



Appendix B

E-UTRA Band 41



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	25.29	28.01	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.38	28.10	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.32	28.04	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	24.33	27.05	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	24.34	27.06	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	24.43	27.15	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.41	27.13	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.68	27.40	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.45	27.17	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.54	27.26	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	23.86	26.58	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	23.66	26.38	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	23.69	26.41	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.65	26.37	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.90	27.62	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.80	27.52	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.68	27.40	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	24.17	26.89	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	23.94	26.66	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	23.79	26.51	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.84	26.56	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.88	26.60	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.07	26.79	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.95	26.67	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	23.25	25.97	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	23.25	25.97	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.48	26.20	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.63	26.35	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.20	25.92	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.43	26.15	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.52	26.24	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	22.69	25.41	33.00	PASS



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Band41	5MHz	16QAM	40620	12RB#6	22.61	25.33	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	22.63	25.35	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.67	25.39	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.82	26.54	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.73	26.45	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.63	26.35	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	22.81	25.53	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	22.76	25.48	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	22.80	25.52	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.91	25.63	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.37	28.09	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.36	28.08	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	25.28	28.00	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	24.40	27.12	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	24.47	27.19	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	24.34	27.06	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	24.37	27.09	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.64	27.36	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.56	27.28	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.59	27.31	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	23.79	26.51	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	23.56	26.28	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	23.67	26.39	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.77	26.49	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.07	27.79	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.18	27.90	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.91	27.63	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	24.17	26.89	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	24.08	26.80	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	23.97	26.69	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.98	26.70	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.27	26.99	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	24.07	26.79	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	24.08	26.80	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	23.38	26.10	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.46	26.18	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	23.33	26.05	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	23.39	26.11	33.00	PASS



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Band41	10MHz	16QAM	40620	1RB#0	23.29	26.01	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.28	26.00	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.33	26.05	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	22.88	25.60	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	22.66	25.38	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	22.67	25.39	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.89	25.61	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.84	26.56	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.76	26.48	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.64	26.36	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	22.98	25.70	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	22.99	25.71	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	22.96	25.68	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.98	25.70	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.20	27.92	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.37	28.09	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.57	28.29	33.00	PASS
Band41	15MHz	QPSK	39725	38RB#0	24.25	26.97	33.00	PASS
Band41	15MHz	QPSK	39725	38RB#18	24.35	27.07	33.00	PASS
Band41	15MHz	QPSK	39725	38RB#37	24.60	27.32	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.38	27.10	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.74	27.46	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.42	27.14	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.72	27.44	33.00	PASS
Band41	15MHz	QPSK	40620	38RB#0	23.76	26.48	33.00	PASS
Band41	15MHz	QPSK	40620	38RB#18	23.61	26.33	33.00	PASS
Band41	15MHz	QPSK	40620	38RB#37	23.74	26.46	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.70	26.42	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.86	27.58	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.90	27.62	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.90	27.62	33.00	PASS
Band41	15MHz	QPSK	41515	38RB#0	24.26	26.98	33.00	PASS
Band41	15MHz	QPSK	41515	38RB#18	23.97	26.69	33.00	PASS
Band41	15MHz	QPSK	41515	38RB#37	23.85	26.57	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.93	26.65	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.95	26.67	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.20	26.92	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.01	26.73	33.00	PASS



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Band41	15MHz	16QAM	39725	38RB#0	23.26	25.98	33.00	PASS
Band41	15MHz	16QAM	39725	38RB#18	23.50	26.22	33.00	PASS
Band41	15MHz	16QAM	39725	38RB#37	23.67	26.39	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.38	26.10	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.57	26.29	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.32	26.04	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.59	26.31	33.00	PASS
Band41	15MHz	16QAM	40620	38RB#0	22.79	25.51	33.00	PASS
Band41	15MHz	16QAM	40620	38RB#18	22.65	25.37	33.00	PASS
Band41	15MHz	16QAM	40620	38RB#37	22.81	25.53	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.81	25.53	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.80	26.52	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.50	26.22	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.46	26.18	33.00	PASS
Band41	15MHz	16QAM	41515	38RB#0	23.02	25.74	33.00	PASS
Band41	15MHz	16QAM	41515	38RB#18	22.82	25.54	33.00	PASS
Band41	15MHz	16QAM	41515	38RB#37	22.80	25.52	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.93	25.65	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.41	28.13	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.54	28.26	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.59	28.31	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	24.39	27.11	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	24.50	27.22	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	24.45	27.17	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.54	27.26	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.67	27.39	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.74	27.46	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.82	27.54	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	23.99	26.71	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	23.78	26.50	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.77	26.49	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.73	26.45	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.96	27.68	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.97	27.69	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.67	27.39	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	24.21	26.93	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	24.15	26.87	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.95	26.67	33.00	PASS



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Band41	20MHz	QPSK	41490	100RB#0	23.99	26.71	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.21	26.93	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.51	27.23	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.47	27.19	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	23.50	26.22	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	23.53	26.25	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	23.59	26.31	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.50	26.22	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.63	26.35	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.45	26.17	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.64	26.36	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	22.84	25.56	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	22.81	25.53	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	22.81	25.53	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.79	25.51	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.68	26.40	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.88	26.60	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.48	26.20	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	23.01	25.73	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	22.98	25.70	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	22.97	25.69	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	23.00	25.72	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



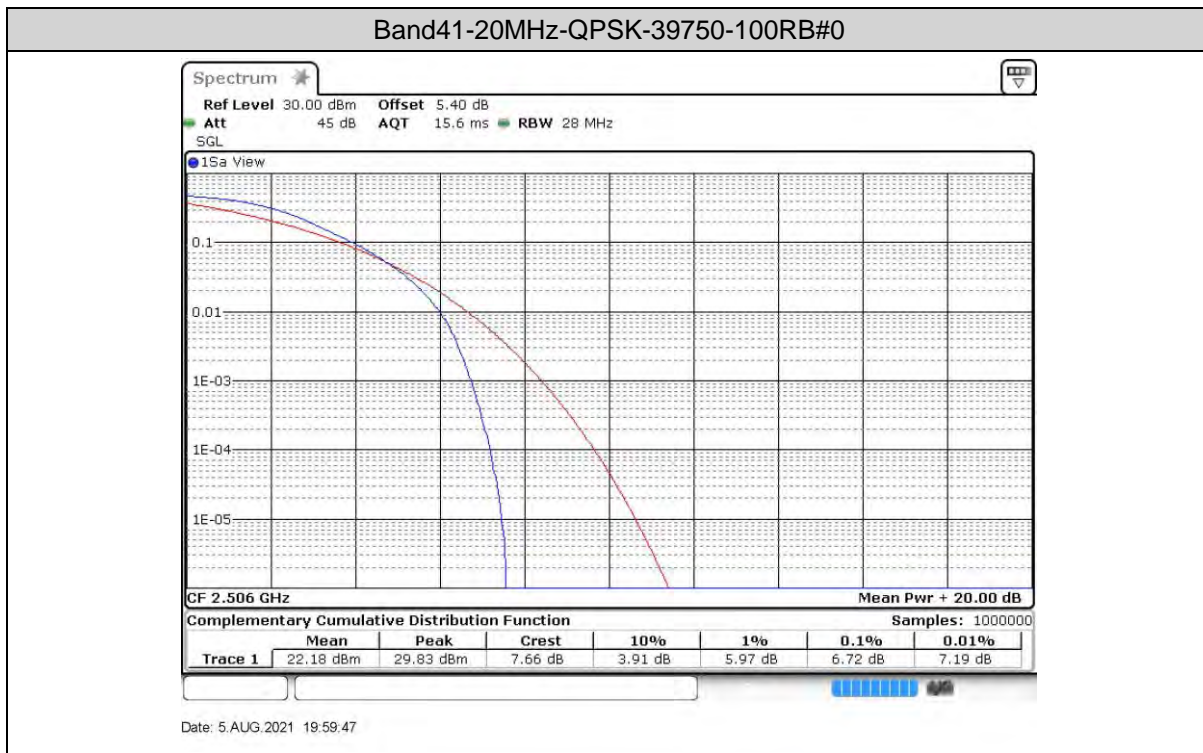
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	6.72	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	6.72	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.58	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.91	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	7.91	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.45	13	PASS

2.2. Test Plots



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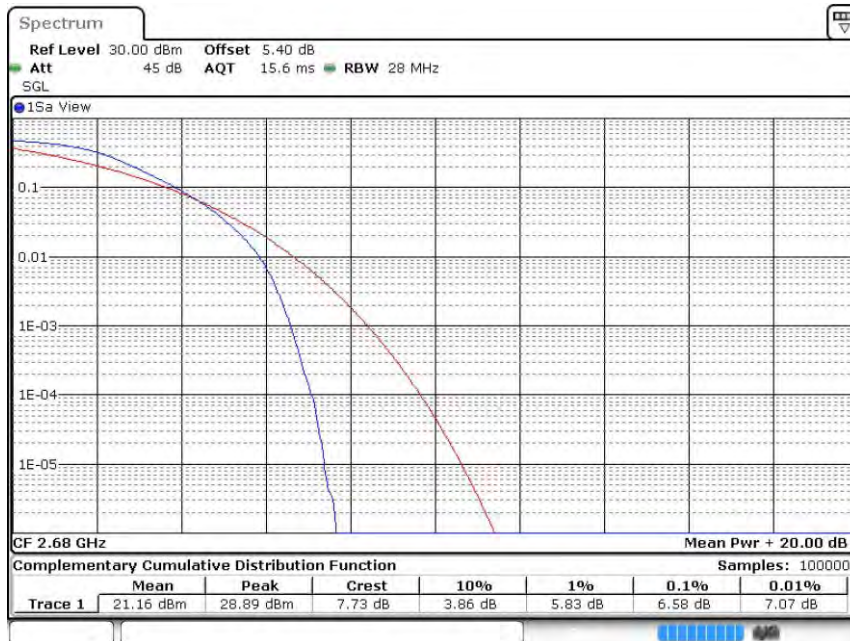
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Band41-20MHz-QPSK-40620-100RB#0



Date: 5.AUG.2021 20:00:17

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

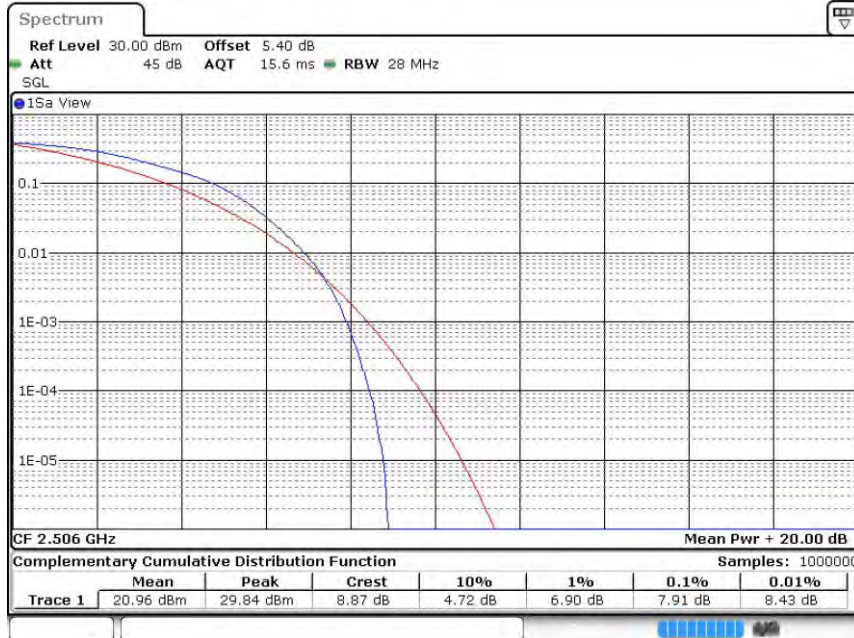


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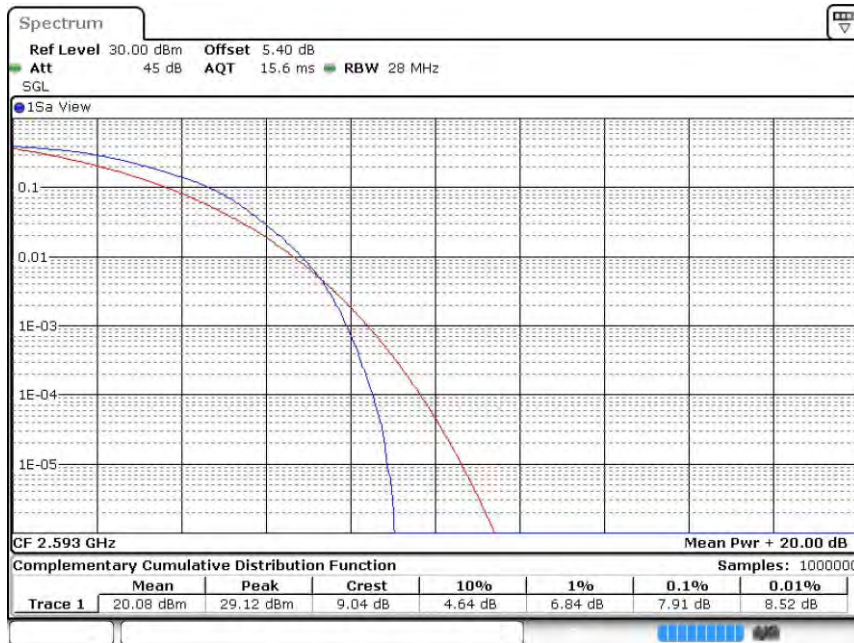
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Band41-20MHz-16QAM-39750-100RB#0



Date: 5.AUG.2021 20:00:02

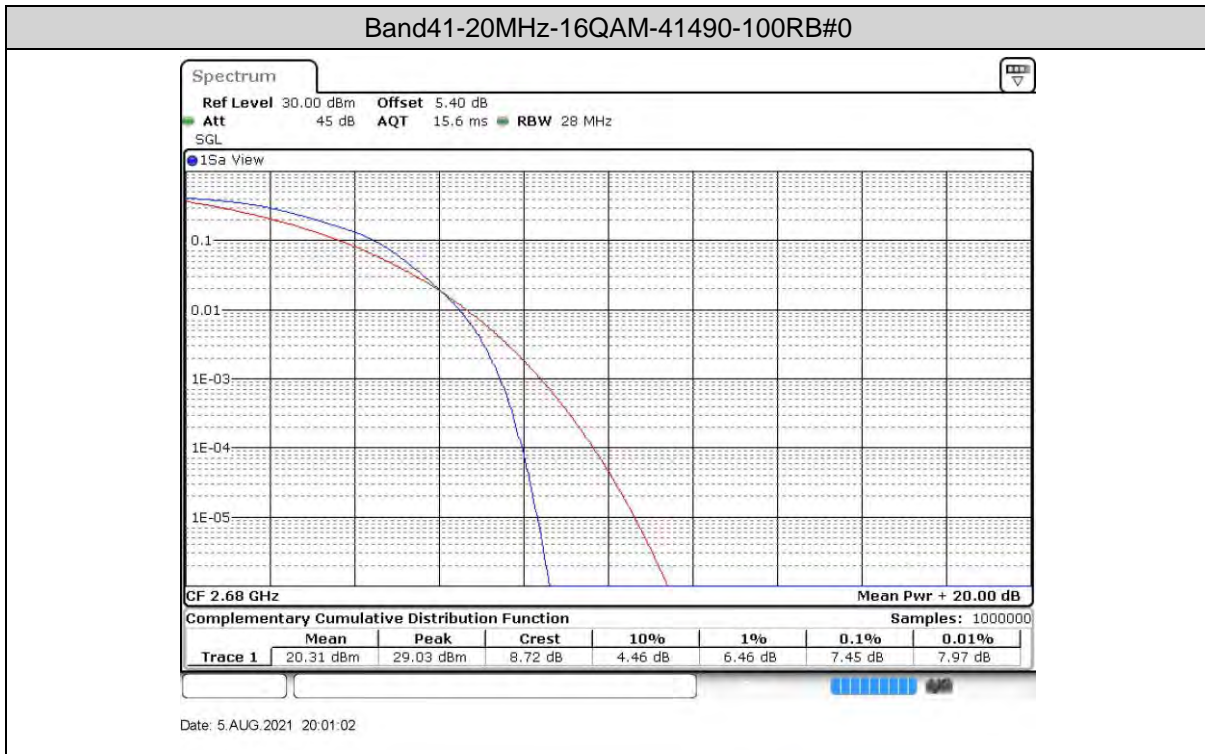
Band41-20MHz-16QAM-40620-100RB#0



Date: 5.AUG.2021 20:00:32



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



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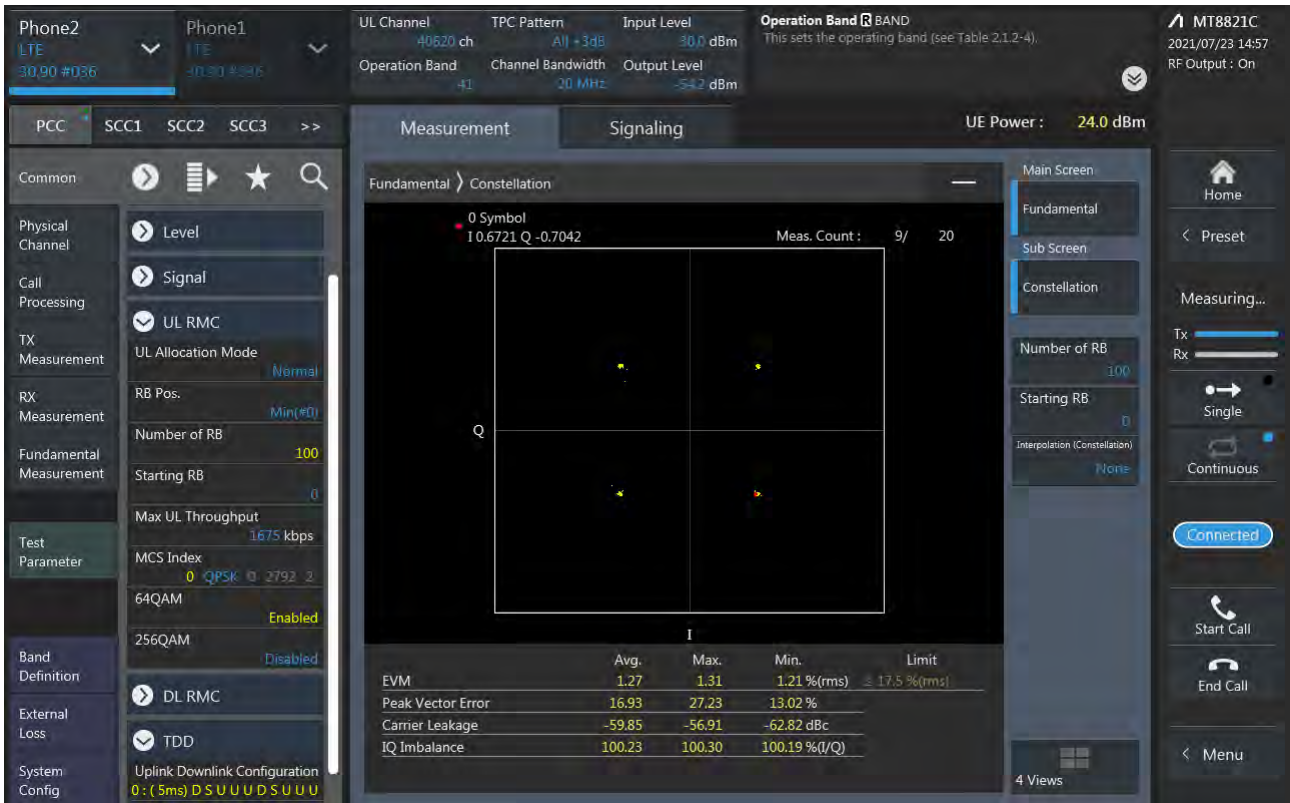
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

