

Appendix B

E-UTRA Band 7



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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER	3
1.1. TEST RESULT	3
2. PEAK-TO-AVERAGE RATIO (CCDF).....	9
2.1. TEST RESULT	9
2.2. TEST PLOTS.....	9
3. MODULATION CHARACTERISTICS	13
3.1. TEST MODE = LTE /TM1 20MHZ	13
3.1.1. TEST CHANNEL = MCH	13
3.2. TEST MODE = LTE /TM2 20MHZ	14
3.2.1. TEST CHANNEL = MCH	14
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	15
4.1. TEST RESULT	15
4.2. TEST PLOTS.....	16
5. BAND EDGE COMPLIANCE	28
5.1. TEST RESULT	28
5.2. TEST PLOTS.....	29
6. SPURIOUS EMISSION AT ANTENNA TERMINAL	45
6.1. TEST PLOTS.....	45
7. FIELD STRENGTH OF SPURIOUS RADIATION	52
7.1. TEST MODE =LTE/TM1 20MHZ	52
7.1.1. TEST CHANNEL = LCH	52
7.1.2. TEST CHANNEL = MCH	52
7.1.3. TEST CHANNEL = HCH	53
8. FREQUENCY STABILITY	54
8.1. FREQUENCY VS VOLTAGE.....	54
8.2. FREQUENCY VS TEMPERATURE.....	54



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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	22.58	24.88	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.25	24.55	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.28	24.58	33	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.75	25.05	33	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.70	25.00	33	PASS
Band7	5MHz	QPSK	20775	12RB#0	23.05	25.35	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.71	24.01	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.96	25.26	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.01	25.31	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.38	24.68	33	PASS
Band7	5MHz	QPSK	21100	12RB#13	23.37	25.67	33	PASS
Band7	5MHz	QPSK	21100	12RB#6	23.17	25.47	33	PASS
Band7	5MHz	QPSK	21100	12RB#0	23.09	25.39	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.39	24.69	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.60	24.90	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.27	25.57	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.81	25.11	33	PASS
Band7	5MHz	QPSK	21425	12RB#0	23.20	25.50	33	PASS
Band7	5MHz	QPSK	21425	12RB#6	23.12	25.42	33	PASS
Band7	5MHz	QPSK	21425	12RB#13	23.10	25.40	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.20	24.50	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.95	24.25	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.67	23.97	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.60	23.90	33	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.93	24.23	33	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.15	24.45	33	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.96	24.26	33	PASS



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Band7	5MHz	16QAM	20775	25RB#0	20.89	23.19	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.43	24.73	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.69	23.99	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.24	24.54	33	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.16	24.46	33	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.28	24.58	33	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.50	24.80	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.46	23.76	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.05	24.35	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.07	24.37	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.57	24.87	33	PASS
Band7	5MHz	16QAM	21425	12RB#0	22.37	24.67	33	PASS
Band7	5MHz	16QAM	21425	12RB#13	22.37	24.67	33	PASS
Band7	5MHz	16QAM	21425	12RB#6	22.31	24.61	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.40	23.70	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.57	23.87	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.32	24.62	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.17	25.47	33	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.46	24.76	33	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.99	25.29	33	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.35	24.65	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.60	23.90	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.50	25.80	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.69	24.99	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.37	25.67	33	PASS
Band7	10MHz	QPSK	21100	25RB#12	23.70	26.00	33	PASS
Band7	10MHz	QPSK	21100	25RB#0	23.03	25.33	33	PASS
Band7	10MHz	QPSK	21100	25RB#25	23.56	25.86	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.67	24.97	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.30	25.60	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.28	25.58	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.88	25.18	33	PASS
Band7	10MHz	QPSK	21400	25RB#0	23.38	25.68	33	PASS



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Band7	10MHz	QPSK	21400	25RB#12	23.37	25.67	33	PASS
Band7	10MHz	QPSK	21400	25RB#25	23.61	25.91	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.56	24.86	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.95	23.25	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.52	24.82	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.77	24.07	33	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.71	24.01	33	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.55	23.85	33	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.12	24.42	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.21	23.51	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.88	25.18	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.86	24.16	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.79	25.09	33	PASS
Band7	10MHz	16QAM	21100	25RB#25	22.73	25.03	33	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.80	25.10	33	PASS
Band7	10MHz	16QAM	21100	25RB#0	22.01	24.31	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.98	24.28	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.61	24.91	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.34	24.64	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.45	24.75	33	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.83	25.13	33	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.60	24.90	33	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.33	24.63	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.93	24.23	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.55	25.85	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.80	24.10	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.41	23.71	33	PASS
Band7	15MHz	QPSK	20825	36RB#0	23.16	25.46	33	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.23	24.53	33	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.34	24.64	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.35	23.65	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.49	24.79	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.68	25.98	33	PASS



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Band7	15MHz	QPSK	21100	1RB#74	23.29	25.59	33	PASS
Band7	15MHz	QPSK	21100	36RB#18	23.57	25.87	33	PASS
Band7	15MHz	QPSK	21100	36RB#0	23.35	25.65	33	PASS
Band7	15MHz	QPSK	21100	36RB#39	23.86	26.16	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.66	24.96	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.17	25.47	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.23	25.53	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.08	25.38	33	PASS
Band7	15MHz	QPSK	21375	36RB#0	23.85	26.15	33	PASS
Band7	15MHz	QPSK	21375	36RB#18	23.81	26.11	33	PASS
Band7	15MHz	QPSK	21375	36RB#39	23.98	26.28	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.38	24.68	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.33	23.63	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.72	23.02	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.99	25.29	33	PASS
Band7	15MHz	16QAM	20825	36RB#0	22.37	24.67	33	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.44	23.74	33	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.52	23.82	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.60	23.90	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.72	24.02	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.11	25.41	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.81	25.11	33	PASS
Band7	15MHz	16QAM	21100	36RB#39	23.04	25.34	33	PASS
Band7	15MHz	16QAM	21100	36RB#0	22.32	24.62	33	PASS
Band7	15MHz	16QAM	21100	36RB#18	22.73	25.03	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	22.38	24.68	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.64	24.94	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.54	24.84	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.40	24.70	33	PASS
Band7	15MHz	16QAM	21375	36RB#0	22.72	25.02	33	PASS
Band7	15MHz	16QAM	21375	36RB#18	22.95	25.25	33	PASS
Band7	15MHz	16QAM	21375	36RB#39	23.20	25.50	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.38	24.68	33	PASS



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Band7	20MHz	QPSK	20850	1RB#99	21.57	23.87	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.76	24.06	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.50	25.80	33	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.88	25.18	33	PASS
Band7	20MHz	QPSK	20850	50RB#25	23.16	25.46	33	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.05	24.35	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.08	23.38	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.51	24.81	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.36	25.66	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.86	26.16	33	PASS
Band7	20MHz	QPSK	21100	50RB#0	23.82	26.12	33	PASS
Band7	20MHz	QPSK	21100	50RB#25	24.10	26.40	33	PASS
Band7	20MHz	QPSK	21100	50RB#50	23.71	26.01	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.43	24.73	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.11	25.41	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.23	25.53	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.81	25.11	33	PASS
Band7	20MHz	QPSK	21350	50RB#25	24.56	26.86	33	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.08	25.38	33	PASS
Band7	20MHz	QPSK	21350	50RB#50	24.12	26.42	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.99	24.29	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.21	23.51	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.76	23.06	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.88	25.18	33	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.80	24.10	33	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.99	24.29	33	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.95	24.25	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.83	24.13	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.73	24.03	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.78	25.08	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.21	25.51	33	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.82	24.12	33	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.83	24.13	33	PASS



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Band7	20MHz	16QAM	21100	50RB#0	21.84	24.14	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.84	24.14	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.40	24.70	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.61	24.91	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.21	24.51	33	PASS
Band7	20MHz	16QAM	21350	50RB#25	22.20	24.50	33	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.17	24.47	33	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.20	24.50	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	22.18	24.48	33	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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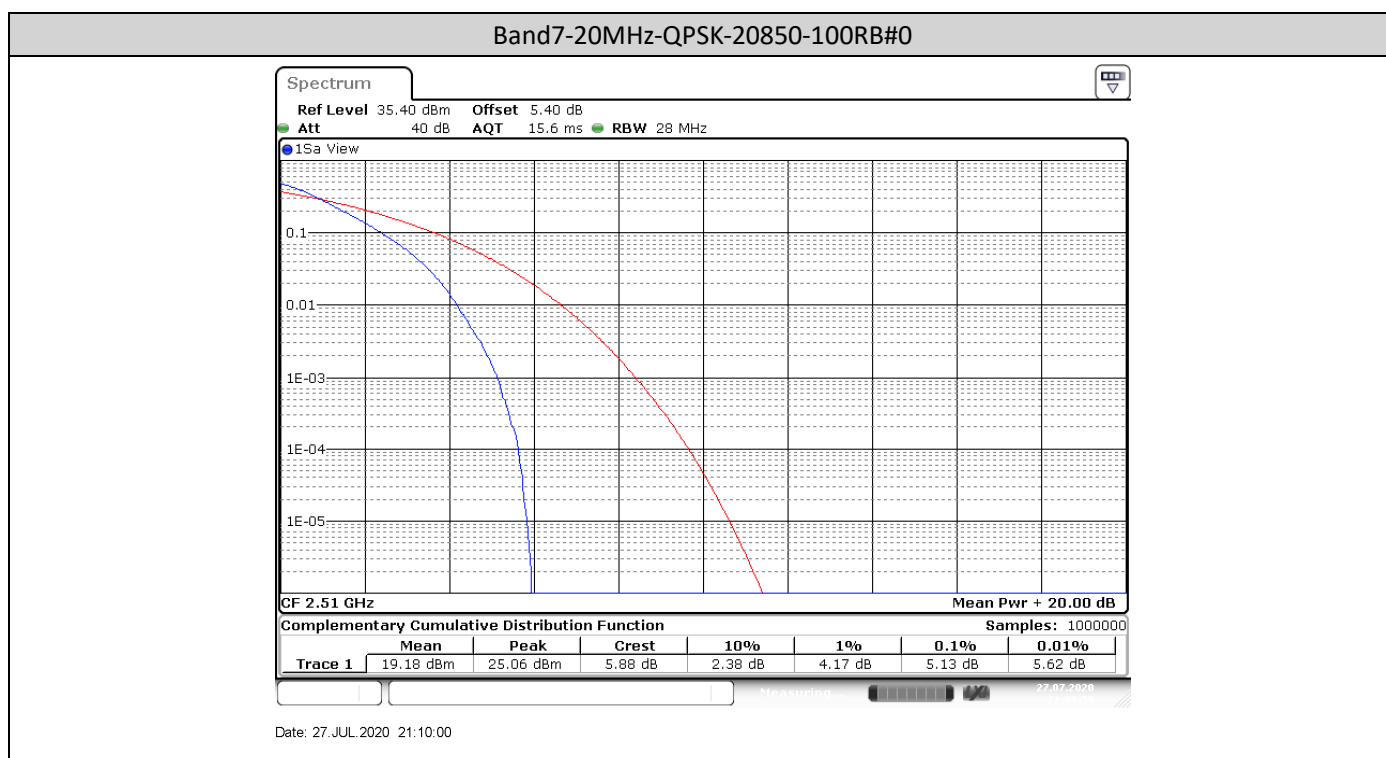


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

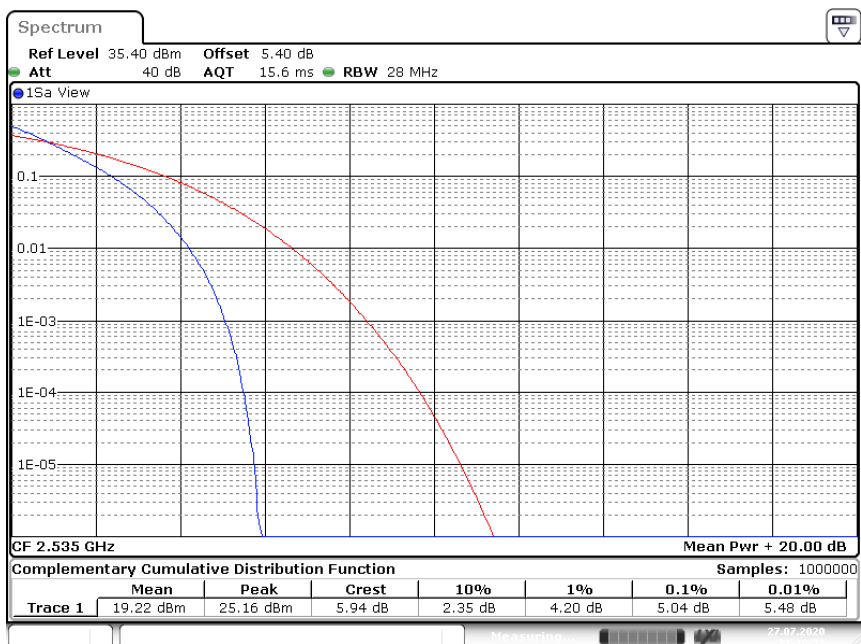
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.13	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.04	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.81	13	PASS
Band7	20MHz	16QAM	20850	32RB#0	5.62	13	PASS
Band7	20MHz	16QAM	21100	32RB#0	6.43	13	PASS
Band7	20MHz	16QAM	21350	32RB#0	5.91	13	PASS

