



# Appendix B

## E-UTRA Band CA\_7C



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# 1 Effective (Isotropic) Radiated Power Output Data

## 1.1 Max Power Test Result for LTE Band CA\_7C(ANT1)

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	QPSK	22.49	21.79	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	21.72	21.02	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	21.60	20.9	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	21.60	20.9	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	21.92	21.22	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	21.76	21.06	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	21.63	20.93	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	22.07	21.37	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	22.01	21.31	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	21.62	20.92	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	21.58	20.88	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	21.55	20.85	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	21.69	20.99	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	22.06	21.36	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	22.17	21.47	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	22.08	21.38	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	21.57	20.87	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	22.14	21.44	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	21.62	20.92	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	21.99	21.29	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	21.62	20.92	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	22.41	21.71	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	21.61	20.91	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	21.53	20.83	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	21.67	20.97	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	21.63	20.93	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	21.55	20.85	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	21.75	21.05	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	21.73	21.03	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	22.21	21.51	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	21.78	21.08	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	22.14	21.44	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	21.64	20.94	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	23.1	22.4	33.00	PASS



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CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	22.79	22.09	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	22.79	22.09	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	21.92	21.22	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	21.98	21.28	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	21.82	21.12	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	22.07	21.37	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	21.65	20.95	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	21.93	21.23	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	21.61	20.91	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	21.82	21.12	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	21.52	20.82	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	21.87	21.17	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	21.99	21.29	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	21.58	20.88	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	22.01	21.31	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	22.21	21.51	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	22.03	21.33	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	22.06	21.36	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	21.63	20.93	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	22.06	21.36	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	21.67	20.97	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	22.04	21.34	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	21.58	20.88	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	22.06	21.36	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	21.65	20.95	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	21.86	21.16	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	22.10	21.4	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	21.70	21	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	22.09	21.39	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	21.74	21.04	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	22.13	21.43	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	21.69	20.99	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	22.25	21.55	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	21.81	21.11	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	21.43	20.73	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	20.76	20.06	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	21.03	20.33	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	21.23	20.53	33.00	PASS



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CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	21.29	20.59	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	20.93	20.23	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	21.49	20.79	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	20.67	19.97	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	21.79	21.09	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	20.72	20.02	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	20.97	20.27	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	20.80	20.1	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	20.66	19.96	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	20.65	19.95	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	21.33	20.63	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	20.98	20.28	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	21.47	20.77	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	20.60	19.9	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	21.00	20.3	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	20.63	19.93	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	21.12	20.42	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	20.63	19.93	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	21.01	20.31	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	21.26	20.56	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	20.53	19.83	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	21.06	20.36	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	20.69	19.99	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	21.40	20.7	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	20.81	20.11	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	21.52	20.82	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	20.59	19.89	33.00	PASS



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**1.2 Max Power Test Result for LTE Band CA\_7C(ANT2)**

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	QPSK	20.44	22.94	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	19.62	22.12	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	19.30	21.80	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	20.10	22.60	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	19.62	22.12	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	20.16	22.66	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	20.23	22.73	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	20.37	22.87	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	19.81	22.31	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	19.52	22.02	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	19.28	21.78	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	19.95	22.45	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	20.29	22.79	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	19.86	22.36	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	20.07	22.57	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	19.78	22.28	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	19.47	21.97	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	19.84	22.34	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	20.12	22.62	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	20.29	22.79	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	19.42	21.92	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	20.31	22.81	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	19.31	21.81	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	20.03	22.53	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	19.97	22.47	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	19.33	21.83	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	19.95	22.45	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	20.35	22.85	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	20.03	22.53	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	20.71	23.21	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	20.08	22.58	33.00	PASS



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CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	19.84	22.34	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	20.04	22.54	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	21.70	24.20	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	20.11	22.61	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	20.45	22.95	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	19.62	22.12	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	19.88	22.38	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	19.52	22.02	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	20.47	22.97	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	20.25	22.75	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	20.33	22.83	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	19.41	21.91	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	19.72	22.22	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	19.22	21.72	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	19.77	22.27	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	19.89	22.39	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	19.28	21.78	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	20.11	22.61	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	20.21	22.71	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	19.83	22.33	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	20.31	22.81	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	19.43	21.93	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	19.96	22.46	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	19.37	21.87	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	19.94	22.44	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	19.28	21.78	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	20.36	22.86	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	19.35	21.85	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	20.26	22.76	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	20.70	23.20	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	19.60	22.10	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	19.79	22.29	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	20.24	22.74	33.00	PASS



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CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	20.43	22.93	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	19.49	21.99	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	20.15	22.65	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	19.51	22.01	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	19.83	22.33	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	19.36	21.86	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	18.93	21.43	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	18.93	21.43	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	19.79	22.29	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	18.63	21.13	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	19.89	22.39	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	19.27	21.77	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	20.19	22.69	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	19.32	21.82	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	18.87	21.37	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	18.50	21.00	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	19.16	21.66	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	18.35	20.85	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	19.73	22.23	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	19.58	22.08	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	19.37	21.87	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	18.30	20.80	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	19.50	22.00	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	18.93	21.43	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	20.44	22.94	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	19.62	22.12	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	19.30	21.80	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	20.10	22.60	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	19.62	22.12	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	20.16	22.66	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	20.23	22.73	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	20.37	22.87	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	19.81	22.31	33.00	PASS



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CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	19.52	22.02	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	19.28	21.78	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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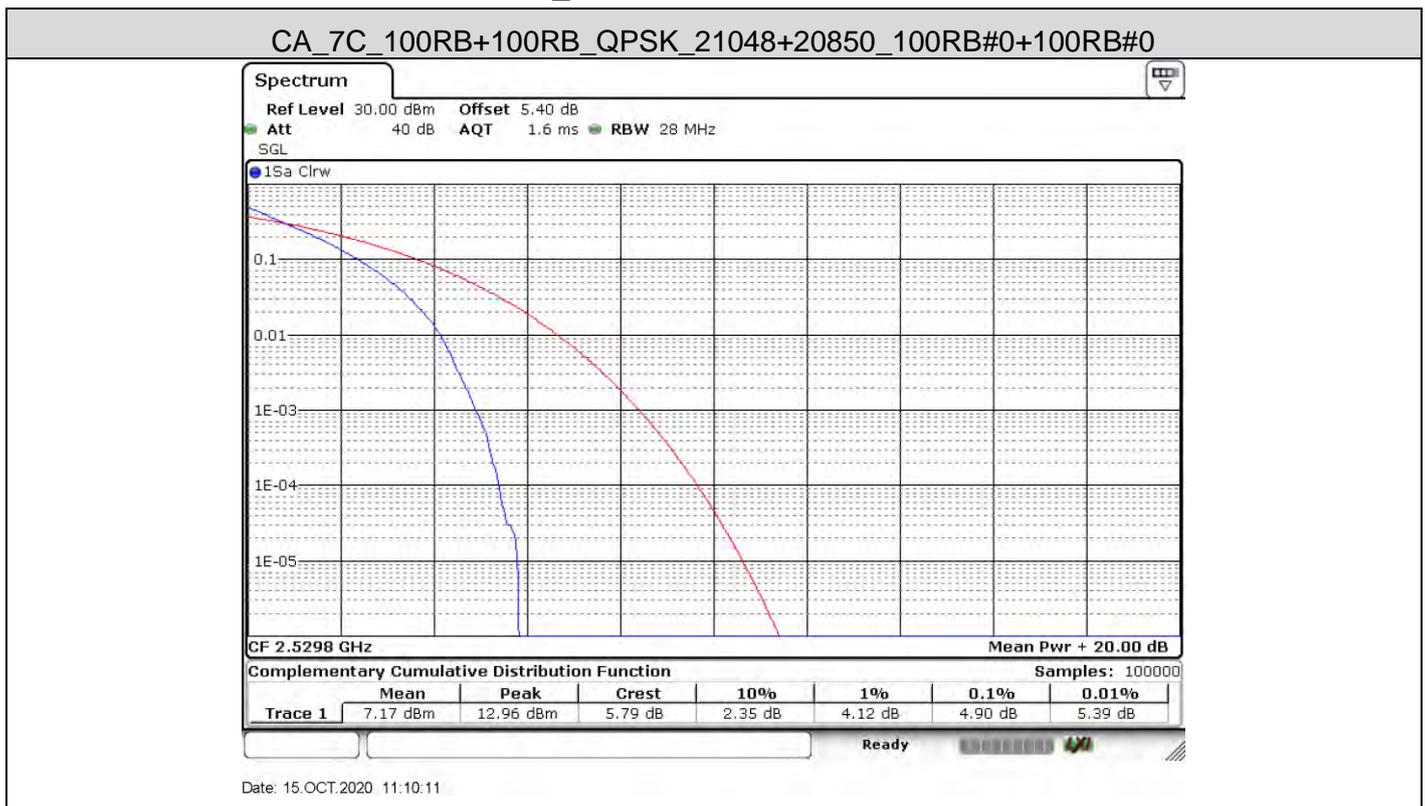
## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_7C	QPSK	100RB+100RB	21048+20850	100RB#0	100RB#0	4.90	13.00	PASS
CA_7C	QPSK	100RB+100RB	21199+21001	100RB#0	100RB#0	5.42	13.00	PASS
CA_7C	QPSK	100RB+100RB	21350+21152	100RB#0	100RB#0	5.45	13.00	PASS
CA_7C	16QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.23	13.00	PASS
CA_7C	16QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.35	13.00	PASS
CA_7C	16QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.78	13.00	PASS
CA_7C	64QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	4.49	13.00	PASS
CA_7C	64QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.55	13.00	PASS
CA_7C	64QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.46	13.00	PASS

### 2.1 For LTE

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



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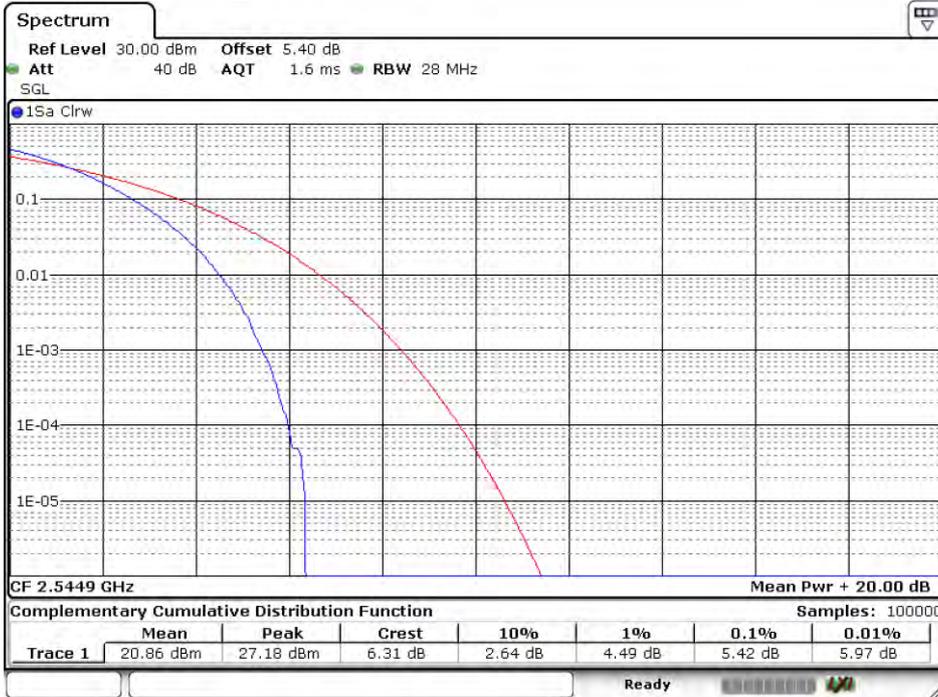
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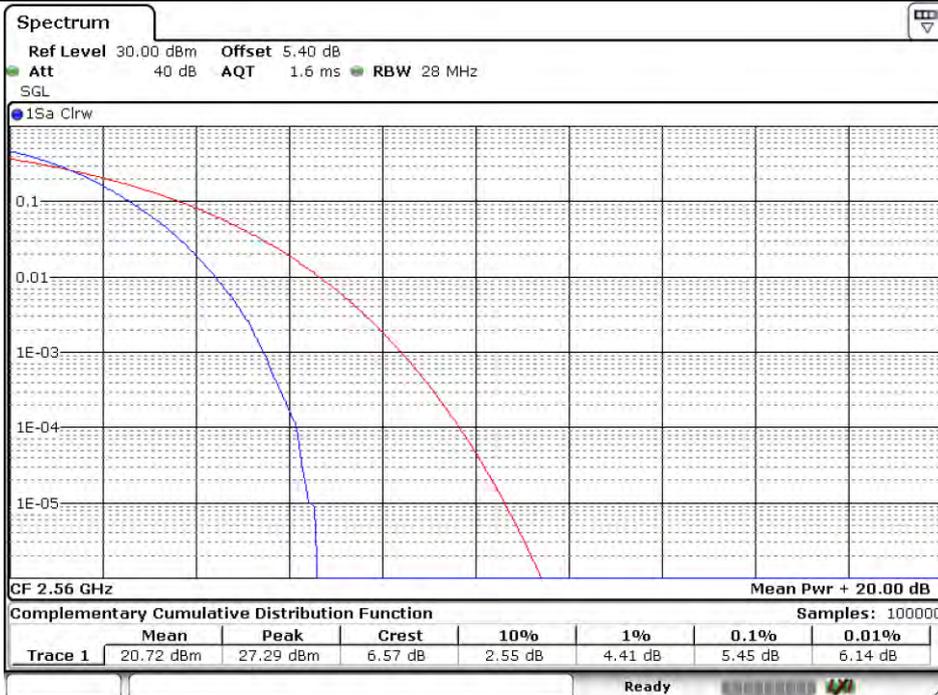


**CA\_7C\_100RB+100RB\_QPSK\_21199+21001\_100RB#0+100RB#0**



Date: 15.OCT.2020 11:14:27

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



Date: 15.OCT.2020 11:15:19



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



Date: 15.OCT.2020 11:10:58

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



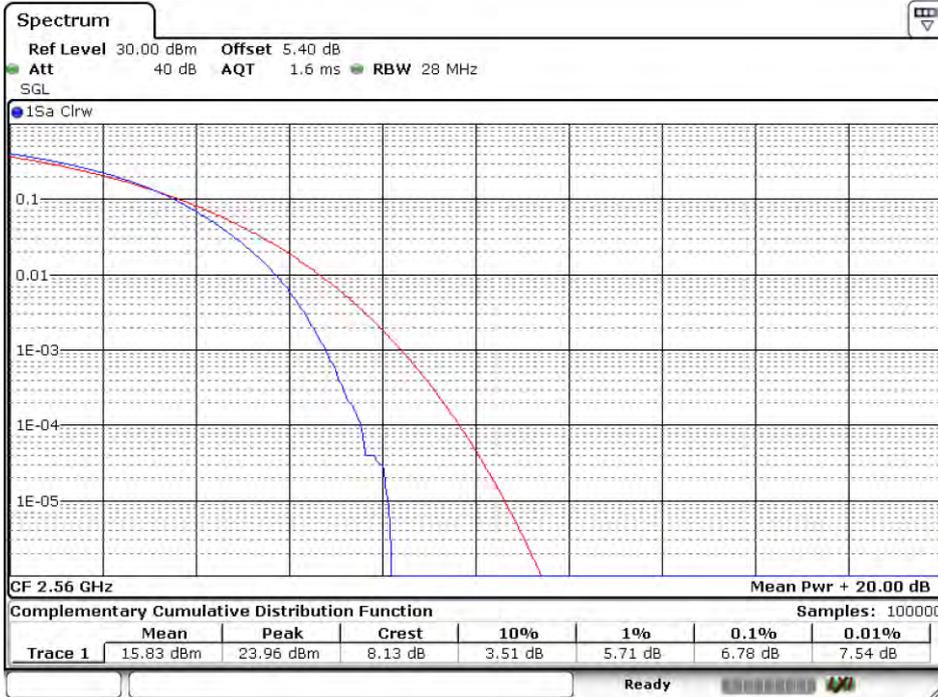
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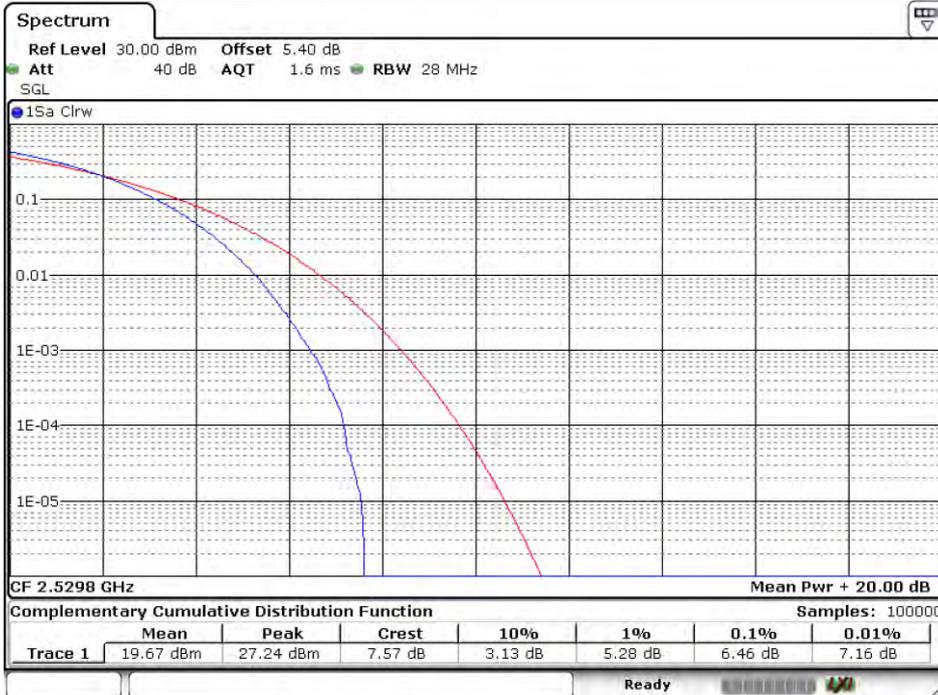


**CA\_7C\_100RB+100RB\_16QAM\_21350+21152\_100RB#0+100RB#0**



Date: 15.OCT.2020 11:16:24

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



Date: 15.OCT.2020 11:12:06



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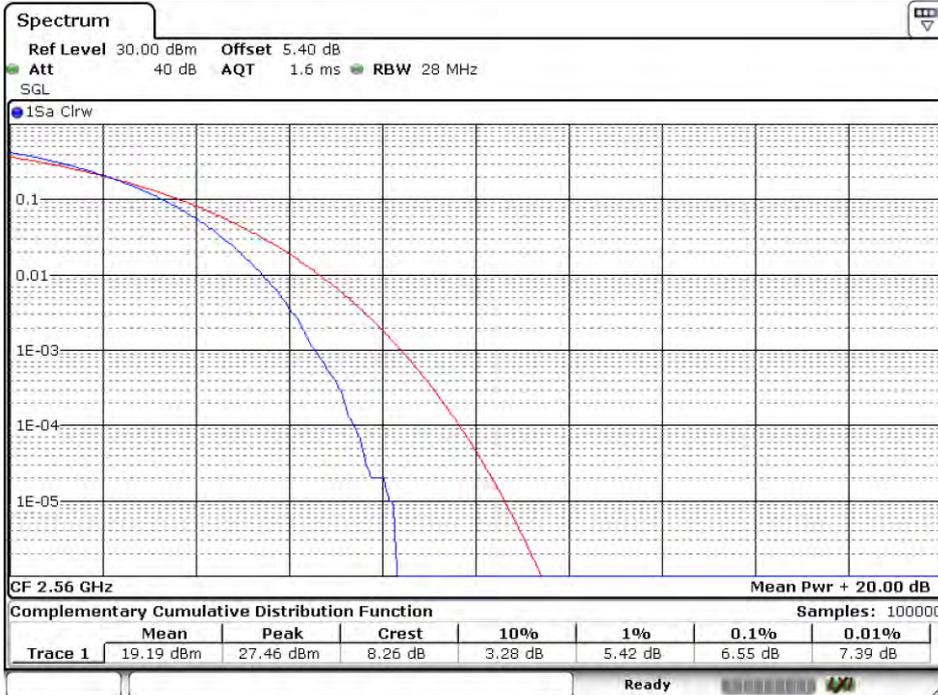


**CA\_7C\_100RB+100RB\_64QAM\_21199+21001\_100RB#0+100RB#0**



Date: 15.OCT.2020 11:13:08

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



Date: 15.OCT.2020 11:16:40





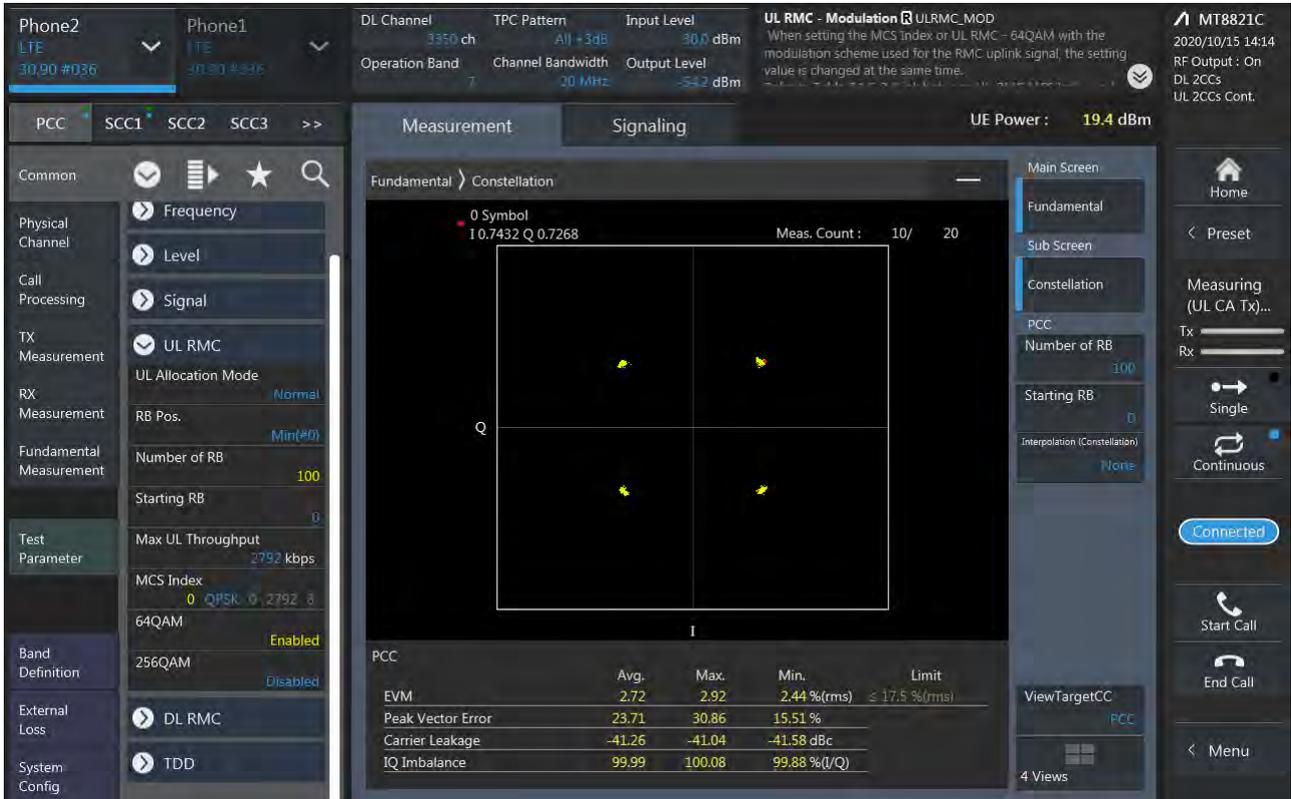
### 3 Modulation Characteristics

#### 3.1 For LTE

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

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

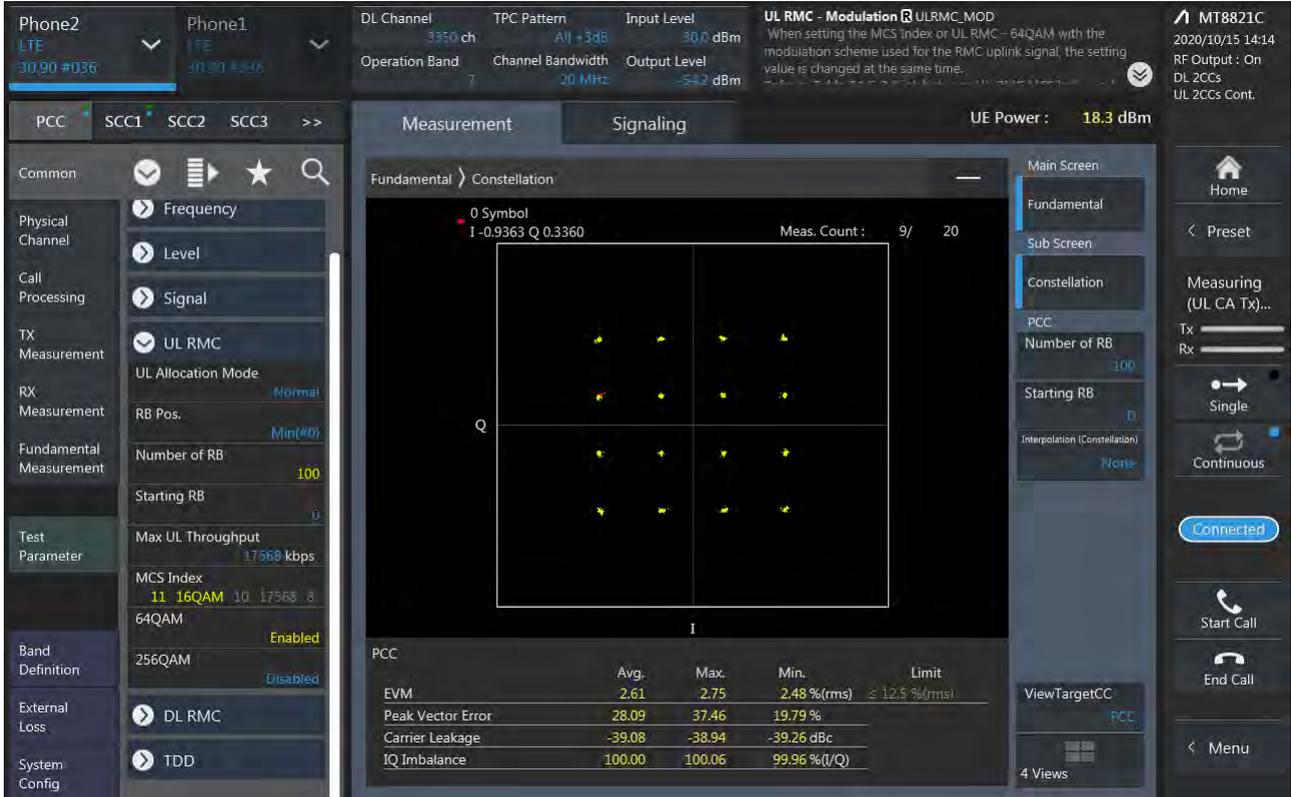
##### 3.1.1.1.1 Test Channel = 20850+20994





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

3.1.1.2.1 Test Channel =20850+20994



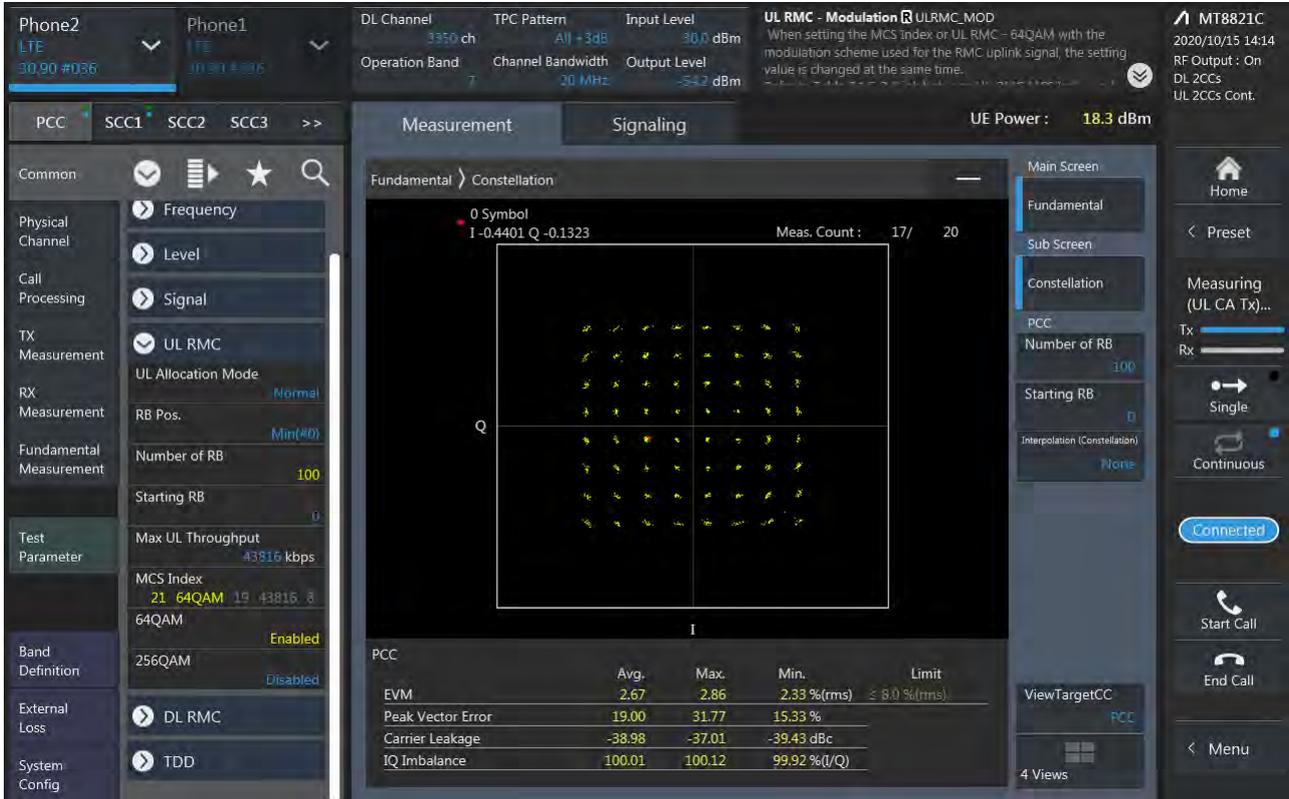
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**3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB**

**3.1.1.3.1 Test Channel = 20850+20994**



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## 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	27.55	28.60	PASS
CA_7C	50RB+100RB	16QAM	20805+20949	50RB#0+100RB#0	27.49	28.45	PASS
CA_7C	50RB+100RB	64QAM	20805+20949	50RB#0+100RB#0	27.56	28.61	PASS
CA_7C	50RB+100RB	QPSK	21006+21150	50RB#0+100RB#0	27.55	28.55	PASS
CA_7C	50RB+100RB	16QAM	21006+21150	50RB#0+100RB#0	27.56	28.55	PASS
CA_7C	50RB+100RB	64QAM	21006+21150	50RB#0+100RB#0	27.56	28.58	PASS
CA_7C	50RB+100RB	QPSK	21206+21350	50RB#0+100RB#0	27.53	28.54	PASS
CA_7C	50RB+100RB	16QAM	21206+21350	50RB#0+100RB#0	27.5	28.54	PASS
CA_7C	50RB+100RB	64QAM	21206+21350	50RB#0+100RB#0	27.52	28.58	PASS
CA_7C	75RB+50RB	QPSK	20825+20945	75RB#0+50RB#0	23.22	26.43	PASS
CA_7C	75RB+50RB	16QAM	20825+20945	75RB#0+50RB#0	23.17	24.47	PASS
CA_7C	75RB+50RB	64QAM	20825+20945	75RB#0+50RB#0	23.14	24.45	PASS
CA_7C	75RB+50RB	QPSK	21051+21171	75RB#0+50RB#0	23.22	24.35	PASS
CA_7C	75RB+50RB	16QAM	21051+21171	75RB#0+50RB#0	23.3	24.30	PASS
CA_7C	75RB+50RB	64QAM	21051+21171	75RB#0+50RB#0	23.17	24.45	PASS
CA_7C	75RB+50RB	QPSK	21277+21397	75RB#0+50RB#0	23.18	24.43	PASS
CA_7C	75RB+50RB	16QAM	21277+21397	75RB#0+50RB#0	23.18	24.43	PASS
CA_7C	75RB+50RB	64QAM	21277+21397	75RB#0+50RB#0	23.19	24.45	PASS
CA_7C	75RB+75RB	QPSK	20825+20975	75RB#0+75RB#0	28.15	29.17	PASS
CA_7C	75RB+75RB	16QAM	20825+20975	75RB#0+75RB#0	28.15	29.15	PASS
CA_7C	75RB+75RB	64QAM	20825+20975	75RB#0+75RB#0	28.16	29.14	PASS
CA_7C	75RB+75RB	QPSK	21025+21175	75RB#0+75RB#0	28.16	29.17	PASS
CA_7C	75RB+75RB	16QAM	21025+21175	75RB#0+75RB#0	28.18	29.21	PASS
CA_7C	75RB+75RB	64QAM	21025+21175	75RB#0+75RB#0	28.18	29.20	PASS
CA_7C	75RB+75RB	QPSK	21225+21375	75RB#0+75RB#0	28.18	29.21	PASS
CA_7C	75RB+75RB	16QAM	21225+21375	75RB#0+75RB#0	28.16	29.18	PASS
CA_7C	75RB+75RB	64QAM	21225+21375	75RB#0+75RB#0	28.16	29.21	PASS
CA_7C	75RB+100RB	QPSK	20828+20999	75RB#0+100RB#0	32.43	33.87	PASS
CA_7C	75RB+100RB	16QAM	20828+20999	75RB#0+100RB#0	32.43	33.91	PASS
CA_7C	75RB+100RB	64QAM	20828+20999	75RB#0+100RB#0	32.59	33.79	PASS
CA_7C	75RB+100RB	QPSK	21003+21174	75RB#0+100RB#0	32.25	33.91	PASS
CA_7C	75RB+100RB	16QAM	21003+21174	75RB#0+100RB#0	32.11	33.89	PASS
CA_7C	75RB+100RB	64QAM	21003+21174	75RB#0+100RB#0	32.09	33.85	PASS



