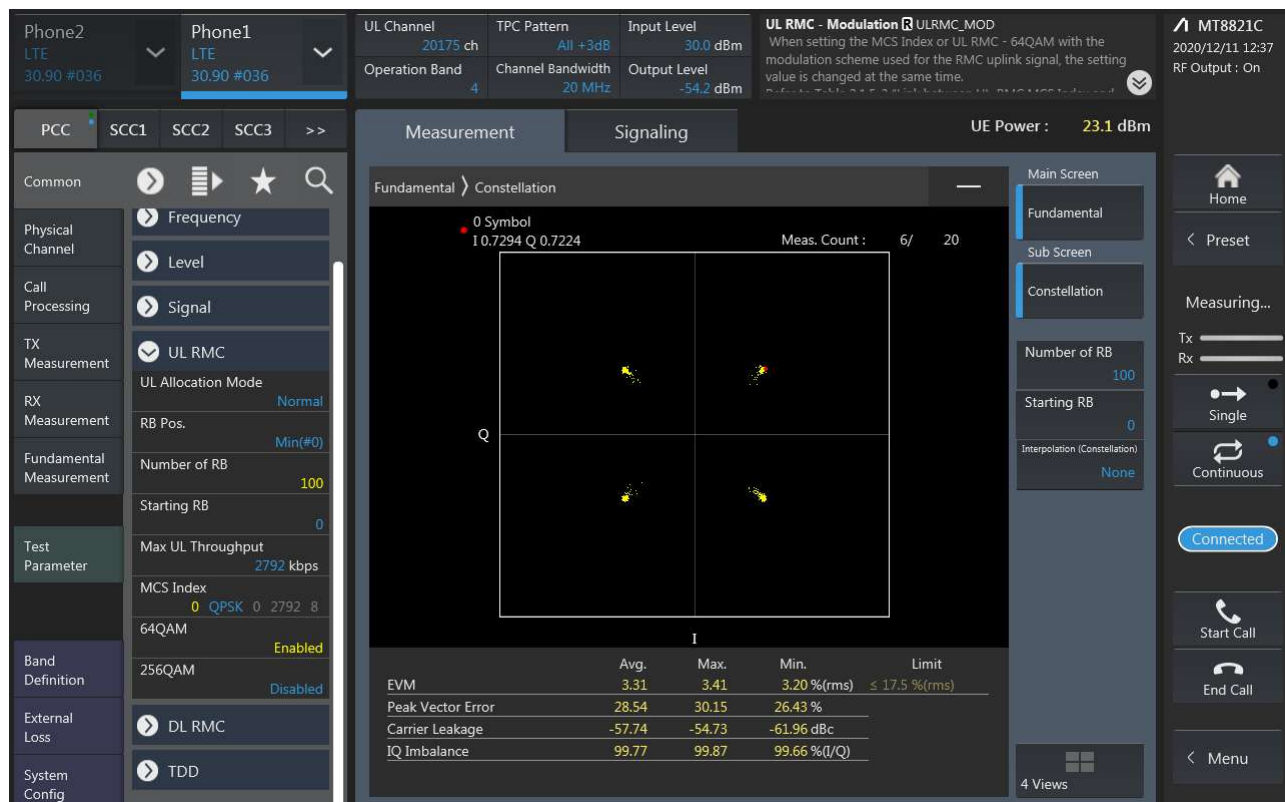




3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

3.1.1 Test Channel = MCH



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

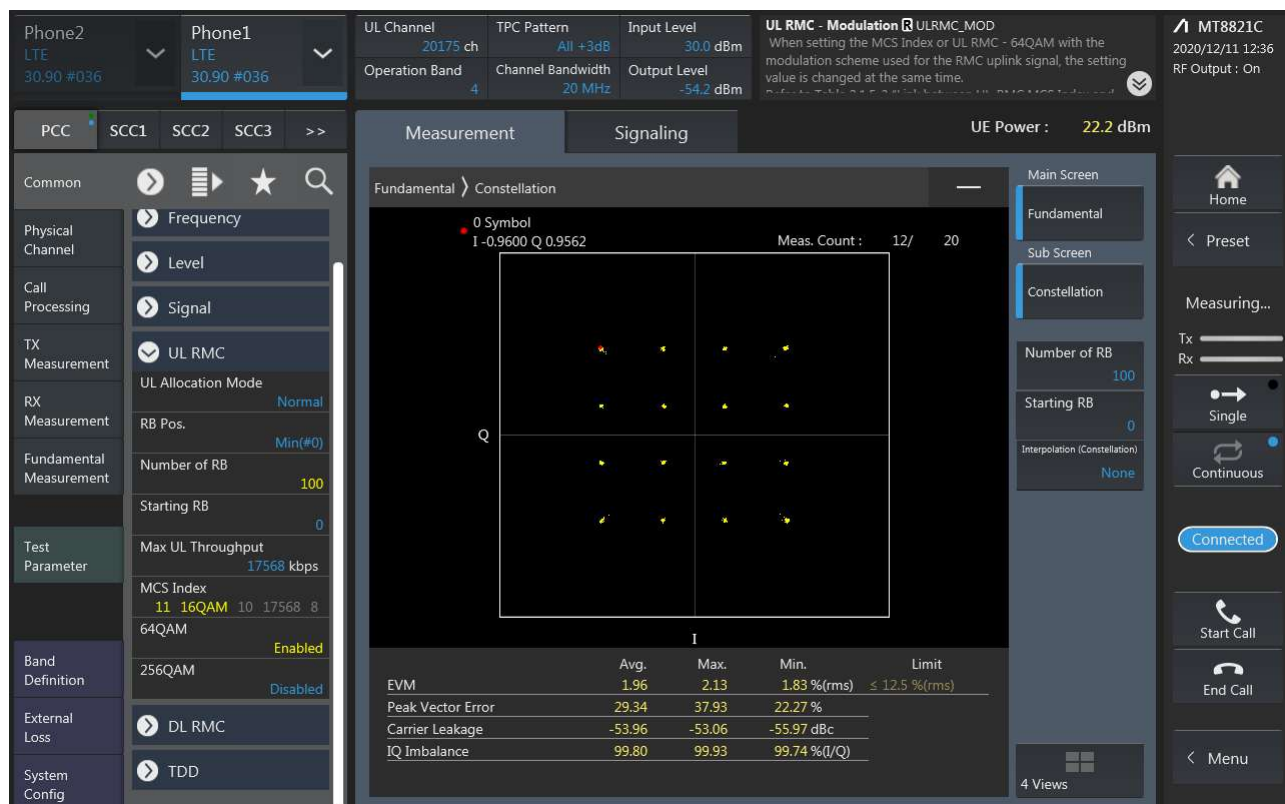
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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



3.2 Test Mode = LTE /TM2 20MHz

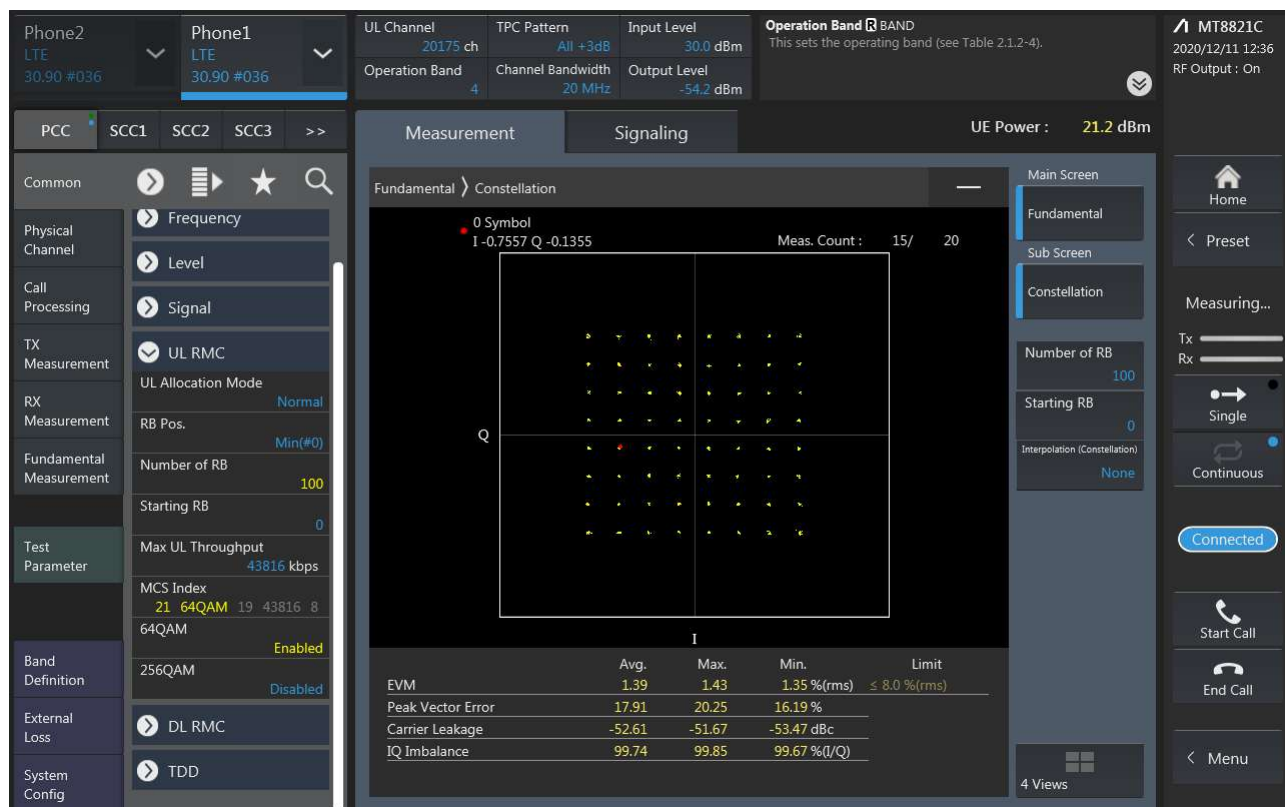
3.2.1 Test Channel = MCH





3.3 Test Mode = LTE /TM3 20MHz

3.3.1 Test Channel = MCH





4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.091	1.293	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.097	1.281	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.278	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.094	1.284	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.278	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.097	1.293	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.266	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.296	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	3.006	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.994	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.982	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.970	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.976	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.970	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.970	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.697	2.982	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.900	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.950	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.930	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.960	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.910	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.920	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.920	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.911	9.680	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.891	9.700	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.700	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.680	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	16QAM	20175	50RB#0	8.911	9.720	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.760	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.700	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.911	9.580	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.660	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.670	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.397	14.730	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.760	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.820	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.640	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.730	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.457	14.730	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.397	14.700	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.397	14.760	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.400	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.782	19.240	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.360	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.480	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.782	19.320	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.400	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.520	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.782	19.360	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.400	PASS



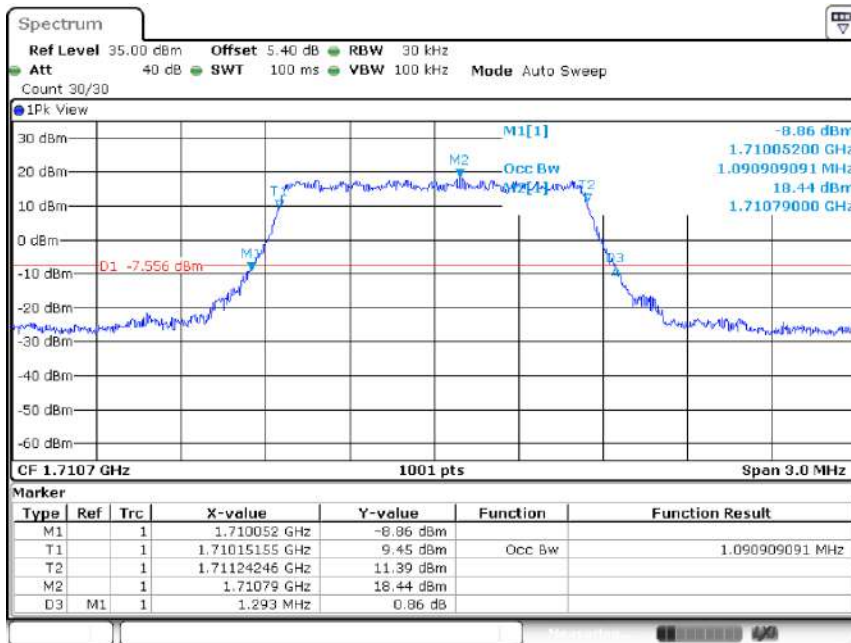
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

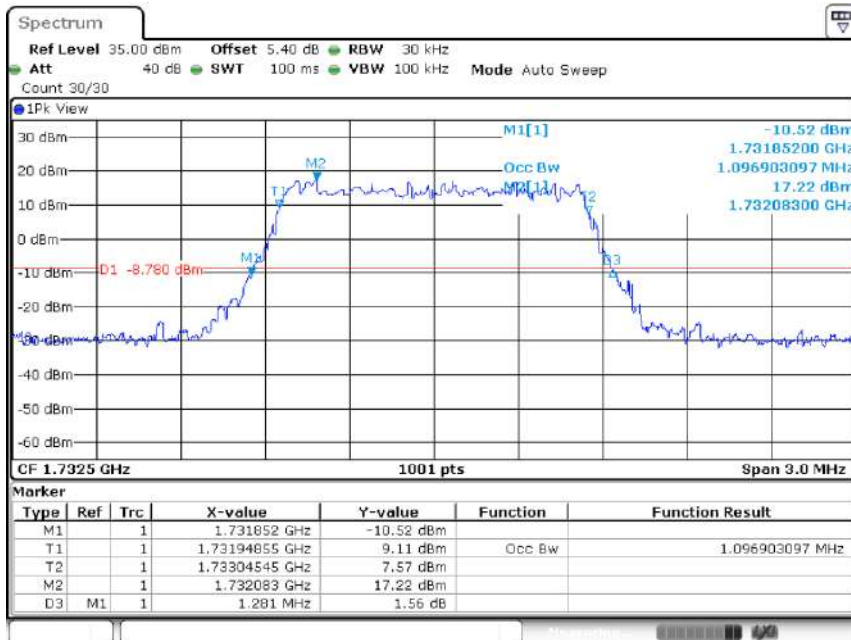
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.2 Test Plots

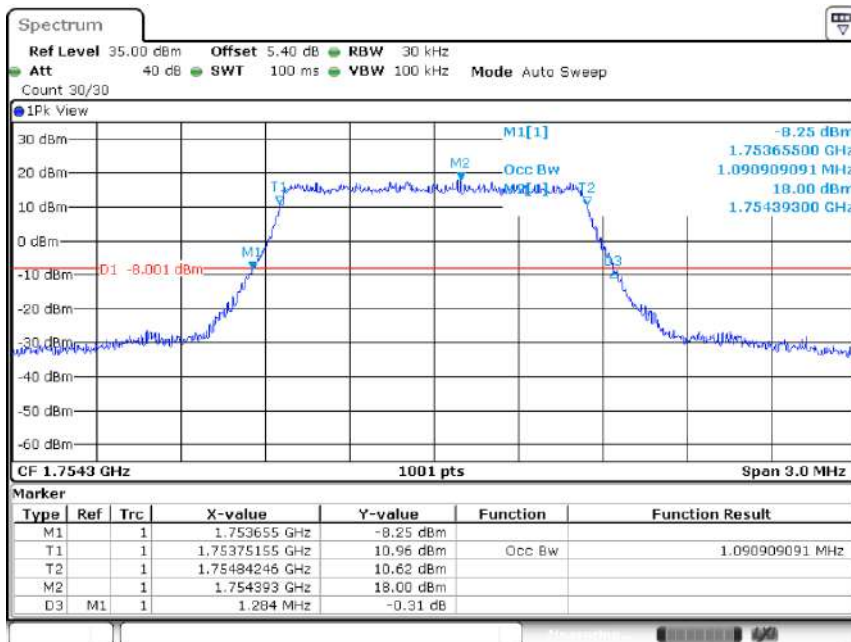
Band4-1.4MHz-QPSK-19957-6RB#0-1.091



Band4-1.4MHz-QPSK-20175-6RB#0-1.097

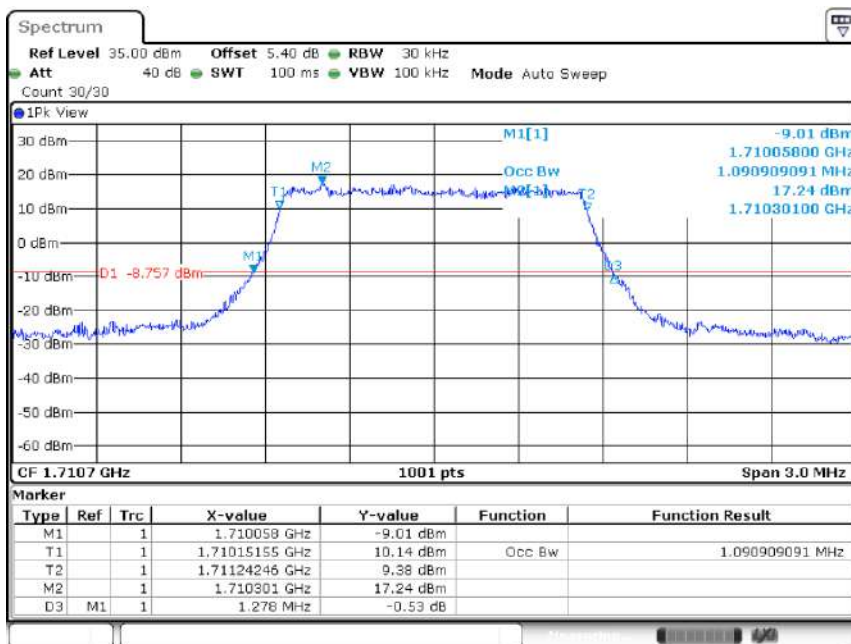


Band4-1.4MHz-QPSK-20393-6RB#0-1.091



Date: 22.OCT.2020 14:31:19

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



Date: 22.OCT.2020 14:30:30

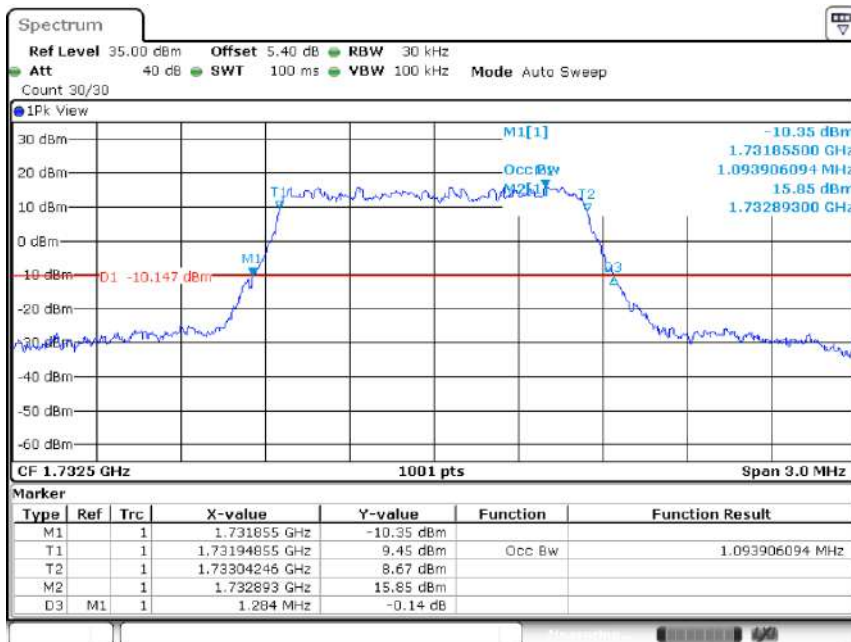


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

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

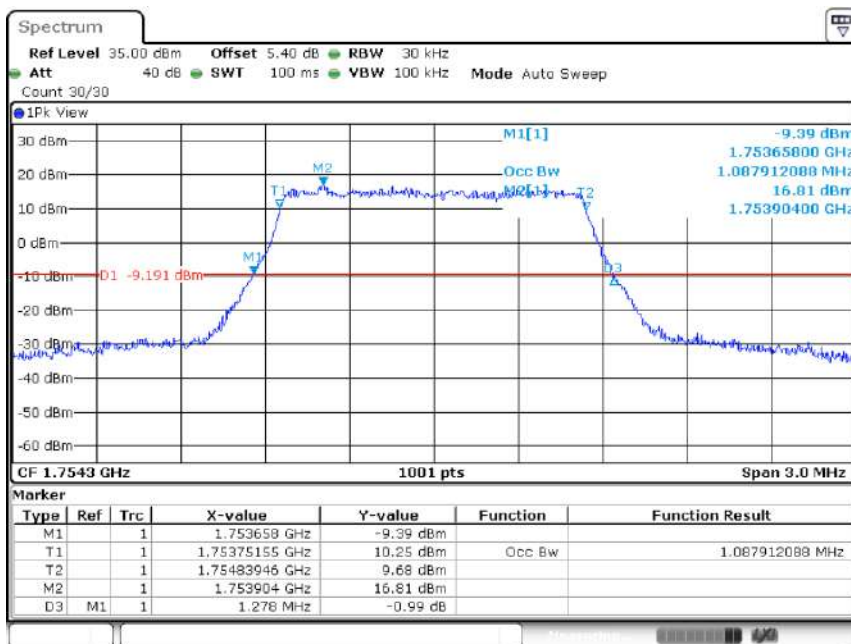
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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-16QAM-20175-6RB#0-1.094