2.2. Test Plots



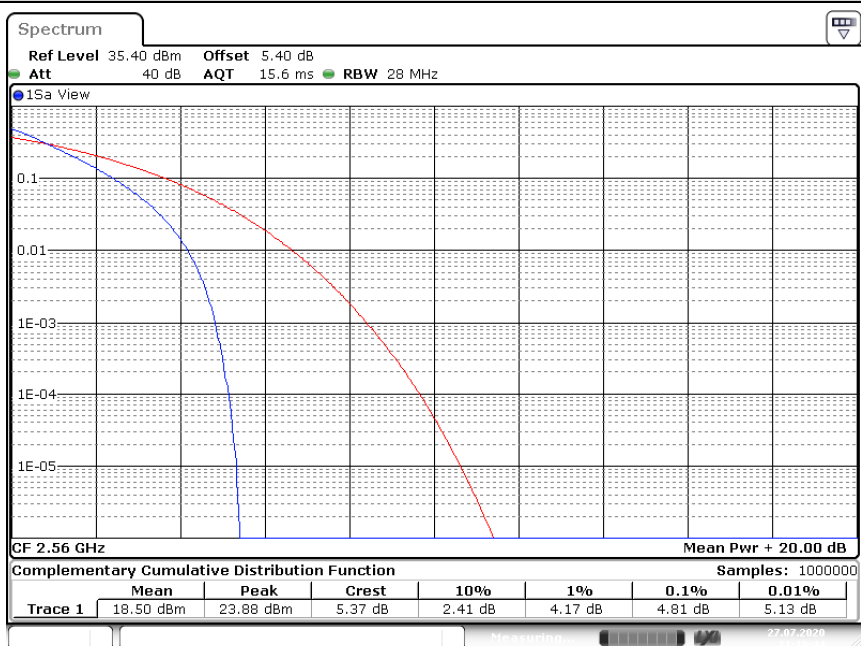


Band7-20MHz-QPSK-21100-100RB#0



Date: 27.JUL.2020 21:10:22

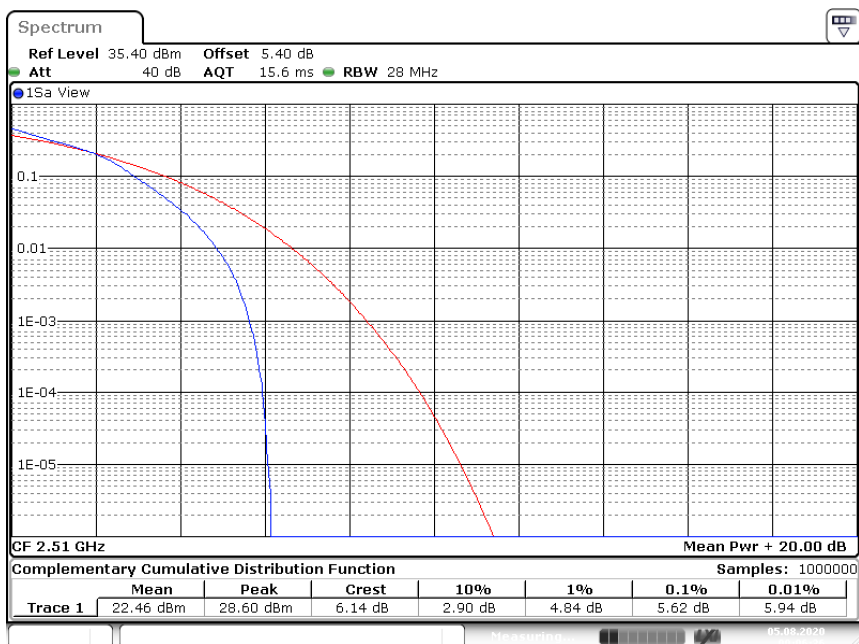
Band7-20MHz-QPSK-21350-100RB#0



Date: 27.JUL.2020 21:10:45

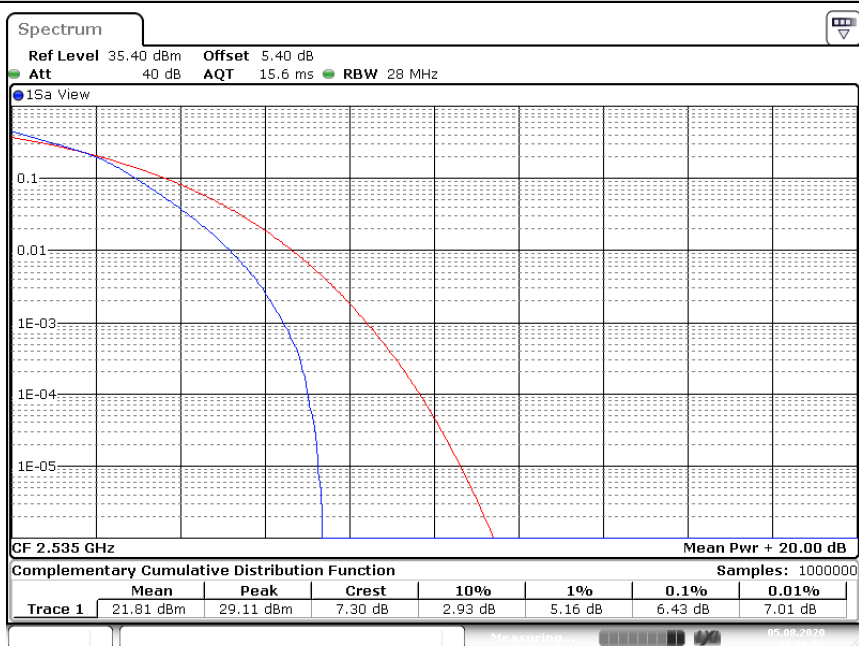


Band7-20MHz-16QAM-20850-32RB#0



Date: 5.AUG.2020 09:06:35

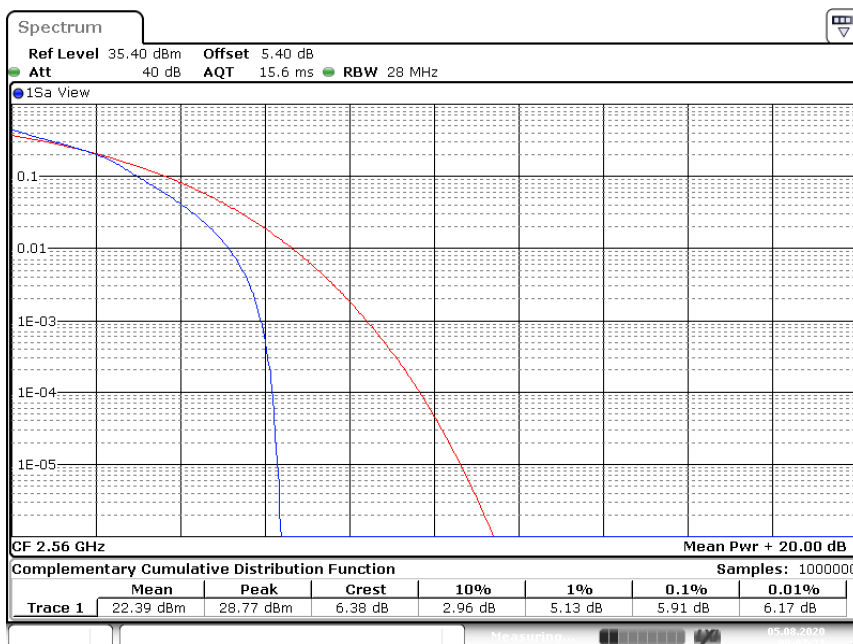
Band7-20MHz-16QAM-21100-32RB#0



Date: 5.AUG.2020 09:06:59



Band7-20MHz-16QAM-21350-32RB#0



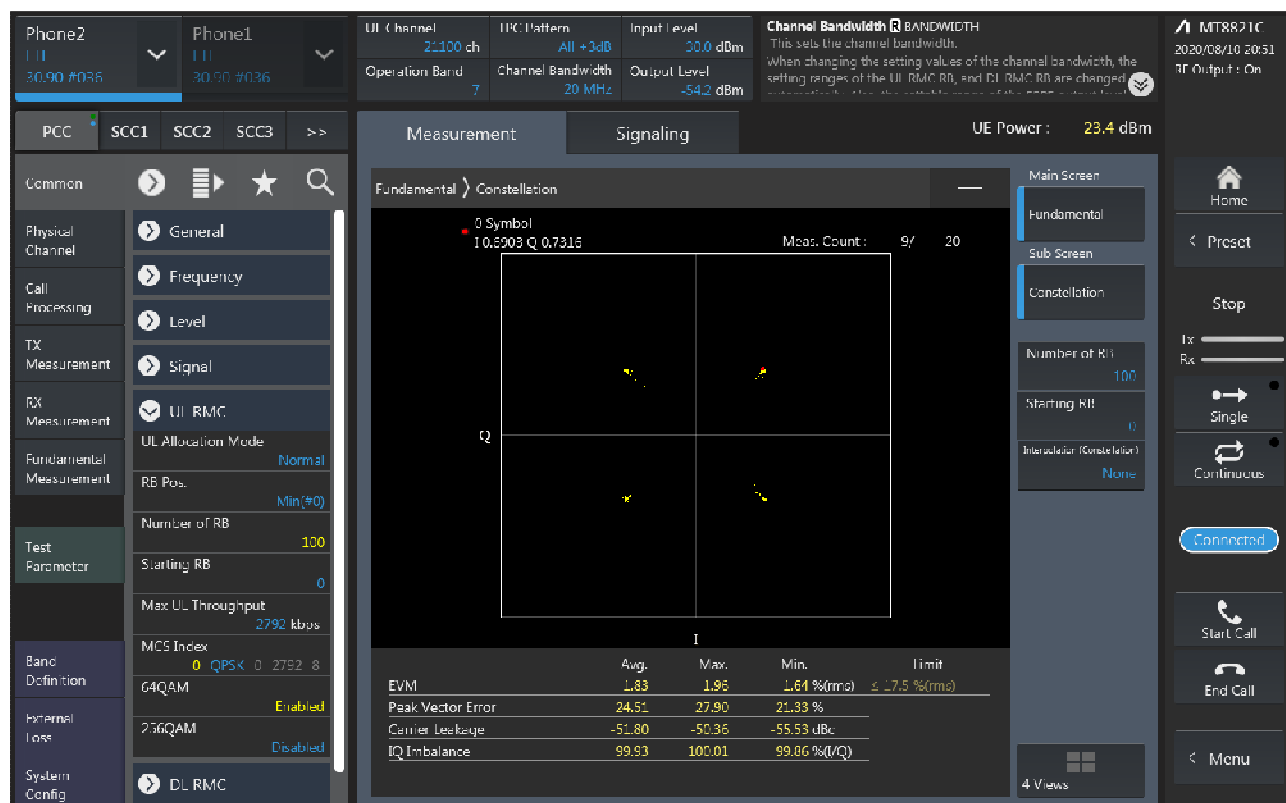
Date: 5.AUG.2020 09:07:21



3. Modulation Characteristics

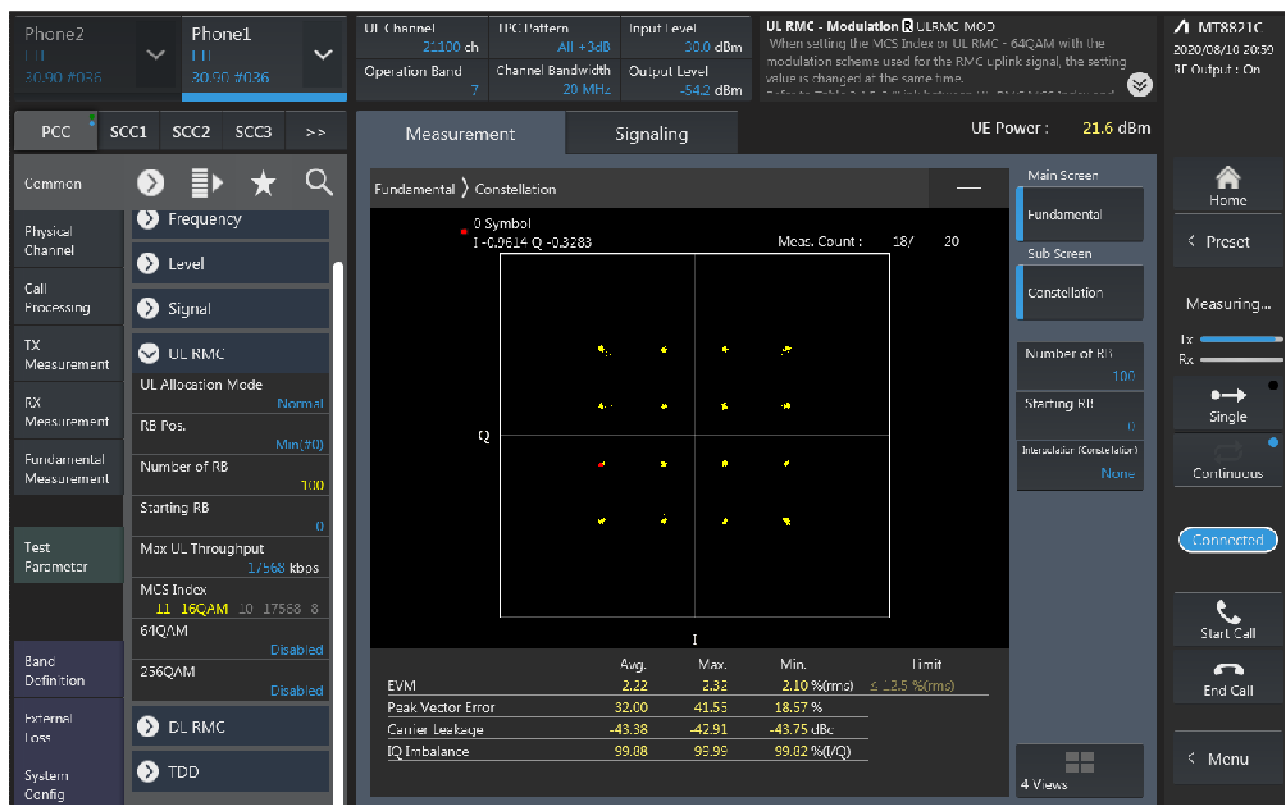
3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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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	4.456	5.010	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.456	5.030	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.456	5.040	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.446	5.000	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.446	4.970	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.456	4.980	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.871	9.580	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.891	9.560	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.580	PASS
Band7	10MHz	16QAM	20800	32RB#0	5.774	7.420	PASS
Band7	10MHz	16QAM	21100	32RB#0	5.794	7.480	PASS
Band7	10MHz	16QAM	21400	32RB#0	5.794	8.040	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.516	16.350	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.546	16.680	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.546	16.620	PASS
Band7	15MHz	16QAM	20825	32RB#0	6.503	11.430	PASS
Band7	15MHz	16QAM	21100	32RB#0	6.773	11.100	PASS
Band7	15MHz	16QAM	21375	32RB#0	6.743	12.210	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.942	21.120	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.902	21.040	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.982	21.120	PASS
Band7	20MHz	16QAM	20850	32RB#0	6.633	11.280	PASS
Band7	20MHz	16QAM	21100	32RB#0	7.153	11.320	PASS
Band7	20MHz	16QAM	21350	32RB#0	6.953	11.400	PASS



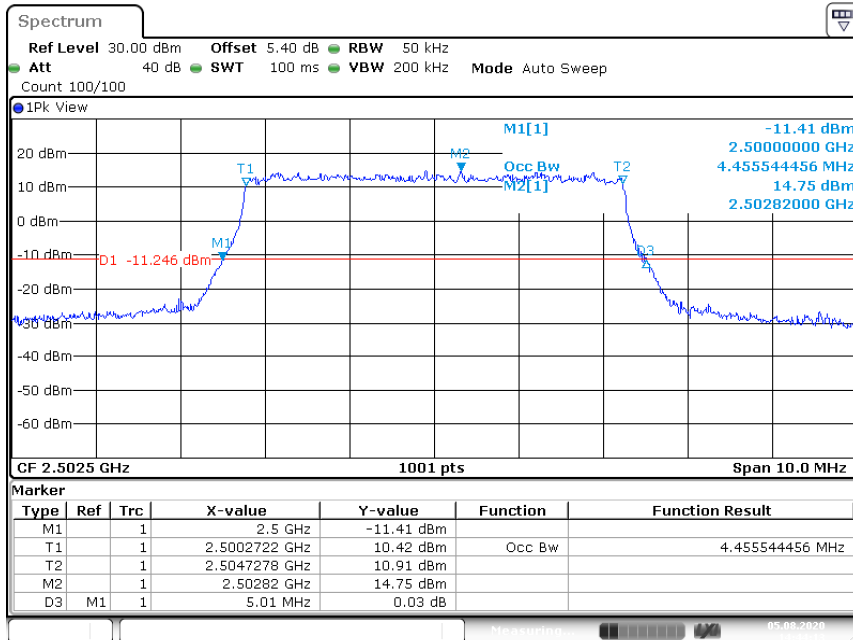
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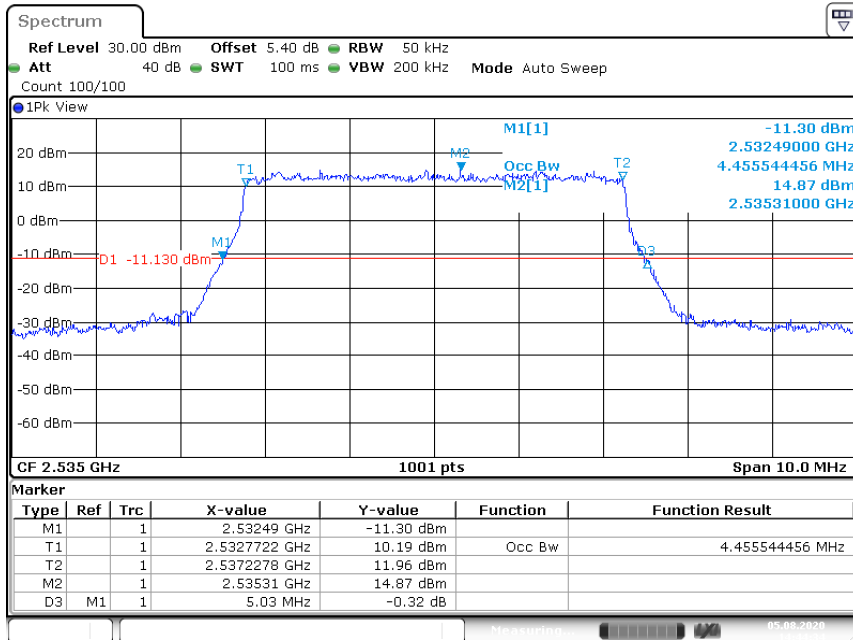


4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.456

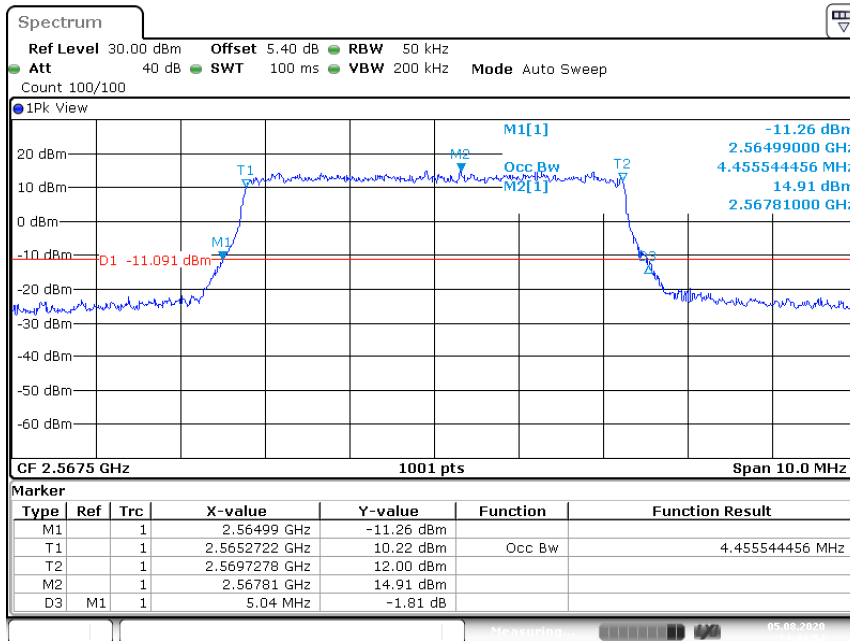


Band7-5MHz-QPSK-21100-25RB#0-4.456



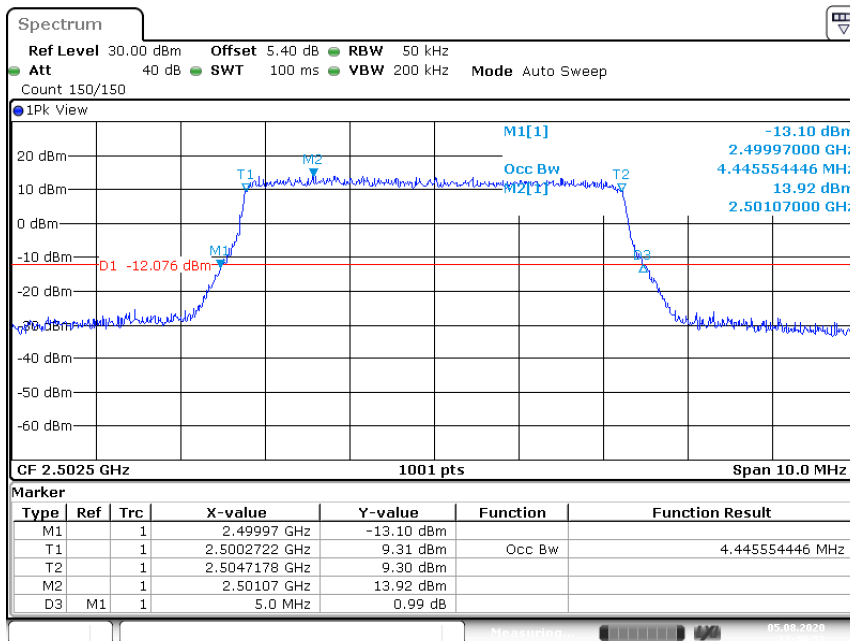


Band7-5MHz-QPSK-21425-25RB#0-4.456



Date: 5.AUG.2020 14:44:54

Band7-5MHz-16QAM-20775-25RB#0-4.446



Date: 5.AUG.2020 12:49:53

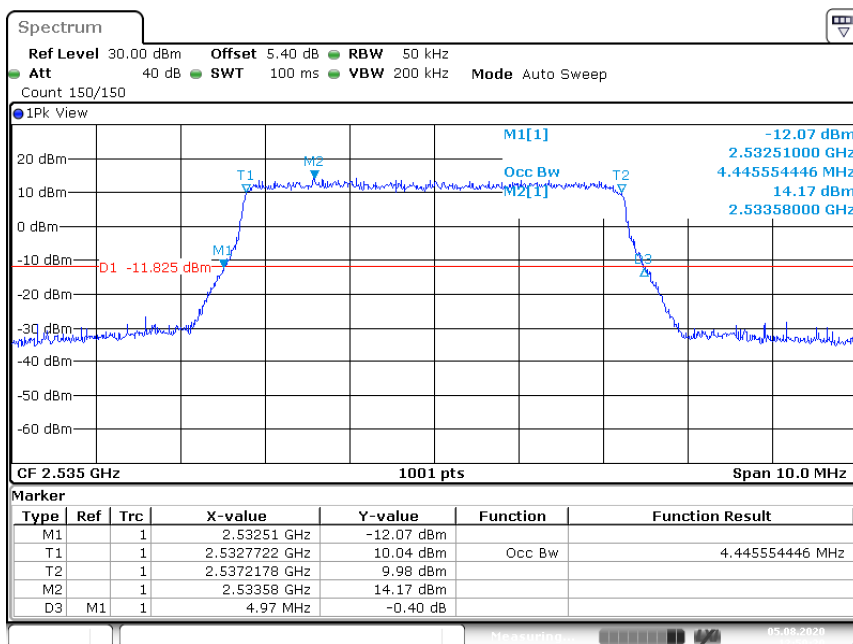


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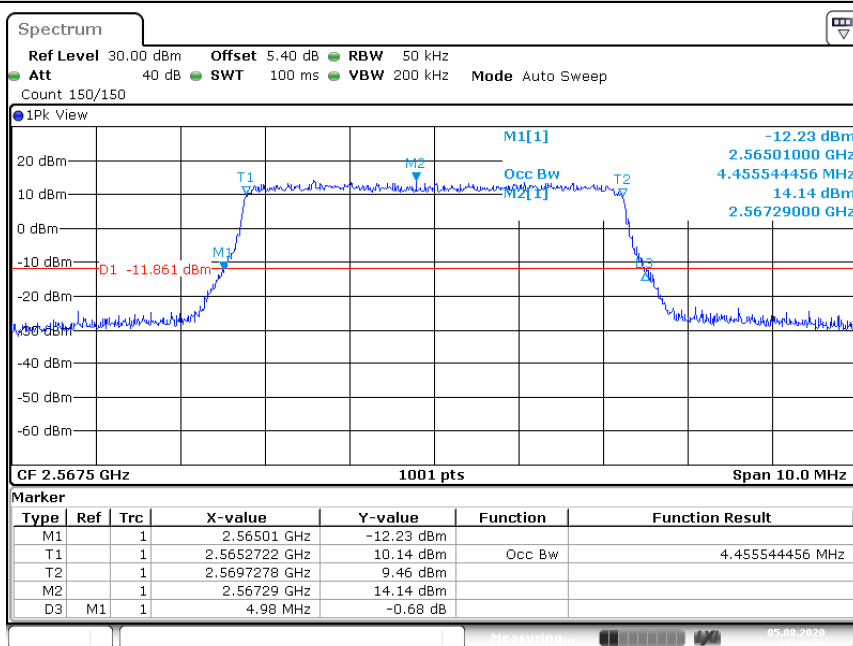
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Band7-5MHz-16QAM-21100-25RB#0-4.446



