



Appendix B

E-UTRA Band 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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	3
1.1.	TEST RESULT.....	3
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	11
2.1.	TEST RESULT.....	11
2.2.	TEST PLOTS.....	11
3.	MODULATION CHARACTERISTICS.....	16
3.1.	TEST MODE = LTE /TM1 10MHZ.....	16
3.1.1.	TEST CHANNEL = MCH.....	16
3.2.	TEST MODE = LTE /TM2 10MHZ.....	17
3.2.1.	TEST CHANNEL = MCH.....	17
3.3.	TEST MODE = LTE /TM3 10MHZ.....	18
3.3.1.	TEST CHANNEL = MCH.....	18
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	19
4.1.	TEST RESULT.....	19
4.2.	TEST PLOTS.....	20
5.	BAND EDGE COMPLIANCE.....	39
5.1.	TEST RESULT.....	39
5.2.	TEST PLOTS.....	40
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	65
6.1.	TEST PLOTS.....	65
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	75
7.1.	TEST MODE =LTE/TM1 10MHZ.....	75
7.1.1.	TEST CHANNEL = LCH.....	75
7.1.2.	TEST CHANNEL = MCH.....	75
7.1.3.	TEST CHANNEL = HCH.....	76
8.	FREQUENCY STABILITY.....	77
8.1.	FREQUENCY VS VOLTAGE.....	77
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
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

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.27	18.12	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.27	18.12	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.02	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.96	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#2	24.02	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.13	17.98	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.23	17.08	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.27	18.12	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.98	17.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.06	17.91	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.07	17.92	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#2	24.34	18.19	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.33	18.18	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.32	17.17	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.16	18.01	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.89	17.74	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.00	17.85	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.02	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#2	24.29	18.14	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.27	18.12	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.22	17.07	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.36	16.21	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.42	16.27	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.39	16.24	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	22.39	16.24	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#2	22.44	16.29	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	22.39	16.24	38.45	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



Band5	1.4MHz	64QAM	20407	6RB#0	21.54	15.39	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.41	16.26	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.36	16.21	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.38	16.23	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	22.42	16.27	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#2	22.45	16.30	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	22.43	16.28	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.47	15.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.43	16.28	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.40	16.25	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.46	16.31	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	22.41	16.26	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#2	22.47	16.32	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	22.39	16.24	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.34	15.19	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.66	17.51	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.71	17.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.84	17.69	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.17	17.02	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#2	23.29	17.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.29	17.14	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.31	16.16	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.55	17.40	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.64	17.49	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.44	17.29	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.46	17.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#2	23.30	17.15	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.56	17.41	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.51	16.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.49	17.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.59	17.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.34	17.19	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.37	17.22	38.45	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



Band5	1.4MHz	16QAM	20643	3RB#2	23.19	17.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.49	17.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.45	16.30	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.15	18.00	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#7	23.96	17.81	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.16	18.01	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.38	17.23	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.46	17.31	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.43	17.28	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.38	17.23	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.01	17.86	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#7	23.86	17.71	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.02	17.87	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.34	17.19	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.29	17.14	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.33	17.18	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.24	17.09	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.11	17.96	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#7	24.23	18.08	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.19	18.04	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.42	17.27	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.56	17.41	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.57	17.42	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.50	17.35	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.35	16.20	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#7	22.48	16.33	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.36	16.21	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	21.51	15.36	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	21.41	15.26	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	21.53	15.38	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.39	15.24	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.36	16.21	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#7	22.42	16.27	38.45	PASS





Band5	3MHz	64QAM	20525	1RB#14	22.39	16.24	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	21.53	15.38	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	21.48	15.33	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	21.39	15.24	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.49	15.34	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.42	16.27	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#7	22.40	16.25	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.41	16.26	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	21.43	15.28	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	21.53	15.38	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	21.43	15.28	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.47	15.32	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.84	17.69	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#7	23.66	17.51	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.58	17.43	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.36	16.21	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.56	16.41	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.64	16.49	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.49	16.34	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.72	17.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#7	23.55	17.40	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.28	17.13	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.39	16.24	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.37	16.22	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.35	16.20	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.30	16.15	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.56	17.41	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#7	23.47	17.32	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.09	16.94	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.40	16.25	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.49	16.34	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.55	16.40	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.60	16.45	38.45	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



Band5	5MHz	QPSK	20425	1RB#0	24.16	18.01	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#13	24.20	18.05	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.12	17.97	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.39	17.24	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.44	17.29	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.37	17.22	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.36	17.21	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.15	18.00	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#13	24.22	18.07	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.19	18.04	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.35	17.20	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.26	17.11	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.39	17.24	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.27	17.12	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.24	18.09	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#13	24.34	18.19	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.94	17.79	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.43	17.28	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.46	17.31	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.50	17.35	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.44	17.29	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.40	16.25	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#13	22.48	16.33	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.34	16.19	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	21.34	15.19	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	21.45	15.30	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	21.47	15.32	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	21.47	15.32	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.43	16.28	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#13	22.34	16.19	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.48	16.33	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	21.47	15.32	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	21.58	15.43	38.45	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



Band5	5MHz	64QAM	20525	12RB#13	21.54	15.39	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.37	15.22	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.37	16.22	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#13	22.45	16.30	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.43	16.28	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	21.50	15.35	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	21.45	15.30	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	21.43	15.28	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.38	15.23	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.95	17.80	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#13	23.66	17.51	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.59	17.44	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.36	16.21	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.51	16.36	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.38	16.23	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.33	16.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.49	17.34	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#13	23.63	17.48	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.39	17.24	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.39	16.24	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.37	16.22	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.33	16.18	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.35	16.20	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.56	17.41	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#13	23.69	17.54	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.31	17.16	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.56	16.41	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.59	16.44	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.52	16.37	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.54	16.39	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.22	18.07	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#25	24.20	18.05	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.55	18.40	38.45	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



Band5	10MHz	QPSK	20450	25RB#0	23.43	17.28	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#13	23.51	17.36	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.55	17.40	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.50	17.35	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.17	18.02	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#25	24.04	17.89	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.97	17.82	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.25	17.10	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#13	23.31	17.16	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.41	17.26	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.27	17.12	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.08	17.93	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#25	24.72	18.57	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.99	17.84	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.48	17.33	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#13	23.49	17.34	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.64	17.49	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.54	17.39	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.36	16.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#25	22.36	16.21	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.44	16.29	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	21.56	15.41	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#13	21.52	15.37	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	21.44	15.29	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.49	15.34	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.46	16.31	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#25	22.37	16.22	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.38	16.23	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	21.55	15.40	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#13	21.46	15.31	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	21.49	15.34	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.36	15.21	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.37	16.22	38.45	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



Band5	10MHz	64QAM	20600	1RB#25	22.48	16.33	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.38	16.23	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	21.44	15.29	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#13	21.52	15.37	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	21.43	15.28	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.54	15.39	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.90	17.75	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#25	23.75	17.60	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.98	17.83	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.52	16.37	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#13	22.59	16.44	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.51	16.36	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.53	16.38	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.34	17.19	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#25	23.41	17.26	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.45	17.30	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.42	16.27	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#13	22.34	16.19	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.18	16.03	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.28	16.13	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.53	17.38	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#25	24.12	17.97	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.79	17.64	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.64	16.49	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#13	22.51	16.36	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.71	16.56	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.52	16.37	38.45	PASS

Remark:

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

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

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



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

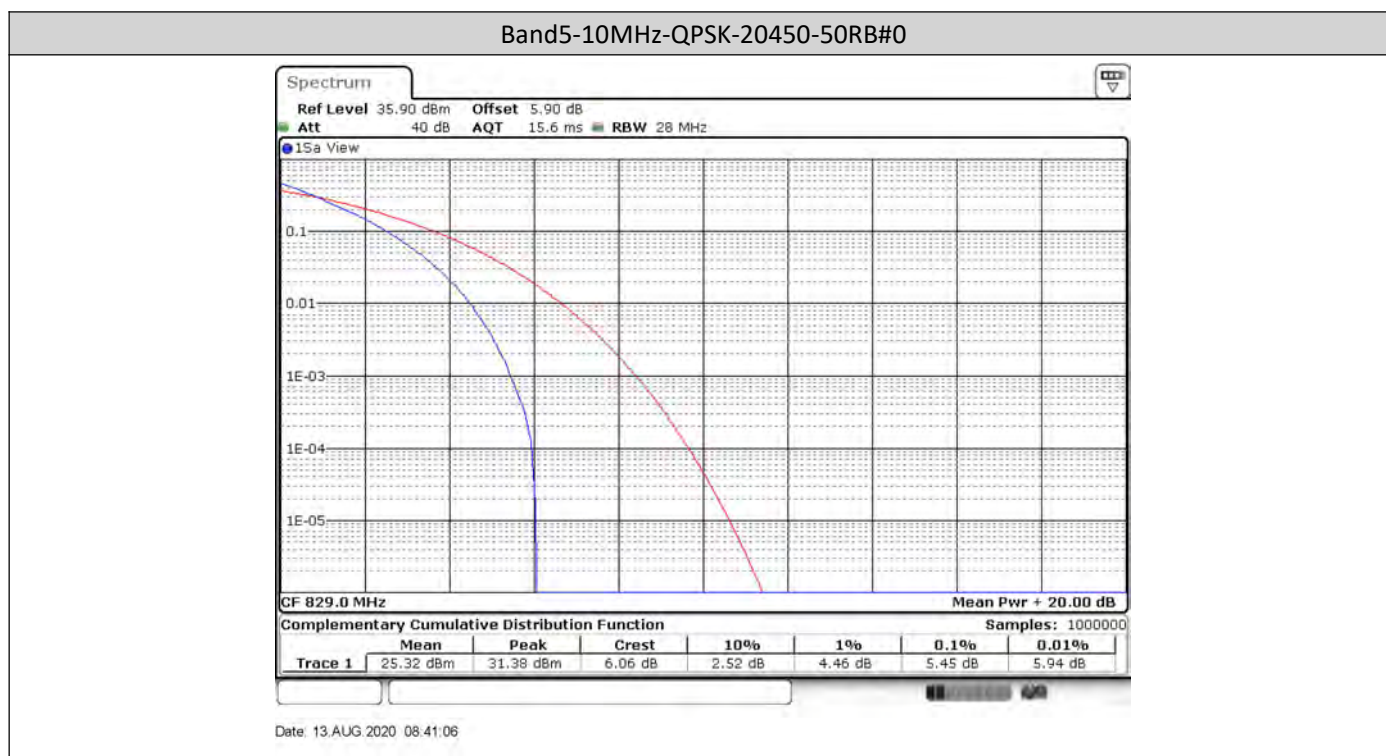


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

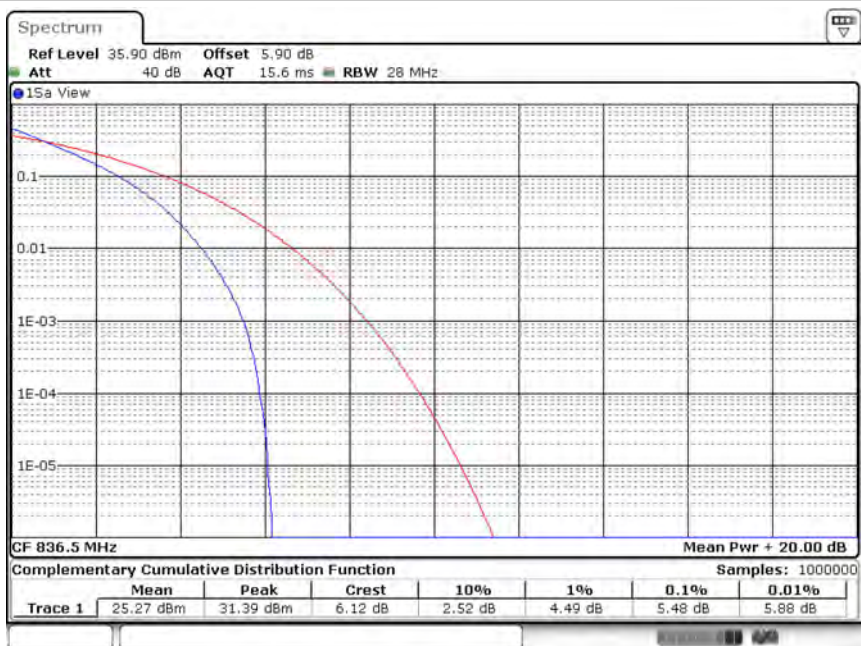
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.45	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.48	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.93	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.46	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.81	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.52	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.17	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.71	13	PASS

2.2. Test Plots



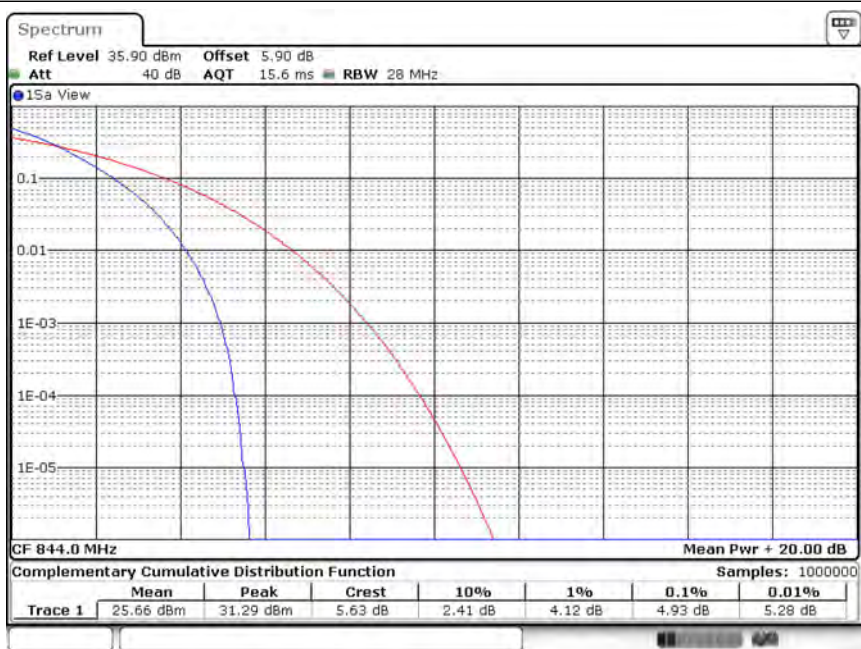


Band5-10MHz-QPSK-20525-50RB#0



Date: 13.AUG.2020 08:41:22

Band5-10MHz-QPSK-20600-50RB#0



Date: 13.AUG.2020 08:41:38

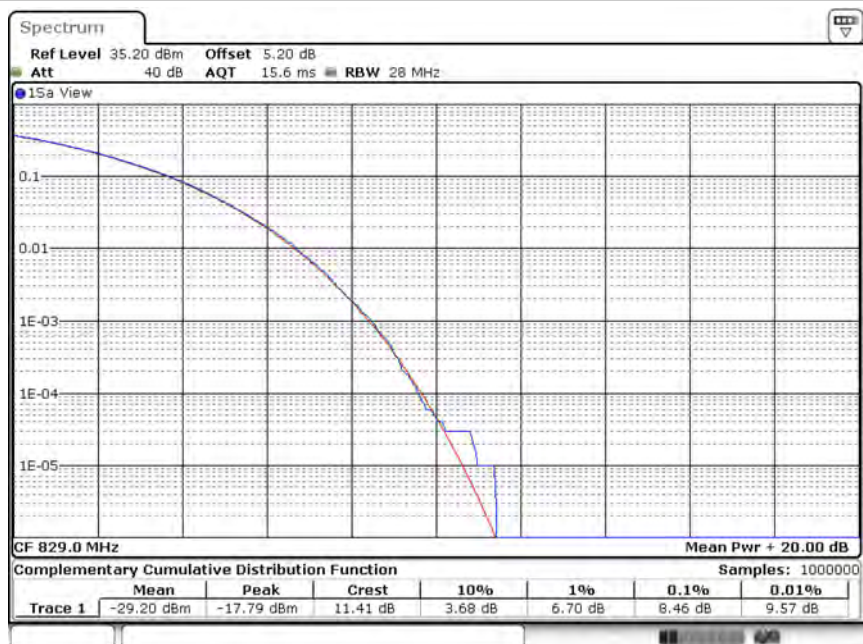


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

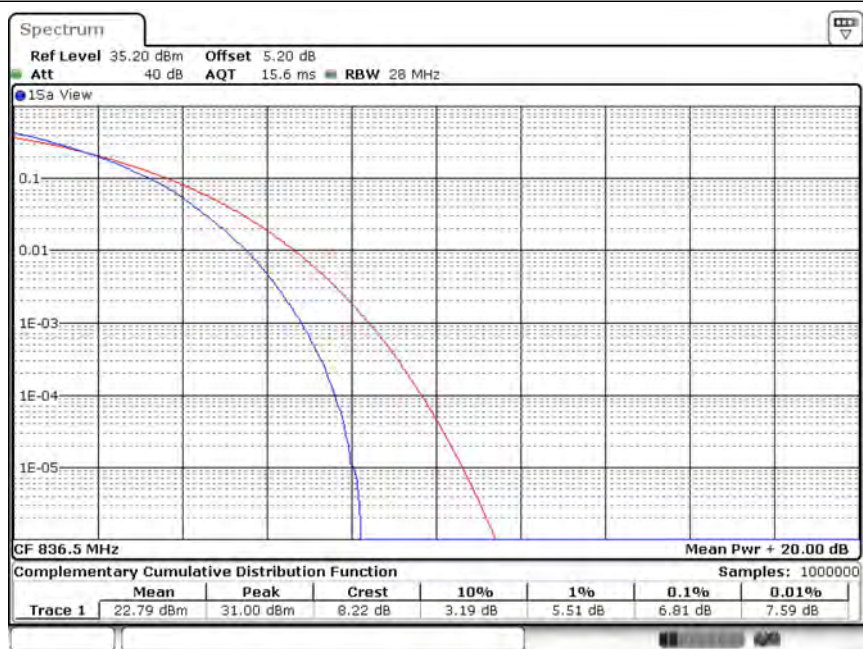


Band5-10MHz-64QAM-20450-50RB#0



Date: 19.AUG 2020 08:31:55

Band5-10MHz-64QAM-20525-50RB#0



Date: 19.AUG 2020 08:36:35



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

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



Band5-10MHz-64QAM-20600-50RB#0



Date: 19.AUG 2020 08:36:46

Band5-10MHz-16QAM-20450-50RB#0



Date: 13.AUG 2020 08:41:14





Band5-10MHz-16QAM-20525-50RB#0



Date: 13.AUG.2020 08:41:30

Band5-10MHz-16QAM-20600-50RB#0



Date: 13.AUG.2020 08:41:46



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

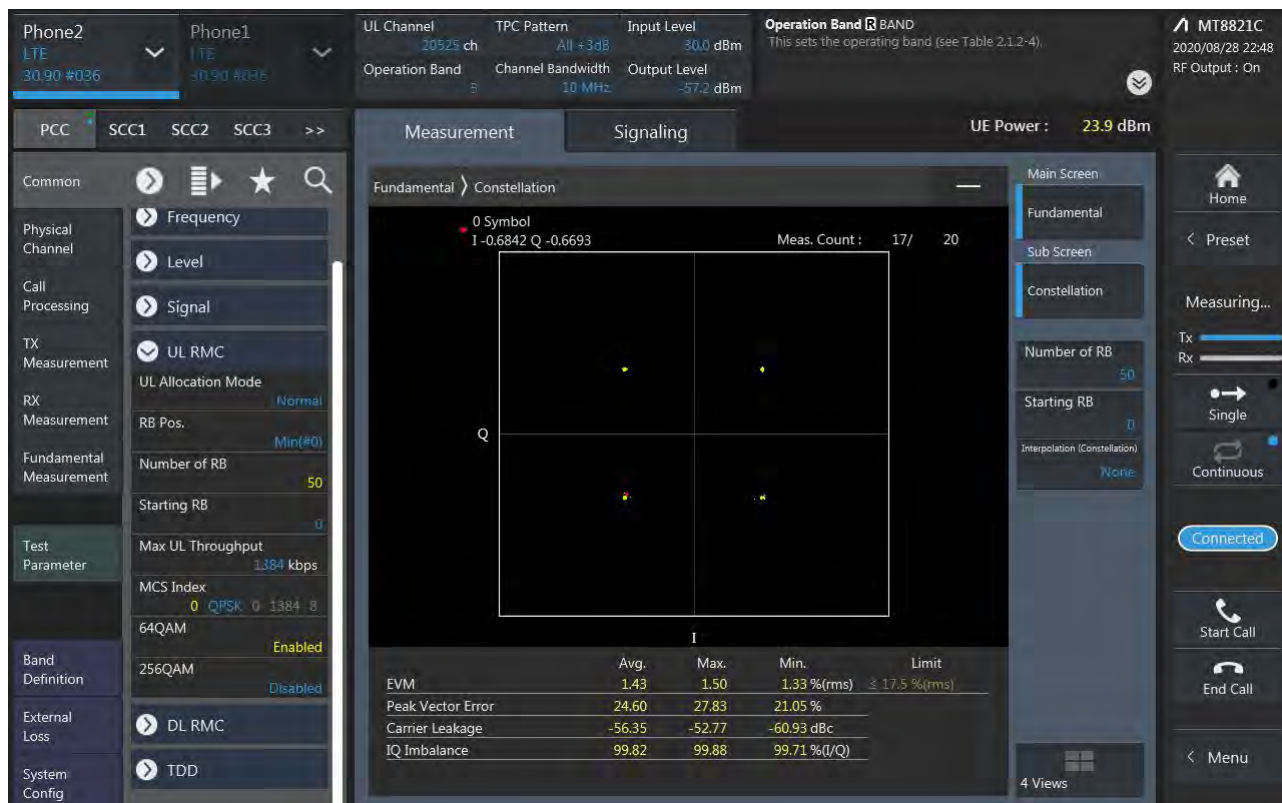
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