Date: 22.OCT.2020 14:31:02

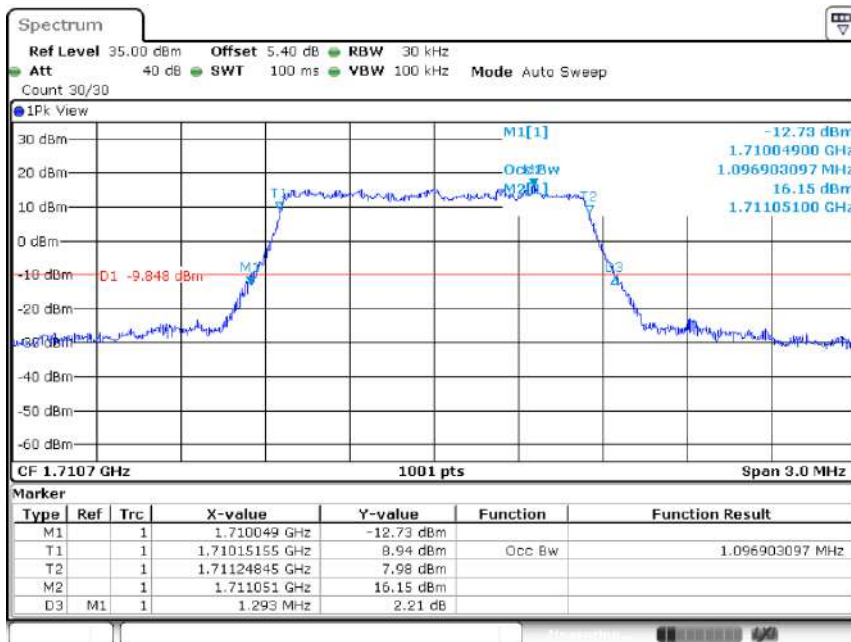
Band4-1.4MHz-16QAM-20393-6RB#0-1.088



Date: 22.OCT.2020 14:31:35

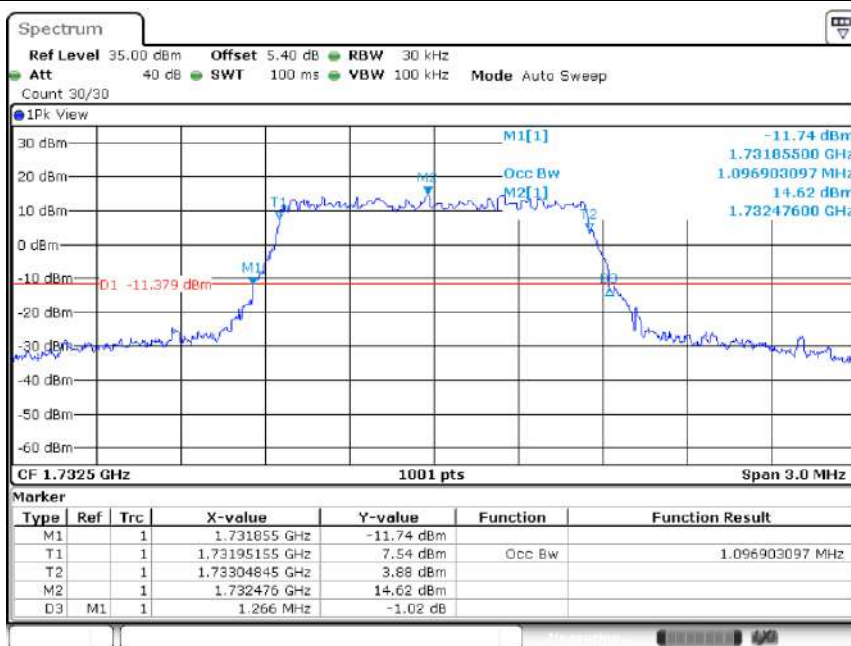


Band4-1.4MHz-64QAM-19957-6RB#0-1.097



Date: 22.OCT.2020 16:16:37

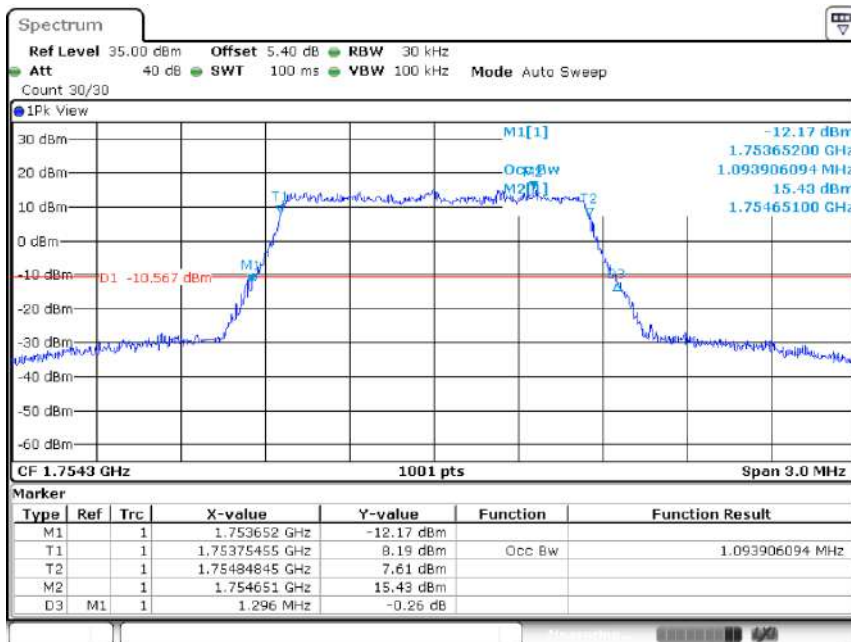
Band4-1.4MHz-64QAM-20175-6RB#0-1.097



Date: 22.OCT.2020 16:16:53

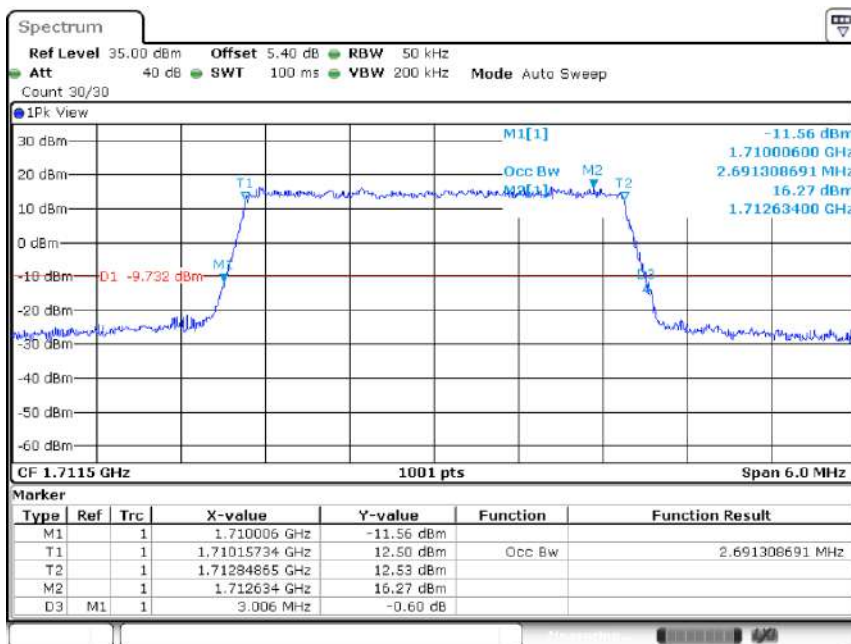


Band4-1.4MHz-64QAM-20393-6RB#0-1.094



Date: 22.OCT.2020 16:17:09

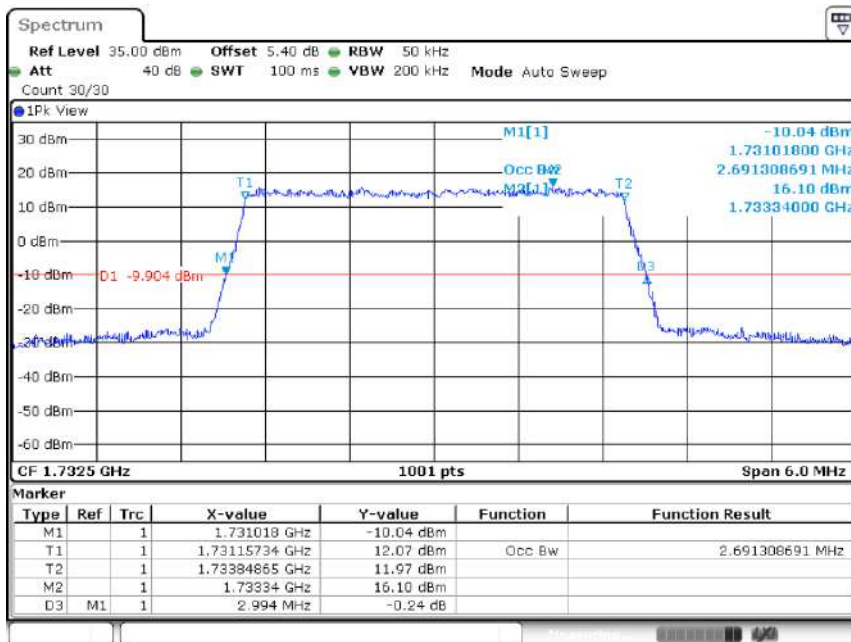
Band4-3MHz-QPSK-19965-15RB#0-2.691



Date: 22.OCT.2020 14:31:57

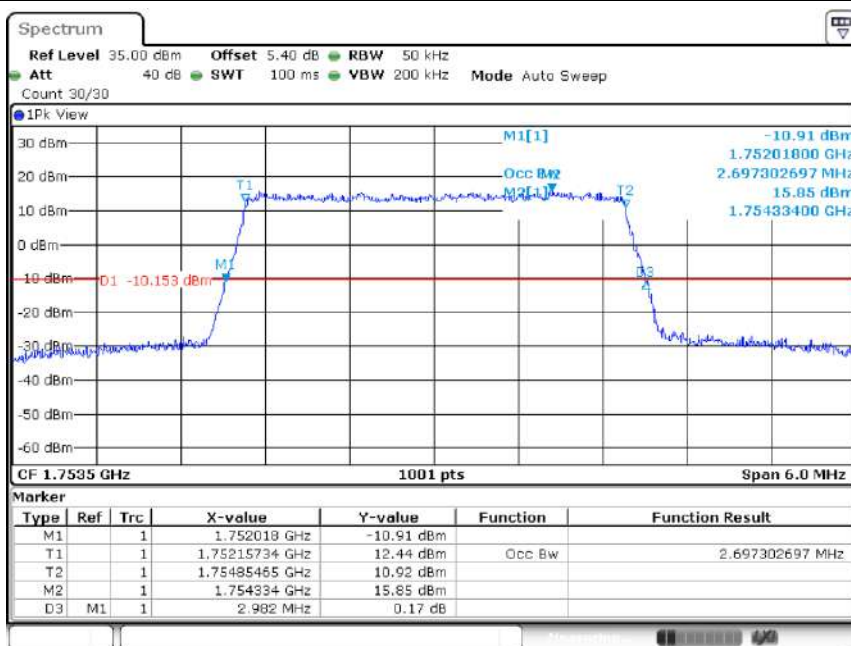


Band4-3MHz-QPSK-20175-15RB#0-2.691



Date: 22.OCT.2020 14:32:30

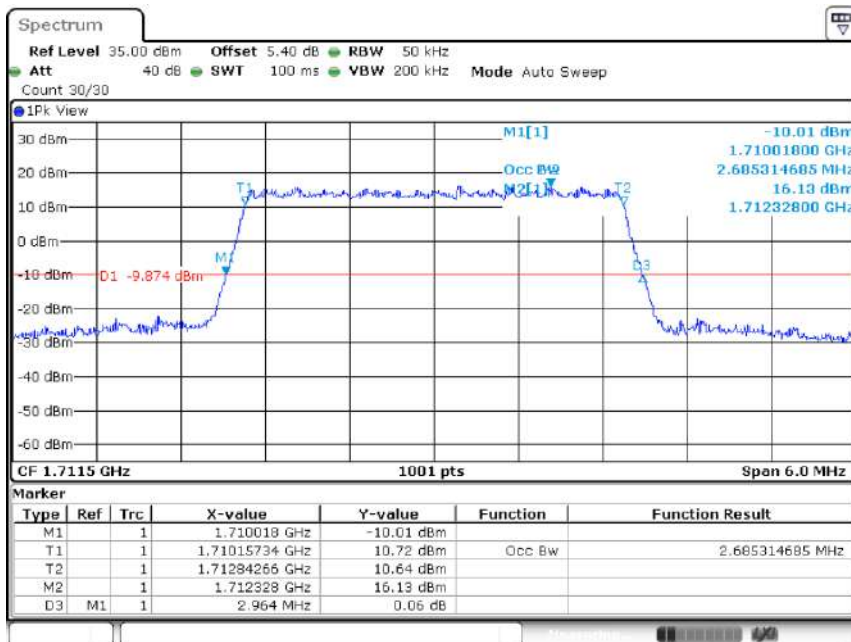
Band4-3MHz-QPSK-20385-15RB#0-2.697



Date: 22.OCT.2020 14:33:02

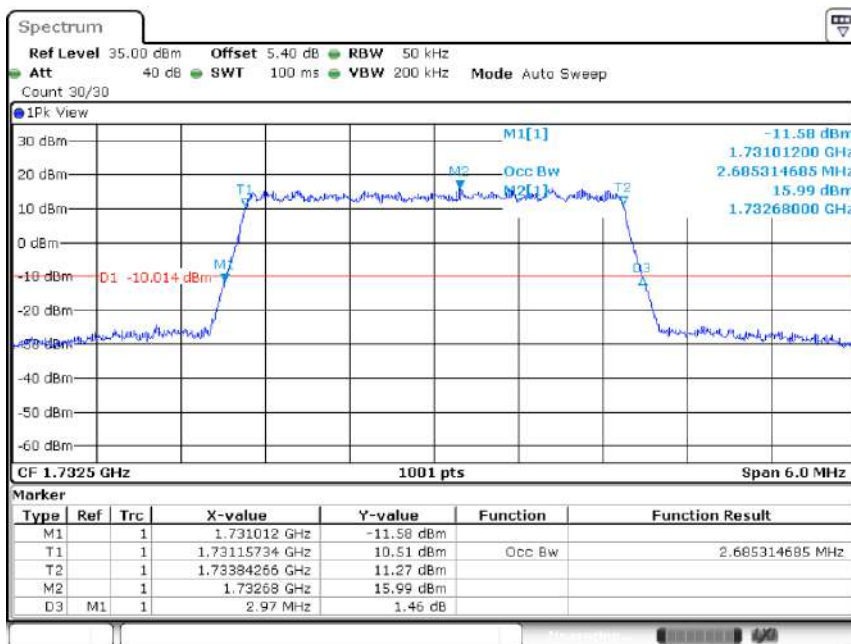


Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 22.OCT.2020 14:32:13

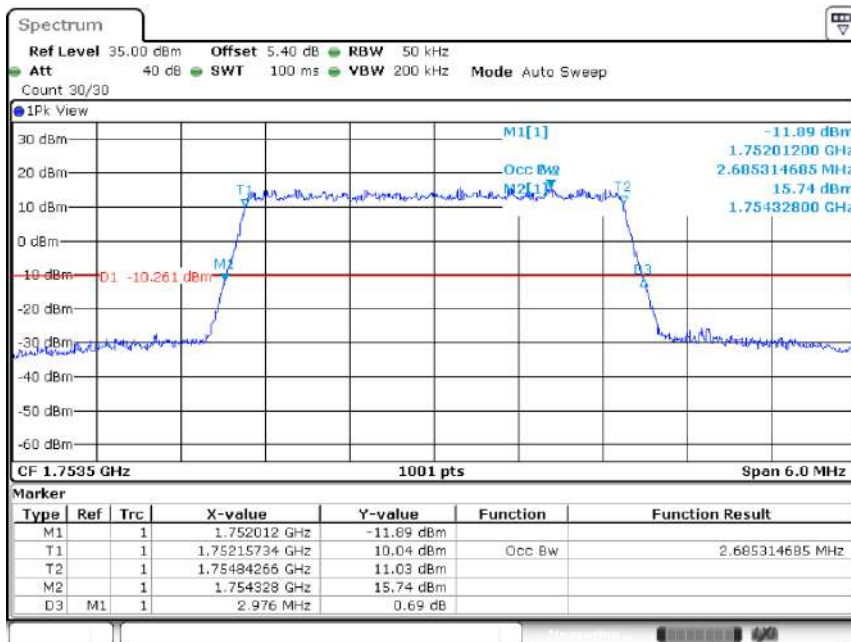
Band4-3MHz-16QAM-20175-15RB#0-2.685



Date: 22.OCT.2020 14:32:46

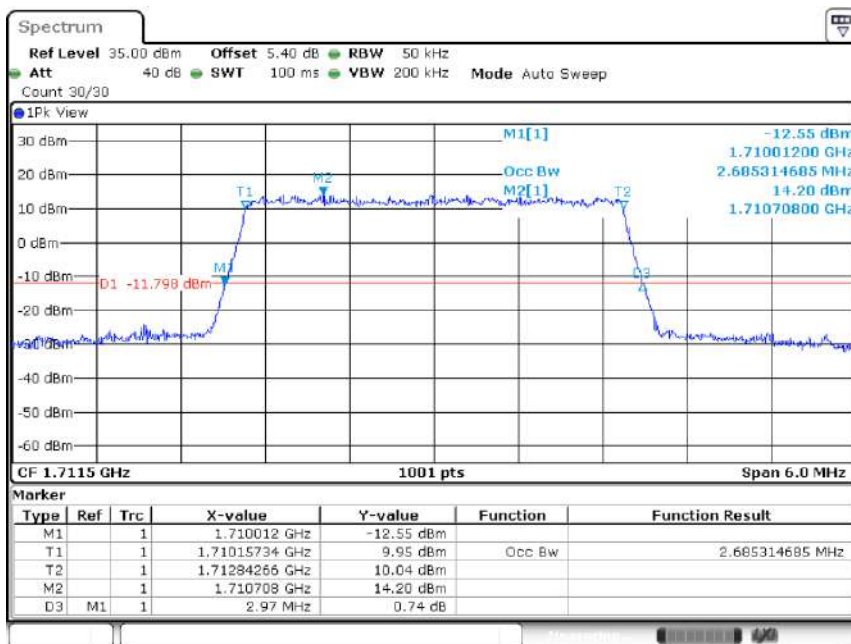


Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 22.OCT.2020 14:33:17

Band4-3MHz-64QAM-19965-15RB#0-2.685



Date: 22.OCT.2020 16:17:33



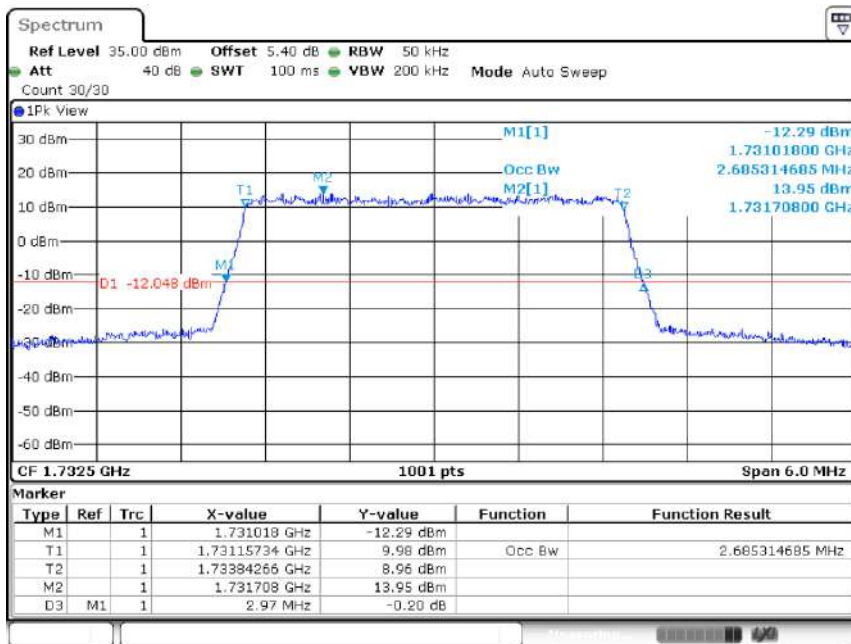
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

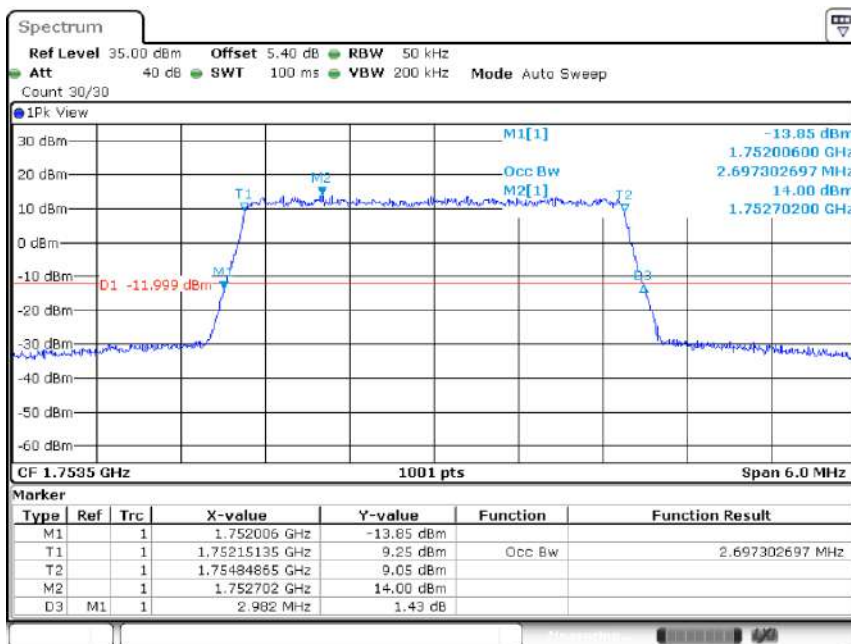
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 16:17:49

