



Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.56	20.73	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.97	21.14	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.41	20.58	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.84	20.01	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.80	19.97	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.66	19.83	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.74	19.91	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.42	20.59	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.86	21.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.56	20.73	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.71	19.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.70	19.87	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.62	19.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.71	19.88	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.40	20.57	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.82	20.99	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.19	20.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.72	19.89	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.69	19.86	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.59	19.76	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.65	19.82	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.50	19.67	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.27	19.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.27	19.44	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.80	18.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.66	18.83	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.54	18.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.82	18.99	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.47	19.64	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.50	19.67	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.61	19.78	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.71	18.88	38.45	PASS



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Band5	1.4MHz	16QAM	20525	3RB#1	21.71	18.88	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.85	19.02	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.75	18.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.44	19.61	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.66	19.83	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.37	19.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.73	18.90	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.87	19.04	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.69	18.86	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.71	18.88	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.54	20.71	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.96	21.13	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.42	20.59	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.82	19.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.82	19.99	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.65	19.82	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.75	19.92	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.44	20.61	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.86	21.03	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.55	20.72	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.71	19.88	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.71	19.88	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.61	19.78	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.70	19.87	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.43	20.60	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.80	20.97	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.20	20.37	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.77	19.94	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.66	19.83	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.57	19.74	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.65	19.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.50	19.67	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.29	19.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.29	19.46	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.79	18.96	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.68	18.85	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.56	18.73	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.81	18.98	38.45	PASS



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Band5	3MHz	16QAM	20525	1RB#0	22.47	19.64	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.51	19.68	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.64	19.81	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.70	18.87	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.75	18.92	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.81	18.98	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.76	18.93	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.43	19.60	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.68	19.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.35	19.52	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.72	18.89	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.82	18.99	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.65	18.82	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.72	18.89	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.55	20.72	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.96	21.13	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.44	20.61	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.82	19.99	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.80	19.97	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.68	19.85	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.72	19.89	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.42	20.59	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.83	21.00	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.53	20.70	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.72	19.89	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.70	19.87	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.65	19.82	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.71	19.88	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.38	20.55	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.80	20.97	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.16	20.33	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.74	19.91	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.68	19.85	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.57	19.74	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.64	19.81	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.50	19.67	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.31	19.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.29	19.46	38.45	PASS



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Band5	5MHz	16QAM	20425	12RB#0	21.78	18.95	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.67	18.84	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.59	18.76	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.79	18.96	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.44	19.61	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.53	19.70	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.62	19.79	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.72	18.89	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.73	18.90	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.84	19.01	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.78	18.95	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.45	19.62	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.64	19.81	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.36	19.53	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.75	18.92	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.83	19.00	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.68	18.85	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.71	18.88	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.06	21.23	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.05	21.22	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.51	20.68	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.89	20.06	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.88	20.05	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.75	19.92	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.80	19.97	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.52	20.69	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.93	21.10	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.63	20.80	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.77	19.94	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.77	19.94	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.70	19.87	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.79	19.96	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.48	20.65	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.87	21.04	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.25	20.42	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.82	19.99	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.75	19.92	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.66	19.83	38.45	PASS



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Band5	10MHz	QPSK	20600	50RB#0	22.71	19.88	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.55	19.72	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.37	19.54	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.36	19.53	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.87	19.04	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.73	18.90	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.64	18.81	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.87	19.04	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.53	19.70	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.58	19.75	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.69	19.86	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.77	18.94	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.81	18.98	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.91	19.08	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.84	19.01	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.51	19.68	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.73	19.90	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.43	19.60	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.80	18.97	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.92	19.09	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.74	18.91	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.81	18.98	38.45	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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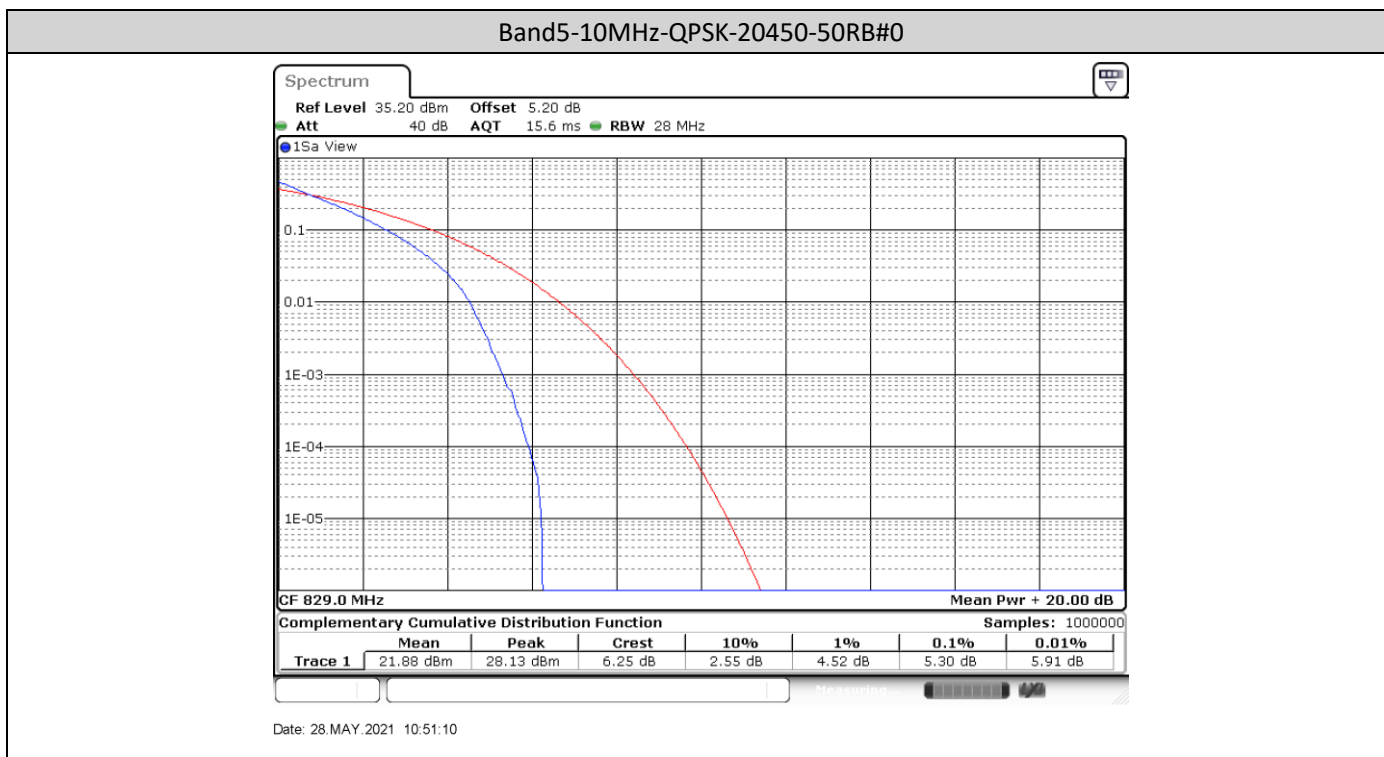


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.30	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.97	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.09	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.94	13	PASS

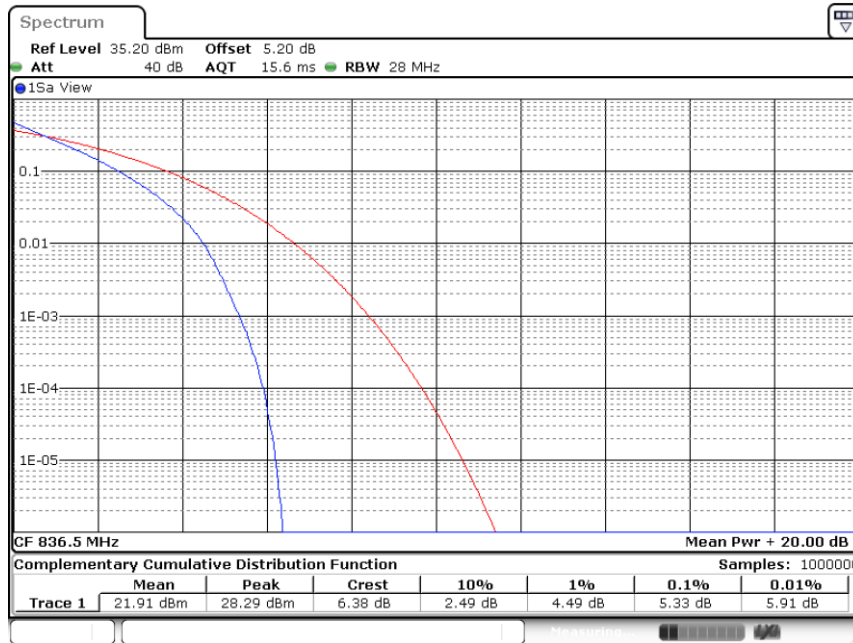
2.2. Test Plots



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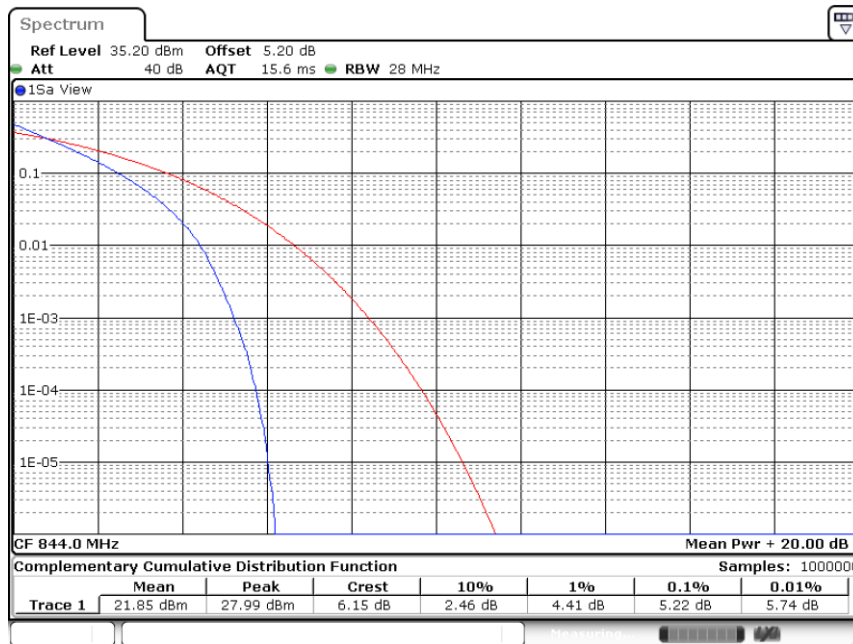
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Band5-10MHz-QPSK-20525-50RB#0



Date: 28.MAY.2021 10:51:33

Band5-10MHz-QPSK-20600-50RB#0

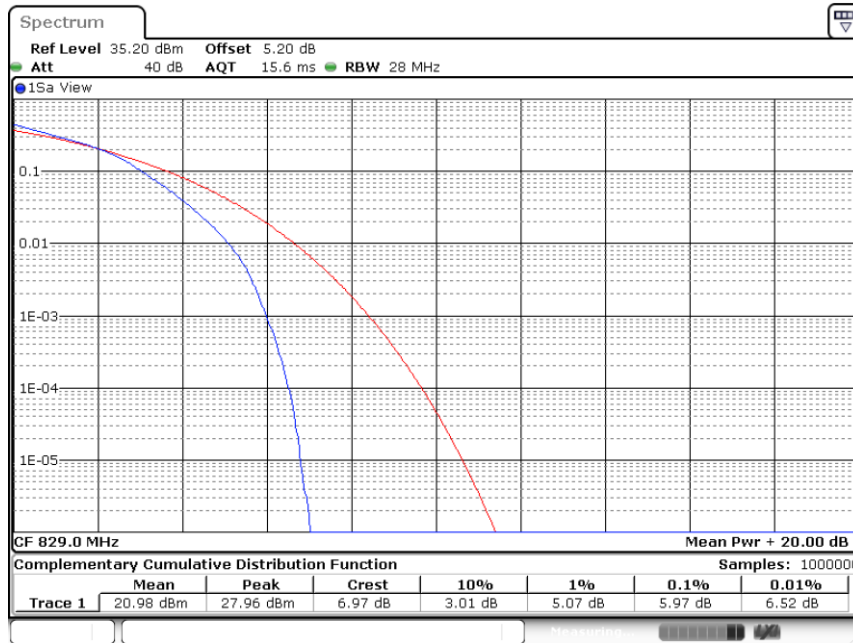


Date: 28.MAY.2021 10:51:56



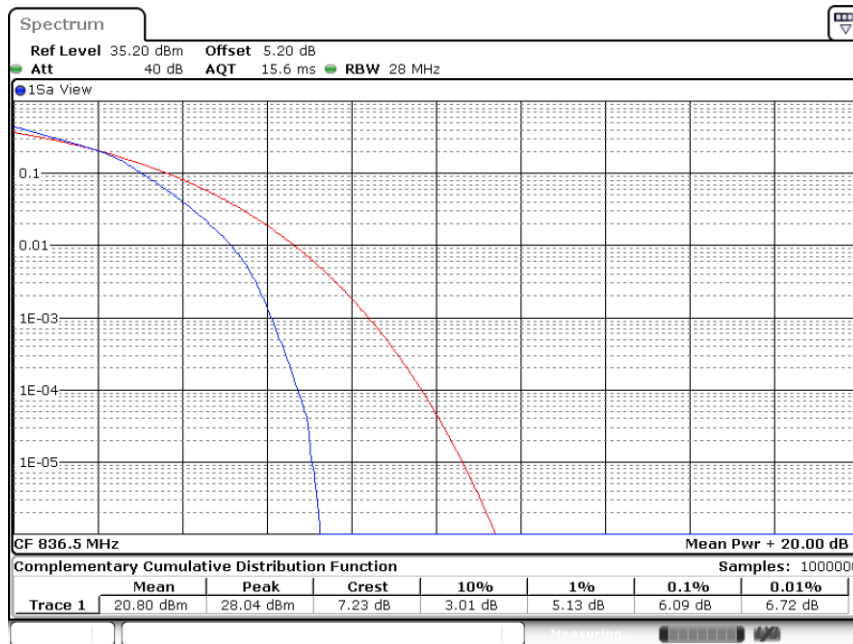
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Band5-10MHz-16QAM-20450-50RB#0



Date: 28.MAY.2021 10:51:21

Band5-10MHz-16QAM-20525-50RB#0



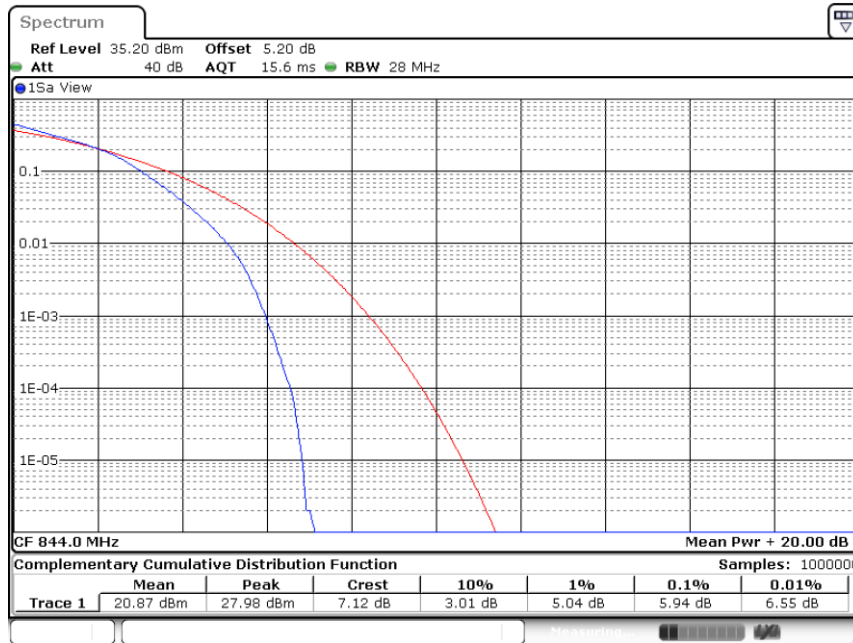
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Band5-10MHz-16QAM-20600-50RB#0



