



Appendix B

E-UTRA Band 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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT FOR ANT0	3
1.2.	TEST RESULT FOR ANT1	8
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 10MHZ.....	20
3.1.1.	TEST CHANNEL = MCH.....	20
3.2.	TEST MODE = LTE /TM2 10MHZ.....	21
3.2.1.	TEST CHANNEL = MCH.....	21
3.3.	TEST MODE = LTE /TM3 10MHZ.....	22
3.3.1.	TEST CHANNEL = MCH.....	22
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	23
4.1.	TEST RESULT	23
4.2.	TEST PLOTS.....	24
5.	BAND EDGE COMPLIANCE	42
5.1.	TEST PLOTS.....	42
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	66
6.1.	TEST PLOTS.....	66
7.	FIELD STRENGTH OF SPURIOUS RADIATION	75
7.1.	TEST MODE =LTE/TM1 (ANT0)	75
7.1.1.	TEST CHANNEL = LCH	75
7.1.2.	TEST CHANNEL = MCH.....	75
7.1.3.	TEST CHANNEL = HCH.....	76
7.2.	TEST MODE =LTE/TM1 (ANT1)	76
7.2.1.	TEST CHANNEL = LCH	76
7.2.2.	TEST CHANNEL = MCH.....	77
7.2.3.	TEST CHANNEL = HCH.....	77
8.	FREQUENCY STABILITY.....	78
8.1.	FREQUENCY VS VOLTAGE	78
8.2.	FREQUENCY VS TEMPERATURE	78



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

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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result for Ant0

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.40	15.65	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.54	15.79	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.47	15.72	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.55	15.80	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#2	23.58	15.83	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.52	15.77	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.65	14.90	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.51	15.76	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.65	15.90	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.43	15.68	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.49	15.74	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#2	23.55	15.80	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.56	15.81	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.58	14.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.46	15.71	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.62	15.87	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.50	15.75	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.51	15.76	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#2	23.56	15.81	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.54	15.79	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.57	14.82	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.22	14.47	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.93	14.18	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.99	14.24	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.56	13.81	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#2	21.57	13.82	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.39	13.64	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.85	13.10	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.79	14.04	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.66	13.91	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.30	14.55	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.50	13.75	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#2	21.61	13.86	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.75	14.00	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.64	12.89	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.90	14.15	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.77	14.02	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.21	14.46	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	21.40	13.65	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#2	21.81	14.06	34.77	PASS



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

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

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



Band12	1.4MHz	64QAM	23173	3RB#3	21.51	13.76	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.73	12.98	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.36	15.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.93	15.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.00	15.25	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.55	14.80	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#2	22.58	14.83	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.36	14.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.80	14.05	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.77	15.02	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.62	14.87	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.30	15.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.49	14.74	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#2	22.63	14.88	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.72	14.97	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.62	13.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.89	15.14	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.73	14.98	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.18	15.43	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.41	14.66	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#2	22.75	15.00	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.49	14.74	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.71	13.96	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.64	15.89	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#7	23.65	15.90	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.57	15.82	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.72	14.97	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.72	14.97	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.68	14.93	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.66	14.91	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.66	15.91	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#7	23.55	15.80	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.57	15.82	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.72	14.97	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.75	15.00	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.68	14.93	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.66	14.91	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.62	15.87	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#7	23.51	15.76	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.50	15.75	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.67	14.92	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.61	14.86	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.62	14.87	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.64	14.89	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.79	14.04	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#7	22.25	14.50	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.82	14.07	34.77	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



Band12	3MHz	64QAM	23025	8RB#0	20.78	13.03	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	20.84	13.09	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.69	12.94	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.69	12.94	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.98	14.23	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#7	21.88	14.13	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.15	14.40	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	20.71	12.96	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	20.81	13.06	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	20.64	12.89	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.71	12.96	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.93	14.18	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#7	21.85	14.10	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.90	14.15	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	20.73	12.98	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.67	12.92	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	20.72	12.97	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.59	12.84	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.81	15.06	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#7	23.28	15.53	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.84	15.09	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.77	14.02	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.79	14.04	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.67	13.92	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.68	13.93	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.98	15.23	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#7	22.85	15.10	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.13	15.38	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.72	13.97	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.79	14.04	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.62	13.87	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.73	13.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.88	15.13	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#7	22.79	15.04	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.84	15.09	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.68	13.93	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.65	13.90	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.70	13.95	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.62	13.87	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.56	15.81	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#13	23.61	15.86	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.62	15.87	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.70	14.95	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.70	14.95	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.70	14.95	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.73	14.98	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.61	15.86	34.77	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



Band12	5MHz	QPSK	23095	1RB#13	23.60	15.85	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.47	15.72	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.74	14.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.74	14.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.61	14.86	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.73	14.98	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.47	15.72	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#13	23.57	15.82	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.49	15.74	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.74	14.99	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.63	14.88	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.65	14.90	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.68	14.93	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.92	14.17	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#13	22.33	14.58	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.35	14.60	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	20.71	12.96	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.64	12.89	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	20.76	13.01	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.72	12.97	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.37	14.62	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#13	21.80	14.05	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.33	14.58	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	20.84	13.09	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#6	20.64	12.89	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#13	20.70	12.95	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.64	12.89	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.86	14.11	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#13	22.39	14.64	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.28	14.53	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.77	13.02	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.71	12.96	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.73	12.98	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.77	13.02	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.95	15.20	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#13	23.37	15.62	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.32	15.57	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.72	13.97	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.66	13.91	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.76	14.01	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.69	13.94	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.35	15.60	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#13	22.78	15.03	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.37	15.62	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.81	14.06	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.66	13.91	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.69	13.94	34.77	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



Band12	5MHz	16QAM	23095	25RB#0	21.66	13.91	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.87	15.12	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#13	23.35	15.60	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.28	15.53	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.75	14.00	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.69	13.94	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.67	13.92	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.80	14.05	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.64	15.89	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.46	15.71	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.65	15.90	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.67	14.92	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.79	15.04	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.87	15.12	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.77	15.02	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.56	15.81	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.67	15.92	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.57	15.82	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.70	14.95	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.66	14.91	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.72	14.97	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.65	14.90	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.66	15.91	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.67	15.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.38	15.63	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.69	14.94	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.64	14.89	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.86	15.11	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.65	14.90	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.99	14.24	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.70	13.95	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.76	14.01	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	20.77	13.02	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#12	20.79	13.04	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	20.63	12.88	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.80	13.05	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.86	14.11	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.63	13.88	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.49	13.74	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	20.82	13.07	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#12	20.67	12.92	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#25	20.70	12.95	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.68	12.93	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.92	14.17	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.18	14.43	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.71	13.96	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	20.76	13.01	34.77	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



Band12	10MHz	64QAM	23130	25RB#12	20.53	12.78	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	20.61	12.86	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.56	12.81	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.07	15.32	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.73	14.98	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.75	15.00	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.78	14.03	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.80	14.05	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.65	13.90	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.79	14.04	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.87	15.12	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.67	14.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.47	14.72	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.77	14.02	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.71	13.96	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.72	13.97	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.72	13.97	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.90	15.15	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.13	15.38	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.66	14.91	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.75	14.00	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.56	13.81	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.65	13.90	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.60	13.85	34.77	PASS

1.2. Test Result for Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.76	19.21	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.85	19.30	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.77	19.22	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.82	19.27	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#2	23.84	19.29	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.87	19.32	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.86	18.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.74	19.19	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.83	19.28	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.83	19.28	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.80	19.25	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#2	23.84	19.29	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.78	19.23	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.86	18.31	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.68	19.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.80	19.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.67	19.12	34.77	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	1.4MHz	QPSK	23173	3RB#0	23.77	19.22	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#2	23.86	19.31	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.78	19.23	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.88	18.33	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.63	17.08	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.64	17.09	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.53	16.98	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.82	17.27	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#2	21.71	17.16	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.82	17.27	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.81	16.26	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.54	16.99	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.76	17.21	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.63	17.08	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.69	17.14	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#2	21.84	17.29	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.58	17.03	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.85	16.30	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.44	16.89	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.67	17.12	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.53	16.98	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	21.62	17.07	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#2	21.68	17.13	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	21.78	17.23	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.71	16.16	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.29	18.74	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.31	18.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.65	19.10	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.95	18.40	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#2	23.14	18.59	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.84	18.29	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.89	17.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.13	18.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.54	18.99	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.26	18.71	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.89	18.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#2	22.91	18.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.87	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.93	17.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.85	18.30	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.46	18.91	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.21	18.66	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.01	18.46	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#2	22.95	18.40	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.79	18.24	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.90	17.35	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.90	19.35	34.77	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



Band12	3MHz	QPSK	23025	1RB#7	23.97	19.42	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.87	19.32	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.99	18.44	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.97	18.42	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.95	18.40	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.96	18.41	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.02	19.47	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#7	23.95	19.40	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.86	19.31	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.00	18.45	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.02	18.47	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.98	18.43	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.89	18.34	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.82	19.27	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#7	23.94	19.39	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.83	19.28	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.92	18.37	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.91	18.36	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.86	18.31	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.85	18.30	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.88	17.33	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#7	21.97	17.42	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.68	17.13	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#0	20.85	16.30	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	20.83	16.28	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.76	16.21	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.94	16.39	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.82	17.27	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#7	21.93	17.38	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.62	17.07	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	20.83	16.28	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	20.99	16.44	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	20.94	16.39	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.75	16.20	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.74	17.19	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#7	21.88	17.33	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.68	17.13	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	20.85	16.30	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.76	16.21	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	20.72	16.17	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.68	16.13	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.78	18.23	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#7	23.13	18.58	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.34	18.79	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.99	17.44	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.06	17.51	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.01	17.46	34.77	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



Band12	3MHz	16QAM	23025	15RB#0	22.07	17.52	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.10	18.55	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#7	23.07	18.52	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.35	18.80	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.02	17.47	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.12	17.57	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.99	17.44	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.10	17.55	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.01	18.46	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#7	23.01	18.46	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.38	18.83	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.04	17.49	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.08	17.53	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.82	17.27	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.03	17.48	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.85	19.30	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#13	24.01	19.46	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.88	19.33	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.01	18.46	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.98	18.43	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.91	18.36	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.97	18.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.84	19.29	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#13	23.84	19.29	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.81	19.26	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.02	18.47	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.02	18.47	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.96	18.41	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.95	18.40	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.93	19.38	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#13	23.84	19.29	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.88	19.33	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.98	18.43	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.92	18.37	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.87	18.32	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.01	18.46	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.67	17.12	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#13	21.80	17.25	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.73	17.18	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	20.98	16.43	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.79	16.24	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	20.78	16.23	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.91	16.36	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.84	17.29	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#13	21.73	17.18	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.56	17.01	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	20.81	16.26	34.77	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



Band12	5MHz	64QAM	23095	12RB#6	21.01	16.46	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#13	20.90	16.35	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.75	16.20	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.85	17.30	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#13	21.63	17.08	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.72	17.17	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.78	16.23	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.72	16.17	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.72	16.17	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.86	16.31	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.31	18.76	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#13	23.18	18.63	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.55	19.00	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.03	17.48	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.96	17.41	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.98	17.43	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.05	17.50	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.19	18.64	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#13	23.49	18.94	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.96	18.41	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.99	17.44	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.02	17.47	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.90	17.35	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.84	17.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.21	18.66	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#13	23.12	18.57	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.60	19.05	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.96	17.41	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.96	17.41	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.01	17.46	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.99	17.44	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.69	19.14	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.67	19.12	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.67	19.12	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.91	18.36	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.07	18.52	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.00	18.45	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.00	18.45	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.86	19.31	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.79	19.24	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.70	19.15	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.94	18.39	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.94	18.39	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.98	18.43	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.92	18.37	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.93	19.38	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.87	19.32	34.77	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



Band12	10MHz	QPSK	23130	1RB#49	23.92	19.37	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.94	18.39	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.85	18.30	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.08	18.53	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.95	18.40	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.27	17.72	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.30	17.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.91	17.36	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	20.99	16.44	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#12	21.12	16.57	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	21.17	16.62	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.09	16.54	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.19	17.64	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.12	17.57	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.91	17.36	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	20.89	16.34	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#12	21.08	16.53	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#25	20.94	16.39	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.84	16.29	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.21	17.66	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.02	17.47	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.15	17.60	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	21.03	16.48	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#12	21.09	16.54	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	20.96	16.41	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.94	16.39	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.09	18.54	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.33	18.78	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.36	18.81	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.95	17.40	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	22.02	17.47	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.03	17.48	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.16	17.61	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.24	18.69	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.20	18.65	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.43	18.88	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.96	17.41	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.03	17.48	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.95	17.40	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.86	17.31	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.05	18.50	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.52	18.97	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.51	18.96	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.01	17.46	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.02	17.47	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.01	17.46	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.01	17.46	34.77	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 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.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



Remark:

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

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

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



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

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

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

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

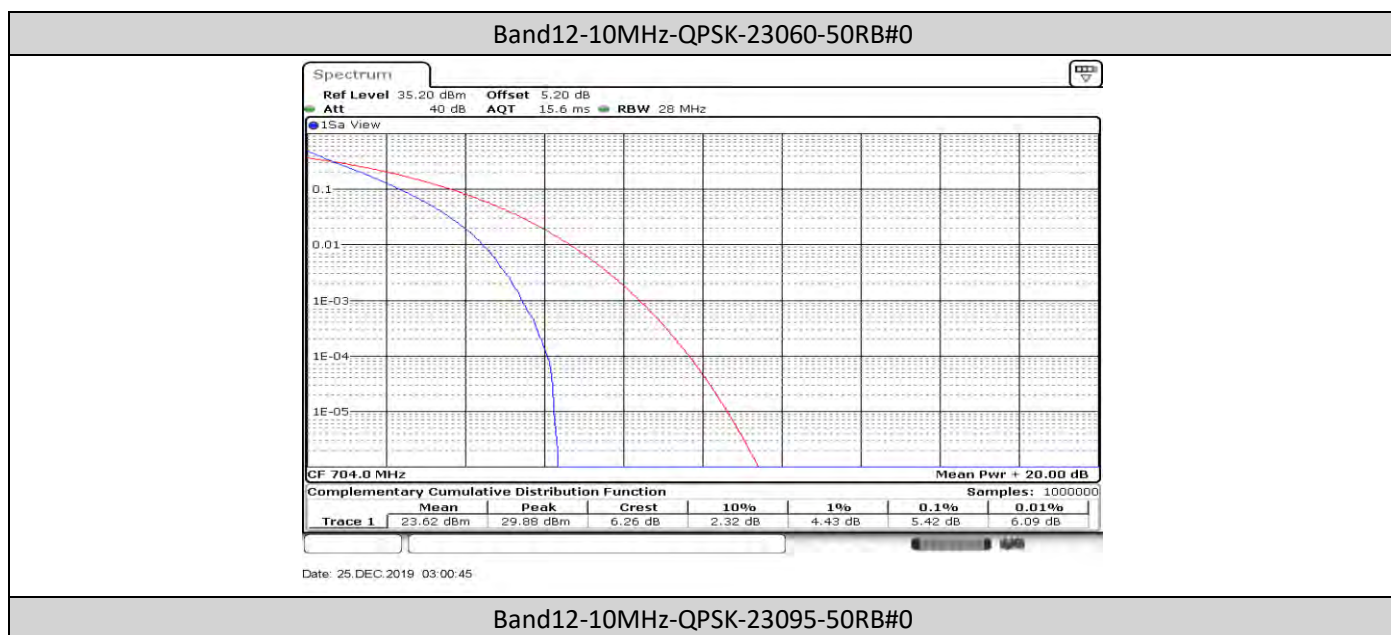


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.42	13.00	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.19	13.00	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.19	13.00	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.09	13.00	PASS
Band12	10MHz	64QAM	23095	50RB#0	5.45	13.00	PASS
Band12	10MHz	64QAM	23130	50RB#0	5.97	13.00	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.09	13.00	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.42	13.00	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.00	13.00	PASS

