



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]



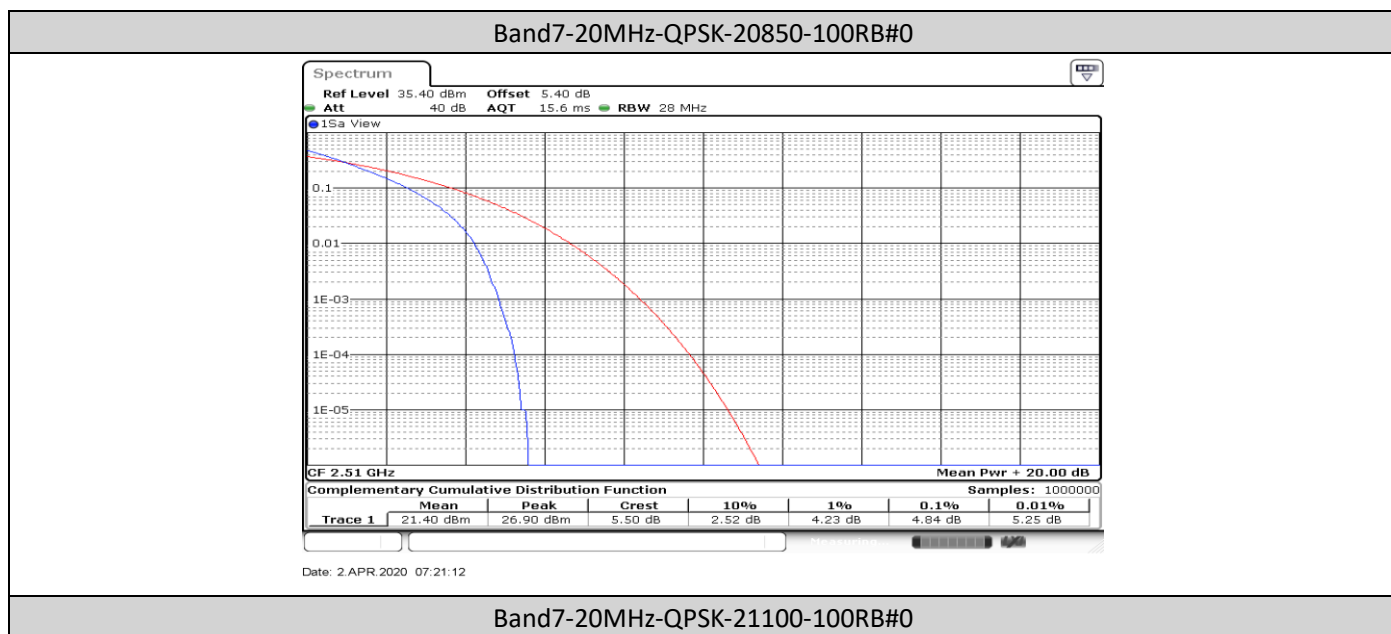


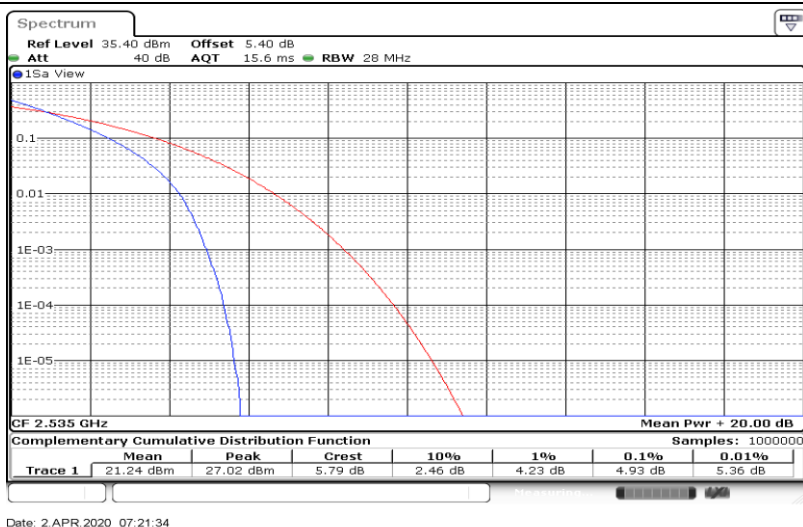
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

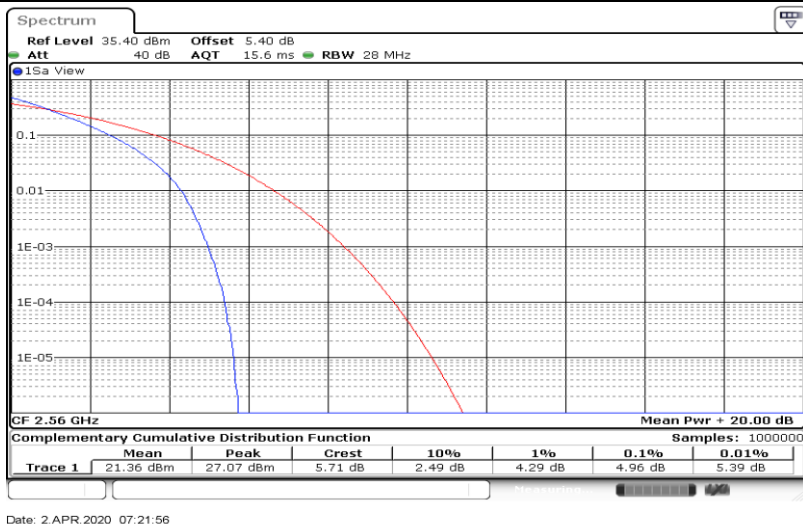
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.84	13.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.93	13.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.96	13.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.68	13.00	PASS
Band7	20MHz	16QAM	21100	100RB#0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

2.2. Test Plots



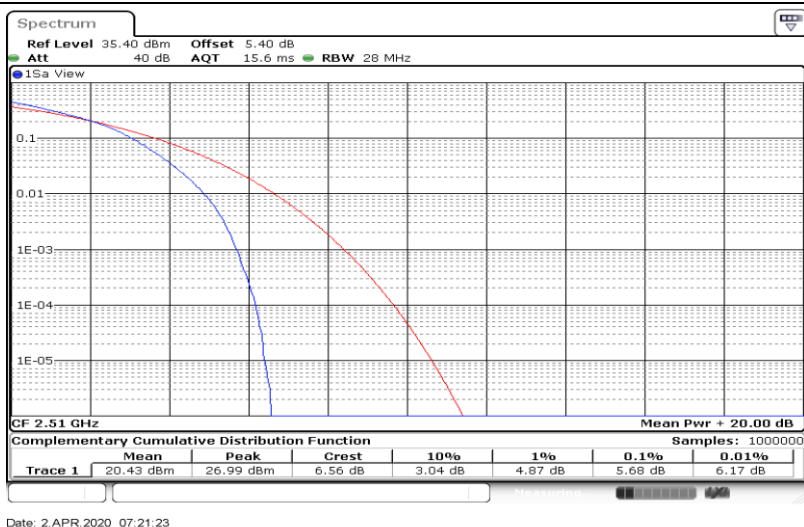


Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



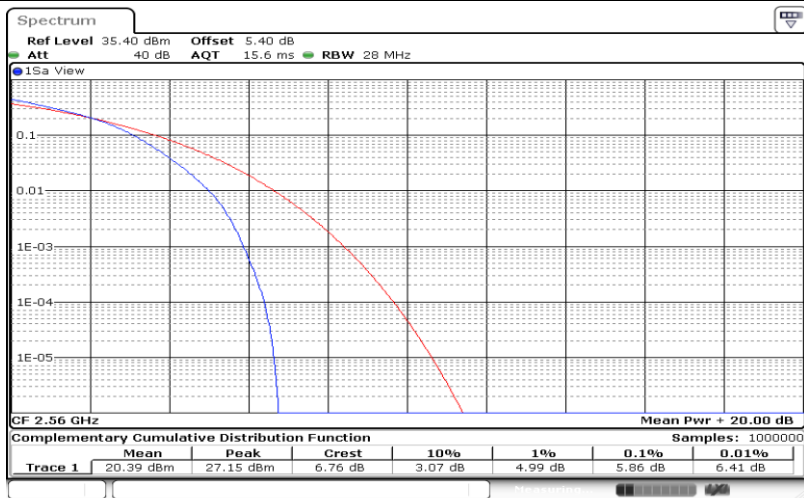


Band7-20MHz-16QAM-21100-100RB#0



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





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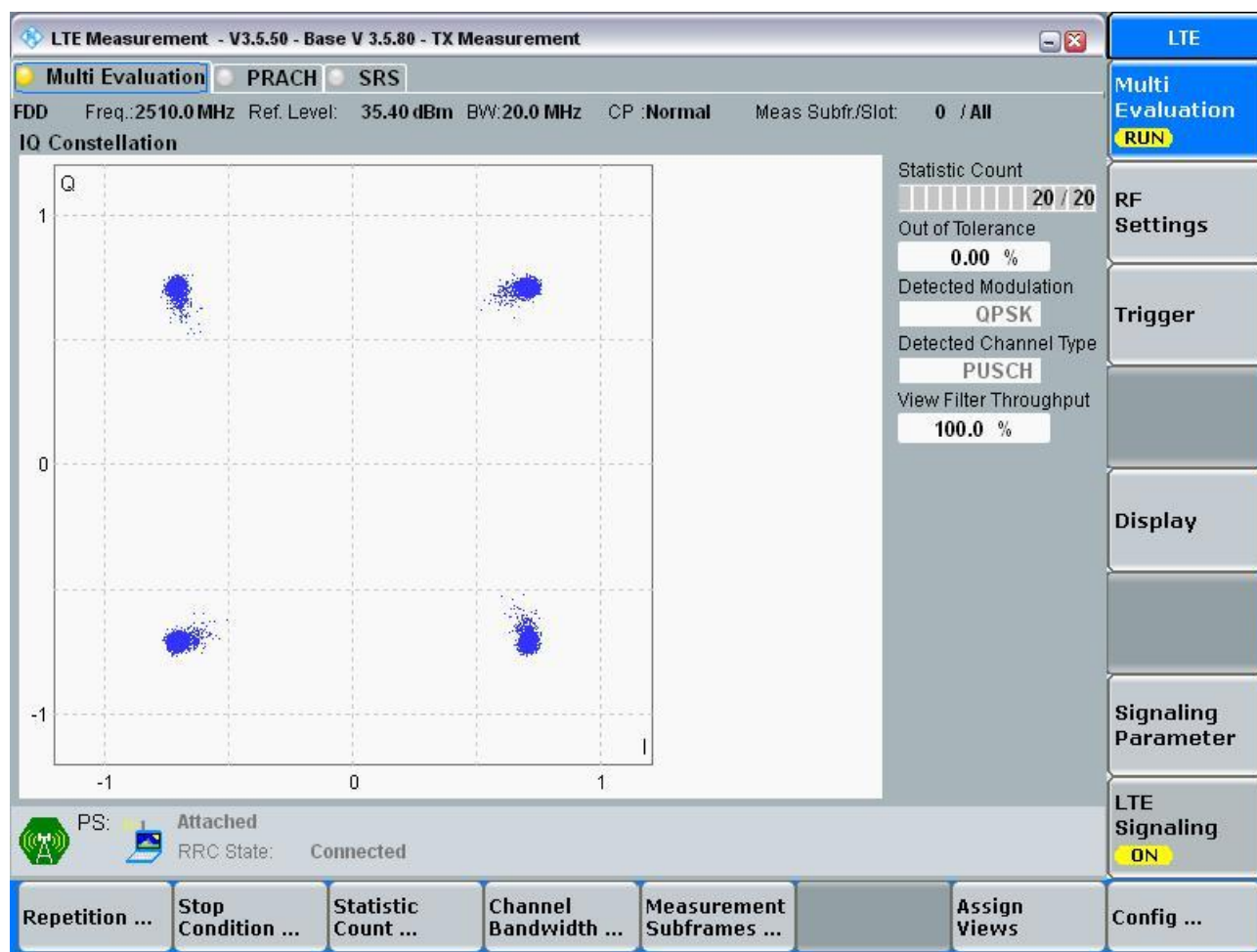
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



