



Appendix B

E-UTRA Band 41



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

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



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1.	TEST RESULT	3
2.	PEAK-TO-AVERAGE RATIO (CCDF)	10
2.1.	TEST RESULT	10
2.2.	TEST PLOTS.....	10
3.	MODULATION CHARACTERISTICS	15
3.1.	TEST MODE = LTE /TM1 20MHZ.....	15
3.1.1.	TEST CHANNEL = MCH.....	15
3.2.	TEST MODE = LTE /TM2 20MHZ.....	16
3.2.1.	TEST CHANNEL = MCH.....	16
3.3.	TEST MODE = LTE /TM3 20MHZ.....	17
3.3.1.	TEST CHANNEL = MCH.....	17
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	18
4.1.	TEST RESULT	18
4.2.	TEST PLOTS.....	19
5.	BAND EDGE COMPLIANCE	37
5.1.	TEST PLOTS.....	37
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL	62
6.1.	TEST PLOTS.....	62
7.	FIELD STRENGTH OF SPURIOUS RADIATION	71
7.1.	TEST MODE =LTE/TM1	71
7.1.1.	TEST CHANNEL = LCH	71
7.1.2.	TEST CHANNEL = MCH.....	71
7.1.3.	TEST CHANNEL = HCH.....	72
8.	FREQUENCY STABILITY.....	73
8.1.	FREQUENCY VS VOLTAGE	73
8.2.	FREQUENCY VS TEMPERATURE	73



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

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



1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	21.61	28.61	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	21.85	28.85	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	21.67	28.67	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.06	28.06	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.41	28.41	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.05	28.05	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	20.94	27.94	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.04	31.04	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.36	31.36	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.42	31.42	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	23.92	30.92	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	23.36	30.36	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	23.32	30.32	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.45	30.45	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.82	30.82	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.80	30.8	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.67	30.67	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.81	29.81	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.53	29.53	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.93	29.93	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.74	29.74	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	19.51	26.51	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	19.73	26.73	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	19.77	26.77	33.00	PASS
Band41	5MHz	64QAM	39675	12RB#0	19.54	26.54	33.00	PASS
Band41	5MHz	64QAM	39675	12RB#13	18.79	25.79	33.00	PASS
Band41	5MHz	64QAM	39675	12RB#6	18.90	25.9	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	18.83	25.83	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.87	28.87	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	22.21	29.21	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	22.22	29.22	33.00	PASS
Band41	5MHz	64QAM	40620	12RB#6	21.29	28.29	33.00	PASS



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

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

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



Band41	5MHz	64QAM	40620	12RB#0	21.82	28.82	33.00	PASS
Band41	5MHz	64QAM	40620	12RB#13	21.26	28.26	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	21.41	28.41	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.61	28.61	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.43	28.43	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.60	28.6	33.00	PASS
Band41	5MHz	64QAM	41565	12RB#13	20.64	27.64	33.00	PASS
Band41	5MHz	64QAM	41565	12RB#6	20.75	27.75	33.00	PASS
Band41	5MHz	64QAM	41565	12RB#0	21.09	28.09	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.80	27.8	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	20.99	27.99	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	20.80	27.8	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	20.63	27.63	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	19.84	26.84	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.14	27.14	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.39	27.39	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	19.95	26.95	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.16	30.16	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.33	30.33	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.30	30.3	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	22.75	29.75	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#6	22.20	29.2	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	22.18	29.18	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.19	29.19	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.79	29.79	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.68	29.68	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.62	29.62	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.63	28.63	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.61	28.61	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.96	28.96	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.66	28.66	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.52	30.52	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.48	29.48	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.38	29.38	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.54	28.54	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.45	28.45	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.95	28.95	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.67	28.67	33.00	PASS





Band41	10MHz	QPSK	40620	1RB#24	24.45	31.45	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.74	31.74	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.18	32.18	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	23.57	30.57	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	23.82	30.82	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	23.70	30.7	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.77	30.77	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.11	31.11	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.10	31.1	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.81	31.81	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	23.14	30.14	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	23.63	30.63	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.93	29.93	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.29	30.29	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	20.02	27.02	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.36	28.36	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	20.17	27.17	33.00	PASS
Band41	10MHz	64QAM	39700	25RB#0	19.10	26.1	33.00	PASS
Band41	10MHz	64QAM	39700	25RB#12	19.18	26.18	33.00	PASS
Band41	10MHz	64QAM	39700	25RB#25	19.57	26.57	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	19.31	26.31	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	22.64	29.64	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	22.91	29.91	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	22.25	29.25	33.00	PASS
Band41	10MHz	64QAM	40620	25RB#0	21.66	28.66	33.00	PASS
Band41	10MHz	64QAM	40620	25RB#12	21.59	28.59	33.00	PASS
Band41	10MHz	64QAM	40620	25RB#25	21.48	28.48	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	21.61	28.61	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	22.61	29.61	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.84	28.84	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.95	28.95	33.00	PASS
Band41	10MHz	64QAM	41540	25RB#25	20.98	27.98	33.00	PASS
Band41	10MHz	64QAM	41540	25RB#0	21.68	28.68	33.00	PASS
Band41	10MHz	64QAM	41540	25RB#12	21.28	28.28	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	21.22	28.22	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.33	28.33	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.63	28.63	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.52	29.52	33.00	PASS



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

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



Band41	10MHz	16QAM	39700	25RB#12	20.55	27.55	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.31	27.31	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.94	27.94	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.79	27.79	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.28	31.28	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.73	30.73	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.56	30.56	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	22.54	29.54	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	22.56	29.56	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	22.45	29.45	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.85	29.85	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.95	30.95	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.12	30.12	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.93	29.93	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	22.30	29.3	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.95	28.95	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.84	28.84	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.08	29.08	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.12	30.12	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.03	30.03	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.37	29.37	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	22.20	29.2	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	21.97	28.97	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	21.43	28.43	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.90	28.9	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.52	31.52	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.47	31.47	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.01	32.01	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	23.89	30.89	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	23.68	30.68	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	23.61	30.61	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.80	30.8	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.51	31.51	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.68	31.68	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.21	31.21	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	23.89	30.89	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	23.33	30.33	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	23.23	30.23	33.00	PASS





Band41	15MHz	QPSK	41515	75RB#0	23.57	30.57	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	20.74	27.74	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	20.59	27.59	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.09	27.09	33.00	PASS
Band41	15MHz	64QAM	39725	36RB#0	19.01	26.01	33.00	PASS
Band41	15MHz	64QAM	39725	36RB#18	19.43	26.43	33.00	PASS
Band41	15MHz	64QAM	39725	36RB#39	19.89	26.89	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	19.49	26.49	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	22.15	29.15	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	22.81	29.81	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	22.95	29.95	33.00	PASS
Band41	15MHz	64QAM	40620	36RB#39	21.39	28.39	33.00	PASS
Band41	15MHz	64QAM	40620	36RB#0	21.60	28.6	33.00	PASS
Band41	15MHz	64QAM	40620	36RB#18	21.43	28.43	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	21.63	28.63	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	22.65	29.65	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	22.42	29.42	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.96	28.96	33.00	PASS
Band41	15MHz	64QAM	41515	36RB#18	21.56	28.56	33.00	PASS
Band41	15MHz	64QAM	41515	36RB#0	21.77	28.77	33.00	PASS
Band41	15MHz	64QAM	41515	36RB#39	21.03	28.03	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	21.53	28.53	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.31	29.31	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.47	28.47	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.13	29.13	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#0	20.48	27.48	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	20.90	27.9	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	20.61	27.61	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.99	27.99	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.56	30.56	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.23	31.23	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.42	31.42	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	22.56	29.56	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	22.51	29.51	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	22.68	29.68	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.86	29.86	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.29	31.29	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.46	30.46	33.00	PASS



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

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

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Shenzhen Branch: 中国·深圳·科技园中区M-10栋一号楼
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栋一号楼 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band41	15MHz	16QAM	41515	1RB#74	23.21	30.21	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	22.58	29.58	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	22.43	29.43	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	21.90	28.9	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.31	29.31	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.49	29.49	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.30	30.3	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.04	29.04	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.10	29.1	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.76	28.76	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.81	28.81	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.80	28.8	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.91	31.91	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.49	32.49	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.42	31.42	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.08	31.08	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	23.66	30.66	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.71	30.71	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.86	30.86	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.88	31.88	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.00	32	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.28	31.28	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	23.46	30.46	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	23.98	30.98	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.38	30.38	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.70	30.7	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	20.24	27.24	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	20.77	27.77	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	19.99	26.99	33.00	PASS
Band41	20MHz	64QAM	39750	50RB#50	19.61	26.61	33.00	PASS
Band41	20MHz	64QAM	39750	50RB#0	19.41	26.41	33.00	PASS
Band41	20MHz	64QAM	39750	50RB#25	19.66	26.66	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	19.38	26.38	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	23.16	30.16	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	22.21	29.21	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	22.95	29.95	33.00	PASS
Band41	20MHz	64QAM	40620	50RB#0	21.91	28.91	33.00	PASS
Band41	20MHz	64QAM	40620	50RB#25	21.53	28.53	33.00	PASS



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

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



Band41	20MHz	64QAM	40620	50RB#50	21.61	28.61	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	21.70	28.7	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	22.19	29.19	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	23.11	30.11	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	22.66	29.66	33.00	PASS
Band41	20MHz	64QAM	41490	50RB#0	21.80	28.8	33.00	PASS
Band41	20MHz	64QAM	41490	50RB#50	21.40	28.4	33.00	PASS
Band41	20MHz	64QAM	41490	50RB#25	21.78	28.78	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	21.66	28.66	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.75	28.75	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.42	29.42	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.05	28.05	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.86	27.86	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.80	27.8	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.56	27.56	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.94	27.94	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.51	31.51	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.02	31.02	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.54	30.54	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	22.89	29.89	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	22.51	29.51	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	22.68	29.68	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.97	29.97	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.04	31.04	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.29	30.29	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.64	30.64	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	22.11	29.11	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	22.50	29.5	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	22.66	29.66	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.45	29.45	33.00	PASS

Remark:

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

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

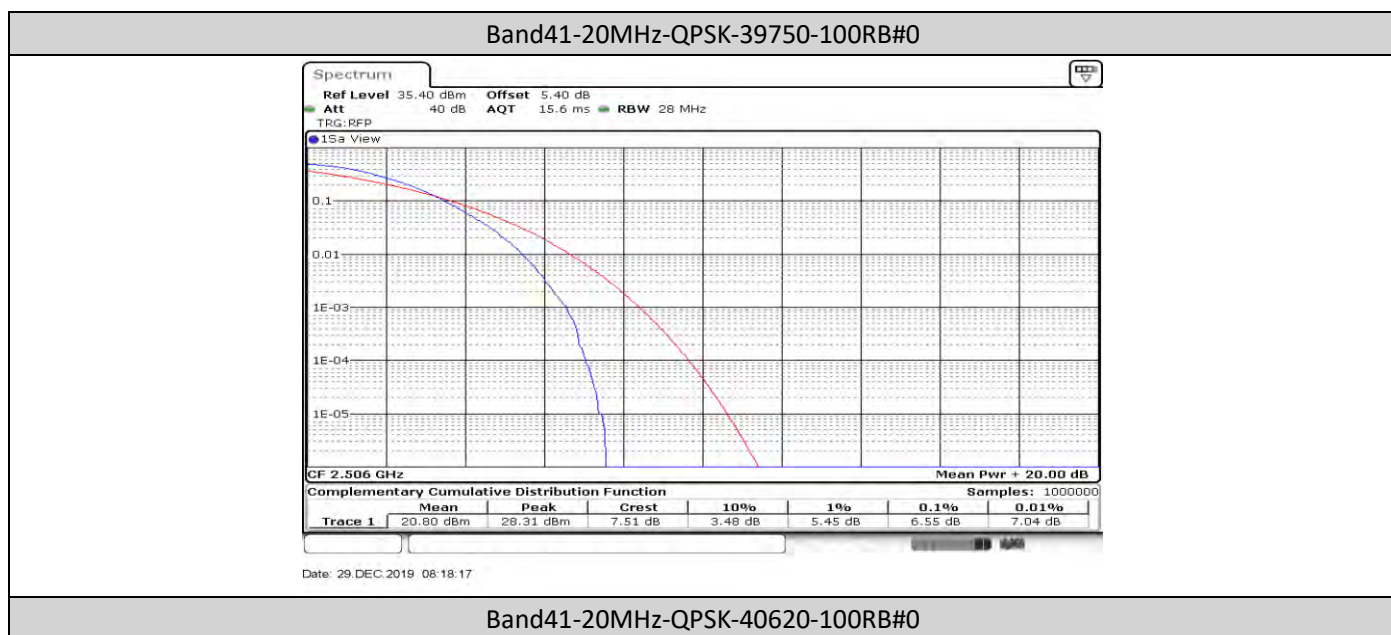


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	6.55	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.39	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.78	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	9.54	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.35	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.17	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.03	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.06	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.68	13	PASS

2.2. Test Plots





Band41-20MHz-QPSK-41490-100RB#0



Band41-20MHz-64QAM-39750-100RB#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) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-64QAM-41490-100RB#0





Band41-20MHz-16QAM-39750-100RB#0



Band41-20MHz-16QAM-40620-100RB#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 telephones: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Band41-20MHz-16QAM-41490-100RB#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.

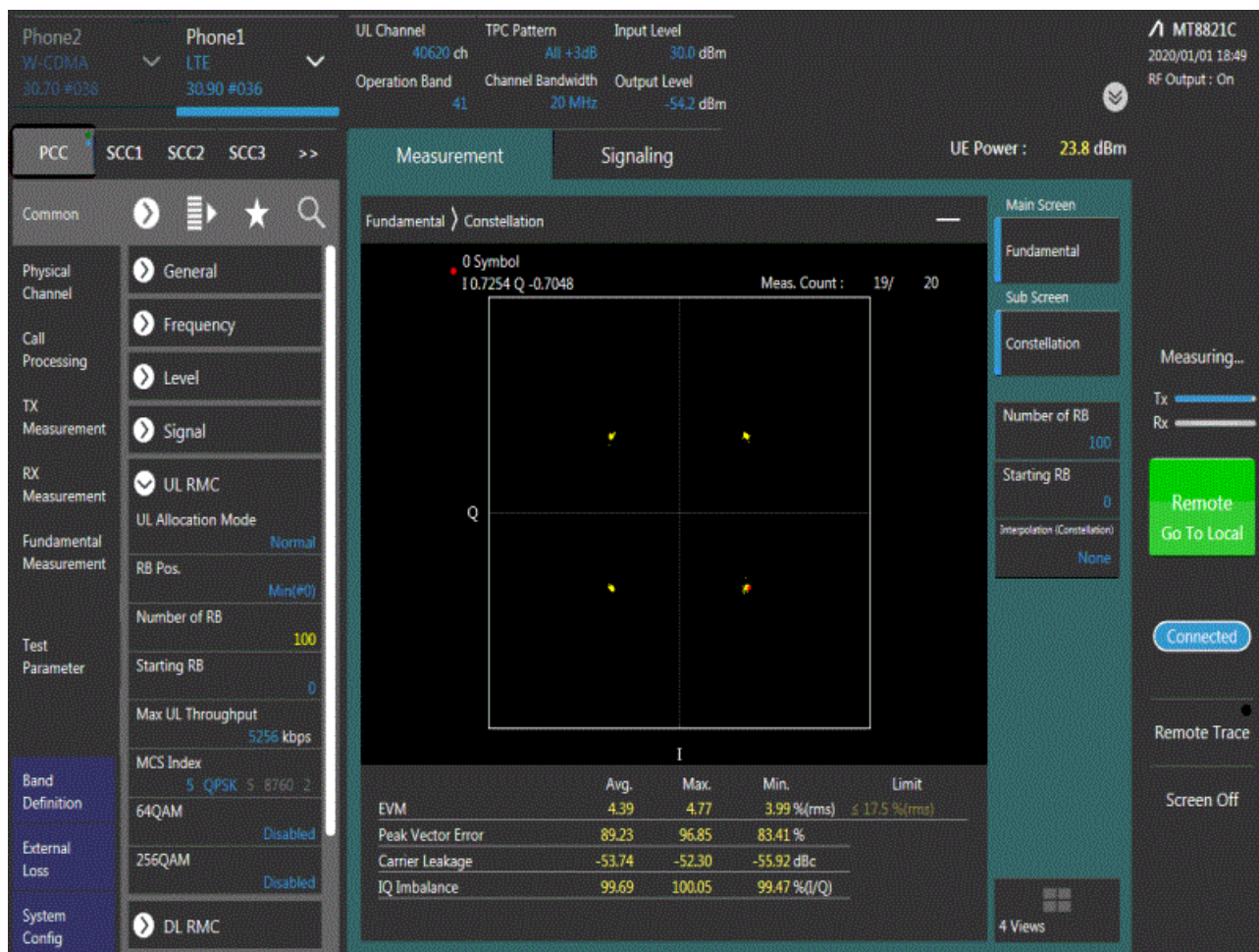
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephones: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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



3. Modulation Characteristics

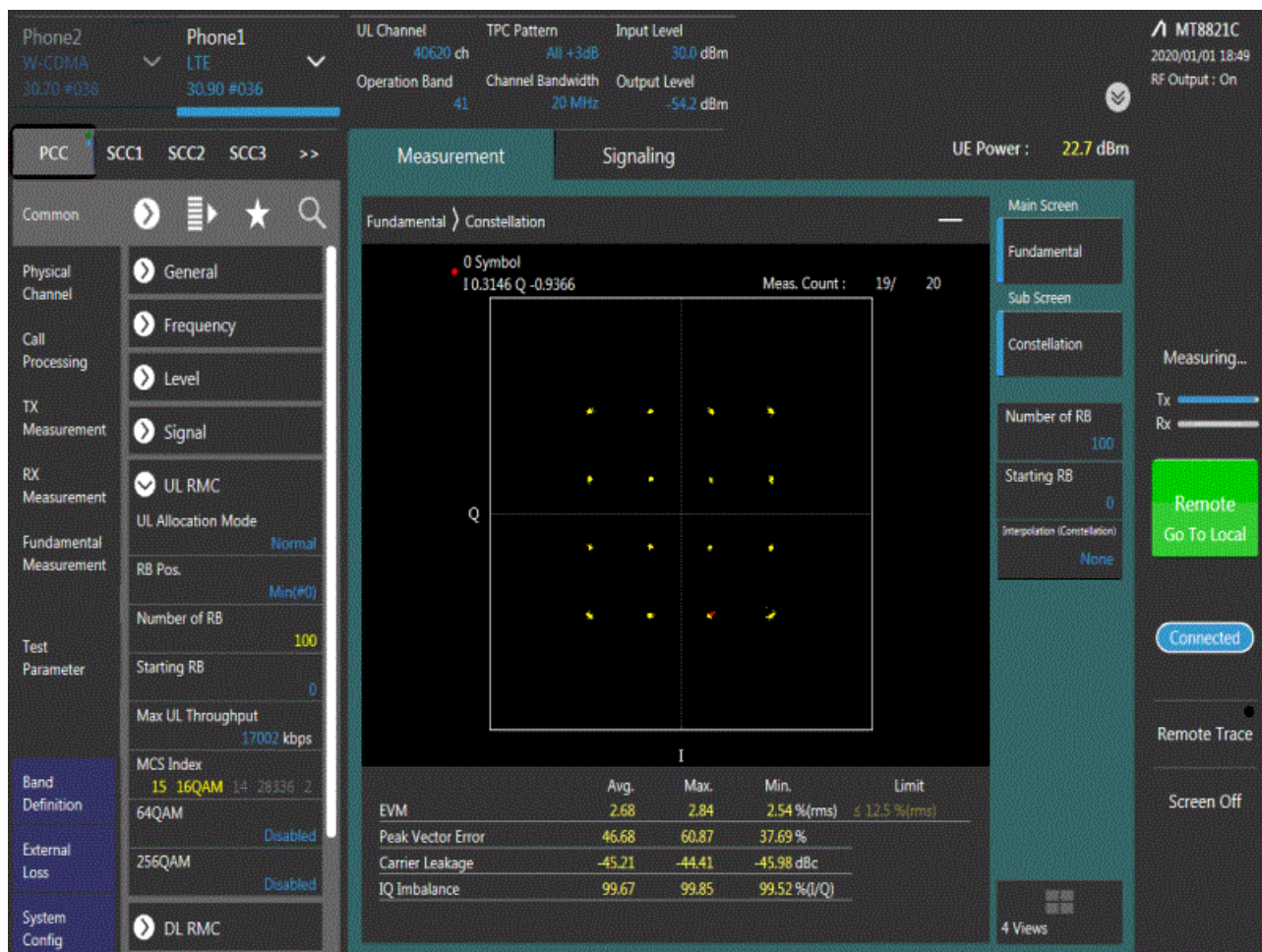
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 20MHz

