



# Appendix B

## E-UTRA Band CA\_7C



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)



## CONTENT

	Page
<b>1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA .....</b>	<b>3</b>
<b>2 PEAK-TO-AVERAGE RATIO .....</b>	<b>13</b>
2.1 FOR LTE .....	13
2.1.1 Test Band = LTE Band CA_7C .....	13
<b>3 MODULATION CHARACTERISTICS .....</b>	<b>18</b>
3.1 FOR LTE .....	18
3.1.1 Test Band = LTE Band CA_7C .....	18
<b>4 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....</b>	<b>21</b>
4.1 FOR LTE .....	23
4.1.1 Test Band = LTE Band CA_7C .....	23
<b>5 BAND EDGES COMPLIANCE .....</b>	<b>55</b>
5.1 FOR LTE .....	55
5.1.1 Test Band = LTE Band CA_7C .....	55
<b>6 SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b>	<b>68</b>
6.1 FOR LTE .....	68
6.1.1 Test Band = LTE Band CA_7C .....	68
<b>7 FIELD STRENGTH OF SPURIOUS RADIATION .....</b>	<b>82</b>
7.1 FOR LTE UL CA .....	82
7.1.1 Test Band = LTE Band CA_7C (Down Ant) .....	82
7.1.2 Test Band = LTE Band CA_7C (Up Ant) .....	88
<b>8 FREQUENCY STABILITY .....</b>	<b>94</b>
8.1 FREQUENCY ERROR VS. VOLTAGE .....	94
8.2 FREQUENCY ERROR VS. TEMPERATURE .....	95



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

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



# 1 Effective (Isotropic) Radiated Power Output Data

Ant1:

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	QPSK	24.11	23.51	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	QPSK	23.89	23.29	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	QPSK	23.91	23.31	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	QPSK	23.97	23.37	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	QPSK	23.96	23.36	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	QPSK	23.8	23.20	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	QPSK	23.64	23.04	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	QPSK	23.35	22.75	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	QPSK	23.97	23.37	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	QPSK	23.61	23.01	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	QPSK	23.60	23.00	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	QPSK	23.62	23.02	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	QPSK	23.92	23.32	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	QPSK	23.63	23.03	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	QPSK	23.61	23.01	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	QPSK	23.69	23.09	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	QPSK	23.35	22.75	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	QPSK	23.96	23.36	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	QPSK	23.53	22.93	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	QPSK	23.58	22.98	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	QPSK	23.67	23.07	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	QPSK	23.6	23.00	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	QPSK	23.42	22.82	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	QPSK	23.76	23.16	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	QPSK	23.45	22.85	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	QPSK	23.77	23.17	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	QPSK	23.53	22.93	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	QPSK	23.84	23.24	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	QPSK	23.49	22.89	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	QPSK	23.66	23.06	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	QPSK	23.31	22.71	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	QPSK	23.71	23.11	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	QPSK	23.64	23.04	33.00	PASS
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	16QAM	22.73	22.13	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	16QAM	22.91	22.31	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	16QAM	22.61	22.01	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	16QAM	22.78	22.18	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	16QAM	22.77	22.17	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	16QAM	22.77	22.17	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	16QAM	22.73	22.13	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	16QAM	22.38	21.78	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	16QAM	22.61	22.01	33.00	PASS



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

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



CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	16QAM	22.48	21.88	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	16QAM	22.85	22.25	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	16QAM	22.51	21.91	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	16QAM	22.81	22.21	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	16QAM	22.77	22.17	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	16QAM	22.73	22.13	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	16QAM	22.66	22.06	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	16QAM	22.53	21.93	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	16QAM	22.72	22.12	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	16QAM	22.6	22.00	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	16QAM	22.71	22.11	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	16QAM	22.29	21.69	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	16QAM	22.83	22.23	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	16QAM	22.44	21.84	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	16QAM	22.59	21.99	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	16QAM	22.48	21.88	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	16QAM	22.92	22.32	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	16QAM	22.54	21.94	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	16QAM	22.93	22.33	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	16QAM	22.5	21.90	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	16QAM	22.58	21.98	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	16QAM	22.59	21.99	33.00	PASS



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



CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	16QAM	22.61	22.01	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	16QAM	22.61	22.01	33.00	PASS
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	64QAM	21.76	21.16	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	64QAM	21.65	21.05	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	64QAM	21.83	21.23	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	64QAM	21.83	21.23	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	64QAM	21.81	21.21	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	64QAM	21.95	21.35	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	64QAM	21.92	21.32	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	64QAM	21.61	21.01	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	64QAM	21.59	20.99	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	64QAM	21.64	21.04	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	64QAM	21.80	21.20	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	64QAM	21.35	20.75	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	64QAM	21.81	21.21	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	64QAM	21.66	21.06	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	64QAM	21.61	21.01	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	64QAM	21.68	21.08	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	64QAM	21.40	20.80	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	64QAM	21.76	21.16	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	64QAM	21.48	20.88	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	64QAM	21.64	21.04	33.00	PASS



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

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



CA_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	64QAM	21.59	20.99	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	64QAM	21.86	21.26	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	64QAM	21.31	20.71	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	64QAM	21.66	21.06	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	64QAM	21.30	20.70	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	64QAM	21.71	21.11	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	64QAM	21.32	20.72	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	64QAM	21.72	21.12	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	64QAM	21.64	21.04	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	64QAM	21.71	21.11	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	64QAM	21.42	20.82	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	64QAM	21.80	21.20	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	64QAM	21.39	20.79	33.00	PASS

Ant5:

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	QPSK	18.82	17.32	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	QPSK	18.73	17.23	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	QPSK	16.66	15.16	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	QPSK	18.81	17.31	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	QPSK	18.88	17.38	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	QPSK	18.72	17.22	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	QPSK	18.56	17.06	33.00	PASS



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

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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	QPSK	18.27	16.77	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	QPSK	18.89	17.39	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	QPSK	18.52	17.02	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	QPSK	18.52	17.02	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	QPSK	18.54	17.04	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	QPSK	18.84	17.34	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	QPSK	18.55	17.05	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	QPSK	18.53	17.03	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	QPSK	18.61	17.11	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	QPSK	18.27	16.77	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	QPSK	18.88	17.38	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	QPSK	18.45	16.95	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	QPSK	18.50	17.00	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	QPSK	18.59	17.09	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	QPSK	18.52	17.02	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	QPSK	18.34	16.84	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	QPSK	18.68	17.18	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	QPSK	18.37	16.87	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	QPSK	18.69	17.19	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	QPSK	18.45	16.95	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	QPSK	18.76	17.26	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	QPSK	18.41	16.91	33.00	PASS



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

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



CA_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	QPSK	18.58	17.08	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	QPSK	18.23	16.73	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	QPSK	18.63	17.13	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	QPSK	18.56	17.06	33.00	PASS
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	16QAM	17.65	16.15	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	16QAM	17.83	16.33	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	16QAM	17.53	16.03	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	16QAM	17.70	16.20	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	16QAM	17.69	16.19	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	16QAM	17.69	16.19	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	16QAM	17.65	16.15	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	16QAM	17.30	15.80	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	16QAM	17.53	16.03	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	16QAM	17.4	15.90	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	16QAM	17.77	16.27	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	16QAM	17.43	15.93	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	16QAM	17.73	16.23	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	16QAM	17.69	16.19	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	16QAM	17.65	16.15	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	16QAM	17.58	16.08	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	16QAM	17.45	15.95	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	16QAM	17.64	16.14	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	16QAM	17.52	16.02	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	16QAM	17.63	16.13	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	16QAM	17.21	15.71	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	16QAM	17.75	16.25	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	16QAM	17.36	15.86	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	16QAM	17.51	16.01	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	16QAM	17.40	15.90	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	16QAM	17.84	16.34	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	16QAM	17.46	15.96	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	16QAM	17.85	16.35	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	16QAM	17.42	15.92	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	16QAM	17.50	16.00	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	16QAM	17.51	16.01	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	16QAM	17.53	16.03	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	16QAM	17.53	16.03	33.00	PASS
CA_7 C	50RB+100RB	20805+2094 9	1RB#0	0RB#0	64QAM	16.68	15.18	33.00	PASS
CA_7 C	50RB+100RB	21006+2115 0	1RB#0	0RB#0	64QAM	16.57	15.07	33.00	PASS
CA_7 C	50RB+100RB	21206+2135 0	1RB#0	0RB#0	64QAM	16.75	15.25	33.00	PASS
CA_7 C	75RB+50RB	20825+2094 5	1RB#0	0RB#0	64QAM	16.75	15.25	33.00	PASS
CA_7 C	75RB+50RB	21051+2117 1	1RB#0	0RB#0	64QAM	16.73	15.23	33.00	PASS
CA_7 C	75RB+50RB	21277+2139 7	1RB#0	0RB#0	64QAM	16.87	15.37	33.00	PASS
CA_7 C	75RB+75RB	20825+2097 5	1RB#0	0RB#0	64QAM	16.84	15.34	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	75RB+75RB	20825+2097 5	16RB#0	0RB#0	64QAM	16.53	15.03	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	1RB#0	0RB#0	64QAM	16.51	15.01	33.00	PASS
CA_7 C	75RB+75RB	21025+2117 5	16RB#0	0RB#0	64QAM	16.56	15.06	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	1RB#0	0RB#0	64QAM	16.72	15.22	33.00	PASS
CA_7 C	75RB+75RB	21225+2137 5	16RB#0	0RB#0	64QAM	16.27	14.77	33.00	PASS
CA_7 C	75RB+100RB	20828+2099 9	1RB#0	0RB#0	64QAM	16.73	15.23	33.00	PASS
CA_7 C	75RB+100RB	21003+2117 4	1RB#0	0RB#0	64QAM	16.58	15.08	33.00	PASS
CA_7 C	75RB+100RB	21179+2135 0	1RB#0	0RB#0	64QAM	16.53	15.03	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	1RB#0	0RB#0	64QAM	16.60	15.10	33.00	PASS
CA_7 C	100RB+50RB	20850+2099 4	12RB#0	0RB#0	64QAM	16.32	14.82	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	1RB#0	0RB#0	64QAM	16.68	15.18	33.00	PASS
CA_7 C	100RB+50RB	21051+2119 5	12RB#0	0RB#0	64QAM	16.40	14.90	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	1RB#0	0RB#0	64QAM	16.56	15.06	33.00	PASS
CA_7 C	100RB+50RB	21251+2139 5	12RB#0	0RB#0	64QAM	16.51	15.01	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	1RB#0	0RB#0	64QAM	16.78	15.28	33.00	PASS
CA_7 C	100RB+75RB	20850+2102 1	16RB#0	0RB#0	64QAM	16.23	14.73	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	1RB#0	0RB#0	64QAM	16.58	15.08	33.00	PASS
CA_7 C	100RB+75RB	21026+2119 7	16RB#0	0RB#0	64QAM	16.22	14.72	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	1RB#0	0RB#0	64QAM	16.63	15.13	33.00	PASS
CA_7 C	100RB+75RB	21201+2137 2	16RB#0	0RB#0	64QAM	16.24	14.74	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	1RB#0	0RB#0	64QAM	16.64	15.14	33.00	PASS
CA_7 C	100RB+100RB	20850+2104 8	18RB#0	0RB#0	64QAM	16.56	15.06	33.00	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	100RB+100RB	21001+2119 9	1RB#0	0RB#0	64QAM	16.63	15.13	33.00	PASS
CA_7 C	100RB+100RB	21001+2119 9	18RB#0	0RB#0	64QAM	16.34	14.84	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	1RB#0	0RB#0	64QAM	16.72	15.22	33.00	PASS
CA_7 C	100RB+100RB	21152+2135 0	18RB#0	0RB#0	64QAM	16.31	14.81	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) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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



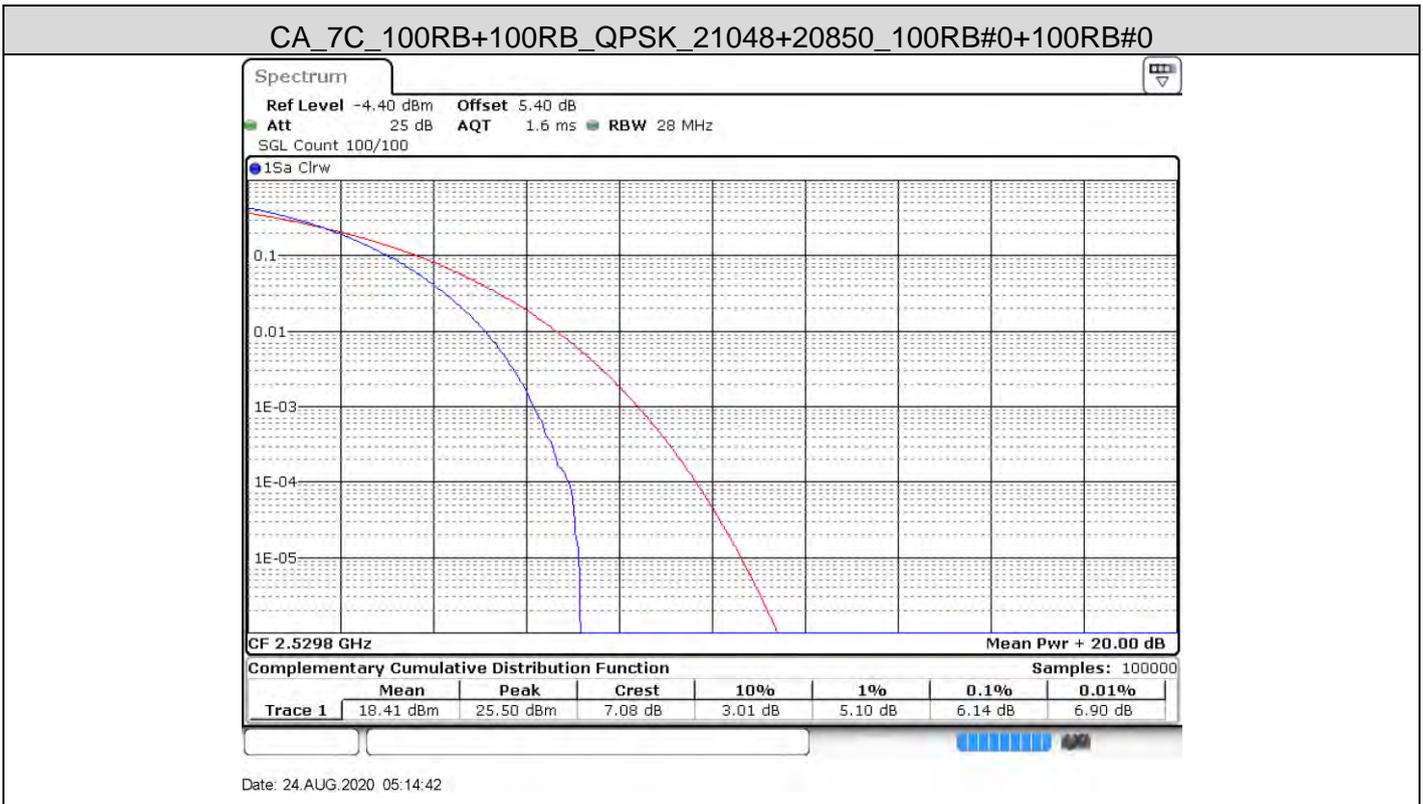
## 2 Peak-to-Average Ratio

### Part I - Test Results

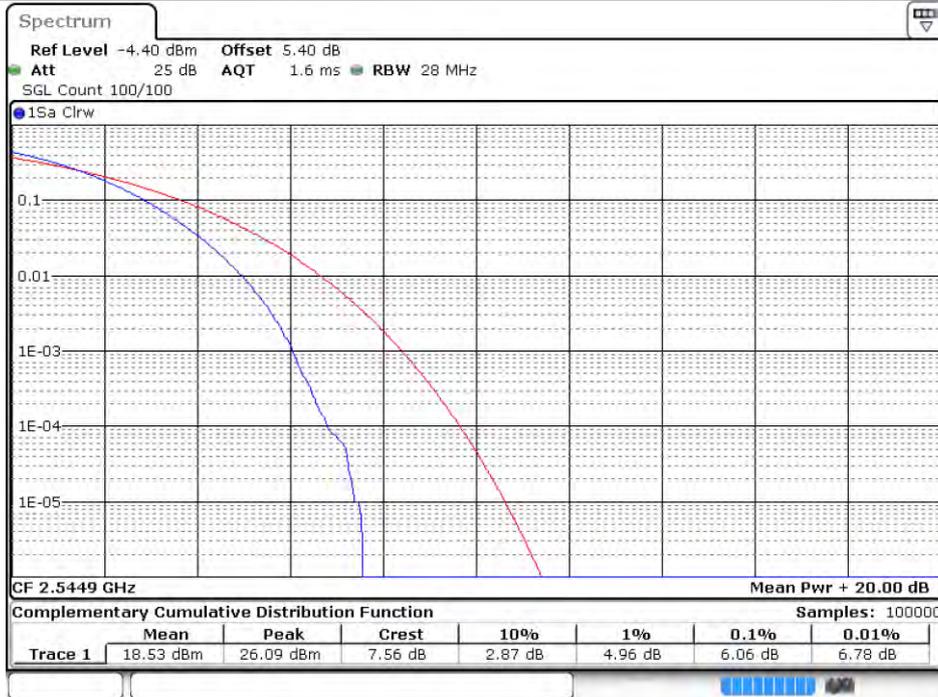
Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_7C	QPSK	100RB+100RB	21048+20850	100RB#0	100RB#0	6.14	13.00	PASS
CA_7C	QPSK	100RB+100RB	21199+21001	100RB#0	100RB#0	6.06	13.00	PASS
CA_7C	QPSK	100RB+100RB	21350+21152	100RB#0	100RB#0	6.20	13.00	PASS
CA_7C	16QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.58	13.00	PASS
CA_7C	16QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.72	13.00	PASS
CA_7C	16QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.58	13.00	PASS
CA_7C	64QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.49	13.00	PASS
CA_7C	64QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.70	13.00	PASS
CA_7C	64QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.61	13.00	PASS

### 2.1 For LTE

#### 2.1.1 Test Band = LTE Band CA\_7C



**CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:05

**CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:21



**CA\_7C\_100RB+100RB\_16QAM\_21048+20850\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:14:50

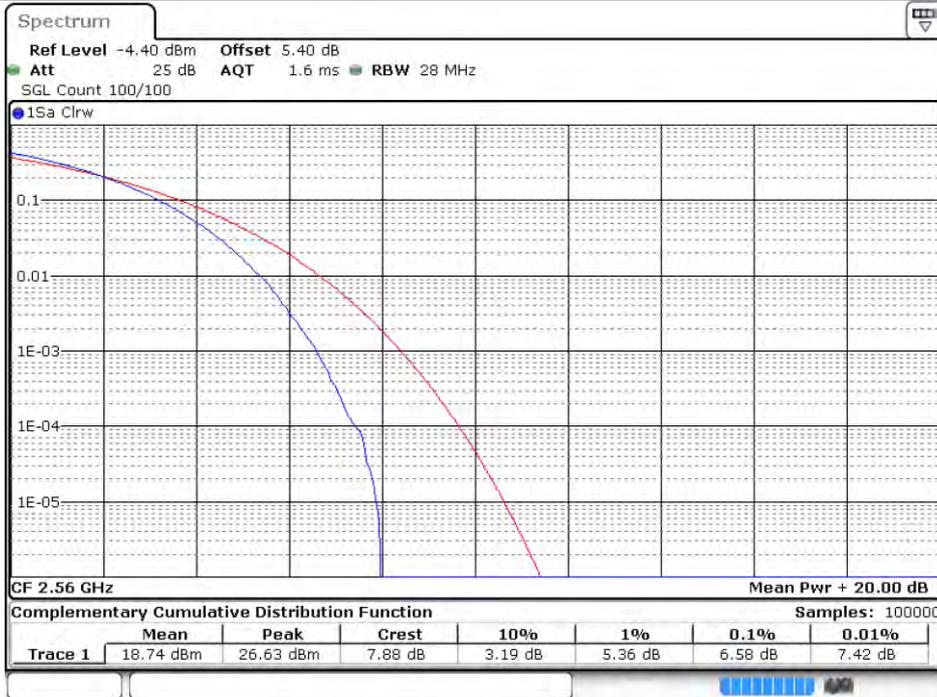
**CA\_7C\_100RB+100RB\_16QAM\_21199+21001\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:09



**CA\_7C\_100RB+100RB\_16QAM\_21350+21152\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:28

**CA\_7C\_100RB+100RB\_64QAM\_21048+20850\_100RB#0+100RB#0**

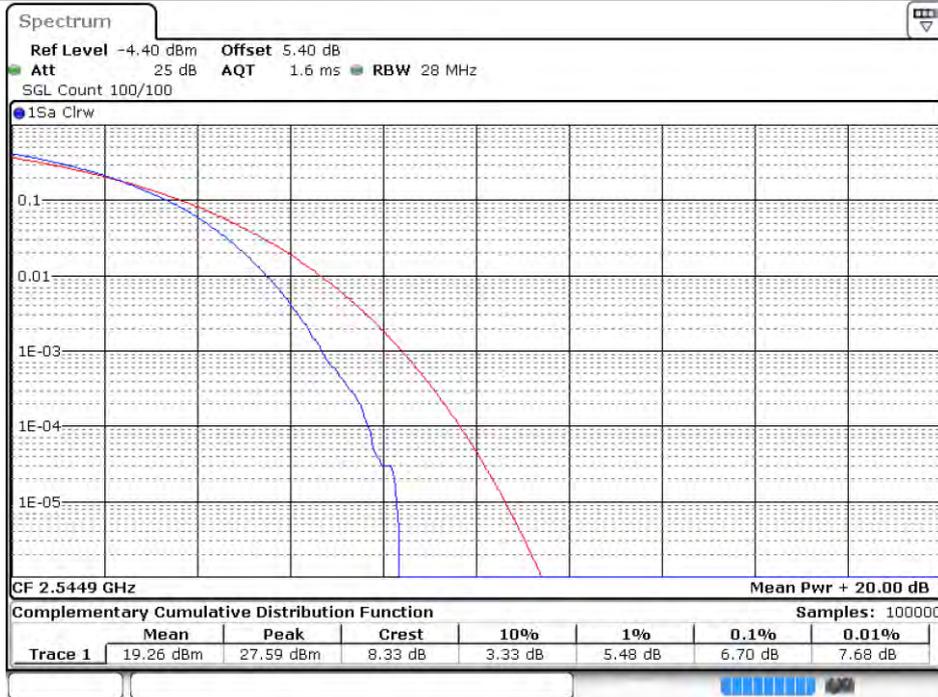


Date: 24.AUG.2020 05:14:57





**CA\_7C\_100RB+100RB\_64QAM\_21199+21001\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:13

**CA\_7C\_100RB+100RB\_64QAM\_21350+21152\_100RB#0+100RB#0**



Date: 24.AUG.2020 05:15:32





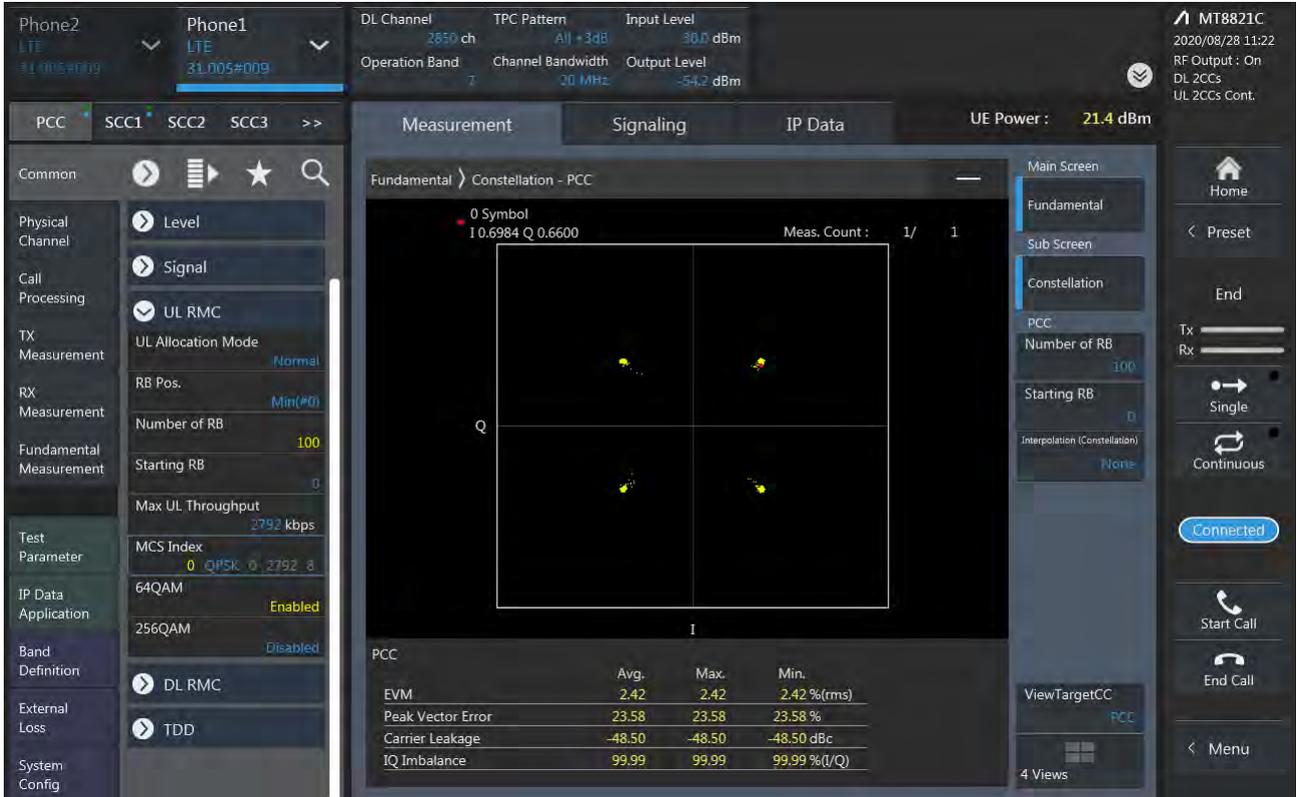
### 3 Modulation Characteristics

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE Band CA\_7C

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

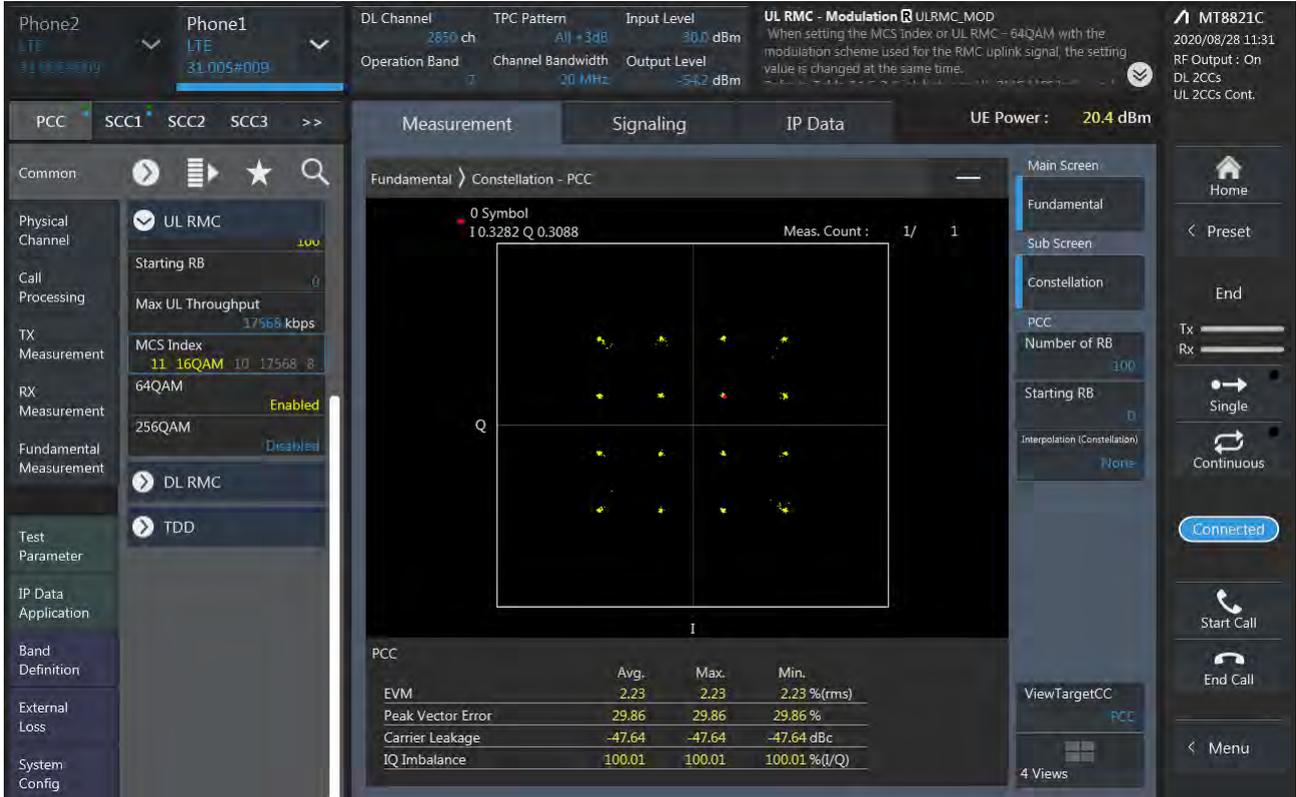
##### 3.1.1.1.1 Test Channel = 20850+20994





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

**3.1.1.2.1 Test Channel =20850+20994**



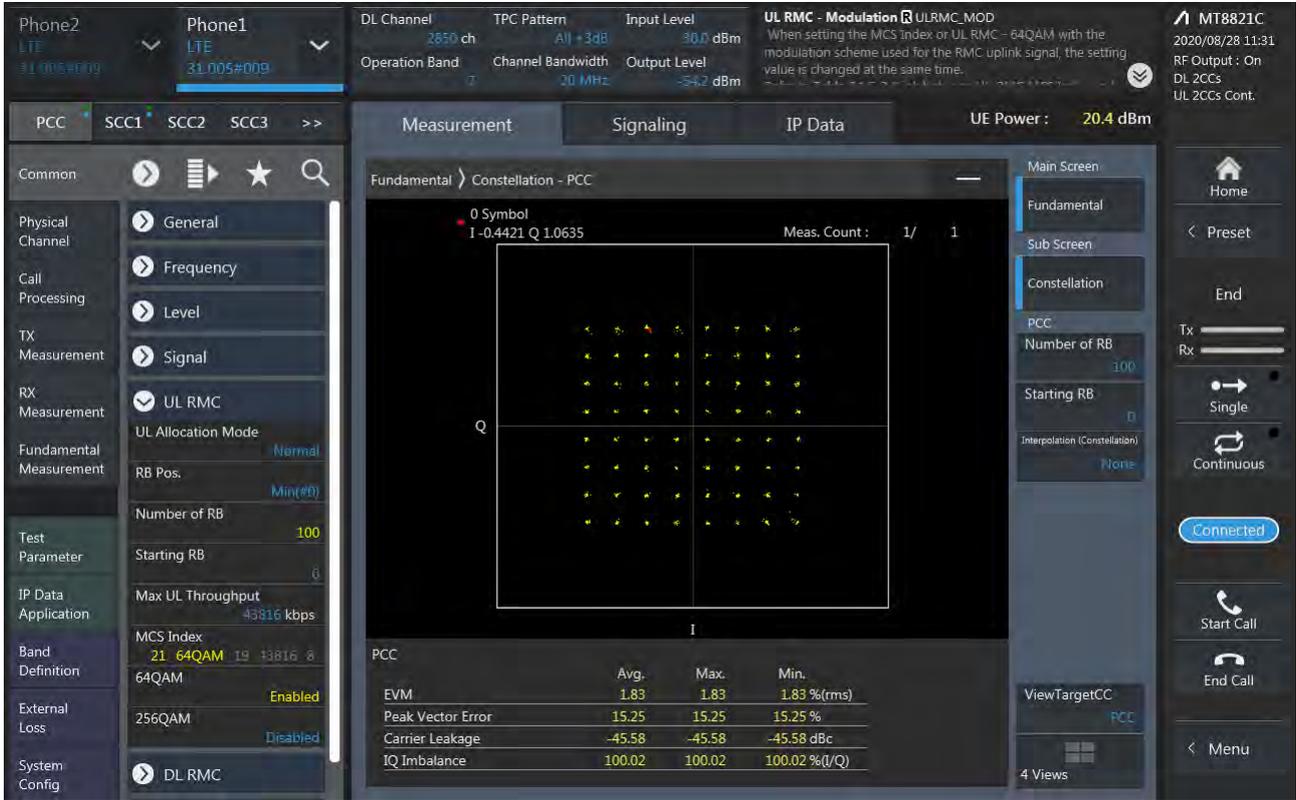
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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



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

**3.1.1.3.1 Test Channel = 20850+20994**



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

## 4 26dB Bandwidth and Occupied Bandwidth

Test Band	Test Mode PCC/SCC	Modulation PCC&SCC	Test Channel PCC/SCC	RB Config	OBW [MHz]	EBW [MHz]	Verdict
CA_7C	50RB+100RB	QPSK	20805+20949	50RB#0+100RB#0	27.67	28.60	PASS
CA_7C	50RB+100RB	16QAM	20805+20949	50RB#0+100RB#0	27.68	28.61	PASS
CA_7C	50RB+100RB	64QAM	20805+20949	50RB#0+100RB#0	27.67	28.61	PASS
CA_7C	50RB+100RB	QPSK	21006+21150	50RB#0+100RB#0	27.62	28.54	PASS
CA_7C	50RB+100RB	16QAM	21006+21150	50RB#0+100RB#0	27.61	28.58	PASS
CA_7C	50RB+100RB	64QAM	21006+21150	50RB#0+100RB#0	27.61	28.63	PASS
CA_7C	50RB+100RB	QPSK	21206+21350	50RB#0+100RB#0	27.55	28.55	PASS
CA_7C	50RB+100RB	16QAM	21206+21350	50RB#0+100RB#0	27.53	28.57	PASS
CA_7C	50RB+100RB	64QAM	21206+21350	50RB#0+100RB#0	27.55	28.61	PASS
CA_7C	75RB+50RB	QPSK	20825+20945	75RB#0+50RB#0	23.21	24.47	PASS
CA_7C	75RB+50RB	16QAM	20825+20945	75RB#0+50RB#0	23.22	24.47	PASS
CA_7C	75RB+50RB	64QAM	20825+20945	75RB#0+50RB#0	23.1	24.38	PASS
CA_7C	75RB+50RB	QPSK	21051+21171	75RB#0+50RB#0	23.27	24.31	PASS
CA_7C	75RB+50RB	16QAM	21051+21171	75RB#0+50RB#0	23.17	24.41	PASS
CA_7C	75RB+50RB	64QAM	21051+21171	75RB#0+50RB#0	23.15	24.42	PASS
CA_7C	75RB+50RB	QPSK	21277+21397	75RB#0+50RB#0	23.29	24.23	PASS
CA_7C	75RB+50RB	16QAM	21277+21397	75RB#0+50RB#0	23.15	24.41	PASS
CA_7C	75RB+50RB	64QAM	21277+21397	75RB#0+50RB#0	23.14	24.42	PASS
CA_7C	75RB+75RB	QPSK	20825+20975	75RB#0+75RB#0	28.28	29.26	PASS
CA_7C	75RB+75RB	16QAM	20825+20975	75RB#0+75RB#0	28.28	29.27	PASS
CA_7C	75RB+75RB	64QAM	20825+20975	75RB#0+75RB#0	28.25	29.21	PASS
CA_7C	75RB+75RB	QPSK	21025+21175	75RB#0+75RB#0	28.24	29.23	PASS
CA_7C	75RB+75RB	16QAM	21025+21175	75RB#0+75RB#0	28.25	29.24	PASS
CA_7C	75RB+75RB	64QAM	21025+21175	75RB#0+75RB#0	28.24	29.27	PASS
CA_7C	75RB+75RB	QPSK	21225+21375	75RB#0+75RB#0	28.21	29.23	PASS
CA_7C	75RB+75RB	16QAM	21225+21375	75RB#0+75RB#0	28.22	29.23	PASS
CA_7C	75RB+75RB	64QAM	21225+21375	75RB#0+75RB#0	28.21	29.24	PASS
CA_7C	75RB+100RB	QPSK	20828+20999	75RB#0+100RB#0	32.59	33.95	PASS
CA_7C	75RB+100RB	16QAM	20828+20999	75RB#0+100RB#0	32.61	33.95	PASS
CA_7C	75RB+100RB	64QAM	20828+20999	75RB#0+100RB#0	32.57	33.95	PASS
CA_7C	75RB+100RB	QPSK	21003+21174	75RB#0+100RB#0	32.71	33.71	PASS
CA_7C	75RB+100RB	16QAM	21003+21174	75RB#0+100RB#0	32.31	33.89	PASS
CA_7C	75RB+100RB	64QAM	21003+21174	75RB#0+100RB#0	32.33	33.93	PASS



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

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



CA_7C	75RB+100RB	QPSK	21179+21350	75RB#0+100RB#0	32.53	33.95	PASS
CA_7C	75RB+100RB	16QAM	21179+21350	75RB#0+100RB#0	32.53	34.01	PASS
CA_7C	75RB+100RB	64QAM	21179+21350	75RB#0+100RB#0	32.51	33.93	PASS
CA_7C	100RB+50RB	QPSK	20850+20994	100RB#0+50RB#0	27.76	29.14	PASS
CA_7C	100RB+50RB	16QAM	20850+20994	100RB#0+50RB#0	27.77	29.12	PASS
CA_7C	100RB+50RB	64QAM	20850+20994	100RB#0+50RB#0	27.76	29.14	PASS
CA_7C	100RB+50RB	QPSK	21051+21195	100RB#0+50RB#0	27.88	29.05	PASS
CA_7C	100RB+50RB	16QAM	21051+21195	100RB#0+50RB#0	27.76	29.06	PASS
CA_7C	100RB+50RB	64QAM	21051+21195	100RB#0+50RB#0	27.58	29.14	PASS
CA_7C	100RB+50RB	QPSK	21251+21395	100RB#0+50RB#0	27.88	29.00	PASS
CA_7C	100RB+50RB	16QAM	21251+21395	100RB#0+50RB#0	27.58	29.11	PASS
CA_7C	100RB+50RB	64QAM	21251+21395	100RB#0+50RB#0	27.55	29.06	PASS
CA_7C	100RB+75RB	QPSK	20850+21021	100RB#0+75RB#0	32.65	34.01	PASS
CA_7C	100RB+75RB	16QAM	20850+21021	100RB#0+75RB#0	32.65	33.99	PASS
CA_7C	100RB+75RB	64QAM	20850+21021	100RB#0+75RB#0	32.61	34.01	PASS
CA_7C	100RB+75RB	QPSK	21026+21197	100RB#0+75RB#0	32.77	33.95	PASS
CA_7C	100RB+75RB	16QAM	21026+21197	100RB#0+75RB#0	32.63	34.05	PASS
CA_7C	100RB+75RB	64QAM	21026+21197	100RB#0+75RB#0	32.61	34.03	PASS
CA_7C	100RB+75RB	QPSK	21201+21372	100RB#0+75RB#0	32.67	33.95	PASS
CA_7C	100RB+75RB	16QAM	21201+21372	100RB#0+75RB#0	32.61	34.05	PASS
CA_7C	100RB+75RB	64QAM	21201+21372	100RB#0+75RB#0	32.61	34.03	PASS
CA_7C	100RB+100RB	QPSK	20850+21048	100RB#0+100RB#0	37.47	38.99	PASS
CA_7C	100RB+100RB	16QAM	20850+21048	100RB#0+100RB#0	37.47	38.91	PASS
CA_7C	100RB+100RB	64QAM	20850+21048	100RB#0+100RB#0	37.43	38.91	PASS
CA_7C	100RB+100RB	QPSK	21001+21199	100RB#0+100RB#0	37.67	38.81	PASS
CA_7C	100RB+100RB	16QAM	21001+21199	100RB#0+100RB#0	37.49	38.93	PASS
CA_7C	100RB+100RB	64QAM	21001+21199	100RB#0+100RB#0	37.47	38.91	PASS
CA_7C	100RB+100RB	QPSK	21152+21350	100RB#0+100RB#0	37.53	38.65	PASS
CA_7C	100RB+100RB	16QAM	21152+21350	100RB#0+100RB#0	37.51	38.95	PASS
CA_7C	100RB+100RB	64QAM	21152+21350	100RB#0+100RB#0	37.17	38.93	PASS

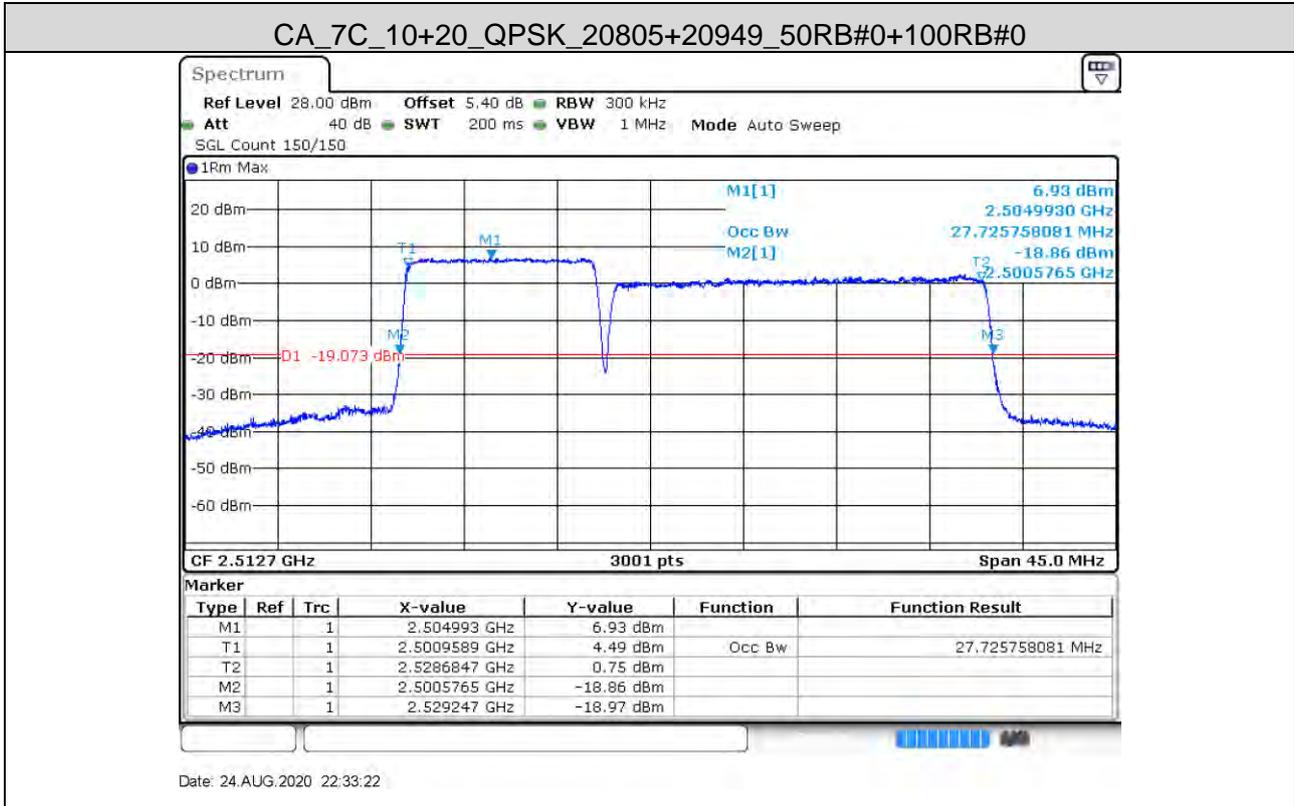


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

### 4.1 For LTE

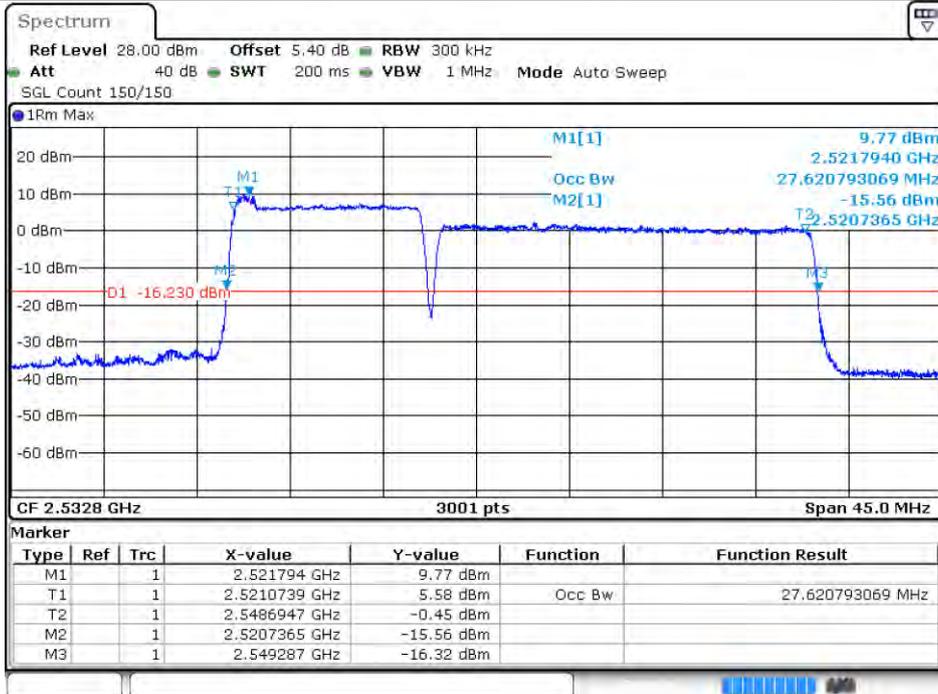
#### 4.1.1 Test Band = LTE Band CA\_7C



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.

