



Appendix B

E-UTRA Band 17



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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT FOR ANT0	3
1.2.	TEST RESULT FOR ANT1	6
2.	PEAK-TO-AVERAGE RATIO (CCDF)	9
2.1.	TEST RESULT	9
2.2.	TEST PLOTS	9
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	18
5.	BAND EDGE COMPLIANCE	27
5.1.	TEST PLOTS	27
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	39
6.1.	TEST PLOTS	39
7.	FIELD STRENGTH OF SPURIOUS RADIATION	48
7.1.	TEST MODE =LTE/TM1 (ANT0)	48
7.1.1.	TEST CHANNEL = LCH	48
7.1.2.	TEST CHANNEL = MCH	48
7.1.3.	TEST CHANNEL = HCH	49
7.2.	TEST MODE =LTE/TM1 (ANT1)	49
7.2.1.	TEST CHANNEL = LCH	49
7.2.2.	TEST CHANNEL = MCH	50
7.2.3.	TEST CHANNEL = HCH	50
8.	FREQUENCY STABILITY	51
8.1.	FREQUENCY VS VOLTAGE	51
8.2.	FREQUENCY VS TEMPERATURE	51



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

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

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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result for Ant0

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.53	15.78	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#13	23.60	15.85	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.56	15.81	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.59	14.84	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.66	14.91	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.64	14.89	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.69	14.94	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.48	15.73	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#13	23.62	15.87	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.57	15.82	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.67	14.92	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.69	14.94	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.69	14.94	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.73	14.98	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.48	15.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#13	23.64	15.89	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.61	15.86	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.64	14.89	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.68	14.93	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.74	14.99	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.66	14.91	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.69	13.94	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#13	21.87	14.12	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.66	13.91	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.75	13.00	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.71	12.96	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.74	12.99	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.65	12.90	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.95	14.20	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#13	21.97	14.22	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	22.07	14.32	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.78	13.03	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.80	13.05	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.80	13.05	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.75	13.00	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.86	14.11	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#13	21.90	14.15	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.08	14.33	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.59	12.84	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.69	12.94	34.77	PASS



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

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

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

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



Band17	5MHz	64QAM	23825	12RB#13	20.75	13.00	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.68	12.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.68	14.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#13	22.83	15.08	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.66	14.91	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.69	13.94	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.65	13.90	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.70	13.95	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.68	13.93	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.95	15.20	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#13	22.91	15.16	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.12	15.37	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.75	14.00	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.74	13.99	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.75	14.00	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.77	14.02	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.90	15.15	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#13	22.84	15.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.12	15.37	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.62	13.87	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.65	13.90	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.77	14.02	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.68	13.93	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.62	15.87	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.66	15.91	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.67	15.92	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.66	14.91	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.67	14.92	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.70	14.95	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.75	15.00	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.47	15.72	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.67	15.92	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.68	15.93	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.70	14.95	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.66	14.91	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.75	15.00	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.74	14.99	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.67	15.92	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.66	15.91	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.60	15.85	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.66	14.91	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.73	14.98	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.75	15.00	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.68	14.93	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.04	14.29	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.07	14.32	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.85	14.10	34.77	PASS



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

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



Band17	10MHz	64QAM	23780	25RB#0	20.58	12.83	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.74	12.99	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.80	13.05	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.58	12.83	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.79	14.04	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.22	14.47	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.66	13.91	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.74	12.99	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	20.76	13.01	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.71	12.96	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.76	13.01	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.58	13.83	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.14	14.39	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.05	14.30	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.61	12.86	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	20.73	12.98	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.71	12.96	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.70	12.95	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.39	15.64	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.04	15.29	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.83	15.08	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.61	13.86	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.72	13.97	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.76	14.01	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.61	13.86	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.78	15.03	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.16	15.41	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.65	14.90	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.68	13.93	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.78	14.03	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.74	13.99	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.73	13.98	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.54	14.79	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.11	15.36	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.03	15.28	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.56	13.81	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.70	13.95	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.71	13.96	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.68	13.93	34.77	PASS





1.2. Test Result for Ant1

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.81	19.26	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#13	23.90	19.35	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.91	19.36	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.92	18.37	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.97	18.42	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.91	18.36	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.01	18.46	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.76	19.21	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#13	23.94	19.39	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.94	19.39	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.97	18.42	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.85	18.30	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.98	18.43	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.97	18.42	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.92	19.37	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#13	23.88	19.33	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.83	19.28	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.96	18.41	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.02	18.47	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.99	18.44	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.97	18.42	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.68	17.13	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#13	21.66	17.11	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.77	17.22	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.79	16.24	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.76	16.21	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.76	16.21	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.83	16.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.72	17.17	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#13	21.71	17.16	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.79	17.24	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.90	16.35	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.82	16.27	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.90	16.35	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.83	16.28	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.83	17.28	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#13	21.64	17.09	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.60	17.05	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.89	16.34	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.92	16.37	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.77	16.22	34.77	PASS



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

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



Band17	5MHz	64QAM	23825	25RB#0	20.84	16.29	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.07	18.52	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#13	23.04	18.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.38	18.83	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.00	17.45	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.89	17.34	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.95	17.40	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.95	17.40	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.25	18.70	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#13	23.08	18.53	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.01	18.46	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.98	17.43	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.03	17.48	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.93	17.38	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.04	17.49	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.37	18.82	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#13	23.08	18.53	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.79	19.24	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.93	17.38	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.03	17.48	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.02	17.47	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.95	17.40	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.92	19.37	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.88	19.33	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.96	19.41	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.88	18.33	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.92	18.37	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.03	18.48	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.93	18.38	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.82	19.27	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.75	19.20	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.95	19.40	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.92	18.37	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.02	18.47	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.97	18.42	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.18	18.63	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.76	19.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.79	19.24	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.84	19.29	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.95	18.40	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.84	18.29	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.00	18.45	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.97	18.42	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.97	17.42	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.20	17.65	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	17.37	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.98	16.43	34.77	PASS



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

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

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

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



Band17	10MHz	64QAM	23780	25RB#12	21.06	16.51	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	21.11	16.56	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.89	16.34	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.31	17.76	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.26	17.71	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.16	17.61	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.94	16.39	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.16	16.61	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.05	16.50	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.92	16.37	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	22.18	17.63	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.32	17.77	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.91	17.36	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.01	16.46	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.07	16.52	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.04	16.49	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.89	16.34	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.07	18.52	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.27	18.72	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.32	18.77	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.95	17.40	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.11	17.56	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.03	17.48	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.91	17.36	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.09	18.54	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.53	18.98	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.37	18.82	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.05	17.50	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.94	17.39	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.04	17.49	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.96	17.41	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.30	18.75	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.48	18.93	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.82	18.27	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.92	17.37	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.05	17.50	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.01	17.46	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.88	17.33	34.77	PASS

Remark:

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

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

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



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

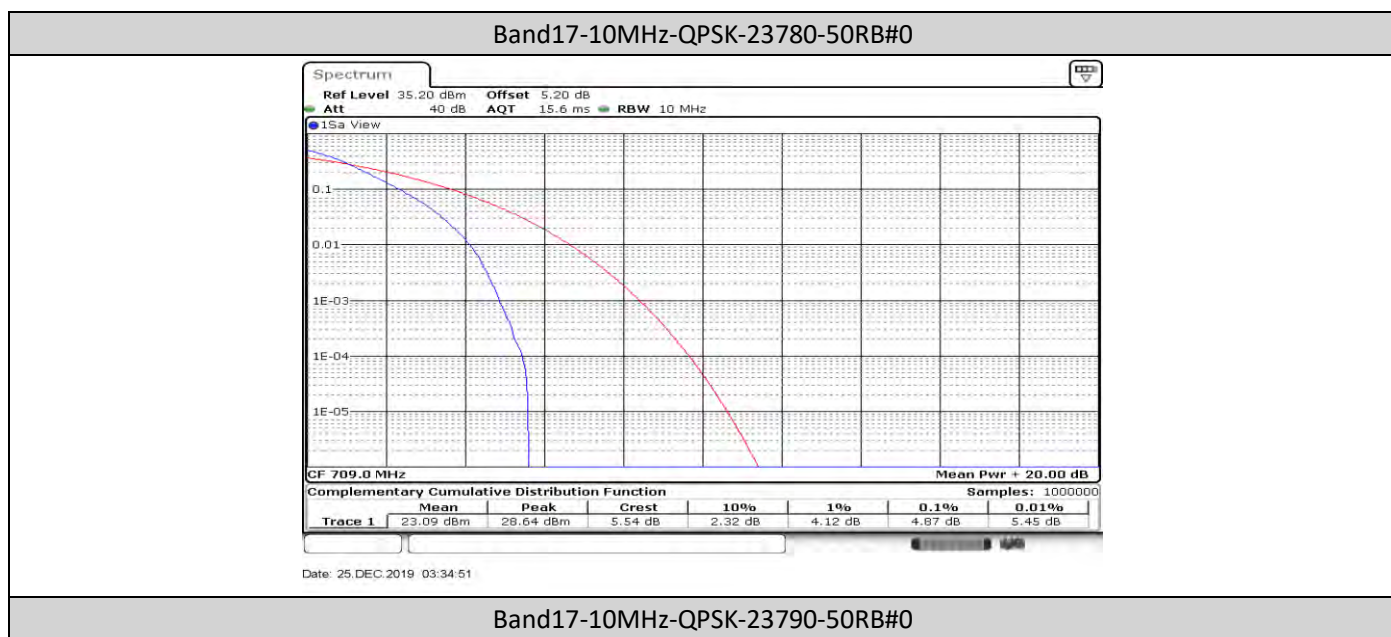


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	4.87	13.00	PASS
Band17	10MHz	QPSK	23790	50RB#0	4.78	13.00	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.87	13.00	PASS
Band17	10MHz	64QAM	23780	50RB#0	5.86	13.00	PASS
Band17	10MHz	64QAM	23790	50RB#0	5.48	13.00	PASS
Band17	10MHz	64QAM	23800	50RB#0	5.83	13.00	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.83	13.00	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.48	13.00	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.39	13.00	PASS