2.2. Test Plots





Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-64QAM-23060-50RB#0





Band12-10MHz-64QAM-23095-50RB#0



Band12-10MHz-64QAM-23130-50RB#0





Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0





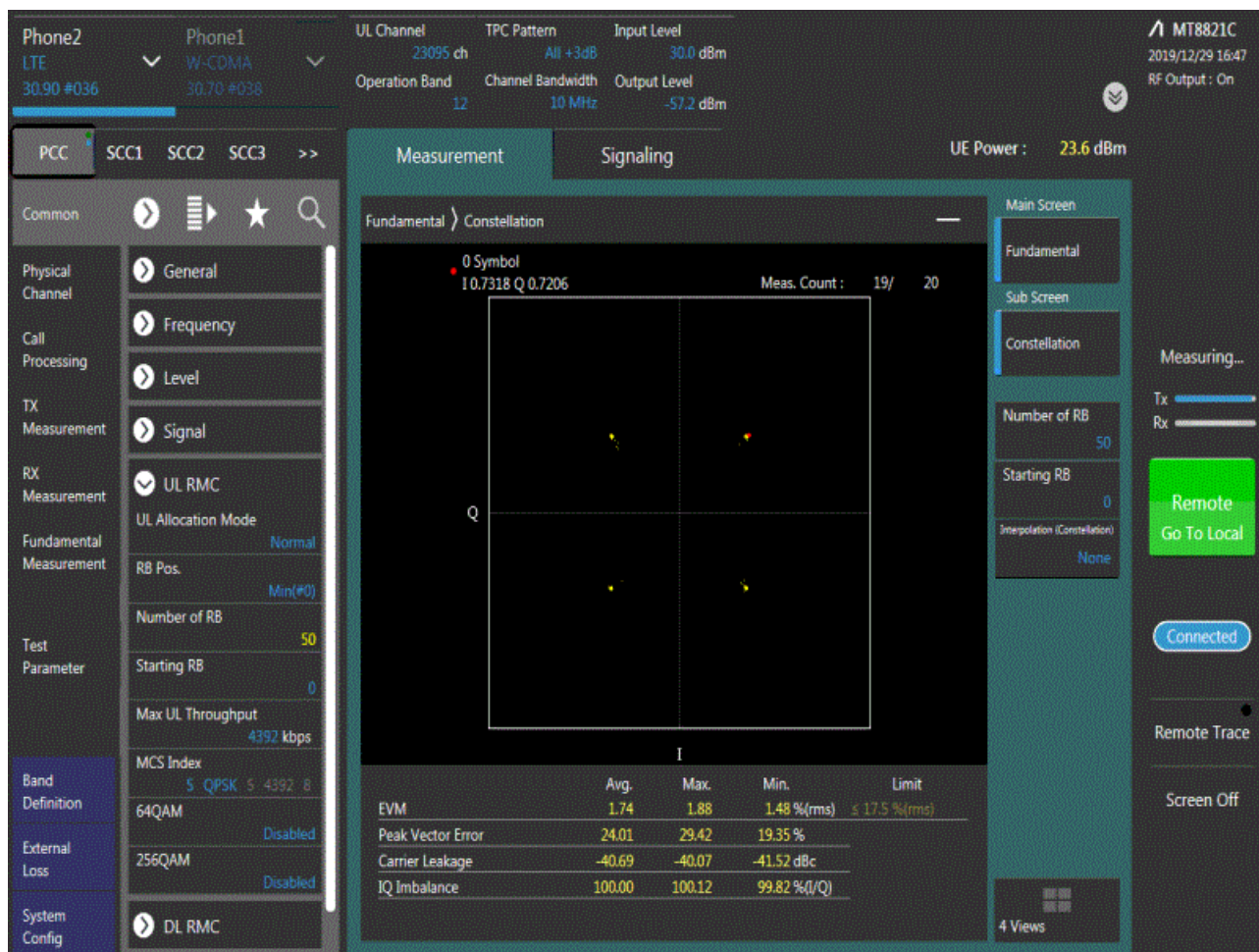
Band12-10MHz-16QAM-23130-50RB#0



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

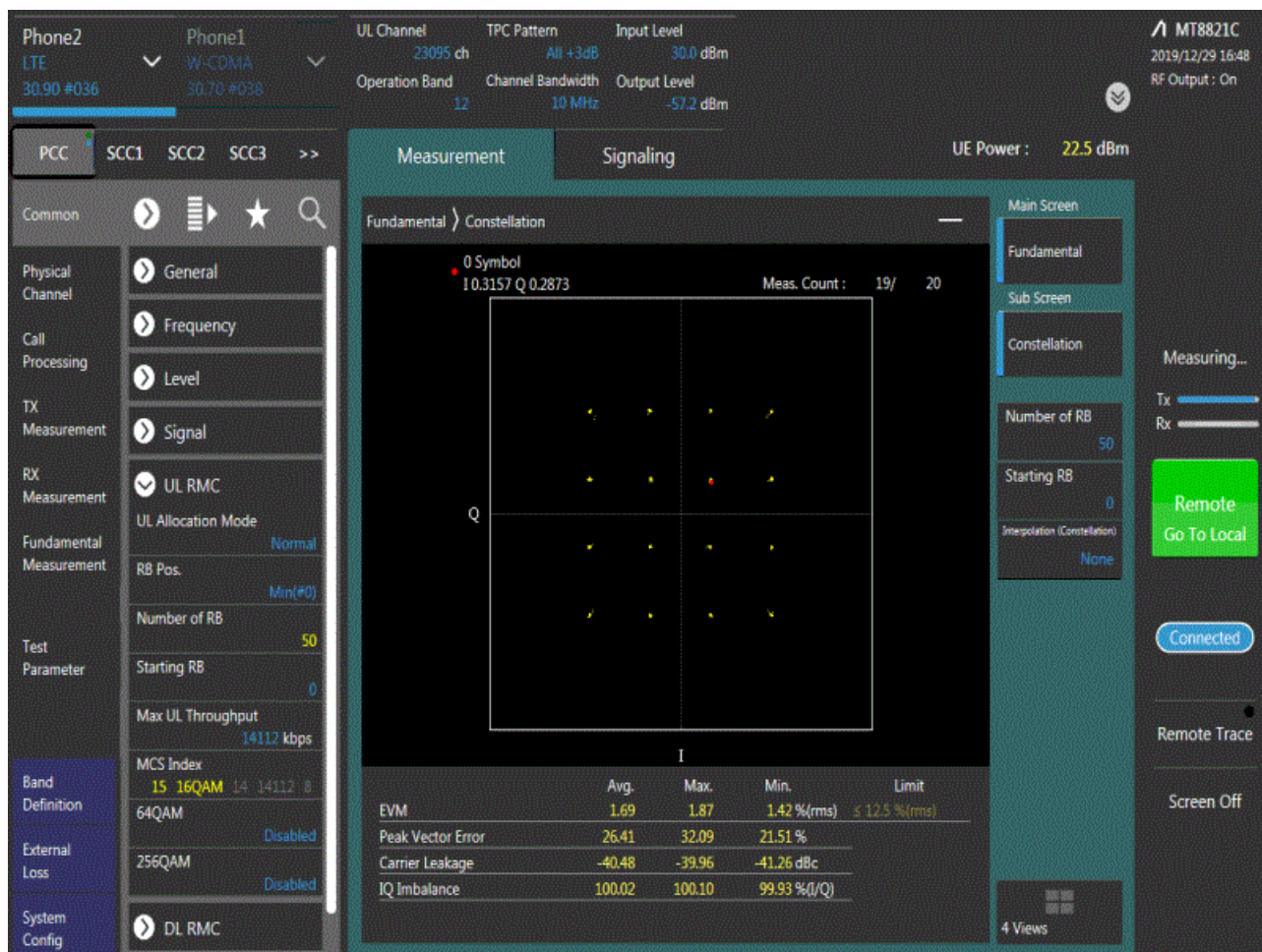
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

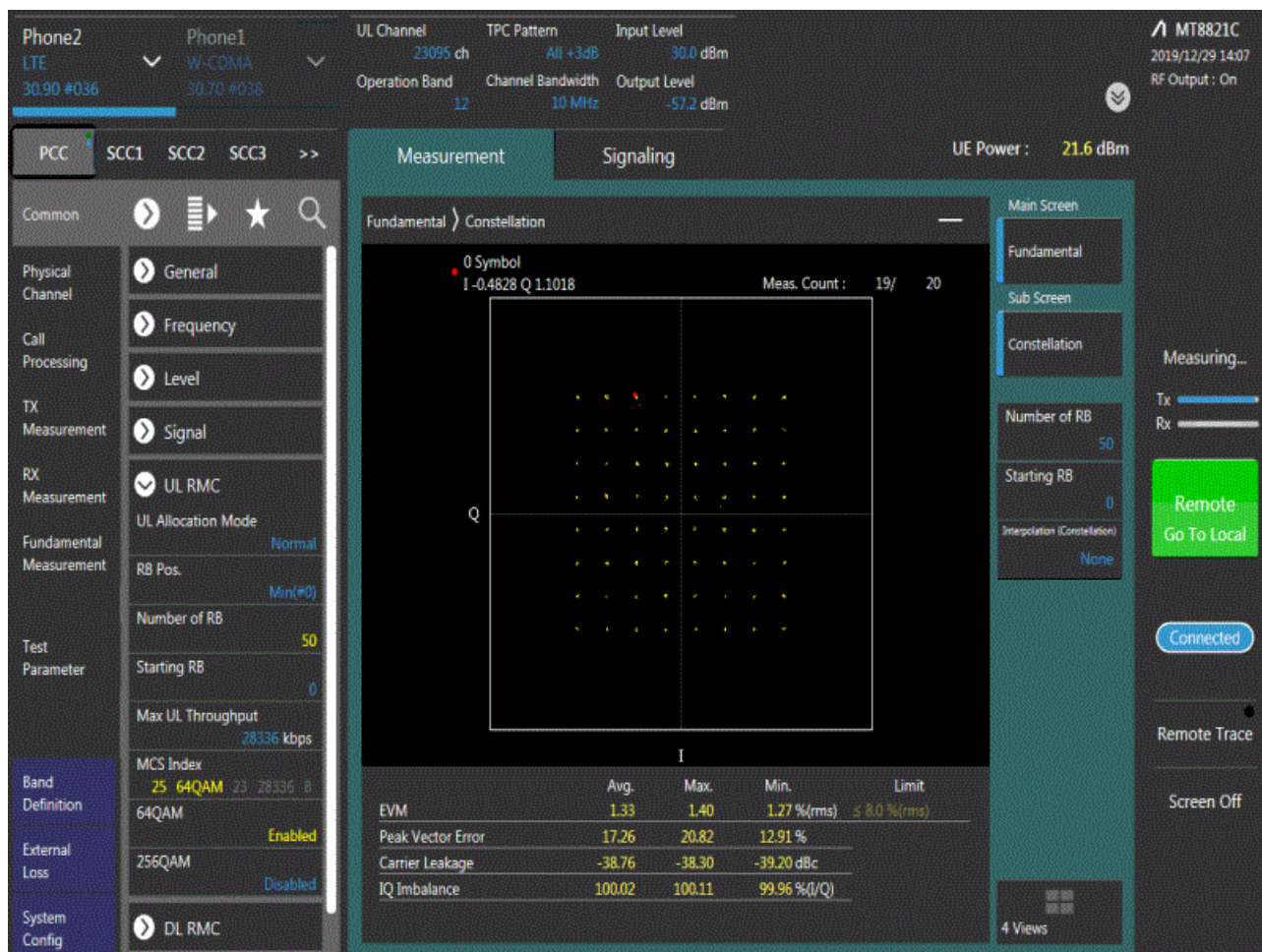
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.091	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.248	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.097	1.236	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.094	1.245	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.091	1.233	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.088	1.248	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.254	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.085	1.236	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.239	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.982	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	3.000	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	2.988	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.697	3.012	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.697	3.018	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.691	3.006	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.697	3.000	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.697	3.012	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	3.006	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.920	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.466	4.900	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	4.900	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.476	4.860	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.476	4.930	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.476	4.910	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.860	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.466	4.930	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.920	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.951	9.740	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.931	9.660	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.660	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.931	9.600	PASS



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

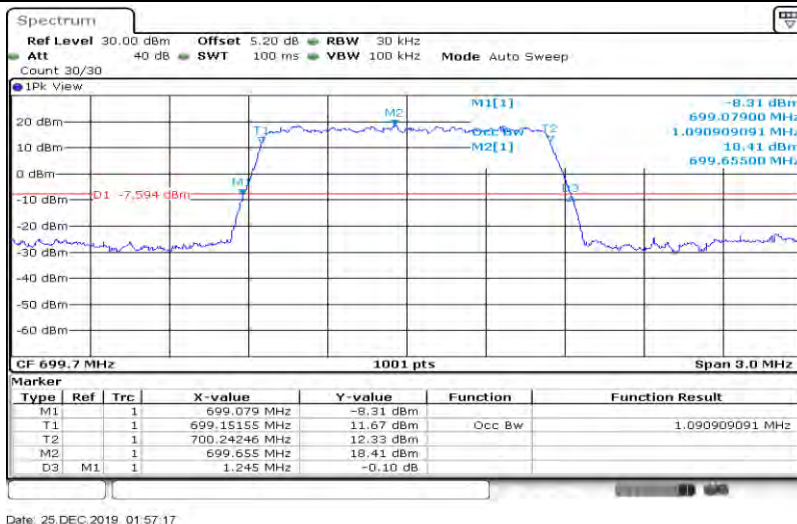
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



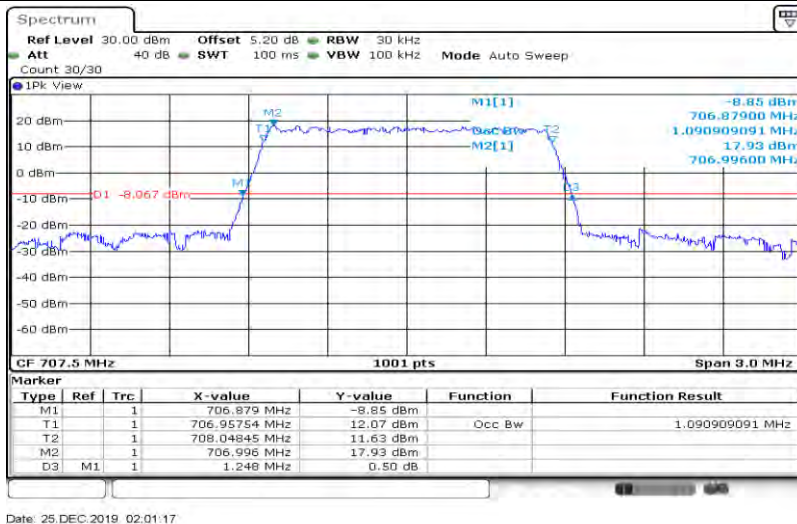
Band12	10MHz	64QAM	23095	50RB#0	8.931	9.640	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.911	9.640	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.911	9.640	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.931	9.660	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.620	PASS