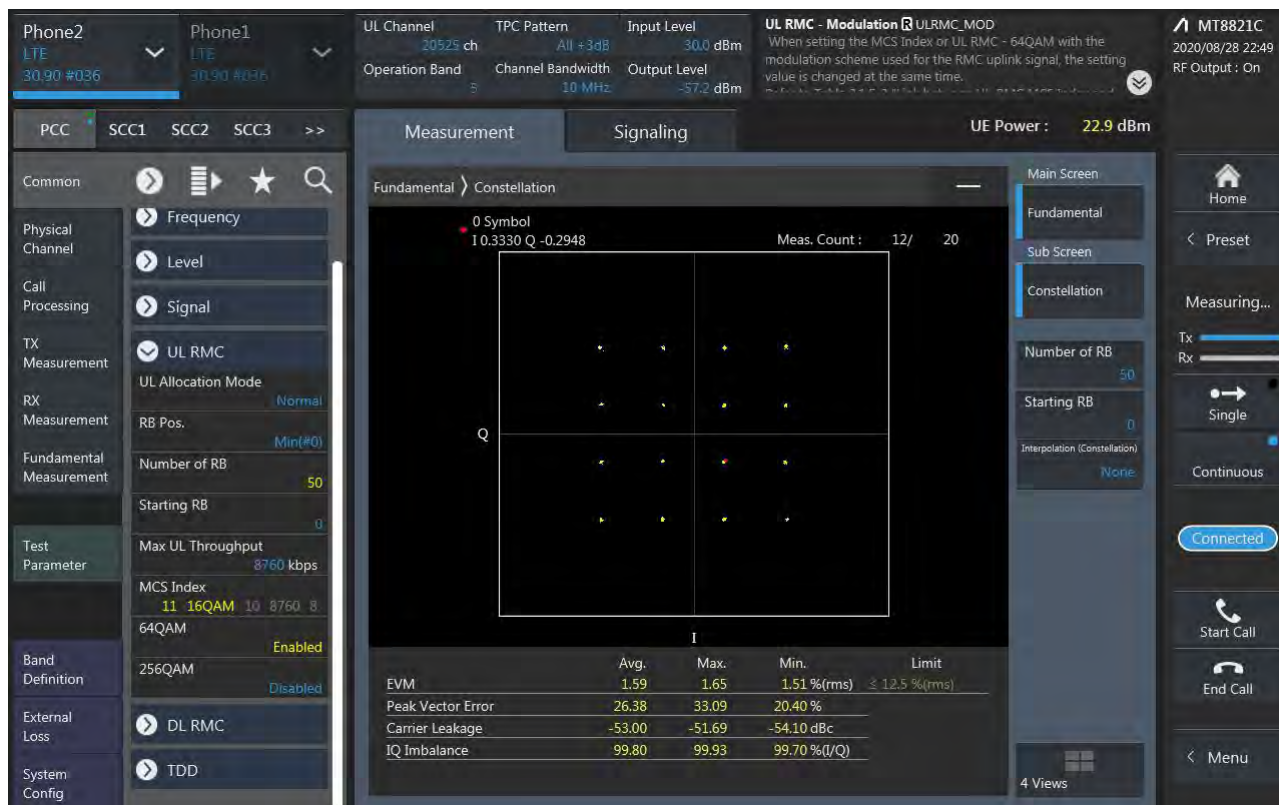
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

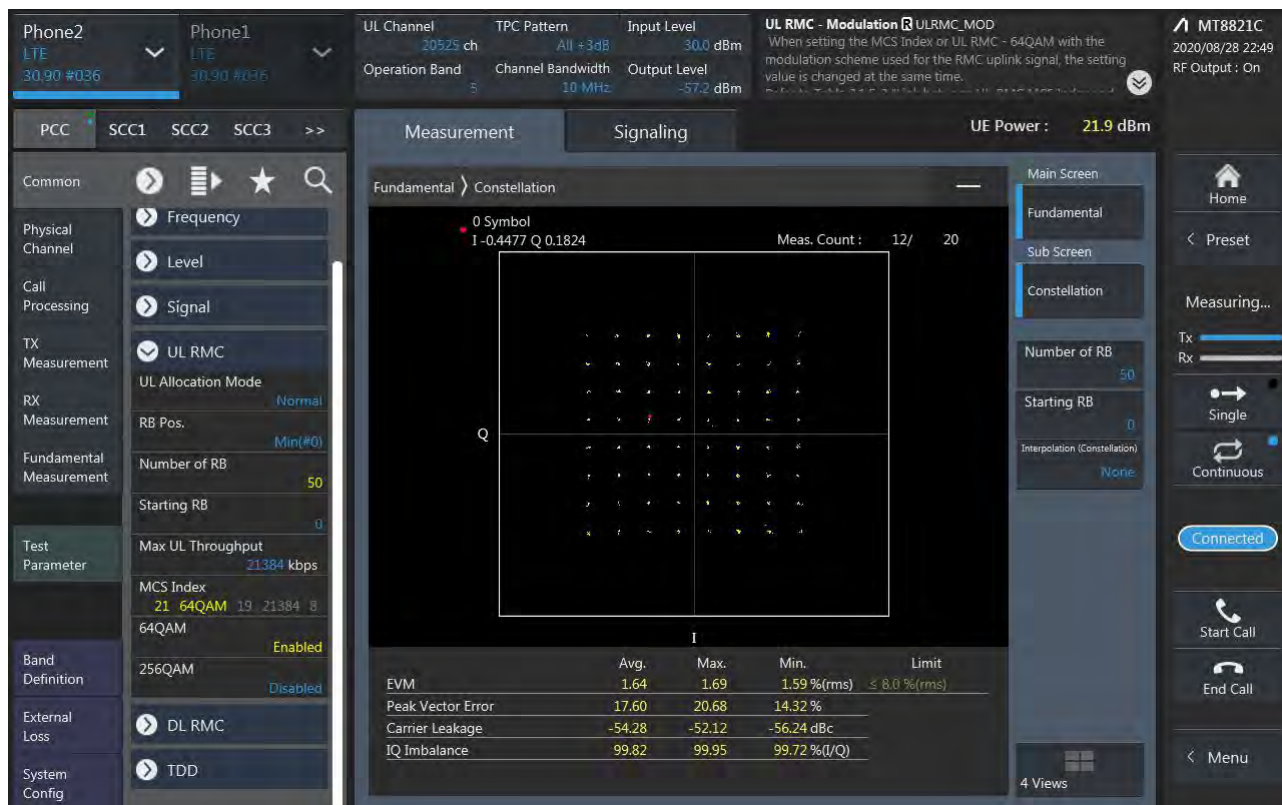
3.2.1. Test Channel = MCH





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
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.299	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.302	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.299	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.293	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.094	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.976	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	2.994	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.685	2.982	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.982	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.691	2.970	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.958	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.930	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.486	4.960	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.910	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.900	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.900	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.950	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.660	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.

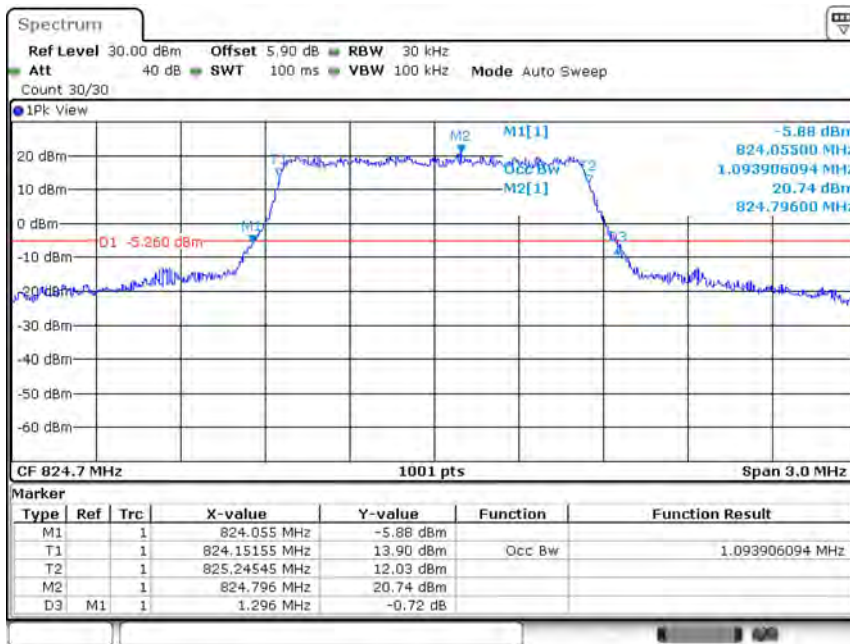
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band5	10MHz	64QAM	20525	50RB#0	8.911	9.700	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.720	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.891	9.700	PASS

4.2. Test Plots

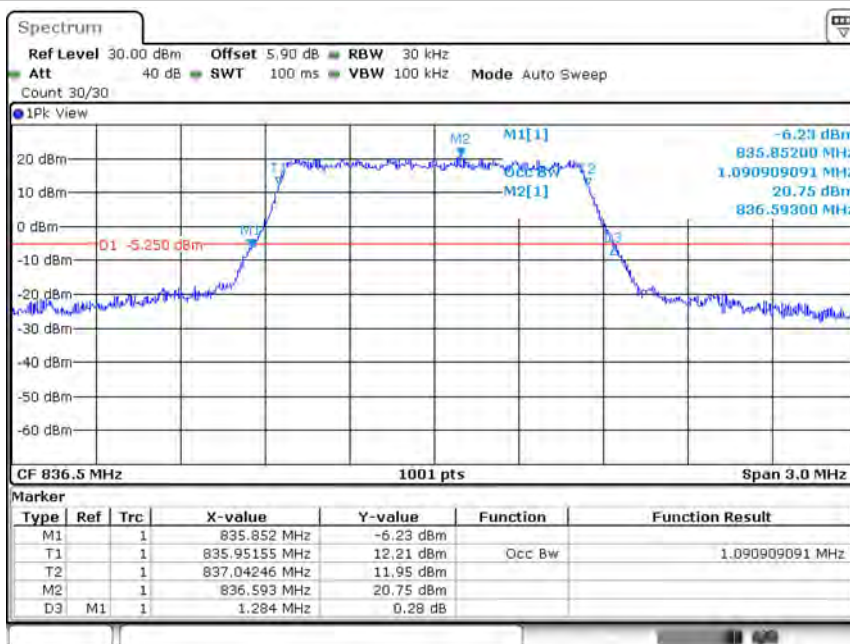
Band5-1.4MHz-QPSK-20407-6RB#0-1.094



Date: 13 AUG 2020 08:18:20

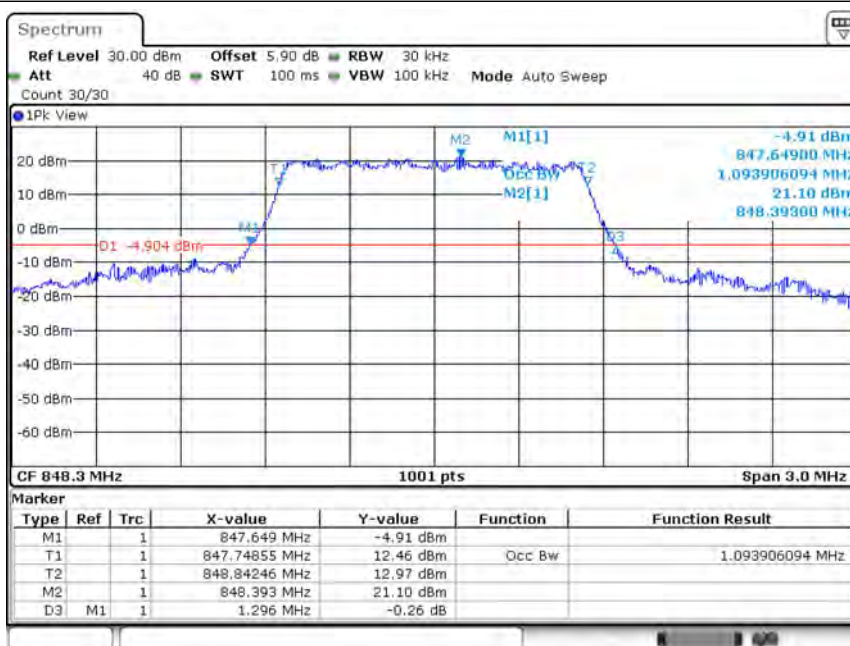


Band5-1.4MHz-QPSK-20525-6RB#0-1.091



Date: 13.AUG.2020 08:18:39

Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 13.AUG.2020 08:18:58

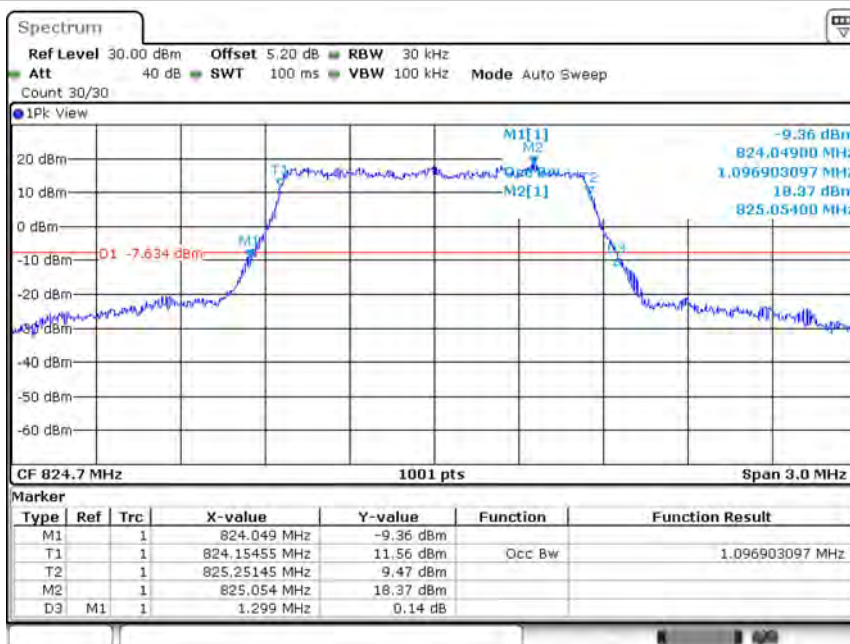


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

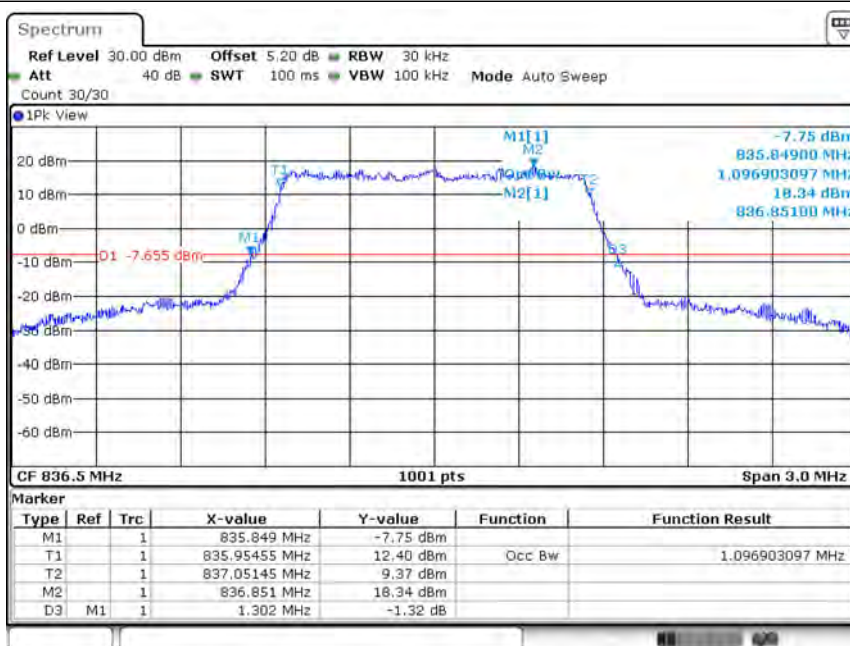


Band5-1.4MHz-64QAM-20407-6RB#0-1.097



Date: 18.AUG.2020 21:29:47

Band5-1.4MHz-64QAM-20525-6RB#0-1.097



Date: 18.AUG.2020 21:30:01



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

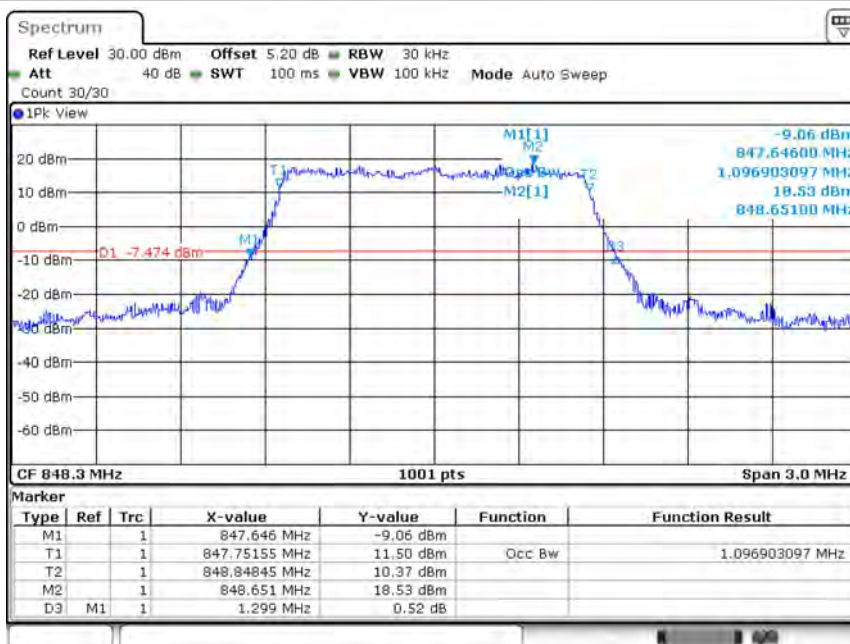
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

