



Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.37	24.43	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.43	24.49	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.32	24.38	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.45	24.51	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.30	24.36	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.48	24.54	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.39	23.45	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.30	24.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.36	24.42	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.28	24.34	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.39	24.45	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.45	24.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.45	24.51	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.48	23.54	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.15	24.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.41	24.47	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.28	24.34	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.35	24.41	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.30	24.36	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.41	24.47	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.35	23.41	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.34	23.40	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.87	23.93	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.73	23.79	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.27	23.33	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.48	23.54	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.35	23.41	38.45	PASS



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Band5	1.4MHz	16QAM	20407	6RB#0	21.61	22.67	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.35	23.41	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.71	23.77	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.77	23.83	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.30	23.36	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.38	23.44	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.32	23.38	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.46	22.52	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.68	23.74	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.87	23.93	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.61	23.67	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.37	23.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.34	23.40	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.39	23.45	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.35	22.41	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.43	24.49	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.59	24.65	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.40	24.46	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.40	23.46	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.49	23.55	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.40	23.46	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.37	23.43	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.28	24.34	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.68	24.74	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.43	24.49	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.41	23.47	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.52	23.58	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.37	23.43	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.42	23.48	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.37	24.43	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.46	24.52	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.34	24.40	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.29	23.35	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#7	22.43	23.49	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.47	23.53	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.36	23.42	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.62	23.68	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.77	23.83	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.78	23.84	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.49	22.55	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.55	22.61	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.48	22.54	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.30	22.36	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.79	23.85	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.94	24.00	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.53	23.59	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.52	22.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.59	22.65	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.45	22.51	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.43	22.49	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.79	23.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.00	24.06	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.75	23.81	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.38	22.44	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.58	22.64	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.40	22.46	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.40	22.46	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.31	24.37	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.39	24.45	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.36	24.42	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.35	23.41	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.40	23.46	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.47	23.53	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.44	23.50	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.30	24.36	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.44	24.50	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#12	23.33	24.39	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.41	23.47	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.43	23.49	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.41	23.47	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.42	23.48	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.14	24.20	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.24	24.30	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.33	24.39	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.44	23.50	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.48	23.54	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.31	23.37	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.34	23.40	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.43	23.49	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.81	23.87	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.43	23.49	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.40	22.46	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.57	22.63	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.58	22.64	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.57	22.63	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.66	23.72	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.43	23.49	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.14	23.20	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.45	22.51	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.43	22.49	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.35	22.41	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.38	22.44	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.59	23.65	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.73	23.79	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.15	23.21	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.45	22.51	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.46	22.52	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.42	22.48	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.39	22.45	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#49	23.39	24.45	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.57	24.63	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.30	24.36	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.38	23.44	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.45	23.51	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.49	23.55	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.46	23.52	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.44	24.50	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.50	24.56	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.38	24.44	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.51	23.57	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.48	23.54	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.50	23.56	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.54	23.60	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.29	24.35	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.38	24.44	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.38	24.44	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.53	23.59	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.42	23.48	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.34	23.40	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.42	23.48	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.57	23.63	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.57	23.63	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.28	23.34	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.50	22.56	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.53	22.59	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.51	22.57	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.47	22.53	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.40	23.46	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.78	23.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.50	23.56	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.53	22.59	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.55	22.61	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#12	21.38	22.44	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.37	22.43	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.37	23.43	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.35	23.41	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.31	23.37	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.45	22.51	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.38	22.44	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.41	22.47	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.45	22.51	38.45	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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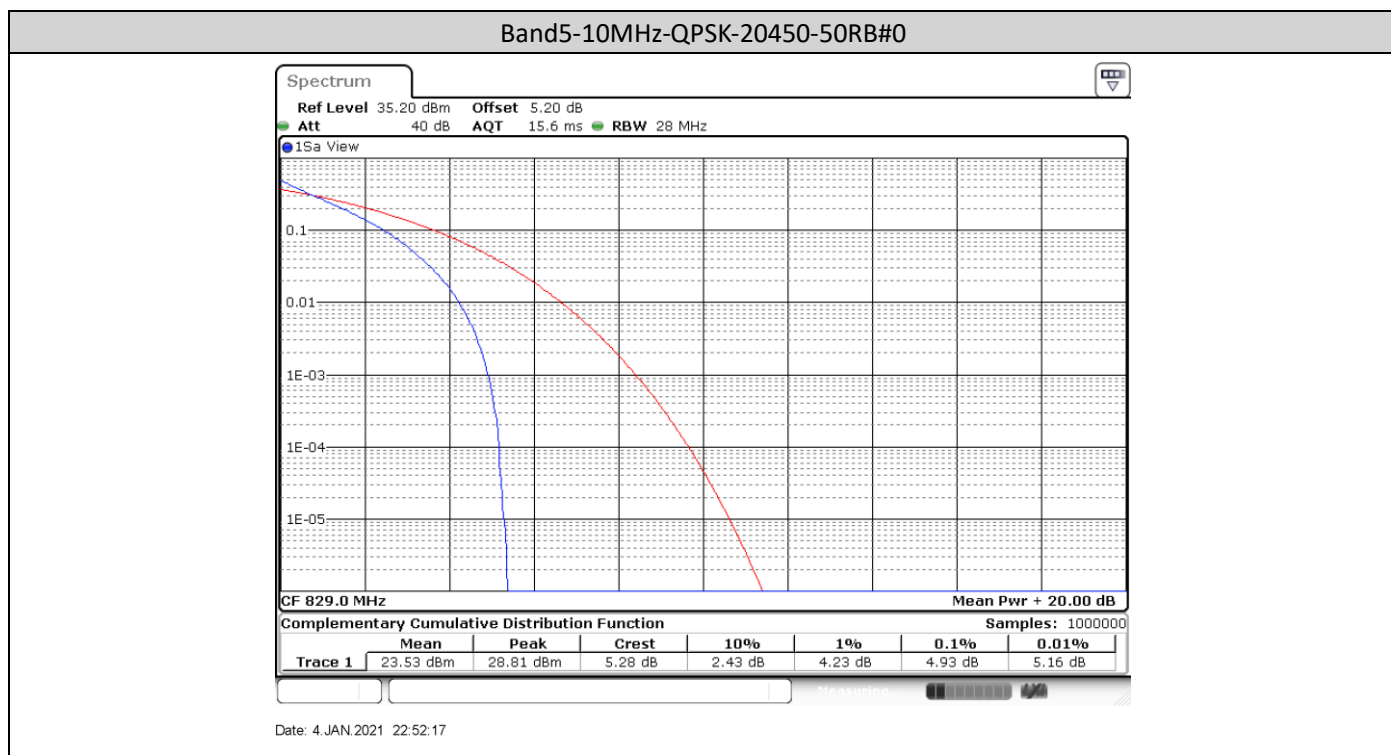


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

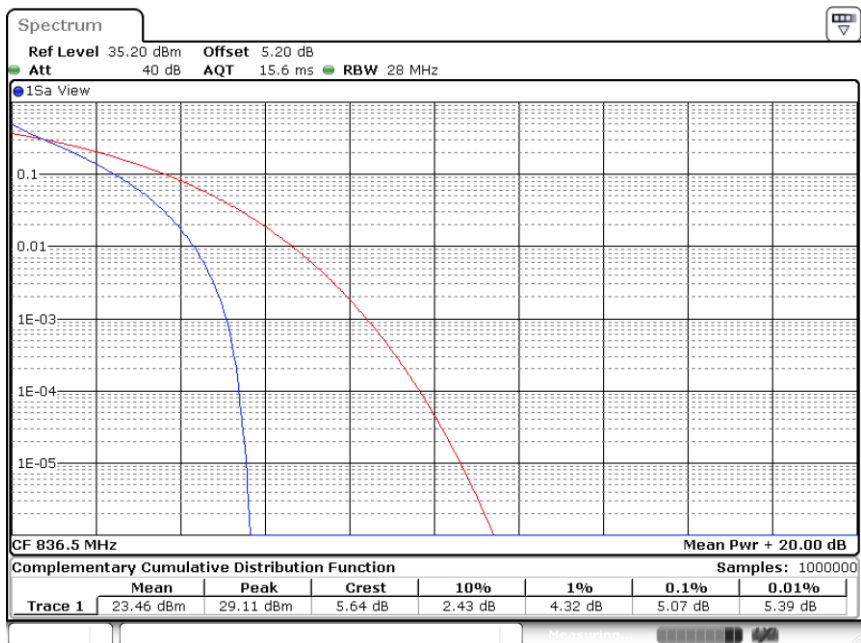
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.93	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.07	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.01	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.71	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.80	13	PASS

2.2. Test Plots



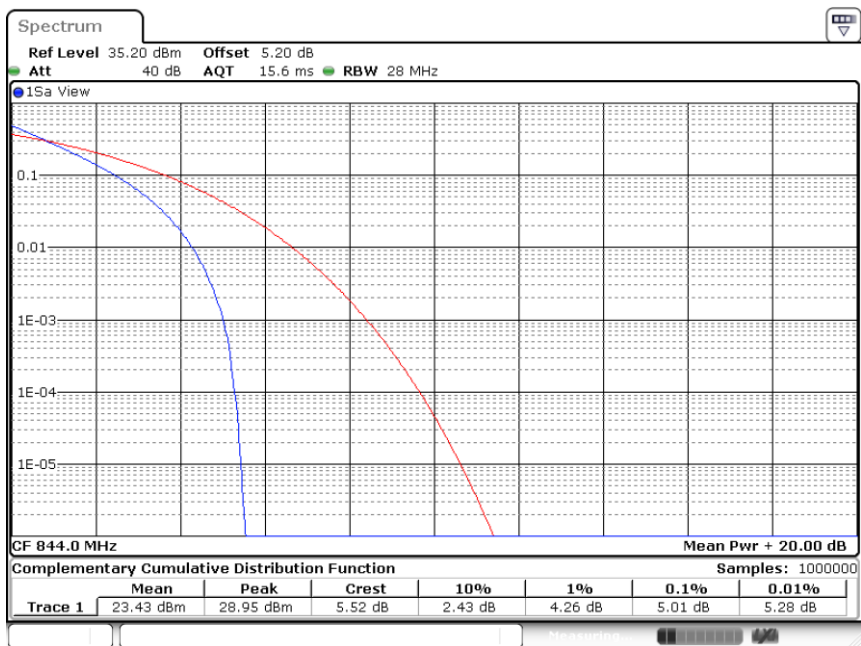


Band5-10MHz-QPSK-20525-50RB#0



Date: 4, JAN, 2021 22:52:39

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



Date: 4, JAN, 2021 22:53:02

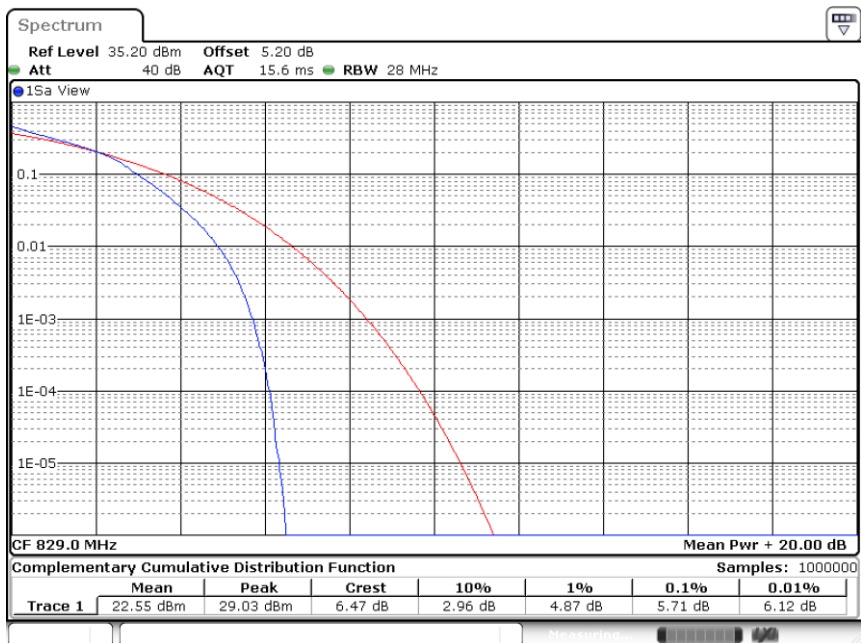


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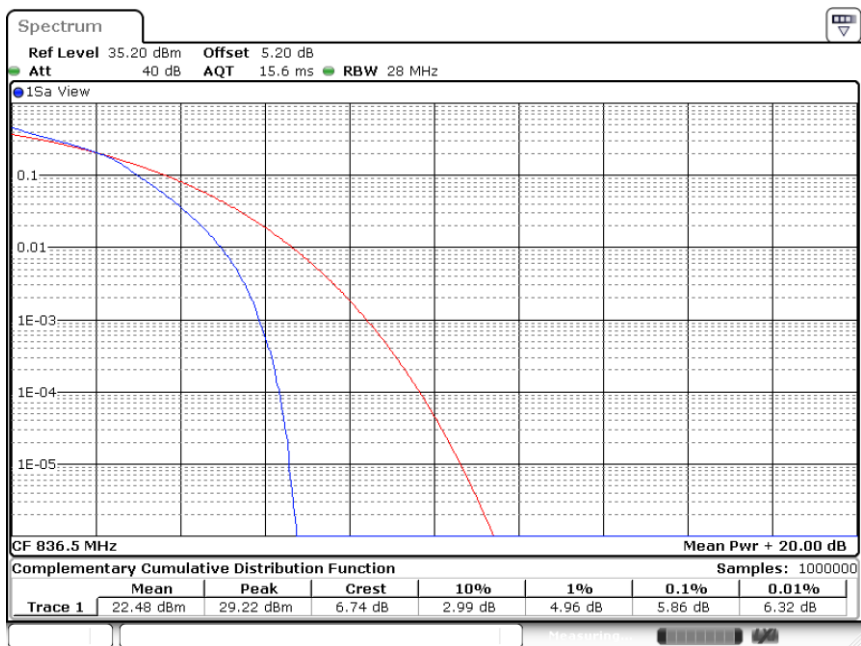


Band5-10MHz-16QAM-20450-50RB#0



Date: 4, JAN, 2021 22:52:28

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



Date: 4, JAN, 2021 22:52:51



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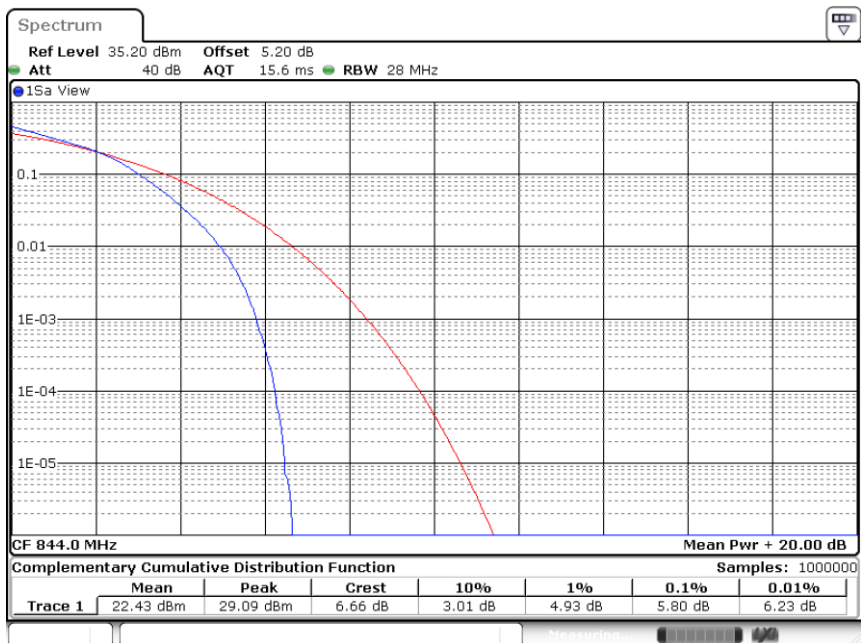
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Band5-10MHz-16QAM-20600-50RB#0



Date: 4 JAN.2021 22:53:13



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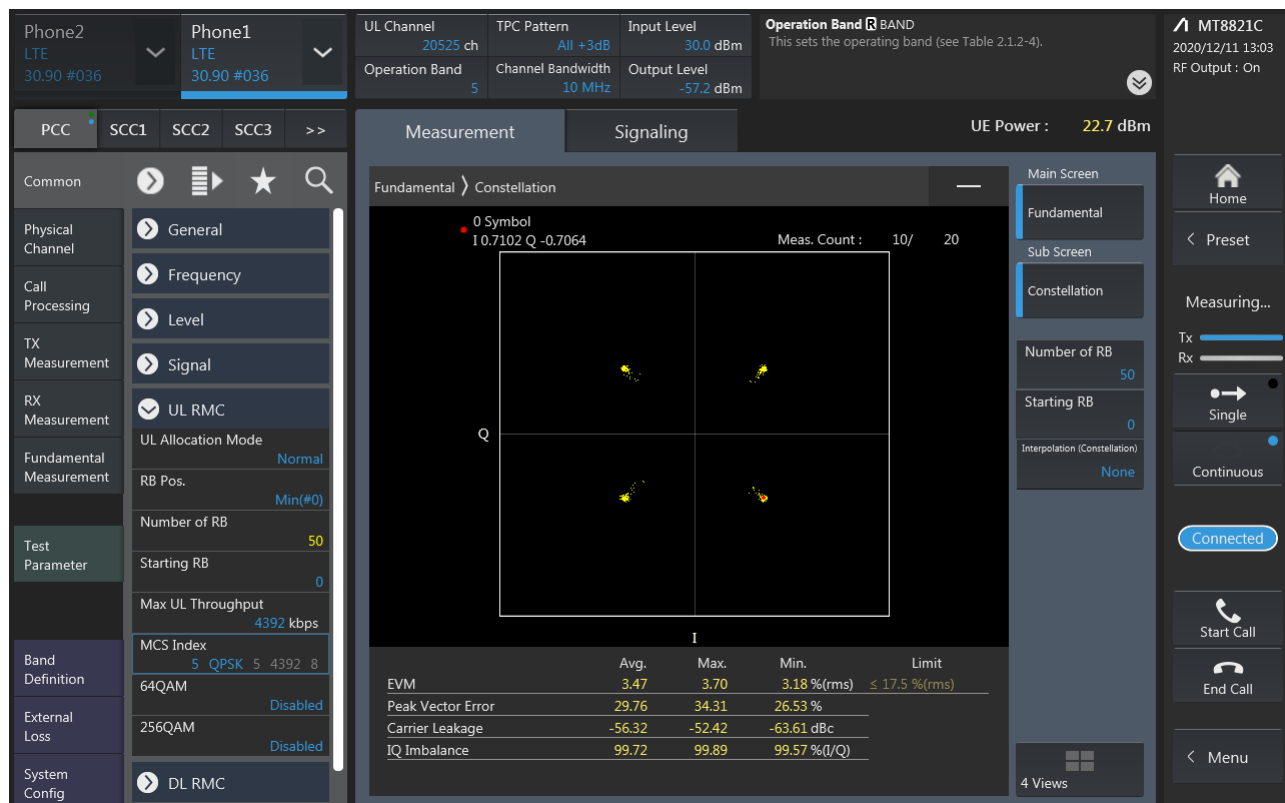
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