4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.091

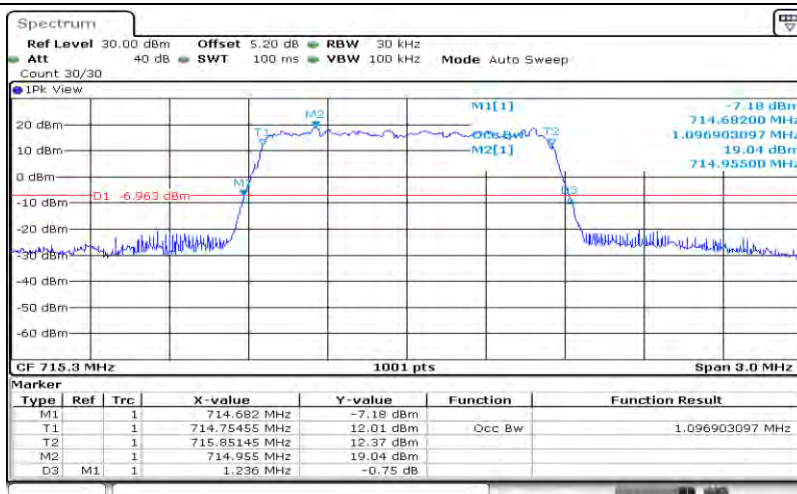


Band12-1.4MHz-QPSK-23095-6RB#0-1.091



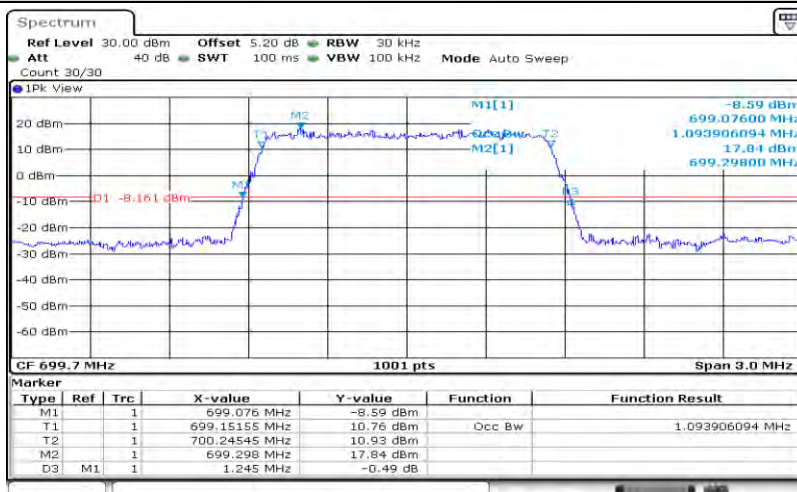
Band12-1.4MHz-QPSK-23173-6RB#0-1.097





Date: 25.DEC.2019 02:03:12

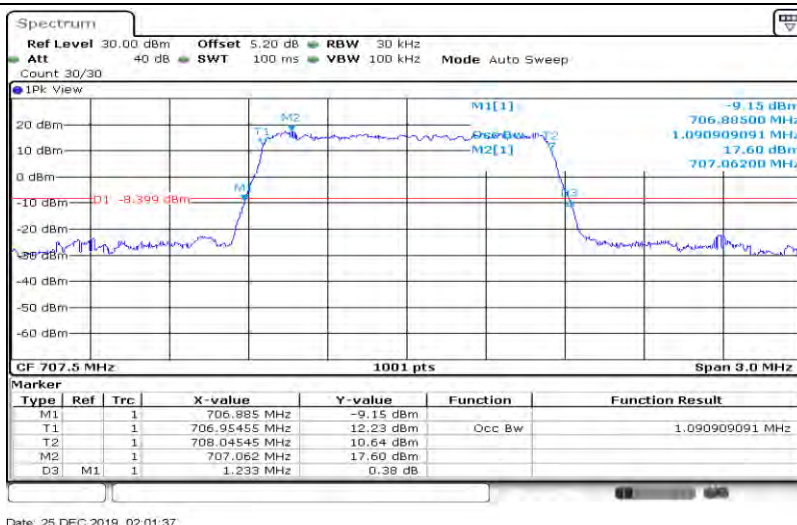
Band12-1.4MHz-64QAM-23017-6RB#0-1.094



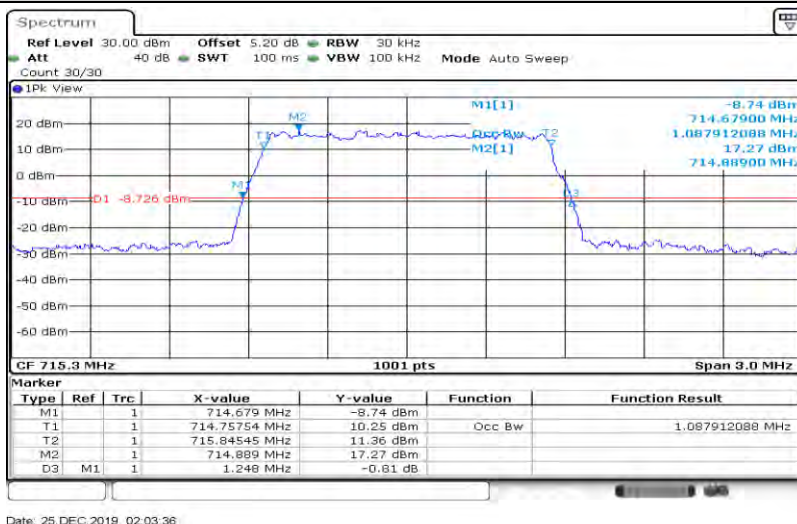
Date: 25.DEC.2019 01:57:41

Band12-1.4MHz-64QAM-23095-6RB#0-1.091



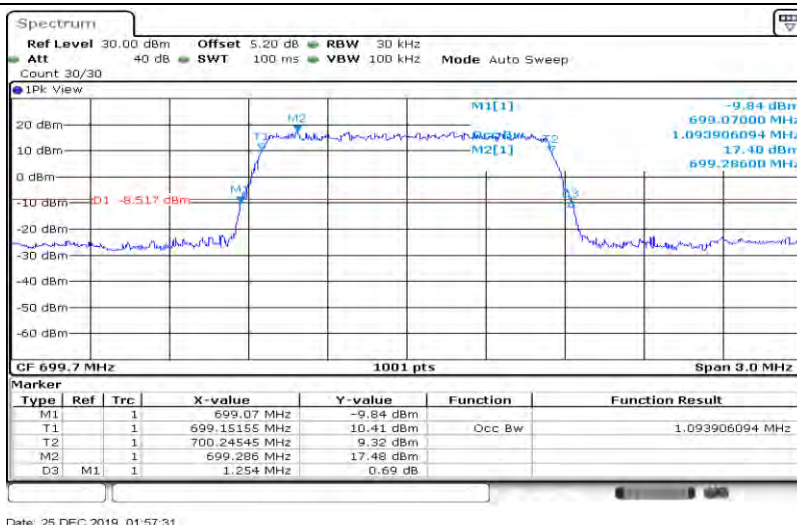


Band12-1.4MHz-64QAM-23173-6RB#0-1.088

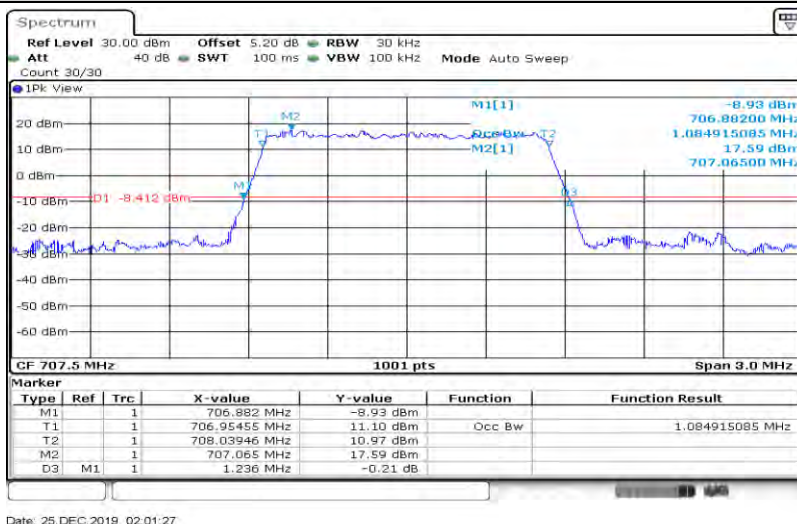


Band12-1.4MHz-16QAM-23017-6RB#0-1.094





Band12-1.4MHz-16QAM-23095-6RB#0-1.085

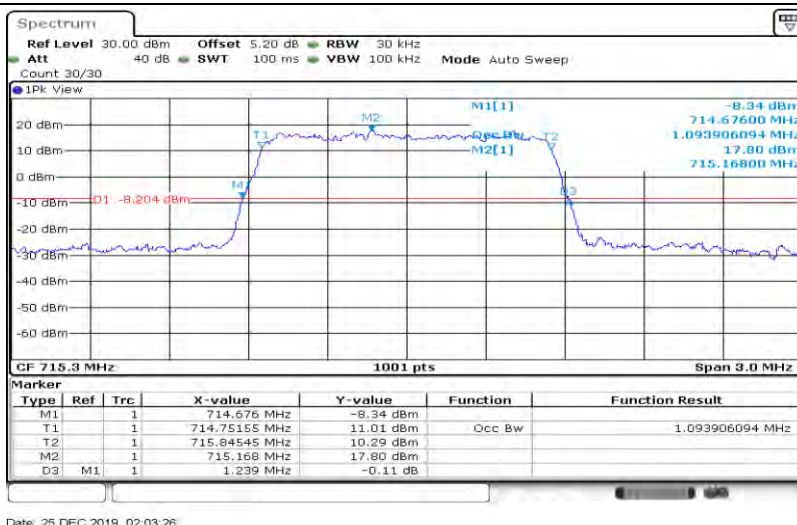


Band12-1.4MHz-16QAM-23173-6RB#0-1.094

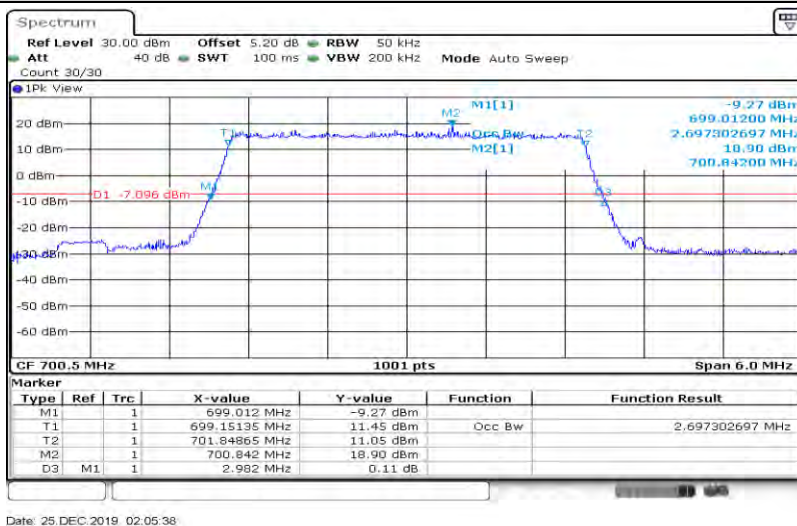


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

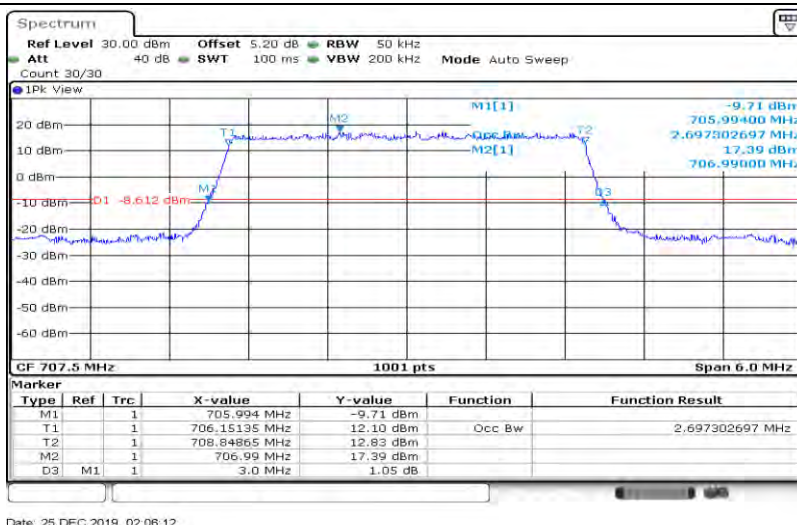


Band12-3MHz-QPSK-23025-15RB#0-2.697

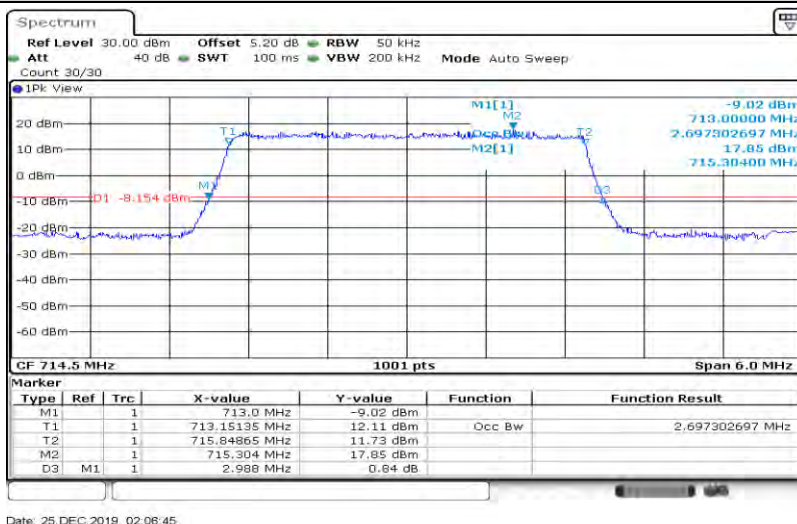


Band12-3MHz-QPSK-23095-15RB#0-2.697