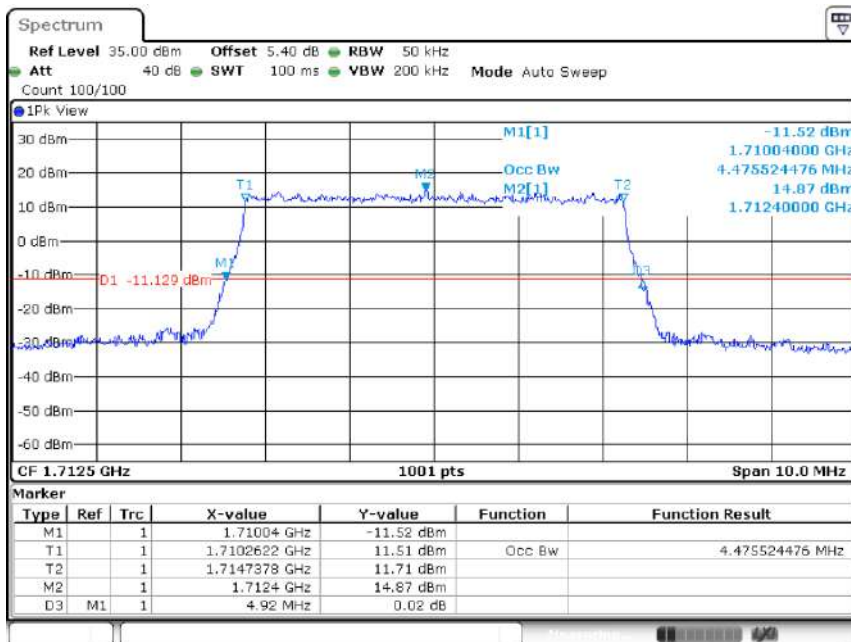
Band4-3MHz-64QAM-20385-15RB#0-2.697



Date: 22.OCT.2020 16:18:05

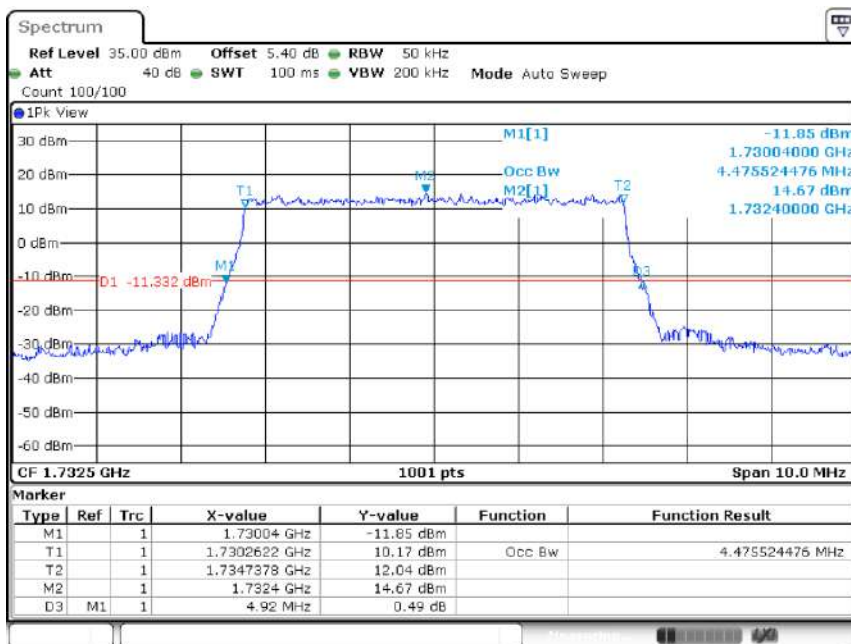


Band4-5MHz-QPSK-19975-25RB#0-4.476



Date: 22.OCT.2020 14:33:46

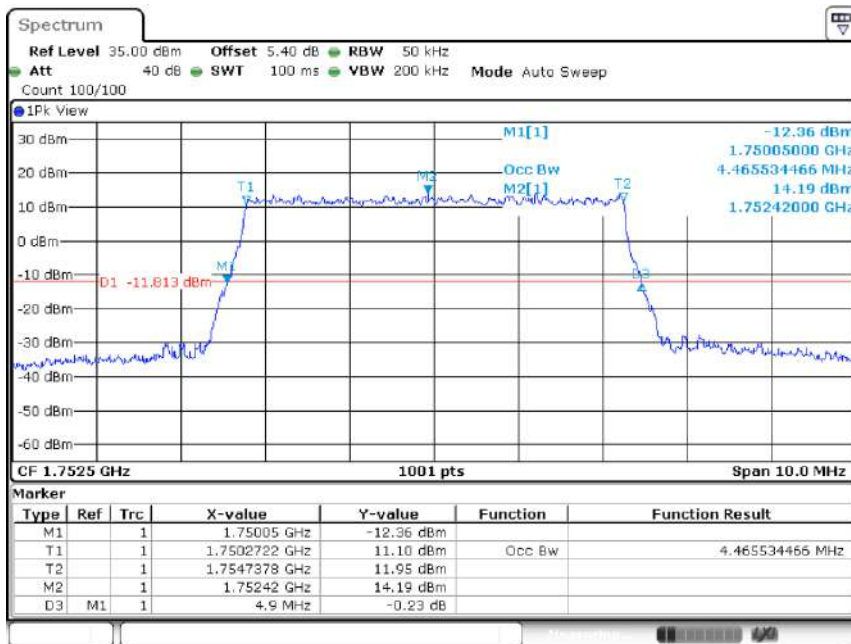
Band4-5MHz-QPSK-20175-25RB#0-4.476



Date: 22.OCT.2020 14:34:32

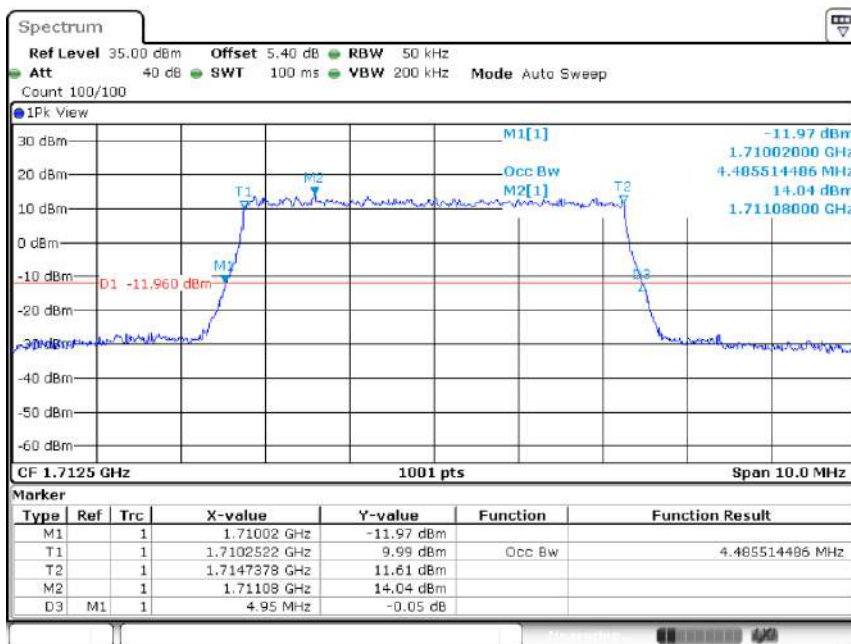


Band4-5MHz-QPSK-20375-25RB#0-4.466



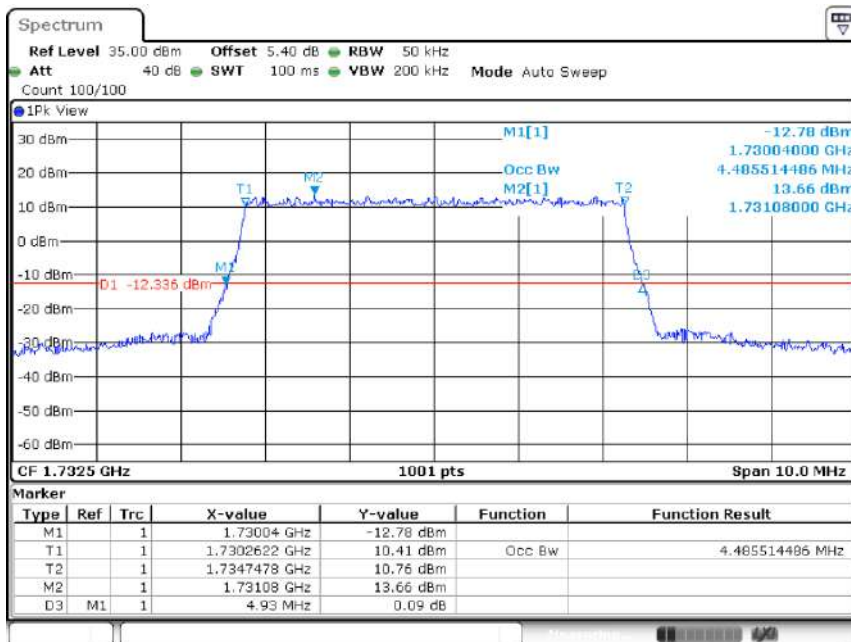
Date: 22.OCT.2020 14:35:18

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



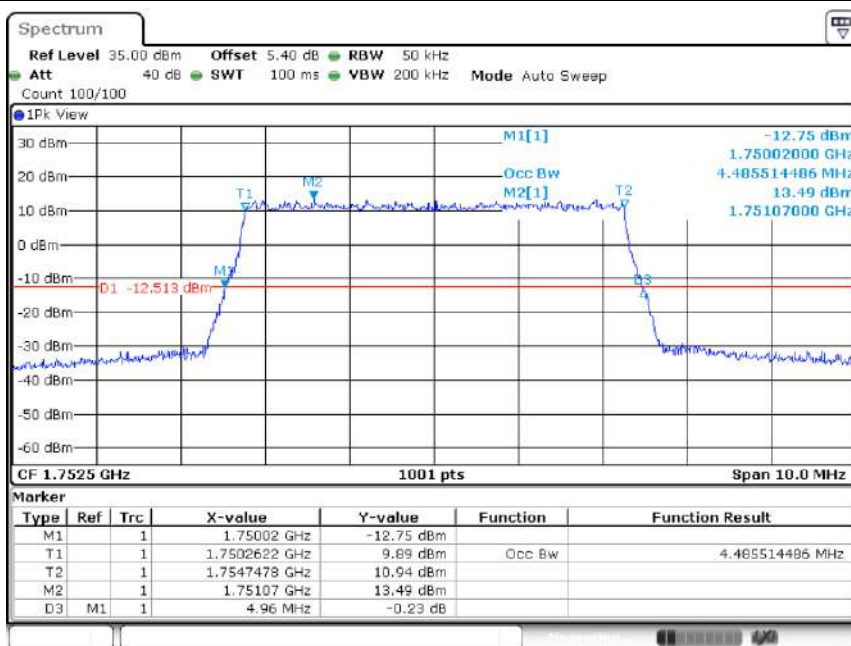
Date: 22.OCT.2020 14:34:09

Band4-5MHz-16QAM-20175-25RB#0-4.486



Date: 22.OCT.2020 14:34:55

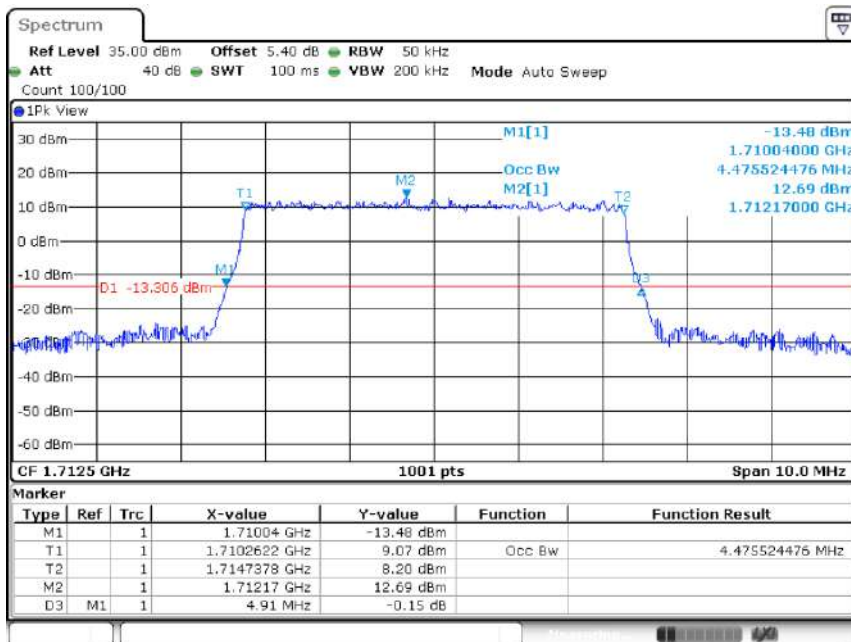
Band4-5MHz-16QAM-20375-25RB#0-4.486



Date: 22.OCT.2020 14:35:41

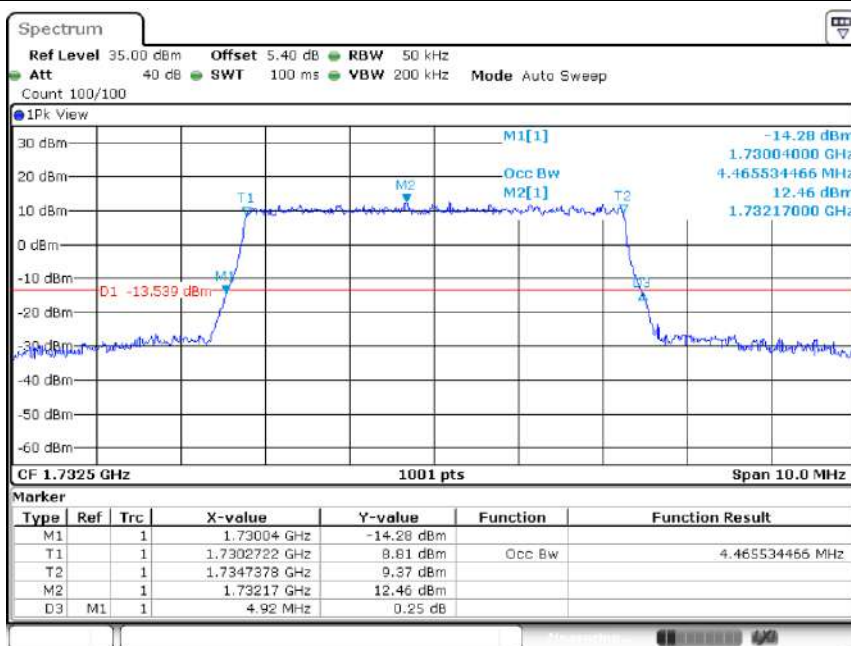


Band4-5MHz-64QAM-19975-25RB#0-4.476



Date: 22.OCT.2020 16:18:35

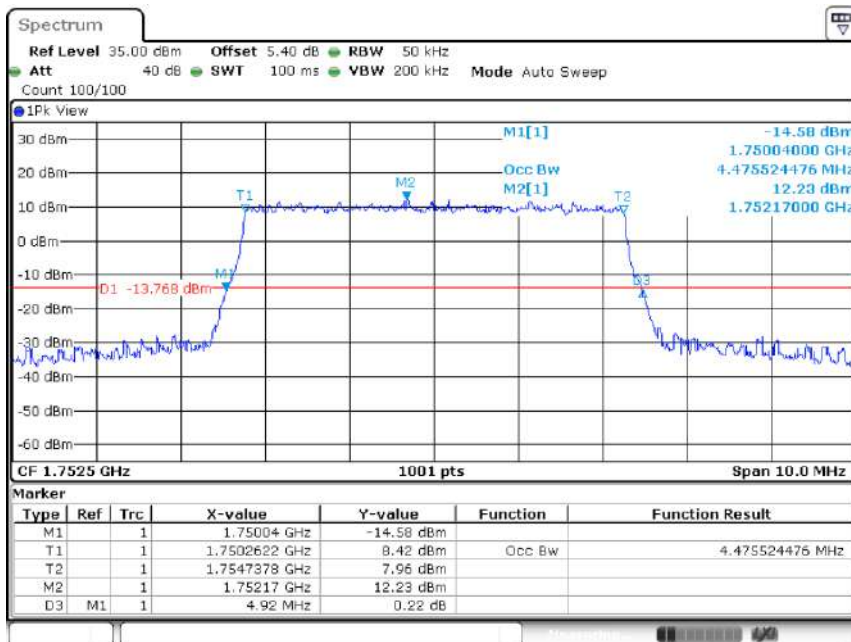
Band4-5MHz-64QAM-20175-25RB#0-4.466



Date: 22.OCT.2020 16:18:58

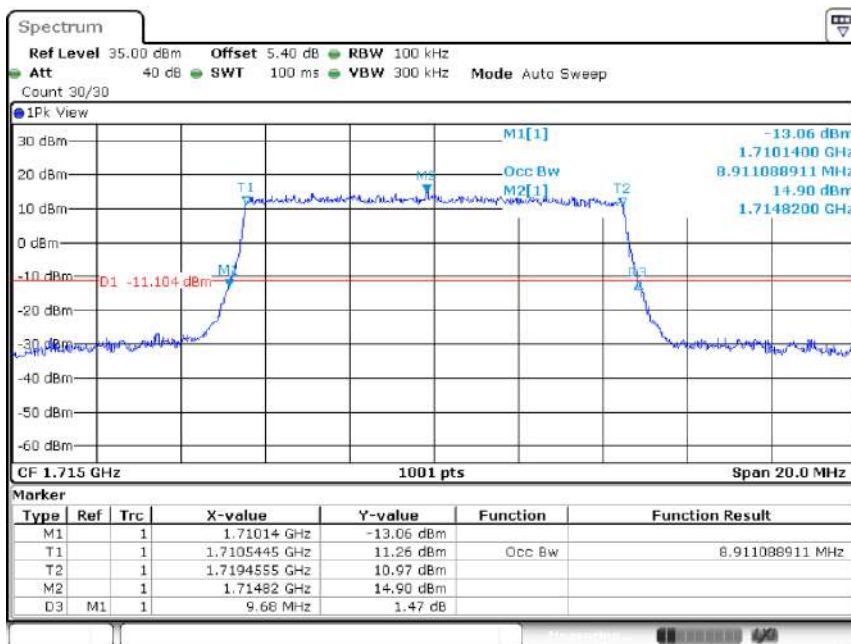


Band4-5MHz-64QAM-20375-25RB#0-4.476



Date: 22.OCT.2020 16:19:21

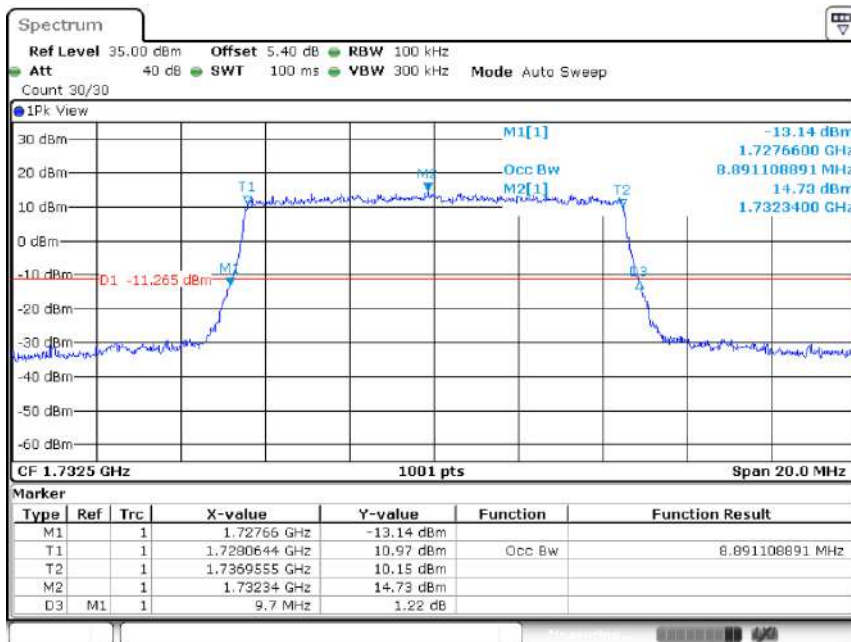
Band4-10MHz-QPSK-20000-50RB#0-8.911



Date: 22.OCT.2020 14:36:03

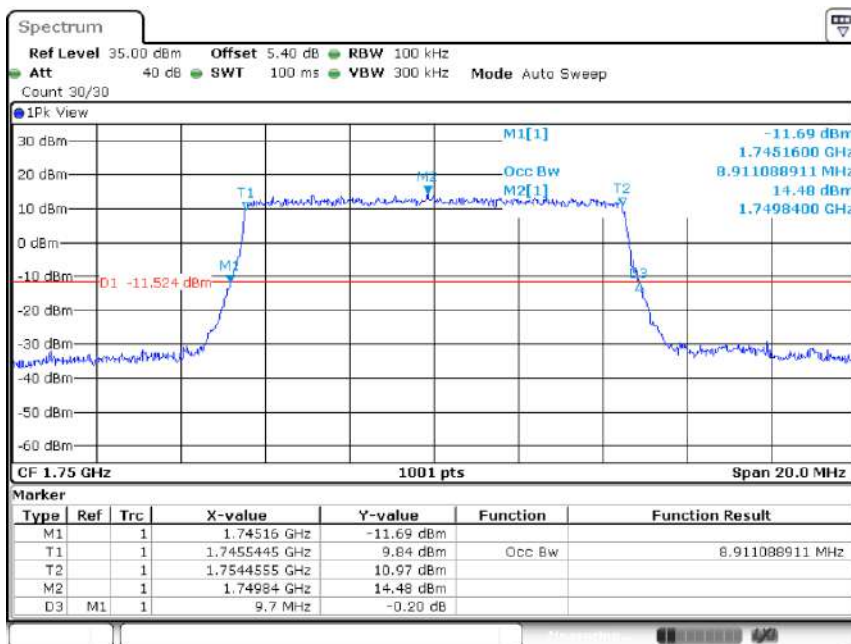


Band4-10MHz-QPSK-20175-50RB#0-8.891



Date: 22.OCT.2020 14:36:35

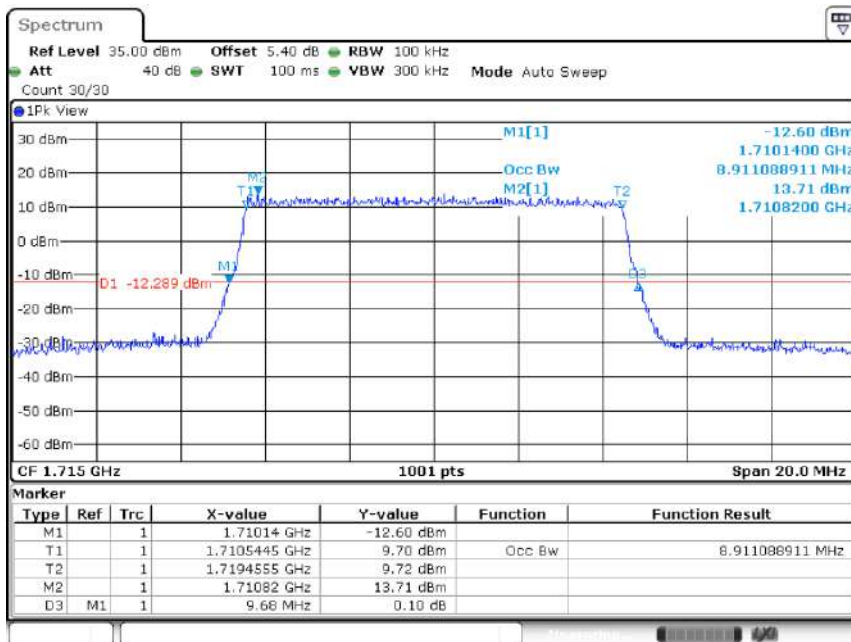
Band4-10MHz-QPSK-20350-50RB#0-8.911



Date: 22.OCT.2020 14:37:07

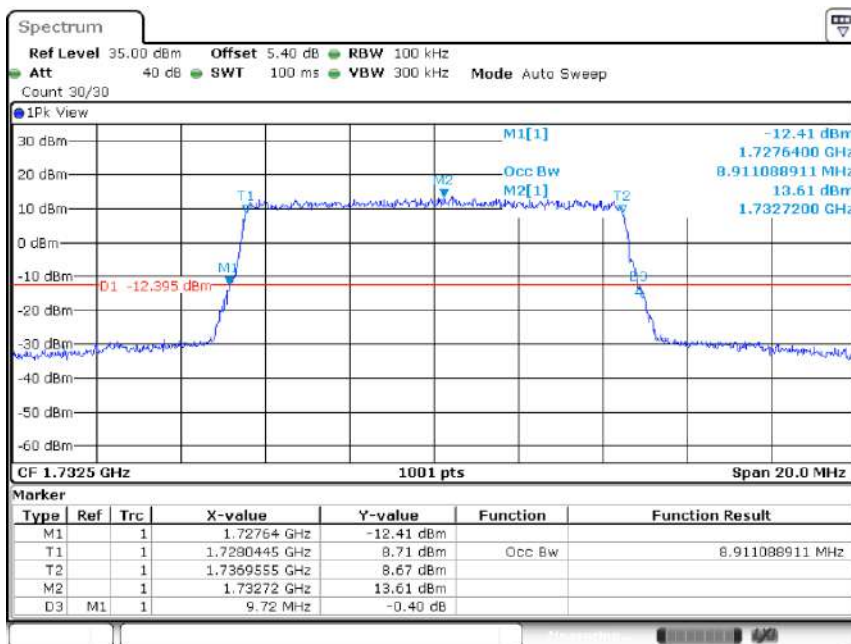


Band4-10MHz-16QAM-20000-50RB#0-8.911



Date: 22.OCT.2020 14:36:19

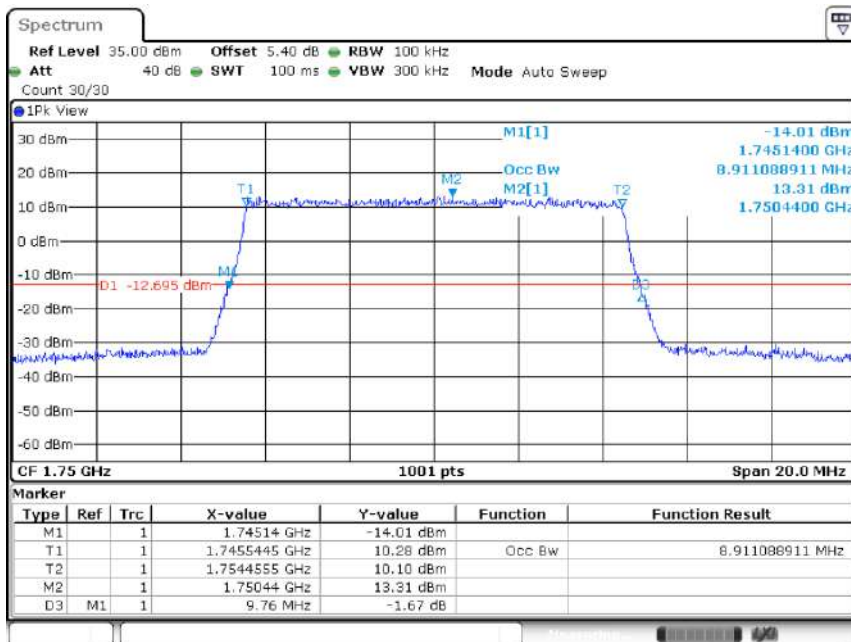
Band4-10MHz-16QAM-20175-50RB#0-8.911



Date: 22.OCT.2020 14:36:51

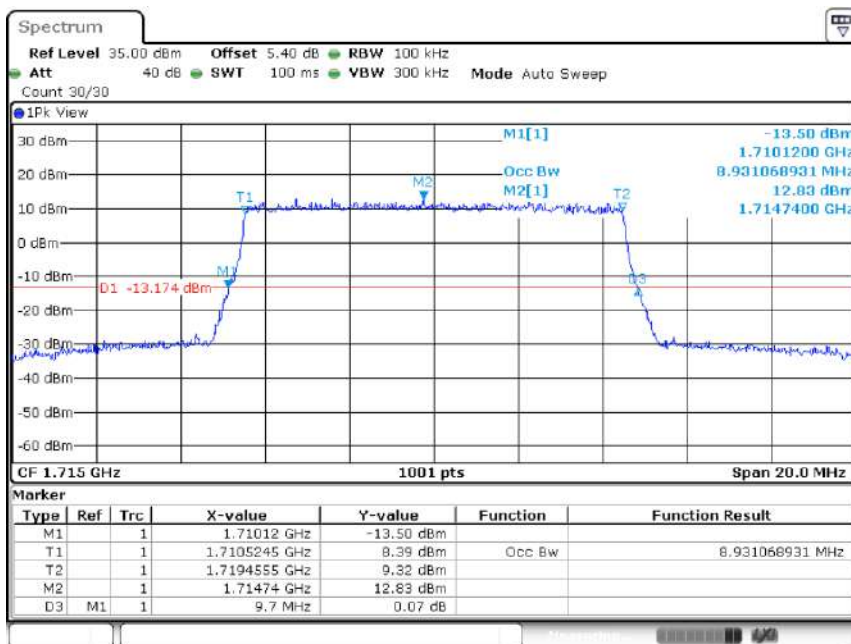


Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 22.OCT.2020 14:37:23

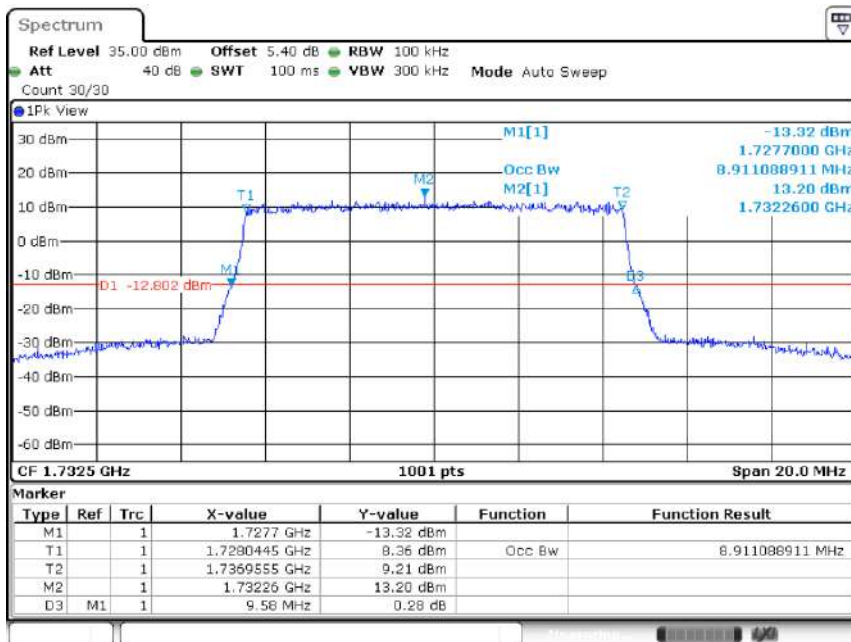
Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 22.OCT.2020 16:19:44

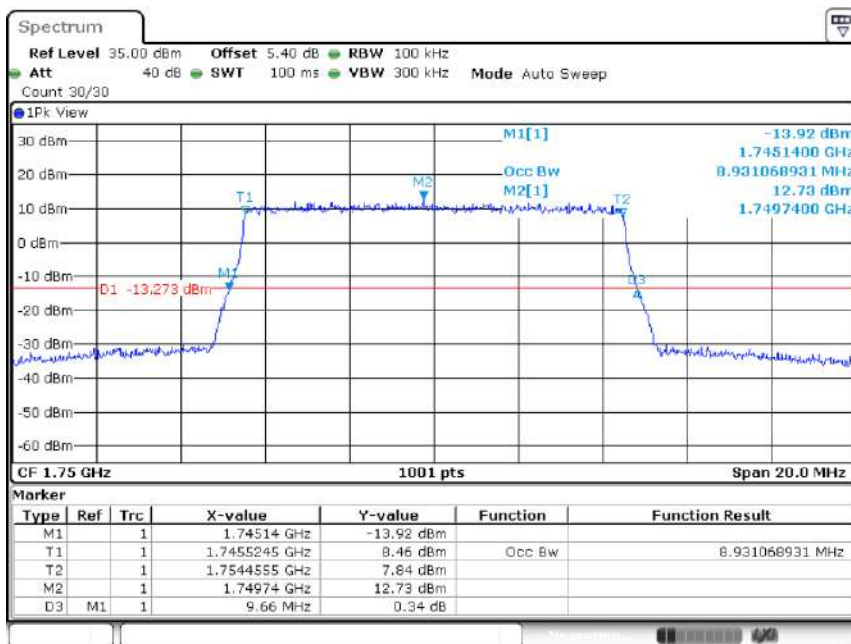


Band4-10MHz-64QAM-20175-50RB#0-8.911



Date: 22.OCT.2020 16:20:00

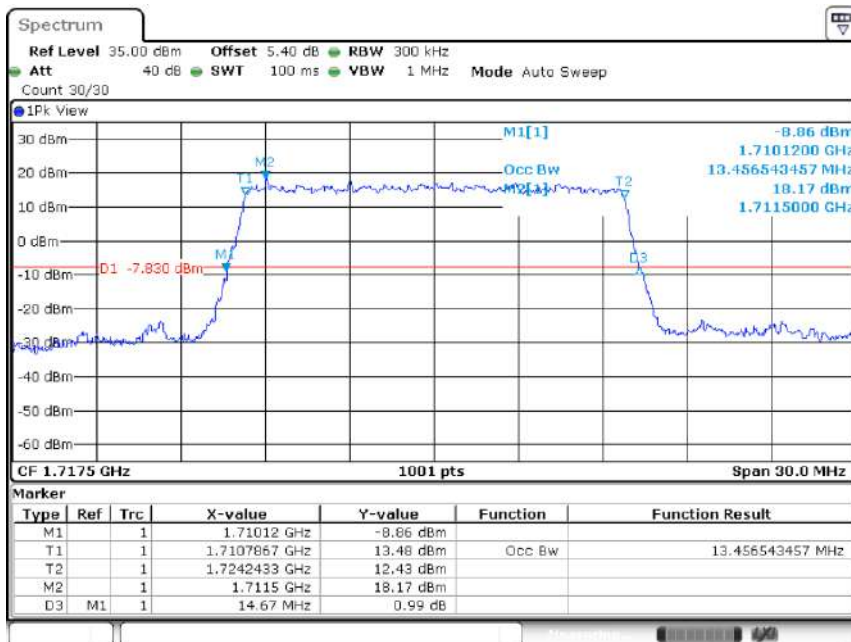
Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 22.OCT.2020 16:20:16

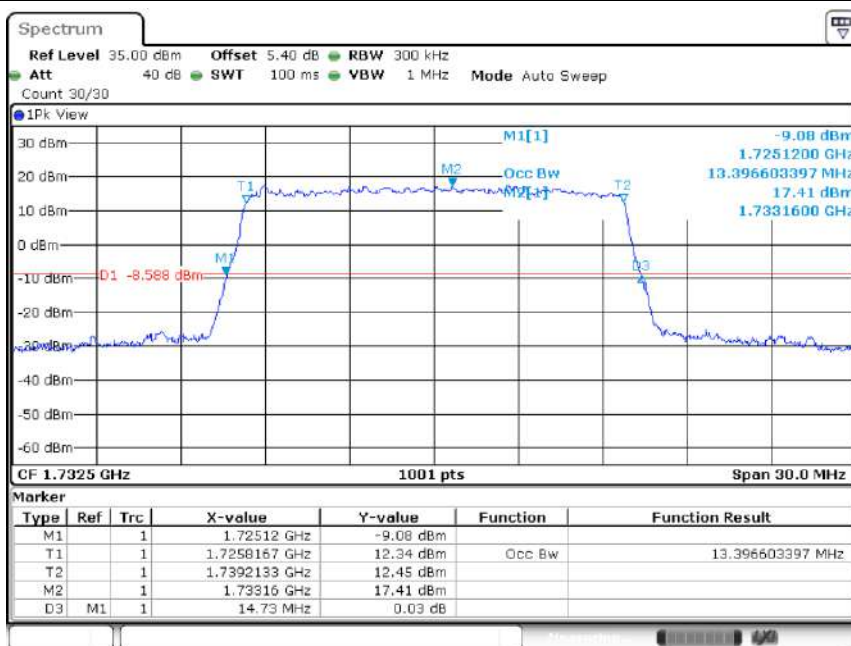


Band4-15MHz-QPSK-20025-75RB#0-13.457



Date: 22.OCT.2020 14:37:45

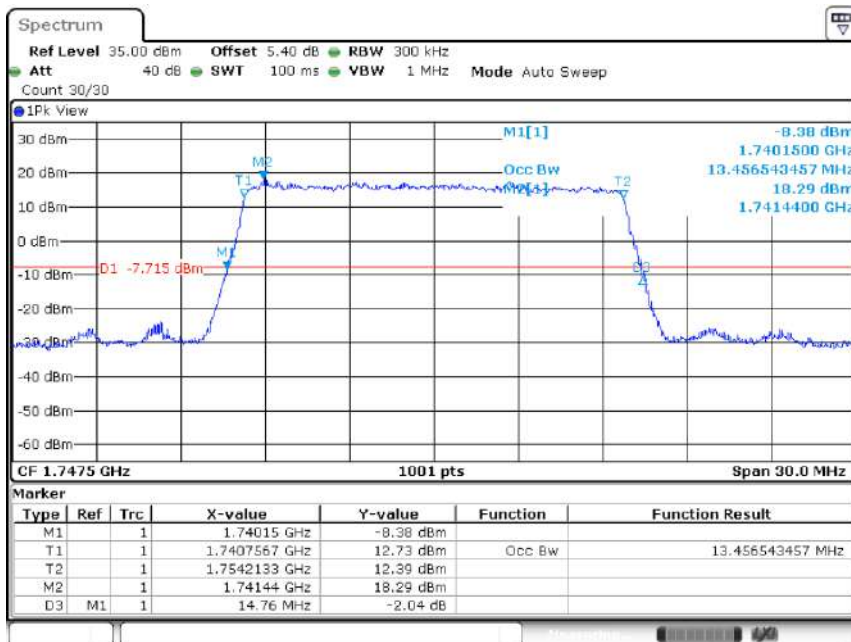
Band4-15MHz-QPSK-20175-75RB#0-13.397



Date: 22.OCT.2020 14:38:17

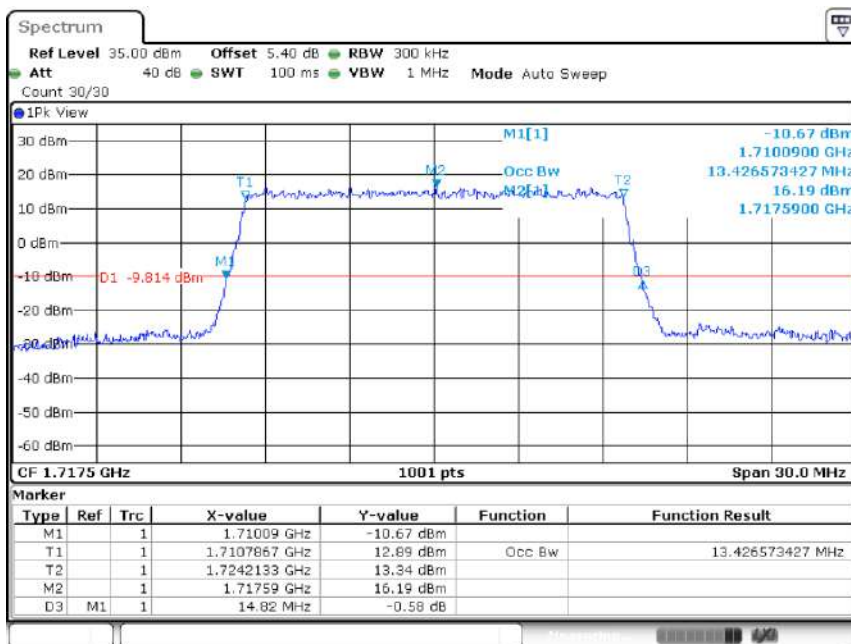


Band4-15MHz-QPSK-20325-75RB#0-13.457



Date: 22.OCT.2020 14:38:49

Band4-15MHz-16QAM-20025-75RB#0-13.427



Date: 22.OCT.2020 14:38:01



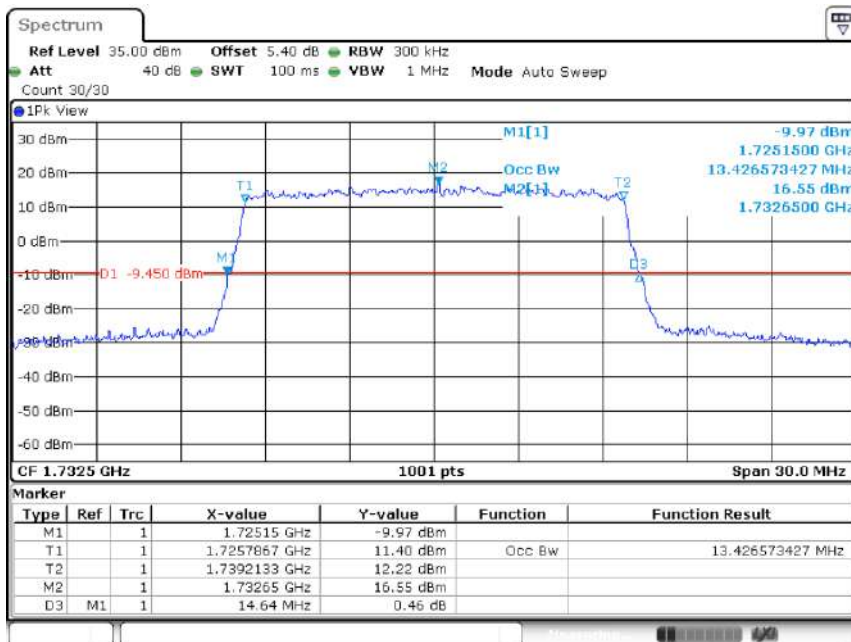
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

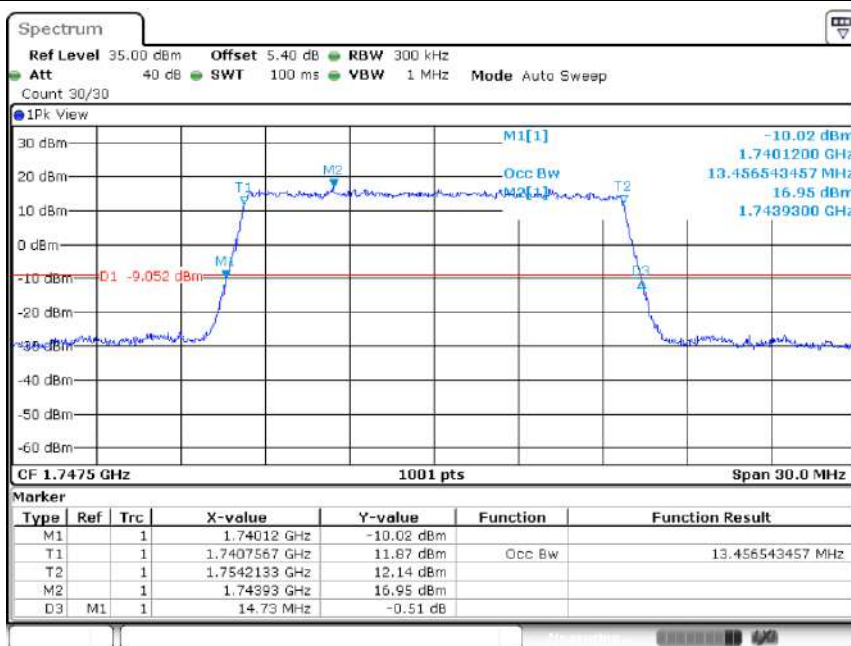
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-15MHz-16QAM-20175-75RB#0-13.427



Date: 22.OCT.2020 14:38:33

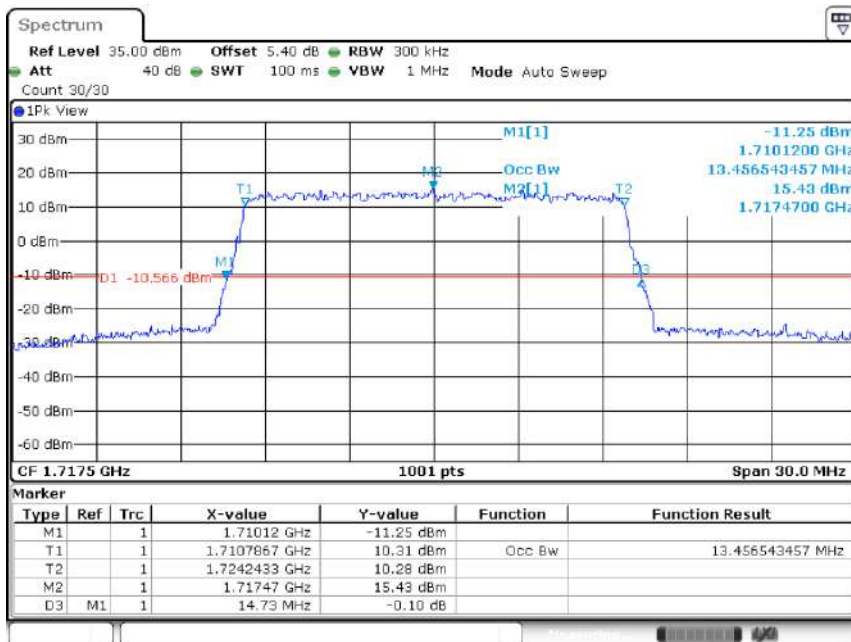
Band4-15MHz-16QAM-20325-75RB#0-13.457



Date: 22.OCT.2020 14:39:05

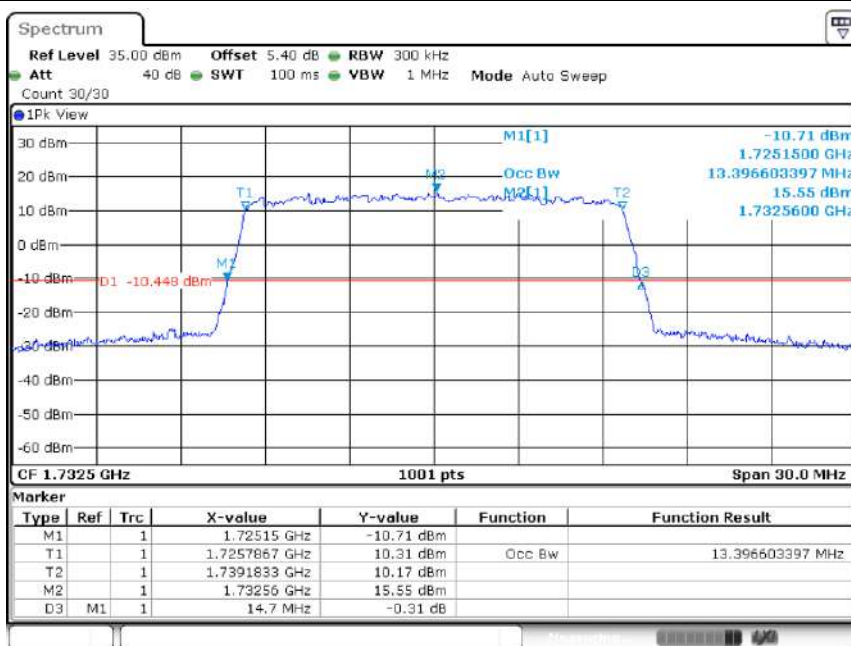


Band4-15MHz-64QAM-20025-75RB#0-13.457



Date: 22.OCT.2020 16:22:51

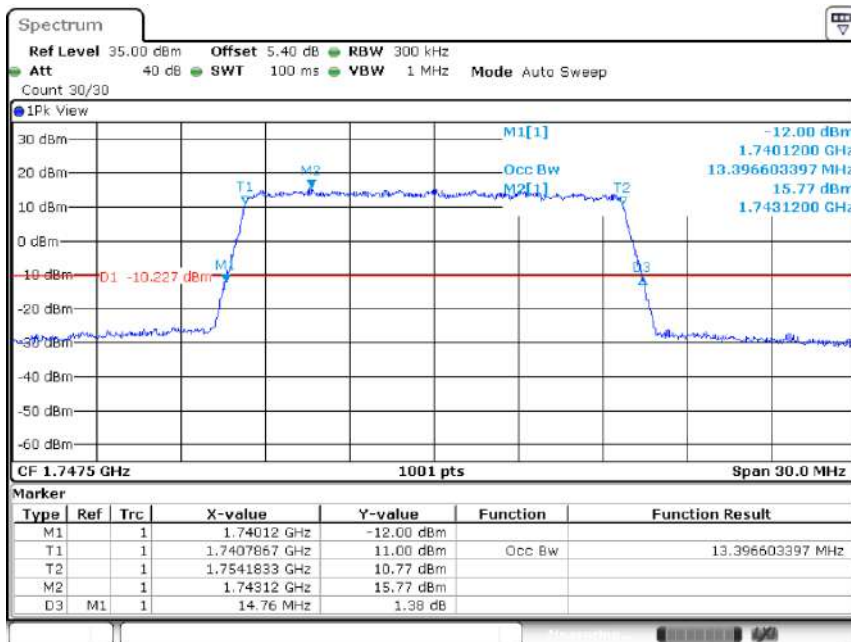
Band4-15MHz-64QAM-20175-75RB#0-13.397



Date: 22.OCT.2020 16:23:07

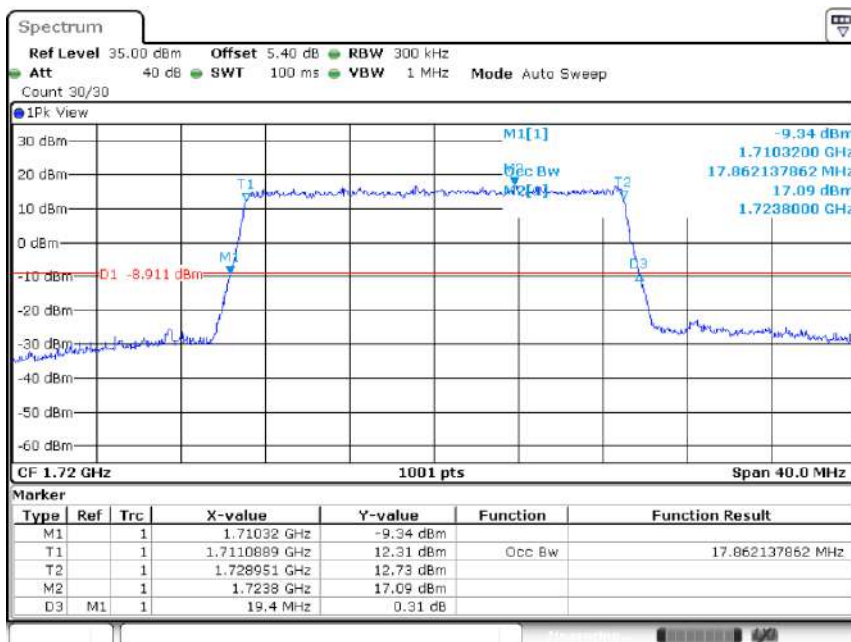


Band4-15MHz-64QAM-20325-75RB#0-13.397



Date: 22.OCT.2020 16:23:23

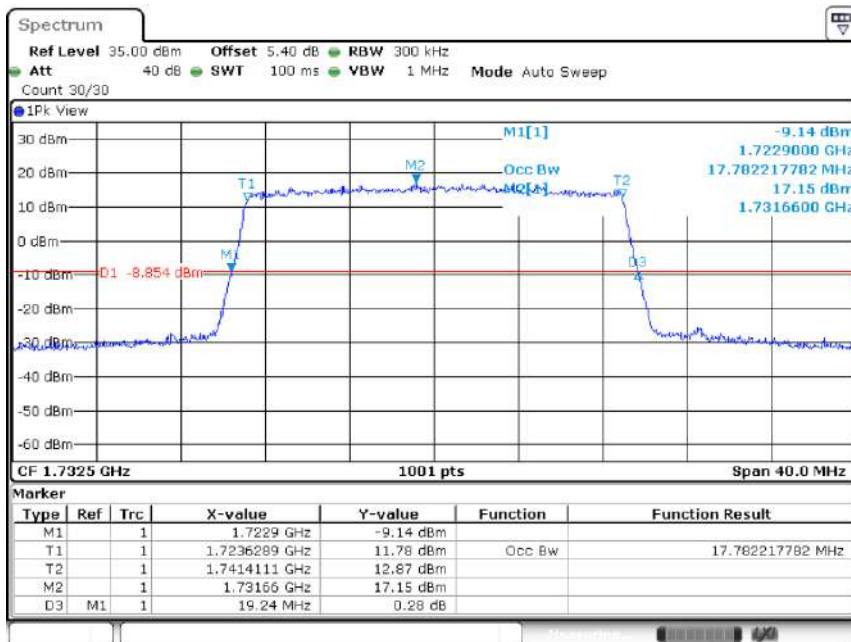
Band4-20MHz-QPSK-20050-100RB#0-17.862



Date: 22.OCT.2020 14:39:28

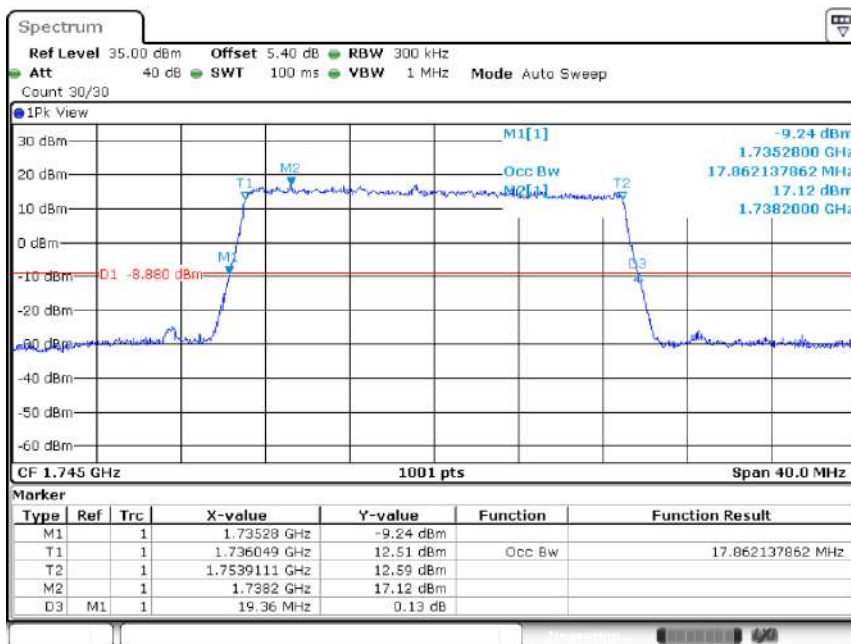


Band4-20MHz-QPSK-20175-100RB#0-17.782



Date: 22.OCT.2020 14:40:00

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



Date: 22.OCT.2020 14:40:31



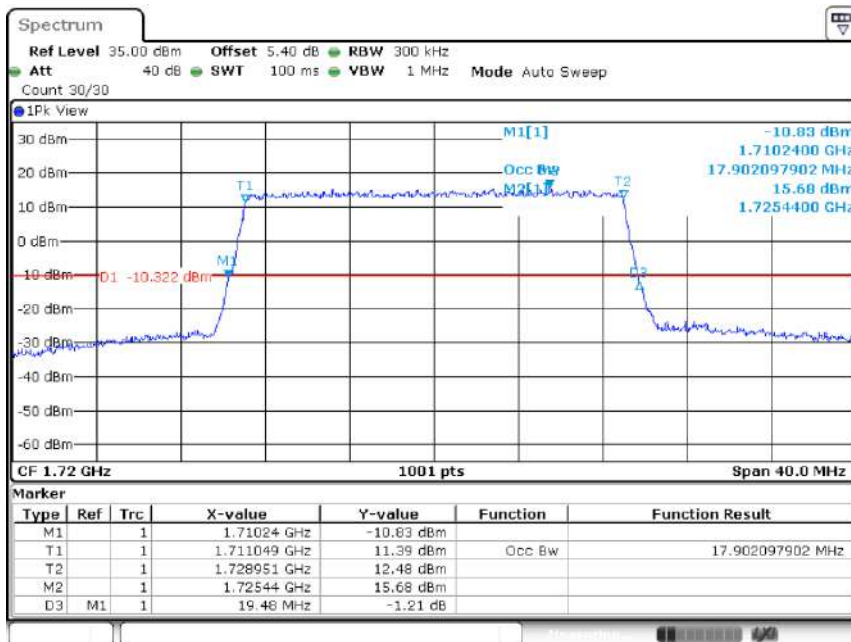
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

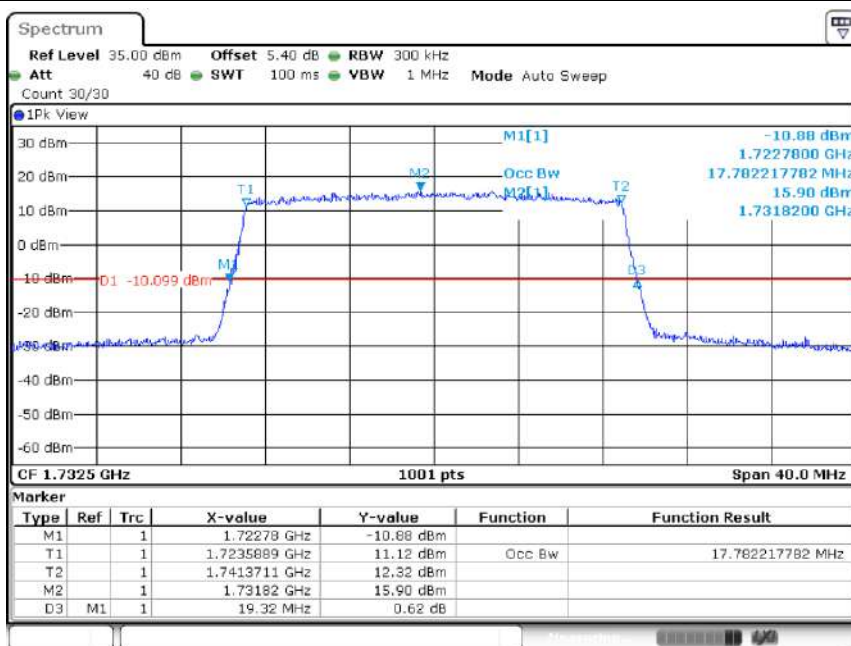
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band4-20MHz-16QAM-20050-100RB#0-17.902



