



Appendix B

E-UTRA Band CA_38C



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1 Effective (Isotropic) Radiated Power Output Data

1.1 Max Power Test Result for LTE Band CA_38C(ANT31)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	23.19	20.64	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	23.22	20.67	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	22.77	20.22	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	22.87	20.32	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	23.1	20.55	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	23.29	20.74	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	22.78	20.23	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	22.87	20.32	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	22.46	19.91	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	22.61	20.06	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	22.41	19.86	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	22.56	20.01	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	22.28	19.73	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	22.22	19.67	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	21.89	19.34	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	21.87	19.32	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	22.23	19.68	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	22.3	19.75	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	21.92	19.37	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	21.81	19.26	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	21.59	19.04	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	21.55	19	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	21.54	18.99	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	21.5	18.95	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.85	18.3	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	20.9	18.35	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	20.35	17.8	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.37	17.82	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	20.42	17.87	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	20.6	18.05	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	20.51	17.96	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	20.59	18.04	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	20.68	18.13	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	20.78	18.23	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	20.5	17.95	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	20.58	18.03	33.00	PASS



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1.2 Max Power Test Result for LTE Band CA_38C(ANT13)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	QPSK	22.95	21.63	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	QPSK	22.88	21.56	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	QPSK	23.12	21.8	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	QPSK	22.96	21.64	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	QPSK	23.23	21.91	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	QPSK	23.05	21.73	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	QPSK	23.25	21.93	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	QPSK	23.1	21.78	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	QPSK	23.29	21.97	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	QPSK	23.24	21.92	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	QPSK	23.57	22.25	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	QPSK	23.45	22.13	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	16QAM	21.86	20.54	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	16QAM	21.98	20.66	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	16QAM	22.06	20.74	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	16QAM	22.07	20.75	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	16QAM	22.17	20.85	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	16QAM	22.18	20.86	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	16QAM	22.23	20.91	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	16QAM	22.22	20.9	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	16QAM	22.29	20.97	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	16QAM	22.35	21.03	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	16QAM	22.56	21.24	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	16QAM	22.54	21.22	33.00	PASS
CA_38C	75RB+75RB	37825+37975	1RB#0	0RB#0	64QAM	20.9	19.58	33.00	PASS
CA_38C	75RB+75RB	37825+37975	16RB#0	0RB#0	64QAM	20.81	19.49	33.00	PASS
CA_38C	75RB+75RB	37925+38075	1RB#0	0RB#0	64QAM	21.06	19.74	33.00	PASS
CA_38C	75RB+75RB	37925+38075	16RB#0	0RB#0	64QAM	20.9	19.58	33.00	PASS
CA_38C	75RB+75RB	38025+38175	1RB#0	0RB#0	64QAM	21.18	19.86	33.00	PASS
CA_38C	75RB+75RB	38025+38175	16RB#0	0RB#0	64QAM	21.01	19.69	33.00	PASS
CA_38C	100RB+100RB	37850+38048	1RB#0	0RB#0	64QAM	21.14	19.82	33.00	PASS
CA_38C	100RB+100RB	37850+38048	18RB#0	0RB#0	64QAM	21.02	19.7	33.00	PASS
CA_38C	100RB+100RB	37901+38099	1RB#0	0RB#0	64QAM	21.17	19.85	33.00	PASS
CA_38C	100RB+100RB	37901+38099	18RB#0	0RB#0	64QAM	21.16	19.84	33.00	PASS
CA_38C	100RB+100RB	37952+38150	1RB#0	0RB#0	64QAM	21.45	20.13	33.00	PASS
CA_38C	100RB+100RB	37952+38150	18RB#0	0RB#0	64QAM	21.33	20.01	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]



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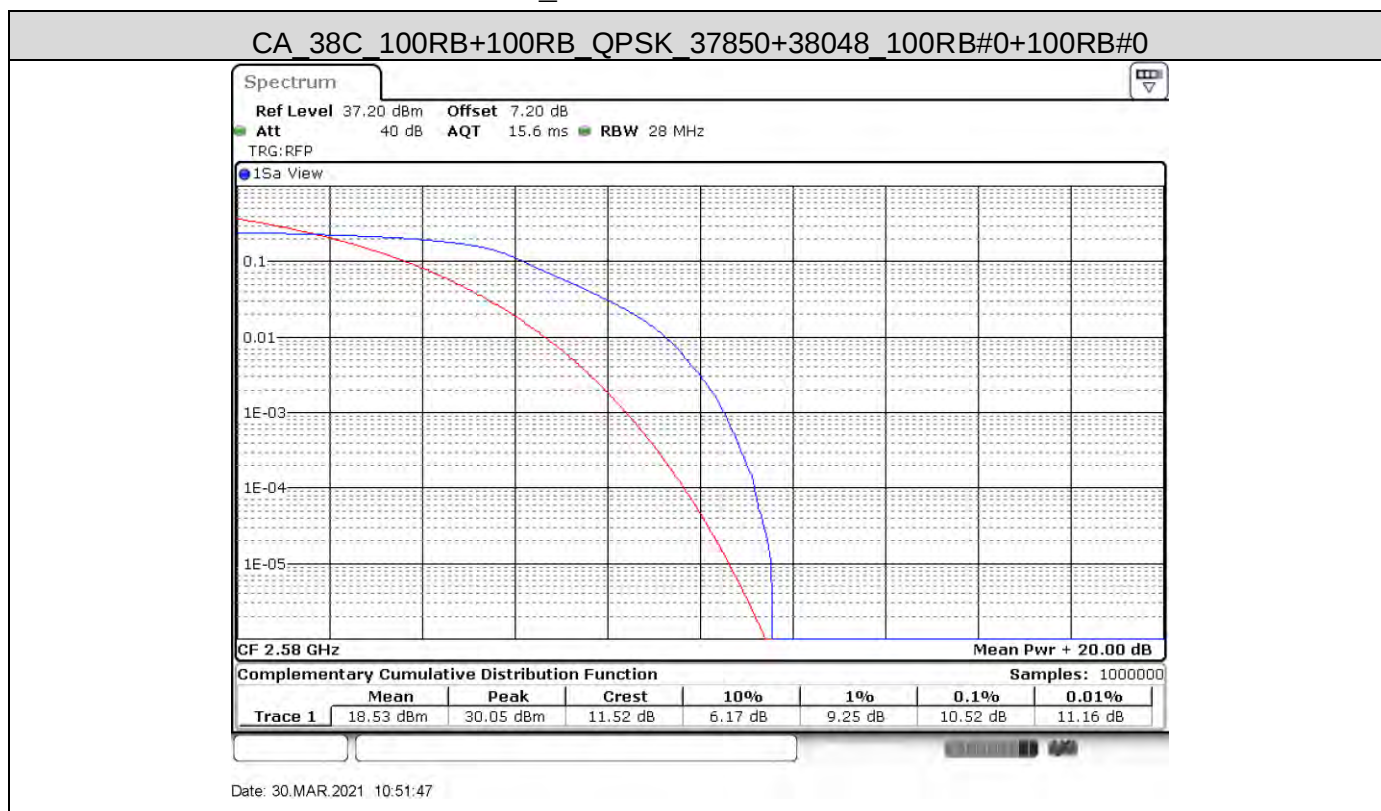
2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	10.52	13.00	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	8.81	13.00	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	8.81	13.00	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	9.51	13.00	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	9.59	13.00	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	9.54	13.00	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	8.38	13.00	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	9.71	13.00	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	9.83	13.00	PASS

2.1 For LTE

2.1.1 Test Band = LTE Band CA_38C



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CA 38C 100RB+100RB QPSK 37901+38099 100RB#0+100RB#0



Date: 30.MAR.2021 10:52:10

CA 38C 100RB+100RB QPSK 37952+38150 100RB#0+100RB#0



Date: 30.MAR.2021 10:52:33



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CA 38C 100RB+100RB 16QAM 37850+38048 100RB#0+100RB#0



Date: 30.MAR.2021 10:51:59

CA 38C 100RB+100RB 16QAM 37901+38099 100RB#0+100RB#0



Date: 30.MAR.2021 10:52:21

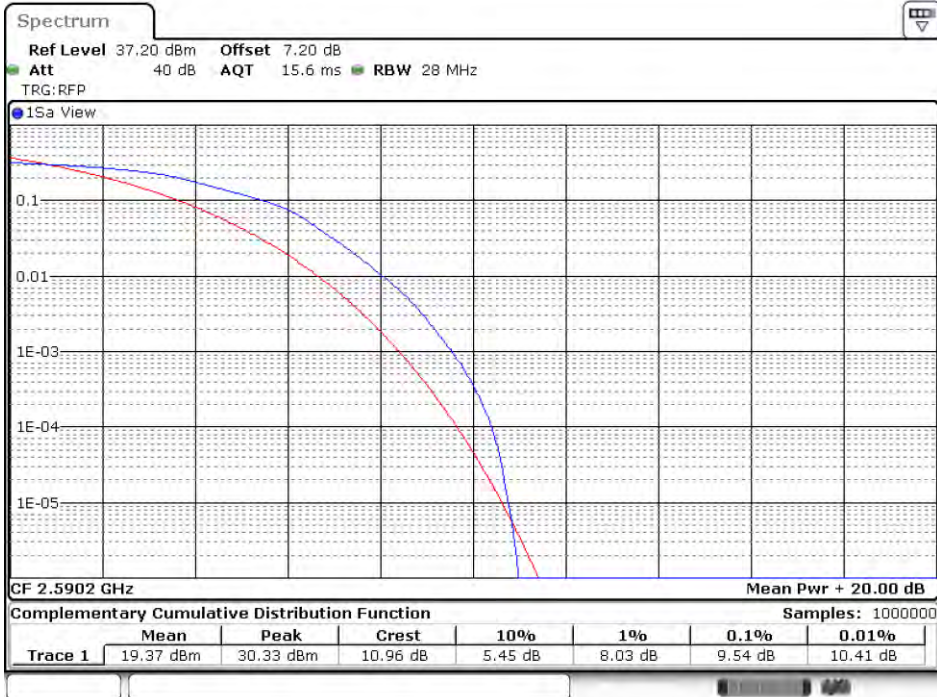


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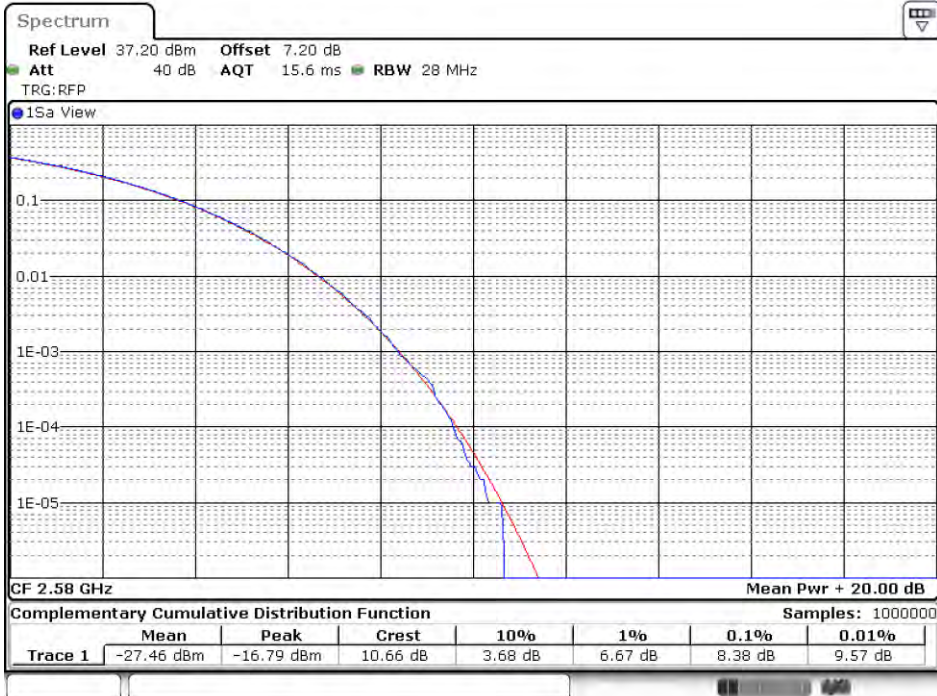
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CA 38C 100RB+100RB 16QAM 37952+38150 100RB#0+100RB#0



Date: 30.MAR.2021 10:52:44

CA 38C 100RB+100RB 64QAM 37850+38048 100RB#0+100RB#0



Date: 30.MAR.2021 10:55:36

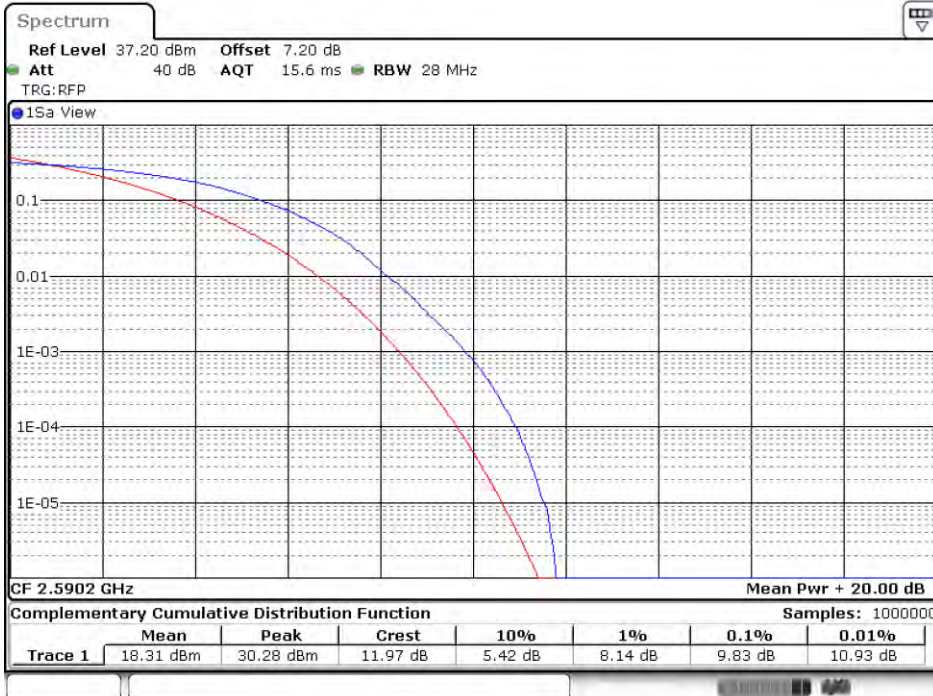


CA 38C 100RB+100RB 64QAM 37901+38099 100RB#0+100RB#0



Date: 30.MAR.2021 10:55:48

CA 38C 100RB+100RB 64QAM 37952+38150 100RB#0+100RB#0



Date: 30.MAR.2021 10:55:59



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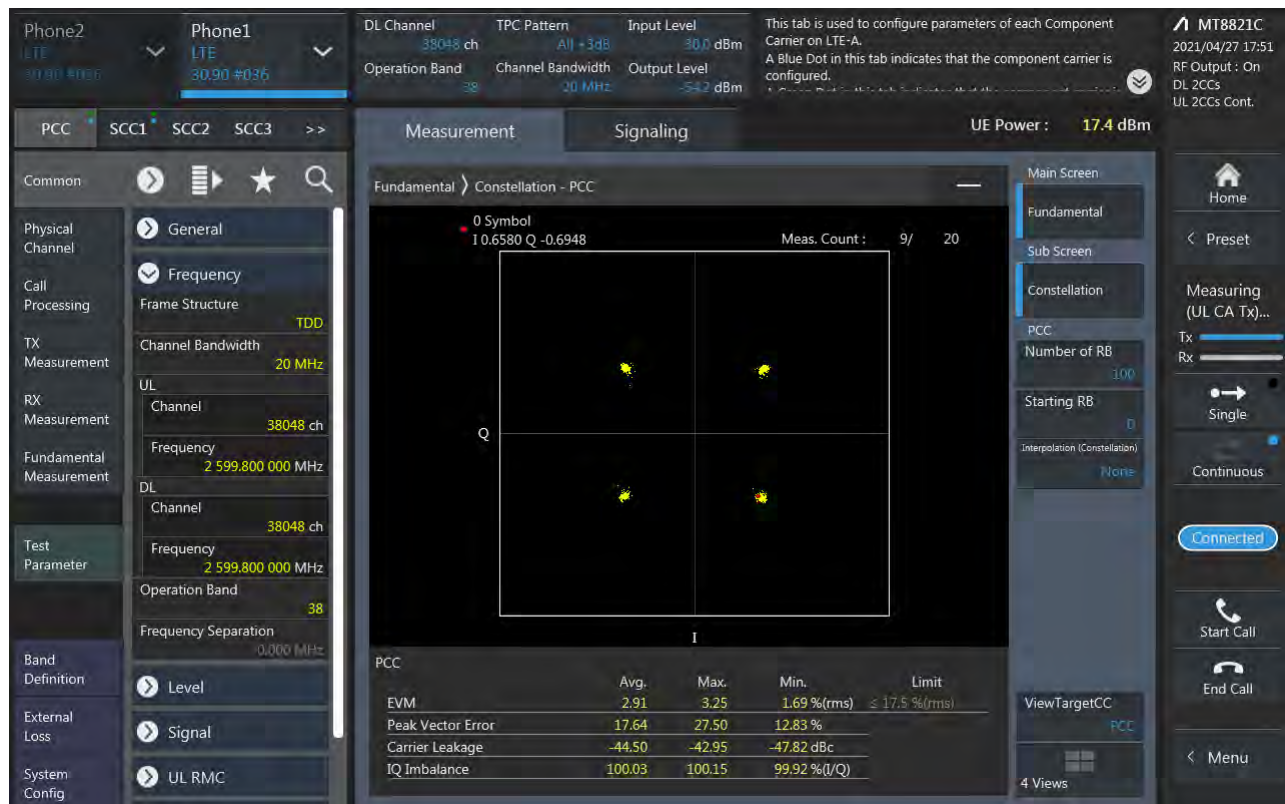
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_38C

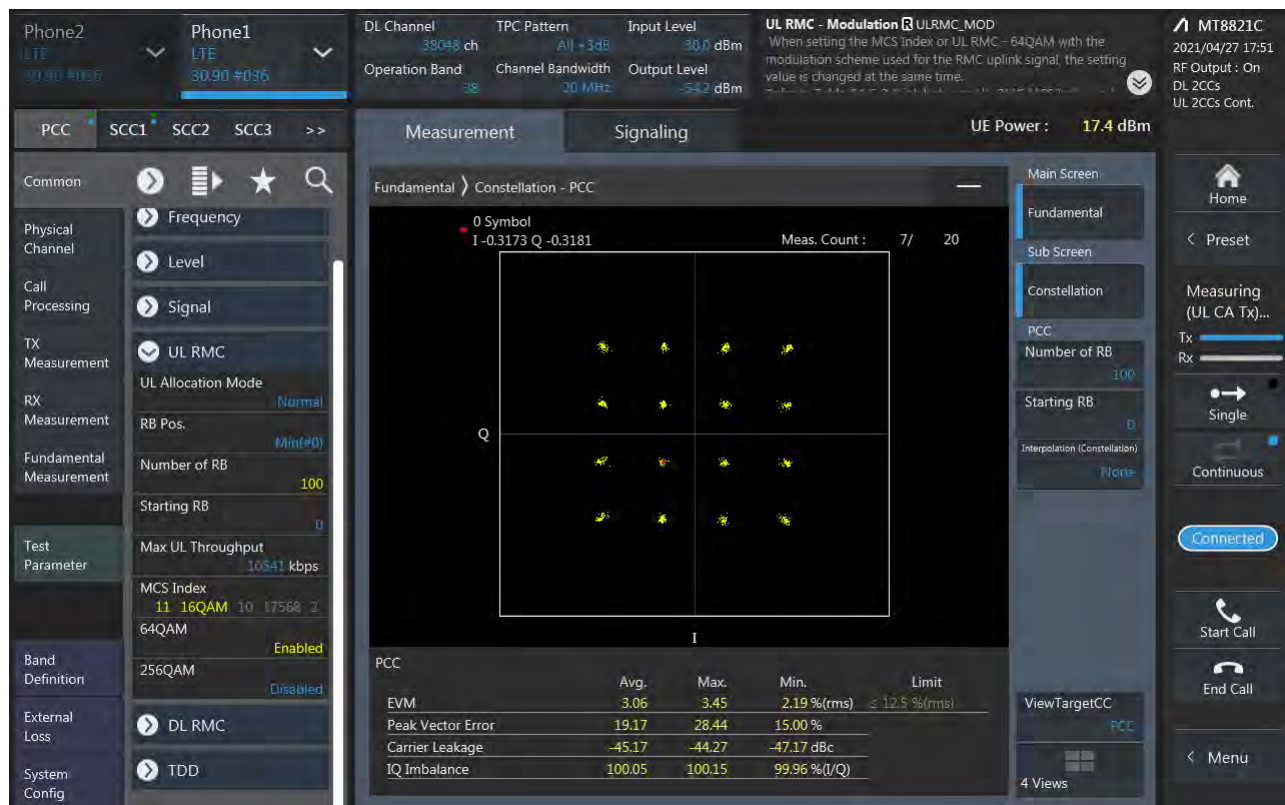
3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 37850+38048





3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB
3.1.1.2.1 Test Channel =37850+38048



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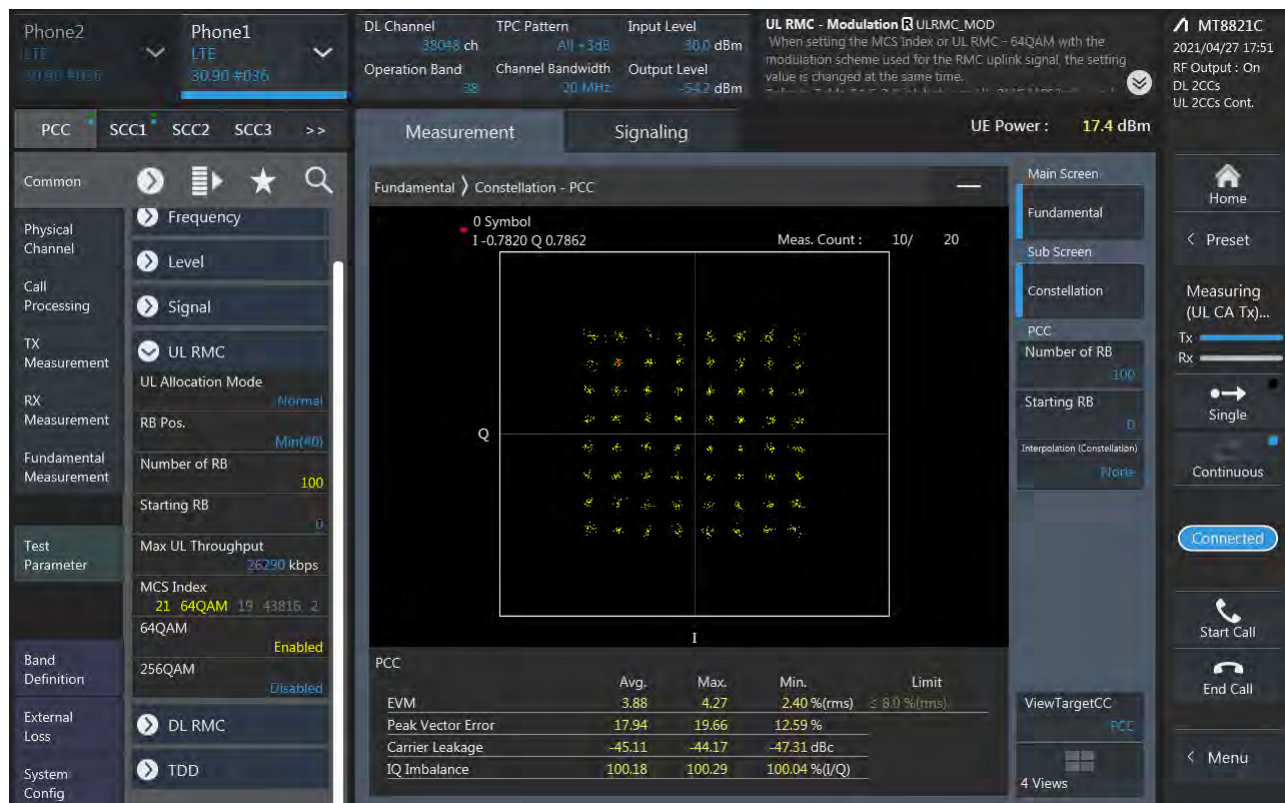
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3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 37850+38048