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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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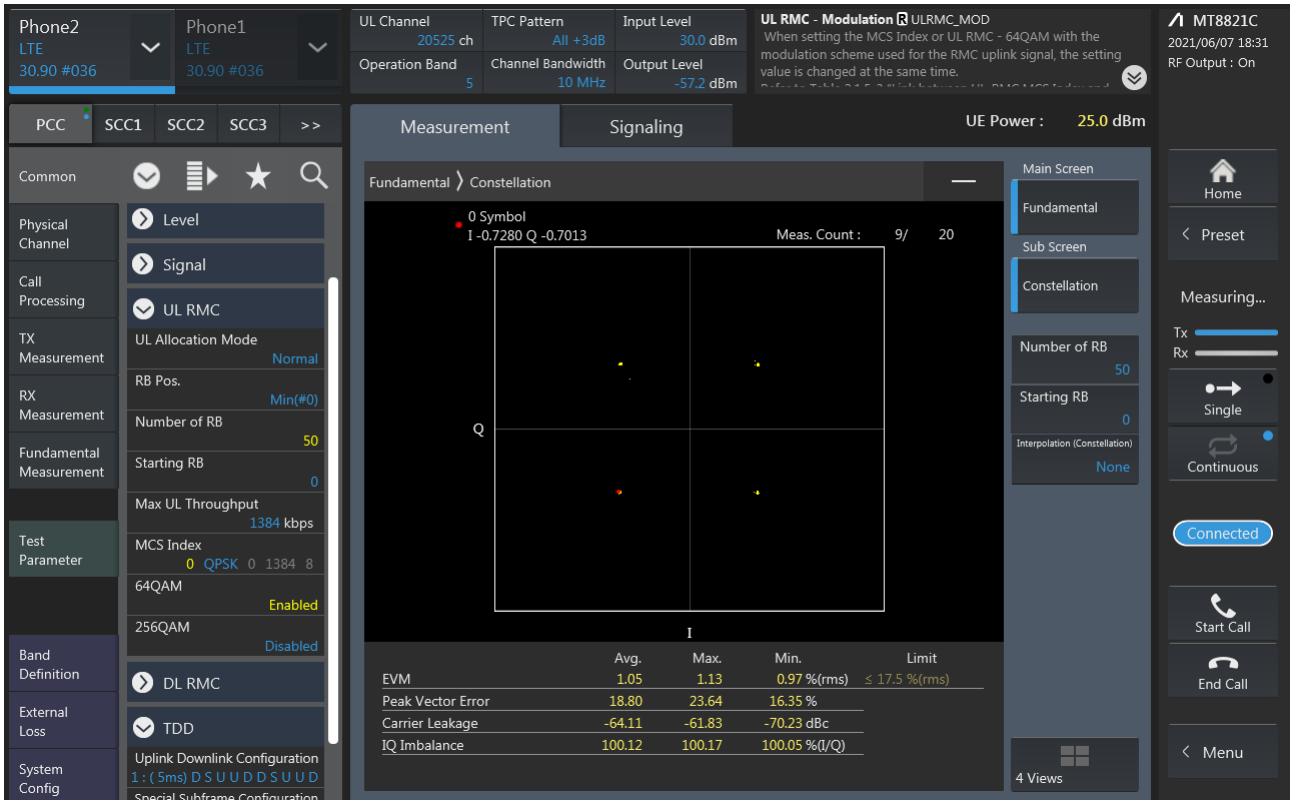
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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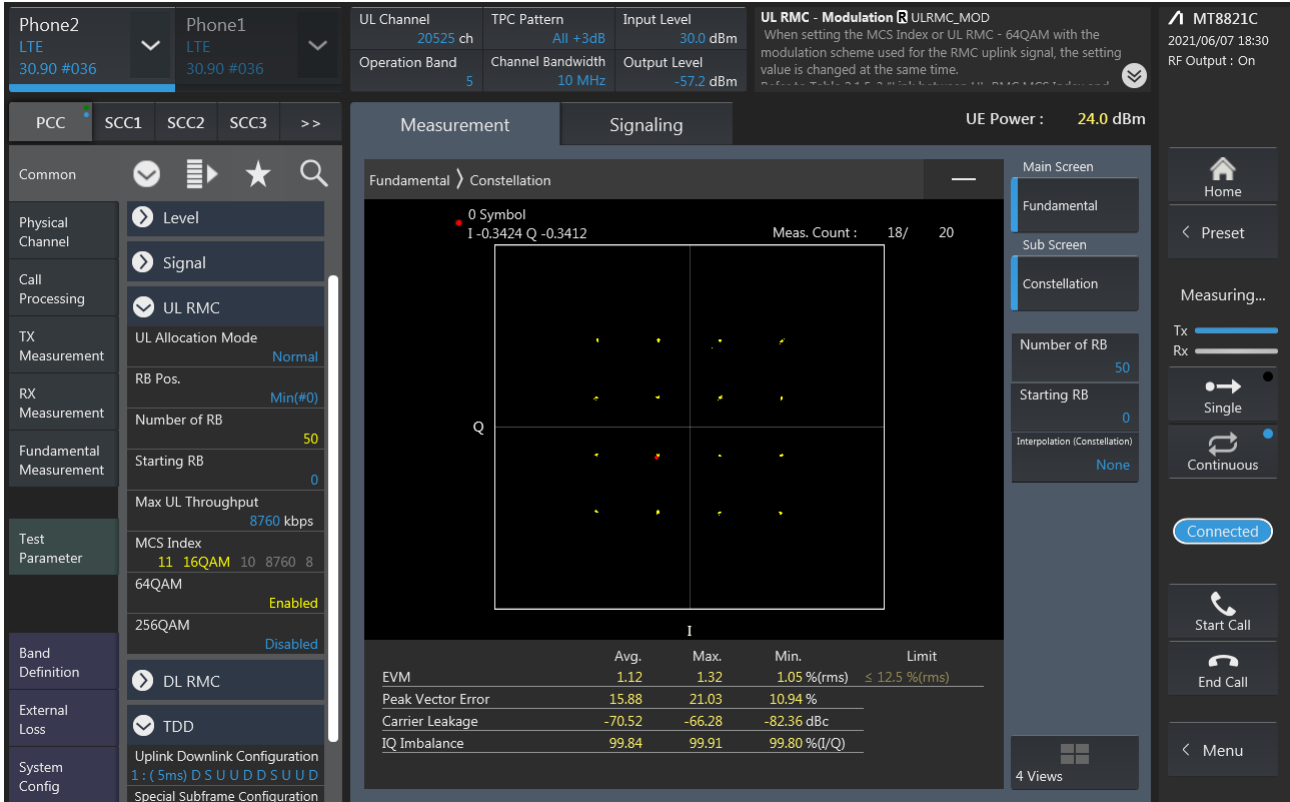
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3.2. Test Mode = LTE /TM2 10MHz

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
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.299	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.988	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.703	3.000	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.982	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.988	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.982	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.940	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.940	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.920	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.920	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.720	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.720	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.740	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.740	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.720	PASS



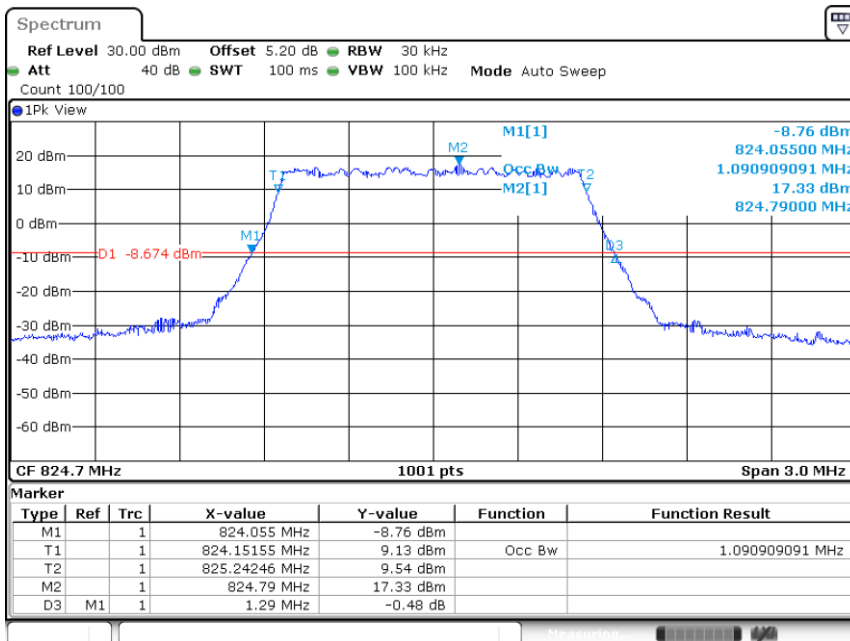
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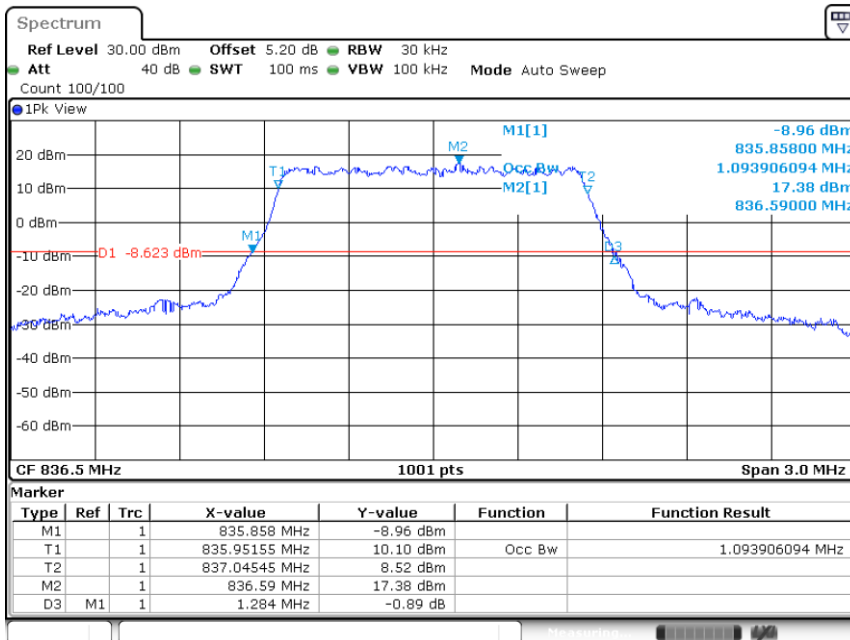
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



Date: 28.MAY.2021 10:27:44

Band5-1.4MHz-QPSK-20525-6RB#0-1.094



Date: 28.MAY.2021 10:28:24

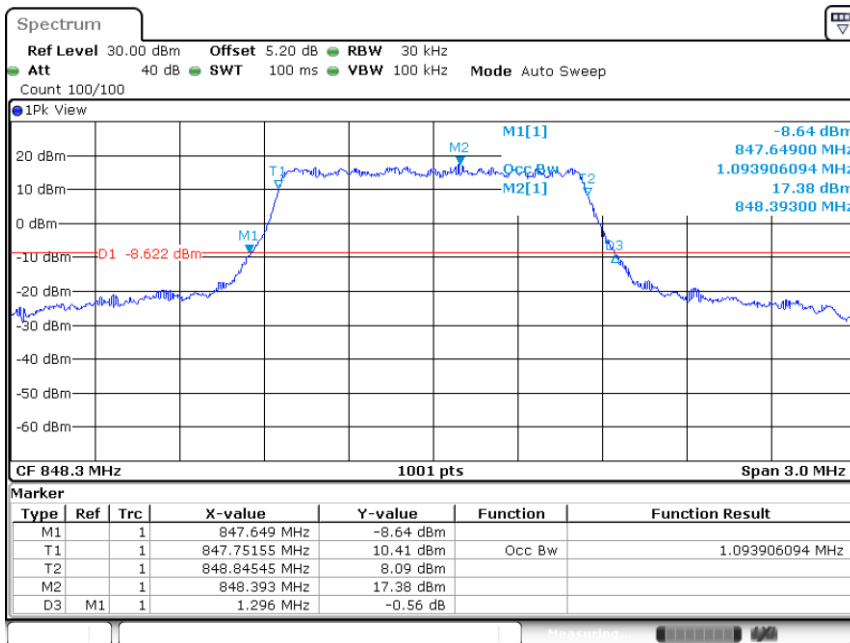


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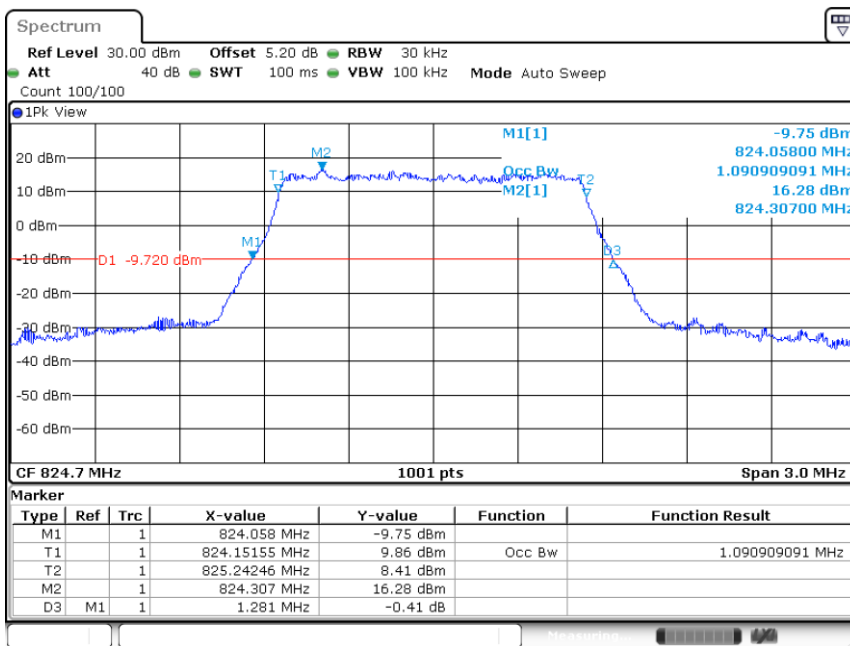
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Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 28.MAY.2021 10:29:04

Band5-1.4MHz-16QAM-20407-6RB#0-1.091

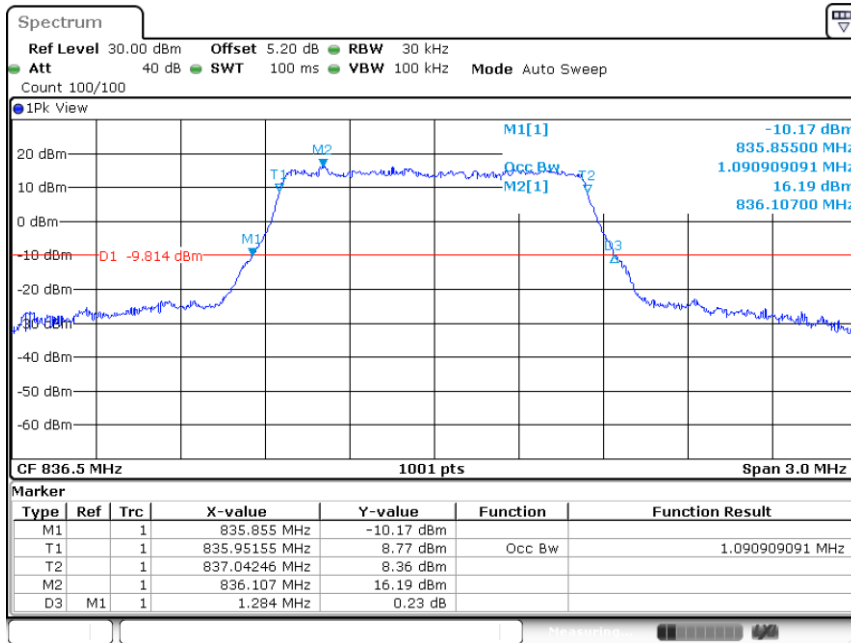


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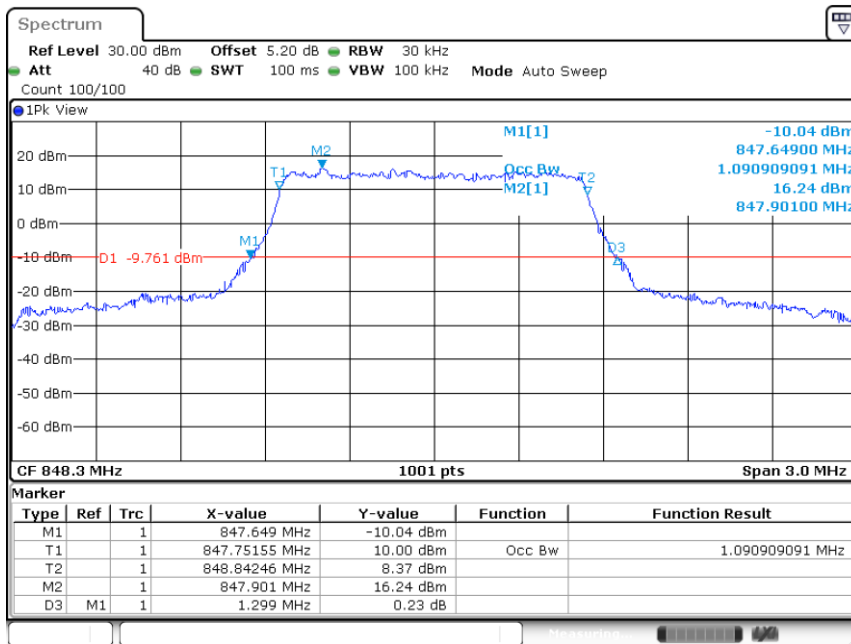
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Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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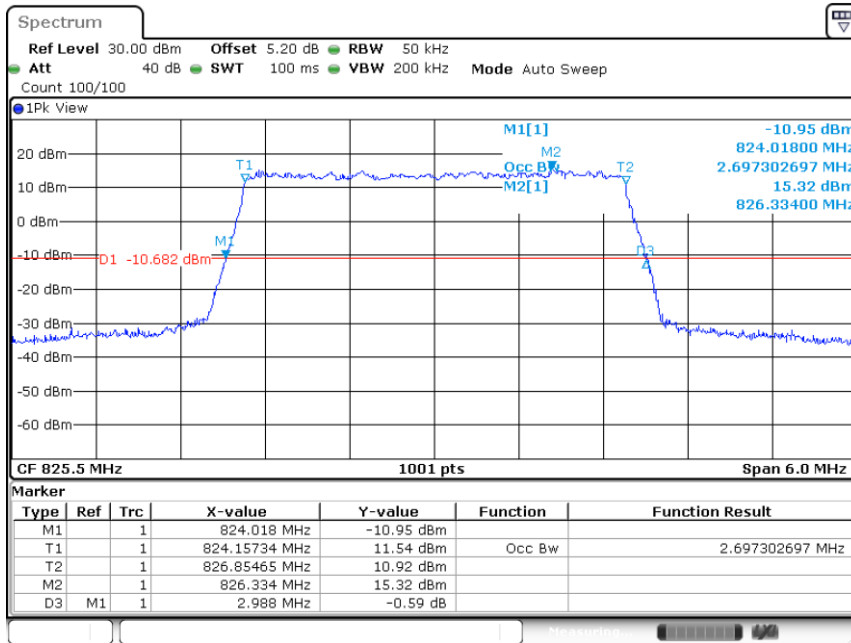
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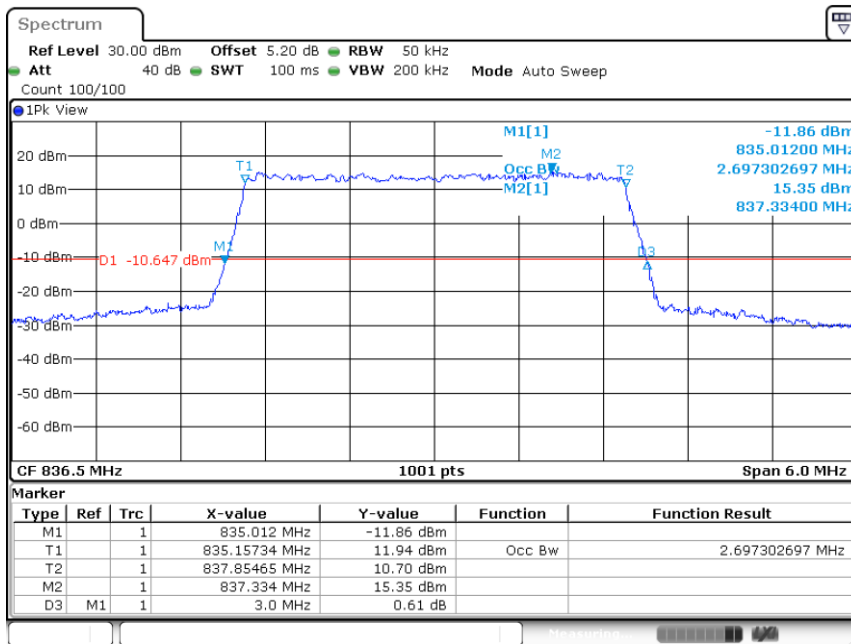


Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 28.MAY.2021 10:29:49

Band5-3MHz-QPSK-20525-15RB#0-2.697



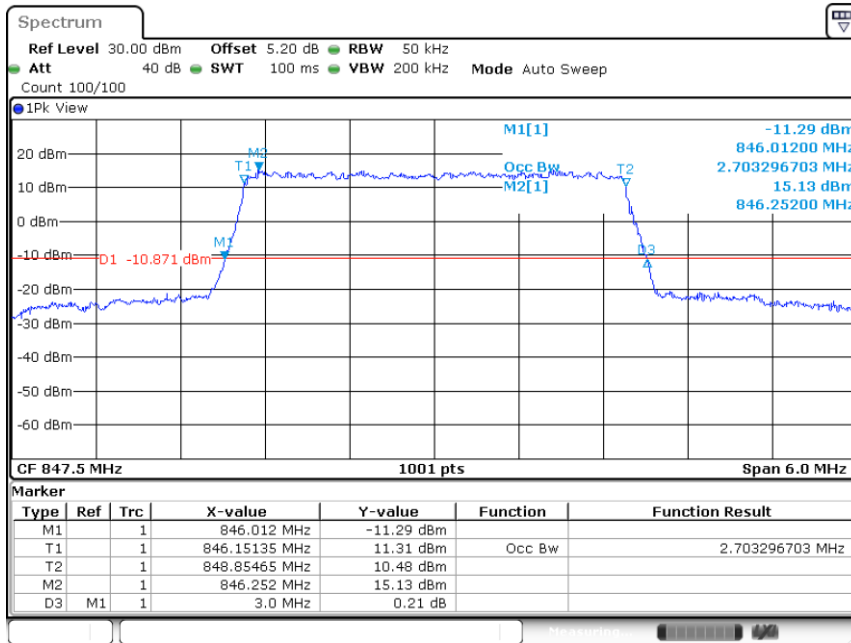
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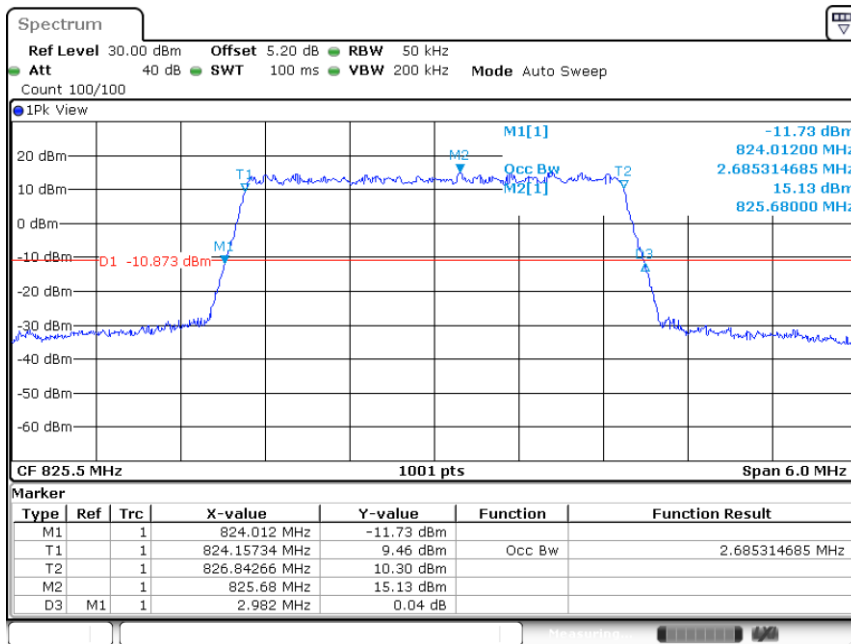


Band5-3MHz-QPSK-20635-15RB#0-2.703



Date: 28 MAY 2021 10:31:09

Band5-3MHz-16QAM-20415-15RB#0-2.685

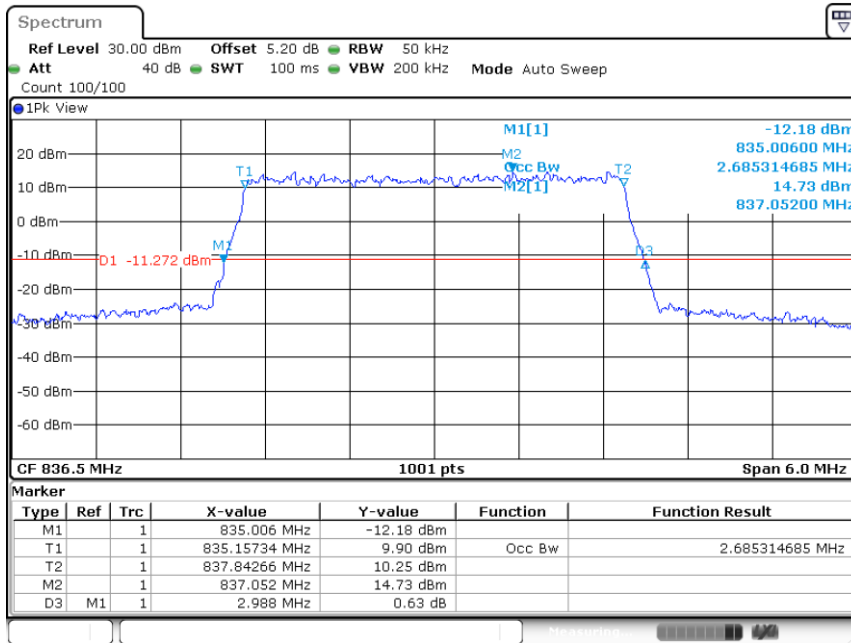


Date: 28 MAY 2021 10:30:09



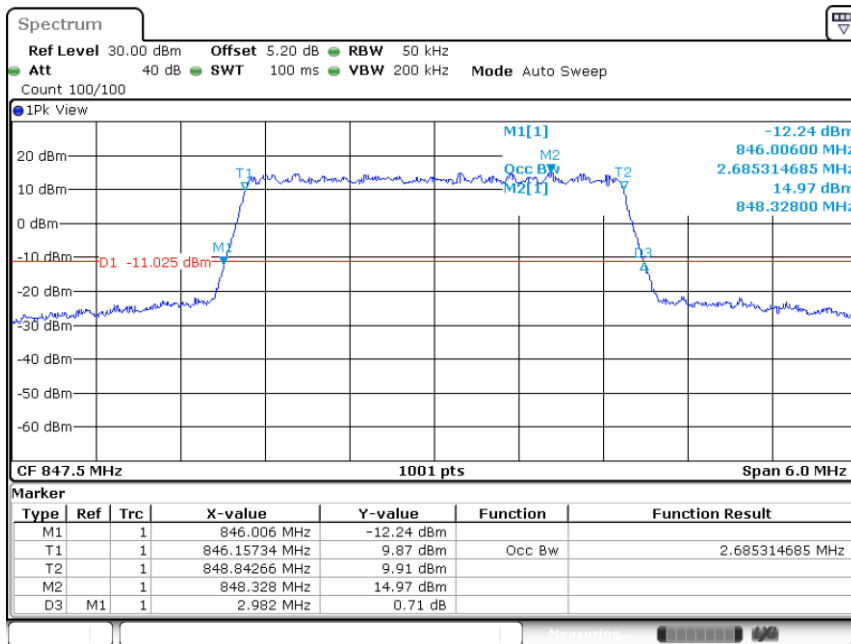
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Band5-3MHz-16QAM-20525-15RB#0-2.685



Date: 28.MAY.2021 10:30:49

Band5-3MHz-16QAM-20635-15RB#0-2.685

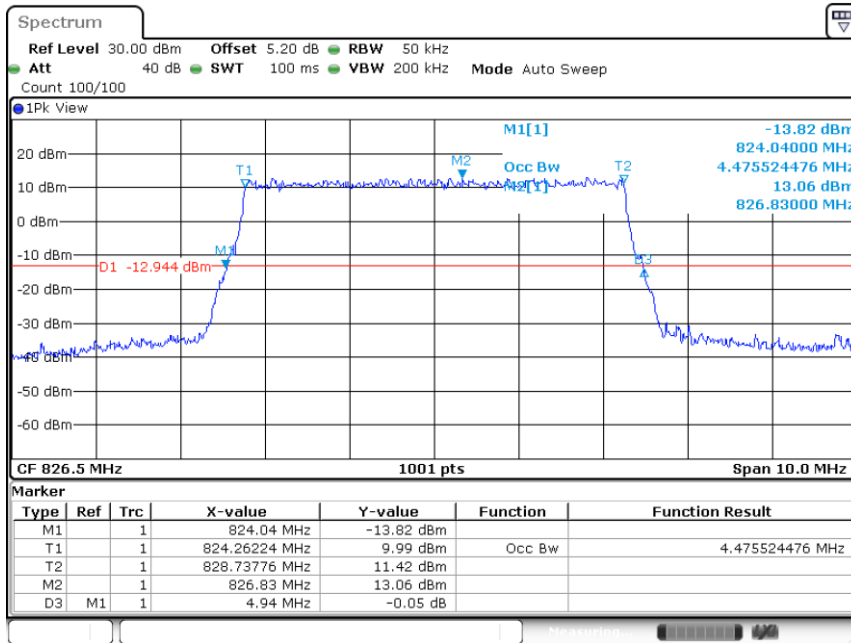


Date: 28.MAY.2021 10:31:28



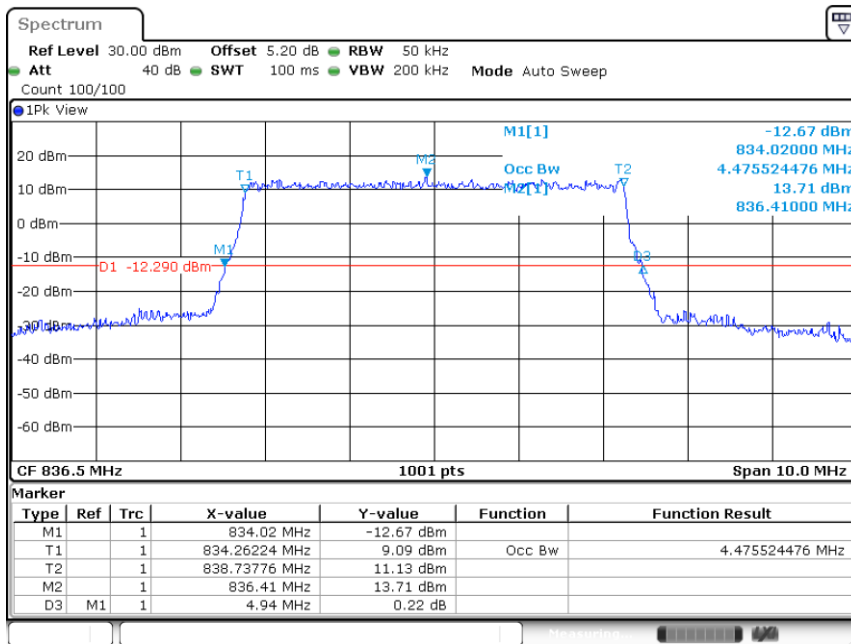
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Band5-5MHz-QPSK-20425-25RB#0-4.476



Date: 28.MAY.2021 10:31:54

Band5-5MHz-QPSK-20525-25RB#0-4.476

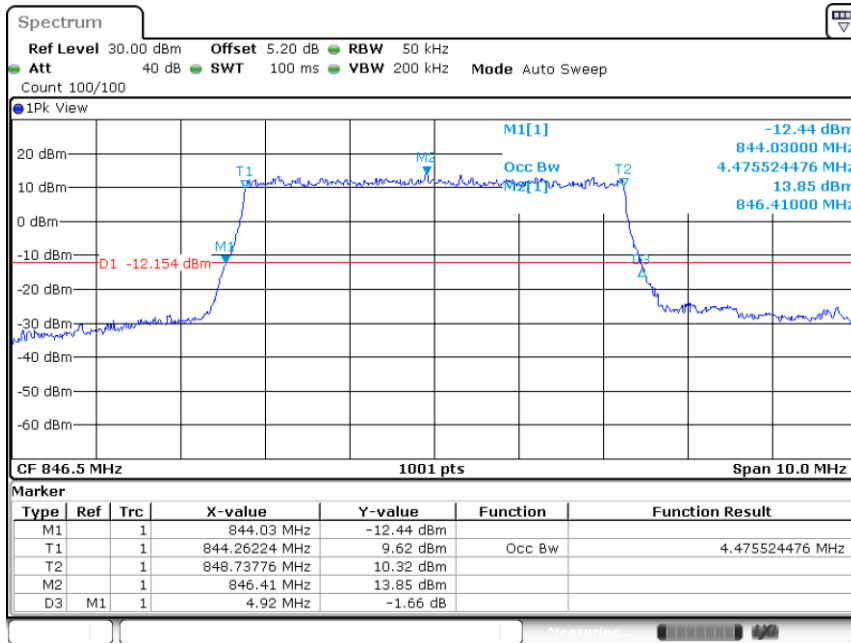


Date: 28.MAY.2021 10:32:34



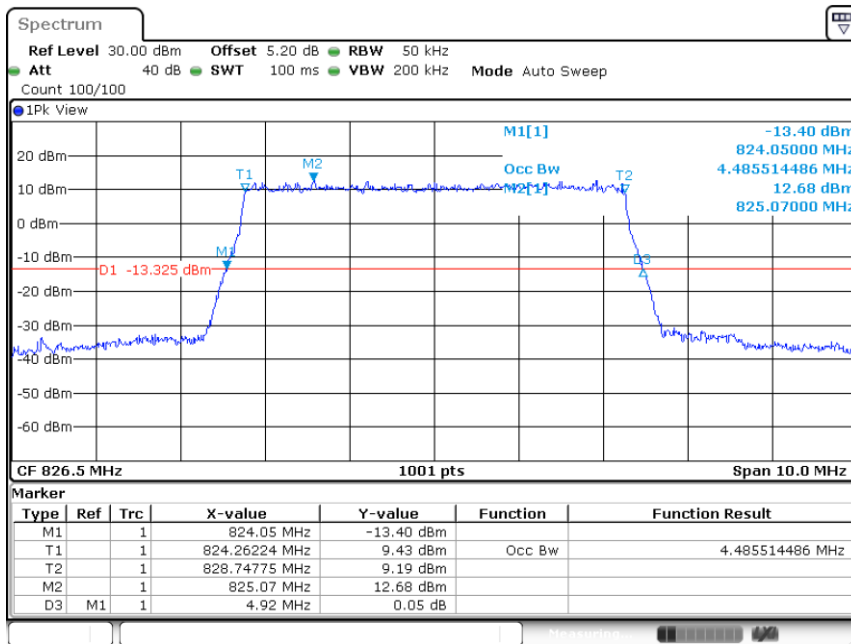
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Band5-5MHz-QPSK-20625-25RB#0-4.476



Date: 28 MAY 2021 10:33:15

Band5-5MHz-16QAM-20425-25RB#0-4.486

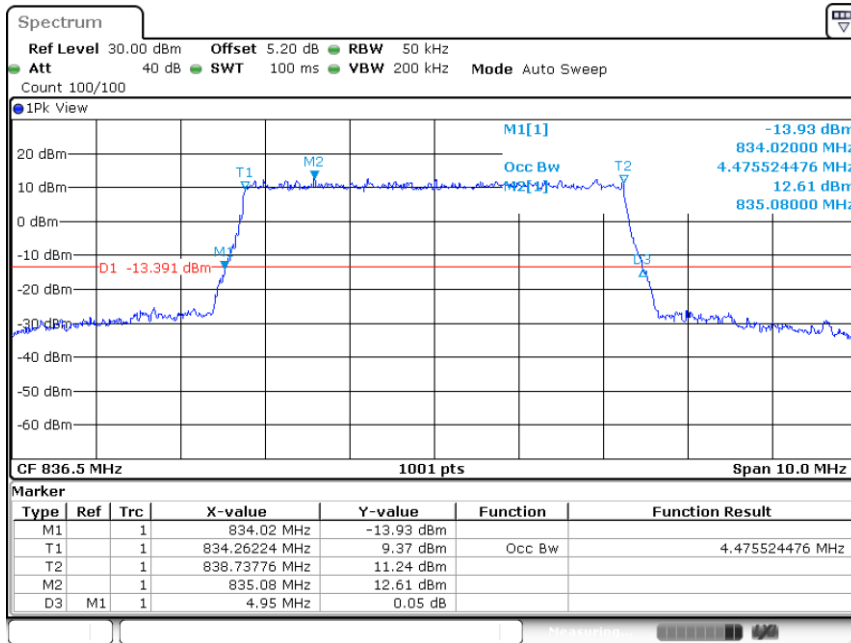


Date: 28 MAY 2021 10:32:14



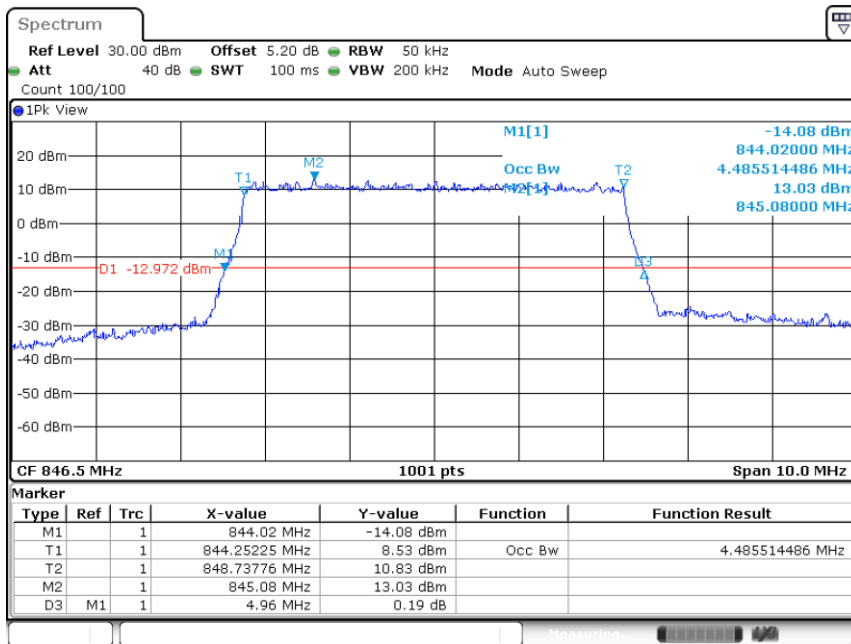
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Band5-5MHz-16QAM-20525-25RB#0-4.476



Date: 28.MAY.2021 10:32:54

Band5-5MHz-16QAM-20625-25RB#0-4.486

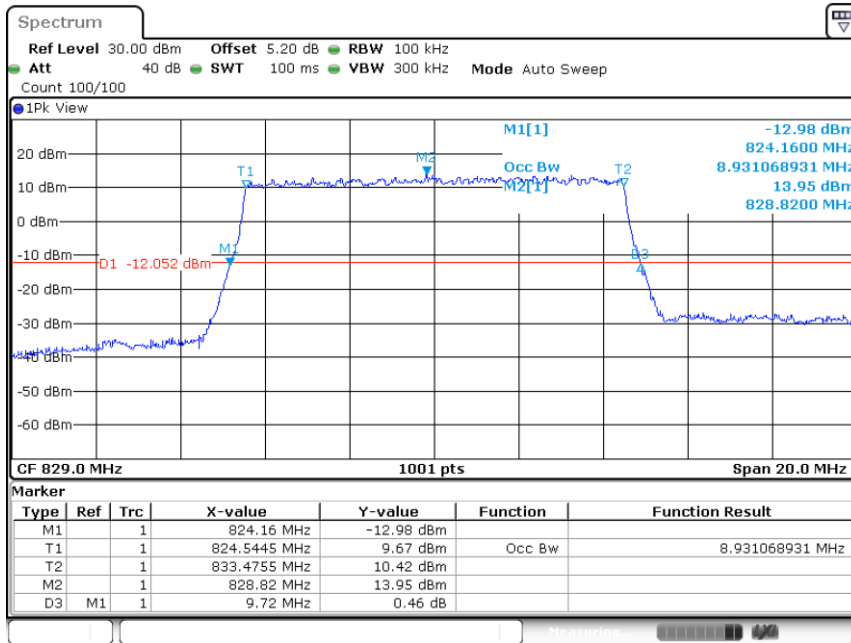


Date: 28.MAY.2021 10:33:34



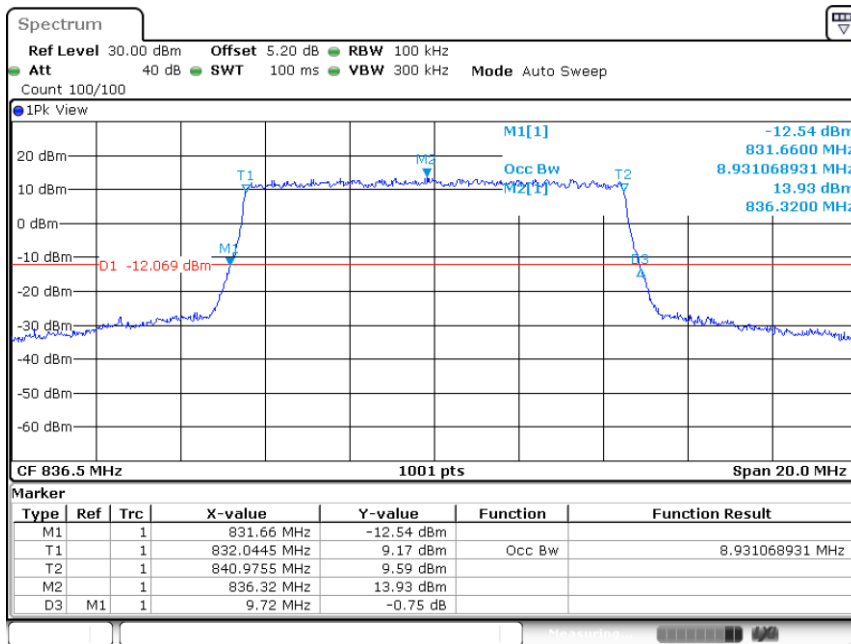
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Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 28.MAY.2021 10:34:00