Band12-3MHz-QPSK-23165-15RB#0-2.697

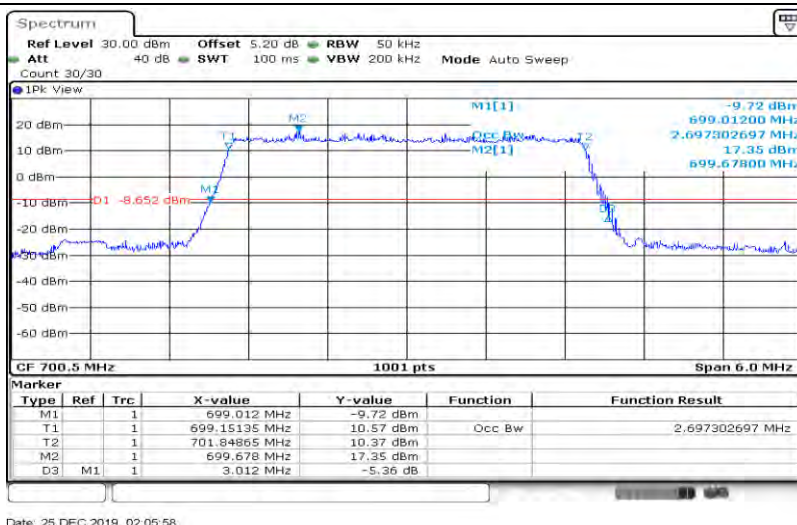


Band12-3MHz-64QAM-23025-15RB#0-2.697

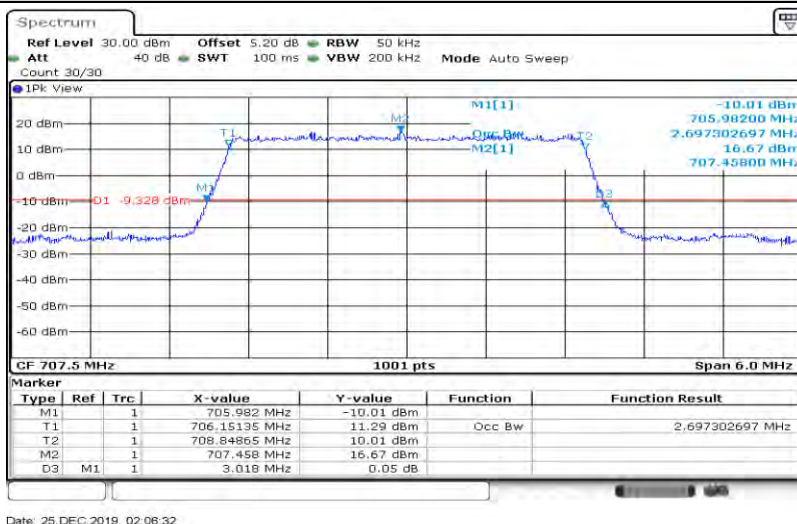


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band12-3MHz-64QAM-23095-15RB#0-2.697

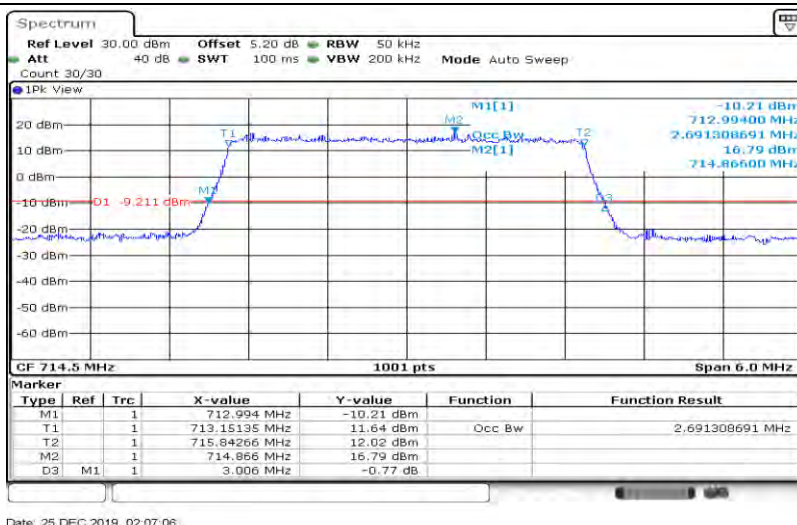


Band12-3MHz-64QAM-23165-15RB#0-2.691

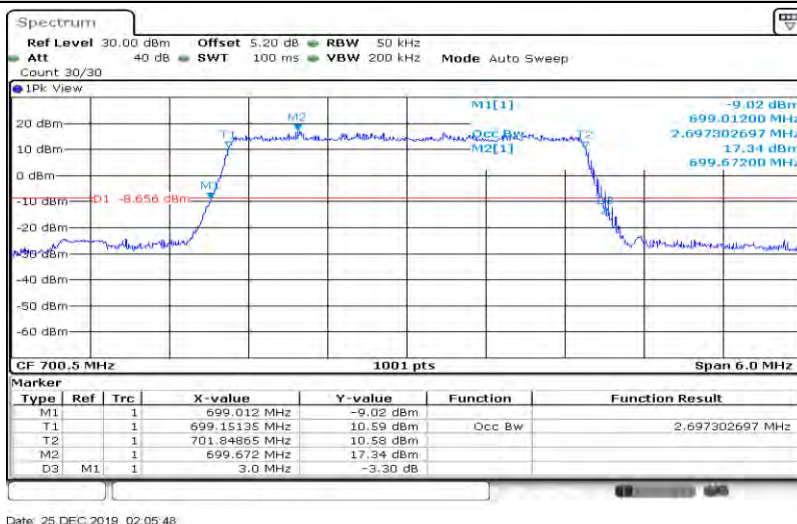


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

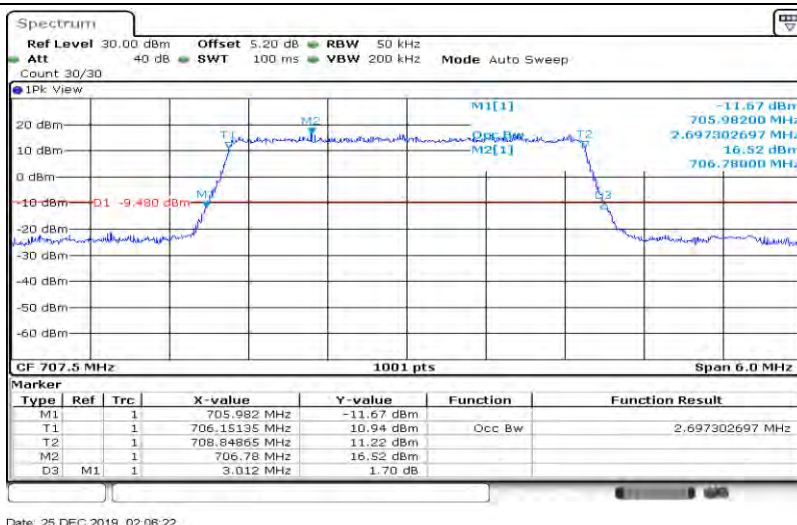


Band12-3MHz-16QAM-23025-15RB#0-2.697

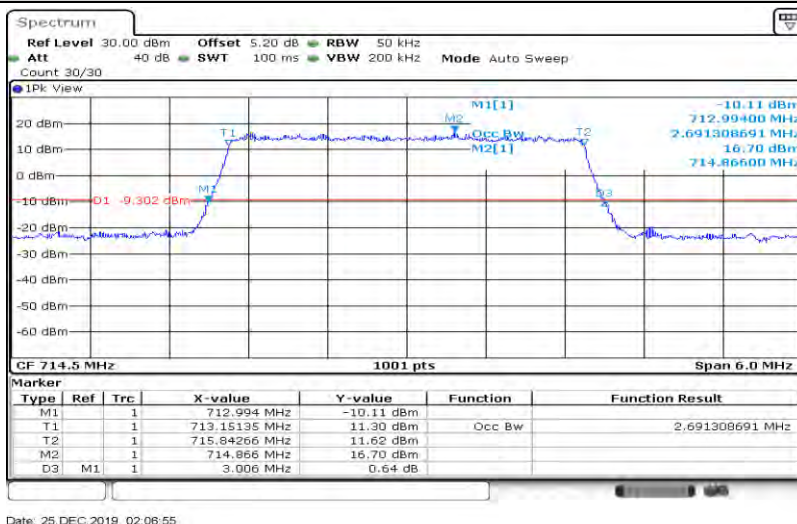


Band12-3MHz-16QAM-23095-15RB#0-2.697



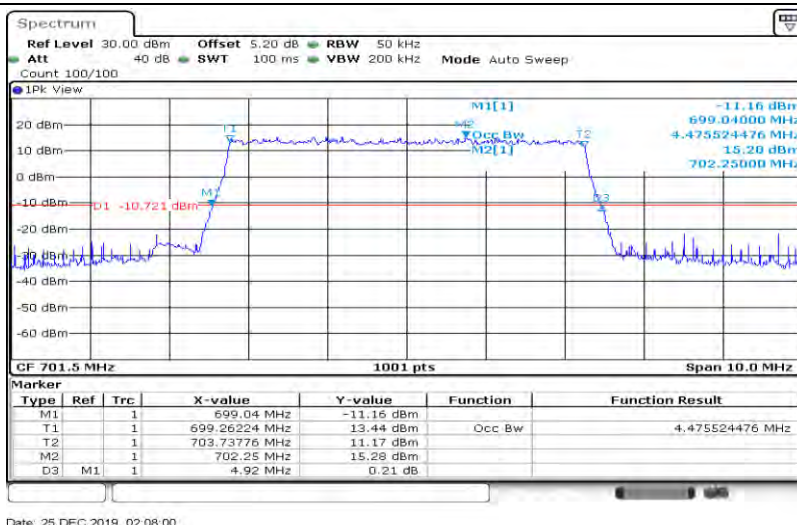


Band12-3MHz-16QAM-23165-15RB#0-2.691

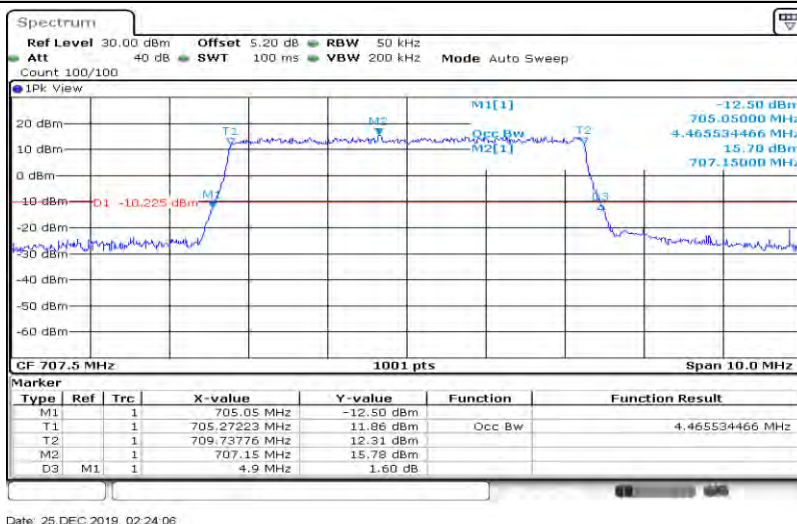


Band12-5MHz-QPSK-23035-25RB#0-4.476





Band12-5MHz-QPSK-23095-25RB#0-4.466

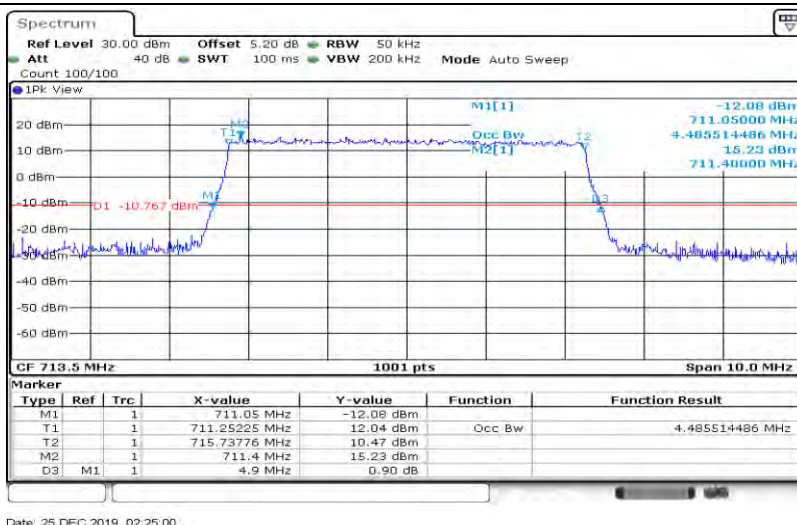


Band12-5MHz-QPSK-23155-25RB#0-4.486

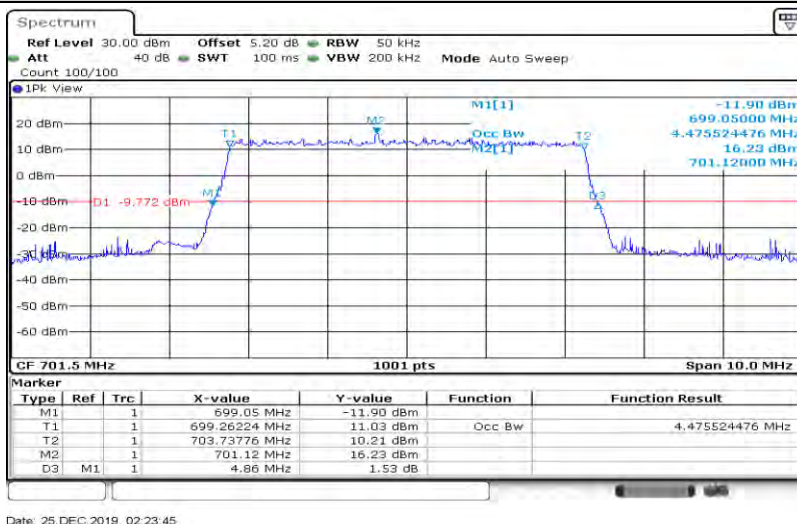


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band12-5MHz-64QAM-23035-25RB#0-4.476