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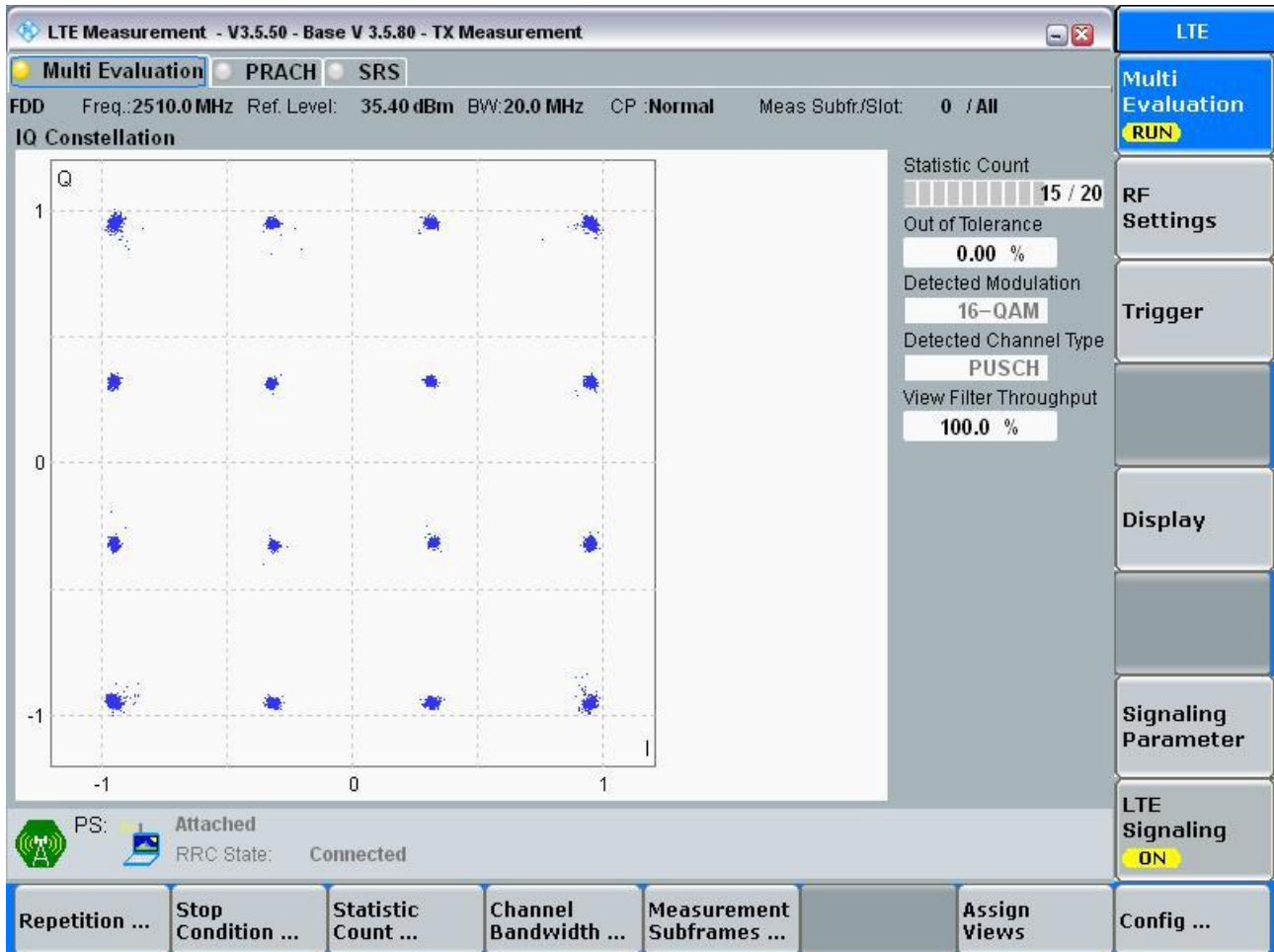
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3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

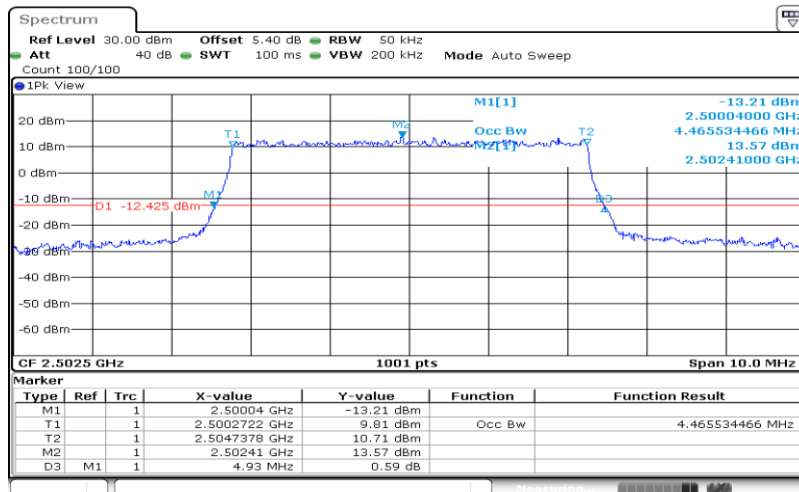
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.920	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.930	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.960	PASS
Band7	5MHz	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





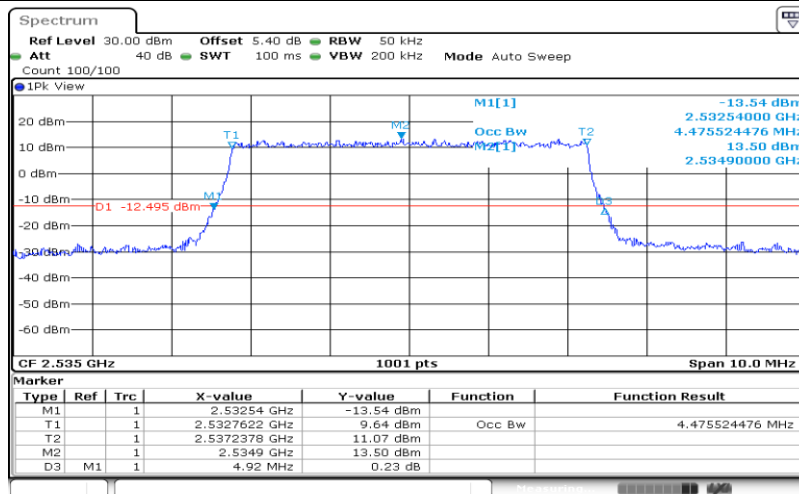
4.2. Test Plots

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



Date: 2 APR 2020 06:59:57

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



Date: 2 APR 2020 07:00:37

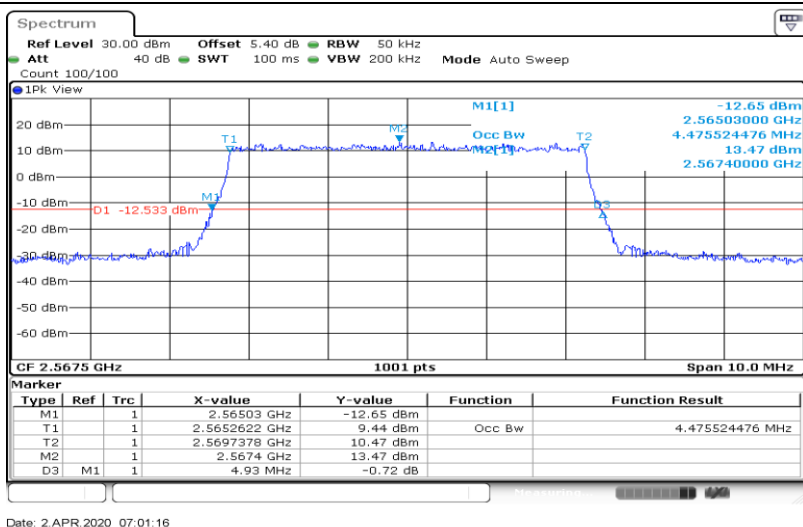
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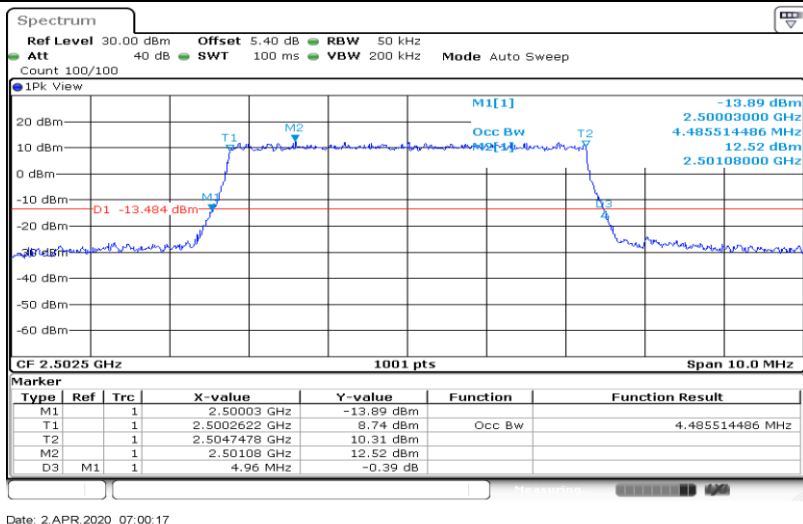
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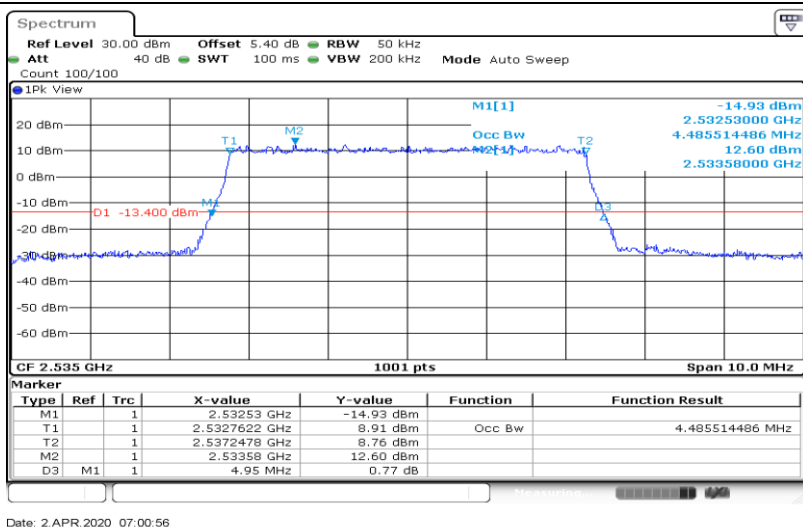


Band7-5MHz-16QAM-20775-25RB#0-4.486

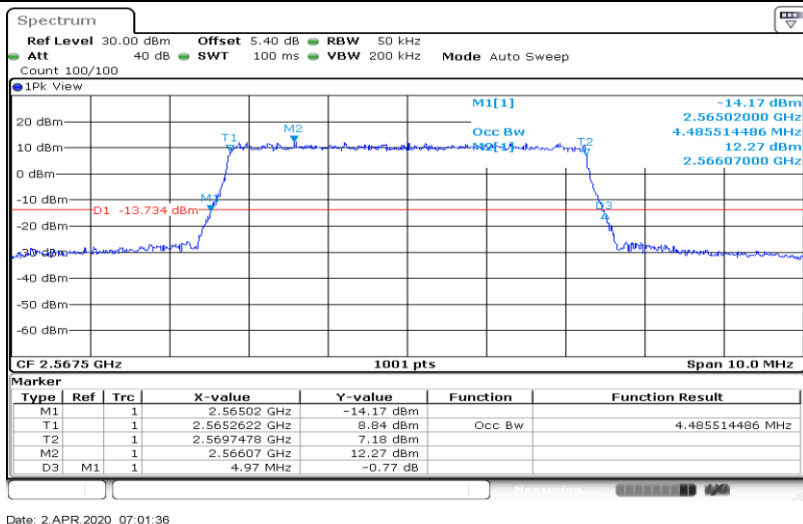


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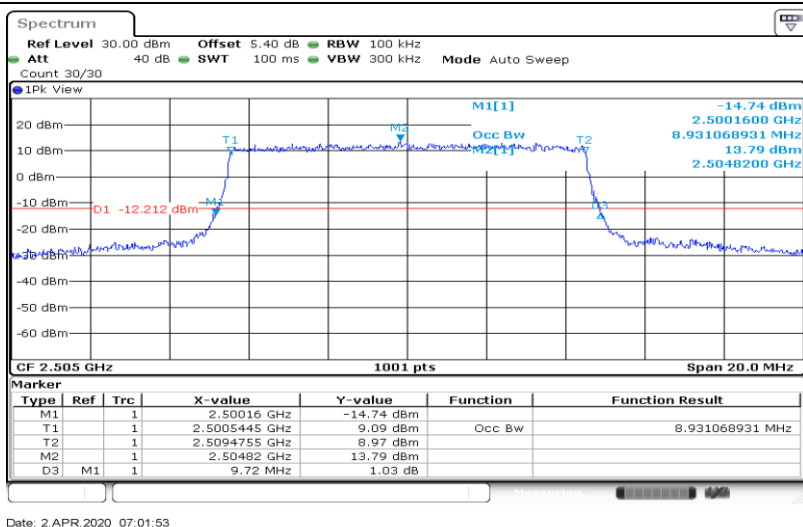


Band7-5MHz-16QAM-21425-25RB#0-4.486

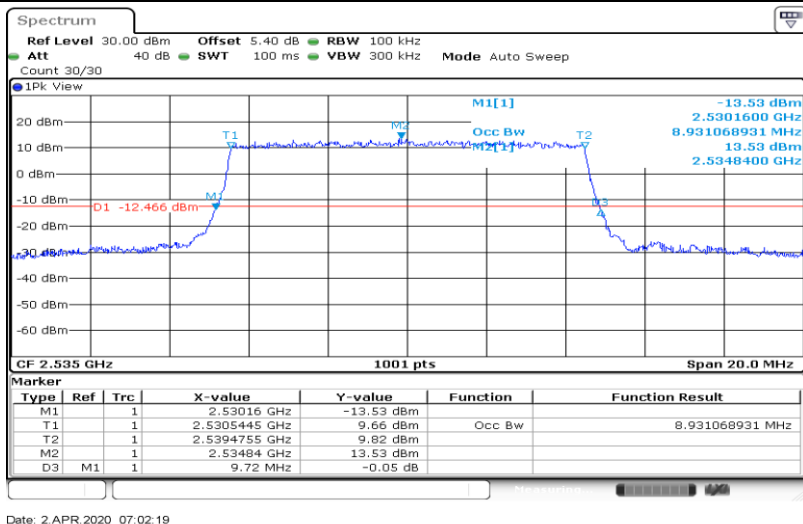


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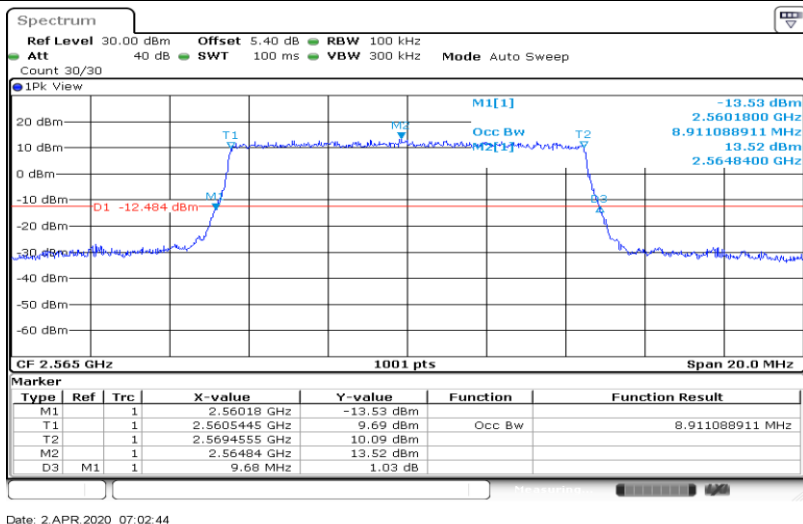




