

Appendix B

E-UTRA Band 17



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Shenzhen SGS 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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses 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 | (86-755) 26012053 | (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 | (86-755) 26012053 | (86-755) 26710594 | sgs.china@sgs.com

CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1. TEST RESULT	3
2. PEAK-TO-AVERAGE RATIO (CCDF)	8
2.1. TEST RESULT	8
2.2. TEST PLOTS.....	8
3. MODULATION CHARACTERISTICS	14
3.1. TEST MODE = LTE /TM1 10MHz.....	14
3.1.1. TEST CHANNEL = MCH.....	14
3.2. TEST MODE = LTE /TM2 10MHz.....	15
3.2.1. TEST CHANNEL = MCH.....	15
3.3. TEST MODE = LTE /TM3 10MHz.....	16
3.3.1. TEST CHANNEL = MCH.....	16
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	17
4.1. TEST RESULT	17
4.2. TEST PLOTS.....	19
5. BAND EDGE COMPLIANCE	28
5.1. TEST PLOTS.....	28
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	41
6.1. TEST PLOTS.....	41
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	60
7.1. TEST MODE =LTE/TM1 10MHz.....	60
7.1.1. TEST CHANNEL = LCH	60
7.1.2. TEST CHANNEL = MCH.....	60
7.1.3. TEST CHANNEL = HCH.....	61
8. FREQUENCY STABILITY.....	62
8.1. FREQUENCY VS VOLTAGE	62
8.2. FREQUENCY Vs TEMPERATURE	62

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.

the 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.

1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.28	24.13	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.00	23.85	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.34	23.19	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.43	23.28	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.39	23.24	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.04	23.89	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.31	24.16	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.46	23.31	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.98	23.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.27	24.12	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.02	23.87	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.29	23.14	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.35	23.2	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.27	23.12	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.31	22.16	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.46	22.31	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.22	22.07	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.44	21.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.51	21.36	34.77	PASS

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



Band17	5MHz	64QAM	23755	25RB#0	20.43	21.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.28	22.13	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.50	22.35	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.29	22.14	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.38	21.23	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.56	21.41	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.42	21.27	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.12	21.97	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.41	22.26	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.26	22.11	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.33	21.18	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.39	21.24	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.32	21.17	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.31	21.16	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.50	23.35	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.42	22.27	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.48	22.33	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.35	22.2	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.26	23.11	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.70	23.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.37	23.22	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.38	22.23	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.47	22.32	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.34	22.19	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.24	23.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.40	23.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.30	22.15	34.77	PASS

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



Band17	5MHz	16QAM	23825	12RB#6	21.40	22.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.30	22.15	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.32	22.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.42	23.27	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.71	23.56	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.10	23.95	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.30	23.15	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.70	23.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.38	23.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.28	24.13	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.35	23.2	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.16	24.01	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.74	23.59	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.39	23.24	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.04	22.89	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.19	23.04	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.32	23.17	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.12	22.97	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.63	21.48	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.37	22.22	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.77	21.62	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.31	21.16	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.35	21.2	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.32	21.17	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.45	21.3	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.96	23.81	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.88	23.73	34.77	PASS

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



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band17	10MHz	64QAM	23790	1RB#0	20.91	21.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.65	22.5	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.91	22.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.77	22.62	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.84	23.69	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	23.06	23.91	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.87	23.72	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.78	22.63	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.89	22.74	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.74	22.59	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.50	23.35	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.71	22.56	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.87	22.72	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.17	22.02	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.34	22.19	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.04	21.89	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.46	23.31	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.91	22.76	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.63	22.48	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.31	22.16	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.14	21.99	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.03	21.88	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.12	21.97	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.64	22.49	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.58	23.43	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.81	22.66	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.18	22.03	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.33	22.18	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.10	21.95	34.77	PASS

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



No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | www.sgsgroup.com.cn
邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | sgs.china@sgs.com

Remark:

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

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

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



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

2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band1 7	10MHz	QPSK	23780	50RB#0	4.35	13	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	4.41	13	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	4.64	13	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	6.14	13	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	6.09	13	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	6.09	13	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	5.51	13	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	5.51	13	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	5.54	13	PASS

2.2. Test Plots

Band17-10MHz-QPSK-23780-50RB#0

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

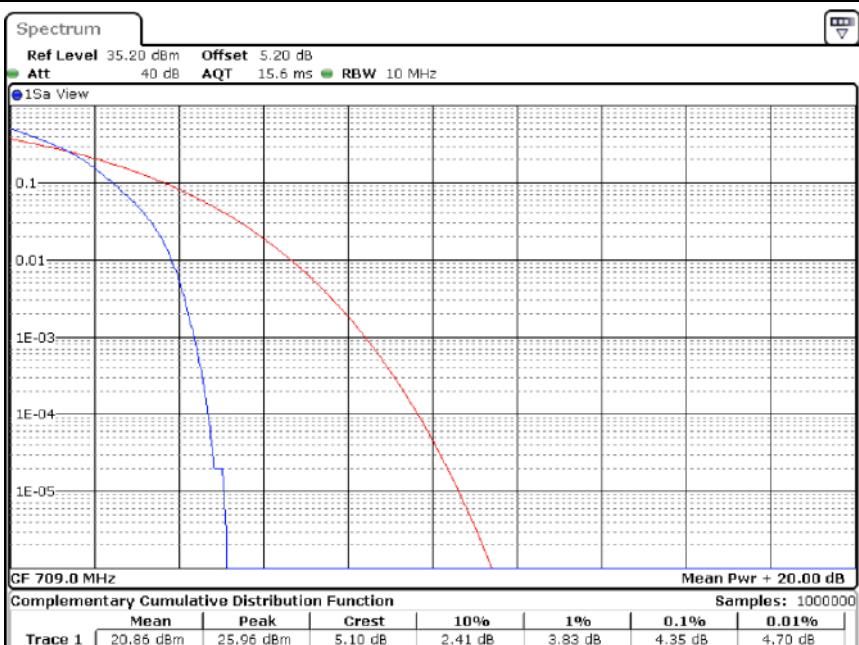
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Dcccheck@sgs.com



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

邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | www.sgsgroup.com.cn | sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Date: 16 JUL 2020 02:31:49

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-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

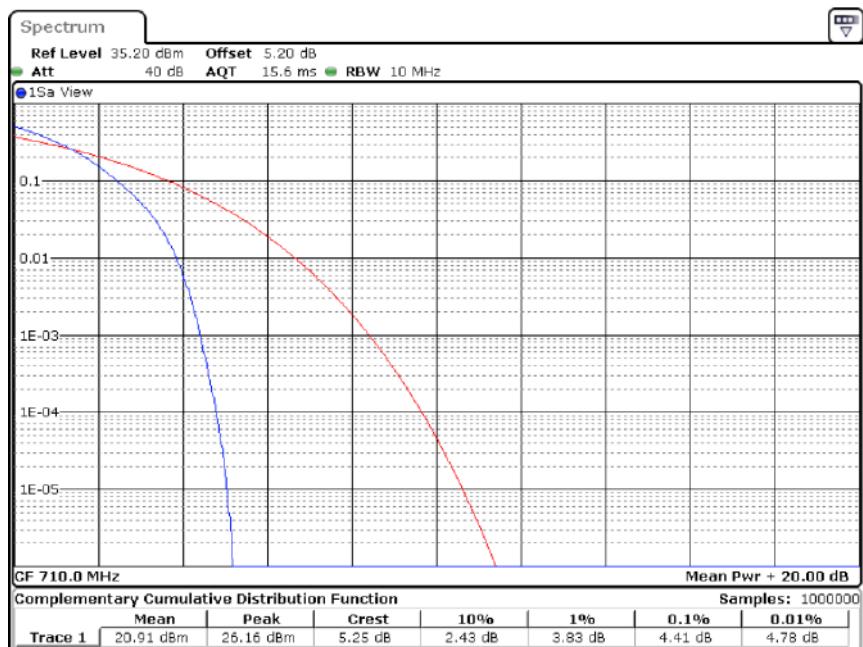


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory SGS Laboratory

中国·深圳·科技园中区M-10栋一号厂房

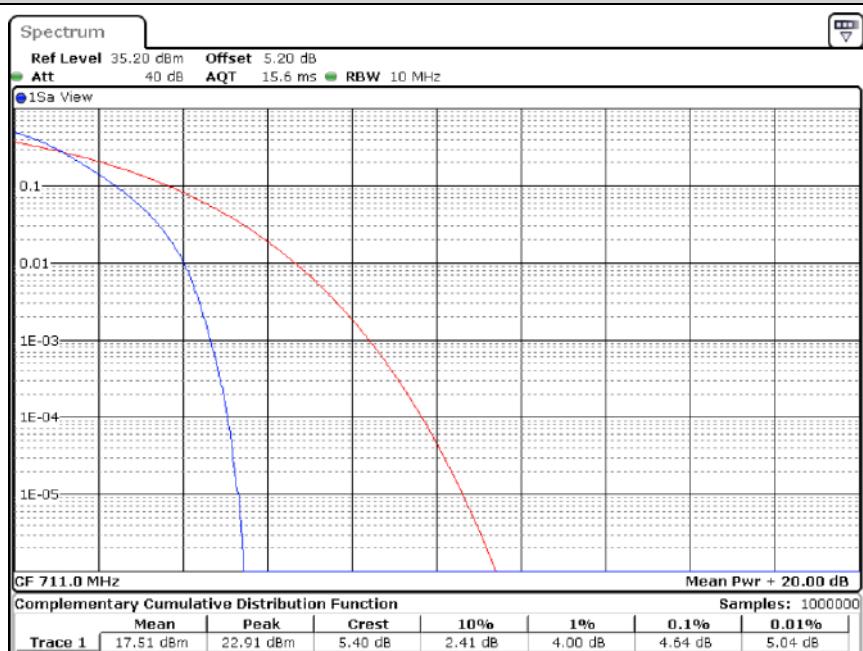
邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | www.sgsgroup.com.cn
sgs.china@sgs.com

Band17-10MHz-QPSK-23790-50RB#0



Date: 16 JUL 2020 02:32:11

Band17-10MHz-QPSK-23800-50RB#0

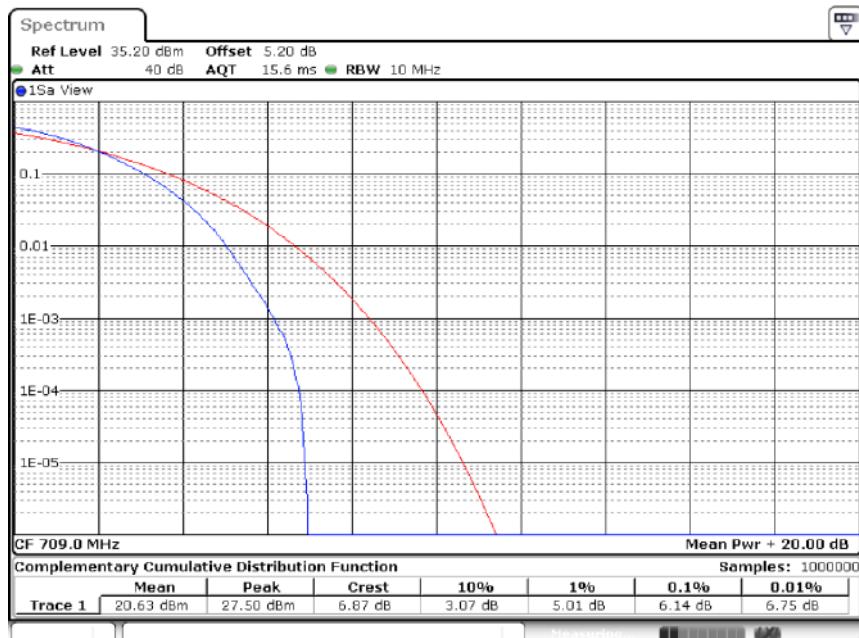


Date: 16 JUL 2020 02:32:34

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

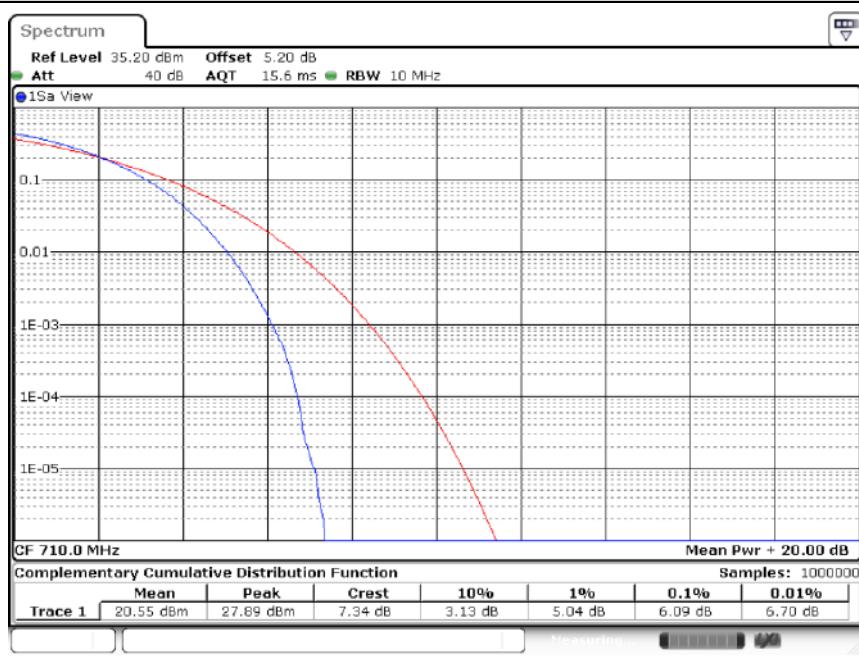
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

Band17-10MHz-64QAM-23780-50RB#0



Date: 11 AUG 2020 09:05:25

Band17-10MHz-64QAM-23790-50RB#0



Date: 11 AUG 2020 09:05:37

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.Dcccheck@sgs.com



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057

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

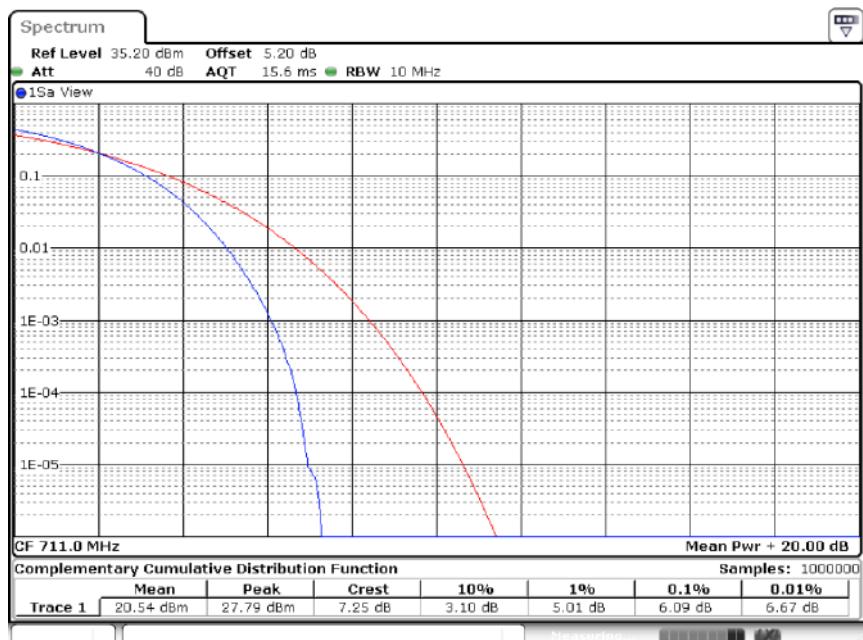
www.sgsgroup.com.cn

中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

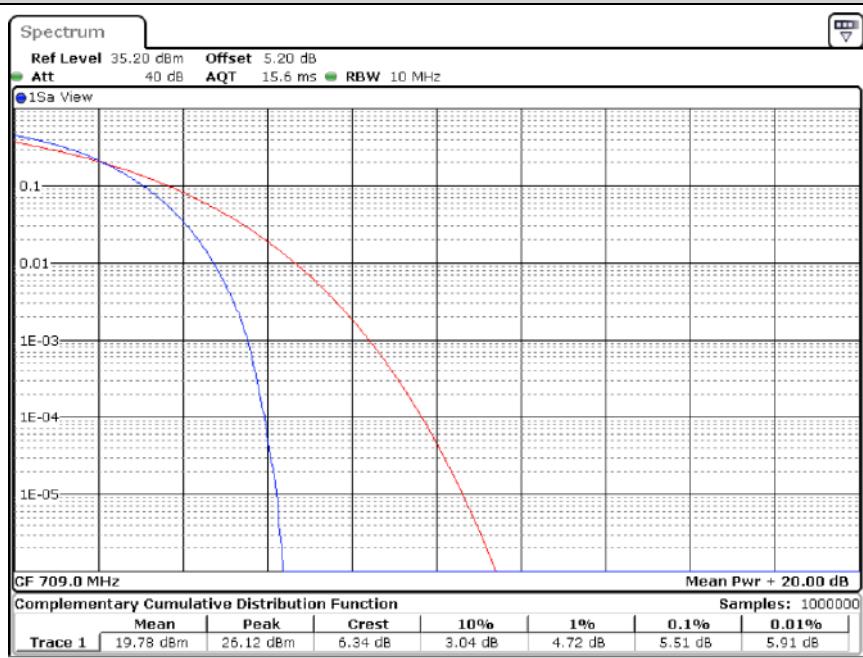
sgs.china@sgs.com

Band17-10MHz-64QAM-23800-50RB#0



Date: 11 AUG 2020 09:05:49

Band17-10MHz-16QAM-23780-50RB#0

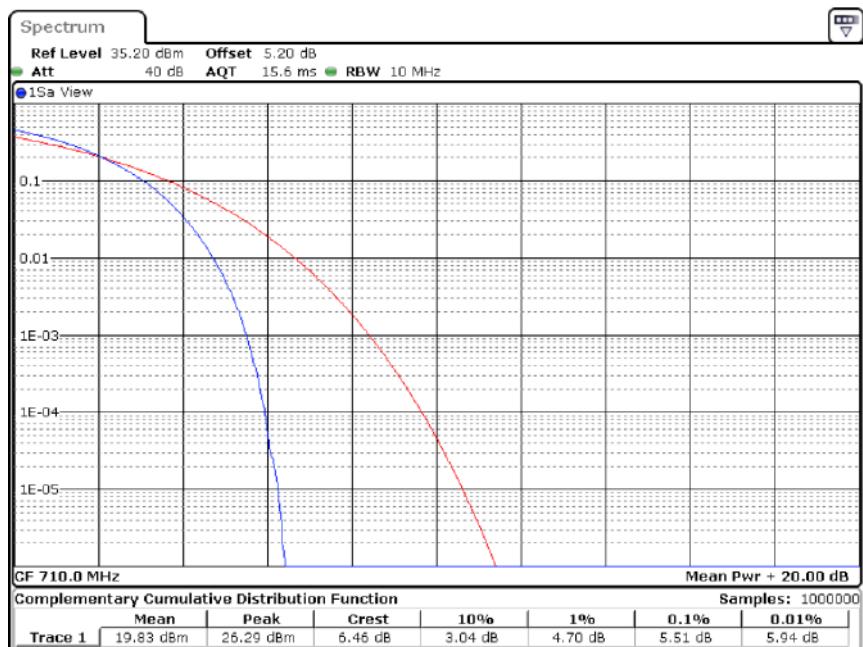


Date: 16 JUL 2020 02:32:00

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

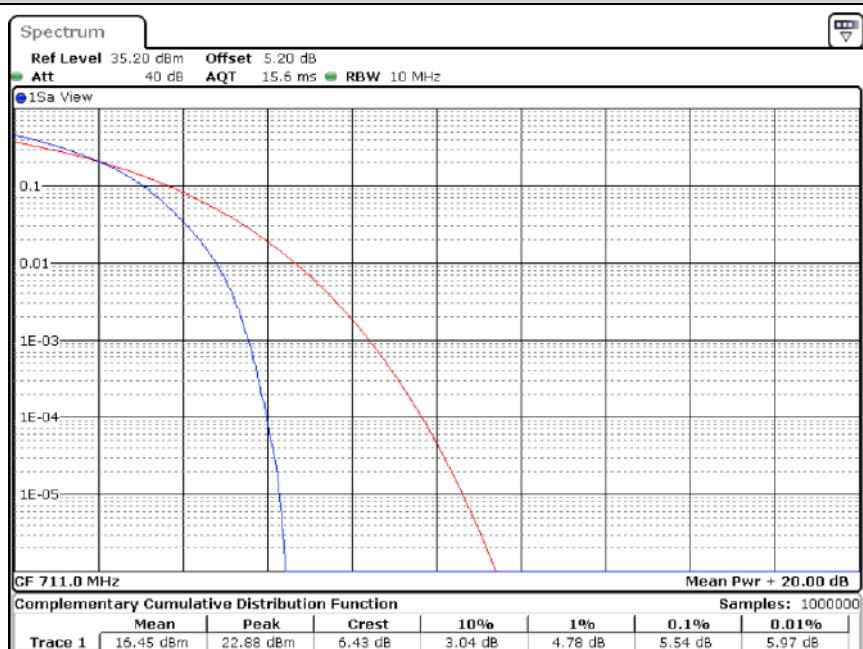
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Dcccheck@sgs.com