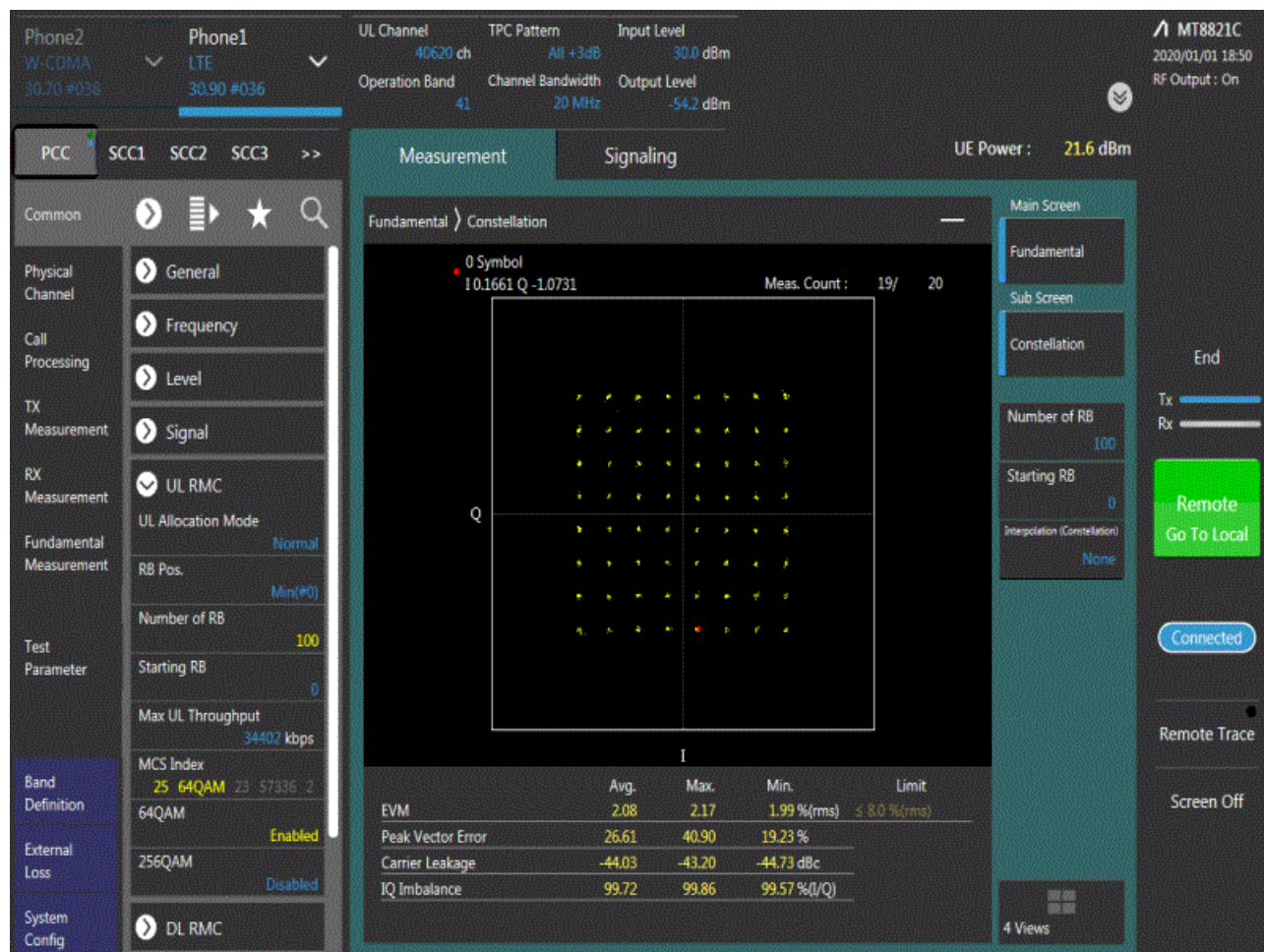
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.476	5.170	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	5.070	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	5.100	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	5.230	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.486	5.190	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.505	5.250	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.486	5.250	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.476	5.190	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.476	5.200	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.931	9.800	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.840	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.800	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.820	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.931	9.740	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.931	9.760	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.931	9.800	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.931	9.820	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.931	9.800	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.427	14.760	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.427	14.700	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	14.700	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.397	14.610	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.427	14.700	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	14.700	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.397	14.700	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.427	14.760	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.397	14.730	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.782	19.200	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.862	19.320	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.822	19.280	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.782	19.160	PASS



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

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



Band41	20MHz	16QAM	40620	100RB#0	17.862	19.200	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.200	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.742	19.240	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.822	19.240	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.822	19.280	PASS