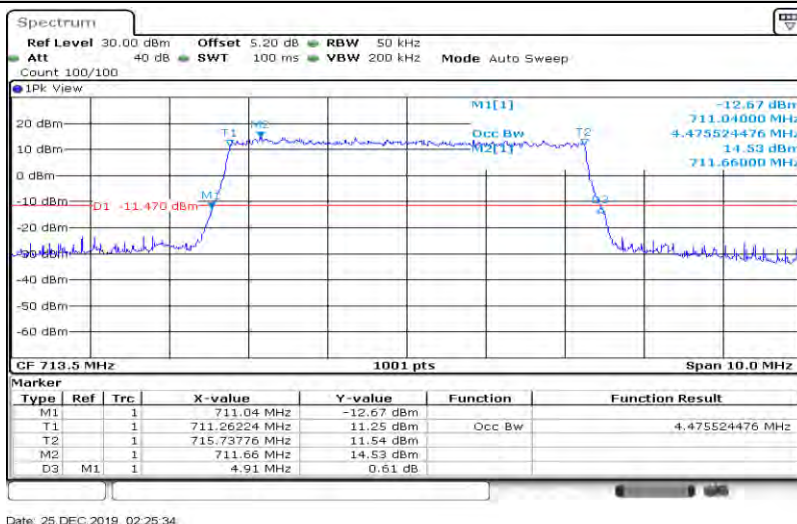


Band12-5MHz-64QAM-23095-25RB#0-4.476





Band12-5MHz-64QAM-23155-25RB#0-4.476

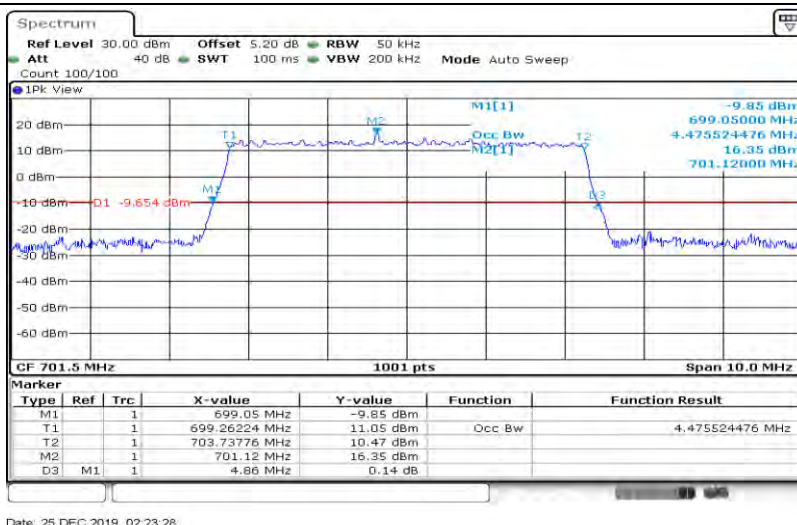


Band12-5MHz-16QAM-23035-25RB#0-4.476

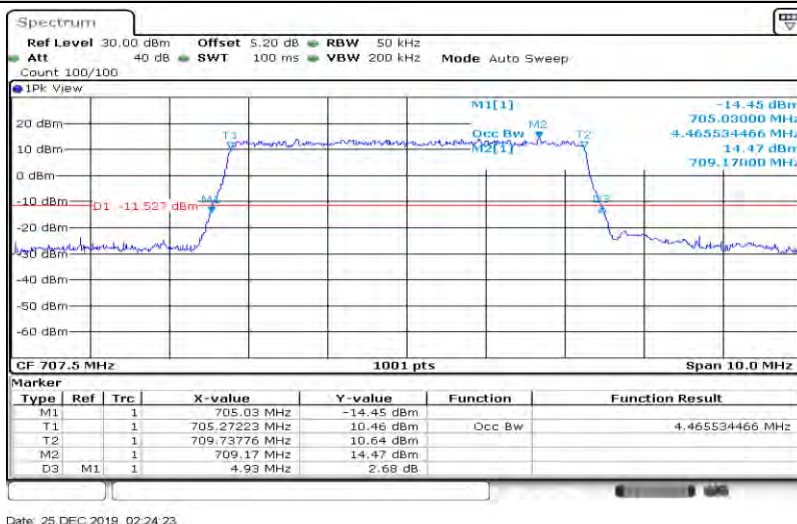


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

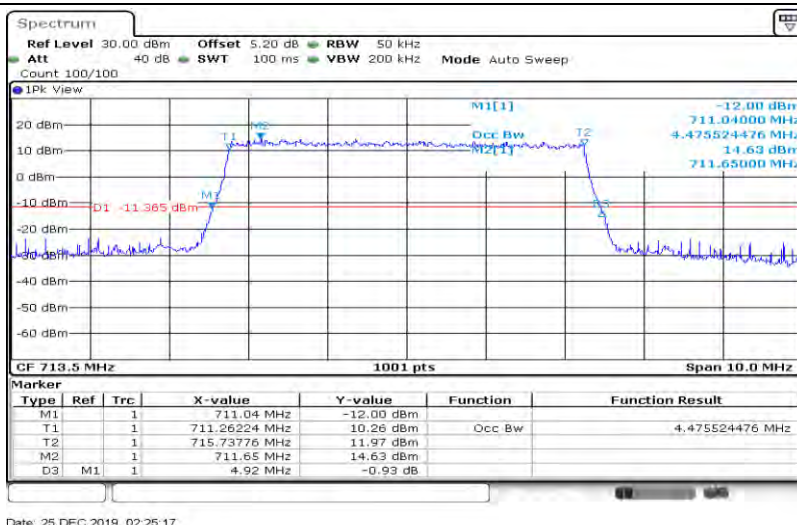


Band12-5MHz-16QAM-23095-25RB#0-4.466



Band12-5MHz-16QAM-23155-25RB#0-4.476





Band12-10MHz-QPSK-23060-50RB#0-8.951

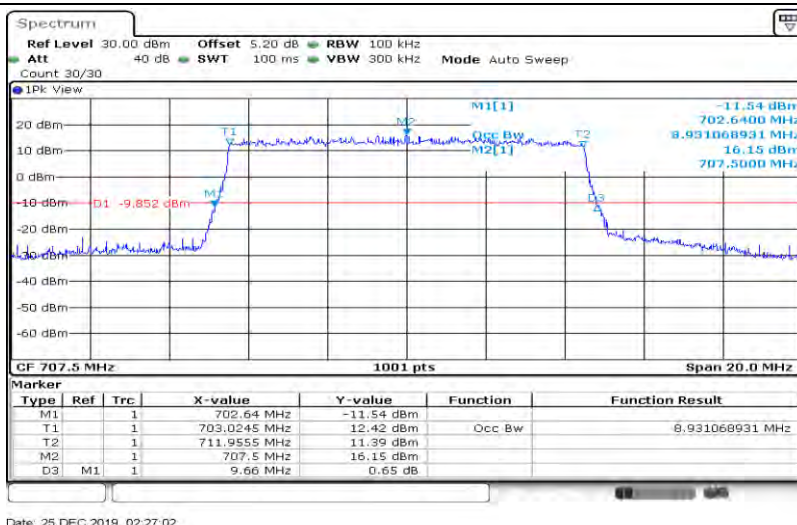


Band12-10MHz-QPSK-23095-50RB#0-8.931

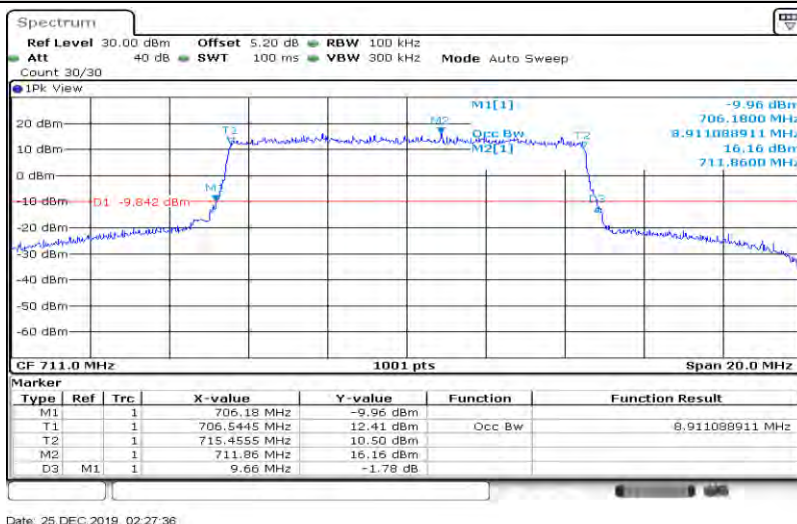


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band12-10MHz-QPSK-23130-50RB#0-8.911



Band12-10MHz-64QAM-23060-50RB#0-8.931

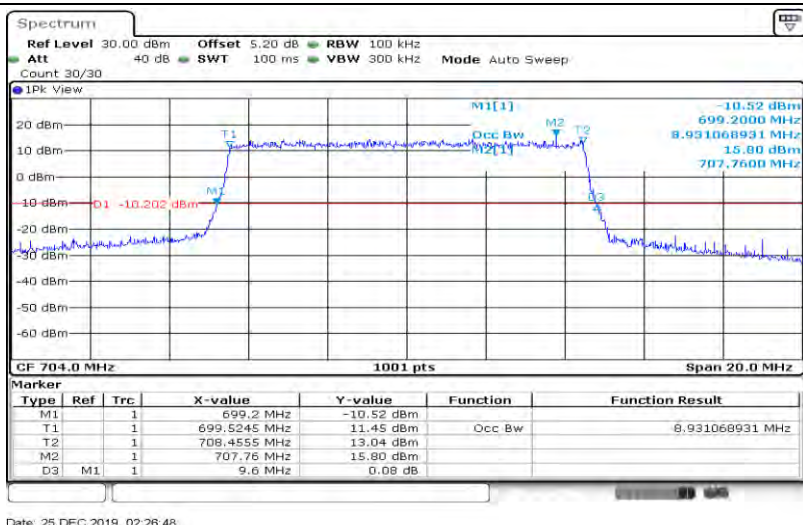


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

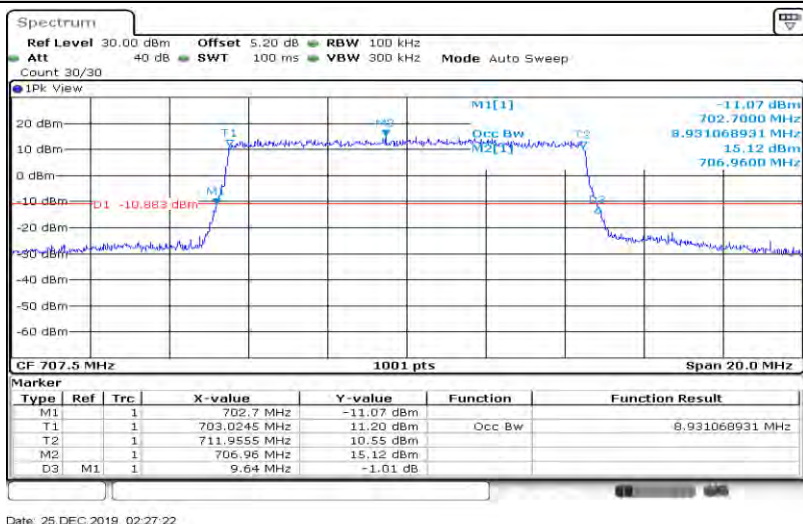
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

Member of the SGS Group (SGS SA)



