



# Appendix B

## E-UTRA Band 38



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



**CONTENT**

**1 EFFECTIVE (ISOTROPIC) RADIATED POWER ..... 3**

1.1. TEST RESULT ..... 3

**2. PEAK-TO-AVERAGE RATIO (CCDF)..... 11**

2.1. TEST RESULT ..... 11

2.2. TEST PLOTS..... 11

**3. MODULATION CHARACTERISTICS..... 16**

3.1. TEST MODE = LTE /TM1 20MHZ..... 16

3.1.1. TEST CHANNEL = MCH ..... 16

3.2. TEST MODE = LTE /TM2 20MHZ..... 17

3.2.1. TEST CHANNEL = MCH ..... 17

3.3. TEST MODE = LTE /TM3 20MHZ..... 18

3.3.1. TEST CHANNEL = MCH ..... 18

**4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH ..... 19**

4.1. TEST RESULT ..... 19

4.2. TEST PLOTS..... 20

**5. BAND EDGE COMPLIANCE ..... 39**

5.1. TEST RESULT ..... 39

5.2. TEST PLOTS..... 40

**6. SPURIOUS EMISSION AT ANTENNA TERMINAL ..... 65**

6.1. TEST PLOTS..... 65

**7. FIELD STRENGTH OF SPURIOUS RADIATION ..... 75**

7.1. TEST MODE =LTE/TM1 20MHZ..... 75

7.1.1. TEST CHANNEL = LCH ..... 75

7.1.2. TEST CHANNEL = MCH ..... 75

7.1.3. TEST CHANNEL = HCH ..... 76

**8. FREQUENCY STABILITY ..... 77**

8.1. FREQUENCY VS VOLTAGE..... 77

8.2. FREQUENCY VS TEMPERATURE ..... 78



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



# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.22	21.82	33	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.10	21.70	33	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.97	21.57	33	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.14	20.74	33	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.23	20.83	33	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.11	20.71	33	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.17	20.77	33	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.82	21.42	33	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.96	21.56	33	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.83	21.43	33	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.02	20.62	33	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.97	20.57	33	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.91	20.51	33	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.97	20.57	33	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.36	20.96	33	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.61	21.21	33	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.28	20.88	33	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.46	20.06	33	PASS
Band38	5MHz	QPSK	38225	12RB#6	21.48	20.08	33	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.54	20.14	33	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.54	20.14	33	PASS
Band38	5MHz	64QAM	37775	1RB#0	21.54	20.14	33	PASS
Band38	5MHz	64QAM	37775	1RB#24	21.32	19.92	33	PASS
Band38	5MHz	64QAM	37775	1RB#12	21.50	20.10	33	PASS
Band38	5MHz	64QAM	37775	12RB#0	20.38	18.98	33	PASS
Band38	5MHz	64QAM	37775	12RB#6	20.29	18.89	33	PASS
Band38	5MHz	64QAM	37775	12RB#13	20.33	18.93	33	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-DocumentL.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](mailto: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



Band38	5MHz	64QAM	37775	25RB#0	20.34	18.94	33	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.18	19.78	33	PASS
Band38	5MHz	64QAM	38000	1RB#12	21.35	19.95	33	PASS
Band38	5MHz	64QAM	38000	1RB#24	21.15	19.75	33	PASS
Band38	5MHz	64QAM	38000	12RB#13	20.07	18.67	33	PASS
Band38	5MHz	64QAM	38000	12RB#6	20.11	18.71	33	PASS
Band38	5MHz	64QAM	38000	12RB#0	20.12	18.72	33	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.12	18.72	33	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.01	19.61	33	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.00	19.60	33	PASS
Band38	5MHz	64QAM	38225	1RB#24	20.78	19.38	33	PASS
Band38	5MHz	64QAM	38225	12RB#0	19.67	18.27	33	PASS
Band38	5MHz	64QAM	38225	12RB#6	19.67	18.27	33	PASS
Band38	5MHz	64QAM	38225	12RB#13	19.63	18.23	33	PASS
Band38	5MHz	64QAM	38225	25RB#0	19.65	18.25	33	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.53	21.13	33	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.35	20.95	33	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.39	20.99	33	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.25	19.85	33	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.29	19.89	33	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.32	19.92	33	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.20	19.80	33	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.26	20.86	33	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.18	20.78	33	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.12	20.72	33	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.11	19.71	33	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.07	19.67	33	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.02	19.62	33	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.94	19.54	33	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.82	20.42	33	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.64	20.24	33	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.63	20.23	33	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.62	19.22	33	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-DocumentL.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](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch 检验检测专用章  
 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



Band38	5MHz	16QAM	38225	12RB#6	20.61	19.21	33	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.53	19.13	33	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.53	19.13	33	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.76	21.36	33	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.20	21.80	33	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.34	21.94	33	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.15	20.75	33	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.32	20.92	33	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.11	20.71	33	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.18	20.78	33	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.99	21.59	33	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.82	21.42	33	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.00	21.60	33	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.98	20.58	33	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.02	20.62	33	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.97	20.57	33	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.99	20.59	33	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.36	20.96	33	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.77	21.37	33	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.80	21.40	33	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.57	20.17	33	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.70	20.30	33	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.65	20.25	33	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.65	20.25	33	PASS
Band38	10MHz	64QAM	37800	1RB#24	21.48	20.08	33	PASS
Band38	10MHz	64QAM	37800	1RB#49	21.12	19.72	33	PASS
Band38	10MHz	64QAM	37800	1RB#0	21.62	20.22	33	PASS
Band38	10MHz	64QAM	37800	25RB#0	20.40	19.00	33	PASS
Band38	10MHz	64QAM	37800	25RB#12	20.31	18.91	33	PASS
Band38	10MHz	64QAM	37800	25RB#25	20.26	18.86	33	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.32	18.92	33	PASS
Band38	10MHz	64QAM	38000	1RB#49	21.05	19.65	33	PASS
Band38	10MHz	64QAM	38000	1RB#0	21.27	19.87	33	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-DocumentL.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](mailto:CN.Doccheck@sgs.com)

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



Band38	10MHz	64QAM	38000	1RB#24	21.35	19.95	33	PASS
Band38	10MHz	64QAM	38000	25RB#0	20.41	19.01	33	PASS
Band38	10MHz	64QAM	38000	25RB#12	20.14	18.74	33	PASS
Band38	10MHz	64QAM	38000	25RB#25	20.17	18.77	33	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.11	18.71	33	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.13	19.73	33	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.65	19.25	33	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.11	19.71	33	PASS
Band38	10MHz	64QAM	38200	25RB#25	19.75	18.35	33	PASS
Band38	10MHz	64QAM	38200	25RB#0	19.78	18.38	33	PASS
Band38	10MHz	64QAM	38200	25RB#12	19.72	18.32	33	PASS
Band38	10MHz	64QAM	38200	50RB#0	19.78	18.38	33	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.53	21.13	33	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.37	20.97	33	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.53	21.13	33	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.19	19.79	33	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.19	19.79	33	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.17	19.77	33	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.26	19.86	33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.37	20.97	33	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.29	20.89	33	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.19	20.79	33	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.99	19.59	33	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.97	19.57	33	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.94	19.54	33	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.09	19.69	33	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.05	20.65	33	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.91	20.51	33	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.80	20.40	33	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.70	19.30	33	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.61	19.21	33	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.58	19.18	33	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.73	19.33	33	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-DocumentL.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](mailto:CN.Doccheck@sgs.com)

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



Band38	15MHz	QPSK	37825	1RB#74	22.94	21.54	33	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.92	21.52	33	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.20	21.80	33	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.09	20.69	33	PASS
Band38	15MHz	QPSK	37825	36RB#18	22.21	20.81	33	PASS
Band38	15MHz	QPSK	37825	36RB#0	22.21	20.81	33	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.16	20.76	33	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.95	21.55	33	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.90	21.50	33	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.73	21.33	33	PASS
Band38	15MHz	QPSK	38000	36RB#0	21.92	20.52	33	PASS
Band38	15MHz	QPSK	38000	36RB#18	21.99	20.59	33	PASS
Band38	15MHz	QPSK	38000	36RB#39	21.86	20.46	33	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.95	20.55	33	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.68	21.28	33	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.58	21.18	33	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.33	20.93	33	PASS
Band38	15MHz	QPSK	38175	36RB#0	21.64	20.24	33	PASS
Band38	15MHz	QPSK	38175	36RB#18	21.60	20.20	33	PASS
Band38	15MHz	QPSK	38175	36RB#39	21.55	20.15	33	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.59	20.19	33	PASS
Band38	15MHz	64QAM	37825	1RB#74	21.20	19.80	33	PASS
Band38	15MHz	64QAM	37825	1RB#38	21.28	19.88	33	PASS
Band38	15MHz	64QAM	37825	1RB#0	21.48	20.08	33	PASS
Band38	15MHz	64QAM	37825	36RB#0	20.26	18.86	33	PASS
Band38	15MHz	64QAM	37825	36RB#18	20.22	18.82	33	PASS
Band38	15MHz	64QAM	37825	36RB#39	20.21	18.81	33	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.27	18.87	33	PASS
Band38	15MHz	64QAM	38000	1RB#38	21.22	19.82	33	PASS
Band38	15MHz	64QAM	38000	1RB#74	21.15	19.75	33	PASS
Band38	15MHz	64QAM	38000	1RB#0	21.29	19.89	33	PASS
Band38	15MHz	64QAM	38000	36RB#39	19.92	18.52	33	PASS
Band38	15MHz	64QAM	38000	36RB#0	20.02	18.62	33	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-DocumentL.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

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



Band38	15MHz	64QAM	38000	36RB#18	20.04	18.64	33	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.05	18.65	33	PASS
Band38	15MHz	64QAM	38175	1RB#0	21.01	19.61	33	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.03	19.63	33	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.80	19.40	33	PASS
Band38	15MHz	64QAM	38175	36RB#18	19.66	18.26	33	PASS
Band38	15MHz	64QAM	38175	36RB#0	19.72	18.32	33	PASS
Band38	15MHz	64QAM	38175	36RB#39	19.61	18.21	33	PASS
Band38	15MHz	64QAM	38175	75RB#0	19.65	18.25	33	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.38	20.98	33	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.45	21.05	33	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.26	20.86	33	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.30	19.90	33	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.18	19.78	33	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.25	19.85	33	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.24	19.84	33	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.16	20.76	33	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.03	20.63	33	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.22	20.82	33	PASS
Band38	15MHz	16QAM	38000	36RB#0	20.98	19.58	33	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.00	19.60	33	PASS
Band38	15MHz	16QAM	38000	36RB#39	20.94	19.54	33	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.03	19.63	33	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.85	20.45	33	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.76	20.36	33	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.57	20.17	33	PASS
Band38	15MHz	16QAM	38175	36RB#0	20.74	19.34	33	PASS
Band38	15MHz	16QAM	38175	36RB#18	20.67	19.27	33	PASS
Band38	15MHz	16QAM	38175	36RB#39	20.62	19.22	33	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.65	19.25	33	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.21	21.81	33	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.88	21.48	33	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.77	21.37	33	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch 检验检测专用章  
Shenzhen Branch 深圳分公司 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



Band38	20MHz	QPSK	37850	50RB#25	22.13	20.73	33	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.16	20.76	33	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.07	20.67	33	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.13	20.73	33	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.62	21.22	33	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.00	21.60	33	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.84	21.44	33	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.94	20.54	33	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.00	20.60	33	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.83	20.43	33	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.92	20.52	33	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.79	21.39	33	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.81	21.41	33	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.32	20.92	33	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.58	20.18	33	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.68	20.28	33	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.52	20.12	33	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.60	20.20	33	PASS
Band38	20MHz	64QAM	37850	1RB#0	21.50	20.10	33	PASS
Band38	20MHz	64QAM	37850	1RB#49	21.32	19.92	33	PASS
Band38	20MHz	64QAM	37850	1RB#99	21.16	19.76	33	PASS
Band38	20MHz	64QAM	37850	50RB#50	20.16	18.76	33	PASS
Band38	20MHz	64QAM	37850	50RB#0	20.30	18.90	33	PASS
Band38	20MHz	64QAM	37850	50RB#25	20.23	18.83	33	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.20	18.80	33	PASS
Band38	20MHz	64QAM	38000	1RB#0	21.35	19.95	33	PASS
Band38	20MHz	64QAM	38000	1RB#49	21.28	19.88	33	PASS
Band38	20MHz	64QAM	38000	1RB#99	21.01	19.61	33	PASS
Band38	20MHz	64QAM	38000	50RB#0	20.07	18.67	33	PASS
Band38	20MHz	64QAM	38000	50RB#25	20.10	18.70	33	PASS
Band38	20MHz	64QAM	38000	50RB#50	19.94	18.54	33	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.01	18.61	33	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.66	19.26	33	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-DocumentL.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](mailto:CN.Doccheck@sgs.com)

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



Band38	20MHz	64QAM	38150	1RB#0	21.13	19.73	33	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.20	19.80	33	PASS
Band38	20MHz	64QAM	38150	50RB#0	19.82	18.42	33	PASS
Band38	20MHz	64QAM	38150	50RB#50	19.68	18.28	33	PASS
Band38	20MHz	64QAM	38150	50RB#25	19.72	18.32	33	PASS
Band38	20MHz	64QAM	38150	100RB#0	19.66	18.26	33	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.45	21.05	33	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.39	20.99	33	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.27	20.87	33	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.23	19.83	33	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.22	19.82	33	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.13	19.73	33	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.22	19.82	33	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.23	20.83	33	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.92	20.52	33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.17	20.77	33	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.00	19.60	33	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.02	19.62	33	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.92	19.52	33	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.02	19.62	33	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.01	20.61	33	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.59	20.19	33	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.82	20.42	33	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.58	19.18	33	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.67	19.27	33	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.81	19.41	33	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.71	19.31	33	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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](mailto: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

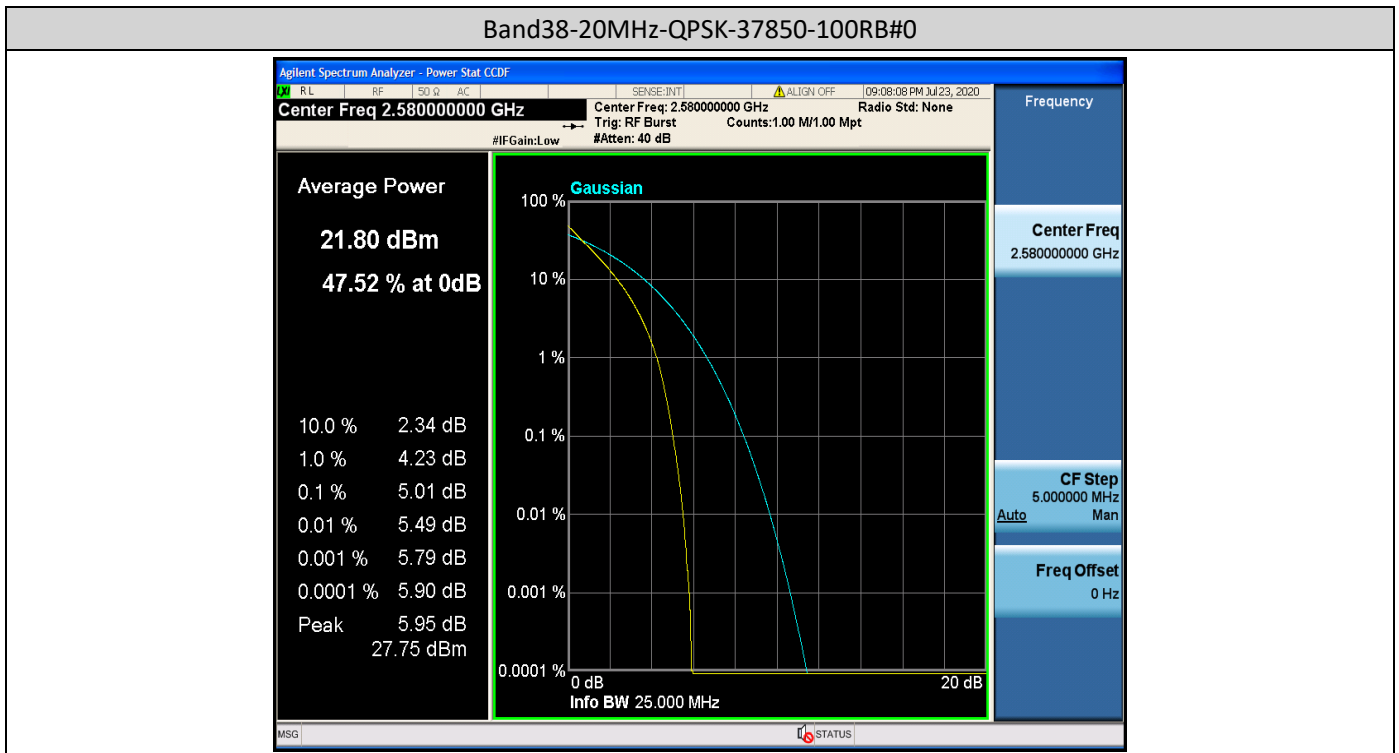


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	5.01	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	4.91	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	4.84	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	6.37	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	6.31	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	6.28	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.79	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	5.71	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	5.65	13	PASS

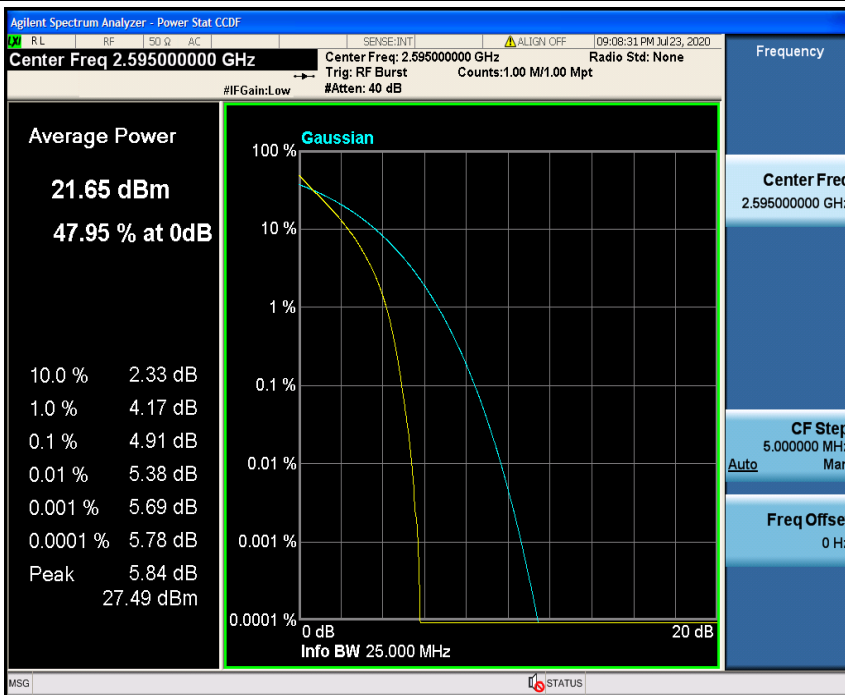
### 2.2. Test Plots



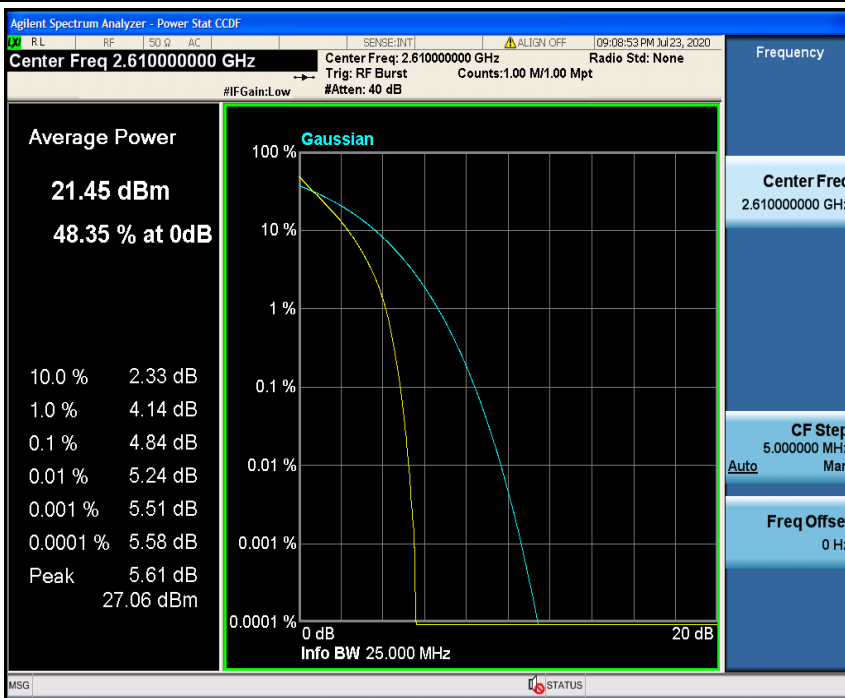
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-QPSK-38000-100RB#0



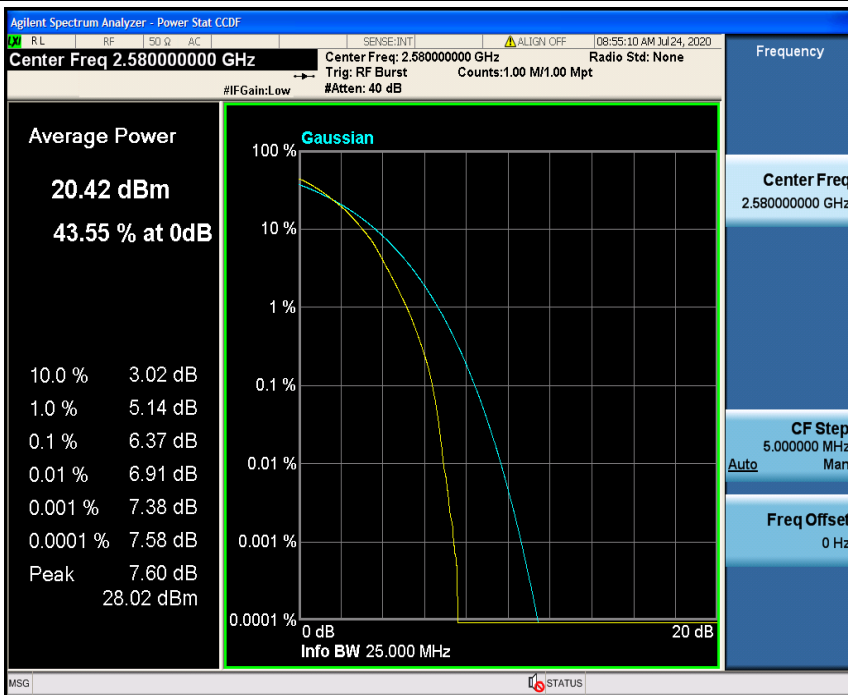
Band38-20MHz-QPSK-38150-100RB#0



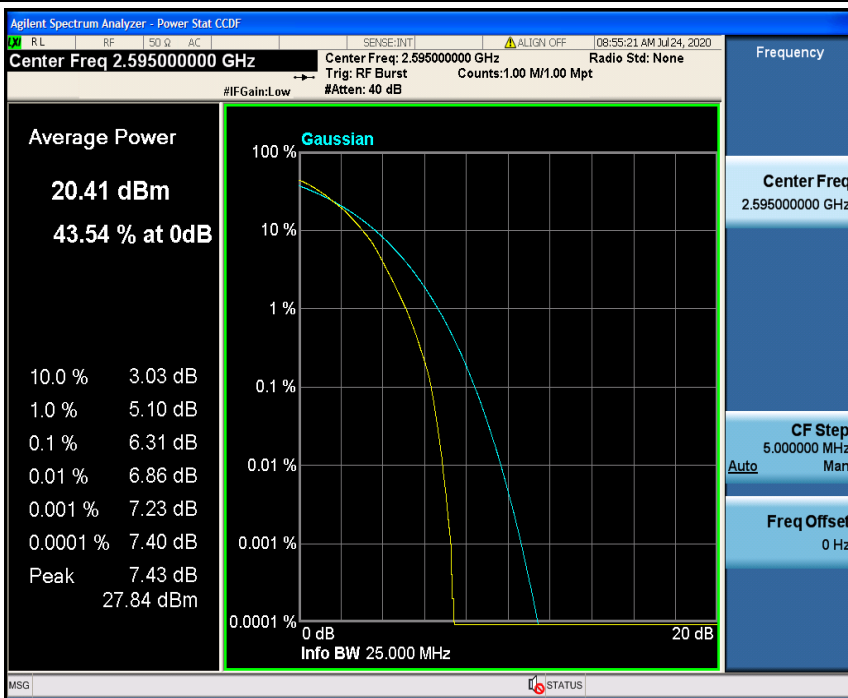
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-37850-100RB#0



Band38-20MHz-64QAM-38000-100RB#0



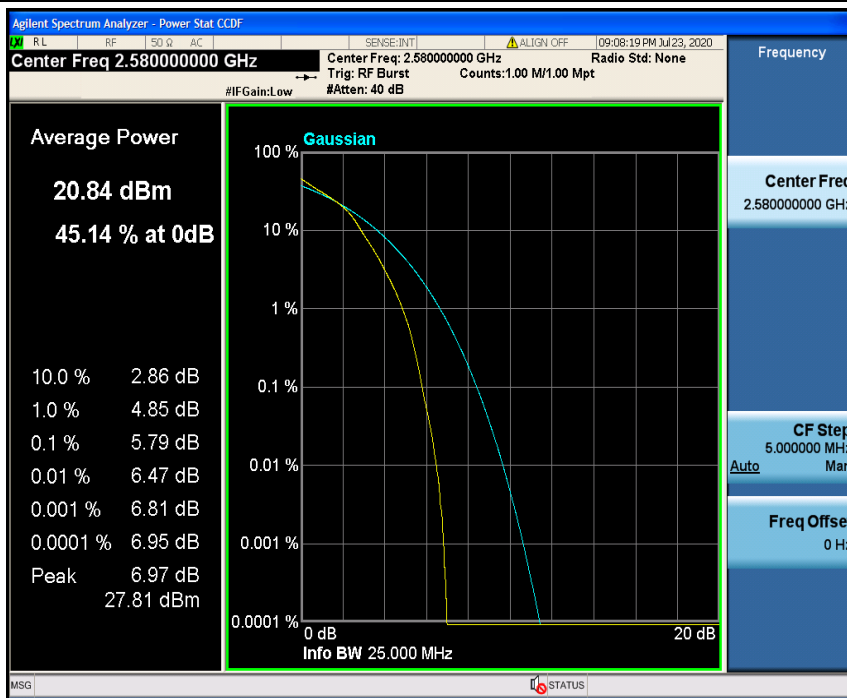
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-38150-100RB#0