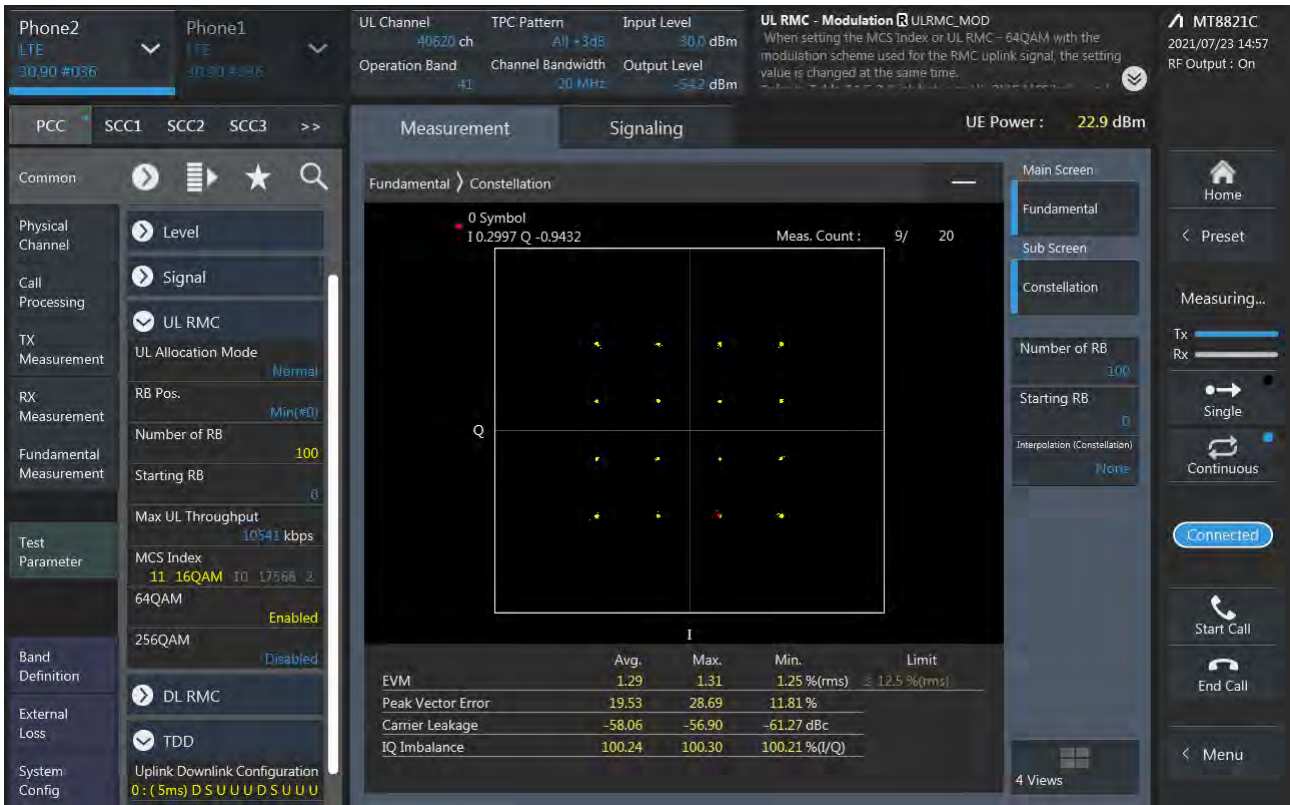
3.1.1. Test Channel = MCH





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	5.110	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.486	4.810	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	5.040	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.476	4.930	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.466	4.940	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.466	4.970	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.931	10.080	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.931	9.740	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.931	9.740	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.900	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.700	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.720	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.516	16.020	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.487	15.360	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.487	15.060	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.487	16.200	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.487	16.470	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.487	16.350	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.902	20.120	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.840	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.942	19.960	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.902	19.800	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.902	19.520	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.440	PASS

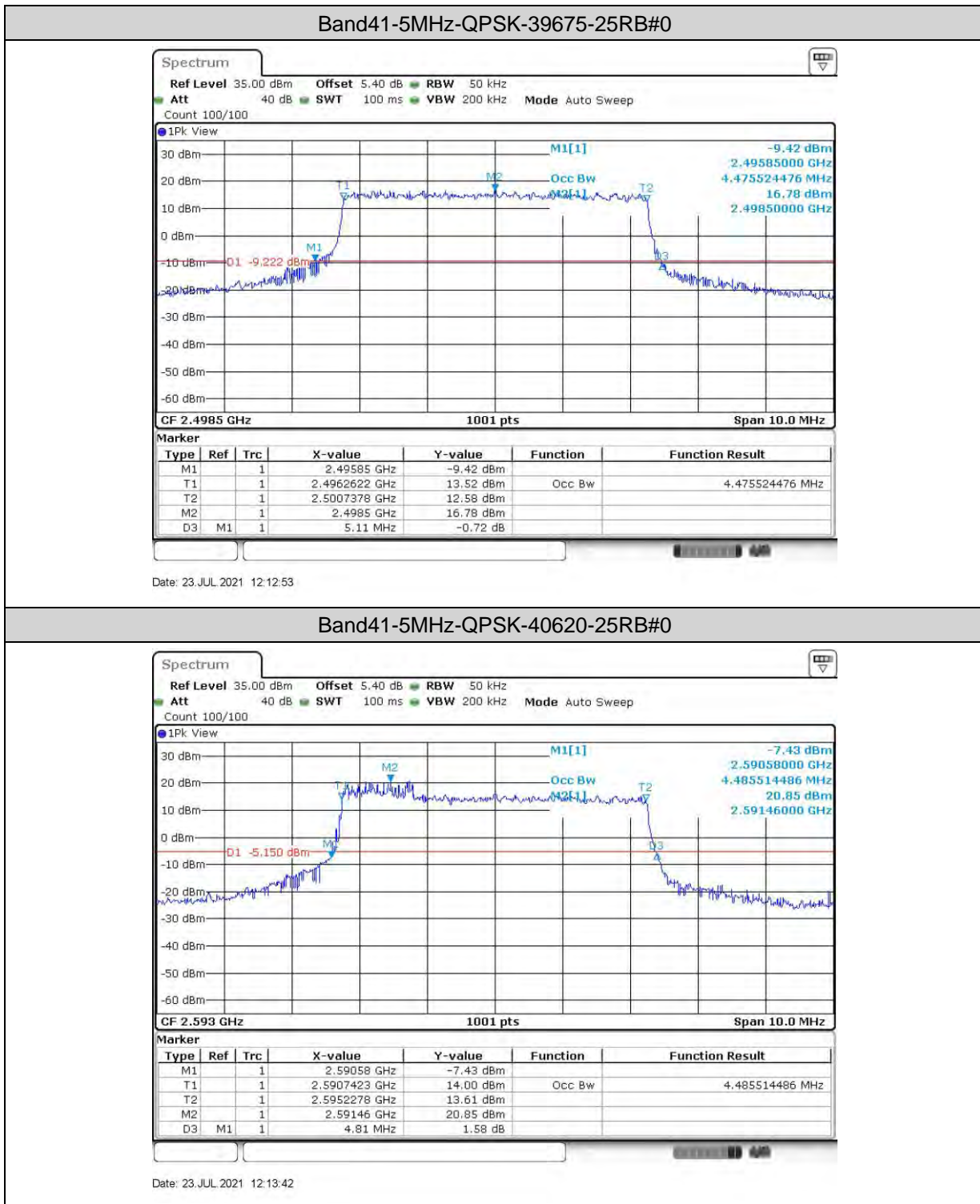


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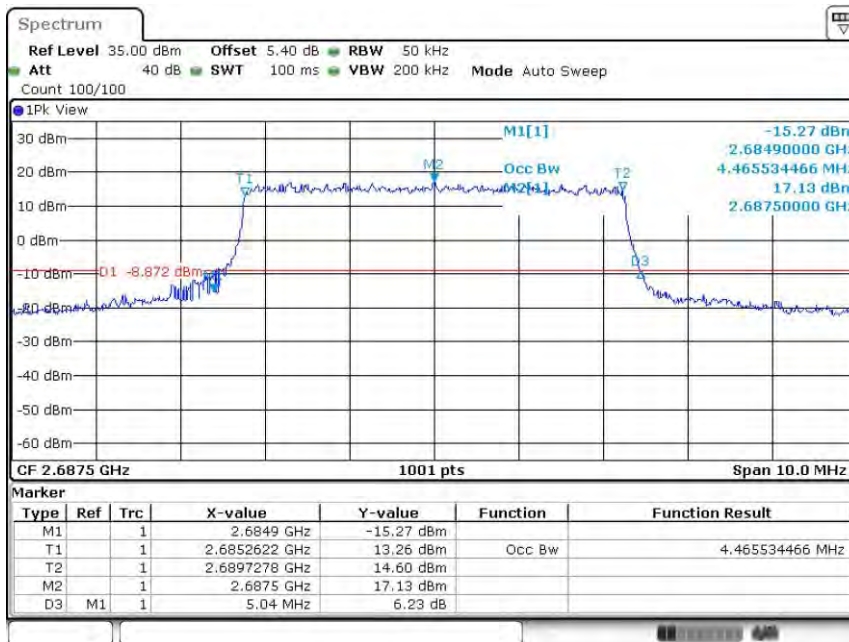
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4.2. Test Plots



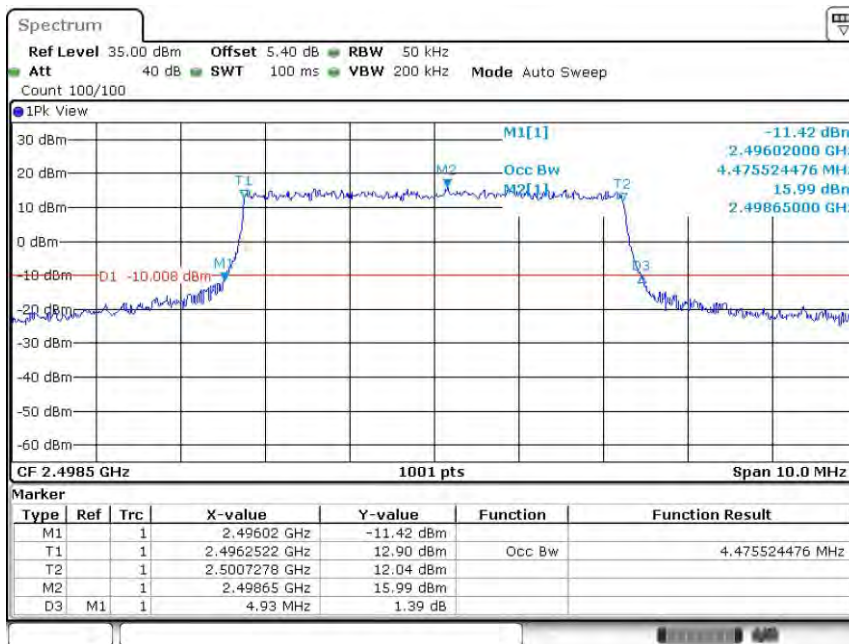
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Band41-5MHz-QPSK-41565-25RB#0



Date: 23.JUL.2021 12:14:32

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

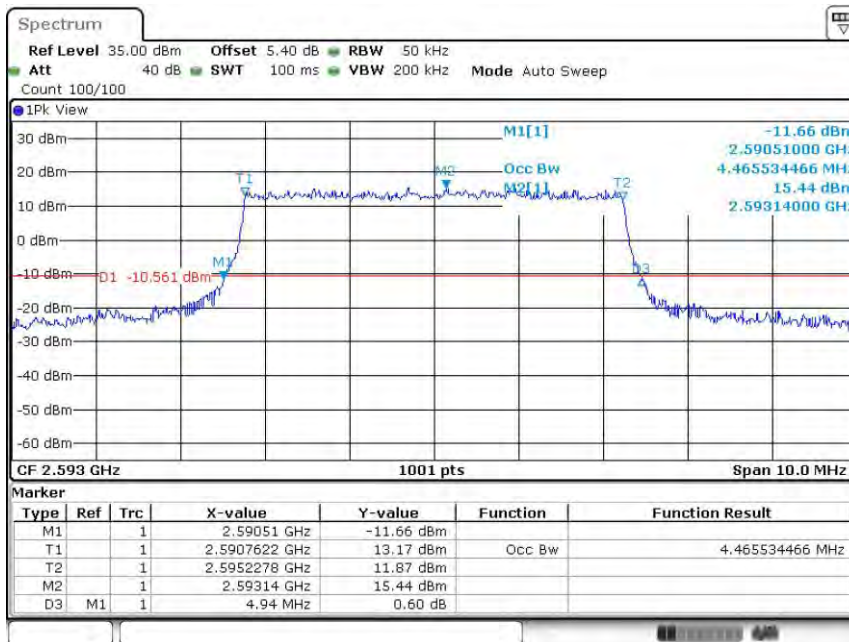


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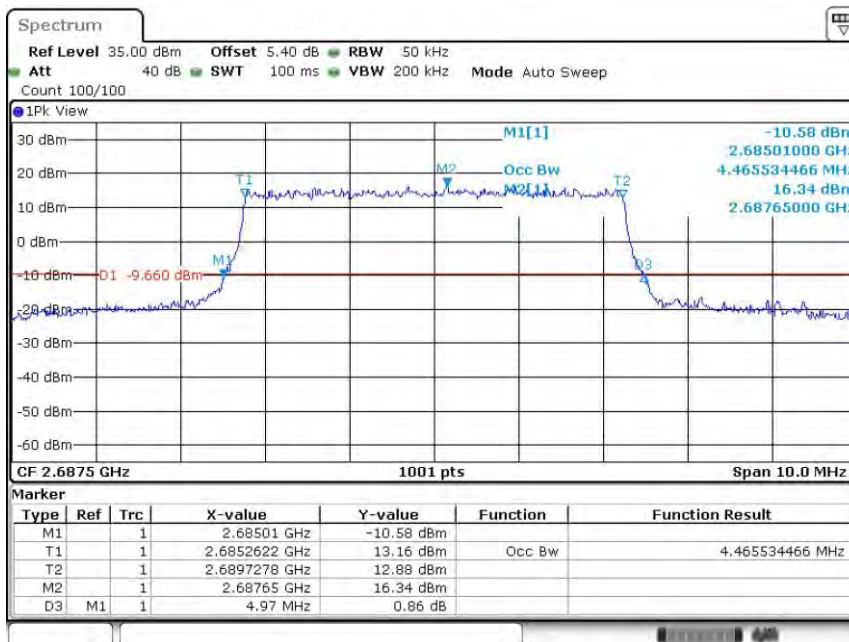
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Band41-5MHz-16QAM-40620-25RB#0



Date: 23.JUL.2021 12:14:07

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

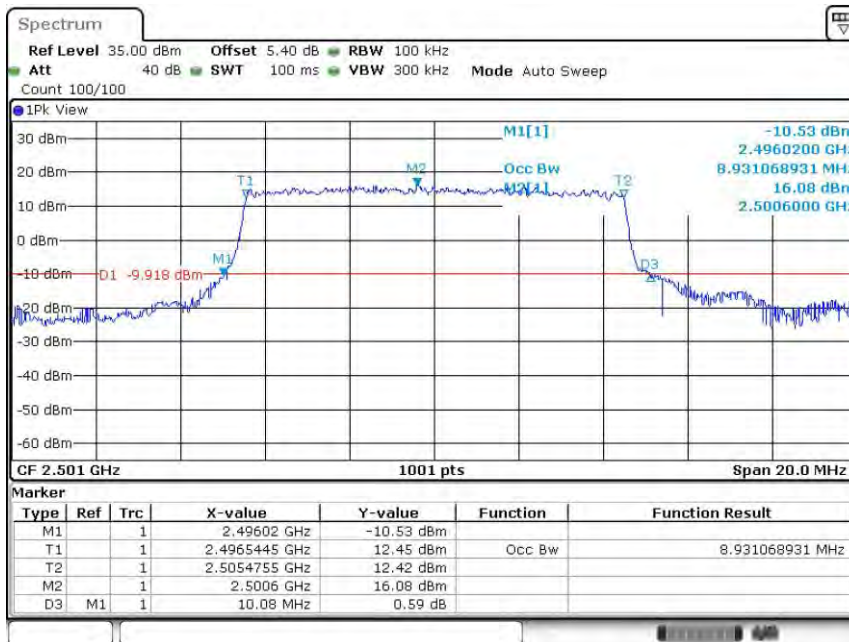


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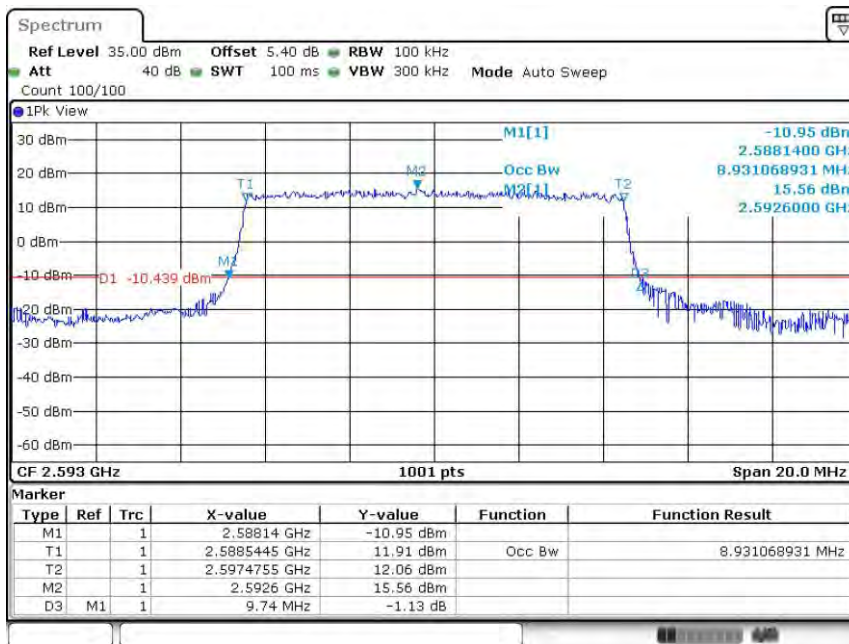
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Band41-10MHz-QPSK-39700-50RB#0



