



Appendix B

E-UTRA Band 41



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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
Band41	5MHz	QPSK	39675	1RB#12	25.08	24.28	33	PASS
Band41	5MHz	QPSK	39675	1RB#0	24.82	24.02	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.94	24.14	33	PASS
Band41	5MHz	QPSK	39675	12RB#13	24.15	23.35	33	PASS
Band41	5MHz	QPSK	39675	12RB#0	23.90	23.1	33	PASS
Band41	5MHz	QPSK	39675	12RB#6	23.89	23.09	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.75	22.95	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.87	24.07	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.21	24.41	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.75	23.95	33	PASS
Band41	5MHz	QPSK	40620	12RB#0	24.09	23.29	33	PASS
Band41	5MHz	QPSK	40620	12RB#6	24.08	23.28	33	PASS
Band41	5MHz	QPSK	40620	12RB#13	23.95	23.15	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.93	23.13	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.39	23.59	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.56	23.76	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.44	23.64	33	PASS
Band41	5MHz	QPSK	41565	12RB#0	23.58	22.78	33	PASS
Band41	5MHz	QPSK	41565	12RB#6	23.60	22.8	33	PASS
Band41	5MHz	QPSK	41565	12RB#13	23.48	22.68	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.53	22.73	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.61	22.81	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.45	22.65	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.58	22.78	33	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.02	22.22	33	PASS
Band41	5MHz	16QAM	39675	12RB#0	23.06	22.26	33	PASS
Band41	5MHz	16QAM	39675	12RB#6	23.05	22.25	33	PASS



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Band41	5MHz	16QAM	39675	25RB#0	22.97	22.17	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.55	22.75	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.65	22.85	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.52	22.72	33	PASS
Band41	5MHz	16QAM	40620	12RB#0	23.05	22.25	33	PASS
Band41	5MHz	16QAM	40620	12RB#6	23.00	22.2	33	PASS
Band41	5MHz	16QAM	40620	12RB#13	22.96	22.16	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.11	22.31	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.20	22.4	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.32	22.52	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.20	22.4	33	PASS
Band41	5MHz	16QAM	41565	12RB#13	22.66	21.86	33	PASS
Band41	5MHz	16QAM	41565	12RB#6	22.77	21.97	33	PASS
Band41	5MHz	16QAM	41565	12RB#0	22.83	22.03	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.62	21.82	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.95	24.15	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.06	24.26	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.20	24.4	33	PASS
Band41	10MHz	QPSK	39700	25RB#12	23.91	23.11	33	PASS
Band41	10MHz	QPSK	39700	25RB#0	23.93	23.13	33	PASS
Band41	10MHz	QPSK	39700	25RB#25	23.72	22.92	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.77	22.97	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.81	24.01	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.78	23.98	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.27	24.47	33	PASS
Band41	10MHz	QPSK	40620	25RB#25	23.93	23.13	33	PASS
Band41	10MHz	QPSK	40620	25RB#12	24.03	23.23	33	PASS
Band41	10MHz	QPSK	40620	25RB#0	24.23	23.43	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.92	23.12	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.88	24.08	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.52	23.72	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.54	23.74	33	PASS
Band41	10MHz	QPSK	41540	25RB#0	23.63	22.83	33	PASS



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Band41	10MHz	QPSK	41540	25RB#25	23.44	22.64	33	PASS
Band41	10MHz	QPSK	41540	25RB#12	23.55	22.75	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.54	22.74	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.47	22.67	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.45	22.65	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.77	22.97	33	PASS
Band41	10MHz	16QAM	39700	25RB#0	22.92	22.12	33	PASS
Band41	10MHz	16QAM	39700	25RB#25	23.04	22.24	33	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.10	22.3	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.88	22.08	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.57	22.77	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.90	23.1	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	23.46	22.66	33	PASS
Band41	10MHz	16QAM	40620	25RB#12	23.18	22.38	33	PASS
Band41	10MHz	16QAM	40620	25RB#25	23.10	22.3	33	PASS
Band41	10MHz	16QAM	40620	25RB#0	23.09	22.29	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.99	22.19	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.37	22.57	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.20	22.4	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.15	22.35	33	PASS
Band41	10MHz	16QAM	41540	25RB#0	22.69	21.89	33	PASS
Band41	10MHz	16QAM	41540	25RB#12	22.79	21.99	33	PASS
Band41	10MHz	16QAM	41540	25RB#25	22.68	21.88	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.63	21.83	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.57	23.77	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.83	24.03	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.78	23.98	33	PASS
Band41	15MHz	QPSK	39725	36RB#18	23.89	23.09	33	PASS
Band41	15MHz	QPSK	39725	36RB#39	23.68	22.88	33	PASS
Band41	15MHz	QPSK	39725	36RB#0	23.79	22.99	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.71	22.91	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.73	23.93	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.01	24.21	33	PASS



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Band41	15MHz	QPSK	40620	1RB#74	24.68	23.88	33	PASS
Band41	15MHz	QPSK	40620	36RB#39	23.92	23.12	33	PASS
Band41	15MHz	QPSK	40620	36RB#18	24.05	23.25	33	PASS
Band41	15MHz	QPSK	40620	36RB#0	24.02	23.22	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.94	23.14	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.40	23.6	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.78	23.98	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.38	23.58	33	PASS
Band41	15MHz	QPSK	41515	36RB#0	23.62	22.82	33	PASS
Band41	15MHz	QPSK	41515	36RB#39	23.64	22.84	33	PASS
Band41	15MHz	QPSK	41515	36RB#18	24.02	23.22	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.54	22.74	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.44	22.64	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.32	22.52	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.41	22.61	33	PASS
Band41	15MHz	16QAM	39725	36RB#18	22.93	22.13	33	PASS
Band41	15MHz	16QAM	39725	36RB#0	23.02	22.22	33	PASS
Band41	15MHz	16QAM	39725	36RB#39	23.00	22.2	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.75	21.95	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.54	22.74	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.58	22.78	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.48	22.68	33	PASS
Band41	15MHz	16QAM	40620	36RB#18	22.92	22.12	33	PASS
Band41	15MHz	16QAM	40620	36RB#39	23.11	22.31	33	PASS
Band41	15MHz	16QAM	40620	36RB#0	23.11	22.31	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.99	22.19	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.35	22.55	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.16	22.36	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.11	22.31	33	PASS
Band41	15MHz	16QAM	41515	36RB#0	22.89	22.09	33	PASS
Band41	15MHz	16QAM	41515	36RB#18	22.66	21.86	33	PASS
Band41	15MHz	16QAM	41515	36RB#39	22.70	21.9	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.67	21.87	33	PASS



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Band41	20MHz	QPSK	39750	1RB#49	24.85	24.05	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.46	23.66	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.78	23.98	33	PASS
Band41	20MHz	QPSK	39750	50RB#0	23.70	22.9	33	PASS
Band41	20MHz	QPSK	39750	50RB#25	23.84	23.04	33	PASS
Band41	20MHz	QPSK	39750	50RB#50	23.59	22.79	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.57	22.77	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.60	23.8	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.13	24.33	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.64	23.84	33	PASS
Band41	20MHz	QPSK	40620	50RB#25	24.05	23.25	33	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.06	23.26	33	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.98	23.18	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.87	23.07	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.48	23.68	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.33	23.53	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.69	23.89	33	PASS
Band41	20MHz	QPSK	41490	50RB#0	23.55	22.75	33	PASS
Band41	20MHz	QPSK	41490	50RB#25	23.64	22.84	33	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.47	22.67	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.58	22.78	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.28	22.48	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.61	22.81	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.09	22.29	33	PASS
Band41	20MHz	16QAM	39750	50RB#50	22.79	21.99	33	PASS
Band41	20MHz	16QAM	39750	50RB#25	22.76	21.96	33	PASS
Band41	20MHz	16QAM	39750	50RB#0	22.79	21.99	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.72	21.92	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.34	22.54	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.90	23.1	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.38	22.58	33	PASS
Band41	20MHz	16QAM	40620	50RB#25	23.26	22.46	33	PASS
Band41	20MHz	16QAM	40620	50RB#50	22.96	22.16	33	PASS



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Band41	20MHz	16QAM	40620	50RB#0	22.96	22.16	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.96	22.16	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.43	22.63	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.17	22.37	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.97	22.17	33	PASS
Band41	20MHz	16QAM	41490	50RB#0	22.54	21.74	33	PASS
Band41	20MHz	16QAM	41490	50RB#25	22.57	21.77	33	PASS
Band41	20MHz	16QAM	41490	50RB#50	22.54	21.74	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.93	22.13	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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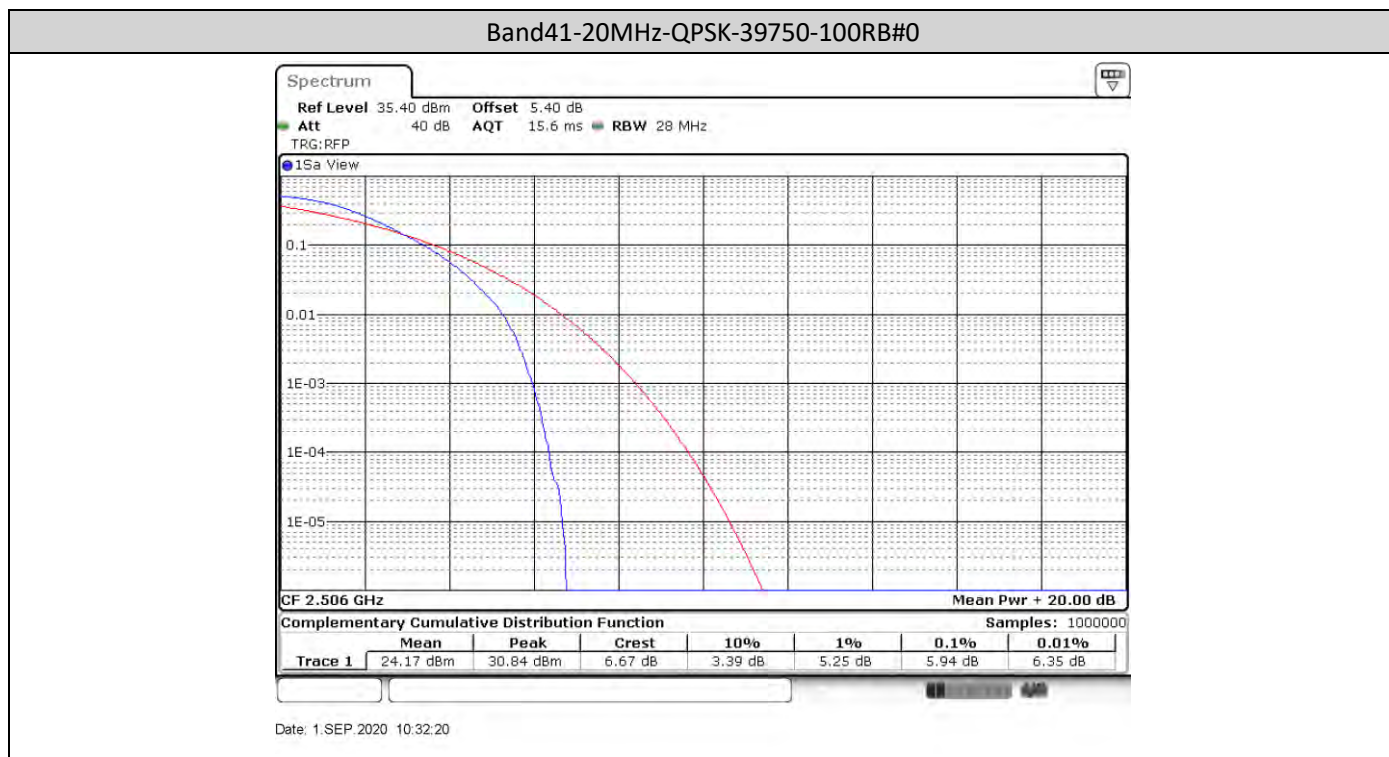


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

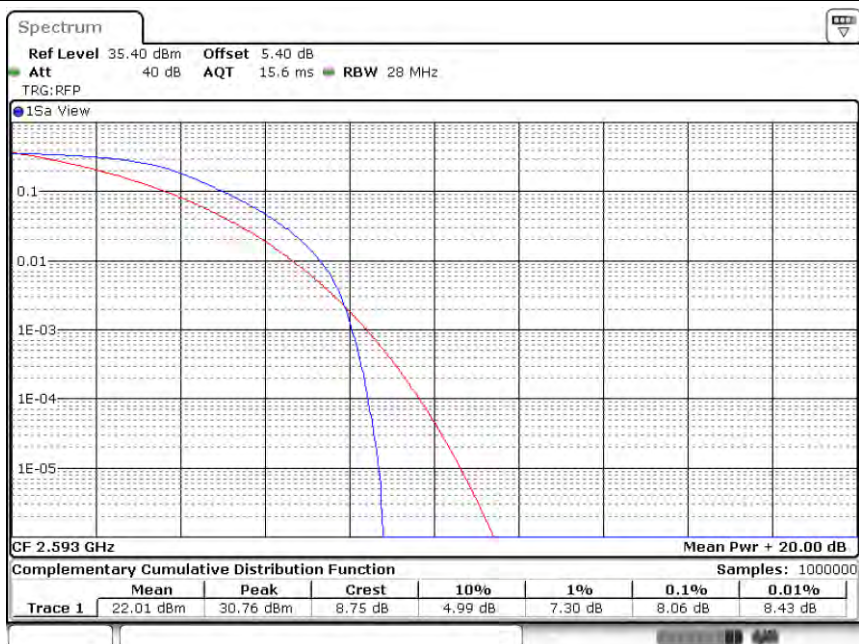
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	5.94	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.06	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.03	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.90	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.99	13	PASS

2.2. Test Plots



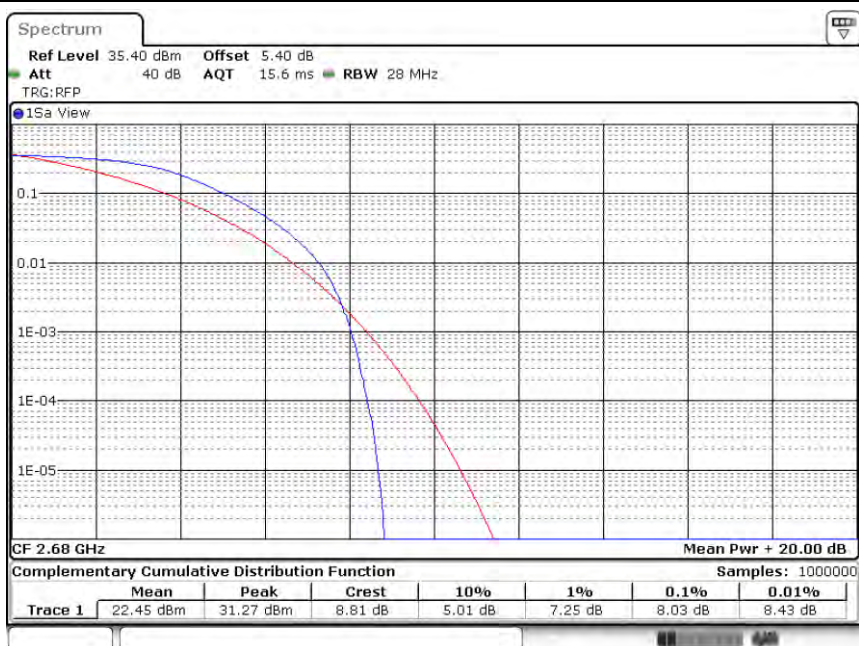


Band41-20MHz-QPSK-40620-100RB#0



Date: 1.SEP 2020 10:32:42

Band41-20MHz-QPSK-41490-100RB#0

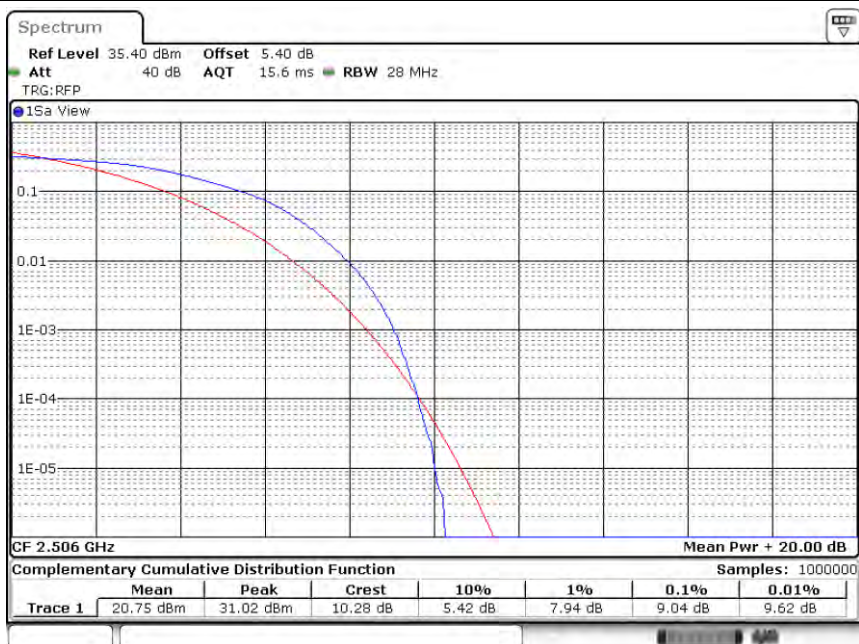


Date: 1.SEP 2020 10:33:04



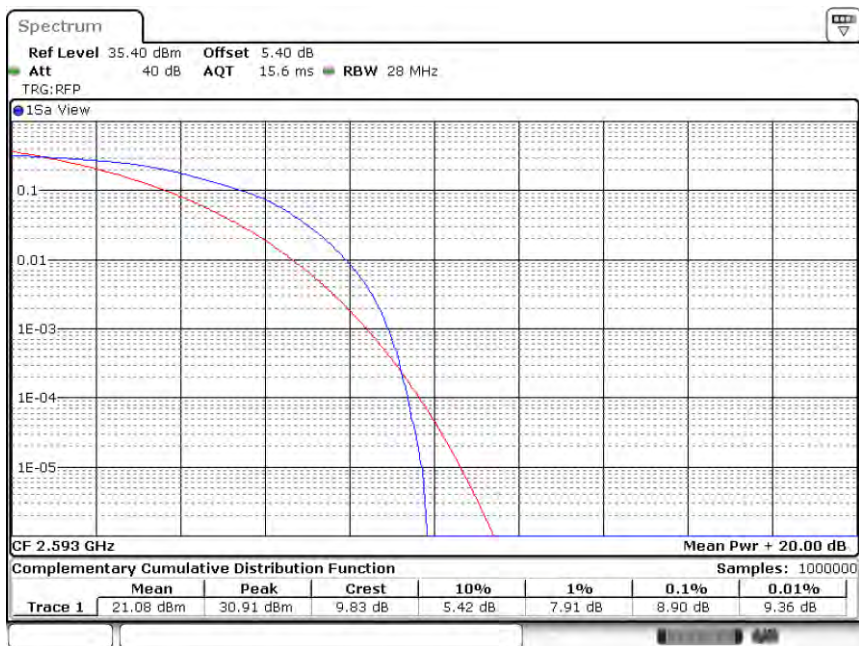


Band41-20MHz-16QAM-39750-100RB#0



Date: 1.SEP 2020 10:32:31

Band41-20MHz-16QAM-40620-100RB#0



Date: 1.SEP 2020 10:32:53



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Band41-20MHz-16QAM-41490-100RB#0



