



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#0	24.91	26.62	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.99	26.70	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.84	26.55	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	23.97	25.68	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	23.98	25.69	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	23.91	25.62	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.92	25.63	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.19	26.90	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	25.40	27.11	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.27	26.98	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	24.65	26.36	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	24.64	26.35	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	24.37	26.08	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.50	26.21	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.42	27.13	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.58	27.29	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.39	27.10	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	24.66	26.37	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	24.70	26.41	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	24.58	26.29	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.63	26.34	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.65	25.36	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.81	25.52	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.67	25.38	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	22.92	24.63	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	23.02	24.73	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	22.78	24.49	33.00	PASS



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Band41	5MHz	16QAM	39675	25RB#0	22.92	24.63	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	24.26	25.97	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.08	25.79	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.09	25.80	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	23.56	25.27	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#6	23.69	25.40	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	23.47	25.18	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.42	25.13	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.50	26.21	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.45	26.16	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.94	25.65	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	23.63	25.34	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	23.66	25.37	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	23.46	25.17	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	23.66	25.37	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.92	26.63	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.01	26.72	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.83	26.54	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	24.03	25.74	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	24.01	25.72	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	23.98	25.69	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.95	25.66	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.16	26.87	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	25.40	27.11	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.26	26.97	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	24.66	26.37	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	24.69	26.40	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	24.31	26.02	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.49	26.20	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	25.43	27.14	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.55	27.26	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.39	27.10	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	24.67	26.38	33.00	PASS



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Band41	10MHz	QPSK	41540	25RB#0	24.67	26.38	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	24.53	26.24	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	24.67	26.38	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.64	25.35	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.85	25.56	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.66	25.37	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	22.97	24.68	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.06	24.77	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	22.82	24.53	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.88	24.59	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	24.26	25.97	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.03	25.74	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.08	25.79	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	23.54	25.25	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	23.67	25.38	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	23.45	25.16	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.47	25.18	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.45	26.16	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.41	26.12	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.88	25.59	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	23.62	25.33	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	23.63	25.34	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	23.44	25.15	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.68	25.39	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.90	26.61	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.05	26.76	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.79	26.50	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	24.01	25.72	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	23.99	25.70	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	23.95	25.66	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.95	25.66	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.23	26.94	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.42	27.13	33.00	PASS



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Band41	15MHz	QPSK	40620	1RB#74	25.28	26.99	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	24.68	26.39	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	24.65	26.36	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	24.34	26.05	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.45	26.16	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.40	27.11	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	25.60	27.31	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.43	27.14	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	24.69	26.40	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	24.65	26.36	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	24.51	26.22	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.64	26.35	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.68	25.39	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.79	25.50	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.68	25.39	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#0	22.95	24.66	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	23.07	24.78	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	22.82	24.53	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.89	24.60	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.30	26.01	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.01	25.72	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.10	25.81	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	23.53	25.24	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	23.67	25.38	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	23.47	25.18	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.47	25.18	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	24.45	26.16	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.40	26.11	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.93	25.64	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	23.58	25.29	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	23.64	25.35	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	23.41	25.12	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.60	25.31	33.00	PASS



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Band41	20MHz	QPSK	39750	1RB#0	25.22	26.93	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.33	27.04	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.41	27.12	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	24.48	26.19	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	24.45	26.16	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	24.35	26.06	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.29	26.00	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.67	27.38	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.47	27.18	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.33	27.04	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.65	26.36	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	24.58	26.29	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	24.41	26.12	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.58	26.29	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.44	27.15	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	25.66	27.37	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.47	27.18	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	24.62	26.33	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	24.66	26.37	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	24.59	26.30	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	24.65	26.36	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.74	25.45	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.11	25.82	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.06	25.77	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	23.50	25.21	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	23.64	25.35	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	23.57	25.28	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.42	25.13	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.34	26.05	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.15	25.86	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.15	25.86	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	23.63	25.34	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	23.62	25.33	33.00	PASS



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Band41	20MHz	16QAM	40620	50RB#50	23.55	25.26	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.54	25.25	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.53	26.24	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.48	26.19	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.00	25.71	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	23.65	25.36	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	23.62	25.33	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	23.51	25.22	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.65	25.36	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

The conducted Power is measured by Base Station Simulator



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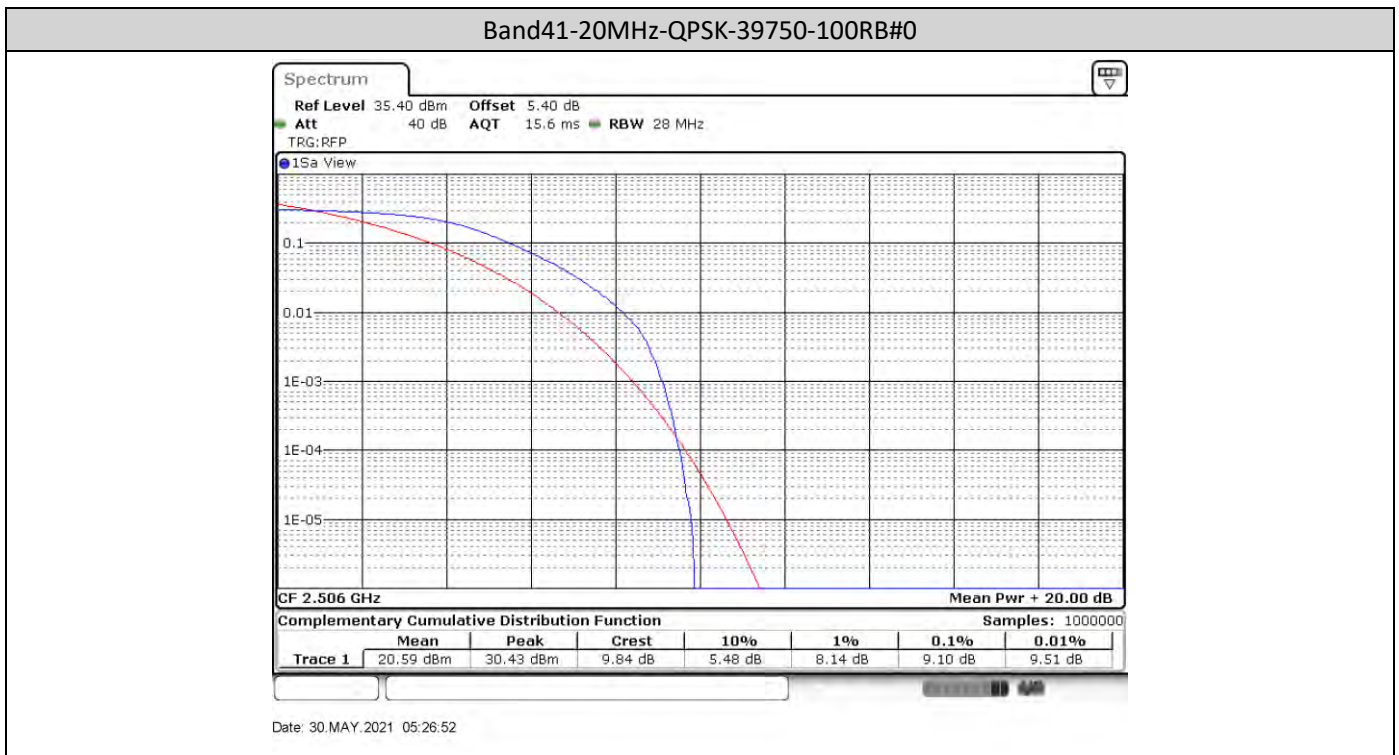


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

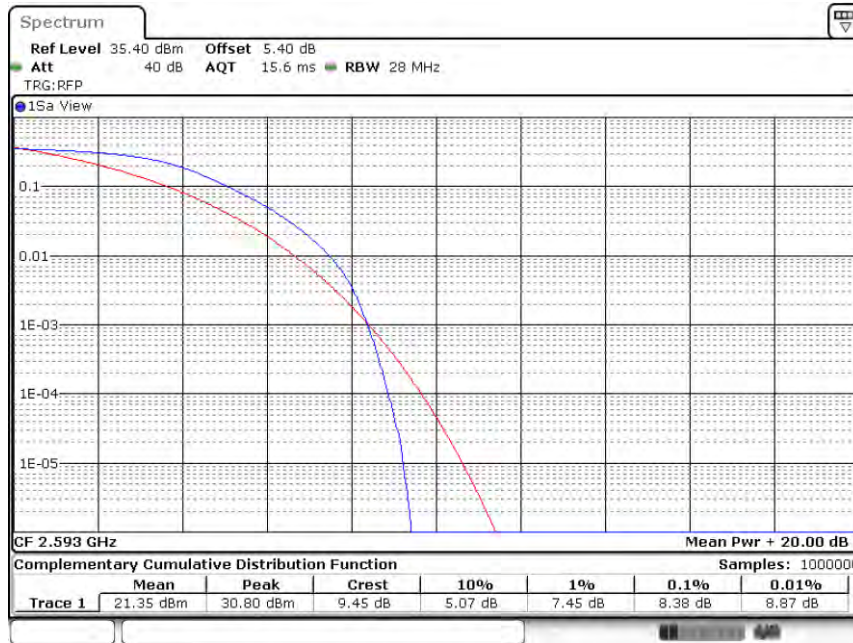
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	9.10	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.38	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.38	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.22	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.22	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.28	13	PASS

2.2. Test Plots



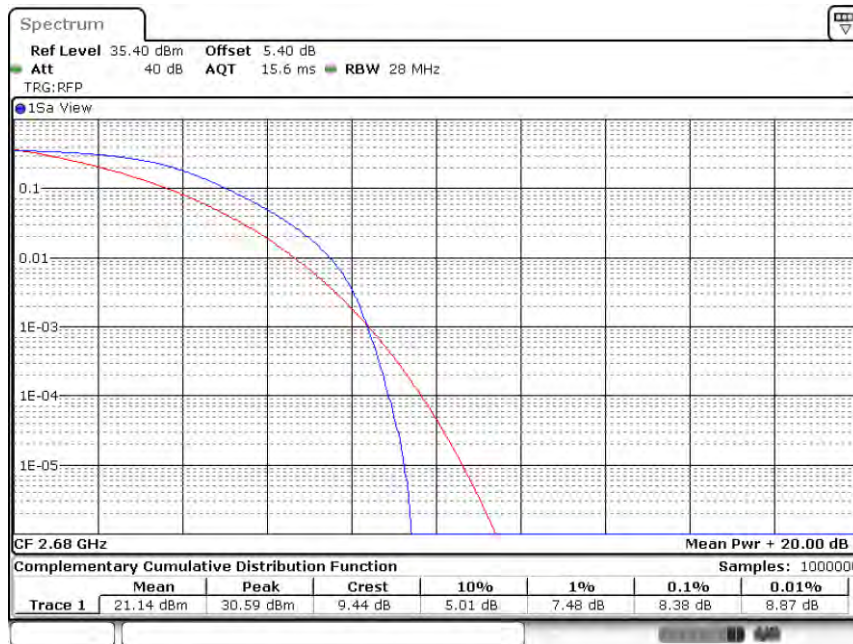
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Band41-20MHz-QPSK-40620-100RB#0



Date: 30.MAY.2021 05:27:15

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

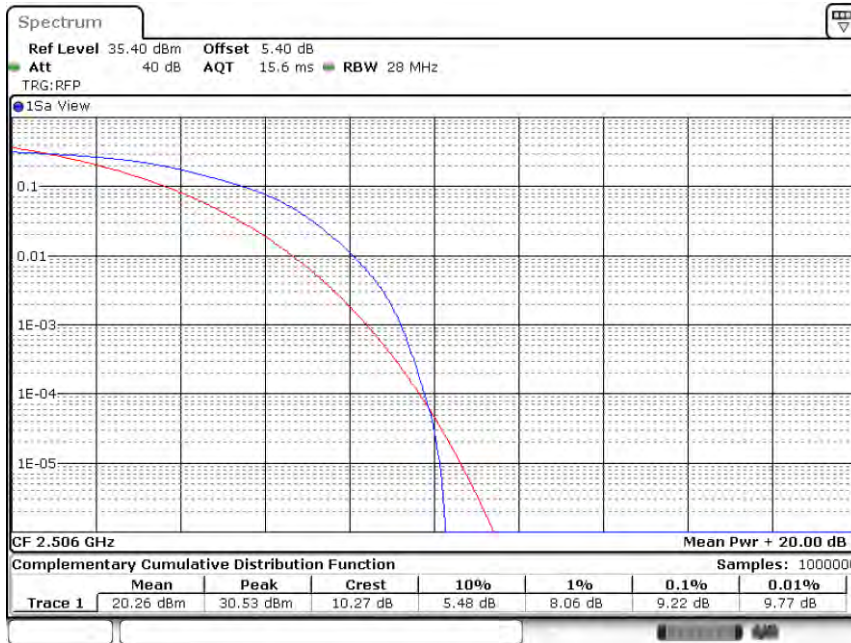


Date: 30.MAY.2021 05:27:37



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



Date: 30.MAY.2021 05:27:03

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



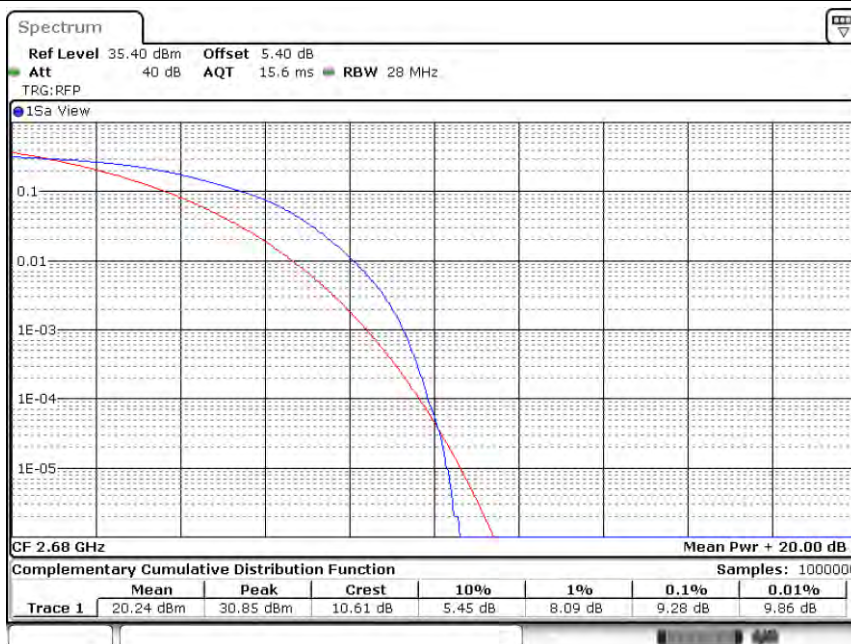
Date: 30.MAY.2021 05:27:26



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



Date: 30.MAY.2021 05:27:49

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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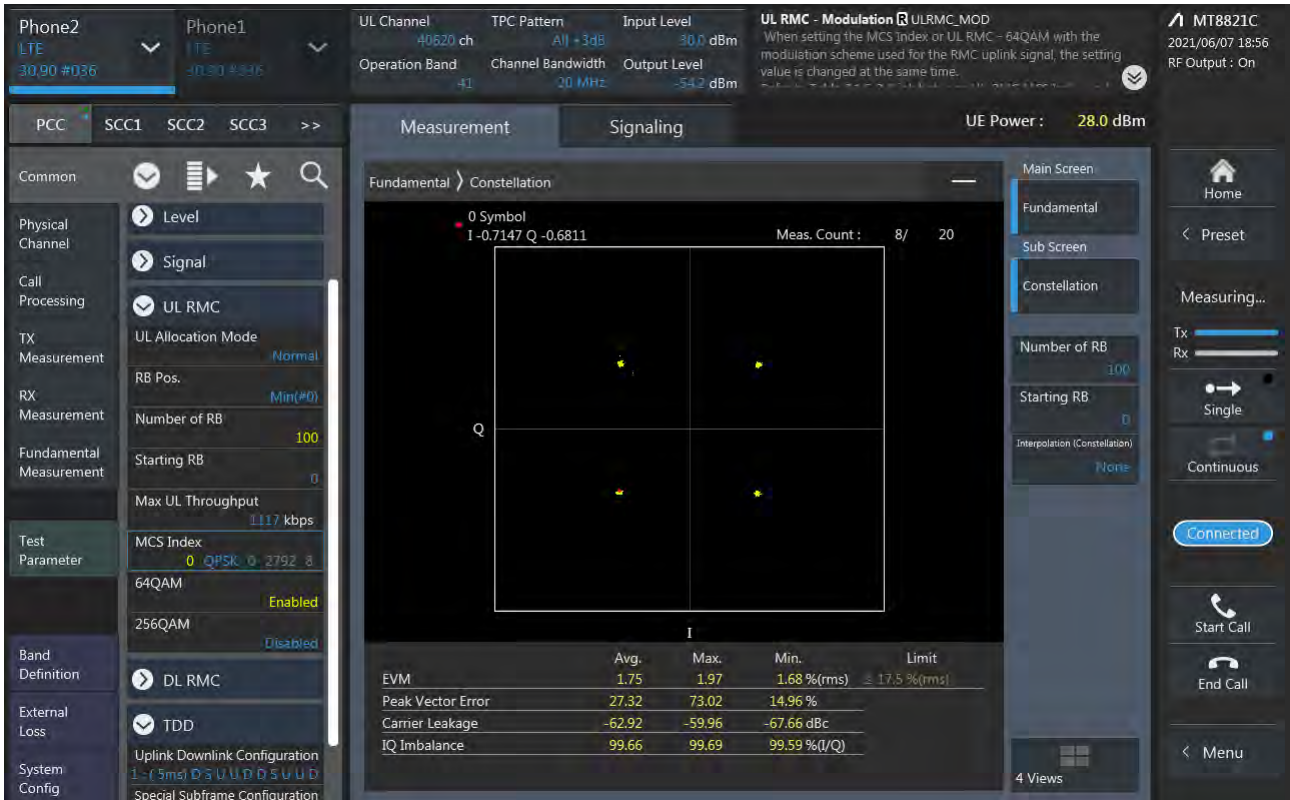
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