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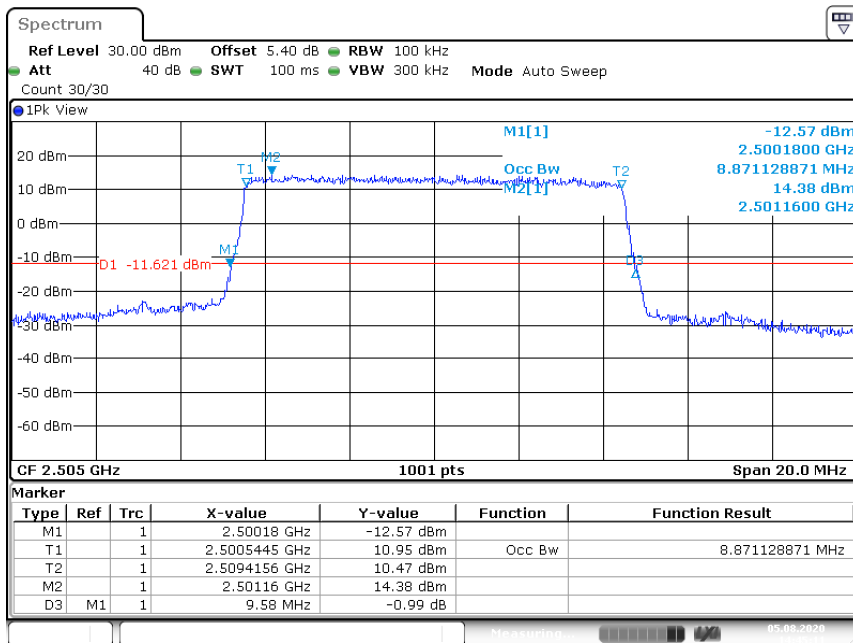
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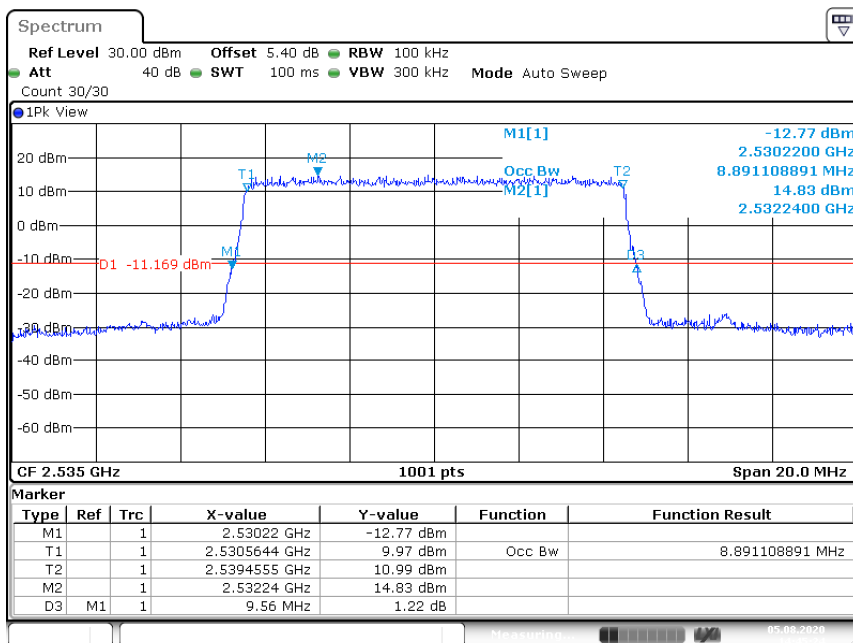


Band7-10MHz-QPSK-20800-50RB#0-8.871



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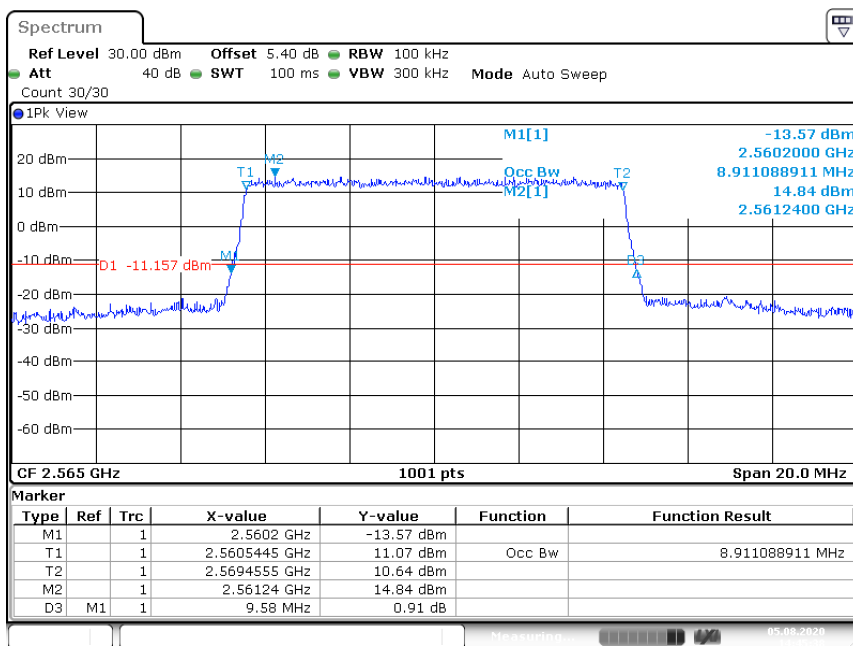
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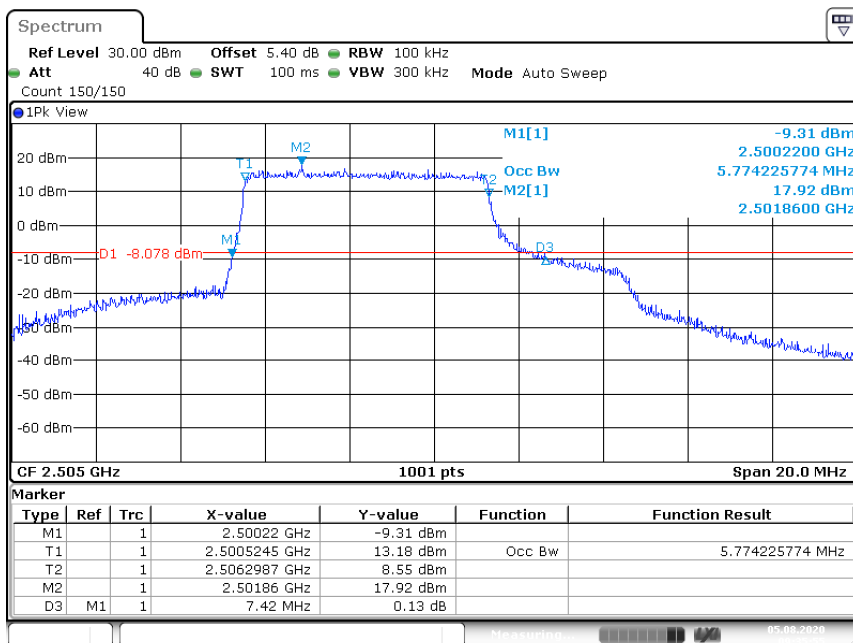


Band7-10MHz-QPSK-21400-50RB#0-8.911



Date: 5.AUG.2020 14:45:38

Band7-10MHz-16QAM-20800-32RB#0-5.774

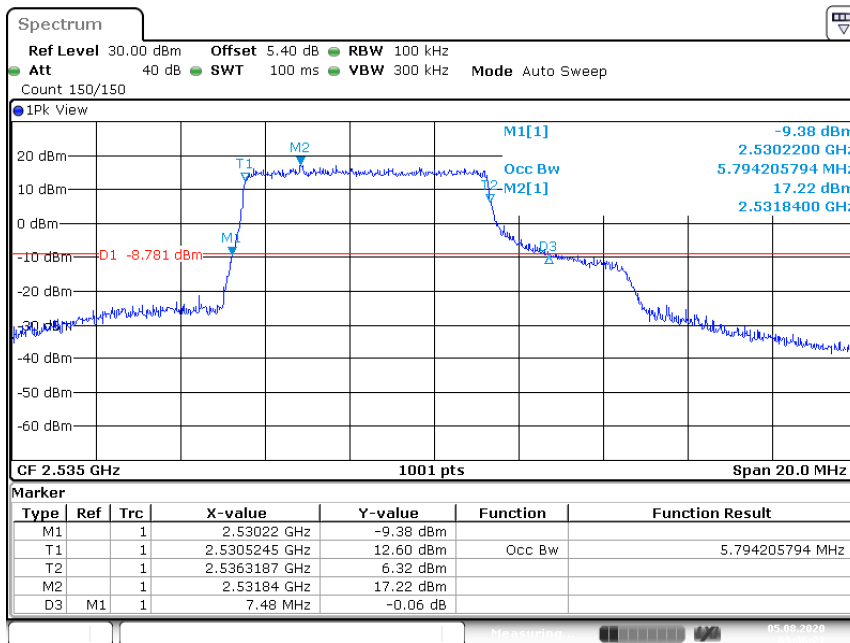


Date: 5.AUG.2020 09:35:55



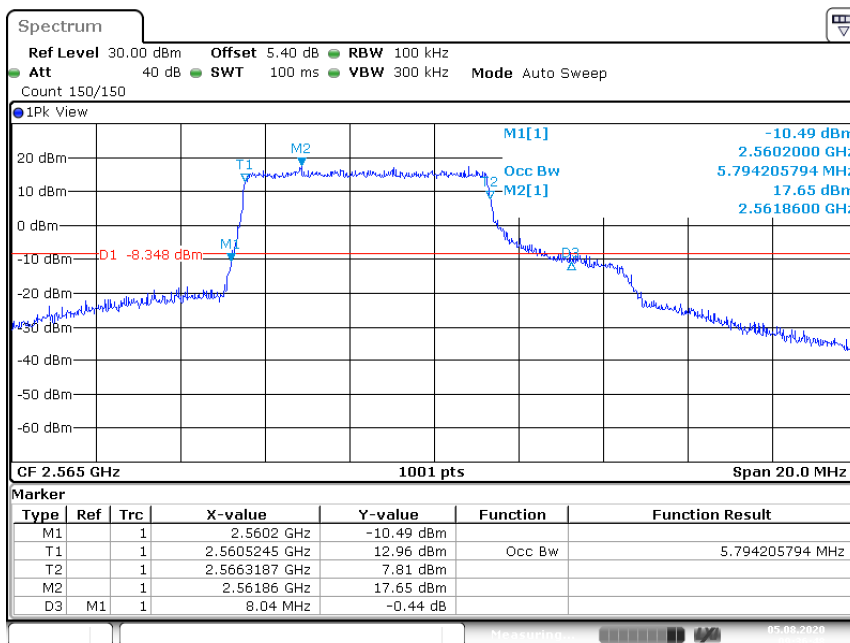


Band7-10MHz-16QAM-21100-32RB#0-5.794



Date: 5.AUG.2020 09:36:22

Band7-10MHz-16QAM-21400-32RB#0-5.794



Date: 5.AUG.2020 09:36:48

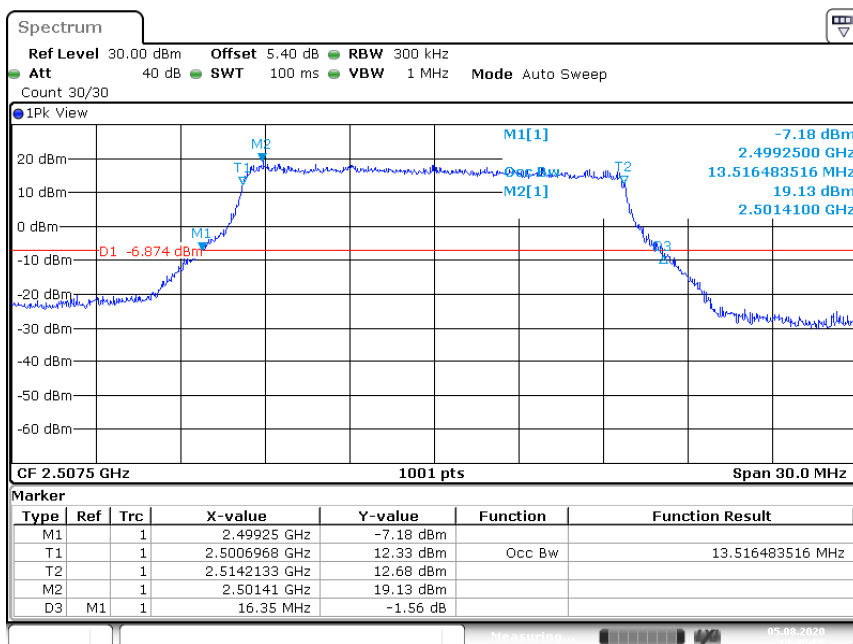


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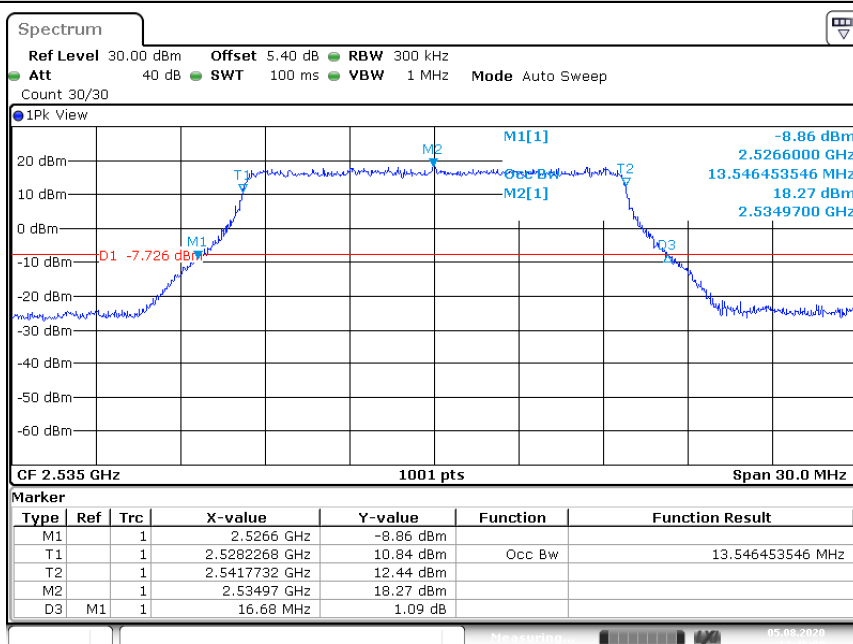
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Band7-15MHz-QPSK-20825-75RB#0-13.516



Date: 5.AUG.2020 14:45:55

Band7-15MHz-QPSK-21100-75RB#0-13.546

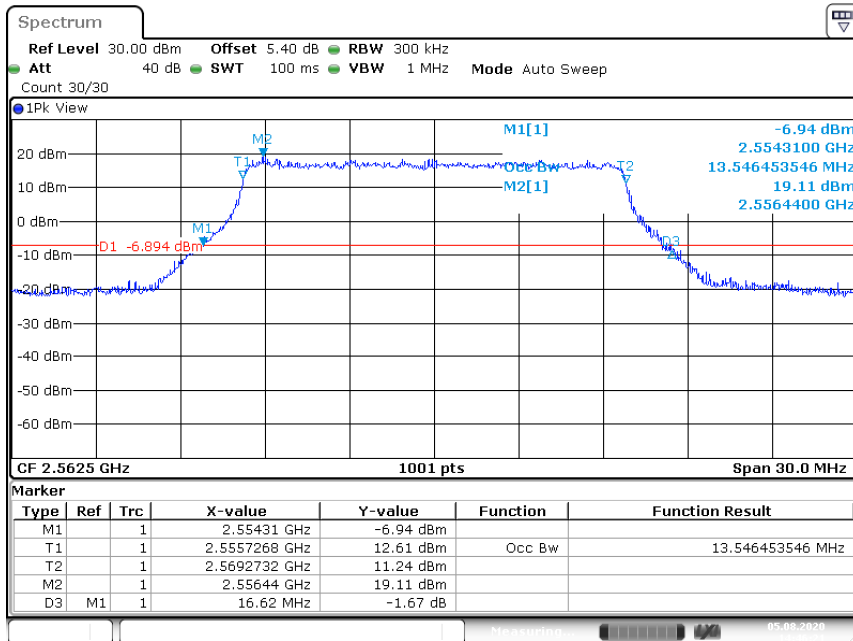


Date: 5.AUG.2020 14:46:08



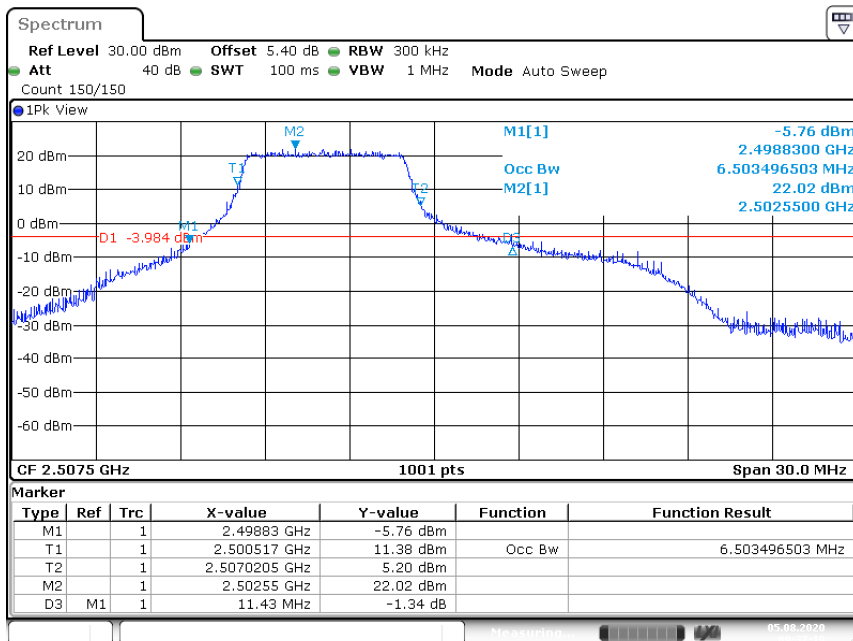


Band7-15MHz-QPSK-21375-75RB#0-13.546



Date: 5.AUG.2020 14:46:21

Band7-15MHz-16QAM-20825-32RB#0-6.503



Date: 5.AUG.2020 09:37:19



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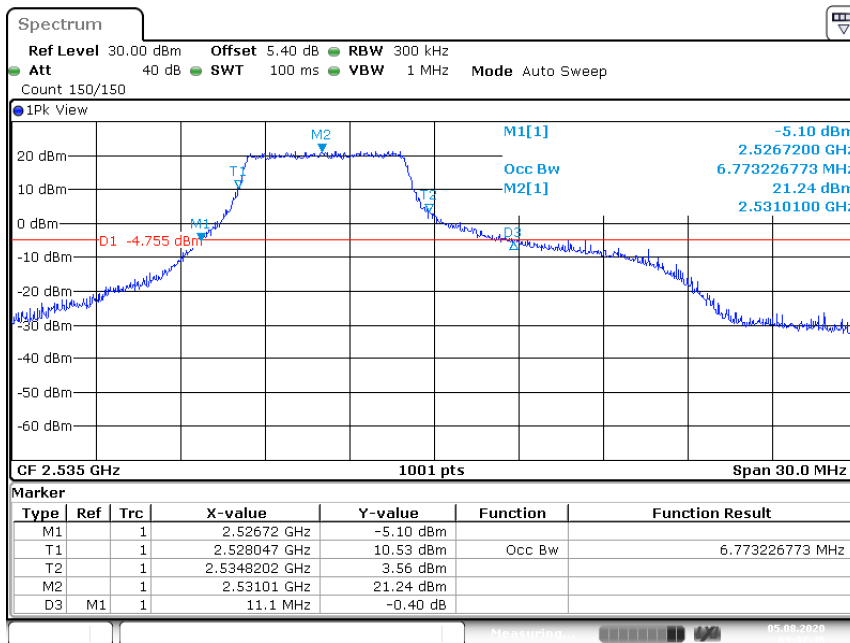
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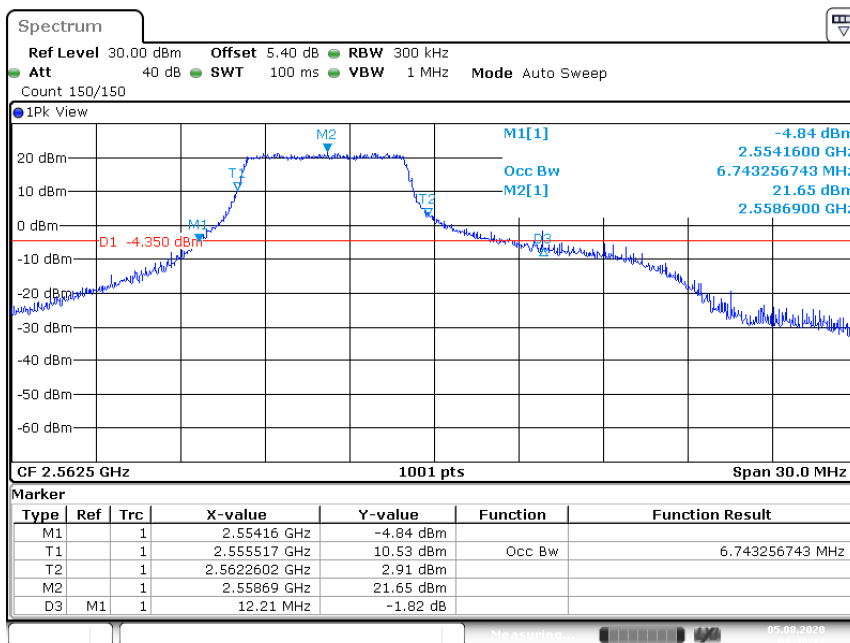