Band5-10MHz-QPSK-20525-50RB#0-8.931

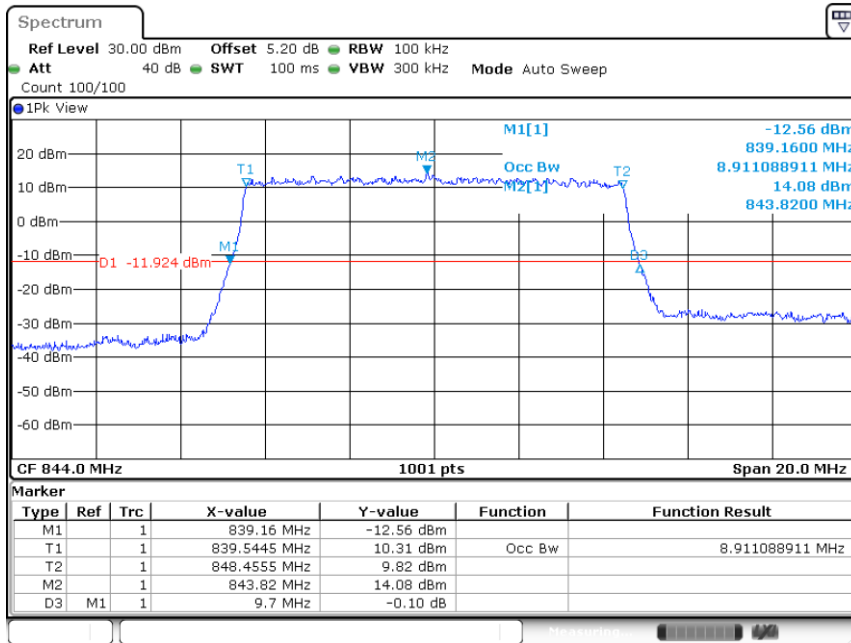


Date: 28.MAY.2021 10:34:40



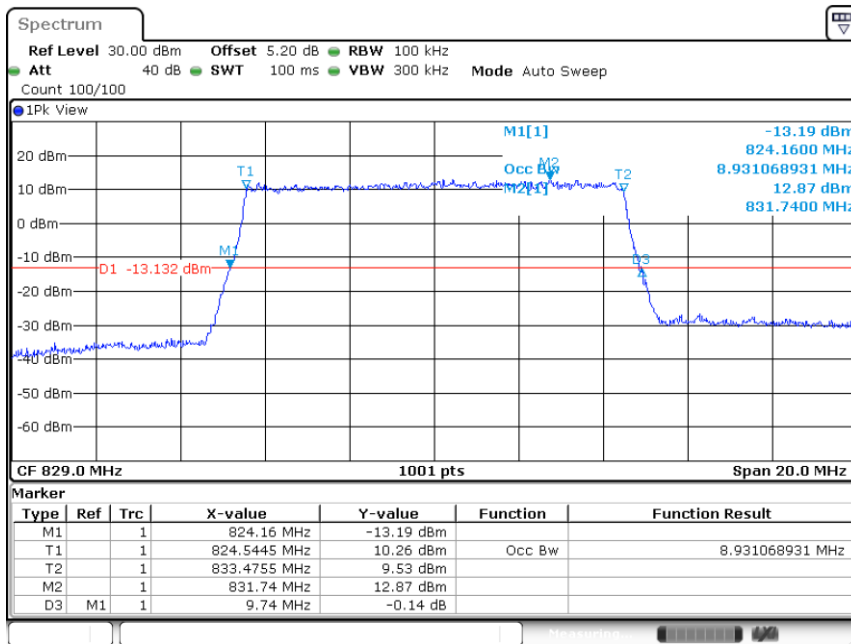
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Band5-10MHz-QPSK-20600-50RB#0-8.911



Date: 28.MAY.2021 10:35:19

Band5-10MHz-16QAM-20450-50RB#0-8.931

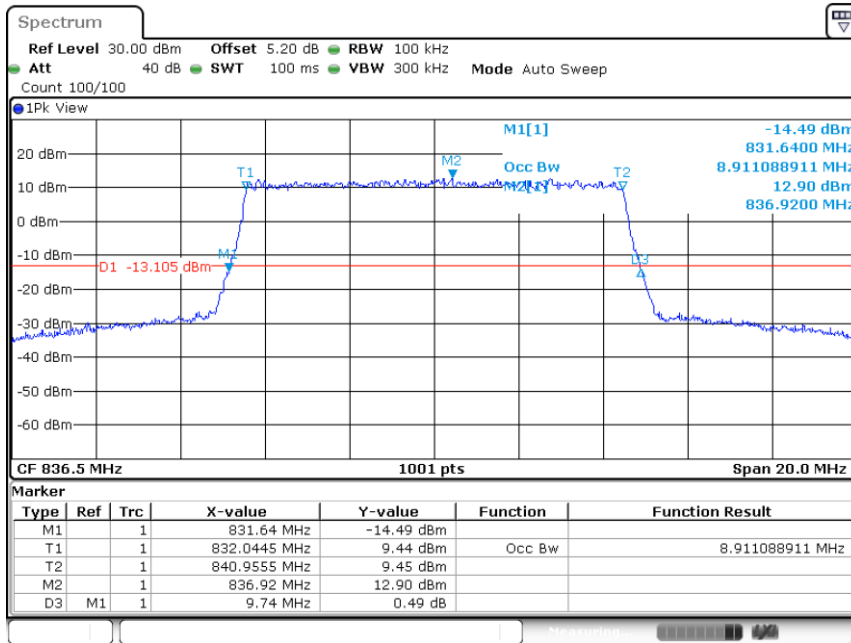


Date: 28.MAY.2021 10:34:20



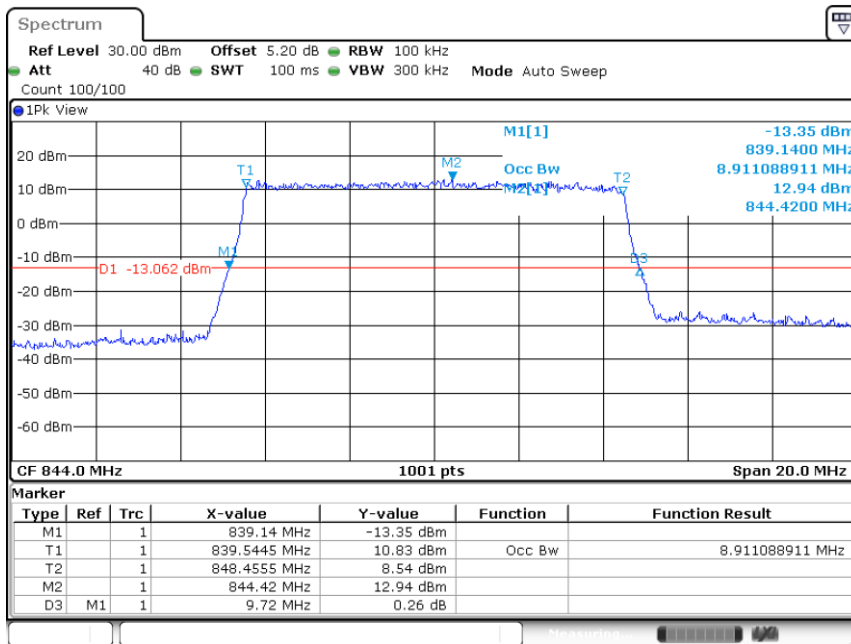
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Band5-10MHz-16QAM-20525-50RB#0-8.911



Date: 28.MAY.2021 10:34:59

Band5-10MHz-16QAM-20600-50RB#0-8.911



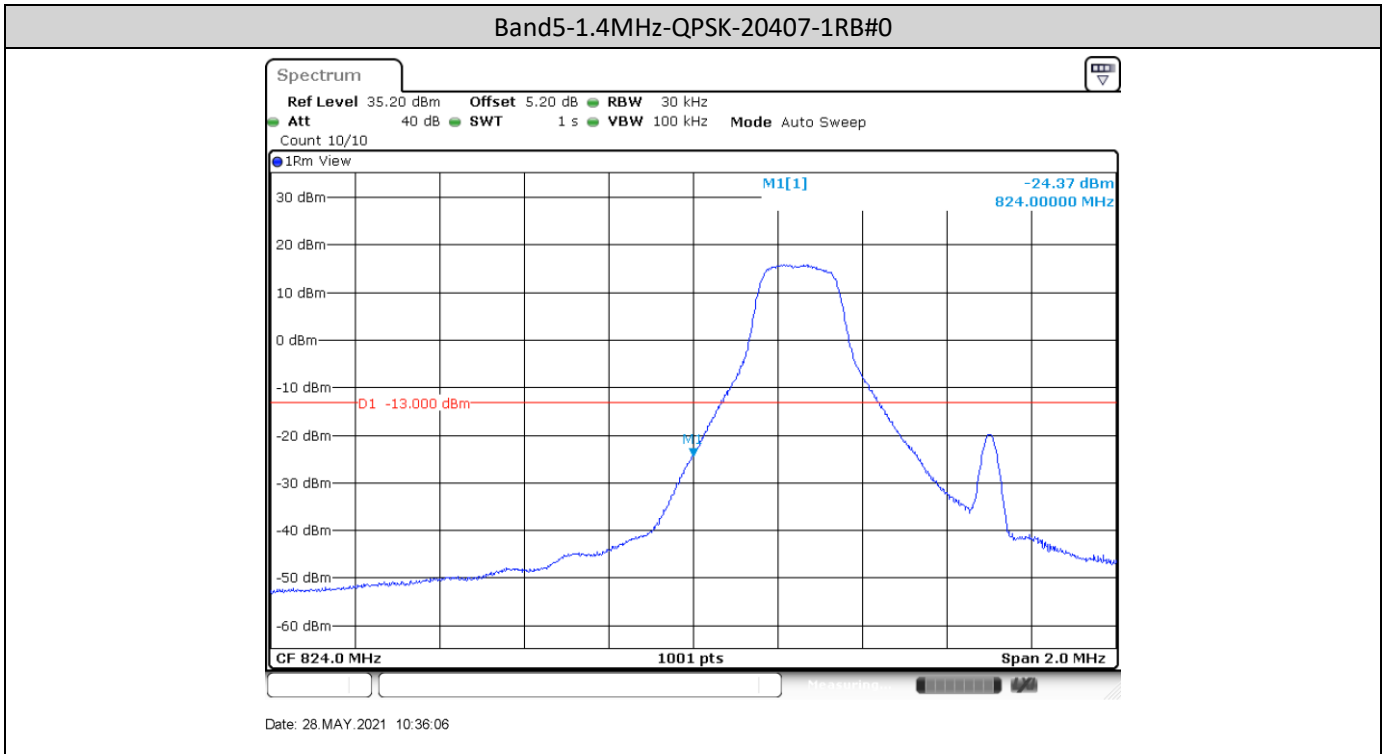
Date: 28.MAY.2021 10:35:39



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5. Band Edge Compliance

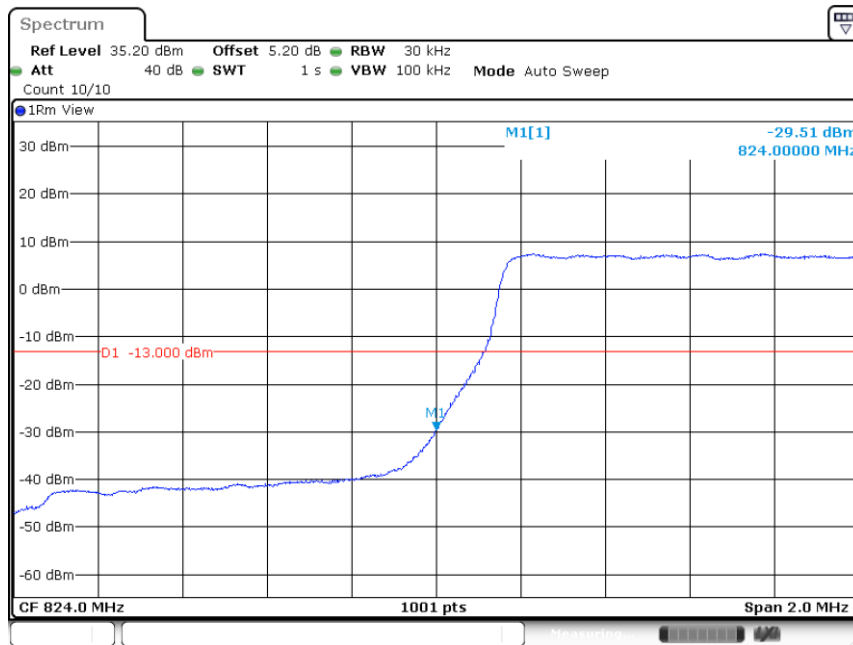
5.1. Test Plots



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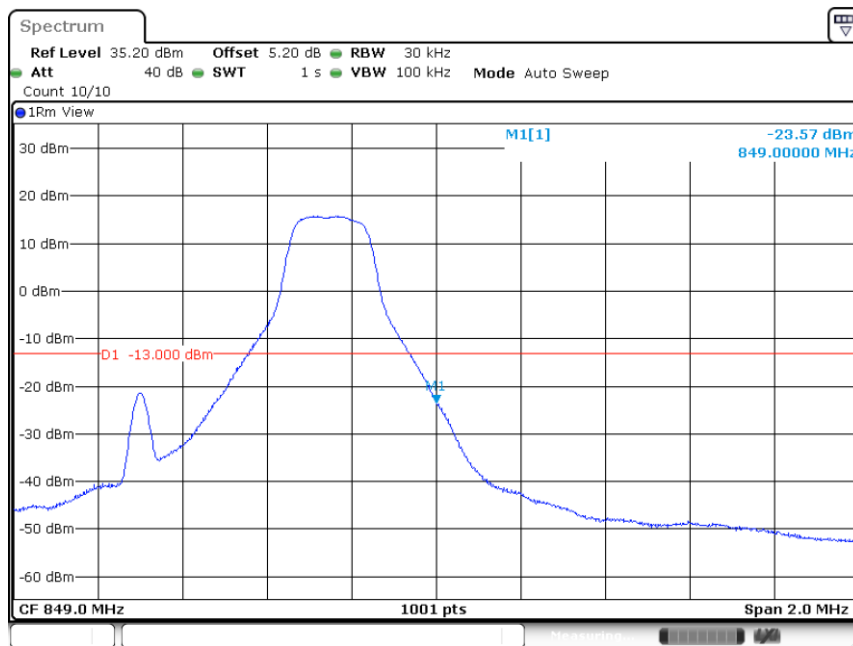
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Band5-1.4MHz-QPSK-20407-6RB#0



Date: 28.MAY.2021 10:36:47

Band5-1.4MHz-QPSK-20643-1RB#5

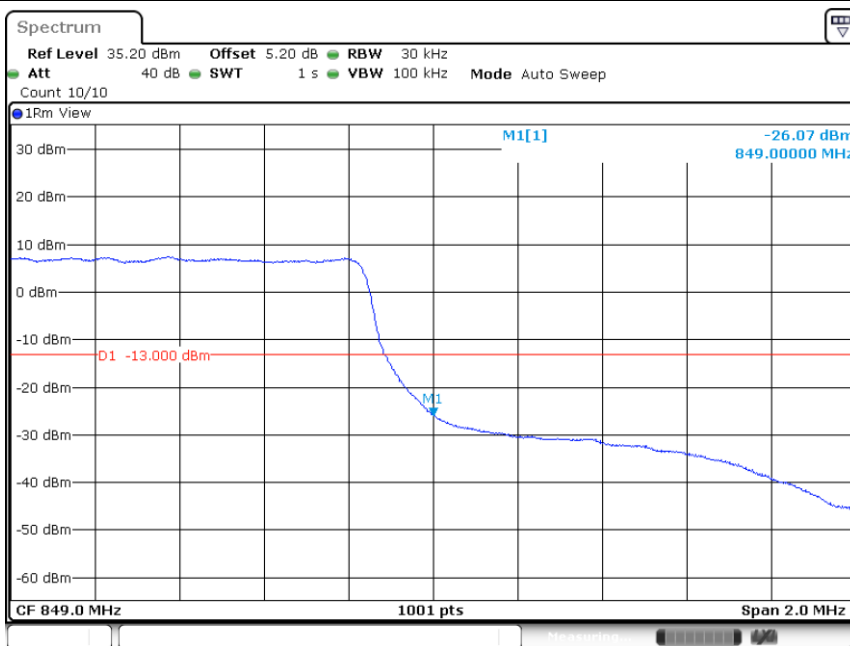


Date: 28.MAY.2021 10:37:33



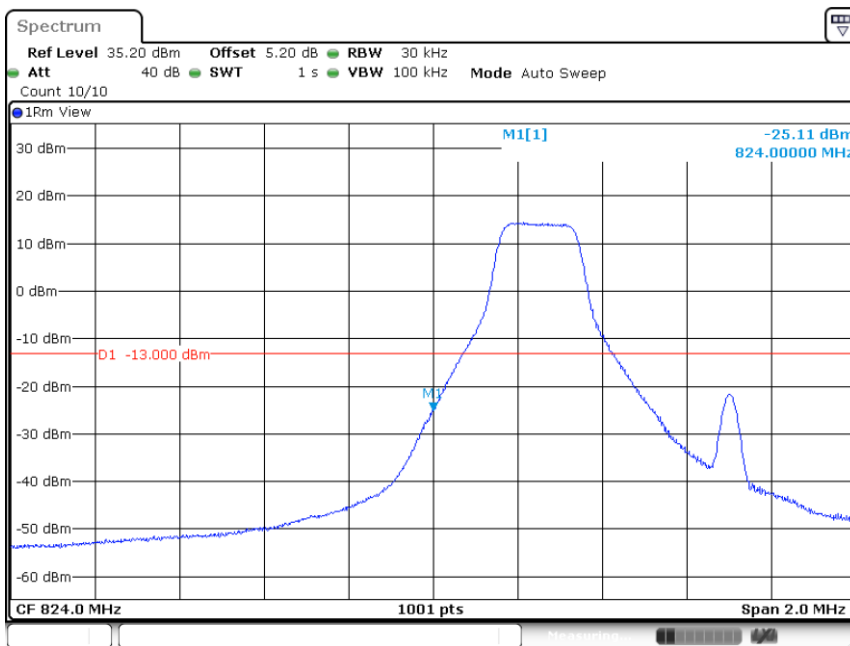
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Band5-1.4MHz-QPSK-20643-6RB#0



