

Appendix B

E-UTRA Band 5



CONTENT

1	EFFECTIVE (ISOTROPIC) RADIATED POWER.....	4
1.1.	TEST RESULT.....	4
2.	PEAK-TO-AVERAGE RATIO (CCDF).....	10
2.1.	TEST RESULT.....	10
2.2.	TEST PLOTS.....	10
3.	MODULATION CHARACTERISTICS.....	14
3.1.	TEST MODE = LTE /TM1 10MHZ.....	14
3.1.1.	TEST CHANNEL = MCH.....	14
3.2.	TEST MODE = LTE /TM2 10MHZ.....	15
3.2.1.	TEST CHANNEL = MCH.....	15
4.	26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	16
4.1.	TEST RESULT.....	16
4.2.	TEST PLOTS.....	17
5.	BAND EDGE COMPLIANCE.....	29
5.1.	TEST PLOTS.....	29
6.	SPURIOUS EMISSION AT ANTENNA TERMINAL.....	46
6.1.	TEST PLOTS.....	46
7.	FIELD STRENGTH OF SPURIOUS RADIATION.....	53
7.1.	Test Band = LTE_5 _TM1.....	53
7.1.1.	Test Channel = Low Channel.....	53
7.2.	Test Band = LTE_5 _TM1.....	54
7.2.1.	Test Channel = Low Channel.....	54
7.3.	Test Band = LTE_5 _TM1.....	55
7.3.1.	Test Channel = Mid Channel.....	55
7.4.	Test Band = LTE_5 _TM1.....	56
7.4.1.	Test Channel = Mid Channel.....	56
7.5.	Test Band = LTE_5 _TM1.....	57
7.5.1.	Test Channel = High Channel.....	57
7.6.	Test Band = LTE_5 _TM1.....	58
7.6.1.	Test Channel = High Channel.....	58



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8.	FREQUENCY STABILITY.....	59
8.1.	FREQUENCY VS VOLTAGE.....	59
8.2.	FREQUENCY VS TEMPERATURE	59



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	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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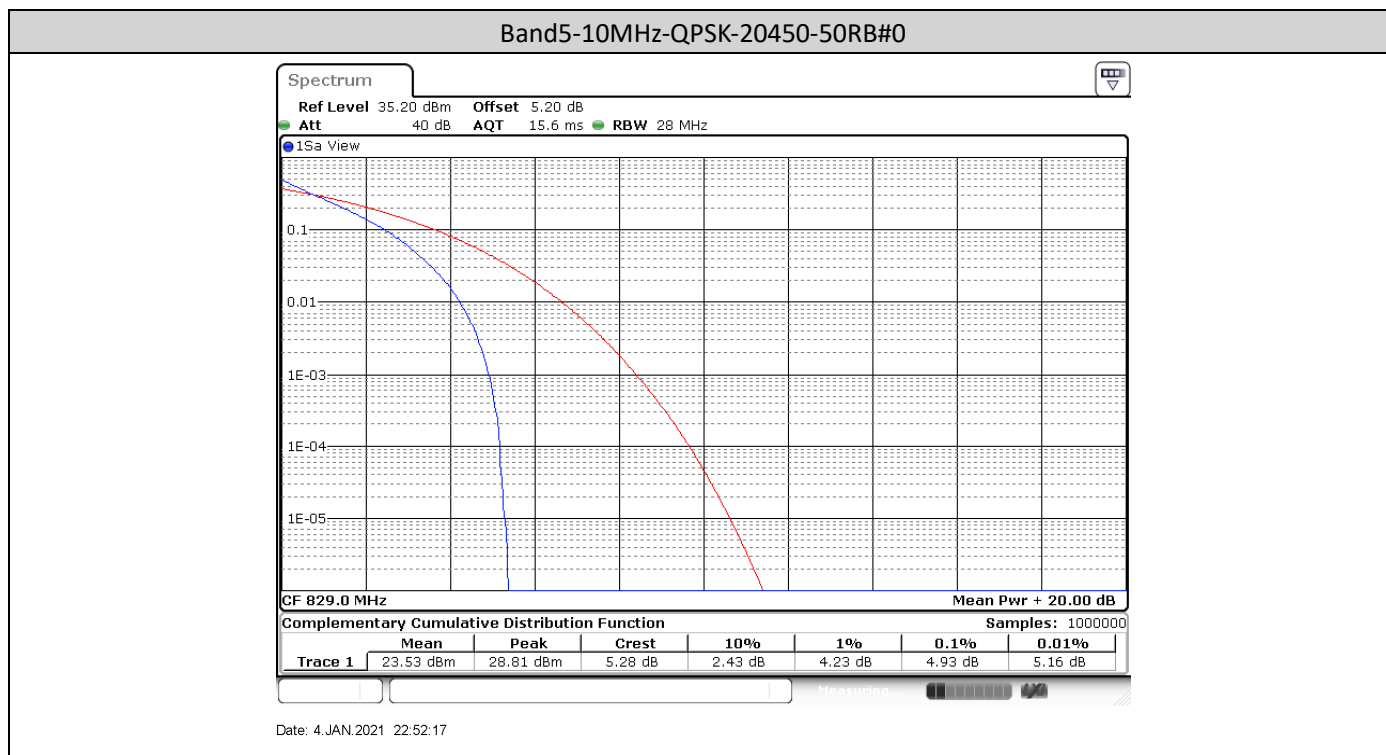