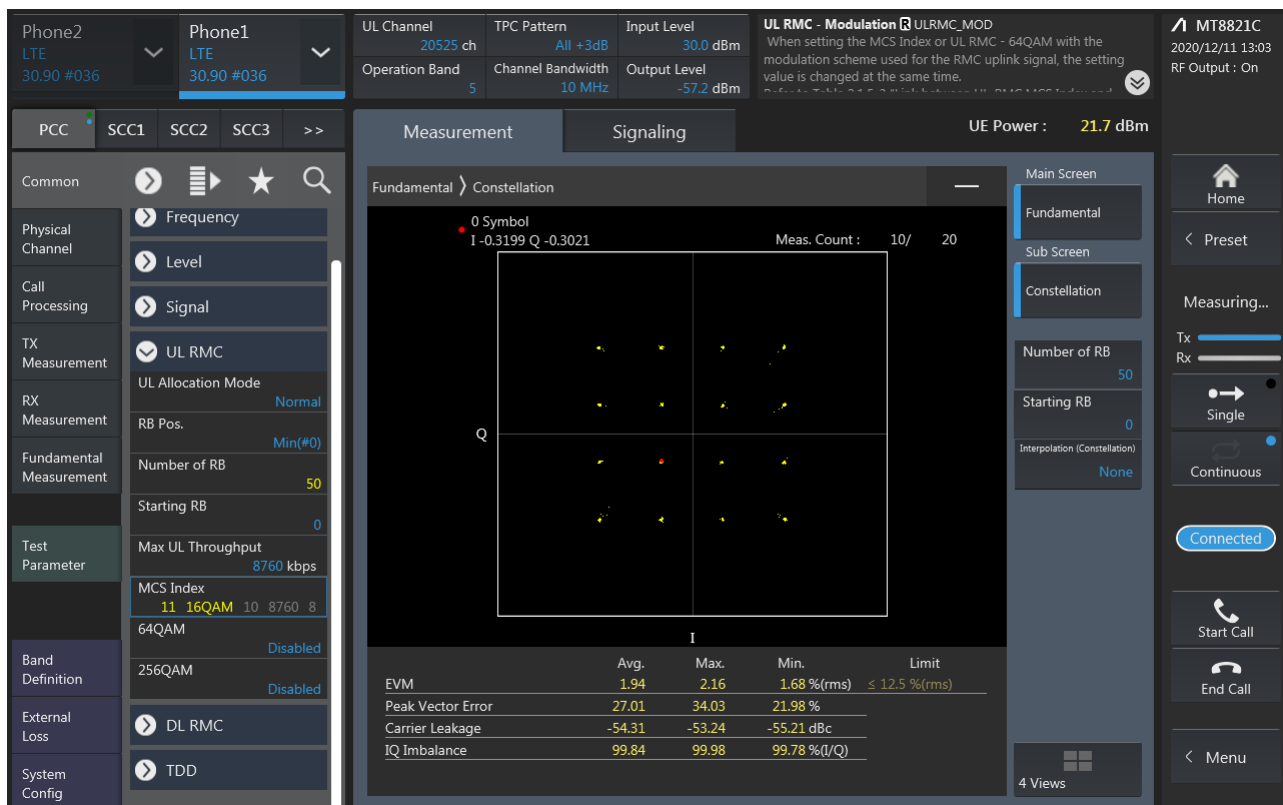
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.293	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.922	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.685	2.922	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.934	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.904	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.910	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.904	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.810	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.800	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.830	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.860	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.850	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.840	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.951	9.640	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.580	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.620	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.580	PASS



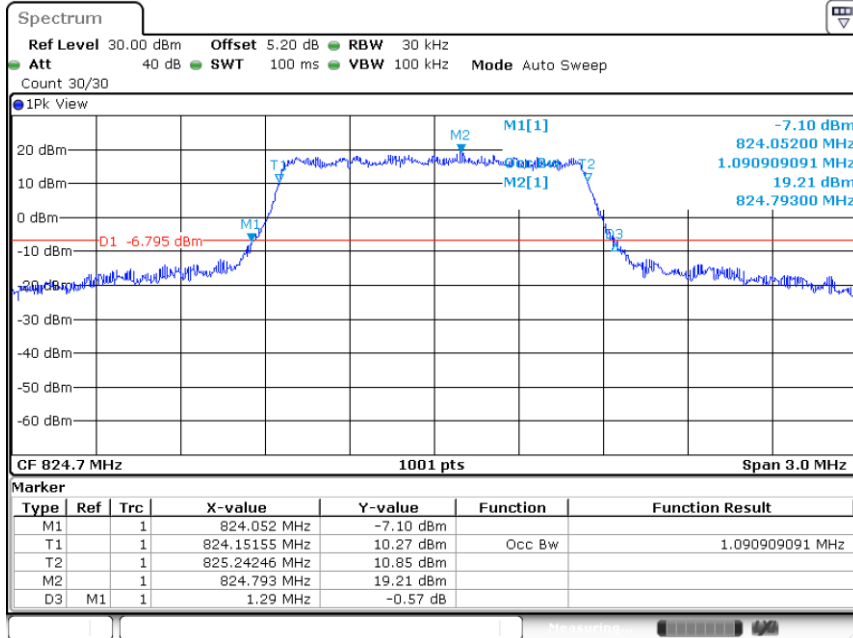
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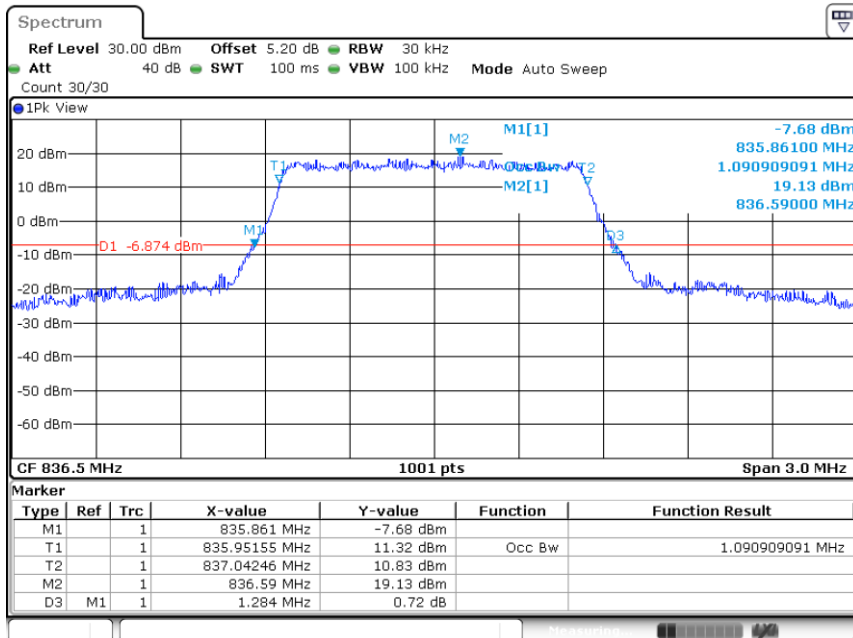
4.2. Test Plots

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



Date: 4, JAN. 2021 22:25:45

Band5-1.4MHz-QPSK-20525-6RB#0-1.091

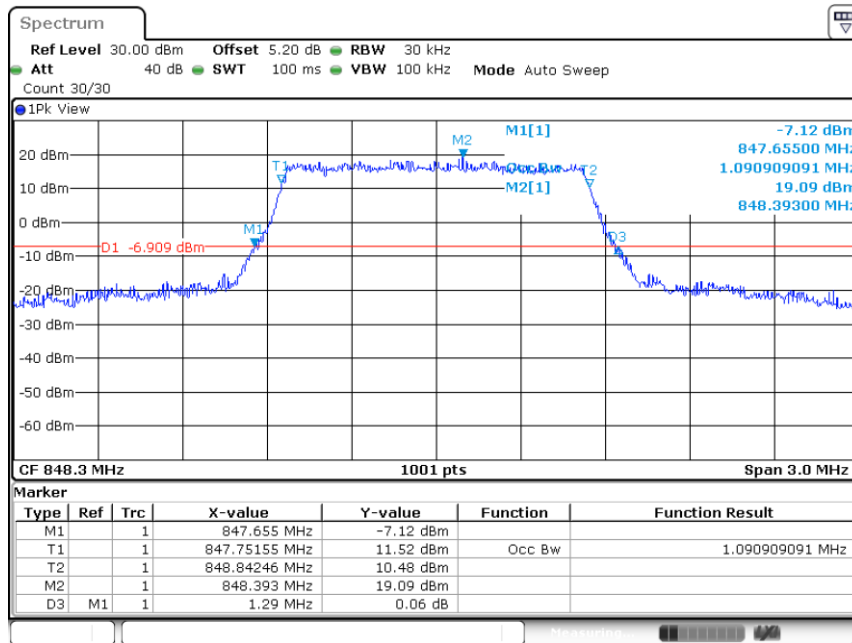


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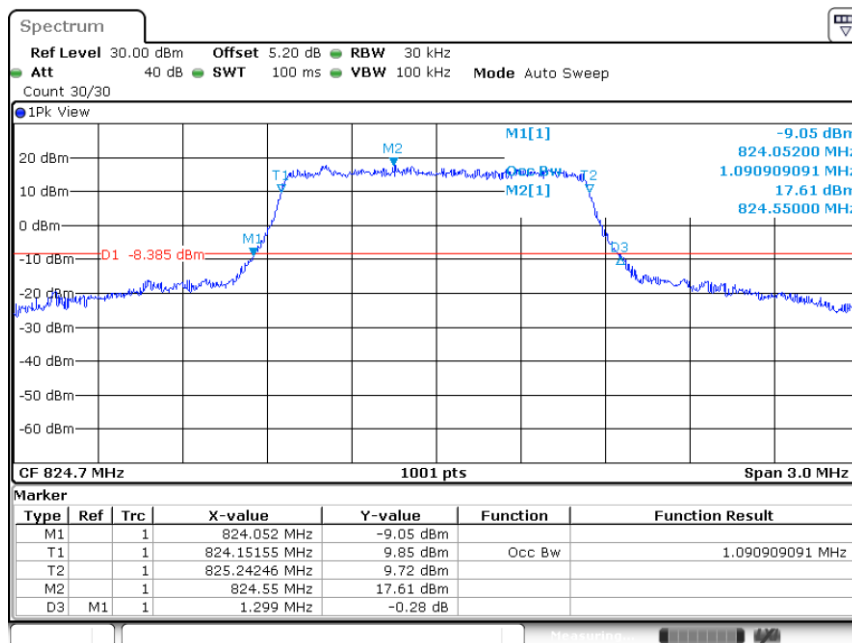


Band5-1.4MHz-QPSK-20643-6RB#0-1.091



Date: 4, JAN. 2021 22:26:37

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

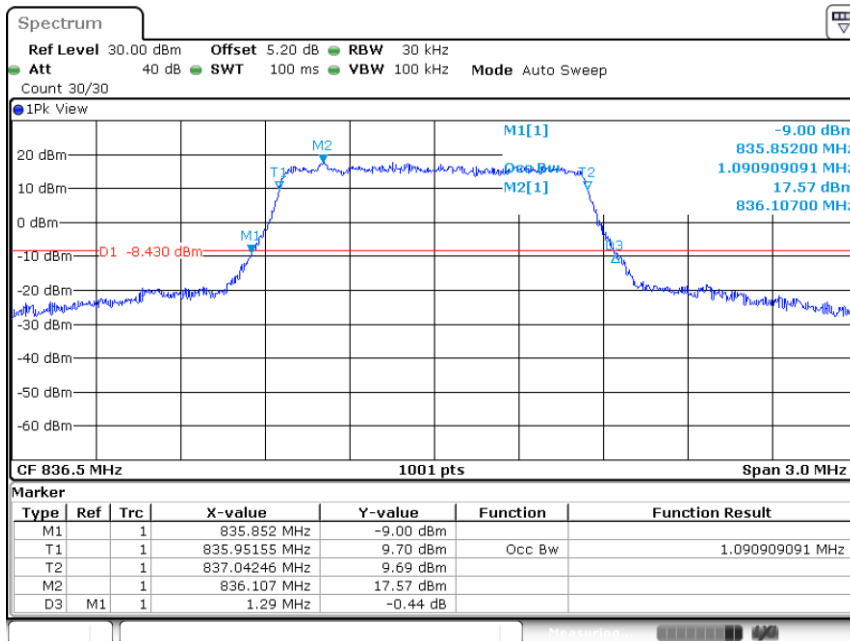


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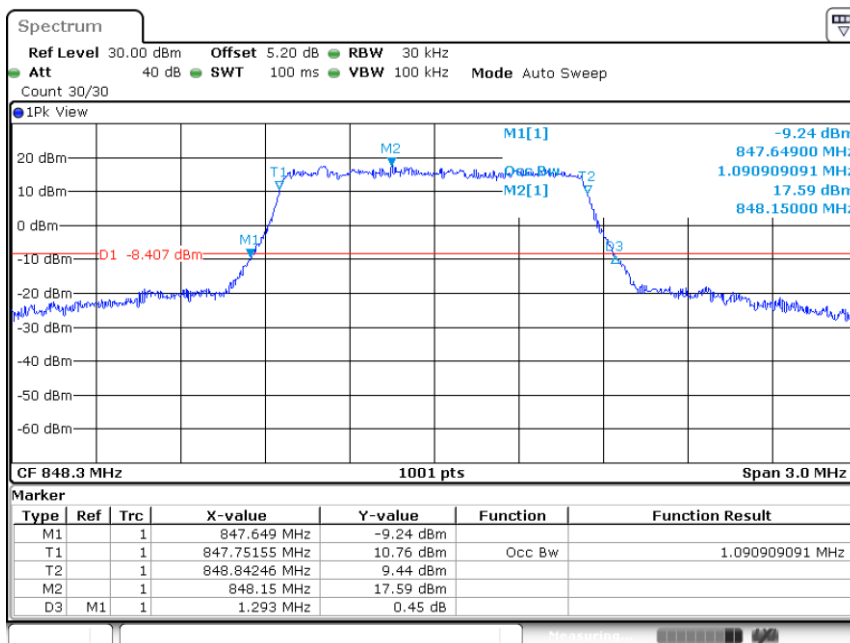


Band5-1.4MHz-16QAM-20525-6RB#0-1.091



Date: 4, JAN. 2021 22:26:24

Band5-1.4MHz-16QAM-20643-6RB#0-1.091

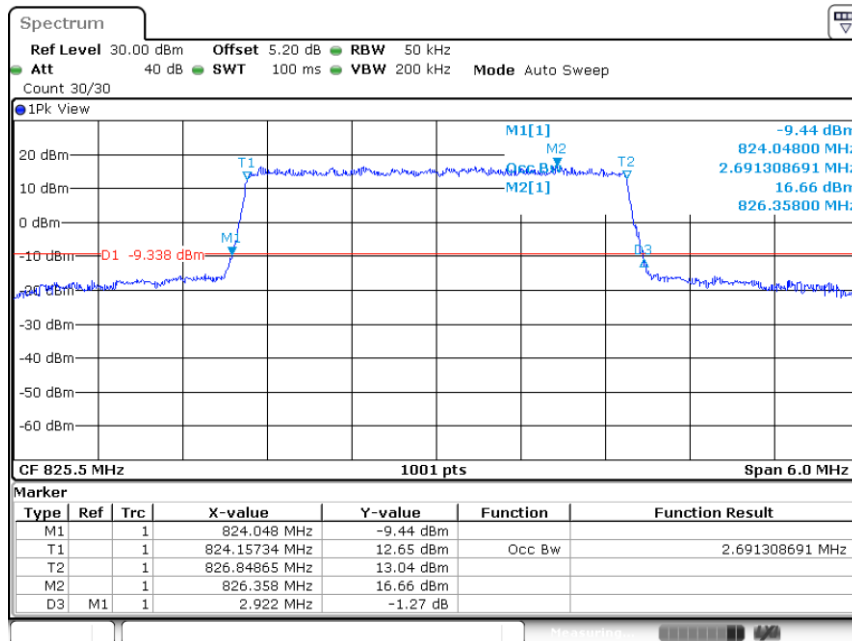


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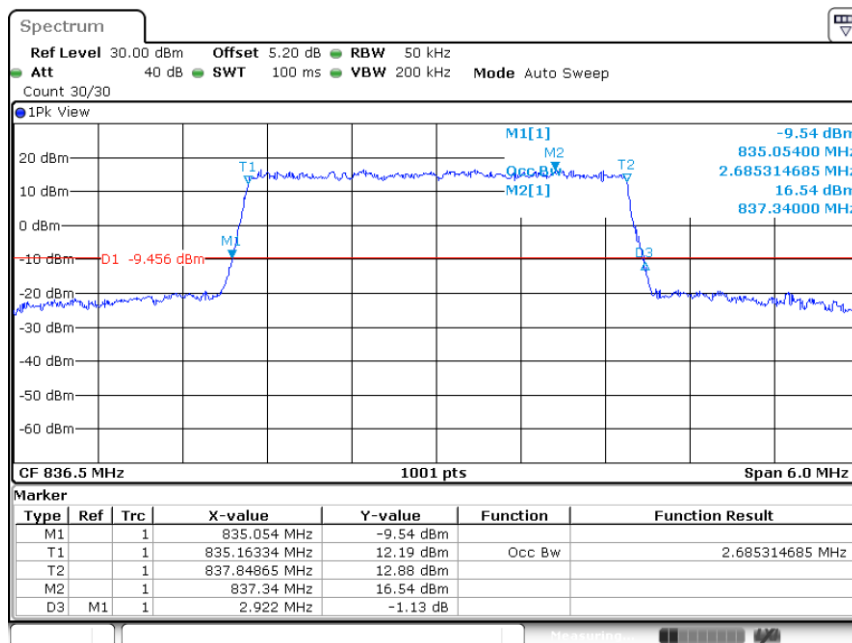