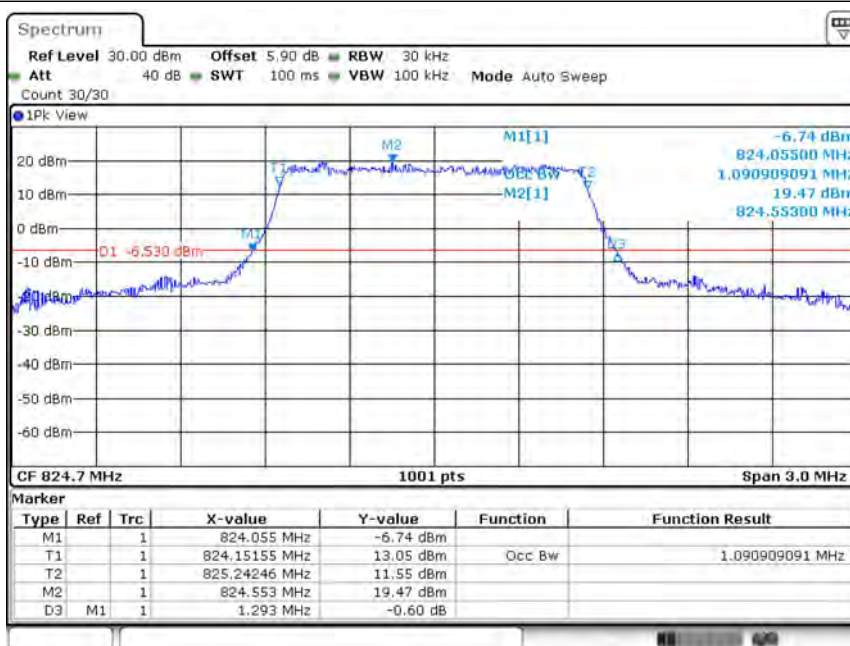


Band5-1.4MHz-64QAM-20643-6RB#0-1.097



Date: 18 AUG 2020 21:30:14

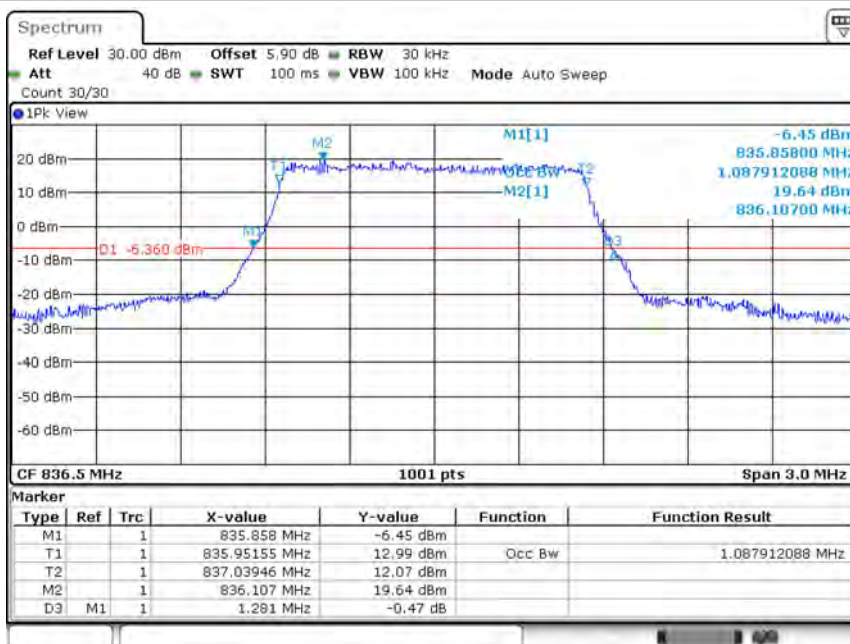
Band5-1.4MHz-16QAM-20407-6RB#0-1.091



Date: 13 AUG 2020 08:18:29

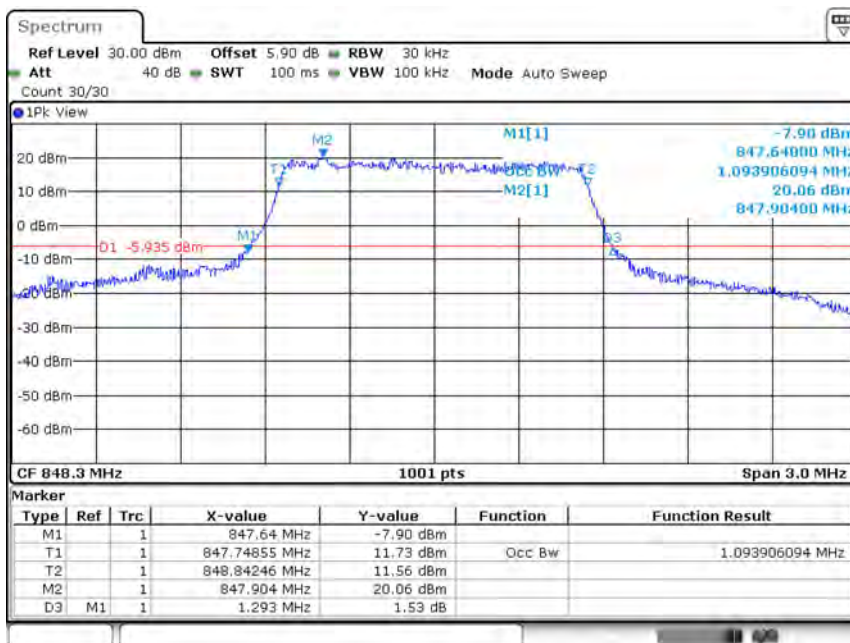


Band5-1.4MHz-16QAM-20525-6RB#0-1.088



Date: 13.AUG.2020 08:18:49

Band5-1.4MHz-16QAM-20643-6RB#0-1.094



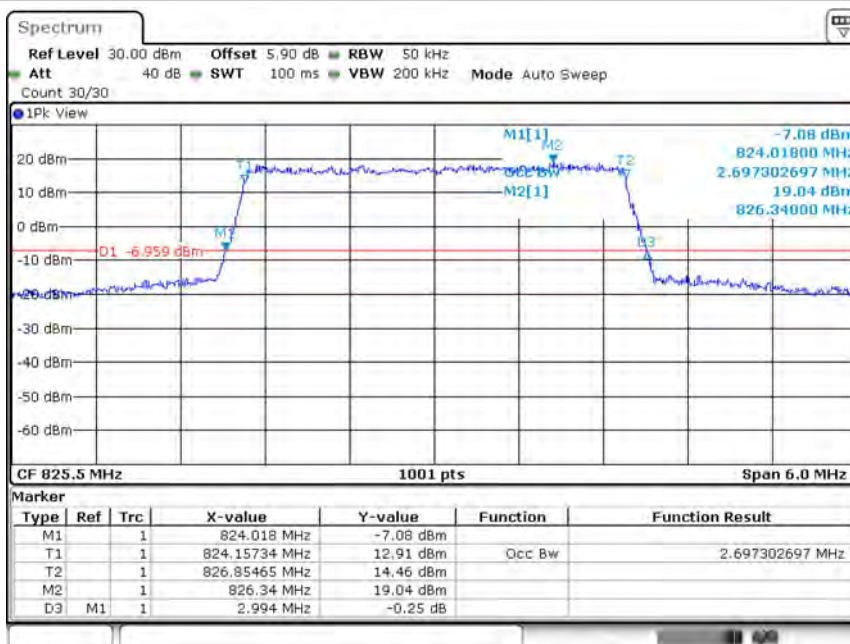
Date: 13.AUG.2020 08:19:08



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.

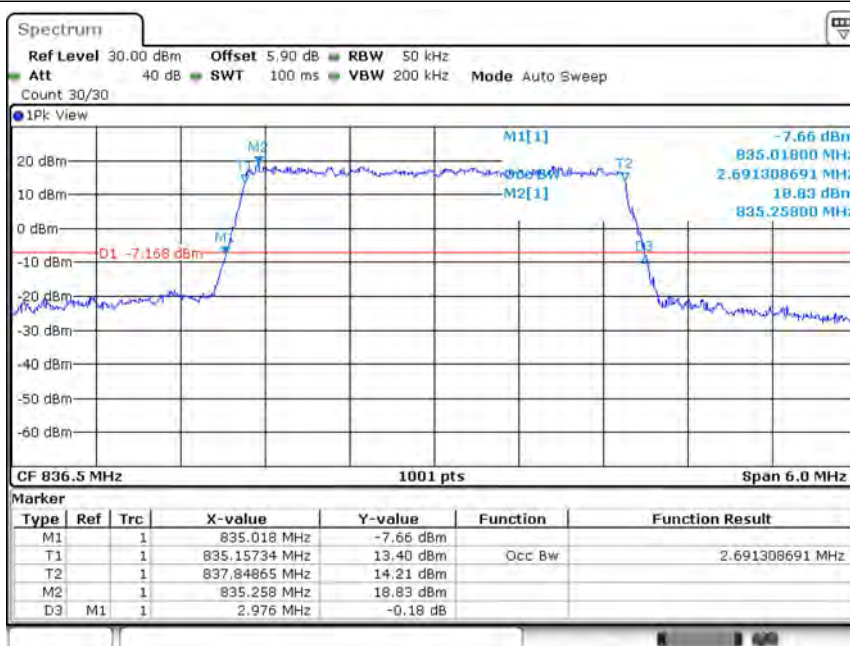
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 13.AUG.2020 08:19:20

Band5-3MHz-QPSK-20525-15RB#0-2.691



Date: 13.AUG.2020 08:19:39

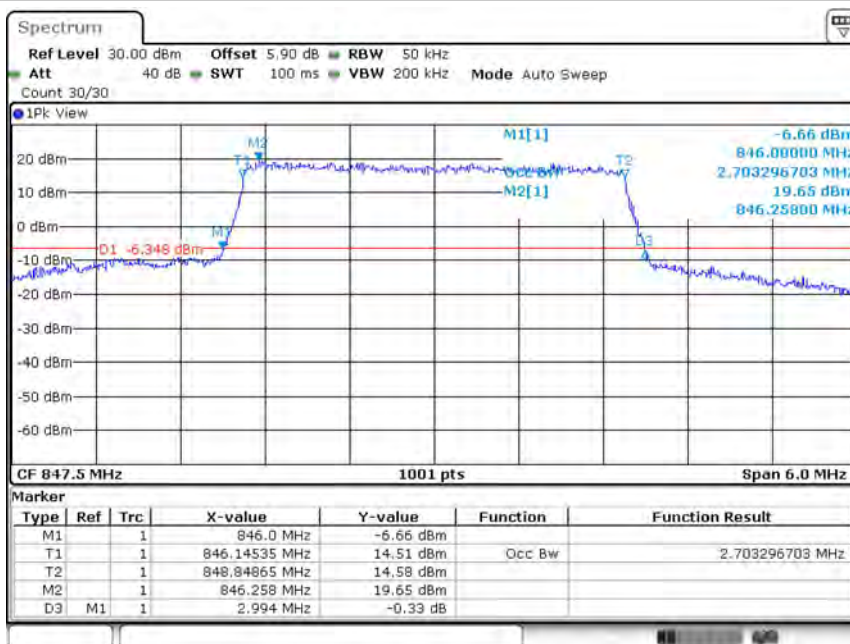


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

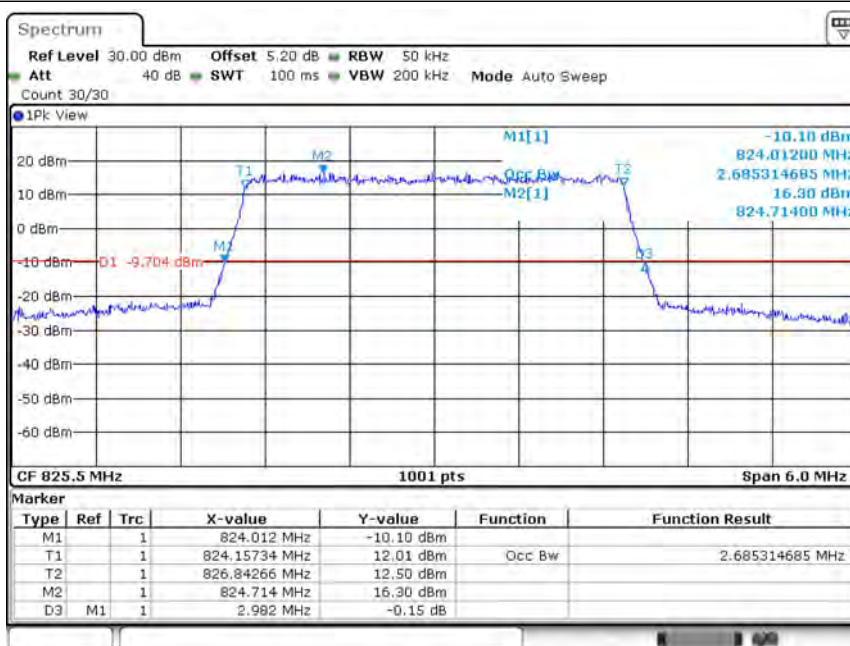


Band5-3MHz-QPSK-20635-15RB#0-2.703



Date: 13.AUG.2020 08:19:58

Band5-3MHz-64QAM-20415-15RB#0-2.685



Date: 18.AUG.2020 21:31:05



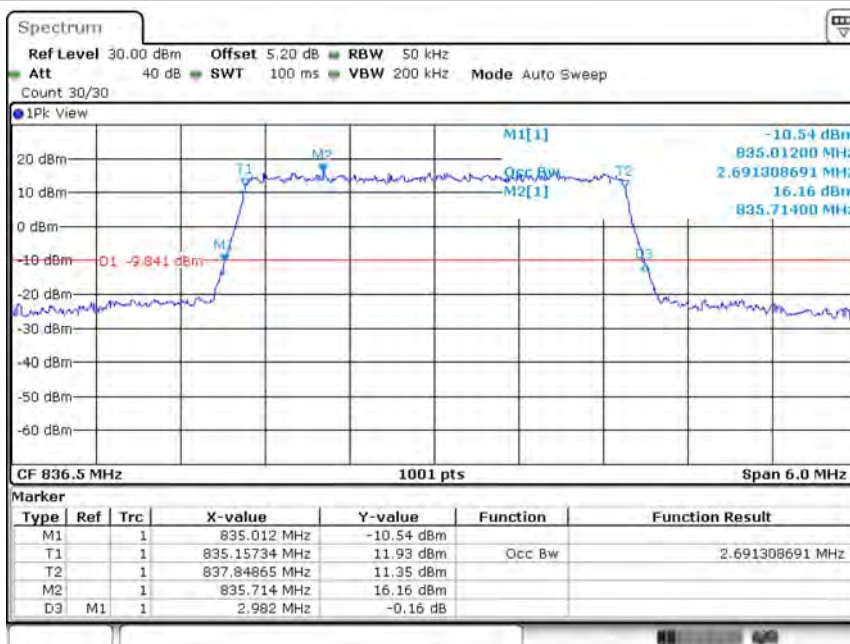
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

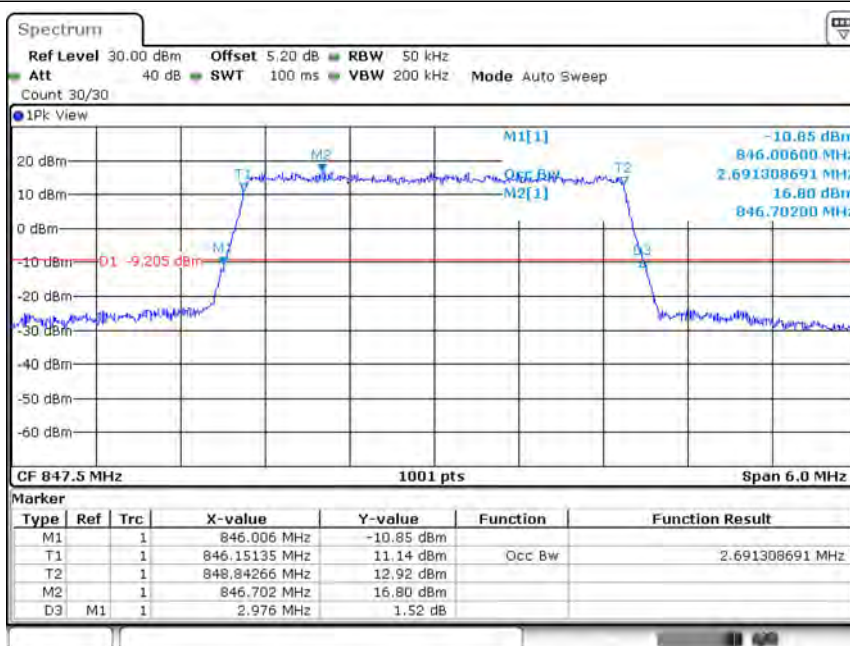


Band5-3MHz-64QAM-20525-15RB#0-2.691



Date: 18.AUG.2020 21:31:18

Band5-3MHz-64QAM-20635-15RB#0-2.691



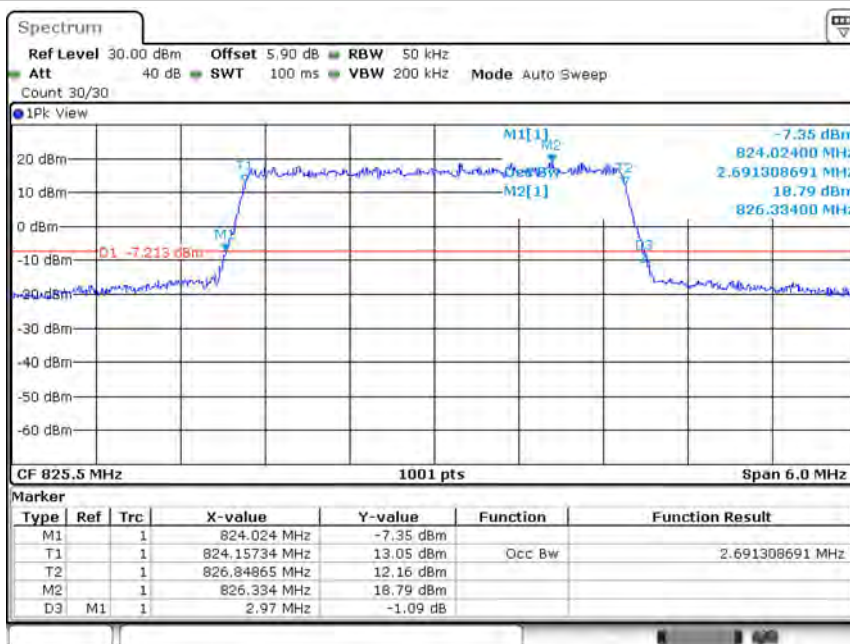
Date: 18.AUG.2020 21:31:31



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

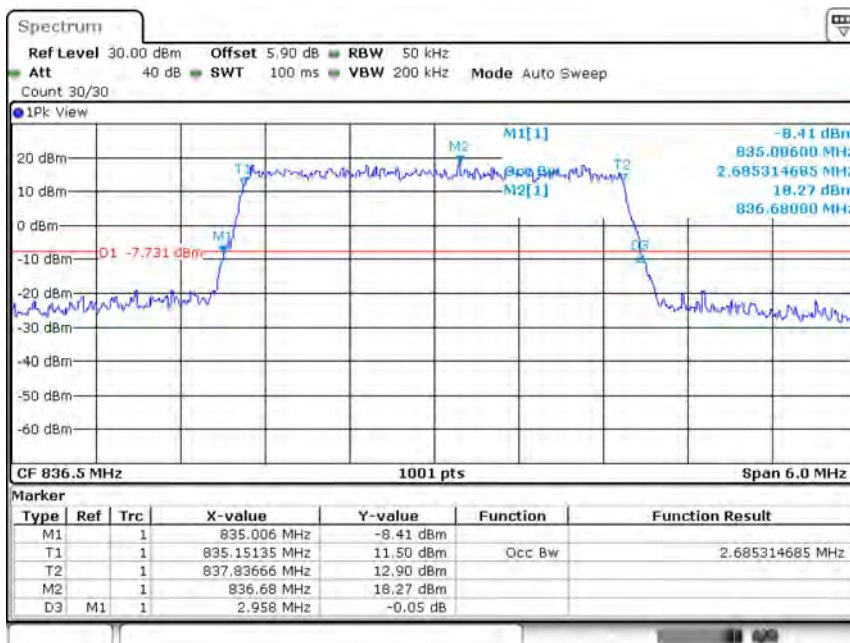
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-3MHz-16QAM-20415-15RB#0-2.691