Date: 5.AUG.2021 19:29:50

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

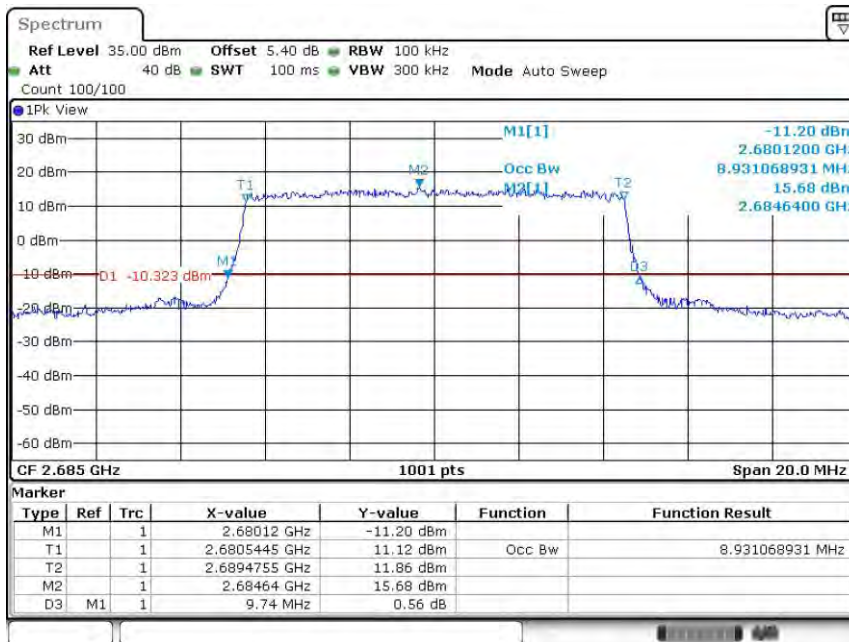


Date: 5.AUG.2021 19:30:58



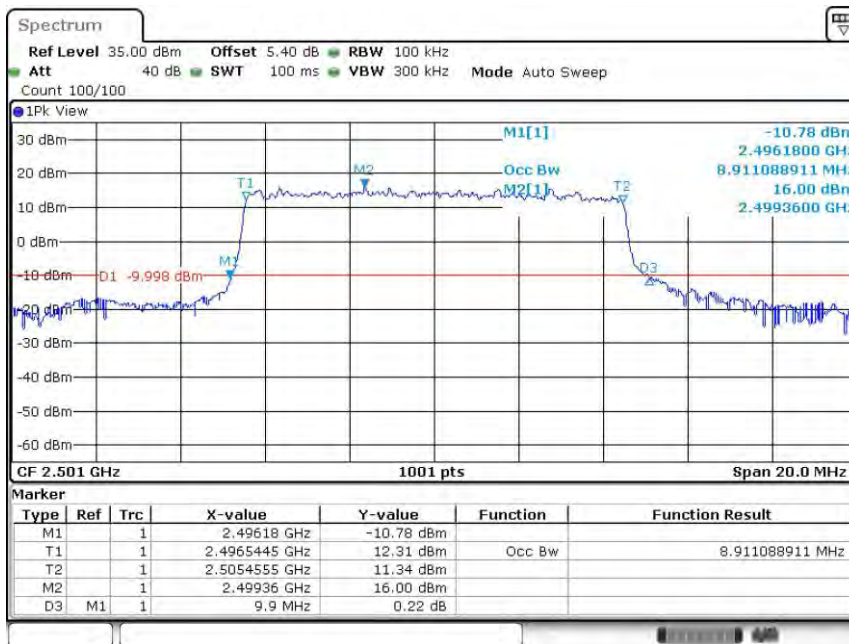
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Band41-10MHz-QPSK-41540-50RB#0



Date: 5.AUG.2021 19:32:00

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

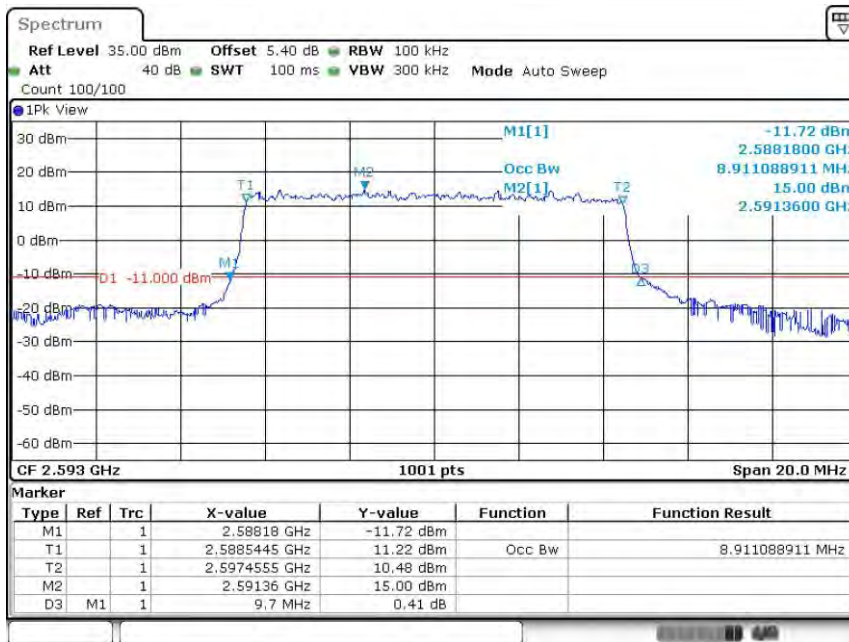


Date: 5.AUG.2021 19:30:35



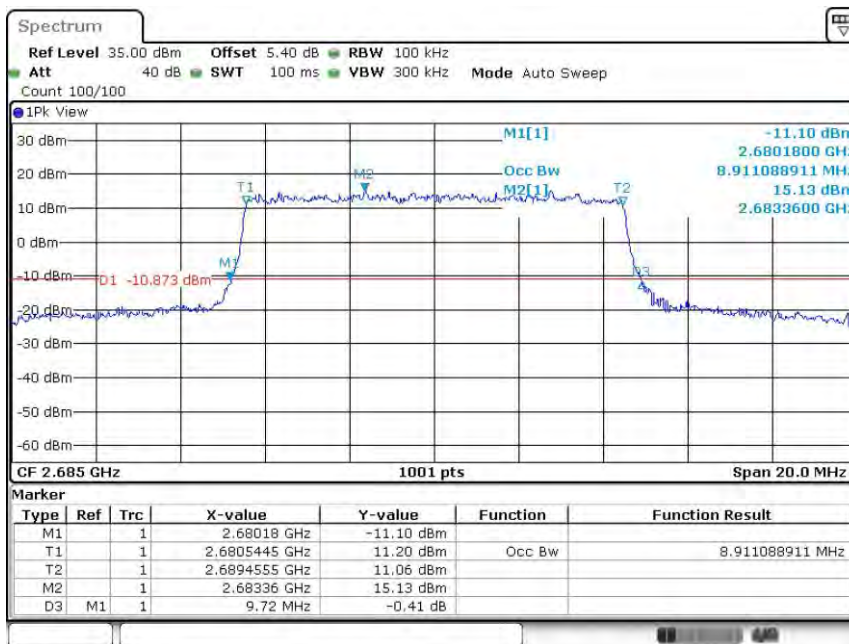
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Band41-10MHz-16QAM-40620-50RB#0



Date: 5.AUG.2021 19:31:36

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

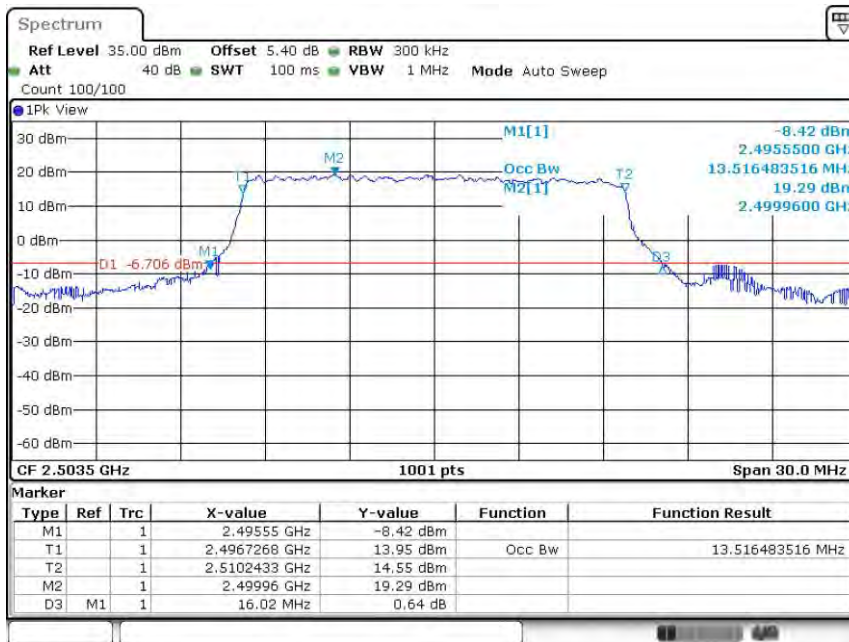


Date: 5.AUG.2021 19:32:23



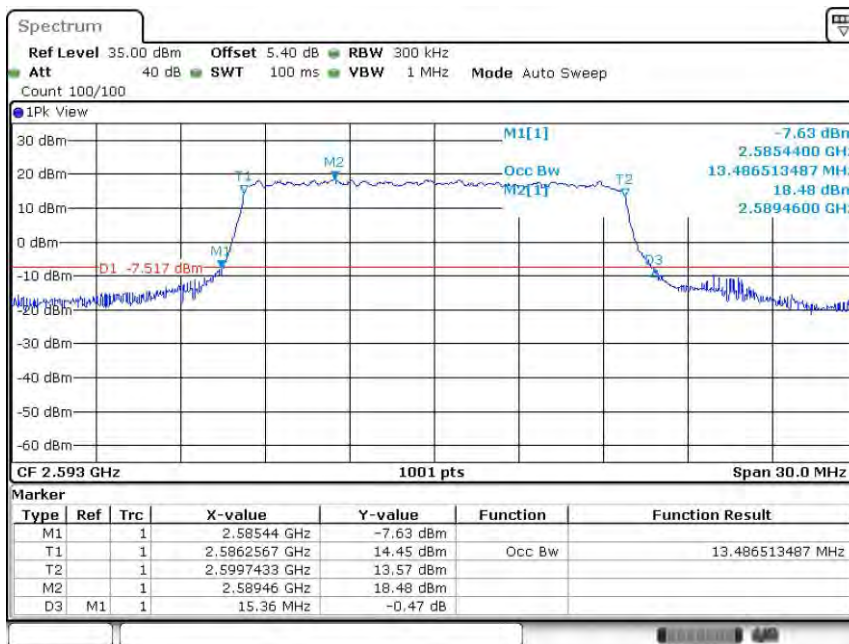
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Band41-15MHz-QPSK-39725-75RB#0



Date: 5.AUG.2021 19:33:34

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

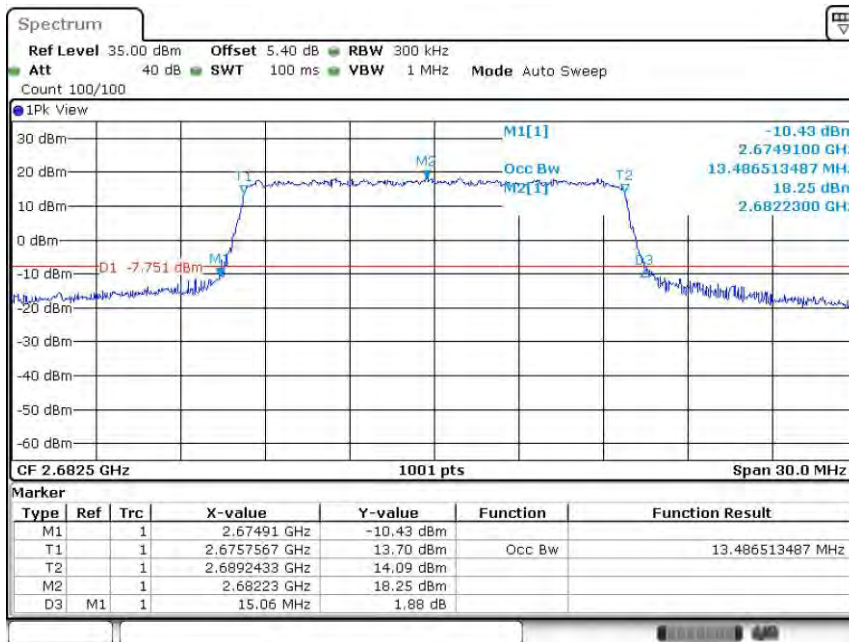


Date: 5.AUG.2021 19:35:05



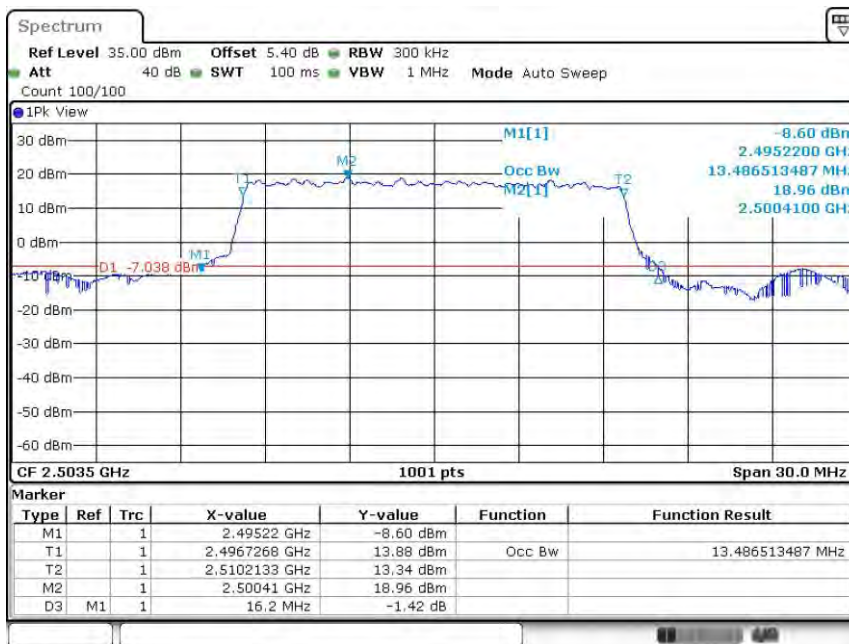
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Band41-15MHz-QPSK-41515-75RB#0



Date: 5.AUG.2021 19:36:24

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

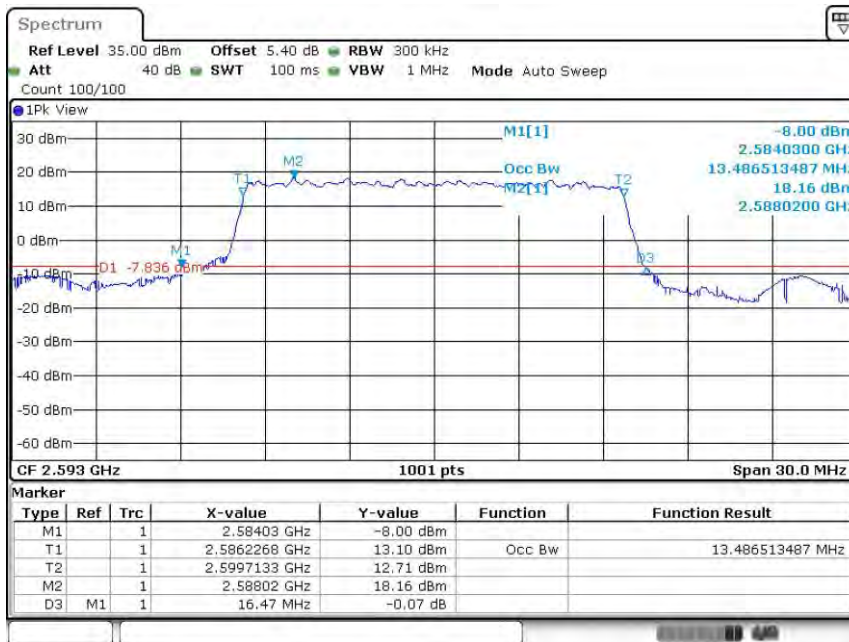


Date: 5.AUG.2021 19:34:25



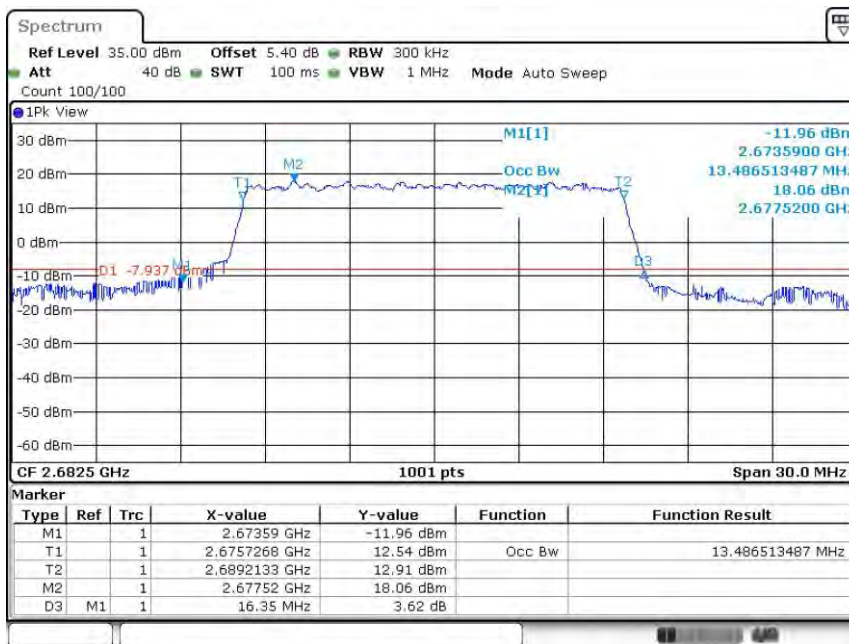
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Band41-15MHz-16QAM-40620-75RB#0