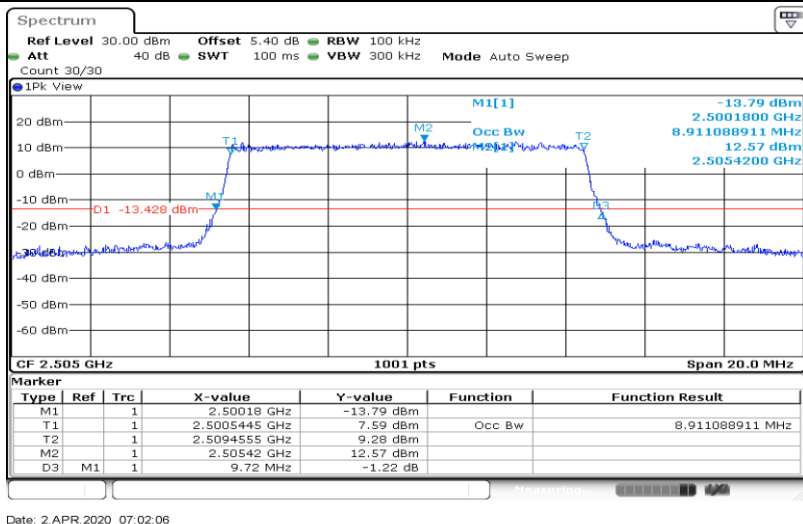
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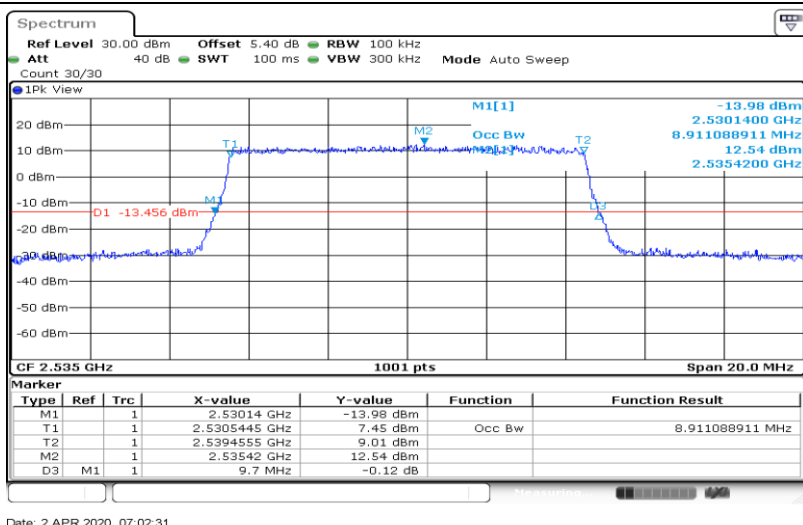
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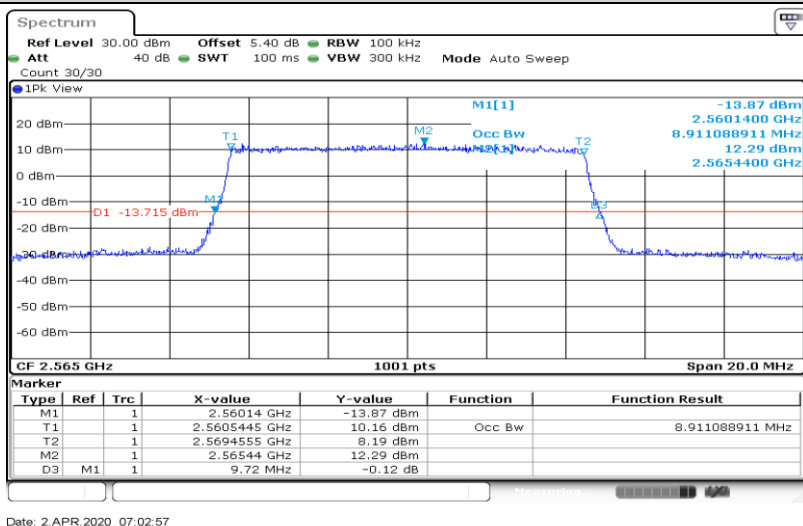
Band7-10MHz-16QAM-20800-50RB#0-8.911



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



Band7-10MHz-16QAM-21400-50RB#0-8.911



Band7-15MHz-QPSK-20825-75RB#0-13.427



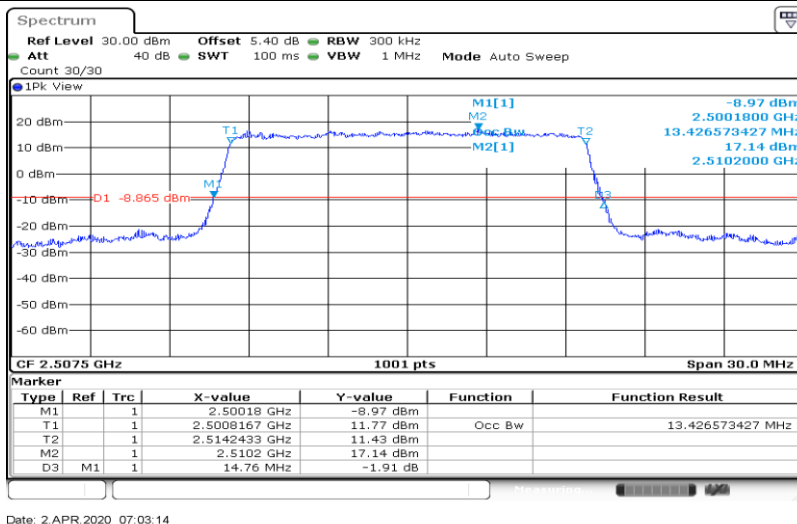
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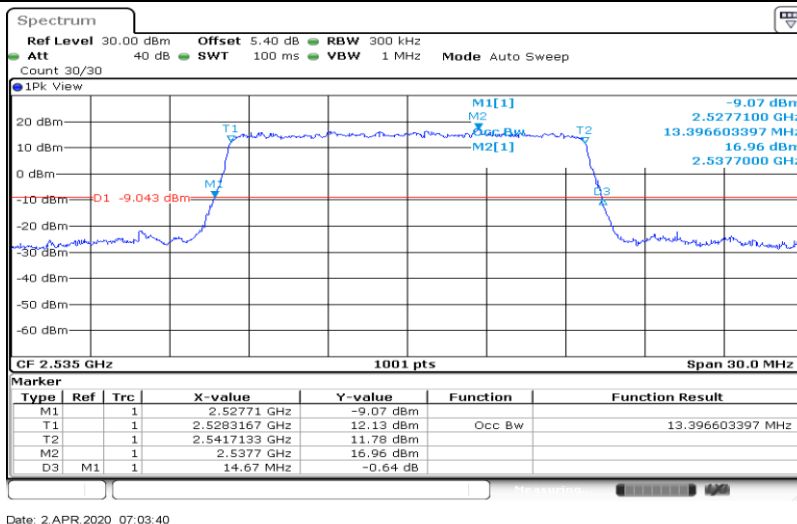
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Band7-15MHz-QPSK-21100-75RB#0-13.397

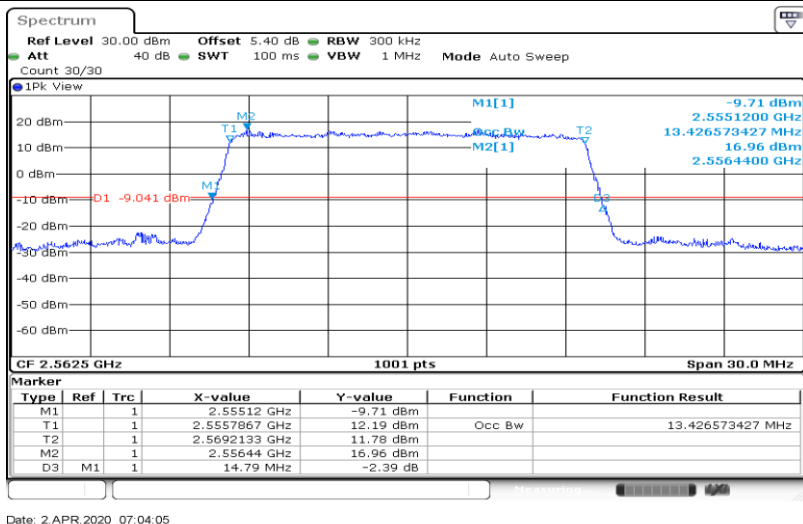


Band7-15MHz-QPSK-21375-75RB#0-13.427

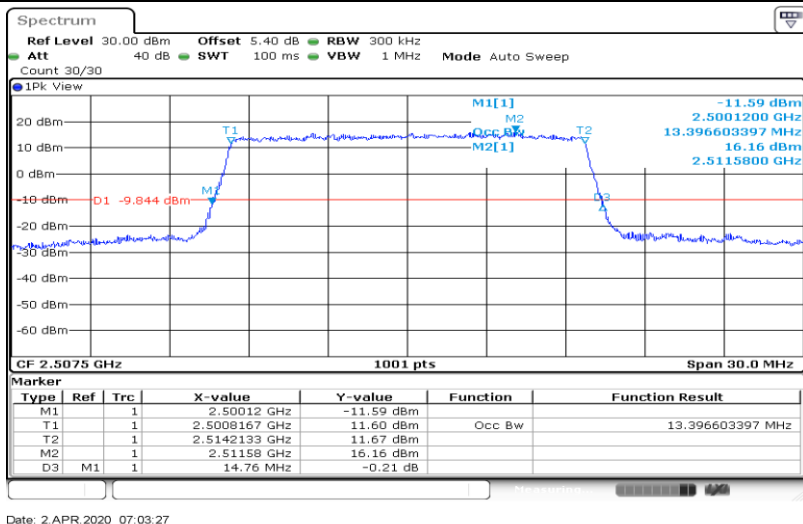


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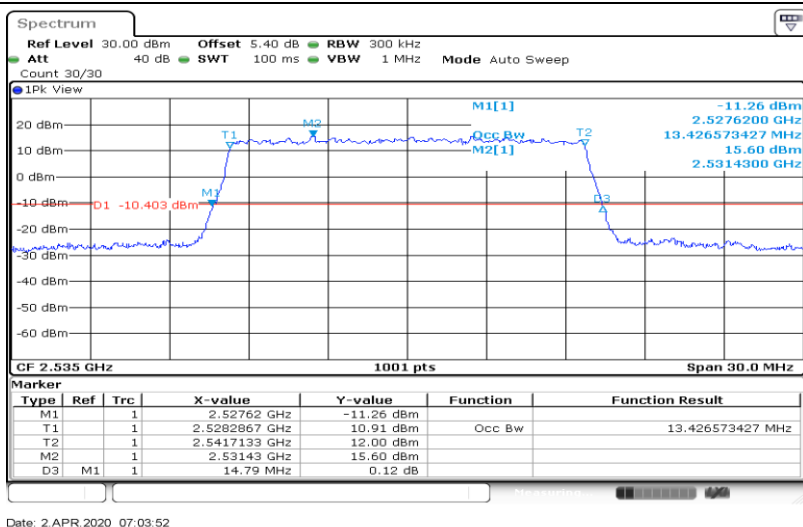


Band7-15MHz-16QAM-20825-75RB#0-13.397

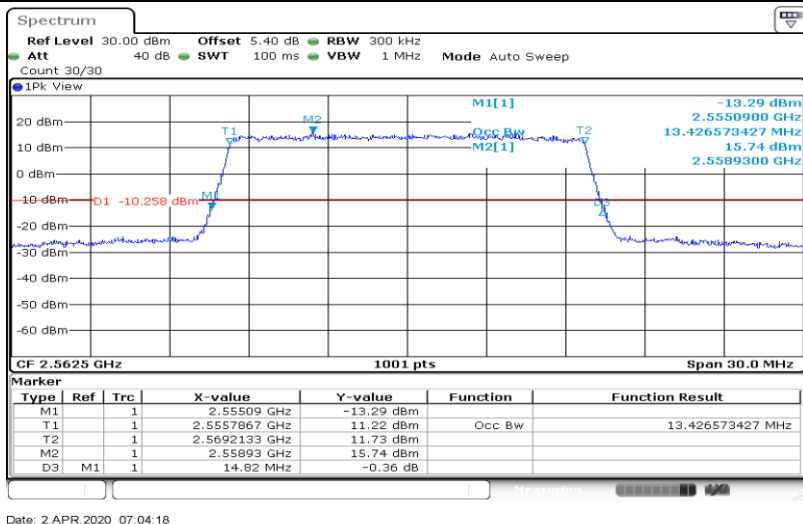


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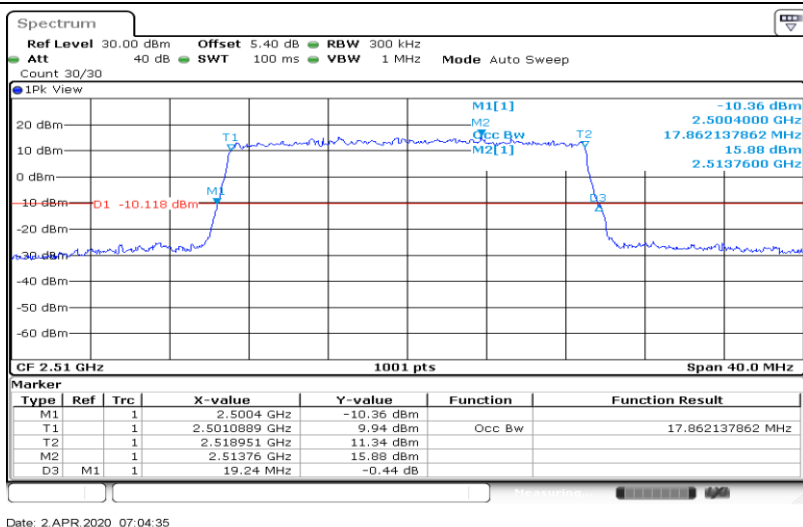