4.2. Test Plots

Band41-5MHz-QPSK-39675-25RB#0-4.476



Band41-5MHz-QPSK-40620-25RB#0-4.476



Band41-5MHz-QPSK-41565-25RB#0-4.476



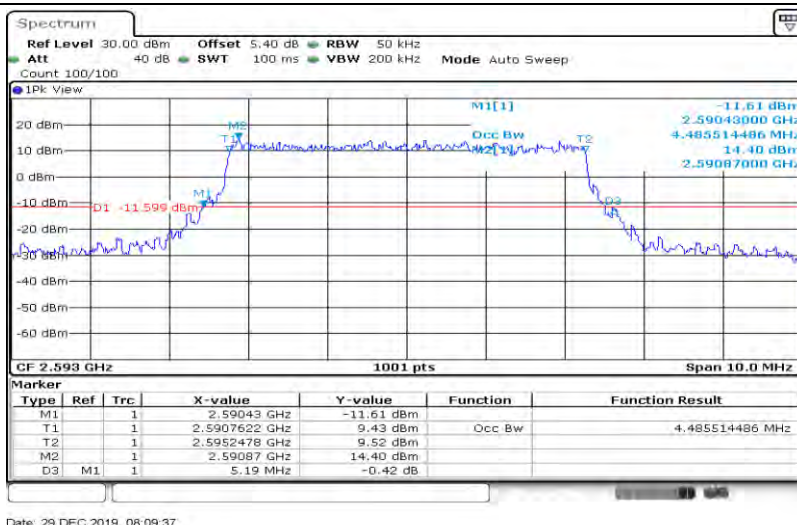


Band41-5MHz-16QAM-39675-25RB#0-4.496



Band41-5MHz-16QAM-40620-25RB#0-4.486





Band41-5MHz-16QAM-41565-25RB#0-4.505

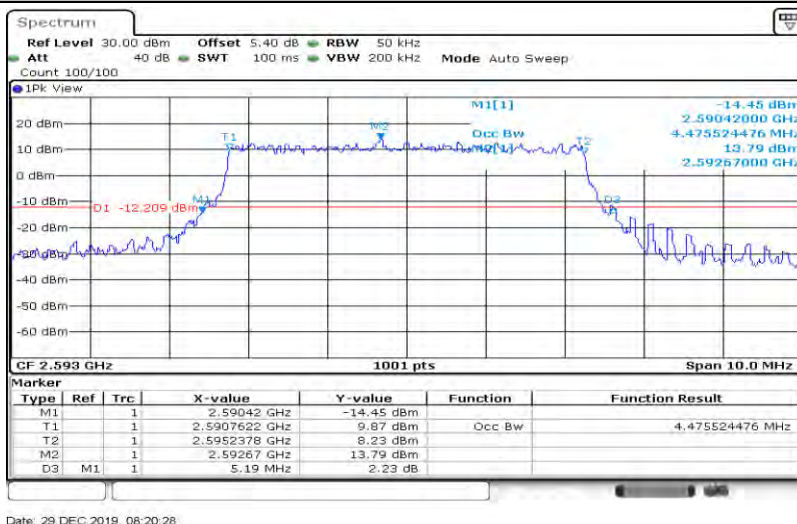


Band41-5MHz-64QAM-39675-25RB#0-4.486





Band41-5MHz-64QAM-40620-25RB#0-4.476

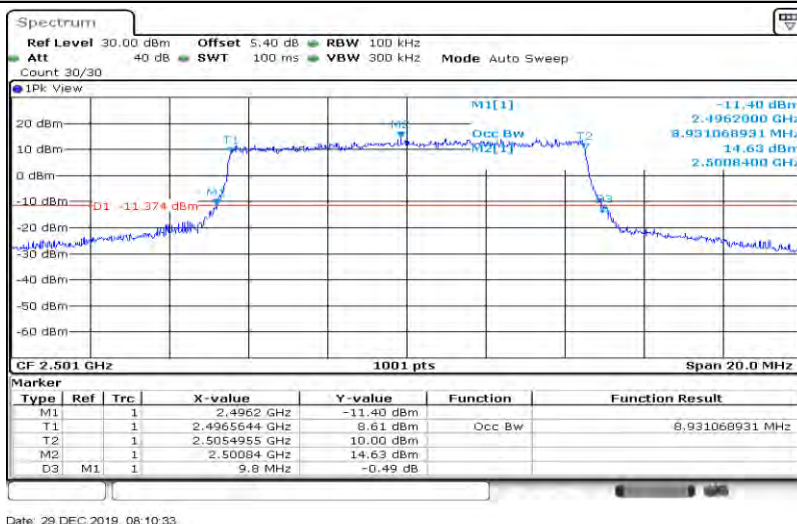


Band41-5MHz-64QAM-41565-25RB#0-4.476



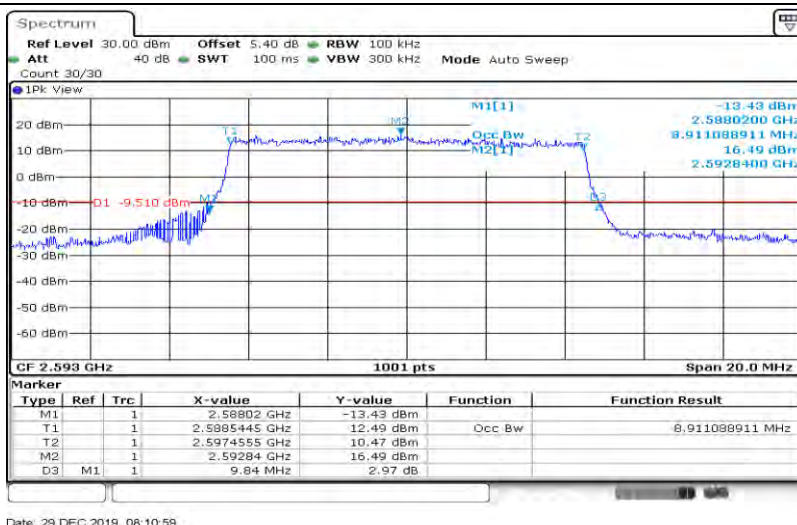


Band41-10MHz-QPSK-39700-50RB#0-8.931



Band41-10MHz-QPSK-40620-50RB#0-8.911



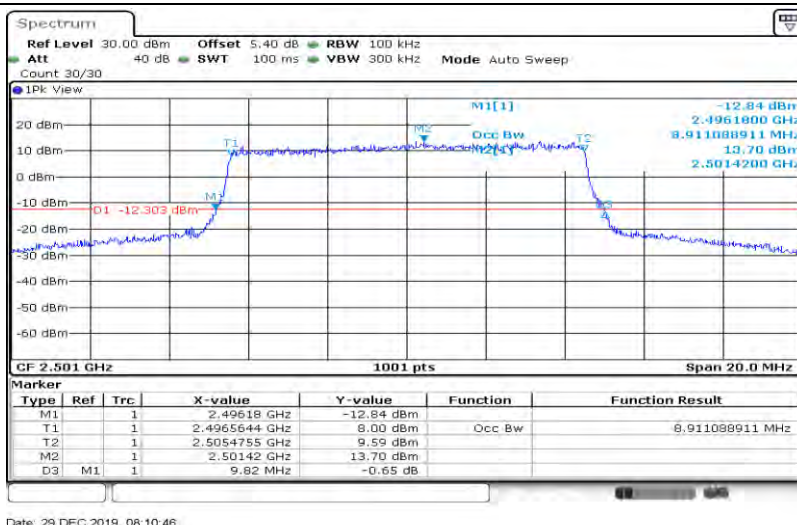


Band41-10MHz-QPSK-41540-50RB#0-8.911

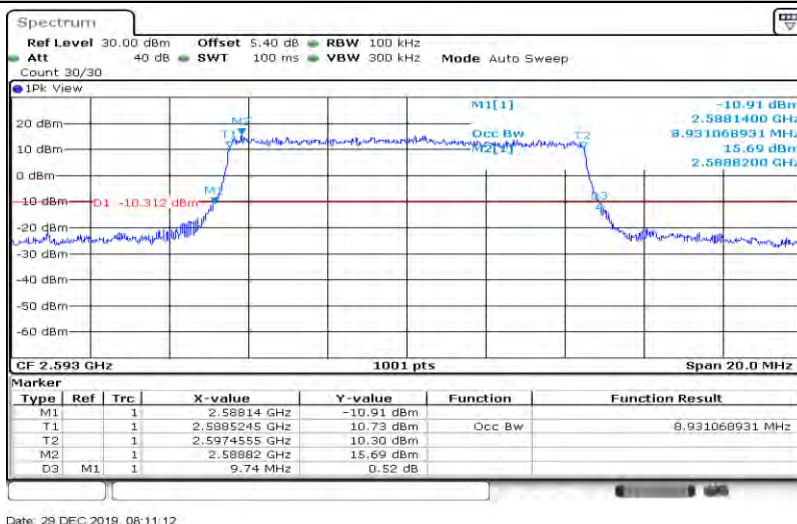


Band41-10MHz-16QAM-39700-50RB#0-8.911





Band41-10MHz-16QAM-40620-50RB#0-8.931

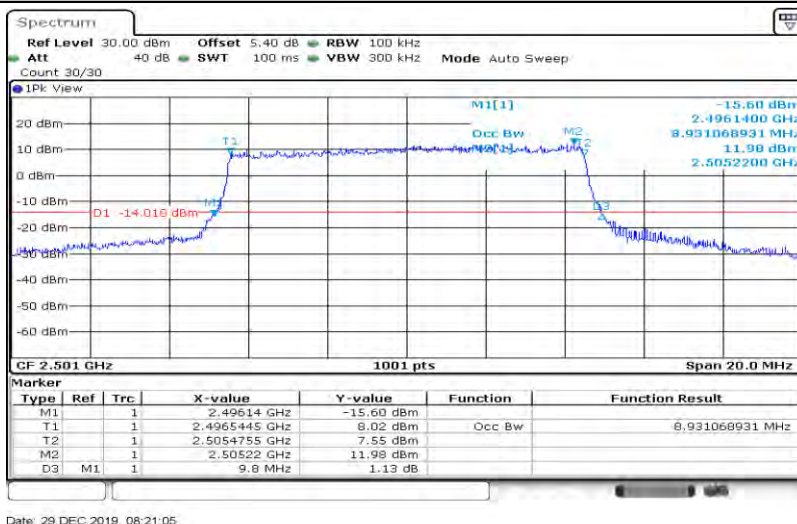


Band41-10MHz-16QAM-41540-50RB#0-8.931



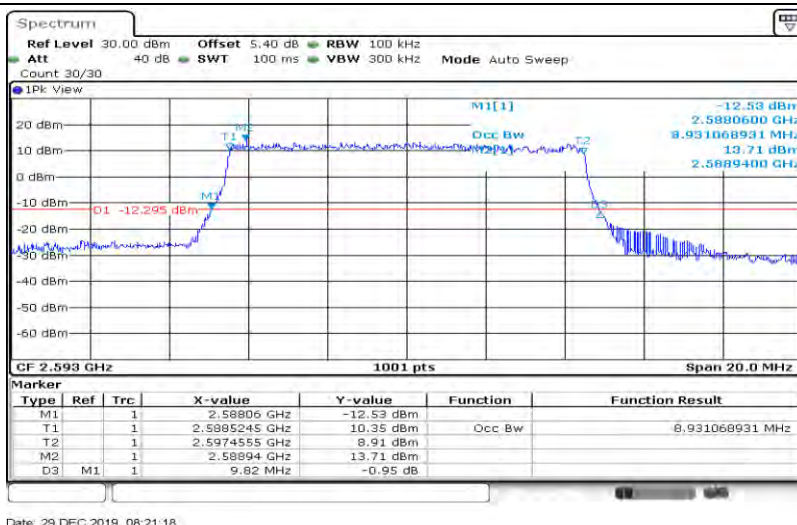


Band41-10MHz-64QAM-39700-50RB#0-8.931



Band41-10MHz-64QAM-40620-50RB#0-8.931



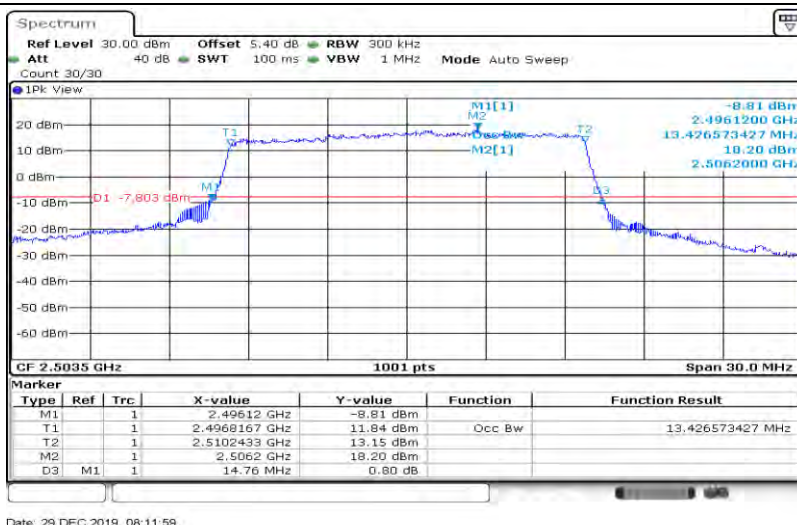


Band41-10MHz-64QAM-41540-50RB#0-8.931

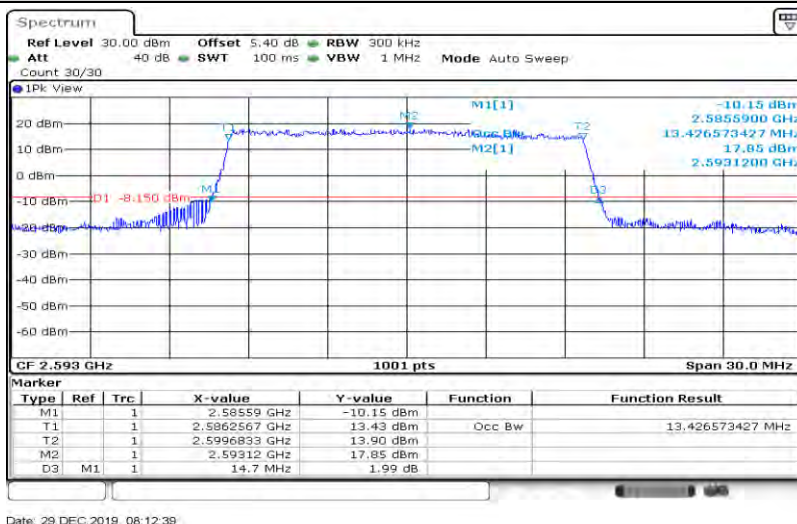


Band41-15MHz-QPSK-39725-75RB#0-13.427



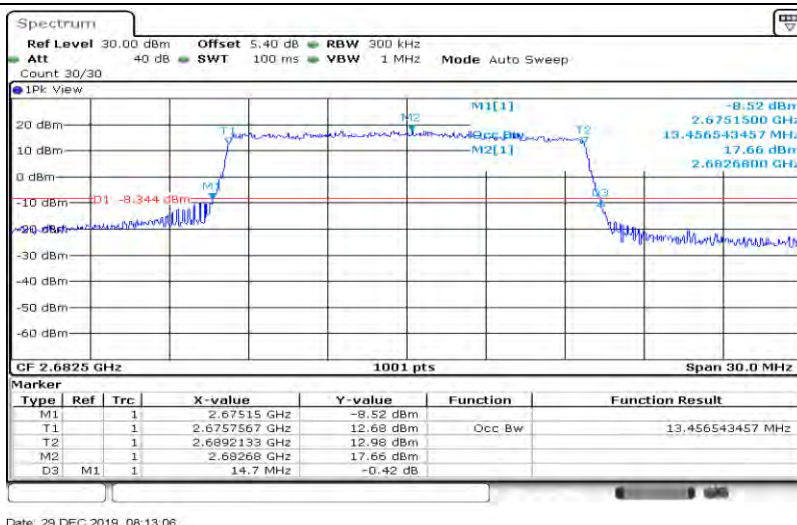


Band41-15MHz-QPSK-40620-75RB#0-13.427

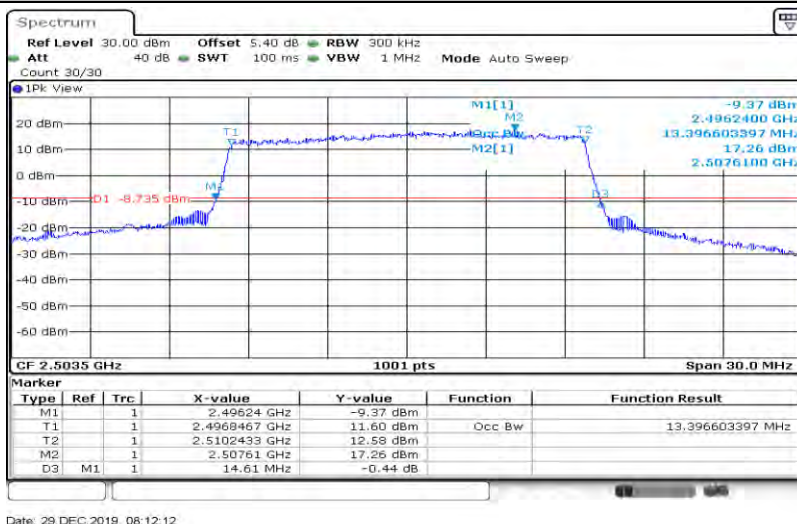


Band41-15MHz-QPSK-41515-75RB#0-13.457



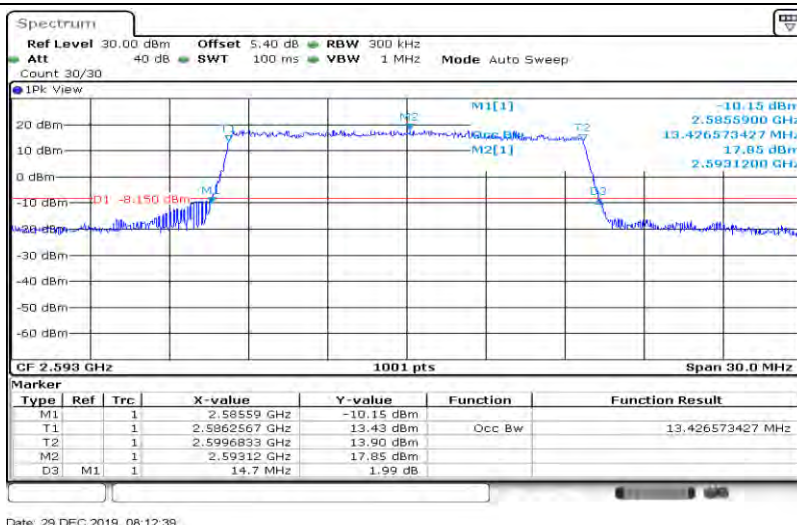


Band41-15MHz-16QAM-39725-75RB#0-13.397

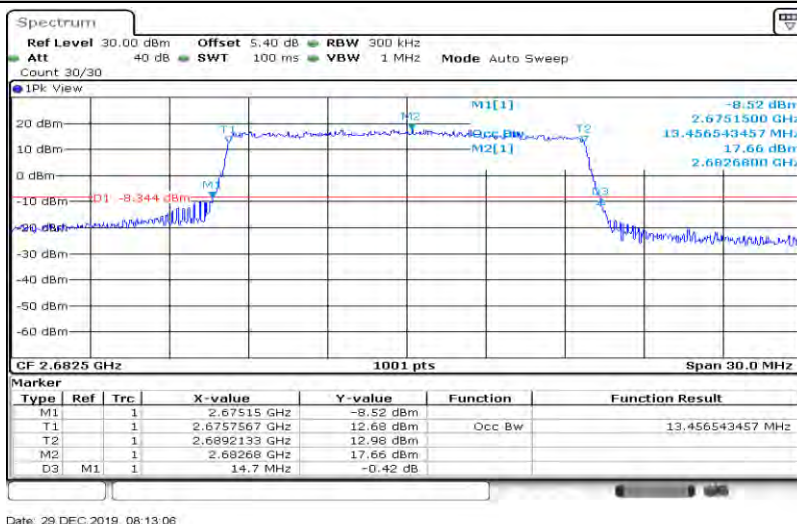


Band41-15MHz-16QAM-40620-75RB#0-13.427



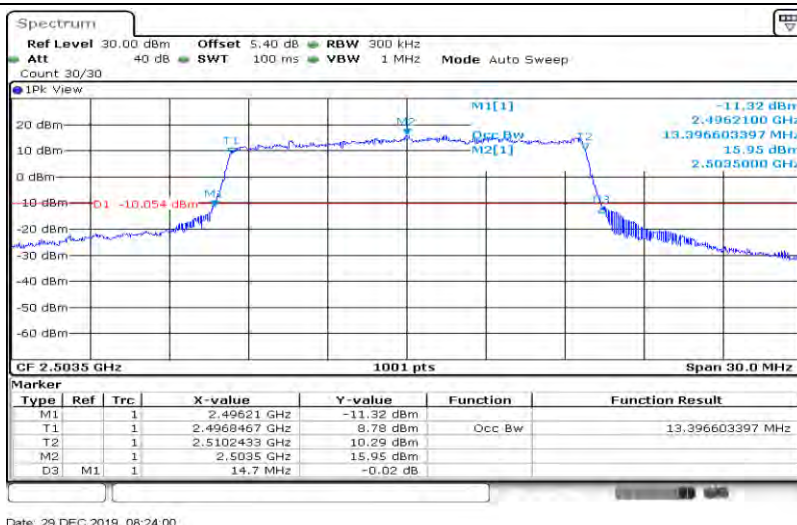


Band41-15MHz-16QAM-41515-75RB#0-13.457

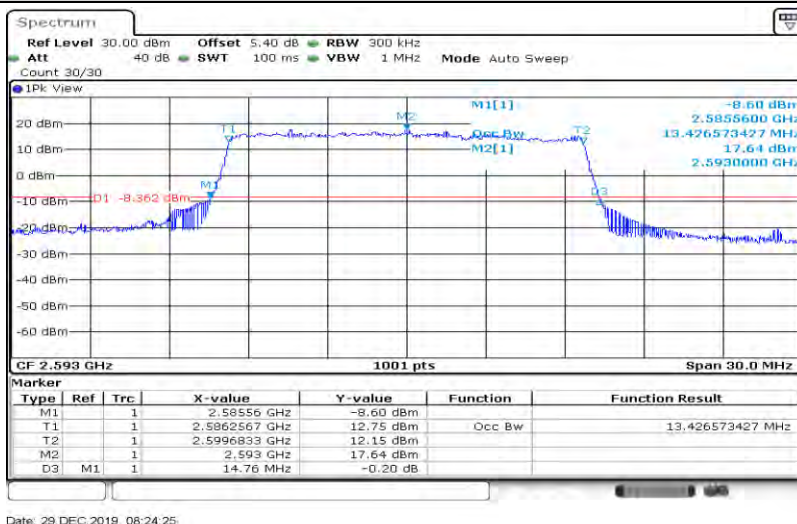


Band41-15MHz-64QAM-39725-75RB#0-13.397



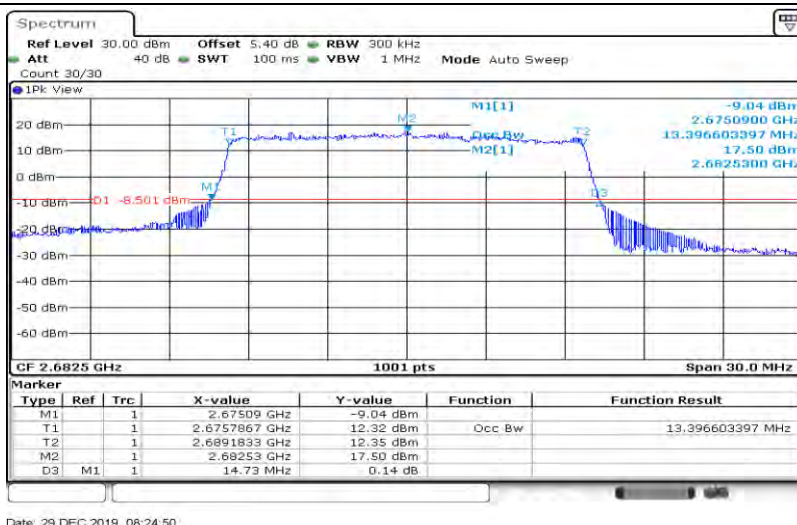


Band41-15MHz-64QAM-40620-75RB#0-13.427

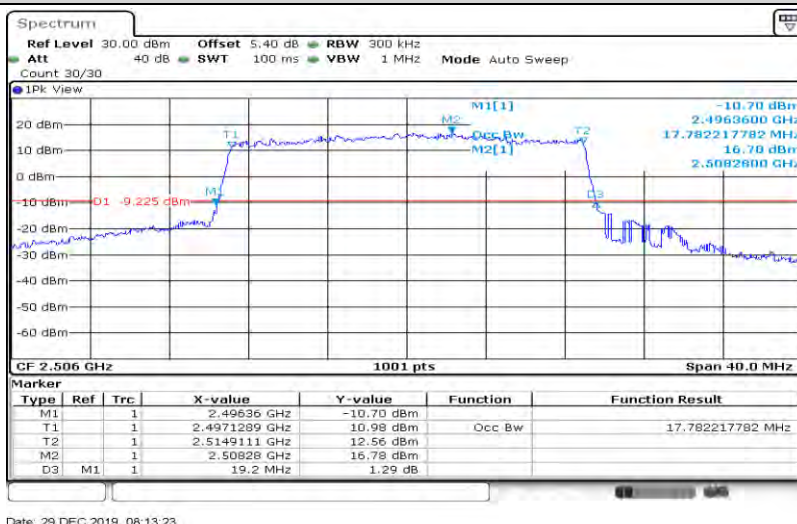


Band41-15MHz-64QAM-41515-75RB#0-13.397



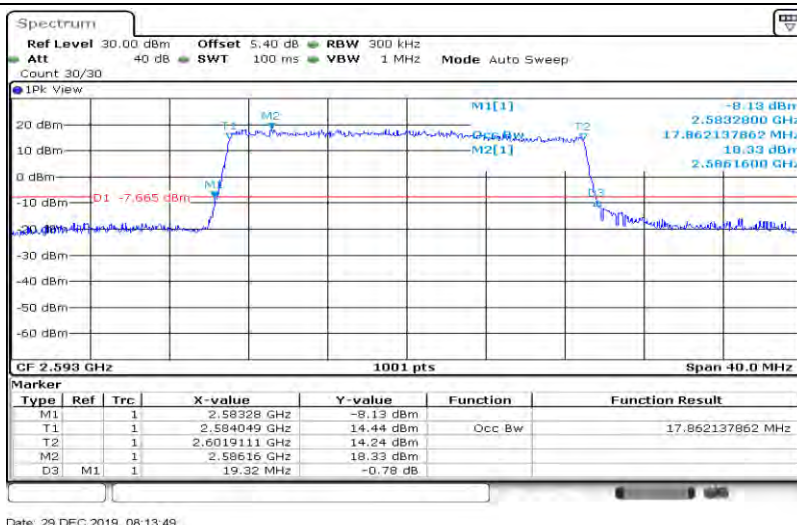


Band41-20MHz-QPSK-39750-100RB#0-17.782

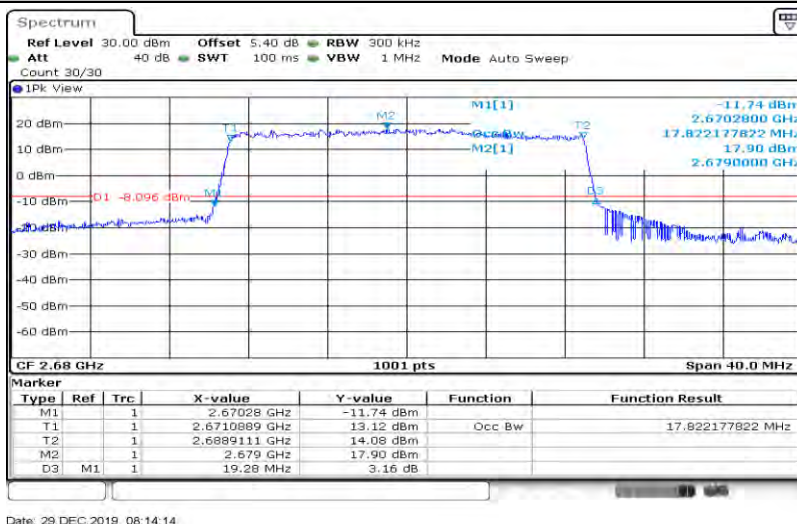


Band41-20MHz-QPSK-40620-100RB#0-17.862



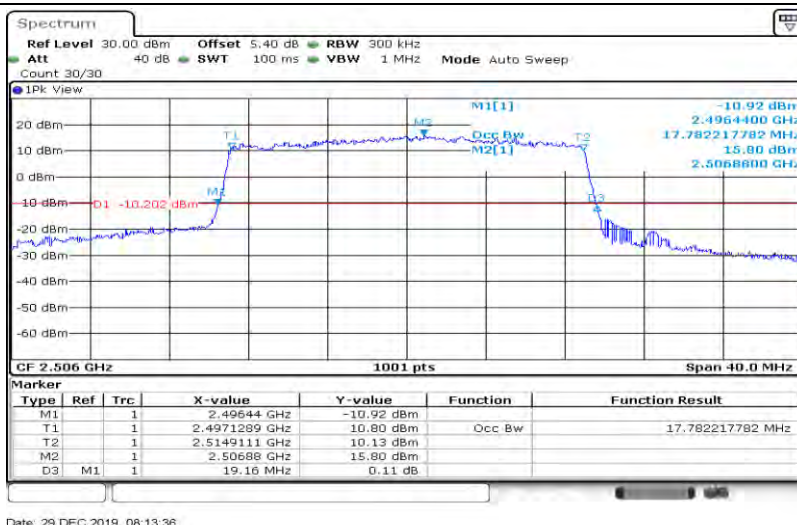


Band41-20MHz-QPSK-41490-100RB#0-17.822

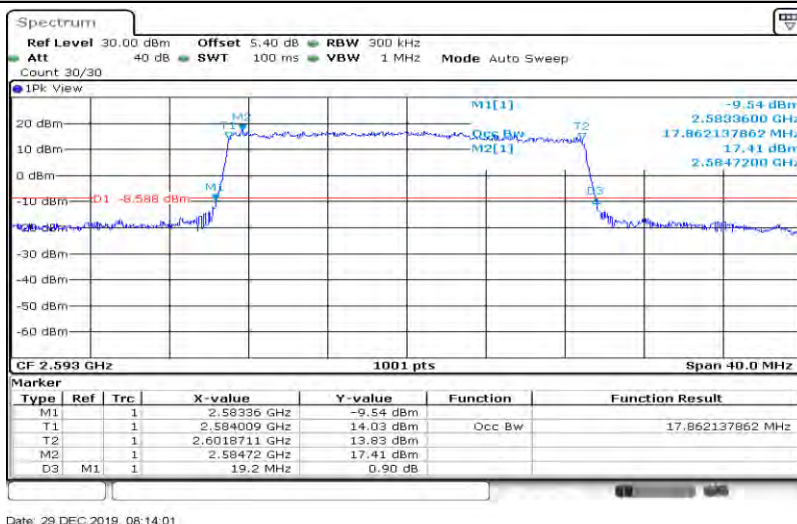


Band41-20MHz-16QAM-39750-100RB#0-17.782



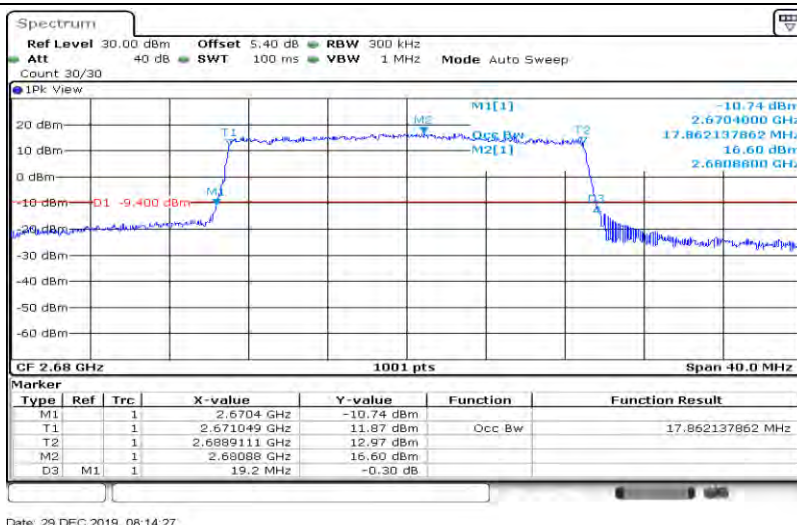


Band41-20MHz-16QAM-40620-100RB#0-17.862



Band41-20MHz-16QAM-41490-100RB#0-17.862



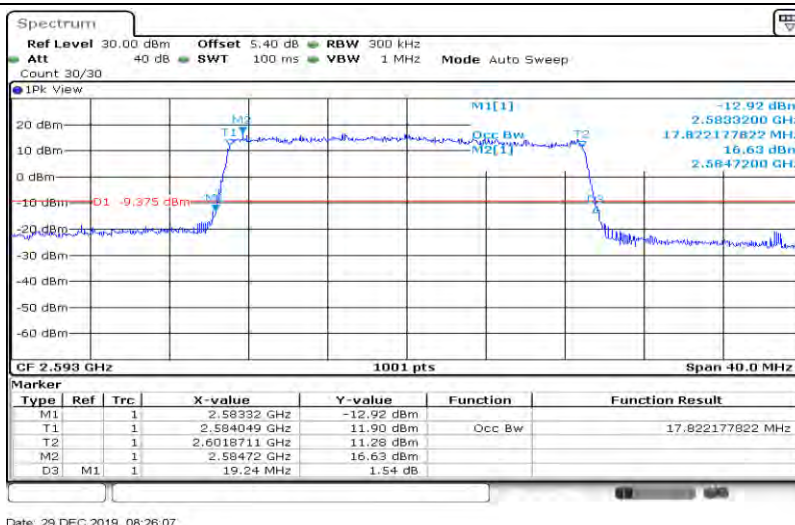


Band41-20MHz-64QAM-39750-100RB#0-17.742

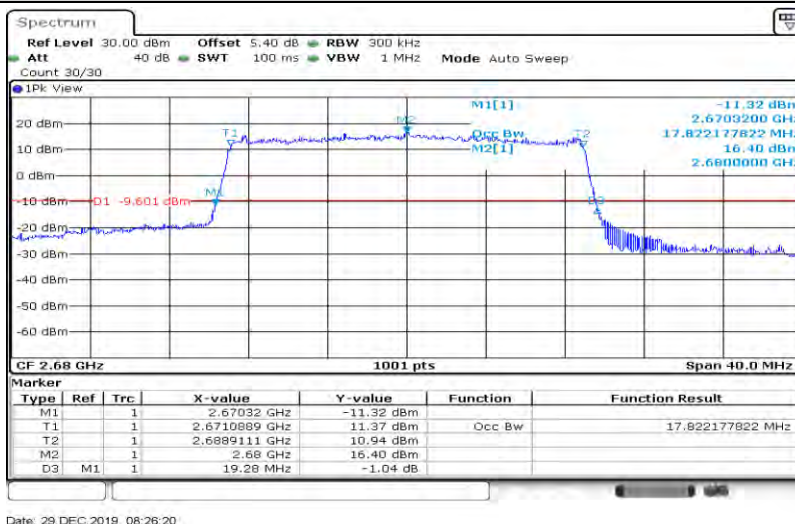


Band41-20MHz-64QAM-40620-100RB#0-17.822





Band41-20MHz-64QAM-41490-100RB#0-17.822

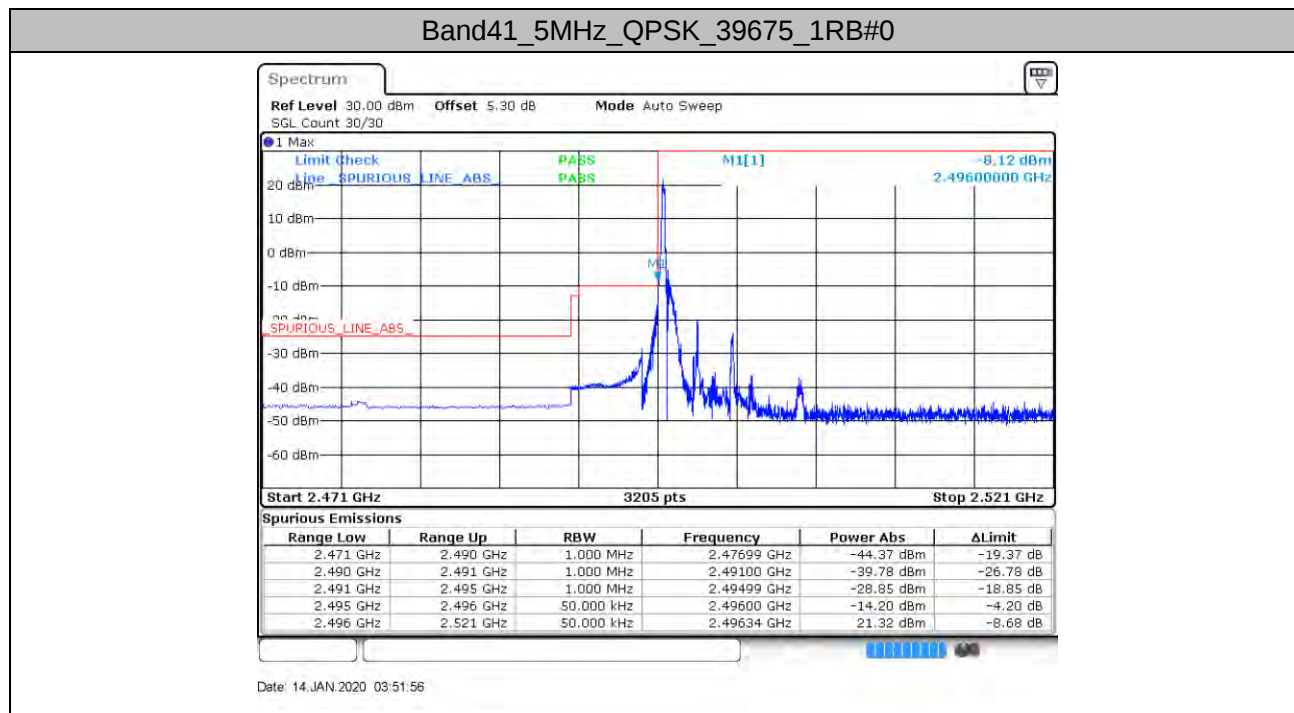


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

5. Band Edge Compliance

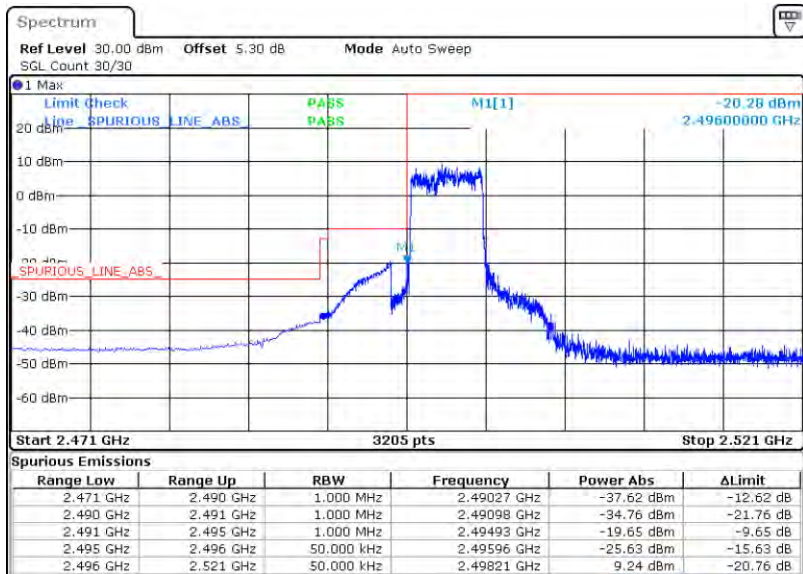
5.1. Test Plots



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

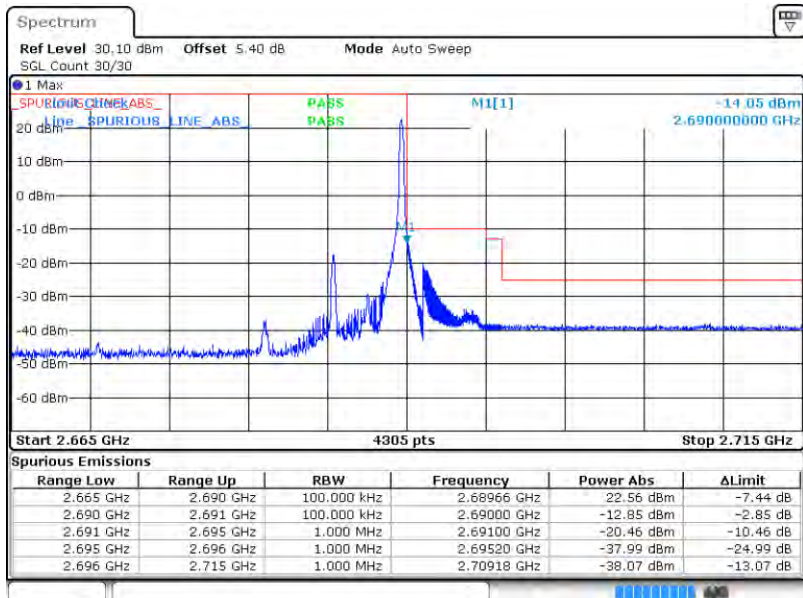