Date: 5.AUG.2021 19:36:00

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

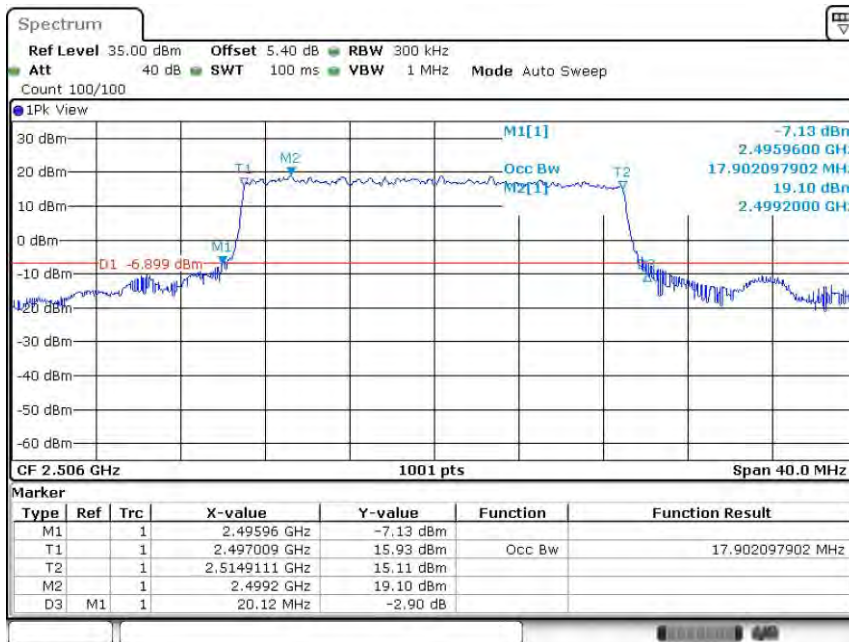


Date: 5.AUG.2021 19:37:00



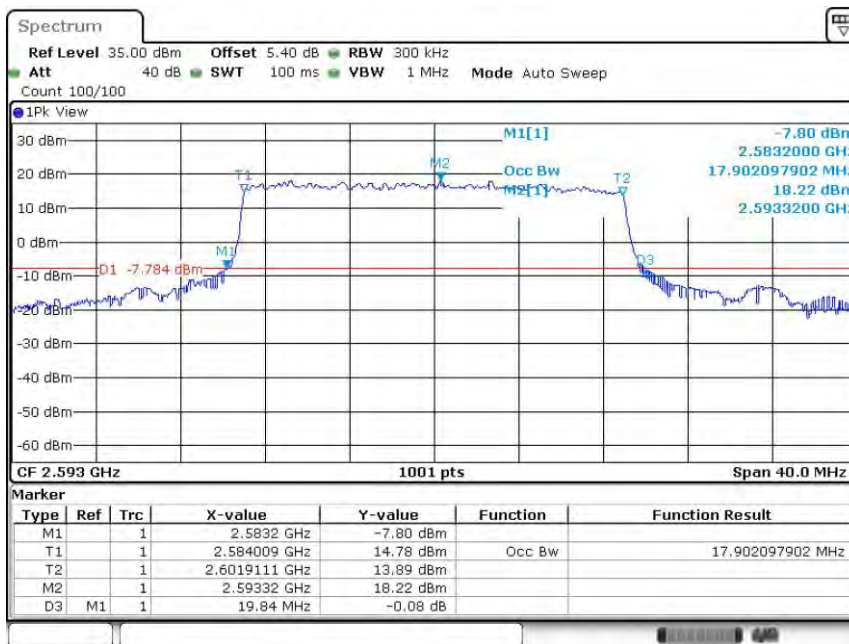
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Band41-20MHz-QPSK-39750-100RB#0



Date: 5.AUG.2021 19:38:01

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

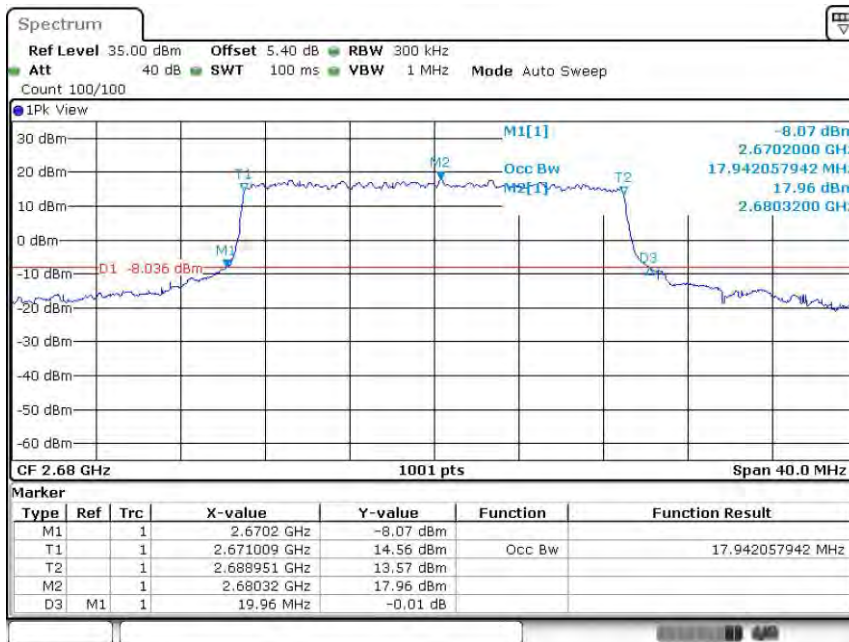


Date: 5.AUG.2021 19:39:11



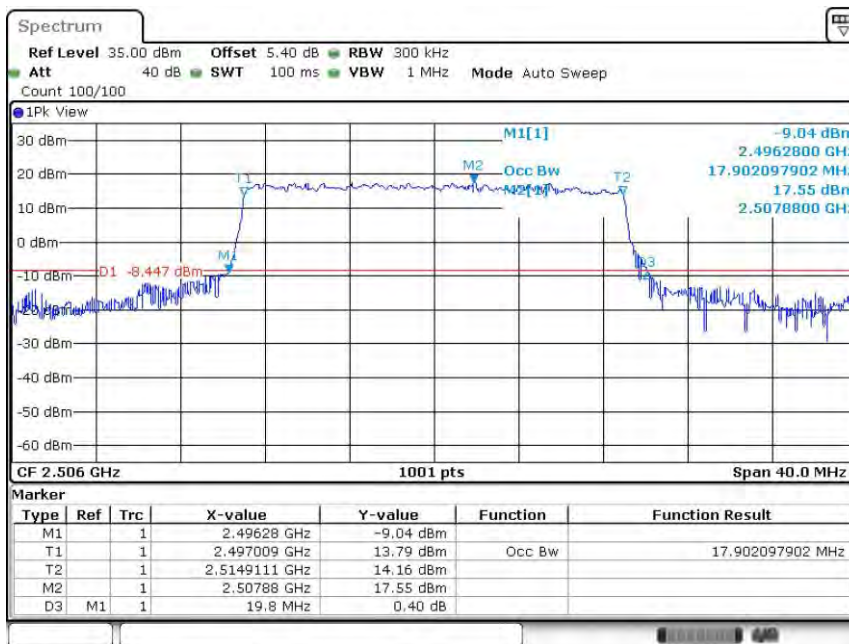
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Band41-20MHz-QPSK-41490-100RB#0



Date: 5.AUG.2021 19:42:16

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

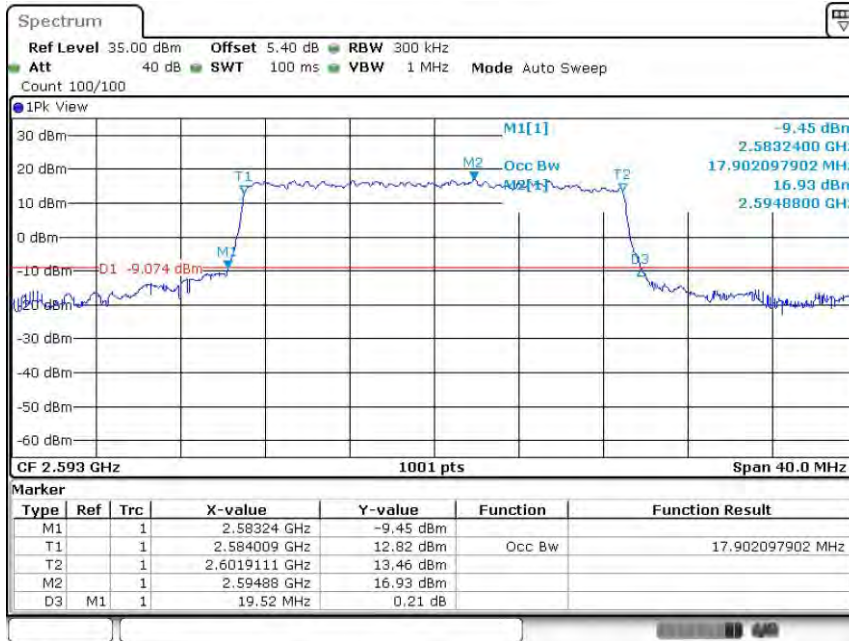


Date: 5.AUG.2021 19:38:25



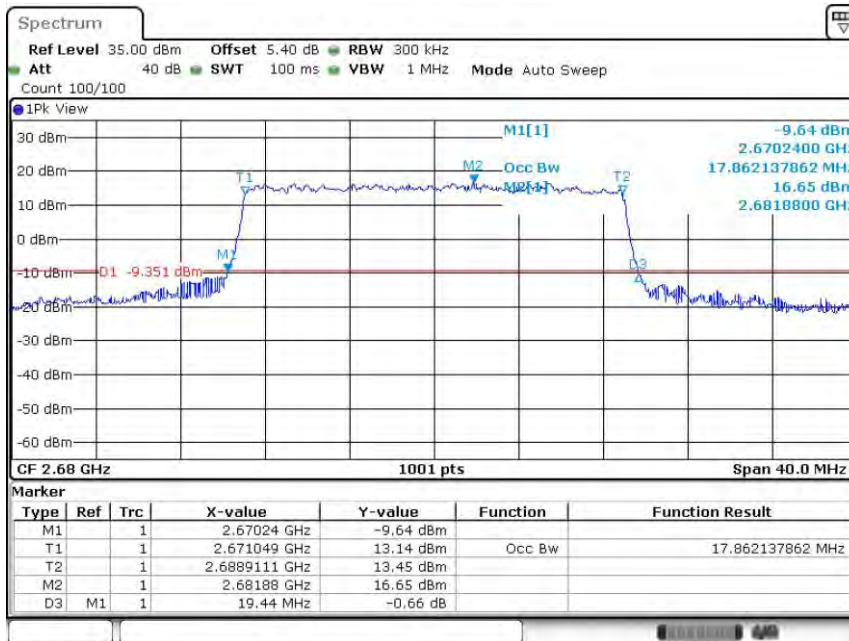
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Band41-20MHz-16QAM-40620-100RB#0



Date: 5.AUG.2021 19:40:05

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



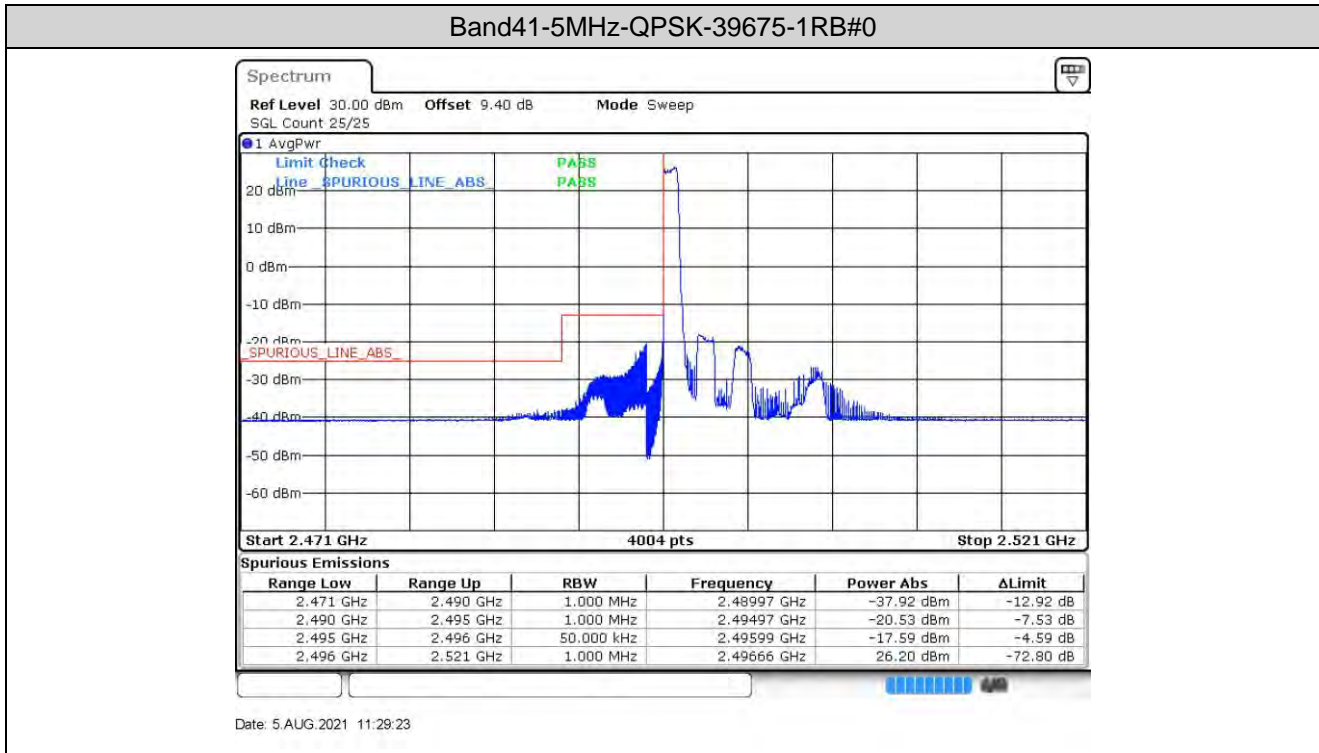
Date: 5.AUG.2021 19:42:39



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5. Band Edge Compliance

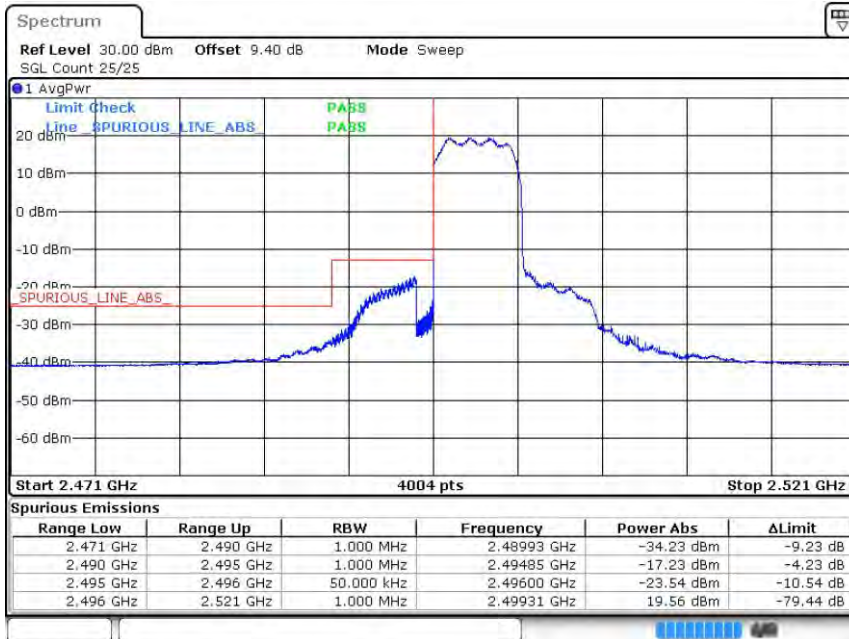
5.1. Test Plots



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



Date: 5.AUG.2021 11:30:06

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



Date: 5.AUG.2021 11:31:07



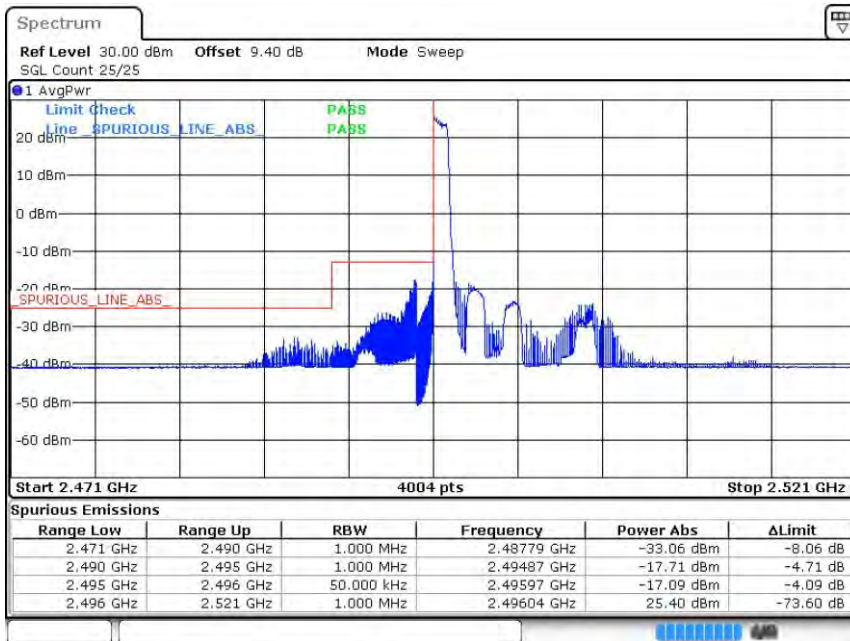
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Band41-5MHz-QPSK-41565-25RB#0



