



Appendix B

E-UTRA Band CA_41C



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



CONTENT

Page

1	EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA	3
1.1	EFFECTIVE ISOTROPIC RADIATED POWER OF TRANSMITTER (EIRP) FOR LTE BAND CA_41C (DOWN ANTENNA)	3
1.1	EFFECTIVE ISOTROPIC RADIATED POWER OF TRANSMITTER (EIRP) FOR LTE BAND CA_41C (UP ANTENNA)	4
2	PEAK-TO-AVERAGE RATIO.....	7
2.1	FOR LTE.....	8
2.1.1	Test Band = LTE Band CA_41C.....	8
3	MODULATION CHARACTERISTICS.....	17
3.1	FOR LTE.....	17
3.1.1	Test Band = LTE Band CA_41C.....	17
4	26DB BANDWIDTH AND OCCUPIED BANDWIDTH	20
4.1	FOR LTE.....	21
4.1.1	Test Band = LTE Band CA_41C.....	21
5	BAND EDGES COMPLIANCE.....	39
5.1	FOR LTE.....	39
5.1.1	Test Band = LTE Band CA_41C.....	39
6	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	51
6.1	FOR LTE.....	51
6.1.1	Test Band = LTE Band CA_41C.....	51
7	FIELD STRENGTH OF SPURIOUS RADIATION	54
7.1	FOR LTE.....	54
7.1.1	Test Band = LTE Band CA_41C (Down Antenna).....	54
7.1.2	Test Band = LTE Band CA_41C (Up Antenna)	60
8	FREQUENCY STABILITY	66
8.1	FREQUENCY ERROR VS. VOLTAGE	66
8.2	FREQUENCY ERROR VS. TEMPERATURE	66



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (M-10) Testing Laboratory

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

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



1 Effective (Isotropic) Radiated Power Output Data

1.1 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA 41C (Down Antenna)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	QPSK	22.28	24.07	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	QPSK	22.46	24.25	33.00	Pass
CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	QPSK	22.40	24.19	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	QPSK	22.47	24.26	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	QPSK	22.21	24.00	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	QPSK	22.19	23.98	33.00	Pass
CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	QPSK	22.23	24.02	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	QPSK	22.28	24.07	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	QPSK	22.24	24.03	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	QPSK	22.35	24.14	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	QPSK	22.16	23.95	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	QPSK	22.23	24.02	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	QPSK	21.57	23.36	33.00	Pass
CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	QPSK	21.23	23.02	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	QPSK	21.84	23.63	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	QPSK	21.37	23.16	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	QPSK	21.37	23.16	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	QPSK	21.15	22.94	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	QPSK	21.39	23.18	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	QPSK	21.42	23.21	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	QPSK	21.55	23.34	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	QPSK	21.42	23.21	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	QPSK	21.40	23.19	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	QPSK	21.20	22.99	33.00	Pass
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	16QAM	21.57	23.36	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	16QAM	21.23	23.02	33.00	Pass
CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	16QAM	21.84	23.63	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	16QAM	21.37	23.16	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	16QAM	21.37	23.16	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	16QAM	21.15	22.94	33.00	Pass
CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	16QAM	21.39	23.18	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	16QAM	21.42	23.21	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	16QAM	21.55	23.34	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	16QAM	21.42	23.21	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	16QAM	21.40	23.19	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	16QAM	21.20	22.99	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	16QAM	20.62	22.41	33.00	Pass



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Not a Public Laboratory)

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



CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	16QAM	20.40	22.19	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	16QAM	20.49	22.28	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	16QAM	20.53	22.32	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	16QAM	20.32	22.11	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	16QAM	20.30	22.09	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	16QAM	20.47	22.26	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	16QAM	20.37	22.16	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	16QAM	20.70	22.49	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	16QAM	20.16	21.95	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	16QAM	20.17	21.96	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	16QAM	20.06	21.85	33.00	Pass
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	64QAM	22.34	24.13	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	64QAM	22.47	24.26	33.00	Pass
CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	64QAM	22.41	24.20	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	64QAM	22.25	24.04	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	64QAM	22.29	24.08	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	64QAM	22.29	24.08	33.00	Pass
CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	64QAM	22.35	24.14	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	64QAM	22.39	24.18	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	64QAM	22.17	23.96	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	64QAM	22.22	24.01	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	64QAM	22.15	23.94	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	64QAM	22.21	24.00	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	64QAM	21.55	23.34	33.00	Pass
CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	64QAM	21.54	23.33	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	64QAM	21.77	23.56	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	64QAM	21.20	22.99	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	64QAM	21.55	23.34	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	64QAM	21.24	23.03	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	64QAM	21.60	23.39	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	64QAM	21.39	23.18	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	64QAM	21.64	23.43	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	64QAM	21.14	22.93	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	64QAM	21.57	23.36	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	64QAM	21.16	22.95	33.00	Pass

1.1 Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_41C (Up Antenna)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	QPSK	21.89	20.51	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	QPSK	21.80	20.42	33.00	Pass
CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	QPSK	21.88	20.50	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	QPSK	21.56	20.18	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	QPSK	21.67	20.29	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	QPSK	21.23	19.85	33.00	Pass



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



CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	QPSK	21.48	20.10	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	QPSK	21.73	20.35	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	QPSK	21.21	19.83	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	QPSK	21.41	20.03	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	QPSK	21.02	19.64	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	QPSK	21.05	19.67	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	QPSK	21.88	20.50	33.00	Pass
CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	QPSK	21.79	20.41	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	QPSK	21.55	20.17	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	QPSK	21.52	20.14	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	QPSK	21.72	20.34	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	QPSK	21.47	20.09	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	QPSK	21.64	20.26	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	QPSK	21.54	20.16	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	QPSK	21.21	19.83	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	QPSK	21.52	20.14	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	QPSK	21.66	20.28	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	QPSK	21.20	19.82	33.00	Pass
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	16QAM	20.84	19.46	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	16QAM	20.78	19.40	33.00	Pass
CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	16QAM	20.62	19.24	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	16QAM	20.48	19.10	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	16QAM	20.32	18.94	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	16QAM	20.16	18.78	33.00	Pass
CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	16QAM	19.93	18.55	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	16QAM	20.74	19.36	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	16QAM	20.47	19.09	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	16QAM	20.42	19.04	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	16QAM	20.49	19.11	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	16QAM	20.02	18.64	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	16QAM	21.16	19.78	33.00	Pass
CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	16QAM	20.82	19.44	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	16QAM	20.47	19.09	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	16QAM	20.52	19.14	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	16QAM	20.92	19.54	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	16QAM	20.40	19.02	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	16QAM	20.74	19.36	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	16QAM	20.46	19.08	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	16QAM	20.51	19.13	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	16QAM	20.39	19.01	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	16QAM	20.29	18.91	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	16QAM	20.18	18.80	33.00	Pass
CA_41C	100RB+25RB	40140+40257	1RB@0	0RB@0	64QAM	19.81	18.43	33.00	Pass
CA_41C	100RB+25RB	40140+40257	18RB@0	0RB@0	64QAM	19.78	18.40	33.00	Pass



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (M-10) Science & Technology Park, Shenzhen, China

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



CA_41C	100RB+25RB	40615+40732	1RB@0	0RB@0	64QAM	19.57	18.19	33.00	Pass
CA_41C	100RB+25RB	40615+40732	18RB@0	0RB@0	64QAM	19.51	18.13	33.00	Pass
CA_41C	100RB+25RB	41090+41207	1RB@0	0RB@0	64QAM	19.62	18.24	33.00	Pass
CA_41C	100RB+25RB	41090+41207	18RB@0	0RB@0	64QAM	19.20	17.82	33.00	Pass
CA_41C	25RB+100RB	40257+40140	1RB@0	0RB@0	64QAM	19.50	18.12	33.00	Pass
CA_41C	25RB+100RB	40257+40140	8RB@0	0RB@0	64QAM	19.67	18.29	33.00	Pass
CA_41C	25RB+100RB	40732+40615	1RB@0	0RB@0	64QAM	19.69	18.31	33.00	Pass
CA_41C	25RB+100RB	40732+40615	8RB@0	0RB@0	64QAM	19.48	18.10	33.00	Pass
CA_41C	25RB+100RB	41207+41090	1RB@0	0RB@0	64QAM	19.53	18.15	33.00	Pass
CA_41C	25RB+100RB	41207+41090	8RB@0	0RB@0	64QAM	19.33	17.95	33.00	Pass
CA_41C	100RB+100RB	40140+40338	1RB@0	0RB@0	64QAM	19.78	18.40	33.00	Pass
CA_41C	100RB+100RB	40140+40338	18RB@0	0RB@0	64QAM	19.75	18.37	33.00	Pass
CA_41C	100RB+100RB	40541+40739	1RB@0	0RB@0	64QAM	19.67	18.29	33.00	Pass
CA_41C	100RB+100RB	40541+40739	18RB@0	0RB@0	64QAM	19.56	18.18	33.00	Pass
CA_41C	100RB+100RB	40942+41140	1RB@0	0RB@0	64QAM	19.98	18.60	33.00	Pass
CA_41C	100RB+100RB	40942+41140	18RB@0	0RB@0	64QAM	19.43	18.05	33.00	Pass
CA_41C	100RB+100RB	40338+40140	1RB@0	0RB@0	64QAM	19.93	18.55	33.00	Pass
CA_41C	100RB+100RB	40338+40140	18RB@0	0RB@0	64QAM	19.53	18.15	33.00	Pass
CA_41C	100RB+100RB	40739+40541	1RB@0	0RB@0	64QAM	19.59	18.21	33.00	Pass
CA_41C	100RB+100RB	40739+40541	18RB@0	0RB@0	64QAM	19.43	18.05	33.00	Pass
CA_41C	100RB+100RB	41140+40942	1RB@0	0RB@0	64QAM	19.59	18.21	33.00	Pass
CA_41C	100RB+100RB	41140+40942	18RB@0	0RB@0	64QAM	19.35	17.97	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]



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

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

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



2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_41C	QPSK	100RB+100RB	40140+40338	100RB@0	100RB@0	5.71	13	PASS
CA_41C	QPSK	100RB+100RB	40541+40739	100RB@0	100RB@0	7.25	13	PASS
CA_41C	QPSK	100RB+100RB	40942+41140	100RB@0	100RB@0	6.41	13	PASS
CA_41C	QPSK	100RB+100RB	40338+40140	100RB@0	100RB@0	7.33	13	PASS
CA_41C	QPSK	100RB+100RB	40739+40541	100RB@0	100RB@0	6.43	13	PASS
CA_41C	QPSK	100RB+100RB	41140+40942	100RB@0	100RB@0	8.06	13	PASS
CA_41C	16QAM	100RB+100RB	40140+40338	100RB@0	100RB@0	7.01	13	PASS
CA_41C	16QAM	100RB+100RB	40541+40739	100RB@0	100RB@0	7.07	13	PASS
CA_41C	16QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	7.36	13	PASS
CA_41C	16QAM	100RB+100RB	40338+40140	100RB@0	100RB@0	7.04	13	PASS
CA_41C	16QAM	100RB+100RB	40739+40541	100RB@0	100RB@0	7.19	13	PASS
CA_41C	16QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.22	13	PASS
CA_41C	64QAM	100RB+100RB	40140+40338	100RB@0	100RB@0	7.13	13	PASS
CA_41C	64QAM	100RB+100RB	40541+40739	100RB@0	100RB@0	7.42	13	PASS
CA_41C	64QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	7.10	13	PASS
CA_41C	64QAM	100RB+100RB	40338+40140	100RB@0	100RB@0	6.46	13	PASS
CA_41C	64QAM	100RB+100RB	40739+40541	100RB@0	100RB@0	7.88	13	PASS
CA_41C	64QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.33	13	PASS



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

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

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

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

Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE Band CA_41C

CA_41C_QPSK_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:04:07

CA_41C_QPSK_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:08:06

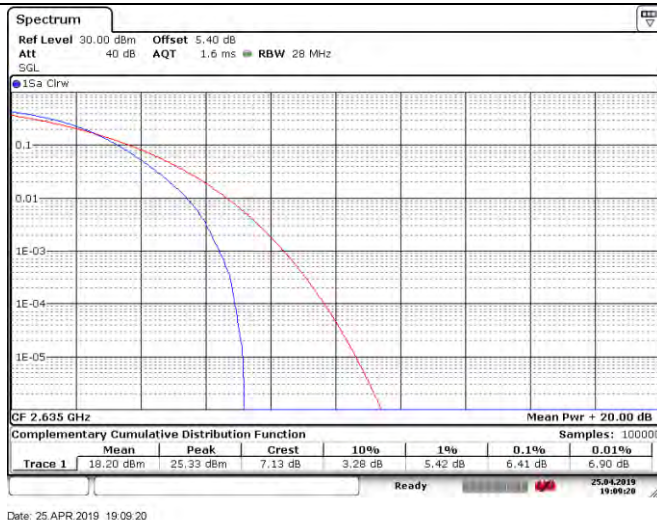
CA_41C_QPSK_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0



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

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

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

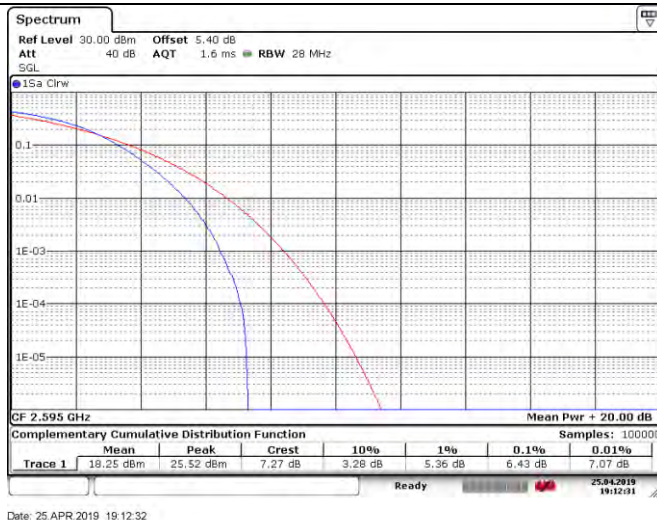


CA_41C_QPSK_100RB+100RB_40338+40140_PCC:100RB@0_SCC:100RB@0



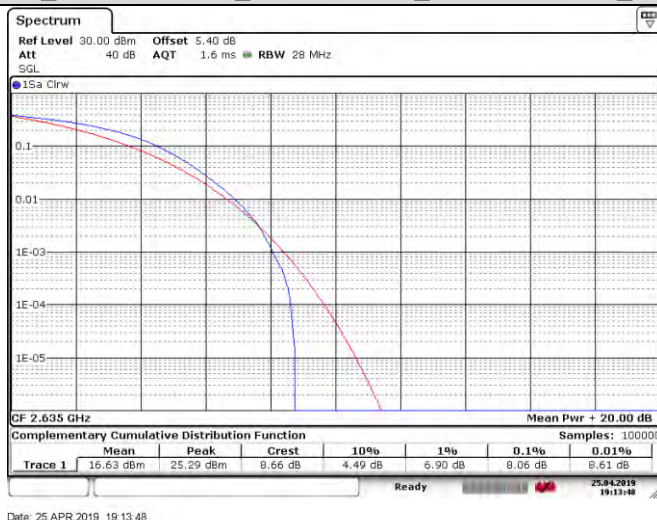
CA_41C_QPSK_100RB+100RB_40739+40541_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 19:12:32

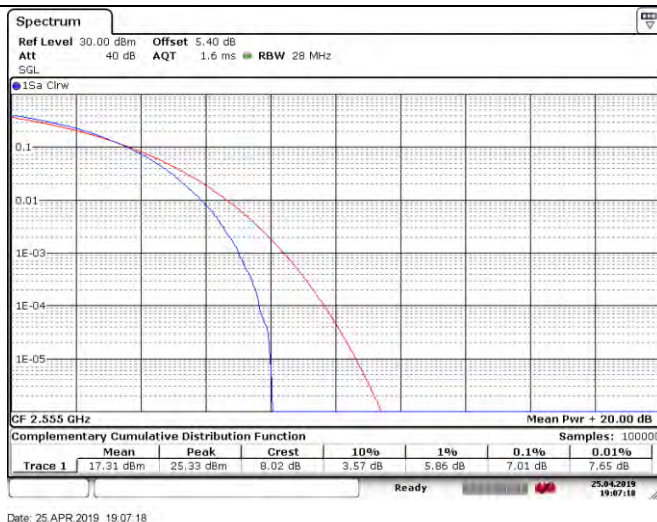
CA_41C_QPSK_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:13:48

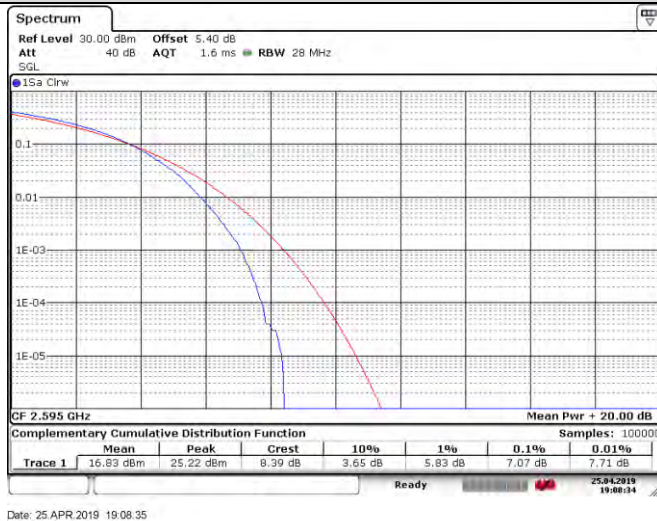
CA_41C_16QAM_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 19:07:18

CA_41C_16QAM_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:08:35

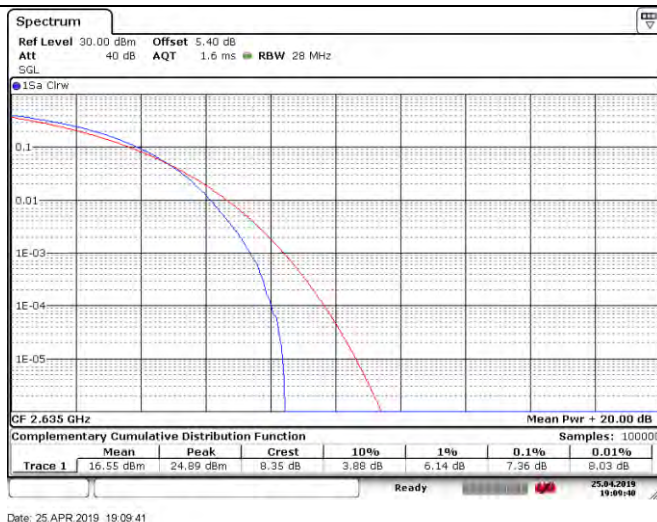
CA_41C_16QAM_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0



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

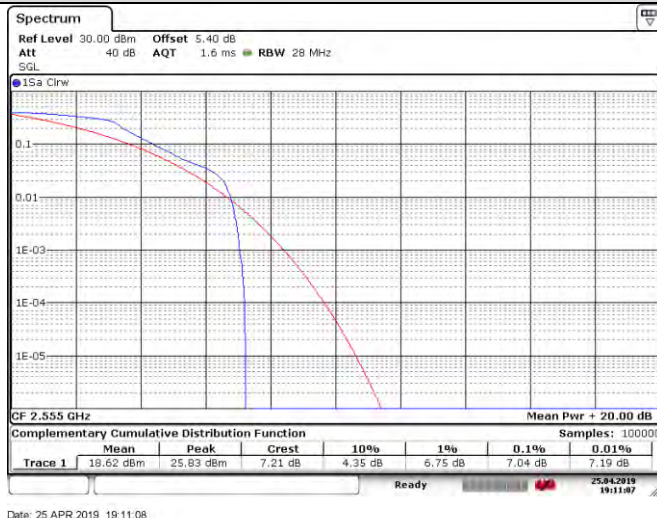
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 25 APR 2019 19:09:41

