

Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.22	23.92	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.43	24.13	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.83	23.53	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.85	22.55	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.99	22.69	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.93	22.63	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.98	22.68	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.17	23.87	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.72	23.42	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.54	23.24	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.76	22.46	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.80	22.5	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.73	22.43	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.79	22.49	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.11	23.81	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.76	23.46	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.65	23.35	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.68	22.38	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.74	22.44	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.82	22.52	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.76	22.46	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.71	22.41	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.04	22.74	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.73	22.43	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.84	21.54	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.86	21.56	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.80	21.5	33.00	PASS



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Band7	5MHz	16QAM	20775	25RB#0	20.89	21.59	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.04	22.74	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.19	22.89	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.79	22.49	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.68	21.38	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.78	21.48	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.70	21.4	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.80	21.5	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.81	22.51	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.86	22.56	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.75	22.45	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.67	21.37	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.72	21.42	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.74	21.44	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.66	21.36	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.30	24	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.38	24.08	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.35	24.05	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.47	23.17	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.98	22.68	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.02	22.72	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.30	24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.21	23.91	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.83	23.53	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.67	23.37	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.85	22.55	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.88	22.58	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.88	22.58	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.21	23.91	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.10	22.8	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.17	22.87	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.84	22.54	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.87	21.57	33.00	PASS



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Band7	10MHz	QPSK	21400	25RB#0	20.93	21.63	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.92	21.62	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.97	21.67	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.19	22.89	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.84	22.54	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.98	22.68	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.88	21.58	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.75	21.45	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.80	21.5	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.82	21.52	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.76	22.46	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.26	22.96	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.83	22.53	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.94	21.64	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.95	21.65	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.84	21.54	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.84	21.54	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.17	23.87	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.42	24.12	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.18	23.88	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.29	22.99	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.54	23.24	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.52	23.22	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	22.44	23.14	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.12	23.82	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.73	23.43	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.68	23.38	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	21.90	22.6	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	21.86	22.56	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	21.86	22.56	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.83	22.53	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.12	23.82	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.73	23.43	33.00	PASS



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Band7	15MHz	QPSK	21100	1RB#74	22.68	23.38	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	21.90	22.6	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	21.86	22.56	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	21.86	22.56	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.83	22.53	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.99	23.69	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.84	23.54	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.77	23.47	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	21.75	22.45	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	21.92	22.62	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.81	22.51	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.76	22.46	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.55	23.25	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.08	22.78	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.18	22.88	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	20.88	21.58	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	20.86	21.56	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.03	21.73	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.00	21.7	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.58	22.28	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.29	22.99	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.97	22.67	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	20.75	21.45	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	20.78	21.48	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	20.88	21.58	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.73	21.43	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.46	22.16	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.96	22.66	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.86	22.56	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	20.81	21.51	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	20.91	21.61	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.77	21.47	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.88	21.58	33.00	PASS



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Band7	20MHz	QPSK	20850	1RB#0	23.09	23.79	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.30	24	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.29	23.99	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.40	23.1	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.05	22.75	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.04	22.74	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.75	22.45	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.20	23.9	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.45	24.15	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.23	23.93	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.06	22.76	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.10	22.8	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.17	22.87	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.66	22.36	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.15	23.85	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.50	24.2	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.13	23.83	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.99	22.69	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.77	22.47	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.38	23.08	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.51	22.21	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.62	22.32	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.76	22.46	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.67	22.37	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.72	21.42	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.81	21.51	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.92	21.62	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.78	21.48	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.53	22.23	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.62	22.32	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.70	22.4	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.87	21.57	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.75	21.45	33.00	PASS



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Band7	20MHz	16QAM	21100	50RB#50	20.97	21.67	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.71	21.41	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.54	22.24	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.72	22.42	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.57	22.27	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.82	21.52	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.84	21.54	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.09	21.79	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.62	21.32	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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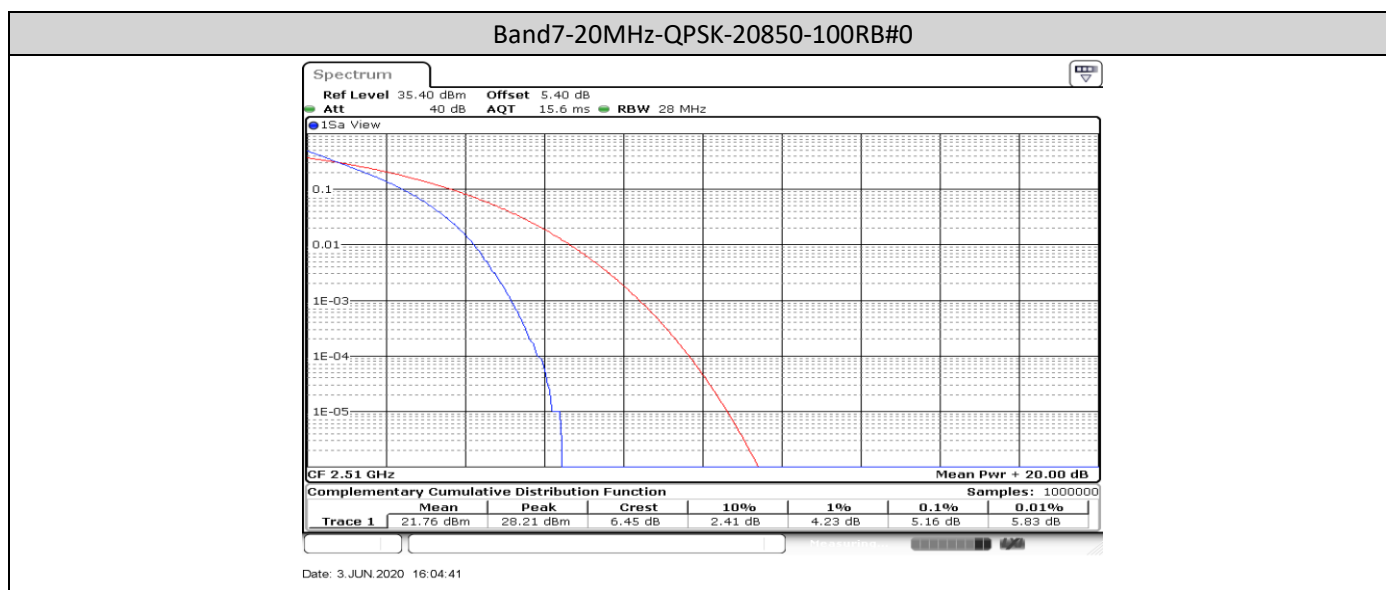


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

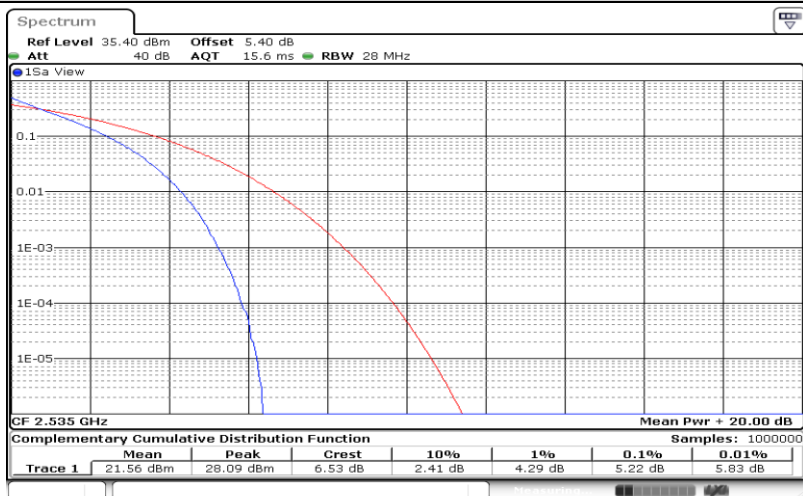
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.22	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.16	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.26	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.38	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.32	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.94	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.03	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.94	13	PASS

2.2. Test Plots



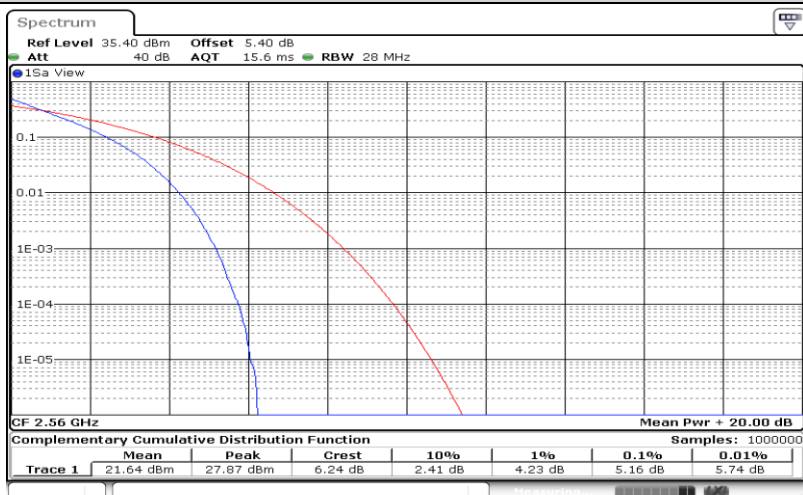


Band7-20MHz-QPSK-21100-100RB#0



Date: 3 JUN 2020 16:05:04

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

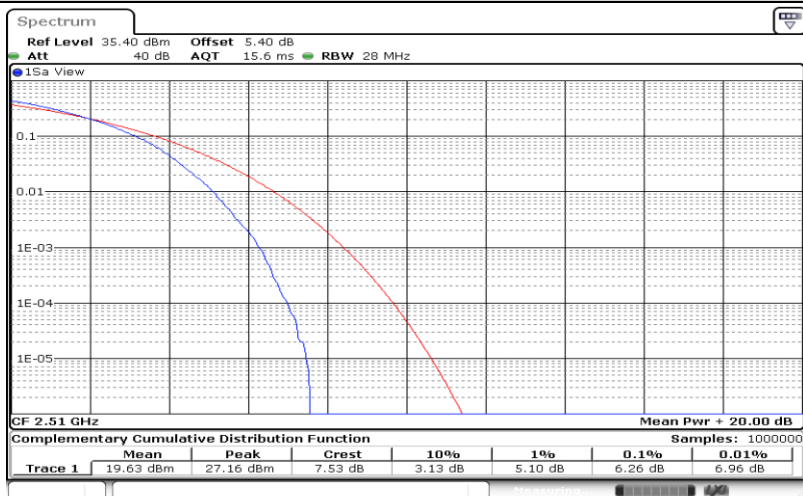


Date: 3 JUN 2020 16:05:27



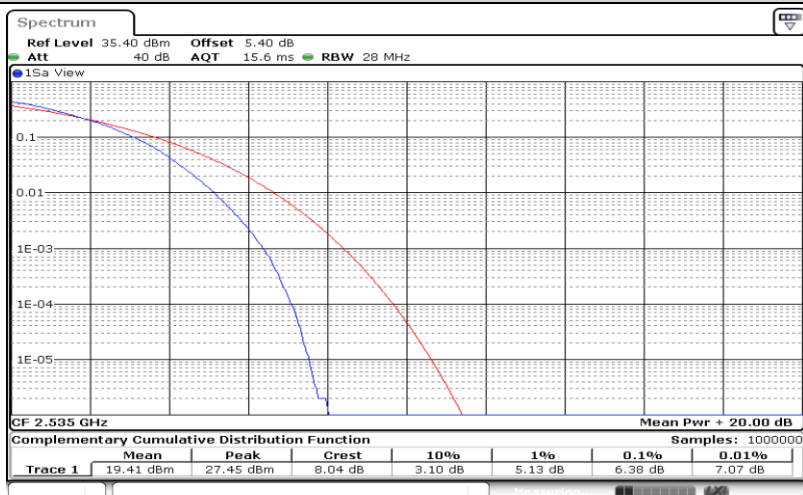


Band7-20MHz-64QAM-20850-100RB#0



Date: 5 JUN 2020 04:56:35

Band7-20MHz-64QAM-21100-100RB#0

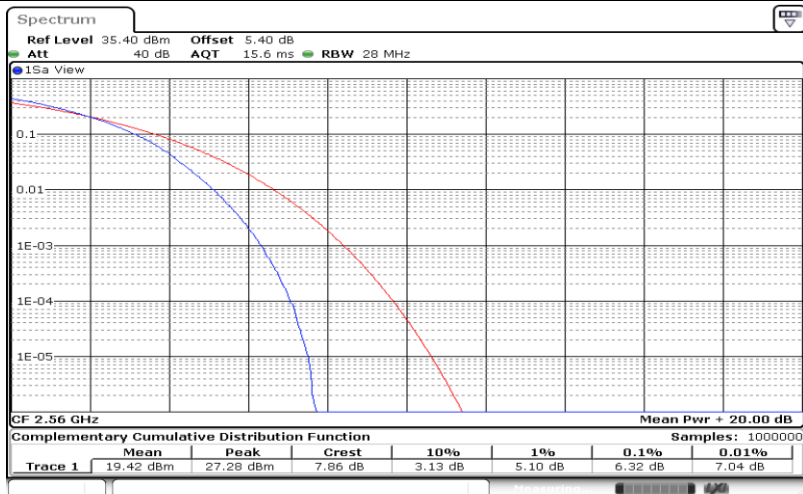


Date: 5 JUN 2020 04:56:47

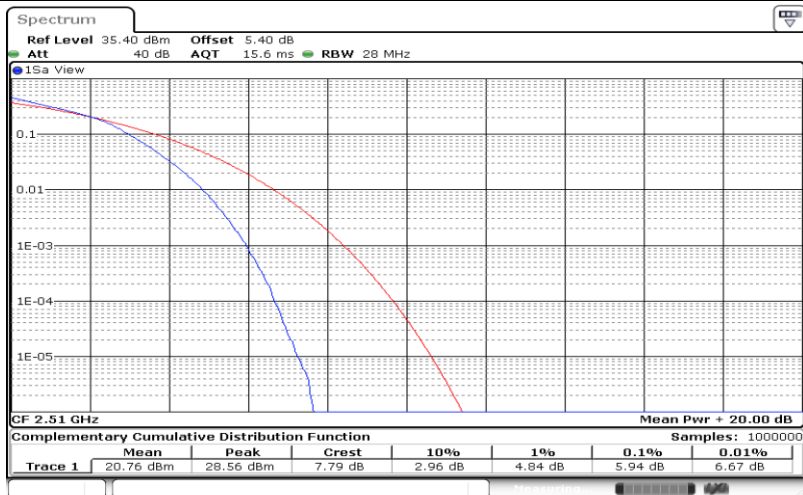




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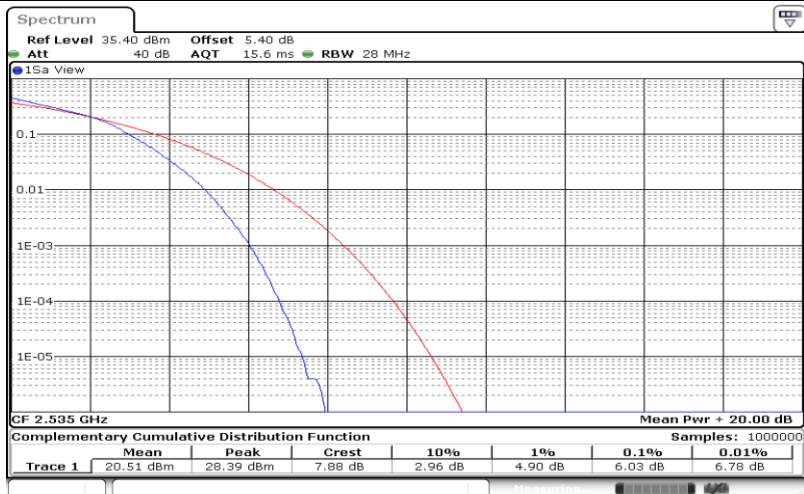