2.2. Test Plots





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



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





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



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





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



Band17-10MHz-16QAM-23790-50RB#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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



Band17-10MHz-16QAM-23800-50RB#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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

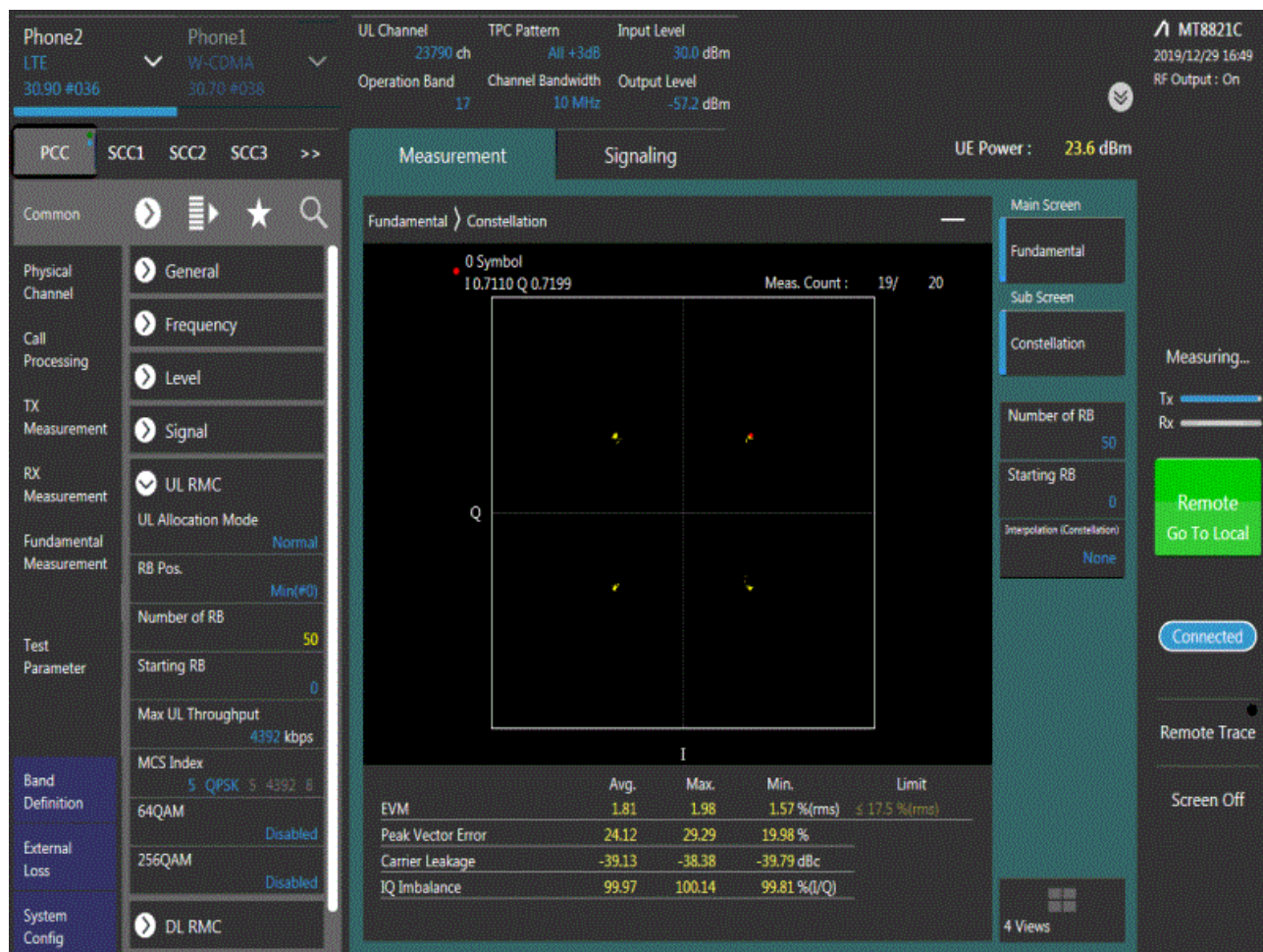
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

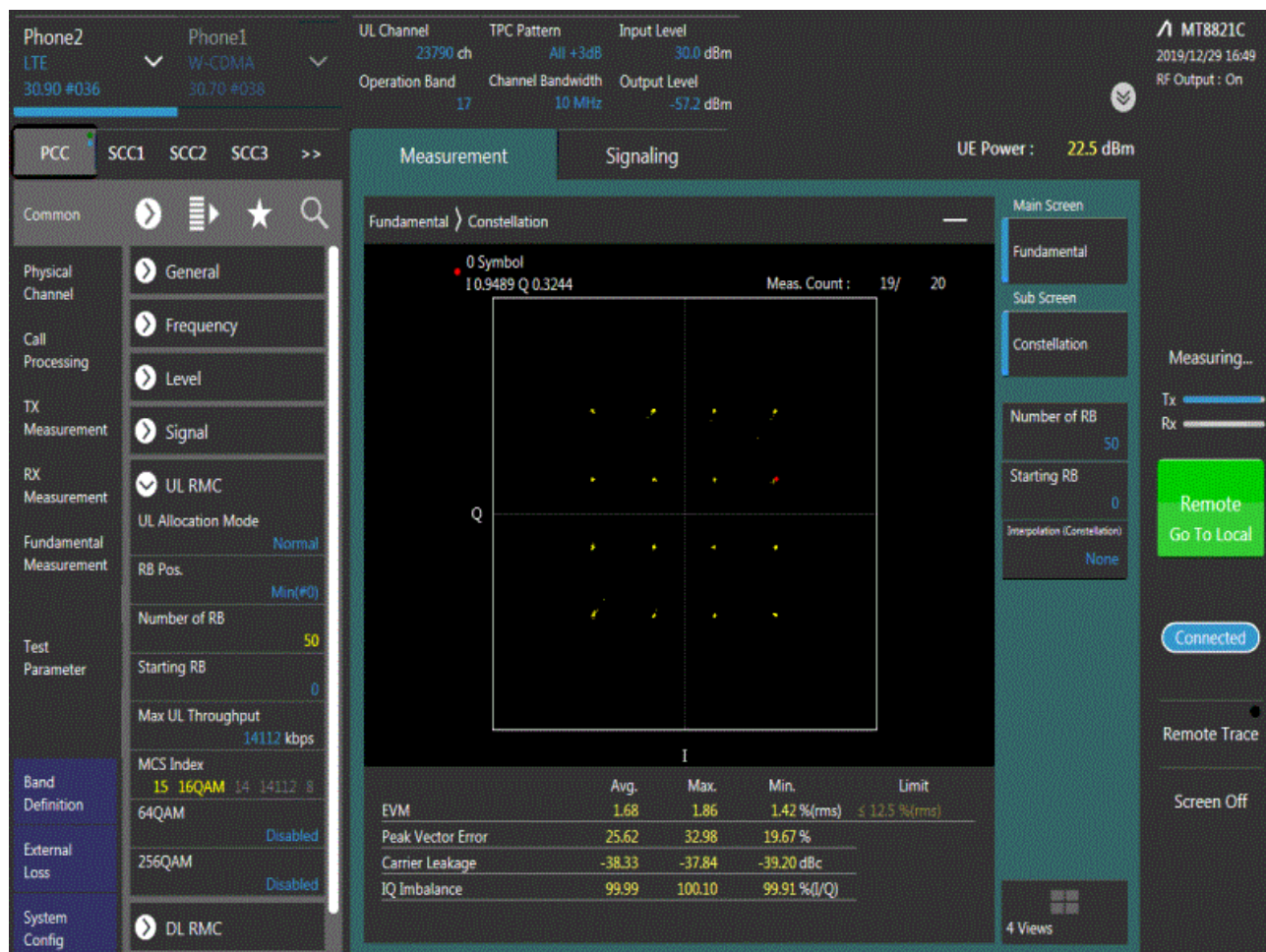
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