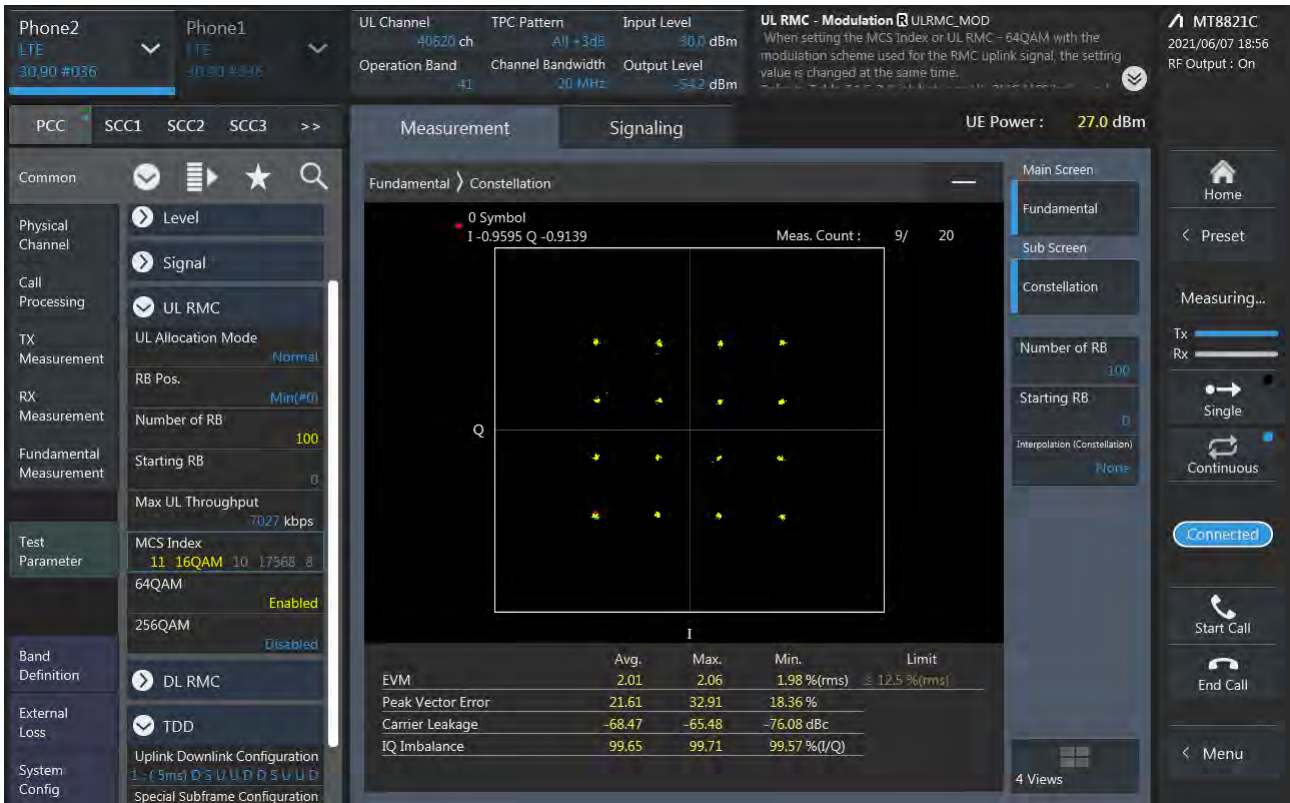
3.1.1. Test Channel = MCH





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
Band41	5MHz	QPSK	39675	25RB#0	4.476	4.920	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.476	4.920	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	4.910	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.486	4.970	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.496	4.960	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.505	4.940	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	10.040	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	9.800	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.891	9.760	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	8.891	9.620	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	17.700	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.457	15.660	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	15.570	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.457	16.290	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.457	15.480	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.427	15.540	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.902	19.640	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.800	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.862	19.760	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	19.440	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.822	19.320	PASS

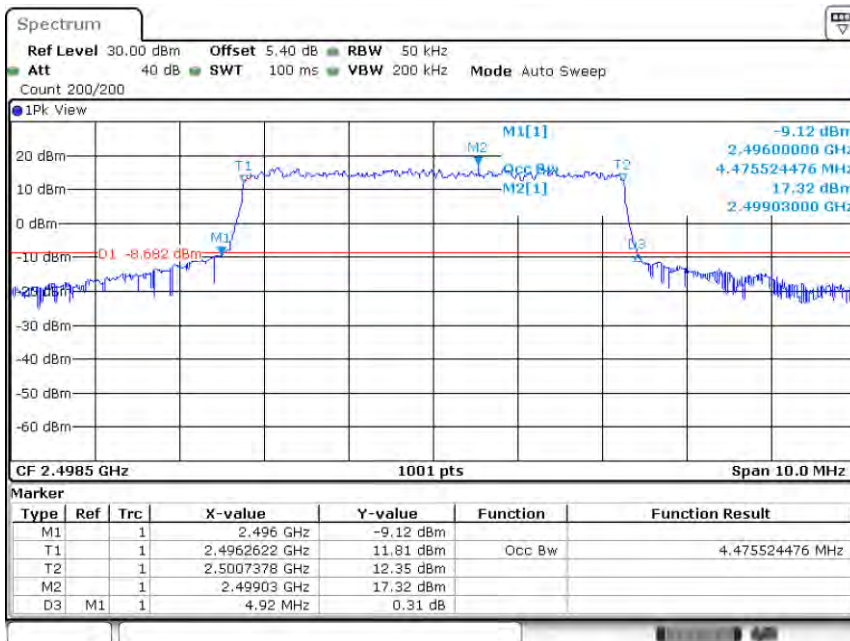


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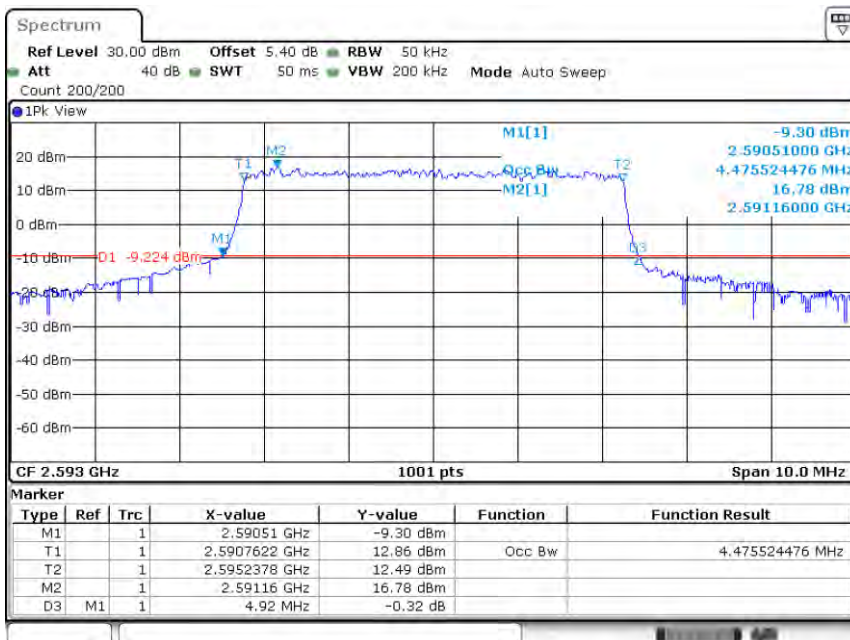
4.2. Test Plots

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



Date: 30.MAY.2021 05:10:59

Band41-5MHz-QPSK-40620-25RB#0-4.476

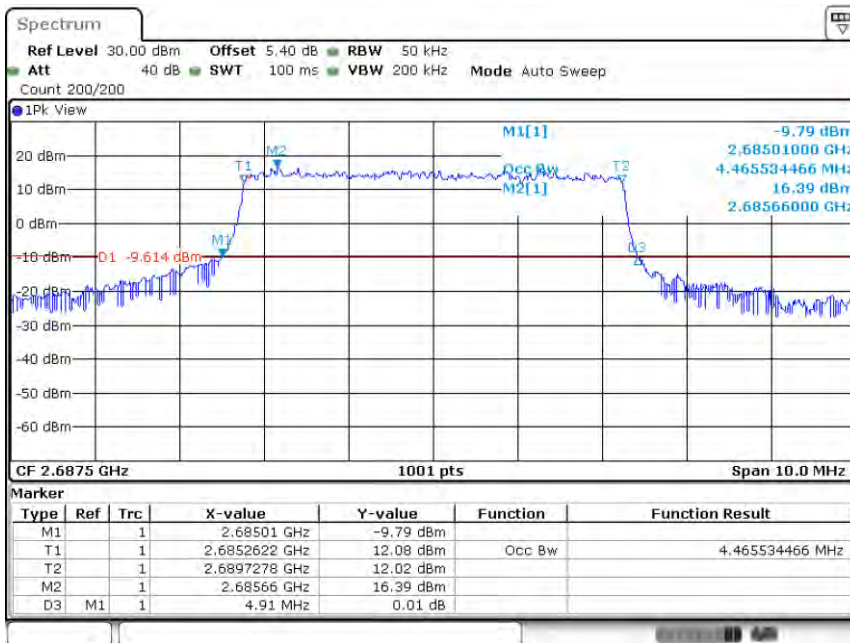


Date: 30.MAY.2021 05:12:50



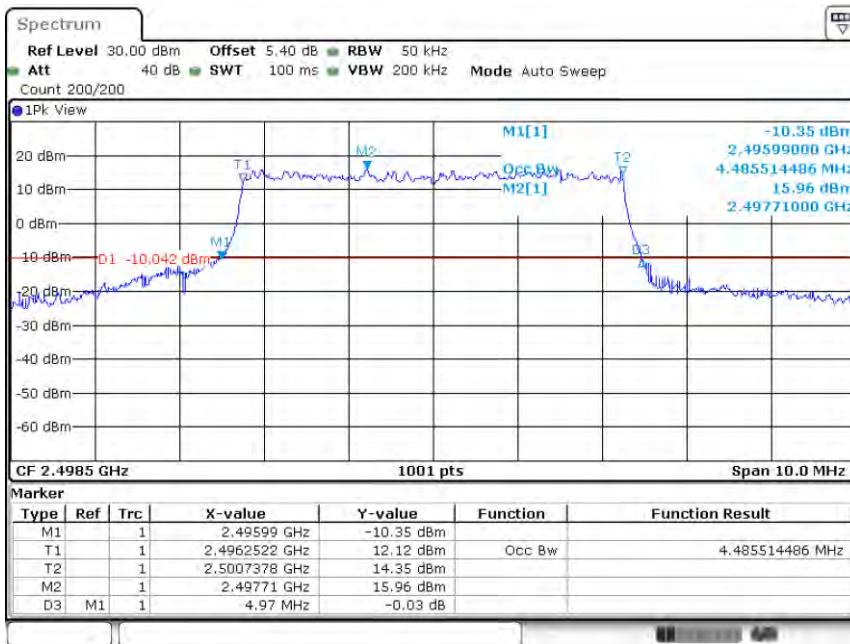
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Band41-5MHz-QPSK-41565-25RB#0-4.466



Date: 30.MAY.2021 05:14:09

Band41-5MHz-16QAM-39675-25RB#0-4.486



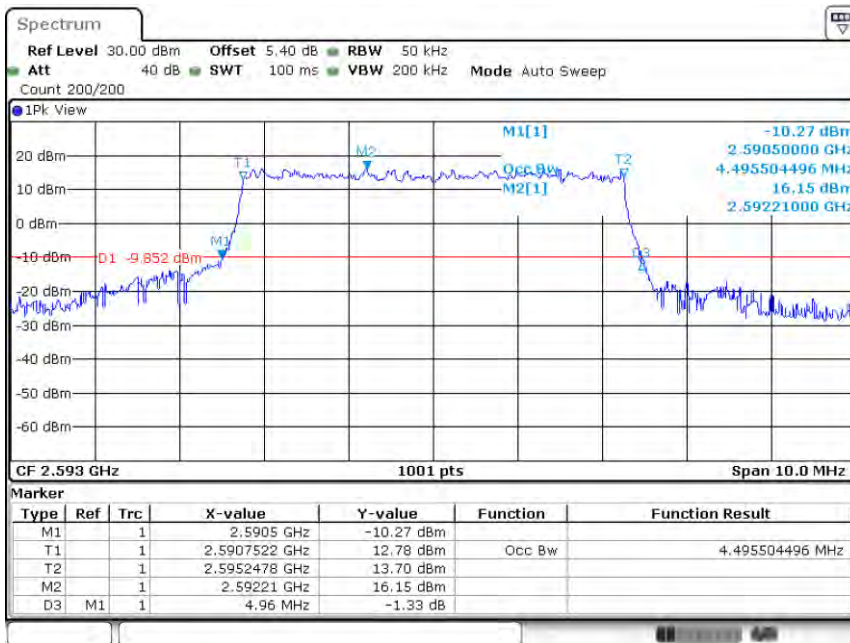
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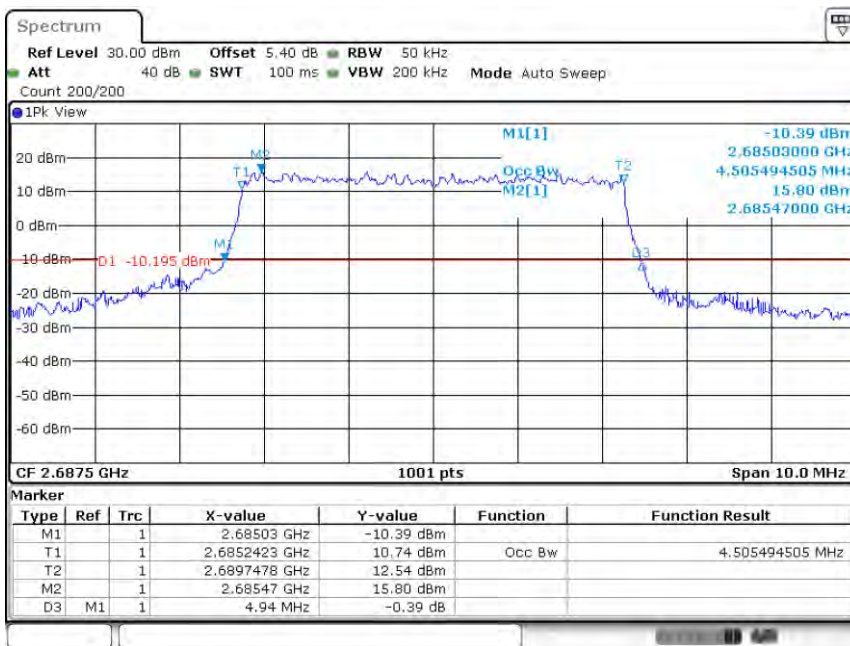


Band41-5MHz-16QAM-40620-25RB#0-4.496



Date: 30.MAY.2021 05:13:34

Band41-5MHz-16QAM-41565-25RB#0-4.505



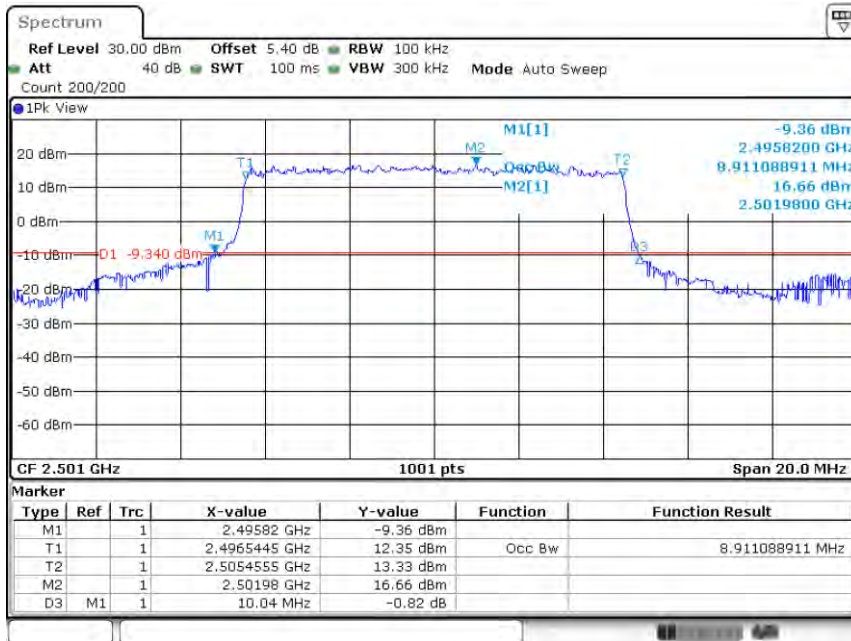
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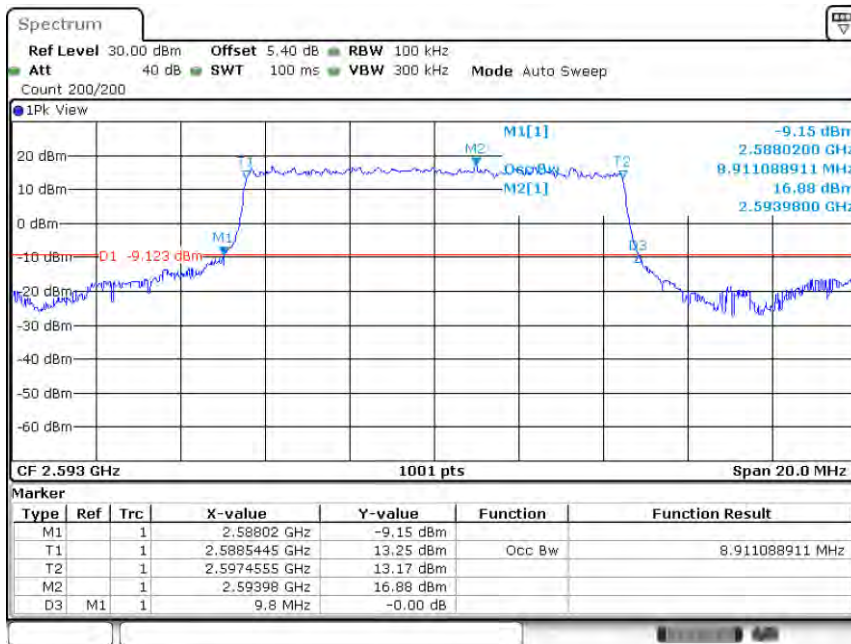


Band41-10MHz-QPSK-39700-50RB#0-8.911



Date: 30.MAY.2021 05:15:20

Band41-10MHz-QPSK-40620-50RB#0-8.911



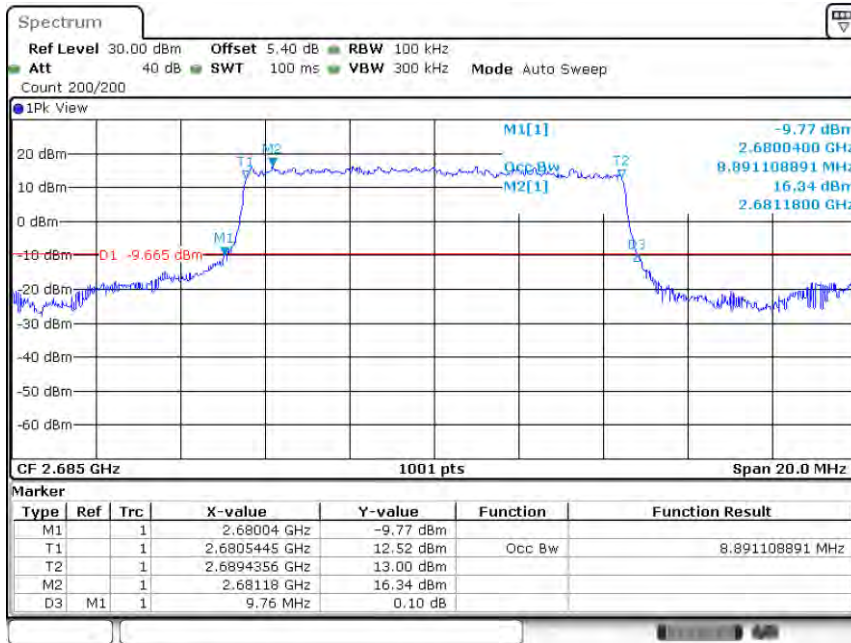
Date: 30.MAY.2021 05:16:52



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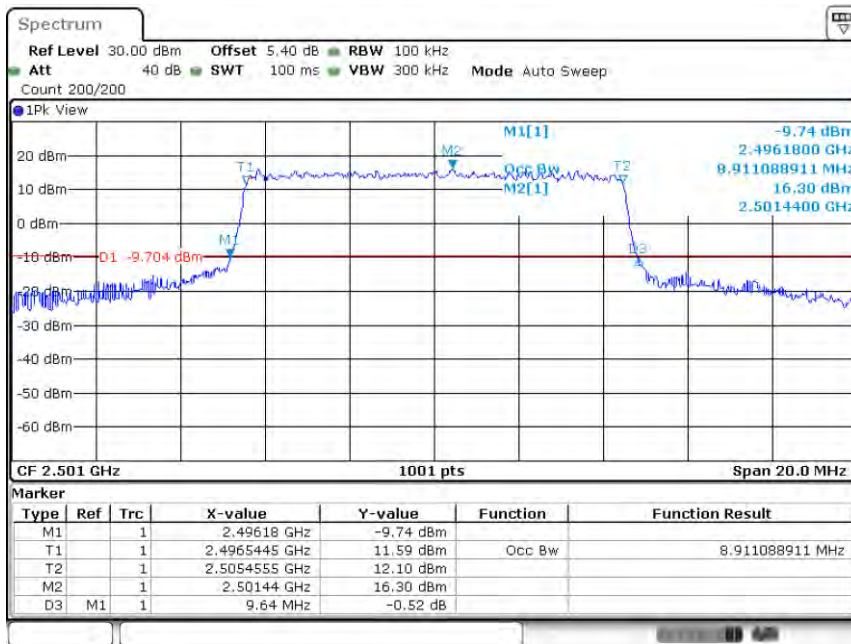