Date: 13.AUG.2020 08:19:29

Band5-3MHz-16QAM-20525-15RB#0-2.685

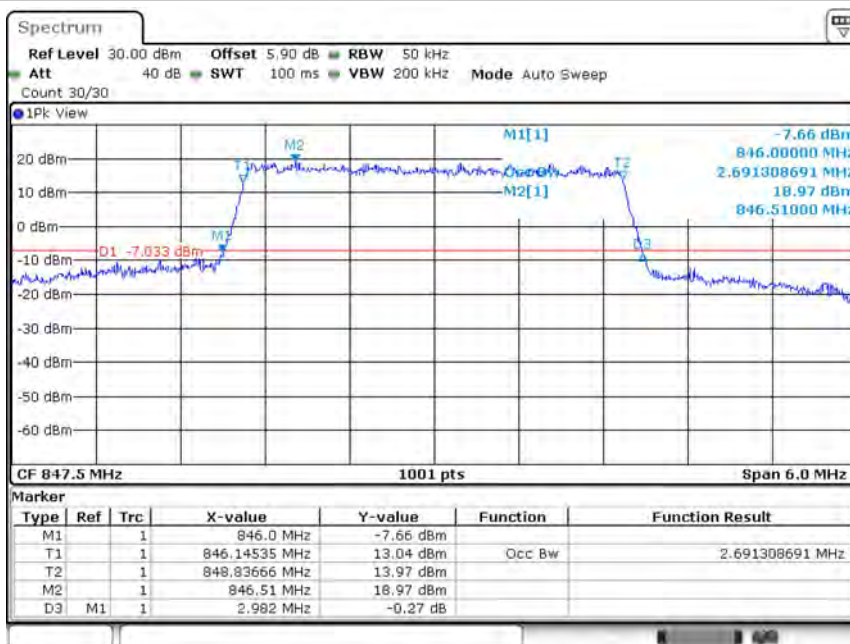


Date: 13.AUG.2020 08:19:49



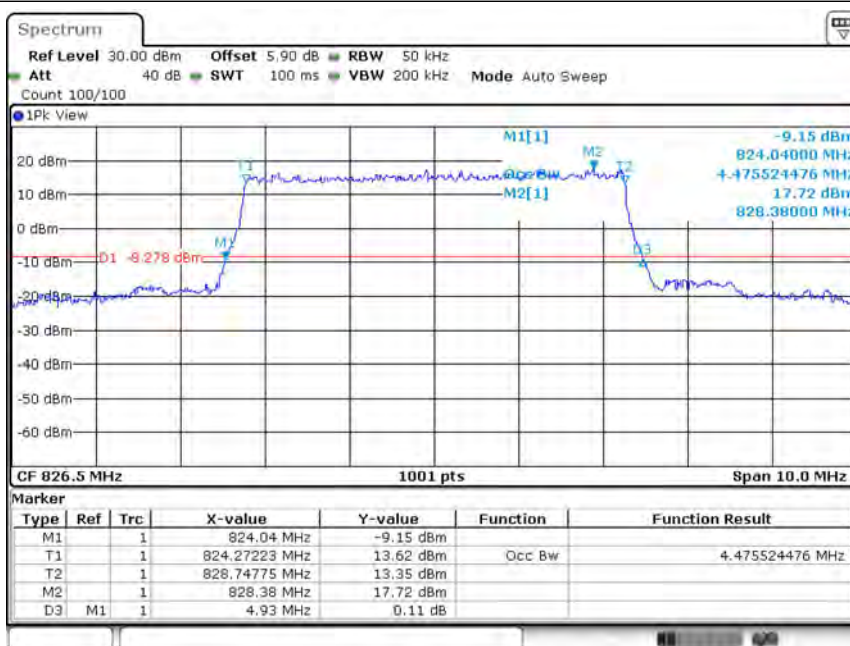


Band5-3MHz-16QAM-20635-15RB#0-2.691



Date: 13 AUG 2020 08:20:08

Band5-5MHz-QPSK-20425-25RB#0-4.476



Date: 13 AUG 2020 08:20:26



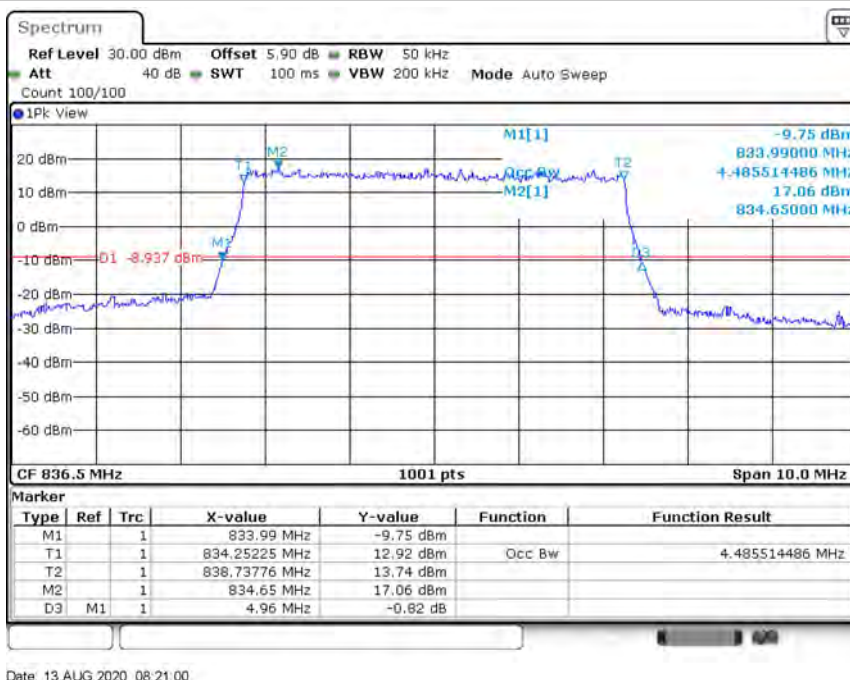
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

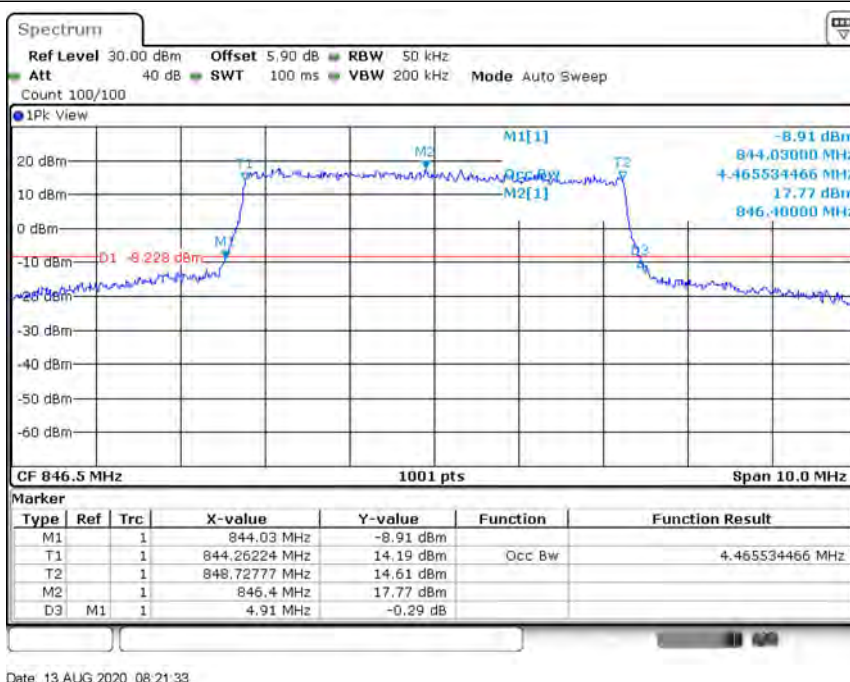
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



Band5-5MHz-QPSK-20525-25RB#0-4.486

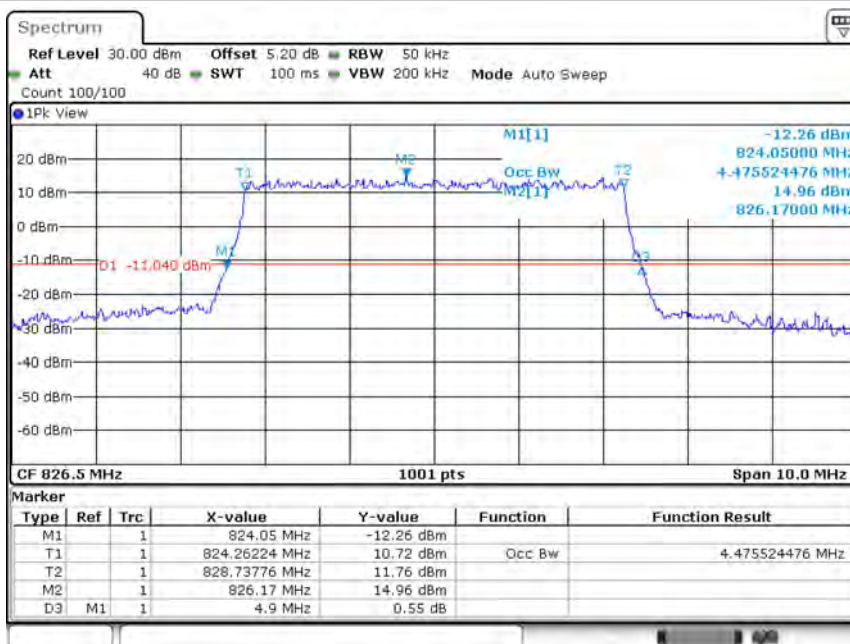


Band5-5MHz-QPSK-20625-25RB#0-4.466



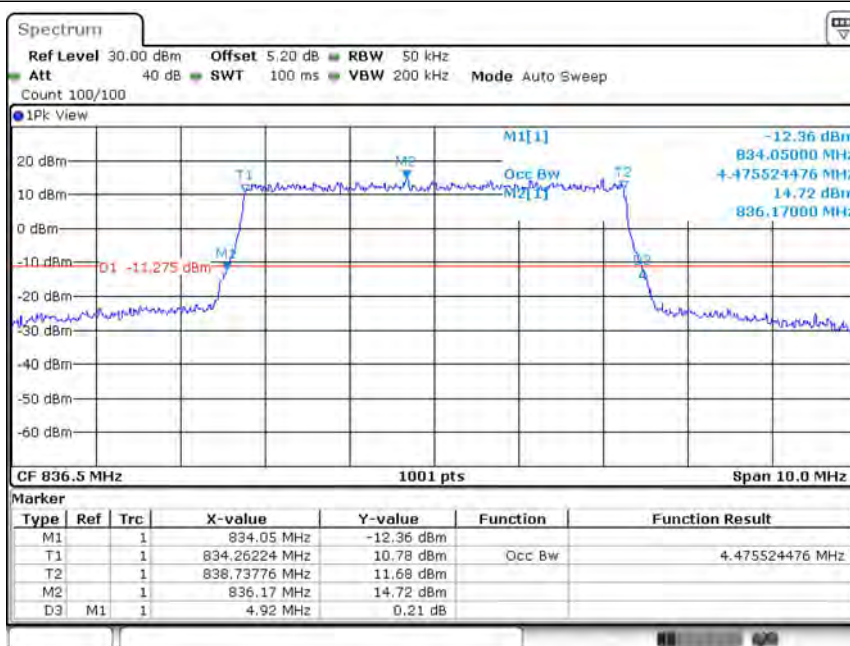


Band5-5MHz-64QAM-20425-25RB#0-4.476



Date: 18.AUG.2020 21:31:58

Band5-5MHz-64QAM-20525-25RB#0-4.476



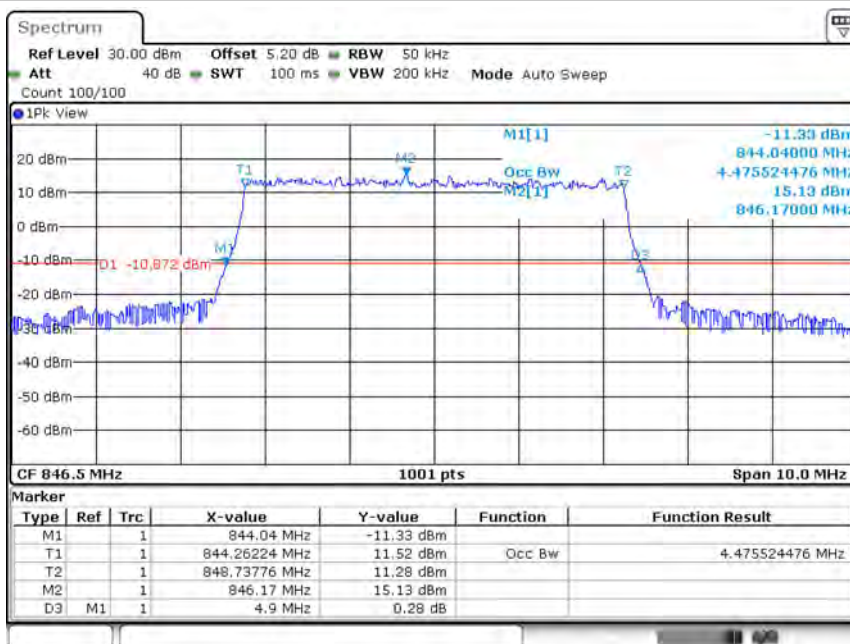
Date: 18.AUG.2020 21:32:18



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

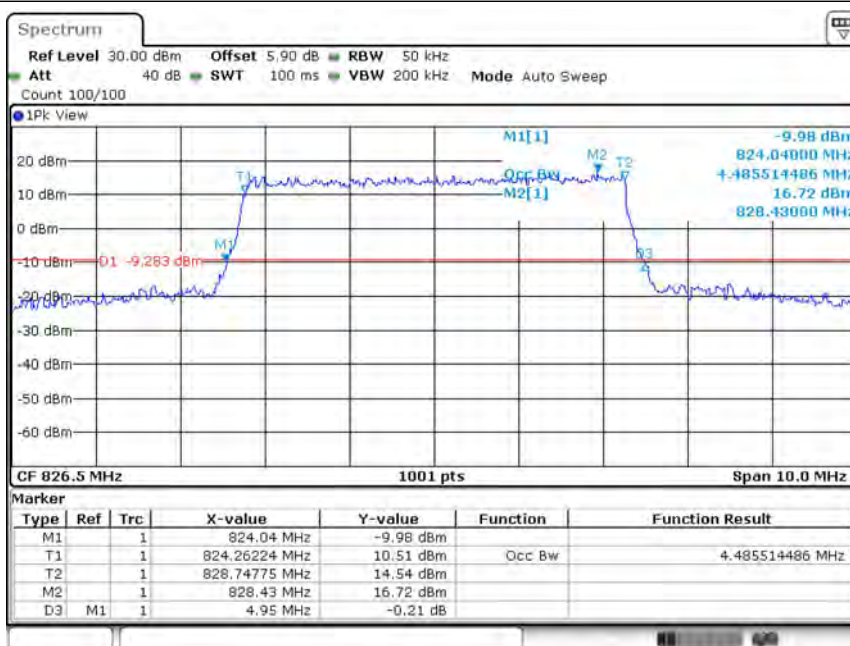
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-5MHz-64QAM-20625-25RB#0-4.476