Band7-20MHz-16QAM-20850-100RB#0



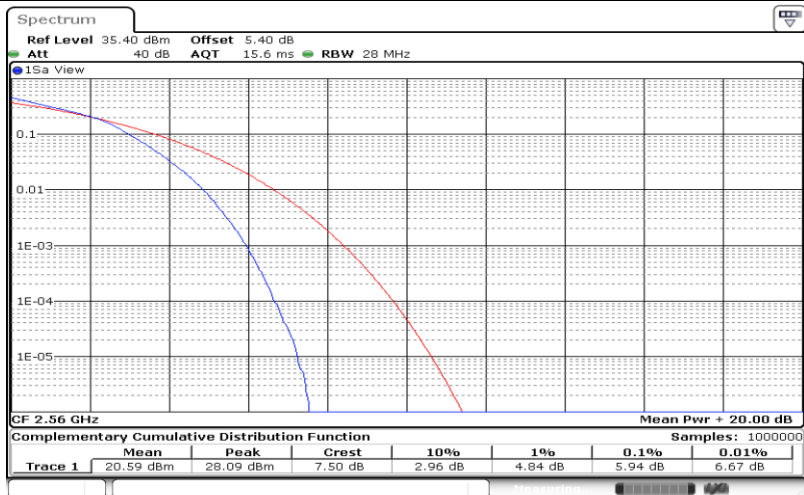


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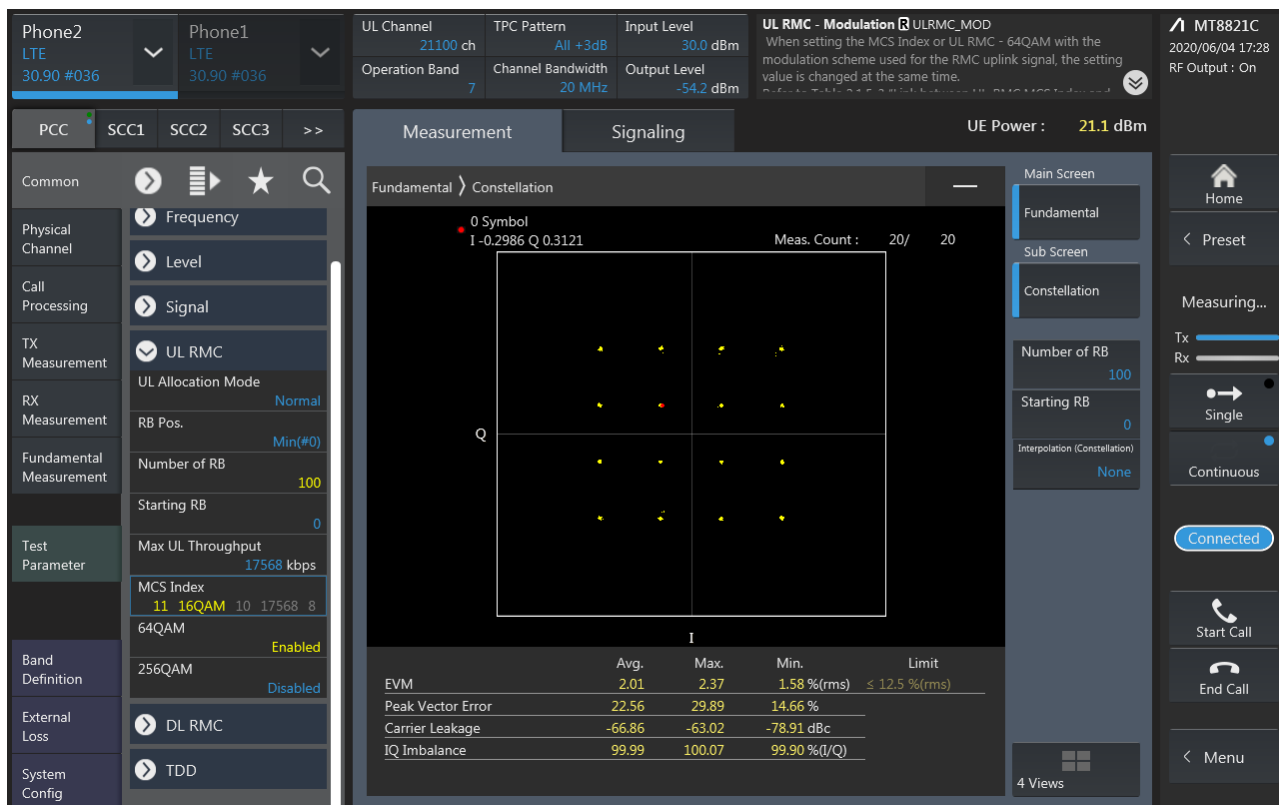


Date: 3 JUN 2020 16:05:38



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

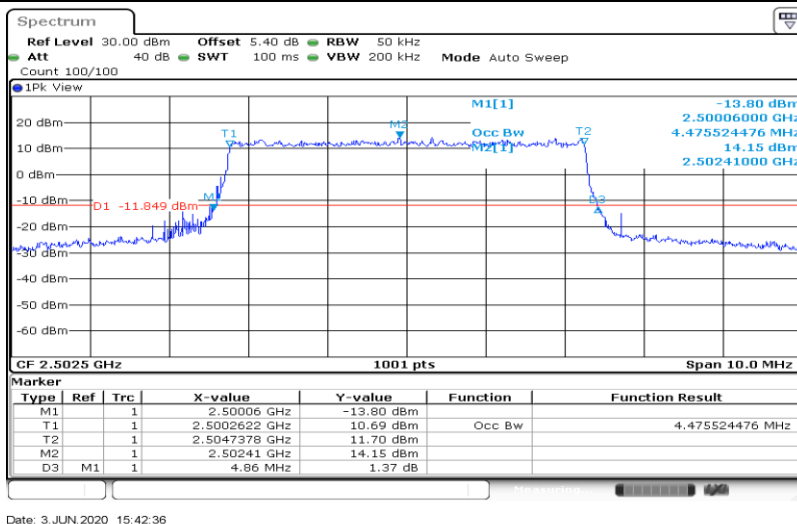
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.860	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.720	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.750	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.830	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.870	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.486	4.870	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.971	9.460	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.971	9.480	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.740	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.951	9.680	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	14.820	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.606	14.580	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.576	14.580	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.640	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.487	14.760	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.062	19.200	PASS
Band7	20MHz	QPSK	21100	100RB#0	18.062	19.120	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.022	19.080	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.942	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.942	19.360	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.902	19.280	PASS



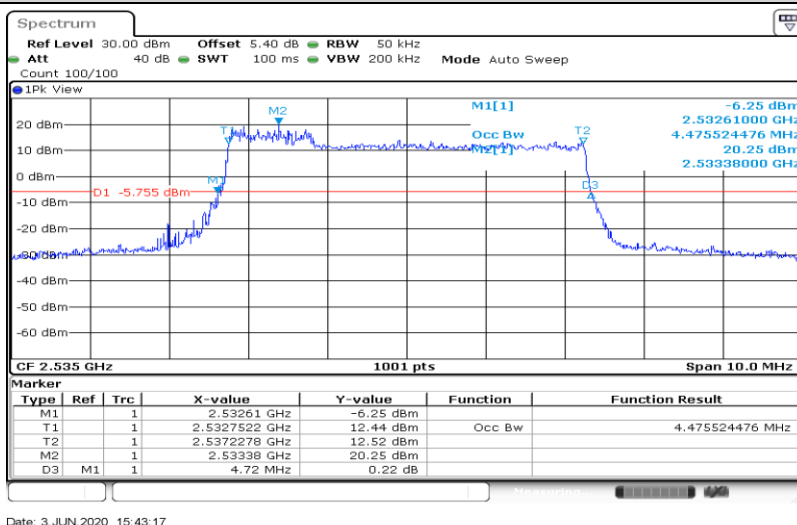


4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.476



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

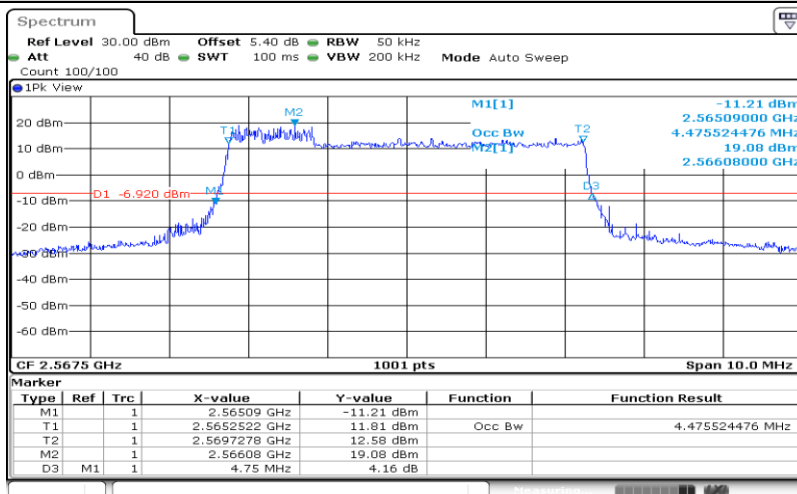


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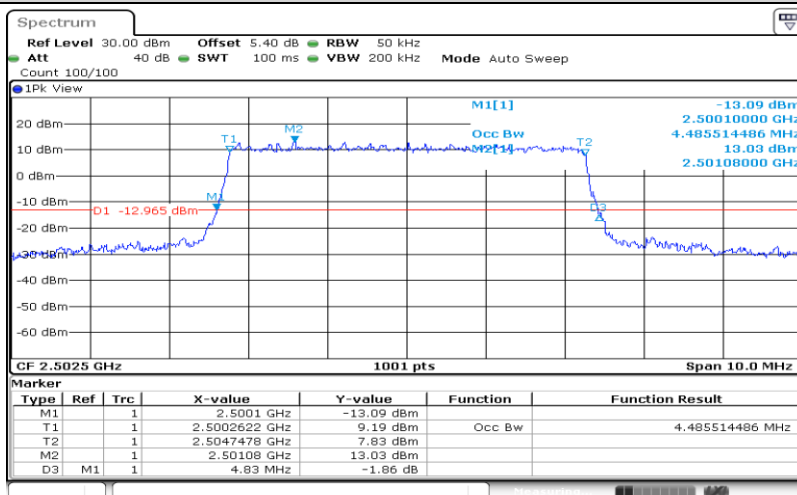


Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 3 JUN 2020 15:43:57

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



Date: 3 JUN 2020 15:42:56



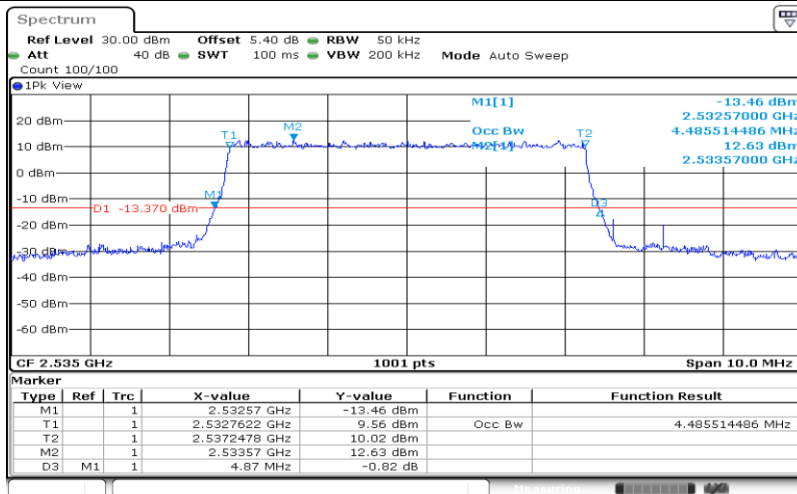
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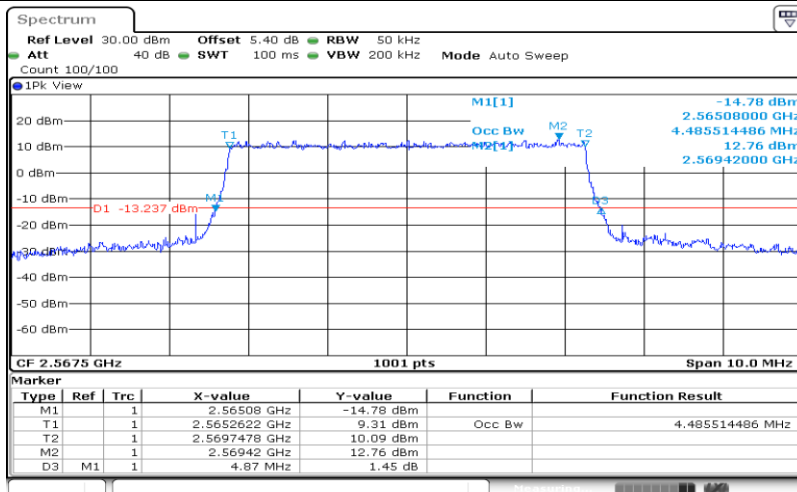