Band17-10MHz-16QAM-23790-50RB#0



Date: 16 JUL 2020 02:32:23

Band17-10MHz-16QAM-23800-50RB#0



Date: 16 JUL 2020 02:32:45

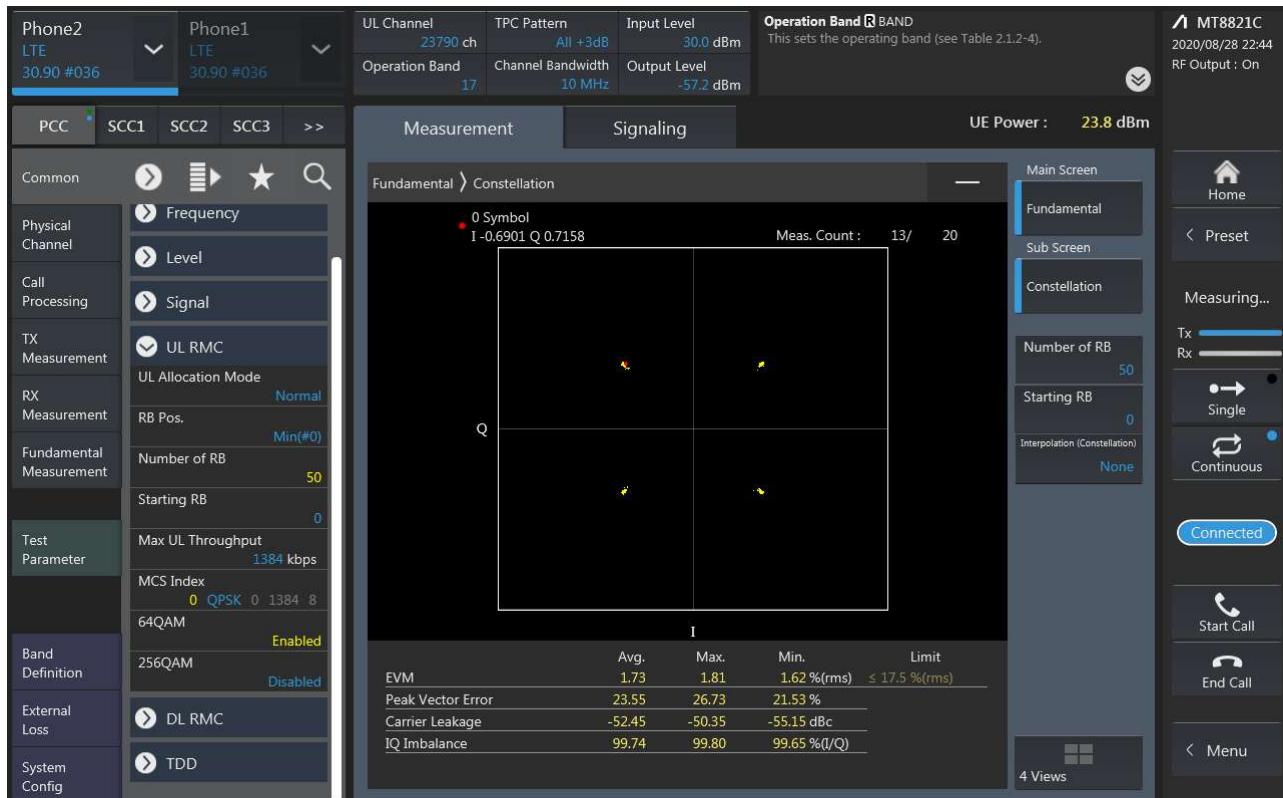
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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

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

3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH

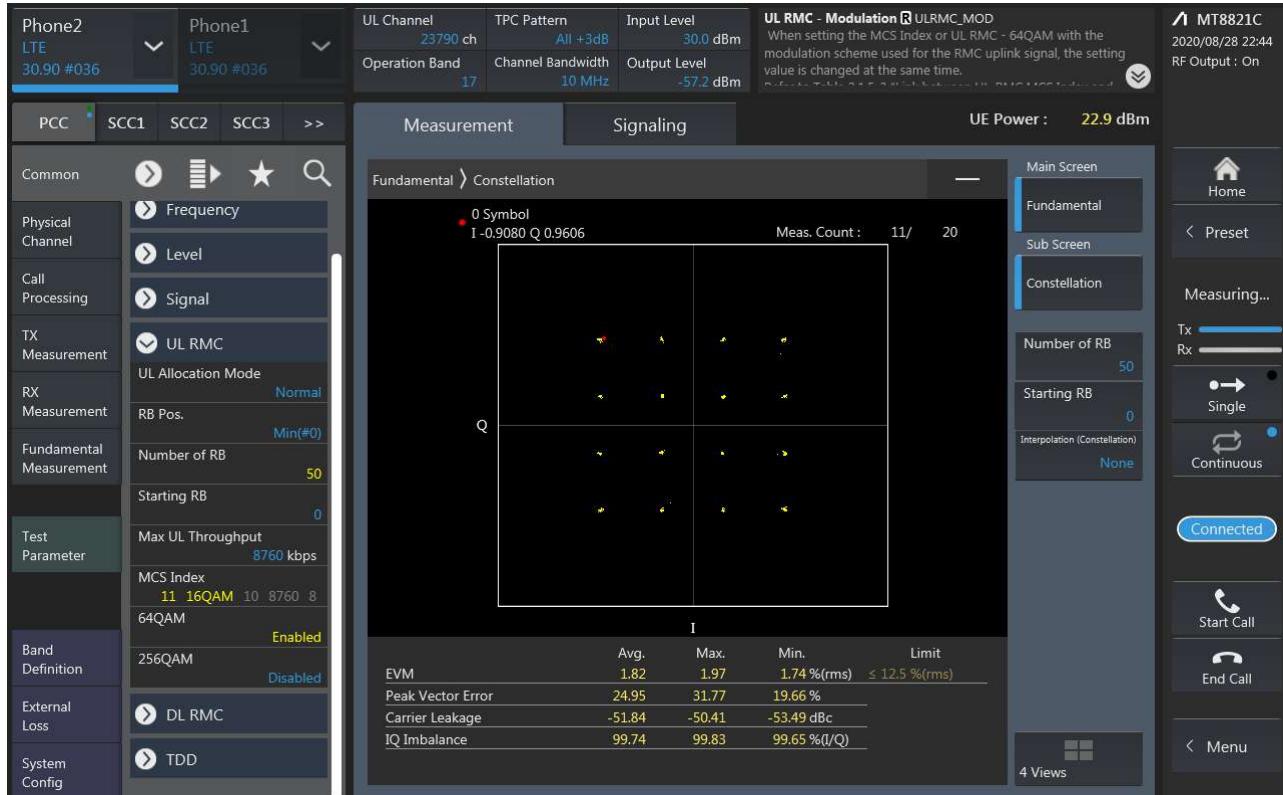


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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

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

3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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

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



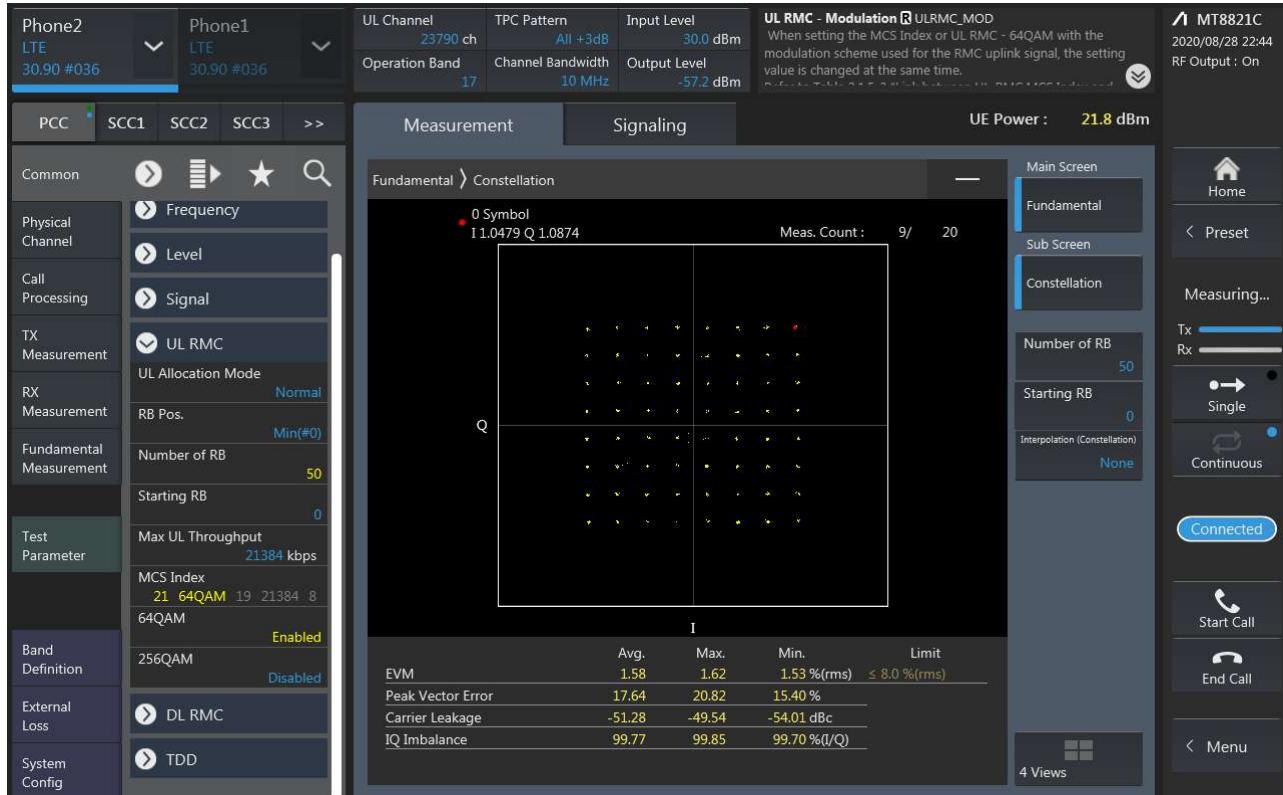
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

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

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH



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

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



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

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

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band1 7	5MHz	QPSK	23755	25RB#0	4.466	4.870	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	4.456	4.850	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band1 7	5MHz	64QAM	23755	25RB#0	4.476	4.880	PASS
Band1 7	5MHz	64QAM	23790	25RB#0	4.466	4.860	PASS
Band1 7	5MHz	64QAM	23825	25RB#0	4.466	4.890	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	4.476	4.900	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	4.476	4.900	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	4.496	4.930	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	8.911	9.580	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	8.891	9.600	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	8.911	9.640	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	8.911	9.580	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	8.891	9.620	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	8.911	9.560	PASS
Band1	10MHz	16QAM	23780	50RB#0	8.891	9.600	PASS

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

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



7							
Band1 7	10MHz	16QAM	23790	50RB#0	8.911	9.660	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	8.911	9.700	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 clauses 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.Dcccheck@sgs.com

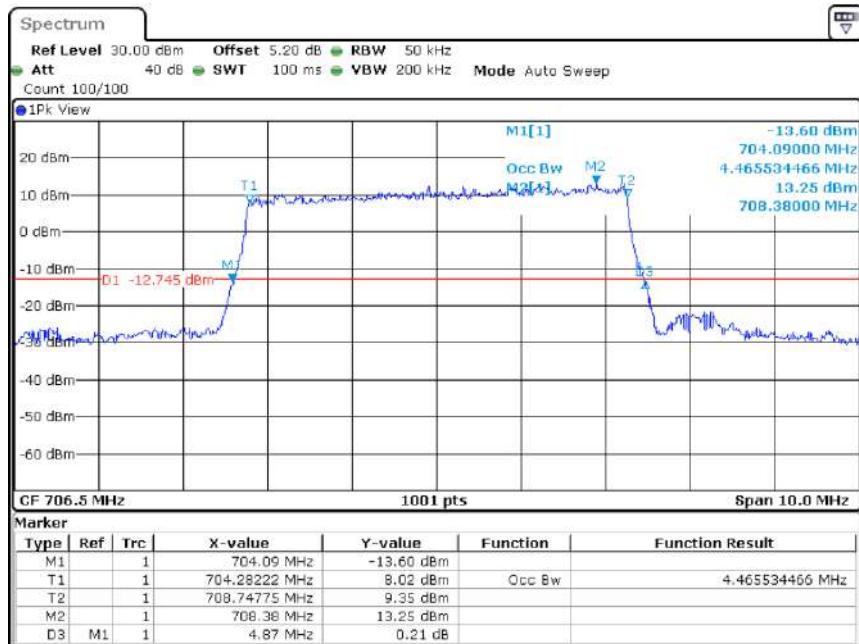
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Shenzhen SGS Laboratory

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

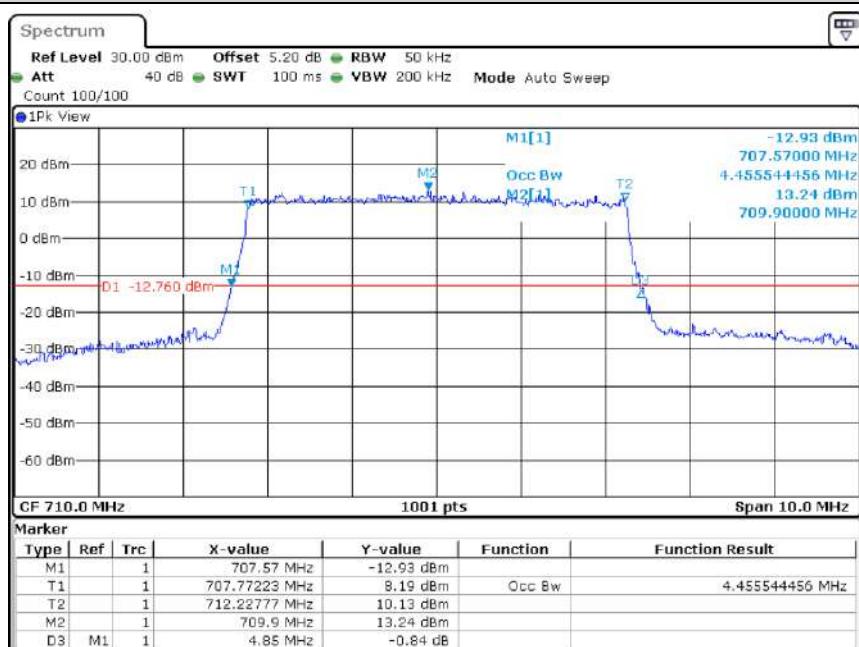
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | sgs.china@sgs.com

4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.466



Band17-5MHz-QPSK-23790-25RB#0-4.456



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

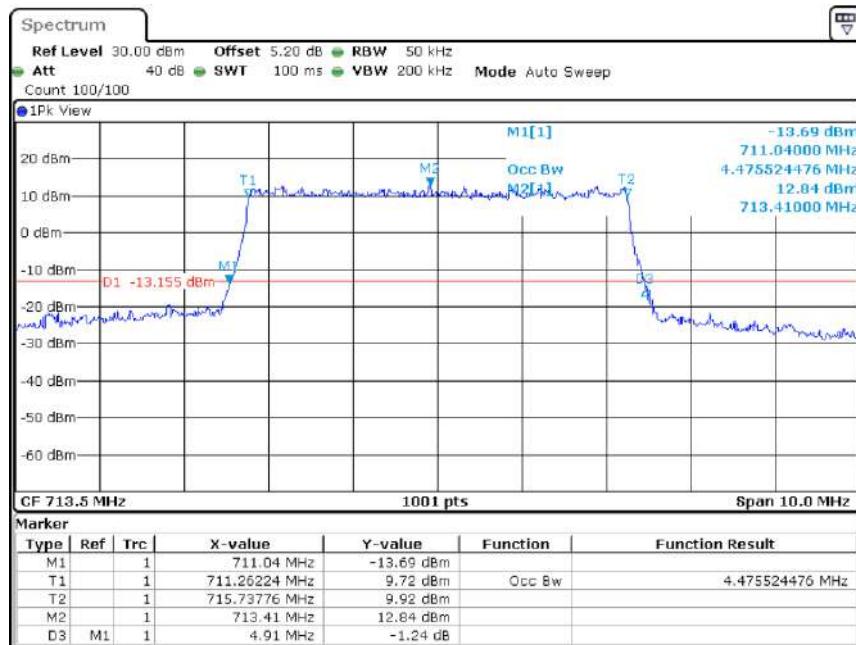
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com



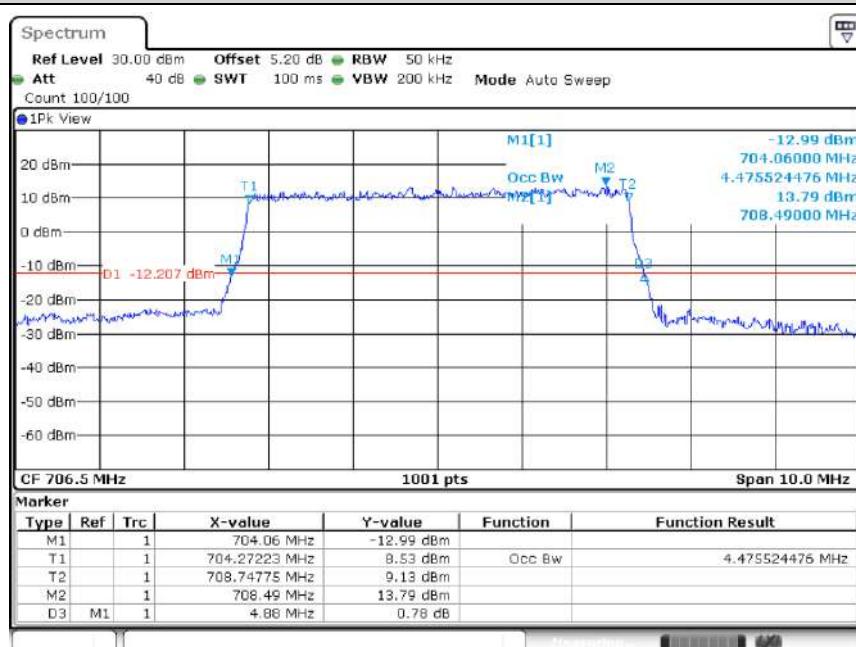
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory SGS Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755)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



Band17-5MHz-QPSK-23825-25RB#0-4.476



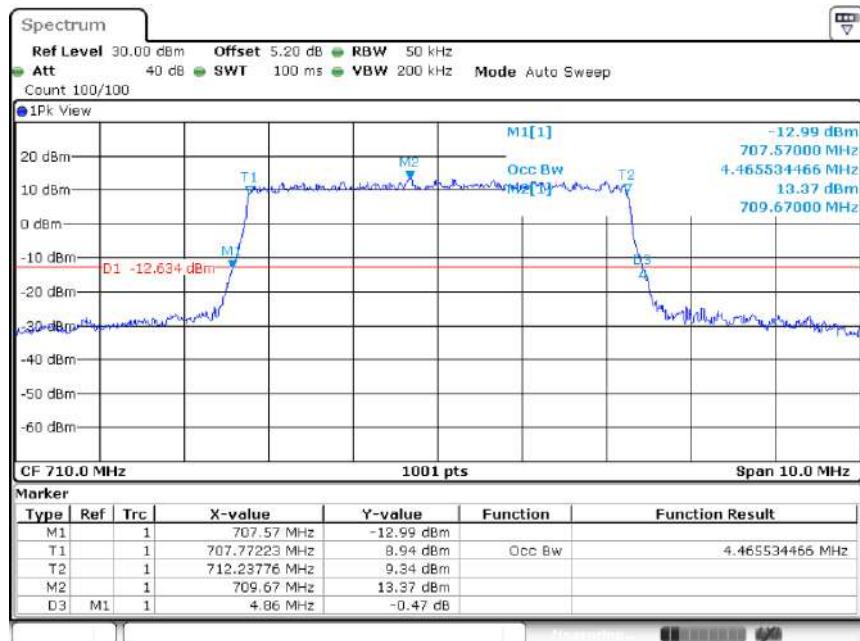
Band17-5MHz-64QAM-23755-25RB#0-4.476



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

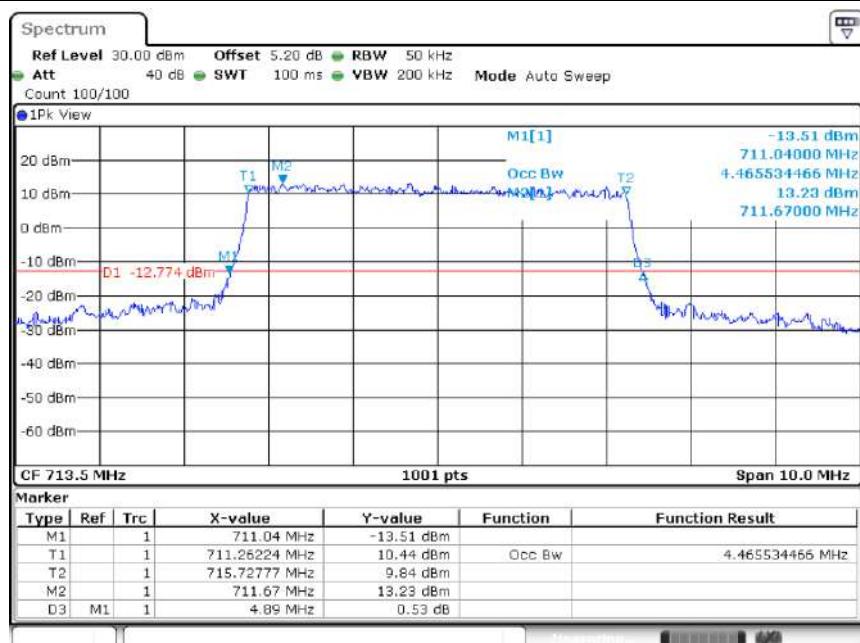
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

Band17-5MHz-64QAM-23790-25RB#0-4.466



Date: 11 AUG 2020 08:56:23

Band17-5MHz-64QAM-23825-25RB#0-4.466

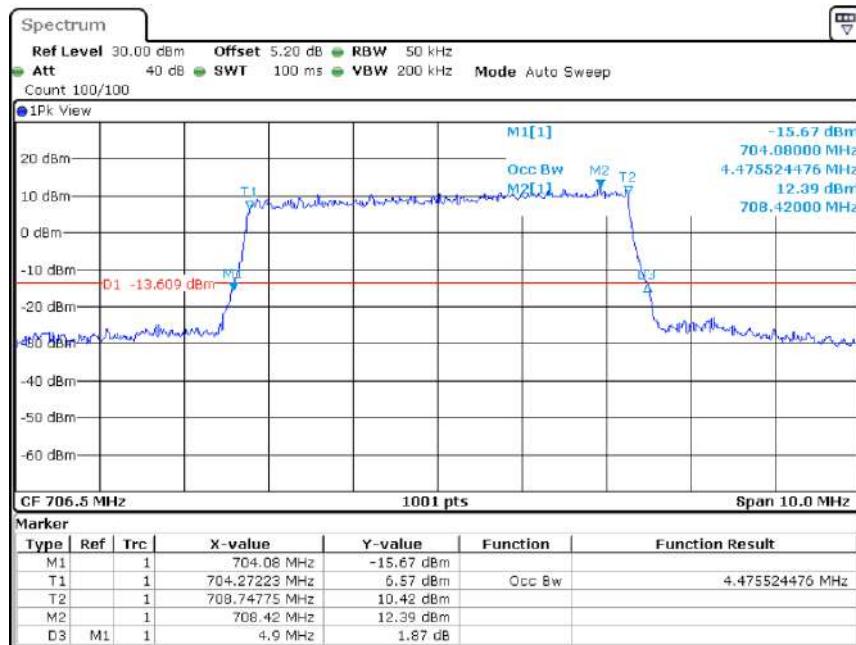


Date: 11 AUG 2020 08:56:43

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 clauses 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.