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CA_7C	75RB+100RB	QPSK	21179+21350	75RB#0+100RB#0	32.05	33.89	PASS
CA_7C	75RB+100RB	16QAM	21179+21350	75RB#0+100RB#0	32.09	33.87	PASS
CA_7C	75RB+100RB	64QAM	21179+21350	75RB#0+100RB#0	32.49	33.89	PASS
CA_7C	100RB+50RB	QPSK	20850+20994	100RB#0+50RB#0	27.68	29.06	PASS
CA_7C	100RB+50RB	16QAM	20850+20994	100RB#0+50RB#0	27.56	29.05	PASS
CA_7C	100RB+50RB	64QAM	20850+20994	100RB#0+50RB#0	27.68	29.06	PASS
CA_7C	100RB+50RB	QPSK	21051+21195	100RB#0+50RB#0	27.56	29.11	PASS
CA_7C	100RB+50RB	16QAM	21051+21195	100RB#0+50RB#0	27.56	29.02	PASS
CA_7C	100RB+50RB	64QAM	21051+21195	100RB#0+50RB#0	27.79	29.08	PASS
CA_7C	100RB+50RB	QPSK	21251+21395	100RB#0+50RB#0	27.77	29.12	PASS
CA_7C	100RB+50RB	16QAM	21251+21395	100RB#0+50RB#0	27.59	29.06	PASS
CA_7C	100RB+50RB	64QAM	21251+21395	100RB#0+50RB#0	27.53	29.02	PASS
CA_7C	100RB+75RB	QPSK	20850+21021	100RB#0+75RB#0	32.47	33.93	PASS
CA_7C	100RB+75RB	16QAM	20850+21021	100RB#0+75RB#0	32.47	33.93	PASS
CA_7C	100RB+75RB	64QAM	20850+21021	100RB#0+75RB#0	32.47	33.87	PASS
CA_7C	100RB+75RB	QPSK	21026+21197	100RB#0+75RB#0	32.51	33.95	PASS
CA_7C	100RB+75RB	16QAM	21026+21197	100RB#0+75RB#0	32.53	33.93	PASS
CA_7C	100RB+75RB	64QAM	21026+21197	100RB#0+75RB#0	32.51	33.95	PASS
CA_7C	100RB+75RB	QPSK	21201+21372	100RB#0+75RB#0	32.47	33.95	PASS
CA_7C	100RB+75RB	16QAM	21201+21372	100RB#0+75RB#0	32.49	33.95	PASS
CA_7C	100RB+75RB	64QAM	21201+21372	100RB#0+75RB#0	32.47	33.97	PASS
CA_7C	100RB+100RB	QPSK	20850+21048	100RB#0+100RB#0	37.33	38.71	PASS
CA_7C	100RB+100RB	16QAM	20850+21048	100RB#0+100RB#0	37.23	38.81	PASS
CA_7C	100RB+100RB	64QAM	20850+21048	100RB#0+100RB#0	37.25	38.85	PASS
CA_7C	100RB+100RB	QPSK	21001+21199	100RB#0+100RB#0	37.33	38.79	PASS
CA_7C	100RB+100RB	16QAM	21001+21199	100RB#0+100RB#0	37.01	38.83	PASS
CA_7C	100RB+100RB	64QAM	21001+21199	100RB#0+100RB#0	36.99	38.77	PASS
CA_7C	100RB+100RB	QPSK	21152+21350	100RB#0+100RB#0	37.33	38.83	PASS
CA_7C	100RB+100RB	16QAM	21152+21350	100RB#0+100RB#0	36.79	38.75	PASS
CA_7C	100RB+100RB	64QAM	21152+21350	100RB#0+100RB#0	37.33	38.77	PASS

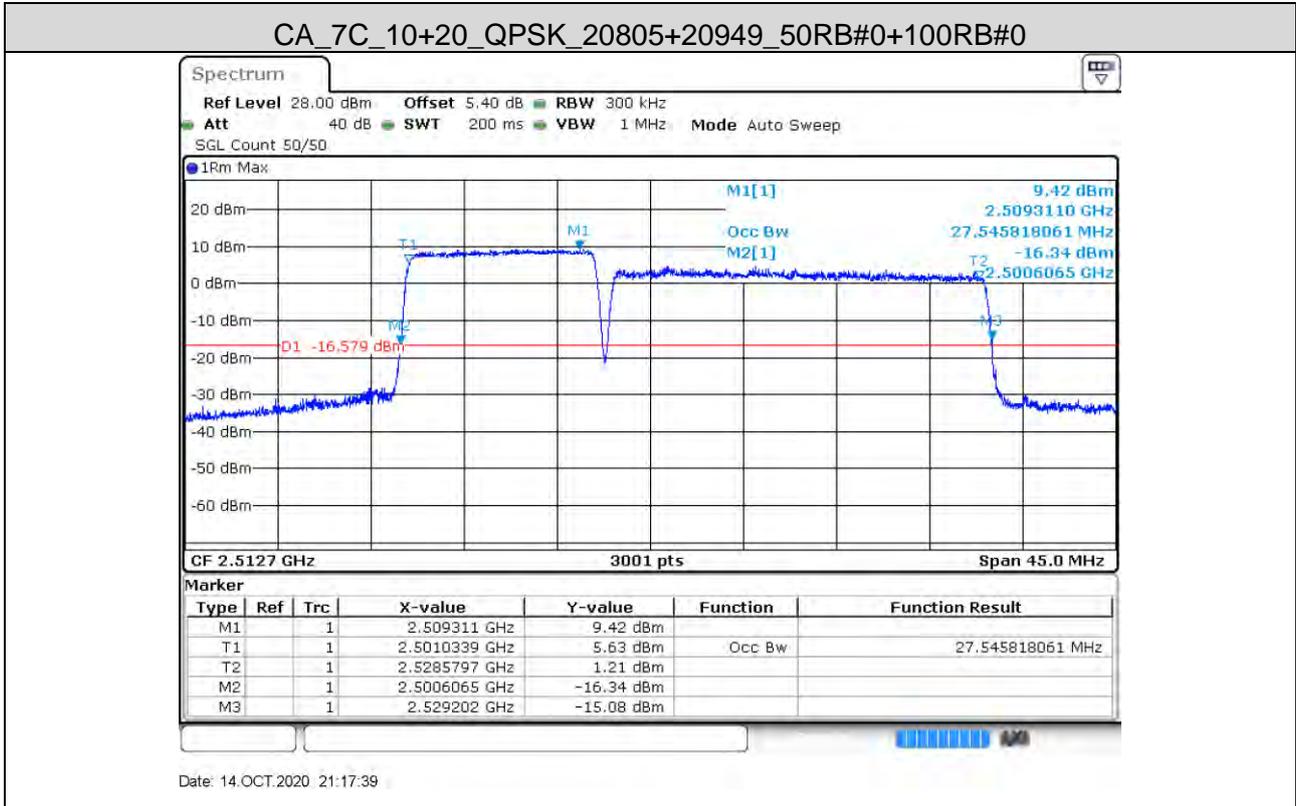


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### 4.1 For LTE

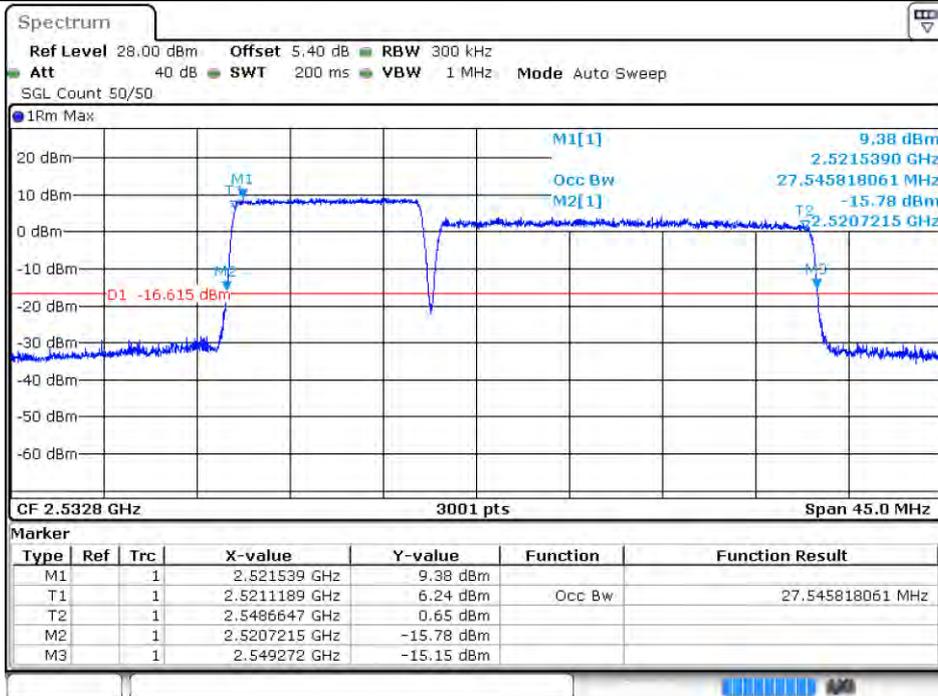
#### 4.1.1 Test Band = LTE Band CA\_7C



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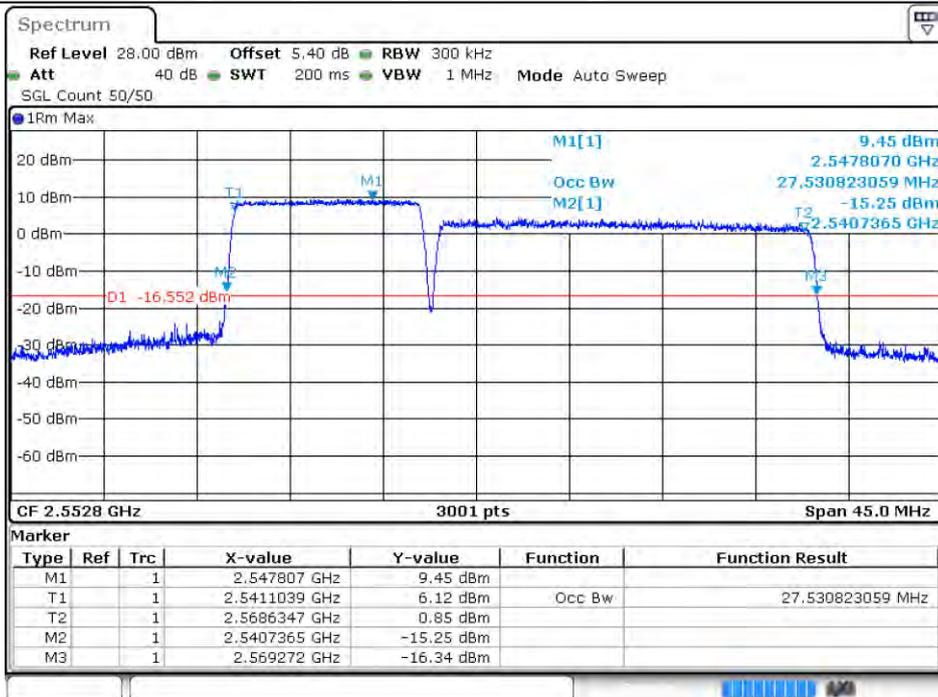
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**CA\_7C\_10+20\_QPSK\_21006+21150\_50RB#0+100RB#0**



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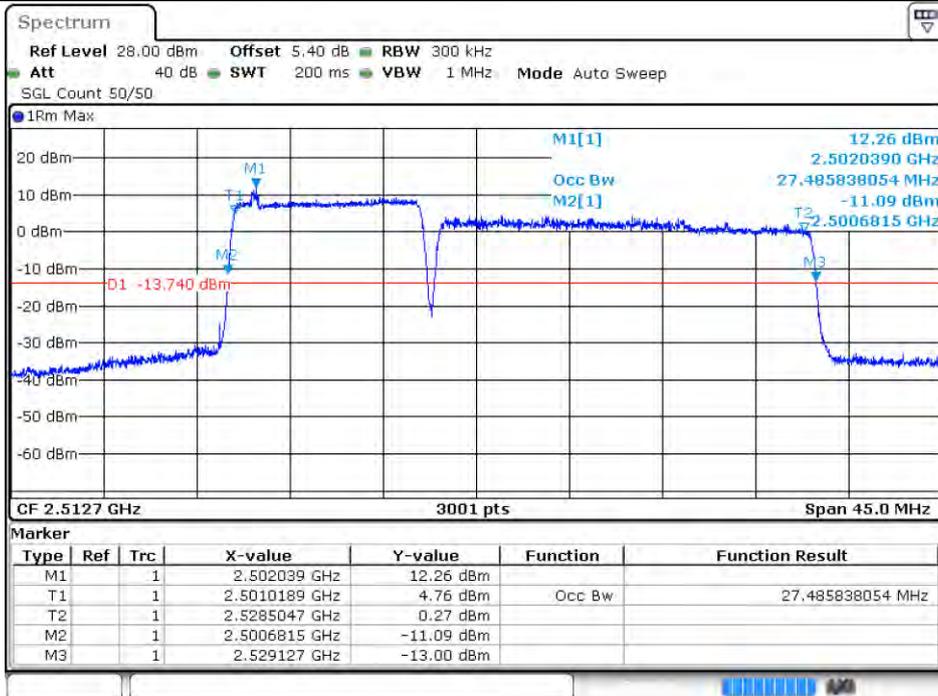
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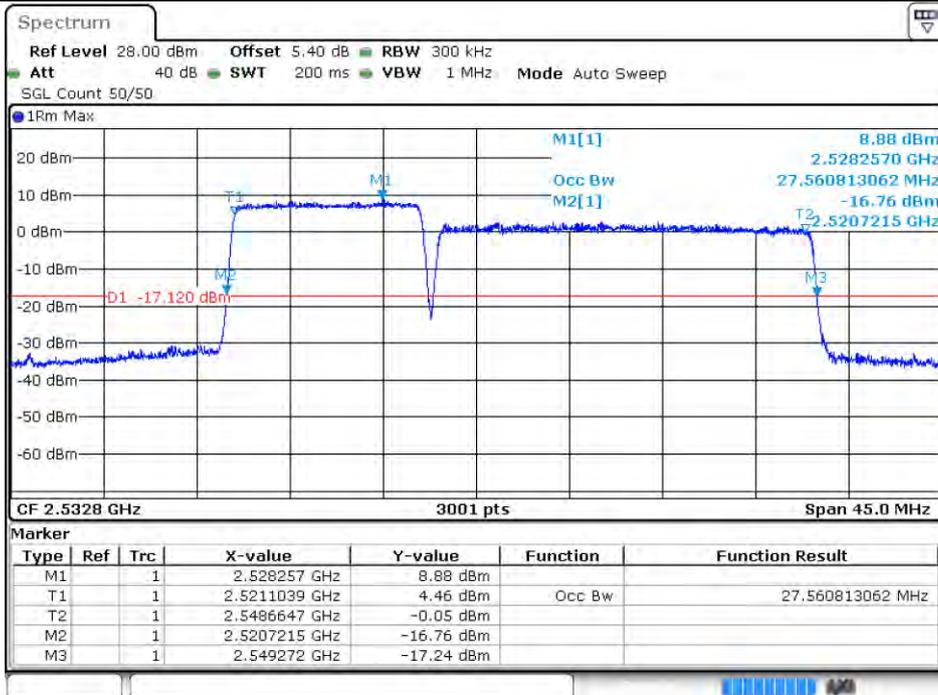


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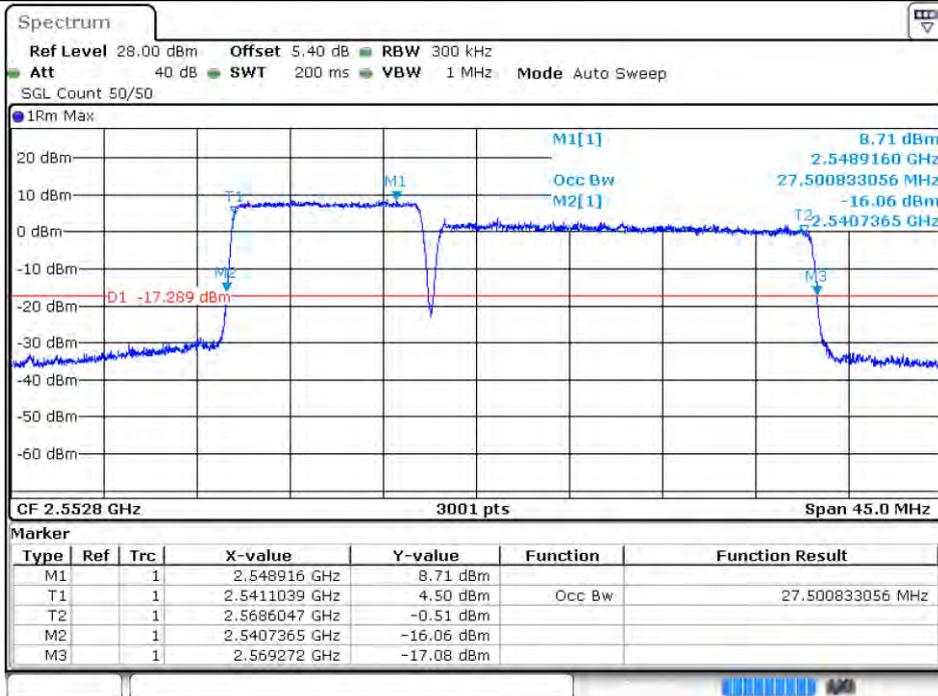
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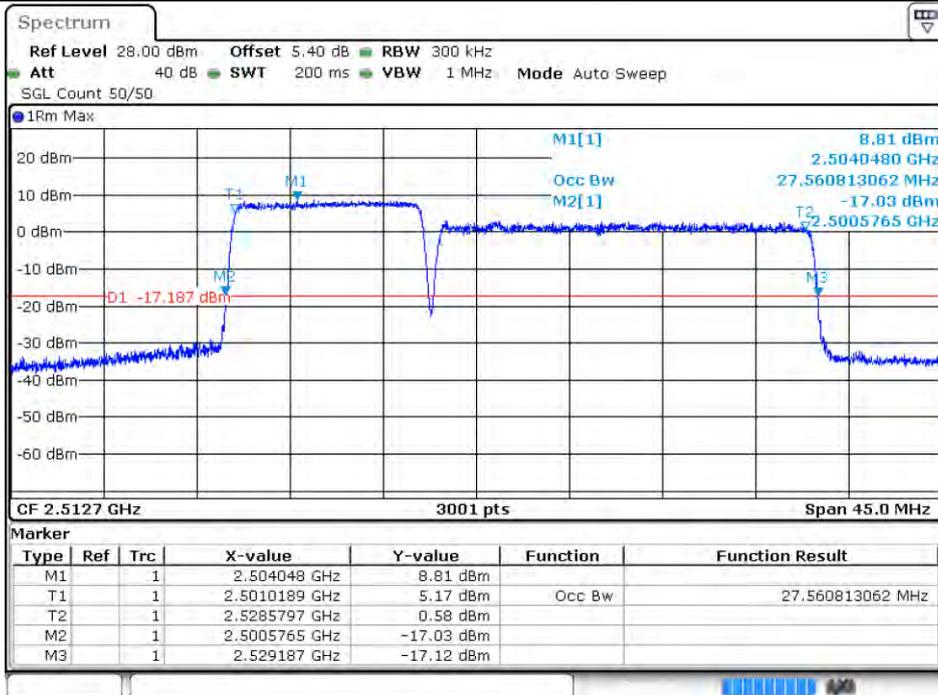


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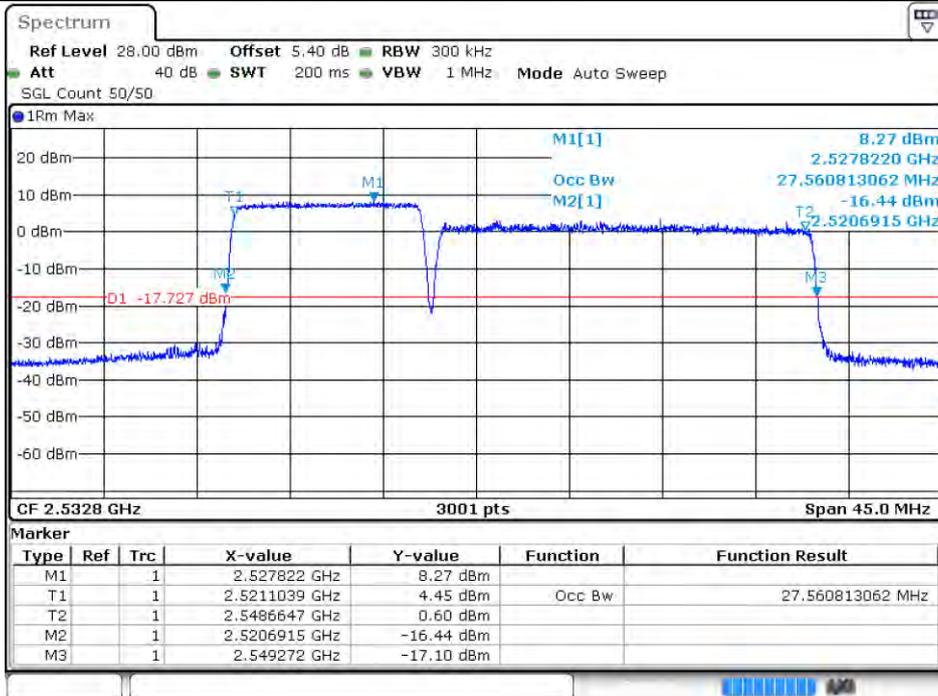
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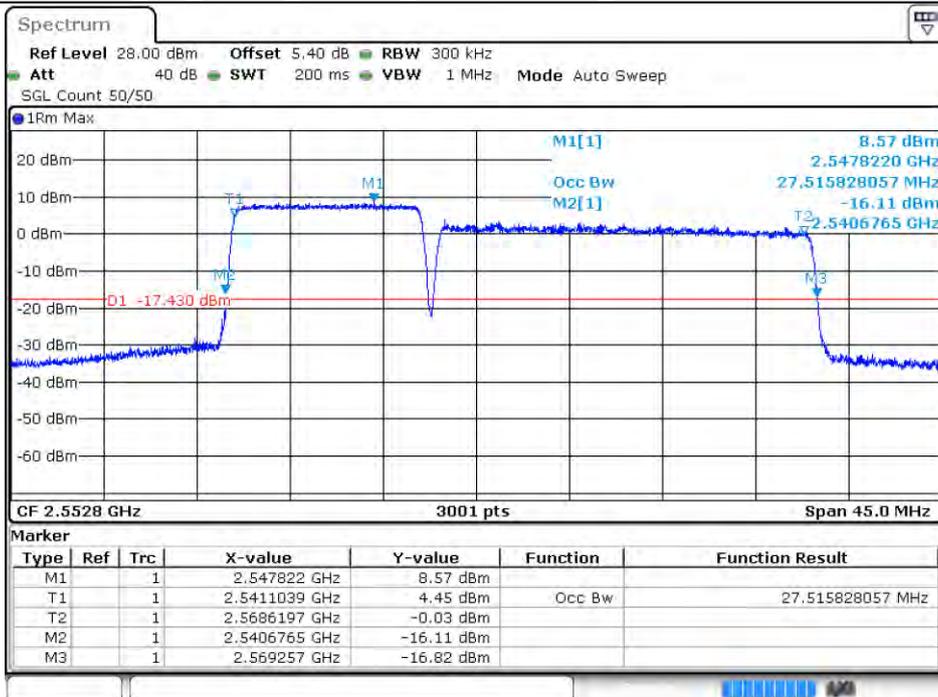


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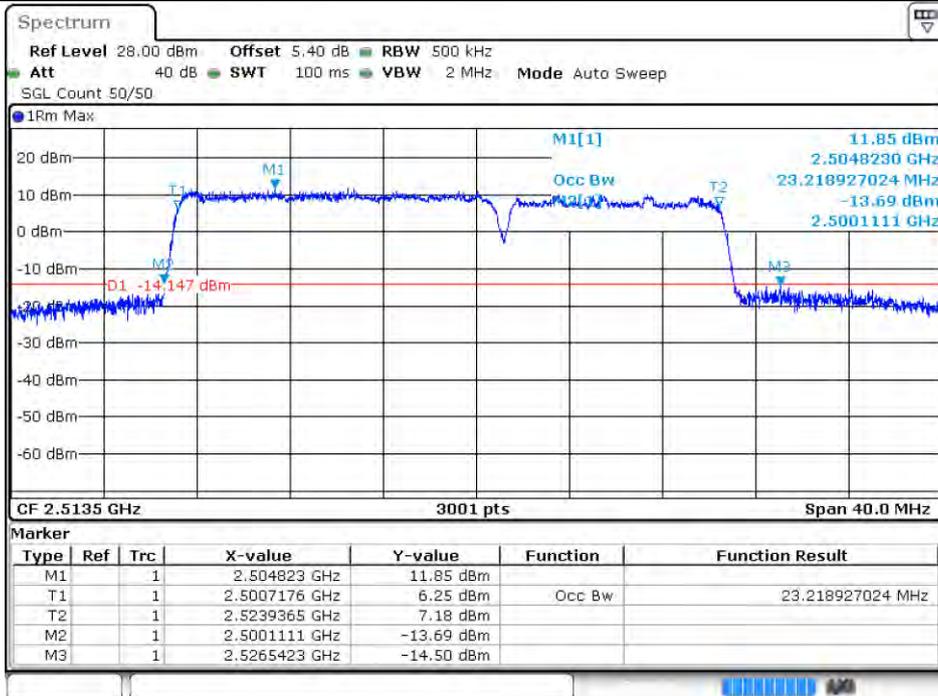
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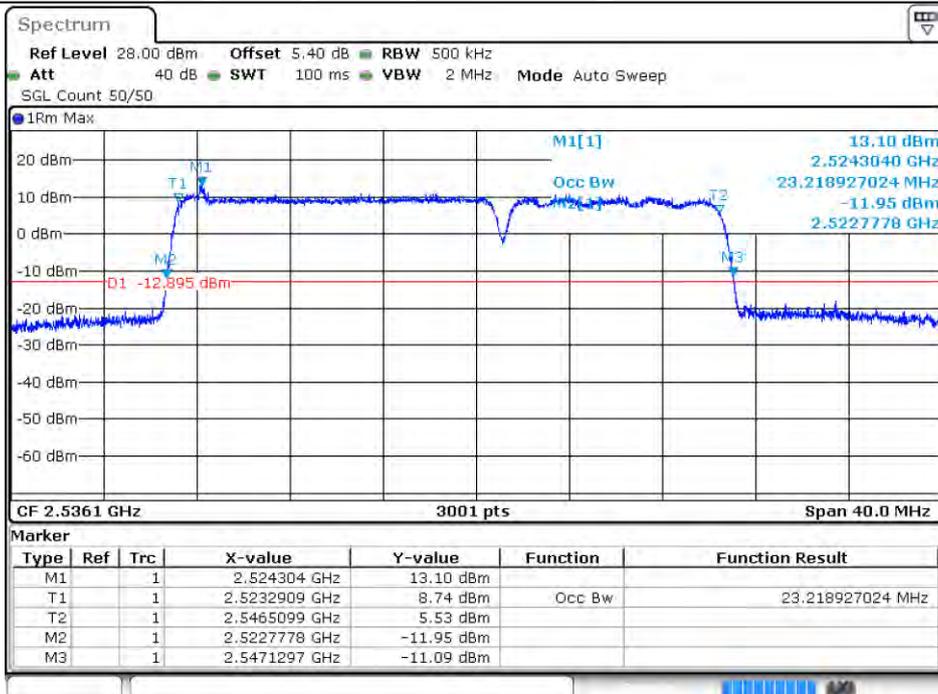


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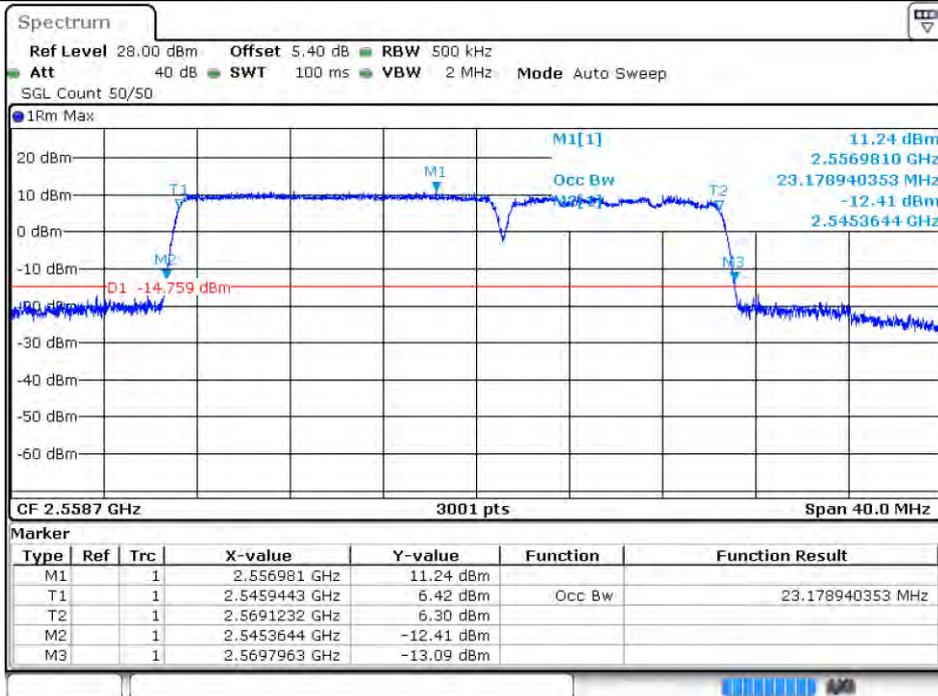
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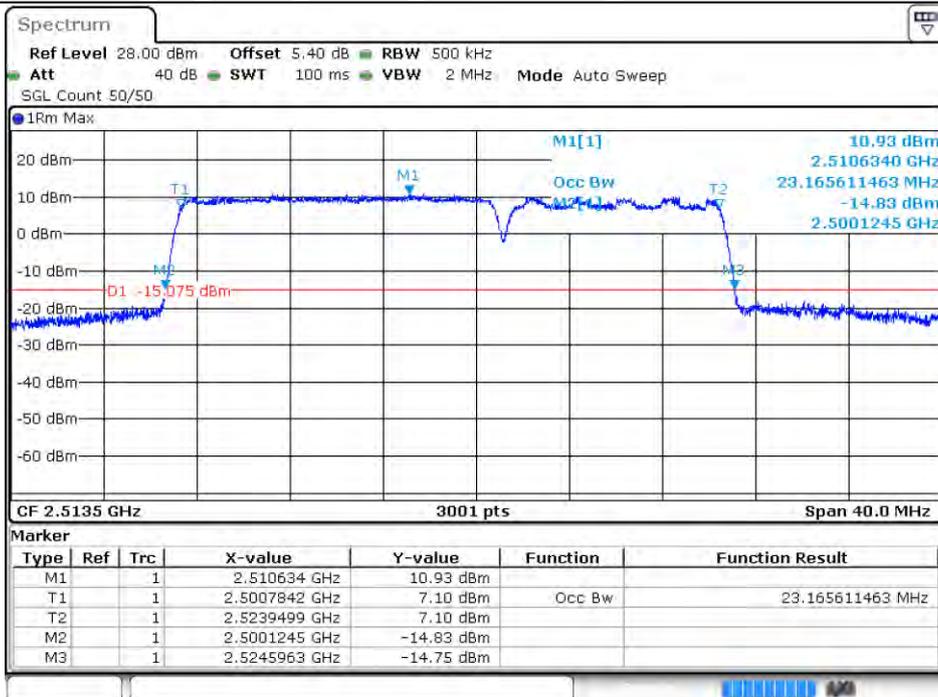


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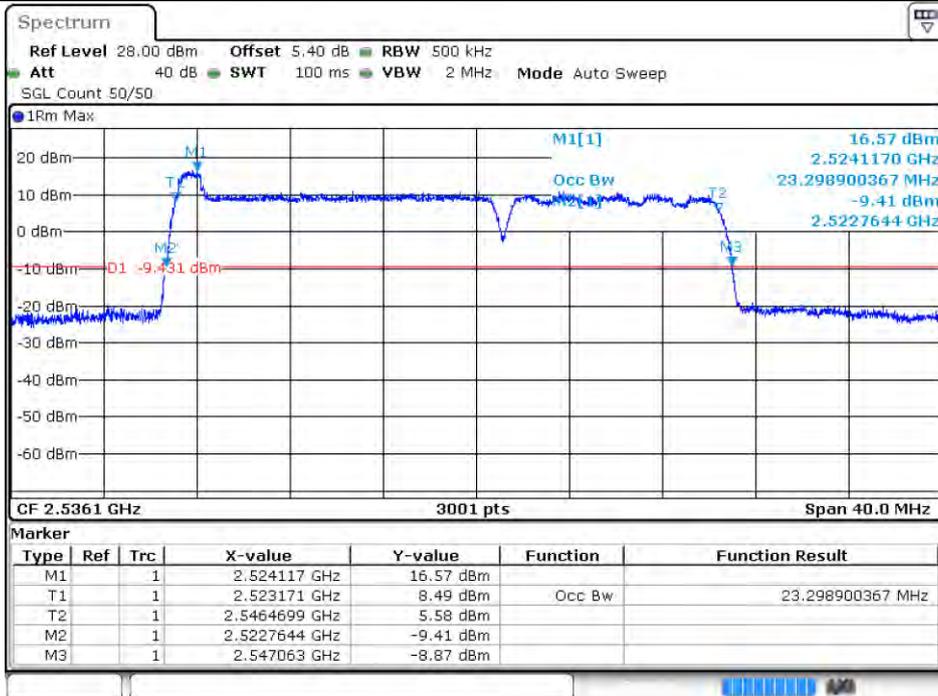
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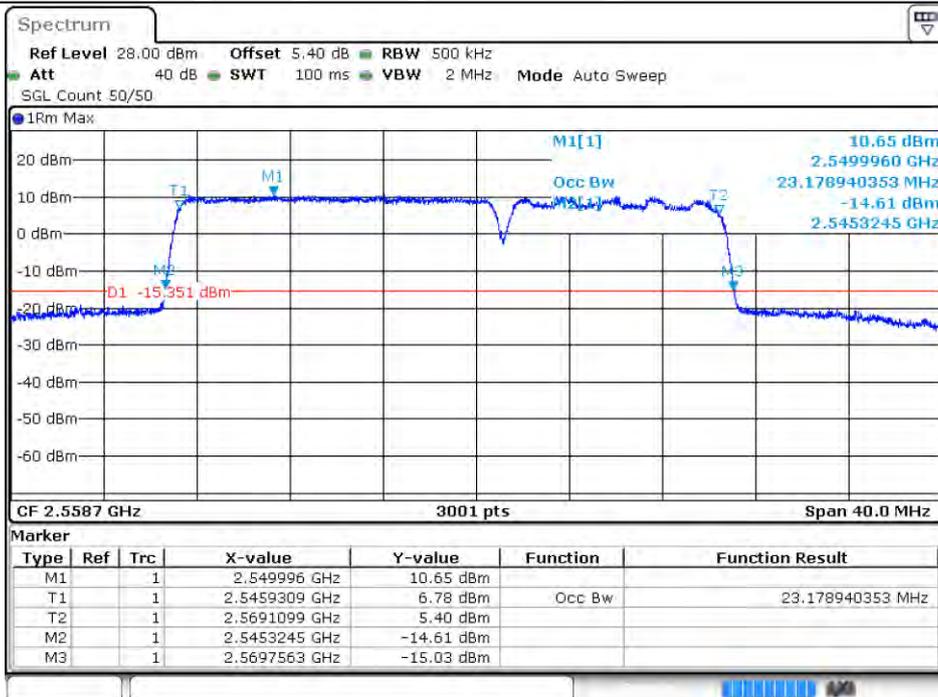