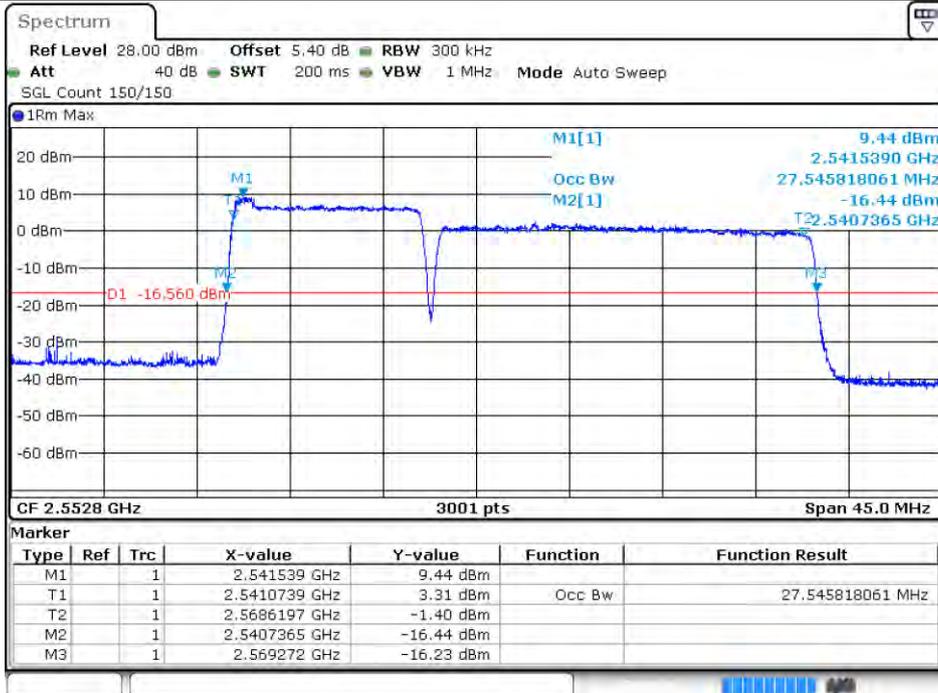
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

**CA\_7C\_10+20\_QPSK\_21006+21150\_50RB#0+100RB#0**



Date: 24.AUG.2020 22:35:51

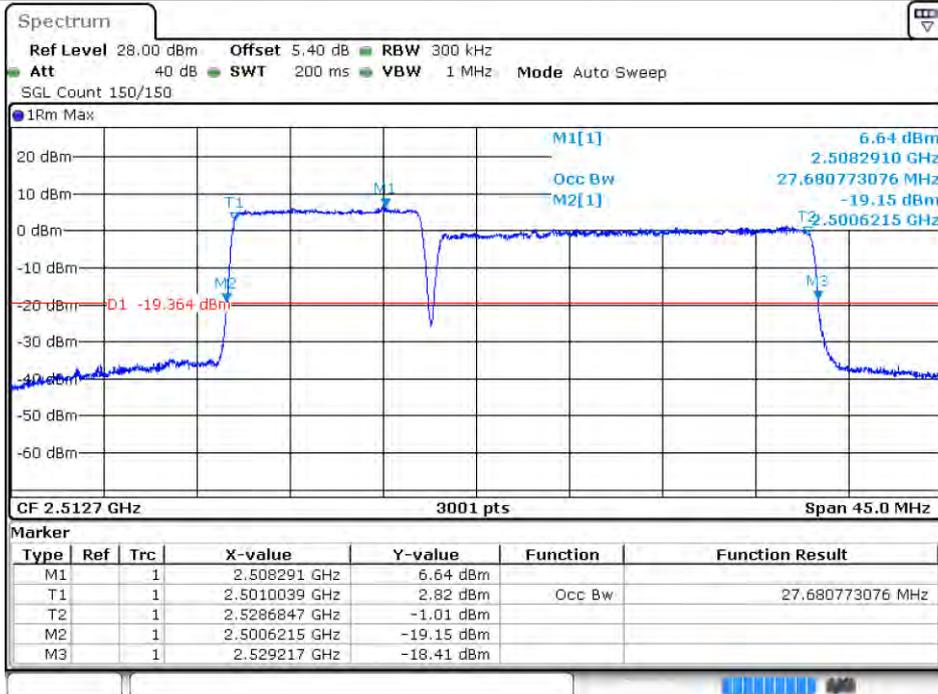
**CA\_7C\_10+20\_QPSK\_21206+21350\_50RB#0+100RB#0**



Date: 24.AUG.2020 22:38:00

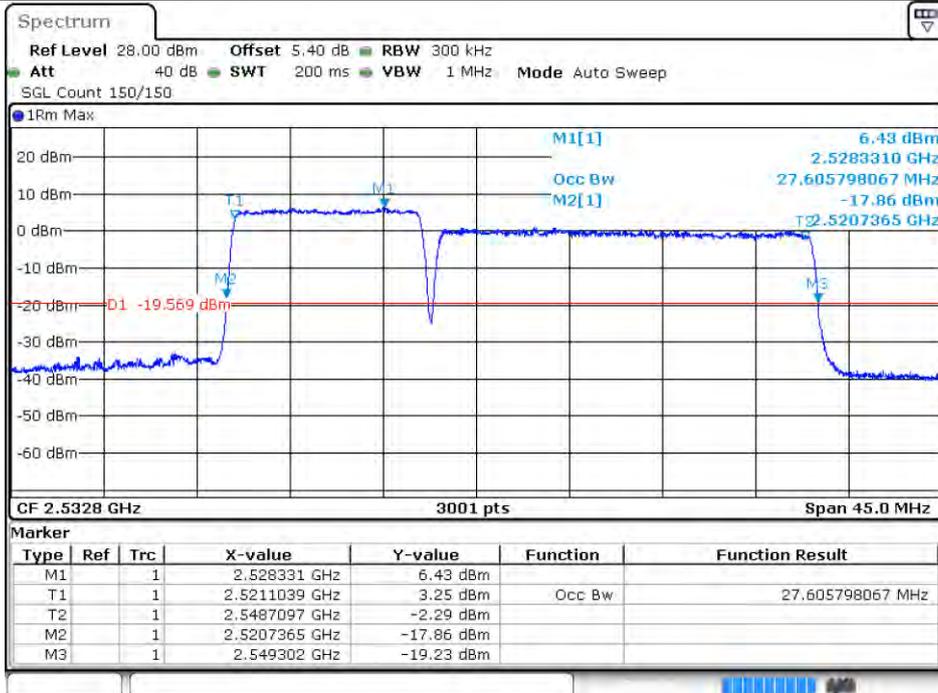


CA\_7C\_10+20\_16QAM\_20805+20949\_50RB#0+100RB#0



Date: 24.AUG.2020 22:33:59

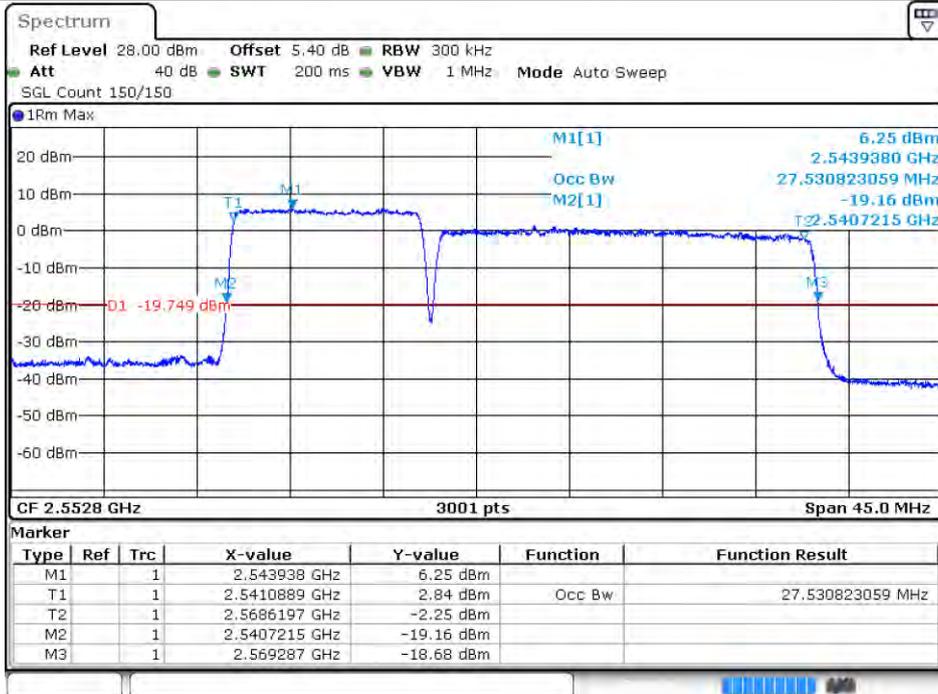
CA\_7C\_10+20\_16QAM\_21006+21150\_50RB#0+100RB#0



Date: 24.AUG.2020 22:36:28

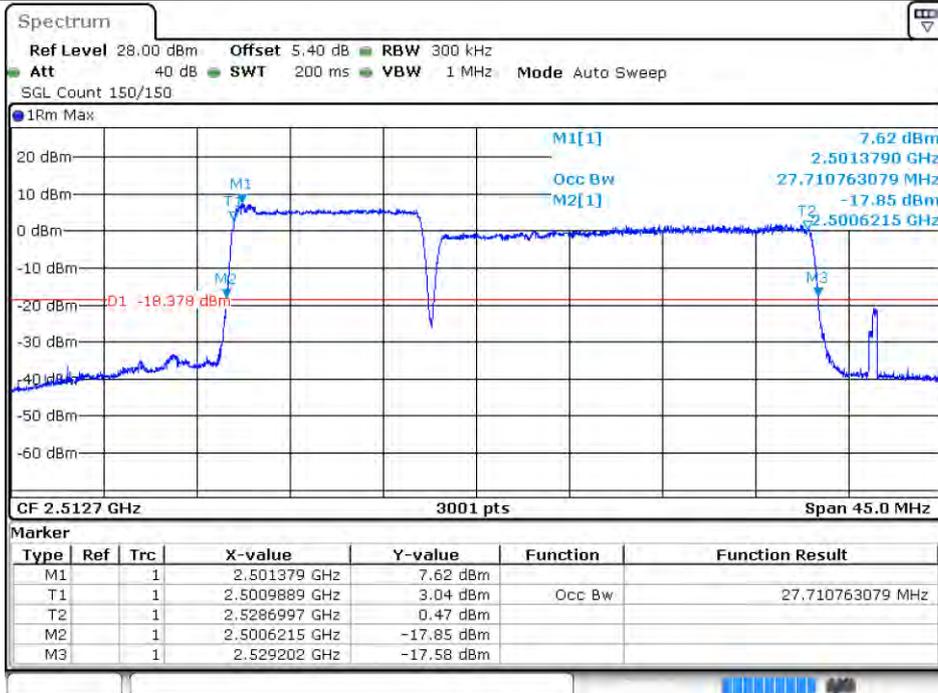


CA\_7C\_10+20\_16QAM\_21206+21350\_50RB#0+100RB#0



Date: 24.AUG.2020 22:38:38

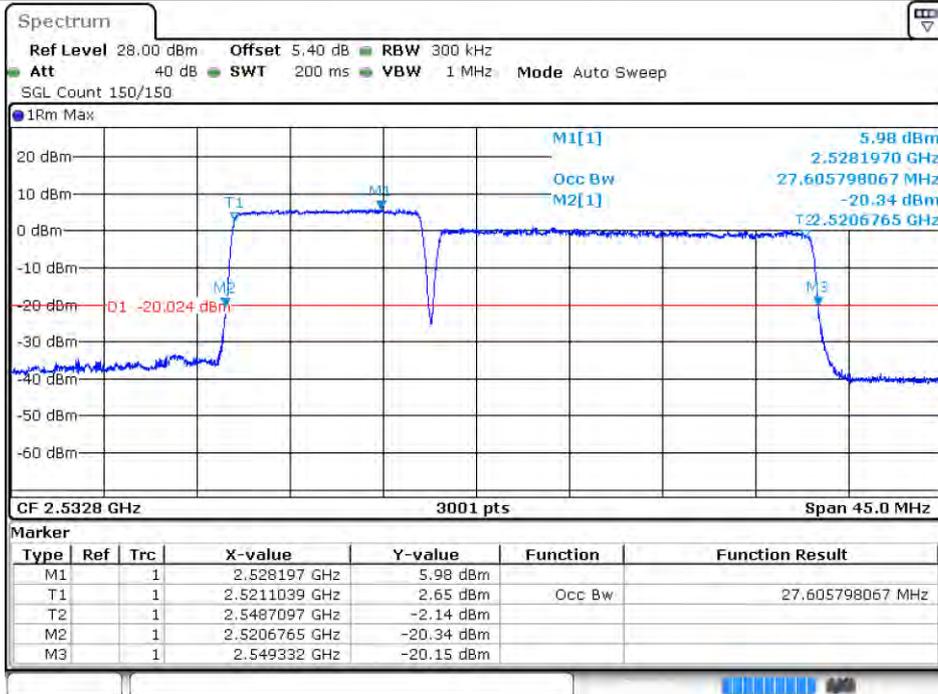
CA\_7C\_10+20\_64QAM\_20805+20949\_50RB#0+100RB#0



Date: 24.AUG.2020 22:34:55

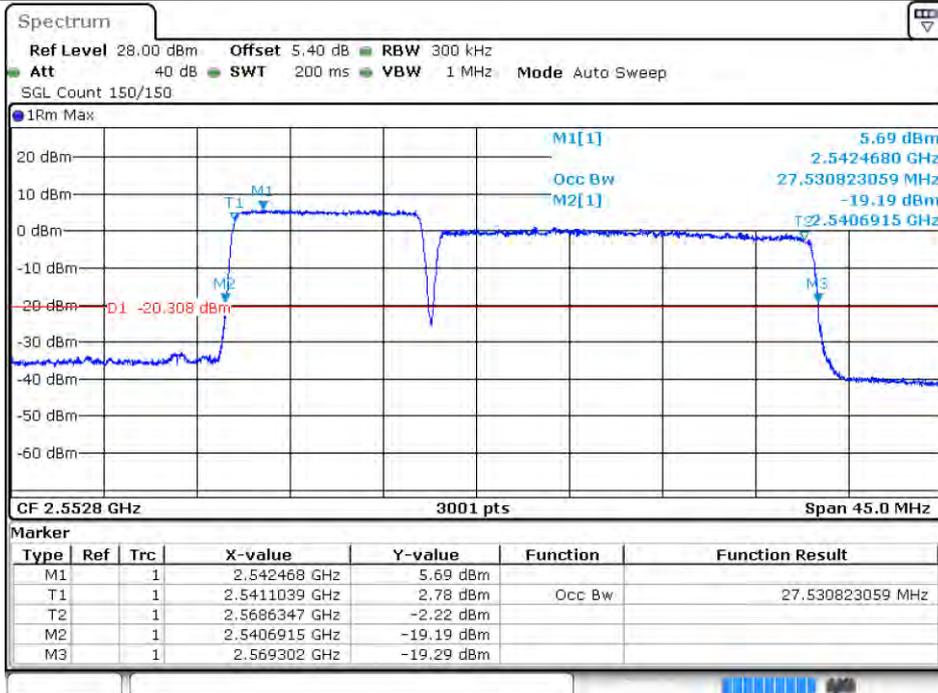


CA\_7C\_10+20\_64QAM\_21006+21150\_50RB#0+100RB#0



Date: 24.AUG.2020 22:37:05

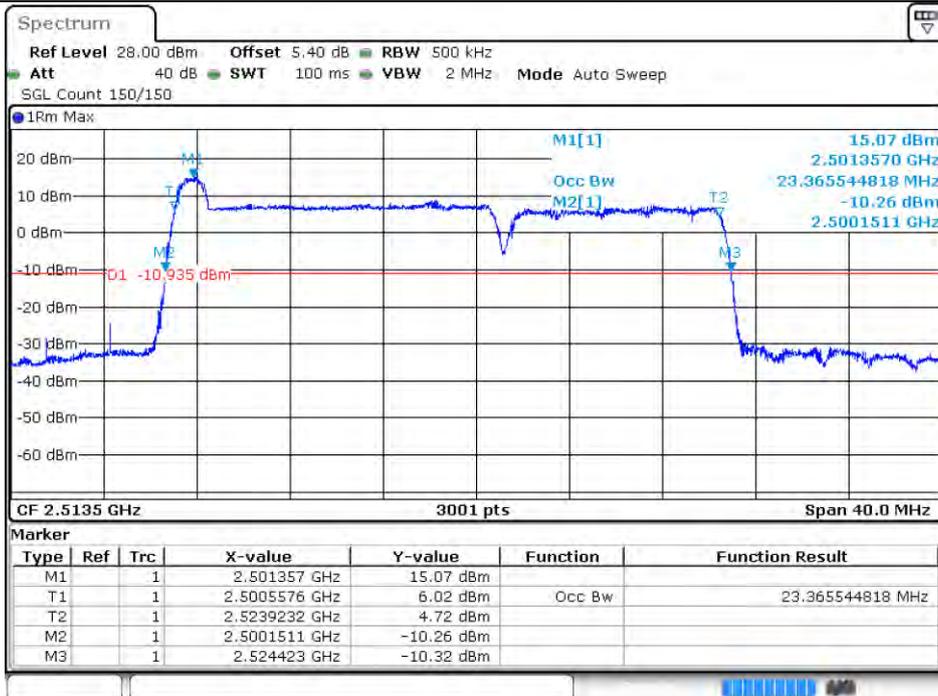
CA\_7C\_10+20\_64QAM\_21206+21350\_50RB#0+100RB#0



Date: 24.AUG.2020 22:39:15

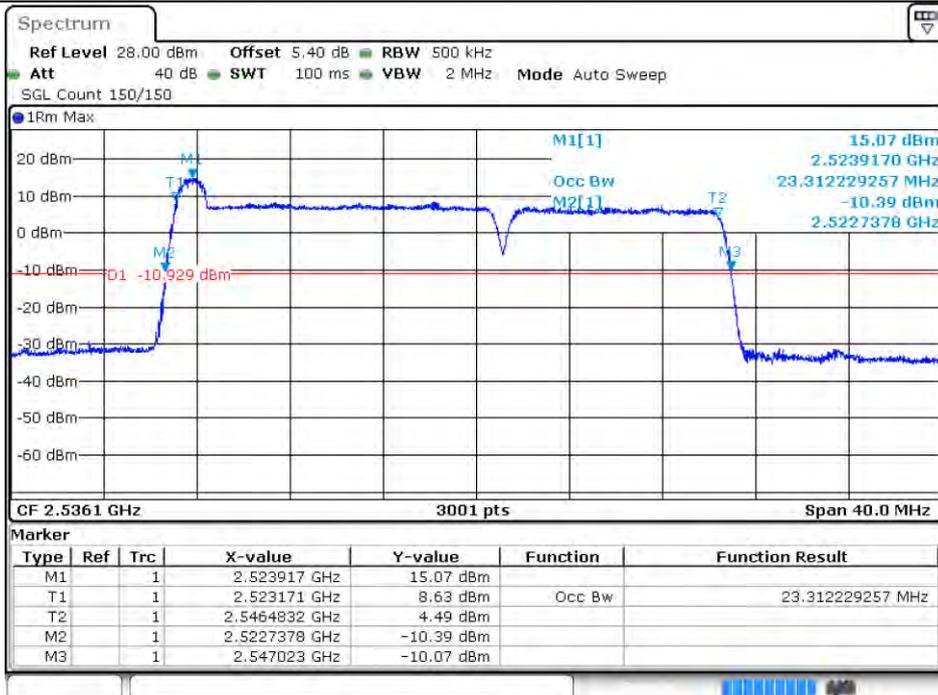


**CA\_7C\_15+10\_QPSK\_20825+20945\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:44:45

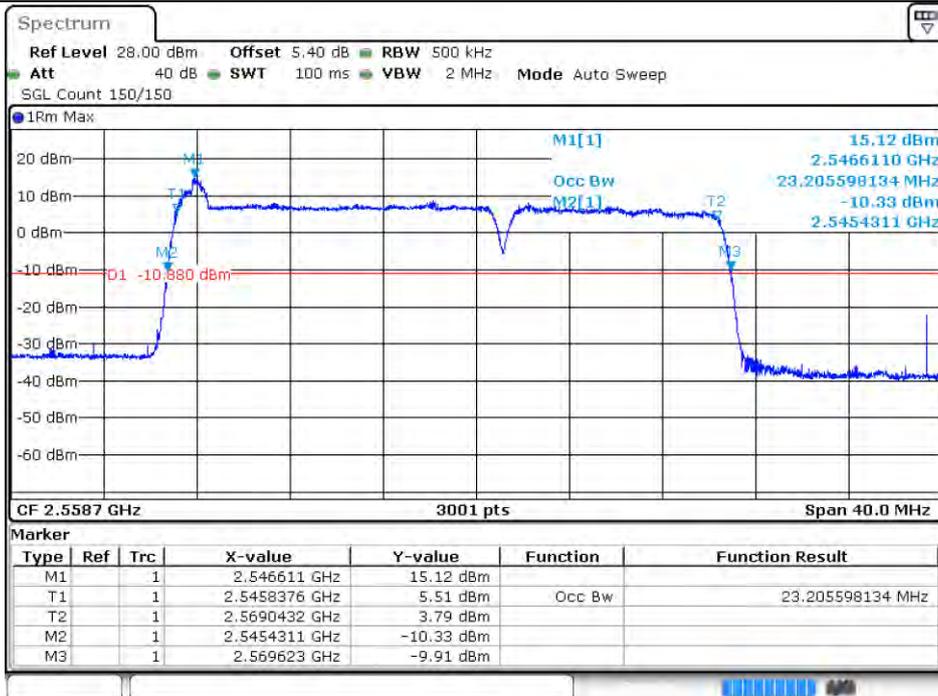
**CA\_7C\_15+10\_QPSK\_21051+21171\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:46:06

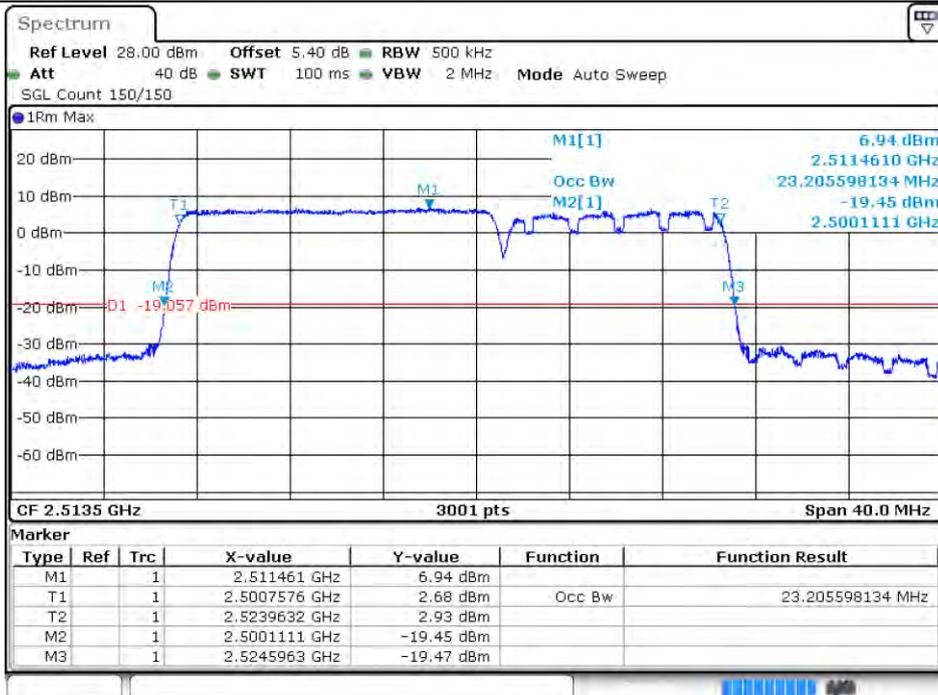


**CA\_7C\_15+10\_QPSK\_21277+21397\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:47:43

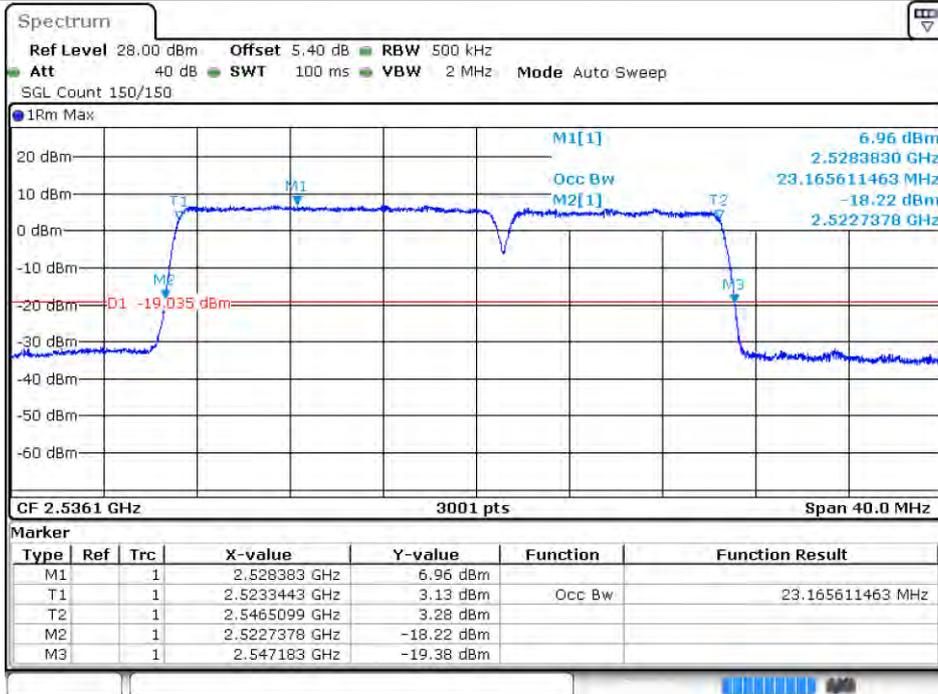
**CA\_7C\_15+10\_16QAM\_20825+20945\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:45:07

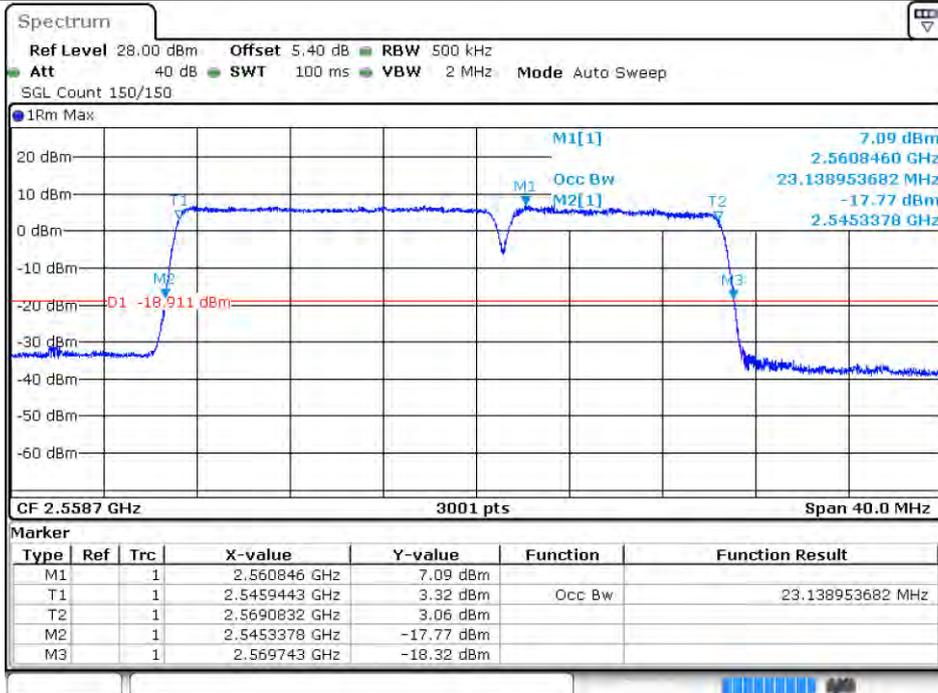


CA\_7C\_15+10\_16QAM\_21051+21171\_75RB#0+50RB#0



Date: 24.AUG.2020 22:46:28

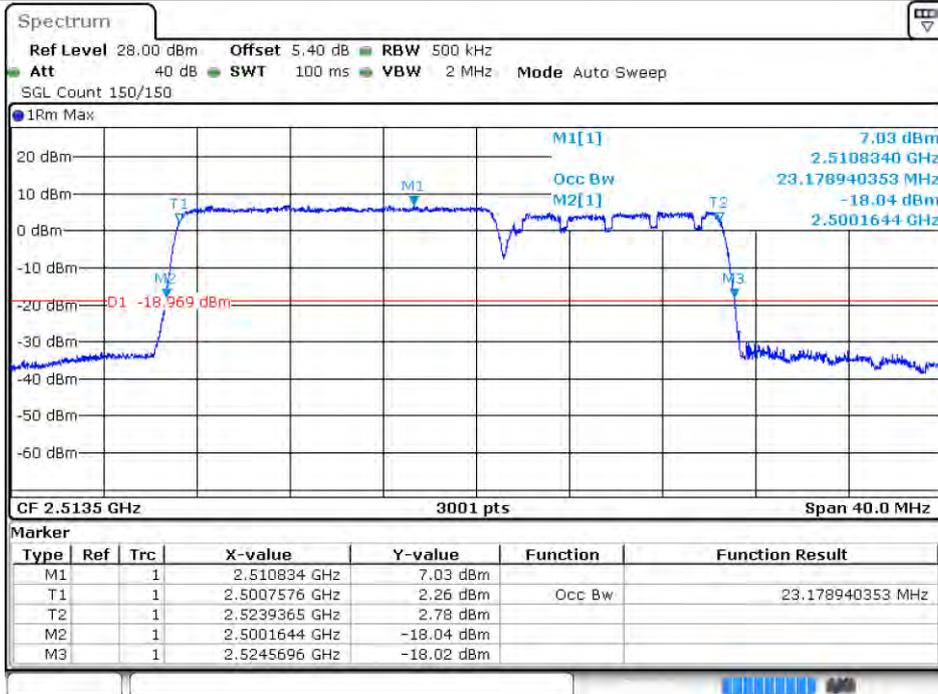
CA\_7C\_15+10\_16QAM\_21277+21397\_75RB#0+50RB#0



Date: 24.AUG.2020 22:48:05

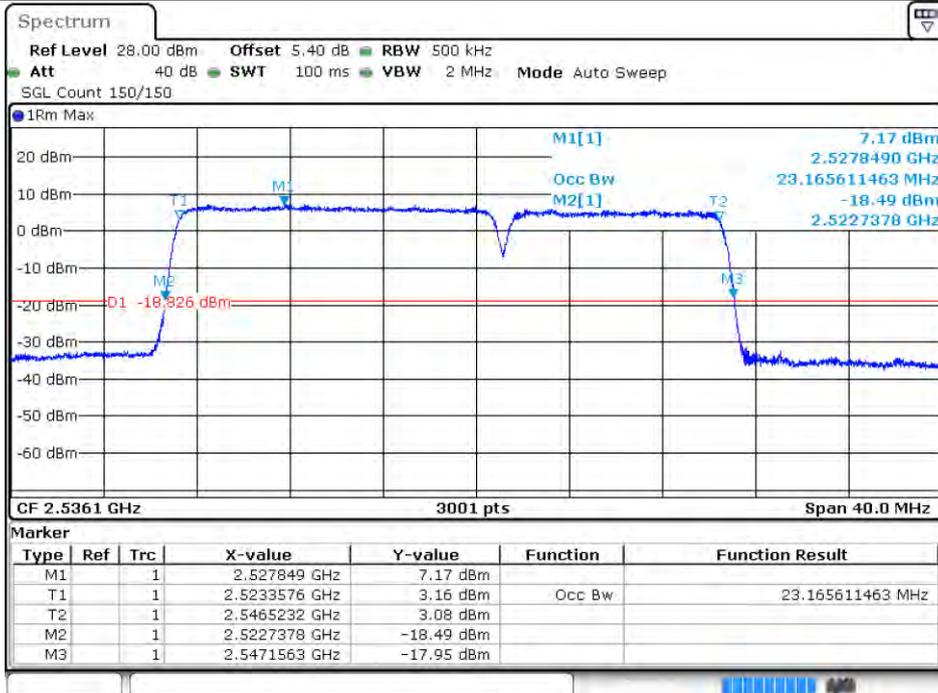


**CA\_7C\_15+10\_64QAM\_20825+20945\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:45:29

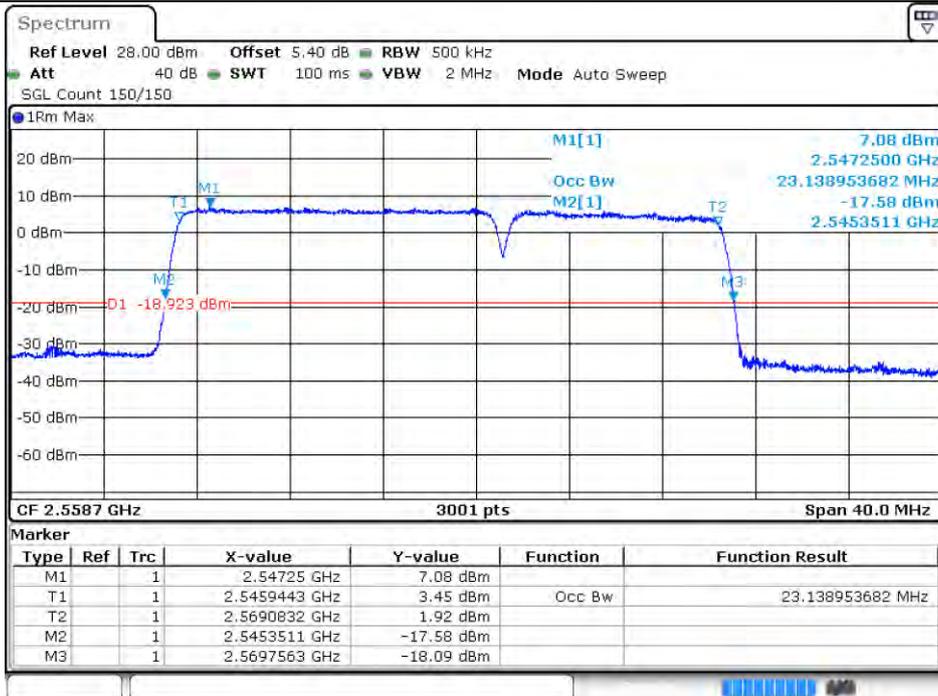
**CA\_7C\_15+10\_64QAM\_21051+21171\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:46:50

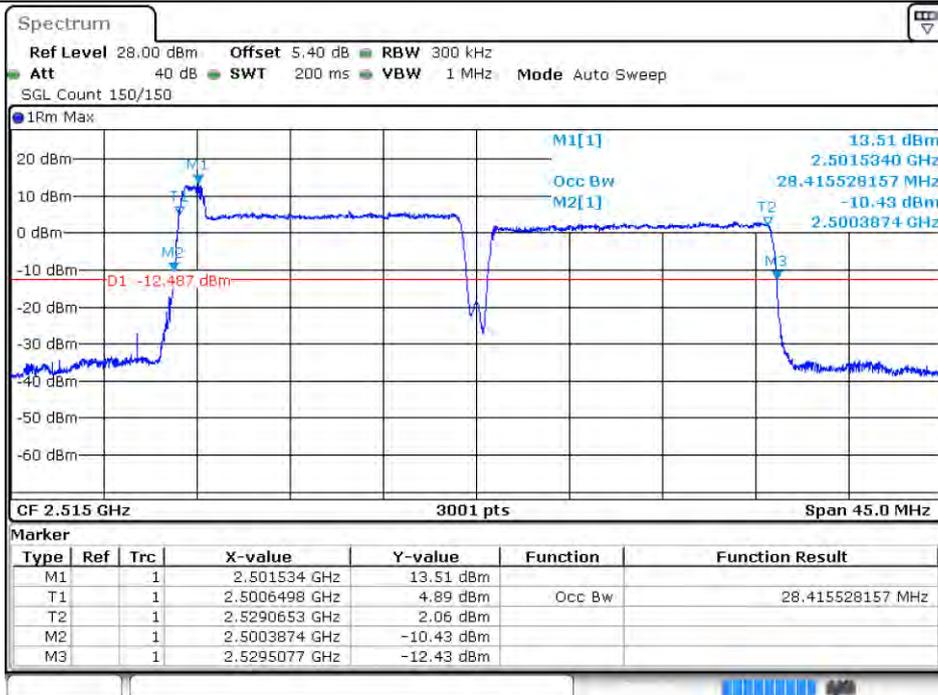


**CA\_7C\_15+10\_64QAM\_21277+21397\_75RB#0+50RB#0**



Date: 24.AUG.2020 22:48:27

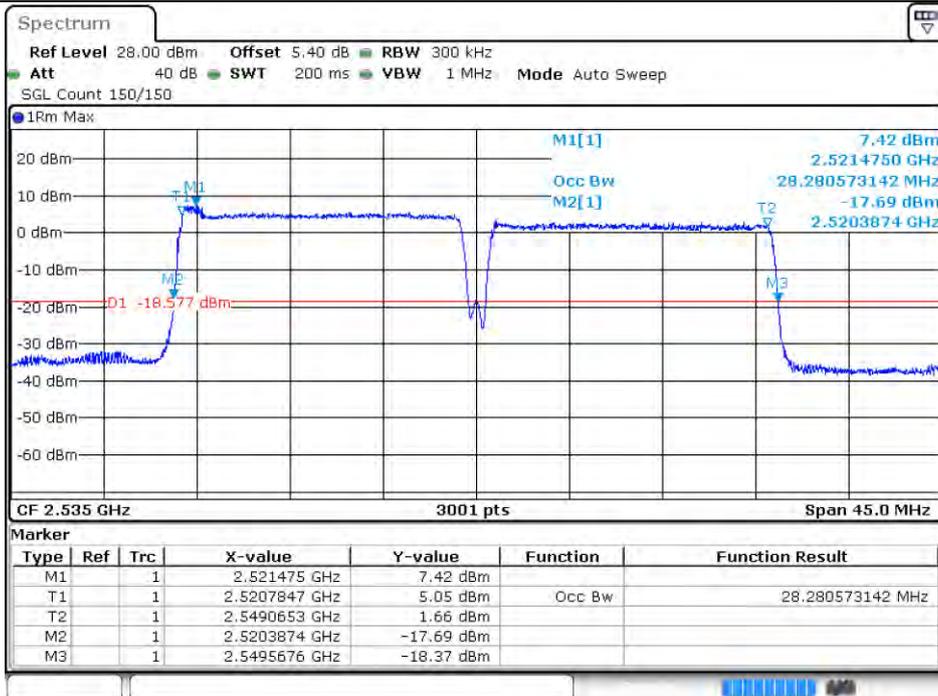
**CA\_7C\_15+15\_QPSK\_20825+20975\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:49:37