Band5-3MHz-QPSK-20415-15RB#0-2.691



Date: 4, JAN. 2021 22:27:08

Band5-3MHz-QPSK-20525-15RB#0-2.685

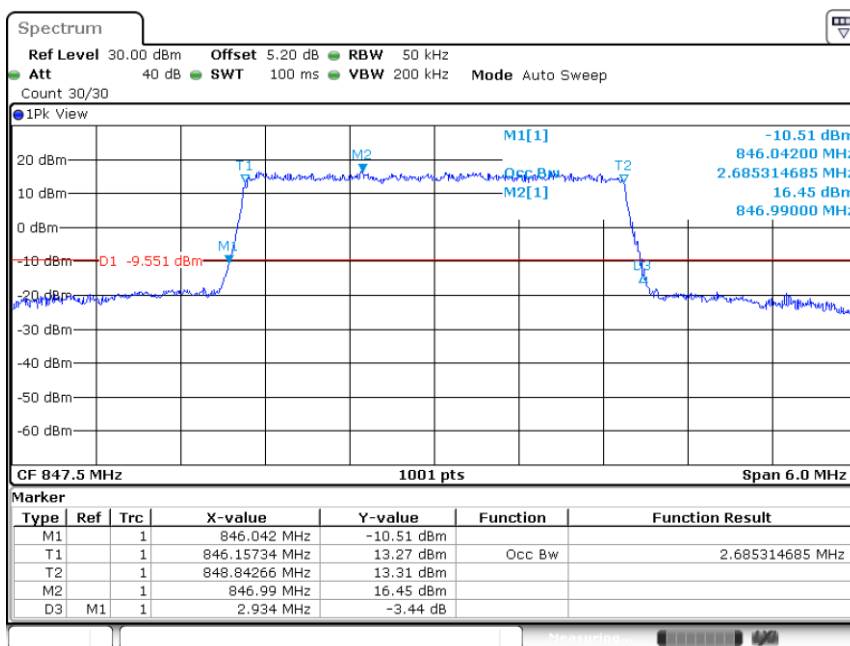


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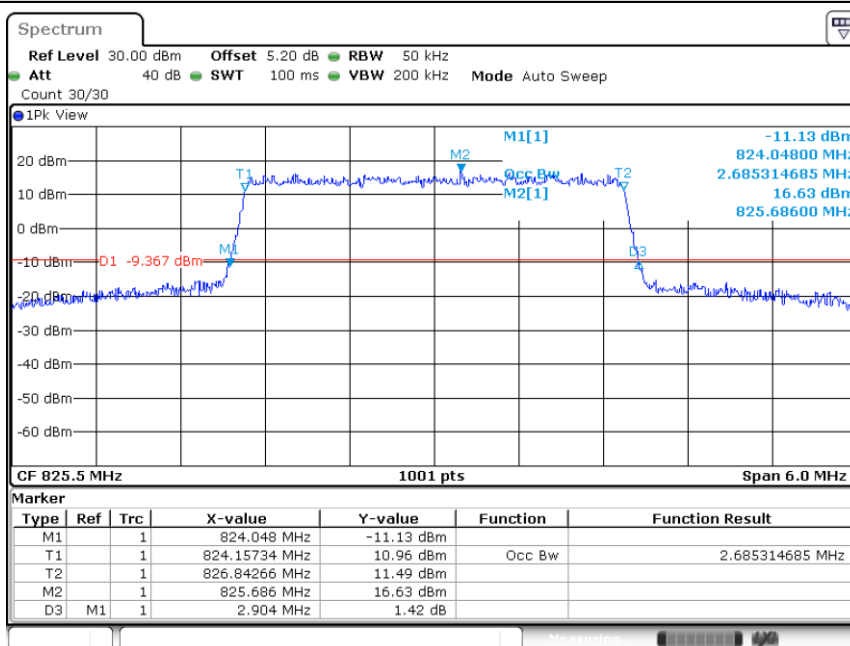


Band5-3MHz-QPSK-20635-15RB#0-2.685



Date: 4. JAN. 2021 22:27:59

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

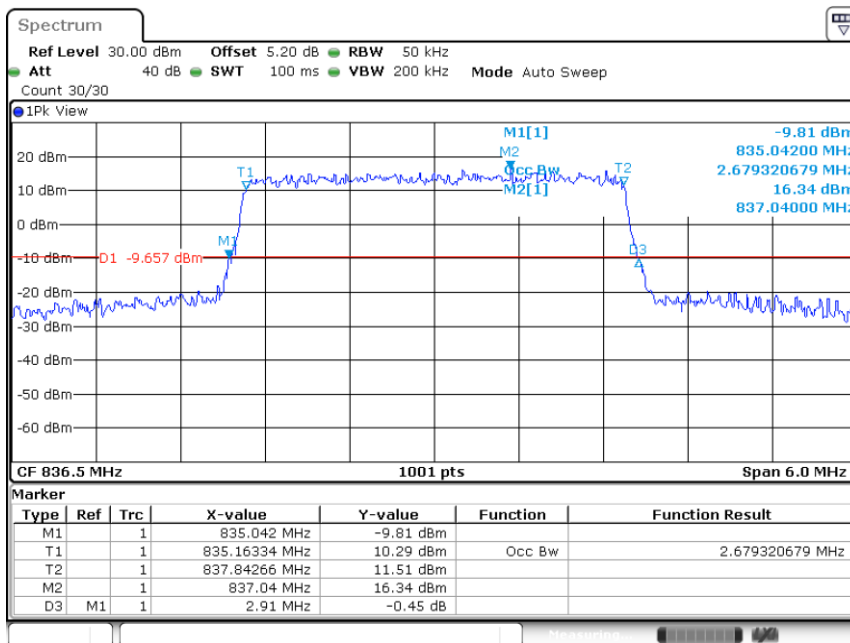


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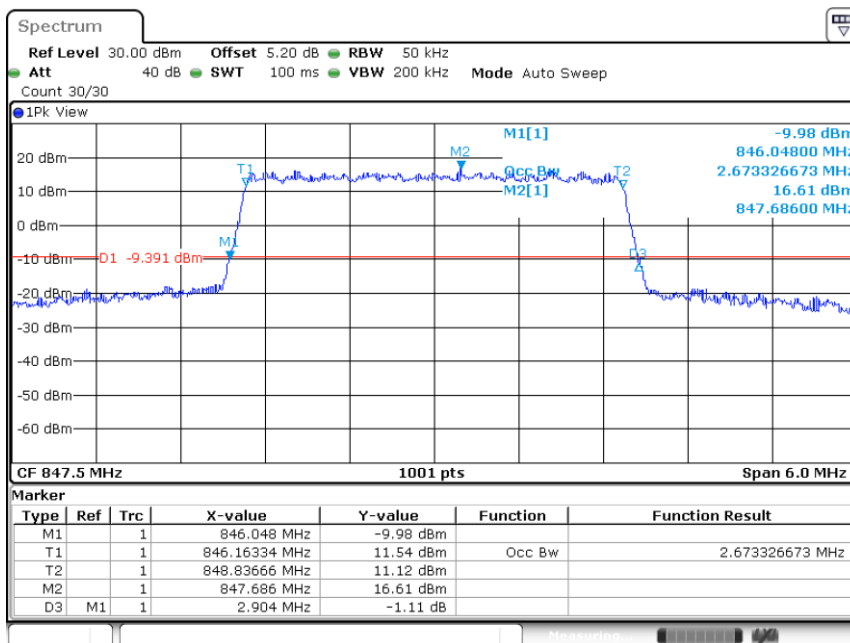


Band5-3MHz-16QAM-20525-15RB#0-2.679



Date: 4.JAN.2021 22:27:47

Band5-3MHz-16QAM-20635-15RB#0-2.673



Date: 4.JAN.2021 22:28:13



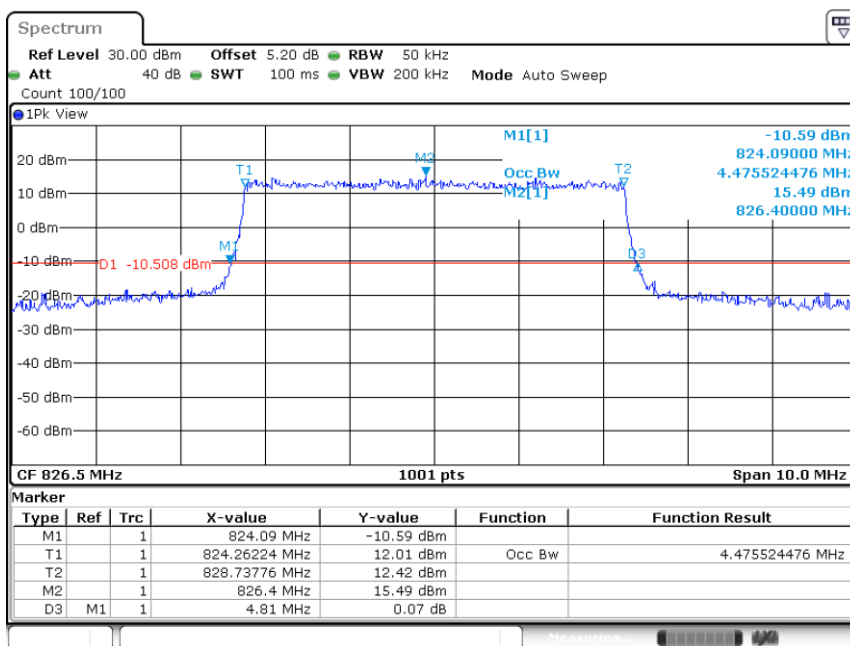
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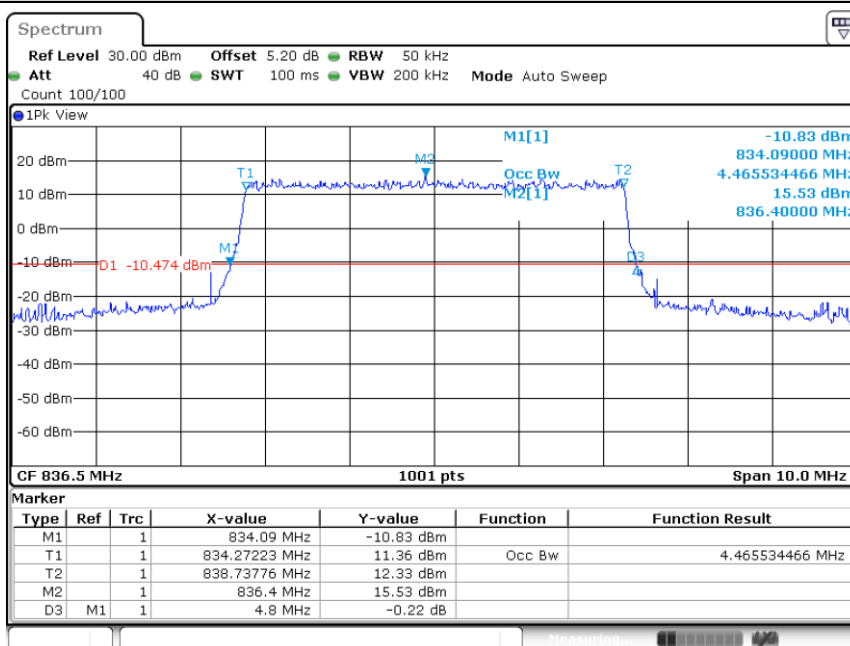


Band5-5MHz-QPSK-20425-25RB#0-4.476



Date: 4. JAN. 2021 22:28:37

Band5-5MHz-QPSK-20525-25RB#0-4.466



Date: 4. JAN. 2021 22:29:17



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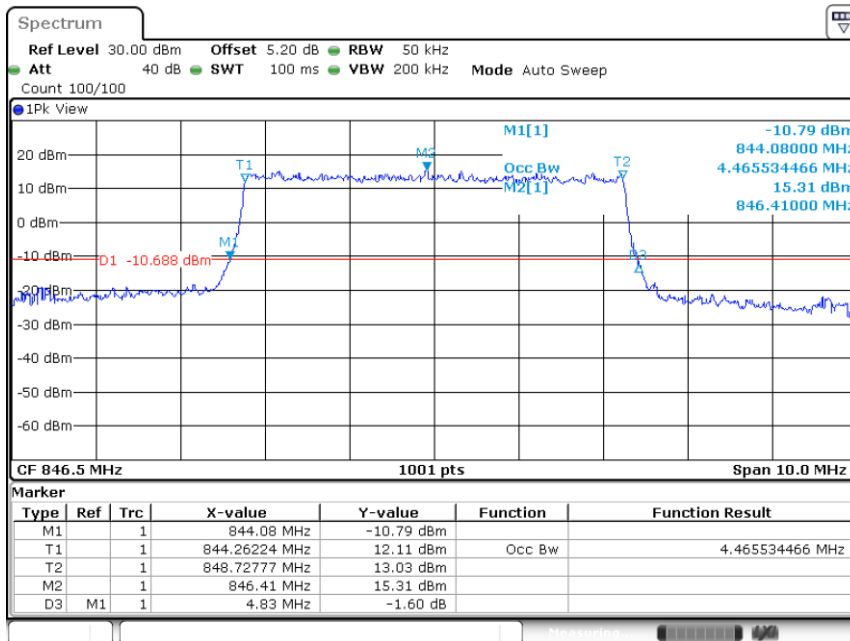
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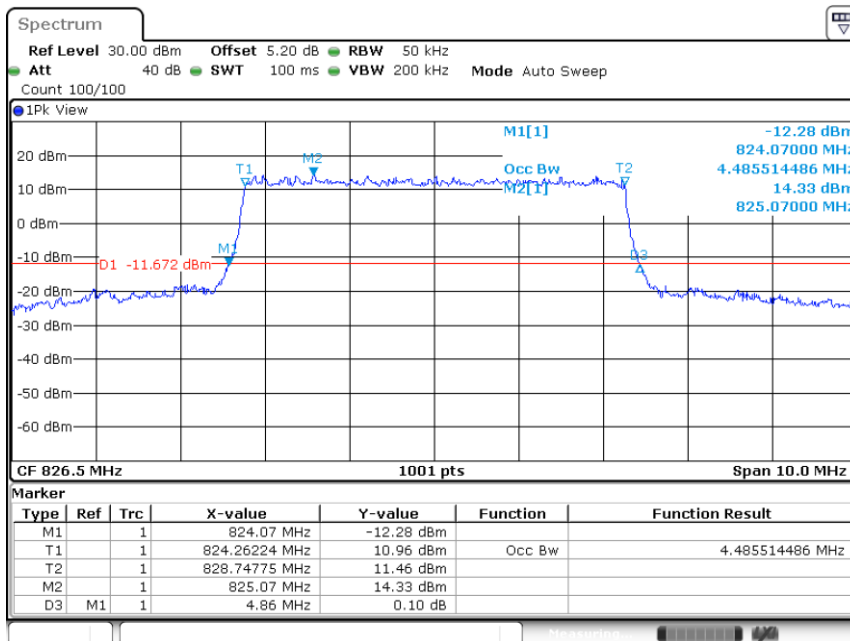


Band5-5MHz-QPSK-20625-25RB#0-4.466



Date: 4 JAN.2021 22:29:56

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



Date: 4 JAN.2021 22:28:57



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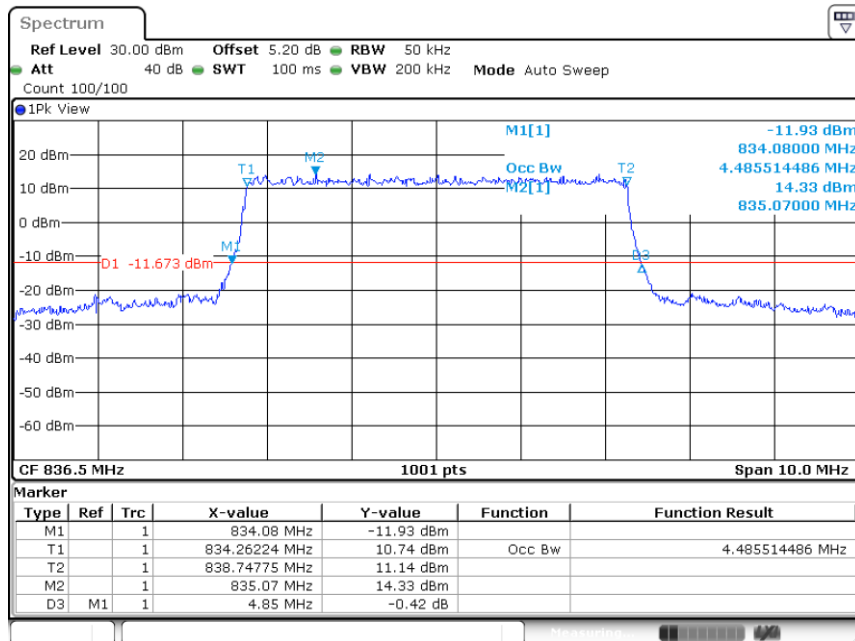
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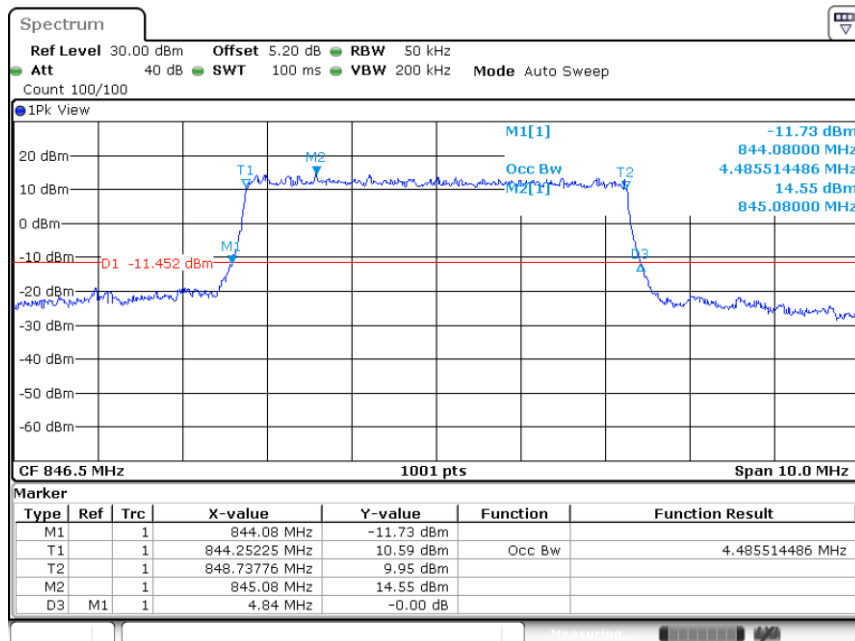


Band5-5MHz-16QAM-20525-25RB#0-4.486



Date: 4.JAN.2021 22:29:36

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



Date: 4.JAN.2021 22:30:16

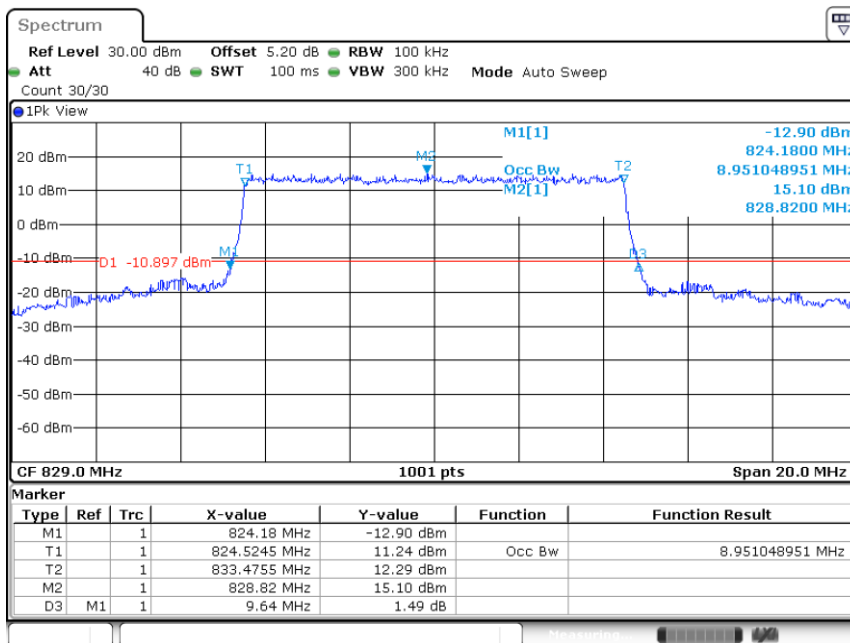


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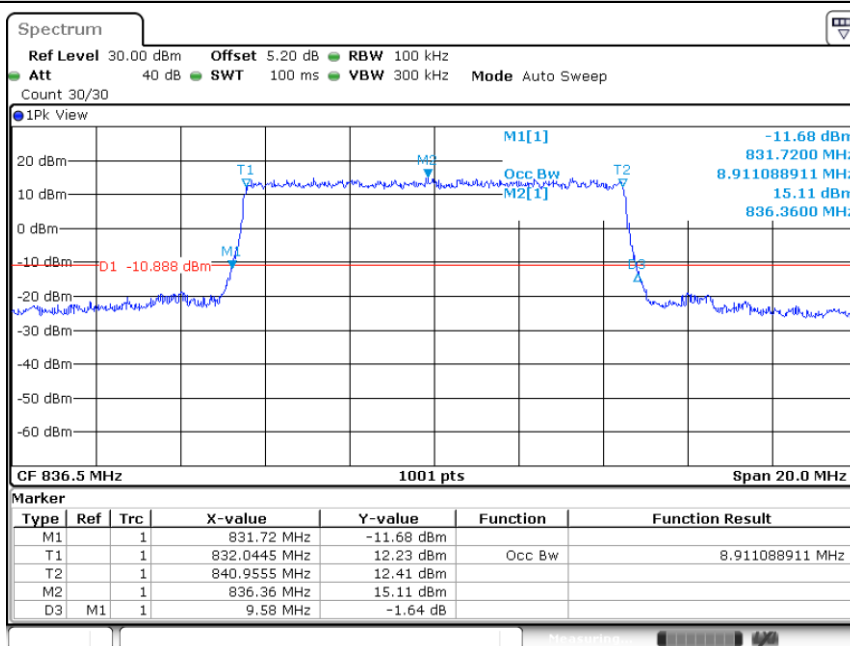