Date: 5.AUG.2021 11:32:34

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

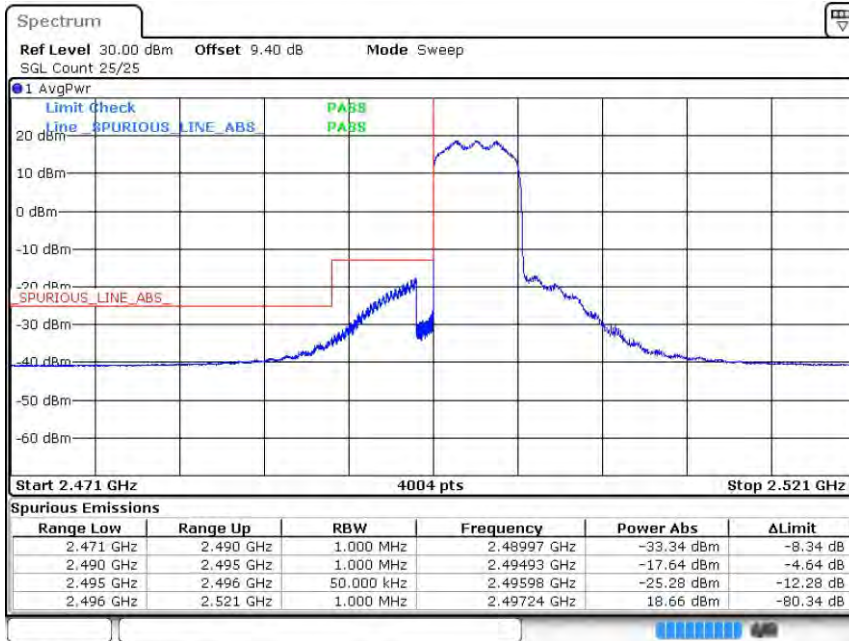


Date: 5.AUG.2021 11:29:44



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



Date: 5.AUG.2021 11:30:26

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

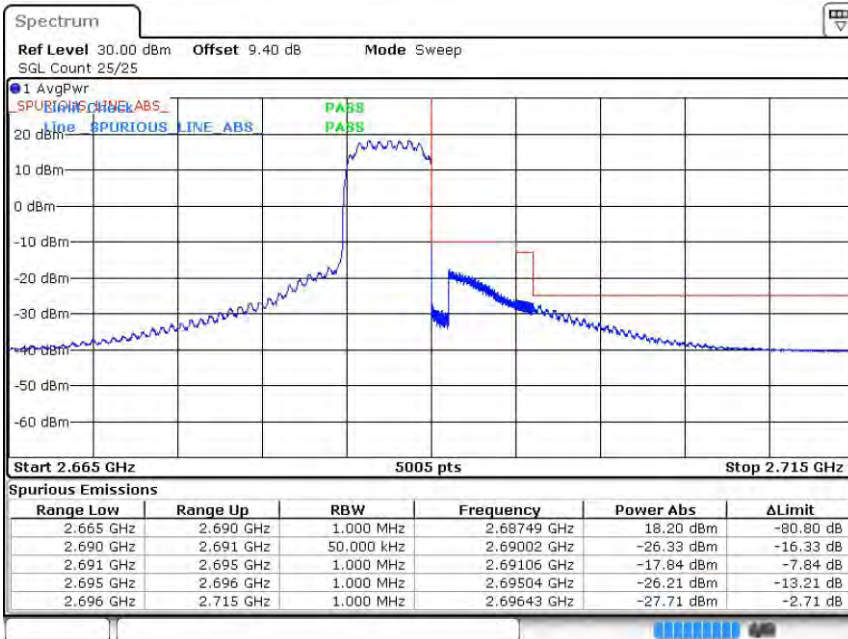


Date: 5.AUG.2021 11:31:39



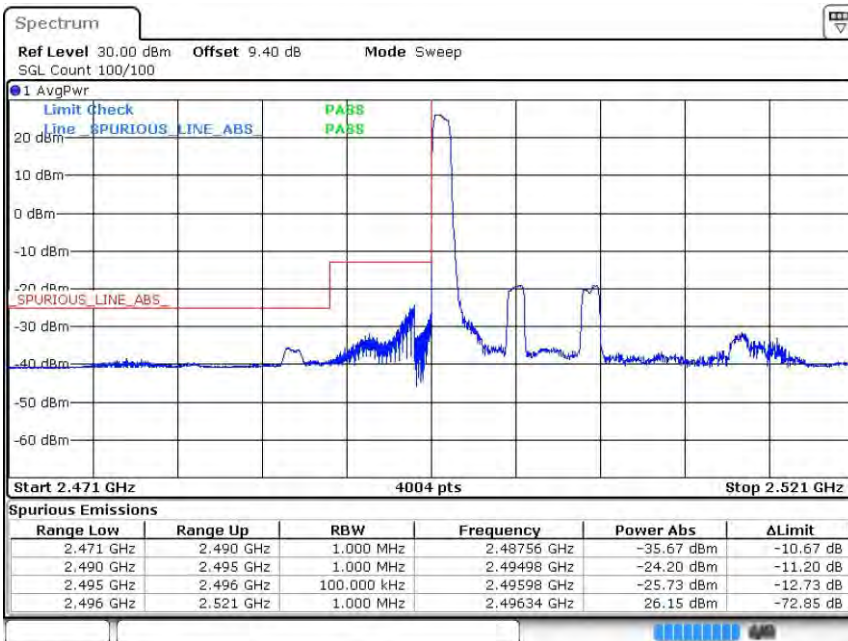
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Band41-5MHz-16QAM-41565-25RB#0



Date: 5.AUG.2021 11:33:05

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



Date: 5.AUG.2021 11:52:24

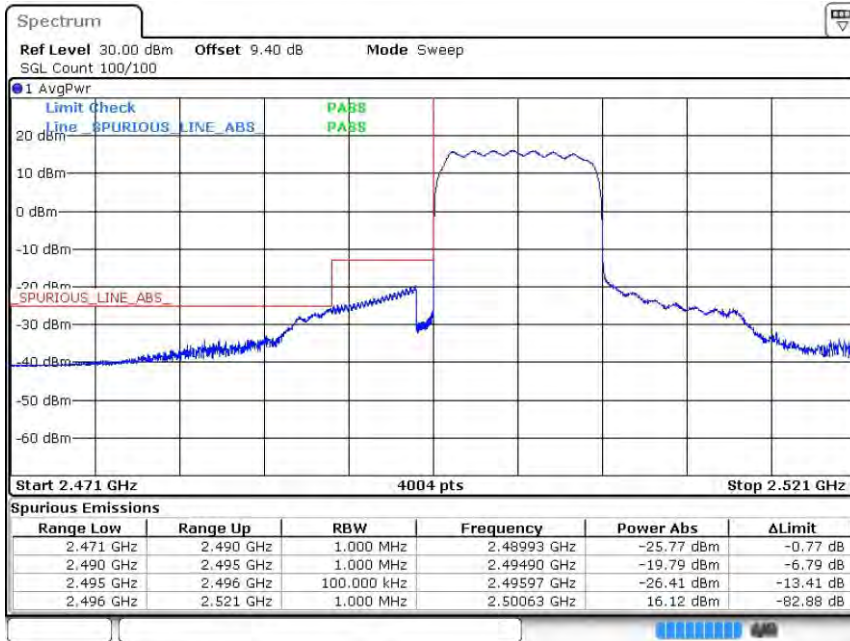


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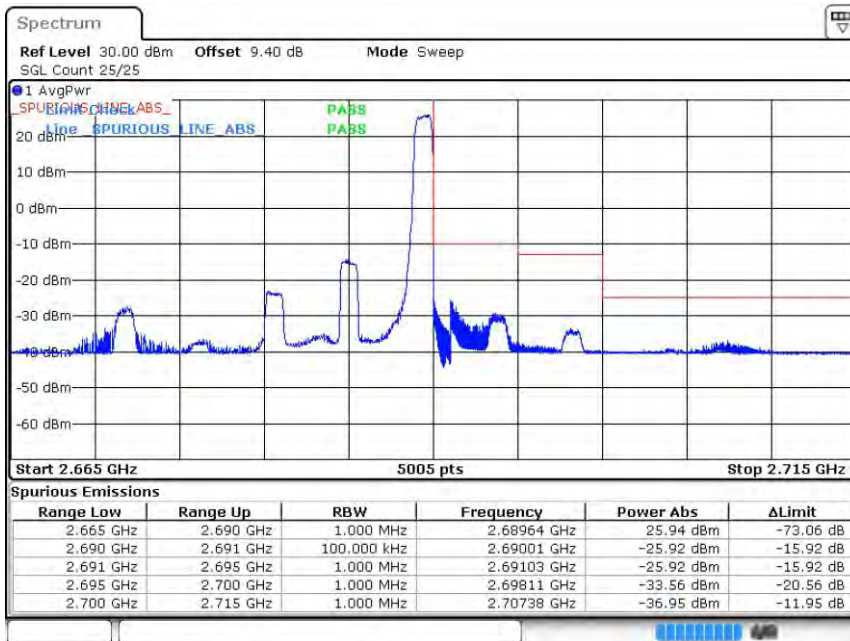
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Band41-10MHz-QPSK-39700-50RB#0



Date: 5.AUG.2021 11:36:21

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

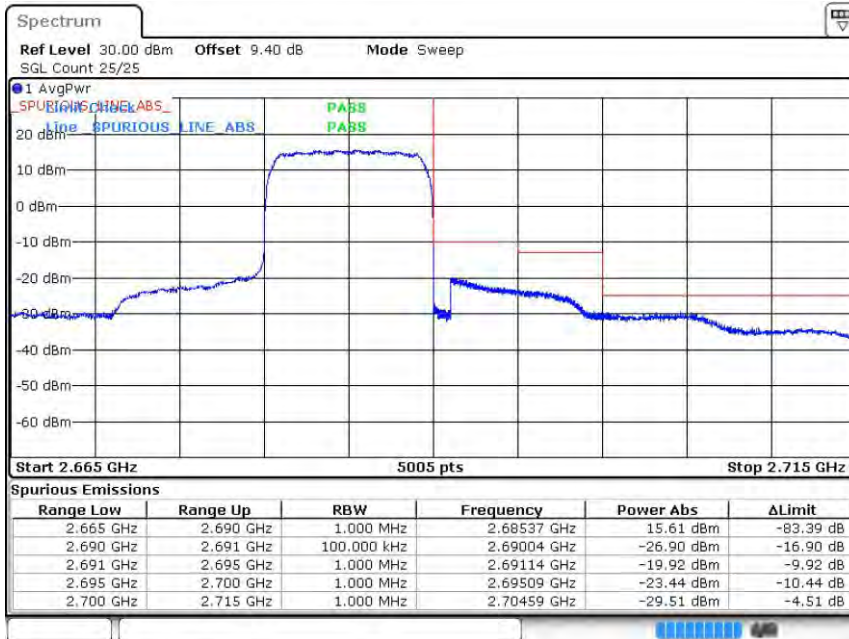


Date: 5.AUG.2021 11:54:02



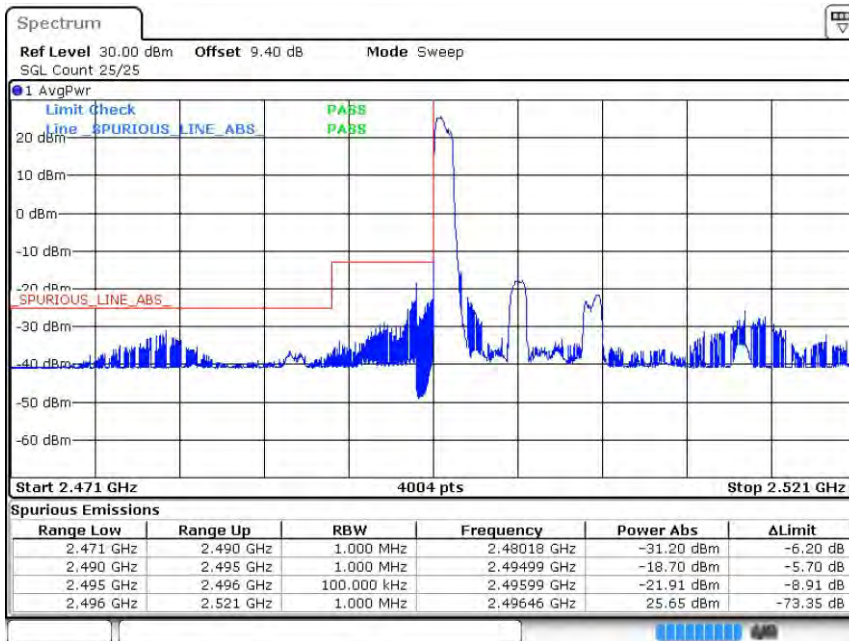
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Band41-10MHz-QPSK-41540-50RB#0



Date: 5.AUG.2021 11:39:17

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



Date: 5.AUG.2021 11:53:06

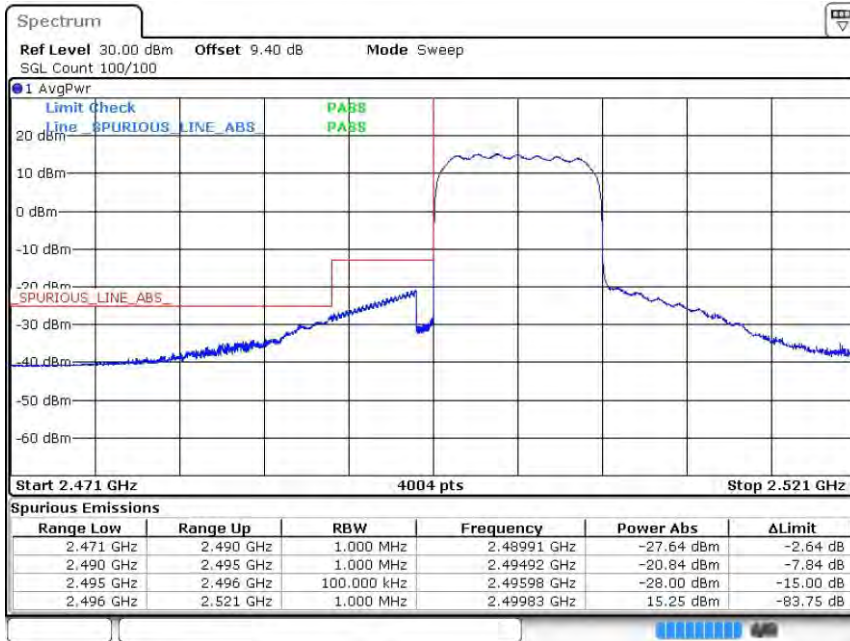


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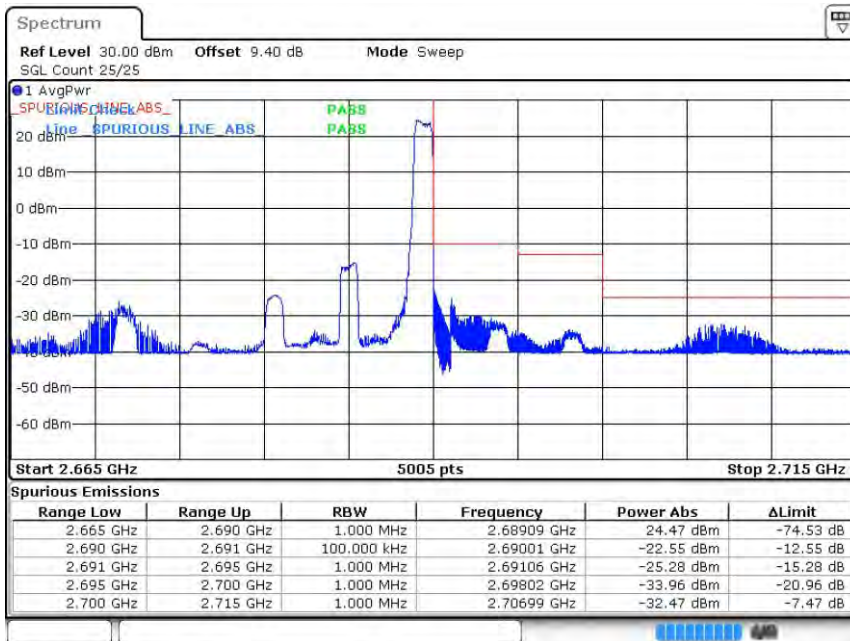
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Band41-10MHz-16QAM-39700-50RB#0



Date: 5.AUG.2021 11:37:34

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



Date: 5.AUG.2021 11:54:35

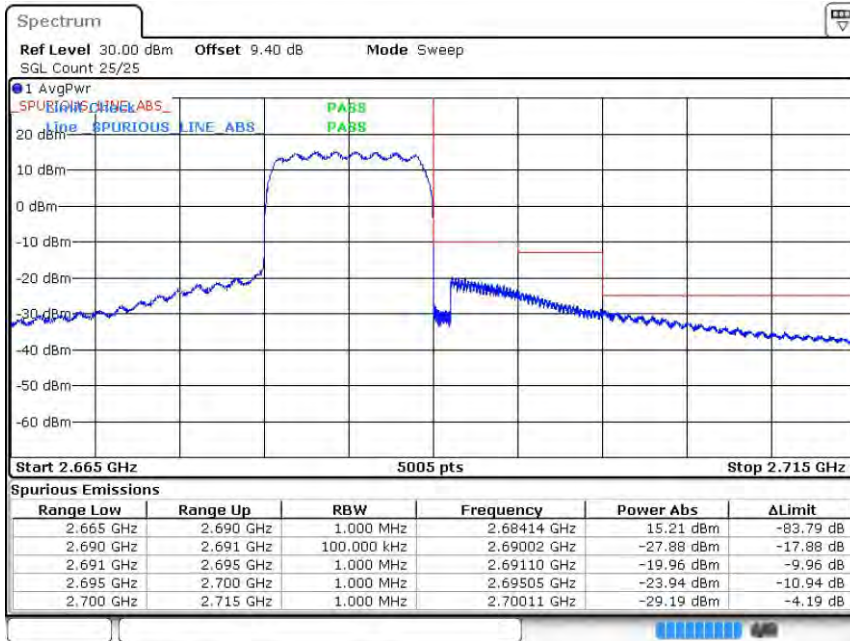


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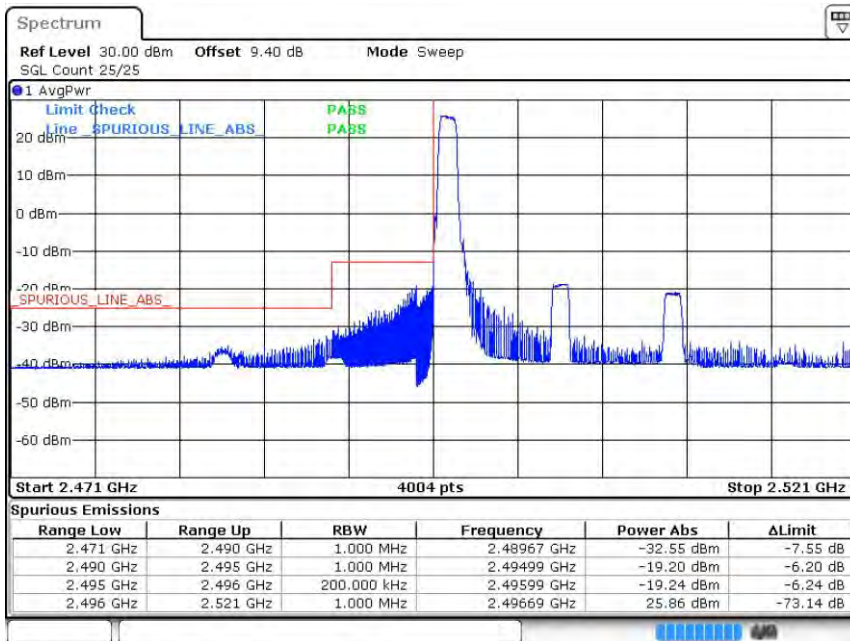
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Band41-10MHz-16QAM-41540-50RB#0