Date: 1.SEP.2020 10:33:15

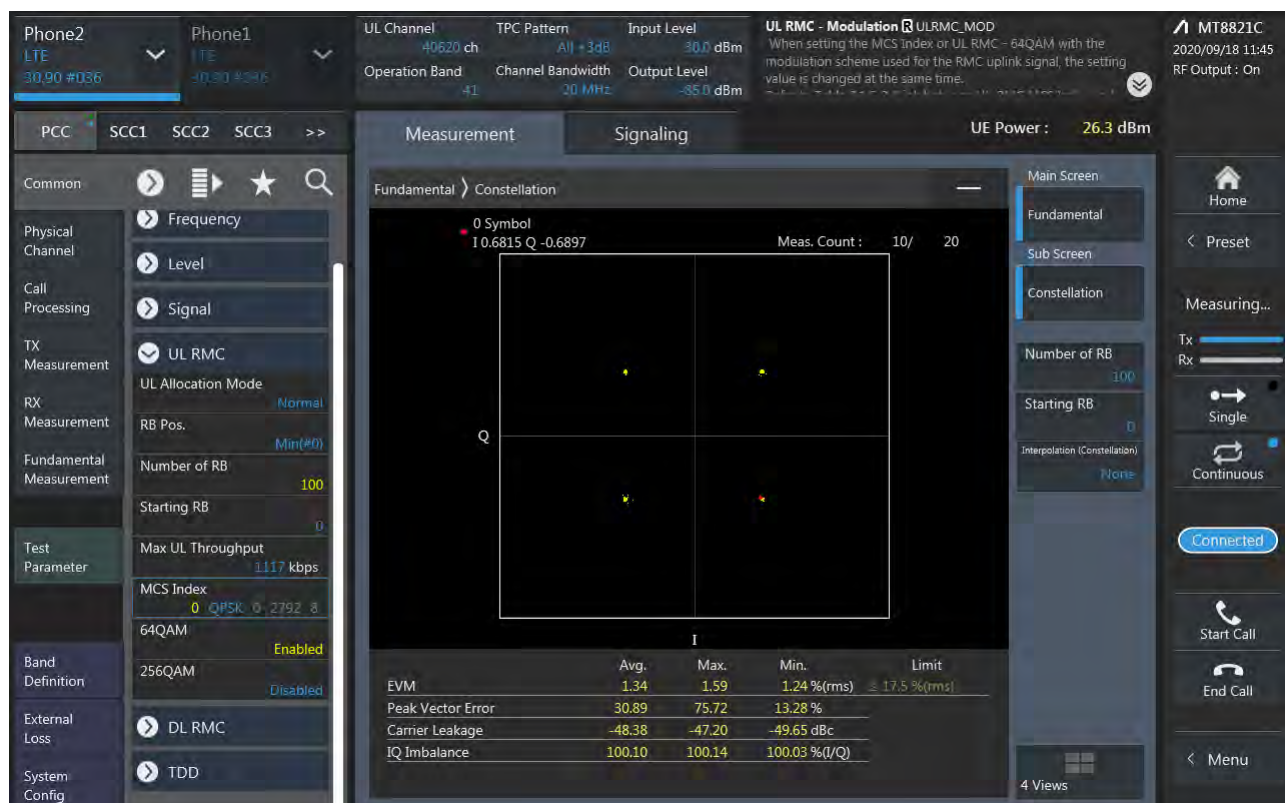




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

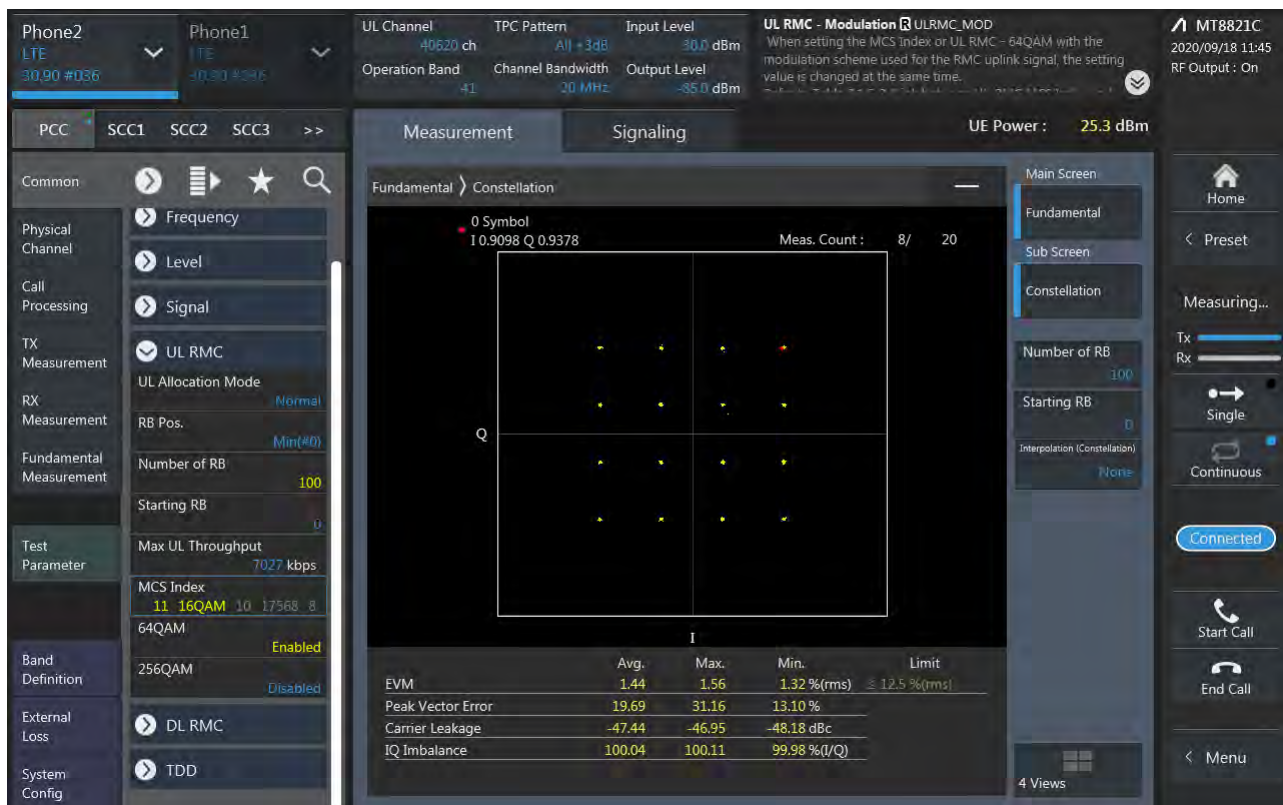
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

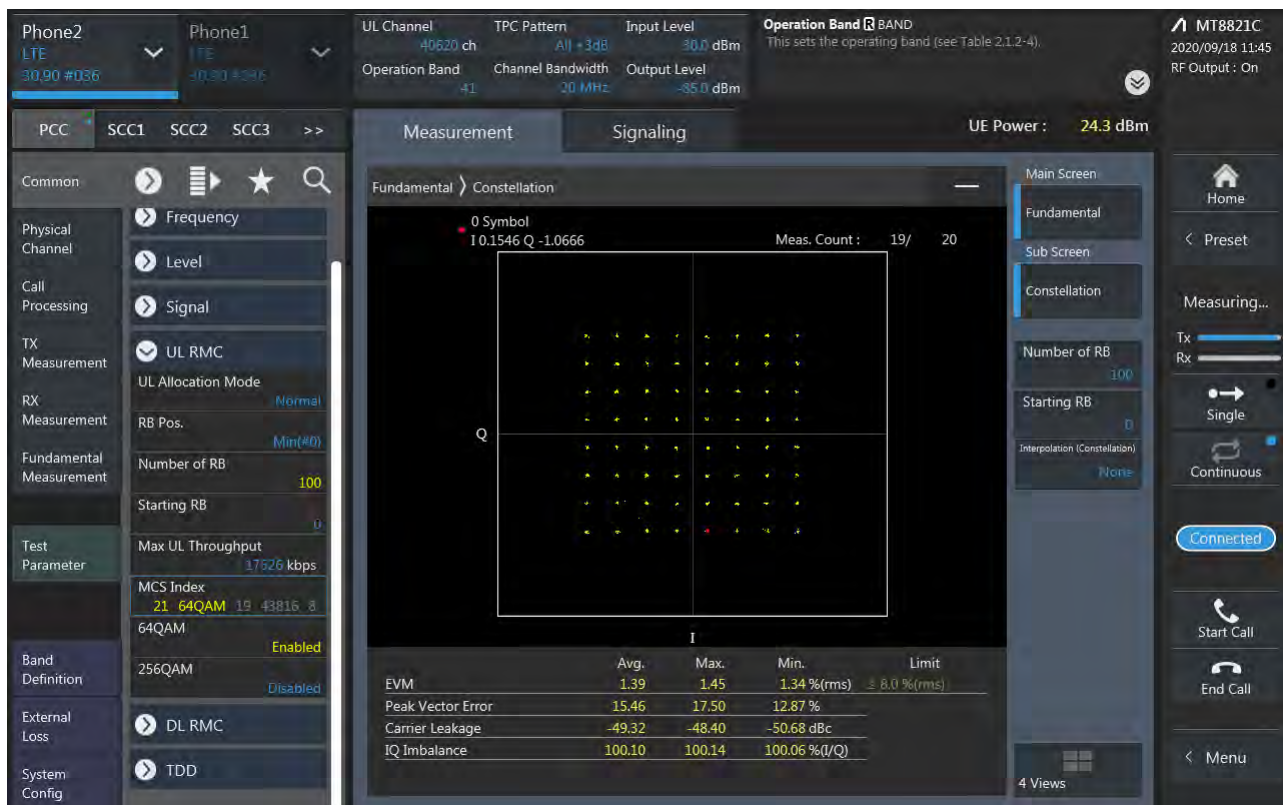
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. 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
Band41	5MHz	QPSK	39675	25RB#0	4.476	4.980	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.466	5.000	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.970	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	4.960	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.496	4.980	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.505	4.980	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.891	9.660	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.891	9.660	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.660	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.640	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.640	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.660	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	16.380	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.516	16.380	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.516	16.560	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.487	15.210	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.457	15.180	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	15.180	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.862	19.840	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.840	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	19.960	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.822	19.360	PASS



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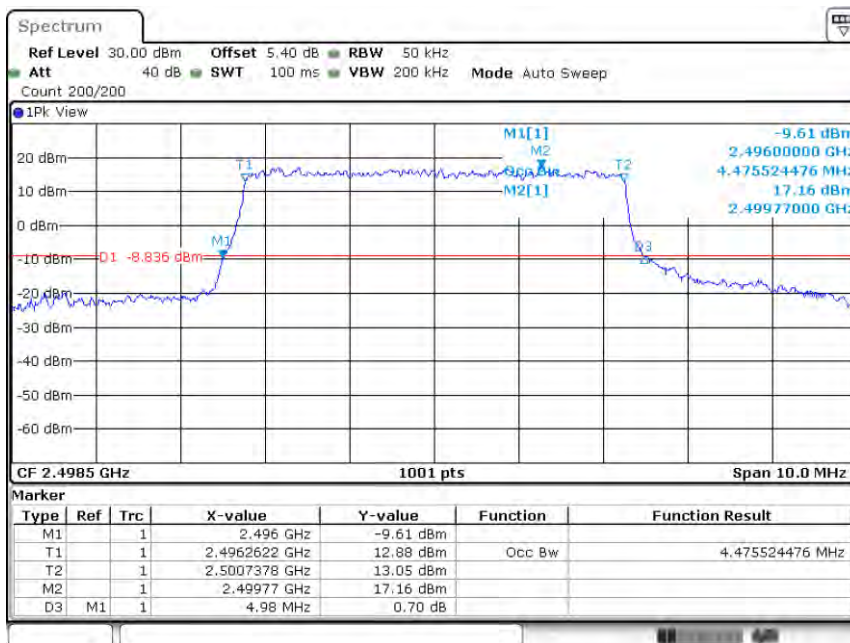
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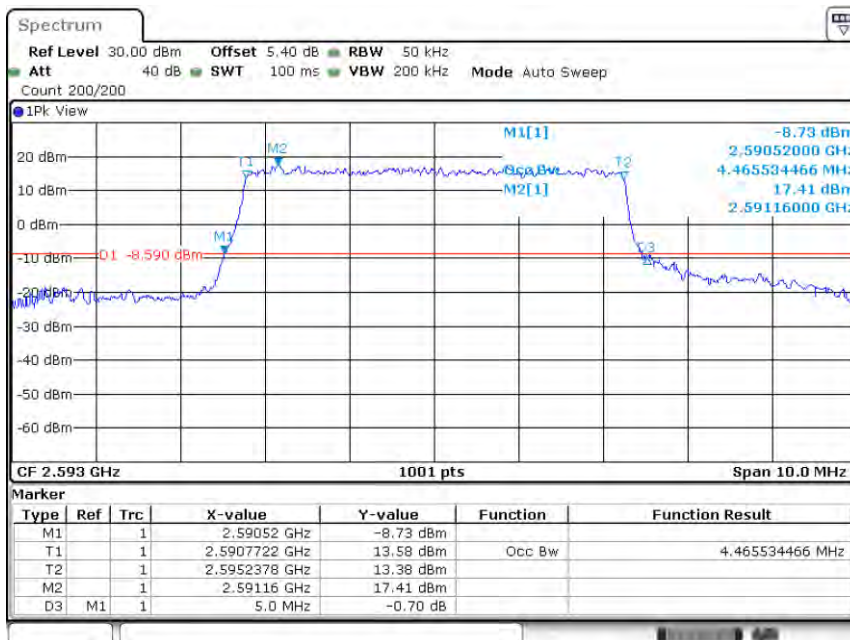
4.2. Test Plots

Band41-5MHz-QPSK-39675-25RB#0-4.476



Date: 1.SEP.2020 09:58:09

Band41-5MHz-QPSK-40620-25RB#0-4.466



Date: 1.SEP.2020 10:00:00

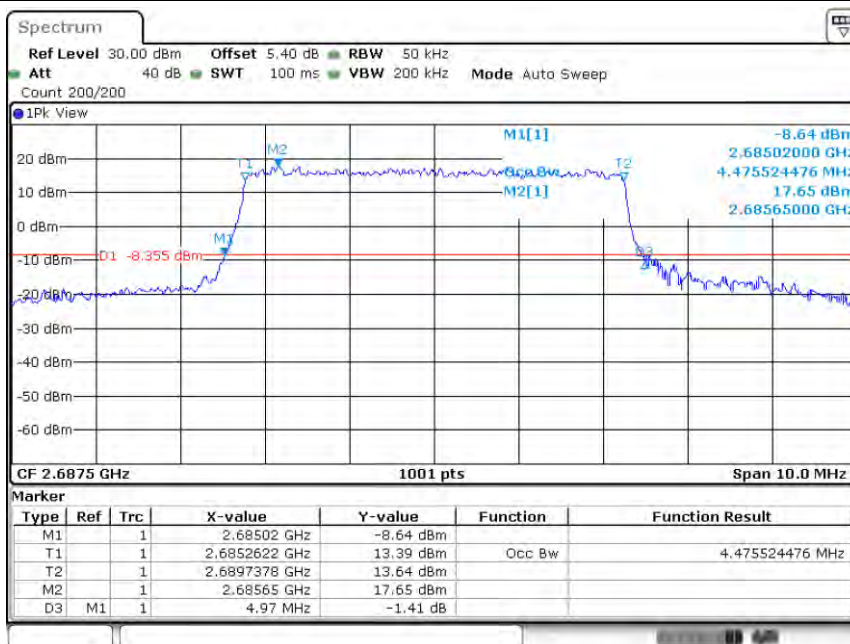


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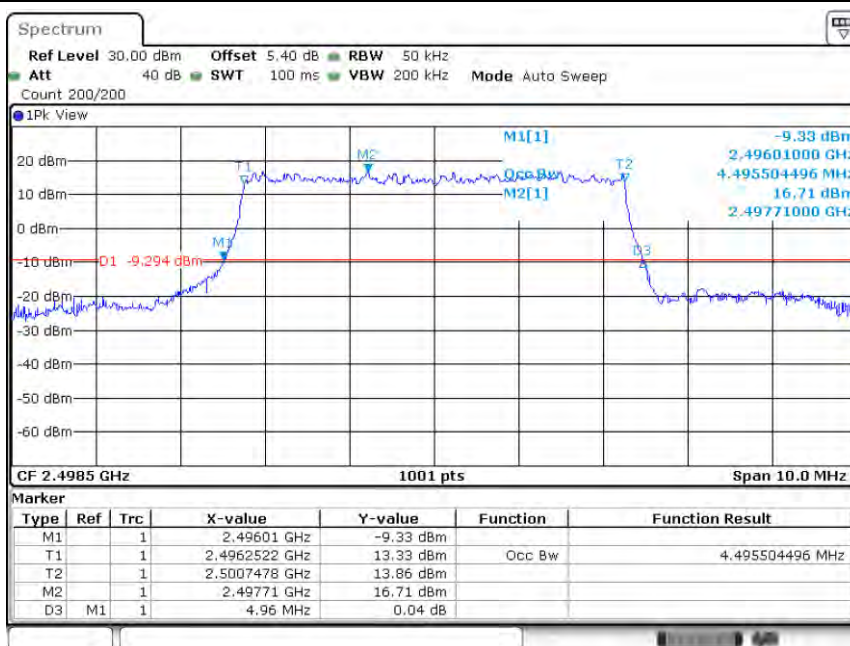


Band41-5MHz-QPSK-41565-25RB#0-4.476



Date: 1.SEP.2020 10:01:08

Band41-5MHz-16QAM-39675-25RB#0-4.496



Date: 1.SEP.2020 09:58:42



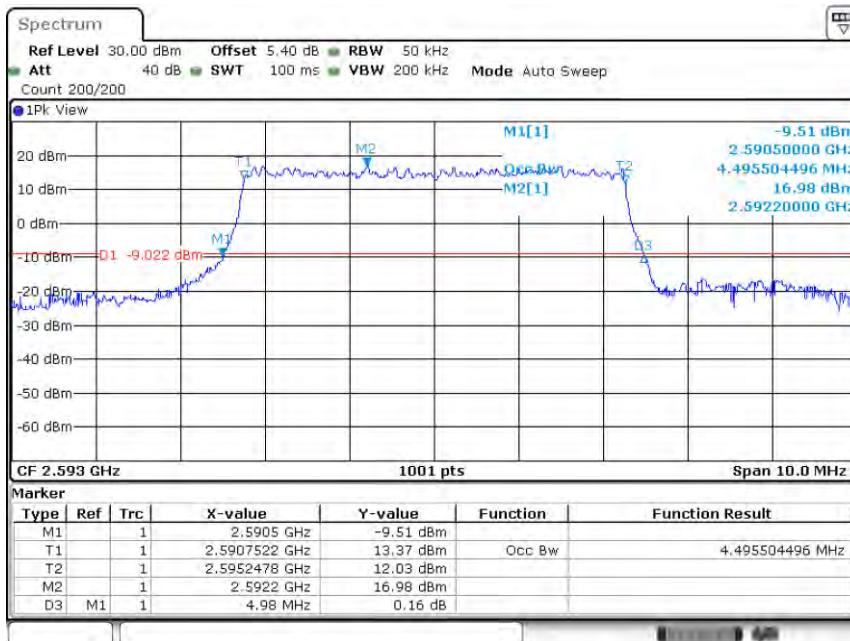
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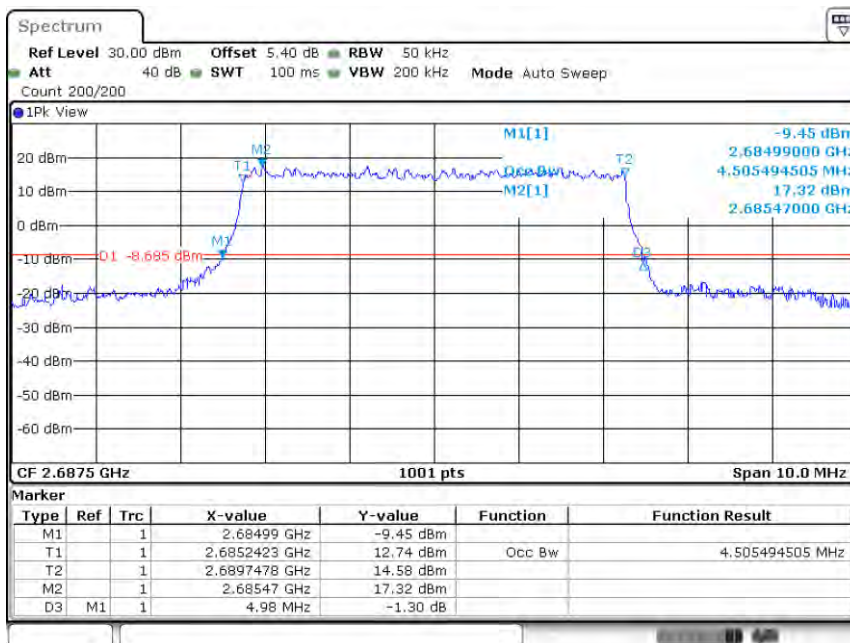