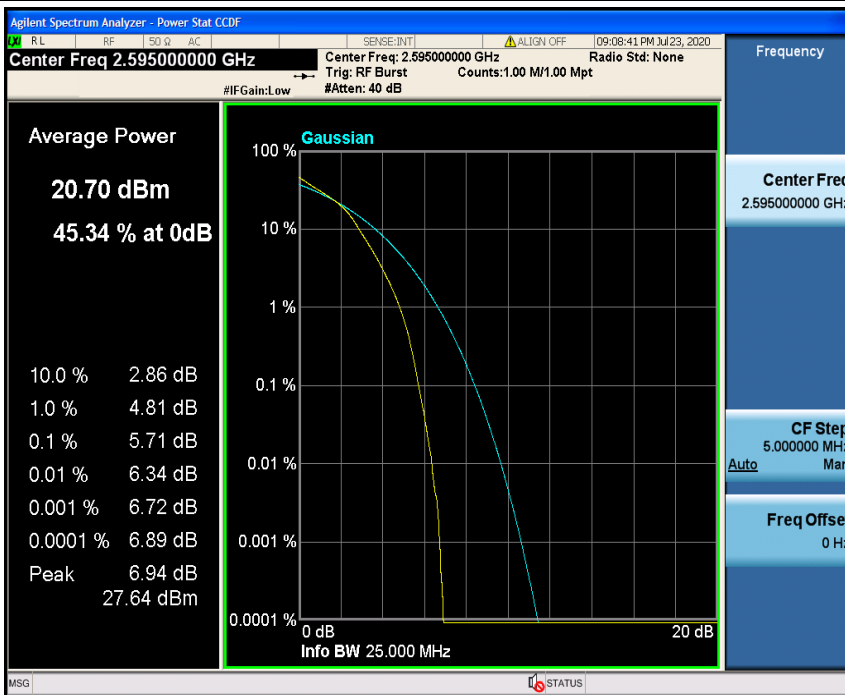
Band38-20MHz-16QAM-37850-100RB#0



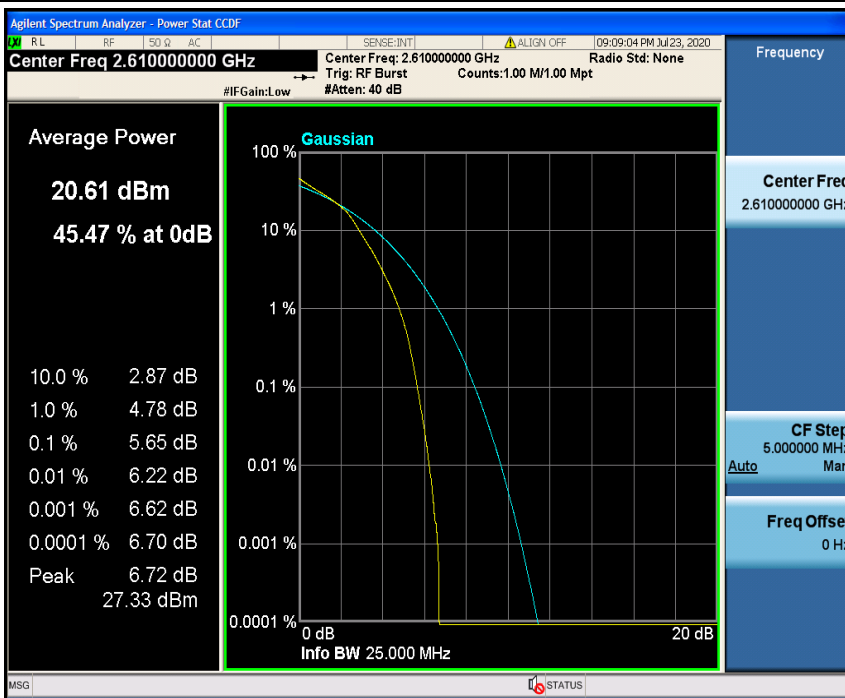
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



**Band38-20MHz-16QAM-38000-100RB#0**



**Band38-20MHz-16QAM-38150-100RB#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.

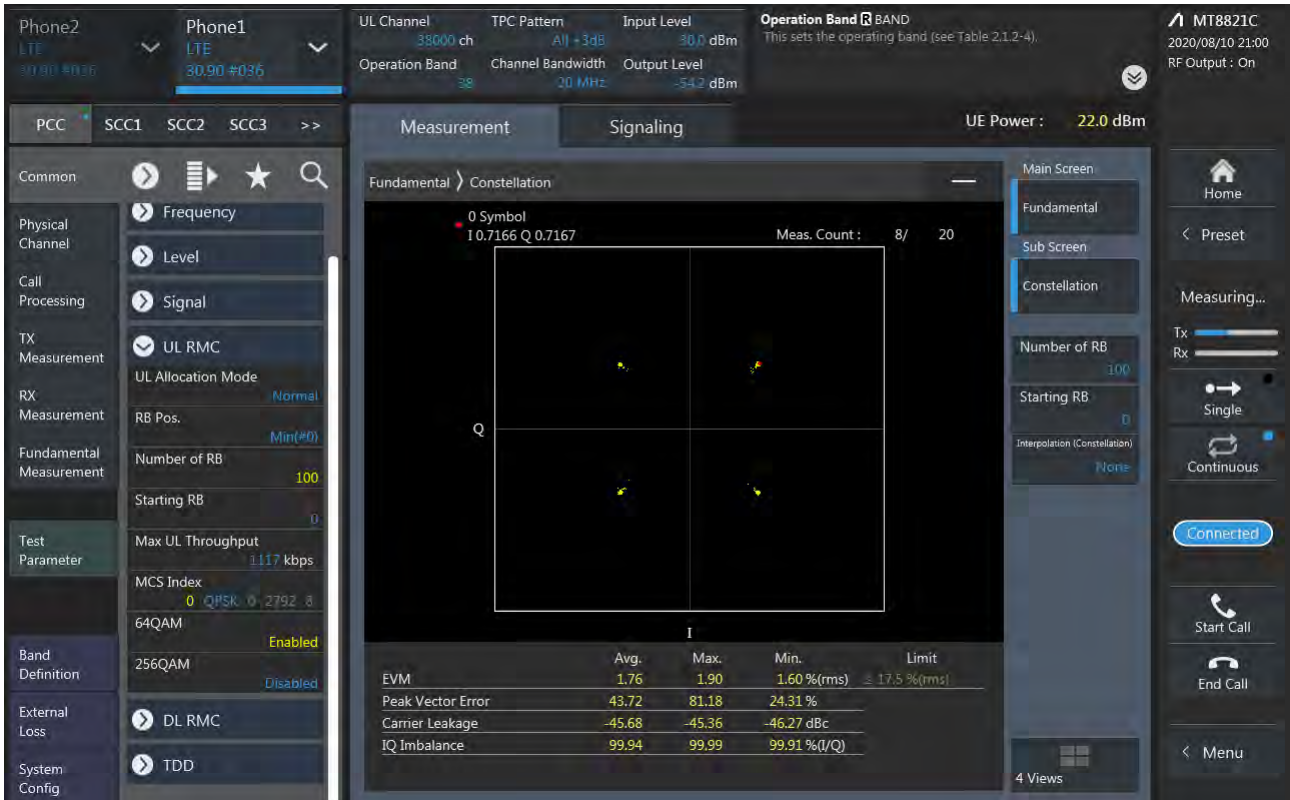
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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 20MHz

##### 3.1.1. Test Channel = MCH

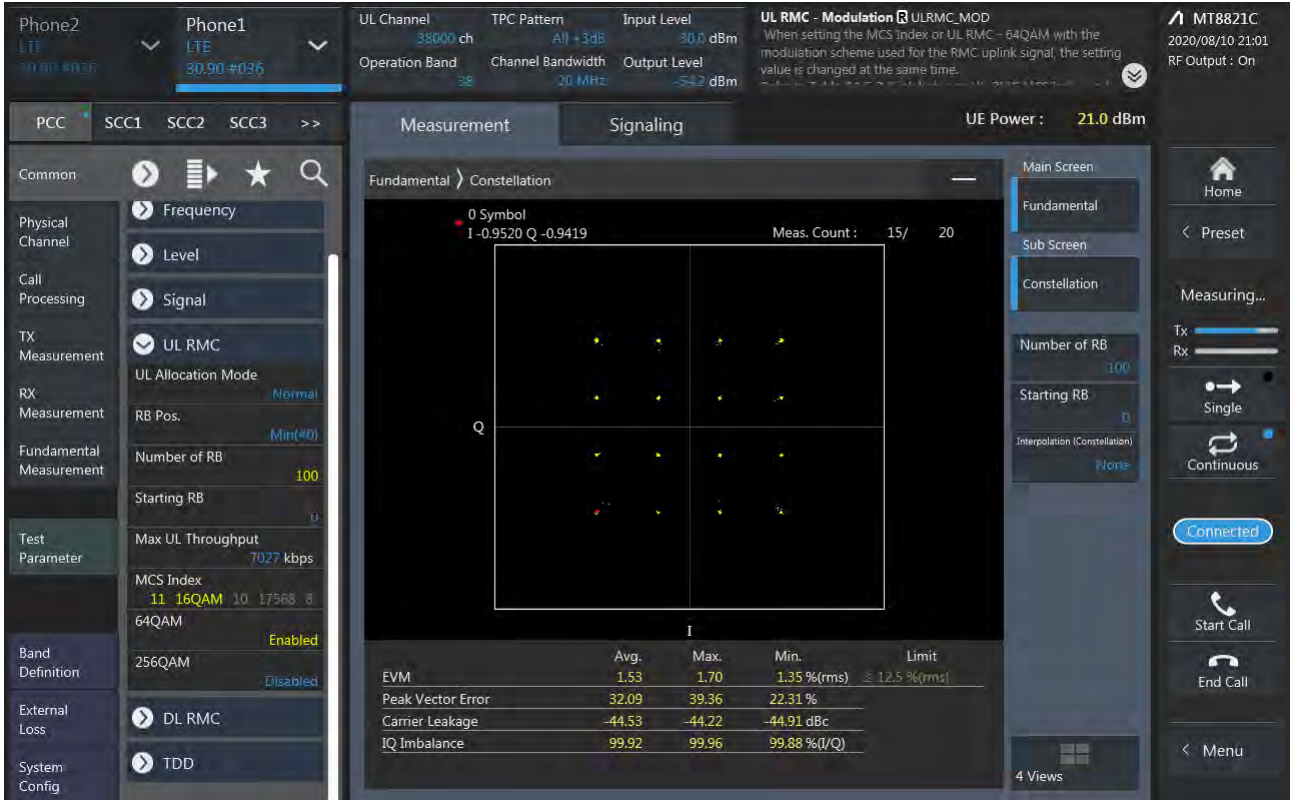


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH

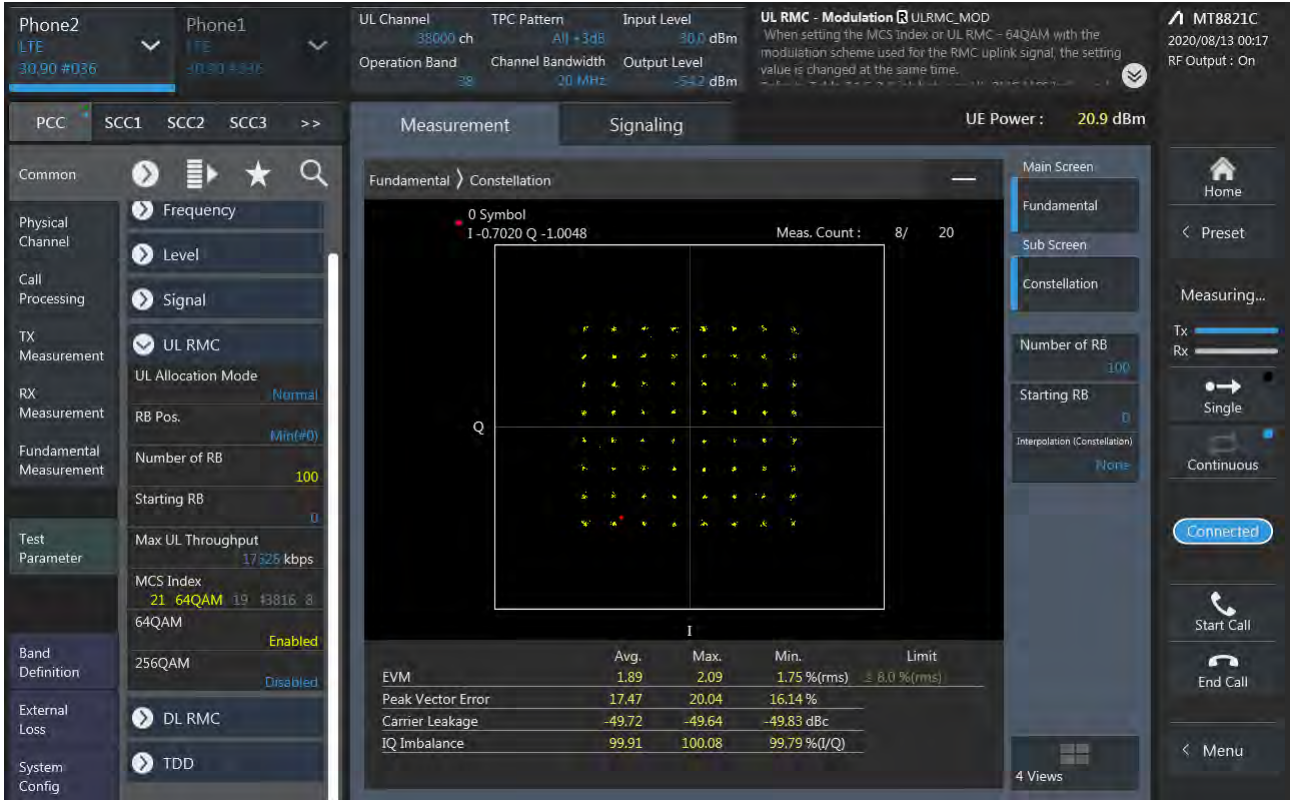


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



### 3.3. Test Mode = LTE /TM3 20MHz

#### 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-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.



## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4684	4.952	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4725	4.950	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4685	4.937	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.4849	5.109	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.4790	5.084	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.4810	5.026	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4902	4.924	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.4885	4.936	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4918	4.928	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9019	9.654	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9126	9.705	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9243	9.748	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.9286	9.671	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.9310	9.657	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.9268	9.669	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9068	9.606	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9096	9.580	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9222	9.626	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.490	16.14	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.482	15.89	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.455	15.17	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.460	14.79	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.444	14.94	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.426	14.69	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.451	15.28	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.442	14.85	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.446	14.71	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.923	19.32	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.921	19.41	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.904	19.50	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.881	19.44	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.

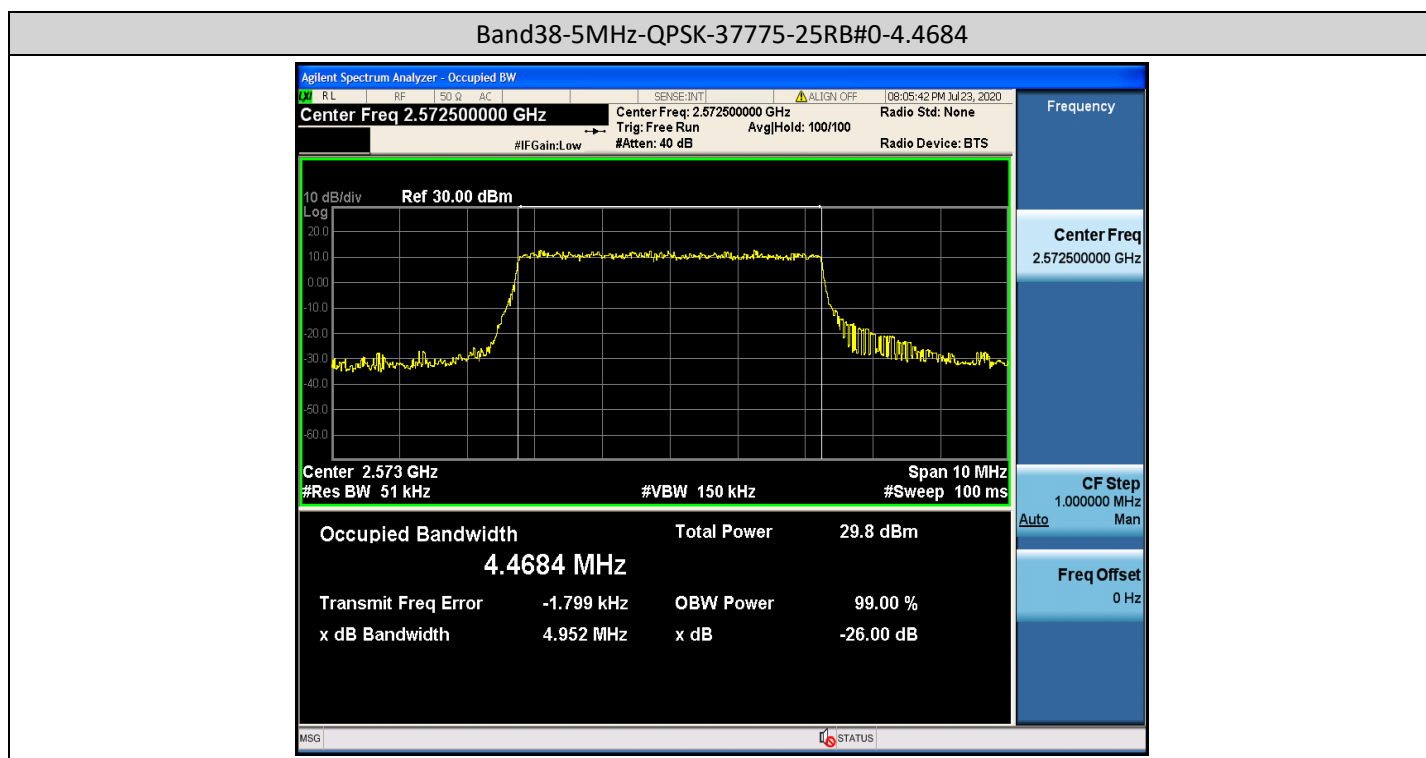
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch 检测实验室

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



Band38	20MHz	64QAM	38000	100RB#0	17.878	19.19	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.841	19.23	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.885	19.91	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.859	19.94	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.860	20.02	PASS

## 4.2. Test Plots

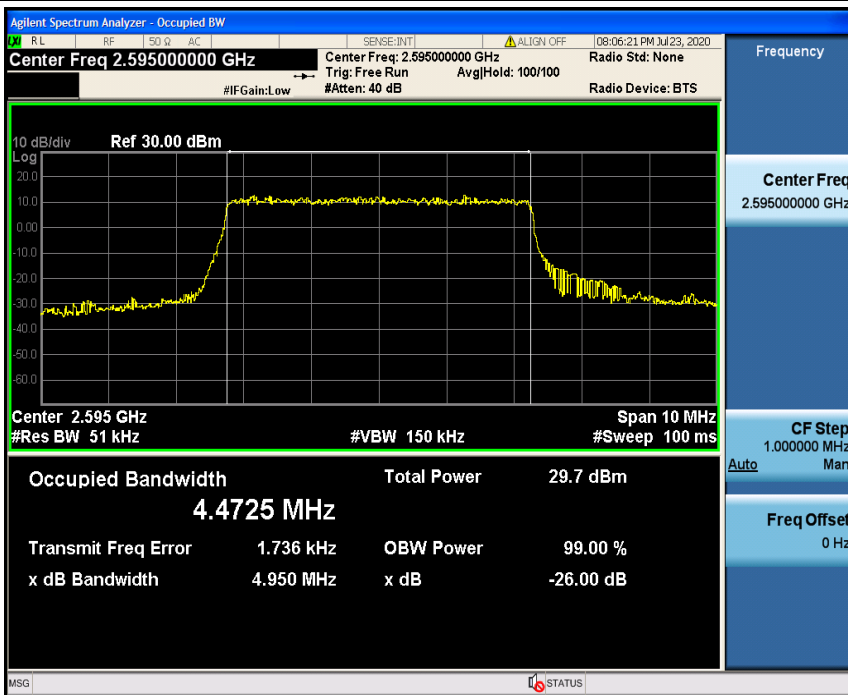


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

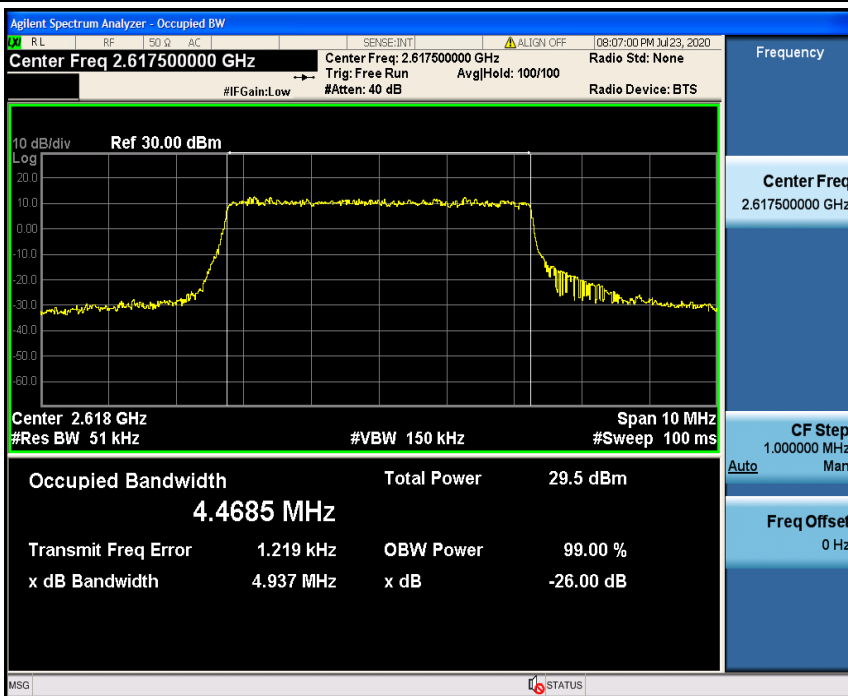
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Band38-5MHz-QPSK-38000-25RB#0-4.4725



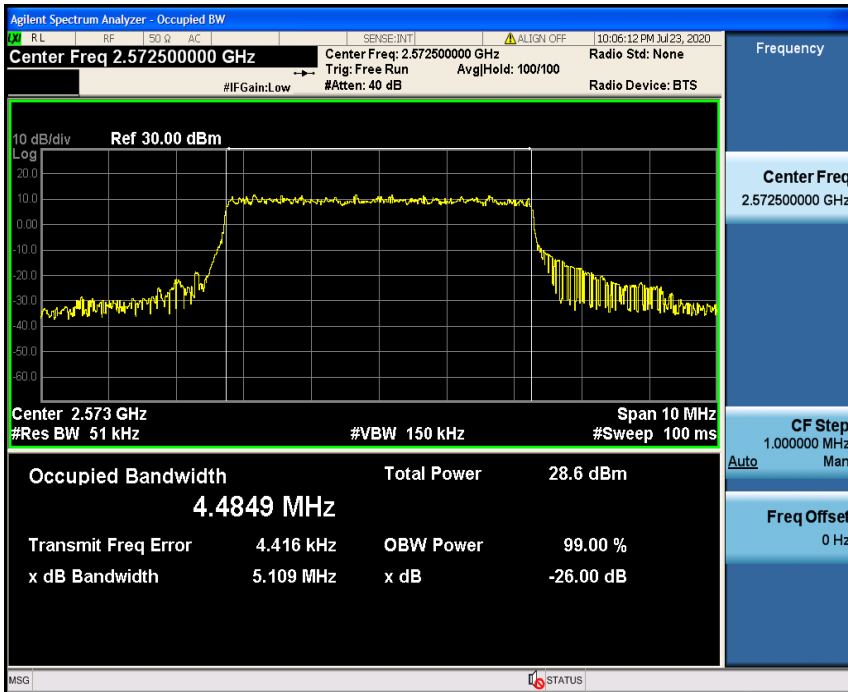
Band38-5MHz-QPSK-38225-25RB#0-4.4685



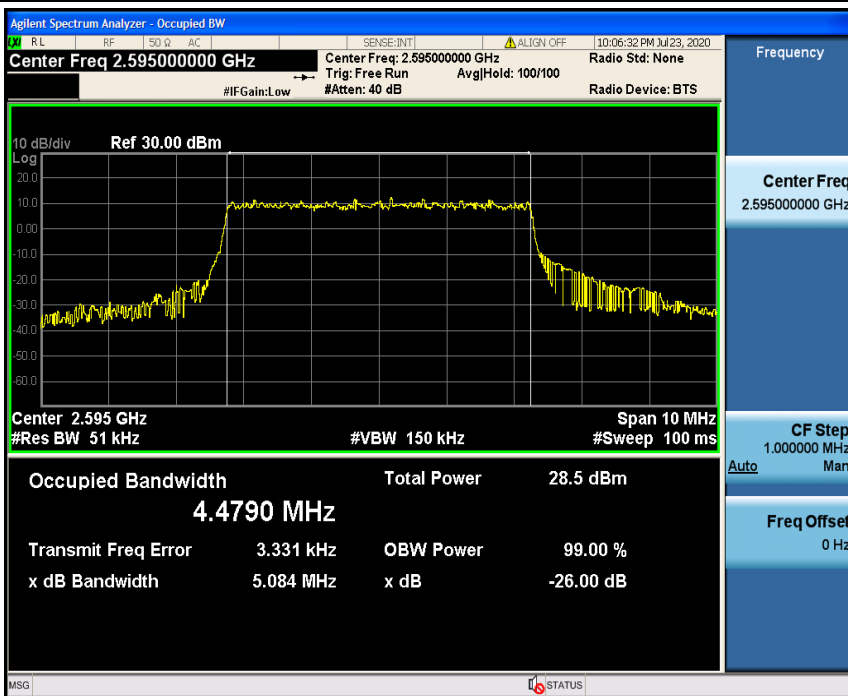
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-5MHz-64QAM-37775-25RB#0-4.4849



Band38-5MHz-64QAM-38000-25RB#0-4.4790



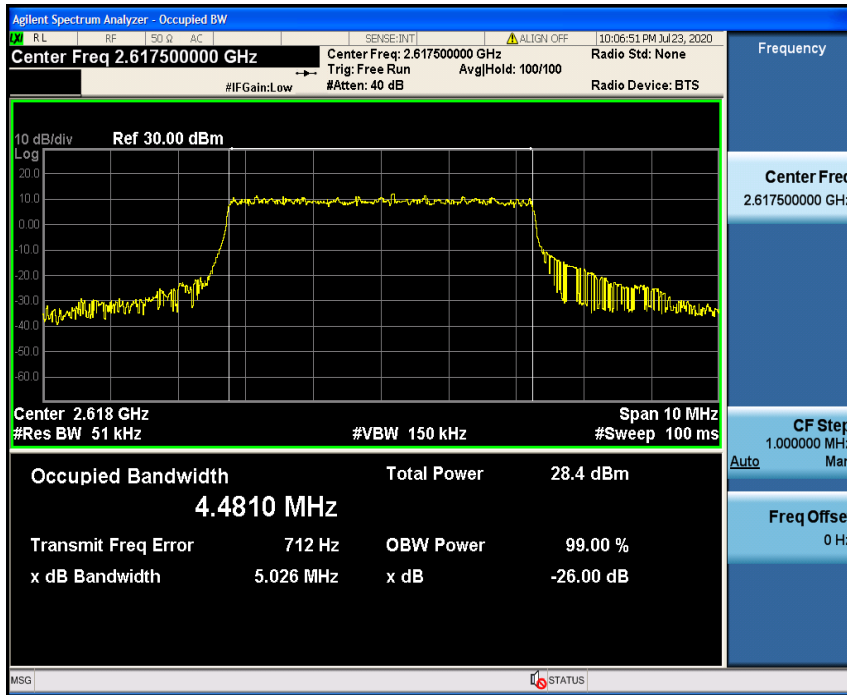
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