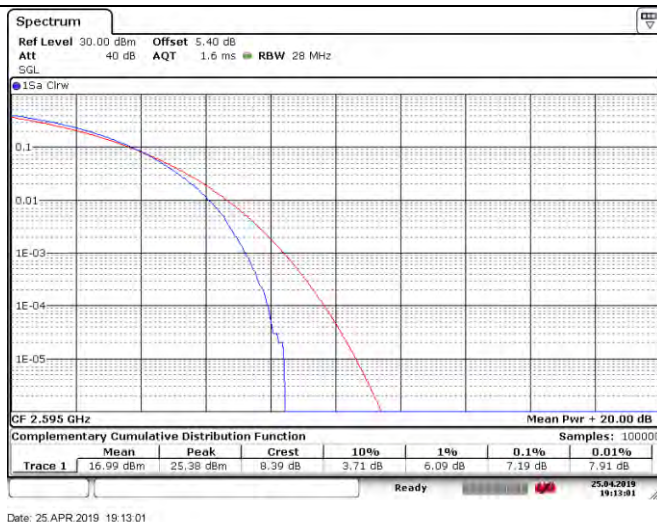
CA_41C_16QAM_100RB+100RB_40338+40140_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:11:08

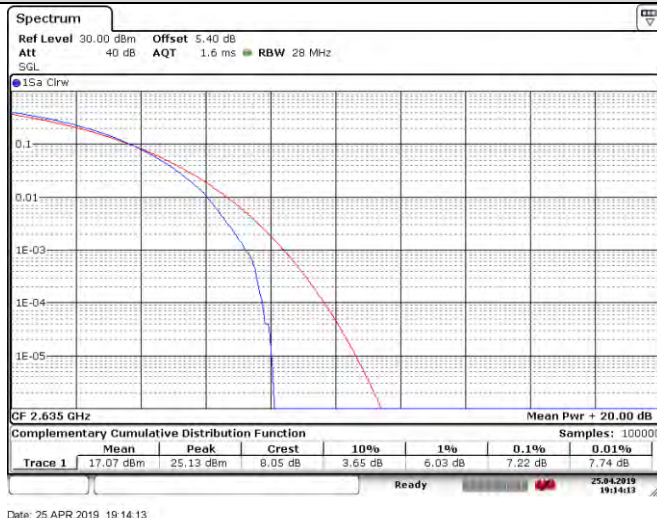
CA_41C_16QAM_100RB+100RB_40739+40541_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 19:13:01

CA_41C_16QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:14:13

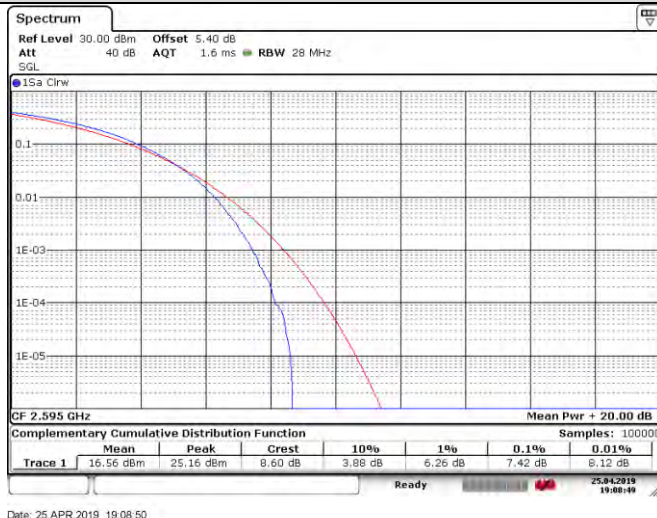
CA_41C_64QAM_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 19:07:34

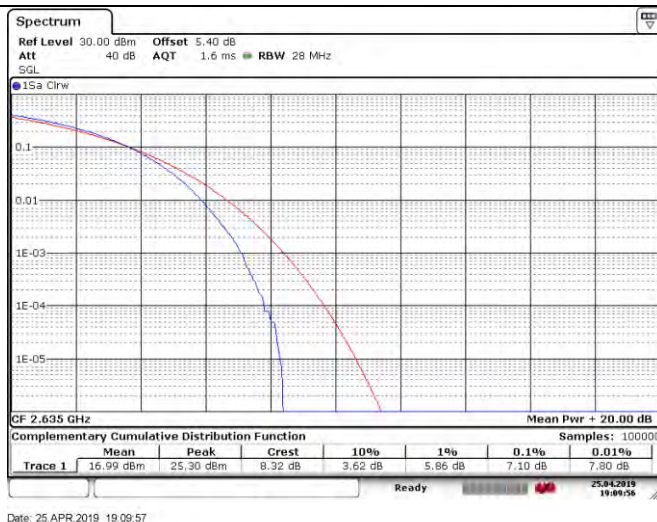
CA_41C_64QAM_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:08:50

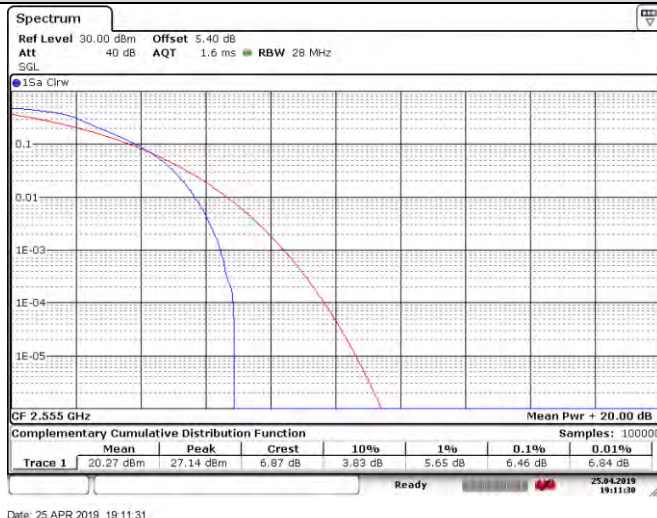
CA_41C_64QAM_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 19:09:57

CA_41C_64QAM_100RB+100RB_40338+40140_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:11:31

CA_41C_64QAM_100RB+100RB_40739+40541_PCC:100RB@0_SCC:100RB@0

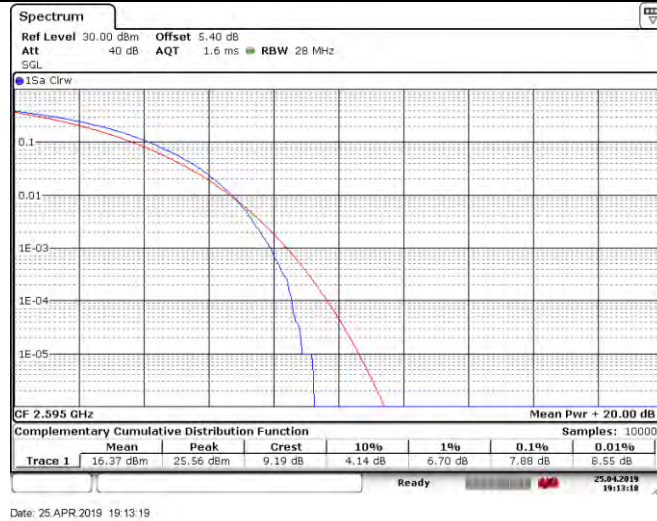


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

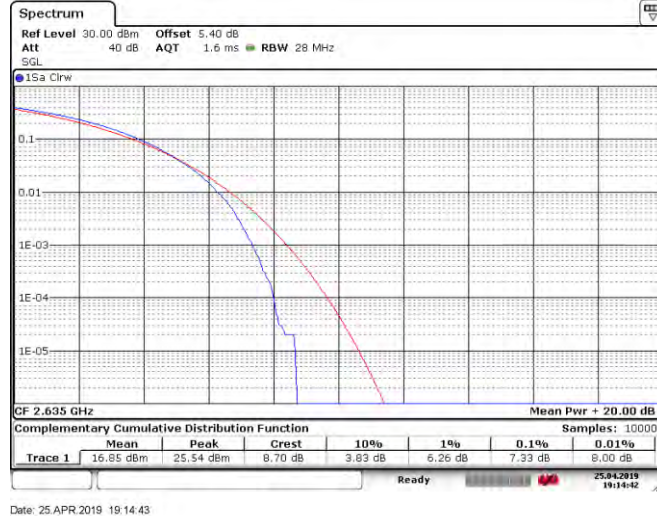
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC) Laboratory

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



Date: 25 APR 2019 19:13:19

CA_41C_64QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 19:14:43



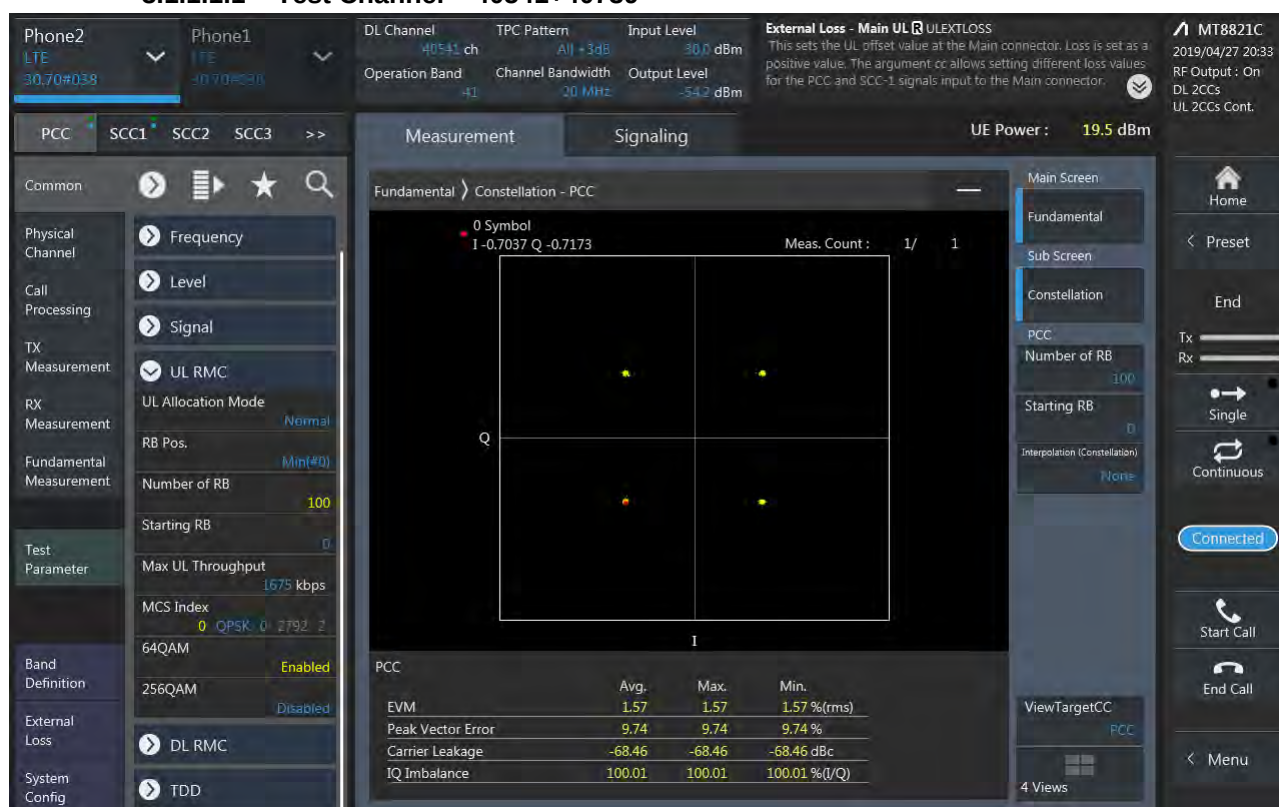
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_41C

3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

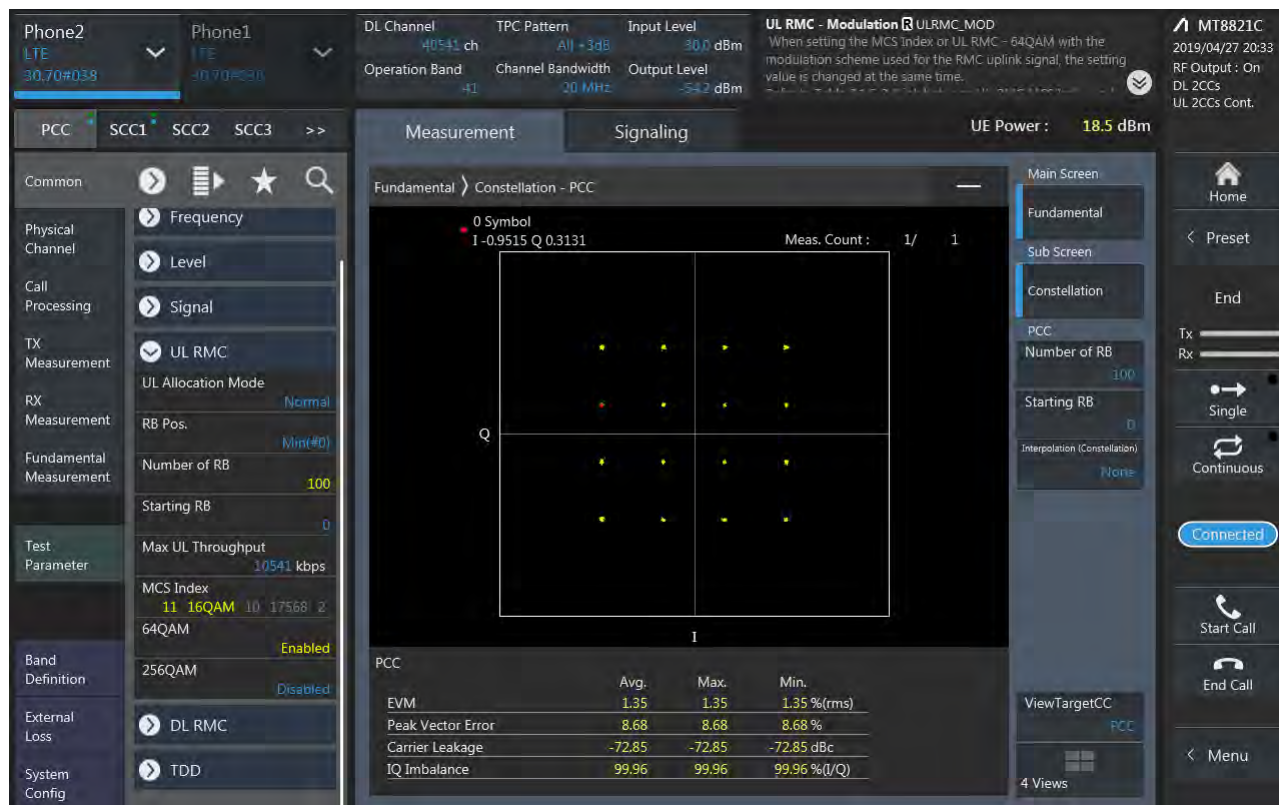
3.1.1.1.1 Test Channel = 40541+40739





3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

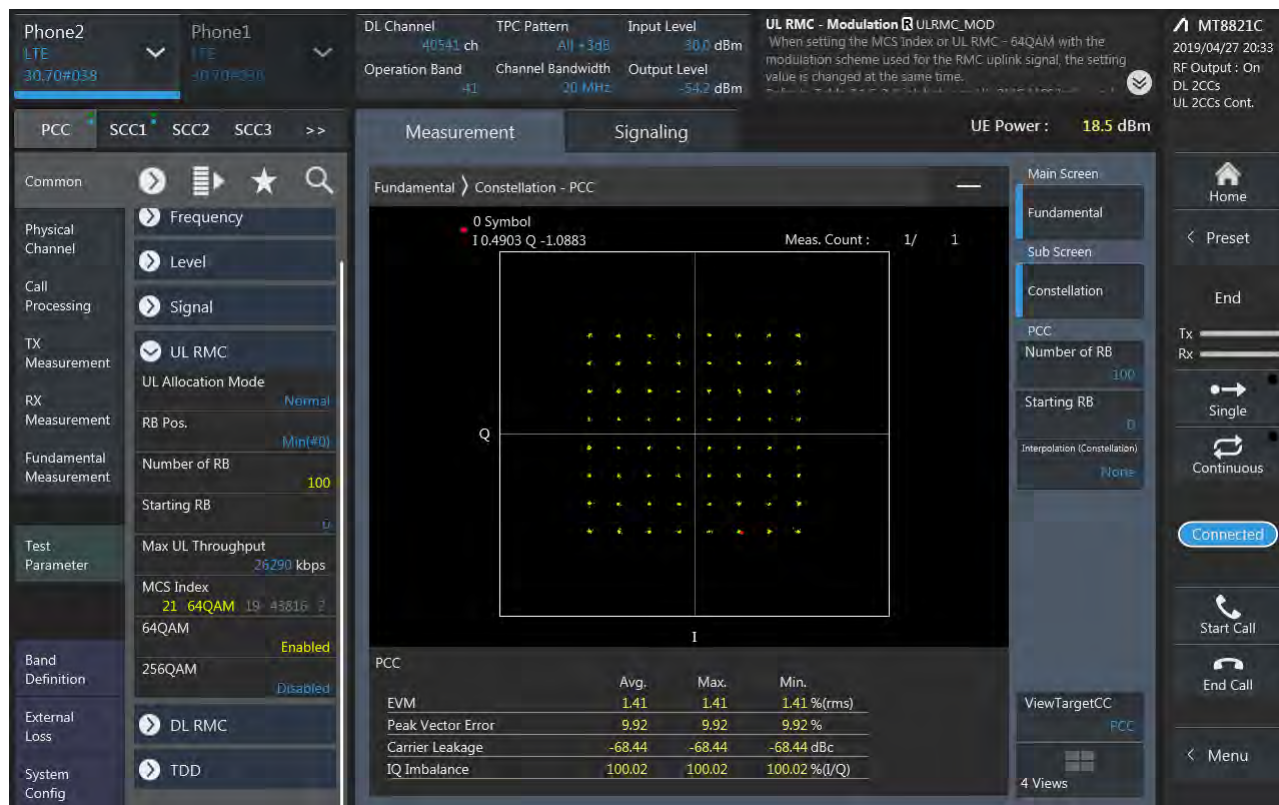
3.1.1.2.1 Test Channel = 40541+40739





3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 40541+40739





4 26dB Bandwidth and Occupied Bandwidth

Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_41C	QPSK	100RB+25RB	40140+40257	100RB@0	25RB@0	22.92	24.07	PASS
CA_41C	QPSK	100RB+25RB	40615+40732	100RB@0	25RB@0	22.82	24.13	PASS
CA_41C	QPSK	100RB+25RB	41090+41207	100RB@0	25RB@0	22.83	24.03	PASS
CA_41C	QPSK	25RB+100RB	40257+40140	25RB@0	100RB@0	22.83	24.43	PASS
CA_41C	QPSK	25RB+100RB	40732+40615	25RB@0	100RB@0	22.88	24.08	PASS
CA_41C	QPSK	25RB+100RB	41207+41090	25RB@0	100RB@0	22.88	24.03	PASS
CA_41C	16QAM	100RB+25RB	40140+40257	100RB@0	25RB@0	22.83	24.18	PASS
CA_41C	16QAM	100RB+25RB	40615+40732	100RB@0	25RB@0	22.83	24.13	PASS
CA_41C	16QAM	100RB+25RB	41090+41207	100RB@0	25RB@0	22.78	24.13	PASS
CA_41C	16QAM	25RB+100RB	40257+40140	25RB@0	100RB@0	22.83	23.88	PASS
CA_41C	16QAM	25RB+100RB	40732+40615	25RB@0	100RB@0	22.78	23.83	PASS
CA_41C	16QAM	25RB+100RB	41207+41090	25RB@0	100RB@0	22.83	23.98	PASS
CA_41C	64QAM	100RB+25RB	40140+40257	100RB@0	25RB@0	22.88	24.18	PASS
CA_41C	64QAM	100RB+25RB	40615+40732	100RB@0	25RB@0	22.88	24.98	PASS
CA_41C	64QAM	100RB+25RB	41090+41207	100RB@0	25RB@0	22.83	24.28	PASS
CA_41C	64QAM	25RB+100RB	40257+40140	25RB@0	100RB@0	22.78	24.08	PASS
CA_41C	64QAM	25RB+100RB	40732+40615	25RB@0	100RB@0	22.73	23.98	PASS
CA_41C	64QAM	25RB+100RB	41207+41090	25RB@0	100RB@0	22.78	24.18	PASS
CA_41C	QPSK	100RB+100RB	40140+40338	100RB@0	100RB@0	37.56	39.56	PASS
CA_41C	QPSK	100RB+100RB	40541+40739	100RB@0	100RB@0	37.64	39.72	PASS
CA_41C	QPSK	100RB+100RB	40942+41140	100RB@0	100RB@0	37.56	39.48	PASS
CA_41C	QPSK	100RB+100RB	40338+40140	100RB@0	100RB@0	37.56	39.96	PASS
CA_41C	QPSK	100RB+100RB	40739+40541	100RB@0	100RB@0	37.56	39.80	PASS
CA_41C	QPSK	100RB+100RB	41140+40942	100RB@0	100RB@0	37.56	39.48	PASS
CA_41C	16QAM	100RB+100RB	40140+40338	100RB@0	100RB@0	37.48	39.64	PASS
CA_41C	16QAM	100RB+100RB	40541+40739	100RB@0	100RB@0	37.64	39.96	PASS
CA_41C	16QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	37.64	39.80	PASS
CA_41C	16QAM	100RB+100RB	40338+40140	100RB@0	100RB@0	37.56	40.20	PASS
CA_41C	16QAM	100RB+100RB	40739+40541	100RB@0	100RB@0	37.56	40.44	PASS
CA_41C	16QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	37.40	39.64	PASS
CA_41C	64QAM	100RB+100RB	40140+40338	100RB@0	100RB@0	37.40	39.56	PASS
CA_41C	64QAM	100RB+100RB	40541+40739	100RB@0	100RB@0	37.56	39.64	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 (Not a Testing 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