Date: 5.AUG.2021 11:39:45

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

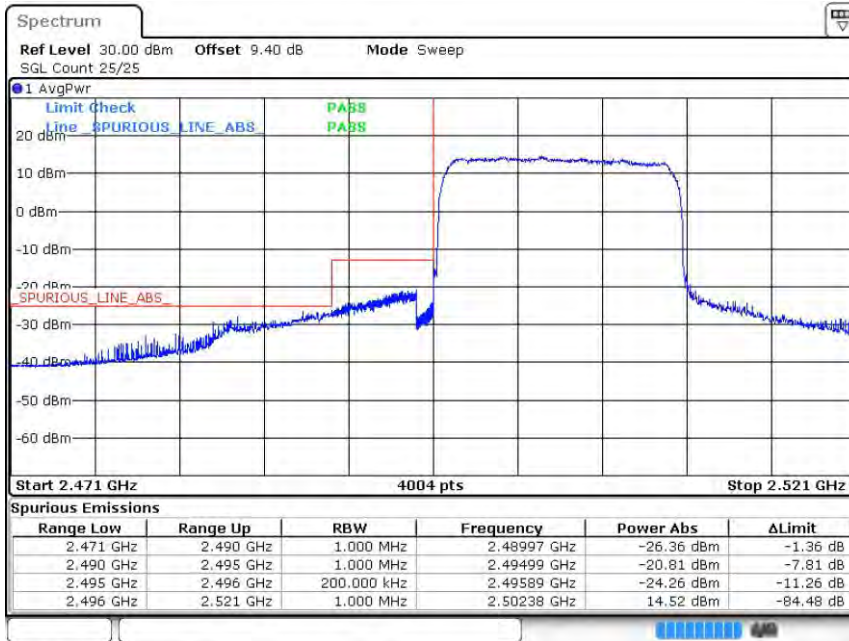


Date: 5.AUG.2021 11:58:49



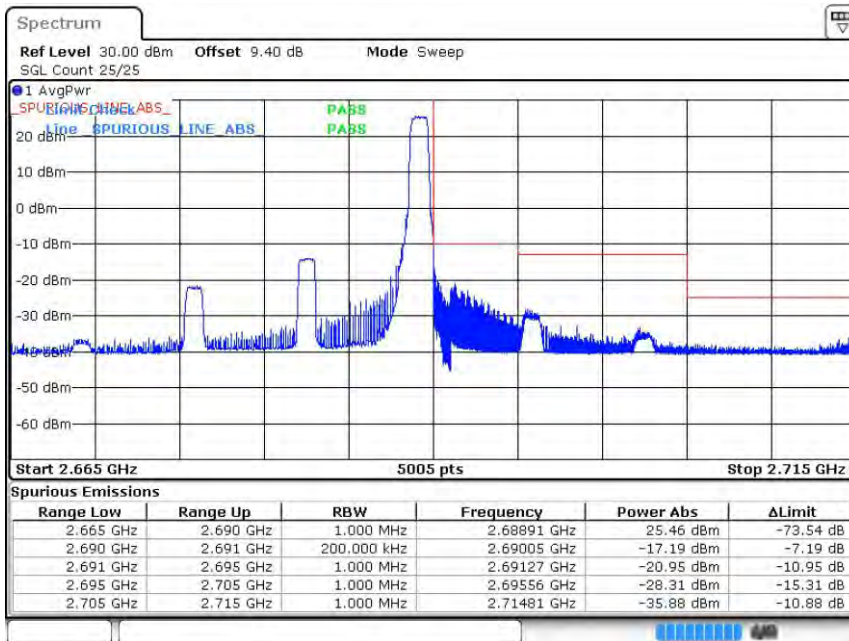
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Band41-15MHz-QPSK-39725-75RB#0



Date: 5.AUG.2021 11:41:03

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

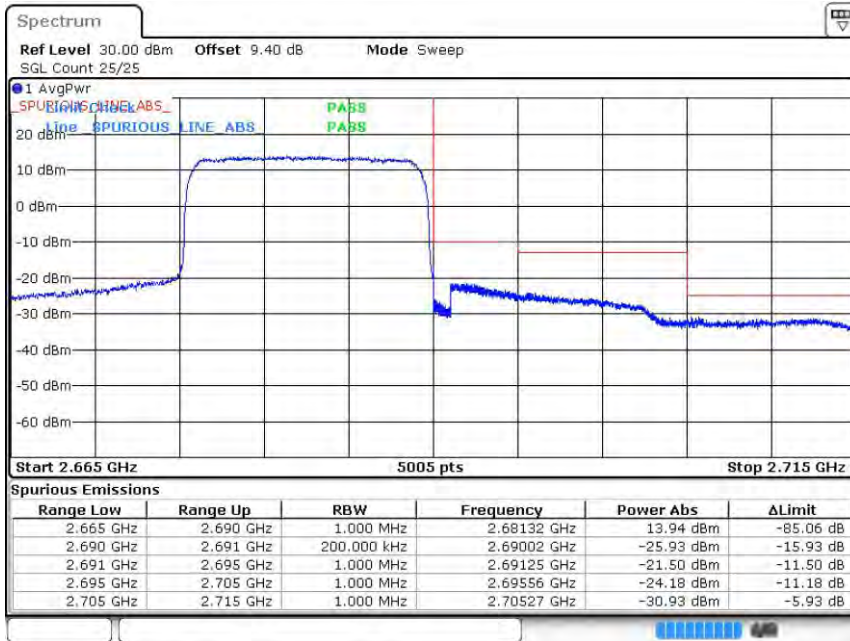


Date: 5.AUG.2021 11:42:54



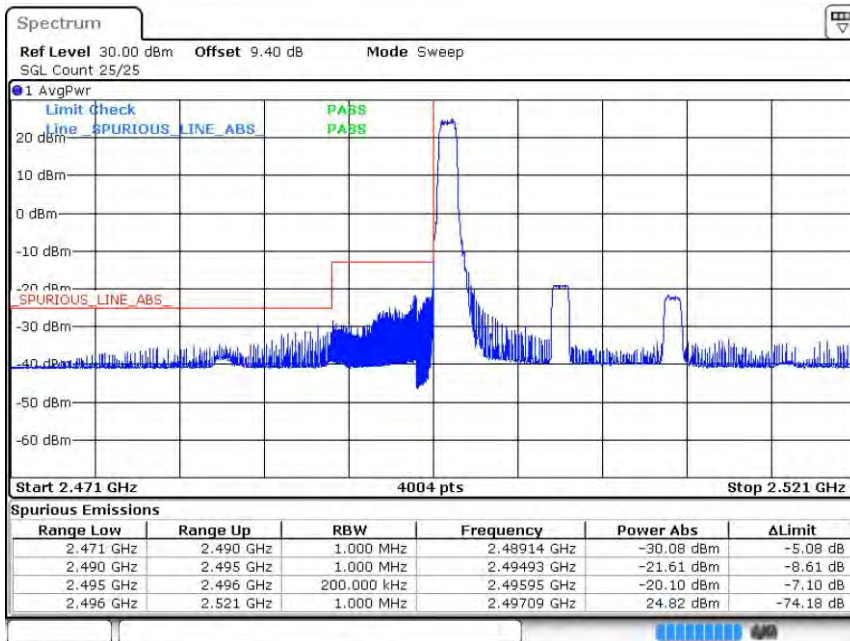
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Band41-15MHz-QPSK-41515-75RB#0



Date: 5.AUG.2021 11:44:32

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

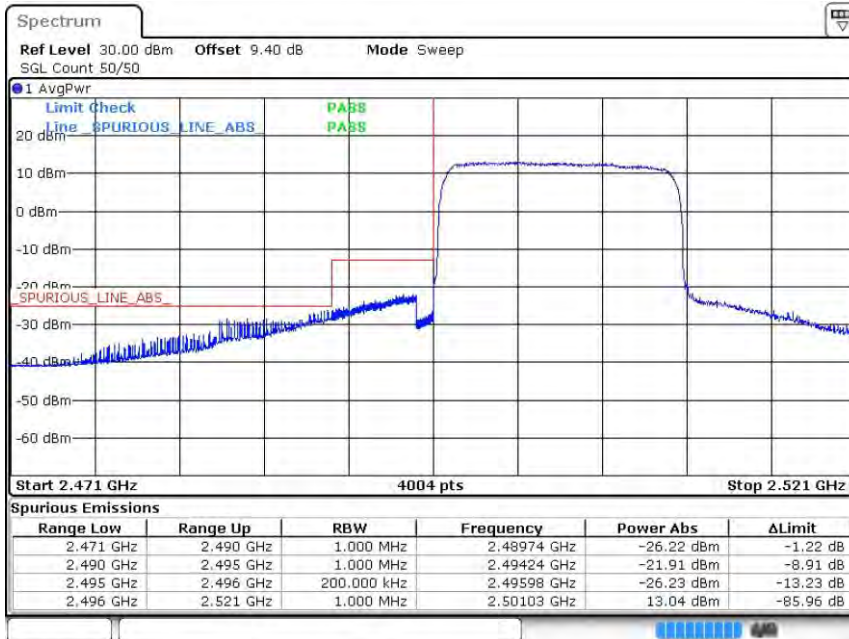


Date: 5.AUG.2021 11:59:14



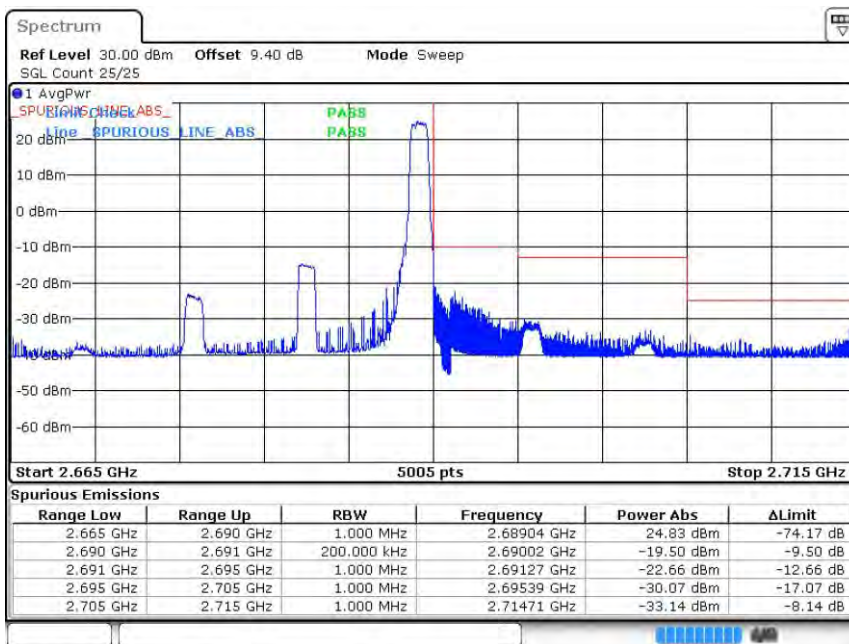
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Band41-15MHz-16QAM-39725-75RB#0



Date: 5.AUG.2021 11:41:50

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

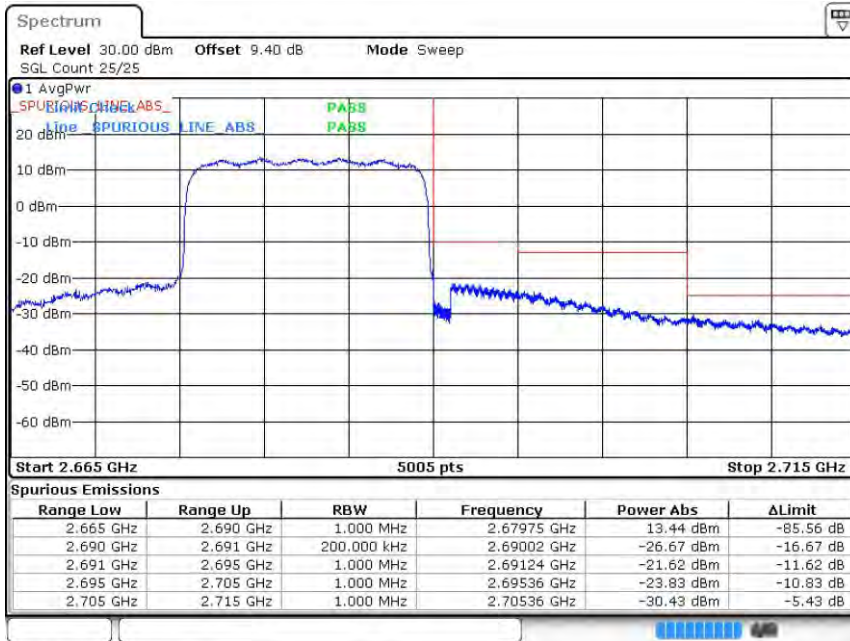


Date: 5.AUG.2021 11:44:10



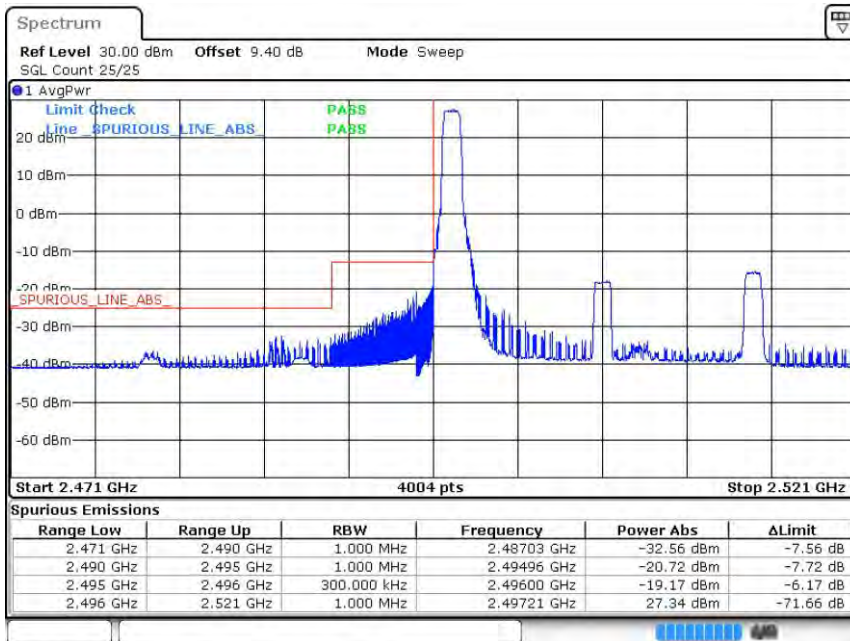
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Band41-15MHz-16QAM-41515-75RB#0



Date: 5.AUG.2021 11:44:52

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

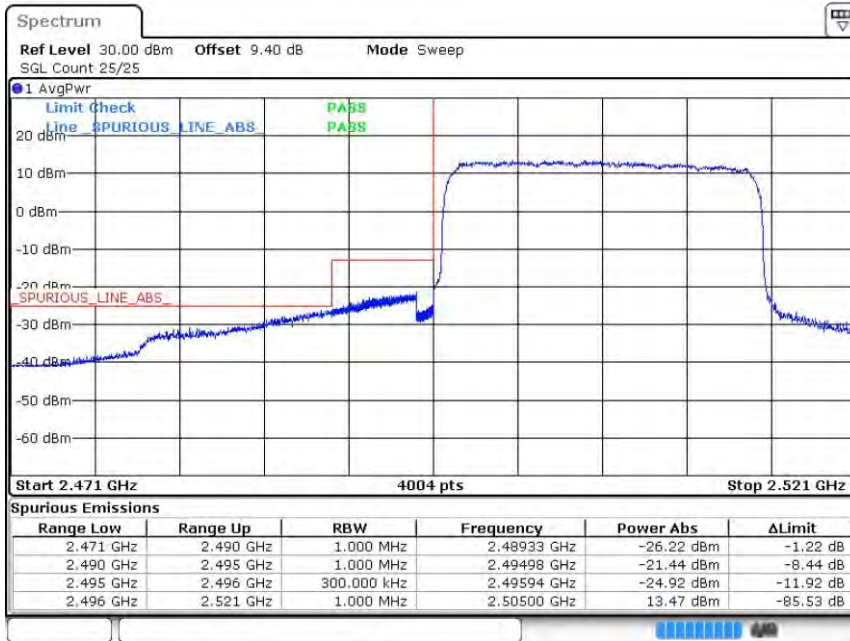


Date: 5.AUG.2021 20:30:56



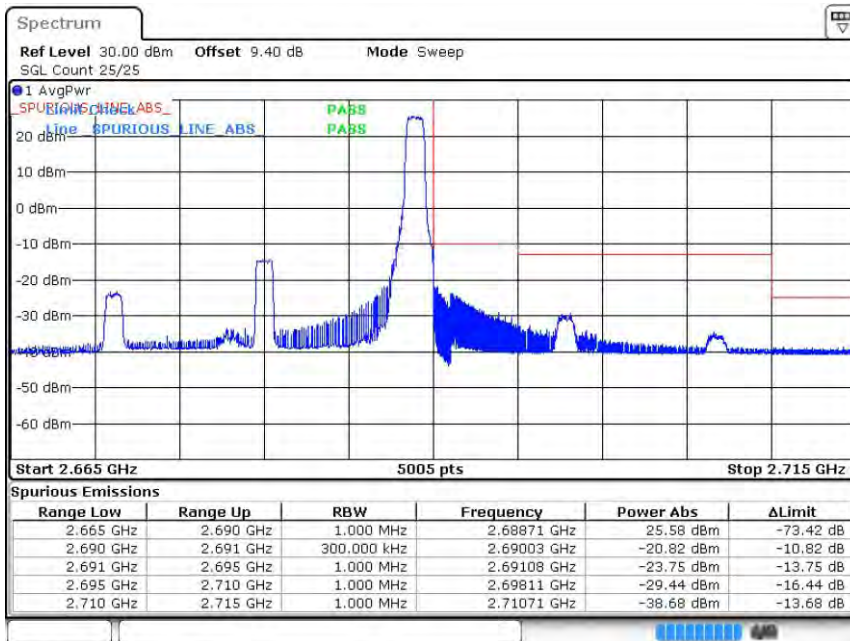
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Band41-20MHz-QPSK-39750-100RB#0



