



Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.03	25.63	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.18	25.78	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.92	25.52	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.08	24.68	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.20	24.80	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.04	24.64	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.11	24.71	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.73	25.33	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.51	25.11	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.59	25.19	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.79	24.39	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.87	24.47	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.81	24.41	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.82	24.42	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.12	24.72	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.26	24.86	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.40	25.00	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.58	24.18	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.58	24.18	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.45	24.05	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.49	24.09	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.80	24.40	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.23	24.83	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.68	24.28	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.07	23.67	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.16	23.76	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.03	23.63	33.00	PASS



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Band7	5MHz	16QAM	20775	25RB#0	21.06	23.66	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.39	23.99	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.78	24.38	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.33	23.93	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.78	23.38	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.64	23.24	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.84	23.44	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.83	23.43	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.62	24.22	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.96	23.56	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.15	23.75	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.45	23.05	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.36	22.96	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.25	22.85	33.00	FAIL
Band7	5MHz	16QAM	21425	25RB#0	20.36	22.96	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.25	25.85	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.70	25.30	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.97	25.57	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.17	24.77	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.11	24.71	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.88	24.48	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.10	24.70	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.64	25.24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.38	24.98	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.93	25.53	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.61	24.21	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.91	24.51	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.94	24.54	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.74	24.34	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.78	25.38	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.31	24.91	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.07	24.67	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.74	24.34	33.00	PASS



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Band7	10MHz	QPSK	21400	25RB#25	21.37	23.97	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.67	24.27	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.54	24.14	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.85	24.45	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.84	24.44	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.80	24.40	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.08	23.68	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.04	23.64	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.22	23.82	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.28	23.88	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.37	23.97	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.45	24.05	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.59	24.19	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.73	23.33	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.86	23.46	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.77	23.37	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.75	23.35	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.23	23.83	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.25	23.85	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.19	23.79	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.60	23.20	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.51	23.11	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.50	23.10	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.66	23.26	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.02	25.62	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.31	25.91	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.68	25.28	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.19	24.79	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.18	24.78	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.04	24.64	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.11	24.71	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.80	25.40	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.42	25.02	33.00	PASS



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Band7	15MHz	QPSK	21100	1RB#38	23.02	25.62	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.93	24.53	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.91	24.51	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.68	24.28	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.74	24.34	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.07	24.67	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.51	25.11	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.56	25.16	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.61	24.21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.60	24.20	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.43	24.03	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.50	24.10	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.91	24.51	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.86	24.46	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.65	24.25	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.14	23.74	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.07	23.67	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.17	23.77	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.12	23.72	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.63	24.23	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.44	24.04	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.33	23.93	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.74	23.34	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.86	23.46	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.86	23.46	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.77	23.37	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.10	23.70	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.24	23.84	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.13	23.73	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.65	23.25	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.73	23.33	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.60	23.20	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.43	23.03	33.00	PASS



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Band7	20MHz	QPSK	20850	1RB#99	22.42	25.02	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.48	26.08	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.84	25.44	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.16	24.76	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.18	24.78	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.92	24.52	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.99	24.59	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.71	25.31	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.21	24.81	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.09	25.69	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.68	24.28	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.84	24.44	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.95	24.55	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.74	24.34	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.72	25.32	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.50	25.10	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.74	24.34	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.39	25.99	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.19	23.79	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.58	24.18	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.53	24.13	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.15	23.75	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.54	24.14	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.76	24.36	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.05	23.65	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.11	23.71	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.05	23.65	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.09	23.69	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.13	23.73	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.63	24.23	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.51	24.11	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.62	23.22	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.85	23.45	33.00	PASS



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Band7	20MHz	16QAM	21100	50RB#25	20.67	23.27	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.75	23.35	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.13	23.73	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.34	23.94	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.13	23.73	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.46	23.06	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.58	23.18	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.43	23.03	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.48	23.08	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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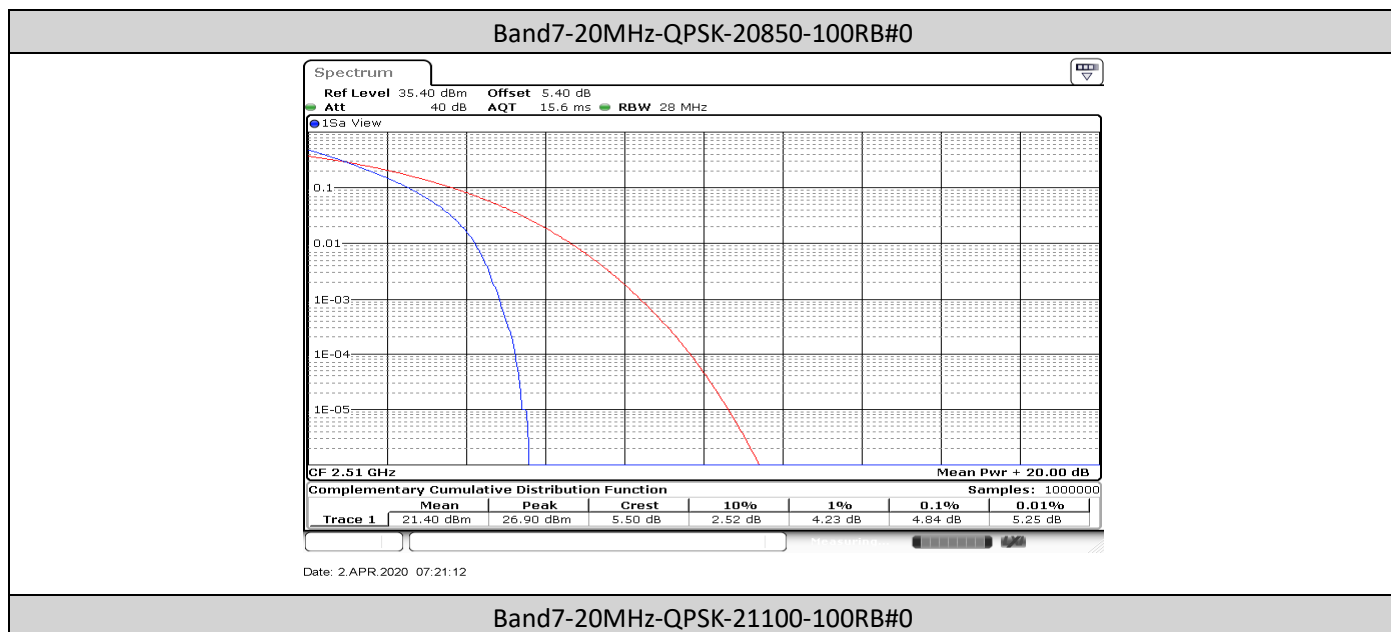


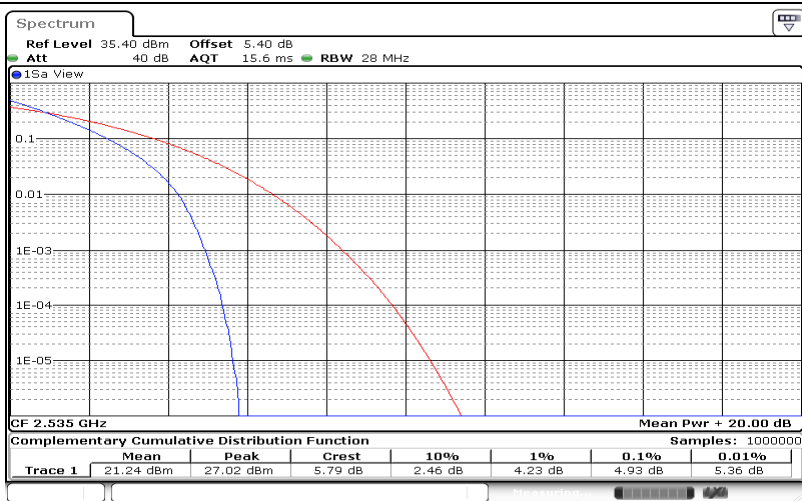
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.84	13.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.93	13.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.96	13.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.68	13.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.83	13.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.86	13.00	PASS

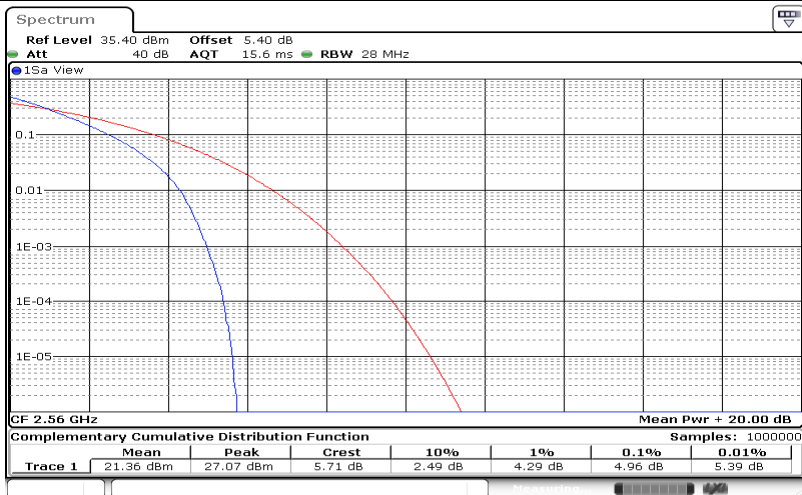
2.2. Test Plots





Date: 2.APR.2020 07:21:34

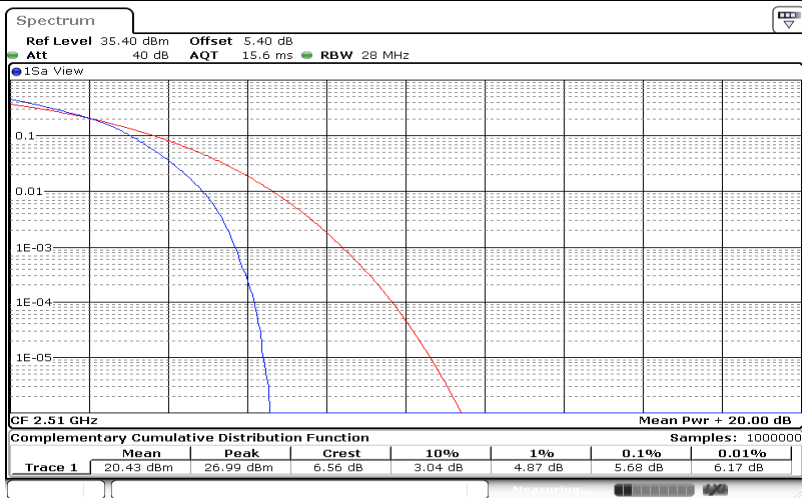
Band7-20MHz-QPSK-21350-100RB#0



Date: 2.APR.2020 07:21:56

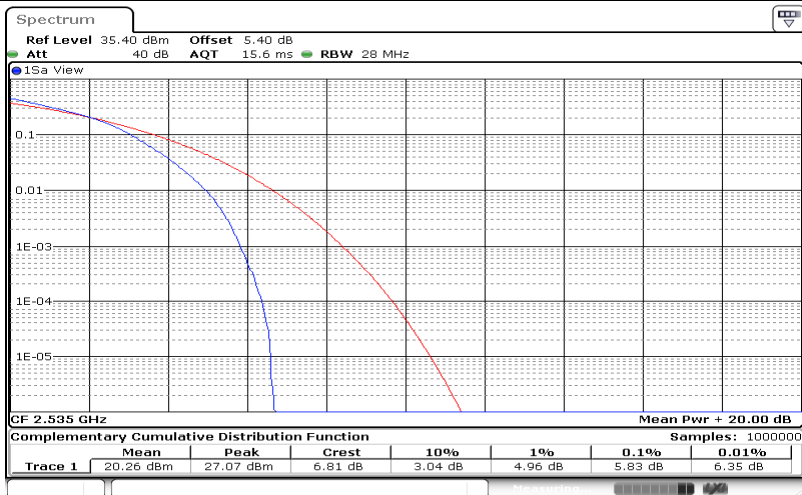
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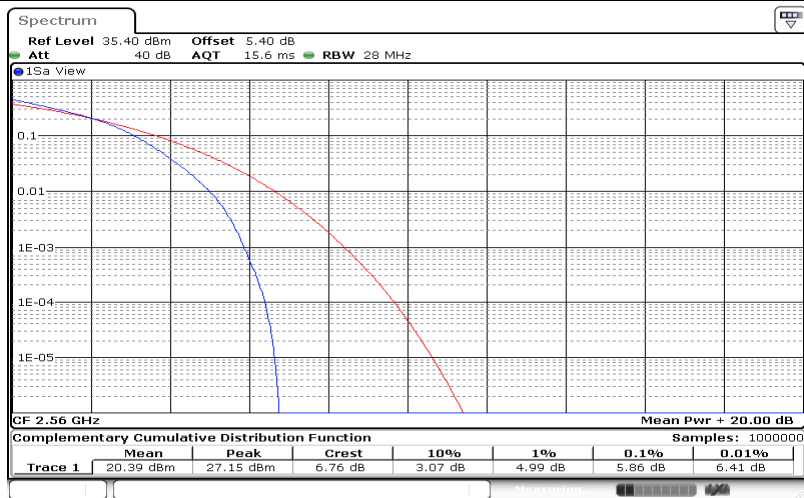
Band7-20MHz-16QAM-21100-100RB#0