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn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

Band41_5MHz_QPSK_39675_25RB#0



Date: 14 JAN 2020 03:52:06

Band41_5MHz_QPSK_41565_1RB#24



Date: 14 JAN 2020 03:52:59

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

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

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

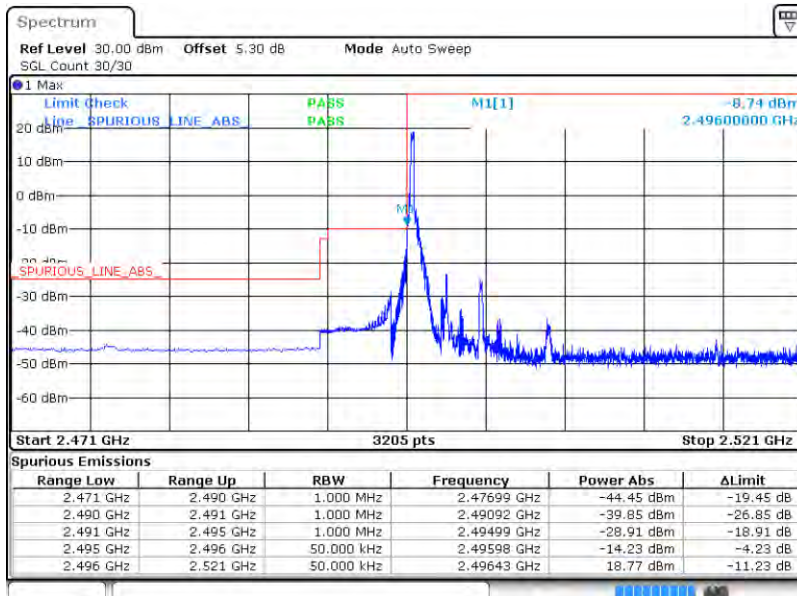
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band41_5MHz_QPSK_41565_25RB#0



Date: 14.JAN.2020 03:53:09

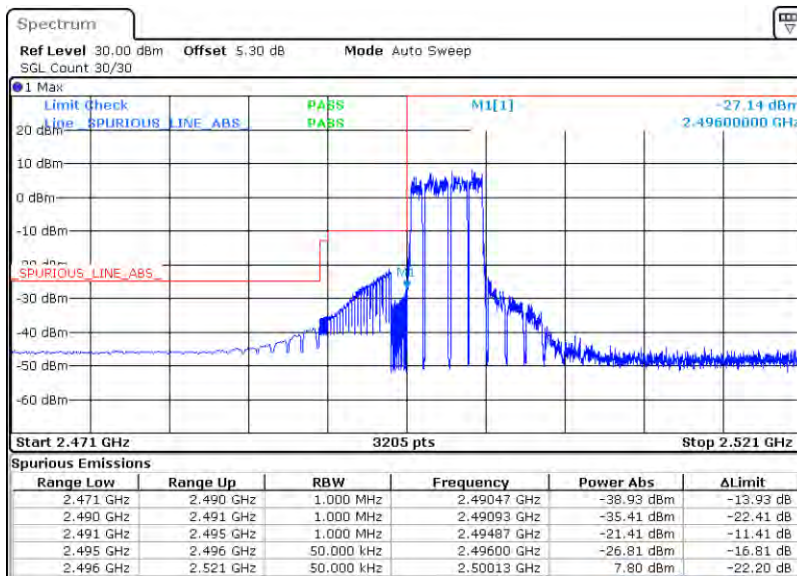
Band41_5MHz_64QAM_39675_1RB#0



Date: 14.JAN.2020 03:52:37

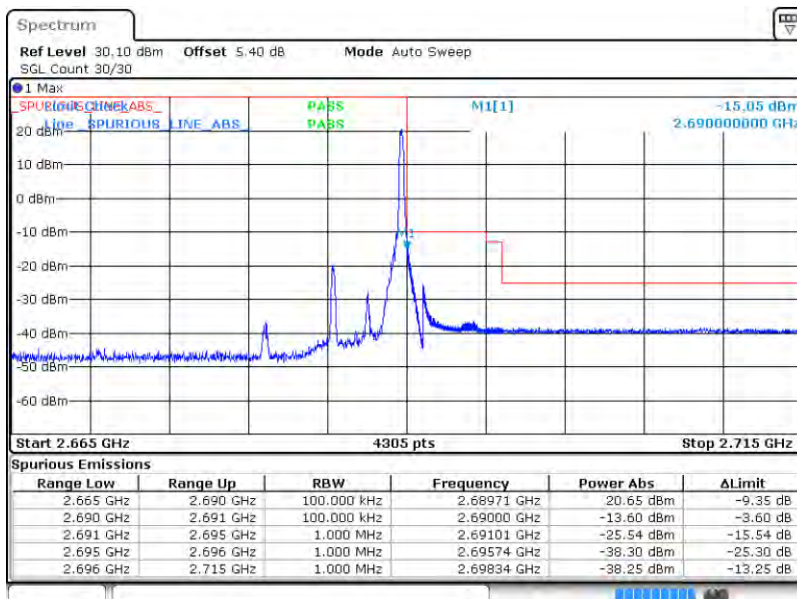


Band41_5MHz_64QAM_39675_25RB#0



Date: 14 JAN 2020 03:52:47

Band41_5MHz_64QAM_41565_1RB#24



Date: 14 JAN 2020 03:53:39

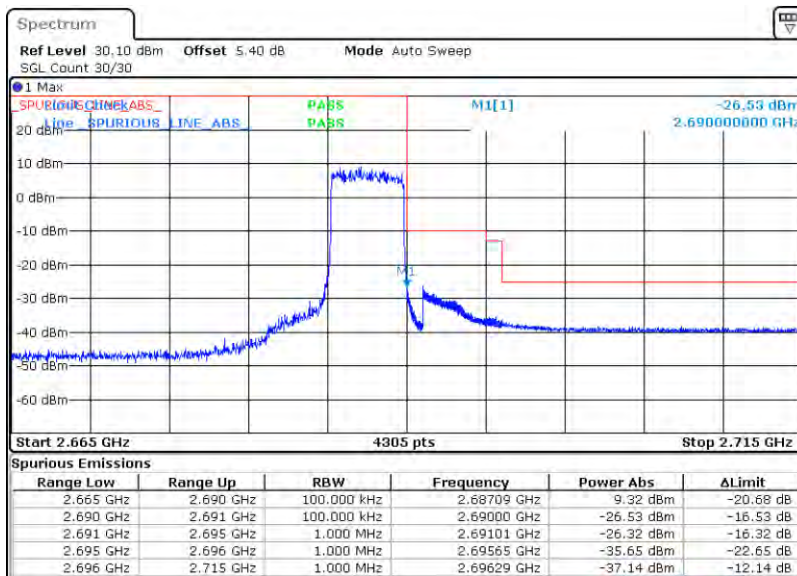
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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

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

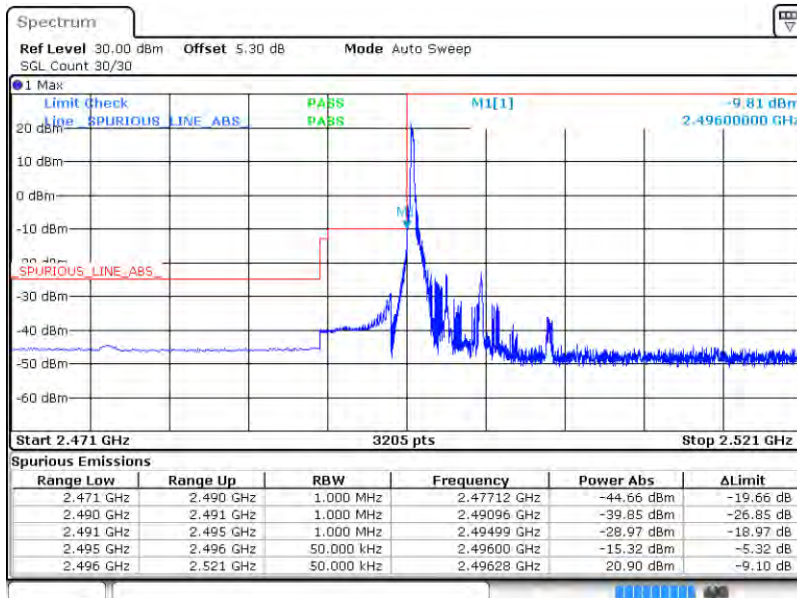
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band41_5MHz_64QAM_41565_25RB#0



Date: 14.JAN.2020 03:53:49

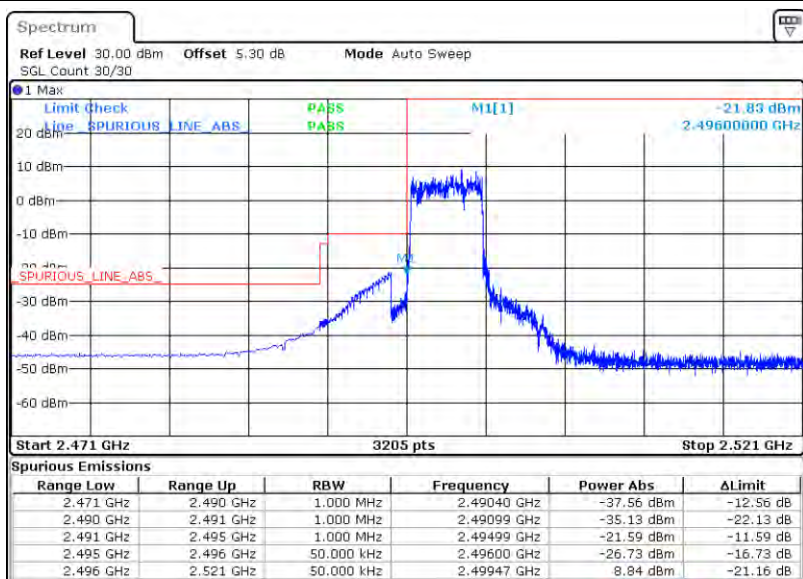
Band41_5MHz_16QAM_39675_1RB#0



Date: 14.JAN.2020 03:52:16

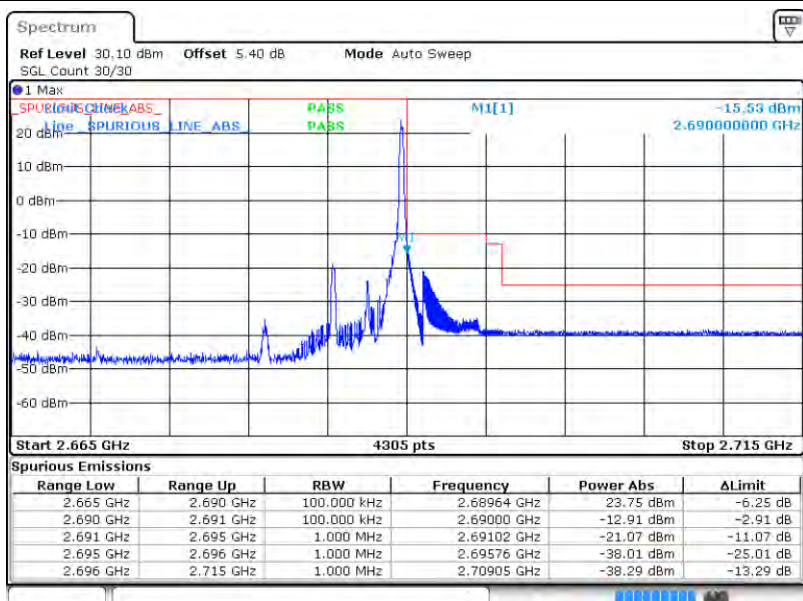


Band41	5MHz	16QAM	39675	25RB#0
--------	------	-------	-------	--------



Date: 14 JAN 2020 03:52:26

Band41	5MHz	16QAM	41565	1RB#24
--------	------	-------	-------	--------



Date: 14 JAN 2020 03:53:19



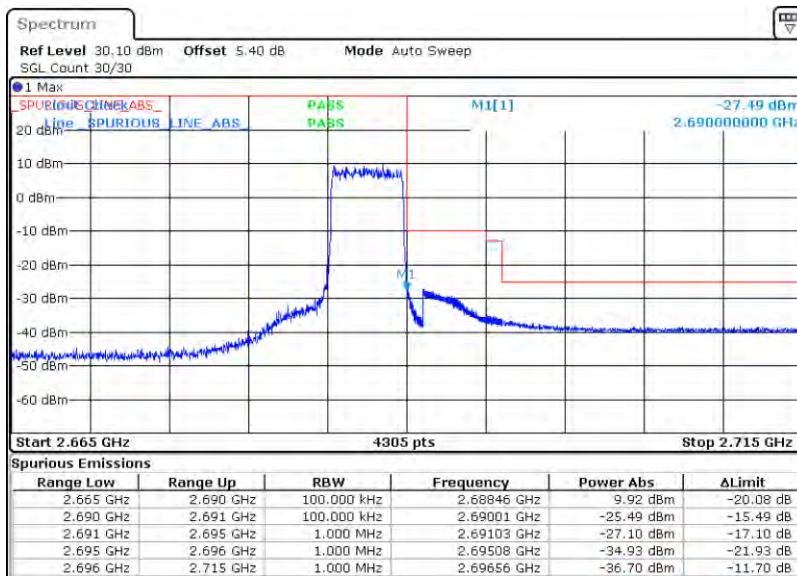
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (South China) SCS Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions for Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> 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 notified that alteration, tampering or removal of the Company's analysis and/or findings may be subject to intervention and/or action within the limits of the Client's instructions. Any Client assumes sole responsibility to its client and this document does not concern any party to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is strictly prohibited and may result in severe civil or criminal penalties, damages and/or other legal actions. 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@sqs.com

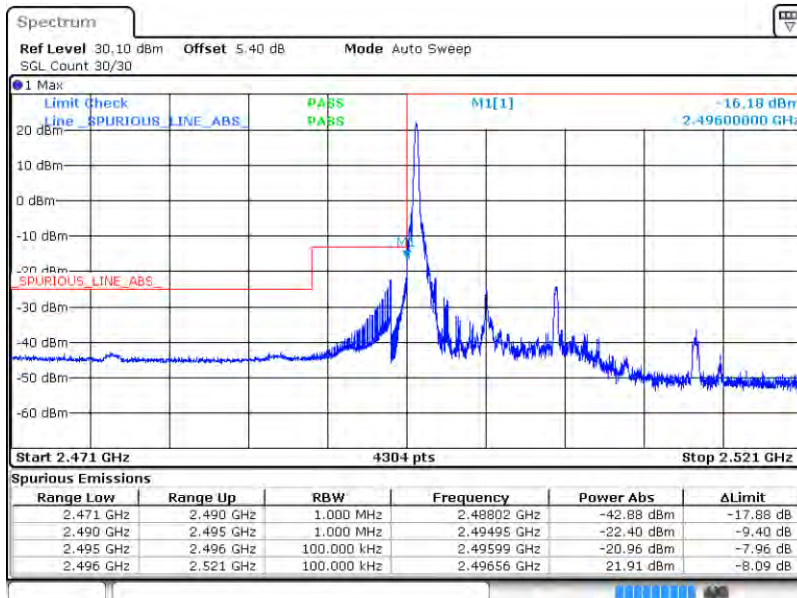
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sqsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sqs.china@sqs.com

Band41_5MHz_16QAM_41565_25RB#0



Date: 14.JAN.2020 03:53:29

Band41_10MHz_QPSK_39700_1RB#0



Date: 14.JAN.2020 03:54:00

Band41_10MHz_QPSK_39700_50RB#0

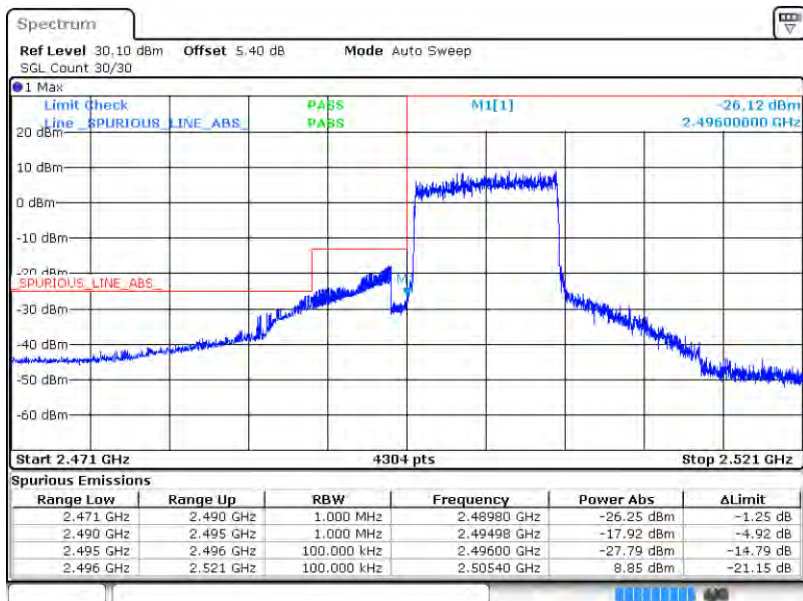


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

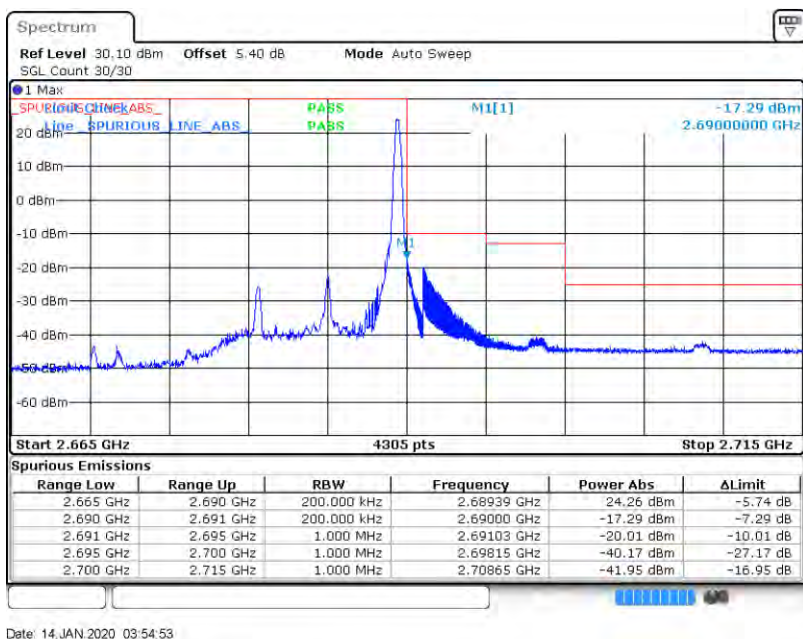
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