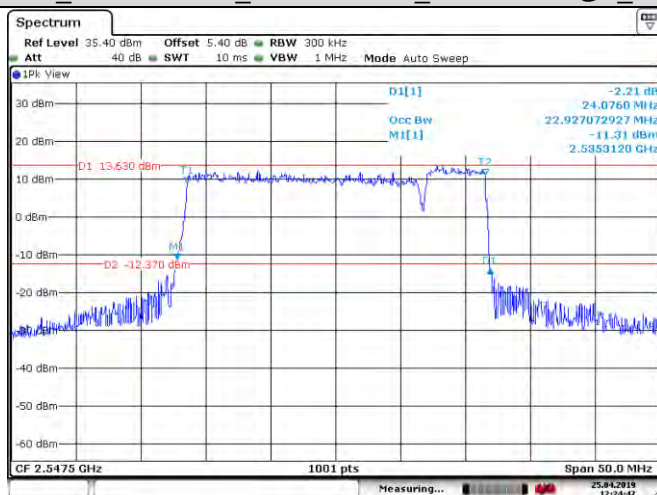


Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_41C	64QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	37.48	39.56	PASS
CA_41C	64QAM	100RB+100RB	40338+40140	100RB@0	100RB@0	37.56	40.04	PASS
CA_41C	64QAM	100RB+100RB	40739+40541	100RB@0	100RB@0	37.56	40.28	PASS
CA_41C	64QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	37.40	39.88	PASS

4.1 For LTE

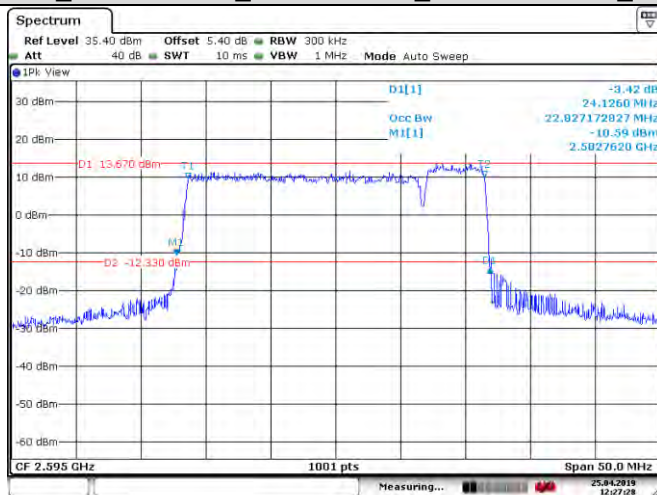
4.1.1 Test Band = LTE Band CA_41C

CA_41C_QPSK_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0



Date: 25.APR.2019 12:24:48

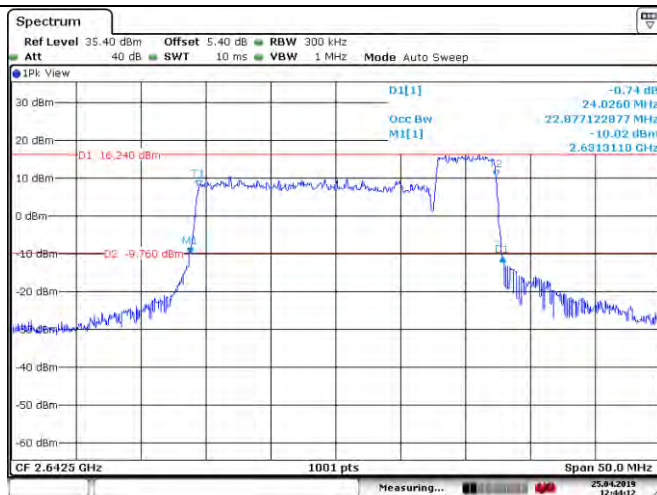
CA_41C_QPSK_100RB+25RB_40615+40732_PCC:100RB@0_SCC:25RB@0



Date: 25.APR.2019 12:27:28

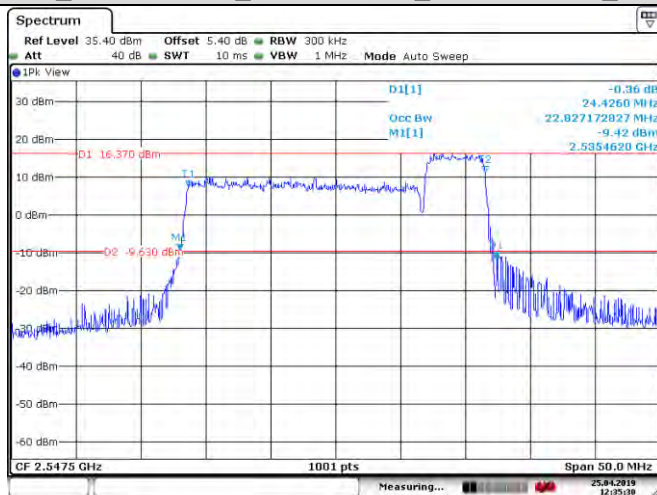
CA_41C_QPSK_100RB+25RB_41090+41207_PCC:100RB@0_SCC:25RB@0





Date: 25 APR 2019 12:44:12

CA_41C_QPSK_25RB+100RB_40257+40140_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 12:35:30

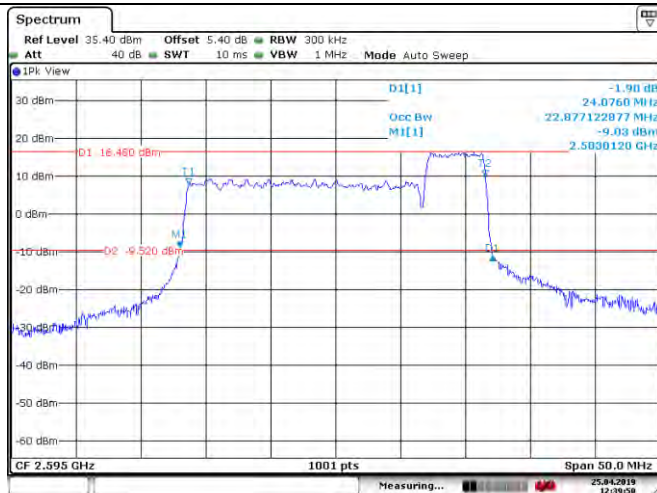
CA_41C_QPSK_25RB+100RB_40732+40615_PCC:25RB@0_SCC:100RB@0



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

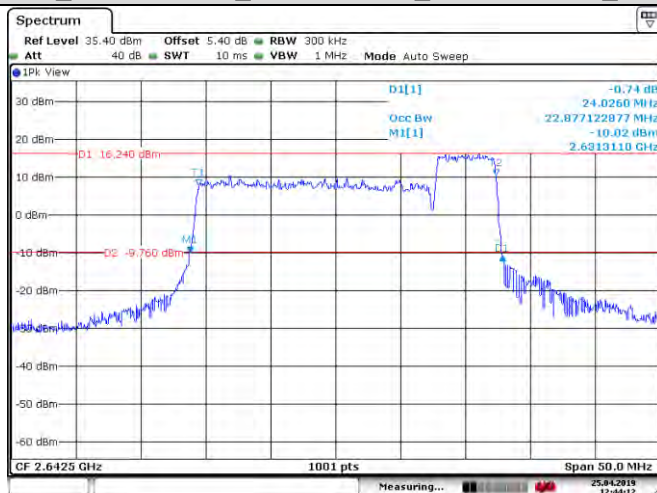
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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



Date: 25 APR 2019 12:39:50

CA_41C_QPSK_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 12:44:12

CA_41C_16QAM_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0

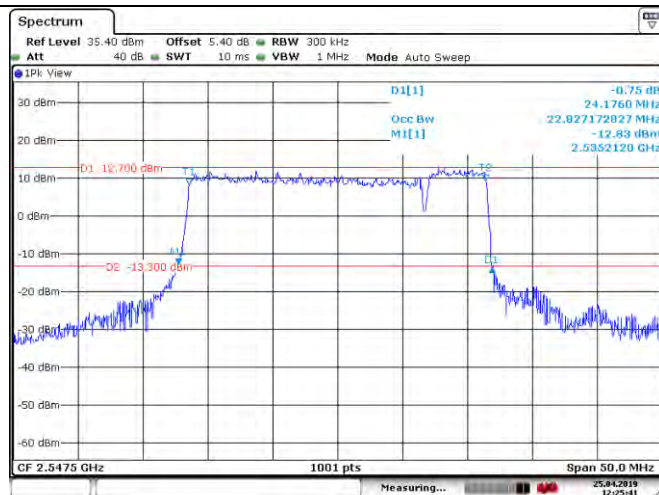


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Testing Laboratory)

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

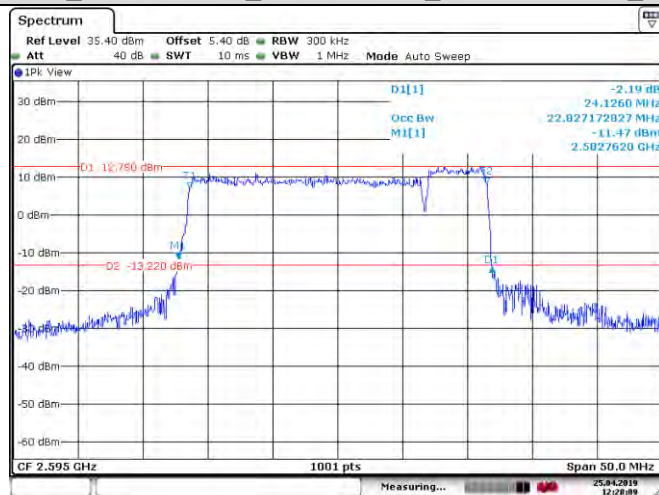
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 25 APR 2019 12:25:41

CA_41C_16QAM_100RB+25RB_40615+40732_PCC:100RB@0_SCC:25RB@0



Date: 25 APR 2019 12:28:09

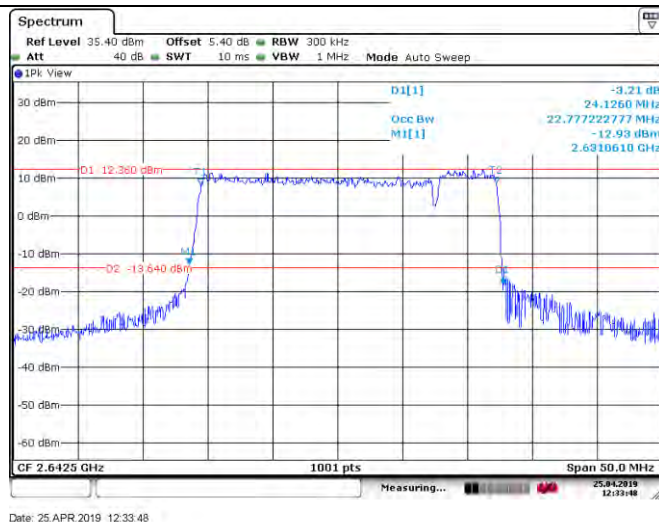
CA_41C_16QAM_100RB+25RB_41090+41207_PCC:100RB@0_SCC:25RB@0



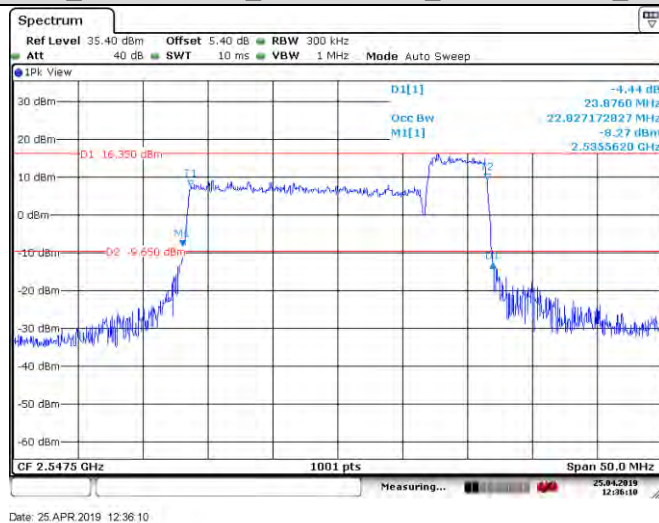
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Technical Services Laboratory

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

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



CA 41C 16QAM 25RB+100RB 40257+40140 PCC:25RB@0 SCC:100RB@0



CA 41C 16QAM 25RB+100RB 40732+40615 PCC:25RB@0 SCC:100RB@0

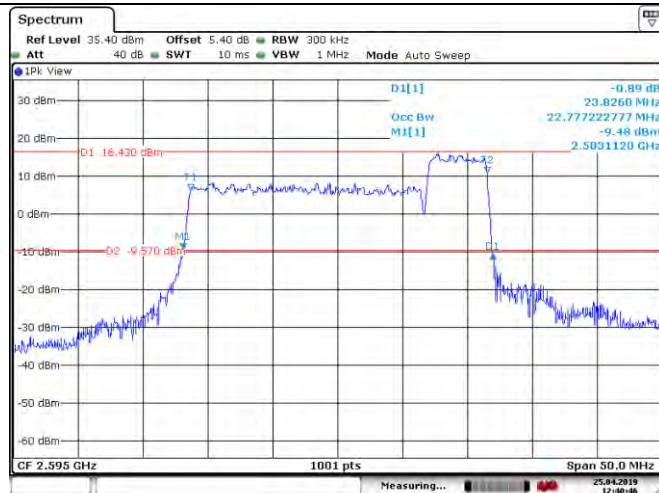


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (China) (Formerly SCS Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or used in full or in part without the prior written consent of the Company. Any unlawful 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.

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



Date: 25 APR 2019 12:40:46

CA_41C_16QAM_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 12:46:04

CA_41C_64QAM_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0

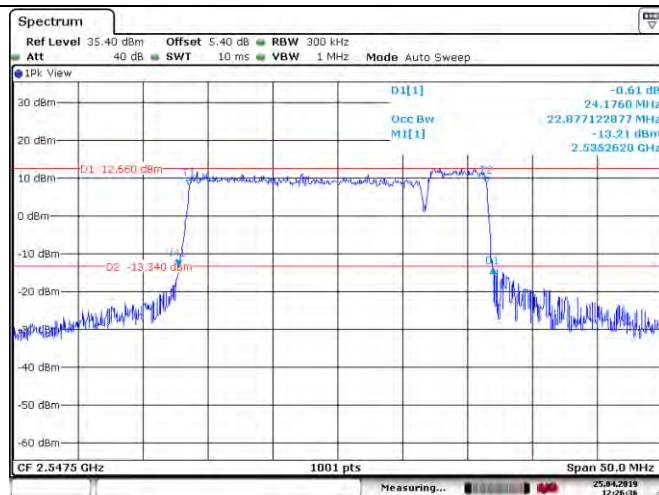


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China)

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.

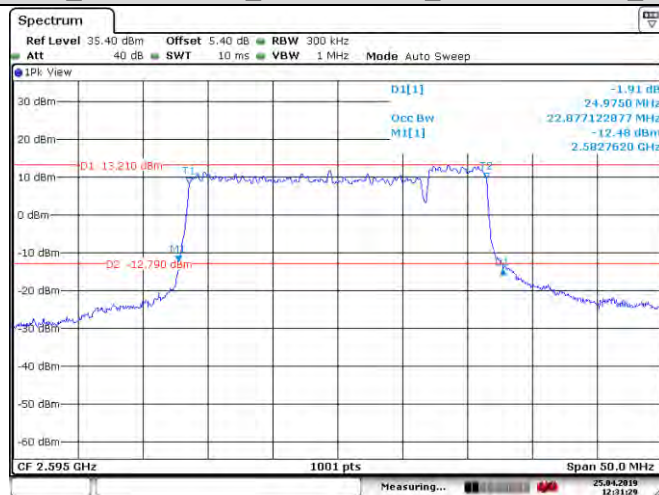
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 25 APR 2019 12:26:36

CA_41C_64QAM_100RB+25RB_40615+40732_PCC:100RB@0_SCC:25RB@0



Date: 25 APR 2019 12:31:30

CA_41C_64QAM_100RB+25RB_41090+41207_PCC:100RB@0_SCC:25RB@0

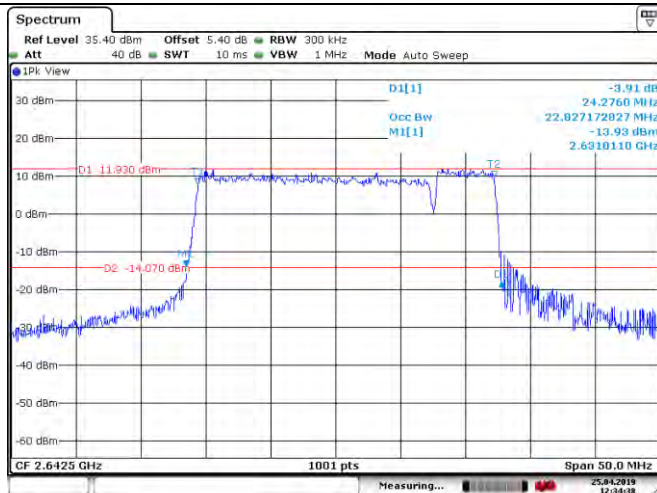


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Testing Laboratory)

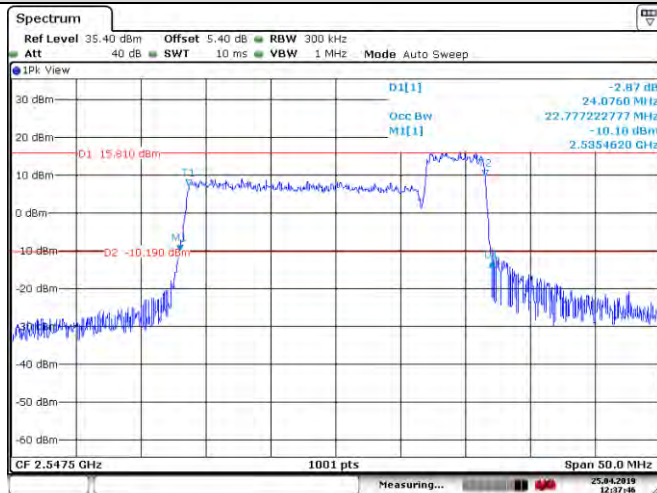
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