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4 26dB Bandwidth and Occupied Bandwidth

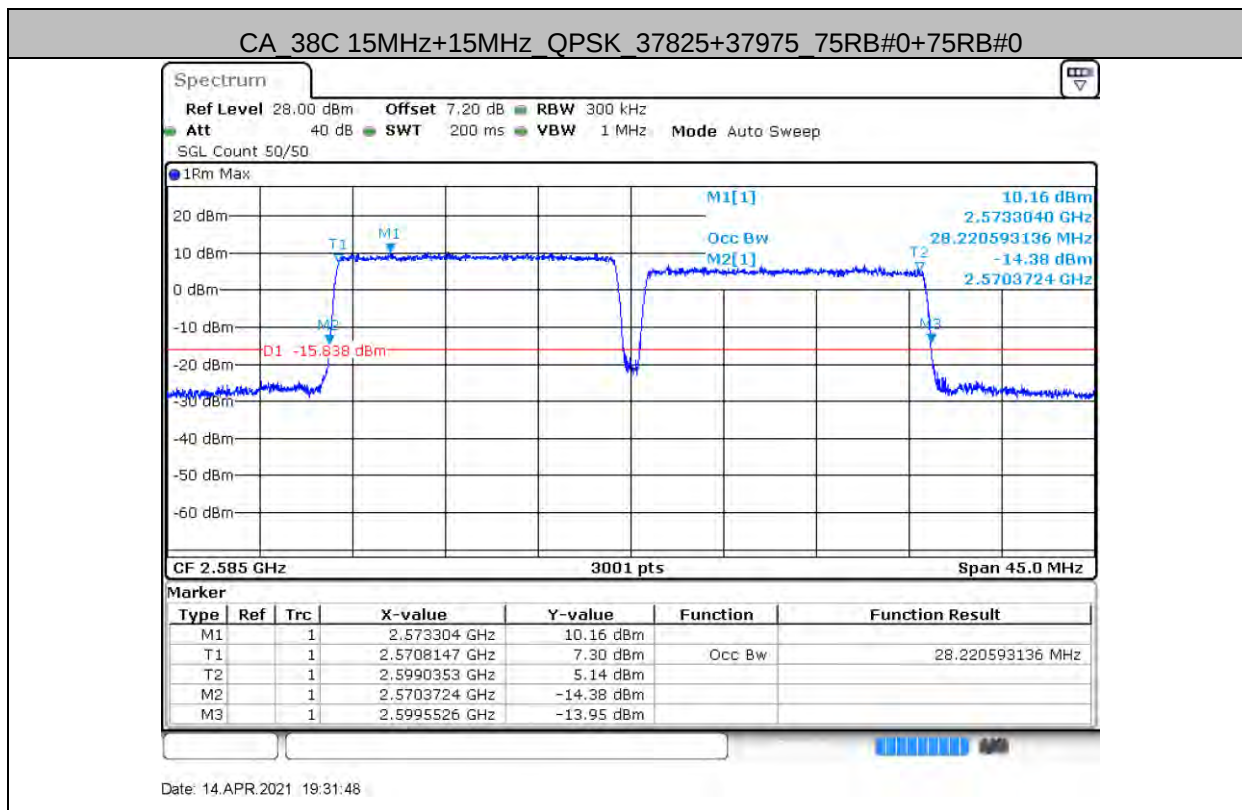
Test Band	Modulation PCC&SCC	Test Mode PCC/SCC	Test Channel PCC/SCC	PCC RB	SCC RB	OBW [MHz]	EBW [MHz]	Verdict
CA_38C	QPSK	75RB+75RB	37825+37975	75RB#0	75RB#0	28.22	29.18	PASS
CA_38C	16QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.22	29.17	PASS
CA_38C	64QAM	75RB+75RB	37825+37975	75RB#0	75RB#0	28.21	29.23	PASS
CA_38C	QPSK	75RB+75RB	37925+38075	75RB#0	75RB#0	28.22	29.20	PASS
CA_38C	16QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.22	29.20	PASS
CA_38C	64QAM	75RB+75RB	37925+38075	75RB#0	75RB#0	28.21	29.23	PASS
CA_38C	QPSK	75RB+75RB	38025+38175	75RB#0	75RB#0	28.21	29.20	PASS
CA_38C	16QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.22	29.20	PASS
CA_38C	64QAM	75RB+75RB	38025+38175	75RB#0	75RB#0	28.21	29.23	PASS
CA_38C	QPSK	100RB+100RB	37850+38048	100RB#0	100RB#0	37.41	38.91	PASS
CA_38C	16QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.43	38.89	PASS
CA_38C	64QAM	100RB+100RB	37850+38048	100RB#0	100RB#0	37.45	38.91	PASS
CA_38C	QPSK	100RB+100RB	37901+38099	100RB#0	100RB#0	37.41	38.89	PASS
CA_38C	16QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.45	38.91	PASS
CA_38C	64QAM	100RB+100RB	37901+38099	100RB#0	100RB#0	37.43	38.91	PASS
CA_38C	QPSK	100RB+100RB	37952+38150	100RB#0	100RB#0	37.45	38.91	PASS
CA_38C	16QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.45	38.89	PASS
CA_38C	64QAM	100RB+100RB	37952+38150	100RB#0	100RB#0	37.45	38.95	PASS



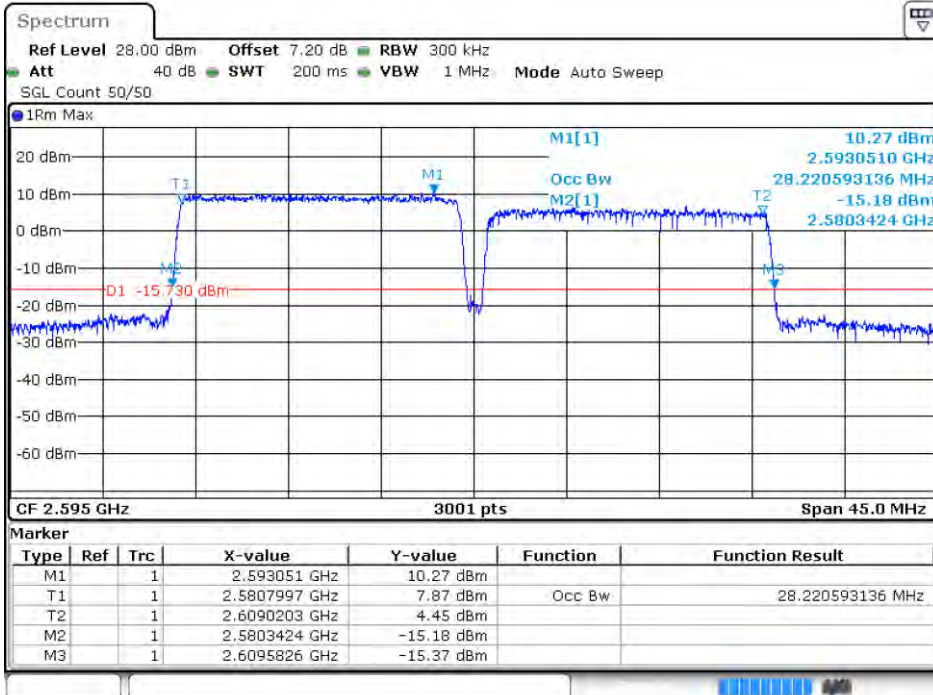


4.1 For LTE

4.1.1 Test Band = LTE Band CA_38C

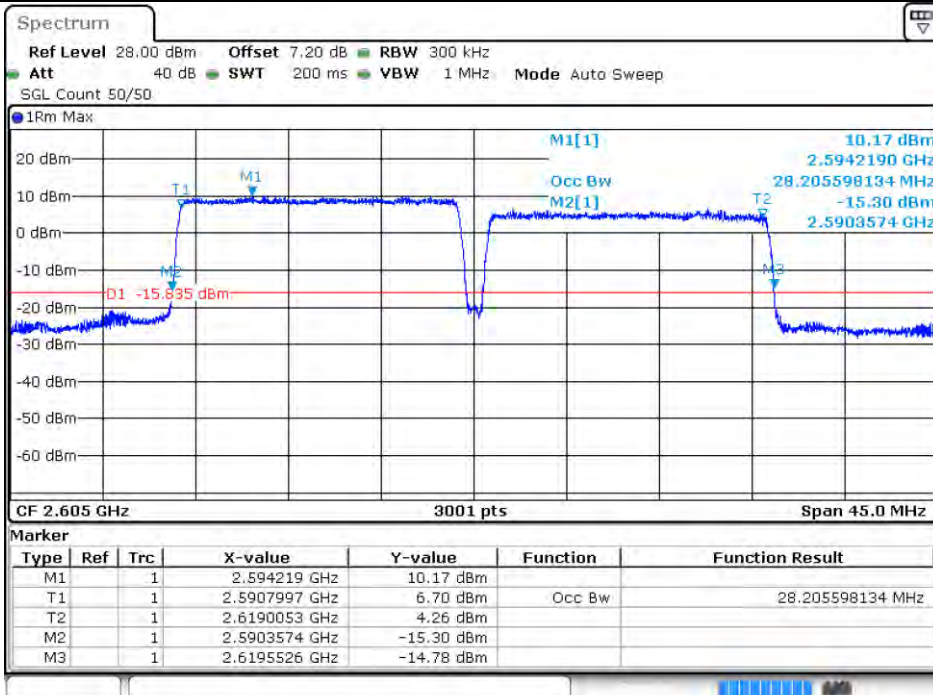


CA 38C 15MHz+15MHz QPSK 37925+38075 75RB#0+75RB#0



Date: 20.APR.2021 01:08:44

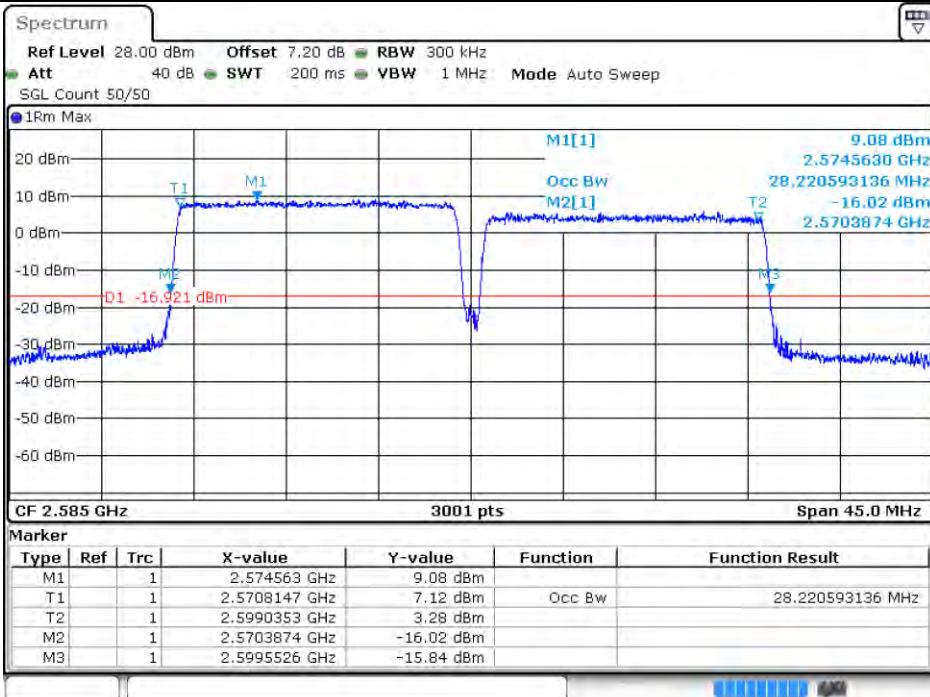
CA 38C 15MHz+15MHz QPSK 38025+38175 75RB#0+75RB#0



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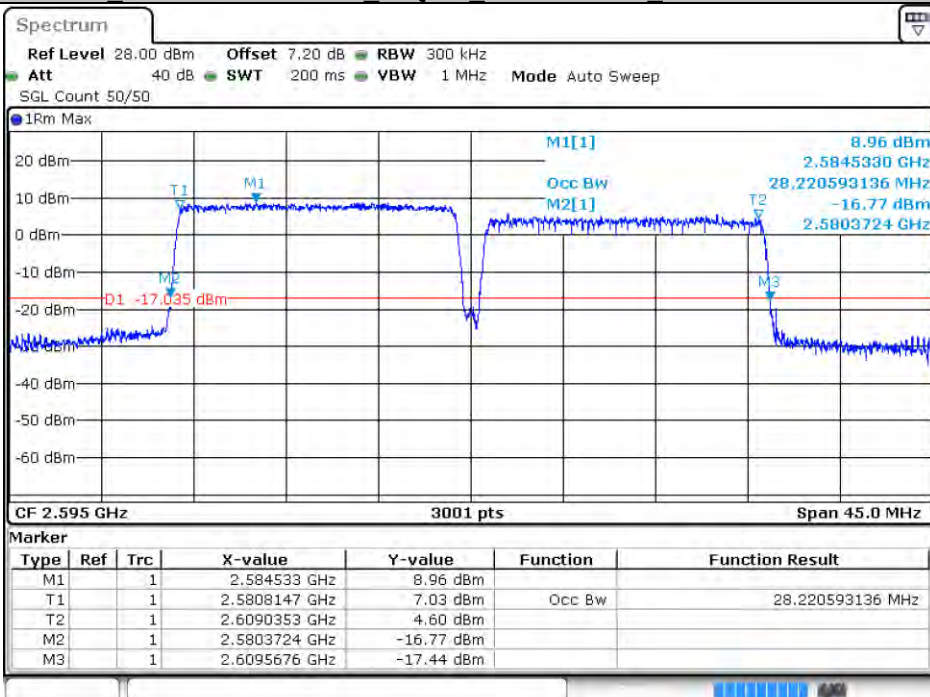


CA 38C 15MHz+15MHz 16QAM 37825+37975 75RB#0+75RB#0



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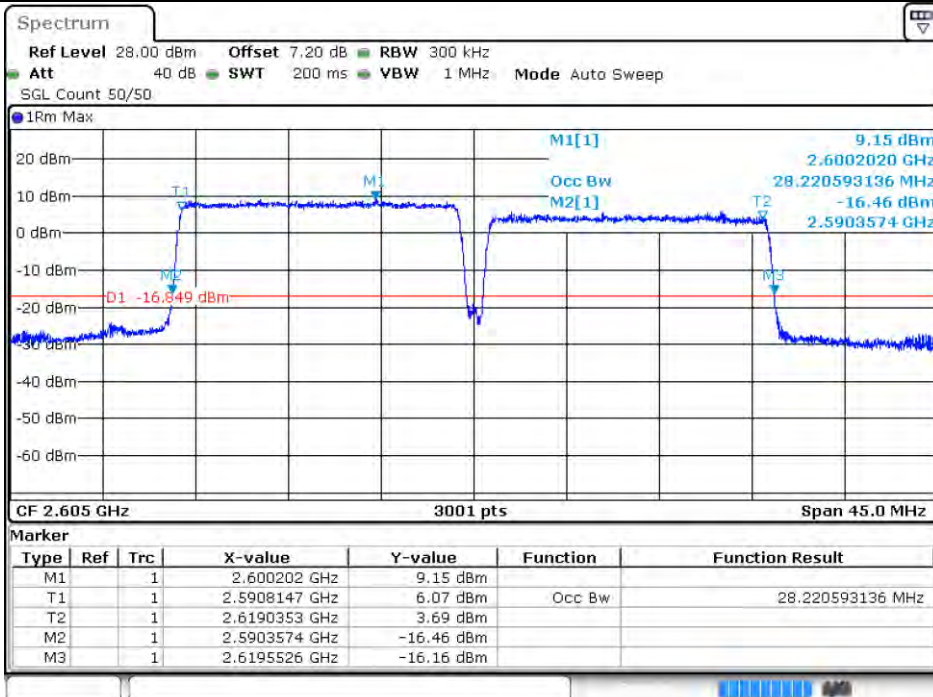
CA 38C 15MHz+15MHz 16QAM 37925+38075 75RB#0+75RB#0



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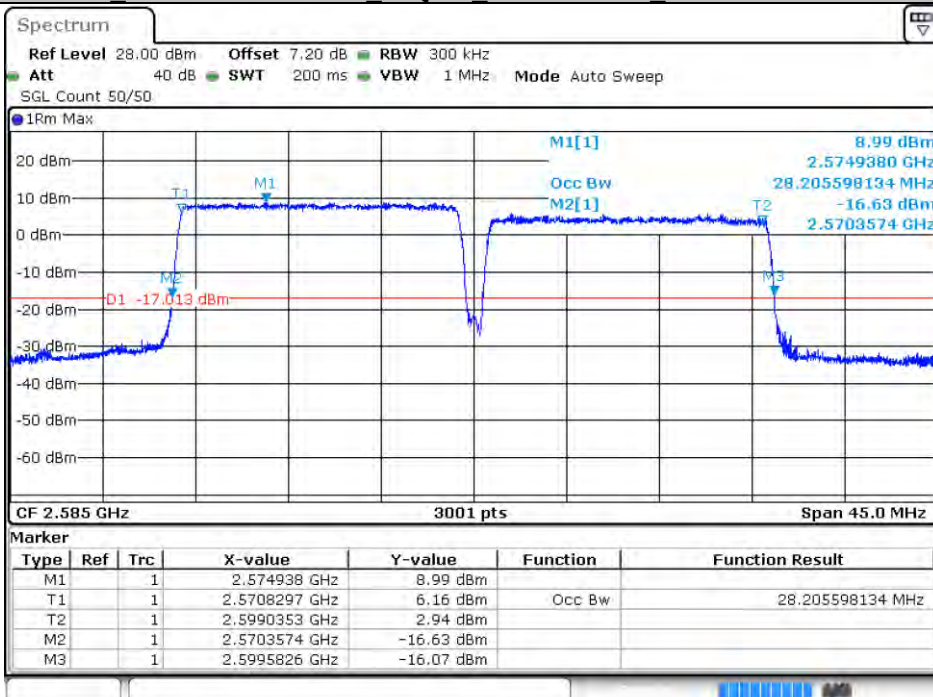


CA 38C 15MHz+15MHz 16QAM 38025+38175 75RB#0+75RB#0



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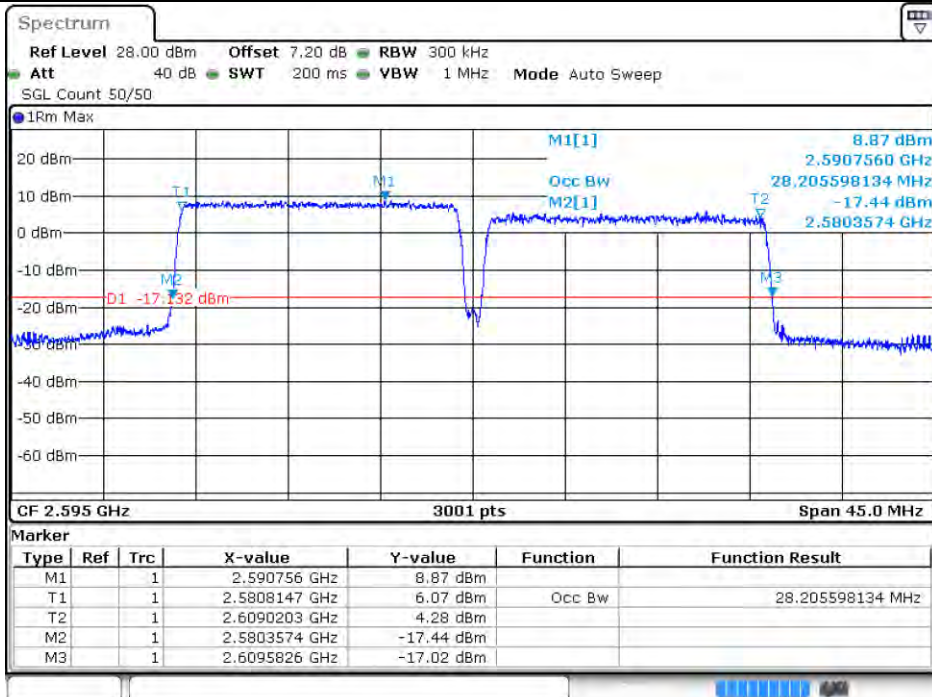
CA 38C 15MHz+15MHz 64QAM 37825+37975 75RB#0+75RB#0



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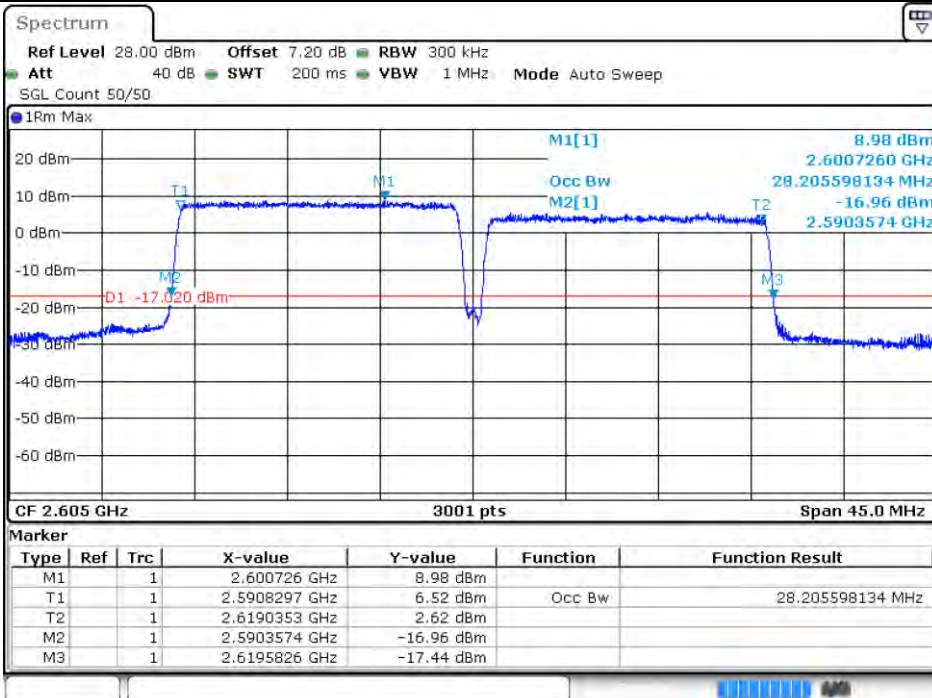