Band7-5MHz-16QAM-21100-25RB#0-4.486



Date: 3 JUN 2020 15:43:36

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

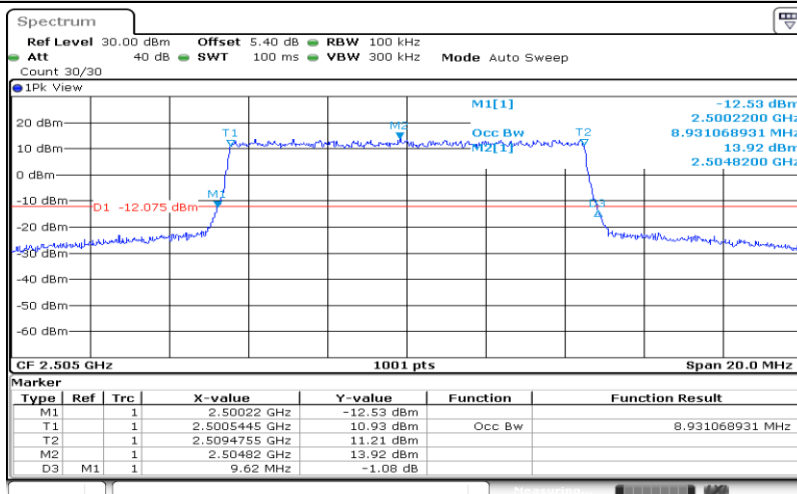


Date: 3 JUN 2020 15:44:16



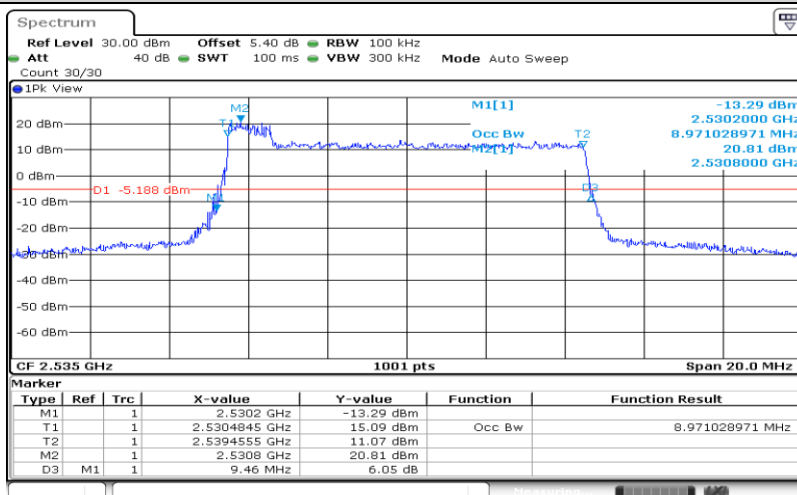


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 3 JUN 2020 15:44:35

Band7-10MHz-QPSK-21100-50RB#0-8.971



Date: 3 JUN 2020 15:45:02



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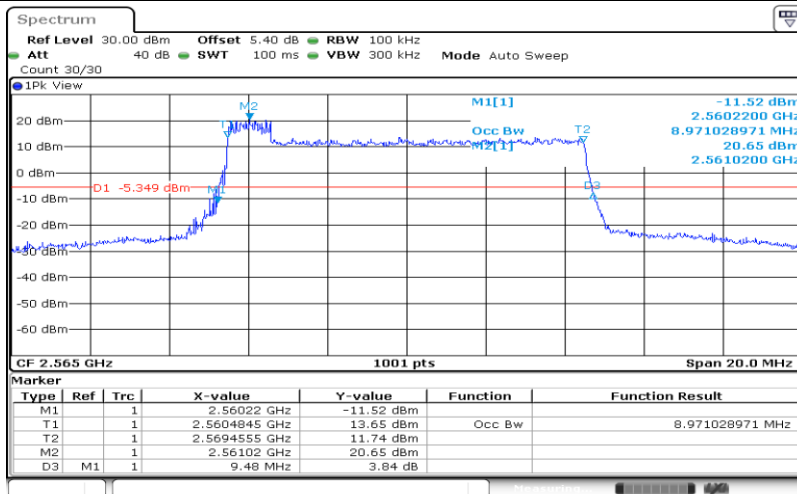
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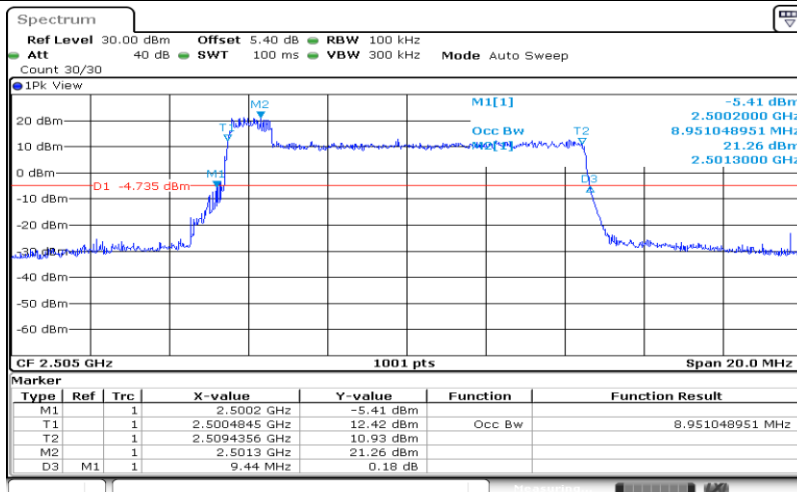


Band7-10MHz-QPSK-21400-50RB#0-8.971



Date: 3 JUN 2020 15:45:28

Band7-10MHz-64QAM-20800-50RB#0-8.951



Date: 5 JUN 2020 04:45:00



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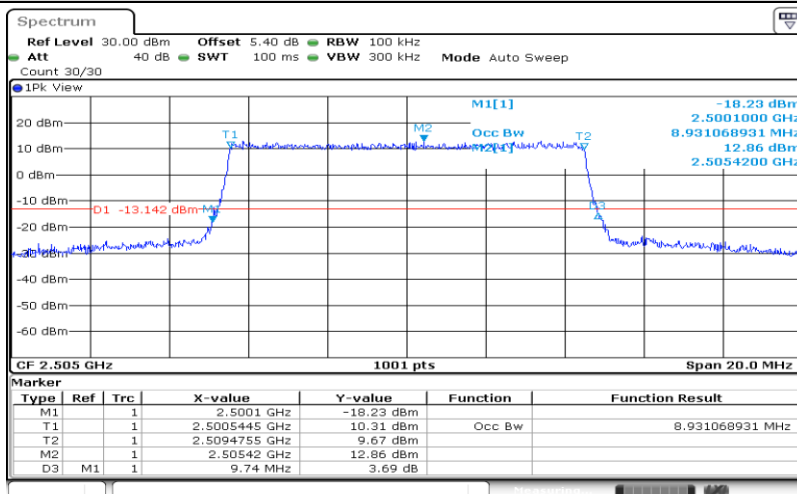
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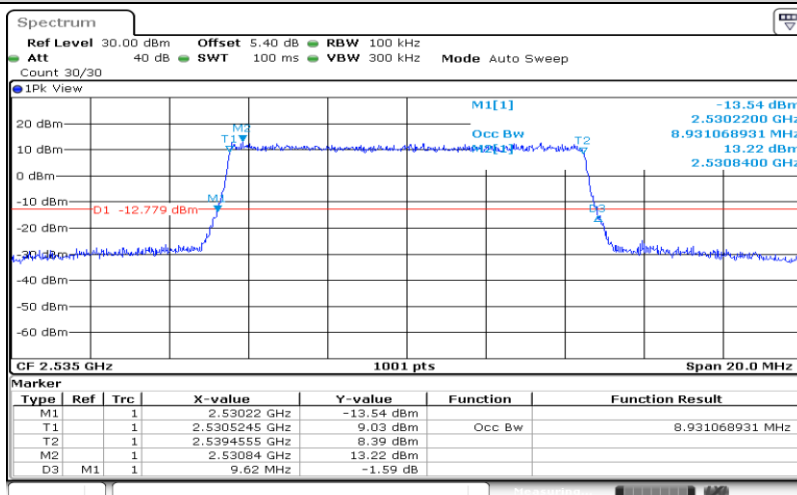


Band7-10MHz-16QAM-20800-50RB#0-8.931



Date: 3 JUN 2020 15:44:48

Band7-10MHz-16QAM-21100-50RB#0-8.931



Date: 3 JUN 2020 15:45:15



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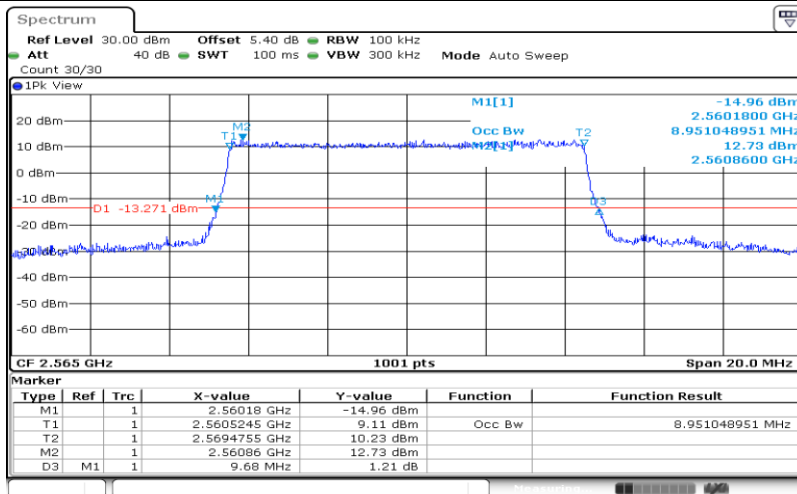
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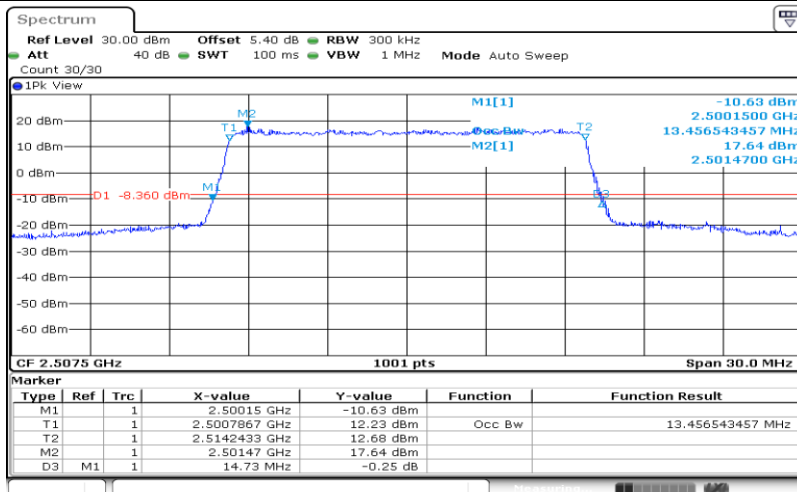


Band7-10MHz-16QAM-21400-50RB#0-8.951



Date: 3 JUN 2020 15:45:40

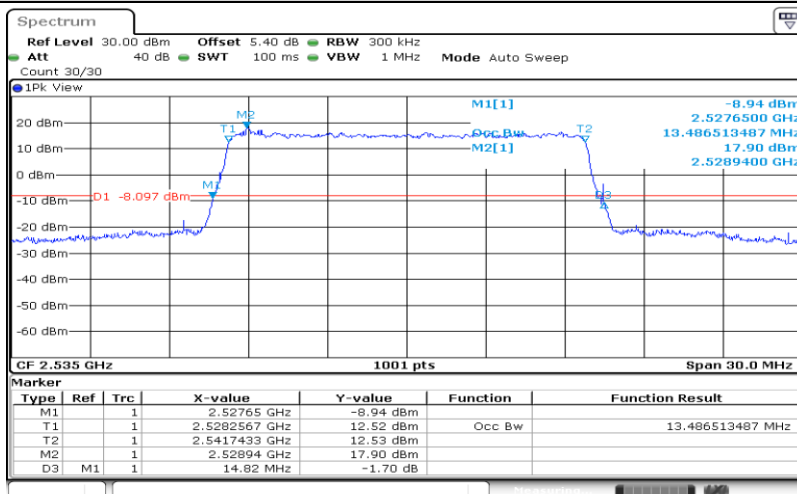
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Date: 3 JUN 2020 15:45:59

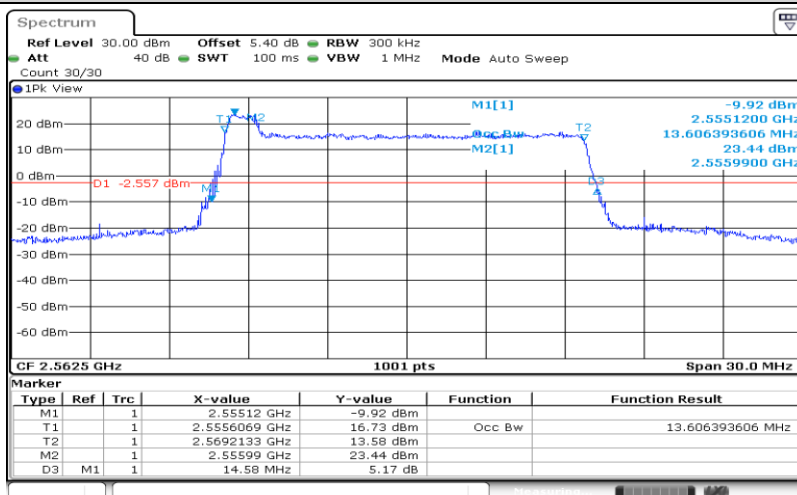


Band7-15MHz-QPSK-21100-75RB#0-13.487



Date: 3 JUN 2020 15:46:25

Band7-15MHz-QPSK-21375-75RB#0-13.606



Date: 3 JUN 2020 15:46:51



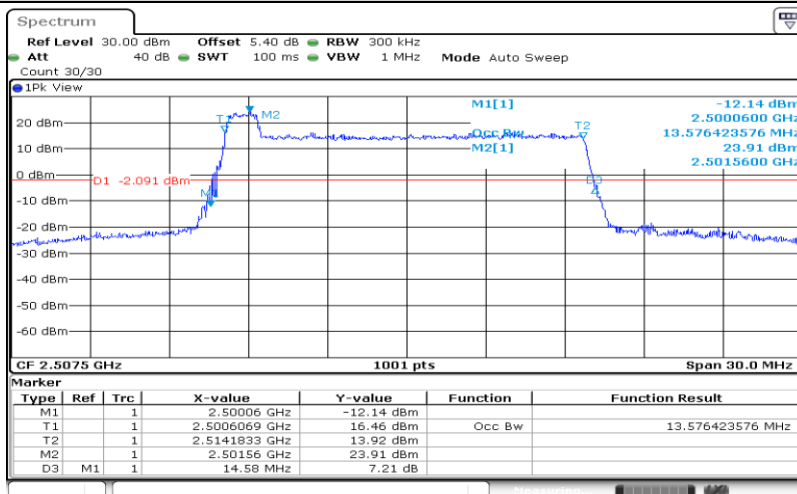
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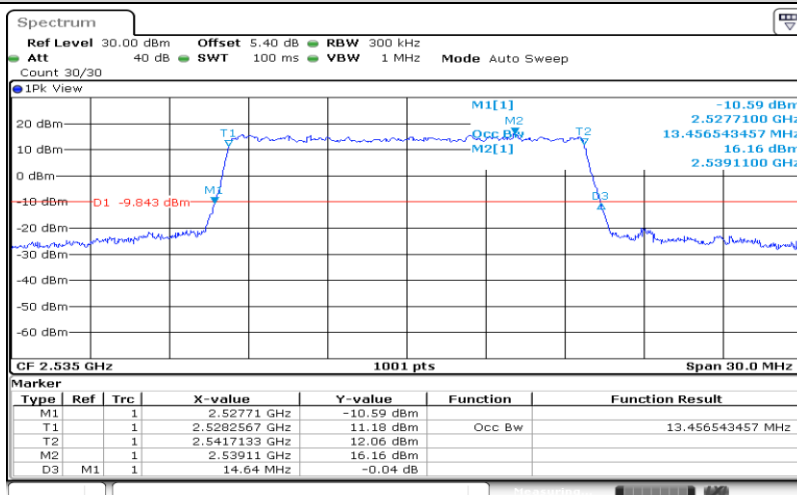