Band5-10MHz-QPSK-20450-50RB#0-8.951



Date: 4, JAN. 2021 22:30:34

Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 4, JAN. 2021 22:31:00



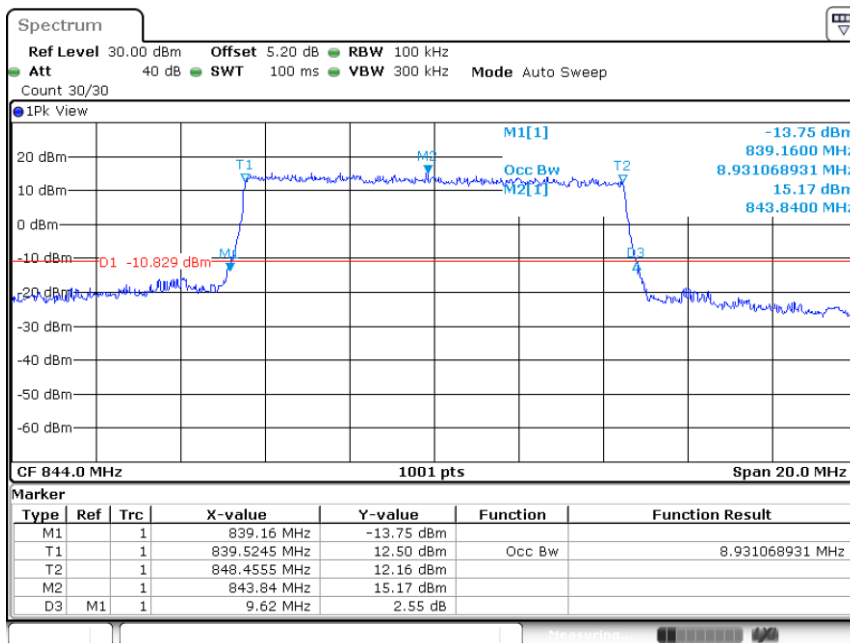
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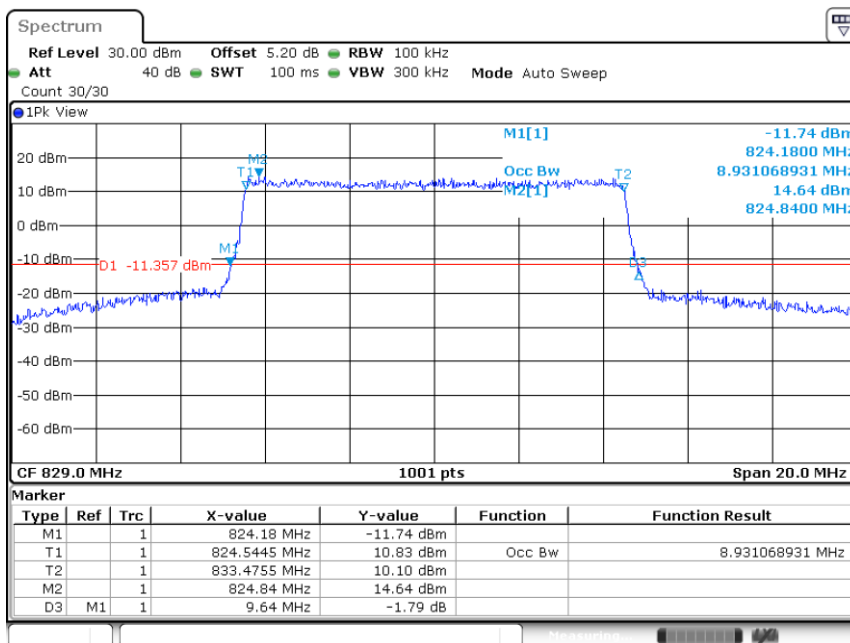


Band5-10MHz-QPSK-20600-50RB#0-8.931



Date: 4, JAN. 2021 22:31:26

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



Date: 4, JAN. 2021 22:30:47



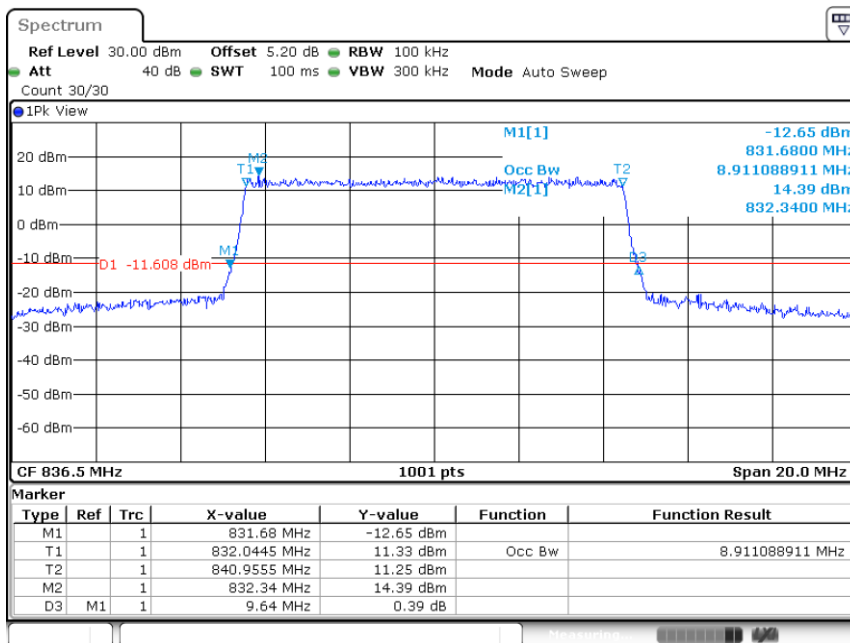
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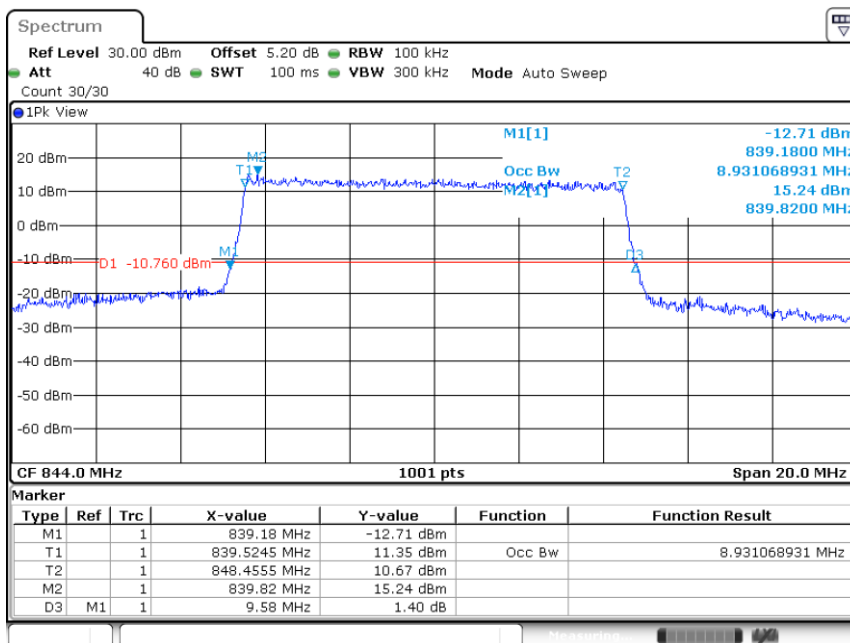


Band5-10MHz-16QAM-20525-50RB#0-8.911



Date: 4, JAN. 2021 22:31:13

Band5-10MHz-16QAM-20600-50RB#0-8.931



Date: 4, JAN. 2021 22:31:39



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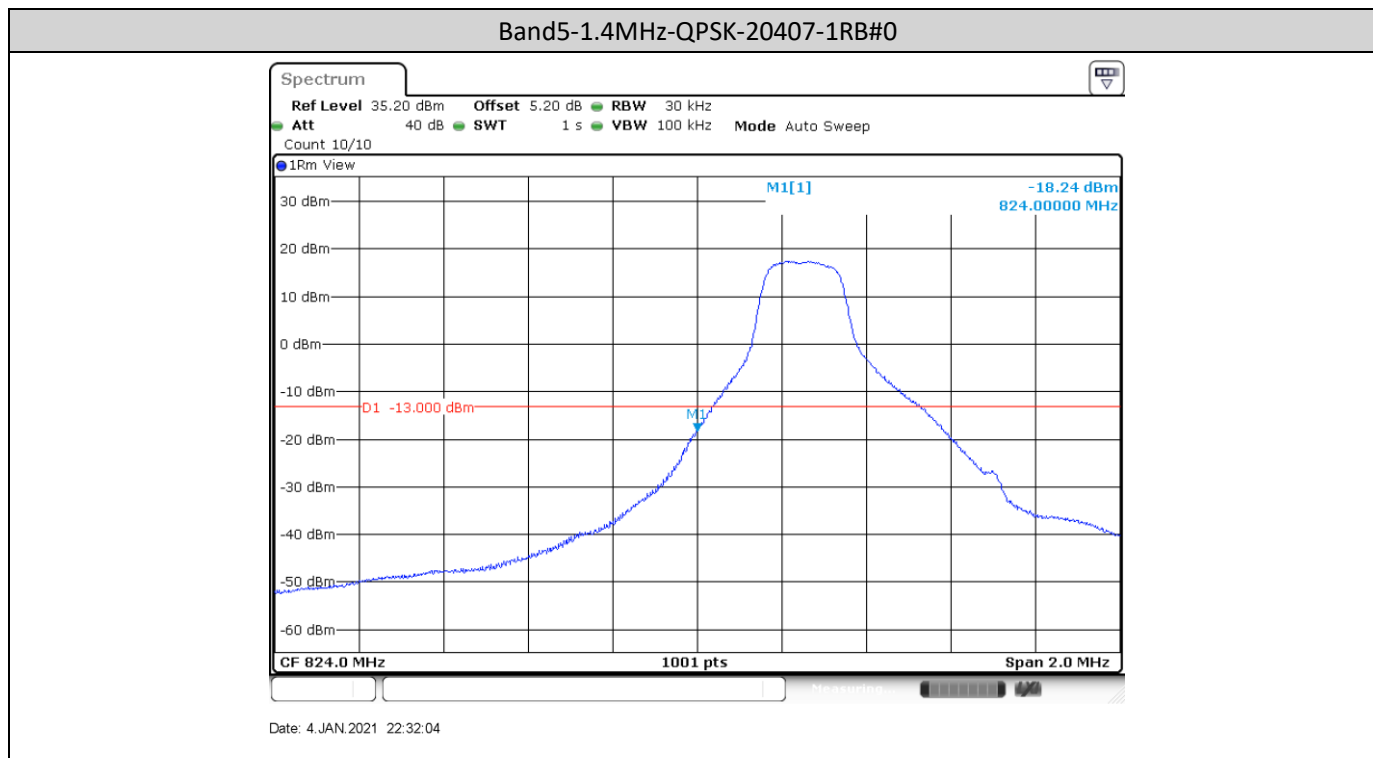
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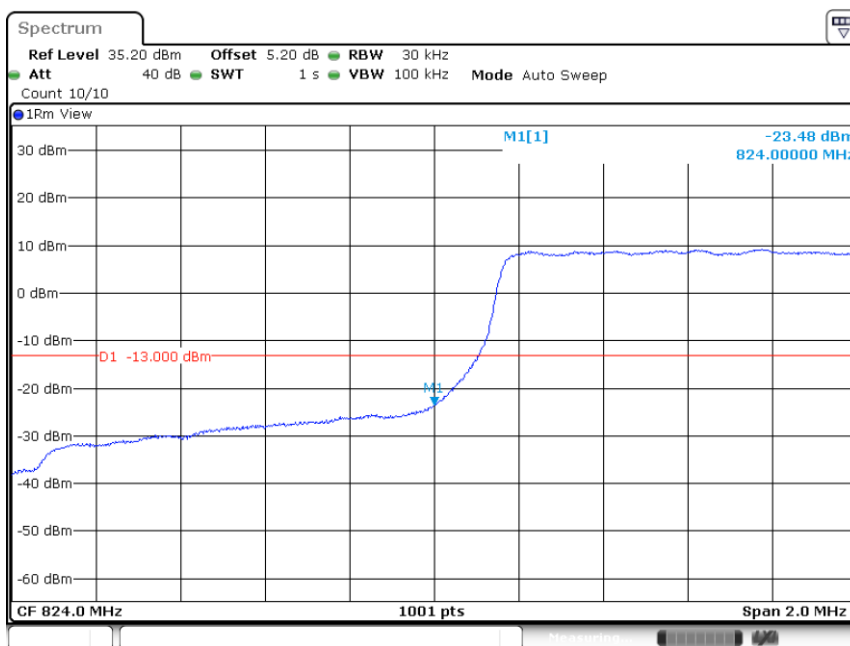
5. Band Edge Compliance

5.1. Test Plots



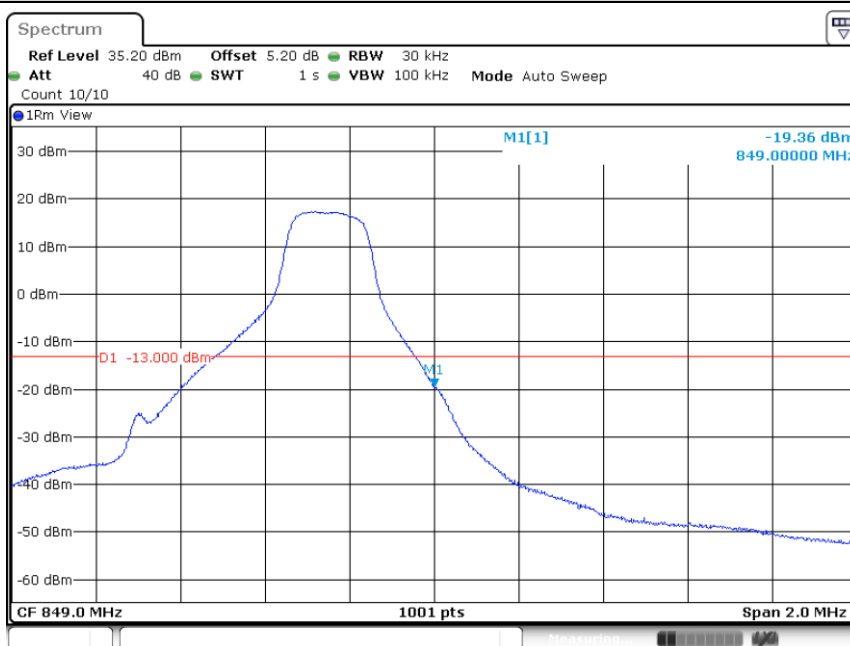


Band5-1.4MHz-QPSK-20407-6RB#0



Date: 4, JAN. 2021 22:32:45

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

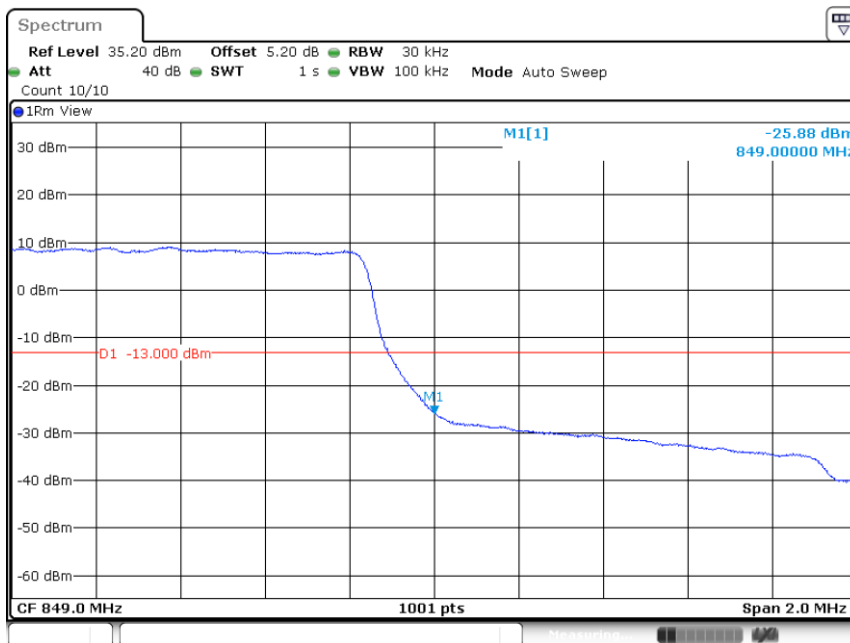


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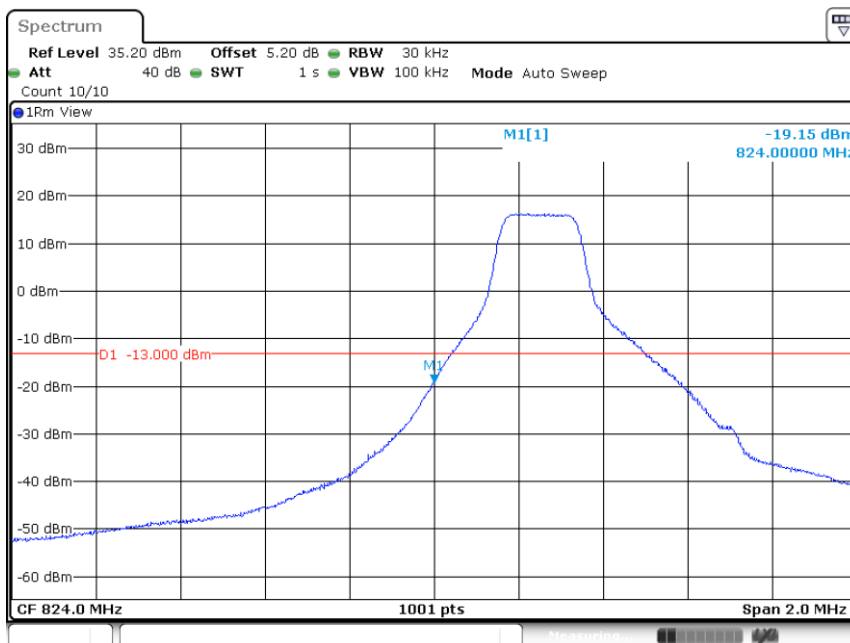