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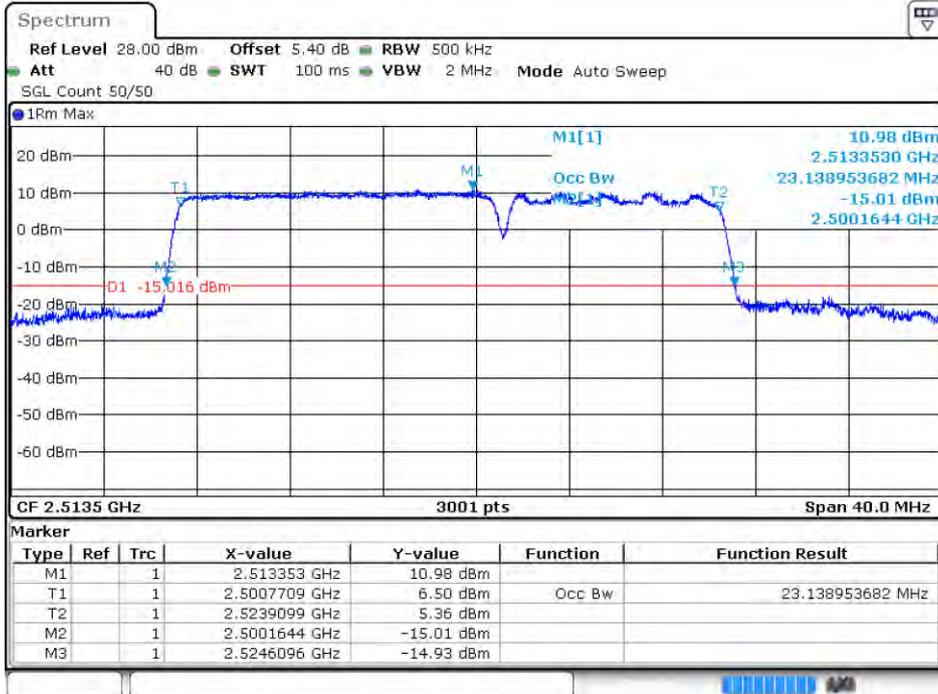
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Date: 14.OCT.2020 21:41:03

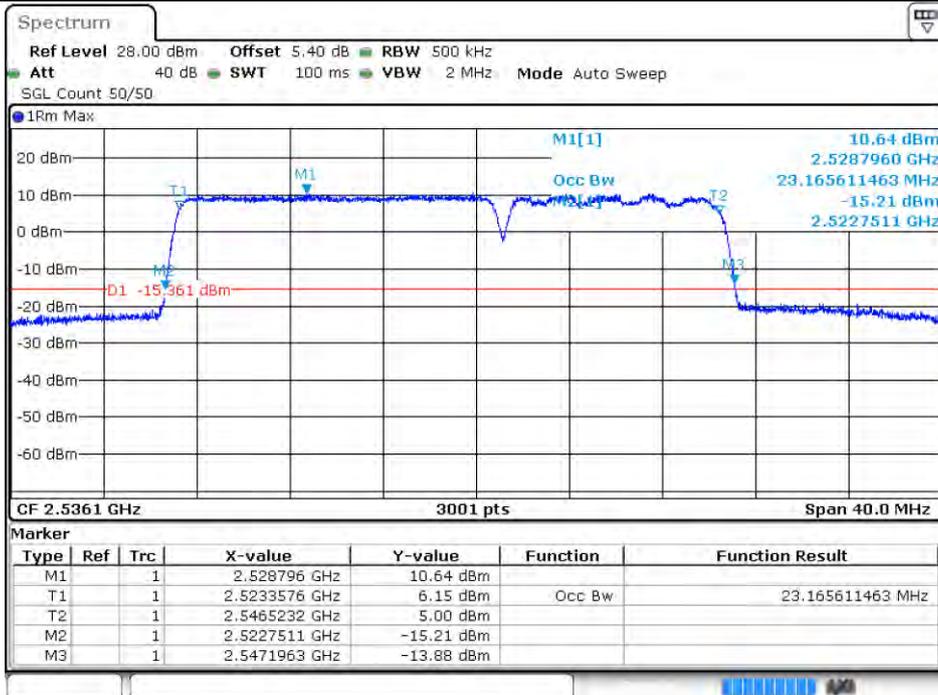


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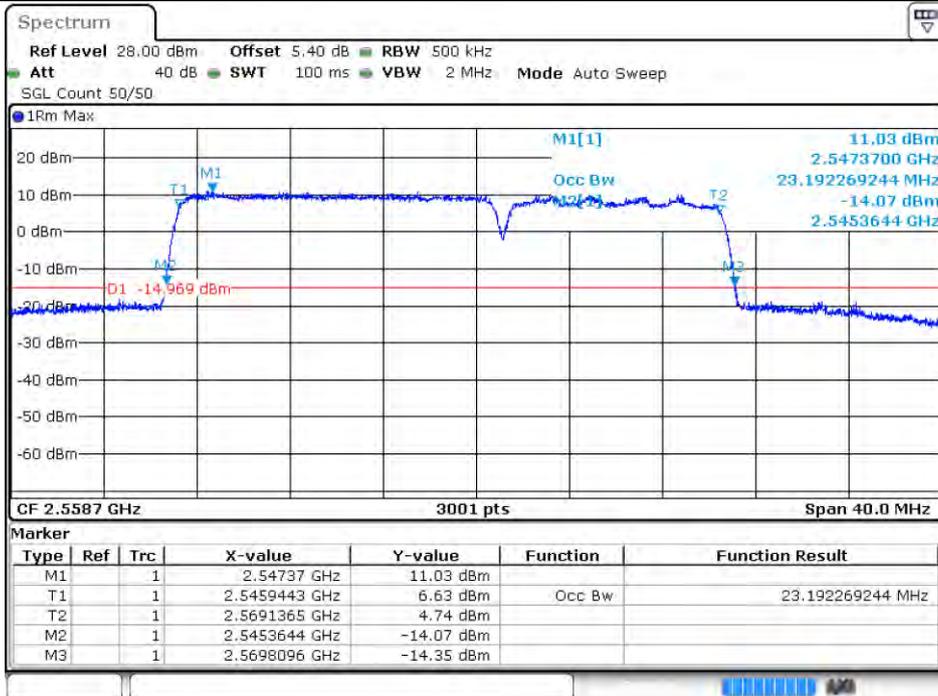
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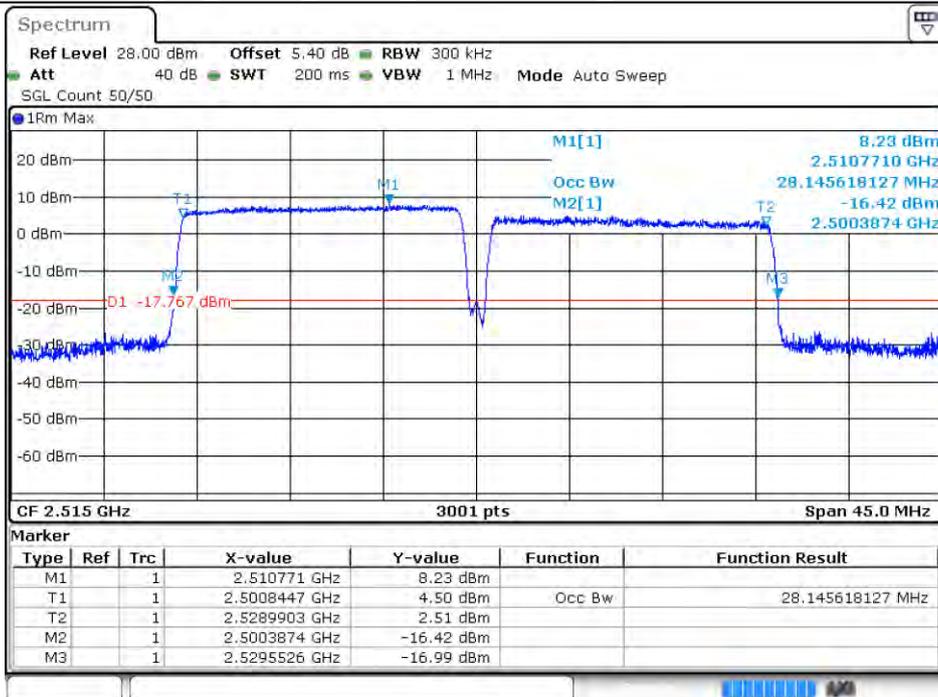


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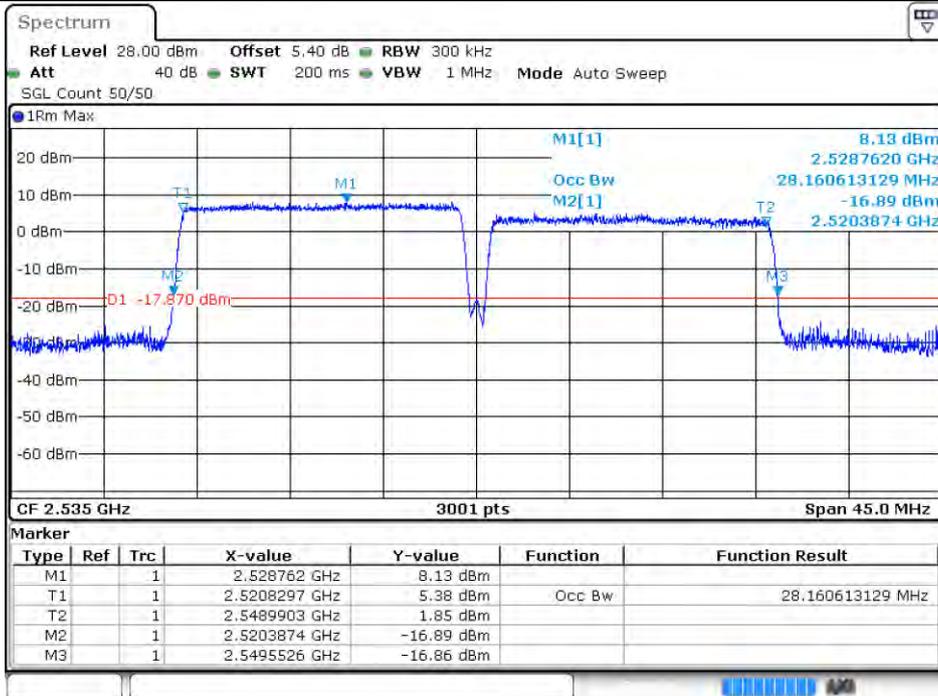
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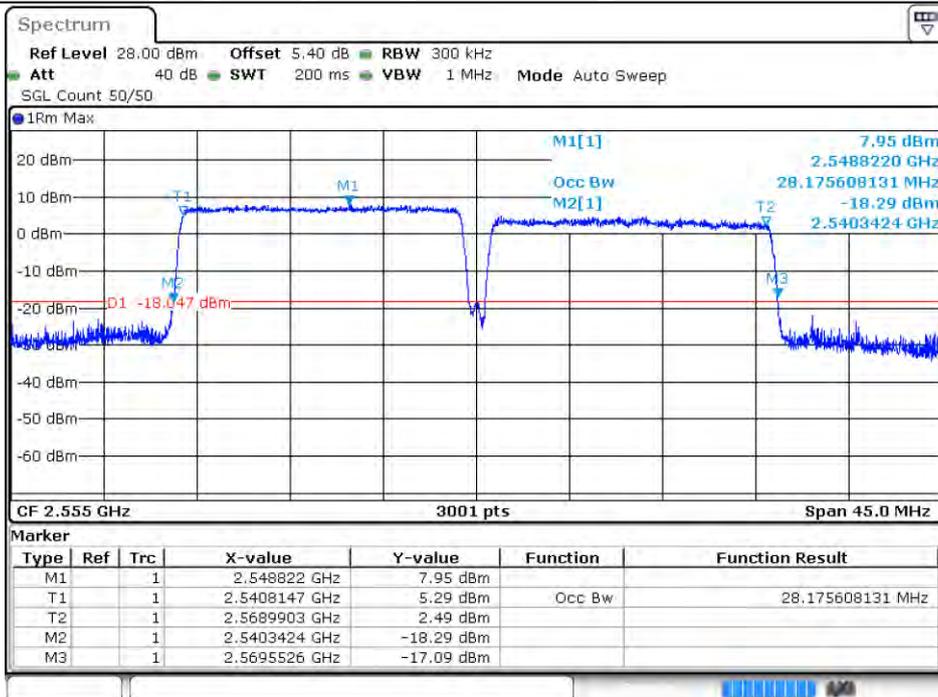


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Date: 14.OCT.2020 21:42:33

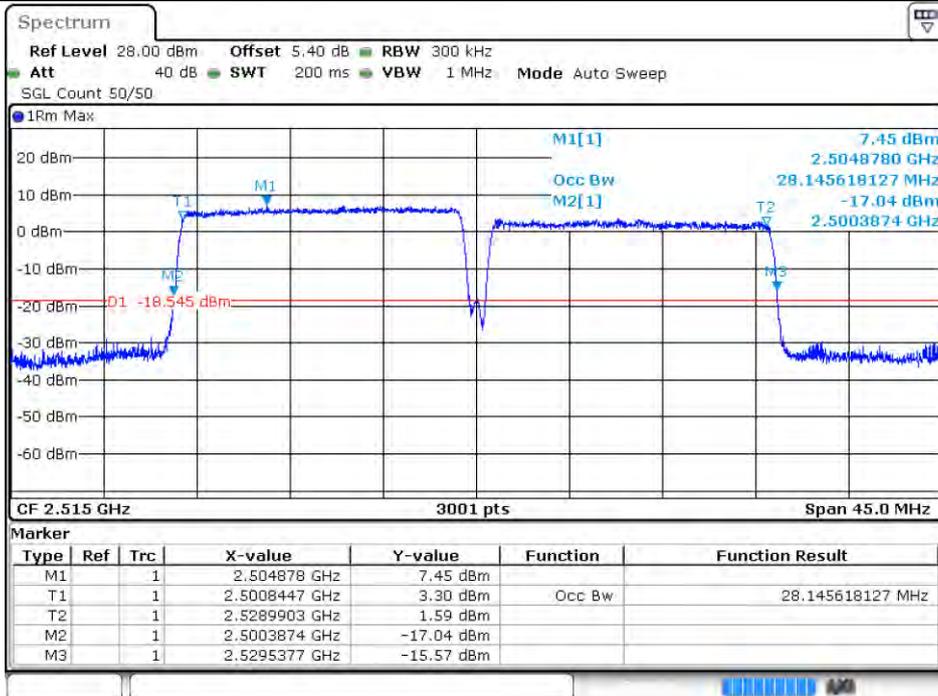
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Date: 14.OCT.2020 21:43:26

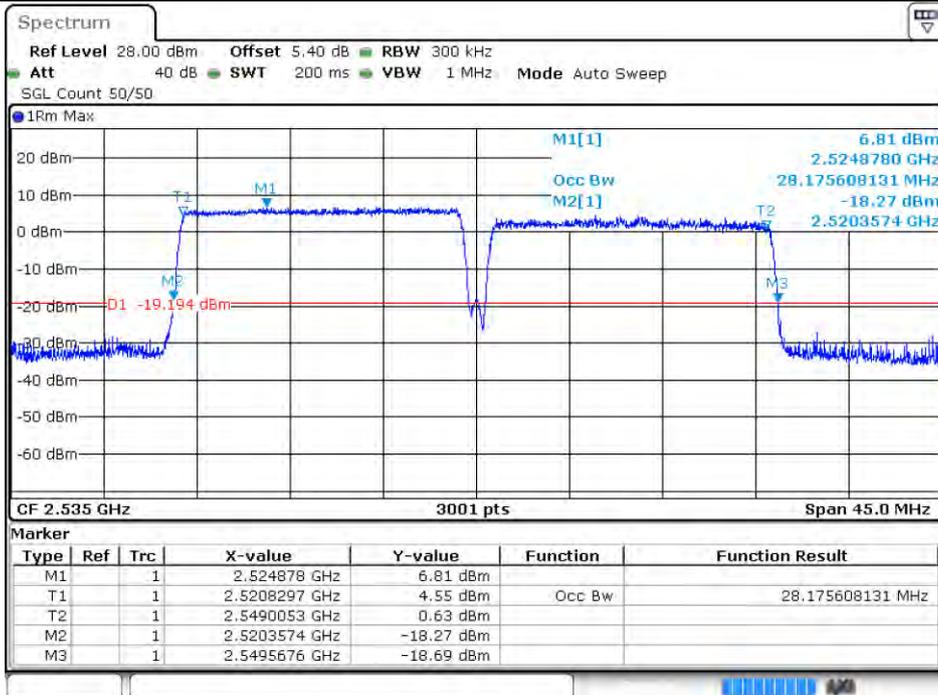


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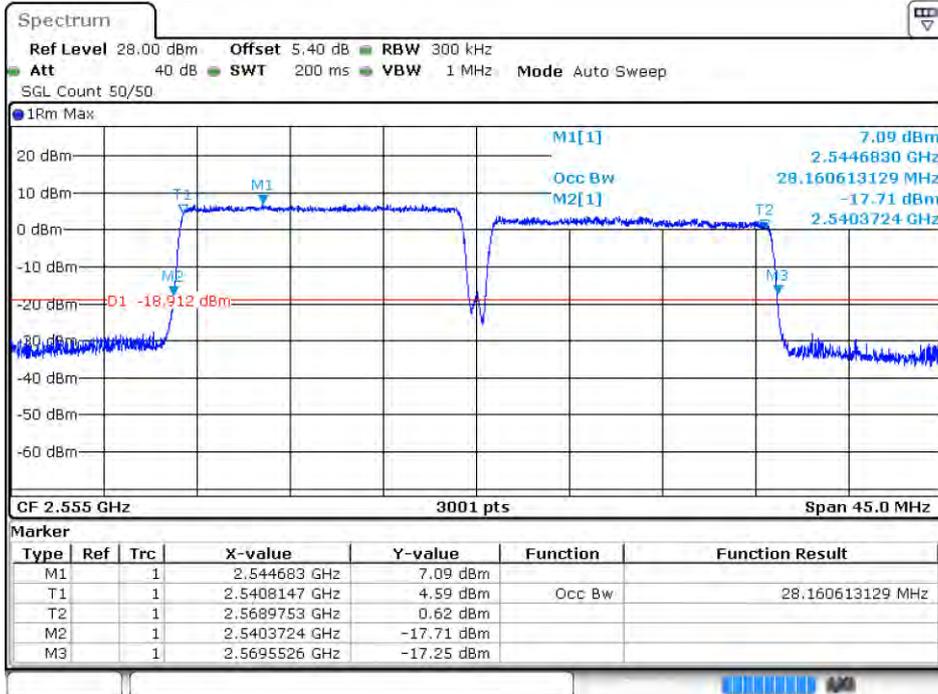
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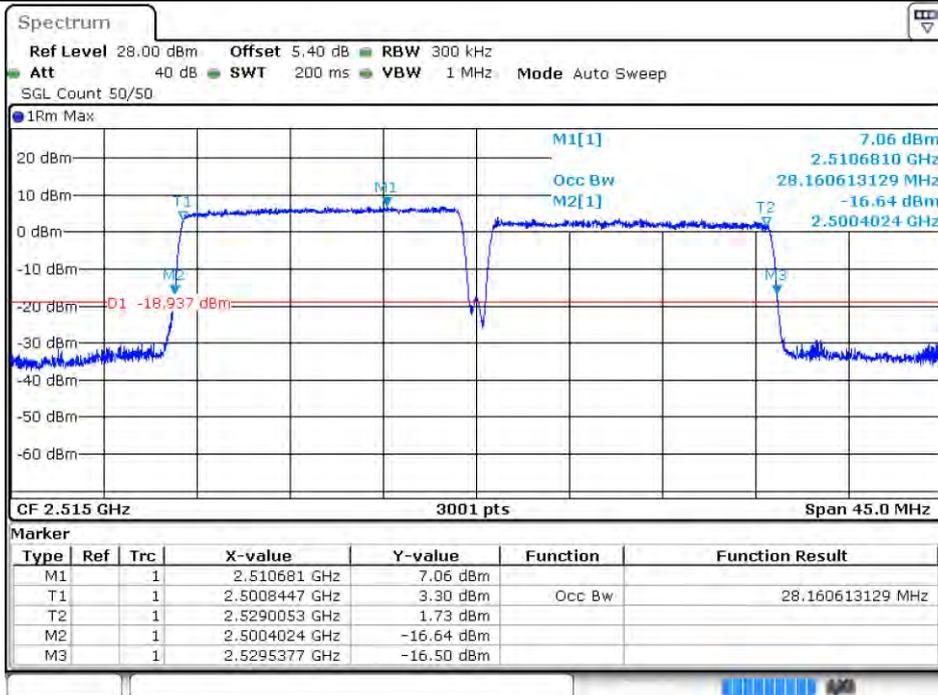


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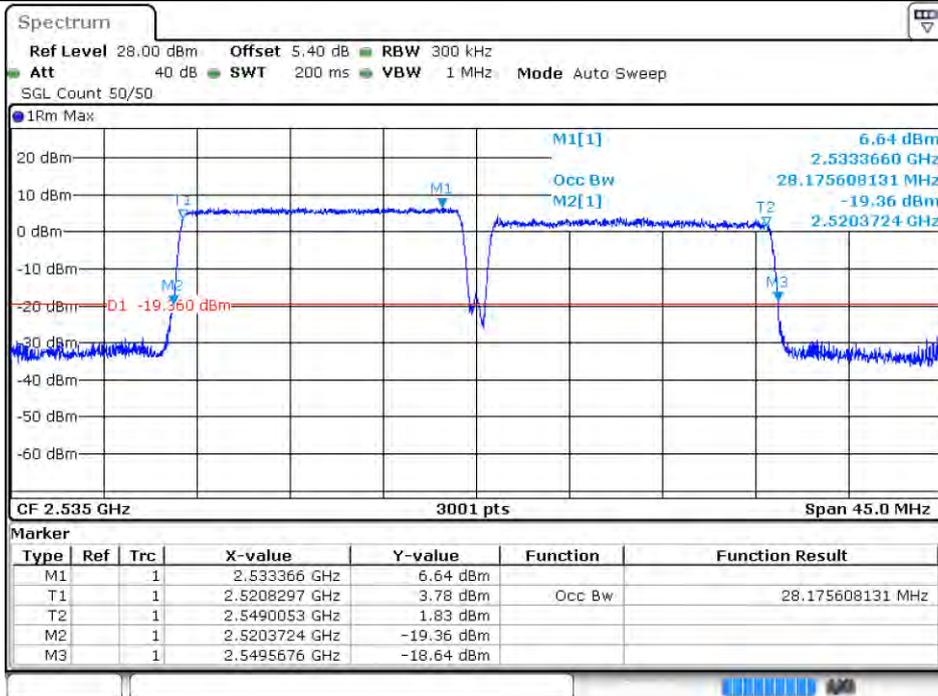
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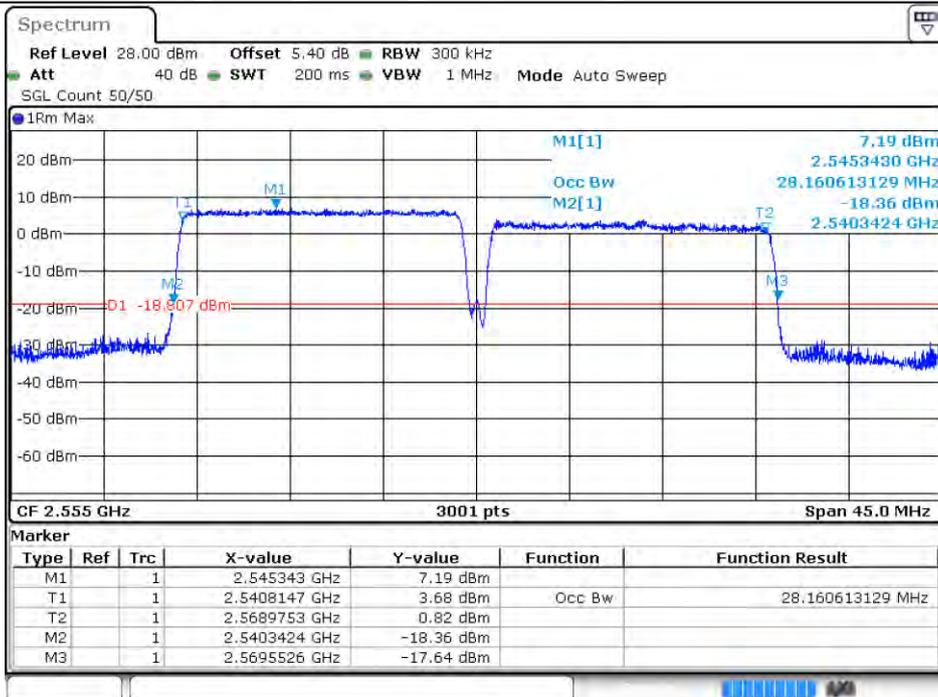


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Date: 14.OCT.2020 21:43:05

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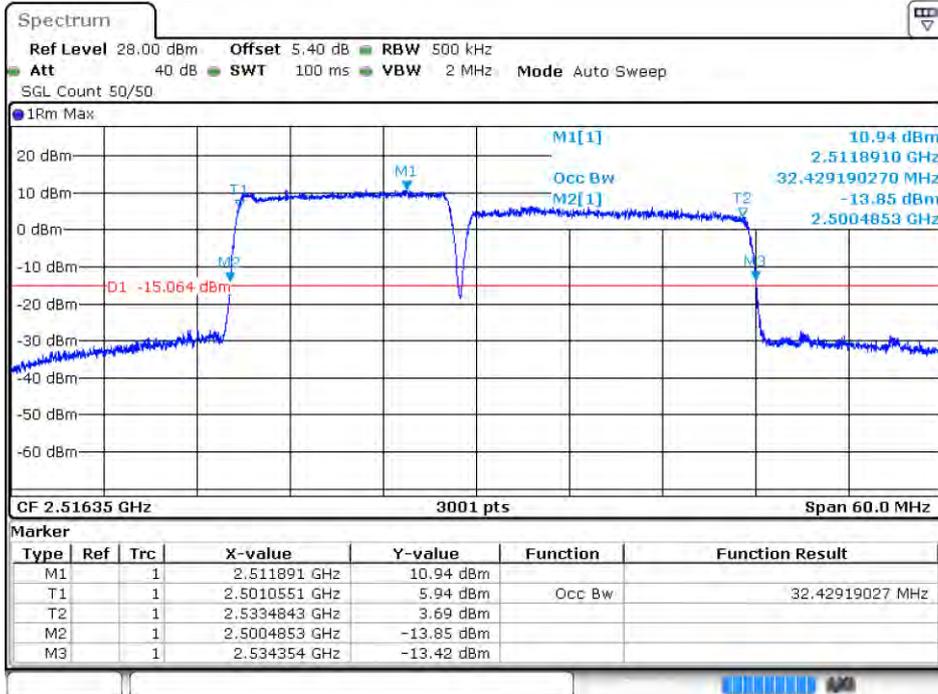
Date: 14.OCT.2020 21:43:58



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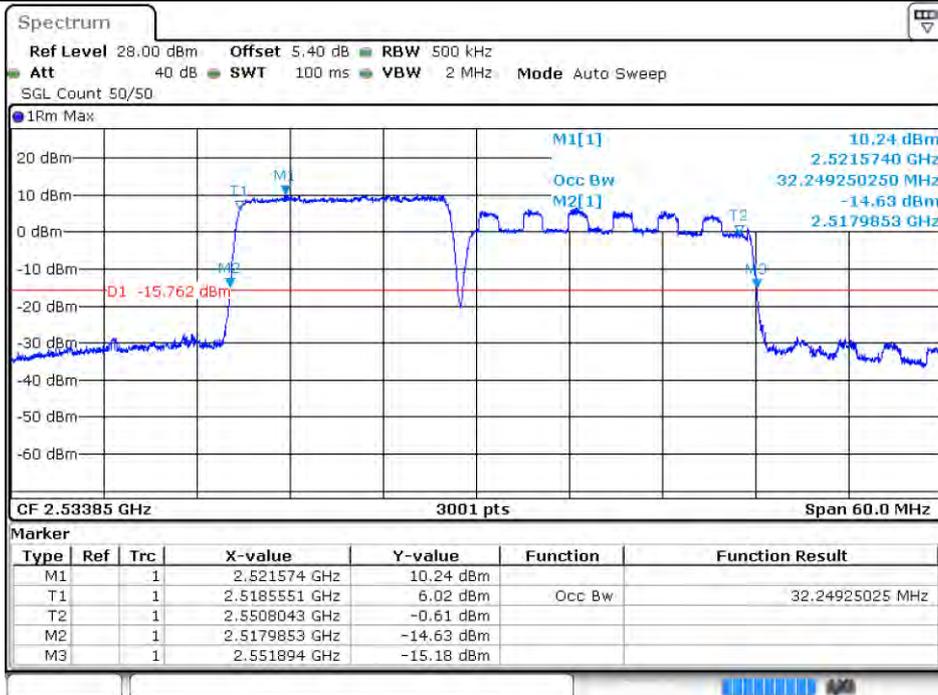
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Date: 14.OCT.2020 21:44:20

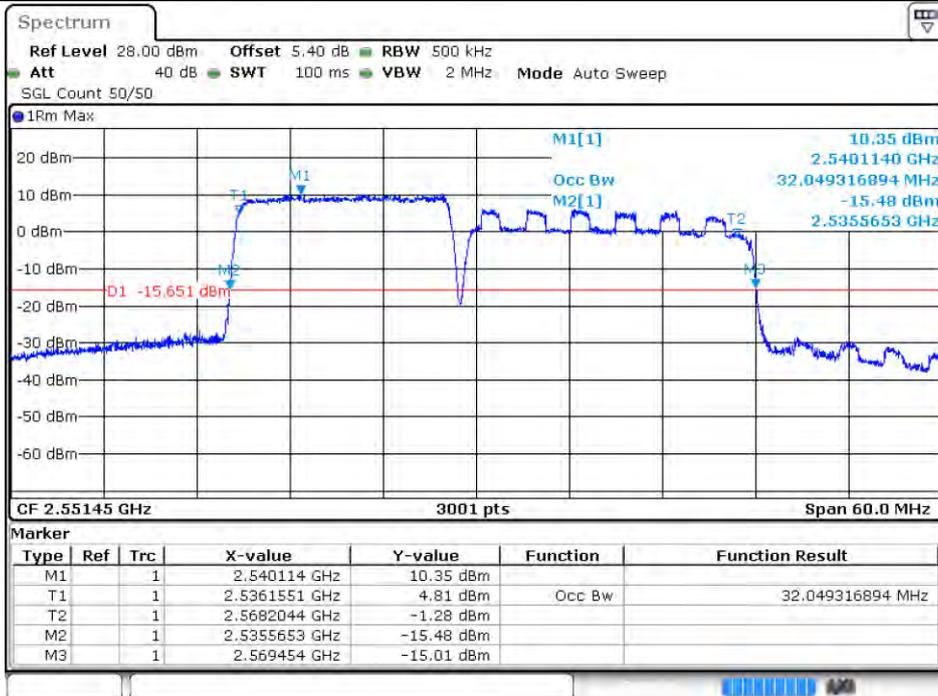
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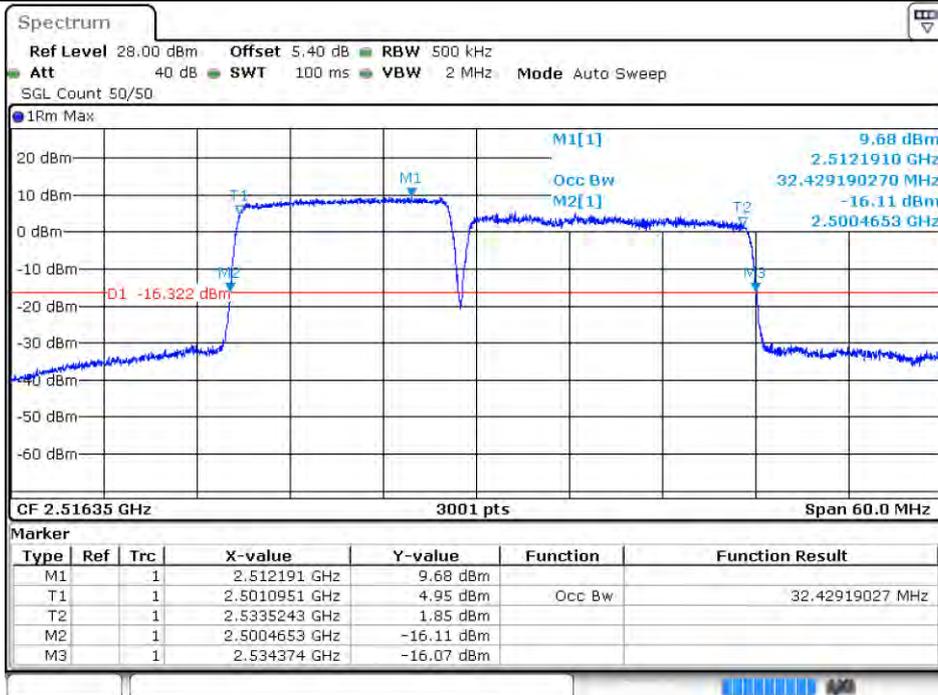


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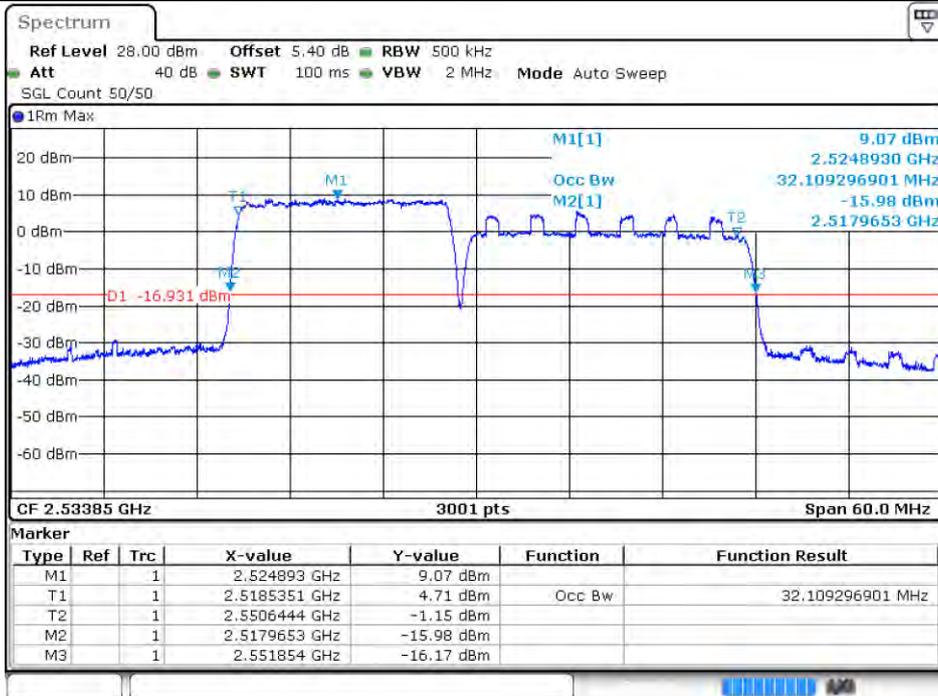
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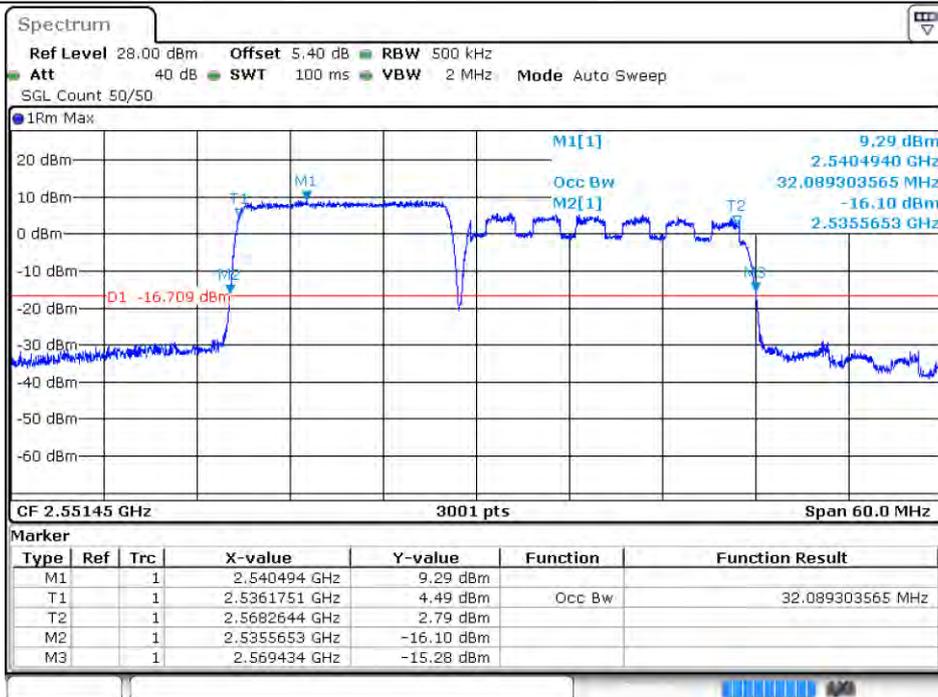