Band41-5MHz-16QAM-40620-25RB#0-4.496



Date: 1.SEP.2020 10:00:35

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Date: 1.SEP.2020 10:01:41

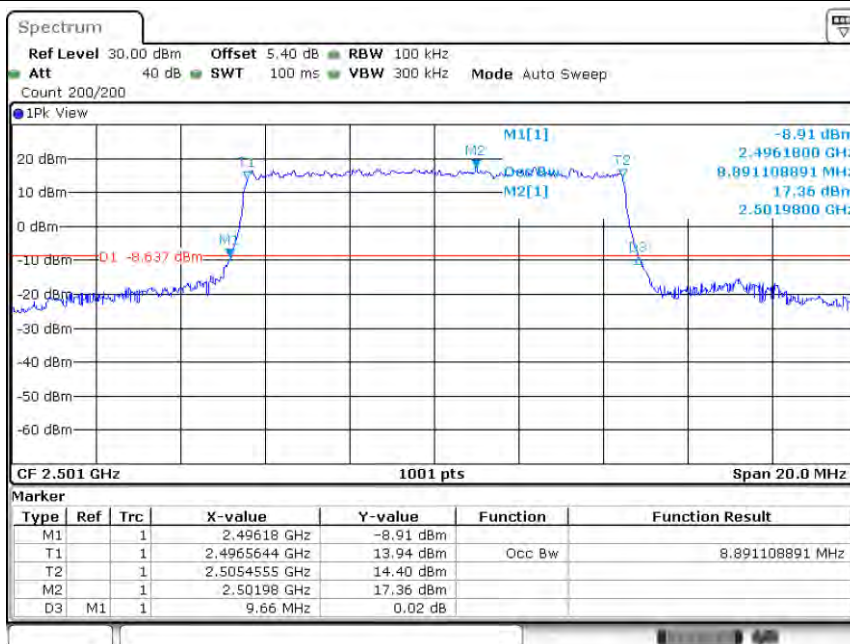


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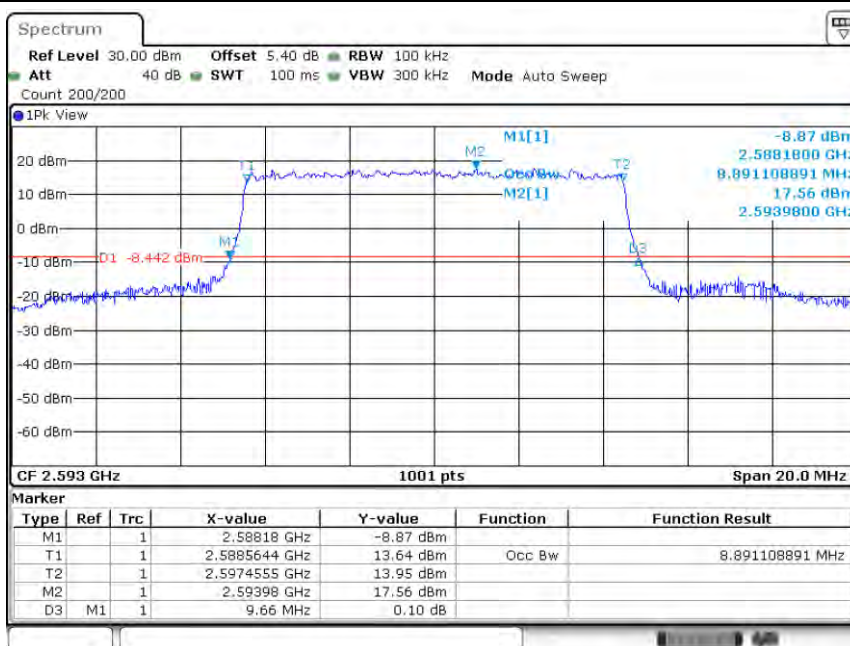


Band41-10MHz-QPSK-39700-50RB#0-8.891



Date: 1.SEP.2020 10:02:19

Band41-10MHz-QPSK-40620-50RB#0-8.891

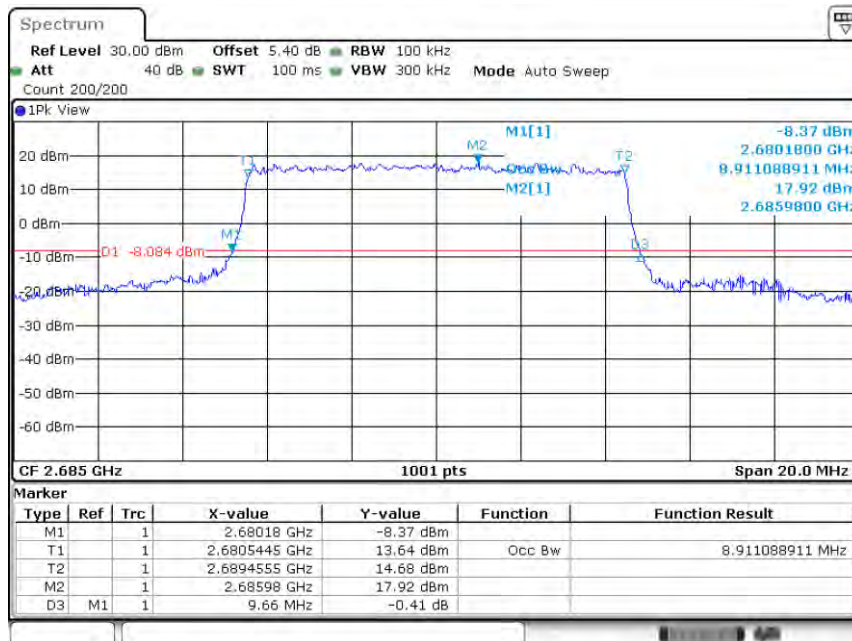


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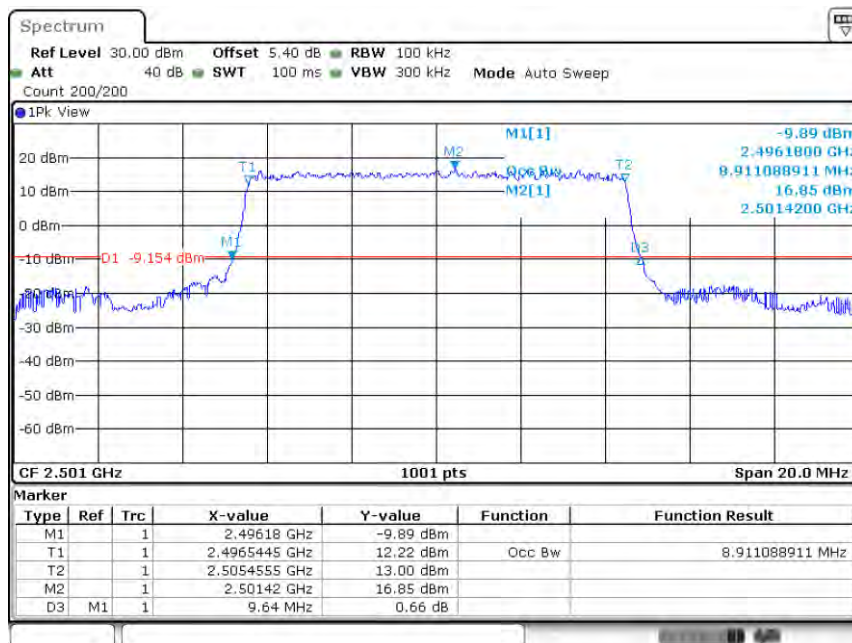


Band41-10MHz-QPSK-41540-50RB#0-8.911



Date: 1.SEP.2020 10:04:30

Band41-10MHz-16QAM-39700-50RB#0-8.911



Date: 1.SEP.2020 10:02:51

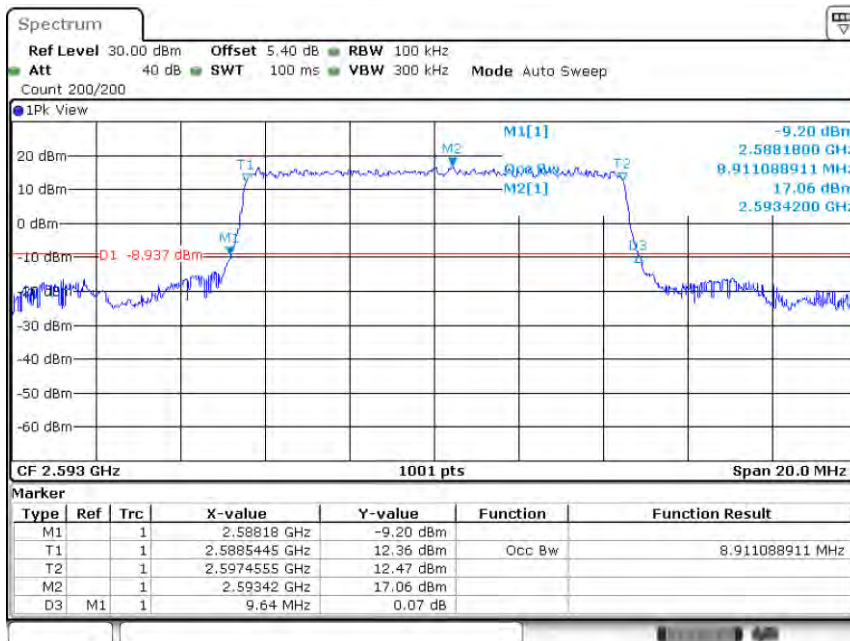


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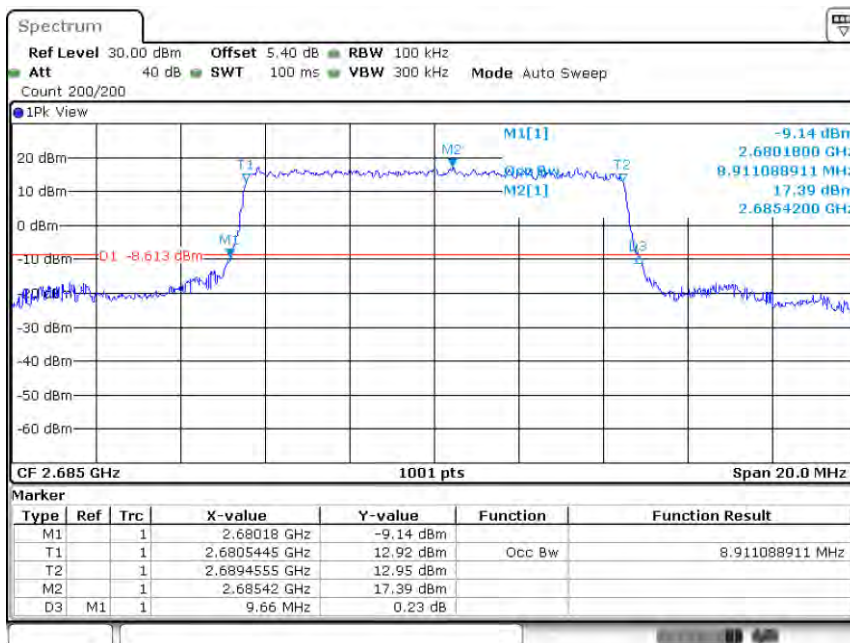


Band41-10MHz-16QAM-40620-50RB#0-8.911



Date: 1.SEP.2020 10:03:57

Band41-10MHz-16QAM-41540-50RB#0-8.911

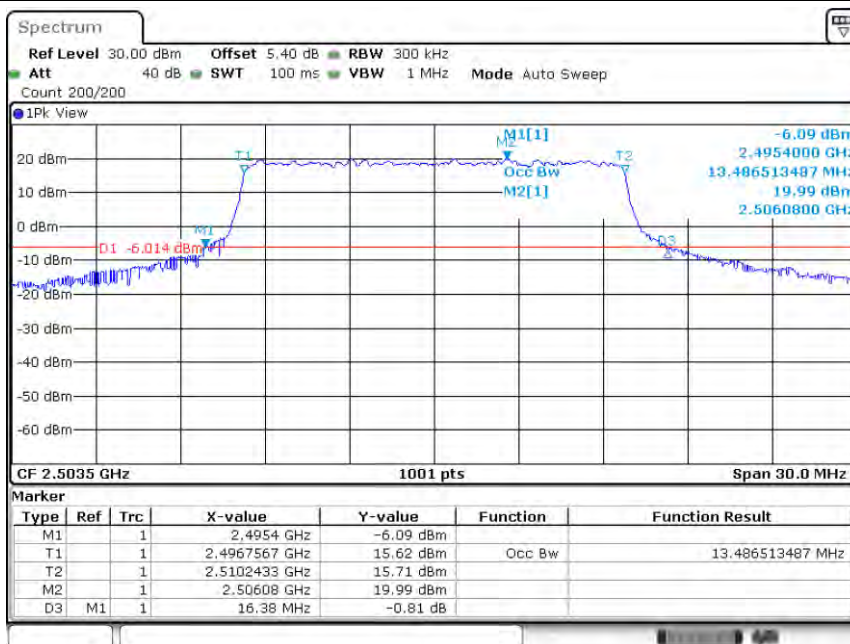


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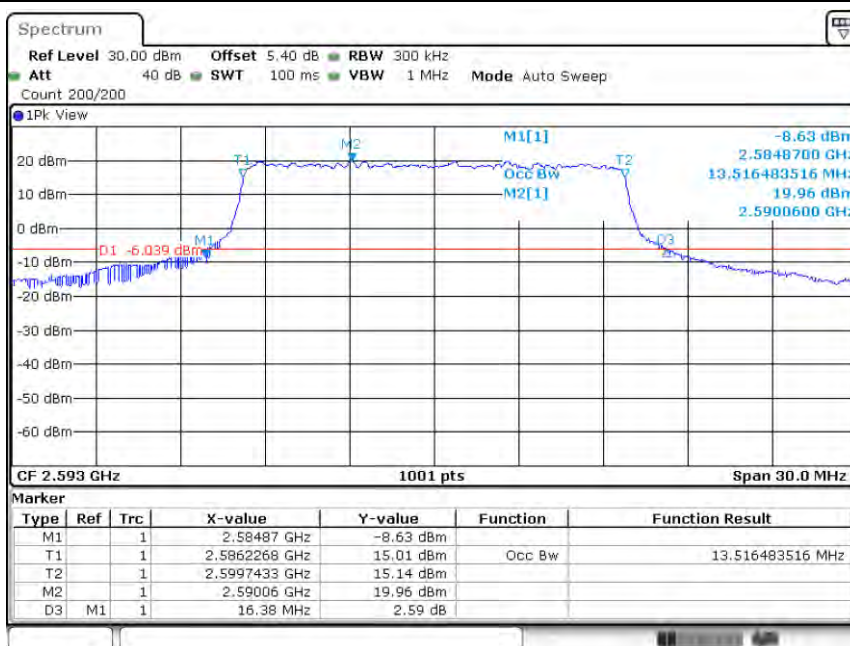


Band41-15MHz-QPSK-39725-75RB#0-13.487



Date: 3.SEP.2020 11:51:22

Band41-15MHz-QPSK-40620-75RB#0-13.516



Date: 3.SEP.2020 11:53:47

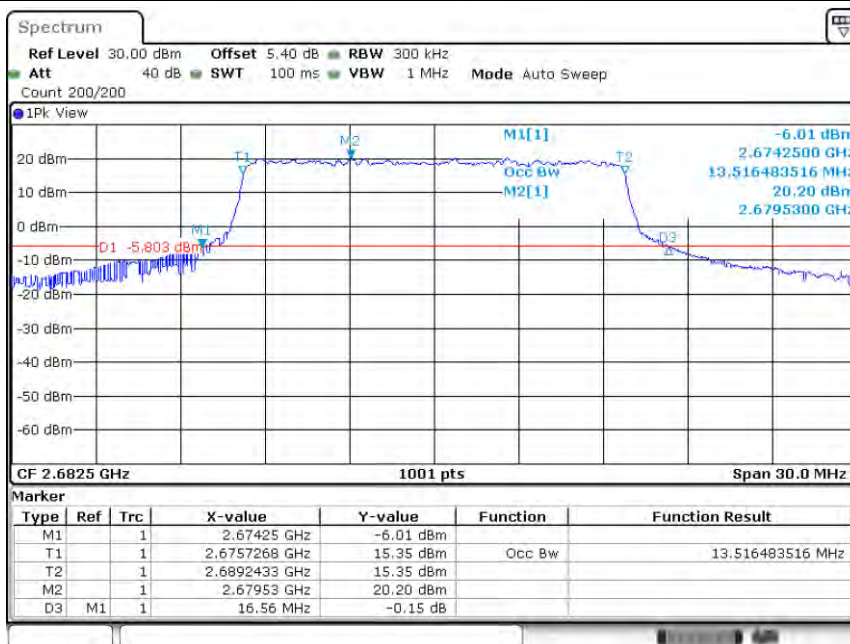


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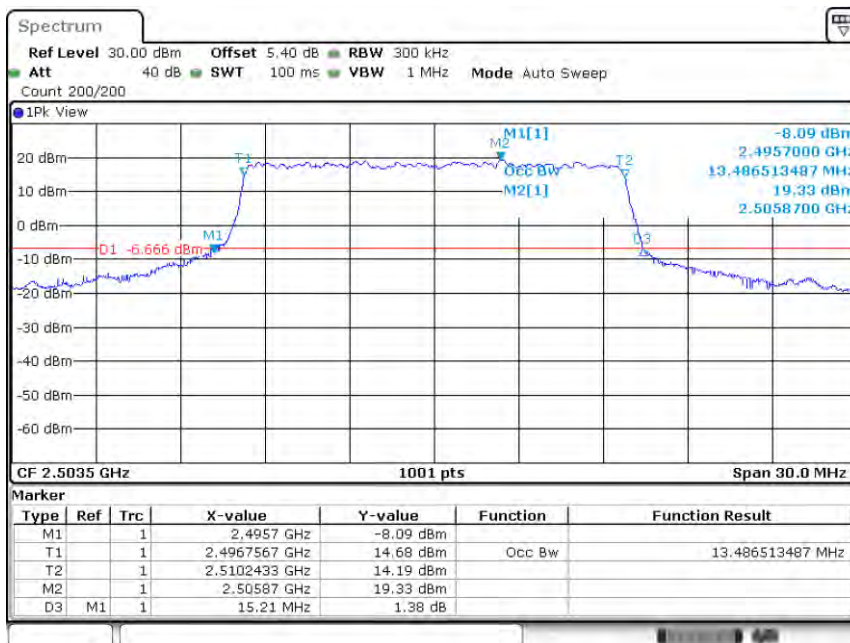


Band41-15MHz-QPSK-41515-75RB#0-13.516



Date: 3.SEP.2020 11:58:14

Band41-15MHz-16QAM-39725-75RB#0-13.487



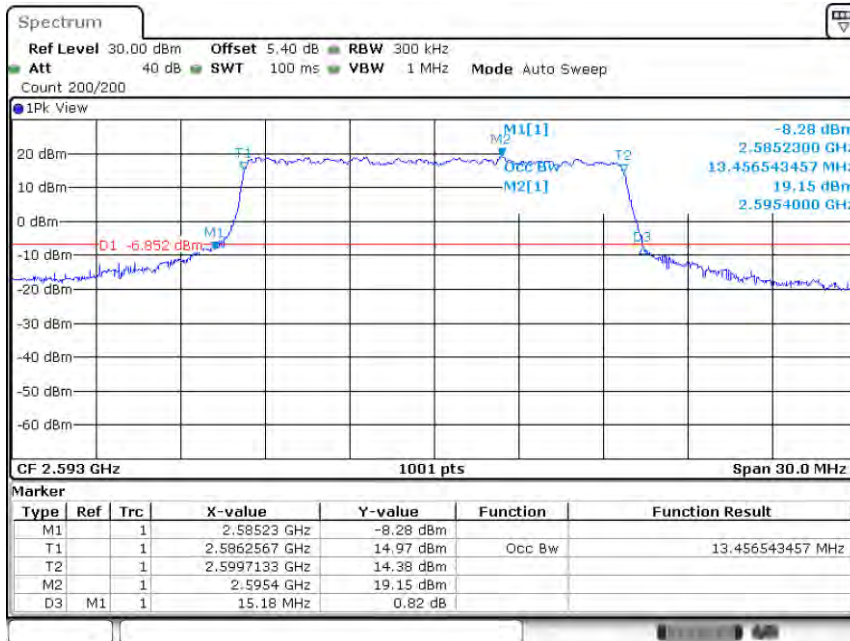
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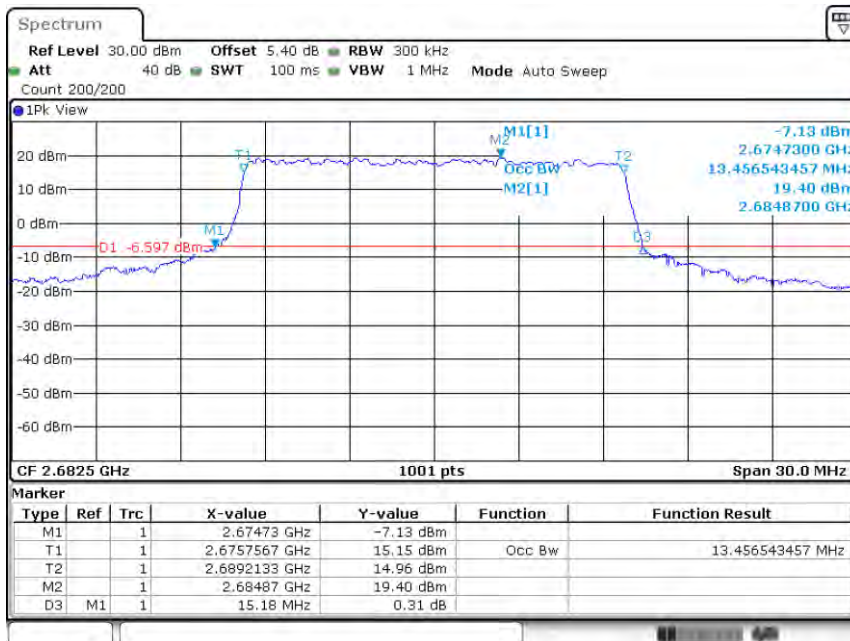
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Band41-15MHz-16QAM-40620-75RB#0-13.457



