



# Appendix B

## E-UTRA Band CA\_38C



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) 2601 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



## CONTENT

	Page
<b>1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....</b>	<b>4</b>
1.1 MAX POWER TEST RESULT FOR LTE BAND CA_38C(CONFIG 0).....	4
1.2 MAX POWER TEST RESULT FOR LTE BAND CA_38C(CONFIG 1).....	5
<b>2 PEAK-TO-AVERAGE RATIO .....</b>	<b>6</b>
2.1 FOR LTE.....	7
2.1.1 Test Band = LTE Band CA_38C.....	7
<b>3 MODULATION CHARACTERISTICS .....</b>	<b>12</b>
3.1 FOR LTE.....	12
3.1.1 Test Band = LTE Band CA_38C.....	12
<b>4 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b>	<b>15</b>
4.1 FOR LTE.....	16
4.1.1 Test Band = LTE Band CA_38C.....	16
<b>5 BAND EDGES COMPLIANCE .....</b>	<b>26</b>
5.1 FOR LTE.....	26
5.1.1 Test Band = LTE Band CA_38C.....	26
<b>6 SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b>	<b>39</b>
6.1 FOR LTE.....	39
6.1.1 Test Band = LTE Band CA_38C.....	39
<b>7 FIELD STRENGTH OF SPURIOUS RADIATION.....</b>	<b>53</b>
7.1 FOR LTE UL CA.....	53
7.1 Test Band = LTE Band CA_38C (Config 0).....	53
7.1.1 TEST CHANNEL = LCH.....	53
7.1.2 TEST CHANNEL = MCH .....	53
7.1.3 TEST CHANNEL = HCH.....	54
7.2 Test Band = LTE Band CA_38C (Config 1).....	54
7.1.1 TEST CHANNEL = LCH.....	54
7.1.4 TEST CHANNEL = MCH .....	55
7.1.5 TEST CHANNEL = HCH.....	55



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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) 2307 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



**8 FREQUENCY STABILITY.....56**

8.1 FREQUENCY ERROR VS. VOLTAGE .....56

8.2 FREQUENCY ERROR VS. TEMPERATURE.....57



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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) 2607 1443, or email: CN.Doccheck@sgs.com**



# 1 Effective (Isotropic) Radiated Power Output Data

## 1.1 Max Power Test Result for LTE Band CA\_38C(CONFIG 0)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	24.6	24.4	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	24.44	24.24	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	24.42	24.22	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	24.43	24.23	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	24.44	24.24	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	24.36	24.16	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	24.32	24.12	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	24.4	24.2	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	24.44	24.24	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	24.38	24.18	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	24.45	24.25	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	24.41	24.21	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	23.76	23.56	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	23.41	23.21	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	23.74	23.54	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	23.42	23.22	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	23.78	23.58	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	23.38	23.18	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	23.58	23.38	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	23.28	23.08	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	23.59	23.39	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	23.27	23.07	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	23.61	23.41	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	23.3	23.1	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	22.69	22.49	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	22.35	22.15	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	22.65	22.45	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	22.27	22.07	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	22.74	22.54	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	22.32	22.12	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	22.57	22.37	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	22.38	22.18	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	22.55	22.35	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	22.38	22.18	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	22.59	22.39	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	22.38	22.18	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 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



**1.2 Max Power Test Result for LTE Band CA\_38C(CONFIG 1)**

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	21.20	21.3	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	21.16	21.26	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	21.07	21.17	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	21.09	21.19	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	21.19	21.29	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	21.13	21.23	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	21.15	21.25	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	21.24	21.34	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	21.25	21.35	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	21.08	21.18	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	21.19	21.29	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	21.18	21.28	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	20.13	20.23	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	20.12	20.22	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	20.37	20.47	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	20.22	20.32	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	20.16	20.26	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	20.06	20.16	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	20.02	20.12	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	20.28	20.38	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	20.08	20.18	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	20.11	20.21	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	20.14	20.24	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	20.15	20.25	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	19.21	19.31	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	19.19	19.29	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	19.18	19.28	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	19.14	19.24	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	19.14	19.24	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	19.18	19.28	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	19.26	19.36	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	19.10	19.2	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	19.22	19.32	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	19.15	19.25	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	19.14	19.24	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	19.29	19.39	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 [dBd]

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-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) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	4.87	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	6.78	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	5.25	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	6.41	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	6.78	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	7.33	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	8.58	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	6.75	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	6.26	13.00	PASS



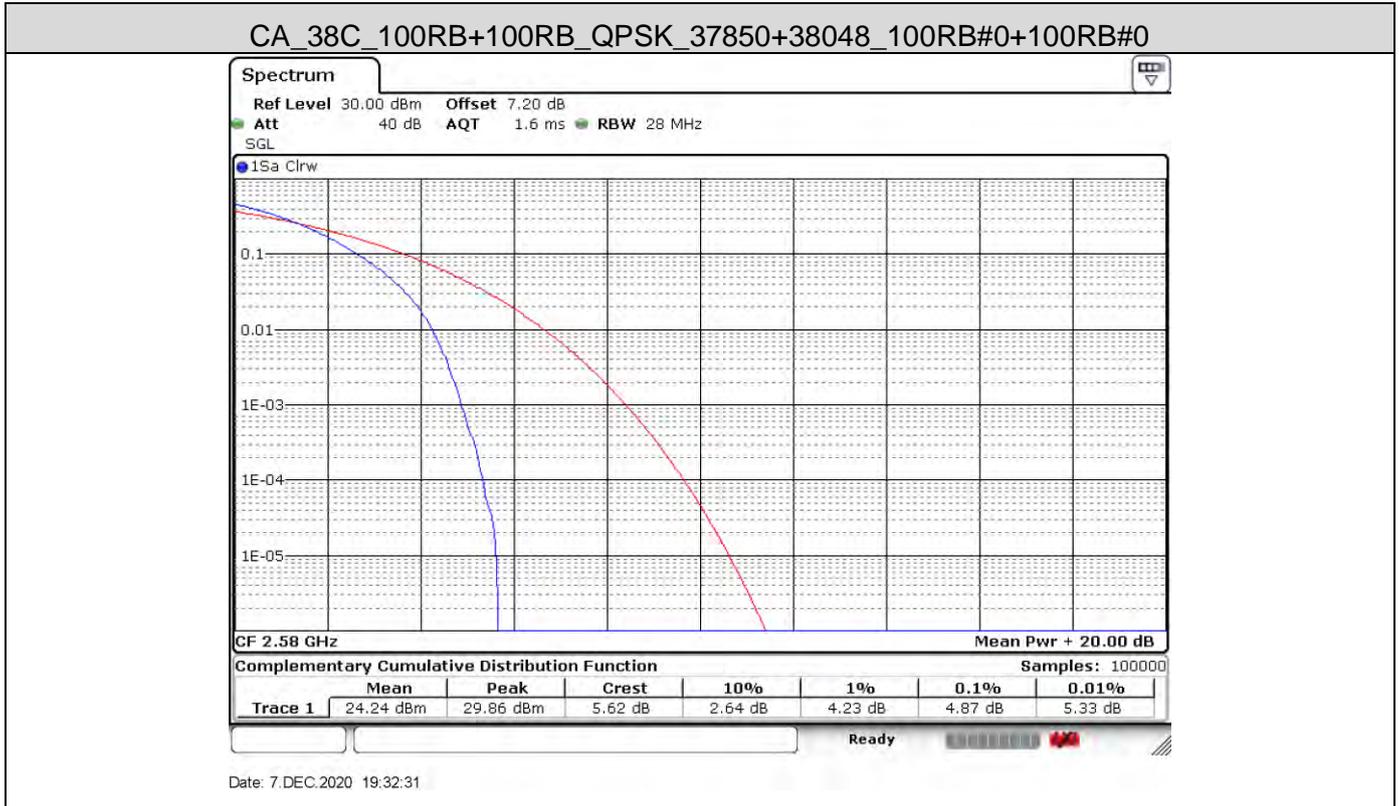
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2601 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



**2.1 For LTE**

**2.1.1 Test Band = LTE Band CA\_38C**

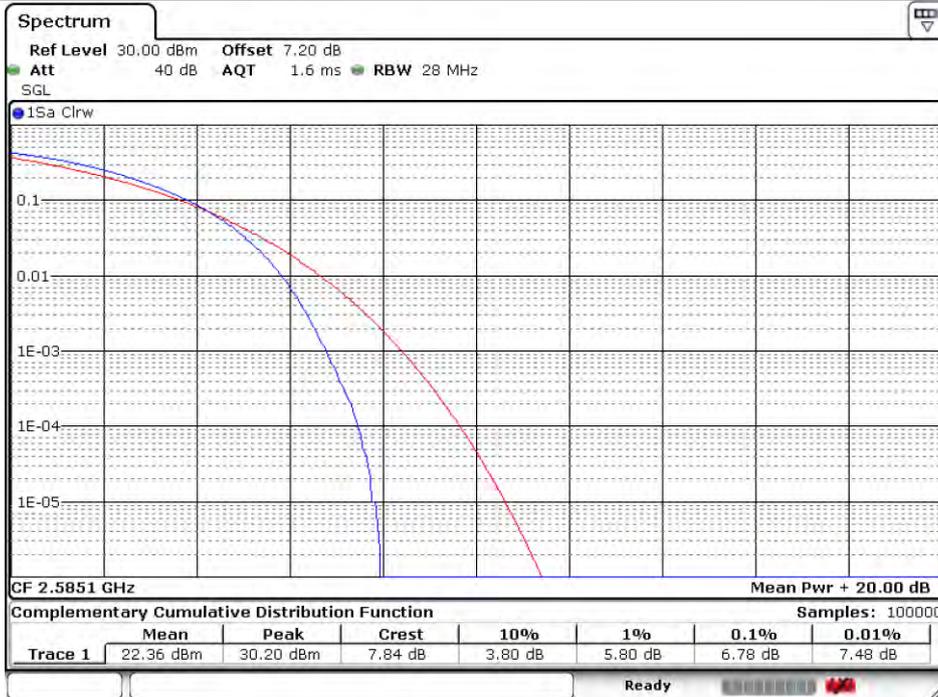


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

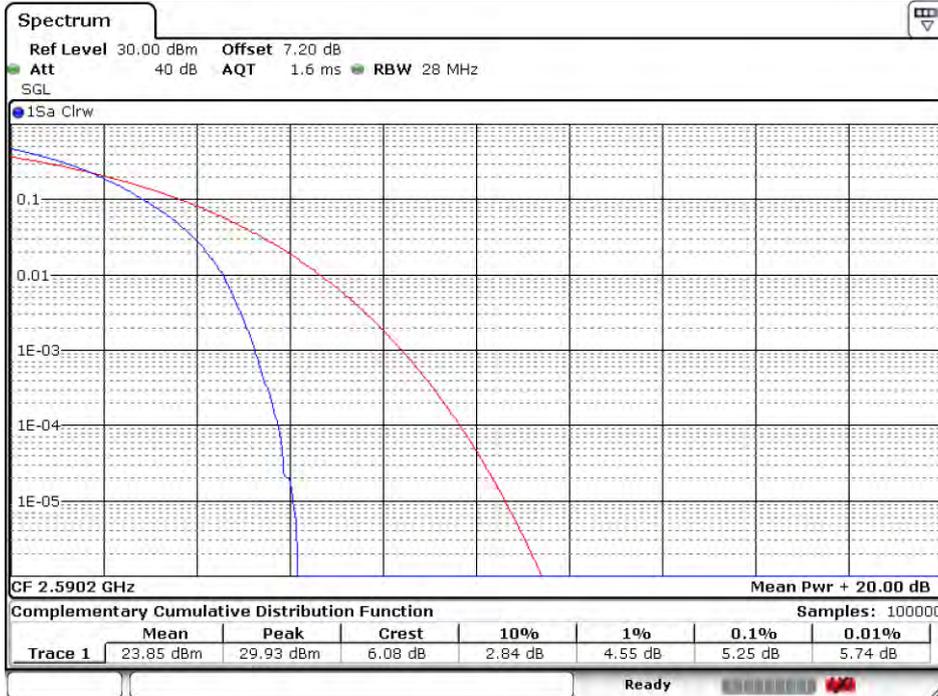


**CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:37:53

**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:39:26



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

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

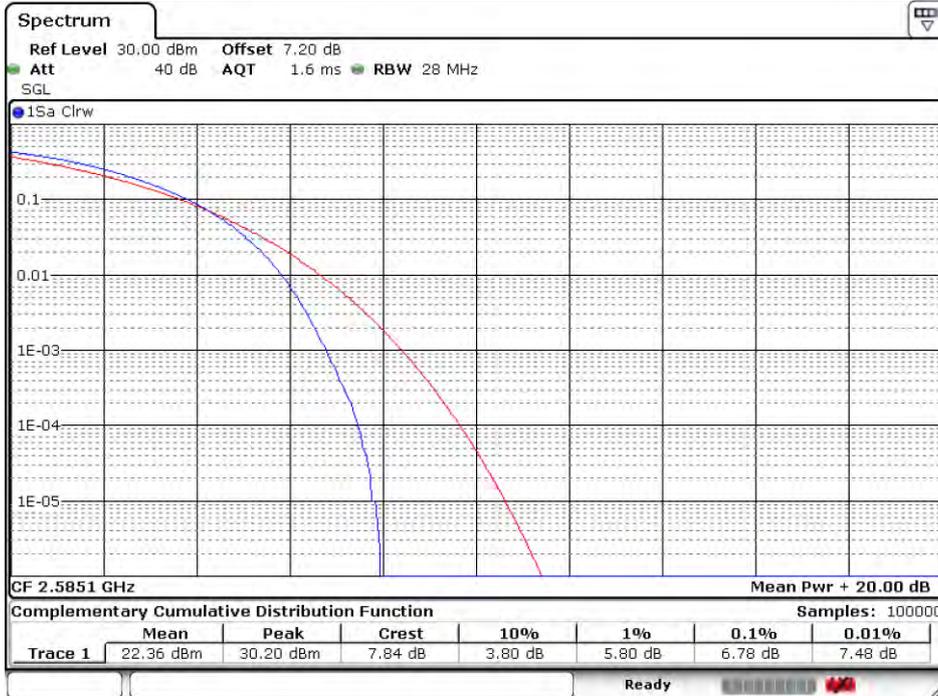


CA\_38C\_100RB+100RB\_16QAM\_37850+38048\_100RB#0+100RB#0



Date: 7.DEC.2020 19:32:47

CA\_38C\_100RB+100RB\_16QAM\_37901+38099\_100RB#0+100RB#0



Date: 7.DEC.2020 19:37:28



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.

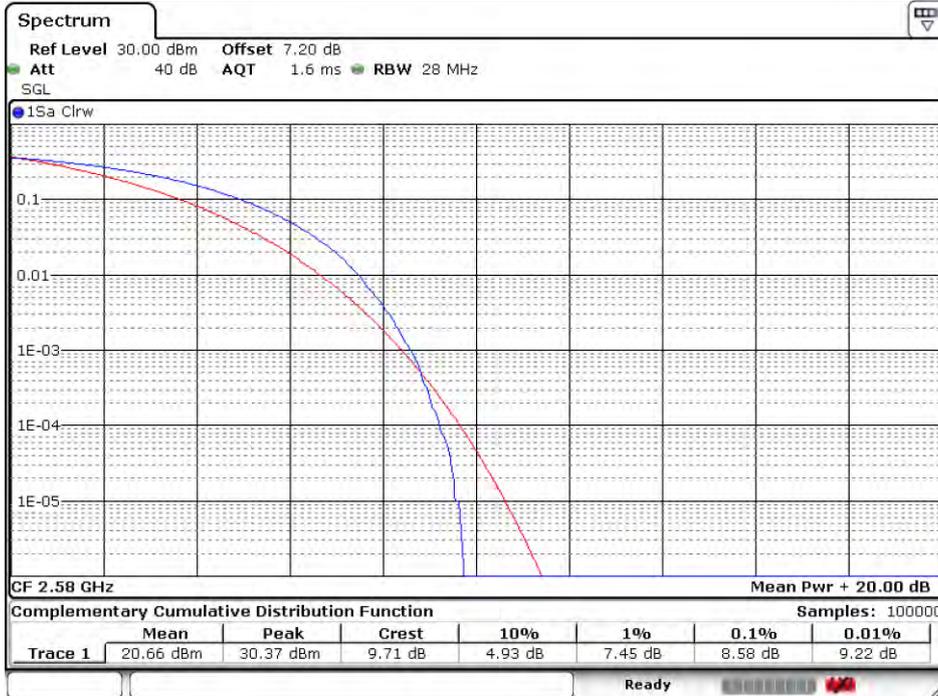


**CA\_38C\_100RB+100RB\_16QAM\_37952+38150\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:40:25

**CA\_38C\_100RB+100RB\_64QAM\_37850+38048\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:33:13



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.



**CA\_38C\_100RB+100RB\_64QAM\_37901+38099\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:37:15

**CA\_38C\_100RB+100RB\_64QAM\_37952+38150\_100RB#0+100RB#0**



Date: 7.DEC.2020 19:40:43



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



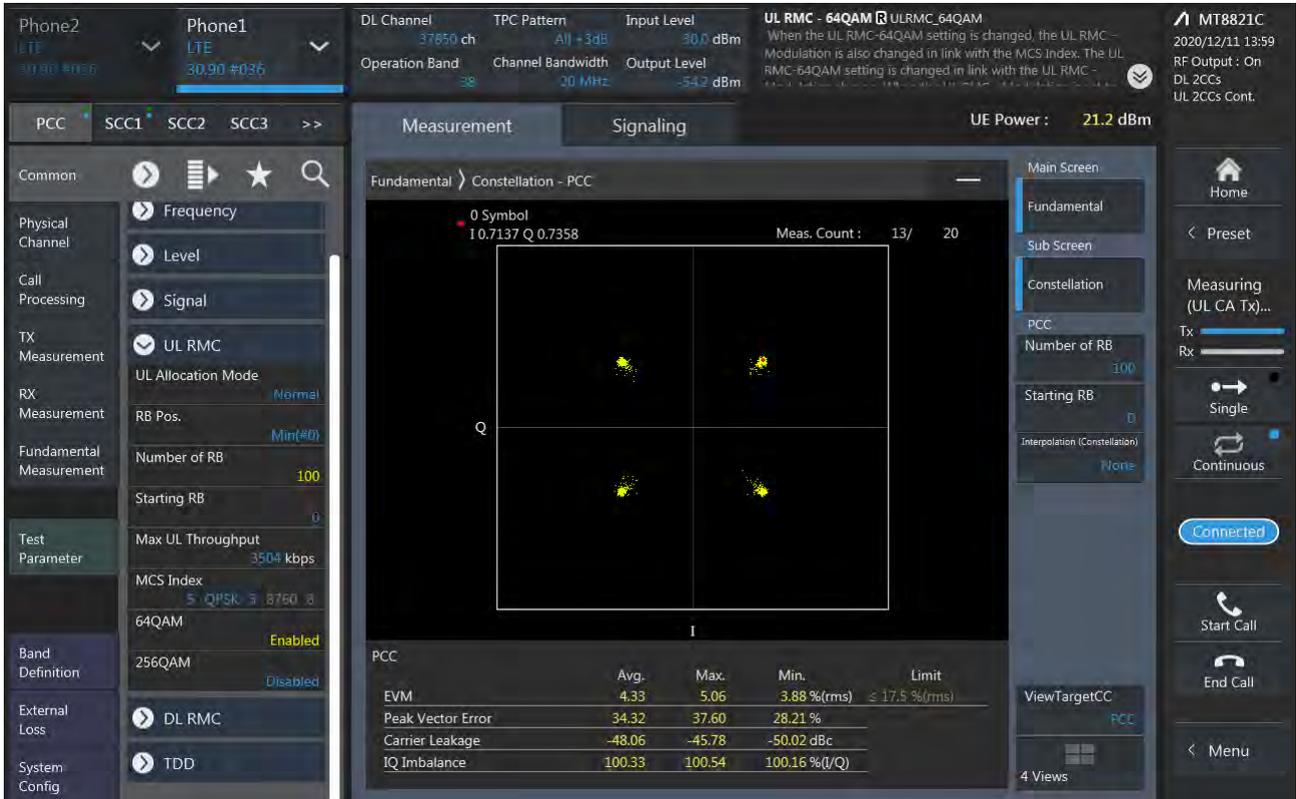
### 3 Modulation Characteristics

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE Band CA\_38C

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

##### 3.1.1.1.1 Test Channel = 37850+38048



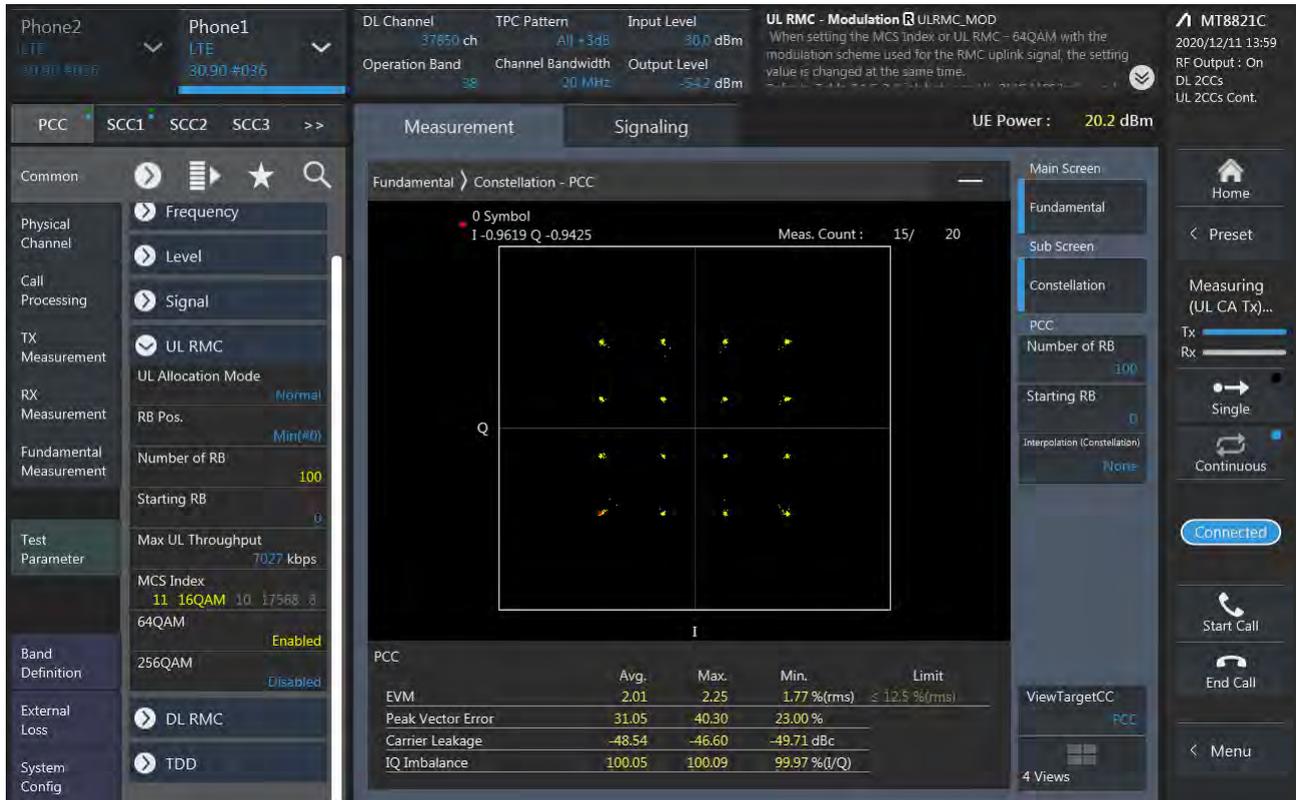
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