Band5-1.4MHz-QPSK-20643-6RB#0



Date: 4, JAN. 2021 22:34:11

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



Date: 4, JAN. 2021 22:32:25



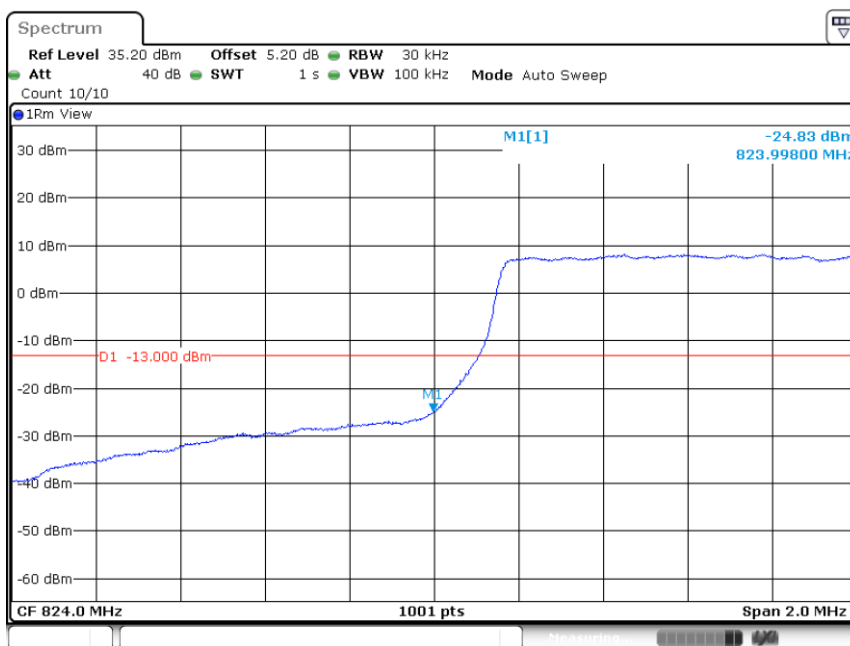
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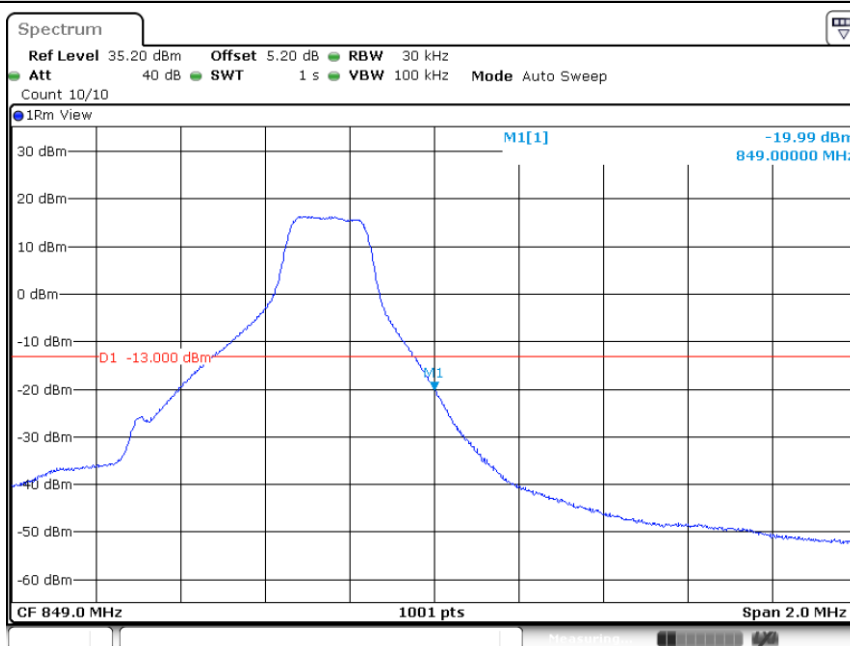


Band5-1.4MHz-16QAM-20407-6RB#0



Date: 4, JAN. 2021 22:33:06

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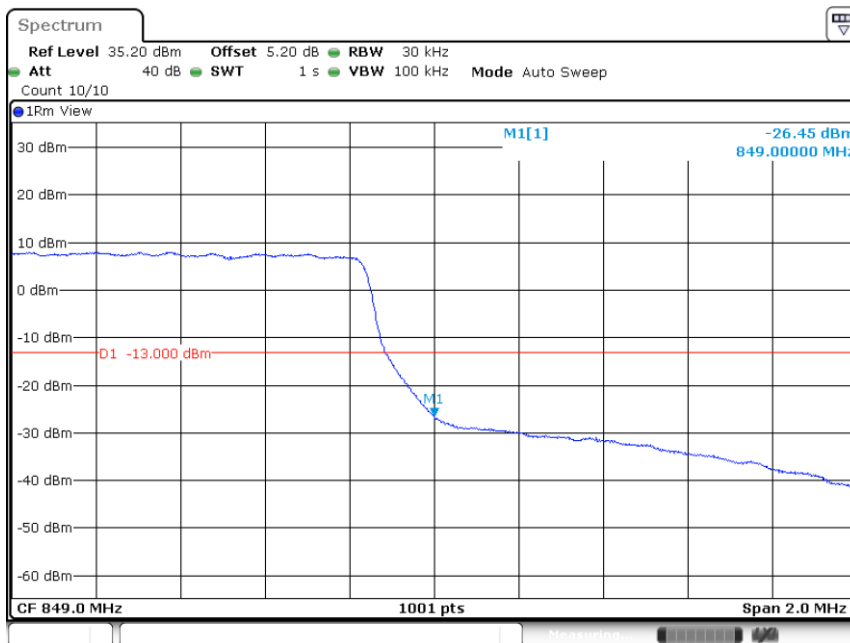


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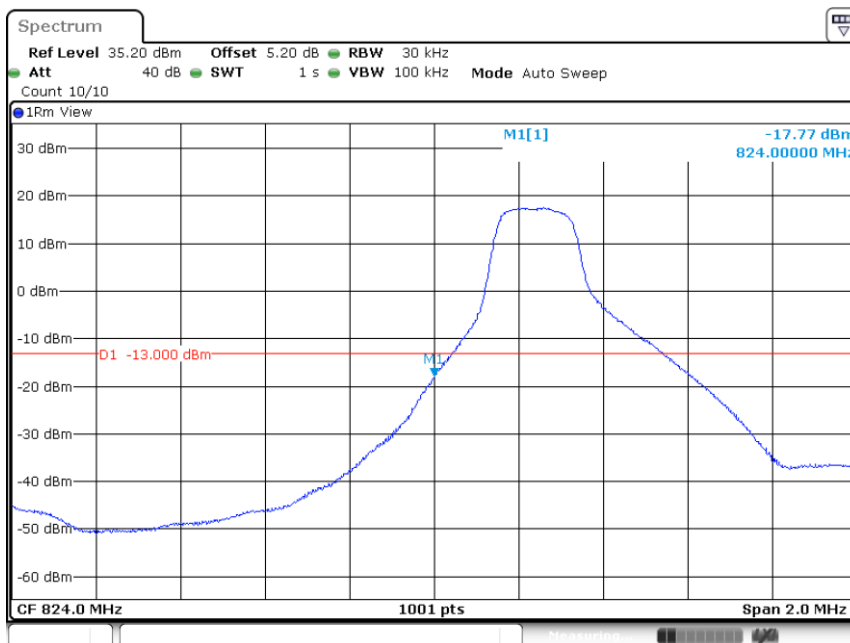


Band5-1.4MHz-16QAM-20643-6RB#0



Date: 4, JAN. 2021 22:34:32

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



Date: 4, JAN. 2021 22:34:58



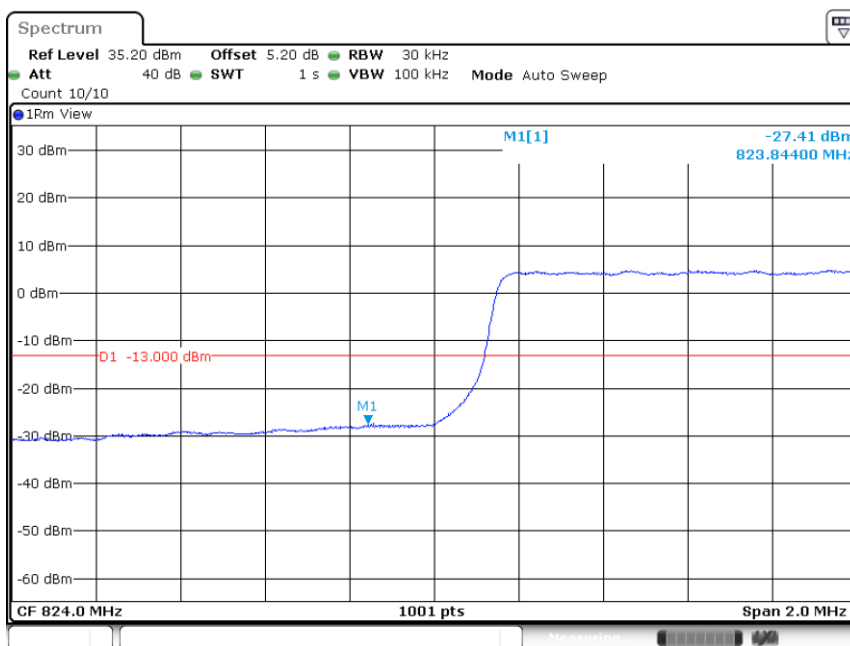
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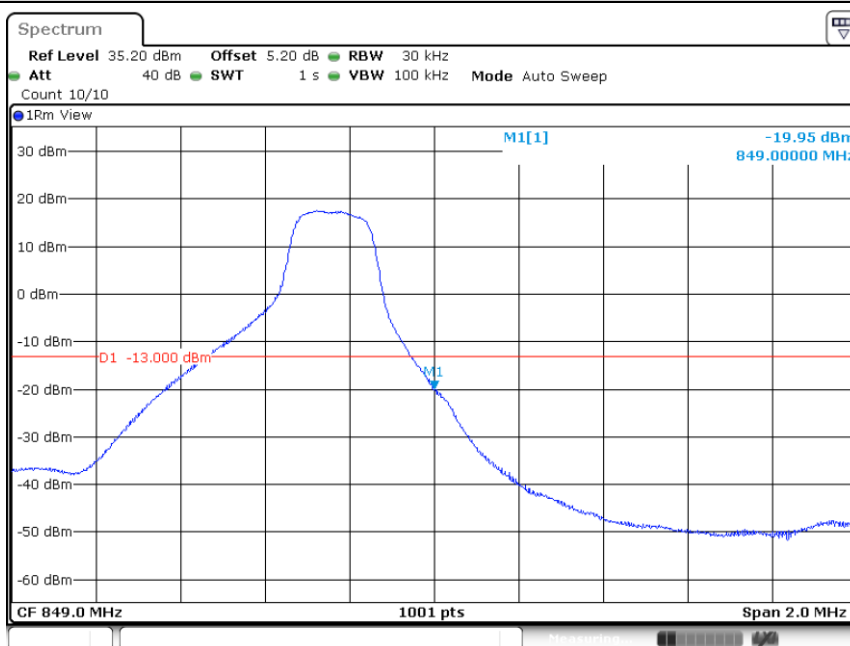


Band5-3MHz-QPSK-20415-15RB#0



Date: 4, JAN. 2021 22:35:39

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

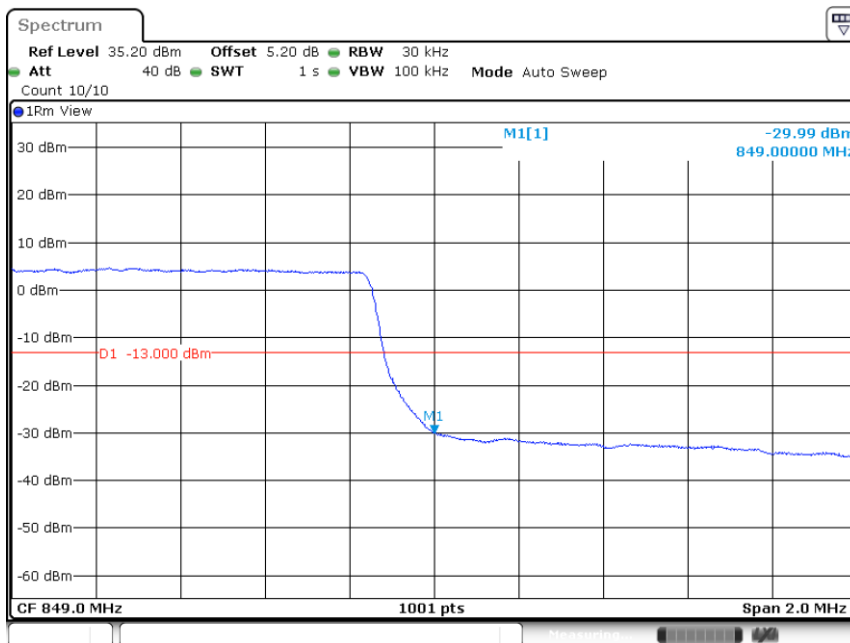


Date: 4, JAN. 2021 22:36:25



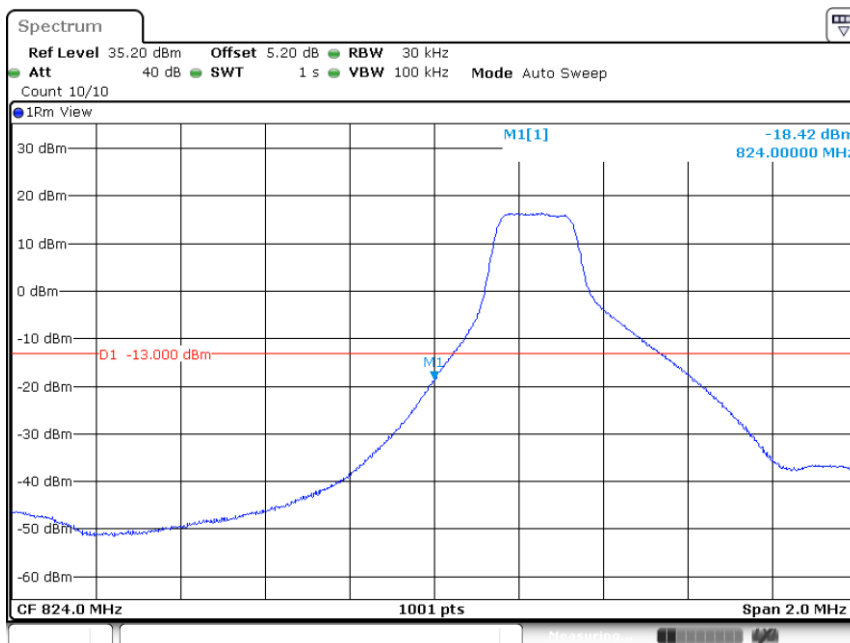


Band5-3MHz-QPSK-20635-15RB#0



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



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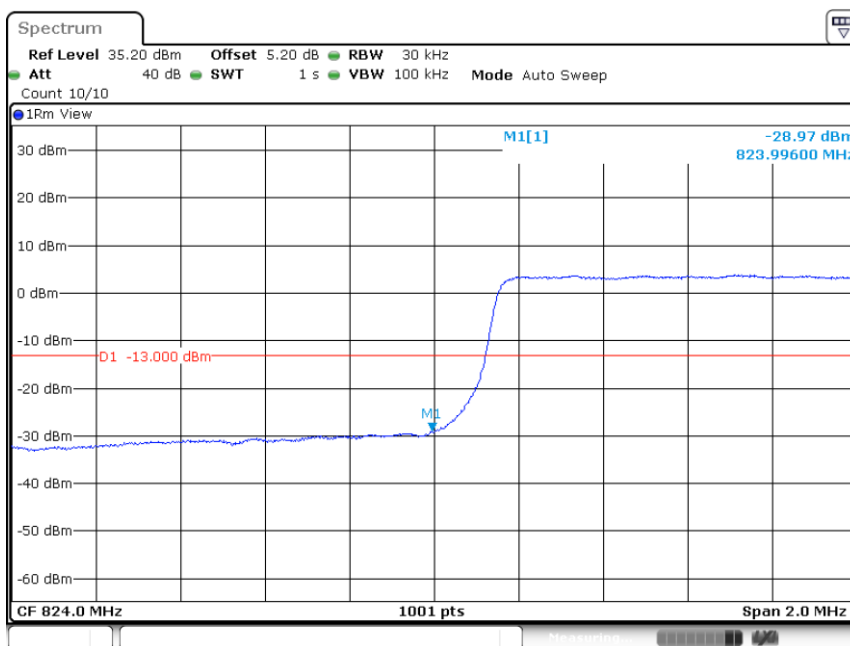
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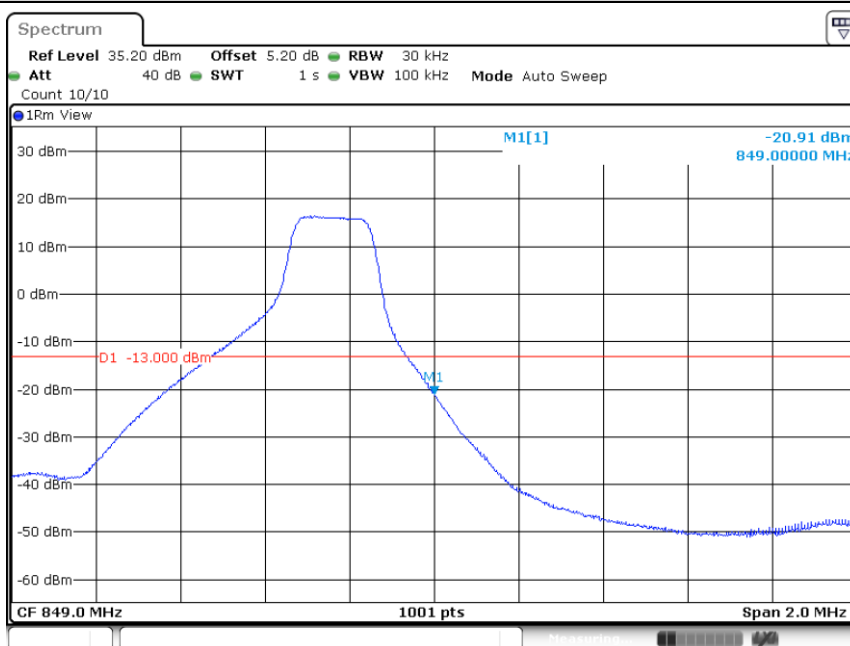