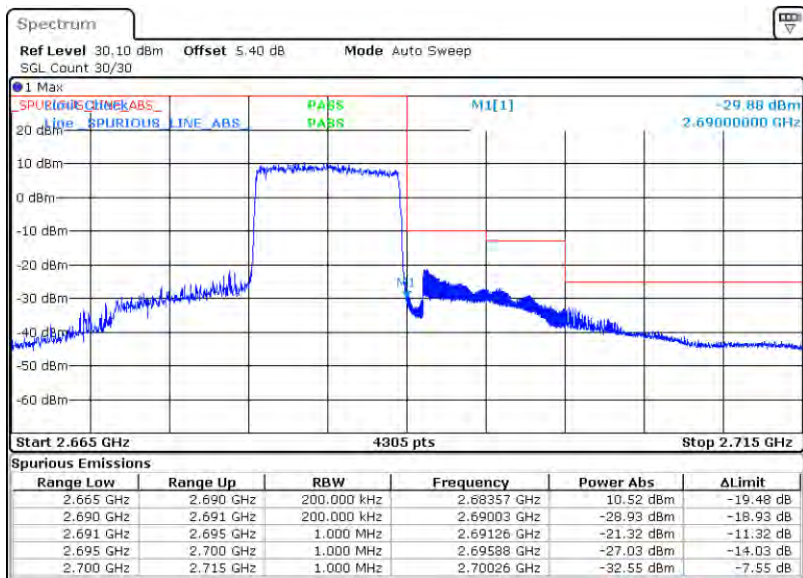
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band41_10MHz_QPSK_41540_1RB#49