Date: 2.APR.2020 07:21:45

Band7-20MHz-16QAM-21350-100RB#0





Date: 2 APR 2020 07:22:08

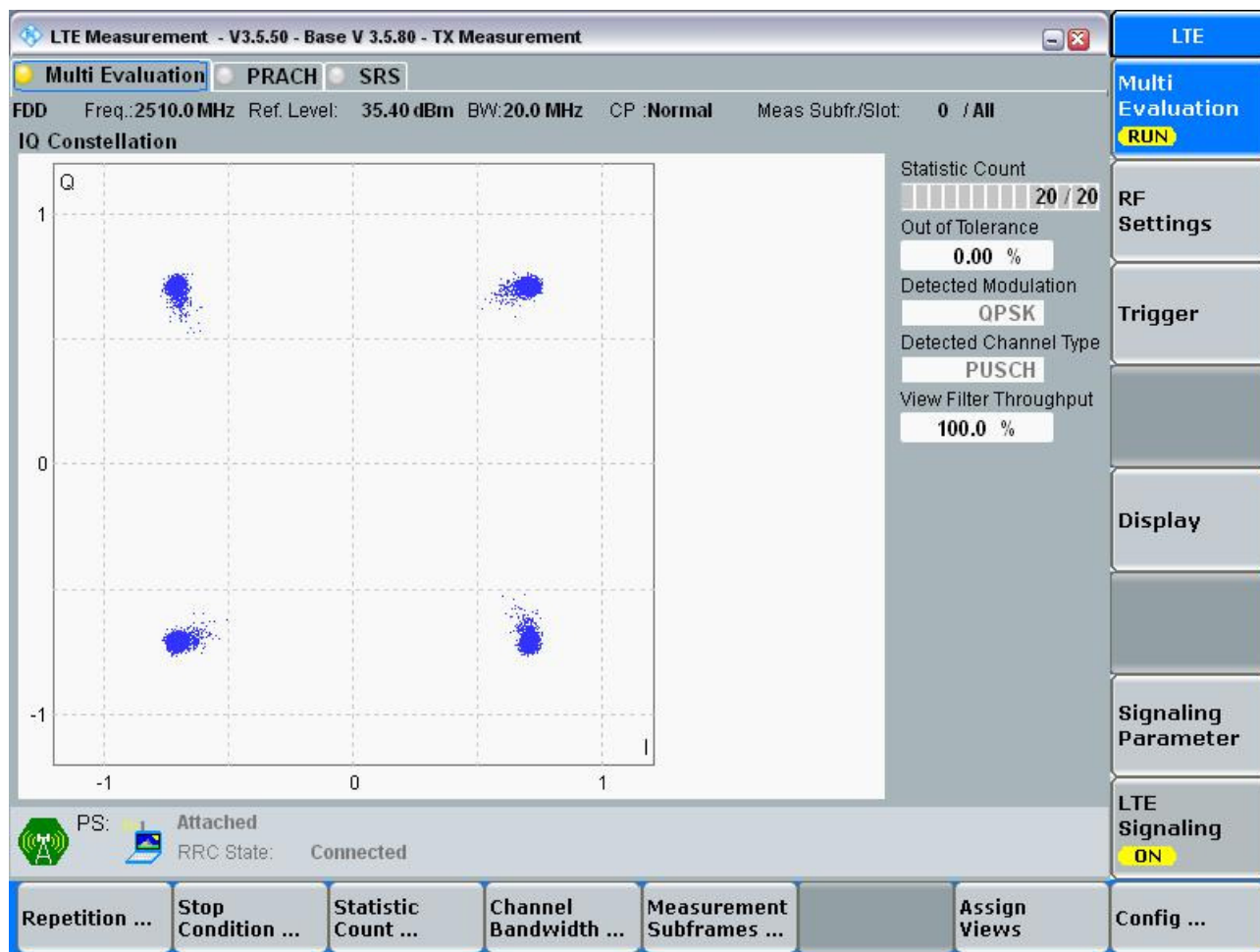


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

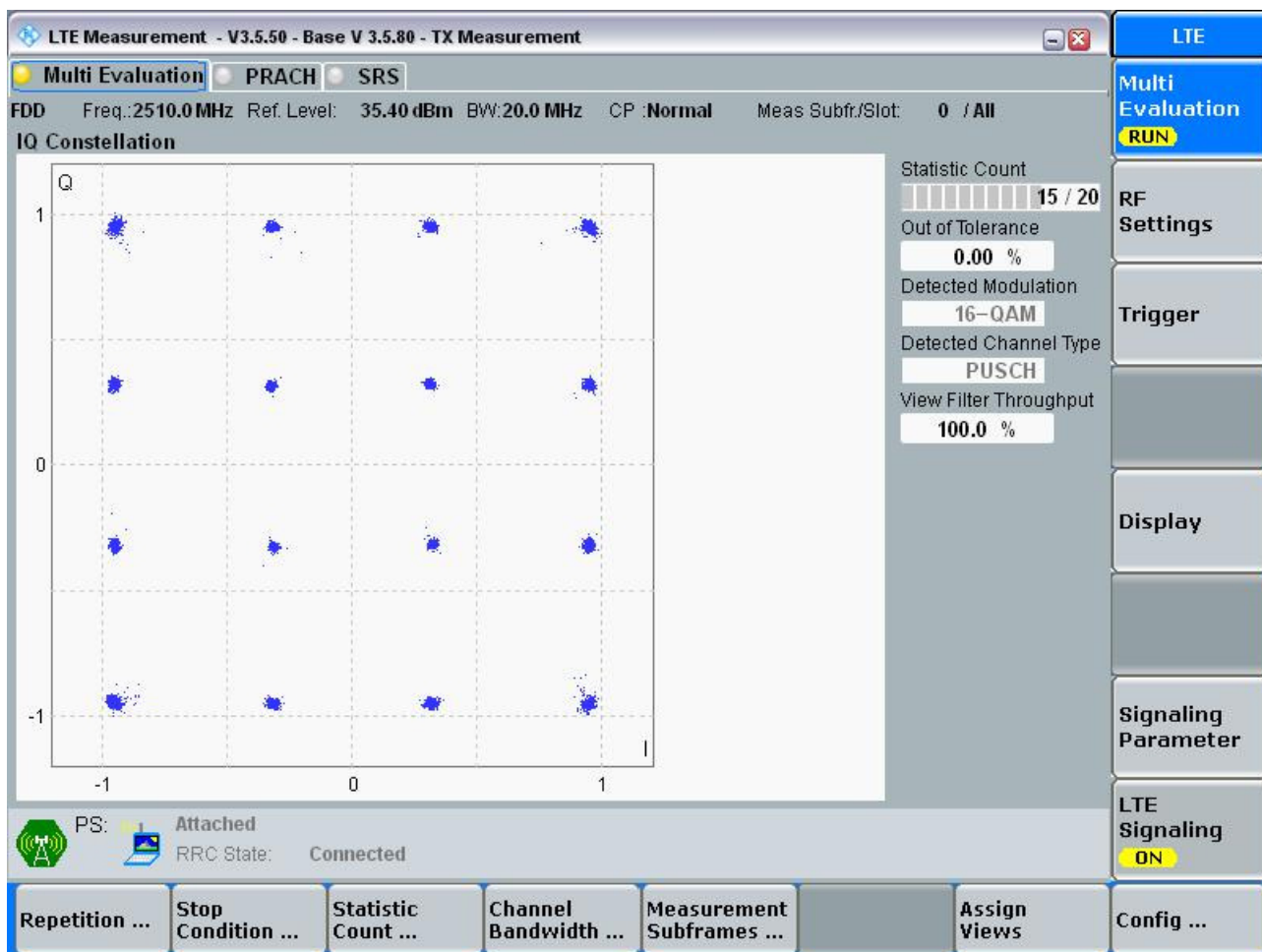
3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

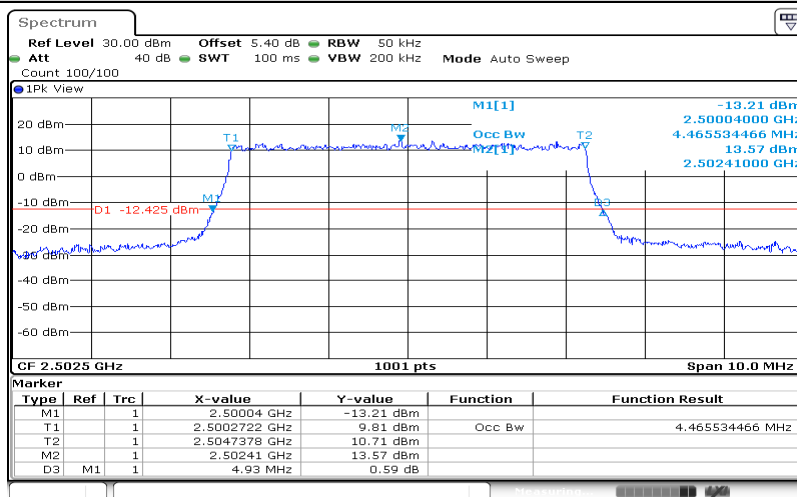
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.920	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.960	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.950	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.970	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.720	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.720	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.680	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.720	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.700	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.720	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.427	14.760	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.397	14.670	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.427	14.790	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.397	14.760	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.790	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.427	14.820	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.240	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.822	19.400	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.822	19.320	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.480	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.400	PASS





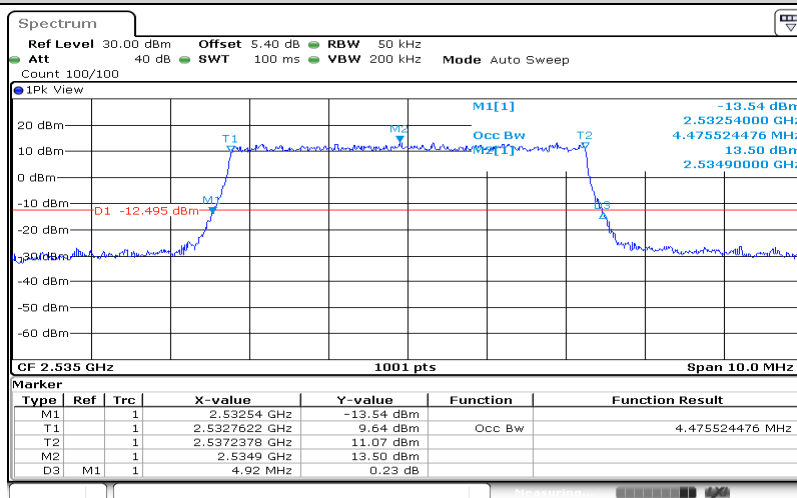
4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



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Band7-5MHz-QPSK-21100-25RB#0-4.476



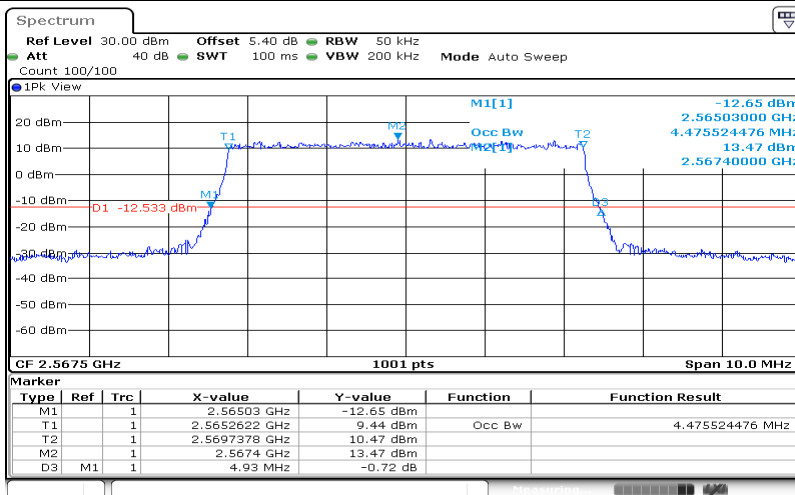
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Band7-5MHz-QPSK-21425-25RB#0-4.476



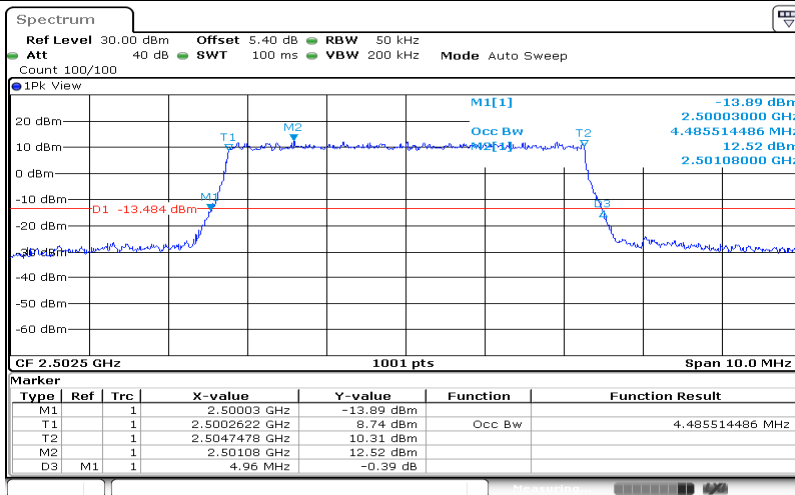
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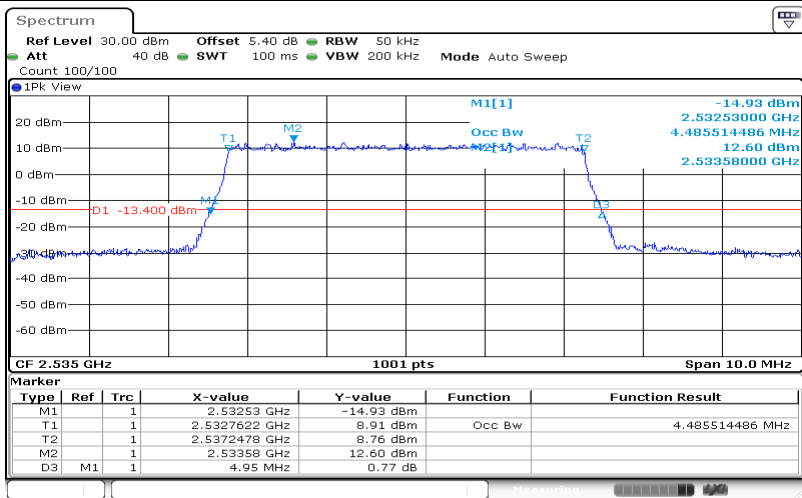
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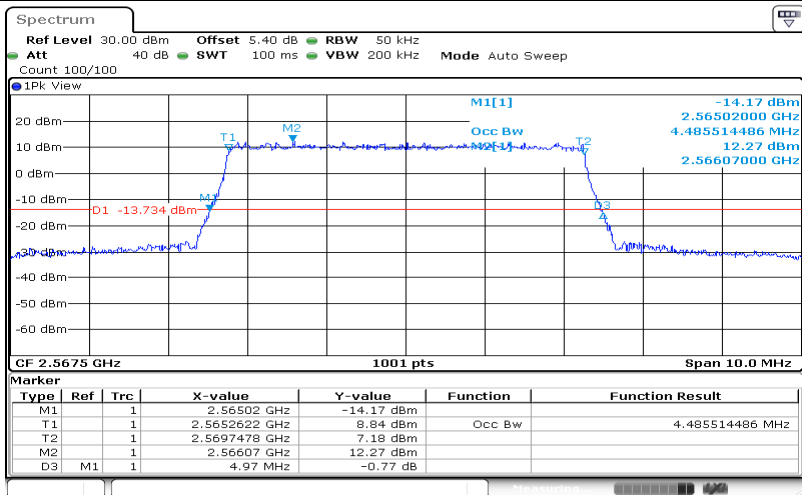
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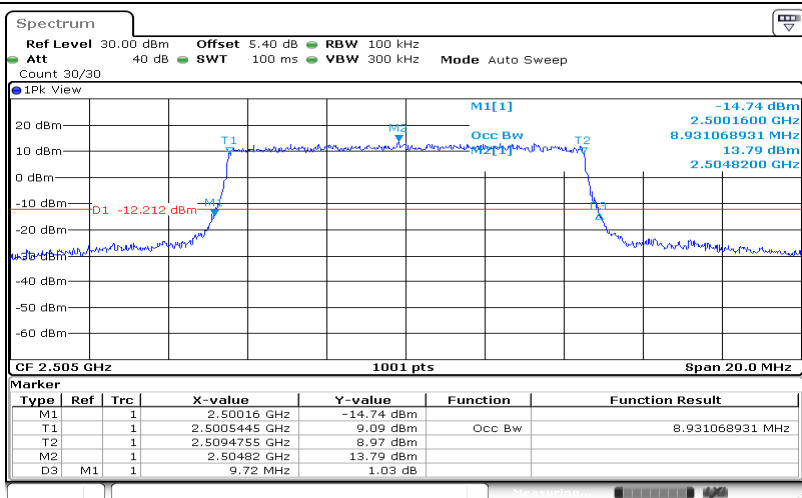
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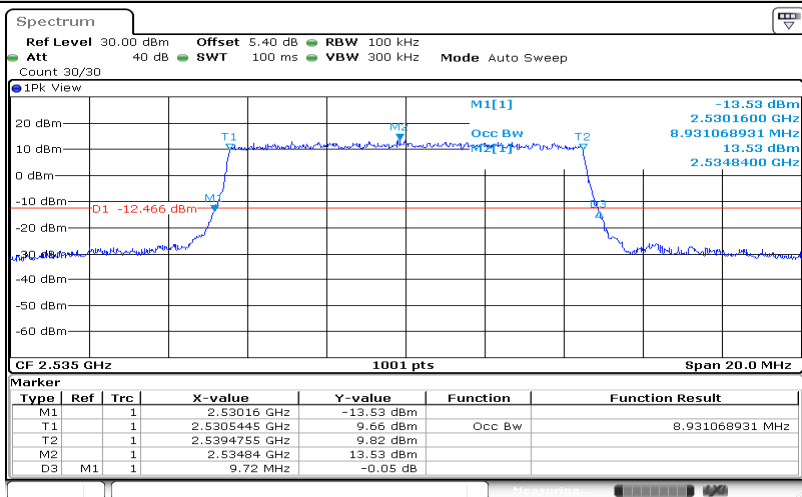
Band7-10MHz-QPSK-20800-50RB#0-8.931