Band41-10MHz-QPSK-41540-50RB#0-8.891



Date: 30.MAY.2021 05:17:58

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



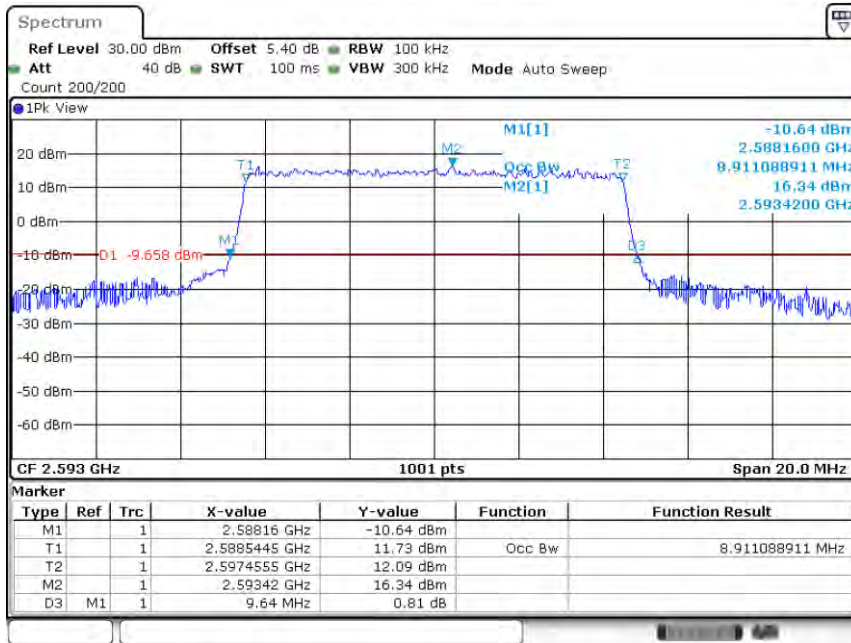
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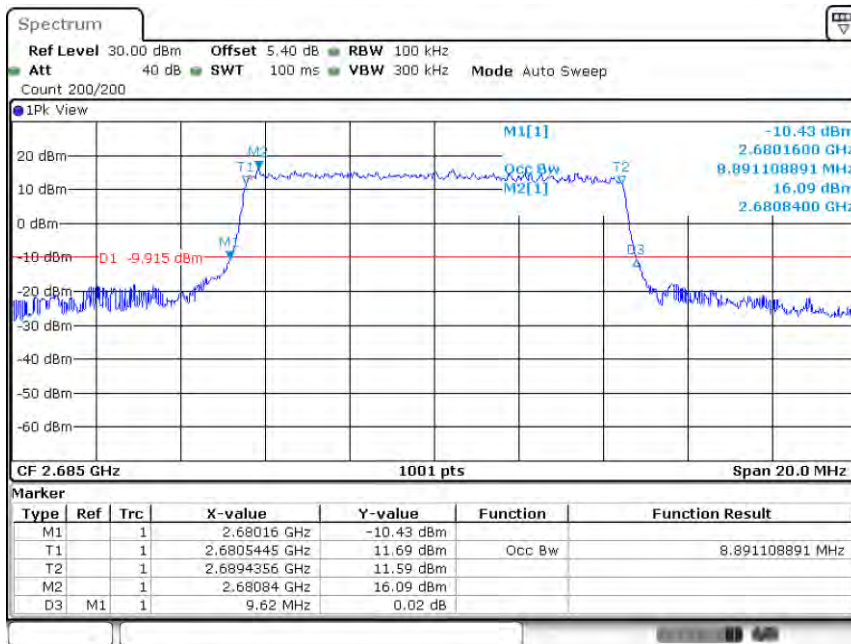


Band41-10MHz-16QAM-40620-50RB#0-8.911



Date: 30.MAY.2021 05:17:25

Band41-10MHz-16QAM-41540-50RB#0-8.891

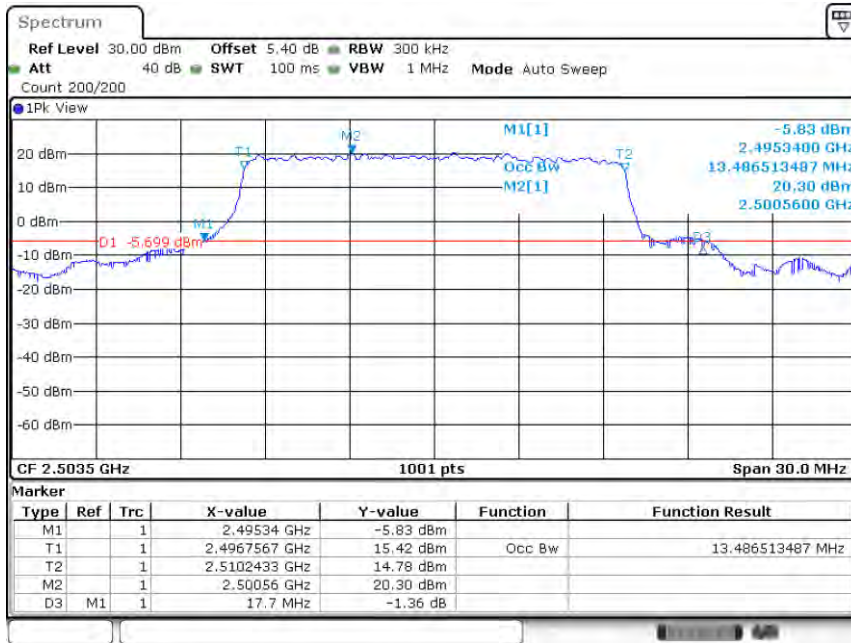


Date: 30.MAY.2021 05:18:30



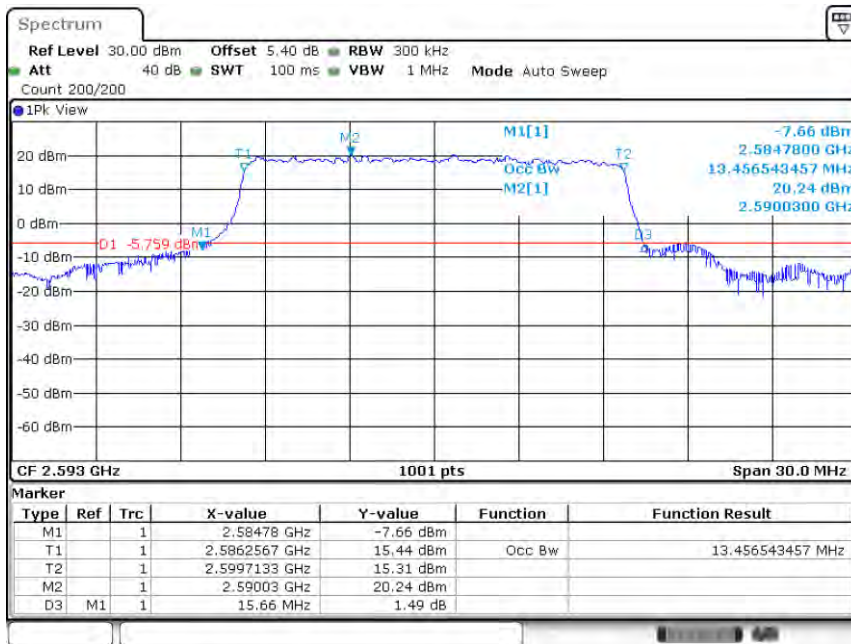
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Band41-15MHz-QPSK-39725-75RB#0-13.487



Date: 30.MAY.2021 05:20:10

Band41-15MHz-QPSK-40620-75RB#0-13.457

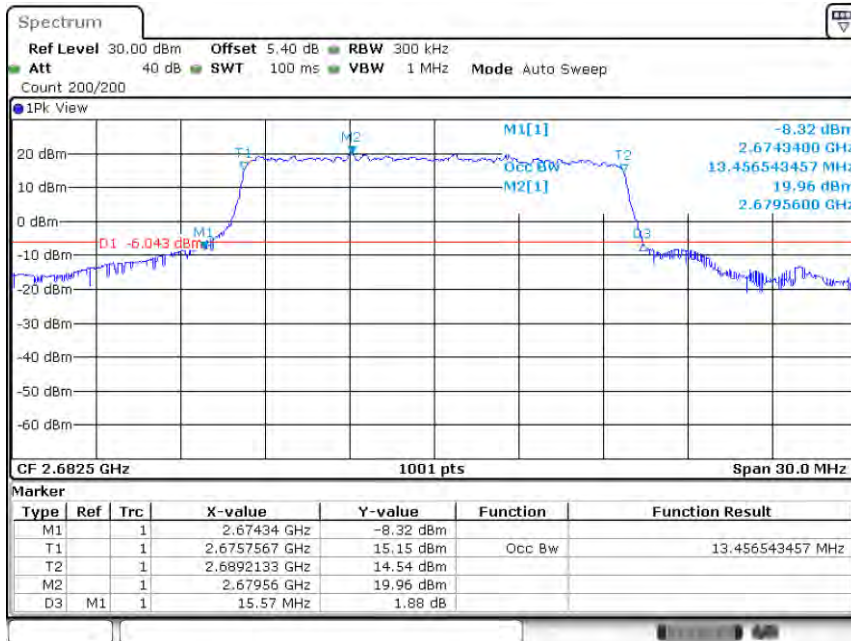


Date: 30.MAY.2021 05:21:35



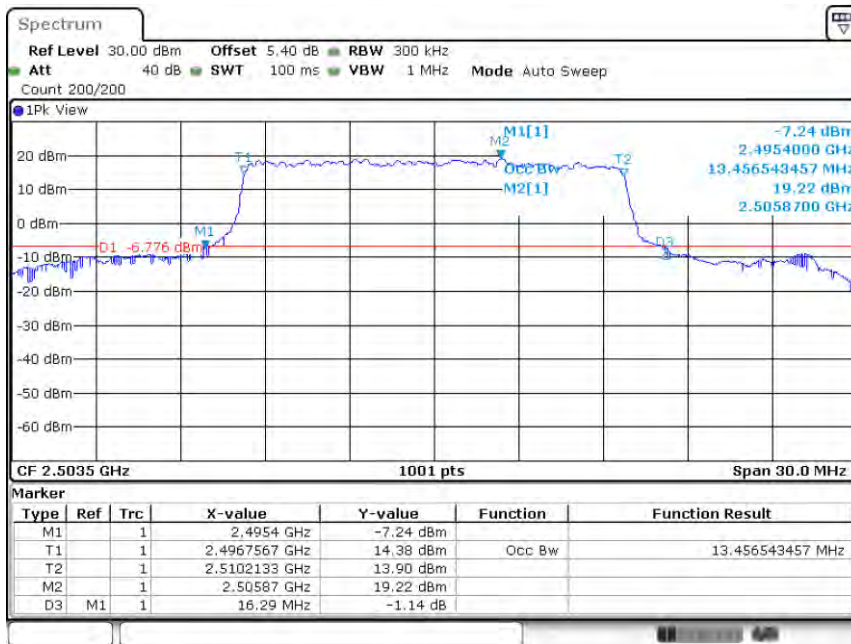
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Band41-15MHz-QPSK-41515-75RB#0-13.457



Date: 30.MAY.2021 05:22:41

Band41-15MHz-16QAM-39725-75RB#0-13.457

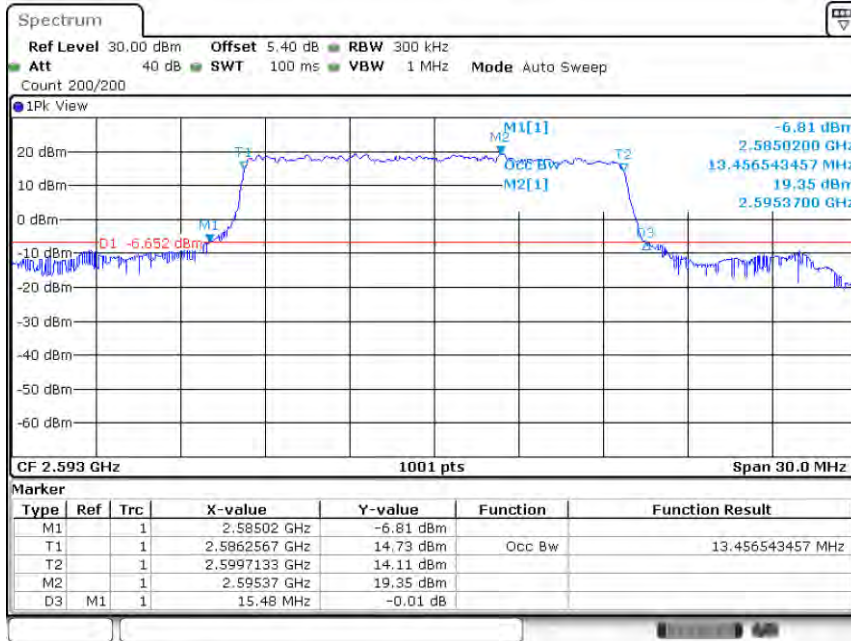


Date: 30.MAY.2021 05:21:02



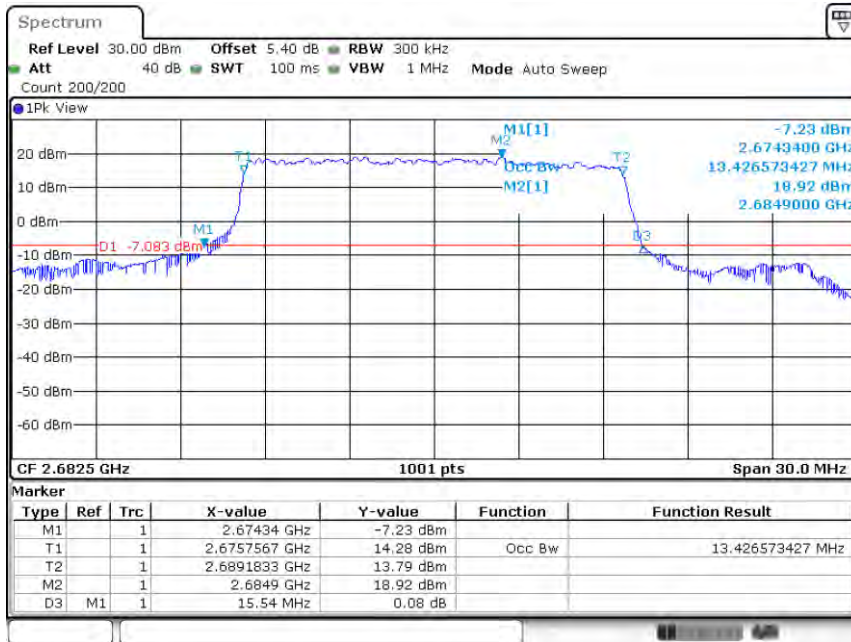
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Band41-15MHz-16QAM-40620-75RB#0-13.457



Date: 30.MAY.2021 05:22:08

Band41-15MHz-16QAM-41515-75RB#0-13.427



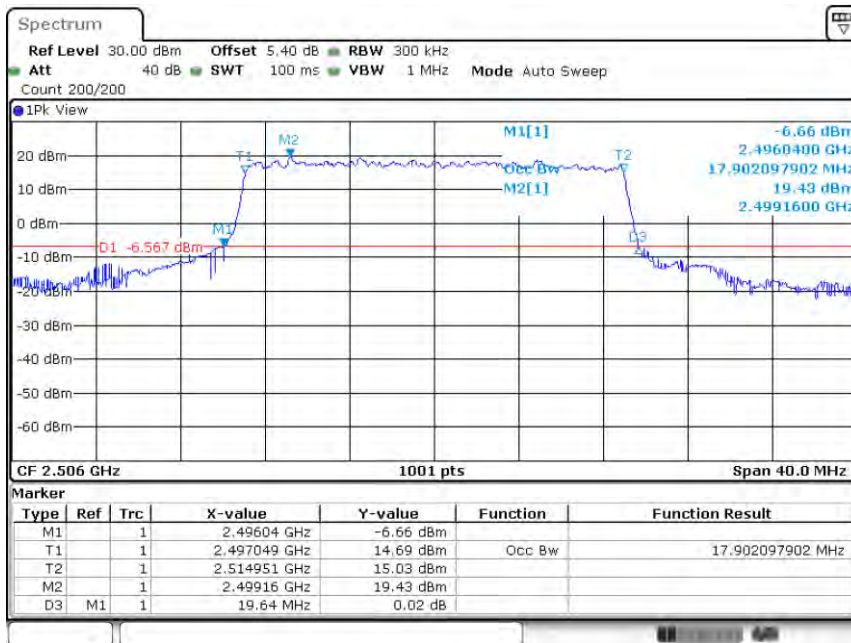
Date: 30.MAY.2021 05:23:13



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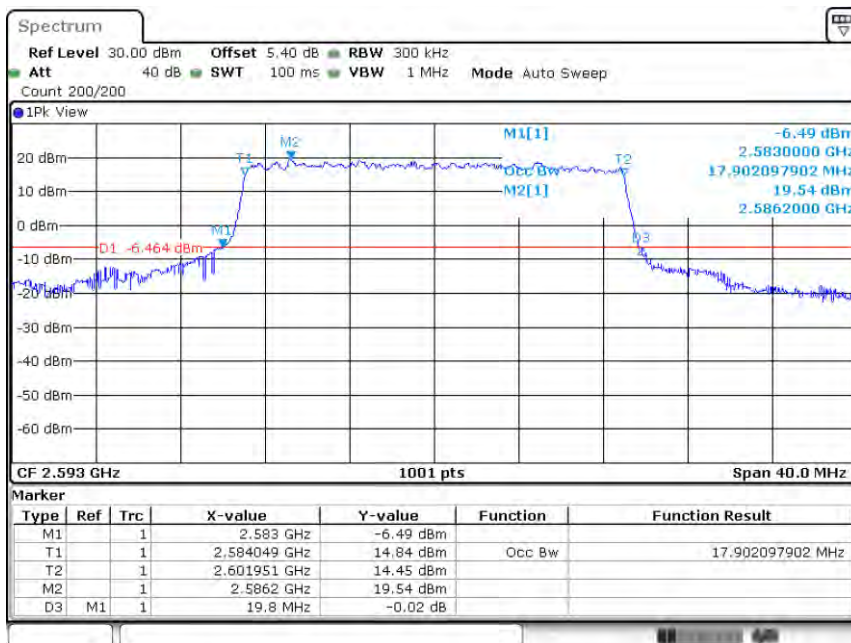