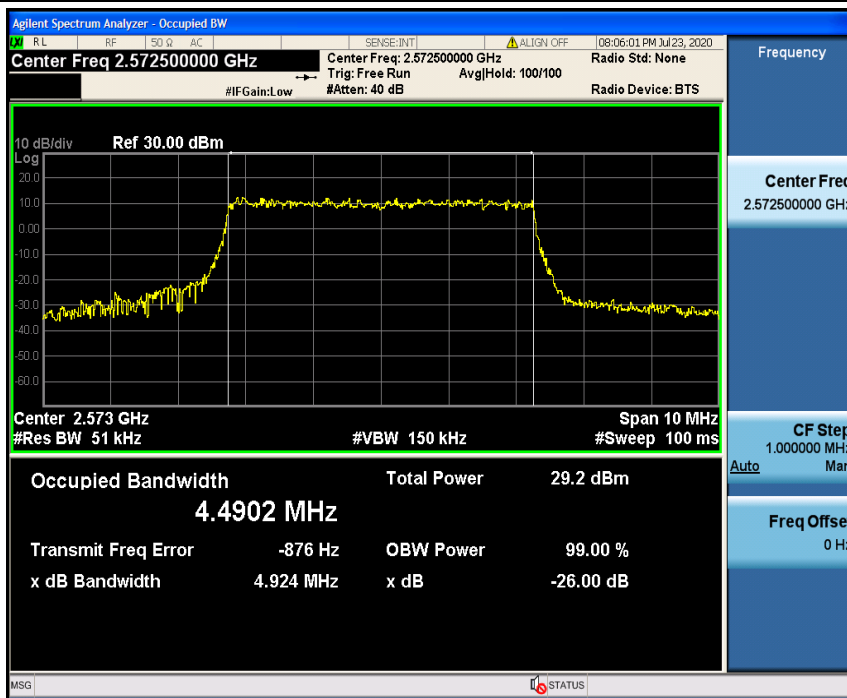
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-5MHz-64QAM-38225-25RB#0-4.4810**



**Band38-5MHz-16QAM-37775-25RB#0-4.4902**



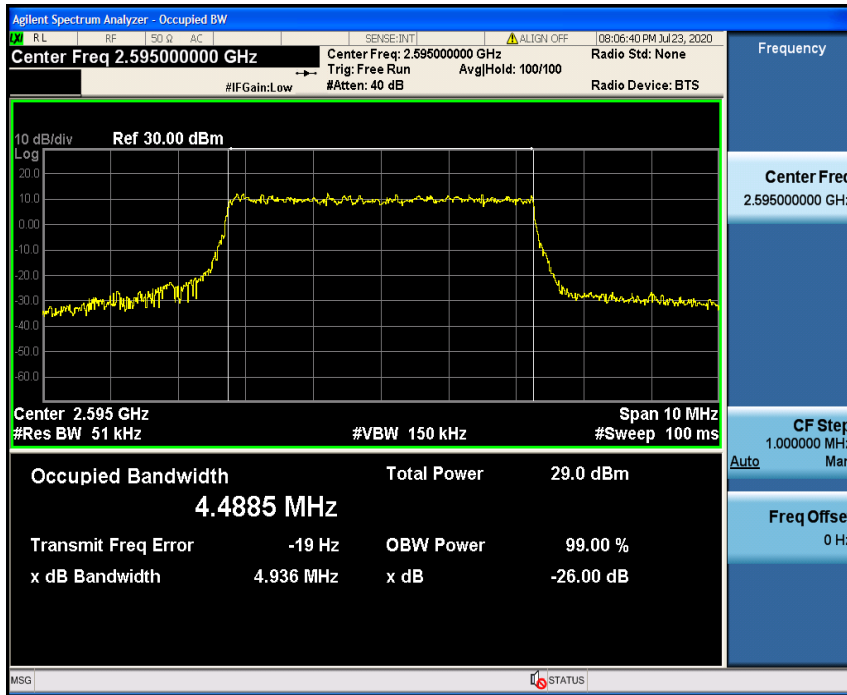
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

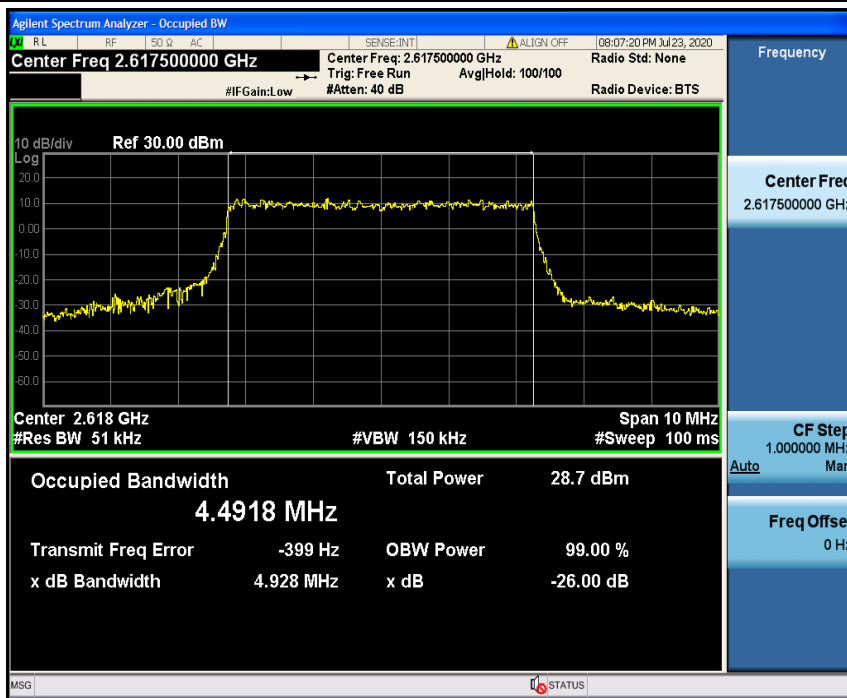
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
Shenzhen Branch, Inspection & Testing Services Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-5MHz-16QAM-38000-25RB#0-4.4885**



**Band38-5MHz-16QAM-38225-25RB#0-4.4918**



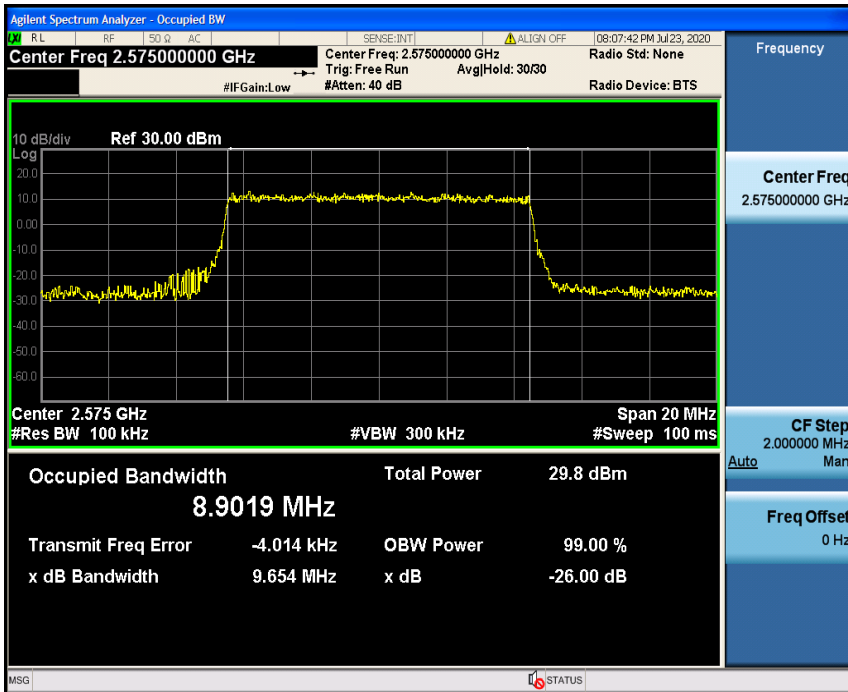
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

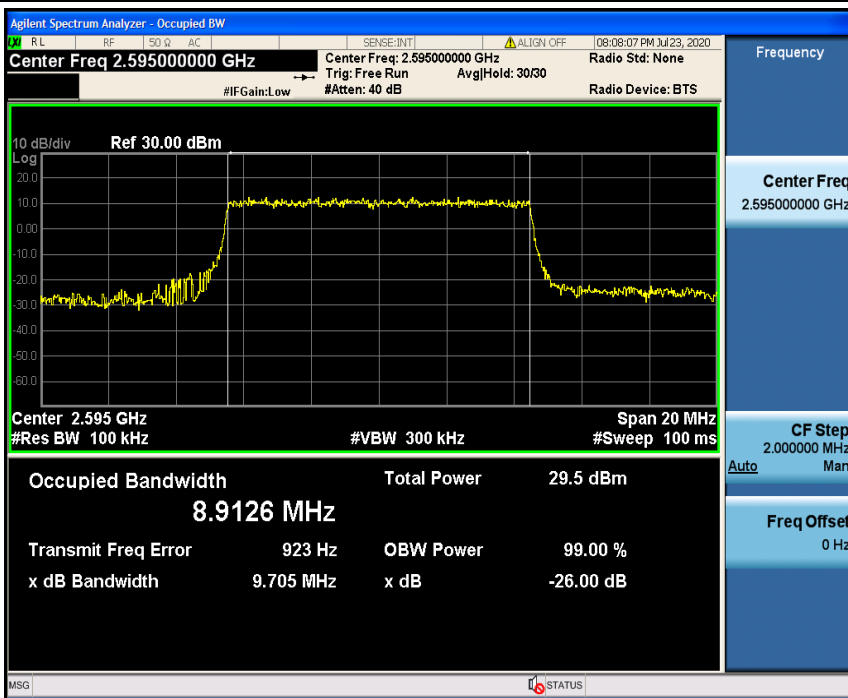
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-10MHz-QPSK-37800-50RB#0-8.9019**



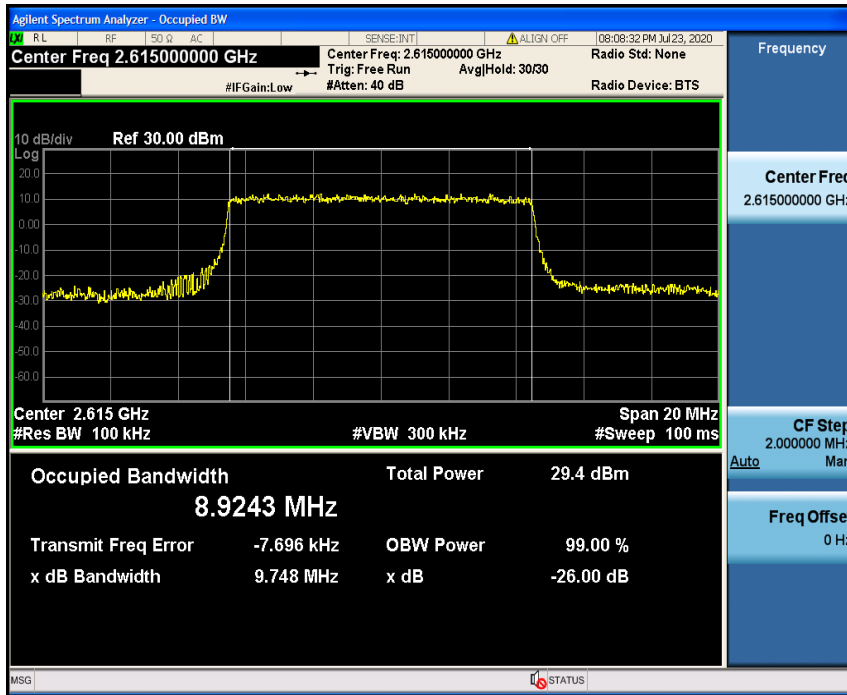
**Band38-10MHz-QPSK-38000-50RB#0-8.9126**



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.



**Band38-10MHz-QPSK-38200-50RB#0-8.9243**



**Band38-10MHz-64QAM-37800-50RB#0-8.9286**



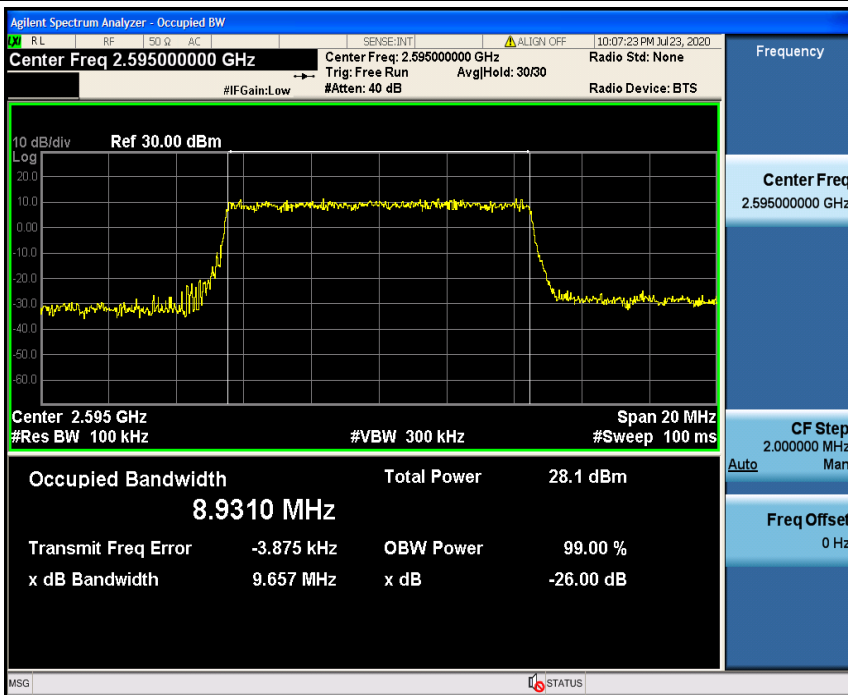
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

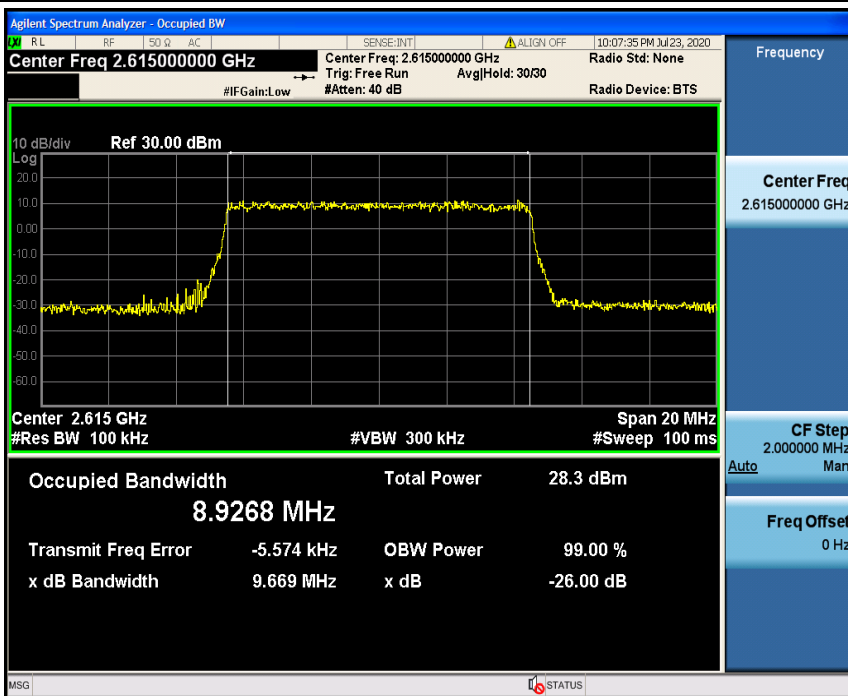
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



**Band38-10MHz-64QAM-38000-50RB#0-8.9310**



**Band38-10MHz-64QAM-38200-50RB#0-8.9268**



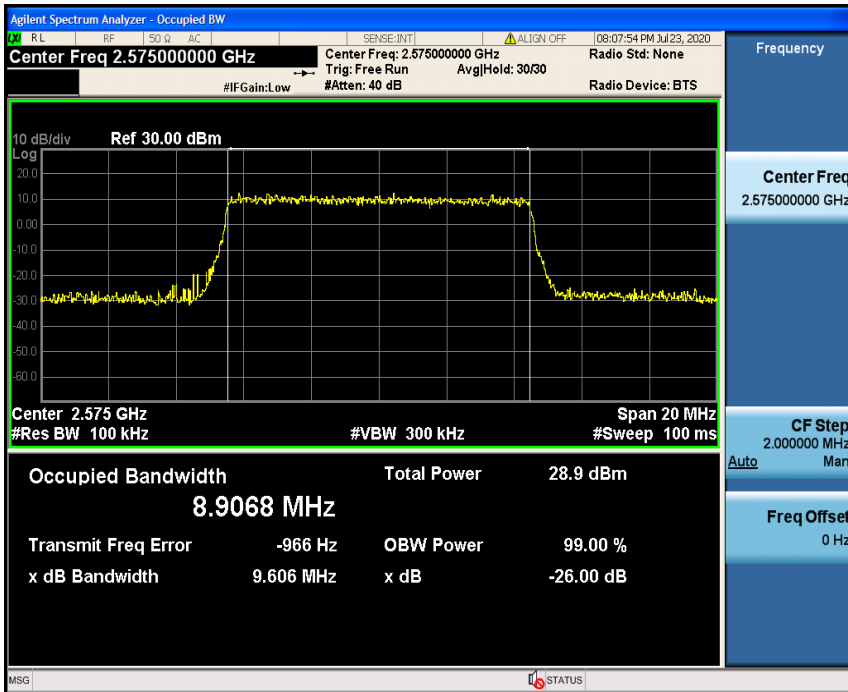
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

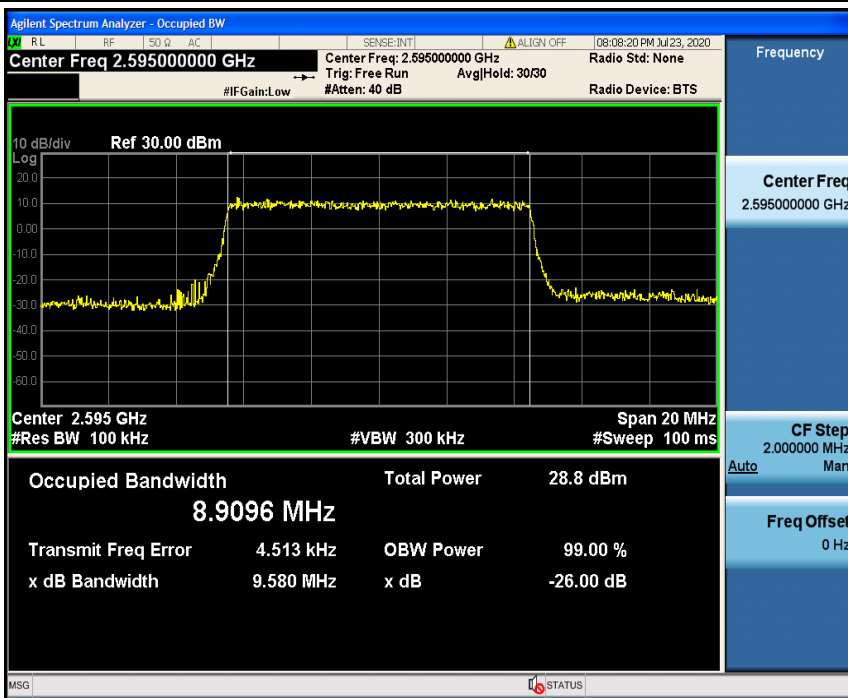
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
Shenzhen Branch, Inspection & Testing Services Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



Band38-10MHz-16QAM-37800-50RB#0-8.9068



Band38-10MHz-16QAM-38000-50RB#0-8.9096



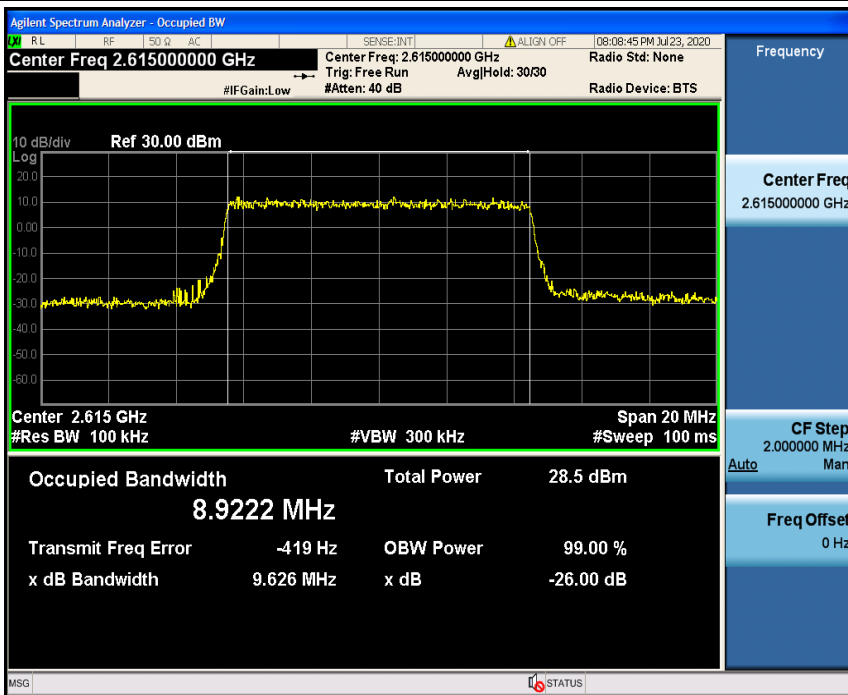
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

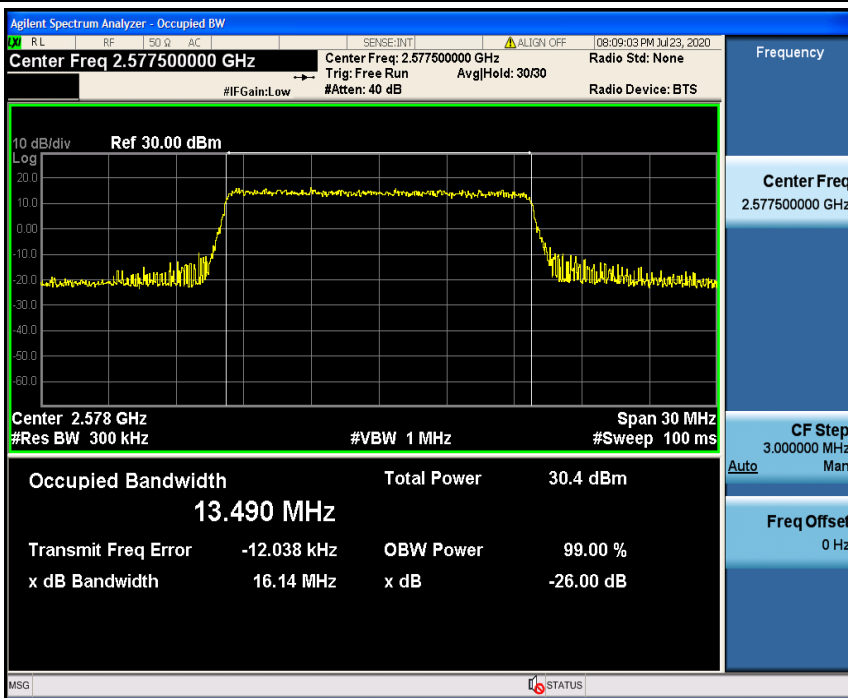
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



**Band38-10MHz-16QAM-38200-50RB#0-8.9222**



**Band38-15MHz-QPSK-37825-75RB#0-13.490**



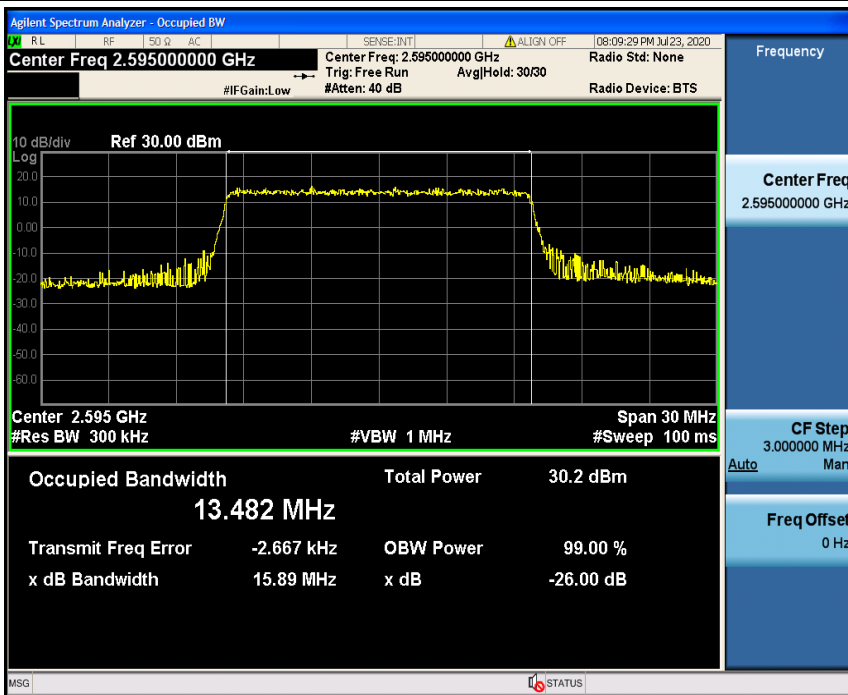
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