Date: 18 AUG 2020 21:32:39

Band5-5MHz-16QAM-20425-25RB#0-4.486

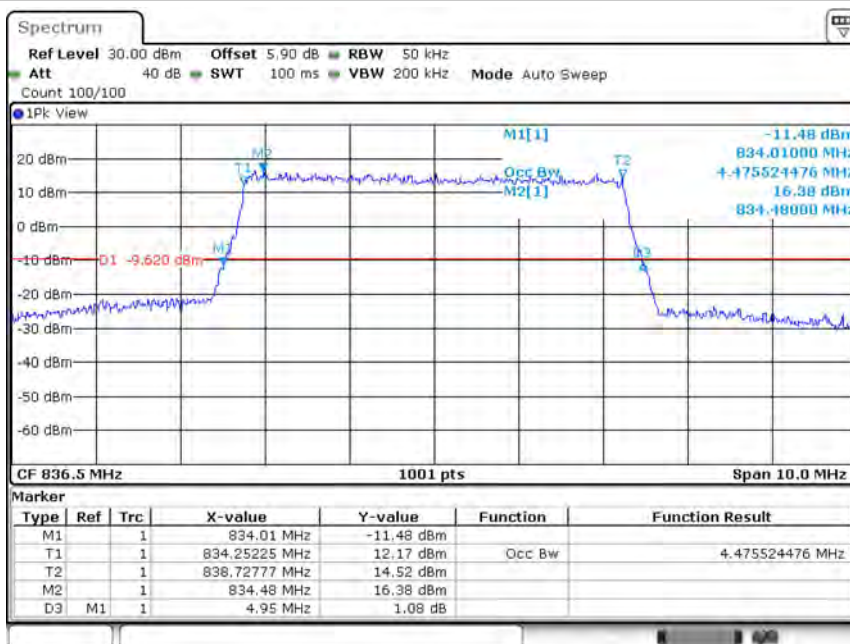


Date: 13 AUG 2020 08:20:43



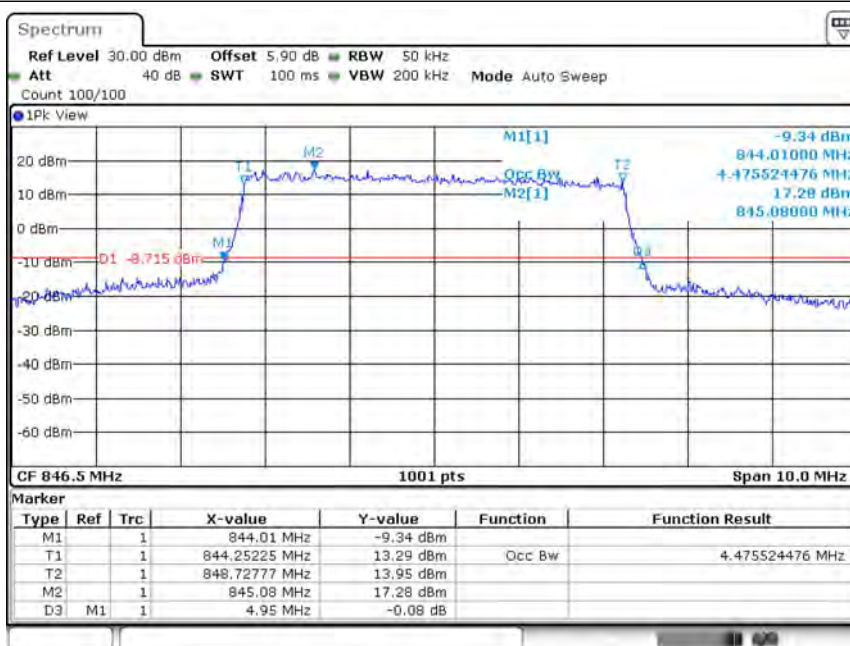


Band5-5MHz-16QAM-20525-25RB#0-4.476



Date: 13.AUG.2020 08:21:18

Band5-5MHz-16QAM-20625-25RB#0-4.476



Date: 13.AUG.2020 08:21:50

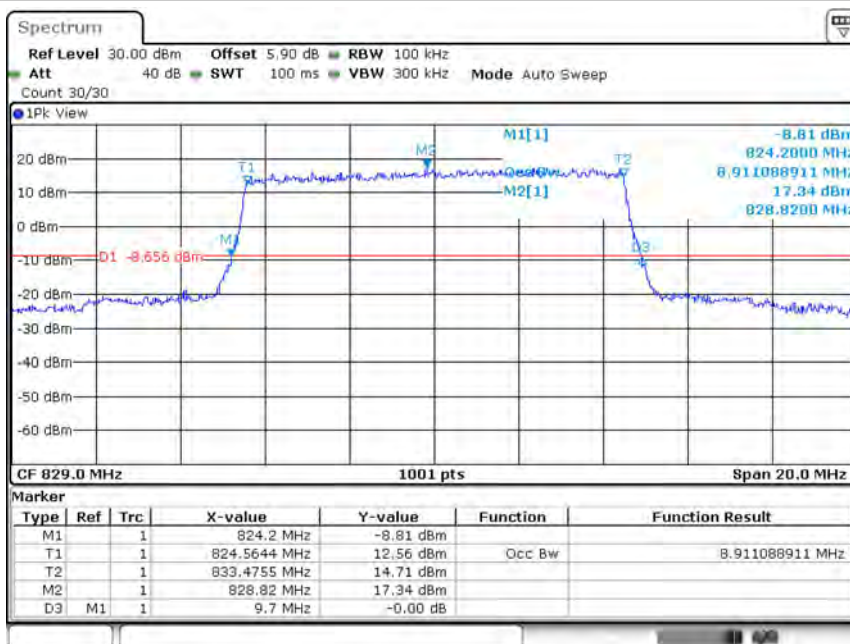


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

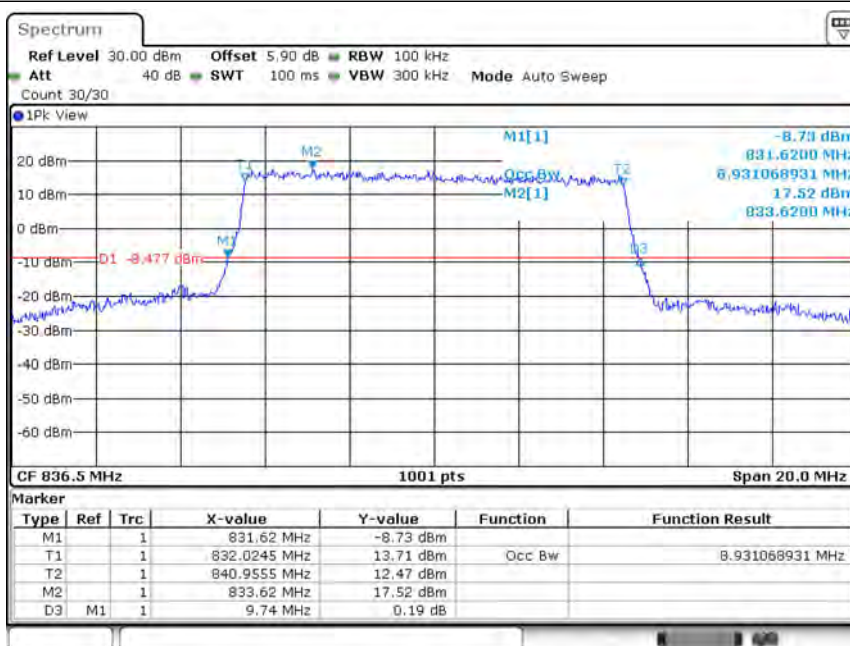


Band5-10MHz-QPSK-20450-50RB#0-8.911



Date: 13.AUG.2020 08:22:01

Band5-10MHz-QPSK-20525-50RB#0-8.931



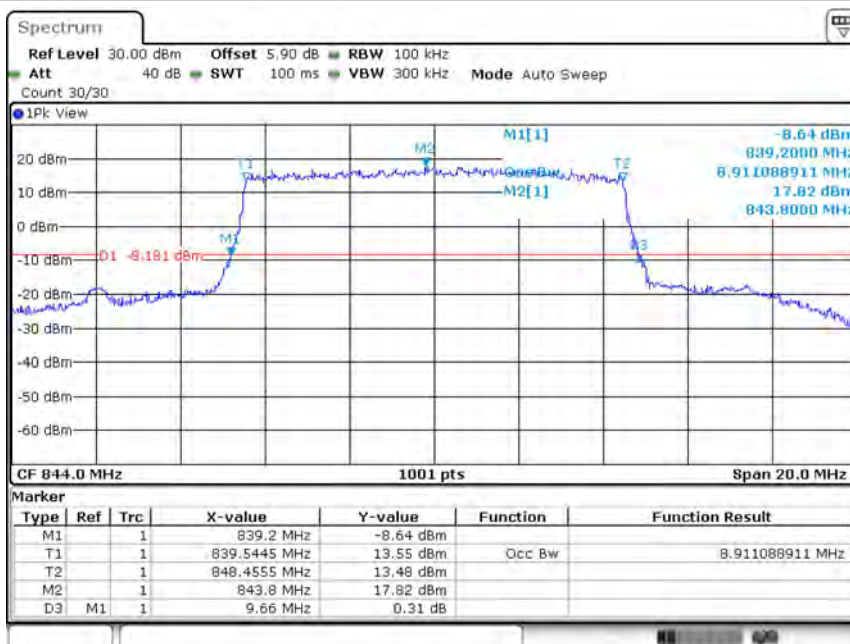
Date: 13.AUG.2020 08:22:21



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

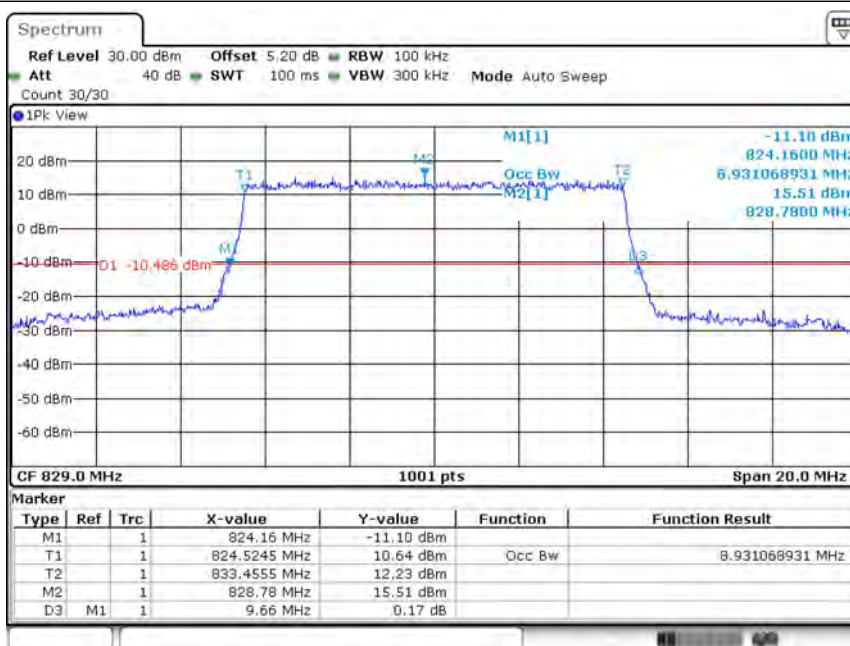
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 13.AUG.2020 08:22:40

Band5-10MHz-64QAM-20450-50RB#0-8.931

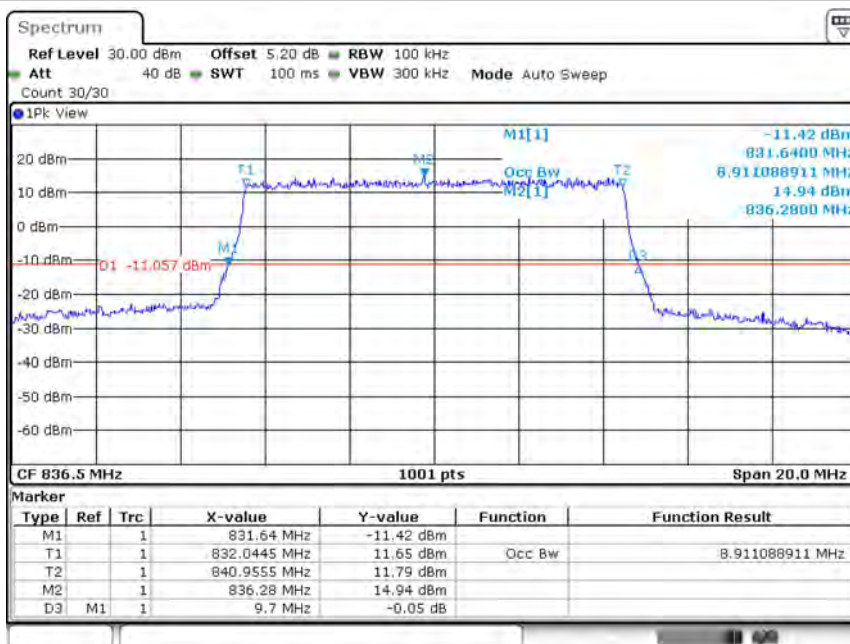


Date: 18.AUG.2020 21:33:57



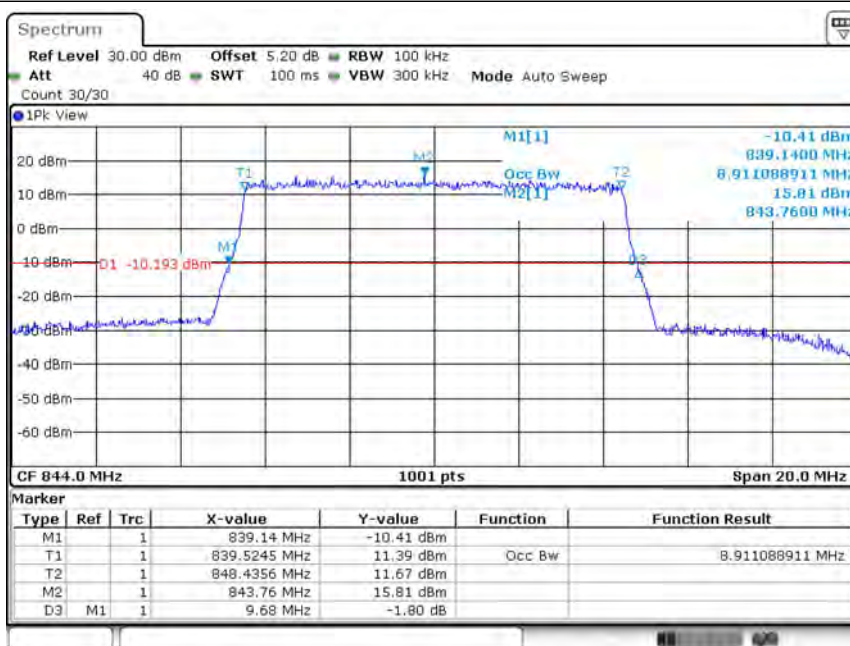


Band5-10MHz-64QAM-20525-50RB#0-8.911



Date: 18.AUG.2020 21:34:10

Band5-10MHz-64QAM-20600-50RB#0-8.911



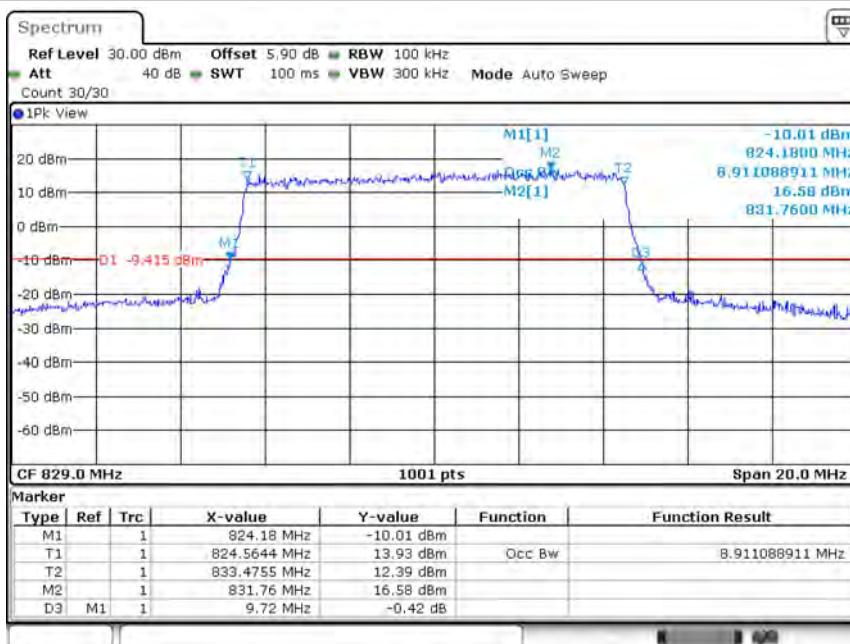
Date: 18.AUG.2020 21:34:23



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.

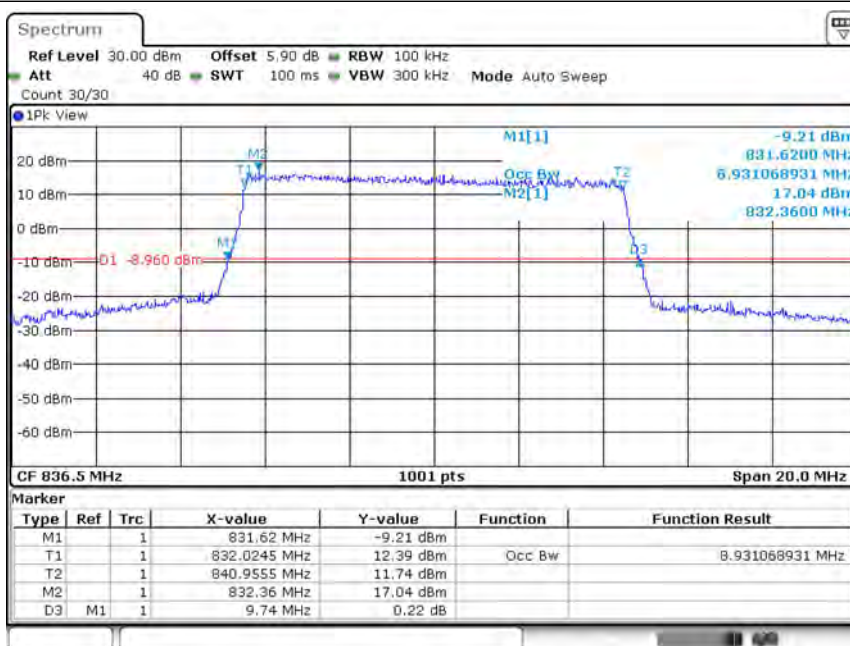
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-16QAM-20450-50RB#0-8.911



Date: 13.AUG.2020 08:22:11

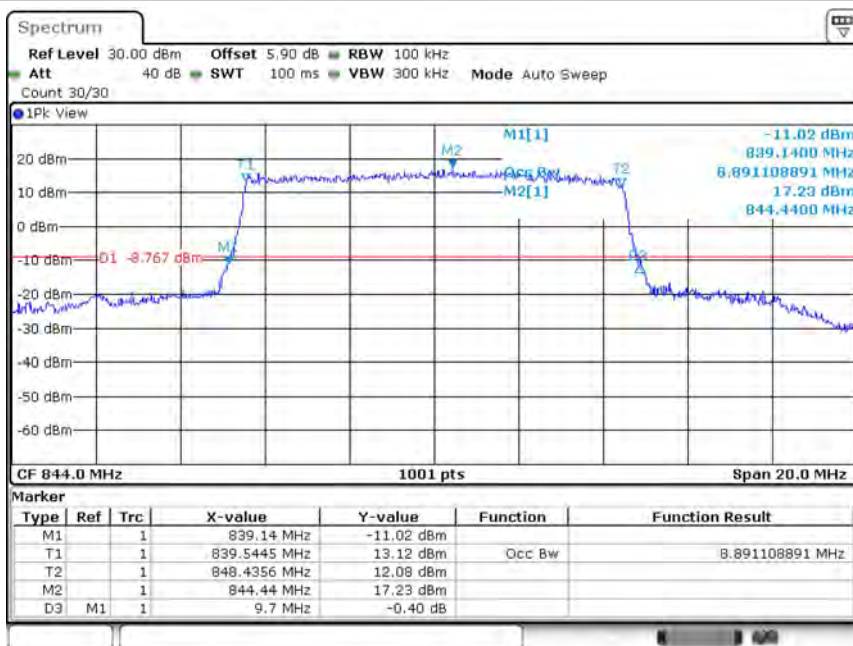
Band5-10MHz-16QAM-20525-50RB#0-8.931



Date: 13.AUG.2020 08:22:30



Band5-10MHz-16QAM-20600-50RB#0-8.891



Date 13.AUG.2020 08:22:50



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

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

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

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



5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-18.12	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-21.78	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-17.67	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-21.91	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	-22.39	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	-26.94	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	-20.89	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	-28.81	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-19.06	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-22.51	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-18.42	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-23.94	PASS
Band5	3MHz	QPSK	20415	1RB#0	-17.80	PASS
Band5	3MHz	QPSK	20415	15RB#0	-24.27	PASS
Band5	3MHz	QPSK	20635	1RB#14	-17.27	PASS
Band5	3MHz	QPSK	20635	15RB#0	-21.98	PASS
Band5	3MHz	64QAM	20415	1RB#0	-22.05	PASS
Band5	3MHz	64QAM	20415	15RB#0	-28.39	PASS
Band5	3MHz	64QAM	20635	1RB#14	-20.28	PASS
Band5	3MHz	64QAM	20635	15RB#0	-29.13	PASS
Band5	3MHz	16QAM	20415	1RB#0	-18.18	PASS
Band5	3MHz	16QAM	20415	15RB#0	-24.79	PASS
Band5	3MHz	16QAM	20635	1RB#14	-18.19	PASS
Band5	3MHz	16QAM	20635	15RB#0	-24.57	PASS
Band5	5MHz	QPSK	20425	1RB#0	-19.84	PASS
Band5	5MHz	QPSK	20425	25RB#0	-25.13	PASS
Band5	5MHz	QPSK	20625	1RB#24	-20.19	PASS
Band5	5MHz	QPSK	20625	25RB#0	-23.32	PASS
Band5	5MHz	64QAM	20425	1RB#0	-21.82	PASS
Band5	5MHz	64QAM	20425	25RB#0	-28.11	PASS
Band5	5MHz	64QAM	20625	1RB#24	-20.97	PASS
Band5	5MHz	64QAM	20625	25RB#0	-30.25	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.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



Band5	5MHz	16QAM	20425	1RB#0	-19.82	PASS
Band5	5MHz	16QAM	20425	25RB#0	-25.71	PASS
Band5	5MHz	16QAM	20625	1RB#24	-20.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	-25.11	PASS
Band5	10MHz	QPSK	20450	1RB#0	-30.10	PASS
Band5	10MHz	QPSK	20450	50RB#0	-28.56	PASS
Band5	10MHz	QPSK	20600	1RB#49	-30.21	PASS
Band5	10MHz	QPSK	20600	50RB#0	-26.26	PASS
Band5	10MHz	64QAM	20450	1RB#0	-31.48	PASS
Band5	10MHz	64QAM	20450	50RB#0	-30.31	PASS
Band5	10MHz	64QAM	20600	1RB#49	-31.38	PASS
Band5	10MHz	64QAM	20600	50RB#0	-34.21	PASS
Band5	10MHz	16QAM	20450	1RB#0	-29.66	PASS
Band5	10MHz	16QAM	20450	50RB#0	-29.38	PASS
Band5	10MHz	16QAM	20600	1RB#49	-31.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	-27.75	PASS