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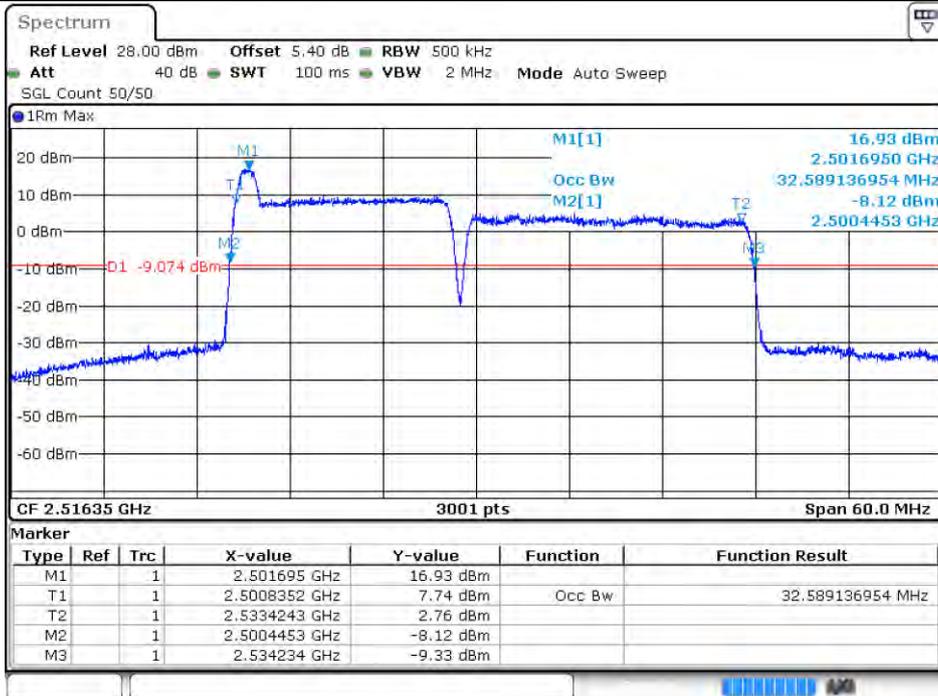
Date: 14.OCT.2020 21:45:58



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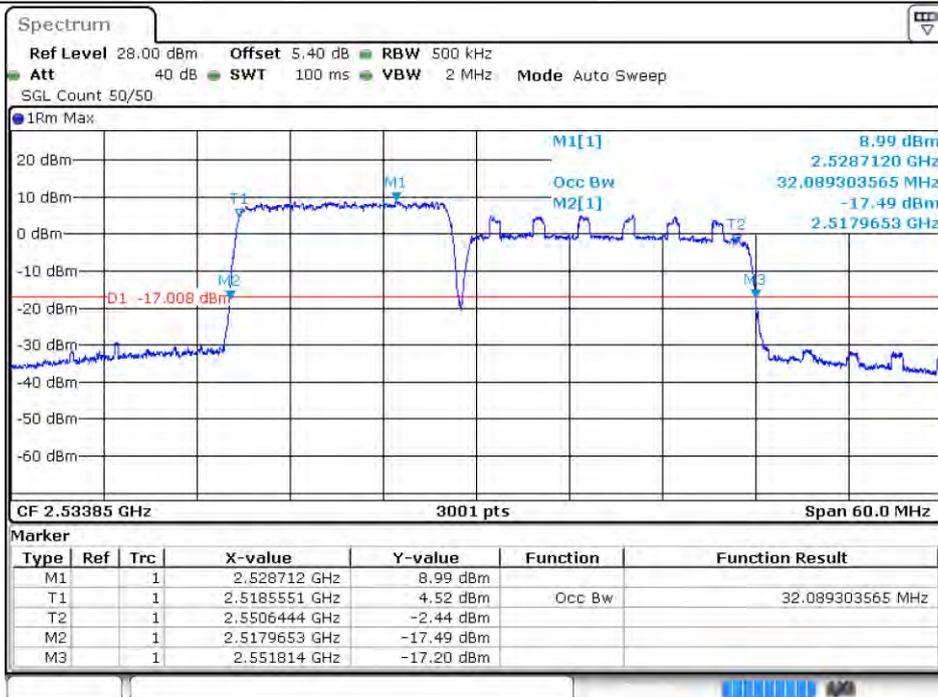
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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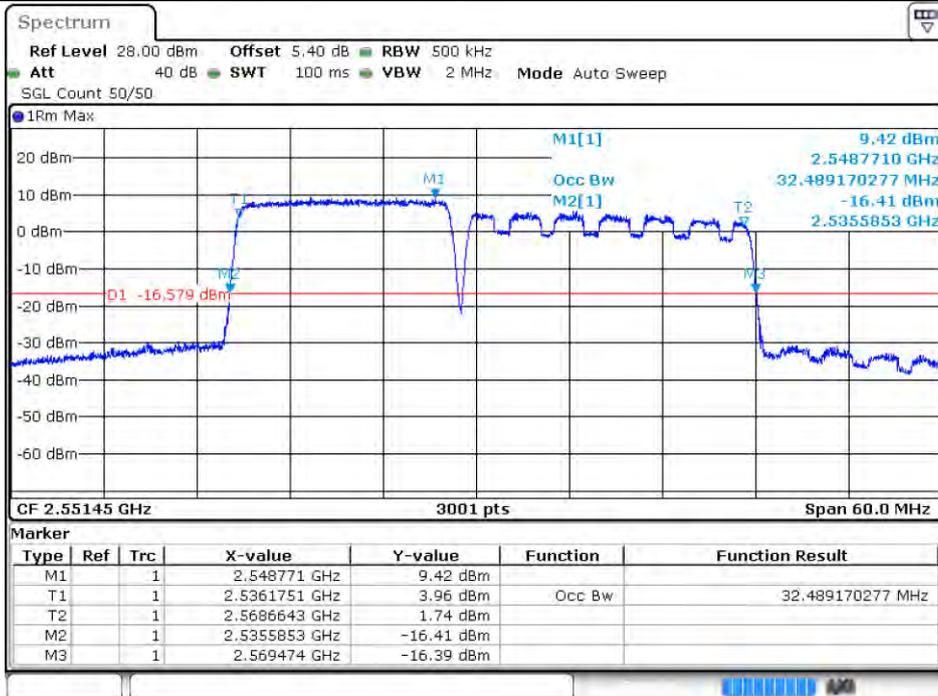
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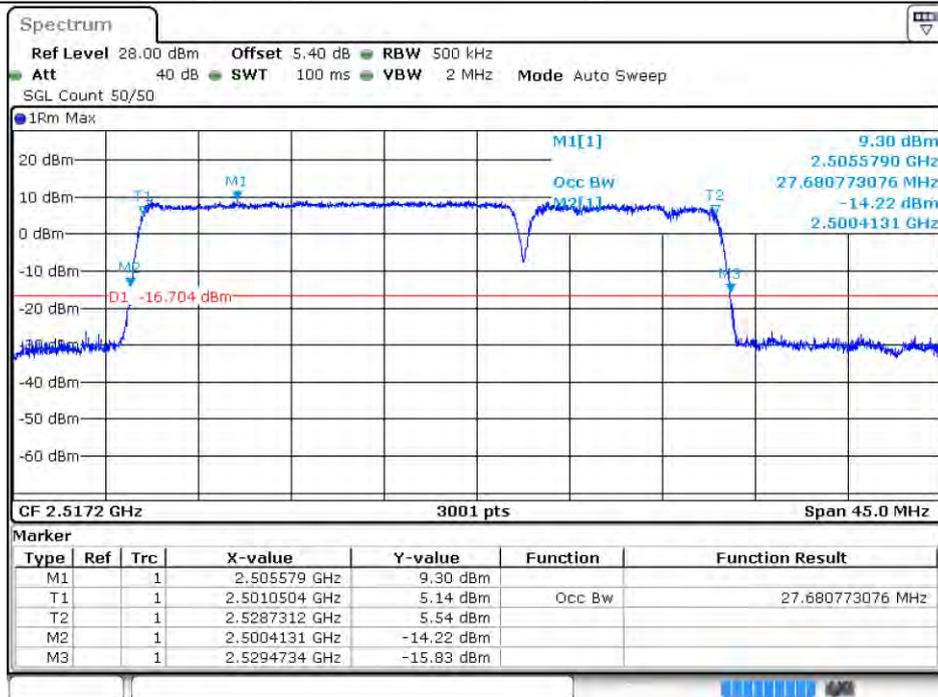


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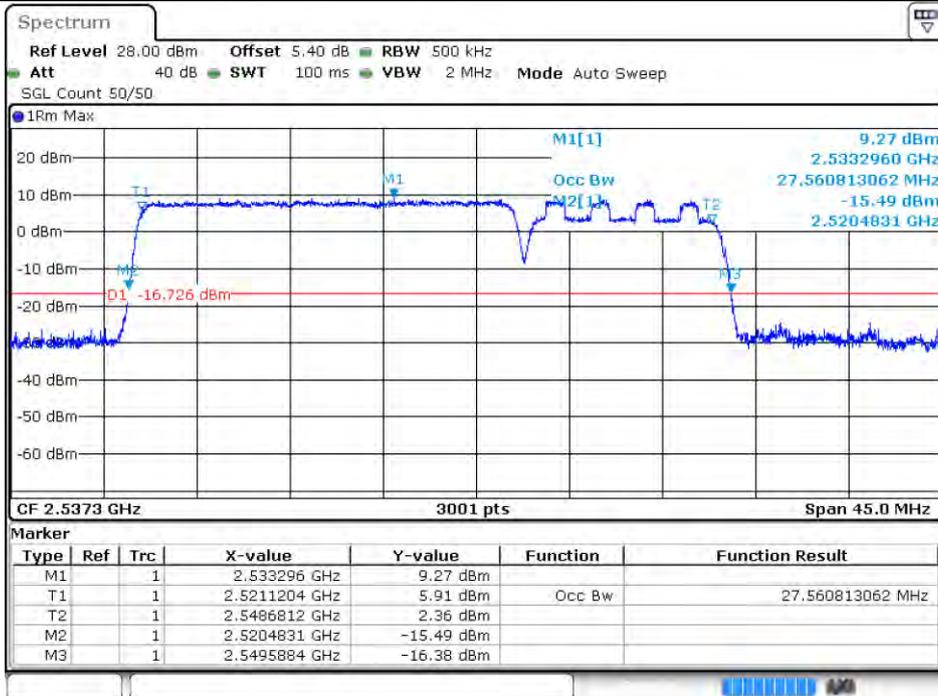
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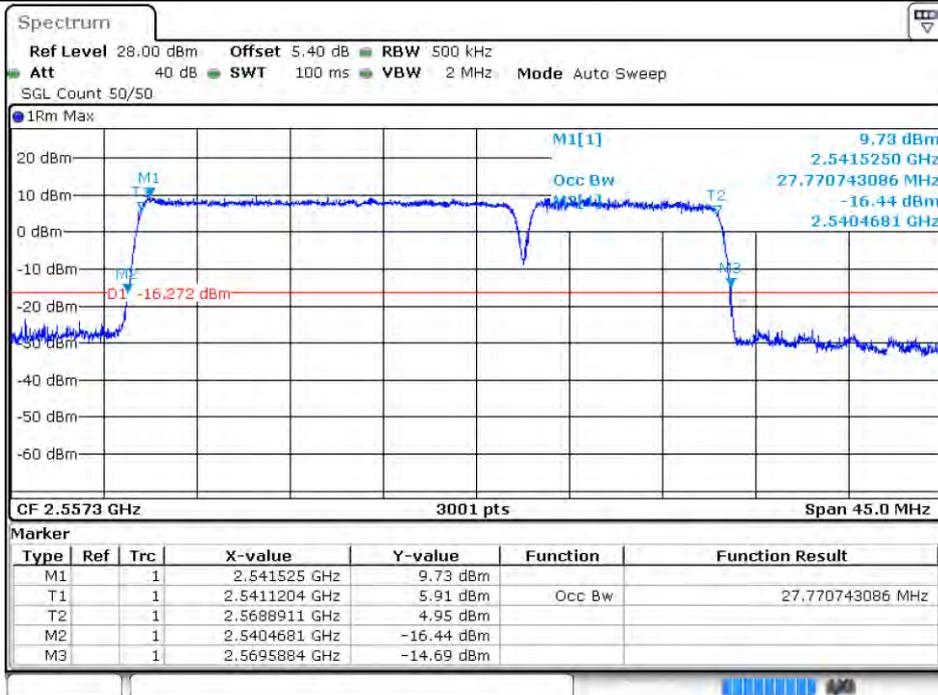


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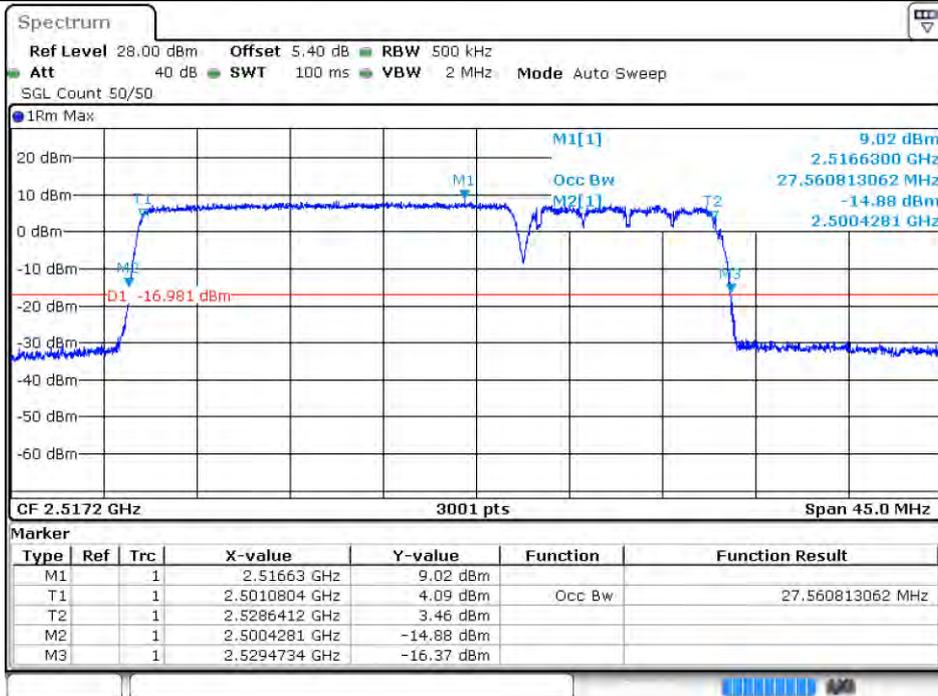


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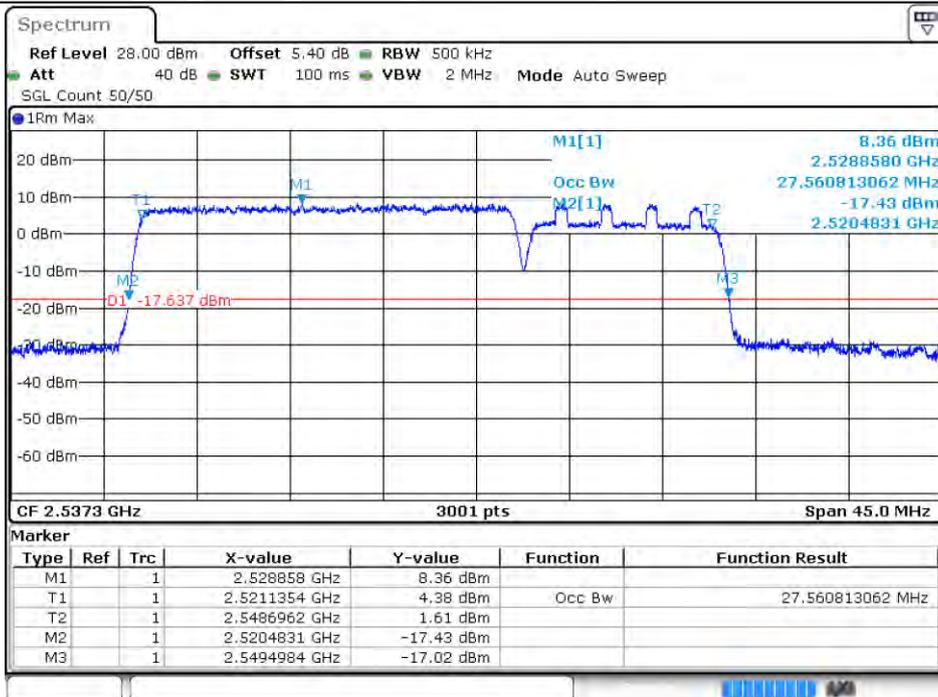


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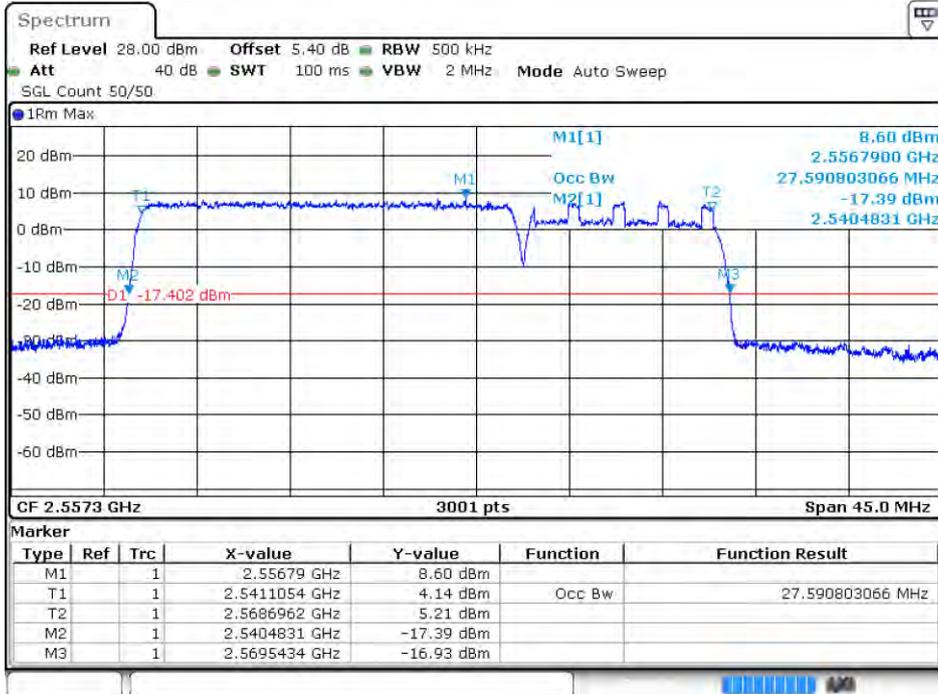
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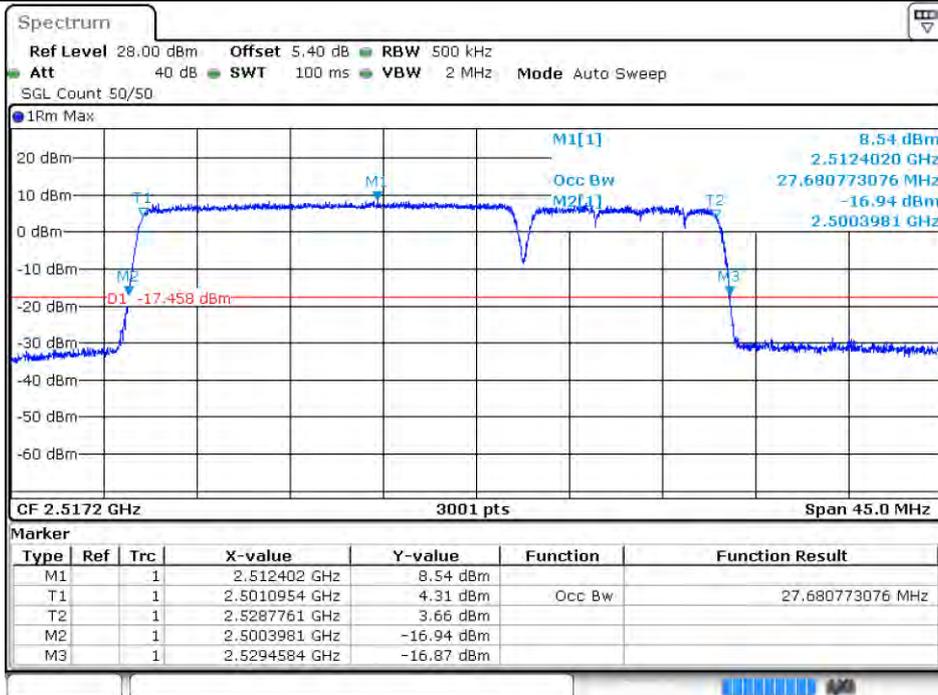


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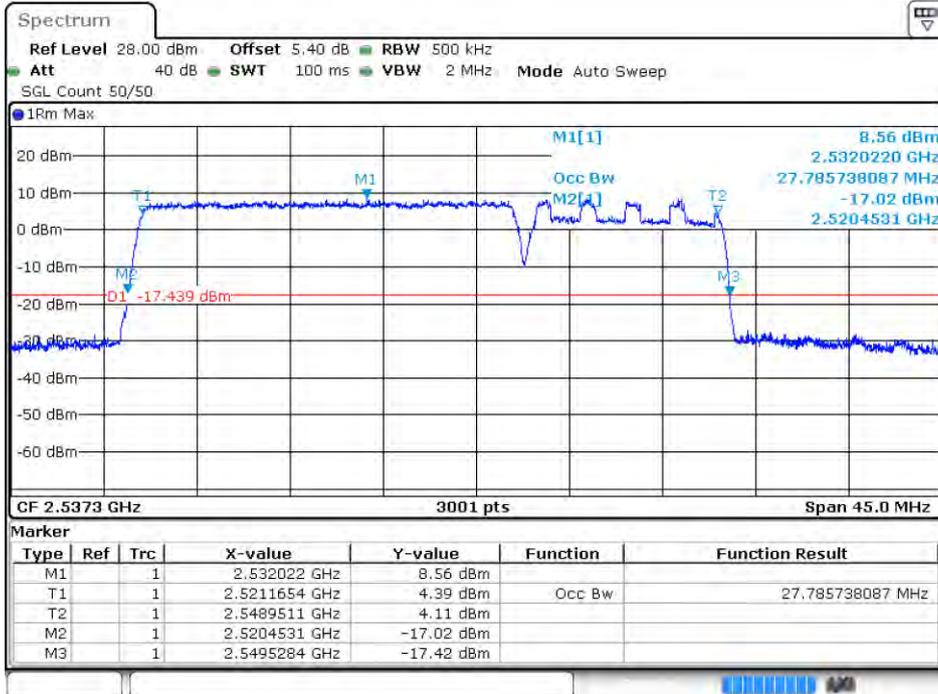
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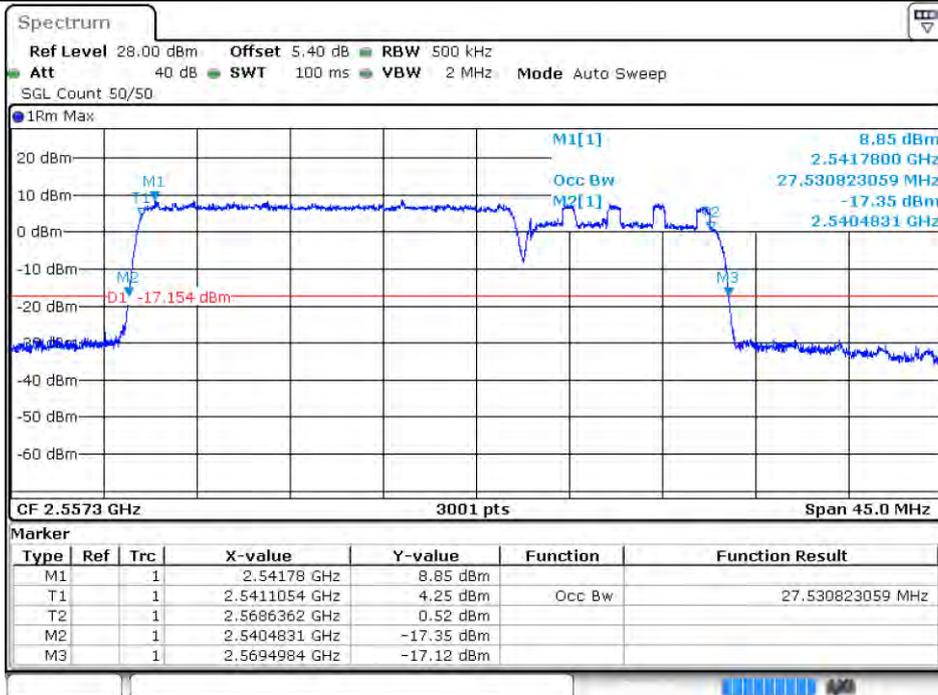


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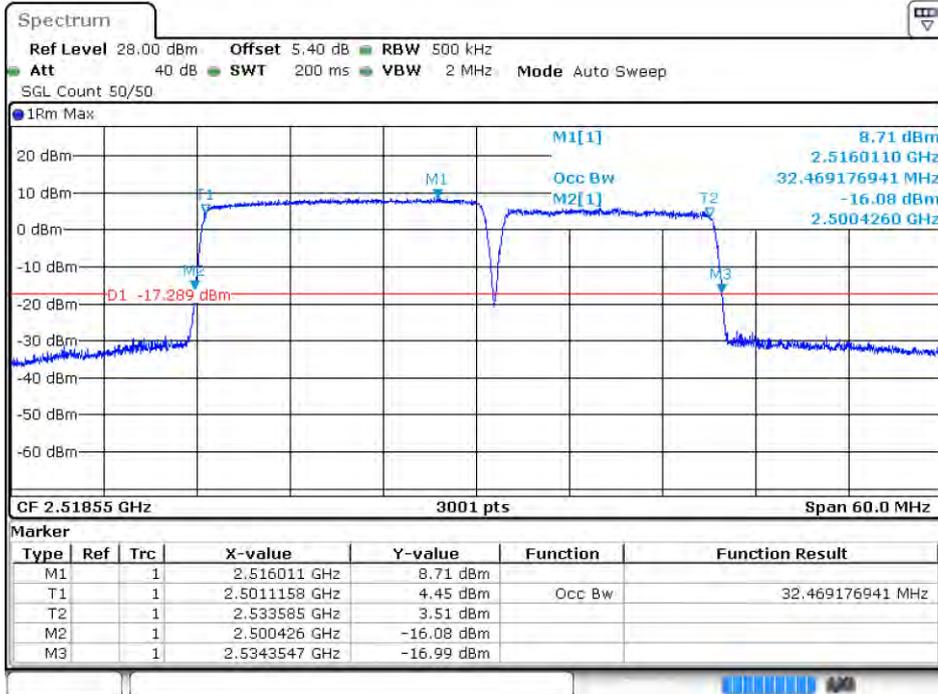
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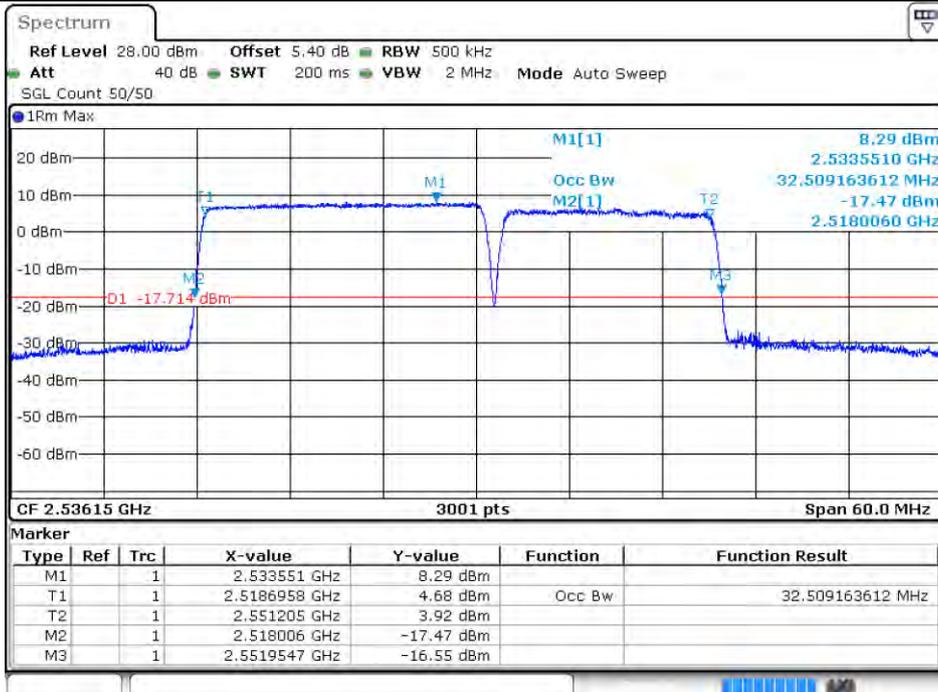


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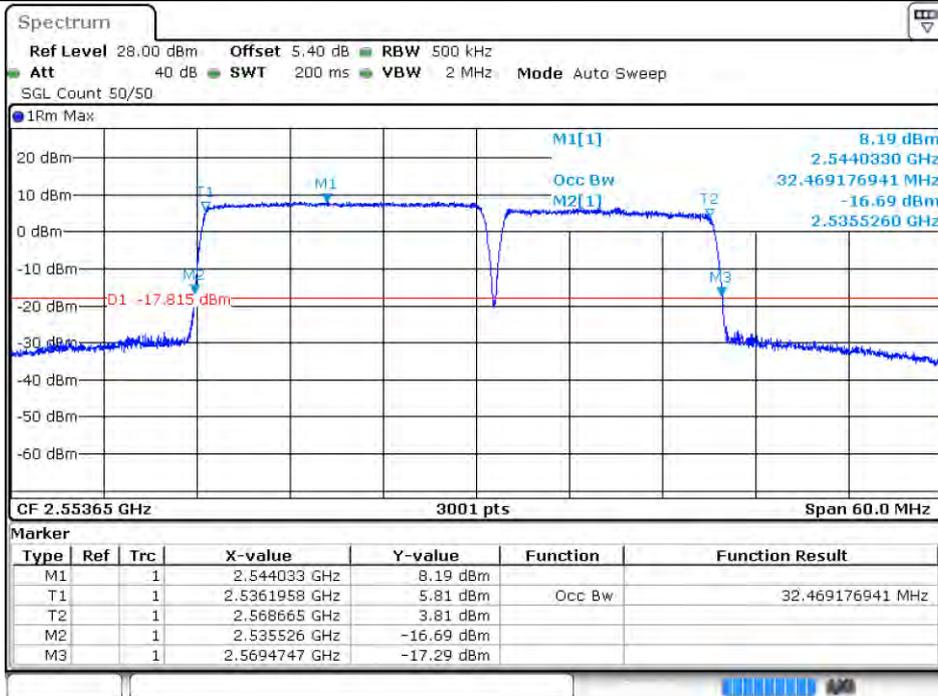
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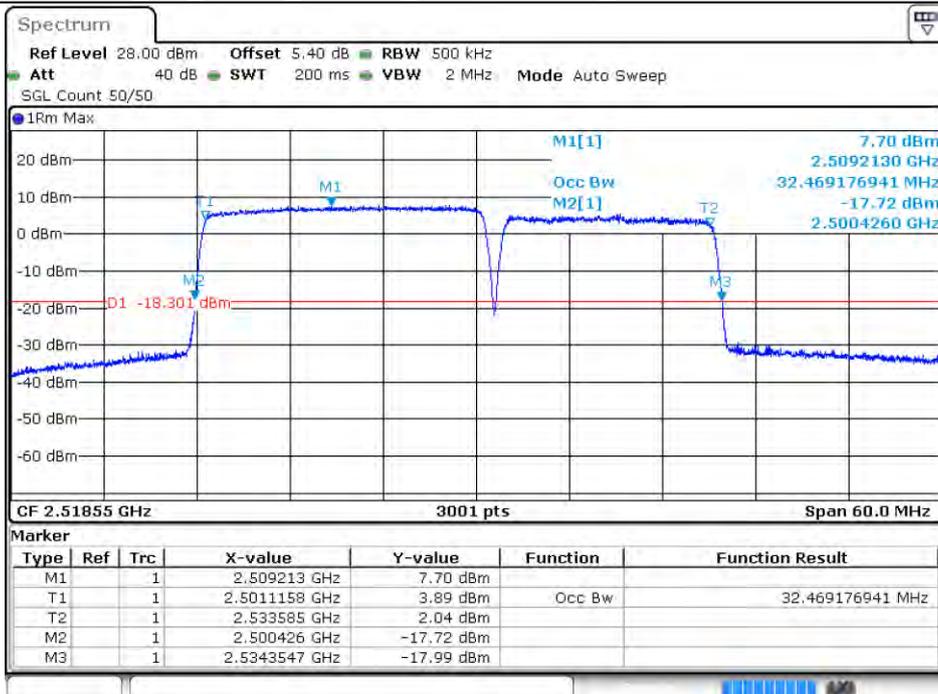