Band7-15MHz-16QAM-21100-32RB#0-6.773



Date: 5.AUG.2020 09:37:46

Band7-15MHz-16QAM-21375-32RB#0-6.743



Date: 5.AUG.2020 09:38:12



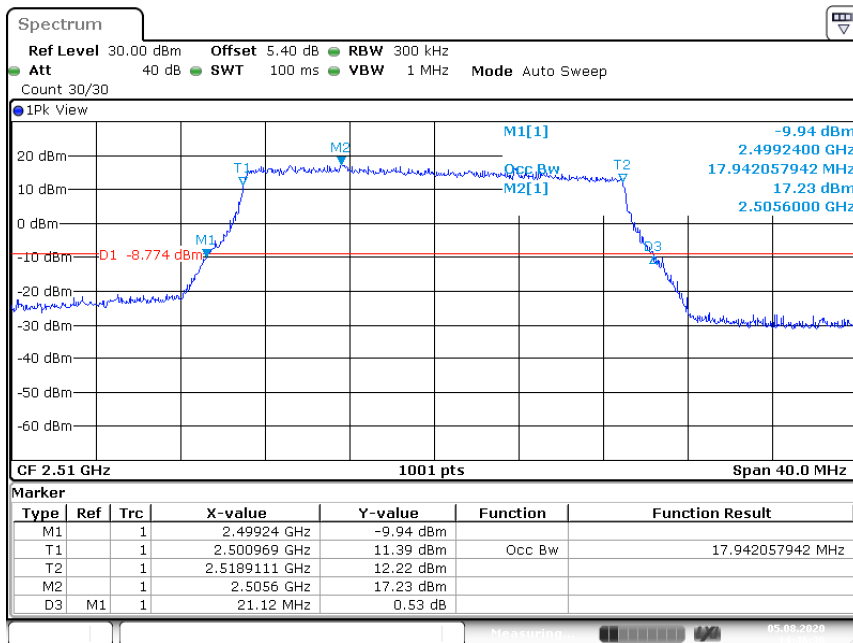
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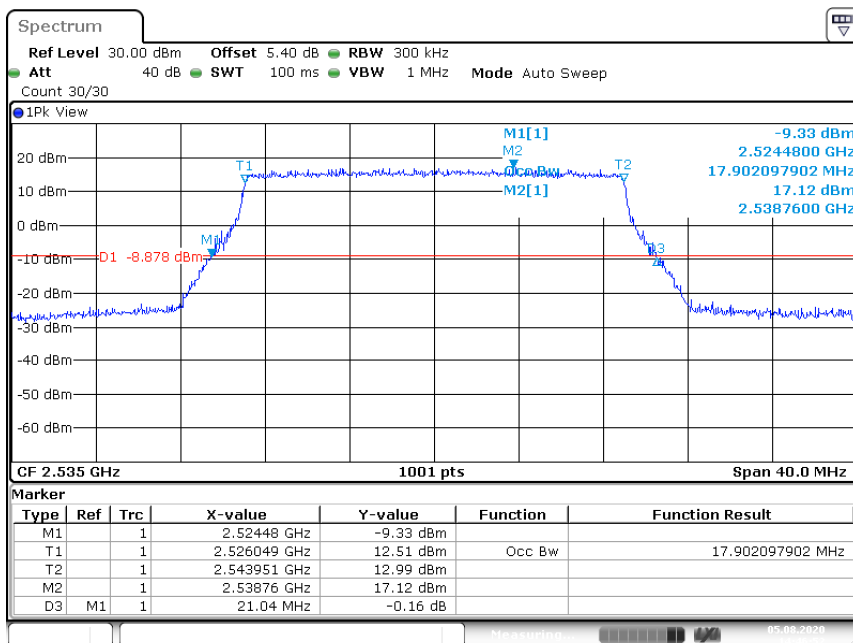
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Band7-20MHz-QPSK-20850-100RB#0-17.942



Date: 5.AUG.2020 14:46:39

Band7-20MHz-QPSK-21100-100RB#0-17.902

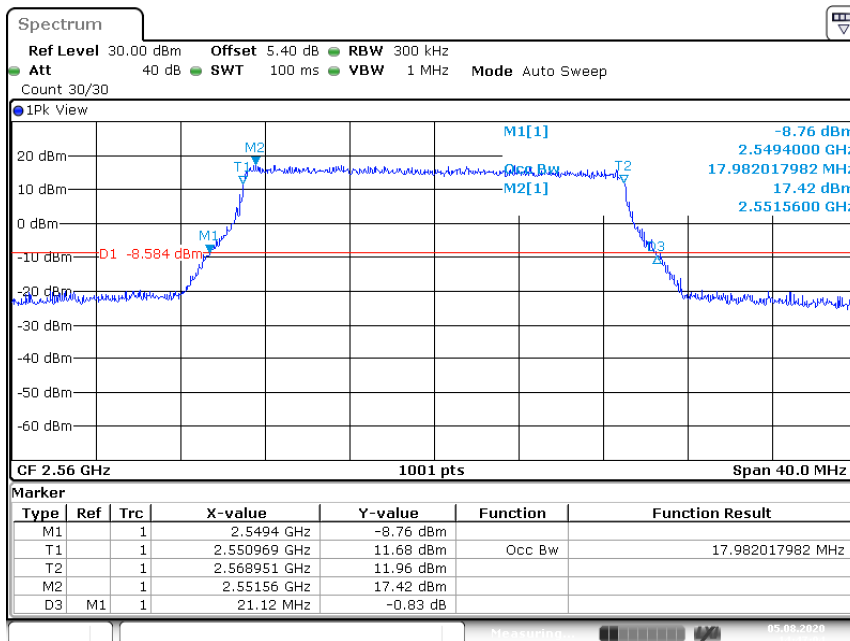


Date: 5.AUG.2020 14:46:52



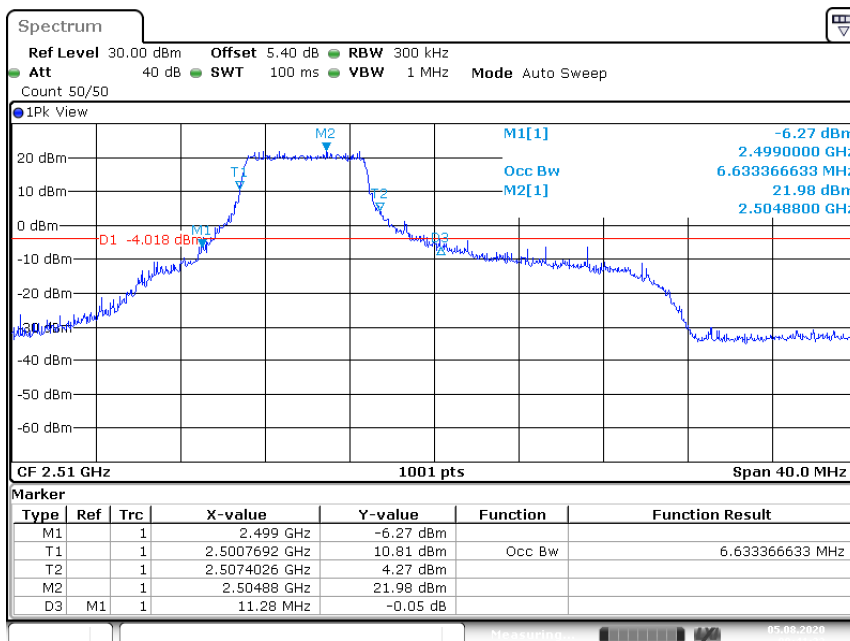


Band7-20MHz-QPSK-21350-100RB#0-17.982



Date: 5.AUG.2020 14:47:05

Band7-20MHz-16QAM-20850-32RB#0-6.633



Date: 5.AUG.2020 09:41:22

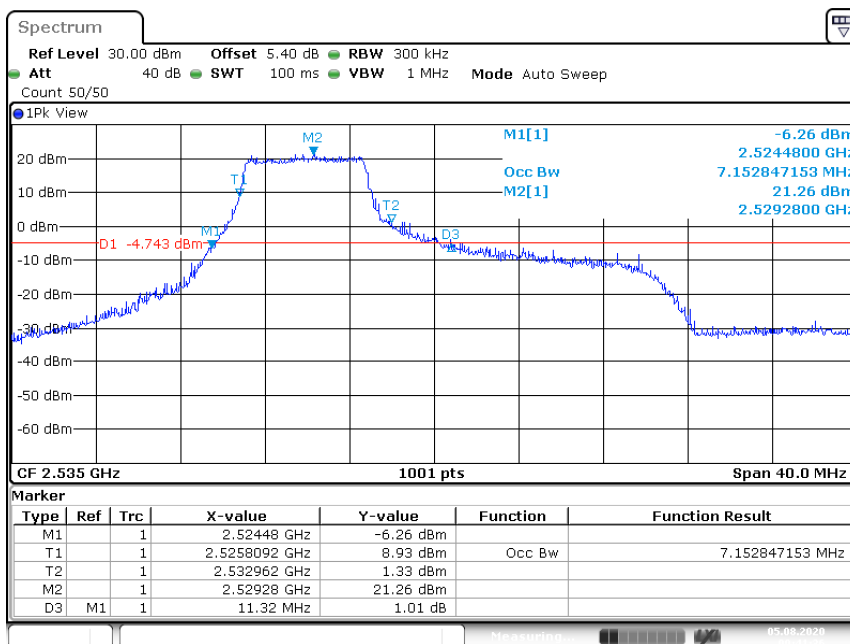


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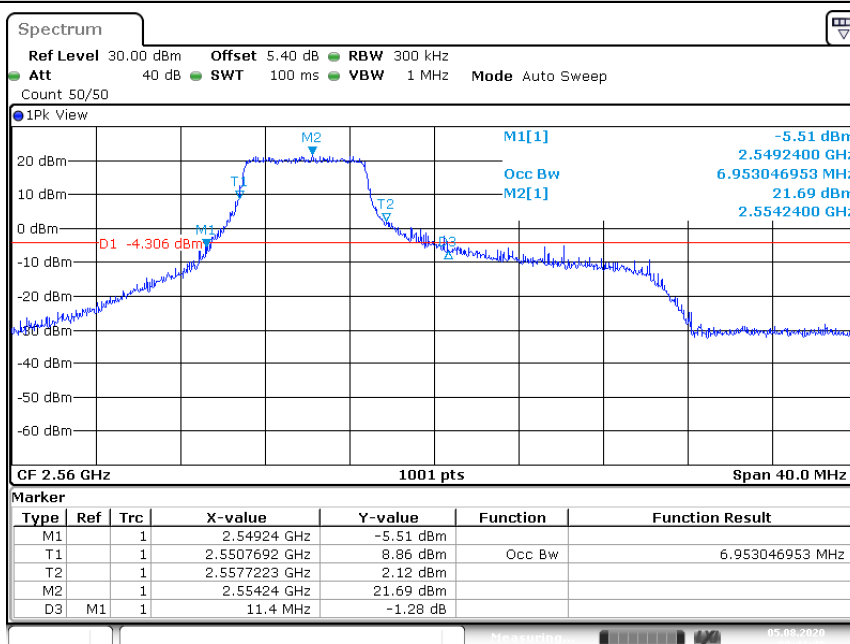


Band7-20MHz-16QAM-21100-32RB#0-7.153



Date: 5.AUG.2020 09:41:36

Band7-20MHz-16QAM-21350-32RB#0-6.953



Date: 5.AUG.2020 09:41:49



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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-53.08,-35.32,-11.61	PASS
Band7	5MHz	QPSK	20775	25RB#0	-52.24,-43.88,-22.89	PASS
Band7	5MHz	QPSK	21425	1RB#24	-45.54,-52.60,-11.62	PASS
Band7	5MHz	QPSK	21425	25RB#0	-46.33,-43.12,-22.84	PASS
Band7	5MHz	16QAM	20775	1RB#0	-53.36,-37.12,-12.53	PASS
Band7	5MHz	16QAM	20775	25RB#0	-52.41,-47.46,-25.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	-46.89,-52.88,-11.94	PASS
Band7	5MHz	16QAM	21425	25RB#0	-49.63,-47.78,-24.80	PASS
Band7	10MHz	QPSK	20800	1RB#0	-47.26,-36.32,-22.69	PASS
Band7	10MHz	QPSK	20800	50RB#0	-47.49,-34.12,-29.60	PASS
Band7	10MHz	QPSK	21400	1RB#49	-50.18,-34.37,-21.28	PASS
Band7	10MHz	QPSK	21400	50RB#0	-43.01,-33.31,-28.70	PASS
Band7	10MHz	16QAM	20800	1RB#0	-49.99,-37.54,-22.03	PASS
Band7	10MHz	16QAM	20800	32RB#0	-49.01,-39.37,-29.84	PASS
Band7	10MHz	16QAM	21400	1RB#49	-49.95,-37.57,-23.85	PASS
Band7	10MHz	16QAM	21400	32RB#18	-48.13,-41.42,-30.43	PASS
Band7	15MHz	QPSK	20825	1RB#0	-36.86,-41.04,-10.92	PASS
Band7	15MHz	QPSK	20825	75RB#0	-36.23,-32.17,-21.88	PASS
Band7	15MHz	QPSK	21375	1RB#74	-48.80,-30.30,-10.71	PASS
Band7	15MHz	QPSK	21375	75RB#0	-44.81,-31.42,-23.38	PASS
Band7	15MHz	16QAM	20825	1RB#0	-38.70,-42.40,-12.58	PASS
Band7	15MHz	16QAM	20825	32RB#0	-46.16,-35.55,-19.49	PASS
Band7	15MHz	16QAM	21375	1RB#74	-48.70,-35.31,-11.60	PASS
Band7	15MHz	16QAM	21375	32RB#43	-48.37,-39.79,-22.15	PASS
Band7	20MHz	QPSK	20850	1RB#0	-37.54,-38.84,-11.05	PASS
Band7	20MHz	QPSK	20850	100RB#0	-32.78,-30.14,-21.78	PASS
Band7	20MHz	QPSK	21350	1RB#99	-46.49,-31.84,-11.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	-45.85,-31.89,-24.47	PASS
Band7	20MHz	16QAM	20850	1RB#0	-41.41,-40.75,-11.39	PASS
Band7	20MHz	16QAM	20850	32RB#0	-43.01,-33.39,-18.66	PASS
Band7	20MHz	16QAM	21350	1RB#99	-46.73,-33.82,-13.71	PASS
Band7	20MHz	16QAM	21350	32RB#68	-46.64,-39.55,-21.32	PASS

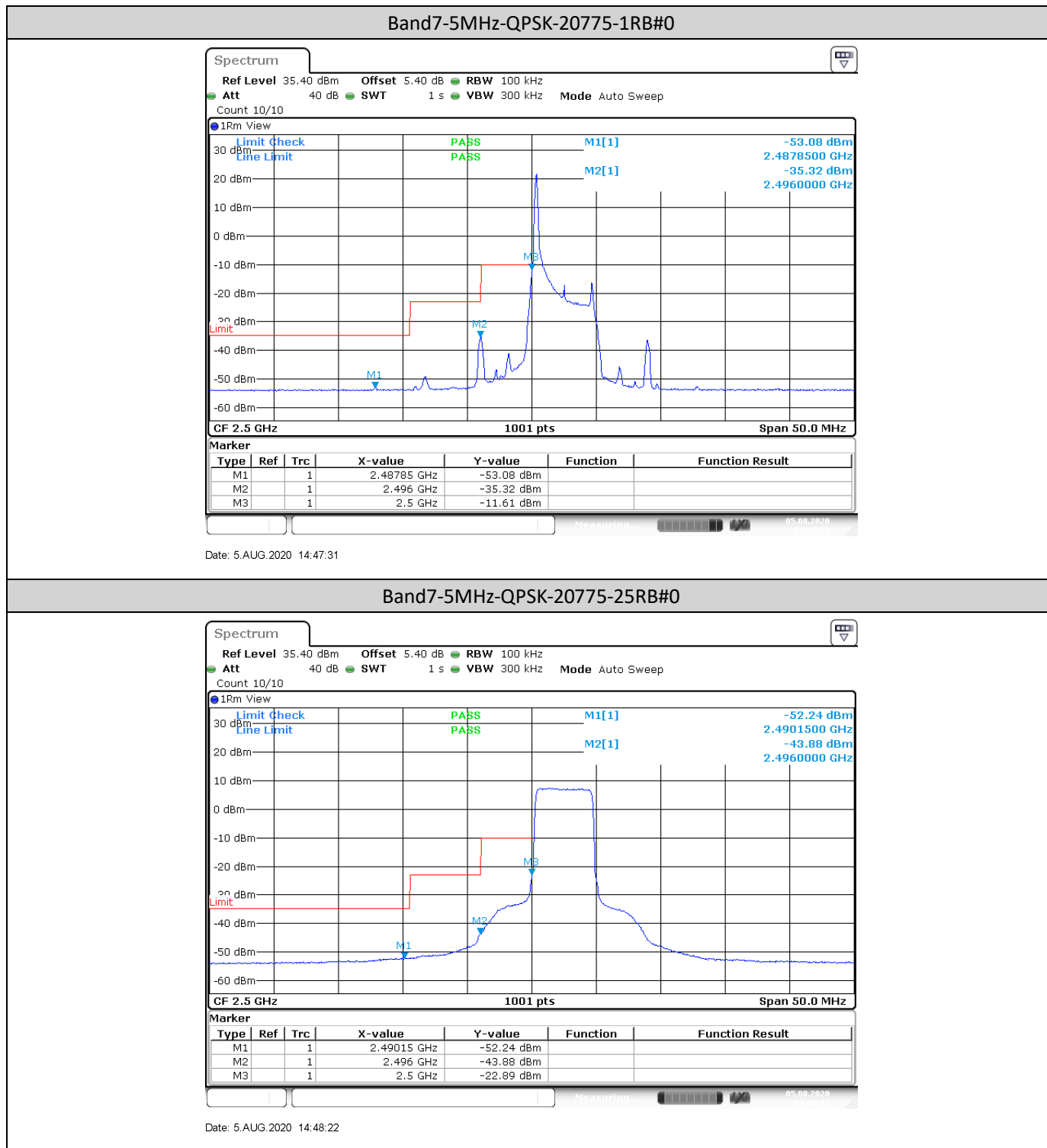


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5.2. Test Plots

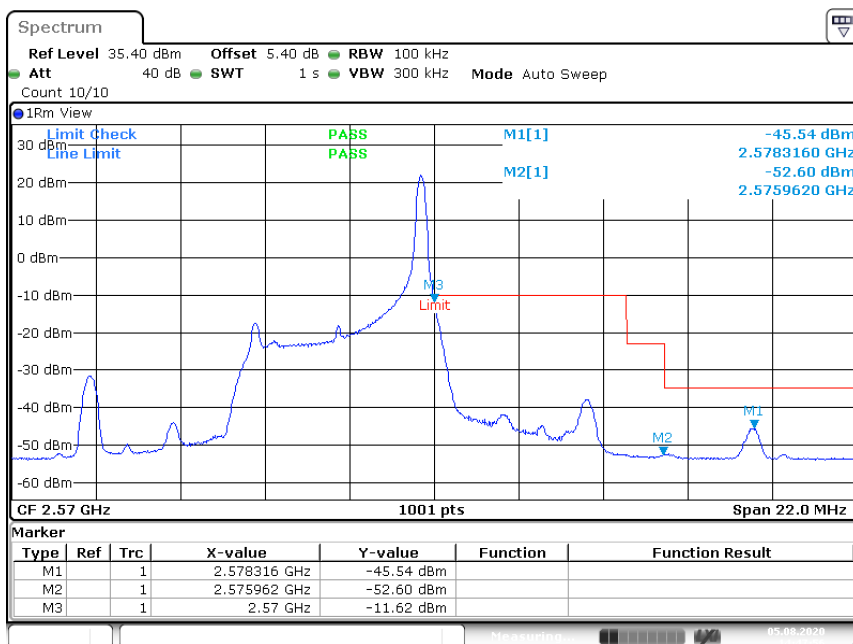


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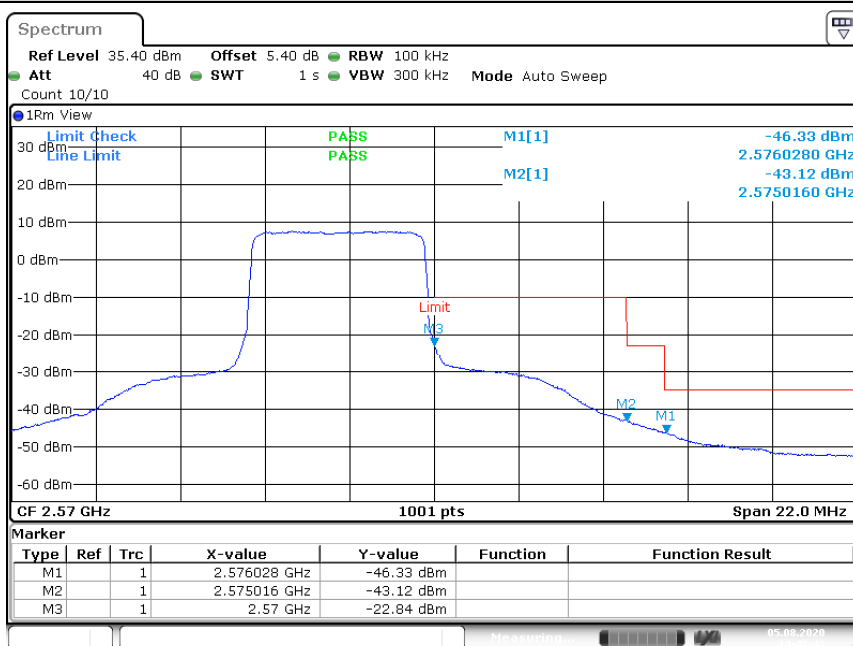
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Band7-5MHz-QPSK-21425-1RB#24