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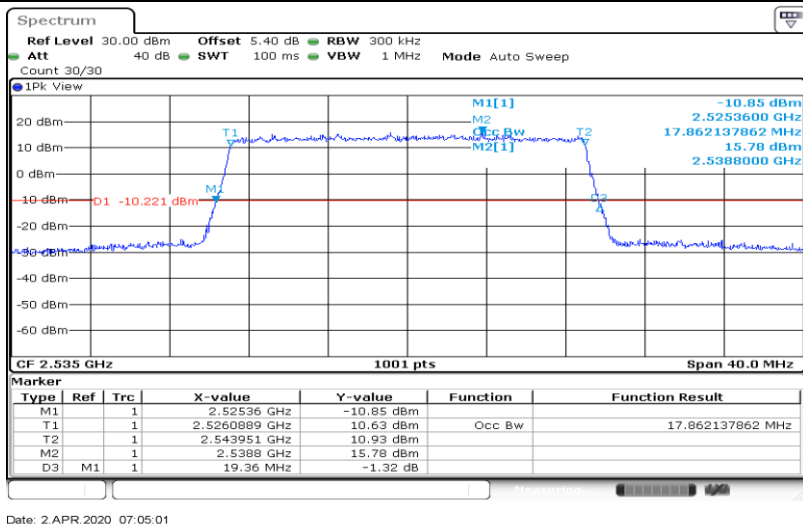


Band7-20MHz-QPSK-20850-100RB#0-17.862



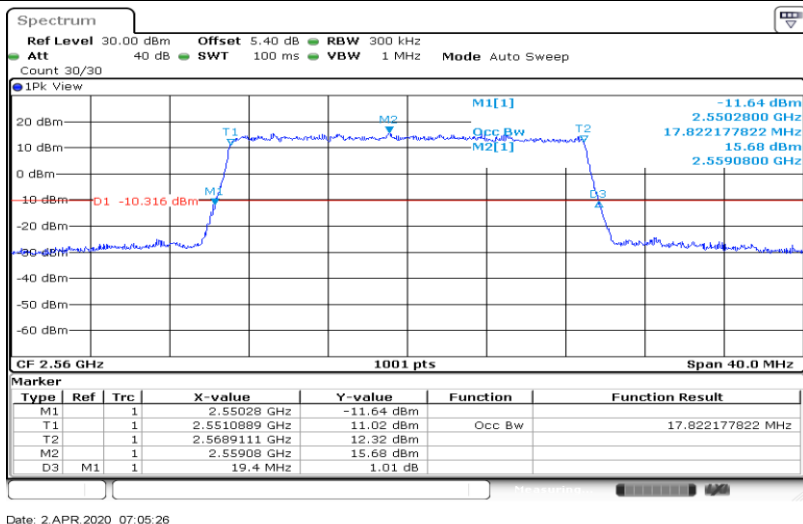


Band7-20MHz-QPSK-21100-100RB#0-17.862

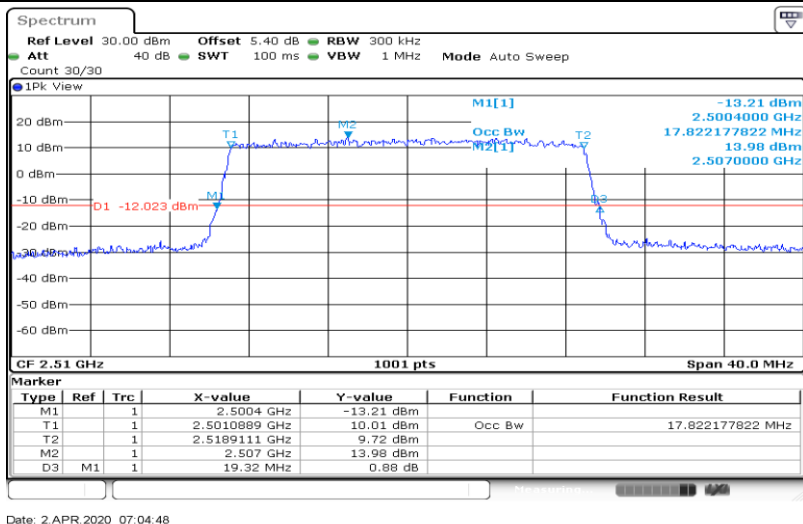


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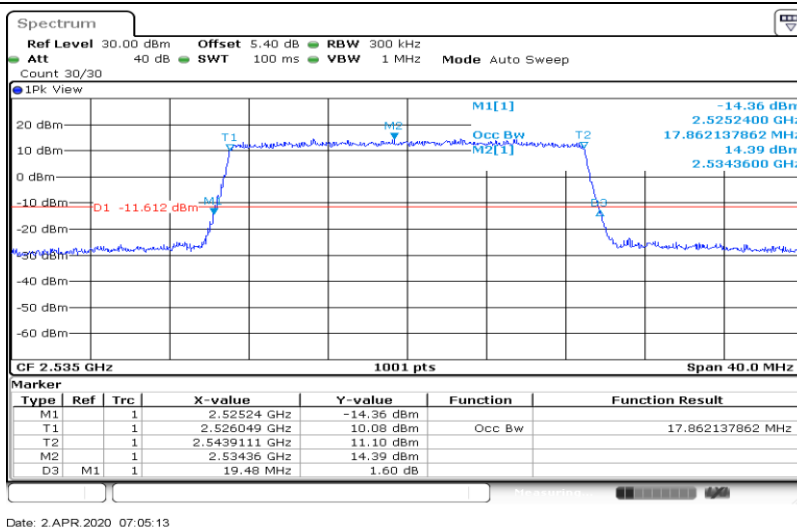


Band7-20MHz-16QAM-20850-100RB#0-17.822

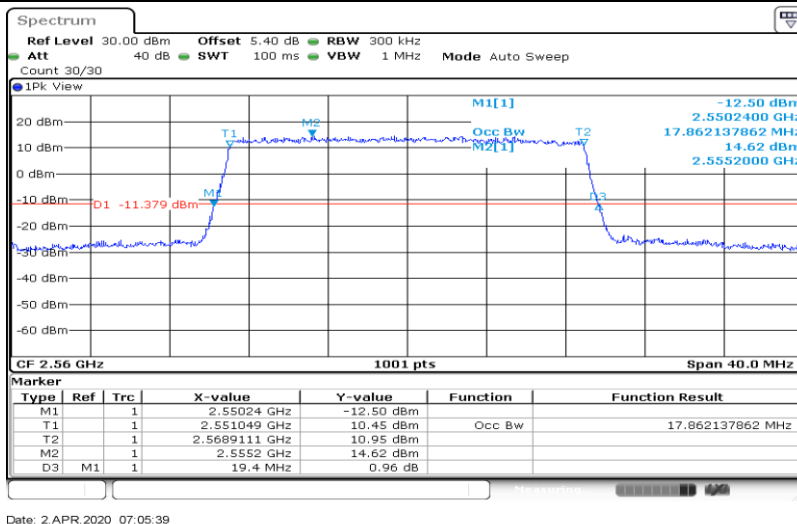


Band7-20MHz-16QAM-21100-100RB#0-17.862





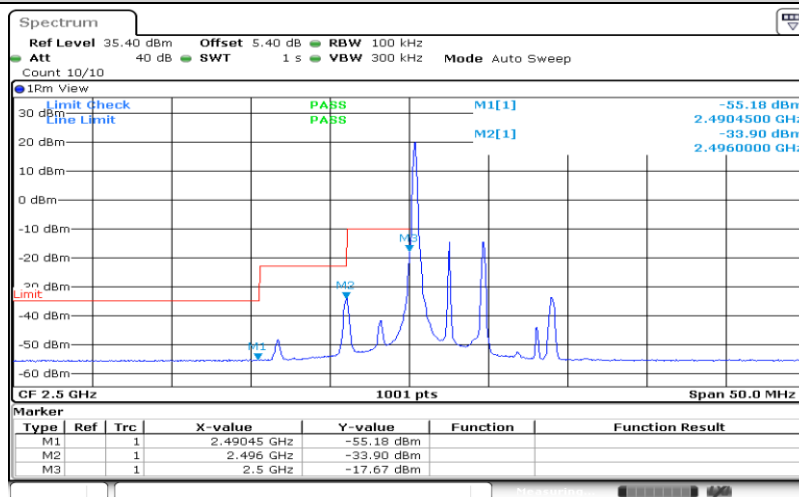
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5. Band Edge Compliance

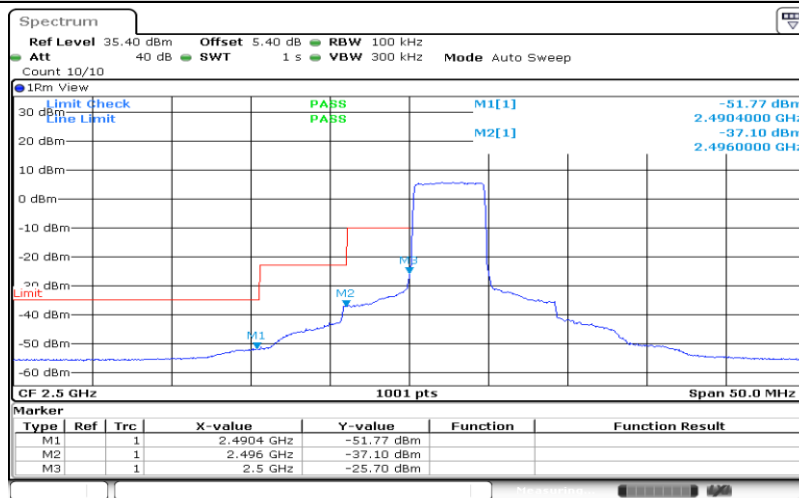
5.1. Test Plots

Band7-5MHz-QPSK-20775-1RB#0



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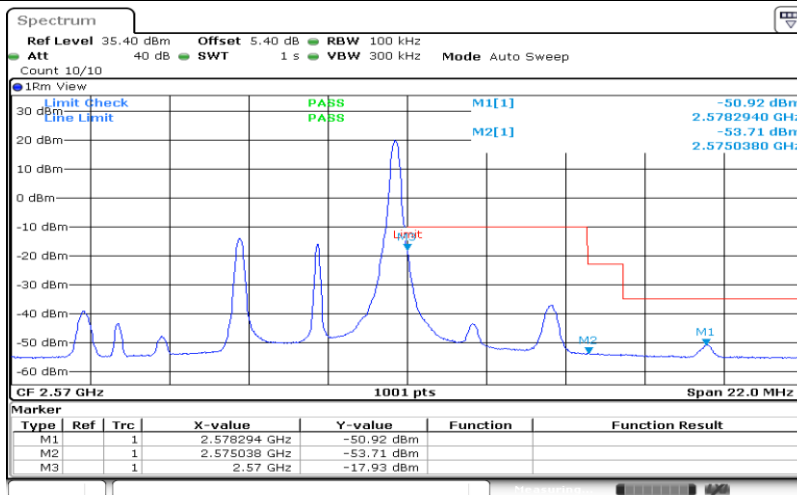
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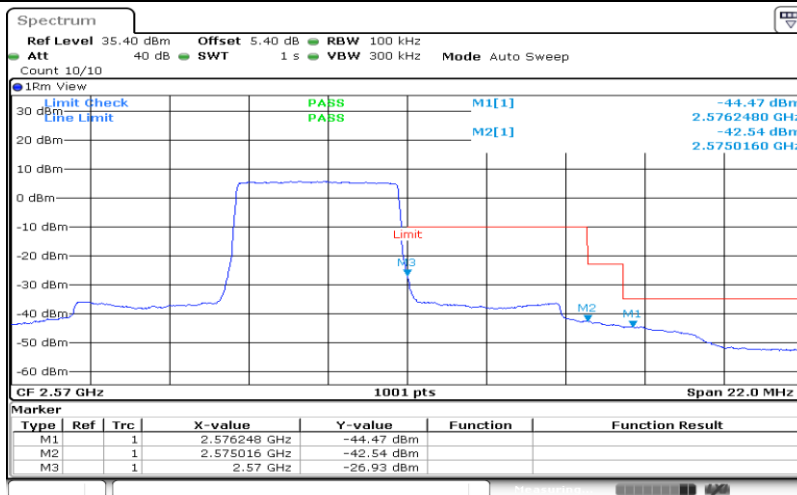
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Date: 2 APR 2020 07:08:14