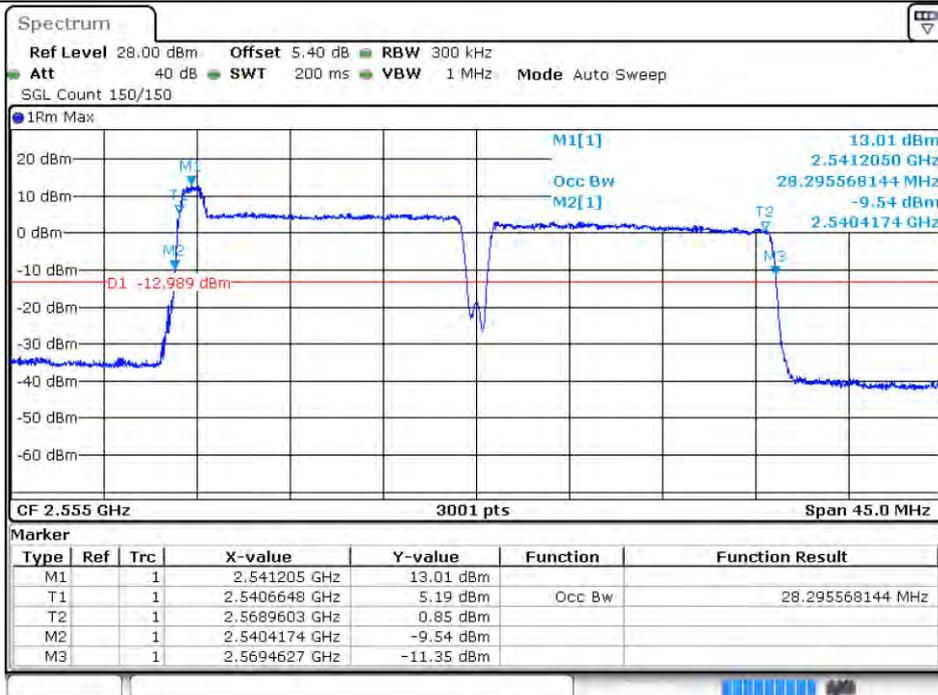


**CA\_7C\_15+15\_QPSK\_21025+21175\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:51:46

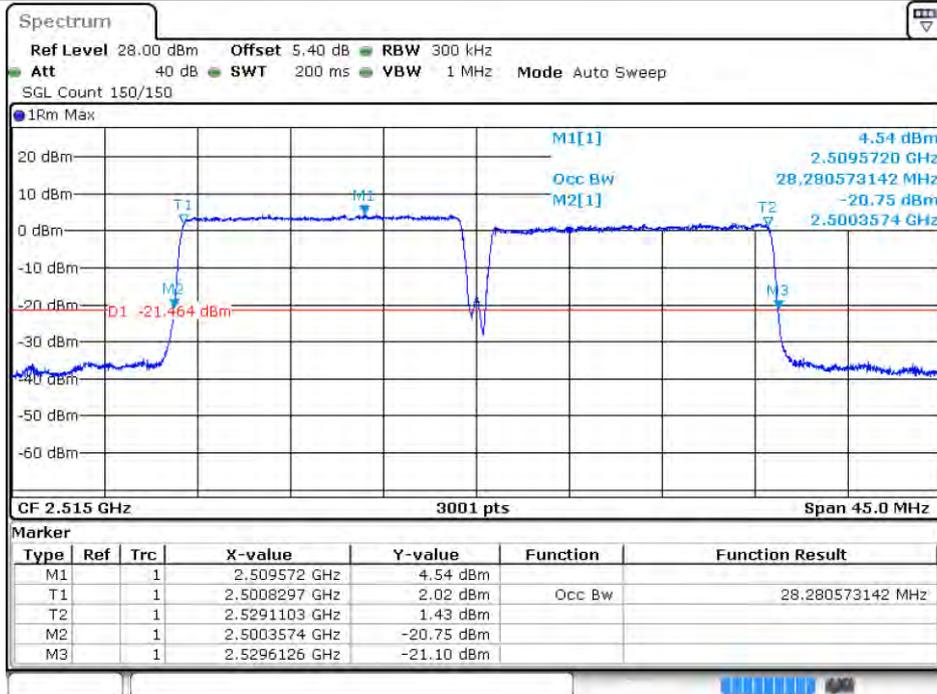
**CA\_7C\_15+15\_QPSK\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:53:55

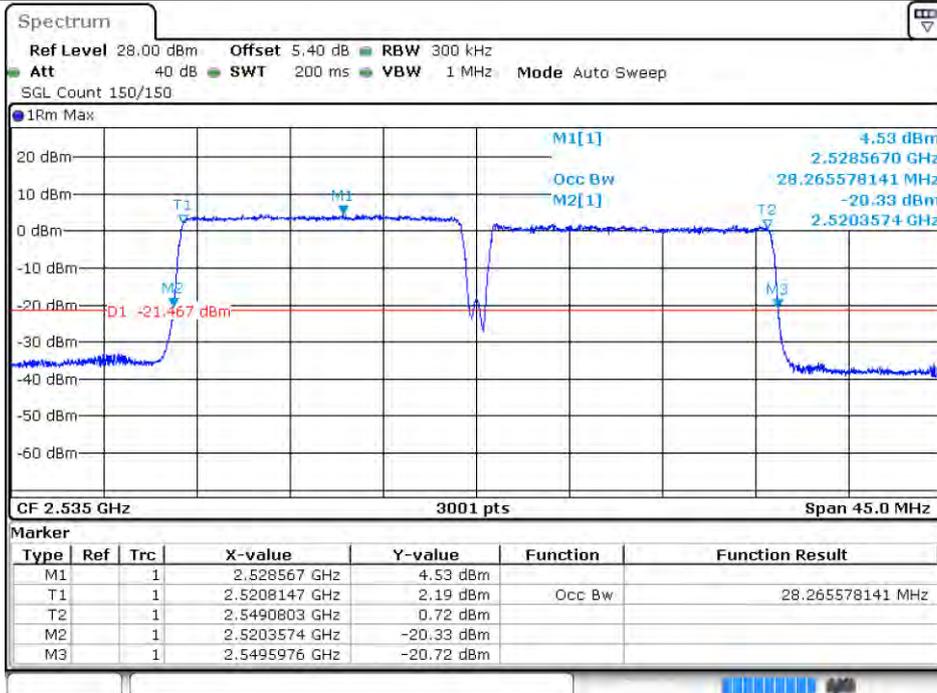


CA\_7C\_15+15\_16QAM\_20825+20975\_75RB#0+75RB#0



Date: 24.AUG.2020 22:50:14

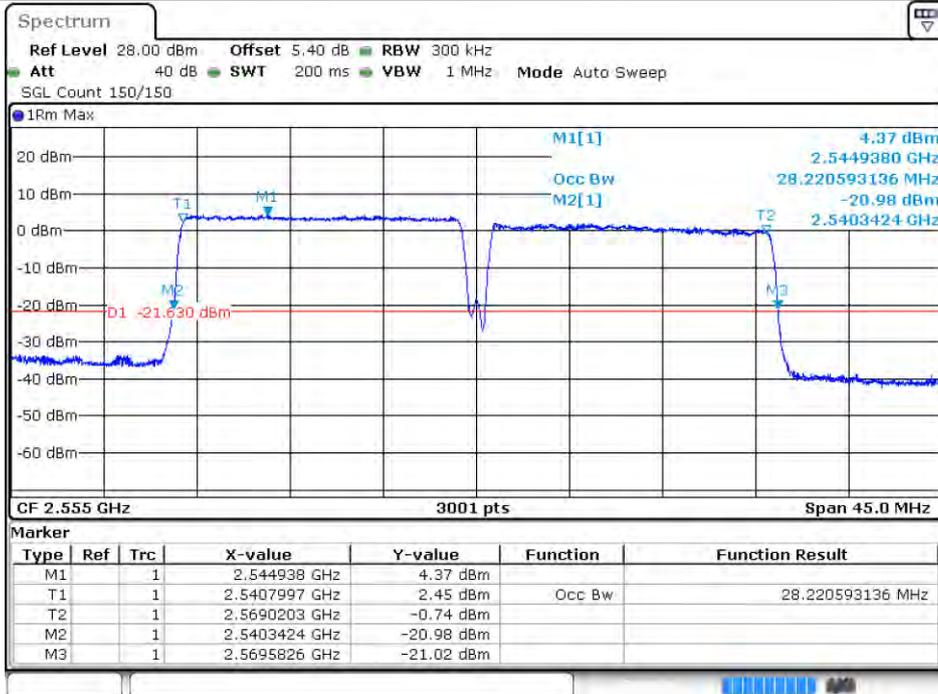
CA\_7C\_15+15\_16QAM\_21025+21175\_75RB#0+75RB#0



Date: 24.AUG.2020 22:52:23

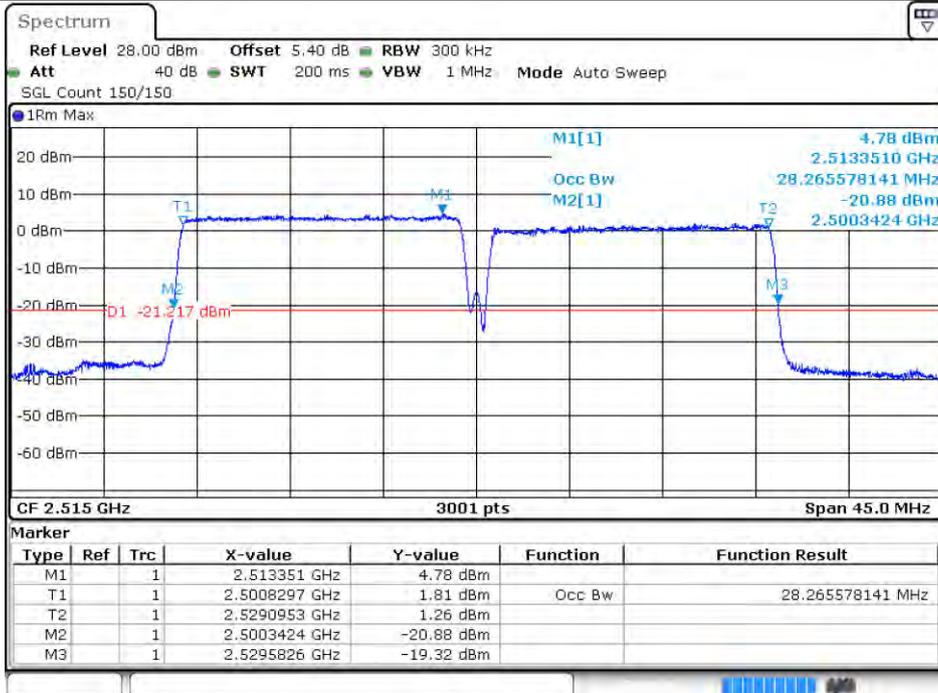


**CA\_7C\_15+15\_16QAM\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:54:32

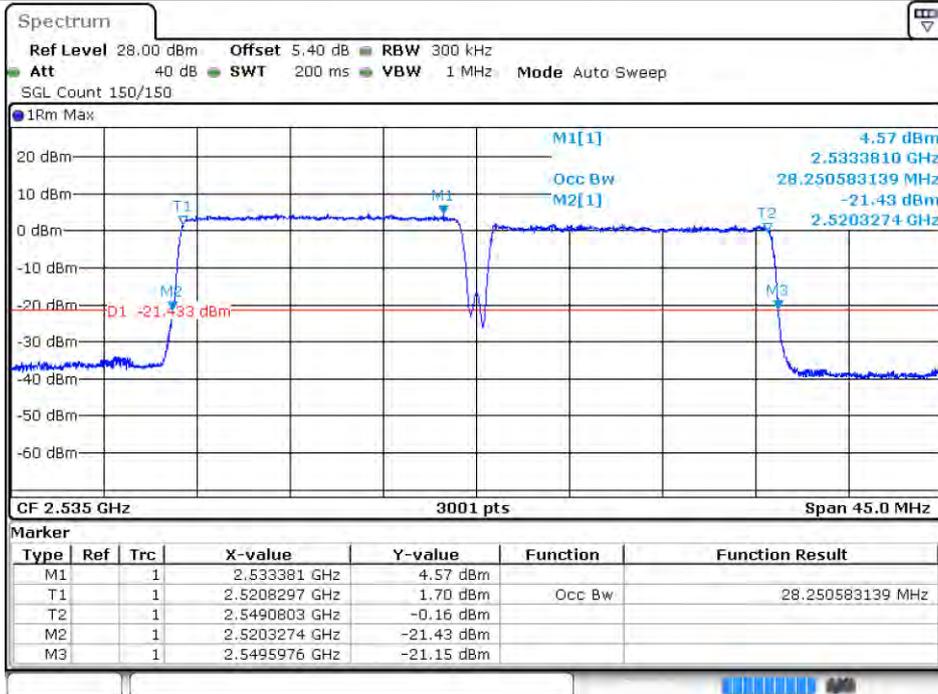
**CA\_7C\_15+15\_64QAM\_20825+20975\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:50:51

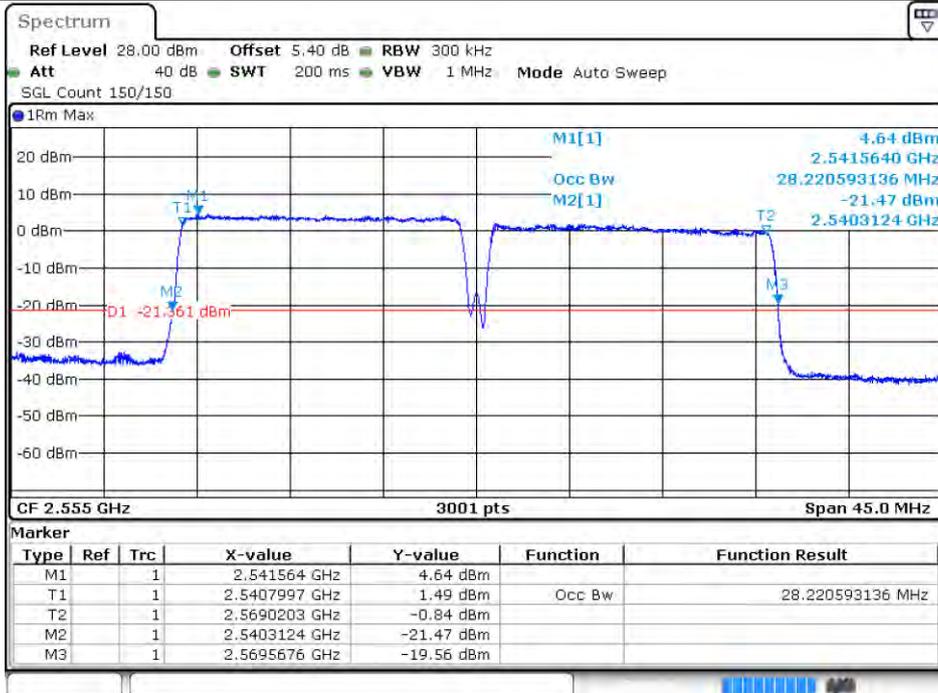


**CA\_7C\_15+15\_64QAM\_21025+21175\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:53:00

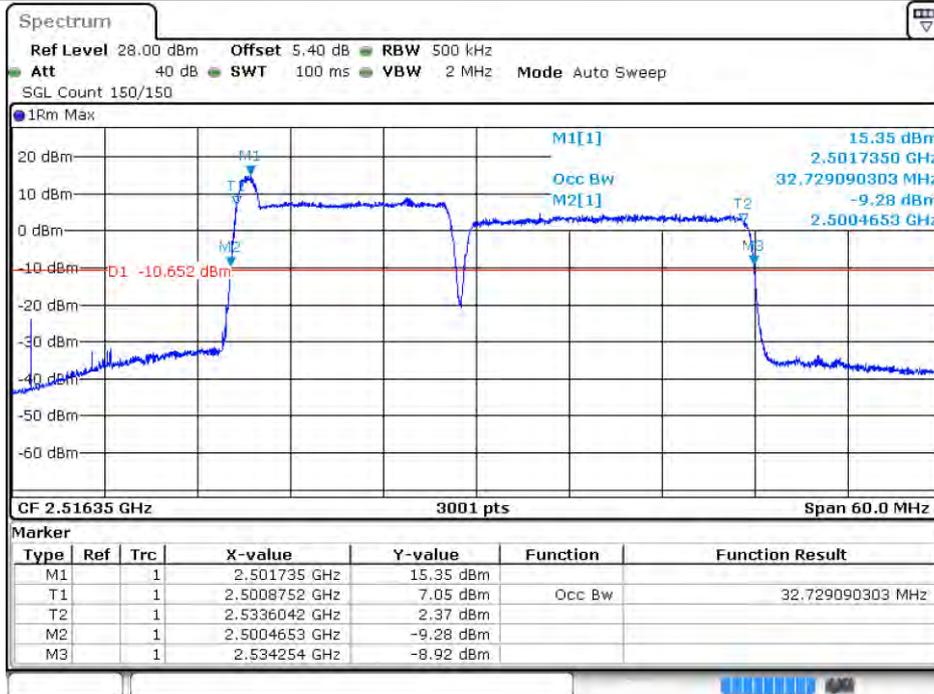
**CA\_7C\_15+15\_64QAM\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 22:55:09

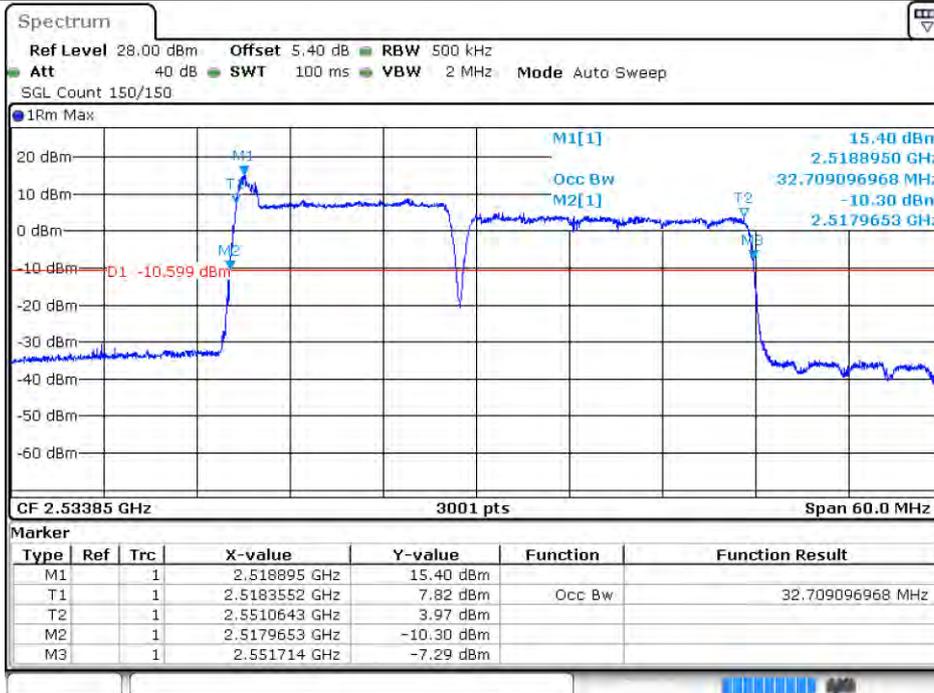


CA\_7C\_15+20\_QPSK\_20828+20999\_75RB#0+100RB#0



Date: 24.AUG.2020 22:56:05

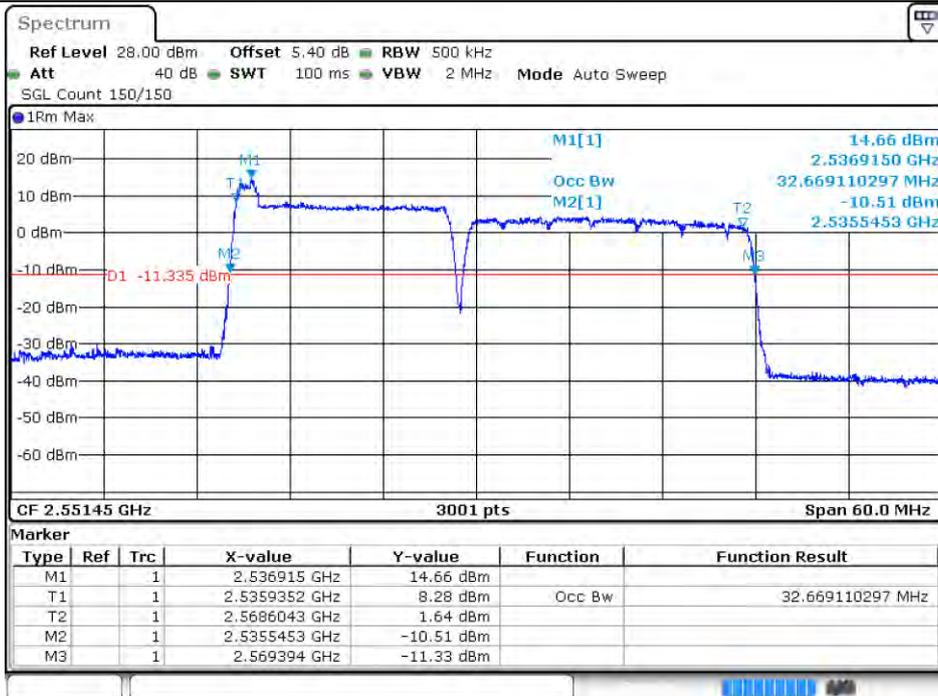
CA\_7C\_15+20\_QPSK\_21003+21174\_75RB#0+100RB#0



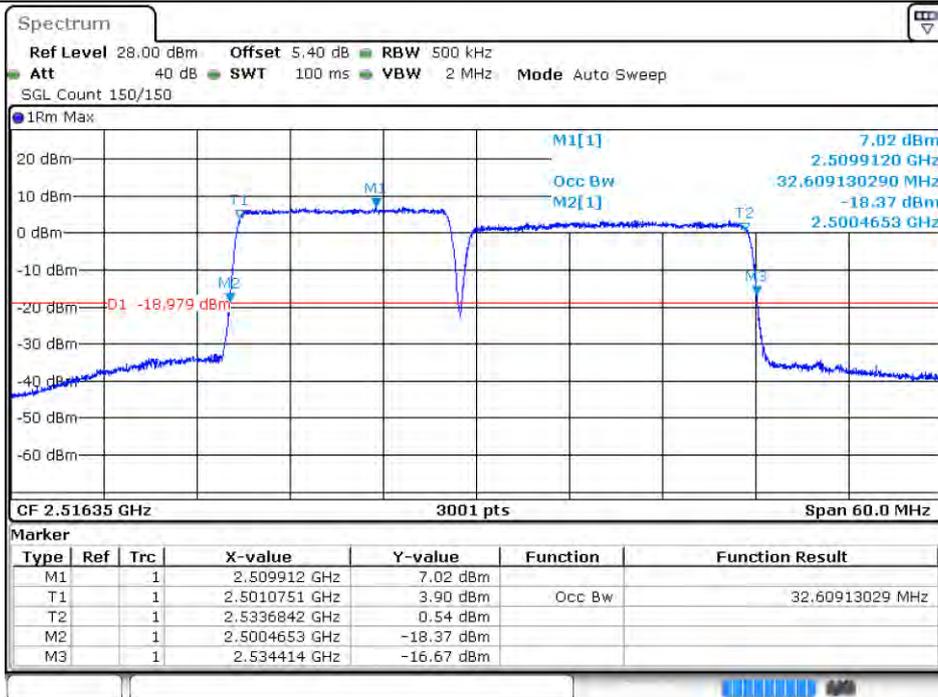
Date: 24.AUG.2020 22:57:44



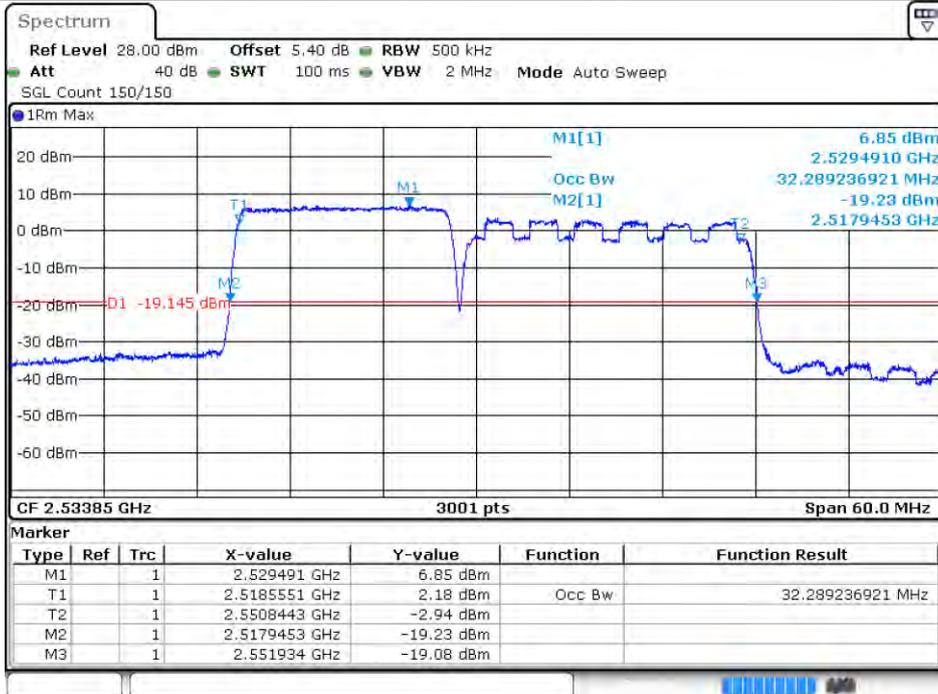
**CA\_7C\_15+20\_QPSK\_21179+21350\_75RB#0+100RB#0**



**CA\_7C\_15+20\_16QAM\_20828+20999\_75RB#0+100RB#0**

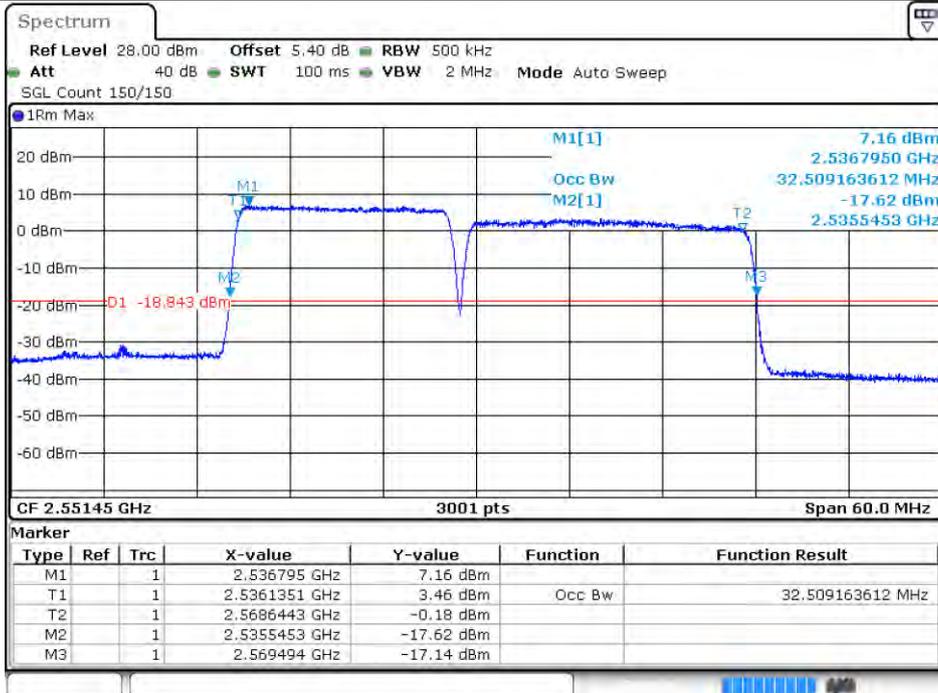


CA\_7C\_15+20\_16QAM\_21003+21174\_75RB#0+100RB#0



Date: 24.AUG.2020 22:58:07

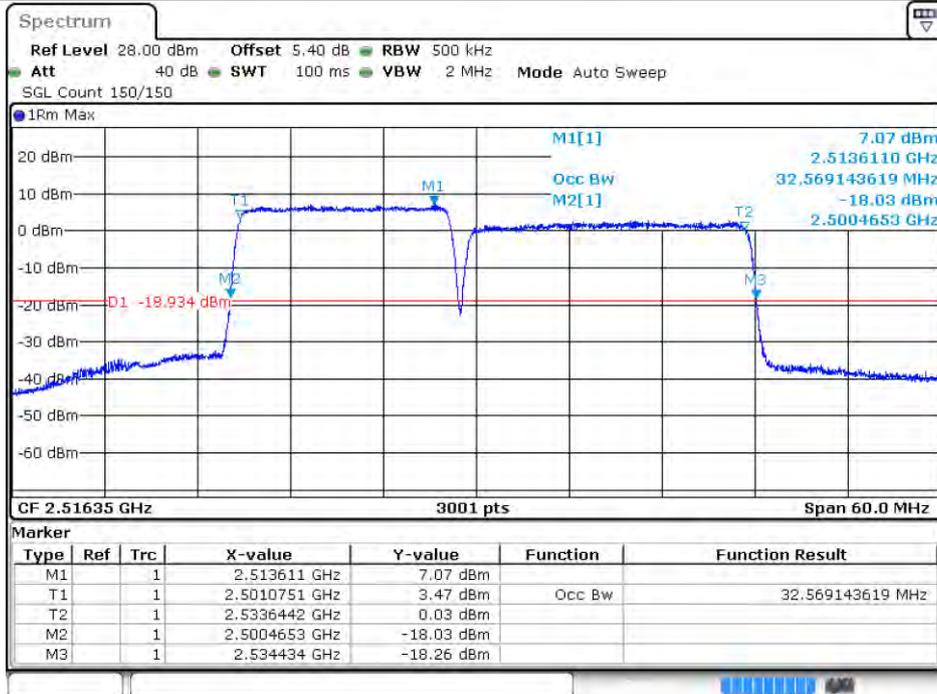
CA\_7C\_15+20\_16QAM\_21179+21350\_75RB#0+100RB#0



Date: 24.AUG.2020 22:59:30

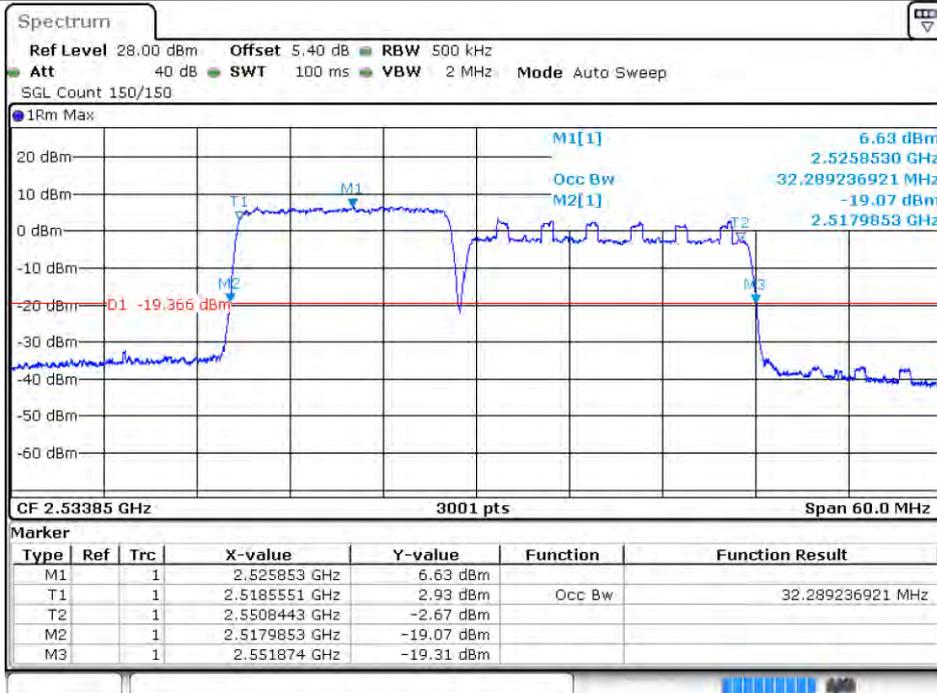


CA\_7C\_15+20\_64QAM\_20828+20999\_75RB#0+100RB#0



Date: 24.AUG.2020 22:56:51

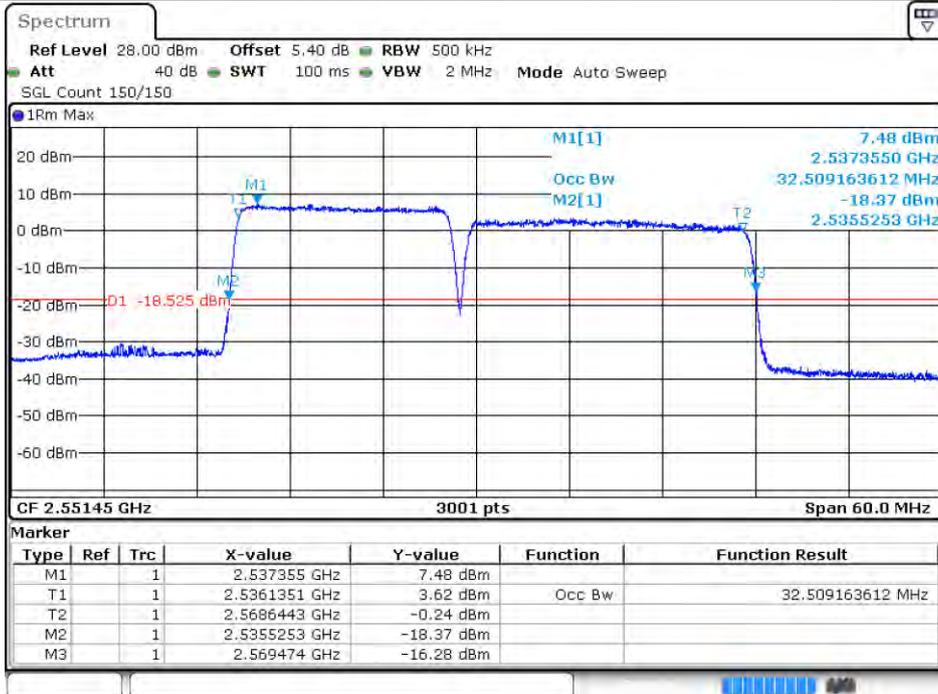
CA\_7C\_15+20\_64QAM\_21003+21174\_75RB#0+100RB#0



Date: 24.AUG.2020 22:58:29

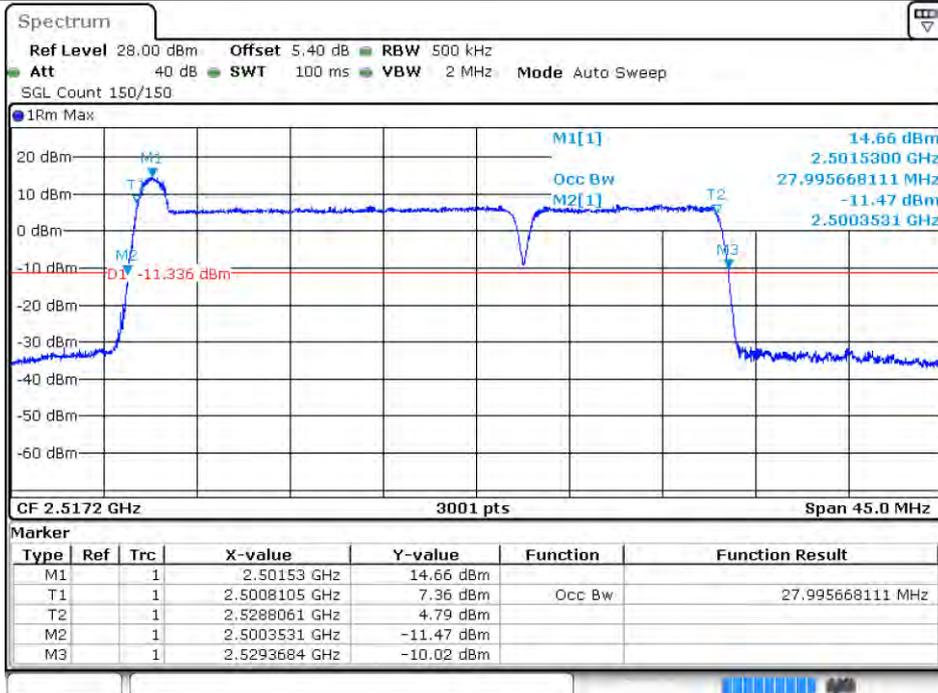


CA\_7C\_15+20\_64QAM\_21179+21350\_75RB#0+100RB#0



Date: 24.AUG.2020 22:59:53

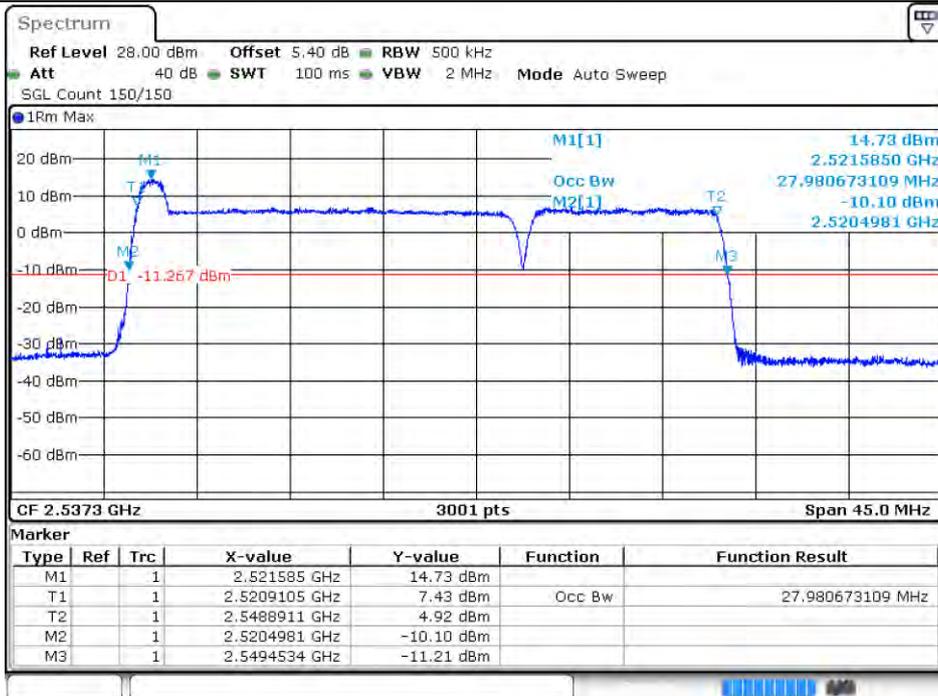
CA\_7C\_20+10\_QPSK\_20850+20994\_100RB#0+50RB#0



Date: 24.AUG.2020 22:40:09

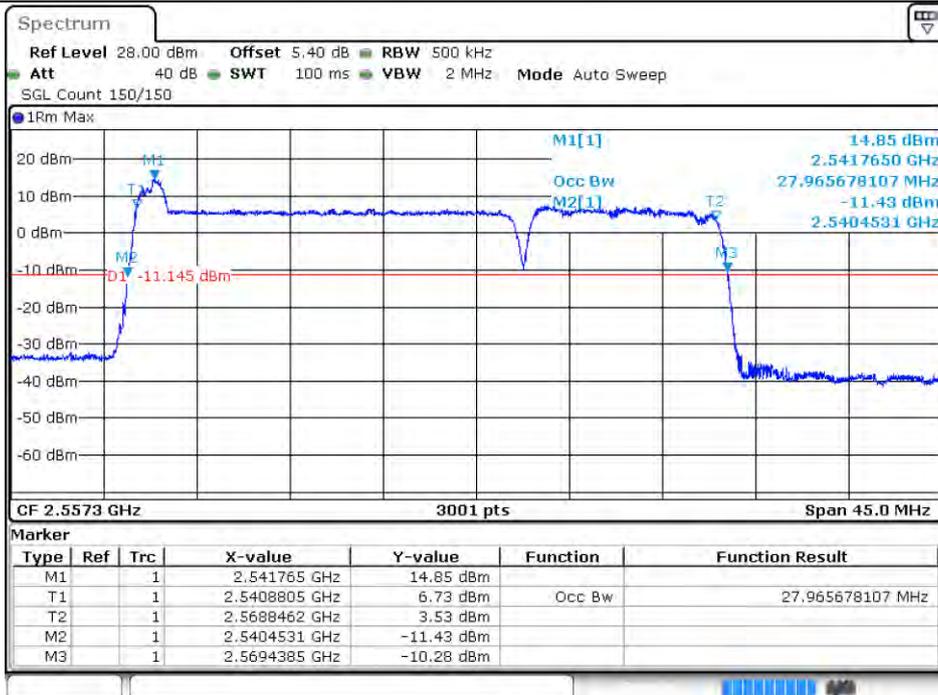


CA\_7C\_20+10\_QPSK\_21051+21195\_100RB#0+50RB#0



Date: 24.AUG.2020 22:41:45

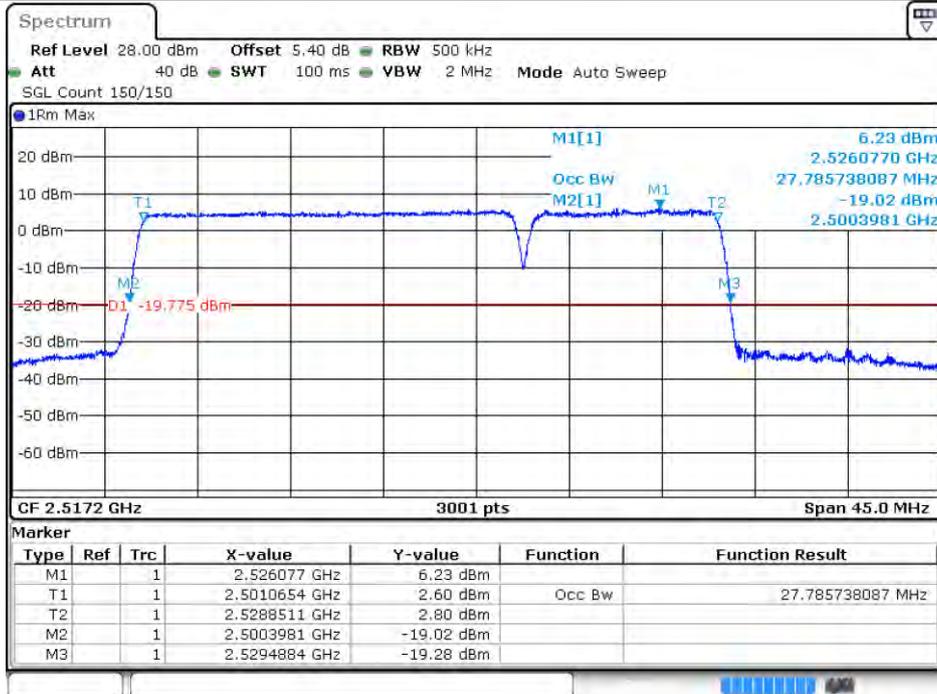
CA\_7C\_20+10\_QPSK\_21251+21395\_100RB#0+50RB#0