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

**3.1.1.2.1 Test Channel =37850+38048**



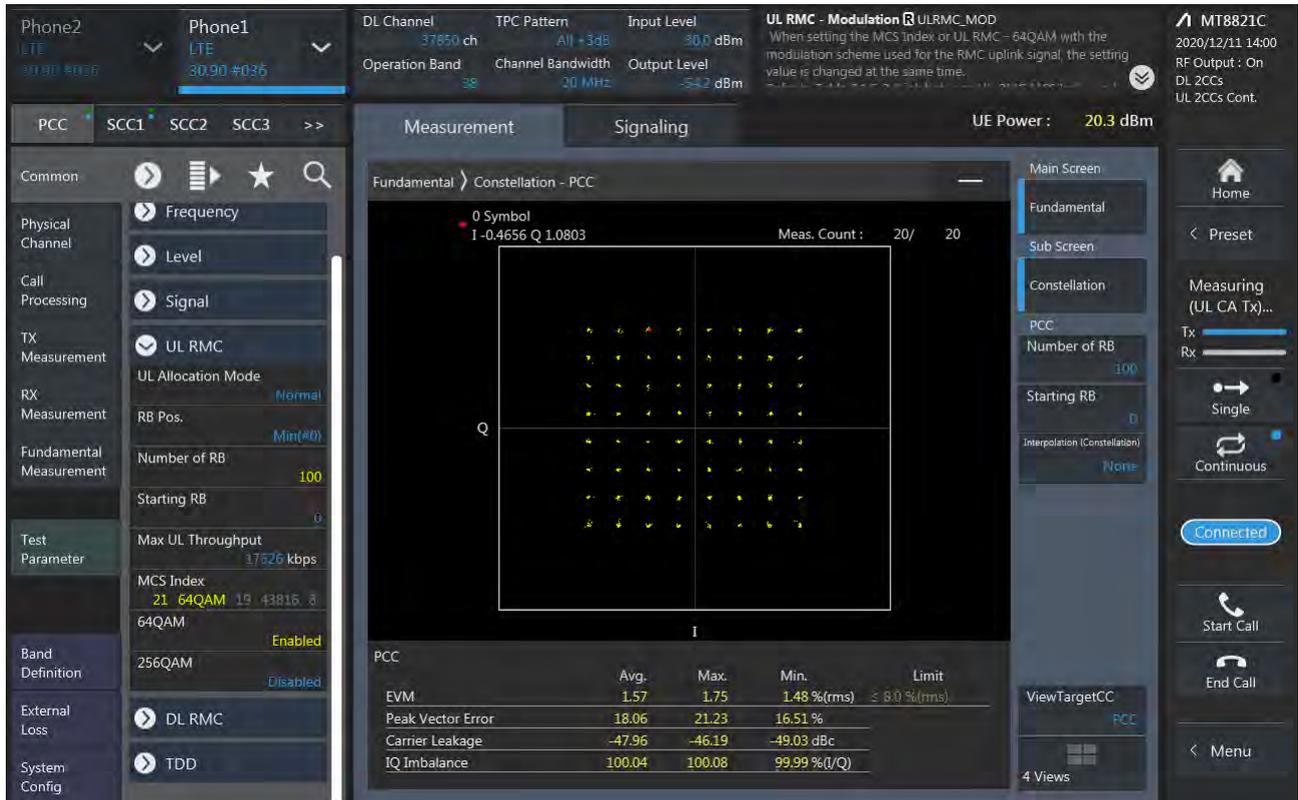
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 2307 1443, or email: CN.Doccheck@sgs.com



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

3.1.1.3.1 Test Channel = 37850+38048



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) 2601 1443, or email: CN.Doccheck@sgs.com



## 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_38C	QPSK	75RB+75RB	37825+37975	75RB#0	75RB#0	28.28	29.36	PASS
CA_38C	16QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.27	29.26	PASS
CA_38C	64QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.25	29.27	PASS
CA_38C	QPSK	75RB+75RB	37925+38075	75RB#0	75RB#0	28.3	29.23	PASS
CA_38C	16QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.27	29.26	PASS
CA_38C	64QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.25	29.27	PASS
CA_38C	QPSK	75RB+75RB	38025+38175	75RB#0	75RB#0	28.28	29.29	PASS
CA_38C	16QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.25	29.24	PASS
CA_38C	64QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.25	29.27	PASS
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	37.51	38.85	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.55	38.99	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.53	38.97	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	37.57	38.83	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.53	38.99	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.53	38.99	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	37.53	39.03	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.53	38.97	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.51	38.99	PASS

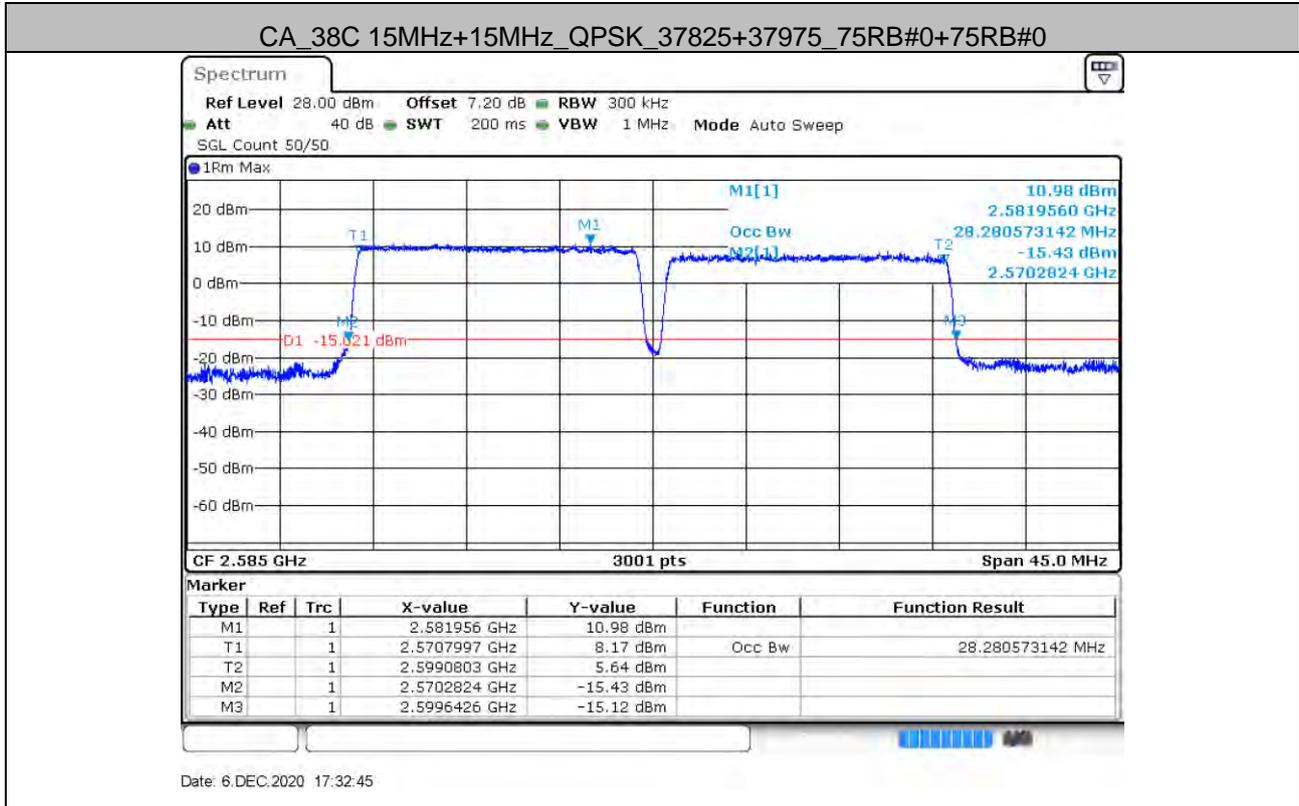


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

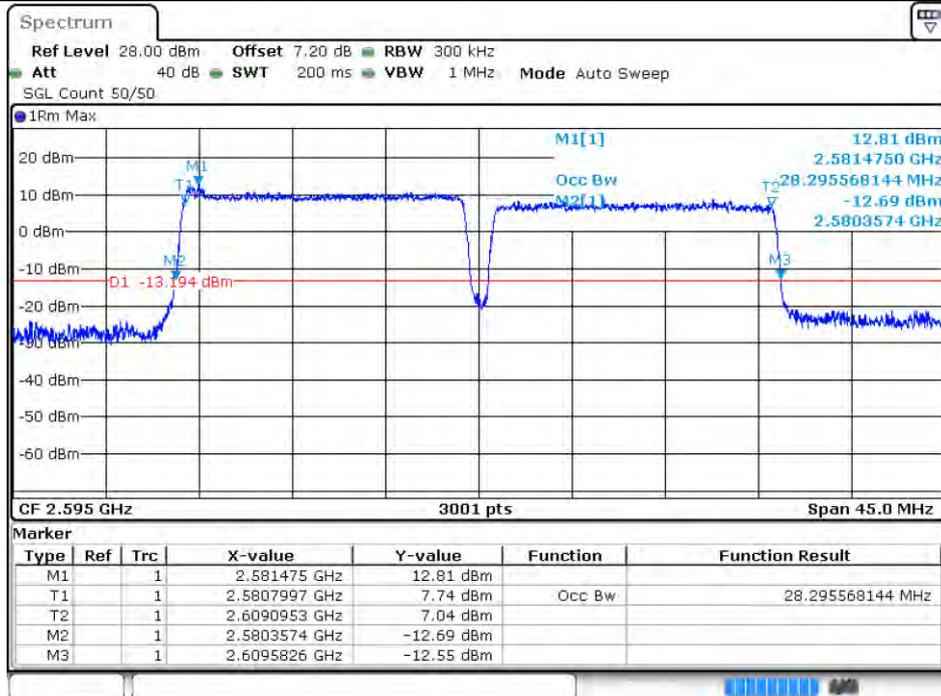
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

## 4.1 For LTE

### 4.1.1 Test Band = LTE Band CA\_38C

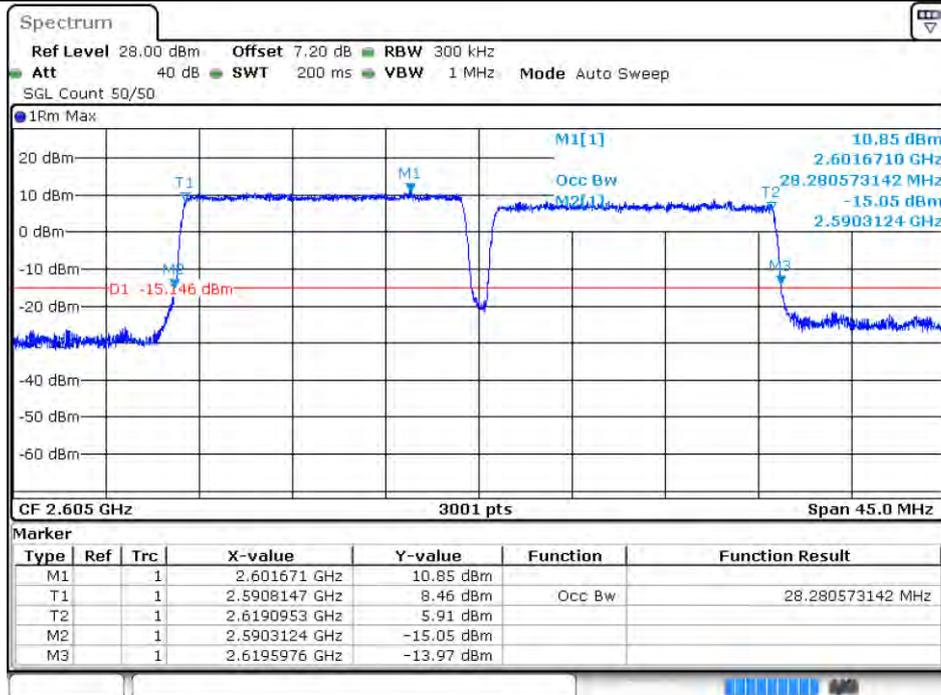


CA\_38C 15MHz+15MHz\_QPSK\_37925+38075\_75RB#0+75RB#0



Date: 6 DEC.2020 17:33:49

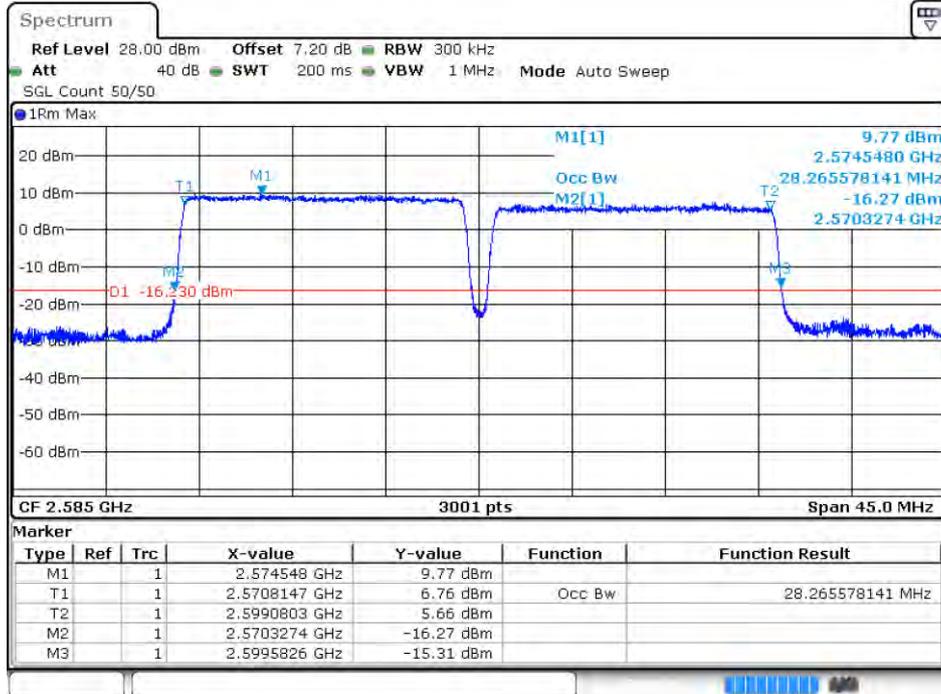
CA\_38C 15MHz+15MHz\_QPSK\_38025+38175\_75RB#0+75RB#0



Date: 6 DEC.2020 17:34:51

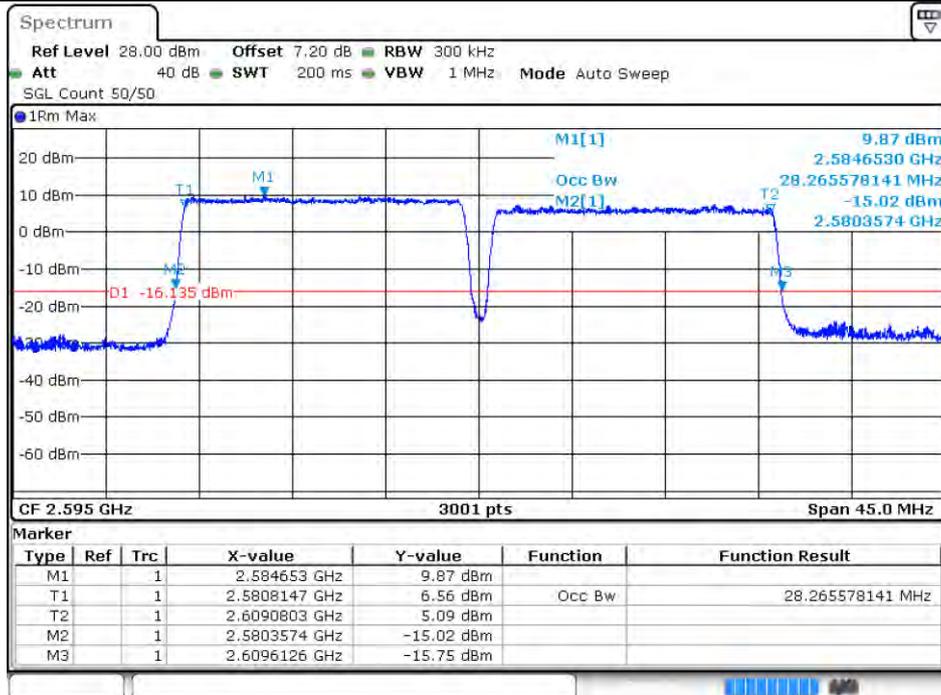


CA\_38C 15MHz+15MHz\_16QAM\_37825+37975\_75RB#0+75RB#0



Date: 6 DEC.2020 17:33:01

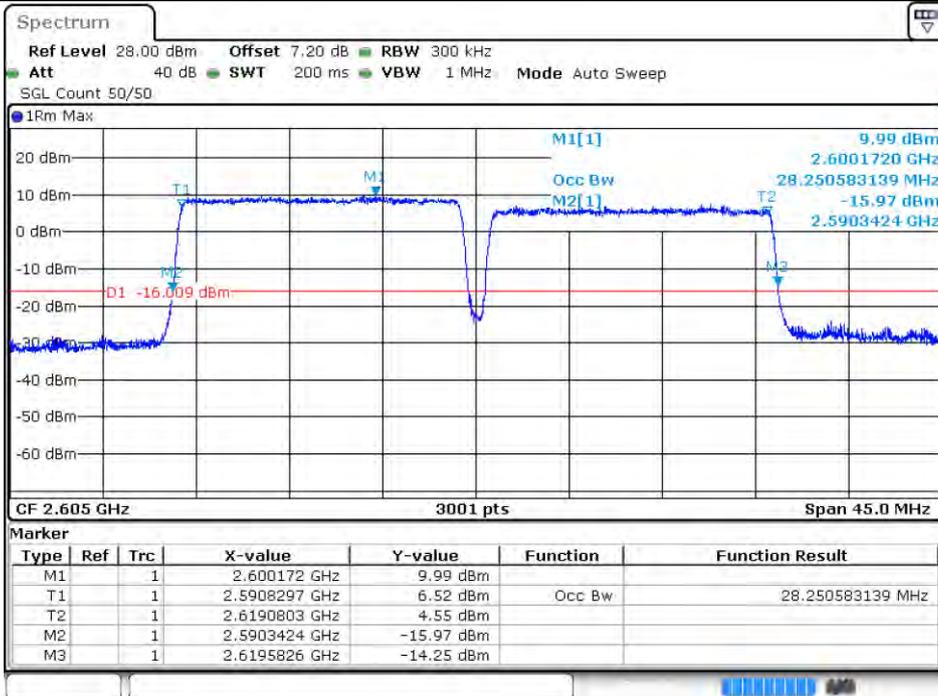
CA\_38C 15MHz+15MHz\_16QAM\_37925+38075\_75RB#0+75RB#0



Date: 6 DEC.2020 17:34:05

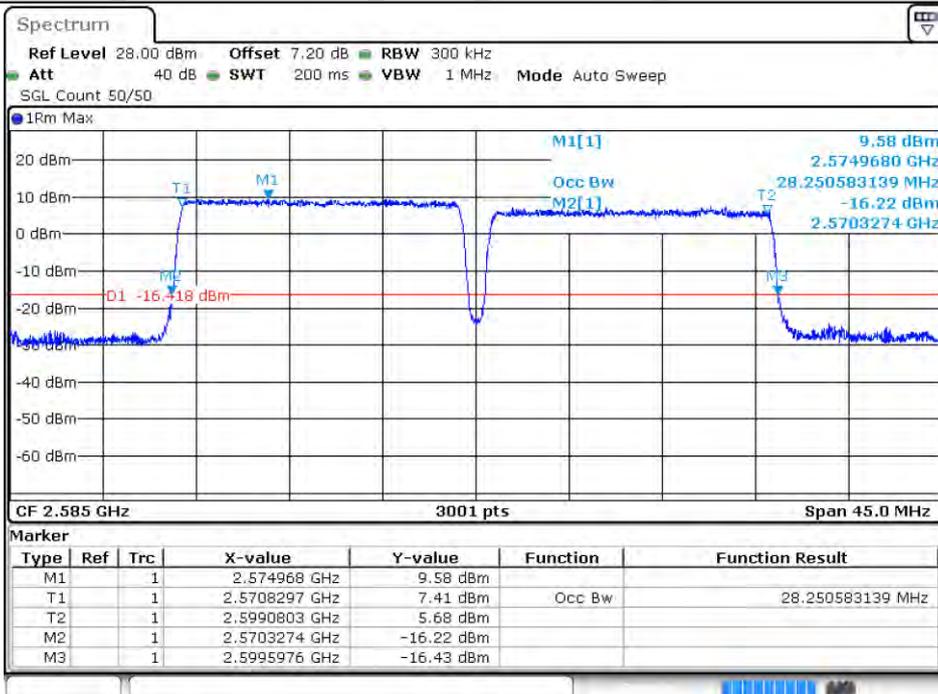


**CA\_38C 15MHz+15MHz\_16QAM\_38025+38175\_75RB#0+75RB#0**



Date: 6 DEC.2020 17:35:07

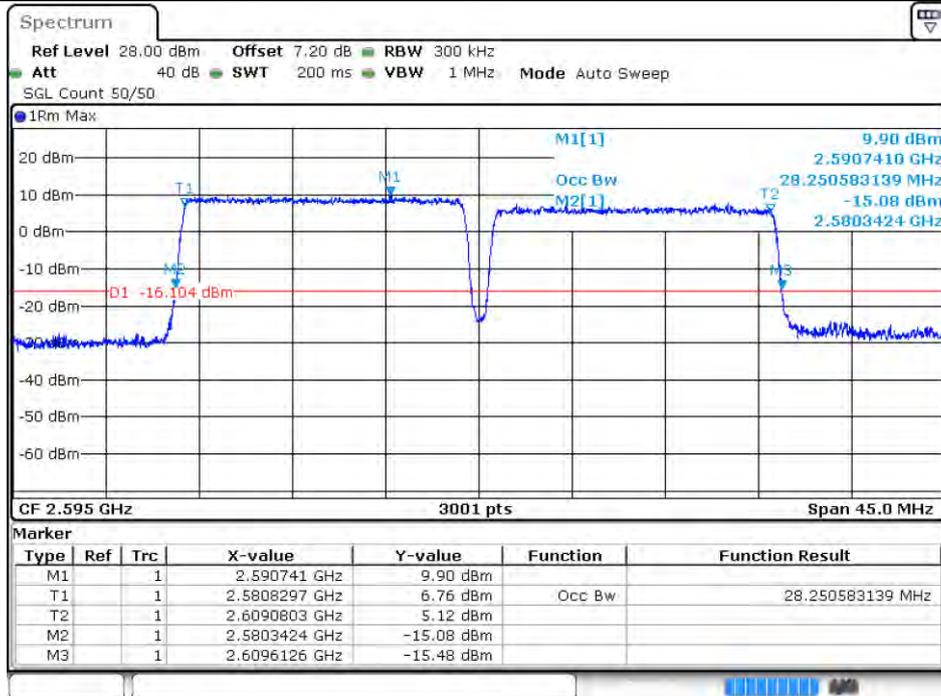
**CA\_38C 15MHz+15MHz\_64QAM\_37825+37975\_75RB#0+75RB#0**