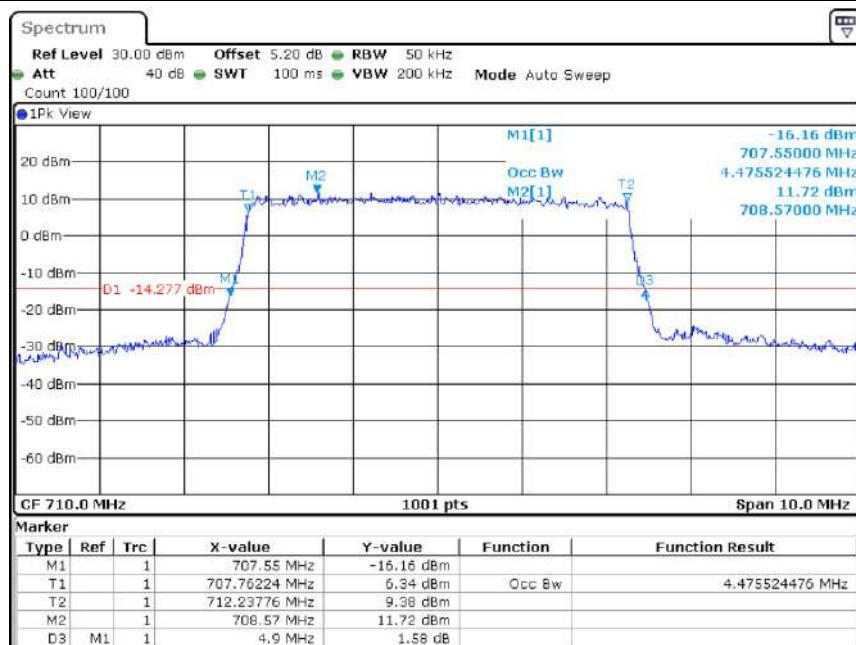
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

Band17-5MHz-16QAM-23755-25RB#0-4.476



Date: 16 JUL 2020 02:15:16

Band17-5MHz-16QAM-23790-25RB#0-4.476

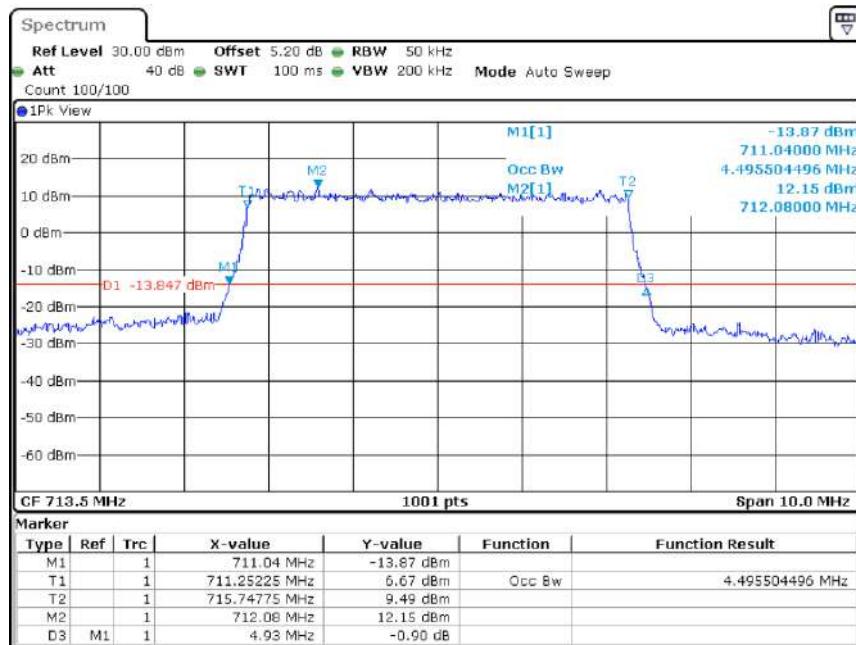


Date: 16.JUL.2020 02:15:55

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.

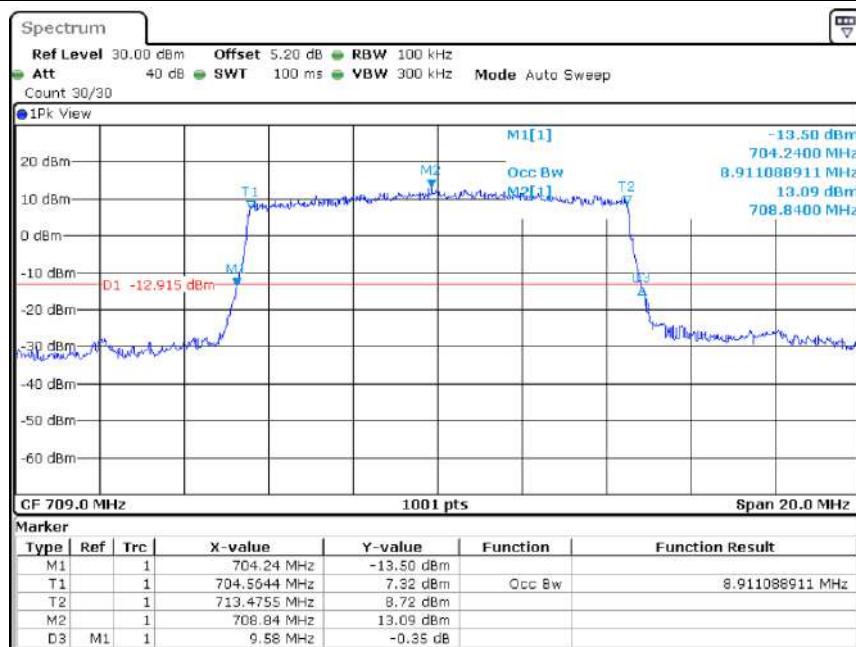


Band17-5MHz-16QAM-23825-25RB#0-4.496



Date: 16 JUL 2020 02:16:35

Band17-10MHz-QPSK-23780-50RB#0-8.911



Date: 16 JUL 2020 02:16:53

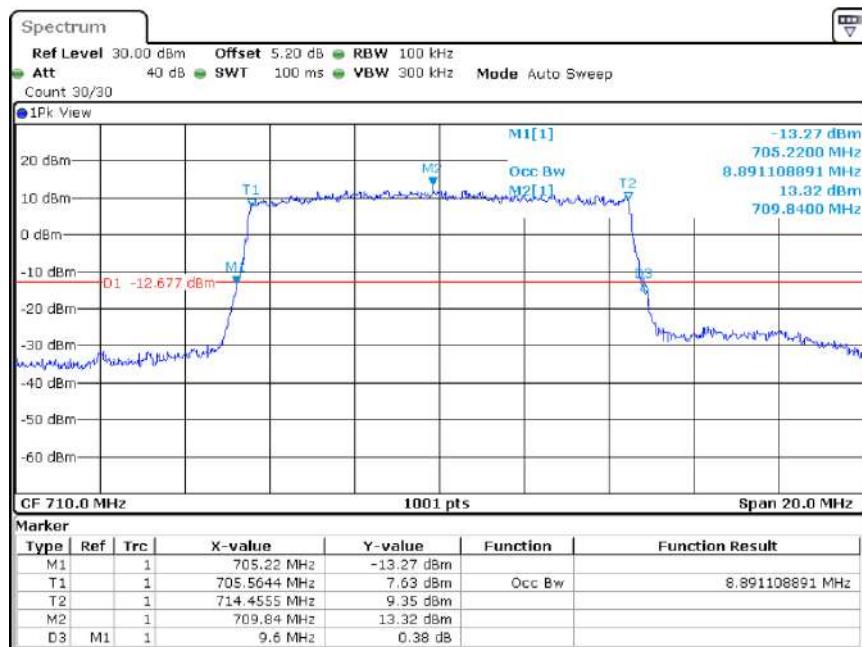
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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

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



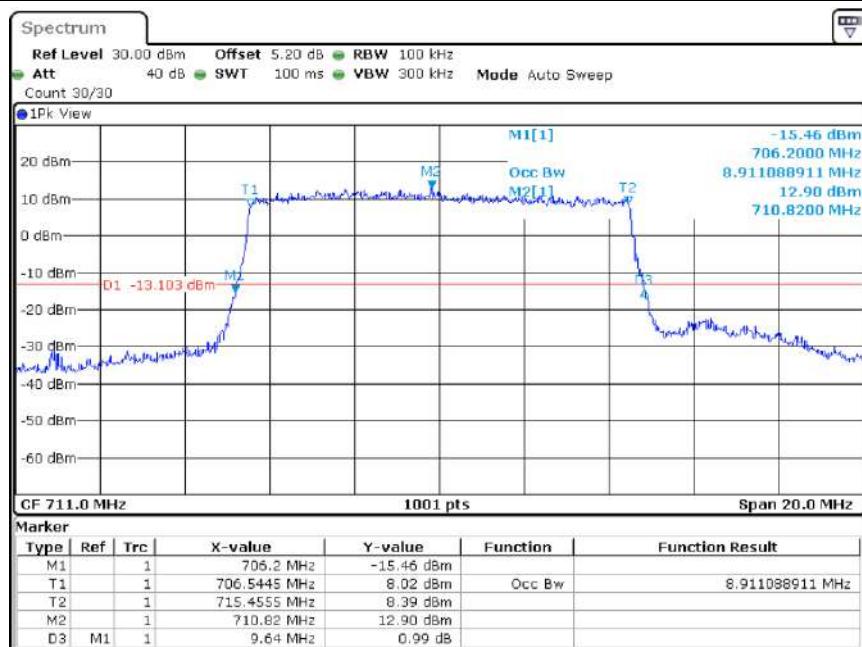
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory SGS Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 | 邮编: 518057 | (86-755) 26012053 f (86-755)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

Band17-10MHz-QPSK-23790-50RB#0-8.891



Date: 16.JUL.2020 02:17:19

Band17-10MHz-QPSK-23800-50RB#0-8.911

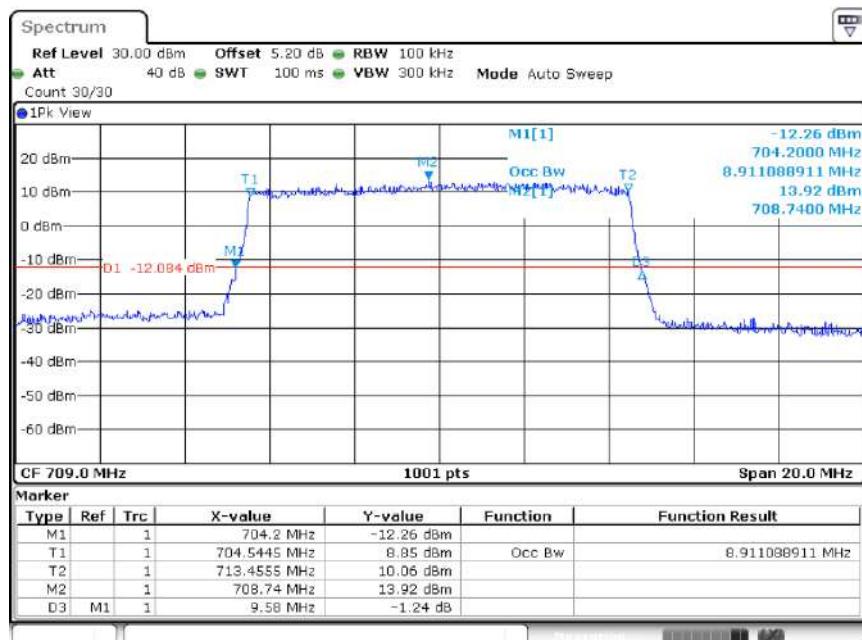


Date: 16.JUL.2020 02:17:44

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-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.

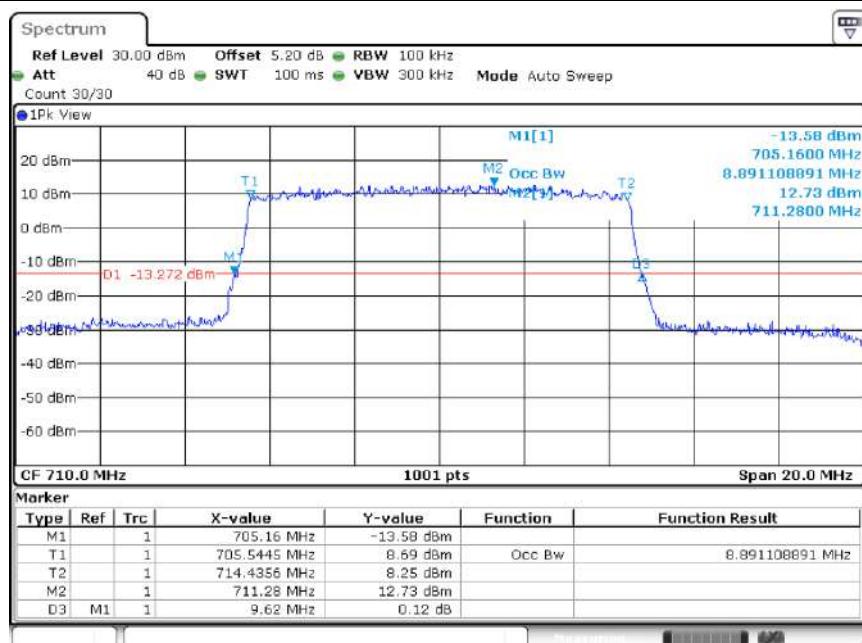
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

Band17-10MHz-64QAM-23780-50RB#0-8.911



Date: 11.AUG.2020 08:57:03

Band17-10MHz-64QAM-23790-50RB#0-8.891

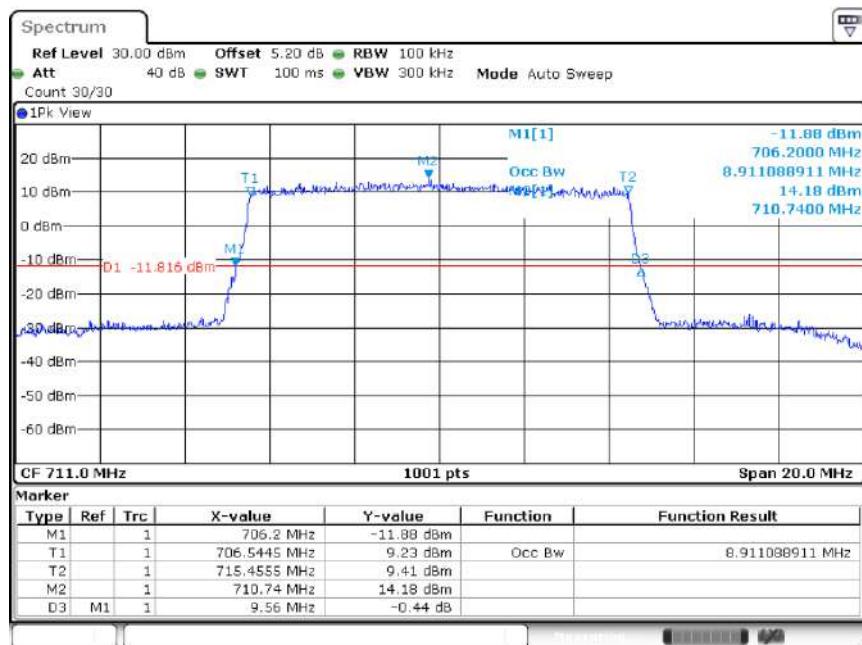


Date: 11.AUG.2020 08:57:16

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.

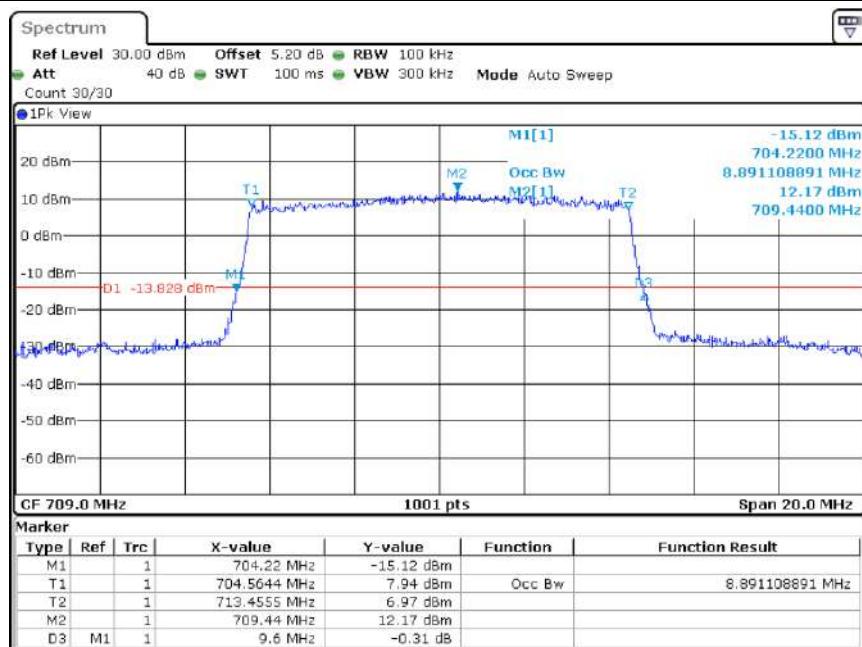
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

Band17-10MHz-64QAM-23800-50RB#0-8.911



Date: 11.AUG.2020 08:57:29

Band17-10MHz-16QAM-23780-50RB#0-8.891

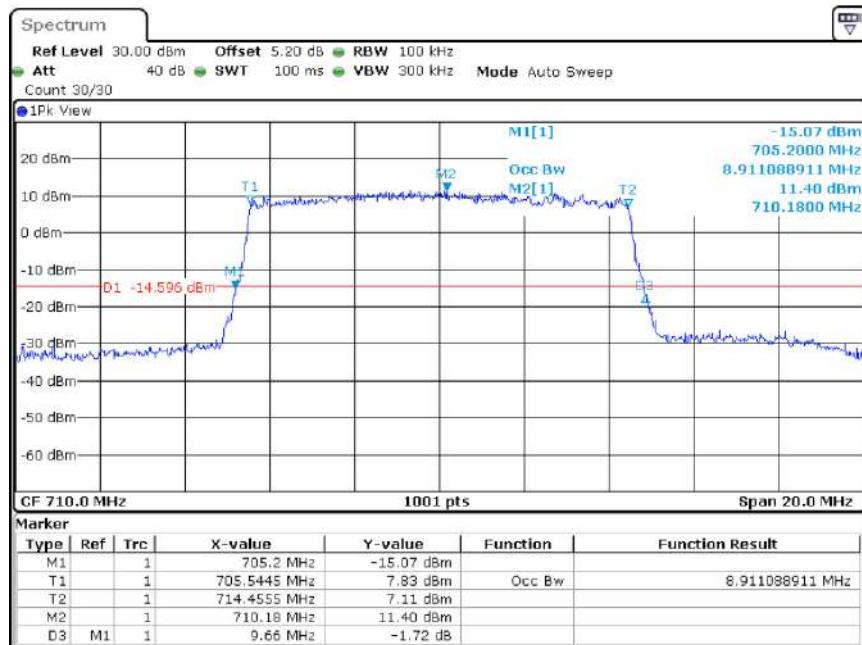


Date: 16.JUL.2020 02:17:06

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

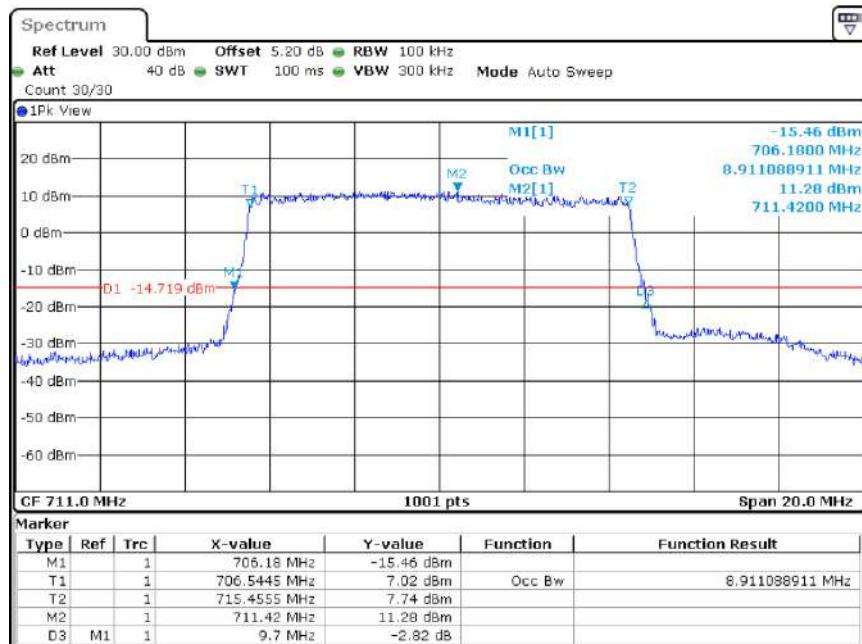
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band17-10MHz-16QAM-23790-50RB#0-8.911



Date: 16.JUL.2020 02:17:31

Band17-10MHz-16QAM-23800-50RB#0-8.911



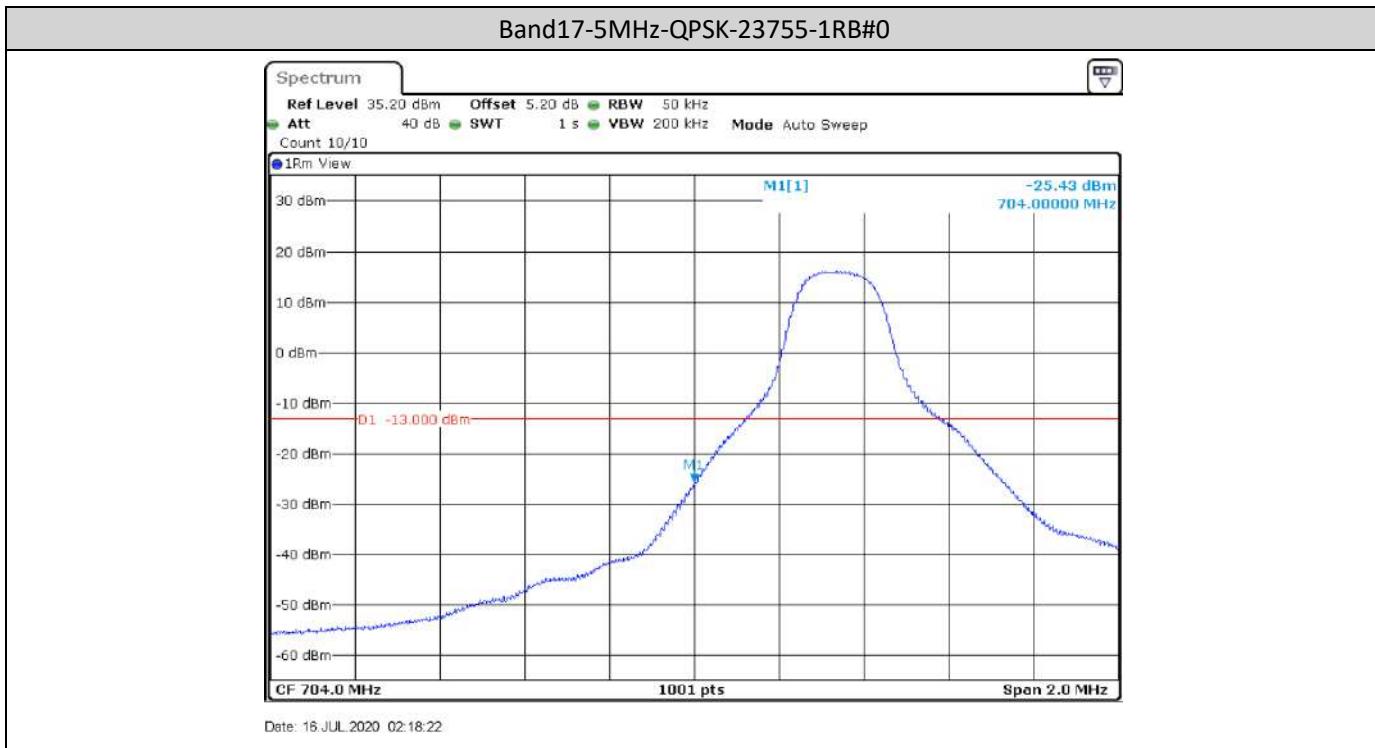
Date: 16.JUL.2020 02:17:57

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 clauses 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