Date: 2.APR.2020 07:01:53

Band7-10MHz-QPSK-21100-50RB#0-8.931



Date: 2.APR.2020 07:02:19

Band7-10MHz-QPSK-21400-50RB#0-8.911

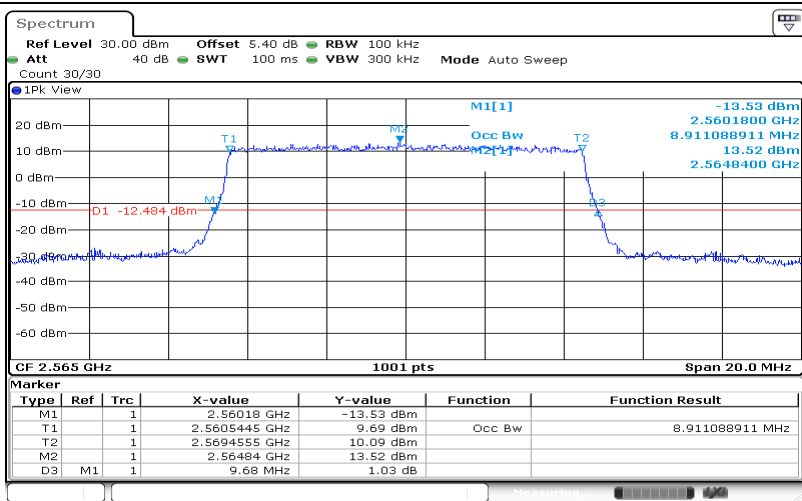


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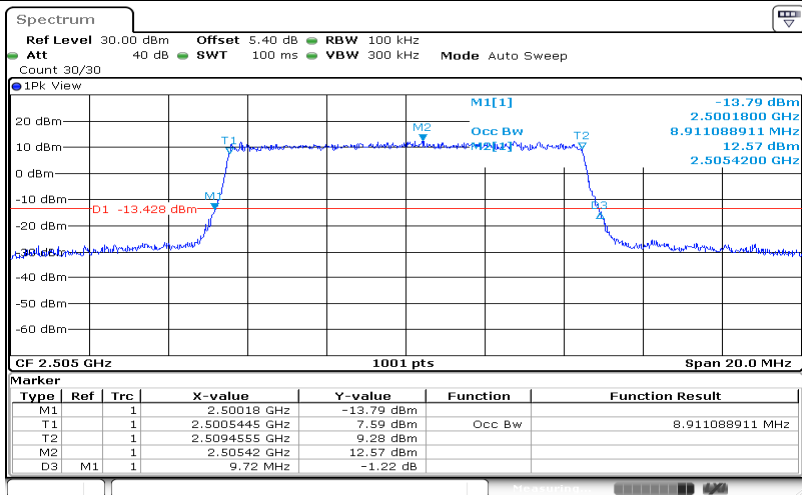
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Date: 2.APR.2020 07:02:44

Band7-10MHz-16QAM-20800-50RB#0-8.911



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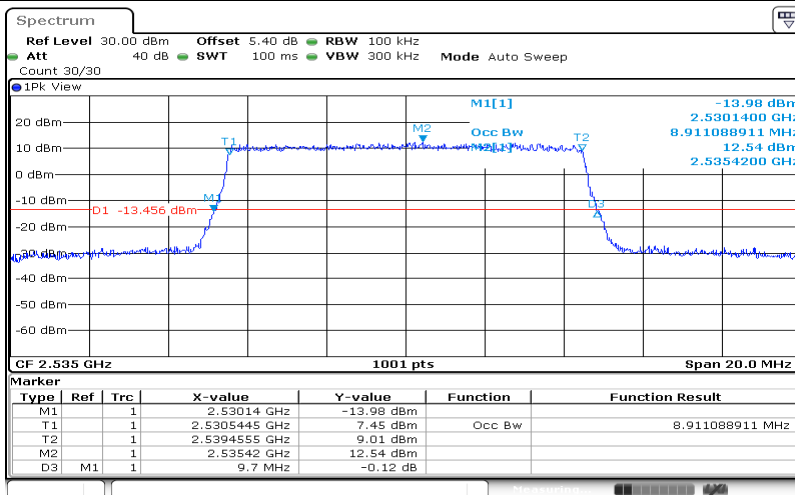
Band7-10MHz-16QAM-21100-50RB#0-8.911

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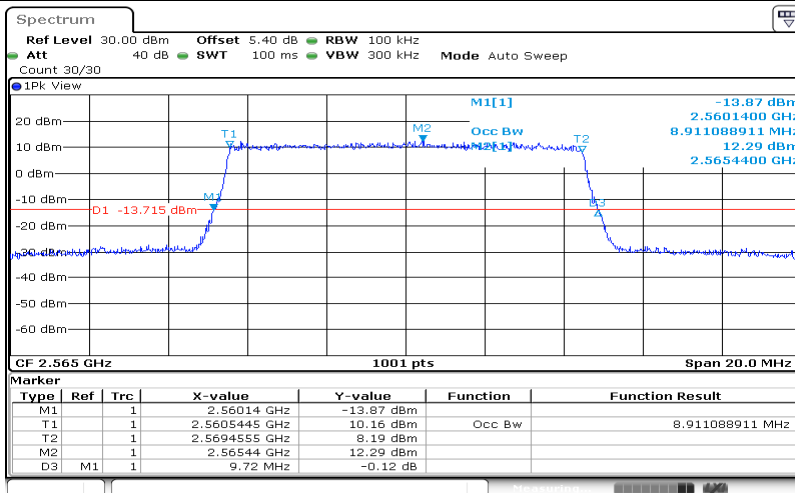
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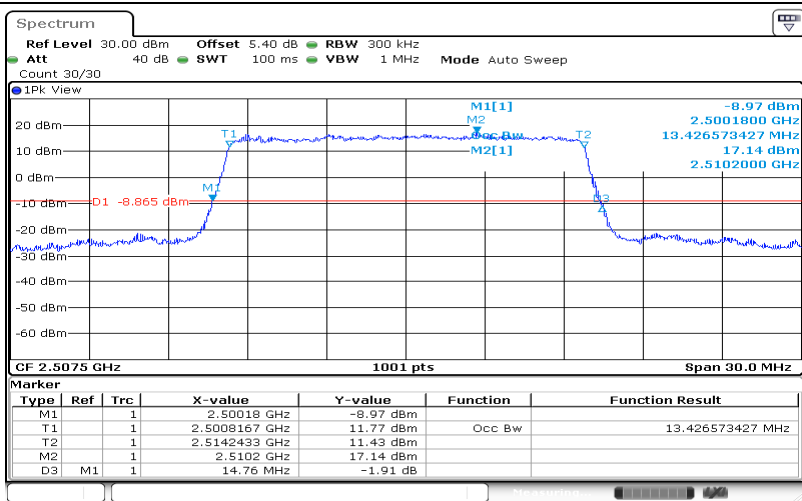
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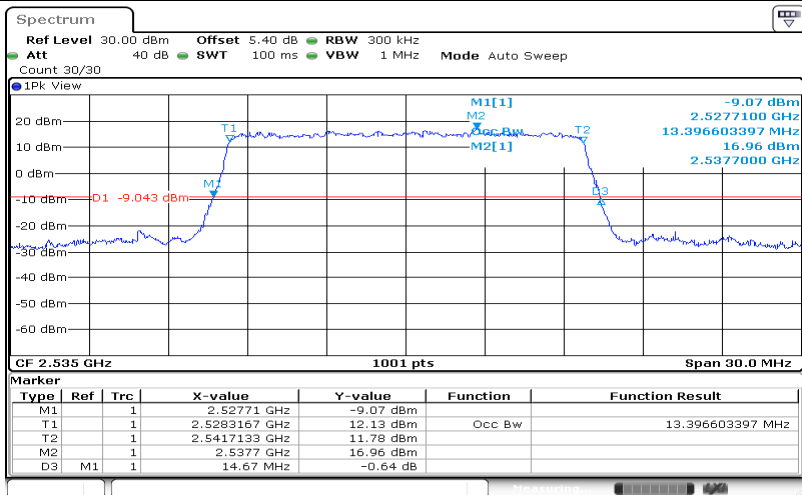
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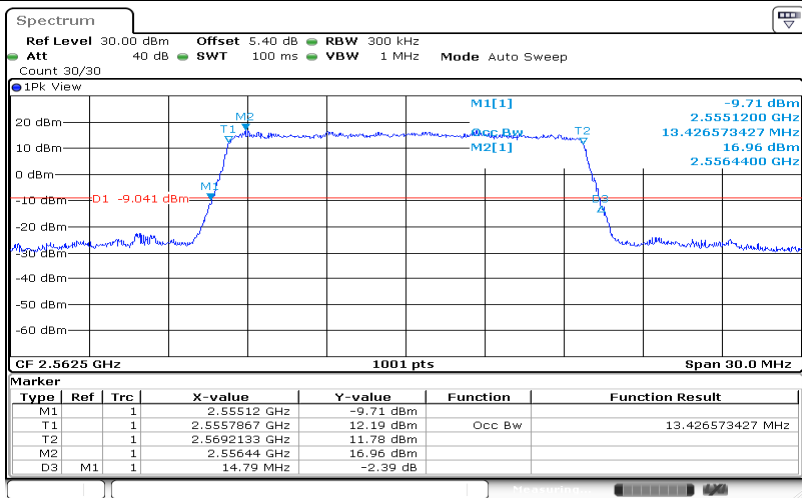
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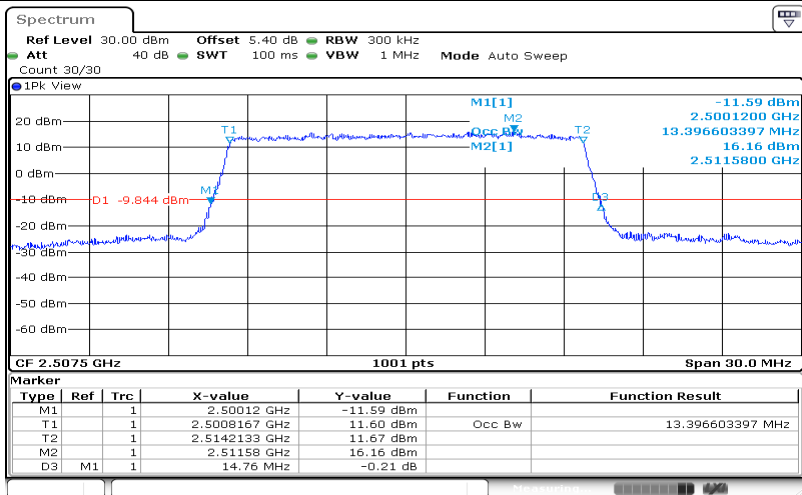
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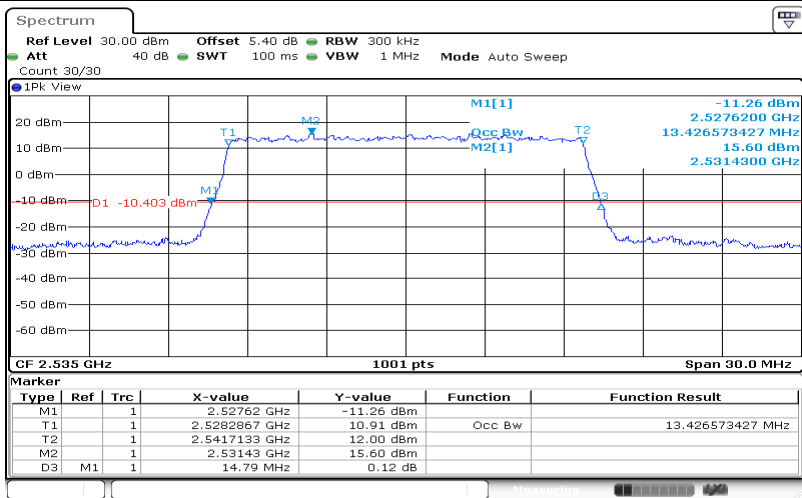
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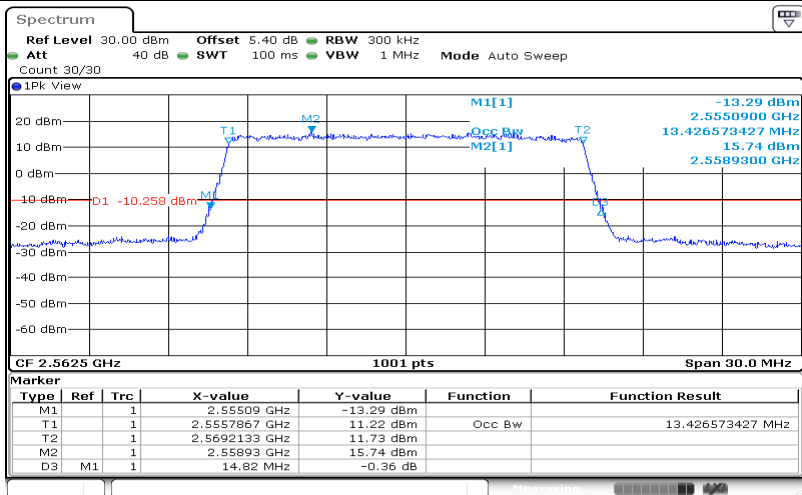
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Band7-15MHz-16QAM-21375-75RB#0-13.427