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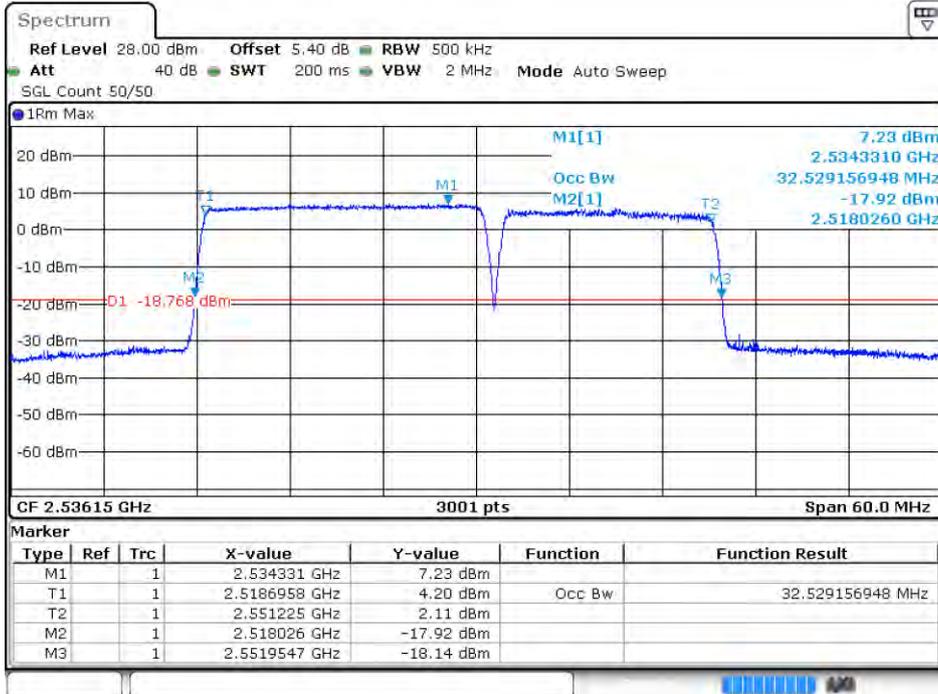
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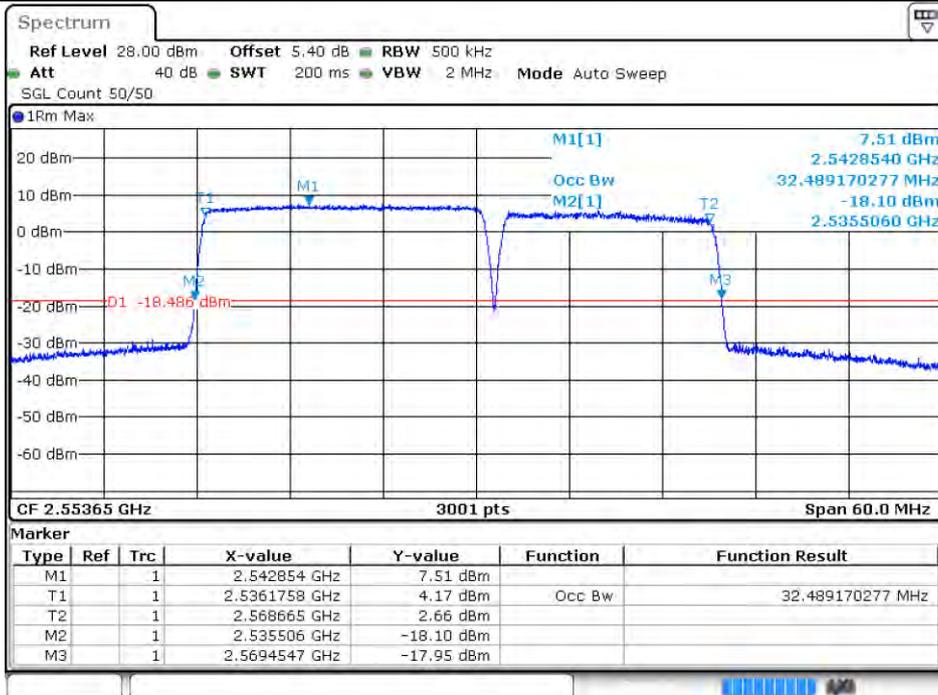


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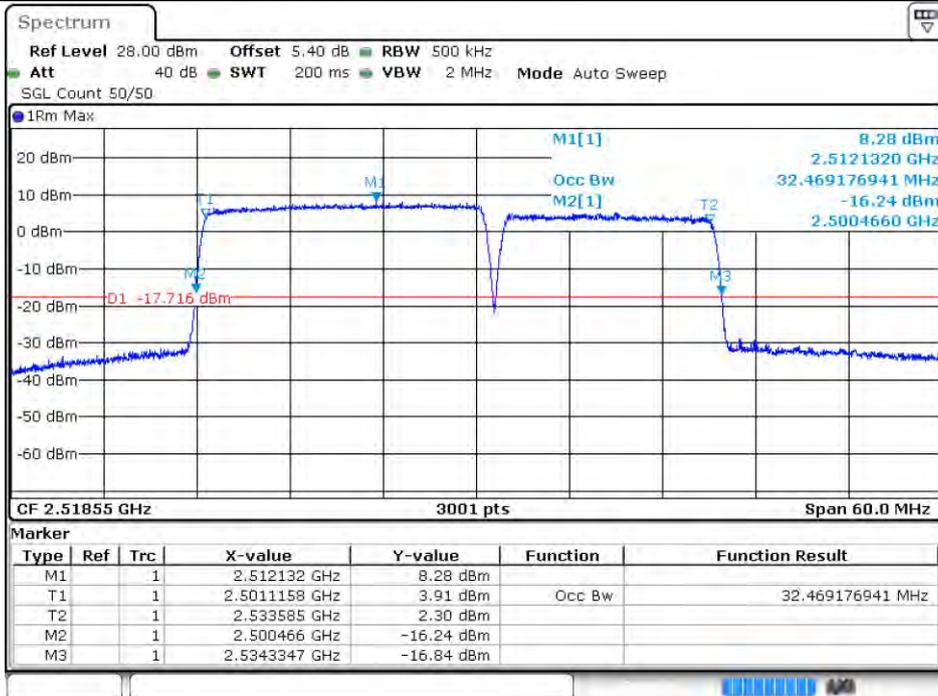
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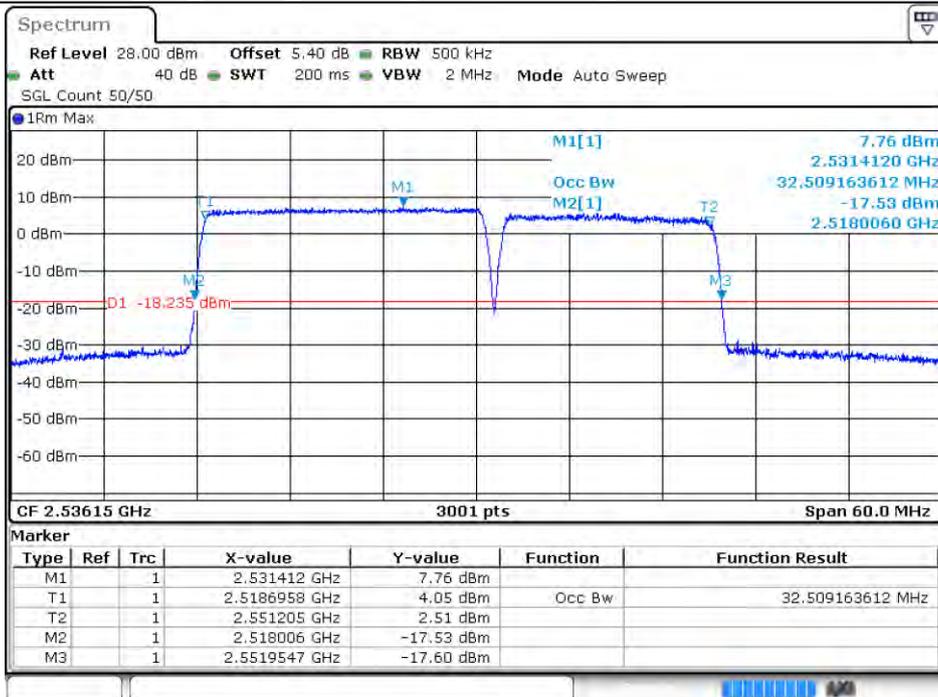


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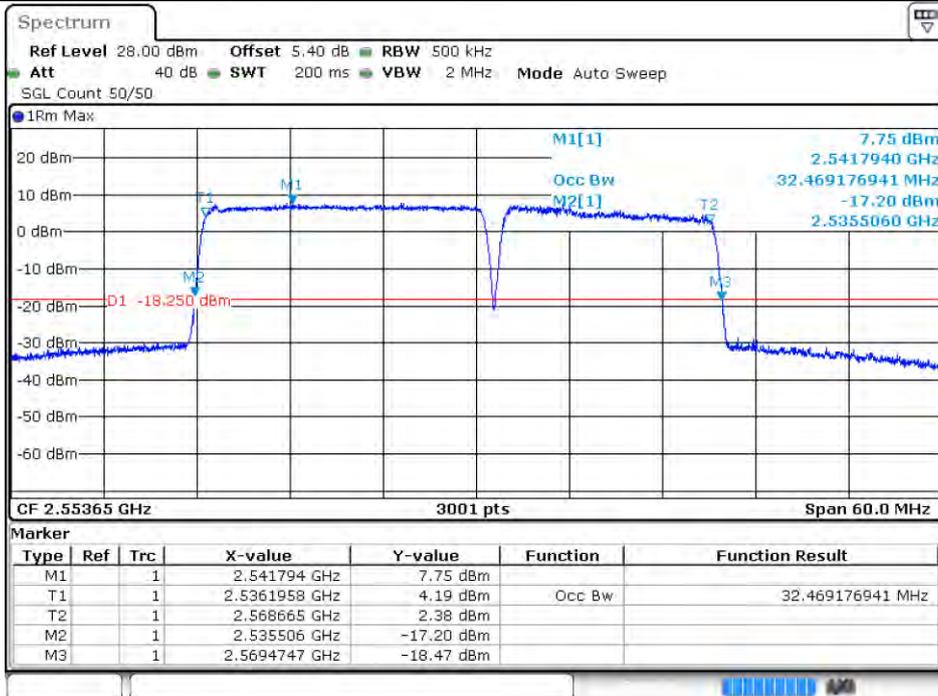
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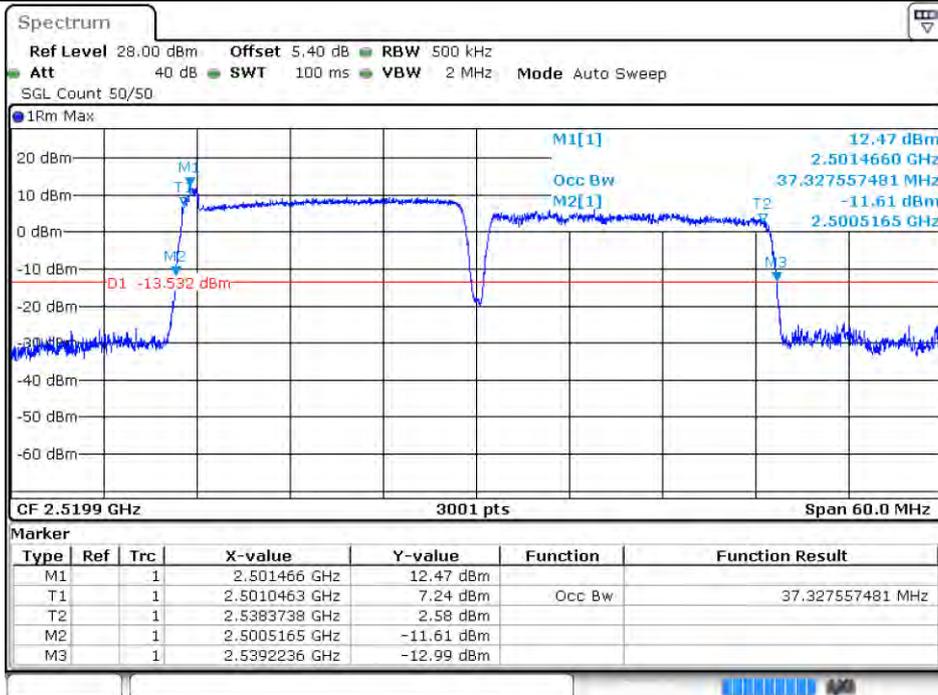


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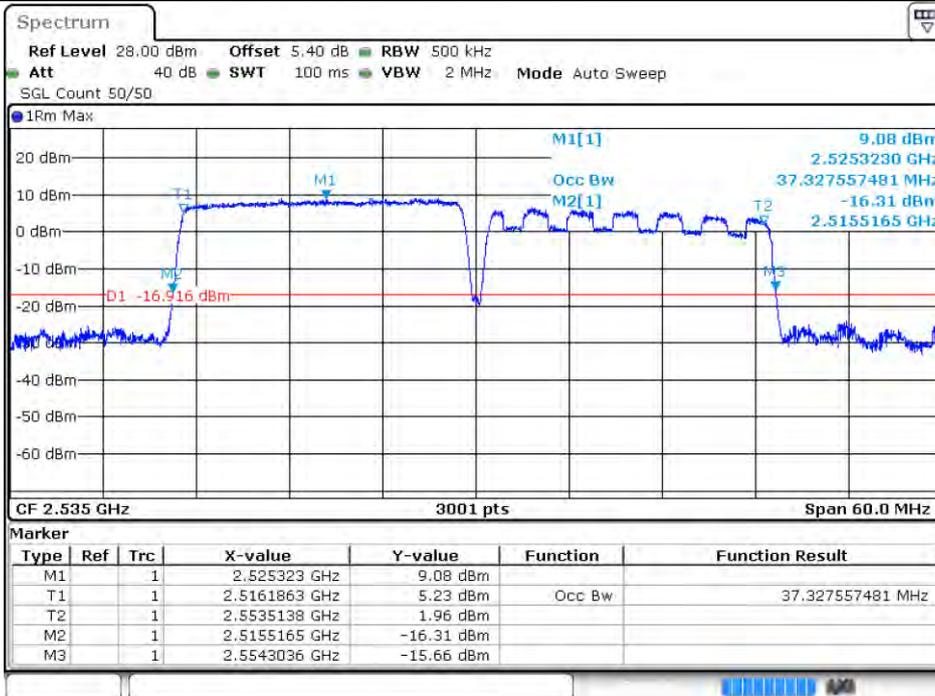
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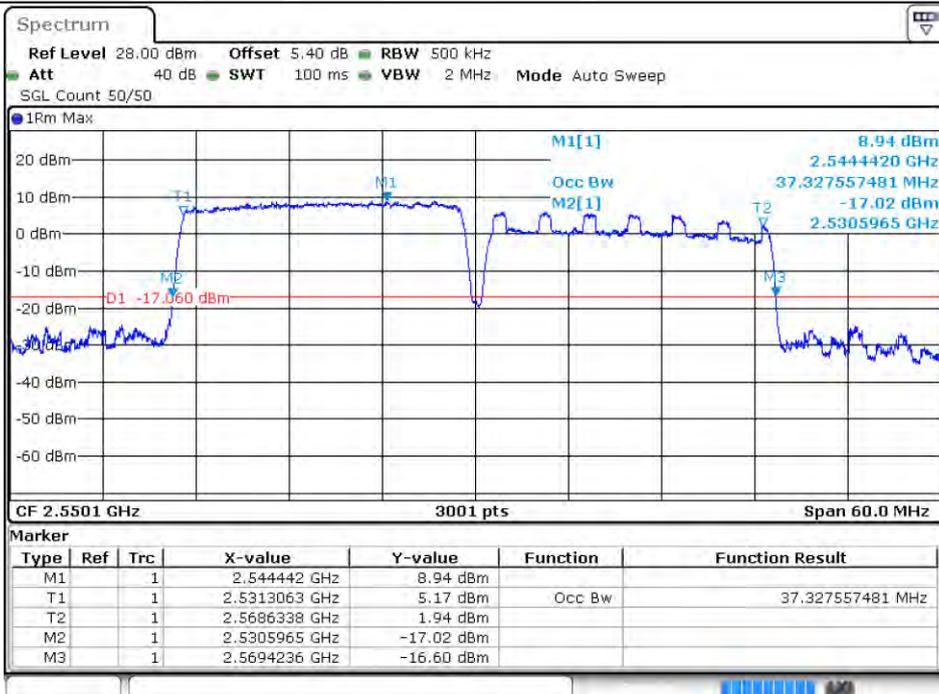


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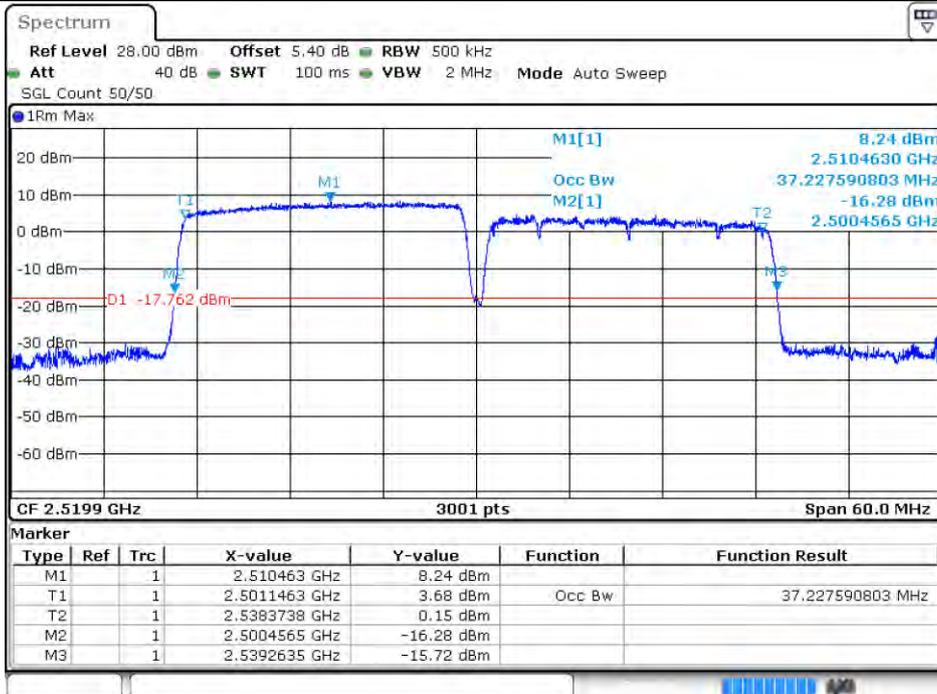
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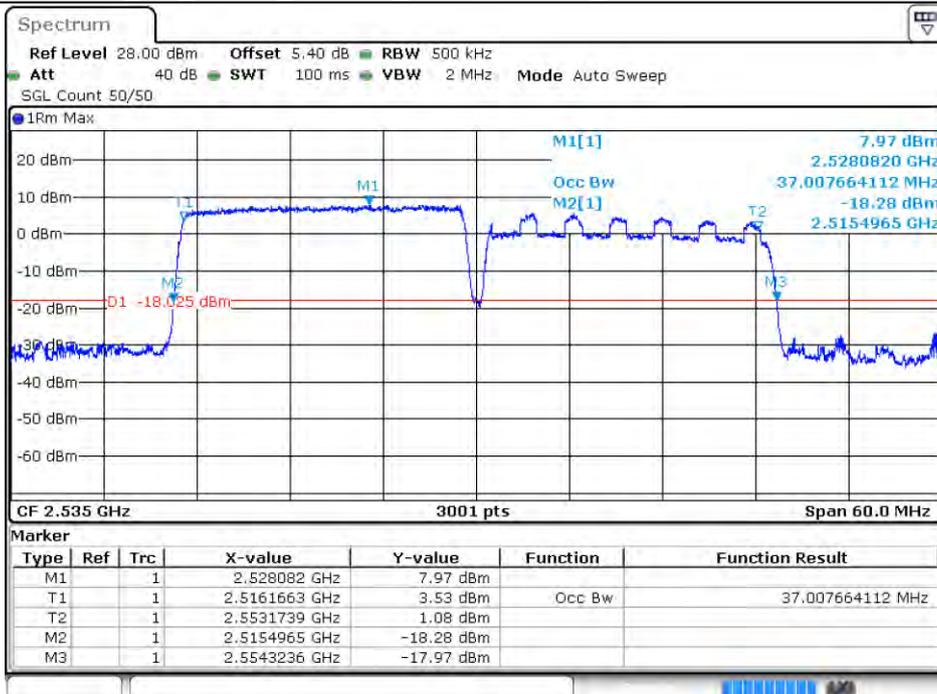


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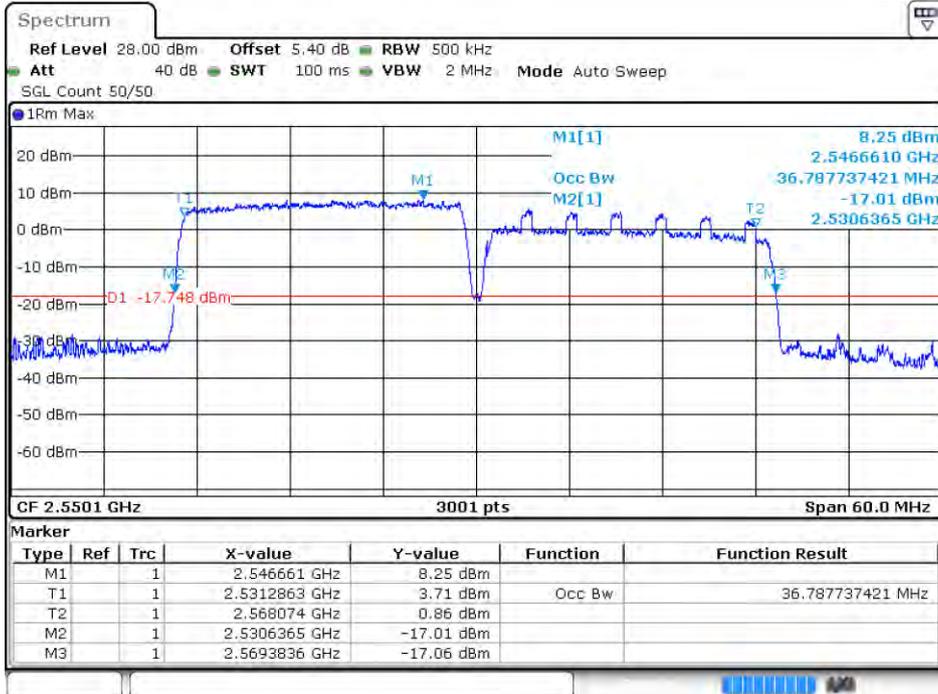
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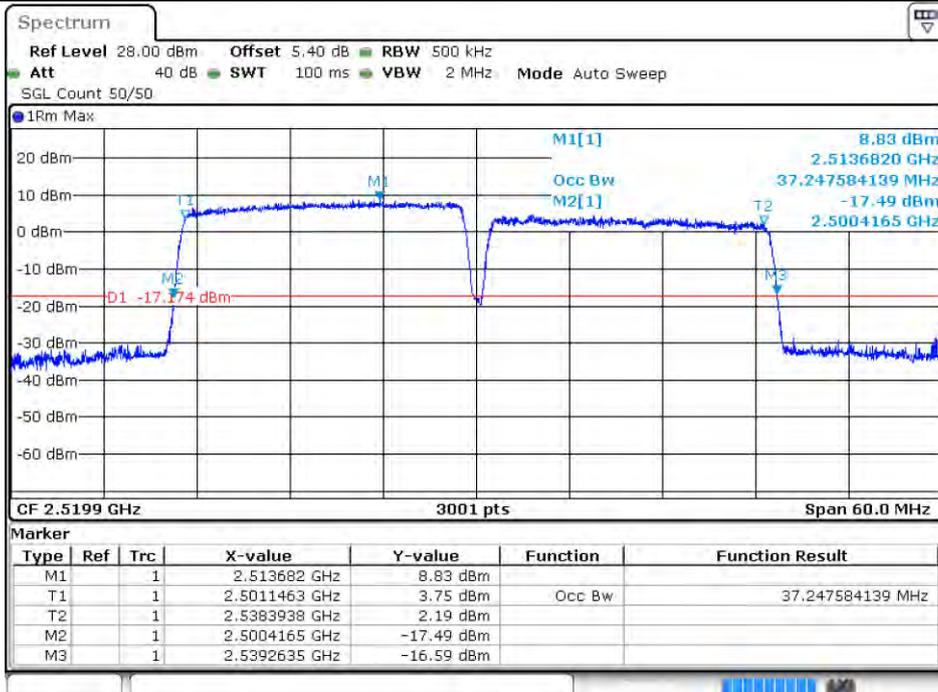


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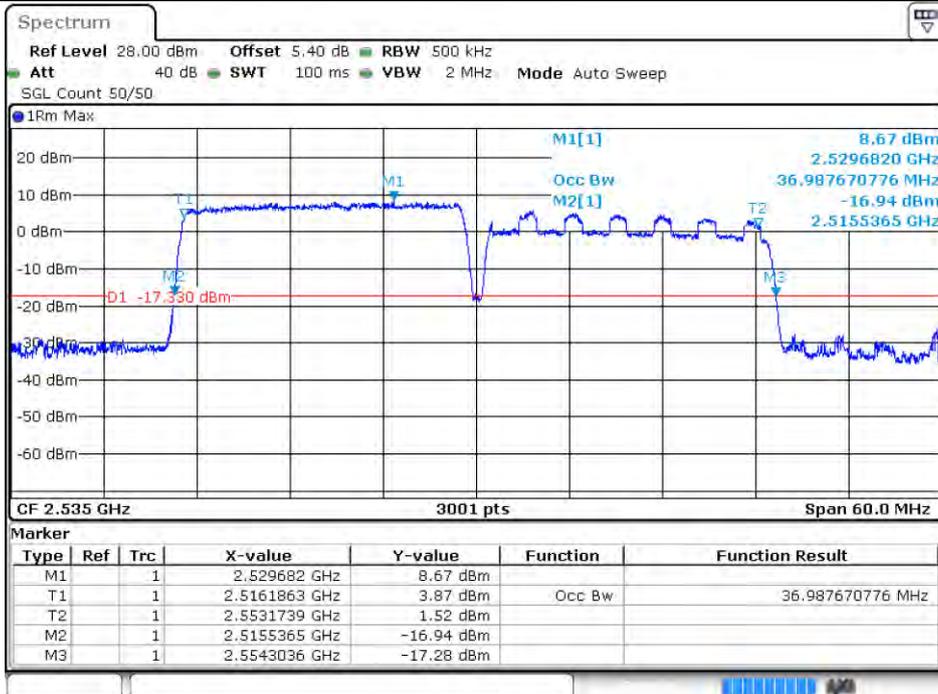
Date: 14.OCT.2020 21:49:50



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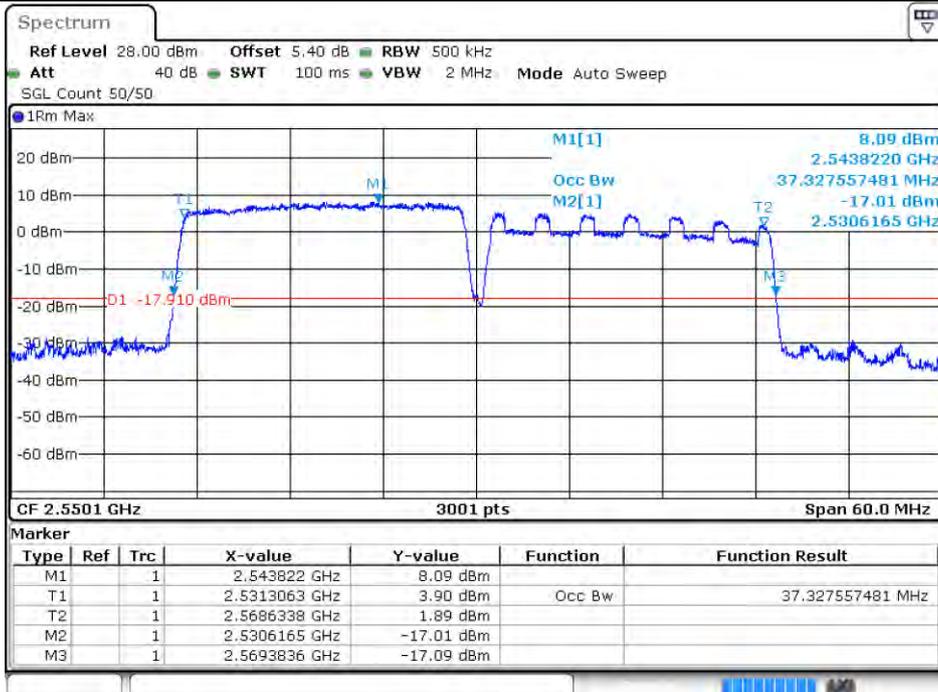
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CA\_7C\_20+20\_64QAM\_21001+21199\_100RB#0+100RB#0



Date: 14.OCT.2020 21:50:29

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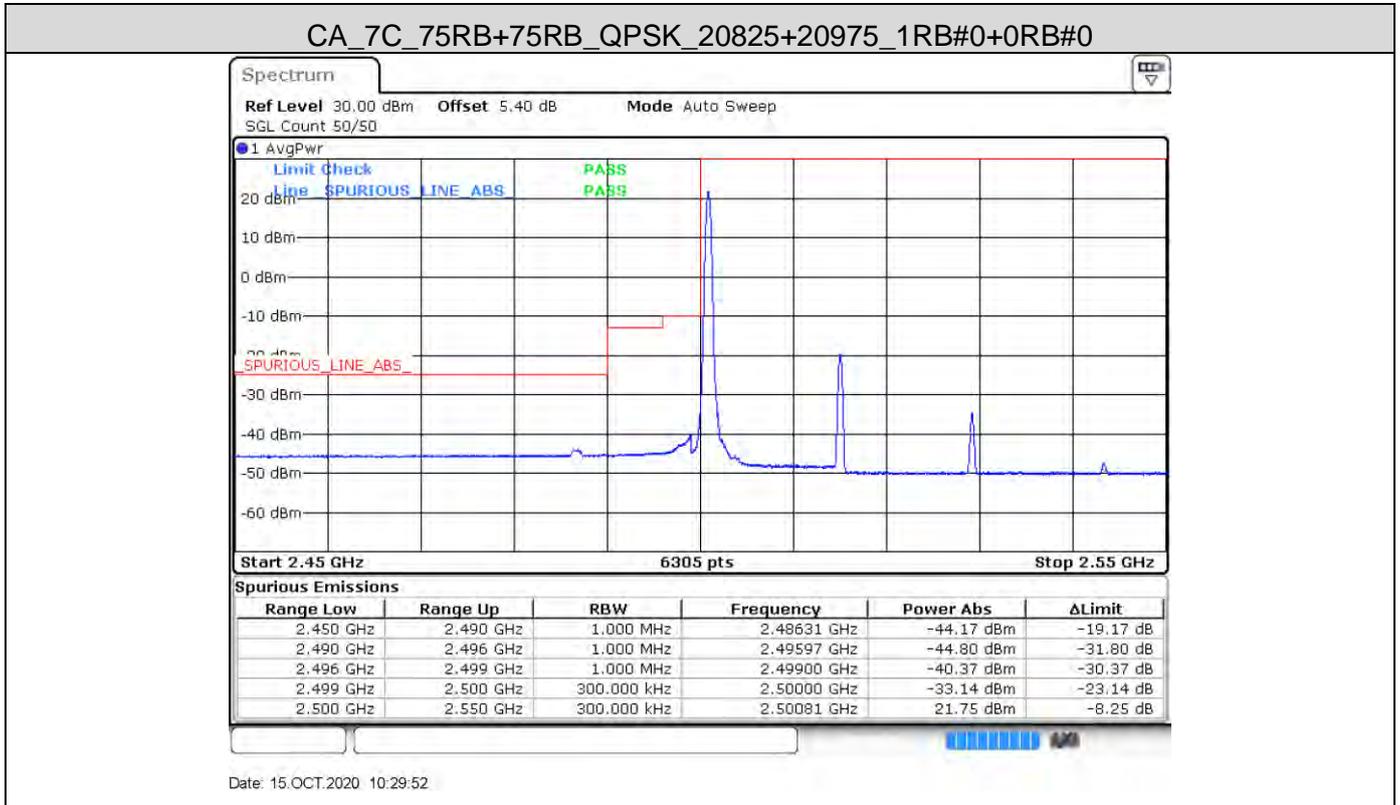
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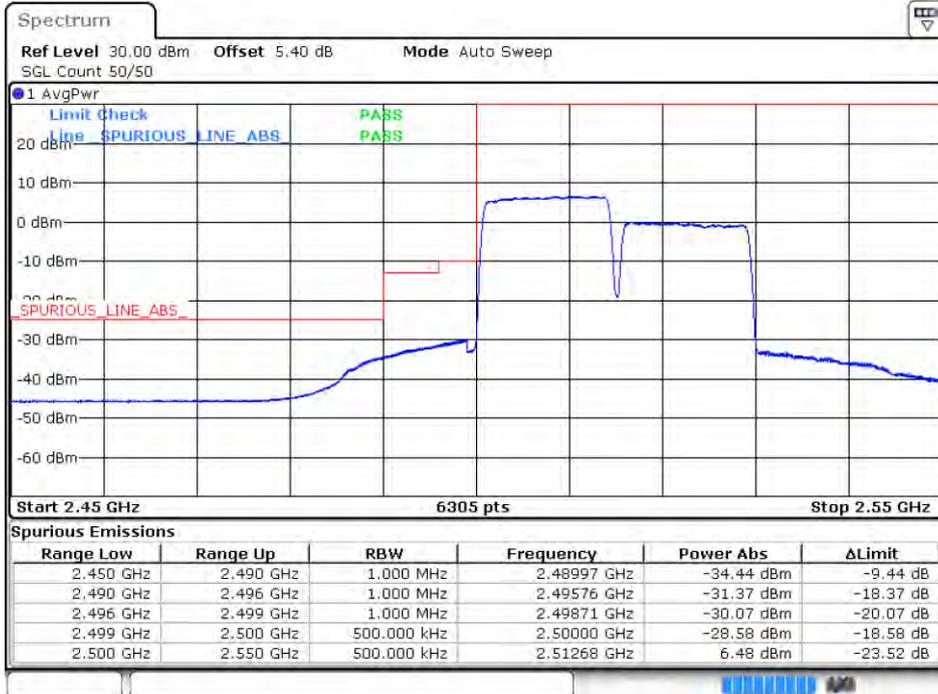
## 5 Band Edges Compliance