Band12-10MHz-64QAM-23095-50RB#0-8.931

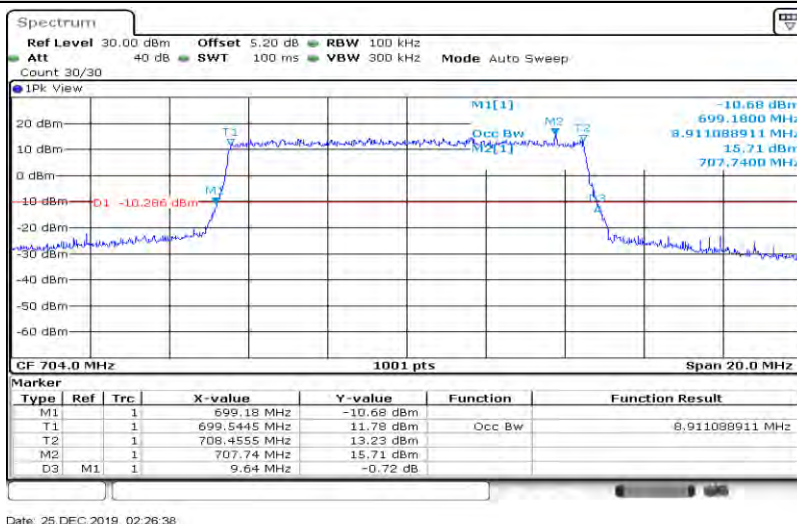


Band12-10MHz-64QAM-23130-50RB#0-8.911



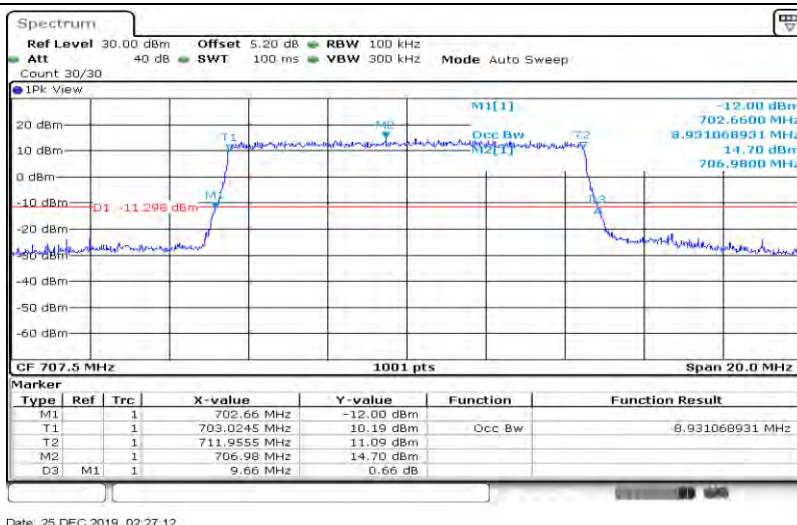


Band12-10MHz-16QAM-23060-50RB#0-8.911

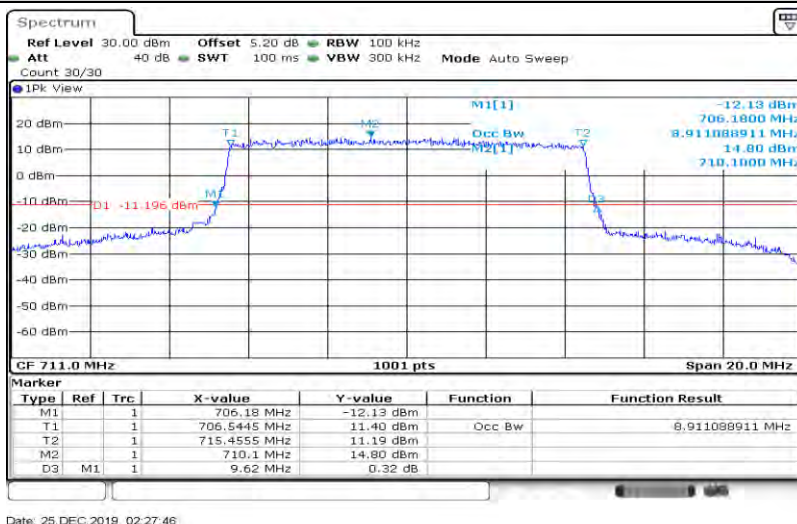


Band12-10MHz-16QAM-23095-50RB#0-8.931





Band12-10MHz-16QAM-23130-50RB#0-8.911





5. Band Edge Compliance

5.1. Test Plots

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23173-1RB#5



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



Date: 25 DEC 2019 02:32:33

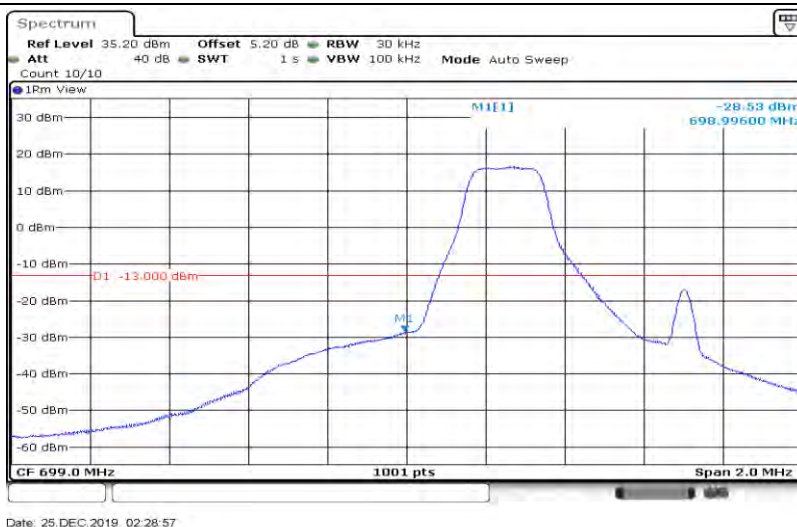
Band12-1.4MHz-QPSK-23173-6RB#0



Date: 25 DEC 2019 02:33:26

Band12-1.4MHz-64QAM-23017-1RB#0





Band12-1.4MHz-64QAM-23017-6RB#0



Band12-1.4MHz-64QAM-23173-1RB#5



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

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

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



Band12-1.4MHz-64QAM-23173-6RB#0

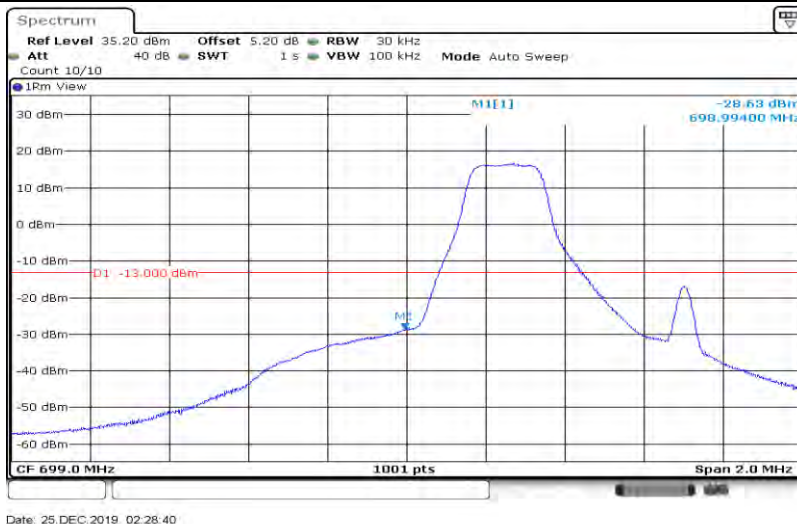


Band12-1.4MHz-16QAM-23017-1RB#0



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

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



Band12-1.4MHz-16QAM-23017-6RB#0



Band12-1.4MHz-16QAM-23173-1RB#5





Band12-1.4MHz-16QAM-23173-6RB#0



Band12-3MHz-QPSK-23025-1RB#0



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

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

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



Date: 25 DEC 2019 02:35:40

Band12-3MHz-QPSK-23025-15RB#0



Date: 25 DEC 2019 02:36:32

Band12-3MHz-QPSK-23165-1RB#14



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



Date: 25 DEC 2019 02:37:31

Band12-3MHz-QPSK-23165-15RB#0



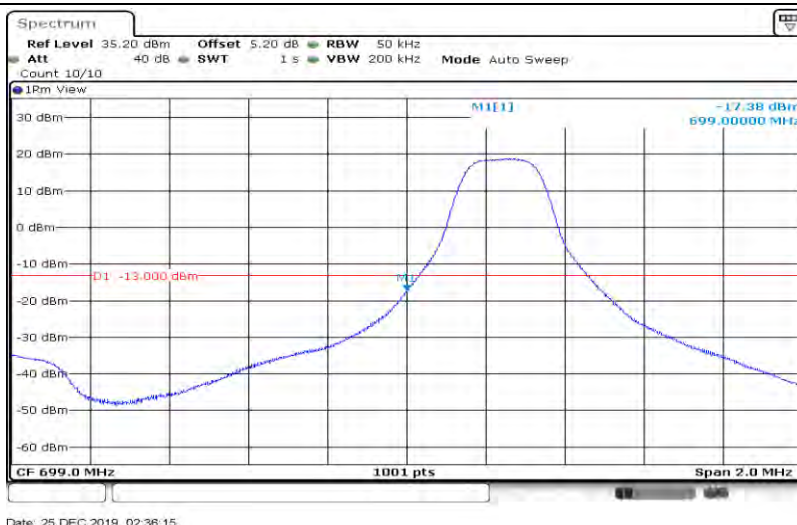
Date: 25 DEC 2019 02:38:24

Band12-3MHz-64QAM-23025-1RB#0



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

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

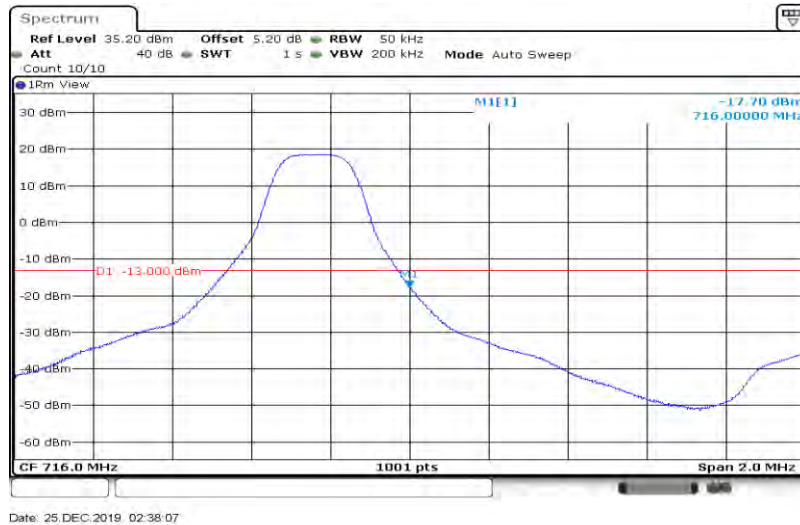


Band12-3MHz-64QAM-23025-15RB#0

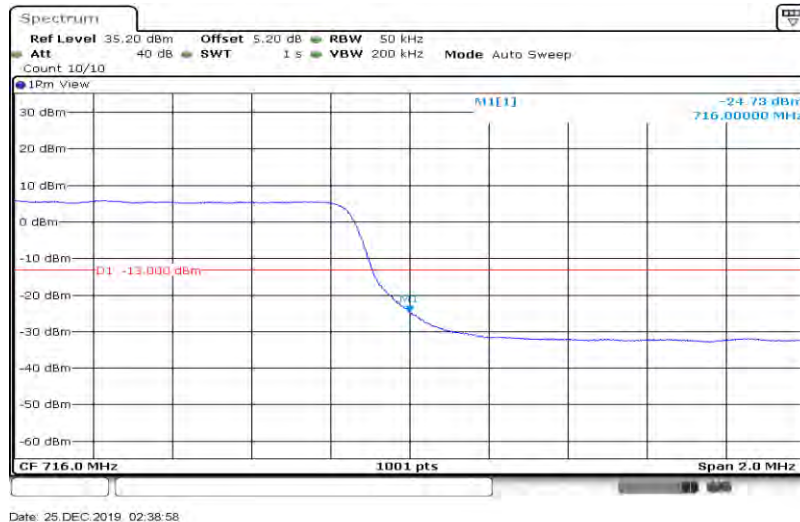


Band12-3MHz-64QAM-23165-1RB#14





Band12-3MHz-64QAM-23165-15RB#0



Band12-3MHz-16QAM-23025-1RB#0



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

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



Band12-3MHz-16QAM-23025-15RB#0



Band12-3MHz-16QAM-23165-1RB#14



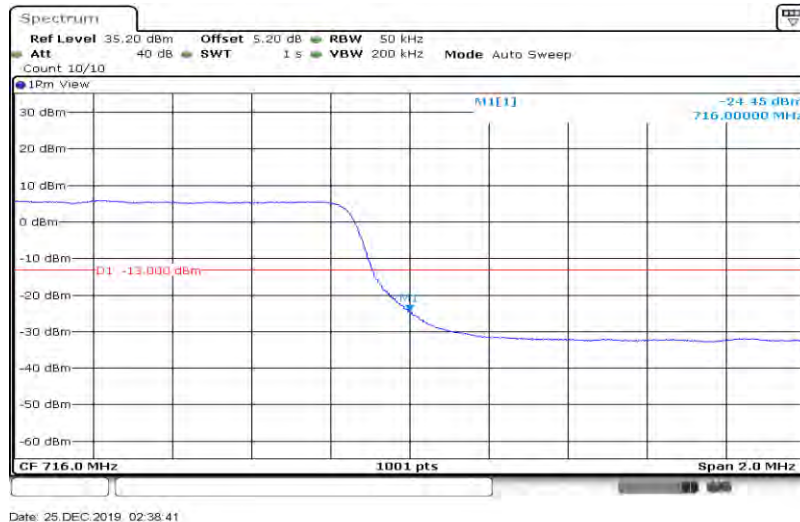
Unless otherwise agreed in writing this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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 deemed to have accepted the terms and conditions of the document and to have agreed to be bound by the terms and conditions of the 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 omission of any part of the document is strictly prohibited and may constitute a criminal offence. If the holder has 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 (Shenzhen CEMC Laboratory)

Or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.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



Band12-3MHz-16QAM-23165-15RB#0



Band12-5MHz-QPSK-23035-1RB#0



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

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

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



Band12-5MHz-QPSK-23035-25RB#0



Band12-5MHz-QPSK-23155-1RB#24





Band12-5MHz-QPSK-23155-25RB#0



Band12-5MHz-64QAM-23035-1RB#0





Band12-5MHz-64QAM-23035-25RB#0

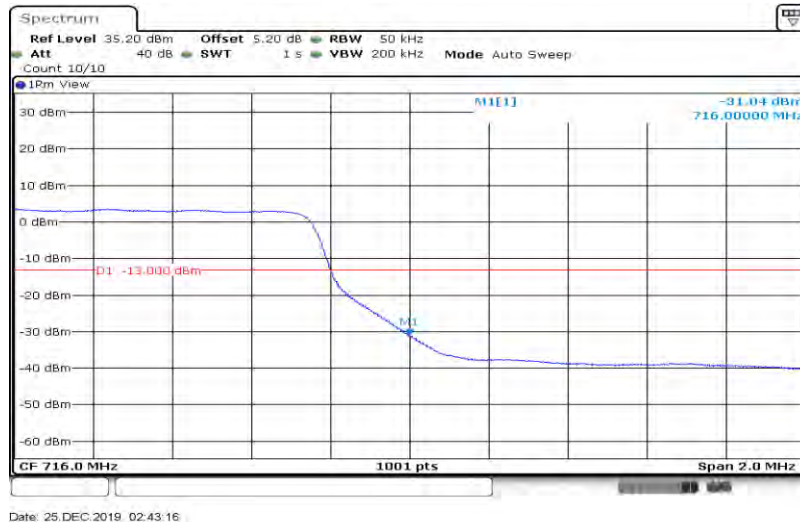


Band12-5MHz-64QAM-23155-1RB#24





Band12-5MHz-64QAM-23155-25RB#0



Band12-5MHz-16QAM-23035-1RB#0



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

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

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



Band12-5MHz-16QAM-23035-25RB#0



Band12-5MHz-16QAM-23155-1RB#24





Date: 25 DEC 2019 02:42:06

Band12-5MHz-16QAM-23155-25RB#0



Date: 25 DEC 2019 02:42:58

Band12-10MHz-QPSK-23060-1RB#0



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

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



Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23130-1RB#49



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

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

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594
t (86-755) 26012053 f (86-755) 26710594

www.sgsgroup.com.cn
sgs.china@sgs.com



Date: 25 DEC 2019 02:46:14

Band12-10MHz-QPSK-23130-50RB#0



Date: 25 DEC 2019 02:47:08

Band12-10MHz-64QAM-23060-1RB#0



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

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



Band12-10MHz-64QAM-23060-50RB#0



Band12-10MHz-64QAM-23130-1RB#49





Band12-10MHz-64QAM-23130-50RB#0



Band12-10MHz-16QAM-23060-1RB#0





Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-1RB#49



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



Date: 25 DEC 2019 02:46:32

Band12-10MHz-16QAM-23130-50RB#0



Date: 25 DEC 2019 02:47:26



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

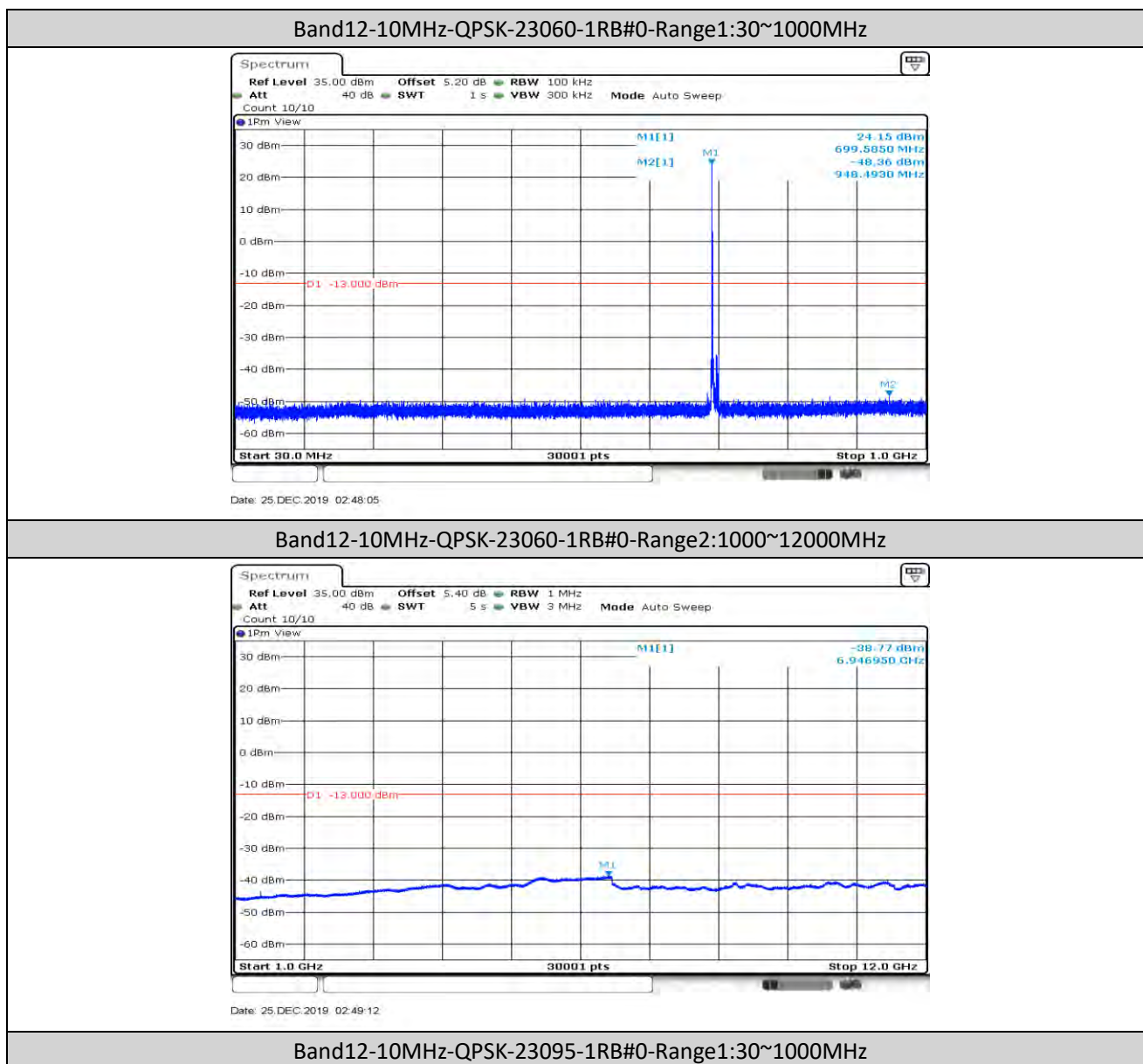
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