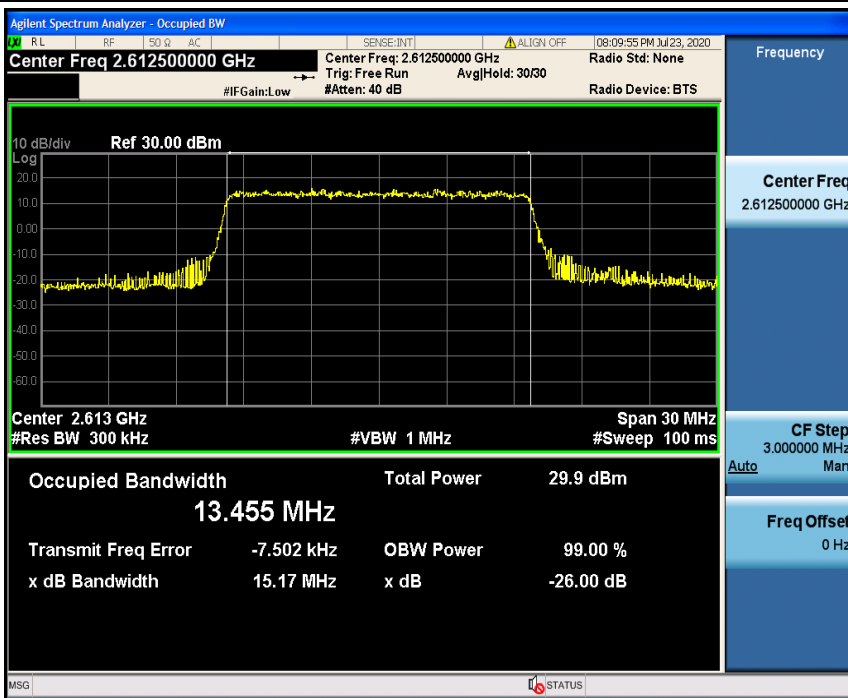
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-15MHz-QPSK-38000-75RB#0-13.482**



**Band38-15MHz-QPSK-38175-75RB#0-13.455**



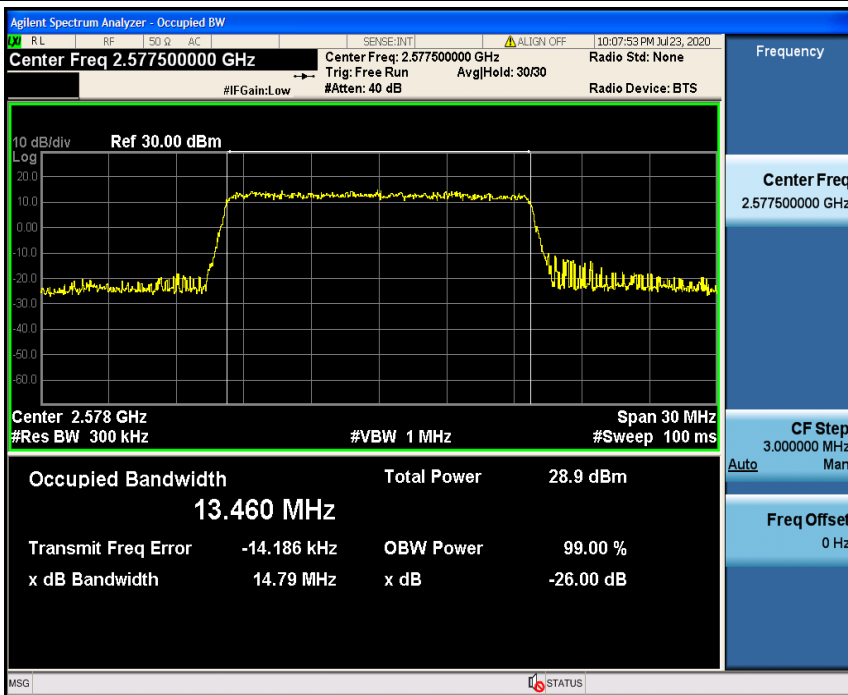
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

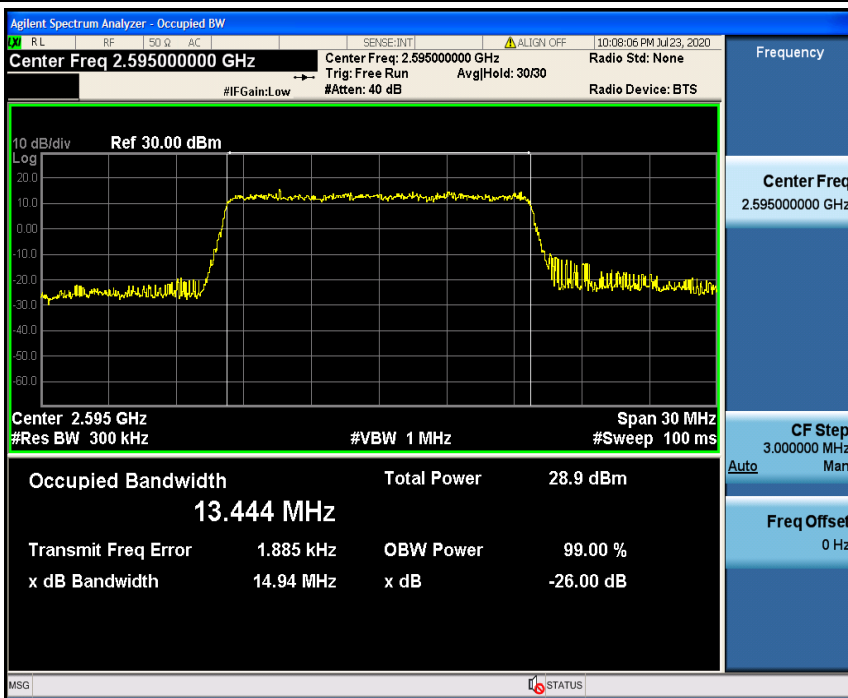
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
Shenzhen Branch, Inspection & Testing Services Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



Band38-15MHz-64QAM-37825-75RB#0-13.460



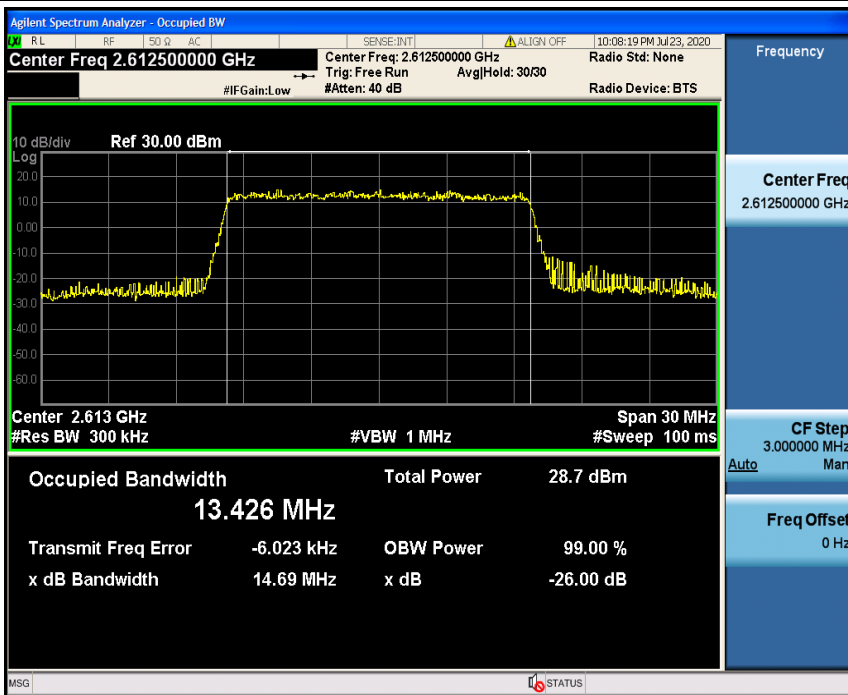
Band38-15MHz-64QAM-38000-75RB#0-13.444



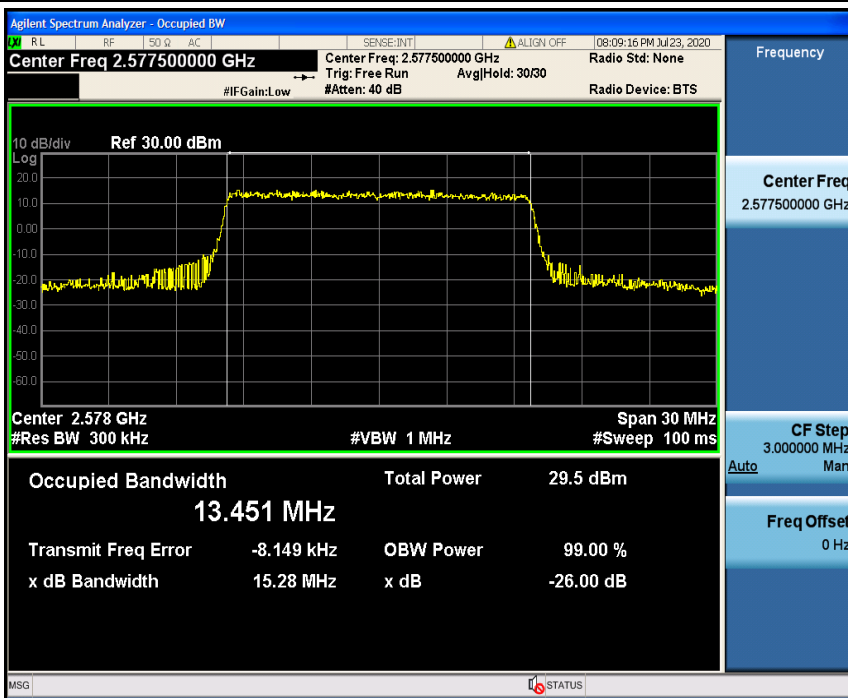
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



**Band38-15MHz-64QAM-38175-75RB#0-13.426**



**Band38-15MHz-16QAM-37825-75RB#0-13.451**



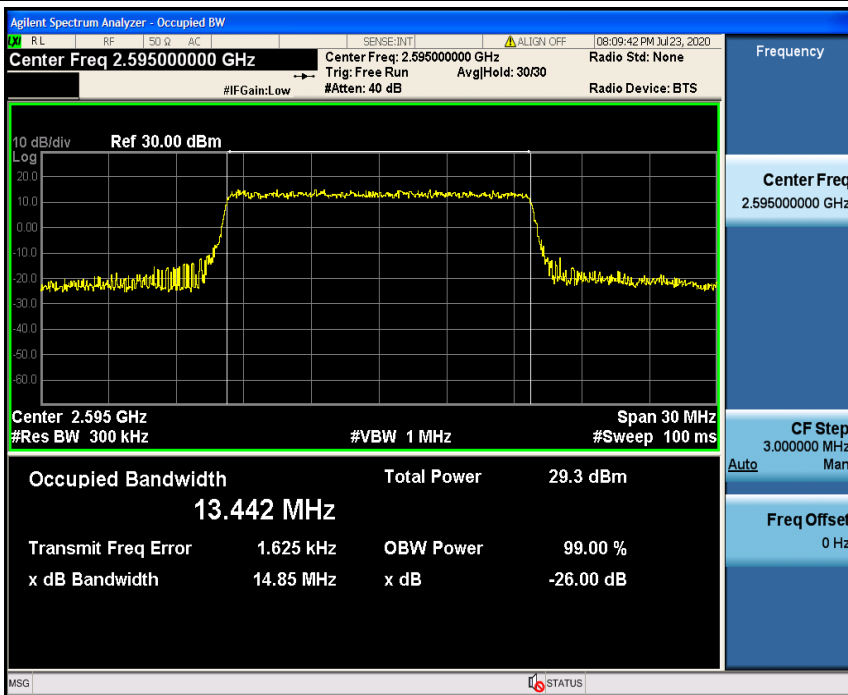
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

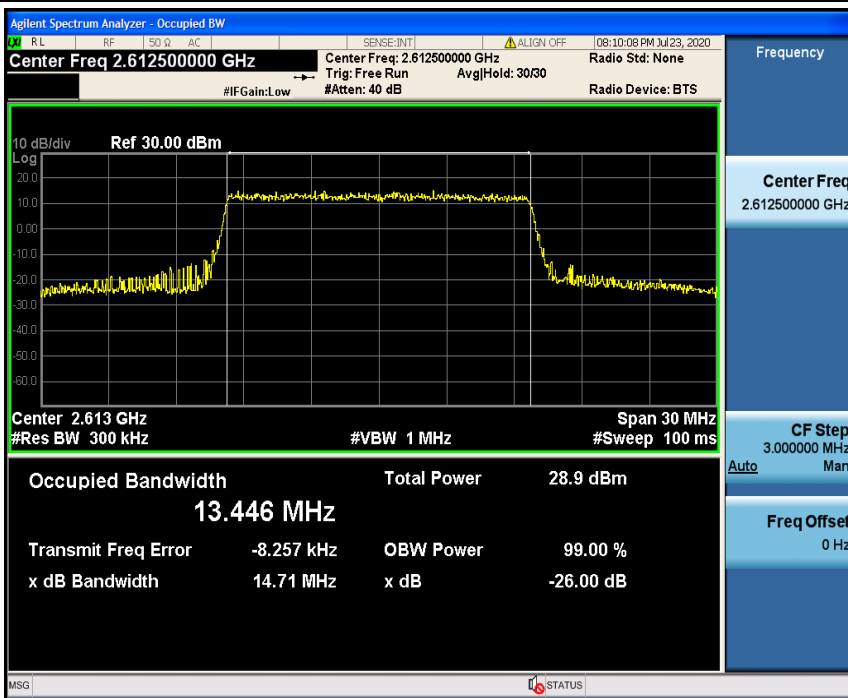
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
Shenzhen Branch, 1000000000 Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



**Band38-15MHz-16QAM-38000-75RB#0-13.442**

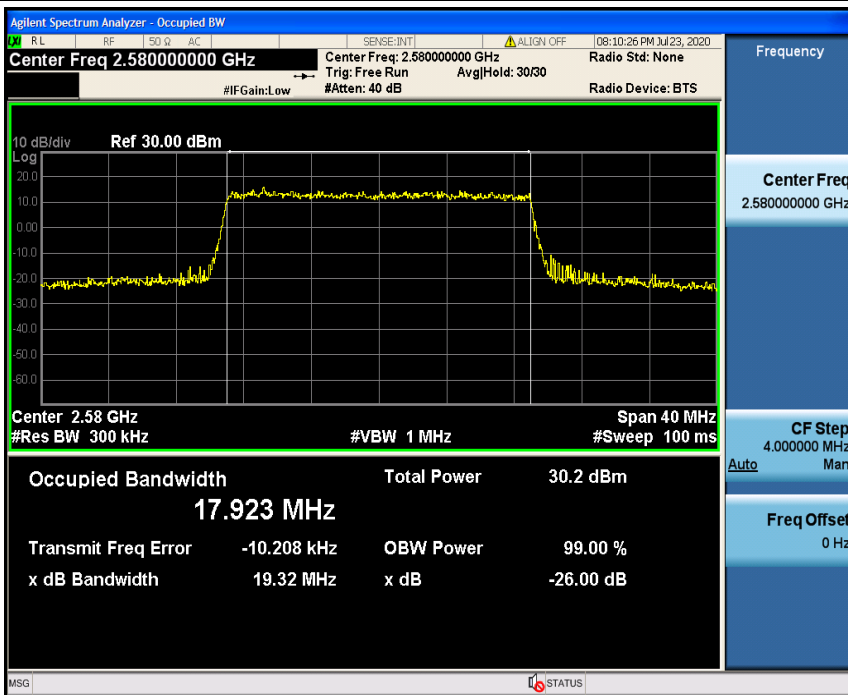


**Band38-15MHz-16QAM-38175-75RB#0-13.446**

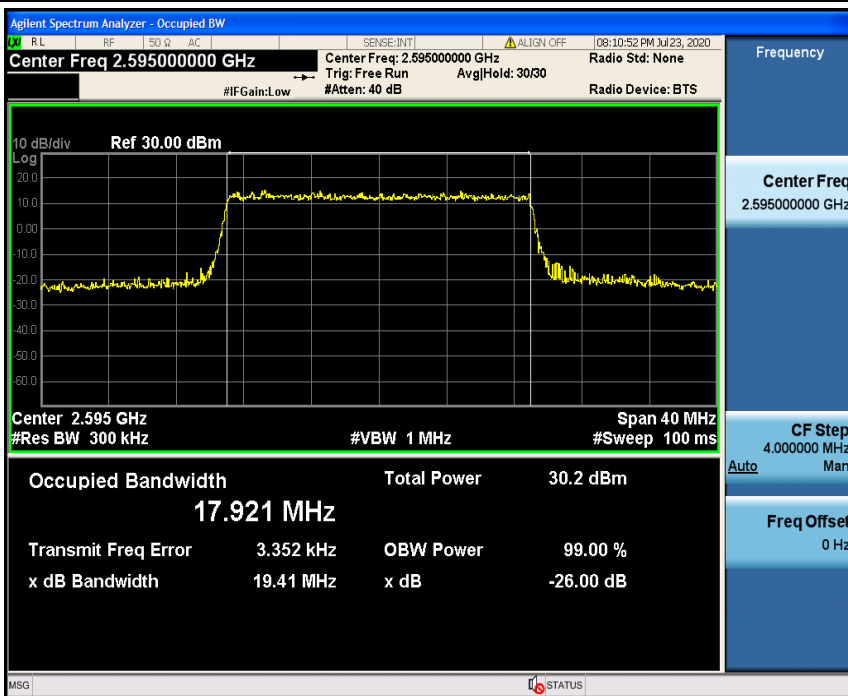




Band38-20MHz-QPSK-37850-100RB#0-17.923



Band38-20MHz-QPSK-38000-100RB#0-17.921



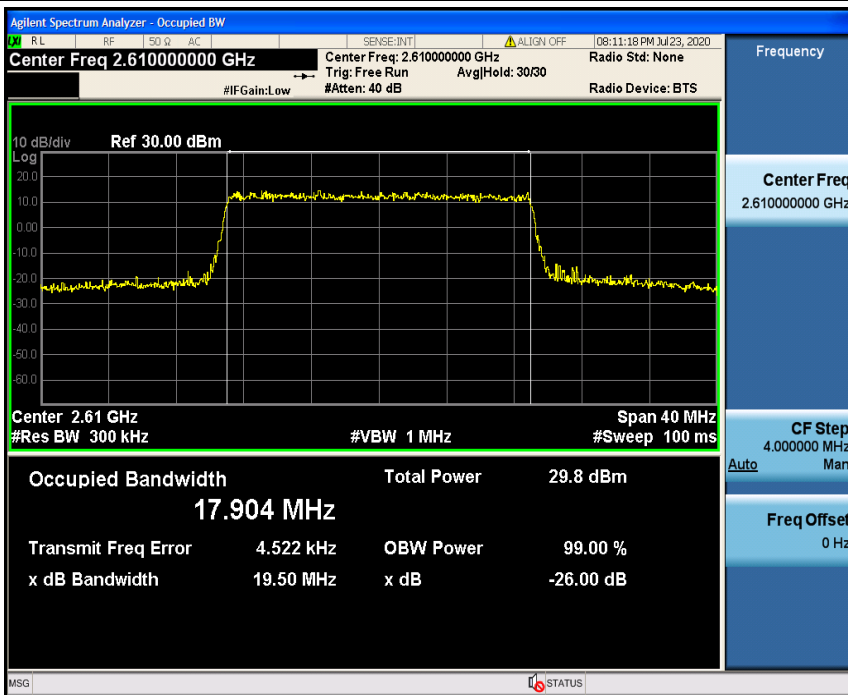
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

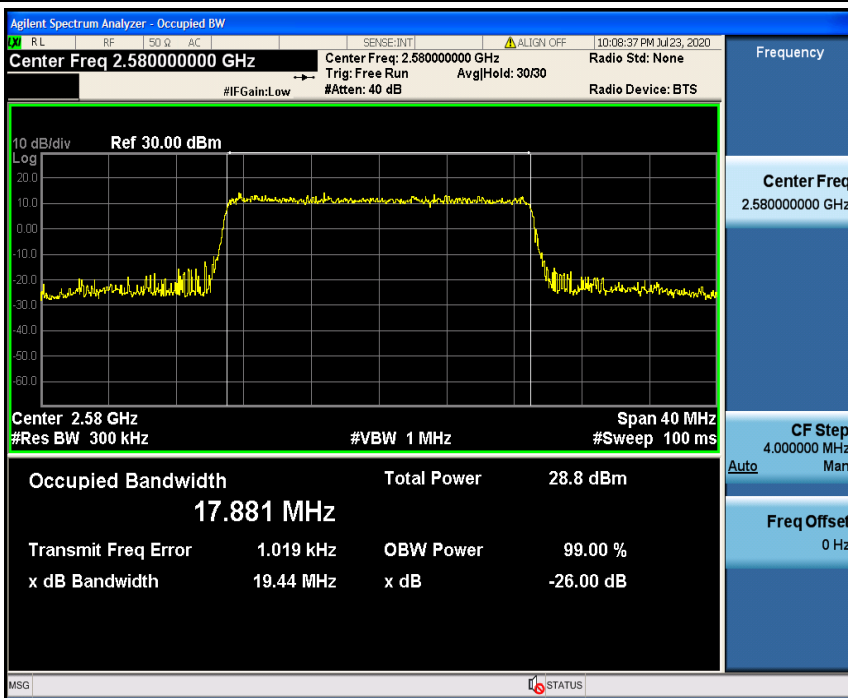
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-20MHz-QPSK-38150-100RB#0-17.904**



**Band38-20MHz-64QAM-37850-100RB#0-17.881**



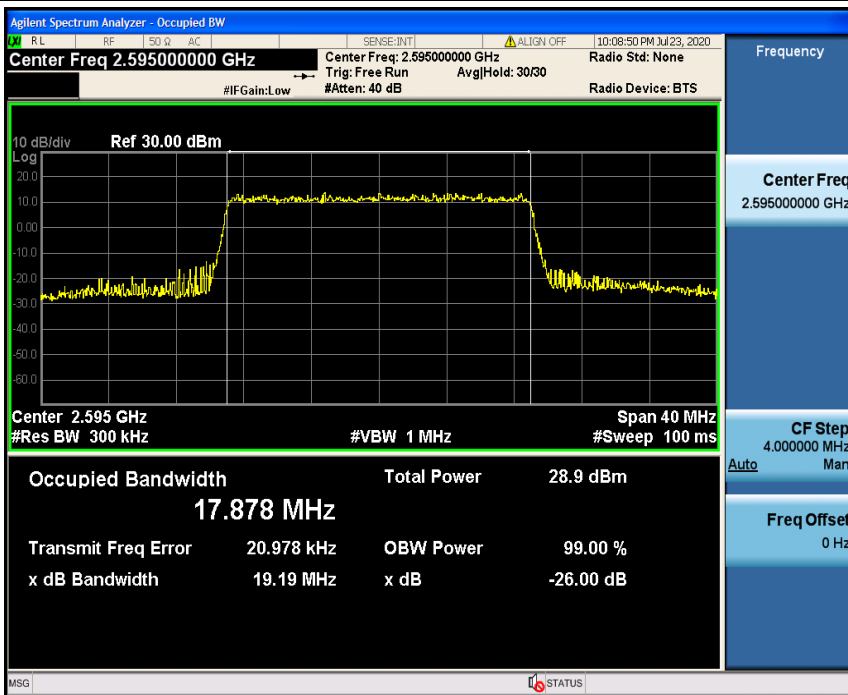
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

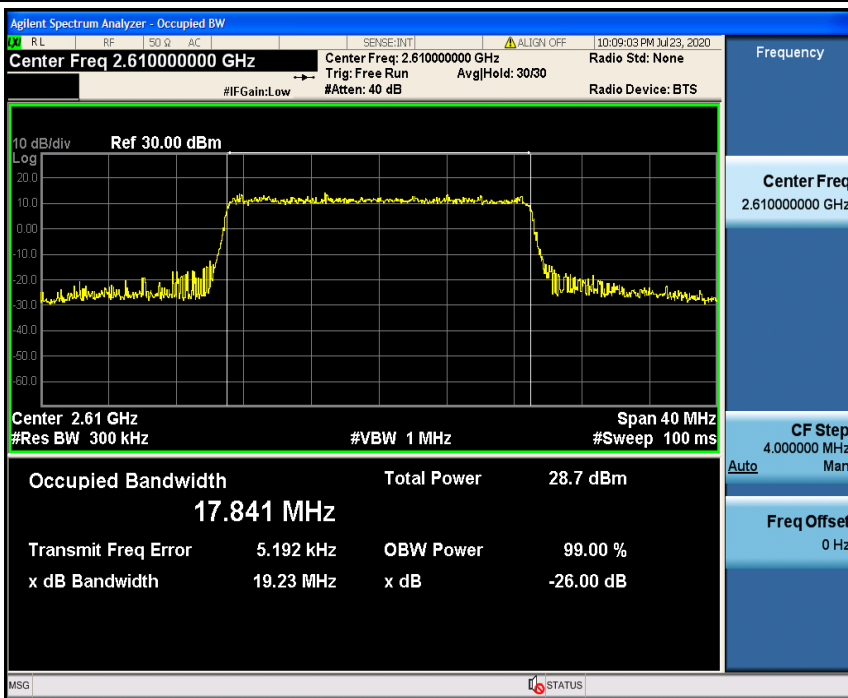
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



**Band38-20MHz-64QAM-38000-100RB#0-17.878**



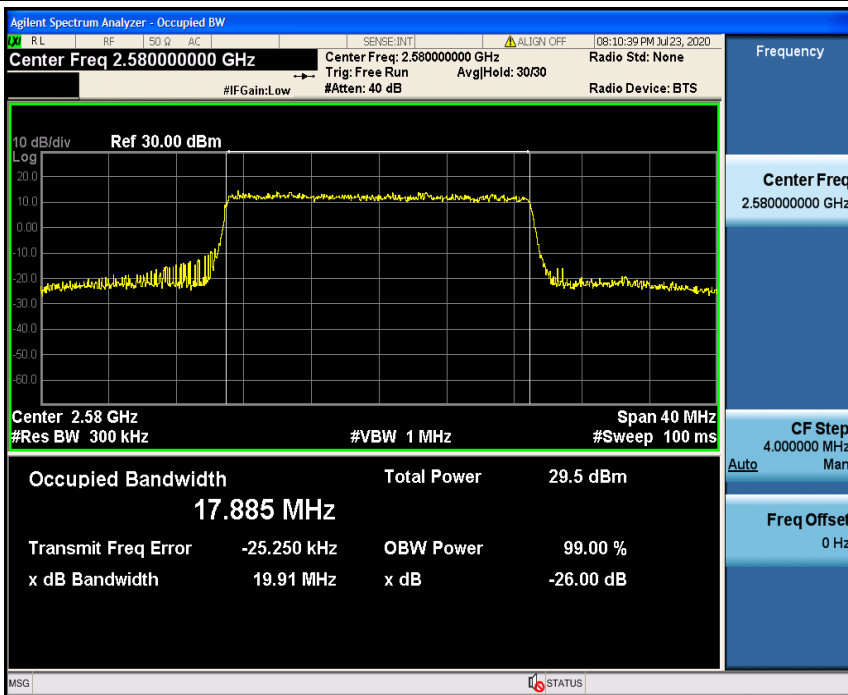
**Band38-20MHz-64QAM-38150-100RB#0-17.841**