### 5.1 For LTE

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

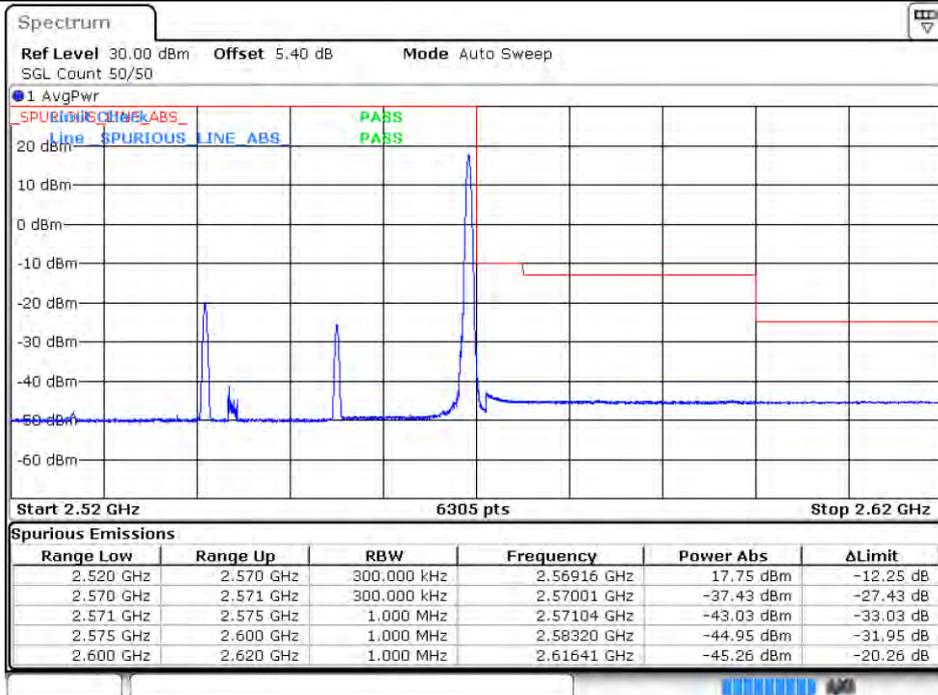


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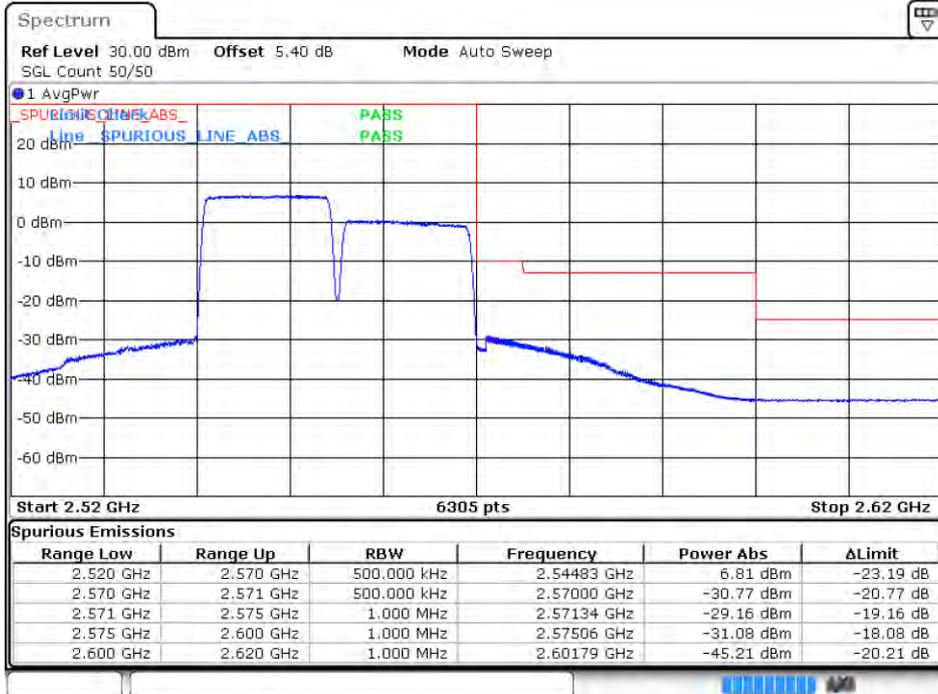
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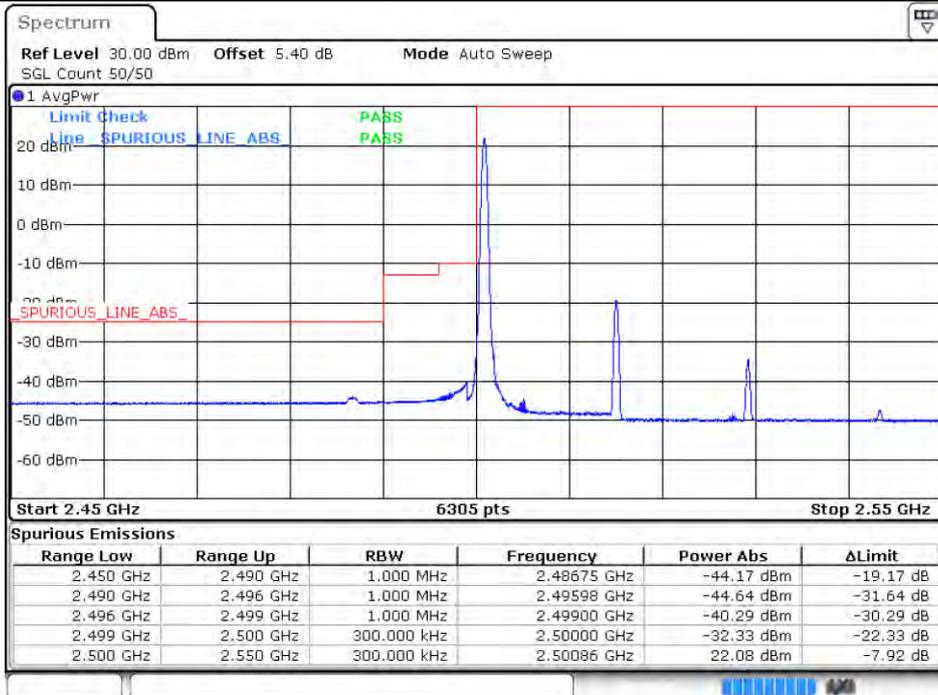


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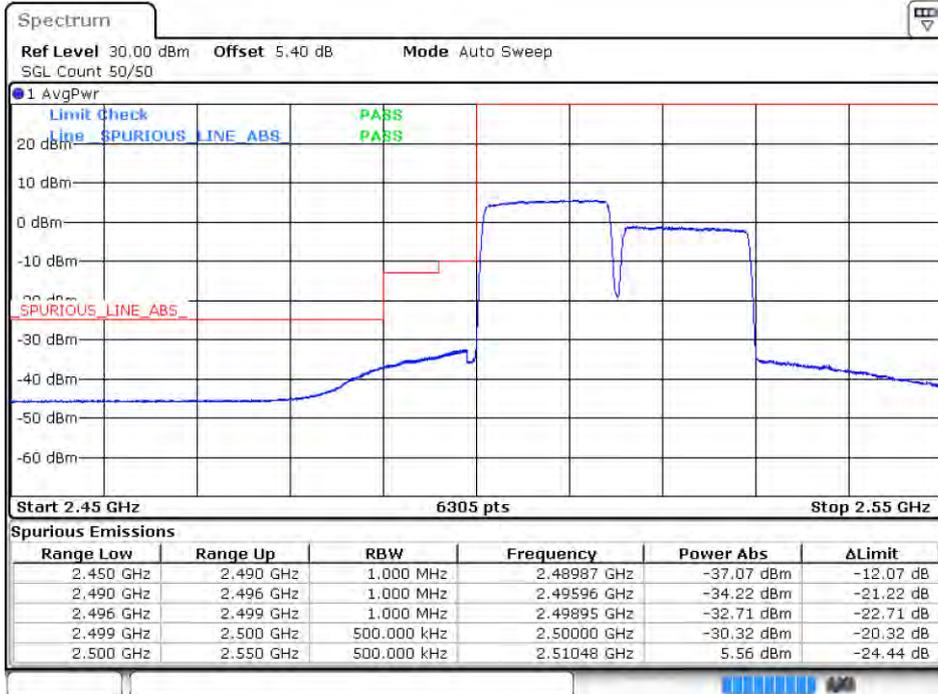
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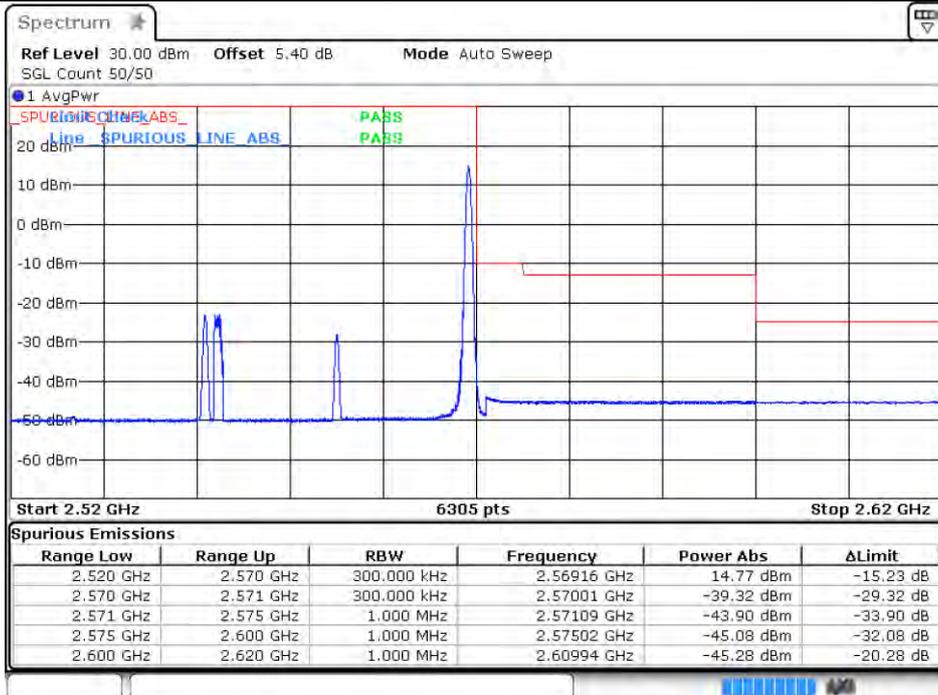


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Date: 15.OCT.2020 10:35:44

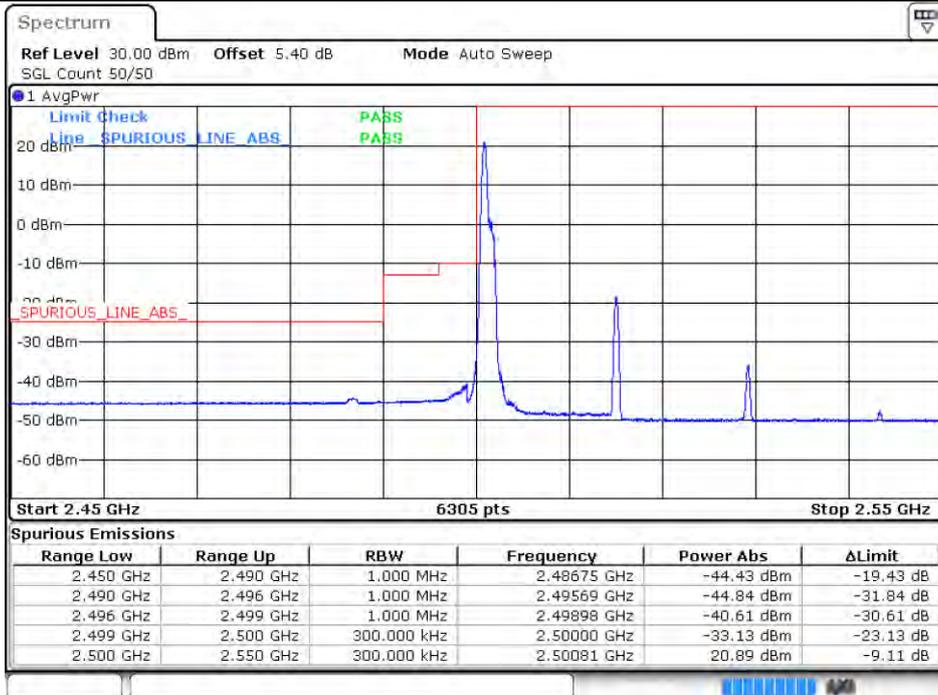


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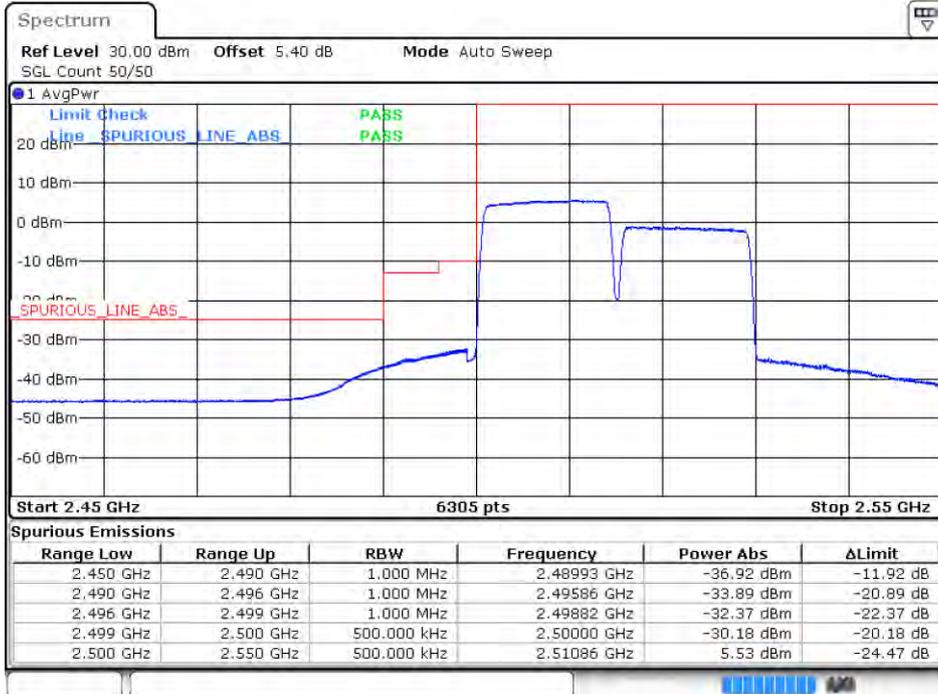
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Date: 15.OCT.2020 10:32:58

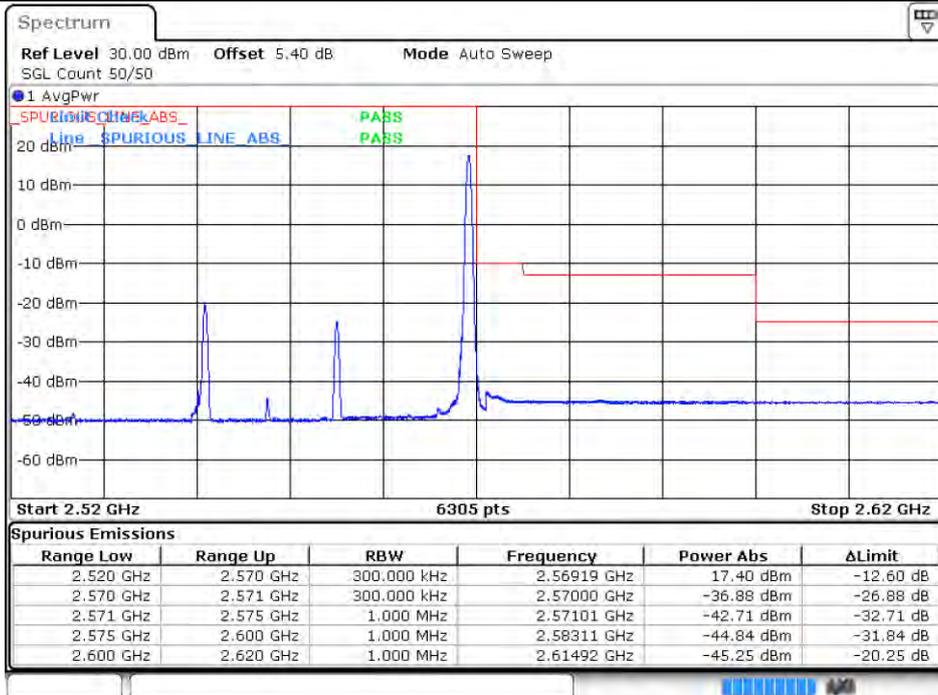


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Date: 15.OCT.2020 10:34:31

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Date: 15.OCT.2020 11:05:45



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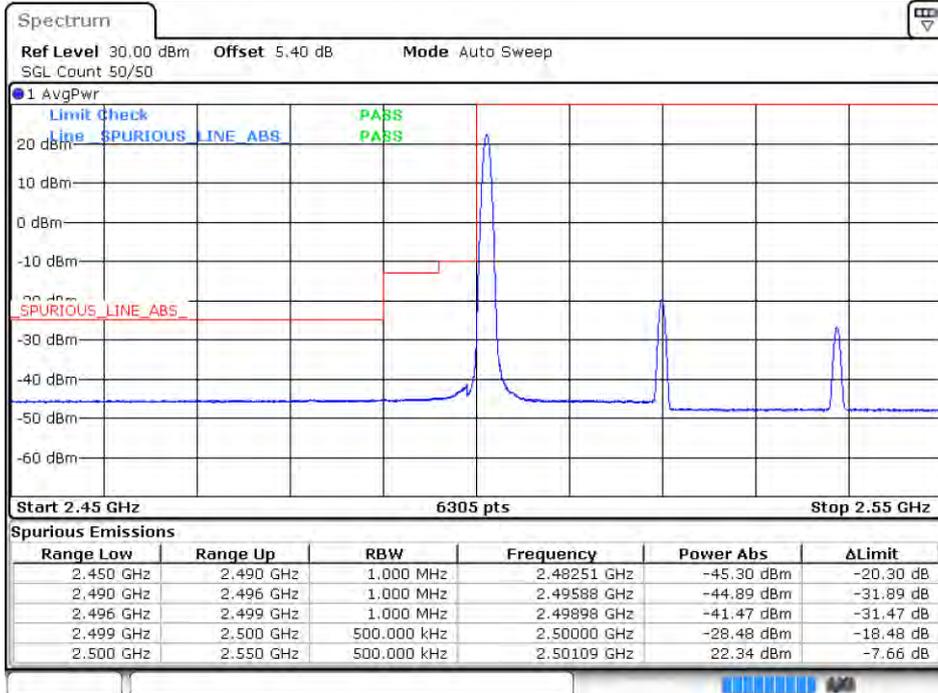
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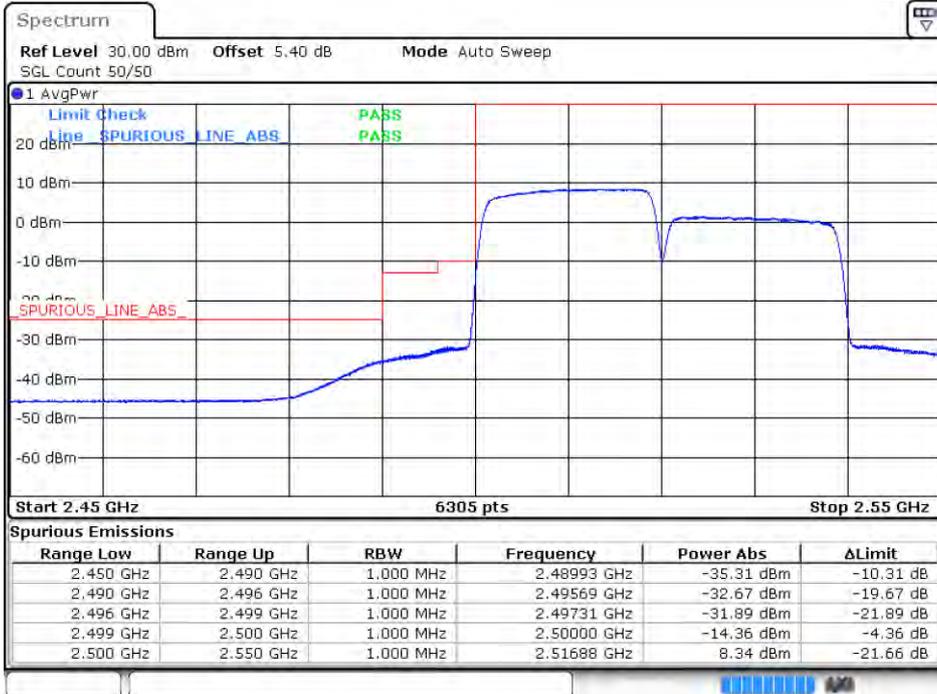
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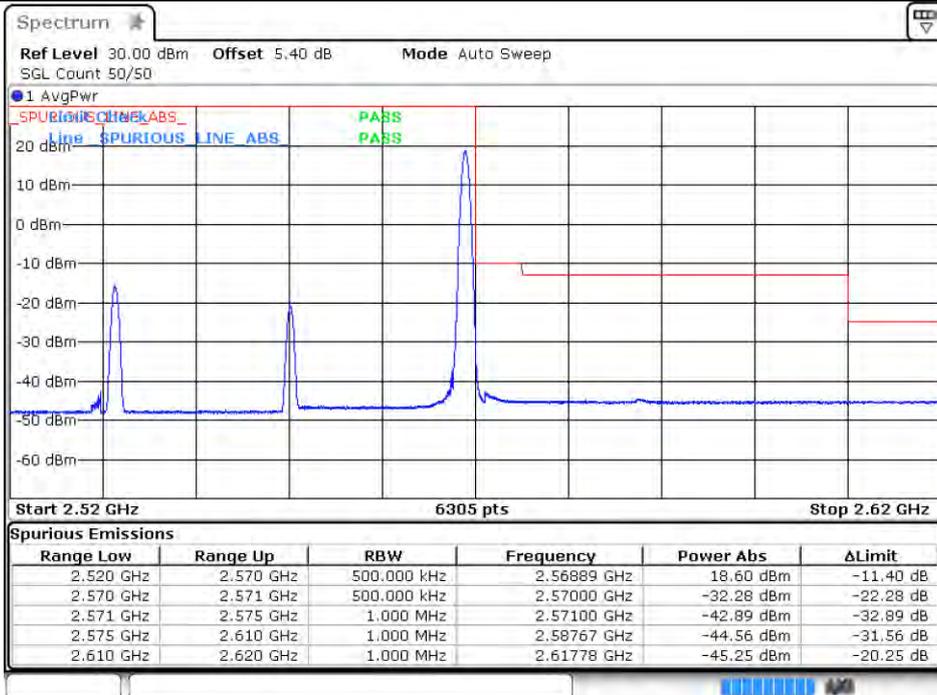


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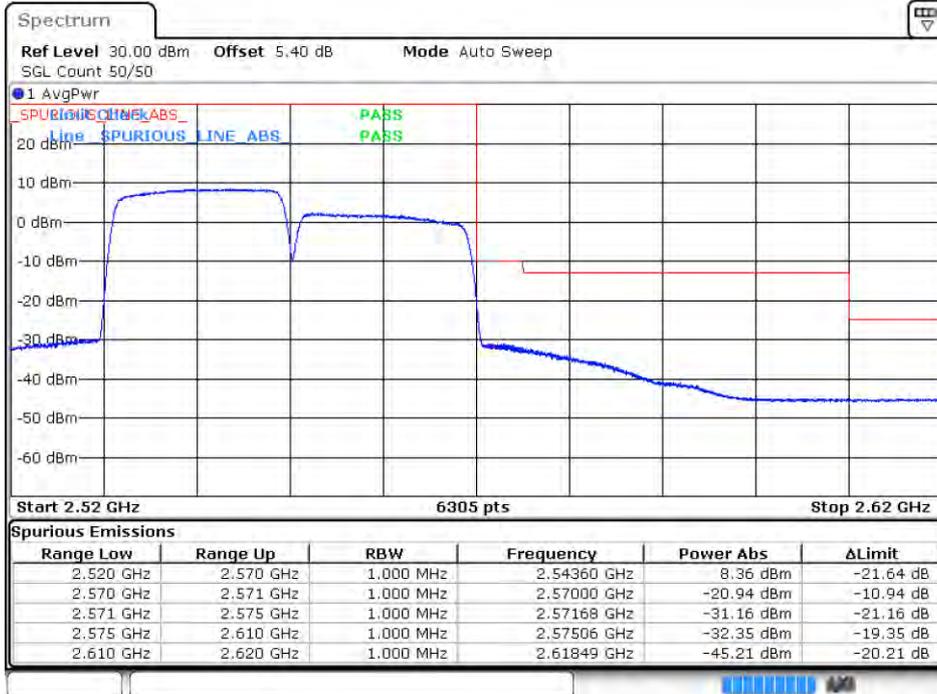
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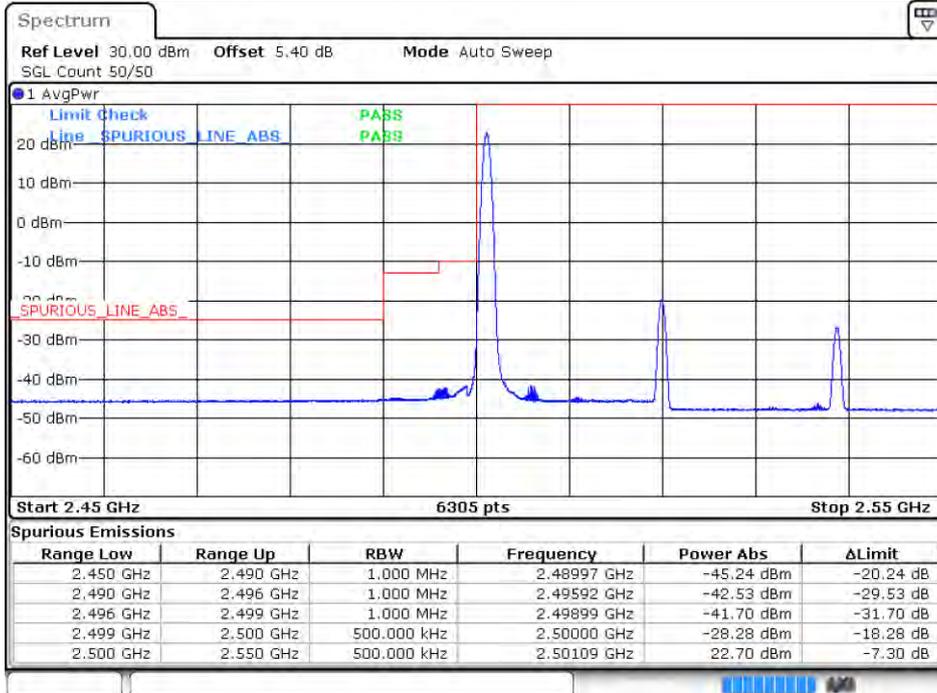


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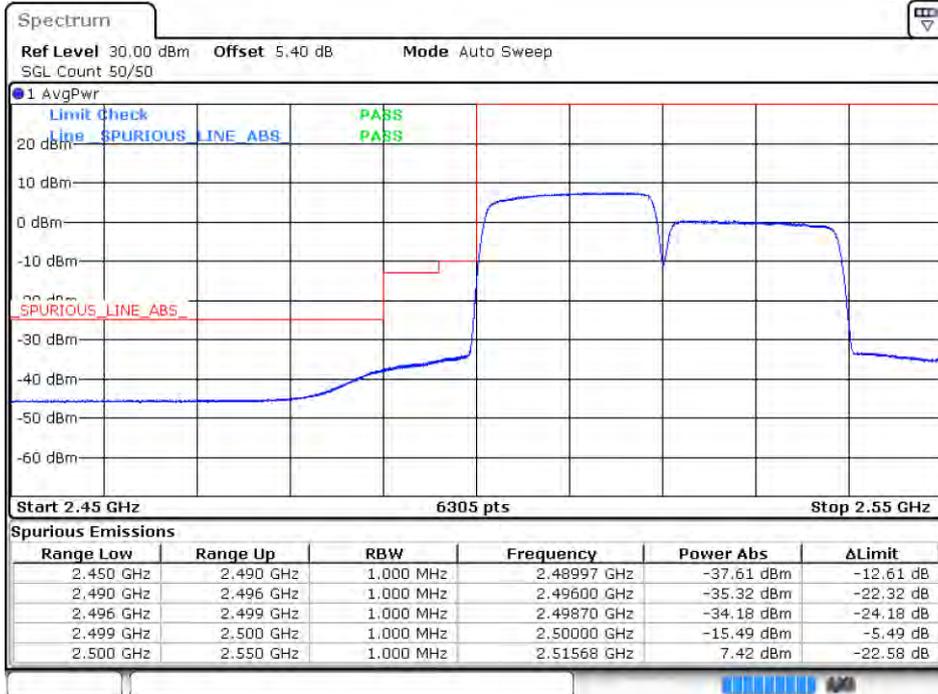
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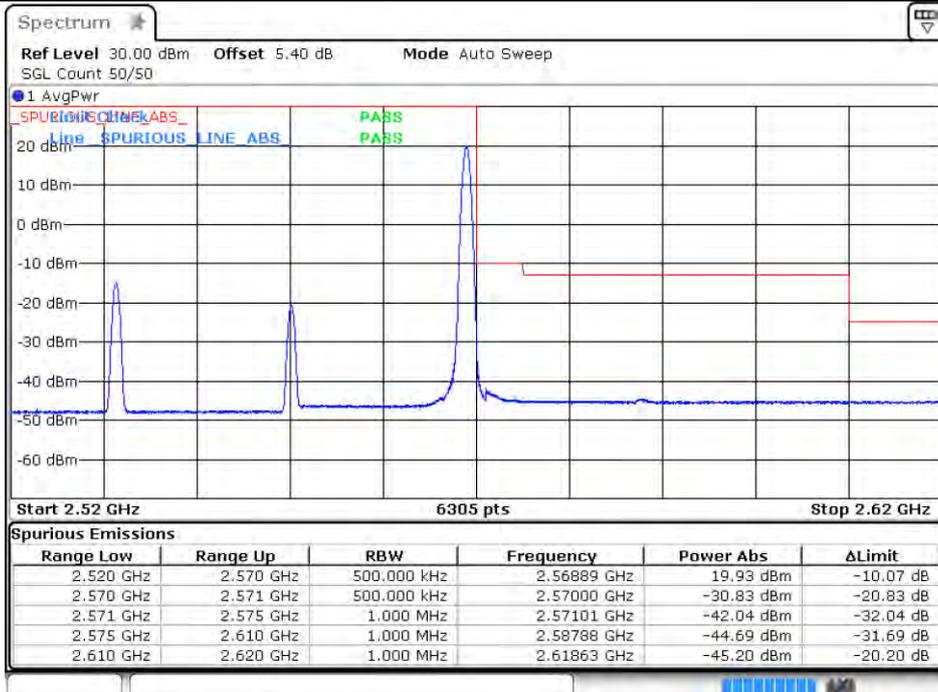


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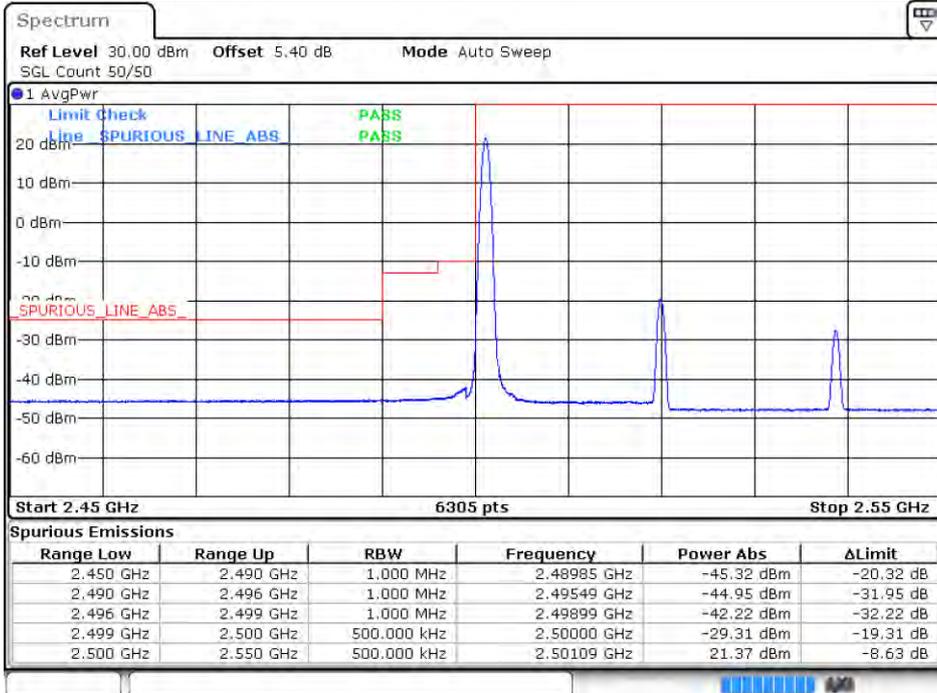


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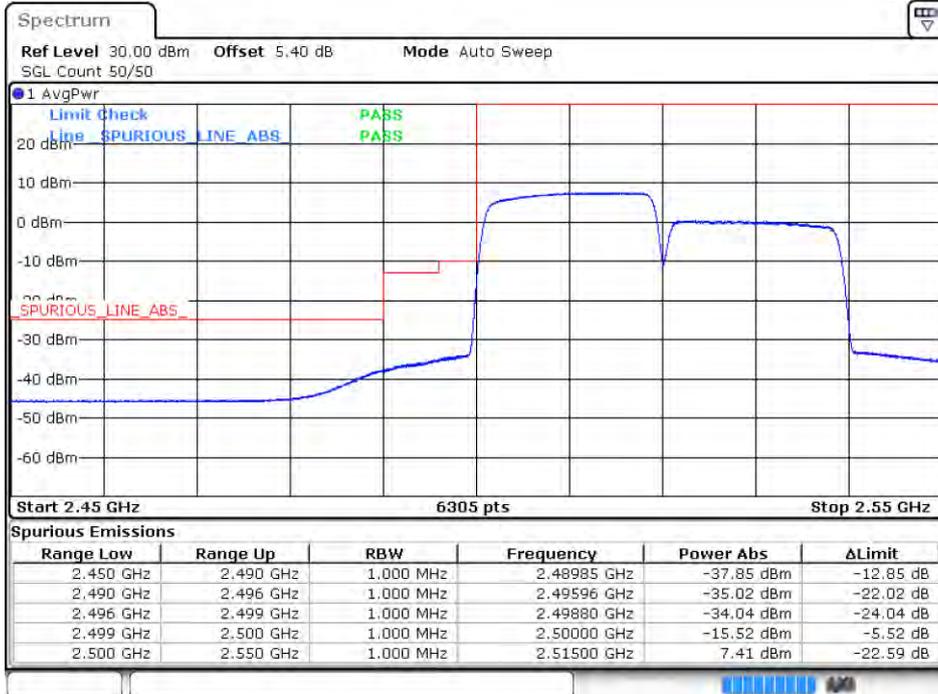
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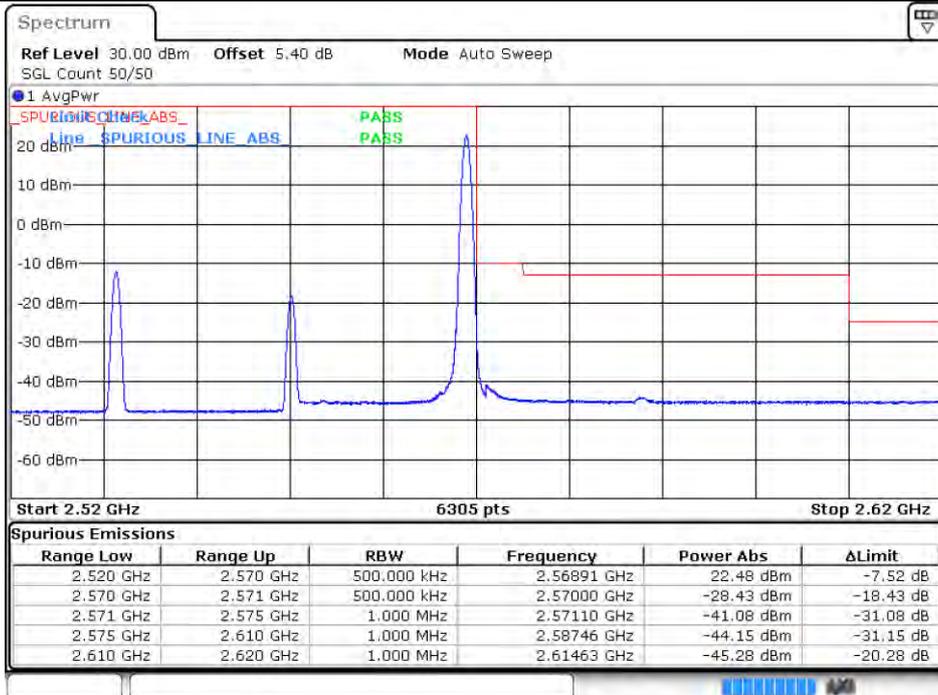