Band41-20MHz-QPSK-39750-100RB#0-17.902



Date: 30.MAY.2021 05:23:52

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



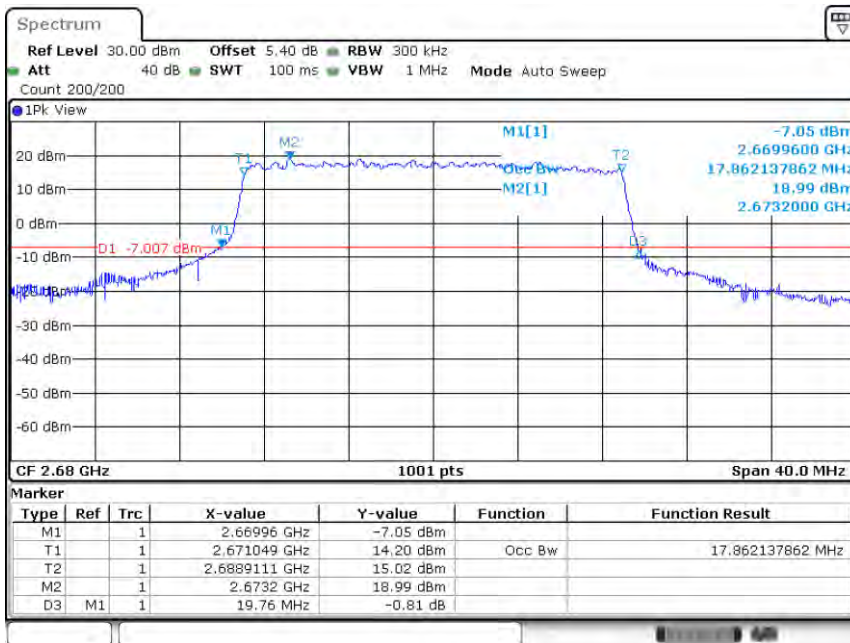
Date: 30.MAY.2021 05:24:58



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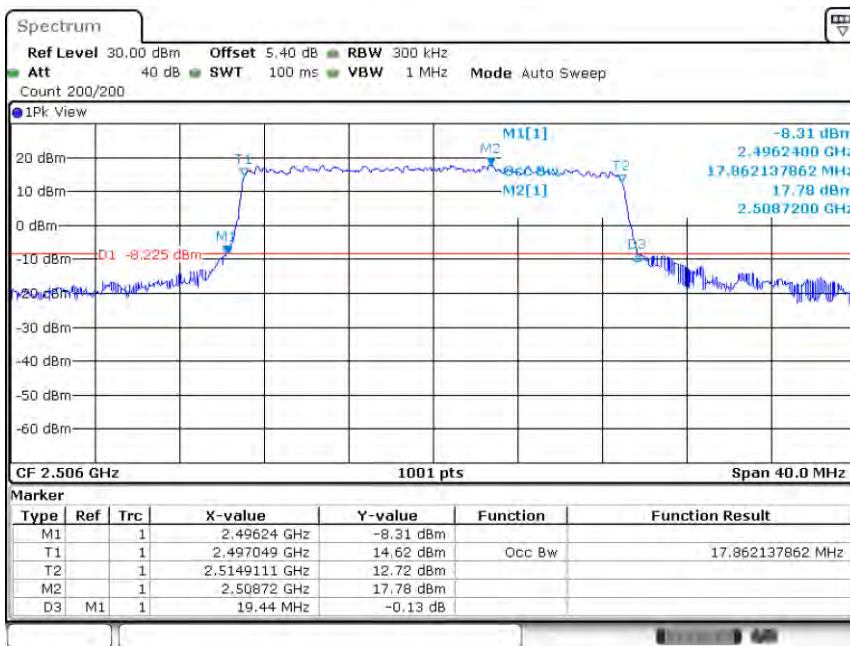


Band41-20MHz-QPSK-41490-100RB#0-17.862



Date: 30.MAY.2021 05:26:04

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



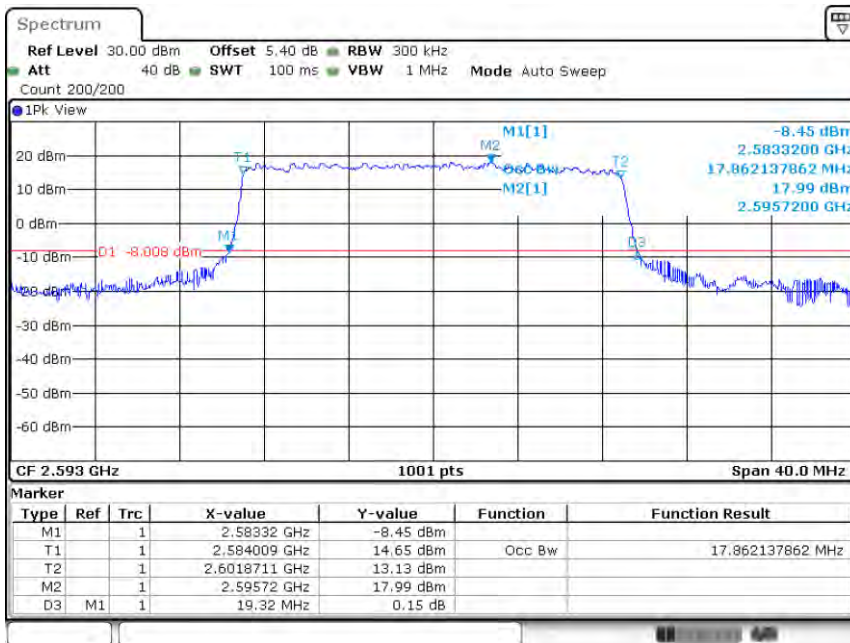
Date: 30.MAY.2021 05:24:25



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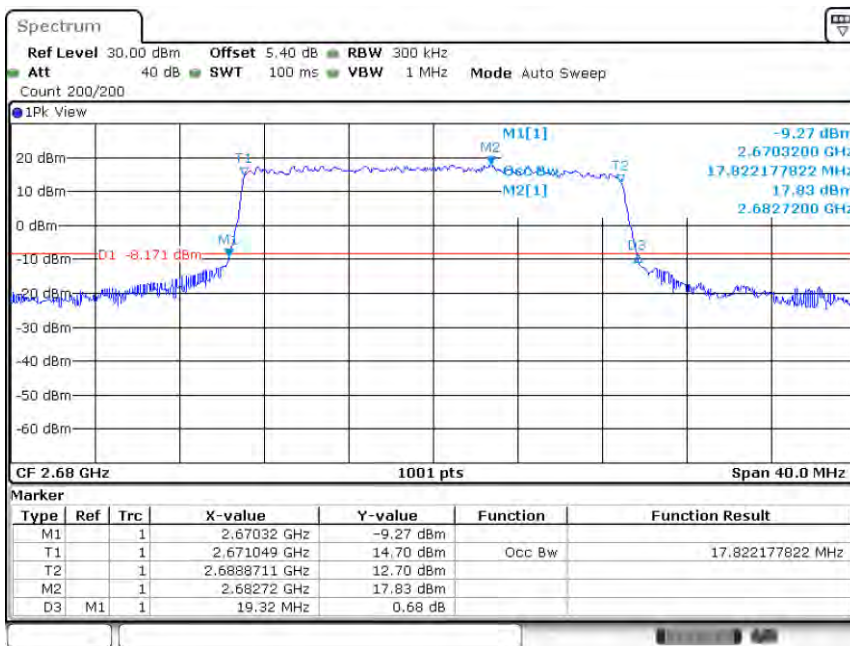


Band41-20MHz-16QAM-40620-100RB#0-17.862



Date: 30.MAY.2021 05:25:31

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



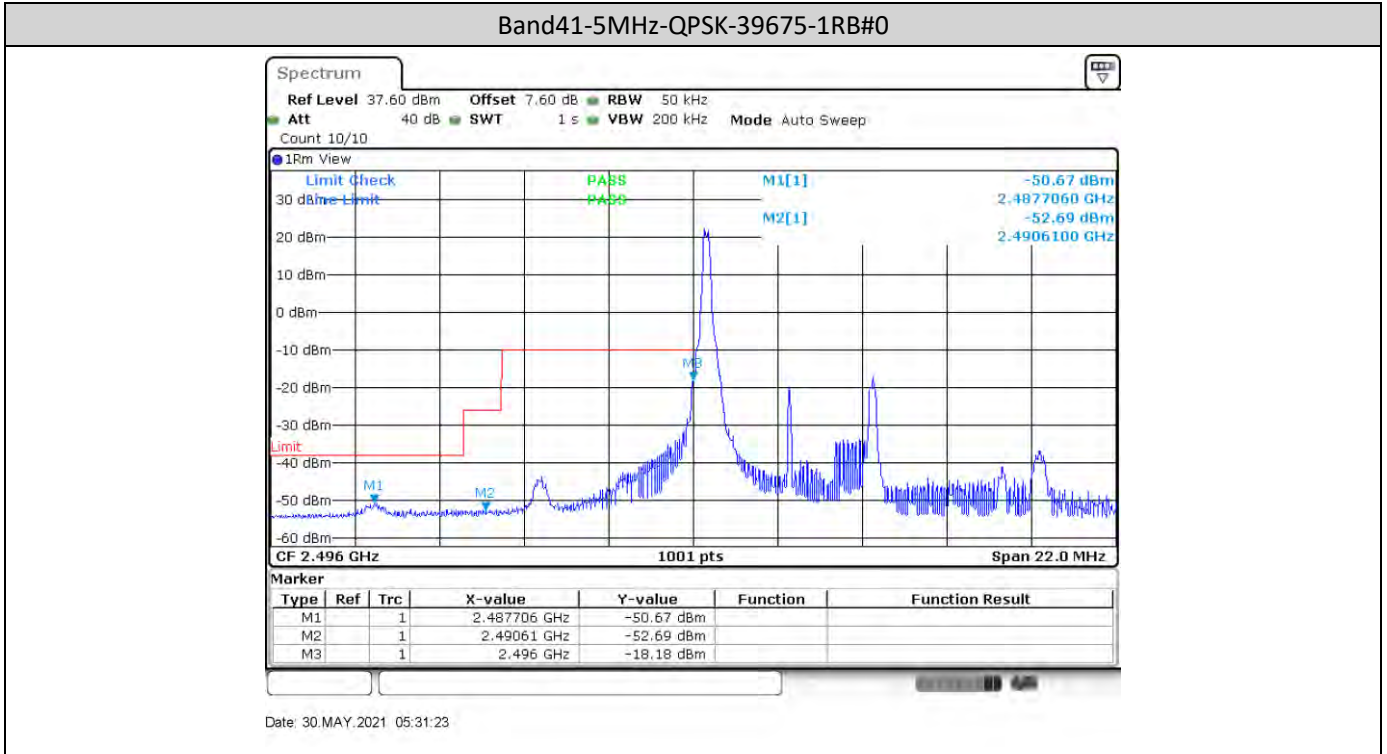
Date: 30.MAY.2021 05:26:36



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5. Band Edge Compliance

5.1. Test Plots



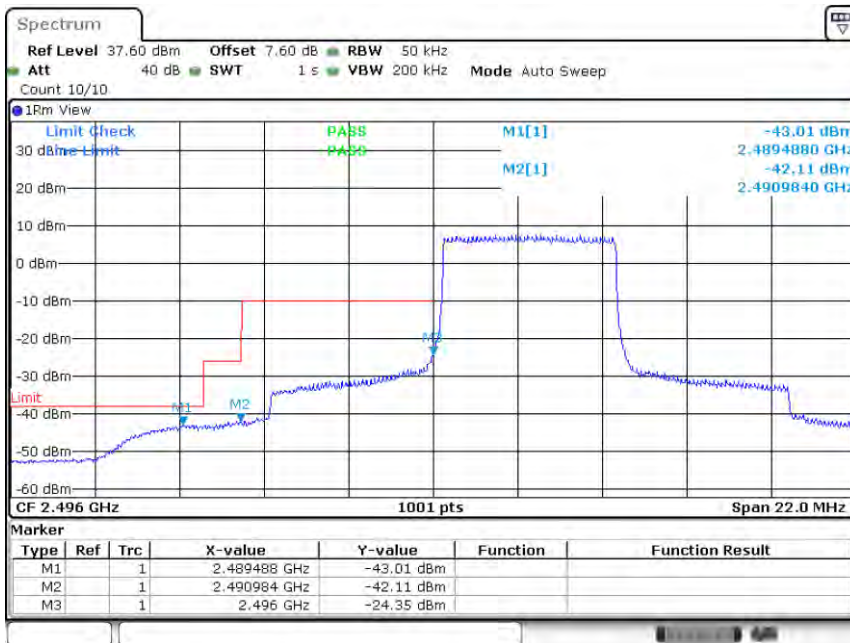
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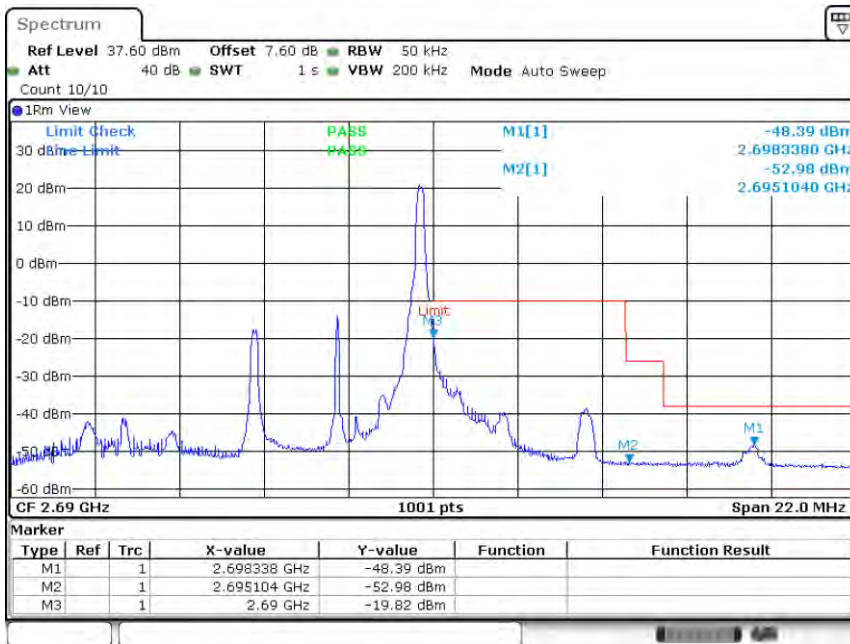


Band41-5MHz-QPSK-39675-25RB#0



Date: 30.MAY.2021 05:33:01

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

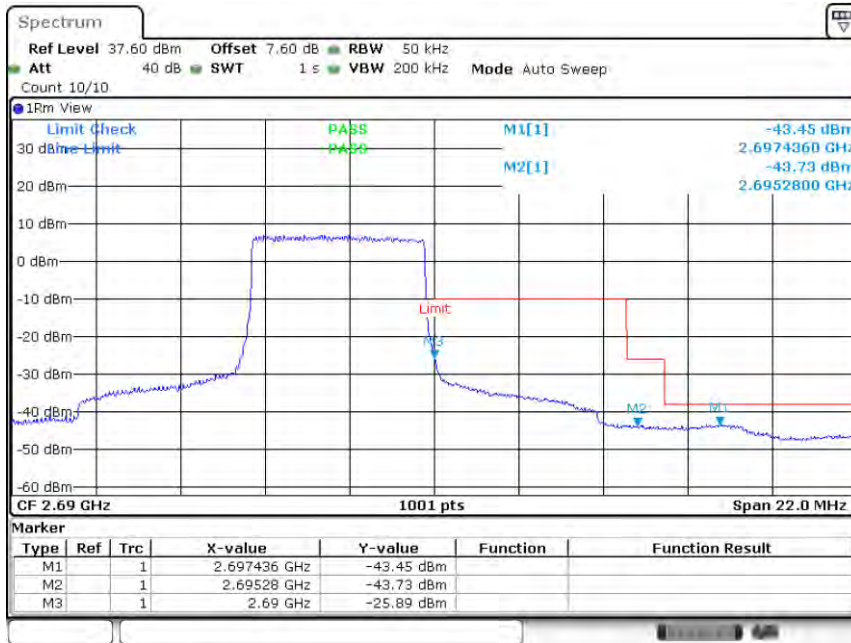


Date: 30.MAY.2021 05:32:11



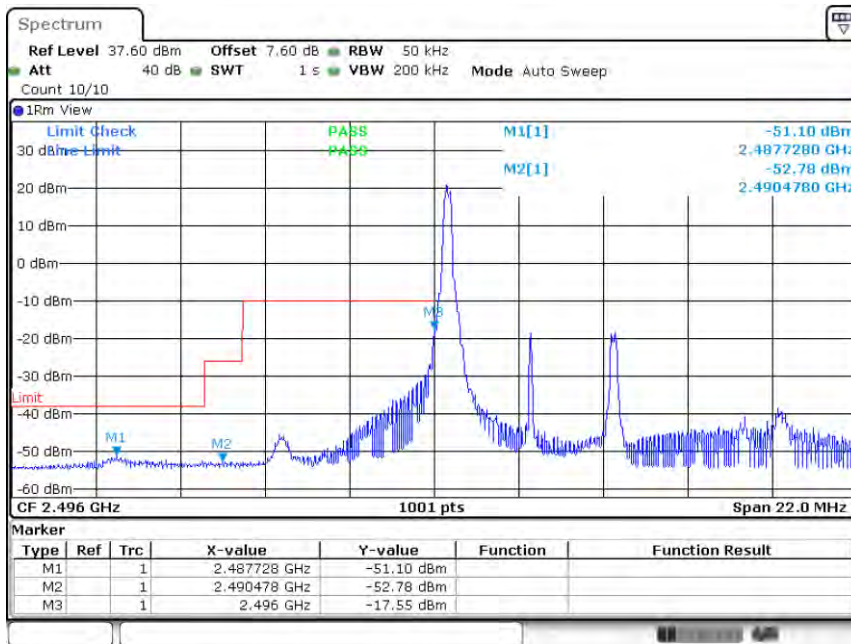
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Band41-5MHz-QPSK-41565-25RB#0