Date: 22.OCT.2020 14:39:44

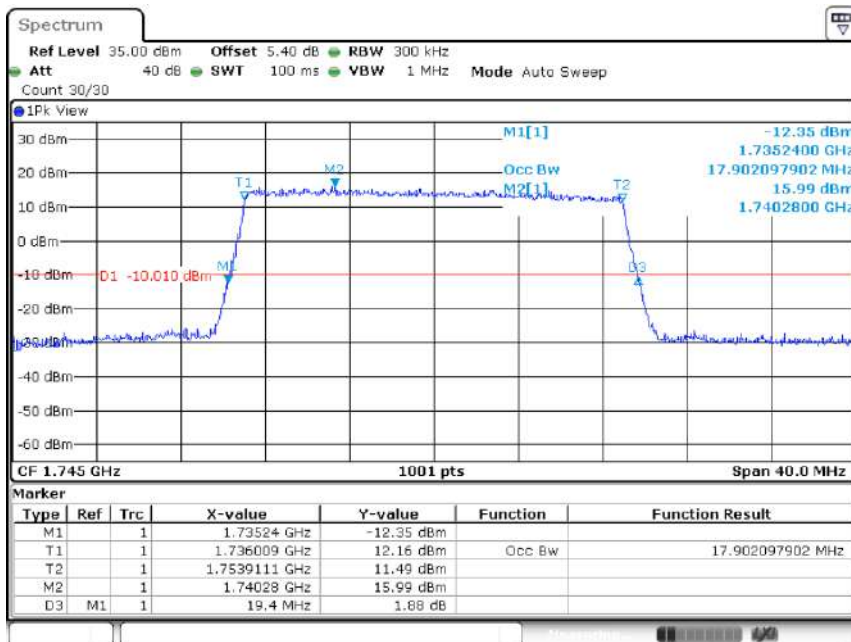
Band4-20MHz-16QAM-20175-100RB#0-17.782



Date: 22.OCT.2020 14:40:15

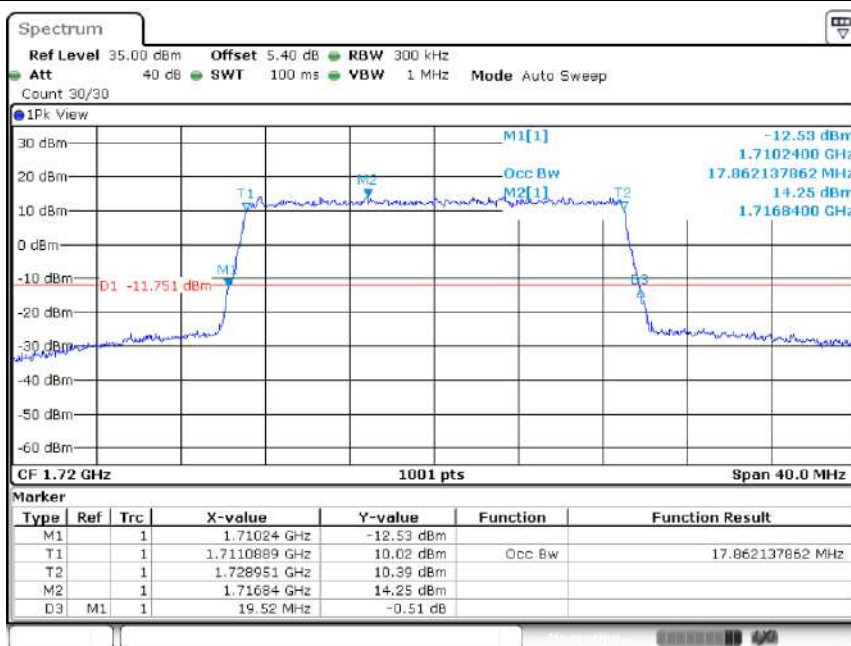


Band4-20MHz-16QAM-20300-100RB#0-17.902



Date: 22.OCT.2020 14:40:47

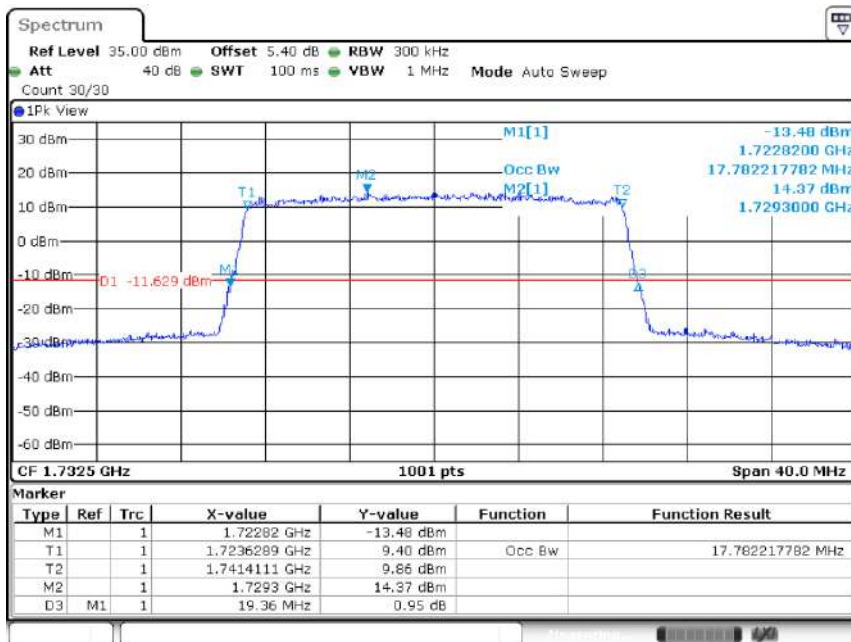
Band4-20MHz-64QAM-20050-100RB#0-17.862



Date: 22.OCT.2020 16:35:48

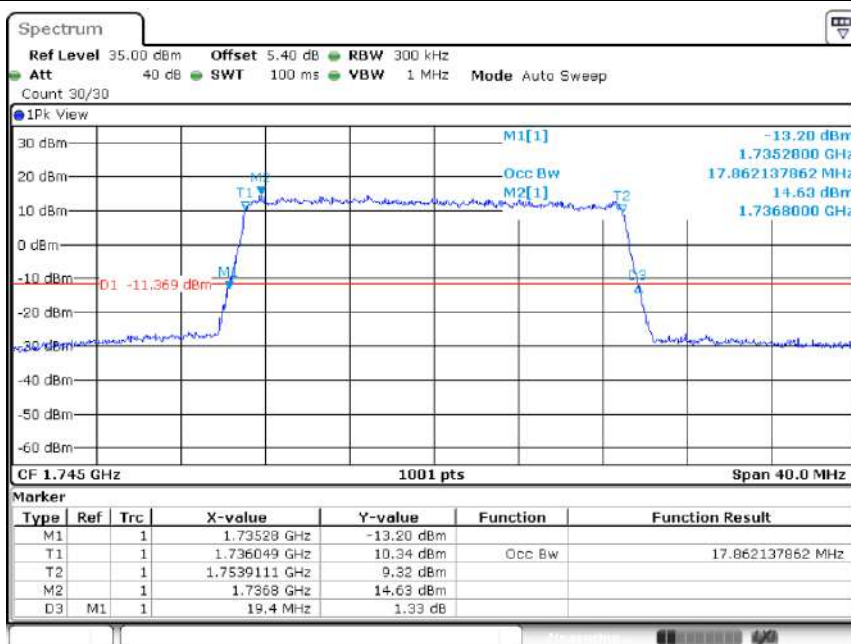


Band4-20MHz-64QAM-20175-100RB#0-17.782



Date: 22.OCT.2020 16:36:04

Band4-20MHz-64QAM-20300-100RB#0-17.862

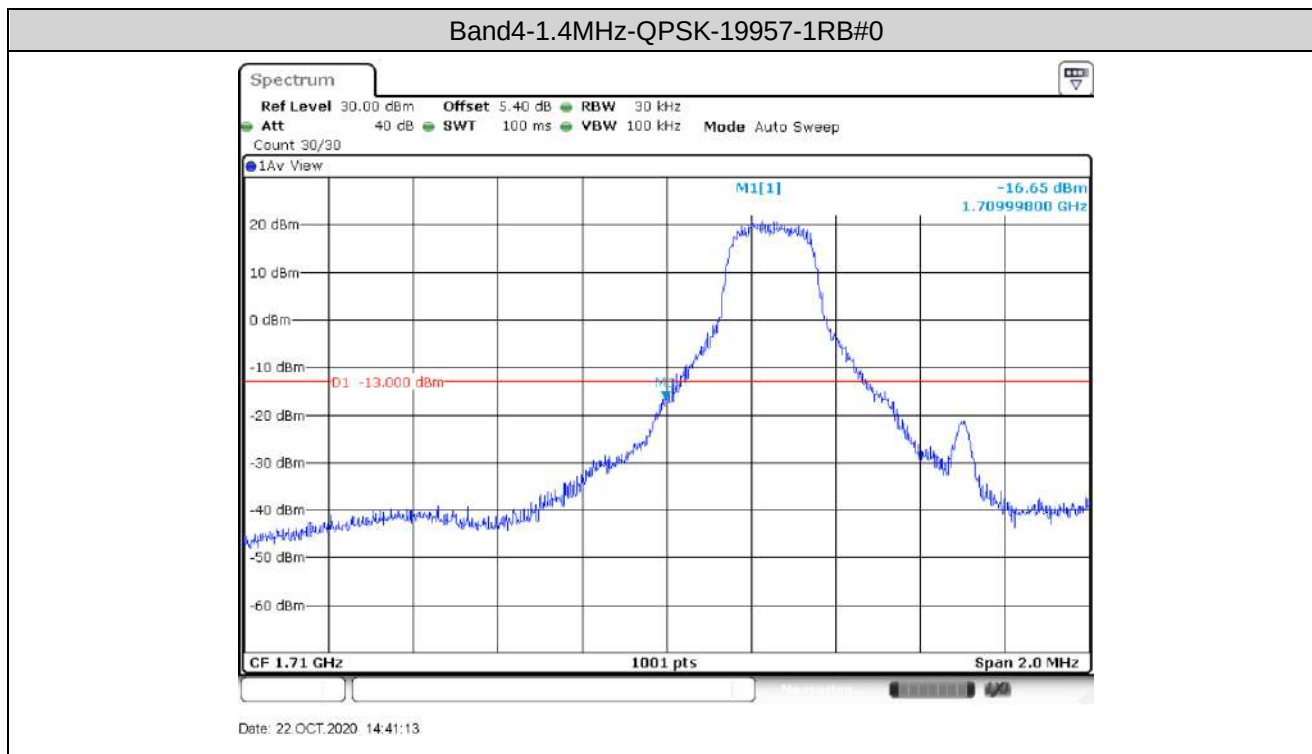


Date: 22.OCT.2020 16:36:19

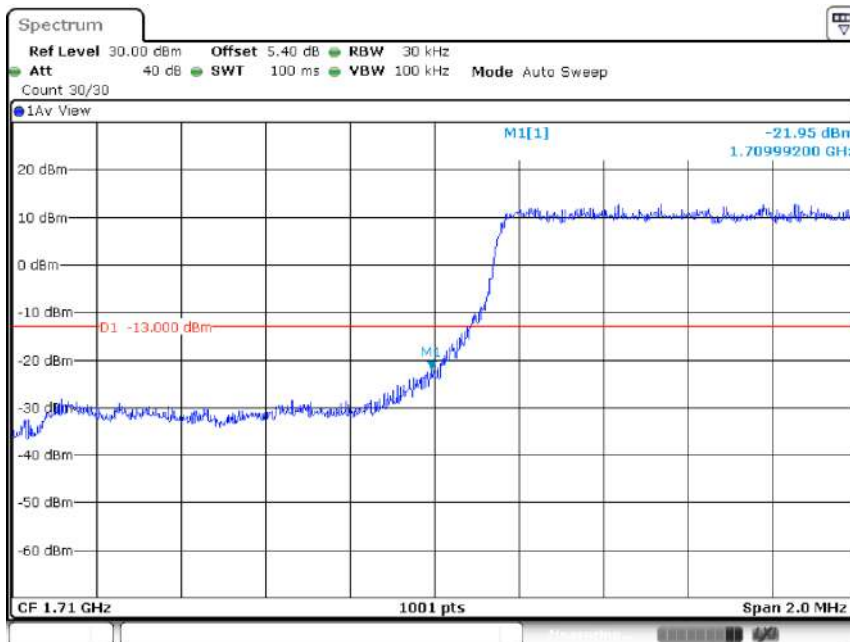


5 Band Edge Compliance

5.1 Test Plots

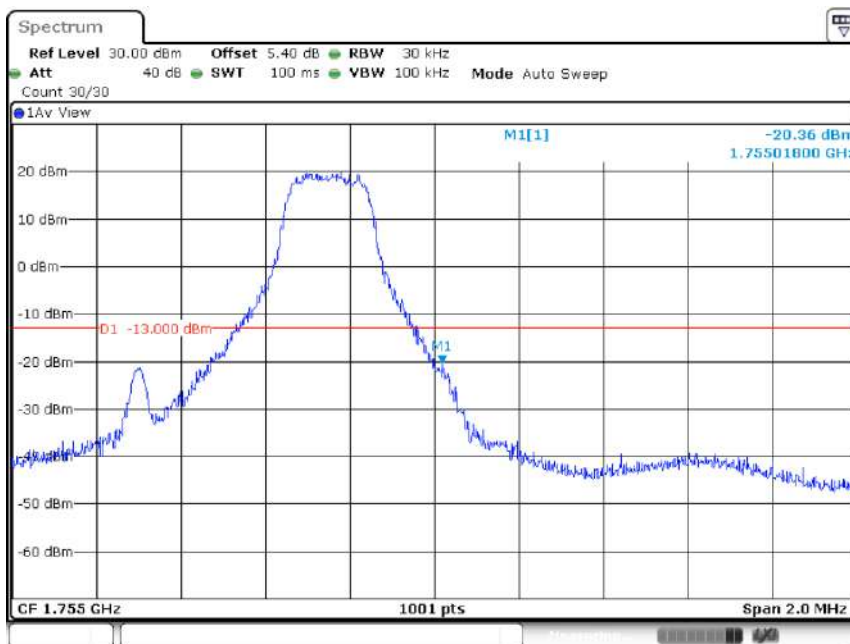


Band4-1.4MHz-QPSK-19957-6RB#0



Date: 22.OCT.2020 14:41:47

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



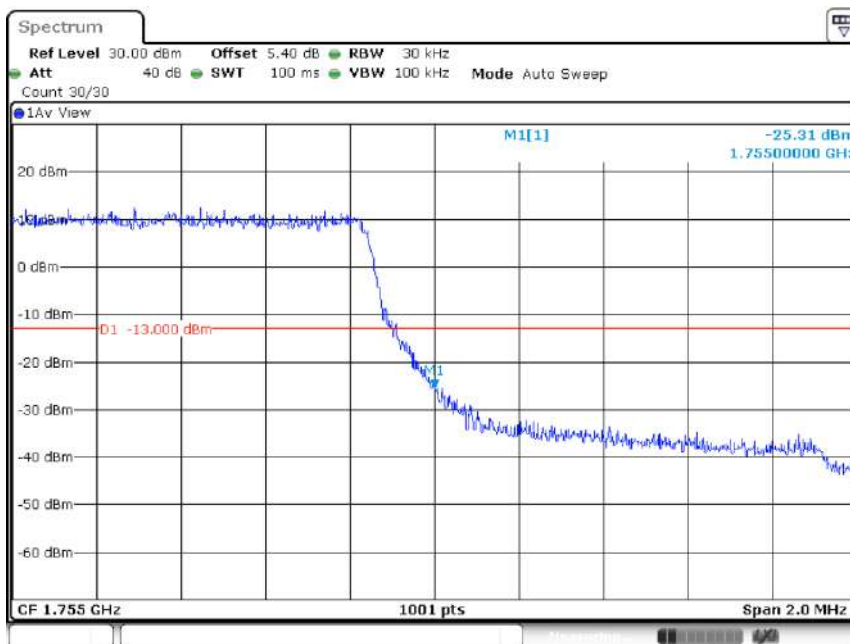
Date: 22.OCT.2020 14:42:28



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.

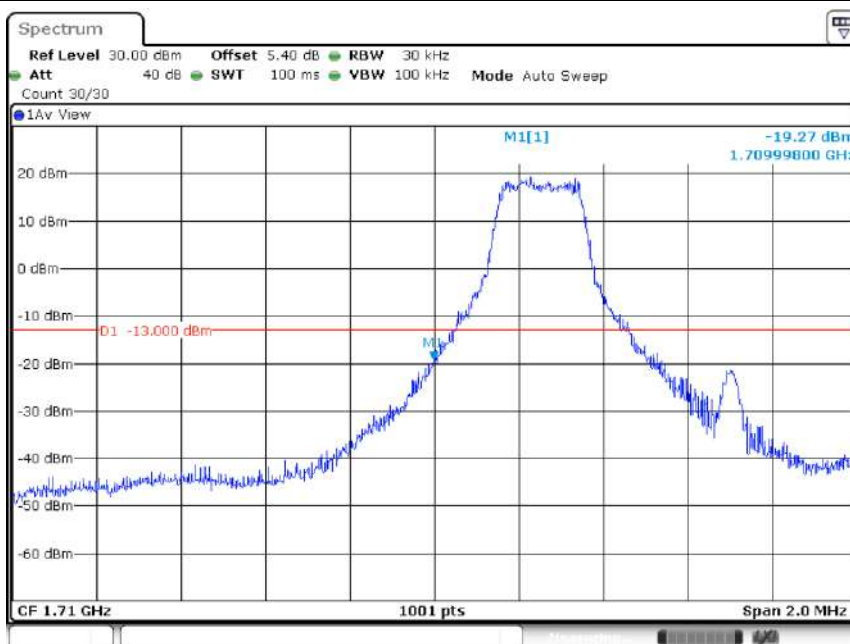
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn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

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



Date: 22.OCT.2020 14:43:01

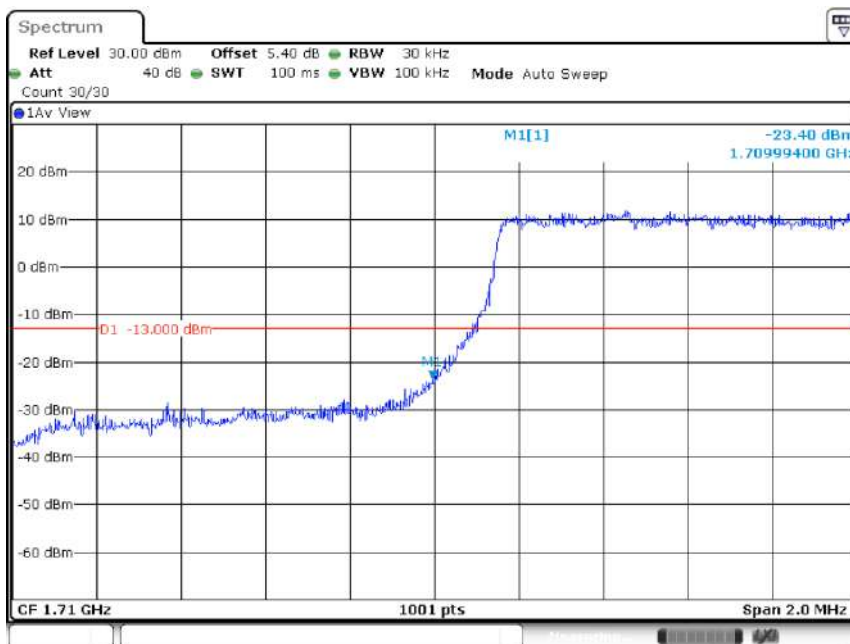
Band4-1.4MHz-16QAM-19957-1RB#0



Date: 22.OCT.2020 14:41:30

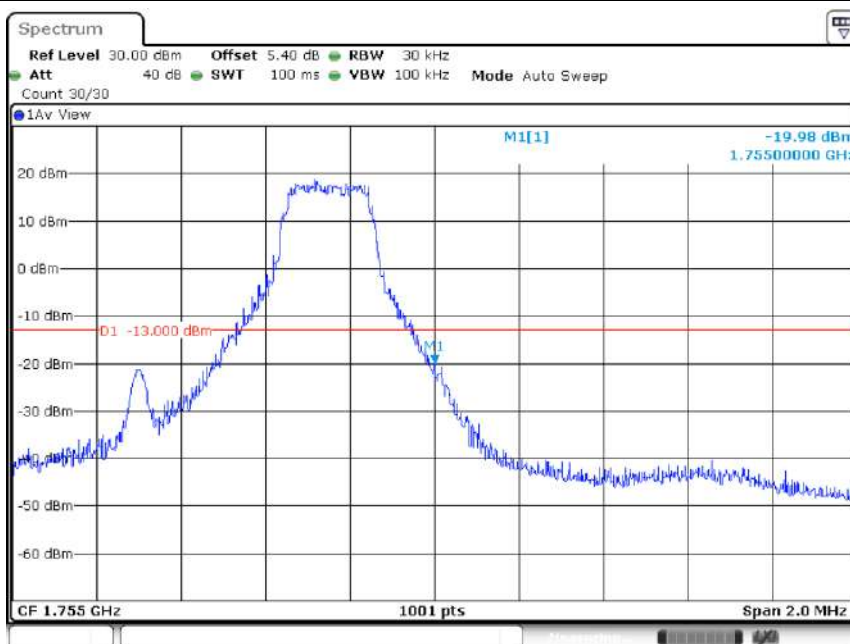


Band4-1.4MHz-16QAM-19957-6RB#0



Date: 22.OCT.2020 14:42:03

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

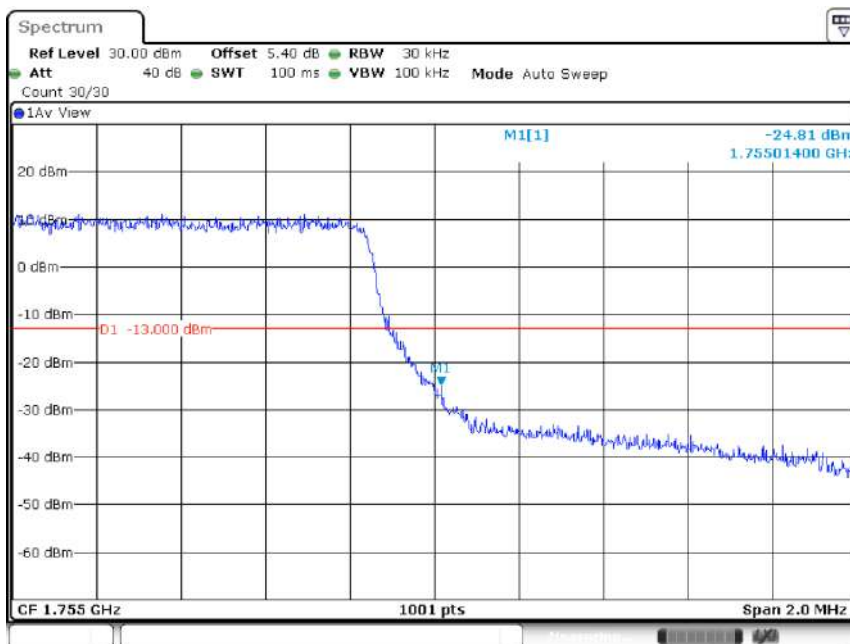


Date: 22.OCT.2020 14:42:44



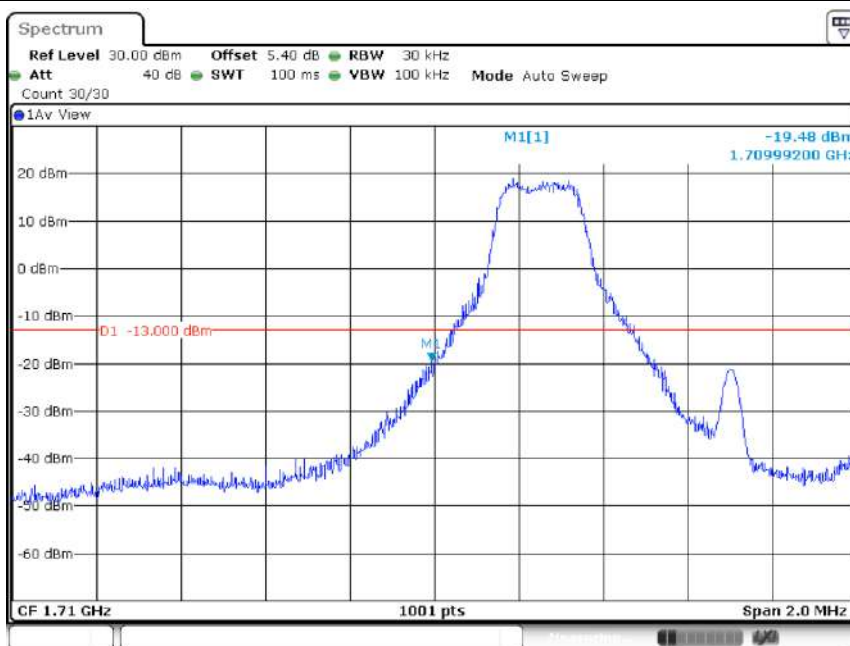
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 22.OCT.2020 14:43:17