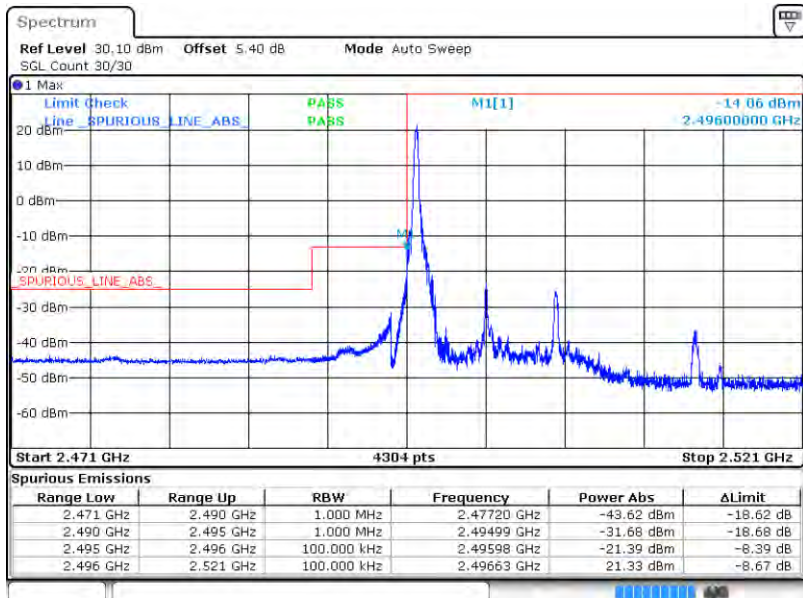


Band41_10MHz_QPSK_41540_50RB#0



Date: 14.JAN.2020 03:55:03

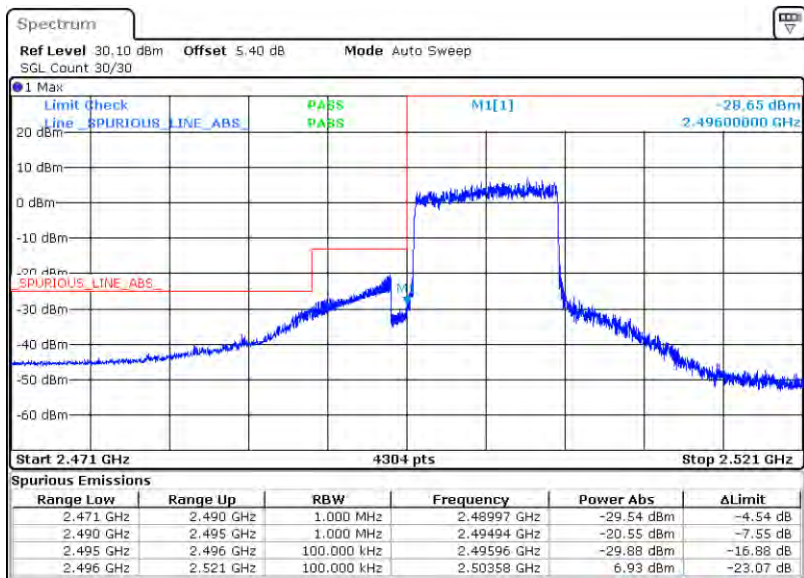
Band41_10MHz_64QAM_39700_1RB#0



Date: 14.JAN.2020 03:54:34

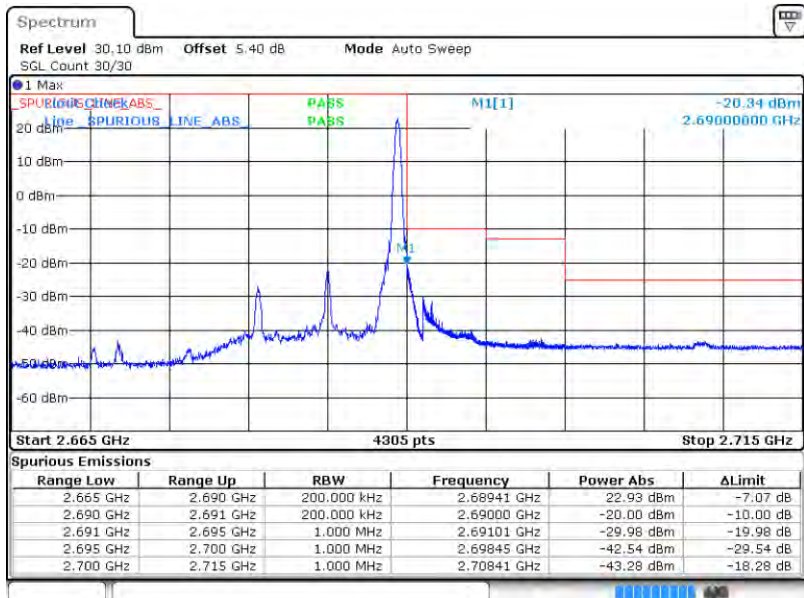


Band41_10MHz_64QAM_39700_50RB#0



Date: 14 JAN 2020 03:54:42

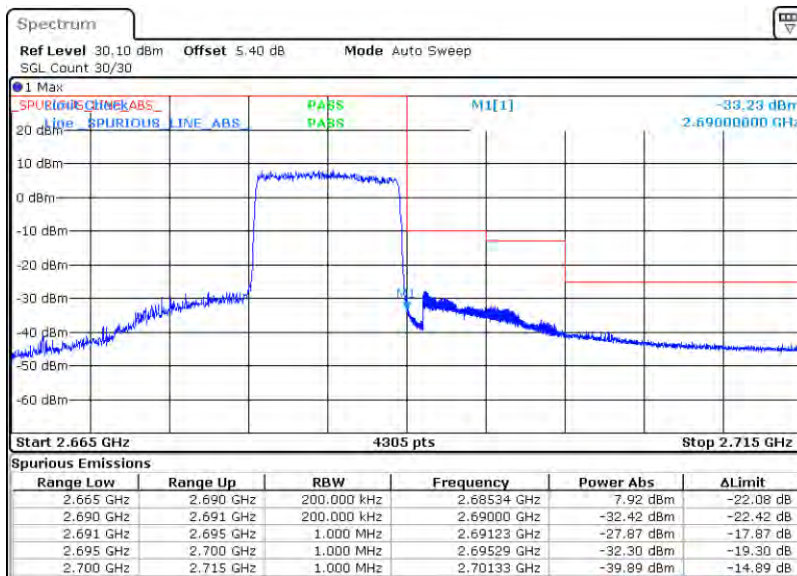
Band41_10MHz_64QAM_41540_1RB#49



Date: 14 JAN 2020 03:55:34

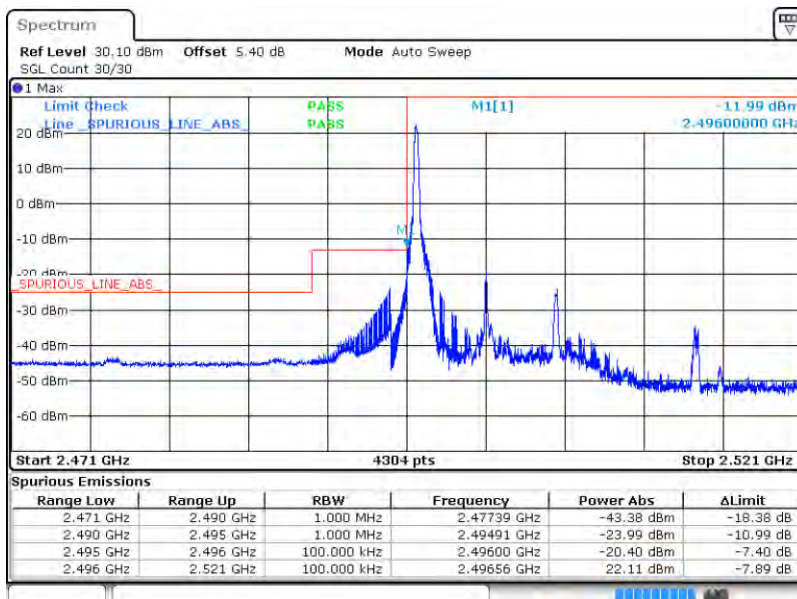


Band41_10MHz_64QAM_41540_50RB#0



Date: 14.JAN.2020 03:55:44

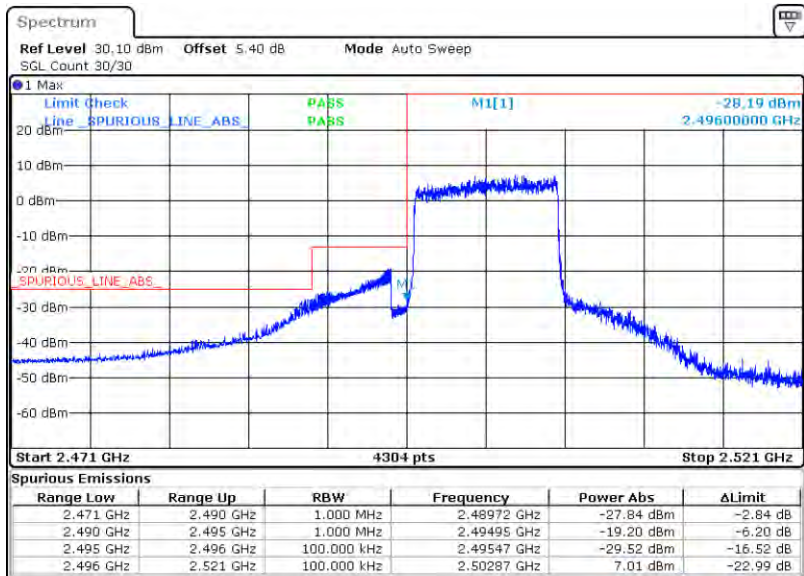
Band41_10MHz_16QAM_39700_1RB#0



Date: 14.JAN.2020 03:54:17

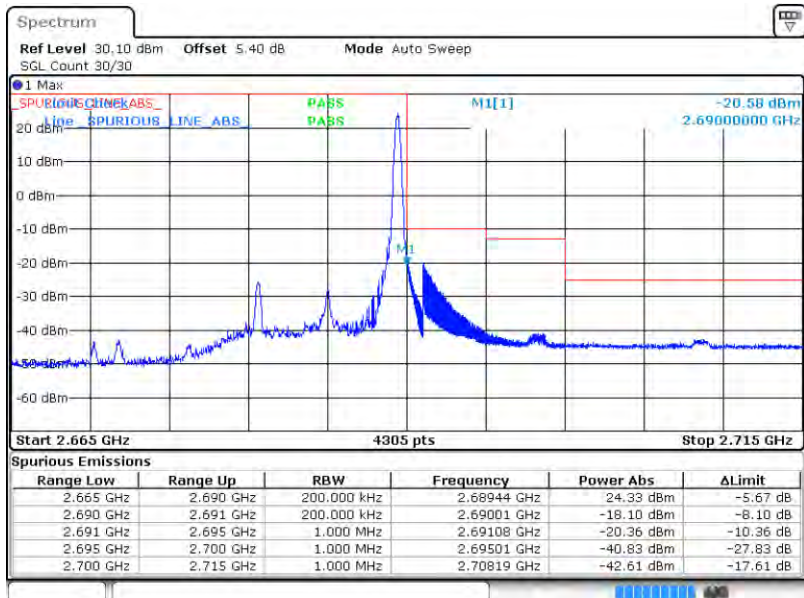


Band41_10MHz_16QAM_39700_50RB#0



Date: 14 JAN 2020 03:54:25

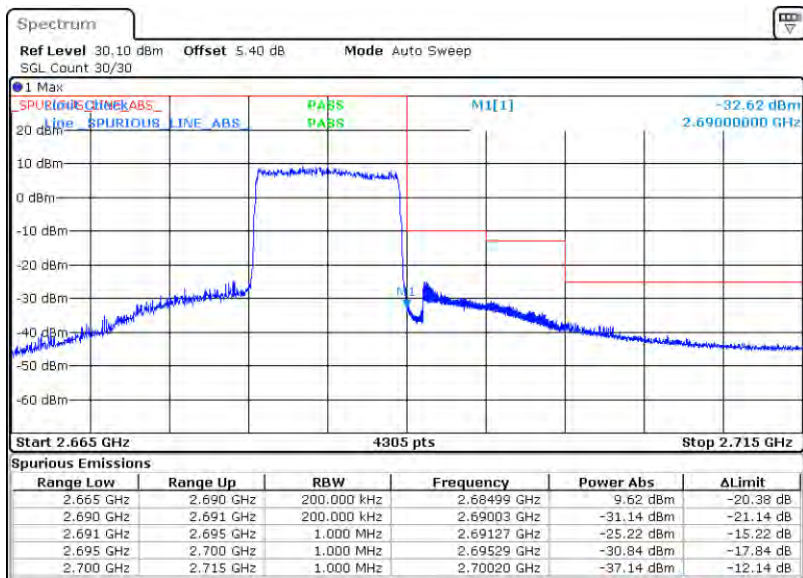
Band41_10MHz_16QAM_41540_1RB#49



Date: 14 JAN 2020 03:55:14

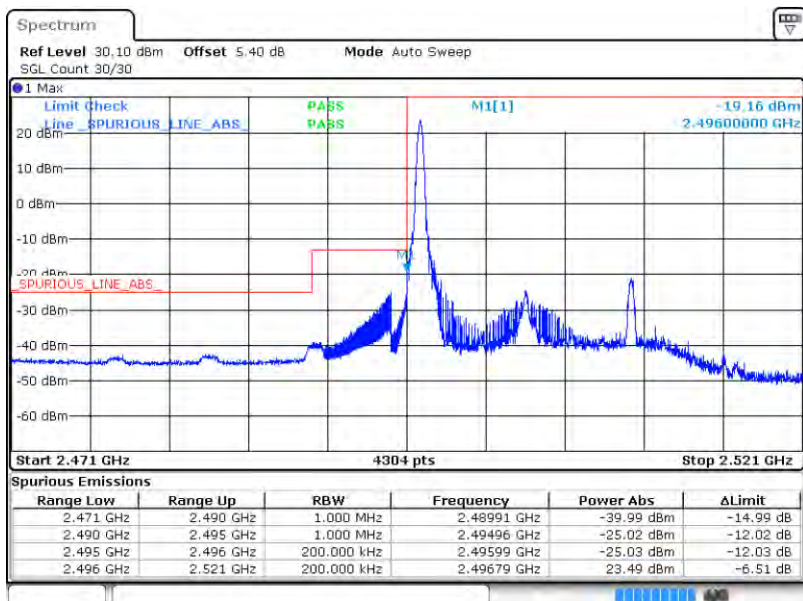


Band41_10MHz_16QAM_41540_50RB#0



Date: 14.JAN.2020 03:55:24

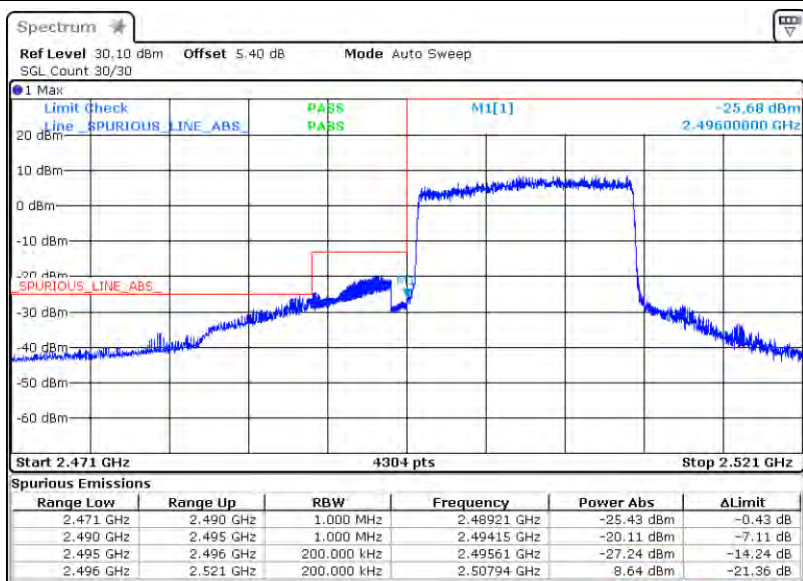
Band41_15MHz_QPSK_39725_1RB#0



Date: 14.JAN.2020 03:55:55

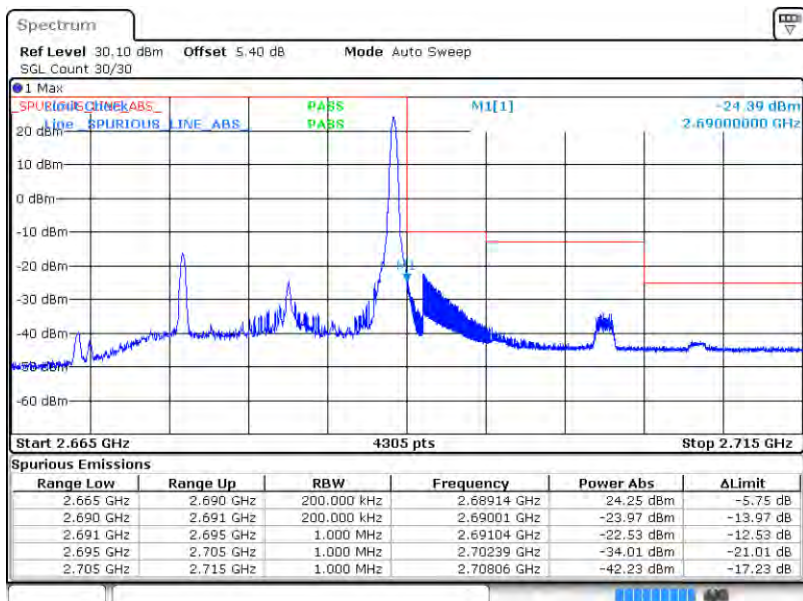


Band41_15MHz_QPSK_39725_75RB#0



Date: 14.JAN.2020 05:41:14

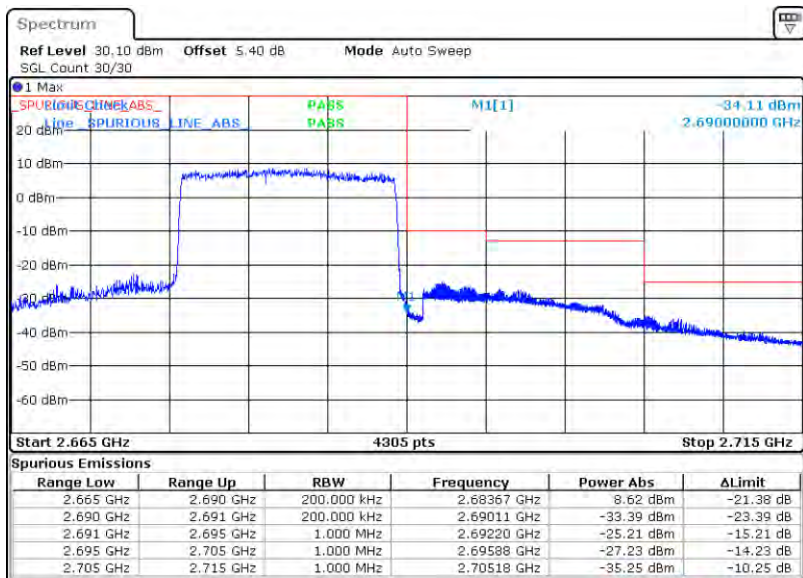
Band41_15MHz_QPSK_41515_1RB#74



Date: 14.JAN.2020 03:56:48

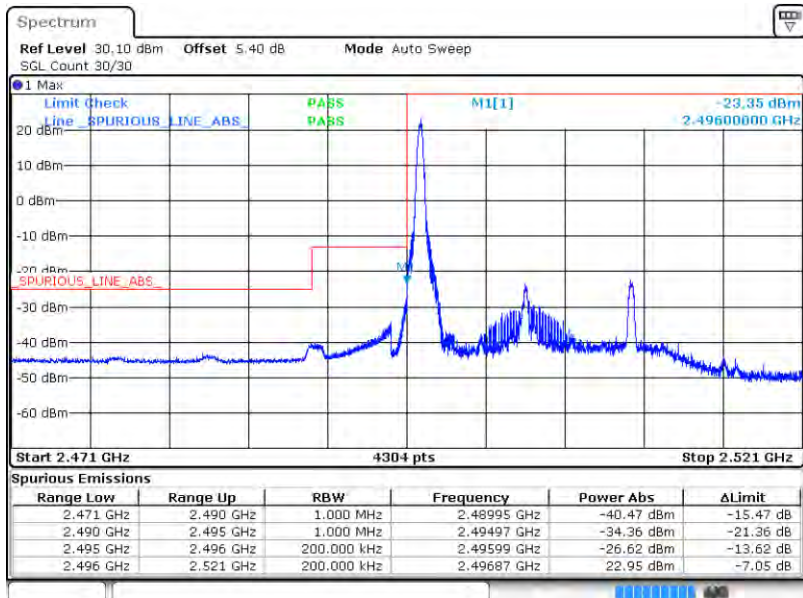


Band41_15MHz_QPSK_41515_75RB#0



Date: 14.JAN.2020 03:56:58

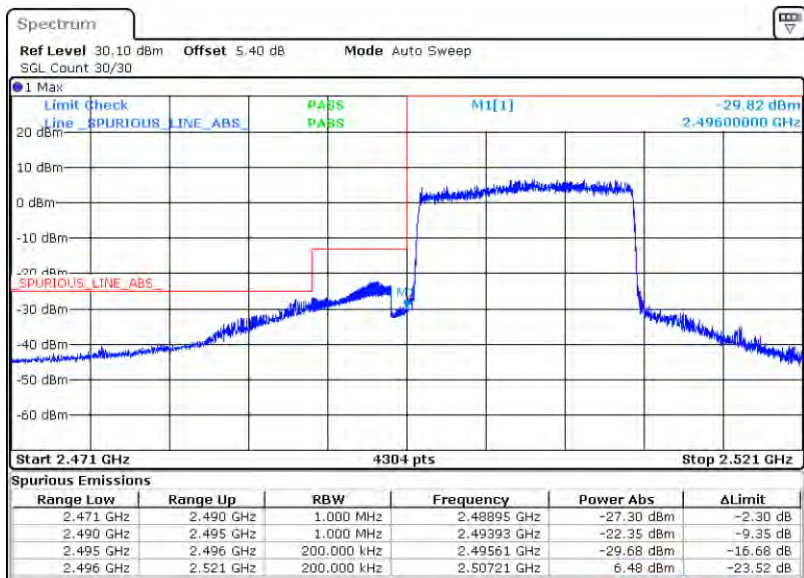
Band41_15MHz_64QAM_39725_1RB#0



Date: 14.JAN.2020 03:56:28

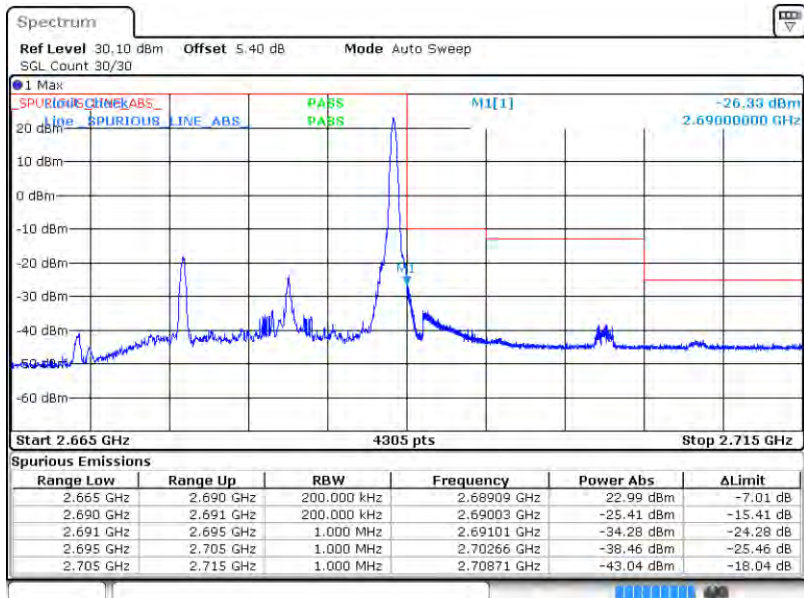


Band41_15MHz_64QAM_39725_75RB#0



Date: 14.JAN.2020 03:56:37

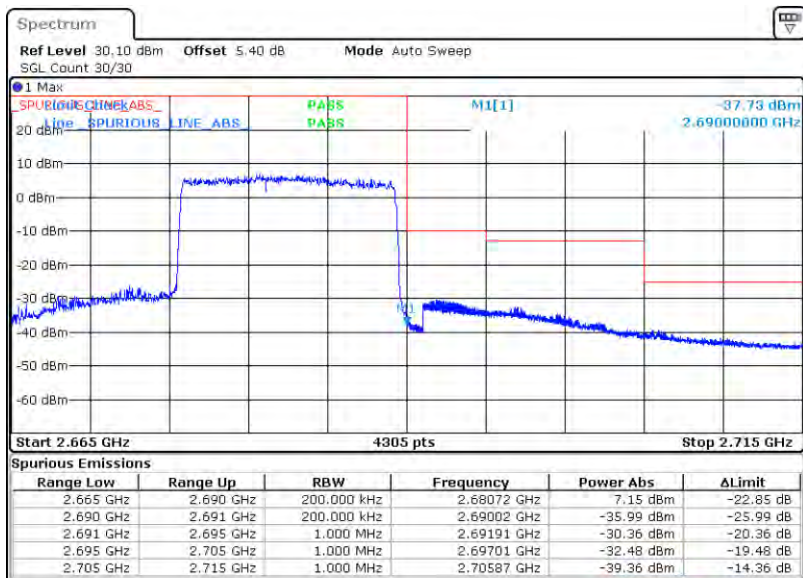
Band41_15MHz_64QAM_41515_1RB#74



Date: 14.JAN.2020 03:57:28

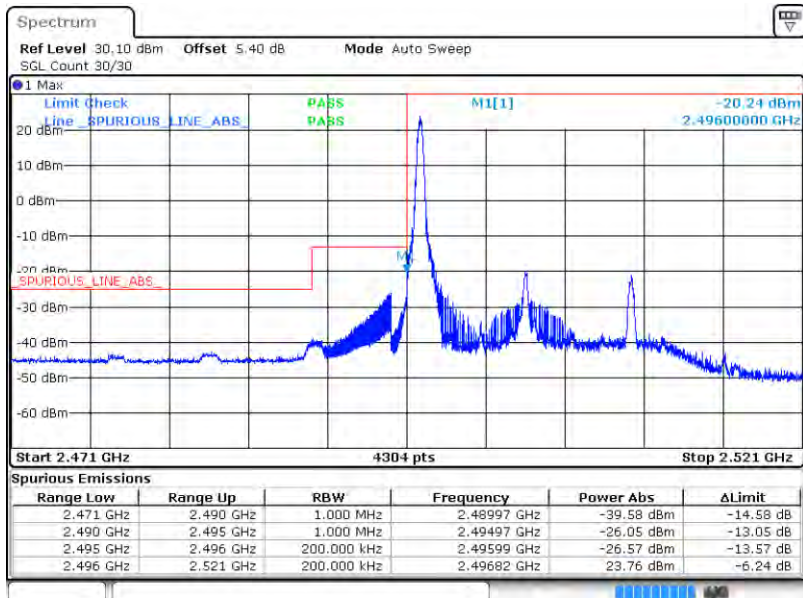


Band41_15MHz_64QAM_41515_75RB#0



Date: 14.JAN.2020 03:57:38

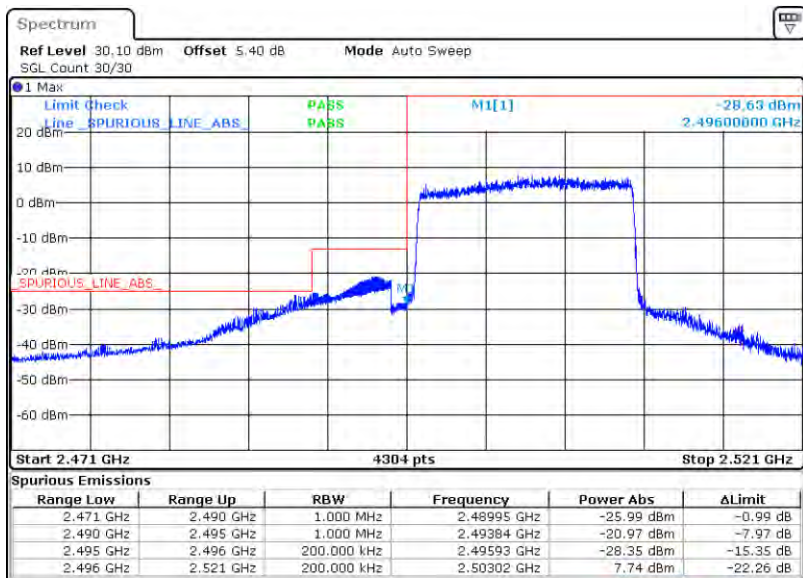
Band41_15MHz_16QAM_39725_1RB#0



Date: 14.JAN.2020 03:56:12

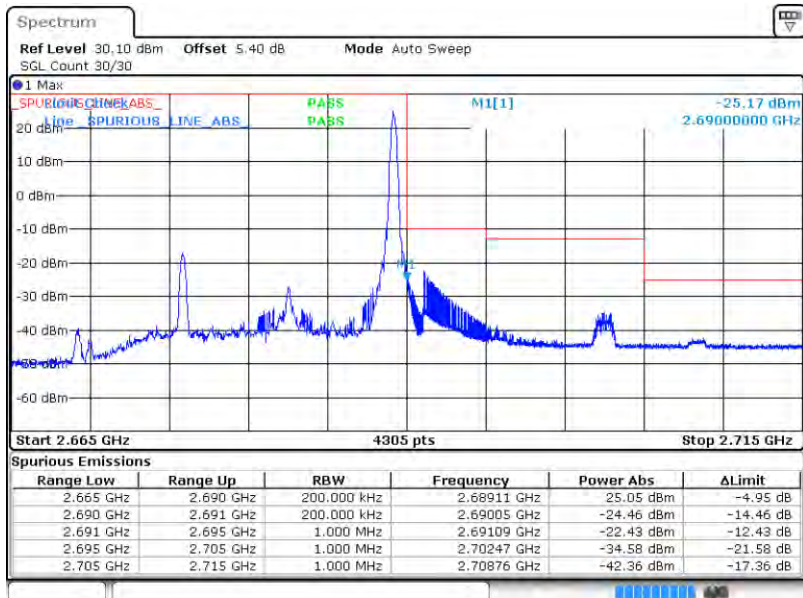


Band41_15MHz_16QAM_39725_75RB#0



Date: 14 JAN 2020 03:56:20

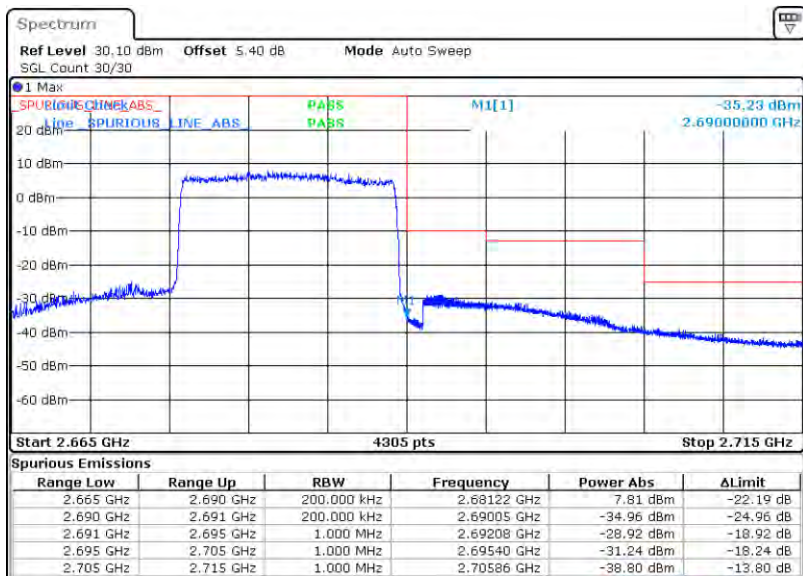
Band41_15MHz_16QAM_41515_1RB#74



Date: 14 JAN 2020 03:57:08

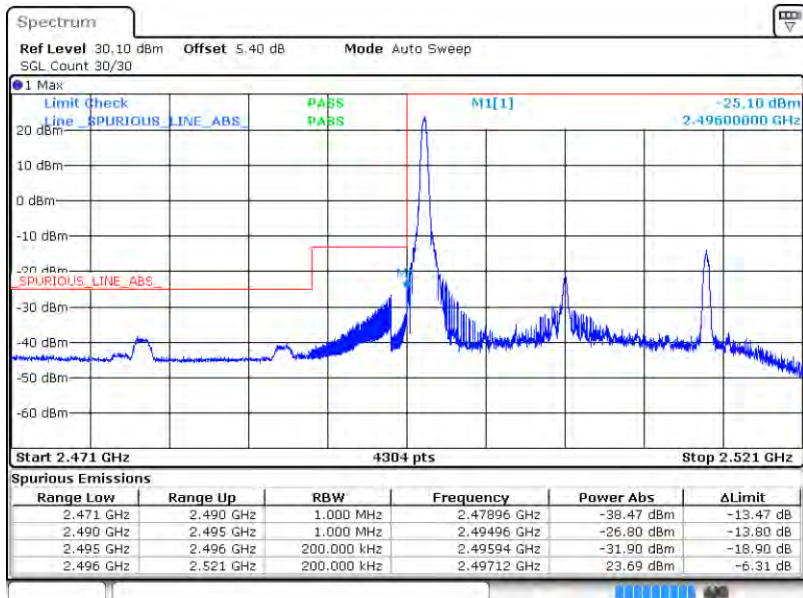