Band7-15MHz-16QAM-20825-75RB#0-13.576



Date: 3 JUN 2020 15:46:12

Band7-15MHz-16QAM-21100-75RB#0-13.457



Date: 3 JUN 2020 15:46:38

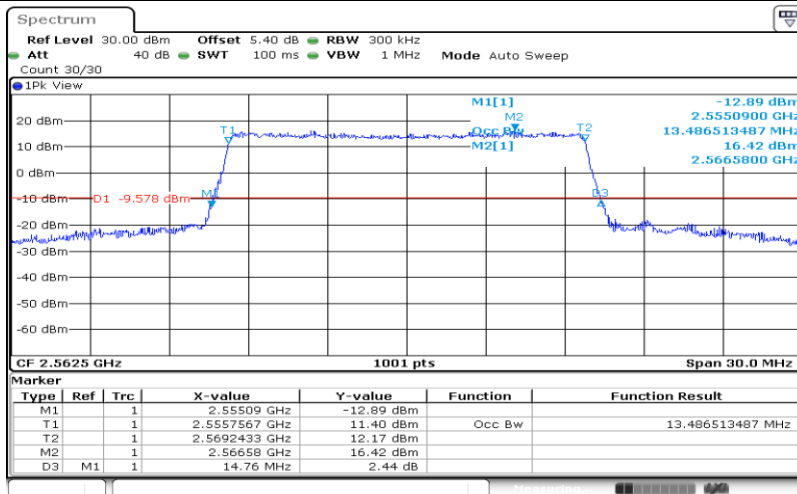


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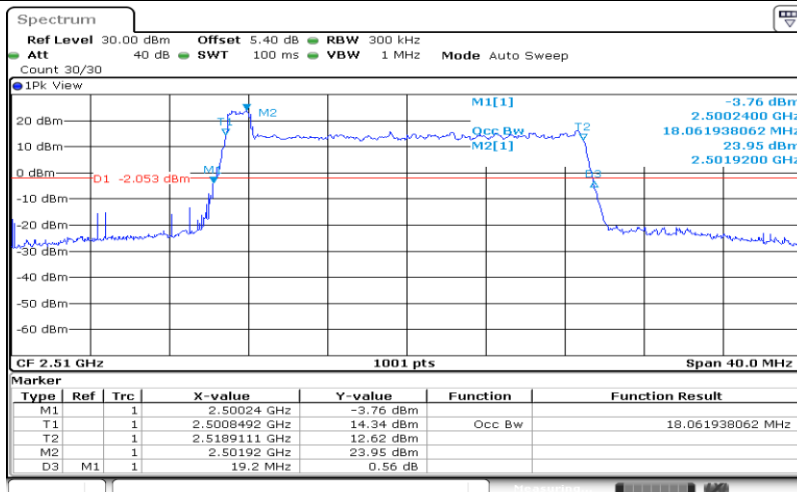
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Band7-15MHz-16QAM-21375-75RB#0-13.487



Date: 3 JUN 2020 15:47:03

Band7-20MHz-QPSK-20850-100RB#0-18.062



Date: 3 JUN 2020 15:47:22

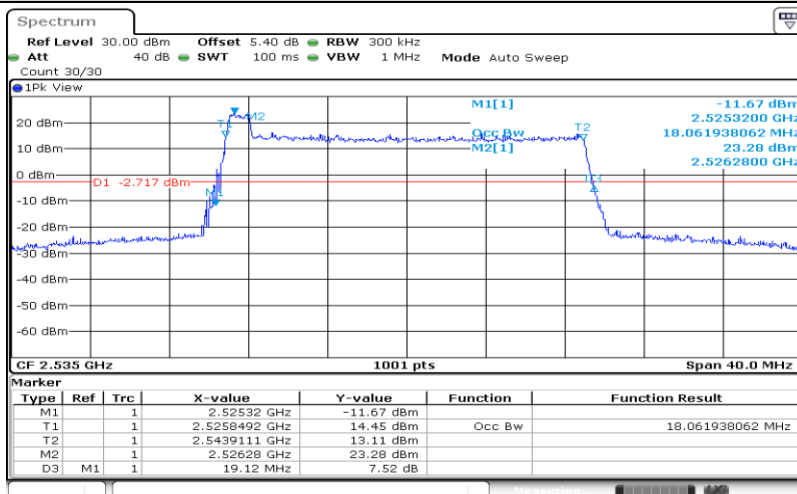


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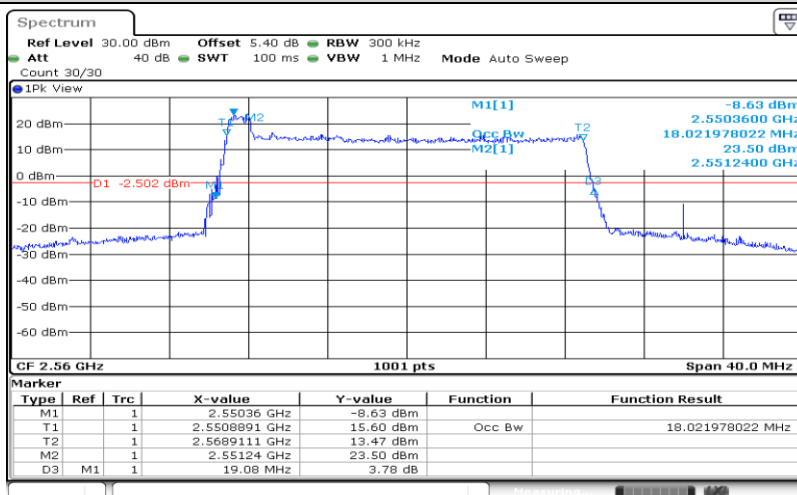


Band7-20MHz-QPSK-21100-100RB#0-18.062



Date: 3 JUN 2020 15:47:48

Band7-20MHz-QPSK-21350-100RB#0-18.022



Date: 3 JUN 2020 15:48:14



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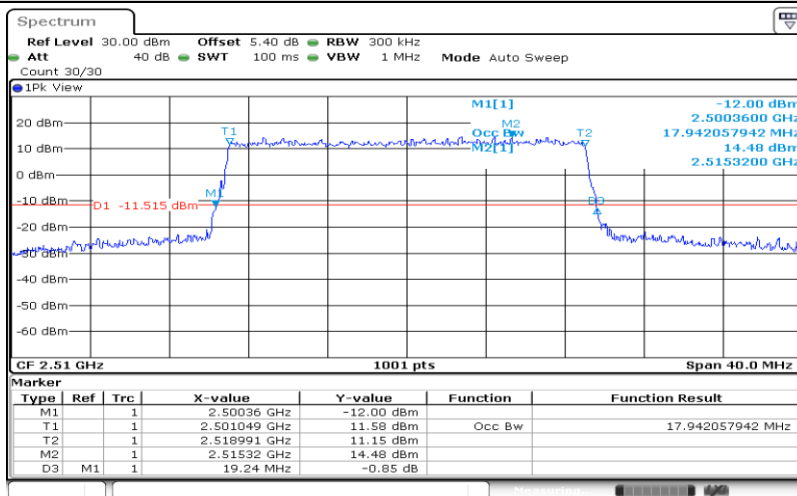
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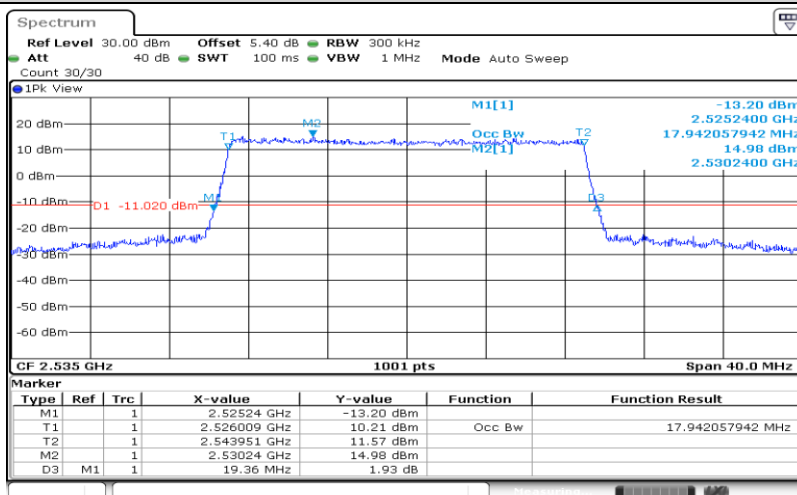


Band7-20MHz-16QAM-20850-100RB#0-17.942



Date: 3 JUN 2020 15:47:35

Band7-20MHz-16QAM-21100-100RB#0-17.942



Date: 3 JUN 2020 15:48:01



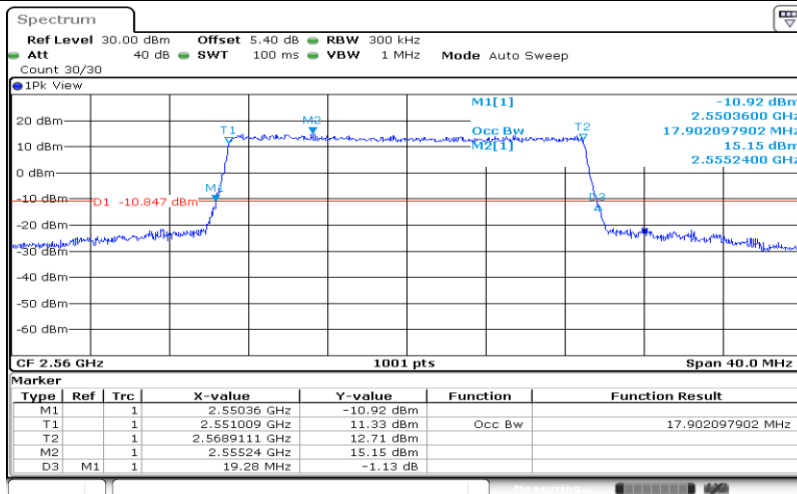
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Band7-20MHz-16QAM-21350-100RB#0-17.902