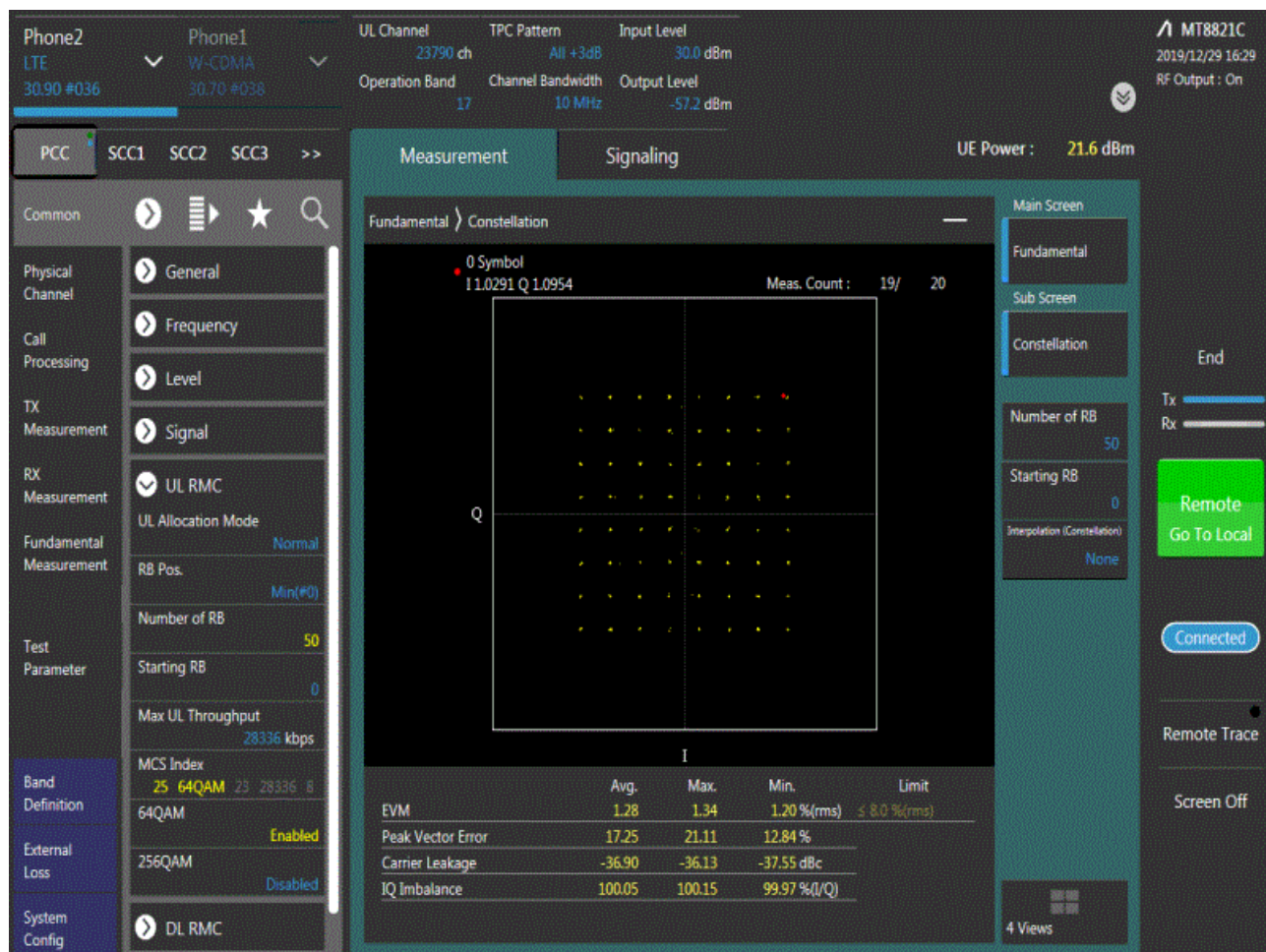
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 10MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

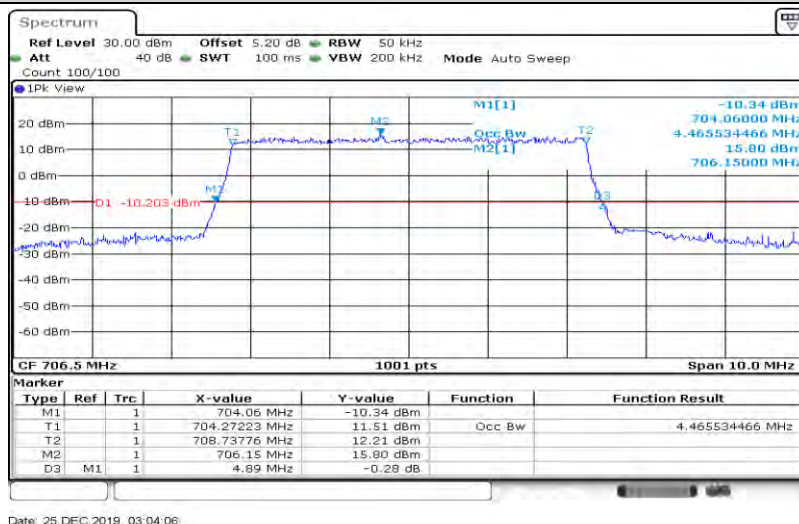
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.466	4.890	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.476	4.900	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.456	4.890	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.940	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.910	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.930	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	4.940	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.476	4.930	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.911	9.640	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.931	9.680	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.931	9.680	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.931	9.620	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.911	9.560	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.911	9.620	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.931	9.620	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.660	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.911	9.640	PASS