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

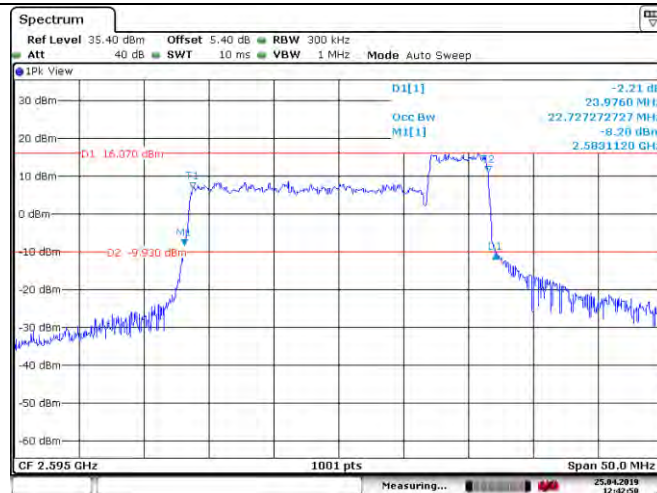


CA_41C_64QAM_25RB+100RB_40257+40140_PCC:25RB@0_SCC:100RB@0



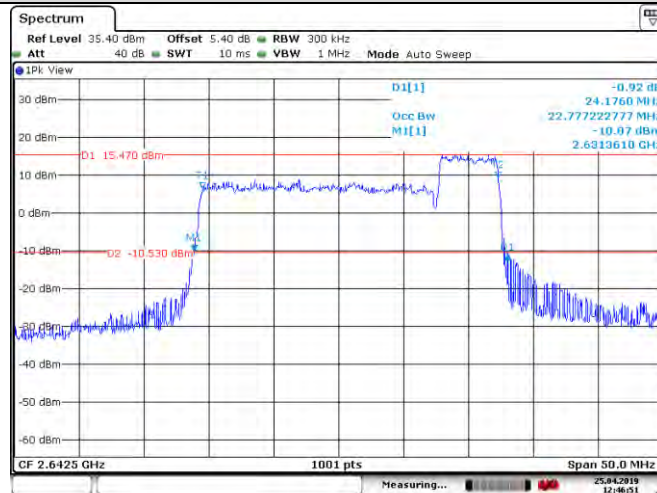
CA_41C_64QAM_25RB+100RB_40732+40615_PCC:25RB@0_SCC:100RB@0





Date: 25 APR 2019 12:42:51

CA_41C_64QAM_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 12:46:51

CA_41C_QPSK_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0

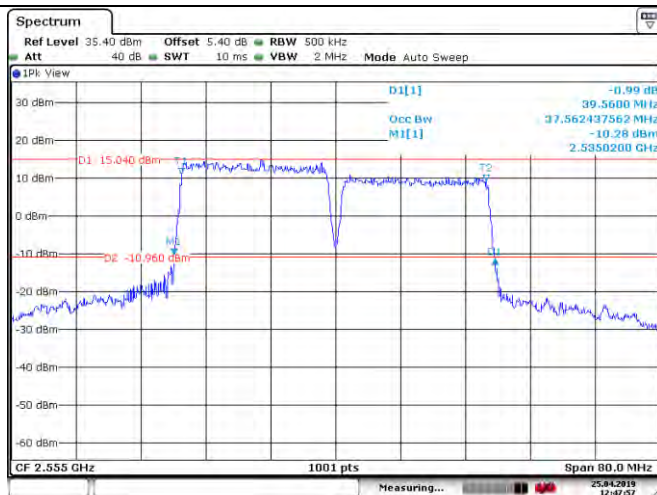


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (M-10) Test Lab

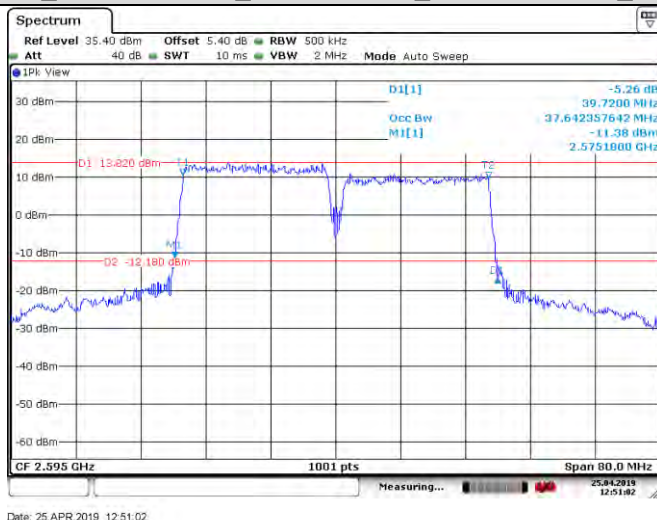
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

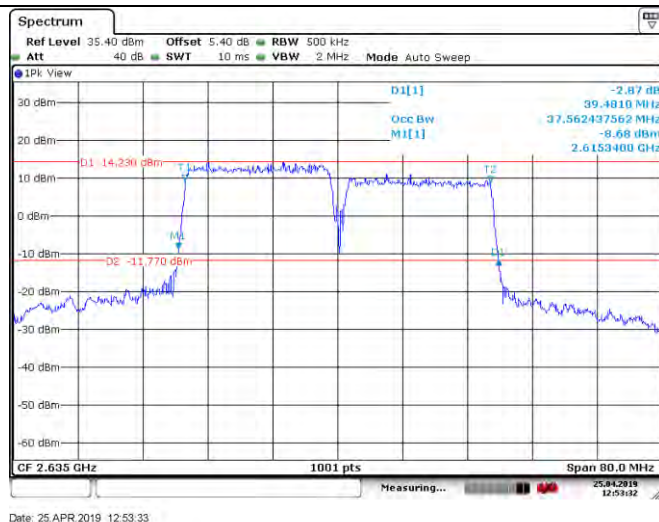


CA_41C_QPSK_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



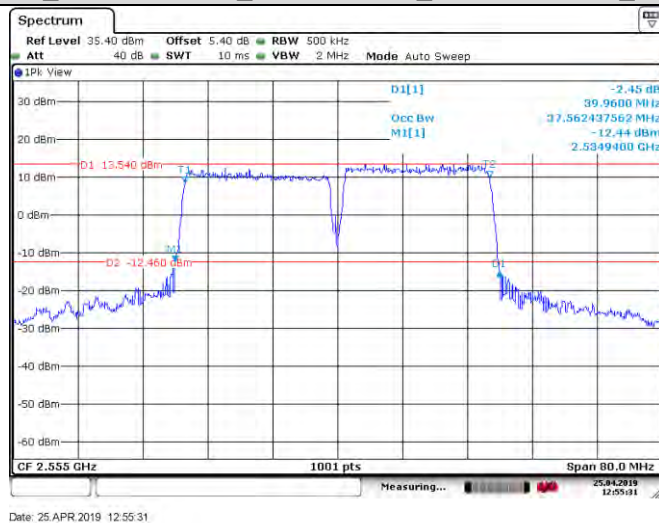
CA_41C_QPSK_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 12:53:33

CA 41C QPSK 100RB+100RB 40338+40140 PCC:100RB@0 SCC:100RB@0



Date: 25 APR 2019 12:55:31

CA 41C QPSK 100RB+100RB 40739+40541 PCC:100RB@0 SCC:100RB@0



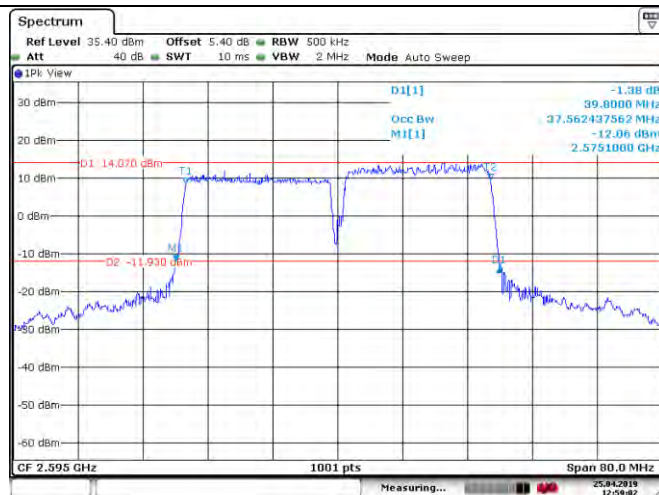
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (China) (Formerly SCS Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced or further disseminated in full or in part by the Company. Any unlawful use, 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.

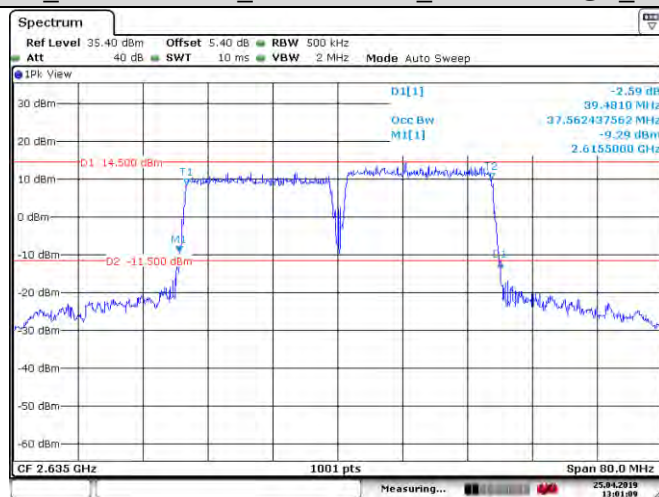
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Date: 25 APR 2019 12:59:02

CA_41C_QPSK_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 13:01:09

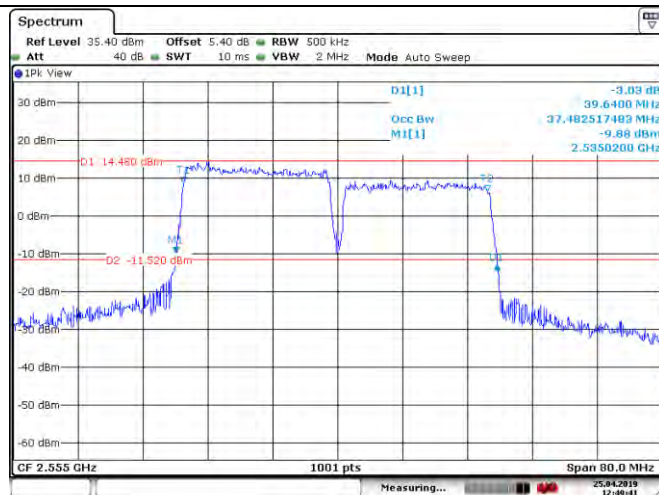
CA_41C_16QAM_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0



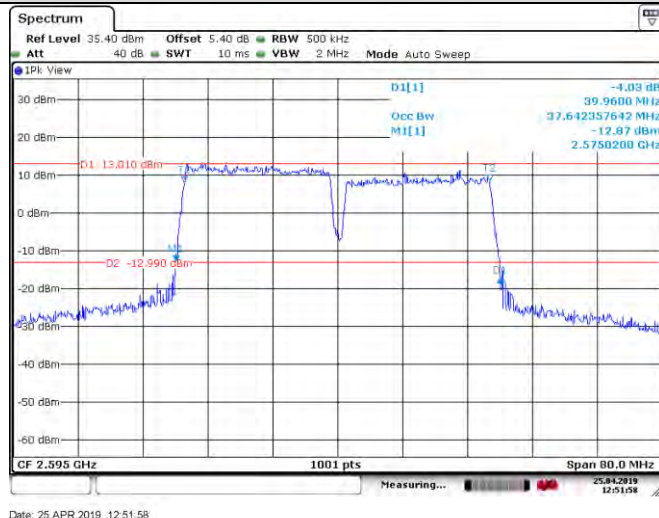
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public Testing) EMC Laboratory

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

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

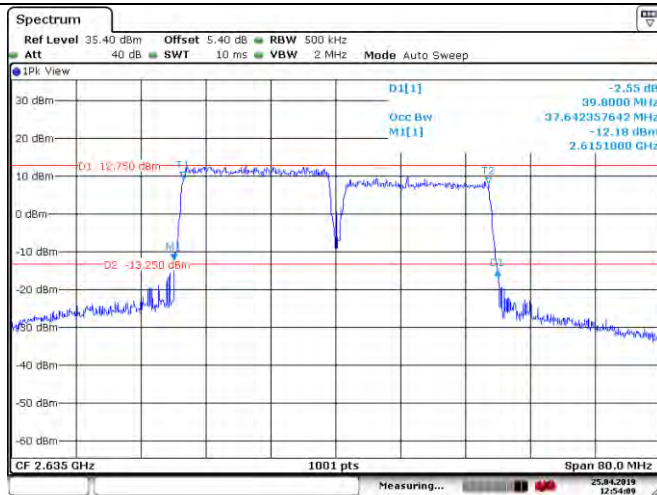


CA_41C_16QAM_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



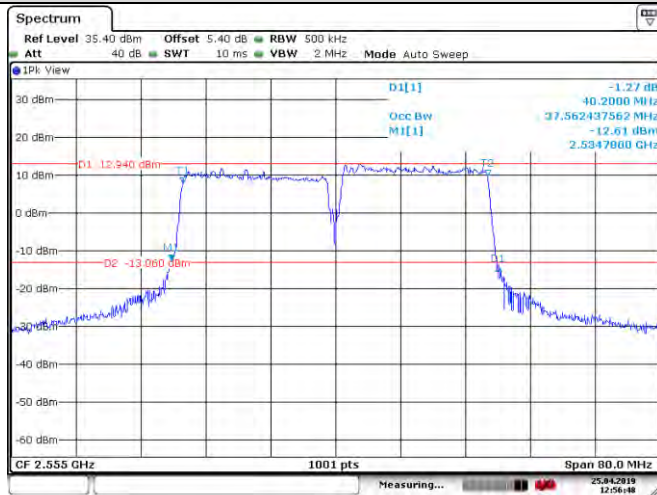
CA_41C_16QAM_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 12:54:09

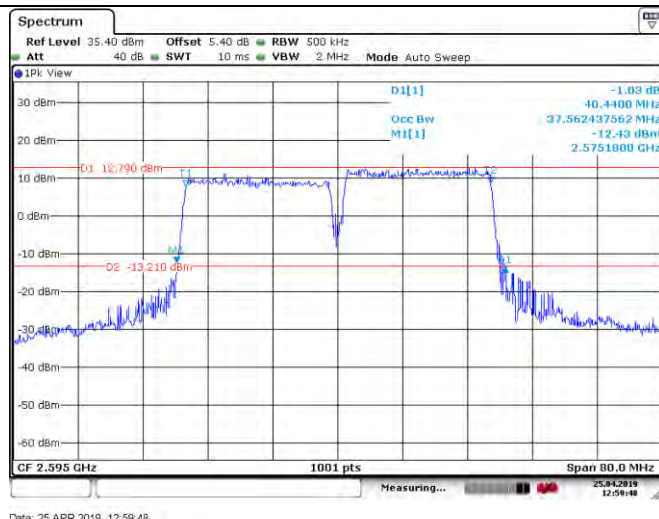
CA_41C_16QAM_100RB+100RB_40338+40140_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 12:56:48

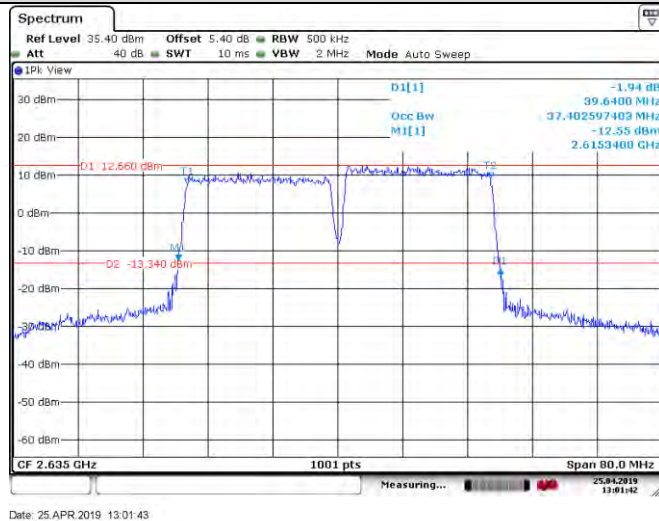
CA_41C_16QAM_100RB+100RB_40739+40541_PCC:100RB@0_SCC:100RB@0





Date: 25 APR 2019 12:59:48

CA 41C 16QAM 100RB+100RB 41140+40942 PCC:100RB@0 SCC:100RB@0



Date: 25 APR 2019 13:01:43

CA 41C 64QAM 100RB+100RB 40140+40338 PCC:100RB@0 SCC:100RB@0



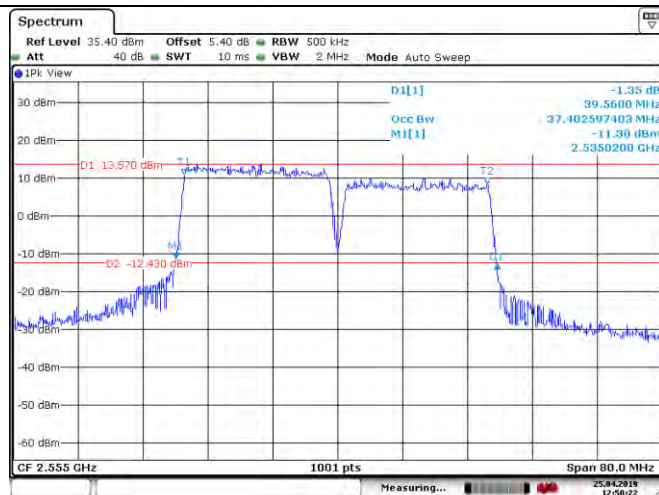
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (China) (Formerly SCS Laboratory)

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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 or copied in whole or in part without the prior written approval of the Company. Any reproduction, falsification or alteration 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, 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 1444.