Date: 3 JUN 2020 15:48:27





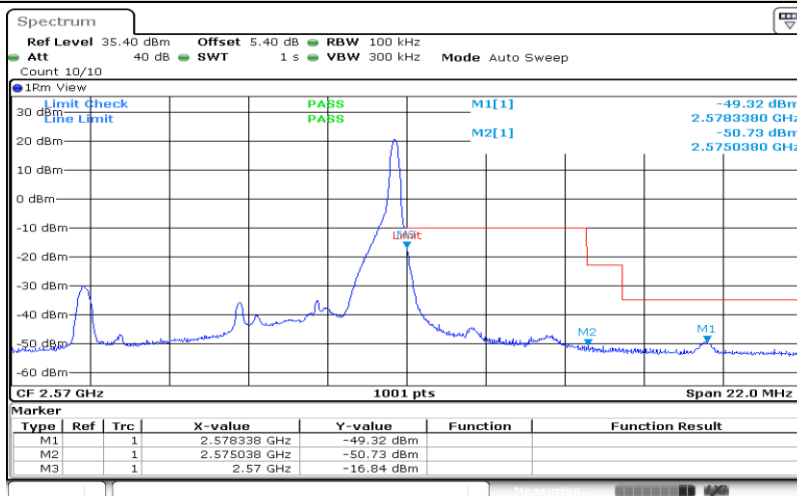
5. Band Edge Compliance

5.1. Test Plots

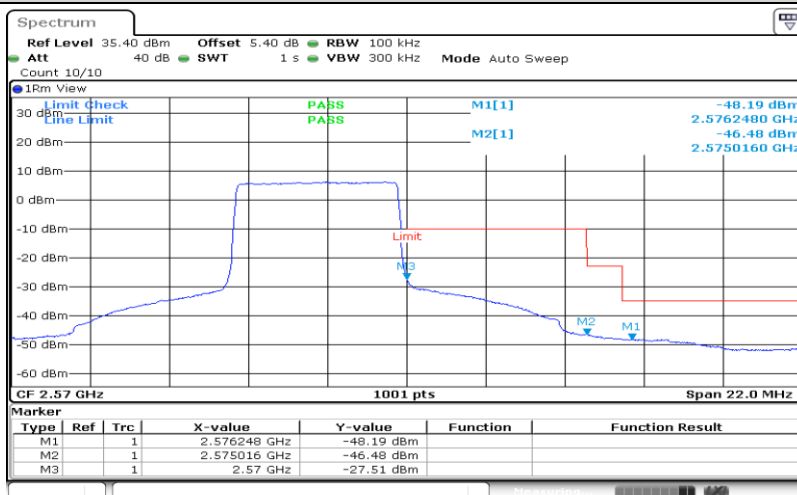




Band7-5MHz-QPSK-21425-1RB#24

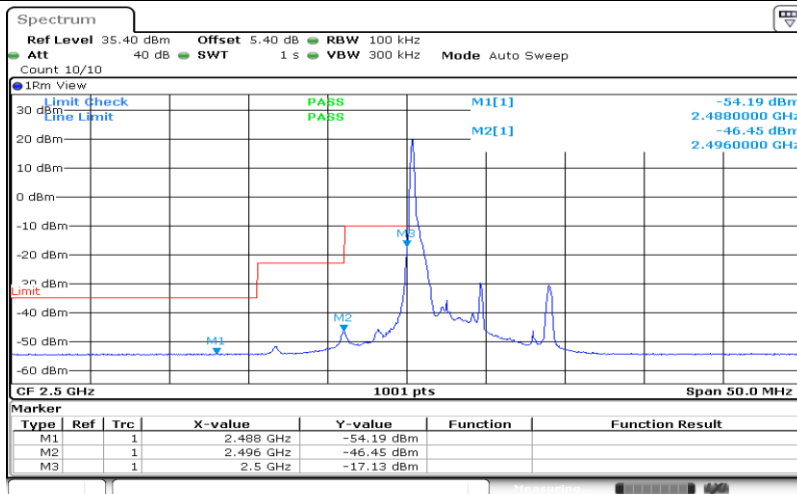


Band7-5MHz-QPSK-21425-25RB#0



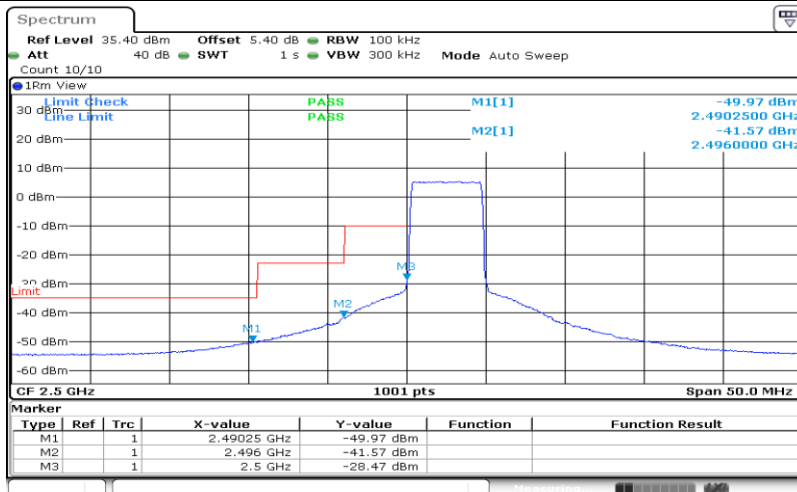


Band7-5MHz-16QAM-20775-1RB#0



Date: 3 JUN 2020 15:49:16

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



Date: 3 JUN 2020 15:50:50



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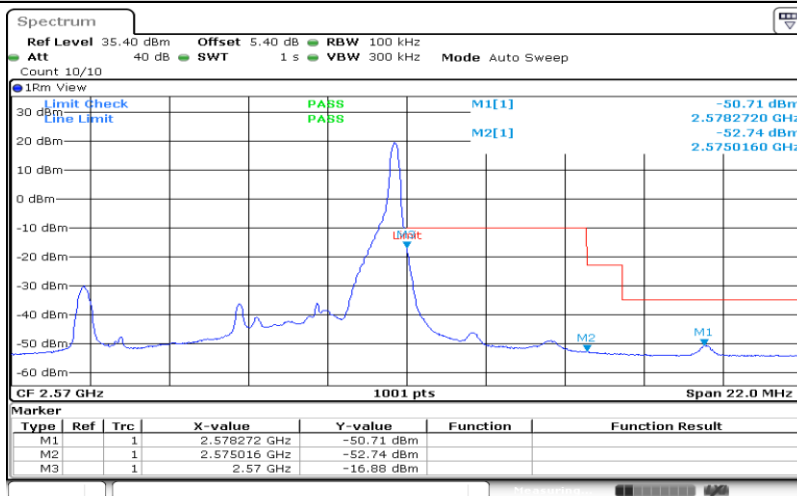
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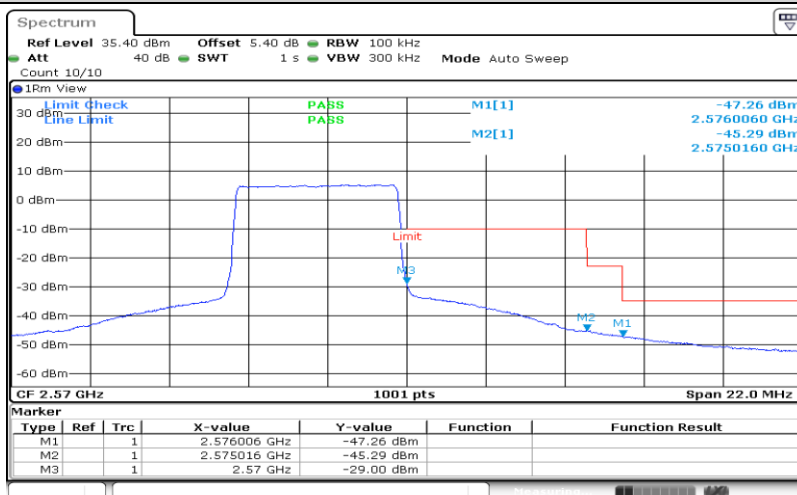
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Band7-5MHz-16QAM-21425-1RB#24



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

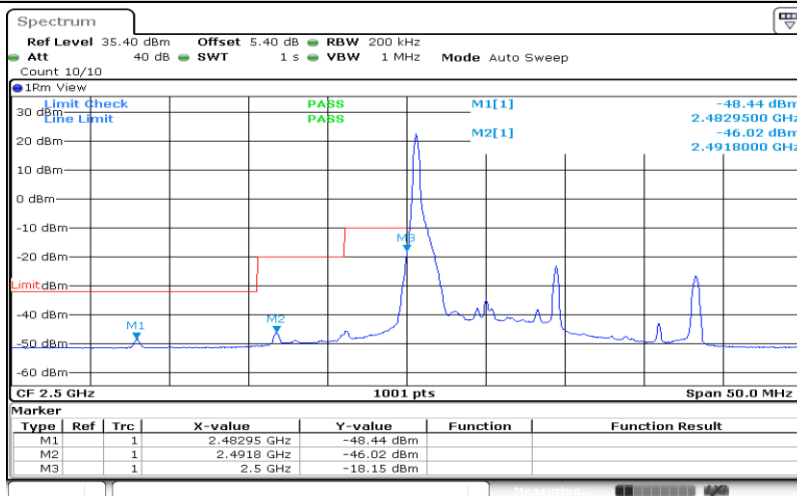


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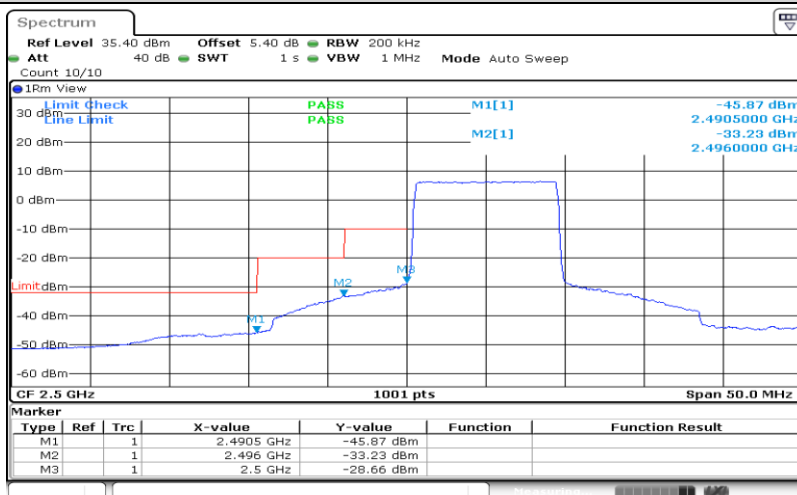


Band7-10MHz-QPSK-20800-1RB#0



Date: 3 JUN 2020 15:52:00

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



Date: 3 JUN 2020 15:53:34



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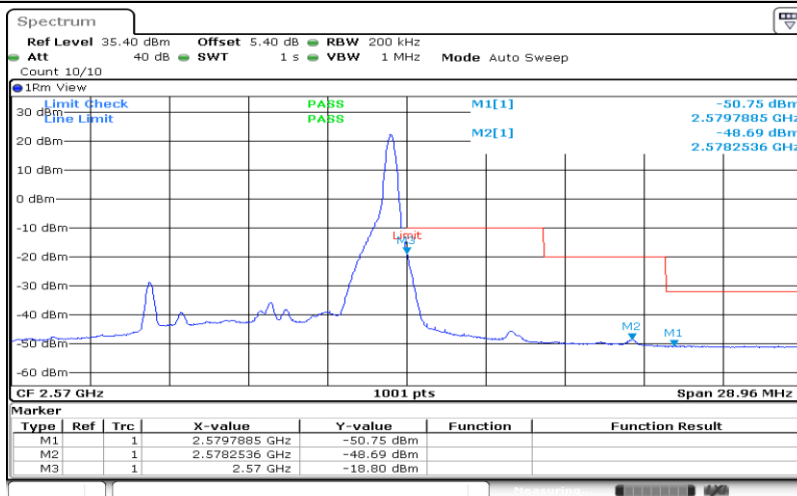
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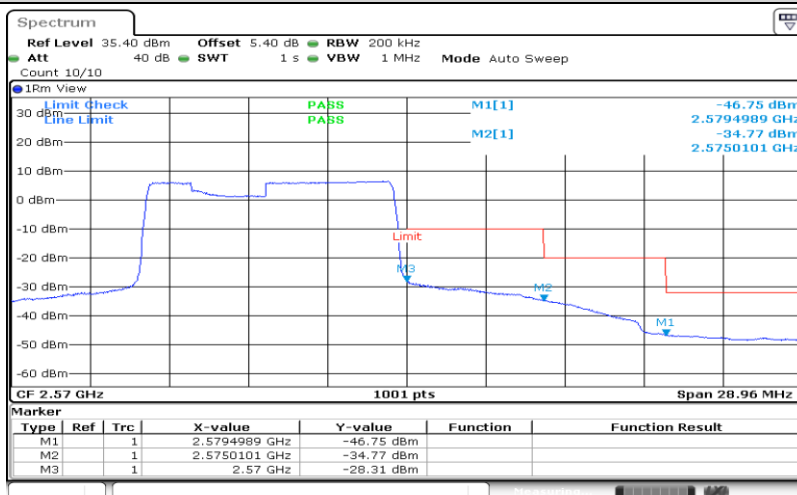


Band7-10MHz-QPSK-21400-1RB#49



Date: 3 JUN 2020 15:52:47

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



Date: 3 JUN 2020 15:54:16

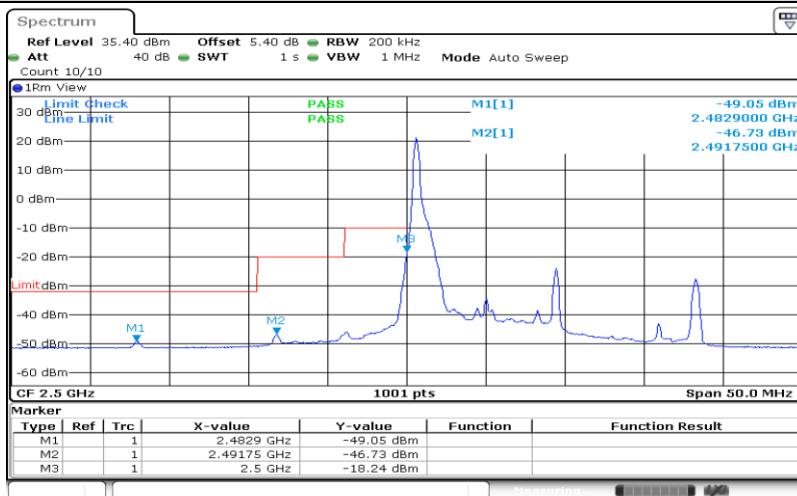


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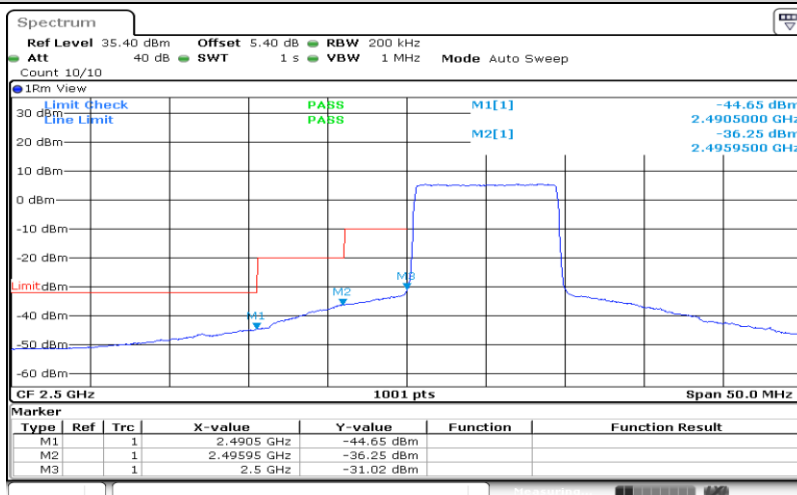


Band7-10MHz-16QAM-20800-1RB#0



Date: 3 JUN 2020 15:52:21

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



Date: 3 JUN 2020 15:53:55



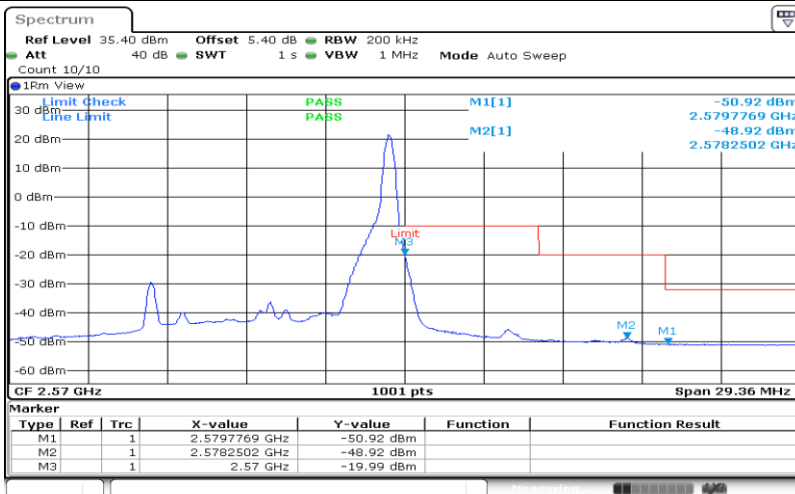
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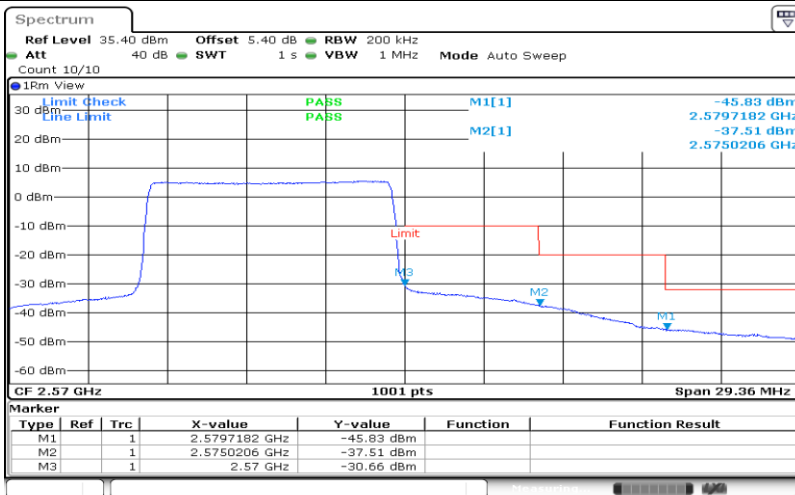
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Band7-10MHz-16QAM-21400-1RB#49