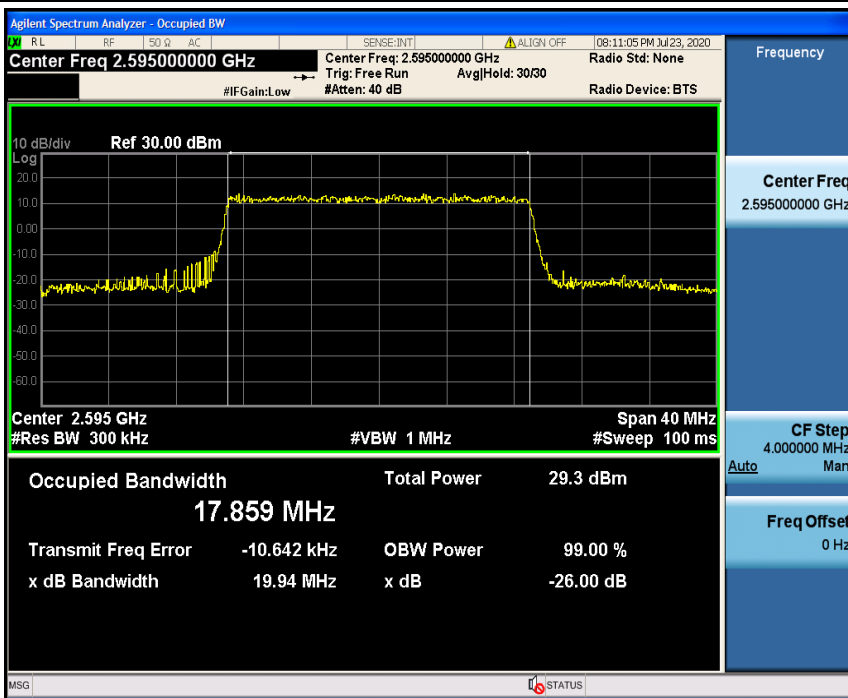
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-16QAM-37850-100RB#0-17.885



Band38-20MHz-16QAM-38000-100RB#0-17.859



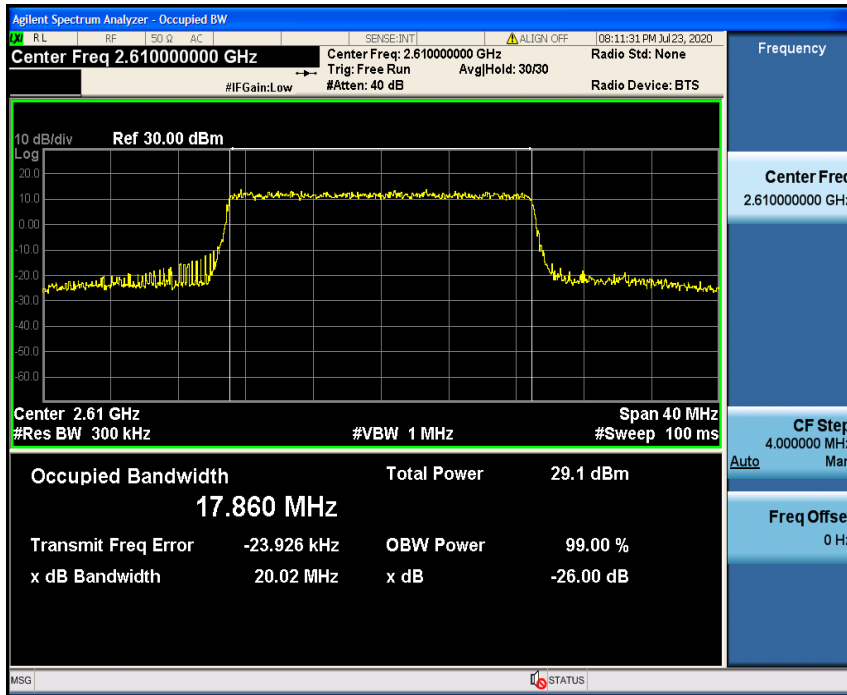
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



**Band38-20MHz-16QAM-38150-100RB#0-17.860**



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.



## 5. Band Edge Compliance

### 5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-44.01,-48.44,-14.97	PASS
Band38	5MHz	QPSK	37775	25RB#0	-44.92,-45.85,-25.88	PASS
Band38	5MHz	QPSK	38225	1RB#24	-45.66,-50.49,-18.11	PASS
Band38	5MHz	QPSK	38225	25RB#0	-46.40,-46.51,-26.11	PASS
Band38	5MHz	64QAM	37775	1RB#0	-52.36,-52.13,-17.50	PASS
Band38	5MHz	64QAM	37775	25RB#0	-47.87,-46.68,-28.70	PASS
Band38	5MHz	64QAM	38225	1RB#24	-52.25,-51.91,-18.62	PASS
Band38	5MHz	64QAM	38225	25RB#0	-48.04,-46.77,-27.58	PASS
Band38	5MHz	16QAM	37775	1RB#0	-44.82,-49.49,-16.44	PASS
Band38	5MHz	16QAM	37775	25RB#0	-46.36,-45.05,-24.85	PASS
Band38	5MHz	16QAM	38225	1RB#24	-46.84,-50.82,-17.47	PASS
Band38	5MHz	16QAM	38225	25RB#0	-47.45,-46.13,-26.24	PASS
Band38	10MHz	QPSK	37800	1RB#0	-42.04,-44.02,-22.80	PASS
Band38	10MHz	QPSK	37800	50RB#0	-43.94,-32.49,-27.18	PASS
Band38	10MHz	QPSK	38200	1RB#49	-43.71,-41.25,-21.02	PASS
Band38	10MHz	QPSK	38200	50RB#0	-45.24,-31.67,-25.61	PASS
Band38	10MHz	64QAM	37800	1RB#0	-50.82,-48.18,-24.06	PASS
Band38	10MHz	64QAM	37800	50RB#0	-45.50,-36.50,-32.20	PASS
Band38	10MHz	64QAM	38200	1RB#49	-50.14,-44.08,-24.06	PASS
Band38	10MHz	64QAM	38200	50RB#0	-46.44,-36.96,-31.12	PASS
Band38	10MHz	16QAM	37800	1RB#0	-42.60,-45.02,-20.53	PASS
Band38	10MHz	16QAM	37800	50RB#0	-44.54,-34.36,-28.77	PASS
Band38	10MHz	16QAM	38200	1RB#49	-44.56,-41.82,-23.14	PASS
Band38	10MHz	16QAM	38200	50RB#0	-46.02,-34.03,-28.59	PASS
Band38	15MHz	QPSK	37825	1RB#0	-47.95,-38.42,-21.75	PASS
Band38	15MHz	QPSK	37825	75RB#0	-44.35,-29.35,-27.89	PASS
Band38	15MHz	QPSK	38175	1RB#74	-48.10,-40.51,-22.49	PASS
Band38	15MHz	QPSK	38175	75RB#0	-45.89,-29.53,-26.62	PASS
Band38	15MHz	64QAM	37825	1RB#0	-48.40,-40.03,-22.80	PASS
Band38	15MHz	64QAM	37825	75RB#0	-45.25,-33.15,-32.15	PASS
Band38	15MHz	64QAM	38175	1RB#74	-48.20,-41.82,-23.81	PASS
Band38	15MHz	64QAM	38175	75RB#0	-45.83,-33.71,-31.05	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.

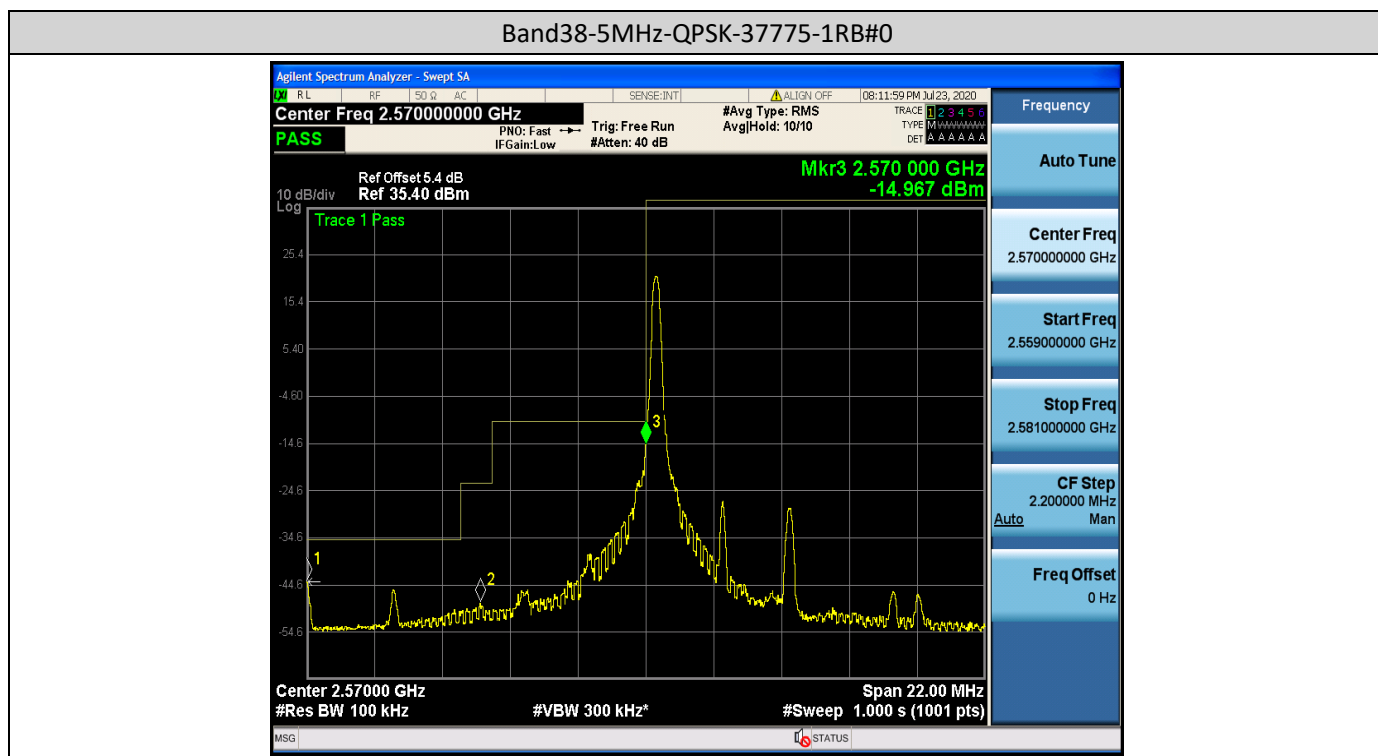
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch 检验检测专用章  
Inspection & Testing Services

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



Band38	15MHz	16QAM	37825	1RB#0	-47.61,-39.40,-23.80	PASS
Band38	15MHz	16QAM	37825	75RB#0	-44.57,-30.59,-29.37	PASS
Band38	15MHz	16QAM	38175	1RB#74	-47.99,-41.56,-23.36	PASS
Band38	15MHz	16QAM	38175	75RB#0	-46.02,-31.54,-28.15	PASS
Band38	20MHz	QPSK	37850	1RB#0	-46.86,-40.82,-21.58	PASS
Band38	20MHz	QPSK	37850	100RB#0	-43.38,-27.69,-26.02	PASS
Band38	20MHz	QPSK	38150	1RB#99	-46.70,-39.92,-21.32	PASS
Band38	20MHz	QPSK	38150	100RB#0	-44.65,-27.56,-24.92	PASS
Band38	20MHz	64QAM	37850	1RB#0	-46.96,-40.44,-22.71	PASS
Band38	20MHz	64QAM	37850	100RB#0	-43.66,-30.33,-29.87	PASS
Band38	20MHz	64QAM	38150	1RB#99	-46.60,-42.19,-21.59	PASS
Band38	20MHz	64QAM	38150	100RB#0	-44.45,-32.10,-30.52	PASS
Band38	20MHz	16QAM	37850	1RB#0	-46.77,-40.58,-20.24	PASS
Band38	20MHz	16QAM	37850	100RB#0	-43.45,-29.46,-28.11	PASS
Band38	20MHz	16QAM	38150	1RB#99	-46.52,-40.67,-22.37	PASS
Band38	20MHz	16QAM	38150	100RB#0	-44.22,-29.07,-26.80	PASS

## 5.2. Test Plots



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

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

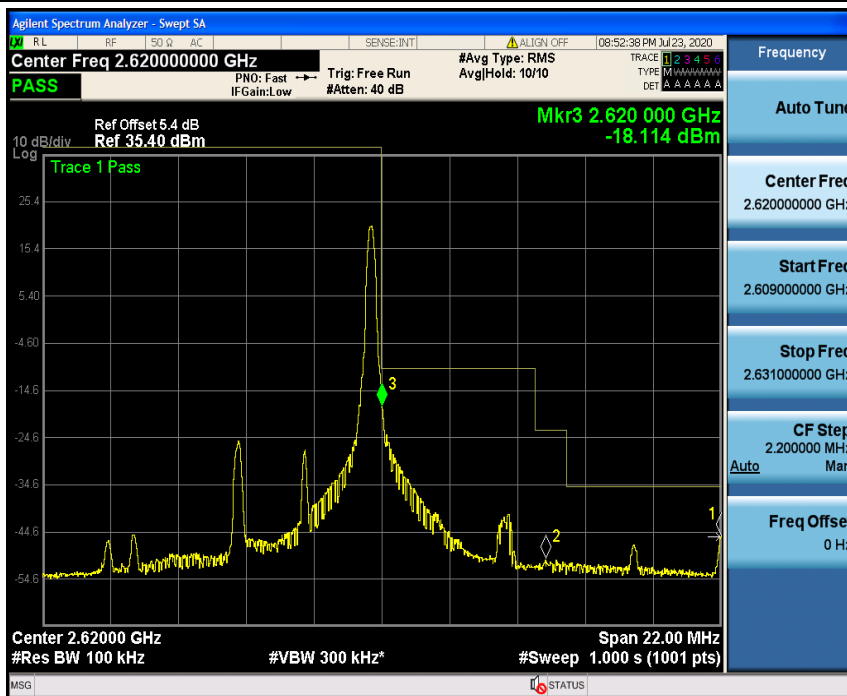
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-5MHz-QPSK-37775-25RB#0



Band38-5MHz-QPSK-38225-1RB#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](mailto:CN.Doccheck@sgs.com)

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

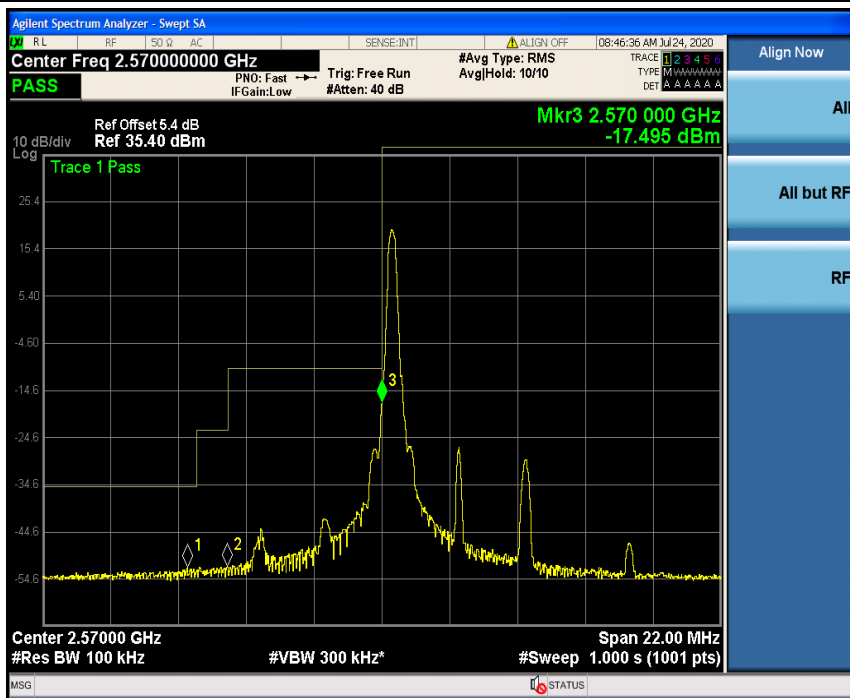
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-5MHz-QPSK-38225-25RB#0



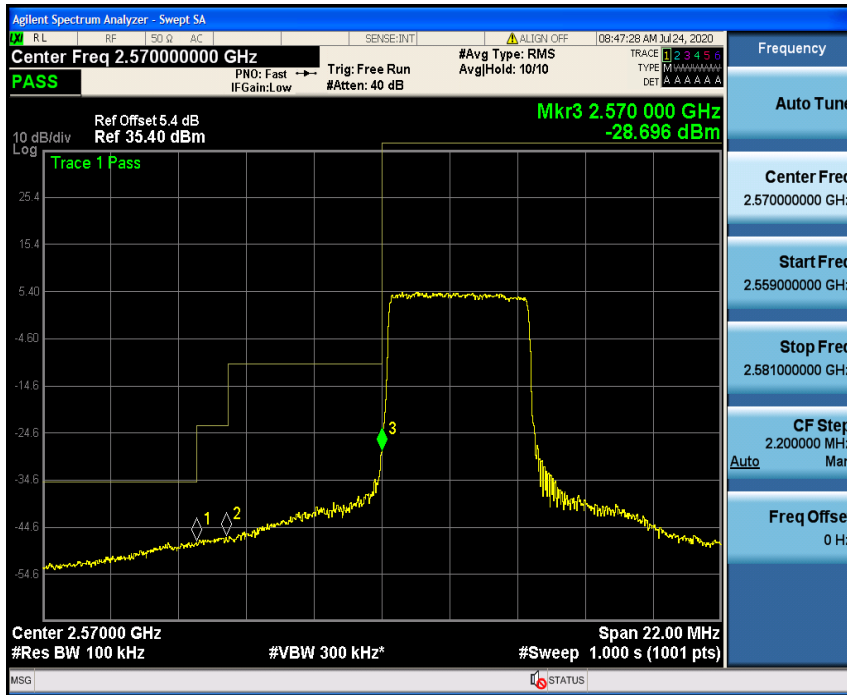
Band38-5MHz-64QAM-37775-1RB#0



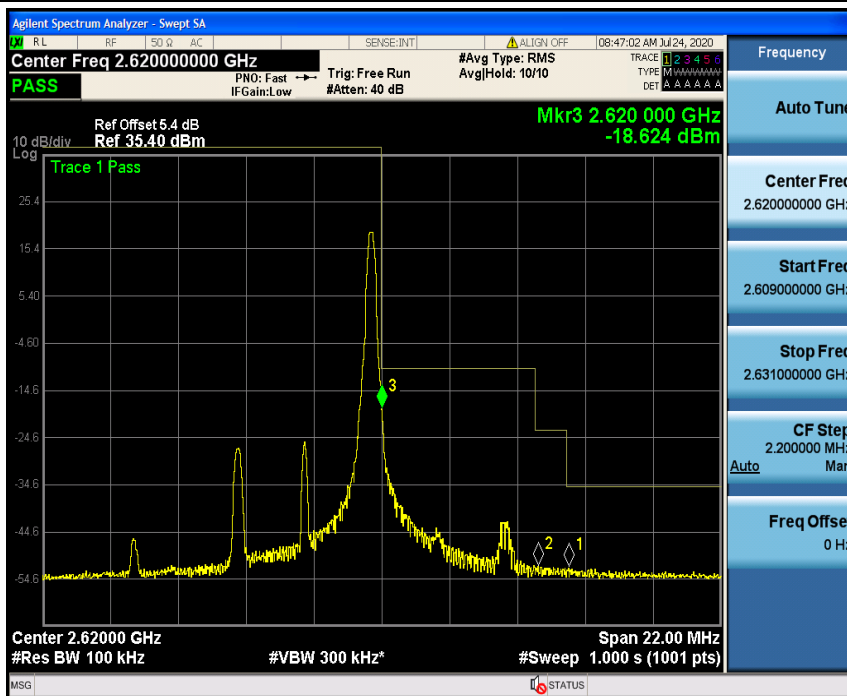
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-5MHz-64QAM-37775-25RB#0



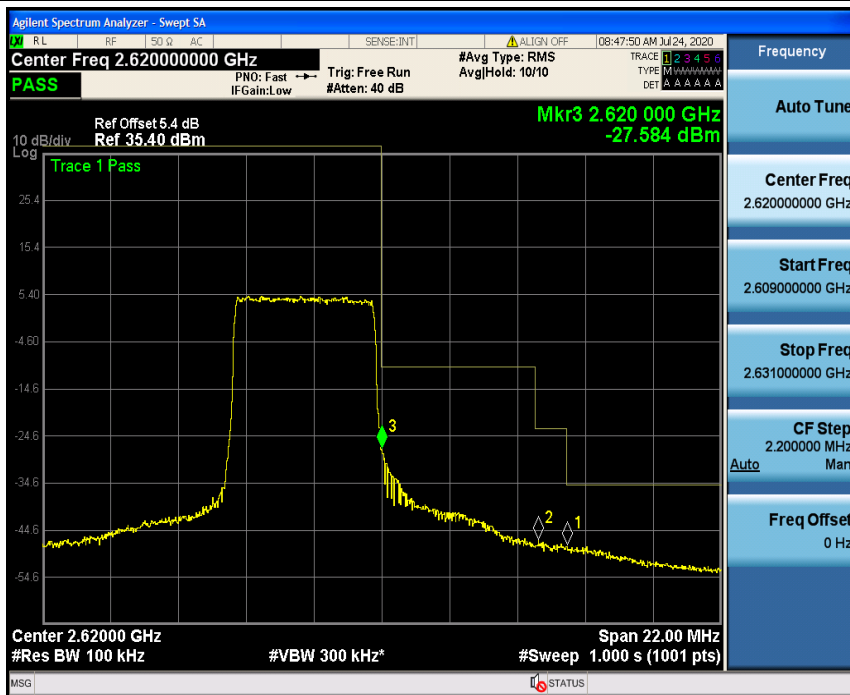
Band38-5MHz-64QAM-38225-1RB#24



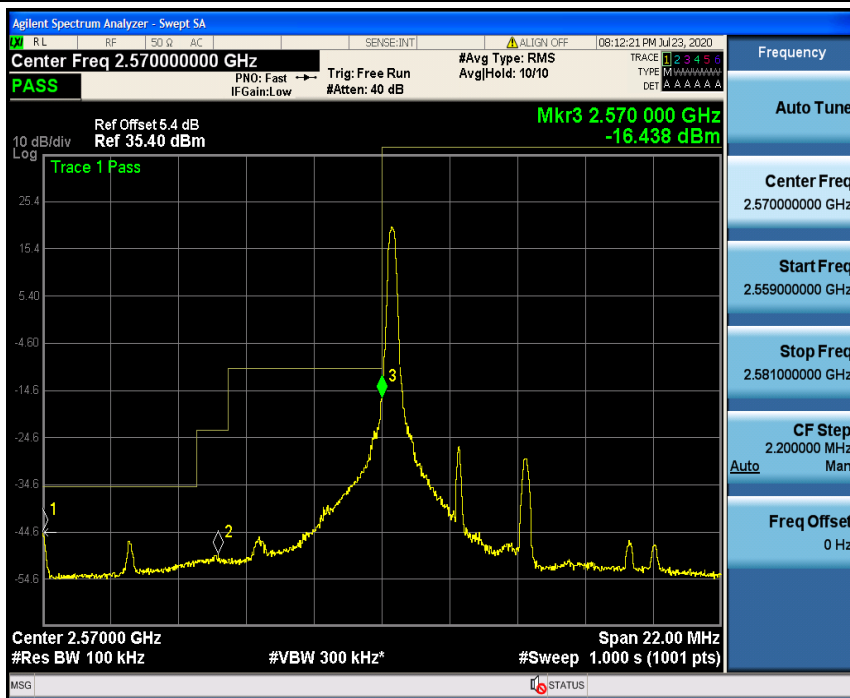
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-5MHz-64QAM-38225-25RB#0



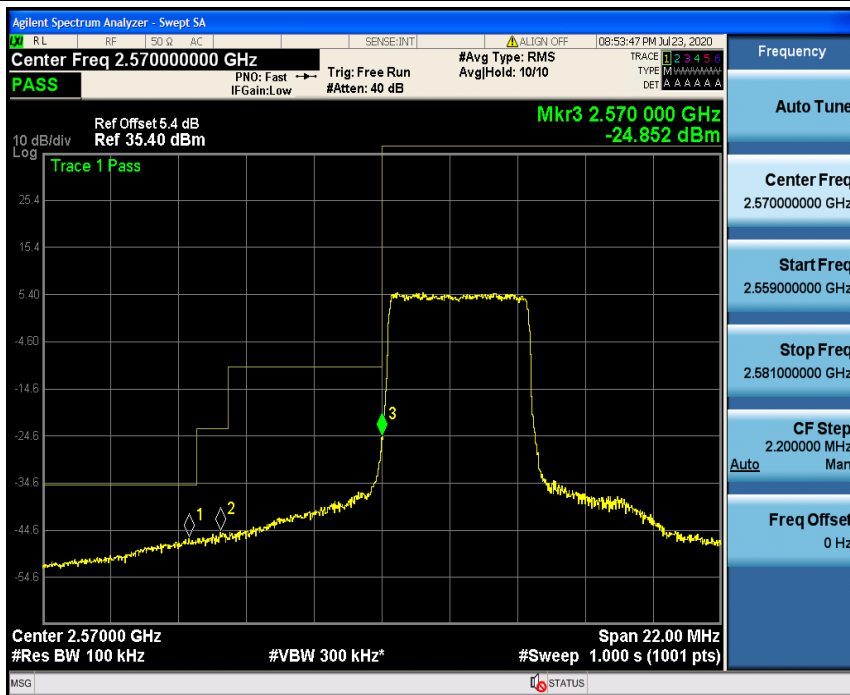
Band38-5MHz-16QAM-37775-1RB#0



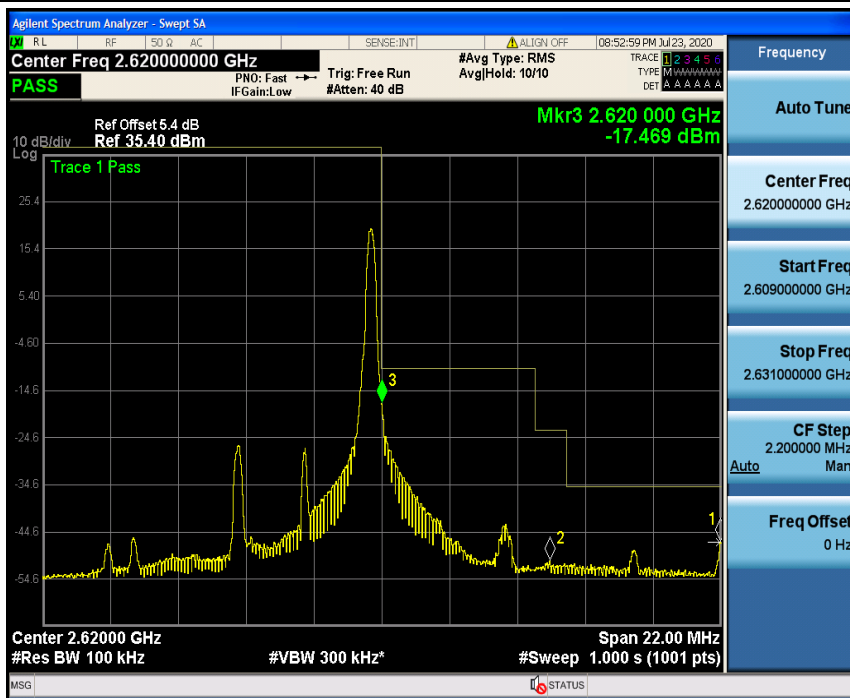
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-5MHz-16QAM-37775-25RB#0