Date: 24.AUG.2020 22:43:07

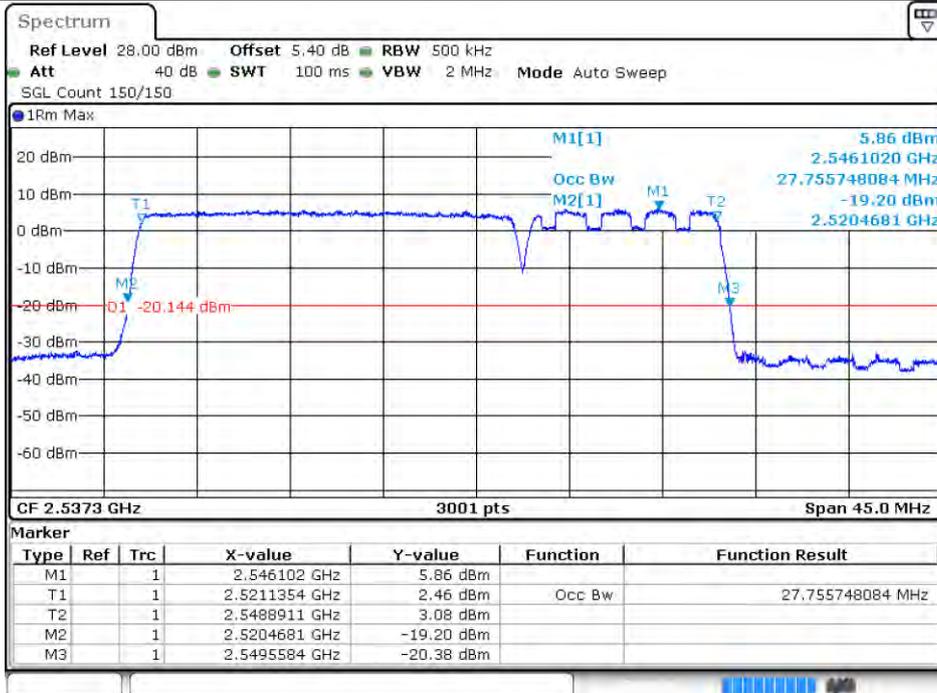


CA\_7C\_20+10\_16QAM\_20850+20994\_100RB#0+50RB#0



Date: 24.AUG.2020 22:40:31

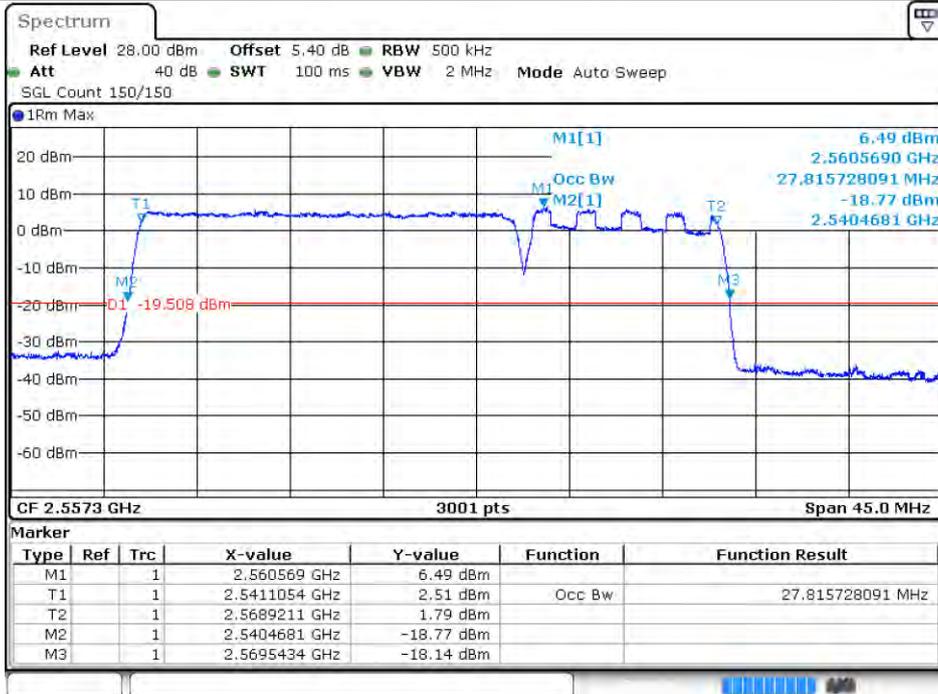
CA\_7C\_20+10\_16QAM\_21051+21195\_100RB#0+50RB#0



Date: 24.AUG.2020 22:42:06

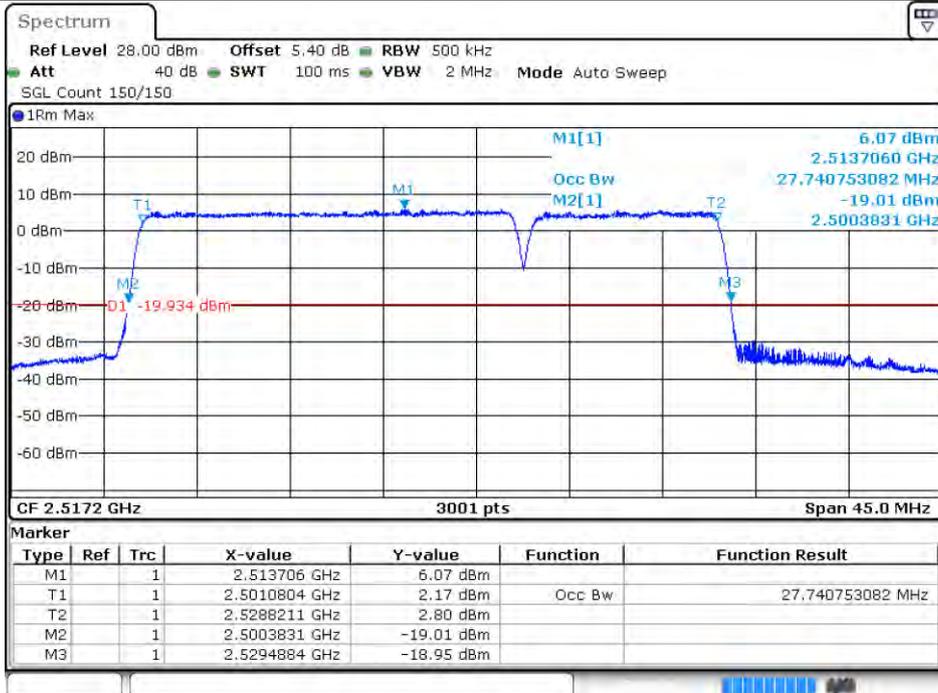


CA\_7C\_20+10\_16QAM\_21251+21395\_100RB#0+50RB#0



Date: 24.AUG.2020 22:43:28

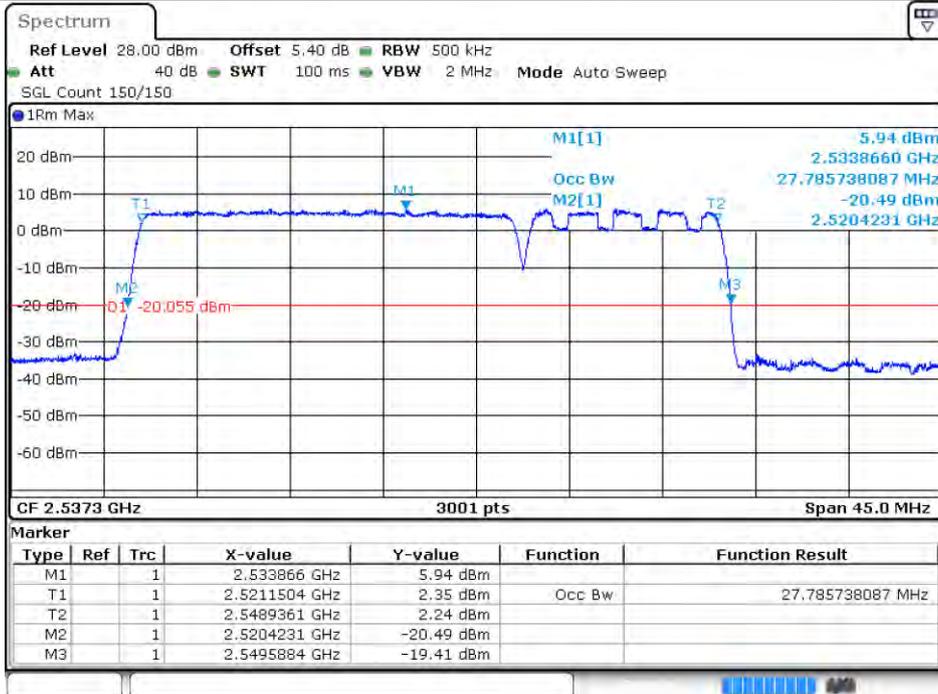
CA\_7C\_20+10\_64QAM\_20850+20994\_100RB#0+50RB#0



Date: 24.AUG.2020 22:40:52



CA\_7C\_20+10\_64QAM\_21051+21195\_100RB#0+50RB#0



Date: 24.AUG.2020 22:42:28

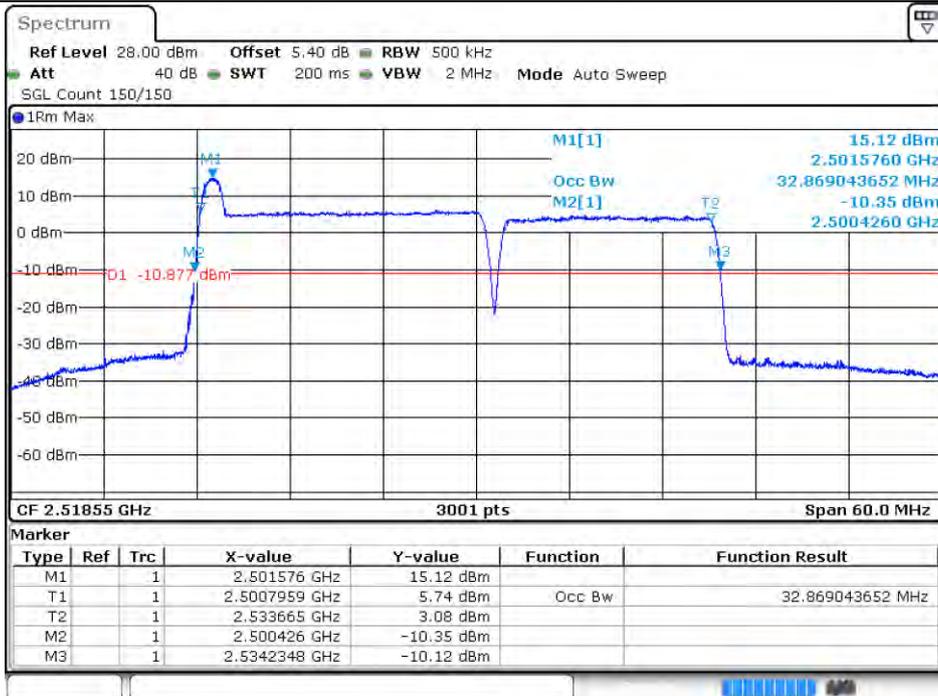
CA\_7C\_20+10\_64QAM\_21251+21395\_100RB#0+50RB#0



Date: 24.AUG.2020 22:43:50

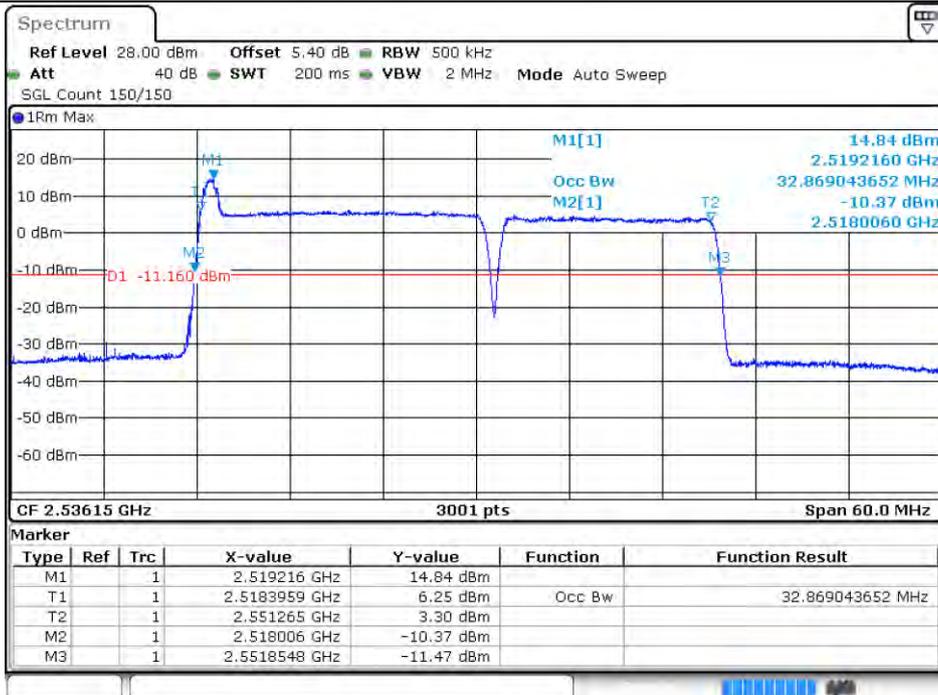


CA\_7C\_20+15\_QPSK\_20850+21021\_100RB#0+75RB#0



Date: 24.AUG.2020 23:01:04

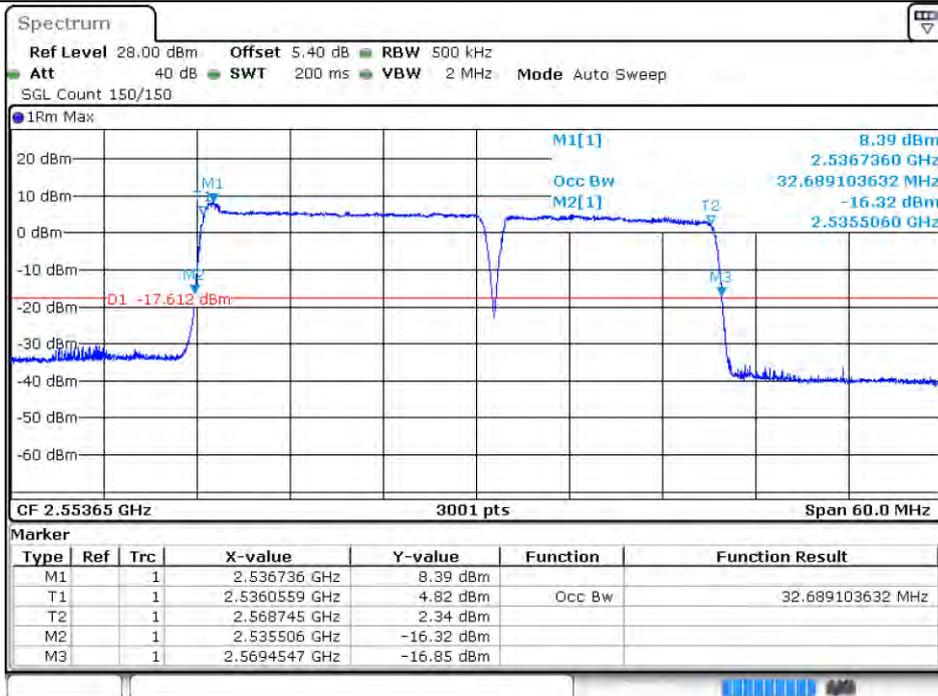
CA\_7C\_20+15\_QPSK\_21026+21197\_100RB#0+75RB#0



Date: 24.AUG.2020 23:03:14

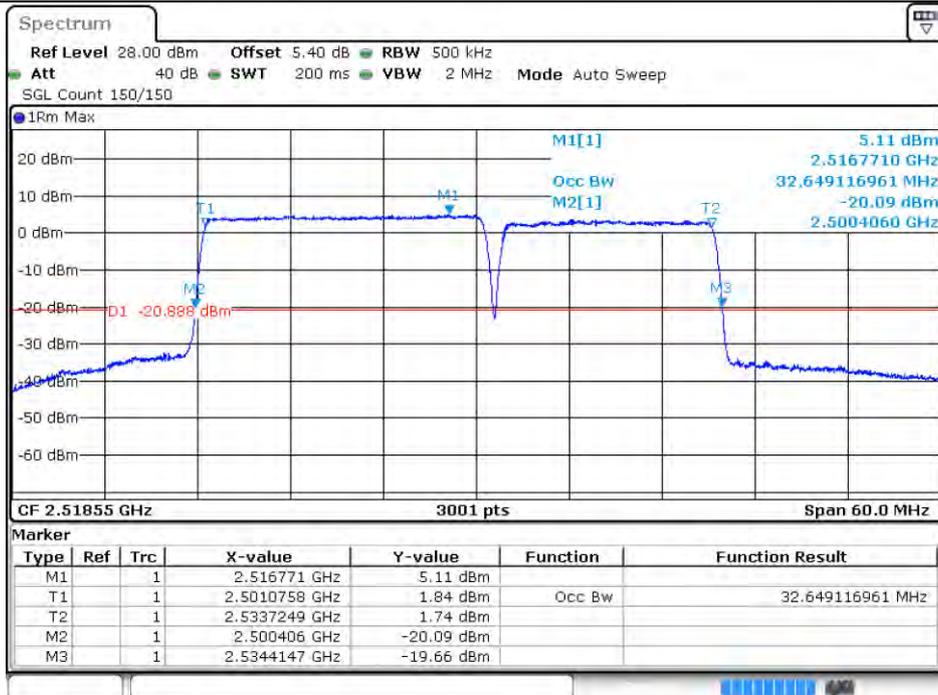


**CA\_7C\_20+15\_QPSK\_21201+21372\_100RB#0+75RB#0**



Date: 24.AUG.2020 23:05:25

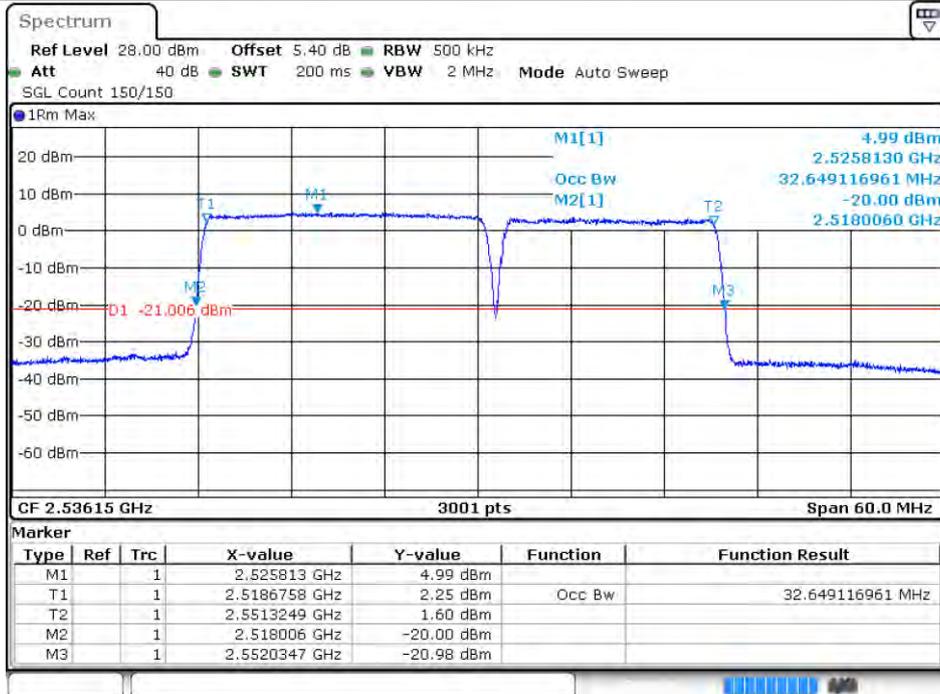
**CA\_7C\_20+15\_16QAM\_20850+21021\_100RB#0+75RB#0**



Date: 24.AUG.2020 23:01:42

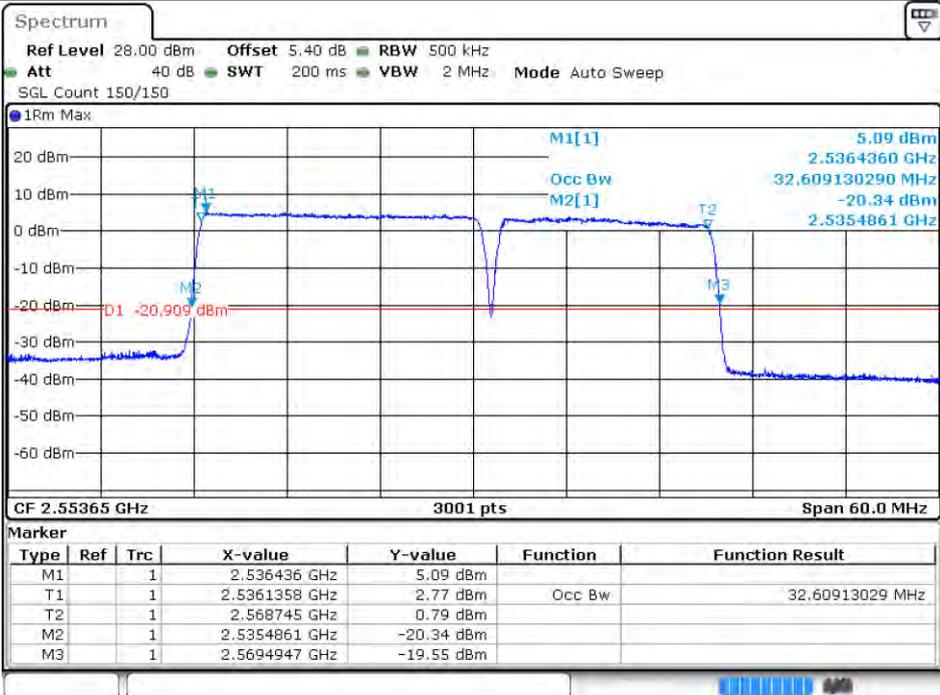


CA\_7C\_20+15\_16QAM\_21026+21197\_100RB#0+75RB#0



Date: 24.AUG.2020 23:03:53

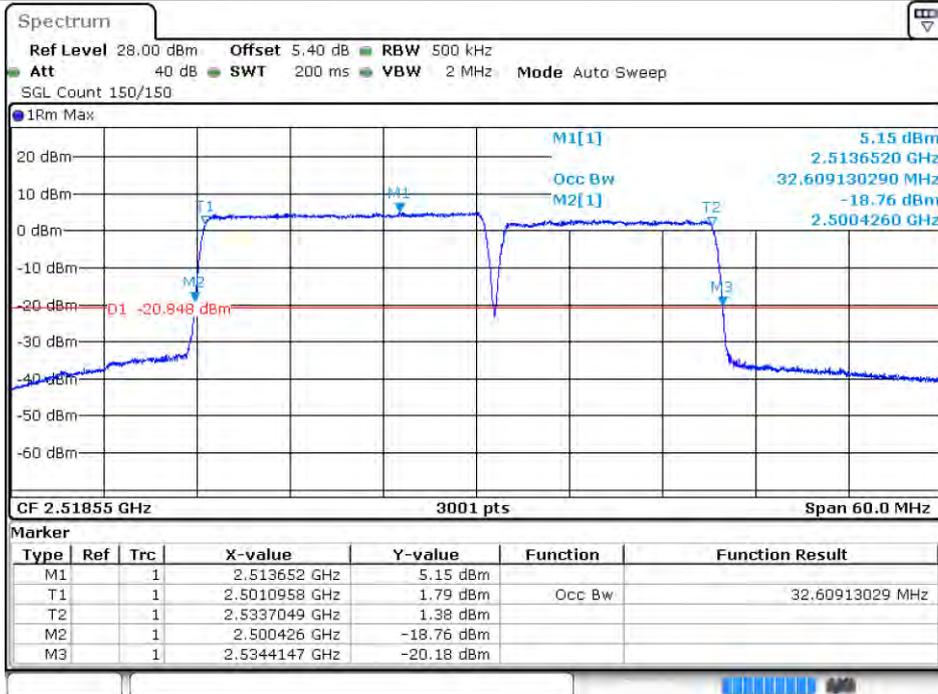
CA\_7C\_20+15\_16QAM\_21201+21372\_100RB#0+75RB#0



Date: 24.AUG.2020 23:06:03

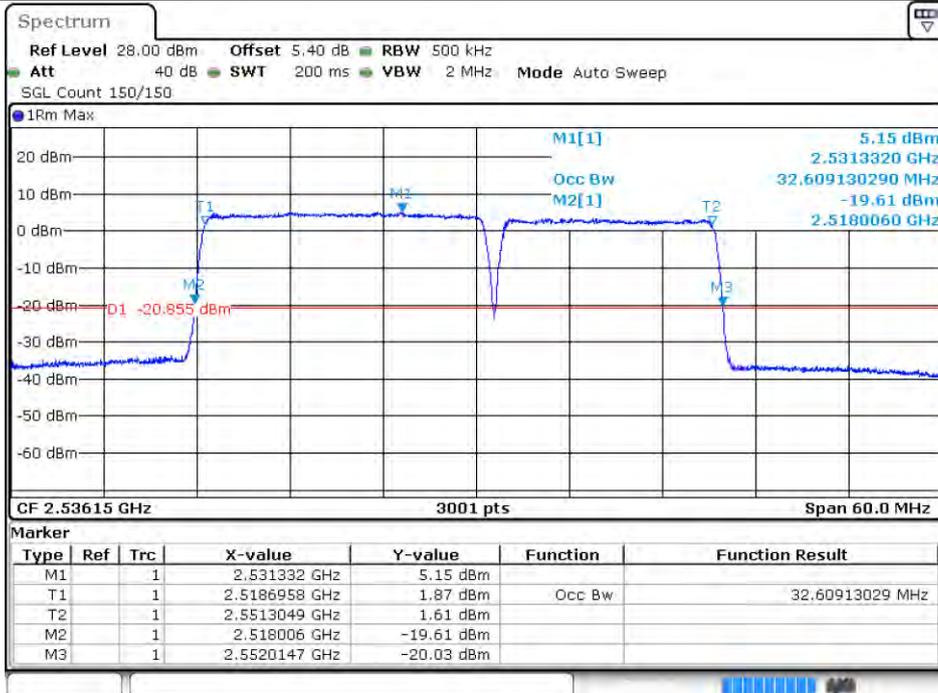


CA\_7C\_20+15\_64QAM\_20850+21021\_100RB#0+75RB#0



Date: 24.AUG.2020 23:02:20

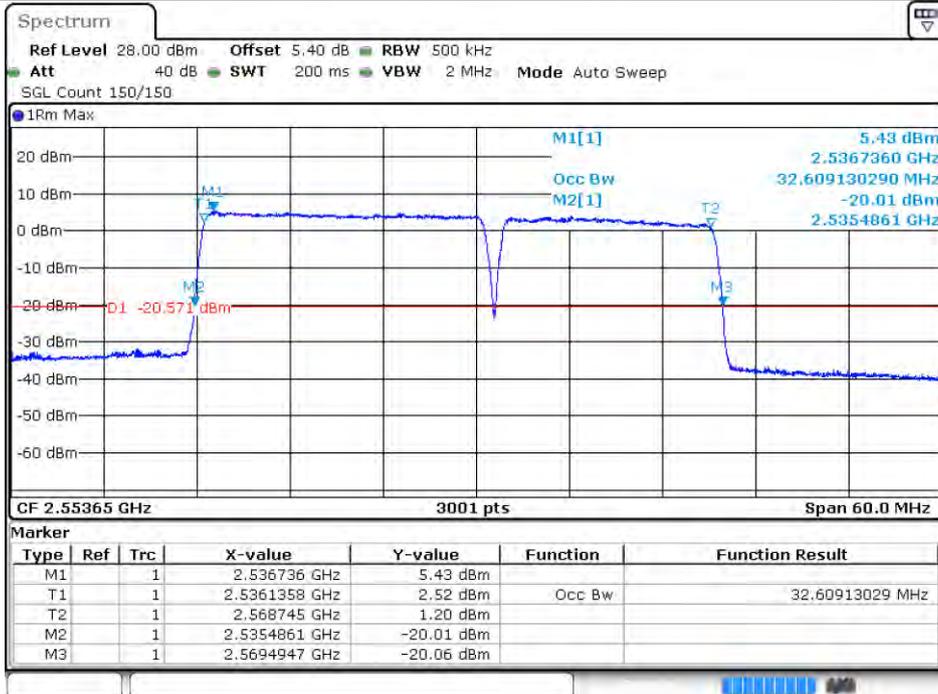
CA\_7C\_20+15\_64QAM\_21026+21197\_100RB#0+75RB#0



Date: 24.AUG.2020 23:04:31

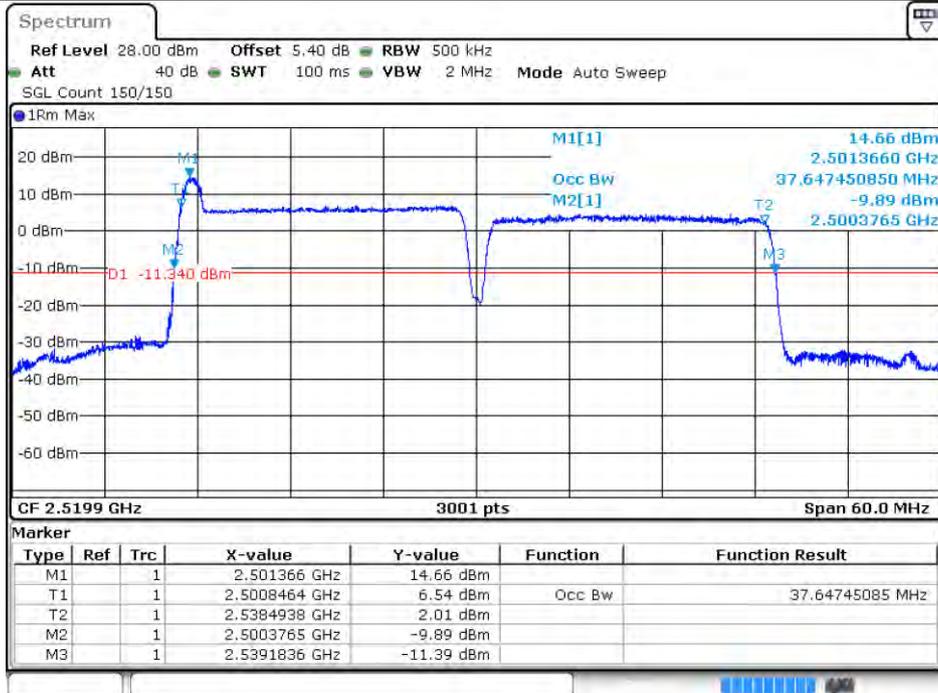


CA\_7C\_20+15\_64QAM\_21201+21372\_100RB#0+75RB#0



Date: 24.AUG.2020 23:06:41

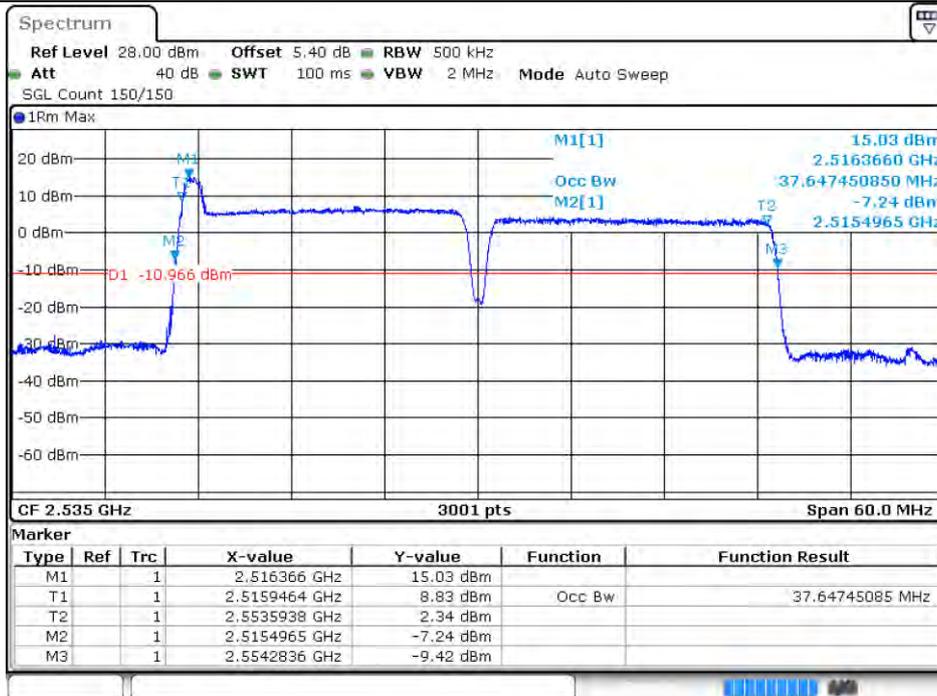
CA\_7C\_20+20\_QPSK\_20850+21048\_100RB#0+100RB#0



Date: 24.AUG.2020 23:07:36

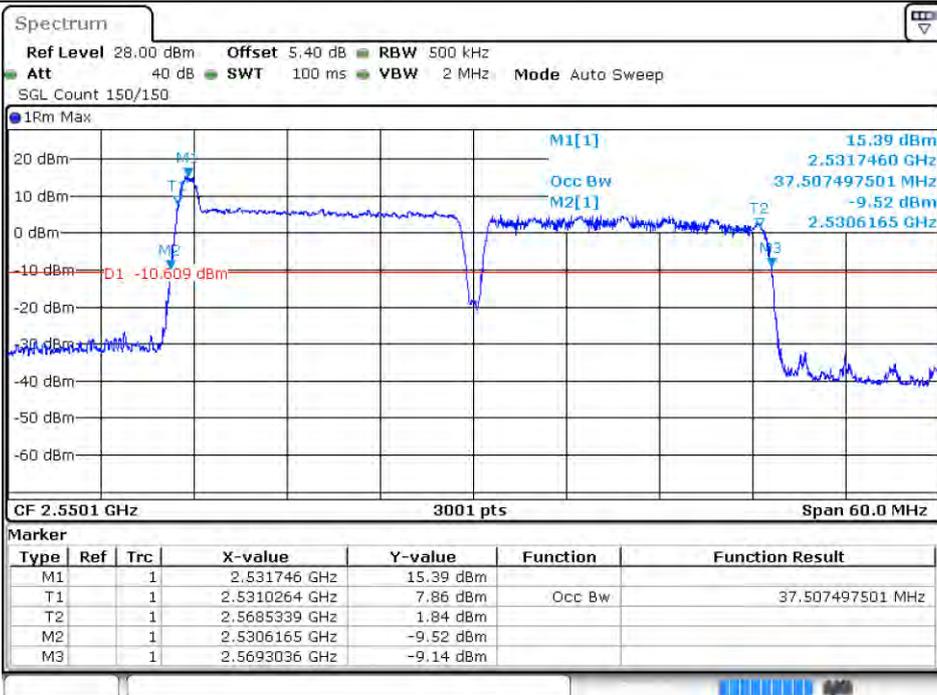


CA\_7C\_20+20\_QPSK\_21001+21199\_100RB#0+100RB#0



Date: 24.AUG.2020 23:08:56

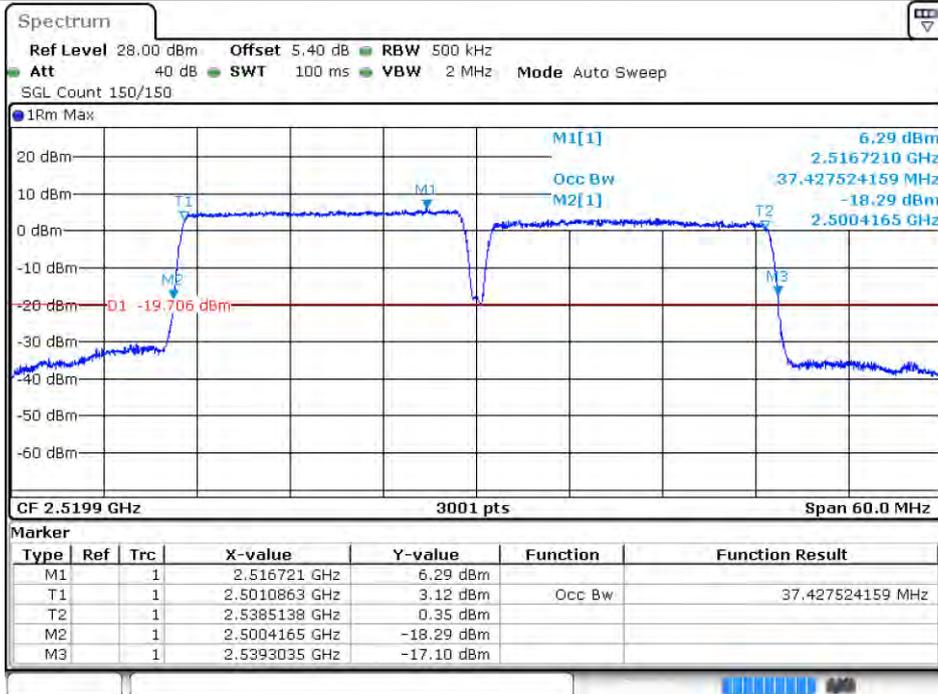
CA\_7C\_20+20\_QPSK\_21152+21350\_100RB#0+100RB#0



Date: 24.AUG.2020 23:10:16

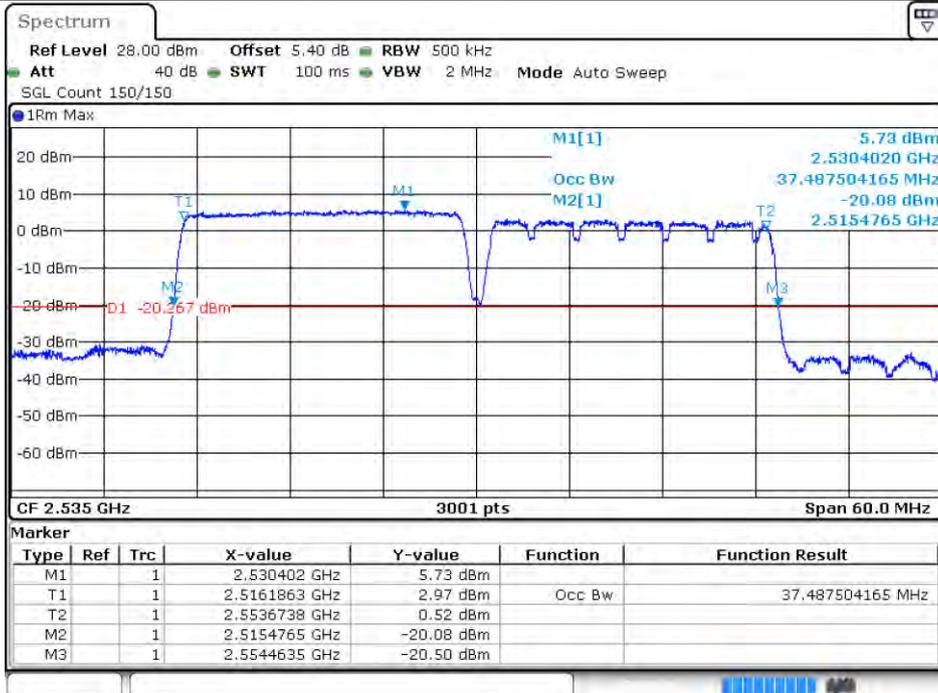


CA\_7C\_20+20\_16QAM\_20850+21048\_100RB#0+100RB#0



Date: 24.AUG.2020 23:07:57

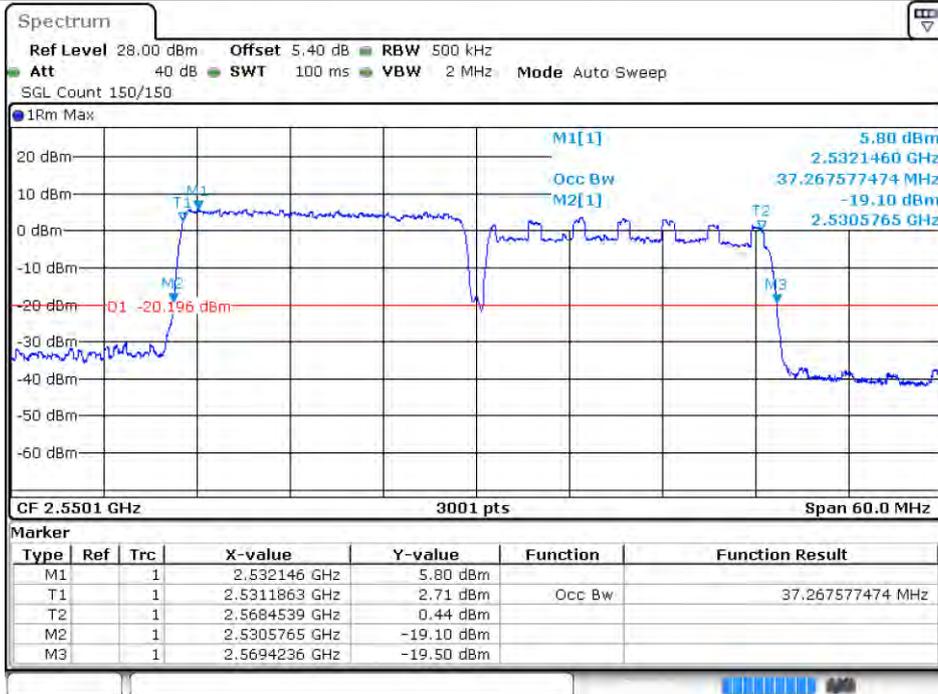
CA\_7C\_20+20\_16QAM\_21001+21199\_100RB#0+100RB#0