6. Spurious Emission at Antenna Terminal

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

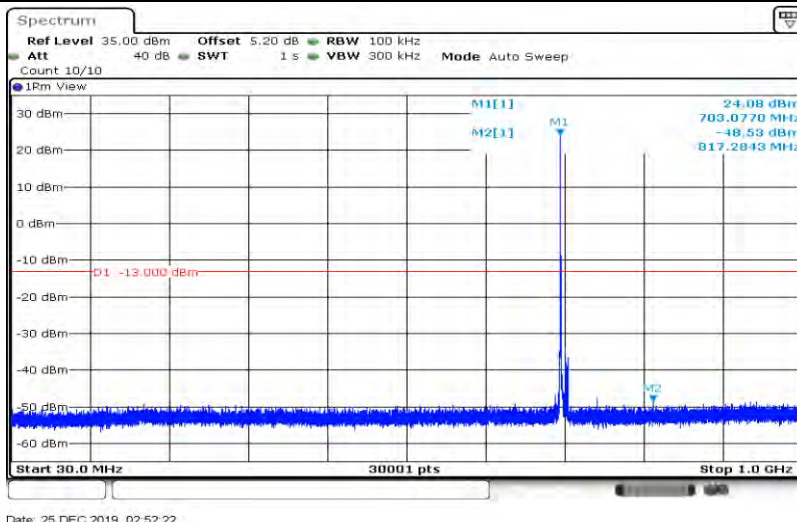
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