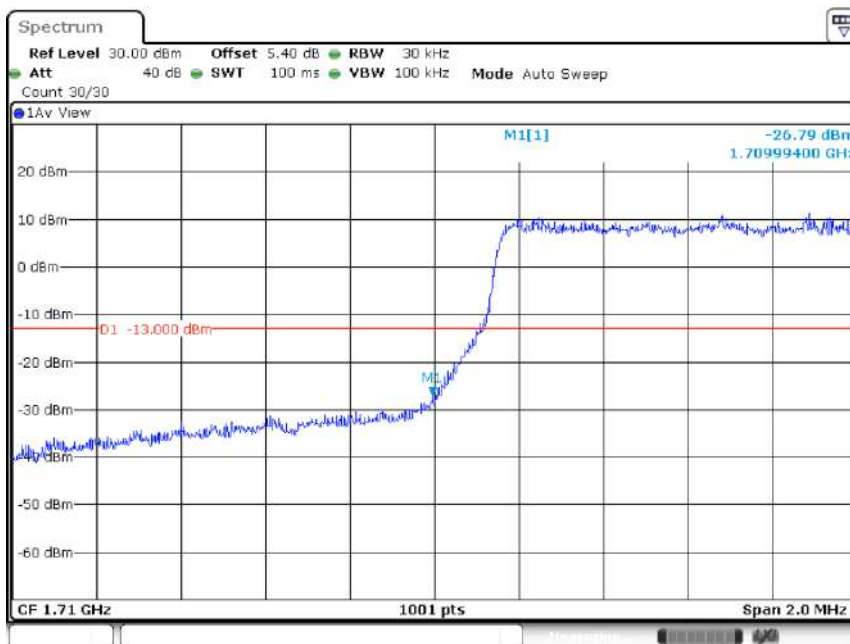
Band4-1.4MHz-64QAM-19957-1RB#0



Date: 22.OCT.2020 16:36:46

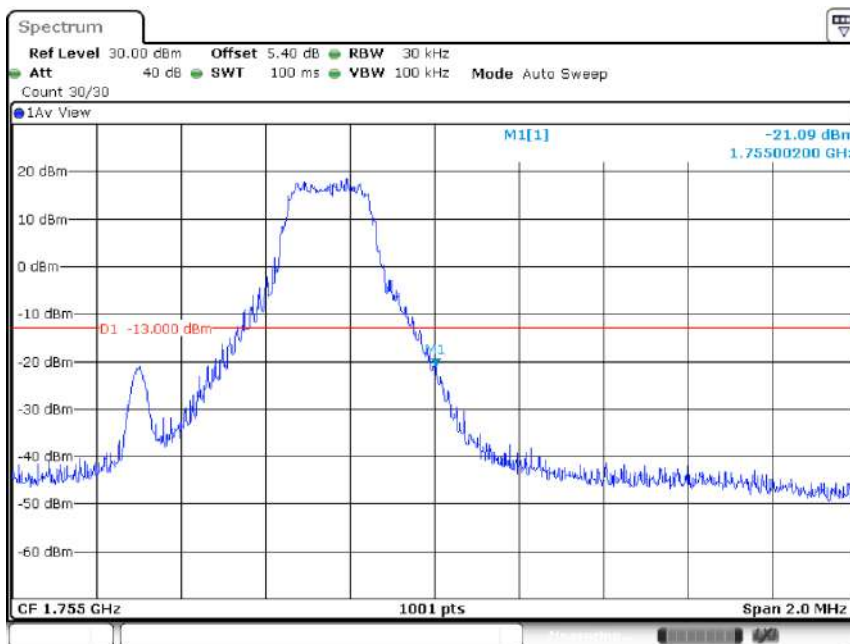


Band4-1.4MHz-64QAM-19957-6RB#0



Date: 22.OCT.2020 16:37:03

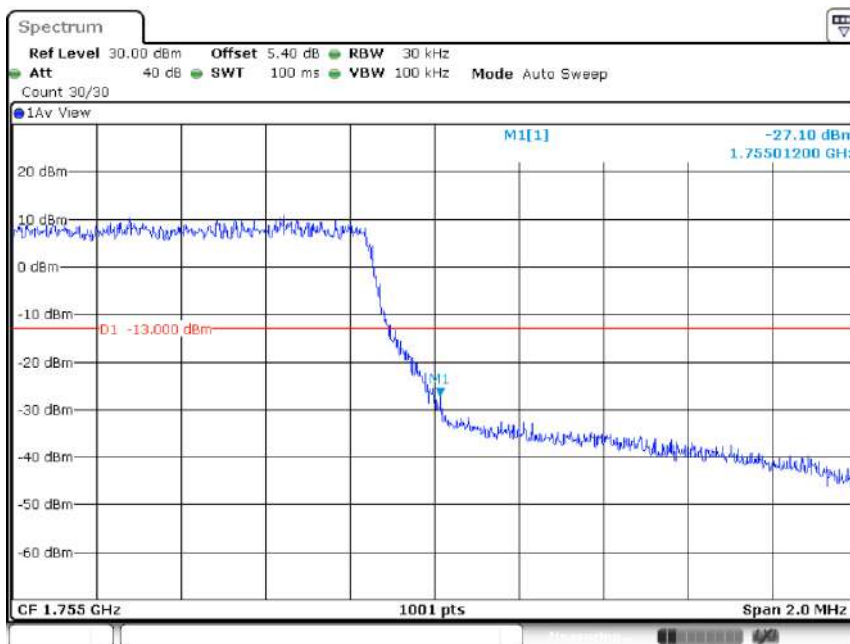
Band4-1.4MHz-64QAM-20393-1RB#5



Date: 22.OCT.2020 16:37:28

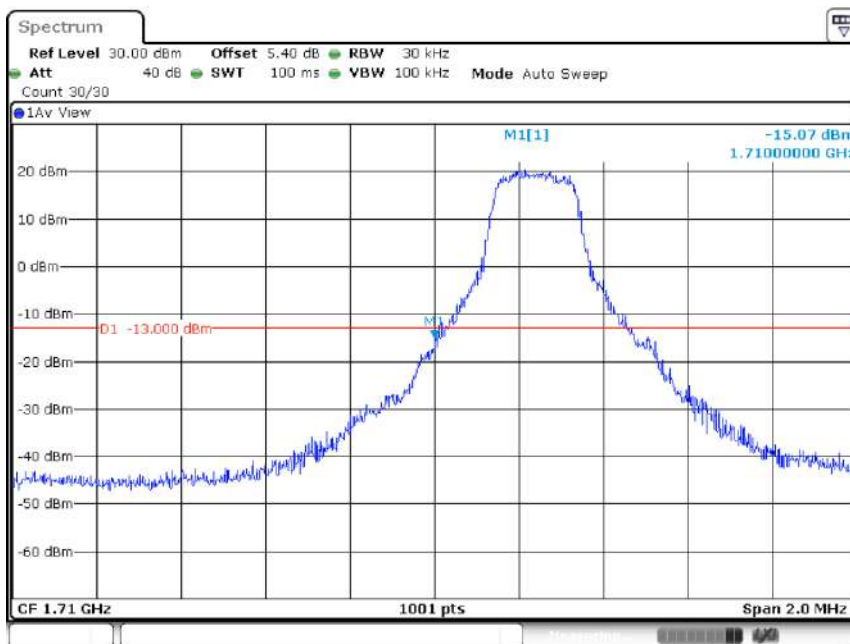


Band4-1.4MHz-64QAM-20393-6RB#0



Date: 22.OCT.2020 16:37:44

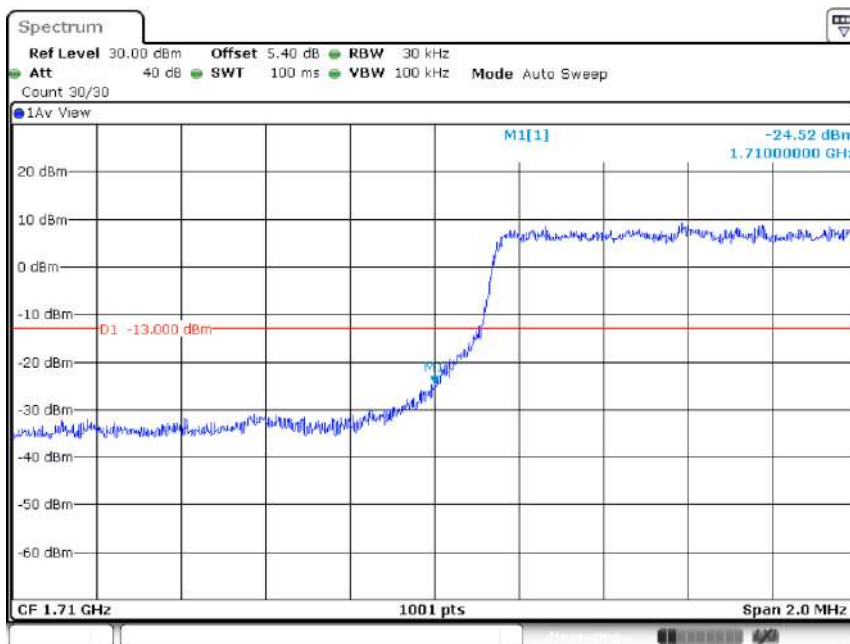
Band4-3MHz-QPSK-19965-1RB#0



Date: 22.OCT.2020 14:43:44

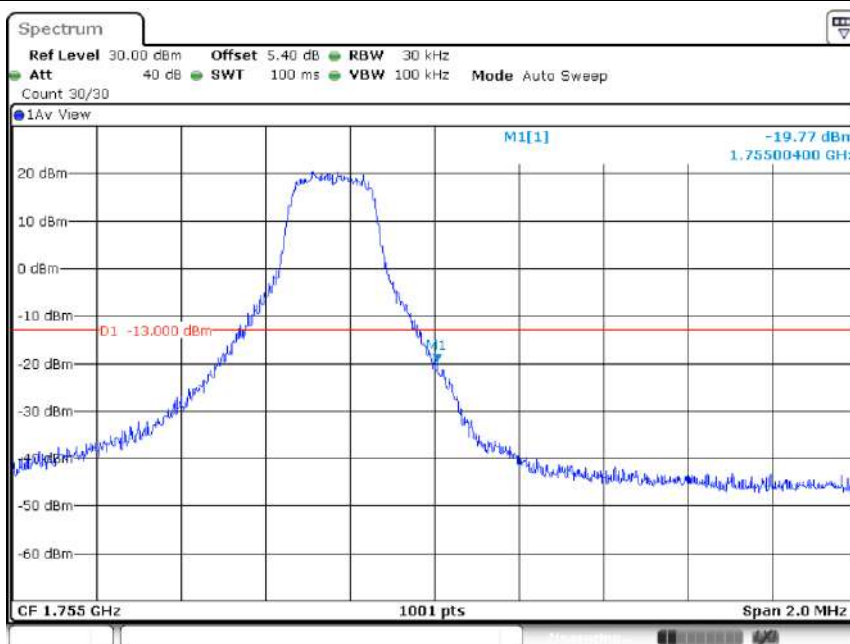


Band4-3MHz-QPSK-19965-15RB#0



Date: 22.OCT.2020 14:44:17

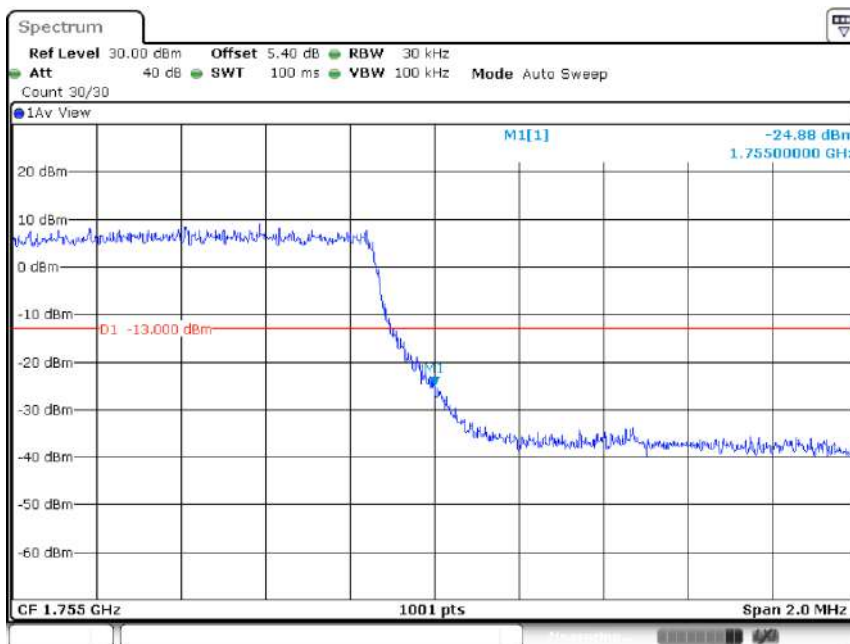
Band4-3MHz-QPSK-20385-1RB#14



Date: 22.OCT.2020 14:44:58

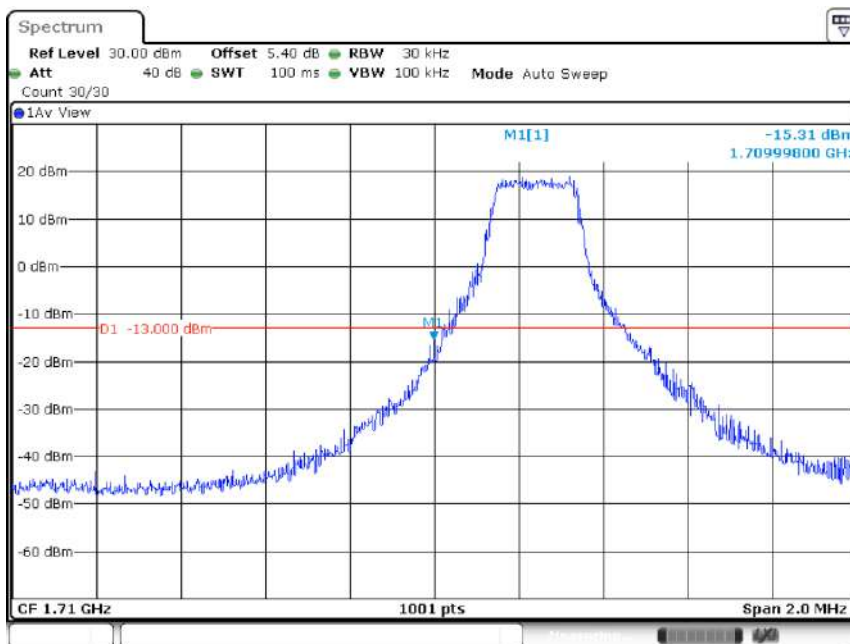


Band4-3MHz-QPSK-20385-15RB#0



Date: 22.OCT.2020 14:45:31

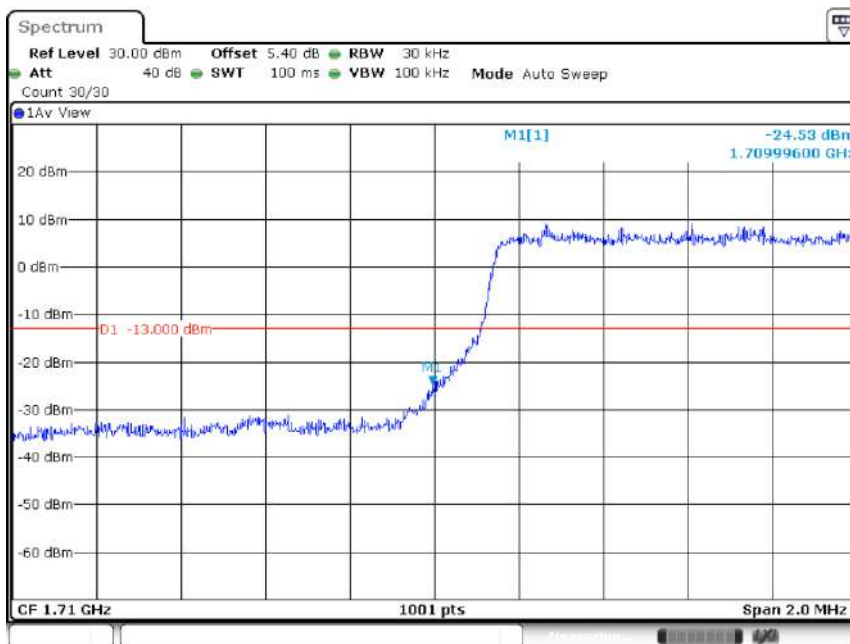
Band4-3MHz-16QAM-19965-1RB#0



Date: 22.OCT.2020 14:44:00

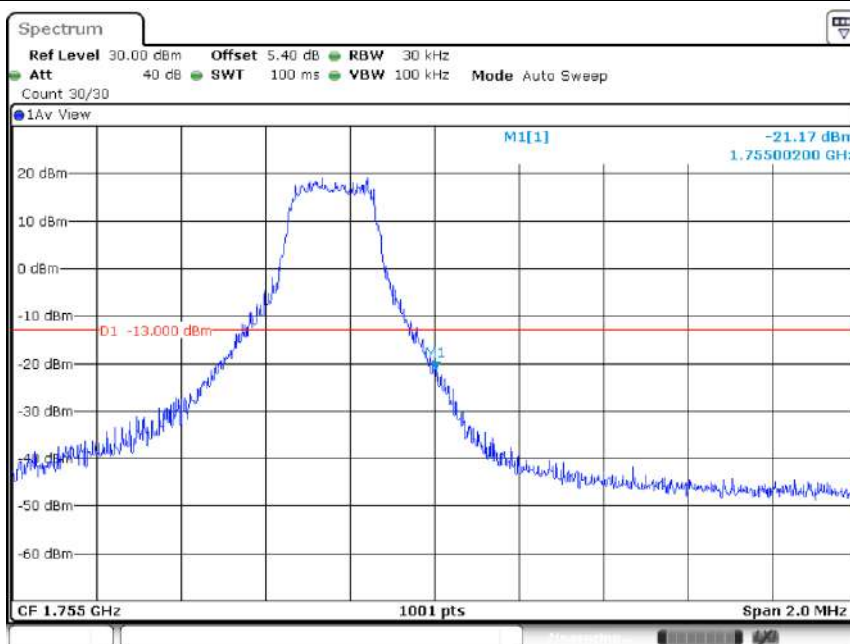


Band4-3MHz-16QAM-19965-15RB#0



Date: 22.OCT.2020 14:44:33

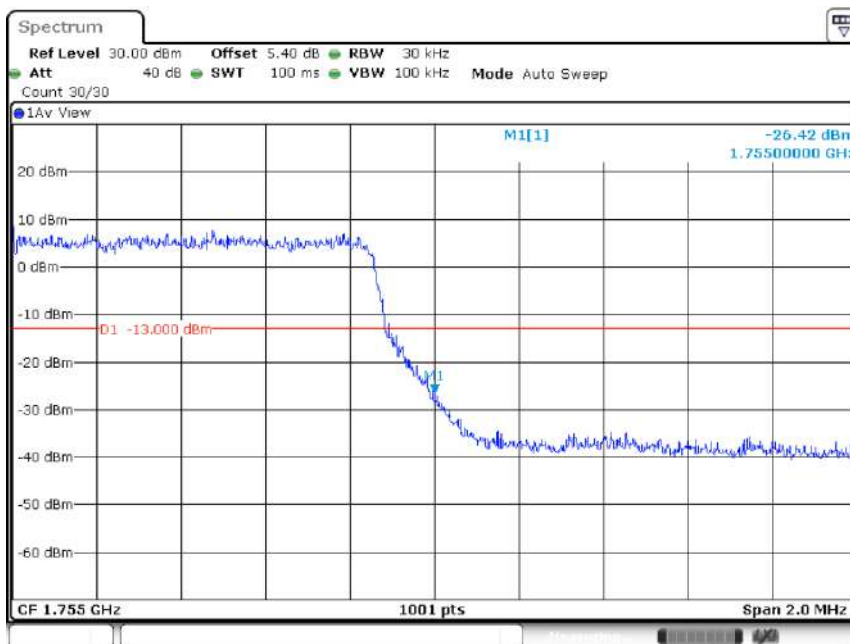
Band4-3MHz-16QAM-20385-1RB#14



Date: 22.OCT.2020 14:45:14

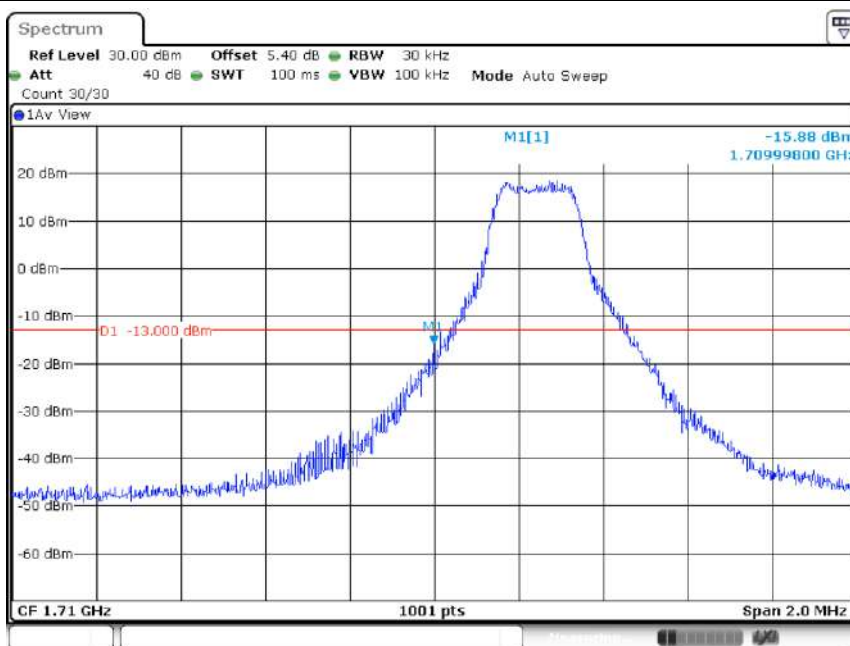


Band4-3MHz-16QAM-20385-15RB#0



Date: 22.OCT.2020 14:45:47

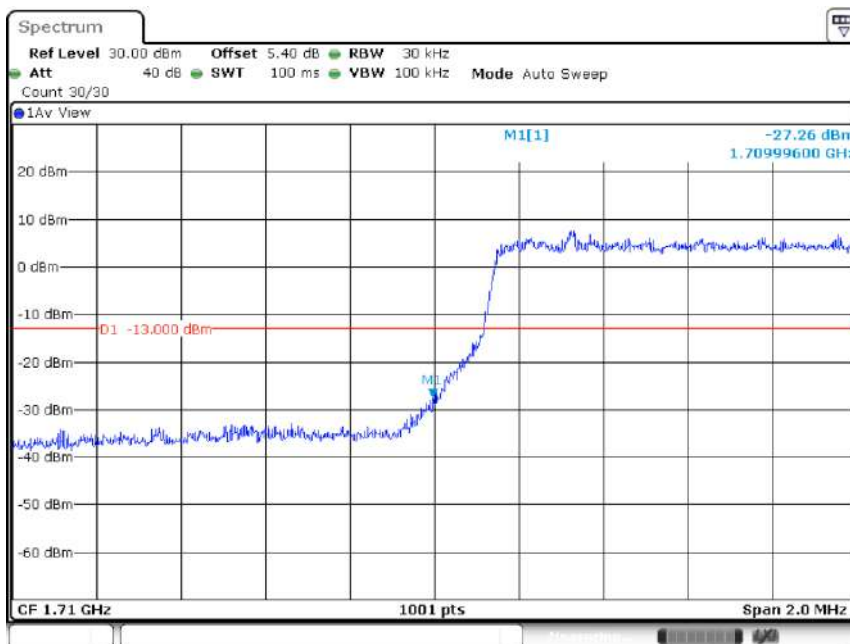
Band4-3MHz-64QAM-19965-1RB#0



Date: 22.OCT.2020 16:38:11

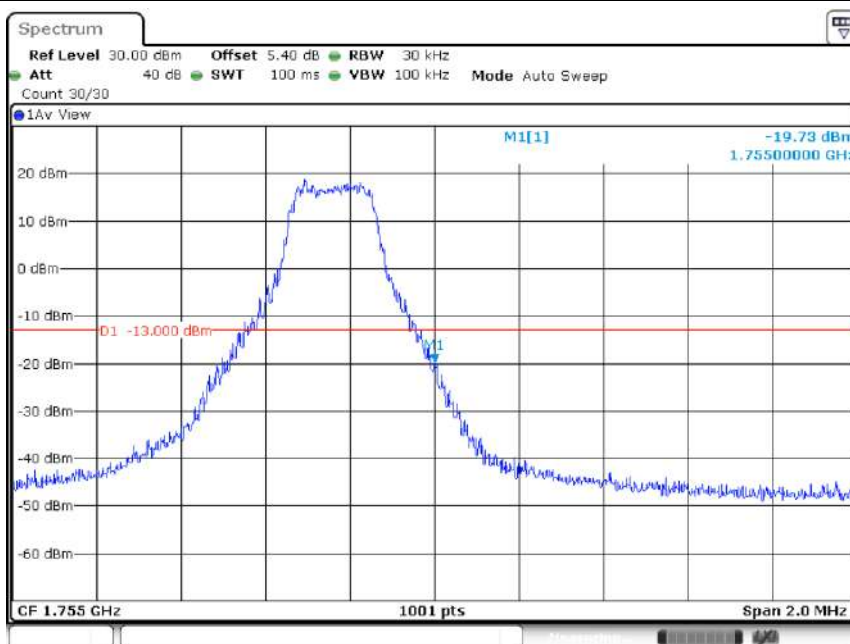


Band4-3MHz-64QAM-19965-15RB#0



Date: 22 OCT.2020 16:38:27

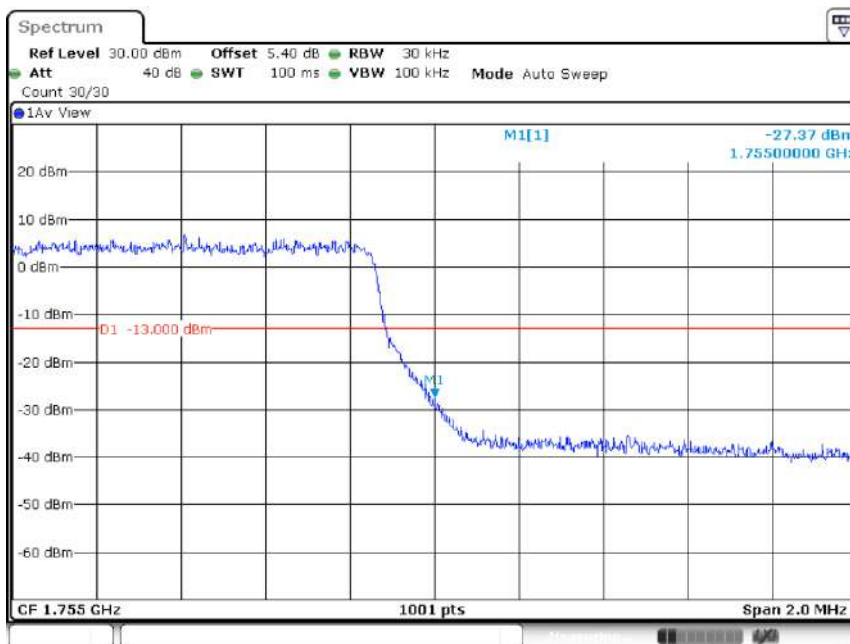
Band4-3MHz-64QAM-20385-1RB#14



Date: 22 OCT.2020 16:38:52

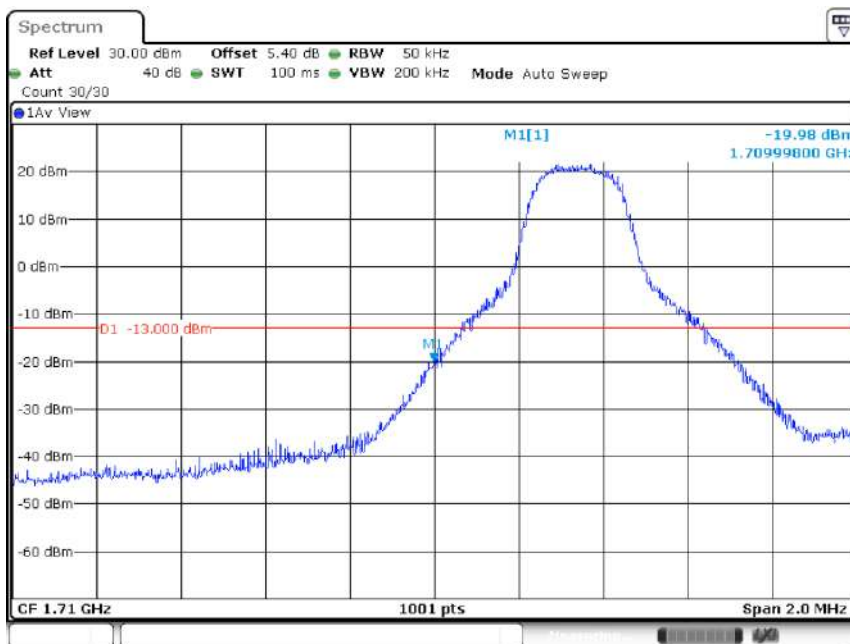


Band4-3MHz-64QAM-20385-15RB#0



Date: 22.OCT.2020 16:39:09

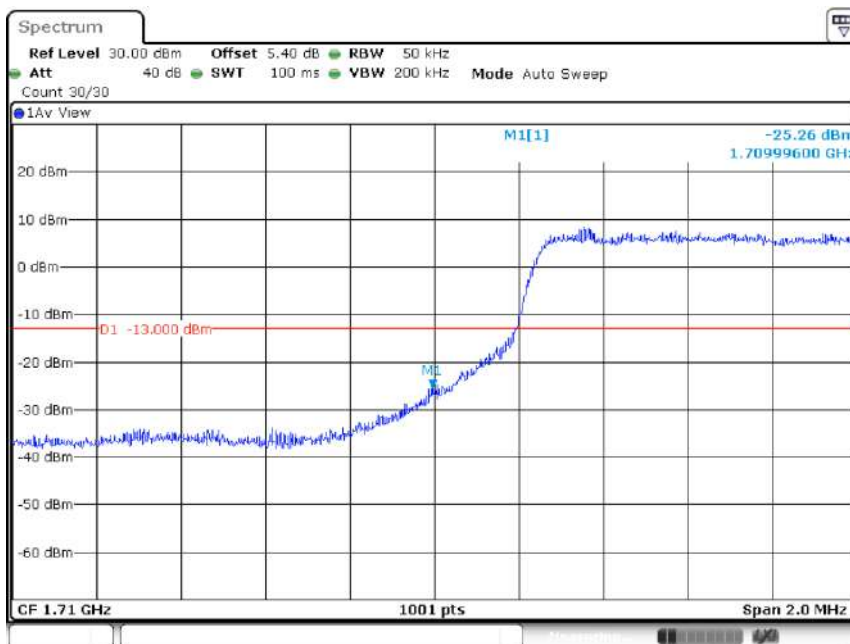
Band4-5MHz-QPSK-19975-1RB#0



Date: 22.OCT.2020 14:46:16

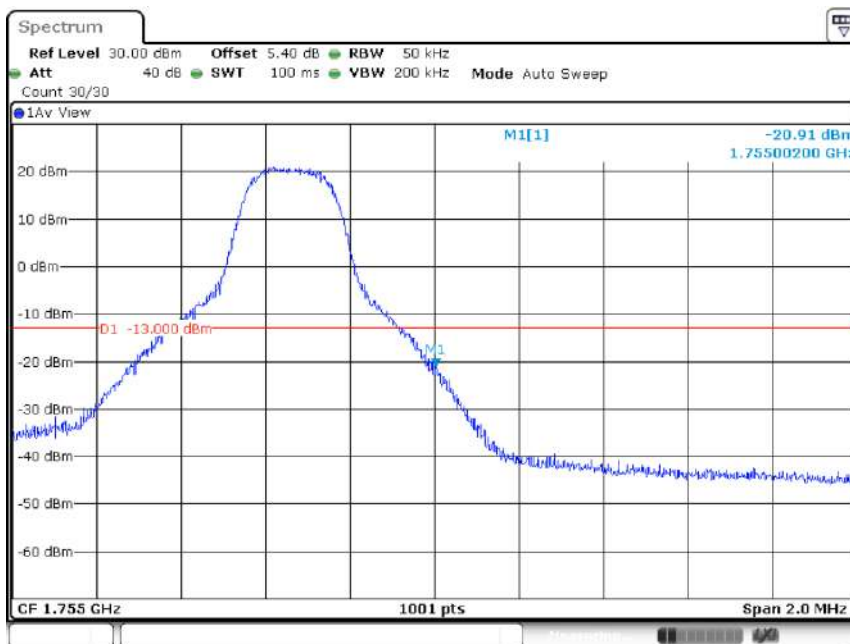


Band4-5MHz-QPSK-19975-25RB#0



Date: 22.OCT.2020 14:46:52

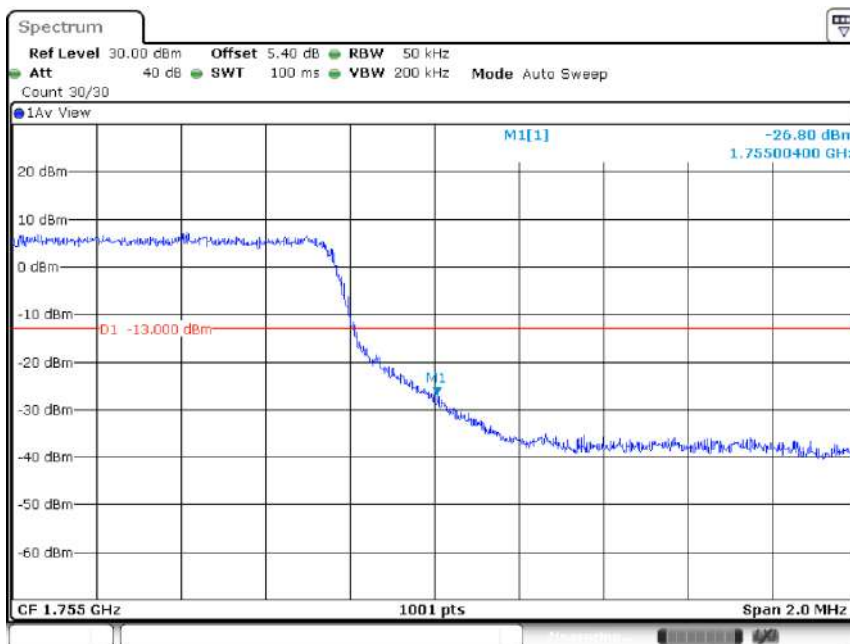
Band4-5MHz-QPSK-20375-1RB#24



Date: 22.OCT.2020 14:47:33

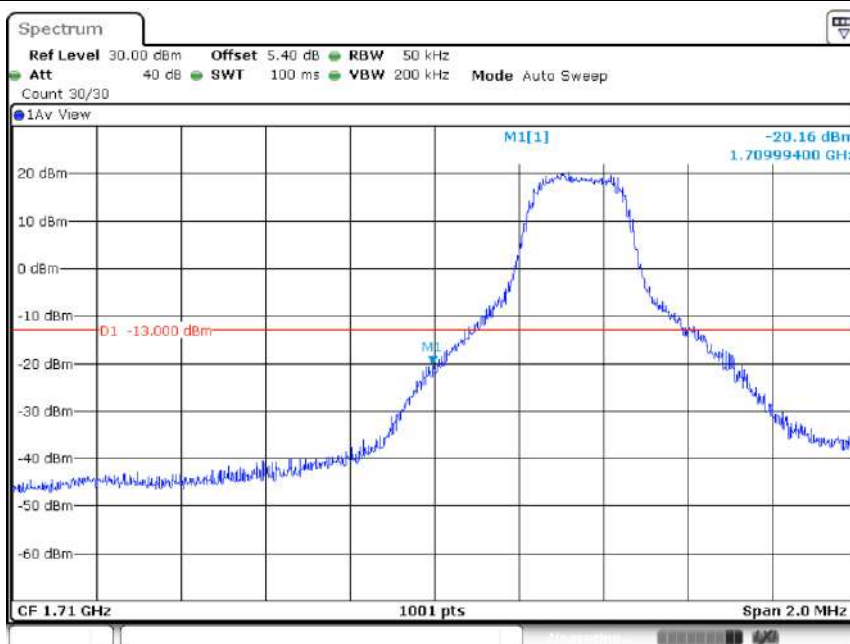


Band4-5MHz-QPSK-20375-25RB#0



Date: 22.OCT.2020 14:48:06

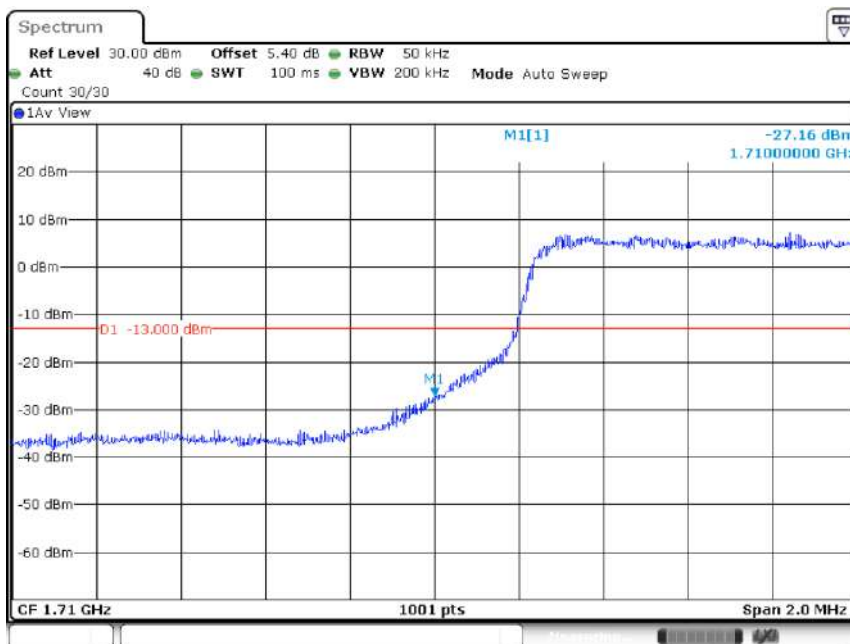
Band4-5MHz-16QAM-19975-1RB#0



Date: 22.OCT.2020 14:46:33

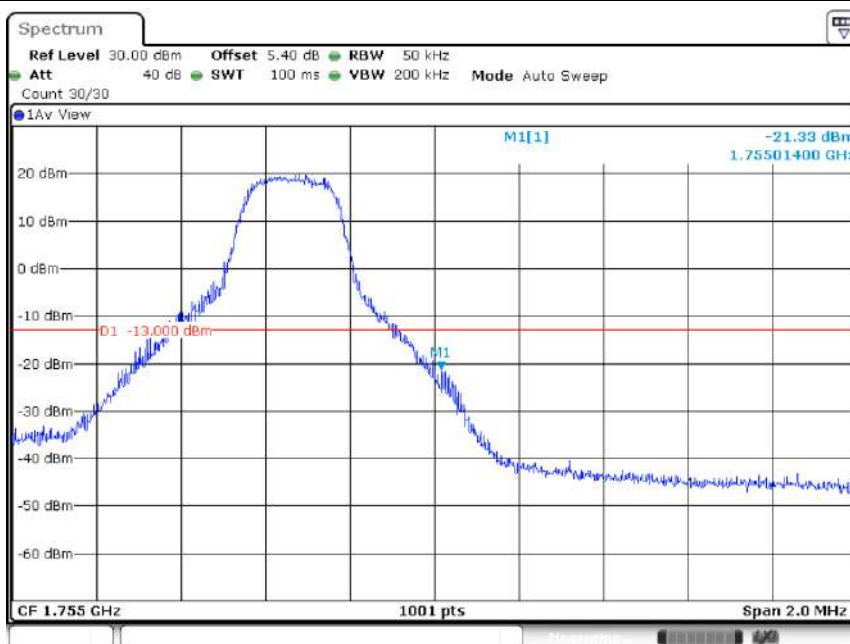


Band4-5MHz-16QAM-19975-25RB#0



Date: 22.OCT.2020 14:47:08

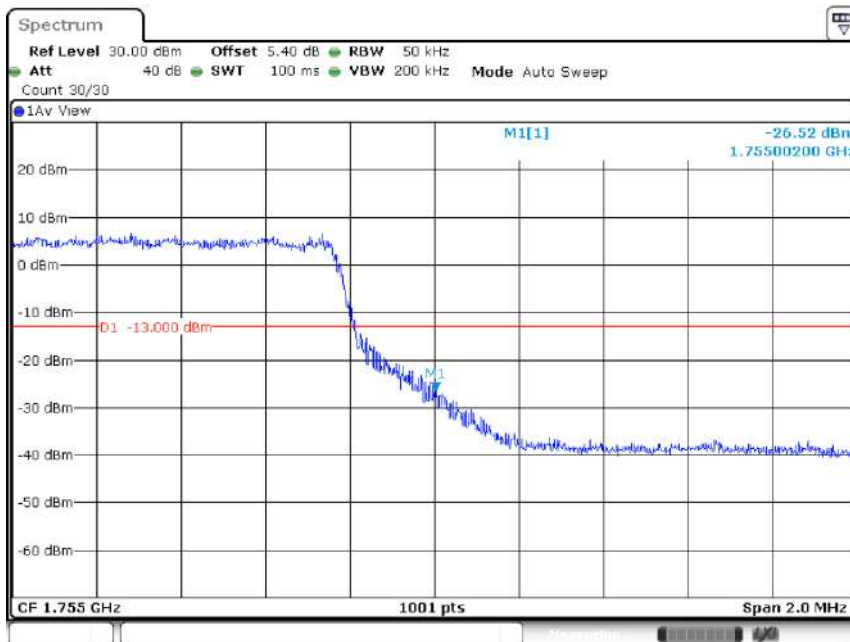
Band4-5MHz-16QAM-20375-1RB#24



Date: 22.OCT.2020 14:47:49

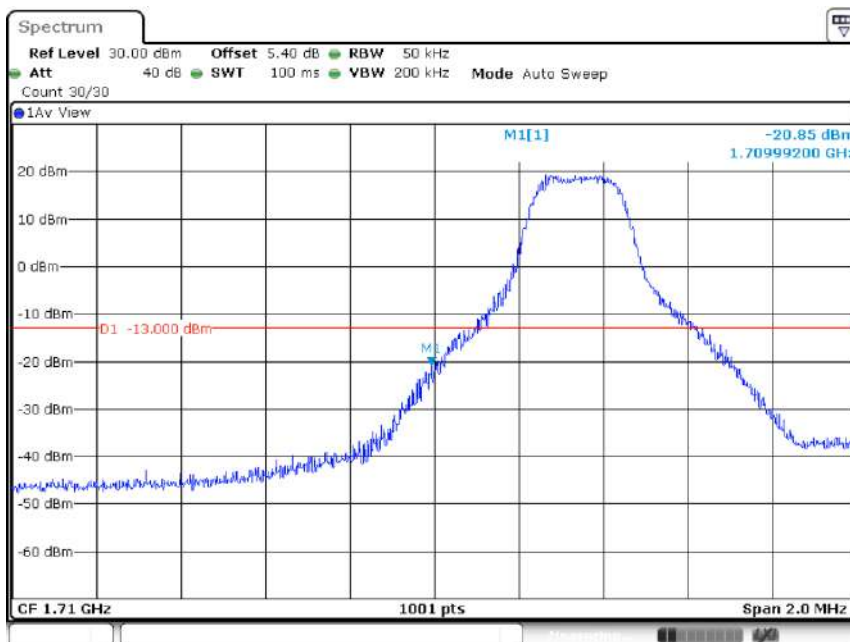


Band4-5MHz-16QAM-20375-25RB#0