Date: 24.AUG.2020 23:09:17

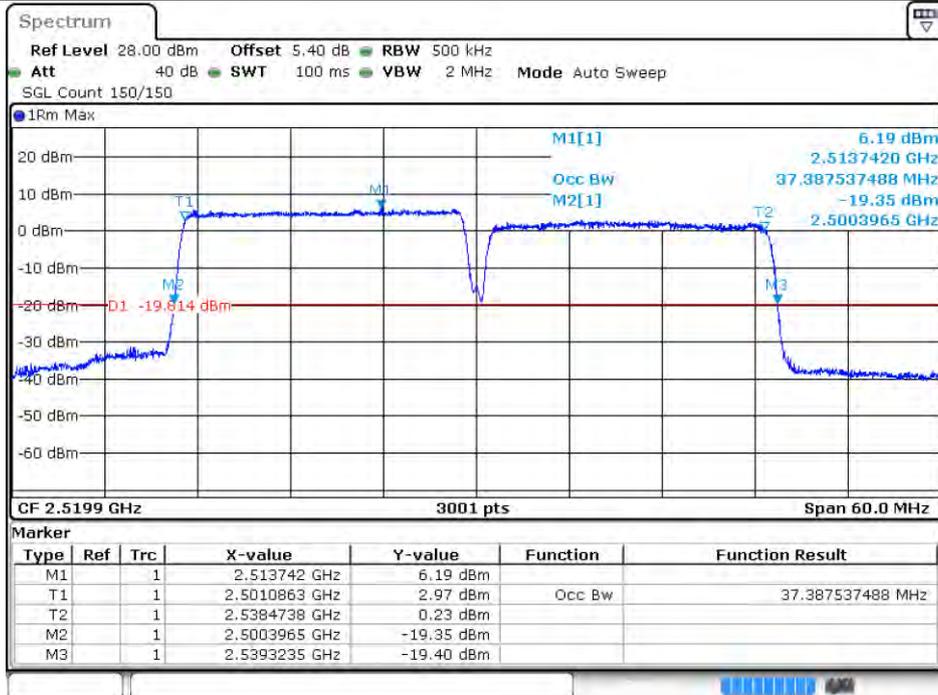


**CA\_7C\_20+20\_16QAM\_21152+21350\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:10:38

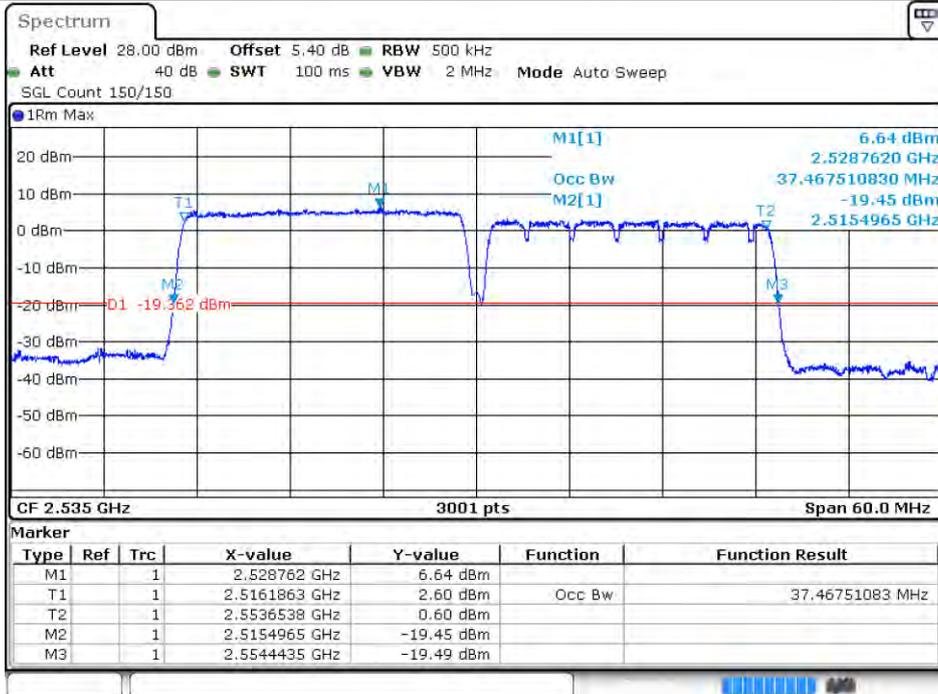
**CA\_7C\_20+20\_64QAM\_20850+21048\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:08:19

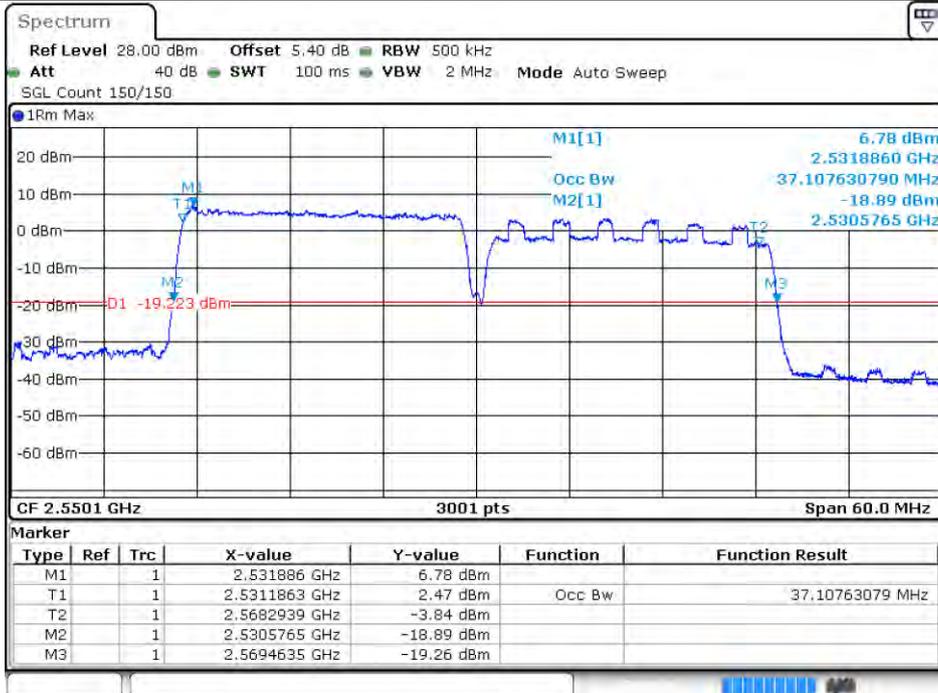


CA\_7C\_20+20\_64QAM\_21001+21199\_100RB#0+100RB#0



Date: 24.AUG.2020 23:09:39

CA\_7C\_20+20\_64QAM\_21152+21350\_100RB#0+100RB#0



Date: 24.AUG.2020 23:10:59



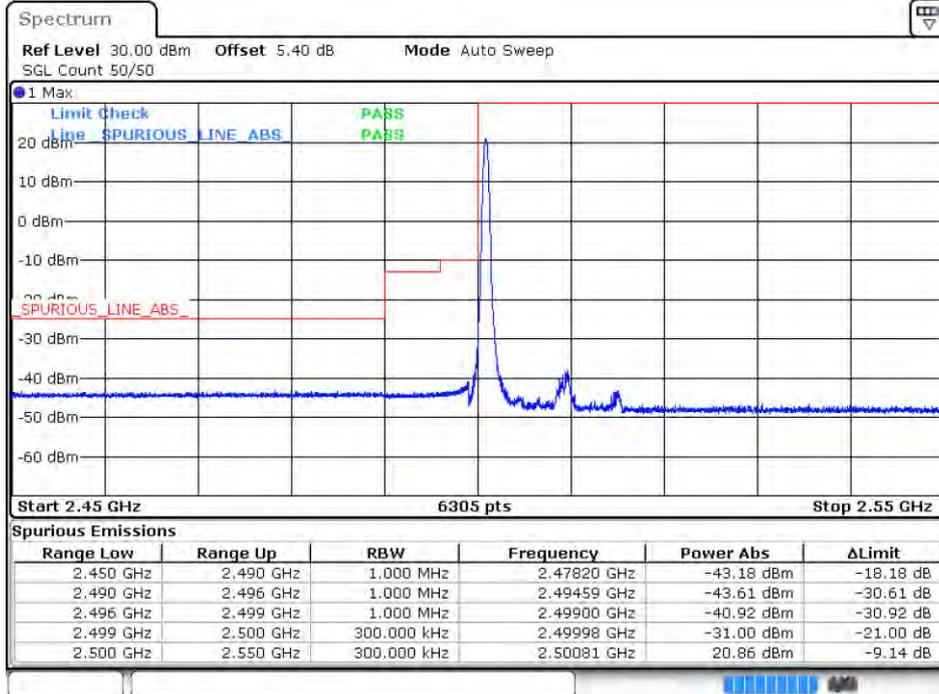


## 5 Band Edges Compliance

### 5.1 For LTE

#### 5.1.1 Test Band = LTE Band CA\_7C

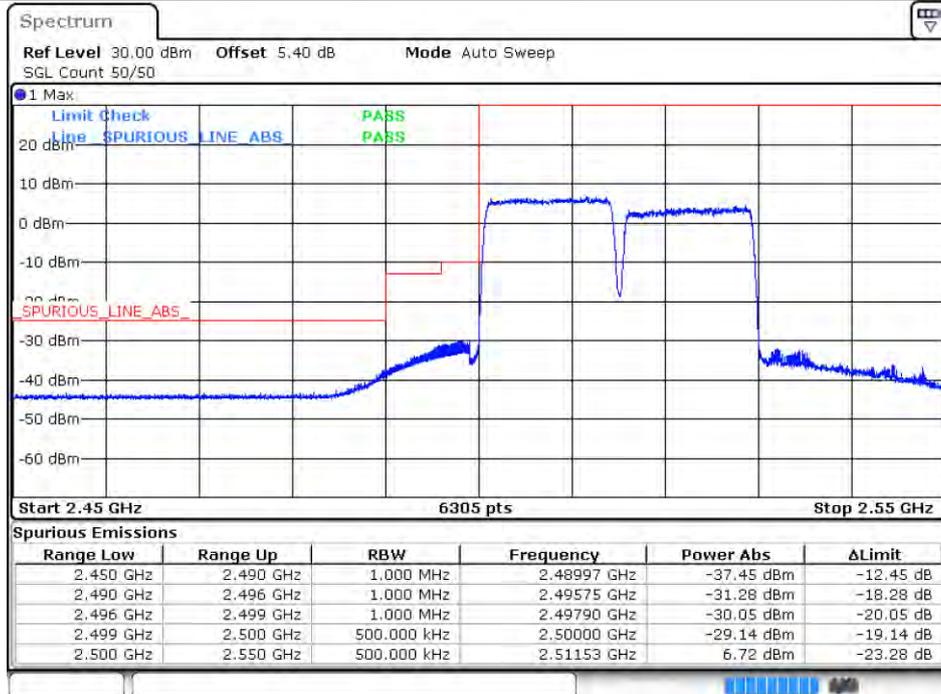
CA\_7C\_75RB+75RB\_QPSK\_20825+20975\_1RB#0+0RB#0



Date: 24.AUG.2020 23:12:00

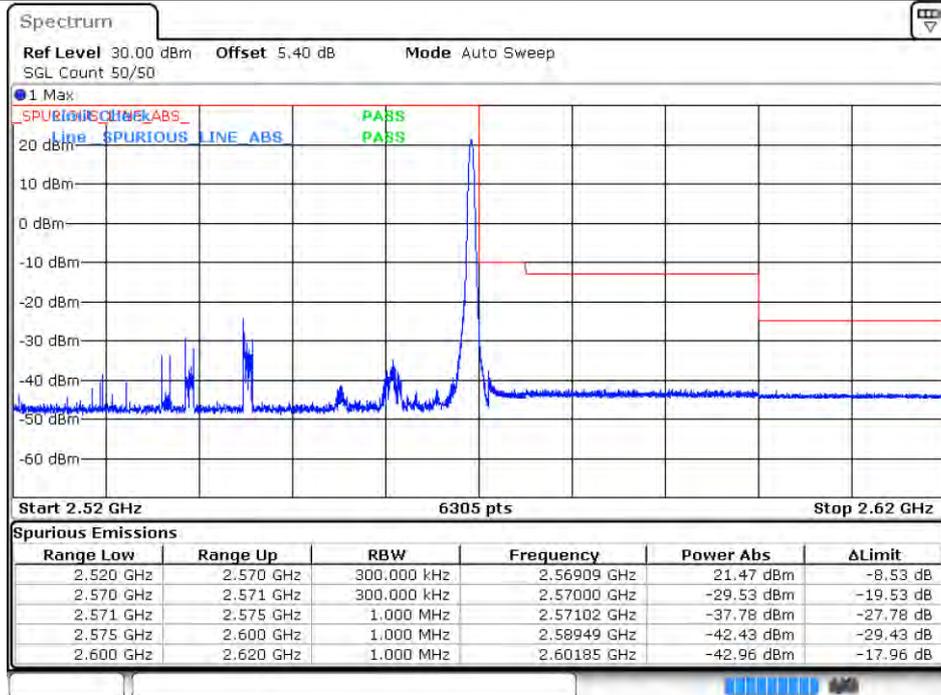


**CA\_7C\_75RB+75RB\_QPSK\_20825+20975\_75RB#0+75RB#0**



Date: 24.AUG.2020 23:13:46

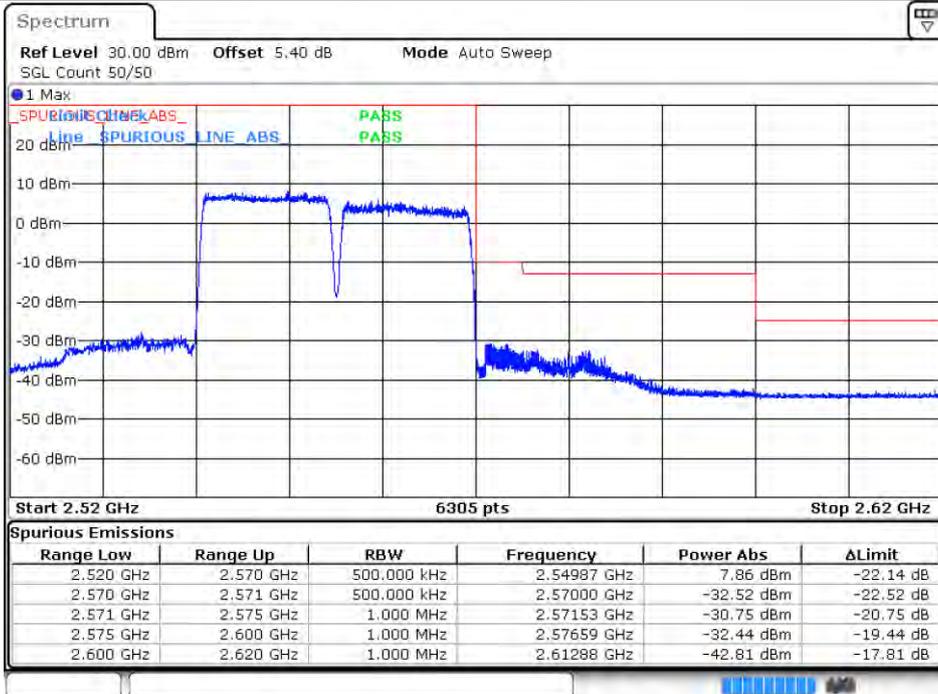
**CA\_7C\_75RB+75RB\_QPSK\_21225+21375\_0RB#0+1RB#74**



Date: 24.AUG.2020 23:27:49

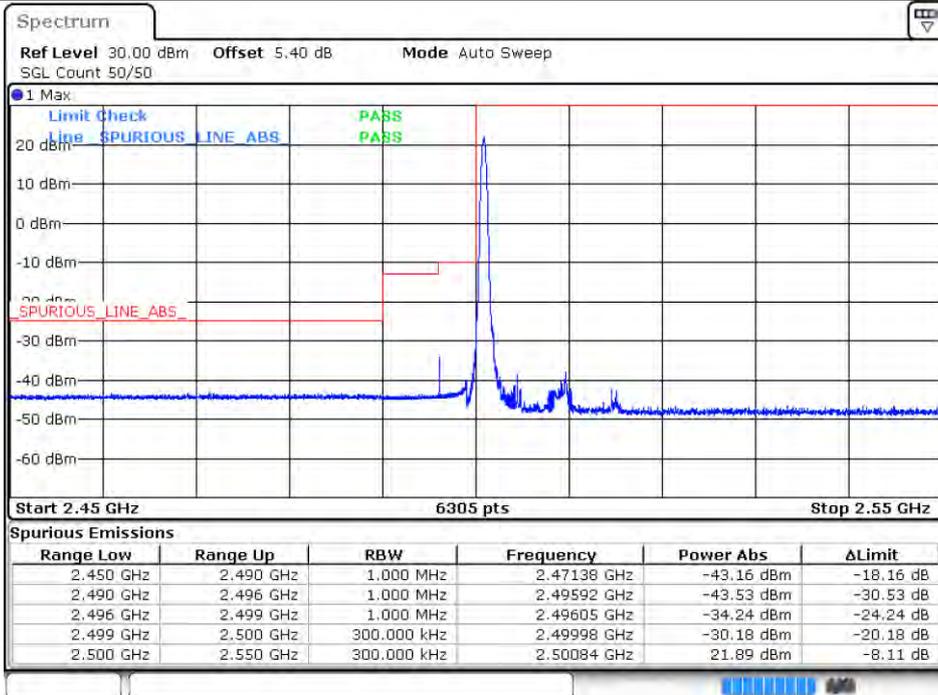


**CA\_7C\_75RB+75RB\_QPSK\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 23:28:44

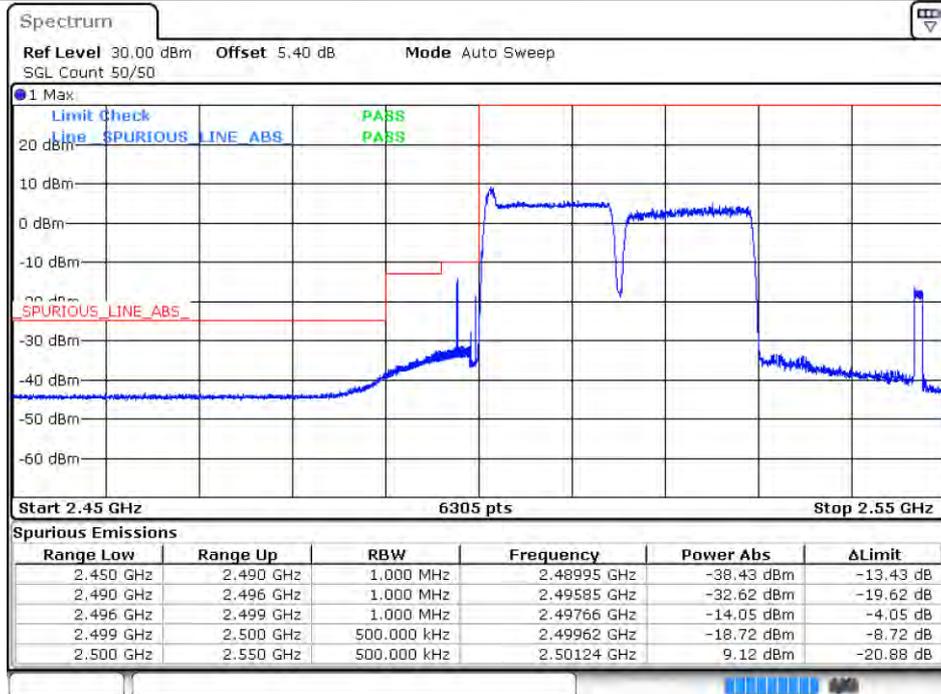
**CA\_7C\_75RB+75RB\_16QAM\_20825+20975\_1RB#0+0RB#0**



Date: 24.AUG.2020 23:12:29

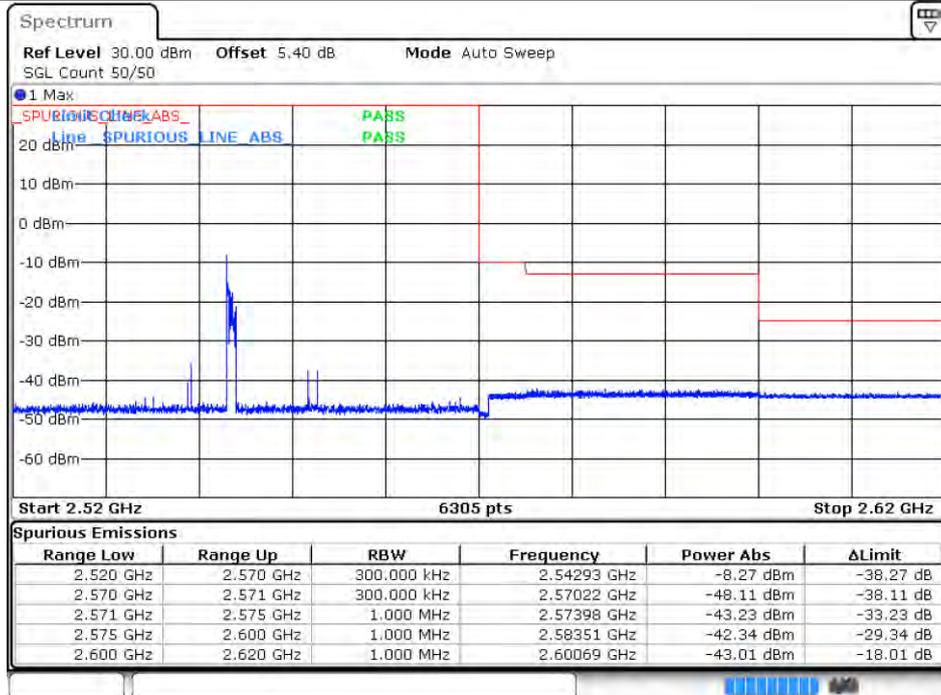


CA\_7C\_75RB+75RB\_16QAM\_20825+20975\_75RB#0+75RB#0



Date: 24.AUG.2020 23:14:15

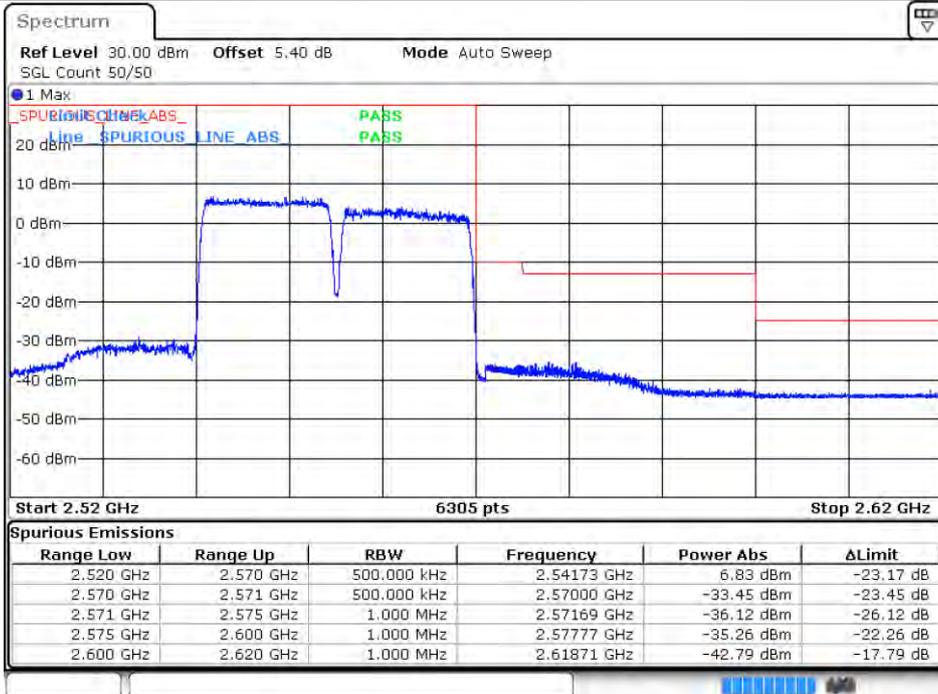
CA\_7C\_75RB+75RB\_16QAM\_21225+21375\_0RB#0+1RB#74



Date: 24.AUG.2020 23:28:05

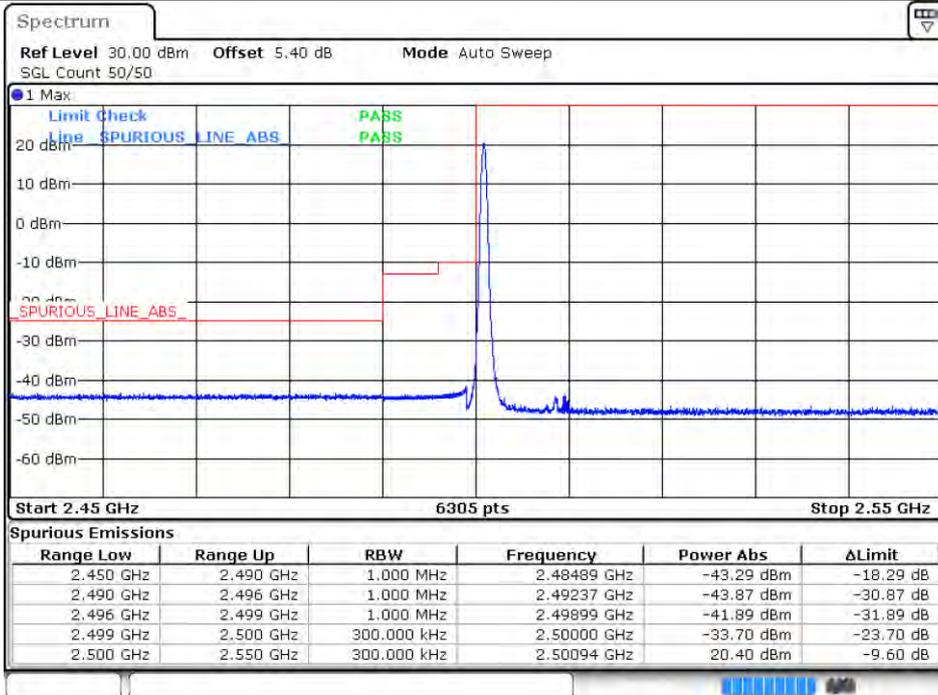


**CA\_7C\_75RB+75RB\_16QAM\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 23:29:00

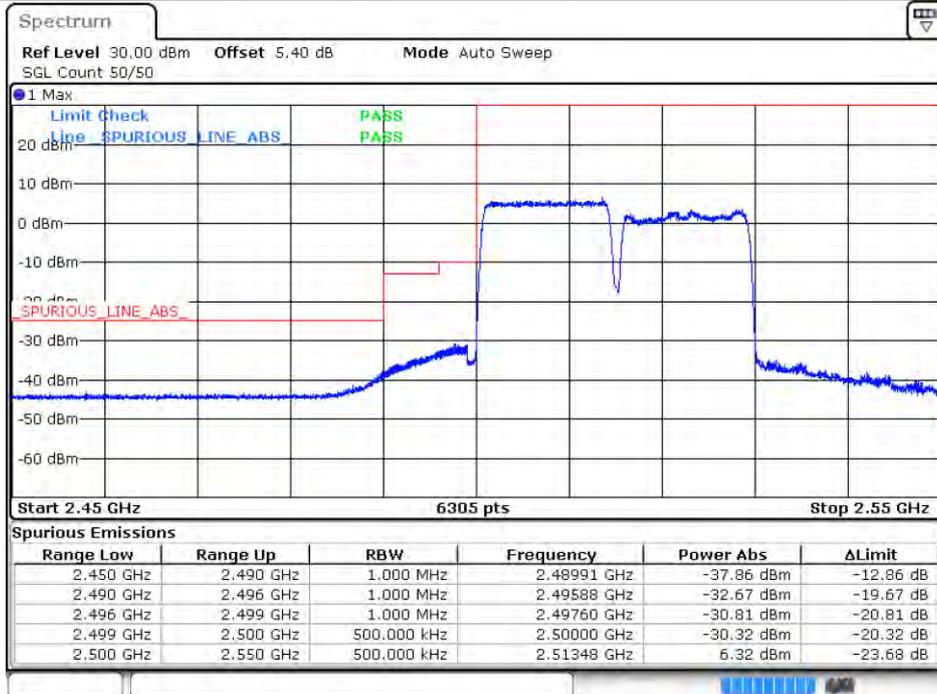
**CA\_7C\_75RB+75RB\_64QAM\_20825+20975\_1RB#0+0RB#0**



Date: 24.AUG.2020 23:12:57

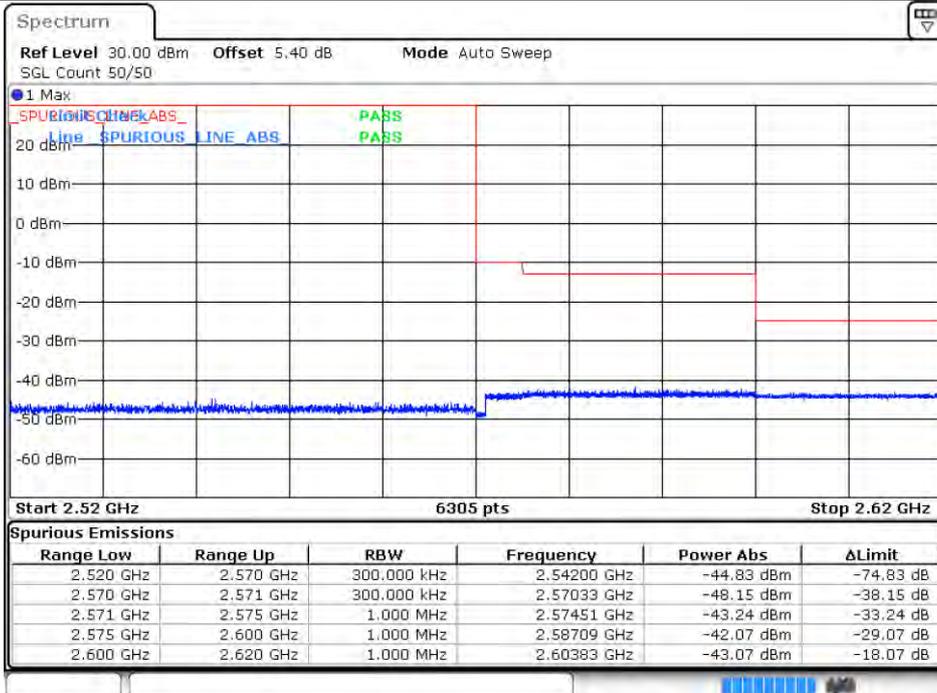


CA\_7C\_75RB+75RB\_64QAM\_20825+20975\_75RB#0+75RB#0



Date: 24.AUG.2020 23:14:43

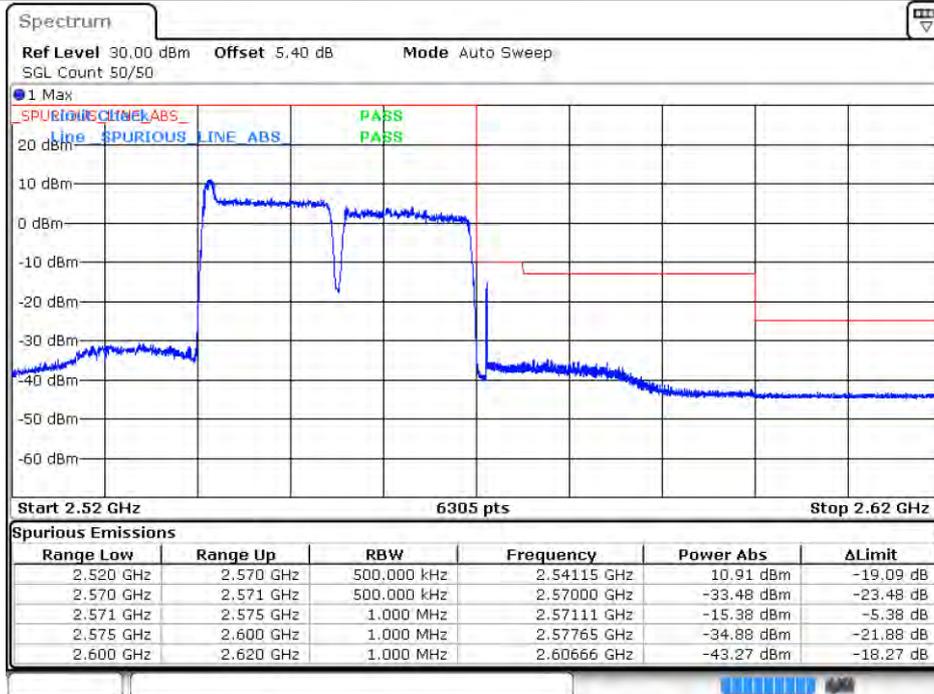
CA\_7C\_75RB+75RB\_64QAM\_21225+21375\_0RB#0+1RB#74



Date: 24.AUG.2020 23:28:20

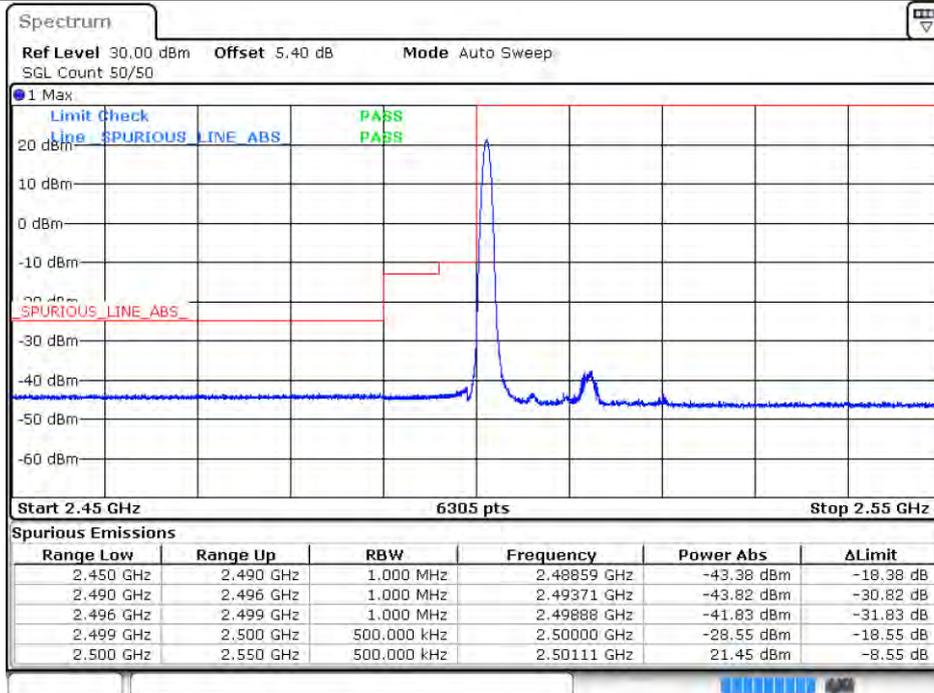


**CA\_7C\_75RB+75RB\_64QAM\_21225+21375\_75RB#0+75RB#0**



Date: 24.AUG.2020 23:29:15

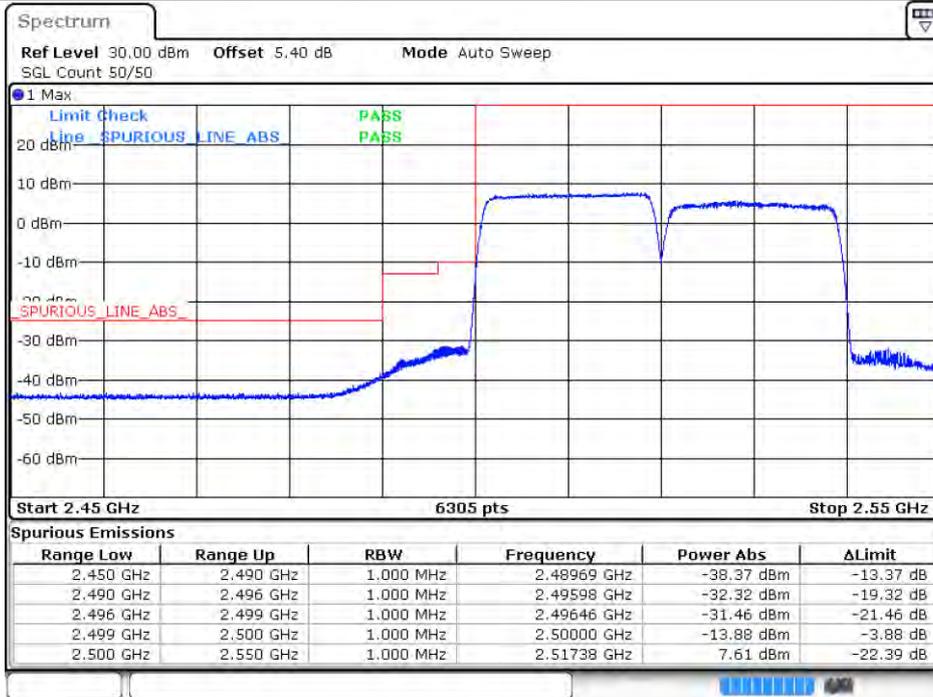
**CA\_7C\_100RB+100RB\_QPSK\_20850+21048\_1RB#0+0RB#0**



Date: 24.AUG.2020 23:30:02

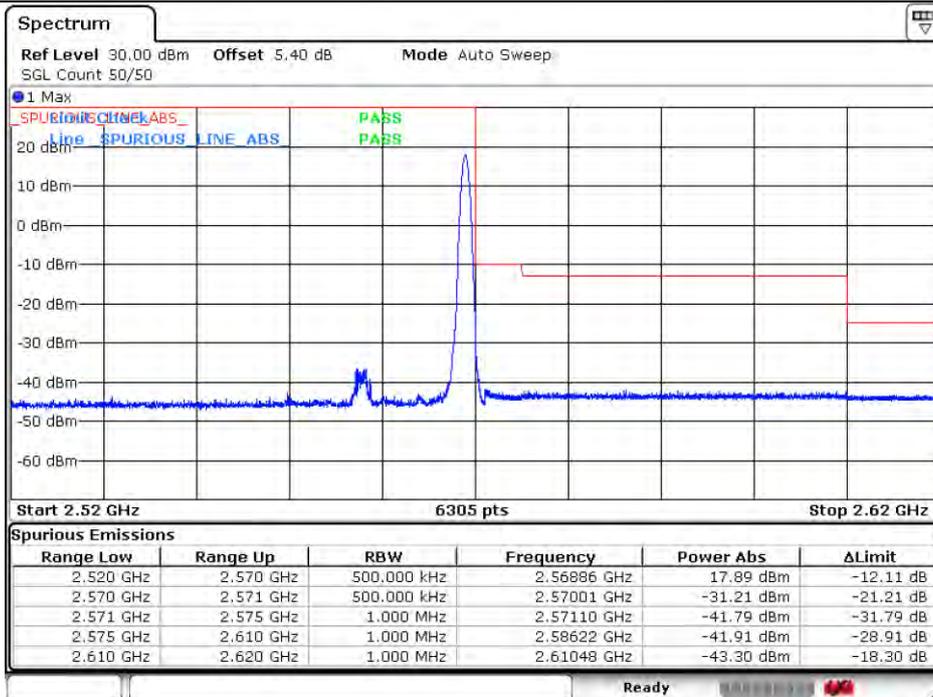


**CA\_7C\_100RB+100RB\_QPSK\_20850+21048\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:31:48

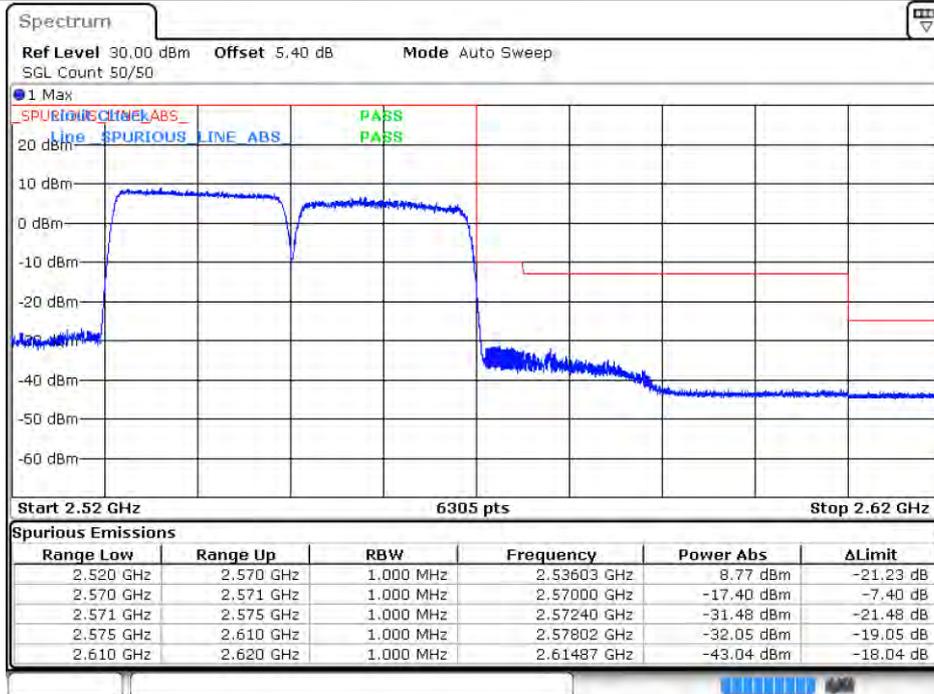
**CA\_7C\_100RB+100RB\_QPSK\_21152+21350\_0RB#0+1RB#99**