2. Peak-to-Average Ratio (CCDF)

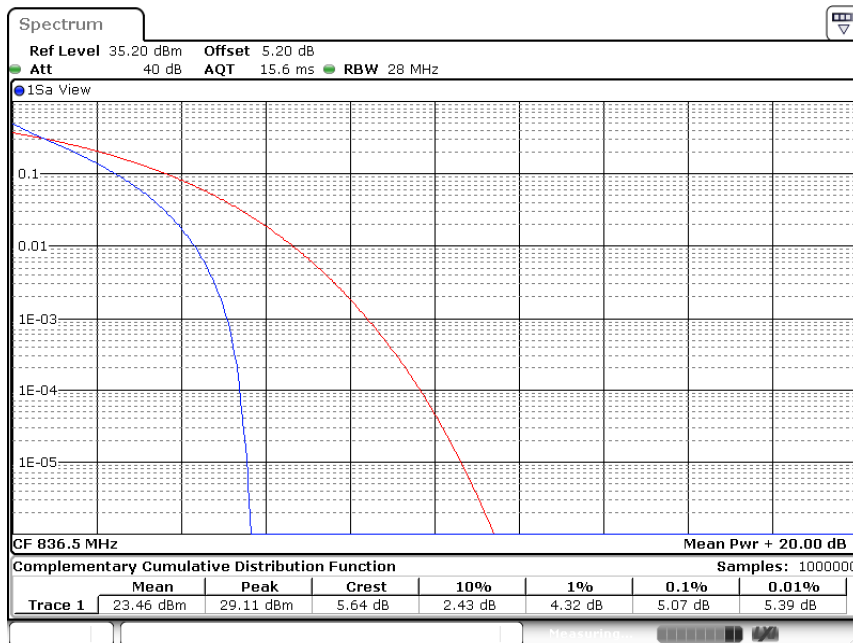
2.1. Test Result

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

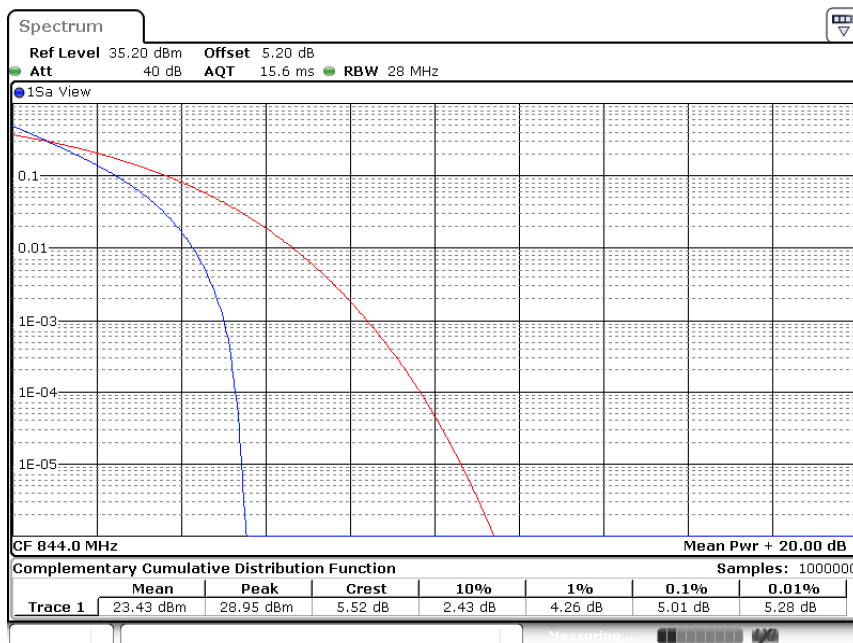


Band5-10MHz-QPSK-20525-50RB#0



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