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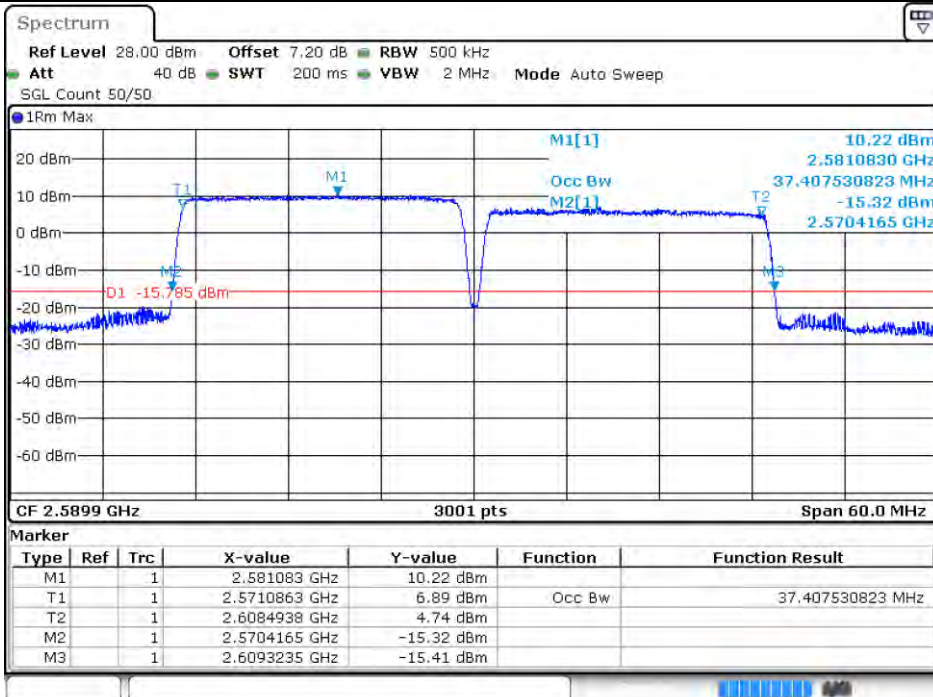
CA 38C 15MHz+15MHz 64QAM 38025+38175 75RB#0+75RB#0



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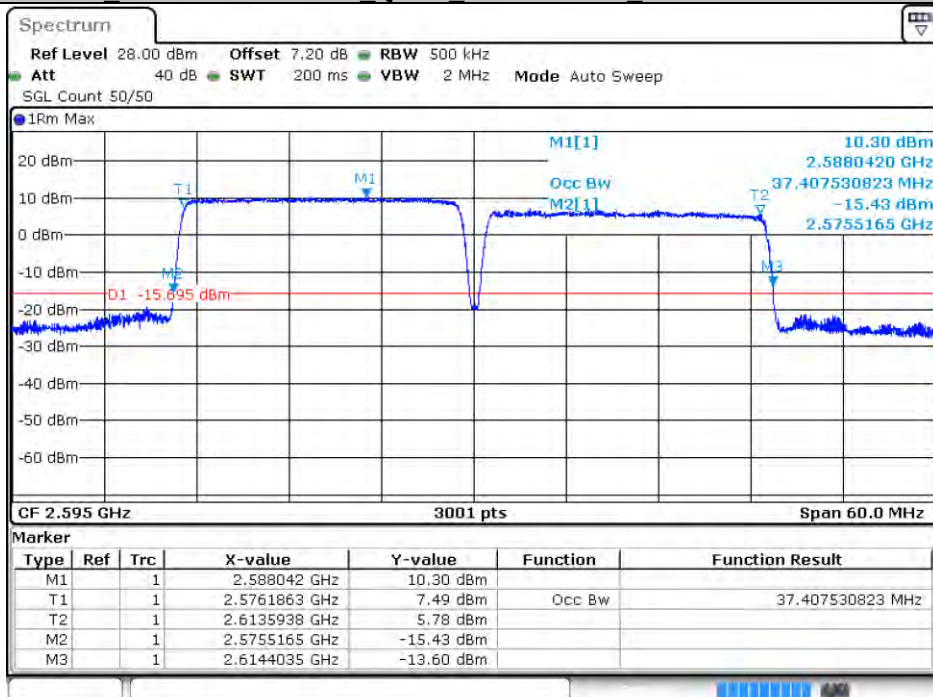


CA 38C 20MHz+20MHz QPSK 37850+38048 100RB#0+100RB#0



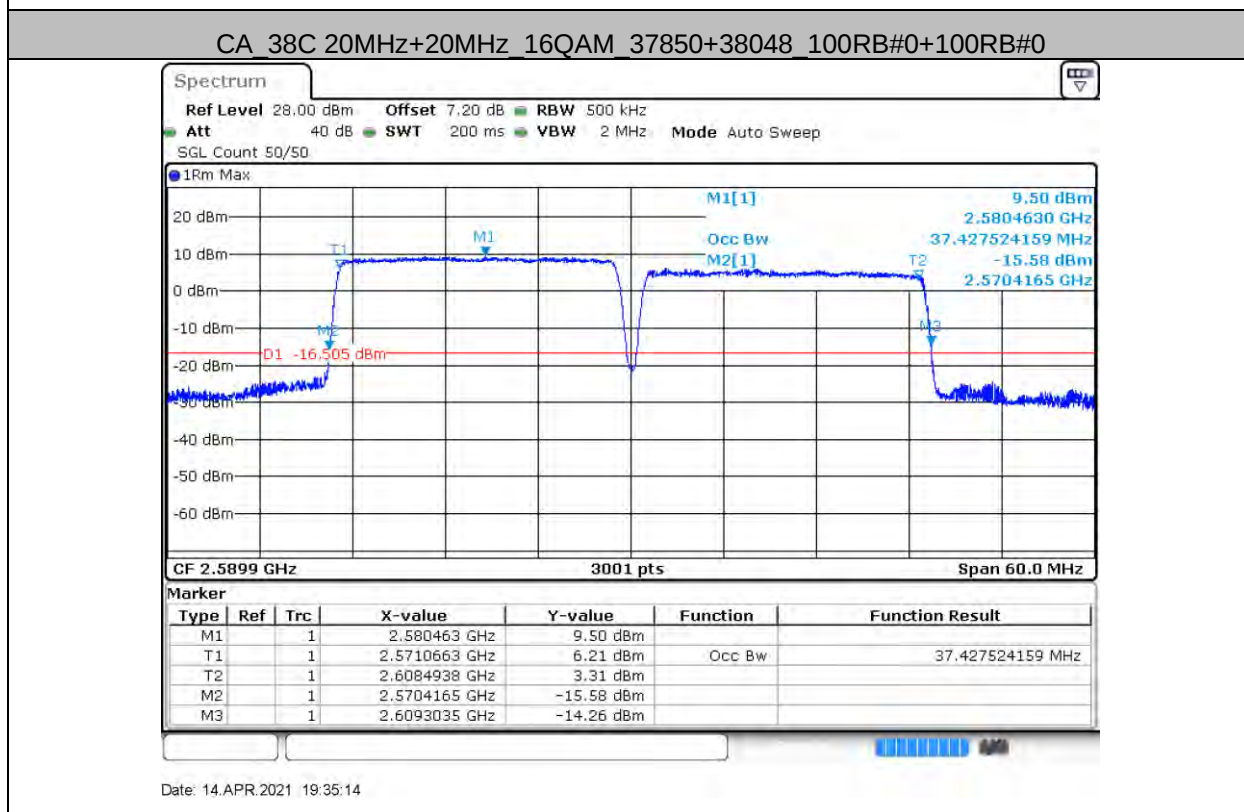
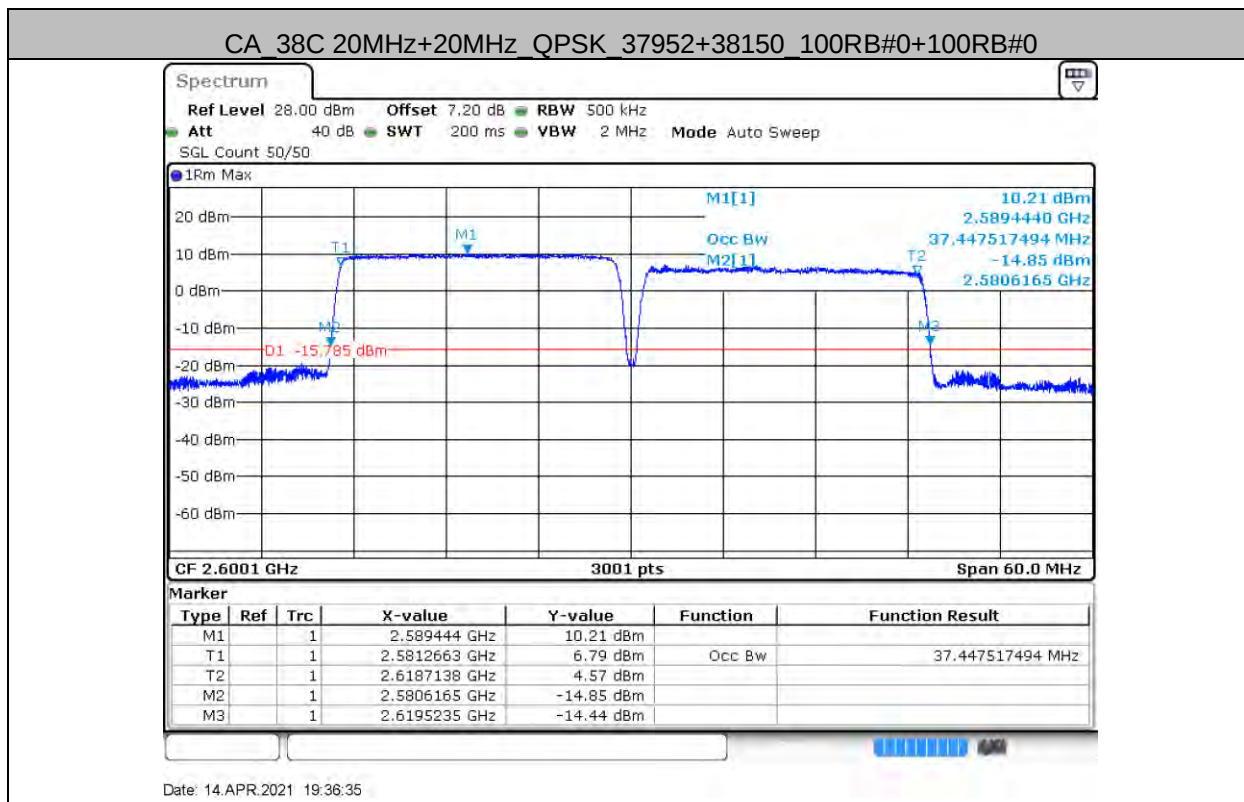
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CA 38C 20MHz+20MHz QPSK 37901+38099 100RB#0+100RB#0

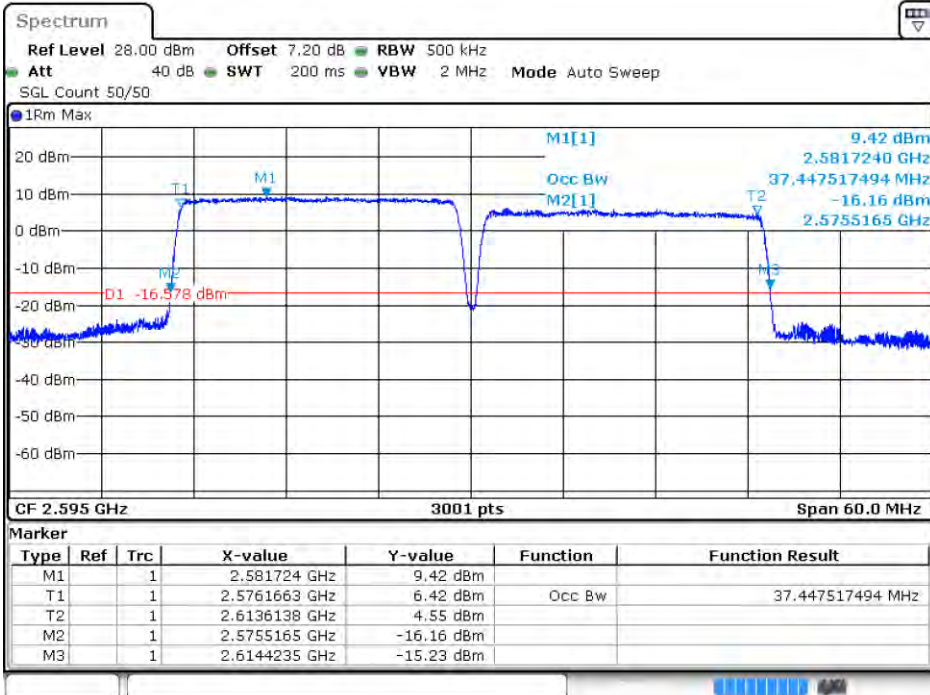


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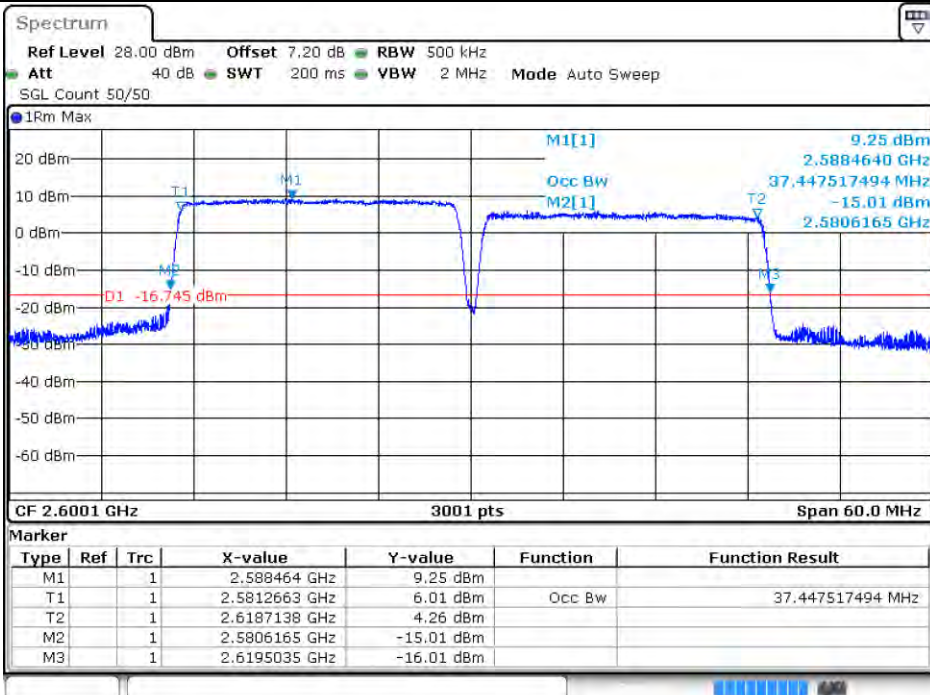


CA 38C 20MHz+20MHz 16QAM 37901+38099 100RB#0+100RB#0



Date: 14. APR. 2021 19:36:03

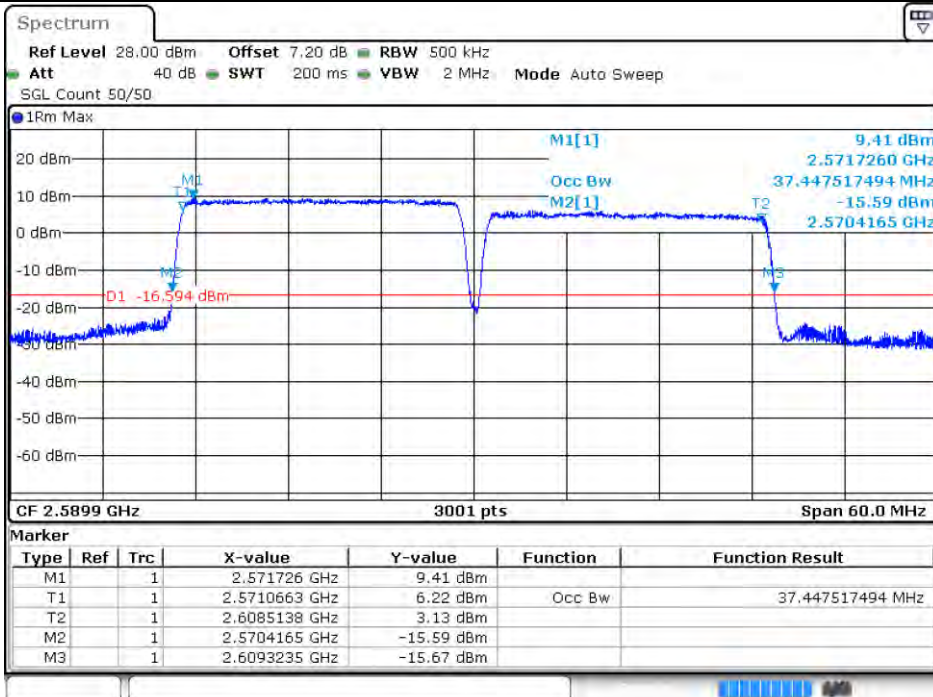
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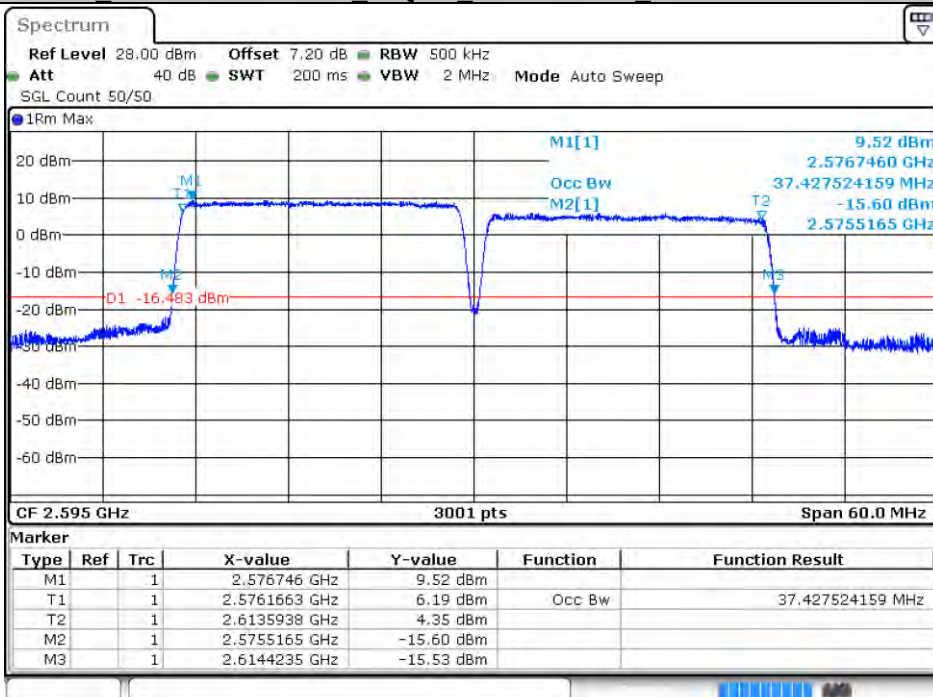


CA 38C 20MHz+20MHz 64QAM 37850+38048 100RB#0+100RB#0



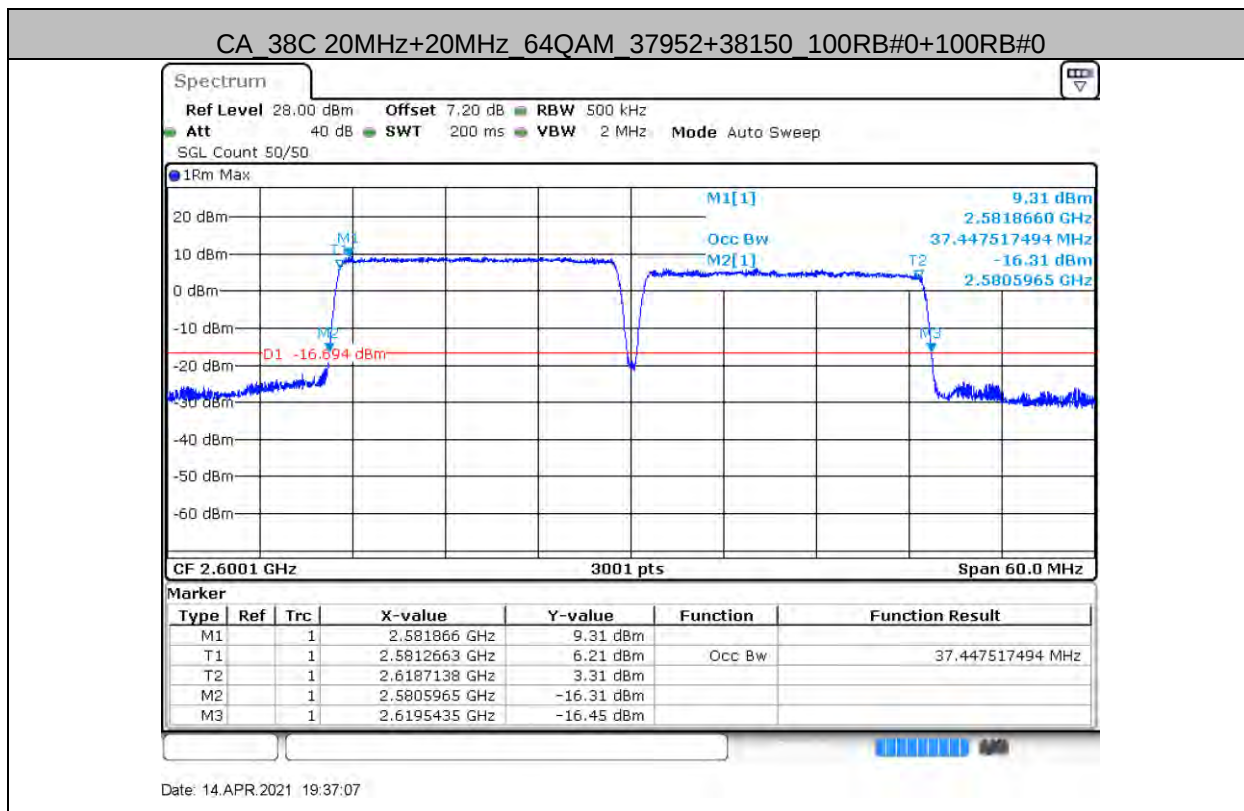
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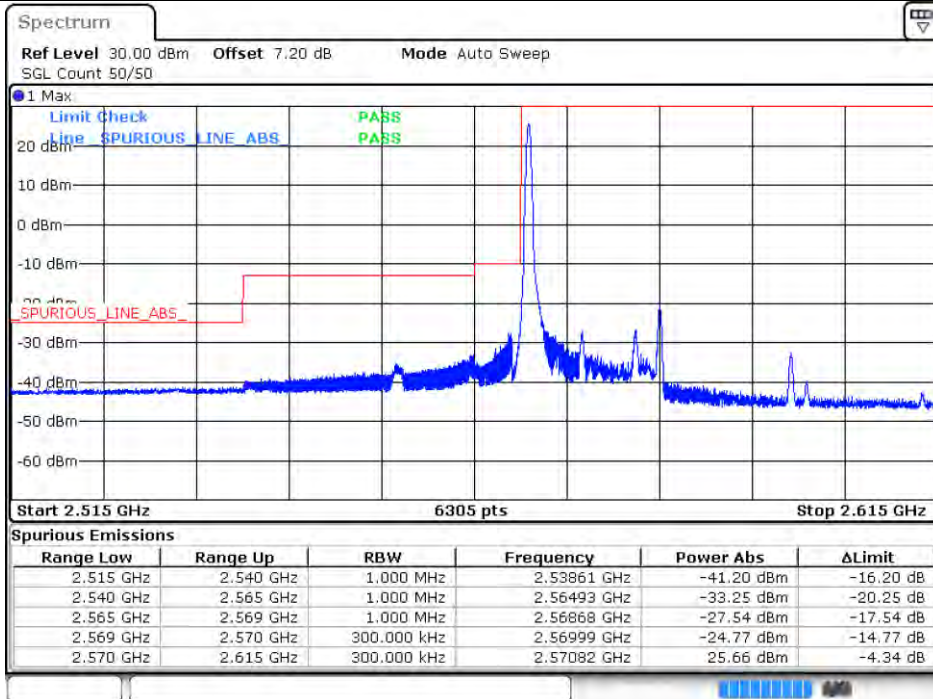