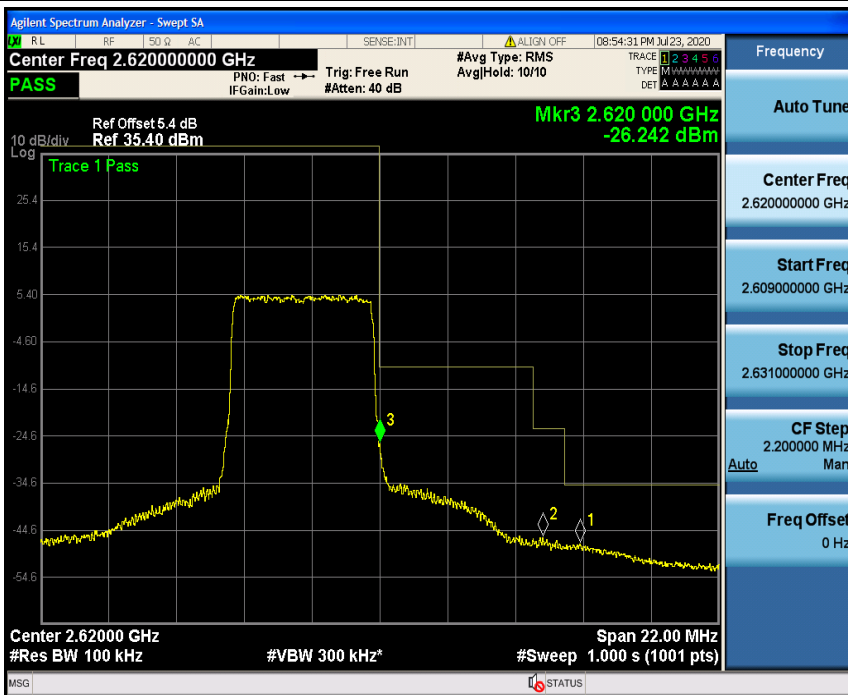
Band38-5MHz-16QAM-38225-1RB#24



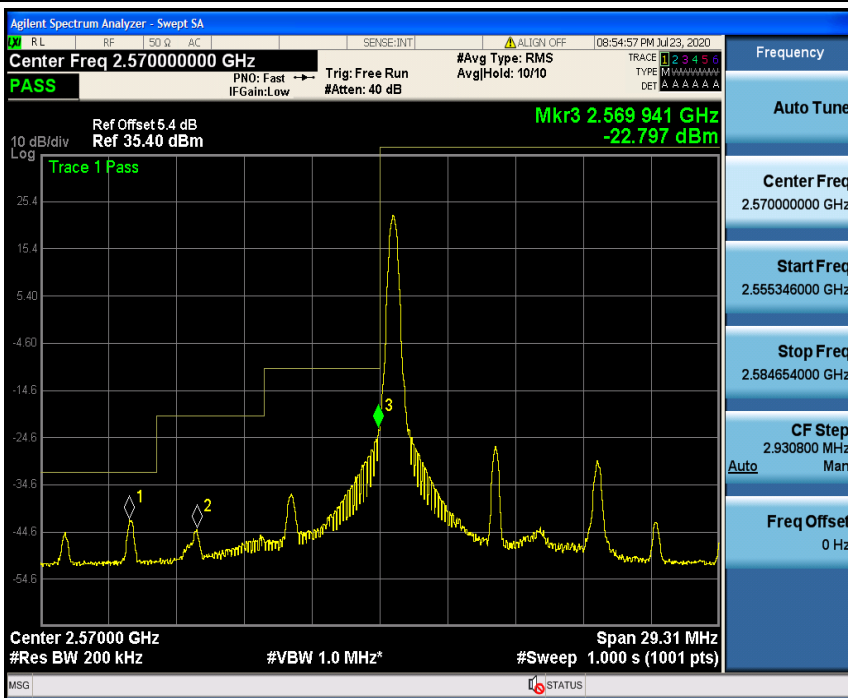
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-5MHz-16QAM-38225-25RB#0



Band38-10MHz-QPSK-37800-1RB#0



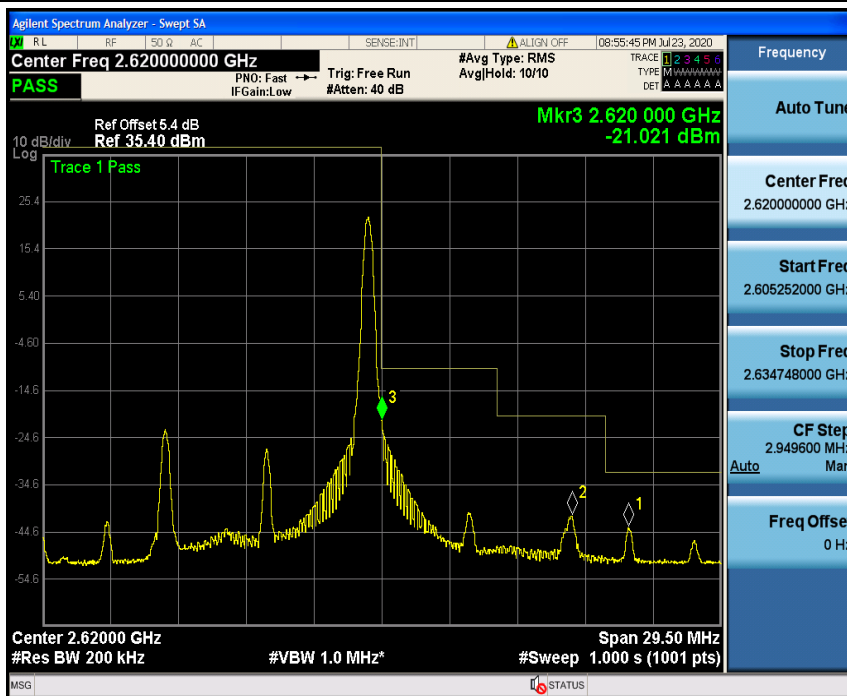
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-10MHz-QPSK-37800-50RB#0



Band38-10MHz-QPSK-38200-1RB#49



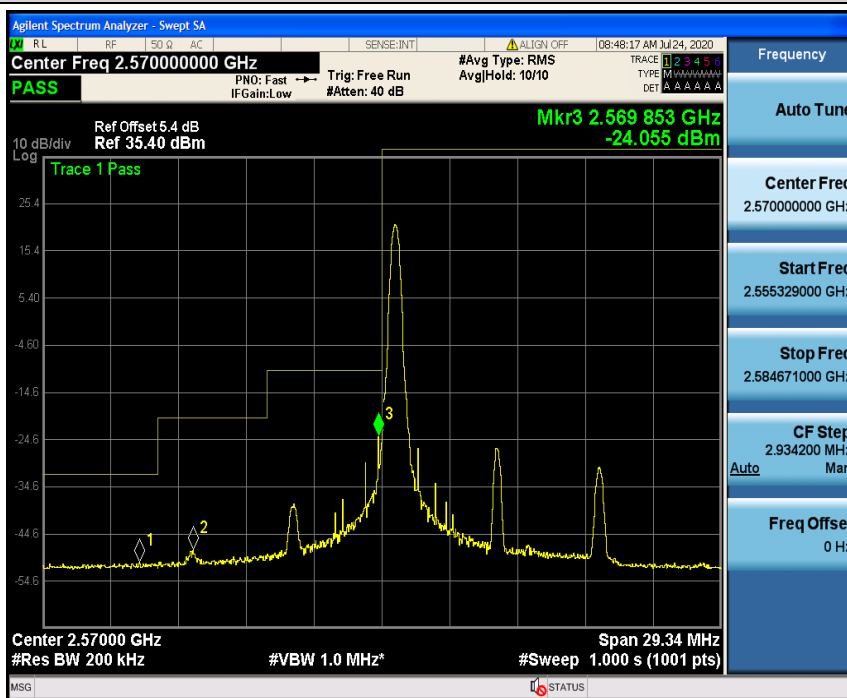
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-10MHz-QPSK-38200-50RB#0



Band38-10MHz-64QAM-37800-1RB#0



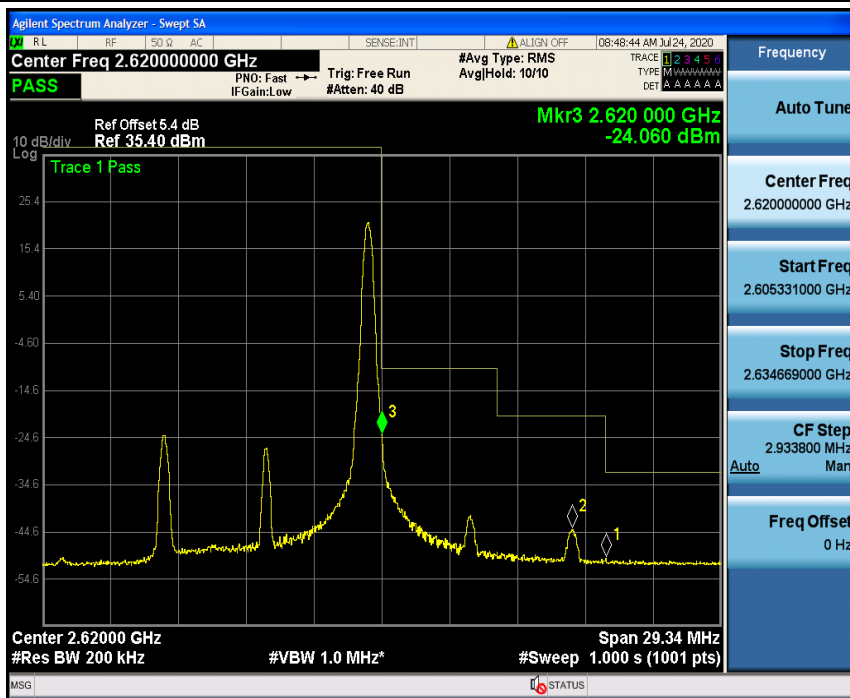
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-10MHz-64QAM-37800-50RB#0



Band38-10MHz-64QAM-38200-1RB#49



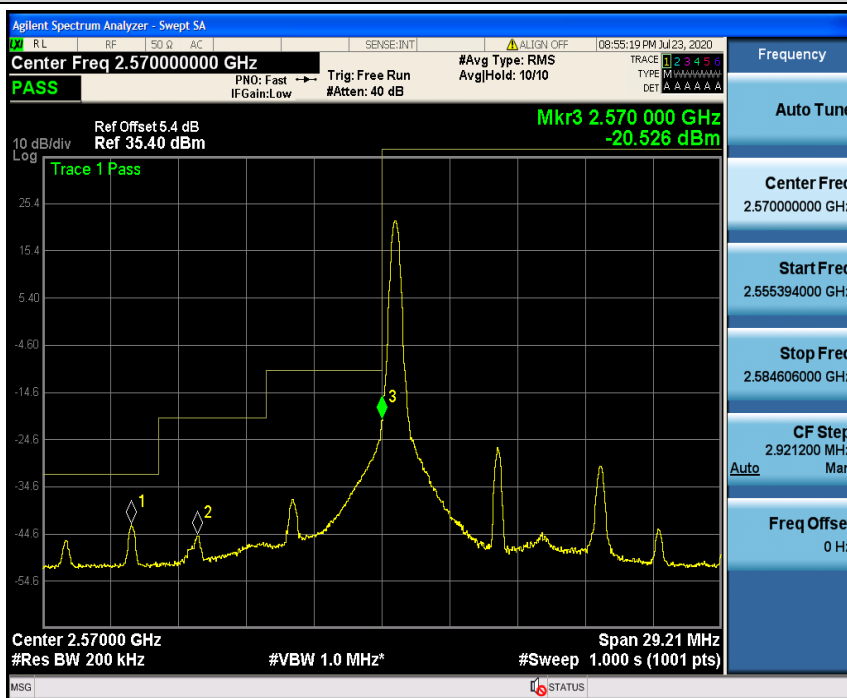
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-10MHz-64QAM-38200-50RB#0

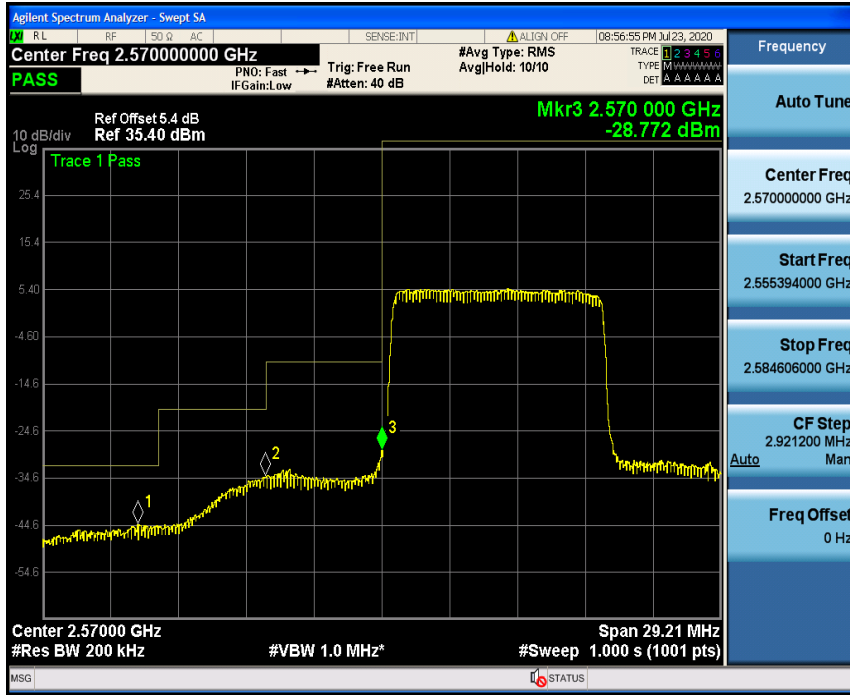


Band38-10MHz-16QAM-37800-1RB#0

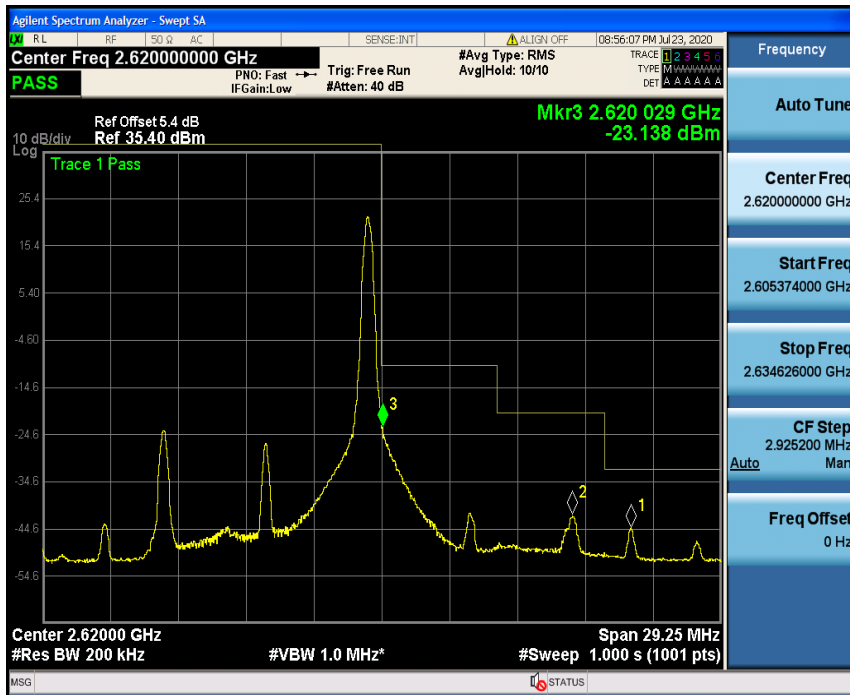


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**Band38-10MHz-16QAM-37800-50RB#0**



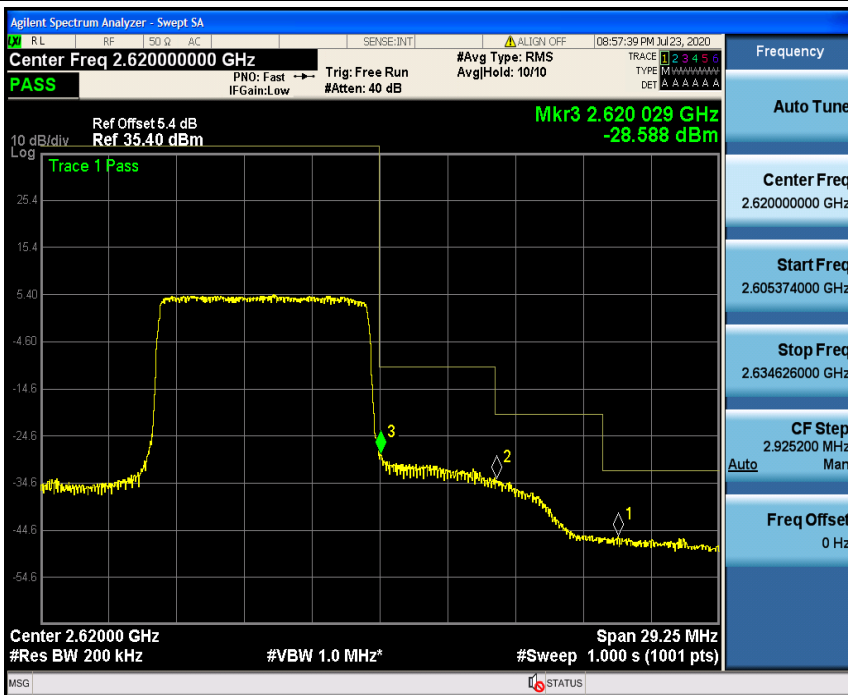
**Band38-10MHz-16QAM-38200-1RB#49**



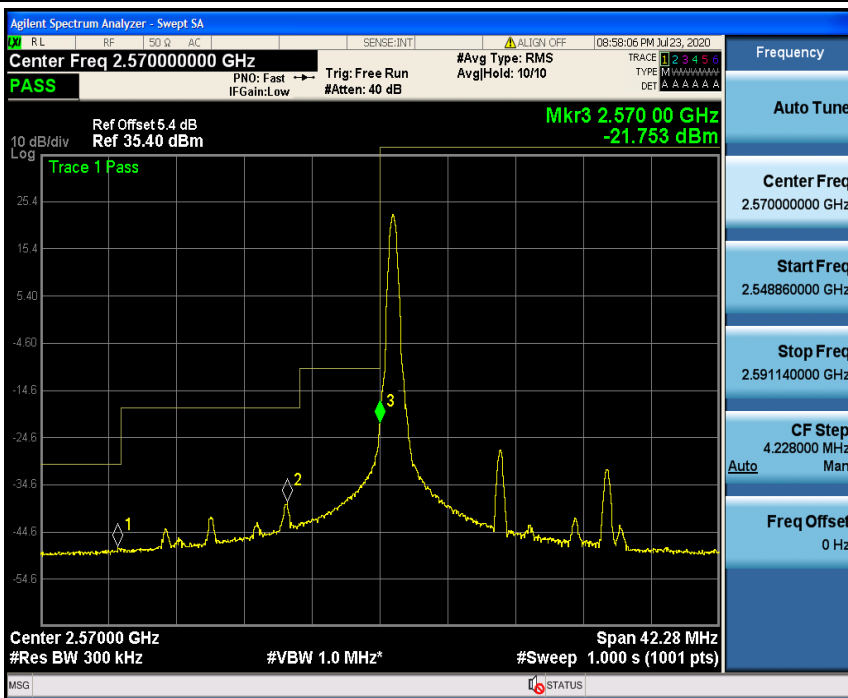
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-10MHz-16QAM-38200-50RB#0



Band38-15MHz-QPSK-37825-1RB#0



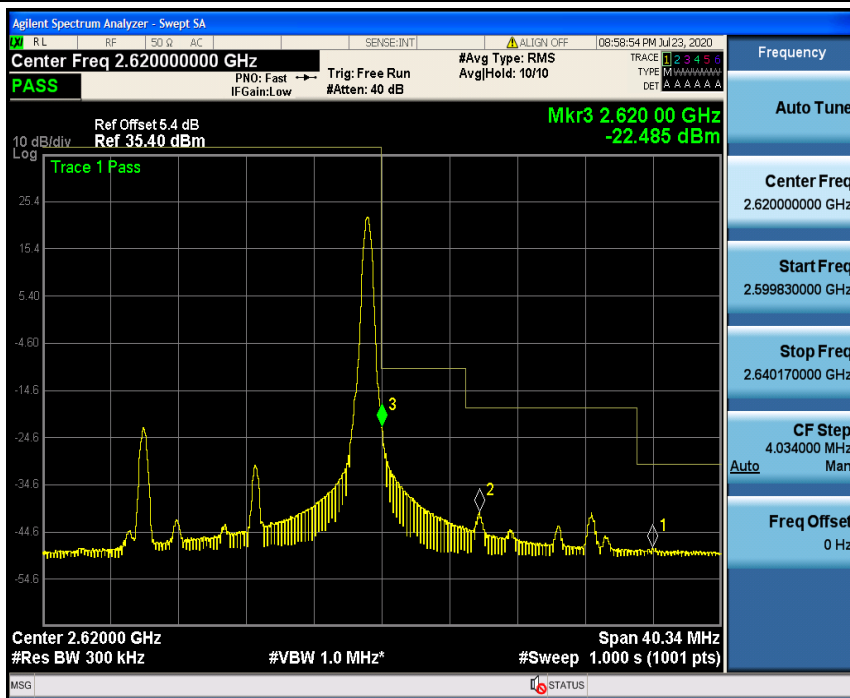
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-15MHz-QPSK-37825-75RB#0



Band38-15MHz-QPSK-38175-1RB#74



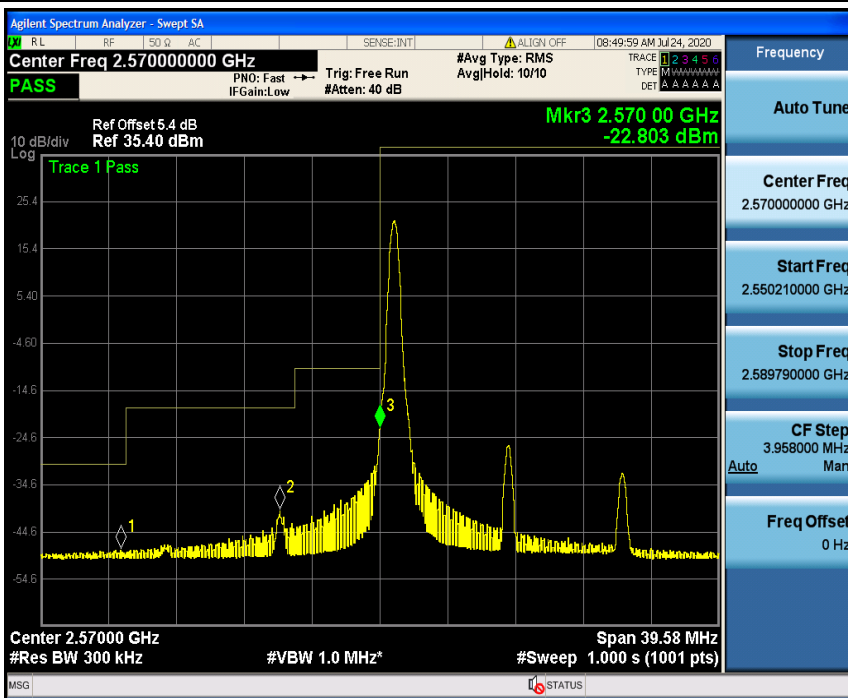
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-15MHz-QPSK-38175-75RB#0



Band38-15MHz-64QAM-37825-1RB#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](mailto:CN.Doccheck@sgs.com)

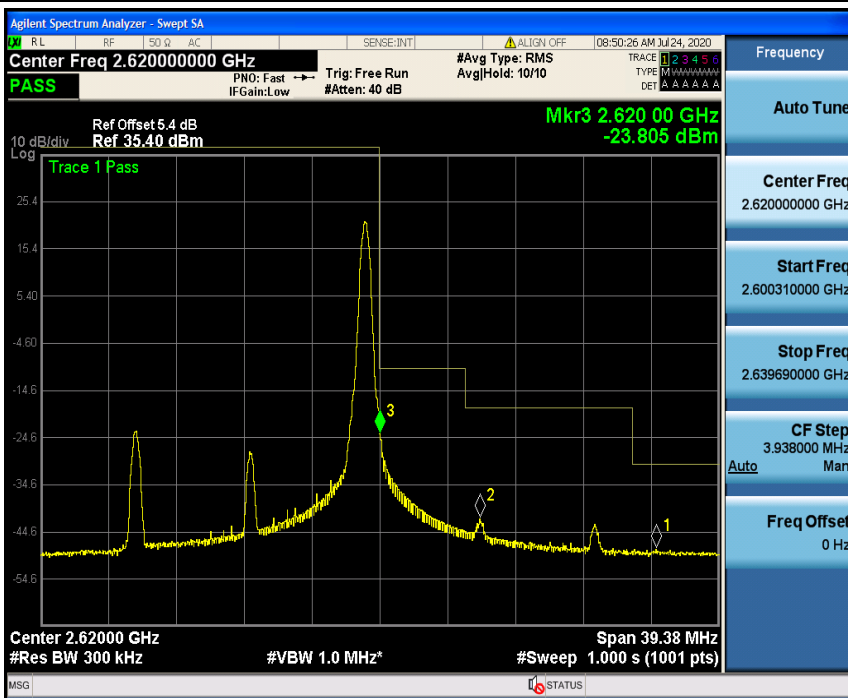
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, Inspection & Testing Services Laboratory  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053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