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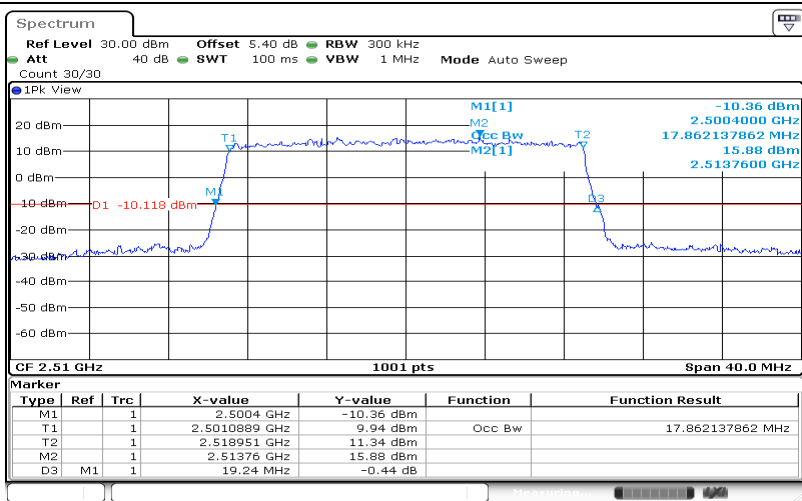
Band7-20MHz-QPSK-20850-100RB#0-17.862

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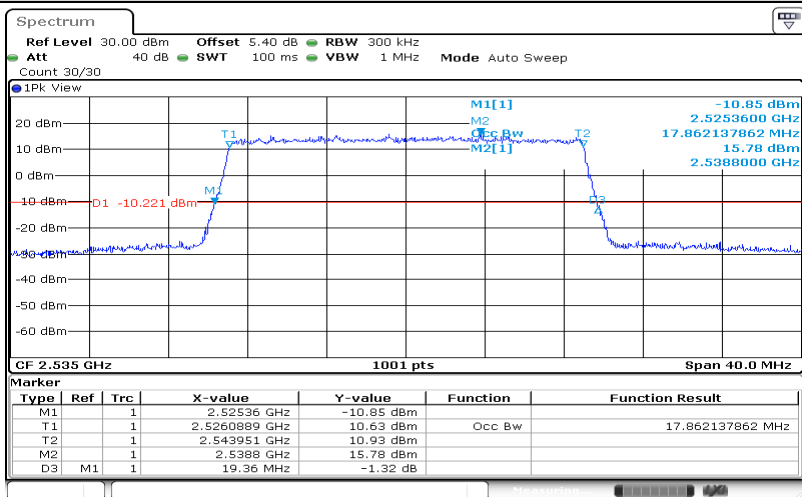
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Band7-20MHz-QPSK-21100-100RB#0-17.862



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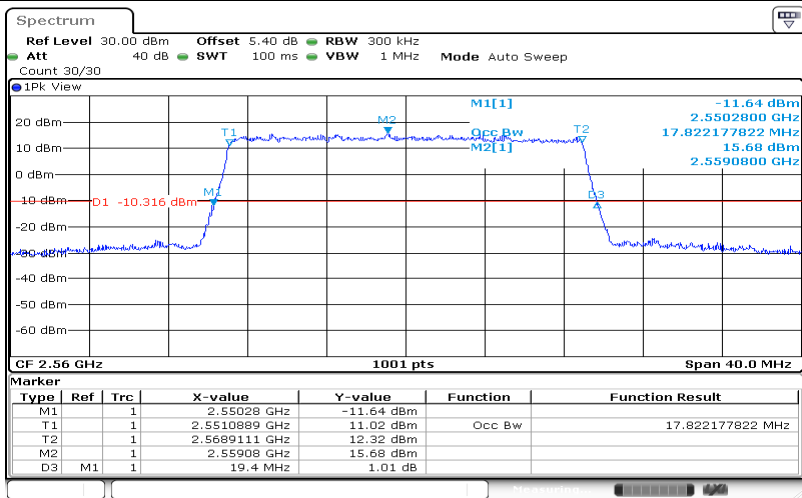
Band7-20MHz-QPSK-21350-100RB#0-17.822

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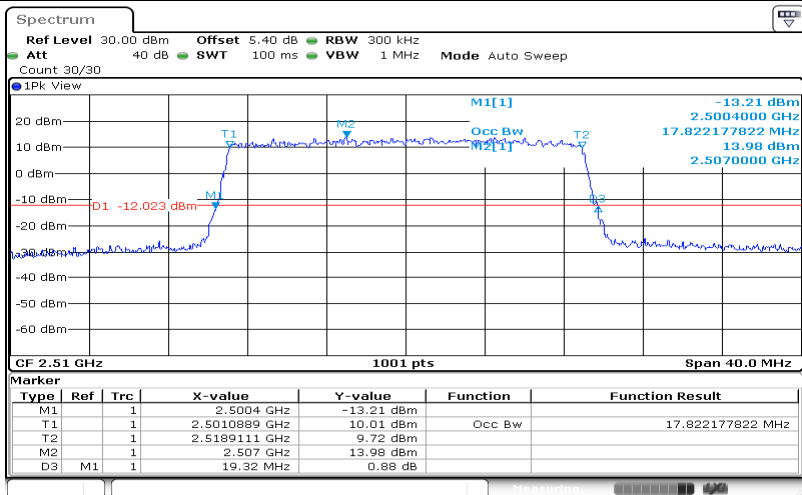
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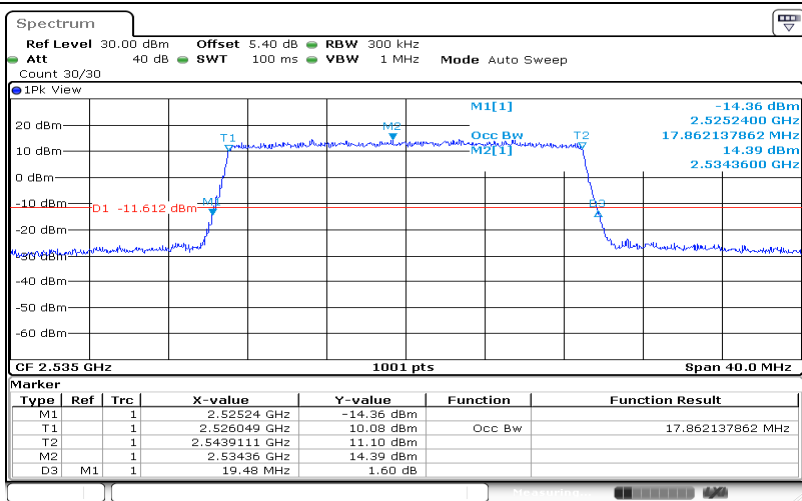
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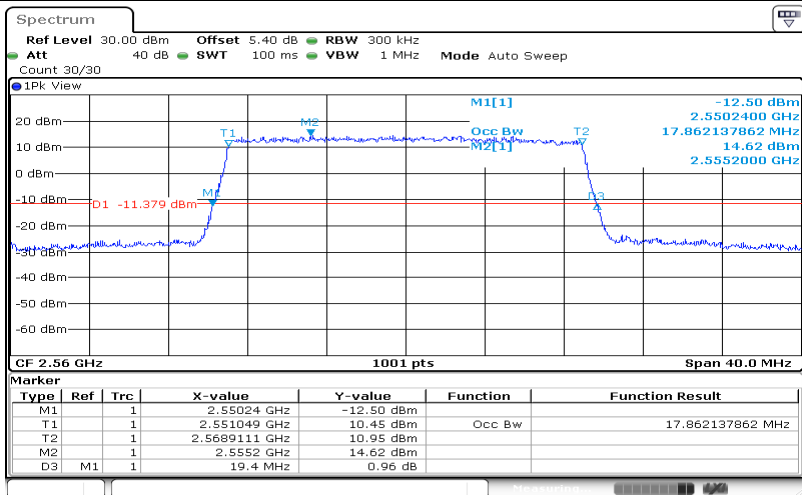
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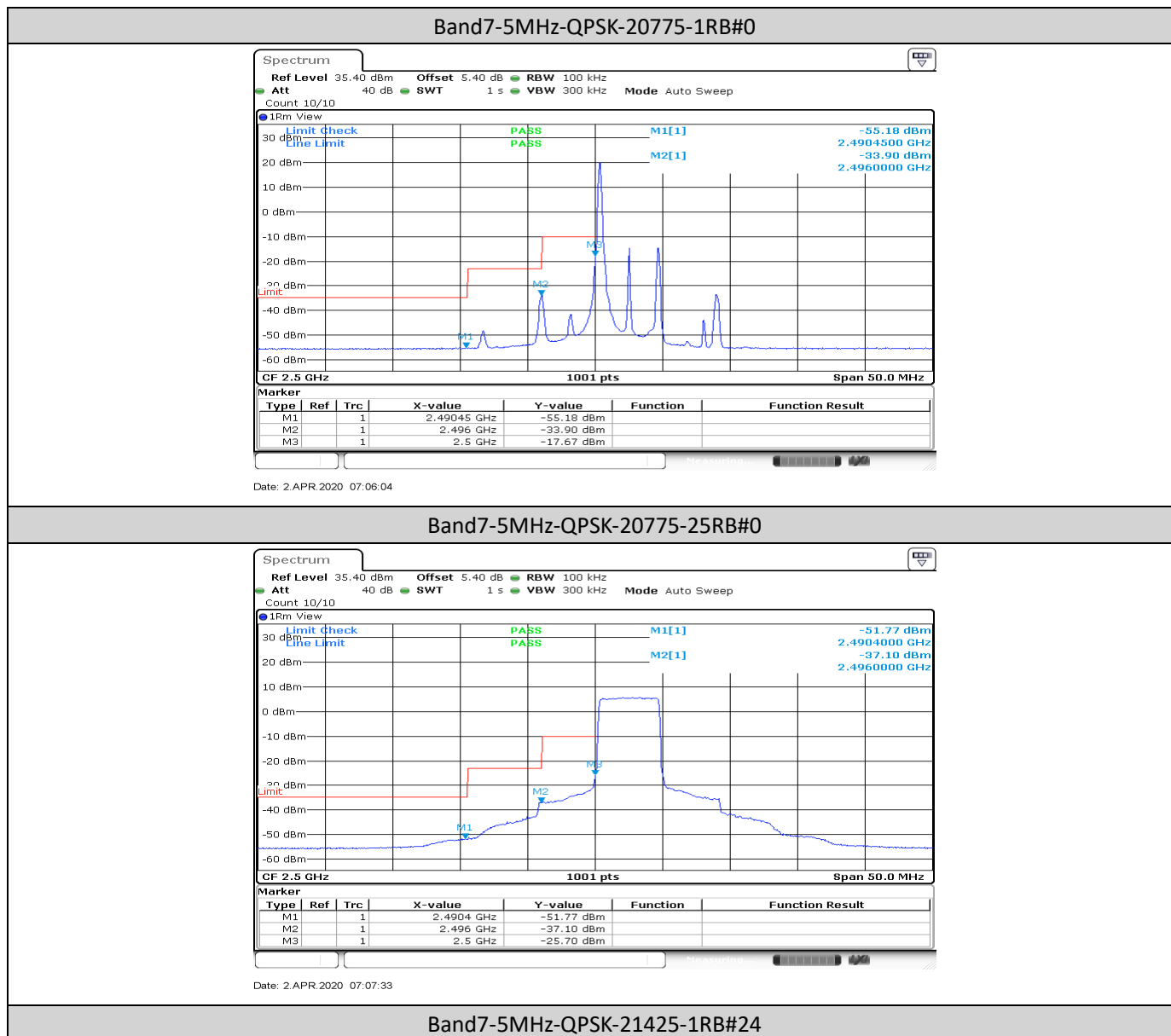