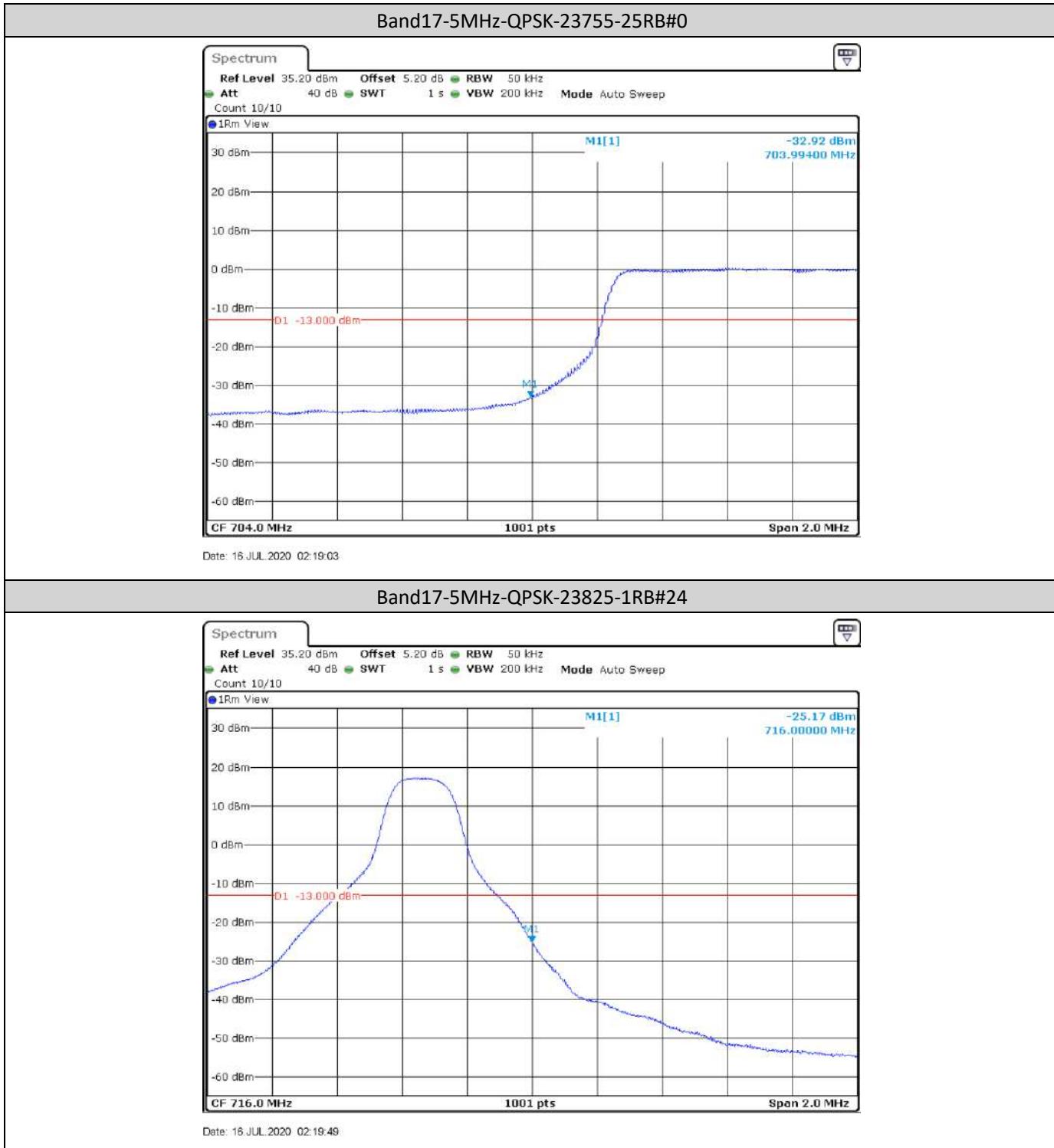
5. Band Edge Compliance

5.1. Test Plots



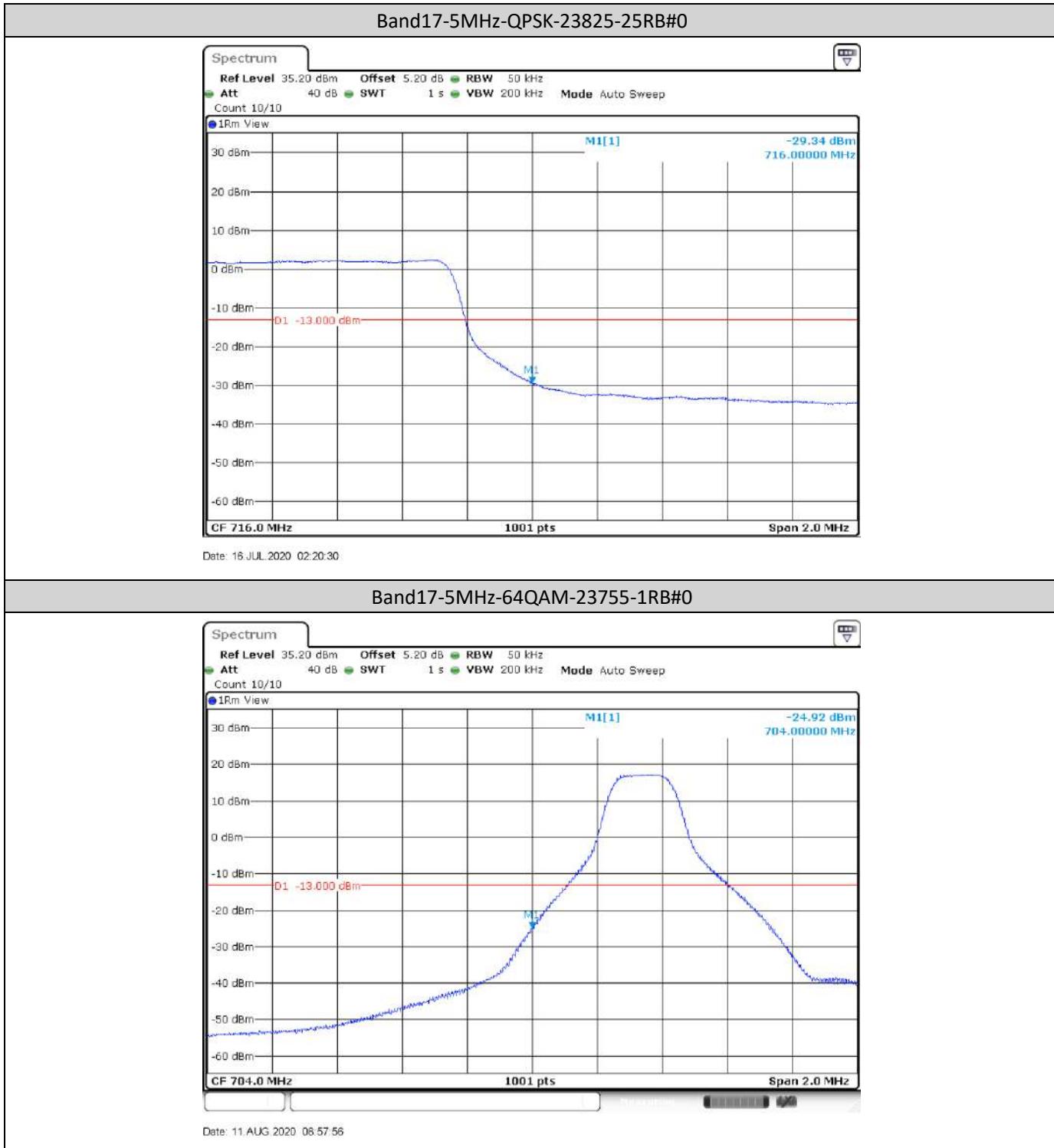
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



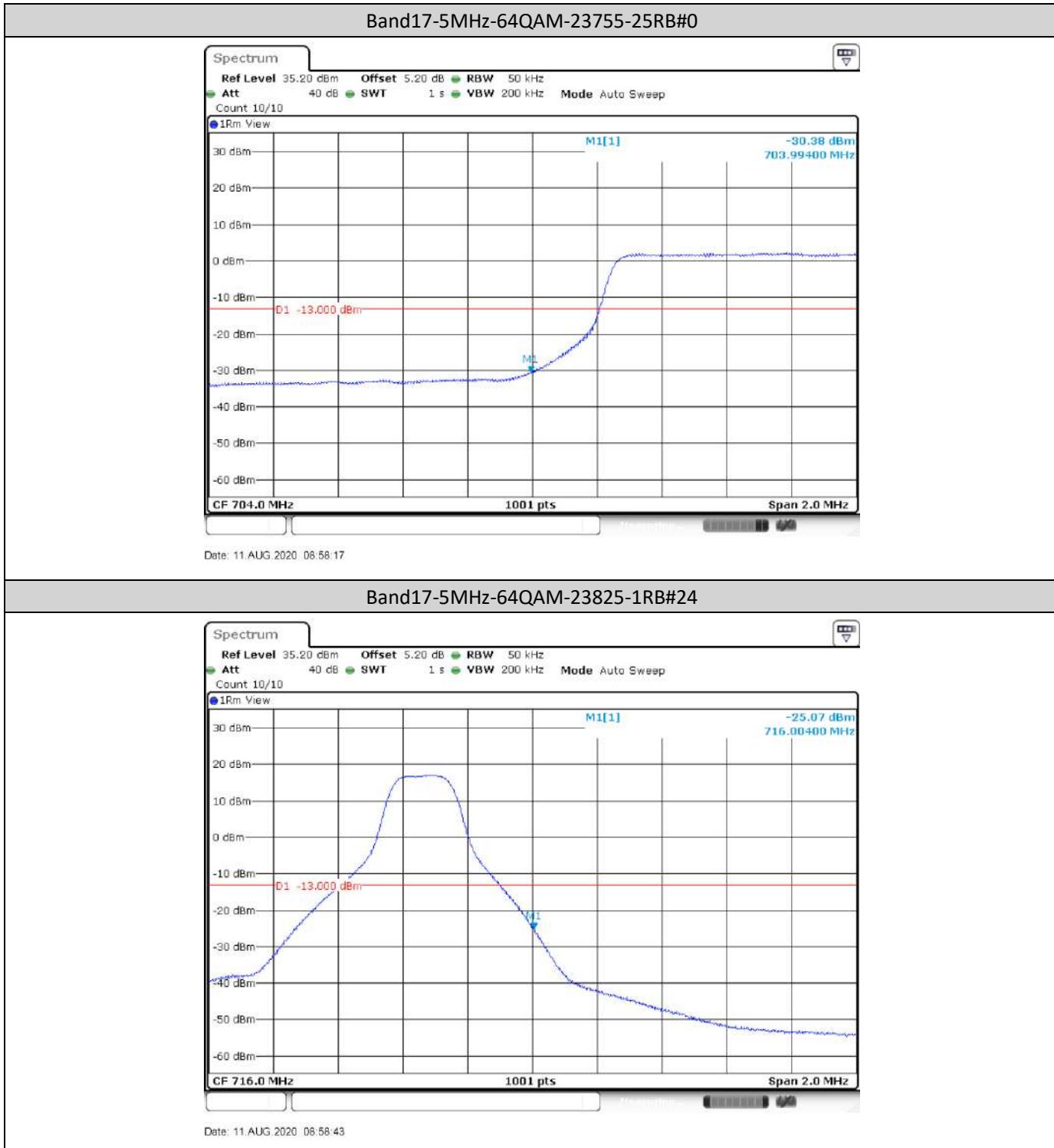
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



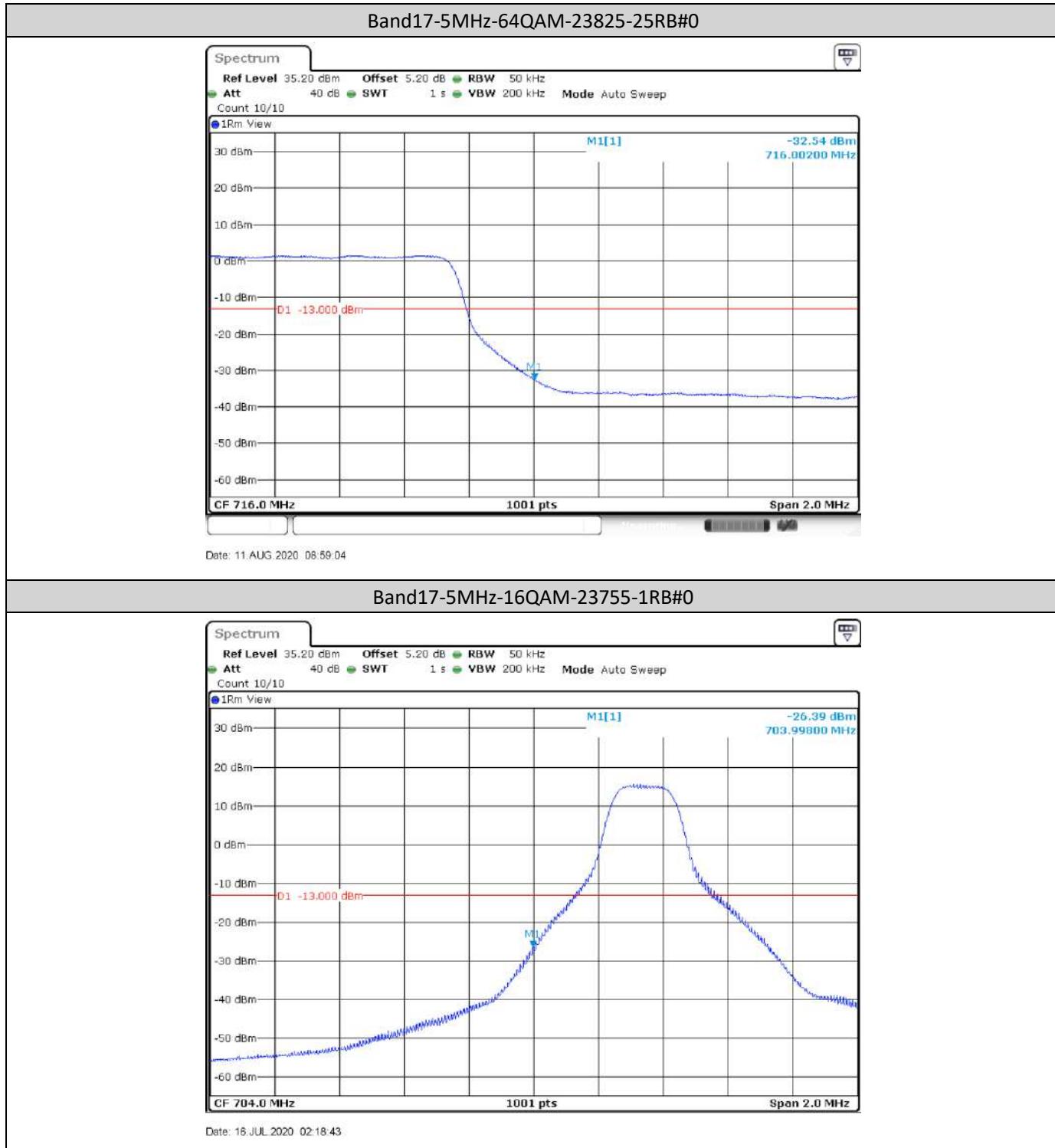
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



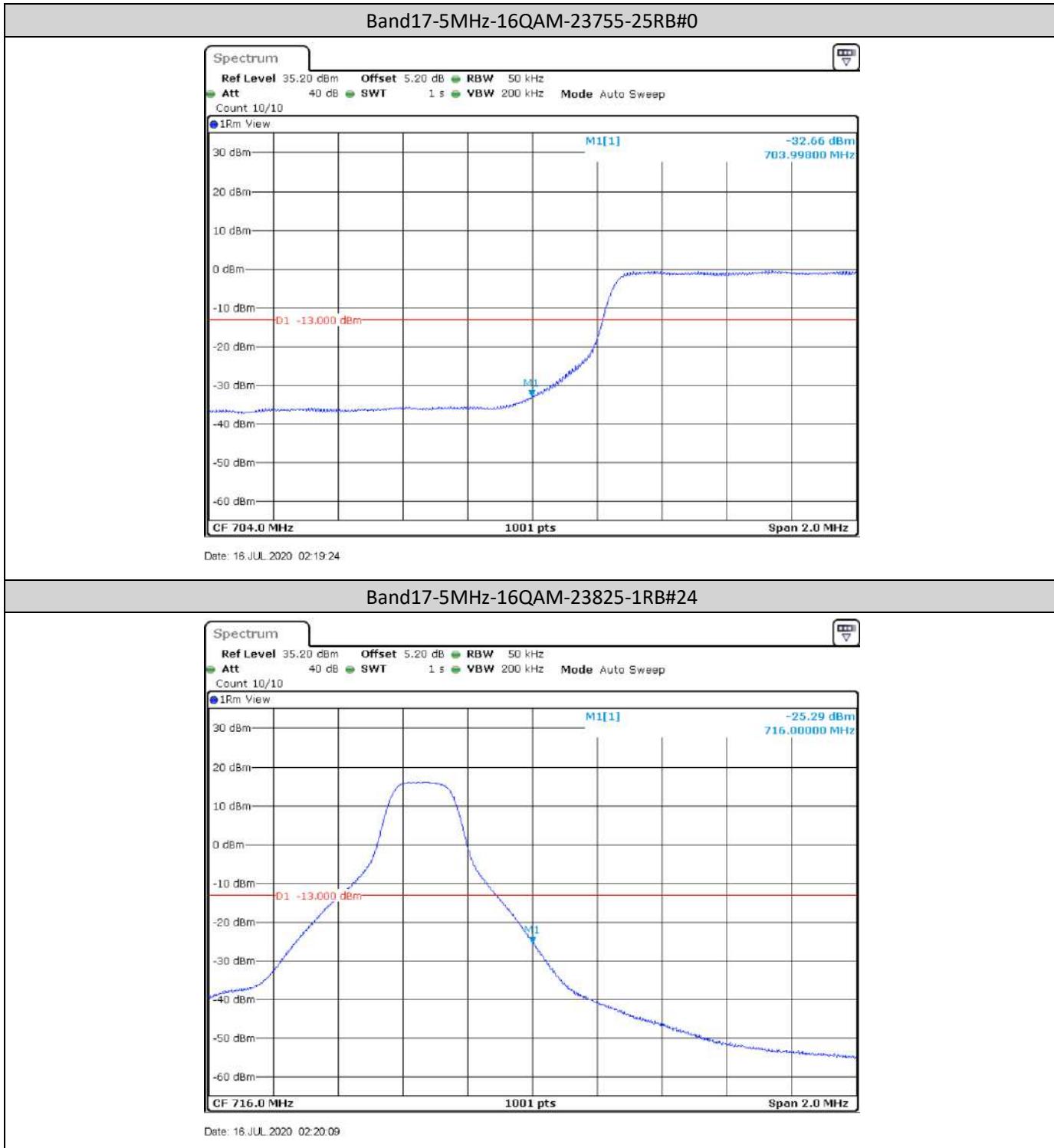
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



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 clauses 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



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 clauses 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

Band17-5MHz-16QAM-23825-25RB#0



Date: 16 JUL 2020 02:20:50

Band17-10MHz-QPSK-23780-1RB#0



Date: 16 JUL 2020 02:21:16

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/Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses 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