Date: 3.SEP.2020 11:54:38

Band41-15MHz-16QAM-41515-75RB#0-13.457



Date: 3.SEP.2020 11:59:45

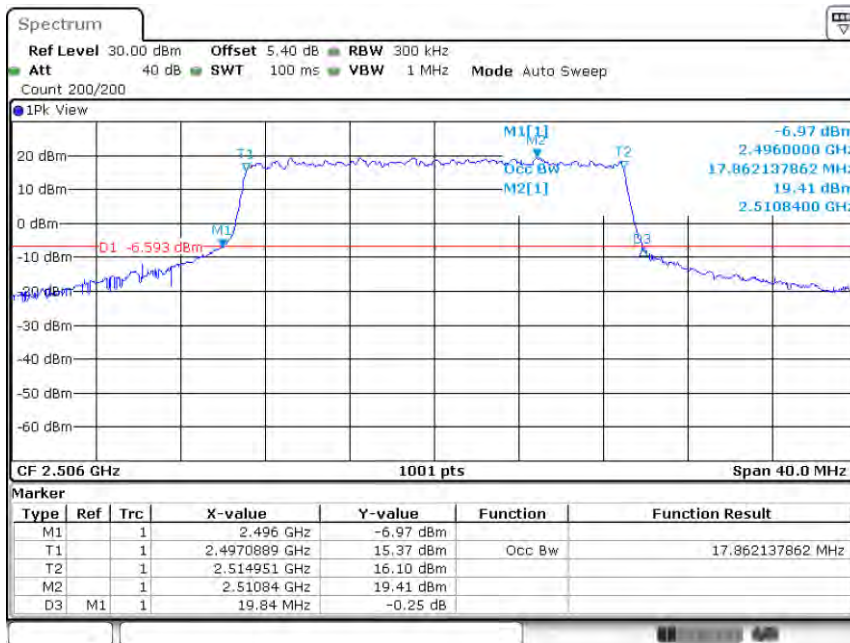


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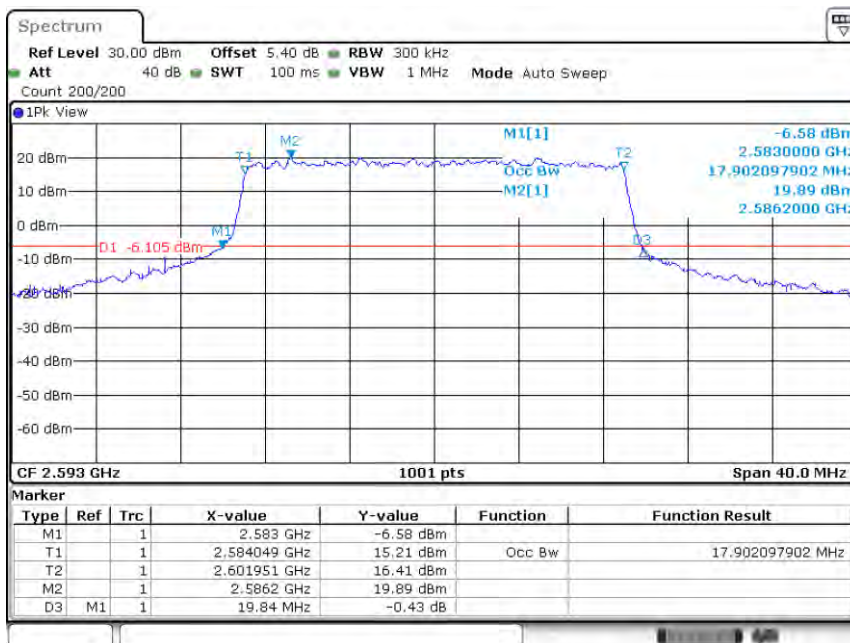


Band41-20MHz-QPSK-39750-100RB#0-17.862



Date: 1.SEP.2020 10:07:35

Band41-20MHz-QPSK-40620-100RB#0-17.902



Date: 1.SEP.2020 10:09:53

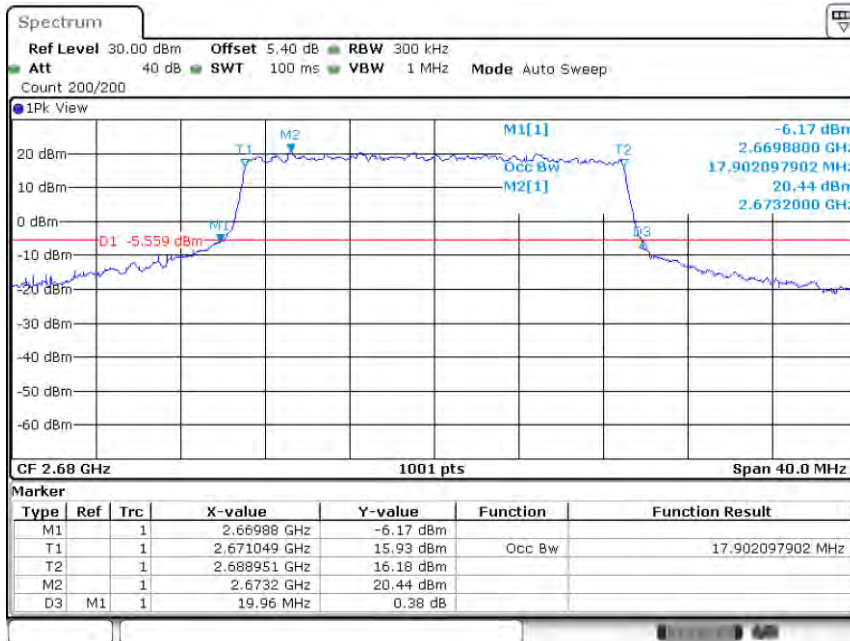


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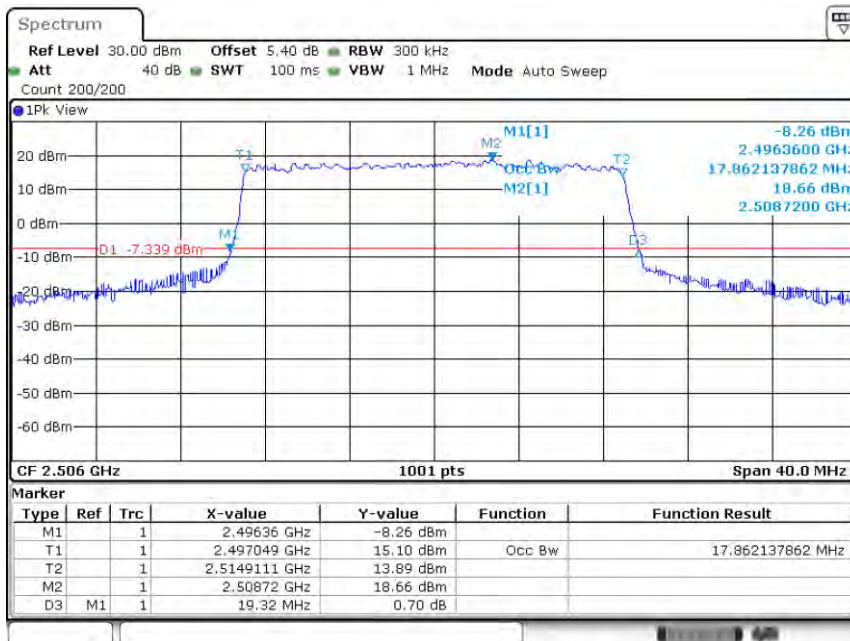


Band41-20MHz-QPSK-41490-100RB#0-17.902



Date: 1.SEP.2020 10:12:06

Band41-20MHz-16QAM-39750-100RB#0-17.862

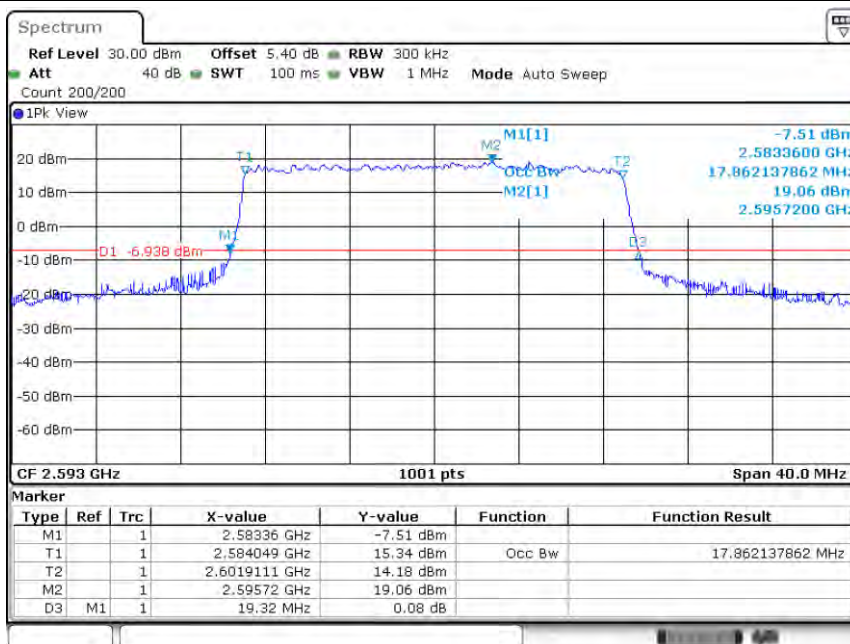


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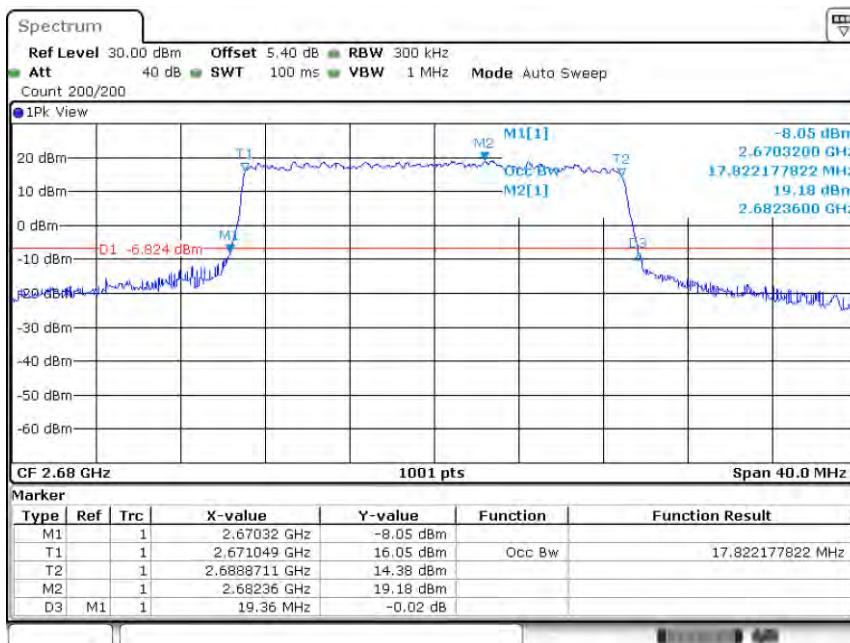


Band41-20MHz-16QAM-40620-100RB#0-17.862



Date: 1.SEP.2020 10:10:26

Band41-20MHz-16QAM-41490-100RB#0-17.822



Date: 1.SEP.2020 10:12:38





5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-44.75,-46.75,-11.76	PASS
Band41	5MHz	QPSK	39675	25RB#0	-39.38,-40.14,-20.14	PASS
Band41	5MHz	QPSK	41565	1RB#24	-45.07,-47.16,-13.42	PASS
Band41	5MHz	QPSK	41565	25RB#0	-38.20,-38.10,-20.32	PASS
Band41	5MHz	16QAM	39675	1RB#0	-46.54,-47.59,-12.37	PASS
Band41	5MHz	16QAM	39675	25RB#0	-40.11,-39.04,-21.51	PASS
Band41	5MHz	16QAM	41565	1RB#24	-47.32,-49.11,-13.64	PASS
Band41	5MHz	16QAM	41565	25RB#0	-38.33,-36.67,-20.02	PASS
Band41	10MHz	QPSK	39700	1RB#0	-43.58,-33.35,-20.32	PASS
Band41	10MHz	QPSK	39700	50RB#0	-39.13,-30.93,-22.23	PASS
Band41	10MHz	QPSK	41540	1RB#49	-41.73,-36.71,-17.87	PASS
Band41	10MHz	QPSK	41540	50RB#0	-36.93,-29.83,-21.37	PASS
Band41	10MHz	16QAM	39700	1RB#0	-44.26,-37.33,-19.86	PASS
Band41	10MHz	16QAM	39700	50RB#0	-37.65,-33.37,-24.25	PASS
Band41	10MHz	16QAM	41540	1RB#49	-42.88,-38.40,-19.44	PASS
Band41	10MHz	16QAM	41540	50RB#0	-35.93,-31.38,-23.89	PASS
Band41	15MHz	QPSK	39725	1RB#0	-43.39,-38.75,-19.25	PASS
Band41	15MHz	QPSK	39725	75RB#0	-38.34,-25.99,-22.54	PASS
Band41	15MHz	QPSK	41515	1RB#74	-45.86,-40.12,-18.66	PASS
Band41	15MHz	QPSK	41515	75RB#0	-38.00,-29.09,-25.36	PASS
Band41	15MHz	16QAM	39725	1RB#0	-44.01,-38.87,-20.03	PASS
Band41	15MHz	16QAM	39725	75RB#0	-37.00,-27.33,-24.71	PASS
Band41	15MHz	16QAM	41515	1RB#74	-45.30,-39.25,-18.20	PASS
Band41	15MHz	16QAM	41515	75RB#0	-36.28,-28.28,-24.53	PASS
Band41	20MHz	QPSK	39750	1RB#0	-45.67,-25.49,-16.85	PASS
Band41	20MHz	QPSK	39750	100RB#0	-40.75,-27.15,-23.38	PASS
Band41	20MHz	QPSK	41490	1RB#99	-45.00,-27.51,-15.67	PASS
Band41	20MHz	QPSK	41490	100RB#0	-36.55,-27.05,-22.65	PASS
Band41	20MHz	16QAM	39750	1RB#0	-45.97,-29.43,-16.85	PASS
Band41	20MHz	16QAM	39750	100RB#0	-39.40,-29.54,-26.04	PASS
Band41	20MHz	16QAM	41490	1RB#99	-45.17,-30.74,-18.03	PASS
Band41	20MHz	16QAM	41490	100RB#0	-36.21,-29.58,-25.62	PASS



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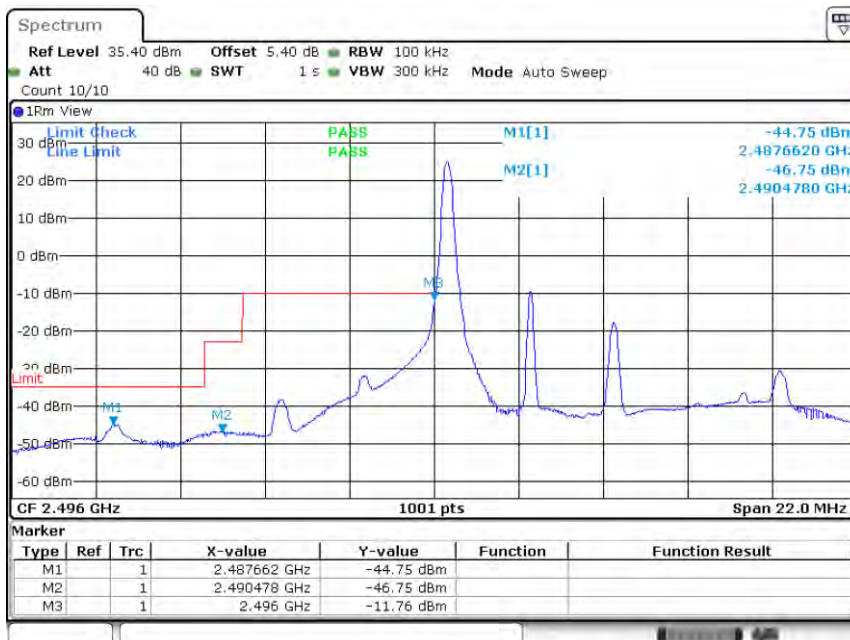
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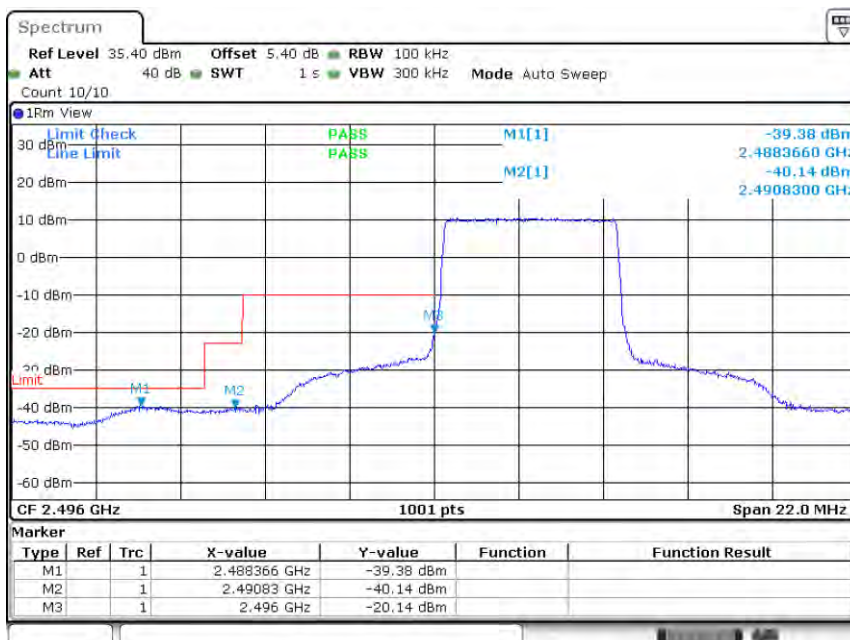
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Band41-5MHz-QPSK-39675-1RB#0



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Band41-5MHz-QPSK-39675-25RB#0