Band41_15MHz_16QAM_41515_75RB#0



Date: 14.JAN.2020 03:57:18

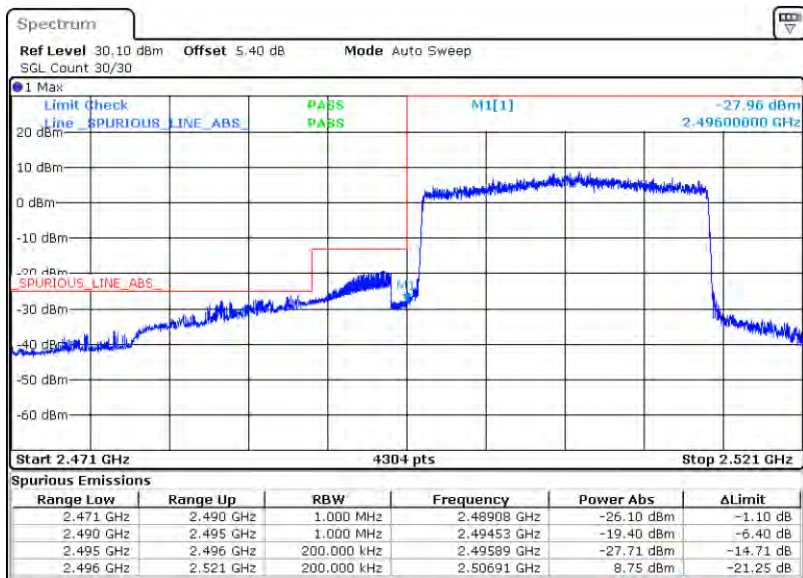
Band41_20MHz_QPSK_39750_1RB#0



Date: 14.JAN.2020 03:57:49

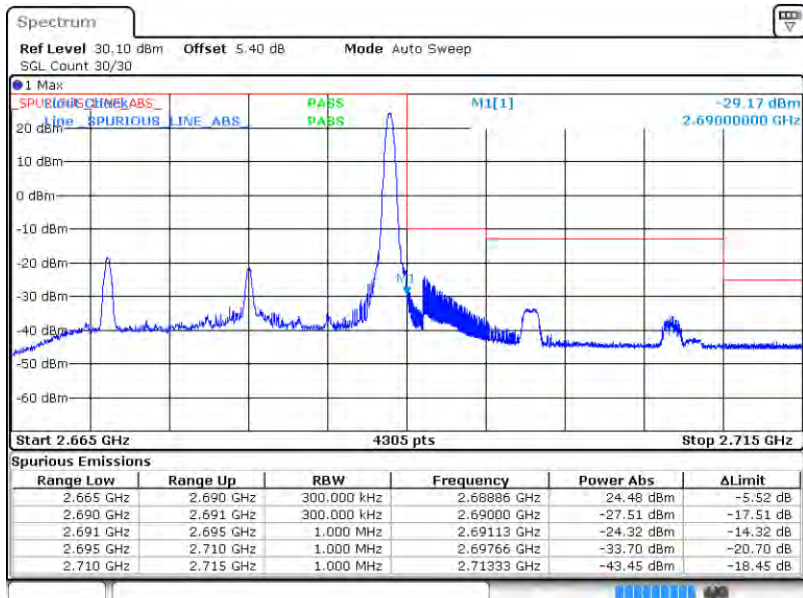


Band41_20MHz_QPSK_39750_100RB#0



Date: 14.JAN.2020 03:57:57

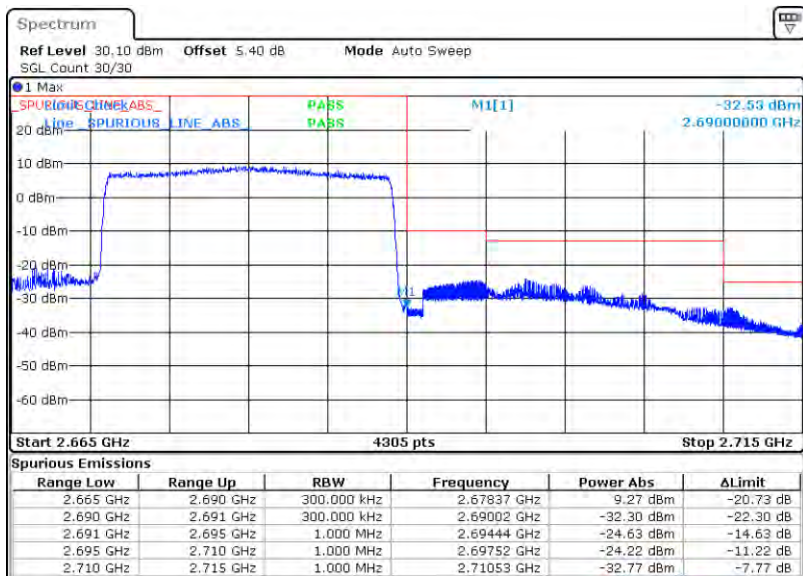
Band41_20MHz_QPSK_41490_1RB#99



Date: 14.JAN.2020 03:58:42

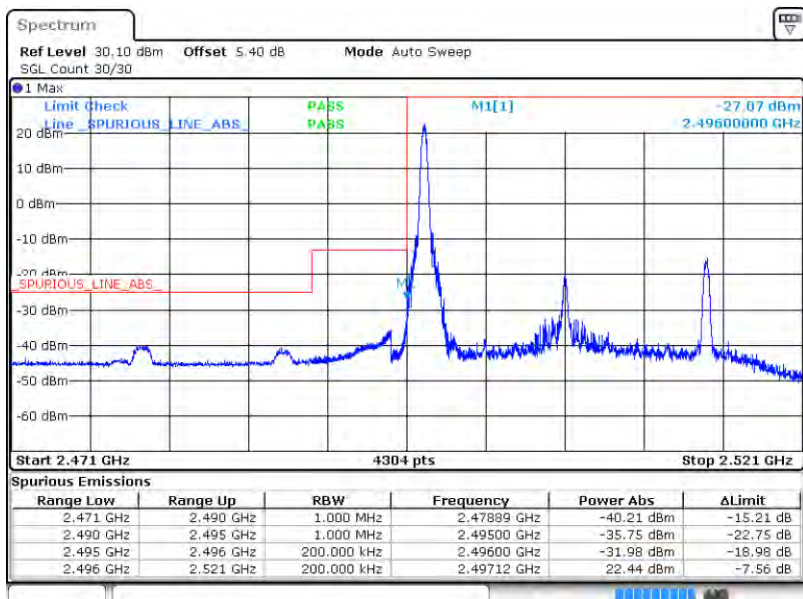


Band41_20MHz_QPSK_41490_100RB#0



Date: 14.JAN.2020 03:58:52

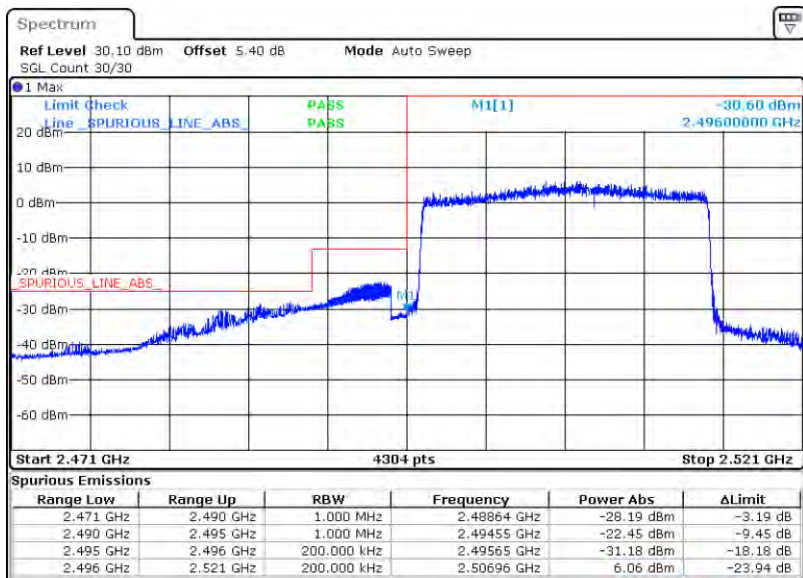
Band41_20MHz_64QAM_39750_1RB#0



Date: 14.JAN.2020 03:58:22

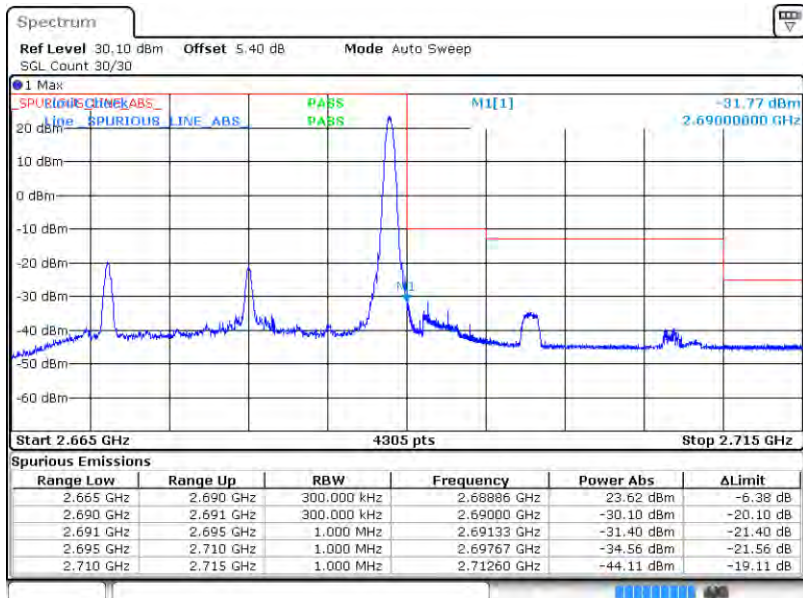


Band41_20MHz_64QAM_39750_100RB#0



Date: 14 JAN 2020 03:58:31

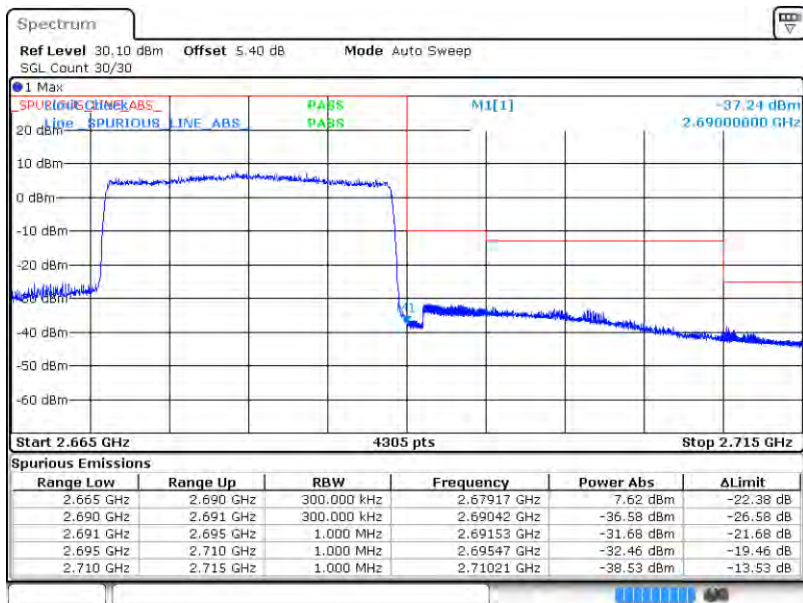
Band41_20MHz_64QAM_41490_1RB#99



Date: 14 JAN 2020 03:59:22

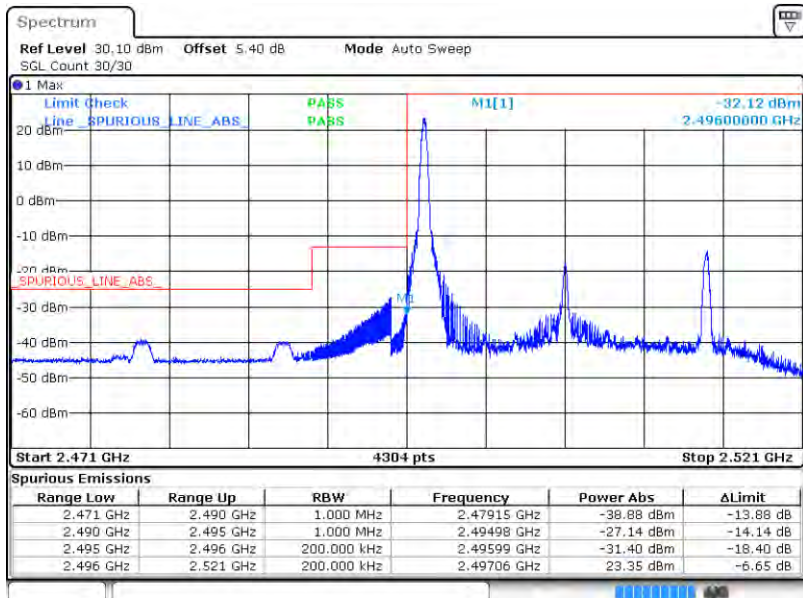


Band41_20MHz_64QAM_41490_100RB#0



Date: 14.JAN.2020 03:59:32

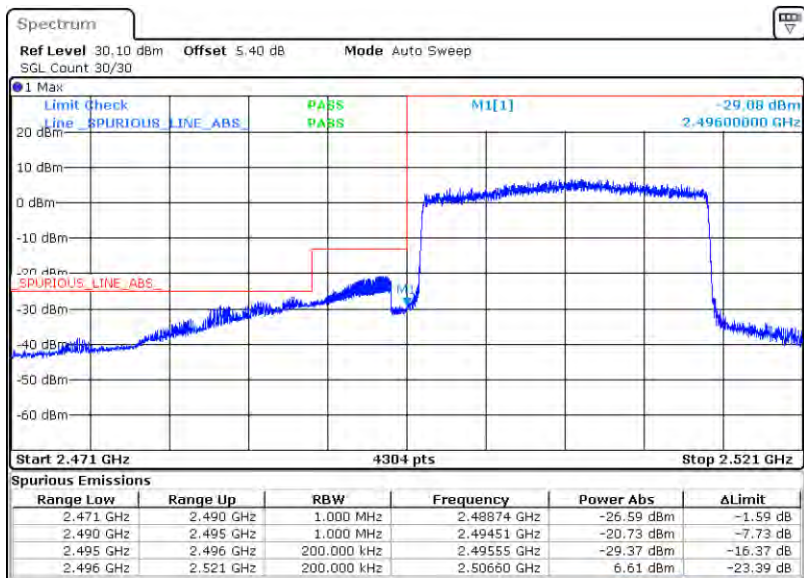
Band41_20MHz_16QAM_39750_1RB#0



Date: 14.JAN.2020 03:58:06

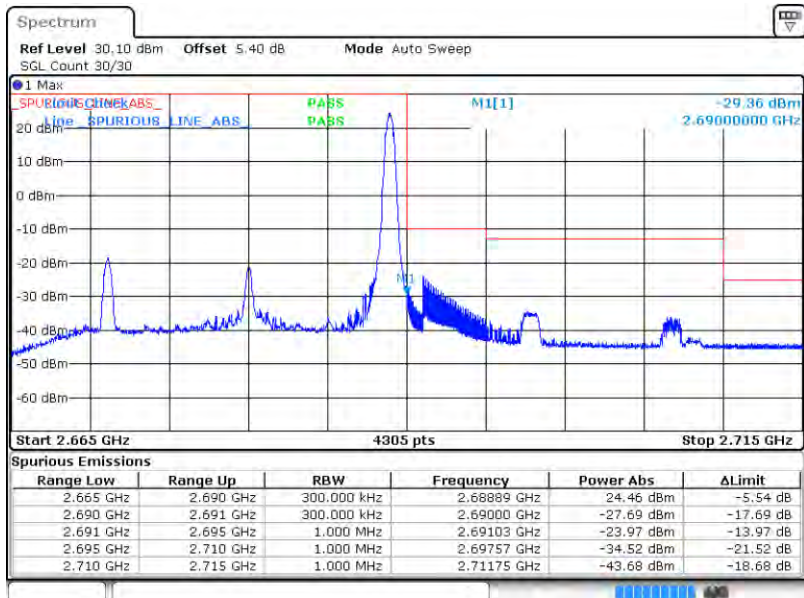


Band41_20MHz_16QAM_39750_100RB#0



Date: 14 JAN 2020 03:58:14

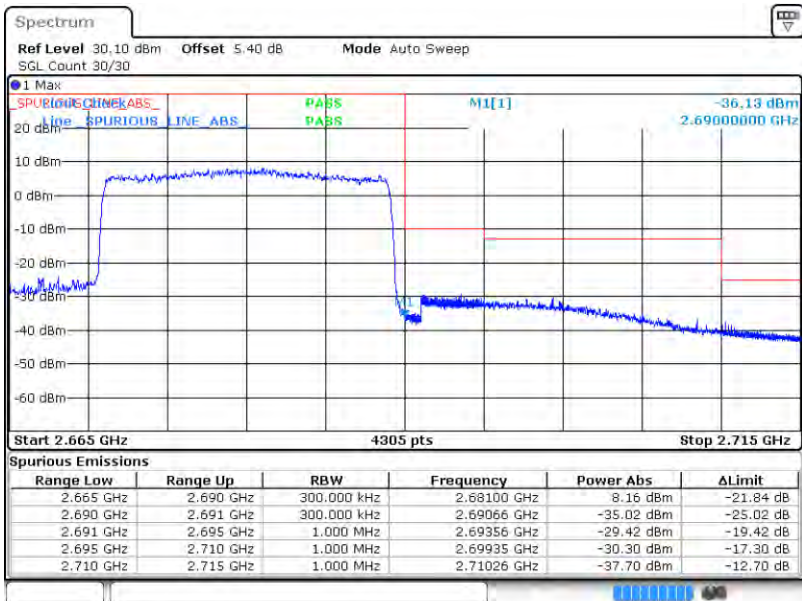
Band41_20MHz_16QAM_41490_1RB#99



Date: 14 JAN 2020 03:59:02



Band41_20MHz_16QAM_41490_100RB#0



Date: 14.JAN.2020 03:59:12





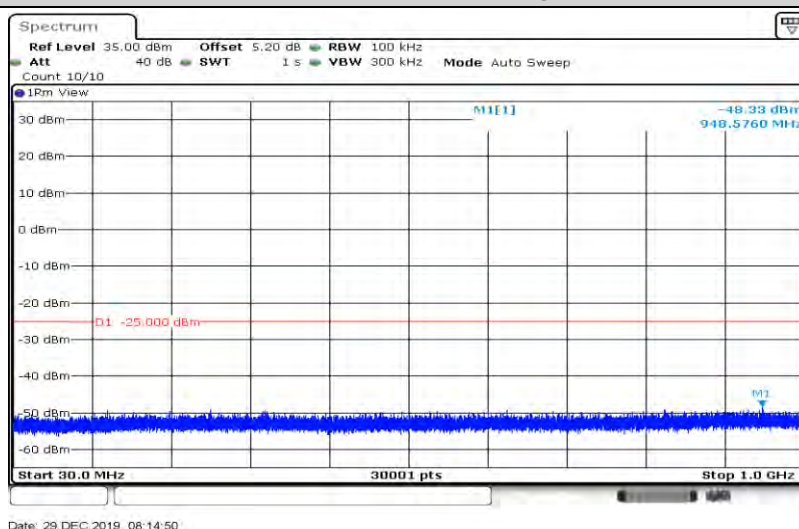
6. Spurious Emission at Antenna Terminal

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

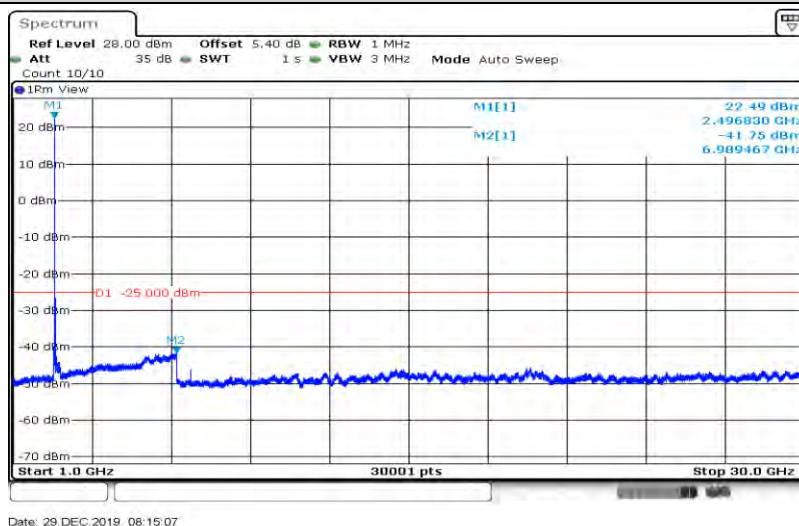
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band41-20MHz-QPSK-39750-1RB#0-Range1:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz

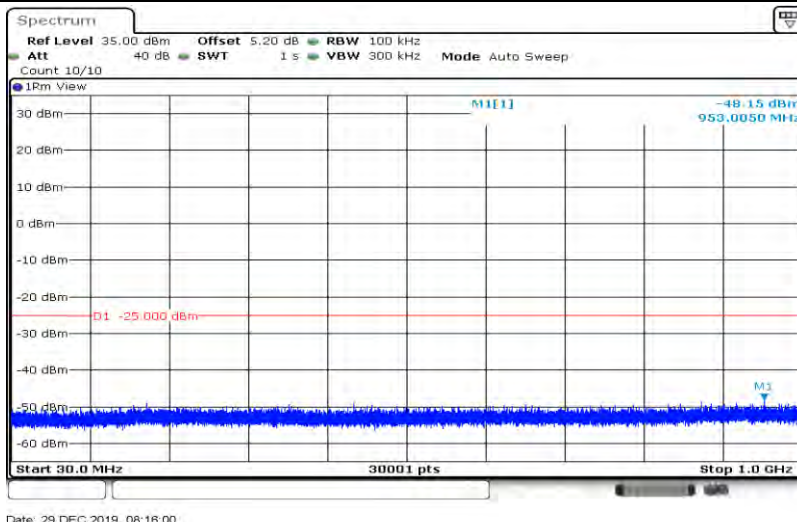


Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz

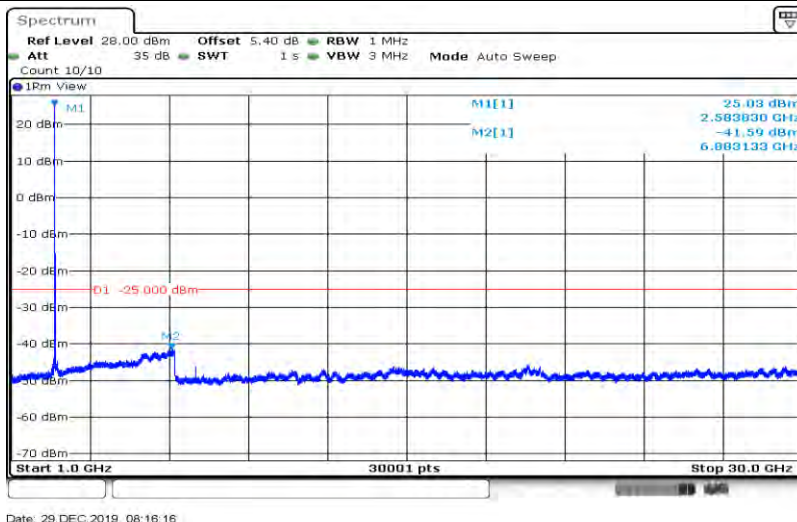


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

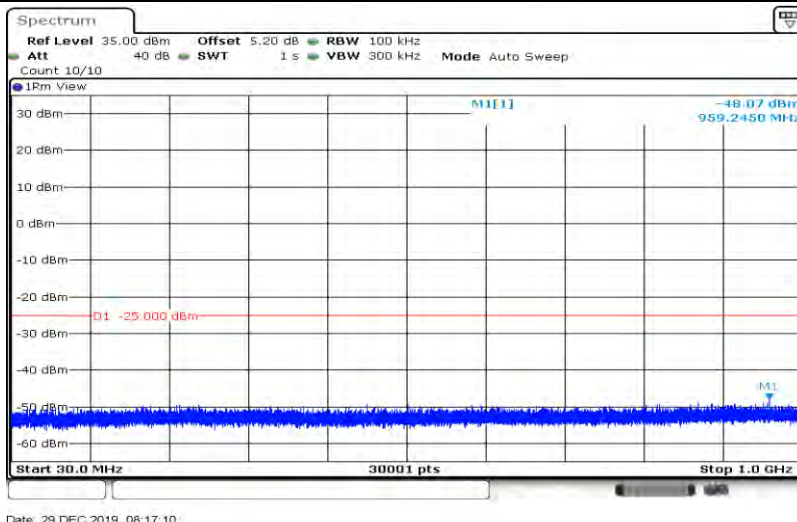


Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz

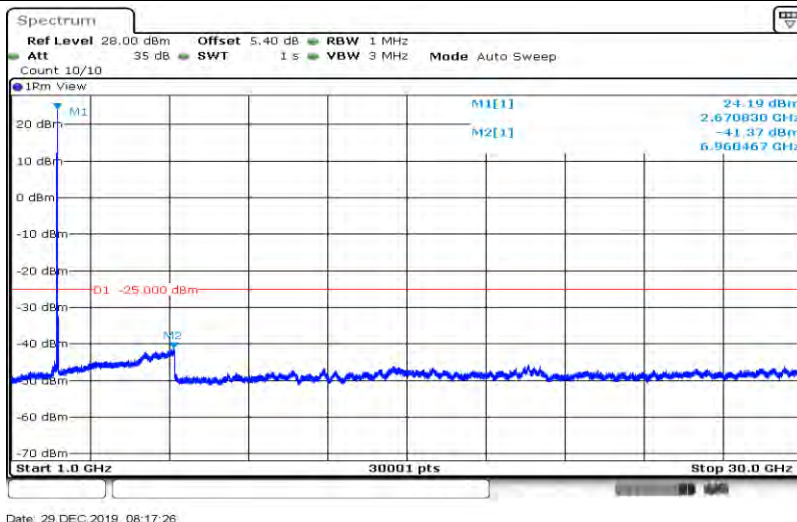


Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz





Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz



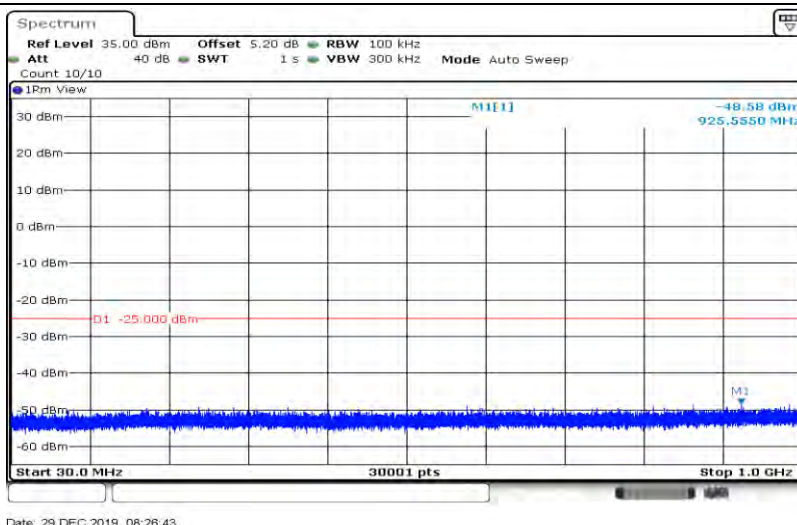
Band41-20MHz-64QAM-39750-1RB#0-Range1:30~1000MHz