5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE Band CA_38C

CA_38C 75RB+75RB QPSK 37825+37975 1RB#0+0RB#0



Date: 14.APR.2021 19:37:46



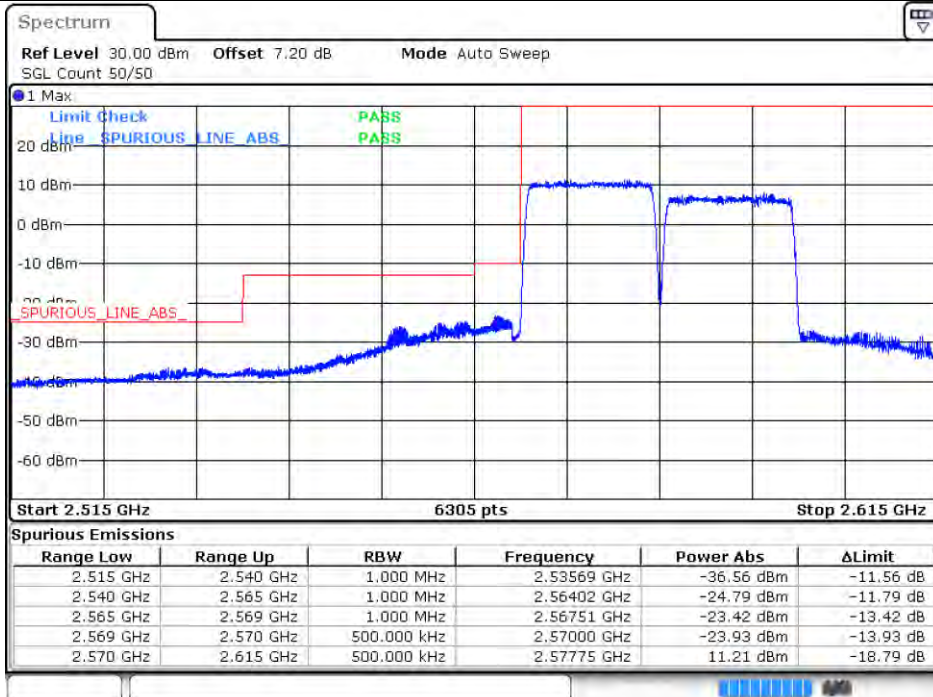
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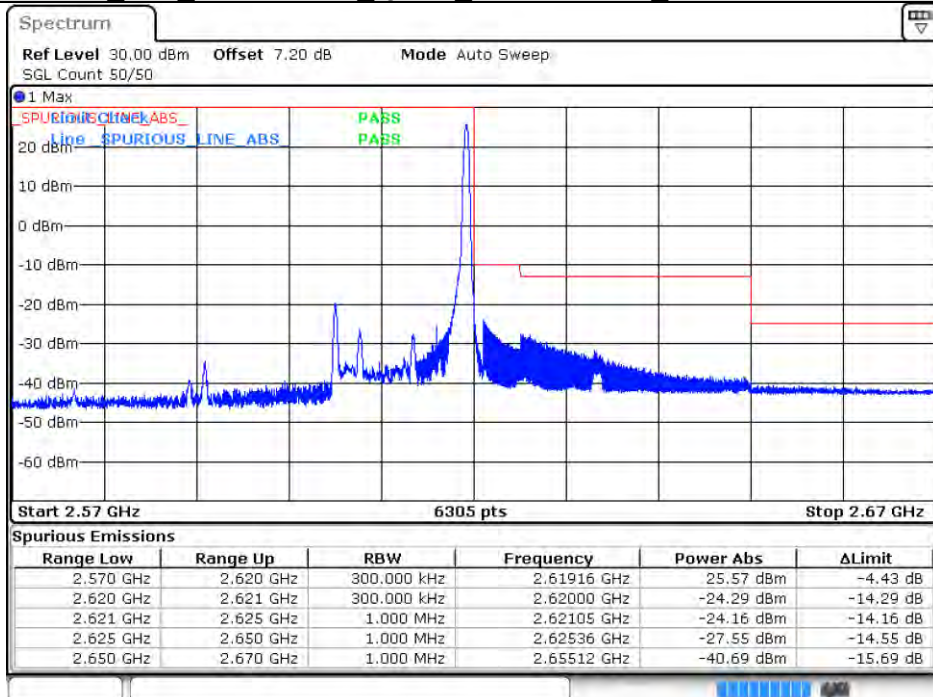
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CA_38C_75RB+75RB_QPSK_37825+37975_75RB#0+75RB#0



Date: 14.APR.2021 19:39:18

CA_38C_75RB+75RB_QPSK_38025+38175_0RB#0+1RB#74



Date: 14.APR.2021 19:40:42



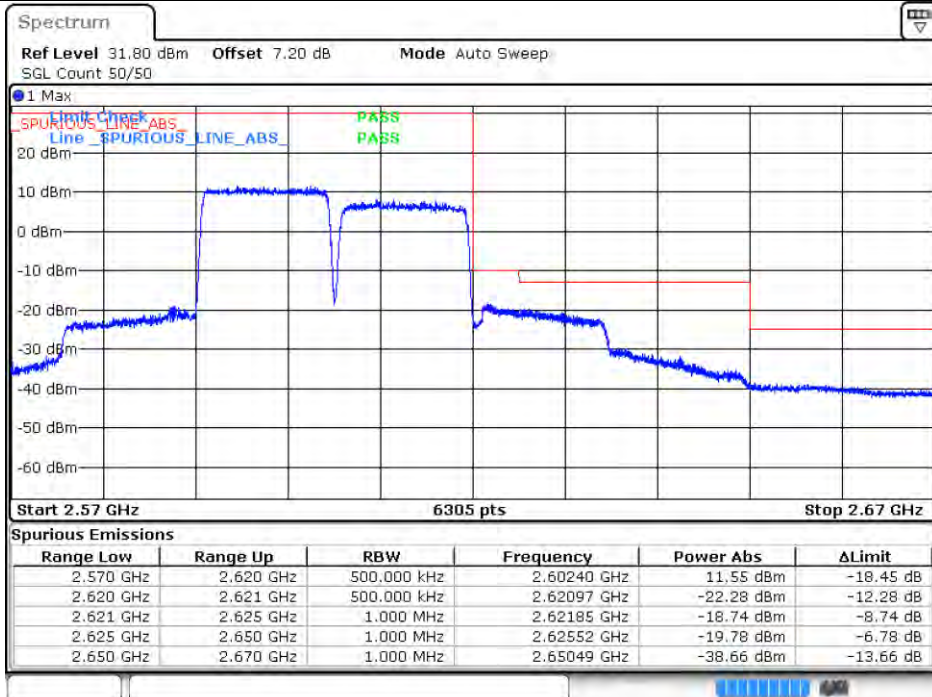
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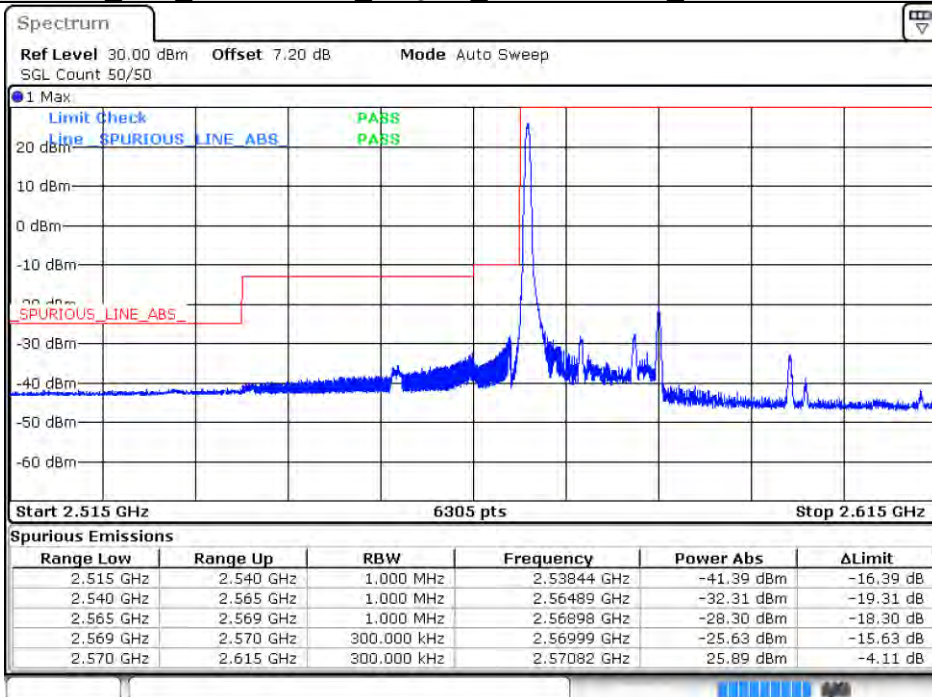
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CA_38C_75RB+75RB_QPSK_38025+38175_75RB#0+75RB#0



Date: 14.APR.2021 19:43:20

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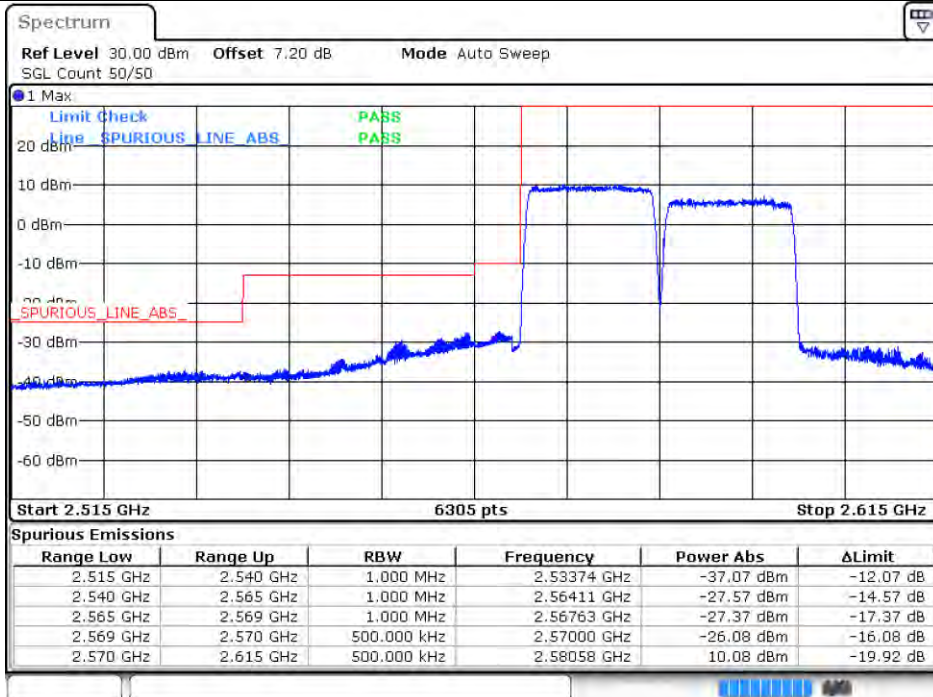


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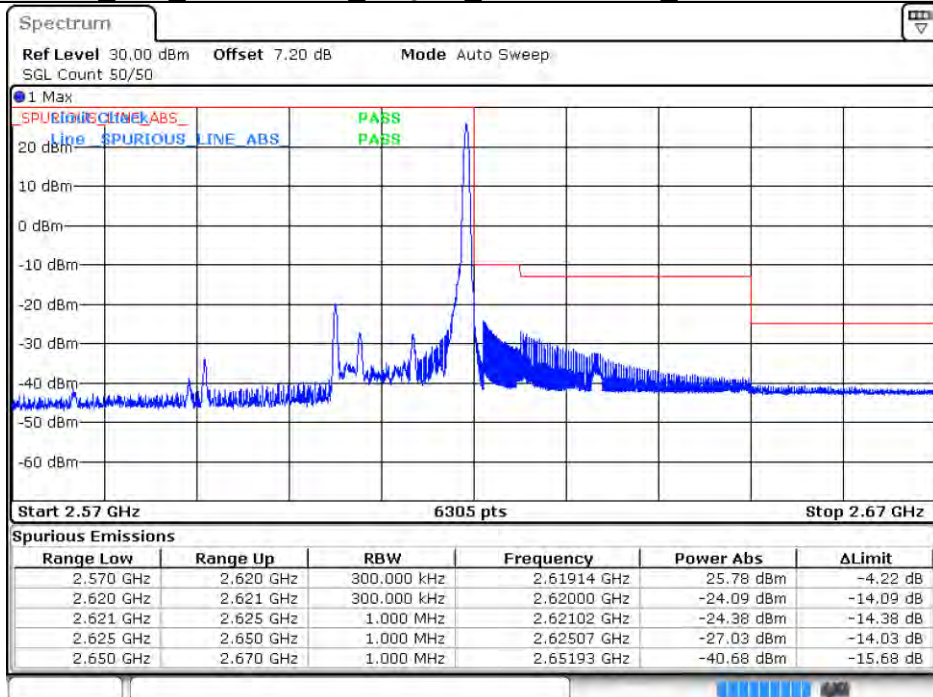
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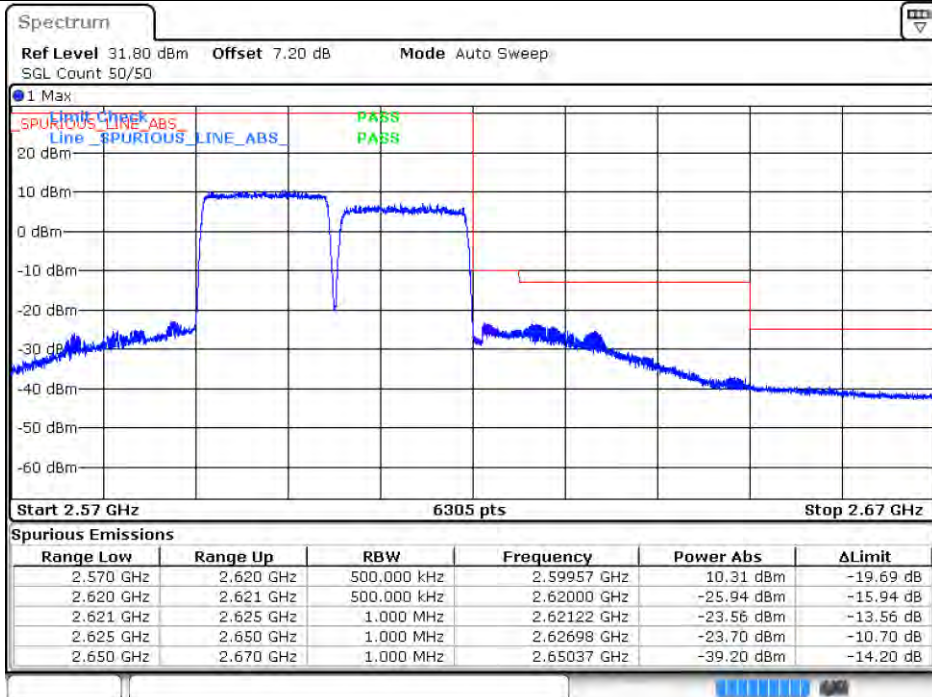
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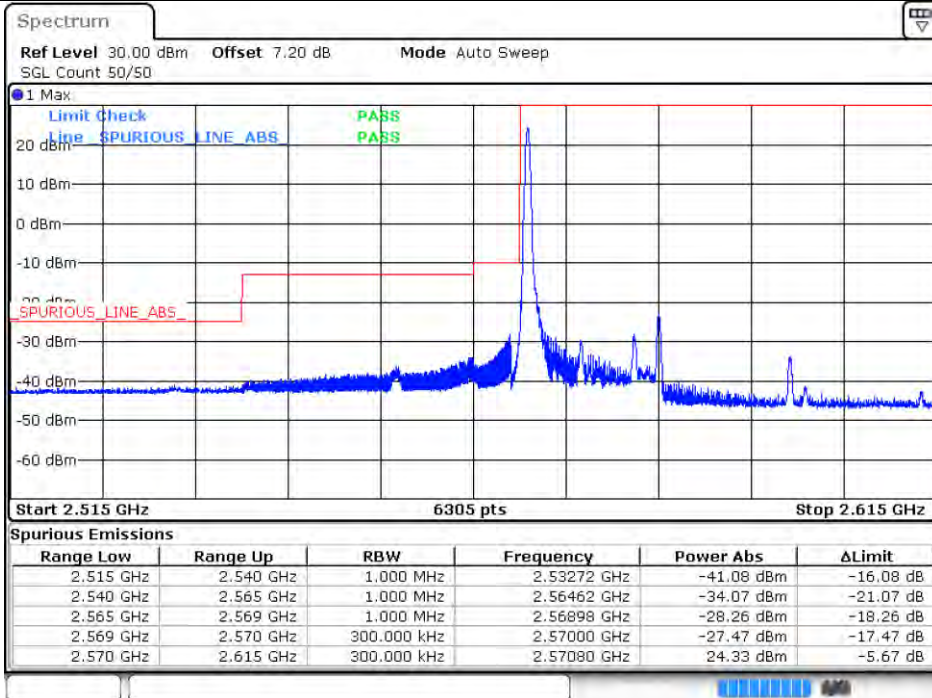


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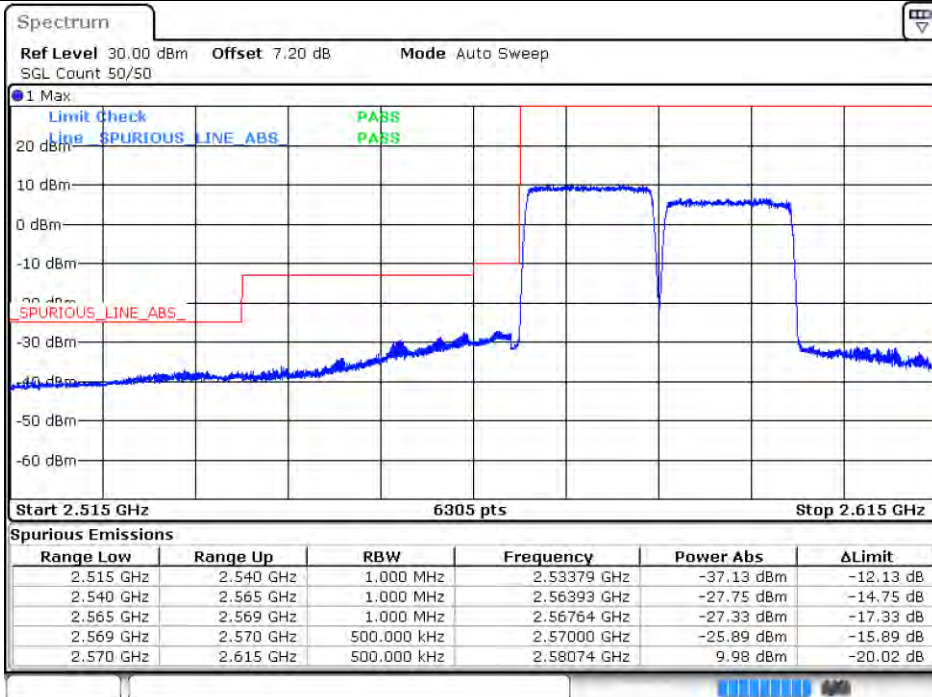


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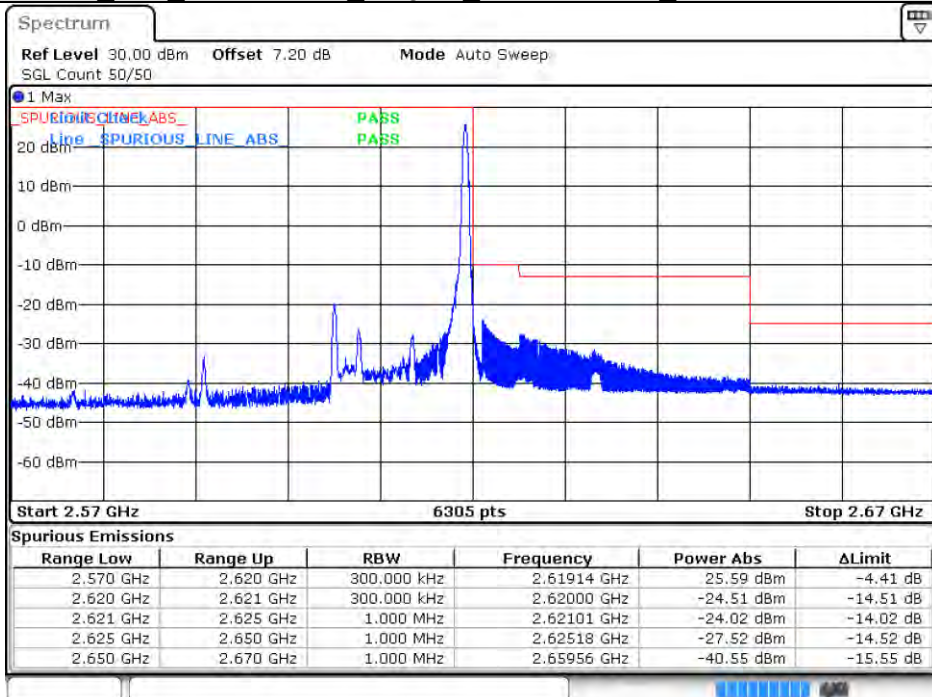
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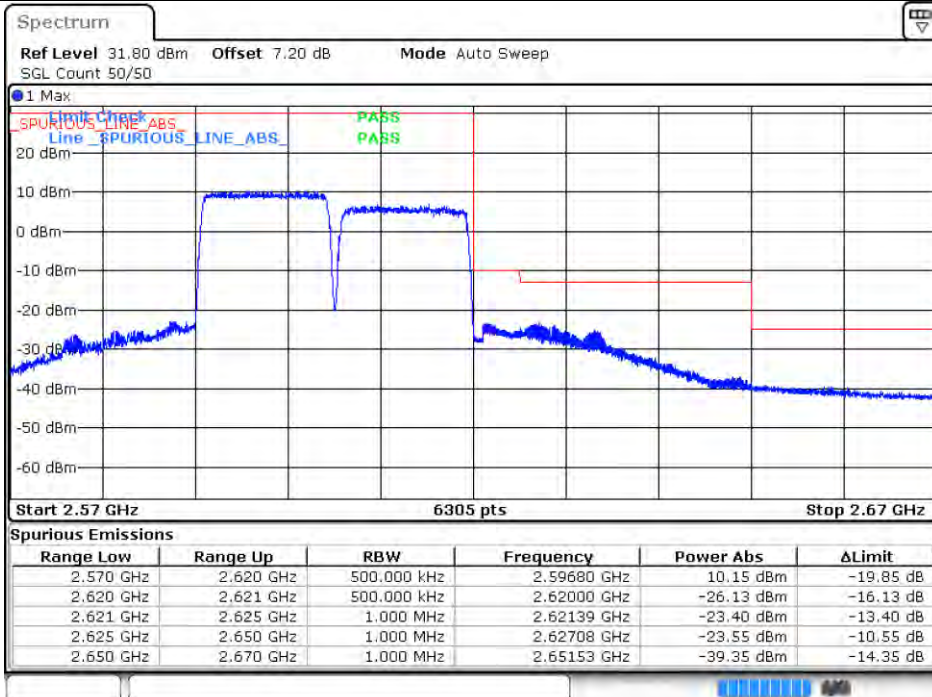
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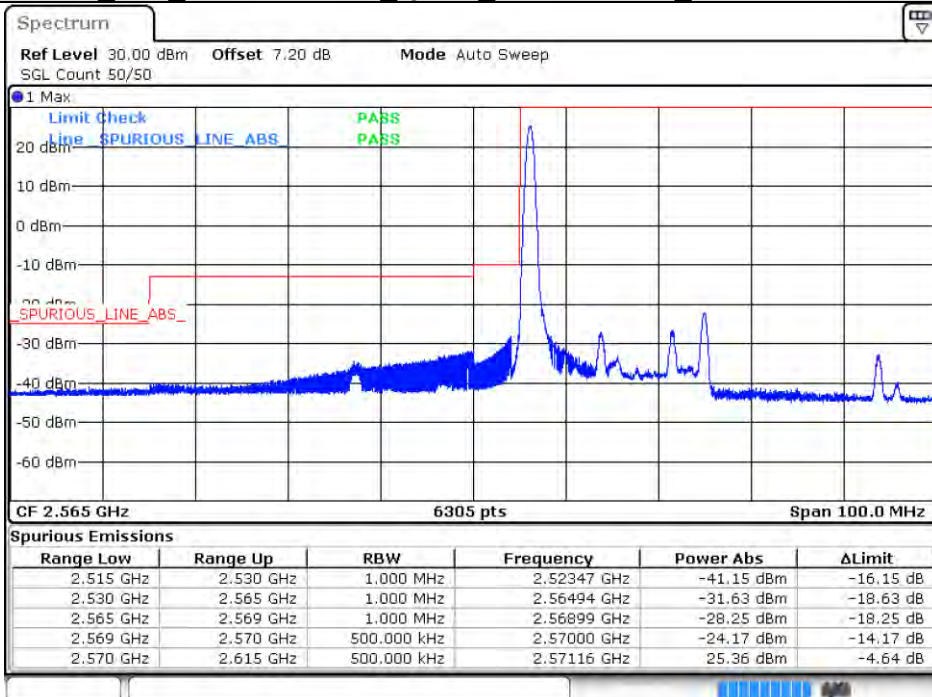