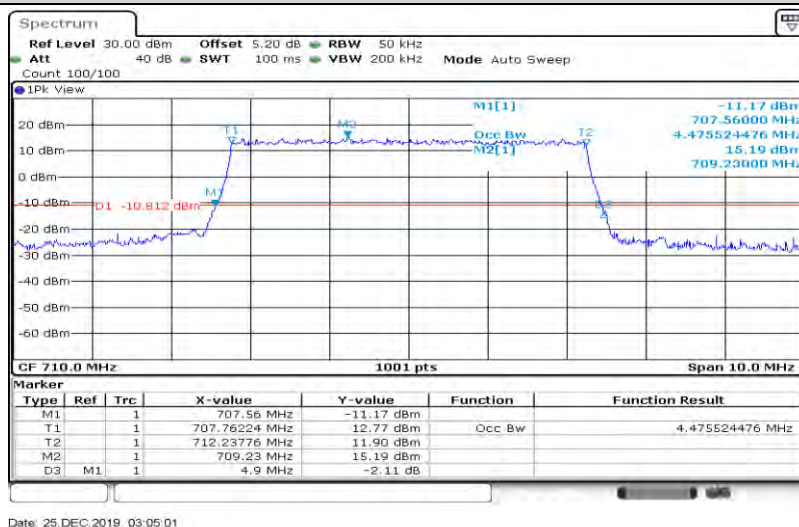


4.2. Test Plots

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

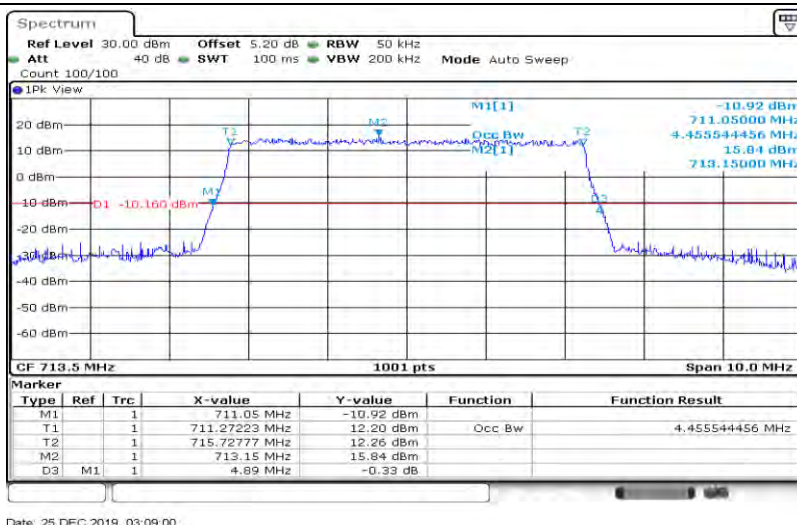


Band17-5MHz-QPSK-23790-25RB#0-4.476

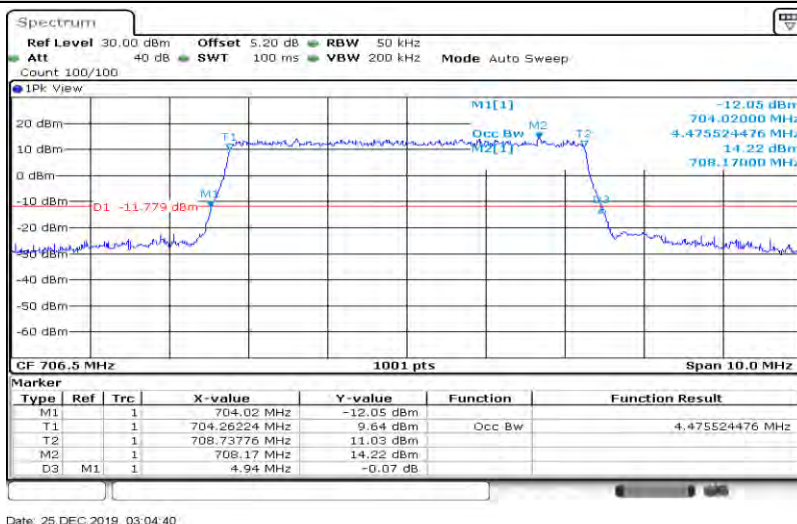


Band17-5MHz-QPSK-23825-25RB#0-4.456





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

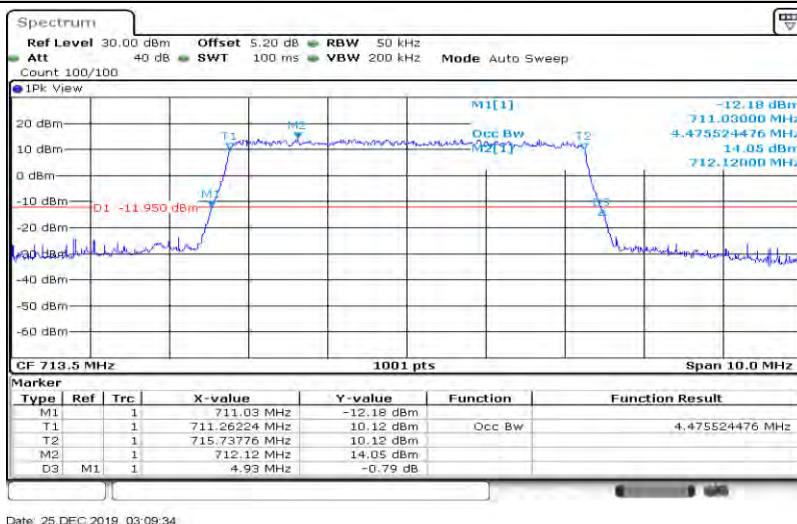


Band17-5MHz-64QAM-23790-25RB#0-4.476



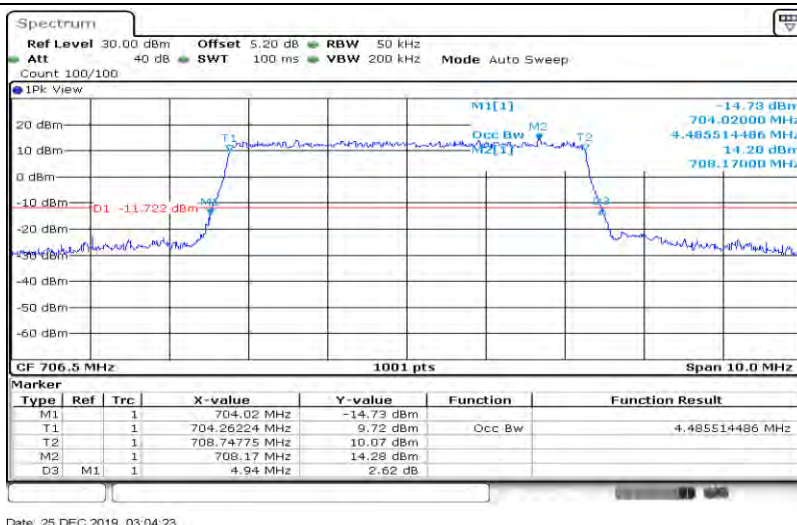


Band17-5MHz-64QAM-23825-25RB#0-4.476

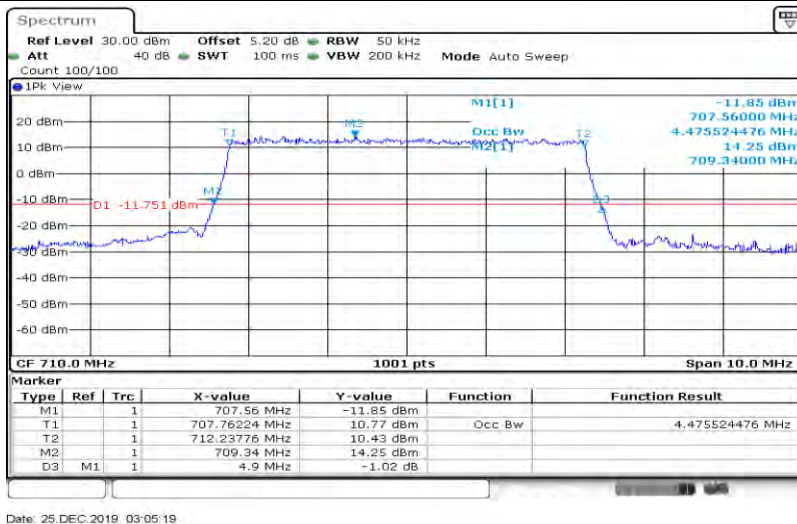


Band17-5MHz-16QAM-23755-25RB#0-4.486



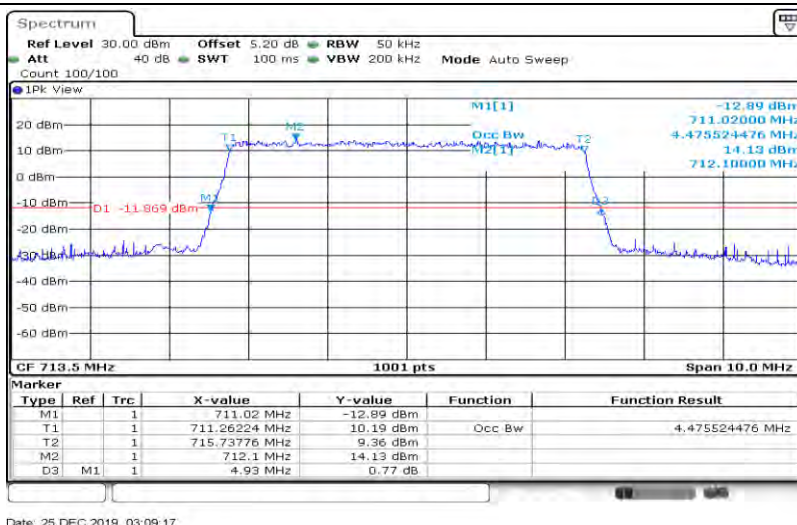


Band17-5MHz-16QAM-23790-25RB#0-4.476



Band17-5MHz-16QAM-23825-25RB#0-4.476





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

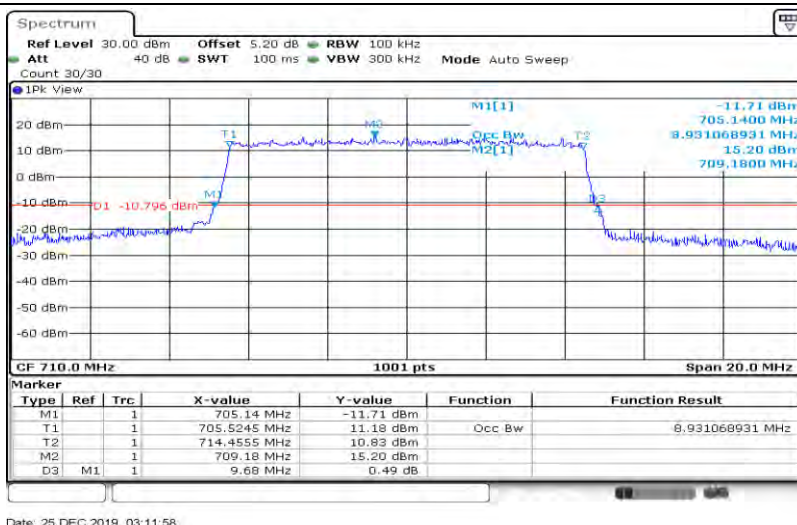


Band17-10MHz-QPSK-23790-50RB#0-8.931



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

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



Band17-10MHz-QPSK-23800-50RB#0-8.931

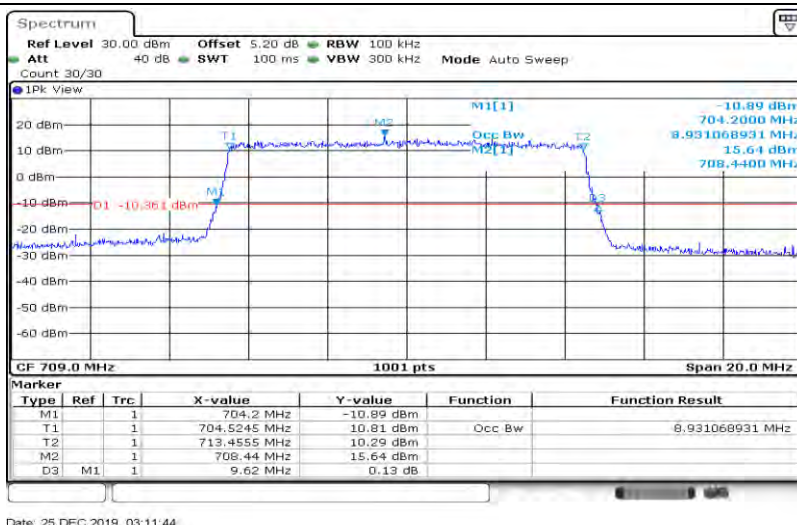


Band17-10MHz-64QAM-23780-50RB#0-8.931

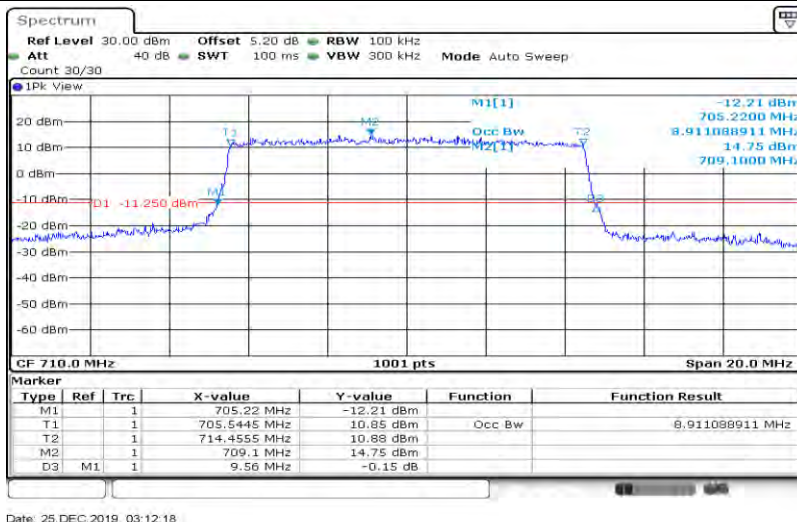


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

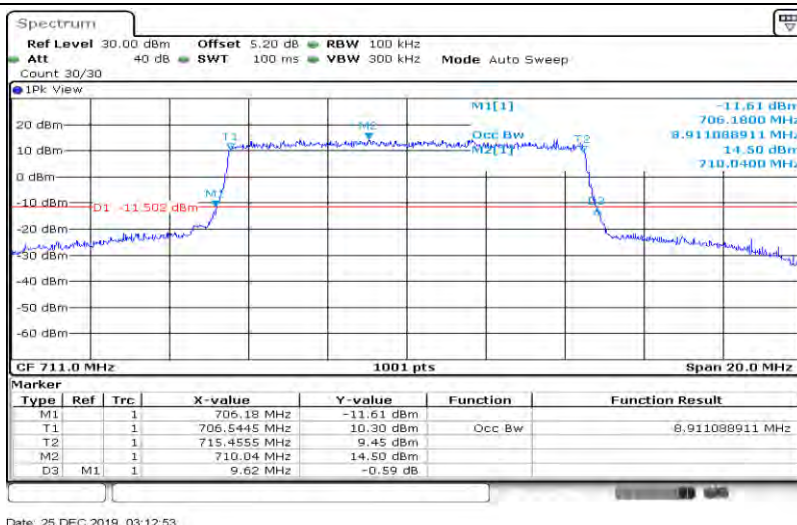


Band17-10MHz-64QAM-23790-50RB#0-8.911



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



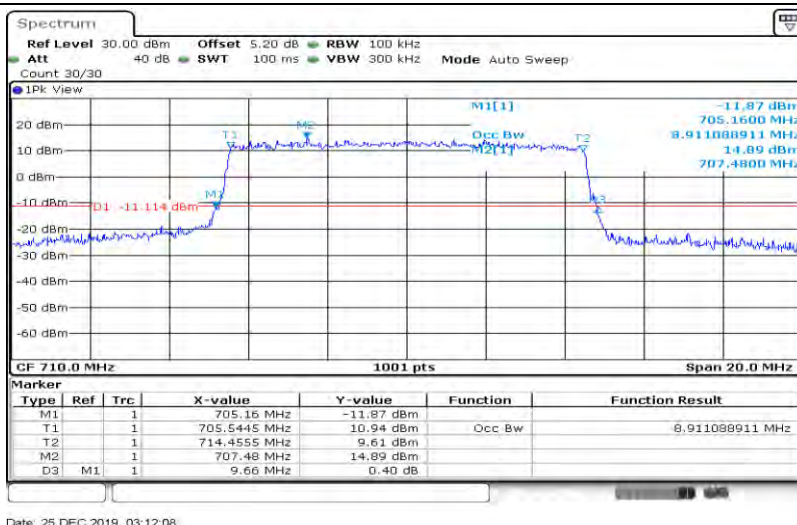


Band17-10MHz-16QAM-23780-50RB#0-8.931

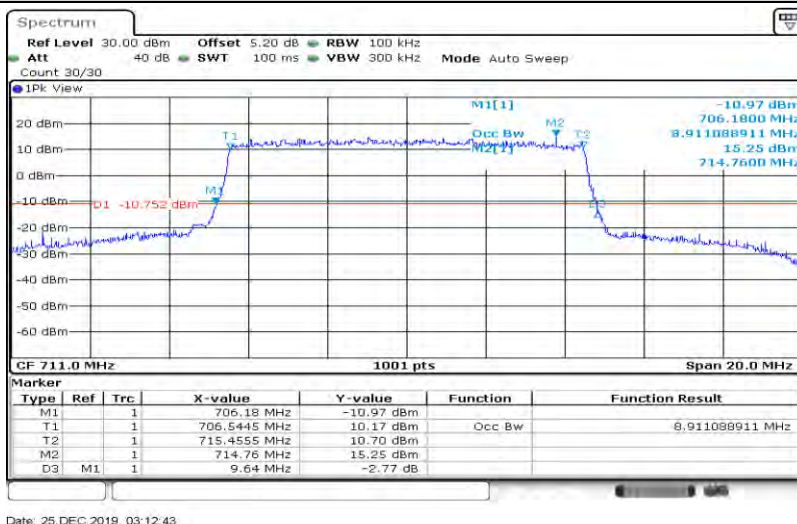


Band17-10MHz-16QAM-23790-50RB#0-8.911





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



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

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

5. Band Edge Compliance

5.1. Test Plots

Band17-5MHz-QPSK-23755-1RB#0



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



Band17-5MHz-QPSK-23825-1RB#24





Date: 25.DEC.2019 03:15:12

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



Date: 25.DEC.2019 03:16:05

Band17-5MHz-64QAM-23755-1RB#0