Date: 30.MAY.2021 05:33:48

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



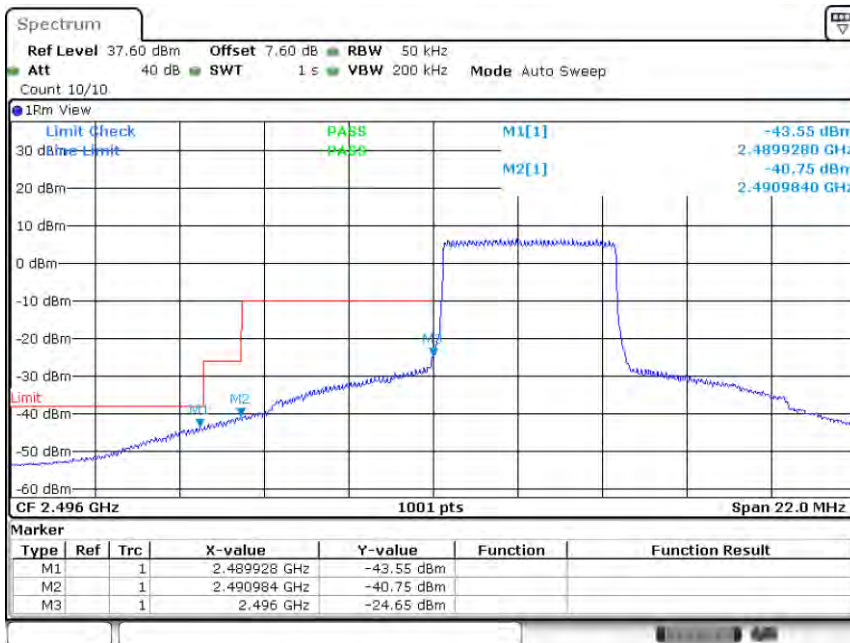
Date: 30.MAY.2021 05:31:44



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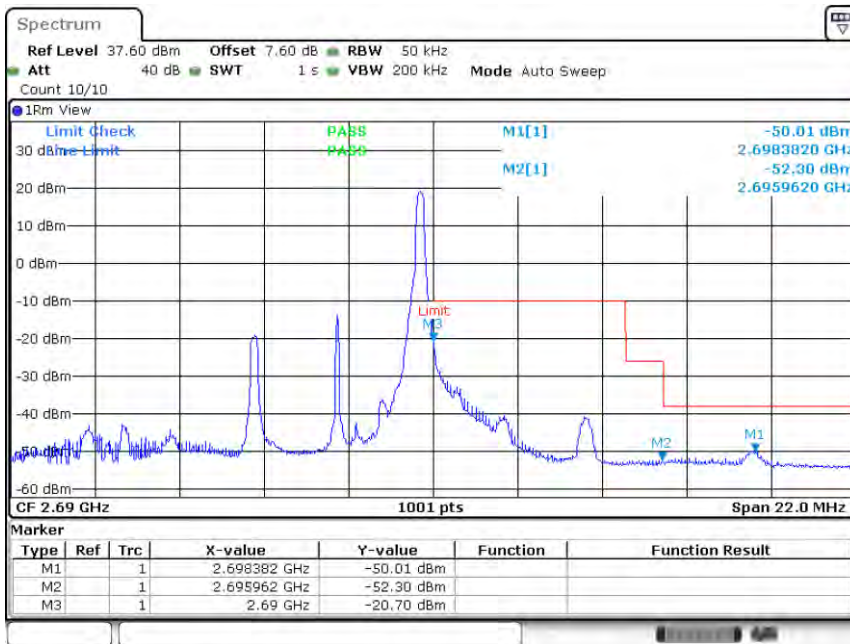


Band41-5MHz-16QAM-39675-25RB#0



Date: 30.MAY.2021 05:33:26

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



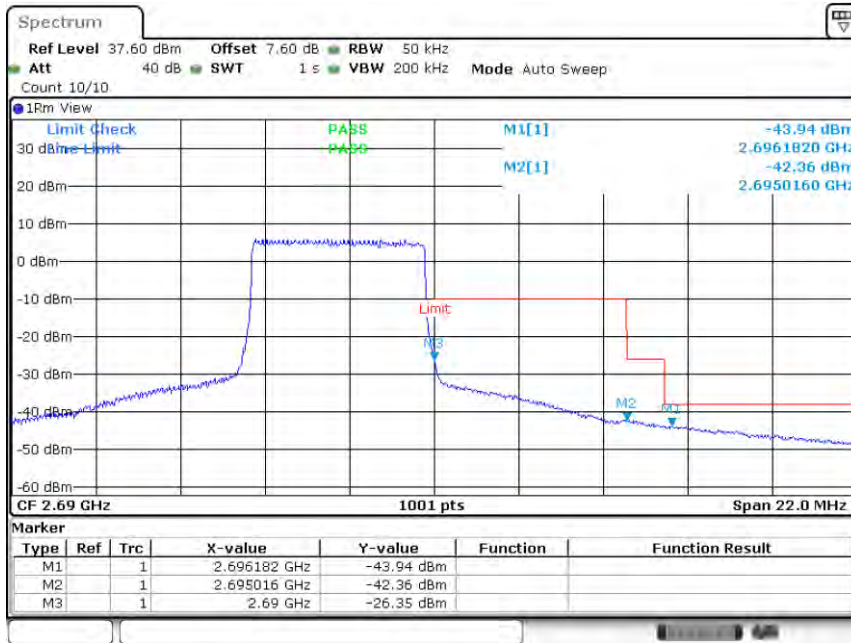
Date: 30.MAY.2021 05:32:32



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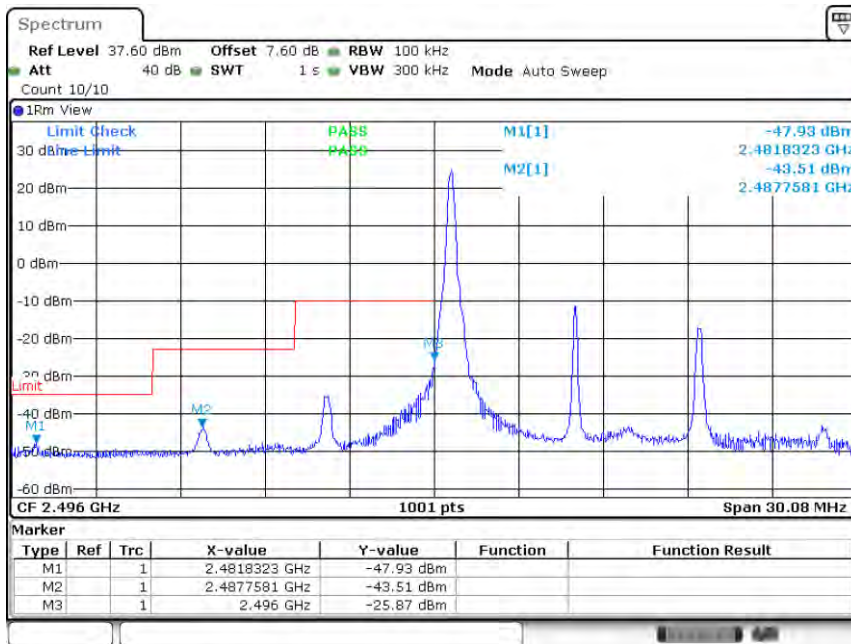


Band41-5MHz-16QAM-41565-25RB#0



Date: 30.MAY.2021 05:34:10

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

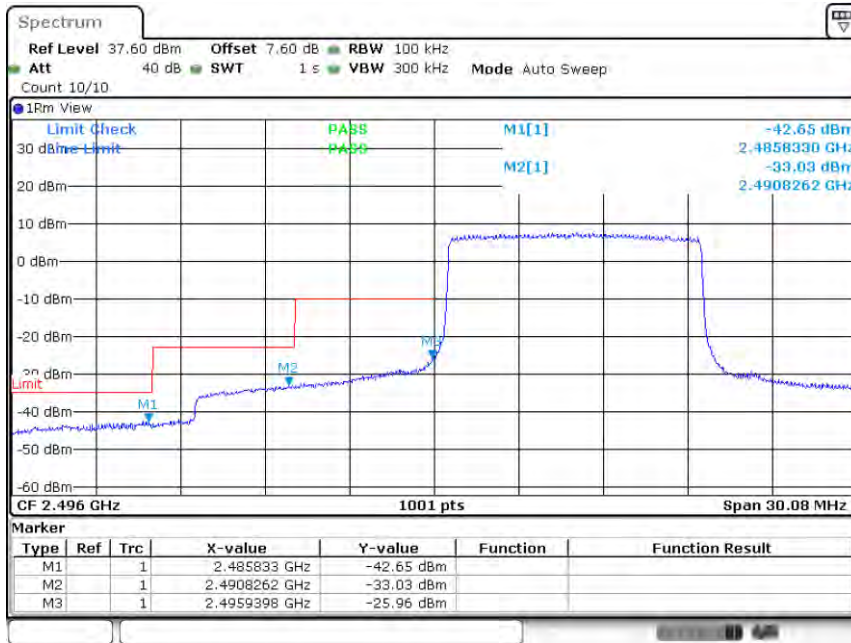


Date: 30.MAY.2021 05:34:38



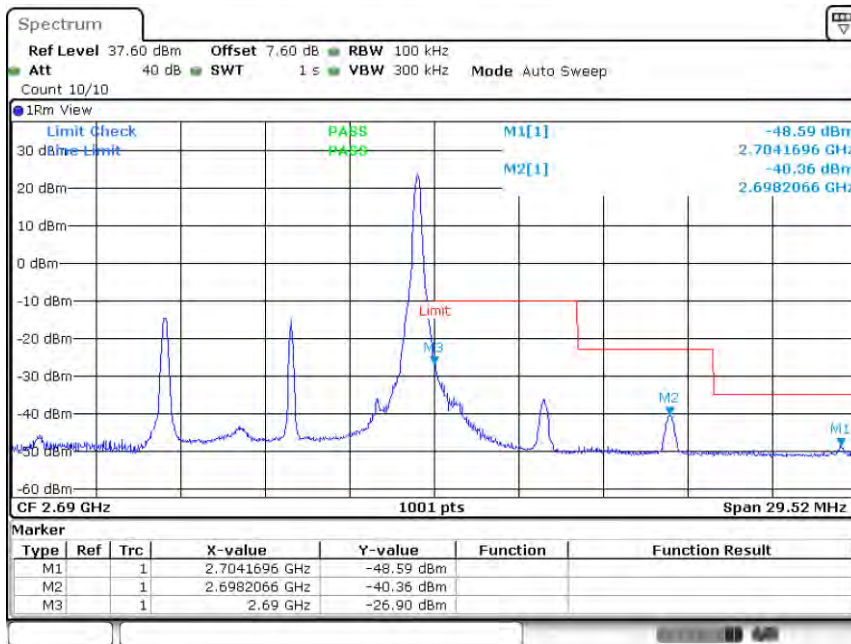
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Band41-10MHz-QPSK-39700-50RB#0



Date: 30.MAY.2021 05:36:13

Band41-10MHz-QPSK-41540-1RB#49

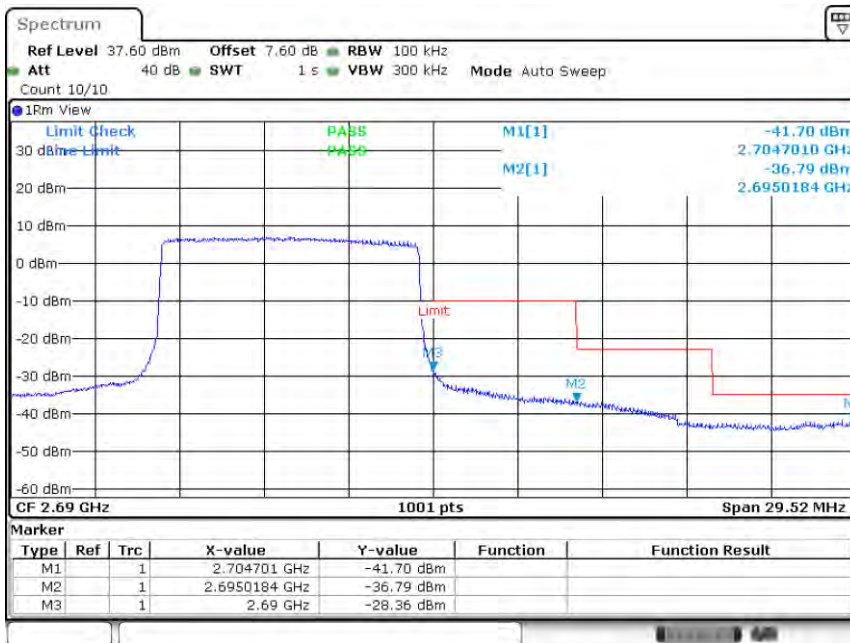


Date: 30.MAY.2021 05:35:25



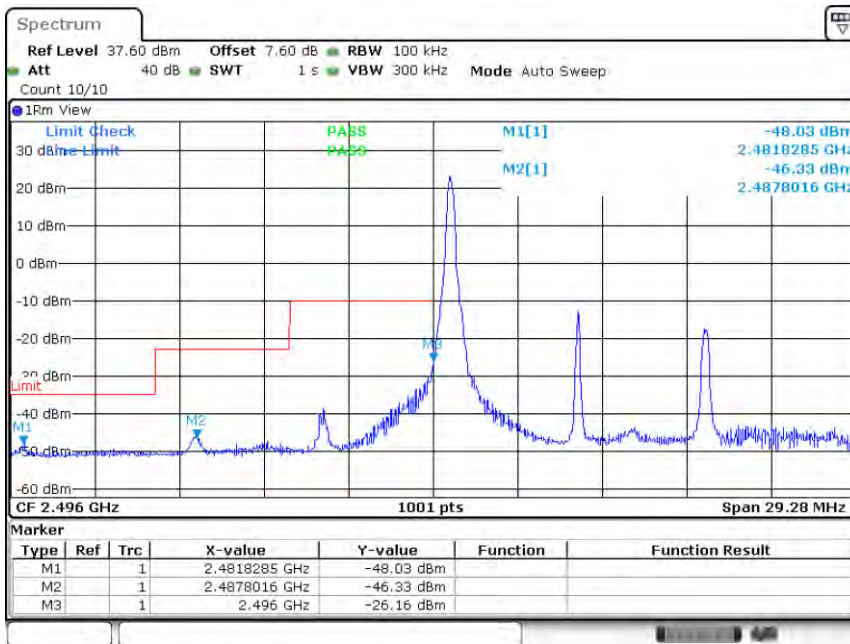
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Band41-10MHz-QPSK-41540-50RB#0



Date: 30.MAY.2021 05:36:57

Band41-10MHz-16QAM-39700-1RB#0



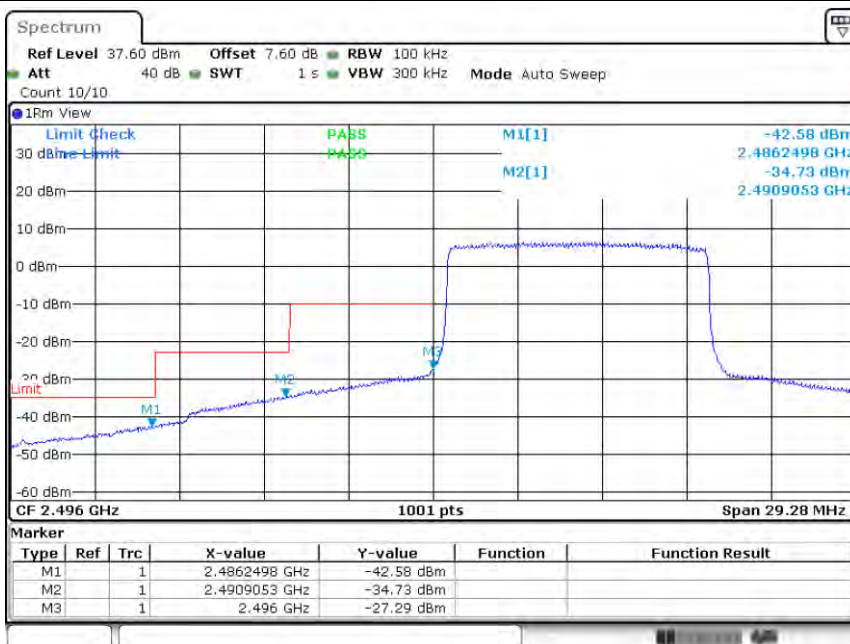
Date: 30.MAY.2021 05:34:59



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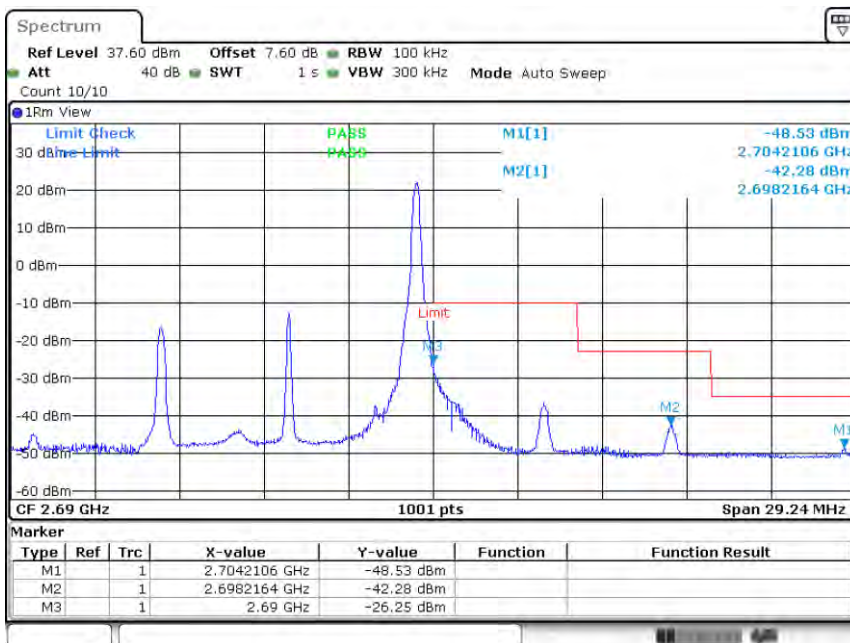


Band41-10MHz-16QAM-39700-50RB#0



Date: 30.MAY.2021 05:36:35

Band41-10MHz-16QAM-41540-1RB#49

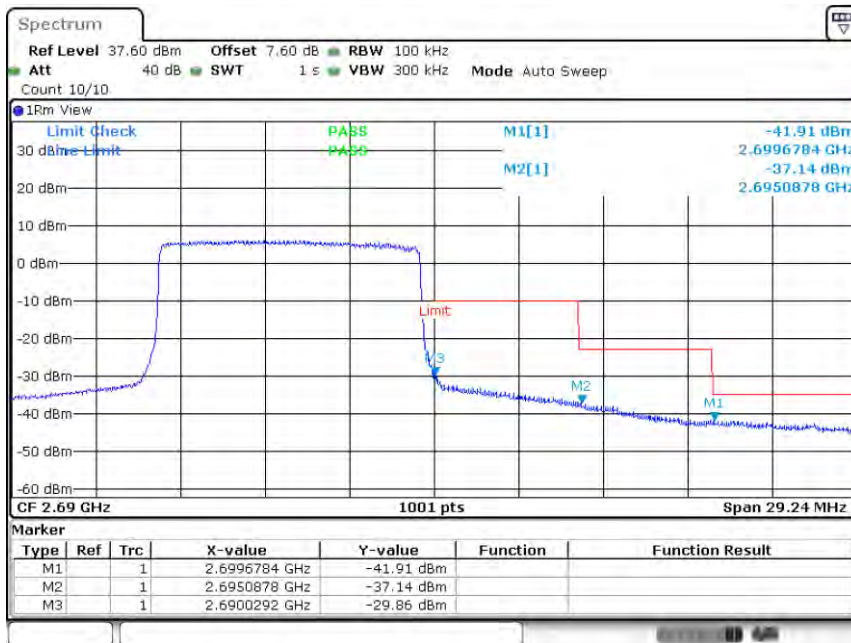


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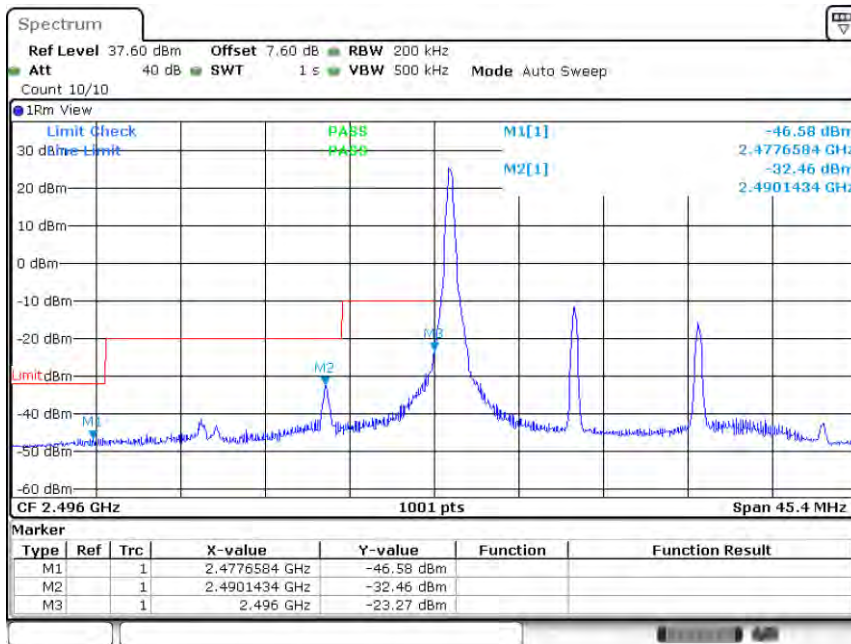
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Band41-10MHz-16QAM-41540-50RB#0