Band17-10MHz-QPSK-23780-50RB#0



Date: 16 JUL 2020 02:21:57

Band17-10MHz-QPSK-23800-1RB#49

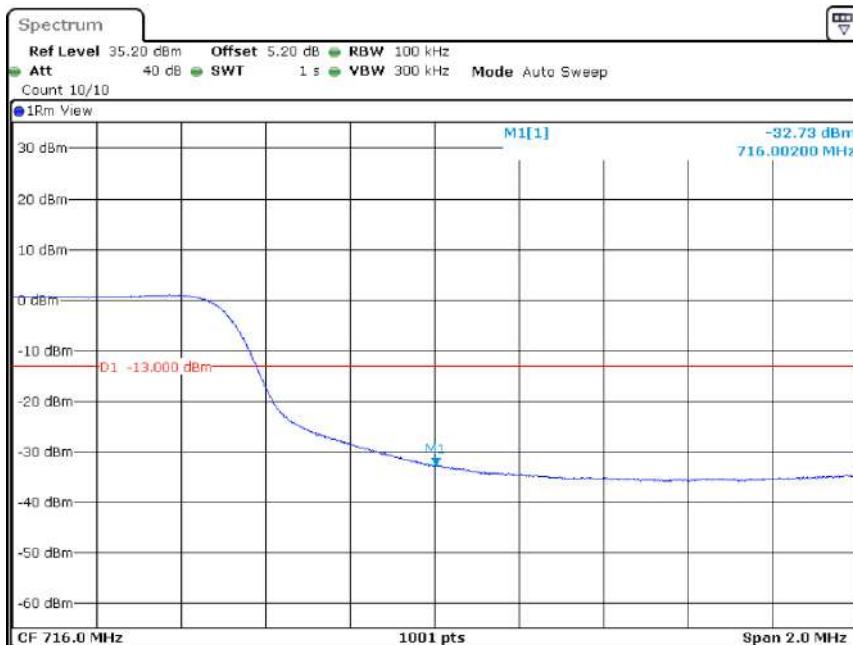


Date: 16 JUL 2020 02:22:42

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

Band17-10MHz-QPSK-23800-50RB#0



Date: 16 JUL 2020 02:23:23

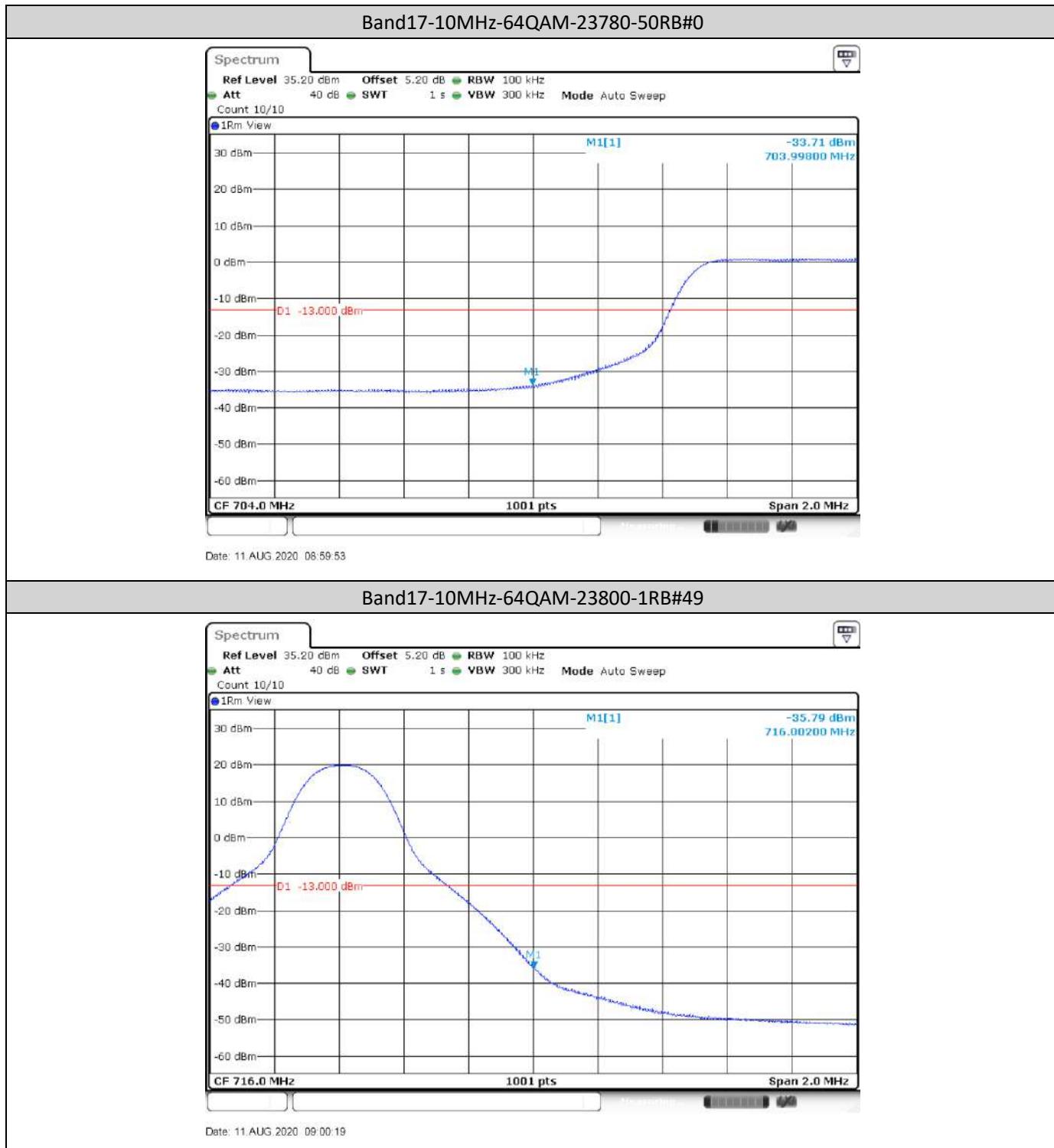
Band17-10MHz-64QAM-23780-1RB#0



Date: 11 AUG 2020 08:59:31

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/Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses 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



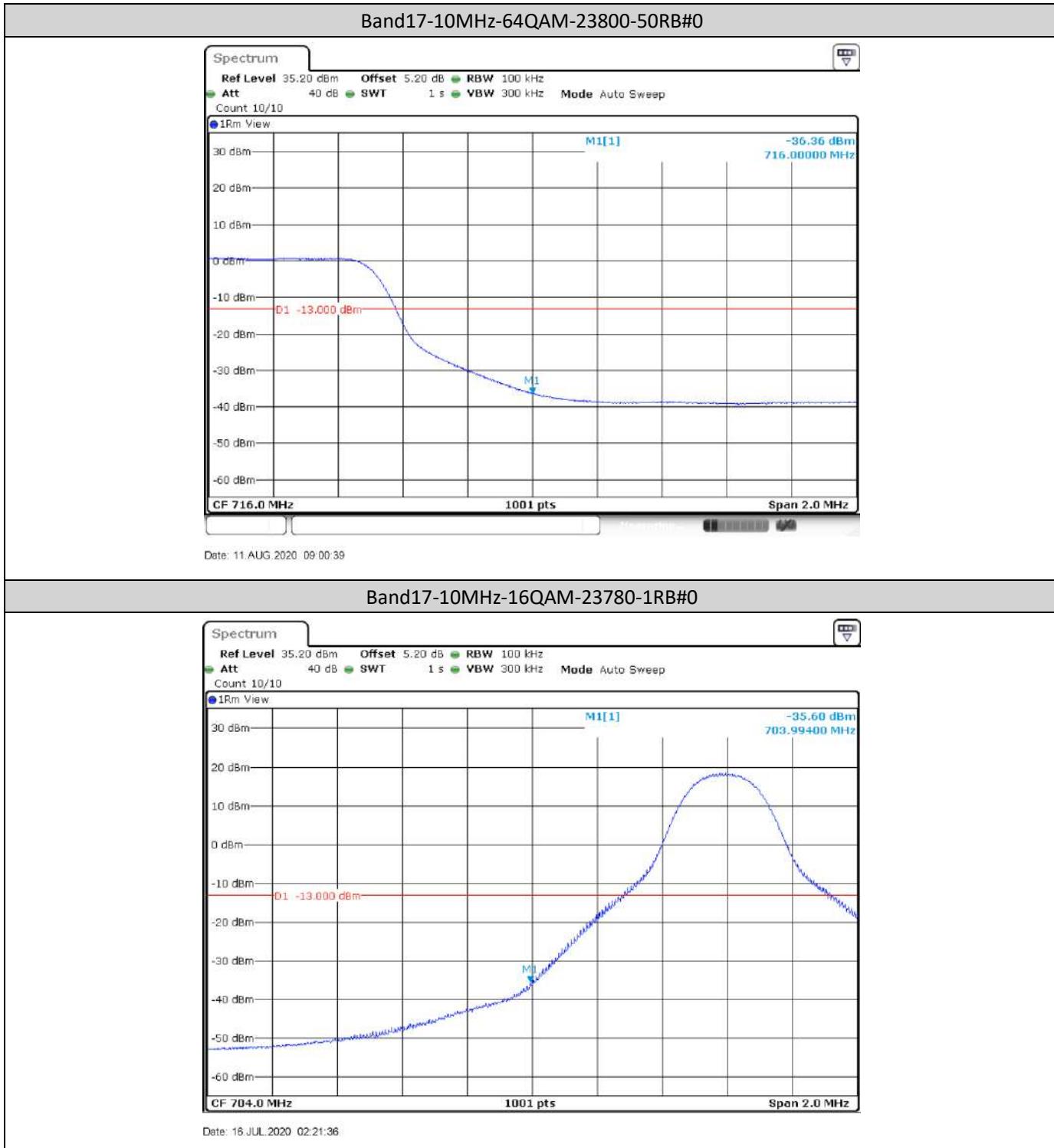
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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

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



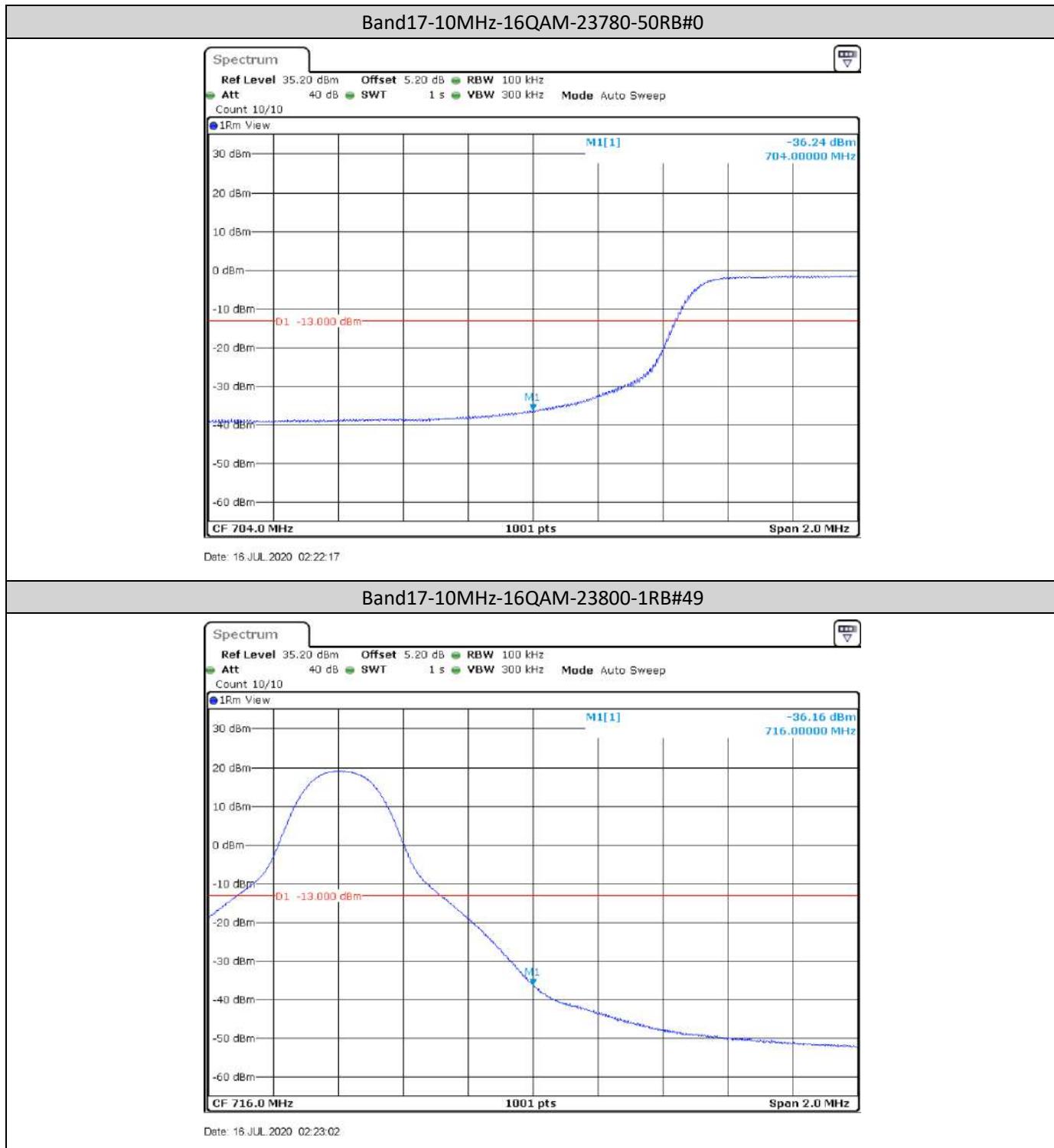
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory SGS Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057
中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | www.sgsgroup.com.cn
sgs.china@sgs.com



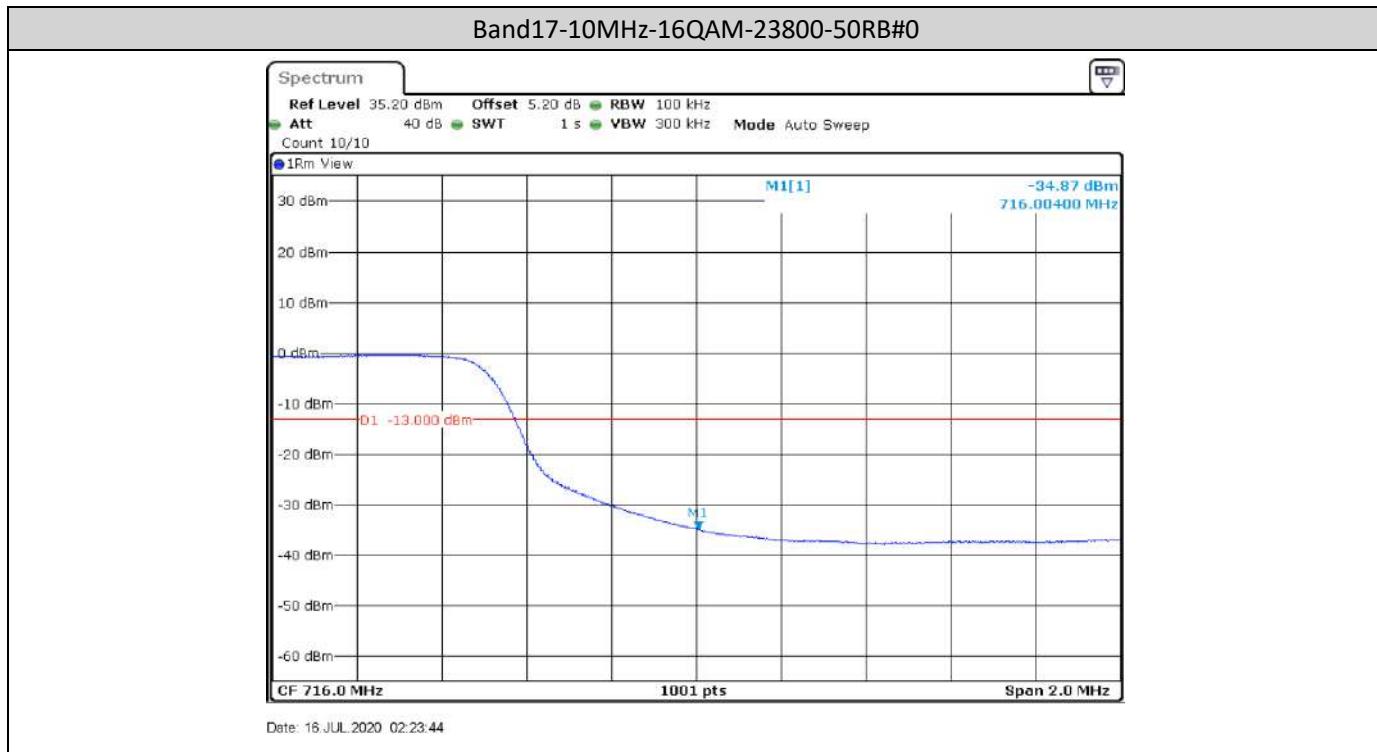
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



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 clauses 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.Dcccheck@sgs.com



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 clauses defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



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

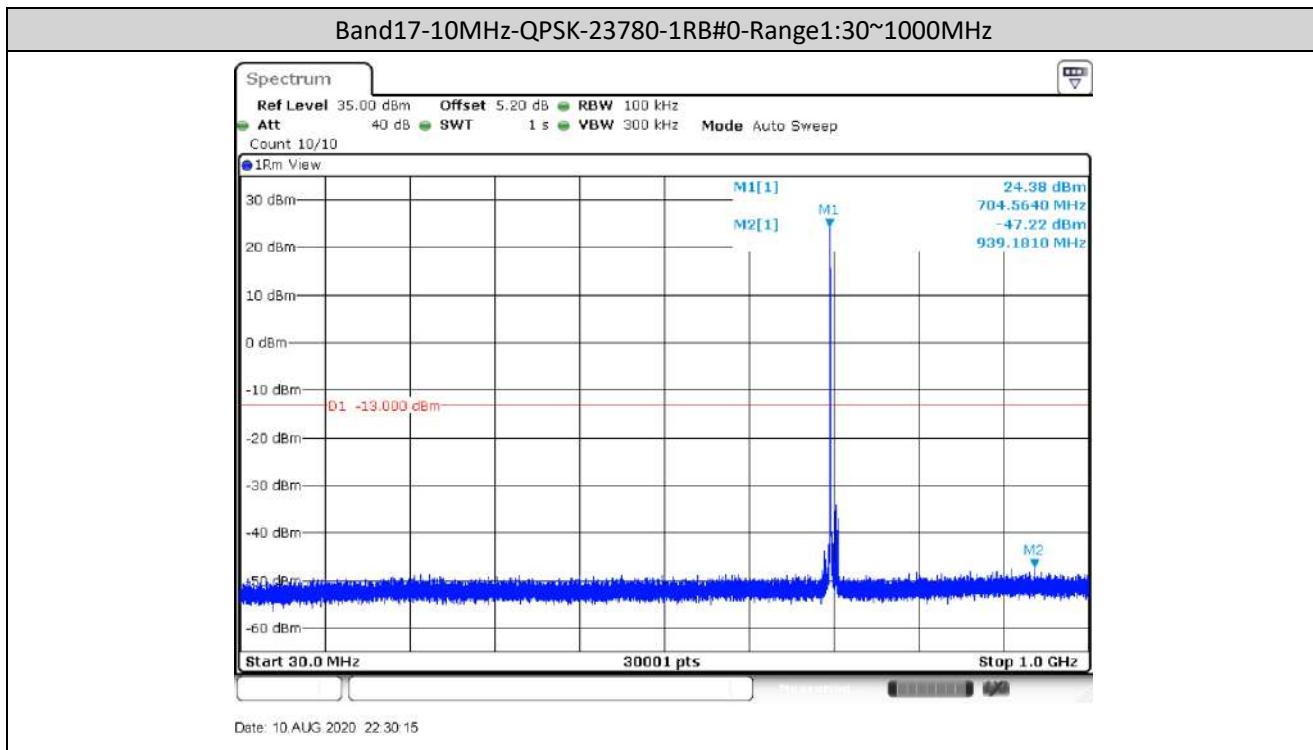
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | sgs.china@sgs.com

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

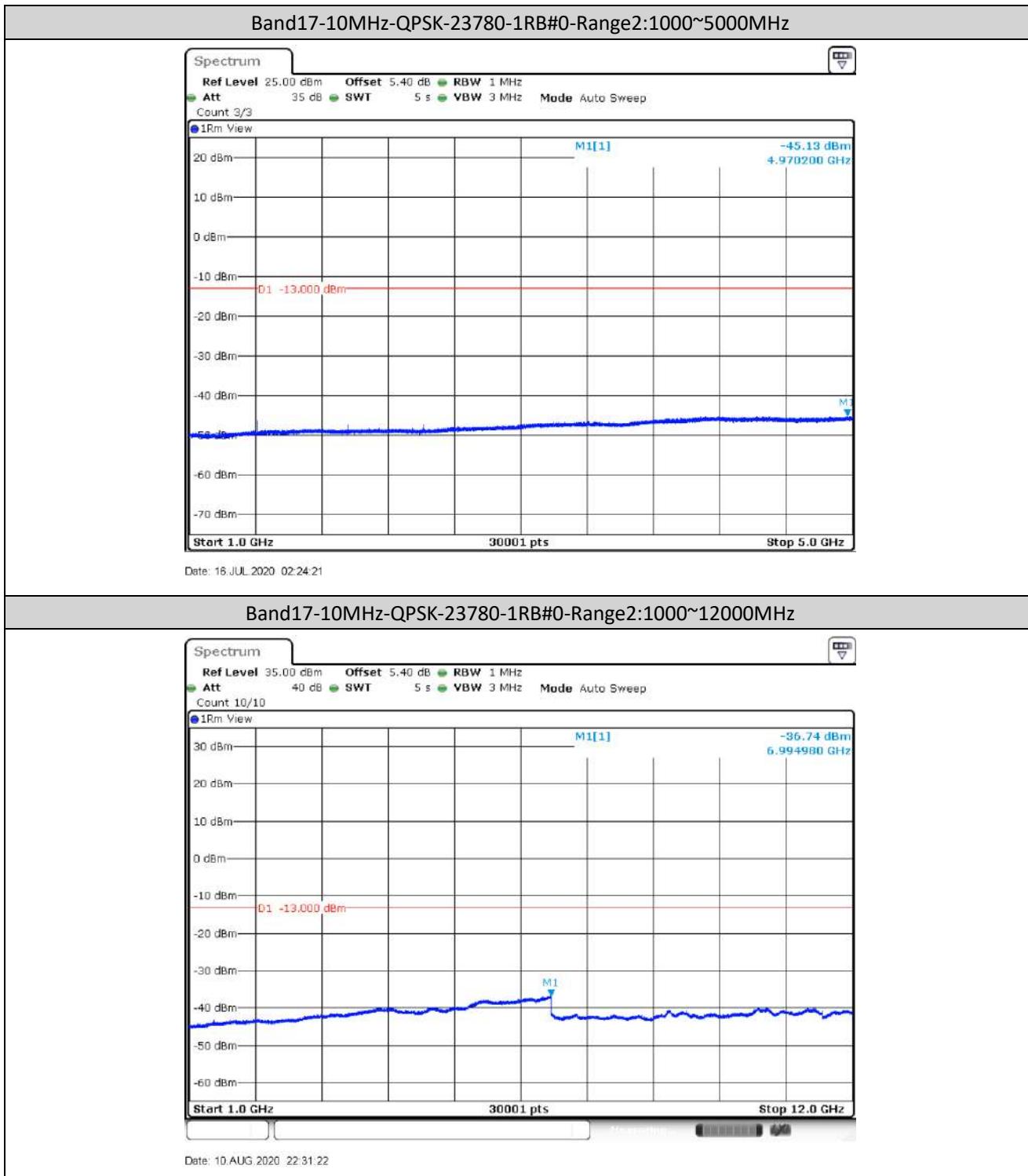
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