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

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



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

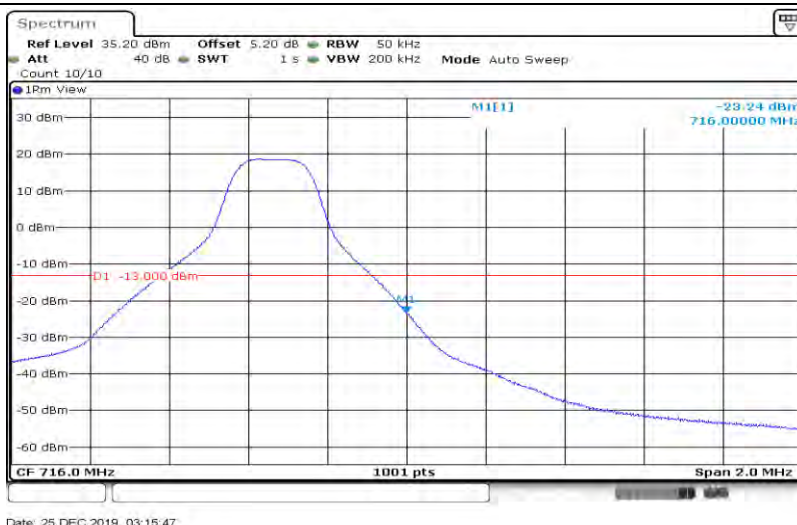


Band17-5MHz-64QAM-23825-1RB#24



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

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



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



Band17-5MHz-16QAM-23755-1RB#0





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



Band17-5MHz-16QAM-23825-1RB#24



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

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

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



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



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



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

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



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



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





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



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





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



Band17-10MHz-64QAM-23800-1RB#49



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

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



Band17-10MHz-16QAM-23780-1RB#0



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

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



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



Band17-10MHz-16QAM-23800-1RB#49



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

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



Band17-10MHz-16QAM-23800-50RB#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-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

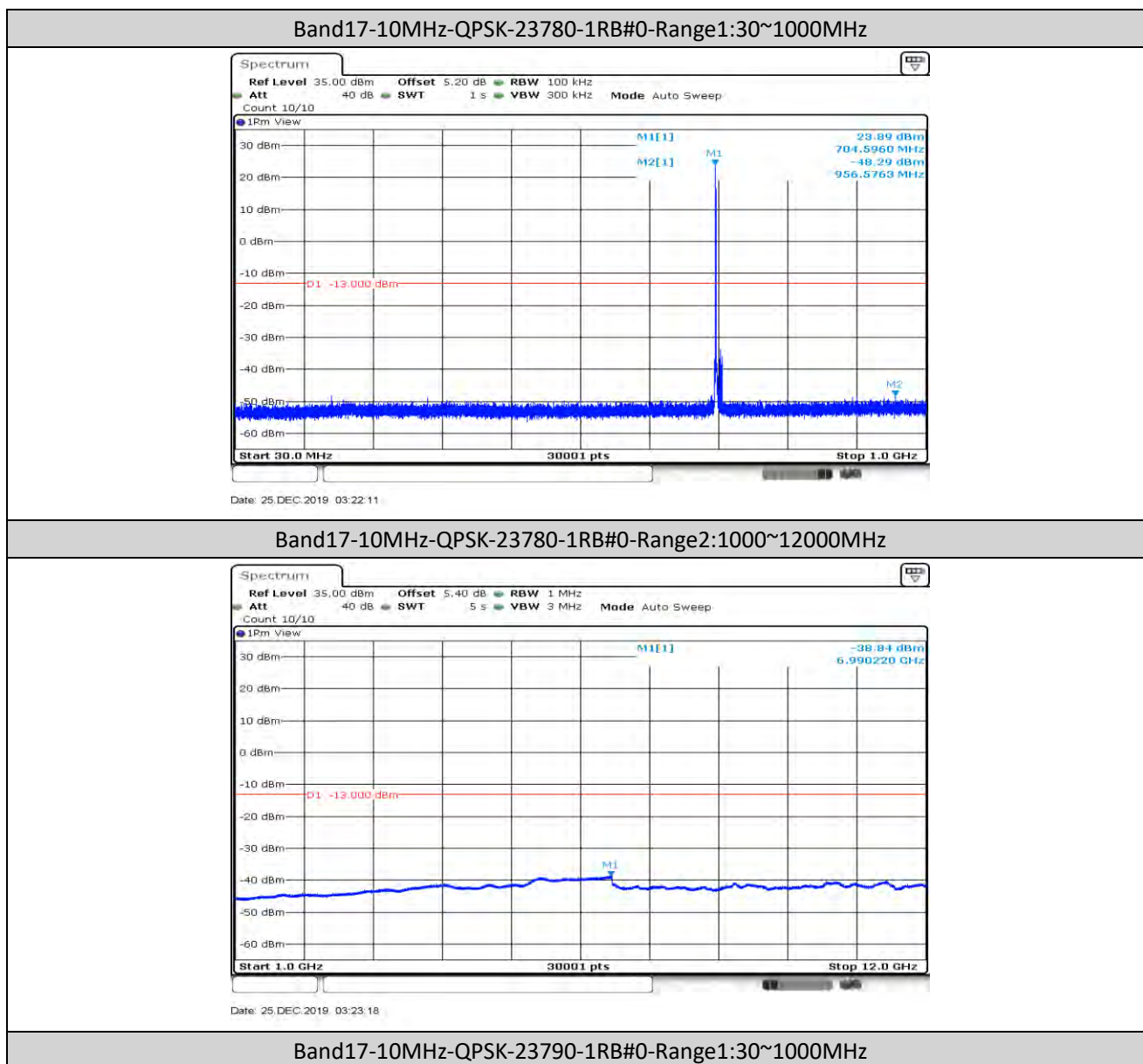
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6. Spurious Emission at Antenna Terminal