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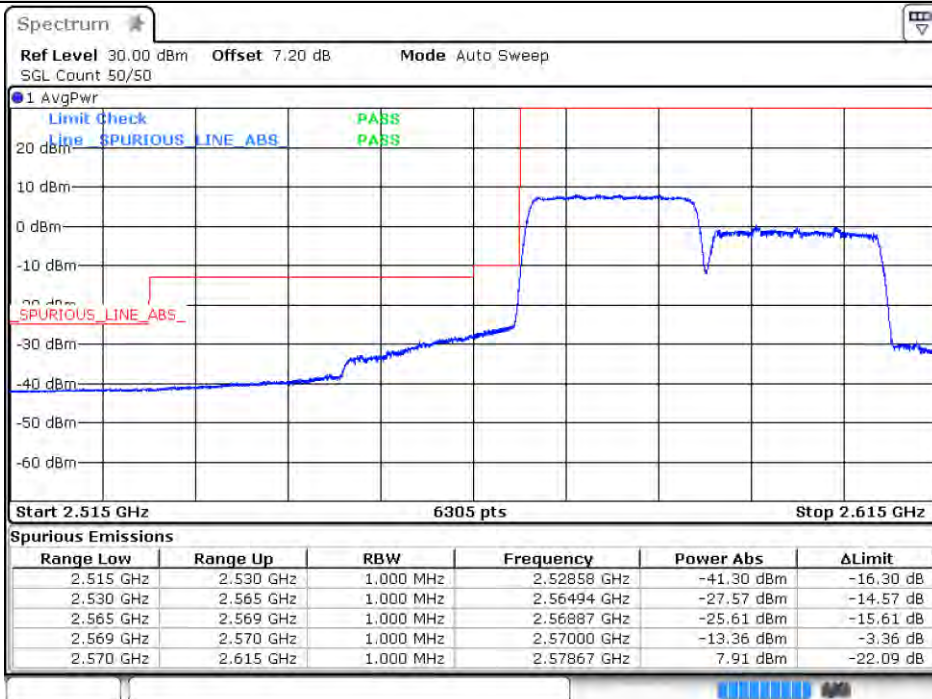
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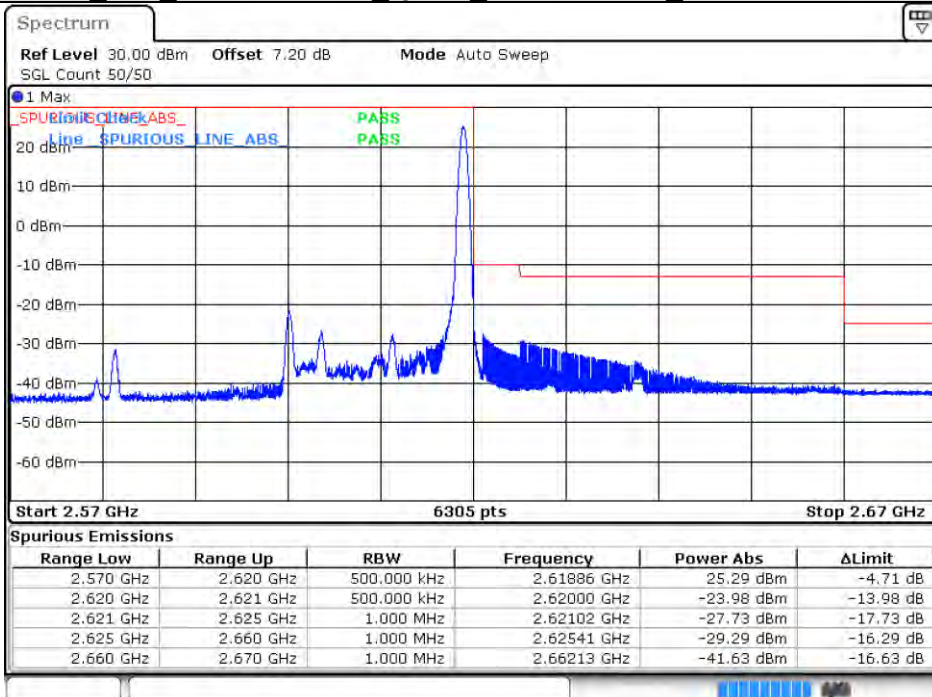
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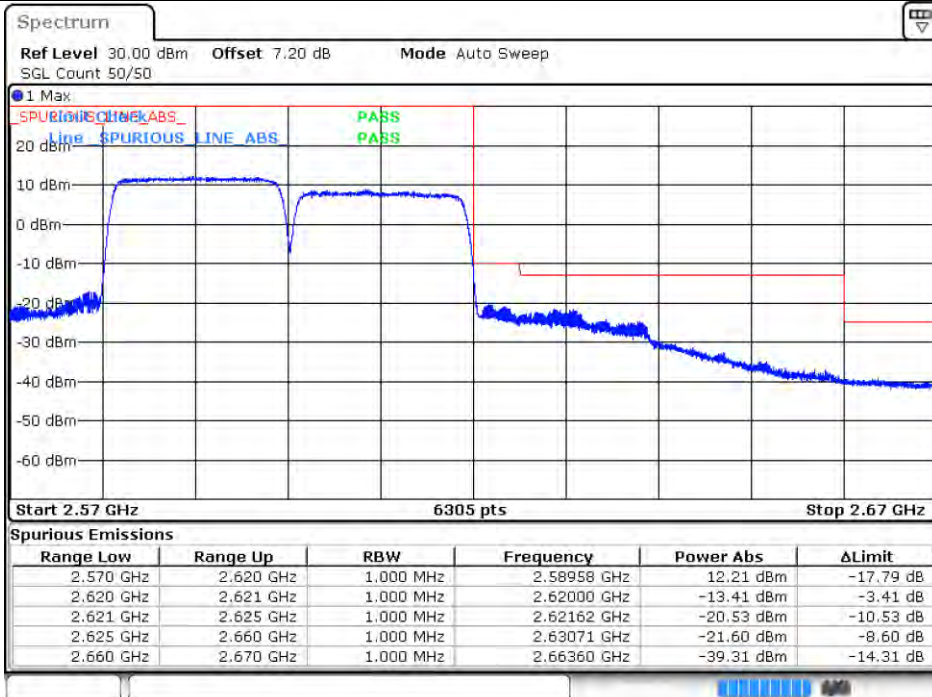
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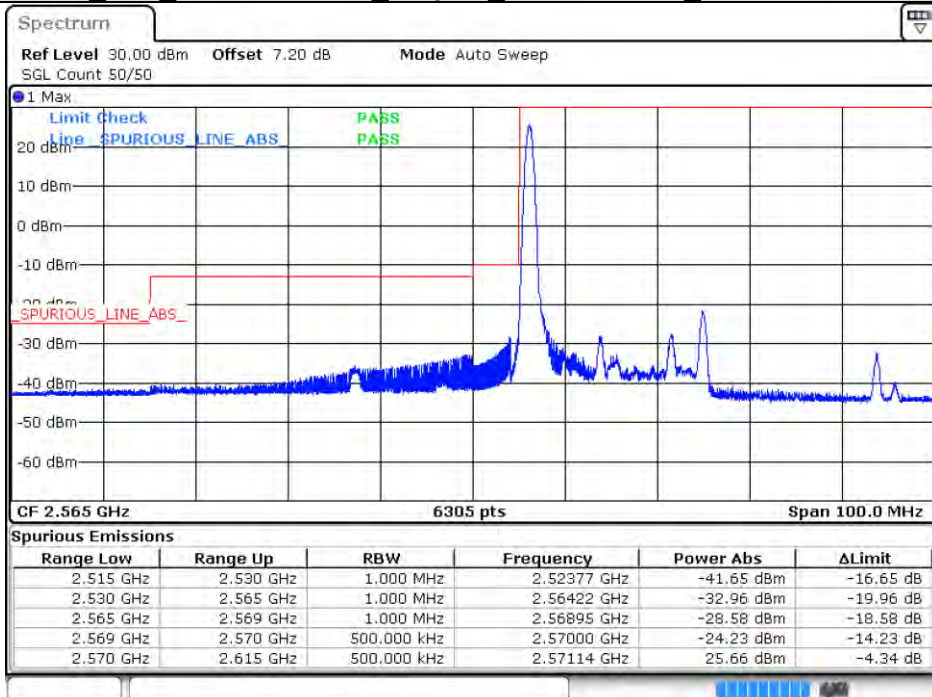


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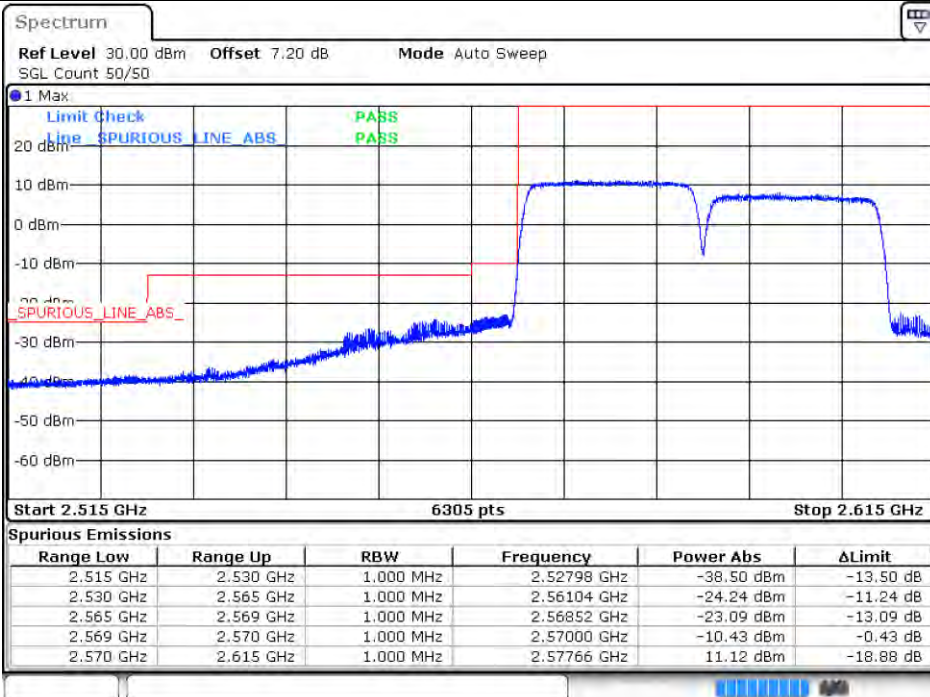
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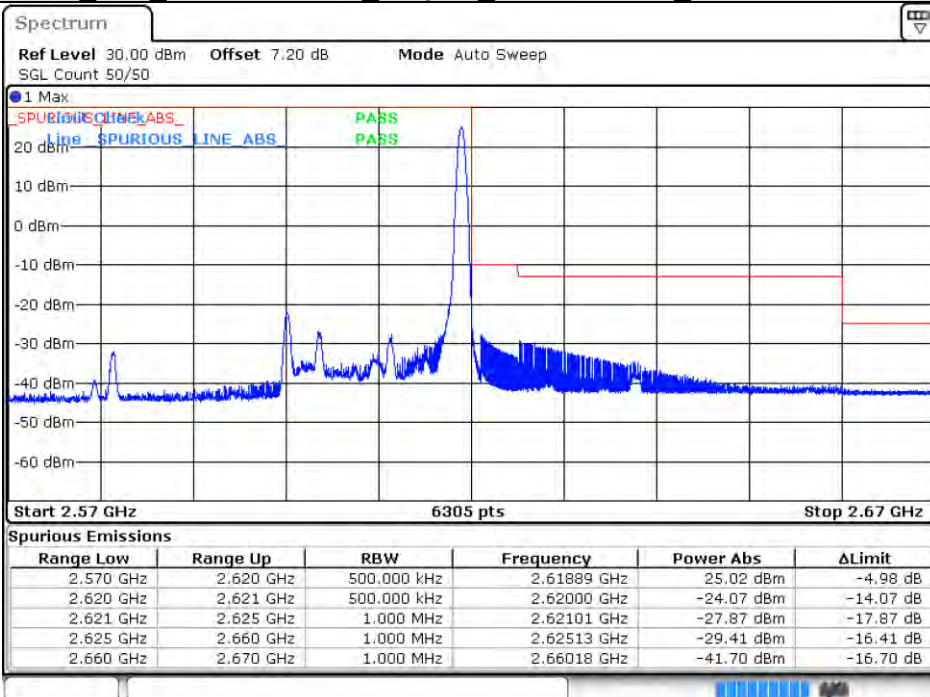


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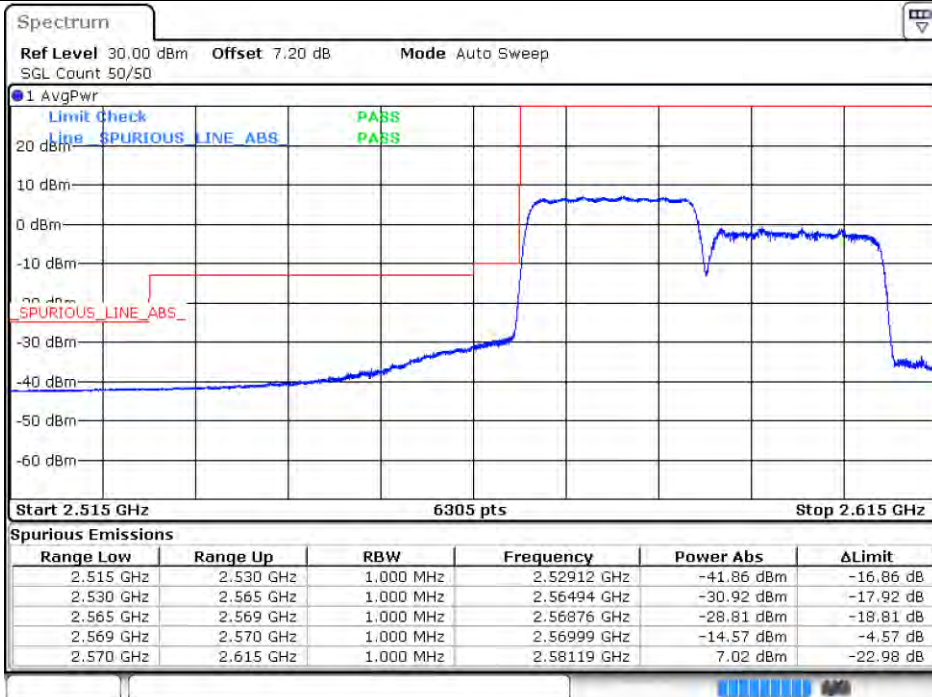
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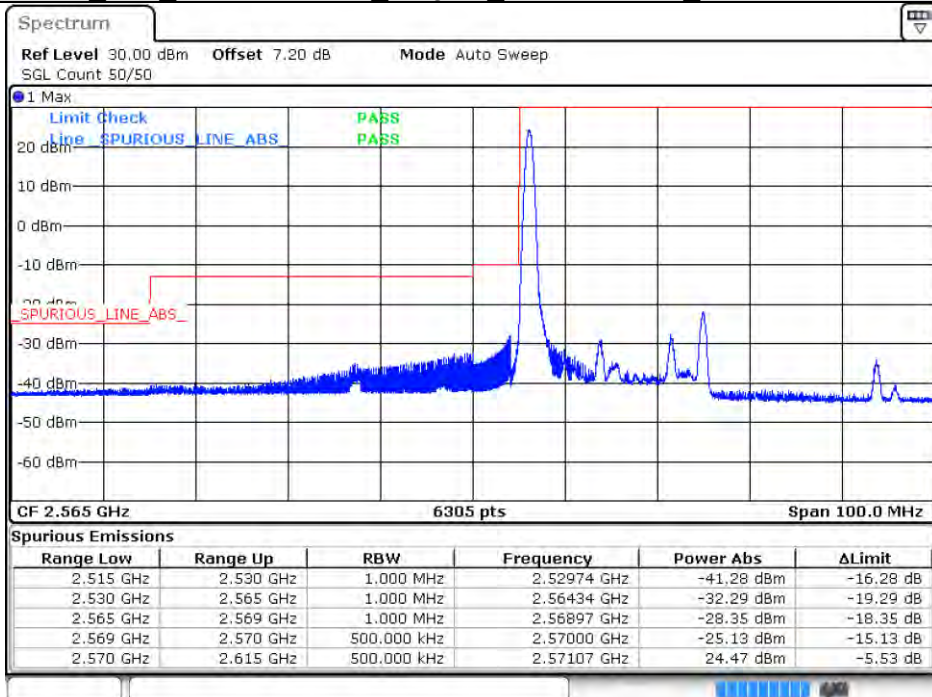


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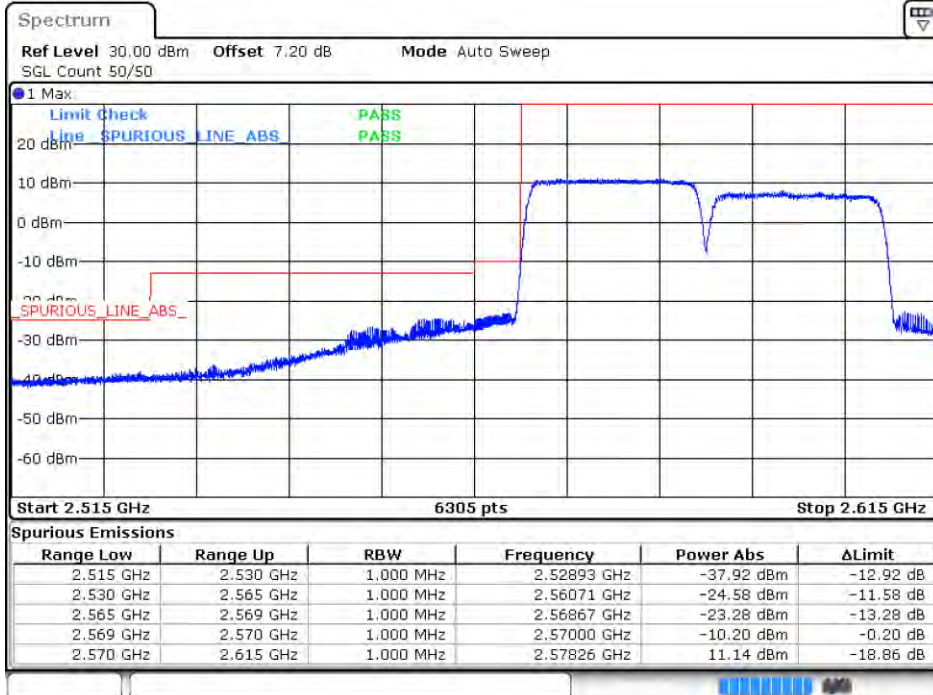
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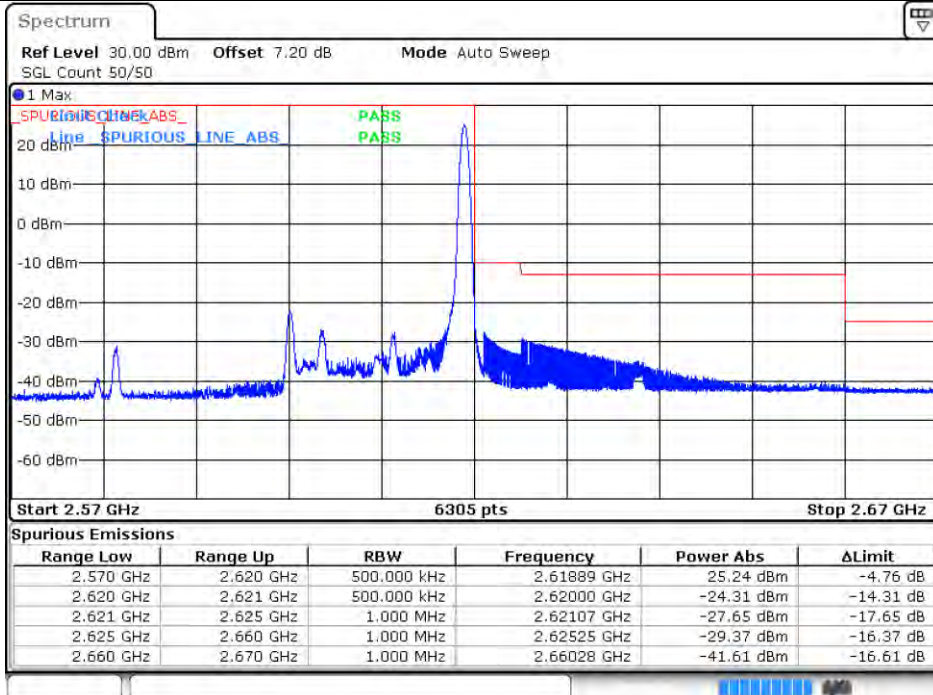