Date: 28.MAY.2021 10:38:14

Band5-1.4MHz-16QAM-20407-1RB#0



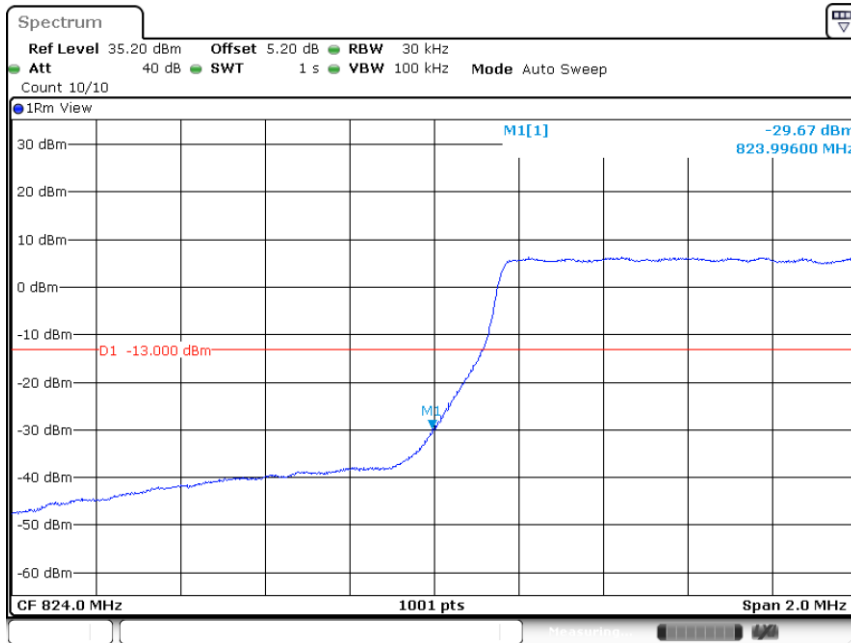
Date: 28.MAY.2021 10:36:27



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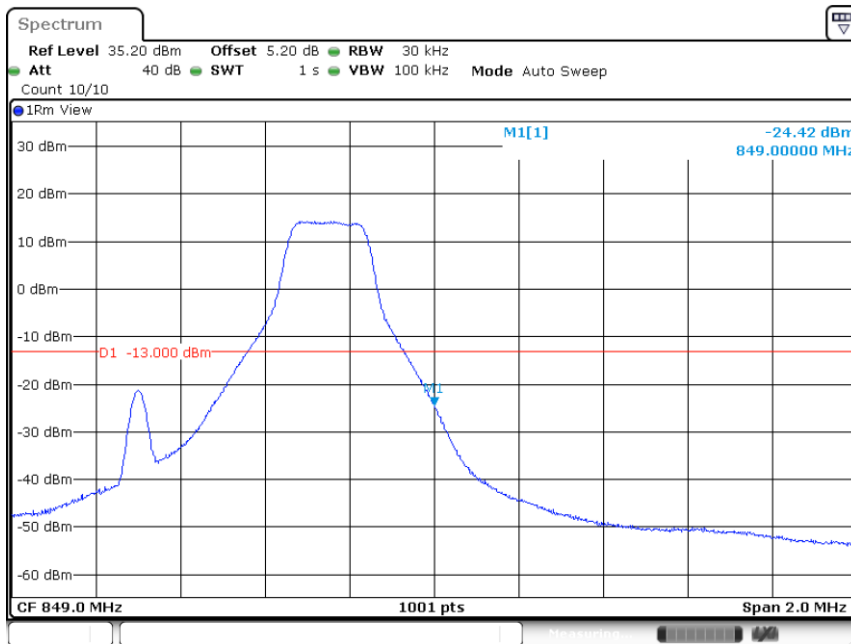
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Band5-1.4MHz-16QAM-20407-6RB#0



Date: 28.MAY.2021 10:37:08

Band5-1.4MHz-16QAM-20643-1RB#5

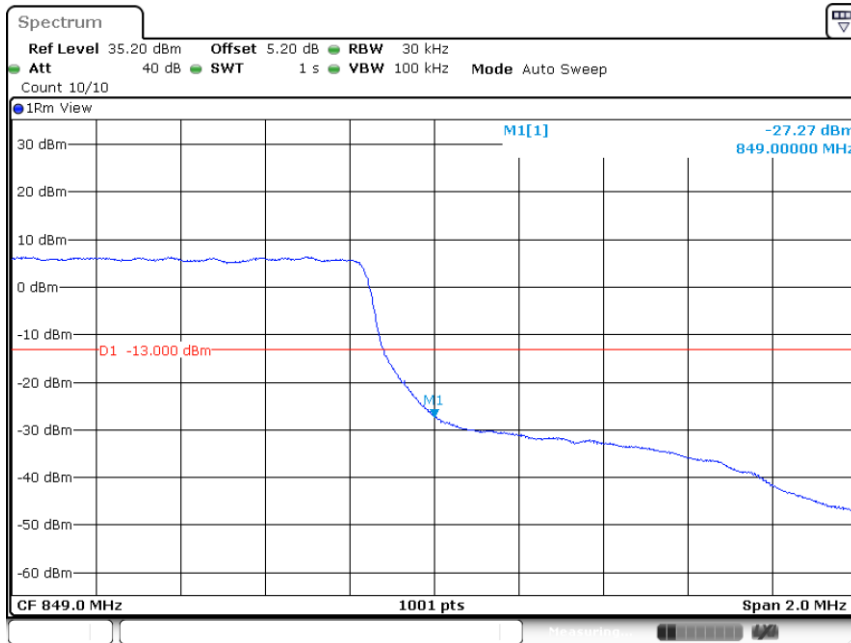


Date: 28.MAY.2021 10:37:53



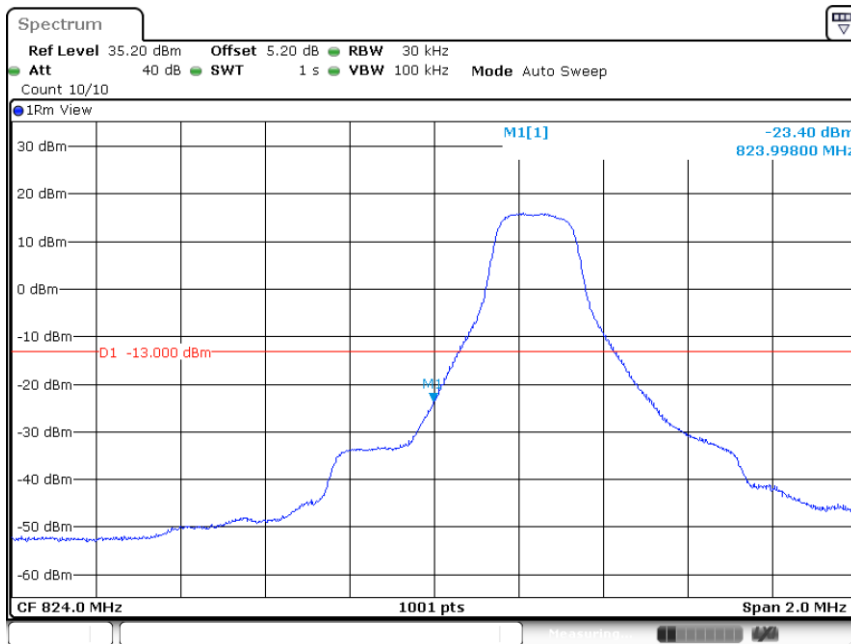
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Band5-1.4MHz-16QAM-20643-6RB#0



Date: 28.MAY.2021 10:38:34

Band5-3MHz-QPSK-20415-1RB#0

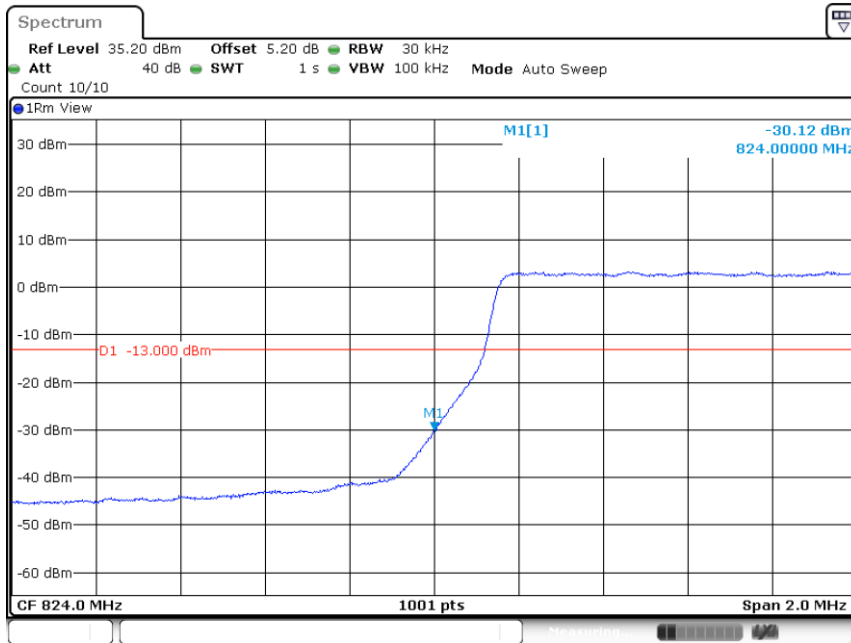


Date: 28.MAY.2021 10:39:01



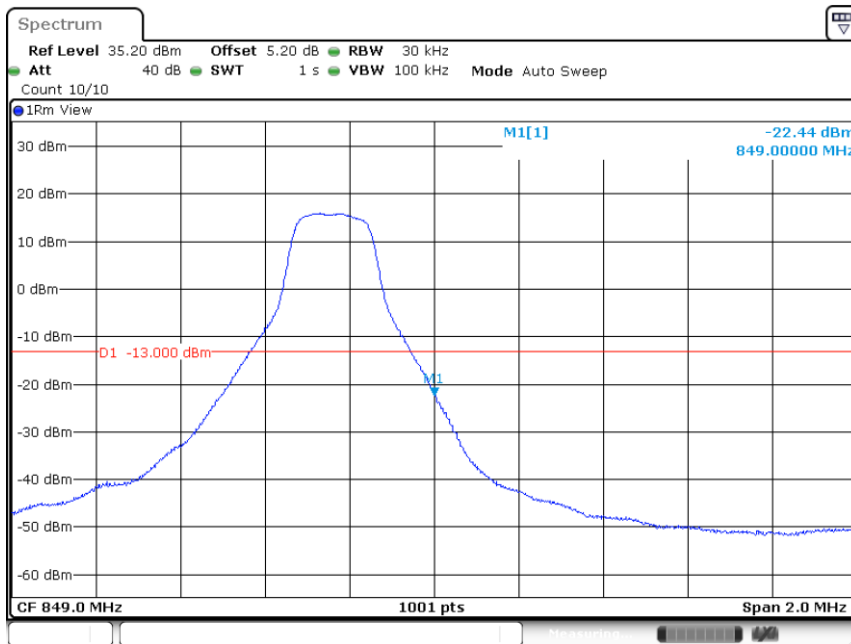
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Band5-3MHz-QPSK-20415-15RB#0



Date: 28.MAY.2021 10:39:42

Band5-3MHz-QPSK-20635-1RB#14



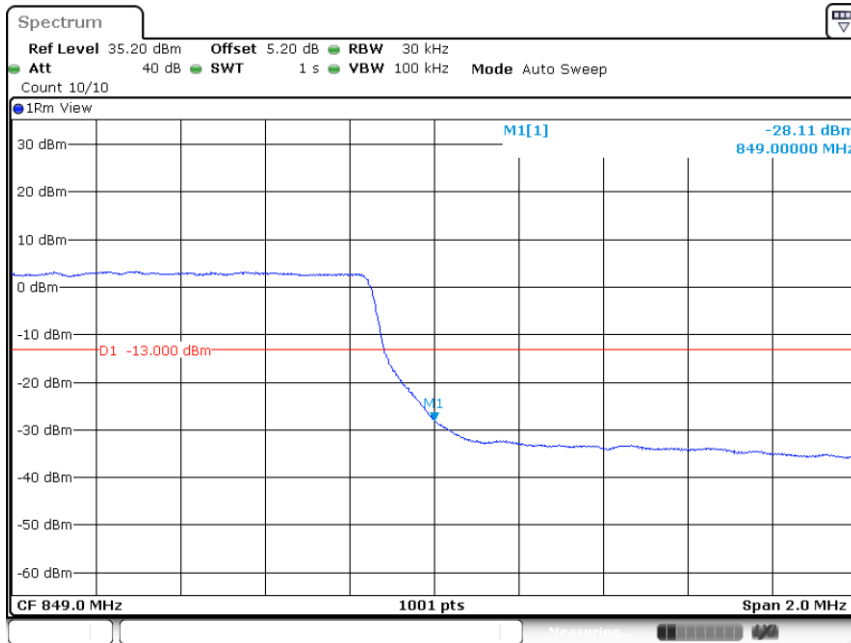
Date: 28.MAY.2021 10:40:27



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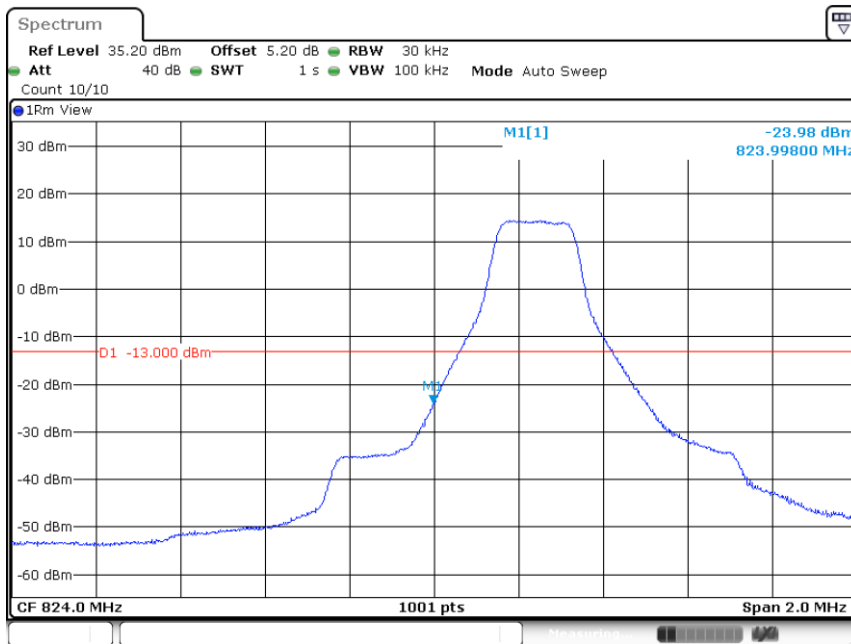
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Band5-3MHz-QPSK-20635-15RB#0



Date: 28.MAY.2021 10:41:08

Band5-3MHz-16QAM-20415-1RB#0



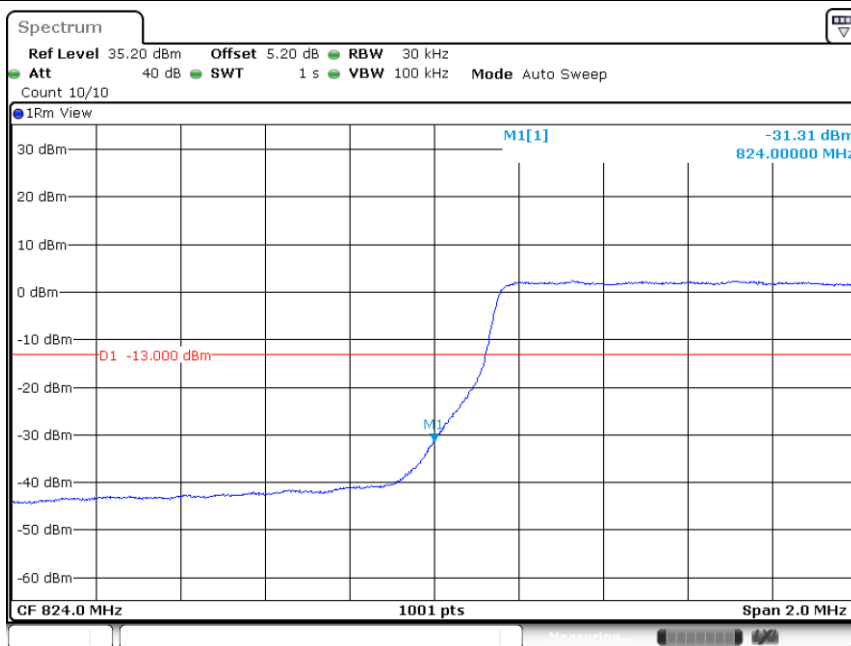
Date: 28.MAY.2021 10:39:22



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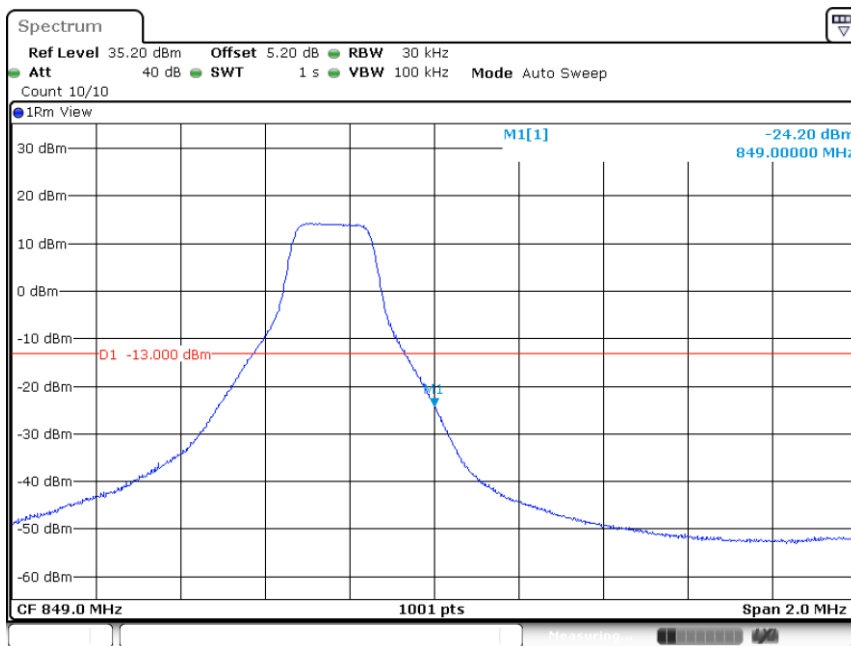
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Band5-3MHz-16QAM-20415-15RB#0