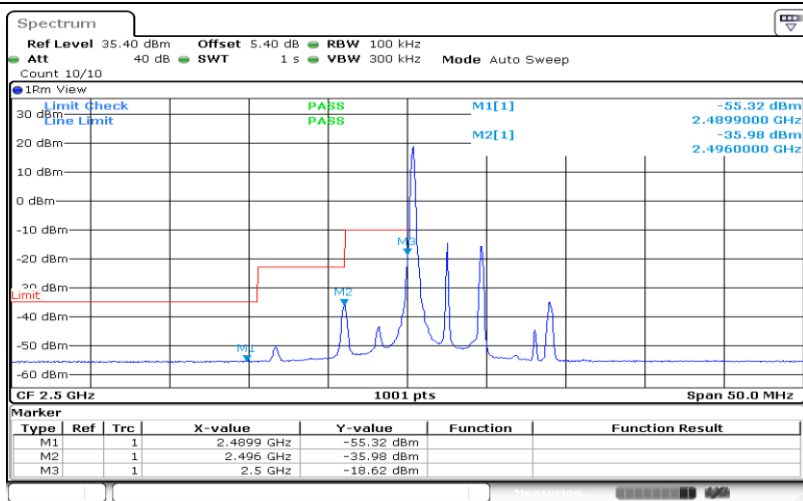
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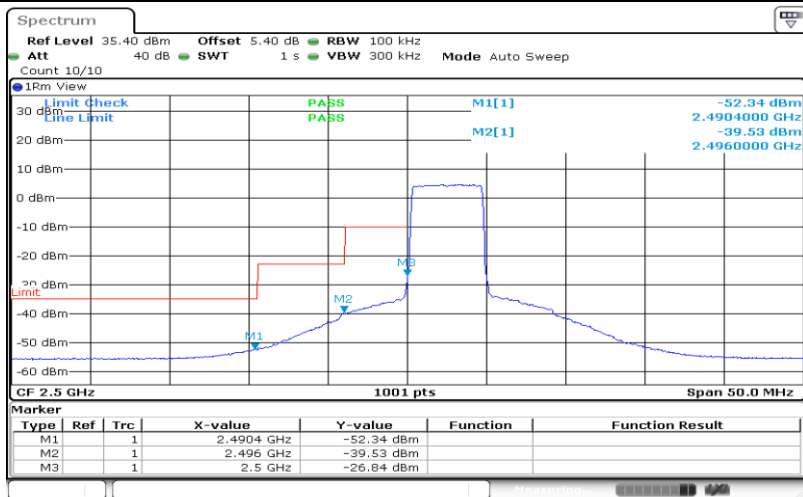
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Date: 2 APR 2020 07:06:24

Band7-5MHz-16QAM-20775-25RB#0



Date: 2 APR 2020 07:07:54

Band7-5MHz-16QAM-21425-1RB#24

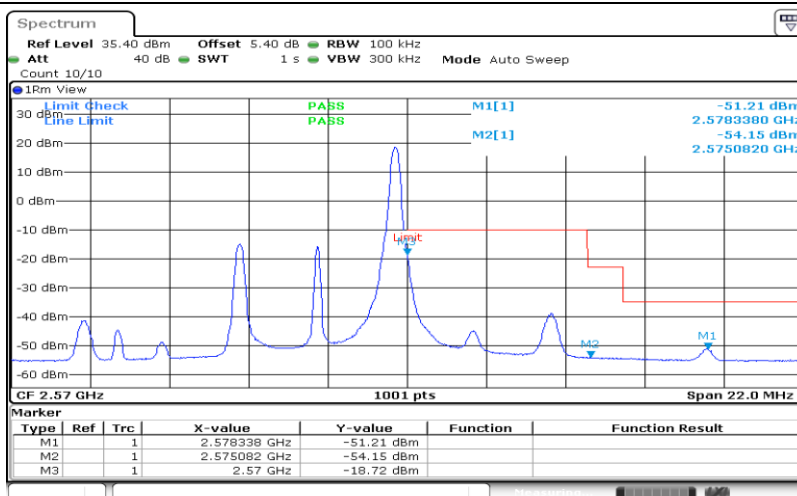


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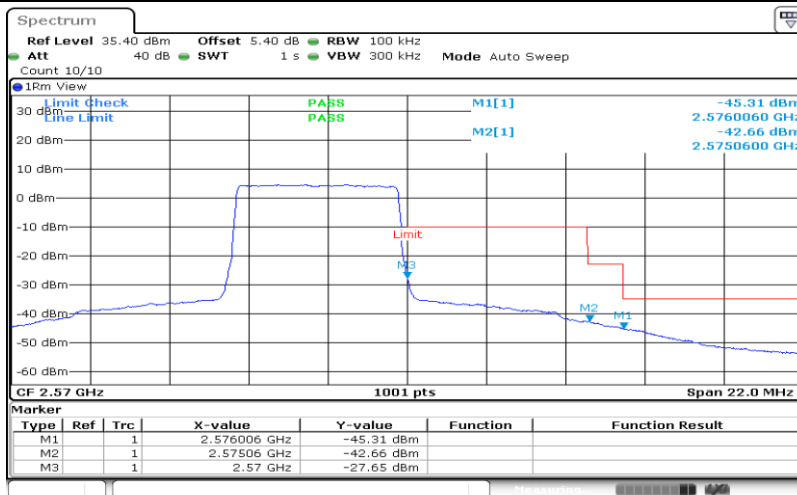
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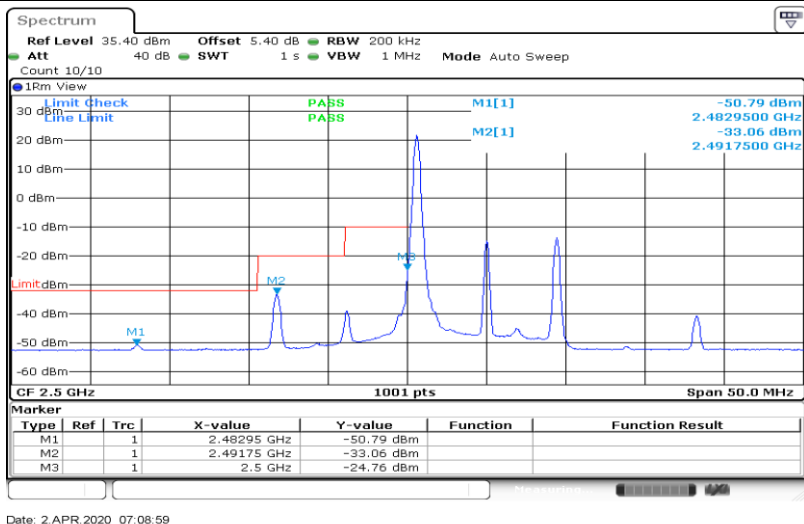


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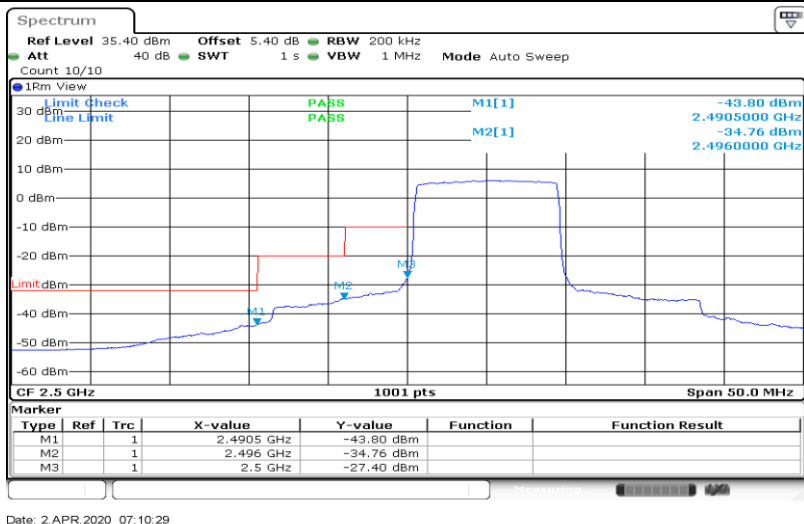


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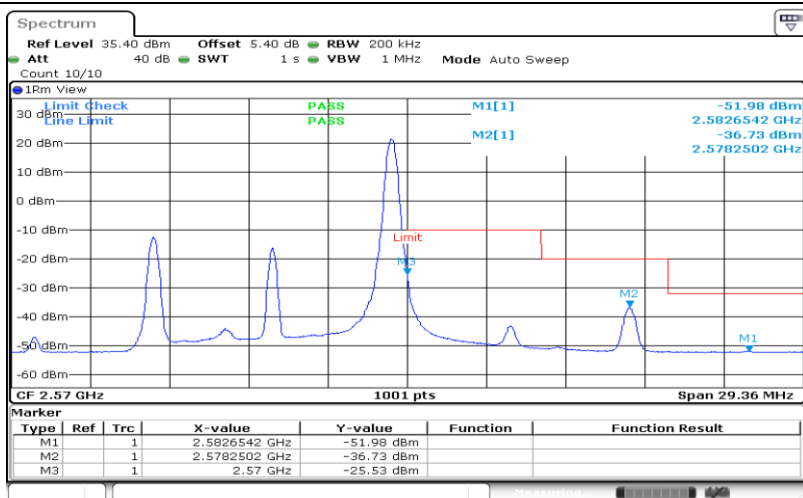


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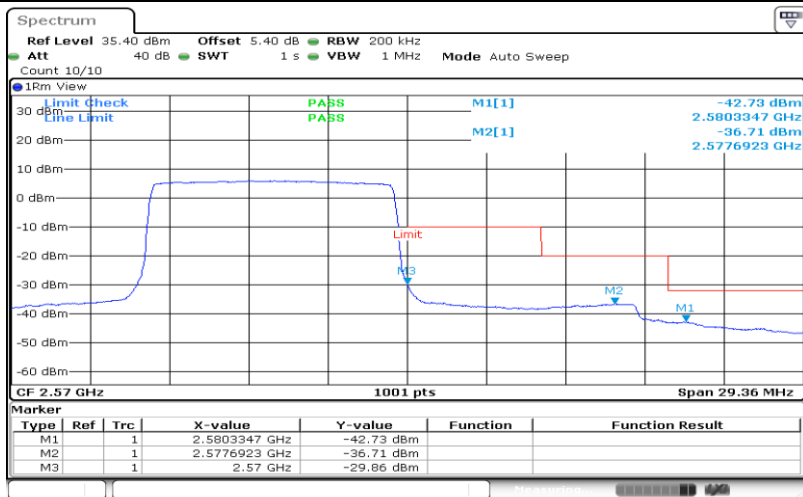


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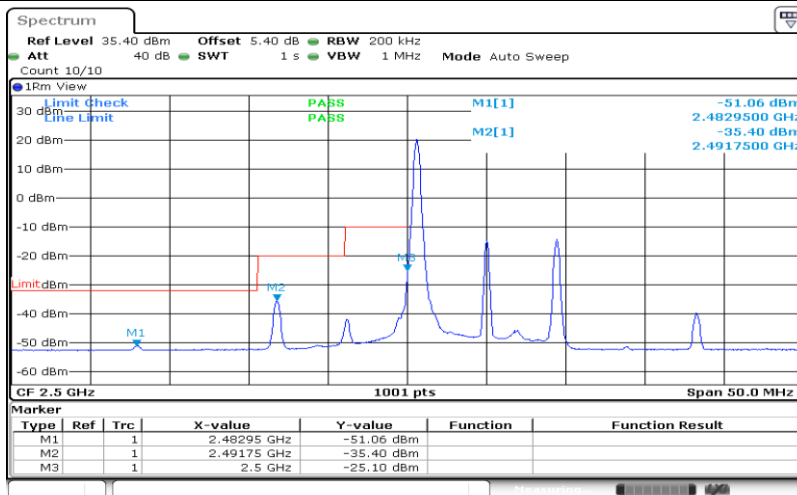


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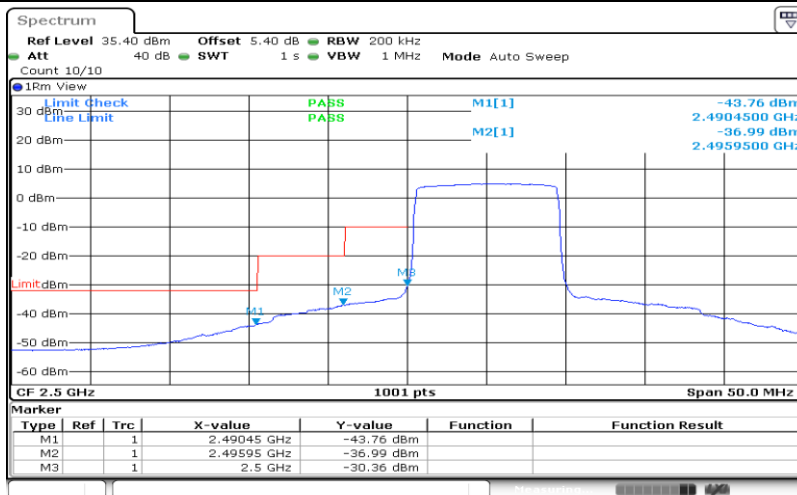
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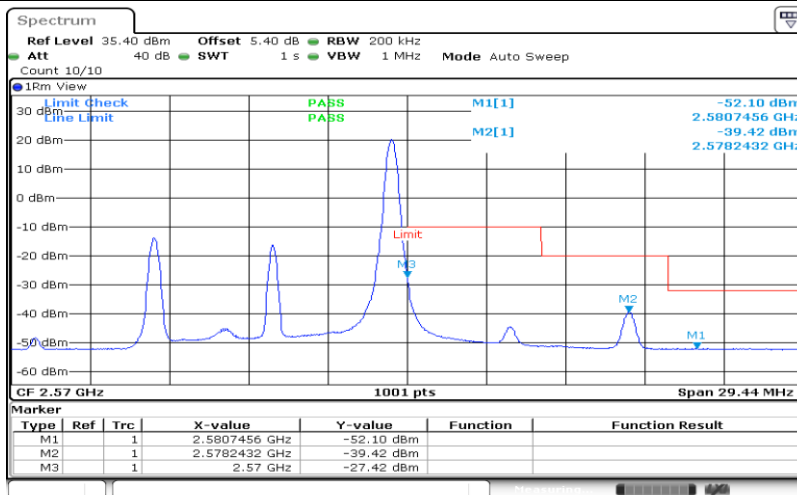
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Band7-10MHz-16QAM-21400-1RB#49



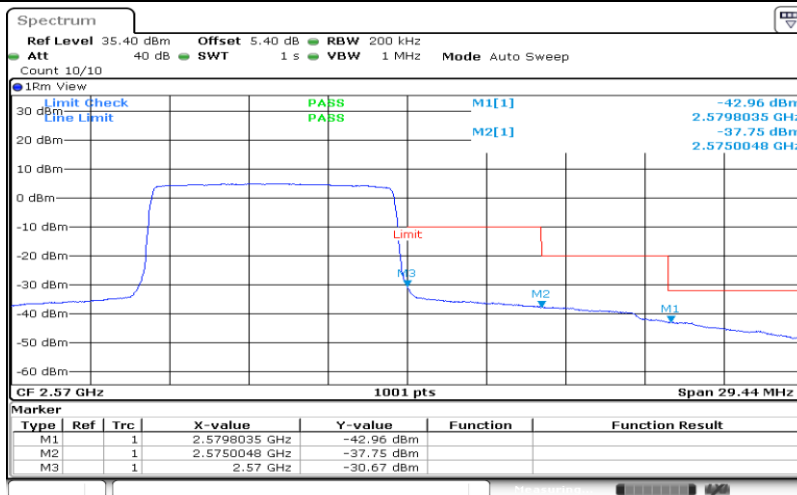
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Band7-10MHz-16QAM-21400-50RB#0