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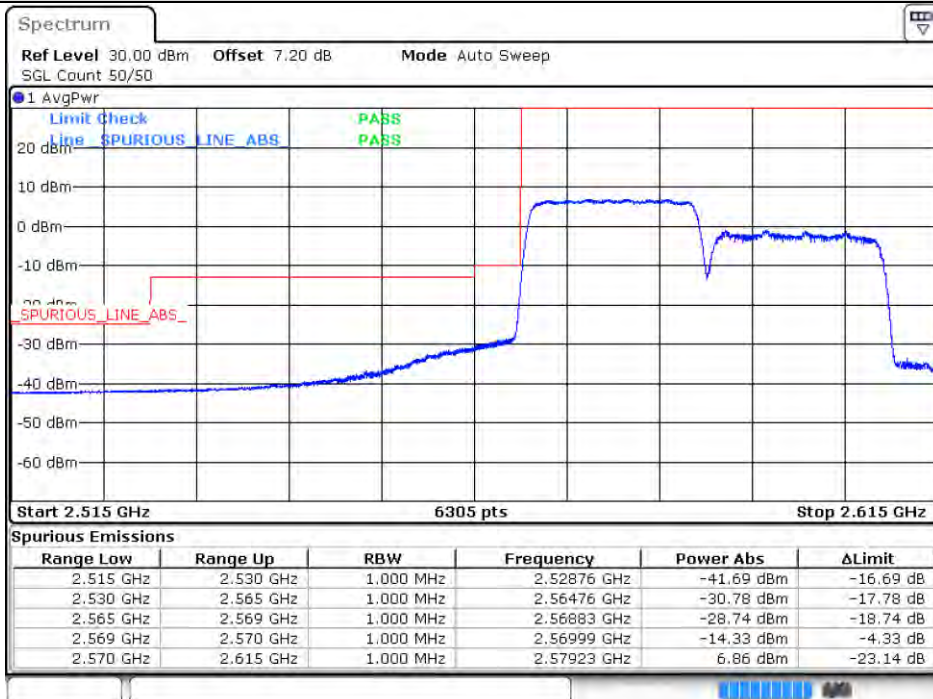
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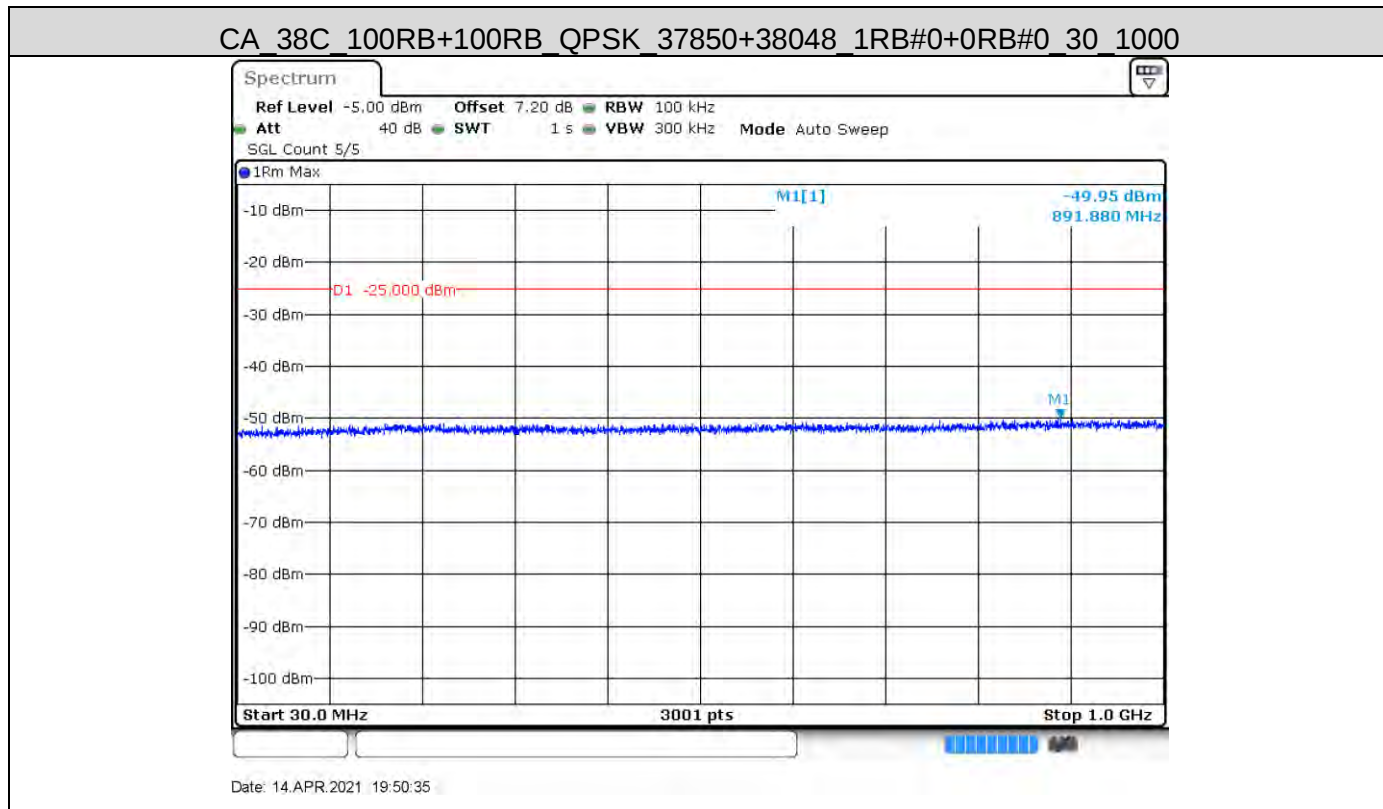
6 Spurious Emission at Antenna Terminal

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

Part I - Test Plots

6.1 For LTE

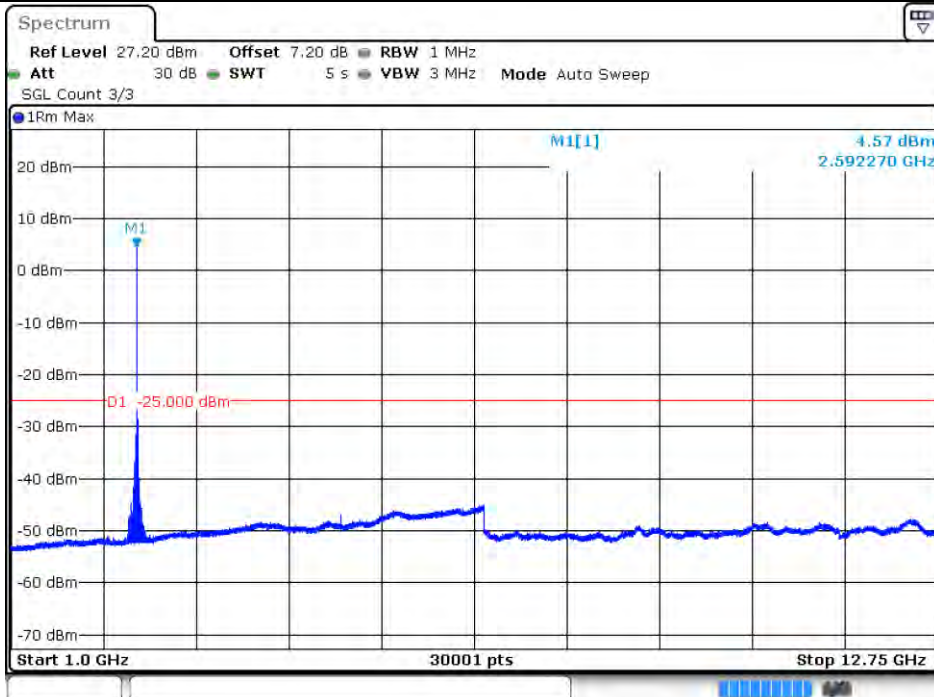
6.1.1 Test Band = LTE Band CA_38C



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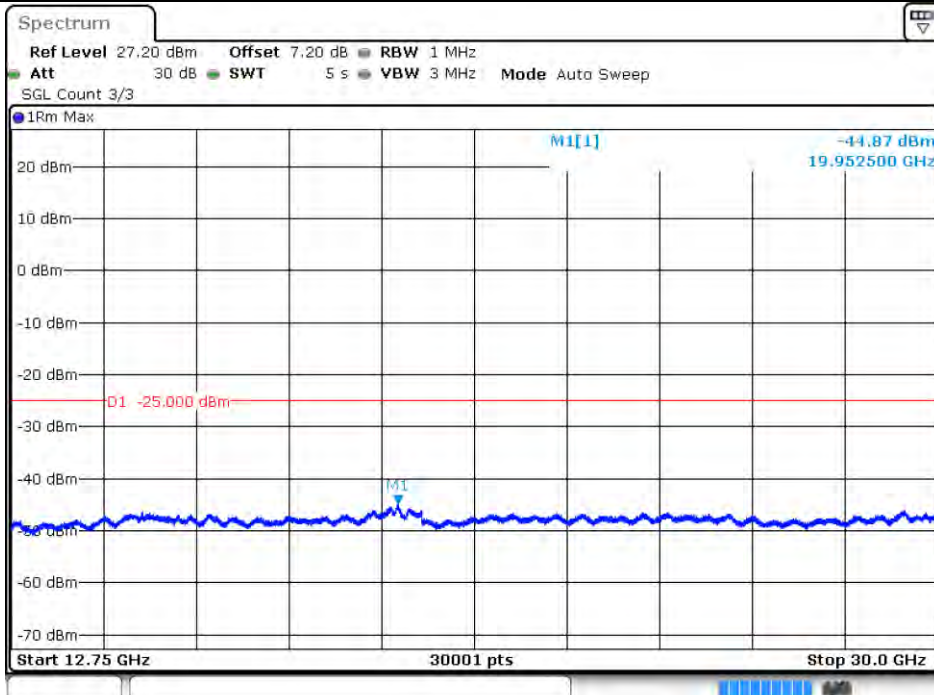
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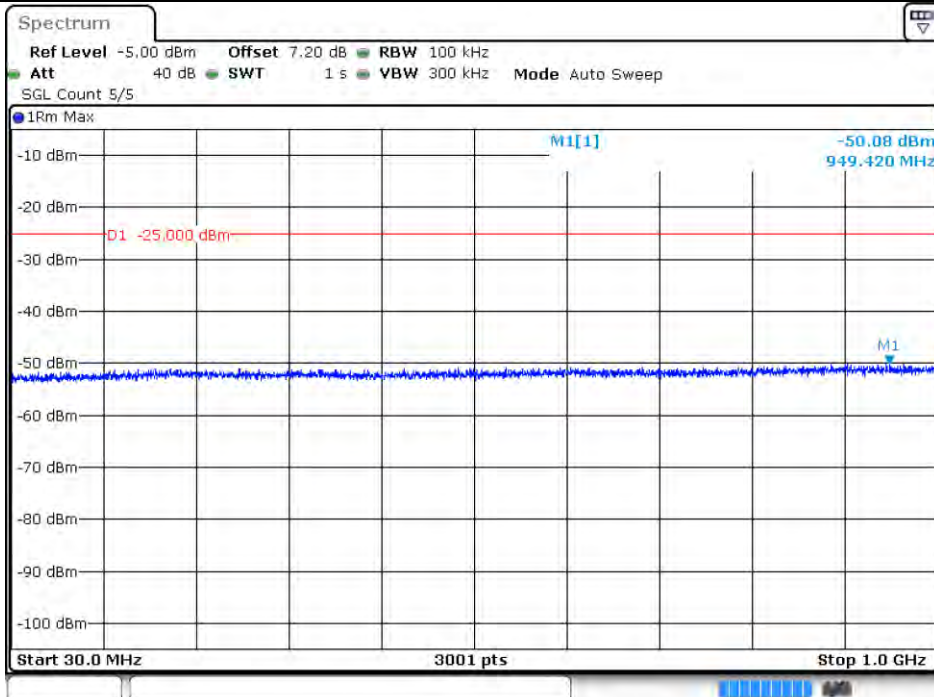


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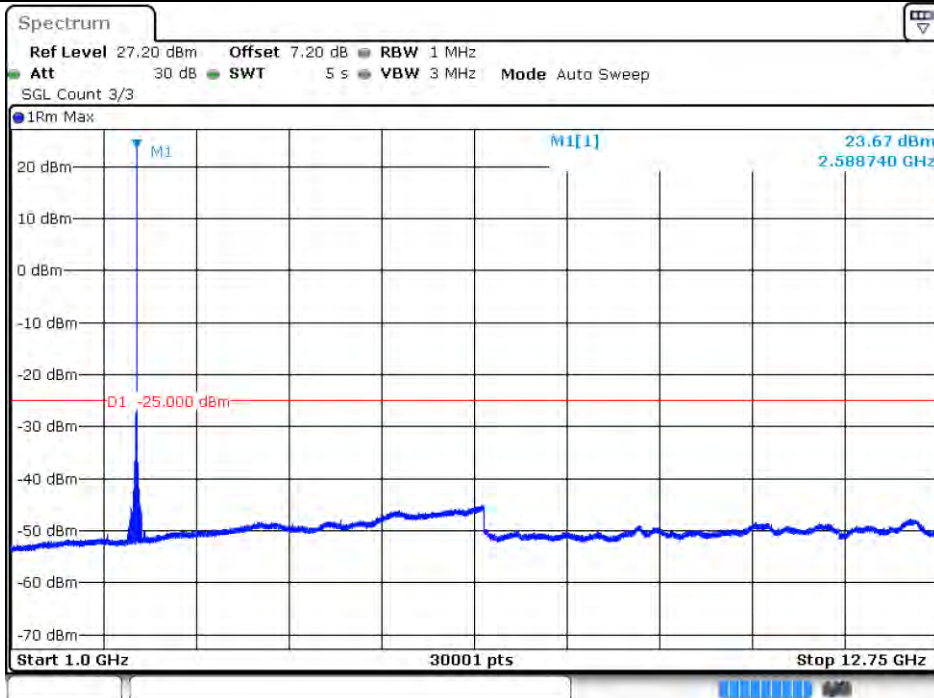


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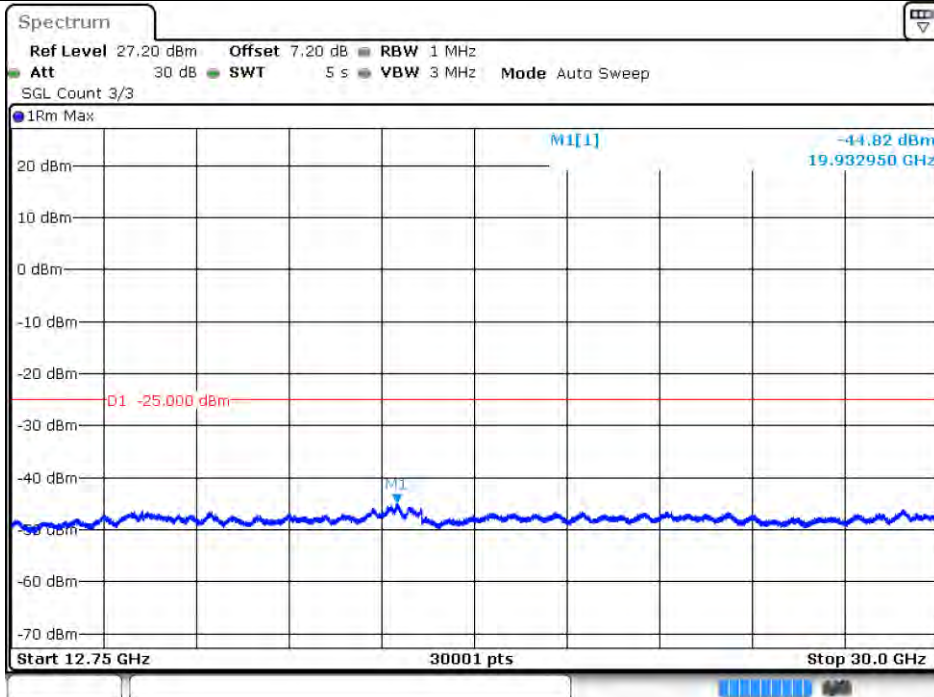
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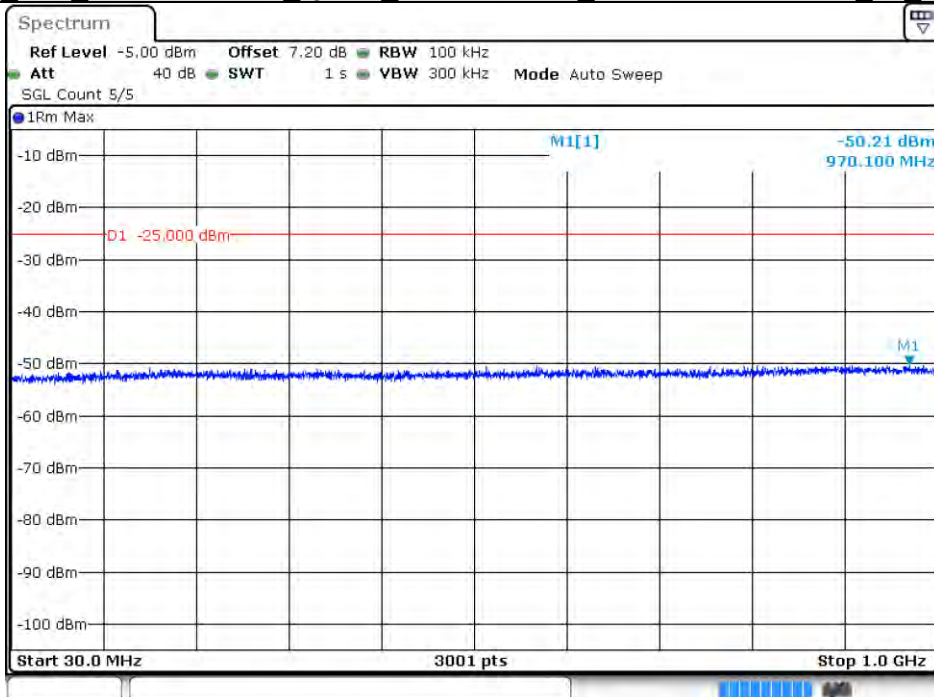


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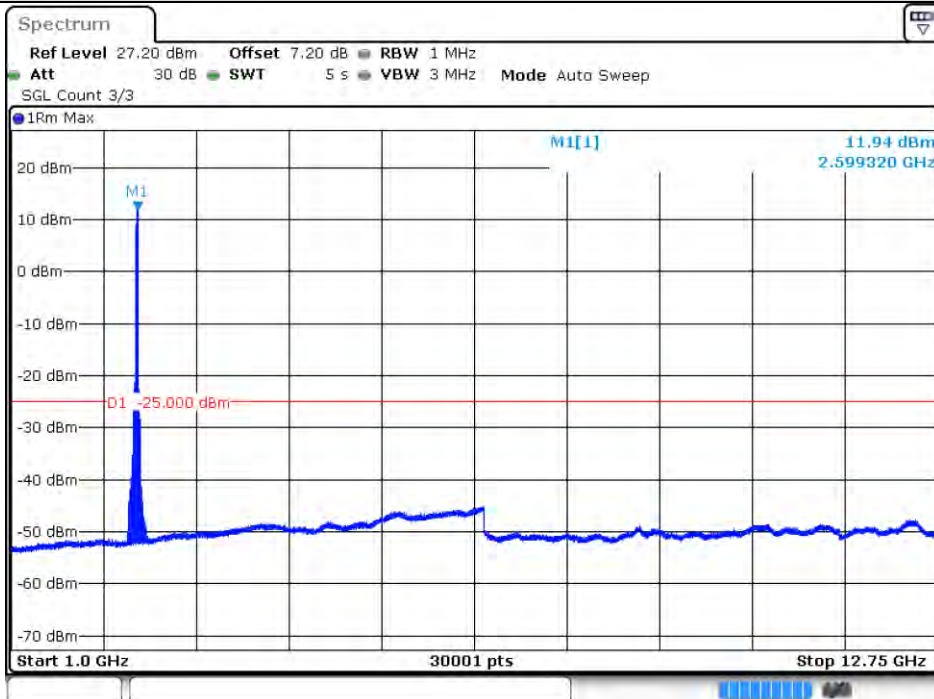


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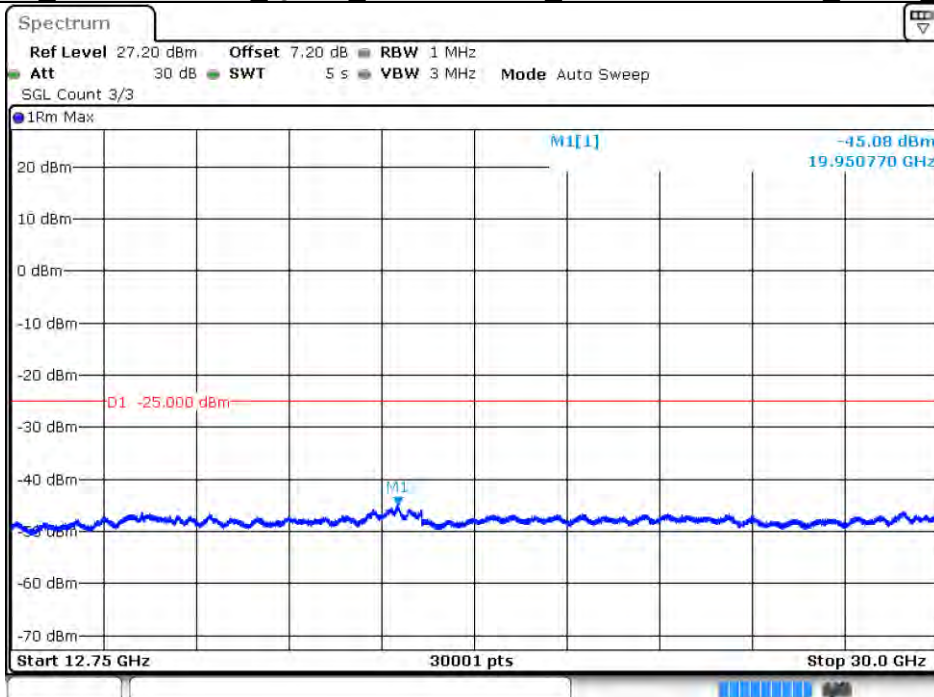
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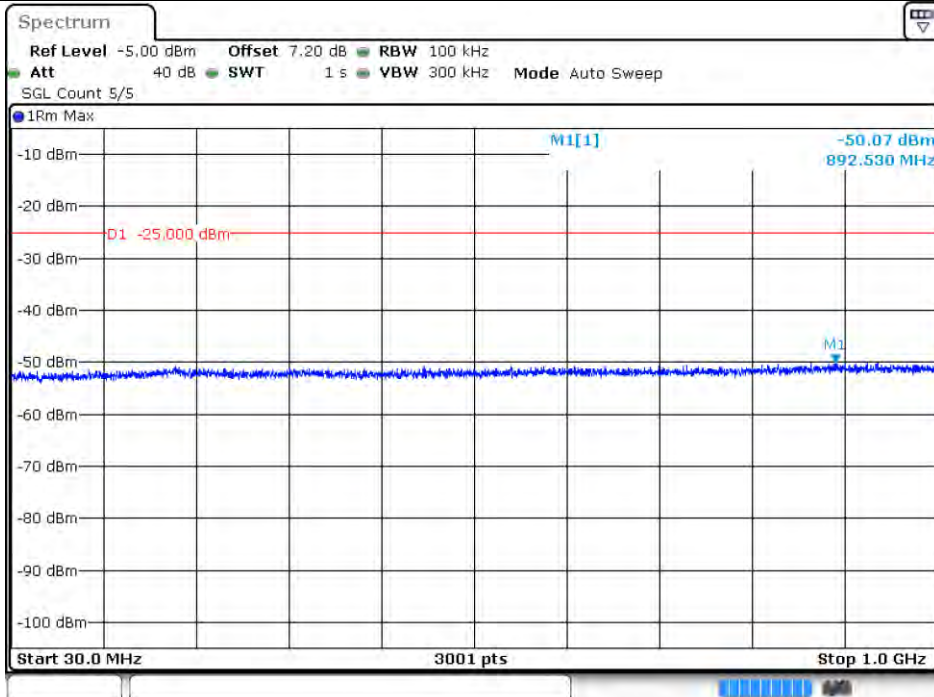