Band38-15MHz-64QAM-37825-75RB#0

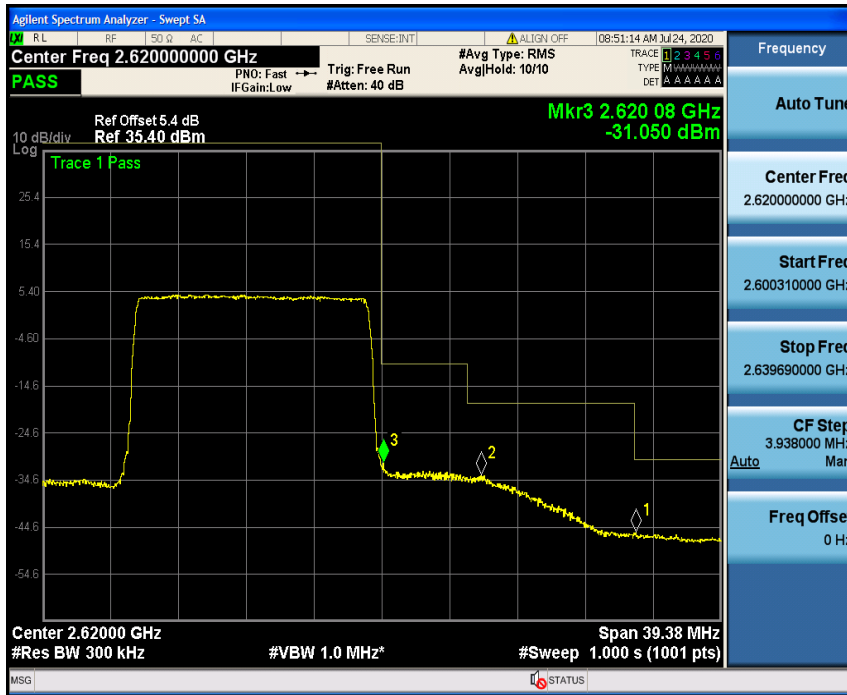


Band38-15MHz-64QAM-38175-1RB#74

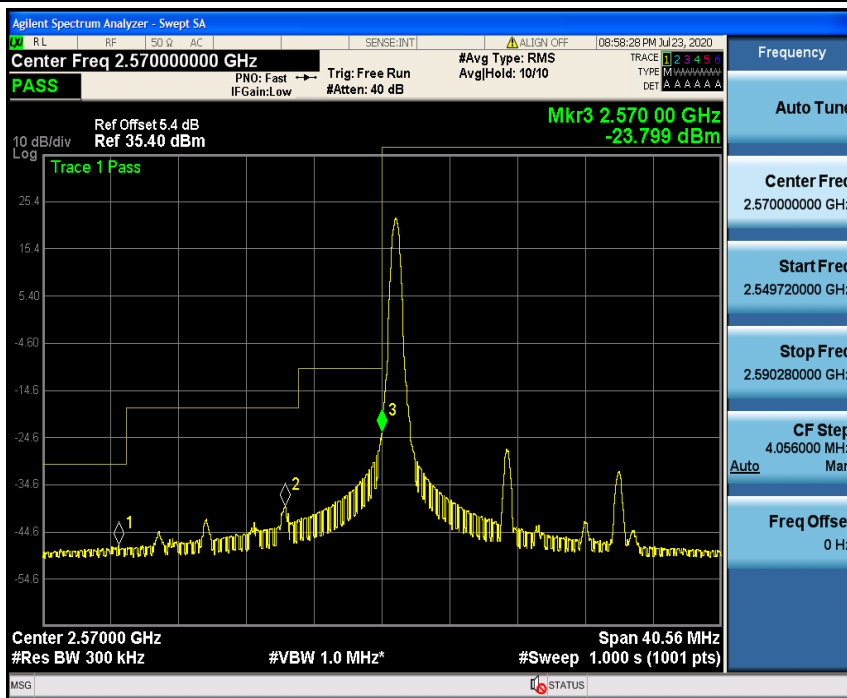


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**Band38-15MHz-64QAM-38175-75RB#0**



**Band38-15MHz-16QAM-37825-1RB#0**



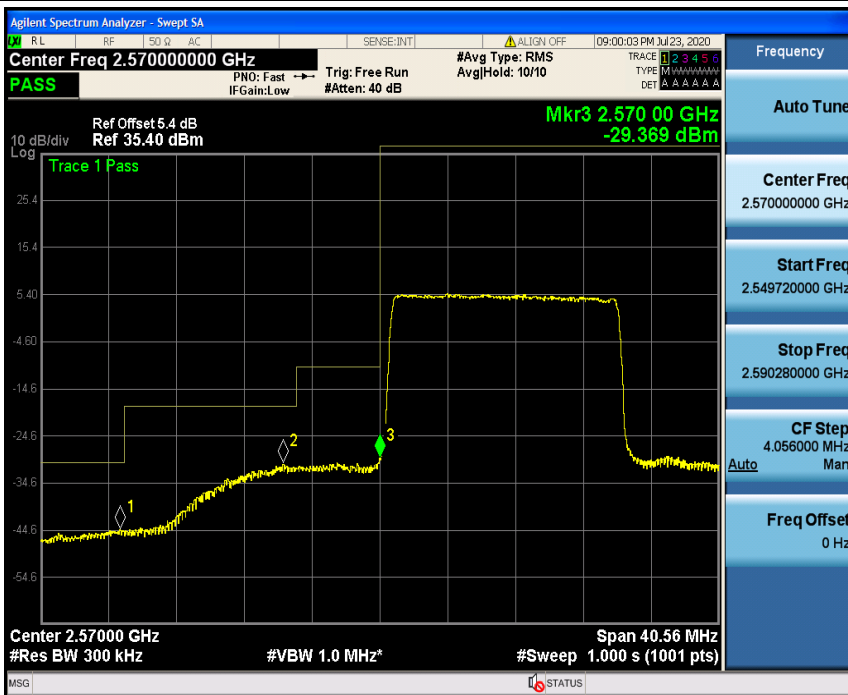
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

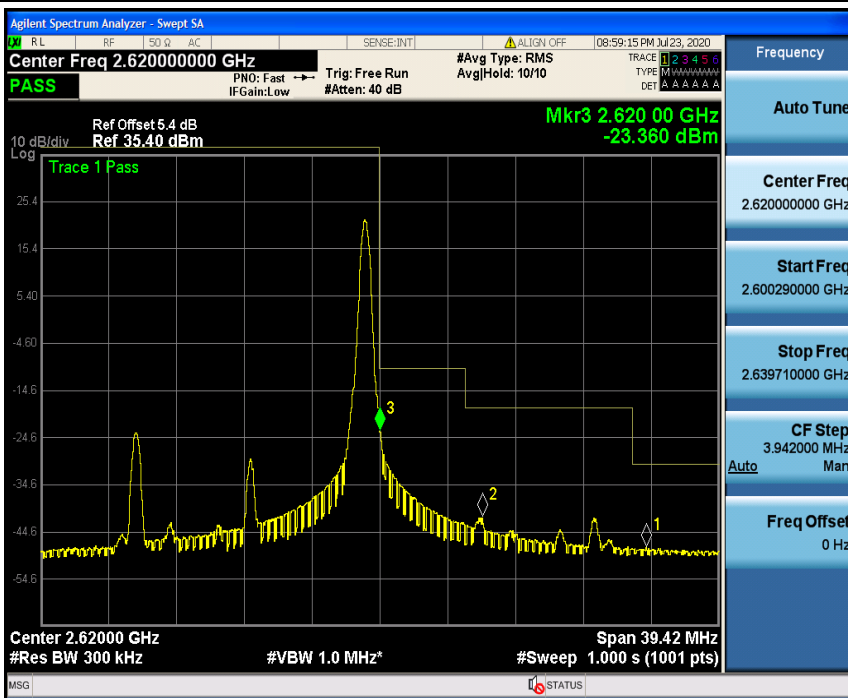
SGS-CSTC Standards Technical Services Co., Ltd. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 Shenzhen Branch, 100011100000 Laboratory 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-15MHz-16QAM-37825-75RB#0



Band38-15MHz-16QAM-38175-1RB#74



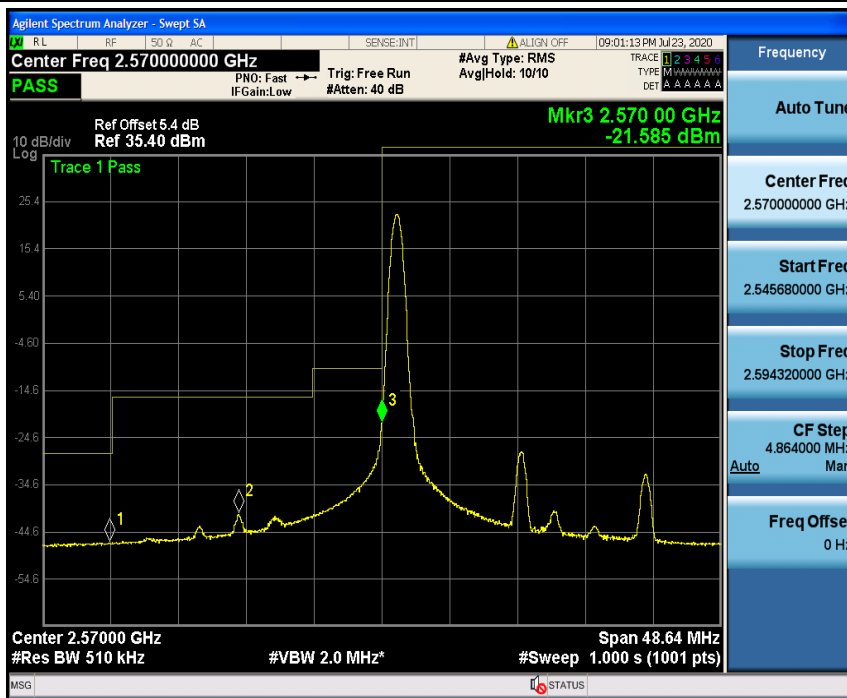
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-15MHz-16QAM-38175-75RB#0



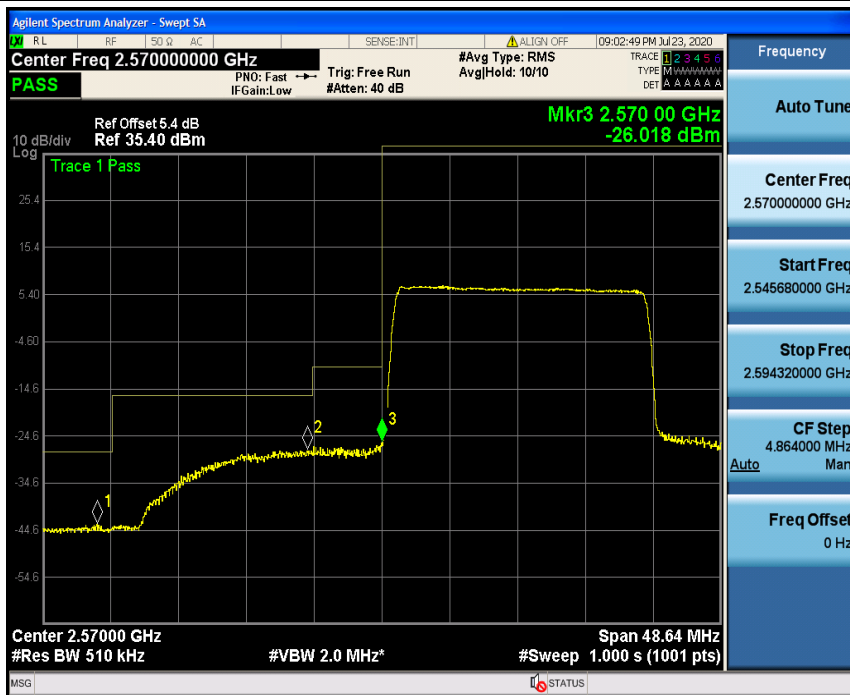
Band38-20MHz-QPSK-37850-1RB#0



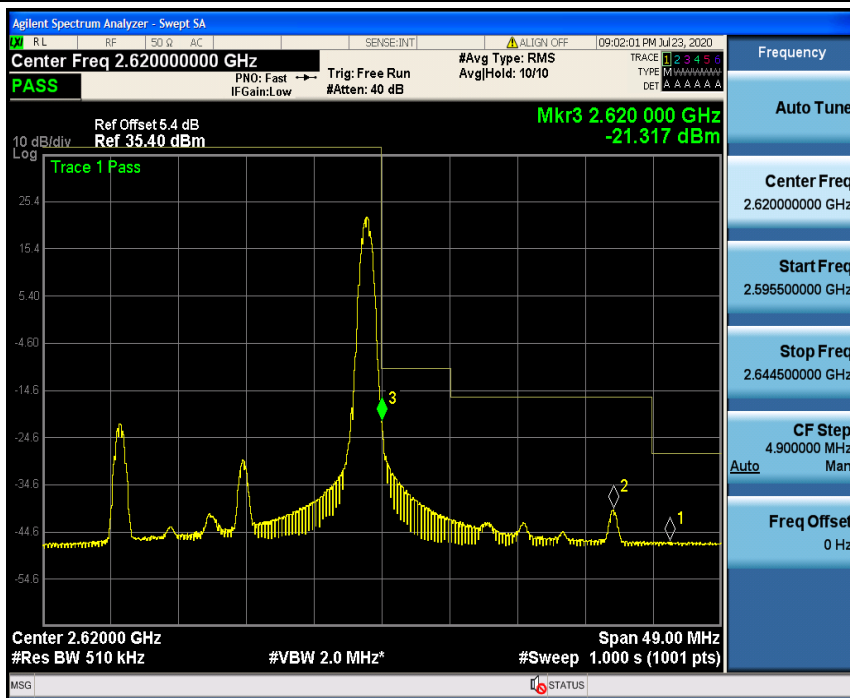
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-QPSK-37850-100RB#0



Band38-20MHz-QPSK-38150-1RB#99



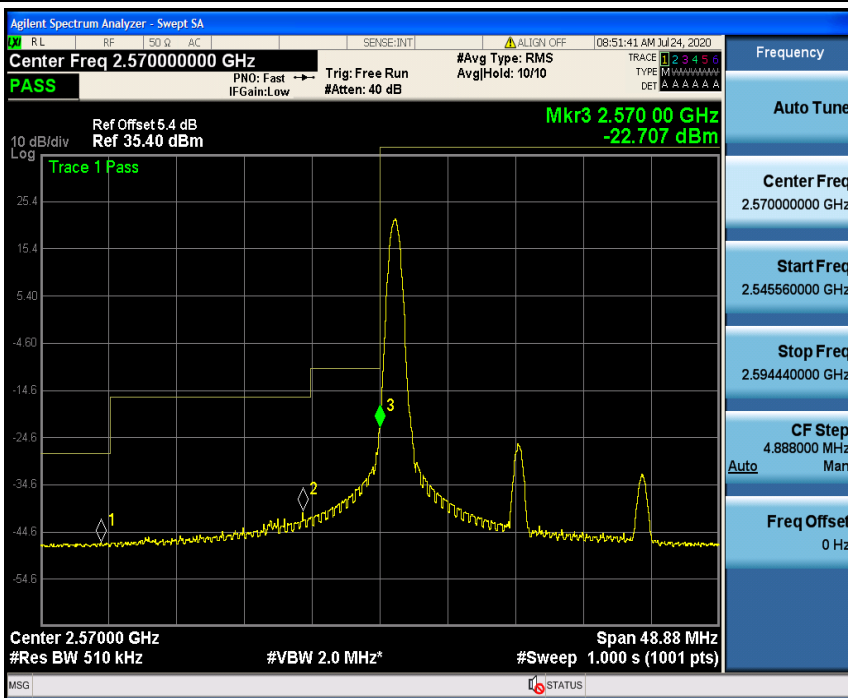
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-QPSK-38150-100RB#0



Band38-20MHz-64QAM-37850-1RB#0



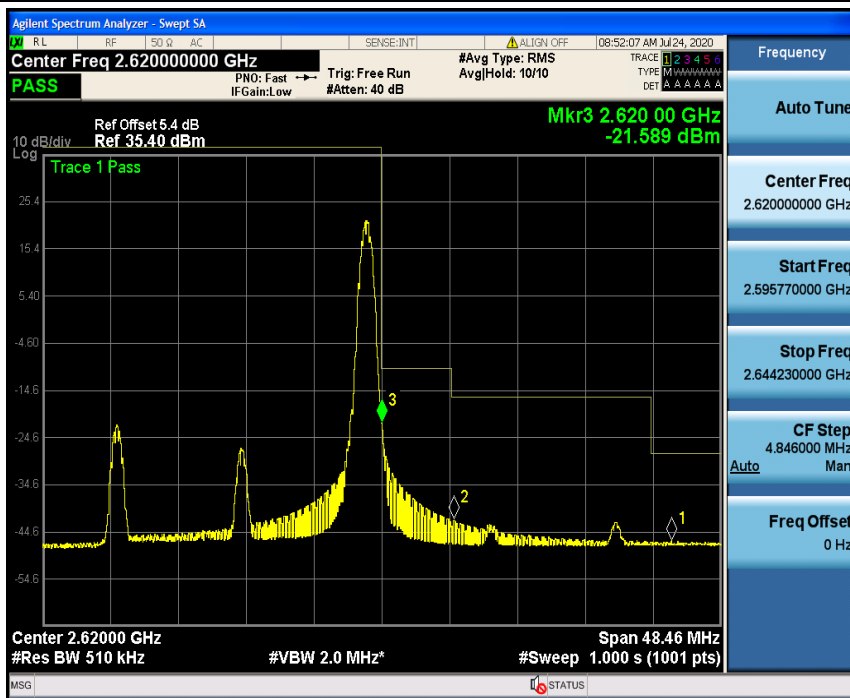
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-37850-100RB#0



Band38-20MHz-64QAM-38150-1RB#99



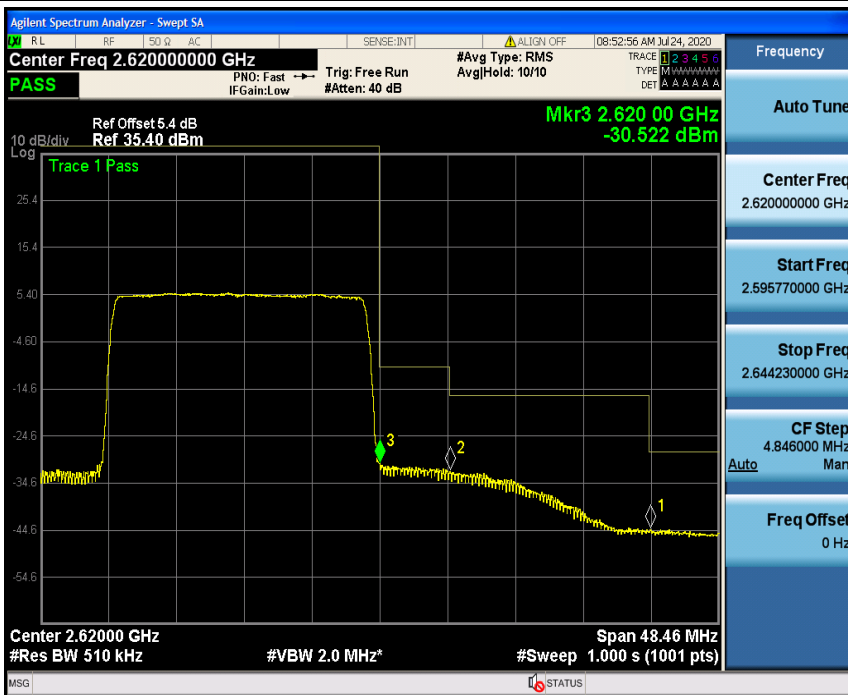
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

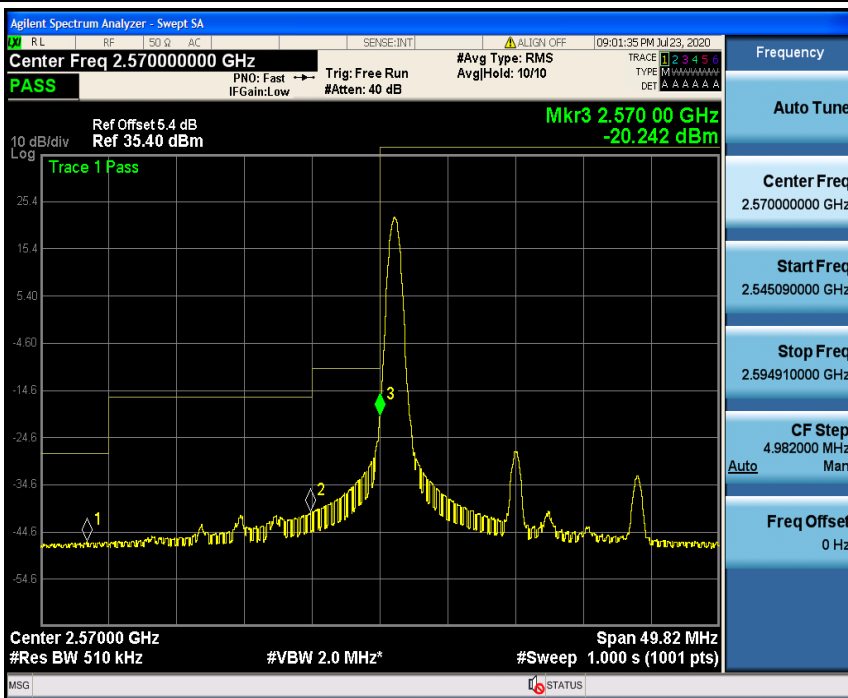
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band38-20MHz-64QAM-38150-100RB#0



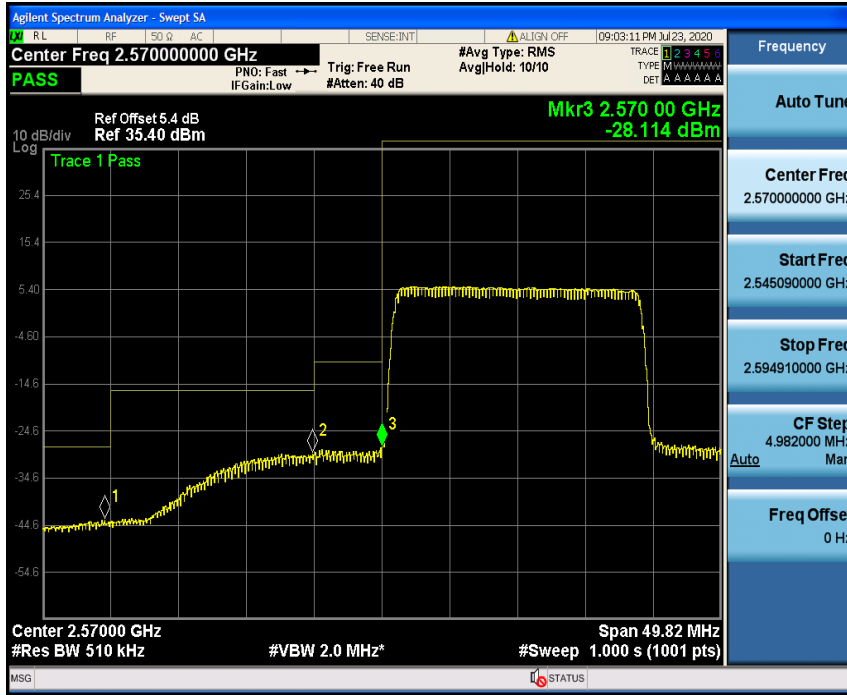
Band38-20MHz-16QAM-37850-1RB#0



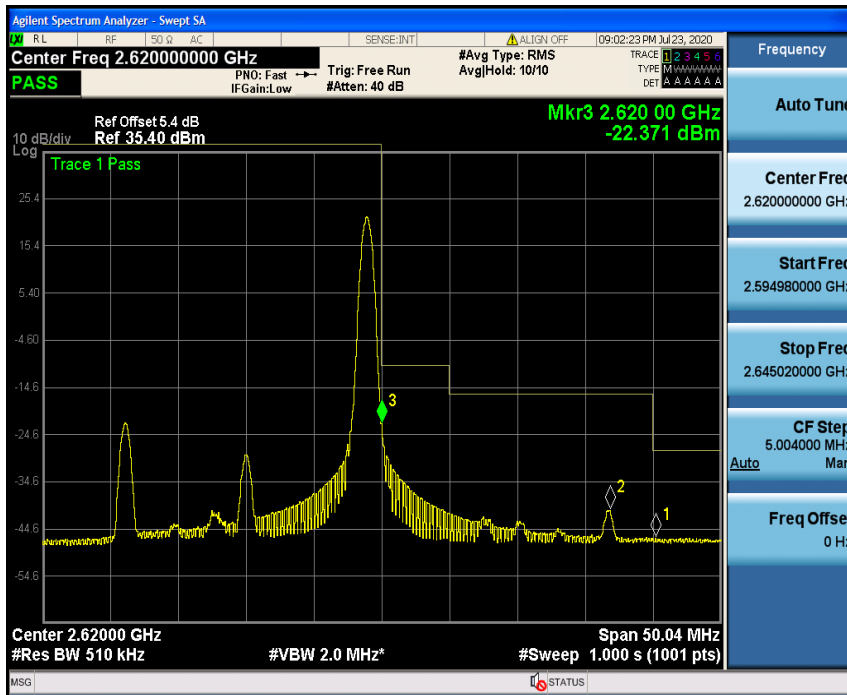
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-16QAM-37850-100RB#0



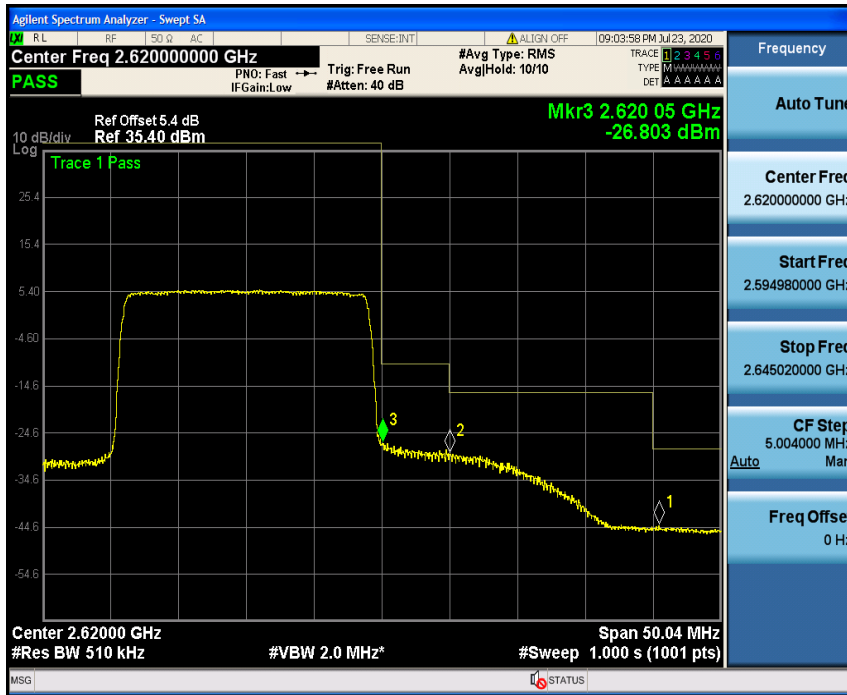
Band38-20MHz-16QAM-38150-1RB#99



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.