Date: 6 DEC.2020 17:33:19

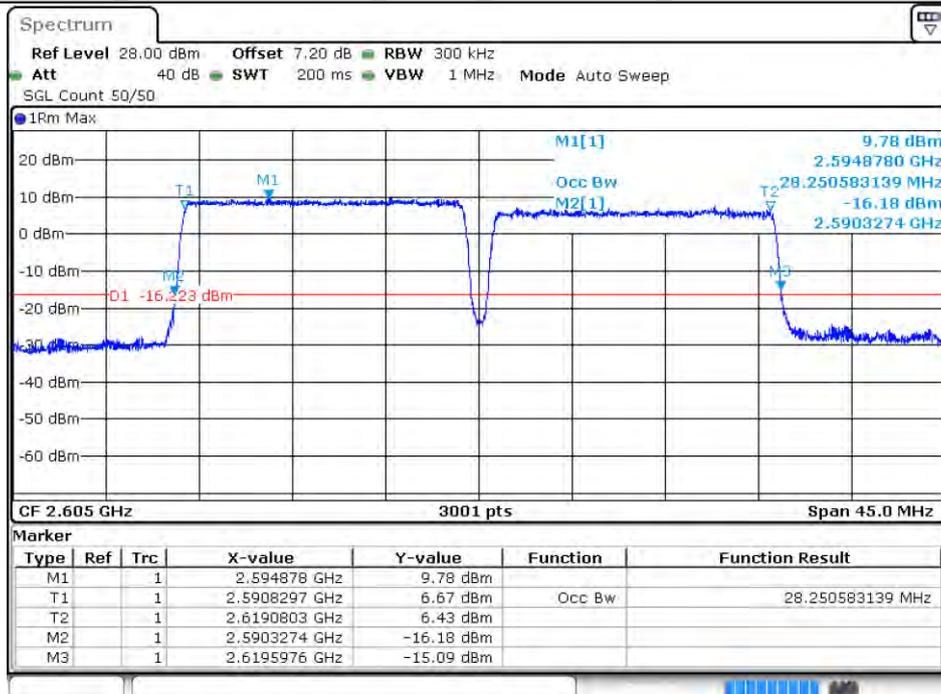


CA\_38C 15MHz+15MHz\_64QAM\_37925+38075\_75RB#0+75RB#0



Date: 6 DEC.2020 17:34:21

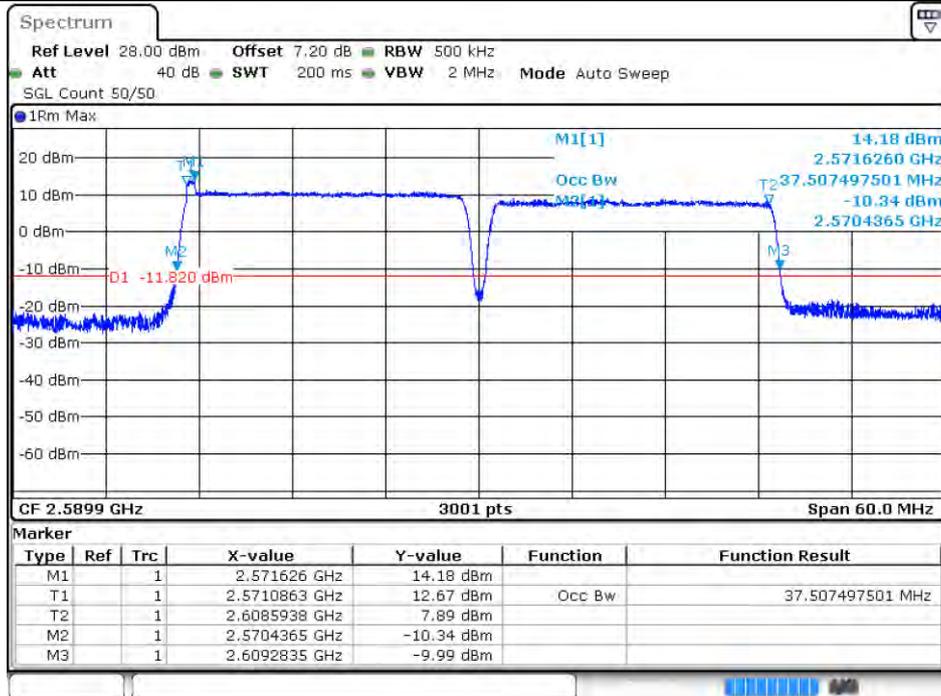
CA\_38C 15MHz+15MHz\_64QAM\_38025+38175\_75RB#0+75RB#0



Date: 6 DEC.2020 17:35:23

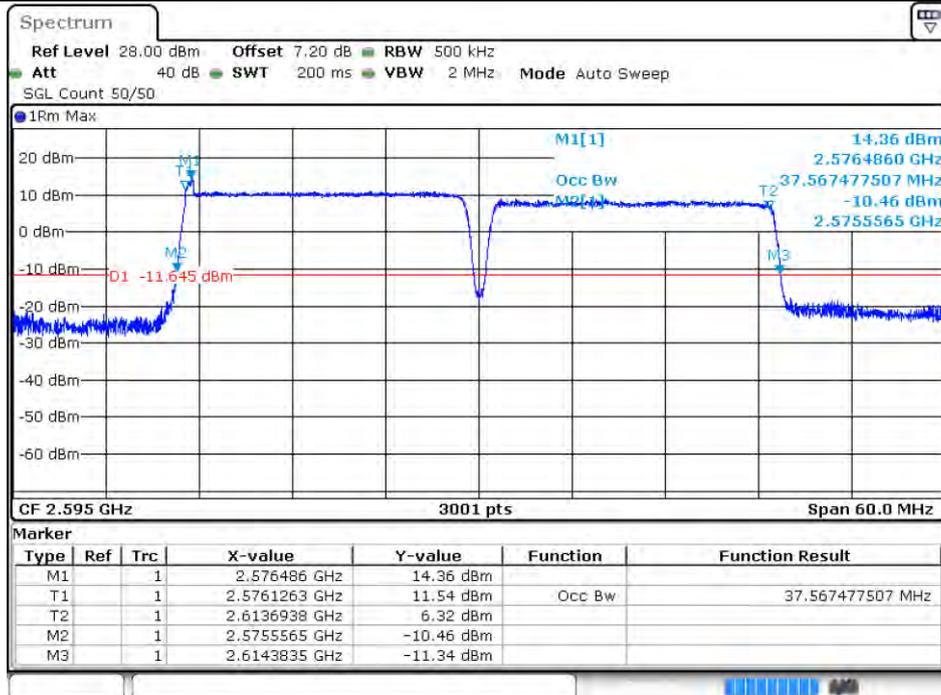


CA\_38C 20MHz+20MHz\_QPSK\_37850+38048\_100RB#0+100RB#0



Date: 6 DEC.2020 17:35:57

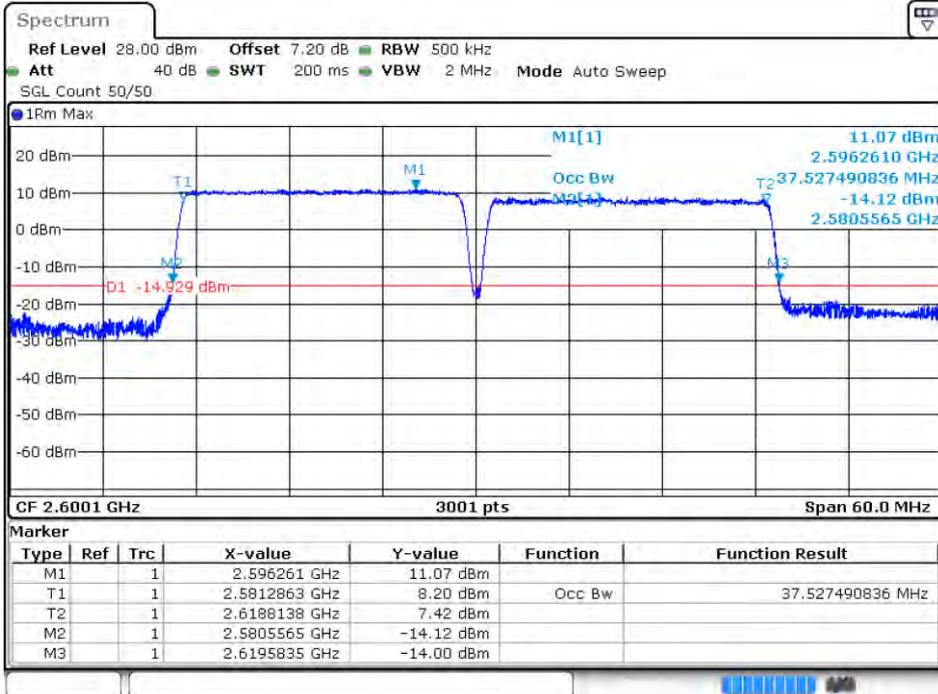
CA\_38C 20MHz+20MHz\_QPSK\_37901+38099\_100RB#0+100RB#0



Date: 6 DEC.2020 17:36:59

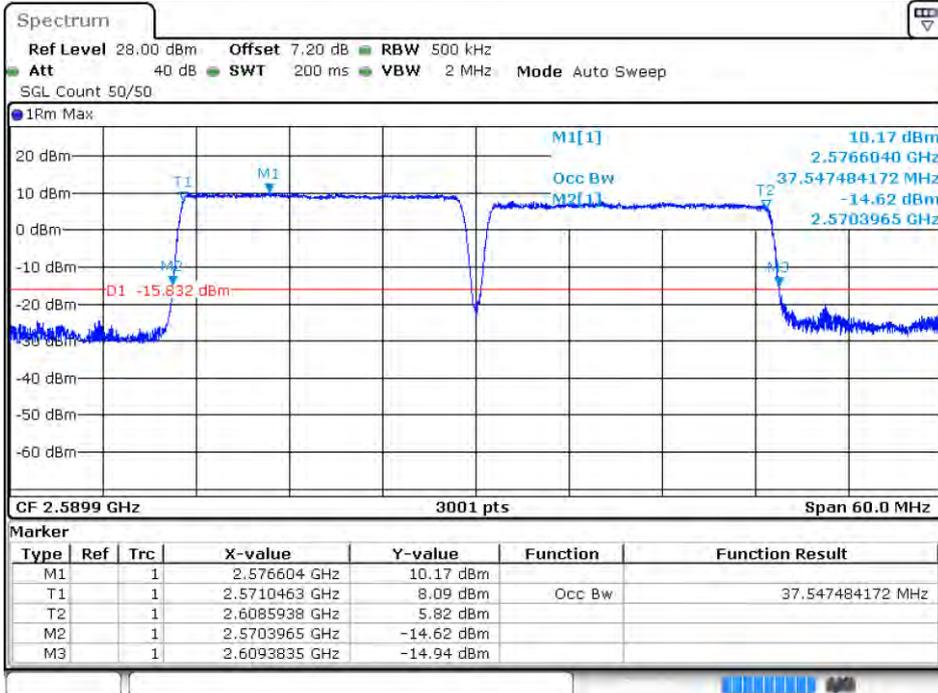


CA\_38C 20MHz+20MHz\_QPSK\_37952+38150\_100RB#0+100RB#0



Date: 6 DEC.2020 17:38:02

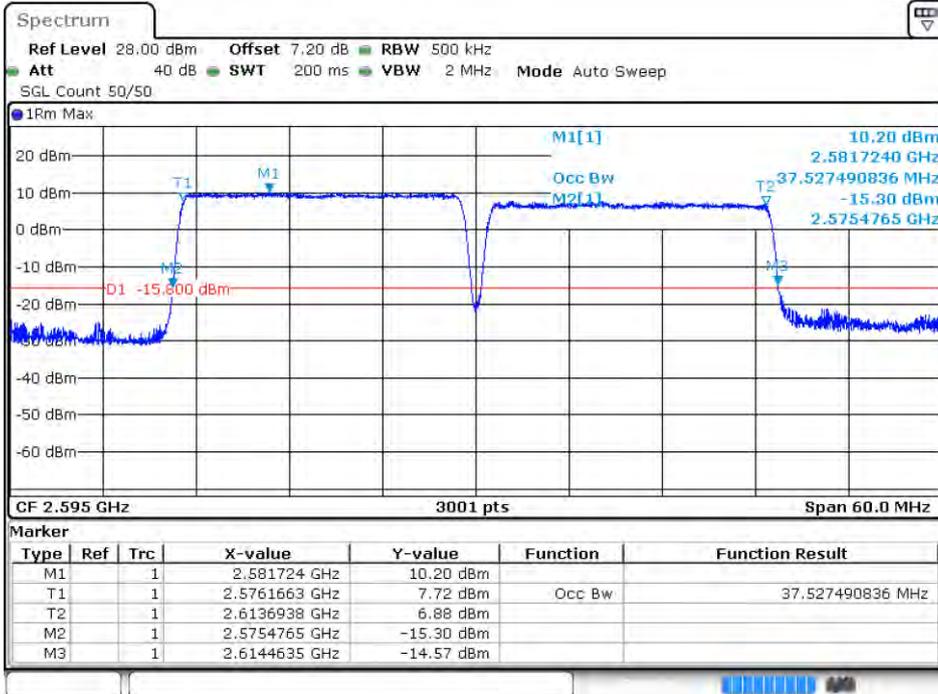
CA\_38C 20MHz+20MHz\_16QAM\_37850+38048\_100RB#0+100RB#0



Date: 6 DEC.2020 17:36:13

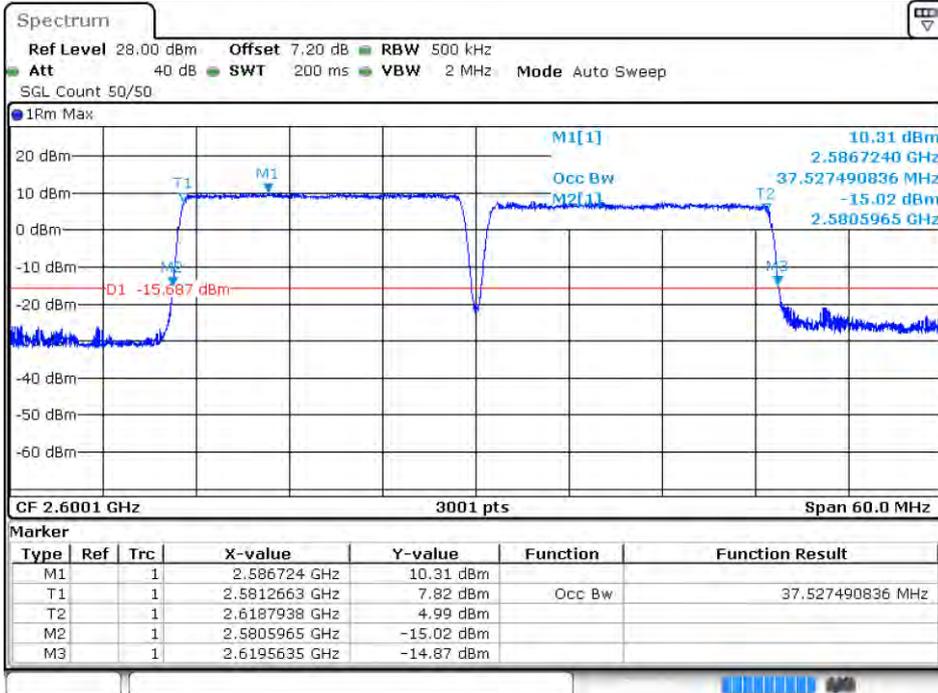


CA\_38C 20MHz+20MHz\_16QAM\_37901+38099\_100RB#0+100RB#0



Date: 6 DEC.2020 17:37:16

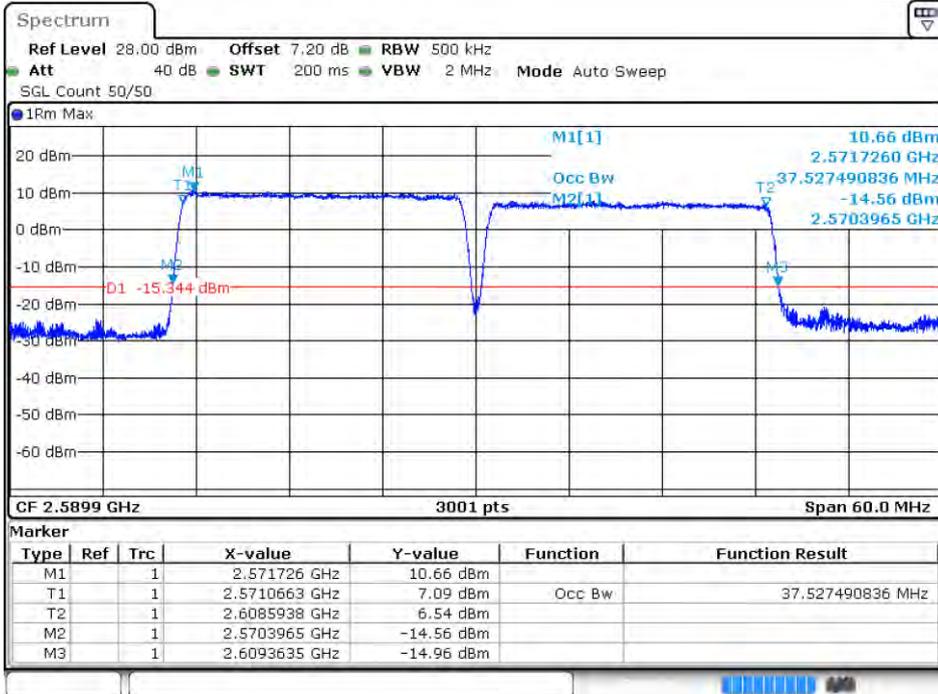
CA\_38C 20MHz+20MHz\_16QAM\_37952+38150\_100RB#0+100RB#0



Date: 6 DEC.2020 17:38:18

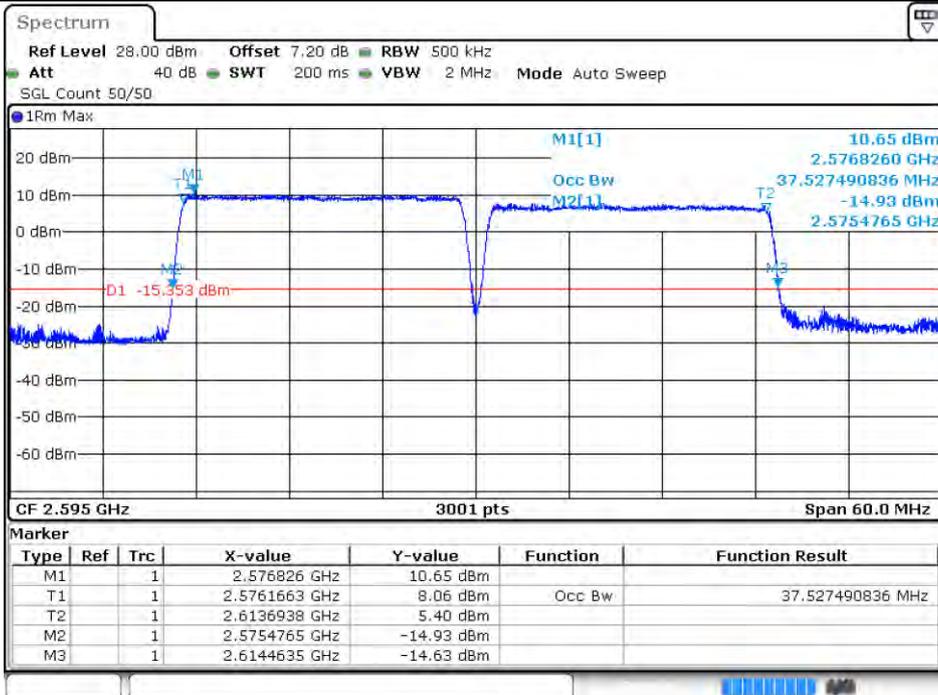


CA\_38C 20MHz+20MHz\_64QAM\_37850+38048\_100RB#0+100RB#0



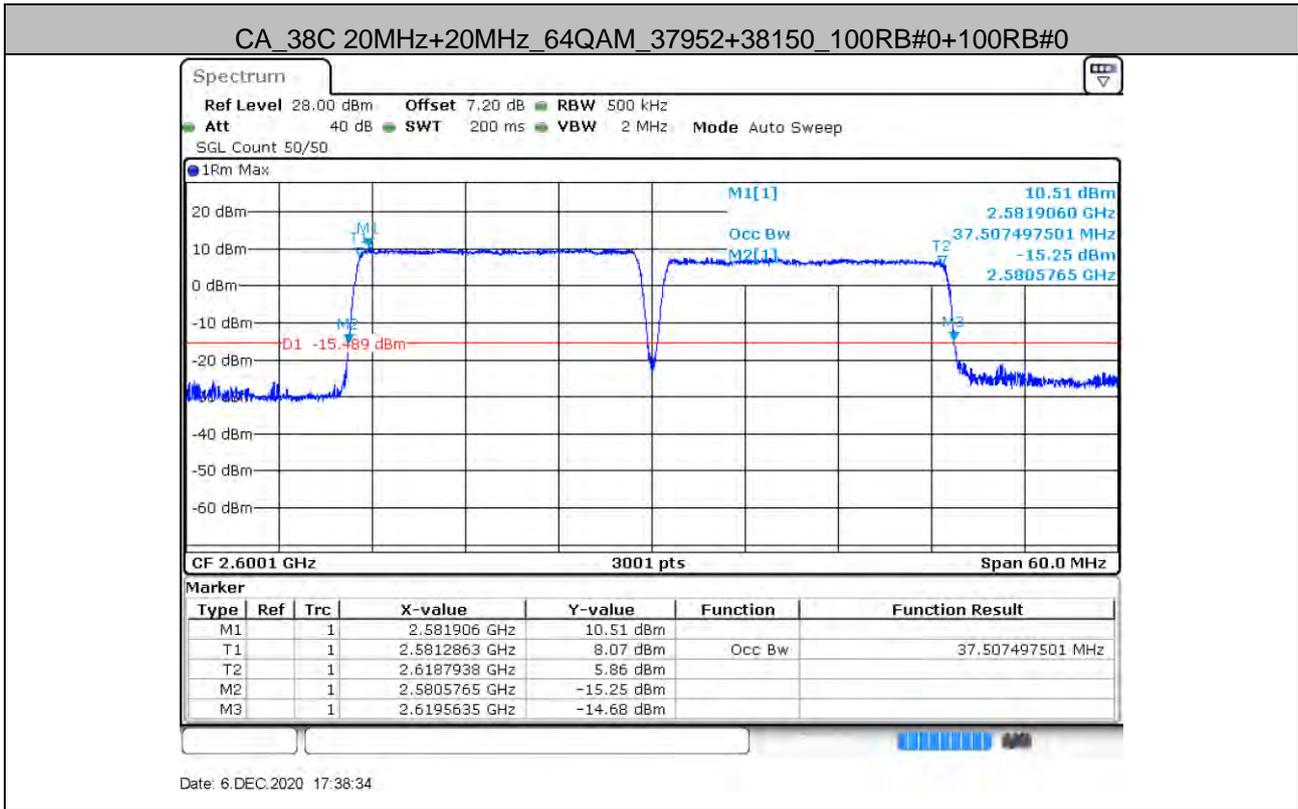
Date: 6 DEC.2020 17:36:30

CA\_38C 20MHz+20MHz\_64QAM\_37901+38099\_100RB#0+100RB#0



Date: 6 DEC.2020 17:37:32





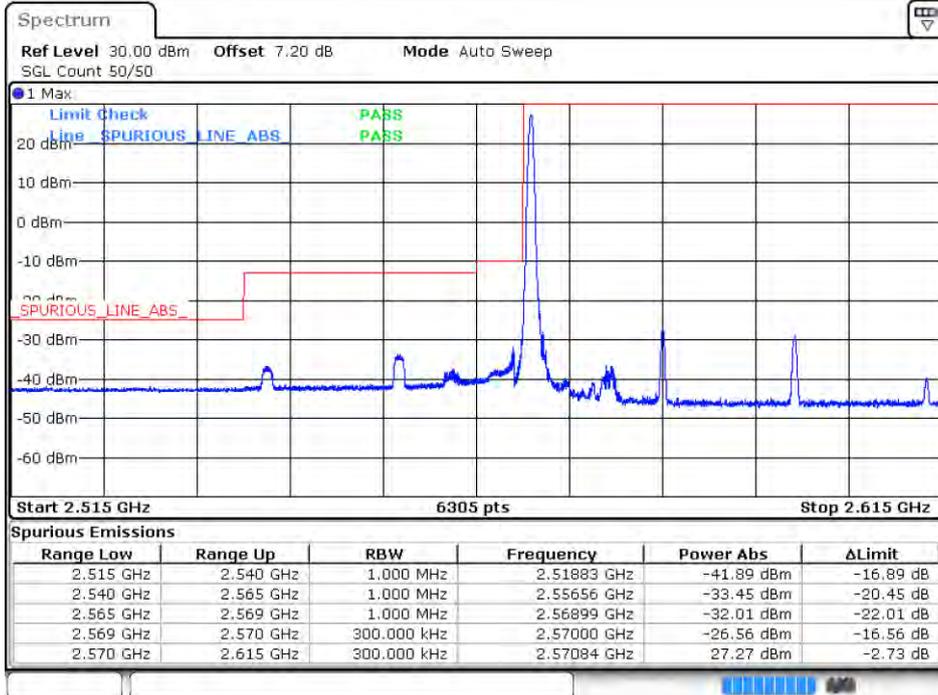


## 5 Band Edges Compliance

### 5.1 For LTE

#### 5.1.1 Test Band = LTE Band CA\_38C

CA\_38C\_75RB+75RB\_QPSK\_37825+37975\_1RB#0+0RB#0



Date: 6.DEC.2020 18:02:43

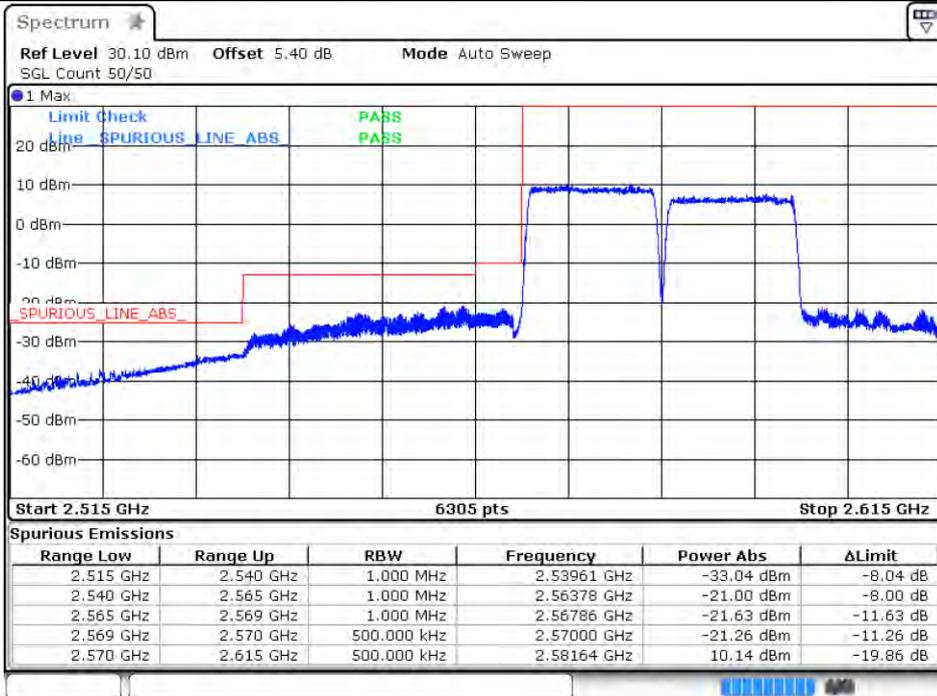


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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.