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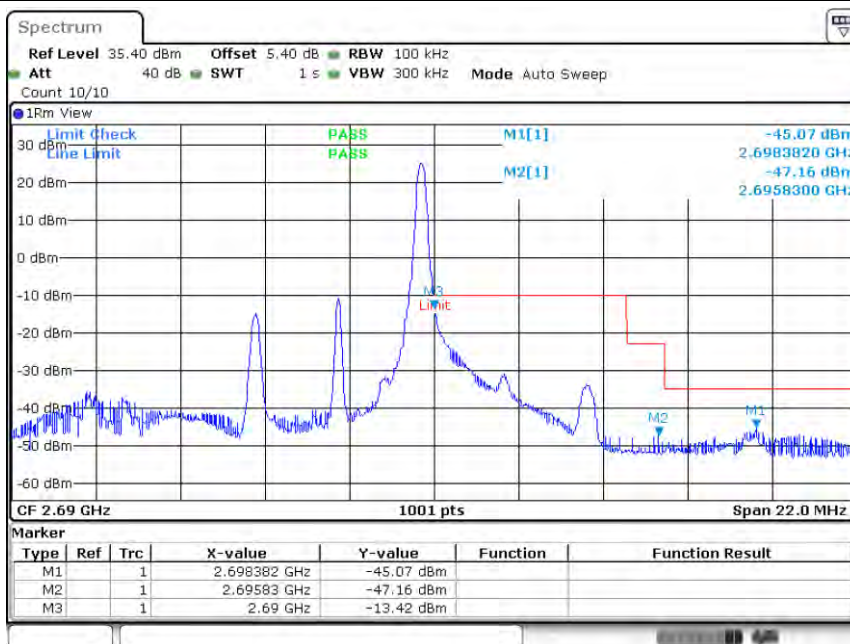


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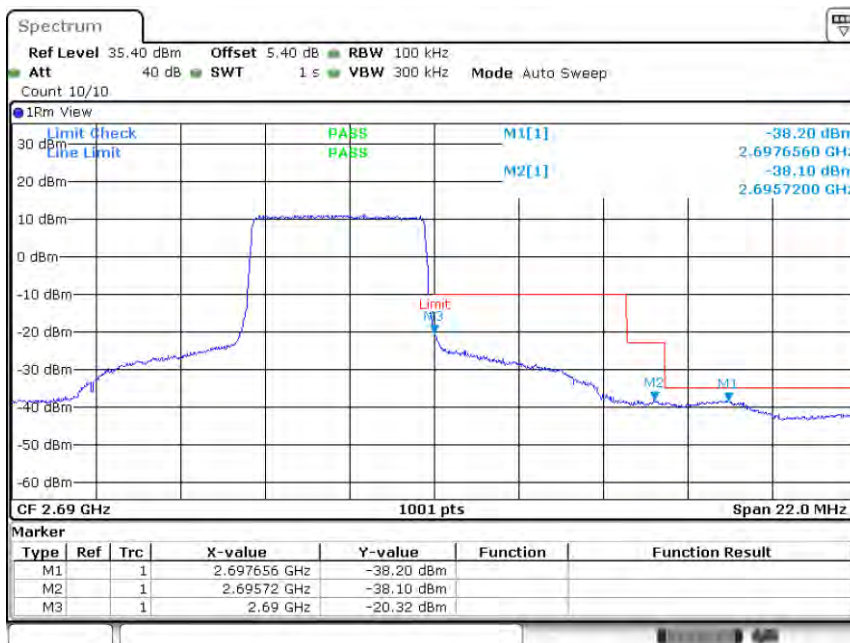


Band41-5MHz-QPSK-41565-1RB#24



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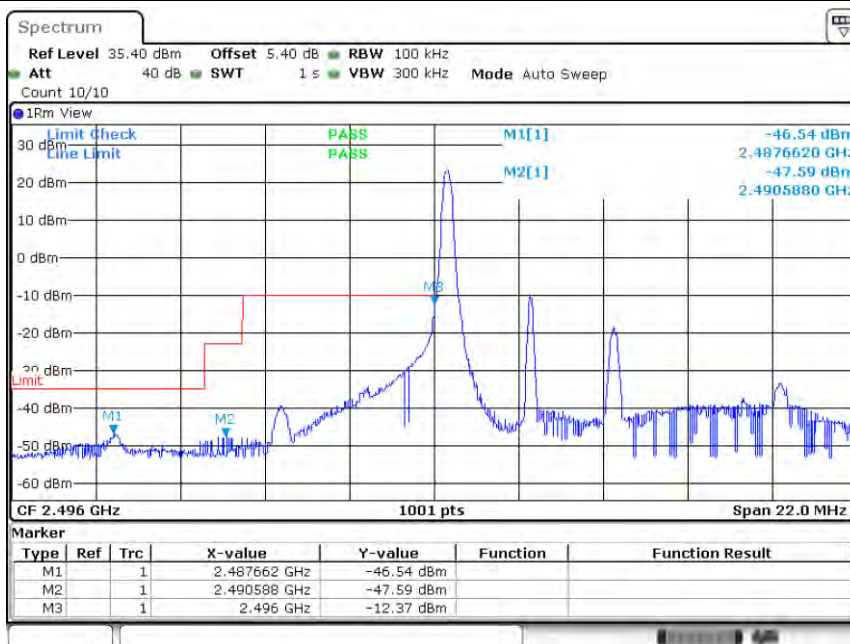
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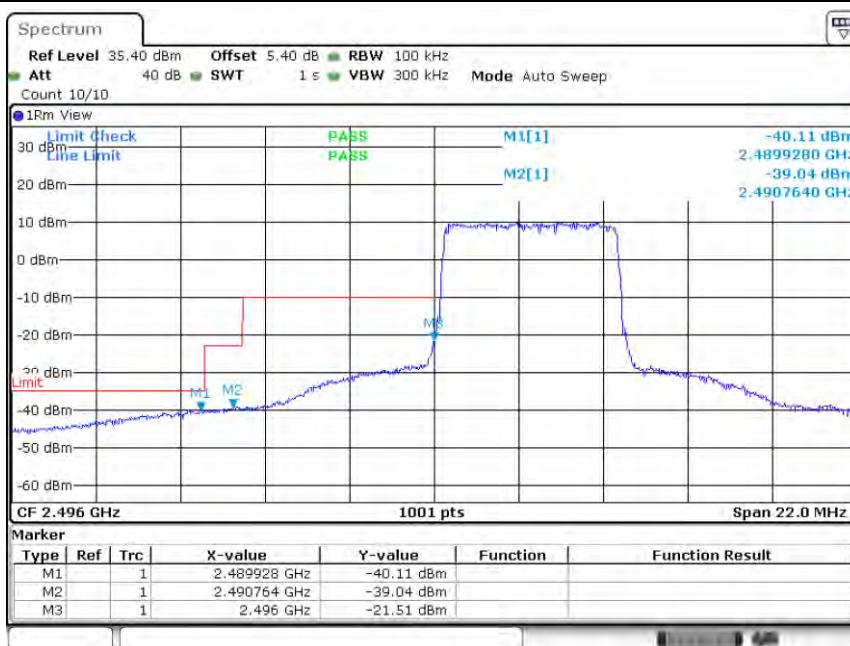
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Band41-5MHz-16QAM-39675-1RB#0



Date: 1.SEP.2020 10:17:50

Band41-5MHz-16QAM-39675-25RB#0



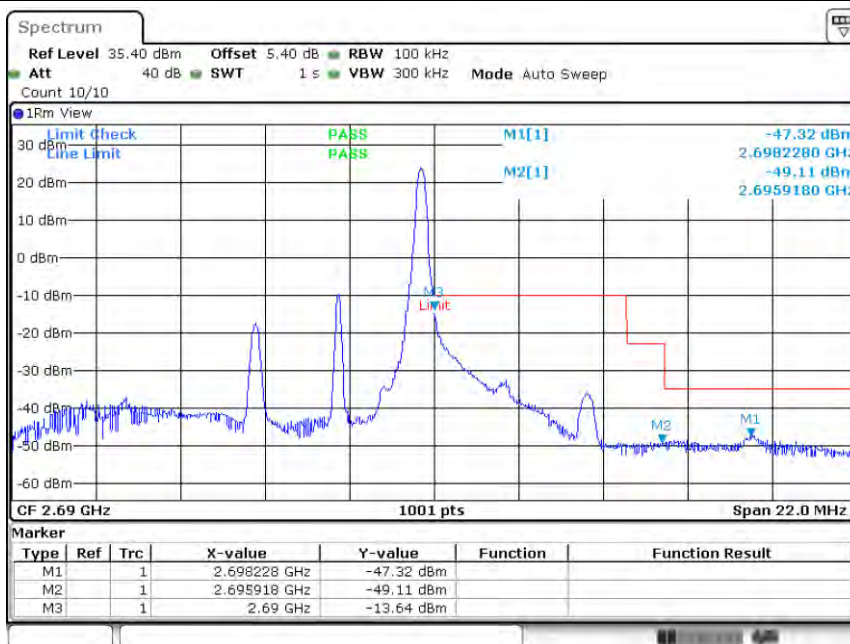
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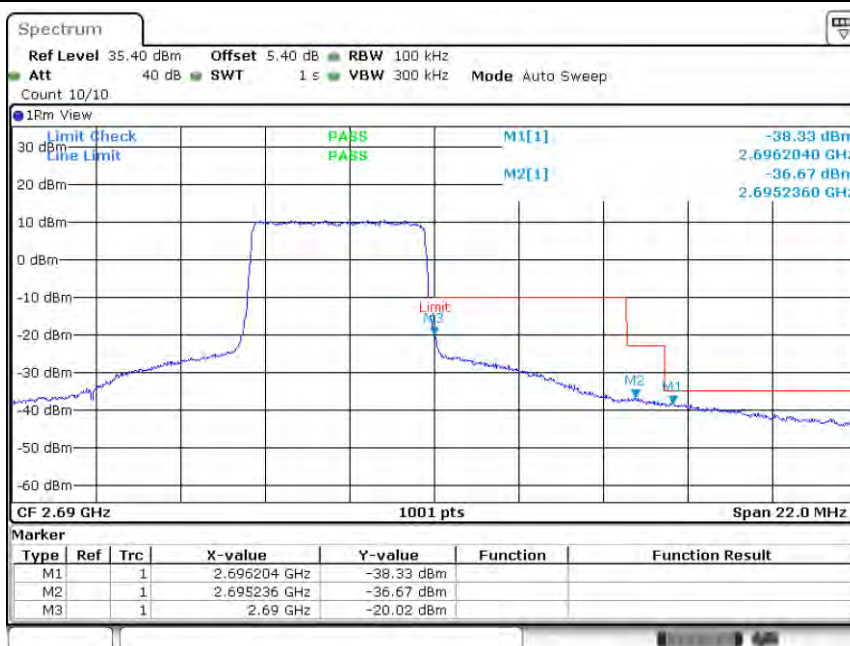
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Band41-5MHz-16QAM-41565-1RB#24



Date: 1.SEP.2020 10:18:38

Band41-5MHz-16QAM-41565-25RB#0



Date: 1.SEP.2020 10:20:10

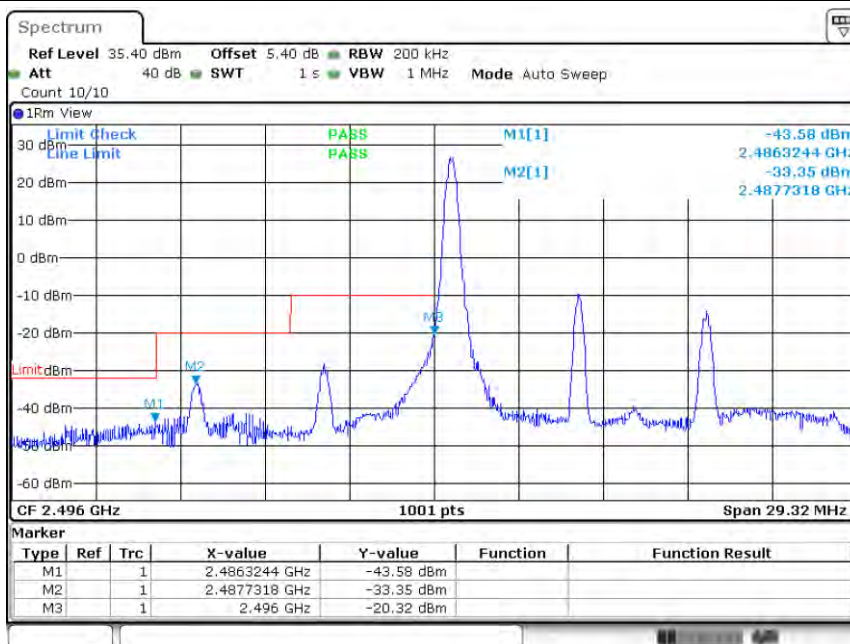


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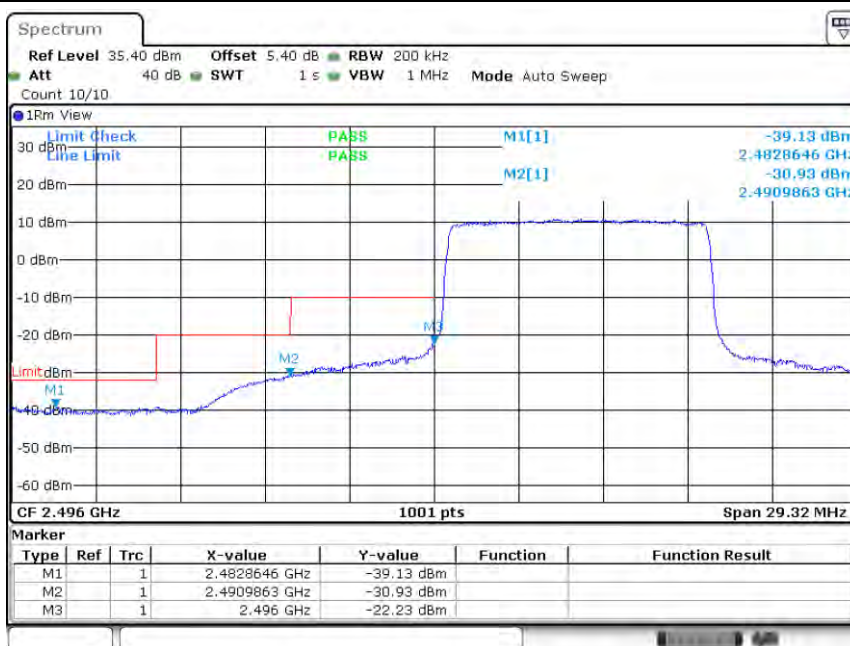
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Band41-10MHz-QPSK-39700-1RB#0



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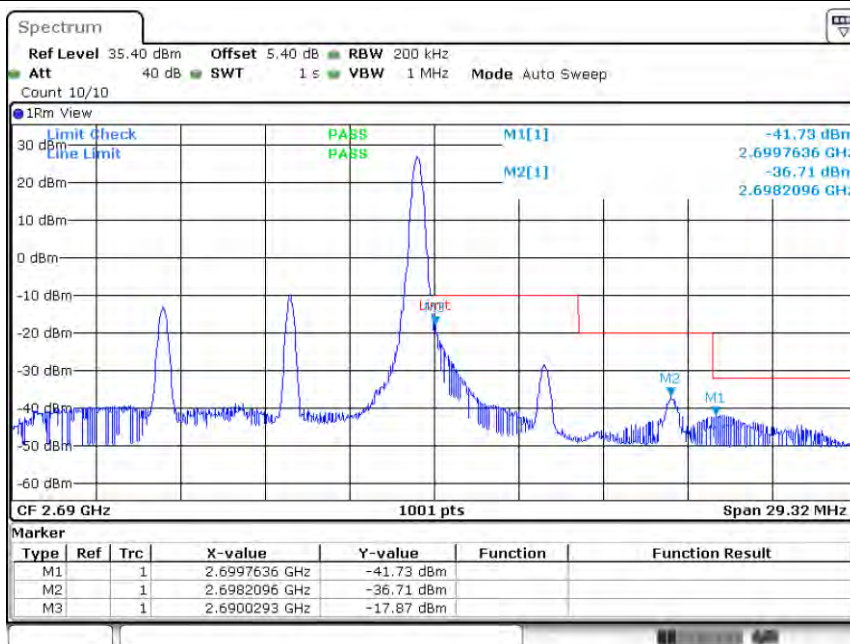
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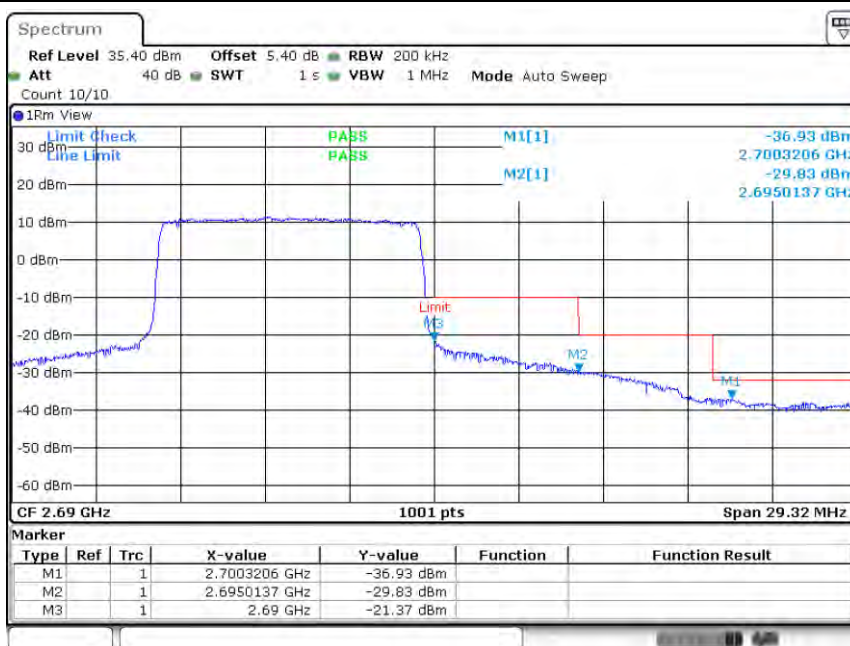


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Date: 1.SEP.2020 10:21:24

Band41-10MHz-QPSK-41540-50RB#0



Date: 1.SEP.2020 10:23:06



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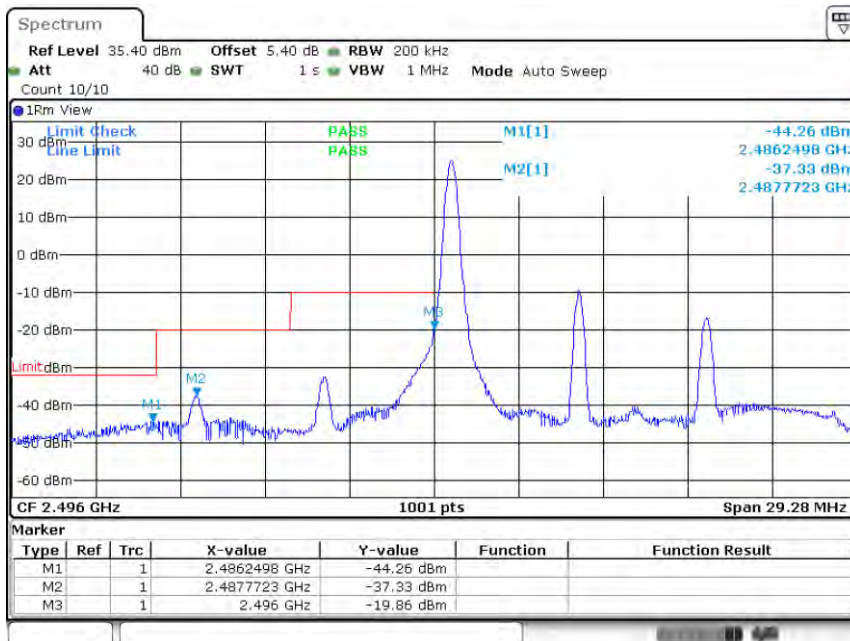
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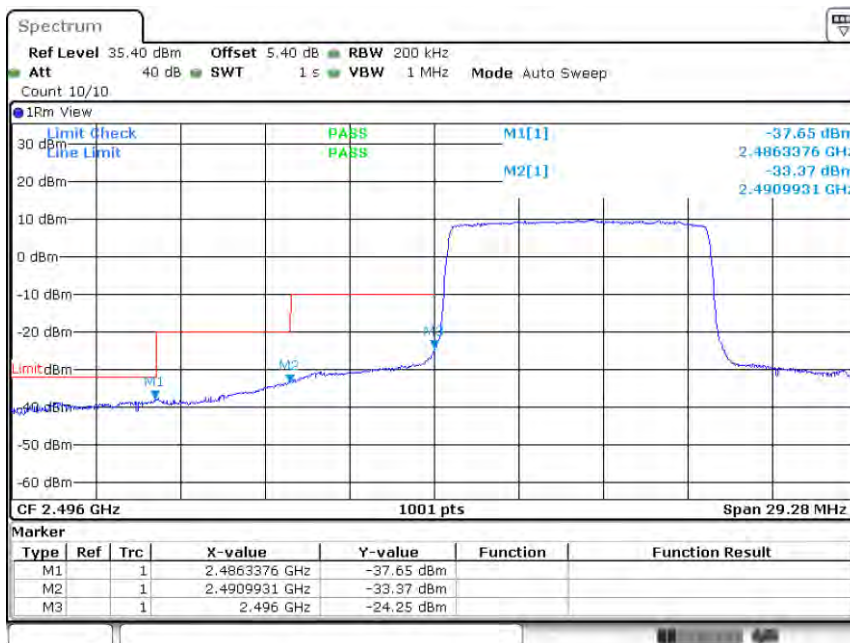