Date: 5.AUG.2021 11:45:53

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

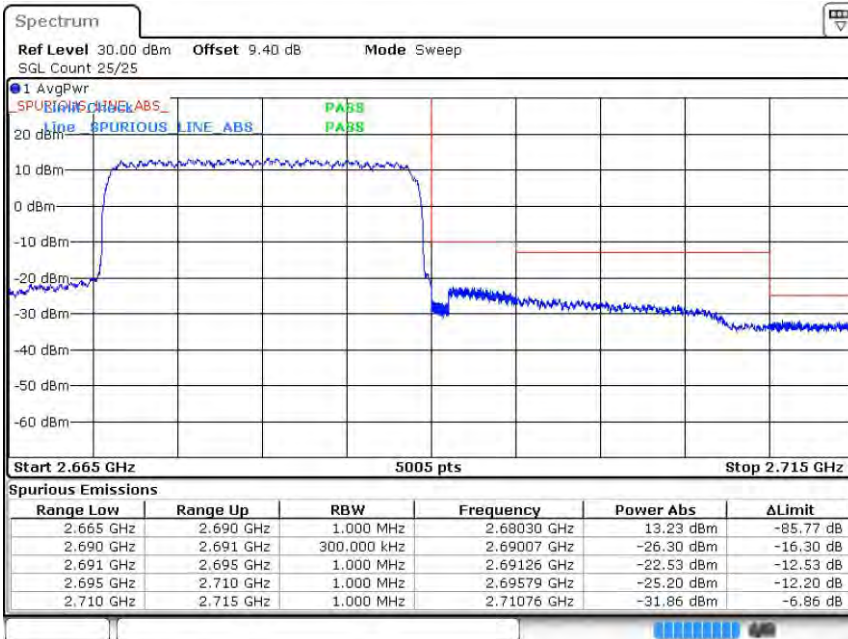


Date: 5.AUG.2021 11:47:21



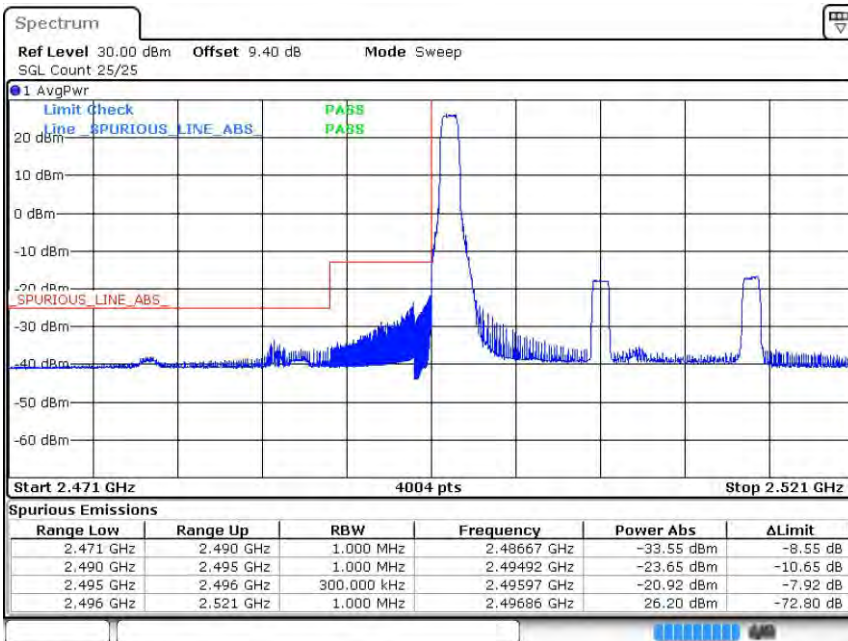
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Band41-20MHz-QPSK-41490-100RB#0



Date: 5.AUG.2021 11:48:07

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



Date: 5.AUG.2021 20:31:20

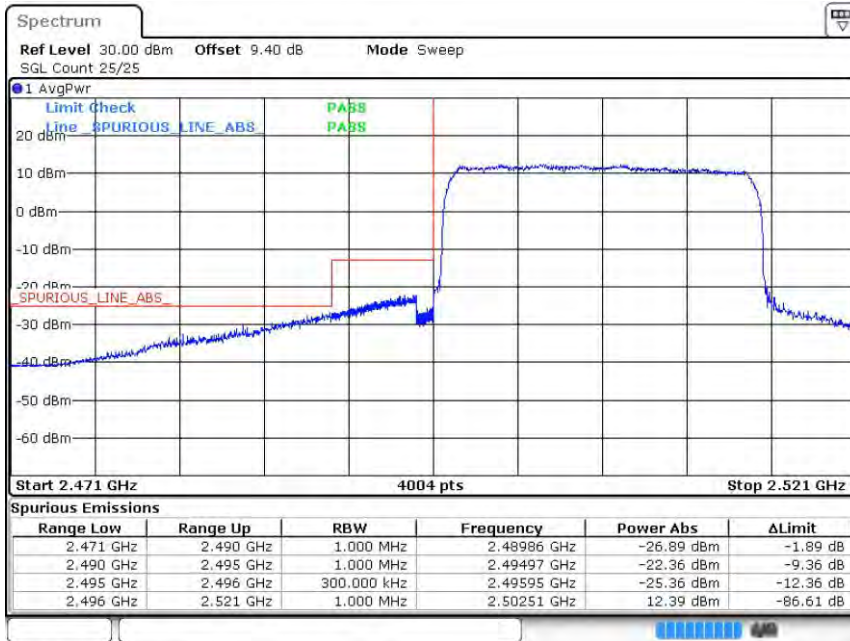


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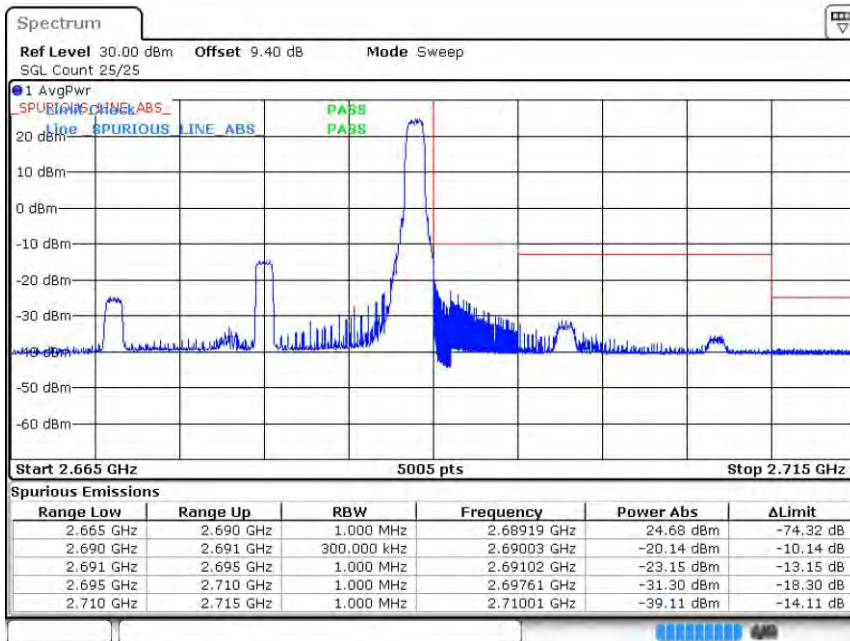
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Band41-20MHz-16QAM-39750-100RB#0



Date: 5.AUG.2021 11:46:14

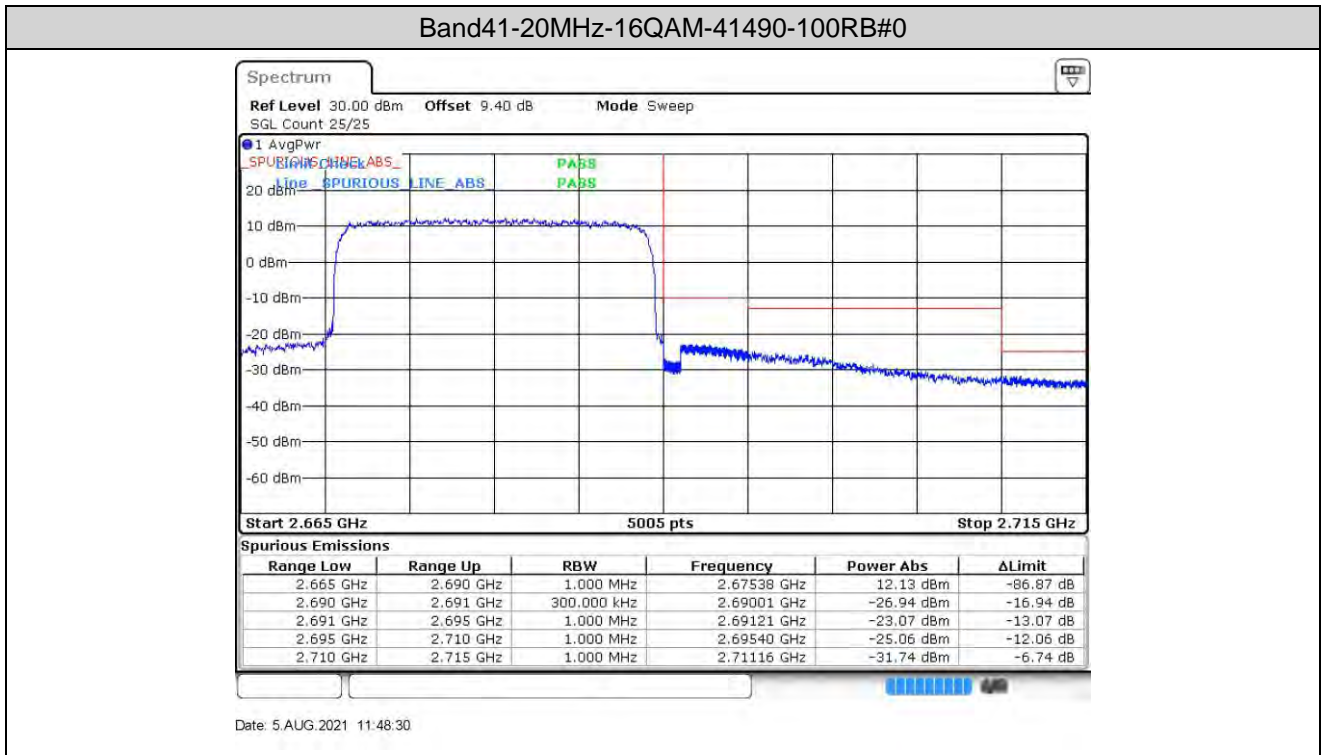
Band41-20MHz-16QAM-41490-1RB#99



Date: 5.AUG.2021 11:47:45



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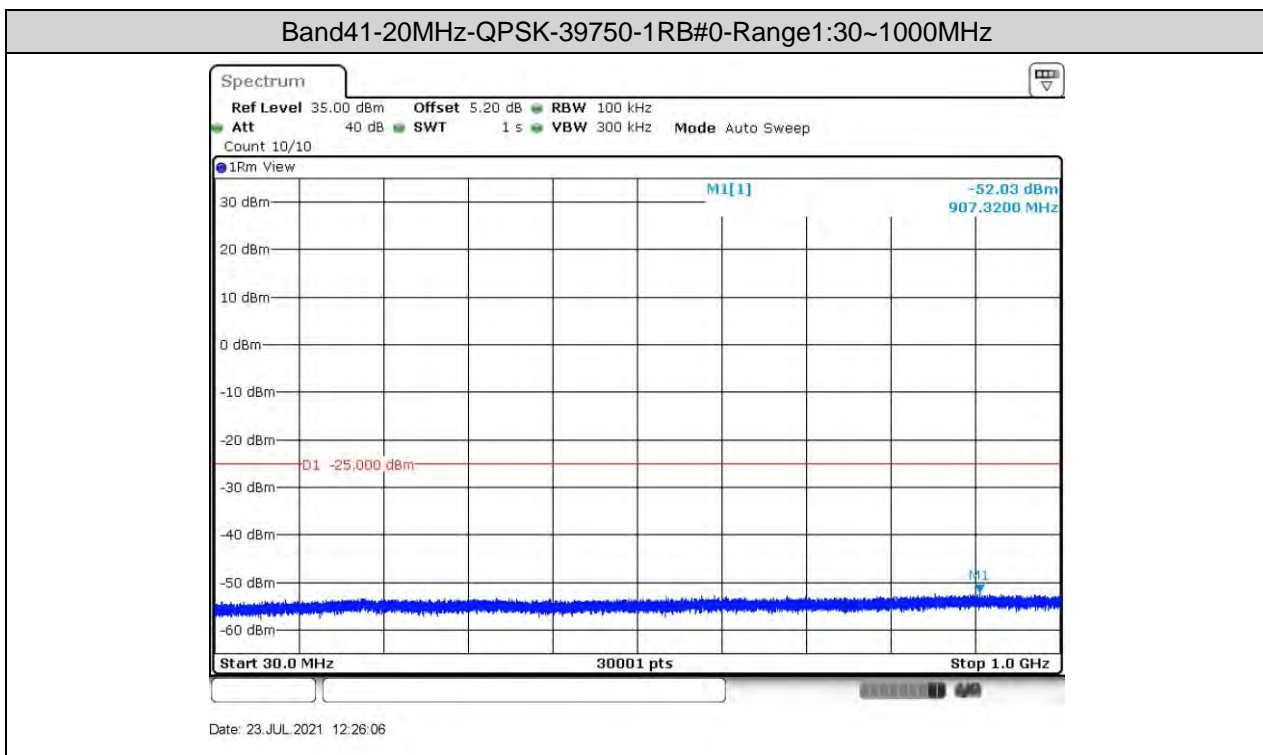
6. Spurious Emission at Antenna Terminal

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.

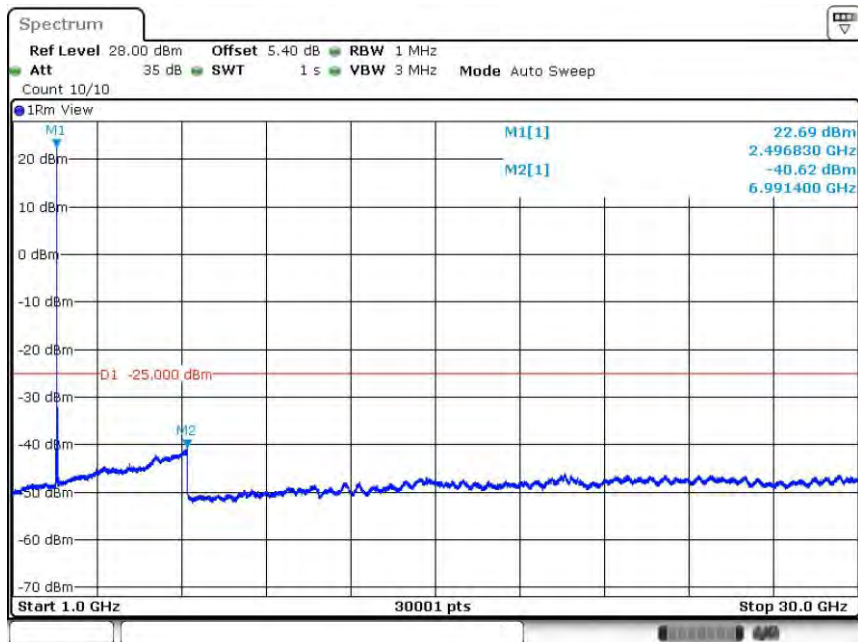
6.1. Test Plots



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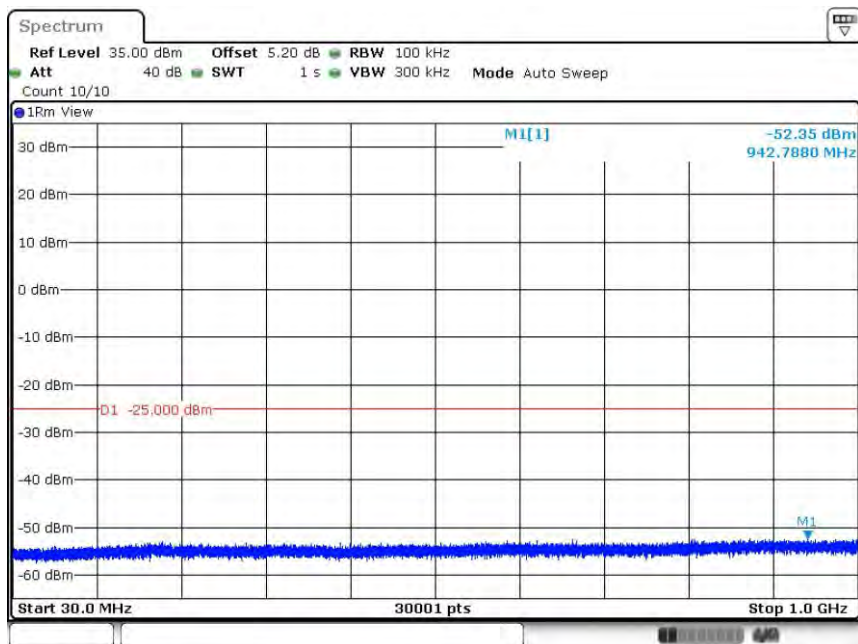
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Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz



Date: 23 JUL 2021 12:26:23

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



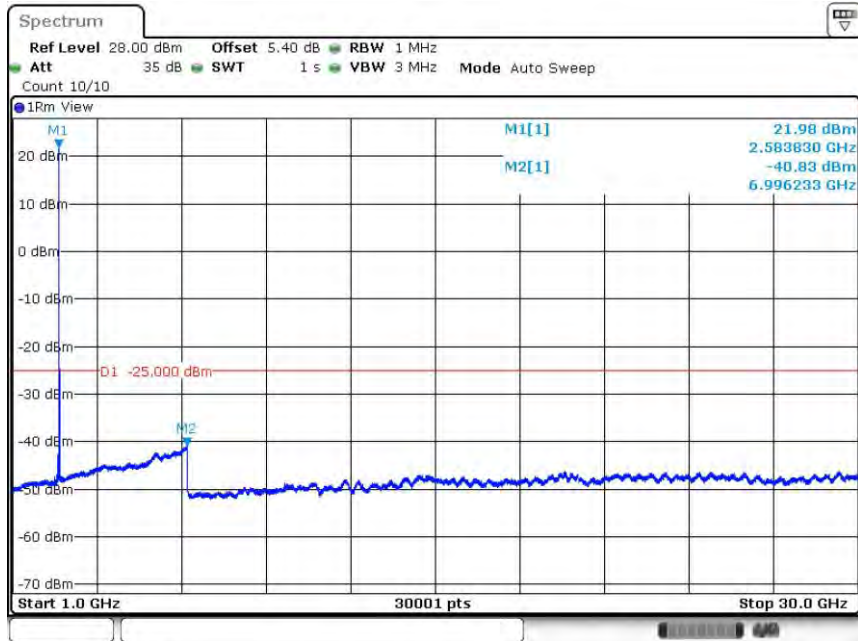
Date: 23 JUL 2021 12:27:28



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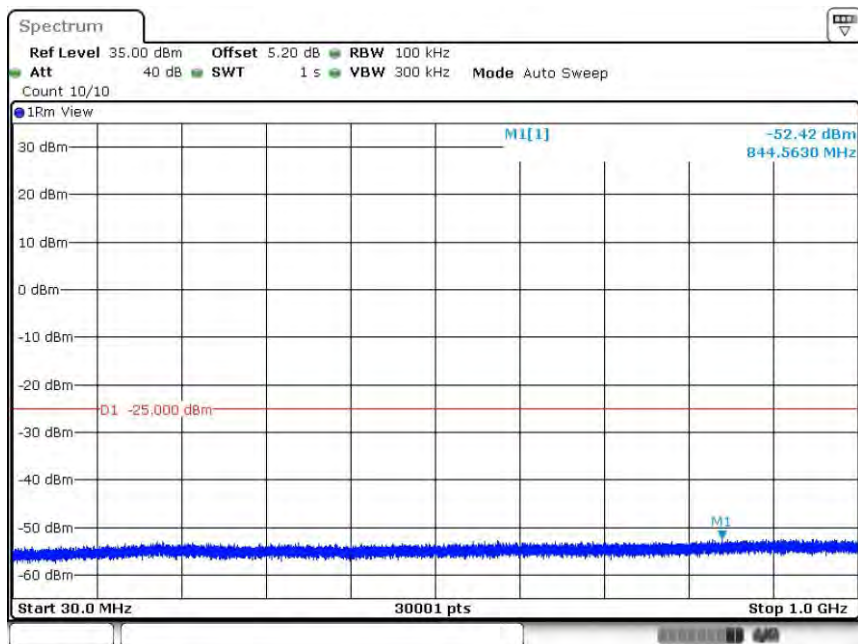
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Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz