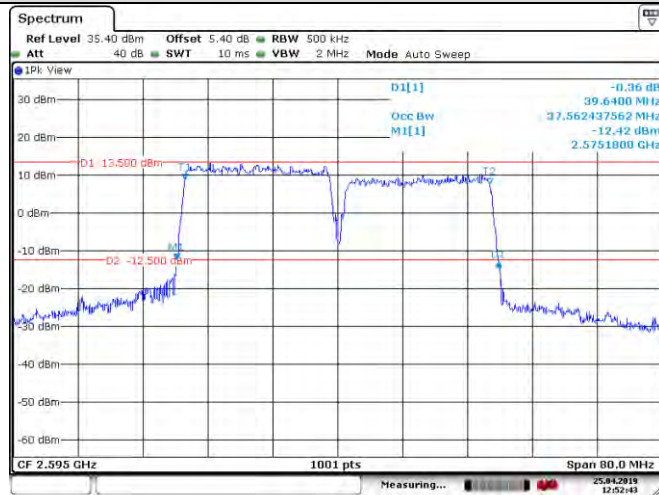
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Date: 25 APR 2019 12:50:22

CA_41C_64QAM_100RB+100RB_40541+40739_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 12:52:43

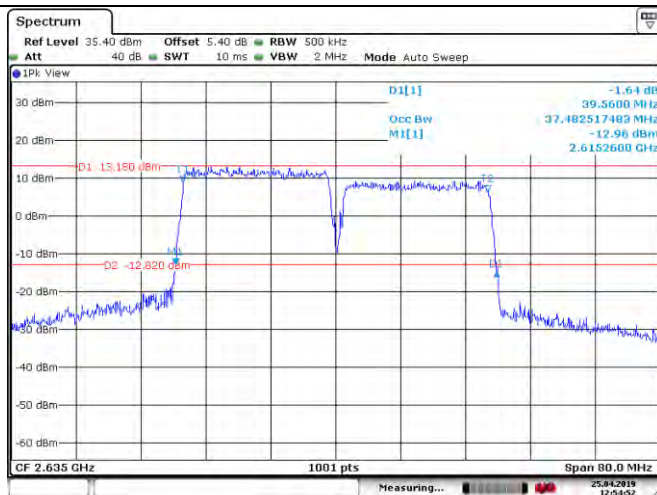
CA_41C_64QAM_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0



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

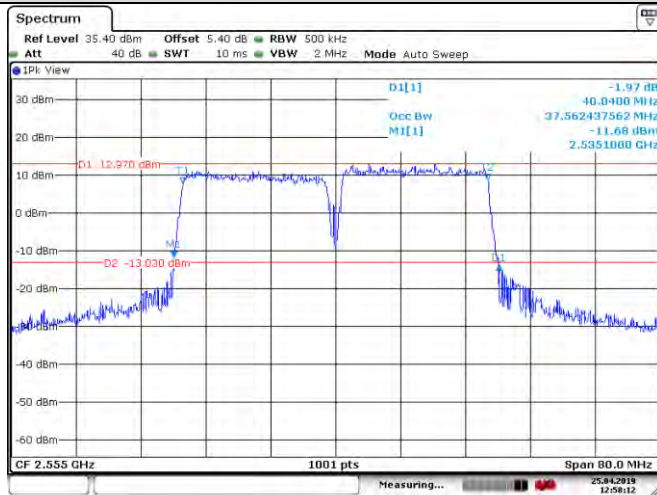
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 25 APR 2019 12:54:53

CA_41C_64QAM_100RB+100RB_40338+40140_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 12:58:13

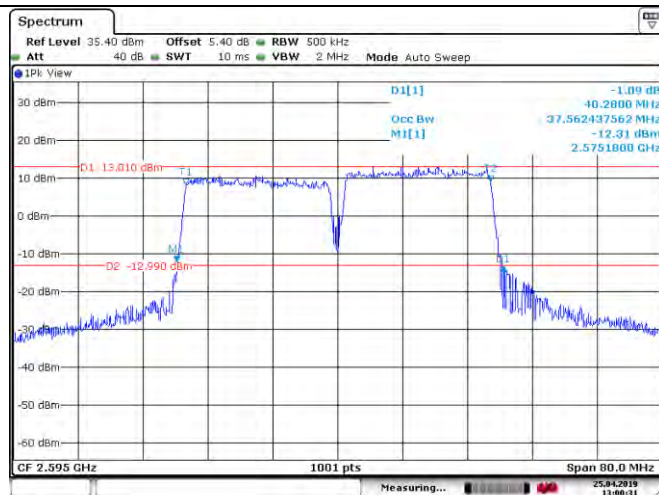
CA_41C_64QAM_100RB+100RB_40739+40541_PCC:100RB@0_SCC:100RB@0



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

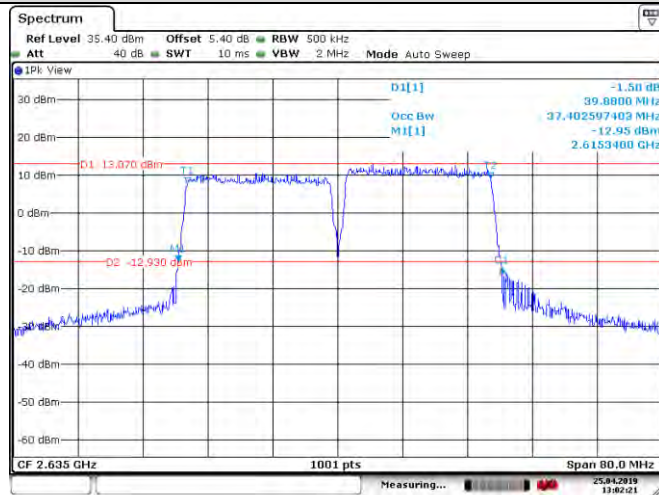
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



Date: 25 APR 2019 13:00:32

CA_41C_64QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 13:02:21



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

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

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

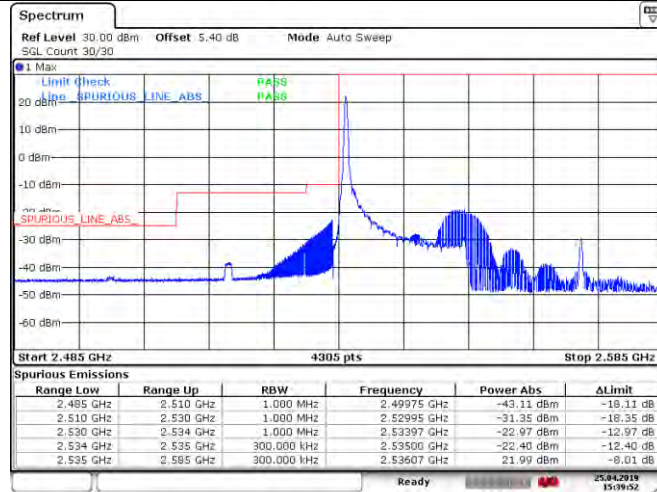


5 Band Edges Compliance

5.1 For LTE

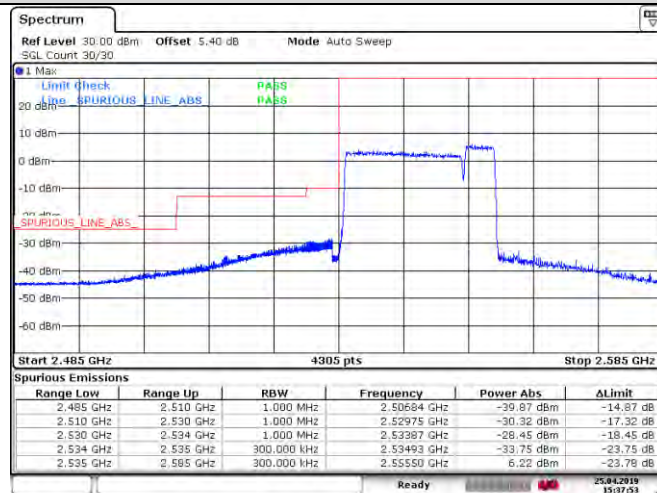
5.1.1 Test Band = LTE Band CA_41C

CA_41C_QPSK_100RB+25RB_40140+40257_PCC:1RB@0_SCC:0RB@0



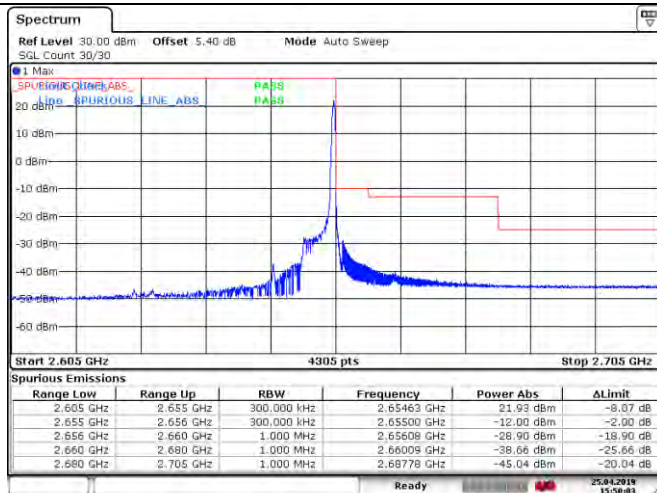
Date: 25 APR 2019 15:39:52

CA_41C_QPSK_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0



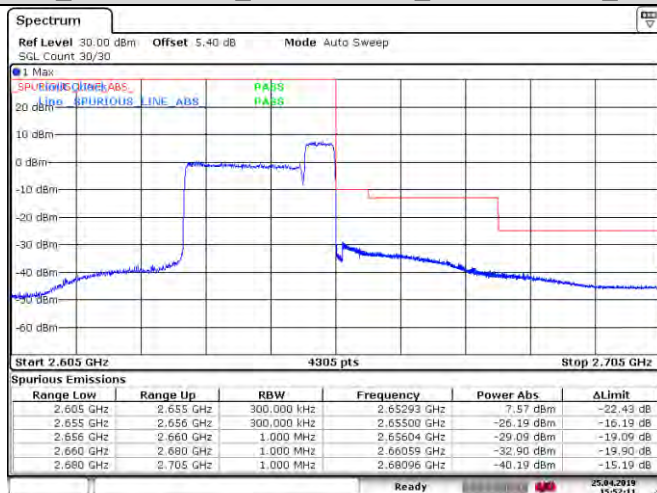
Date: 25 APR 2019 15:37:54

CA_41C_QPSK_25RB+100RB_41207+41090_PCC:1RB@24_SCC:0RB@0



Date: 25 APR 2019 15:50:03

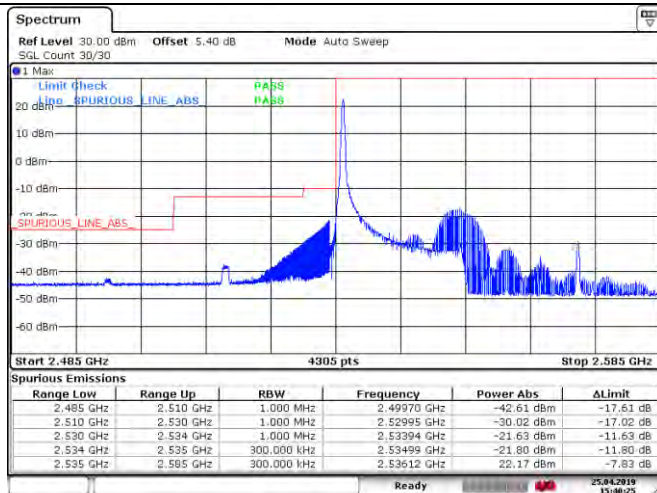
CA_41C_QPSK_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 15:52:11

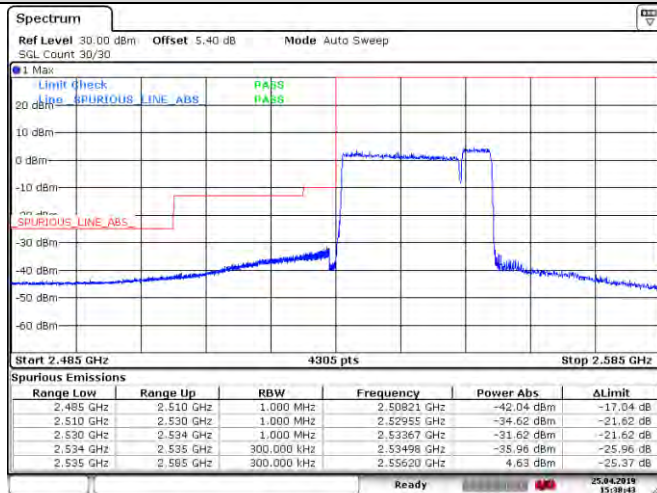
CA_41C_16QAM_100RB+25RB_40140+40257_PCC:1RB@0_SCC:0RB@0





Date: 25 APR 2019 15:40:25

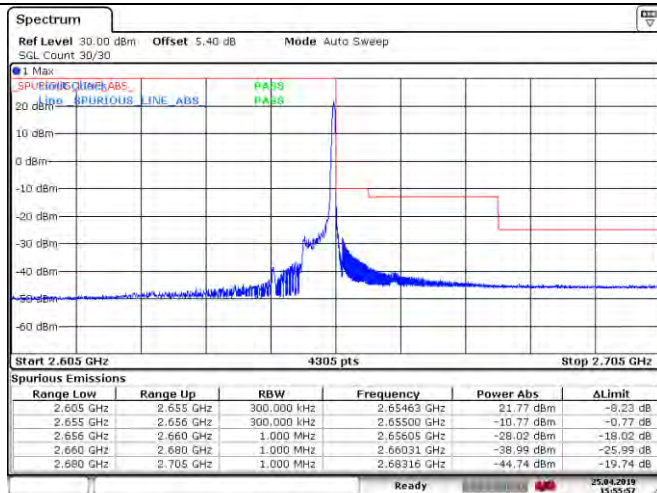
CA_41C_16QAM_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0



Date: 25 APR 2019 15:38:44

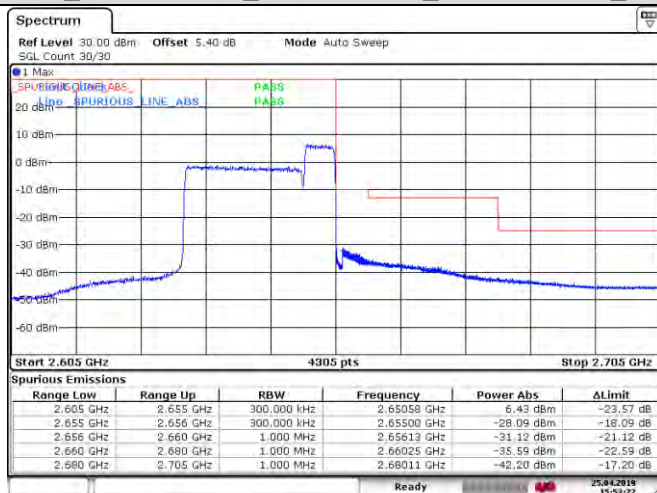
CA_41C_16QAM_25RB+100RB_41207+41090_PCC:1RB@24_SCC:0RB@0





Date: 25 APR 2019 15:55:58

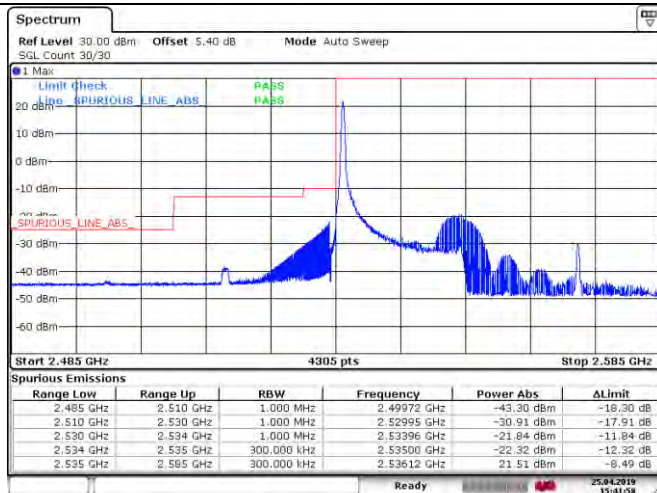
CA_41C_16QAM_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 15:53:23

CA_41C_64QAM_100RB+25RB_40140+40257_PCC:1RB@0_SCC:0RB@0





Date: 25 APR 2019 15:41:58

CA_41C_64QAM_100RB+25RB_40140+40257_PCC:100RB@0_SCC:25RB@0



Date: 25 APR 2019 15:39:14

CA_41C_64QAM_25RB+100RB_41207+41090_PCC:1RB@24_SCC:0RB@0

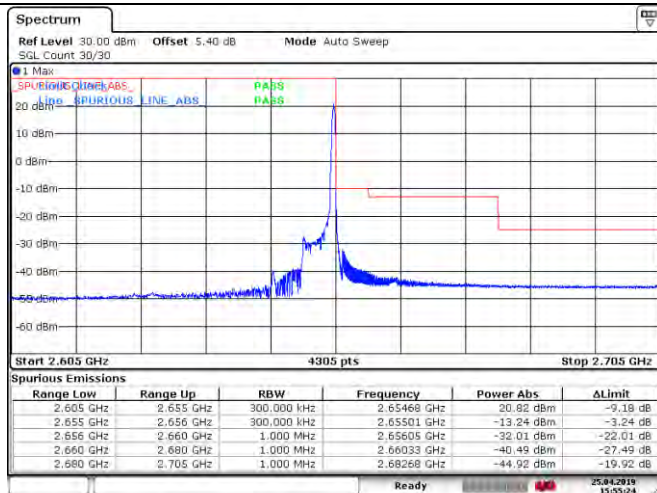


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Public) EMC Laboratory

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

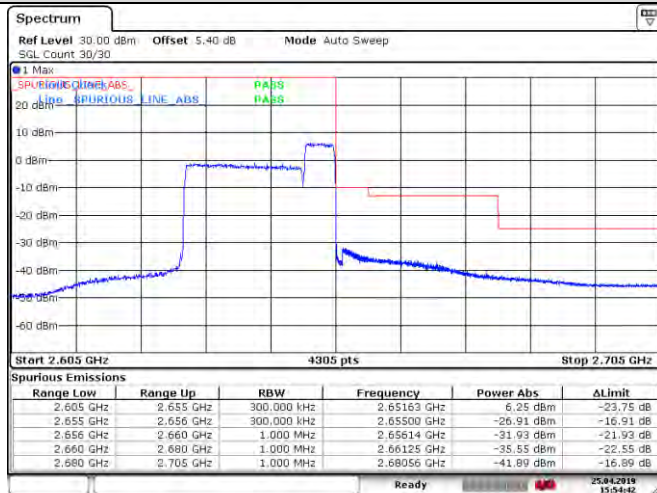
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 25 APR 2019 15:55:24

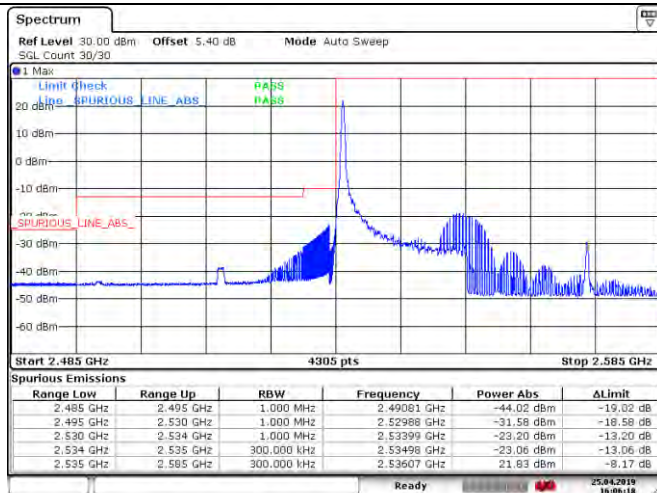
CA_41C_64QAM_25RB+100RB_41207+41090_PCC:25RB@0_SCC:100RB@0



Date: 25 APR 2019 15:54:43

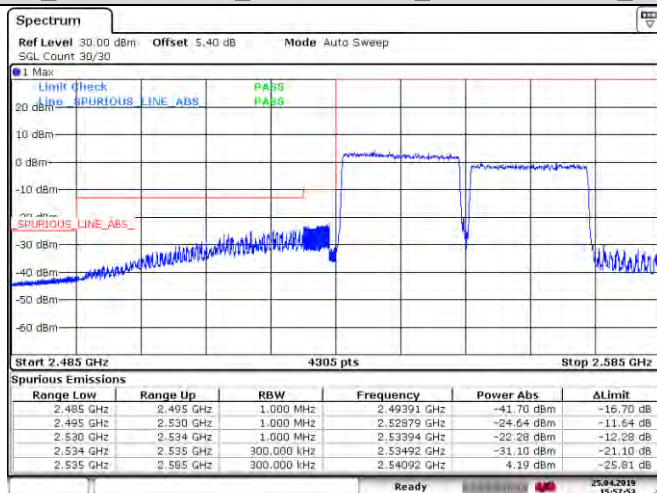
CA_41C_QPSK_100RB+100RB_40140+40338_PCC:1RB@0_SCC:0RB@0





Date: 25 APR 2019 16:06:19

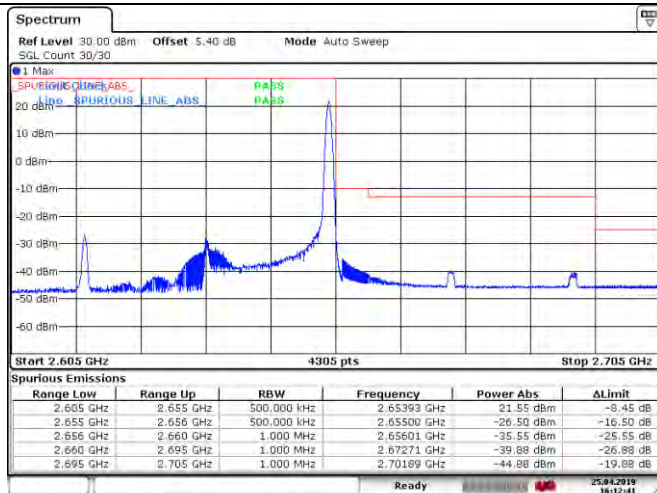
CA_41C_QPSK_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 15:57:54