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

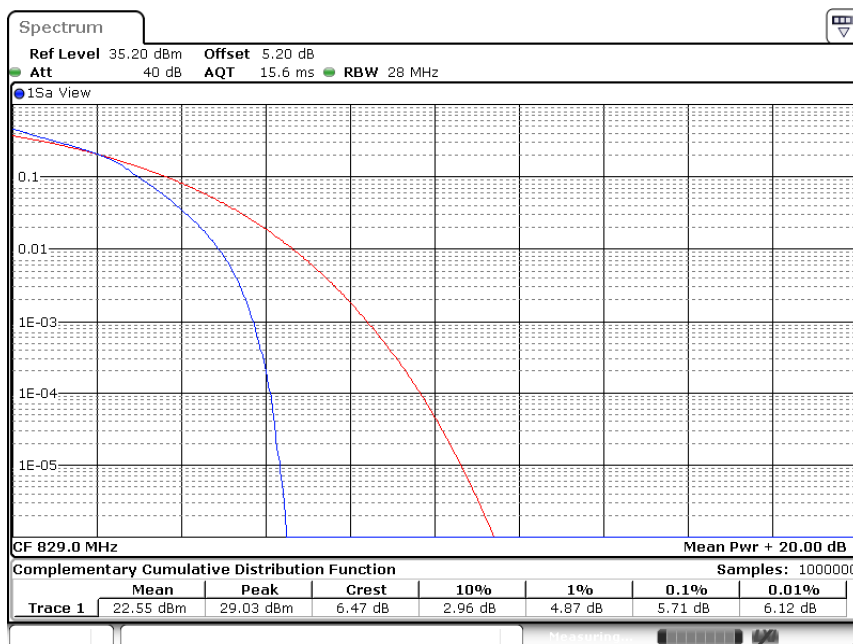


Date: 4.JAN.2021 22:53:02



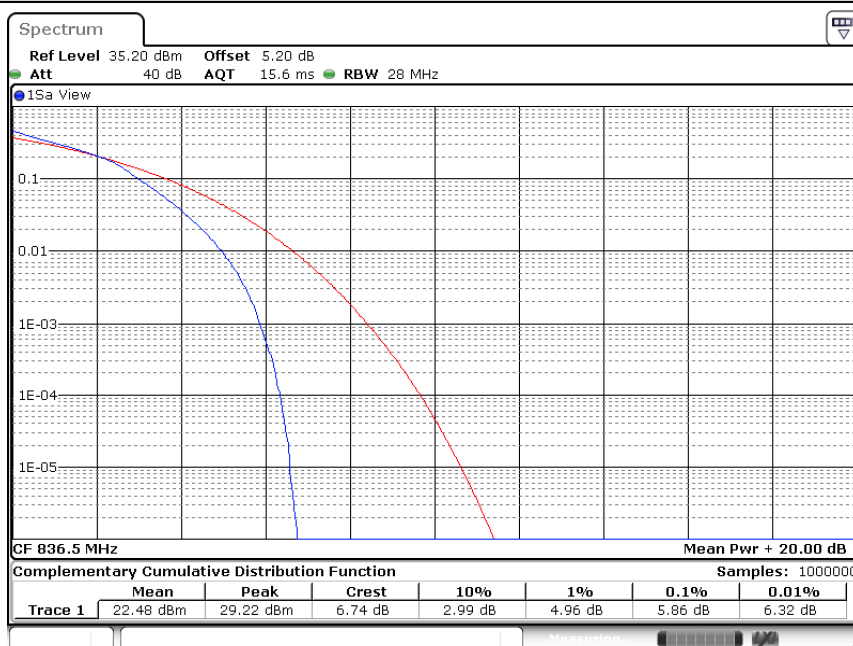


Band5-10MHz-16QAM-20450-50RB#0



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

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