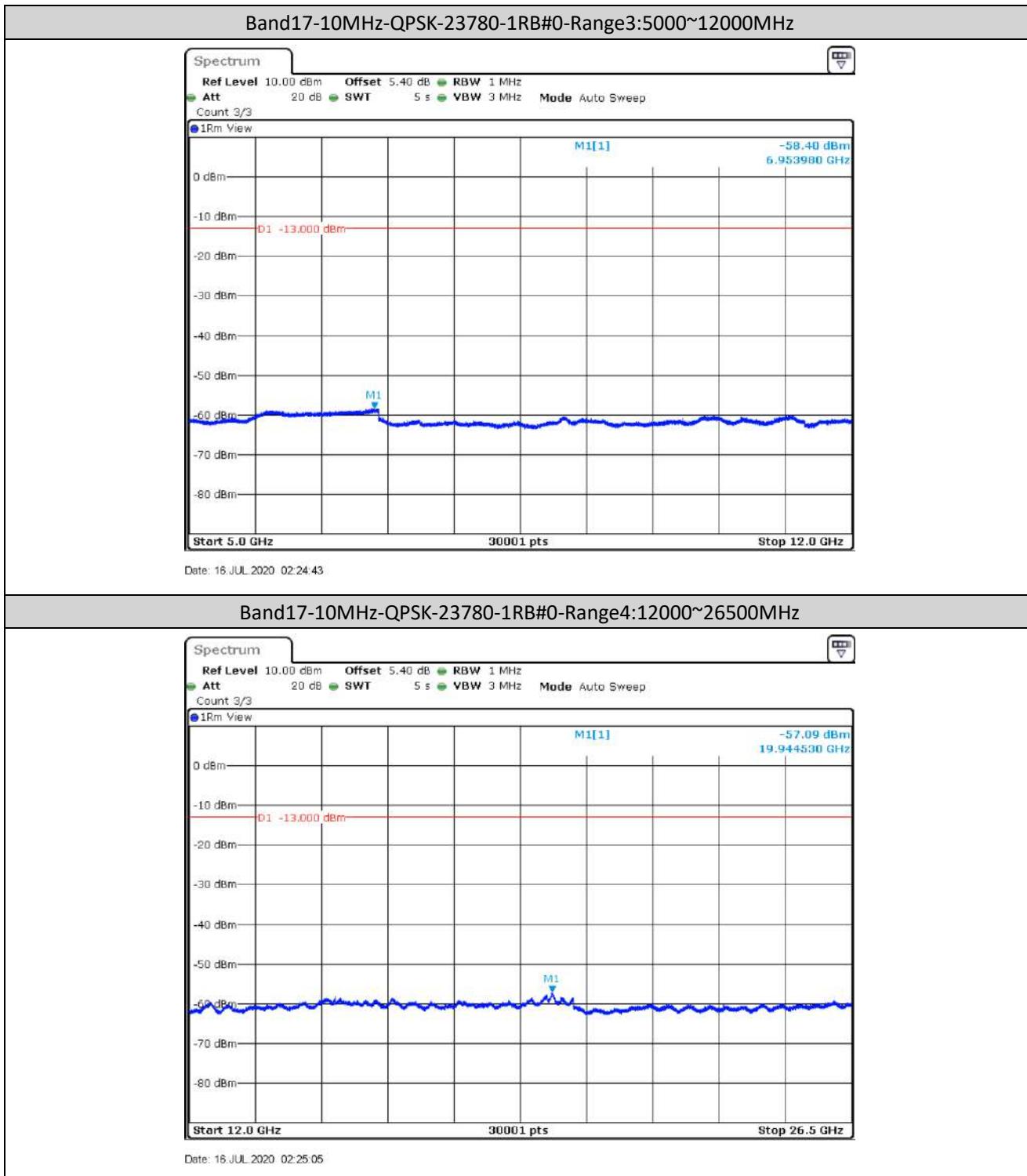
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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

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



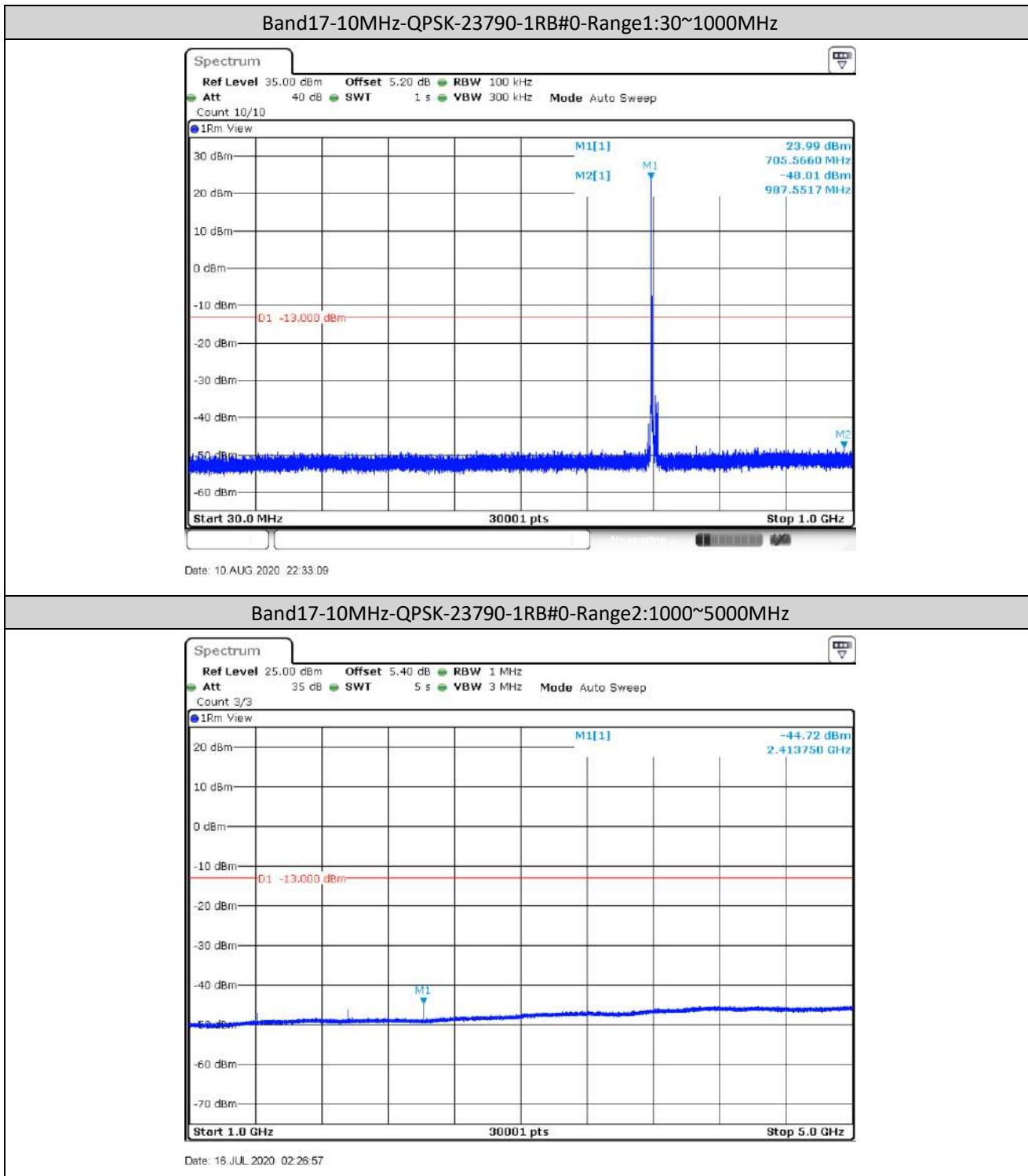
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



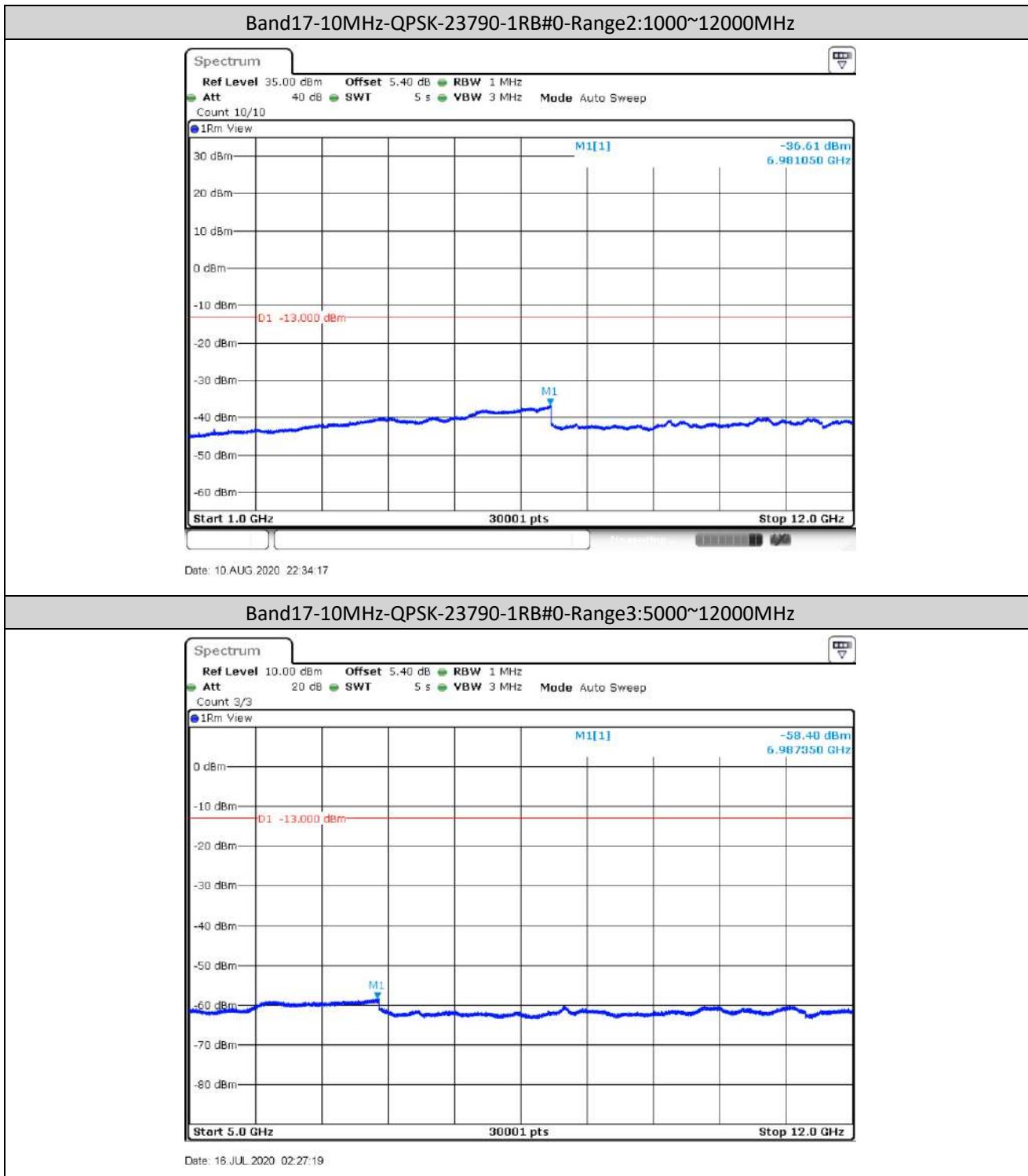
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



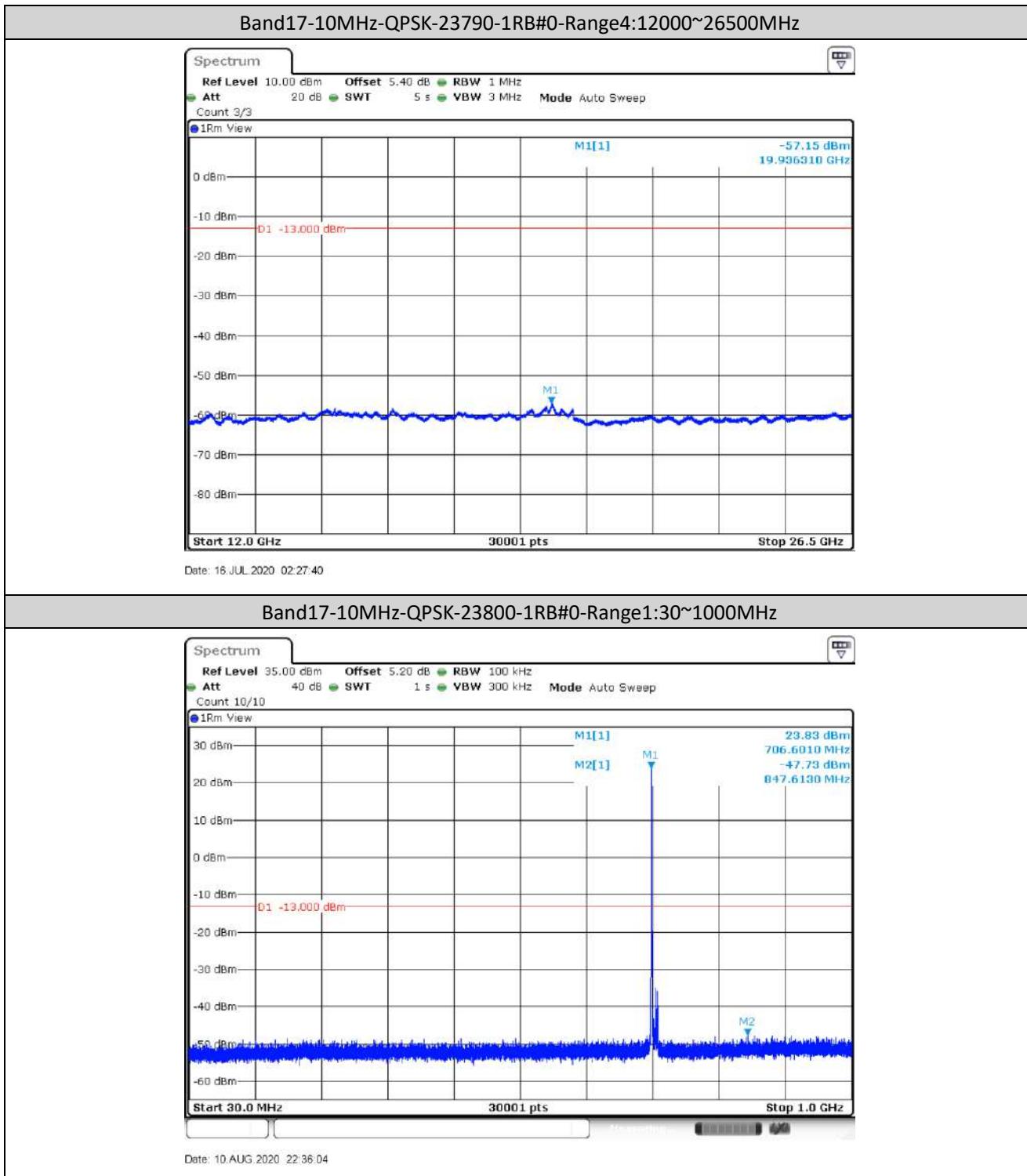
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



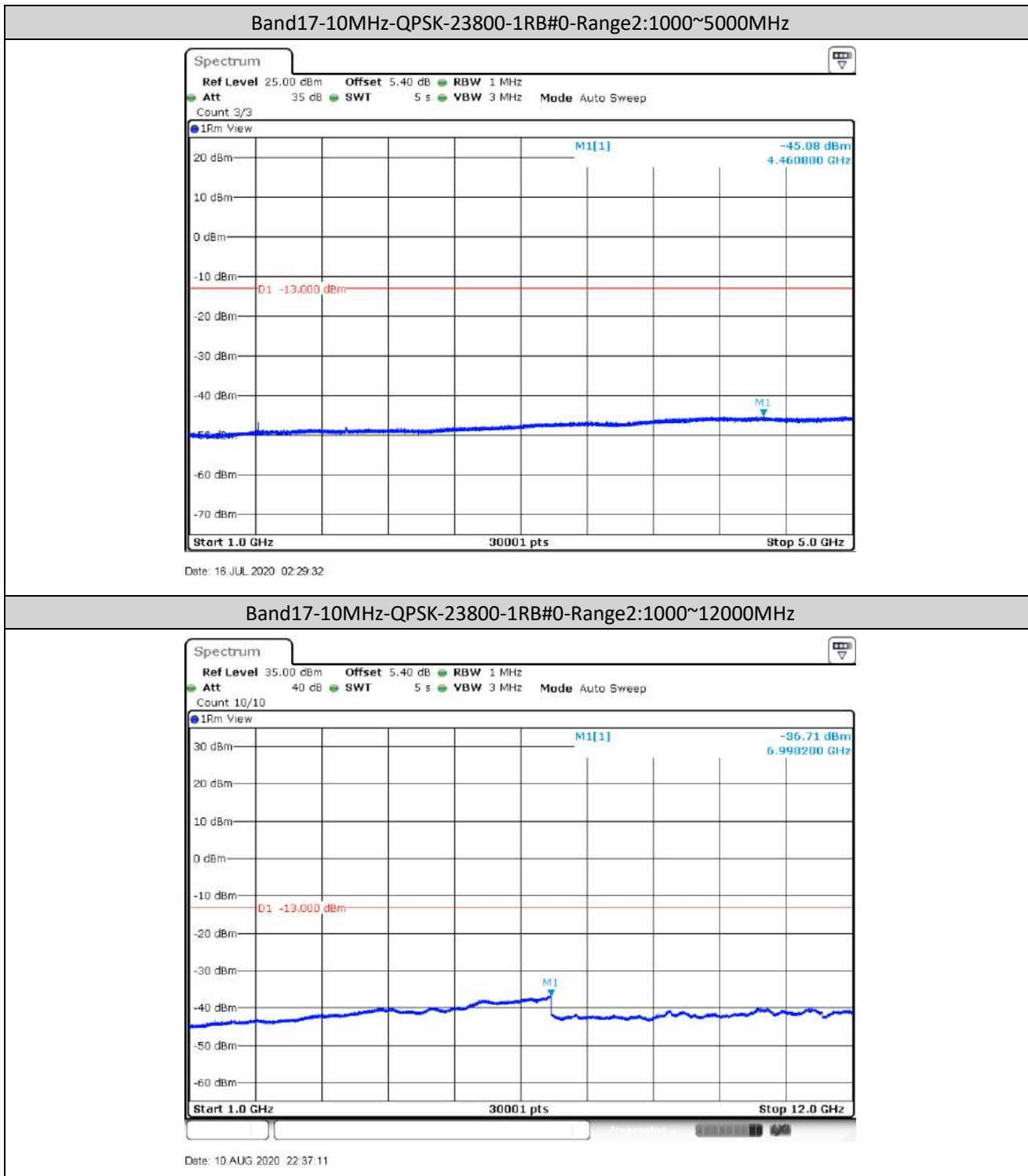
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



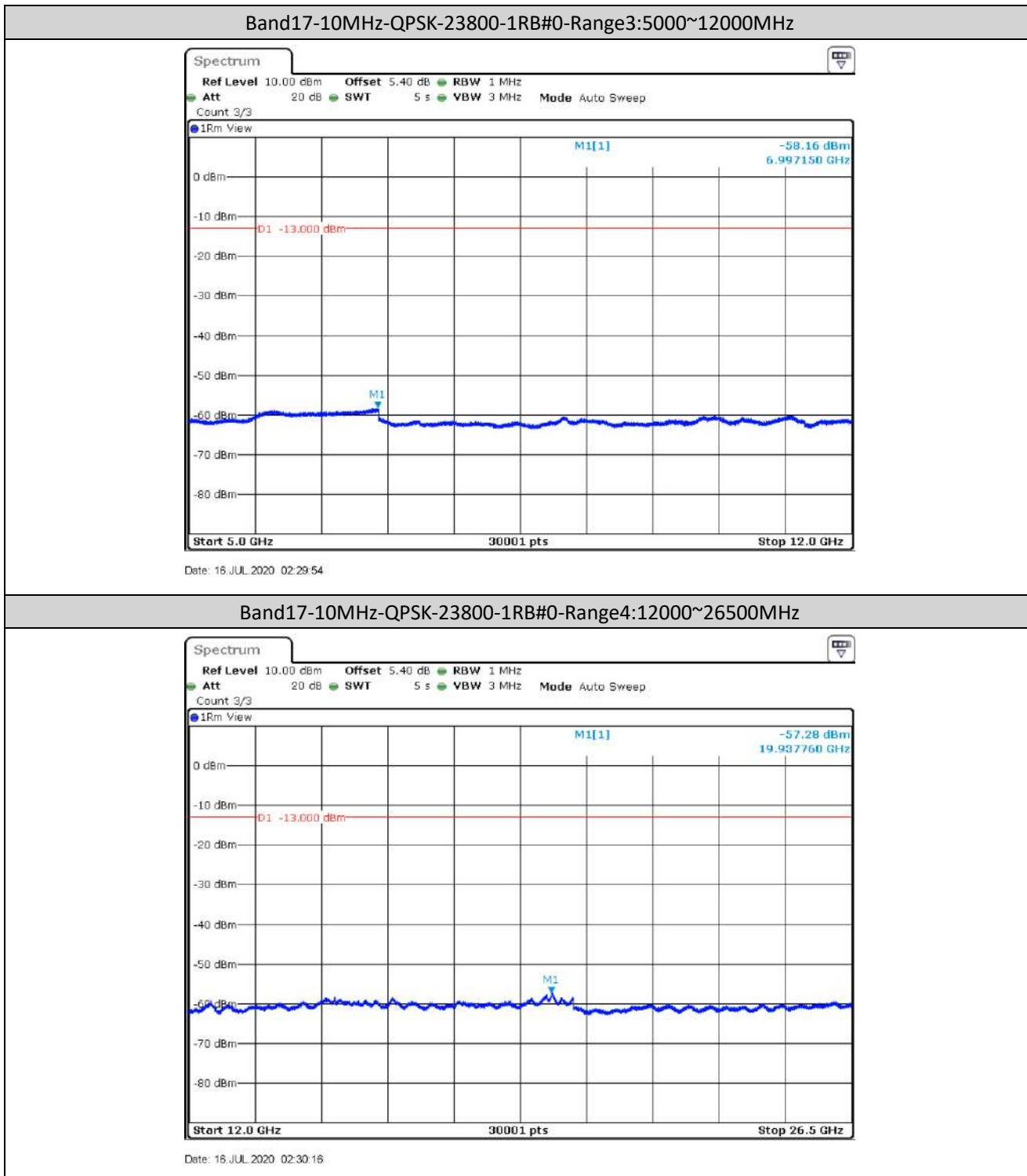
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