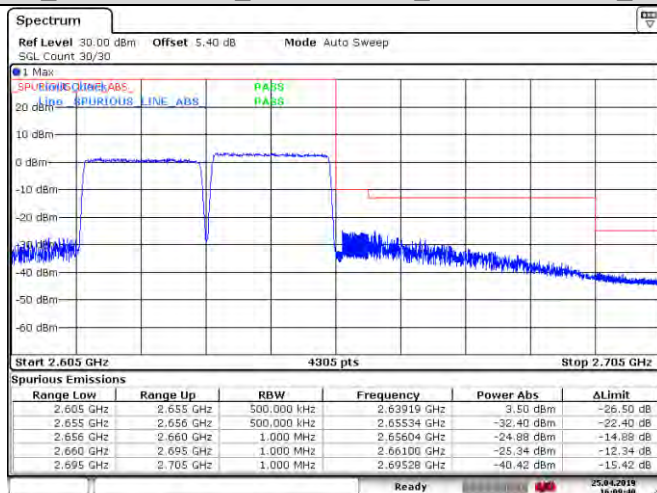
CA_41C_QPSK_100RB+100RB_41140+40942_PCC:1RB@99_SCC:0RB@0





Date: 25 APR 2019 16:12:42

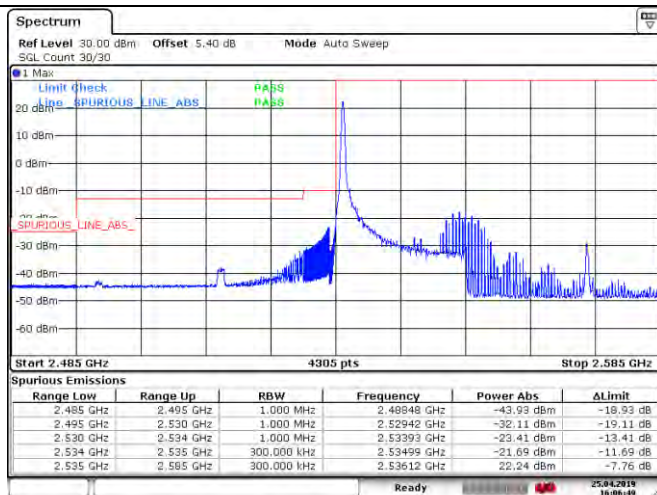
CA_41C_QPSK_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



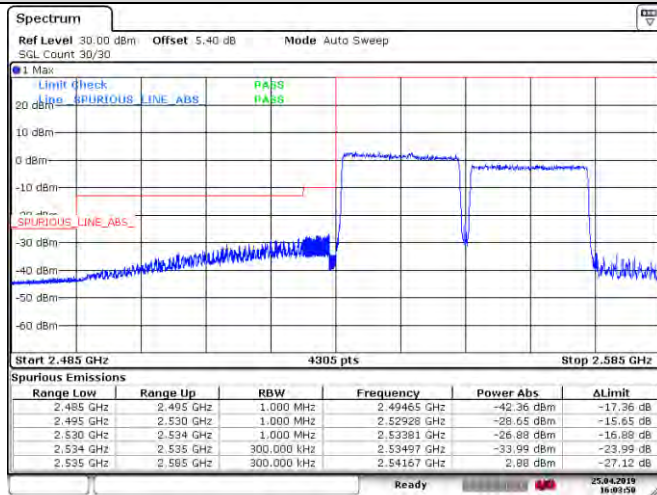
Date: 25 APR 2019 16:08:40

CA_41C_16QAM_100RB+100RB_40140+40338_PCC:1RB@0_SCC:0RB@0



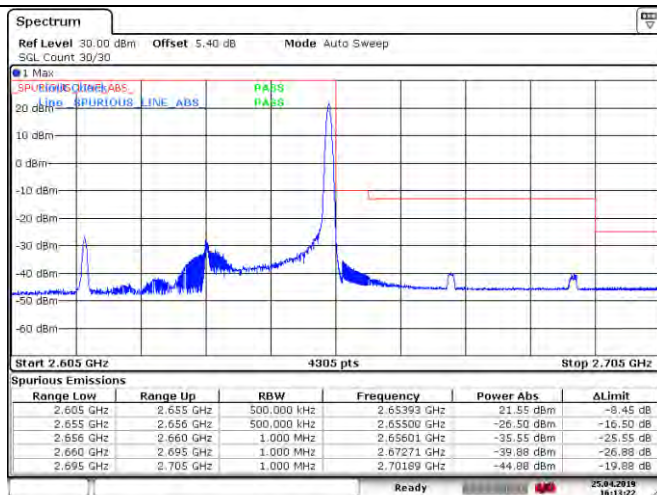


CA_41C_16QAM_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0



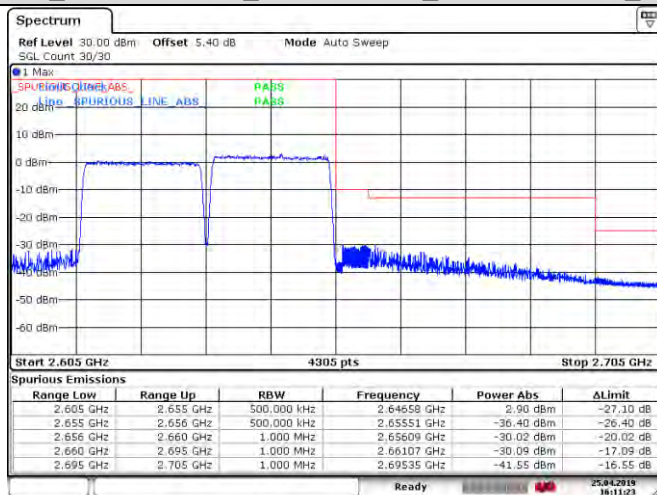
CA_41C_16QAM_100RB+100RB_41140+40942_PCC:1RB@99_SCC:0RB@0





Date: 25 APR 2019 16:13:22

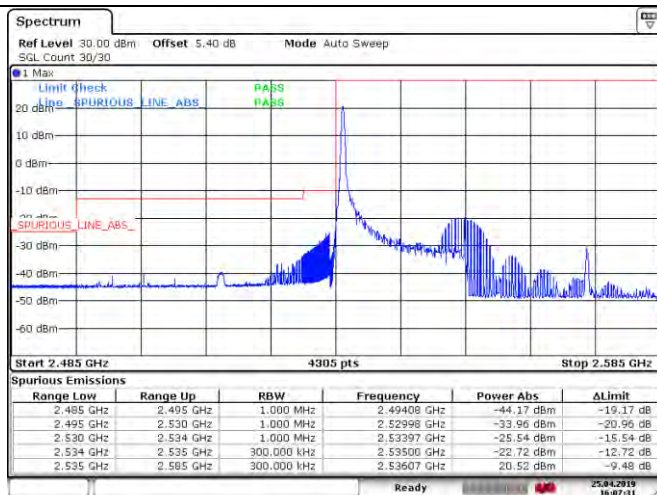
CA_41C_16QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 16:11:24

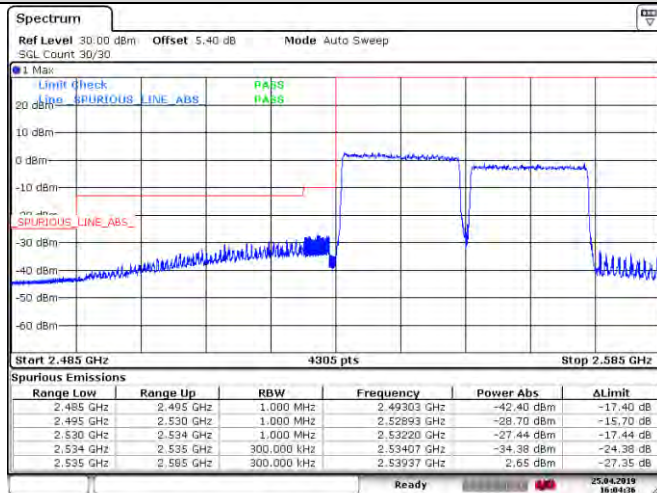
CA_41C_64QAM_100RB+100RB_40140+40338_PCC:1RB@0_SCC:0RB@0





Date: 25 APR 2019 16:07:31

CA_41C_64QAM_100RB+100RB_40140+40338_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 16:04:36

CA_41C_64QAM_100RB+100RB_41140+40942_PCC:1RB@99_SCC:0RB@0



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

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

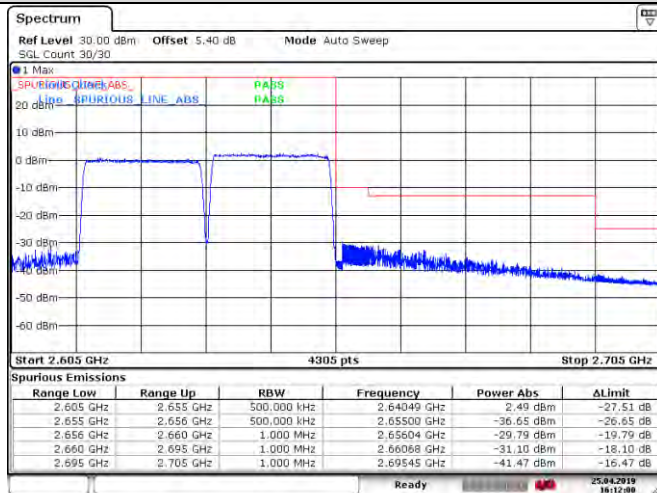
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Date: 25 APR 2019 16:14:16

CA_41C_64QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0



Date: 25 APR 2019 16:12:00



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

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

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

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

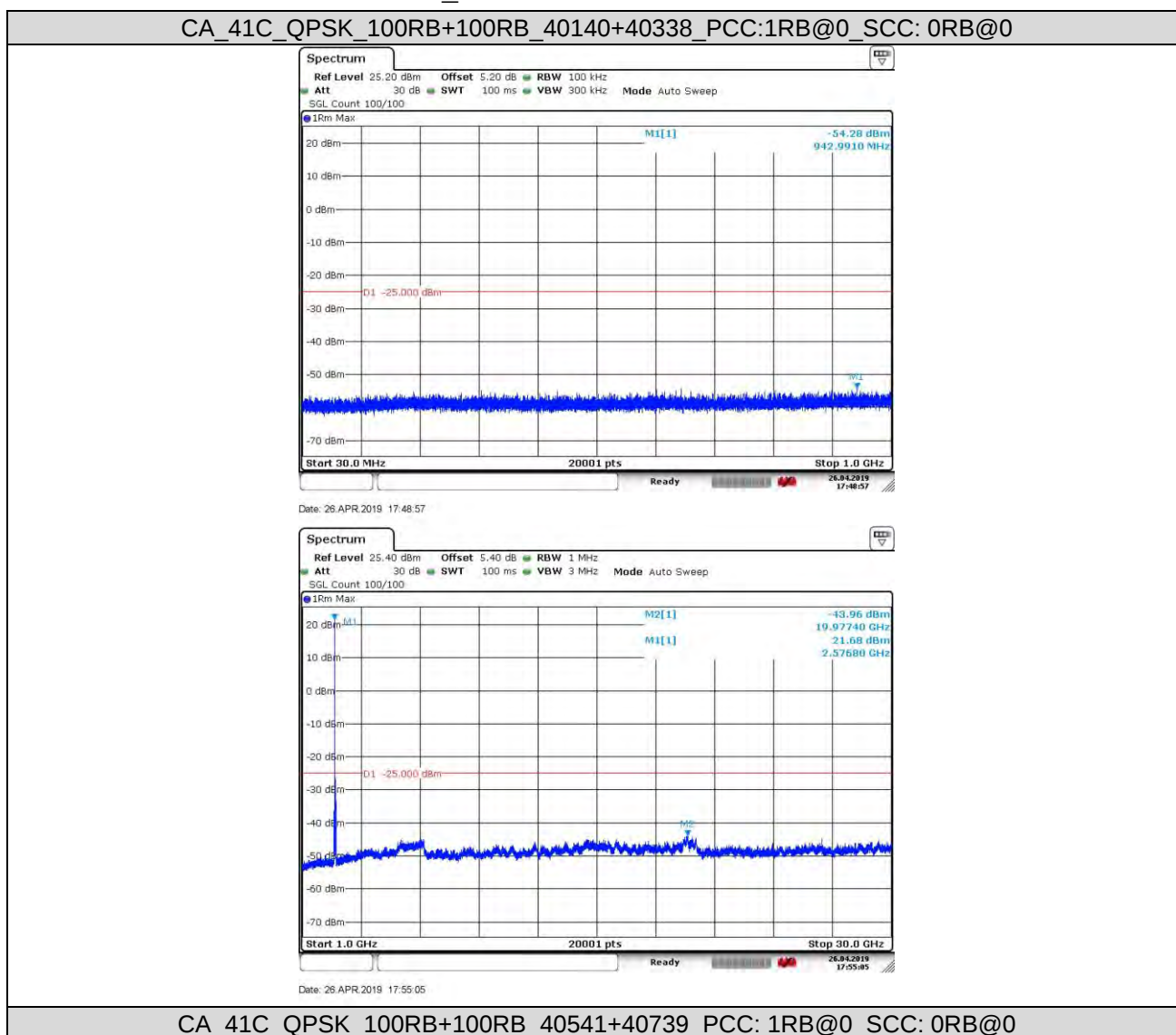
6 Spurious Emission at Antenna Terminal

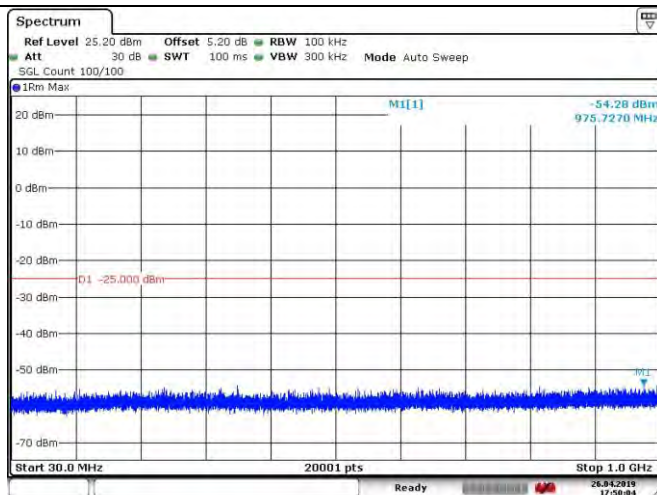
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k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

Part I - Test Plots

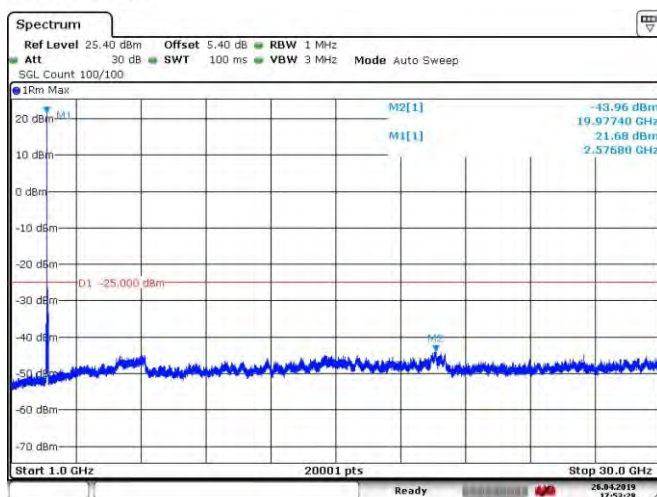
6.1 For LTE

6.1.1 Test Band = LTE Band CA_41C



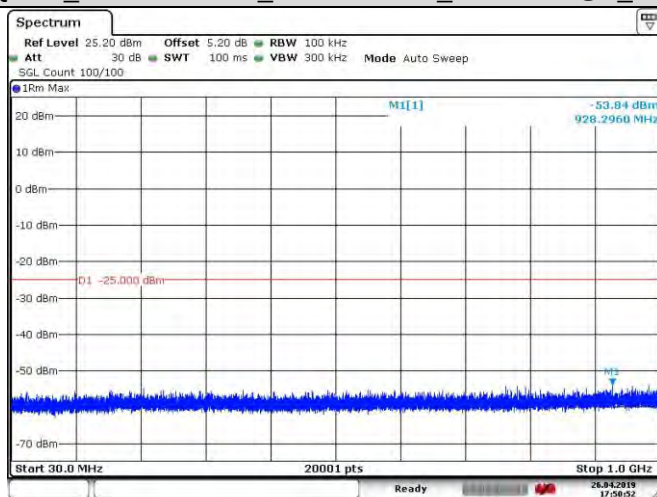


Date: 26 APR 2019 17:50:04



Date: 26 APR 2019 17:53:28

CA_41C_QPSK_100RB+100RB_40942+41140_PCC: 1RB@0_SCC: 0RB@0



Date: 26 APR 2019 17:50:53

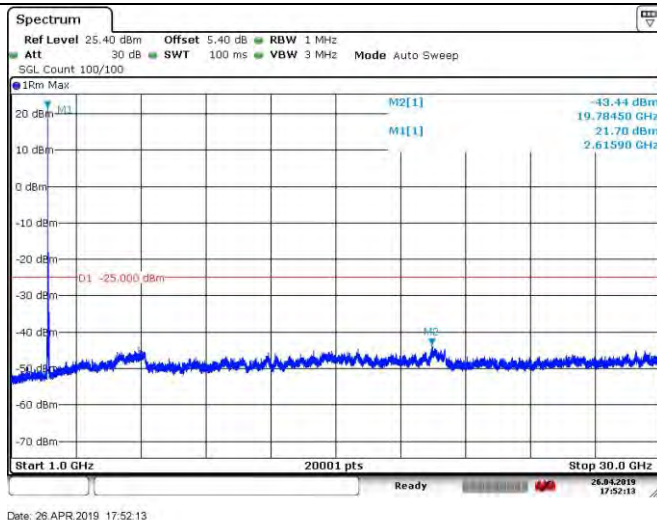


SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch (M-10) Testing Laboratory