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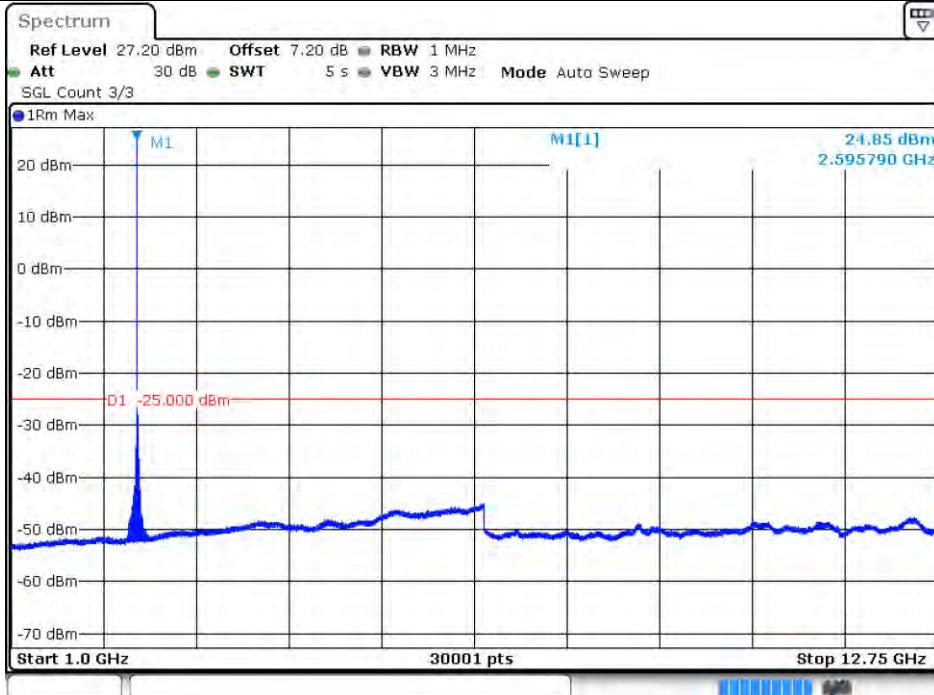
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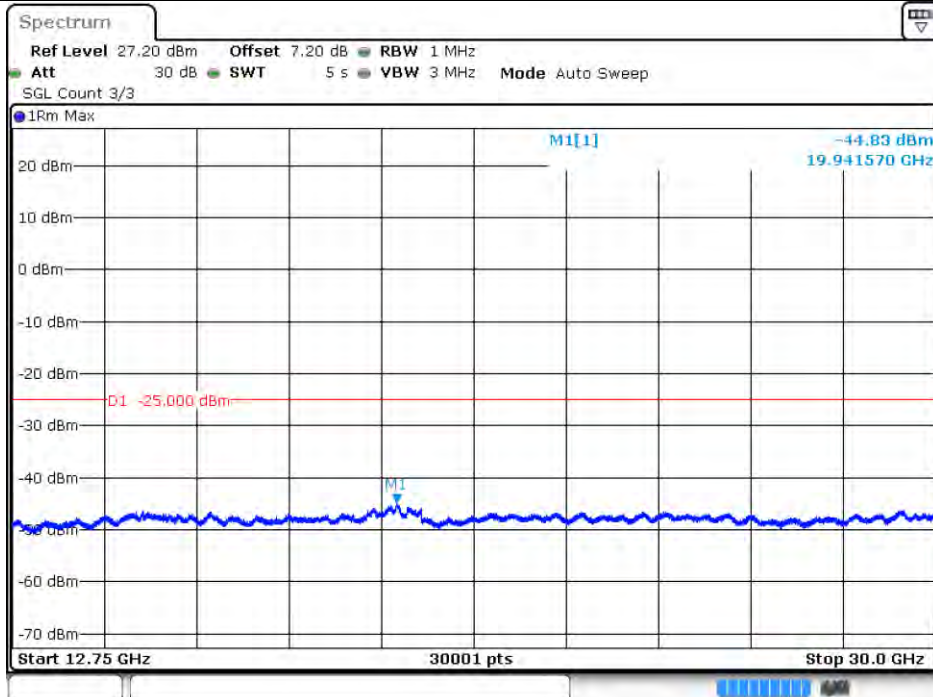
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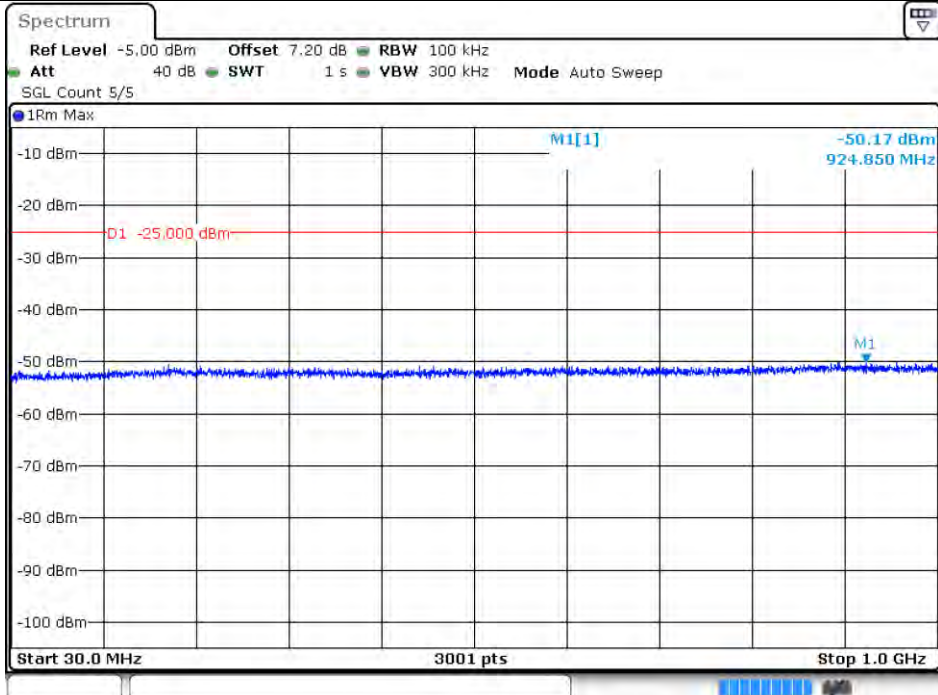
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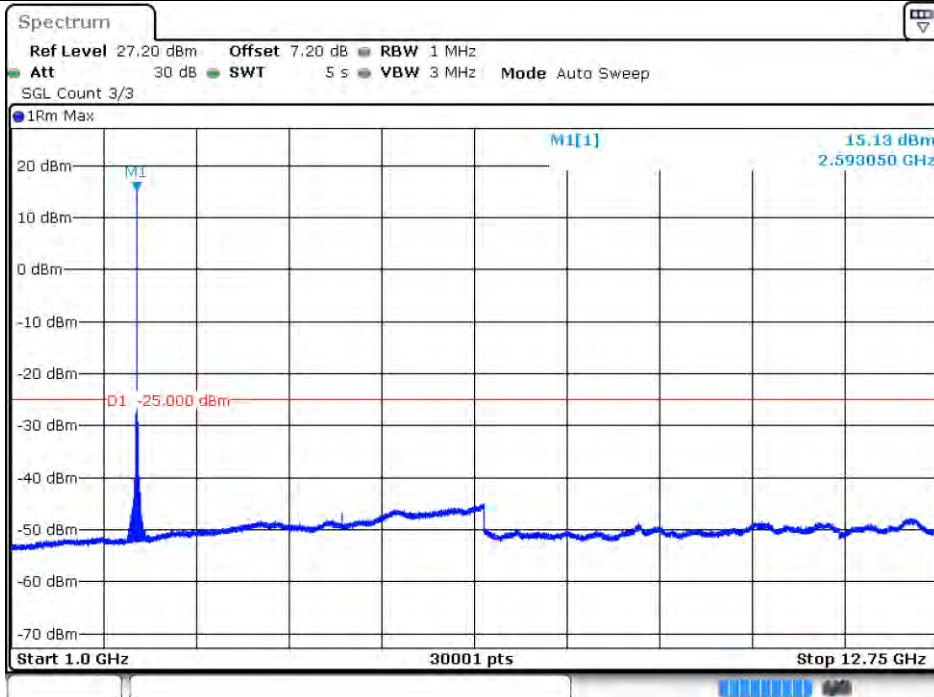
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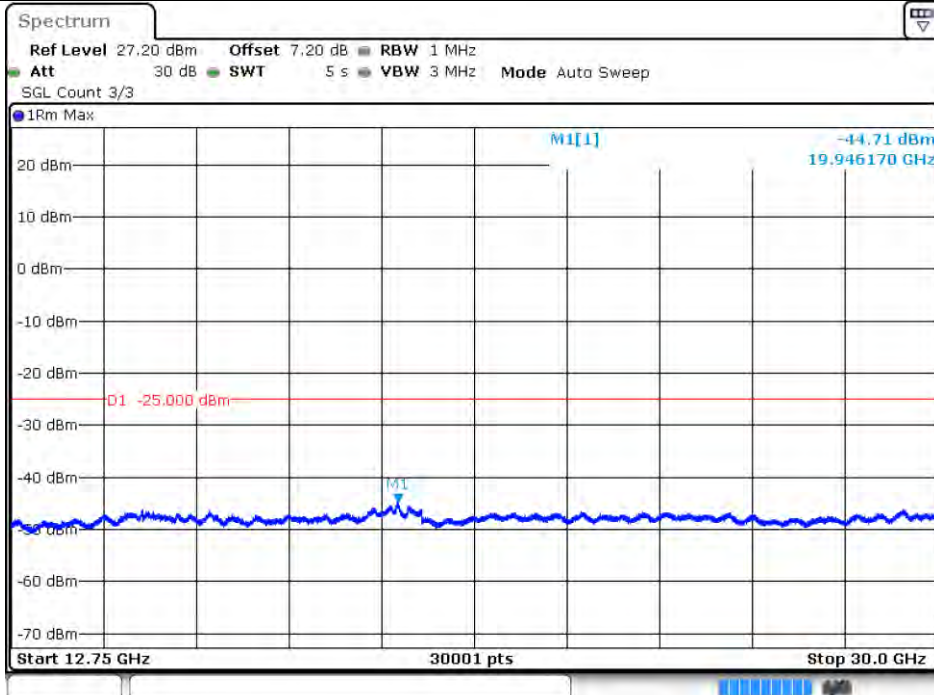


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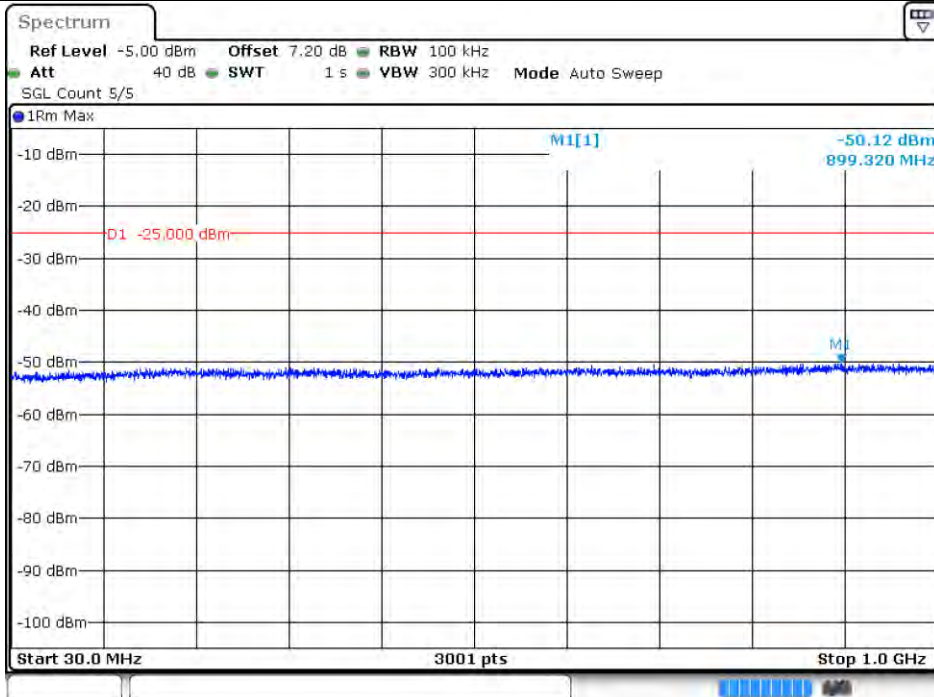
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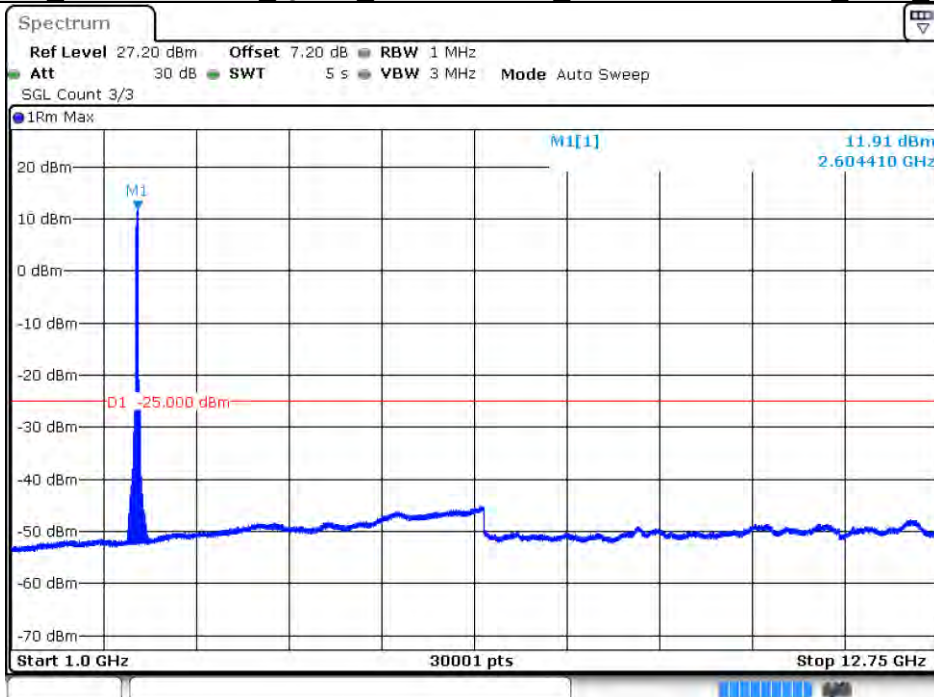


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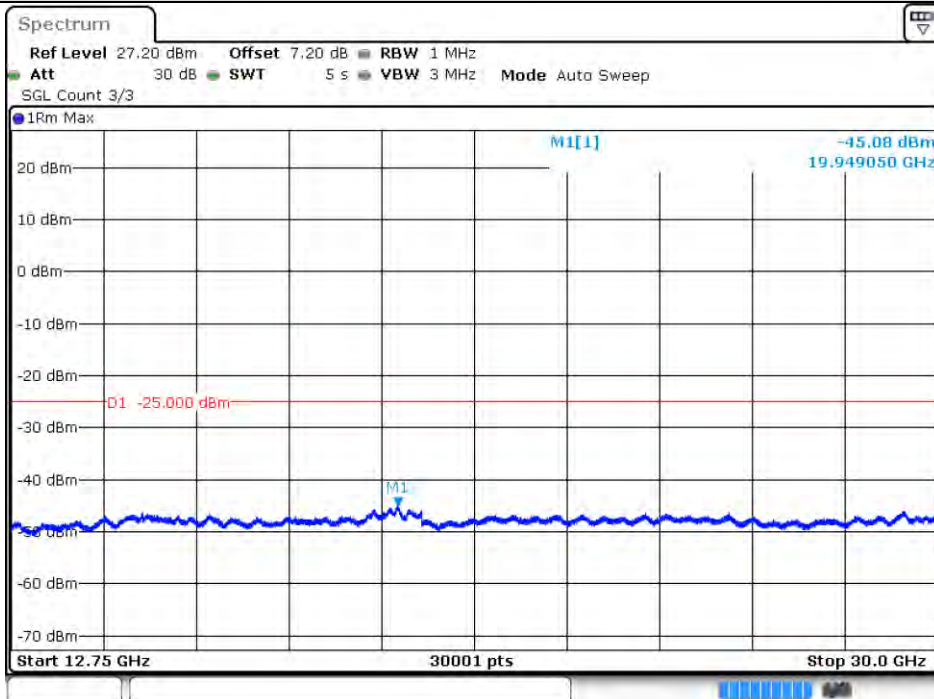
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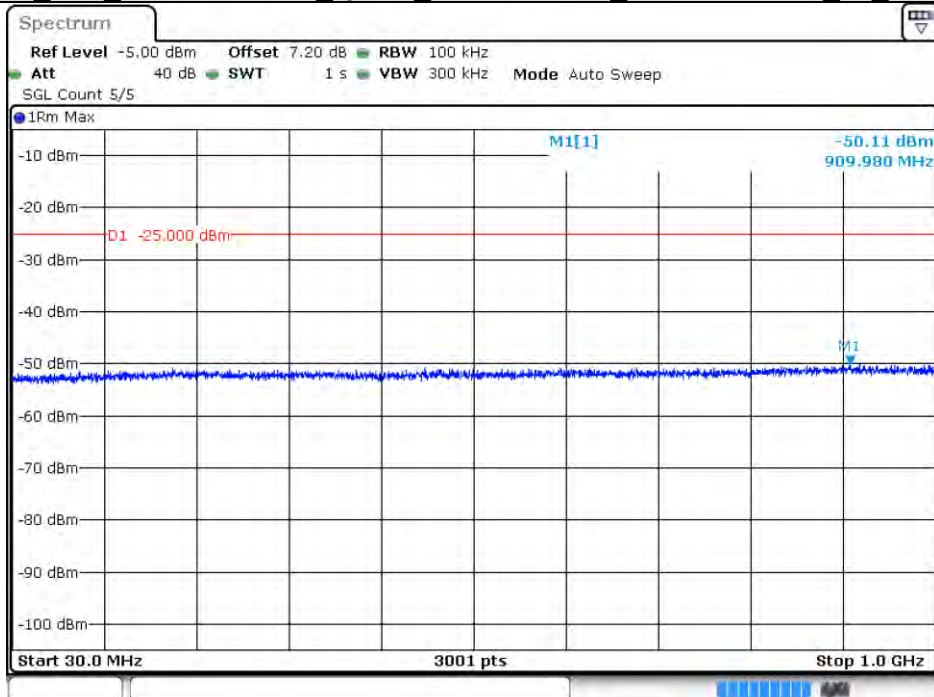


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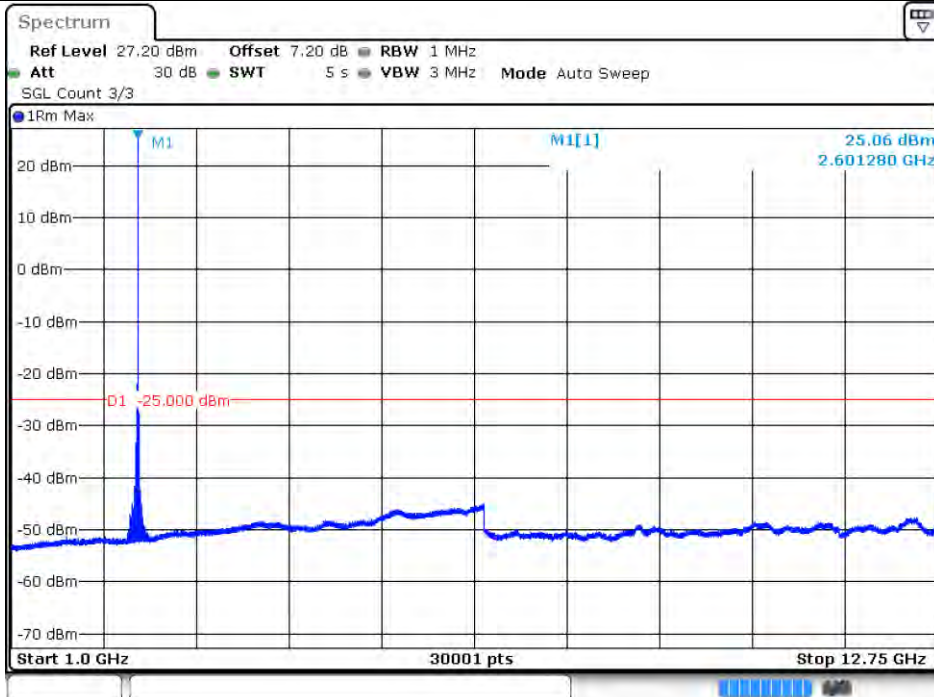