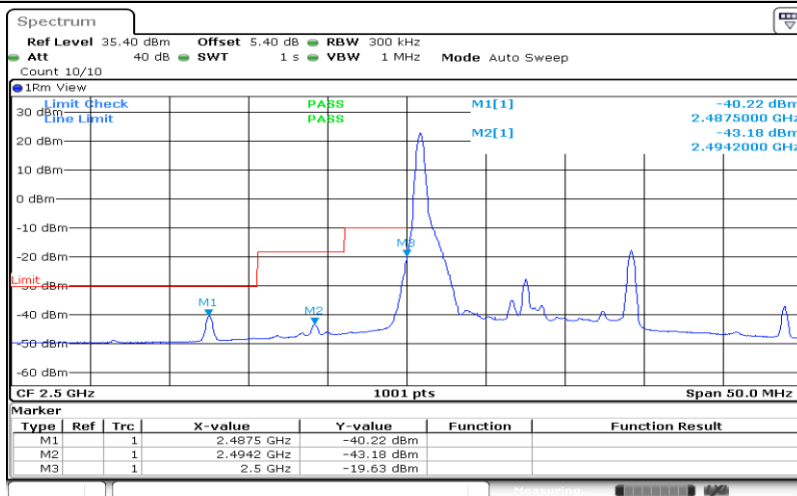


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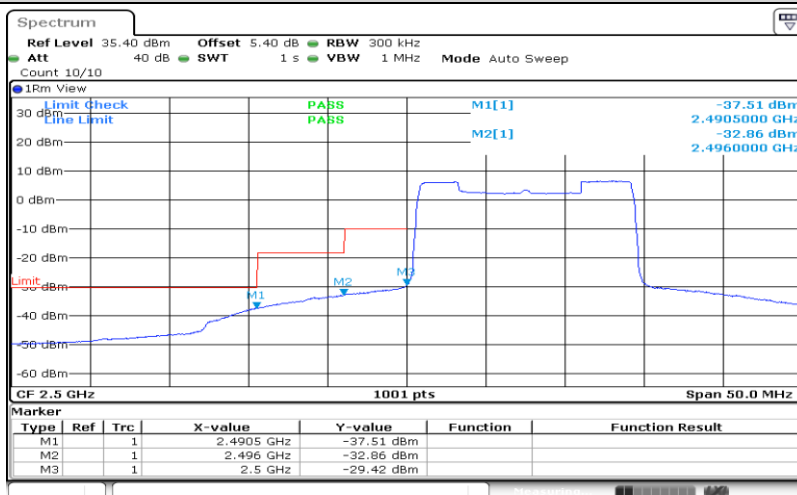


Band7-15MHz-QPSK-20825-1RB#0



Date: 3 JUN 2020 15:55:05

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



Date: 3 JUN 2020 15:56:39

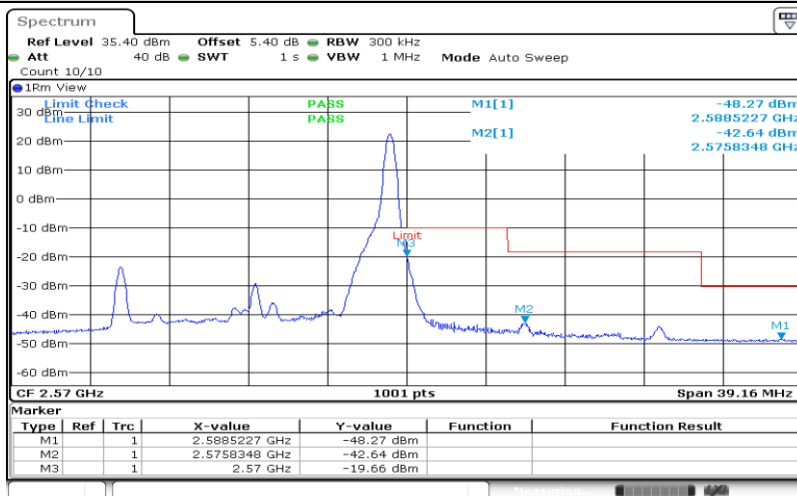


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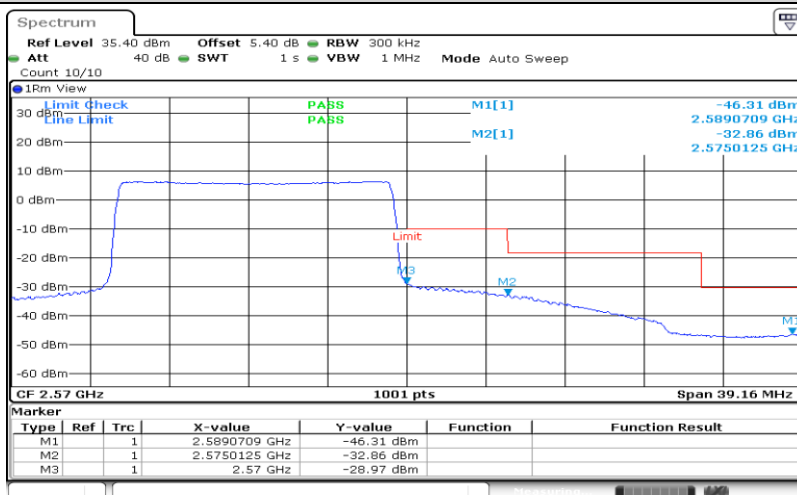