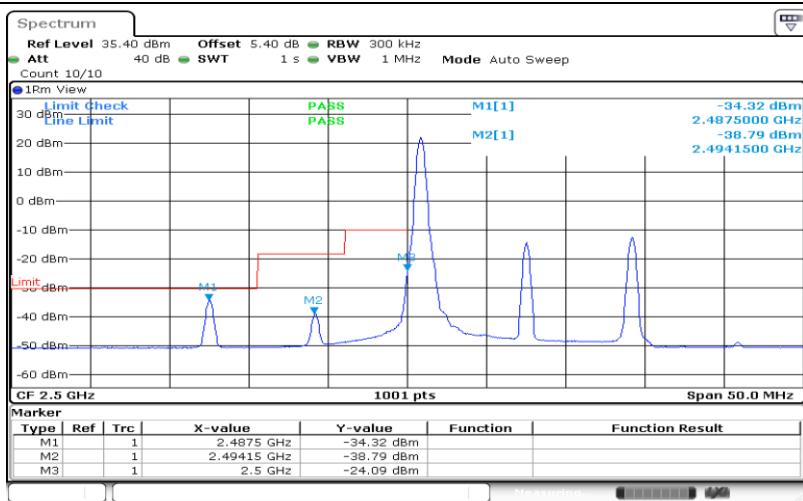
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Band7-15MHz-QPSK-20825-1RB#0

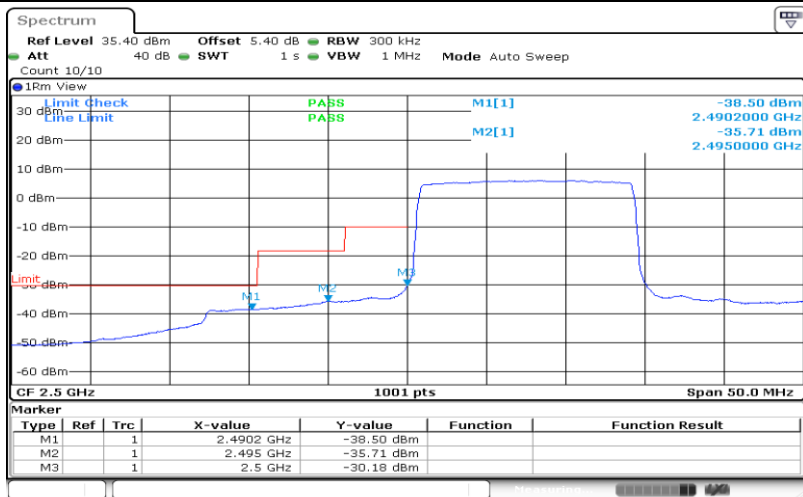


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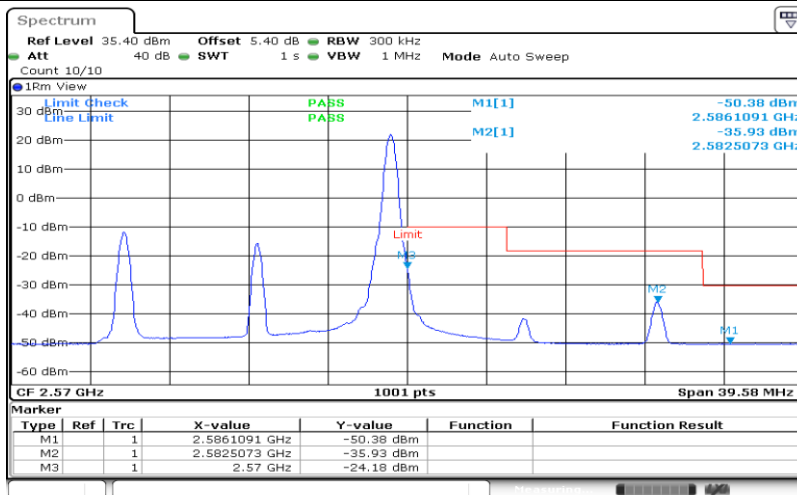


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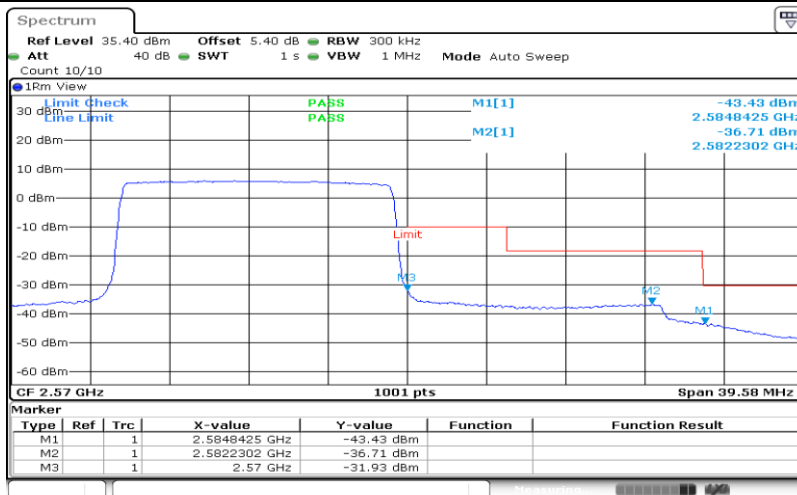
Band7-15MHz-QPSK-21375-1RB#74





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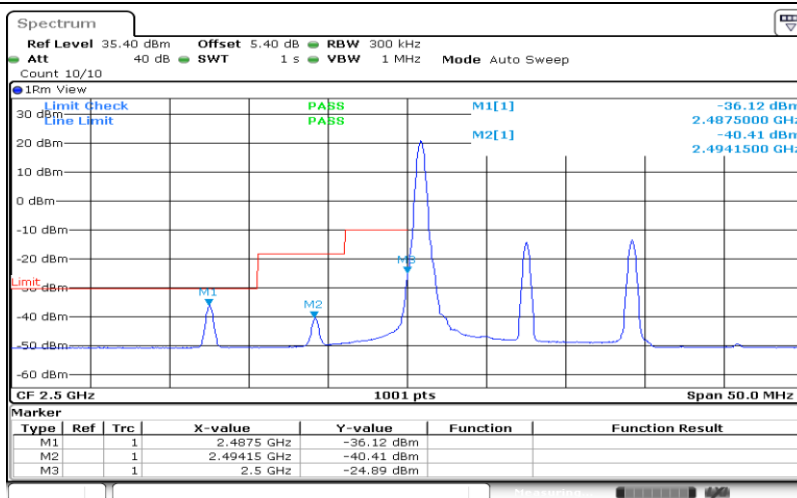
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Band7-15MHz-16QAM-20825-1RB#0

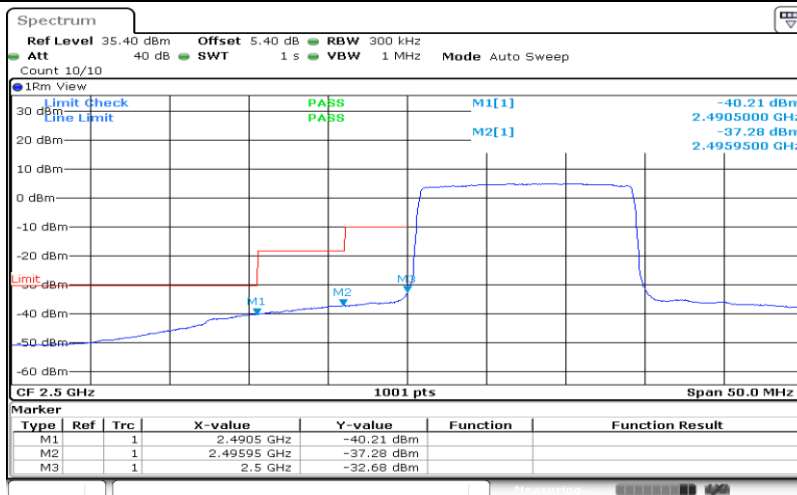


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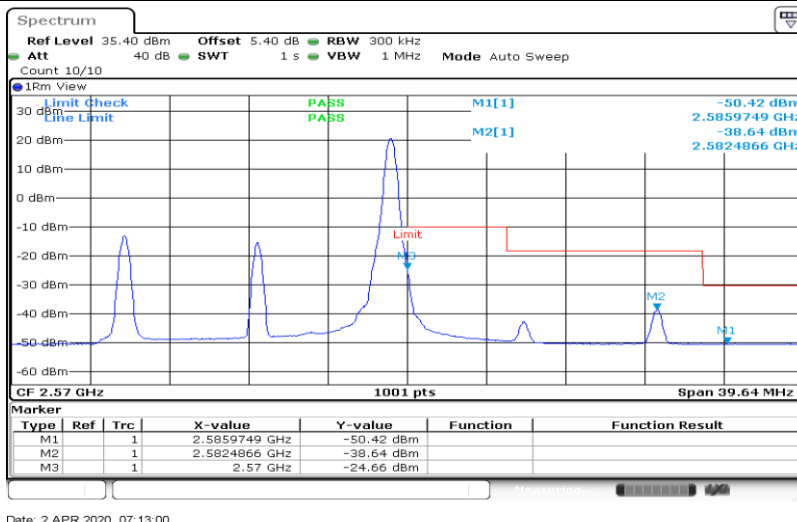


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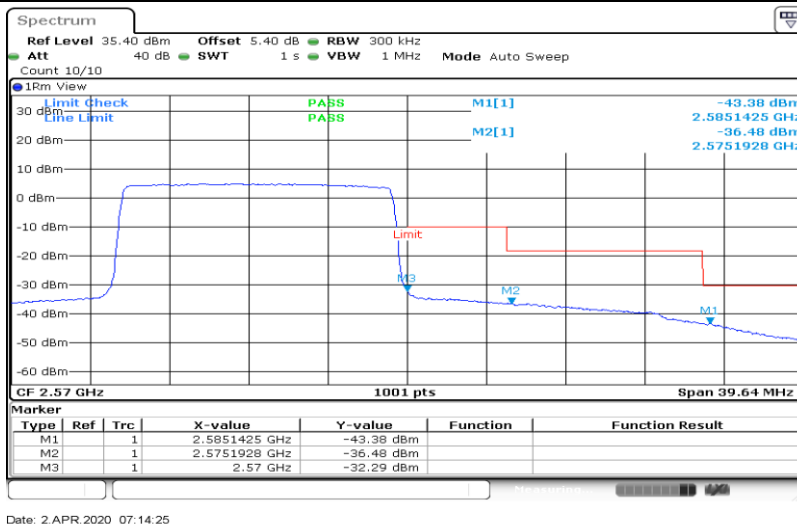


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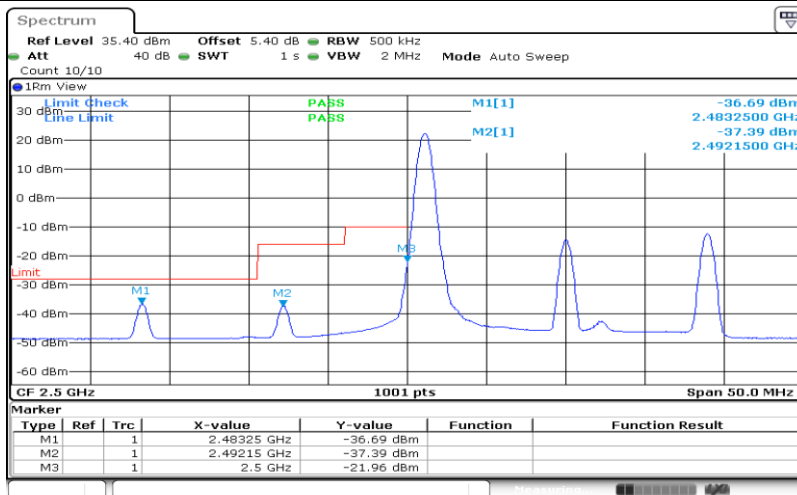


Band7-20MHz-QPSK-20850-1RB#0



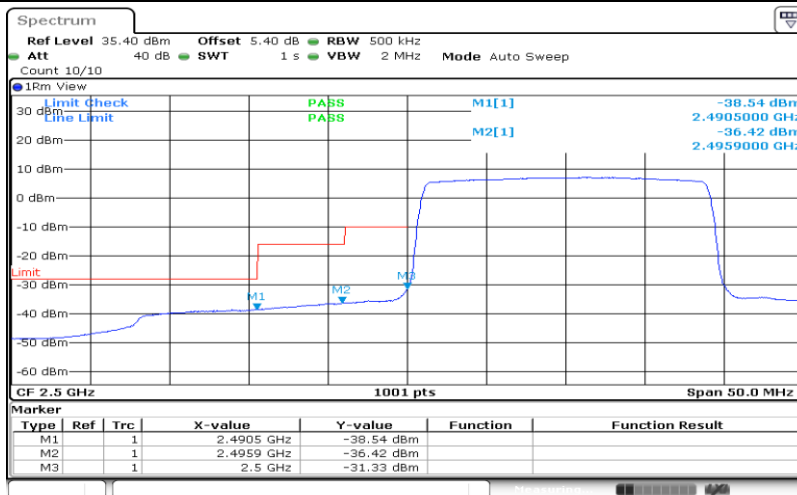
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Date: 2 APR 2020 07:14:51