Date: 22.OCT.2020 14:48:23

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



Date: 22.OCT.2020 16:39:35

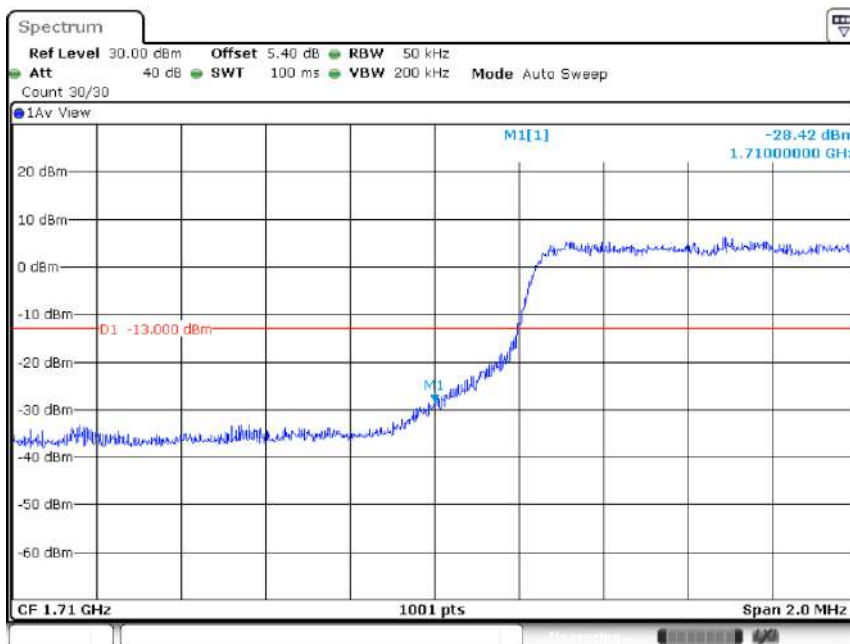


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

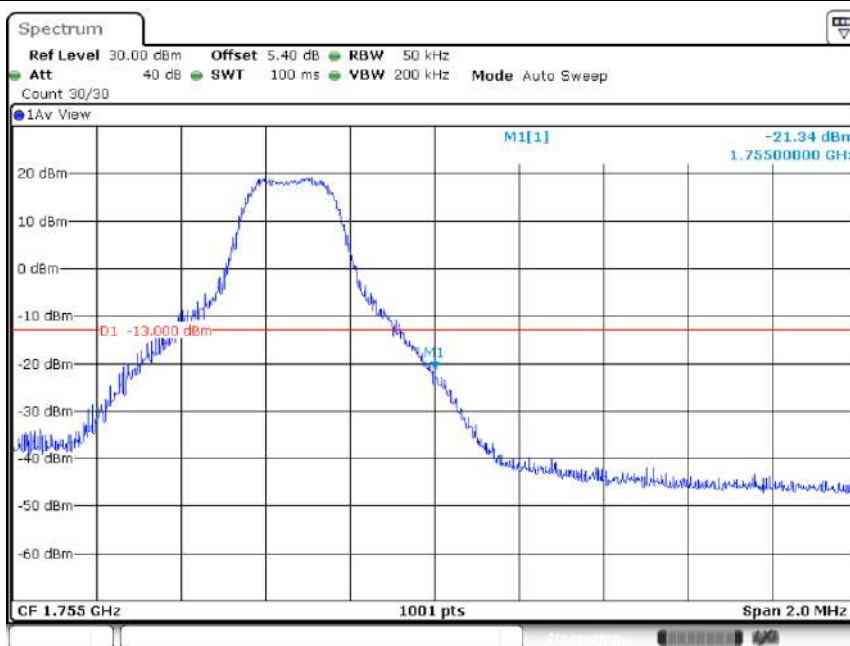
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 16:39:52

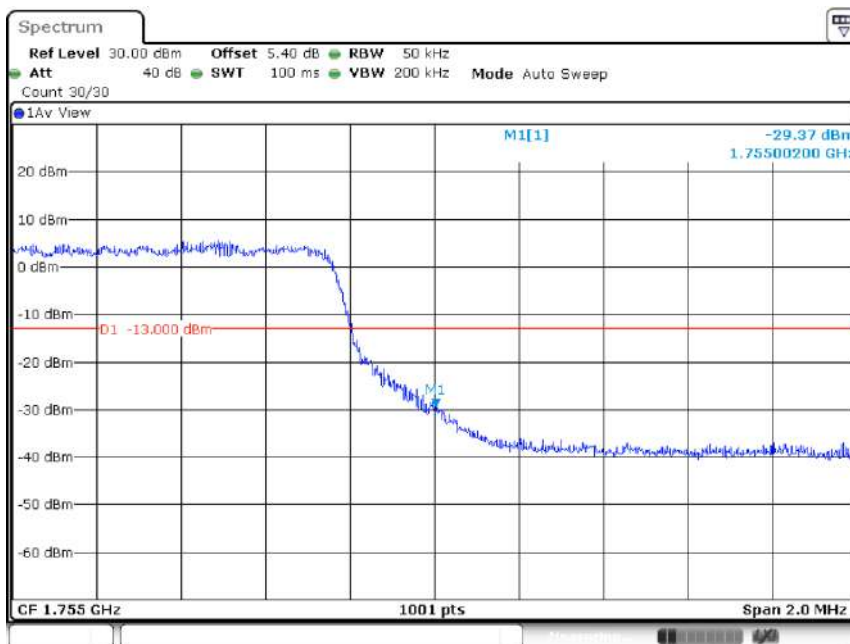
Band4-5MHz-64QAM-20375-1RB#24



Date: 22.OCT.2020 16:40:17



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



Date: 22.OCT.2020 16:40:33

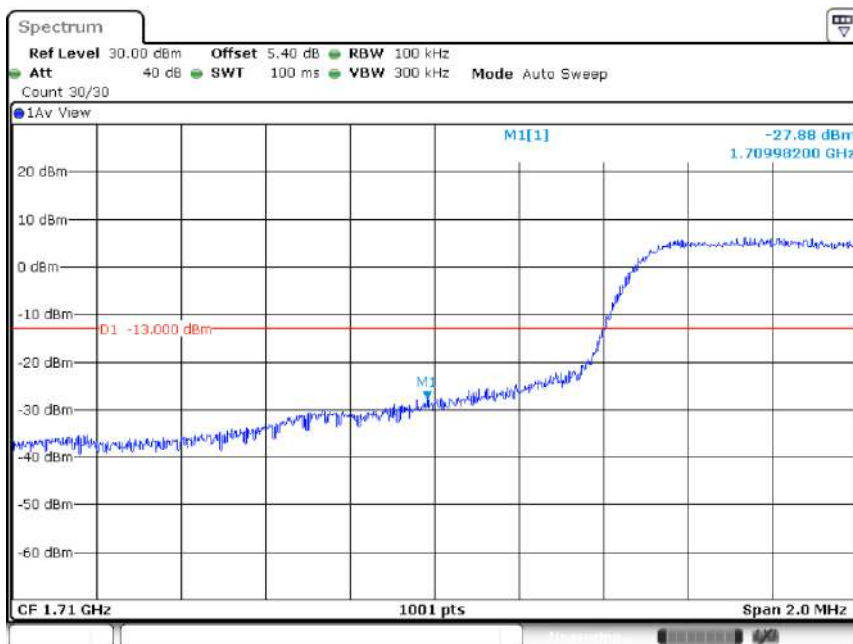
Band4-10MHz-QPSK-20000-1RB#0



Date: 22.OCT.2020 14:48:49

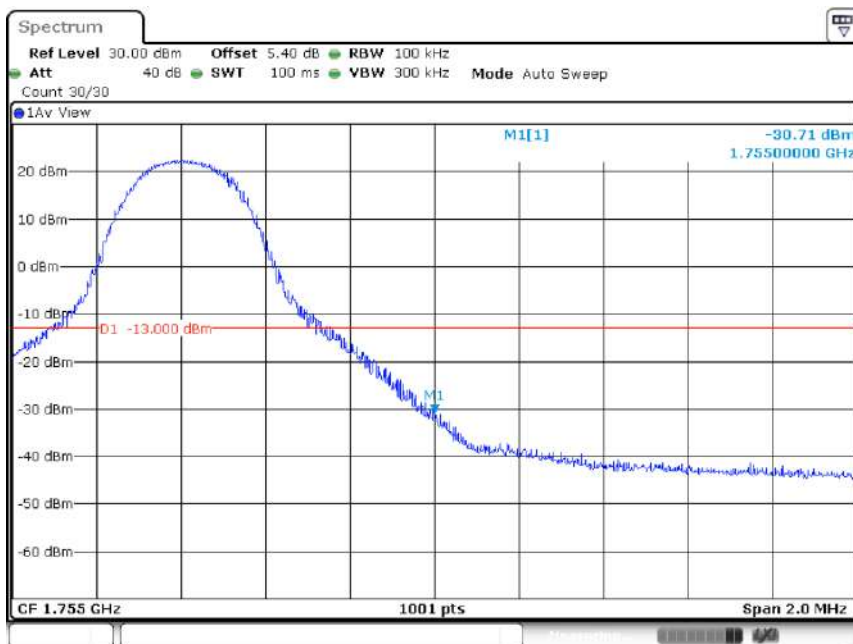


Band4-10MHz-QPSK-20000-50RB#0



Date: 22.OCT.2020 14:49:22

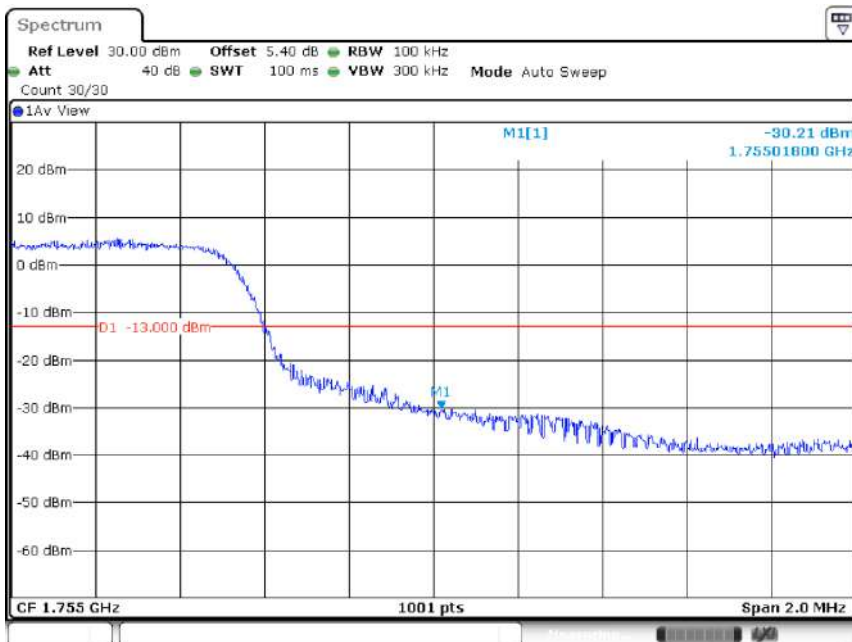
Band4-10MHz-QPSK-20350-1RB#49



Date: 22.OCT.2020 14:50:03

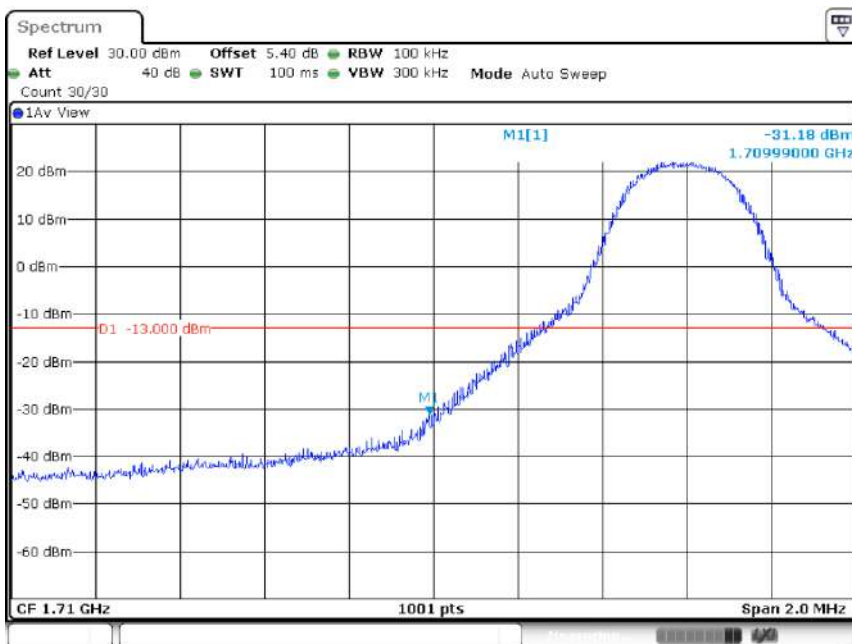


Band4-10MHz-QPSK-20350-50RB#0



Date: 22.OCT.2020 14:50:37

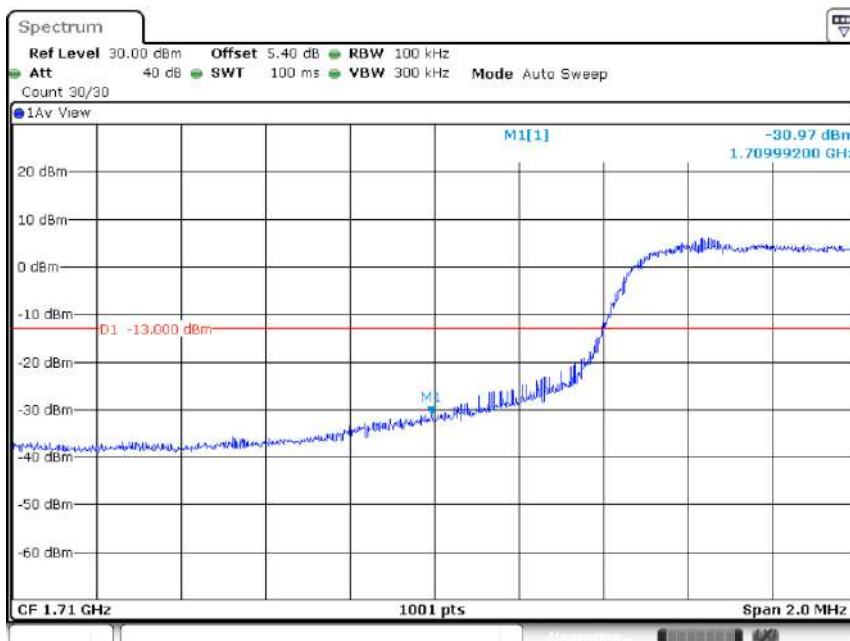
Band4-10MHz-16QAM-20000-1RB#0



Date: 22.OCT.2020 14:49:06

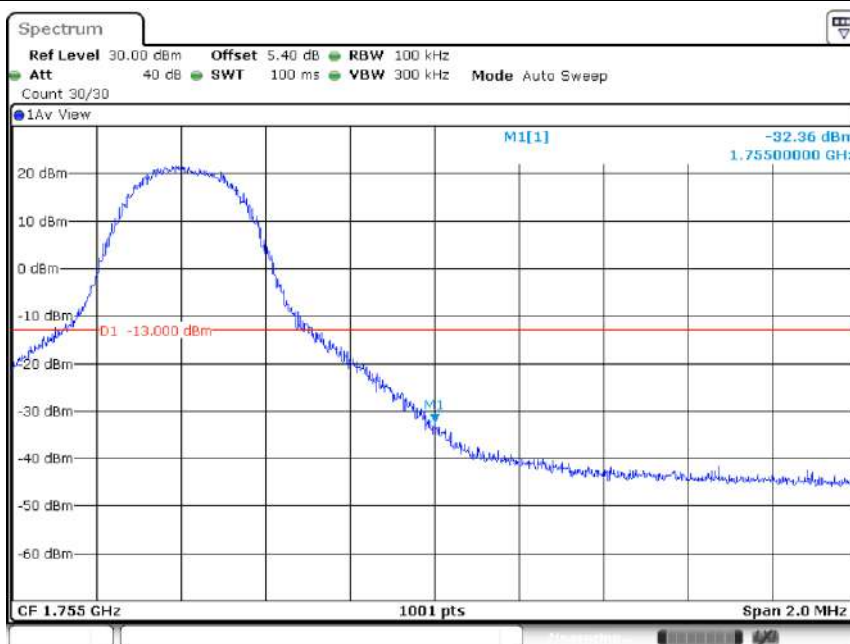


Band4-10MHz-16QAM-20000-50RB#0



Date: 22 OCT 2020 14:49:39

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



Date: 22 OCT 2020 14:50:20



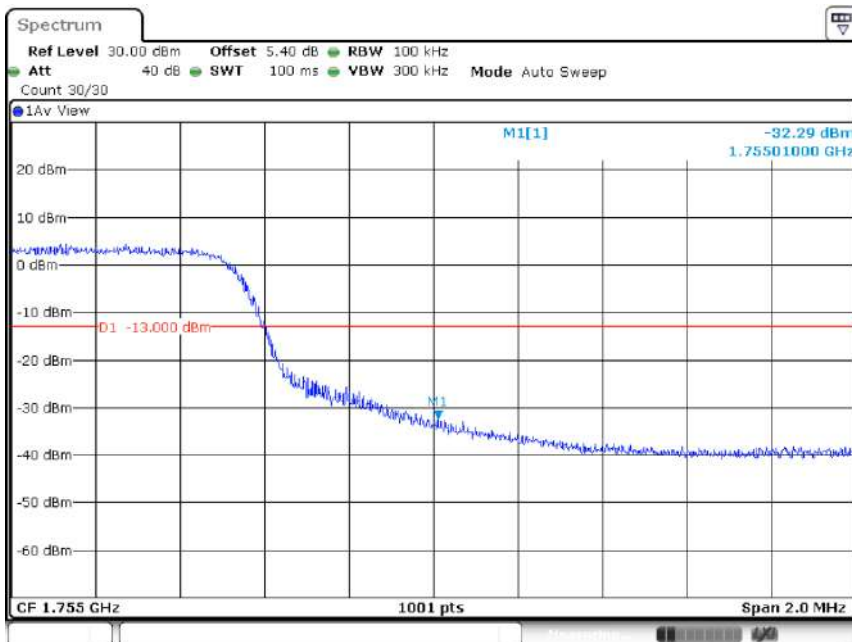
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Technical Service Engineering Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>, and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or further disseminated in any form without the prior written consent of the Company. Any use 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)83071444.

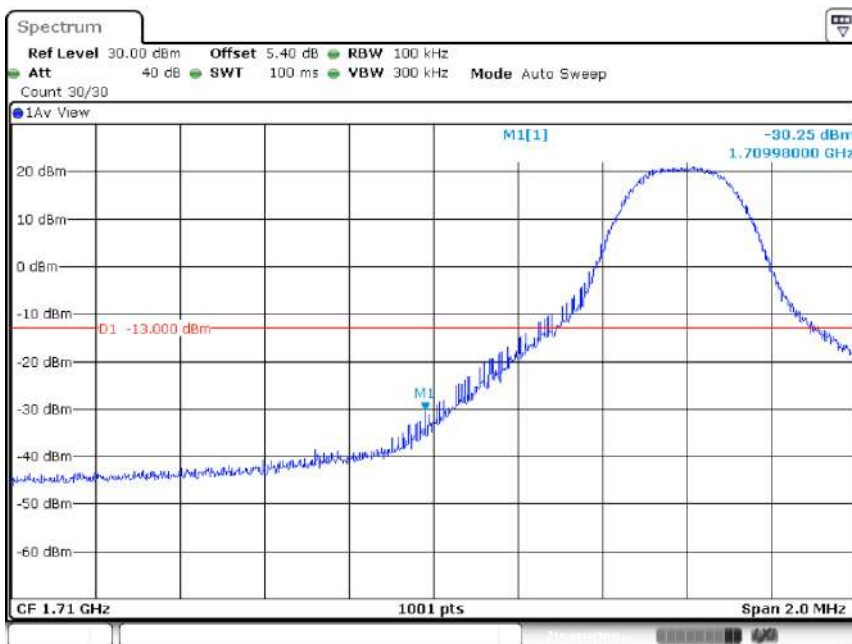
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 14:50:53

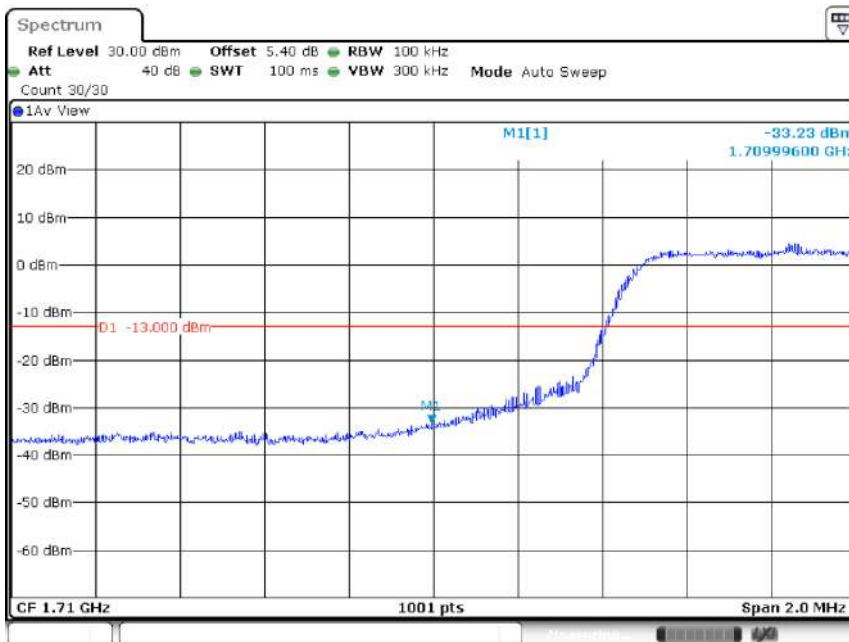
Band4-10MHz-64QAM-20000-1RB#0



Date: 22.OCT.2020 16:43:12

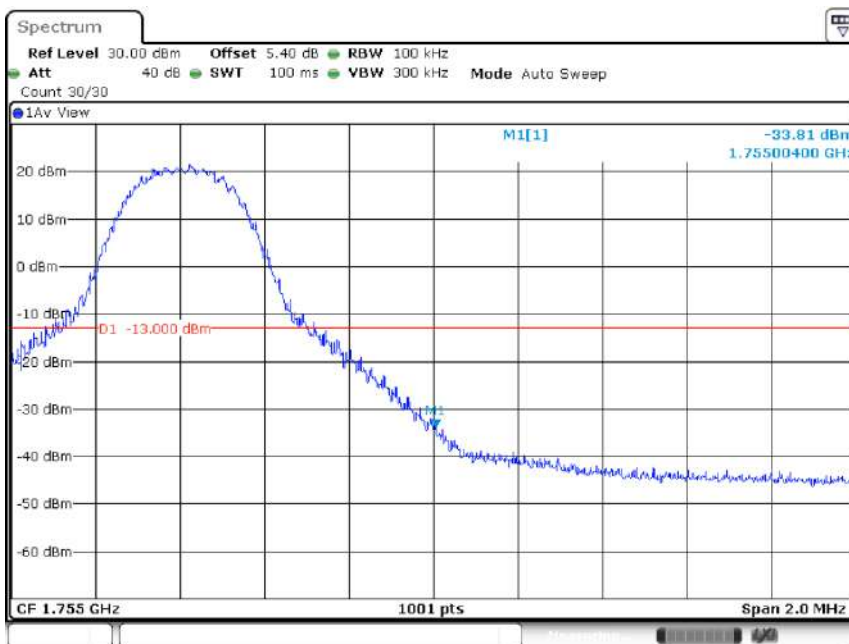


Band4-10MHz-64QAM-20000-50RB#0



Date: 22.OCT.2020 16:43:28

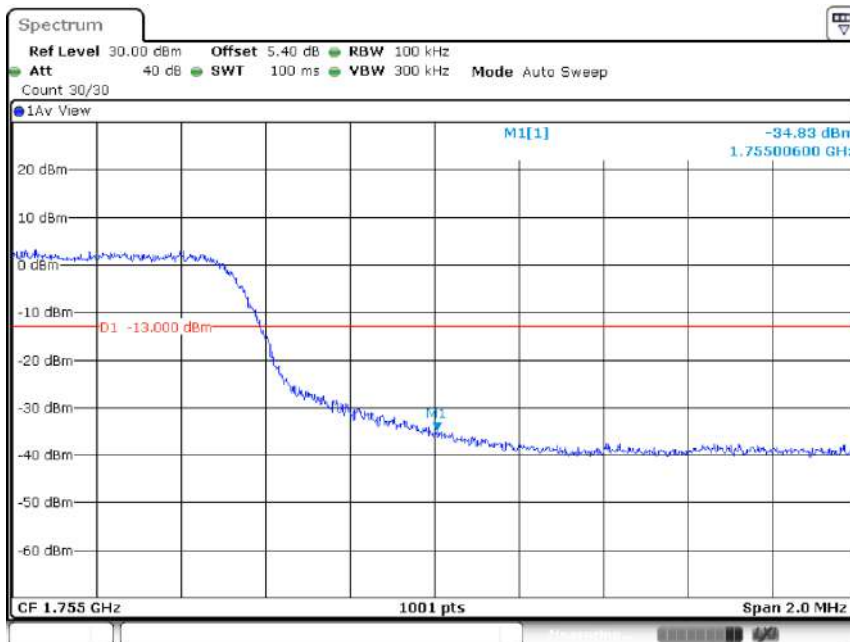
Band4-10MHz-64QAM-20350-1RB#49



Date: 22.OCT.2020 16:43:53

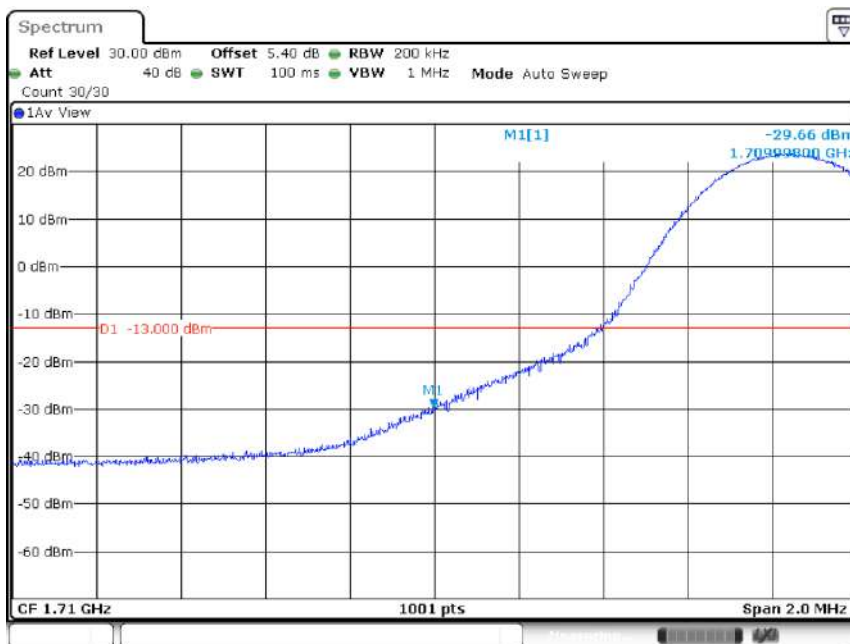


Band4-10MHz-64QAM-20350-50RB#0



Date: 22.OCT.2020 16:44:10

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



Date: 22.OCT.2020 14:51:21

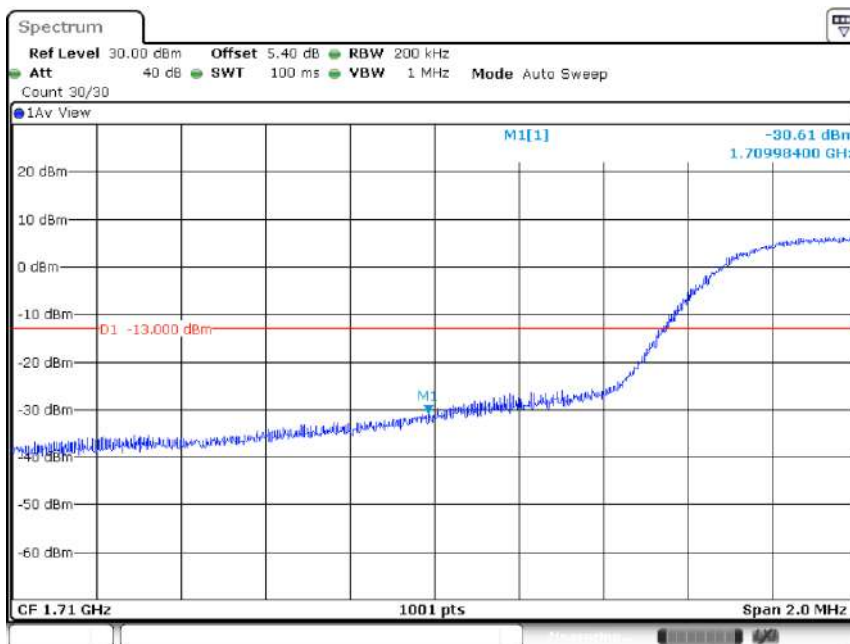


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

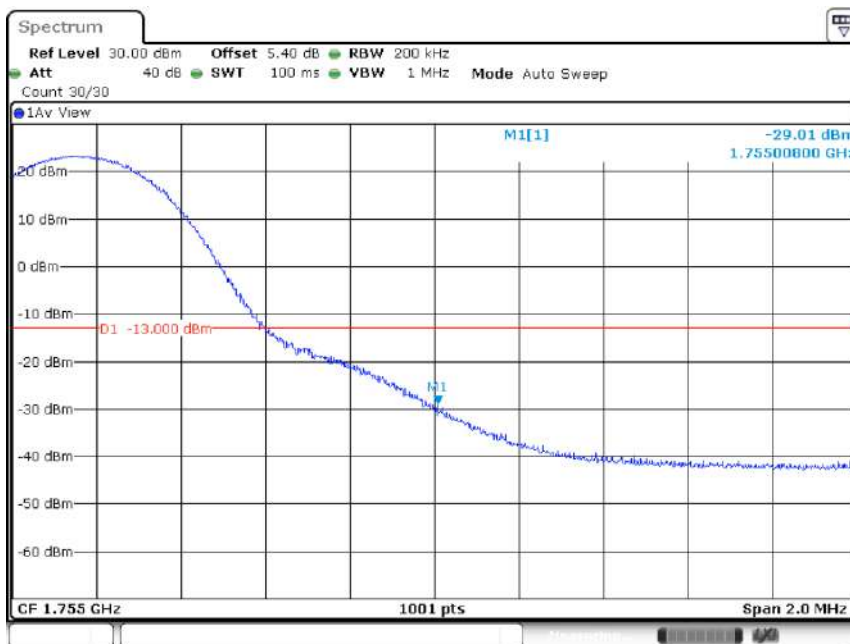
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 14:51:55