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

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

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



Date: 26 APR 2019 17:52:13



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

7 Field Strength of Spurious Radiation

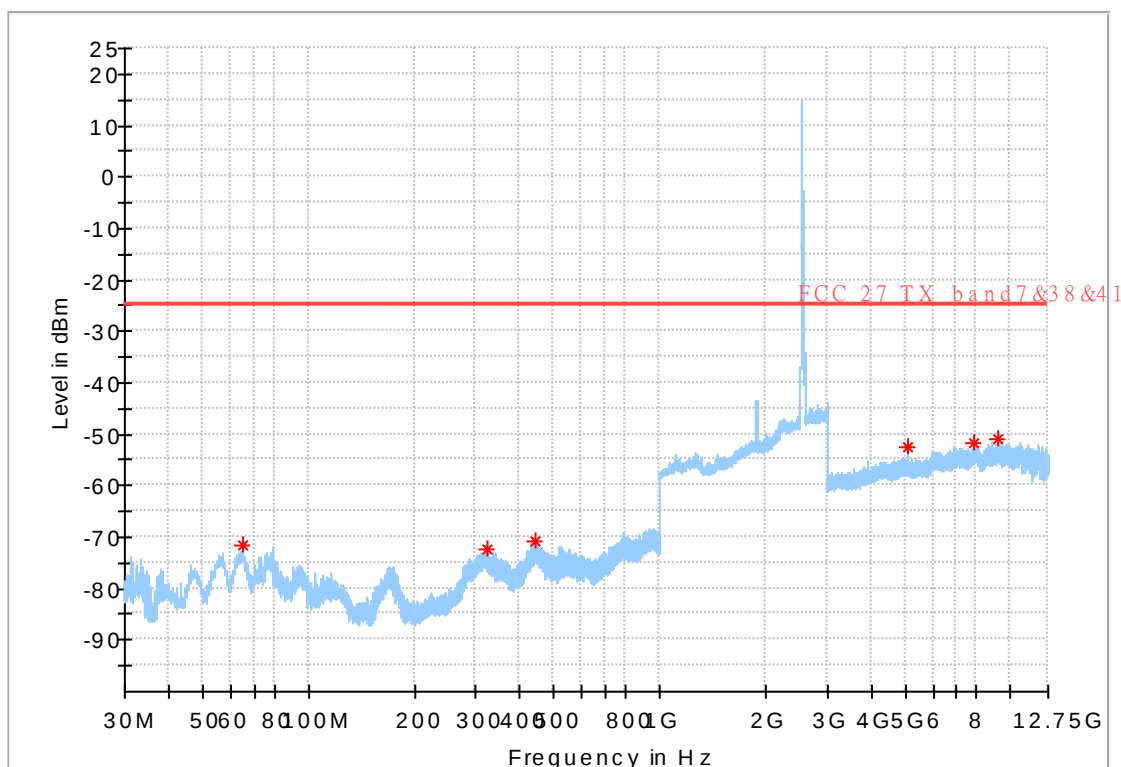
7.1 For LTE

7.1.1 Test Band = LTE Band CA_41C (Down Antenna)

7.1.1.1 Test Mode =LTE/QPSK

7.1.1.1.1 Test Channel = LCH_Vertical

Full Spectrum



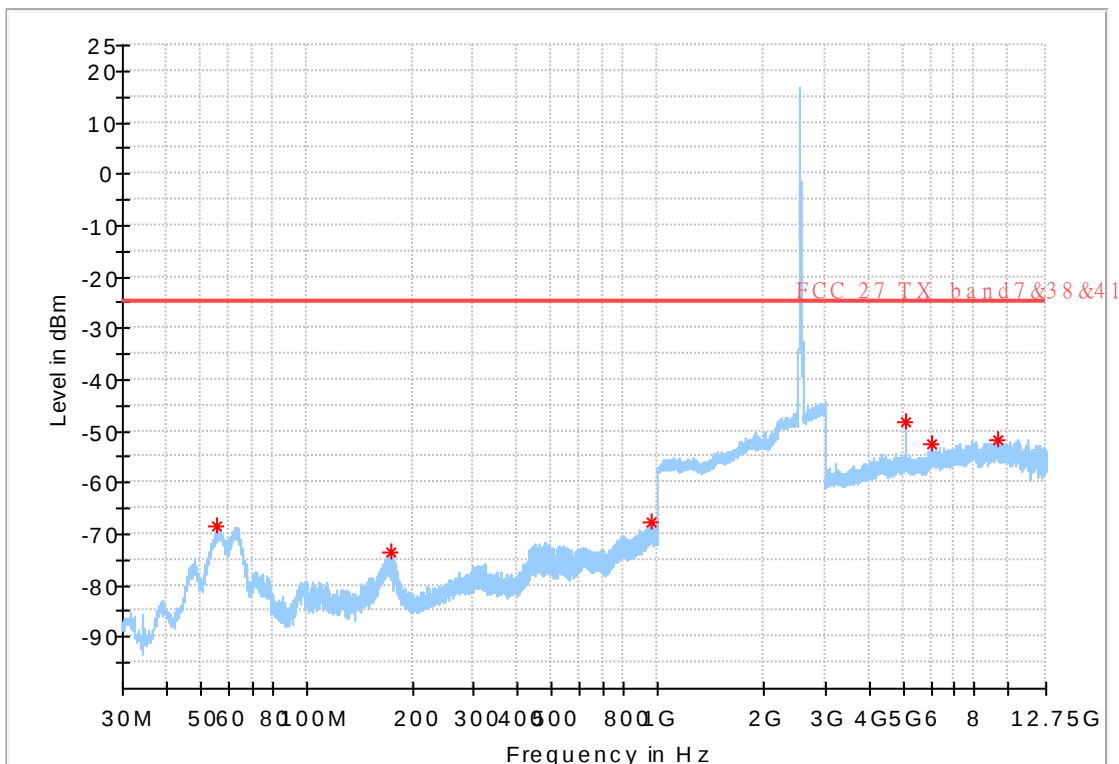
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Testing Laboratory

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

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

7.1.1.1.2 Test Channel = LCH_Horizontal

Full Spectrum



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.

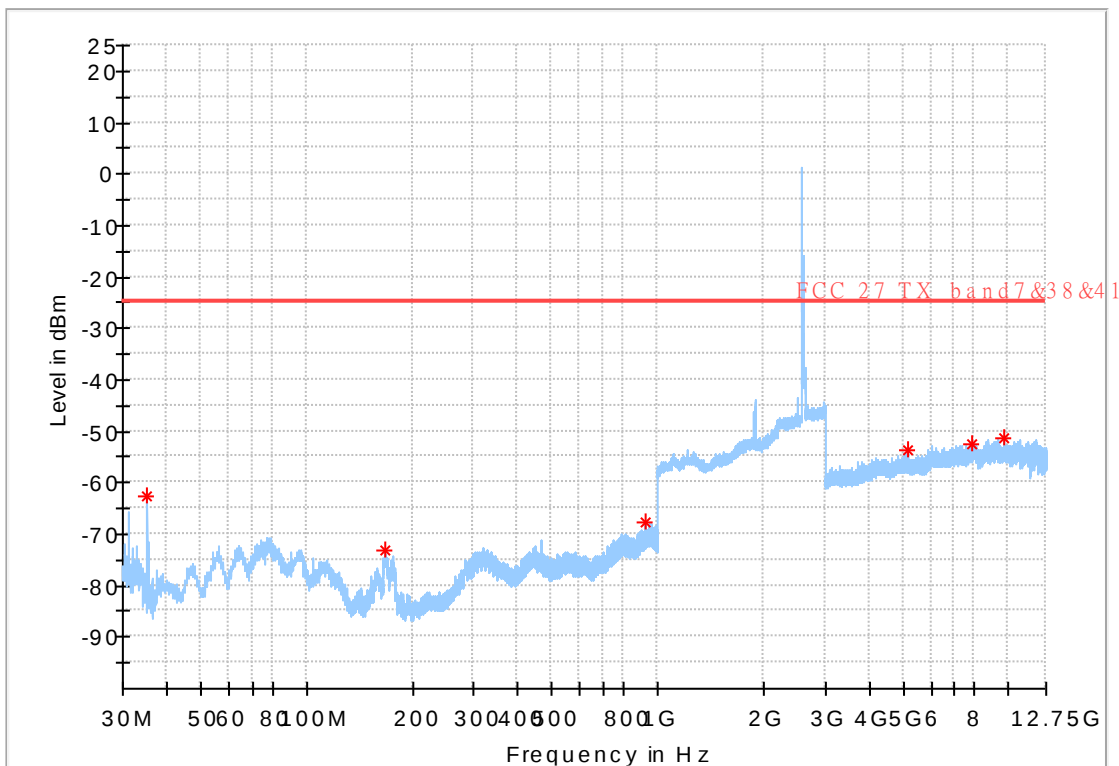
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.1.1.3 Test Channel = MCH_Vertical

Full Spectrum



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.

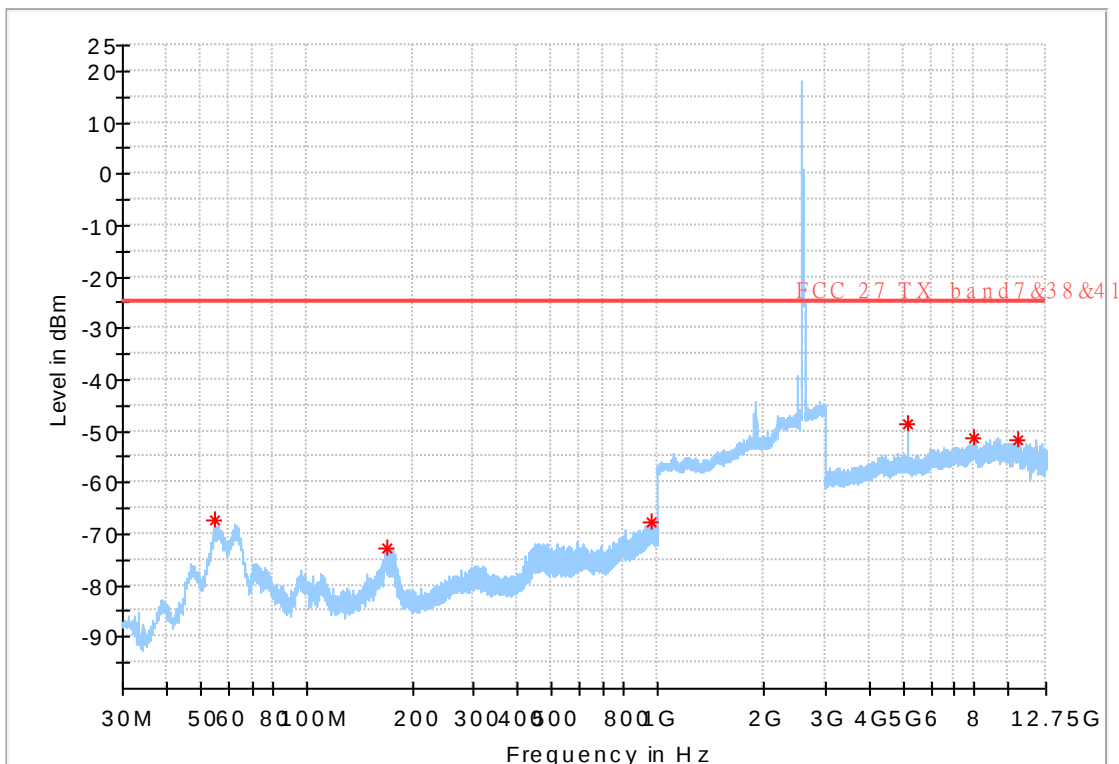
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.1.1.4 Test Channel = MCH _Horizontal

Full Spectrum



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.

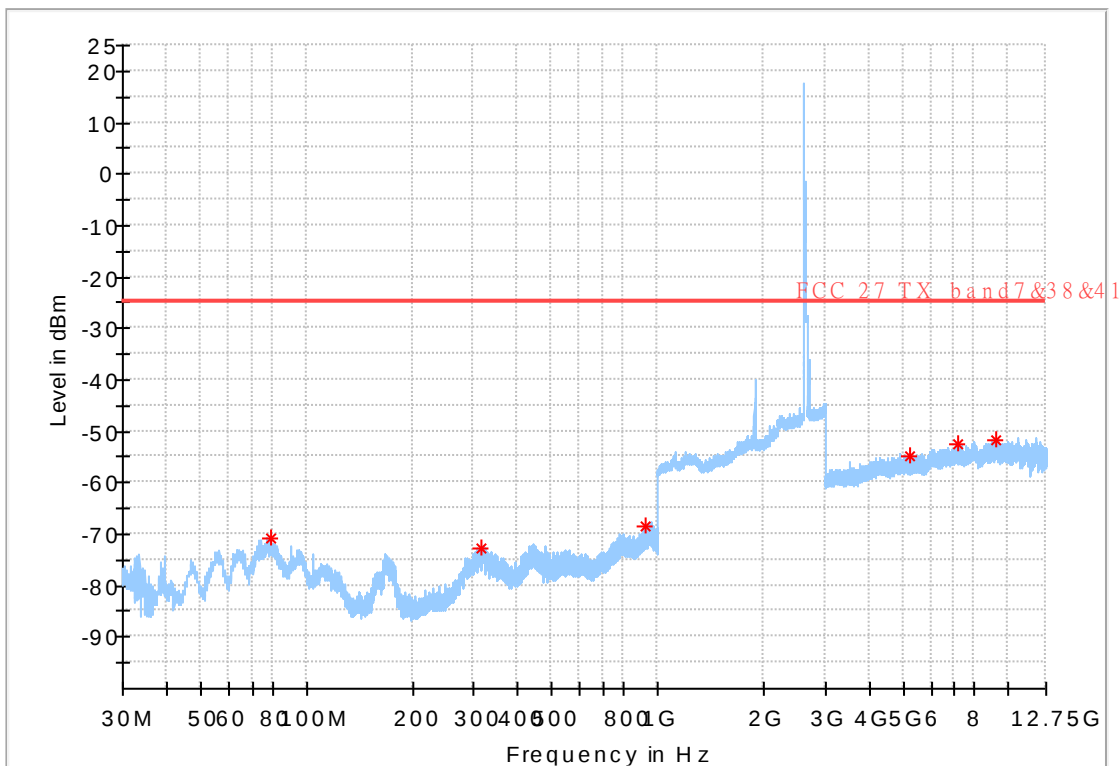
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.1.1.5 Test Channel = HCH _Vertical

Full Spectrum



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.

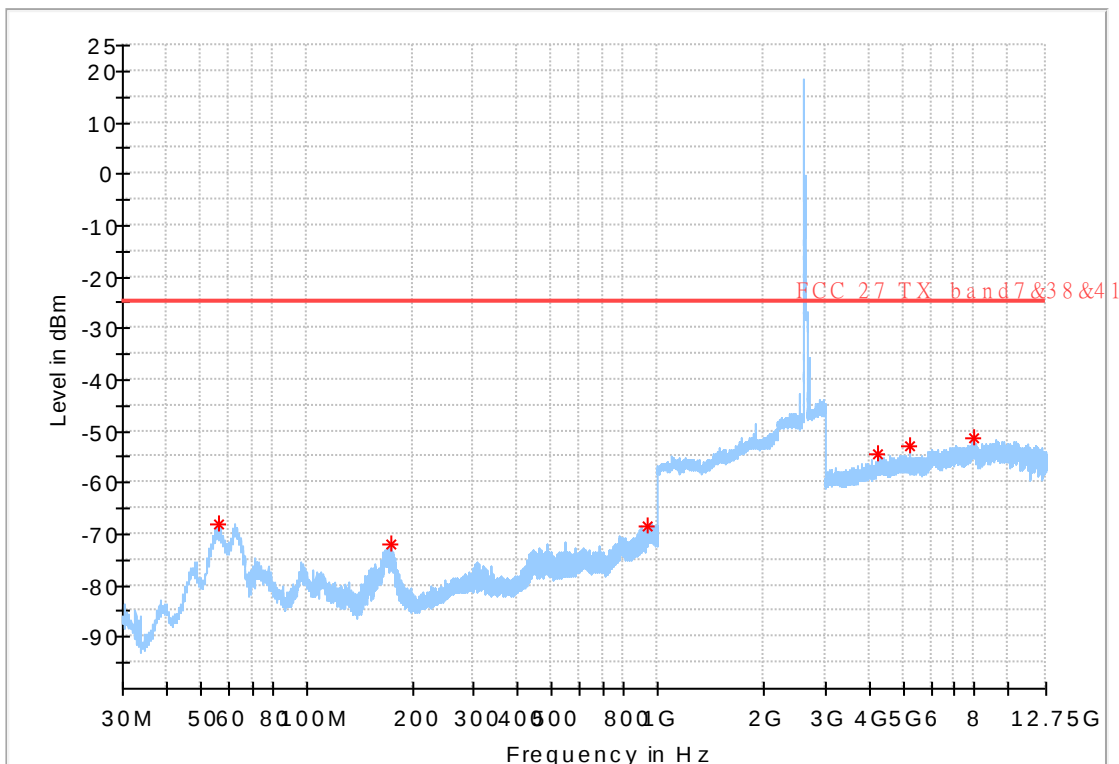
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.1.1.6 Test Channel = HCH _Horizontal

Full Spectrum



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 (Internal Testing Laboratory)

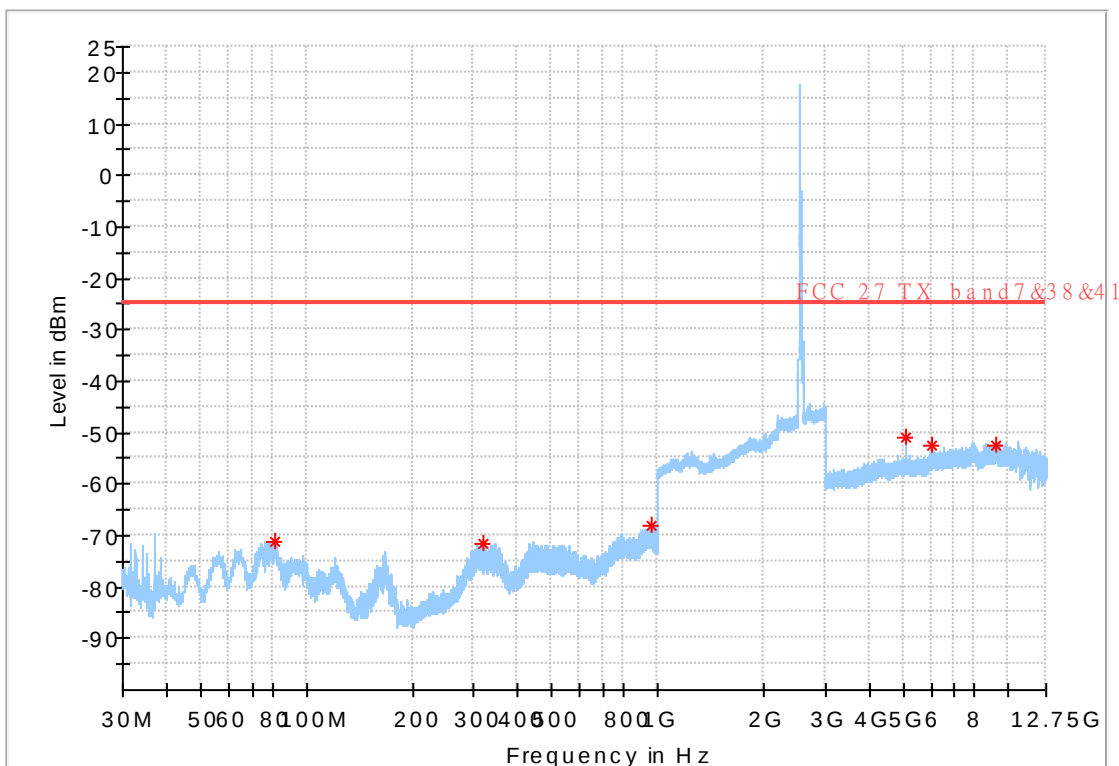
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.1.2 Test Band = LTE Band CA_41C (Up Antenna)

7.1.2.1 Test Mode =LTE/QPSK

7.1.2.1.1 Test Channel = LCH _Vertical

Full Spectrum



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.

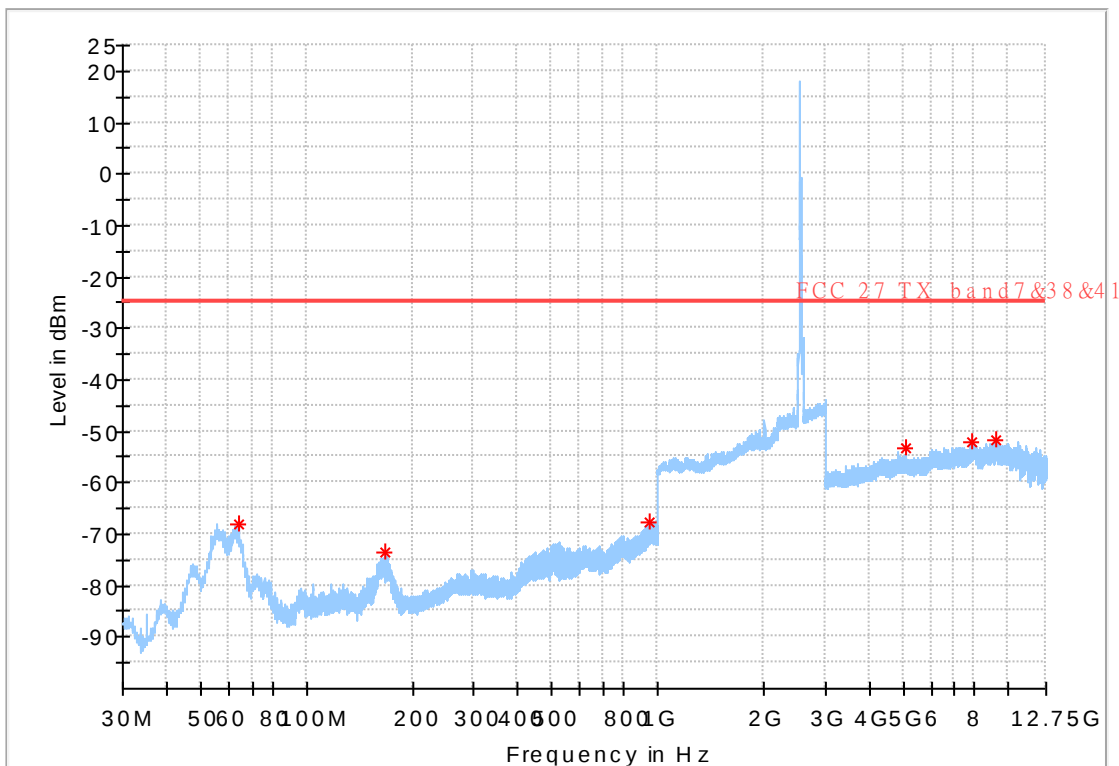
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.2.1.2 Test Channel = LCH_Horizontal

Full Spectrum



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.