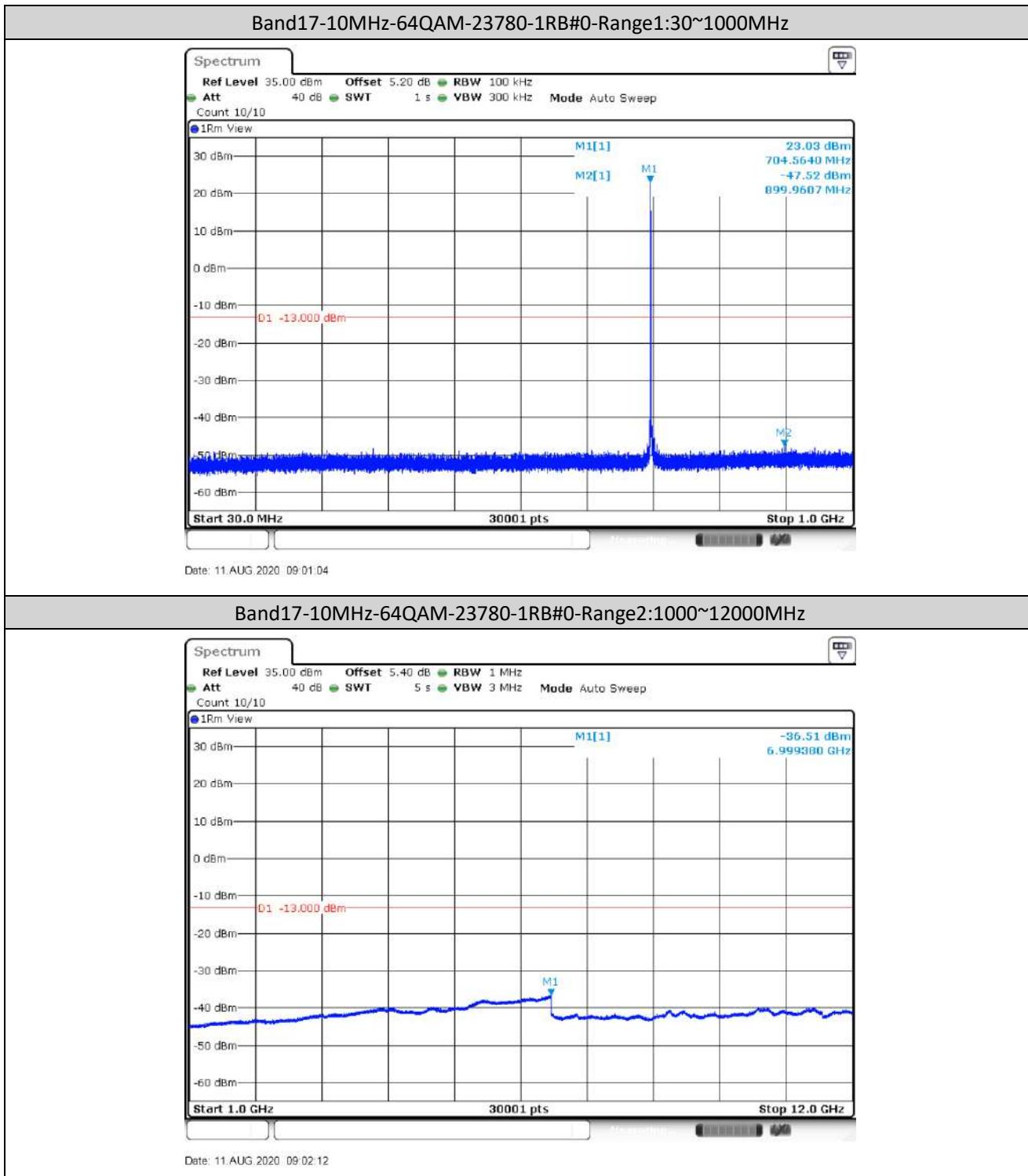
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



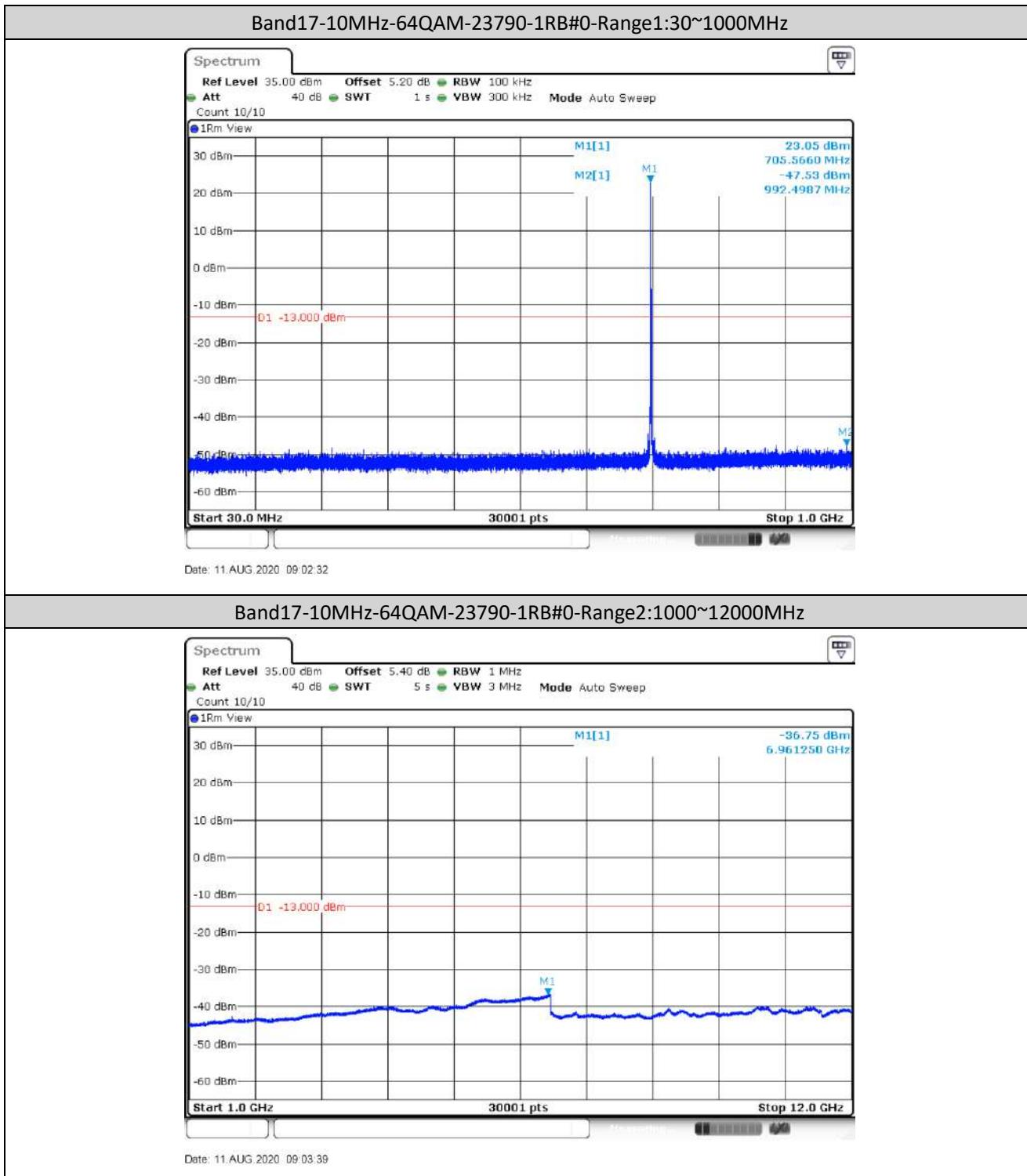
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



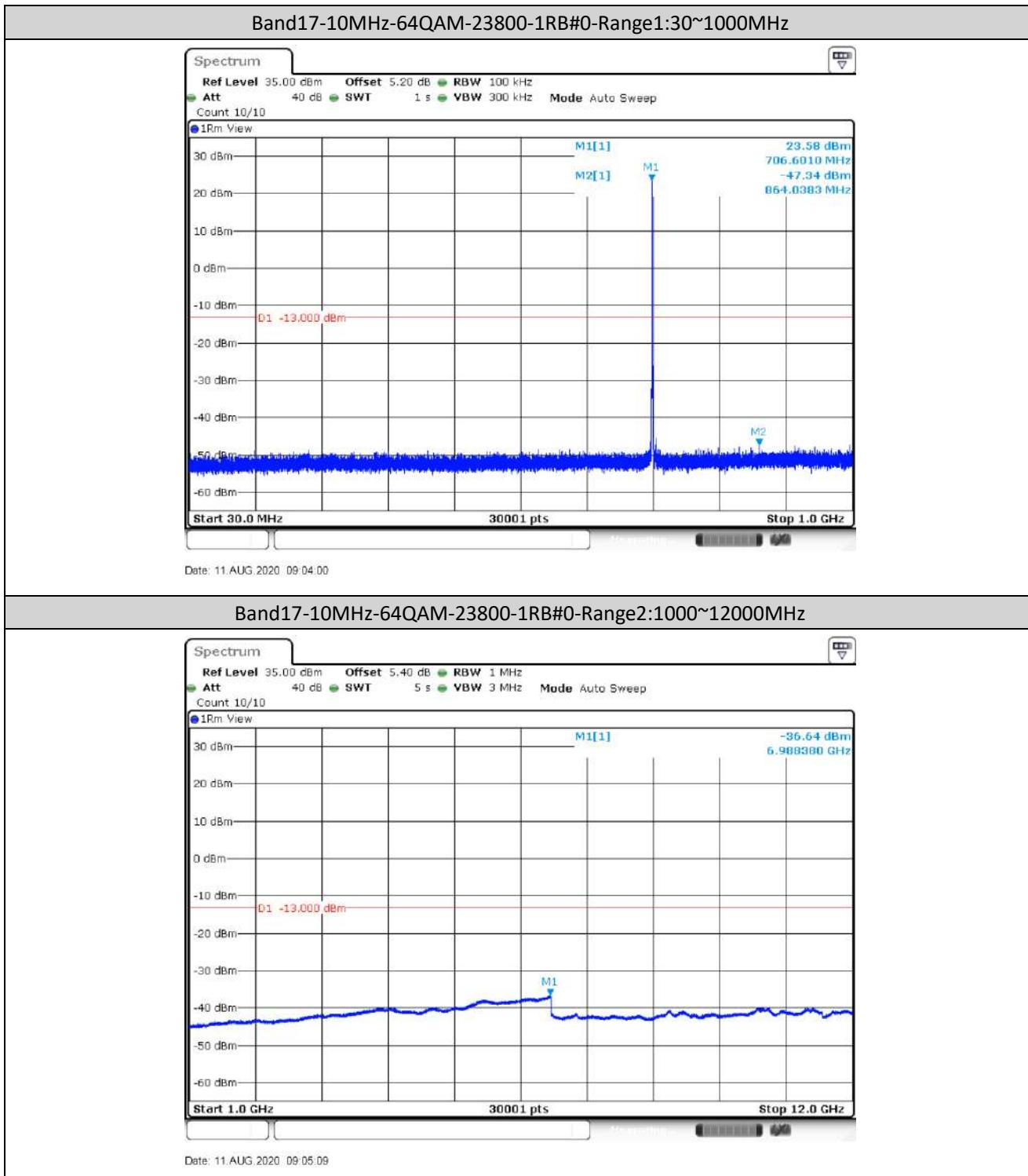
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



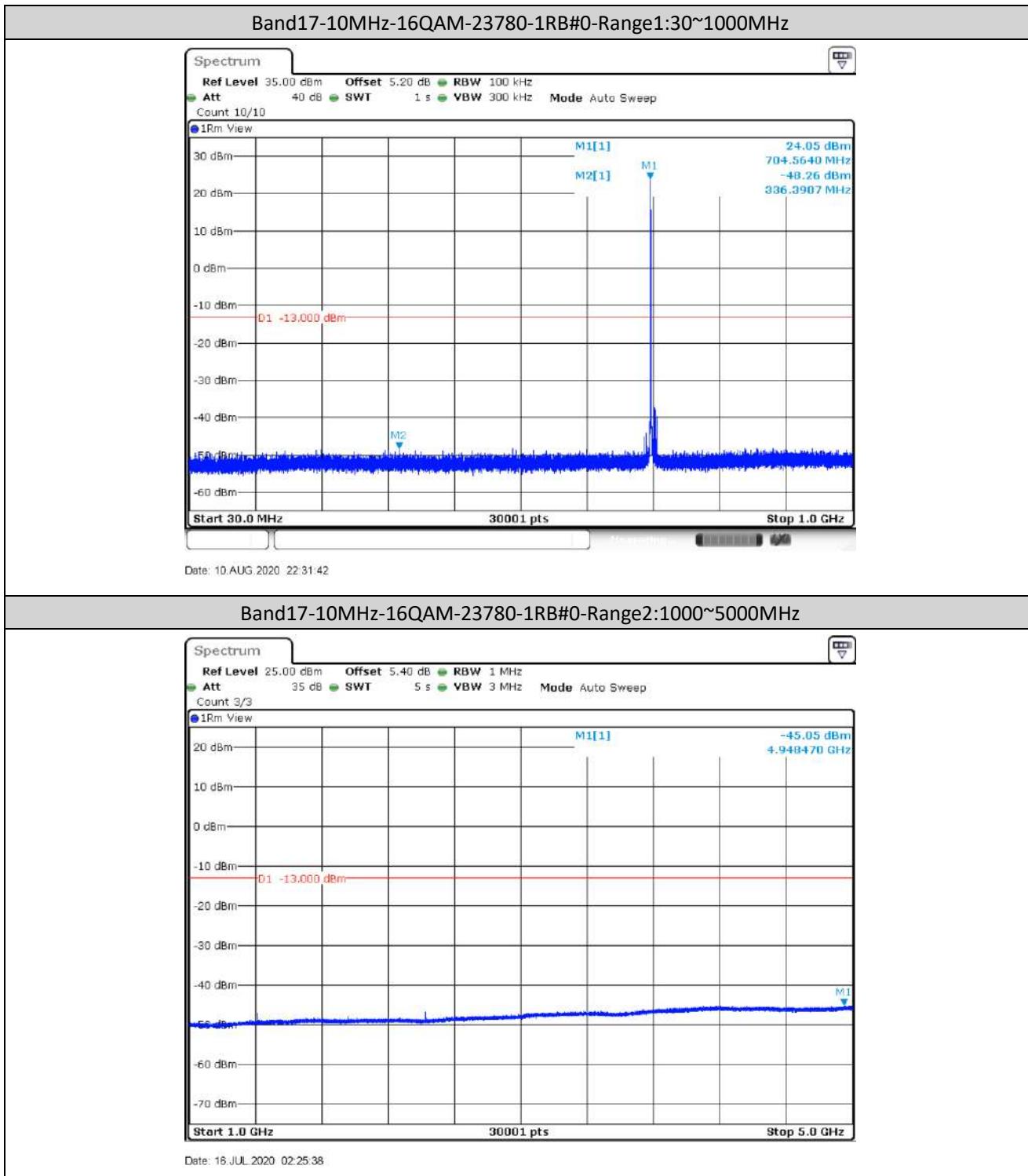
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



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



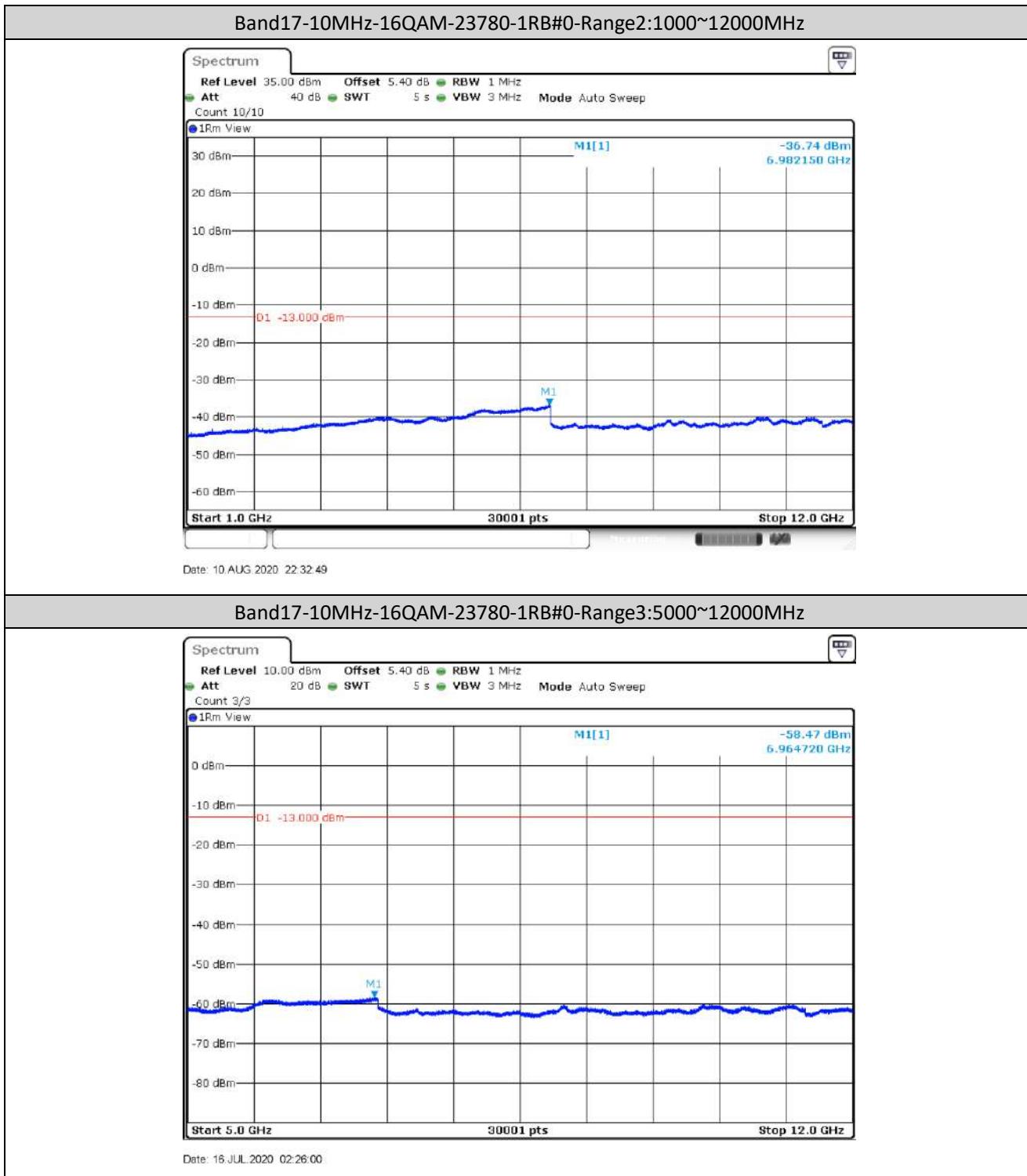
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



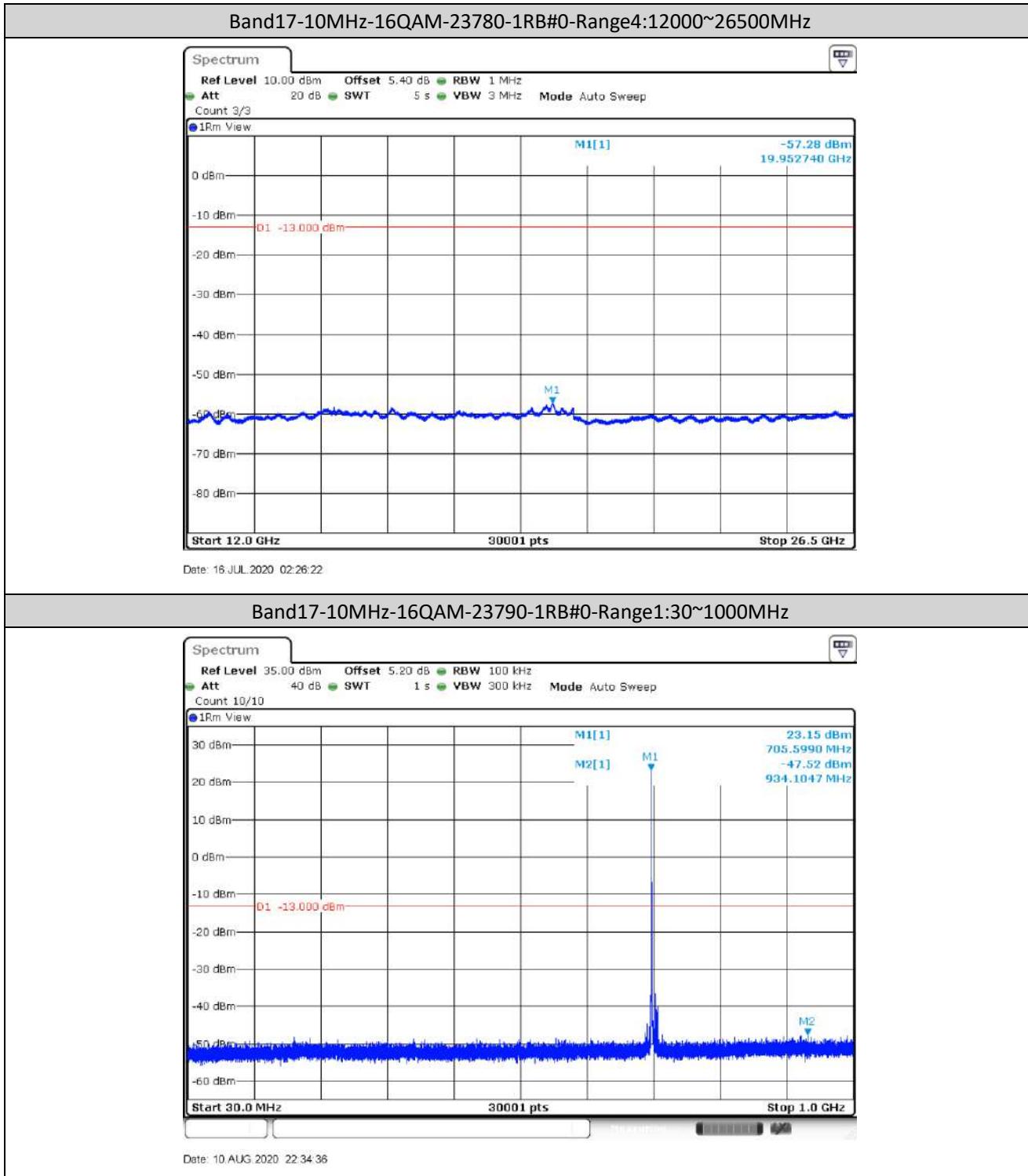
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory SGS Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (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 | (86-755) 26012053 f (86-755) 26710594 | sgs.china@sgs.com