5.2. Test Plots





Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20643-1RB#5





Band5-1.4MHz-QPSK-20643-6RB#0



Date: 13.AUG.2020 08:25:02

Band5-1.4MHz-64QAM-20407-1RB#0



Date: 18.AUG.2020 21:37:24



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

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

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



Band5-1.4MHz-64QAM-20407-6RB#0



Band5-1.4MHz-64QAM-20643-1RB#5





Band5-1.4MHz-64QAM-20643-6RB#0



Date: 18 AUG 2020 21:38:32

Band5-1.4MHz-16QAM-20407-1RB#0



Date: 13 AUG 2020 08:23:33



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

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



Band5-1.4MHz-16QAM-20407-6RB#0



Date: 13.AUG.2020 08:24:08

Band5-1.4MHz-16QAM-20643-1RB#5



Date: 13.AUG.2020 08:24:44



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

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



Band5-1.4MHz-16QAM-20643-6RB#0



Date: 13.AUG.2020 08:25:19

Band5-3MHz-QPSK-20415-1RB#0



Date: 13.AUG.2020 08:25:38



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

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

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



Band5-3MHz-QPSK-20415-15RB#0



Date: 13.AUG.2020 08:26:13

Band5-3MHz-QPSK-20635-1RB#14



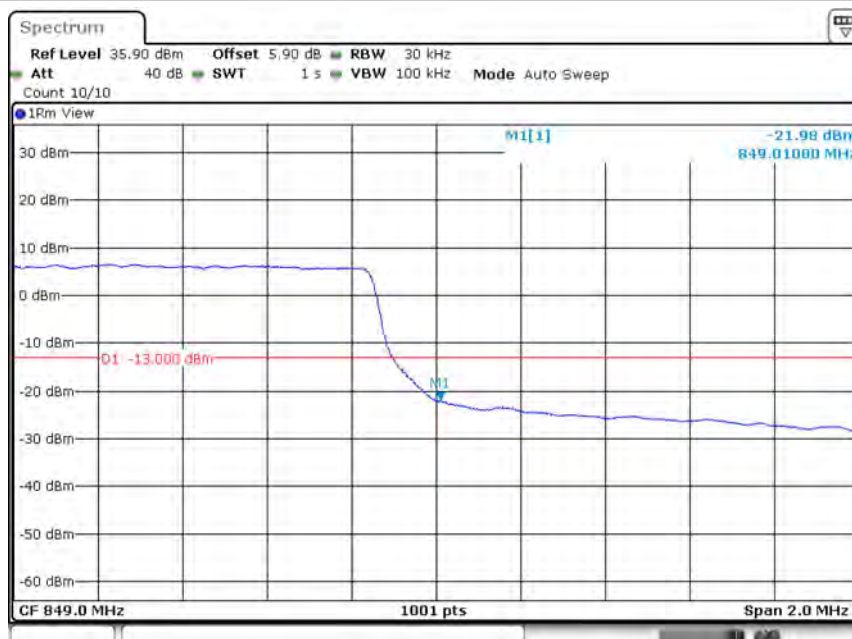
Date: 13.AUG.2020 08:26:49



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



Band5-3MHz-QPSK-20635-15RB#0



Date: 13.AUG.2020 08:27:24

Band5-3MHz-64QAM-20415-1RB#0



Date: 18.AUG.2020 21:39:00

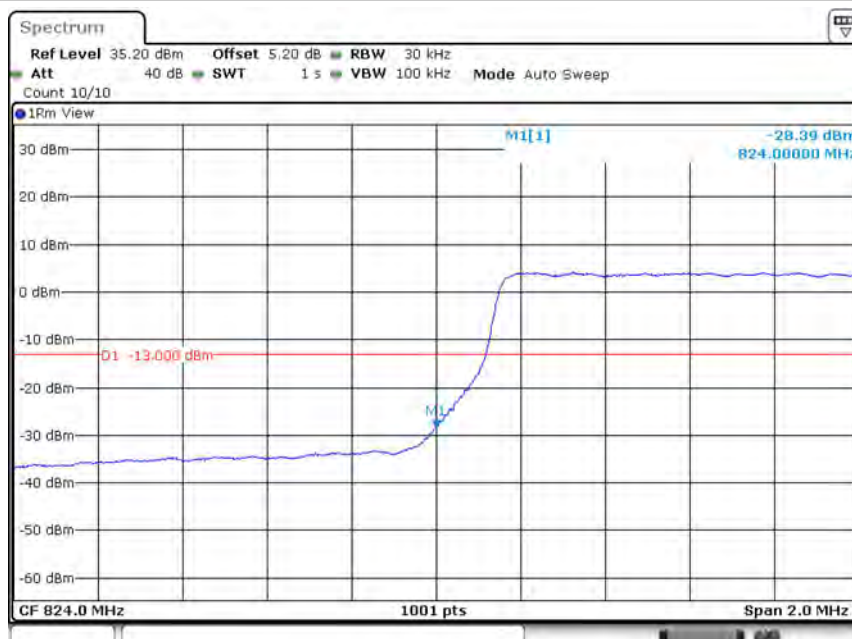


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-3MHz-64QAM-20415-15RB#0



Date: 18.AUG.2020 21:39:20

Band5-3MHz-64QAM-20635-1RB#14



Date: 18.AUG.2020 21:39:46



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



Band5-3MHz-64QAM-20635-15RB#0



Date: 18.AUG.2020 21:40:07

Band5-3MHz-16QAM-20415-1RB#0



Date: 13.AUG.2020 08:25:56



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



Band5-3MHz-16QAM-20415-15RB#0



Date: 13.AUG.2020 08:26:31

Band5-3MHz-16QAM-20635-1RB#14



Date: 13.AUG.2020 08:27:07



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

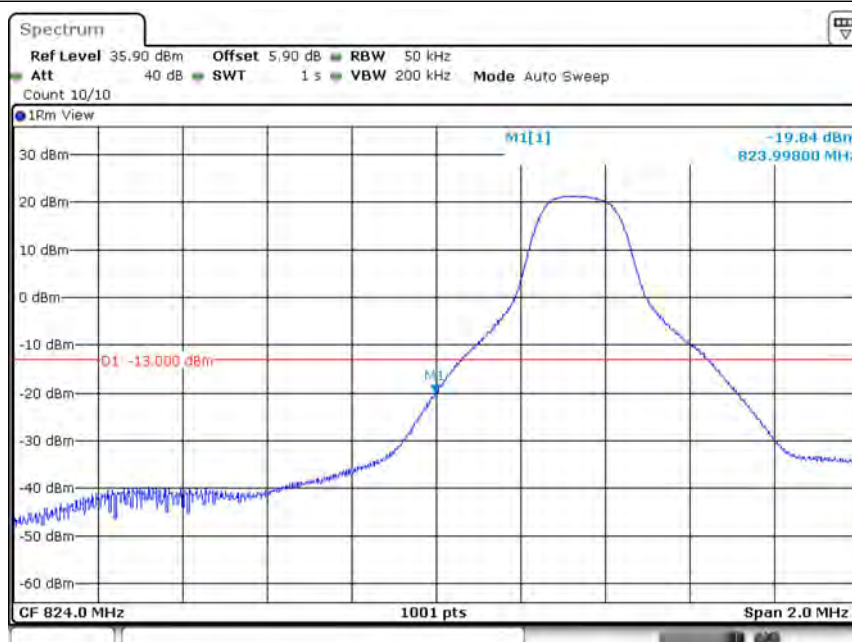


Band5-3MHz-16QAM-20635-15RB#0



Date: 13.AUG.2020 08:27:42

Band5-5MHz-QPSK-20425-1RB#0



Date: 13.AUG.2020 08:28:01

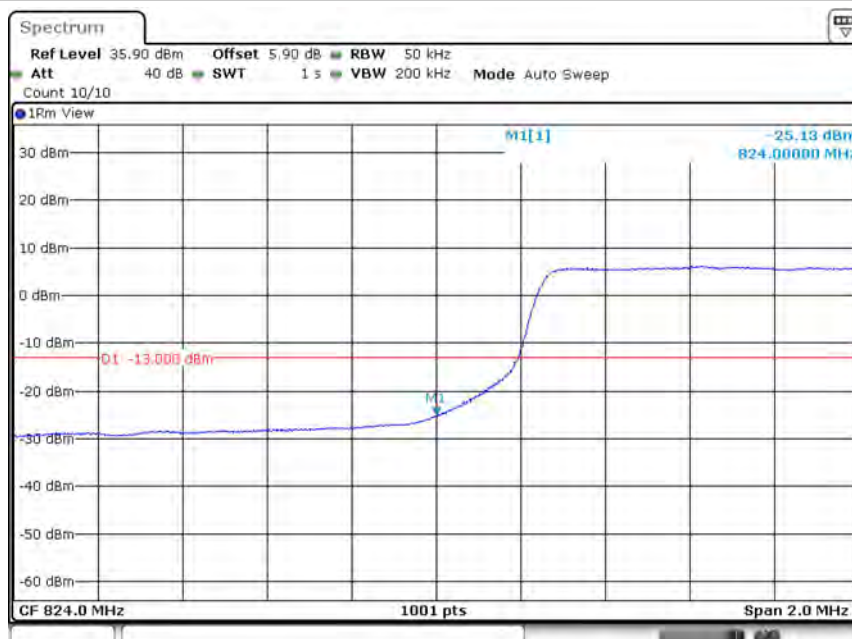


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-5MHz-QPSK-20425-25RB#0



Date: 13 AUG 2020 08:28:42

Band5-5MHz-QPSK-20625-1RB#24



Date: 13 AUG 2020 08:29:17

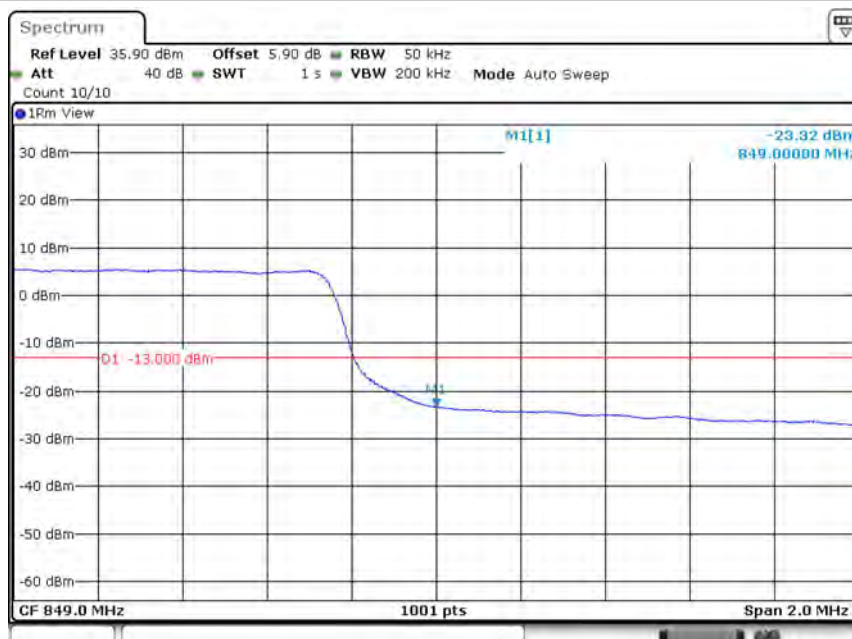


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

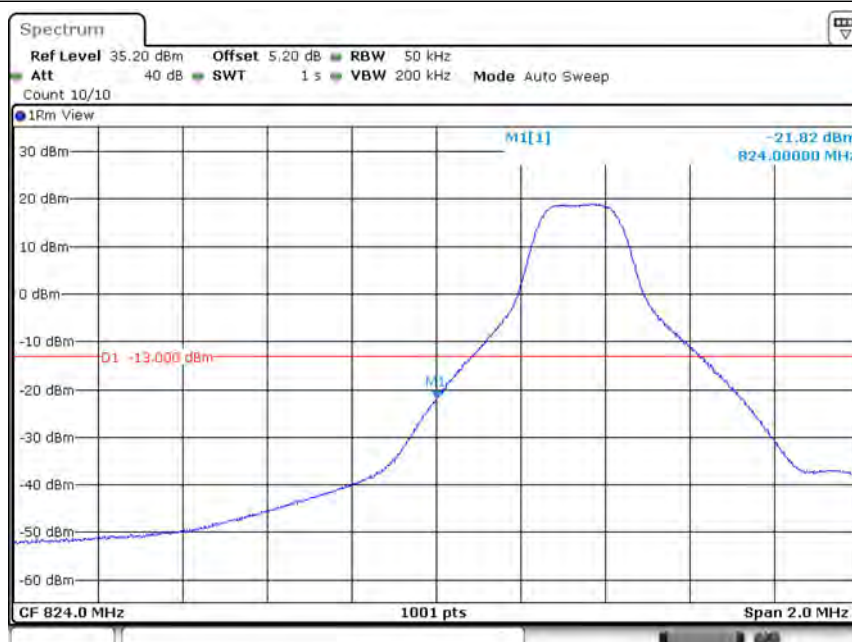


Band5-5MHz-QPSK-20625-25RB#0



Date: 13.AUG.2020 08:29:53

Band5-5MHz-64QAM-20425-1RB#0



Date: 19.AUG.2020 08:18:49



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



Band5-5MHz-64QAM-20425-25RB#0

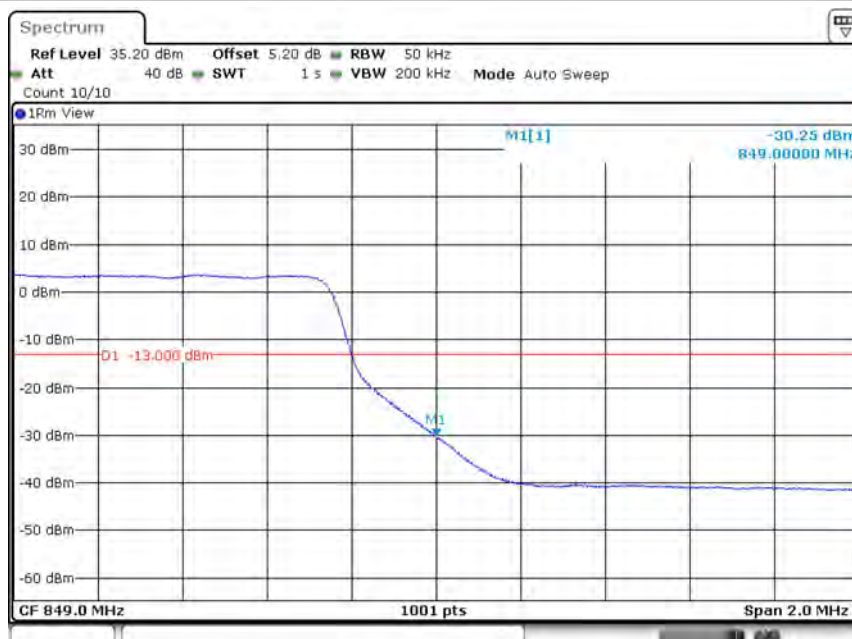


Band5-5MHz-64QAM-20625-1RB#24



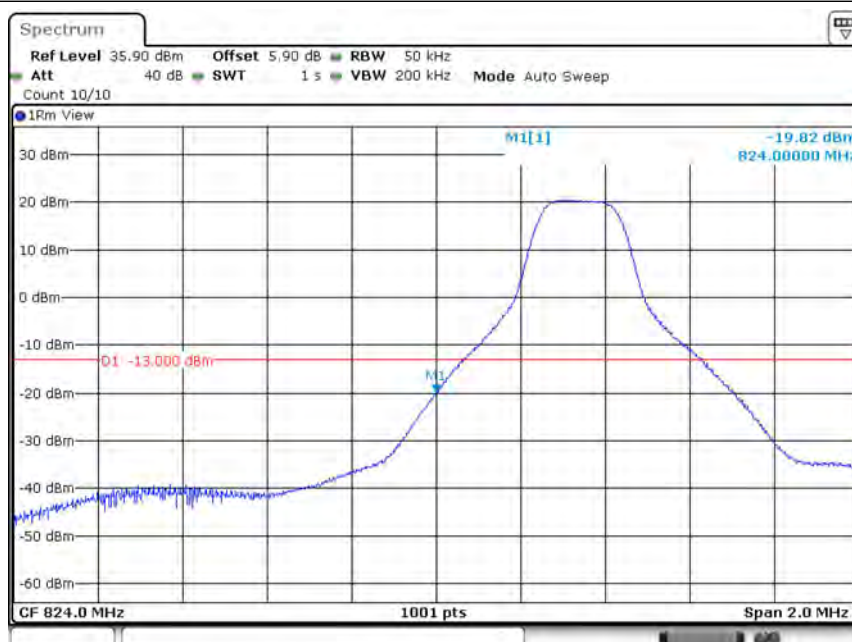


Band5-5MHz-64QAM-20625-25RB#0



Date: 19.AUG 2020 08:25:36

Band5-5MHz-16QAM-20425-1RB#0



Date: 13.AUG 2020 08:28:19

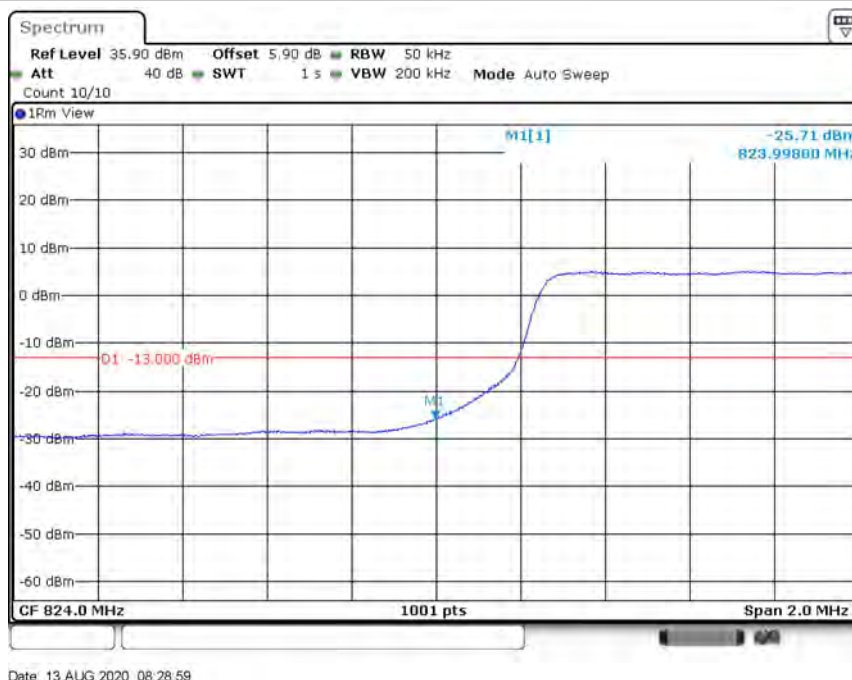


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20625-1RB#24



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

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



Band5-5MHz-16QAM-20625-25RB#0

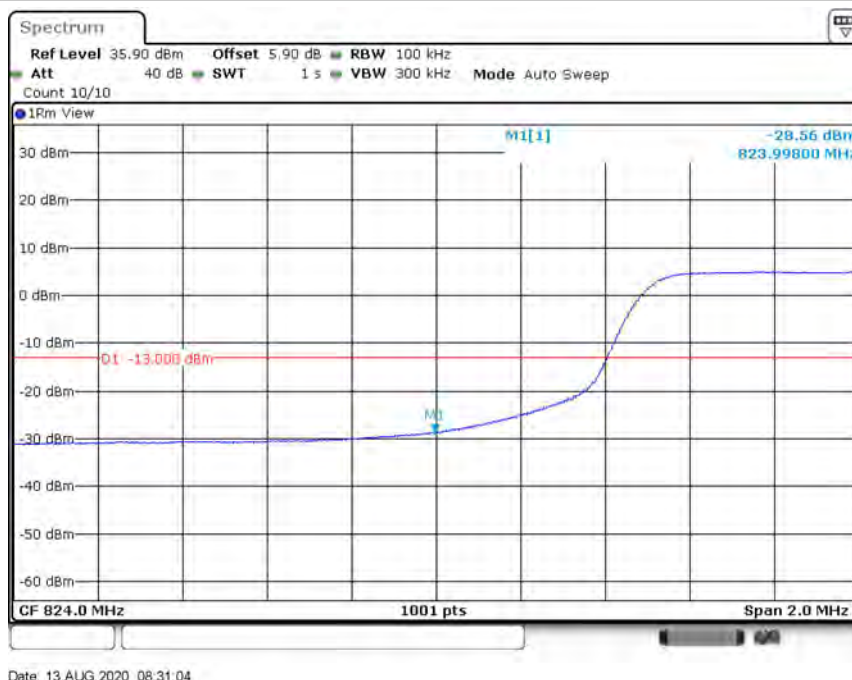


Band5-10MHz-QPSK-20450-1RB#0





Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#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.