Band7-15MHz-QPSK-21375-1RB#74



Date: 3 JUN 2020 15:55:52

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

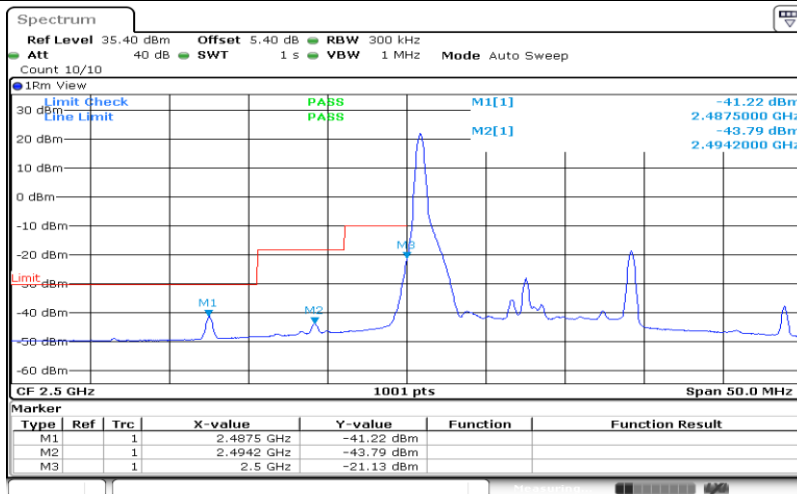


Date: 3 JUN 2020 15:57:22



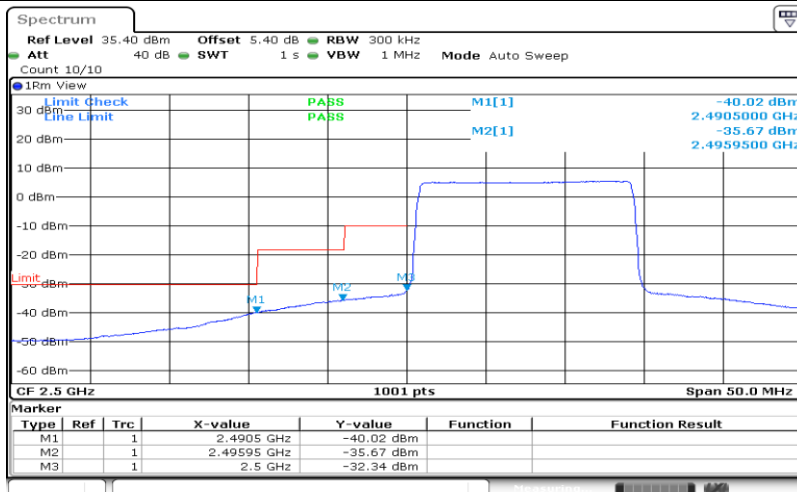


Band7-15MHz-16QAM-20825-1RB#0



Date: 3 JUN 2020 15:55:26

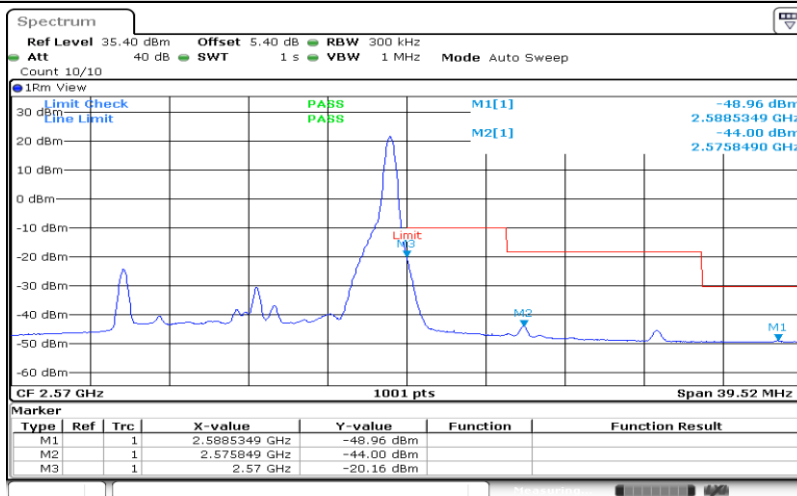
Band7-15MHz-16QAM-20825-75RB#0



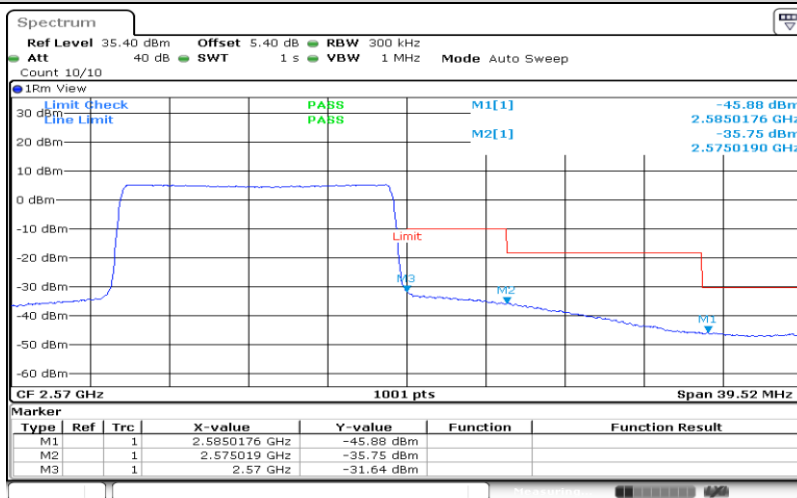
Date: 3 JUN 2020 15:57:00



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

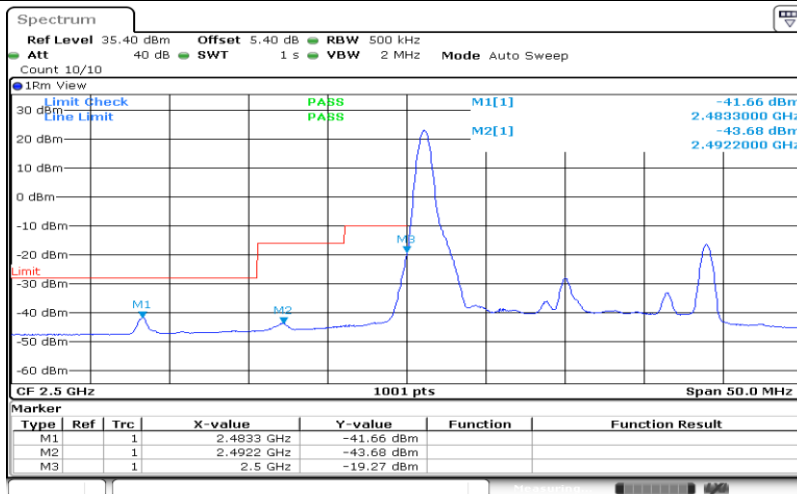


Band7-15MHz-16QAM-21375-75RB#0

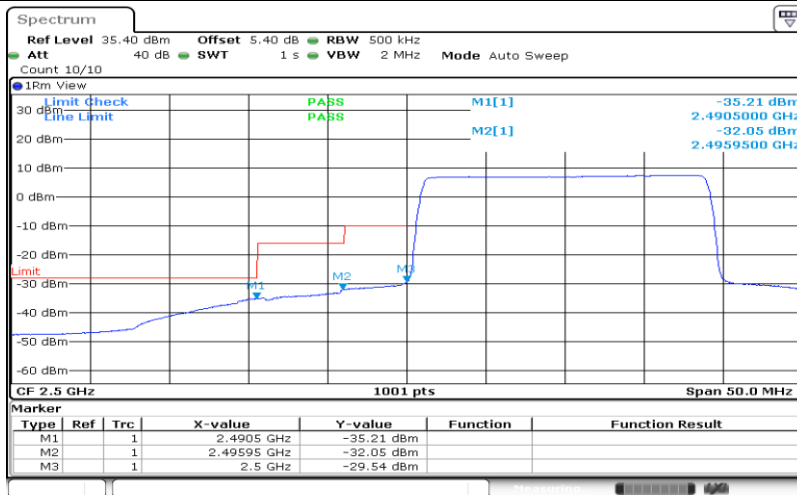




Band7-20MHz-QPSK-20850-1RB#0

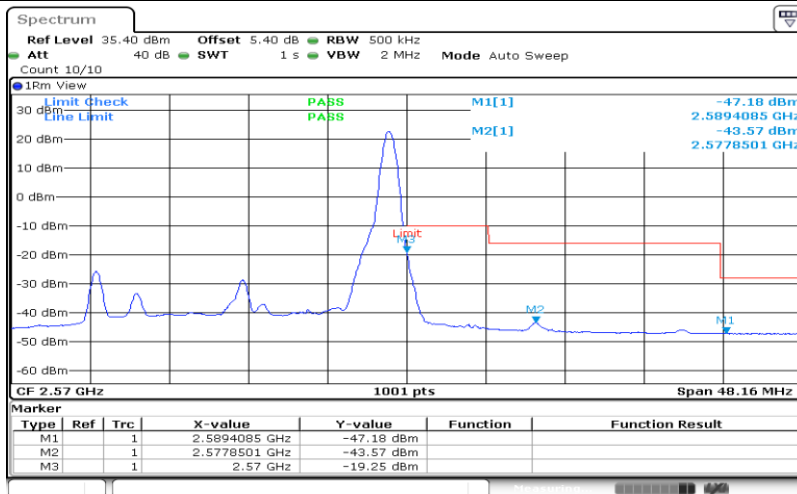


Band7-20MHz-QPSK-20850-100RB#0



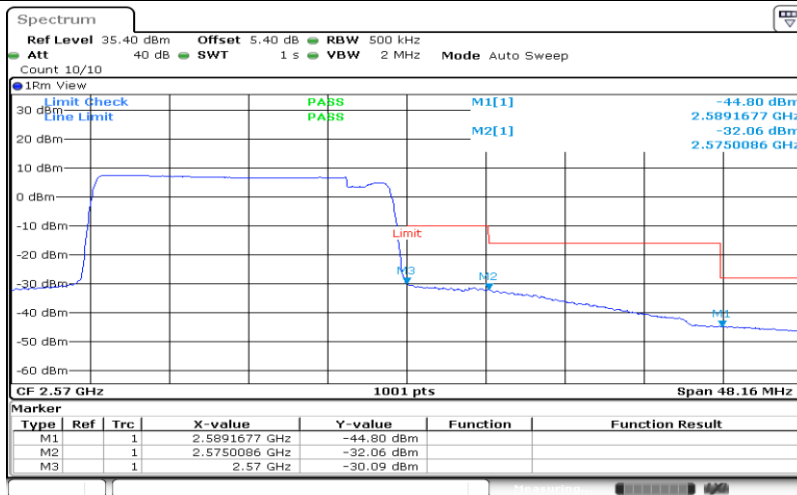


Band7-20MHz-QPSK-21350-1RB#99



Date: 3 JUN 2020 15:58:58

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

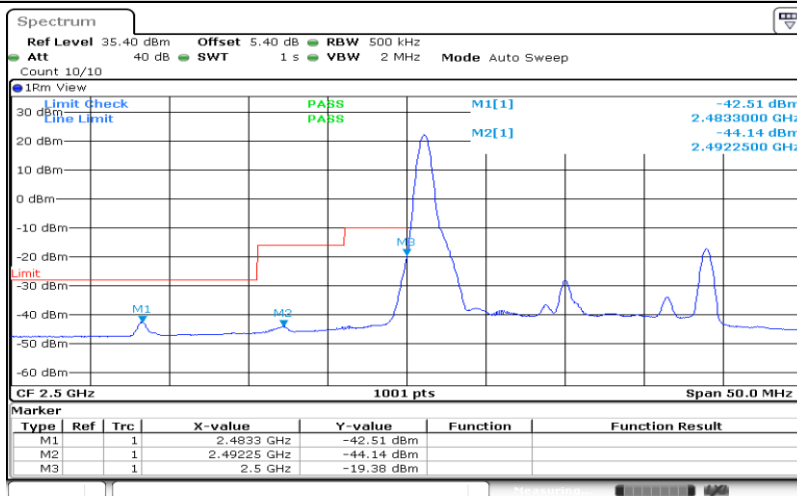


Date: 3 JUN 2020 16:00:28



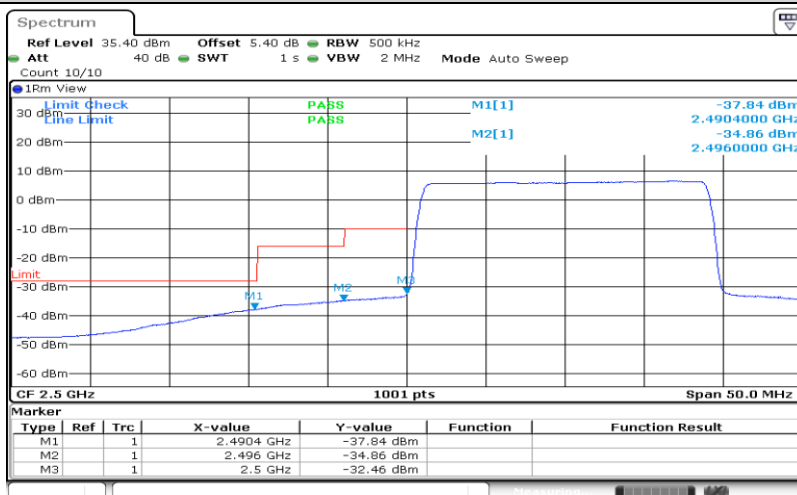


Band7-20MHz-16QAM-20850-1RB#0



Date: 3 JUN 2020 15:58:32

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



Date: 3 JUN 2020 16:00:06



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Shenzhen Branch (CCC Laboratory)

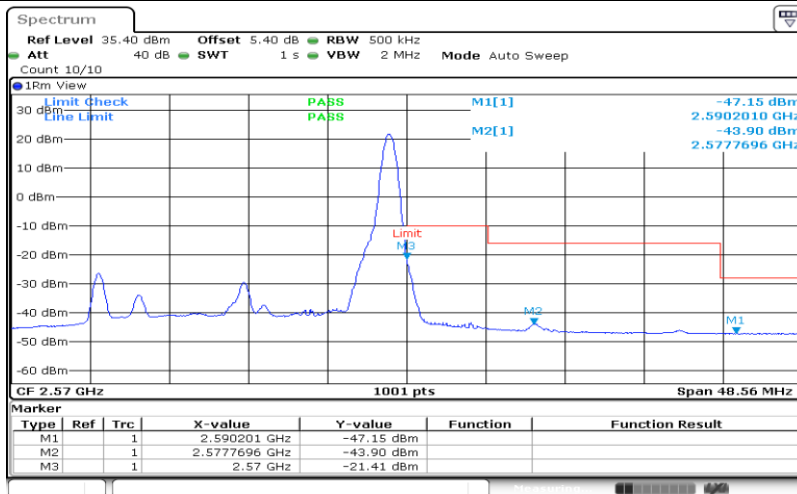
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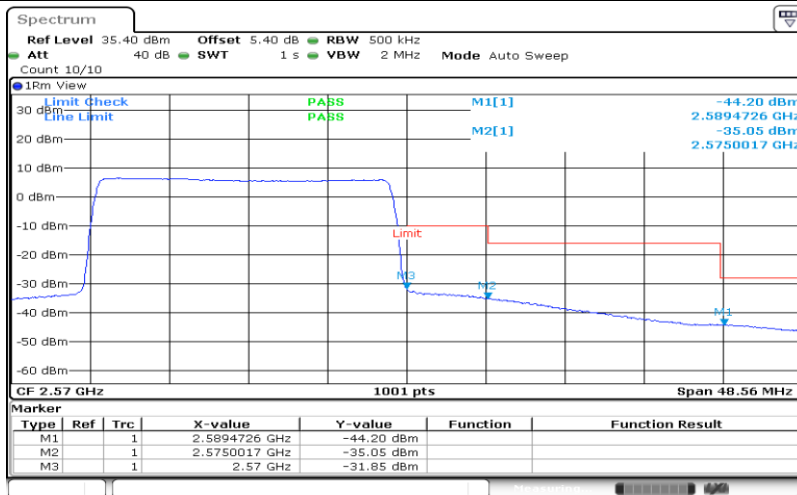
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band7-20MHz-16QAM-21350-1RB#99



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



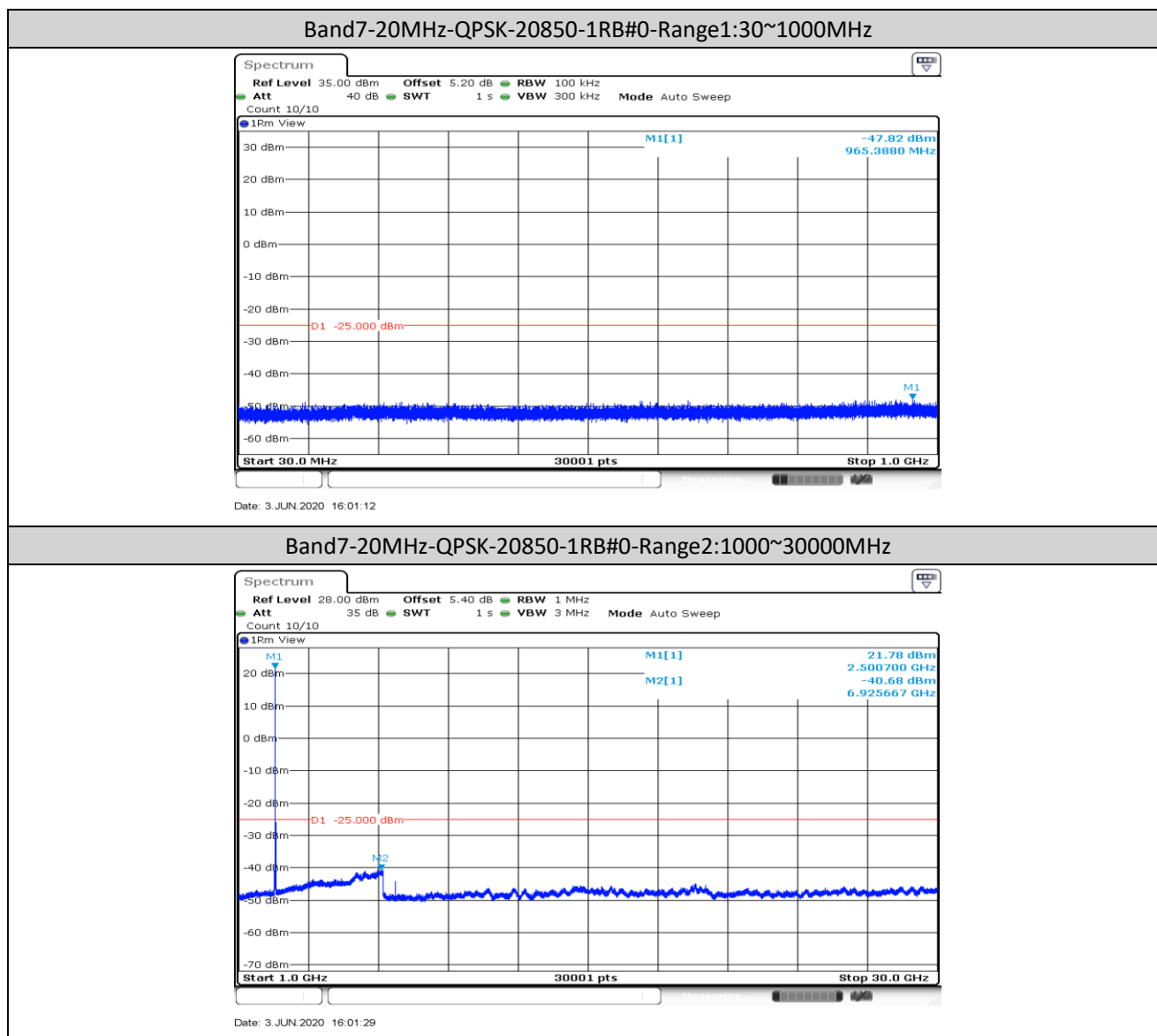


6. Spurious Emission at Antenna Terminal

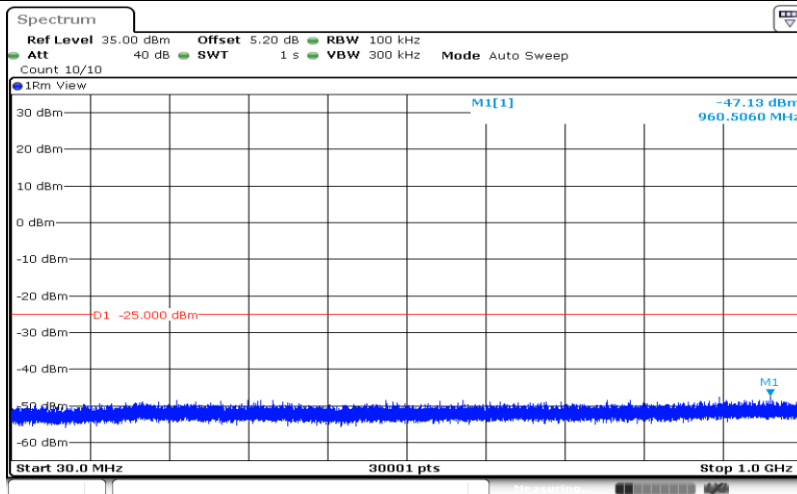
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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

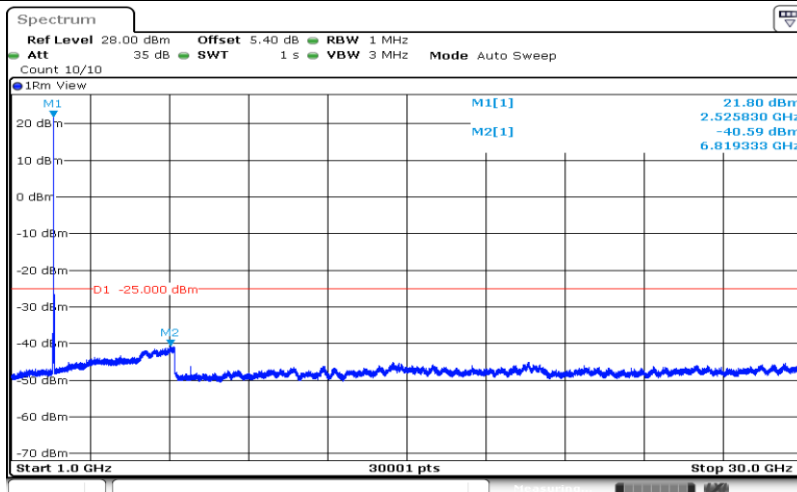


Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:02:23

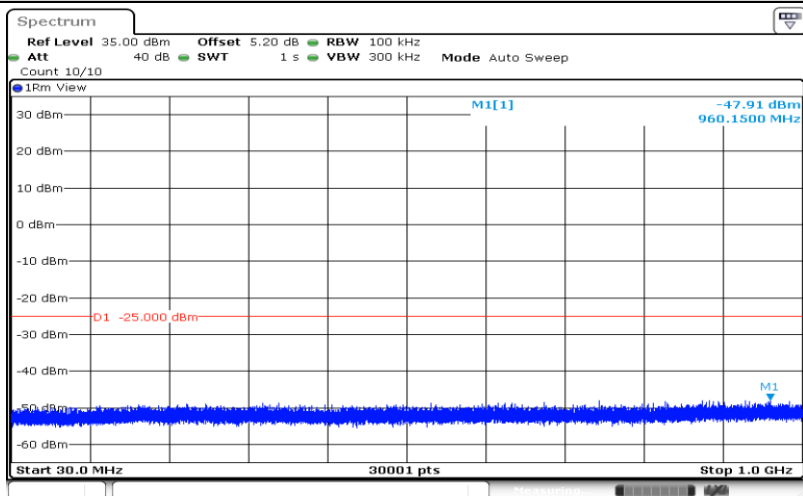
Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:02:39