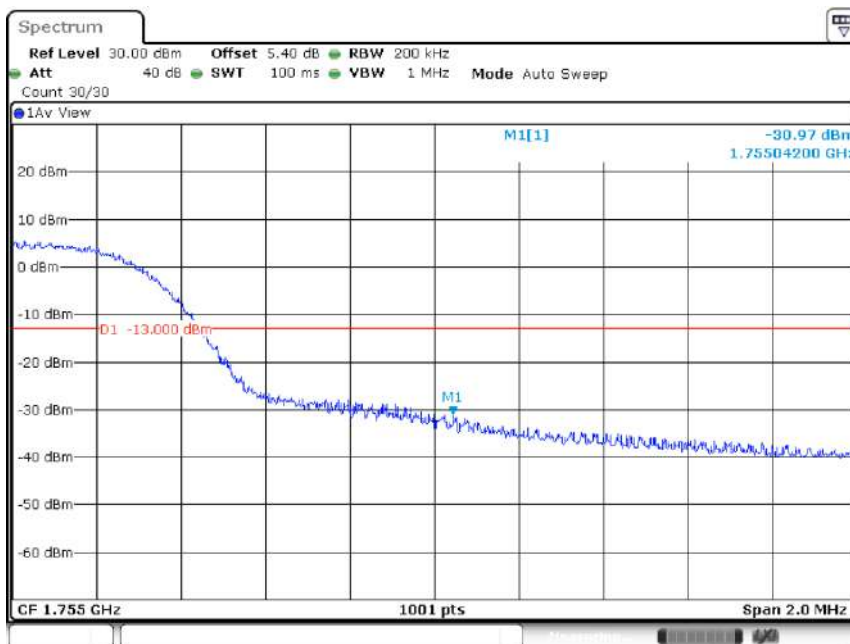
Band4-15MHz-QPSK-20325-1RB#74



Date: 22.OCT.2020 14:52:36



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



Date: 22.OCT.2020 14:53:10

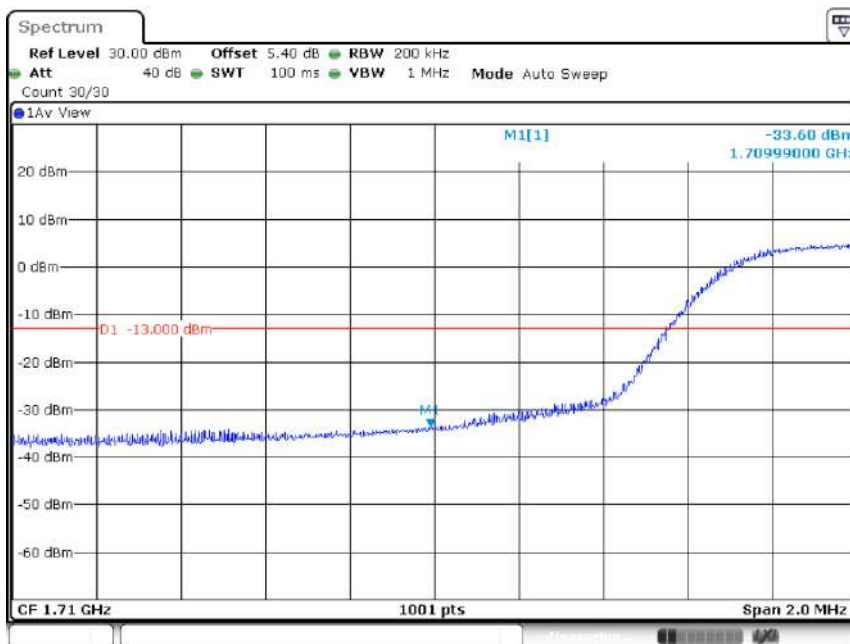
Band4-15MHz-16QAM-20025-1RB#0



Date: 22.OCT.2020 14:51:38



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



Date: 22.OCT.2020 14:52:11

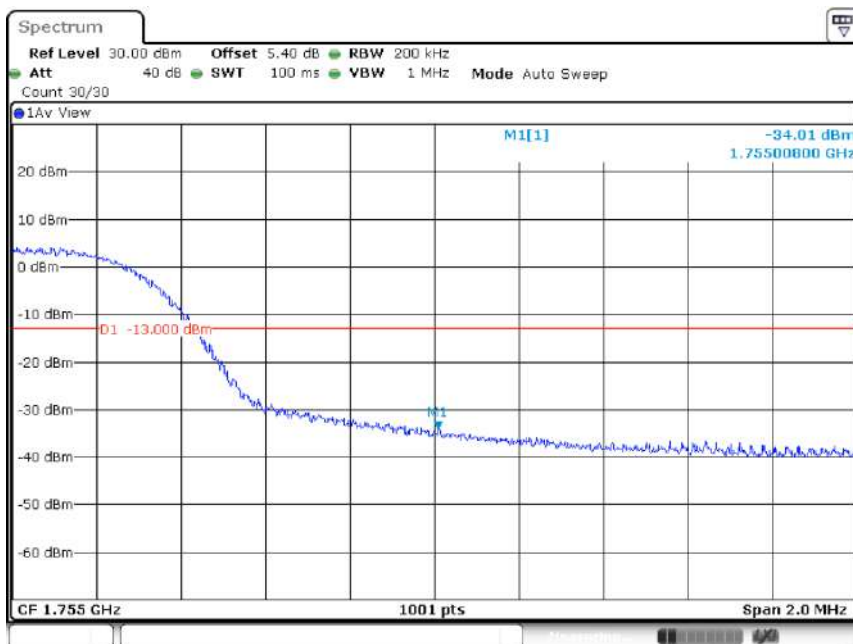
Band4-15MHz-16QAM-20325-1RB#74



Date: 22.OCT.2020 14:52:52



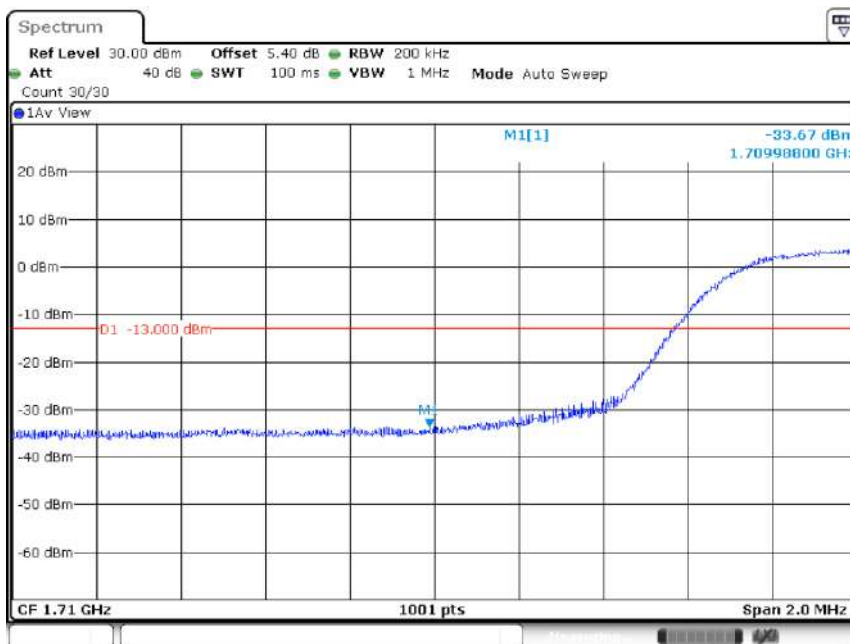
Band4-15MHz-16QAM-20325-75RB#0



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

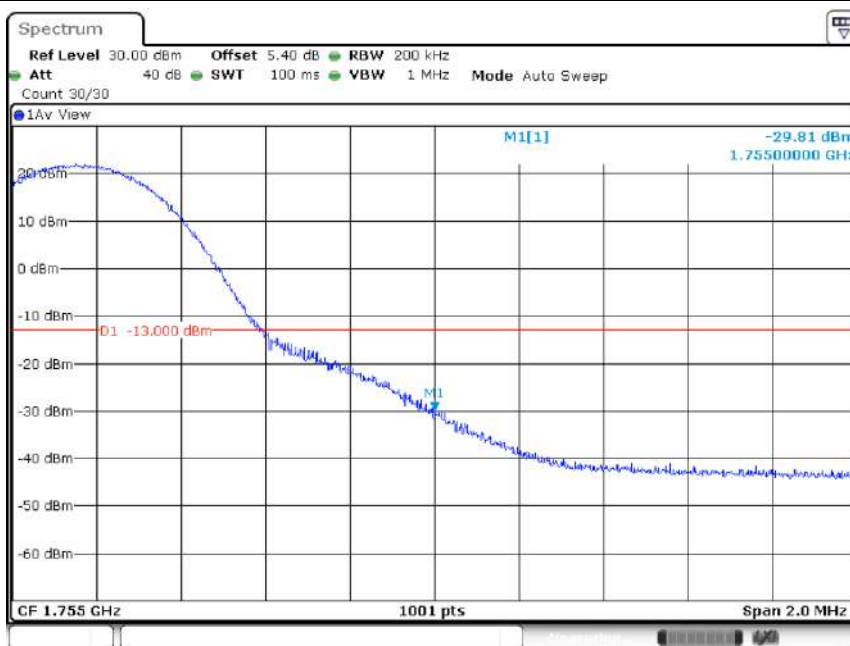


Band4-15MHz-64QAM-20025-75RB#0



Date: 22.OCT.2020 16:44:53

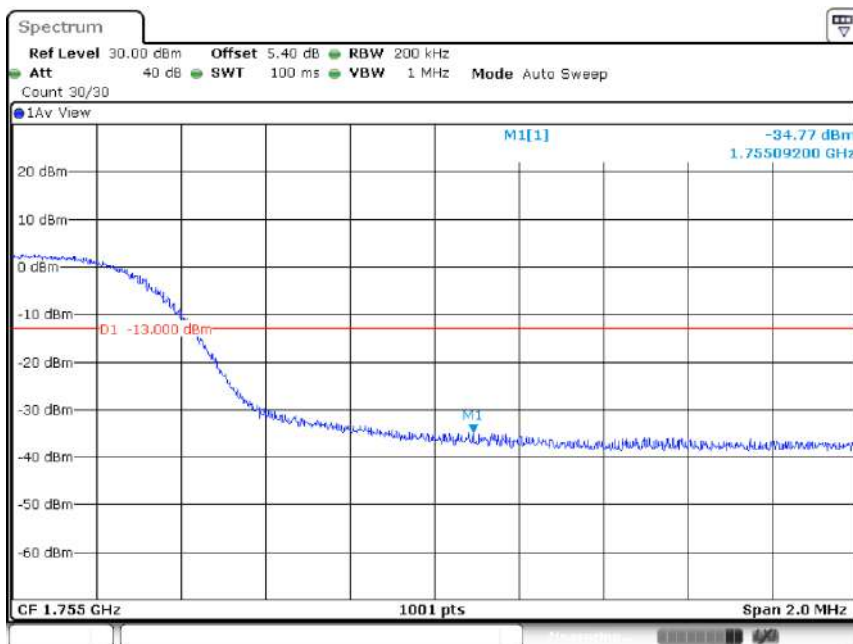
Band4-15MHz-64QAM-20325-1RB#74



Date: 22.OCT.2020 16:45:18

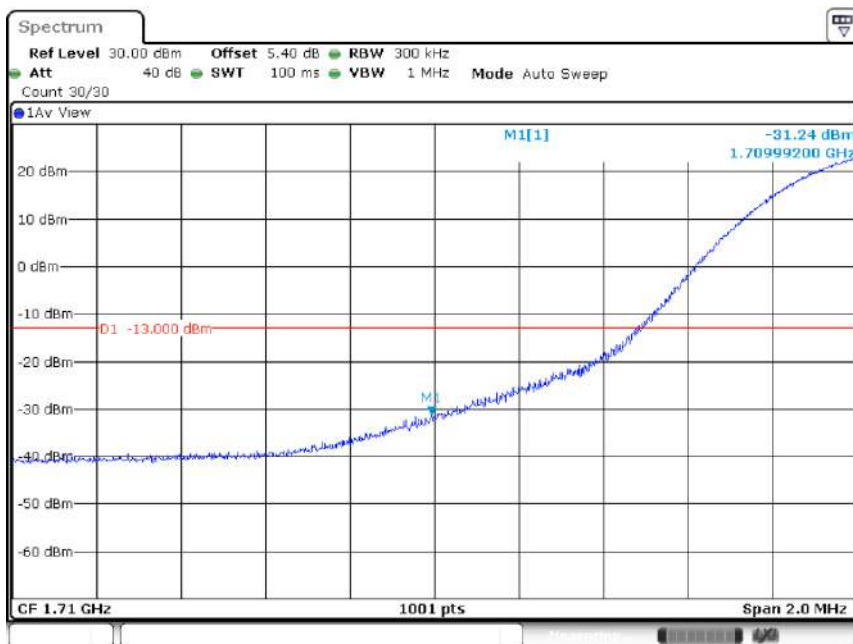


Band4-15MHz-64QAM-20325-75RB#0



Date: 22.OCT.2020 16:45:35

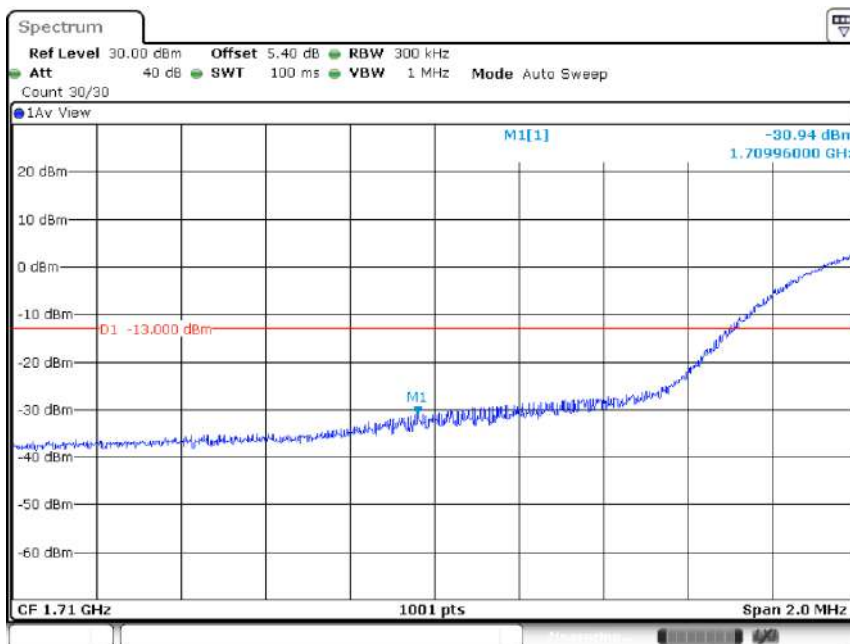
Band4-20MHz-QPSK-20050-1RB#0



Date: 22.OCT.2020 14:53:52

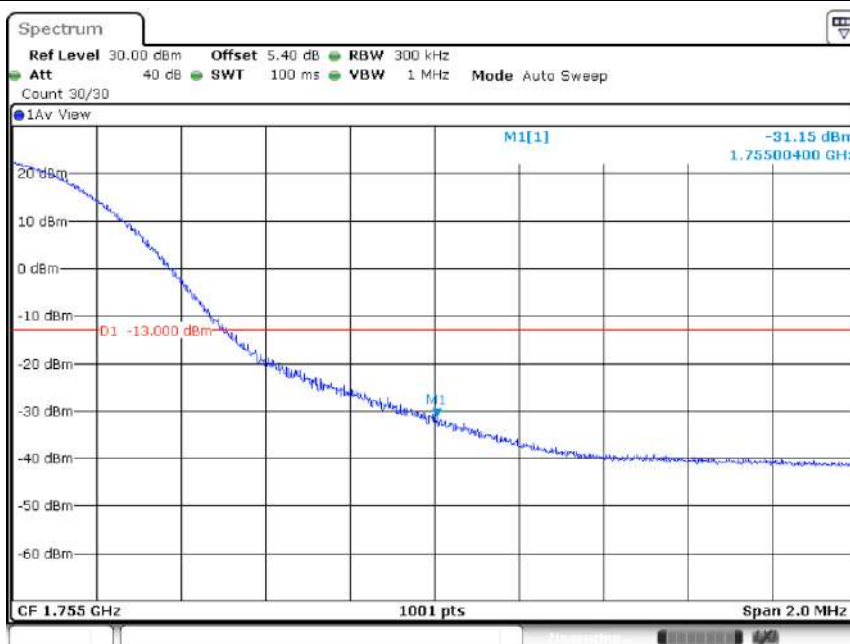


Band4-20MHz-QPSK-20050-100RB#0



Date: 22.OCT.2020 14:54:25

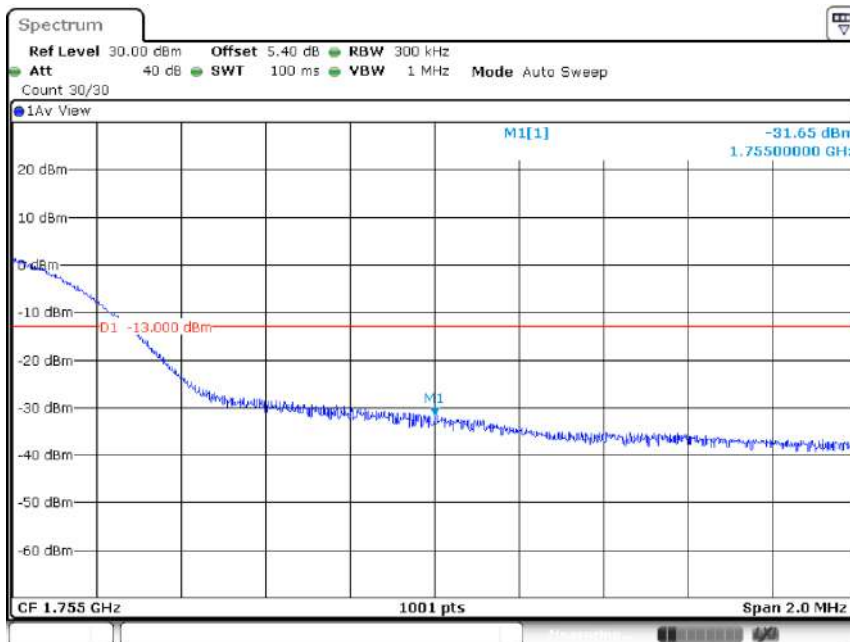
Band4-20MHz-QPSK-20300-1RB#99



Date: 22.OCT.2020 14:55:06

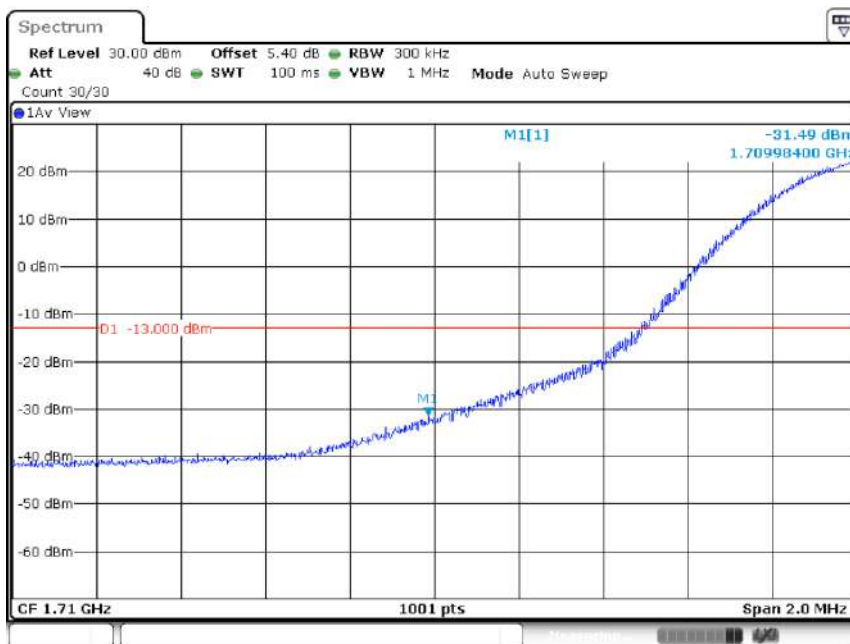


Band4-20MHz-QPSK-20300-100RB#0



Date: 22.OCT.2020 14:55:40

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

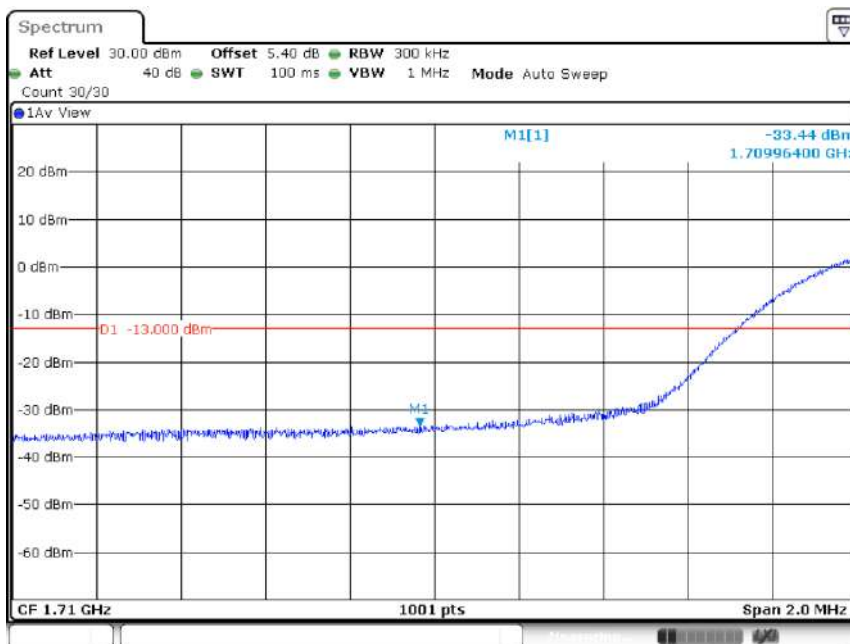


Date: 22.OCT.2020 14:54:09



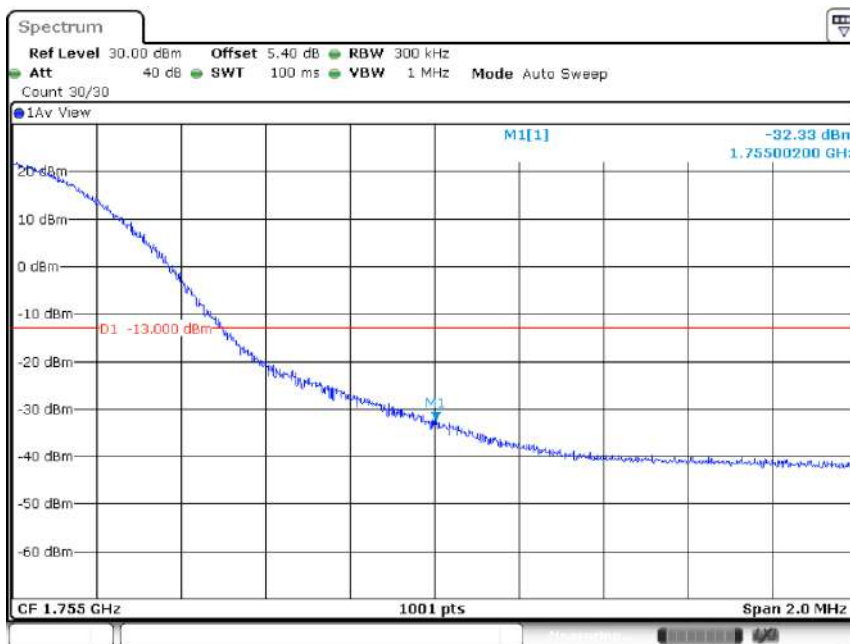
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 22.OCT.2020 14:54:42

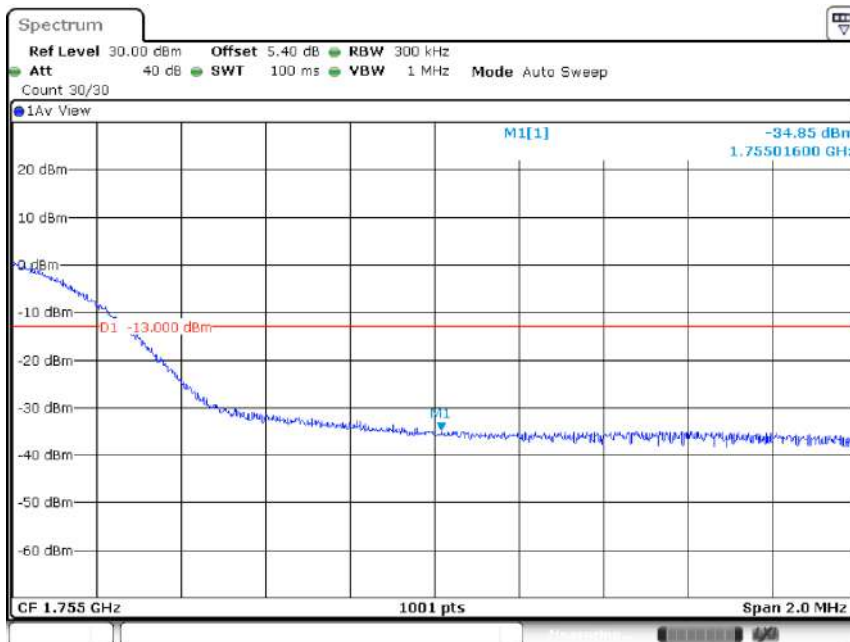
Band4-20MHz-16QAM-20300-1RB#99



Date: 22.OCT.2020 14:55:23

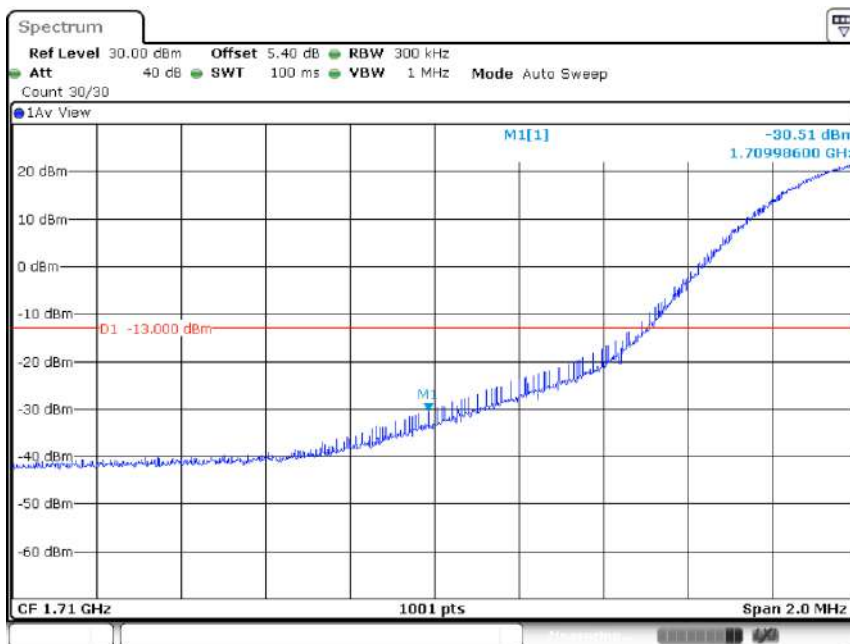


Band4-20MHz-16QAM-20300-100RB#0



Date: 22.OCT.2020 14:55:56

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



Date: 22.OCT.2020 16:46:01

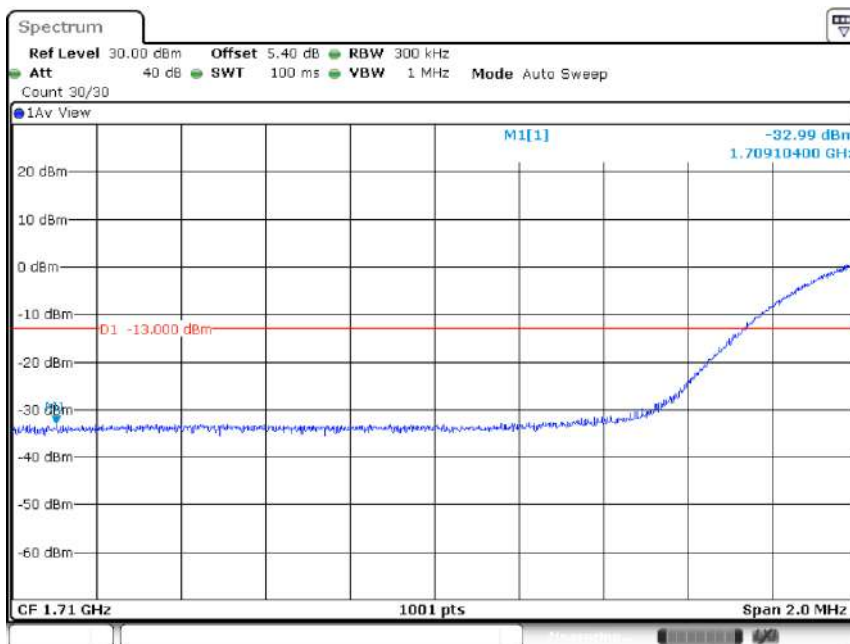


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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-64QAM-20050-100RB#0



Date: 22.OCT.2020 16:46:18

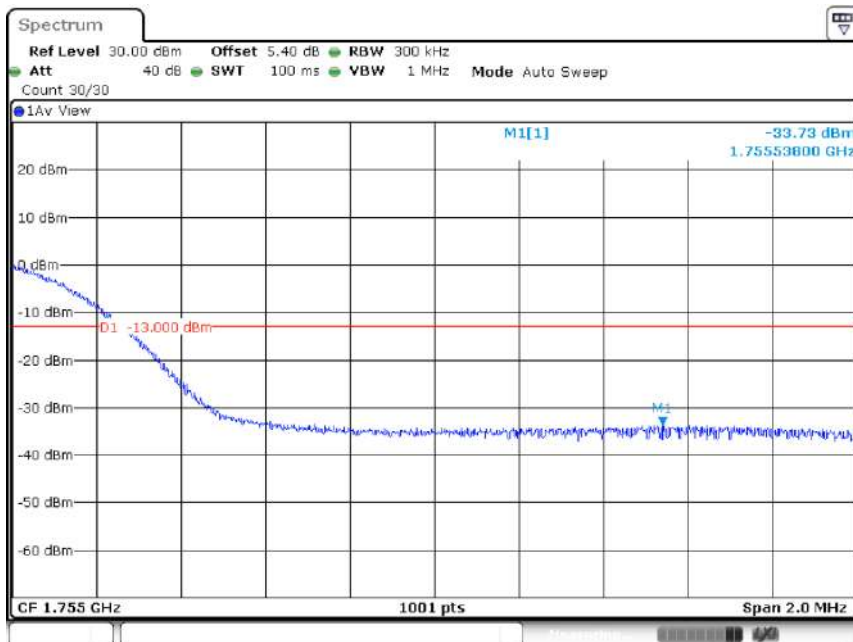
Band4-20MHz-64QAM-20300-1RB#99



Date: 22.OCT.2020 16:46:43



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



Date: 22 OCT.2020 16:46:59



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

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

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

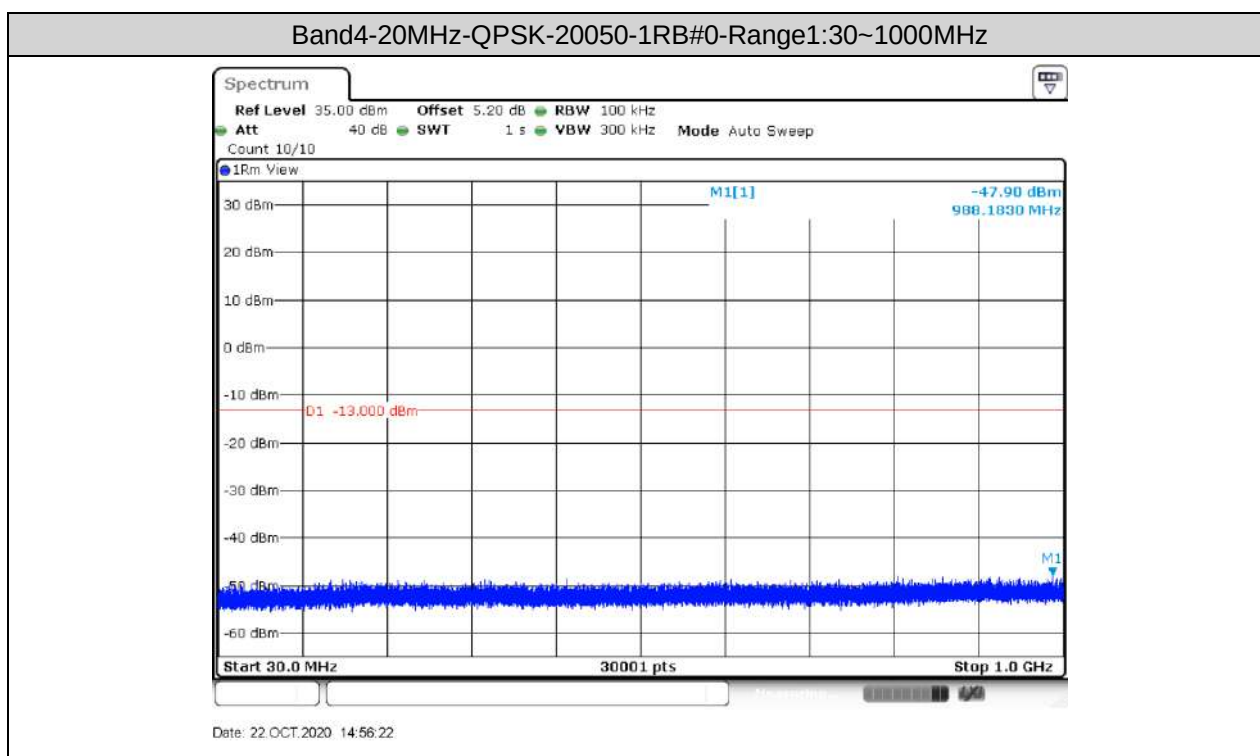
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6 Spurious Emission at Antenna Terminal

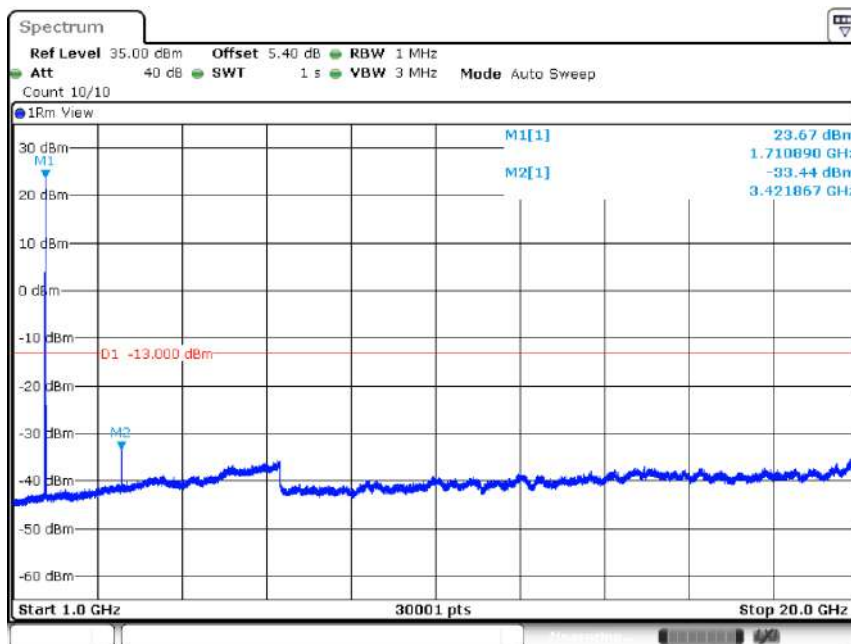
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