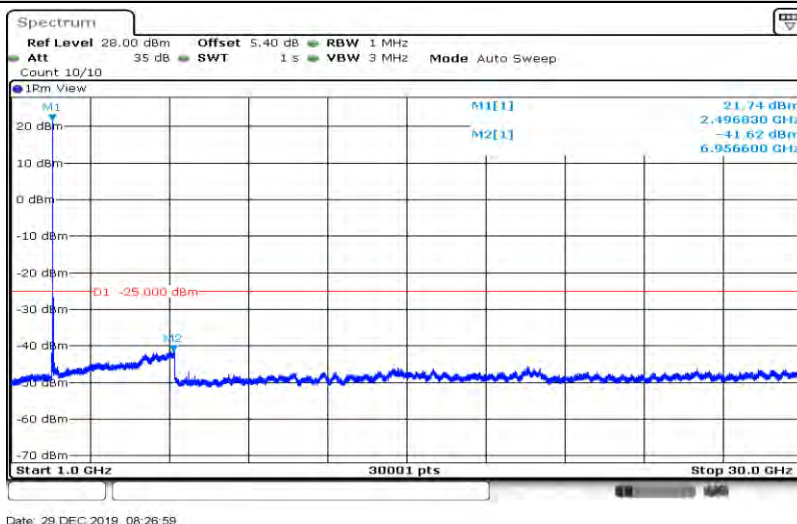
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

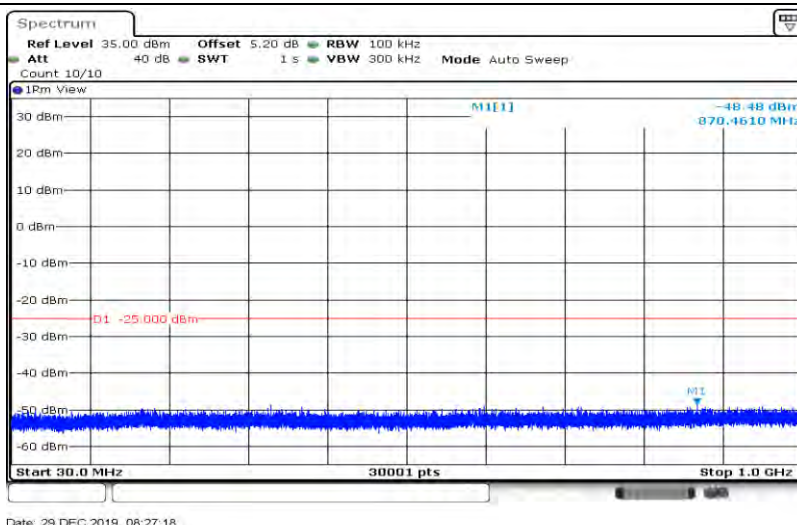


Band41-20MHz-64QAM-39750-1RB#0-Range2:1000~30000MHz

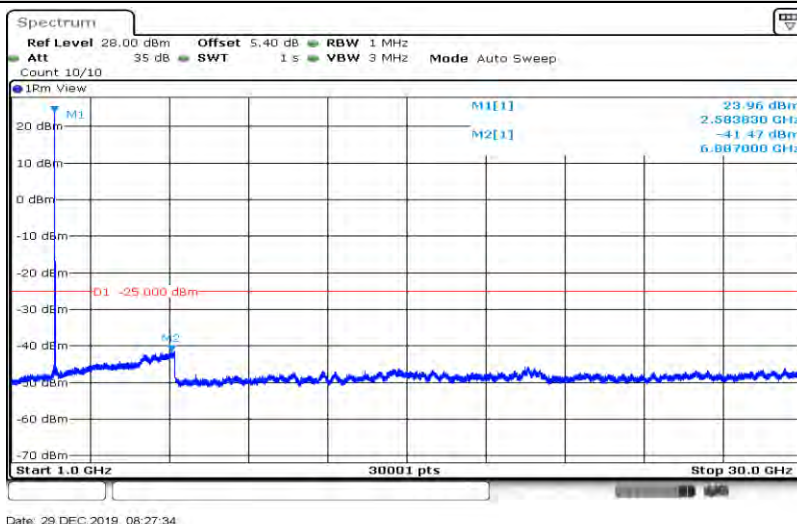


Band41-20MHz-64QAM-40620-1RB#0-Range1:30~1000MHz



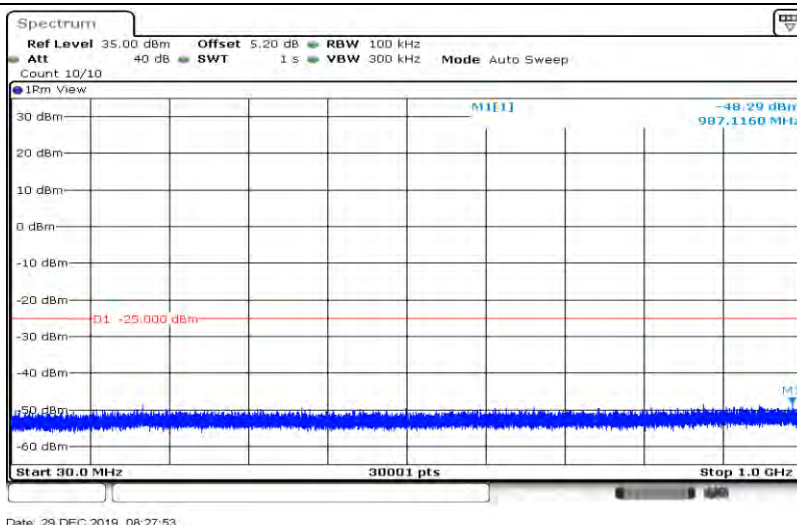


Band41-20MHz-64QAM-40620-1RB#0-Range2:1000~30000MHz

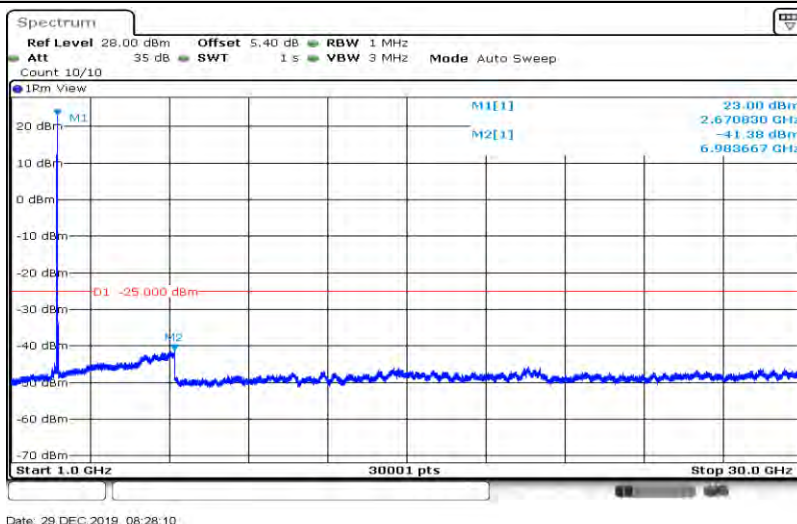


Band41-20MHz-64QAM-41490-1RB#0-Range1:30~1000MHz



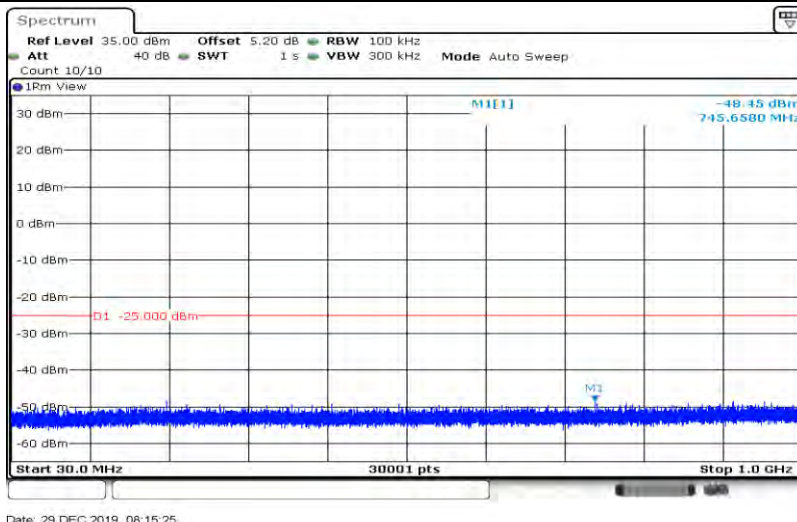


Band41-20MHz-64QAM-41490-1RB#0-Range2:1000~30000MHz

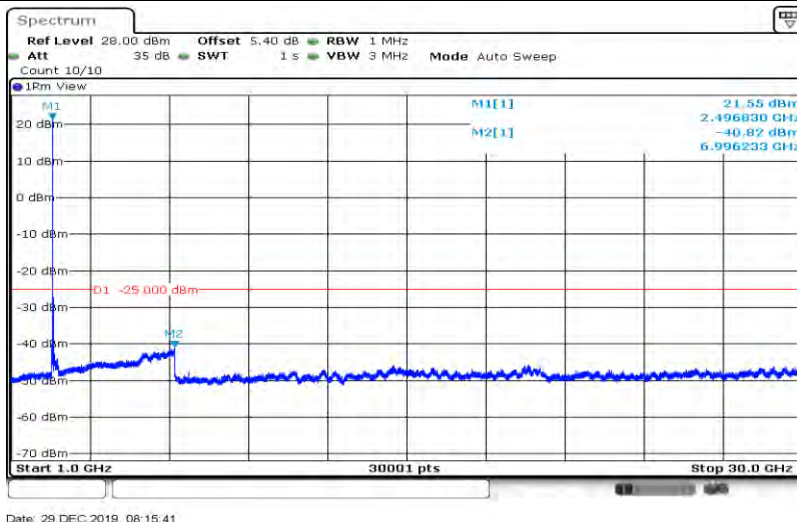


Band41-20MHz-16QAM-39750-1RB#0-Range1:30~1000MHz





Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz

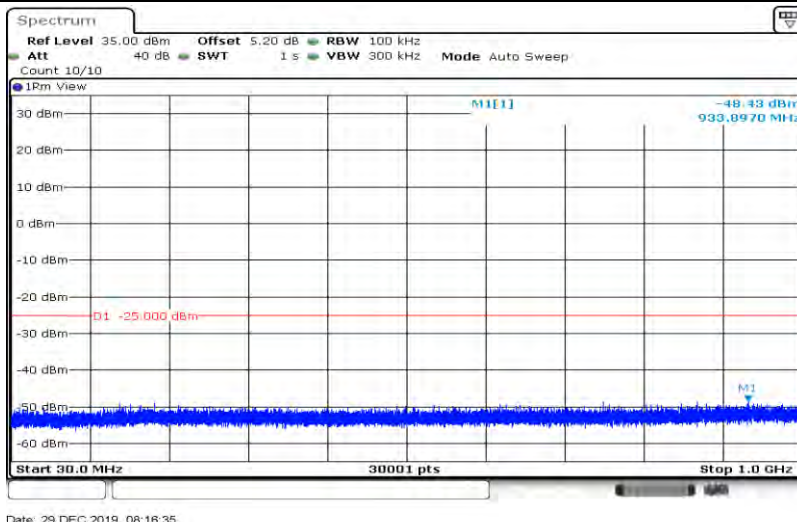


Band41-20MHz-16QAM-40620-1RB#0-Range1:30~1000MHz

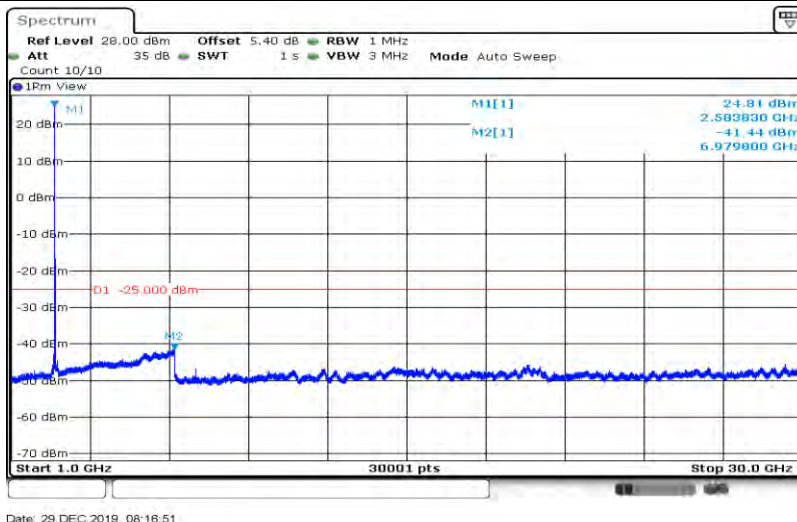


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

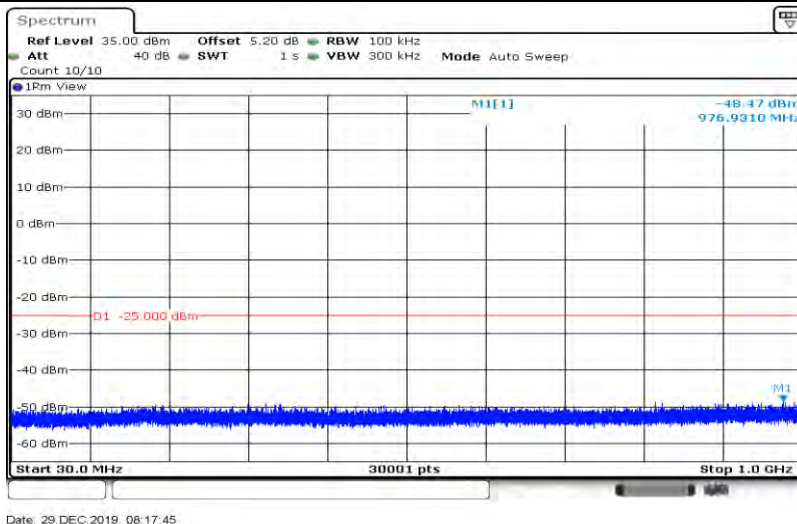


Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz

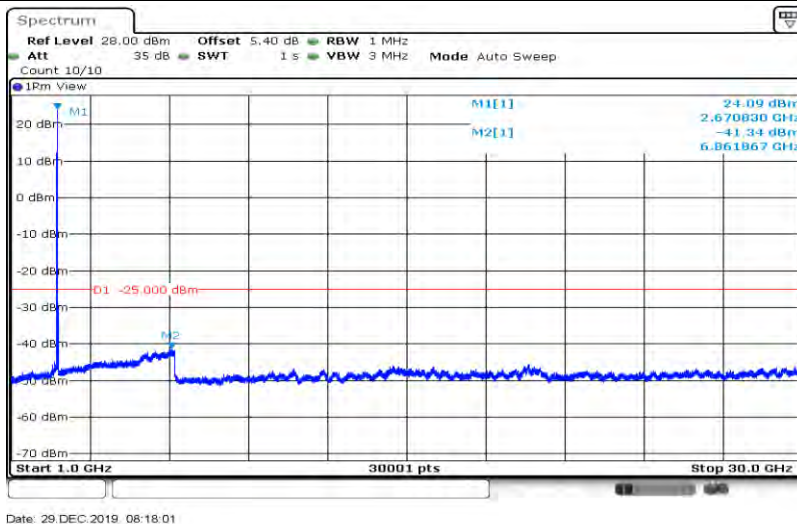


Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz





Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~30000MHz





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
90.900000	-75.68	-25.00	50.68	Vertical
624.900000	-66.81	-25.00	41.81	Vertical
4994.000000	-55.72	-25.00	30.72	Vertical
7491.000000	-49.58	-25.00	24.58	Vertical
9988.500000	-41.66	-25.00	16.66	Vertical
14982.500000	-49.94	-25.00	24.94	Vertical
89.450000	-70.56	-25.00	45.56	Horizontal
624.900000	-62.99	-25.00	37.99	Horizontal
4994.000000	-61.07	-25.00	36.07	Horizontal
7491.000000	-52.24	-25.00	27.24	Horizontal
9988.500000	-43.07	-25.00	18.07	Horizontal
14982.500000	-50.16	-25.00	25.16	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
90.250000	-75.25	-25.00	50.25	Vertical
152.550000	-77.76	-25.00	52.76	Vertical
624.900000	-66.27	-25.00	41.27	Vertical
5168.000000	-57.69	-25.00	32.69	Vertical
7752.000000	-46.25	-25.00	21.25	Vertical
10336.500000	-40.54	-25.00	15.54	Vertical
89.850000	-70.59	-25.00	45.59	Horizontal
151.750000	-77.29	-25.00	52.29	Horizontal
624.900000	-63.27	-25.00	38.27	Horizontal
5168.000000	-60.03	-25.00	35.03	Horizontal
7752.000000	-52.09	-25.00	27.09	Horizontal
10336.500000	-43.18	-25.00	18.18	Horizontal





7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
85.600000	-75.22	-25.00	50.22	Vertical
150.950000	-76.61	-25.00	51.61	Vertical
624.900000	-67.04	-25.00	42.04	Vertical
5342.000000	-54.16	-25.00	29.16	Vertical
8013.000000	-46.36	-25.00	21.36	Vertical
10684.000000	-46.64	-25.00	21.64	Vertical
89.500000	-70.49	-25.00	45.49	Horizontal
152.150000	-77.58	-25.00	52.58	Horizontal
624.900000	-63.43	-25.00	38.43	Horizontal
5341.500000	-58.55	-25.00	33.55	Horizontal
8013.000000	-51.33	-25.00	26.33	Horizontal
10684.000000	-51.36	-25.00	26.36	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.



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

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

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

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

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-1.60	-0.000638	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-2.00	-0.000798	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-7.80	-0.003113	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-13.00	-0.005013	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-20.60	-0.007944	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-3.20	-0.001234	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-20.20	-0.007537	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-13.60	-0.005075	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-4.30	-0.001604	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VL	NT	-5.40	-0.002155	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VN	NT	-2.90	-0.001157	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	VH	NT	-3.30	-0.001317	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VL	NT	13.60	0.005245	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VN	NT	-10.30	-0.003972	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	VH	NT	-1.00	-0.000386	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VL	NT	-2.10	-0.000784	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VN	NT	-5.90	-0.002201	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	VH	NT	1.00	0.000373	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-5.30	-0.002115	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	-3.70	-0.001476	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	-6.80	-0.002713	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	8.10	0.003124	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-8.00	-0.003085	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	4.60	0.001774	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	-10.20	-0.003806	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-11.50	-0.004291	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	-1.60	-0.000597	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-6.40	-0.002554	±2.5	PASS



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

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



Band41	20MHz	QPSK	39750	100RB#0	NV	-20	-12.00	-0.004789	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-7.20	-0.002873	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-7.70	-0.003073	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-0.20	-0.000080	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-3.30	-0.001317	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-17.00	-0.006784	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-1.30	-0.000519	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-5.20	-0.002005	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-0.80	-0.000309	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-10.90	-0.004204	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-9.10	-0.003509	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-0.30	-0.000116	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-4.80	-0.001851	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-5.50	-0.002121	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-4.20	-0.001620	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-5.80	-0.002164	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-0.70	-0.000261	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-0.60	-0.000224	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	3.50	0.001306	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	4.20	0.001567	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-6.60	-0.002463	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	8.80	0.003284	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	-16.10	-0.006007	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	-30	8.00	0.003192	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	-20	-3.30	-0.001317	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	0	1.10	0.000439	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	10	-7.90	-0.003152	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	20	1.10	0.000439	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	30	-1.00	-0.000399	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	40	0.40	0.000160	±2.5	PASS
Band41	20MHz	64QAM	39750	100RB#0	NV	50	6.30	0.002514	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-30	-4.80	-0.001851	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	-20	-11.80	-0.004551	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	0	9.10	0.003509	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	10	-15.00	-0.005785	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	20	-8.90	-0.003432	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	30	-9.80	-0.003779	±2.5	PASS
Band41	20MHz	64QAM	40620	100RB#0	NV	40	-10.90	-0.004204	±2.5	PASS



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

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



Band41	20MHz	64QAM	40620	100RB#0	NV	50	-6.80	-0.002622	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	-30	-1.50	-0.000560	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	-20	-10.40	-0.003881	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	0	-5.00	-0.001866	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	10	-2.20	-0.000821	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	20	-9.20	-0.003433	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	30	-18.70	-0.006978	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	40	-13.90	-0.005187	±2.5	PASS
Band41	20MHz	64QAM	41490	100RB#0	NV	50	-14.80	-0.005522	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-14.30	-0.005706	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	14.30	0.005706	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-4.60	-0.001836	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	4.10	0.001636	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-14.20	-0.005666	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	-3.90	-0.001556	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	-10.10	-0.004030	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	-11.50	-0.004589	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-13.30	-0.005129	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-9.40	-0.003625	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	5.20	0.002005	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-5.10	-0.001967	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	3.60	0.001388	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	-7.00	-0.002700	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-1.90	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	1.90	0.000733	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	-3.30	-0.001231	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	4.60	0.001716	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	-1.10	-0.000410	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	10.40	0.003881	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	-1.30	-0.000485	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	-6.60	-0.002463	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	0.70	0.000261	±2.5	PASS

The End



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com