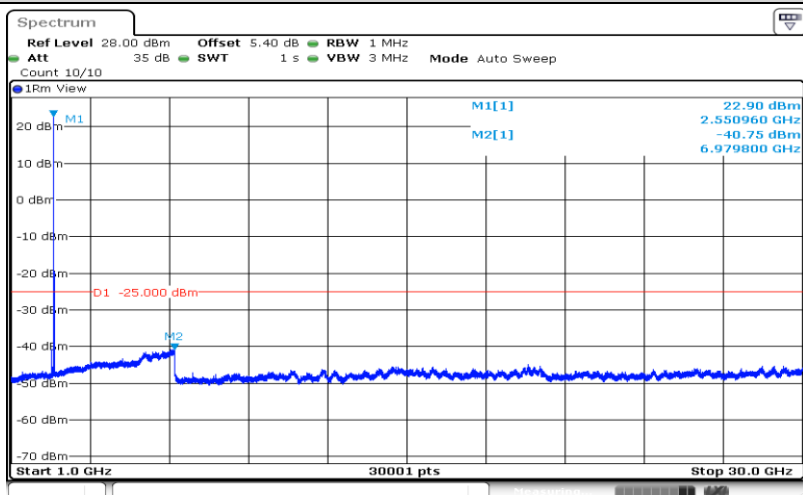


Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:03:34

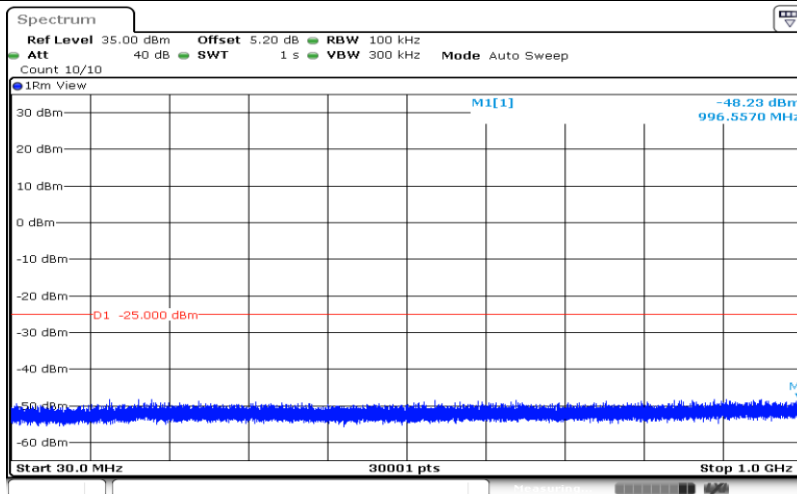
Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:03:50

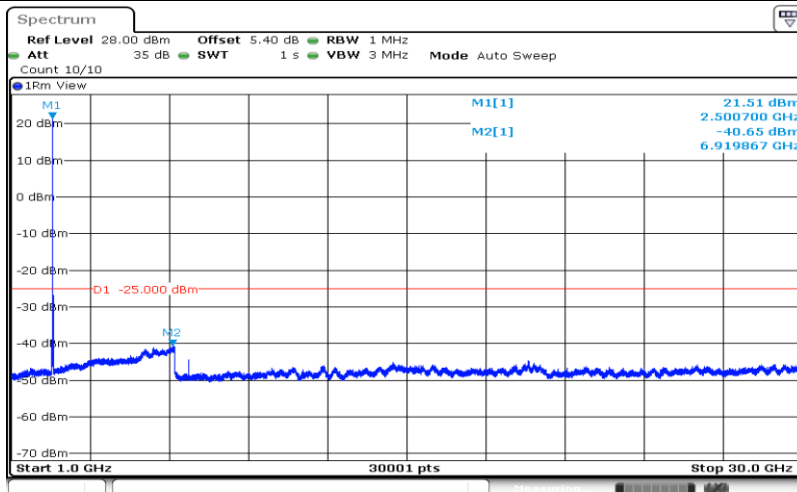


Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:01:48

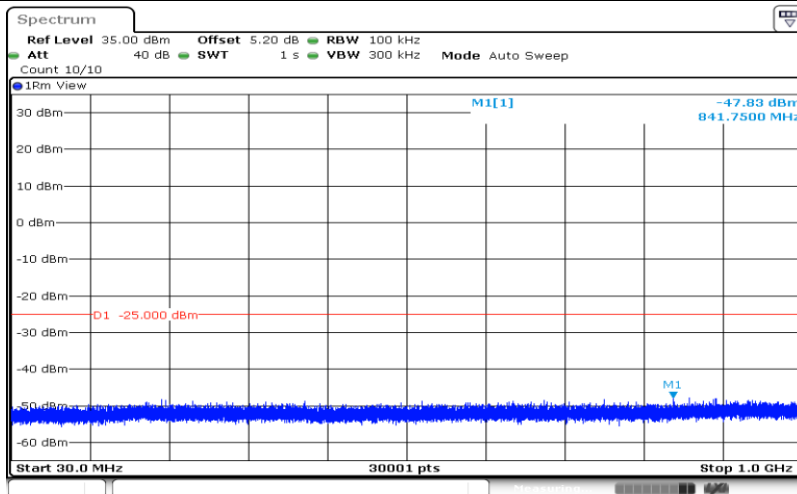
Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:02:04

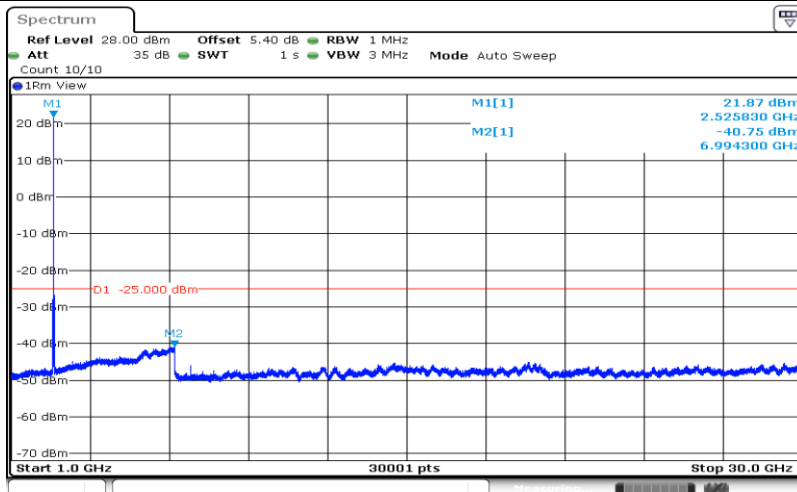


Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:02:58

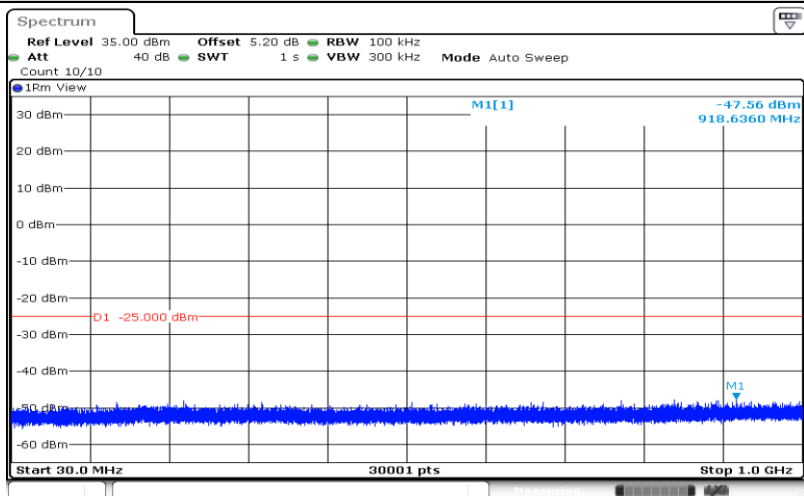
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 3 JUN 2020 16:03:14

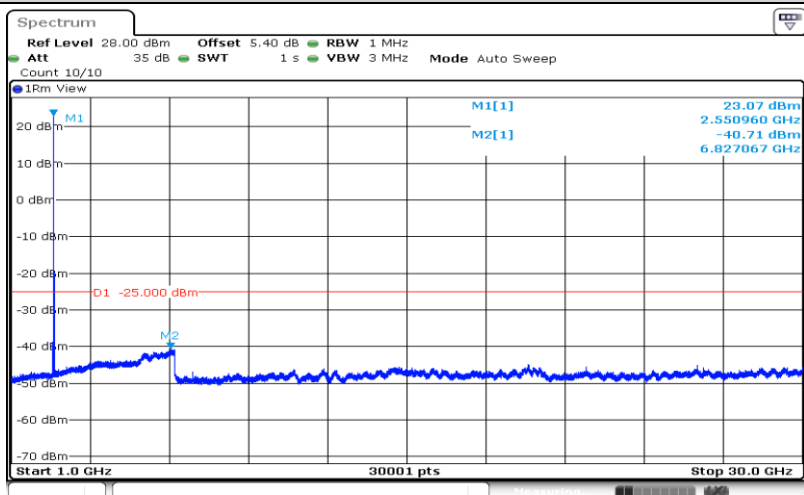


Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Date: 3 JUN 2020 16:04:09

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



Date: 3 JUN 2020 16:04:25





7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.5853	-65.69	-25.00	40.69	Vertical
615.1333	-65.36	-25.00	40.36	Vertical
1728.5457	-45.43	-25.00	20.43	Vertical
7353.7742	-58.23	-25.00	33.23	Vertical
14499.4600	-49.90	-25.00	24.90	Vertical
17933.9974	-43.62	-25.00	18.62	Vertical
40.7675	-65.46	-25.00	40.46	Horizontal
235.3108	-69.68	-25.00	44.68	Horizontal
1819.7640	-44.70	-25.00	19.70	Horizontal
7459.9784	-58.65	-25.00	33.65	Horizontal
16386.5355	-46.10	-25.00	21.10	Horizontal
17999.4000	-47.44	-25.00	22.44	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.3428	-66.88	-25.00	41.88	Vertical
751.7161	-63.37	-25.00	38.37	Vertical
1726.5453	-45.43	-25.00	20.43	Vertical
7908.1963	-58.29	-25.00	33.29	Vertical
14492.2597	-49.64	-25.00	24.64	Vertical
17999.4000	-43.11	-25.00	18.11	Vertical
41.3011	-65.32	-25.00	40.32	Horizontal
235.8443	-68.73	-25.00	43.73	Horizontal
1800.5601	-44.39	-25.00	19.39	Horizontal
7474.9790	-58.67	-25.00	33.67	Horizontal
16386.5355	-46.26	-25.00	21.26	Horizontal
17998.8000	-47.53	-25.00	22.53	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.9805	-65.56	-25.00	40.56	Vertical
669.1165	-64.50	-25.00	39.50	Vertical
1718.9438	-45.49	-25.00	20.49	Vertical
7354.9742	-57.81	-25.00	32.81	Vertical
14519.2608	-50.09	-25.00	25.09	Vertical
17998.8000	-43.02	-25.00	18.02	Vertical
44.0657	-65.19	-25.00	40.19	Horizontal
238.6089	-68.93	-25.00	43.93	Horizontal
1803.3607	-44.71	-25.00	19.71	Horizontal
7405.9762	-58.90	-25.00	33.90	Horizontal
16384.7354	-46.01	-25.00	21.01	Horizontal
17987.9995	-47.70	-25.00	22.70	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.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth h	Modulation	Channel	RB Configur e	Voltage [Vdc]	Tempe rature (°C)	Deviation n (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-10.20	-0.004064	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	0.60	0.000239	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-7.20	-0.002840	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-5.10	-0.002012	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	2.70	0.001065	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-16.40	-0.006406	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-11.70	-0.004570	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-10.60	-0.004141	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VL	NT	-10.50	-0.004183	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VN	NT	-14.50	-0.005777	±2.5	PASS
Band7	20MHz	64QAM	20850	100RB#0	VH	NT	0.20	0.000080	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VL	NT	-13.40	-0.005286	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VN	NT	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	64QAM	21100	100RB#0	VH	NT	-8.70	-0.003432	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VL	NT	-14.80	-0.005781	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VN	NT	1.40	0.000547	±2.5	PASS
Band7	20MHz	64QAM	21350	100RB#0	VH	NT	-11.70	-0.004570	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-8.70	-0.003466	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-4.40	-0.001753	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-3.50	-0.001394	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-13.20	-0.005207	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	3.50	0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	1.40	0.000552	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-3.80	-0.001484	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-6.60	-0.002578	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	0.20	0.000078	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth h	Modulation	Channel l	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-11.50	-0.004582	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	5.70	0.002271	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	4.80	0.001912	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-11.20	-0.004462	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-1.10	-0.000438	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	0.70	0.000279	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	6.00	0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.80	0.000717	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	7.80	0.003077	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.80	-0.000316	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-11.60	-0.004576	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	4.30	0.001696	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-0.40	-0.000158	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-7.00	-0.002761	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-4.40	-0.001736	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-11.70	-0.004570	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-3.20	-0.001250	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-9.80	-0.003828	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-3.20	-0.001250	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	2.60	0.001016	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-8.90	-0.003477	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	0.40	0.000156	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-5.50	-0.002191	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-7.50	-0.002988	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-12.10	-0.004821	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-6.90	-0.002749	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-8.60	-0.003426	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-1.60	-0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-8.90	-0.003546	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-7.30	-0.002908	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-10.10	-0.003984	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-6.70	-0.002643	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-8.40	-0.003314	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-16.60	-0.006548	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-14.70	-0.005799	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-14.50	-0.005720	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-1.00	-0.000394	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-15.90	-0.006211	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-10.40	-0.004063	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	10	5.90	0.002305	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-15.40	-0.006016	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-7.30	-0.002852	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	1.00	0.000391	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-1.90	-0.000742	±2.5	PASS



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