Band5-3MHz-16QAM-20415-15RB#0



Date: 4, JAN. 2021 22:36:00

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



Date: 4, JAN. 2021 22:36:45

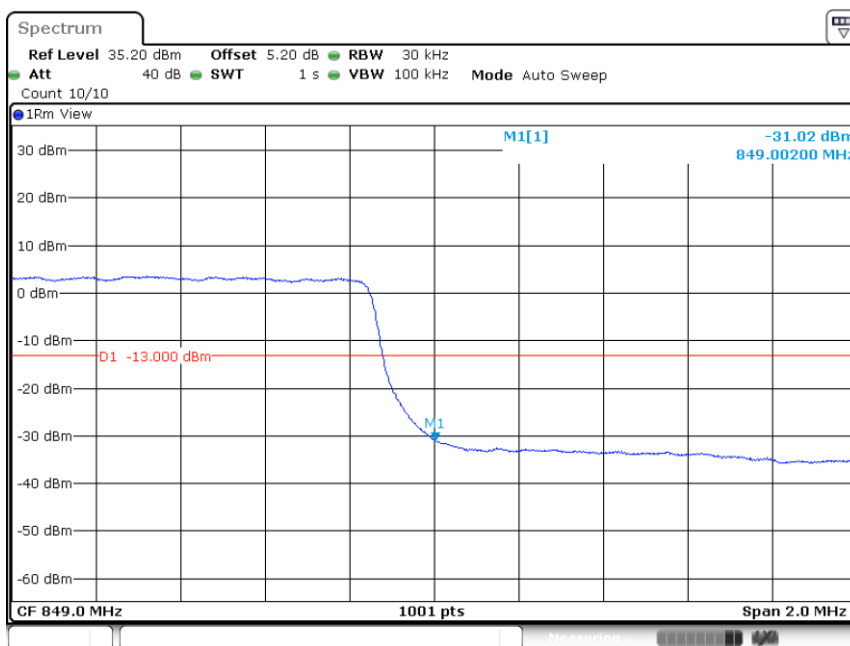


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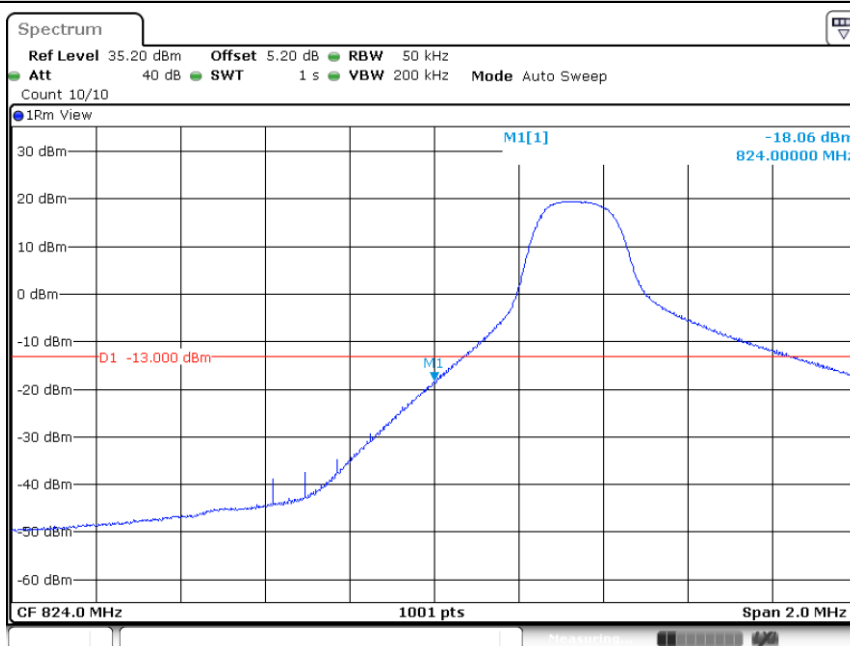


Band5-3MHz-16QAM-20635-15RB#0



Date: 4, JAN. 2021 22:37:27

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



Date: 4, JAN. 2021 22:37:53



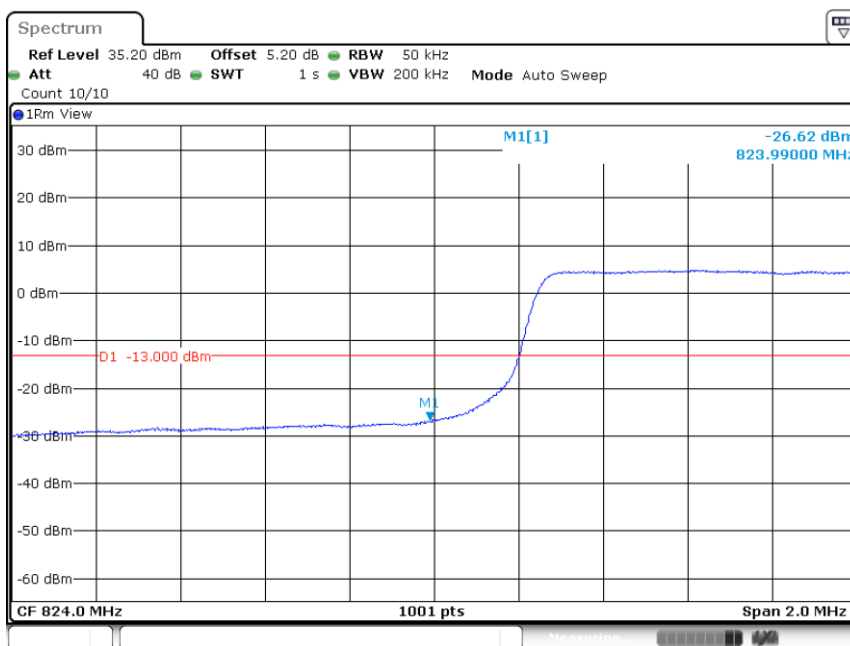
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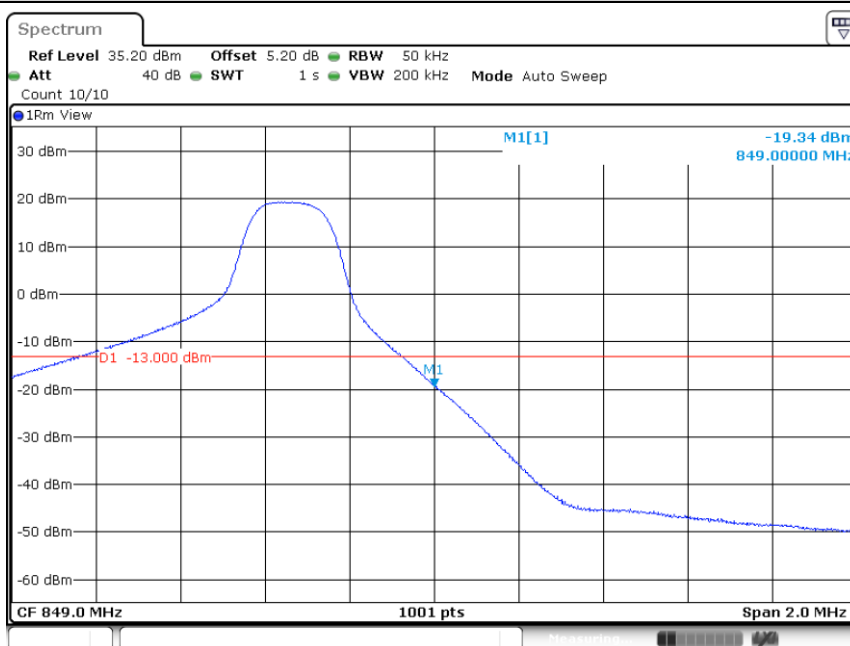


Band5-5MHz-QPSK-20425-25RB#0



Date: 4, JAN. 2021 22:38:34

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



Date: 4, JAN. 2021 22:39:20



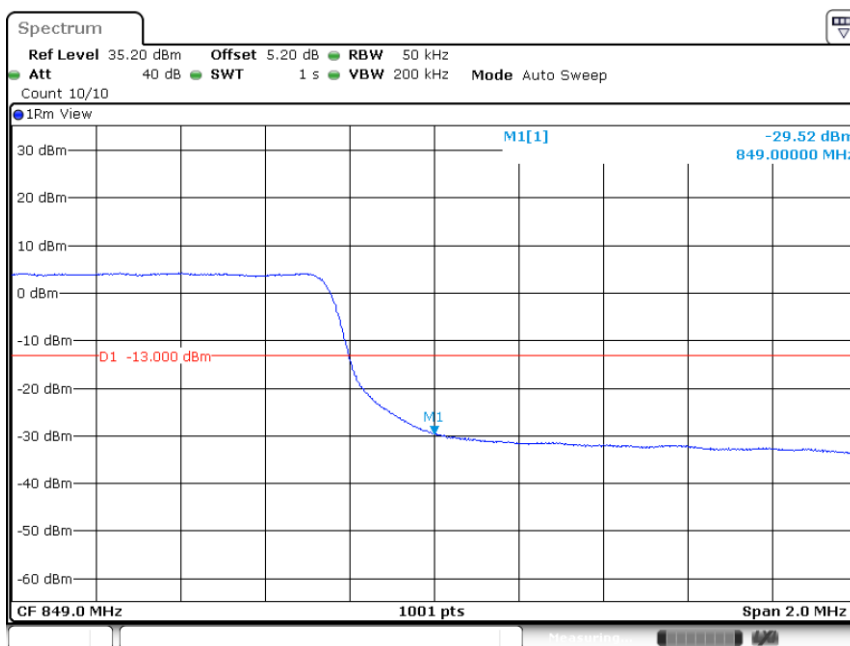
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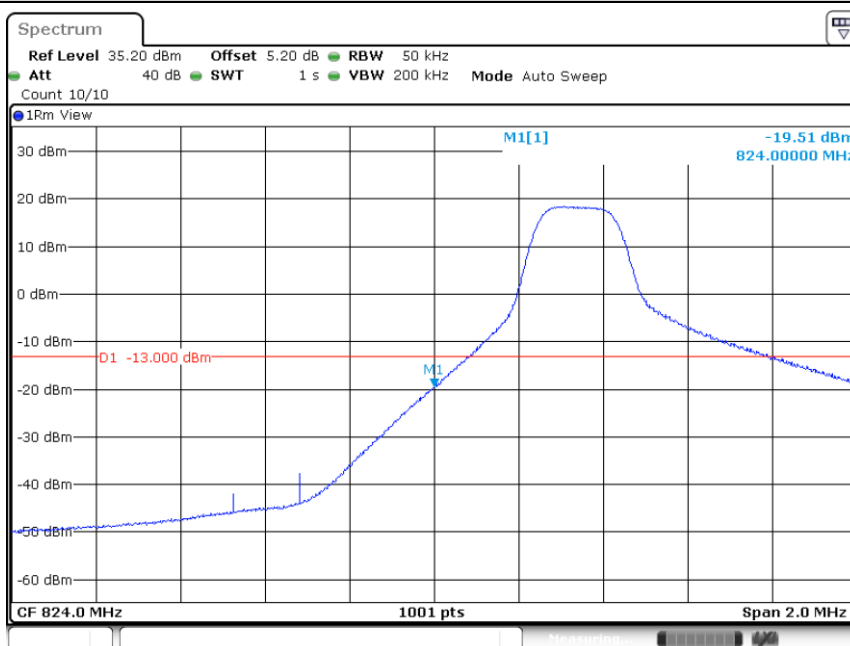


Band5-5MHz-QPSK-20625-25RB#0



Date: 4, JAN. 2021 22:40:01

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



Date: 4, JAN. 2021 22:38:13



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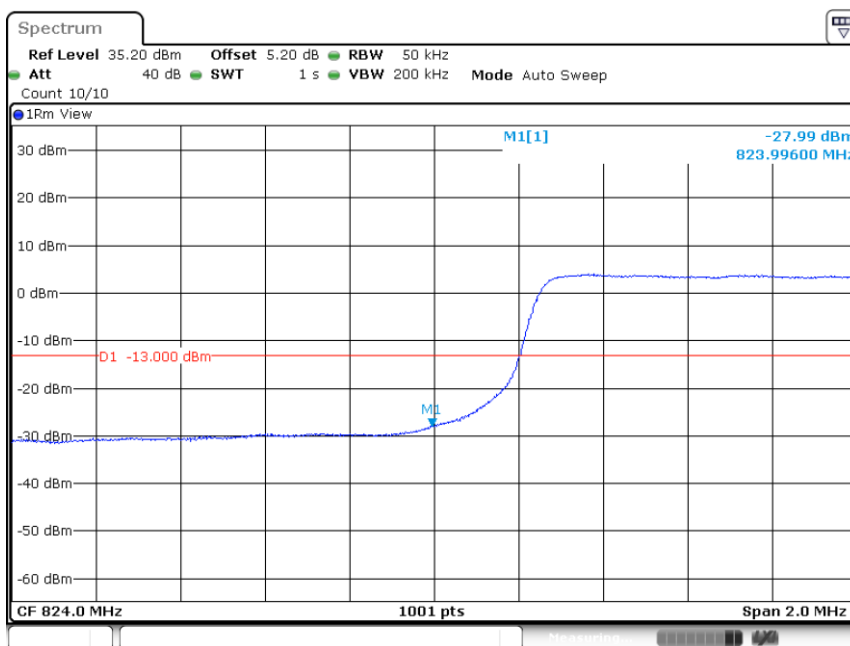
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Band5-5MHz-16QAM-20425-25RB#0



Date: 4, JAN. 2021 22:38:55

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

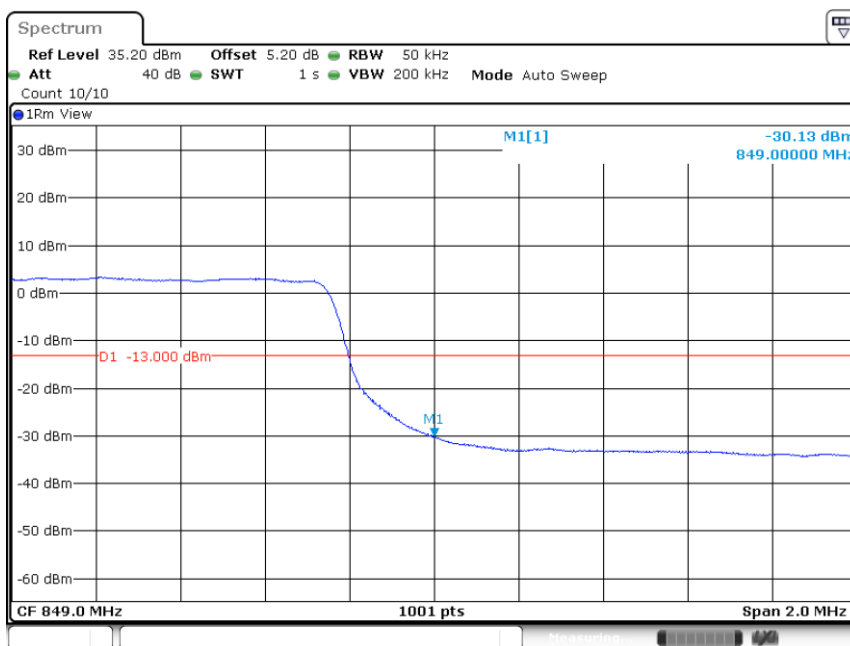


Date: 4, JAN. 2021 22:39:40



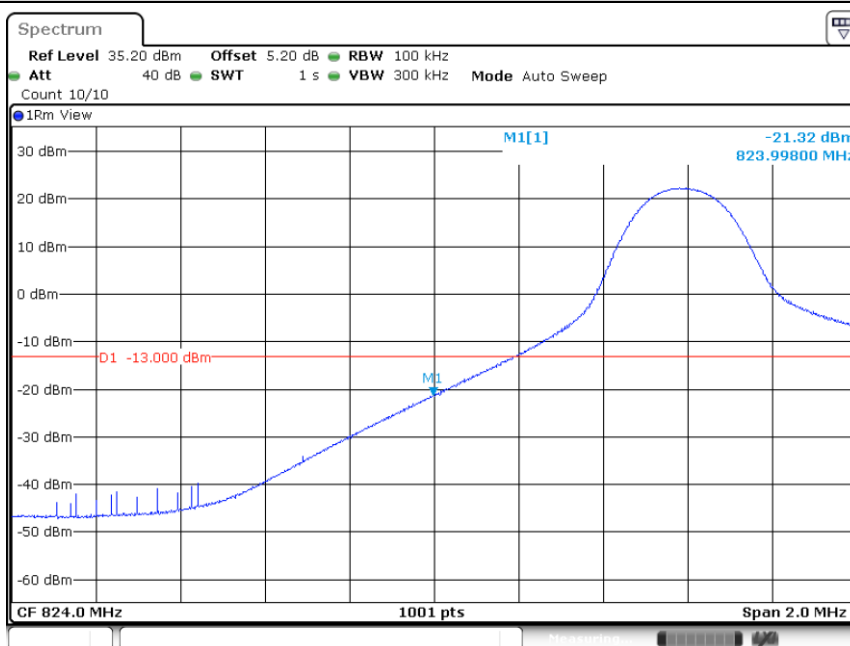


Band5-5MHz-16QAM-20625-25RB#0



Date: 4, JAN. 2021 22:40:21

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

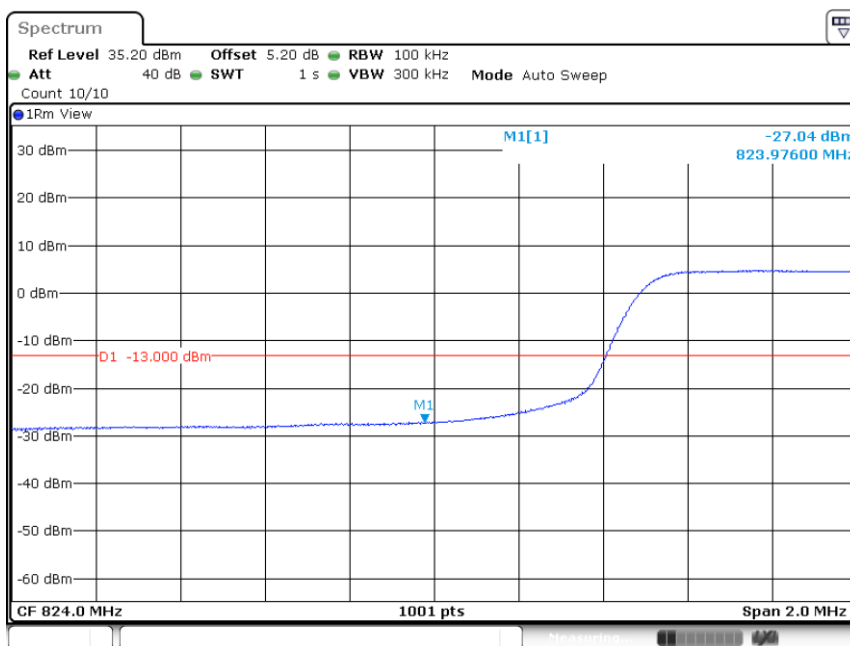


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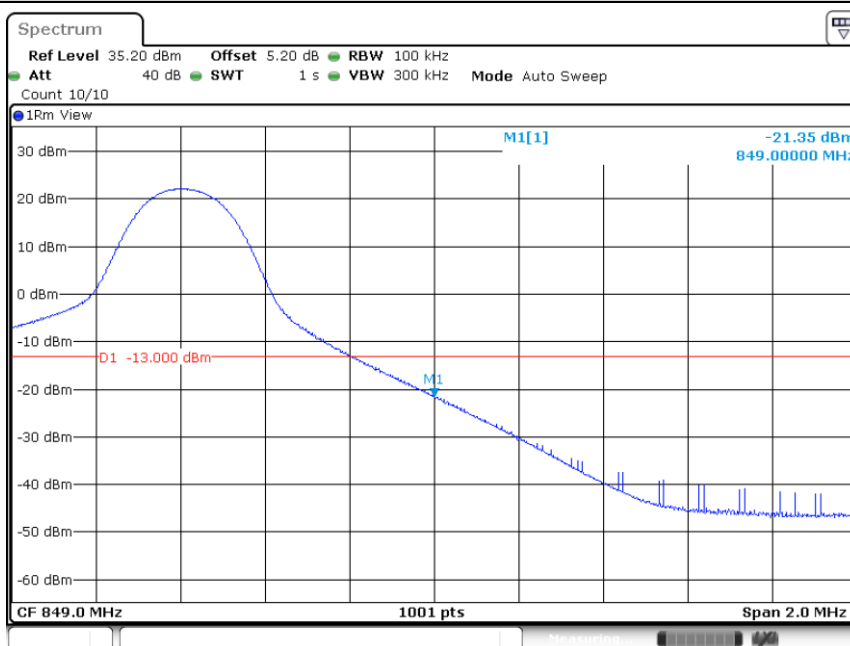