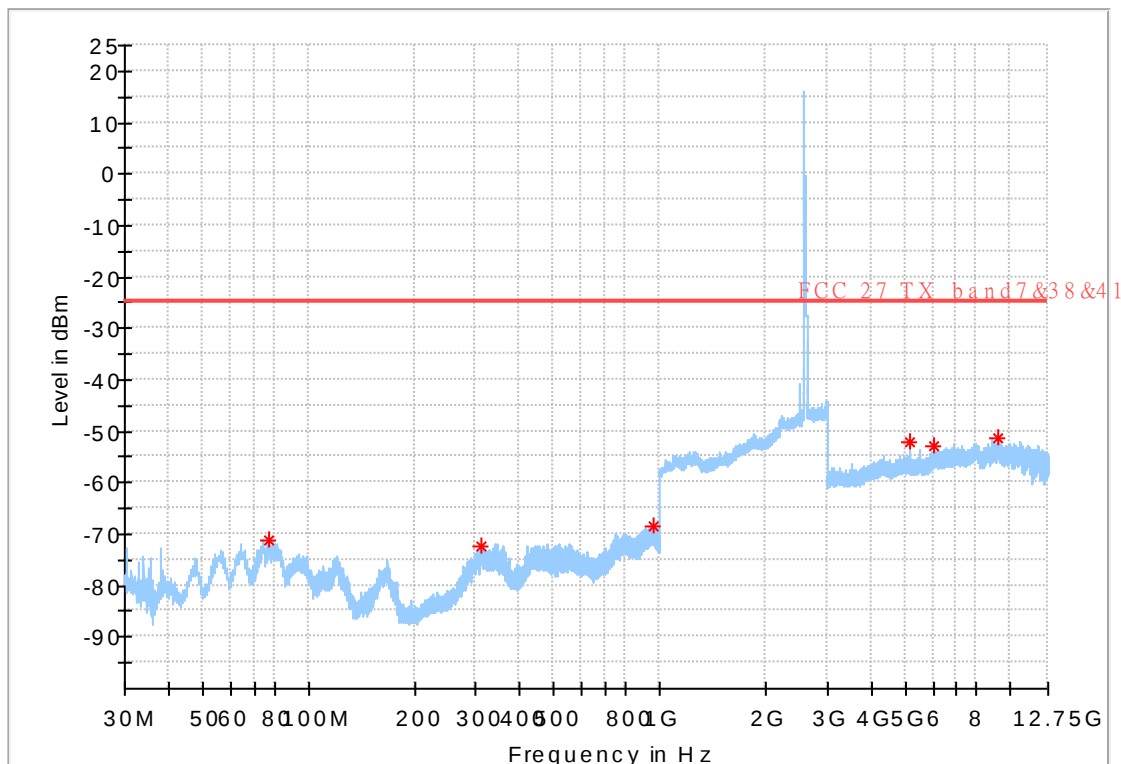
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.2.1.3 Test Channel = MCH_Veritical

Full Spectrum



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.

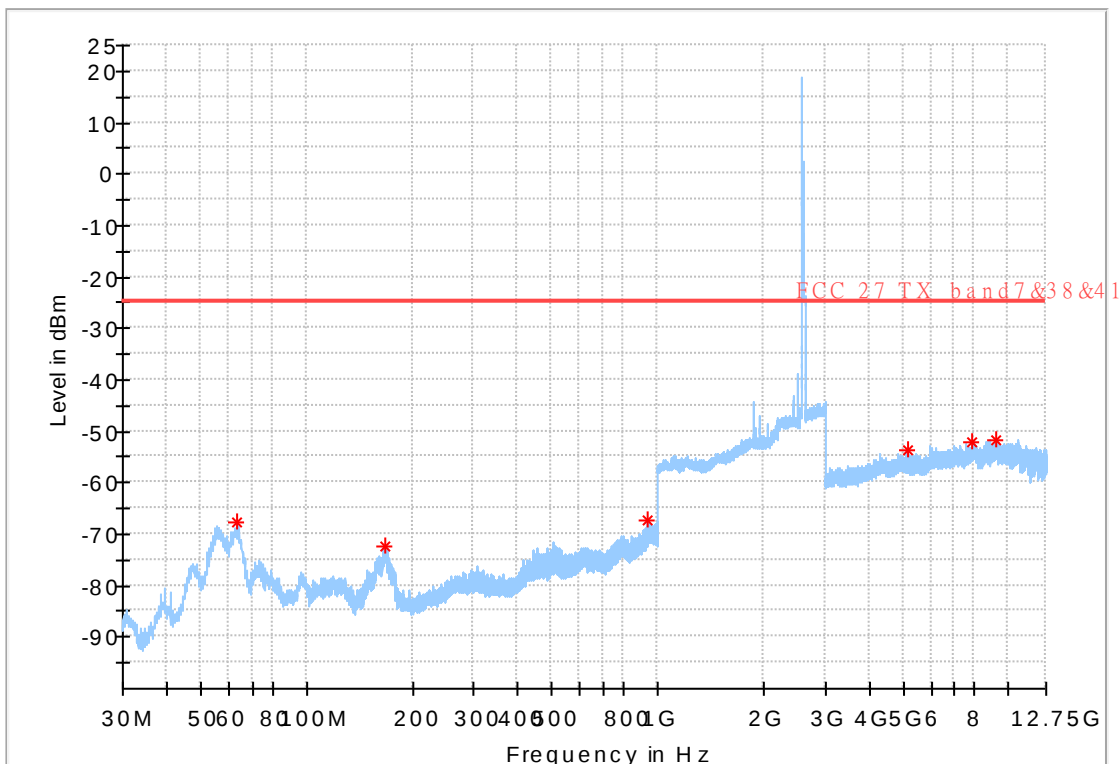
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.2.1.4 Test Channel = MCH _Horizontal

Full Spectrum



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.

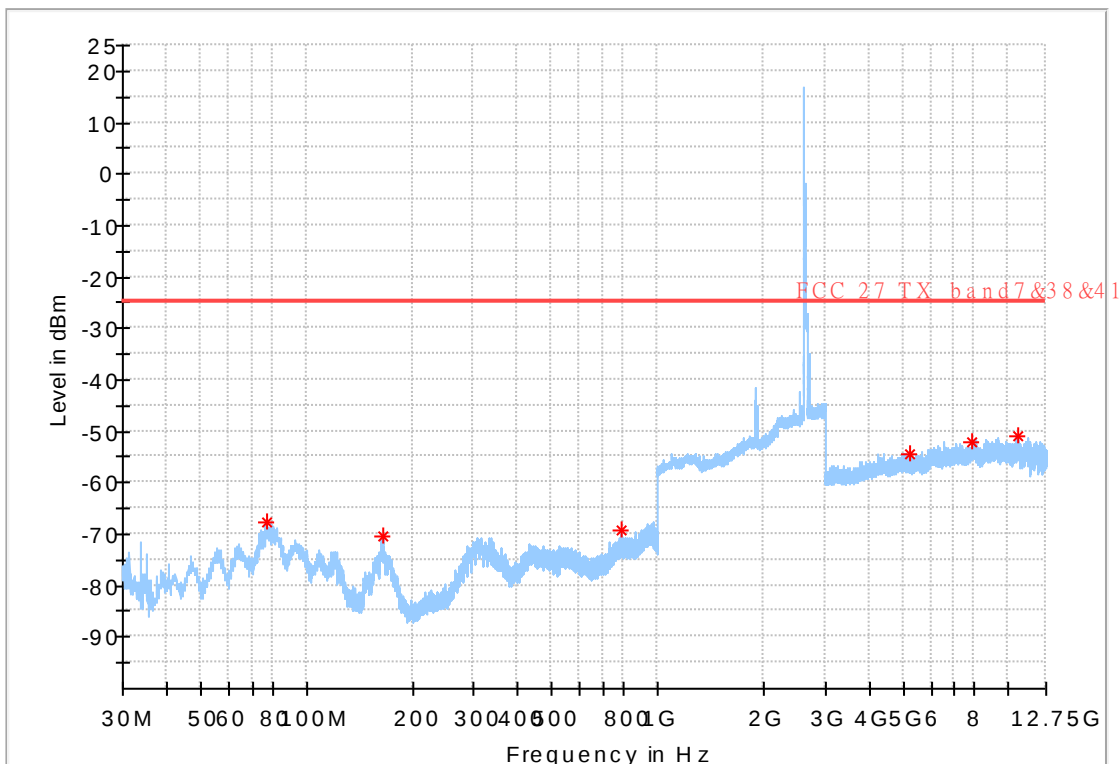
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.2.1.5 Test Channel = HCH _Vertical

Full Spectrum



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.

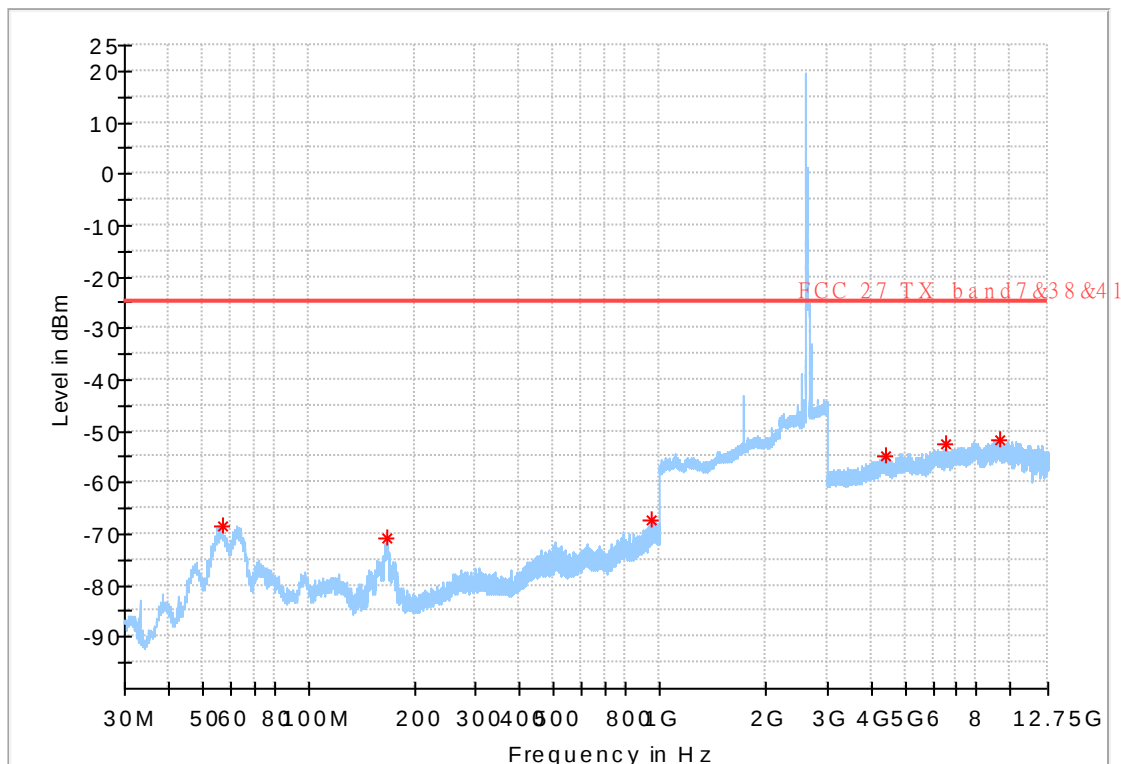
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

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

7.1.2.1.6 Test Channel = HCH _Horizontal

Full Spectrum



NOTE:

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all combinations and all modulations, but only the worst case data presented in this report.



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

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	TN	NV	-4.04	-0.001613	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	TN	NV	13.49	0.005221	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	TN	NV	-3.21	-0.001207	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	TN	NV	-1.72	-0.000681	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	TN	NV	-14.80	-0.005686	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	TN	NV	-2.25	-0.000840	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	TN	NV	7.28	0.002906	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	TN	NV	10.56	0.004090	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	TN	NV	13.33	0.005012	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	TN	NV	1.20	0.000474	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	TN	NV	-10.88	-0.004180	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	TN	NV	11.55	0.004311	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	TN	NV	4.57	0.001823	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	TN	NV	-10.02	-0.003879	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	TN	NV	13.14	0.004941	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	TN	NV	4.58	0.001812	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	TN	NV	4.01	0.001539	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	TN	NV	1.54	0.000575	PASS

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	-30	13.92	0.005555	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	-20	10.11	0.004034	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	-10	-10.17	-0.004060	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	0	-11.52	-0.004596	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	10	5.50	0.002196	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	20	2.51	0.001000	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	30	0.60	0.000241	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	40	-7.75	-0.003094	PASS
CA_41C	QPSK	40140+40338	100RB#0/100RB#0	NV	50	-14.16	-0.005652	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	-30	2.23	0.000864	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	-20	10.67	0.004130	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	-10	-3.03	-0.001173	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	0	-13.20	-0.005109	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	10	-3.29	-0.001274	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	20	13.09	0.005069	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	30	-5.52	-0.002136	PASS



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

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

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



CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	40	9.59	0.003714	PASS
CA_41C	QPSK	40541+40739	100RB#0/100RB#0	NV	50	12.93	0.005005	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	-30	3.63	0.001364	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	-20	-7.63	-0.002870	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	-10	2.14	0.000804	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	0	10.01	0.003762	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	10	-3.32	-0.001247	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	20	-0.38	-0.000143	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	30	7.95	0.002990	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	40	-7.87	-0.002960	PASS
CA_41C	QPSK	40942+41140	100RB#0/100RB#0	NV	50	9.29	0.003493	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	-30	6.76	0.002678	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	-20	-14.13	-0.005594	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	-10	-7.51	-0.002974	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	0	-5.82	-0.002306	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	10	-1.45	-0.000574	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	20	10.63	0.004209	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	30	7.89	0.003122	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	40	11.58	0.004585	PASS
CA_41C	QPSK	40338+40140	100RB#0/100RB#0	NV	50	0.61	0.000240	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	-30	9.46	0.003634	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	-20	-0.97	-0.000372	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	-10	-6.33	-0.002431	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	0	-9.19	-0.003531	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	10	13.92	0.005350	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	20	-1.27	-0.000487	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	30	-8.77	-0.003370	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	40	2.24	0.000859	PASS
CA_41C	QPSK	40739+40541	100RB#0/100RB#0	NV	50	1.25	0.000481	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	-30	5.74	0.002143	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	-20	-10.97	-0.004094	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	-10	6.11	0.002279	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	0	-4.31	-0.001607	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	10	12.34	0.004604	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	20	-13.67	-0.005101	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	30	-1.13	-0.000420	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	40	9.02	0.003367	PASS
CA_41C	QPSK	41140+40942	100RB#0/100RB#0	NV	50	-13.68	-0.005104	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	-30	6.83	0.002725	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	-20	3.59	0.001434	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	-10	-2.99	-0.001193	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	0	12.94	0.005163	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	10	11.50	0.004590	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	20	-8.75	-0.003490	PASS



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

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



CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	30	-10.64	-0.004245	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	40	-4.53	-0.001806	PASS
CA_41C	16QAM	40140+40338	100RB#0/100RB#0	NV	50	3.24	0.001294	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	-30	7.21	0.002793	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	-20	-0.10	-0.000037	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	-10	-12.89	-0.004990	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	0	-10.39	-0.004024	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	10	12.80	0.004956	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	20	-7.34	-0.002842	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	30	-8.66	-0.003354	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	40	-7.53	-0.002914	PASS
CA_41C	16QAM	40541+40739	100RB#0/100RB#0	NV	50	12.53	0.004849	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	-30	-11.37	-0.004274	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	-20	7.09	0.002664	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	-10	-9.13	-0.003431	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	0	-10.63	-0.003995	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	10	-4.30	-0.001616	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	20	8.98	0.003377	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	30	9.85	0.003701	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	40	-8.28	-0.003113	PASS
CA_41C	16QAM	40942+41140	100RB#0/100RB#0	NV	50	0.01	0.000004	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	-30	5.25	0.002080	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	-20	11.59	0.004589	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	-10	10.13	0.004011	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	0	-3.34	-0.001323	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	10	-14.83	-0.005871	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	20	-12.33	-0.004881	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	30	-13.00	-0.005145	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	40	-8.50	-0.003364	PASS
CA_41C	16QAM	40338+40140	100RB#0/100RB#0	NV	50	12.61	0.004992	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	-30	2.73	0.001051	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	-20	-3.05	-0.001171	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	-10	0.13	0.000049	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	0	5.37	0.002062	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	10	-5.11	-0.001962	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	20	-1.78	-0.000685	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	30	-8.89	-0.003414	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	40	-0.45	-0.000174	PASS
CA_41C	16QAM	40739+40541	100RB#0/100RB#0	NV	50	-13.14	-0.005049	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	-30	-3.41	-0.001272	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	-20	4.52	0.001687	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	-10	-11.63	-0.004340	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	0	-13.07	-0.004878	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	10	11.84	0.004417	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) 26012053, or email: CN.Doccheck@sgs.com

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

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



CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	20	0.58	0.000215	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	30	8.32	0.003105	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	40	1.86	0.000694	PASS
CA_41C	16QAM	41140+40942	100RB#0/100RB#0	NV	50	1.81	0.000676	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	-30	-7.15	-0.002853	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	-20	-2.75	-0.001098	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	-10	-6.57	-0.002623	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	0	4.65	0.001856	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	10	-10.05	-0.004008	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	20	-4.87	-0.001942	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	30	6.47	0.002583	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	40	-5.71	-0.002277	PASS
CA_41C	64QAM	40140+40338	100RB#0/100RB#0	NV	50	2.21	0.000881	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	-30	3.84	0.001487	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	-20	2.10	0.000811	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	-10	7.01	0.002713	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	0	-1.42	-0.000552	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	10	-9.44	-0.003654	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	20	-5.90	-0.002282	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	30	0.83	0.000320	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	40	10.30	0.003989	PASS
CA_41C	64QAM	40541+40739	100RB#0/100RB#0	NV	50	-7.77	-0.003009	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	-30	13.83	0.005199	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	-20	9.74	0.003662	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	-10	1.77	0.000666	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	0	8.86	0.003332	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	10	-3.17	-0.001193	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	20	5.84	0.002196	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	30	13.89	0.005221	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	40	8.44	0.003173	PASS
CA_41C	64QAM	40942+41140	100RB#0/100RB#0	NV	50	-10.14	-0.003812	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	-30	-2.56	-0.001015	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	-20	13.34	0.005283	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	-10	11.59	0.004590	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	0	-4.86	-0.001923	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	10	10.78	0.004269	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	20	-2.11	-0.000835	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	30	-0.72	-0.000287	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	40	0.01	0.000002	PASS
CA_41C	64QAM	40338+40140	100RB#0/100RB#0	NV	50	-8.65	-0.003426	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	-30	9.15	0.003514	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	-20	-7.06	-0.002712	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	-10	9.06	0.003482	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	0	6.93	0.002661	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 (Shenzhen 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



CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	10	-3.14	-0.001207	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	20	-10.25	-0.003937	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	30	-14.00	-0.005378	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	40	-2.53	-0.000971	PASS
CA_41C	64QAM	40739+40541	100RB#0/100RB#0	NV	50	-12.28	-0.004717	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	-30	2.14	0.000797	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	-20	13.58	0.005066	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	-10	11.94	0.004456	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	0	6.74	0.002516	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	10	-12.91	-0.004818	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	20	-7.76	-0.002896	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	30	3.26	0.001217	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	40	-7.22	-0.002695	PASS
CA_41C	64QAM	41140+40942	100RB#0/100RB#0	NV	50	-12.02	-0.004484	PASS

The End