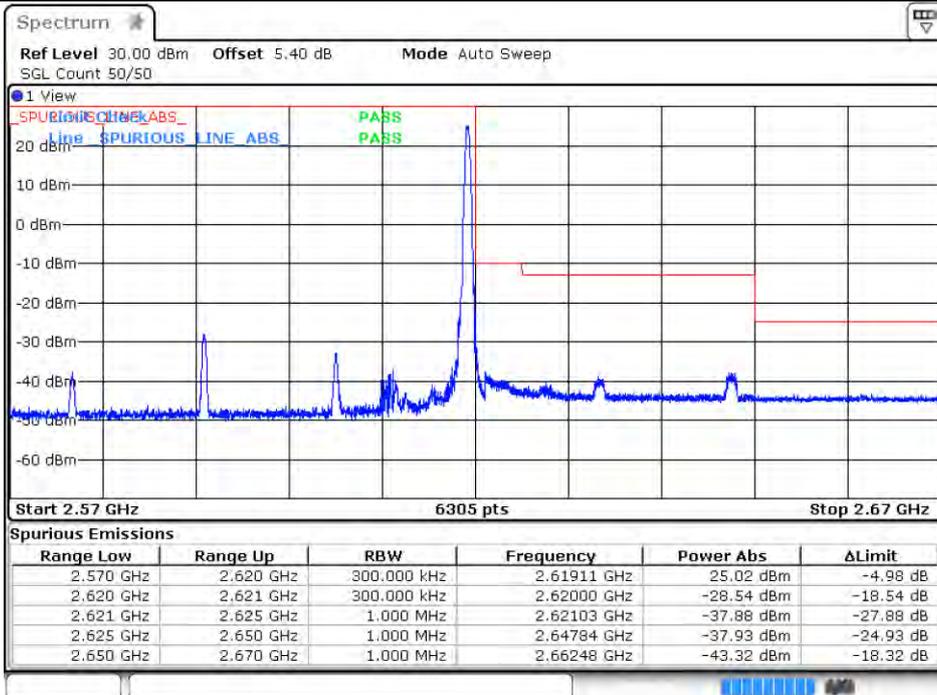
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**CA\_38C\_75RB+75RB\_QPSK\_37825+37975\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:41:11

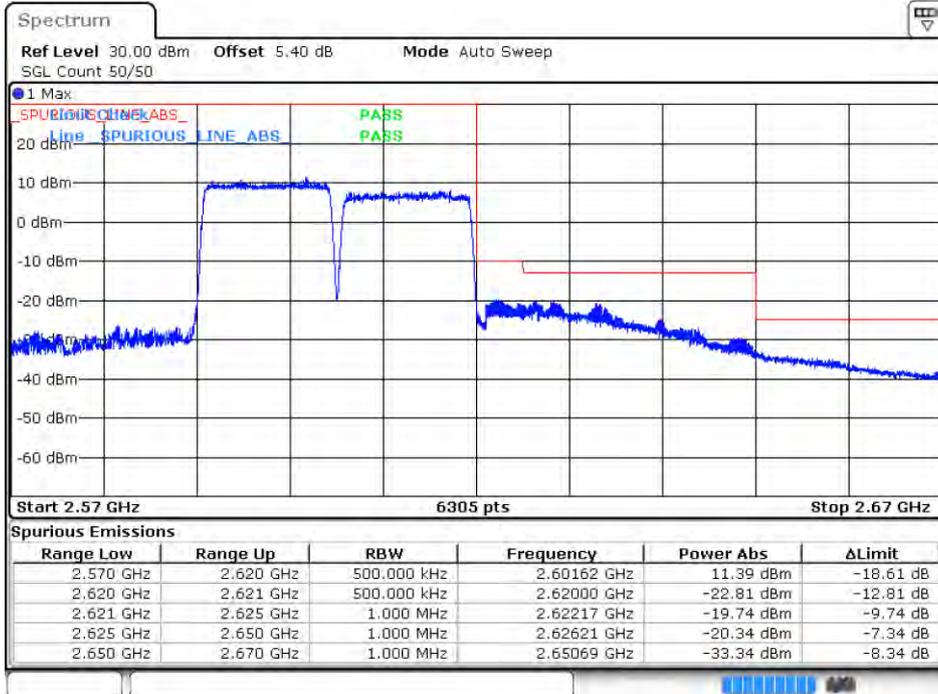
**CA\_38C\_75RB+75RB\_QPSK\_38025+38175\_0RB#0+1RB#74**



Date: 6.DEC.2020 17:43:47

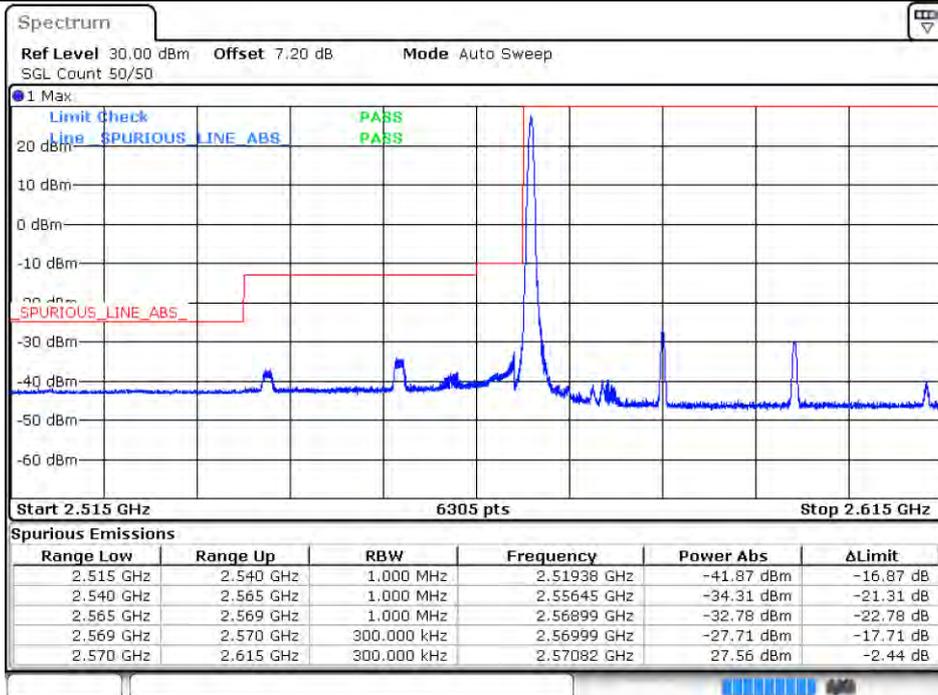


**CA\_38C\_75RB+75RB\_QPSK\_38025+38175\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:46:06

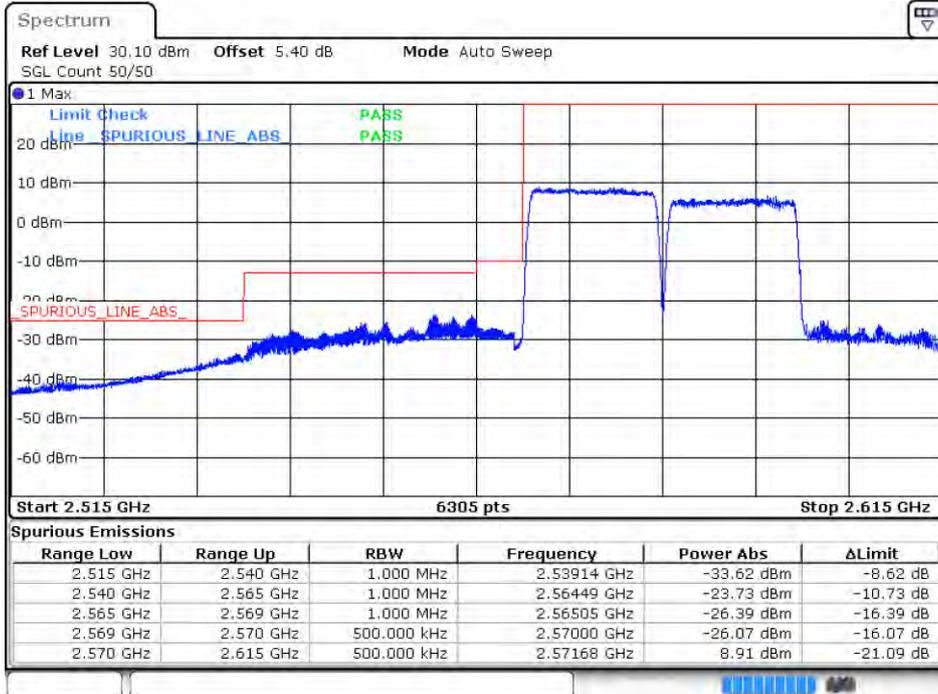
**CA\_38C\_75RB+75RB\_16QAM\_37825+37975\_1RB#0+0RB#0**



Date: 6.DEC.2020 18:03:11

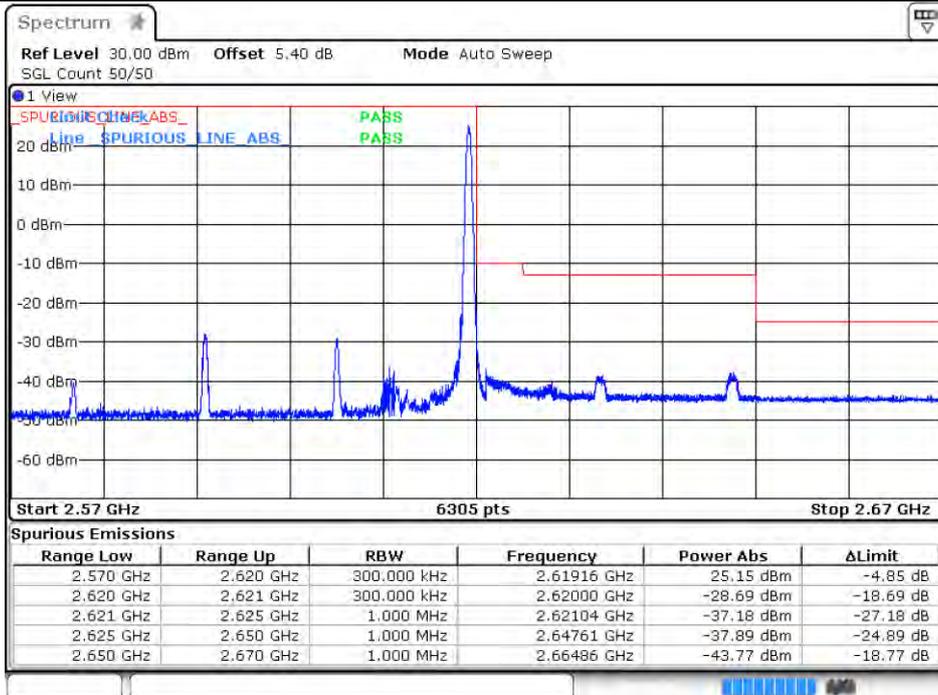


**CA\_38C\_75RB+75RB\_16QAM\_37825+37975\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:41:39

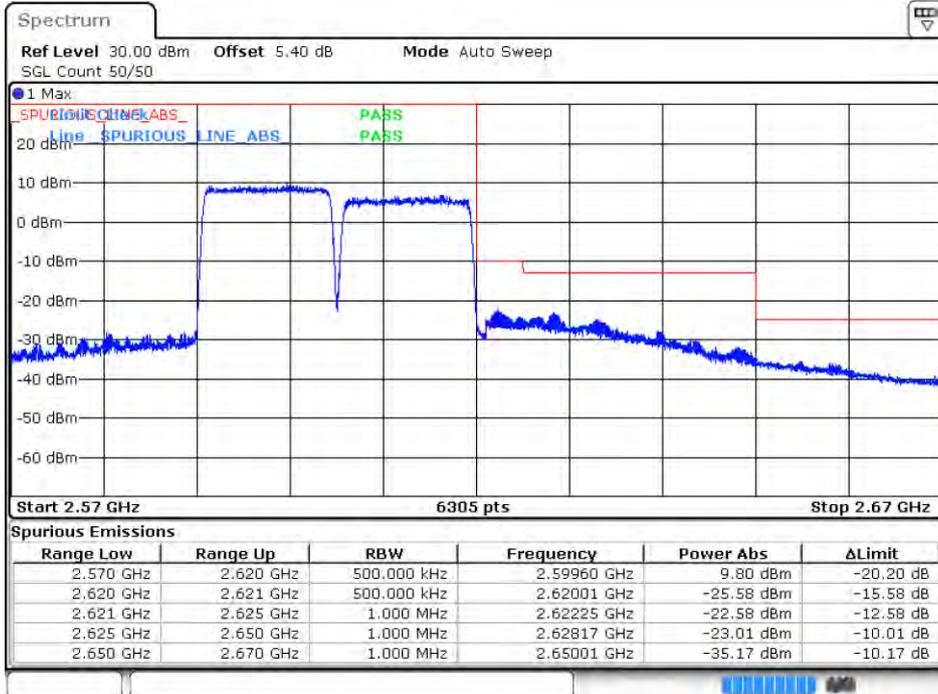
**CA\_38C\_75RB+75RB\_16QAM\_38025+38175\_0RB#0+1RB#74**



Date: 6.DEC.2020 17:44:40

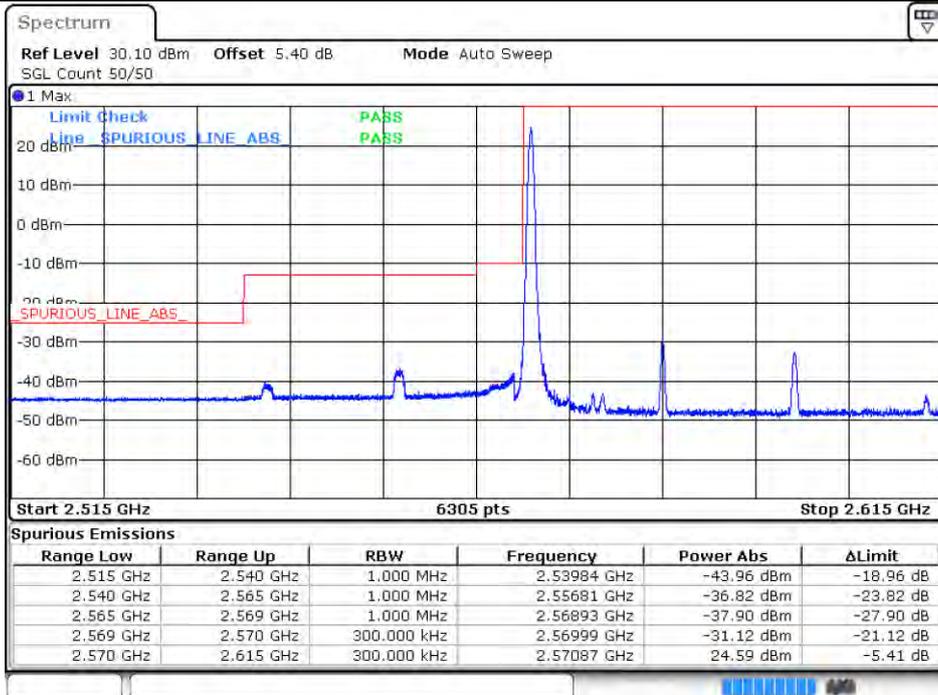


**CA\_38C\_75RB+75RB\_16QAM\_38025+38175\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:46:27

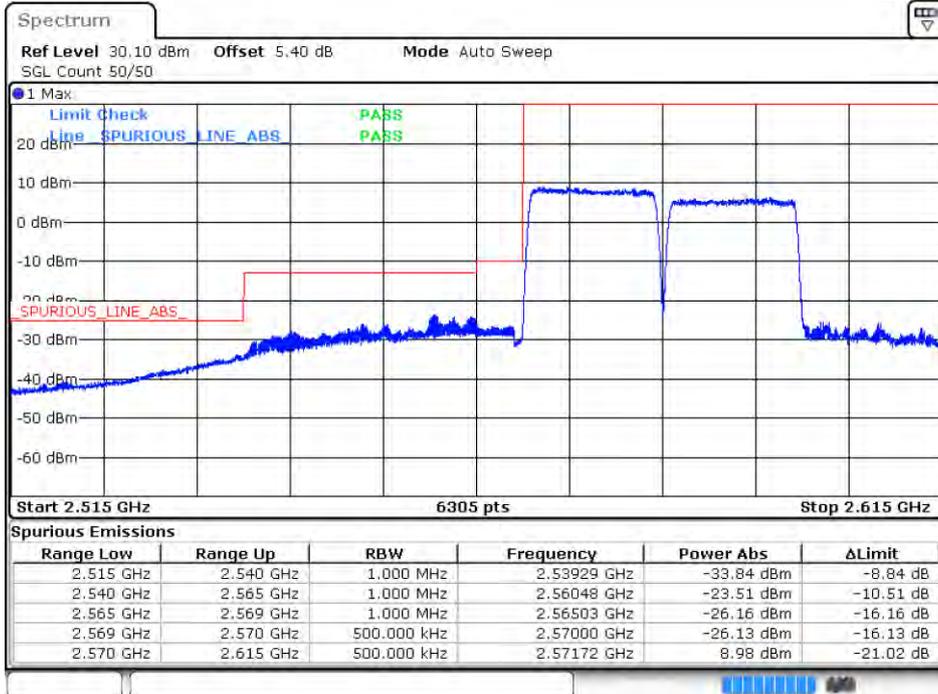
**CA\_38C\_75RB+75RB\_64QAM\_37825+37975\_1RB#0+0RB#0**



Date: 6.DEC.2020 17:40:15

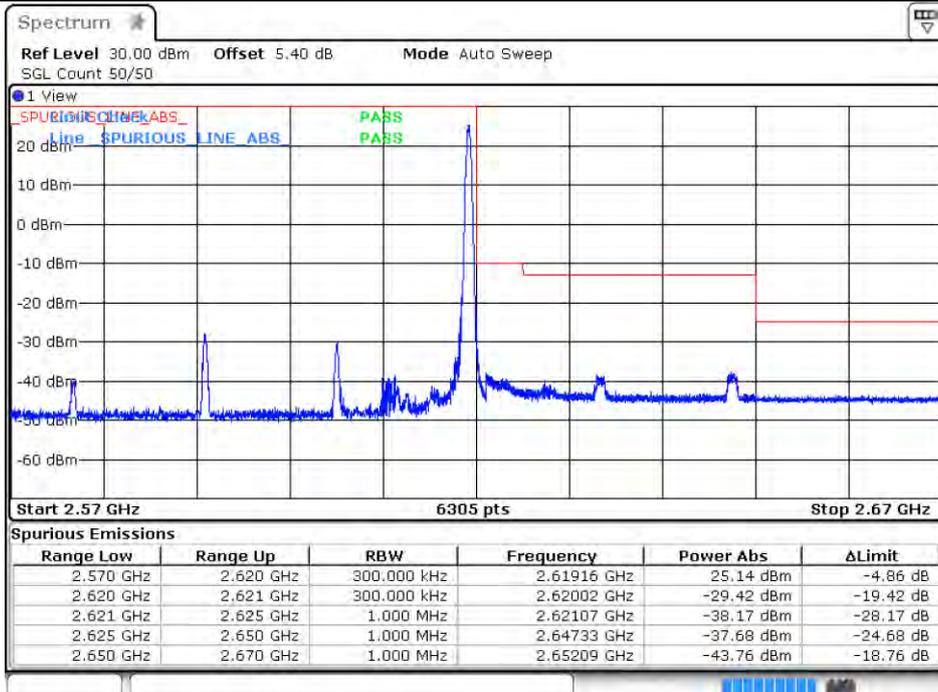


**CA\_38C\_75RB+75RB\_64QAM\_37825+37975\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:42:08

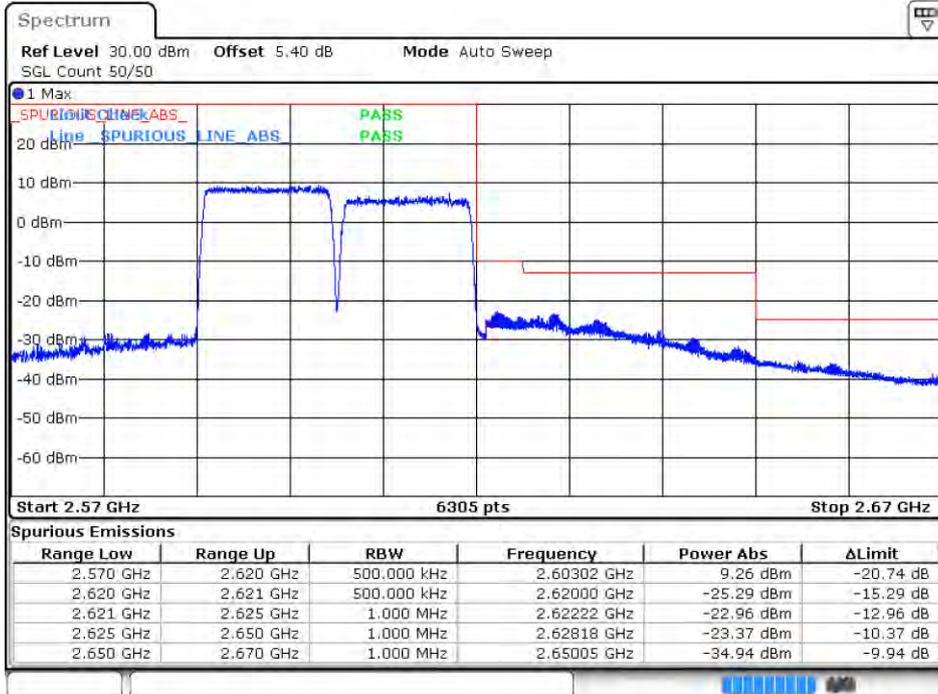
**CA\_38C\_75RB+75RB\_64QAM\_38025+38175\_0RB#0+1RB#74**