Date: 5.AUG.2020 14:47:56

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

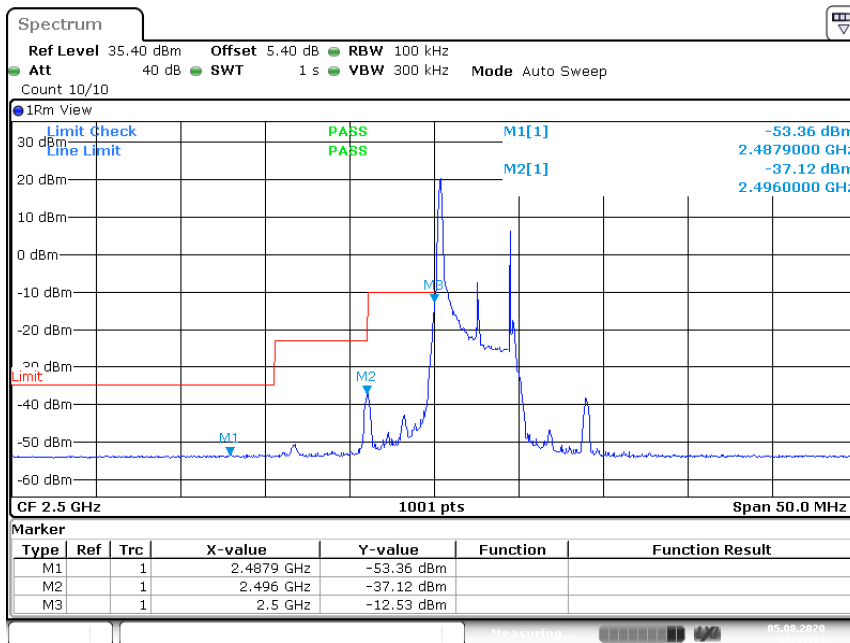


Date: 5.AUG.2020 14:48:44



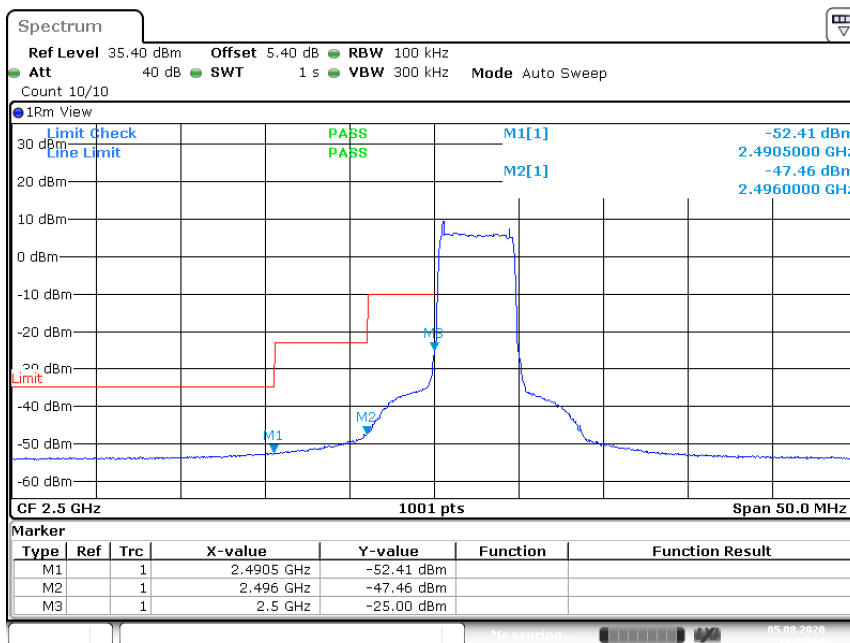


Band7-5MHz-16QAM-20775-1RB#0



Date: 5.AUG.2020 12:51:13

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



Date: 5.AUG.2020 12:52:05

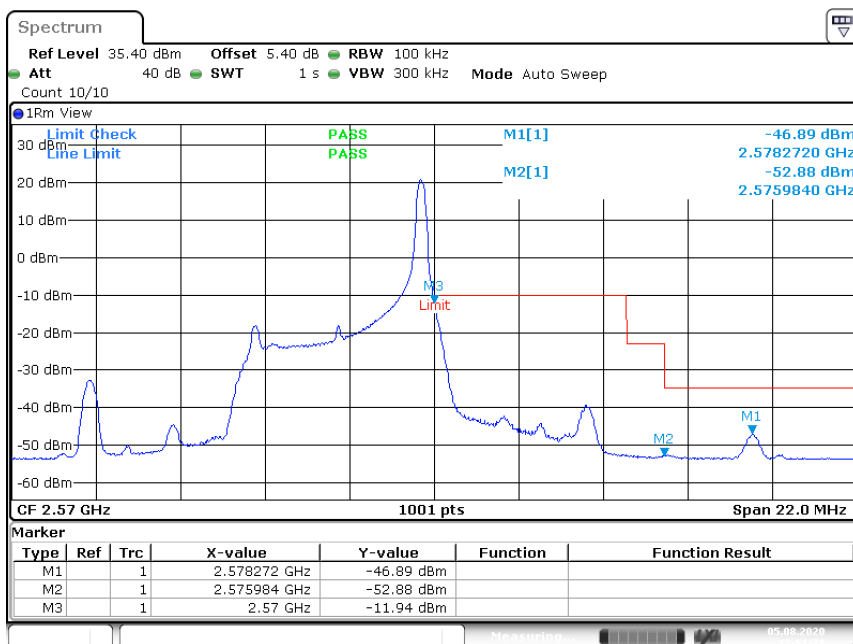


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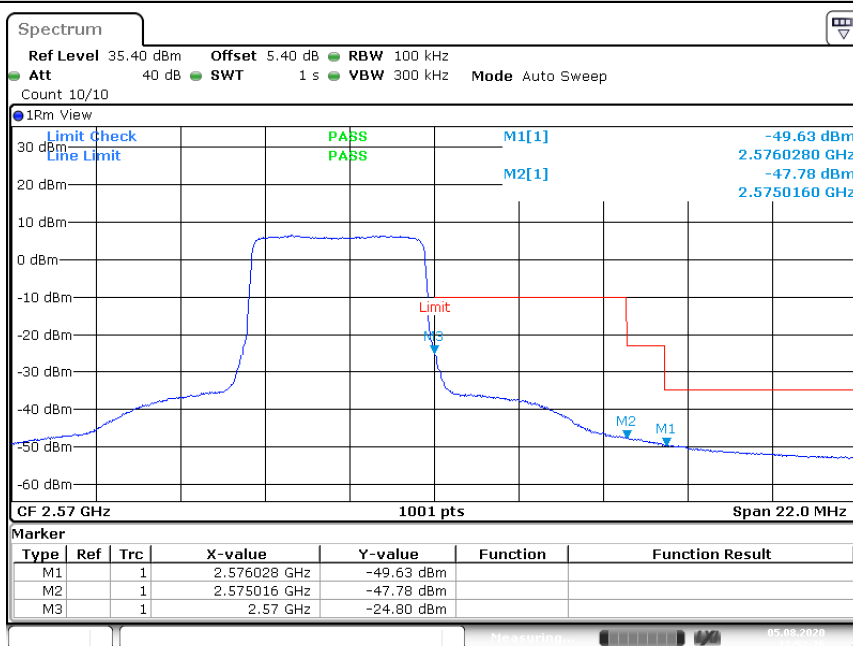
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Band7-5MHz-16QAM-21425-1RB#24



Date: 5.AUG.2020 12:51:39

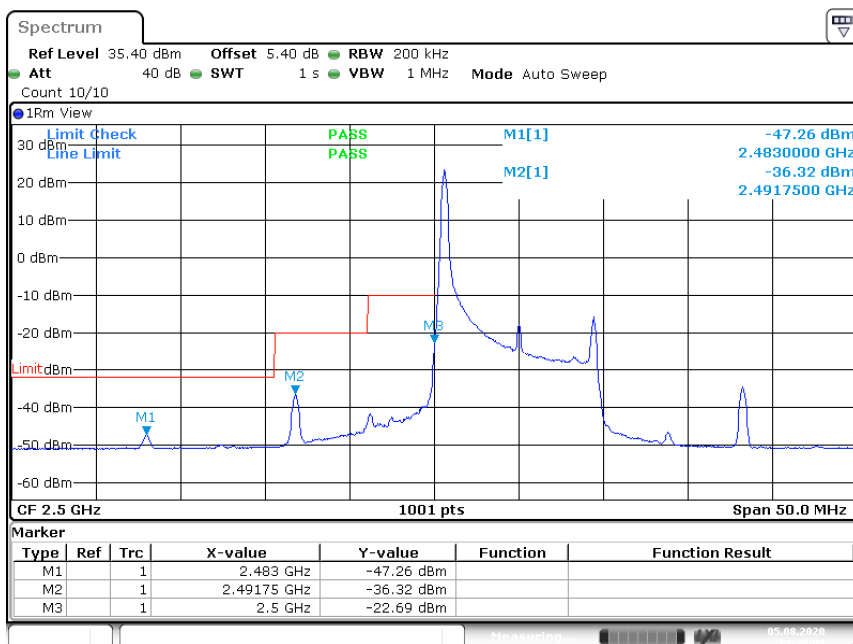
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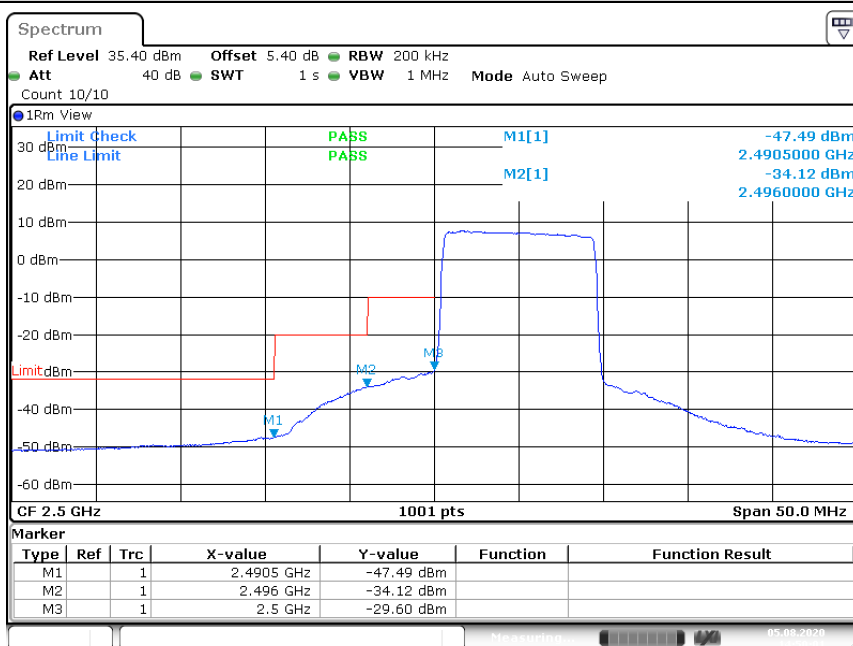


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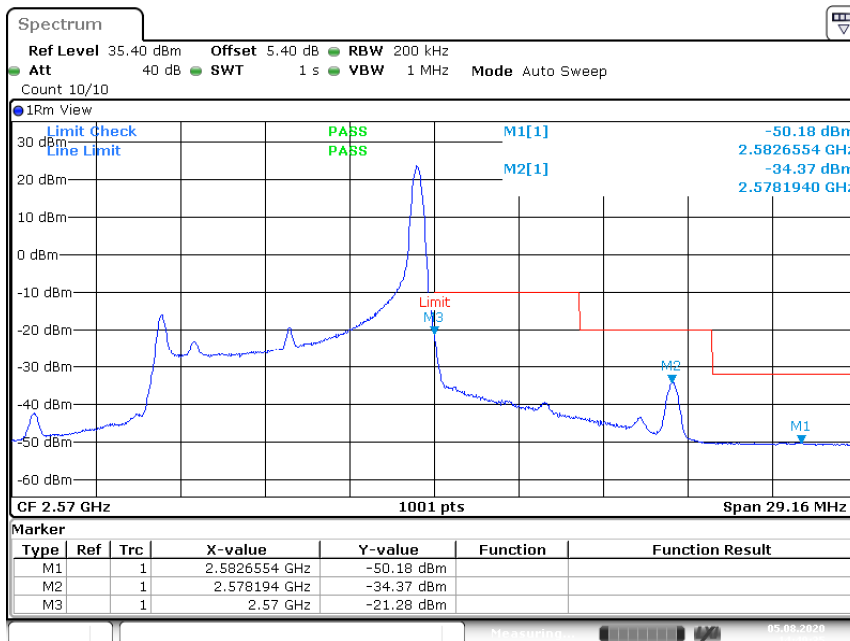
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Date: 5.AUG.2020 14:50:01

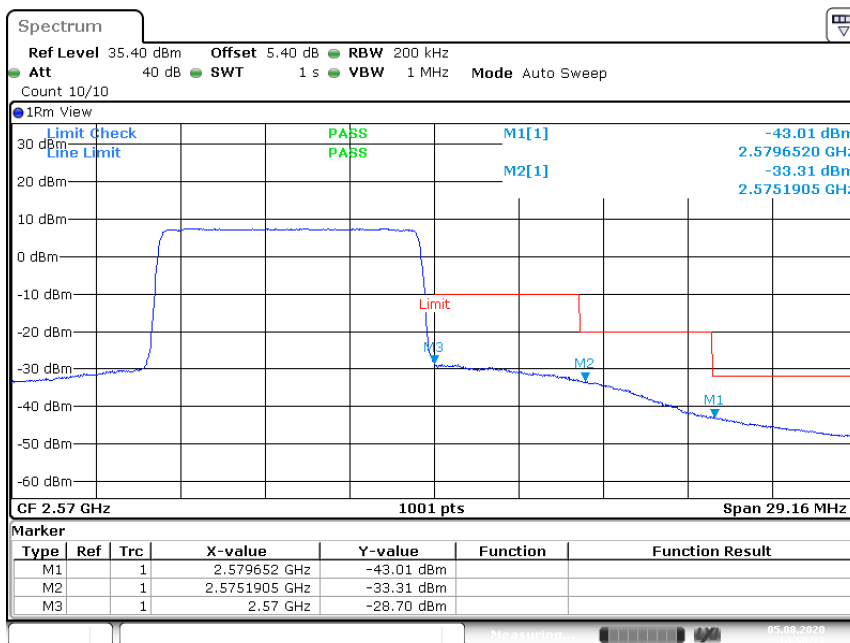


Band7-10MHz-QPSK-21400-1RB#49



Date: 5.AUG.2020 14:49:35

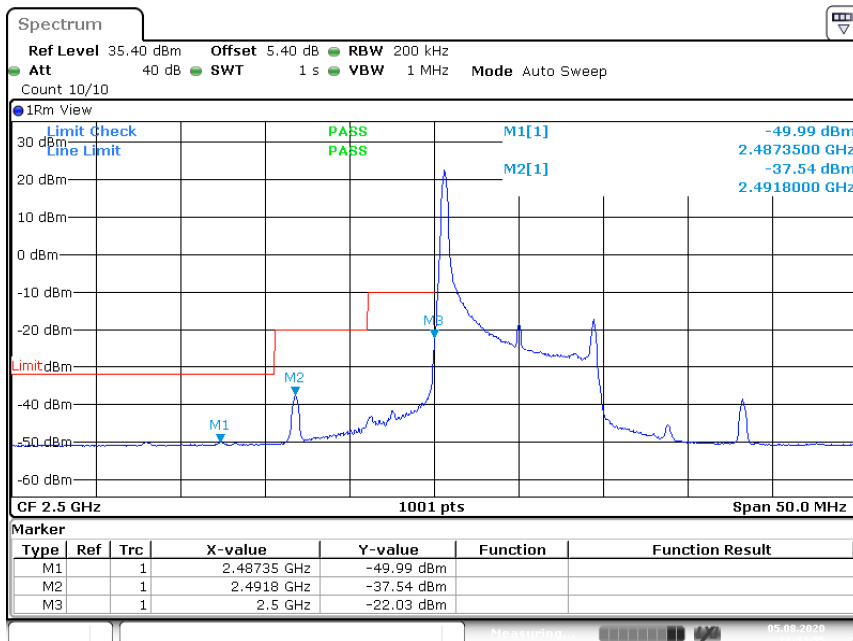
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Date: 5.AUG.2020 14:50:23