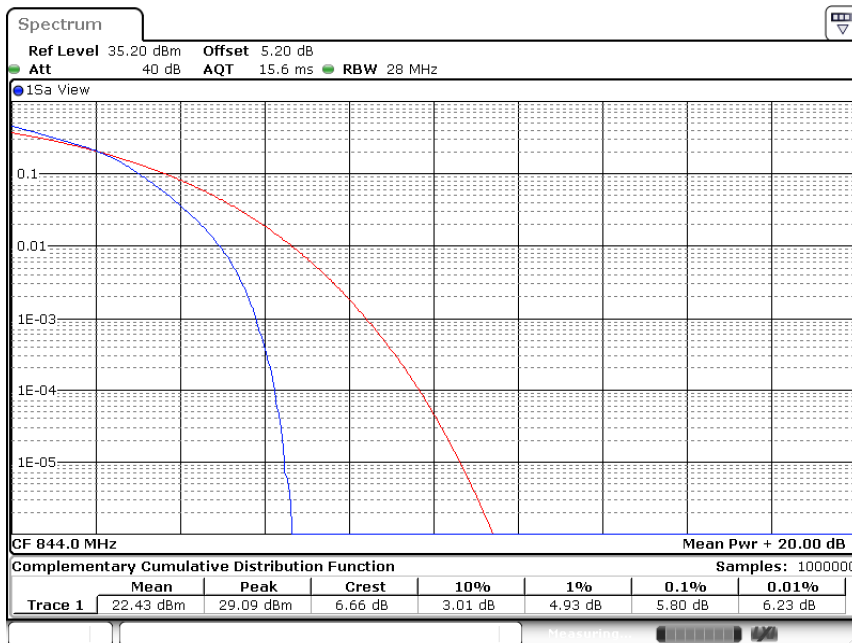


Date: 4.JAN.2021 22:52:51





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



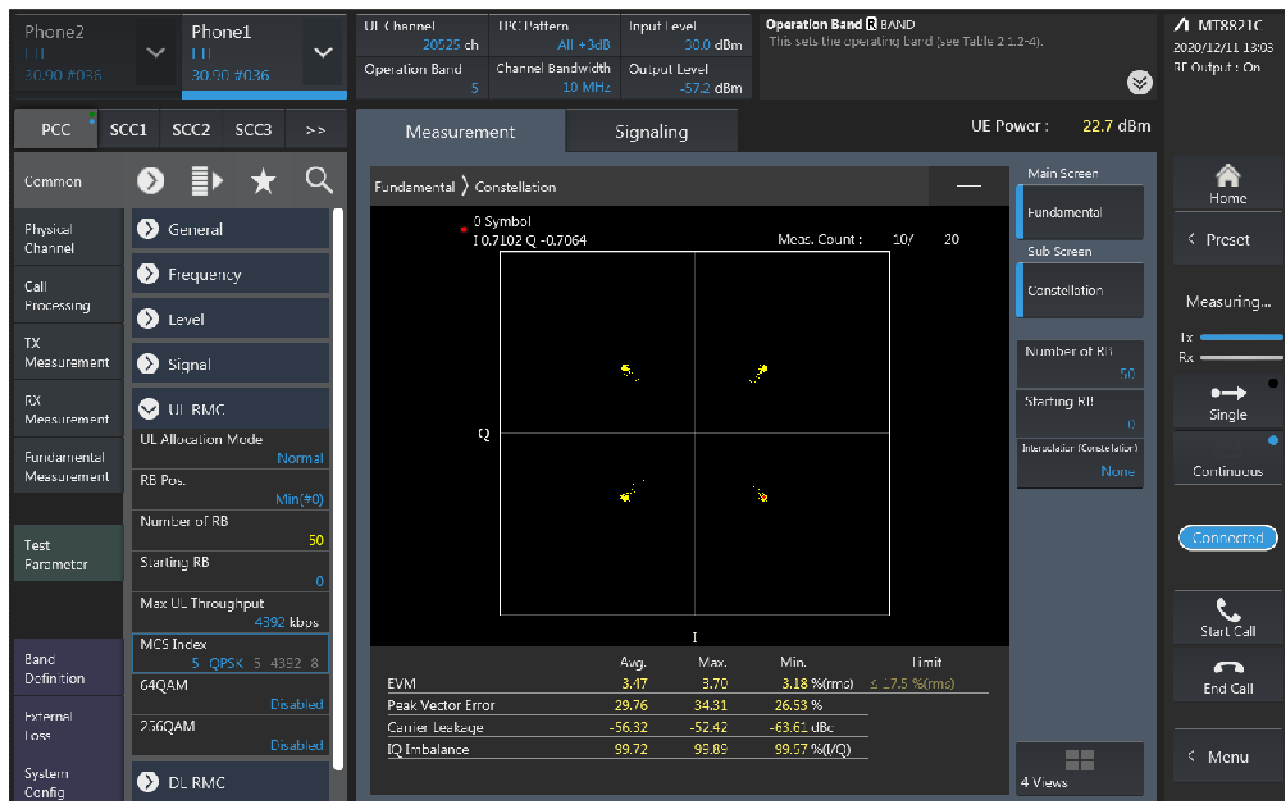
Date: 4.JAN.2021 22:53:13



3. Modulation Characteristics

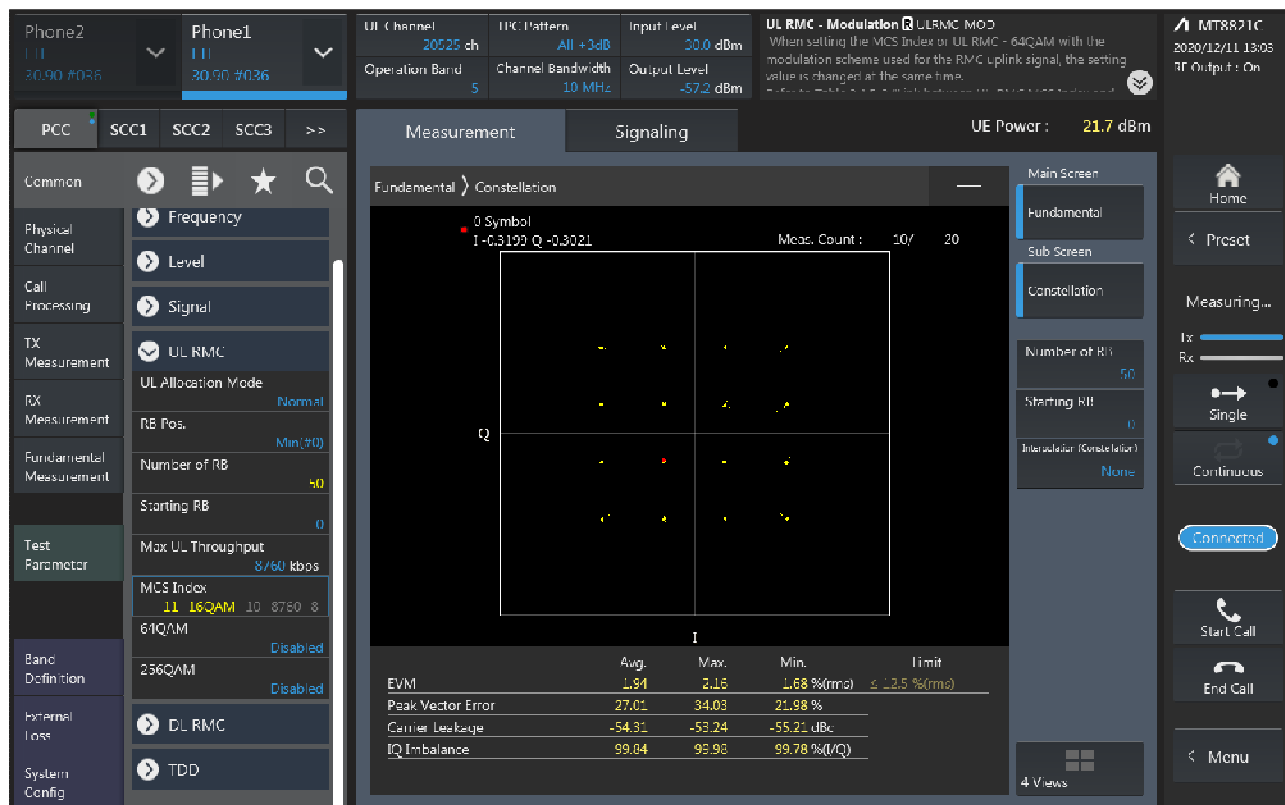
3.1. Test Mode = LTE /TM1 10MHz