Date: 6.DEC.2020 17:45:37

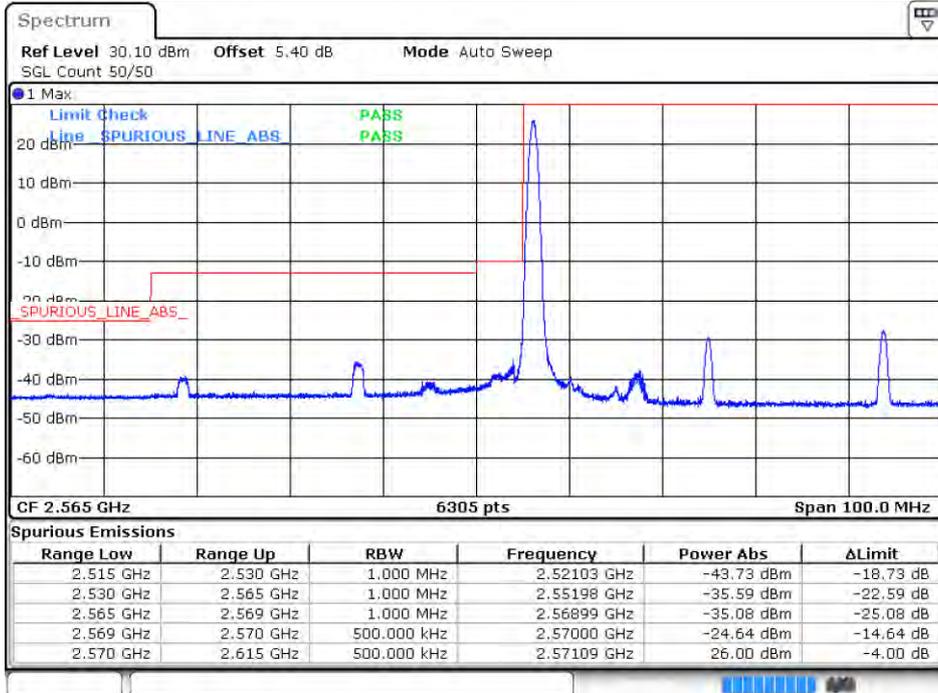


**CA\_38C\_75RB+75RB\_64QAM\_38025+38175\_75RB#0+75RB#0**



Date: 6.DEC.2020 17:46:47

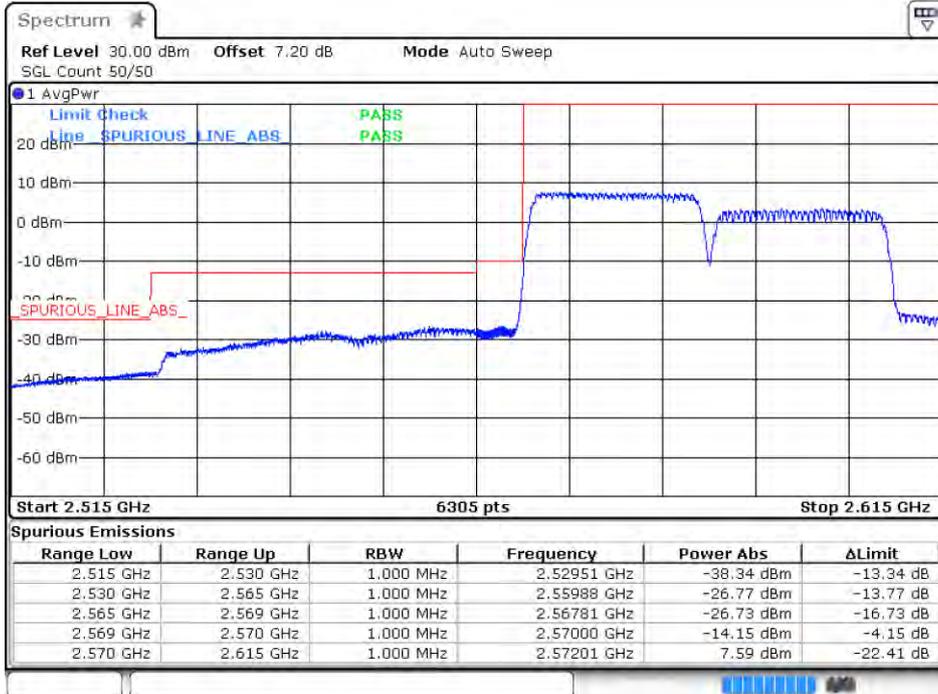
**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_1RB#0+0RB#0**



Date: 6.DEC.2020 17:47:33

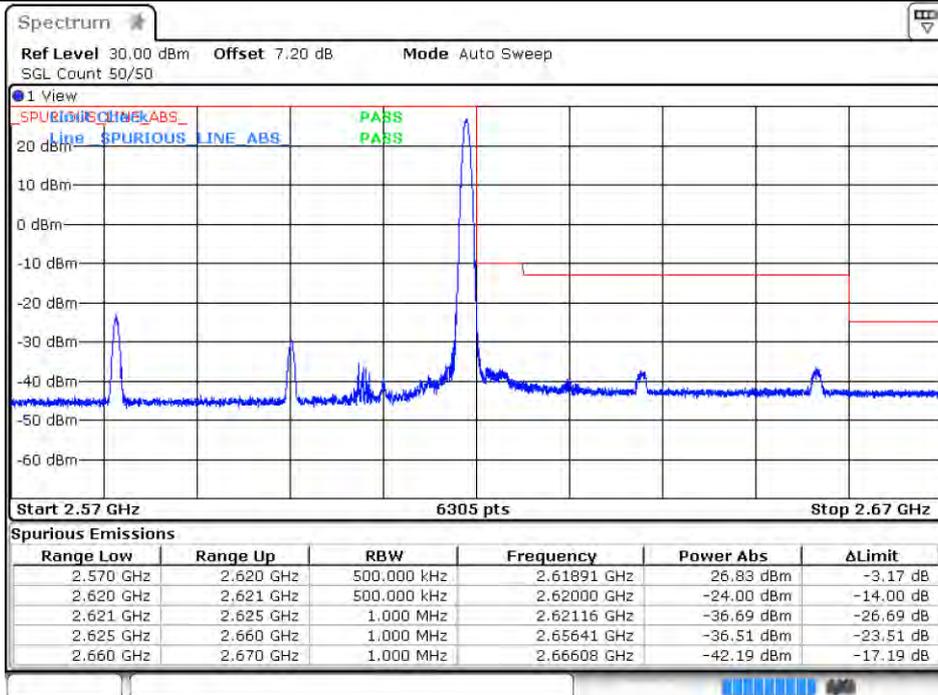


**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_100RB#0+100RB#0**



Date: 6.DEC.2020 18:05:05

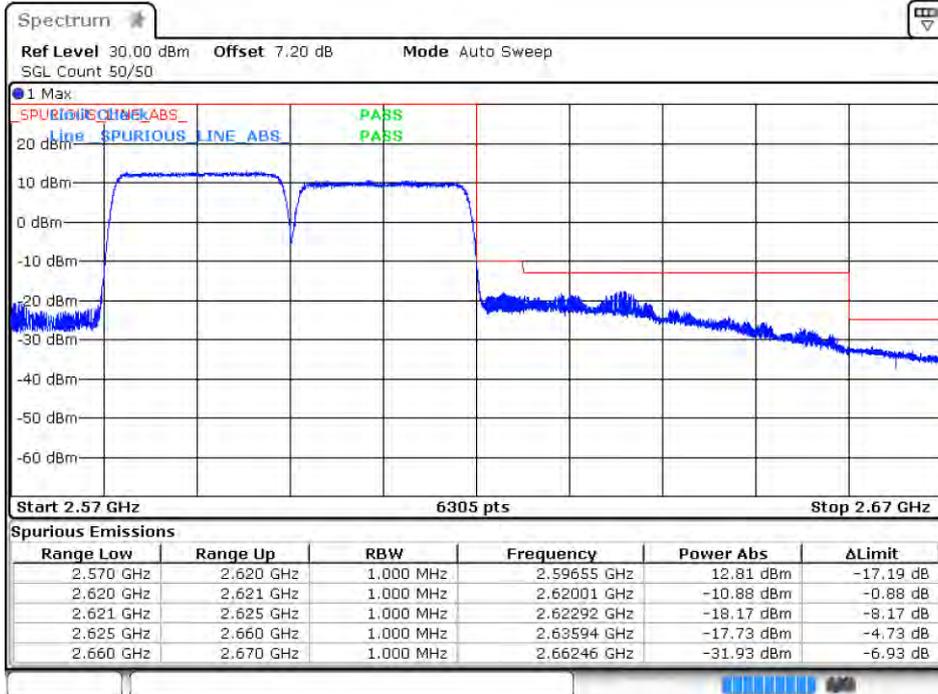
**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_0RB#0+1RB#99**



Date: 6.DEC.2020 18:07:35

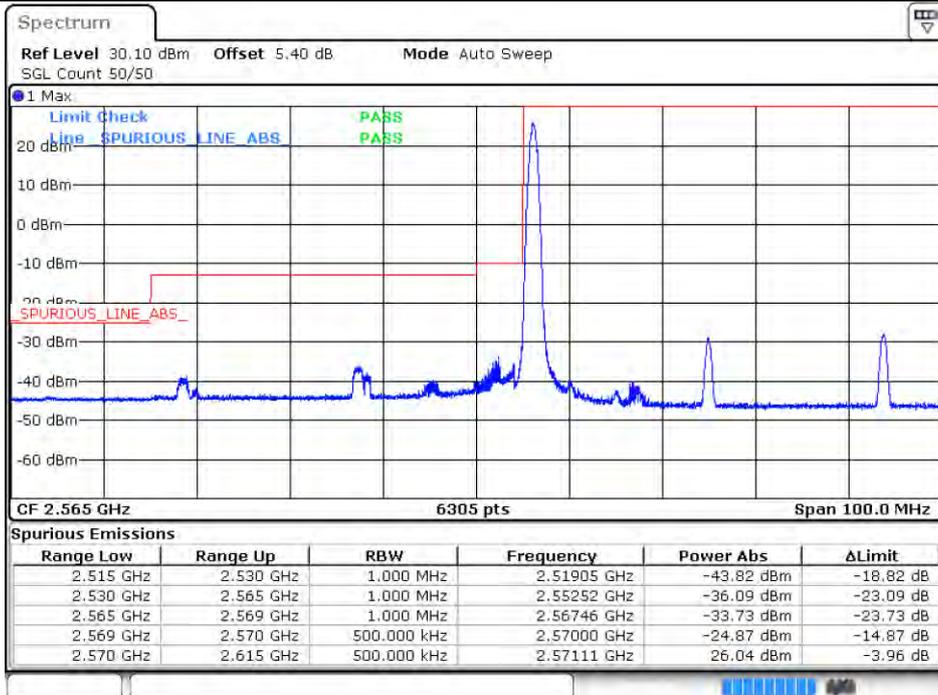


**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_100RB#0+100RB#0**



Date: 6.DEC.2020 18:09:45

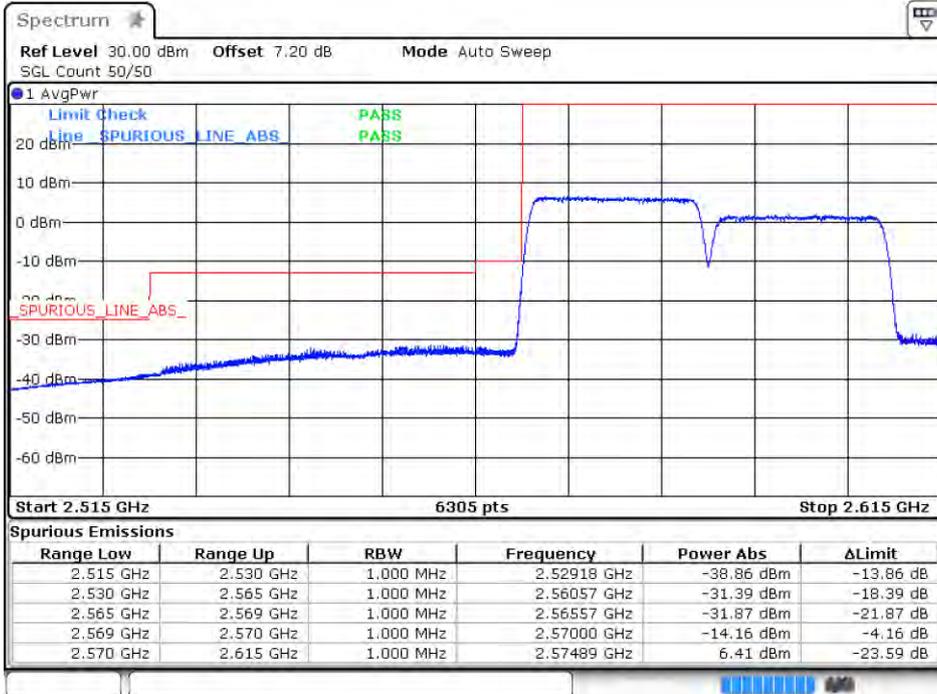
**CA\_38C\_100RB+100RB\_16QAM\_37850+38048\_1RB#0+0RB#0**



Date: 6.DEC.2020 17:48:01

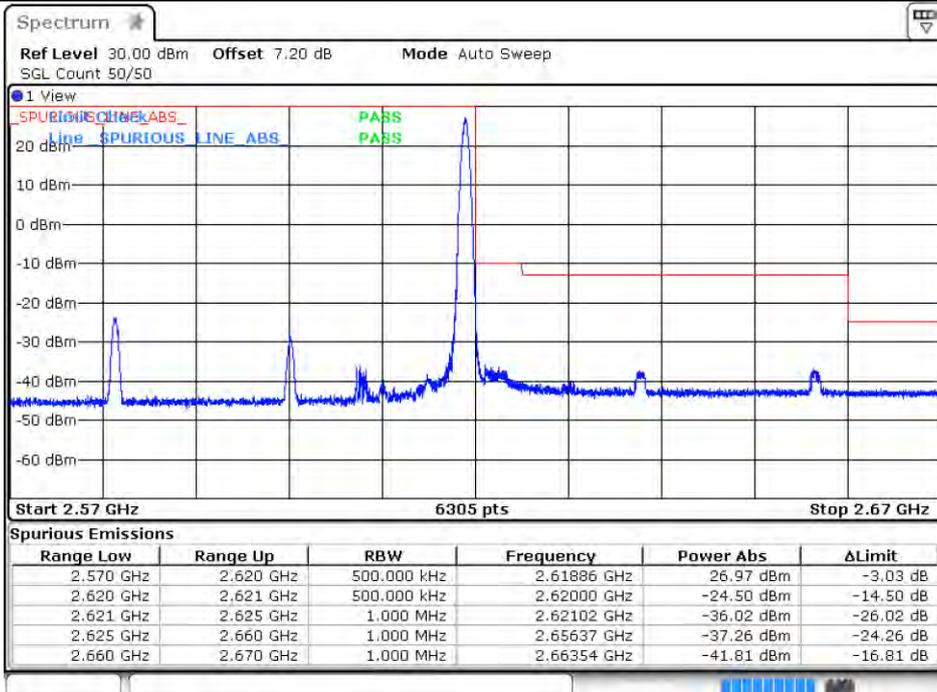


**CA\_38C\_100RB+100RB\_16QAM\_37850+38048\_100RB#0+100RB#0**



Date: 6.DEC.2020 18:05:46

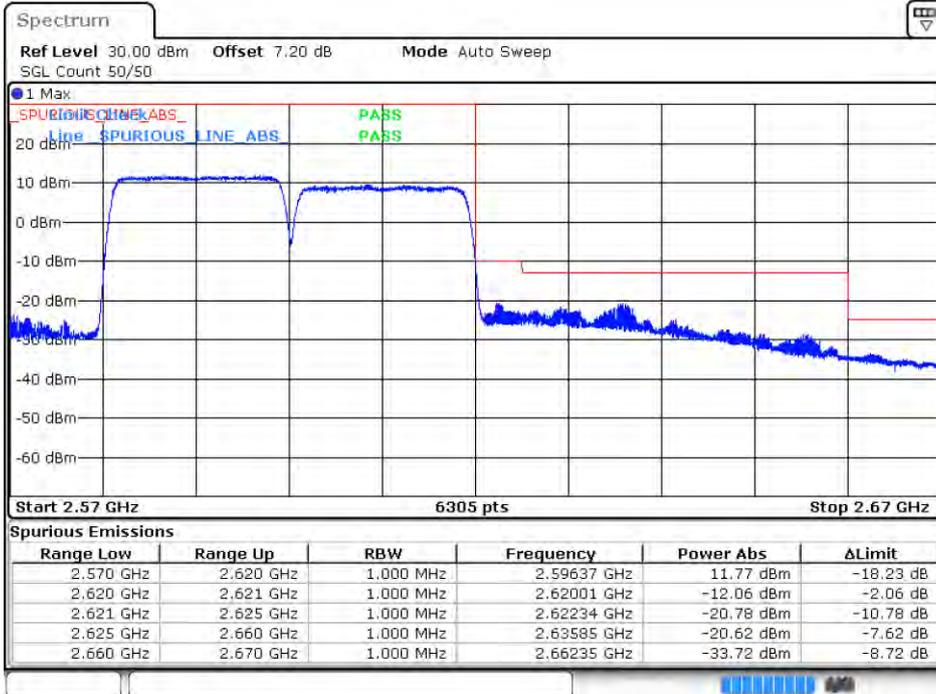
**CA\_38C\_100RB+100RB\_16QAM\_37952+38150\_0RB#0+1RB#99**



Date: 6.DEC.2020 18:08:10

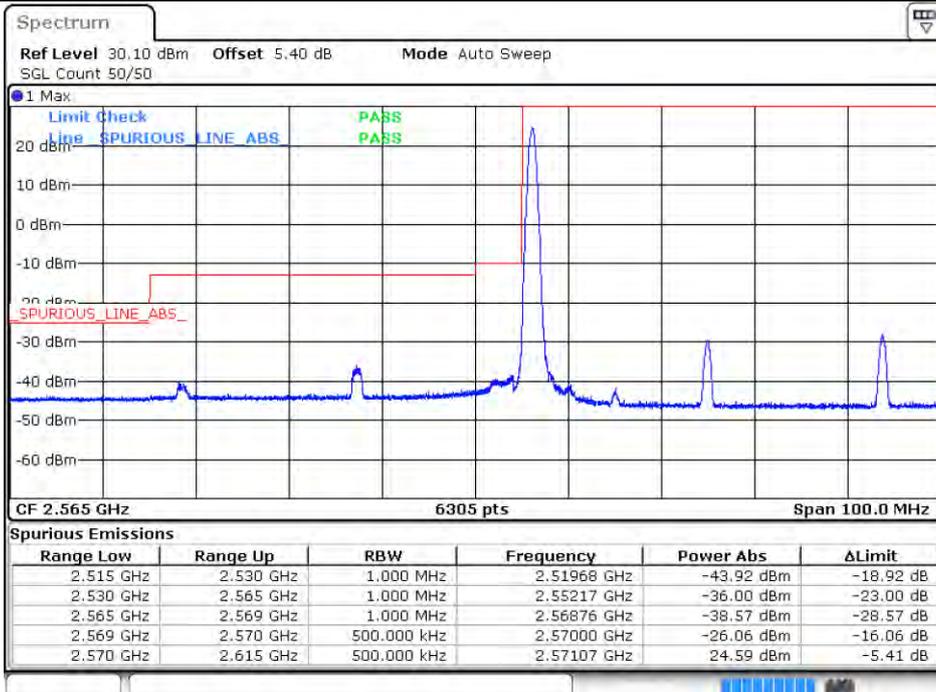


**CA\_38C\_100RB+100RB\_16QAM\_37952+38150\_100RB#0+100RB#0**



Date: 6.DEC.2020 18:10:14

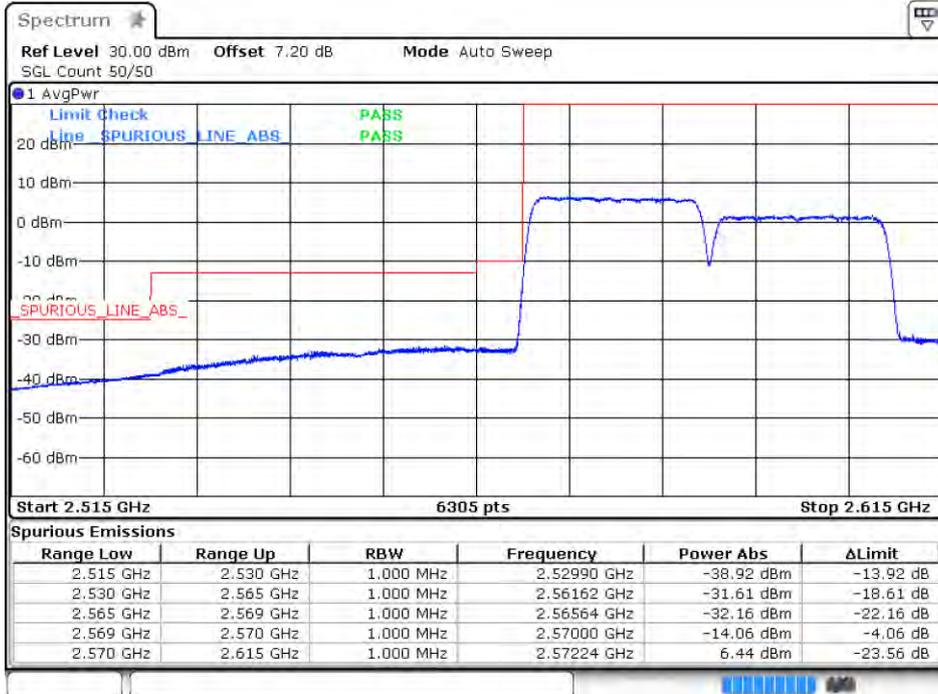
**CA\_38C\_100RB+100RB\_64QAM\_37850+38048\_1RB#0+0RB#0**