Date: 23 JUL 2021 12:27:45

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



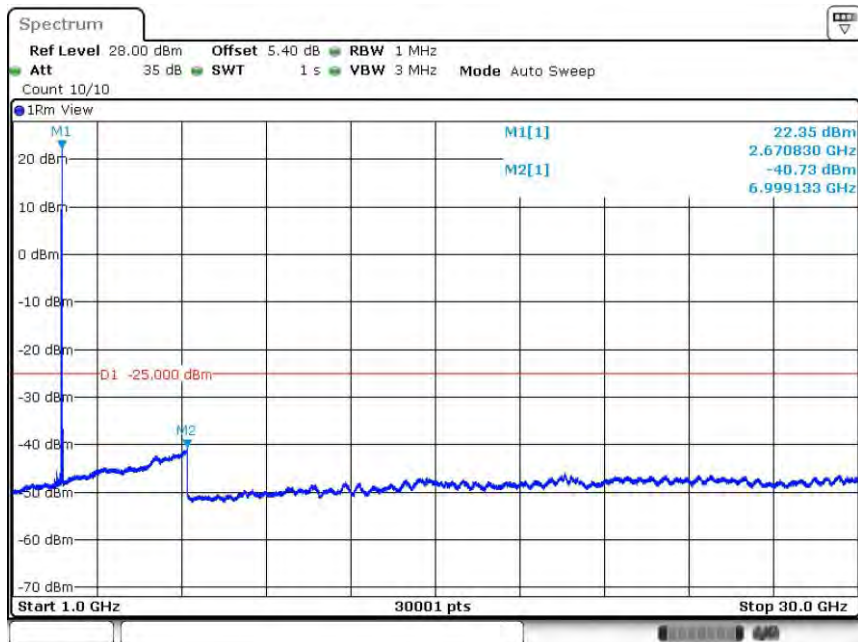
Date: 23 JUL 2021 12:28:50



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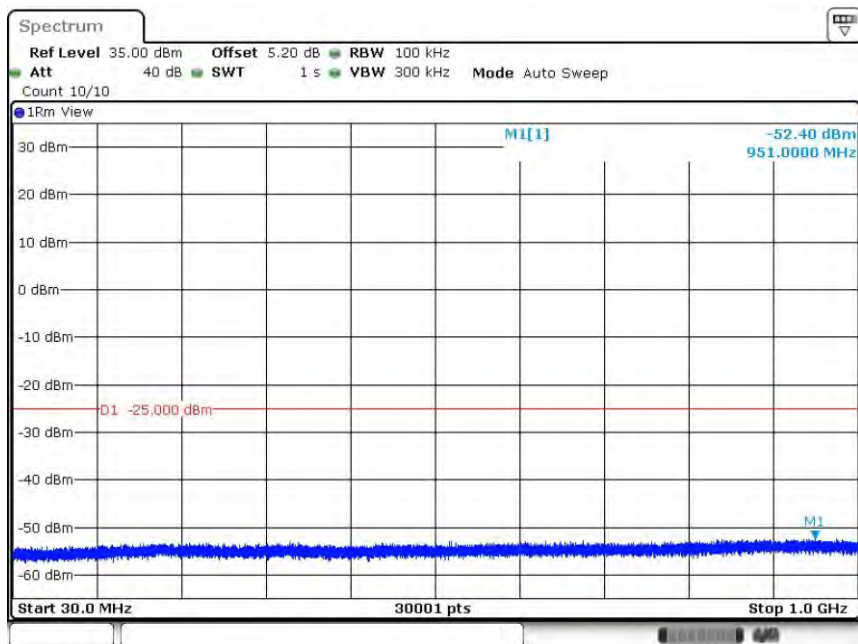
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Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz



Date: 23 JUL 2021 12:29:07

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



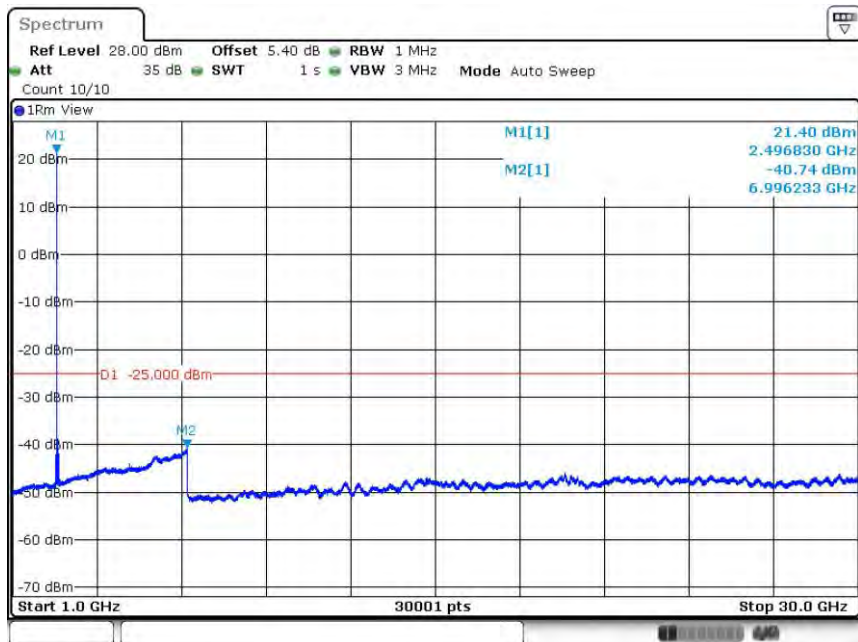
Date: 23 JUL 2021 12:26:47



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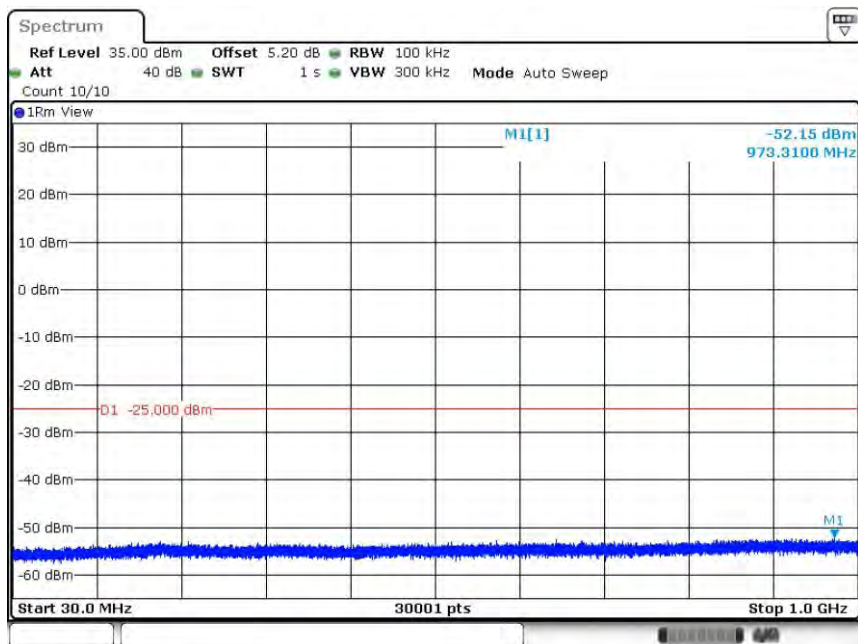


Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz



Date: 23 JUL 2021 12:27:04

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

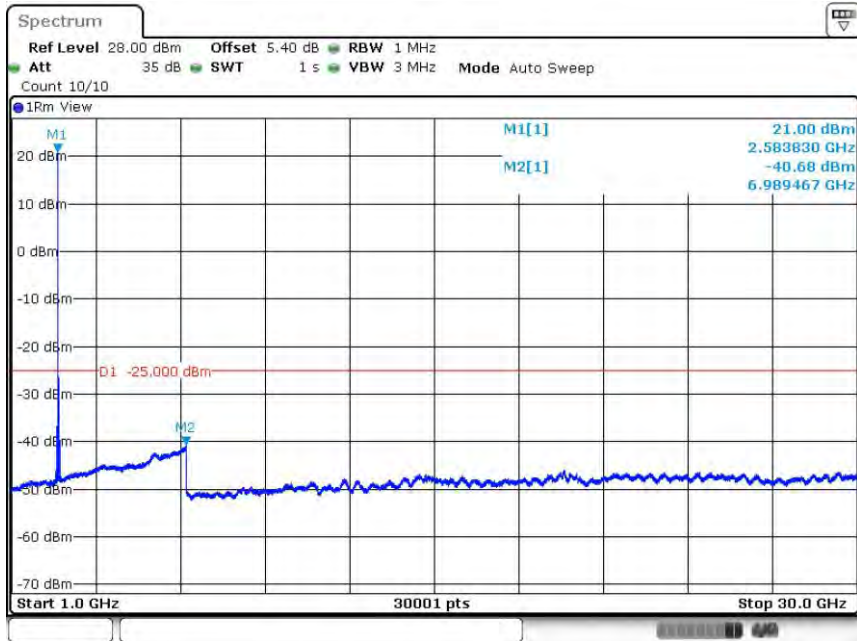


Date: 23 JUL 2021 12:28:09



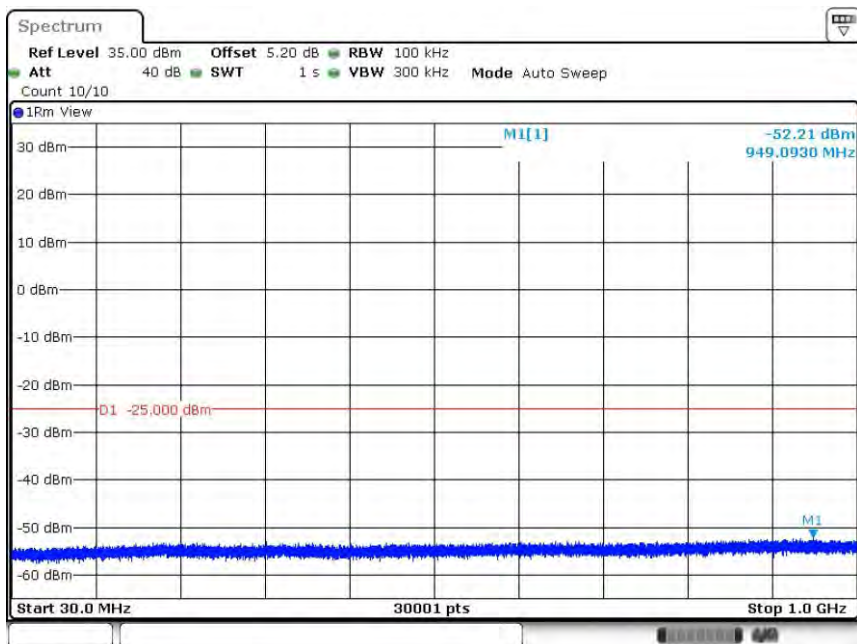
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Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz



Date: 23 JUL 2021 12:28:26

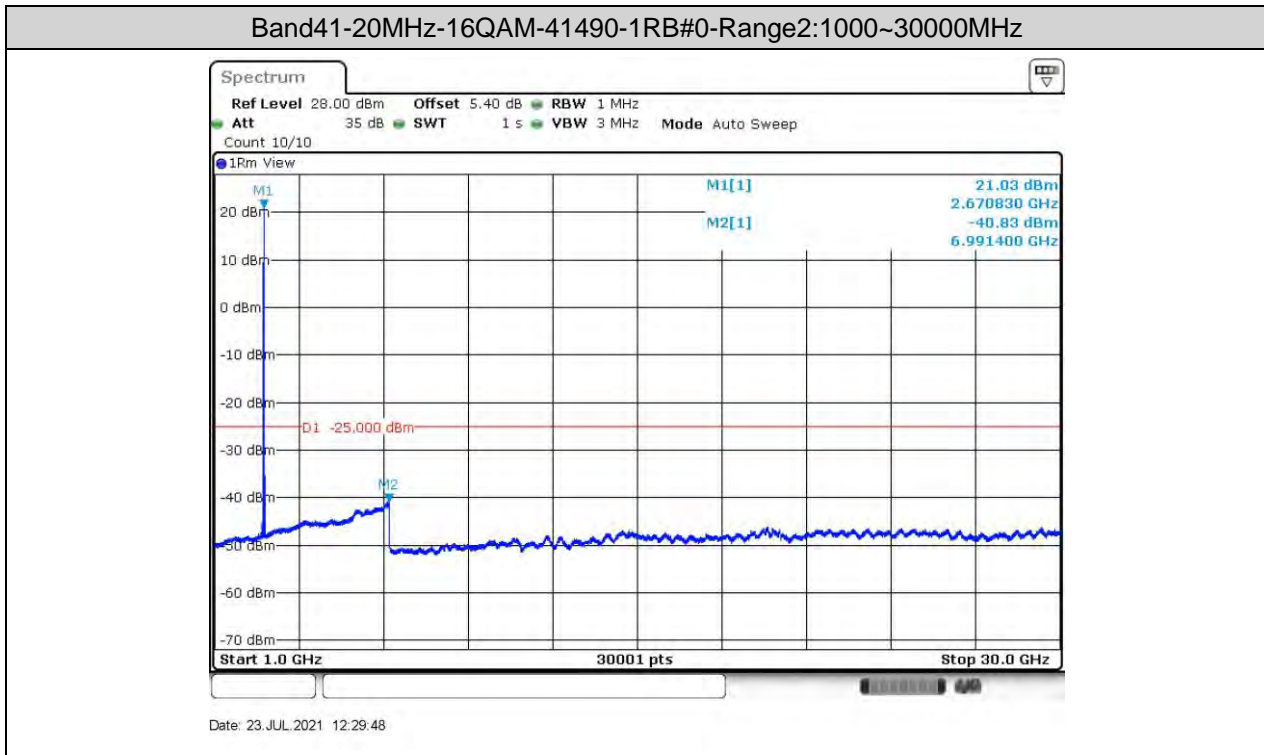
Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



Date: 23 JUL 2021 12:29:31



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7. Field Strength of Spurious Radiation

7.1. Test Band = _41 _TM1

7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1228.5286	20.94	-51.00	-25.00	26.00	Horizontal
2	2908.4886	20.63	-46.92	-25.00	21.92	Horizontal
3	5677.6339	49.68	-59.63	-25.00	34.63	Horizontal
4	9427.8214	47.28	-52.40	-25.00	27.40	Horizontal
5	12373.9687	45.98	-47.55	-25.00	22.55	Horizontal
6	16379.9190	46.71	-44.06	-25.00	19.06	Horizontal



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7.2. Test Band = _41 _TM1

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1167.5209	20.64	-50.71	-25.00	25.71	Vertical
2	1937.6172	20.71	-48.89	-25.00	23.89	Vertical
3	2923.7405	20.91	-46.44	-25.00	21.44	Vertical
4	5818.6409	49.61	-59.98	-25.00	34.98	Vertical
5	9901.8451	46.67	-52.33	-25.00	27.33	Vertical
6	15014.1007	44.34	-45.88	-25.00	20.88	Vertical



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7.3. Test Band = _41 _TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1353.7942	20.67	-50.39	-25.00	25.39	Horizontal
2	2993.9993	20.49	-46.82	-25.00	21.82	Horizontal
3	5625.8813	49.73	-60.20	-25.00	35.20	Horizontal
4	8374.7687	47.80	-54.58	-25.00	29.58	Horizontal
5	11906.6953	46.12	-47.37	-25.00	22.37	Horizontal
6	16407.6704	47.37	-43.13	-25.00	18.13	Horizontal



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7.4. Test Band = _41 _TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1167.5209	20.55	-50.80	-25.00	25.80	Vertical
2	2110.6388	21.08	-48.46	-25.00	23.46	Vertical
3	2998.2498	21.32	-45.86	-25.00	20.86	Vertical
4	7484.4742	49.04	-54.74	-25.00	29.74	Vertical
5	12404.7202	45.59	-47.79	-25.00	22.79	Vertical
6	16361.1681	47.08	-44.08	-25.00	19.08	Vertical



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7.5. Test Band = _41_ TM1

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1134.7668	20.90	-50.94	-25.00	25.94	Horizontal
2	1984.3730	20.68	-48.66	-25.00	23.66	Horizontal
3	4041.0521	51.35	-65.63	-25.00	40.63	Horizontal
4	7493.4747	49.08	-54.61	-25.00	29.61	Horizontal
5	11932.9466	45.66	-48.20	-25.00	23.20	Horizontal
6	16508.1754	46.99	-44.10	-25.00	19.10	Horizontal



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7.6. Test Band = _41_ TM1

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1212.0265	20.69	-51.06	-25.00	26.06	Vertical
2	2303.4129	21.16	-47.76	-25.00	22.76	Vertical
3	5694.8847	49.64	-59.45	-25.00	34.45	Vertical
4	7471.7236	48.81	-55.10	-25.00	30.10	Vertical
5	11050.9025	45.47	-50.67	-25.00	25.67	Vertical
6	16412.1706	47.37	-43.22	-25.00	18.22	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		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	20.50	0.008180	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	10.30	0.004110	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	22.00	0.008779	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	5.00	0.001928	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	4.90	0.001890	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	3.20	0.001194	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	2.10	0.000784	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	7.40	0.002761	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	39.60	0.015802	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	44.80	0.017877	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	20.20	0.008061	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	-0.70	-0.000270	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-2.00	-0.000771	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	0.20	0.000077	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	6.30	0.002351	±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	3.90	0.001455	±2.5	PASS



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8.2. Frequency Vs Temperature

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	5.60	0.002235	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	15.80	0.006305	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	23.00	0.009178	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	16.60	0.006624	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	18.00	0.007183	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	12.60	0.005028	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	27.20	0.010854	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	21.20	0.008460	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	13.30	0.005307	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	2.80	0.001080	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	5.80	0.002237	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	5.90	0.002275	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	3.60	0.001388	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	2.10	0.000810	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-0.90	-0.000347	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-2.00	-0.000771	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	3.00	0.001157	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	5.60	0.002090	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	6.70	0.002500	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	4.60	0.001716	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	8.80	0.003284	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	2.40	0.000896	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	0.80	0.000299	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	1.80	0.000672	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	6.80	0.002537	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	6.70	0.002500	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	4.10	0.001636	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	10.50	0.004190	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	26.30	0.010495	±2.5	PASS



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Band41	20MHz	16QAM	39750	100RB#0	NV	0	27.30	0.010894	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	28.80	0.011492	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	21.40	0.008540	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	27.10	0.010814	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	17.40	0.006943	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	14.10	0.005626	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-0.70	-0.000270	±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	4.60	0.001774	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-0.10	-0.000039	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	3.30	0.001273	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-0.70	-0.000270	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	1.30	0.000501	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-1.80	-0.000694	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	4.60	0.001774	±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	6.60	0.002463	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-10	7.50	0.002799	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	1.90	0.000709	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	1.60	0.000597	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	3.60	0.001343	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	0.80	0.000299	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	1.10	0.000410	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	1.60	0.000597	±2.5	PASS

The End



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