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

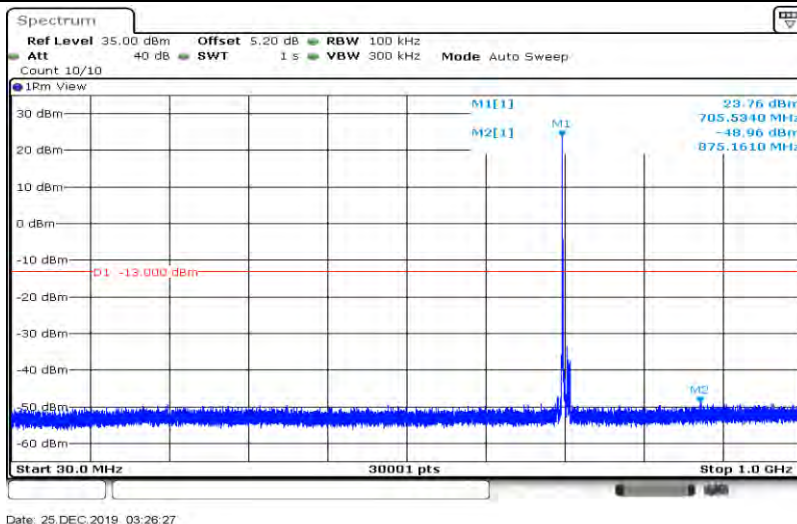
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