Date: 6.DEC.2020 17:48:29

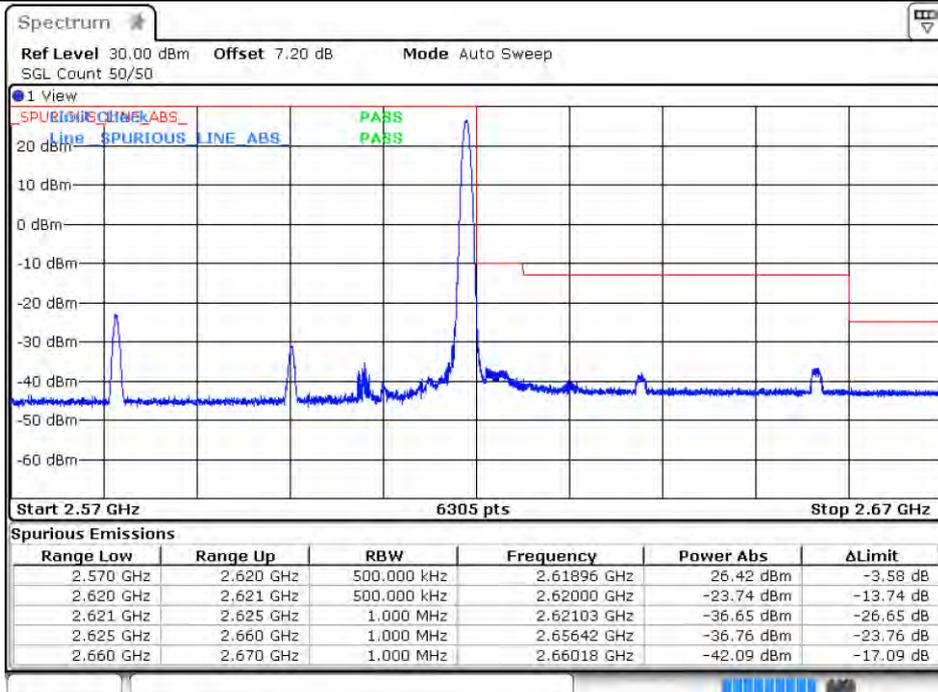


**CA\_38C\_100RB+100RB\_64QAM\_37850+38048\_100RB#0+100RB#0**



Date: 6.DEC.2020 18:06:23

**CA\_38C\_100RB+100RB\_64QAM\_37952+38150\_0RB#0+1RB#99**

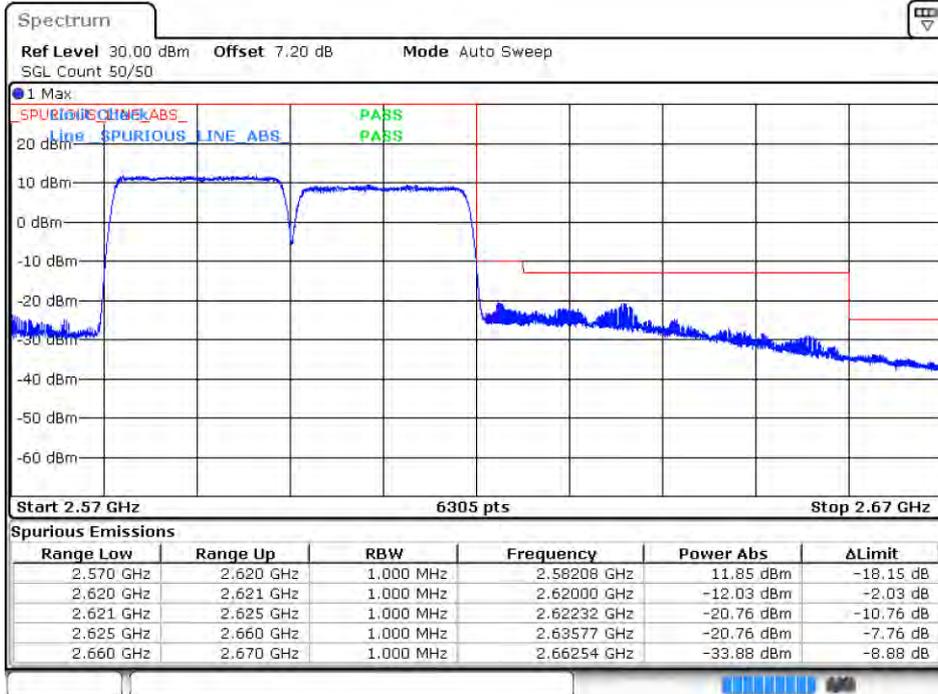


Date: 6.DEC.2020 18:09:01





CA\_38C\_100RB+100RB\_64QAM\_37952+38150\_100RB#0+100RB#0



Date: 6.DEC.2020 18:10:42





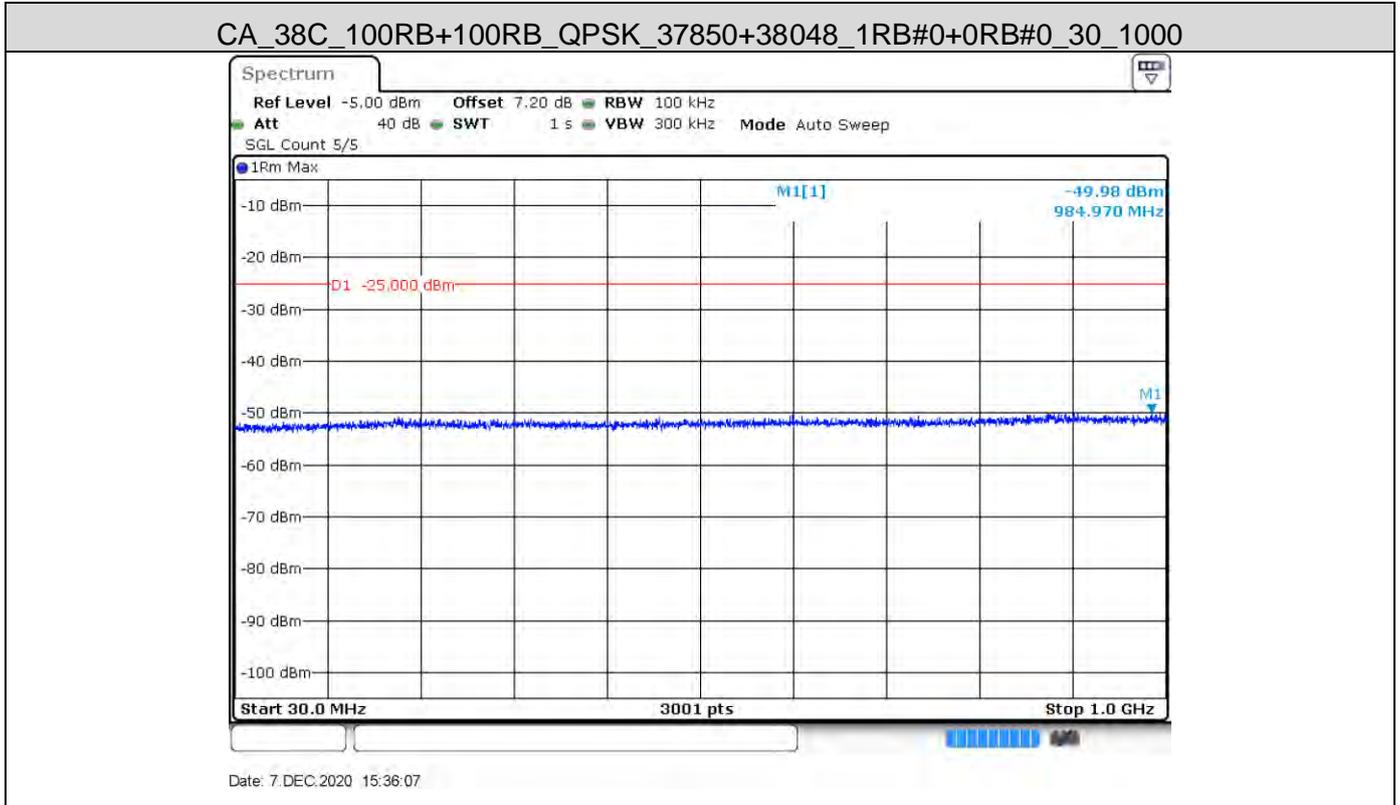
## 6 Spurious Emission at Antenna Terminal