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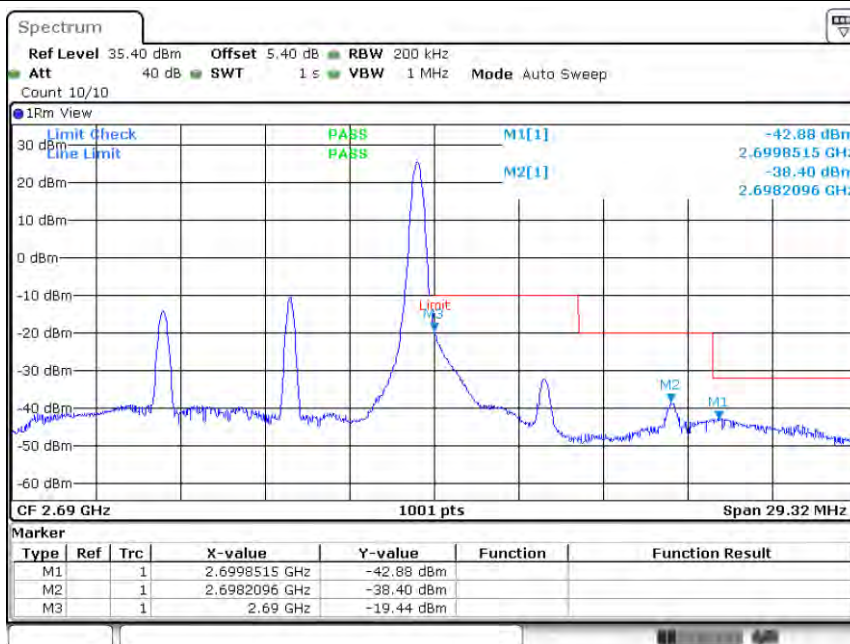


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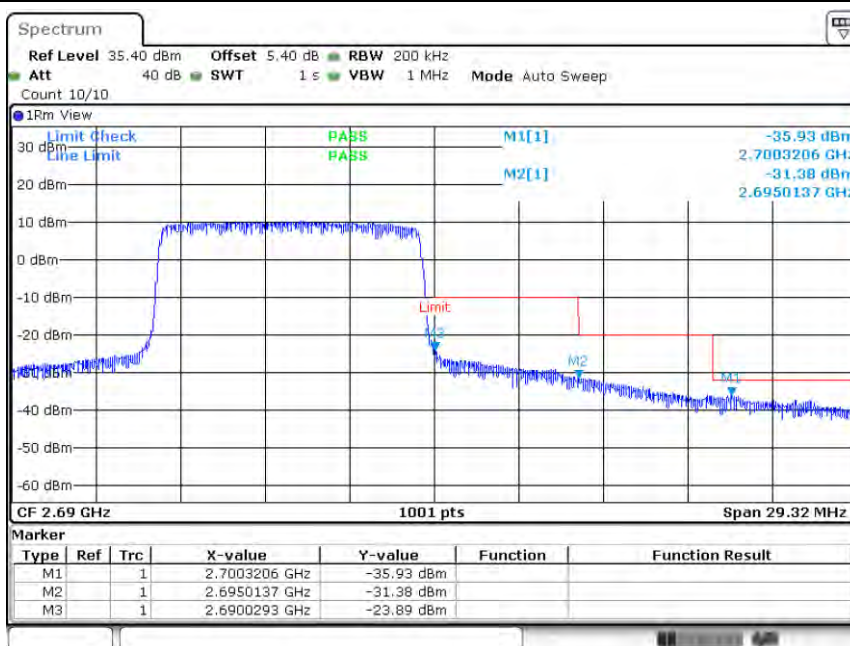


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Date: 1.SEP.2020 10:21:54

Band41-10MHz-16QAM-41540-50RB#0

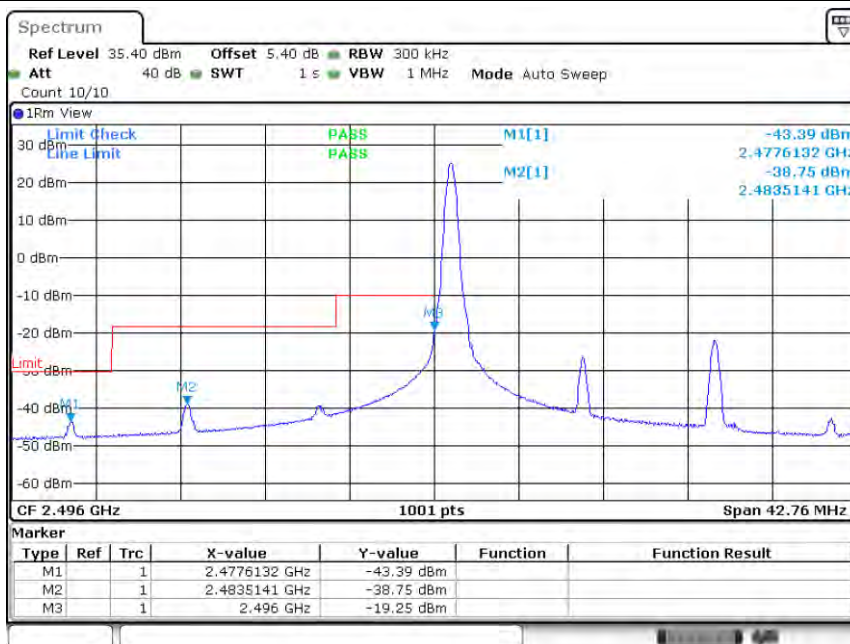


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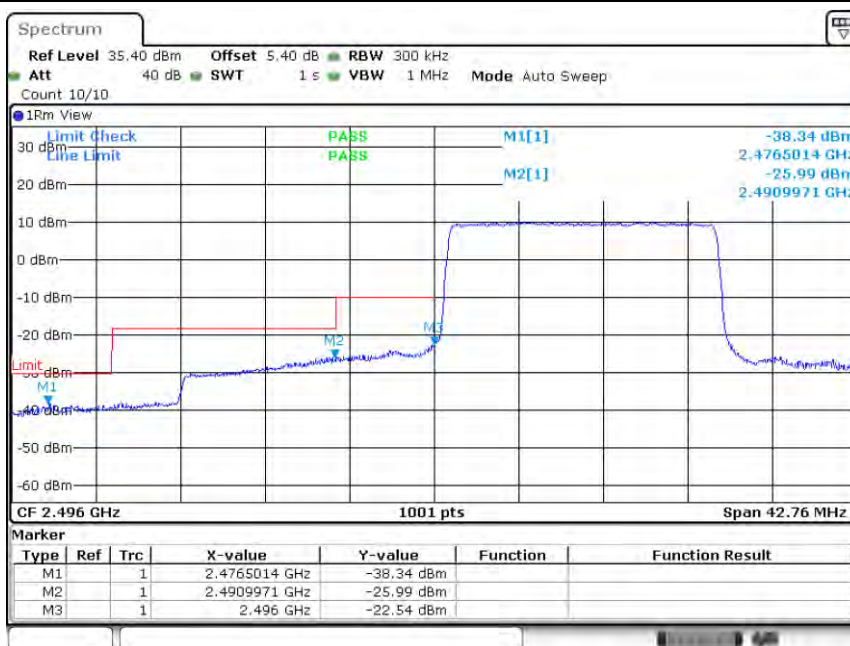


Band41-15MHz-QPSK-39725-1RB#0



Date: 3.SEP.2020 12:00:11

Band41-15MHz-QPSK-39725-75RB#0



Date: 3.SEP.2020 12:01:46

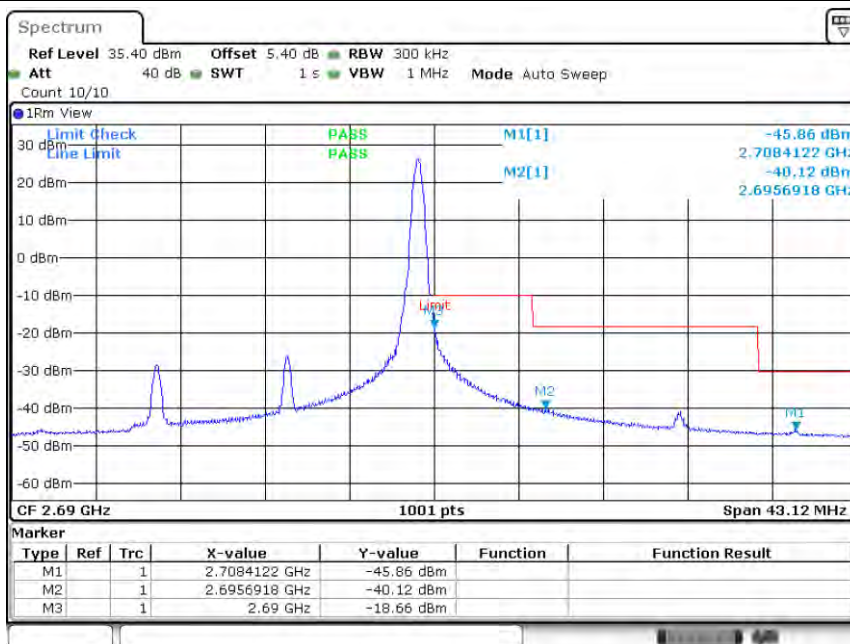


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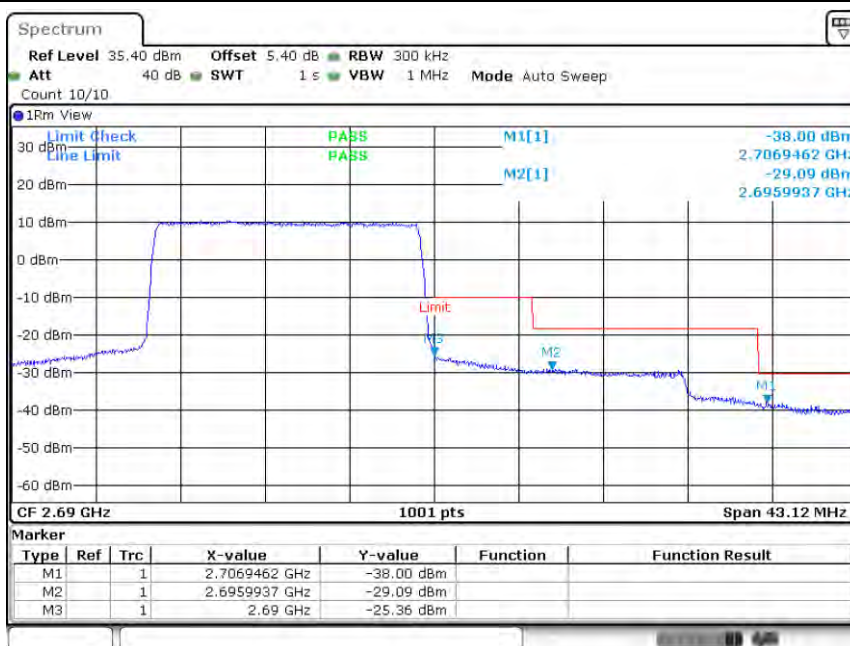


Band41-15MHz-QPSK-41515-1RB#74



Date: 3.SEP.2020 12:00:58

Band41-15MHz-QPSK-41515-75RB#0

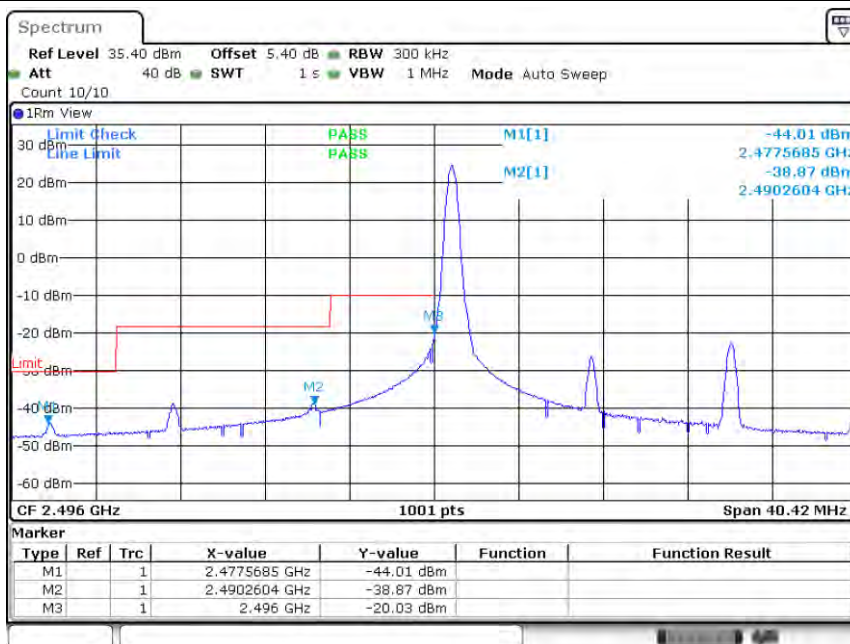


Date: 3.SEP.2020 12:02:30



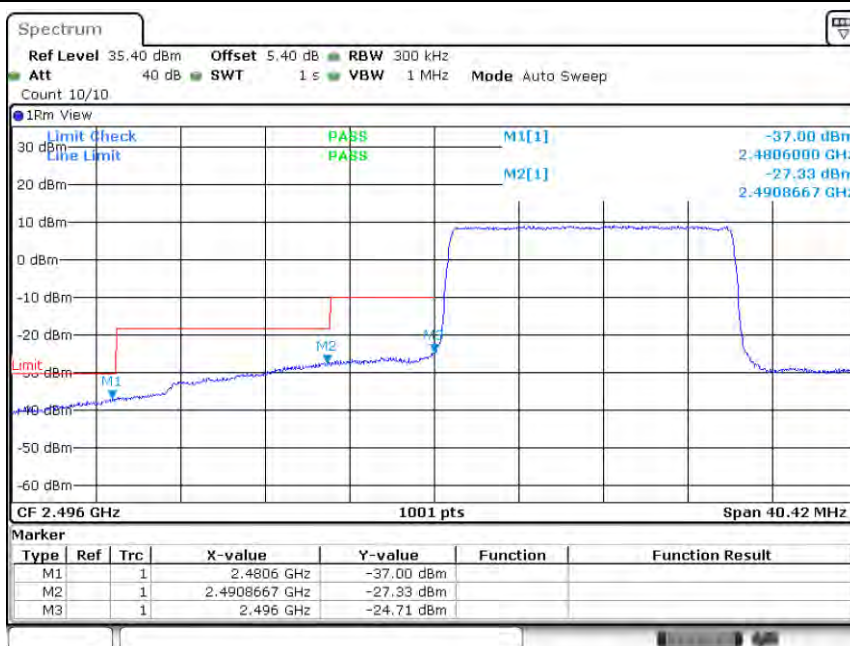


Band41-15MHz-16QAM-39725-1RB#0



Date: 3.SEP.2020 12:00:32

Band41-15MHz-16QAM-39725-75RB#0

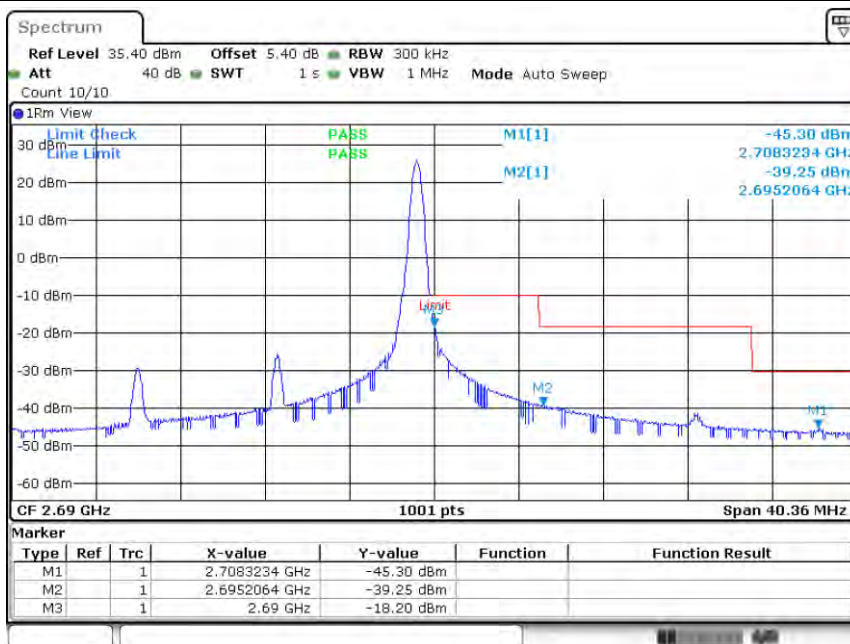


Date: 3.SEP.2020 12:02:08



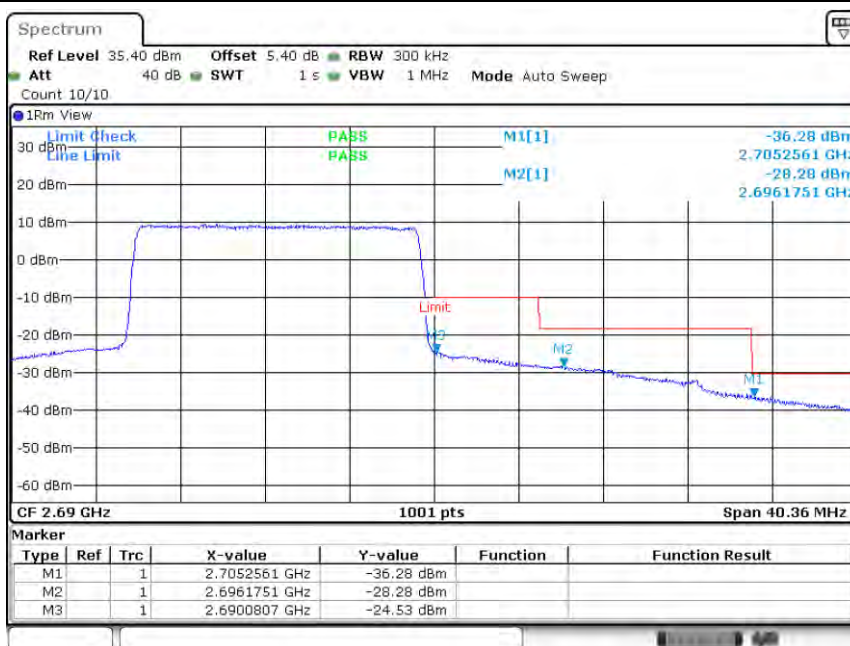


Band41-15MHz-16QAM-41515-1RB#74



Date: 3.SEP.2020 12:01:20

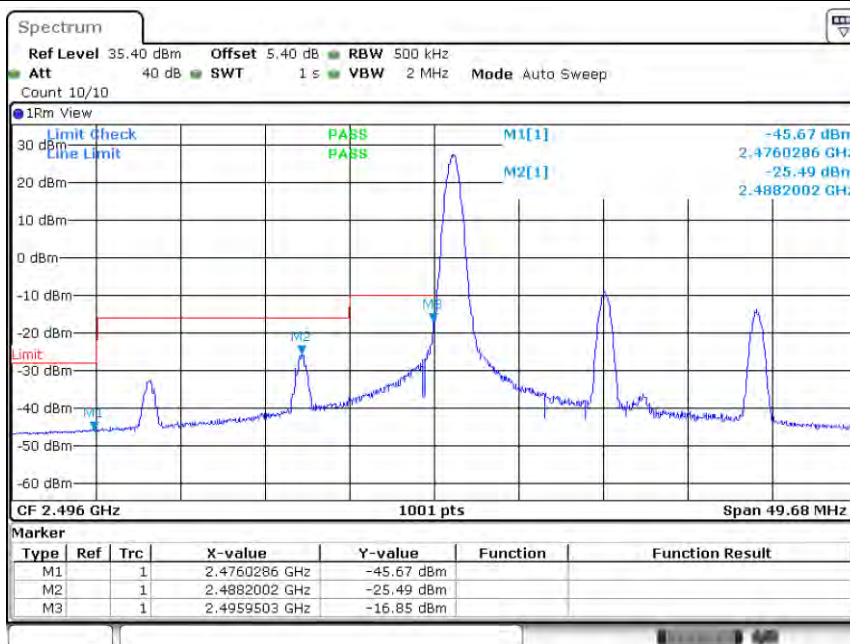
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Date: 3.SEP.2020 12:02:51