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

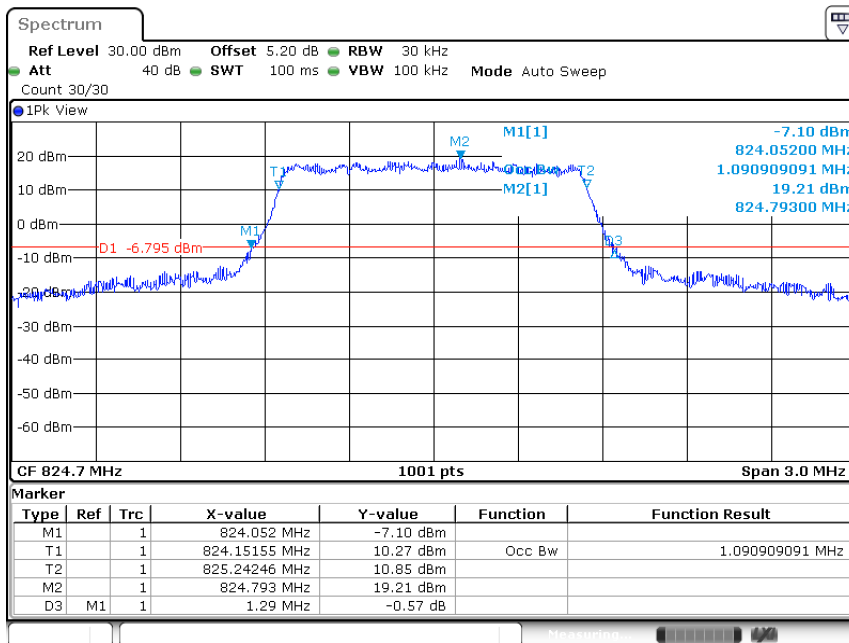
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.290	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.299	PASS
Band5	1.4MHz	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