Date: 30.MAY.2021 05:37:19

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



Date: 30.MAY.2021 05:37:46



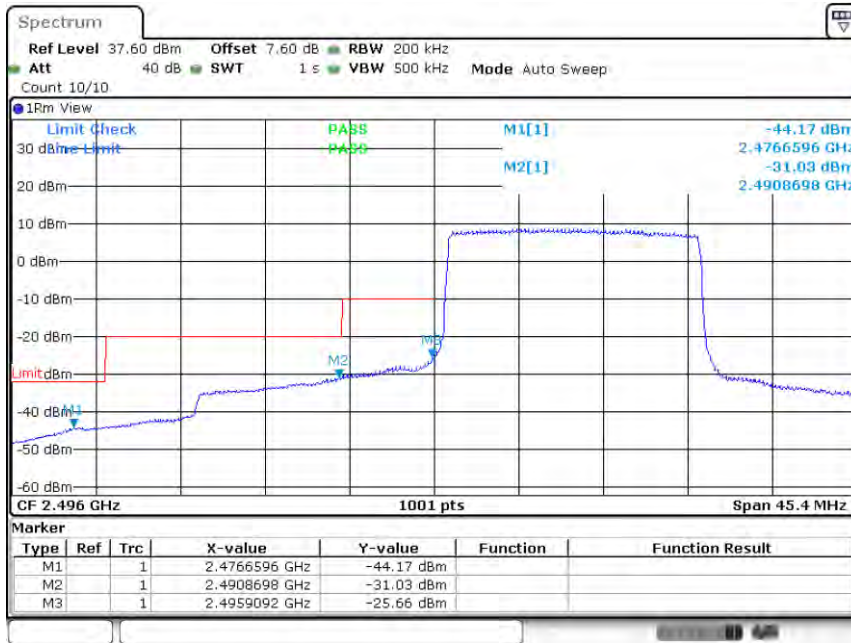
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

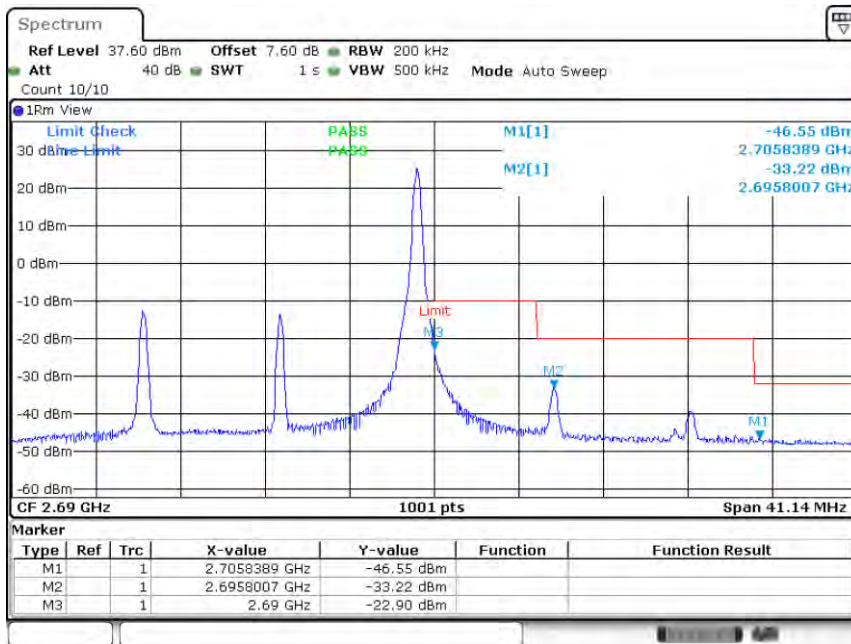


Band41-15MHz-QPSK-39725-75RB#0



Date: 30.MAY.2021 05:39:21

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

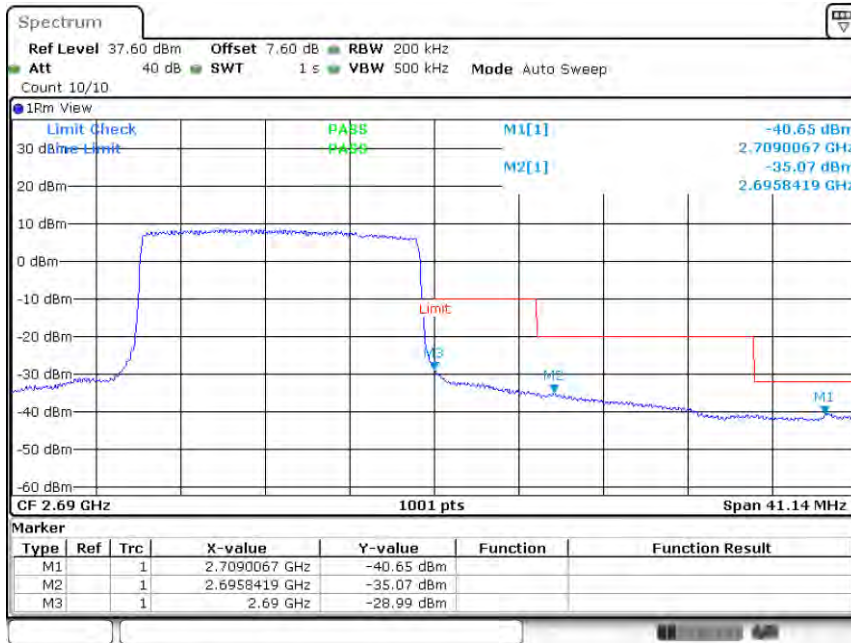


Date: 30.MAY.2021 05:38:34



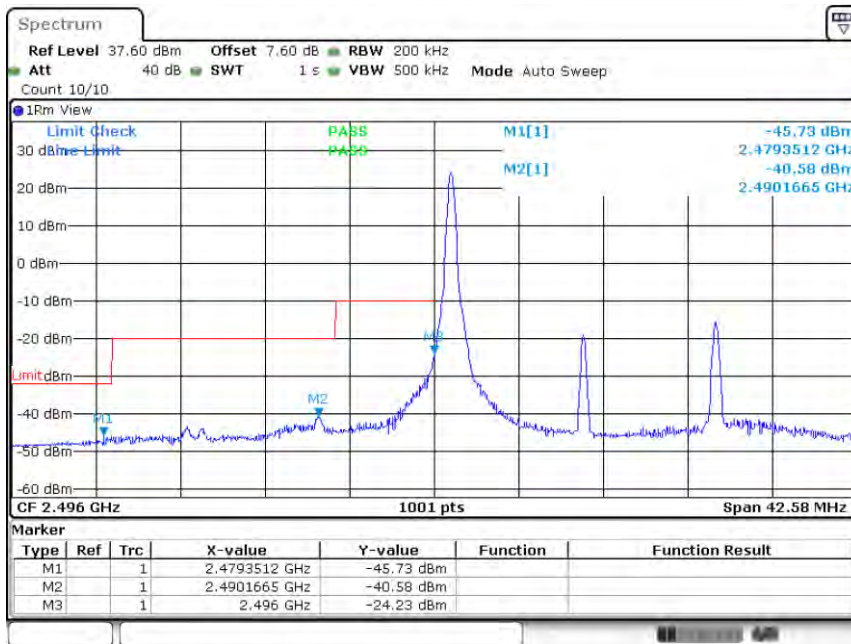
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Band41-15MHz-QPSK-41515-75RB#0



Date: 30.MAY.2021 05:40:05

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



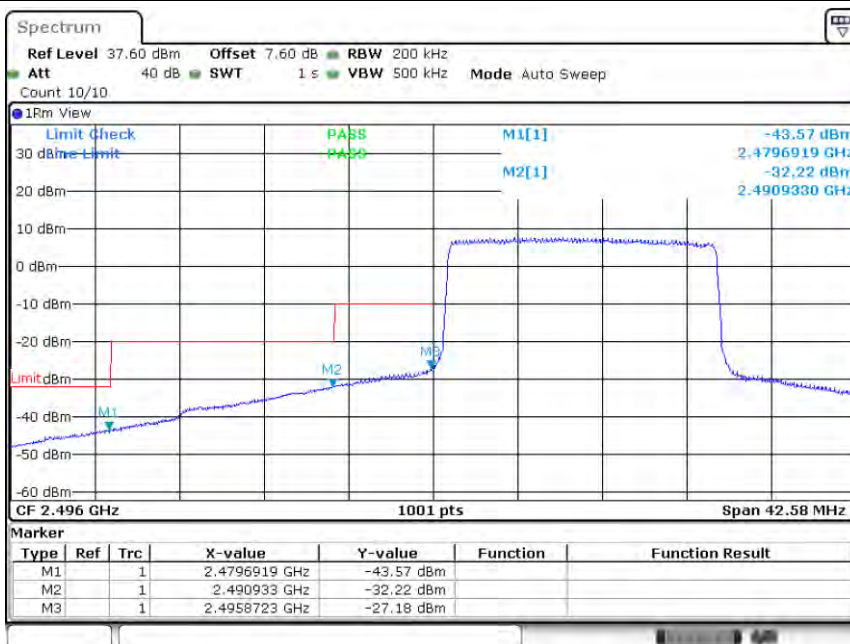
Date: 30.MAY.2021 05:38:08



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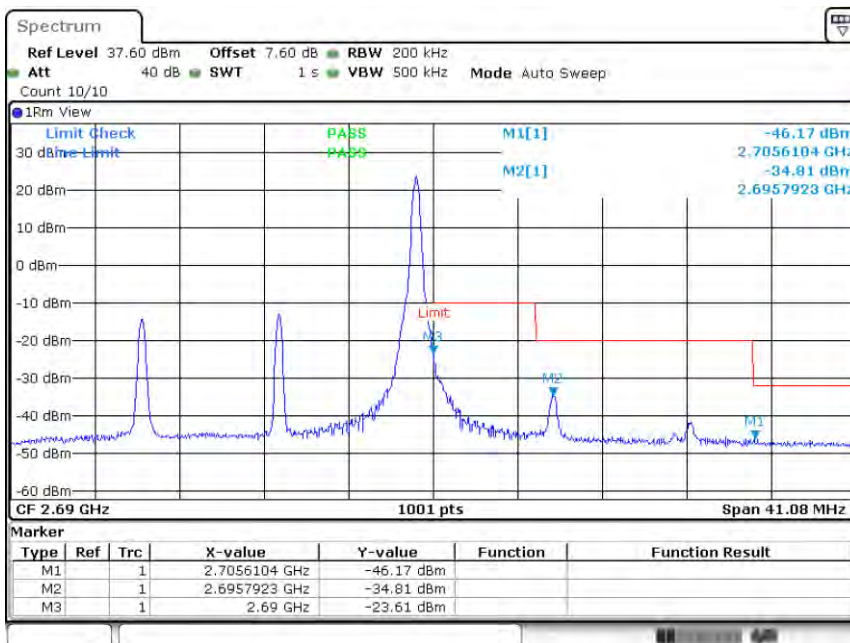


Band41-15MHz-16QAM-39725-75RB#0



Date: 30.MAY.2021 05:39:43

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

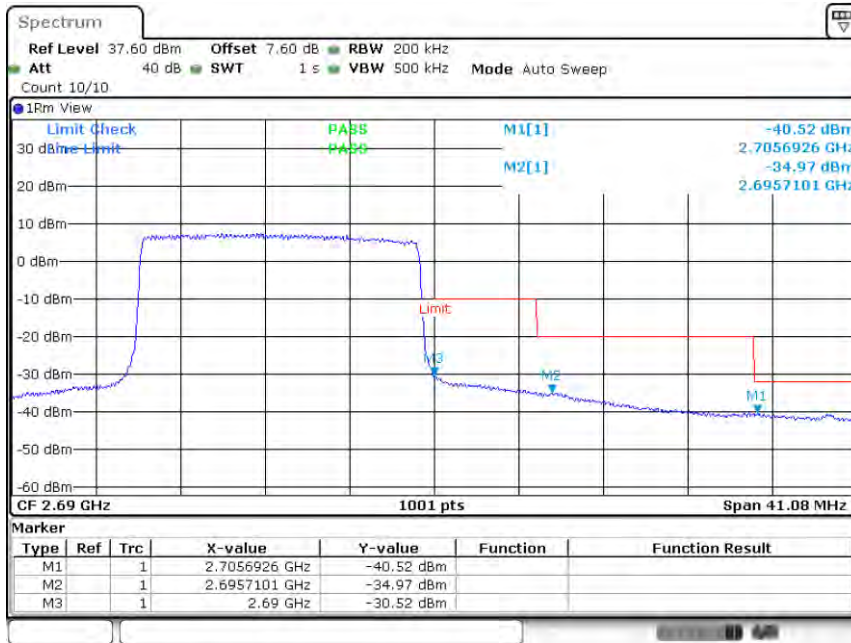


Date: 30.MAY.2021 05:38:56



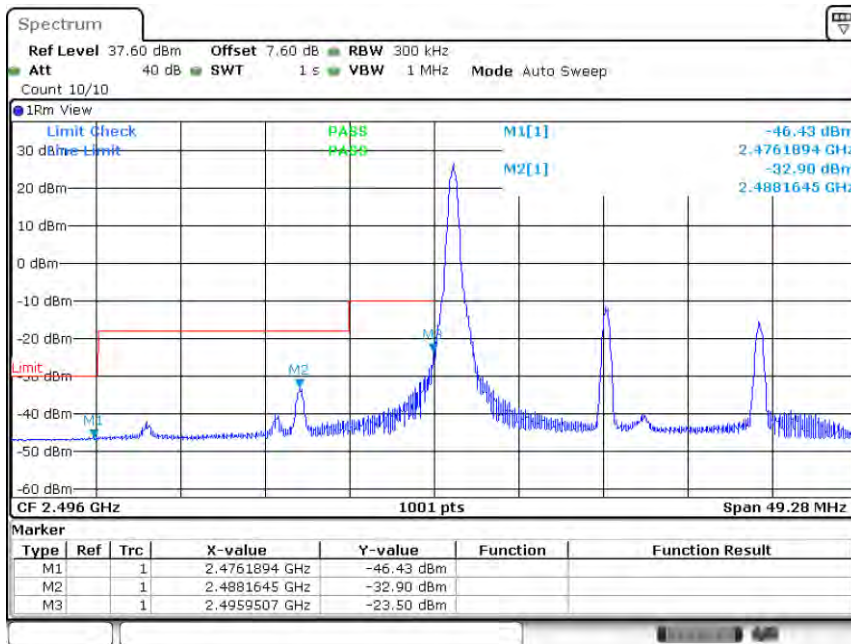
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Band41-15MHz-16QAM-41515-75RB#0



Date: 30.MAY.2021 05:40:27

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



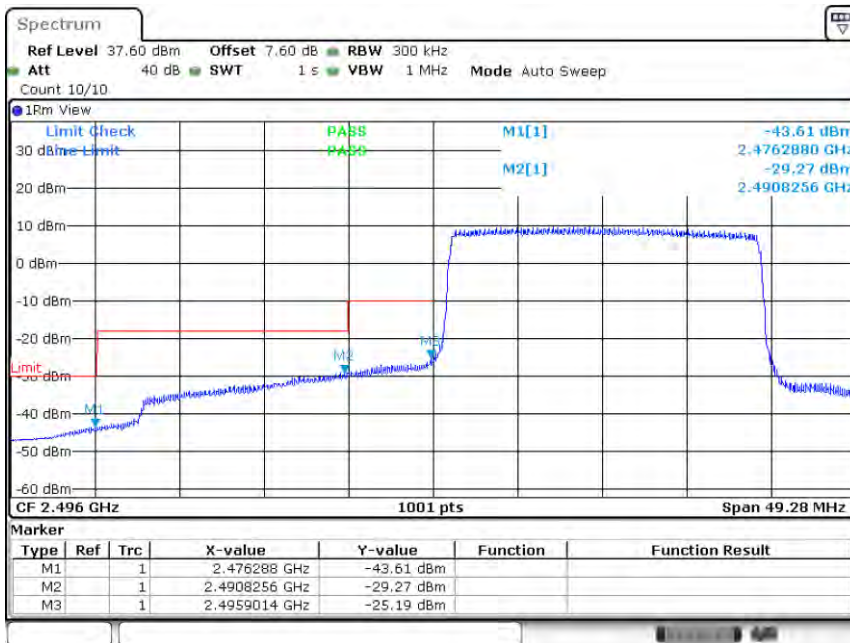
Date: 30.MAY.2021 05:40:54



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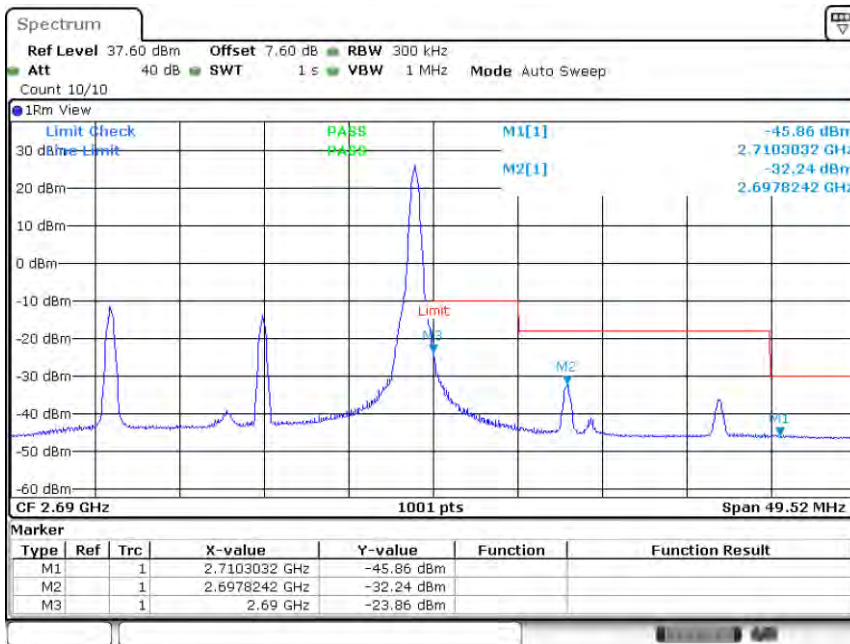