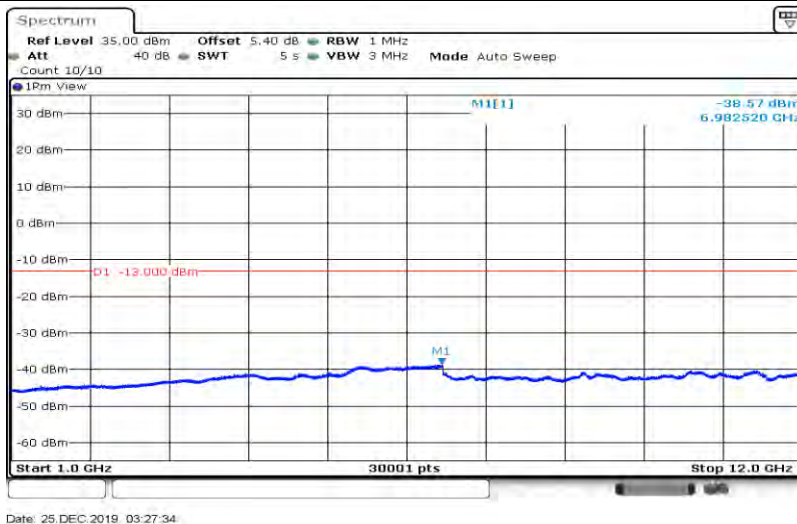


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

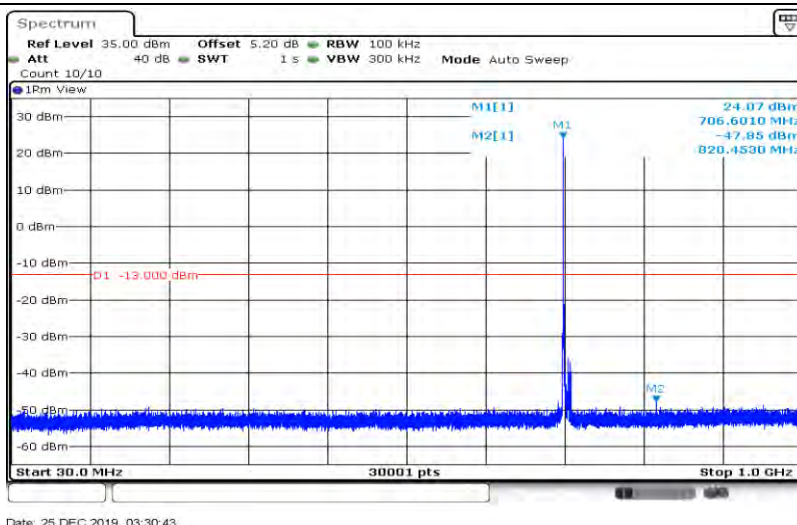


Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz

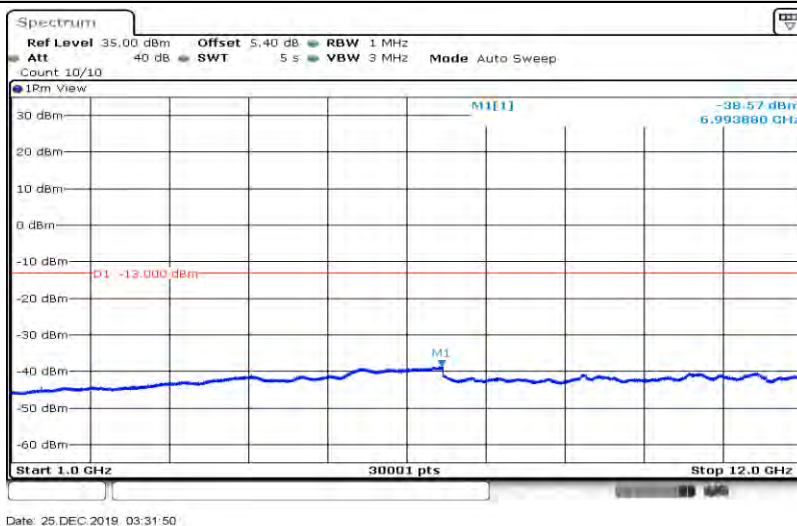


Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



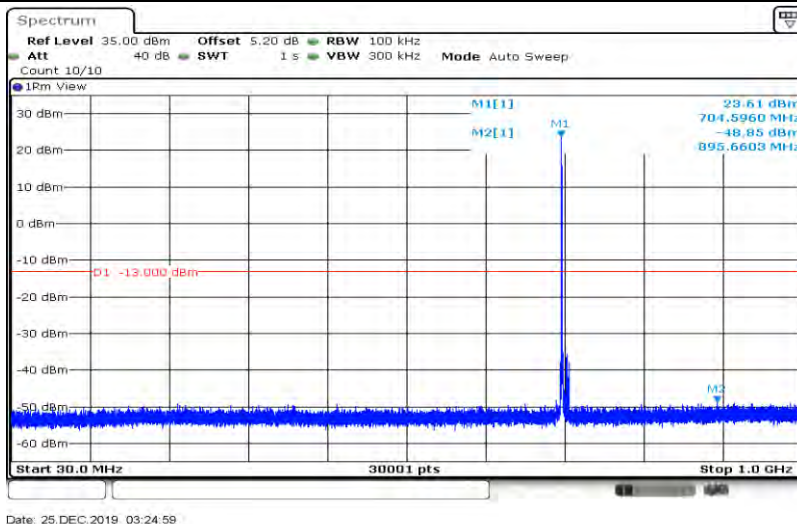


Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~12000MHz

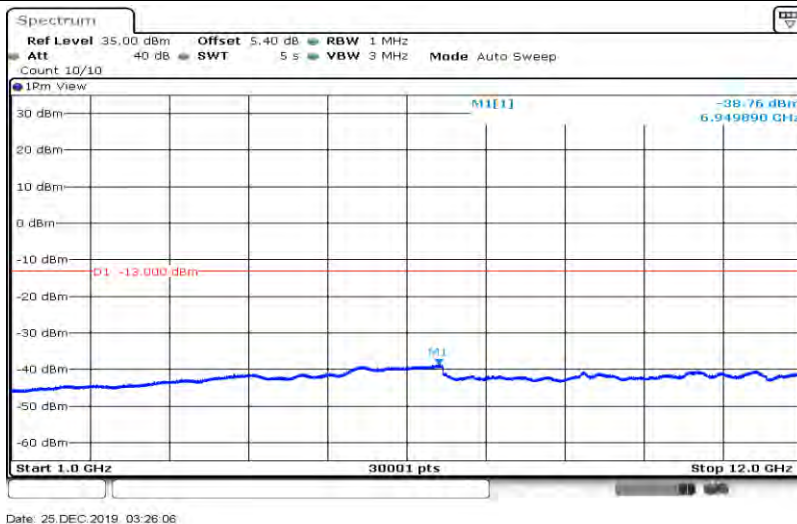


Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



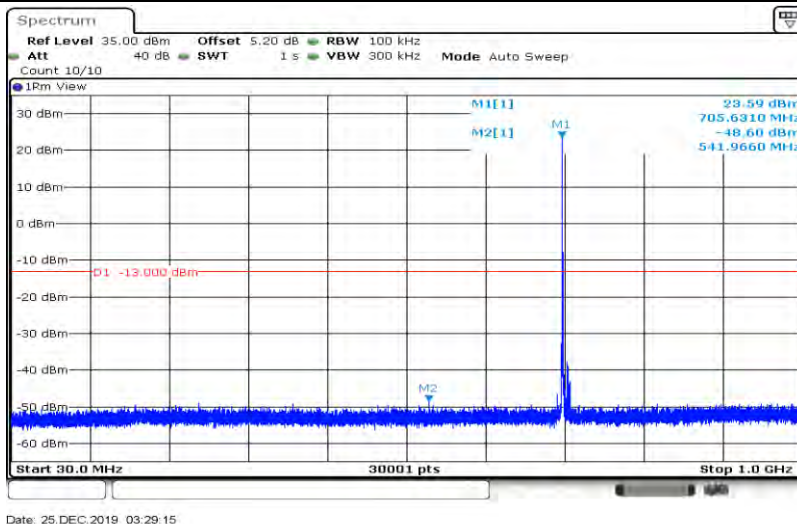


Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~12000MHz

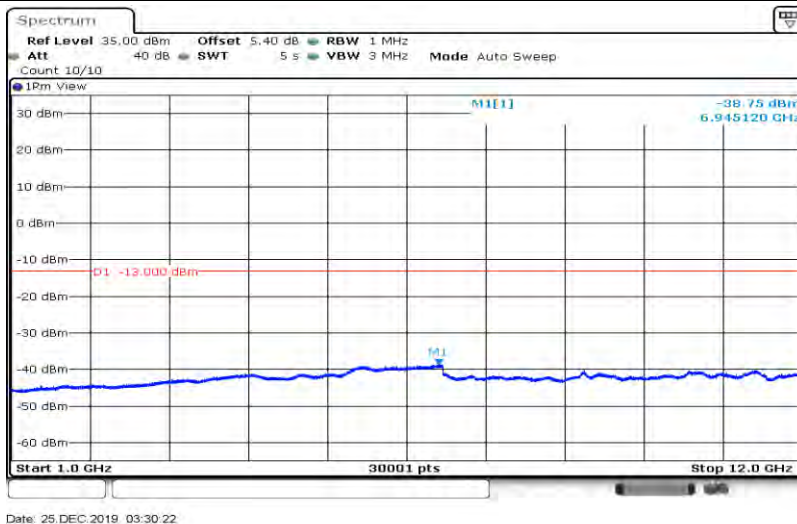


Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



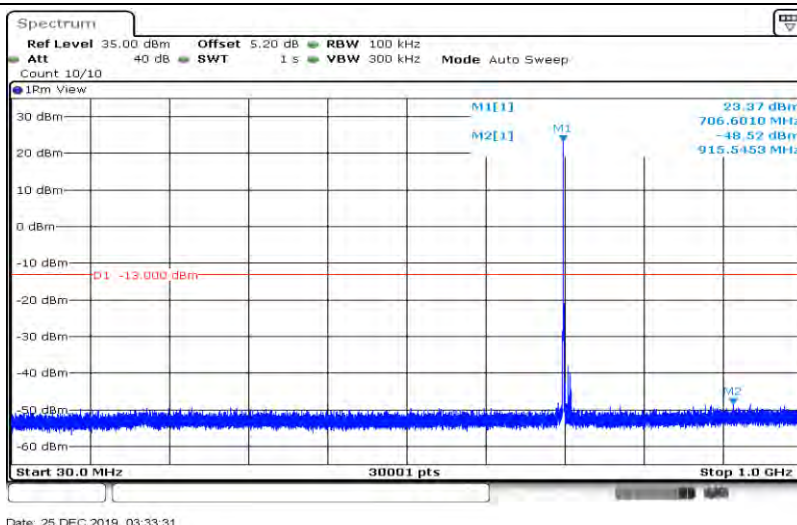


Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz

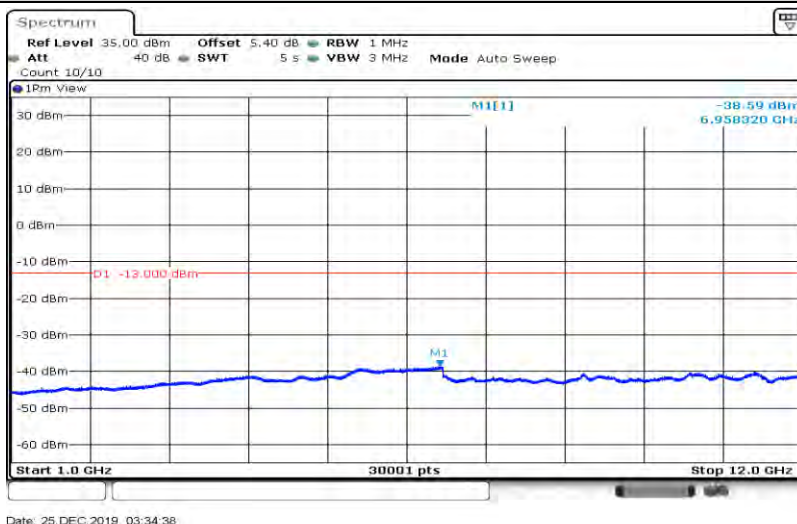


Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



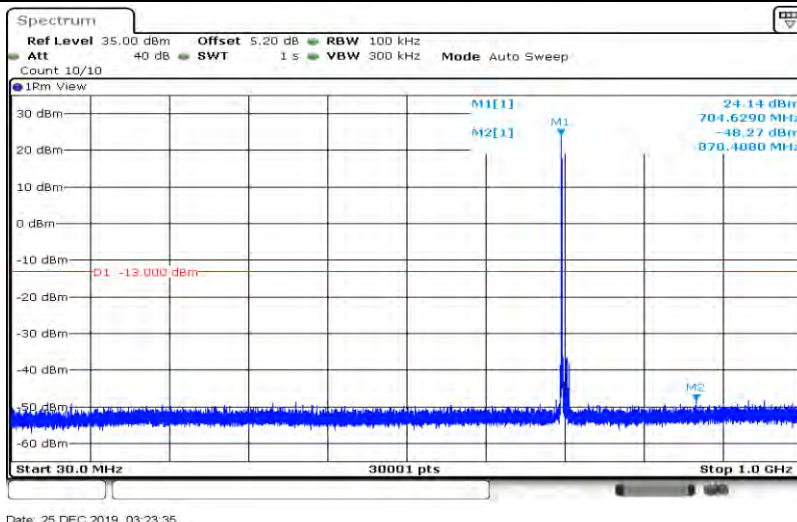


Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz

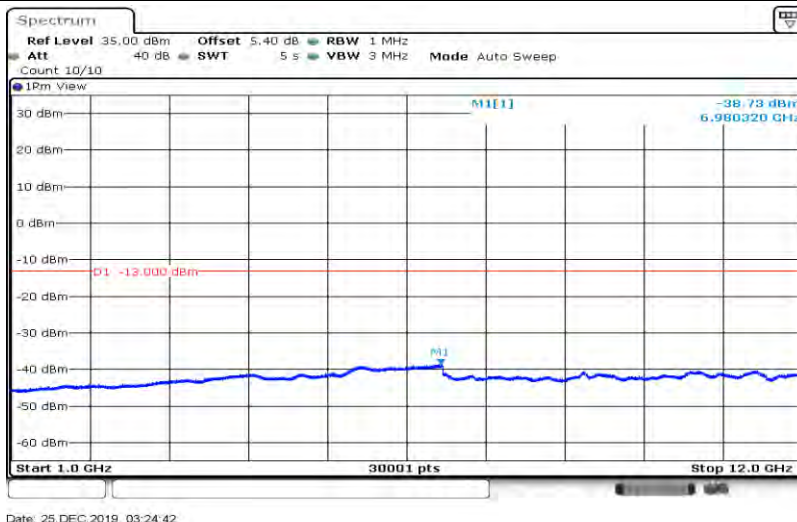


Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



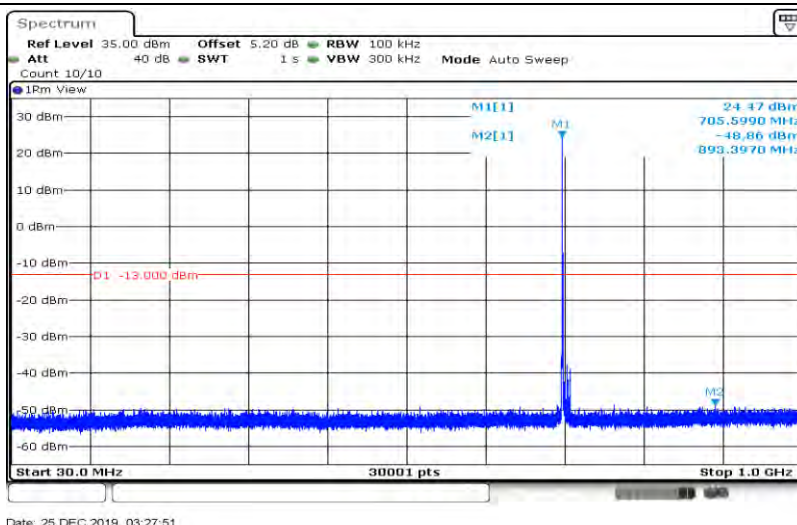


Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz

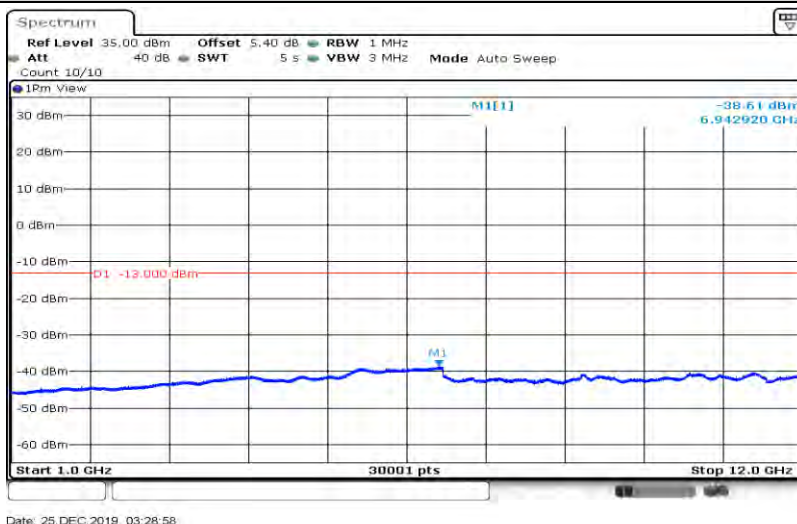


Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



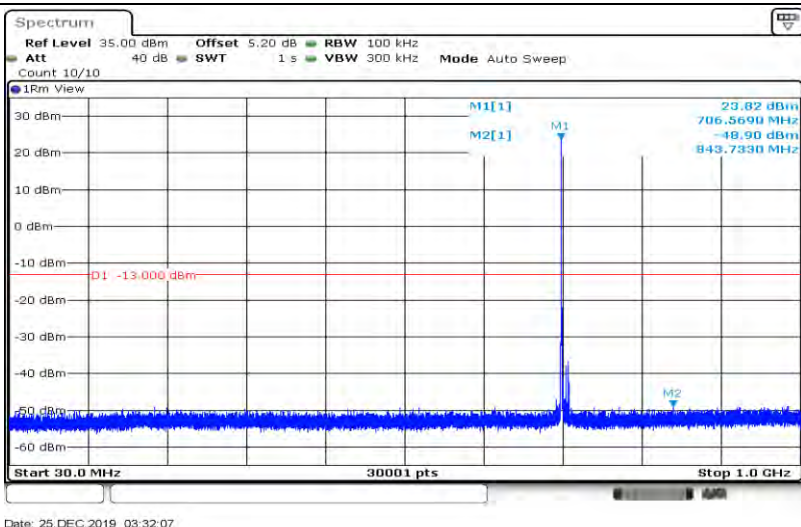


Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz

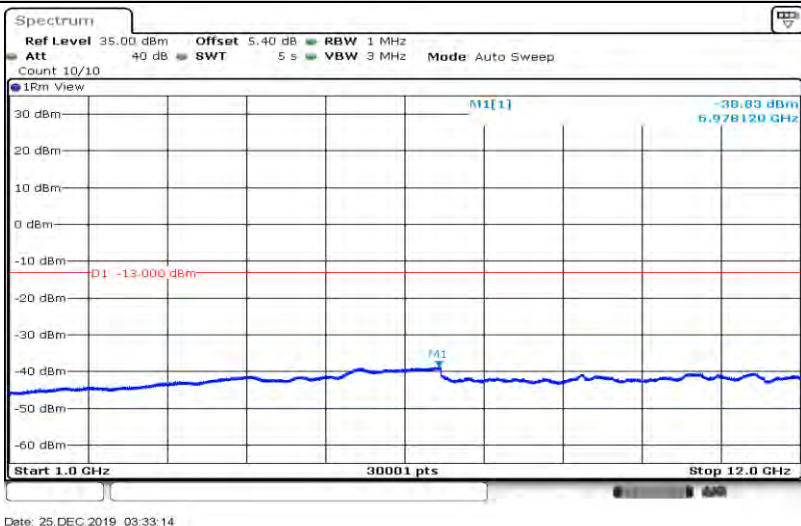


Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz





Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~12000MHz





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 (Ant0)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.9206	-65.36	-13.00	52.36	Vertical
515.6063	-66.66	-13.00	53.66	Vertical
999.7090	-57.15	-13.00	44.15	Vertical
2401.8804	-55.72	-13.00	42.72	Vertical
14480.2592	-47.99	-13.00	34.99	Vertical
17999.4000	-40.80	-13.00	27.80	Vertical
43.0957	-64.55	-13.00	51.55	Horizontal
229.4420	-67.74	-13.00	54.74	Horizontal
990.1055	-57.77	-13.00	44.77	Horizontal
2703.5407	-55.94	-13.00	42.94	Horizontal
9275.6510	-54.39	-13.00	41.39	Horizontal
16378.7351	-44.43	-13.00	31.43	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
118.3714	-65.23	-13.00	52.23	Vertical
446.2478	-66.79	-13.00	53.79	Vertical
3000.0000	-56.29	-13.00	43.29	Vertical
7382.5753	-56.59	-13.00	43.59	Vertical
14696.2679	-48.33	-13.00	35.33	Vertical
17999.4000	-40.49	-13.00	27.49	Vertical
41.3011	-65.11	-13.00	52.11	Horizontal
228.9569	-68.91	-13.00	55.91	Horizontal
994.3252	-57.43	-13.00	44.43	Horizontal
2699.1398	-55.99	-13.00	42.99	Horizontal
8001.8001	-57.16	-13.00	44.16	Horizontal
16396.1358	-44.25	-13.00	31.25	Horizontal



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

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

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



7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.2369	-73.35	-13.00	60.35	Vertical
110.7080	-64.71	-13.00	51.71	Vertical
554.8932	-65.10	-13.00	52.10	Vertical
2711.1422	-57.29	-13.00	44.29	Vertical
7351.3741	-56.60	-13.00	43.60	Vertical
17996.9999	-40.47	-13.00	27.47	Vertical
43.8717	-64.30	-13.00	51.30	Horizontal
231.5276	-68.55	-13.00	55.55	Horizontal
996.5078	-56.27	-13.00	43.27	Horizontal
1412.8826	-64.39	-13.00	51.39	Horizontal
2706.7413	-56.02	-13.00	43.02	Horizontal
16376.9351	-44.09	-13.00	31.09	Horizontal

7.2. Test Mode =LTE/TM1 (Ant1)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.8421	-65.57	-13.00	52.57	Vertical
567.7949	-66.12	-13.00	53.12	Vertical
998.5449	-56.56	-13.00	43.56	Vertical
2998.7998	-56.39	-13.00	43.39	Vertical
14504.8602	-49.61	-13.00	36.61	Vertical
17999.4000	-43.75	-13.00	30.75	Vertical
43.5322	-63.70	-13.00	50.70	Horizontal
243.4107	-68.72	-13.00	55.72	Horizontal
981.3751	-57.15	-13.00	44.15	Horizontal
2700.3401	-56.07	-13.00	43.07	Horizontal
9553.4621	-54.41	-13.00	41.41	Horizontal
16396.1358	-45.49	-13.00	32.49	Horizontal





7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.8763	-65.35	-13.00	52.35	Vertical
582.8306	-65.74	-13.00	52.74	Vertical
994.0827	-56.69	-13.00	43.69	Vertical
2987.5975	-56.68	-13.00	43.68	Vertical
14480.2592	-50.21	-13.00	37.21	Vertical
17999.4000	-44.62	-13.00	31.62	Vertical
40.4765	-64.61	-13.00	51.61	Horizontal
235.9898	-68.37	-13.00	55.37	Horizontal
995.7803	-55.48	-13.00	42.48	Horizontal
2998.7998	-56.61	-13.00	43.61	Horizontal
9570.8628	-54.82	-13.00	41.82	Horizontal
16379.3352	-47.22	-13.00	34.22	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7380	-65.15	-13.00	52.15	Vertical
517.6434	-65.89	-13.00	52.89	Vertical
996.6533	-57.27	-13.00	44.27	Vertical
2991.9984	-56.71	-13.00	43.71	Vertical
14480.2592	-50.98	-13.00	37.98	Vertical
17999.4000	-46.09	-13.00	33.09	Vertical
43.6292	-64.19	-13.00	51.19	Horizontal
241.8101	-68.72	-13.00	55.72	Horizontal
996.4593	-56.47	-13.00	43.47	Horizontal
2701.1402	-56.12	-13.00	43.12	Horizontal
7488.1795	-58.29	-13.00	45.29	Horizontal
16388.9356	-48.60	-13.00	35.60	Horizontal

Remark:

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