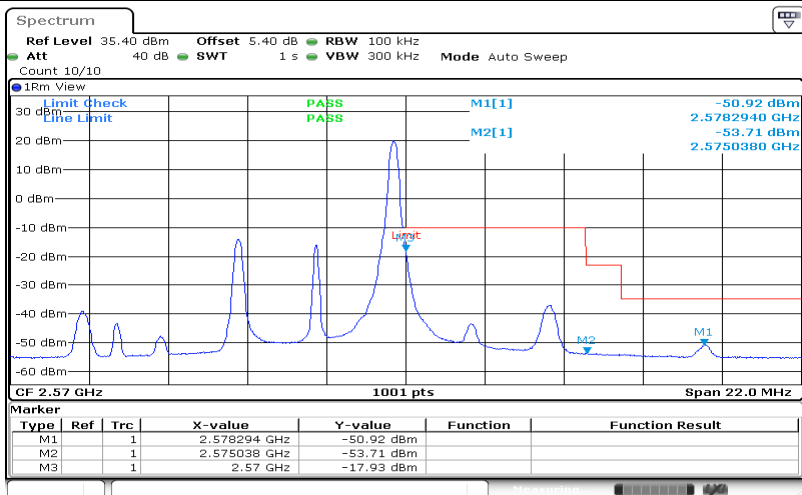
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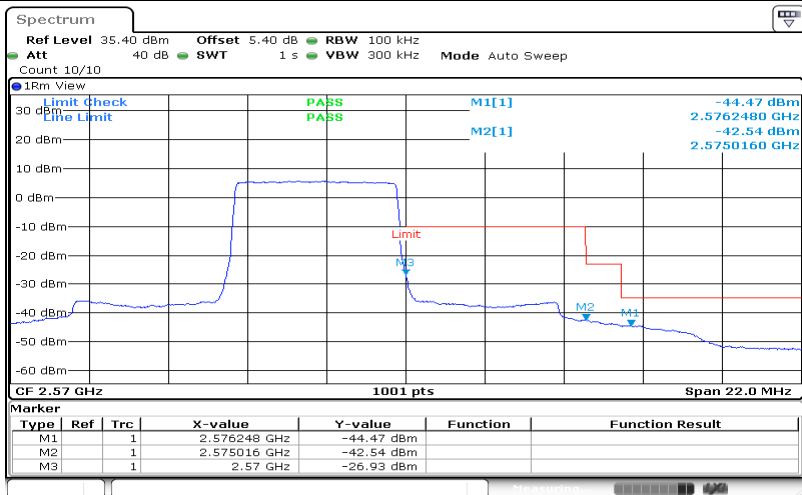
5. Band Edge Compliance

5.1. Test Plots



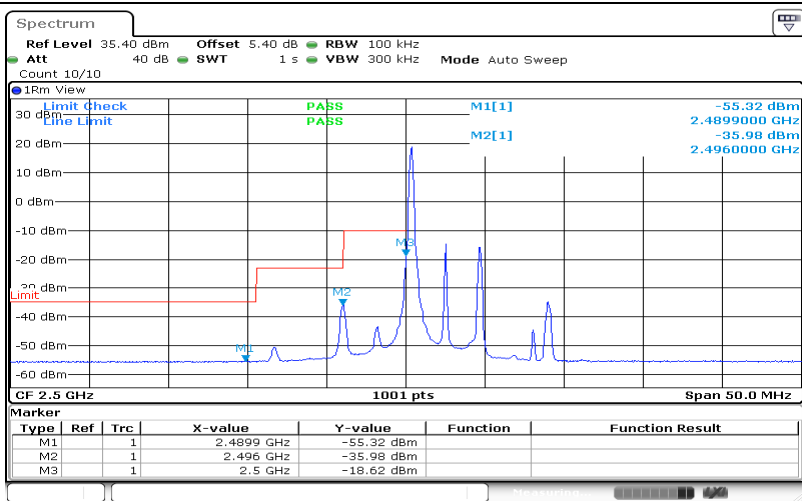


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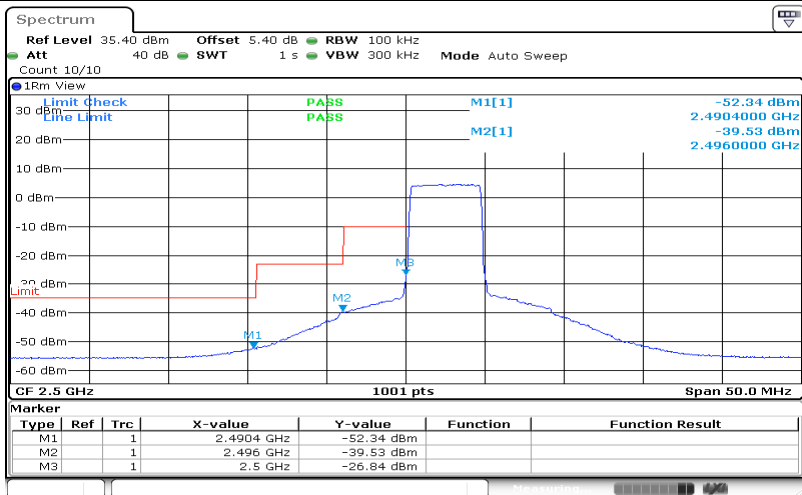
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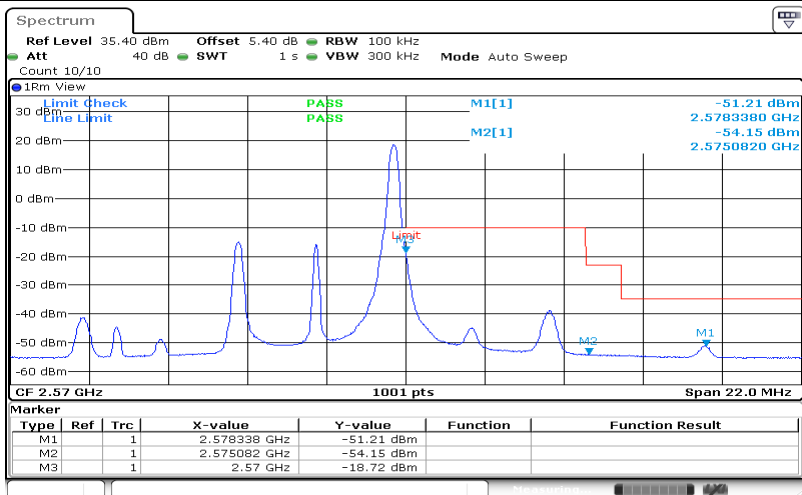
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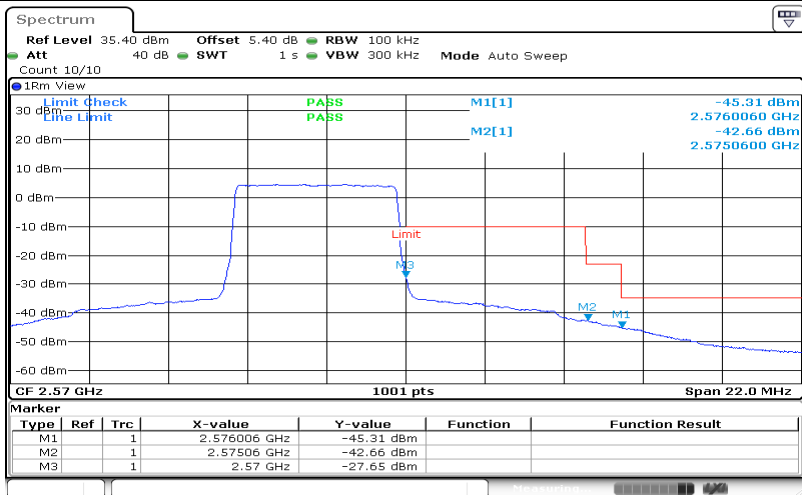
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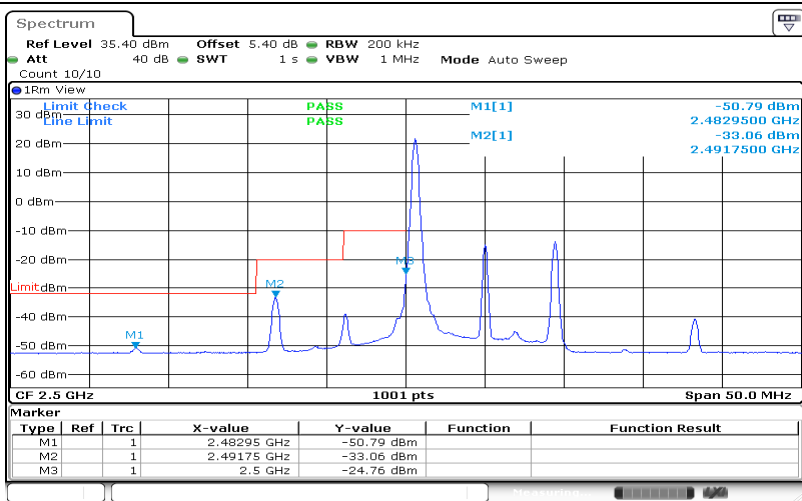


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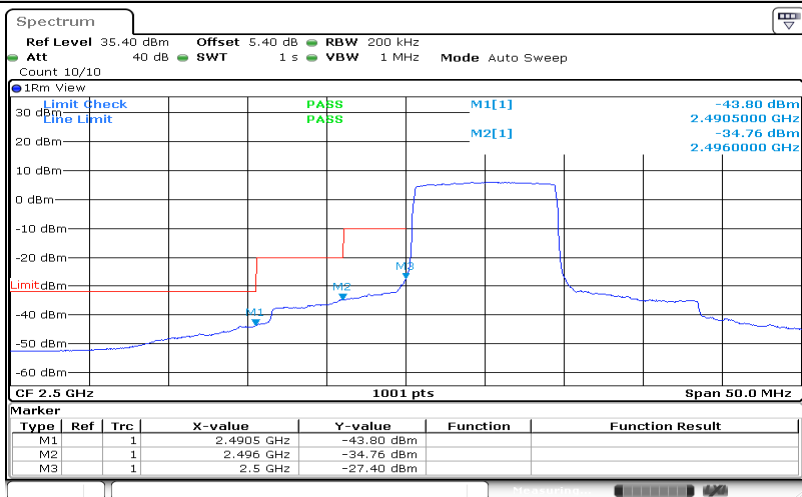


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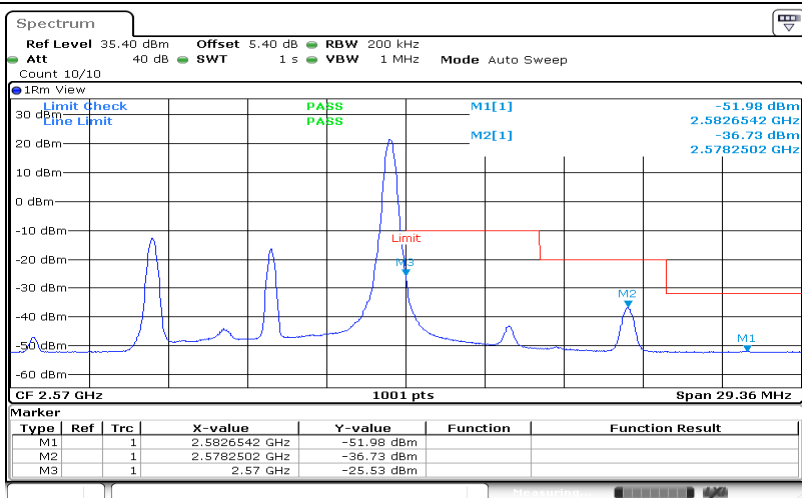


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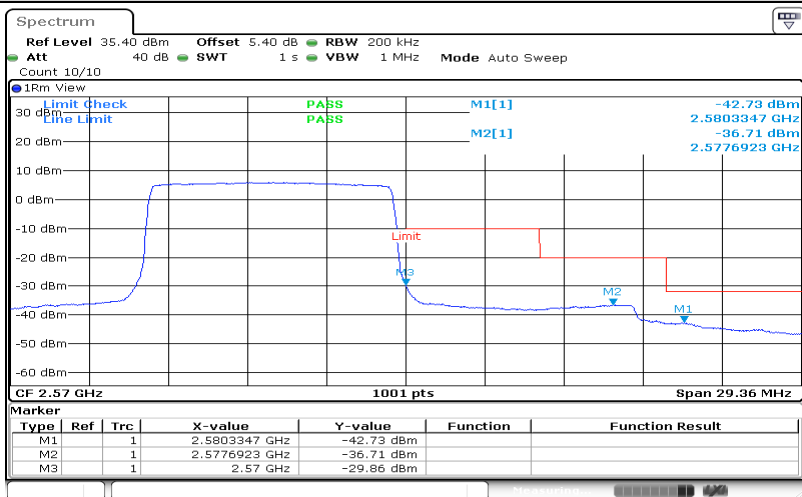


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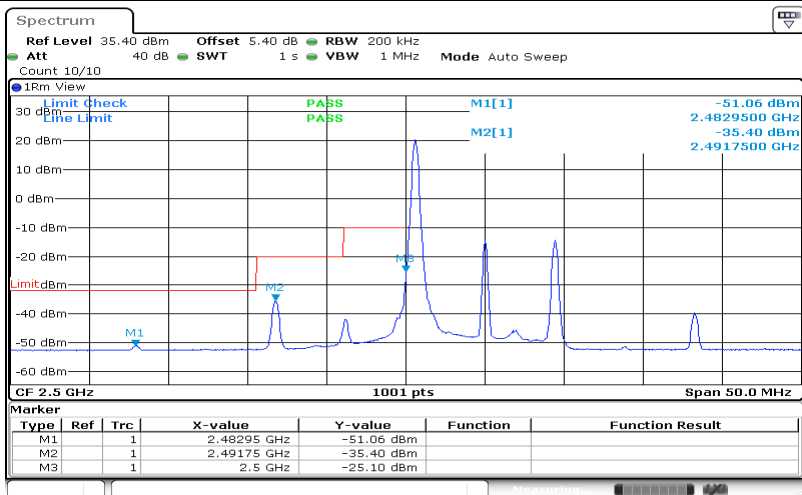


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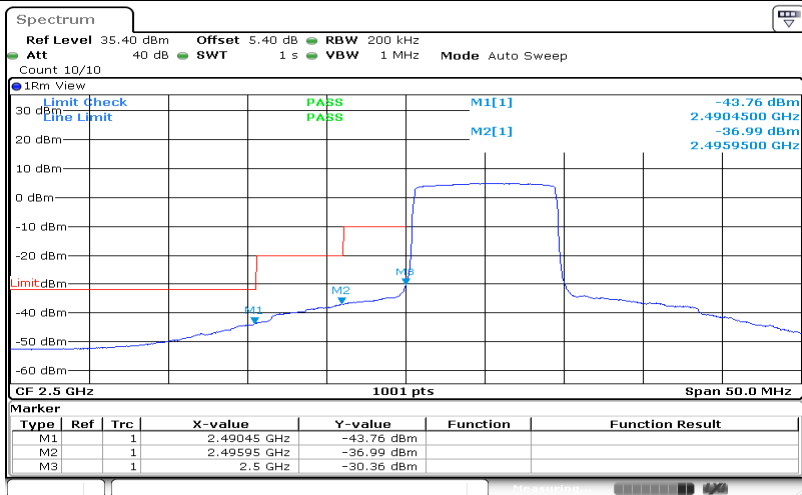
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Band7-10MHz-16QAM-20800-50RB#0