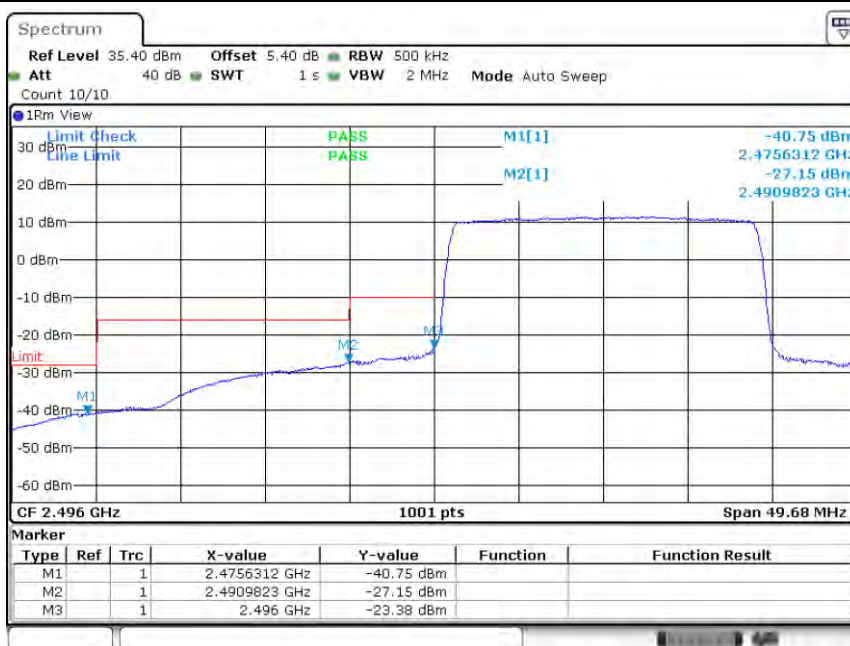


Band41-20MHz-QPSK-39750-1RB#0



Date: 1.SEP.2020 10:25:49

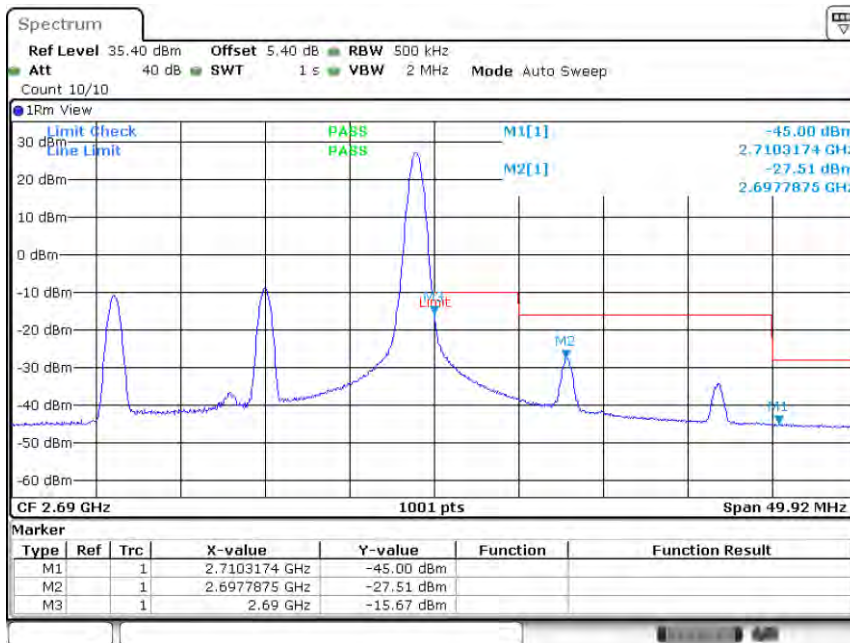
Band41-20MHz-QPSK-39750-100RB#0



Date: 1.SEP.2020 10:27:24

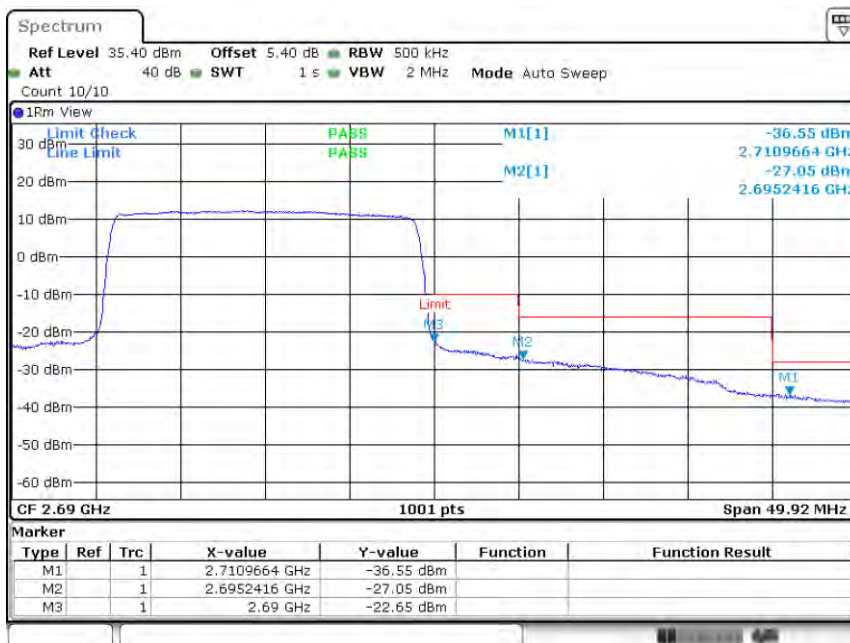


Band41-20MHz-QPSK-41490-1RB#99



Date: 1.SEP.2020 10:26:37

Band41-20MHz-QPSK-41490-100RB#0



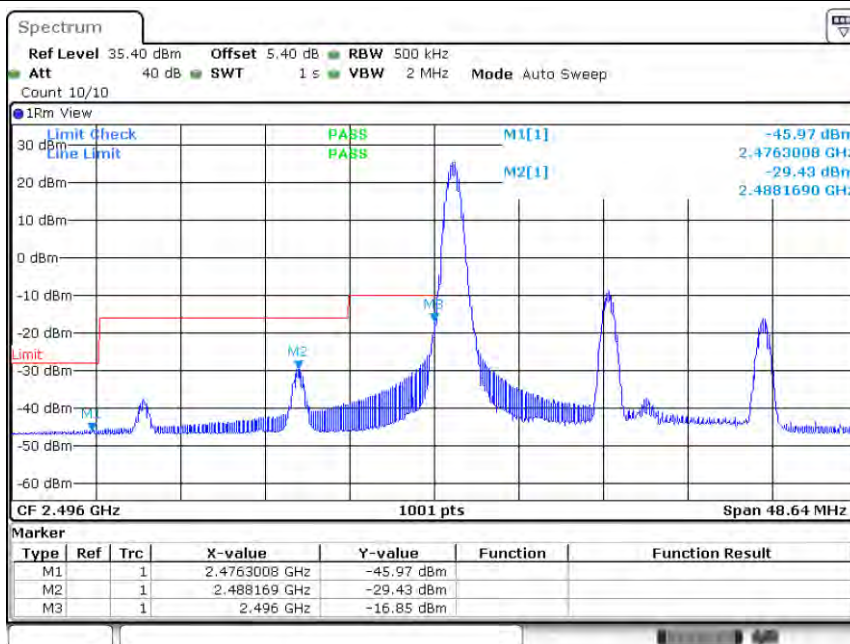
Date: 1.SEP.2020 10:28:08



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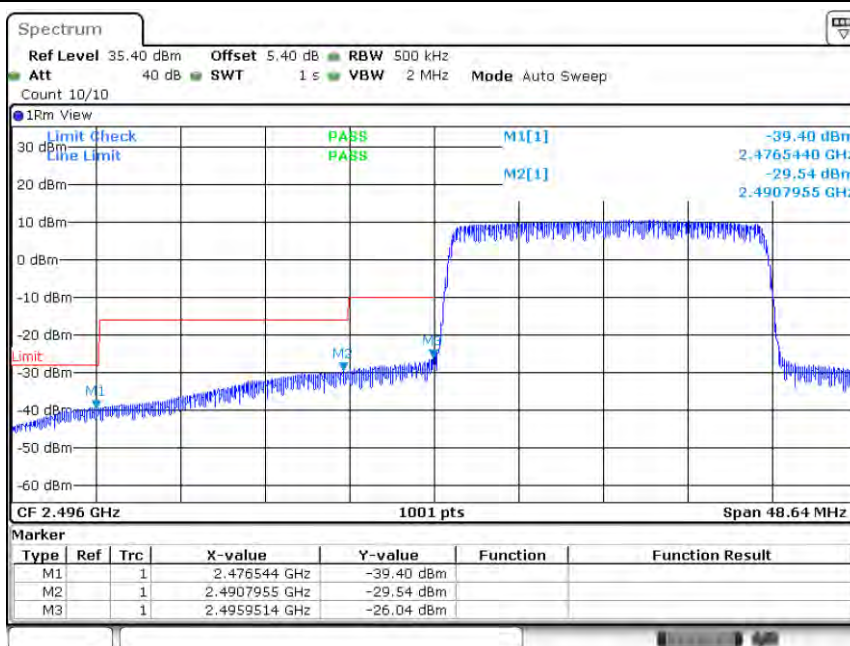
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Band41-20MHz-16QAM-39750-1RB#0



Date: 1.SEP.2020 10:26:11

Band41-20MHz-16QAM-39750-100RB#0

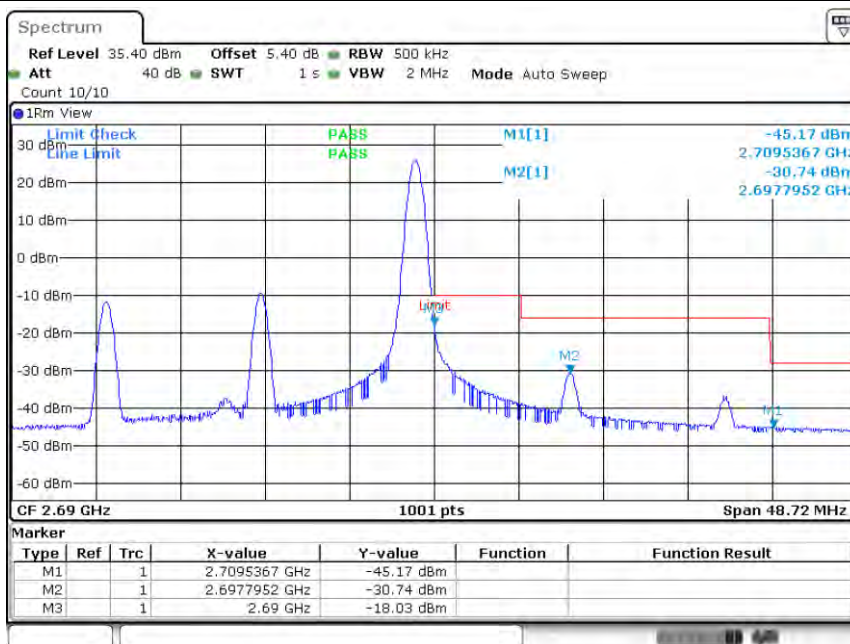


Date: 1.SEP.2020 10:27:46



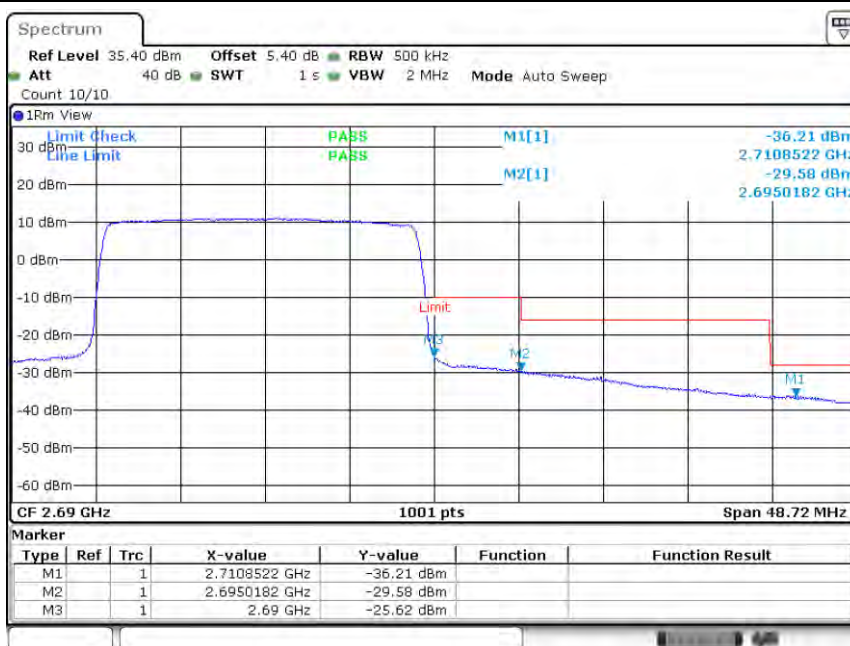
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Band41-20MHz-16QAM-41490-1RB#99



Date: 1.SEP.2020 10:26:58

Band41-20MHz-16QAM-41490-100RB#0



Date: 1.SEP.2020 10:28:30



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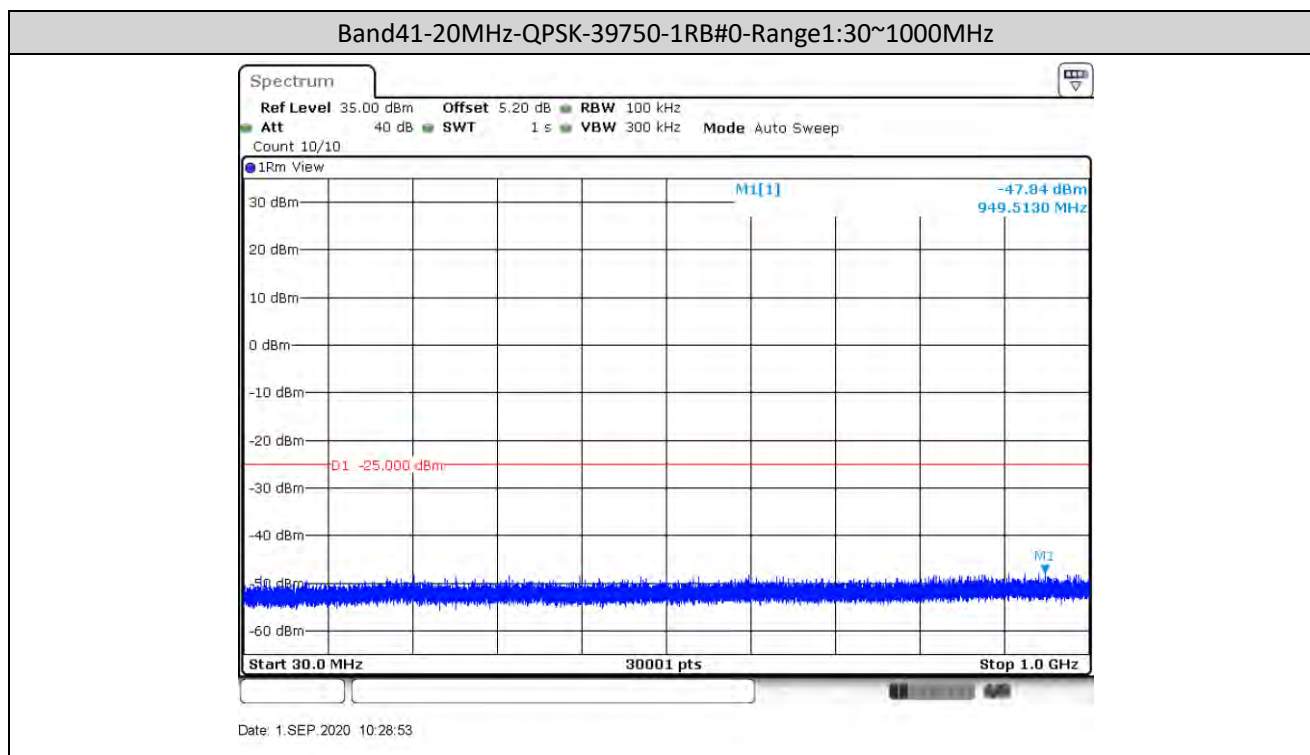


6. Spurious Emission at Antenna Terminal

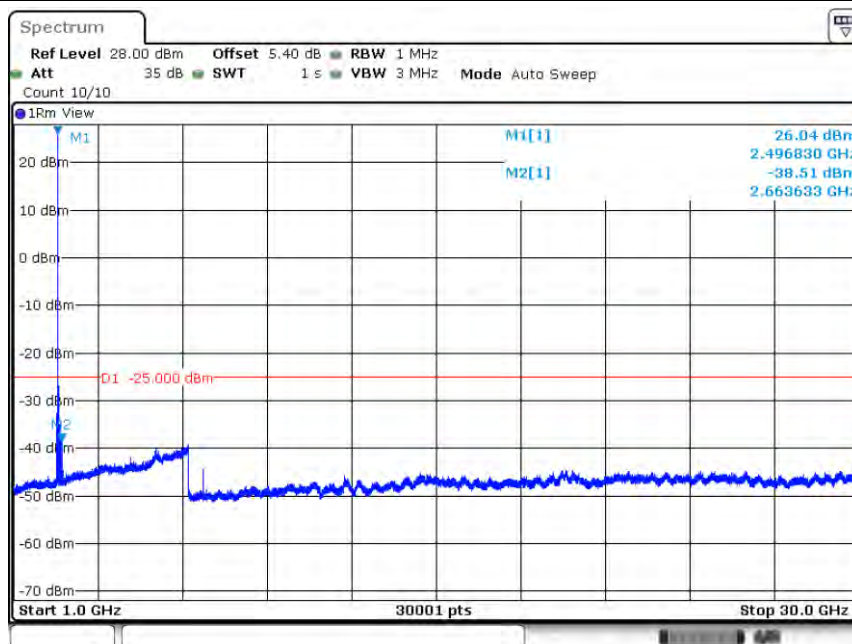
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