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



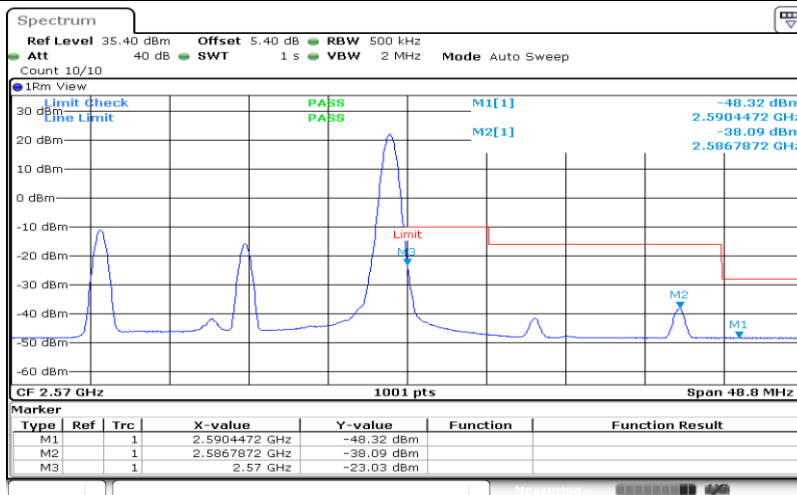
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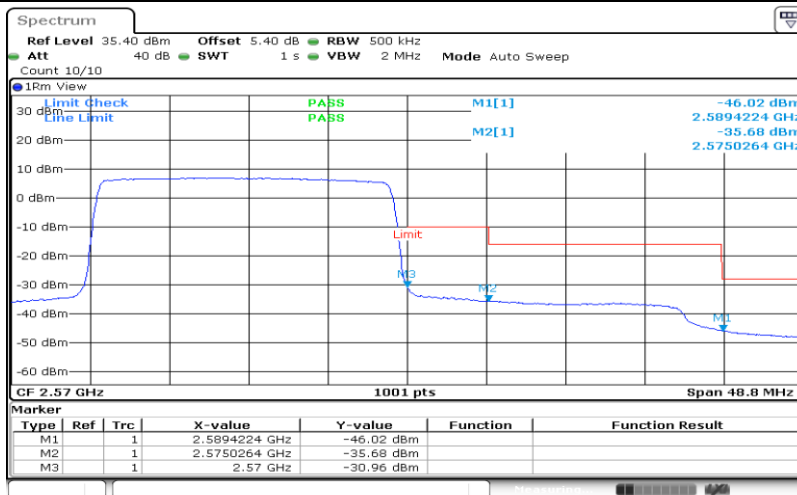
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Date: 2 APR 2020 07:15:36

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



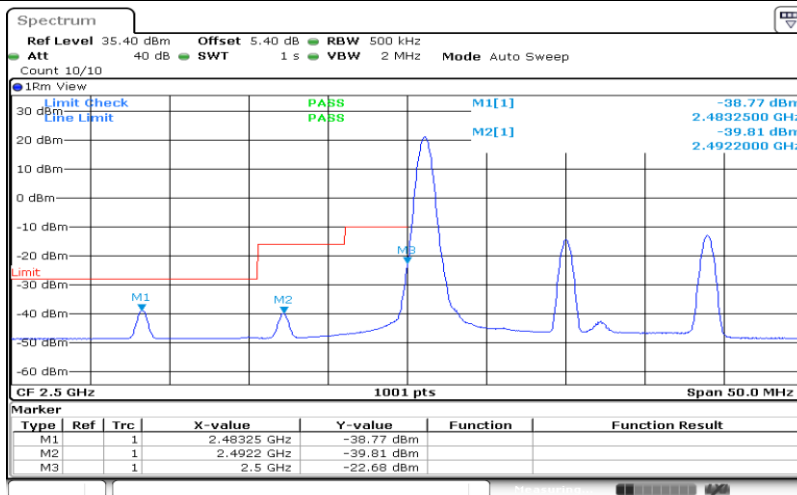
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Band7-20MHz-16QAM-20850-1RB#0



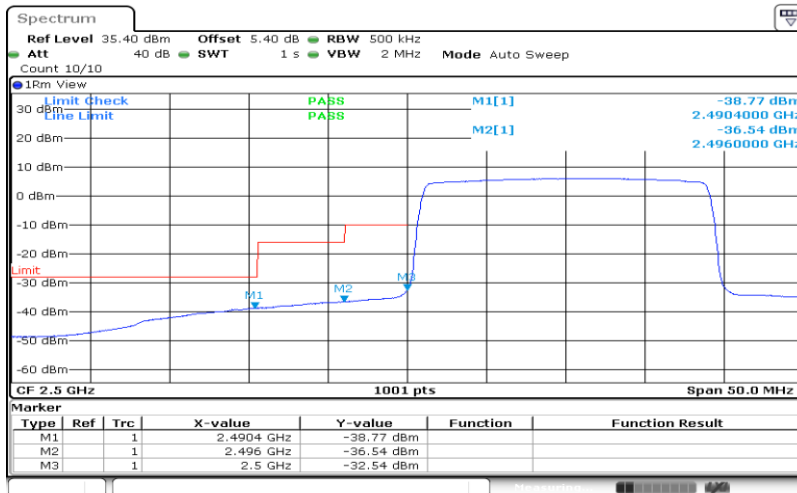
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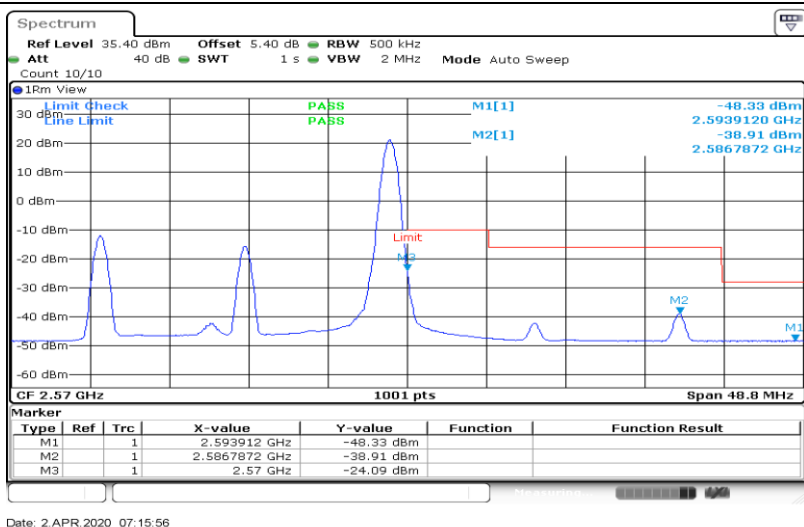
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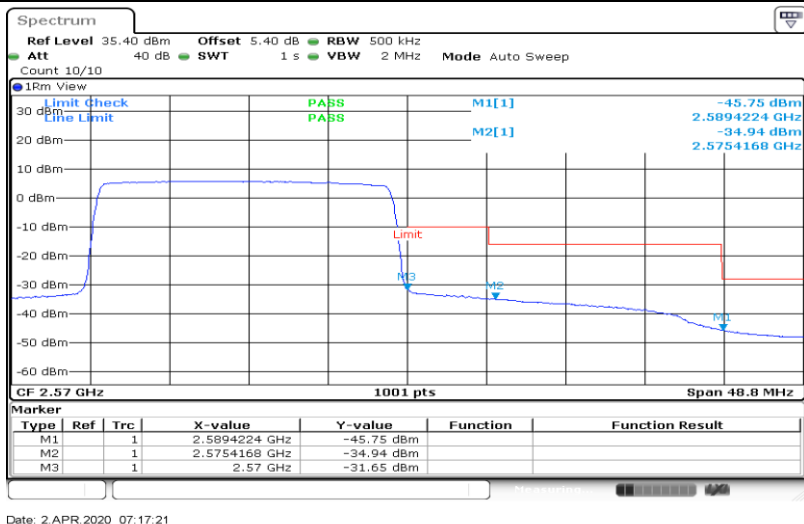


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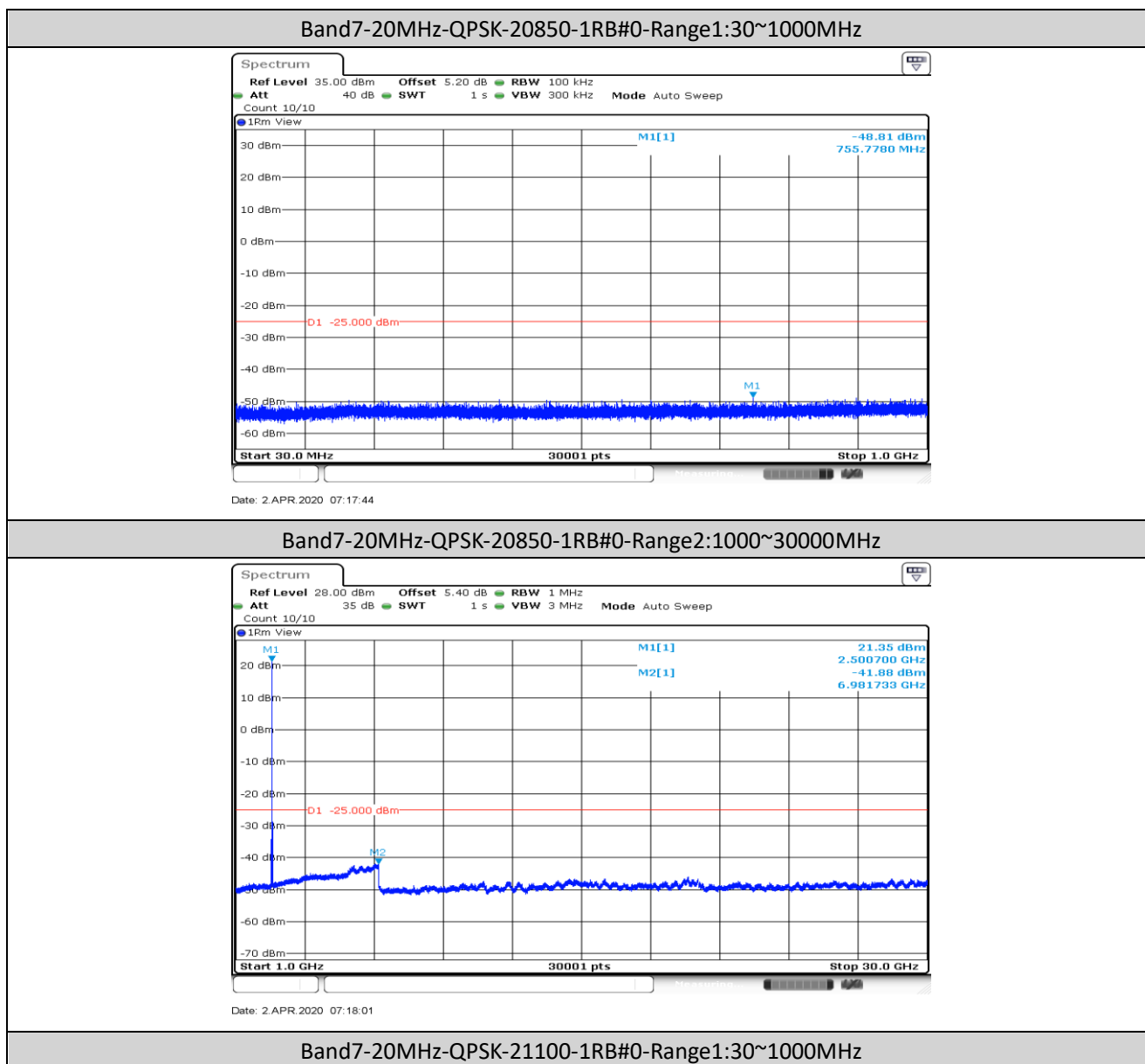


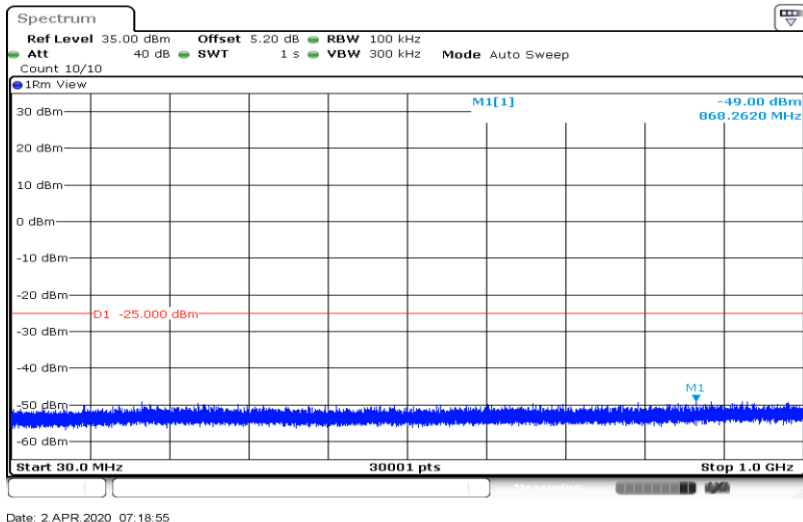
6. Spurious Emission at Antenna Terminal

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.