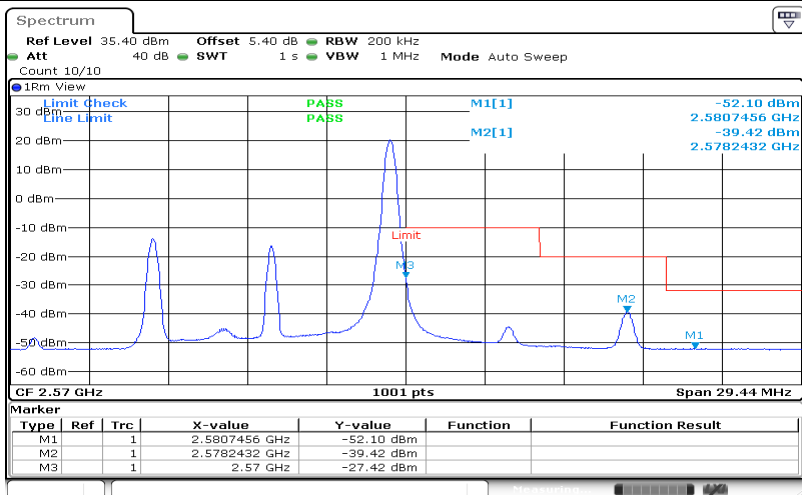
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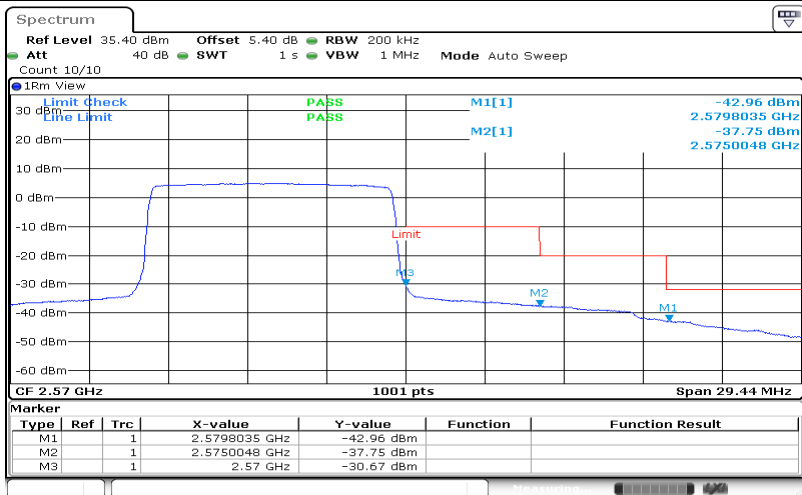


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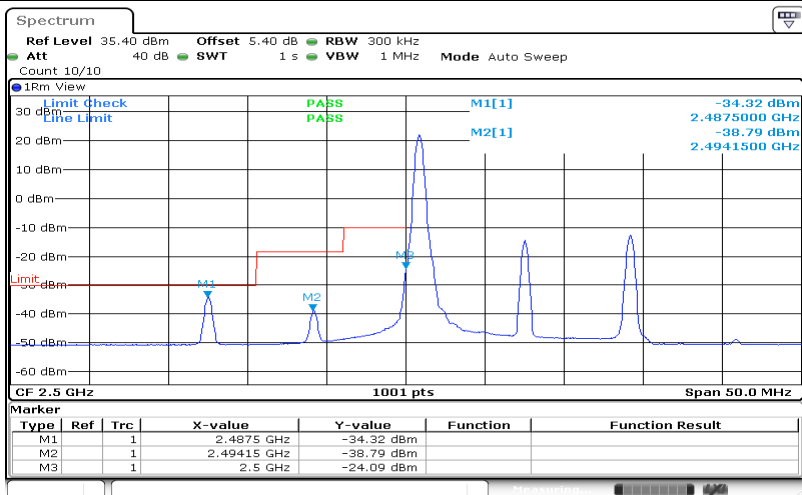


Band7-10MHz-16QAM-21400-50RB#0



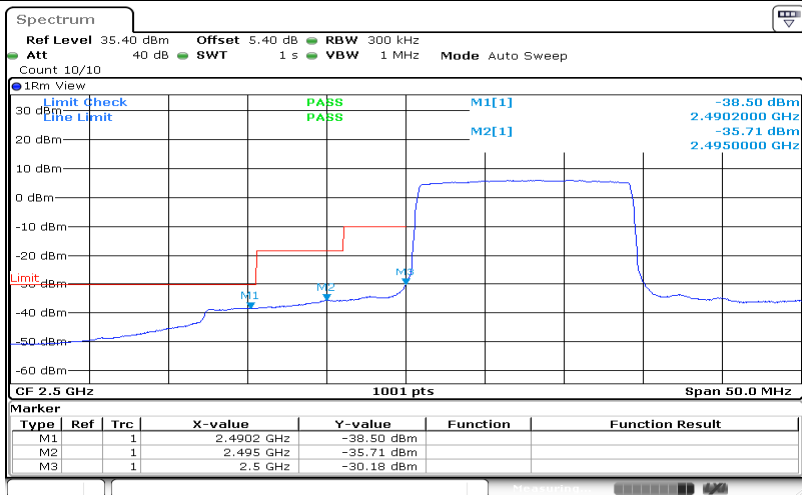
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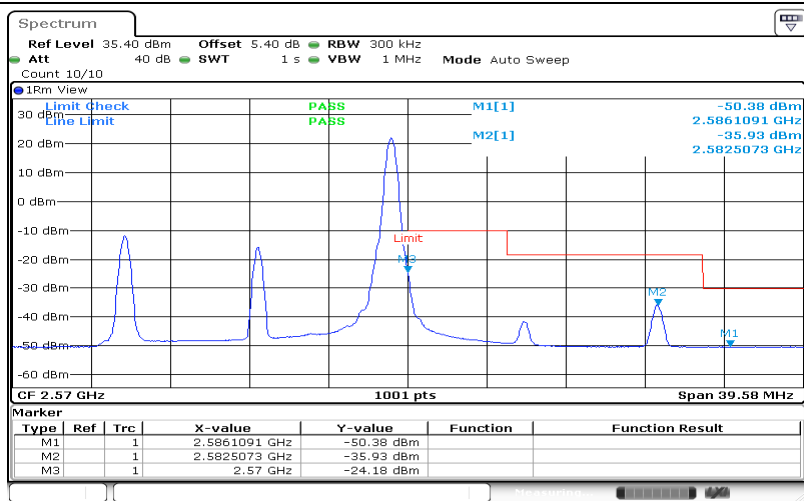
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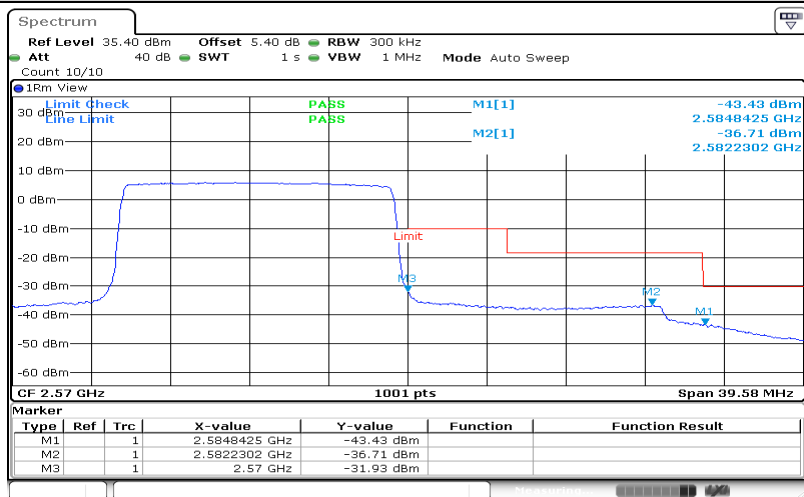
Band7-15MHz-QPSK-21375-1RB#74





Date: 2 APR 2020 07:12:39

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Band7-15MHz-16QAM-20825-1RB#0

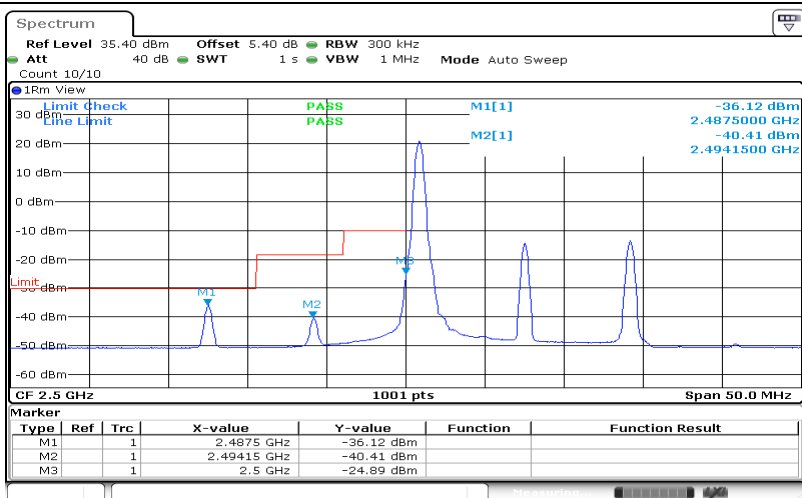


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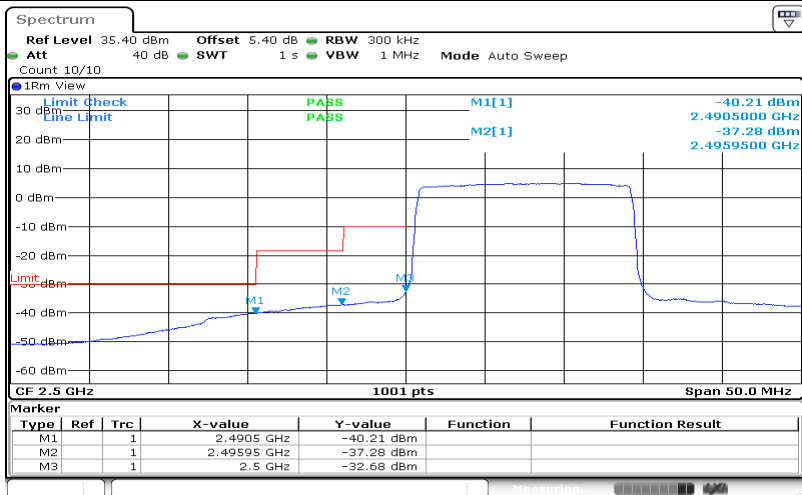
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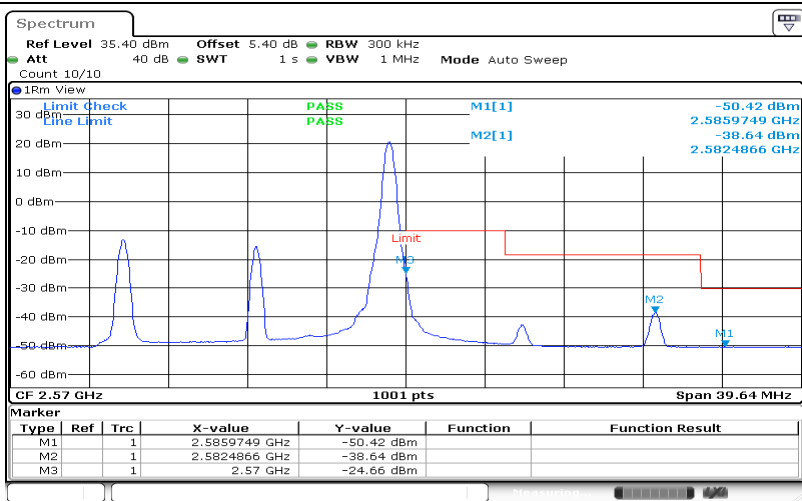
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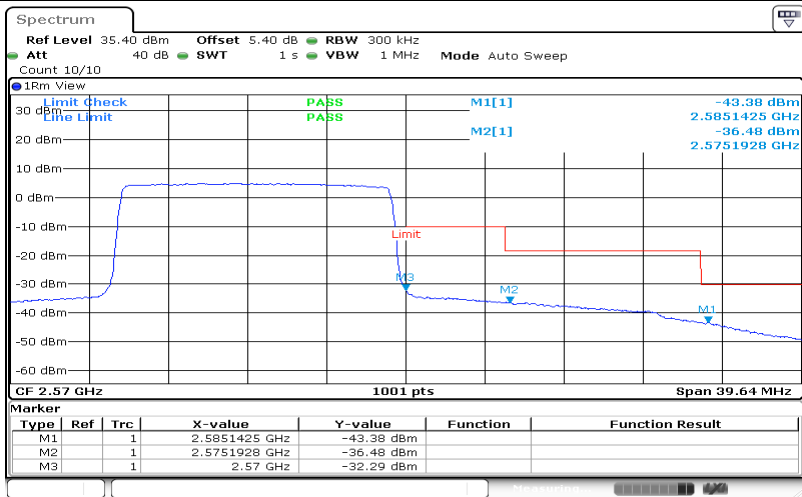
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Band7-15MHz-16QAM-21375-1RB#74