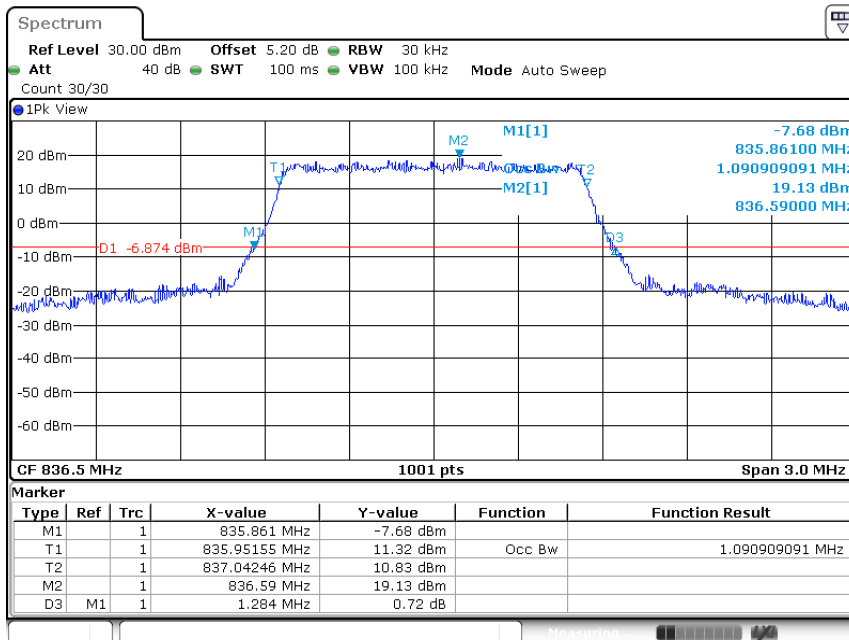
4.2. Test Plots

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



Date: 4.JAN.2021 22:26:11



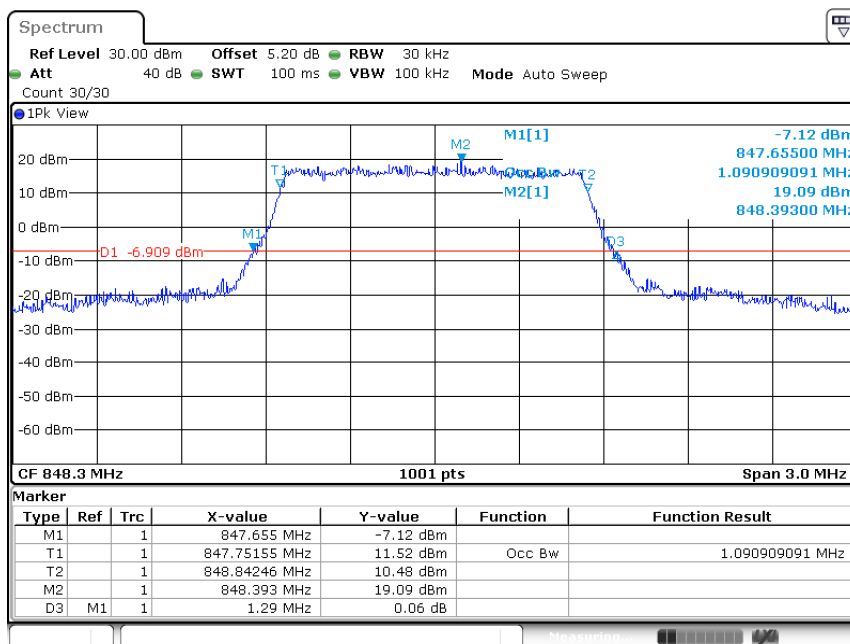
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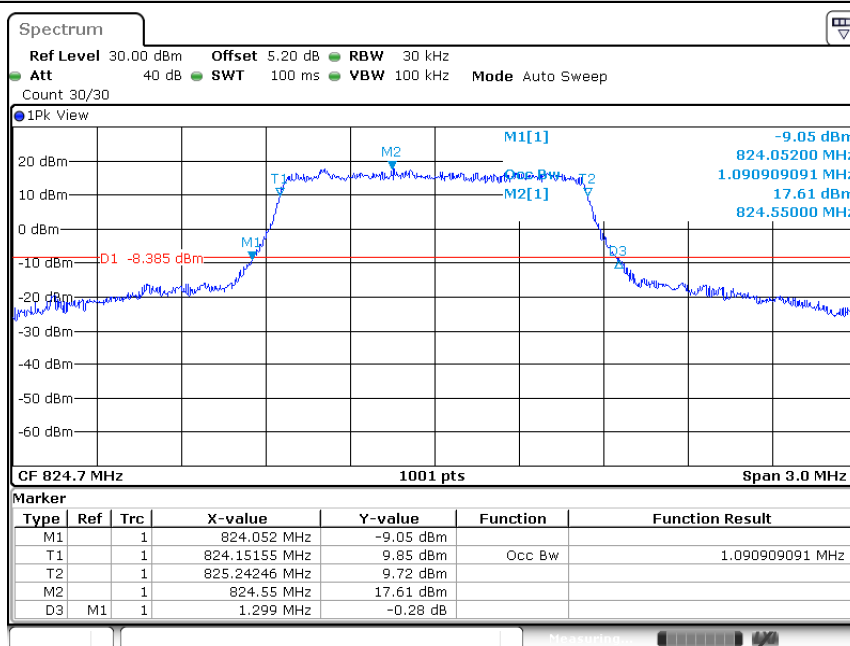