Date: 25.AUG.2020 09:43:27

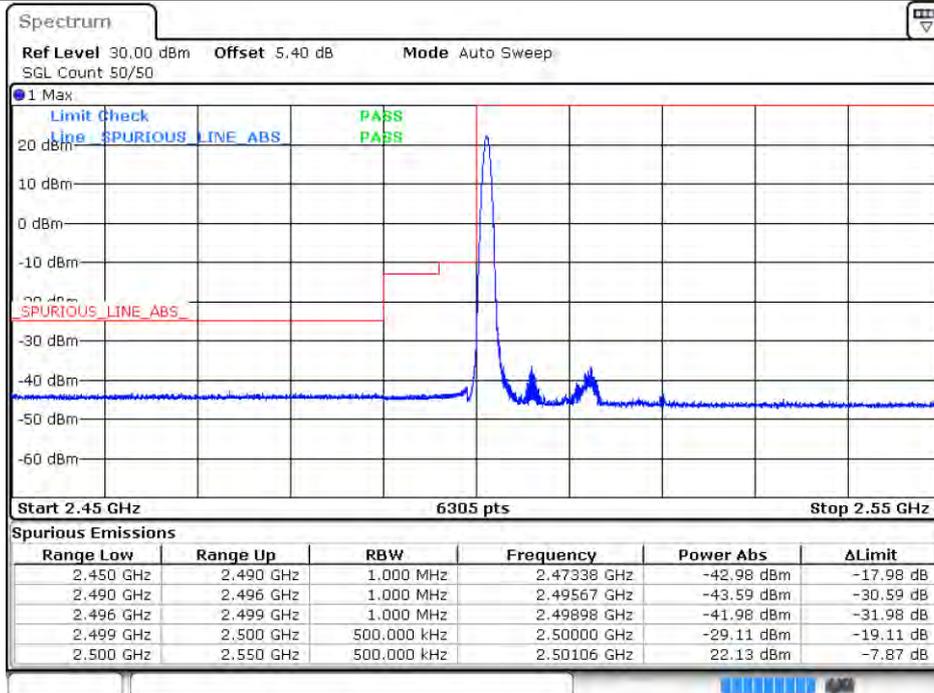


**CA\_7C\_100RB+100RB\_QPSK\_21152+21350\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:46:45

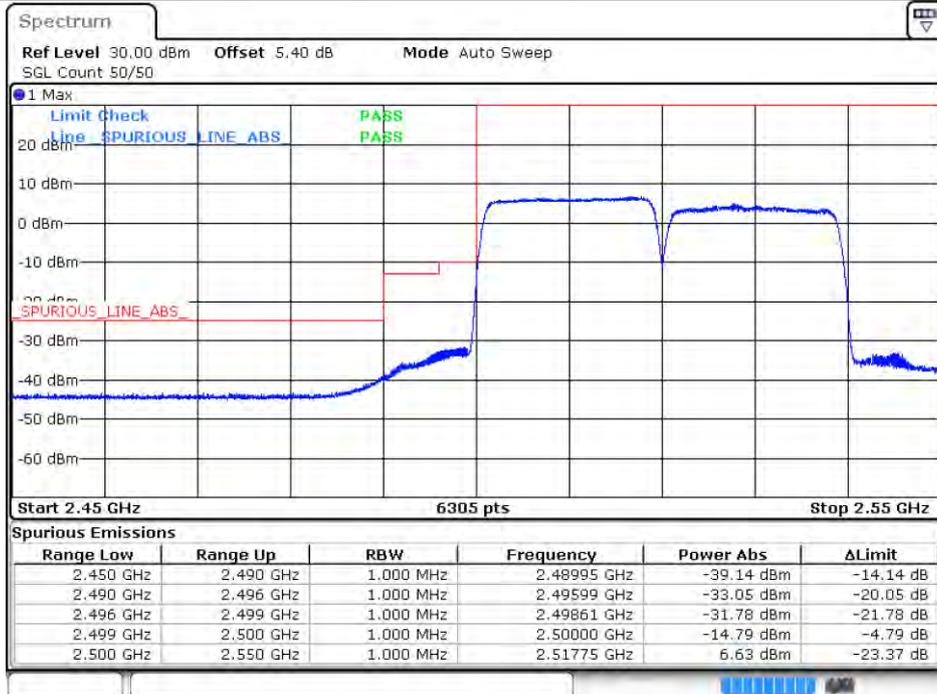
**CA\_7C\_100RB+100RB\_16QAM\_20850+21048\_1RB#0+0RB#0**



Date: 24.AUG.2020 23:30:30

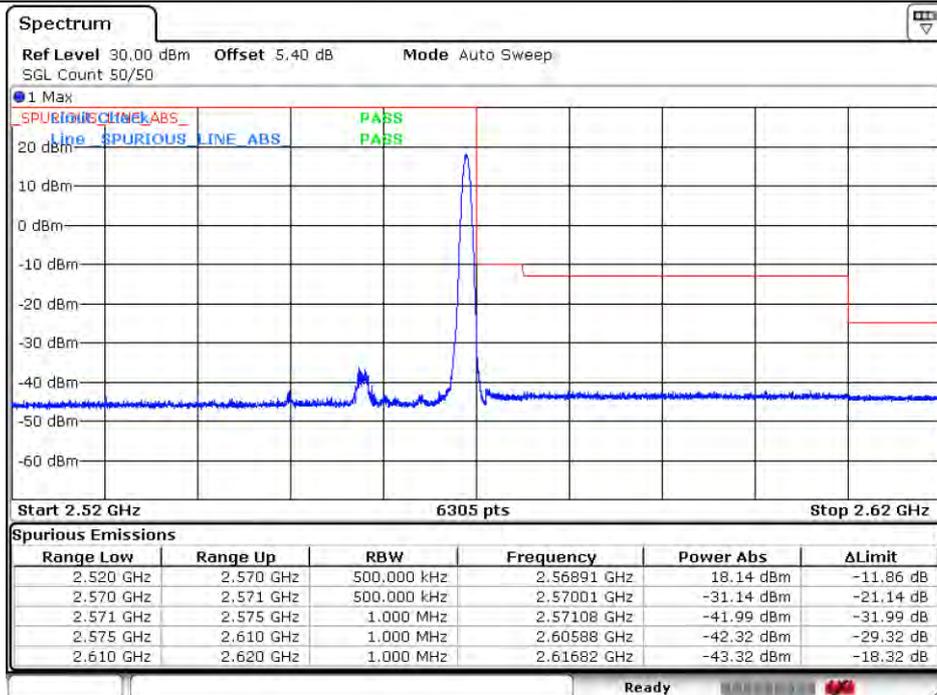


**CA\_7C\_100RB+100RB\_16QAM\_20850+21048\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:32:17

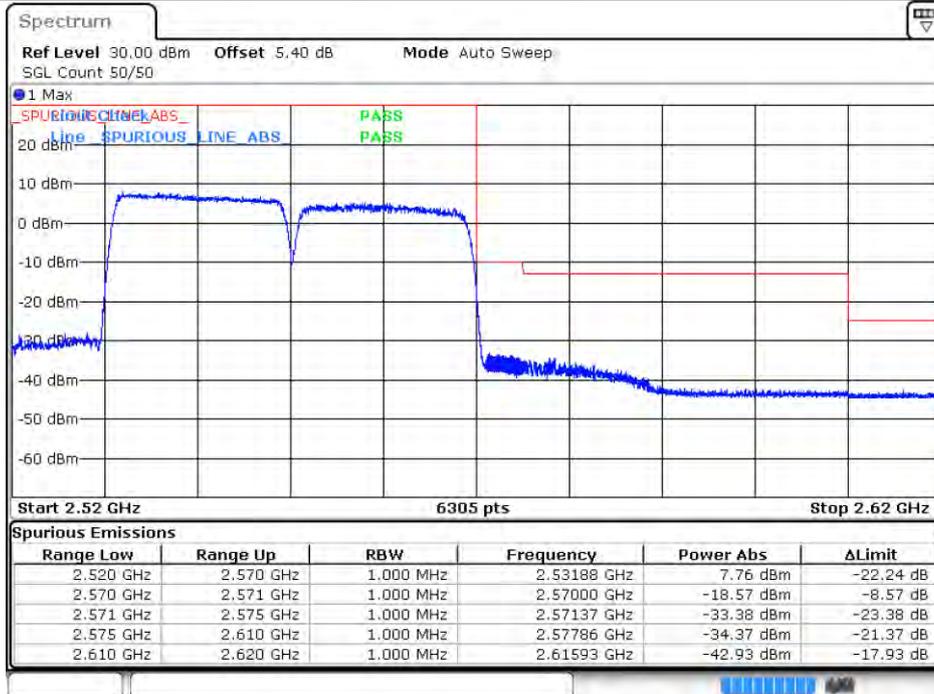
**CA\_7C\_100RB+100RB\_16QAM\_21152+21350\_0RB#0+1RB#99**



Date: 25.AUG.2020 09:43:52

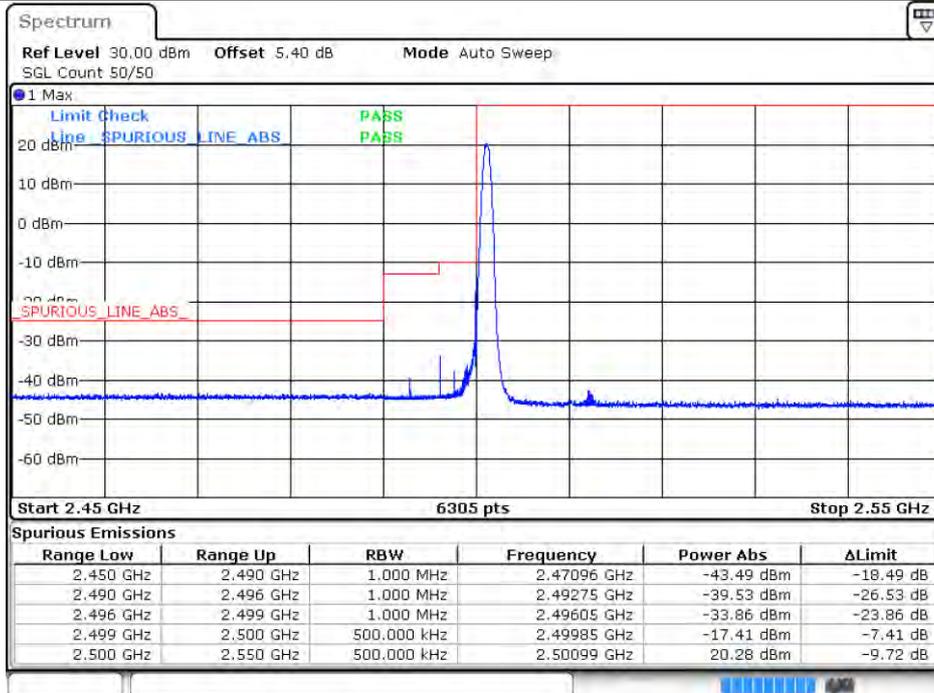


**CA\_7C\_100RB+100RB\_16QAM\_21152+21350\_100RB#0+100RB#0**



Date: 24.AUG.2020 23:47:00

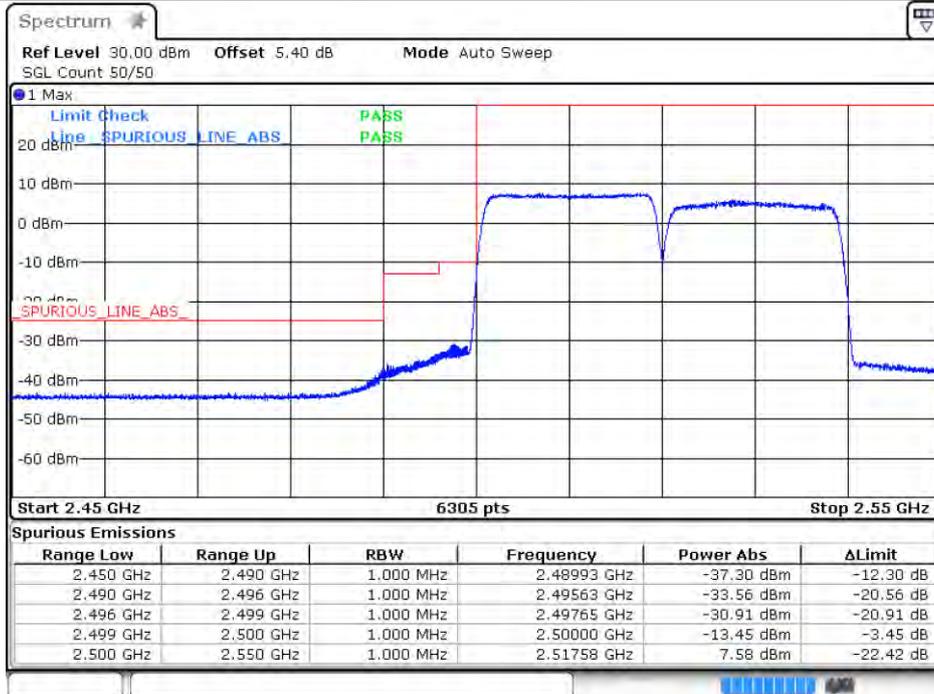
**CA\_7C\_100RB+100RB\_64QAM\_20850+21048\_1RB#0+0RB#0**



Date: 24.AUG.2020 23:30:59

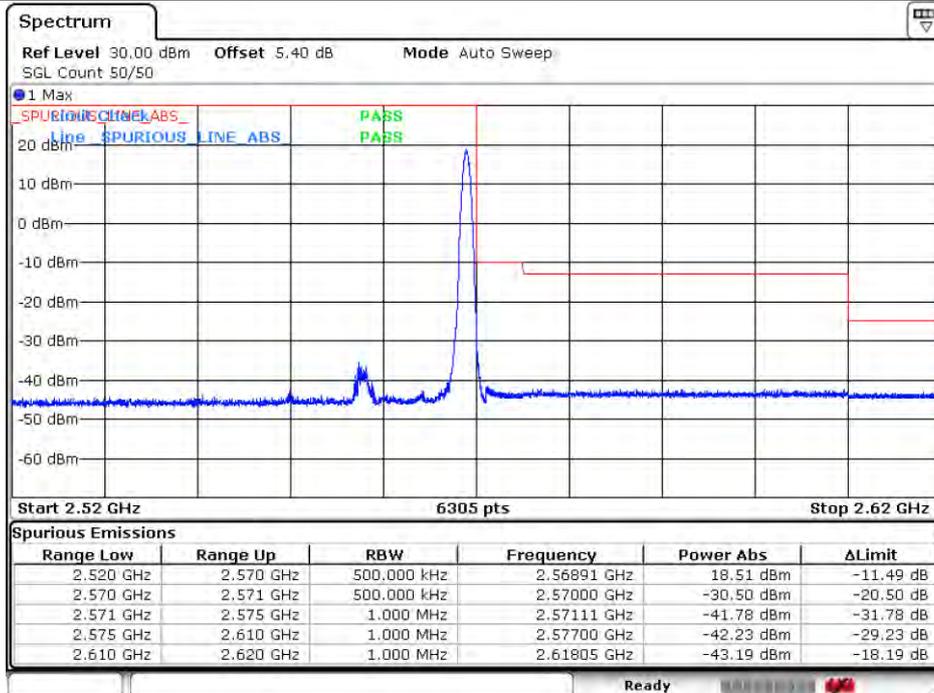


**CA\_7C\_100RB+100RB\_64QAM\_20850+21048\_100RB#0+100RB#0**



Date: 25.AUG.2020 15:09:07

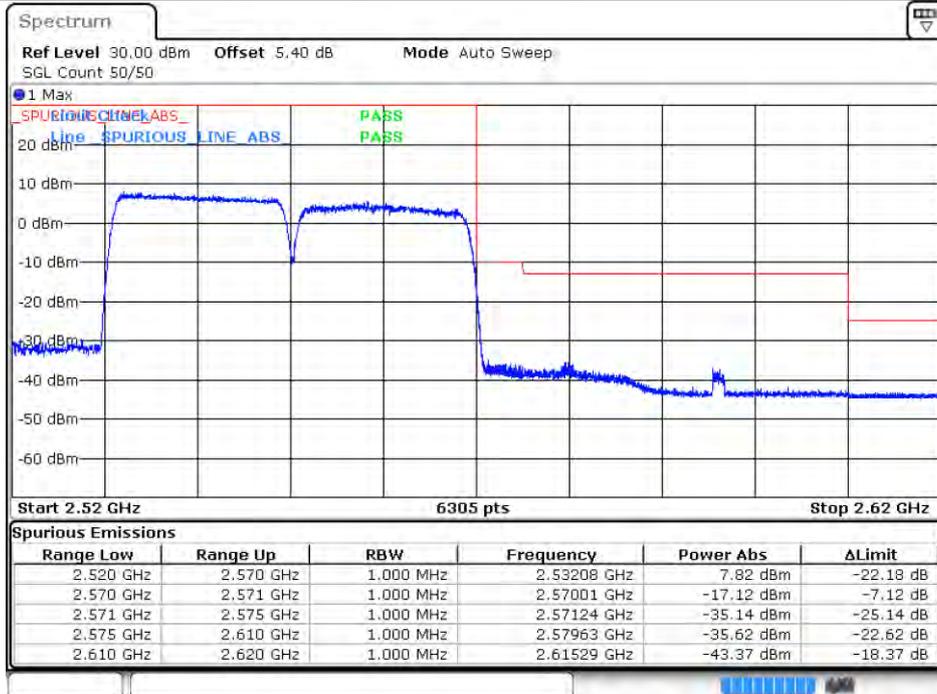
**CA\_7C\_100RB+100RB\_64QAM\_21152+21350\_0RB#0+1RB#99**



Date: 25.AUG.2020 09:42:34



CA\_7C\_100RB+100RB\_64QAM\_21152+21350\_100RB#0+100RB#0



Date: 24.AUG.2020 23:47:15



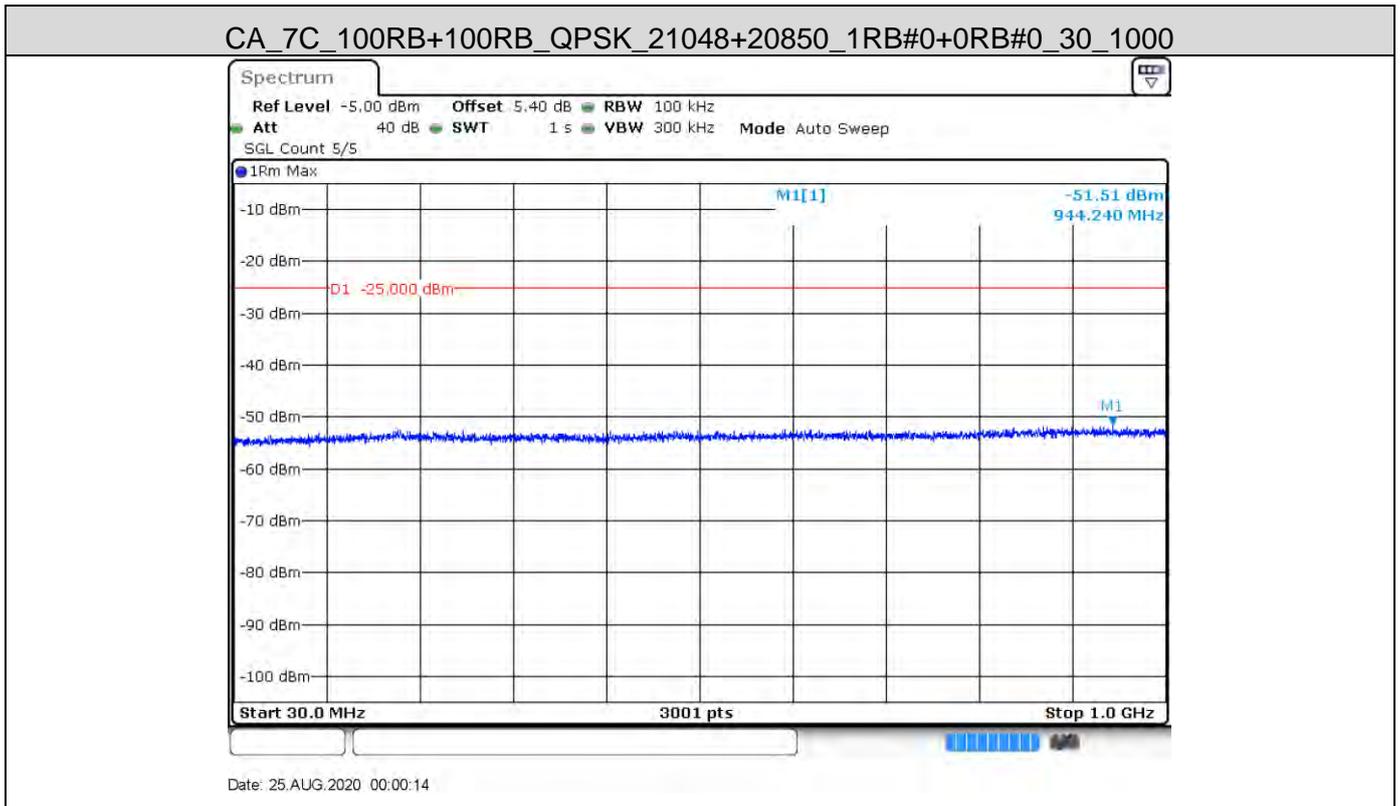
## 6 Spurious Emission at Antenna Terminal

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

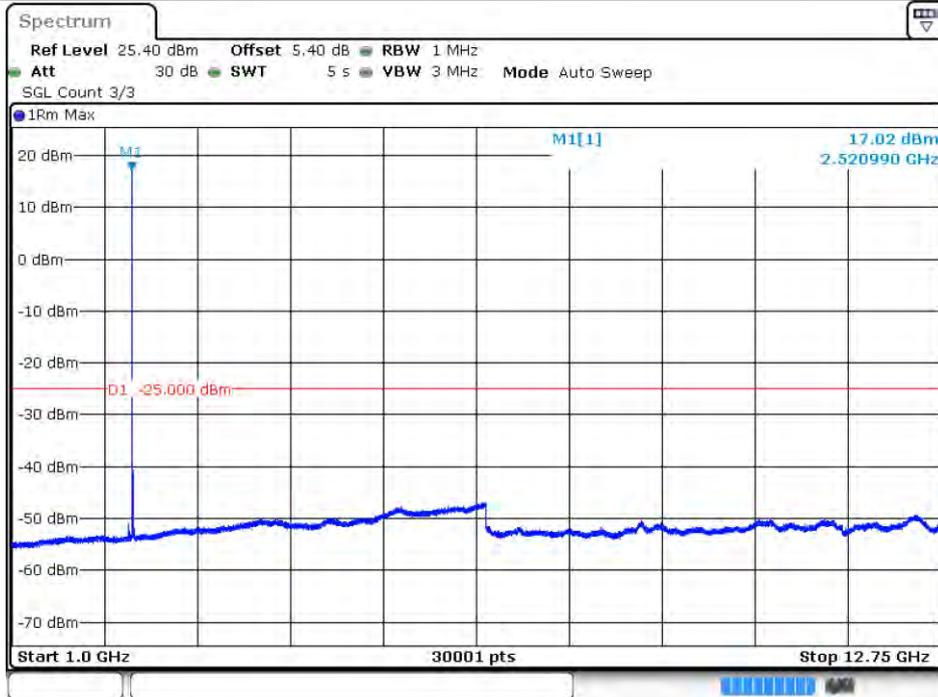
### 6.1 For LTE

#### 6.1.1 Test Band = LTE Band CA\_7C



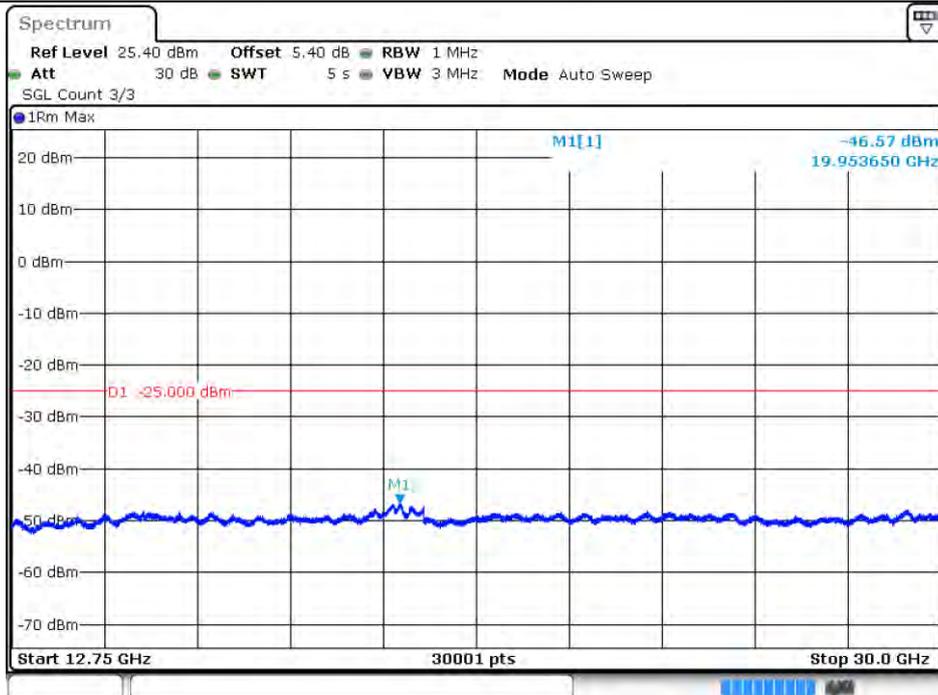


**CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_1RB#0+0RB#0\_1000\_12750**



Date: 25.AUG.2020 15:53:42

**CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_1RB#0+0RB#0\_12750\_30000**

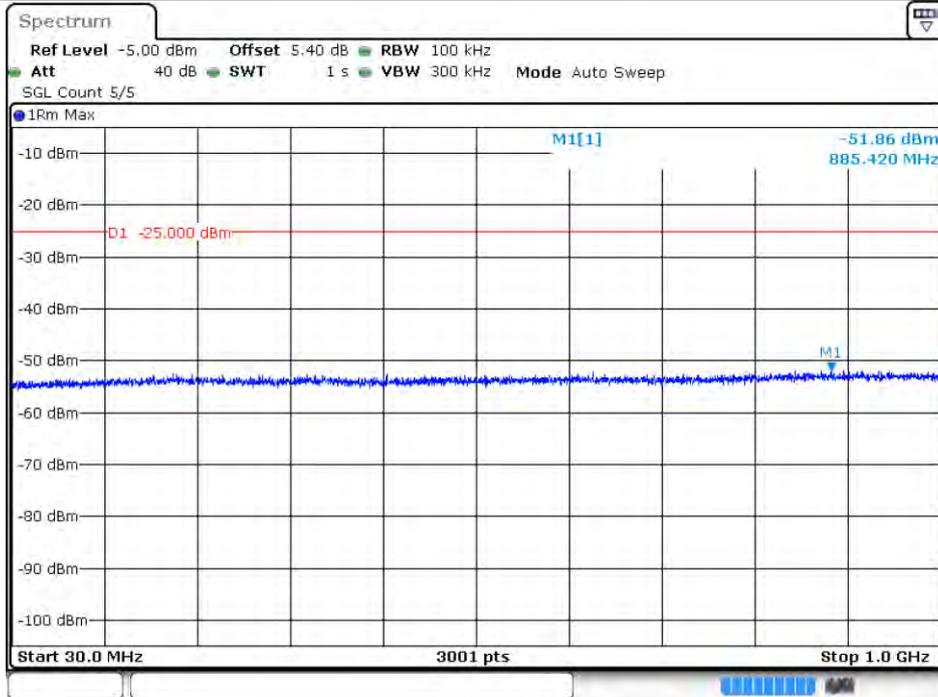


Date: 25.AUG.2020 15:48:02



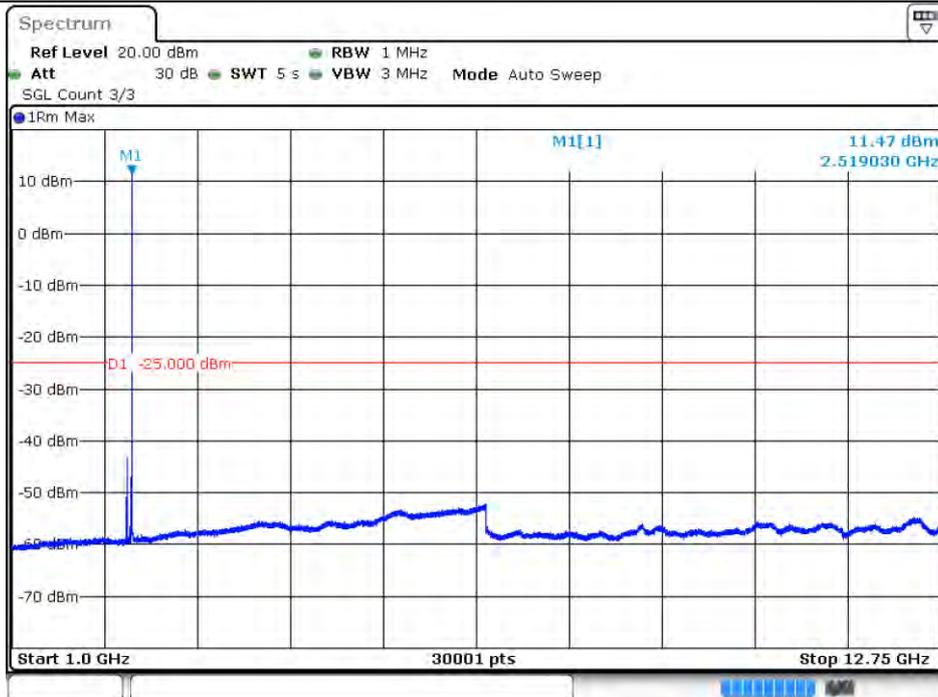


CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_0RB#0+1RB#99\_30\_1000



Date: 25.AUG.2020 00:00:20

CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_0RB#0+1RB#99\_1000\_12750

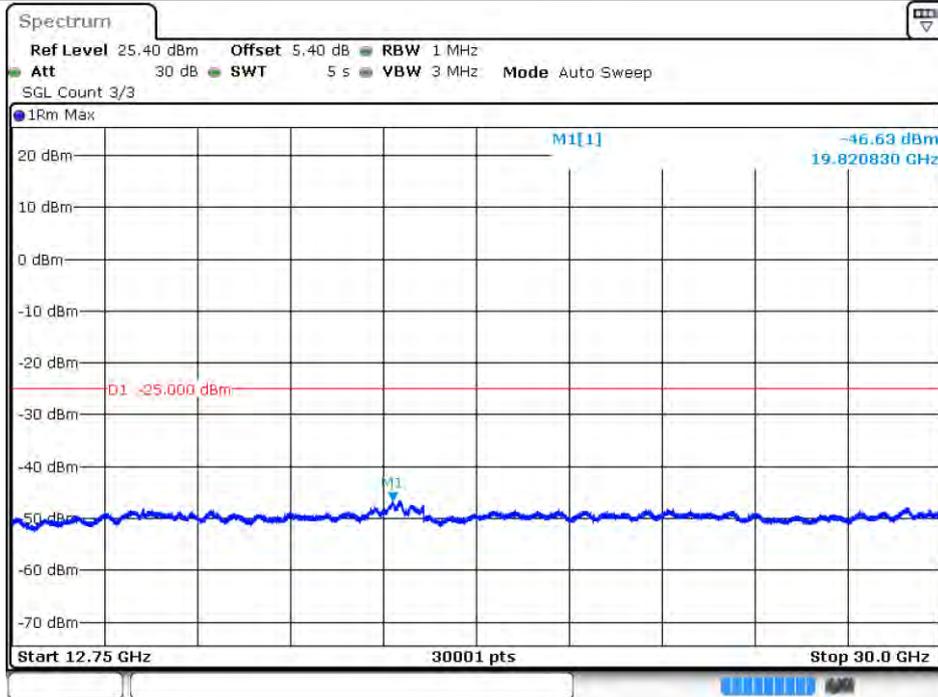


Date: 25.AUG.2020 15:43:33



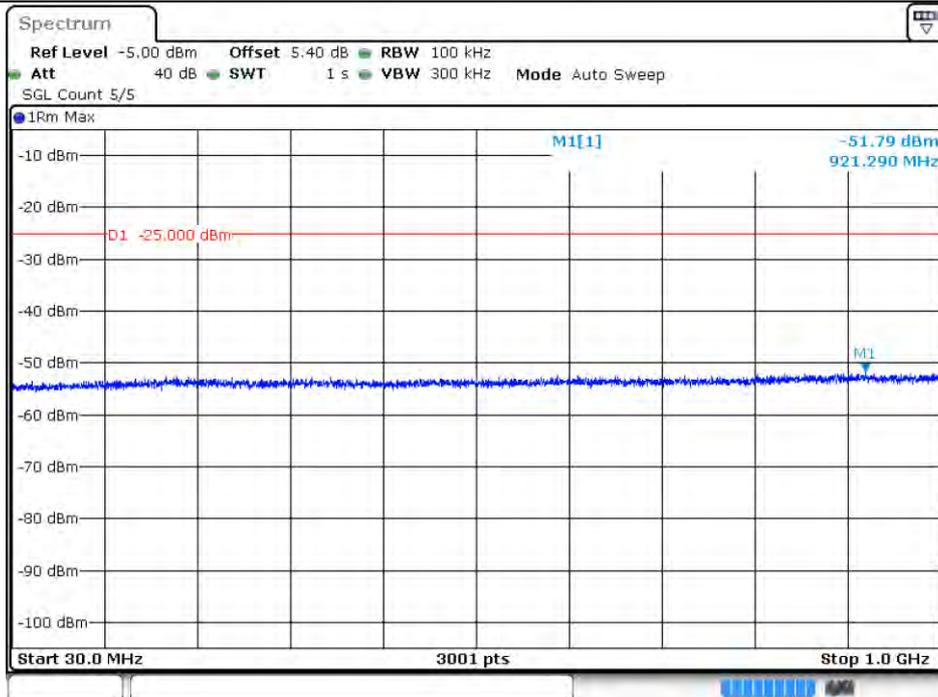


CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_0RB#0+1RB#99\_12750\_30000



Date: 25.AUG.2020 15:48:19

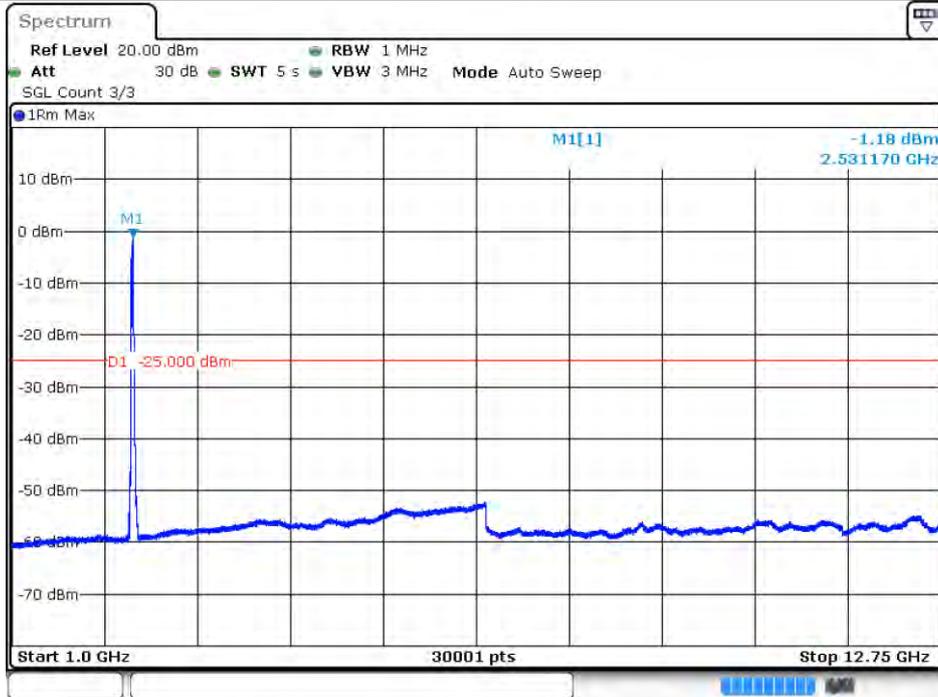
CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_100RB#0+100RB#0\_30\_1000



Date: 25.AUG.2020 00:00:26

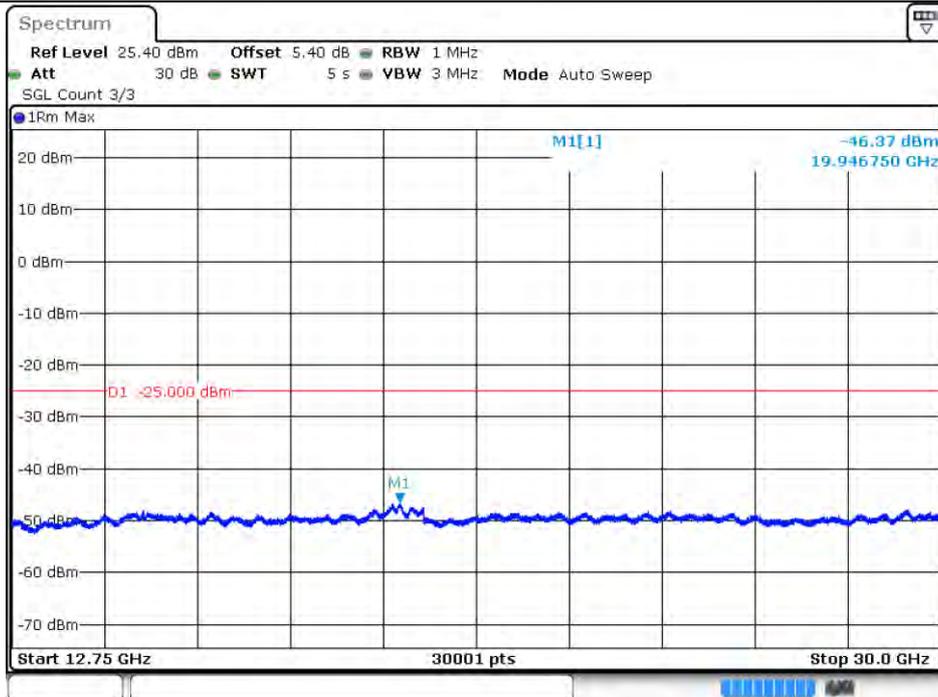


**CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_100RB#0+100RB#0\_1000\_12750**



Date: 25.AUG.2020 15:44:20

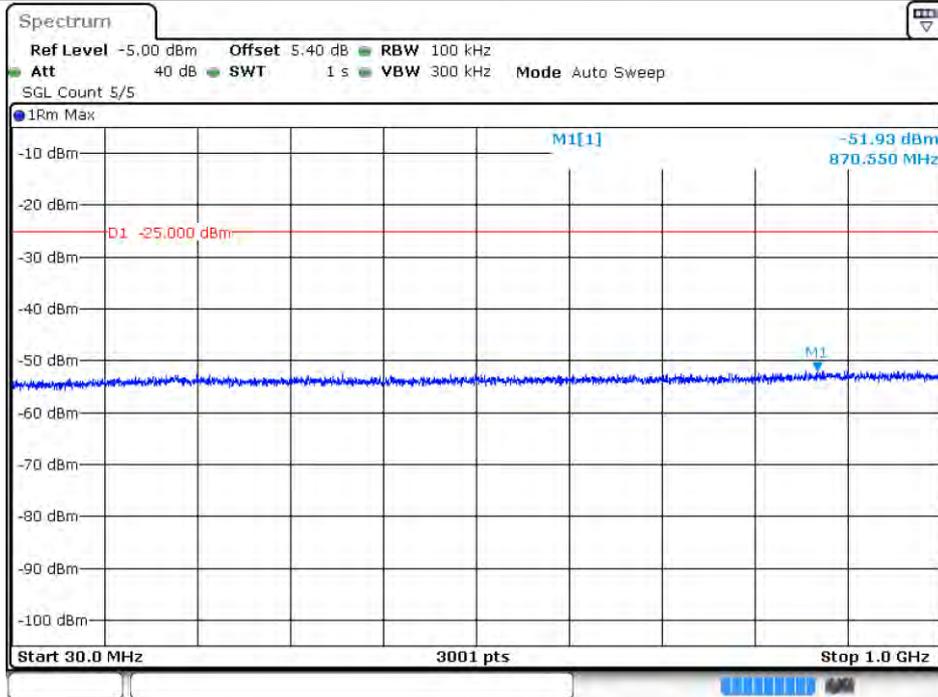
**CA\_7C\_100RB+100RB\_QPSK\_21048+20850\_100RB#0+100RB#0\_12750\_30000**