Date: 28.MAY.2021 10:40:03

Band5-3MHz-16QAM-20635-1RB#14

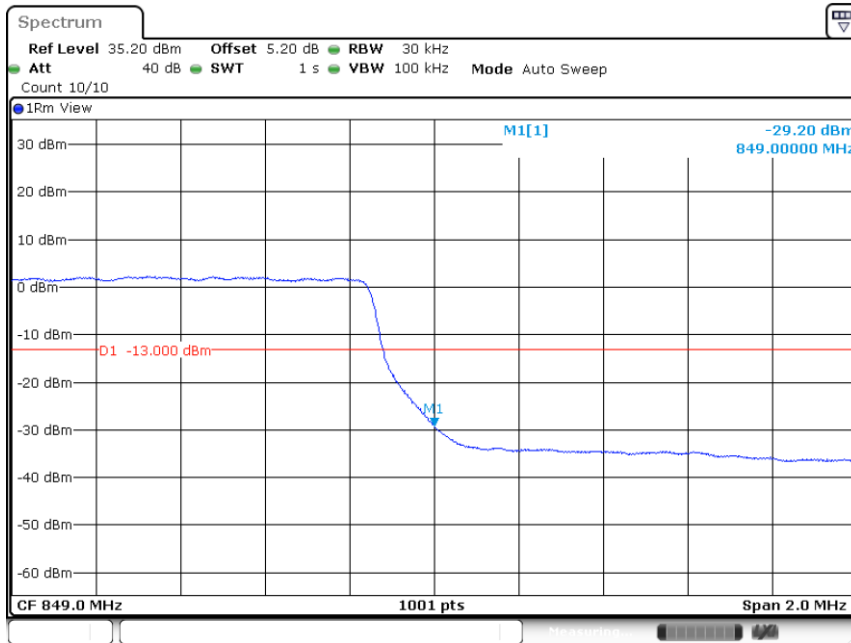


Date: 28.MAY.2021 10:40:48



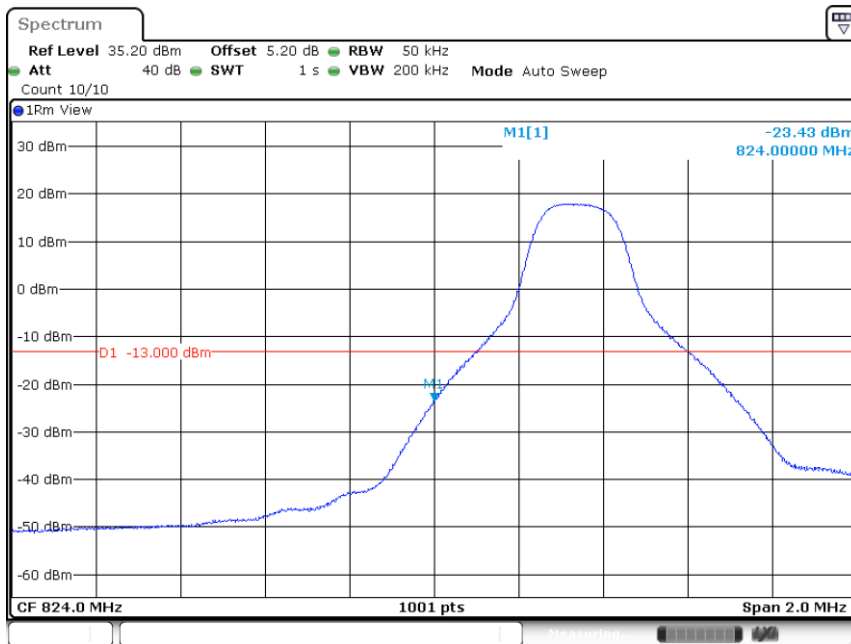
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Band5-3MHz-16QAM-20635-15RB#0



Date: 28.MAY.2021 10:41:29

Band5-5MHz-QPSK-20425-1RB#0



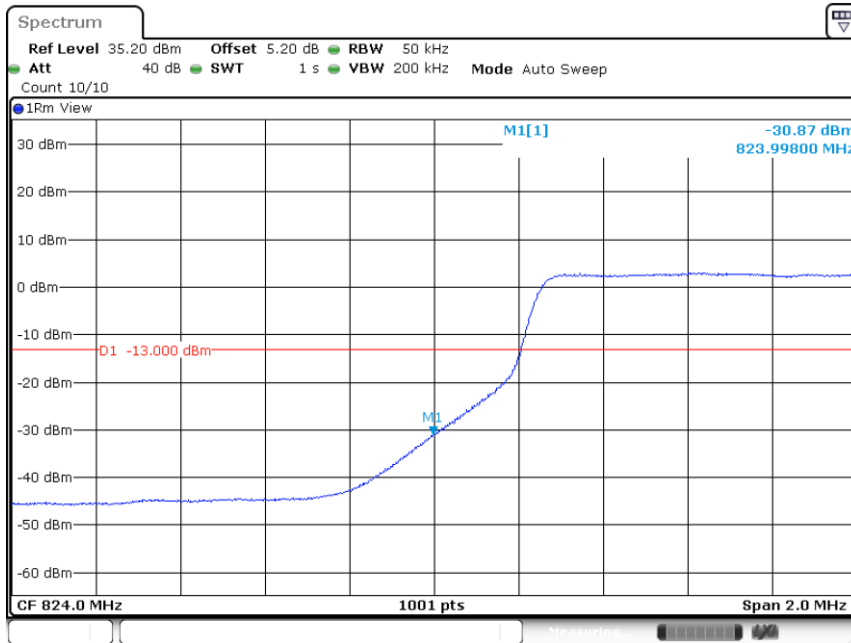
Date: 28.MAY.2021 10:41:55



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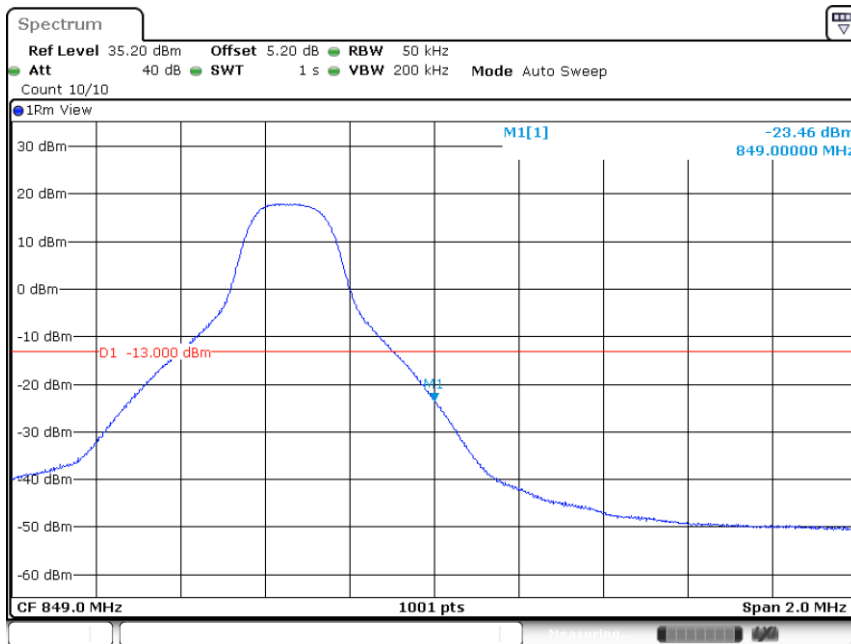
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Band5-5MHz-QPSK-20425-25RB#0



Date: 28.MAY.2021 10:42:37

Band5-5MHz-QPSK-20625-1RB#24



Date: 28.MAY.2021 10:43:22

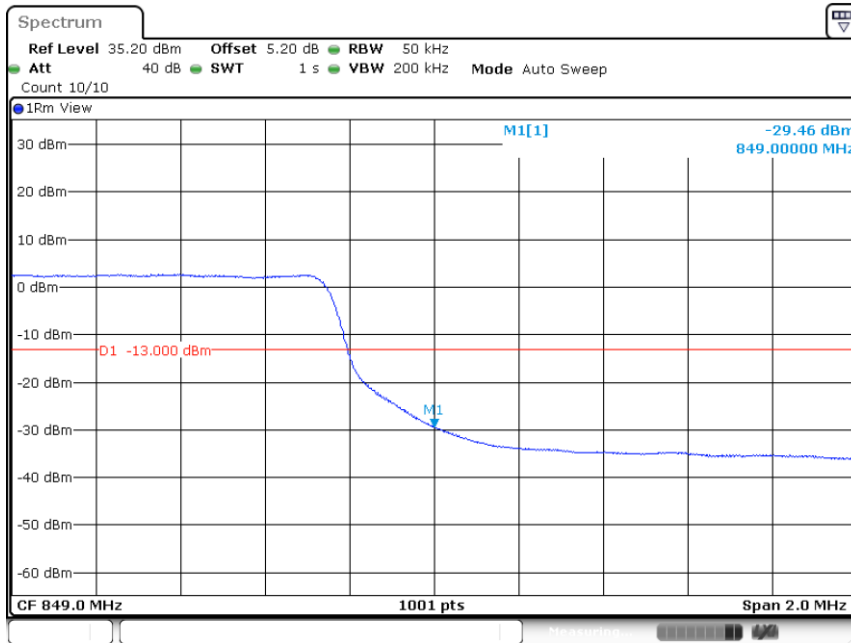


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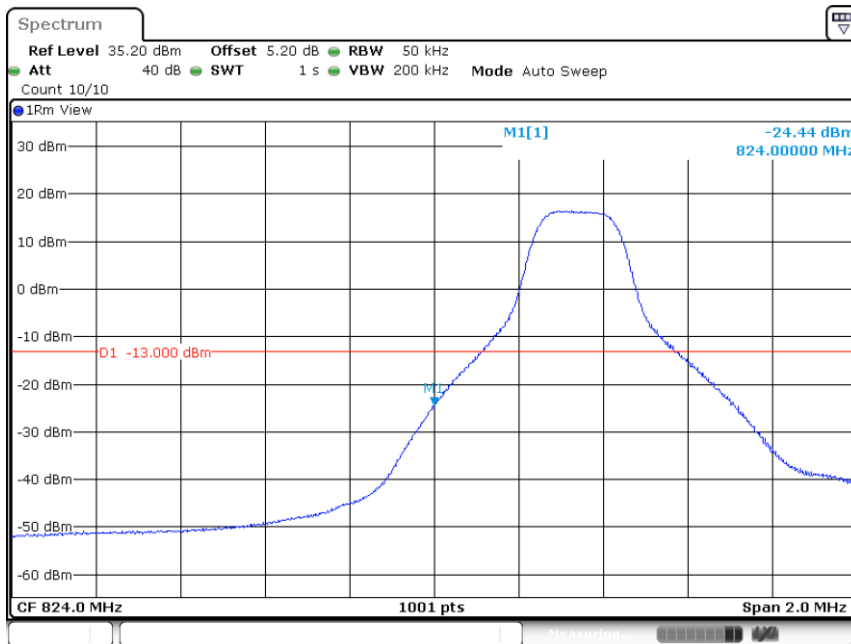
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Band5-5MHz-QPSK-20625-25RB#0



Date: 28.MAY.2021 10:44:03

Band5-5MHz-16QAM-20425-1RB#0

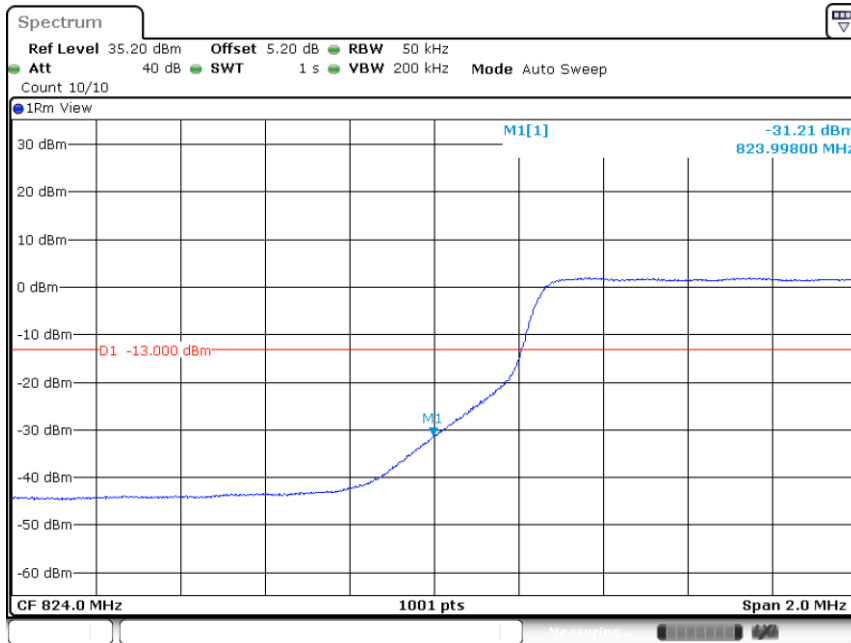


Date: 28.MAY.2021 10:42:16



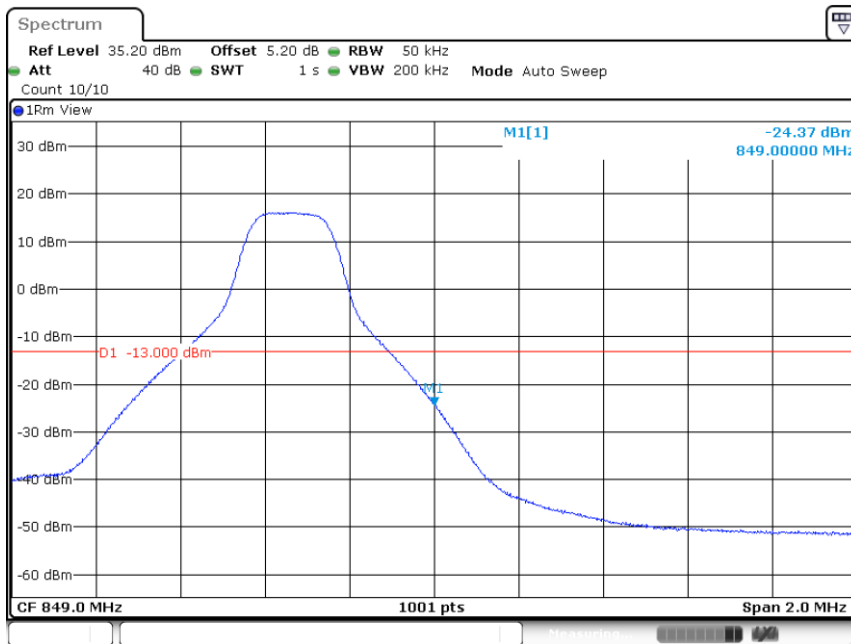
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Band5-5MHz-16QAM-20425-25RB#0



Date: 28.MAY.2021 10:42:57

Band5-5MHz-16QAM-20625-1RB#24

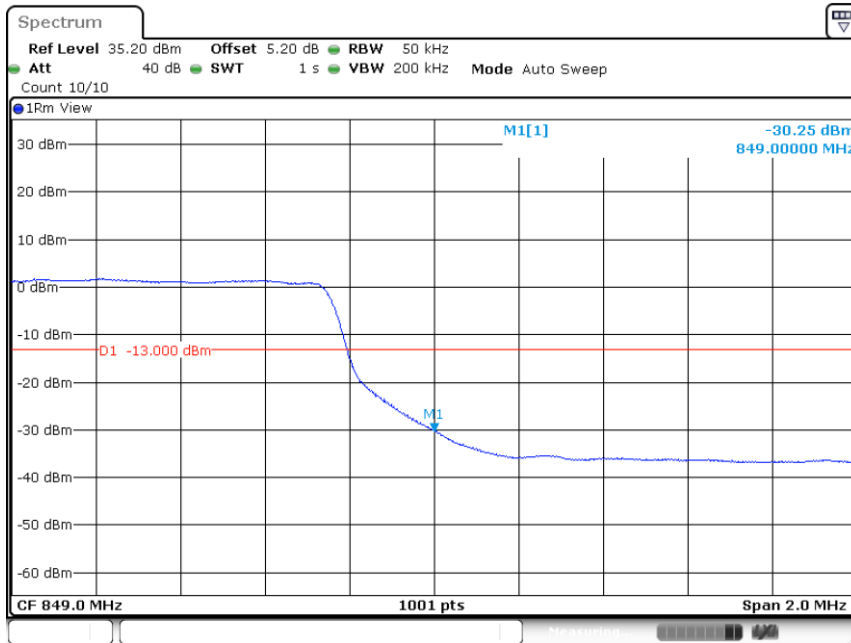


Date: 28.MAY.2021 10:43:43



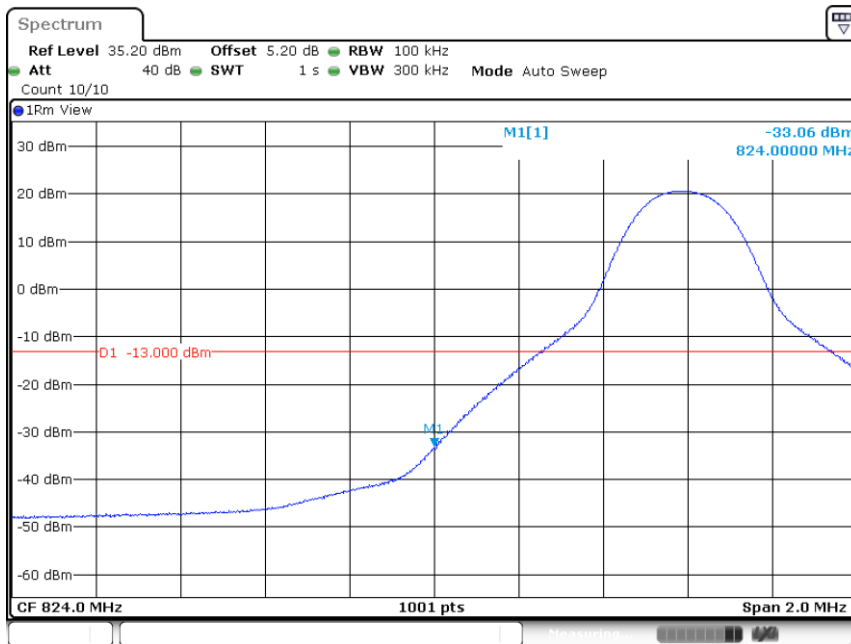
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Band5-5MHz-16QAM-20625-25RB#0