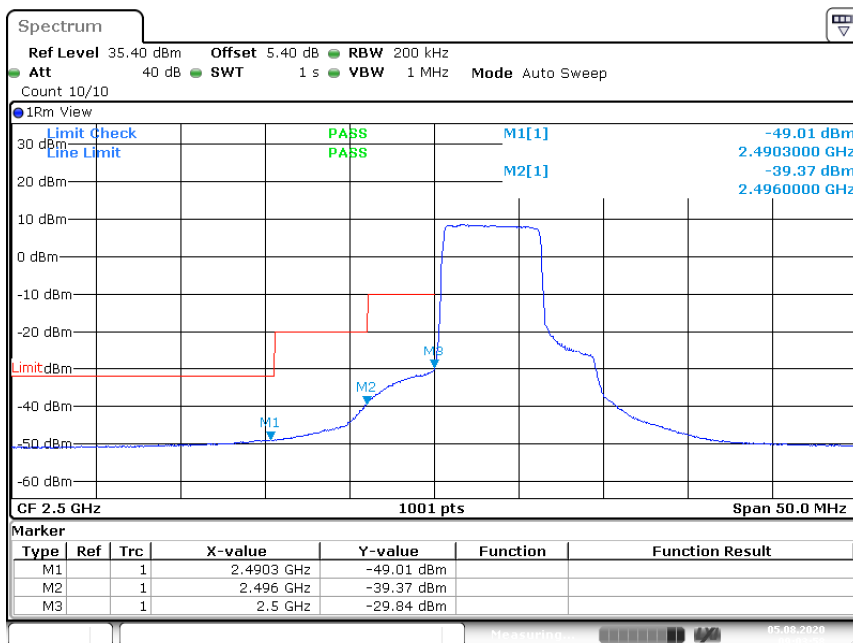


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Date: 5.AUG.2020 13:44:56

Band7-10MHz-16QAM-20800-32RB#0

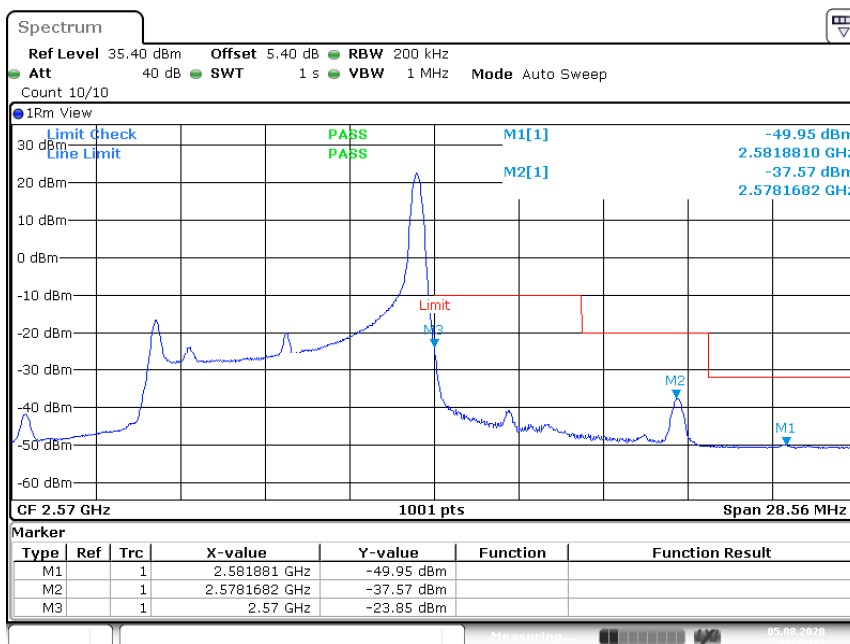


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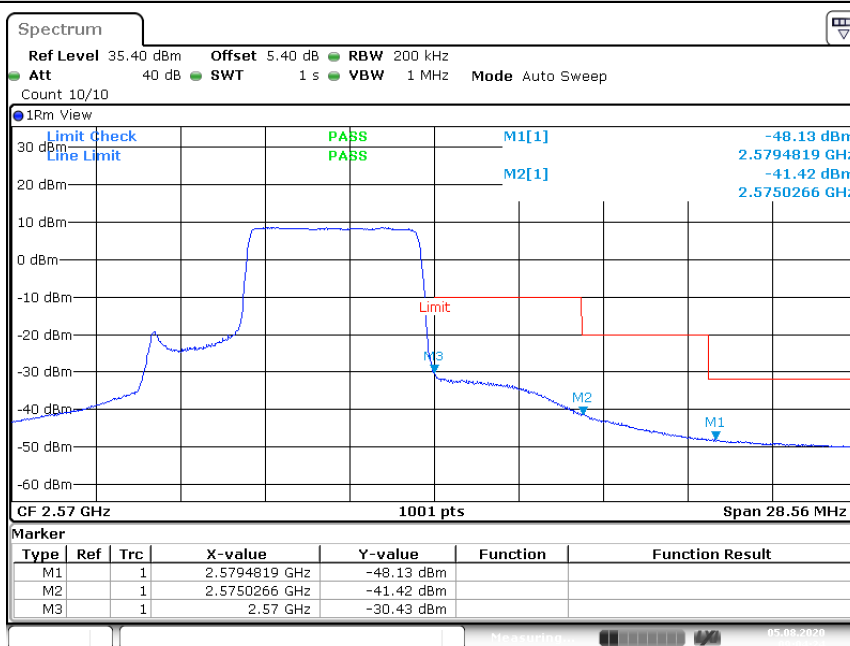


Band7-10MHz-16QAM-21400-1RB#49



Date: 5.AUG.2020 13:45:21

Band7-10MHz-16QAM-21400-32RB#18



Date: 5.AUG.2020 09:04:24



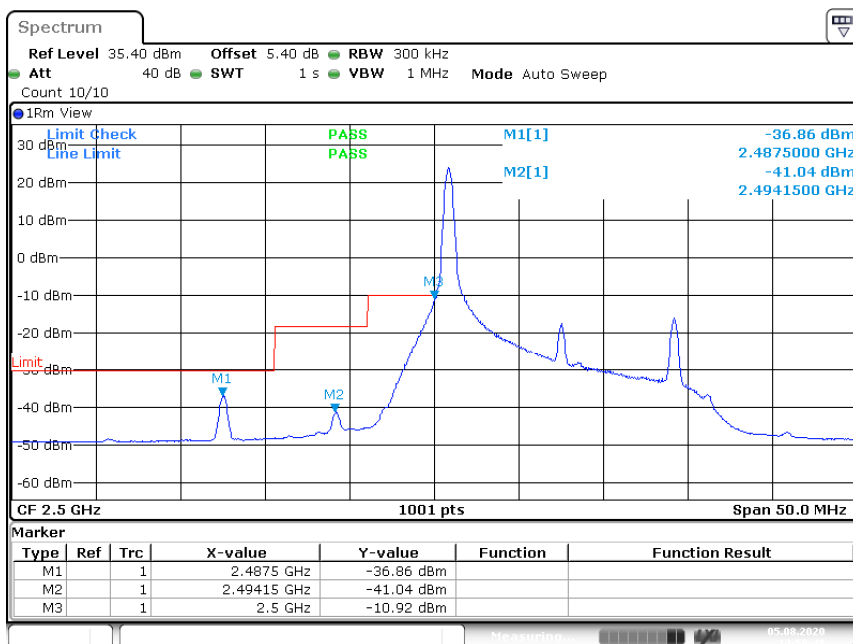
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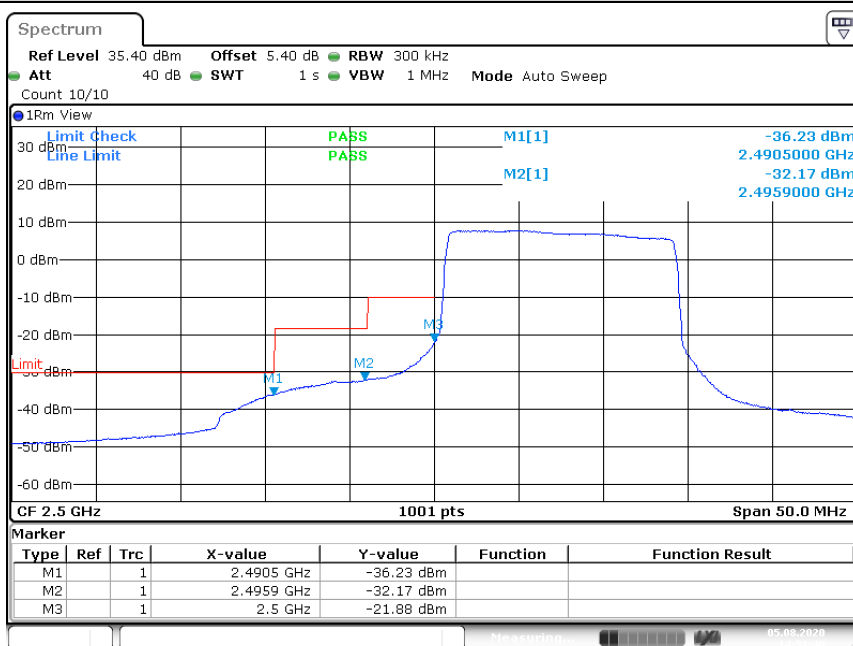
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Band7-15MHz-QPSK-20825-1RB#0



Date: 5.AUG.2020 14:50:49

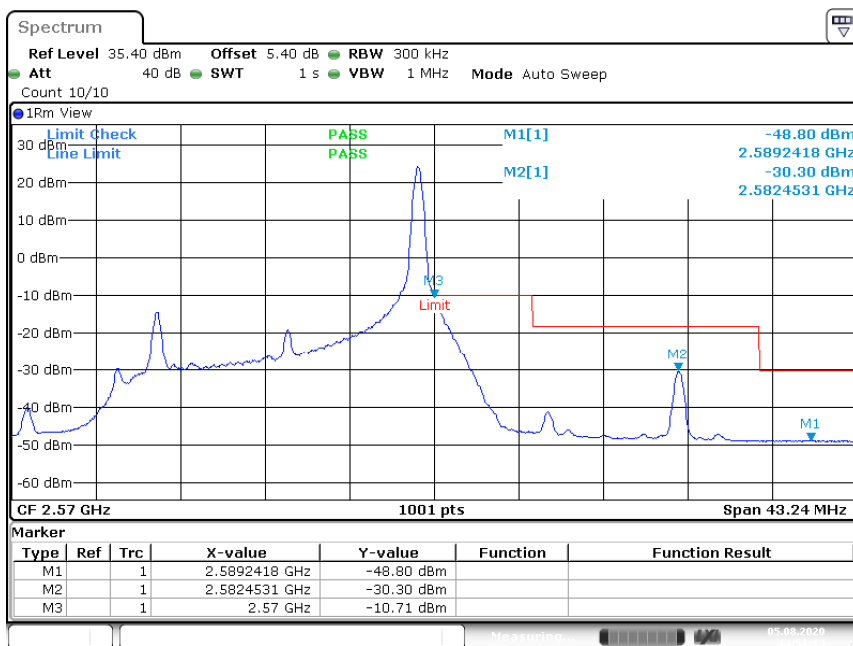
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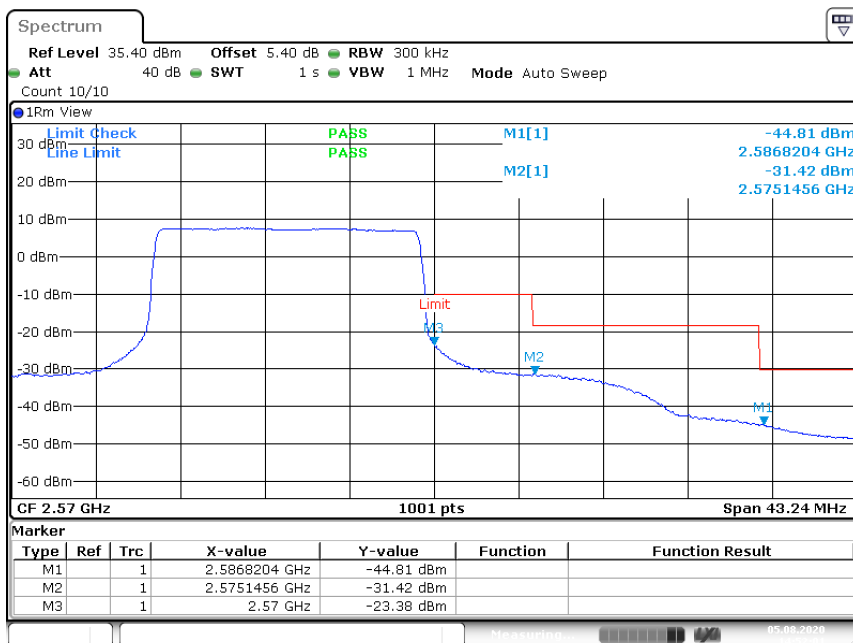


Band7-15MHz-QPSK-21375-1RB#74



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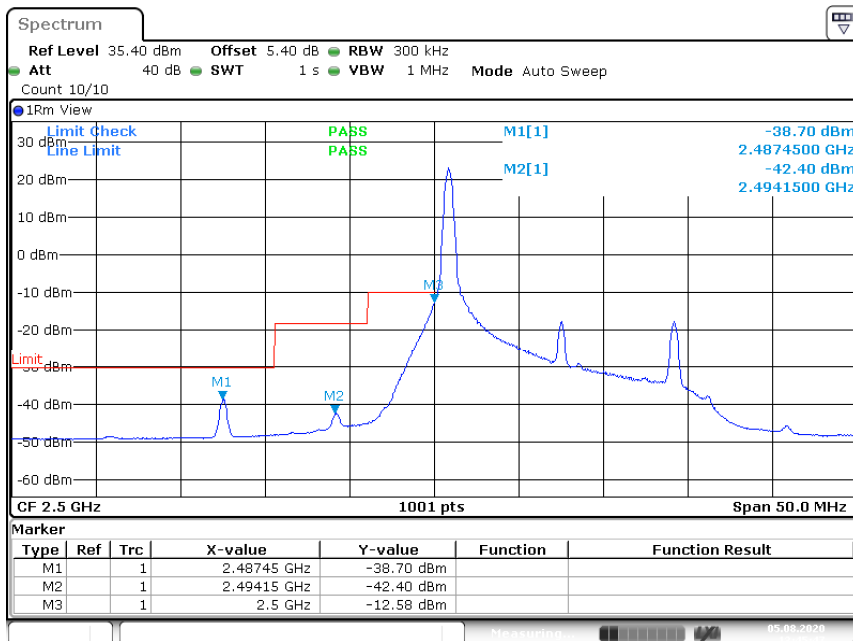
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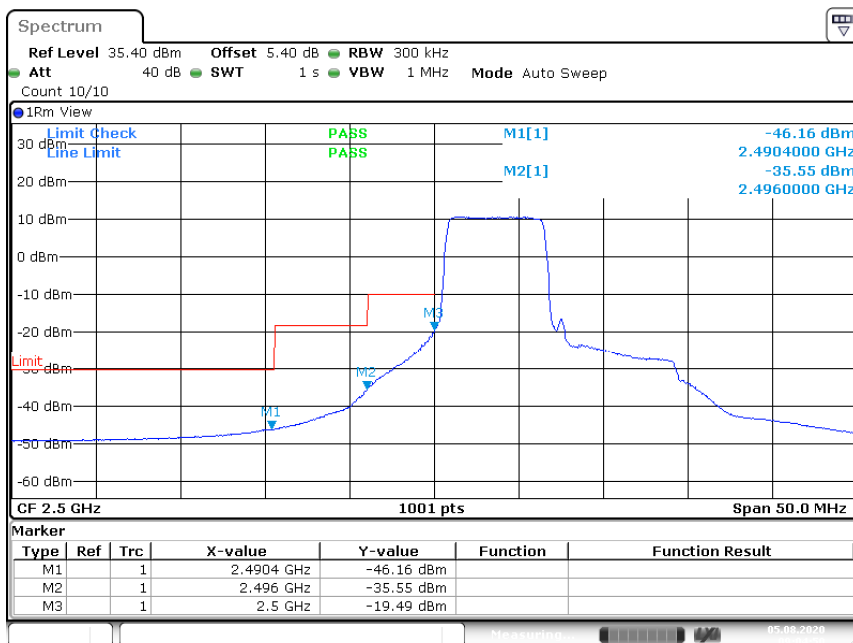


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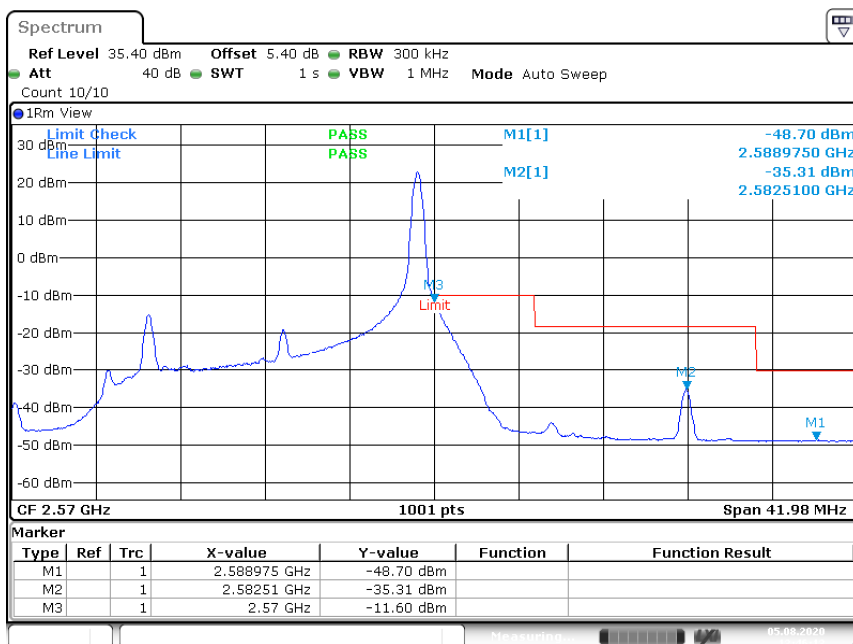
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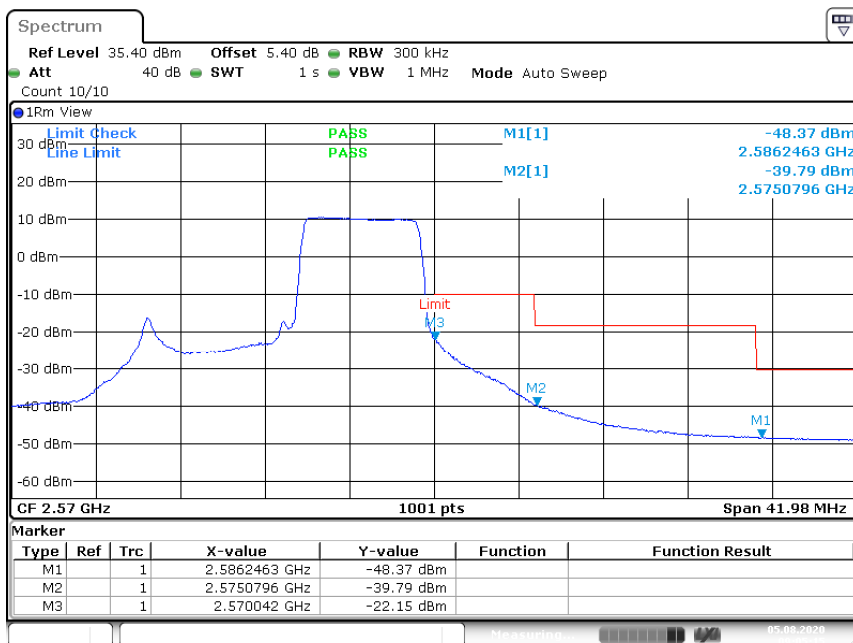