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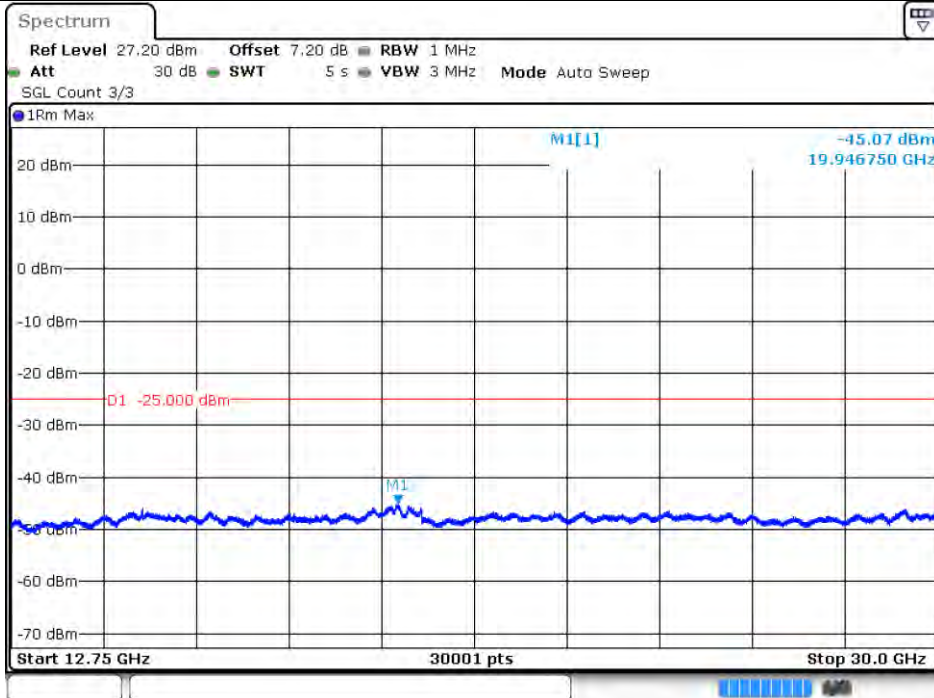
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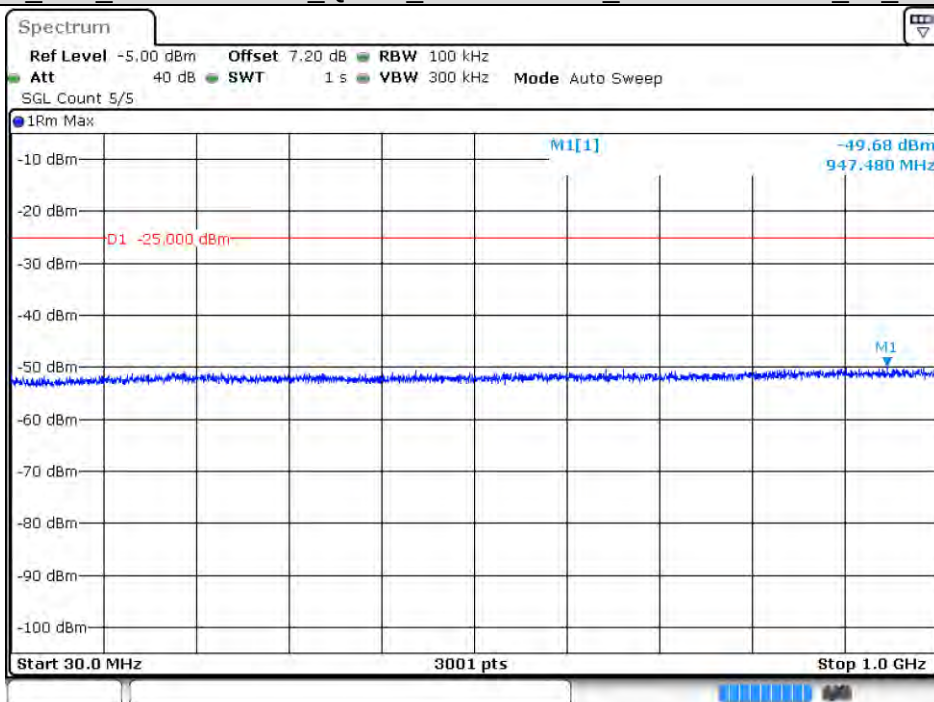


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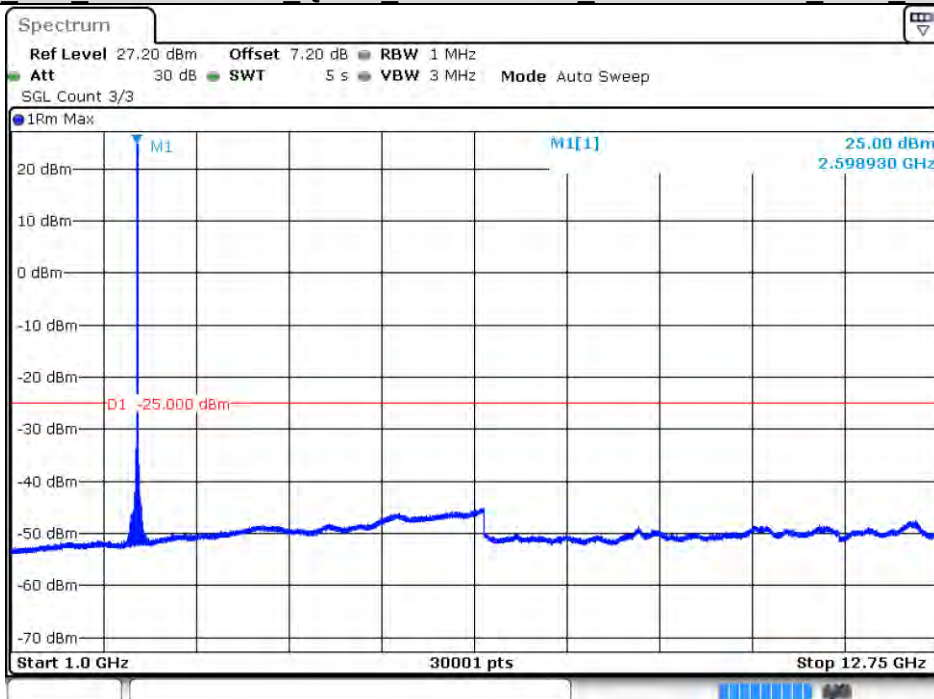
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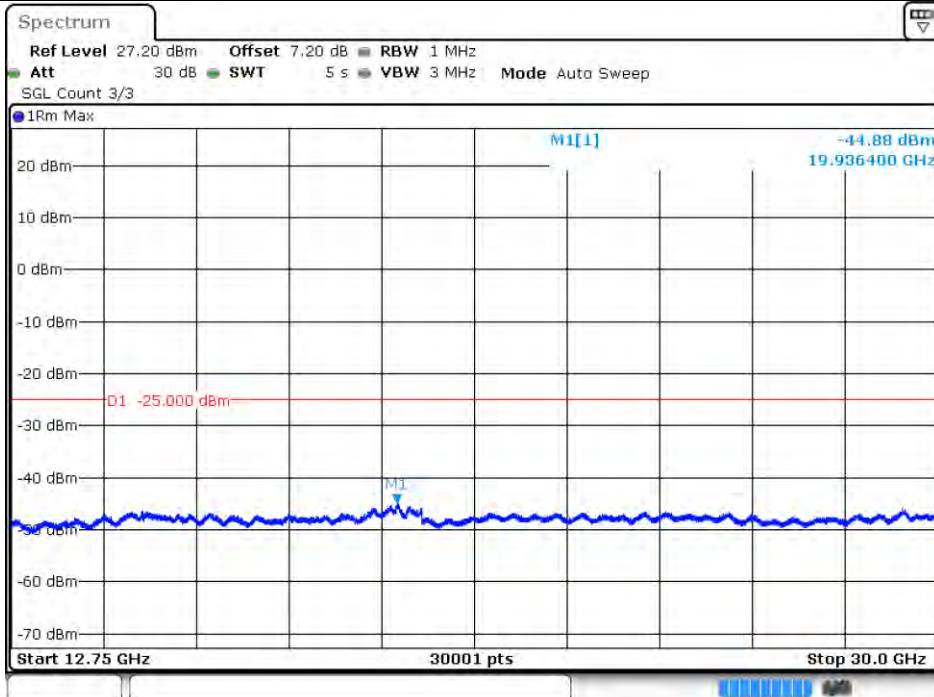


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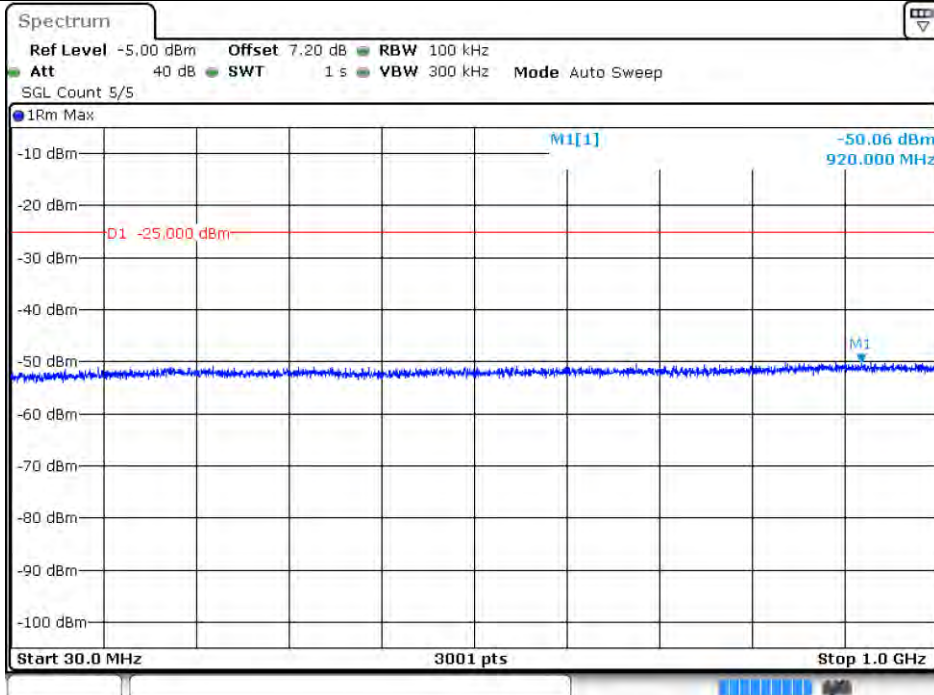


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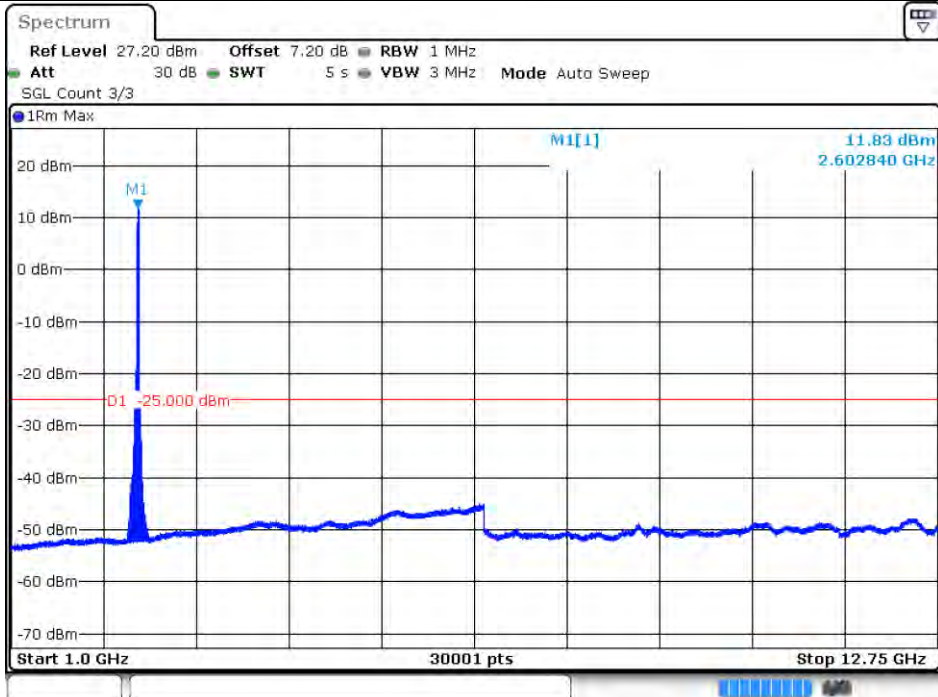


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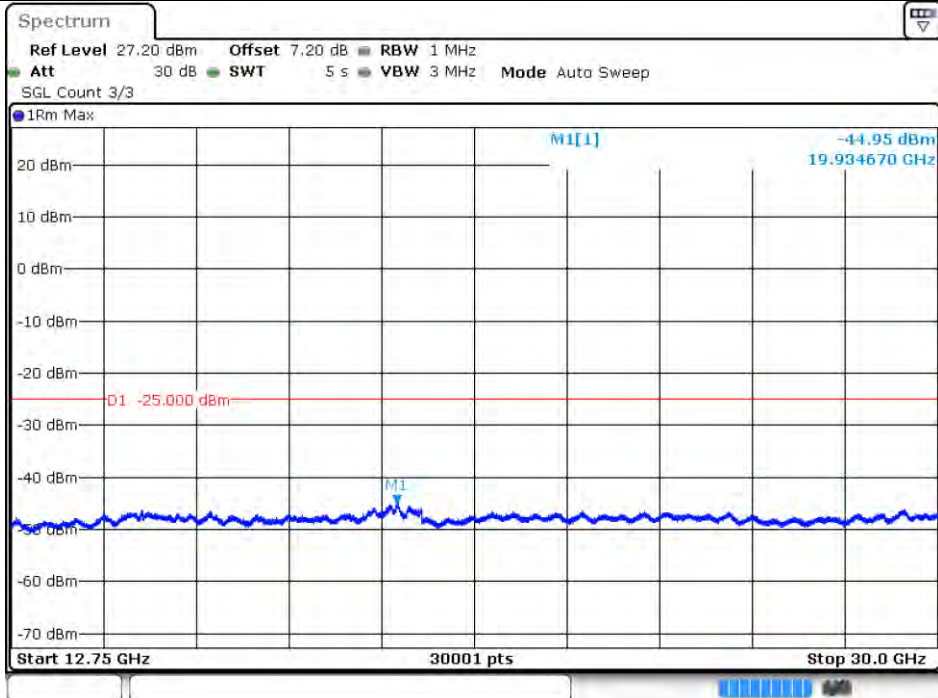
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7 Field Strength of Spurious Radiation

7.1. Test Band = LTE_Band=38 BW=20MHz _TM1 ANT13

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.9138	-66.20	-57.08	-25.00	32.08	Horizontal
2	251.5238	-64.73	-60.19	-25.00	35.19	Horizontal
3	1283.5000	-68.65	-46.70	-25.00	21.70	Horizontal
4	2995.2500	-69.49	-35.01	-25.00	10.01	Horizontal
5	5297.0766	-54.29	-52.74	-25.00	27.74	Horizontal
6	16193.939	-57.04	-43.34	-25.00	18.34	Horizontal



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7.2. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT13

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	63.5863	-63.84	-61.09	-25.00	36.09	Vertical
2	112.2075	-64.87	-56.17	-25.00	31.17	Vertical
3	777.3850	-65.01	-53.42	-25.00	28.42	Vertical
4	2995.7500	-69.22	-34.59	-25.00	9.59	Vertical
5	7124.1375	-53.94	-52.49	-25.00	27.49	Vertical
6	14548.384	-58.71	-44.30	-25.00	19.30	Vertical





7.3. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT13

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.8825	-65.84	-56.88	-25.00	31.88	Horizontal
2	1187.7500	-68.58	-47.36	-25.00	22.36	Horizontal
3	1776.7500	-61.26	-36.43	-25.00	11.43	Horizontal
4	2997.0000	-69.78	-35.20	-25.00	10.20	Horizontal
5	5298.0766	-54.10	-52.53	-25.00	27.53	Horizontal
6	17992.499	-56.51	-41.79	-25.00	16.79	Horizontal





7.4. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT13

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	68.0725	-65.93	-62.04	-25.00	37.04	Vertical
2	108.8125	-64.89	-56.33	-25.00	31.33	Vertical
3	986.6625	-64.48	-47.77	-25.00	22.77	Vertical
4	2998.7500	-69.40	-34.60	-25.00	9.60	Vertical
5	5309.0770	-53.59	-52.63	-25.00	27.63	Vertical
6	17999.000	-56.21	-36.77	-25.00	11.77	Vertical





7.5. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT13

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1250	-65.60	-56.62	-25.00	31.62	Horizontal
2	221.5750	-64.09	-60.48	-25.00	35.48	Horizontal
3	1194.5000	-68.60	-47.26	-25.00	22.26	Horizontal
4	2998.7500	-69.82	-35.14	-25.00	10.14	Horizontal
5	9276.2092	-57.09	-50.24	-25.00	25.24	Horizontal
6	17987.999	-56.43	-41.70	-25.00	16.70	Horizontal



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7.6. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT13

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	56.5538	-64.56	-64.02	-25.00	39.02	Vertical
2	115.6025	-64.66	-56.31	-25.00	31.31	Vertical
3	619.1538	-64.15	-54.54	-25.00	29.54	Vertical
4	1686.7500	-68.18	-42.40	-25.00	17.40	Vertical
5	2998.7500	-68.83	-34.03	-25.00	9.03	Vertical
6	17999.000	-55.56	-36.12	-25.00	11.12	Vertical



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7.7. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.9138	-68.70	-59.58	-25.00	34.58	Horizontal
2	251.5238	-67.23	-62.69	-25.00	37.69	Horizontal
3	1766.0000	-65.55	-40.61	-25.00	15.61	Horizontal
4	2995.2500	-71.99	-37.51	-25.00	12.51	Horizontal
5	5297.0766	-56.79	-55.24	-25.00	30.24	Horizontal
6	17009.467	-60.40	-44.36	-25.00	19.36	Horizontal





7.8. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	63.5863	-64.84	-62.09	-25.00	37.09	Vertical
2	112.2075	-65.87	-57.17	-25.00	32.17	Vertical
3	1237.7500	-68.81	-47.01	-25.00	22.01	Vertical
4	2995.7500	-70.22	-35.59	-25.00	10.59	Vertical
5	7124.1375	-54.94	-53.49	-25.00	28.49	Vertical
6	17988.999	-56.88	-37.41	-25.00	12.41	Vertical





7.9. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.8825	-67.54	-58.58	-25.00	33.58	Horizontal
2	247.8863	-67.55	-62.80	-25.00	37.80	Horizontal
3	992.8463	-67.39	-49.93	-25.00	24.93	Horizontal
4	2997.0000	-71.48	-36.90	-25.00	11.90	Horizontal
5	5298.0766	-55.80	-54.23	-25.00	29.23	Horizontal
6	16158.938	-59.57	-45.49	-25.00	20.49	Horizontal



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7.10. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	69.4063	-67.79	-63.78	-25.00	38.78	Vertical
2	108.8125	-67.09	-58.53	-25.00	33.53	Vertical
3	1145.7500	-70.26	-49.40	-25.00	24.40	Vertical
4	5309.0770	-55.79	-54.83	-25.00	29.83	Vertical
5	14523.884	-60.39	-46.44	-25.00	21.44	Vertical
6	17999.000	-58.41	-38.97	-25.00	13.97	Vertical



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7.11. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1250	-67.70	-58.72	-25.00	33.72	Horizontal
2	221.5750	-66.19	-62.58	-25.00	37.58	Horizontal
3	1772.7500	-64.18	-39.29	-25.00	14.29	Horizontal
4	2998.7500	-71.92	-37.24	-25.00	12.24	Horizontal
5	5298.5766	-56.17	-54.59	-25.00	29.59	Horizontal
6	16971.965	-60.15	-44.03	-25.00	19.03	Horizontal



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7.12. Test Band = LTE_Band=38 BW=20MHz_TM1 ANT31

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	67.4663	-67.69	-63.86	-25.00	38.86	Vertical
2	114.2688	-68.19	-59.70	-25.00	34.70	Vertical
3	999.7575	-67.16	-49.15	-25.00	24.15	Vertical
4	2998.7500	-72.33	-37.53	-25.00	12.53	Vertical
5	5318.5773	-56.59	-55.76	-25.00	30.76	Vertical
6	17999.000	-59.06	-39.62	-25.00	14.62	Vertical

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.



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	LV	10.50	0.004067	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	NV	4.20	0.001628	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	TN	HV	9.72	0.003765	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	LV	12.46	0.004816	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	NV	3.28	0.001266	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	TN	HV	13.48	0.005209	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	LV	9.21	0.003532	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	NV	6.88	0.002640	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	TN	HV	-14.83	-0.005690	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	LV	-10.00	-0.003836	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	NV	10.90	0.004181	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	TN	HV	-5.57	-0.002138	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	LV	-5.45	-0.002109	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	NV	-13.46	-0.005205	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	TN	HV	-1.40	-0.000541	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	LV	-8.31	-0.003188	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	NV	1.80	0.000692	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	TN	HV	-14.05	-0.005391	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	LV	-2.37	-0.000918	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	NV	-5.86	-0.002271	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	TN	HV	3.95	0.001529	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	LV	10.93	0.004226	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	NV	11.00	0.004253	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	TN	HV	2.59	0.001000	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	LV	-13.27	-0.005089	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	NV	11.59	0.004447	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	TN	HV	0.16	0.000063	PASS





8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-30	-11.58	-0.004485	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-20	-0.31	-0.000120	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	-10	-14.28	-0.005532	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	0	-7.16	-0.002773	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	10	-0.69	-0.000268	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	20	13.30	0.005153	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	30	4.80	0.001859	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	40	-11.21	-0.004342	PASS
CA_38C	QPSK	37850+38048	100RB#0/100RB#0	NV	50	-1.76	-0.000680	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-30	10.50	0.004058	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-20	-12.62	-0.004877	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	-10	-9.45	-0.003655	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	0	9.36	0.003619	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	10	-1.59	-0.000614	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	20	6.55	0.002534	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	30	7.61	0.002944	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	40	11.84	0.004576	PASS
CA_38C	QPSK	37901+38099	100RB#0/100RB#0	NV	50	-5.54	-0.002143	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-30	1.90	0.000727	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-20	0.49	0.000189	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	-10	-2.28	-0.000877	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	0	8.57	0.003286	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	10	-2.56	-0.000983	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	20	-13.50	-0.005179	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	30	14.33	0.005499	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	40	-3.37	-0.001295	PASS
CA_38C	QPSK	37952+38150	100RB#0/100RB#0	NV	50	-4.22	-0.001619	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-30	-0.29	-0.000114	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-20	5.57	0.002157	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	-10	-12.47	-0.004831	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	0	-2.44	-0.000945	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	10	-5.88	-0.002278	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	20	-3.84	-0.001488	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	30	-13.72	-0.005314	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	40	7.44	0.002881	PASS
CA_38C	16QAM	37850+38048	100RB#0/100RB#0	NV	50	-0.72	-0.000280	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-30	3.04	0.001177	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-20	9.98	0.003859	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	-10	5.85	0.002261	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	0	6.11	0.002361	PASS



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CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	10	11.92	0.004607	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	20	14.92	0.005767	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	30	-5.45	-0.002108	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	40	1.67	0.000645	PASS
CA_38C	16QAM	37901+38099	100RB#0/100RB#0	NV	50	13.43	0.005194	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-30	12.74	0.004889	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-20	3.40	0.001304	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	-10	-12.07	-0.004629	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	0	-9.39	-0.003605	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	10	-7.15	-0.002741	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	20	11.13	0.004269	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	30	-3.49	-0.001340	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	40	0.81	0.000309	PASS
CA_38C	16QAM	37952+38150	100RB#0/100RB#0	NV	50	8.30	0.003183	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-30	1.99	0.000770	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-20	-1.89	-0.000732	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	-10	-13.42	-0.005198	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	0	11.37	0.004404	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	10	13.56	0.005253	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	20	-14.74	-0.005709	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	30	0.74	0.000286	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	40	-3.23	-0.001252	PASS
CA_38C	64QAM	37850+38048	100RB#0/100RB#0	NV	50	-5.70	-0.002208	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-30	11.98	0.004630	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-20	-11.42	-0.004416	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	-10	1.11	0.000428	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	0	-5.21	-0.002014	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	10	4.70	0.001817	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	20	-14.64	-0.005658	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	30	-1.34	-0.000519	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	40	14.52	0.005614	PASS
CA_38C	64QAM	37901+38099	100RB#0/100RB#0	NV	50	11.29	0.004364	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-30	14.52	0.005572	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-20	-6.72	-0.002580	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	-10	-1.15	-0.000441	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	0	-4.96	-0.001901	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	10	1.46	0.000560	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	20	14.26	0.005473	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	30	-9.46	-0.003628	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	40	-10.94	-0.004199	PASS
CA_38C	64QAM	37952+38150	100RB#0/100RB#0	NV	50	14.50	0.005564	PASS

The End



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

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