Band41-20MHz-QPSK-39750-100RB#0



Date: 30.MAY.2021 05:42:31

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

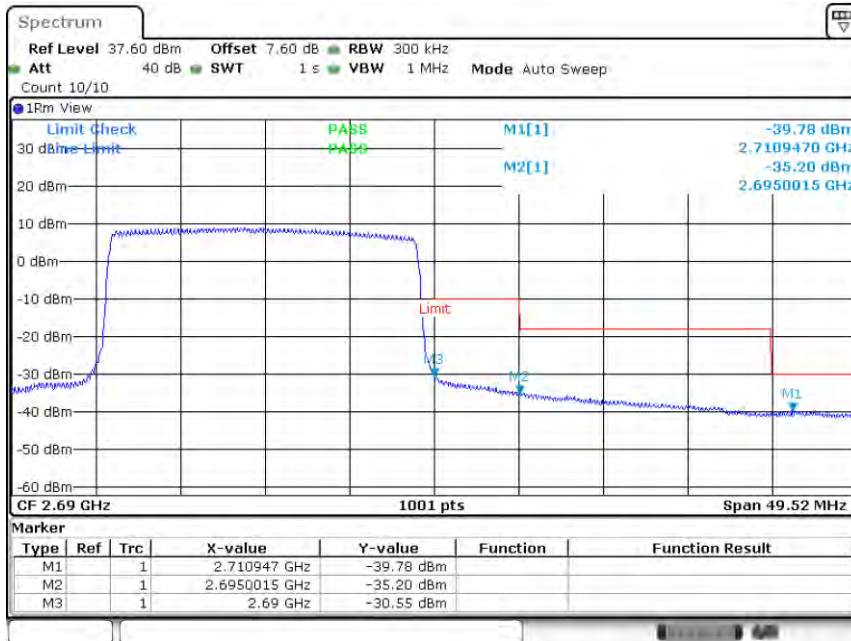


Date: 30.MAY.2021 05:41:42



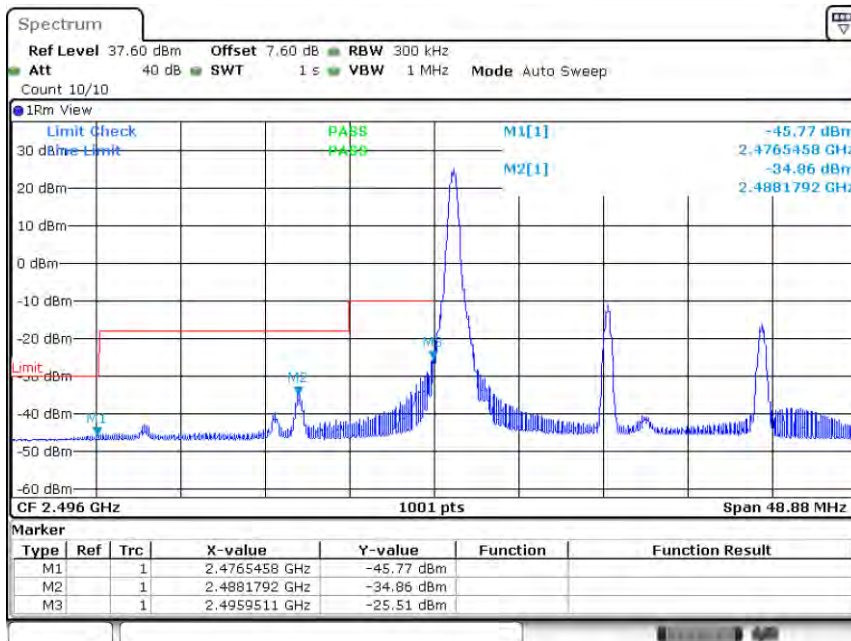
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Band41-20MHz-QPSK-41490-100RB#0



Date: 30.MAY.2021 05:43:15

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

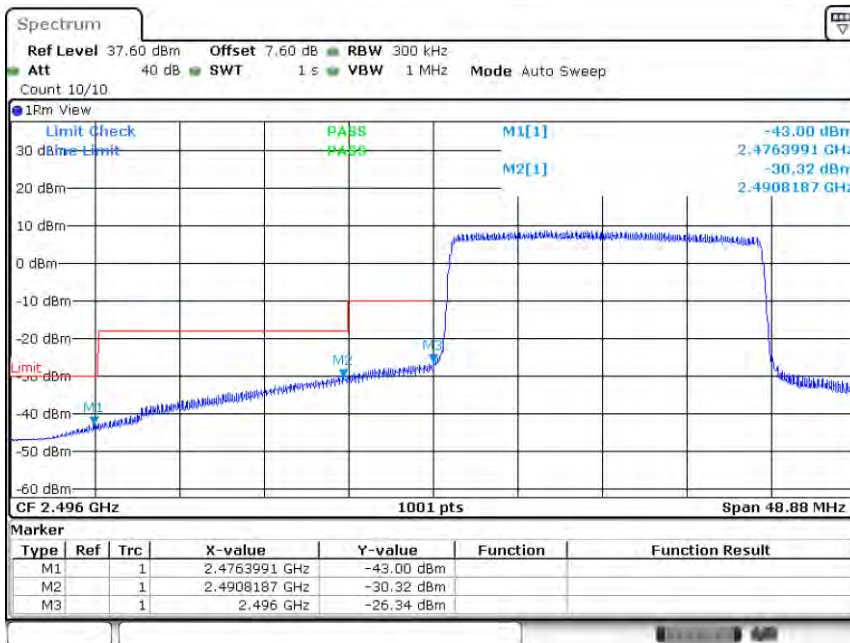


Date: 30.MAY.2021 05:41:16



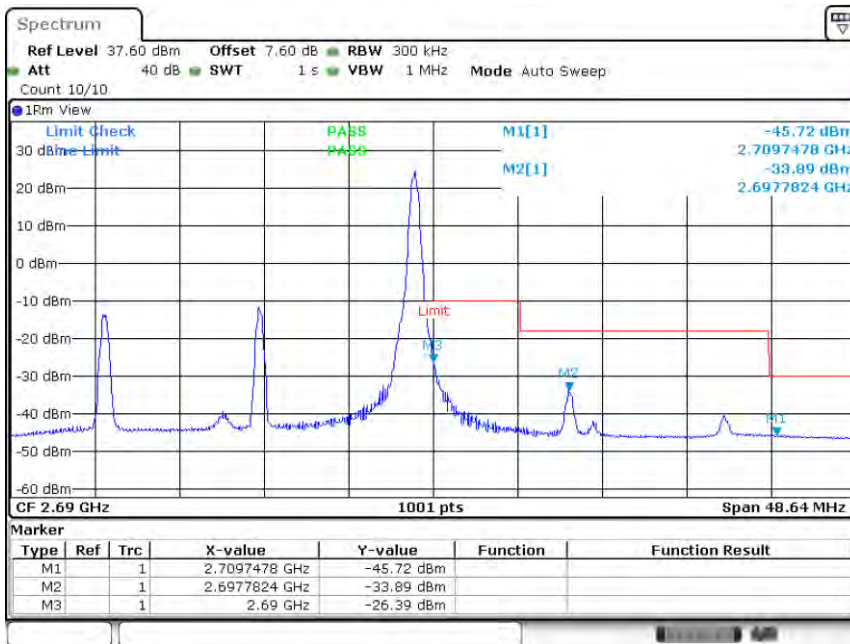
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Band41-20MHz-16QAM-39750-100RB#0



Date: 30.MAY.2021 05:42:53

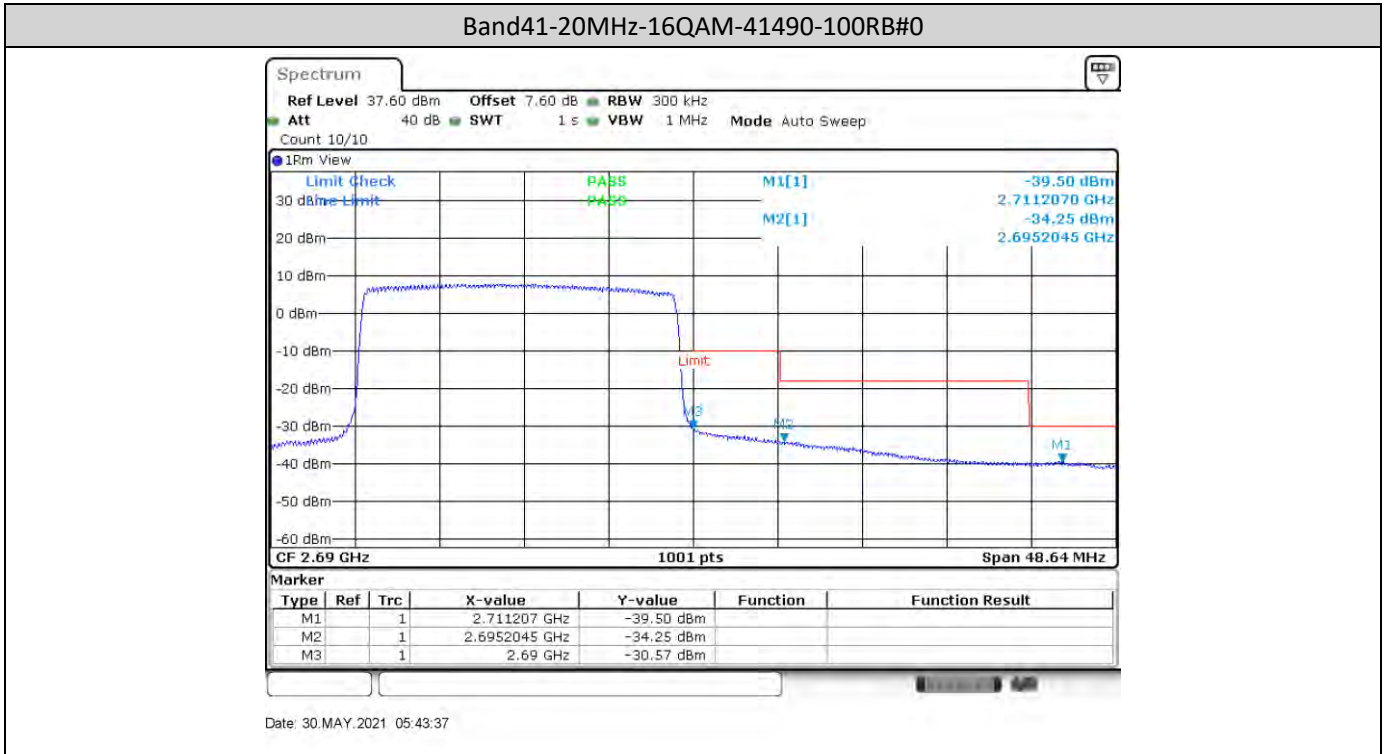
Band41-20MHz-16QAM-41490-1RB#99



Date: 30.MAY.2021 05:42:04



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Remark: The limit of more than 1MHz offset the channel edge is corrected by the formula:
 $X = \text{Limit} + 10 \log(\text{RBW}/1000\text{kHz})$



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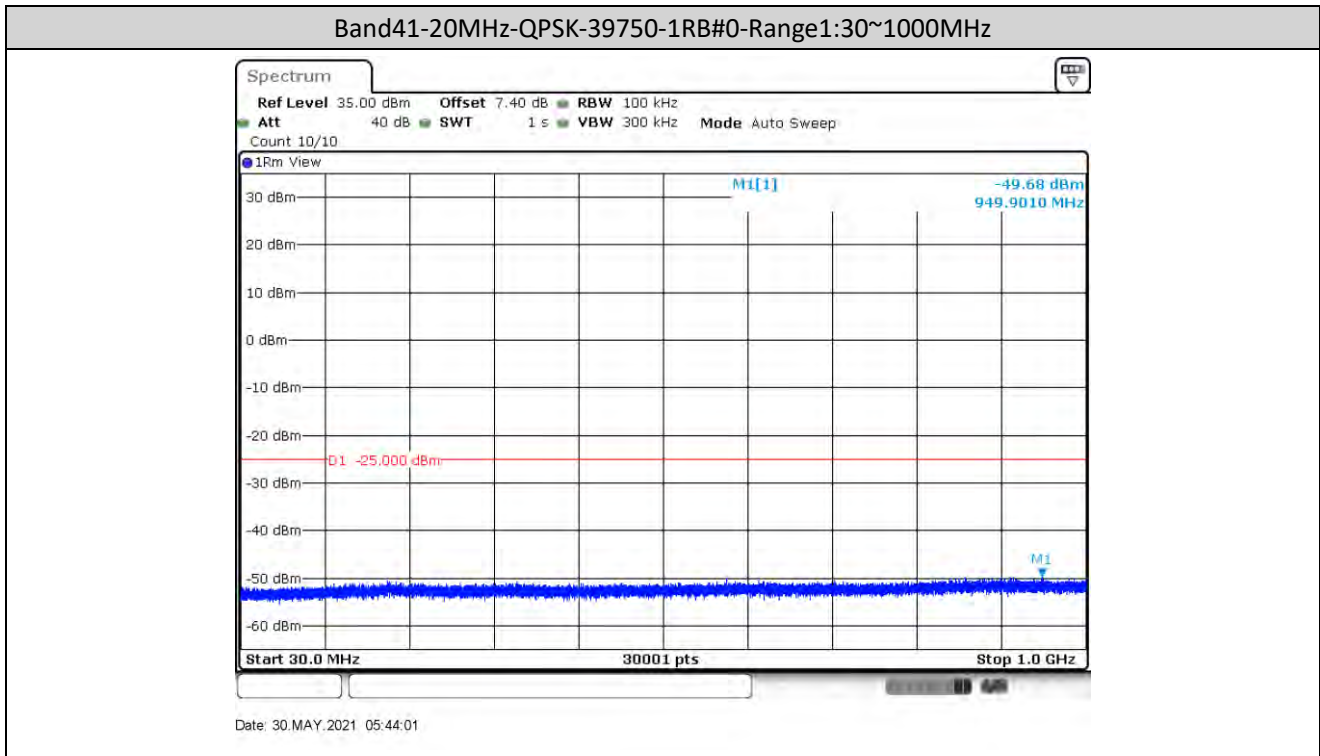
6. Spurious Emission at Antenna Terminal

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

Remark2: 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.

Remark3: 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 had been displayed.

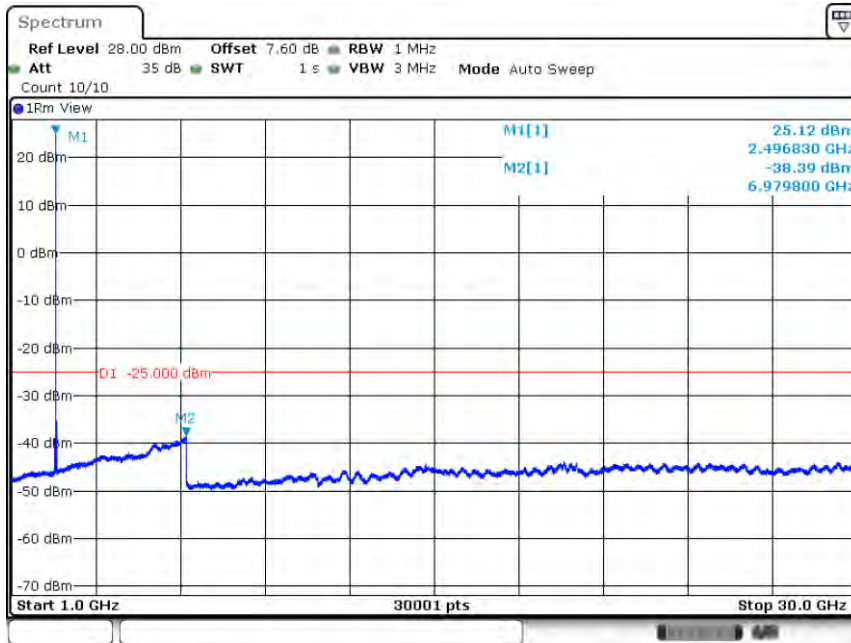
6.1. Test Plots



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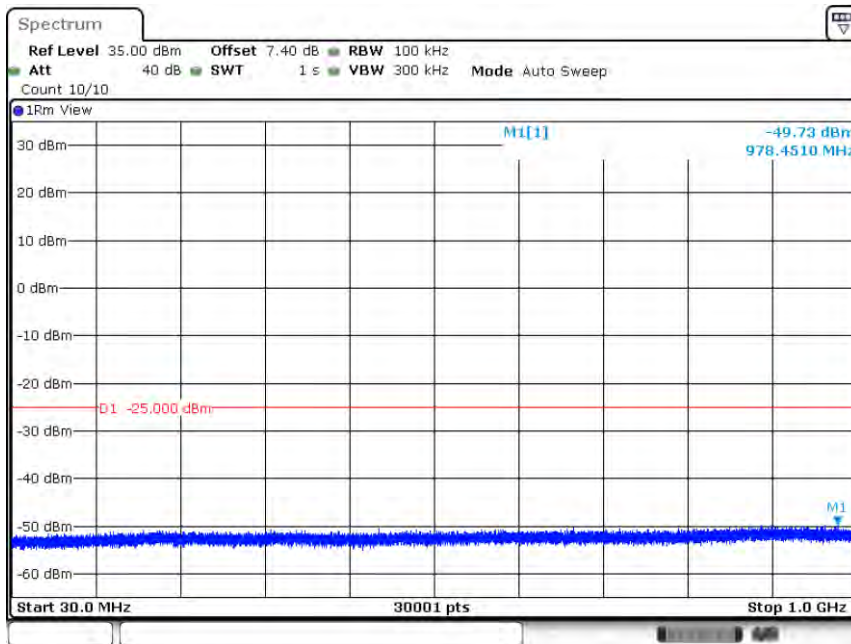
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Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz



Date: 30.MAY.2021 05:44:17

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

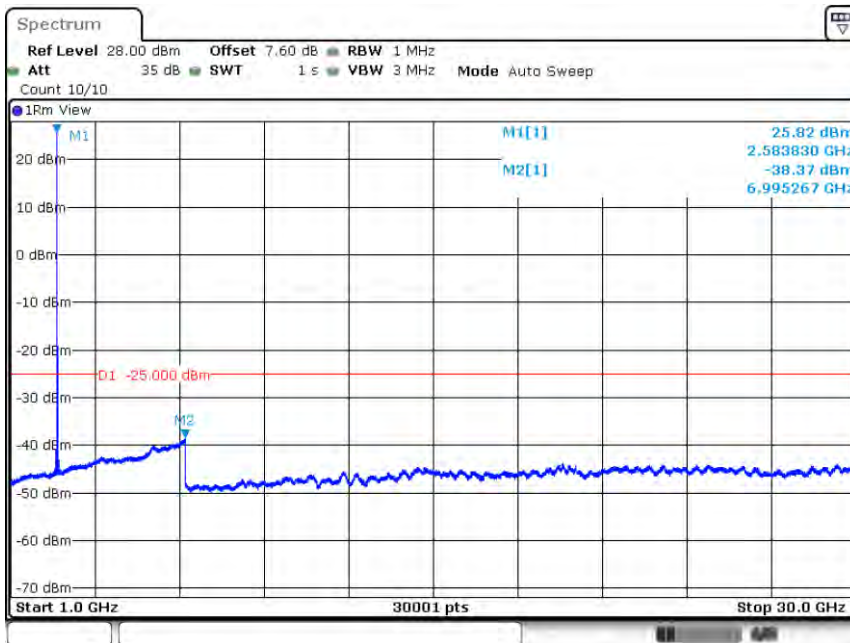


Date: 30.MAY.2021 05:45:15



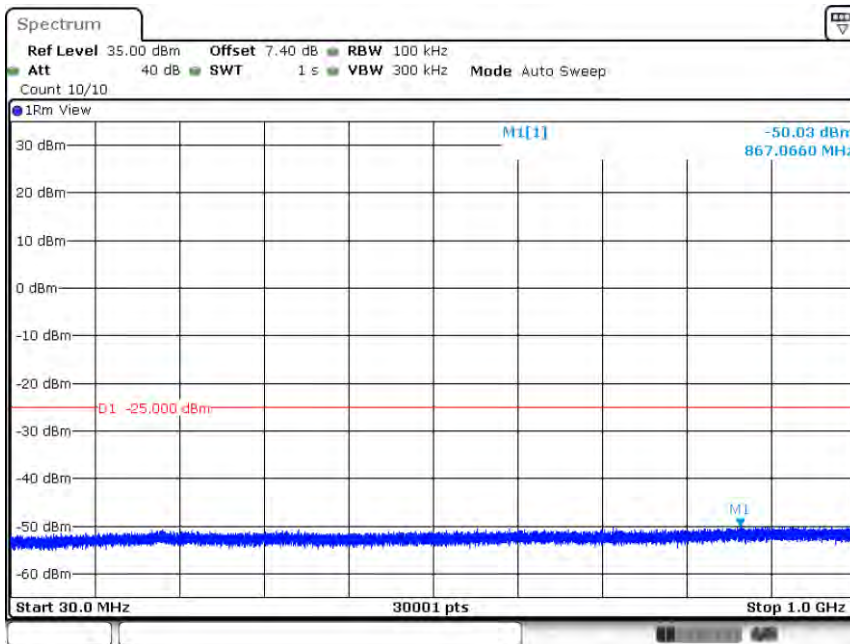
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Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz



Date: 30.MAY.2021 05:45:31

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



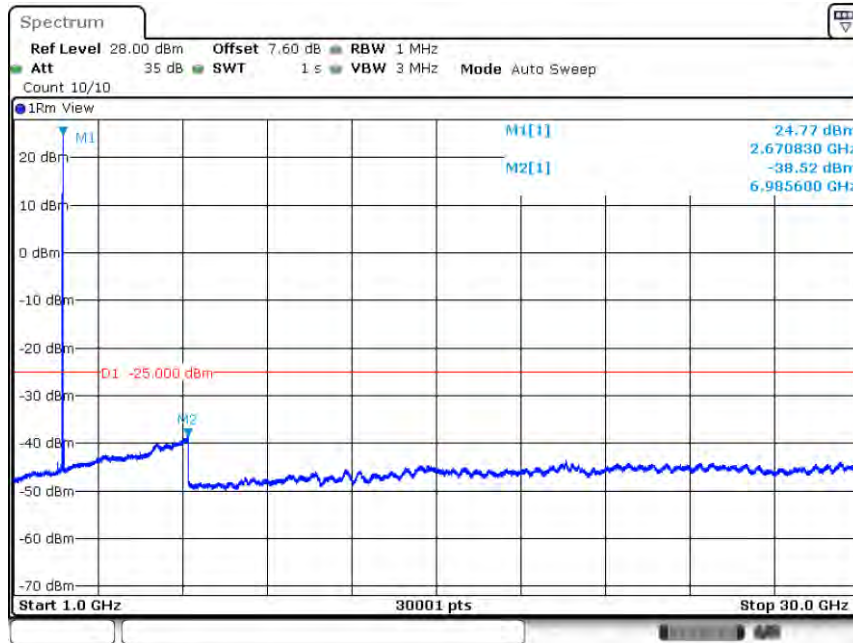
Date: 30.MAY.2021 05:46:28



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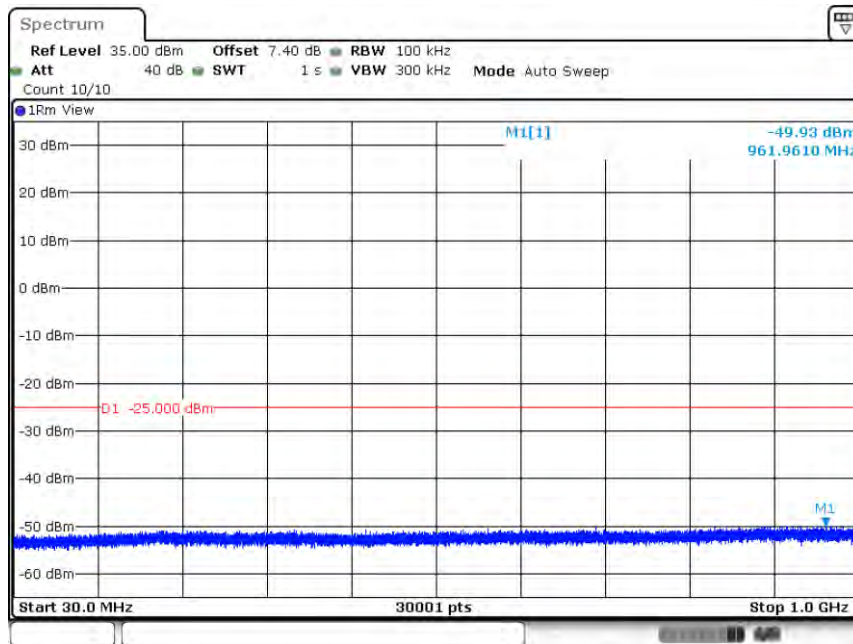
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Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz



Date: 30.MAY.2021 05:46:44

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



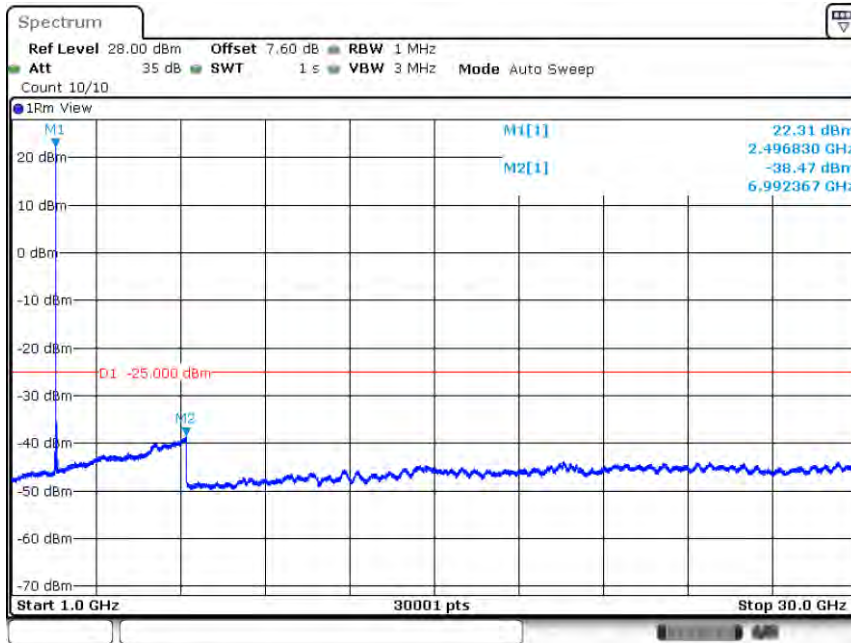
Date: 30.MAY.2021 05:44:37



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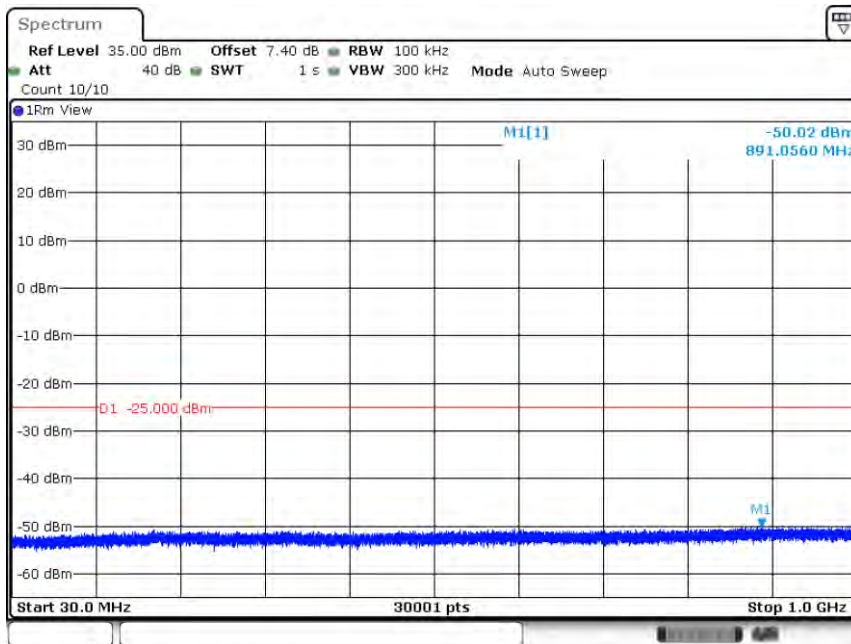
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Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz



Date: 30.MAY.2021 05:44:56

Band41-20MHz-16QAM-40620-1RB#0-Range1:30~1000MHz

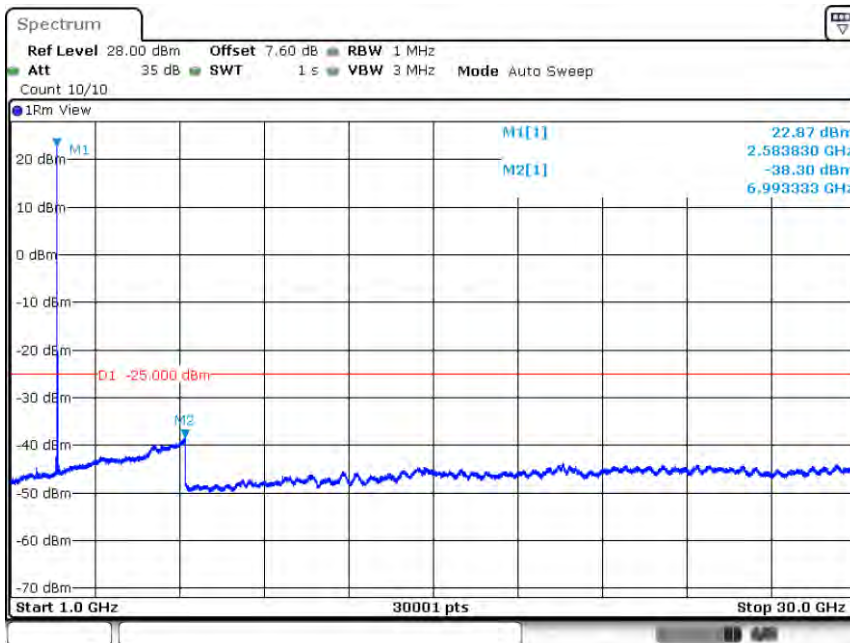


Date: 30.MAY.2021 05:45:50



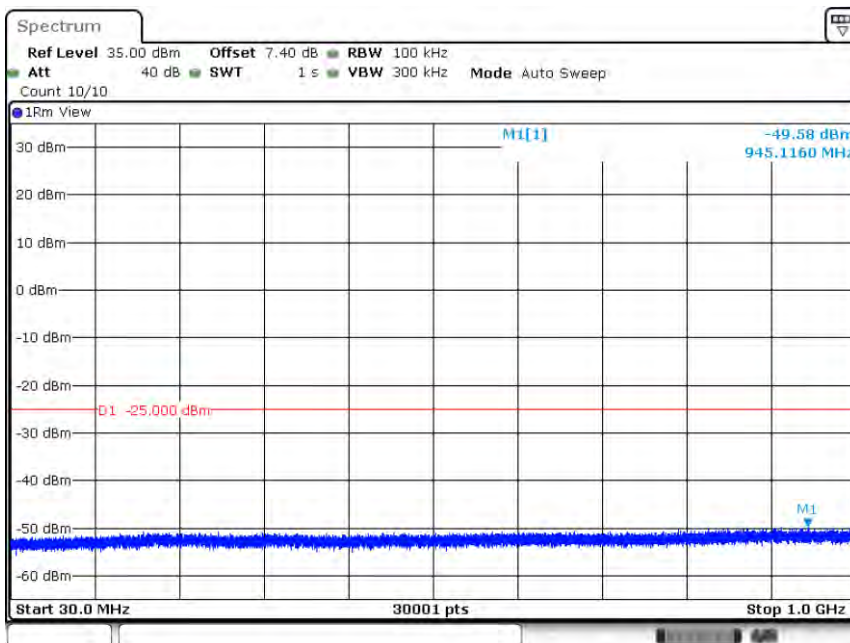
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Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz



Date: 30.MAY.2021 05:46:06

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



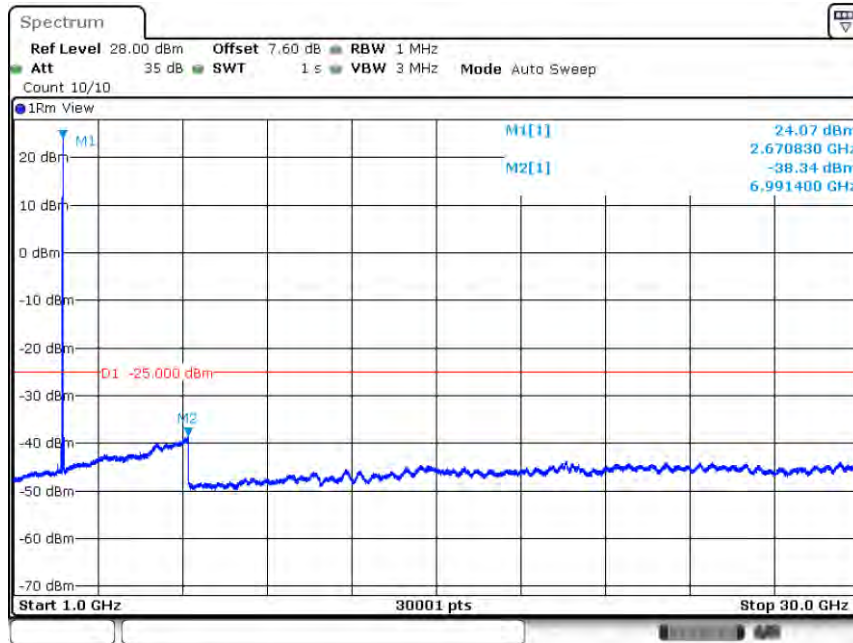
Date: 30.MAY.2021 05:47:05



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



Date 30.MAY.2021 05:47:24



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7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band41

7.1.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1261.7827	20.45	-49.93	-25.00	24.93	Horizontal
2	2140.6426	20.46	-47.66	-25.00	22.66	Horizontal
3	2985.2482	21.19	-43.55	-25.00	18.55	Horizontal
4	5688.1344	49.44	-57.50	-25.00	32.50	Horizontal
5	7504.7252	58.37	-43.74	-25.00	18.74	Horizontal
6	17989.499	47.62	-46.04	-25.00	21.04	Horizontal



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7.2. Test Band LTE_Band41

7.2.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1369.7962	20.35	-49.83	-25.00	24.83	Vertical
2	2194.1493	20.82	-47.18	-25.00	22.18	Vertical
3	2960.4951	20.86	-43.89	-25.00	18.89	Vertical
4	4782.8391	51.17	-59.46	-25.00	34.46	Vertical
5	7504.7252	65.14	-36.97	-25.00	11.97	Vertical
6	17912.995	47.83	-45.12	-25.00	20.12	Vertical



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7.3. Test Band LTE_Band41

7.3.1. Test Channel = Middle

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1080.5101	20.45	-49.67	-25.00	24.67	Horizontal
2	2227.1534	20.53	-47.11	-25.00	22.11	Horizontal
3	2998.9999	21.19	-43.29	-25.00	18.29	Horizontal
4	5046.1023	51.00	-58.94	-25.00	33.94	Horizontal
5	7765.7383	51.67	-50.47	-25.00	25.47	Horizontal
6	17915.245	47.08	-45.87	-25.00	20.87	Horizontal



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7.4. Test Band LTE_Band41

7.4.1. Test Channel = Middle

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1242.2803	20.76	-49.71	-25.00	24.71	Vertical
2	2025.8782	20.73	-48.08	-25.00	23.08	Vertical
3	2998.2498	20.98	-43.53	-25.00	18.53	Vertical
4	4830.0915	50.81	-59.73	-25.00	34.73	Vertical
5	7765.7383	53.51	-48.63	-25.00	23.63	Vertical
6	17993.249	48.85	-44.89	-25.00	19.89	Vertical



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7.5. Test Band LTE_Band41

7.5.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1260.7826	20.43	-49.91	-25.00	24.91	Horizontal
2	2496.9371	25.62	-40.99	-25.00	15.99	Horizontal
3	2996.4996	20.74	-43.82	-25.00	18.82	Horizontal
4	4162.5581	50.67	-62.13	-25.00	37.13	Horizontal
5	5351.3676	54.05	-54.60	-25.00	29.60	Horizontal
6	17930.246	47.08	-45.82	-25.00	20.82	Horizontal



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7.6. Test Band LTE_Band41

7.6.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1154.7693	20.82	-49.49	-25.00	24.49	Vertical
2	2496.6871	22.85	-43.76	-25.00	18.76	Vertical
3	2956.2445	20.93	-43.80	-25.00	18.80	Vertical
4	3615.7808	53.19	-61.80	-25.00	36.80	Vertical
5	5351.3676	51.06	-57.59	-25.00	32.59	Vertical
6	17977.498	47.93	-45.48	-25.00	20.48	Vertical

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.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-0.20	-0.000080	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	-0.20	-0.000080	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	5.70	0.002275	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.40	0.000154	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.40	0.000154	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	1.10	0.000424	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	6.00	0.002239	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	1.00	0.000373	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	3.20	0.001194	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-0.60	-0.000239	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	2.30	0.000918	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	2.80	0.001117	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	5.80	0.002237	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	1.30	0.000501	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	0.80	0.000309	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	8.50	0.003172	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	8.90	0.003321	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	8.30	0.003097	±2.5	PASS



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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	4.70	0.001875	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	6.60	0.002634	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	3.50	0.001397	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	0.40	0.000160	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-0.40	-0.000160	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-0.40	-0.000160	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	0.70	0.000279	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-0.40	-0.000160	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	2.50	0.000998	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	4.90	0.001890	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	4.90	0.001890	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	5.60	0.002160	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	7.50	0.002892	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	0.60	0.000231	±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	0.80	0.000309	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	4.70	0.001813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-0.40	-0.000154	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	7.20	0.002687	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	2.80	0.001045	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	10.30	0.003843	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	7.20	0.002687	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	8.20	0.003060	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	3.10	0.001157	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	2.80	0.001045	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	8.20	0.003060	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	2.60	0.000970	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	6.50	0.002594	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	4.70	0.001875	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	4.80	0.001915	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	5.70	0.002275	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	0.80	0.000319	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-1.90	-0.000758	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	-0.60	-0.000239	±2.5	PASS



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Band41	20MHz	16QAM	39750	100RB#0	NV	40	3.70	0.001476	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	6.20	0.002474	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	4.90	0.001890	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	5.50	0.002121	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	-0.60	-0.000231	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	3.00	0.001157	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	4.10	0.001581	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-1.20	-0.000463	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	-1.10	-0.000424	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	5.50	0.002121	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	3.40	0.001311	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	4.30	0.001604	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	9.30	0.003470	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-10	4.20	0.001567	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	7.40	0.002761	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	5.20	0.001940	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	9.20	0.003433	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	3.60	0.001343	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	5.50	0.002052	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	9.40	0.003507	±2.5	PASS



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