Band7-15MHz-16QAM-21375-1RB#74



Date: 5.AUG.2020 13:46:14

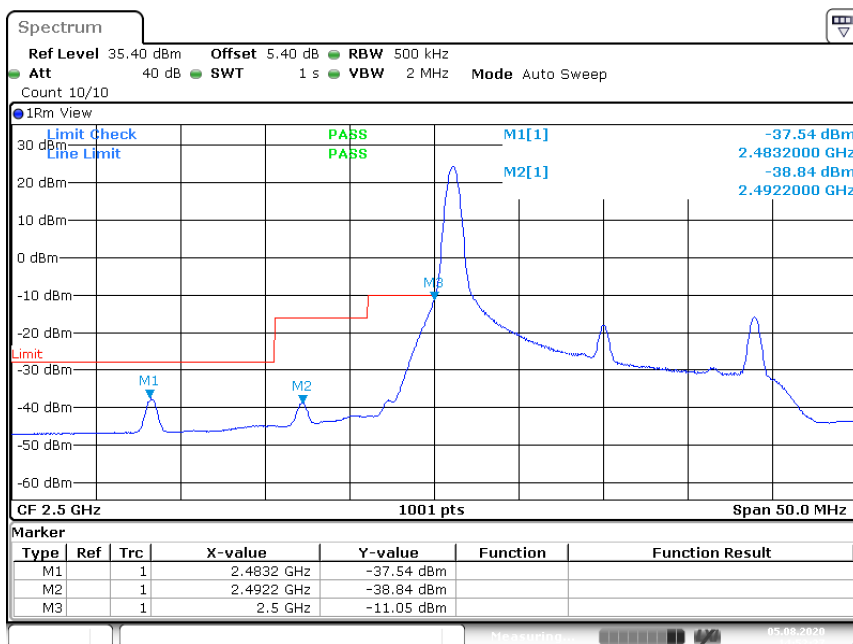
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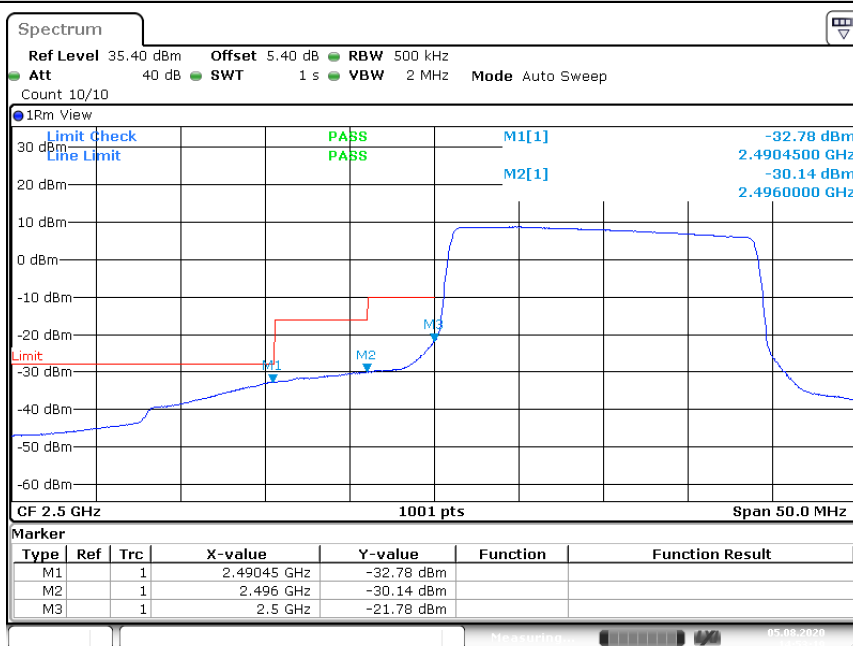


Band7-20MHz-QPSK-20850-1RB#0



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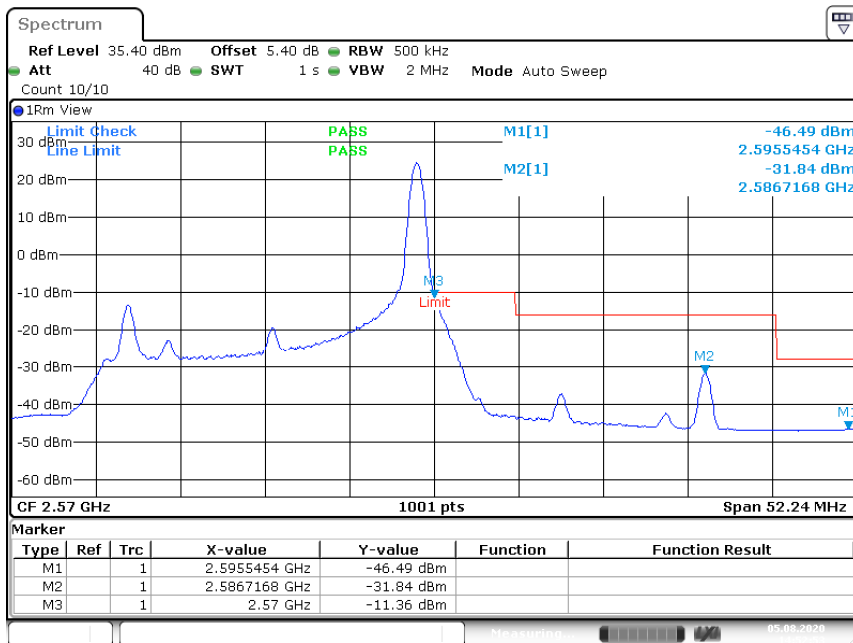
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Date: 5.AUG.2020 14:53:19

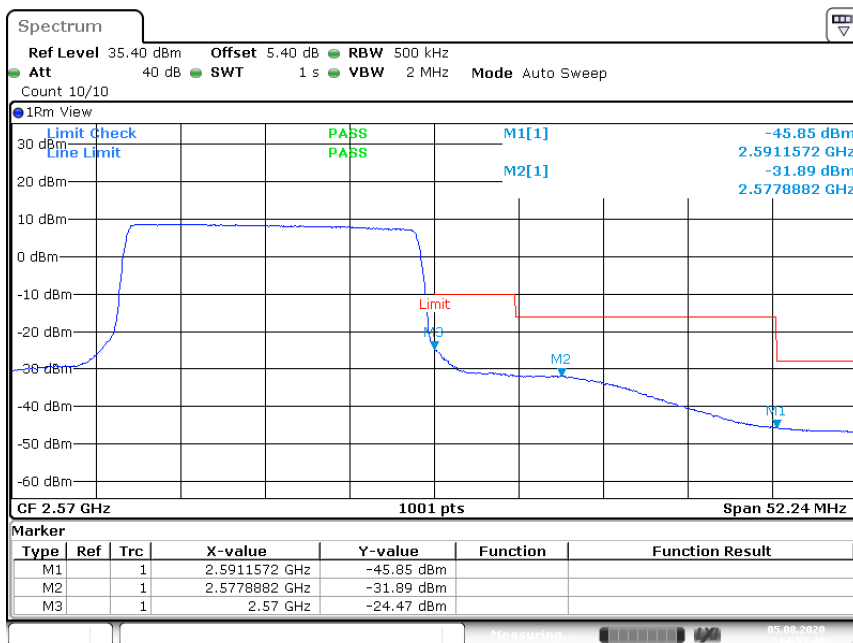


Band7-20MHz-QPSK-21350-1RB#99



Date: 5.AUG.2020 14:52:53

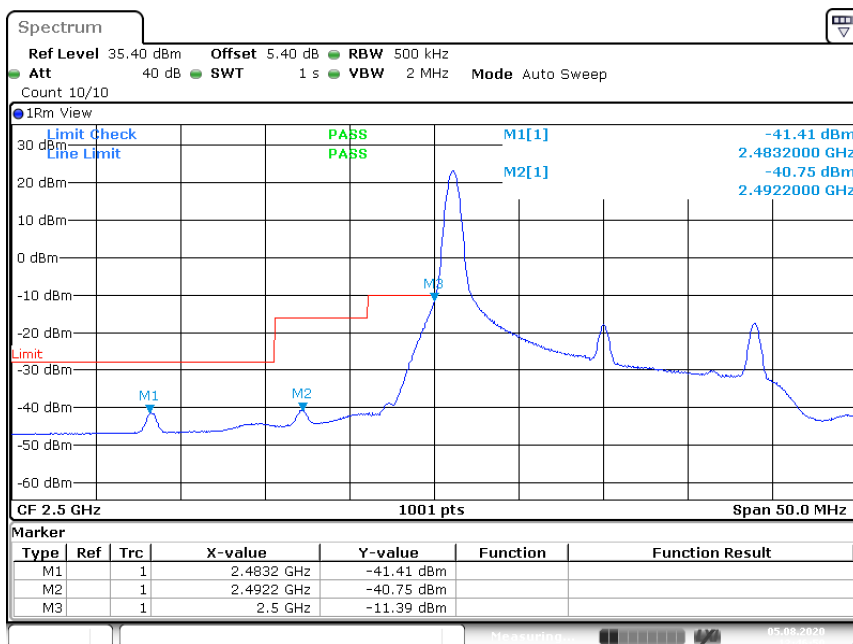
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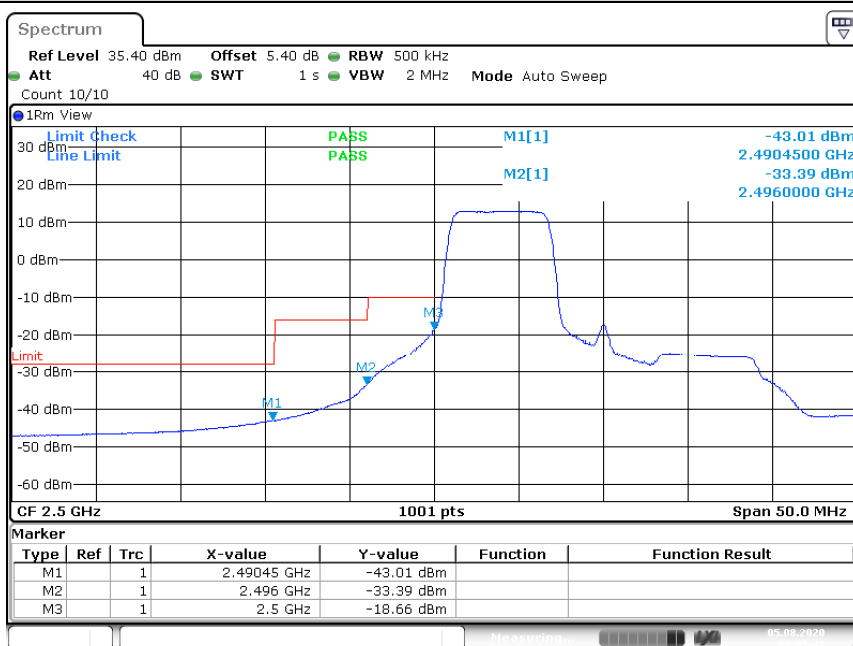


Band7-20MHz-16QAM-20850-1RB#0



Date: 5.AUG.2020 13:46:51

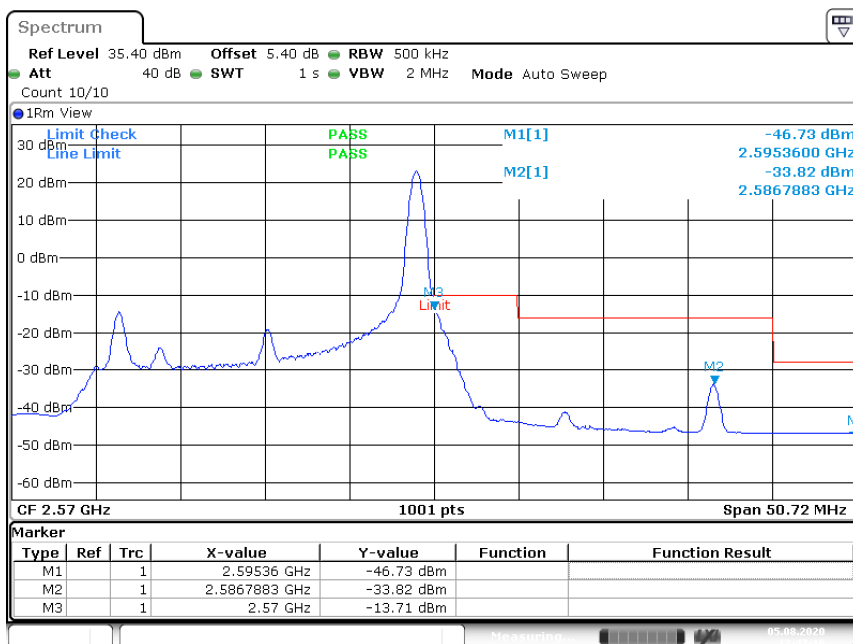
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Date: 5.AUG.2020 09:05:42

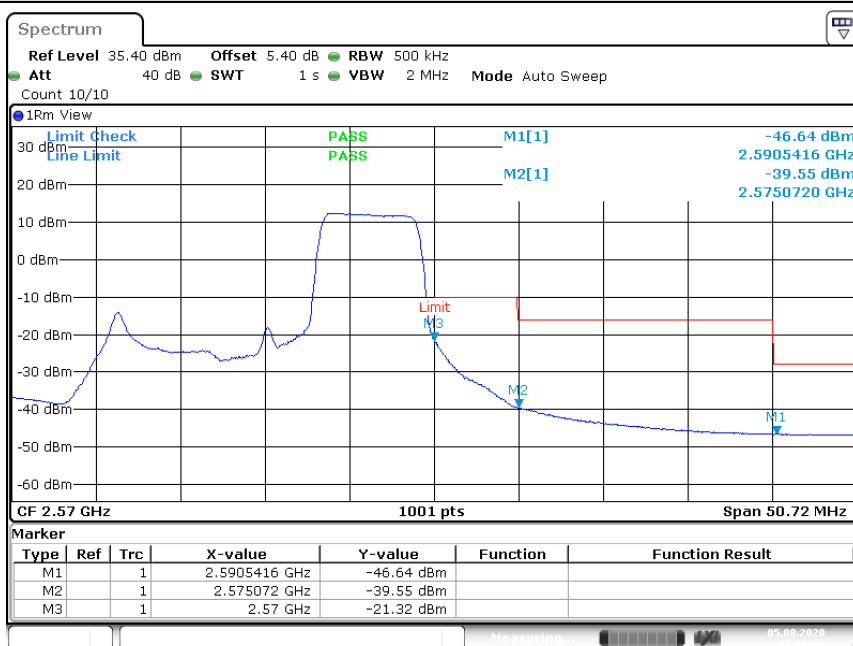


Band7-20MHz-16QAM-21350-1RB#99



Date: 5.AUG.2020 13:47:16

Band7-20MHz-16QAM-21350-32RB#68



Date: 5.AUG.2020 09:06:08

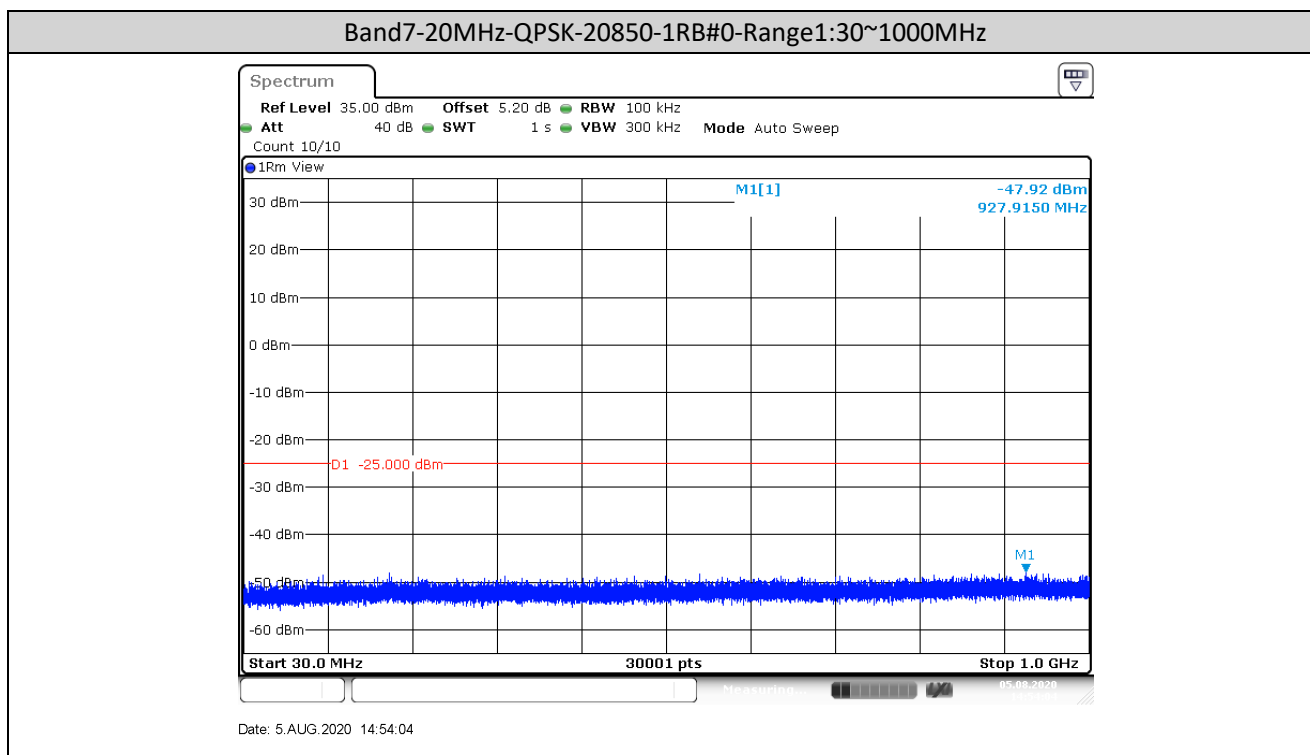


6. Spurious Emission at Antenna Terminal

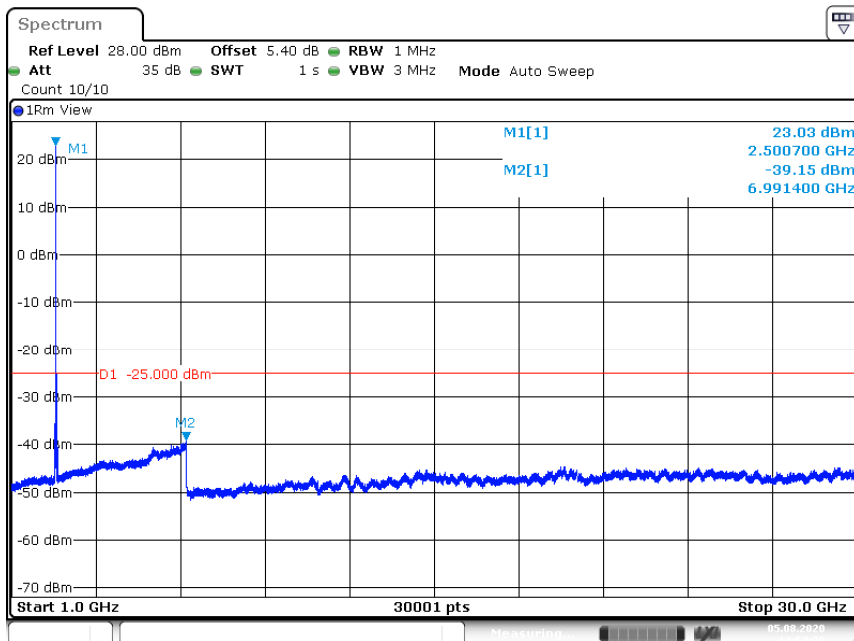
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

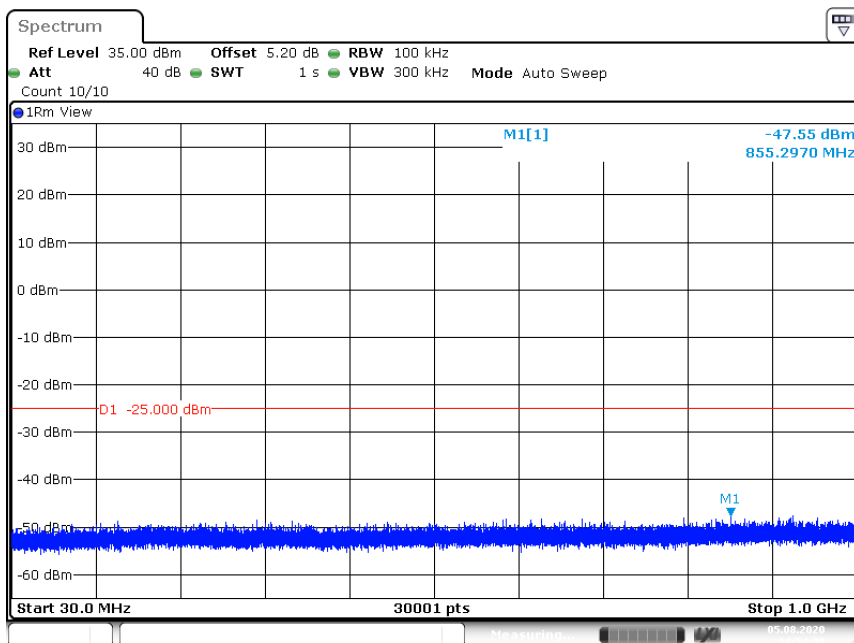
6.1. Test Plots



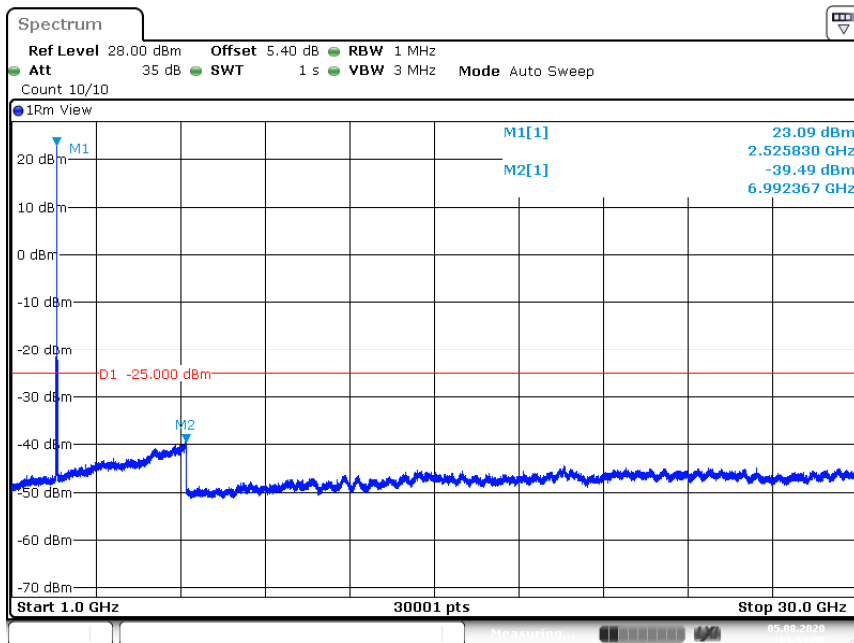
Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