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



Band5-10MHz-QPSK-20600-50RB#0

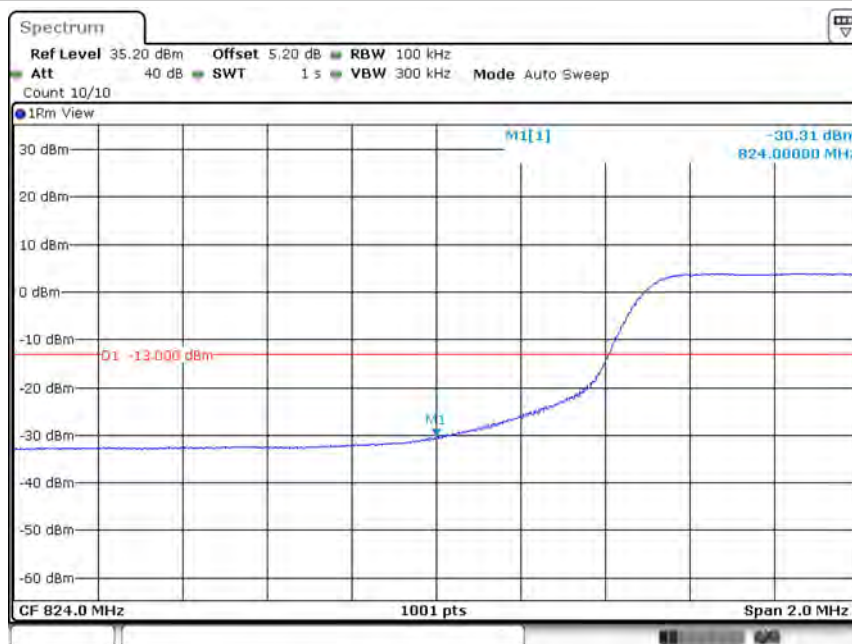


Band5-10MHz-64QAM-20450-1RB#0





Band5-10MHz-64QAM-20450-50RB#0



Date: 19.AUG 2020 08:26:24

Band5-10MHz-64QAM-20600-1RB#49



Date: 19.AUG 2020 08:26:50

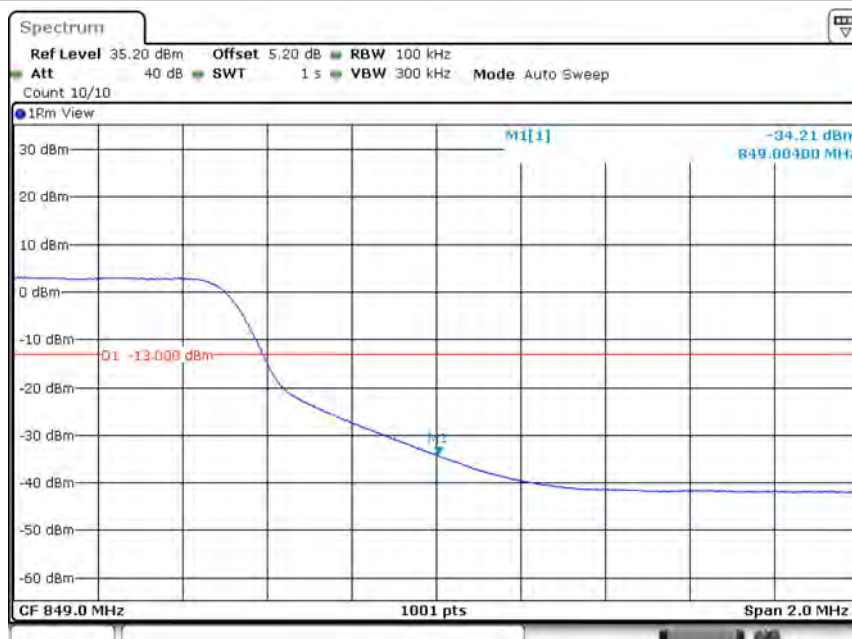


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

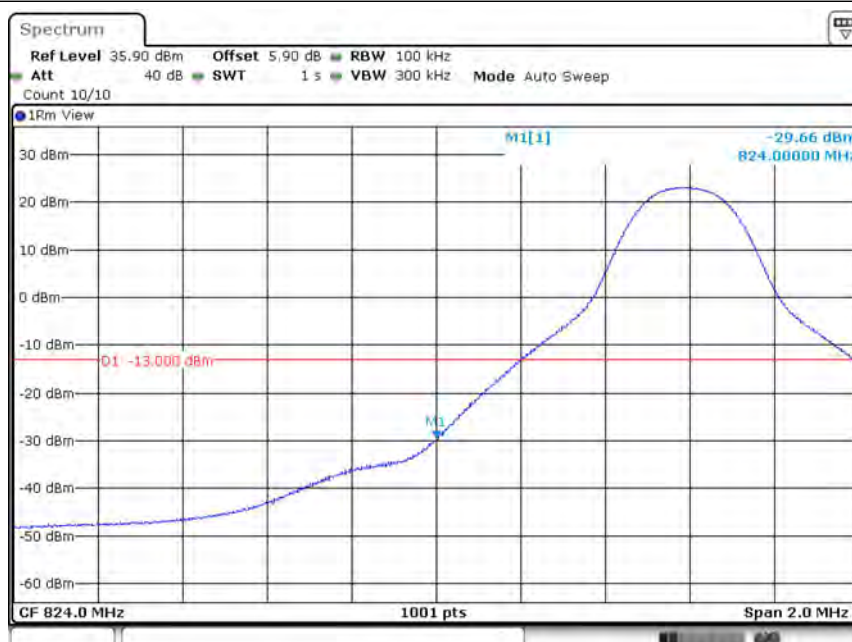


Band5-10MHz-64QAM-20600-50RB#0



Date: 19.AUG 2020 08:27:11

Band5-10MHz-16QAM-20450-1RB#0



Date: 13.AUG 2020 08:30:47

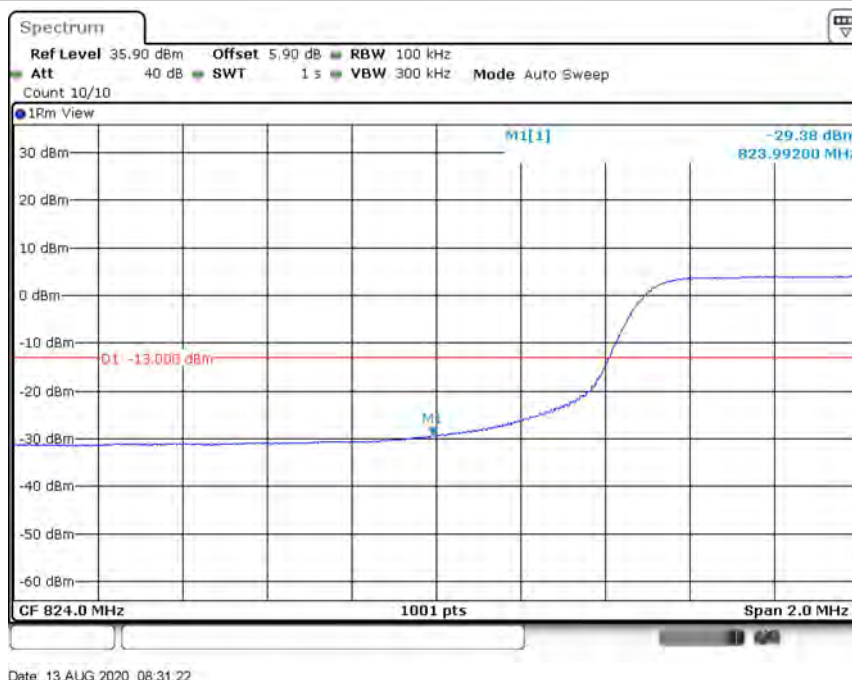


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20600-1RB#49



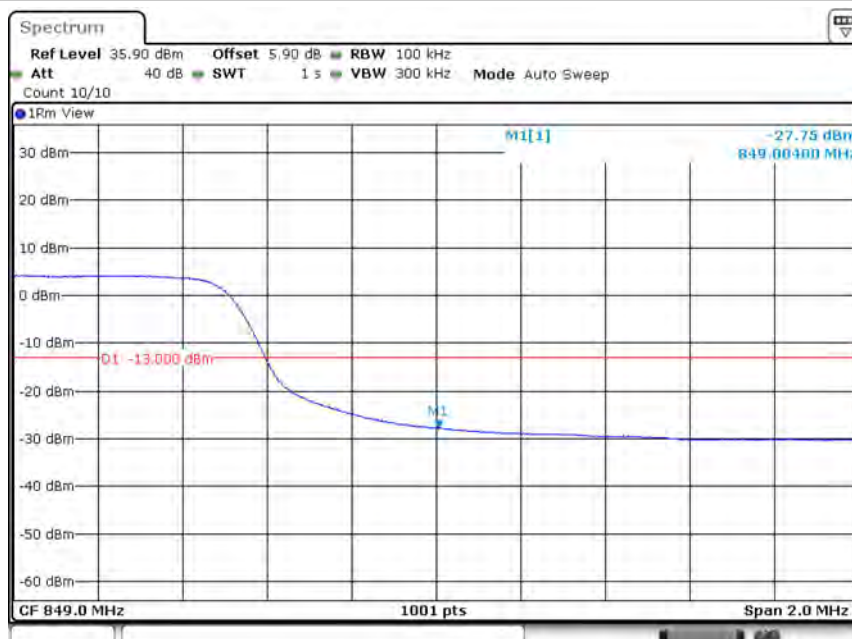
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Band5-10MHz-16QAM-20600-50RB#0



Date 13 AUG 2020 08:32:33



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

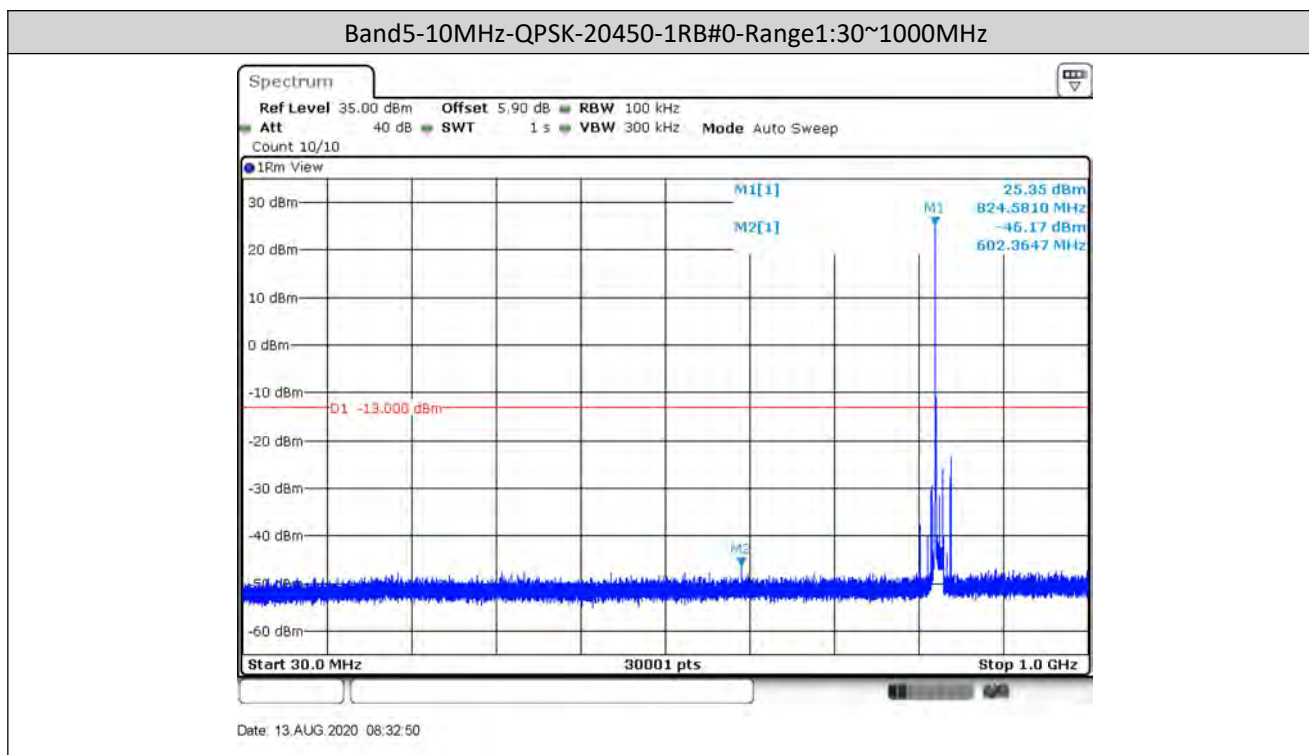
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

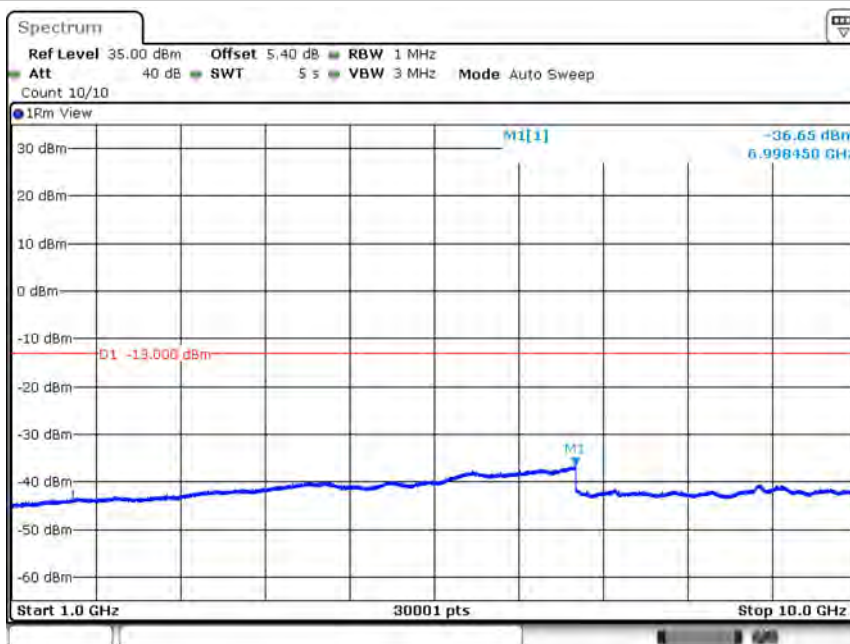
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

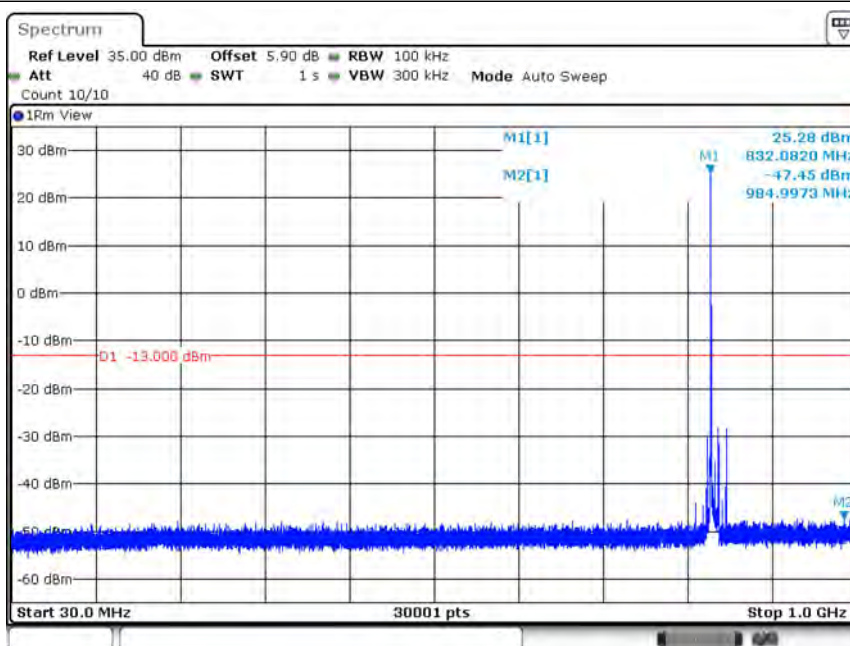


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:26:46

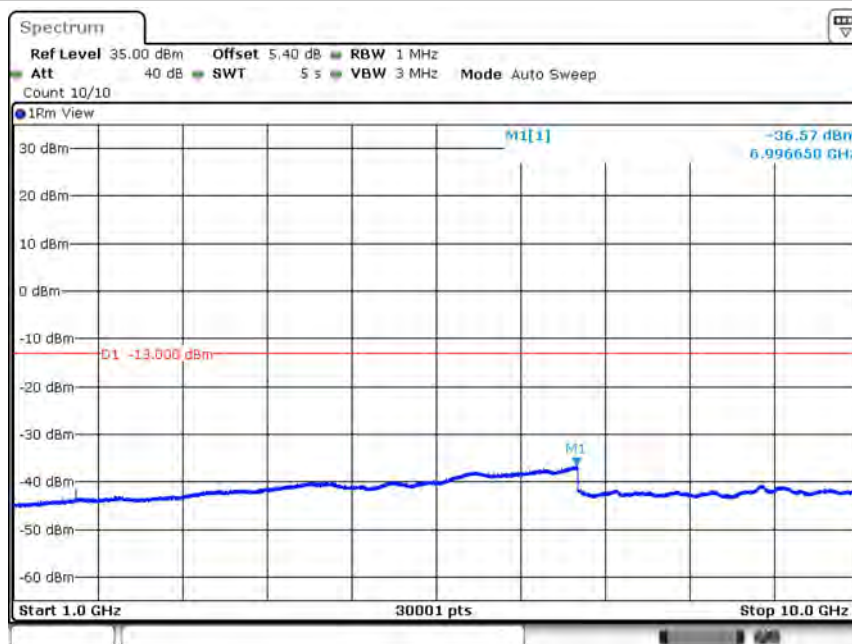
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Date: 13 AUG 2020 08:35:39

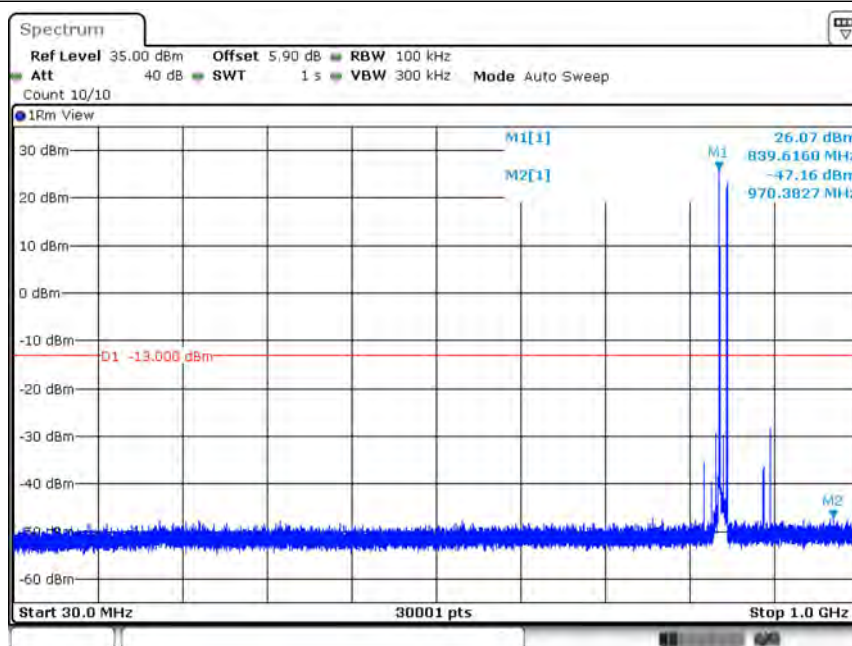


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:29:08

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



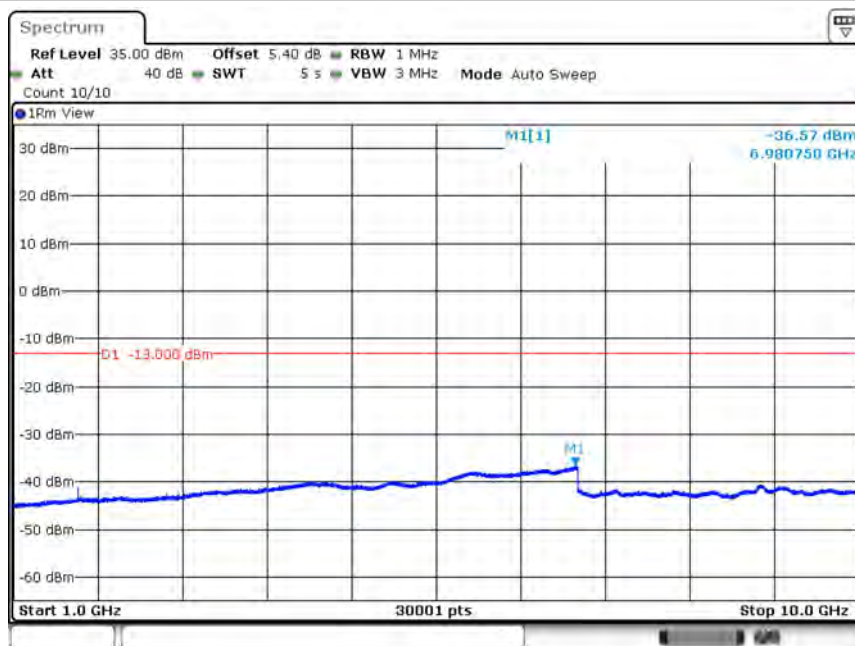
Date: 13 AUG 2020 08:38:26



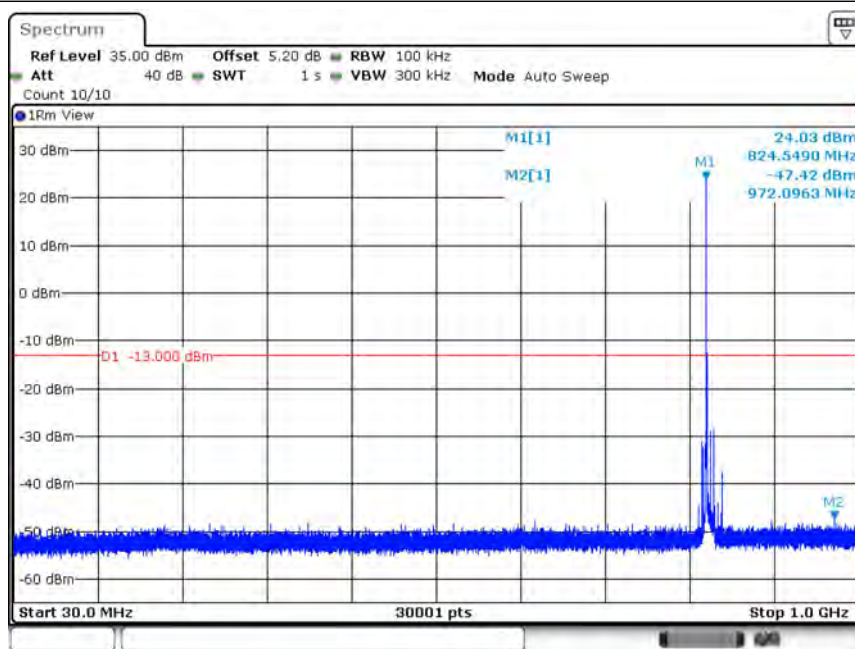
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

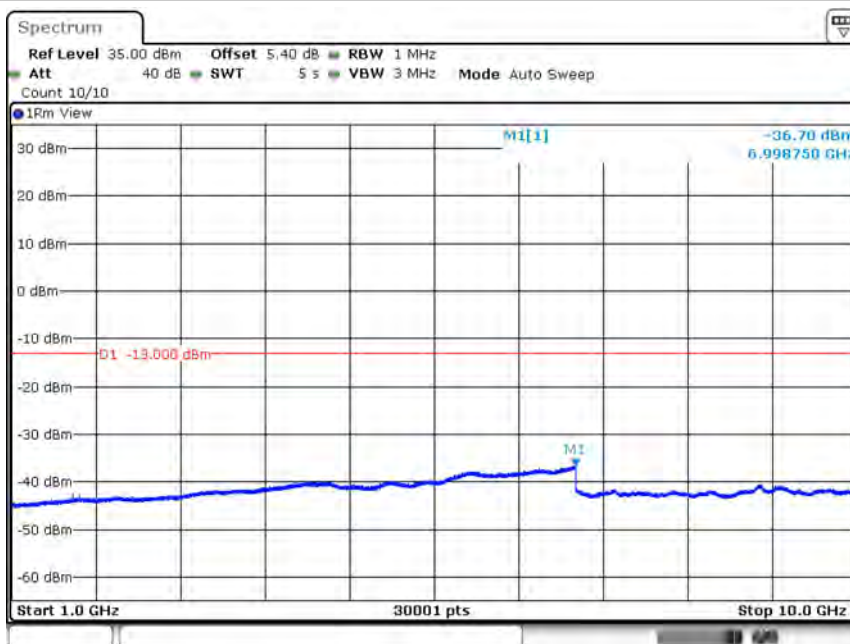
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz