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\_38C

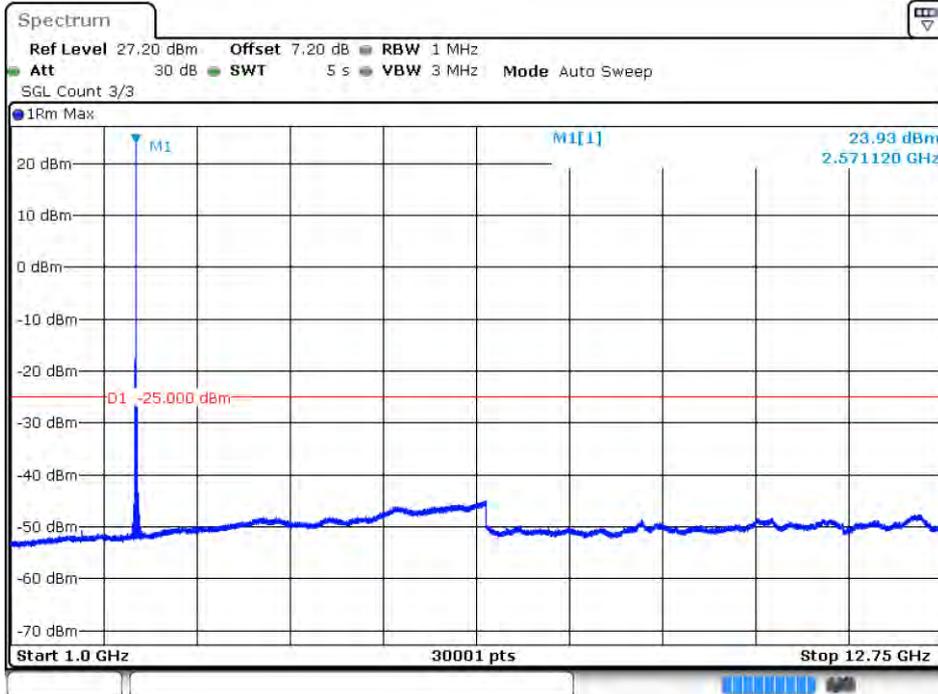


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

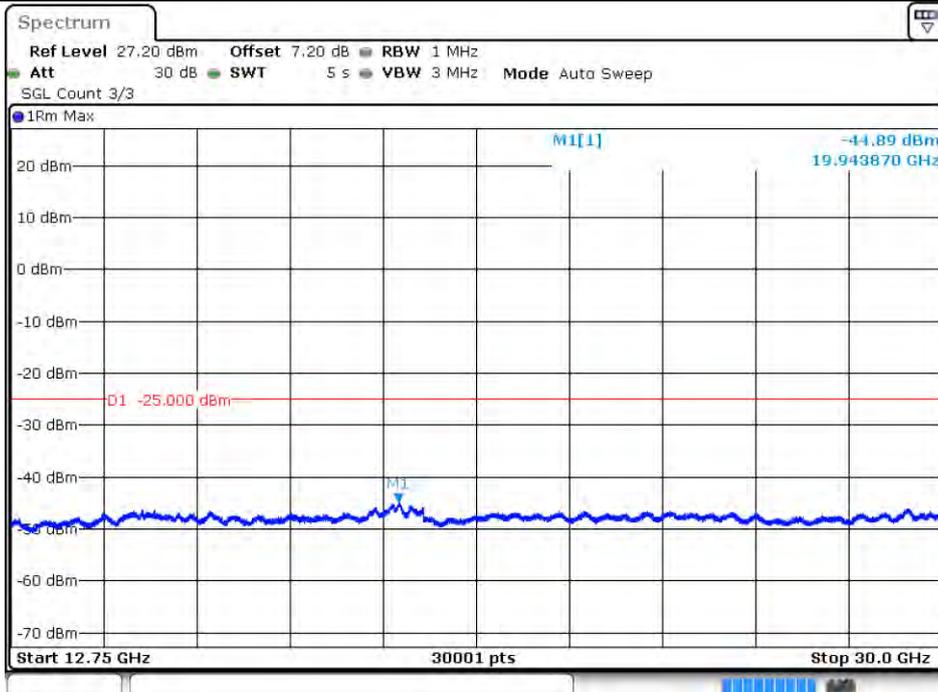


CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_1RB#0+0RB#0\_1000\_12750



Date: 15 DEC.2020 10:31:11

CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_1RB#0+0RB#0\_12750\_30000

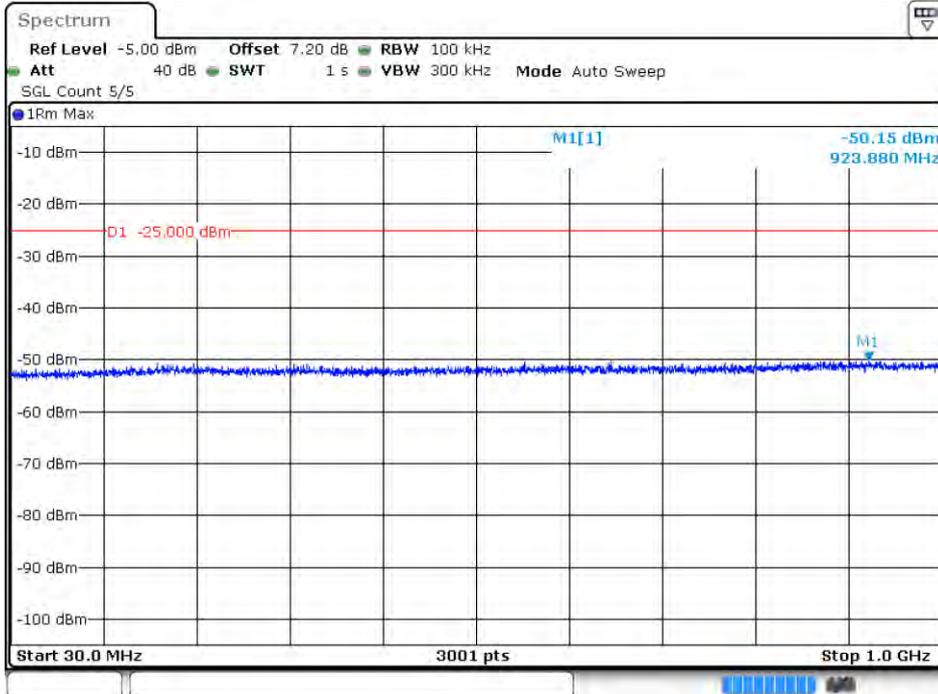


Date: 6 DEC.2020 18:20:44



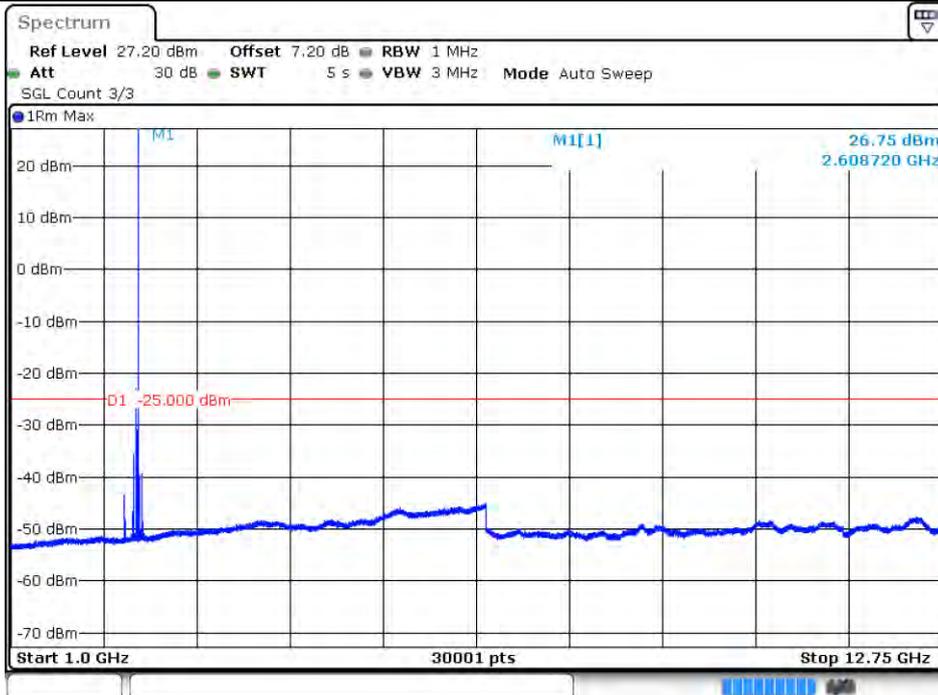


**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_ORB#0+1RB#99\_30\_1000**



Date: 7.DEC.2020 15:36:14

**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_ORB#0+1RB#99\_1000\_12750**

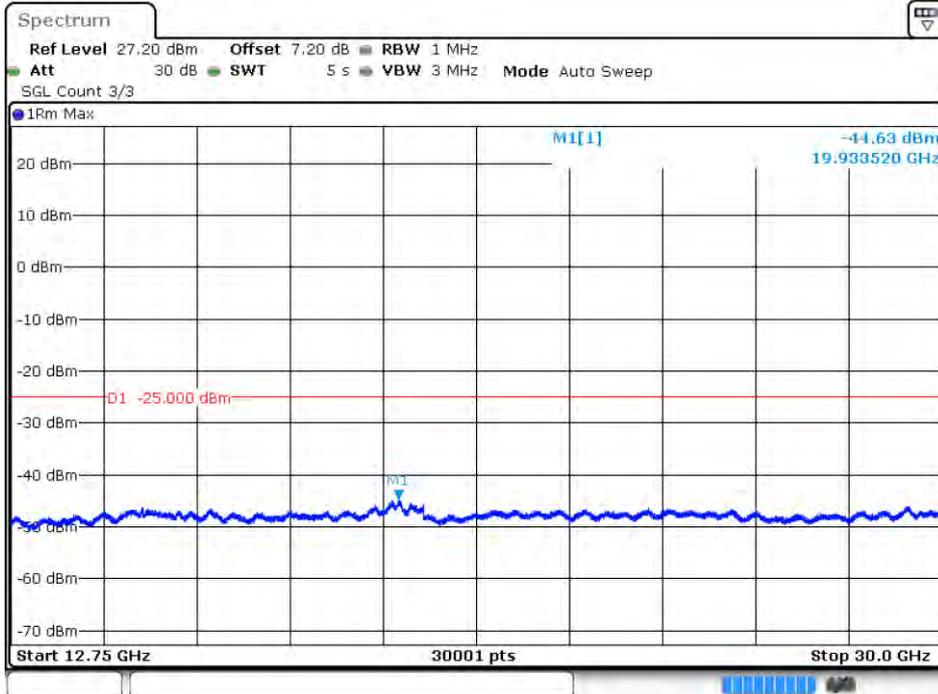


Date: 6.DEC.2020 18:14:14



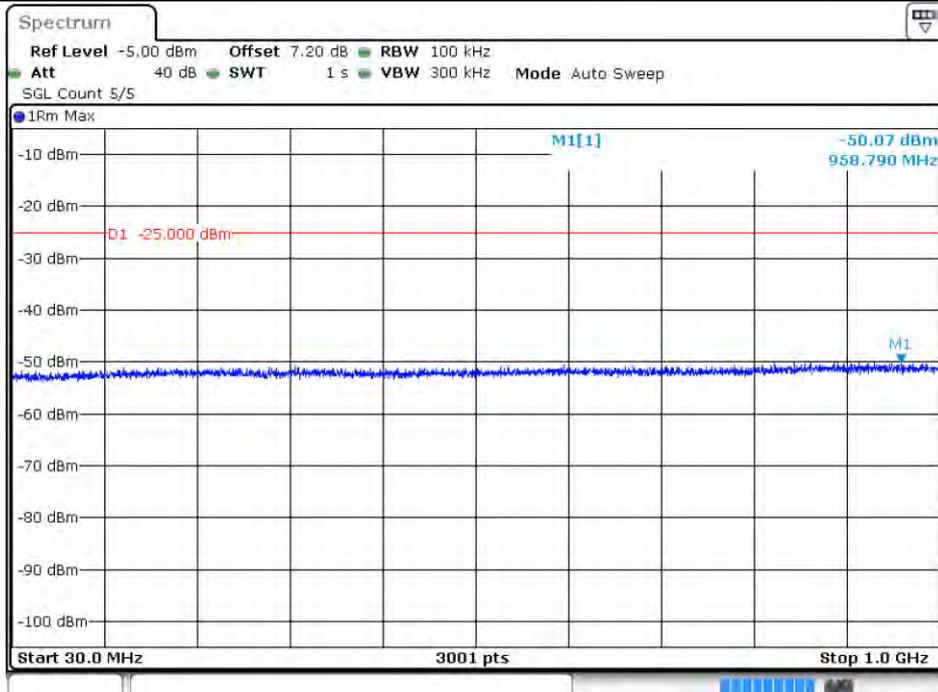


**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_0RB#0+1RB#99\_12750\_30000**



Date: 6.DEC.2020 18:21:01

**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_100RB#0+100RB#0\_30\_1000**

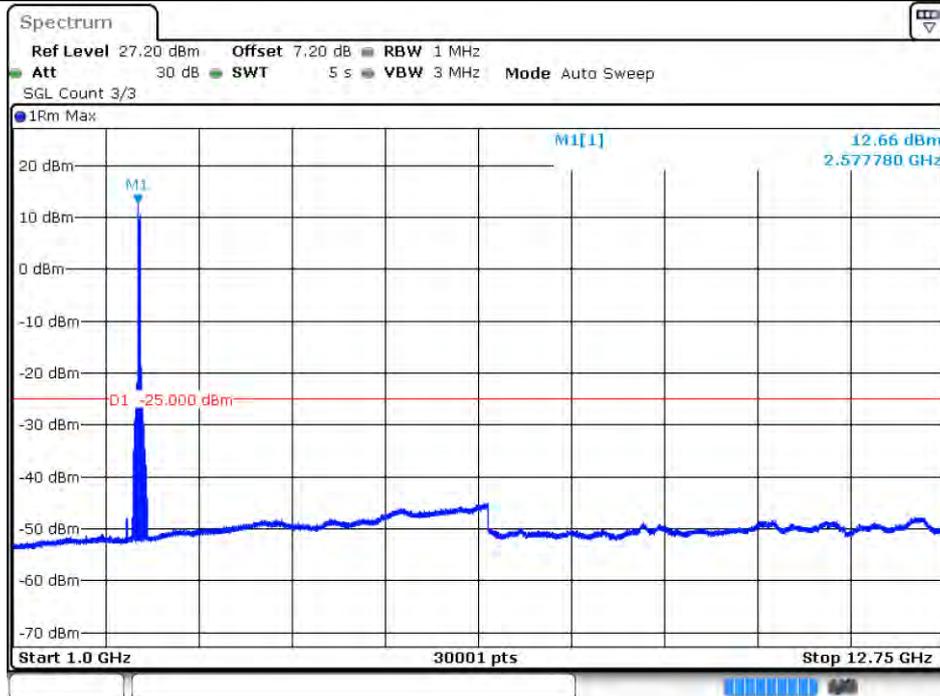


Date: 7.DEC.2020 15:36:20



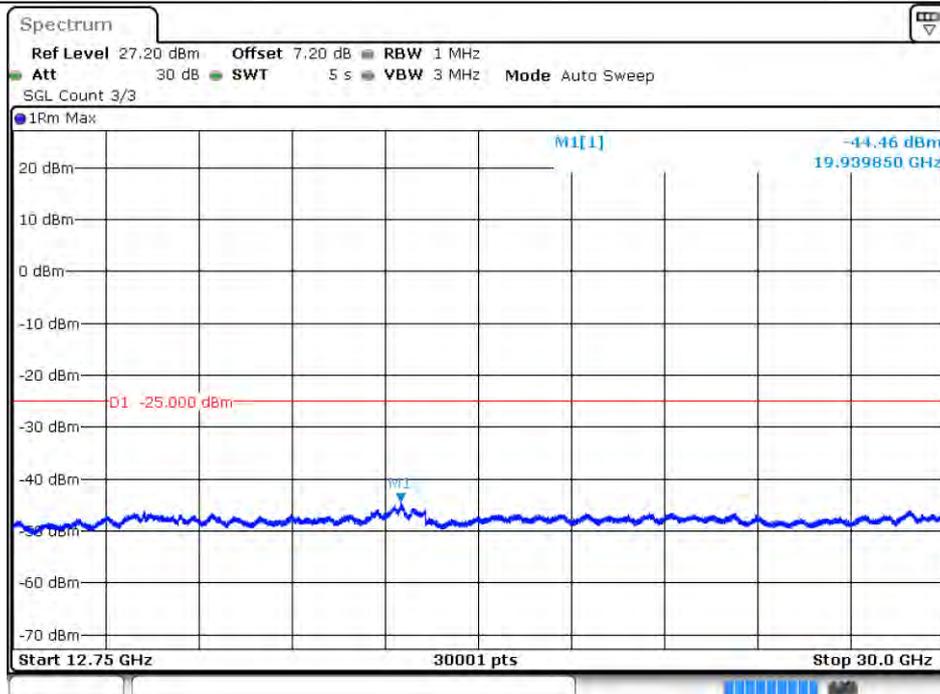


**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_100RB#0+100RB#0\_1000\_12750**



Date: 6.DEC.2020 18:14:31

**CA\_38C\_100RB+100RB\_QPSK\_37850+38048\_100RB#0+100RB#0\_12750\_30000**

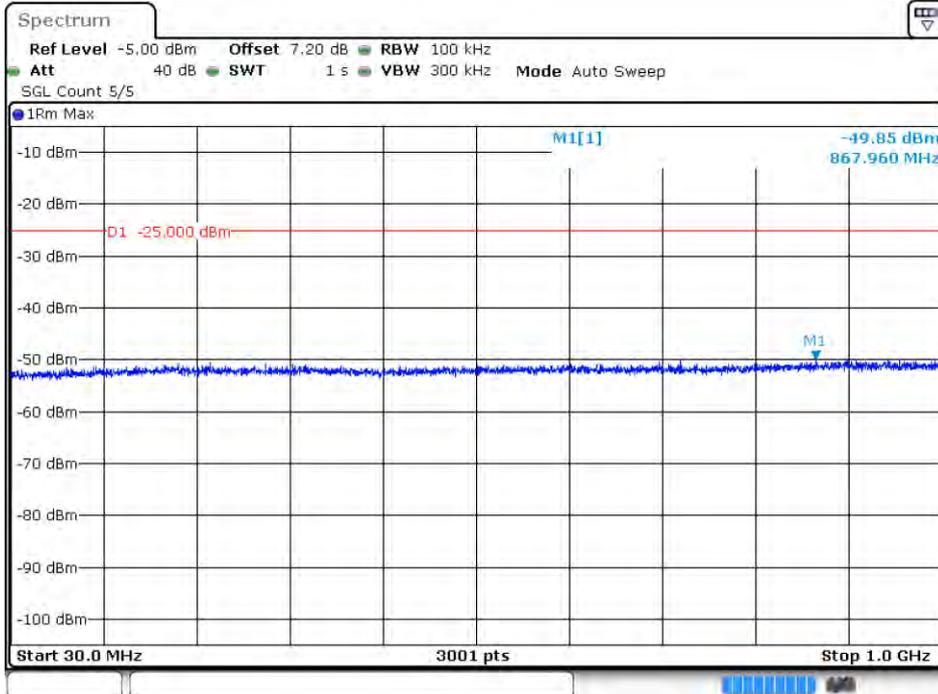


Date: 6.DEC.2020 18:21:18



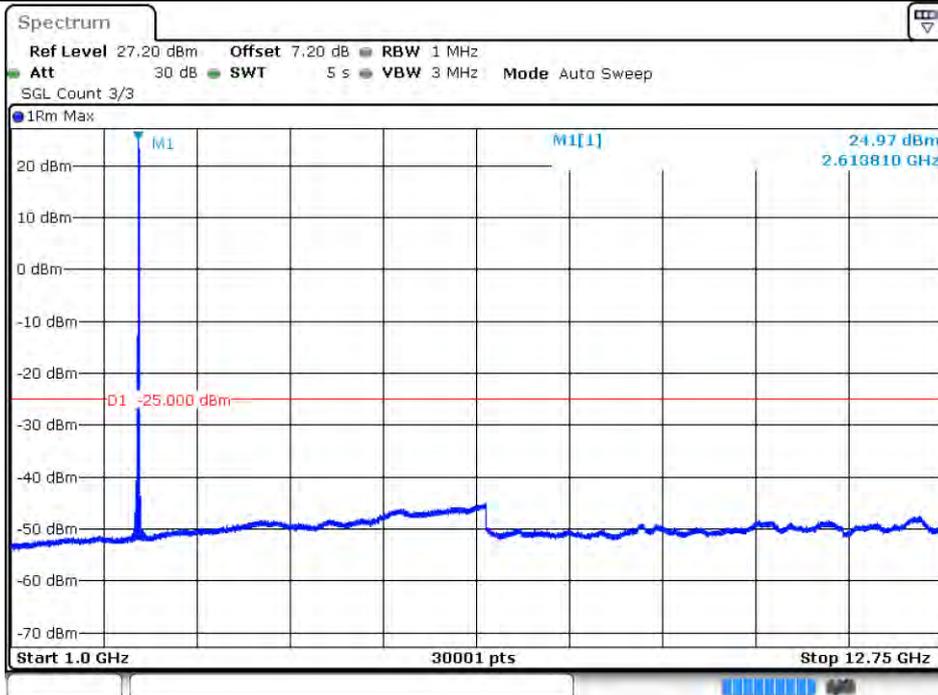


CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_1RB#0+0RB#0\_30\_1000



Date: 6.DEC.2020 18:12:04

CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_1RB#0+0RB#0\_1000\_12750

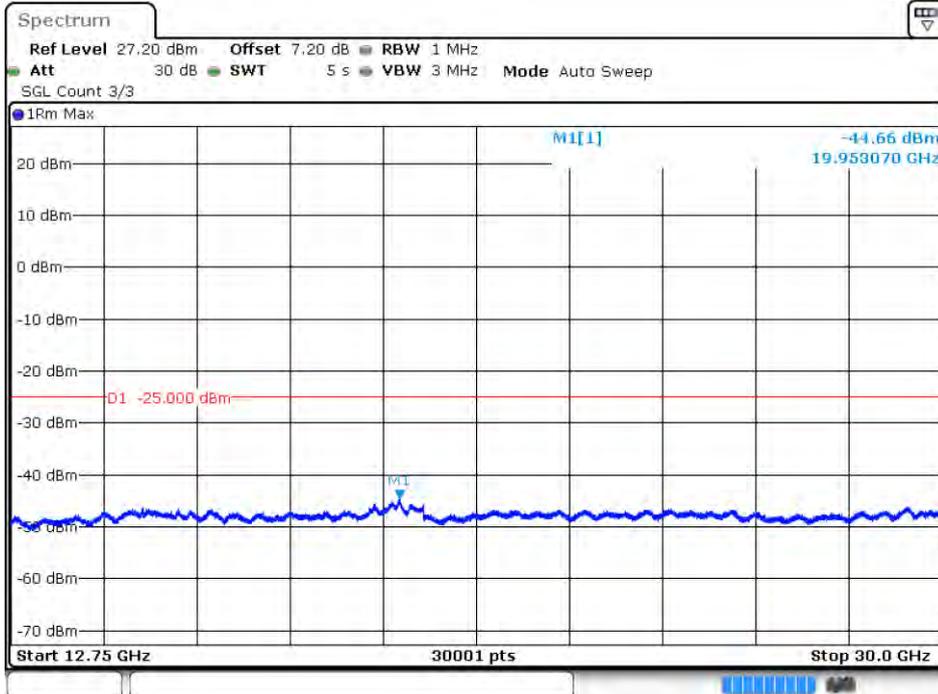


Date: 15.DEC.2020 10:25:43



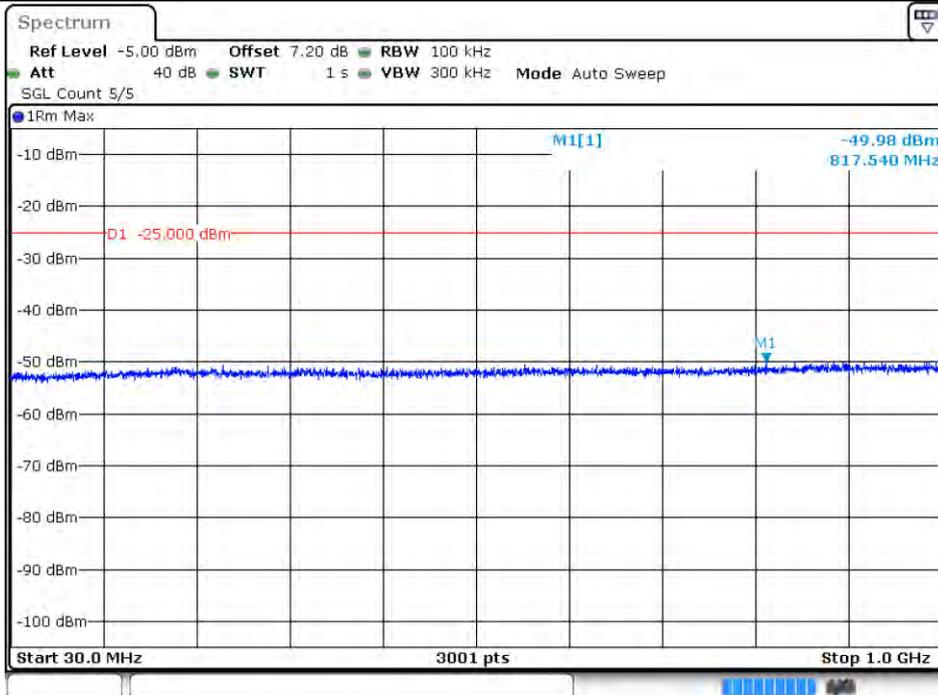


CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_1RB#0+0RB#0\_12750\_30000



Date: 6.DEC.2020 18:23:20

CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_0RB#0+1RB#99\_30\_1000

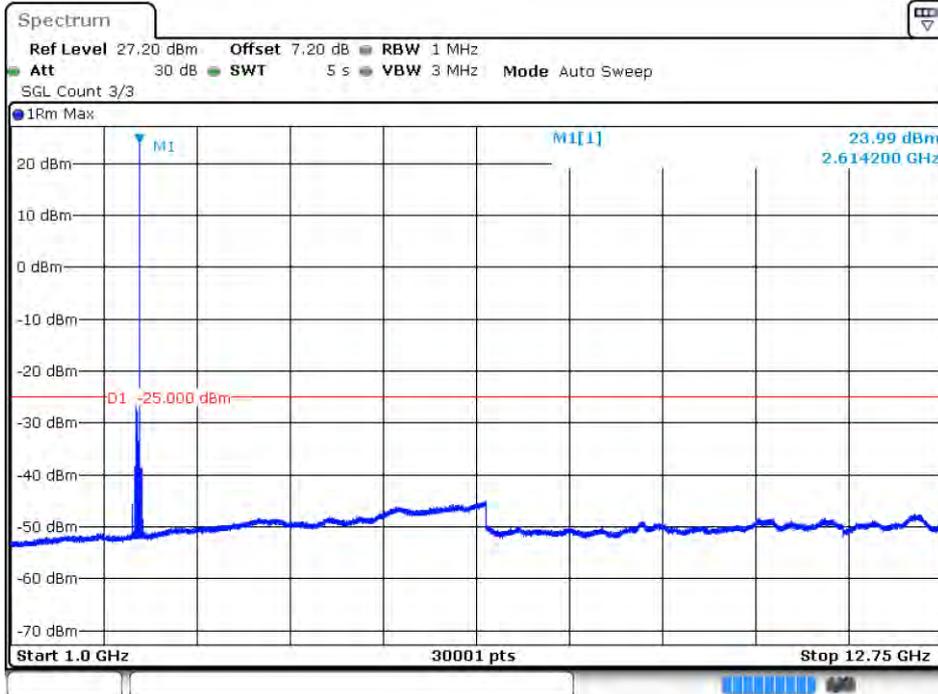


Date: 6.DEC.2020 18:12:11



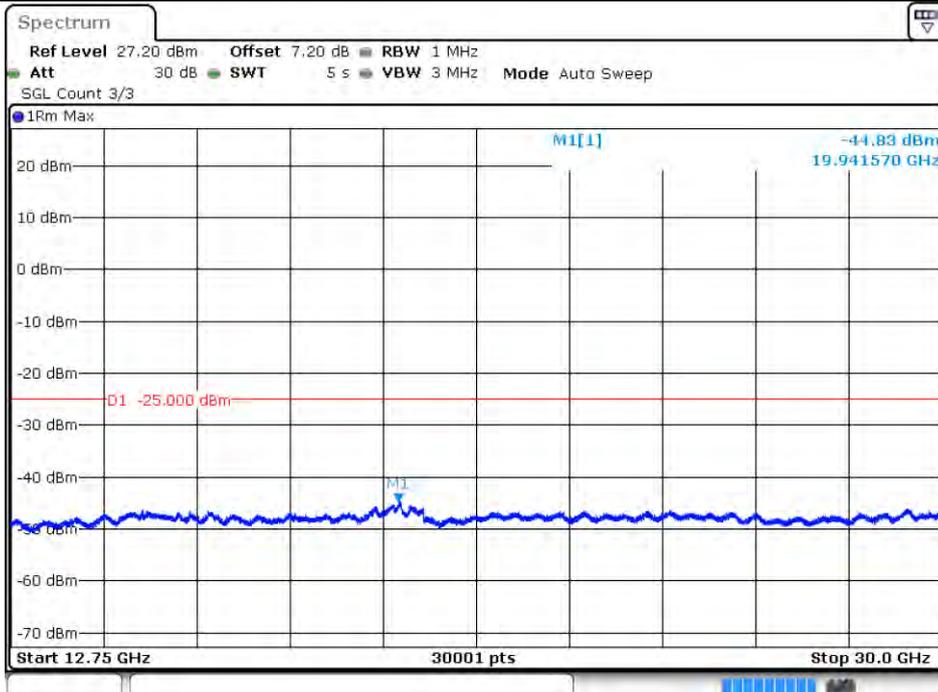


CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_0RB#0+1RB#99\_1000\_12750



Date: 6.DEC.2020 18:16:48

CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_0RB#0+1RB#99\_12750\_30000



Date: 6.DEC.2020 18:23:37

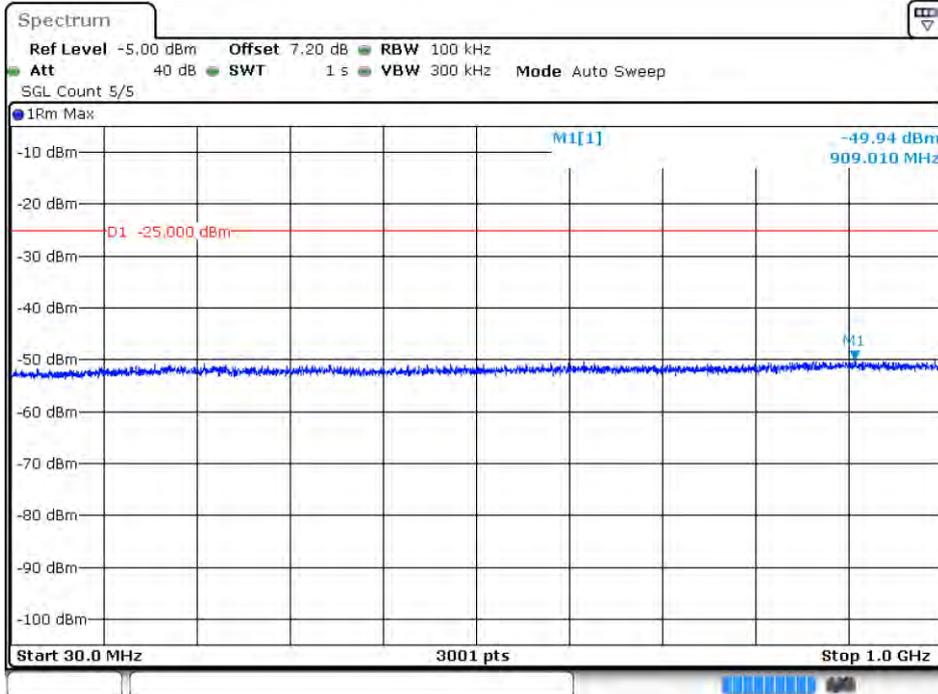


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

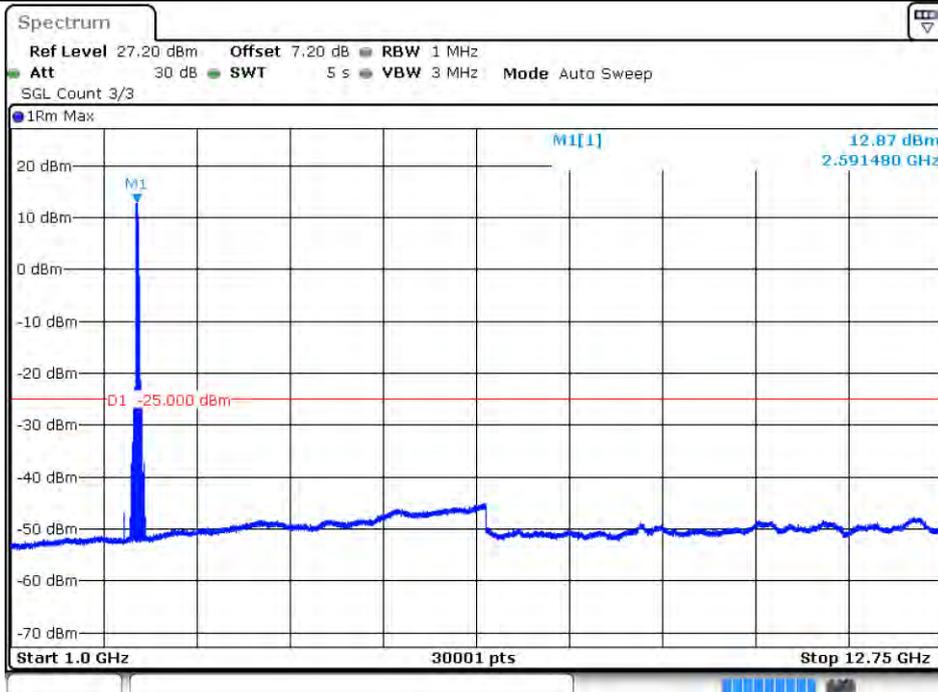


CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_100RB#0+100RB#0\_30\_1000



Date: 6.DEC.2020 18:12:17

CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_100RB#0+100RB#0\_1000\_12750