Date: 25.AUG.2020 15:48:36

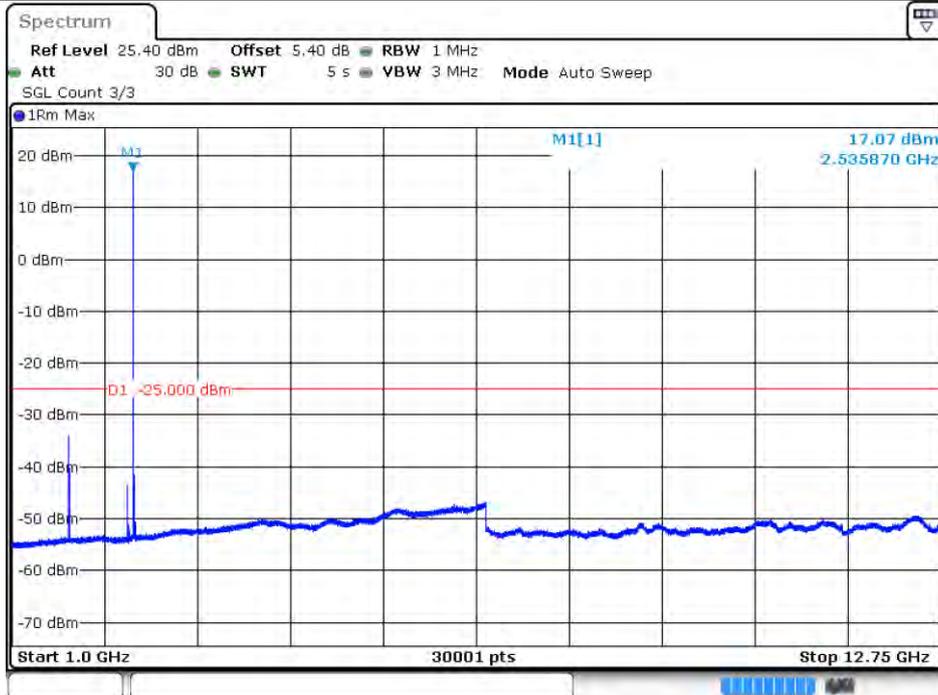


CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_1RB#0+0RB#0\_30\_1000



Date: 25.AUG.2020 00:04:13

CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_1RB#0+0RB#0\_1000\_12750

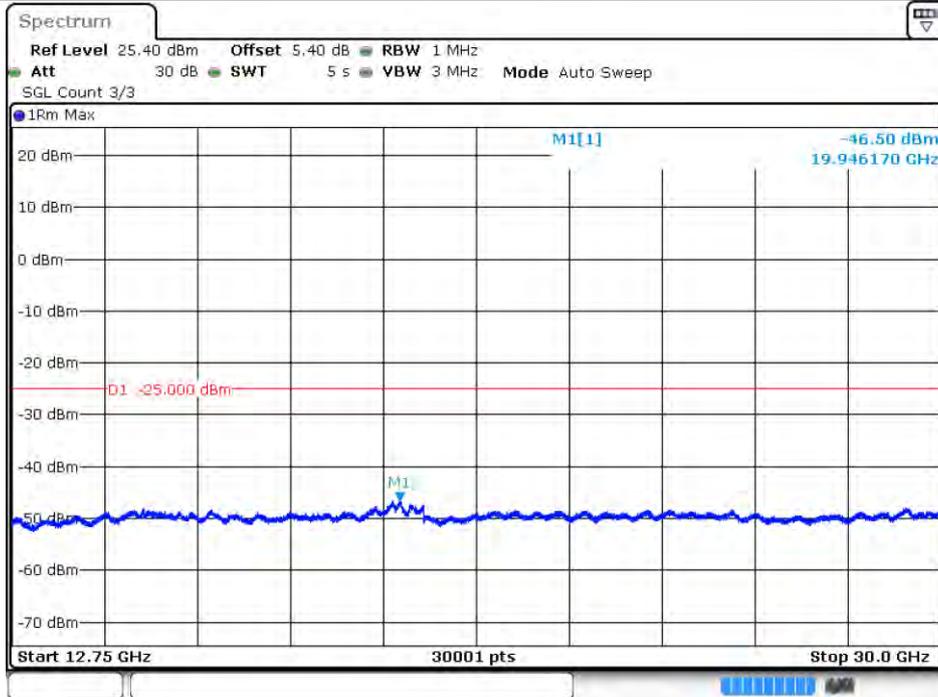


Date: 25.AUG.2020 15:44:44



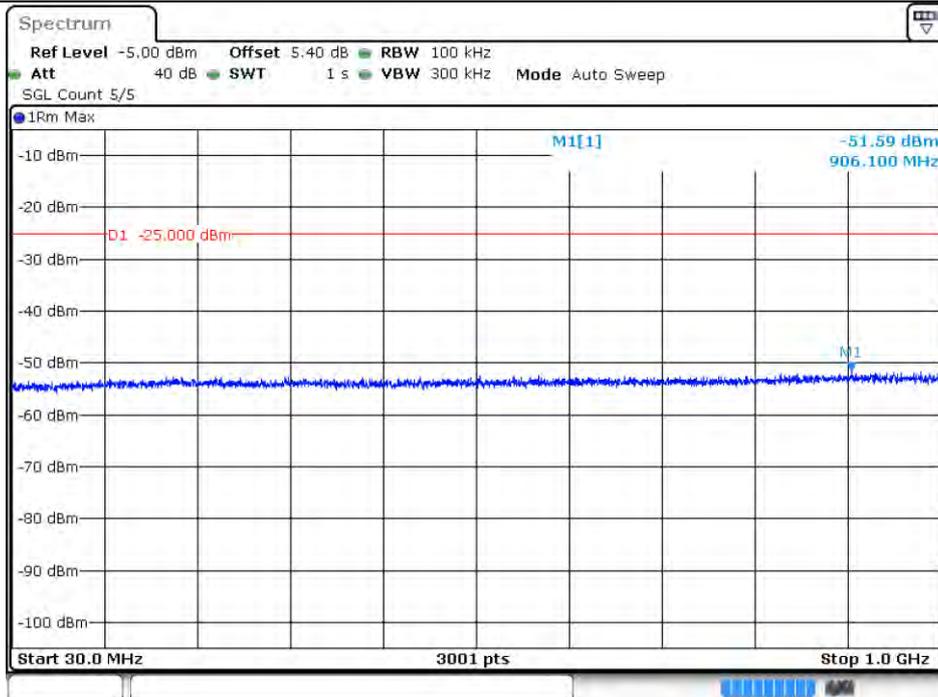


**CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_1RB#0+0RB#0\_12750\_30000**



Date: 25.AUG.2020 15:48:58

**CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_0RB#0+1RB#99\_30\_1000**

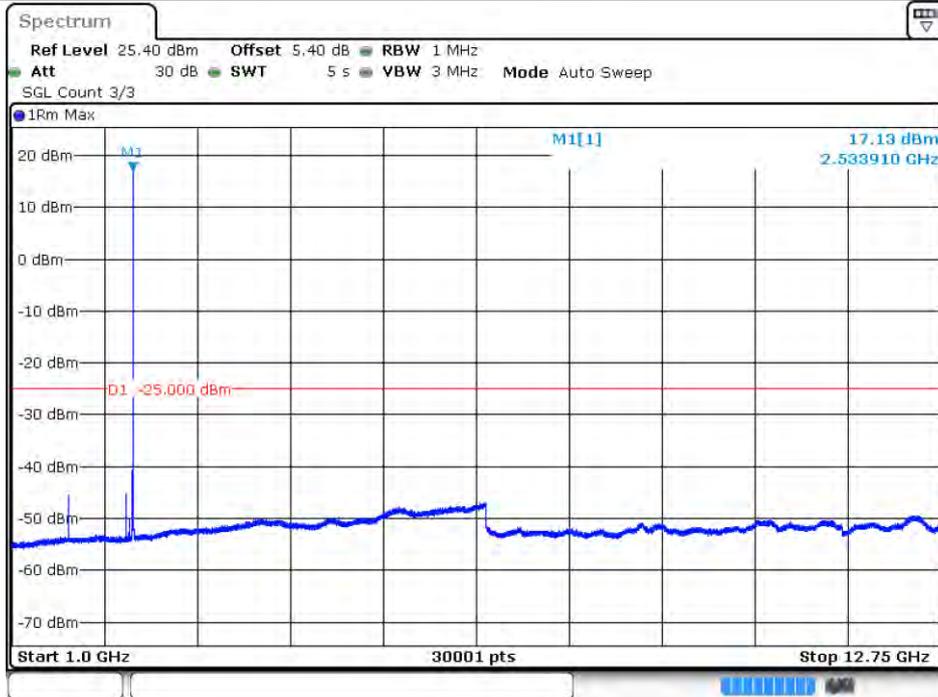


Date: 25.AUG.2020 00:04:19



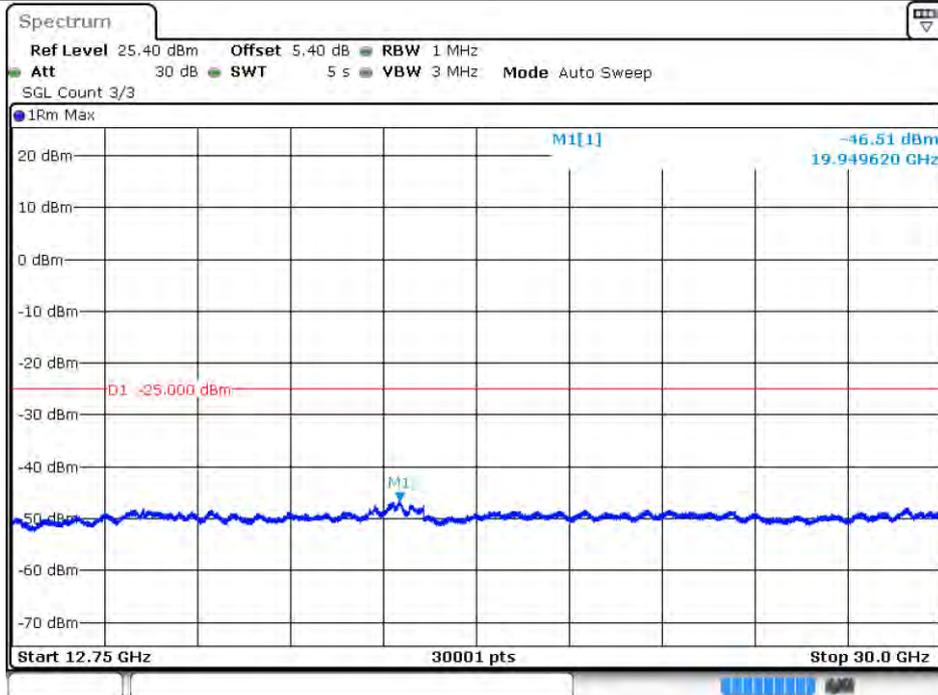


CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_ORB#0+1RB#99\_1000\_12750



Date: 25.AUG.2020 15:45:01

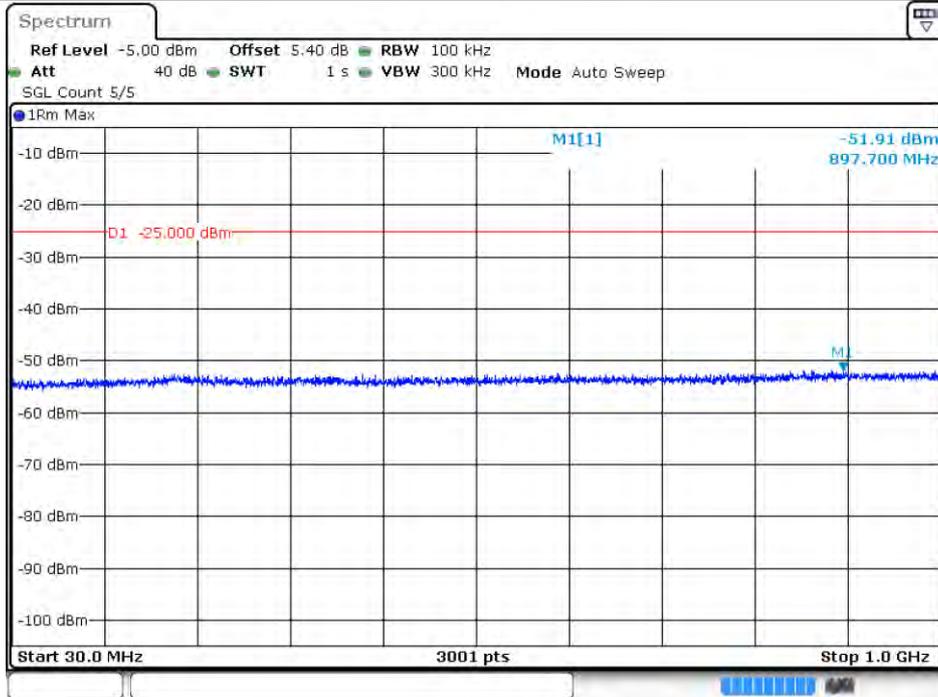
CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_ORB#0+1RB#99\_12750\_30000



Date: 25.AUG.2020 15:49:39

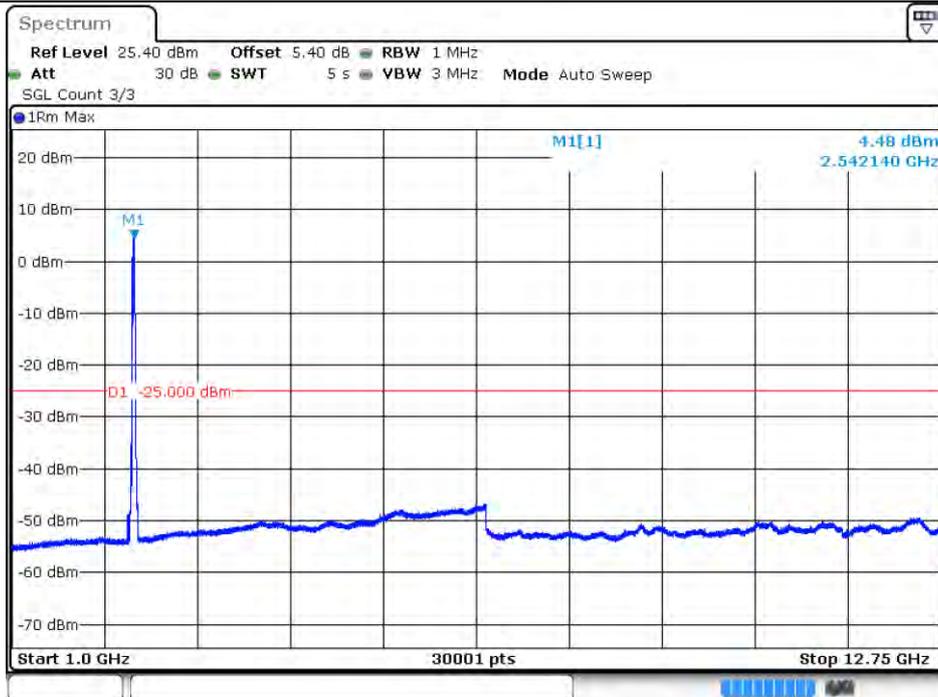


CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_100RB#0+100RB#0\_30\_1000



Date: 25.AUG.2020 00:04:25

CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_100RB#0+100RB#0\_1000\_12750

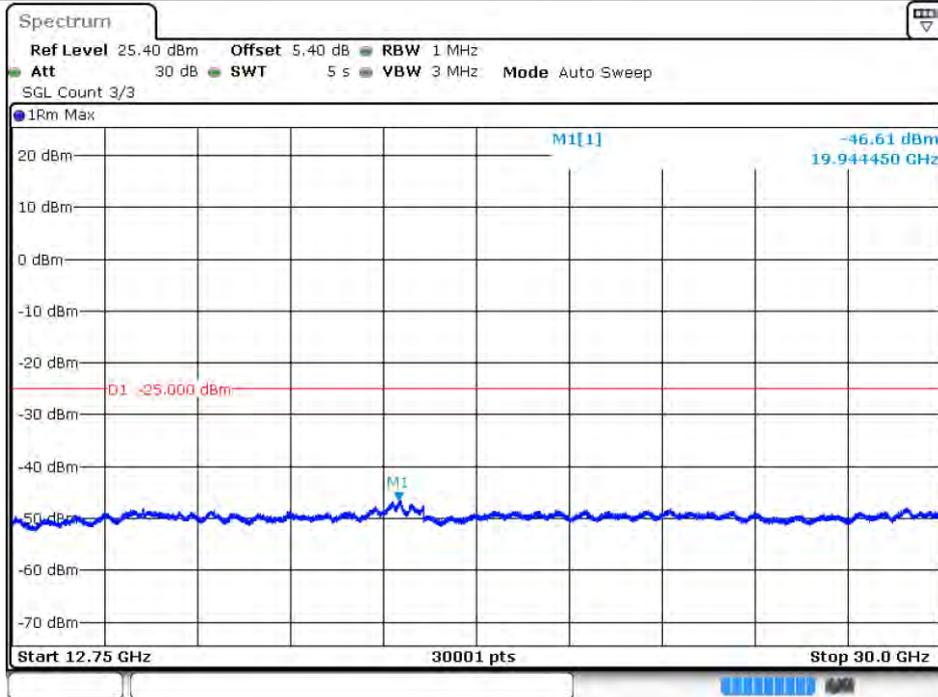


Date: 25.AUG.2020 15:45:39



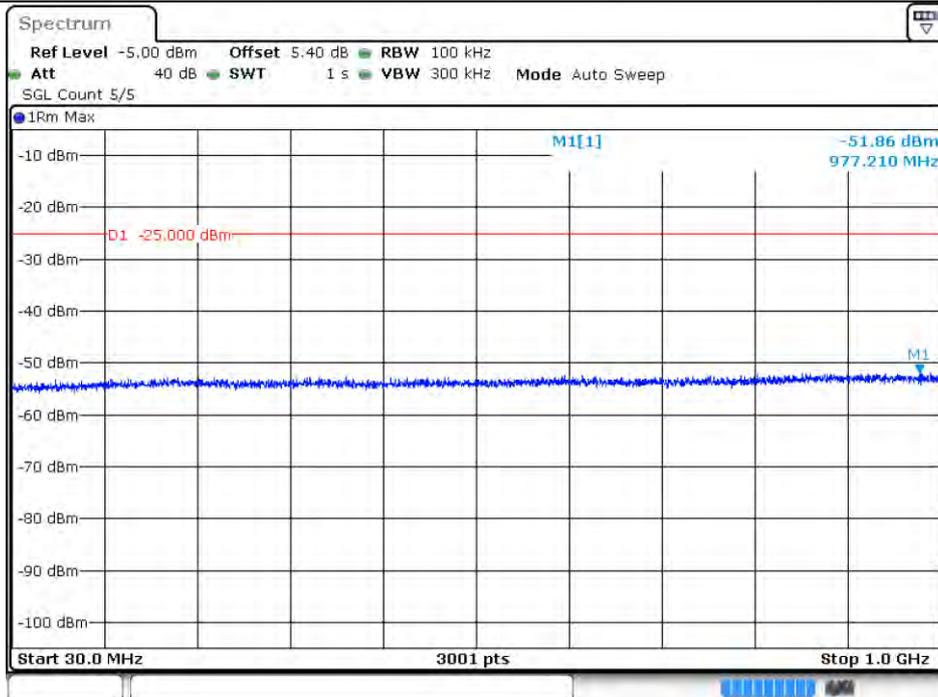


CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_100RB#0+100RB#0\_12750\_30000



Date: 25.AUG.2020 15:49:56

CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_1RB#0+0RB#0\_30\_1000

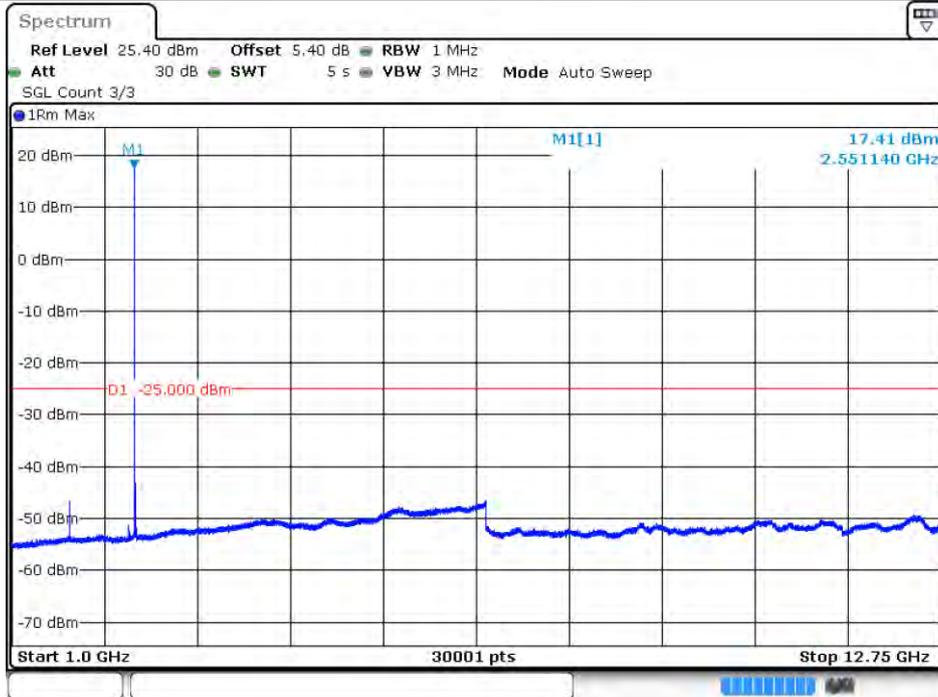


Date: 25.AUG.2020 00:04:35



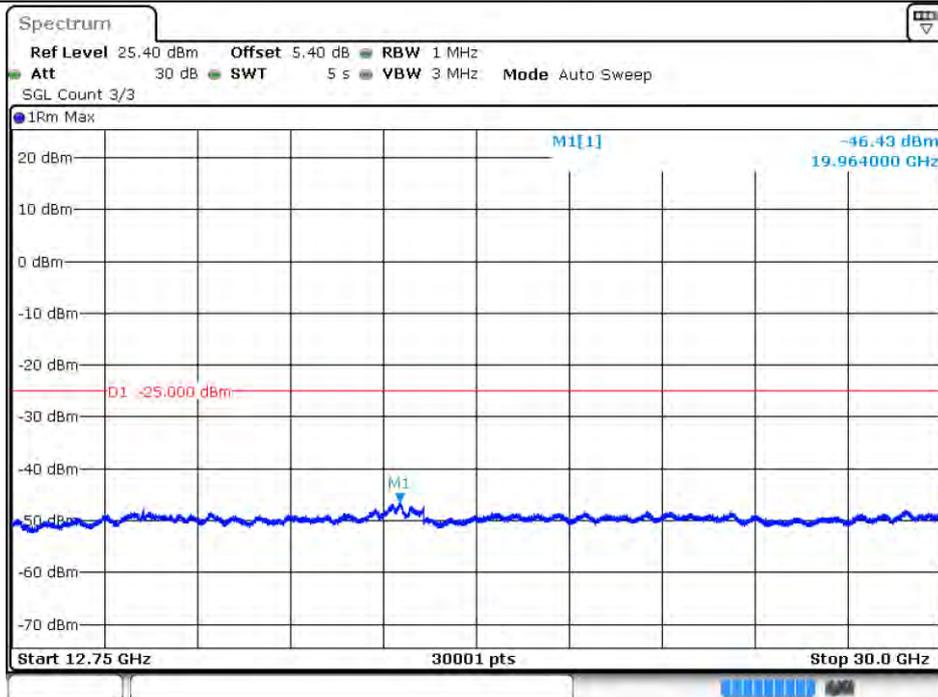


**CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_1RB#0+0RB#0\_1000\_12750**



Date: 25.AUG.2020 15:46:06

**CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_1RB#0+0RB#0\_12750\_30000**

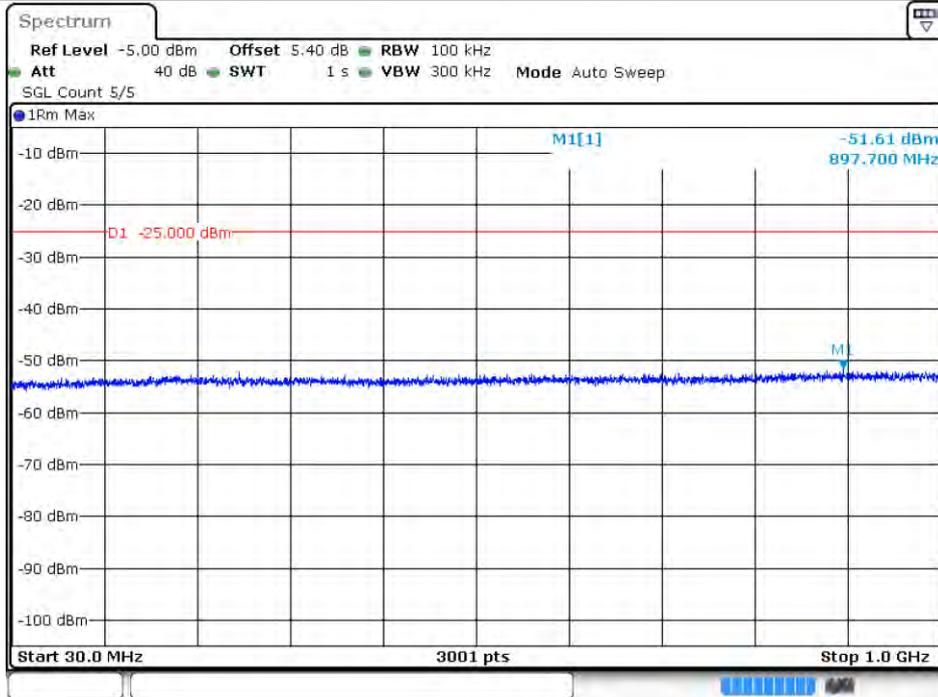


Date: 25.AUG.2020 15:50:22



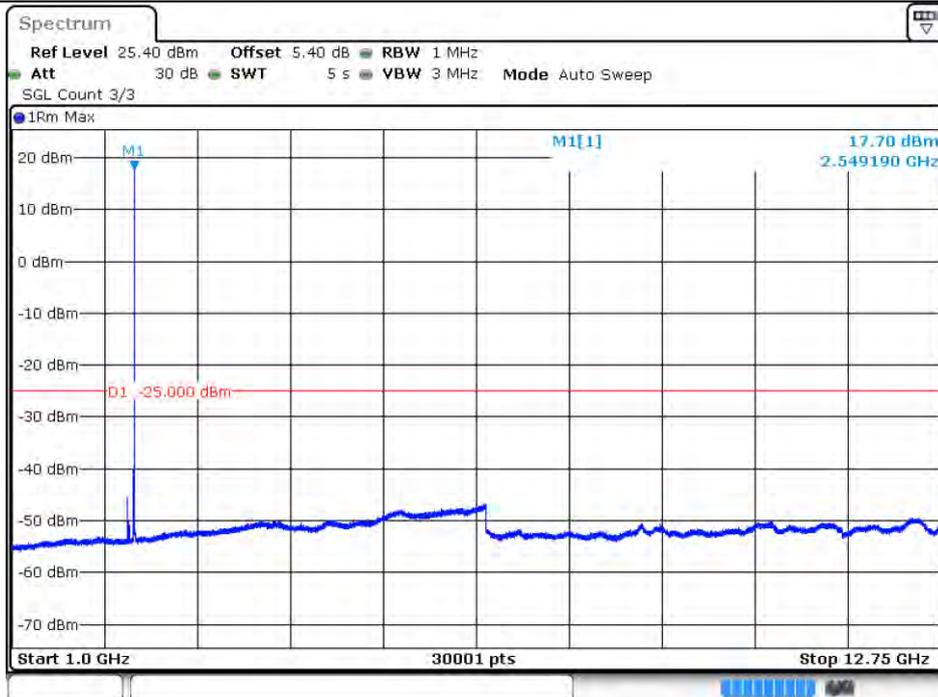


CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_0RB#0+1RB#99\_30\_1000



Date: 25.AUG.2020 00:04:42

CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_0RB#0+1RB#99\_1000\_12750

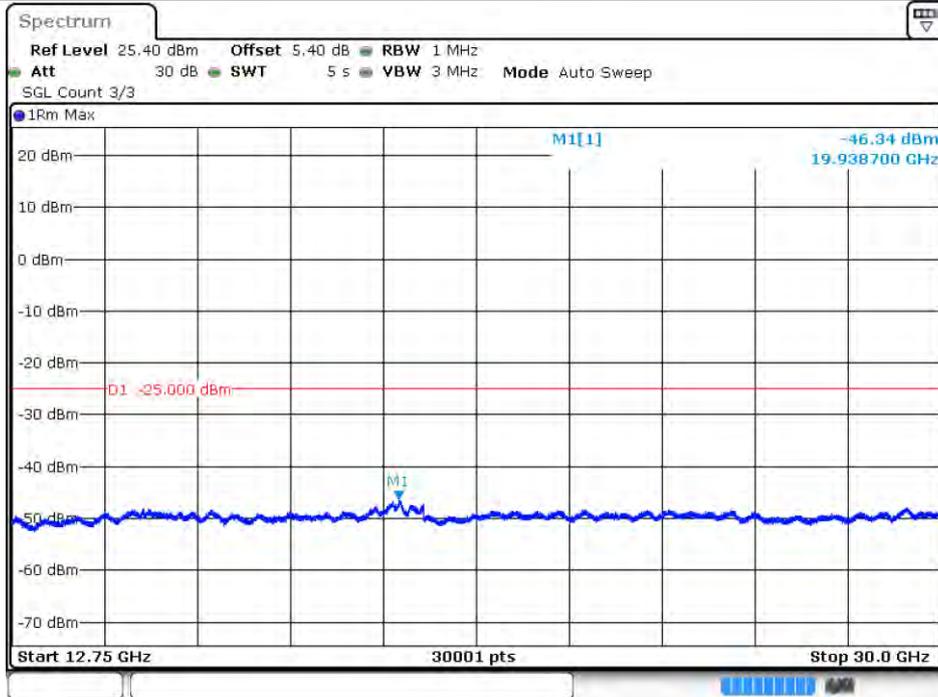


Date: 25.AUG.2020 15:46:23



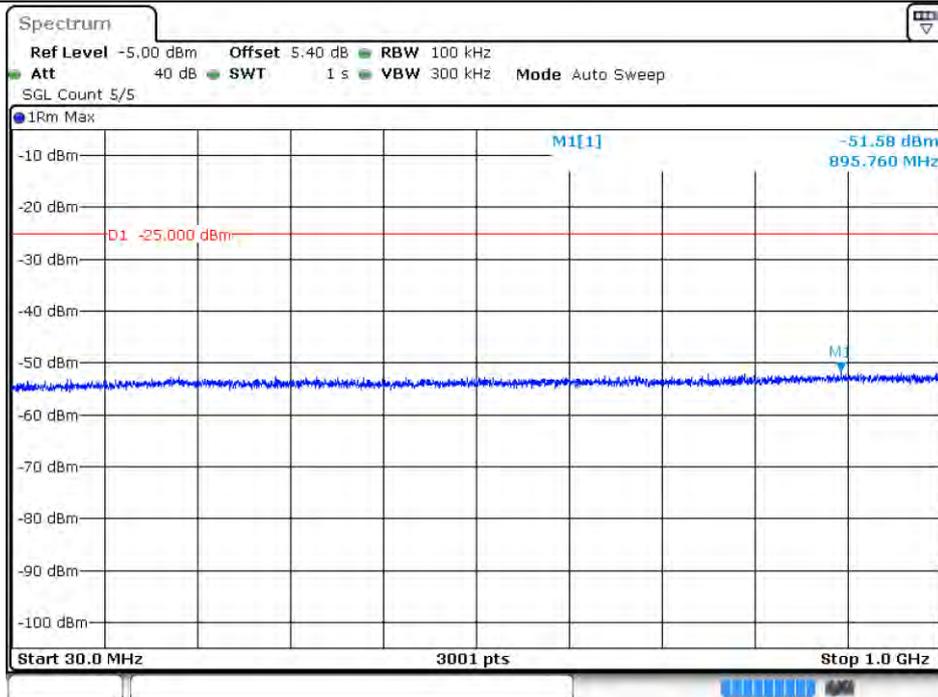


CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_0RB#0+1RB#99\_12750\_30000



Date: 25.AUG.2020 15:50:39

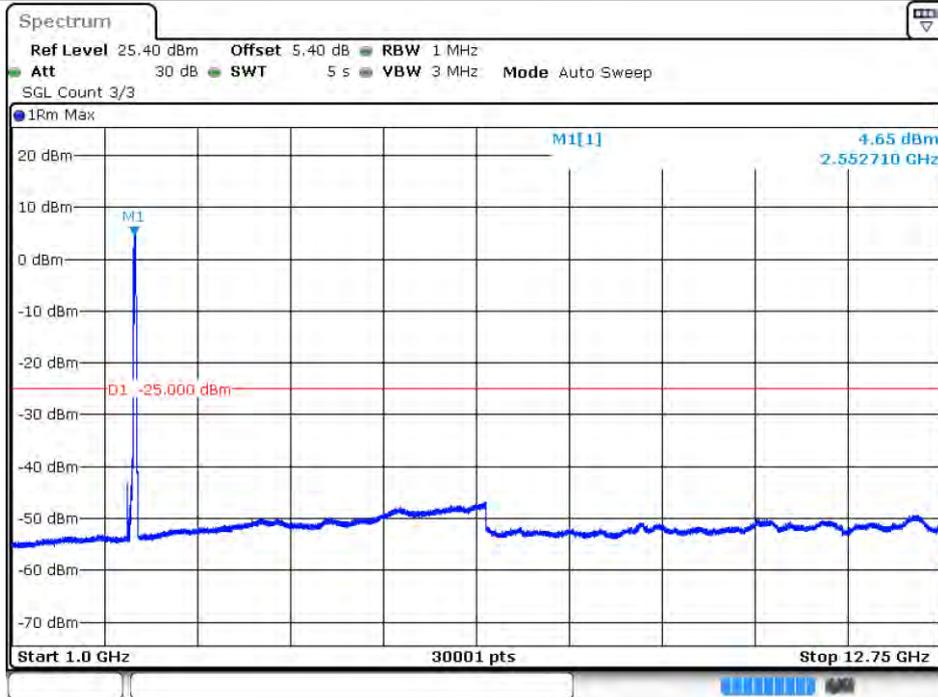
CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_100RB#0+100RB#0\_30\_1000



Date: 25.AUG.2020 00:04:48

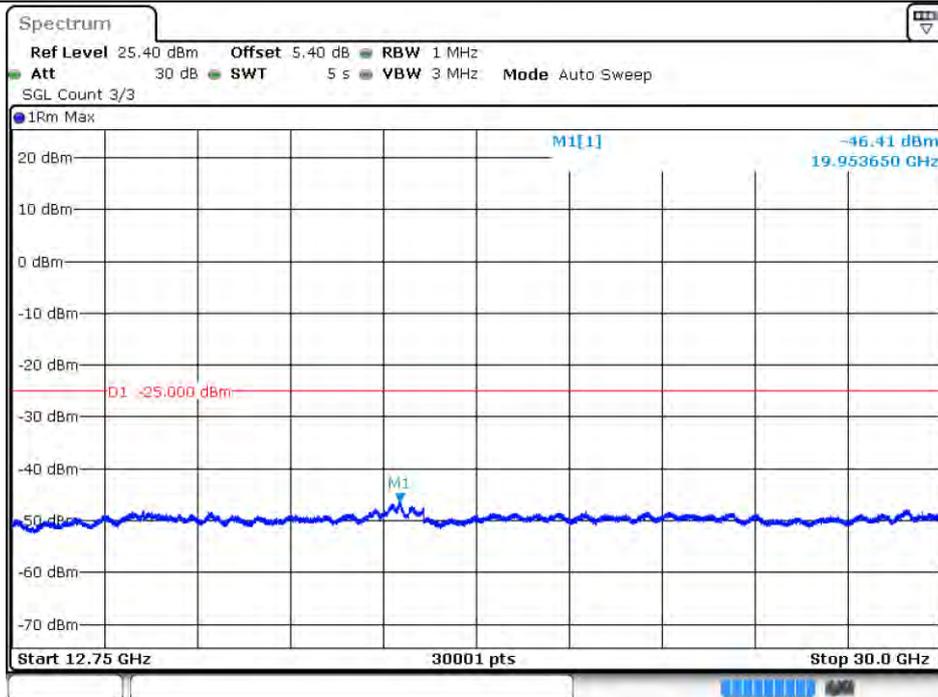


CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_100RB#0+100RB#0\_1000\_12750



Date: 25.AUG.2020 15:46:57

CA\_7C\_100RB+100RB\_QPSK\_21350+21152\_100RB#0+100RB#0\_12750\_30000



Date: 25.AUG.2020 15:50:57



## 7 Field Strength of Spurious Radiation

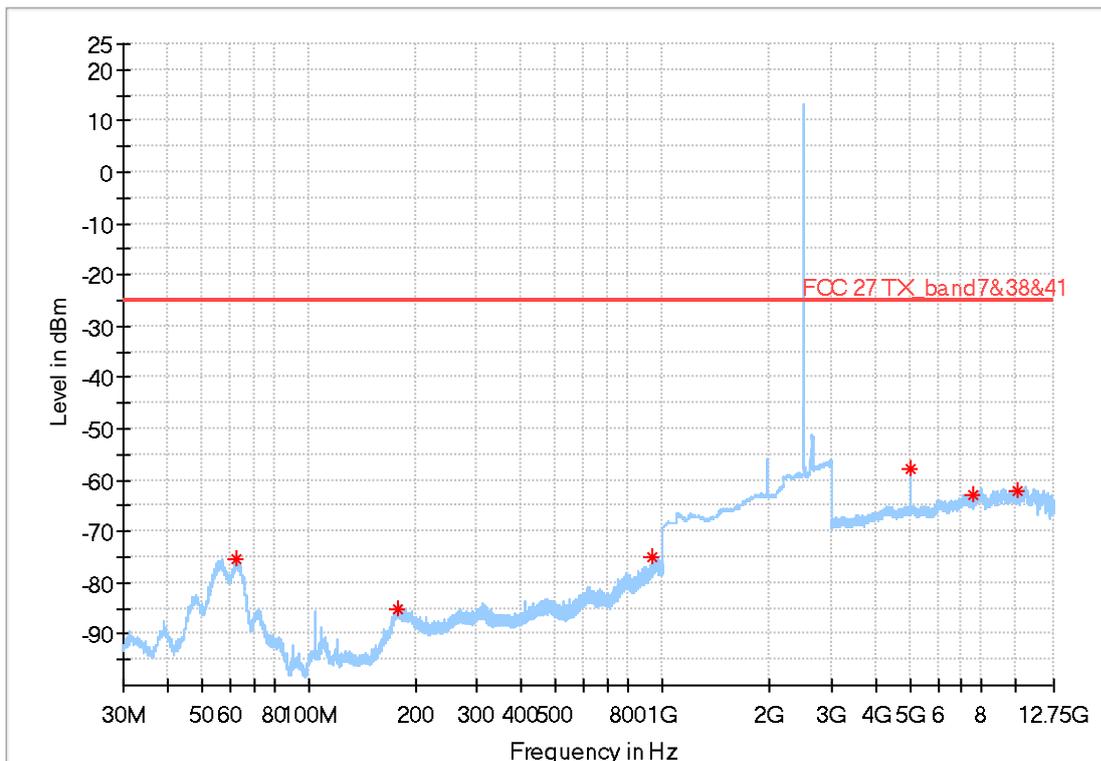
### 7.1 For LTE UL CA

#### 7.1.1 Test Band = LTE Band CA\_7C (Down Ant)

##### 7.1.1.1 Test Mode = LTE/QPSK

##### 7.1.1.1.1 Test Channel = LCH\_Horizontal

Full Spectrum



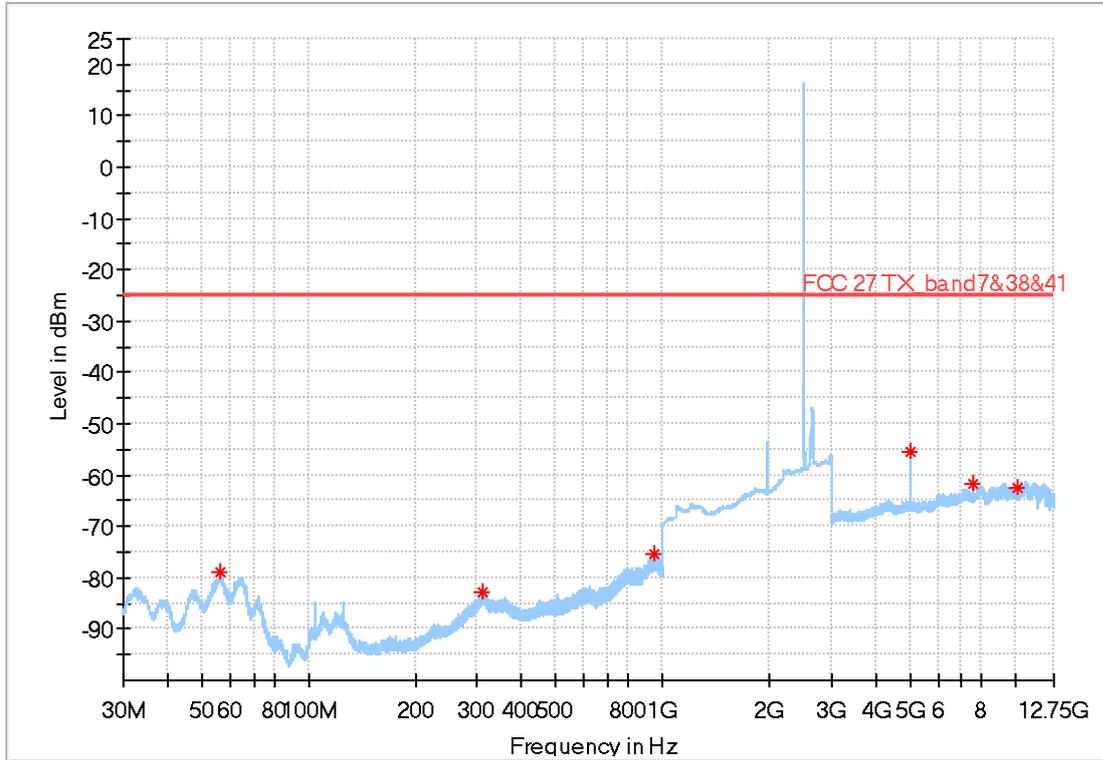
### Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.750000	-75.39	-25.00	50.40	---	---	200.0	H	92.0	-95.4
178.550000	-84.99	-25.00	59.99	---	---	200.0	H	320.0	-107.2
935.145833	-75.05	-25.00	50.05	---	---	200.0	H	273.0	-92.6
5002.000000	-57.68	-25.00	32.68	---	---	200.0	H	197.0	-101.6
7503.200000	-62.75	-25.00	37.75	---	---	200.0	H	174.0	-99.4
10007.975000	-62.20	-25.00	37.20	---	---	200.0	H	119.0	-97.5