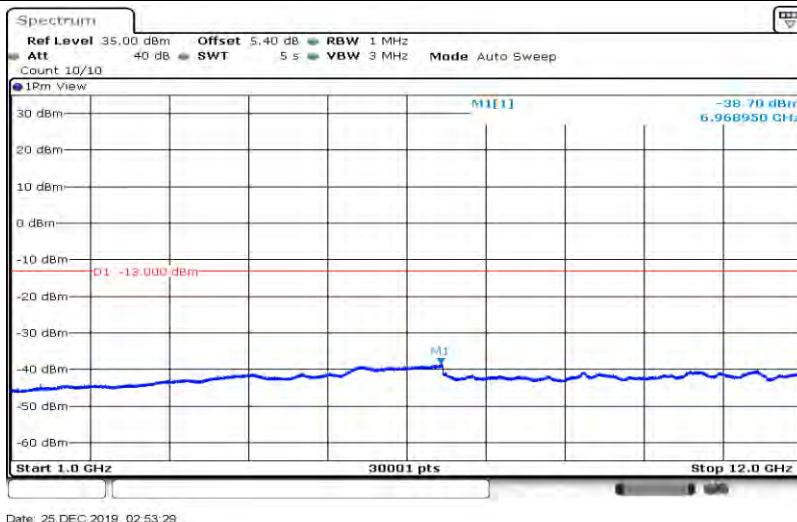


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~12000MHz

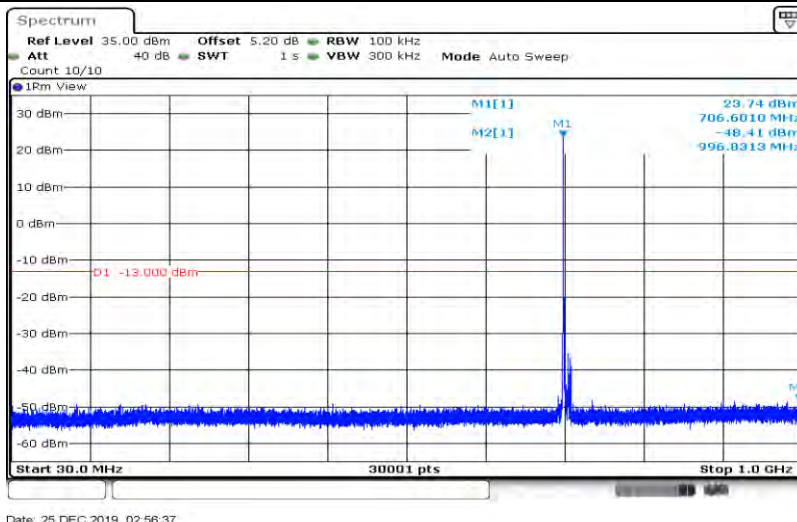


Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz

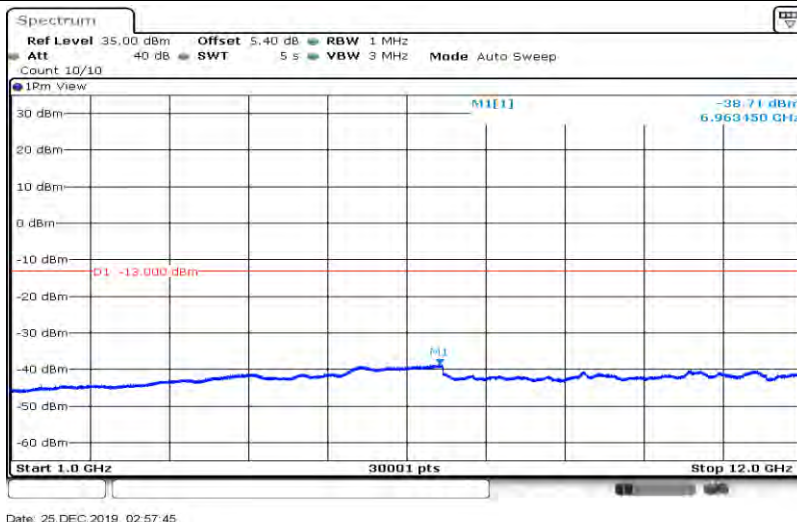


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

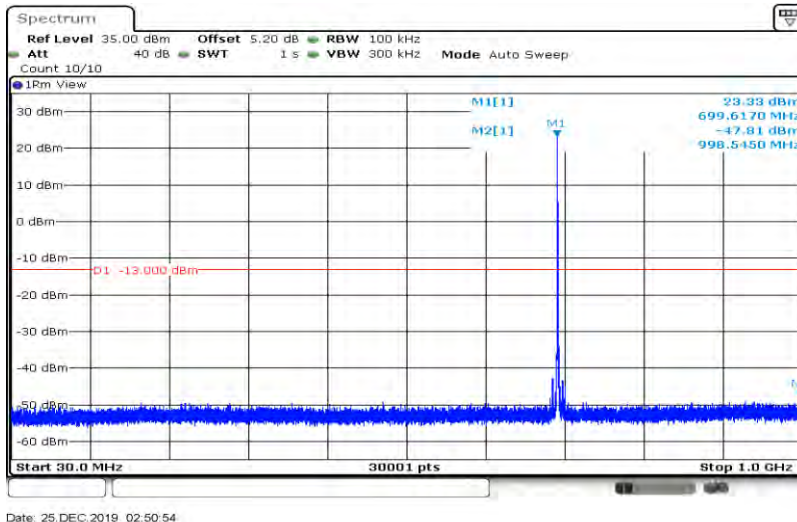


Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~12000MHz

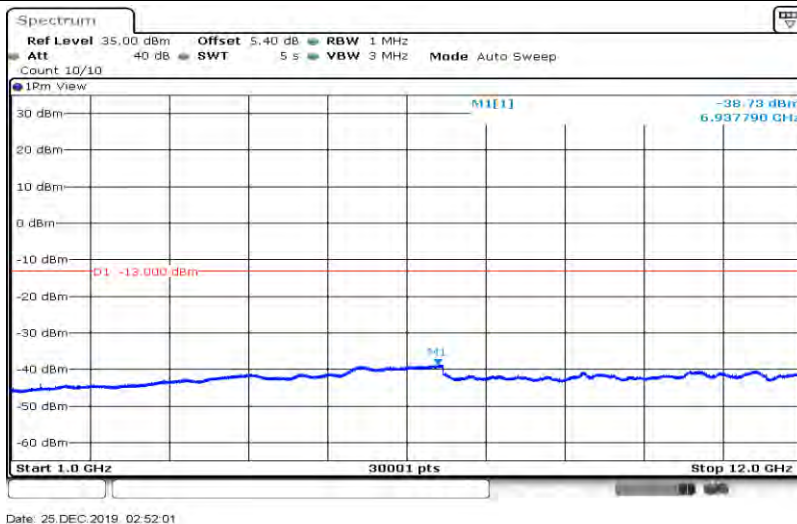


Band12-10MHz-64QAM-23060-1RB#0-Range1:30~1000MHz



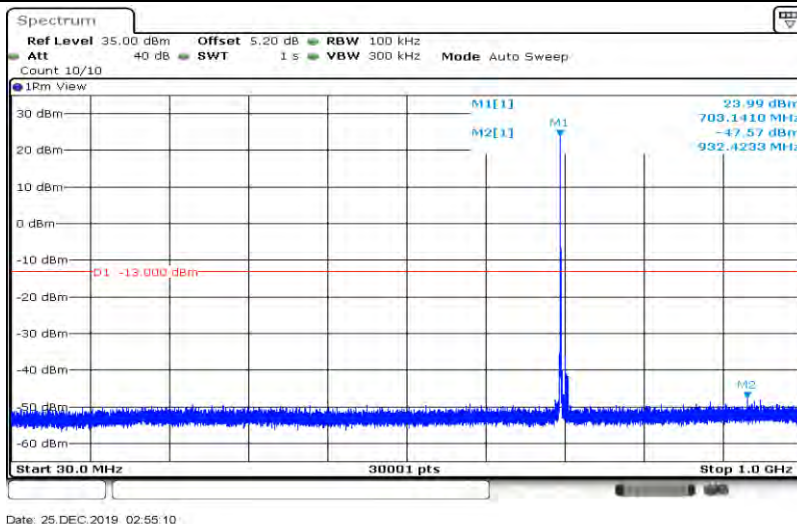


Band12-10MHz-64QAM-23060-1RB#0-Range2:1000~12000MHz

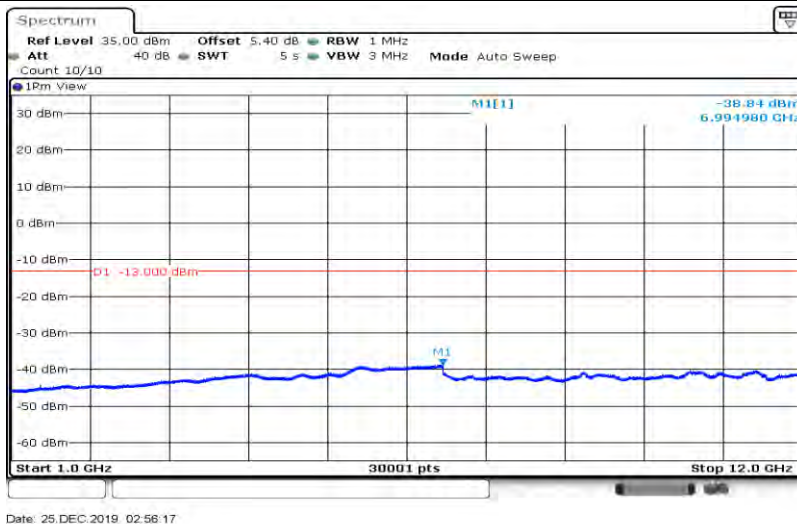


Band12-10MHz-64QAM-23095-1RB#0-Range1:30~1000MHz



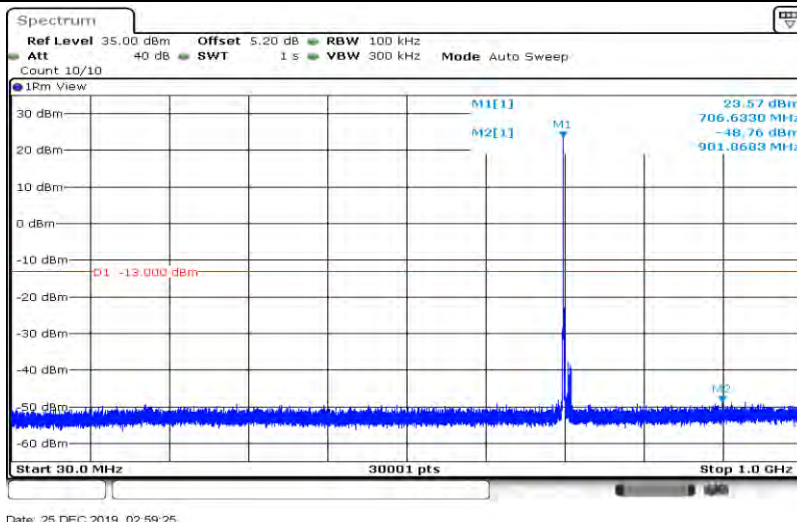


Band12-10MHz-64QAM-23095-1RB#0-Range2:1000~12000MHz

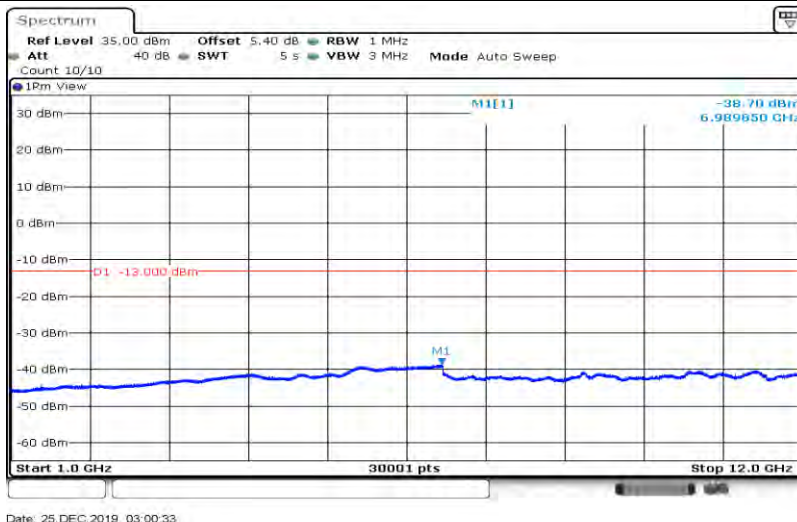


Band12-10MHz-64QAM-23130-1RB#0-Range1:30~1000MHz





Band12-10MHz-64QAM-23130-1RB#0-Range2:1000~12000MHz

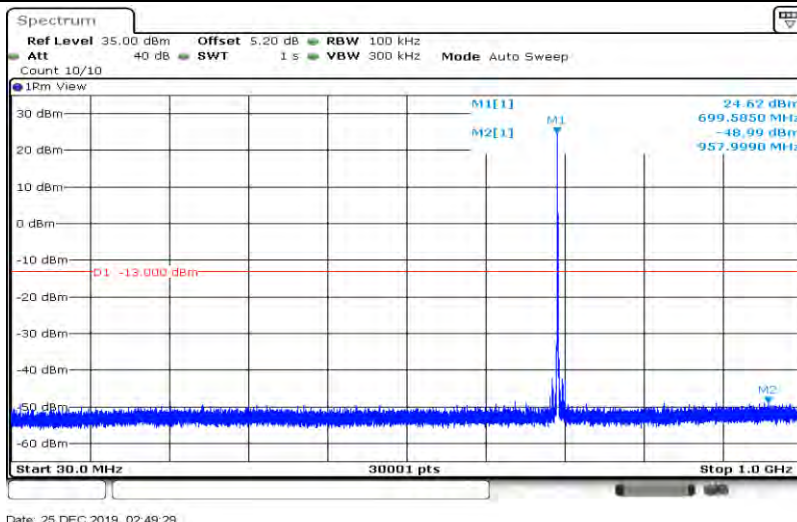


Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz

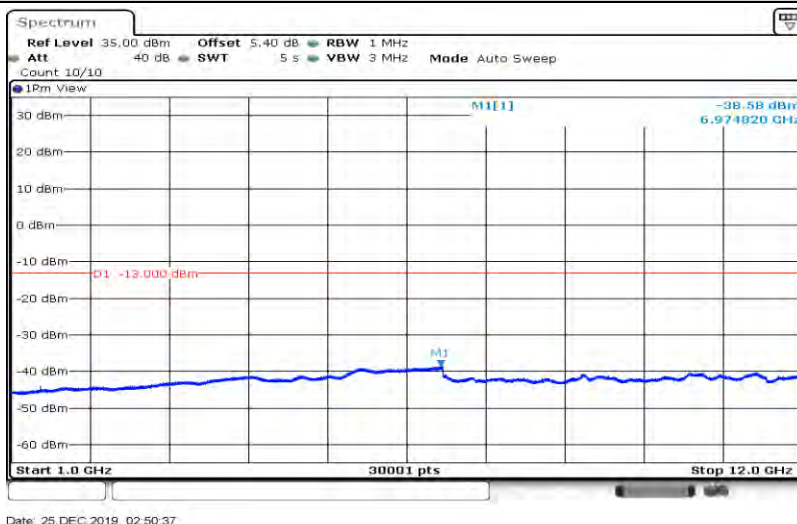


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

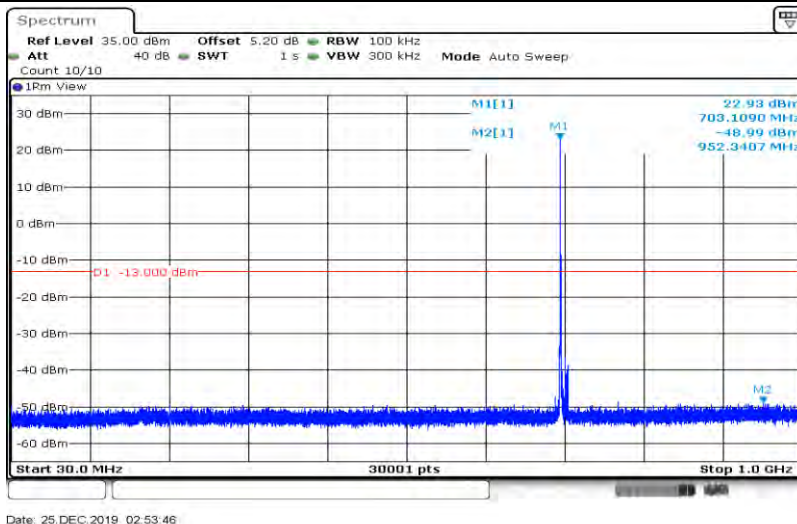


Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~12000MHz

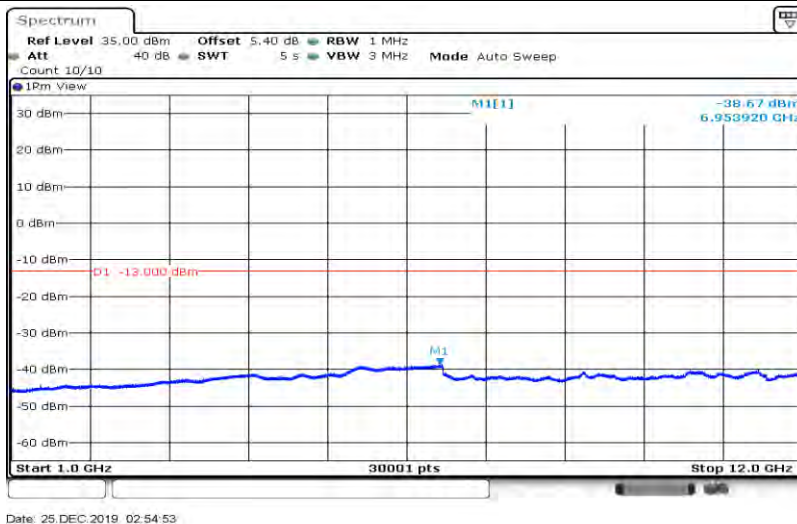


Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



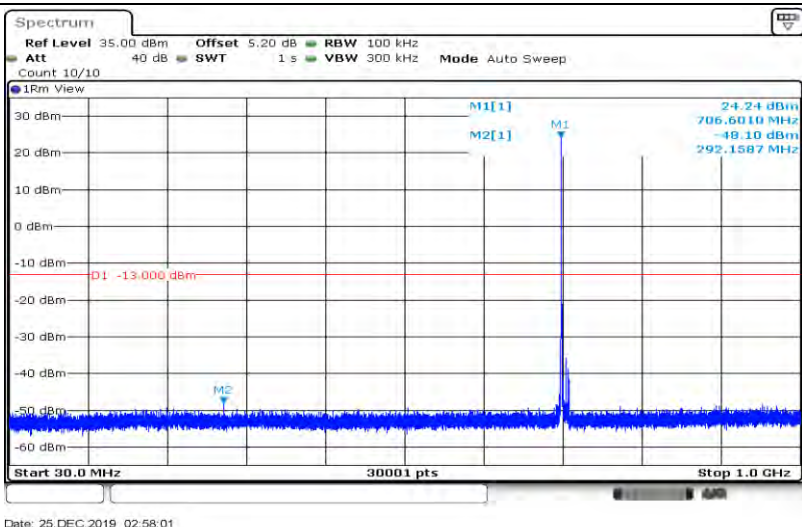


Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~12000MHz

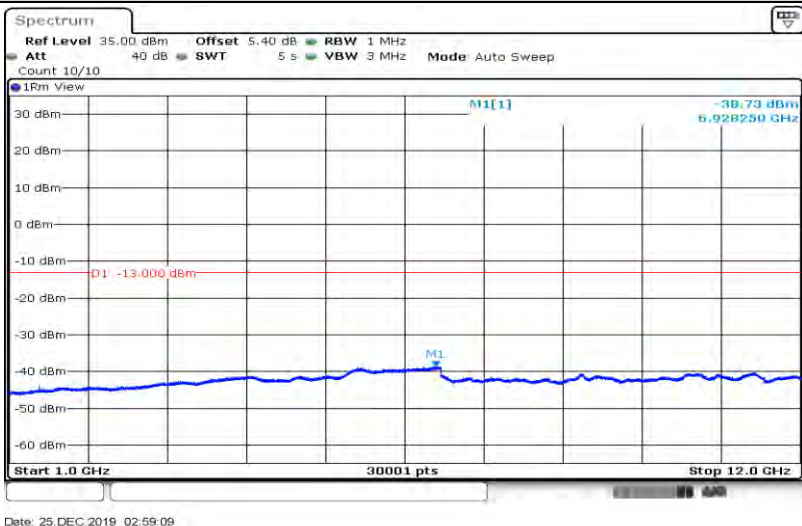


Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz





Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~12000MHz





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 (Ant0)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.6224	-65.24	-13.00	52.24	Vertical
561.2471	-65.53	-13.00	52.53	Vertical
992.7246	-56.95	-13.00	43.95	Vertical
1838.5677	-58.05	-13.00	45.05	Vertical
14687.2675	-48.59	-13.00	35.59	Vertical
17998.8000	-40.72	-13.00	27.72	Vertical
40.6705	-64.90	-13.00	51.90	Horizontal
239.1425	-68.32	-13.00	55.32	Horizontal
997.3809	-56.72	-13.00	43.72	Horizontal
1398.8798	-64.54	-13.00	51.54	Horizontal
9315.2526	-52.97	-13.00	39.97	Horizontal
16377.5351	-44.19	-13.00	31.19	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
105.7608	-65.40	-13.00	52.40	Vertical
487.3294	-67.10	-13.00	54.10	Vertical
993.2582	-56.85	-13.00	43.85	Vertical
1406.0812	-63.12	-13.00	50.12	Vertical
14479.0592	-49.20	-13.00	36.20	Vertical
17987.9995	-42.44	-13.00	29.44	Vertical
42.8046	-64.52	-13.00	51.52	Horizontal
233.2737	-68.70	-13.00	55.70	Horizontal
999.4180	-56.96	-13.00	43.96	Horizontal
1406.0812	-59.33	-13.00	46.33	Horizontal
7468.3787	-57.77	-13.00	44.77	Horizontal
16396.1358	-44.92	-13.00	31.92	Horizontal



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

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

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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.7080	-65.50	-13.00	52.50	Vertical
437.6629	-67.64	-13.00	54.64	Vertical
984.7702	-57.93	-13.00	44.93	Vertical
1413.2827	-65.92	-13.00	52.92	Vertical
14490.4596	-50.24	-13.00	37.24	Vertical
16378.1351	-50.45	-13.00	37.45	Vertical
39.7490	-65.67	-13.00	52.67	Horizontal
226.2408	-69.02	-13.00	56.02	Horizontal
999.8060	-56.71	-13.00	43.71	Horizontal
1412.8826	-64.54	-13.00	51.54	Horizontal
7962.7985	-58.00	-13.00	45.00	Horizontal
16396.7359	-46.24	-13.00	33.24	Horizontal

7.2. Test Mode =LTE/TM1 (Ant1)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.9134	-65.35	-13.00	52.35	Vertical
465.3578	-66.79	-13.00	53.79	Vertical
2992.3985	-56.26	-13.00	43.26	Vertical
7363.3745	-56.88	-13.00	43.88	Vertical
14494.6598	-48.87	-13.00	35.87	Vertical
17994.5998	-42.36	-13.00	29.36	Vertical
41.7376	-64.12	-13.00	51.12	Horizontal
231.0426	-67.63	-13.00	54.63	Horizontal
576.9133	-63.93	-13.00	50.93	Horizontal
2695.5391	-56.13	-13.00	43.13	Horizontal
9997.4799	-54.21	-13.00	41.21	Horizontal
16398.5359	-45.84	-13.00	32.84	Horizontal





7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.3015	-64.46	-13.00	51.46	Vertical
509.4950	-65.96	-13.00	52.96	Vertical
987.1954	-57.46	-13.00	44.46	Vertical
2999.1998	-56.34	-13.00	43.34	Vertical
14474.2590	-50.97	-13.00	37.97	Vertical
17999.4000	-45.94	-13.00	32.94	Vertical
41.3981	-63.31	-13.00	50.31	Horizontal
227.8899	-68.54	-13.00	55.54	Horizontal
979.6775	-57.64	-13.00	44.64	Horizontal
2689.9380	-56.30	-13.00	43.30	Horizontal
10011.8805	-54.29	-13.00	41.29	Horizontal
16372.1349	-47.29	-13.00	34.29	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.6068	-64.91	-13.00	51.91	Vertical
562.0716	-66.35	-13.00	53.35	Vertical
1000.0000	-56.95	-13.00	43.95	Vertical
2951.5903	-56.89	-13.00	43.89	Vertical
14480.8592	-51.89	-13.00	38.89	Vertical
17998.8000	-47.57	-13.00	34.57	Vertical
39.9915	-64.82	-13.00	51.82	Horizontal
231.0426	-68.14	-13.00	55.14	Horizontal
998.6419	-56.84	-13.00	43.84	Horizontal
2693.9388	-56.10	-13.00	43.10	Horizontal
10008.2803	-54.86	-13.00	41.86	Horizontal
16390.7356	-49.32	-13.00	36.32	Horizontal

Remark:

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





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-4.40	-0.006250	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-1.10	-0.001563	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-2.70	-0.003835	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	3.20	0.004523	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-5.40	-0.007633	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	0.20	0.000281	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-4.70	-0.006610	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-5.30	-0.007454	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	0.40	0.000568	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	-1.80	-0.002557	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	5.00	0.007102	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	-1.70	-0.002403	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	2.50	0.003534	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	-0.90	-0.001272	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	1.60	0.002250	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-2.90	-0.004079	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-1.70	-0.002415	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-2.30	-0.003267	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	1.60	0.002261	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	0.40	0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	3.50	0.004947	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-4.40	-0.006188	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-4.90	-0.006892	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-3.10	-0.004360	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-1.60	-0.002273	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	2.50	0.003551	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-1.10	-0.001563	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-4.30	-0.006108	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-2.90	-0.004119	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	4.30	0.006108	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	2.00	0.002841	±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) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.50	0.002120	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.80	-0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.90	-0.004099	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.50	0.000707	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-1.20	-0.001688	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-5.70	-0.008017	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.80	-0.005345	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	1.90	0.002672	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-2.50	-0.003516	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	2.70	0.003797	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	2.80	0.003977	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	3.20	0.004545	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	2.00	0.002841	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	-2.20	-0.003125	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	-3.00	-0.004261	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	-2.80	-0.003977	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	40	-3.60	-0.005114	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	50	4.30	0.006108	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	-1.70	-0.002403	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	1.30	0.001837	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	3.30	0.004664	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	1.30	0.001837	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	2.80	0.003958	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	2.70	0.003816	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	2.00	0.002827	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	0	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	-2.80	-0.003938	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	-2.40	-0.003376	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	-1.20	-0.001688	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	1.60	0.002273	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	2.90	0.004119	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-5.30	-0.007528	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-4.90	-0.006960	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-4.30	-0.006108	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-4.30	-0.006108	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	4.80	0.006818	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-4.40	-0.006250	±2.5	PASS



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

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

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

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



Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-4.10	-0.005795	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-3.00	-0.004240	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-2.20	-0.003110	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-1.30	-0.001837	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-1.40	-0.001979	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-1.70	-0.002403	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	0.60	0.000844	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	1.30	0.001828	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	1.80	0.002532	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	2.30	0.003235	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	2.20	0.003094	±2.5	PASS

The End