Band5-1.4MHz-QPSK-20643-6RB#0-1.091



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

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



Date: 4.JAN.2021 22:25:58



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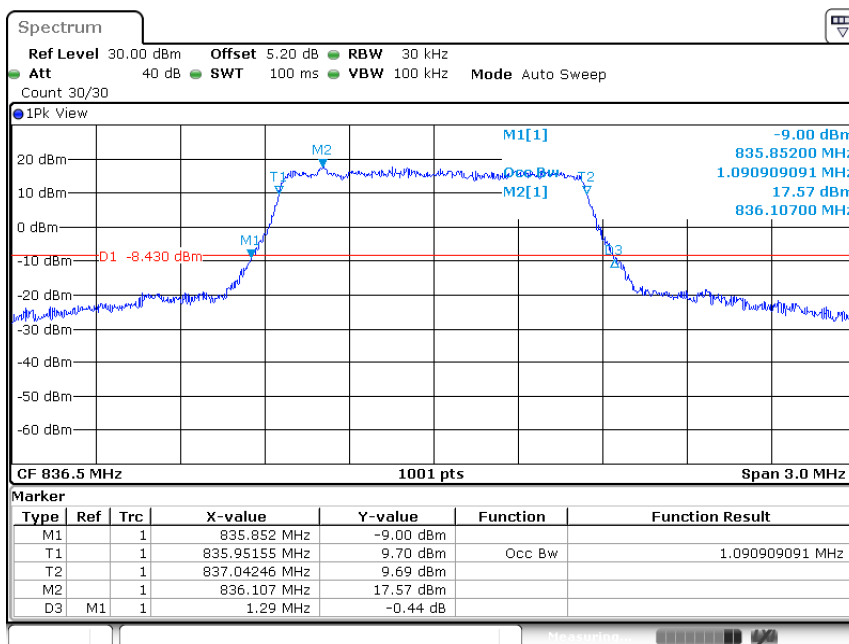
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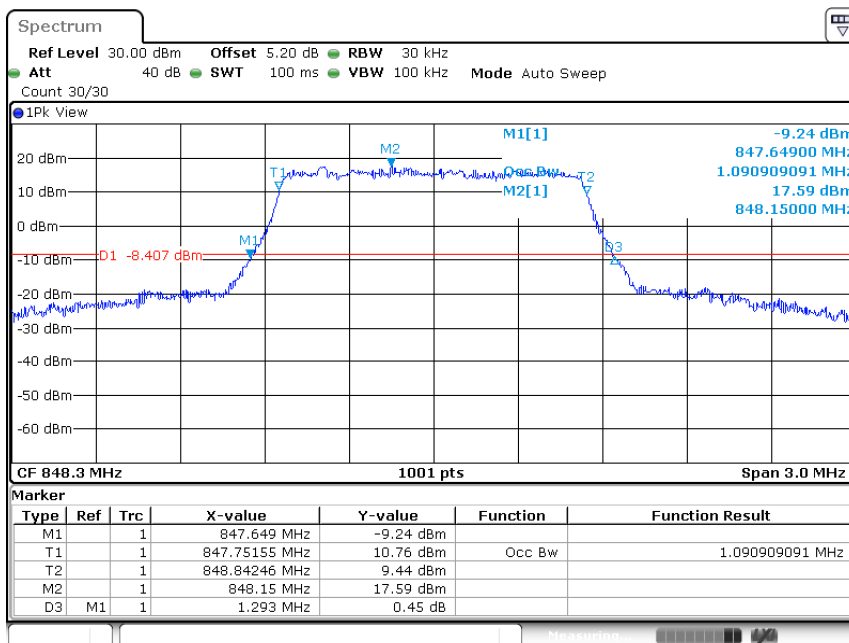


Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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