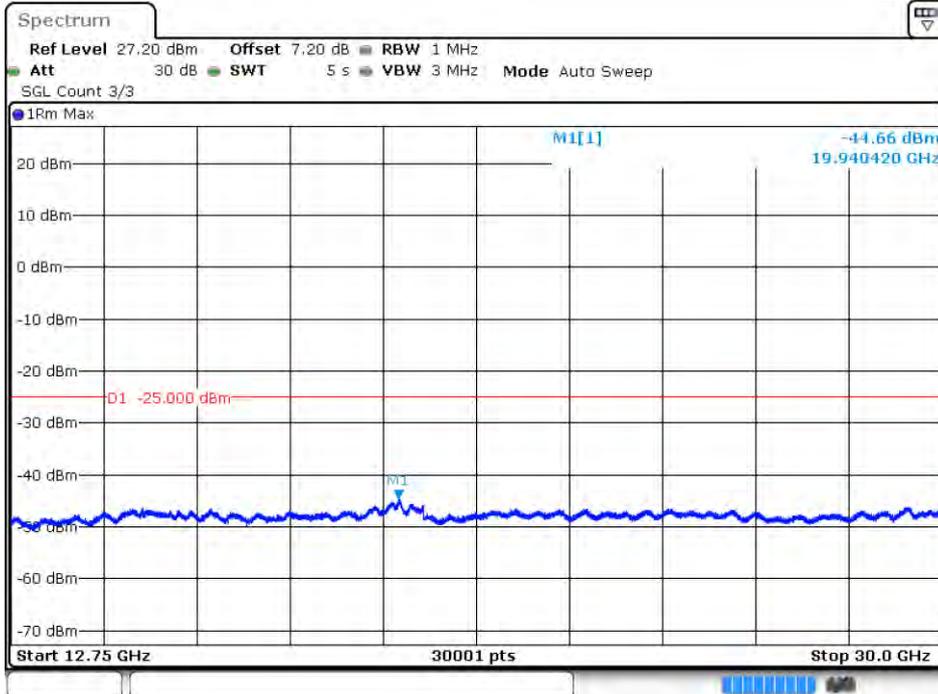


Date: 6.DEC.2020 18:17:06



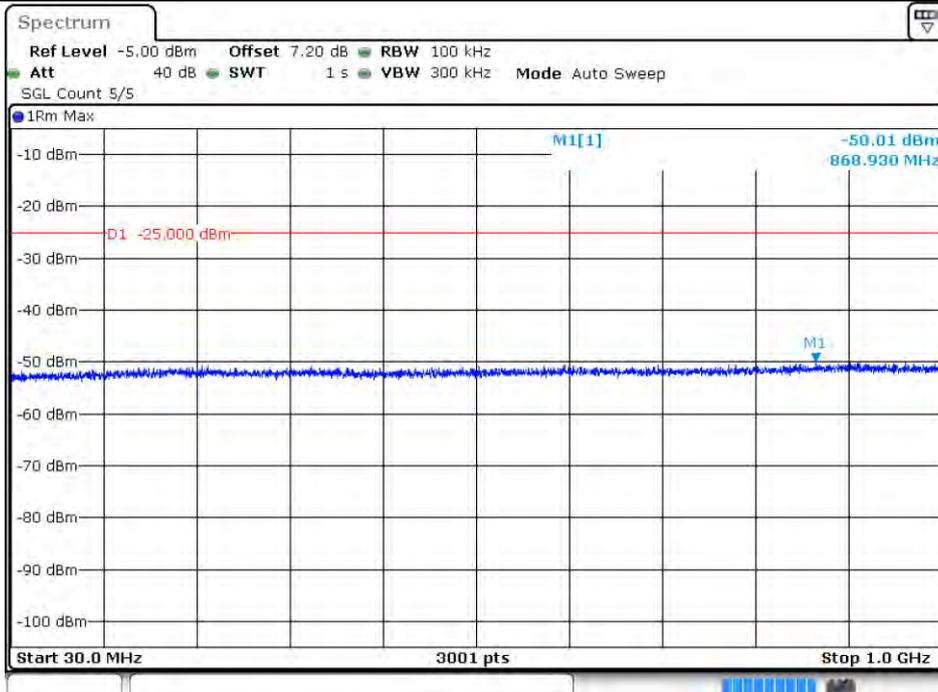


CA\_38C\_100RB+100RB\_QPSK\_37901+38099\_100RB#0+100RB#0\_12750\_30000



Date: 6.DEC.2020 18:23:54

CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_1RB#0+0RB#0\_30\_1000



Date: 6.DEC.2020 18:13:04

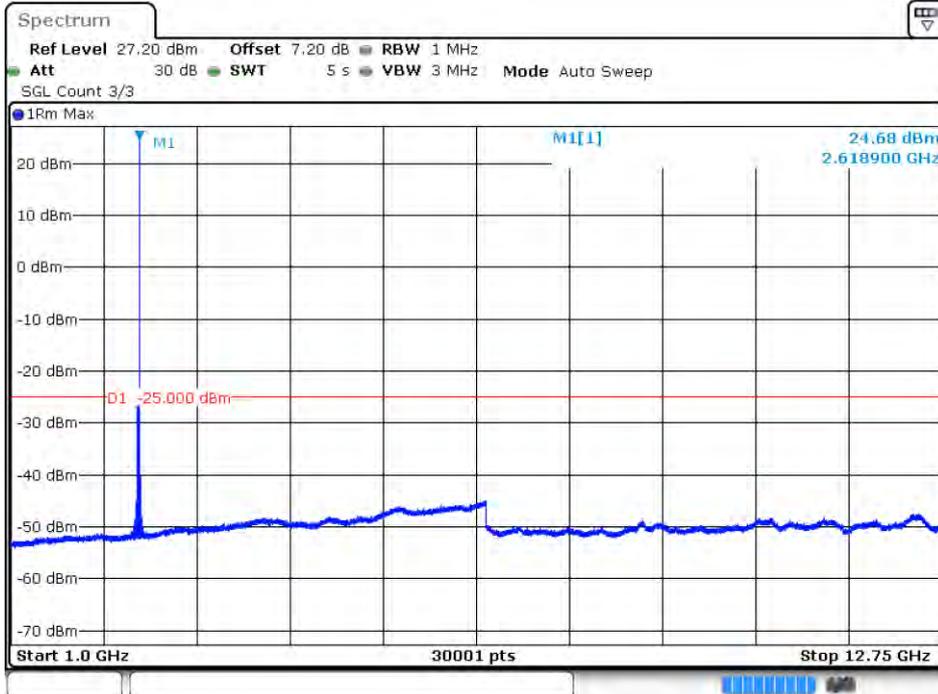


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

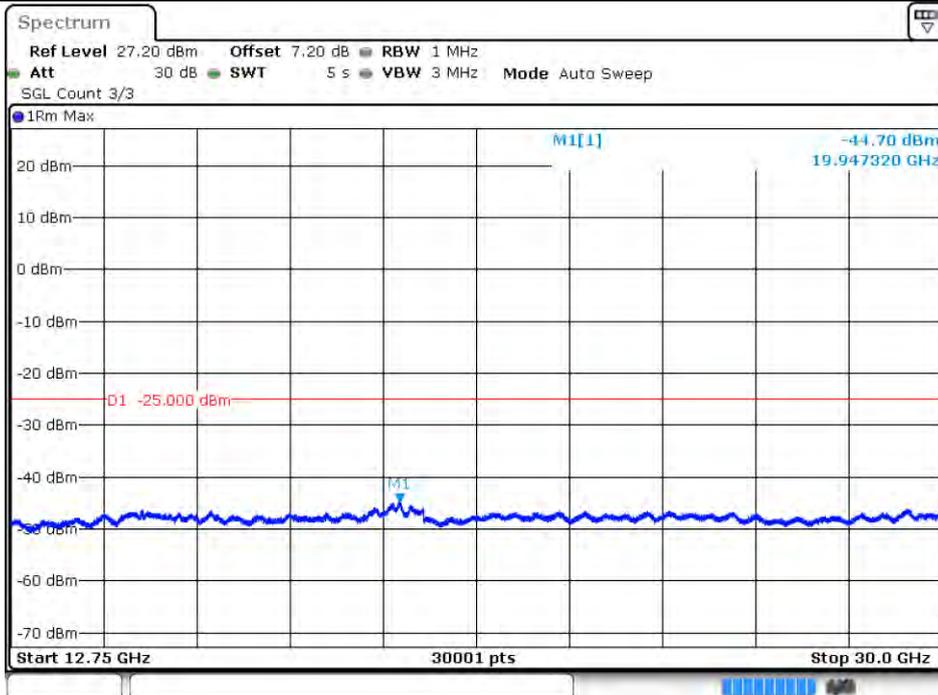


CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_1RB#0+0RB#0\_1000\_12750



Date: 15 DEC.2020 10:28:13

CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_1RB#0+0RB#0\_12750\_30000

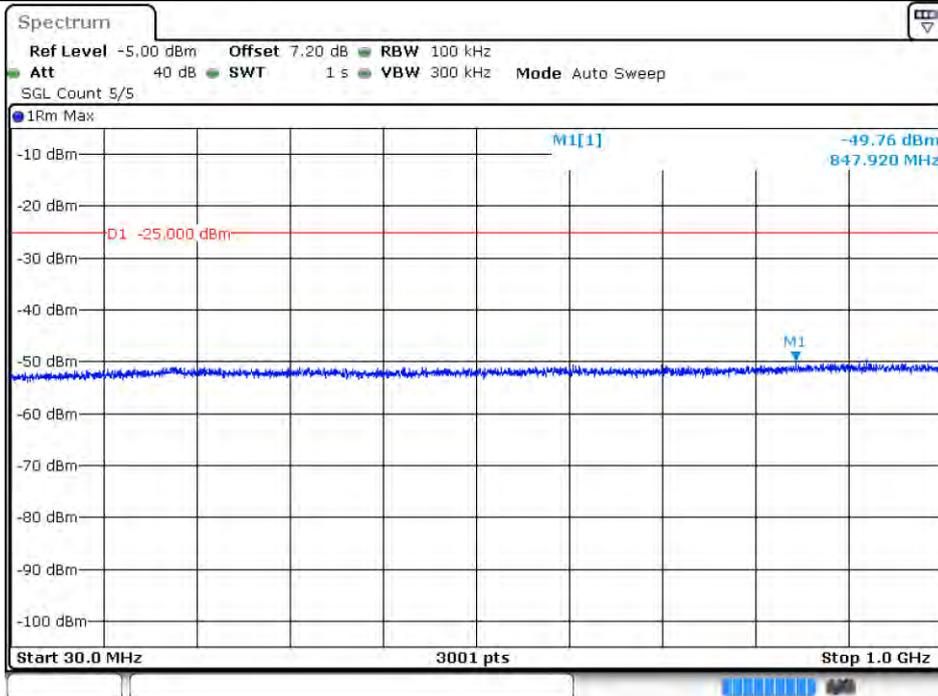


Date: 6 DEC.2020 18:26:19



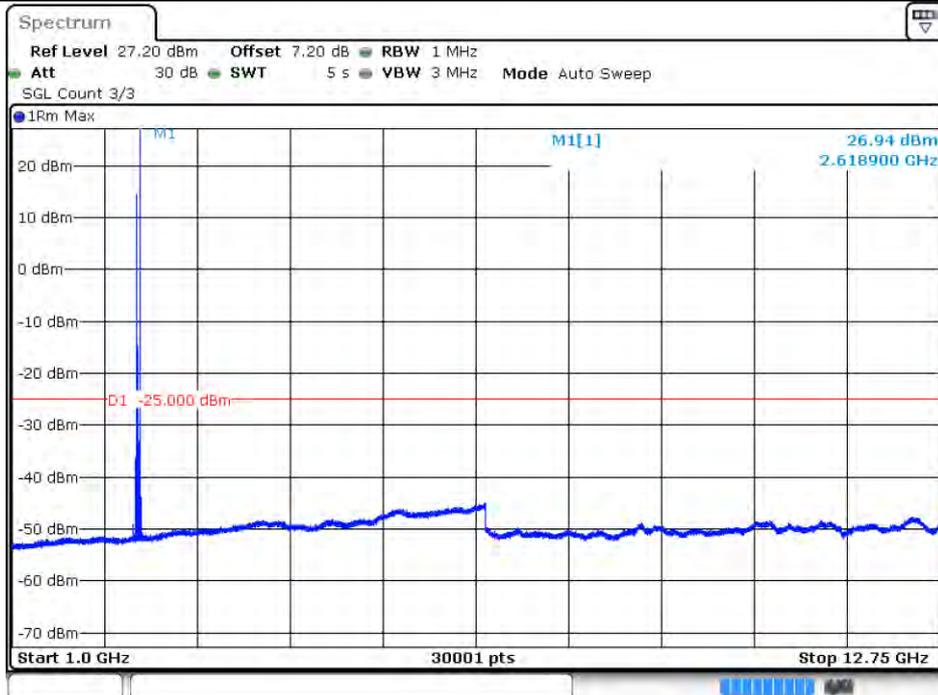


**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_ORB#0+1RB#99\_30\_1000**



Date: 6.DEC.2020 18:13:10

**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_ORB#0+1RB#99\_1000\_12750**

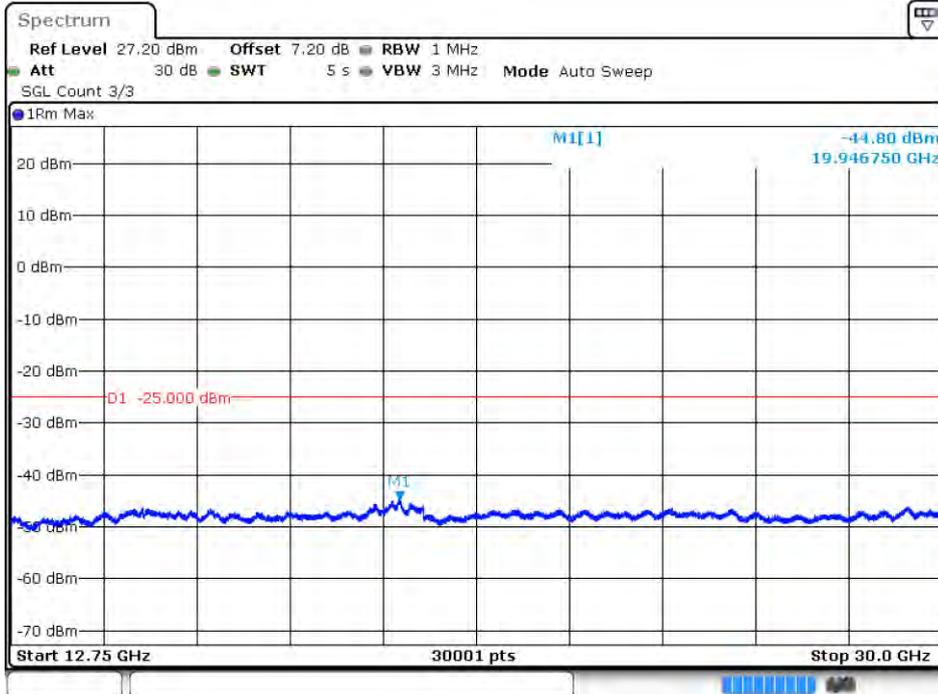


Date: 6.DEC.2020 18:18:38



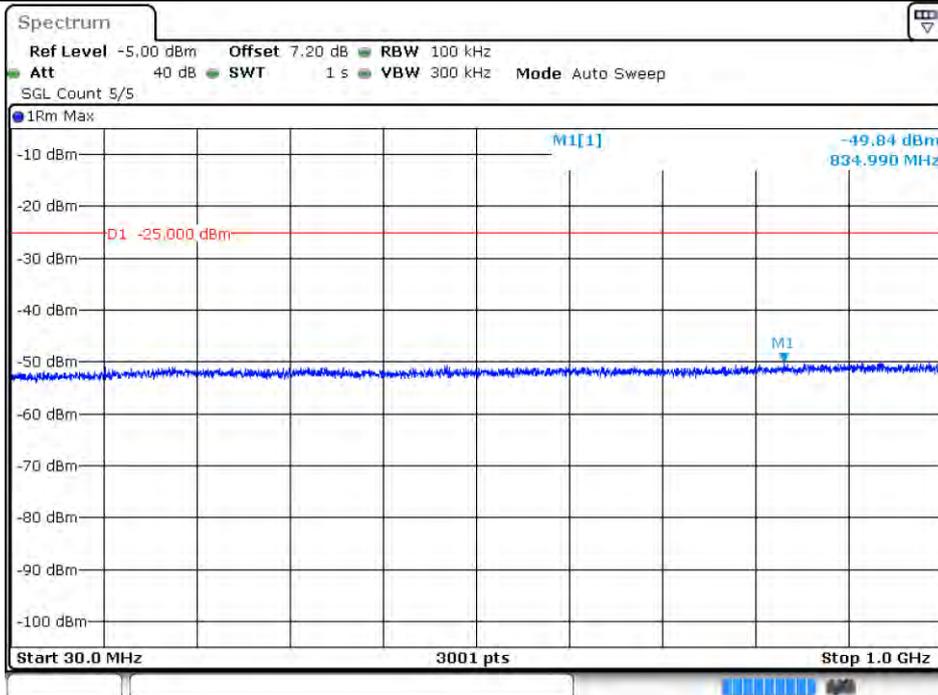


**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_0RB#0+1RB#99\_12750\_30000**



Date: 6.DEC.2020 18:26:35

**CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_100RB#0+100RB#0\_30\_1000**



Date: 6.DEC.2020 18:13:16



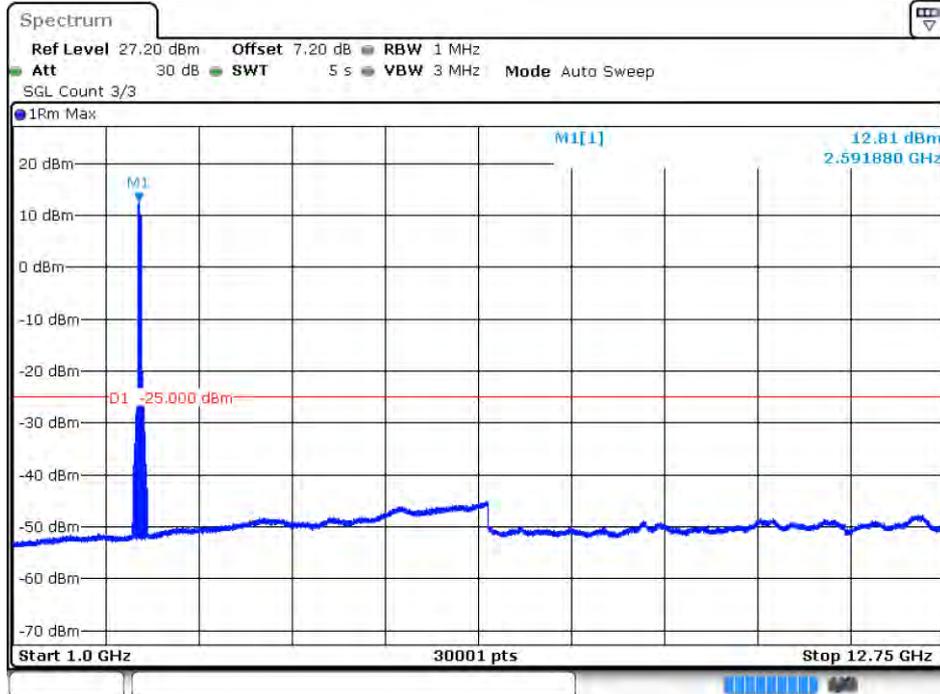
SGS-CSTC Standards Technical Services Co., Ltd.  
 Shenzhen Branch Inspection & Testing Services Laboratory

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

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

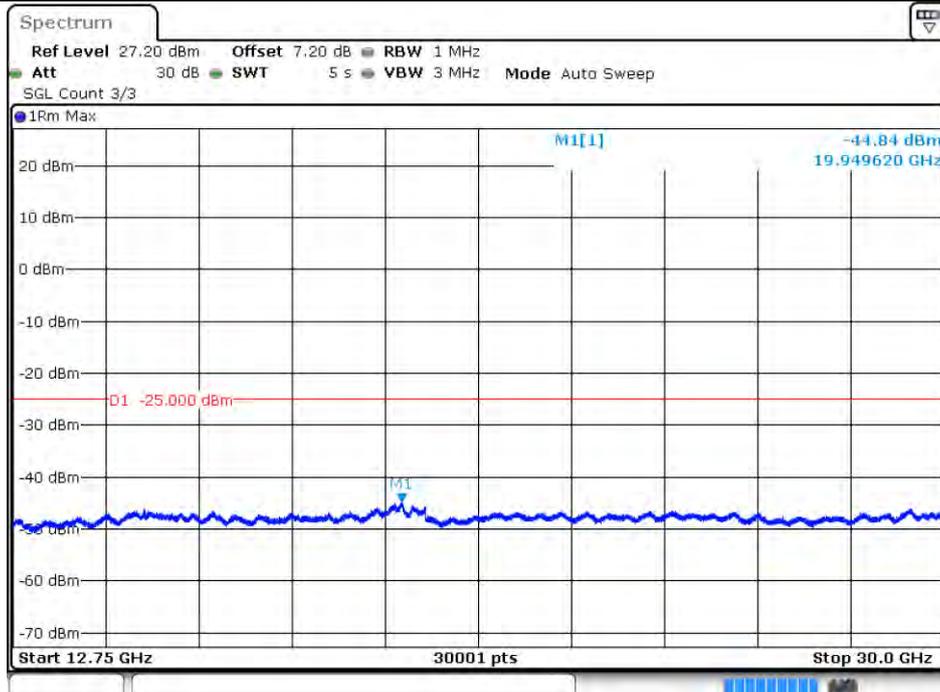


CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_100RB#0+100RB#0\_1000\_12750



Date: 6.DEC.2020 18:19:10

CA\_38C\_100RB+100RB\_QPSK\_37952+38150\_100RB#0+100RB#0\_12750\_30000



Date: 6.DEC.2020 18:26:52



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

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

## 7 Field Strength of Spurious Radiation

### 7.1 For LTE UL CA

#### 7.1 Test Band = LTE Band CA\_38C (Config 0)

##### 7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.900000	-79.39	-25.00	54.39	Vertical
125.000000	-84.15	-25.00	59.15	Vertical
351.350000	-84.52	-25.00	59.52	Vertical
4167.725000	-64.76	-25.00	39.76	Vertical
6483.350000	-63.29	-25.00	38.29	Vertical
9265.675000	-61.12	-25.00	36.12	Vertical
63.250000	-75.59	-25.00	50.59	Horizontal
104.300000	-86.07	-25.00	61.07	Horizontal
283.050000	-86.33	-25.00	61.33	Horizontal
4127.750000	-65.82	-25.00	40.82	Horizontal
6055.325000	-63.38	-25.00	38.38	Horizontal
9298.825000	-61.13	-25.00	36.13	Horizontal

##### 7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.250000	-79.93	-25.00	54.93	Vertical
104.300000	-83.43	-25.00	58.43	Vertical
344.250000	-84.57	-25.00	59.57	Vertical
5152.150000	-63.75	-25.00	38.75	Vertical
7962.100000	-61.28	-25.00	36.28	Vertical
10659.925000	-60.19	-25.00	35.19	Vertical
62.750000	-75.41	-25.00	50.41	Horizontal
264.050000	-86.10	-25.00	61.10	Horizontal
617.291667	-80.69	-25.00	55.69	Horizontal
4311.375000	-64.88	-25.00	39.88	Horizontal
7983.875000	-61.36	-25.00	36.36	Horizontal
10630.675000	-60.53	-25.00	35.53	Horizontal



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



**7.1.3 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-80.16	-25.00	55.16	Vertical
125.000000	-83.86	-25.00	58.86	Vertical
354.350000	-84.36	-25.00	59.36	Vertical
5162.550000	-63.72	-25.00	38.72	Vertical
7045.600000	-63.07	-25.00	38.07	Vertical
10655.700000	-60.72	-25.00	35.72	Vertical
62.250000	-75.97	-25.00	50.97	Horizontal
104.300000	-84.77	-25.00	59.77	Horizontal
282.600000	-85.67	-25.00	60.67	Horizontal
4201.525000	-65.39	-25.00	40.39	Horizontal
7089.150000	-62.86	-25.00	37.86	Horizontal
10630.350000	-60.35	-25.00	35.35	Horizontal

**7.2 Test Band = LTE Band CA\_38C (Config 1)**

**7.1.1 Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.200000	-79.75	-25.00	54.75	Vertical
104.300000	-83.73	-25.00	58.73	Vertical
350.200000	-84.31	-25.00	59.31	Vertical
5142.075000	-63.57	-25.00	38.57	Vertical
7041.375000	-62.65	-25.00	37.65	Vertical
10284.225000	-60.68	-25.00	35.68	Vertical
62.300000	-75.95	-25.00	50.95	Horizontal
104.350000	-83.12	-25.00	58.12	Horizontal
277.200000	-84.98	-25.00	59.98	Horizontal
4282.125000	-64.89	-25.00	39.89	Horizontal
7067.375000	-62.66	-25.00	37.66	Horizontal
11095.750000	-61.67	-25.00	36.67	Horizontal



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

**7.1.4 Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.750000	-79.48	-25.00	54.48	Vertical
125.000000	-83.69	-25.00	58.69	Vertical
359.500000	-84.00	-25.00	59.00	Vertical
5152.150000	-63.86	-25.00	38.86	Vertical
7089.150000	-62.69	-25.00	37.69	Vertical
9256.250000	-60.72	-25.00	35.72	Vertical
62.300000	-76.28	-25.00	51.28	Horizontal
104.300000	-83.97	-25.00	58.97	Horizontal
268.200000	-85.73	-25.00	60.73	Horizontal
4332.825000	-64.52	-25.00	39.52	Horizontal
7251.000000	-62.62	-25.00	37.62	Horizontal
9278.025000	-60.97	-25.00	35.97	Horizontal

**7.1.5 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.200000	-79.56	-25.00	54.56	Vertical
125.000000	-82.87	-25.00	57.87	Vertical
338.250000	-84.83	-25.00	59.83	Vertical
5162.225000	-62.92	-25.00	37.92	Vertical
7118.725000	-62.65	-25.00	37.65	Vertical
10325.175000	-60.68	-25.00	35.68	Vertical
62.250000	-75.94	-25.00	50.94	Horizontal
104.250000	-84.05	-25.00	59.05	Horizontal
265.000000	-84.91	-25.00	59.91	Horizontal
4273.350000	-64.68	-25.00	39.68	Horizontal
6096.275000	-63.47	-25.00	38.47	Horizontal
9292.325000	-61.12	-25.00	36.12	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz and above 12.75GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



## 8 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_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	LV	-6.49	-0.002514	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	NV	-1.04	-0.000404	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	HV	-9.10	-0.003527	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	LV	-5.29	-0.002045	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	NV	8.81	0.003407	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	HV	-8.47	-0.003275	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	LV	0.49	0.000188	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	NV	-6.70	-0.002587	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	HV	-3.92	-0.001514	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	LV	0.18	0.000071	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	NV	-4.35	-0.001685	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	HV	-2.51	-0.000971	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	LV	-3.32	-0.001283	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	NV	10.84	0.004194	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	HV	11.43	0.004422	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	LV	7.40	0.002856	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	NV	0.47	0.000182	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	HV	3.10	0.001198	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	LV	2.21	0.000857	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	NV	-4.41	-0.001708	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	HV	-8.19	-0.003173	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	LV	3.65	0.001411	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	NV	-6.32	-0.002445	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	HV	-6.59	-0.002551	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	LV	-1.49	-0.000575	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	NV	-1.15	-0.000444	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	HV	-11.53	-0.004453	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) 26012053, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-30	-10.62	-0.004115	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-20	4.71	0.001824	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-10	-9.07	-0.003516	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	0	4.05	0.001570	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	10	-2.60	-0.001007	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	20	9.01	0.003491	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	30	-12.08	-0.004681	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	40	8.27	0.003206	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	50	4.51	0.001748	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-30	10.85	0.004196	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-20	5.02	0.001942	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-10	1.78	0.000687	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	0	1.56	0.000605	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	10	-1.82	-0.000704	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	20	5.86	0.002266	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	30	-11.63	-0.004501	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	40	-8.74	-0.003379	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	50	2.91	0.001125	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-30	-9.80	-0.003784	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-20	2.06	0.000796	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-10	-7.36	-0.002842	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	0	-0.28	-0.000106	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	10	4.86	0.001876	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	20	5.29	0.002044	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	30	5.34	0.002062	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	40	-3.89	-0.001500	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	50	8.15	0.003147	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-30	-0.89	-0.000343	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-20	3.97	0.001538	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-10	-1.93	-0.000747	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	0	8.87	0.003438	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	10	-7.07	-0.002739	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	20	0.10	0.000038	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	30	-12.36	-0.004790	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	40	13.22	0.005123	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	50	5.60	0.002171	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-30	-4.66	-0.001803	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-20	-11.82	-0.004571	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-10	-7.32	-0.002831	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	0	-6.45	-0.002496	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) 2307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	10	4.54	0.001756	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	20	7.55	0.002922	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	30	1.98	0.000764	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	40	5.74	0.002219	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	50	9.40	0.003635	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-30	-0.23	-0.000090	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-20	-2.18	-0.000840	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-10	-1.61	-0.000621	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	0	-10.45	-0.004033	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	10	5.31	0.002049	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	20	-7.52	-0.002904	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	30	8.12	0.003134	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	40	3.13	0.001208	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	50	-10.76	-0.004152	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-30	-6.72	-0.002606	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-20	3.89	0.001507	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-10	-7.50	-0.002907	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	0	-8.53	-0.003306	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	10	4.87	0.001889	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	20	-0.71	-0.000276	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	30	0.13	0.000049	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	40	8.26	0.003203	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	50	0.77	0.000298	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-30	8.22	0.003181	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-20	6.07	0.002349	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-10	2.70	0.001046	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	0	0.18	0.000069	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	10	3.42	0.001324	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	20	-4.52	-0.001748	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	30	1.77	0.000685	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	40	3.77	0.001459	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	50	7.71	0.002984	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-30	-12.55	-0.004845	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-20	-6.05	-0.002335	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-10	-11.90	-0.004594	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	0	-4.40	-0.001700	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	10	10.14	0.003915	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	20	11.48	0.004434	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	30	-0.62	-0.000241	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	40	-12.63	-0.004876	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	50	5.47	0.002110	PASS

The End



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

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