Band5-10MHz-QPSK-20450-50RB#0



Date: 4, JAN. 2021 22:41:28

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



Date: 4, JAN. 2021 22:42:13



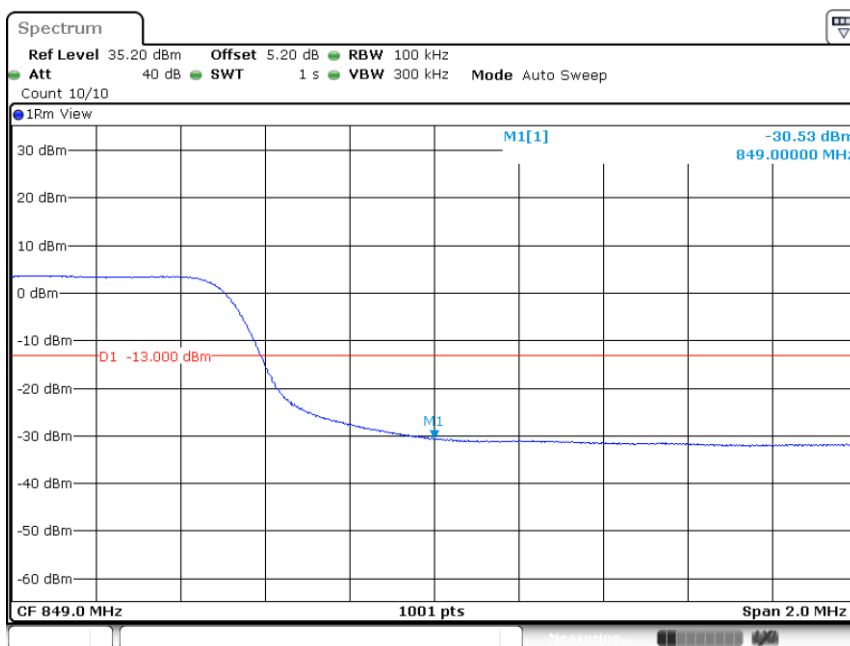
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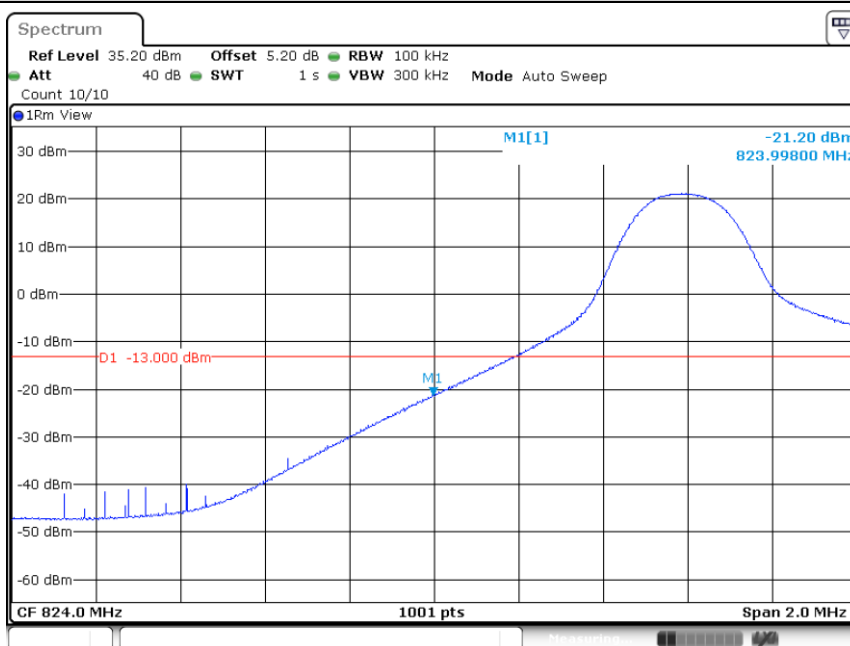


Band5-10MHz-QPSK-20600-50RB#0



Date: 4, JAN. 2021 22:42:54

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



Date: 4, JAN. 2021 22:41:07



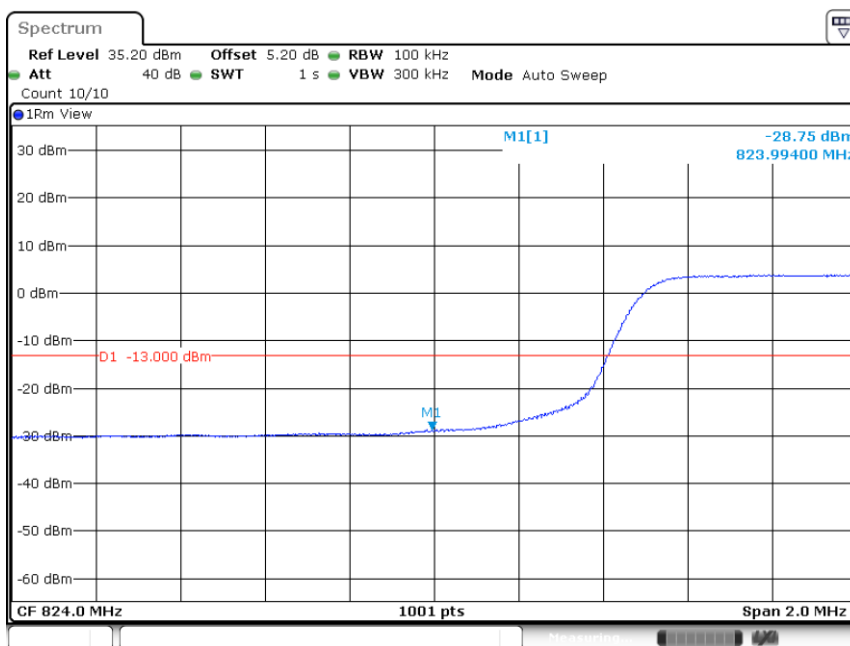
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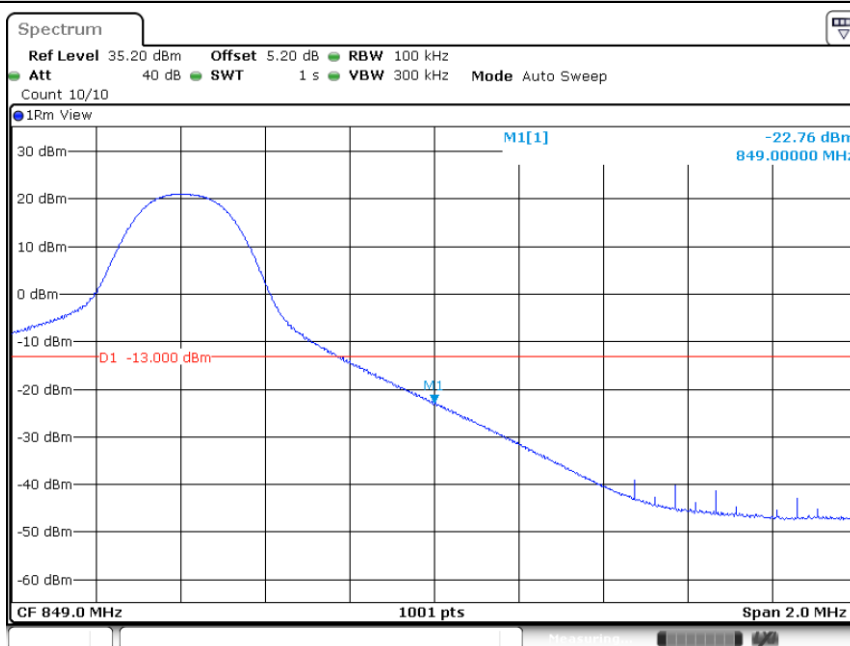


Band5-10MHz-16QAM-20450-50RB#0



Date: 4, JAN. 2021 22:41:48

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



Date: 4, JAN. 2021 22:42:34



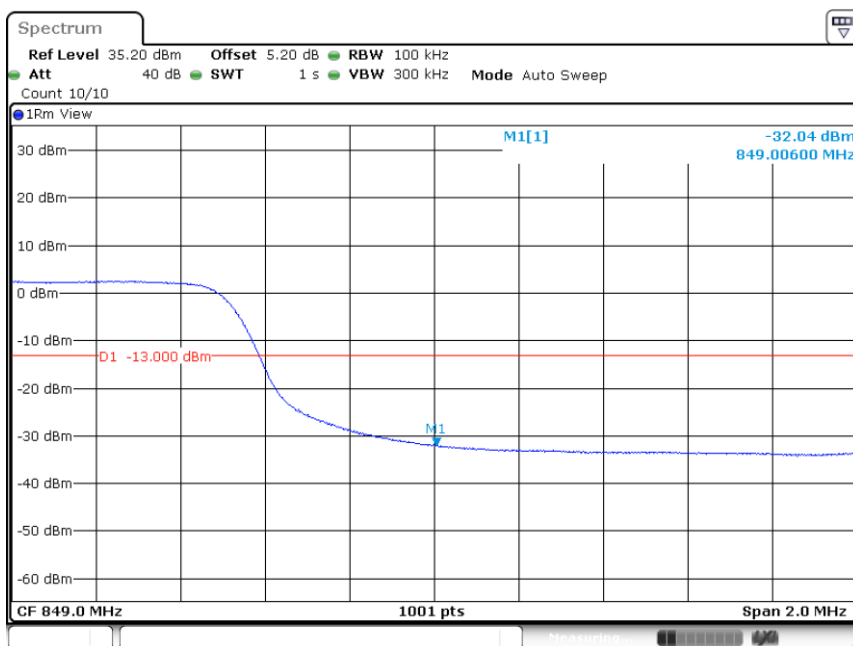
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Band5-10MHz-16QAM-20600-50RB#0



Date: 4 JAN.2021 22:43:15



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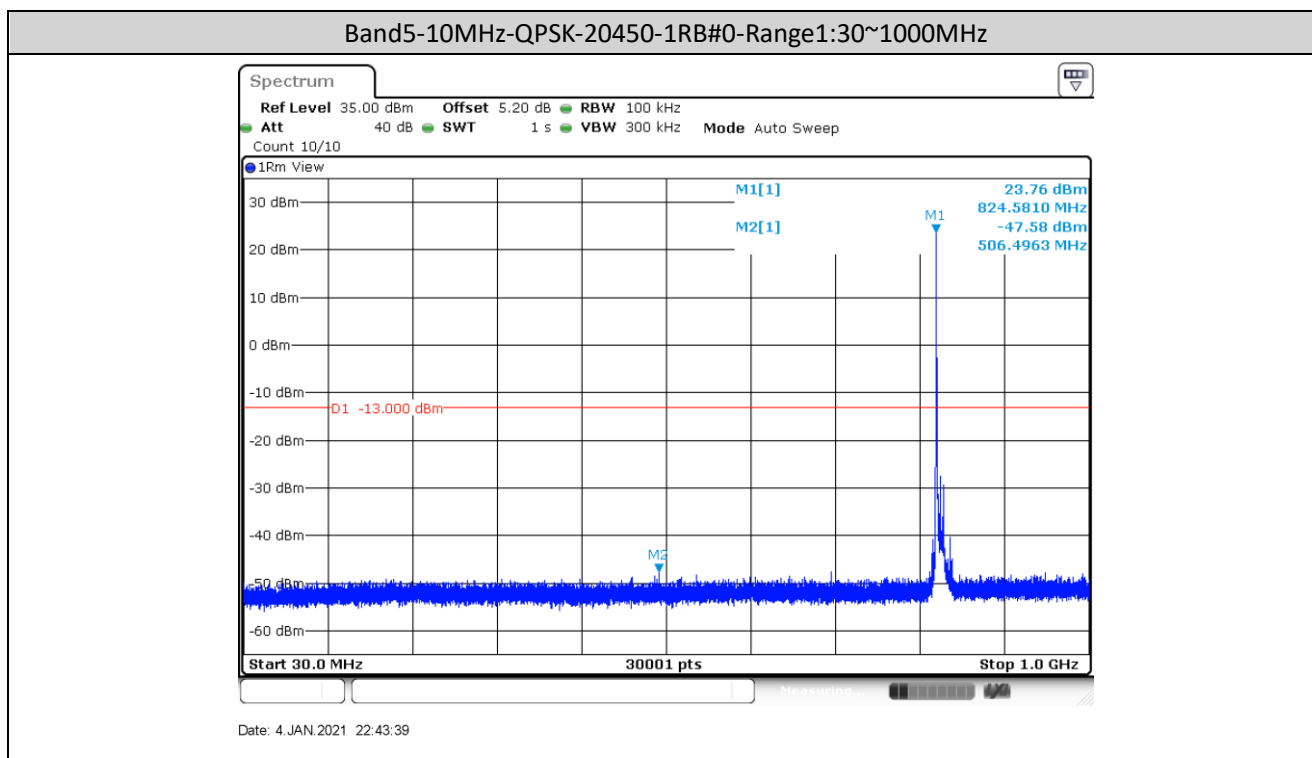
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6. Spurious Emission at Antenna Terminal

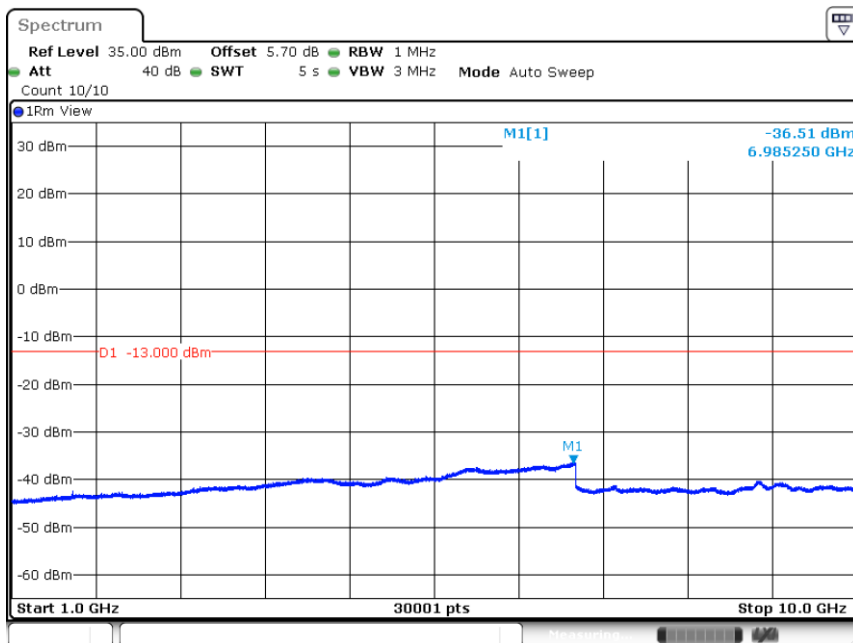
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

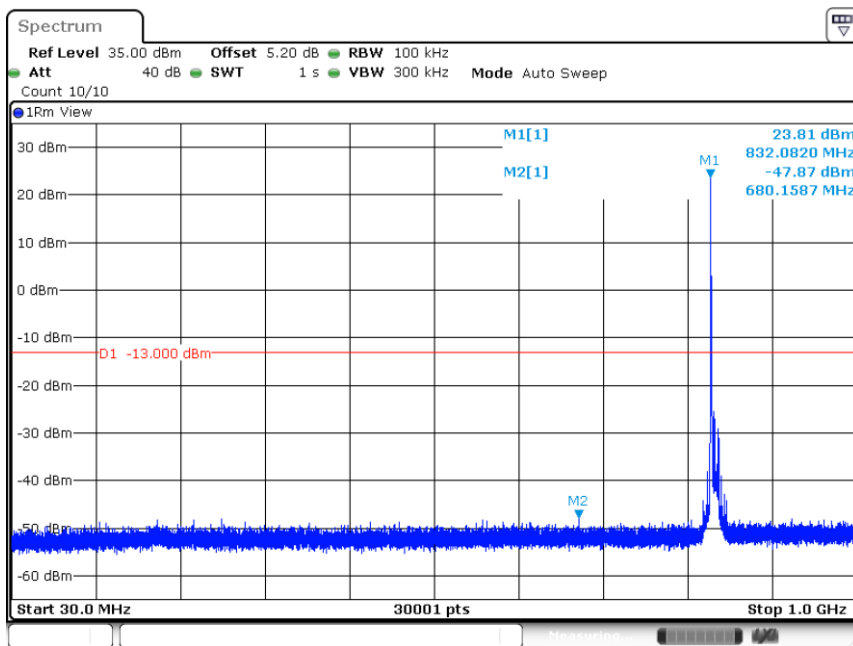


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 22:44:46

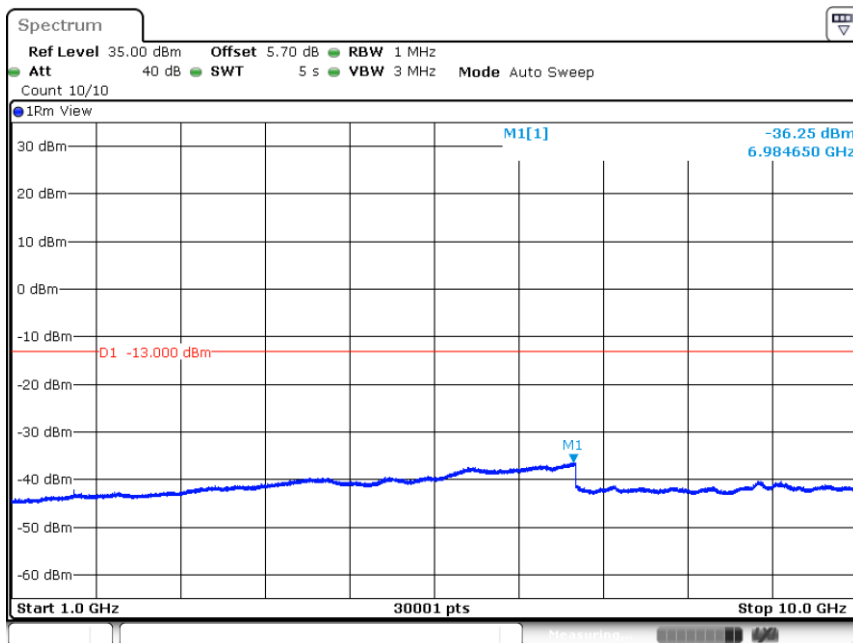
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 22:46:33