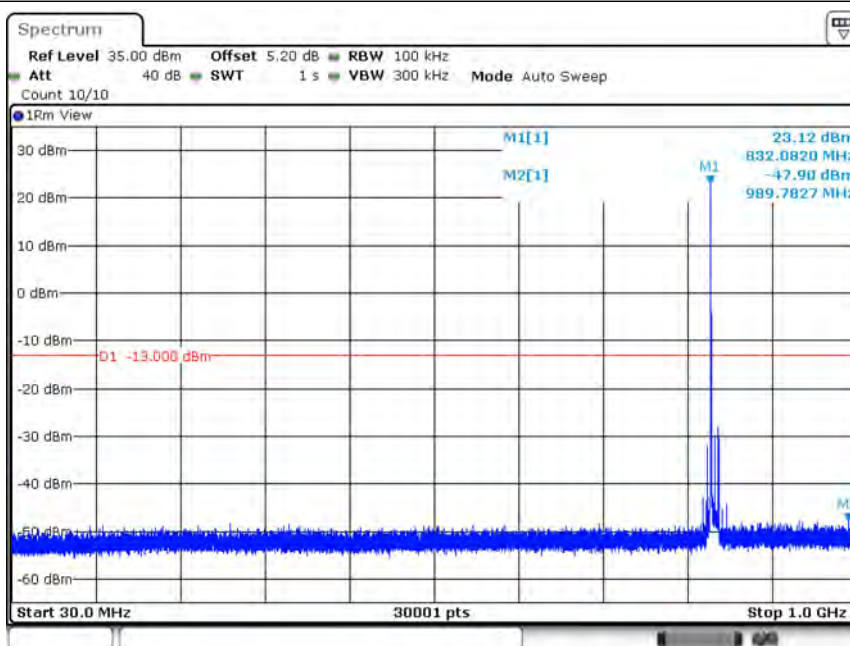


Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 21:02:30

Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz

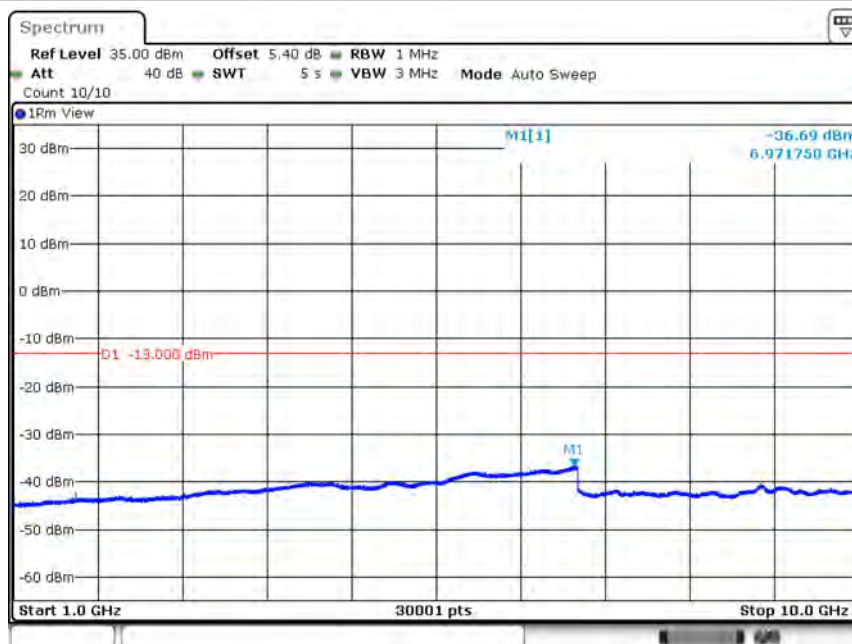


Date: 19 AUG 2020 08:29:03



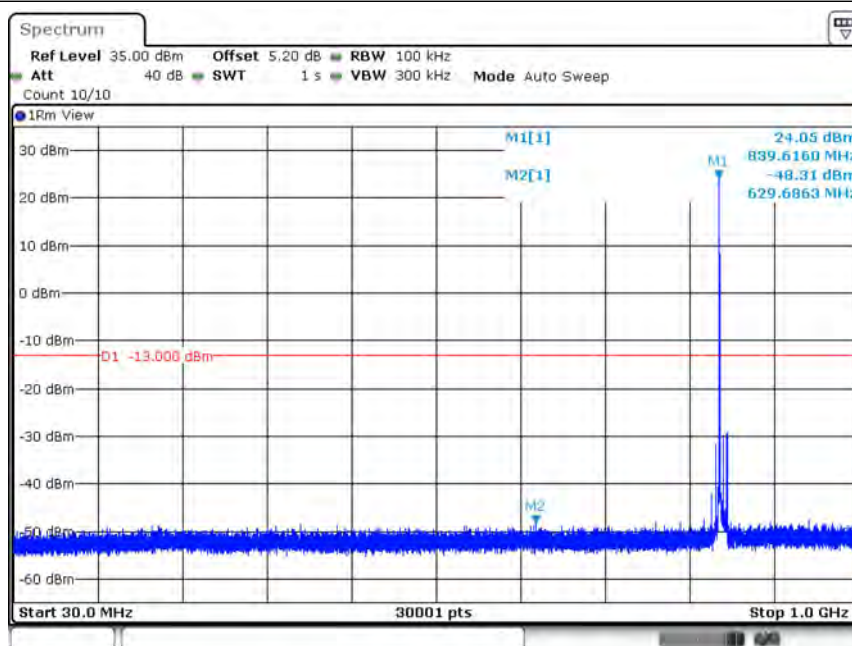


Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 21:03:40

Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



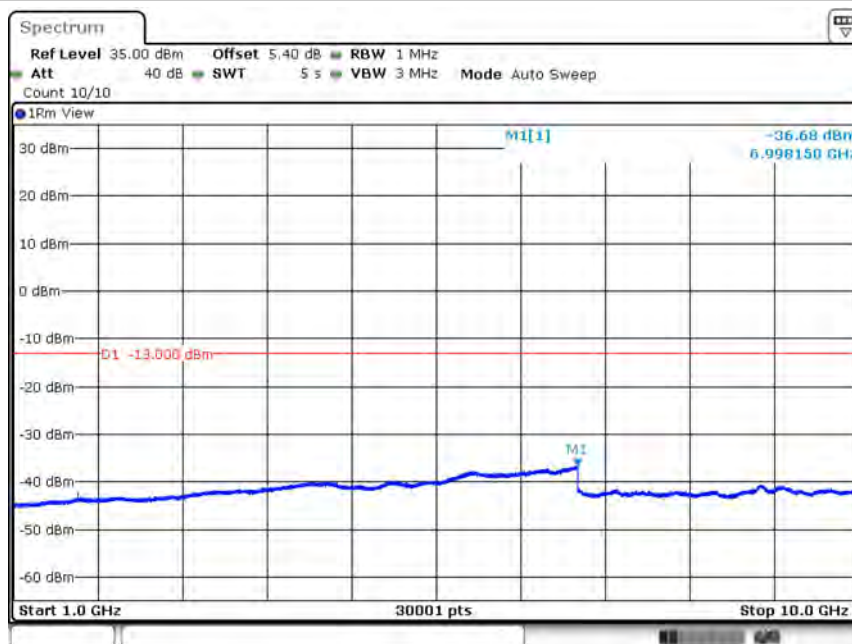
Date: 19 AUG 2020 08:30:31



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

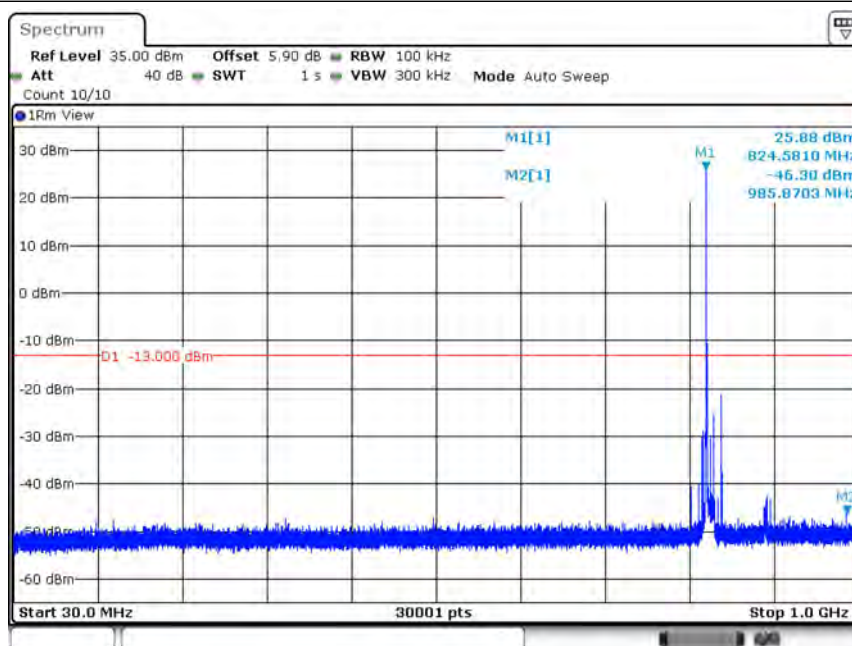
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 21:04:51

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



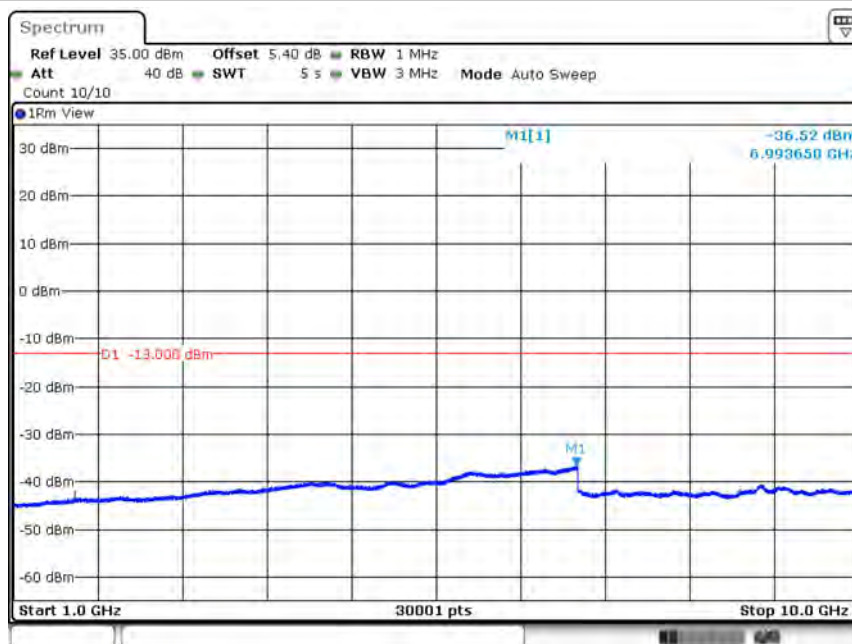
Date: 13 AUG 2020 08:34:14



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.

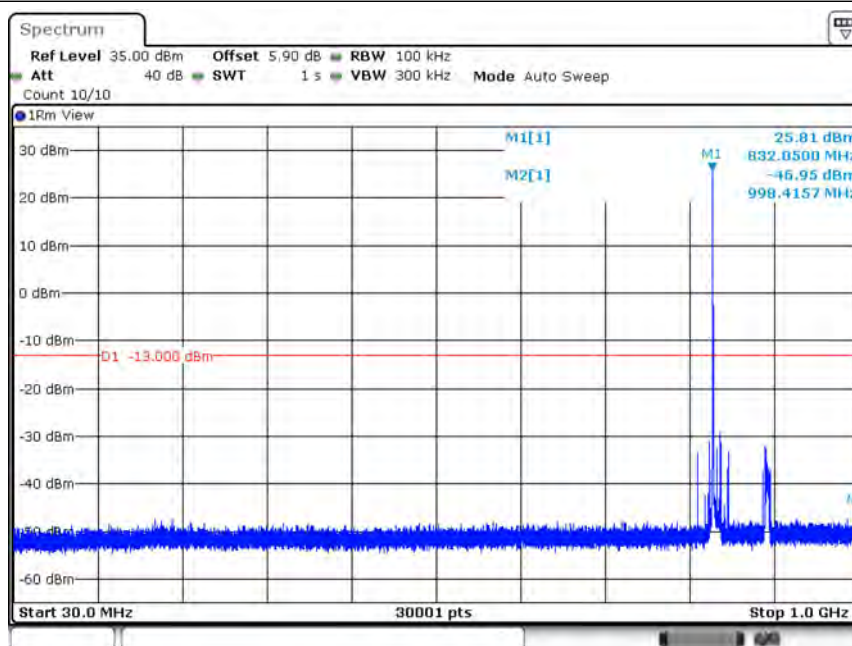
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:27:57

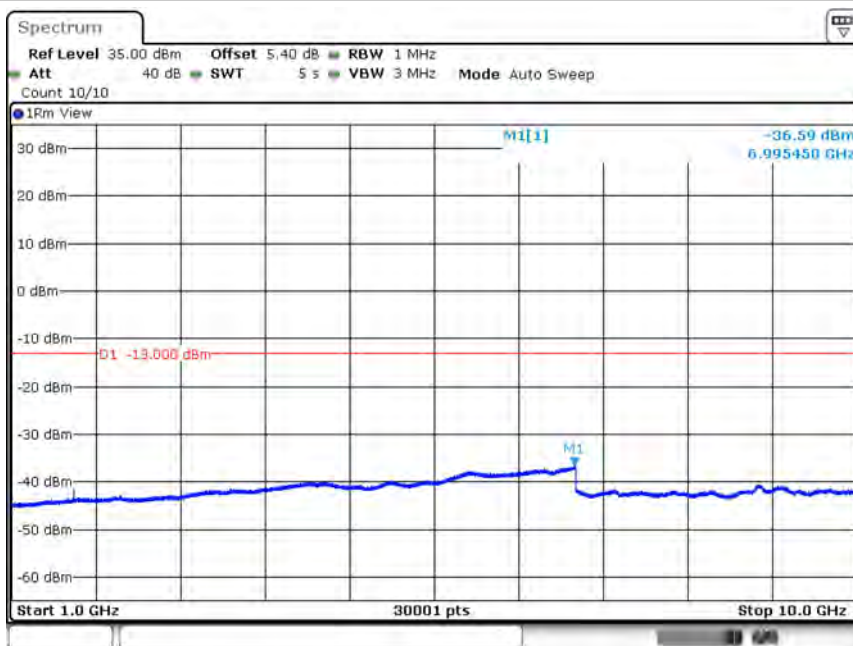
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 13 AUG 2020 08:37:02

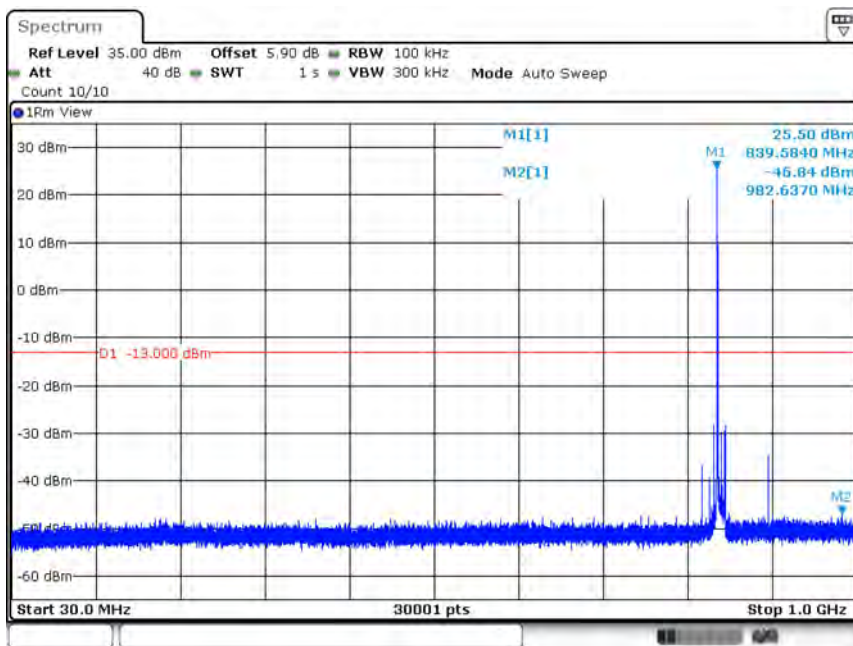


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:30:18

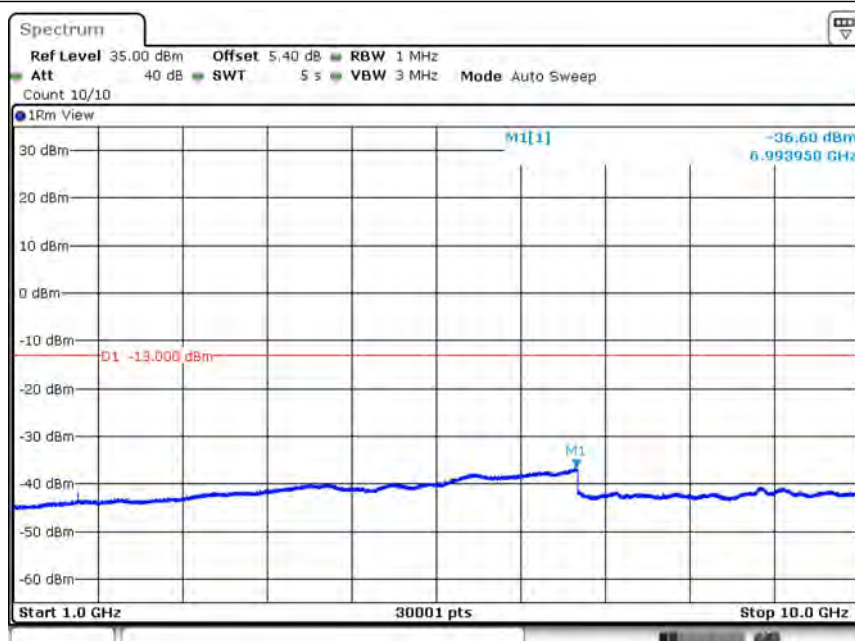
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 13 AUG 2020 08:39:50



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 1 SEP 2020 20:32:40



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 expiration date of this document is illegal. Where the results of the analysis are not 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.

Results shown in this test report are only for 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.Dqccheck@sgs.com

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



7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.8375	-68.93	-13.00	55.93	Vertical
114.6367	-63.05	-13.00	50.05	Vertical
339.2515	-66.44	-13.00	53.44	Vertical
1649.3299	-57.81	-13.00	44.81	Vertical
2473.8948	-47.48	-13.00	34.48	Vertical
7414.1138	-55.85	-13.00	42.85	Vertical
42.6591	-62.42	-13.00	49.42	Horizontal
101.8321	-72.79	-13.00	59.79	Horizontal
236.7658	-65.31	-13.00	52.31	Horizontal
1649.3299	-57.65	-13.00	44.65	Horizontal
2473.8948	-41.22	-13.00	28.22	Horizontal
7480.1493	-56.21	-13.00	43.21	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.1585	-68.52	-13.00	55.52	Vertical
114.4427	-63.13	-13.00	50.13	Vertical
291.3311	-67.38	-13.00	54.38	Vertical
1664.1328	-57.90	-13.00	44.90	Vertical
2496.2993	-47.95	-13.00	34.95	Vertical
7952.4317	-55.55	-13.00	42.55	Vertical
42.7076	-62.24	-13.00	49.24	Horizontal
115.3158	-73.00	-13.00	60.00	Horizontal
230.8485	-65.57	-13.00	52.57	Horizontal
1664.1328	-55.29	-13.00	42.29	Horizontal
2496.2993	-41.60	-13.00	28.60	Horizontal
7466.3822	-55.92	-13.00	42.92	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-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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-68.68	-13.00	55.68	Vertical
112.3086	-62.37	-13.00	49.37	Vertical
382.7096	-64.34	-13.00	51.34	Vertical
1678.9358	-58.70	-13.00	45.70	Vertical
2518.7037	-48.31	-13.00	35.31	Vertical
8002.3667	-55.58	-13.00	42.58	Vertical
43.1927	-61.79	-13.00	48.79	Horizontal
113.2302	-73.56	-13.00	60.56	Horizontal
241.3251	-64.92	-13.00	51.92	Horizontal
1679.3359	-50.81	-13.00	37.81	Horizontal
2518.7037	-42.88	-13.00	29.88	Horizontal
7459.8487	-55.84	-13.00	42.84	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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	1.50	0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	2.00	0.002370	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.60	0.000711	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	2.20	0.002654	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	0.60	0.000724	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	1.80	0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	1.30	0.001540	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	1.70	0.002051	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	1.10	0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	1.00	0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	1.20	0.001422	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	1.80	0.002171	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.30	0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	0.20	0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.40	-0.001659	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	1.10	0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-10	1.00	0.001206	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	1.80	0.002171	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	2.00	0.002413	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	1.00	0.001206	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-0.70	-0.000844	±2.5	PASS



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

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



Band5	10MHz	64QAM	20450	50RB#0	NV	40	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-10	0.70	0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	0.20	0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	1.40	0.001659	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-10	1.00	0.001185	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	0.50	0.000592	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	1.40	0.001659	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	1.80	0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-2.90	-0.003498	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-2.60	-0.003136	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	0.70	0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-1.40	-0.001674	±2.5	PASS





Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	1.00	0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-2.30	-0.002725	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-2.70	-0.003199	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.50	-0.000592	±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