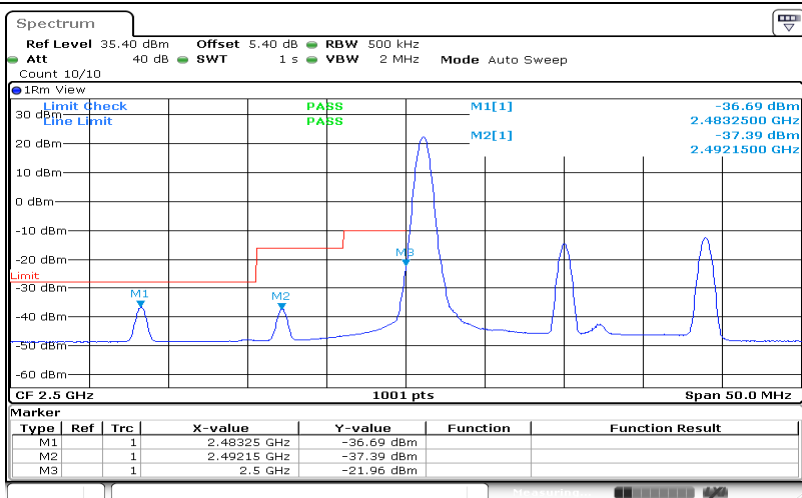


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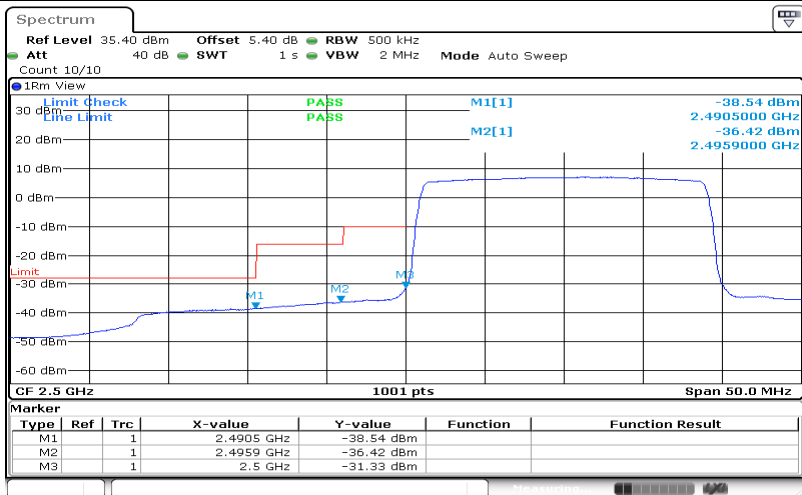


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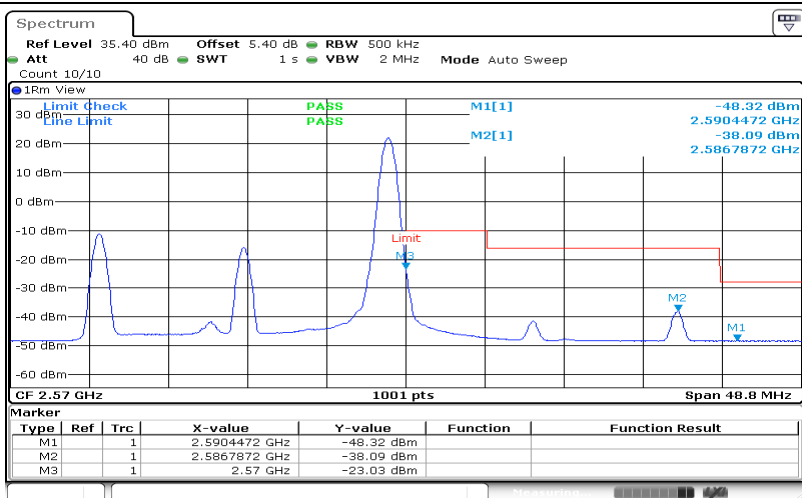


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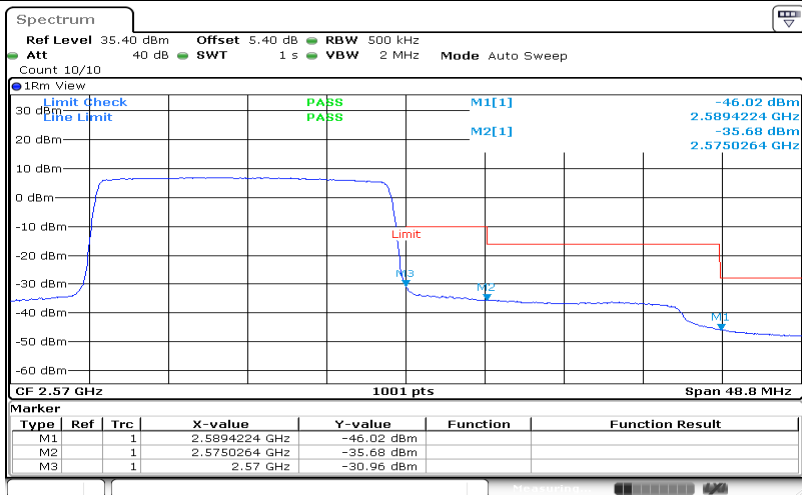


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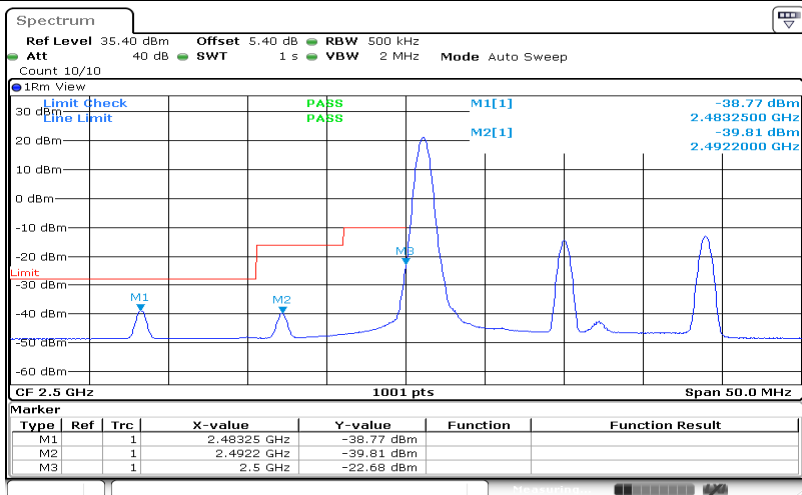


Band7-20MHz-QPSK-21350-100RB#0



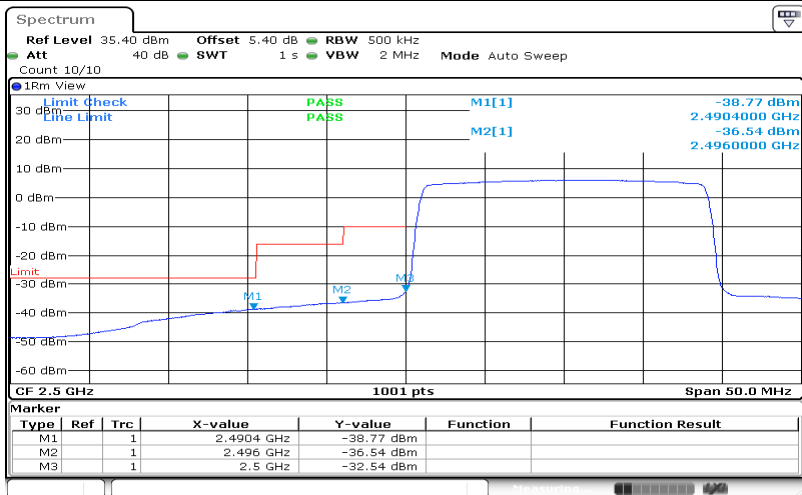
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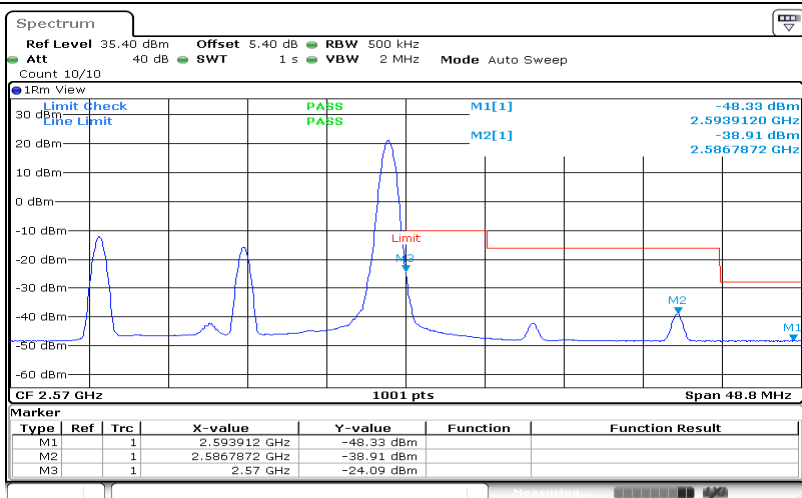
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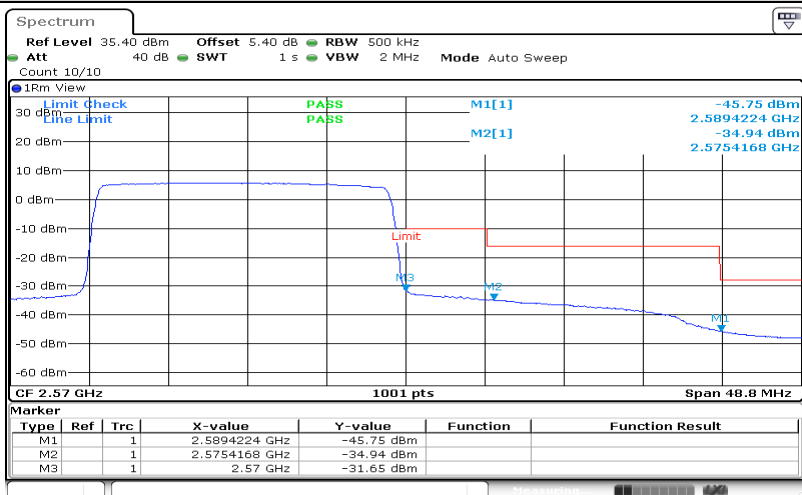
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Date: 2.APR.2020 07:15:56

Band7-20MHz-16QAM-21350-100RB#0



Date: 2.APR.2020 07:17:21



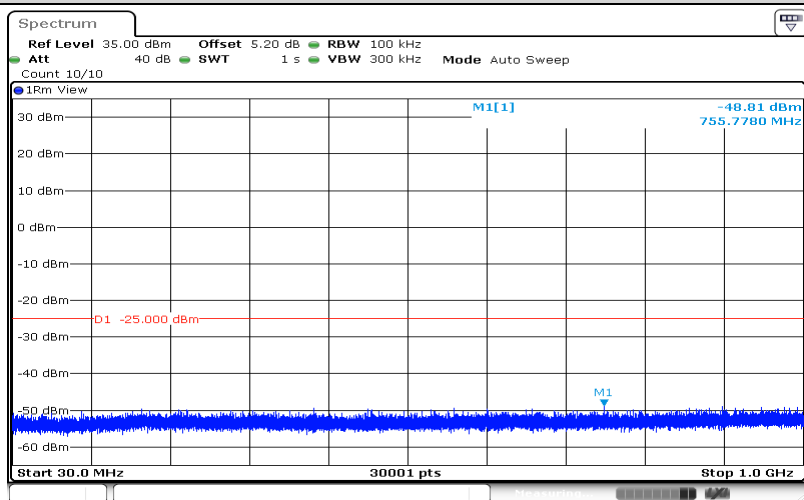
6. Spurious Emission at Antenna Terminal

Remark1: 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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

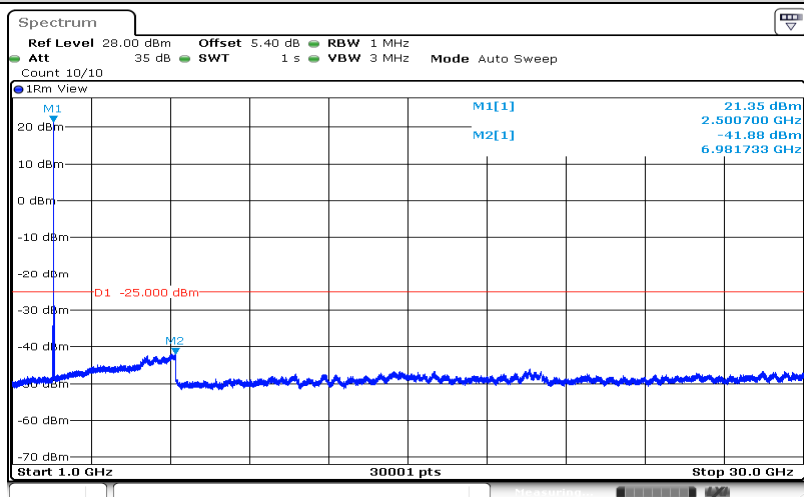
6.1. Test Plots

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



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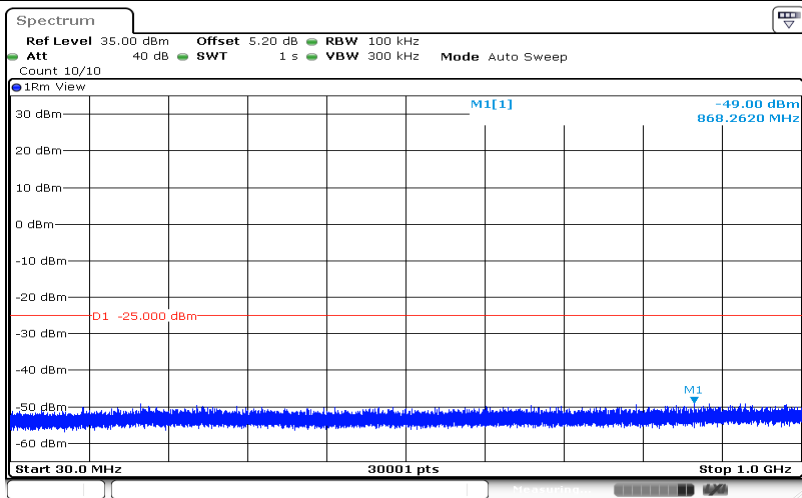
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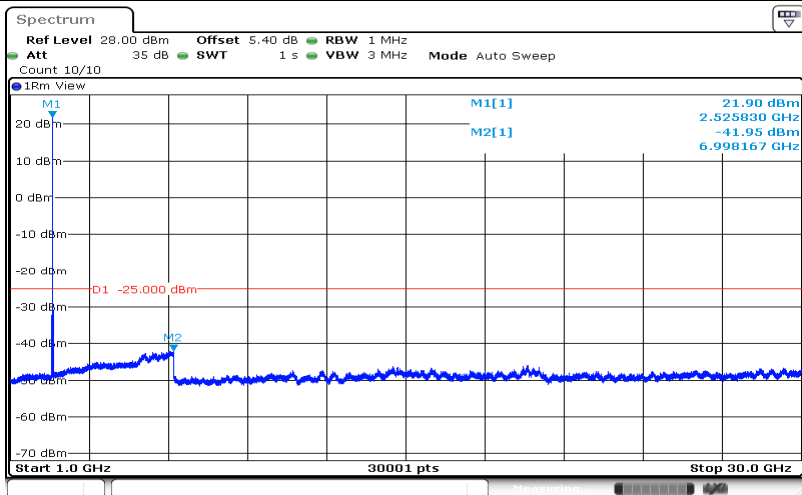
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz





Date: 2.APR.2020 07:18:55

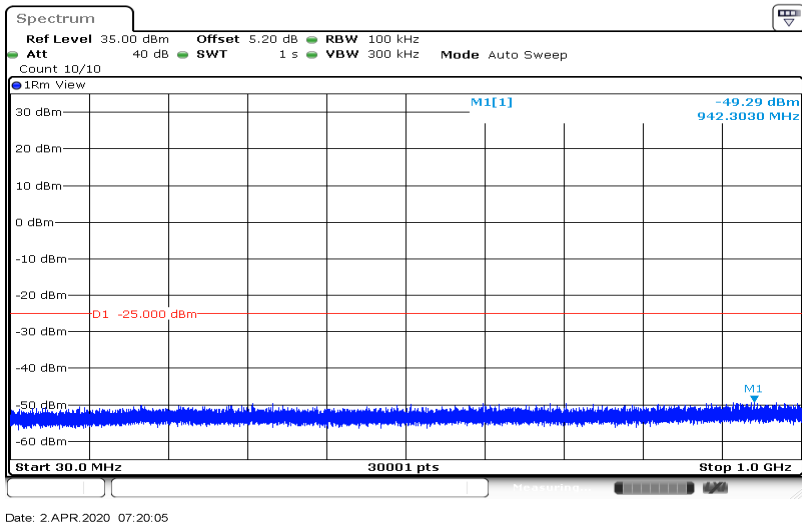
Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



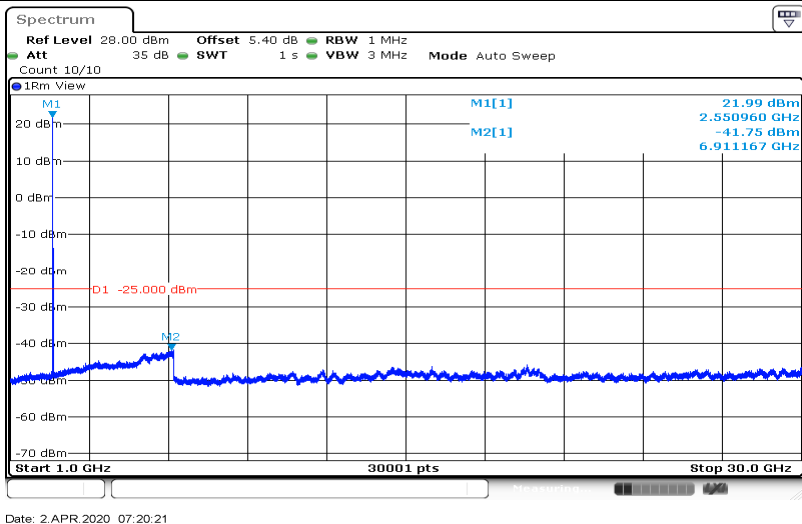
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Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



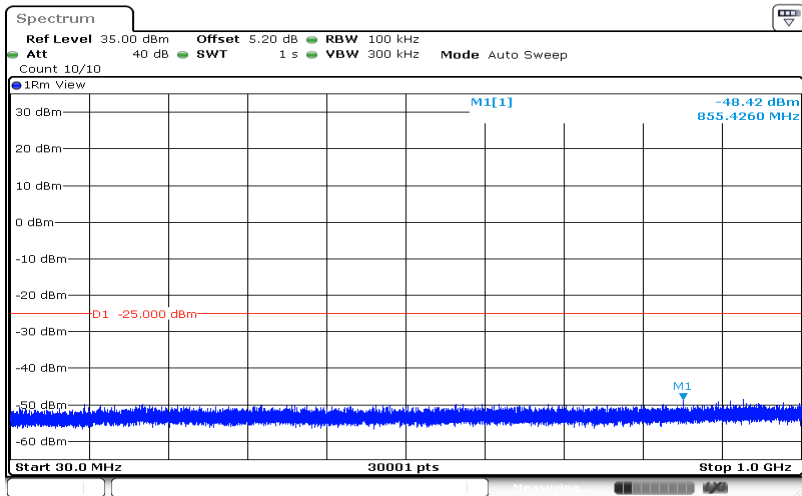


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



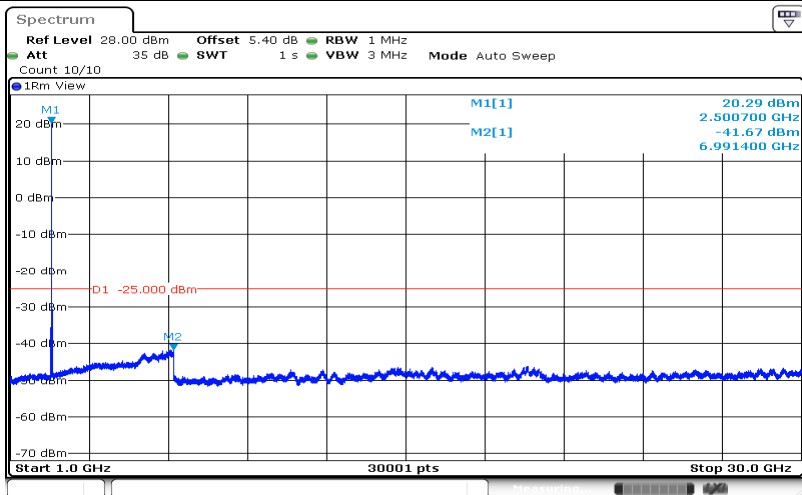
Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz





Date: 2.APR.2020 07:18:19

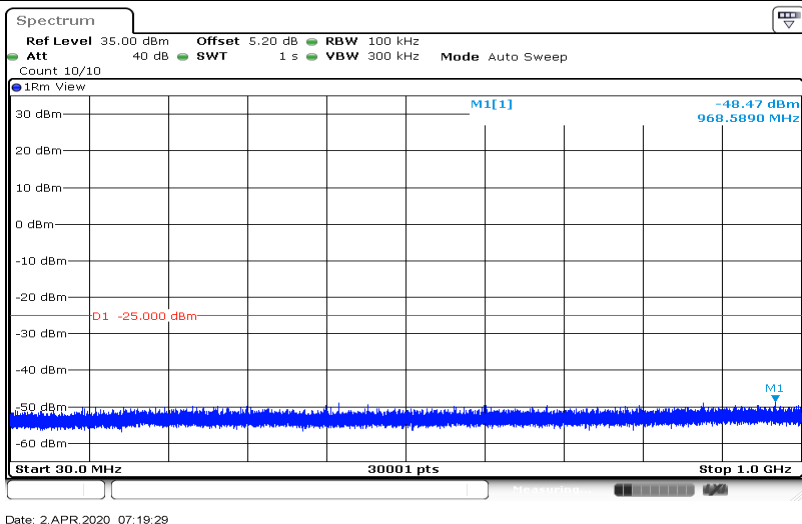
Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



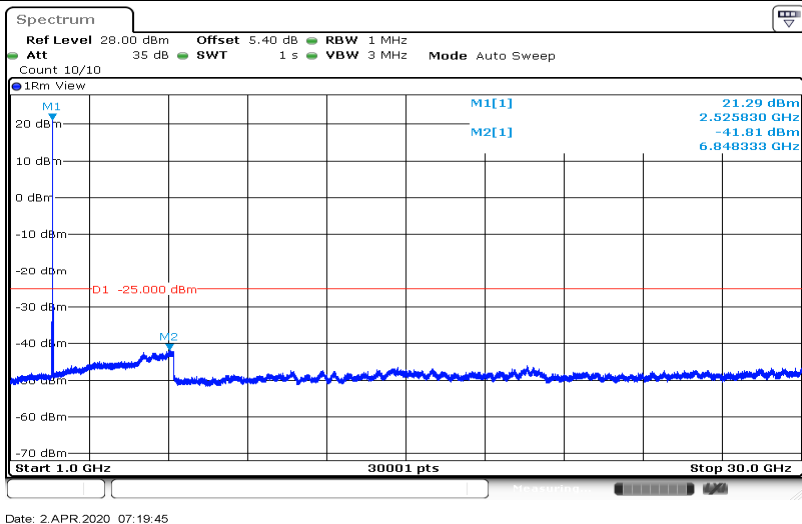
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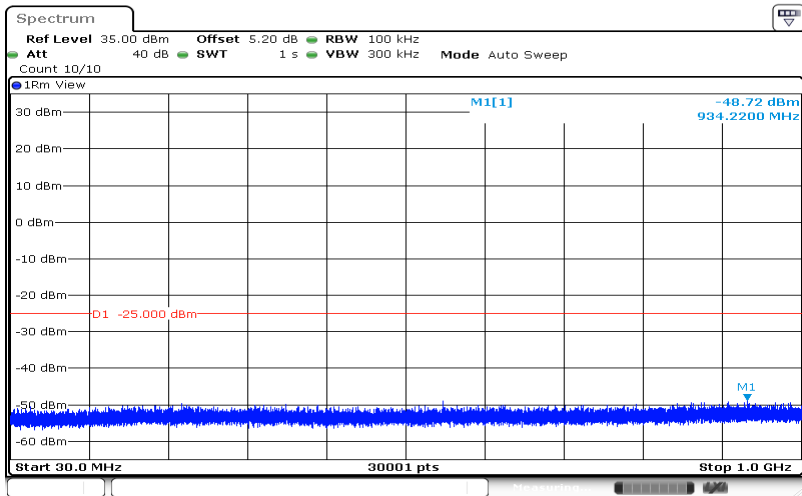


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



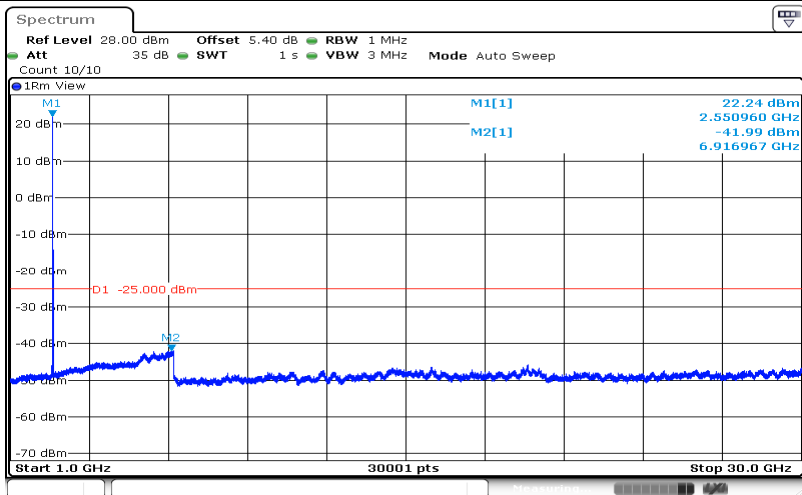
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz





Date: 2.APR.2020 07:20:40

Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



Date: 2.APR.2020 07:20:56



7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
104.3542	-65.23	-25.00	40.23	Vertical
1730.5461	-44.94	-25.00	19.94	Vertical
5002.2801	-44.20	-25.00	19.20	Vertical
7503.1801	-52.97	-25.00	27.97	Vertical
14500.0600	-48.26	-25.00	23.26	Vertical
17999.4000	-40.51	-25.00	15.51	Vertical
40.9130	-65.30	-25.00	40.30	Horizontal
590.9790	-64.94	-25.00	39.94	Horizontal
1595.3191	-45.72	-25.00	20.72	Horizontal
5002.2801	-51.12	-25.00	26.12	Horizontal
10004.0802	-50.91	-25.00	25.91	Horizontal
16388.3355	-44.65	-25.00	19.65	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.5979	-67.96	-25.00	42.96	Vertical
494.5562	-67.48	-25.00	42.48	Vertical
5052.0821	-45.05	-25.00	20.05	Vertical
7578.1831	-52.87	-25.00	27.87	Vertical
12630.3852	-47.64	-25.00	22.64	Vertical
17997.5999	-41.05	-25.00	16.05	Vertical
41.3981	-64.53	-25.00	39.53	Horizontal
513.5207	-66.59	-25.00	41.59	Horizontal
1808.1616	-44.22	-25.00	19.22	Horizontal
5052.0821	-50.65	-25.00	25.65	Horizontal
12630.9852	-50.69	-25.00	25.69	Horizontal
16395.5358	-44.83	-25.00	19.83	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.9188	-67.74	-25.00	42.74	Vertical
107.7494	-65.98	-25.00	40.98	Vertical
1695.3391	-45.29	-25.00	20.29	Vertical
5101.8841	-46.98	-25.00	21.98	Vertical
12755.7902	-46.23	-25.00	21.23	Vertical
17999.4000	-40.54	-25.00	15.54	Vertical
46.1513	-64.40	-25.00	39.40	Horizontal
540.0515	-65.68	-25.00	40.68	Horizontal
1803.3607	-44.23	-25.00	19.23	Horizontal
5102.4841	-54.09	-25.00	29.09	Horizontal
11989.5596	-52.32	-25.00	27.32	Horizontal
16400.9360	-44.51	-25.00	19.51	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 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 Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	4.50	0.001793	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	2.50	0.000996	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	3.70	0.001474	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.10	-0.000434	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-0.80	-0.000313	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	1.20	0.000478	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.10	0.000438	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	1.80	0.000717	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-4.40	-0.001736	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-3.00	-0.001172	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-3.20	-0.001250	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-7.50	-0.002930	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	3.30	0.001315	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	4.10	0.001633	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	1.60	0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-0.20	-0.000080	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	5.30	0.002112	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.40	0.001355	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	4.70	0.001873	±2.5	PASS



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Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.00	0.000398	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-4.00	-0.001578	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-7.00	-0.002761	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-0.20	-0.000079	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-1.20	-0.000473	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-2.50	-0.000977	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	2.20	0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-1.20	-0.000469	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-1.80	-0.000703	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-0.20	-0.000078	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	0.70	0.000279	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	4.70	0.001873	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	0.50	0.000199	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	4.20	0.001673	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	4.30	0.001713	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	1.30	0.000518	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	3.70	0.001474	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-2.60	-0.001026	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-3.50	-0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-0.80	-0.000316	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-3.00	-0.001183	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-6.60	-0.002604	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-0.40	-0.000158	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-2.60	-0.001016	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	0.90	0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-1.80	-0.000703	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	0.20	0.000078	±2.5	PASS