**7.1.1.1.2 Test Channel = LCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.300000	-78.75	-25.00	53.75	---	---	200.0	V	276.0	-101.4
308.950000	-82.91	-25.00	57.91	---	---	200.0	V	276.0	-102.1
951.508333	-75.48	-25.00	50.48	---	---	200.0	V	133.0	-92.3
5002.000000	-55.40	-25.00	30.40	---	---	200.0	V	95.0	-101.7
7503.200000	-61.67	-25.00	36.67	---	---	200.0	V	186.0	-99.3
10124.975000	-62.55	-25.00	37.55	---	---	200.0	V	163.0	-97.5

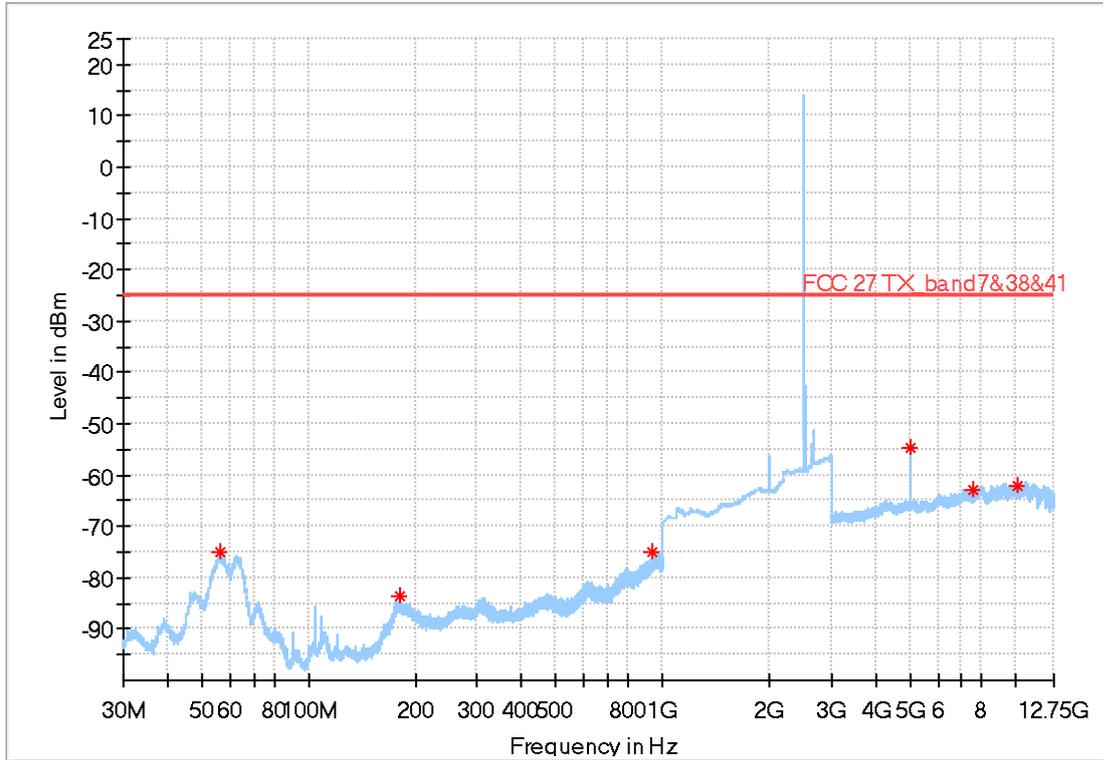


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**7.1.1.1.3 Test Channel = MCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.150000	-75.17	-25.00	50.17	---	---	200.0	H	320.0	-96.9
181.800000	-83.61	-25.00	58.61	---	---	200.0	H	347.0	-107.1
939.500000	-75.18	-25.00	50.18	---	---	200.0	H	0.0	-92.3
5032.225000	-54.77	-25.00	29.77	---	---	200.0	H	106.0	-101.6
7548.700000	-63.02	-25.00	38.02	---	---	200.0	H	106.0	-99.4
10057.050000	-62.26	-25.00	37.26	---	---	200.0	H	185.0	-97.3

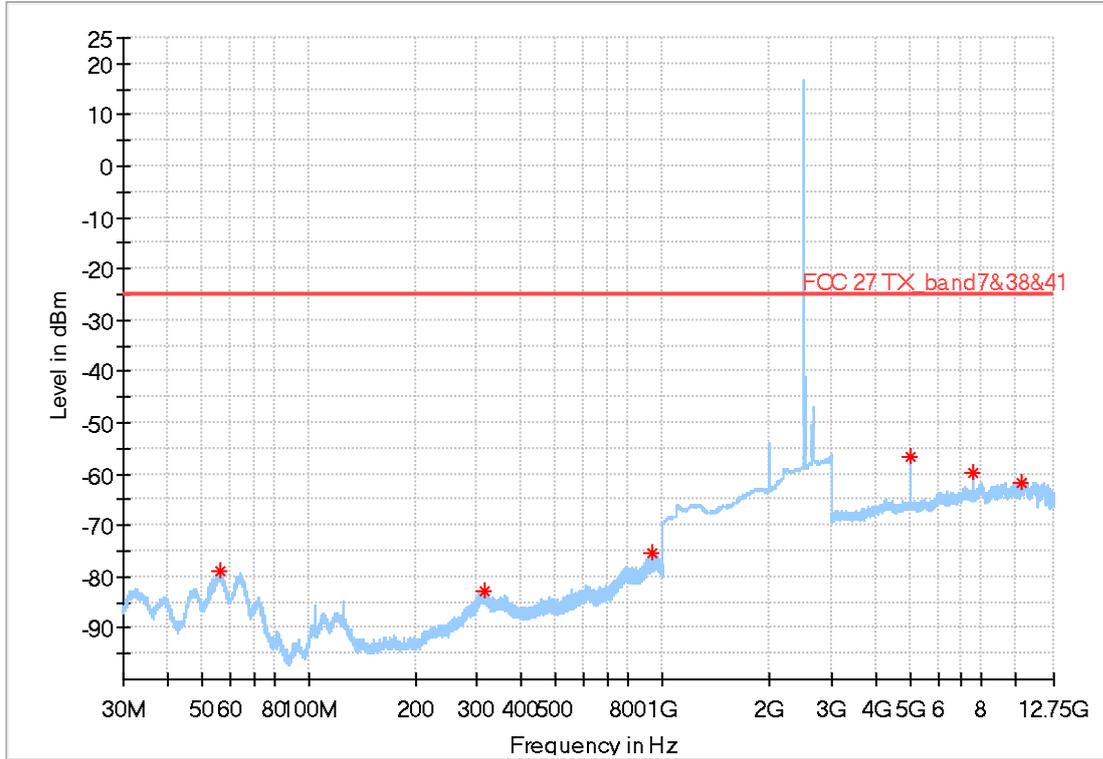


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**7.1.1.1.4 Test Channel = MCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.050000	-78.95	-25.00	53.95	---	---	200.0	V	227.0	-101.5
313.200000	-82.64	-25.00	57.64	---	---	200.0	V	311.0	-102.0
932.854167	-75.44	-25.00	50.44	---	---	200.0	V	88.0	-92.8
5031.900000	-56.82	-25.00	31.82	---	---	200.0	V	62.0	-101.7
7548.375000	-59.93	-25.00	34.93	---	---	200.0	V	141.0	-99.3
10278.700000	-61.89	-25.00	36.89	---	---	200.0	V	141.0	-96.8

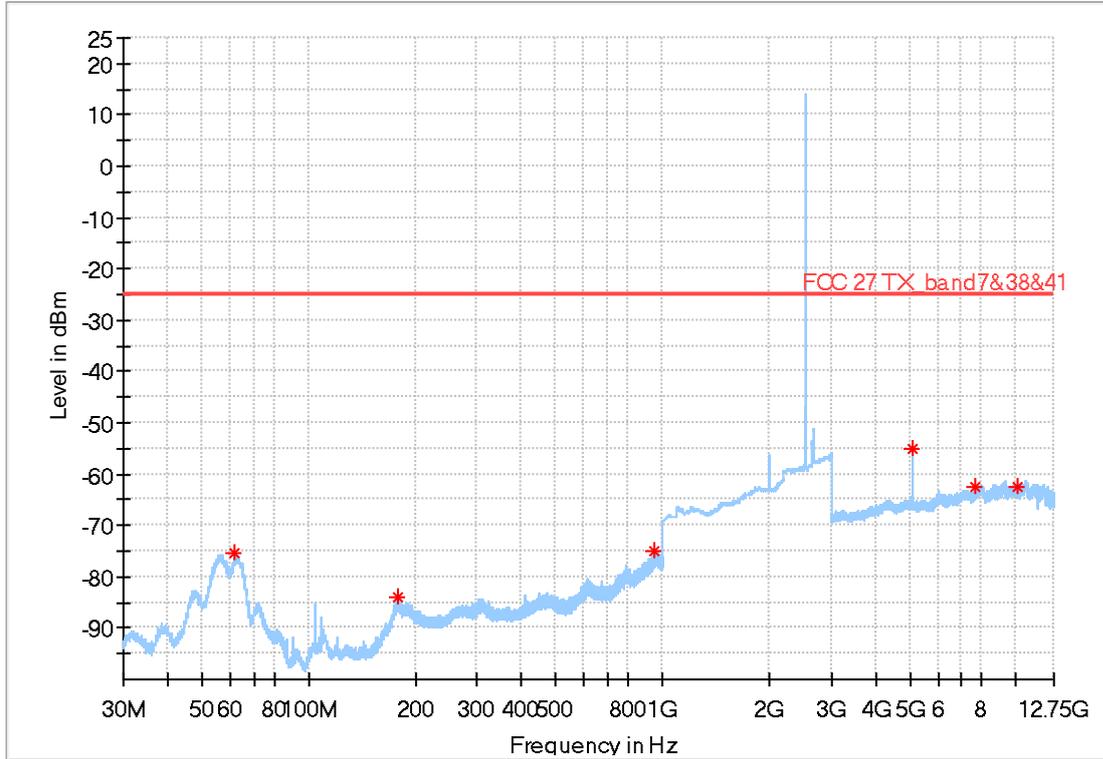


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**7.1.1.1.5 Test Channel = HCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.850000	-75.52	-25.00	50.52	---	---	200.0	H	329.0	-95.0
179.350000	-84.10	-25.00	59.10	---	---	200.0	H	338.0	-107.2
944.175000	-75.13	-25.00	50.13	---	---	200.0	H	154.0	-92.1
5062.450000	-55.20	-25.00	30.20	---	---	200.0	H	109.0	-101.7
7593.875000	-62.46	-25.00	37.46	---	---	200.0	H	335.0	-99.1
10012.200000	-62.43	-25.00	37.43	---	---	200.0	H	177.0	-97.4

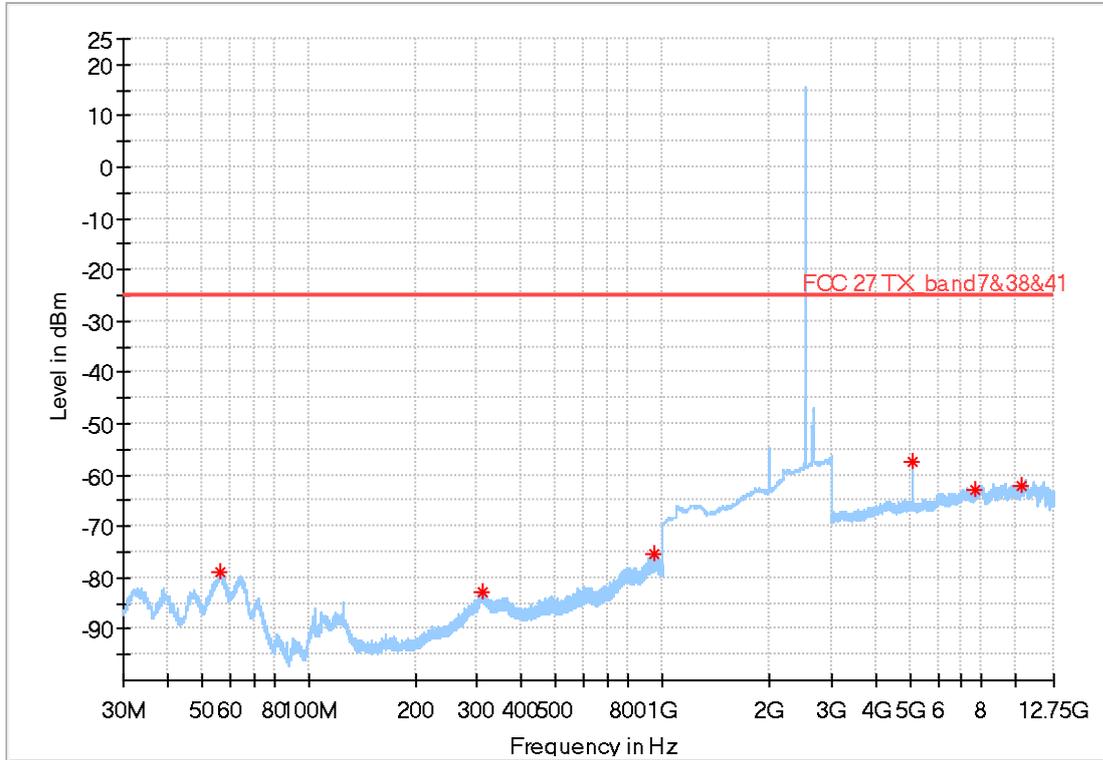


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**7.1.1.1.6 Test Channel = HCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.300000	-78.72	-25.00	53.72	---	---	200.0	V	301.0	-101.4
310.400000	-82.62	-25.00	57.62	---	---	200.0	V	291.0	-102.1
949.950000	-75.52	-25.00	50.52	---	---	200.0	V	341.0	-92.3
5062.450000	-57.26	-25.00	32.26	---	---	200.0	V	85.0	-101.8
7593.875000	-62.71	-25.00	37.71	---	---	200.0	V	288.0	-99.0
10299.175000	-61.95	-25.00	36.95	---	---	200.0	V	26.0	-96.7



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

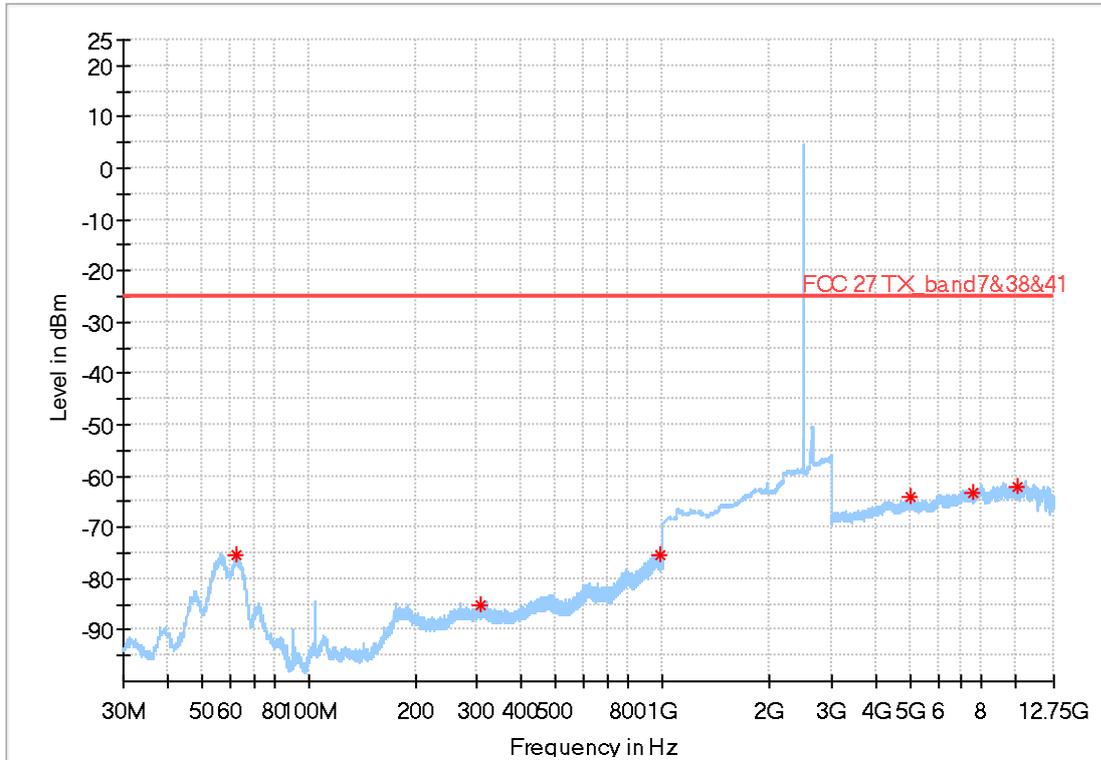
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053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

**7.1.2 Test Band = LTE Band CA\_7C (Up Ant)**

**7.1.2.1 Test Mode =LTE/QPSK**

**7.1.2.1.1 Test Channel = LCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.300000	-75.54	-25.00	50.54	---	---	200.0	H	246.0	-95.0
304.950000	-85.31	-25.00	60.31	---	---	200.0	H	199.0	-103.2
987.120833	-75.50	-25.00	50.50	---	---	200.0	H	344.0	-92.3
5002.000000	-64.21	-25.00	39.21	---	---	200.0	H	0.0	-101.6
7503.200000	-63.39	-25.00	38.39	---	---	200.0	H	117.0	-99.4
10012.200000	-62.30	-25.00	37.30	---	---	200.0	H	308.0	-97.4

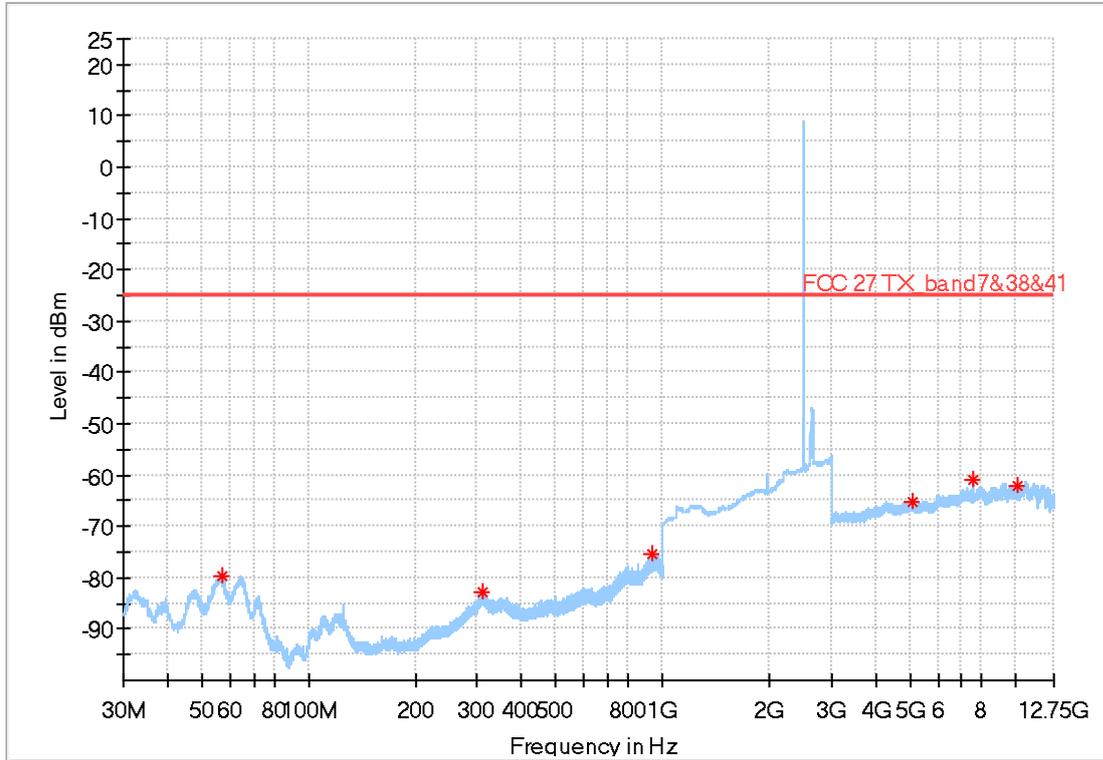


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

**7.1.2.1.2 Test Channel = LCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.050000	-79.57	-25.00	54.57	---	---	200.0	V	0.0	-101.3
310.200000	-82.82	-25.00	57.82	---	---	200.0	V	311.0	-102.1
933.037500	-75.53	-25.00	50.53	---	---	200.0	V	220.0	-92.8
5097.550000	-65.39	-25.00	40.39	---	---	200.0	V	105.0	-101.8
7503.525000	-60.94	-25.00	35.94	---	---	200.0	V	162.0	-99.3
10002.125000	-62.21	-25.00	37.21	---	---	200.0	V	342.0	-97.4

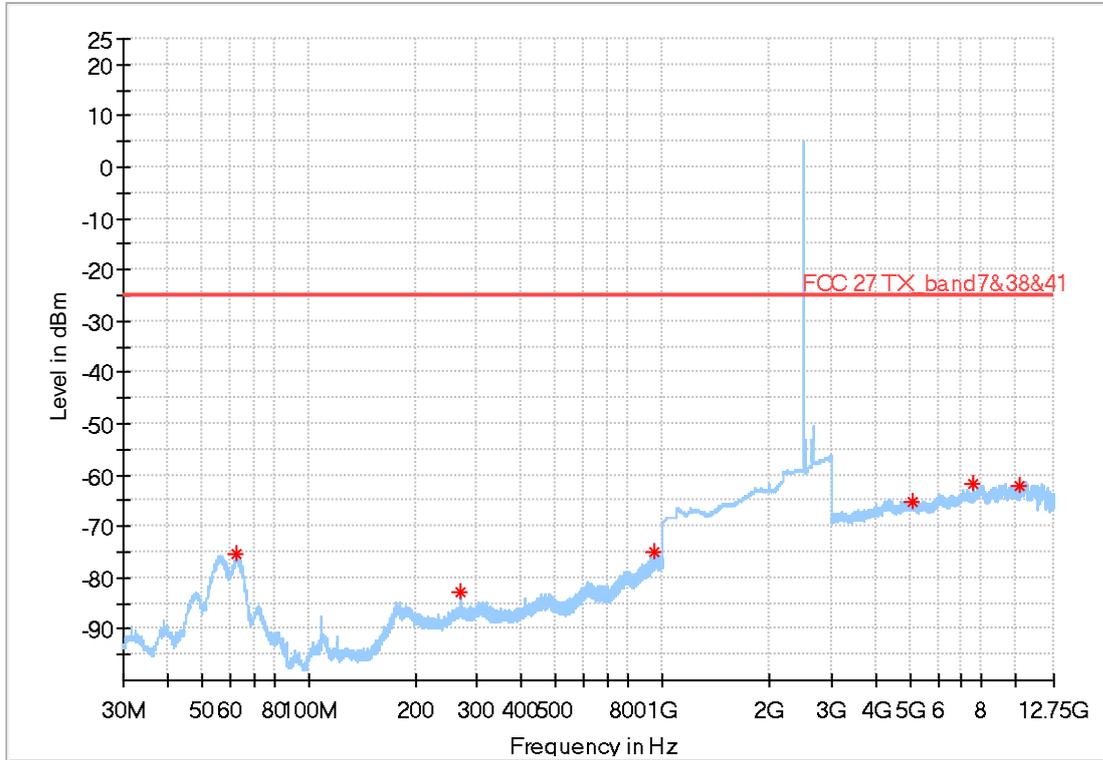


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

**7.1.2.1.3 Test Channel = MCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.850000	-75.53	-25.00	50.53	---	---	200.0	H	54.0	-95.5
270.450000	-82.95	-25.00	57.95	---	---	200.0	H	109.0	-102.3
948.941667	-75.18	-25.00	50.18	---	---	200.0	H	191.0	-91.9
5078.700000	-65.38	-25.00	40.38	---	---	200.0	H	131.0	-101.7
7548.375000	-61.54	-25.00	36.54	---	---	200.0	H	75.0	-99.4
10203.950000	-62.14	-25.00	37.14	---	---	200.0	H	210.0	-97.3

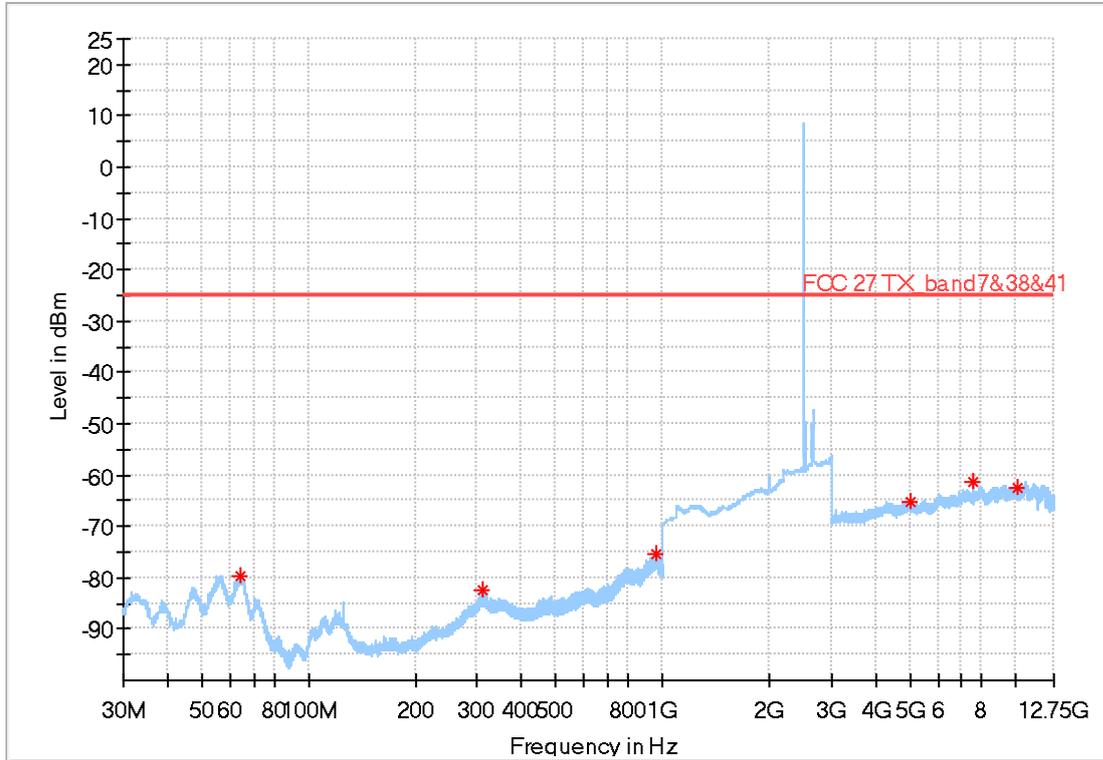


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

**7.1.2.1.4 Test Channel = MCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.400000	-79.64	-25.00	54.64	---	---	200.0	V	70.0	-99.9
309.000000	-82.53	-25.00	57.53	---	---	200.0	V	309.0	-102.1
960.720833	-75.56	-25.00	50.56	---	---	200.0	V	275.0	-92.4
5032.550000	-65.30	-25.00	40.30	---	---	200.0	V	243.0	-101.7
7548.375000	-61.25	-25.00	36.25	---	---	200.0	V	141.0	-99.3
10070.050000	-62.66	-25.00	37.66	---	---	200.0	V	331.0	-97.3

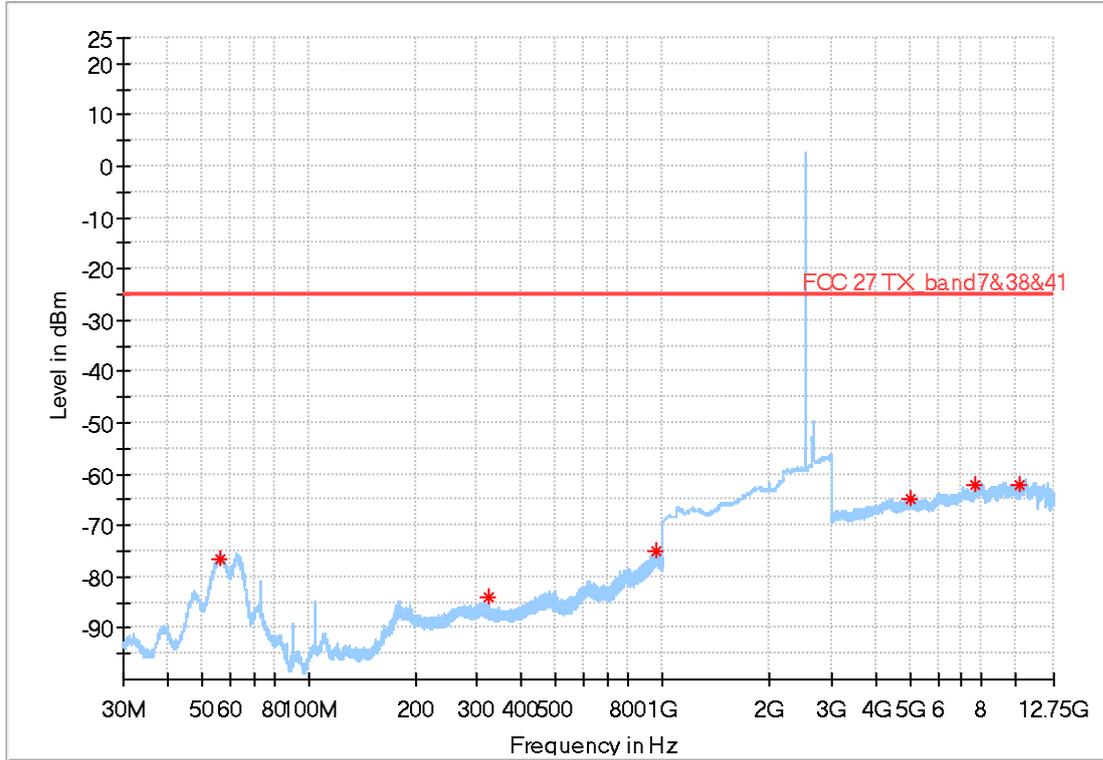


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

**7.1.2.1.5 Test Channel = HCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.250000	-76.38	-25.00	51.38	---	---	200.0	H	17.0	-96.9
321.600000	-83.92	-25.00	58.92	---	---	200.0	H	117.0	-103.5
960.950000	-75.11	-25.00	50.11	---	---	200.0	H	323.0	-91.9
5042.300000	-64.73	-25.00	39.73	---	---	200.0	H	276.0	-101.7
7593.875000	-62.06	-25.00	37.06	---	---	200.0	H	108.0	-99.1
10262.125000	-62.00	-25.00	37.00	---	---	200.0	H	15.0	-96.8

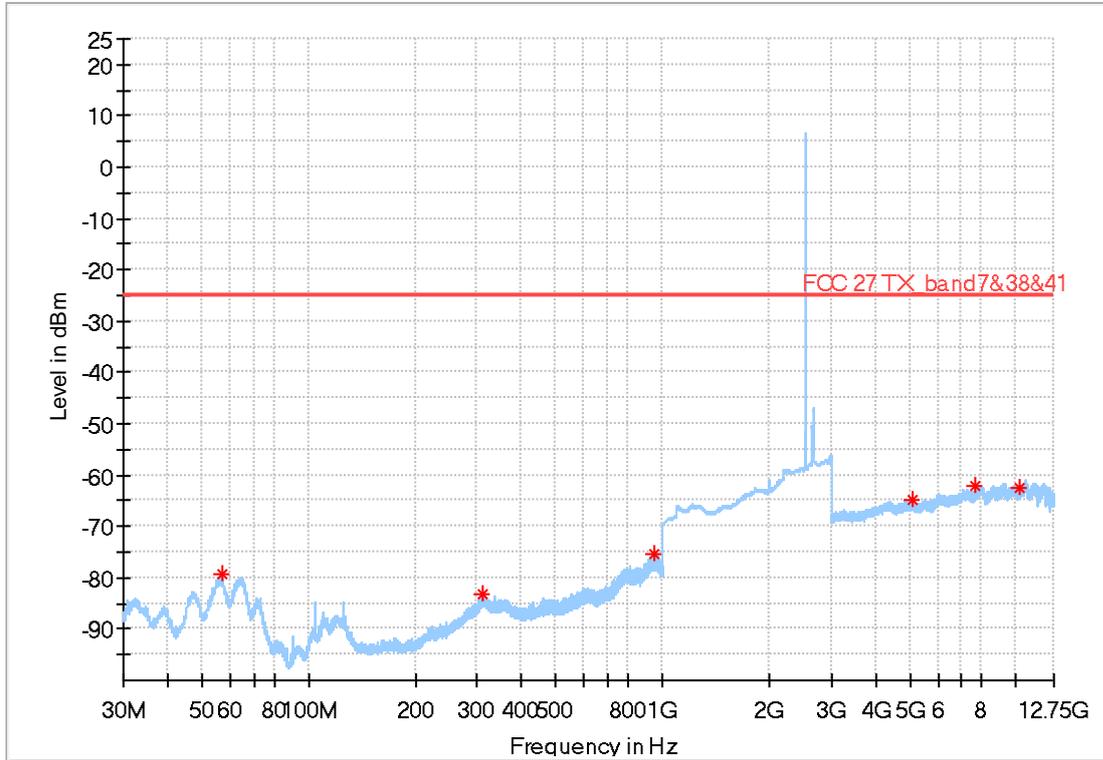


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic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

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

**7.1.2.1.6 Test Channel = HCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.250000	-79.25	-25.00	54.25	---	---	200.0	V	247.0	-101.3
310.500000	-83.39	-25.00	58.39	---	---	200.0	V	302.0	-102.1
946.329167	-75.35	-25.00	50.35	---	---	200.0	V	219.0	-92.3
5062.450000	-64.92	-25.00	39.92	---	---	200.0	V	353.0	-101.8
7593.550000	-62.18	-25.00	37.18	---	---	200.0	V	274.0	-99.0
10243.275000	-62.42	-25.00	37.42	---	---	200.0	V	13.0	-96.9

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.



## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			Config					
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	TN	NV	1.67	0.000667	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	TN	NV	-5.35	-0.002117	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	TN	NV	5.11	0.002012	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	TN	NV	-8.81	-0.003484	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	TN	NV	-11.81	-0.004641	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	TN	NV	-6.67	-0.002607	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	TN	NV	-11.82	-0.004719	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	TN	NV	7.85	0.003107	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	TN	NV	12.01	0.004729	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	TN	NV	7.86	0.003107	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	TN	NV	5.92	0.002327	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	TN	NV	3.29	0.001287	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	TN	NV	0.10	0.000038	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	TN	NV	3.53	0.001396	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	TN	NV	10.42	0.004101	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	TN	NV	-11.62	-0.004594	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	TN	NV	-9.25	-0.003636	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	TN	NV	-1.37	-0.000536	PASS



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

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



### 8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			Config					
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	-30	-10.54	-0.004207	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	-20	-2.46	-0.000981	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	-10	14.03	0.005598	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	0	-5.59	-0.002233	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	10	-13.91	-0.005552	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	20	-5.14	-0.002053	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	30	7.40	0.002955	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	40	-14.89	-0.005943	PASS
CA_7 C	QPSK	20850-21048	100RB#0/100RB#0	NV	50	13.28	0.005299	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	-30	-5.80	-0.002298	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	-20	2.09	0.000827	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	-10	6.07	0.002402	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	0	14.43	0.005716	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	10	-9.25	-0.003662	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	20	-14.10	-0.005585	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	30	-1.06	-0.000420	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	40	9.02	0.003570	PASS
CA_7 C	QPSK	21001-21199	100RB#0/100RB#0	NV	50	-14.77	-0.005851	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	-30	-4.62	-0.001820	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	-20	-4.93	-0.001941	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	-10	4.45	0.001750	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	0	10.76	0.004234	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	10	6.57	0.002586	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	20	-2.22	-0.000874	PASS



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

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



CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	30	-5.33	-0.002099	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	40	3.91	0.001539	PASS
CA_7 C	QPSK	21152-21350	100RB#0/100RB#0	NV	50	-11.17	-0.004396	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	-30	14.69	0.005805	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	-20	11.69	0.004623	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	-10	0.22	0.000088	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	0	12.99	0.005134	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	10	-4.06	-0.001606	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	20	-4.84	-0.001914	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	30	12.02	0.004751	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	40	-1.43	-0.000567	PASS
CA_7 C	QPSK	21048-20850	100RB#0/100RB#0	NV	50	10.91	0.004313	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	-30	5.33	0.002094	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	-20	9.44	0.003708	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	-10	-0.94	-0.000369	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	0	13.00	0.005110	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	10	-4.03	-0.001582	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	20	-0.25	-0.000099	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	30	-12.24	-0.004811	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	40	-6.69	-0.002628	PASS
CA_7 C	QPSK	21199-21001	100RB#0/100RB#0	NV	50	-5.57	-0.002190	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	-30	-13.69	-0.005346	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	-20	11.22	0.004382	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	-10	7.35	0.002871	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	0	0.28	0.000109	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	10	4.11	0.001607	PASS



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

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



CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	20	2.49	0.000973	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	30	-13.98	-0.005460	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	40	-2.75	-0.001074	PASS
CA_7 C	QPSK	21350-21152	100RB#0/100RB#0	NV	50	1.11	0.000433	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	-30	-10.48	-0.004181	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	-20	3.07	0.001226	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	-10	3.68	0.001468	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	0	-2.42	-0.000965	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	10	5.87	0.002344	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	20	-1.63	-0.000651	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	30	-10.38	-0.004144	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	40	-4.67	-0.001862	PASS
CA_7 C	16QAM	20850-21048	100RB#0/100RB#0	NV	50	7.50	0.002993	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	-30	2.80	0.001109	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	-20	-14.28	-0.005654	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	-10	-4.03	-0.001596	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	0	-5.33	-0.002113	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	10	-1.95	-0.000770	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	20	4.38	0.001736	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	30	-4.32	-0.001711	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	40	8.85	0.003503	PASS
CA_7 C	16QAM	21001-21199	100RB#0/100RB#0	NV	50	8.71	0.003450	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	-30	5.51	0.002169	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	-20	5.28	0.002080	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	-10	-1.32	-0.000521	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	0	-11.75	-0.004627	PASS



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

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



CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	10	8.42	0.003317	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	20	11.29	0.004444	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	30	-11.89	-0.004681	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	40	11.39	0.004483	PASS
CA_7 C	16QAM	21152-21350	100RB#0/100RB#0	NV	50	-5.38	-0.002117	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	-30	-7.40	-0.002926	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	-20	-7.96	-0.003147	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	-10	-10.76	-0.004254	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	0	10.13	0.004004	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	10	4.62	0.001825	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	20	-13.69	-0.005412	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	30	10.54	0.004166	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	40	-8.70	-0.003439	PASS
CA_7 C	16QAM	21048-20850	100RB#0/100RB#0	NV	50	-9.34	-0.003692	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	-30	-13.13	-0.005158	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	-20	12.21	0.004799	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	-10	3.54	0.001392	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	0	-8.22	-0.003232	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	10	-13.16	-0.005171	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	20	-5.66	-0.002223	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	30	-12.08	-0.004747	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	40	7.01	0.002756	PASS
CA_7 C	16QAM	21199-21001	100RB#0/100RB#0	NV	50	10.53	0.004138	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	-30	2.70	0.001056	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	-20	-12.33	-0.004817	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	-10	1.30	0.000506	PASS



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

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



CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	0	-8.56	-0.003345	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	10	-11.89	-0.004644	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	20	6.04	0.002361	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	30	-4.81	-0.001880	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	40	3.91	0.001526	PASS
CA_7 C	16QAM	21350-21152	100RB#0/100RB#0	NV	50	-7.52	-0.002937	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	-30	-12.72	-0.005078	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	-20	-7.09	-0.002828	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	-10	12.27	0.004897	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	0	14.33	0.005720	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	10	-14.86	-0.005929	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	20	-0.89	-0.000356	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	30	-9.01	-0.003595	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	40	10.05	0.004010	PASS
CA_7 C	64QAM	20850-21048	100RB#0/100RB#0	NV	50	0.79	0.000315	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	-30	-7.94	-0.003143	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	-20	3.80	0.001504	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	-10	-8.78	-0.003479	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	0	4.70	0.001861	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	10	-4.68	-0.001853	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	20	3.75	0.001485	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	30	-2.29	-0.000906	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	40	-4.71	-0.001866	PASS
CA_7 C	64QAM	21001-21199	100RB#0/100RB#0	NV	50	3.41	0.001352	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	-30	3.95	0.001555	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	-20	8.05	0.003170	PASS



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

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](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_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	-10	-9.69	-0.003813	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	0	-7.93	-0.003121	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	10	2.05	0.000809	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	20	-3.86	-0.001518	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	30	-5.52	-0.002171	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	40	0.51	0.000201	PASS
CA_7 C	64QAM	21152-21350	100RB#0/100RB#0	NV	50	-6.28	-0.002474	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	-30	10.44	0.004128	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	-20	-2.75	-0.001086	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	-10	-4.80	-0.001896	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	0	0.45	0.000180	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	10	5.51	0.002178	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	20	3.31	0.001308	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	30	9.69	0.003829	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	40	11.94	0.004720	PASS
CA_7 C	64QAM	21048-20850	100RB#0/100RB#0	NV	50	-6.91	-0.002731	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	-30	8.09	0.003178	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	-20	13.53	0.005316	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	-10	14.18	0.005572	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	0	7.17	0.002817	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	10	-13.13	-0.005160	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	20	1.83	0.000719	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	30	4.65	0.001827	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	40	-5.30	-0.002082	PASS
CA_7 C	64QAM	21199-21001	100RB#0/100RB#0	NV	50	-13.35	-0.005247	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	-30	-13.87	-0.005419	PASS



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

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



CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	-20	14.51	0.005666	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	-10	12.04	0.004702	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	0	12.45	0.004862	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	10	0.56	0.000220	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	20	14.14	0.005523	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	30	9.87	0.003855	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	40	6.37	0.002487	PASS
CA_7 C	64QAM	21350-21152	100RB#0/100RB#0	NV	50	-5.12	-0.001998	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) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)