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-1.80	-0.002539	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-8.00	-0.011283	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-4.20	-0.005924	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-5.00	-0.007042	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-4.90	-0.006901	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	1.40	0.001969	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-5.30	-0.007454	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-2.40	-0.003385	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-3.20	-0.004513	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	0.90	0.001269	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-2.10	-0.002958	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	2.00	0.002817	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	3.80	0.005352	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.20	-0.003094	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-4.30	-0.006048	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	2.40	0.003376	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	0.60	0.000846	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-5.80	-0.008181	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-6.20	-0.008745	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	2.10	0.002958	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-3.20	-0.004507	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-2.30	-0.003235	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	0.00	0.000000	±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
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-4.50	-0.006347	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-1.40	-0.001975	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-6.30	-0.008886	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-4.00	-0.005642	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-7.40	-0.010437	±2.5	PASS



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

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



Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.90	-0.005493	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-2.10	-0.002958	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	3.70	0.005211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.60	-0.000845	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-4.70	-0.006620	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	1.80	0.002535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	1.50	0.002113	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-3.50	-0.004923	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	1.60	0.002250	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	2.30	0.003235	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	0.30	0.000422	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	2.20	0.003094	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-1.50	-0.002110	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.70	0.003797	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-0.40	-0.000564	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	0.60	0.000846	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-5.80	-0.008181	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-6.50	-0.009168	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-5.70	-0.008039	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	-6.40	-0.009027	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-4.20	-0.005915	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-1.40	-0.001972	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	0.10	0.000141	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	1.70	0.002394	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	3.20	0.004507	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	2.40	0.003380	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	-1.20	-0.001690	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-1.00	-0.001408	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-0.20	-0.000281	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-4.70	-0.006610	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-4.00	-0.005626	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-1.10	-0.001551	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-1.30	-0.001834	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-1.50	-0.002116	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-1.70	-0.002398	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-2.30	-0.003244	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-0.50	-0.000705	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-4.20	-0.005924	±2.5	PASS



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

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

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

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



Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-4.20	-0.005915	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-6.20	-0.008732	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	1.60	0.002254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-3.10	-0.004366	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	1.90	0.002676	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-8.10	-0.011408	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-0.30	-0.000422	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-0.60	-0.000844	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-2.60	-0.003657	±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	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-1.00	-0.001406	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-2.70	-0.003797	±2.5	PASS

The End



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

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