Band38-20MHz-16QAM-38150-100RB#0



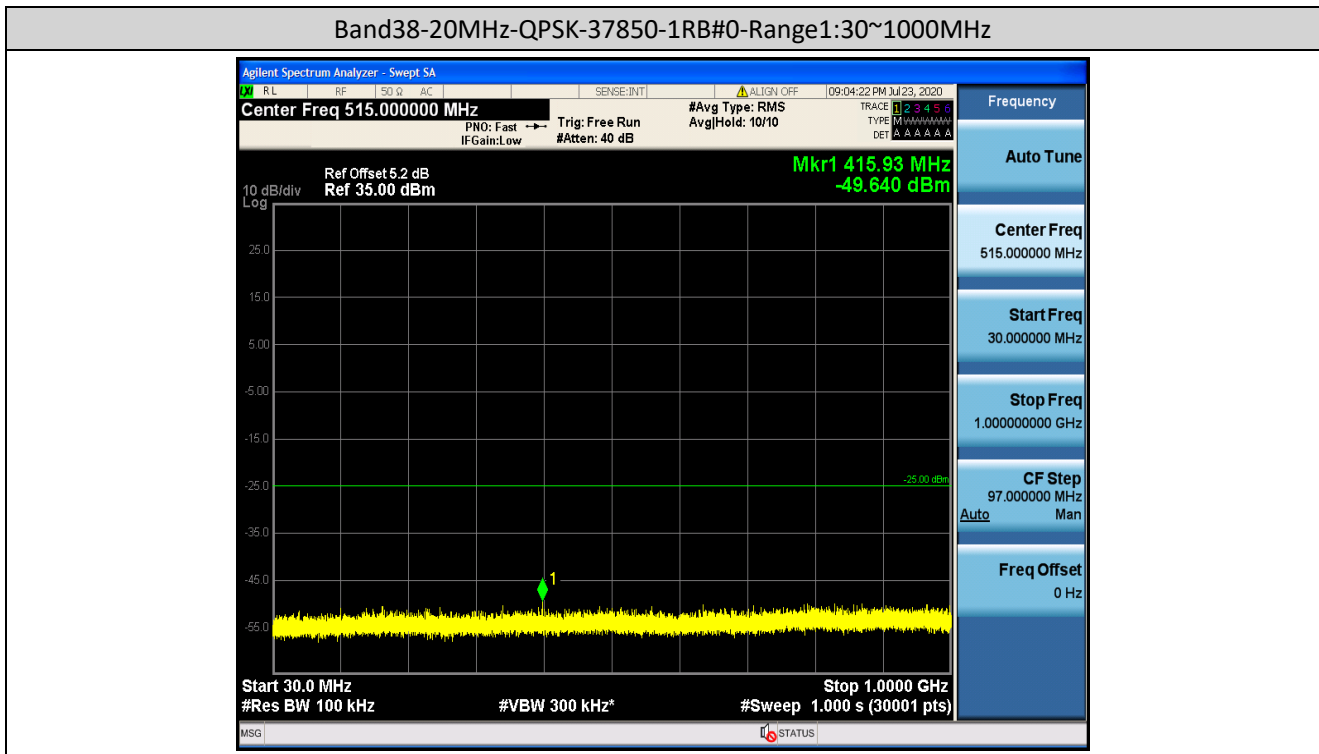
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

## 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 =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

### 6.1. Test Plots



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

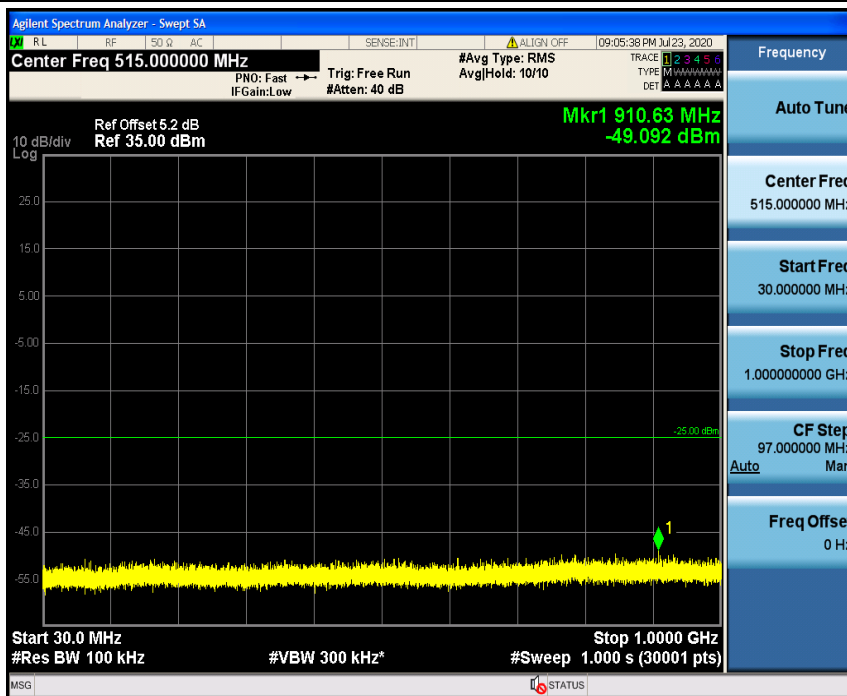
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~30000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



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

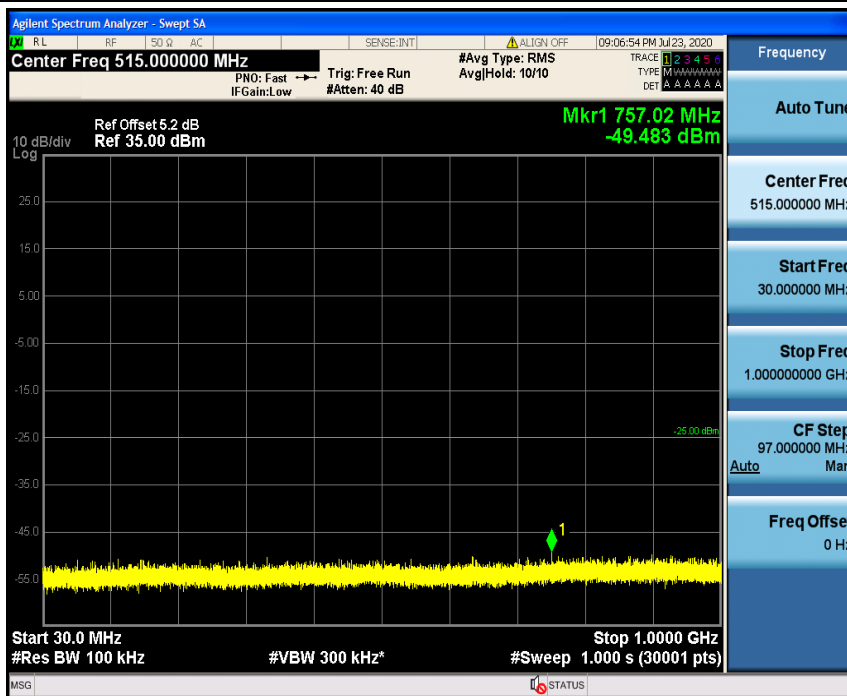
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~30000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



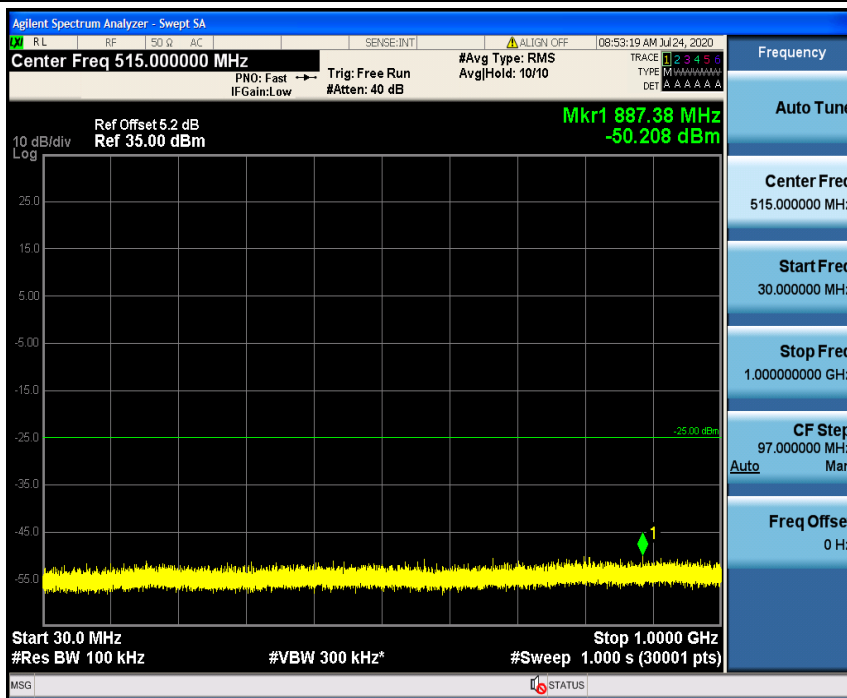
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



**Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~30000MHz**



**Band38-20MHz-64QAM-37850-1RB#0-Range1:30~1000MHz**



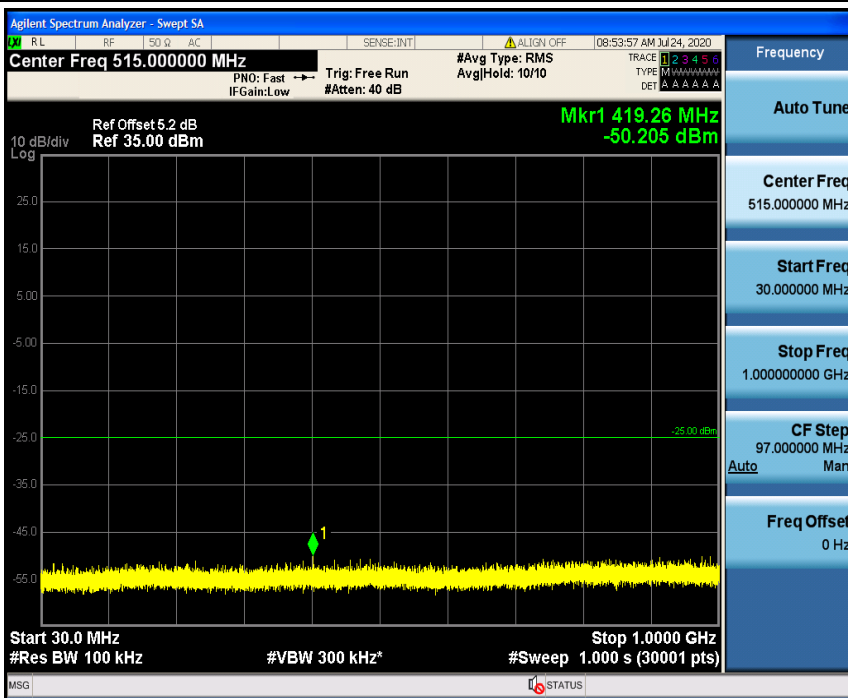
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-37850-1RB#0-Range2:1000~30000MHz



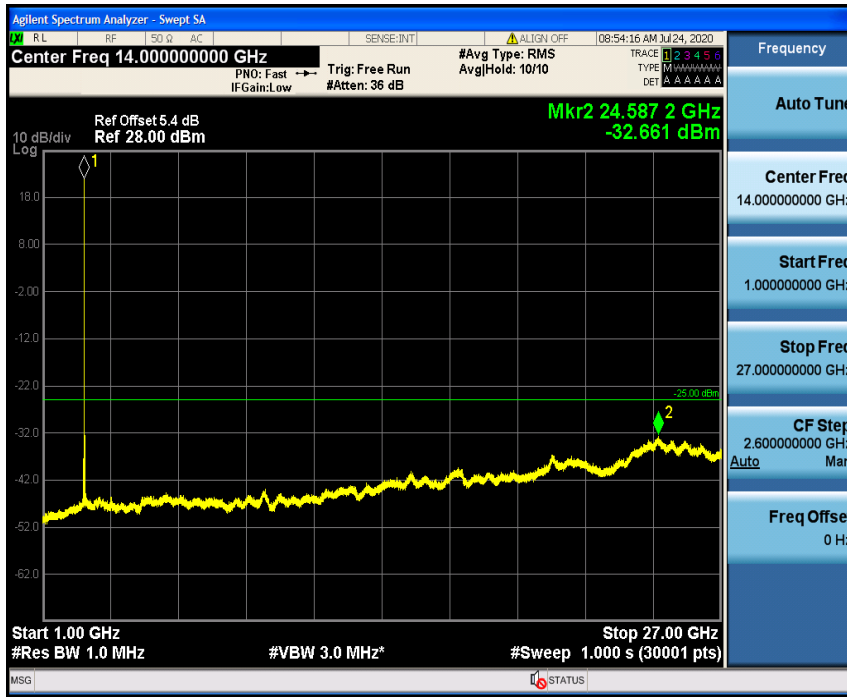
Band38-20MHz-64QAM-38000-1RB#0-Range1:30~1000MHz



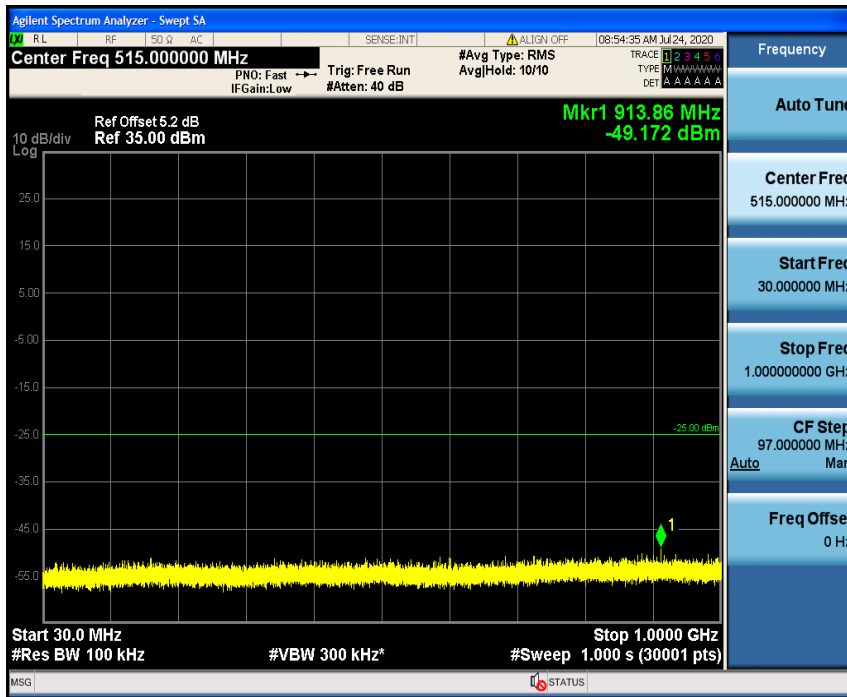
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-38000-1RB#0-Range2:1000~30000MHz



Band38-20MHz-64QAM-38150-1RB#0-Range1:30~1000MHz



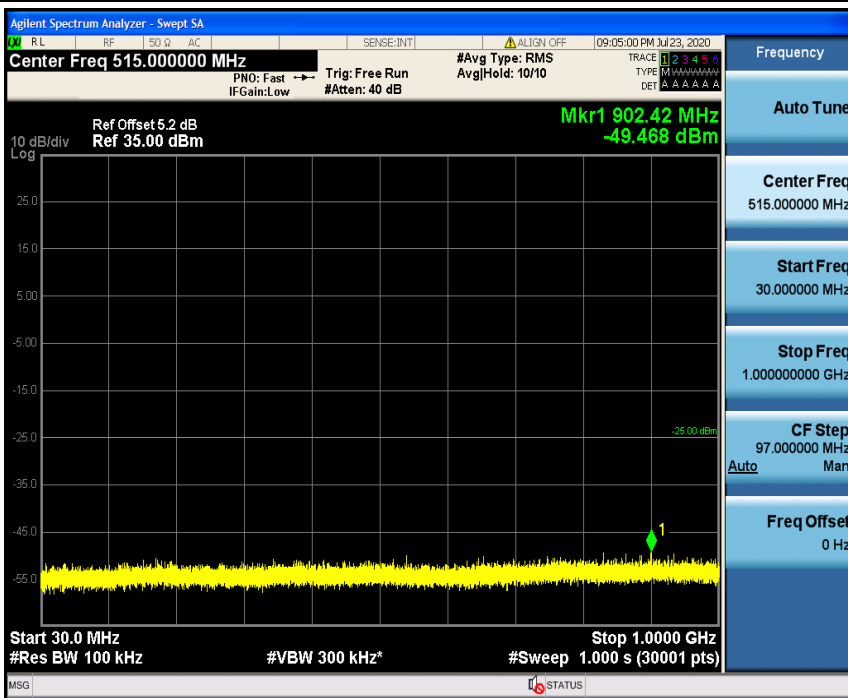
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-64QAM-38150-1RB#0-Range2:1000~30000MHz



Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



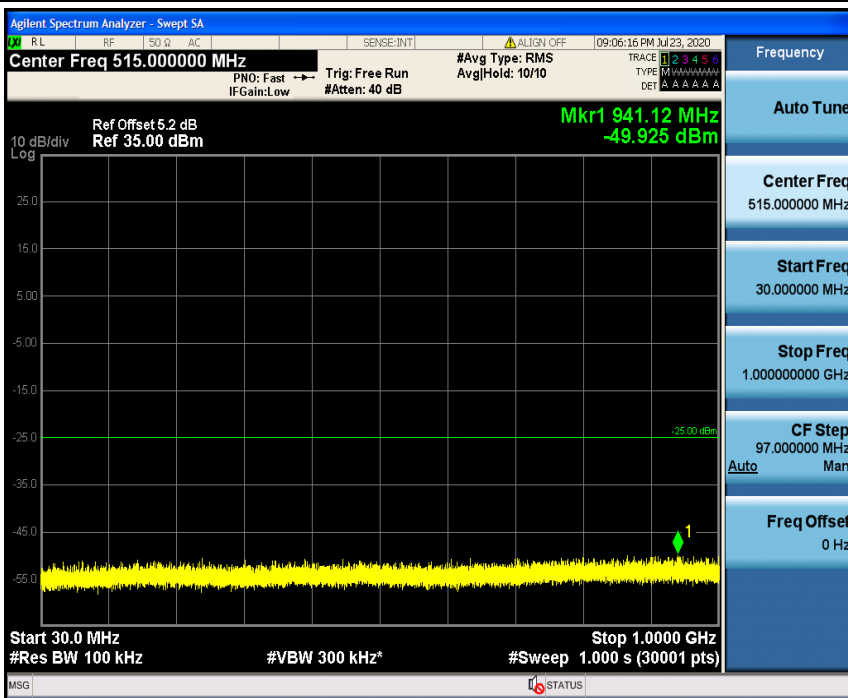
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~30000MHz



Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



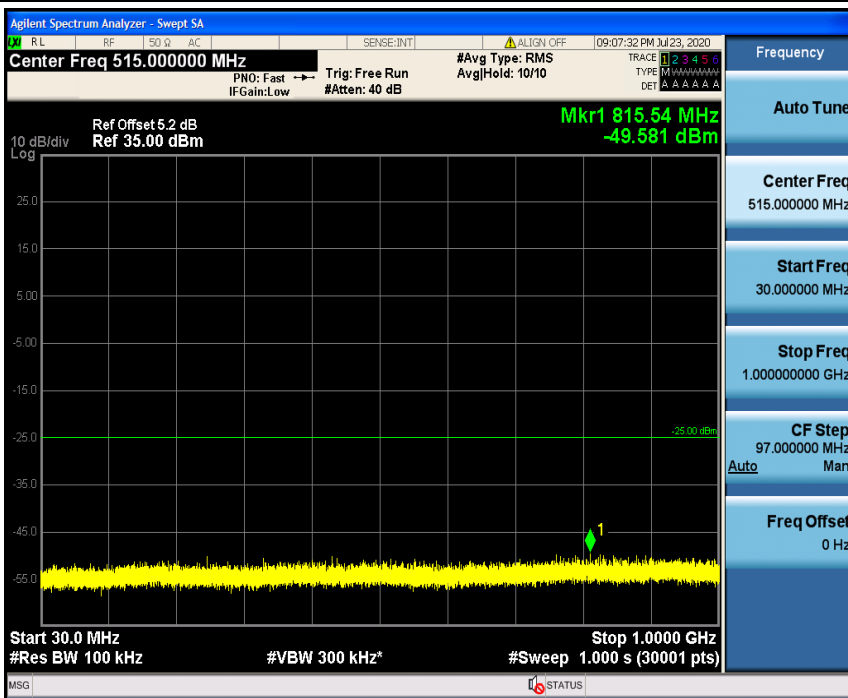
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~30000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



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



Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~30000MHz



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](mailto:CN.Doccheck@sgs.com)

## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.3896	-71.89	-25.00	46.89	Vertical
109.0590	-65.03	-25.00	40.03	Vertical
339.3485	-68.46	-25.00	43.46	Vertical
5142.0714	-58.79	-25.00	33.79	Vertical
7713.1571	-54.25	-25.00	29.25	Vertical
17997.4999	-39.86	-25.00	14.86	Vertical
45.4723	-64.60	-25.00	39.60	Horizontal
228.1809	-68.47	-25.00	43.47	Horizontal
586.2258	-63.83	-25.00	38.83	Horizontal
3627.0209	-61.28	-25.00	36.28	Horizontal
8022.6674	-56.09	-25.00	31.09	Horizontal
16388.4463	-42.50	-25.00	17.50	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.1471	-71.91	-25.00	46.91	Vertical
110.9505	-64.73	-25.00	39.73	Vertical
322.6151	-68.18	-25.00	43.18	Vertical
5117.0706	-61.40	-25.00	36.40	Vertical
7758.1586	-52.75	-25.00	27.75	Vertical
17998.5000	-39.97	-25.00	14.97	Vertical
41.6891	-63.20	-25.00	38.20	Horizontal
243.8472	-68.04	-25.00	43.04	Horizontal
517.4494	-64.83	-25.00	39.83	Horizontal
3572.0191	-61.03	-25.00	36.03	Horizontal
8002.1667	-56.00	-25.00	31.00	Horizontal
16404.4468	-43.20	-25.00	18.20	Horizontal



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

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

**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.7405	-72.22	-25.00	47.22	Vertical
108.9619	-64.40	-25.00	39.40	Vertical
327.0774	-68.74	-25.00	43.74	Vertical
5202.0734	-61.60	-25.00	36.60	Vertical
7803.6601	-52.61	-25.00	27.61	Vertical
17999.5000	-39.82	-25.00	14.82	Vertical
43.0472	-63.19	-25.00	38.19	Horizontal
237.2024	-68.00	-25.00	43.00	Horizontal
594.0832	-63.87	-25.00	38.87	Horizontal
5141.0714	-61.44	-25.00	36.44	Horizontal
7452.6484	-56.22	-25.00	31.22	Horizontal
16392.9464	-43.36	-25.00	18.36	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-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](mailto:CN.Doccheck@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
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-5.90	-0.002287	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-7.60	-0.002946	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-8.50	-0.003295	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-7.50	-0.002890	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-10.10	-0.003892	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-8.90	-0.003410	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	-8.90	-0.003410	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-4.30	-0.001648	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VL	NT	-5.00	-0.001938	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VN	NT	-4.90	-0.001899	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	VH	NT	-9.20	-0.003566	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VL	NT	-9.90	-0.003815	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VN	NT	-10.00	-0.003854	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	VH	NT	-8.30	-0.003198	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VL	NT	-9.30	-0.003563	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VN	NT	-6.70	-0.002567	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	VH	NT	-10.50	-0.004023	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-7.50	-0.002907	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-7.10	-0.002752	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-7.40	-0.002852	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-7.10	-0.002736	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-8.20	-0.003160	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-7.60	-0.002912	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-7.40	-0.002835	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-8.10	-0.003103	±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](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	-7.70	-0.002984	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-8.20	-0.003178	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	-8.90	-0.003450	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-8.00	-0.003101	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-5.60	-0.002171	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-7.30	-0.002829	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-10.80	-0.004186	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-7.70	-0.002984	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-6.00	-0.002326	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-6.60	-0.002543	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-4.60	-0.001773	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-9.40	-0.003622	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-7.30	-0.002813	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-7.50	-0.002890	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-9.60	-0.003678	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-8.40	-0.003218	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-3.50	-0.001341	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-8.30	-0.003180	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	-8.10	-0.003103	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-7.20	-0.002759	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-7.30	-0.002797	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-30	-9.40	-0.003643	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-20	-11.20	-0.004341	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	-10	-10.30	-0.003992	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	0	-9.50	-0.003682	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	10	-8.20	-0.003178	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	20	-7.90	-0.003062	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	30	-4.70	-0.001822	±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](mailto: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



Band38	20MHz	64QAM	37850	100RB#0	NV	40	-8.30	-0.003217	±2.5	PASS
Band38	20MHz	64QAM	37850	100RB#0	NV	50	-9.90	-0.003837	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-30	-7.20	-0.002775	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-20	-9.70	-0.003738	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	-10	-8.60	-0.003314	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	0	-10.80	-0.004162	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	10	-8.70	-0.003353	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	20	-10.40	-0.004008	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	30	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	40	-7.00	-0.002697	±2.5	PASS
Band38	20MHz	64QAM	38000	100RB#0	NV	50	-7.70	-0.002967	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-30	-5.50	-0.002107	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-20	-5.40	-0.002069	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	-10	-7.70	-0.002950	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	0	-8.80	-0.003372	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	10	-6.50	-0.002490	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	20	-7.40	-0.002835	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	30	-7.80	-0.002989	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	40	-6.10	-0.002337	±2.5	PASS
Band38	20MHz	64QAM	38150	100RB#0	NV	50	-9.20	-0.003525	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-9.90	-0.003837	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-6.80	-0.002636	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-8.50	-0.003295	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-6.30	-0.002442	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-5.80	-0.002248	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-4.20	-0.001628	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-7.80	-0.003023	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-8.90	-0.003450	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-7.80	-0.003023	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-5.10	-0.001965	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-6.40	-0.002466	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-8.90	-0.003430	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-6.80	-0.002620	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-8.40	-0.003237	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-9.60	-0.003699	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-6.70	-0.002582	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-8.70	-0.003353	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-4.80	-0.001850	±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](mailto:CN.Doccheck@sgs.com)

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



Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-6.40	-0.002452	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-6.90	-0.002644	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-5.30	-0.002031	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-2.90	-0.001111	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-5.30	-0.002031	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-10.20	-0.003908	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-8.00	-0.003065	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-7.30	-0.002797	±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](mailto: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