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Date: 15.OCT.2020 10:40:03

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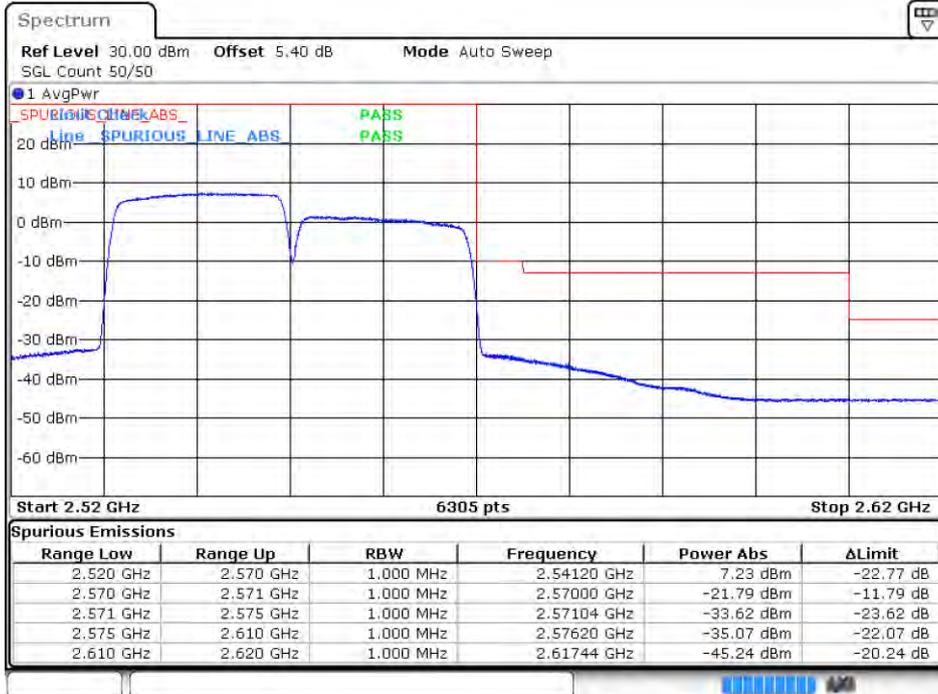


Date: 21.OCT.2020 19:18:47





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



Date: 21.OCT.2020 19:19:41



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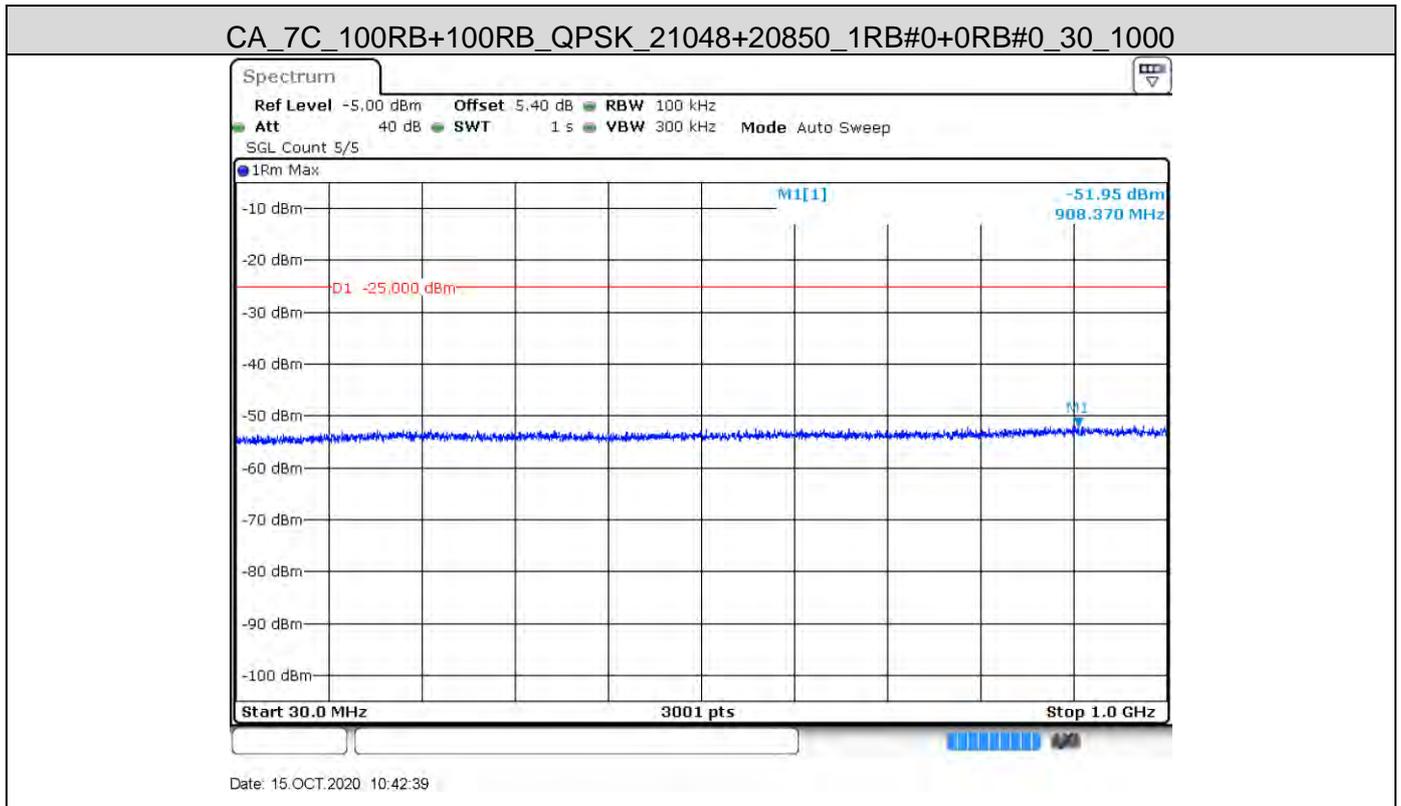
## 6 Spurious Emission at Antenna Terminal

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.

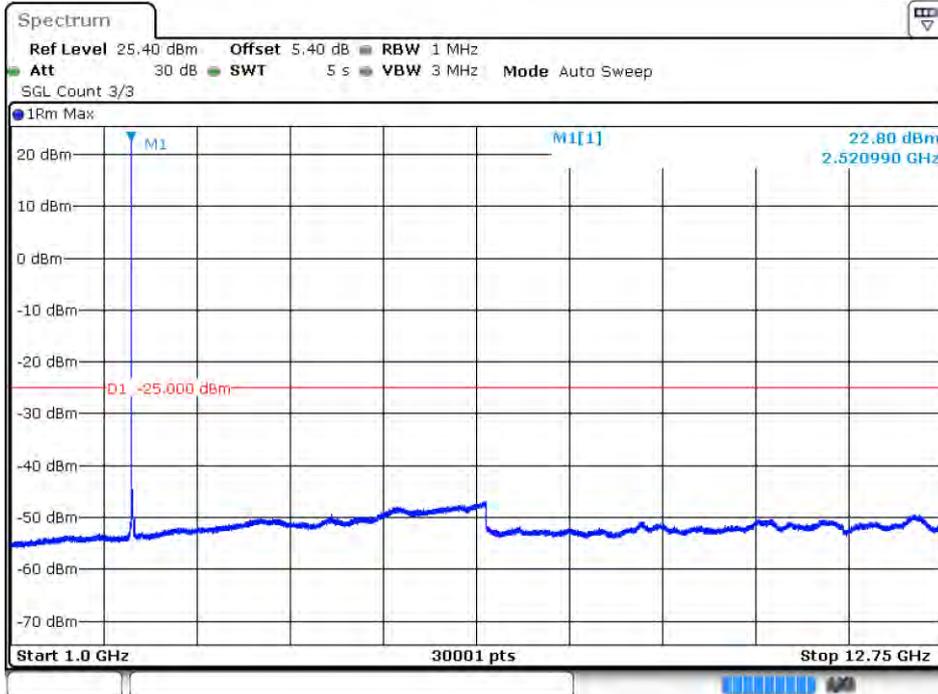
Part I - Test Plots

### 6.1 For LTE

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

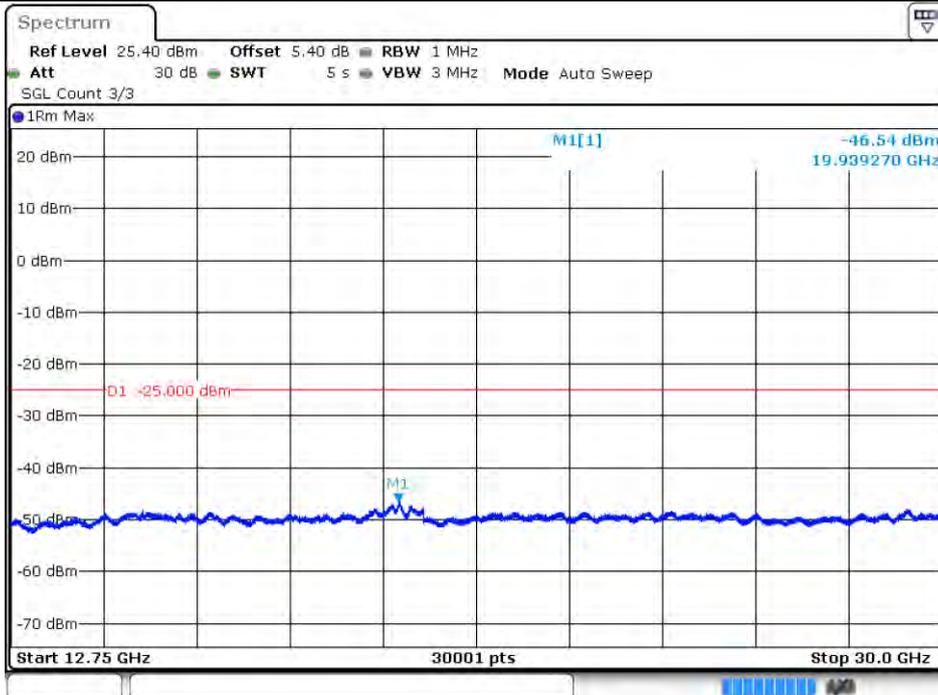


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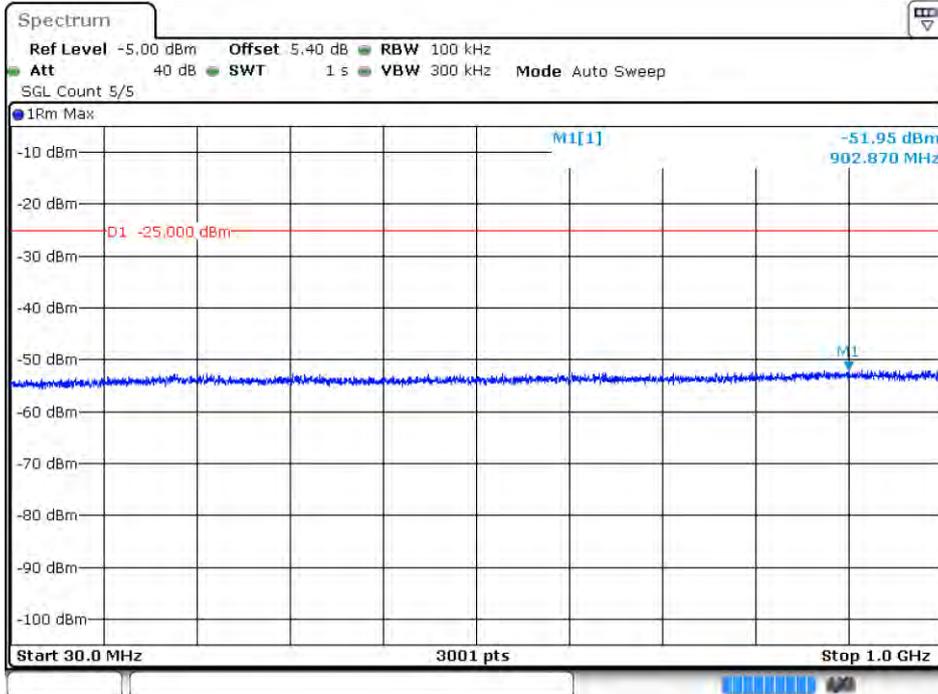
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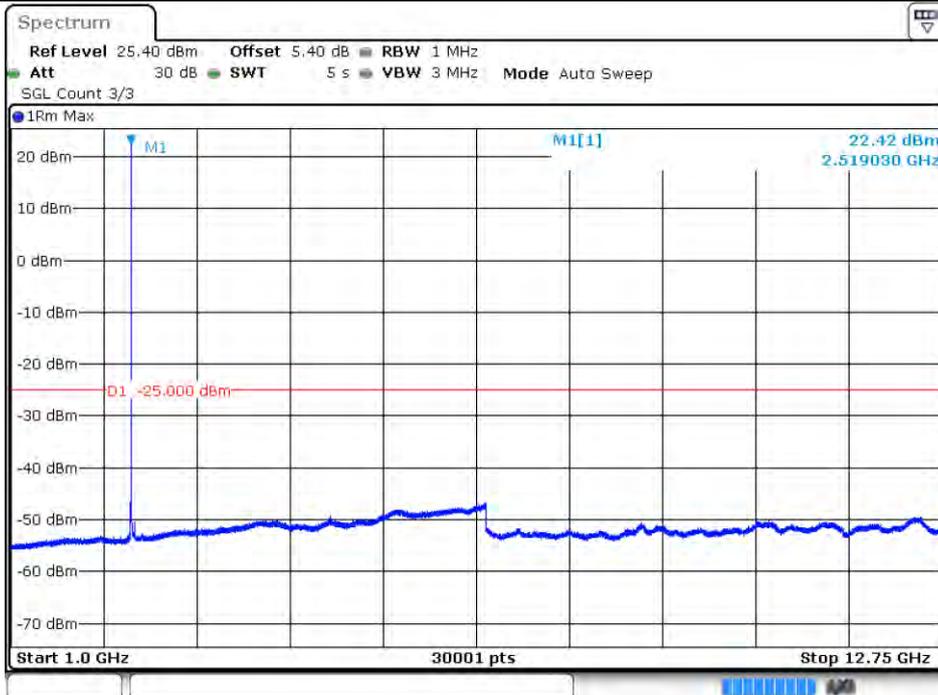


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Date: 15.OCT.2020 10:42:46

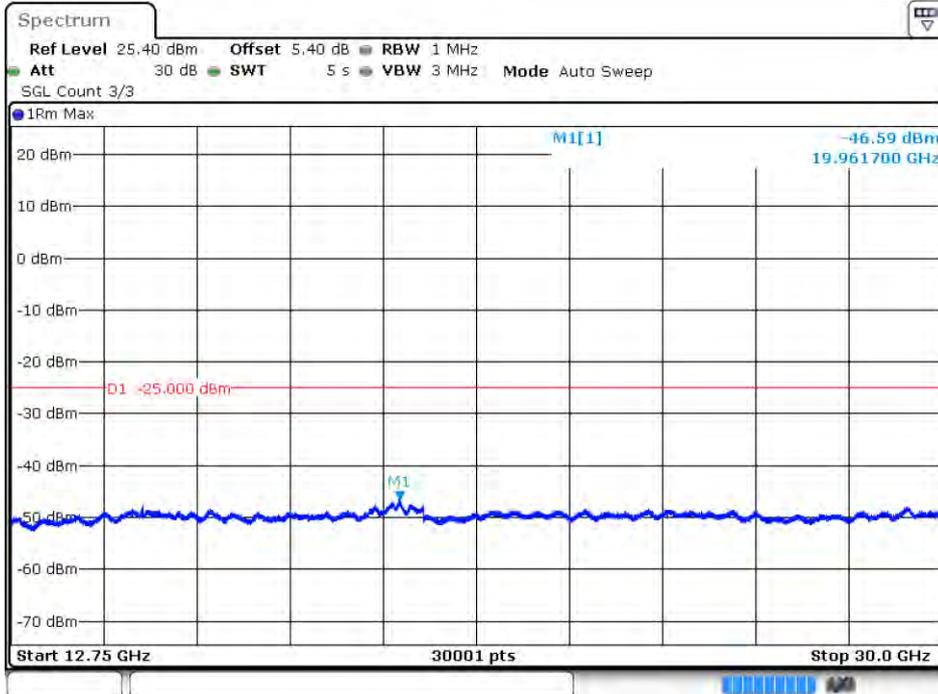
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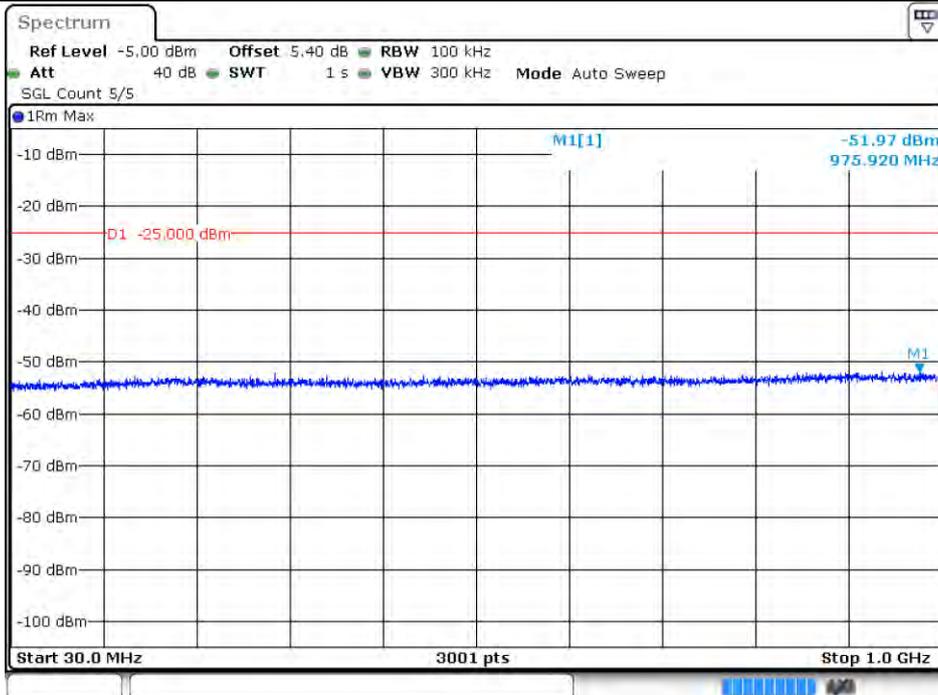


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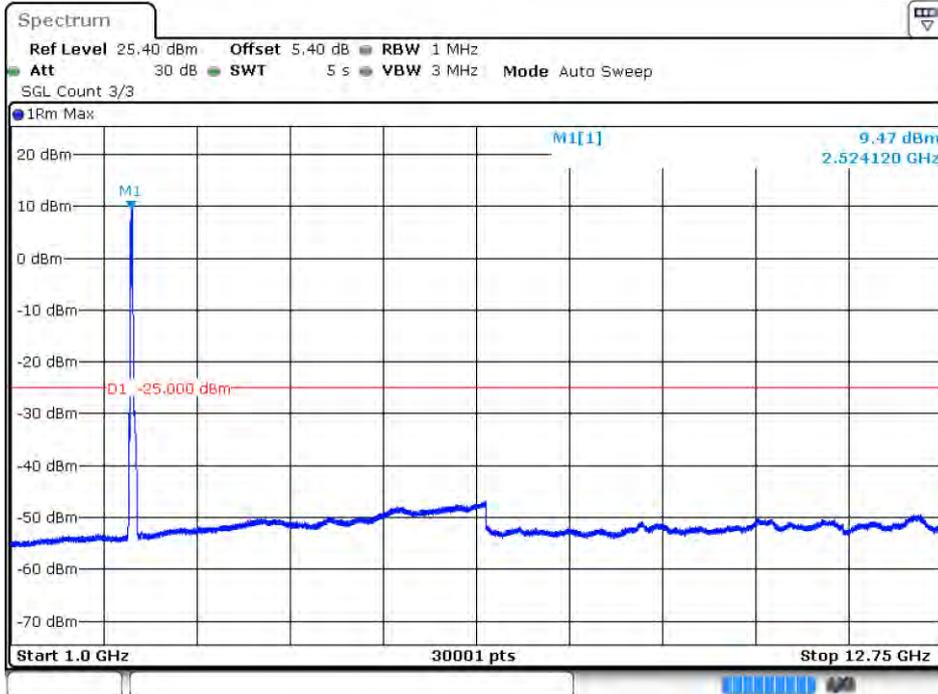
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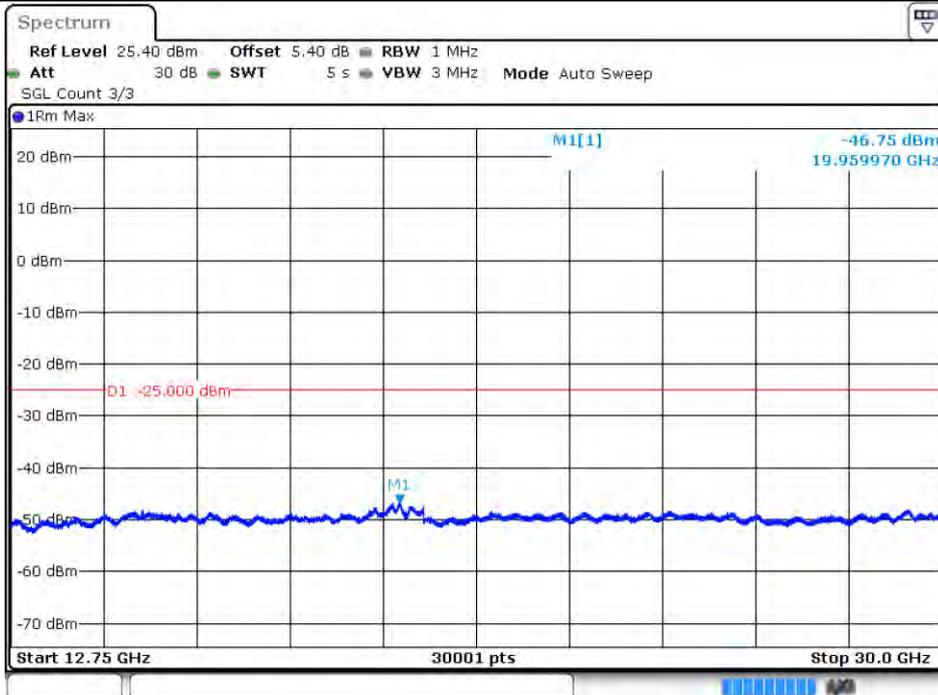


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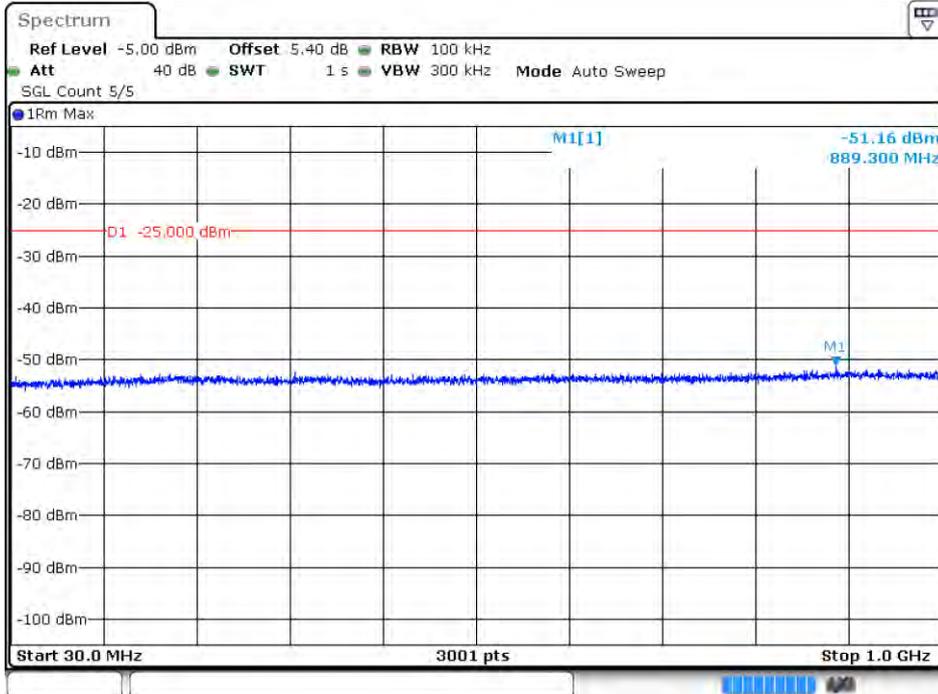
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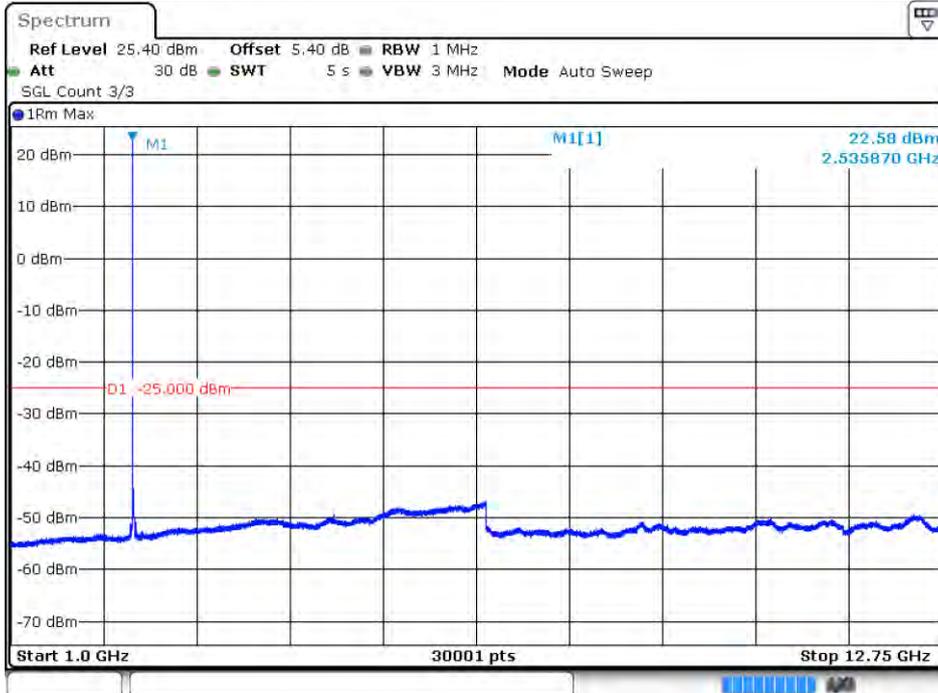


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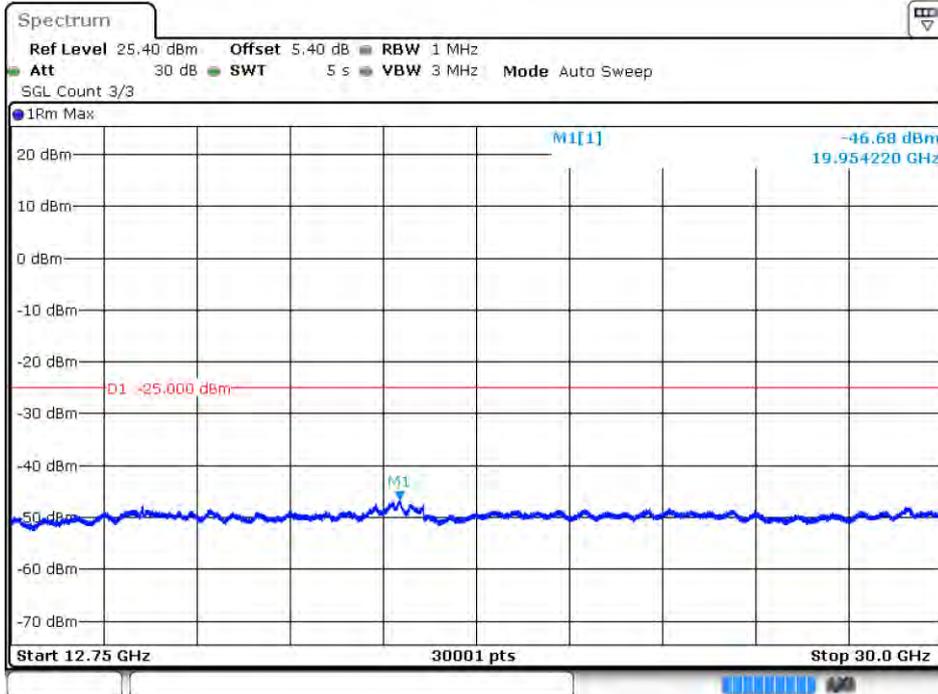


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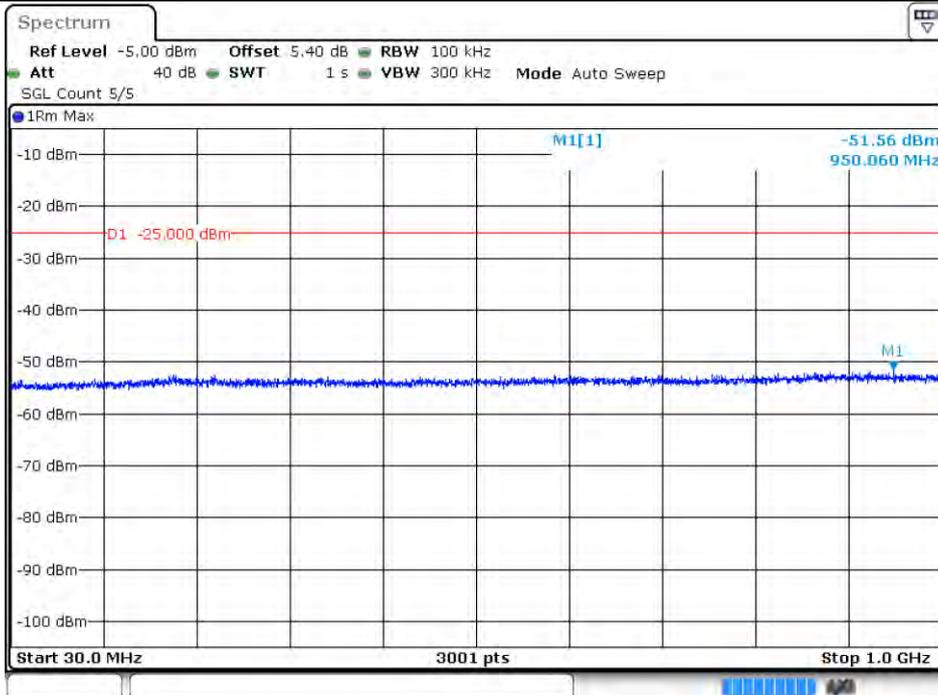


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Date: 15.OCT.2020 10:56:39

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Date: 15.OCT.2020 10:43:46

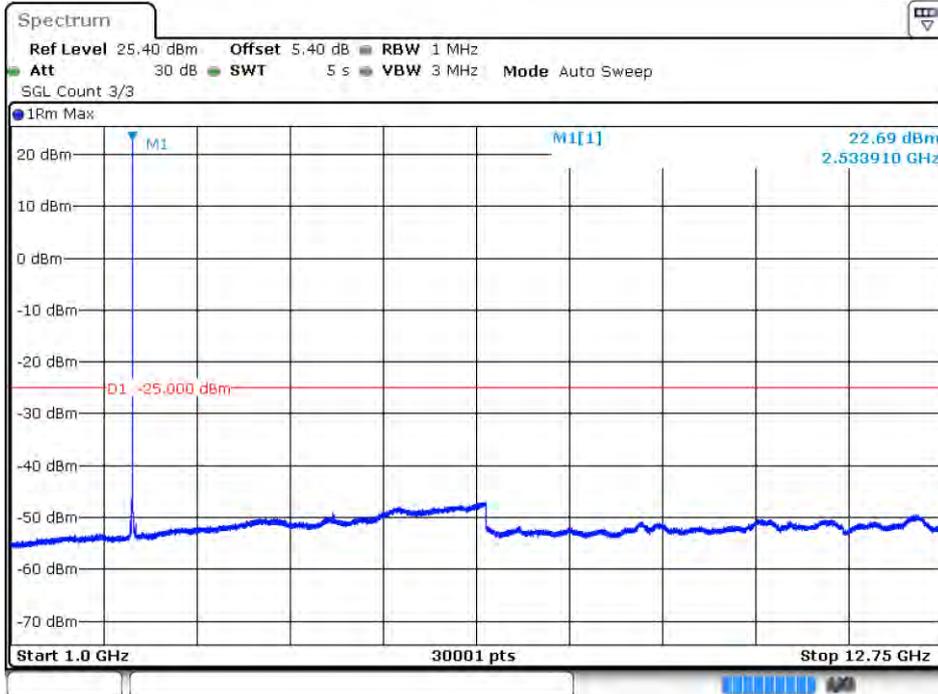


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 Shenzhen Branch Inspection & Testing Services Laboratory

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



Date: 15.OCT.2020 10:49:07

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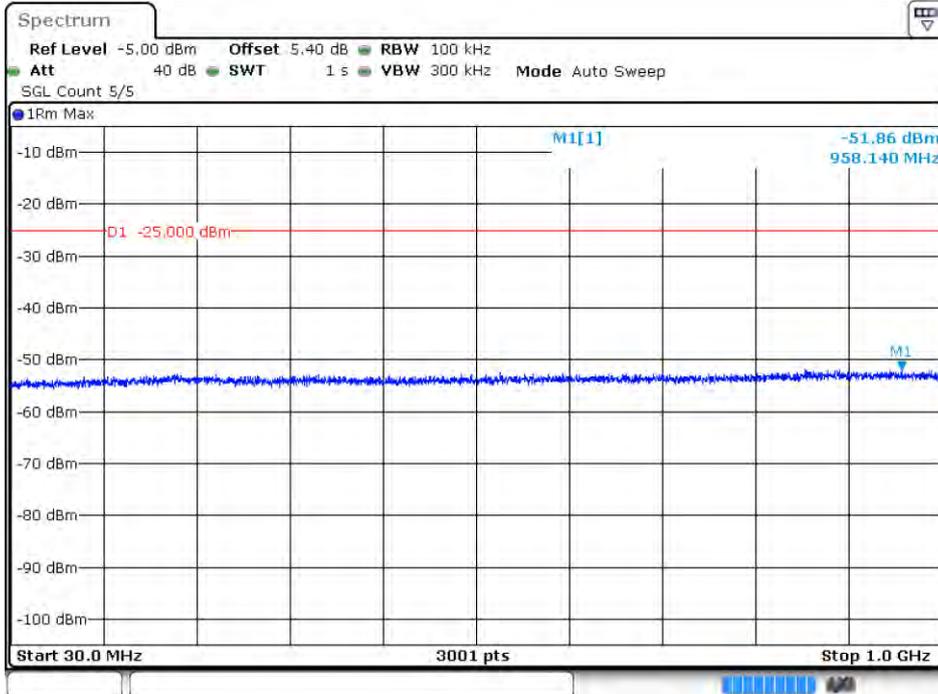