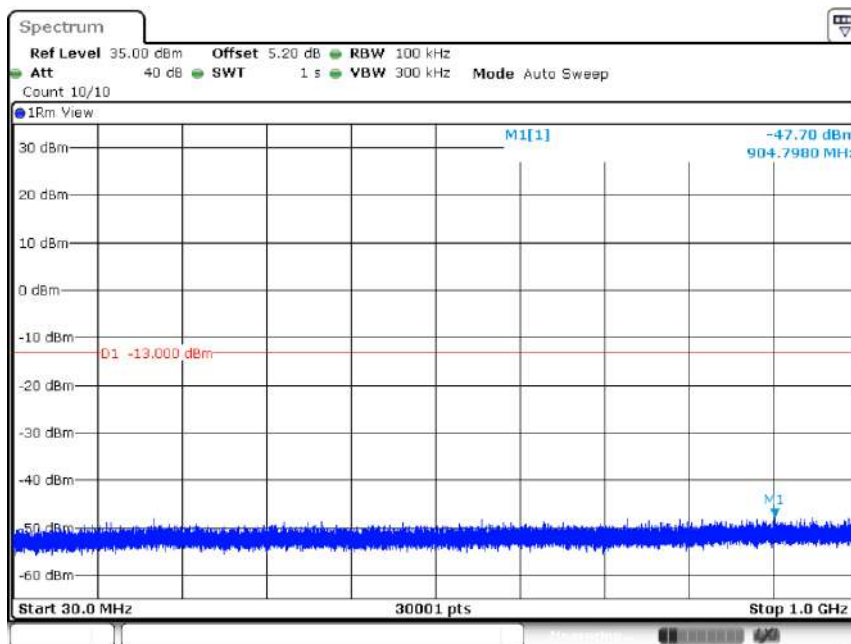


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:56:40

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



Date: 22.OCT.2020 14:57:41

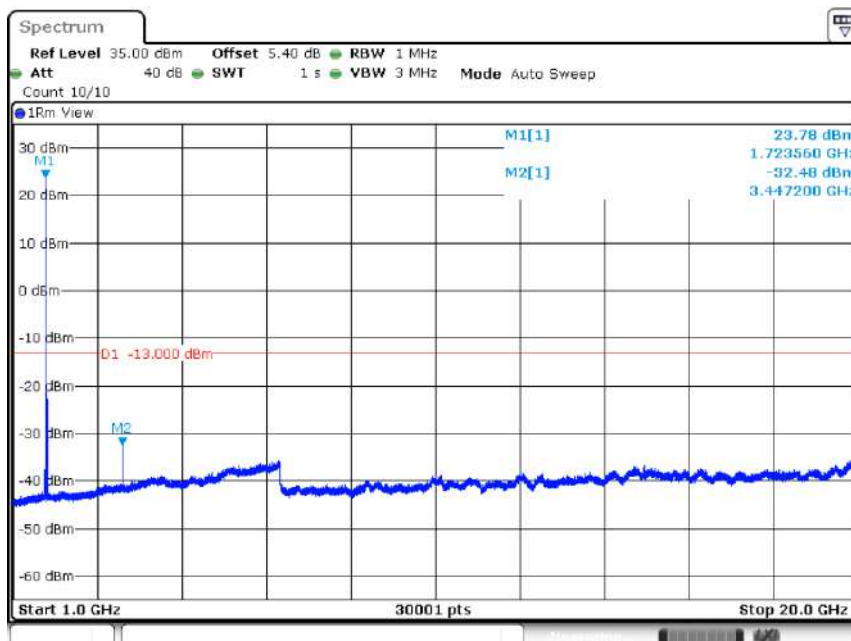


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

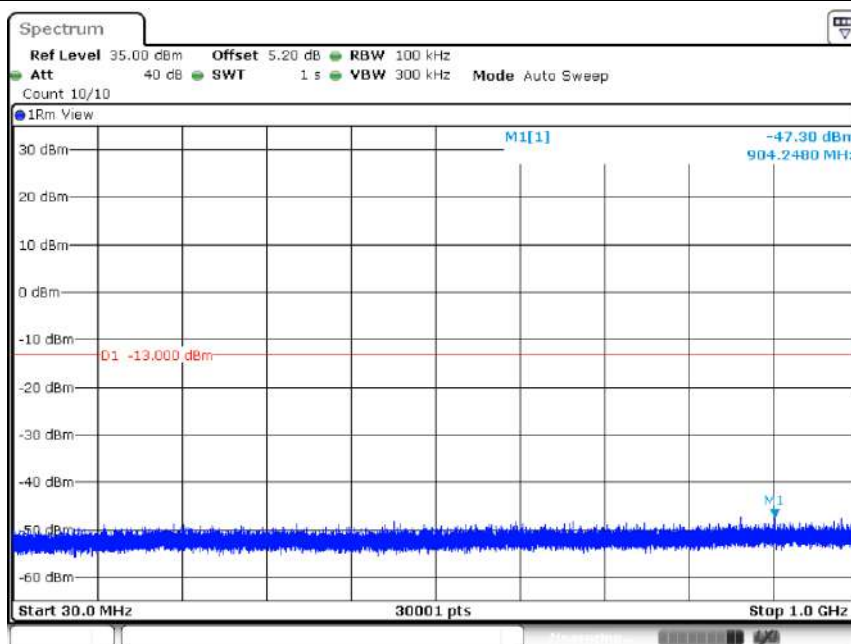
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 14:57:59

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



Date: 22.OCT.2020 14:59:00



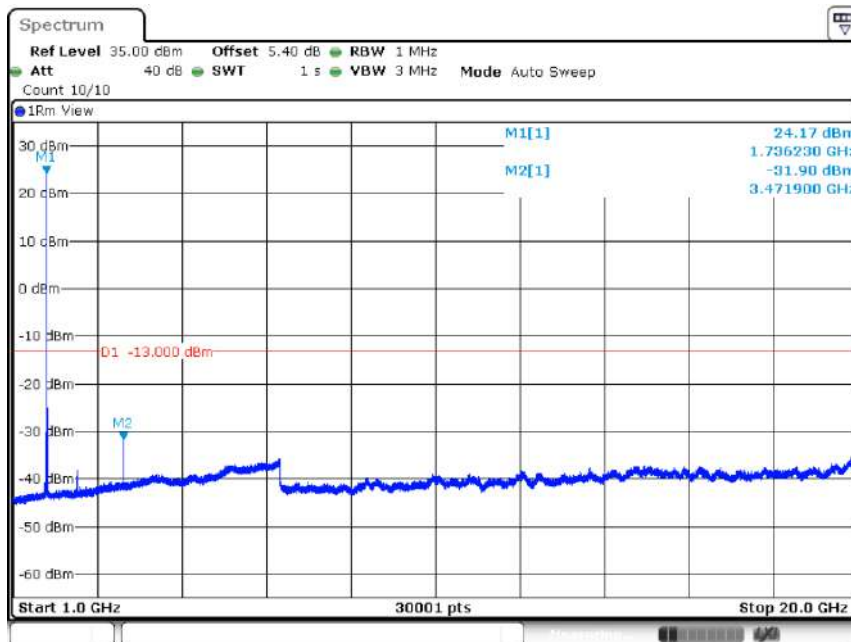
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

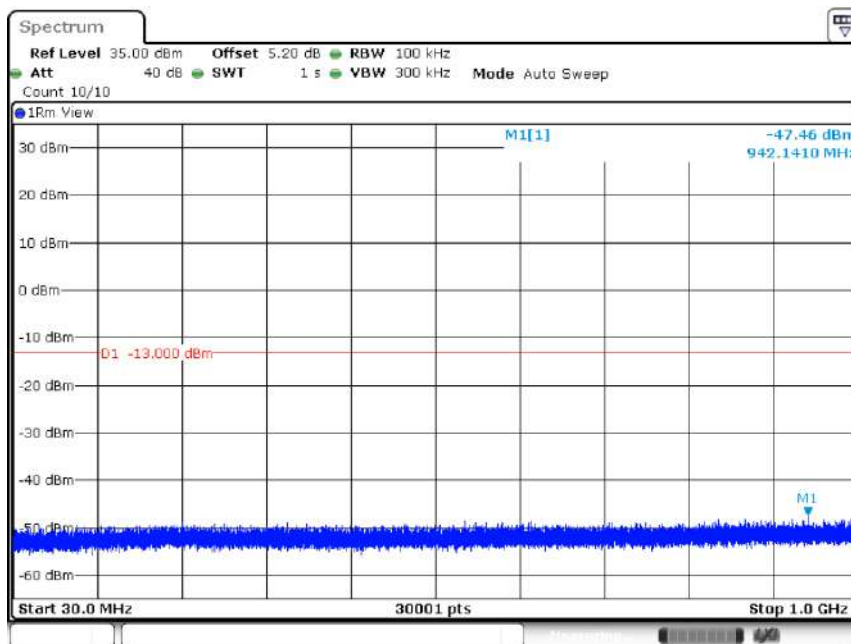
Member of the SGS Group (SGS SA)

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



Date: 22.OCT.2020 14:59:17

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



Date: 22.OCT.2020 14:57:01

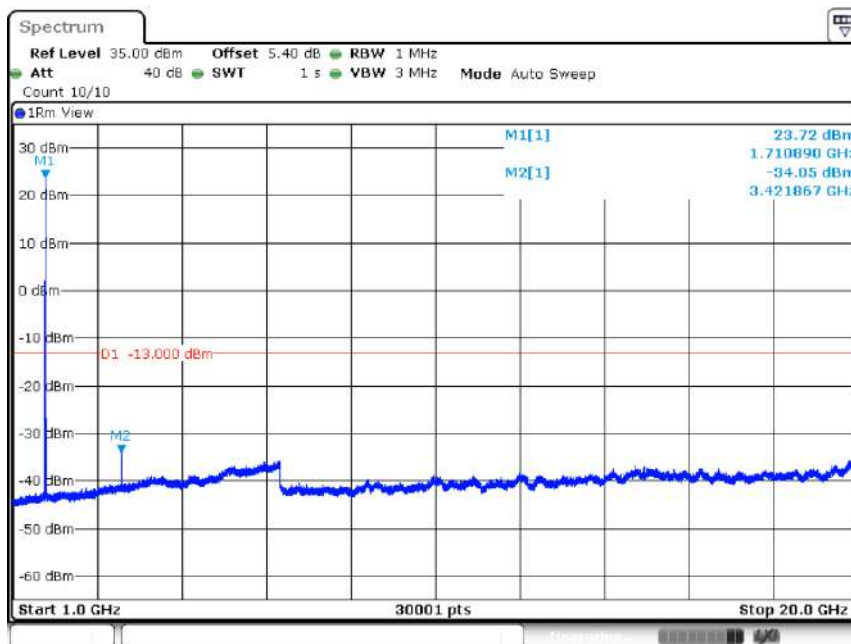


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

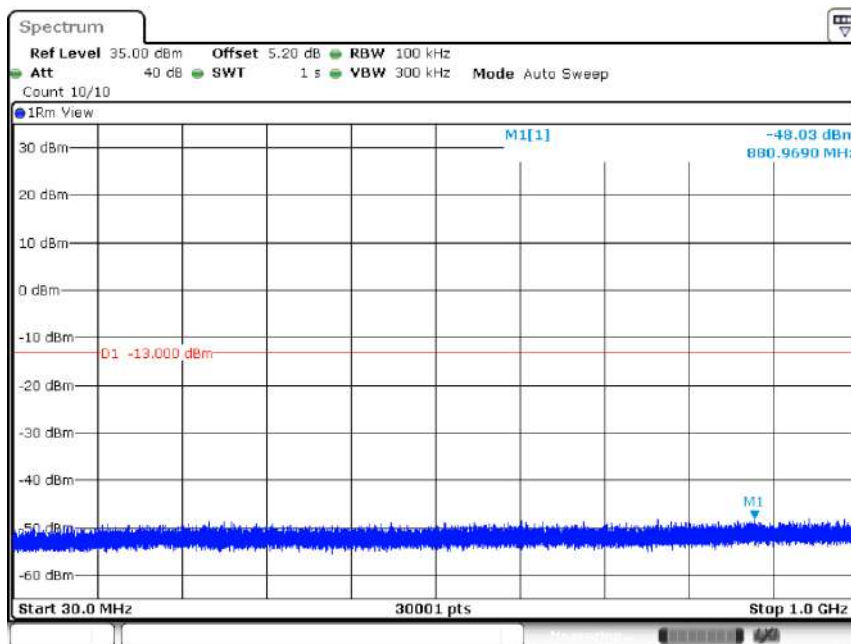
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 14:57:19

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



Date: 22.OCT.2020 14:58:20



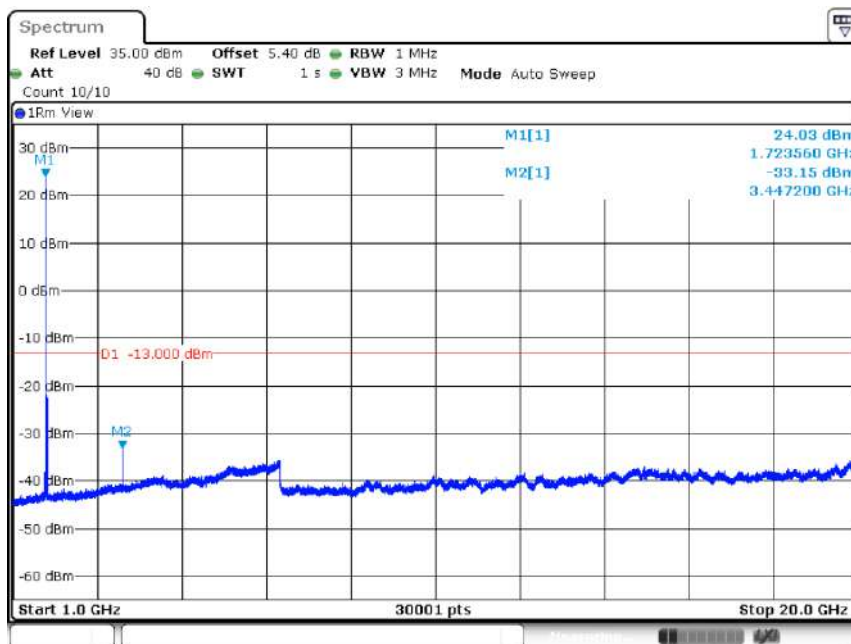
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

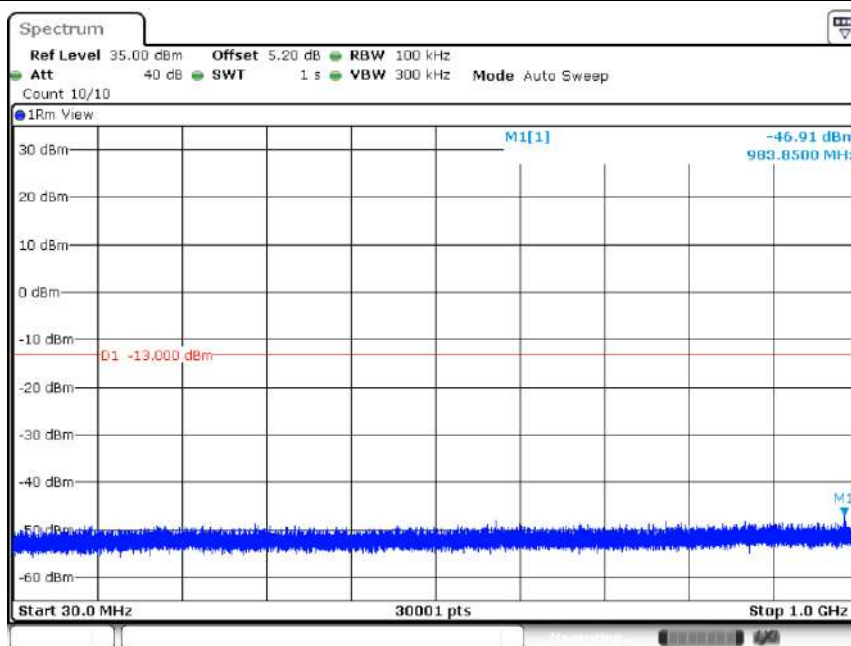
Member of the SGS Group (SGS SA)

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



Date: 22.OCT.2020 14:58:38

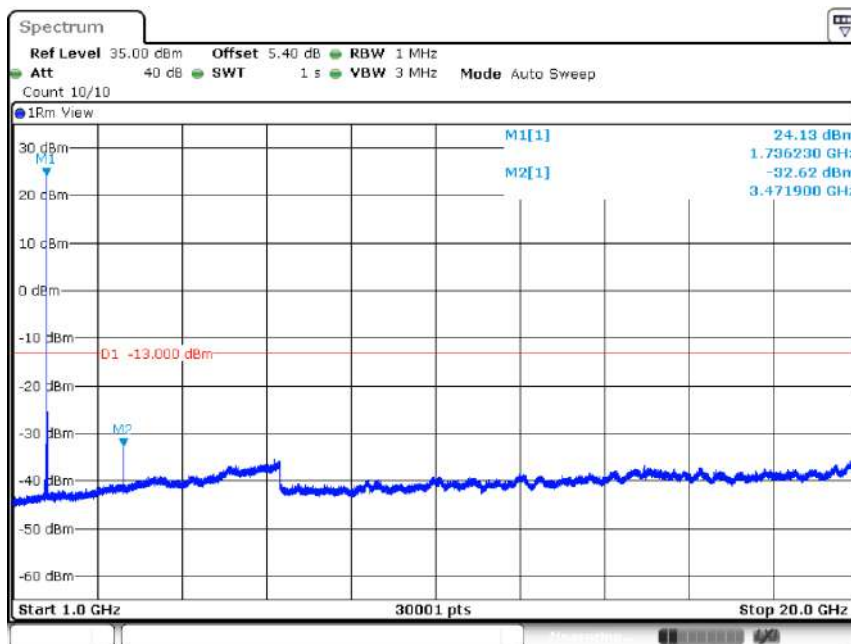
Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 14:59:38

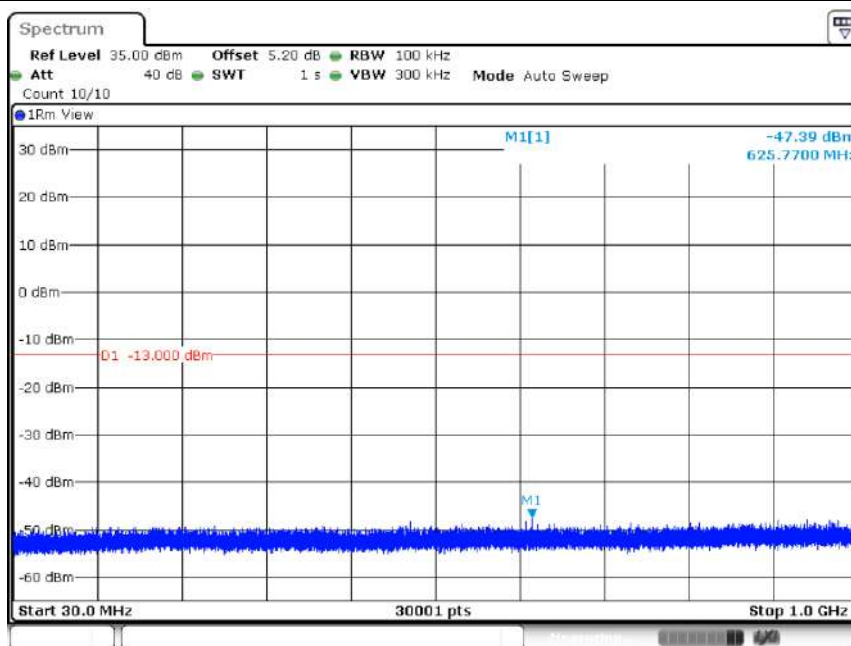


Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:59:56

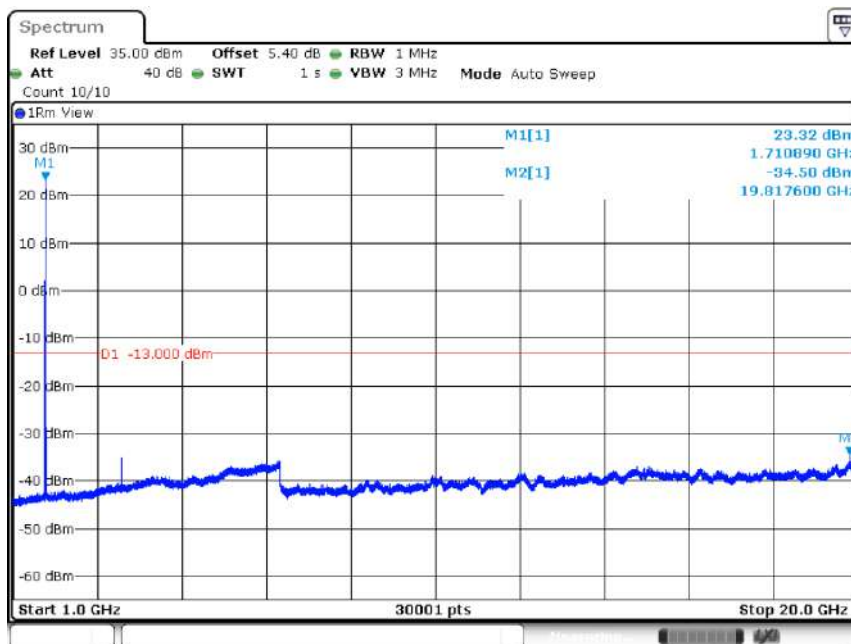
Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 16:47:27

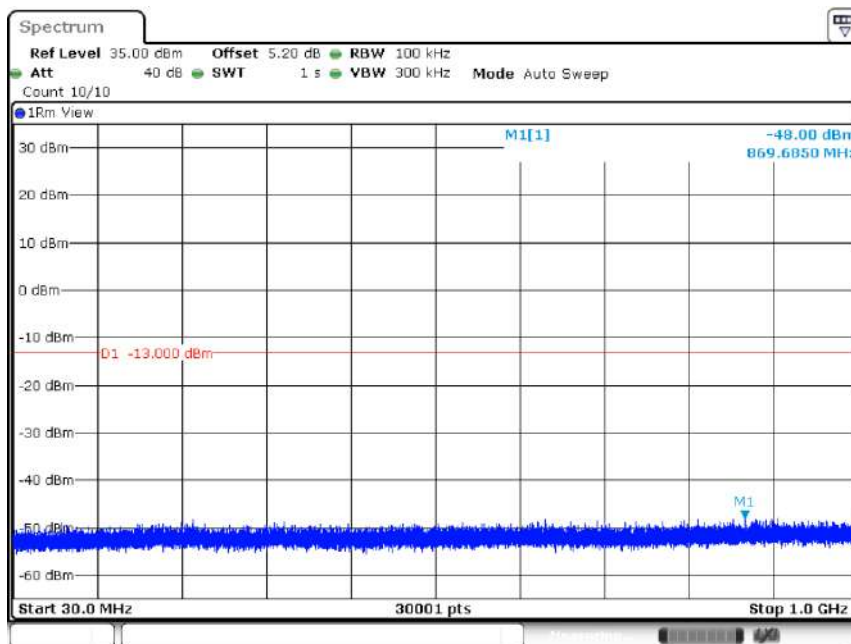


Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 16:47:44

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



Date: 22.OCT.2020 16:48:06

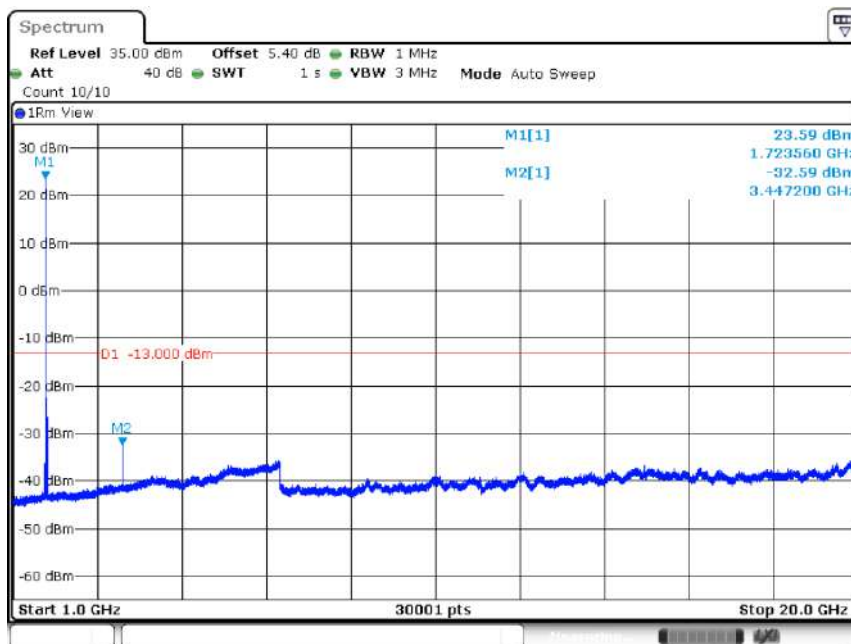


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

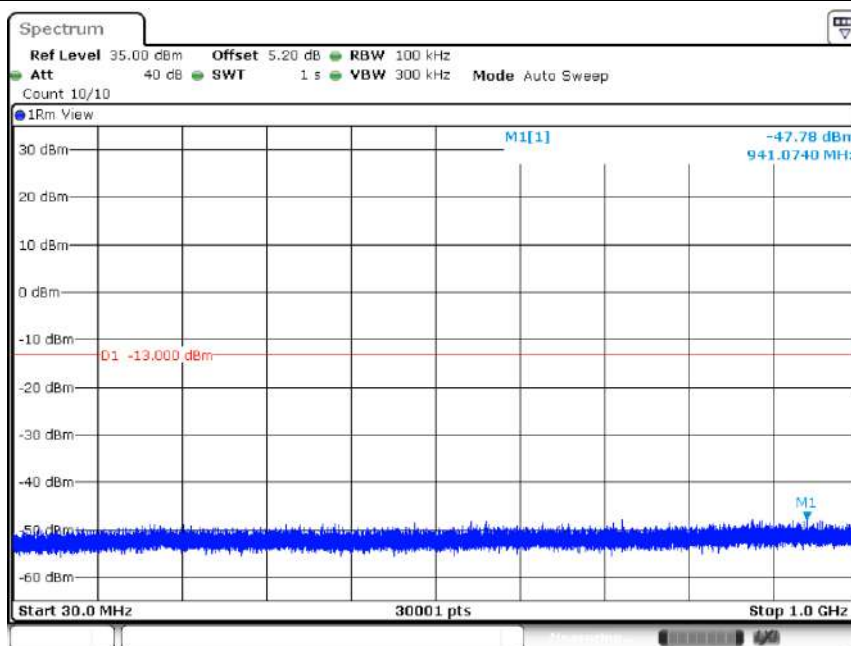
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Date: 22.OCT.2020 16:48:23

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



Date: 22.OCT.2020 16:48:45



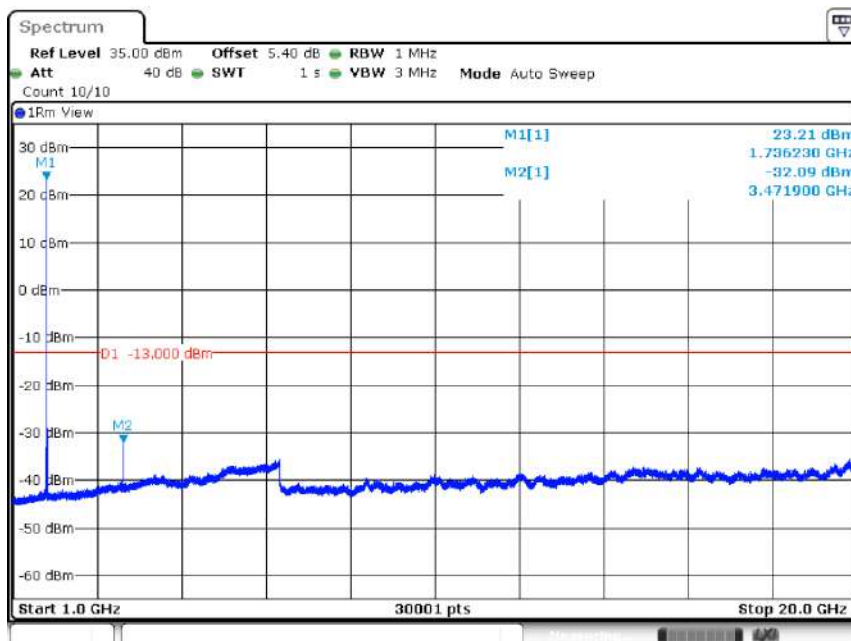
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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: 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.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-20300-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 16:49:02



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-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



7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_4_TM1

7.1.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.8902	-70.61	-63.60	-13.00	50.60	174	167	Horizontal
2	245.2053	-70.29	-67.61	-13.00	54.61	185	262	Horizontal
3	3422.0141	-41.76	-51.74	-13.00	38.74	196	9	Horizontal
4	5133.0711	-52.21	-58.86	-13.00	45.86	321	40	Horizontal
5	6844.1281	-52.70	-55.67	-13.00	42.67	215	9	Horizontal
6	8555.1852	-54.14	-52.69	-13.00	39.69	196	40	Horizontal





7.2 Test Band = LTE_4_TM1

7.2.1 Test Channel = Low Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1156	-63.32	-68.57	-13.00	55.57	258	9	Vertical
2	106.9248	-69.65	-63.96	-13.00	50.96	205	167	Vertical
3	520.2140	-70.37	-65.53	-13.00	52.53	178	9	Vertical
4	3422.0141	-39.92	-51.06	-13.00	38.06	185	293	Vertical
5	5133.0711	-52.15	-59.16	-13.00	46.16	196	199	Vertical
6	6844.6282	-52.77	-55.77	-13.00	42.77	321	9	Vertical





7.3 Test Band = LTE_4_TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.2112	-69.93	-62.95	-13.00	49.95	185	166	Horizontal
2	228.1324	-69.79	-67.30	-13.00	54.30	174	39	Horizontal
3	3447.0149	-37.52	-47.16	-13.00	34.16	196	8	Horizontal
4	5170.5724	-53.29	-59.99	-13.00	46.99	212	198	Horizontal
5	6894.1298	-52.70	-55.67	-13.00	42.67	187	8	Horizontal
6	8617.6873	-55.23	-53.19	-13.00	40.19	151	39	Horizontal





7.4 Test Band = LTE_4_TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.5335	-65.78	-70.46	-13.00	57.46	258	325	Vertical
2	105.5183	-69.58	-64.21	-13.00	51.21	205	166	Vertical
3	3447.0149	-36.94	-47.74	-13.00	34.74	158	293	Vertical
4	5171.0724	-52.68	-59.73	-13.00	46.73	174	198	Vertical
5	6894.6298	-53.76	-56.49	-13.00	43.49	196	8	Vertical
6	17996.4999	-58.26	-40.47	-13.00	27.47	231	8	Vertical



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

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



7.5 Test Band = LTE_4_TM1

7.5.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.1442	-70.02	-63.10	-13.00	50.10	128	198	Horizontal
2	227.2109	-69.84	-67.51	-13.00	54.51	191	135	Horizontal
3	3472.0157	-38.63	-47.94	-13.00	34.94	158	8	Horizontal
4	5208.5736	-50.84	-57.63	-13.00	44.63	151	230	Horizontal
5	6944.6315	-53.29	-55.77	-13.00	42.77	196	8	Horizontal
6	16381.9461	-58.18	-44.05	-13.00	31.05	321	325	Horizontal





7.6 Test Band = LTE_4_TM1

7.6.1 Test Channel = High Channel

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.7275	-66.26	-71.13	-13.00	58.13	185	103	Vertical
2	112.4541	-70.96	-64.77	-13.00	51.77	174	325	Vertical
3	340.8520	-70.17	-67.71	-13.00	54.71	196	8	Vertical
4	3472.0157	-37.82	-48.27	-13.00	35.27	123	293	Vertical
5	5208.5736	-46.12	-53.26	-13.00	40.26	151	198	Vertical
6	11148.7716	-58.32	-51.65	-13.00	38.65	155	230	Vertical

Remark:

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



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

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



8 Frequency Stability

8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	0.80	0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.90	0.002267	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.90	0.001105	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	2.10	0.001212	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.20	0.000693	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	2.50	0.001453	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-1.10	-0.000635	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	1.60	0.000930	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	2.20	0.001279	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	1.40	0.000808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-4.20	-0.002407	±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 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



8.2 Frequency Vs Temperature

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	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	1.80	0.001047	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	2.10	0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	1.70	0.000988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	1.30	0.000756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.10	0.000635	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.30	0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	2.20	0.001279	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	1.60	0.000930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	0.80	0.000465	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	2.40	0.001395	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	0.50	0.000291	±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



Band4	20MHz	16QAM	20050	100RB#0	NV	30	1.60	0.000930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	2.70	0.001570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	2.60	0.001512	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	1.10	0.000635	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	1.90	0.001097	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	1.20	0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	1.60	0.000924	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	0.20	0.000115	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-4.30	-0.002464	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	1.70	0.000988	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	0.40	0.000233	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	0.70	0.000407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	1.50	0.000872	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	1.20	0.000698	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	2.60	0.001512	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.20	0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	0.50	0.000289	±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	0.90	0.000519	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	1.30	0.000750	±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



Band4	20MHz	64QAM	20175	100RB#0	NV	40	1.70	0.000981	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-2.20	-0.001261	±2.5	PASS

The End



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

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