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

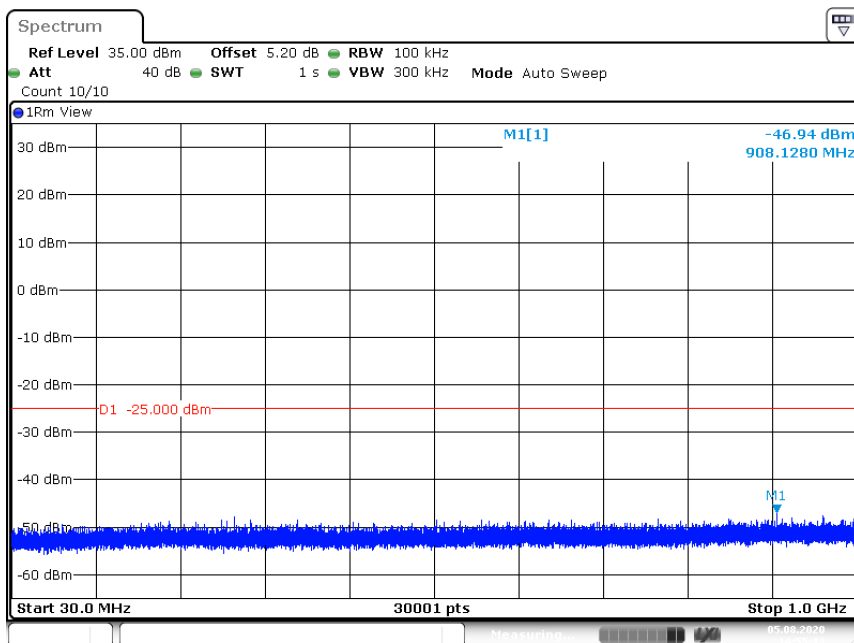


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 5.AUG.2020 14:54:55

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



Date: 5.AUG.2020 14:55:14

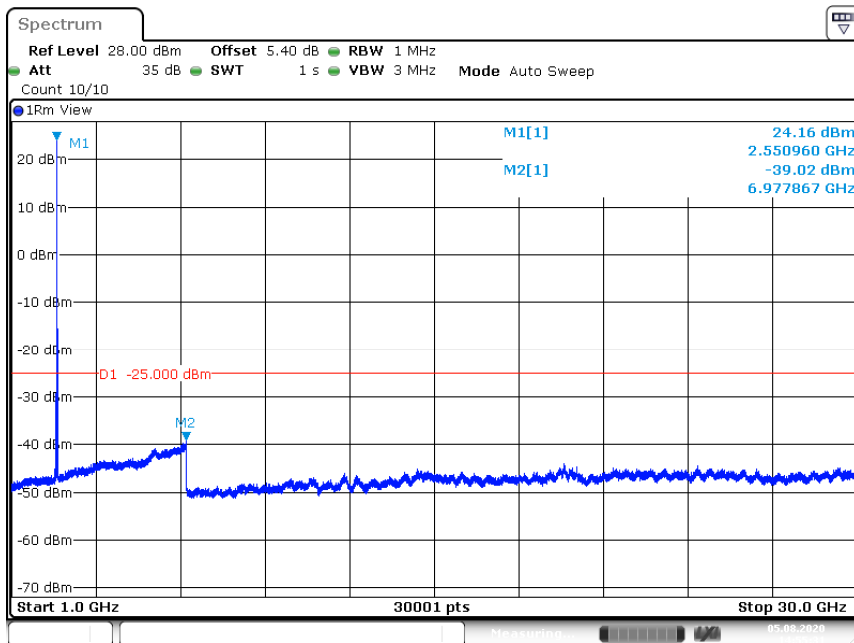


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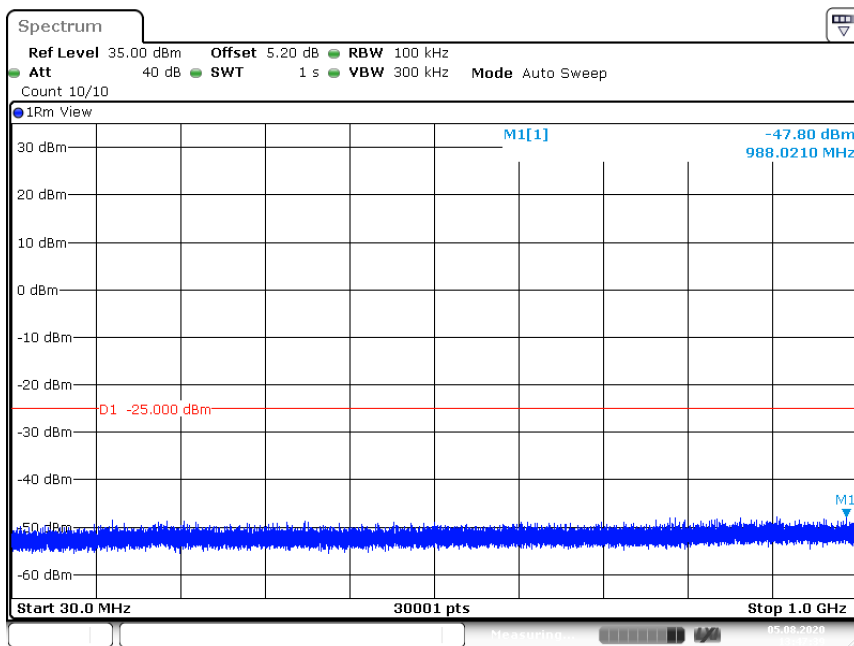
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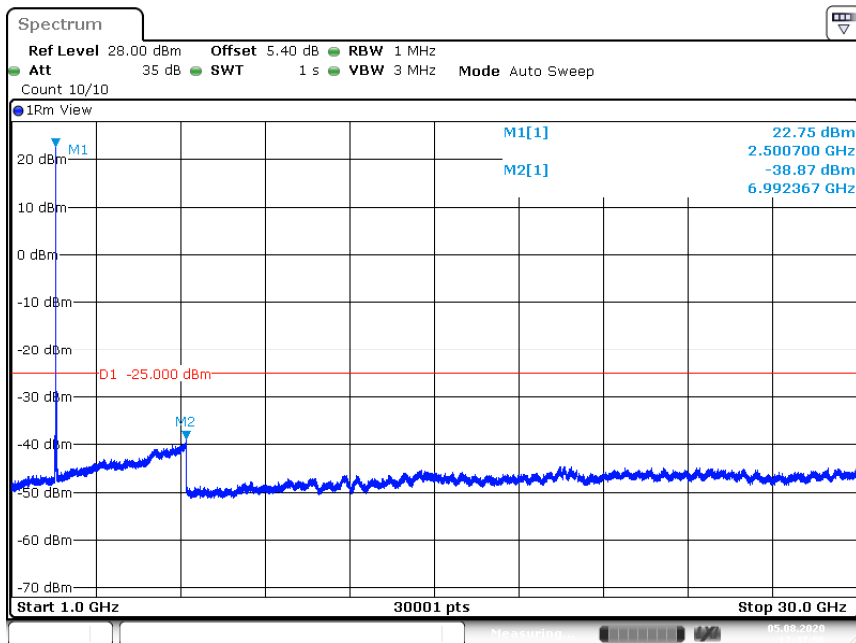
Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



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

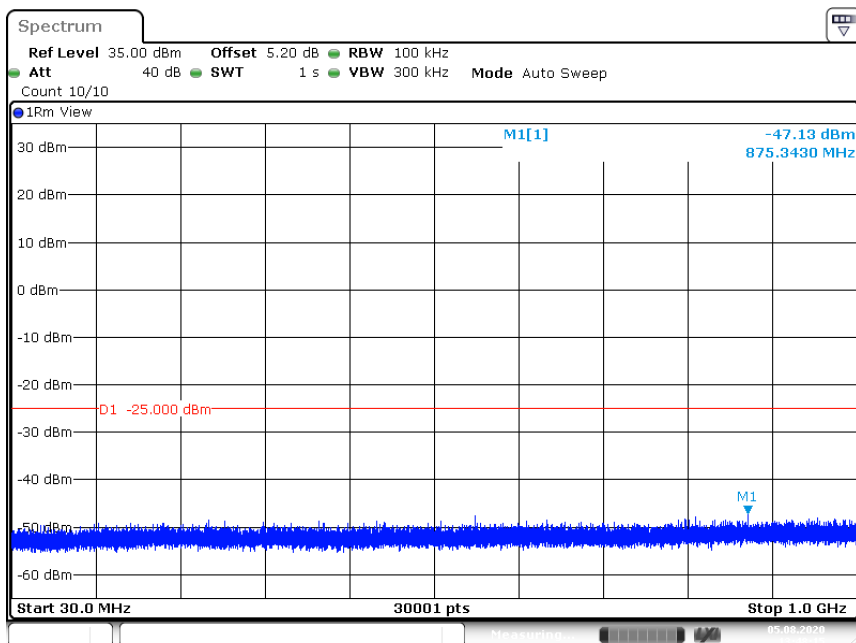


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 5.AUG.2020 13:47:56

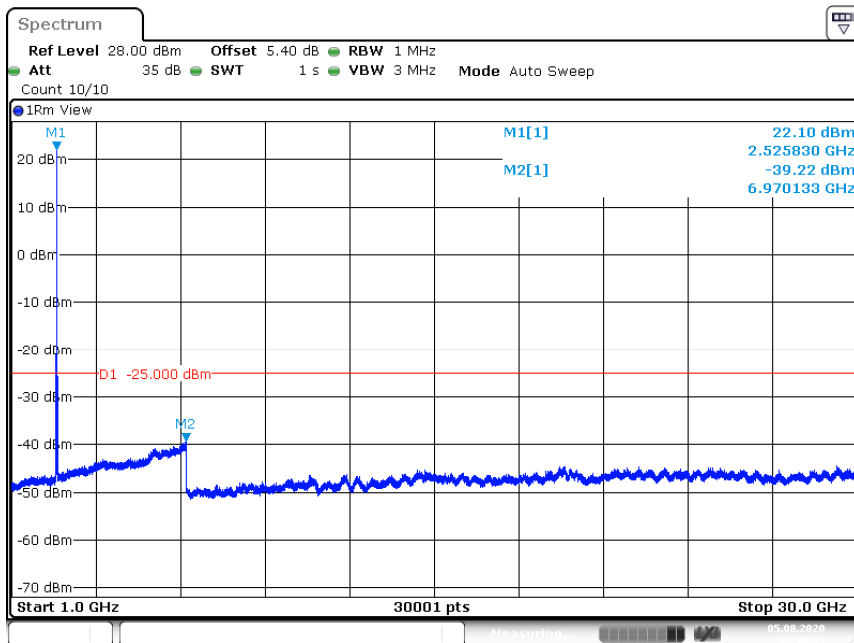
Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 13:48:15

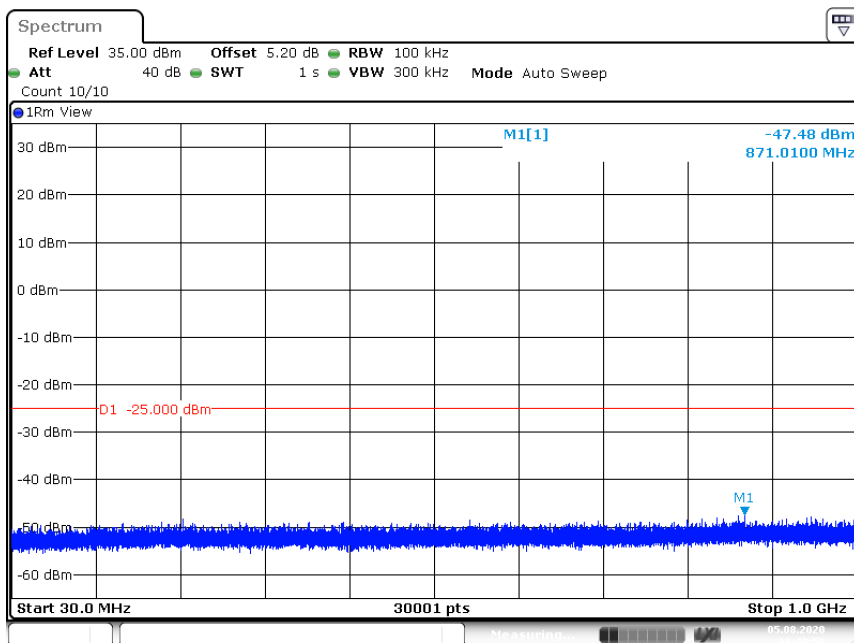


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 5.AUG.2020 13:48:31

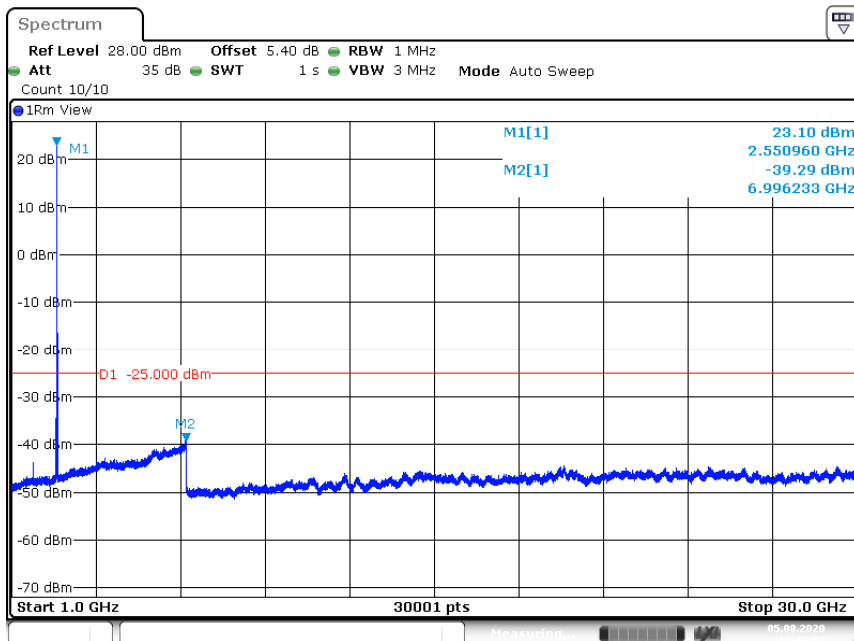
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 13:48:50



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



Date: 5.AUG.2020 13:49:07



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
77.2899	-57.92	-25.00	32.92	Vertical
252.6746	-67.71	-25.00	42.71	Vertical
340.3670	-64.03	-25.00	39.03	Vertical
5002.2801	-58.74	-25.00	33.74	Vertical
7503.1801	-53.24	-25.00	28.24	Vertical
17998.1999	-41.66	-25.00	16.66	Vertical
43.7262	-64.77	-25.00	39.77	Horizontal
164.9337	-64.09	-25.00	39.09	Horizontal
341.5311	-64.27	-25.00	39.27	Horizontal
5002.2801	-60.61	-25.00	35.61	Horizontal
7456.3783	-58.10	-25.00	33.10	Horizontal
16400.3360	-45.66	-25.00	20.66	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
78.8904	-57.82	-25.00	32.82	Vertical
248.4549	-67.34	-25.00	42.34	Vertical
348.1274	-65.10	-25.00	40.10	Vertical
5052.0821	-58.34	-25.00	33.34	Vertical
7578.1831	-52.94	-25.00	27.94	Vertical
17996.3999	-41.82	-25.00	16.82	Vertical
78.8904	-65.48	-25.00	40.48	Horizontal
165.1763	-63.81	-25.00	38.81	Horizontal
340.8520	-64.41	-25.00	39.41	Horizontal
5052.0821	-60.37	-25.00	35.37	Horizontal
7467.1787	-58.22	-25.00	33.22	Horizontal
16391.9357	-45.18	-25.00	20.18	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
77.5324	-58.42	-25.00	33.42	Vertical
248.9884	-66.96	-25.00	41.96	Vertical
342.8891	-64.39	-25.00	39.39	Vertical
5101.8841	-59.75	-25.00	34.75	Vertical
7653.1861	-52.85	-25.00	27.85	Vertical
17999.4000	-41.66	-25.00	16.66	Vertical
42.7561	-65.03	-25.00	40.03	Horizontal
165.5643	-64.17	-25.00	39.17	Horizontal
334.4982	-62.80	-25.00	37.80	Horizontal
5101.8841	-60.19	-25.00	35.19	Horizontal
7653.1861	-57.25	-25.00	32.25	Horizontal
16387.1355	-45.72	-25.00	20.72	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	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-4.40	-0.001753	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-9.90	-0.003944	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-2.40	-0.000956	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	6.80	0.002682	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.50	0.000197	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	1.20	0.000473	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	4.20	0.001641	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	6.40	0.002500	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	5.40	0.002109	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	VL	NT	-5.80	-0.002311	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	VN	NT	-2.10	-0.000837	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	VH	NT	-1.40	-0.000558	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	VL	NT	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	VN	NT	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	VH	NT	-3.40	-0.001341	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	VL	NT	0.40	0.000156	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	VN	NT	-4.50	-0.001758	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	VH	NT	0.50	0.000195	±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	-2.40	-0.000956	±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	-10	-3.70	-0.001474	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	1.40	0.000558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	3.80	0.001514	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-1.40	-0.000558	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-1.60	-0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	2.30	0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	1.50	0.000598	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	2.90	0.001144	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	7.10	0.002801	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	4.80	0.001893	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1.80	-0.000710	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	4.00	0.001578	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	4.30	0.001696	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-6.30	-0.002485	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-6.60	-0.002604	±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	-20	3.50	0.001367	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	-7.20	-0.002813	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	0.40	0.000156	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	1.30	0.000508	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	8.50	0.003320	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-2.50	-0.000977	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	-30	2.10	0.000837	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	-20	-2.80	-0.001116	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	-10	4.90	0.001914	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	0	-2.00	-0.000797	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	20	-2.80	-0.001116	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	30	-2.00	-0.000797	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	40	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	16QAM	20850	32RB#0	NV	50	-6.60	-0.002629	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	-30	-2.90	-0.001144	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	-20	-10.00	-0.003945	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	-10	-3.10	-0.001223	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	0	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	10	-2.70	-0.001065	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	20	-3.70	-0.001460	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	30	-2.30	-0.000907	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	40	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	16QAM	21100	32RB#0	NV	50	-8.70	-0.003432	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	-30	-4.60	-0.001797	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	-20	-1.00	-0.000391	±2.5	PASS



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Band7	20MHz	16QAM	21350	32RB#0	NV	-10	-3.60	-0.001406	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	0	-0.10	-0.000039	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	10	-1.90	-0.000742	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	20	-7.30	-0.002852	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	30	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	40	-0.40	-0.000156	±2.5	PASS
Band7	20MHz	16QAM	21350	32RB#0	NV	50	-1.80	-0.000703	±2.5	PASS