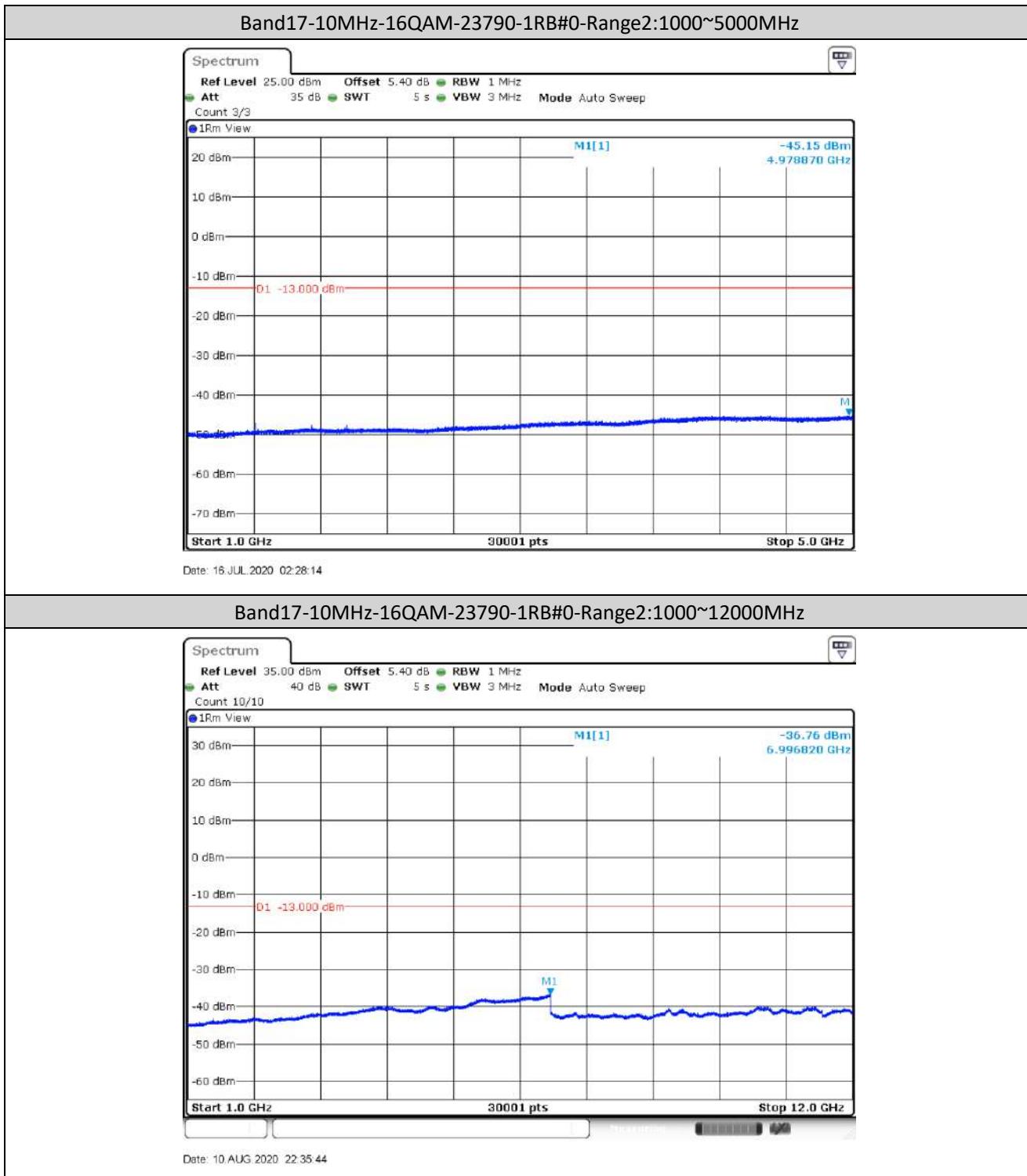
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



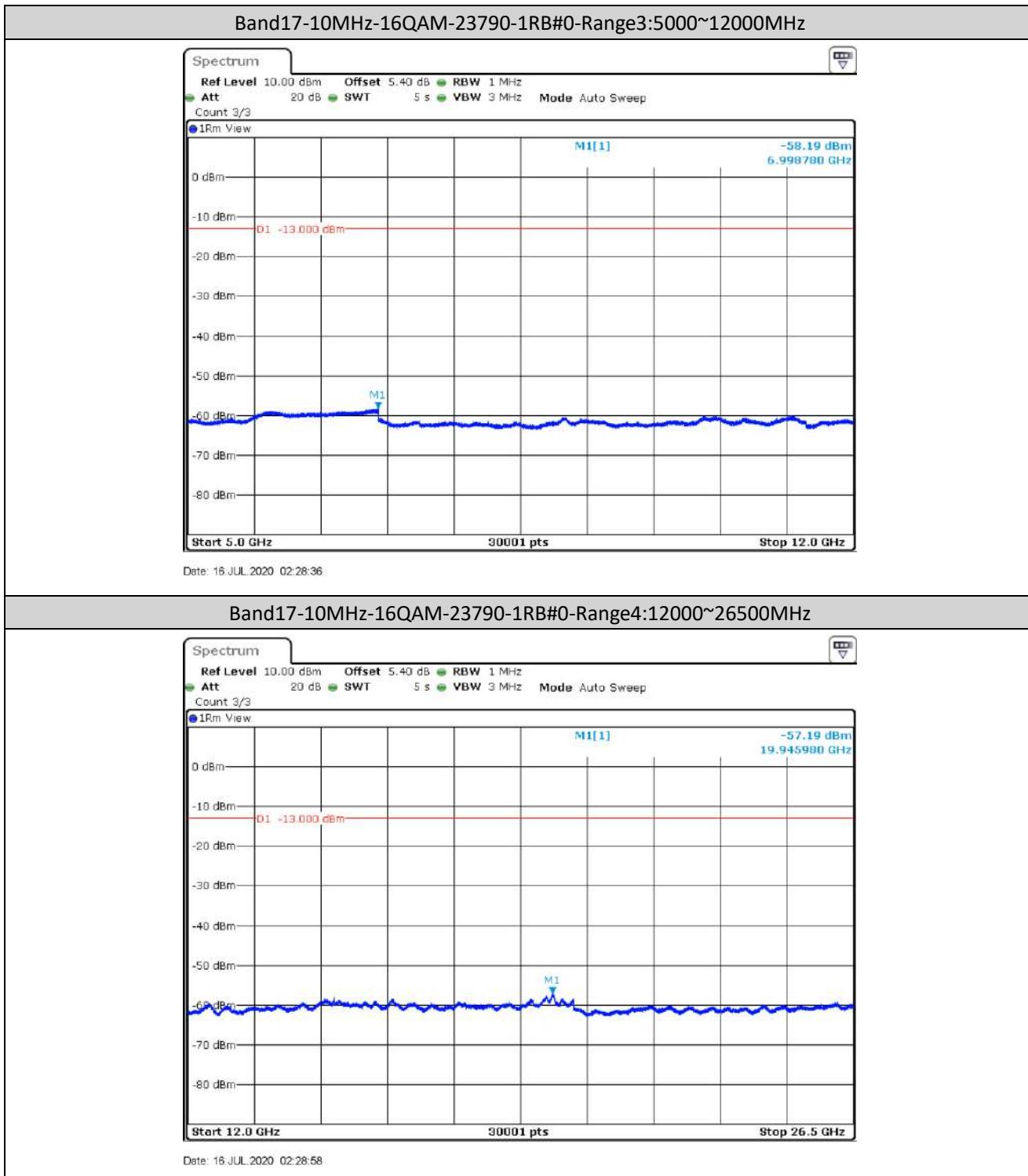
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



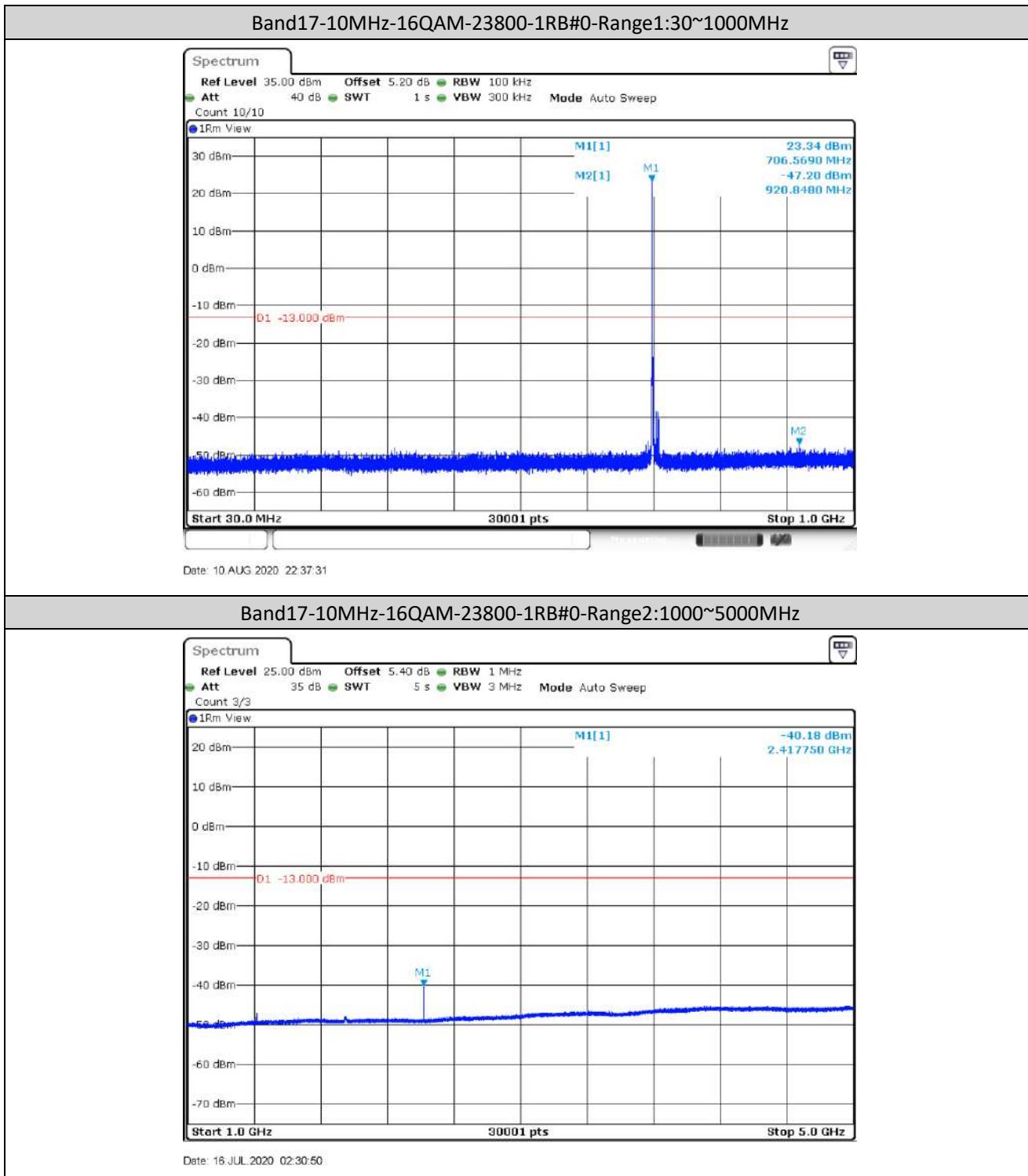
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



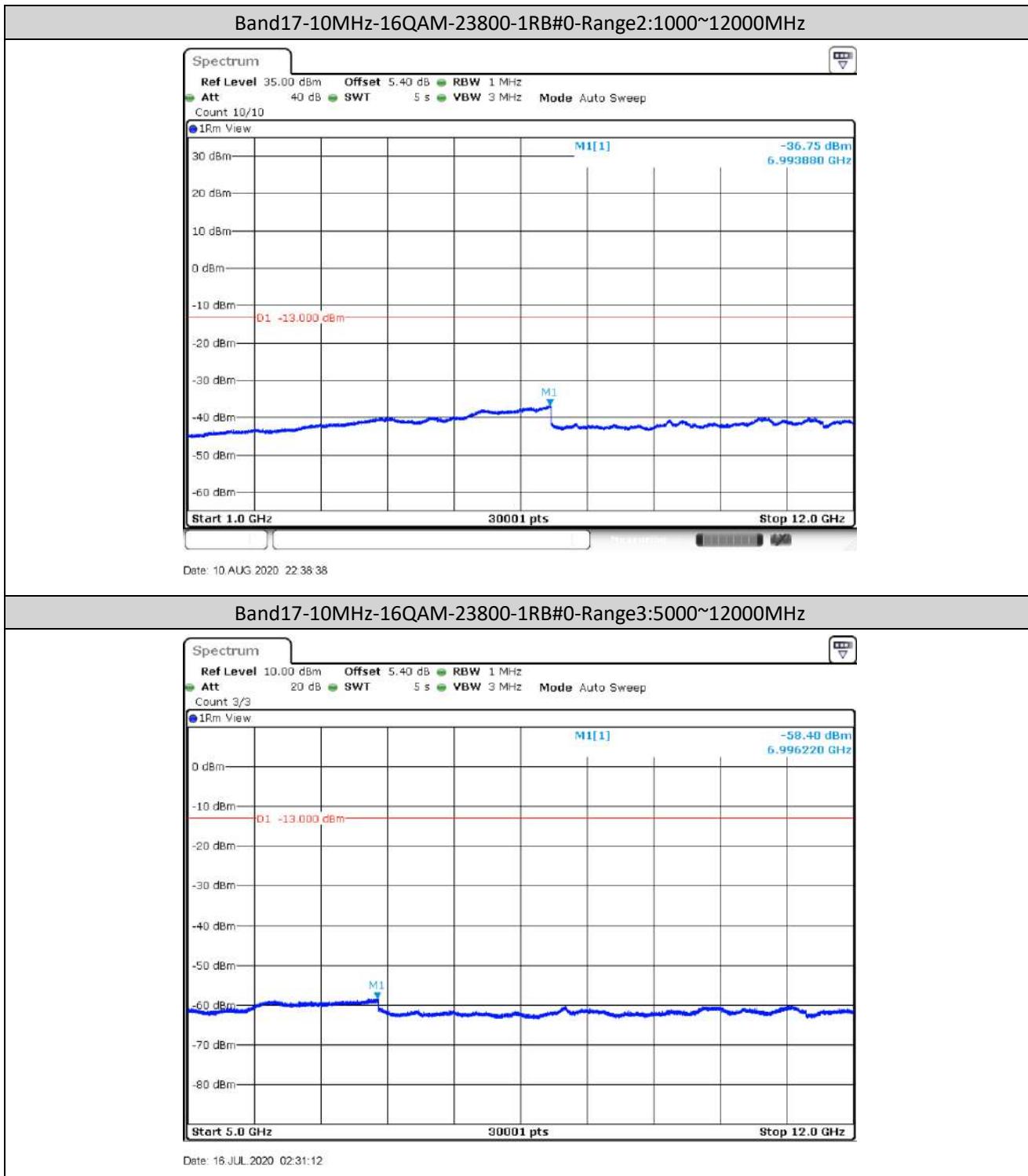
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



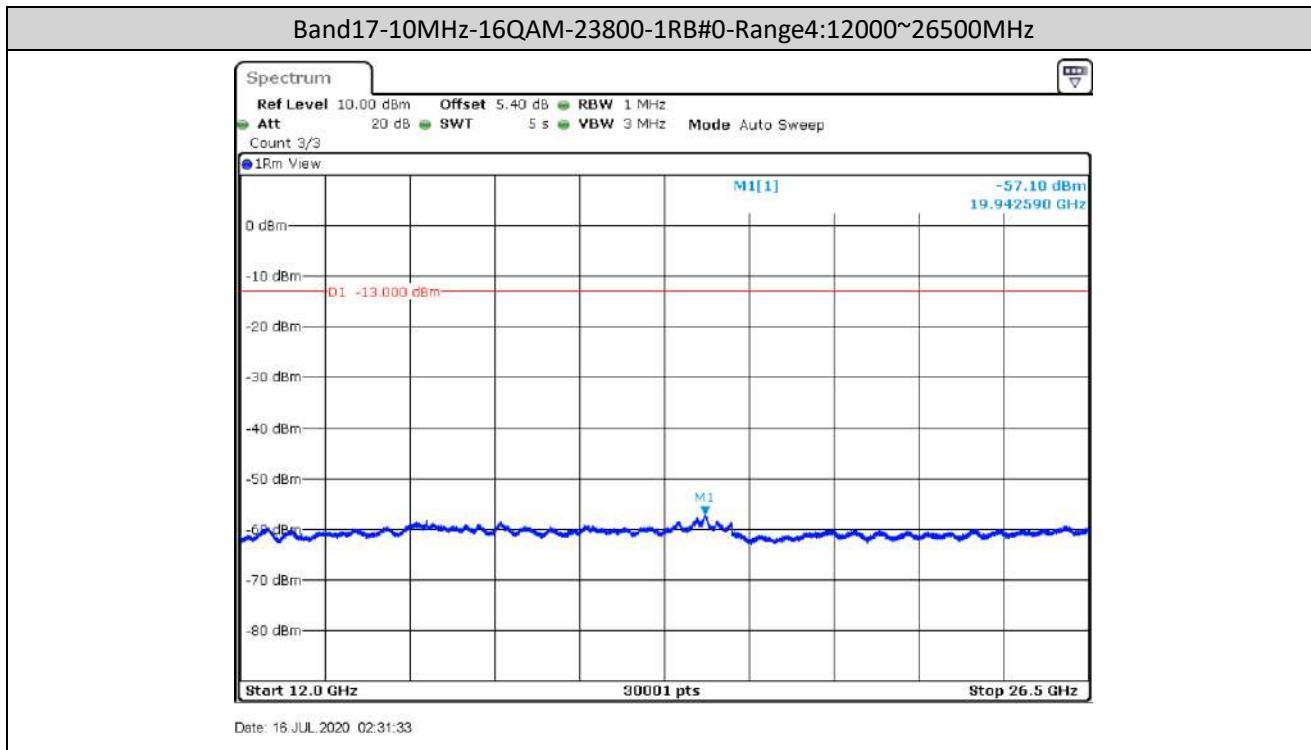
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic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



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.Dcccheck@sgs.com



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

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



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (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 | (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)	Height [cm]	Angle [°]	Polarization
74.4282	-61.98	-13.00	48.98	264	115	Vertical
108.1859	-64.69	-13.00	51.69	158	89	Vertical
295.7933	-69.73	-13.00	56.73	196	143	Vertical
1408.8818	-59.61	-13.00	46.61	184	4	Vertical
2592.3185	-57.74	-13.00	44.74	261	234	Vertical
7349.9740	-55.69	-13.00	42.69	164	9	Vertical
43.9687	-64.86	-13.00	51.86	258	7	Horizontal
68.0259	-68.55	-13.00	55.55	215	88	Horizontal
230.9941	-68.68	-13.00	55.68	132	195	Horizontal
1408.8818	-54.94	-13.00	41.94	262	299	Horizontal
2113.8228	-59.74	-13.00	46.74	219	251	Horizontal
7470.0988	-56.22	-13.00	43.22	196	142	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
74.5737	-63.40	-13.00	50.40	174	87	Vertical
387.6084	-68.36	-13.00	55.36	185	6	Vertical
1410.8822	-56.91	-13.00	43.91	196	15	Vertical
3000.0000	-56.64	-13.00	43.64	231	192	Vertical
7372.9749	-55.90	-13.00	42.90	262	140	Vertical
17998.1999	-40.56	-13.00	27.56	294	274	Vertical
41.2526	-65.14	-13.00	52.14	285	114	Horizontal
232.1581	-68.98	-13.00	55.98	154	114	Horizontal
1411.2823	-49.68	-13.00	36.68	163	334	Horizontal
2117.0234	-57.75	-13.00	44.75	231	267	Horizontal
7475.5790	-55.83	-13.00	42.83	251	303	Horizontal
16402.7361	-44.10	-13.00	31.10	164	60	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 clauses 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.Dcccheck@sgs.com

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
74.8162	-62.22	-13.00	49.22	174	61	Vertical
110.4170	-65.14	-13.00	52.14	185	196	Vertical
250.4435	-71.35	-13.00	58.35	196	8	Vertical
1412.8826	-58.65	-13.00	45.65	231	4	Vertical
2497.8996	-57.68	-13.00	44.68	262	104	Vertical
7353.0541	-55.95	-13.00	42.95	269	168	Vertical
41.9801	-63.95	-13.00	50.95	262	302	Horizontal
67.5894	-68.39	-13.00	55.39	291	302	Horizontal
234.0982	-68.73	-13.00	55.73	184	115	Horizontal
1413.2827	-54.40	-13.00	41.40	231	296	Horizontal
2119.8240	-57.54	-13.00	44.54	251	280	Horizontal
7447.4179	-56.51	-13.00	43.51	164	168	Horizontal

Remark:

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

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed 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 clauses defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



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

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

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	2.60	0.003667	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	1.30	0.001834	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.10	-0.005775	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.00	0.001408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.50	-0.004923	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-4.30	-0.006048	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-3.10	-0.004372	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	2.50	0.003521	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	2.90	0.004085	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	0.90	0.001266	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	7.60	0.010704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	5.60	0.007887	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	3.30	0.004641	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	4.00	0.005626	±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
------	-----------	------------	---------	--------------	---------------	------------------	----------------	-----------------	-------------	---------

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 clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (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 | (86-755) 26012053 f (86-755) 26710594 | sgs.china@sgs.com



Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-4.10	-0.005783	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	3.50	0.004937	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	5.20	0.007334	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-4.10	-0.005783	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	2.30	0.003244	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-4.40	-0.006197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	4.90	0.006901	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-4.30	-0.006056	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	3.20	0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.60	-0.002250	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	3.40	0.004782	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.00	0.002813	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	3.60	0.005063	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.90	0.004079	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-2.80	-0.003949	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	1.70	0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	2.90	0.004090	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	1.80	0.002539	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-4.20	-0.005915	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	3.70	0.005211	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	4.10	0.005775	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	0.80	0.001127	±2.5	PASS

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic-format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>.
Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses 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 | (86-755) 26012053 | (86-755) 26710594 | www.sgsgroup.com.cn
邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | sgs.china@sgs.com



Band17	10MHz	64QAM	23790	50RB#0	NV	40	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-3.10	-0.004366	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-4.40	-0.006188	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	1.20	0.001688	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-4.50	-0.006329	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	1.80	0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	2.60	0.003667	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-2.30	-0.003244	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-1.40	-0.001975	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.80	0.003944	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-4.00	-0.005634	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	4.40	0.006197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	0.70	0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	1.20	0.001688	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	1.40	0.001969	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.30	-0.001828	±2.5	PASS

The End



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

中国·深圳·科技园中区M-10栋一号厂房

邮编: 518057 | (86-755) 26012053 | (86-755) 26710594 | www.sgsgroup.com.cn
sgs.china@sgs.com