Date: 15.OCT.2020 10:56:56



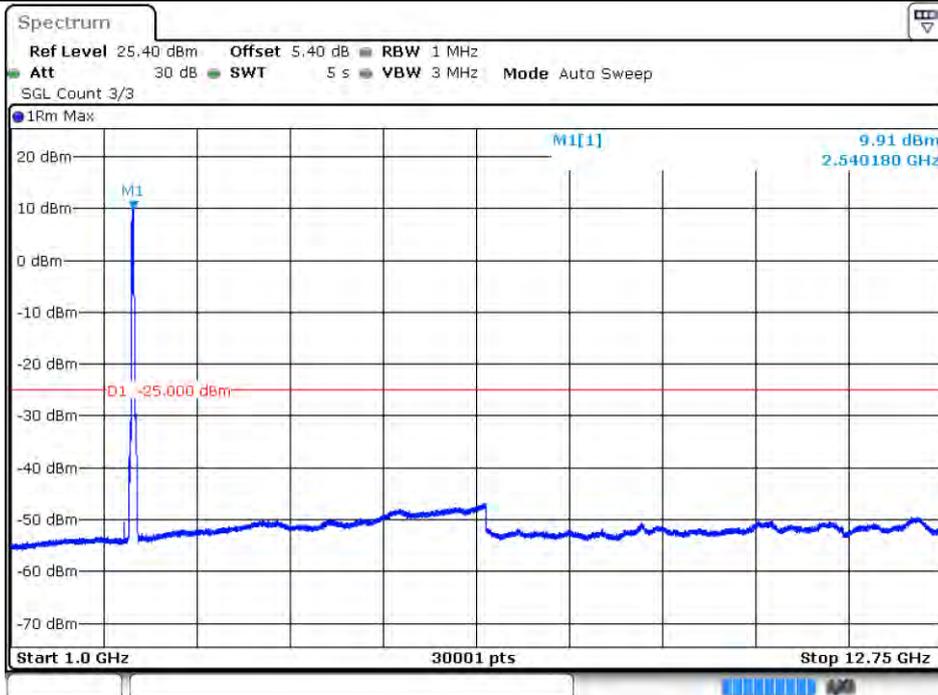
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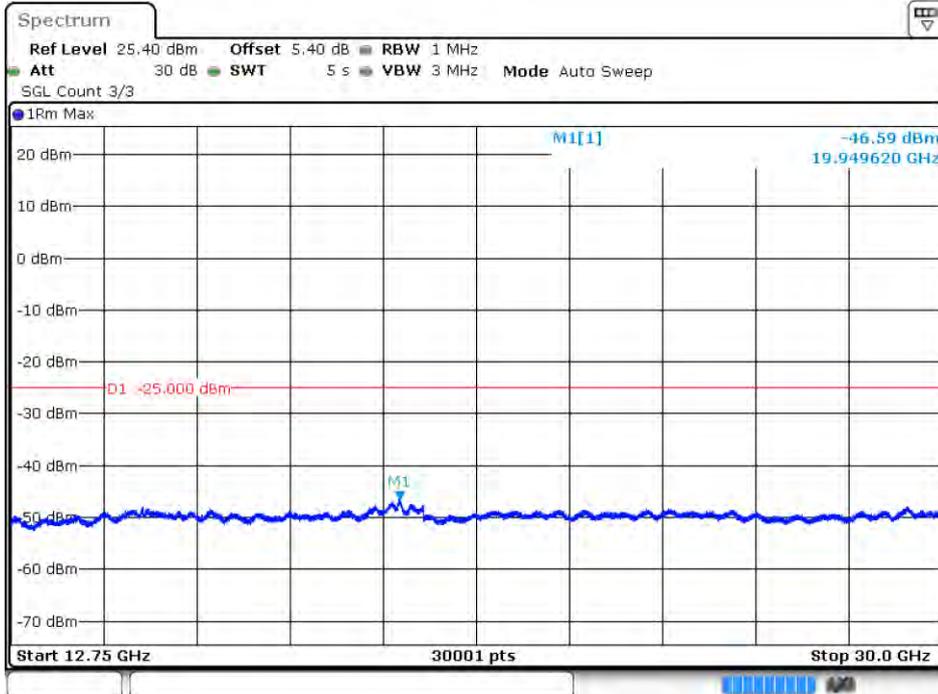
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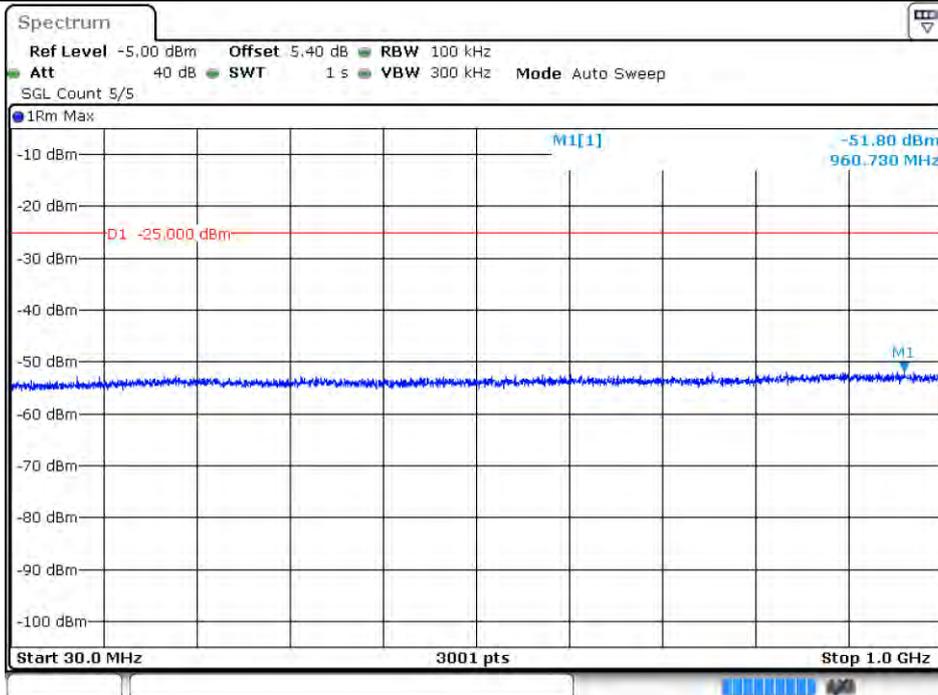


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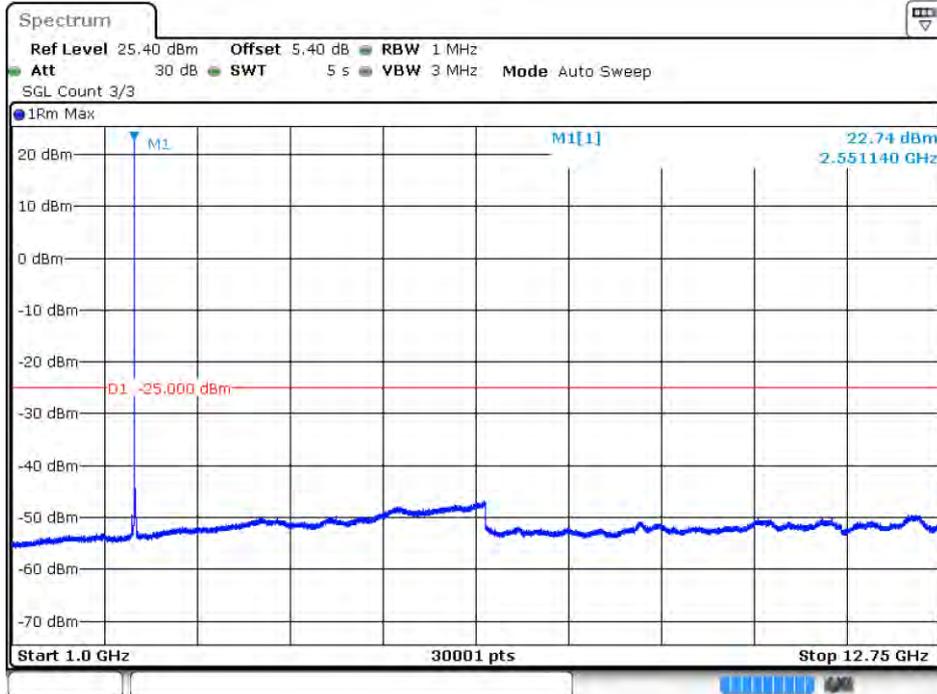
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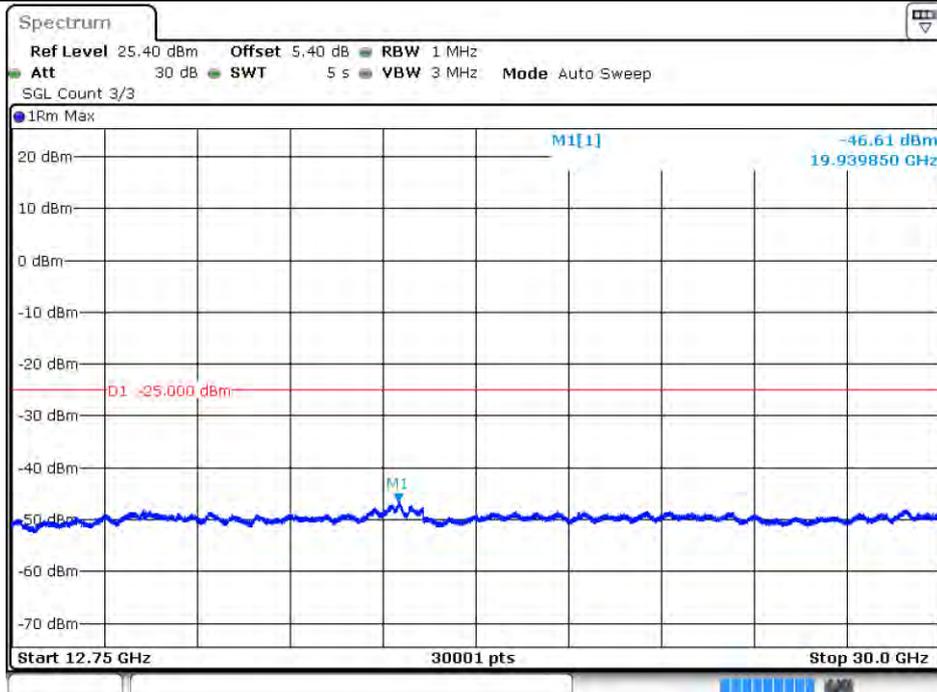


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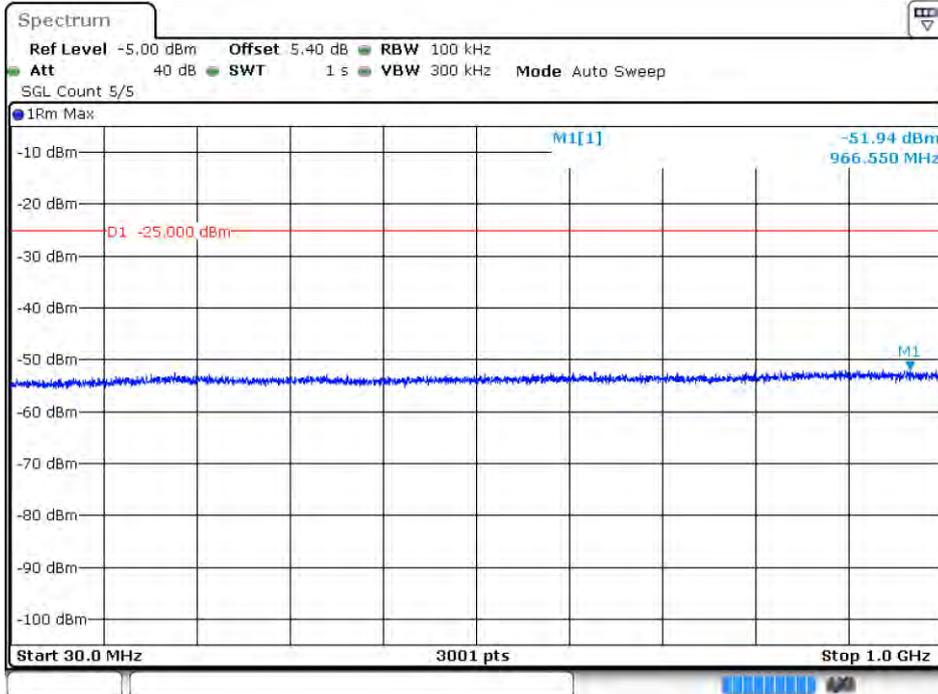
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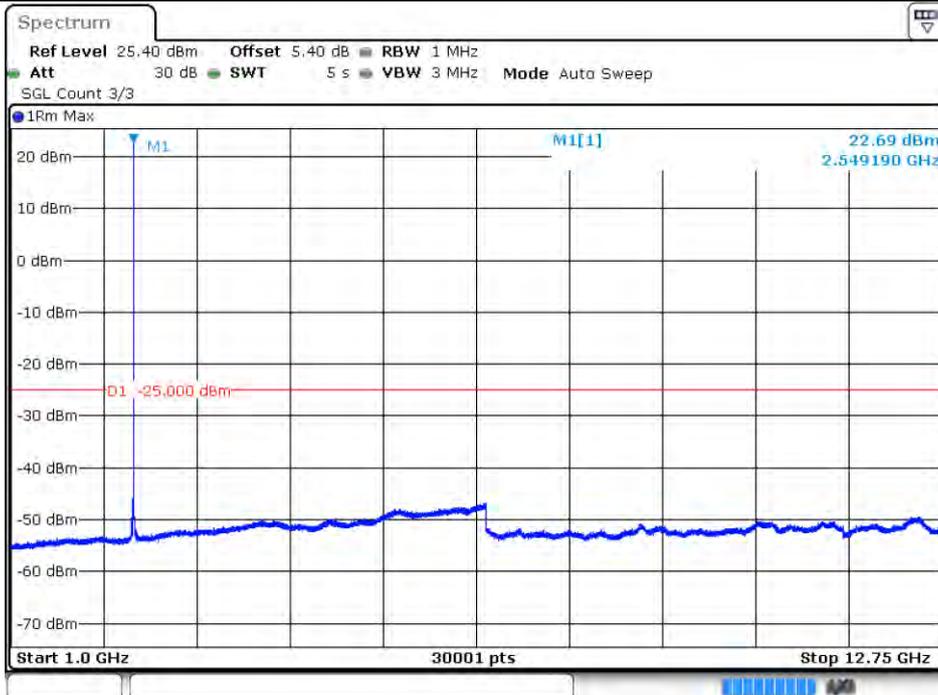


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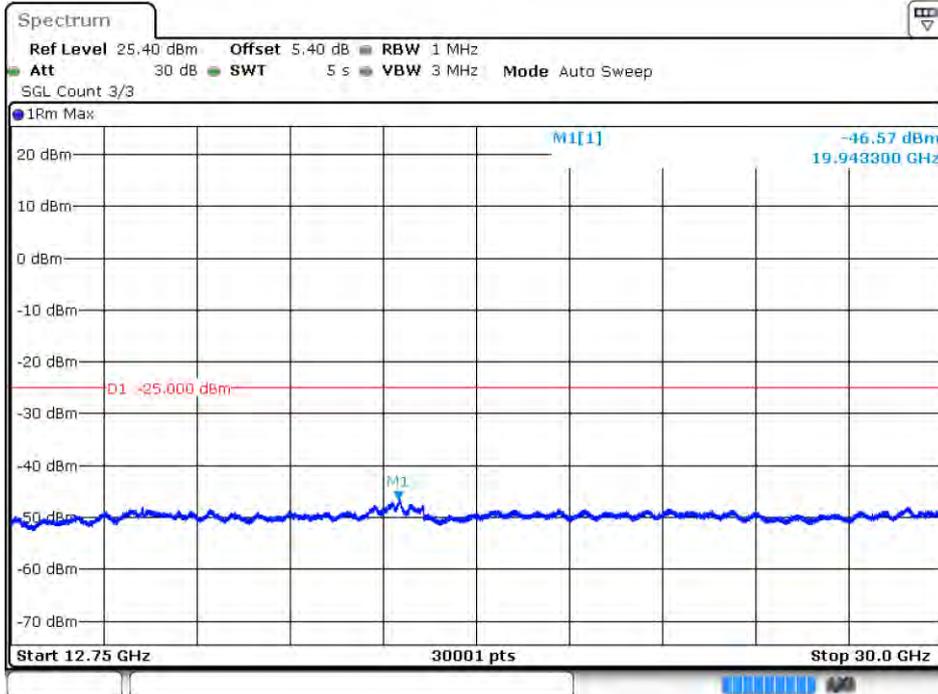


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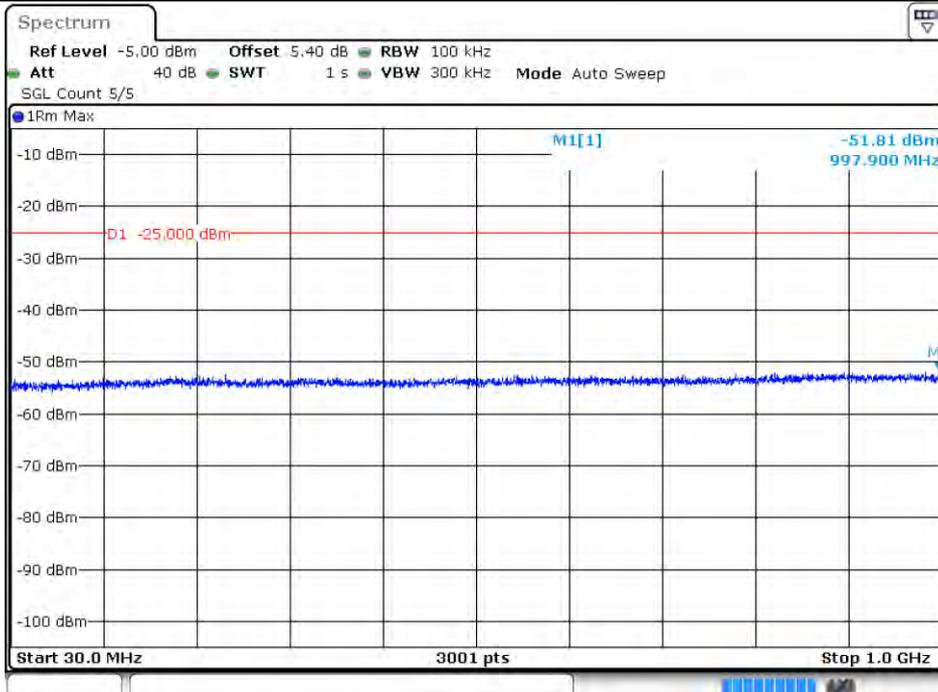


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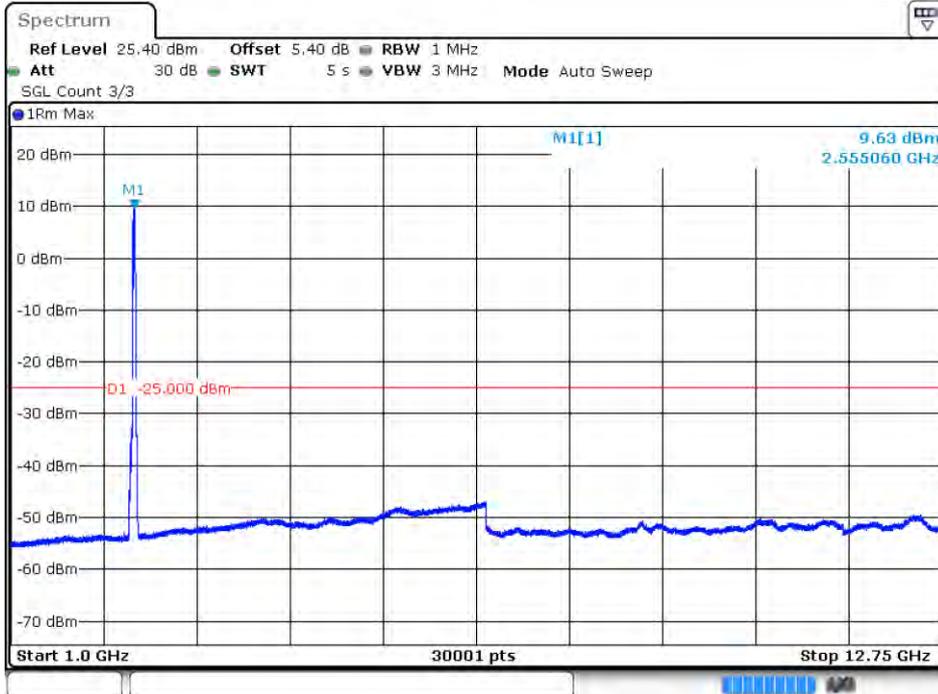
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Date: 15.OCT.2020 10:44:53

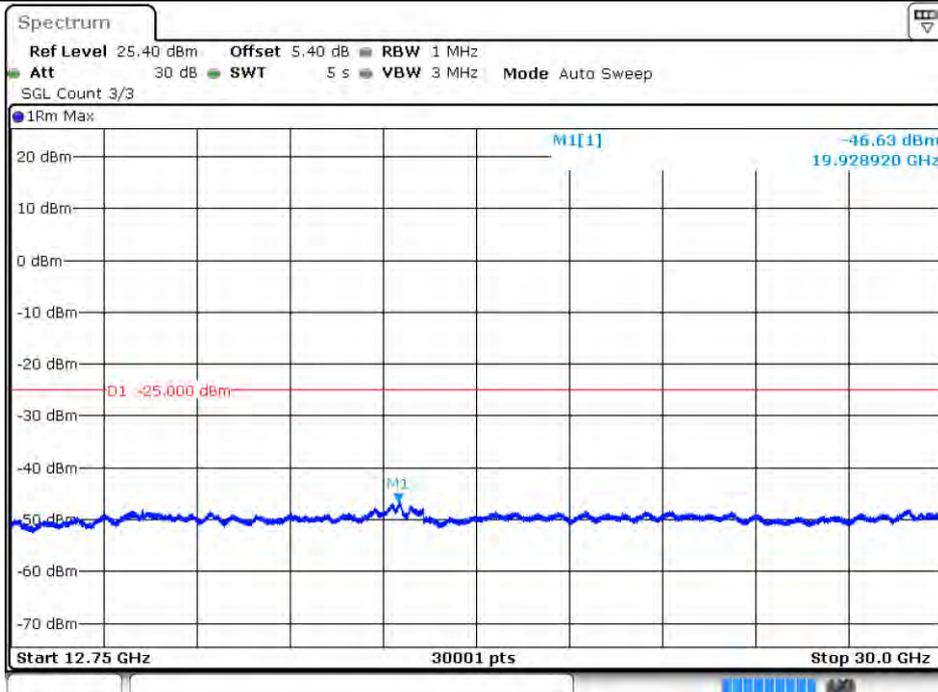


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Date: 15.OCT.2020 10:52:01

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Date: 15.OCT.2020 10:59:49



## 7 Field Strength of Spurious Radiation

### 7.1 Test Band = LTE Band CA\_7C (Ant1)

#### 7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.700000	-79.32	-25.00	54.32	Vertical
352.550000	-83.52	-25.00	58.52	Vertical
935.558333	-75.38	-25.00	50.38	Vertical
5039.700000	-64.60	-25.00	39.60	Vertical
7497.350000	-63.65	-25.00	38.65	Vertical
10002.450000	-62.54	-25.00	37.54	Vertical
56.050000	-75.37	-25.00	50.37	Horizontal
165.100000	-82.46	-25.00	57.46	Horizontal
959.025000	-75.32	-25.00	50.32	Horizontal
5039.700000	-65.47	-25.00	40.47	Horizontal
7420.650000	-63.64	-25.00	38.64	Horizontal
10039.825000	-62.40	-25.00	37.40	Horizontal

#### 7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.350000	-79.14	-25.00	54.14	Vertical
361.400000	-83.74	-25.00	58.74	Vertical
934.962500	-75.37	-25.00	50.37	Vertical
5069.925000	-65.16	-25.00	40.16	Vertical
7489.550000	-63.80	-25.00	38.80	Vertical
10056.400000	-62.52	-25.00	37.52	Vertical
62.700000	-75.77	-25.00	50.77	Horizontal
165.700000	-83.66	-25.00	58.66	Horizontal
938.308333	-74.97	-25.00	49.97	Horizontal
5069.925000	-64.89	-25.00	39.89	Horizontal
7692.675000	-63.39	-25.00	38.39	Horizontal
10230.925000	-62.50	-25.00	37.50	Horizontal

#### 7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
-----------------	-------------	------------------	-------------	--------------



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55.750000	-79.83	-25.00	54.83	Vertical
341.000000	-83.69	-25.00	58.69	Vertical
937.070833	-75.34	-25.00	50.34	Vertical
5092.025000	-65.51	-25.00	40.51	Vertical
7760.275000	-63.18	-25.00	38.18	Vertical
10518.225000	-61.77	-25.00	36.77	Vertical
56.100000	-76.14	-25.00	51.14	Horizontal
166.350000	-83.18	-25.00	58.18	Horizontal
936.108333	-75.28	-25.00	50.28	Horizontal
5030.925000	-66.05	-25.00	41.05	Horizontal
7579.900000	-63.71	-25.00	38.71	Horizontal
10001.475000	-62.41	-25.00	37.41	Horizontal

## 7.2 Test Band = LTE Band CA\_7C (Ant2)

### 7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.700000	-77.12	-25.00	52.12	Vertical
277.050000	-78.15	-25.00	53.15	Vertical
947.658333	-75.31	-25.00	50.31	Vertical
5081.300000	-65.58	-25.00	40.58	Vertical
7522.375000	-63.30	-25.00	38.30	Vertical
10003.750000	-62.45	-25.00	37.45	Vertical
56.950000	-75.67	-25.00	50.67	Horizontal
174.800000	-76.18	-25.00	51.18	Horizontal
957.879167	-75.34	-25.00	50.34	Horizontal
5039.375000	-64.75	-25.00	39.75	Horizontal
7523.350000	-63.50	-25.00	38.50	Horizontal
10020.975000	-62.49	-25.00	37.49	Horizontal



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**7.1.4 Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.800000	-77.74	-25.00	52.74	Vertical
275.300000	-79.30	-25.00	54.30	Vertical
950.316667	-75.32	-25.00	50.32	Vertical
5099.500000	-65.56	-25.00	40.56	Vertical
7757.675000	-62.58	-25.00	37.58	Vertical
10358.975000	-62.48	-25.00	37.48	Vertical
62.400000	-75.36	-25.00	50.36	Horizontal
275.000000	-76.97	-25.00	51.97	Horizontal
960.995833	-75.04	-25.00	50.04	Horizontal
5069.925000	-64.53	-25.00	39.53	Horizontal
7765.475000	-62.52	-25.00	37.52	Horizontal
10007.000000	-62.04	-25.00	37.04	Horizontal

**7.1.5 Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.750000	-77.92	-25.00	52.92	Vertical
277.300000	-79.33	-25.00	54.33	Vertical
957.787500	-75.28	-25.00	50.28	Vertical
5077.725000	-65.95	-25.00	40.95	Vertical
7504.175000	-63.62	-25.00	38.62	Vertical
10072.975000	-62.42	-25.00	37.42	Vertical
63.000000	-75.37	-25.00	50.37	Horizontal
263.000000	-77.54	-25.00	52.54	Horizontal
952.287500	-75.06	-25.00	50.06	Horizontal
5100.150000	-64.01	-25.00	39.01	Horizontal
7710.550000	-62.90	-25.00	37.90	Horizontal
10001.150000	-62.10	-25.00	37.10	Horizontal

Remark:

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



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## 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_7C	QPSK	20850-21048	100RB#0/100RB#0	TN	NV	-10.42	-0.004159	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	TN	NV	14.44	0.005719	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	TN	NV	-13.54	-0.005330	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	TN	NV	6.62	0.002619	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	TN	NV	11.78	0.004628	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	TN	NV	9.99	0.003902	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	TN	NV	14.96	0.005970	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	TN	NV	-10.05	-0.003979	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	TN	NV	10.10	0.003975	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	TN	NV	-4.84	-0.001912	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	TN	NV	-5.54	-0.002176	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	TN	NV	3.74	0.001463	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	TN	NV	-13.70	-0.005467	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	TN	NV	-12.87	-0.005095	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	TN	NV	13.58	0.005345	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	TN	NV	11.84	0.004680	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	TN	NV	-9.53	-0.003746	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	TN	NV	7.27	0.002839	PASS



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### 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_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-30	-10.54	-0.004207	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-20	13.81	0.005510	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	-10	11.82	0.004719	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	0	9.43	0.003762	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	10	-8.57	-0.003422	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	20	3.64	0.001453	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	30	-1.08	-0.000433	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	40	8.14	0.003250	PASS
CA_7C	QPSK	20850-21048	100RB#0/100RB#0	NV	50	-4.04	-0.001612	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-30	7.20	0.002852	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-20	11.49	0.004549	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	-10	14.64	0.005797	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	0	-13.47	-0.005335	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	10	-2.91	-0.001151	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	20	-4.66	-0.001847	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	30	9.78	0.003872	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	40	-0.25	-0.000097	PASS
CA_7C	QPSK	21001-21199	100RB#0/100RB#0	NV	50	1.63	0.000644	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-30	6.91	0.002721	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-20	-8.48	-0.003339	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	-10	14.97	0.005894	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	0	-8.14	-0.003204	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	10	14.59	0.005742	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	20	13.89	0.005469	PASS



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CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	30	9.24	0.003638	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	40	-11.85	-0.004664	PASS
CA_7C	QPSK	21152-21350	100RB#0/100RB#0	NV	50	9.54	0.003755	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-30	14.58	0.005762	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-20	-3.42	-0.001352	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	-10	-4.45	-0.001758	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	0	-4.48	-0.001773	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	10	-0.92	-0.000364	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	20	0.15	0.000060	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	30	-0.03	-0.000011	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	40	7.94	0.003137	PASS
CA_7C	QPSK	21048-20850	100RB#0/100RB#0	NV	50	-6.95	-0.002748	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-30	-0.53	-0.000207	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-20	8.15	0.003204	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	-10	-2.68	-0.001053	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	0	-5.57	-0.002190	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	10	0.99	0.000389	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	20	4.44	0.001746	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	30	11.60	0.004556	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	40	5.74	0.002254	PASS
CA_7C	QPSK	21199-21001	100RB#0/100RB#0	NV	50	2.02	0.000795	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-30	7.46	0.002912	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-20	11.99	0.004685	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	-10	-14.80	-0.005782	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	0	5.70	0.002228	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	10	11.93	0.004659	PASS



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CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	20	-2.31	-0.000901	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	30	7.28	0.002842	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	40	-3.58	-0.001400	PASS
CA_7C	QPSK	21350-21152	100RB#0/100RB#0	NV	50	-8.95	-0.003497	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-30	13.97	0.005577	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-20	8.25	0.003292	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	-10	13.18	0.005261	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	0	-12.77	-0.005098	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	10	5.02	0.002002	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	20	-6.83	-0.002726	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	30	-6.57	-0.002620	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	40	2.90	0.001156	PASS
CA_7C	16QAM	20850-21048	100RB#0/100RB#0	NV	50	-13.14	-0.005244	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-30	-3.74	-0.001482	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-20	-3.78	-0.001498	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	-10	-11.97	-0.004740	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	0	-14.23	-0.005636	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	10	-0.08	-0.000033	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	20	-9.40	-0.003721	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	30	-5.77	-0.002284	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	40	-7.37	-0.002917	PASS
CA_7C	16QAM	21001-21199	100RB#0/100RB#0	NV	50	-0.48	-0.000191	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-30	-7.18	-0.002826	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-20	-6.56	-0.002583	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	-10	-13.42	-0.005283	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	0	-3.57	-0.001407	PASS



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CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	10	14.24	0.005605	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	20	10.95	0.004311	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	30	3.22	0.001266	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	40	-4.87	-0.001917	PASS
CA_7C	16QAM	21152-21350	100RB#0/100RB#0	NV	50	10.10	0.003978	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-30	4.20	0.001662	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-20	5.97	0.002359	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	-10	-12.22	-0.004829	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	0	11.94	0.004720	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	10	-3.84	-0.001520	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	20	14.65	0.005790	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	30	0.08	0.000031	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	40	-7.25	-0.002867	PASS
CA_7C	16QAM	21048-20850	100RB#0/100RB#0	NV	50	-9.40	-0.003717	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-30	1.76	0.000693	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-20	11.51	0.004522	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	-10	5.01	0.001970	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	0	9.66	0.003797	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	10	0.68	0.000268	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	20	-9.09	-0.003572	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	30	-8.76	-0.003442	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	40	9.99	0.003924	PASS
CA_7C	16QAM	21199-21001	100RB#0/100RB#0	NV	50	9.60	0.003773	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-30	1.80	0.000701	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-20	12.00	0.004687	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	-10	1.39	0.000542	PASS



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CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	0	9.20	0.003594	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	10	-9.56	-0.003733	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	20	1.81	0.000709	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	30	-4.76	-0.001859	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	40	10.84	0.004235	PASS
CA_7C	16QAM	21350-21152	100RB#0/100RB#0	NV	50	-6.50	-0.002539	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-30	-5.41	-0.002160	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-20	11.11	0.004436	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	-10	-13.50	-0.005389	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	0	-1.03	-0.000413	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	10	0.26	0.000104	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	20	2.78	0.001111	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	30	-6.89	-0.002748	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	40	5.40	0.002155	PASS
CA_7C	64QAM	20850-21048	100RB#0/100RB#0	NV	50	9.55	0.003812	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-30	4.92	0.001948	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-20	-0.89	-0.000351	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	-10	-7.35	-0.002913	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	0	-9.86	-0.003903	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	10	7.79	0.003087	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	20	11.60	0.004596	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	30	4.29	0.001699	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	40	-14.32	-0.005673	PASS
CA_7C	64QAM	21001-21199	100RB#0/100RB#0	NV	50	-14.53	-0.005753	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-30	9.91	0.003899	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-20	-8.39	-0.003303	PASS



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CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	-10	5.75	0.002265	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	0	-2.54	-0.000999	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	10	-0.70	-0.000275	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	20	3.21	0.001265	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	30	-14.63	-0.005759	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	40	-10.85	-0.004270	PASS
CA_7C	64QAM	21152-21350	100RB#0/100RB#0	NV	50	-8.42	-0.003313	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-30	-6.62	-0.002618	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-20	-6.68	-0.002642	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	-10	-1.67	-0.000661	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	0	9.45	0.003736	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	10	-6.48	-0.002562	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	20	-14.92	-0.005899	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	30	-0.66	-0.000262	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	40	-7.94	-0.003140	PASS
CA_7C	64QAM	21048-20850	100RB#0/100RB#0	NV	50	-6.76	-0.002672	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-30	-6.86	-0.002697	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-20	-7.66	-0.003010	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	-10	-11.89	-0.004672	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	0	0.17	0.000066	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	10	-4.07	-0.001598	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	20	3.36	0.001320	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	30	-6.77	-0.002661	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	40	5.85	0.002298	PASS
CA_7C	64QAM	21199-21001	100RB#0/100RB#0	NV	50	4.59	0.001804	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-30	2.06	0.000803	PASS



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CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-20	10.94	0.004274	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	-10	-8.23	-0.003216	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	0	-12.82	-0.005009	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	10	-8.51	-0.003325	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	20	6.11	0.002387	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	30	6.20	0.002421	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	40	-11.44	-0.004471	PASS
CA_7C	64QAM	21350-21152	100RB#0/100RB#0	NV	50	-11.20	-0.004376	PASS

The End



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