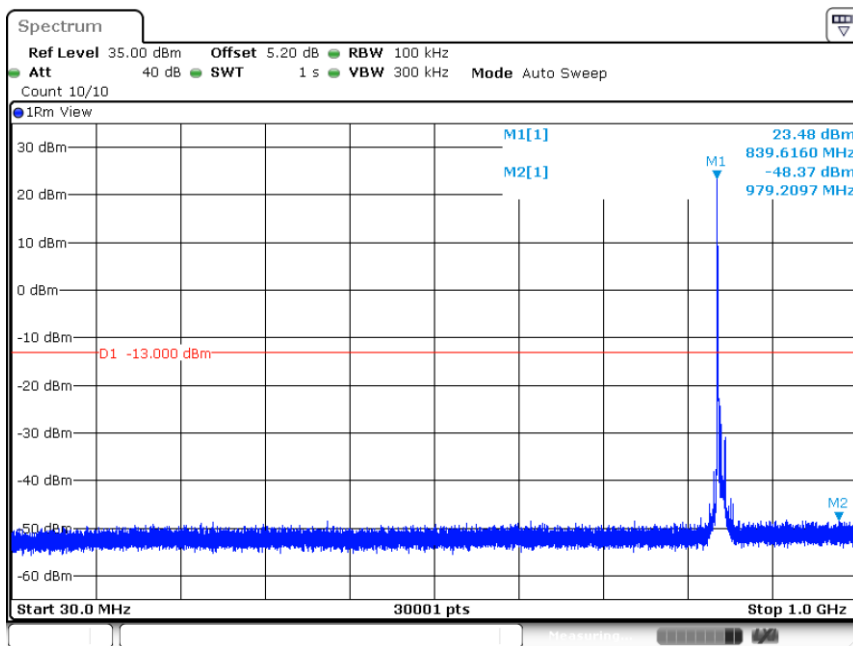


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 22:47:40

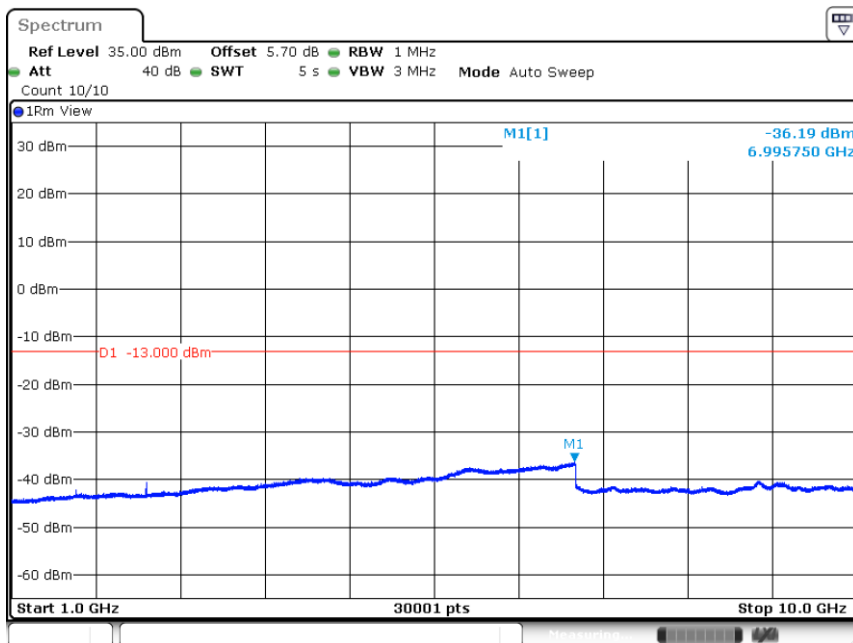
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Date: 4, JAN. 2021 22:49:27

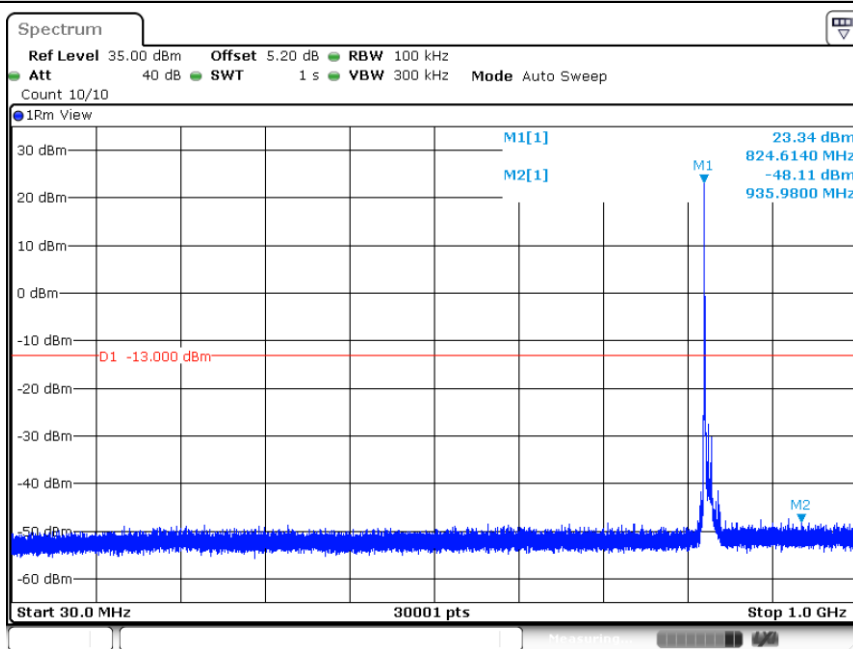


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 22:50:34

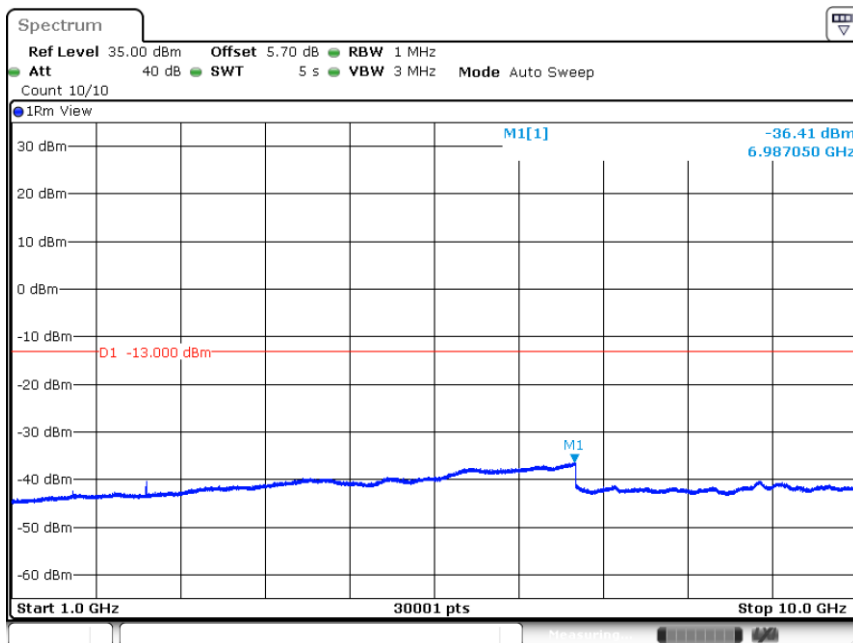
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



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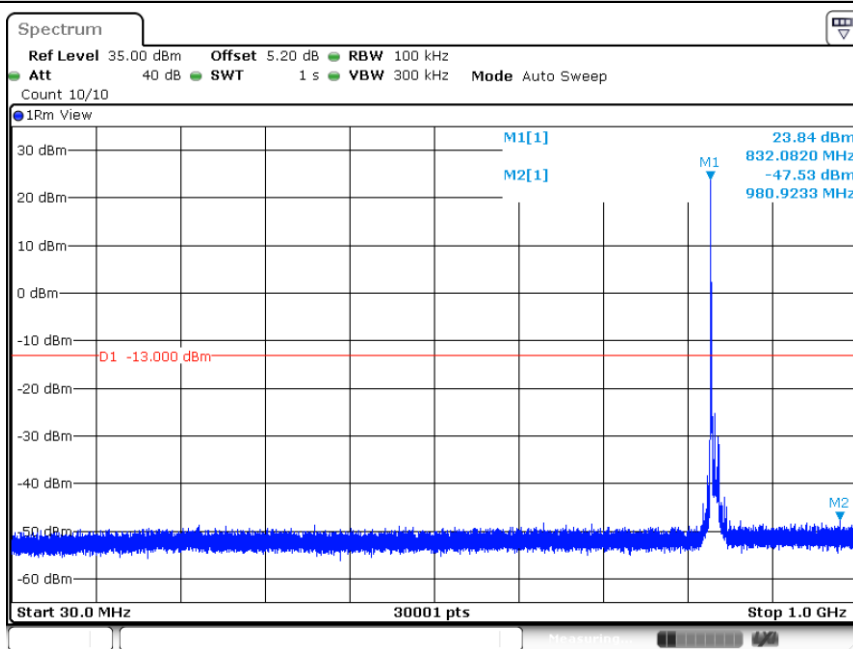


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 22:46:13

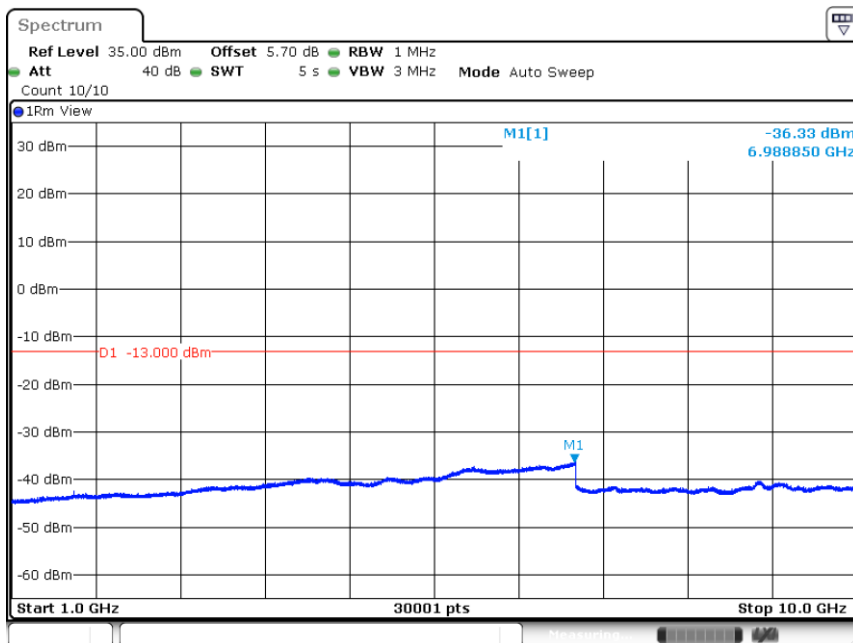
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 22:48:00

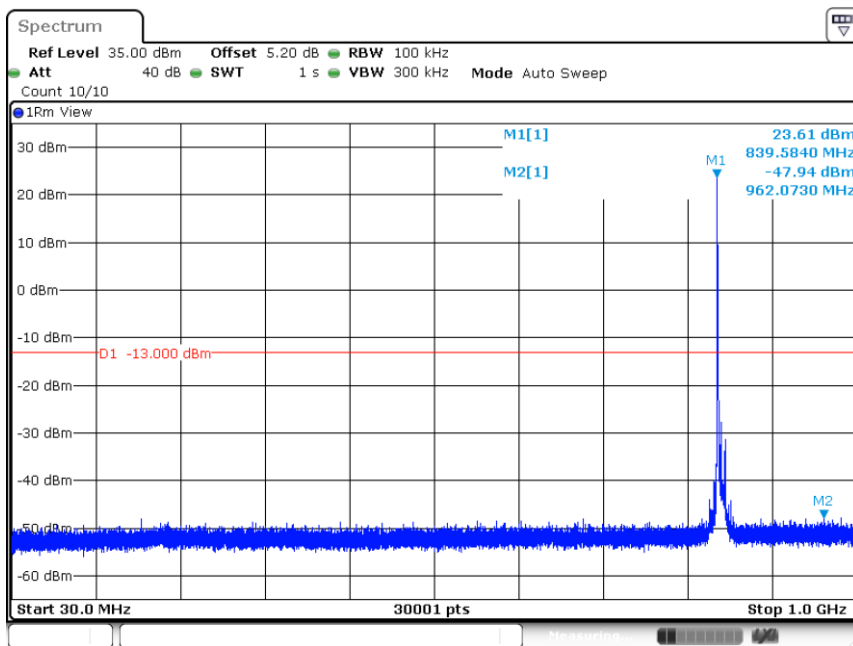


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 22:49:07

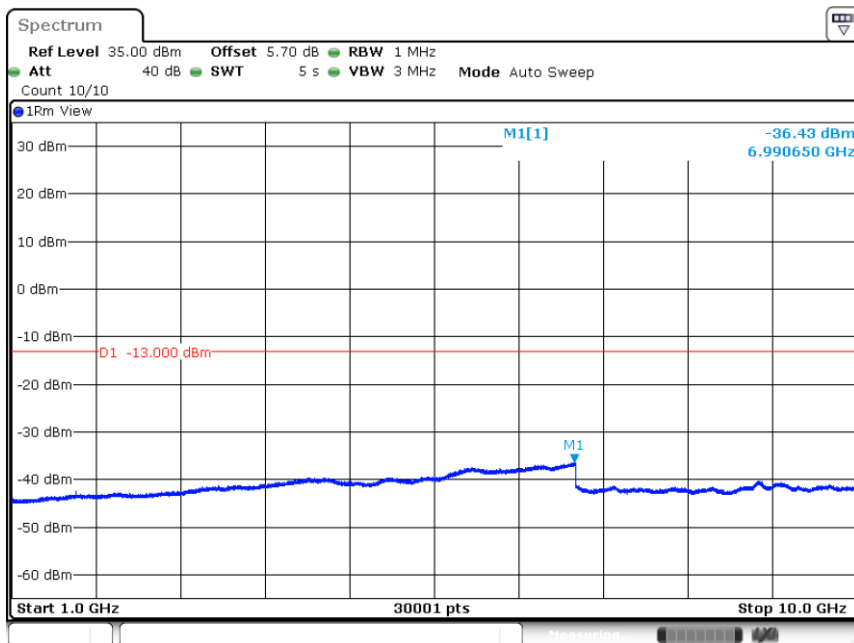
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 22:50:54



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



Date: 4 JAN. 2021 22:52:01



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_5_TM1

7.1.1. Test Channel = Low Channel

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.2112	-60.08	-13.00	47.08	174	139	Horizontal
2	240.0155	-64.70	-13.00	51.70	159	189	Horizontal
3	1649.3299	-60.62	-13.00	47.62	162	333	Horizontal
4	2473.8948	-56.15	-13.00	43.15	187	333	Horizontal
5	7446.7816	-56.00	-13.00	43.00	166	243	Horizontal
6	9311.4104	-52.60	-13.00	39.60	192	189	Horizontal



7.2. Test Band = LTE_5_TM1**7.2.1. Test Channel = Low Channel**

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.4769	-61.84	-13.00	48.84	274	315	Vertical
2	581.9576	-61.05	-13.00	48.05	265	178	Vertical
3	1649.3299	-60.40	-13.00	47.40	284	143	Vertical
4	2473.8948	-53.94	-13.00	40.94	268	90	Vertical
5	5772.0924	-60.19	-13.00	47.19	279	49	Vertical
6	9760.8254	-52.14	-13.00	39.14	236	231	Vertical



7.3. Test Band = LTE_5_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5807	-61.48	-13.00	48.48	198	242	Horizontal
2	232.3036	-64.71	-13.00	51.71	174	342	Horizontal
3	602.4256	-60.05	-13.00	47.05	162	7	Horizontal
4	1664.1328	-59.55	-13.00	46.55	188	16	Horizontal
5	2496.6993	-53.30	-13.00	40.30	169	338	Horizontal
6	9545.9182	-52.75	-13.00	39.75	178	142	Horizontal



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7.4. Test Band = LTE_5_TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.8560	-67.16	-13.00	54.16	274	11	Vertical
2	107.6039	-62.15	-13.00	49.15	256	179	Vertical
3	595.8293	-60.32	-13.00	47.32	284	230	Vertical
4	1664.1328	-59.34	-13.00	46.34	265	140	Vertical
5	2496.2993	-54.43	-13.00	41.43	287	52	Vertical
6	9315.1438	-53.05	-13.00	40.05	231	43	Vertical



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7.5. Test Band = LTE_5_TM1**7.5.1. Test Channel = High Channel**

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.4052	-61.77	-13.00	48.77	174	243	Horizontal
2	229.3450	-63.92	-13.00	50.92	165	86	Horizontal
3	631.9636	-59.71	-13.00	46.71	184	275	Horizontal
4	1679.3359	-58.32	-13.00	45.32	196	17	Horizontal
5	2518.7037	-54.11	-13.00	41.11	174	343	Horizontal
6	8013.3338	-56.73	-13.00	43.73	185	275	Horizontal



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7.6. Test Band = LTE_5_TM1**7.6.1. Test Channel = High Channel**

Suspected Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.4841	-61.11	-13.00	48.11	271	286	Vertical
2	681.6786	-59.82	-13.00	46.82	222	286	Vertical
3	1678.9358	-58.38	-13.00	45.38	264	29	Vertical
4	2519.1038	-52.19	-13.00	39.19	281	75	Vertical
5	5877.0959	-59.33	-13.00	46.33	236	56	Vertical
6	9555.2518	-52.91	-13.00	39.91	274	286	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.





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	-10.70	-0.012907	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-7.40	-0.008926	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-8.10	-0.009683	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-11.90	-0.014226	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-12.20	-0.014585	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-6.80	-0.008057	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-7.40	-0.008768	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-8.40	-0.010133	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-3.50	-0.004184	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-5.60	-0.006635	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-8.30	-0.009834	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-9.10	-0.010782	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-6.60	-0.007961	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-3.40	-0.004101	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-11.60	-0.013993	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-6.90	-0.008323	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-4.10	-0.004946	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-4.80	-0.005790	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-6.40	-0.007720	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-10.60	-0.012786	±2.5	PASS



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Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-8.80	-0.010520	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-11.90	-0.014226	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-5.20	-0.006216	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-9.80	-0.011715	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-9.00	-0.010759	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-8.90	-0.010640	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-8.50	-0.010161	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-6.40	-0.007583	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-4.90	-0.005806	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-2.80	-0.003318	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-8.30	-0.009834	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-8.20	-0.009716	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-6.10	-0.007227	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-4.80	-0.005687	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-8.60	-0.010374	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-5.90	-0.007117	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-3.70	-0.004463	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-4.10	-0.004946	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-1.80	-0.002171	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-8.50	-0.010253	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-6.10	-0.007358	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-6.70	-0.008082	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-8.10	-0.009683	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-5.20	-0.006216	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-7.40	-0.008846	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-4.50	-0.005380	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-7.10	-0.008488	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-5.20	-0.006216	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-5.40	-0.006398	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-5.50	-0.006517	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-9.00	-0.010664	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-9.00	-0.010664	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-4.80	-0.005687	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-4.80	-0.005687	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-1.00	-0.001185	±2.5	PASS



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