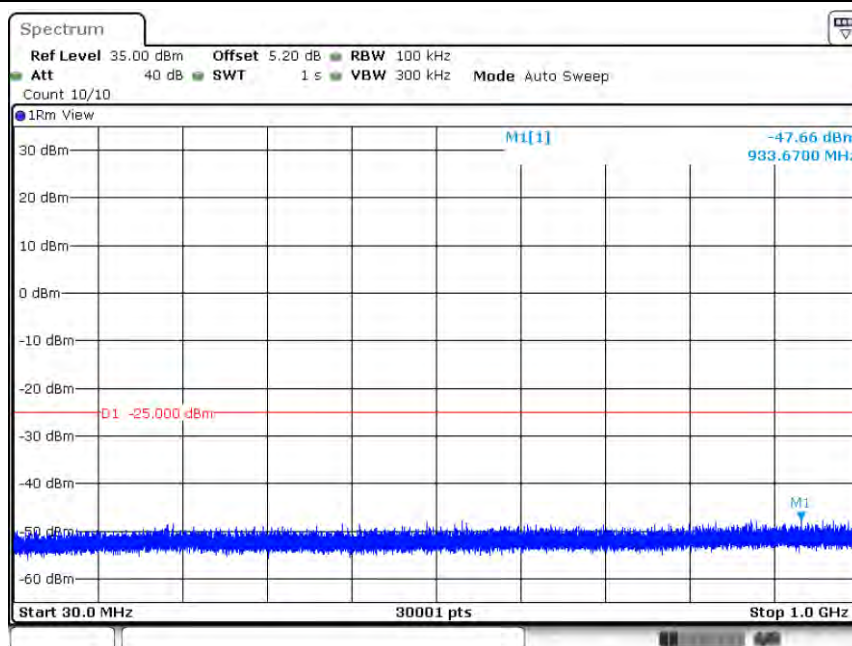


Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:29:09

Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz



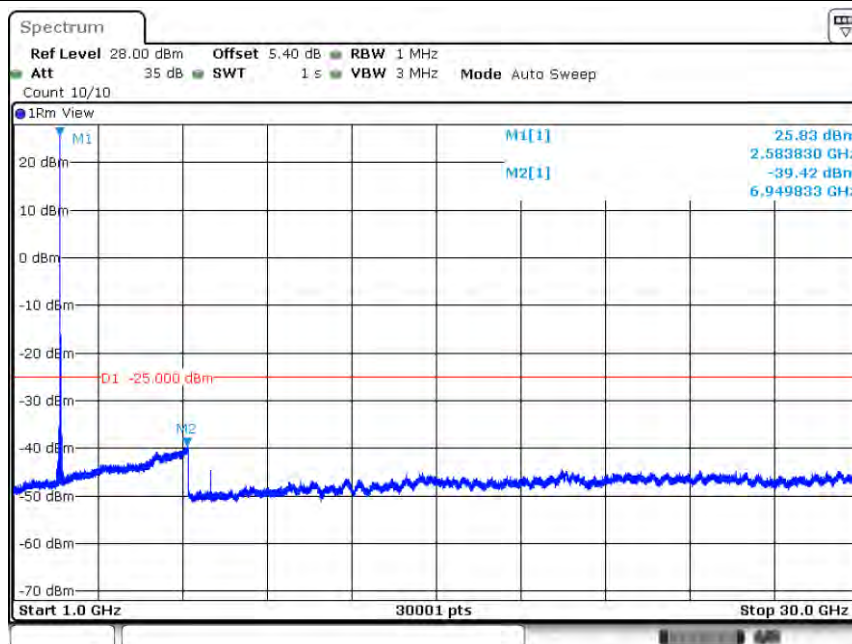
Date: 1.SEP.2020 10:30:03



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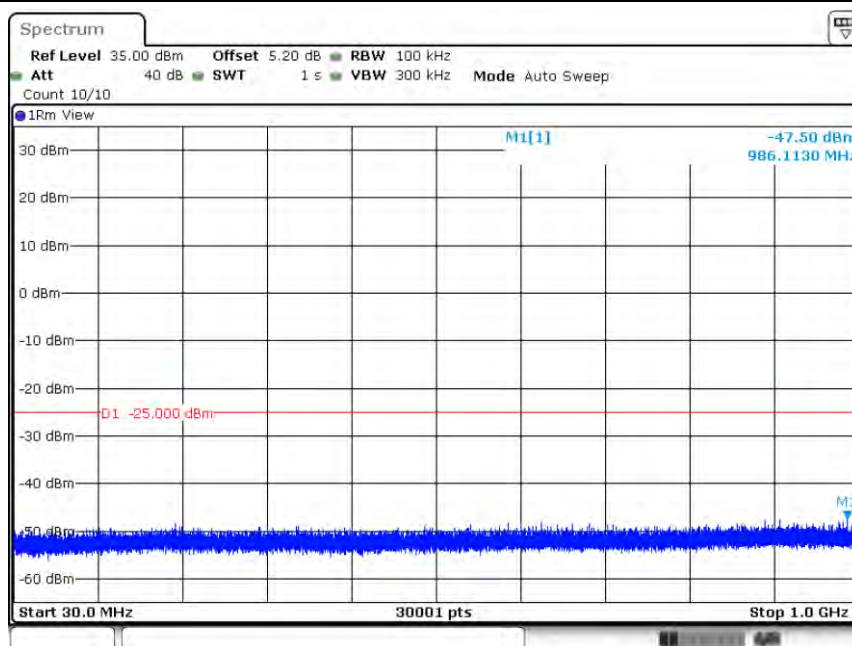
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Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:30:19

Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz



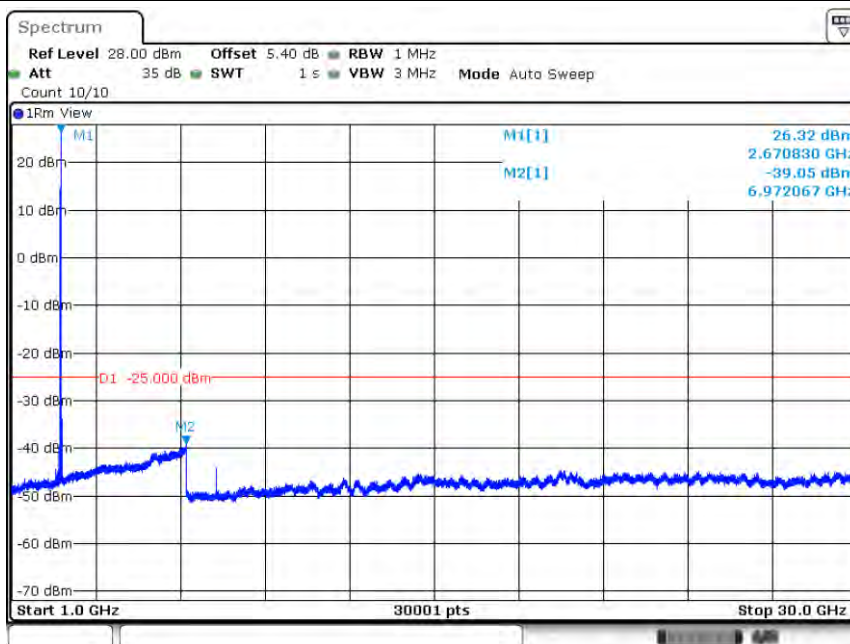
Date: 1.SEP.2020 10:31:13



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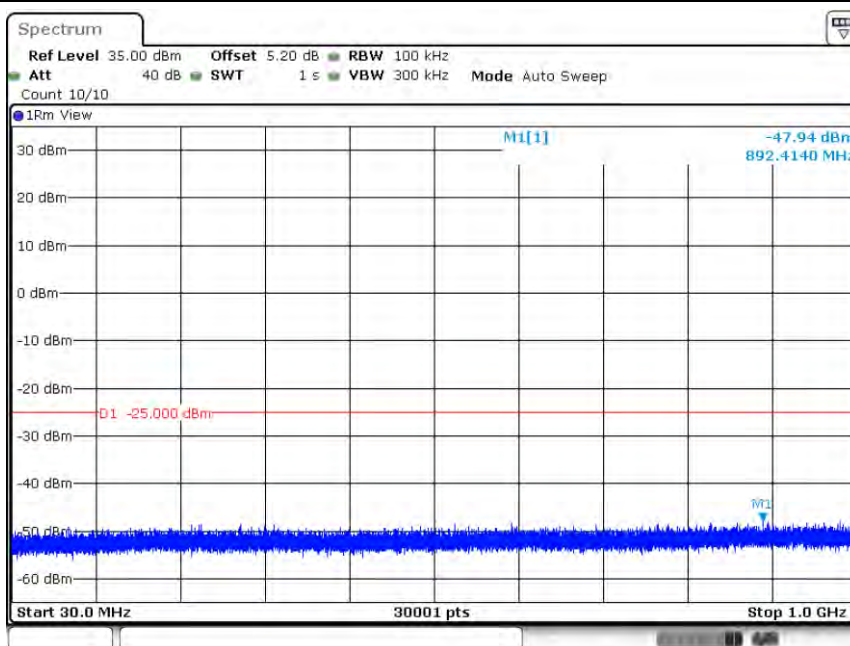
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Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:31:29

Band41-20MHz-16QAM-39750-1RB#0-Range1:30~1000MHz



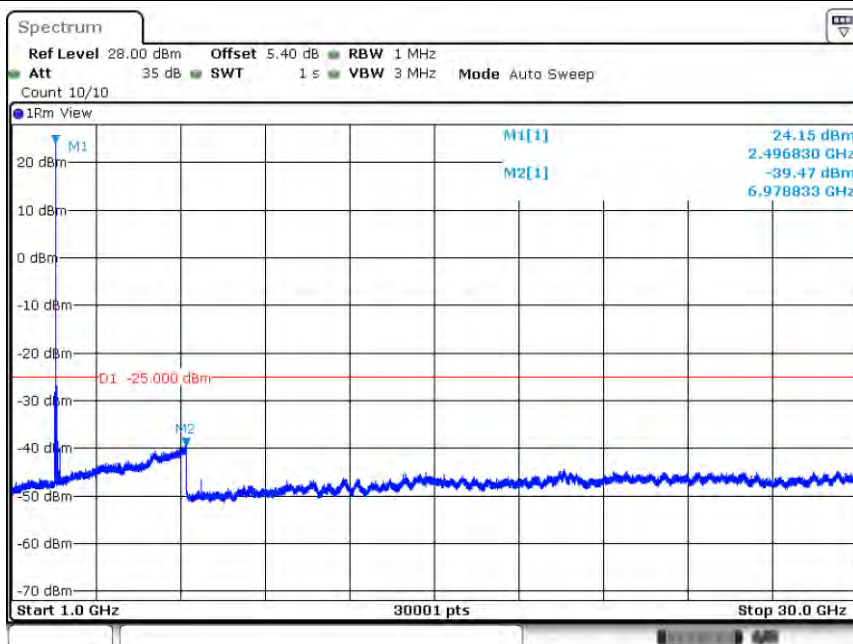
Date: 1.SEP.2020 10:29:28



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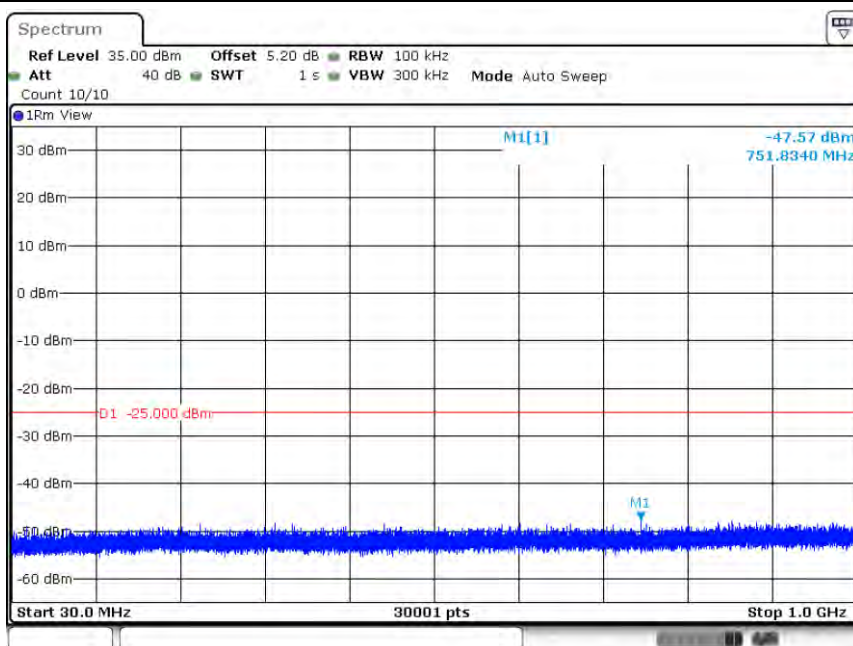
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Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:29:44

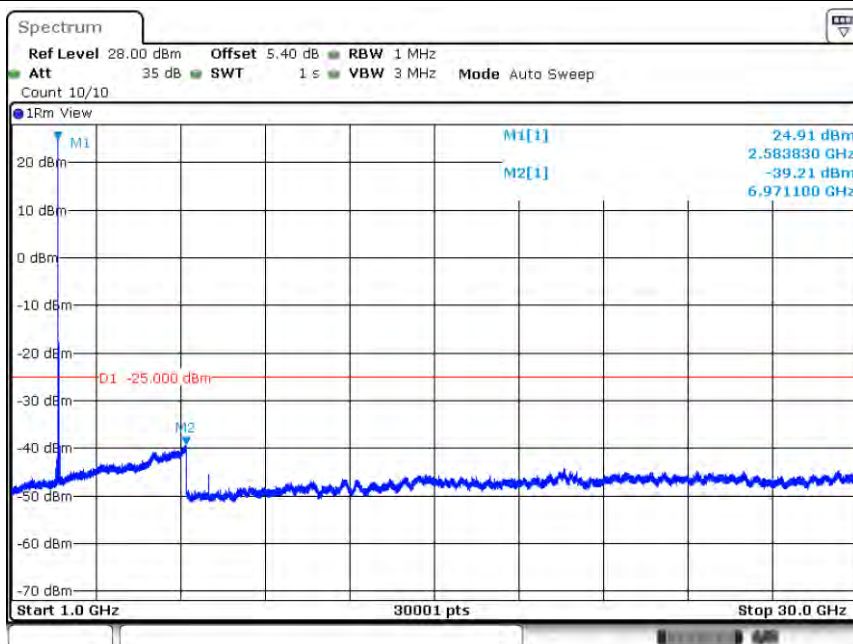
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Date: 1.SEP.2020 10:30:38

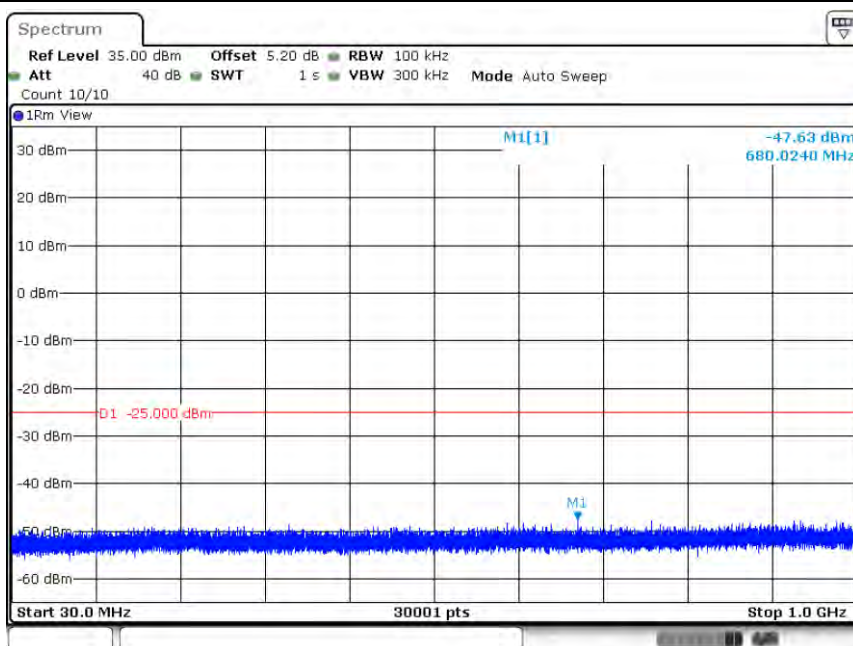


Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:30:54

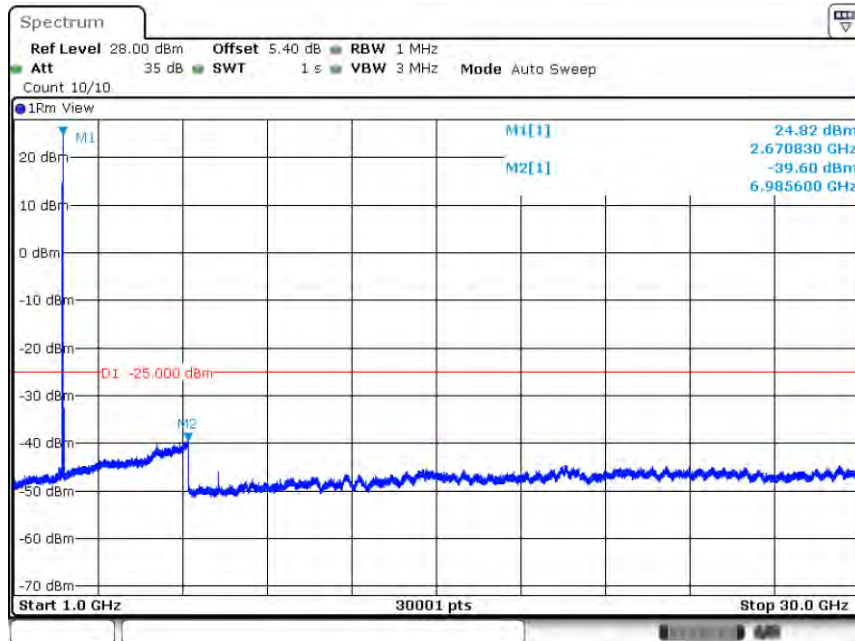
Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



Date: 1.SEP.2020 10:31:48



Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~30000MHz



Date: 1.SEP.2020 10:32:04



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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
116.8193	-65.42	-25.00	40.42	Vertical
559.4525	-65.46	-25.00	40.46	Vertical
4994.0665	-39.67	-25.00	14.67	Vertical
7491.6497	-43.70	-25.00	18.70	Vertical
9988.2329	-47.64	-25.00	22.64	Vertical
17995.9999	-39.71	-25.00	14.71	Vertical
41.1556	-64.44	-25.00	39.44	Horizontal
227.1139	-68.97	-25.00	43.97	Horizontal
2699.9400	-36.15	-25.00	11.15	Horizontal
4994.0665	-40.97	-25.00	15.97	Horizontal
7491.1497	-44.29	-25.00	19.29	Horizontal
16389.9463	-43.65	-25.00	18.65	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.0290	-65.35	-25.00	40.35	Vertical
426.0708	-68.08	-25.00	43.08	Vertical
2998.7998	-37.90	-25.00	12.90	Vertical
5168.0723	-38.53	-25.00	13.53	Vertical
7752.1584	-44.42	-25.00	19.42	Vertical
17997.9999	-40.18	-25.00	15.18	Vertical
42.5136	-63.32	-25.00	38.32	Horizontal
239.9670	-68.17	-25.00	43.17	Horizontal
3000.0000	-38.44	-25.00	13.44	Horizontal
5168.0723	-39.62	-25.00	14.62	Horizontal
7752.1584	-47.06	-25.00	22.06	Horizontal
16405.4468	-43.49	-25.00	18.49	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.6224	-64.84	-25.00	39.84	Vertical
598.9334	-63.87	-25.00	38.87	Vertical
5342.0781	-37.99	-25.00	12.99	Vertical
8013.1671	-45.88	-25.00	20.88	Vertical
10683.7561	-48.58	-25.00	23.58	Vertical
17998.5000	-39.40	-25.00	14.40	Vertical
45.5208	-64.75	-25.00	39.75	Horizontal
231.1396	-68.07	-25.00	43.07	Horizontal
2997.1994	-38.52	-25.00	13.52	Horizontal
5342.0781	-37.19	-25.00	12.19	Horizontal
8013.1671	-47.13	-25.00	22.13	Horizontal
16390.9464	-42.92	-25.00	17.92	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
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-2.20	-0.000878	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	5.00	0.001995	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	4.00	0.001596	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.70	-0.000270	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	3.60	0.001388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	1.10	0.000410	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-0.50	-0.000187	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	5.10	0.001903	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	1.10	0.000439	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	4.50	0.001796	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	3.00	0.001197	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	3.80	0.001465	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	2.50	0.000964	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	3.90	0.001504	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	4.90	0.001828	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	4.70	0.001754	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	1.10	0.000410	±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
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	5.80	0.002314	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	2.80	0.001117	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	5.50	0.002195	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-0.80	-0.000319	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	3.40	0.001357	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	5.20	0.002075	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	2.90	0.001157	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-0.90	-0.000359	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.80	-0.000694	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	3.20	0.001234	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	3.20	0.001234	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.20	-0.000848	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	4.70	0.001813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	4.40	0.001697	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	5.50	0.002121	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	2.10	0.000810	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	1.50	0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	6.60	0.002463	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	1.50	0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	5.20	0.001940	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	6.40	0.002388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	5.70	0.002127	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	6.60	0.002463	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	3.10	0.001157	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	5.90	0.002201	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-2.80	-0.001117	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	2.30	0.000918	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	6.80	0.002713	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	5.40	0.002155	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	-2.50	-0.000998	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-0.70	-0.000279	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	3.90	0.001556	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	4.60	0.001836	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	-1.00	-0.000399	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-2.10	-0.000810	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	3.90	0.001504	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-1.90	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	0.80	0.000309	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-1.20	-0.000463	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	4.30	0.001658	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	7.30	0.002724	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	0.10	0.000037	±2.5	PASS



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Band41	20MHz	16QAM	41490	100RB#0	NV	-10	0.30	0.000112	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	0.70	0.000261	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	2.00	0.000746	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	2.60	0.000970	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	0.30	0.000112	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	1.00	0.000373	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	2.60	0.000970	±2.5	PASS



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