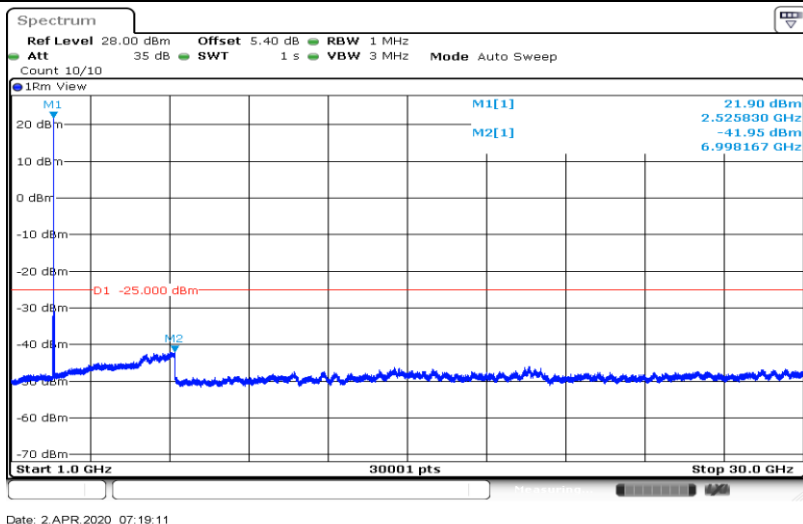
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





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

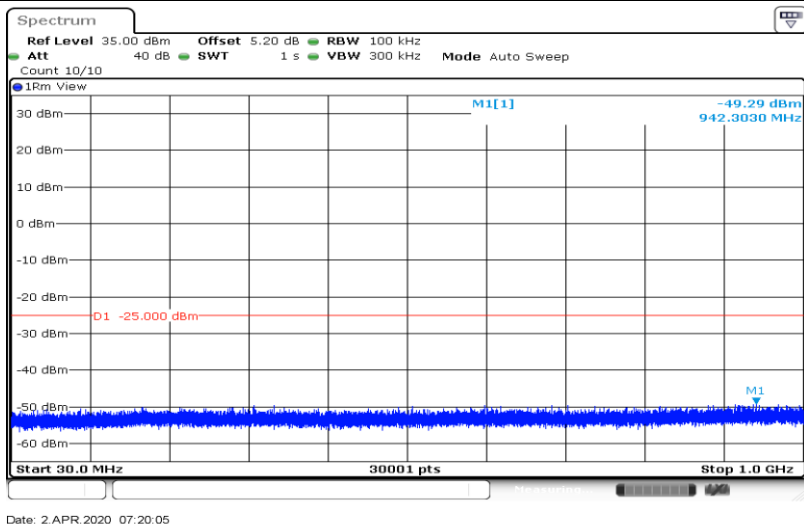


Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz

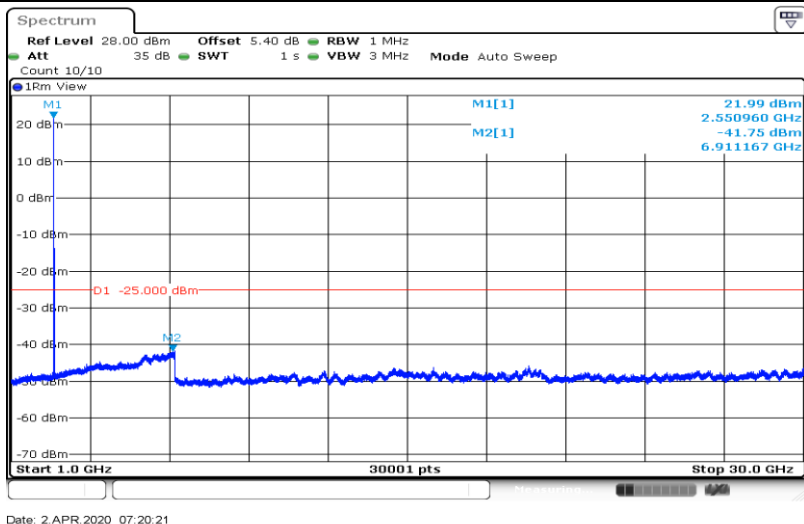


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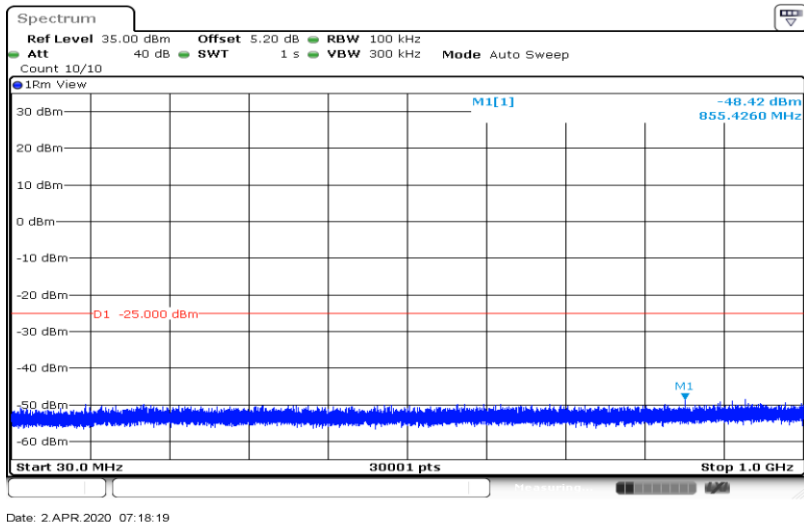


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz

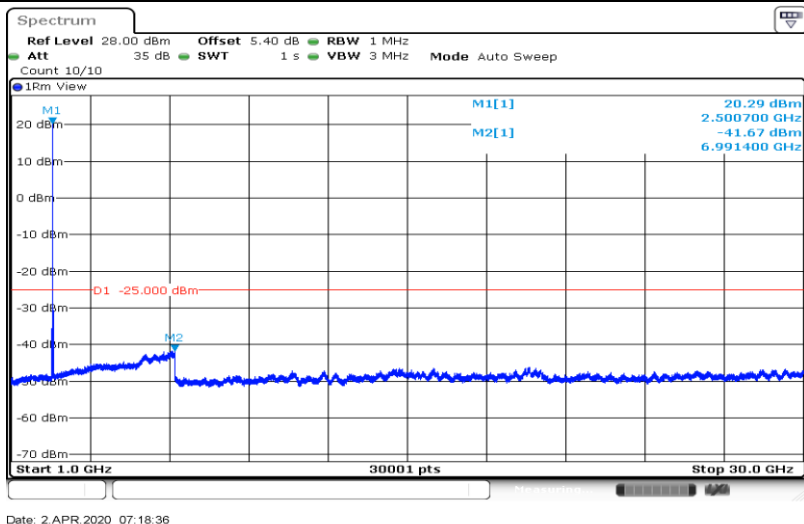


Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz





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

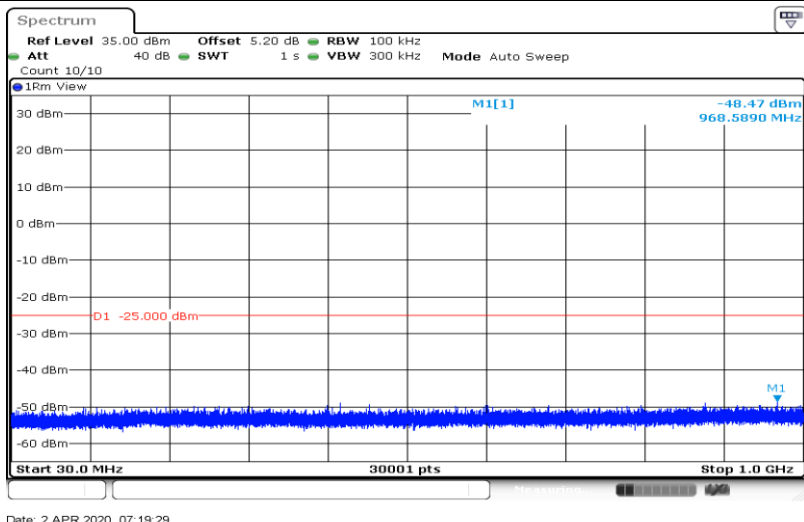


Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz

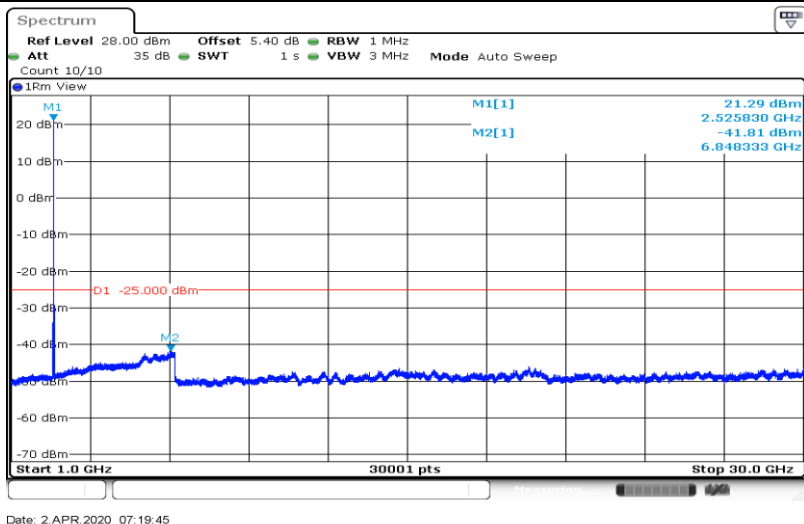


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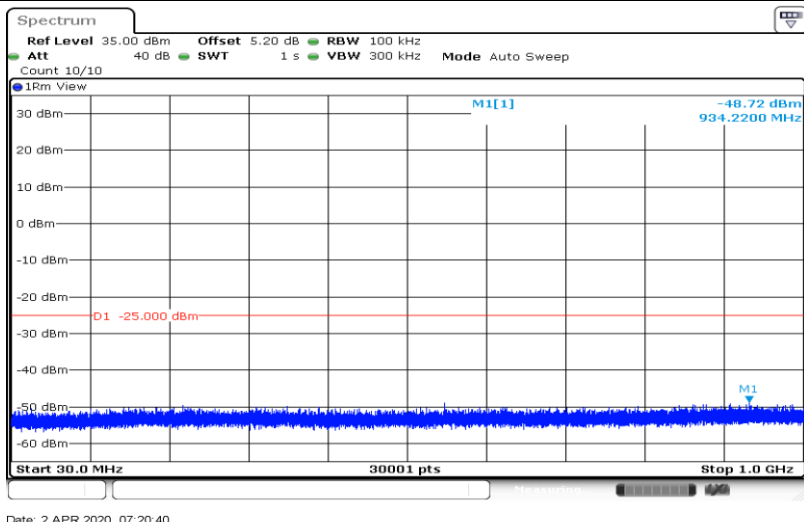


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz

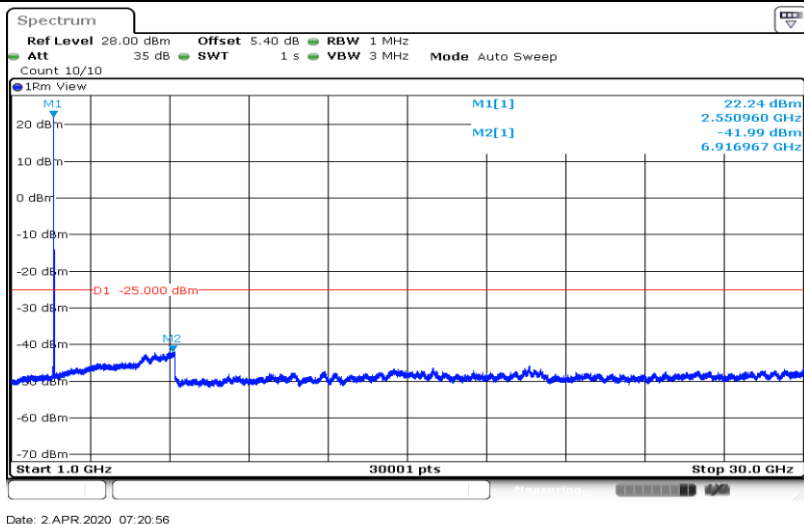


Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz





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





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)	Height [cm]	Angle [°]	Polarization
104.3542	-65.23	-25.00	40.23	271	119	Vertical
1730.5461	-44.94	-25.00	19.94	241	331	Vertical
5002.2801	-44.20	-25.00	19.20	259	288	Vertical
7503.1801	-52.97	-25.00	27.97	284	96	Vertical
14500.0600	-48.26	-25.00	23.26	263	15	Vertical
17999.4000	-40.51	-25.00	15.51	287	15	Vertical
40.9130	-65.30	-25.00	40.30	174	61	Horizontal
590.9790	-64.94	-25.00	39.94	185	85	Horizontal
1595.3191	-45.72	-25.00	20.72	196	254	Horizontal
5002.2801	-51.12	-25.00	26.12	174	343	Horizontal
10004.0802	-50.91	-25.00	25.91	185	162	Horizontal
16388.3355	-44.65	-25.00	19.65	177	40	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
57.5979	-67.96	-25.00	42.96	174	230	Vertical
494.5562	-67.48	-25.00	42.48	165	37	Vertical
5052.0821	-45.05	-25.00	20.05	174	275	Vertical
7578.1831	-52.87	-25.00	27.87	196	105	Vertical
12630.3852	-47.64	-25.00	22.64	214	297	Vertical
17997.5999	-41.05	-25.00	16.05	247	318	Vertical
41.3981	-64.53	-25.00	39.53	147	182	Horizontal
513.5207	-66.59	-25.00	41.59	185	60	Horizontal
1808.1616	-44.22	-25.00	19.22	163	94	Horizontal
5052.0821	-50.65	-25.00	25.65	187	328	Horizontal
12630.9852	-50.69	-25.00	25.69	185	230	Horizontal
16395.5358	-44.83	-25.00	19.83	196	33	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
56.9188	-67.74	-25.00	42.74	241	182	Vertical
107.7494	-65.98	-25.00	40.98	275	182	Vertical
1695.3391	-45.29	-25.00	20.29	265	208	Vertical
5101.8841	-46.98	-25.00	21.98	284	304	Vertical
12755.7902	-46.23	-25.00	21.23	287	228	Vertical
17999.4000	-40.54	-25.00	15.54	214	70	Vertical
46.1513	-64.40	-25.00	39.40	147	259	Horizontal
540.0515	-65.68	-25.00	40.68	158	306	Horizontal
1803.3607	-44.23	-25.00	19.23	174	116	Horizontal
5102.4841	-54.09	-25.00	29.09	196	326	Horizontal
11989.5596	-52.32	-25.00	27.32	178	326	Horizontal
16400.9360	-44.51	-25.00	19.51	188	107	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



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