Date: 28.MAY.2021 10:44:24

Band5-10MHz-QPSK-20450-1RB#0

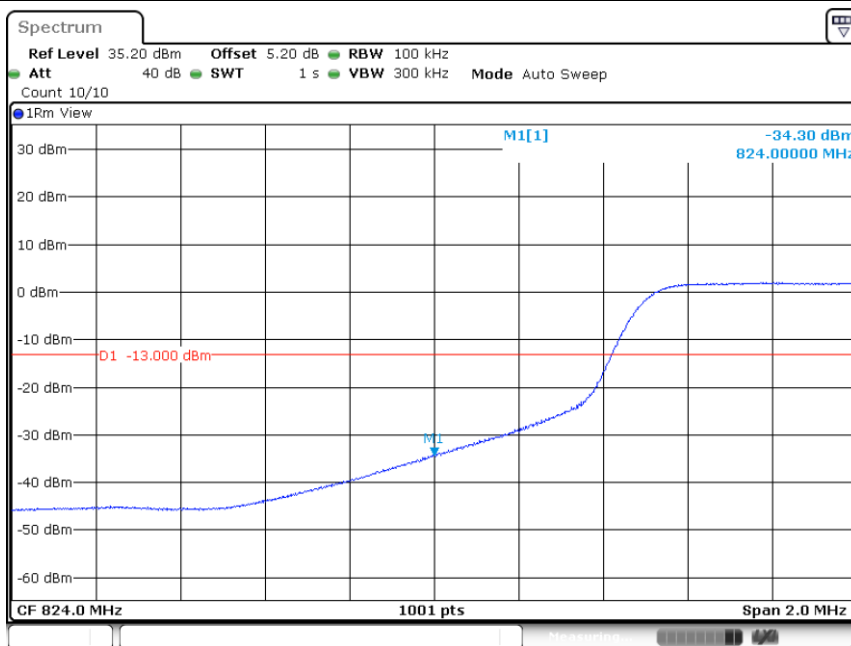


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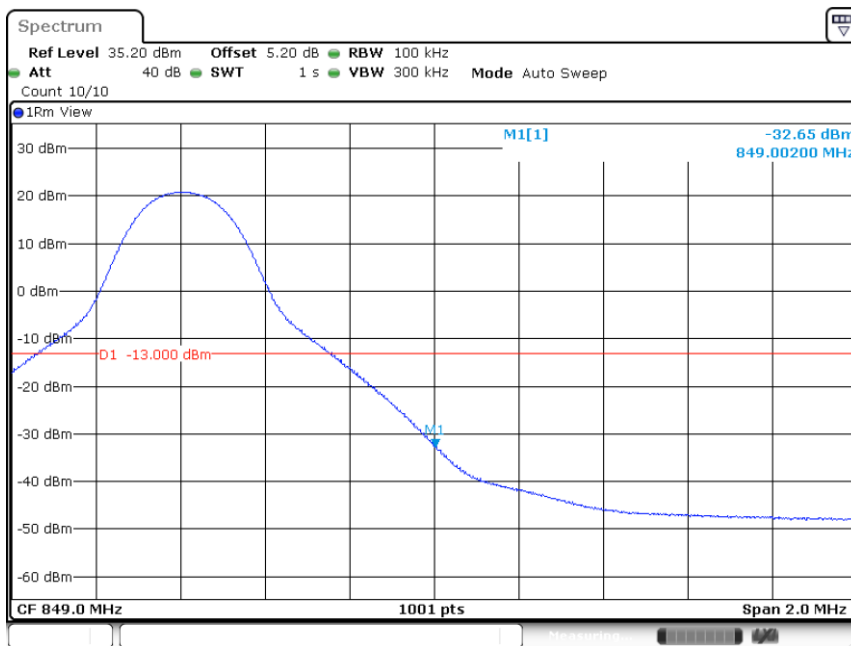
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Band5-10MHz-QPSK-20450-50RB#0



Date: 28.MAY.2021 10:45:31

Band5-10MHz-QPSK-20600-1RB#49

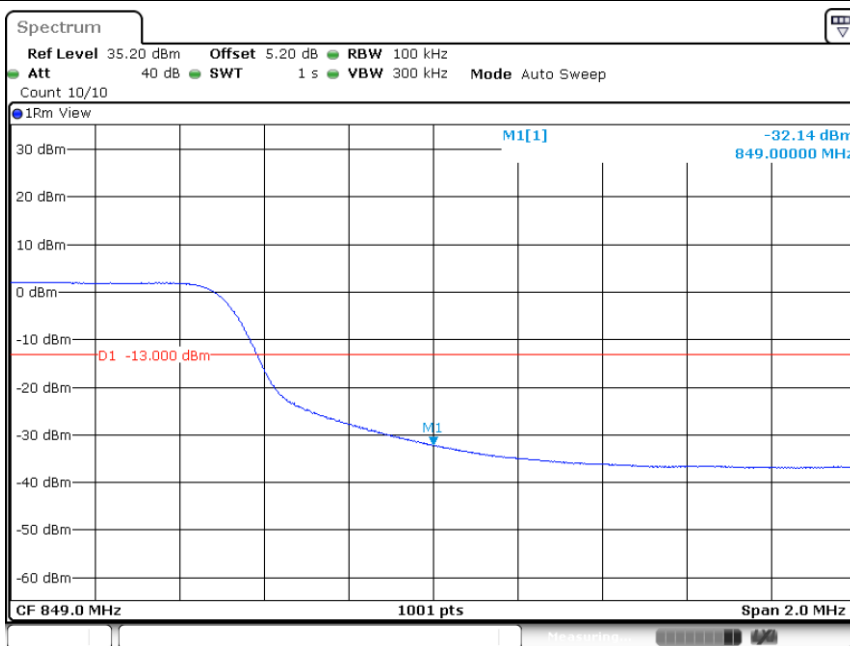


Date: 28.MAY.2021 10:46:17



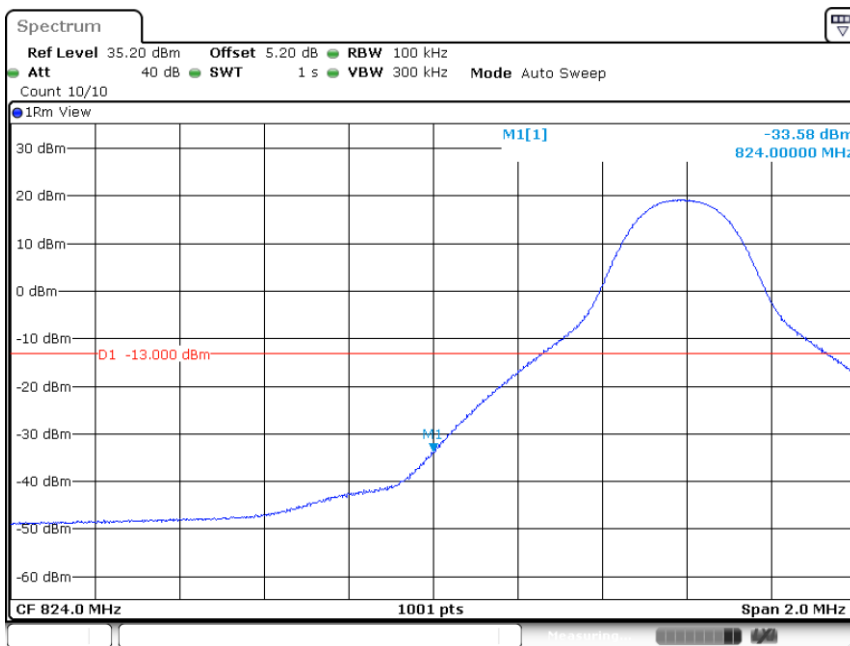
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Band5-10MHz-QPSK-20600-50RB#0



Date: 28.MAY.2021 10:46:58

Band5-10MHz-16QAM-20450-1RB#0

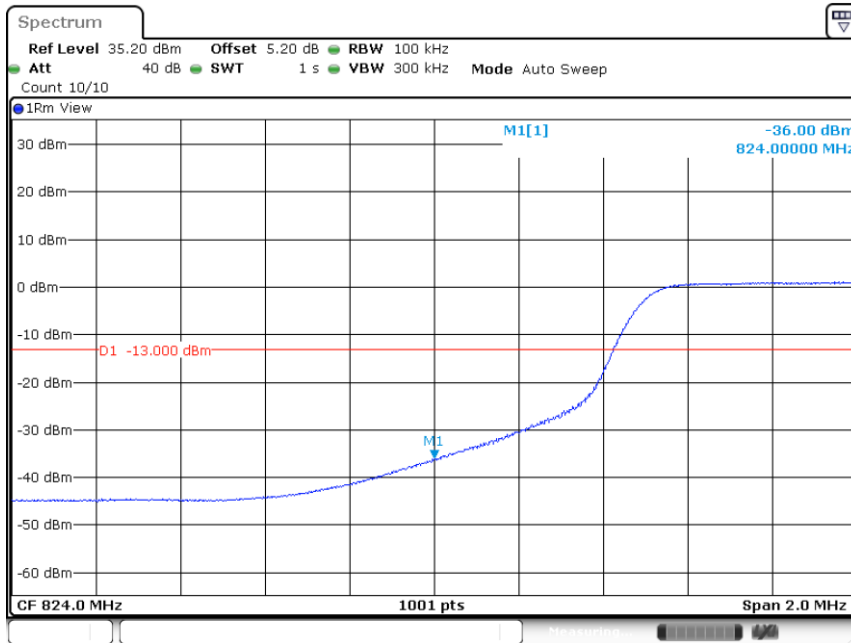


Date: 28.MAY.2021 10:45:11



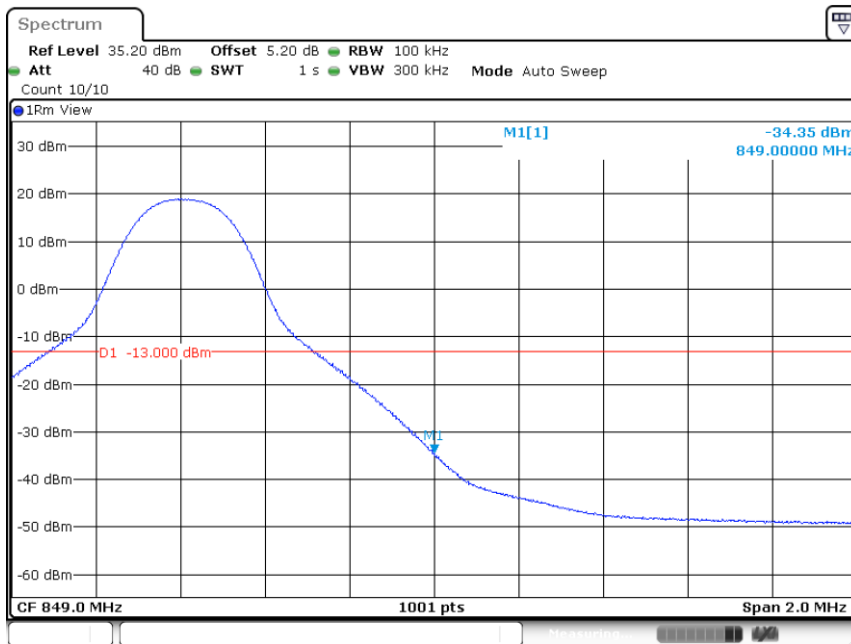
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Band5-10MHz-16QAM-20450-50RB#0



Date: 28.MAY.2021 10:45:52

Band5-10MHz-16QAM-20600-1RB#49

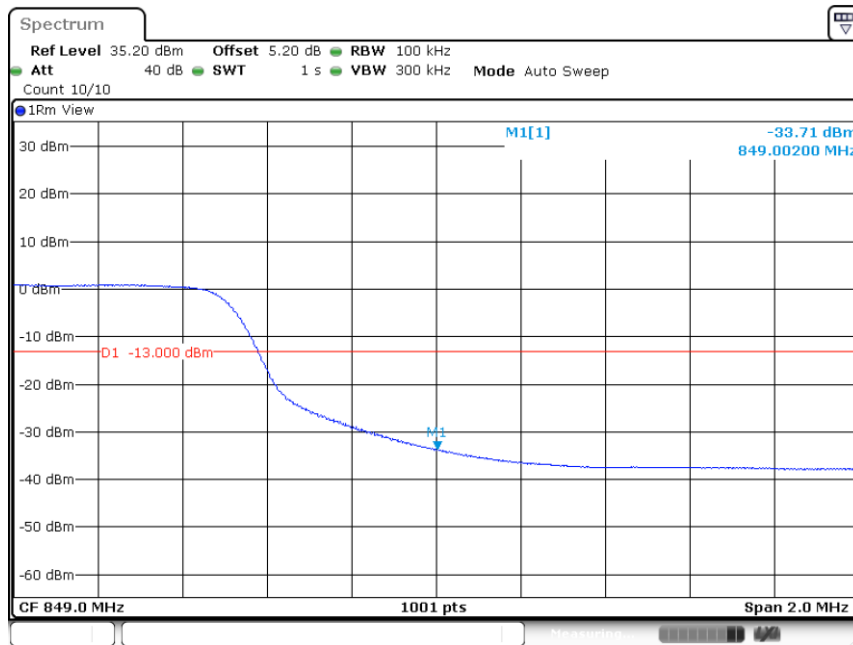


Date: 28.MAY.2021 10:46:37



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Band5-10MHz-16QAM-20600-50RB#0



Date: 28.MAY.2021 10:47:18



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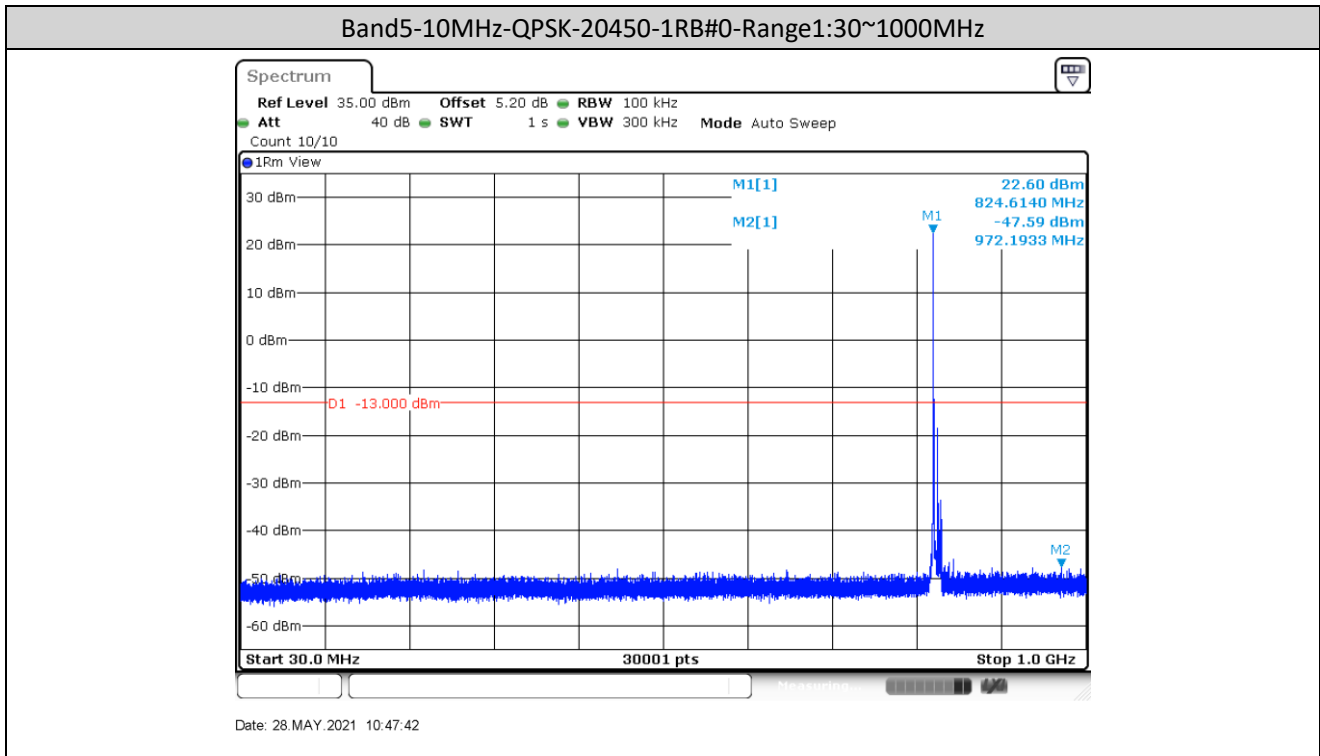
6. Spurious Emission at Antenna Terminal

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.

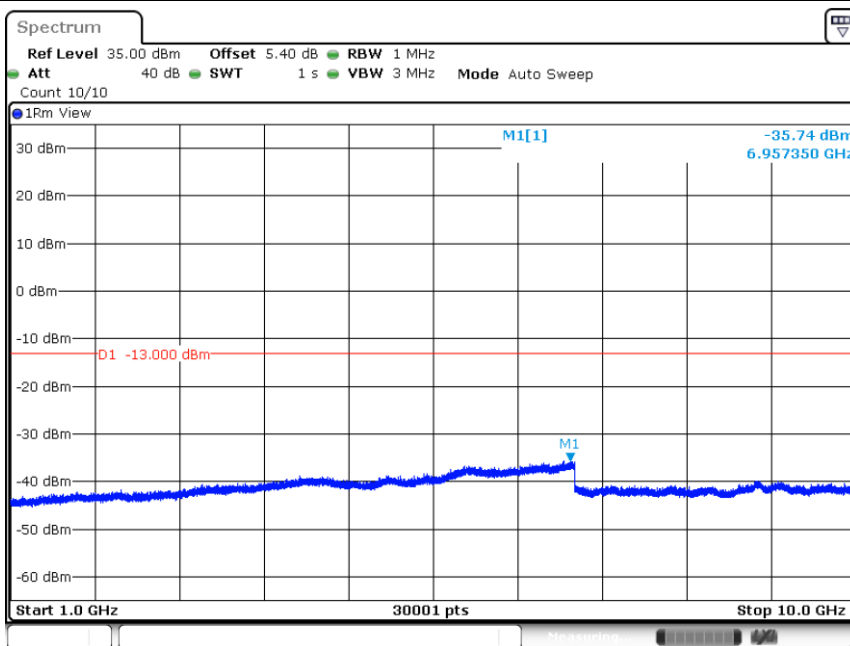
6.1. Test Plots



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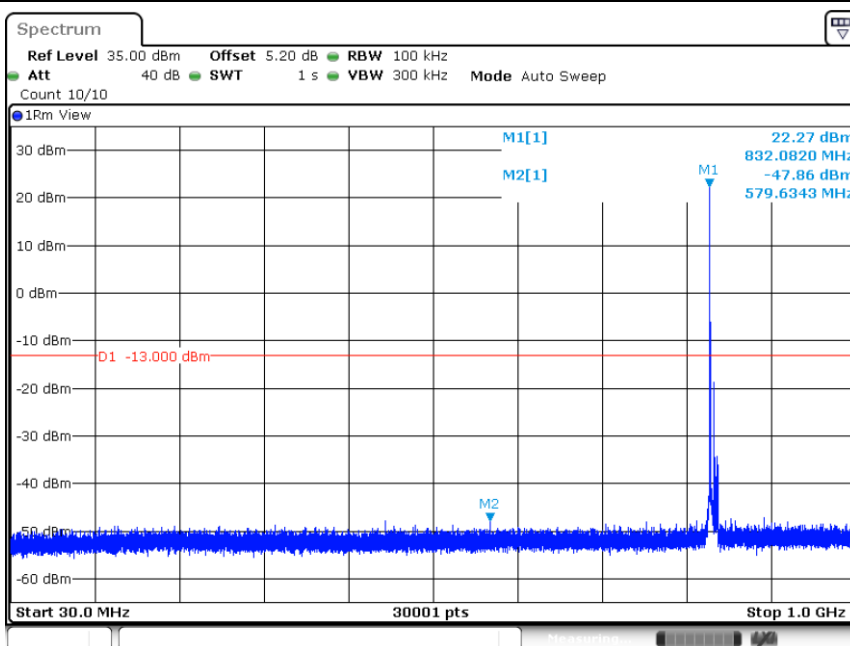
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Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:47:58

Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

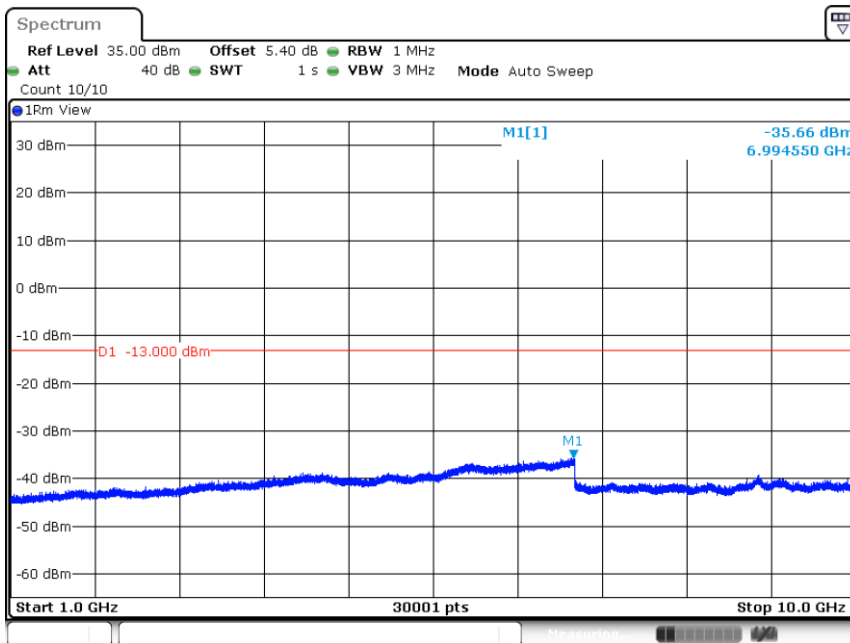


Date: 28.MAY.2021 10:48:53



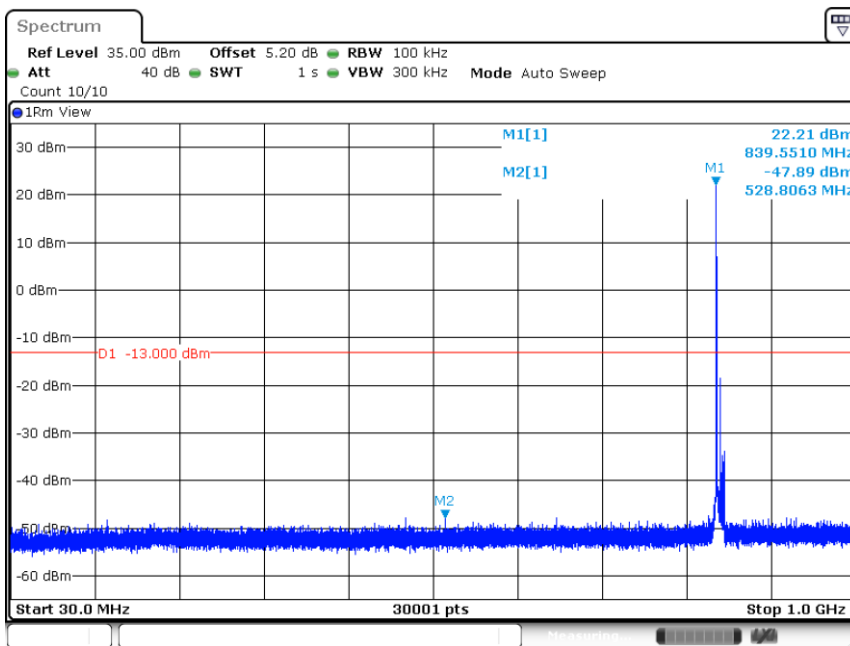
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Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:49:08

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



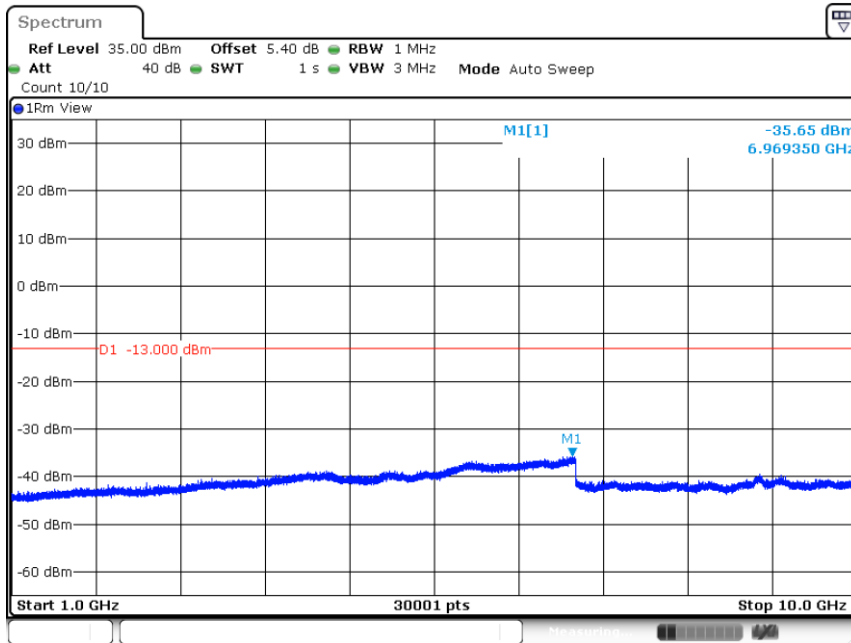
Date: 28.MAY.2021 10:50:04



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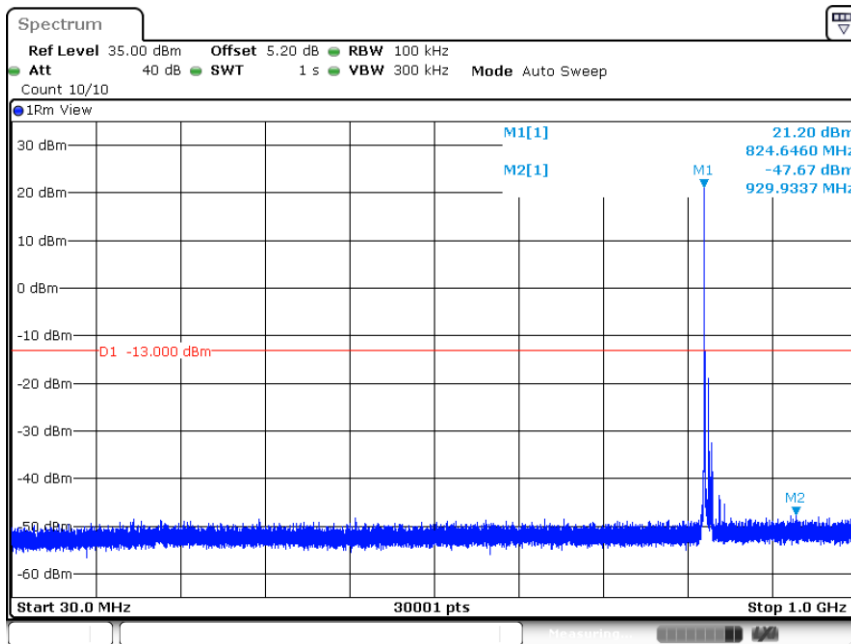
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Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:50:19

Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

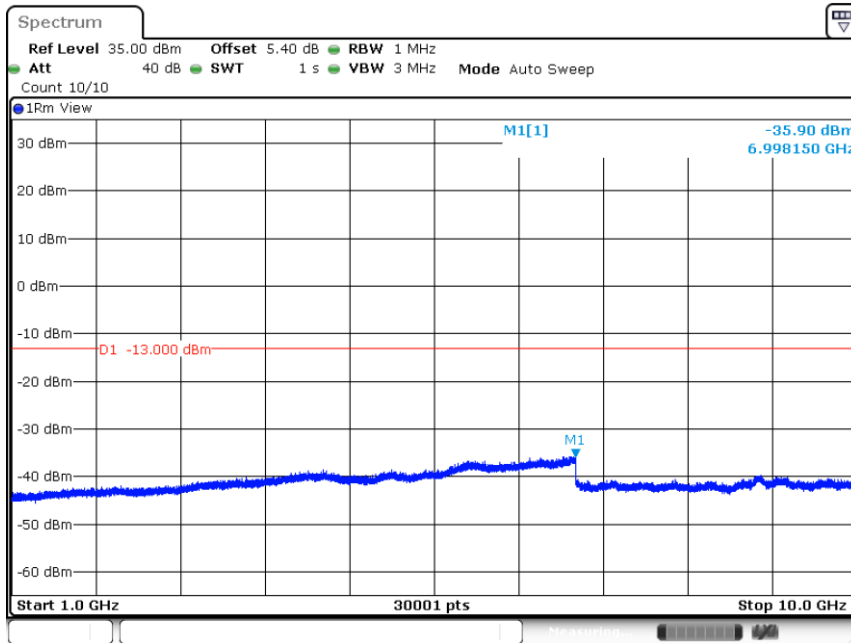


Date: 28.MAY.2021 10:48:17



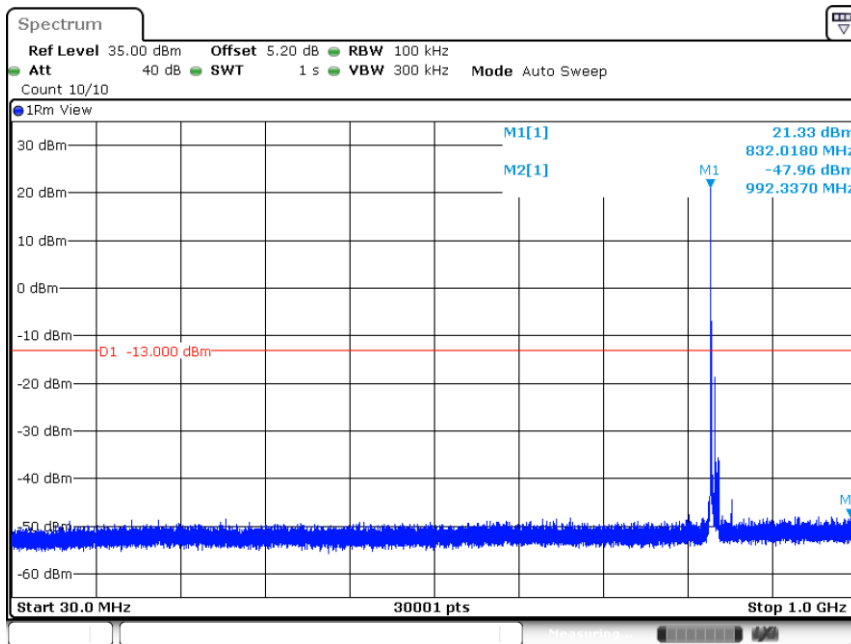
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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:48:33

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

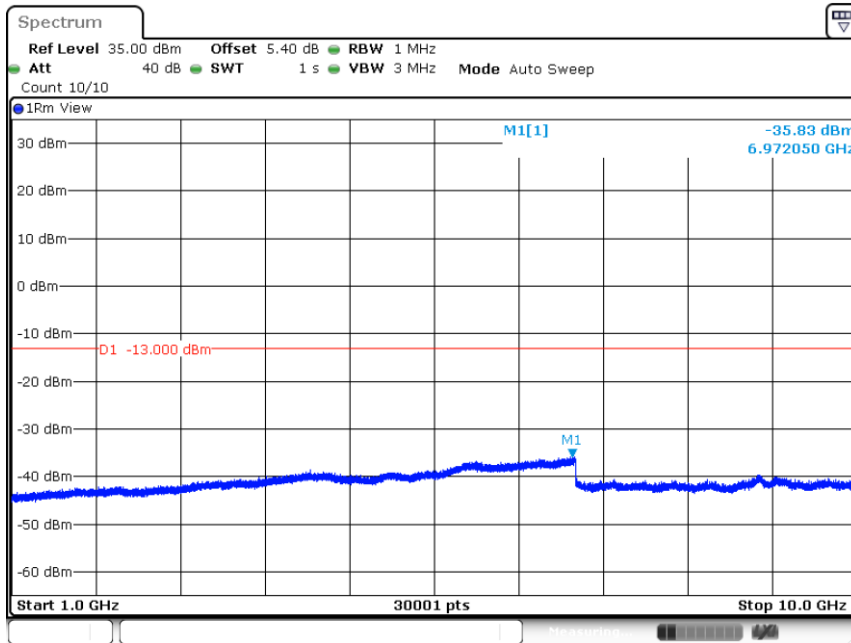


Date: 28.MAY.2021 10:49:28



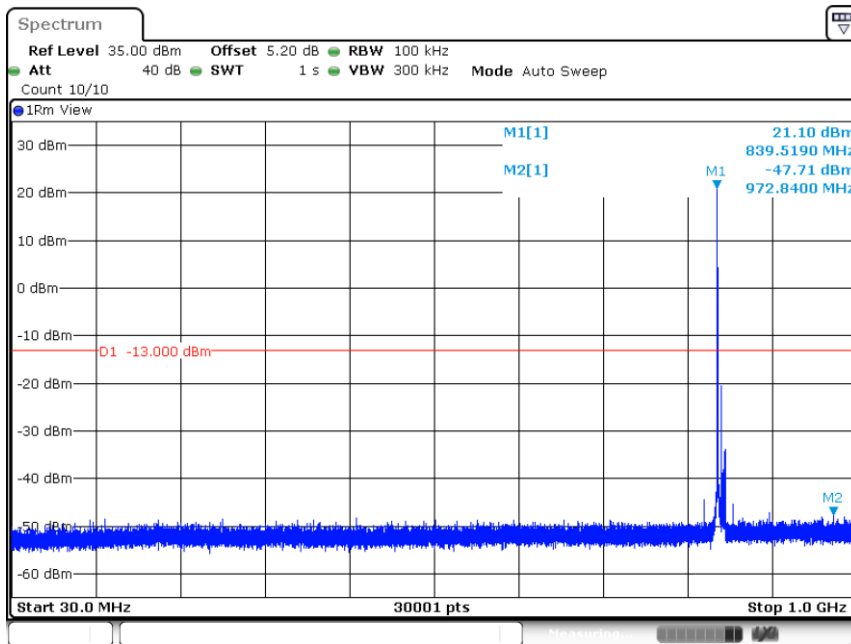
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Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:49:44

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



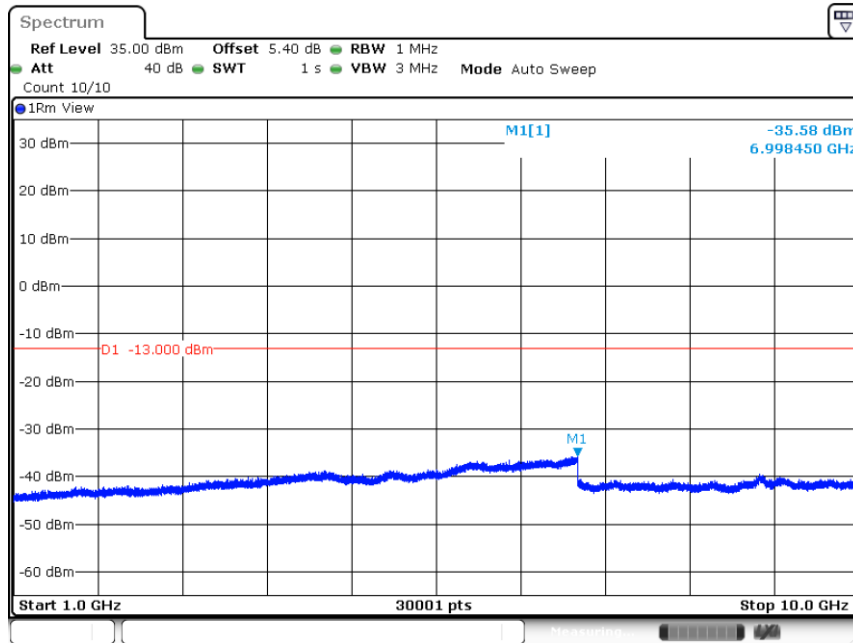
Date: 28.MAY.2021 10:50:39



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Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



Date: 28.MAY.2021 10:50:54



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7. Field Strength of Spurious Radiation

7.1. Test Band LTE_Band5

7.1.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1136.7068	22.18	-66.69	-13.00	53.69	Horizontal
2	1649.2325	40.42	-48.74	-13.00	35.74	Horizontal
3	2473.6737	43.33	-42.26	-13.00	29.26	Horizontal
4	3758.4879	52.22	-62.34	-13.00	49.34	Horizontal
5	7485.8243	49.23	-52.92	-13.00	39.92	Horizontal
6	9591.1796	46.99	-51.33	-13.00	38.33	Horizontal



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7.2. Test Band LTE_Band5

7.2.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.2325	32.89	-56.27	-13.00	43.27	Vertical
2	2473.7737	43.22	-42.37	-13.00	29.37	Vertical
3	2987.5994	22.09	-60.84	-13.00	47.84	Vertical
4	3657.6829	52.40	-62.29	-13.00	49.29	Vertical
5	6491.4246	48.96	-55.66	-13.00	42.66	Vertical
6	9619.5310	46.57	-51.65	-13.00	38.65	Vertical



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7.3. Test Band LTE_Band5
7.3.1. Test Channel = Middle

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1136.8068	21.92	-66.95	-13.00	53.95	Horizontal
2	1664.2332	39.19	-49.87	-13.00	36.87	Horizontal
3	2496.3748	45.74	-39.95	-13.00	26.95	Horizontal
4	5100.8050	50.40	-59.28	-13.00	46.28	Horizontal
5	7481.9741	49.09	-53.09	-13.00	40.09	Horizontal
6	9897.4449	46.61	-51.66	-13.00	38.66	Horizontal



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7.4. Test Band LTE_Band5
7.4.1. Test Channel = Middle

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1172.6086	21.95	-66.91	-13.00	53.91	Vertical
2	1664.3332	36.04	-53.02	-13.00	40.02	Vertical
3	2495.9748	45.43	-40.26	-13.00	27.26	Vertical
4	4160.6580	51.76	-61.04	-13.00	48.04	Vertical
5	7503.6752	49.31	-52.78	-13.00	39.78	Vertical
6	9537.6269	47.49	-51.24	-13.00	38.24	Vertical



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7.5. Test Band LTE_Band5

7.5.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.2340	39.13	-49.84	-13.00	36.84	Horizontal
2	2518.7759	43.62	-41.86	-13.00	28.86	Horizontal
3	2989.6995	21.89	-61.03	-13.00	48.03	Horizontal
4	3358.4179	53.67	-62.09	-13.00	49.09	Horizontal
5	7476.0238	49.33	-52.90	-13.00	39.90	Horizontal
6	9886.5943	46.71	-51.56	-13.00	38.56	Horizontal



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7.6. Test Band LTE_Band5

7.6.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1346.5173	21.71	-67.43	-13.00	54.43	Vertical
2	1679.2340	34.42	-54.55	-13.00	41.55	Vertical
3	2518.6759	42.61	-42.87	-13.00	29.87	Vertical
4	4208.9604	51.43	-61.31	-13.00	48.31	Vertical
5	6626.5313	49.97	-54.99	-13.00	41.99	Vertical
6	9593.2797	46.84	-51.46	-13.00	38.46	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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.30	0.000359	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	1.20	0.001422	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.60	0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.80	-0.000948	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-2.00	-0.002370	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	0.10	0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	0.10	0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-0.20	-0.000241	±2.5	PASS



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Band5	10MHz	16QAM	20450	50RB#0	NV	40	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	0.30	0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.40	-0.000474	±2.5	PASS



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