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



Date: 4.JAN.2021 22:26:51

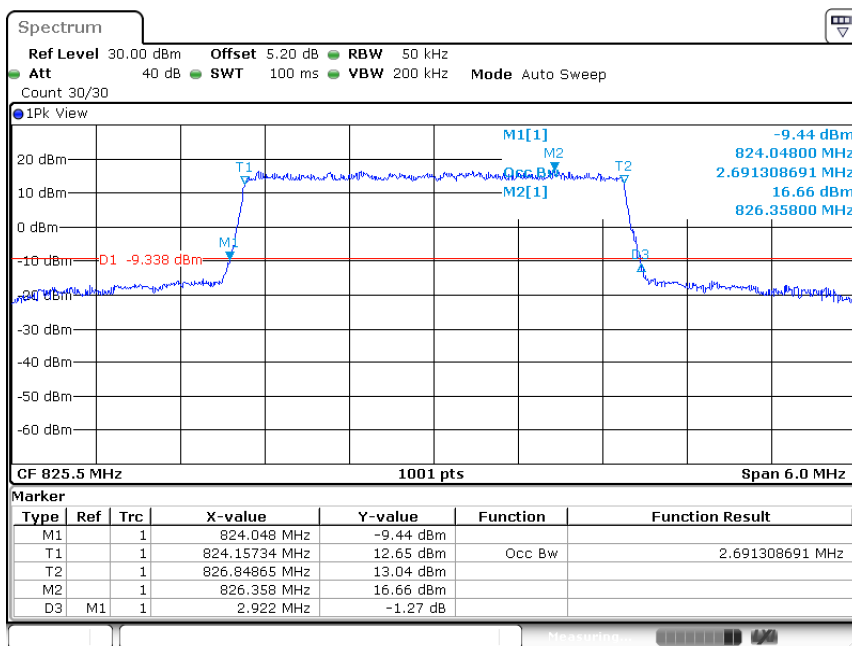


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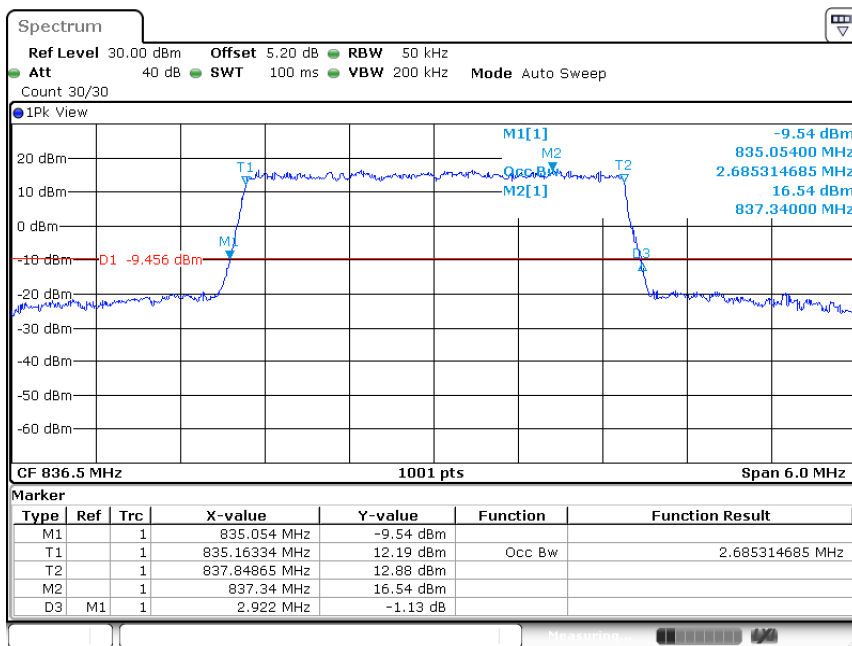
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Band5-3MHz-QPSK-20415-15RB#0-2.691



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

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

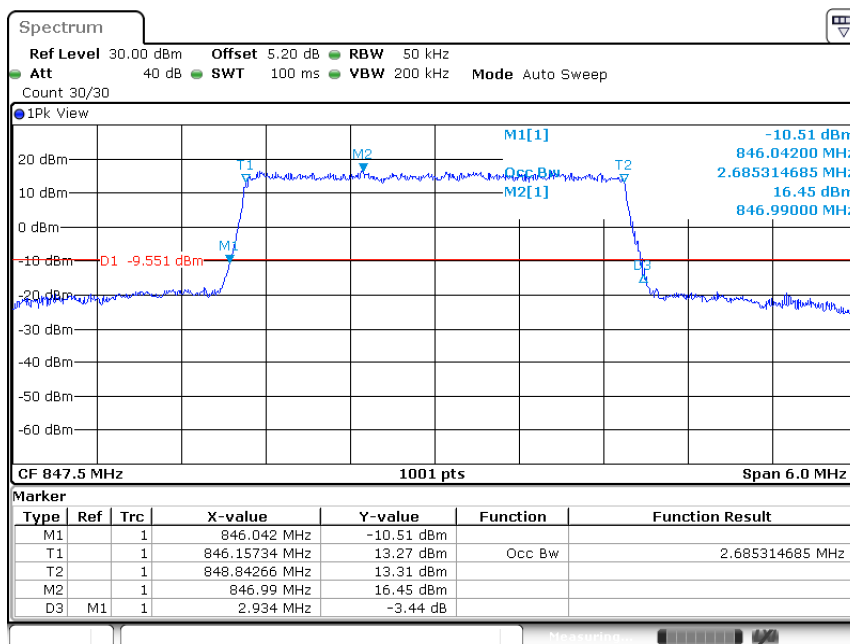


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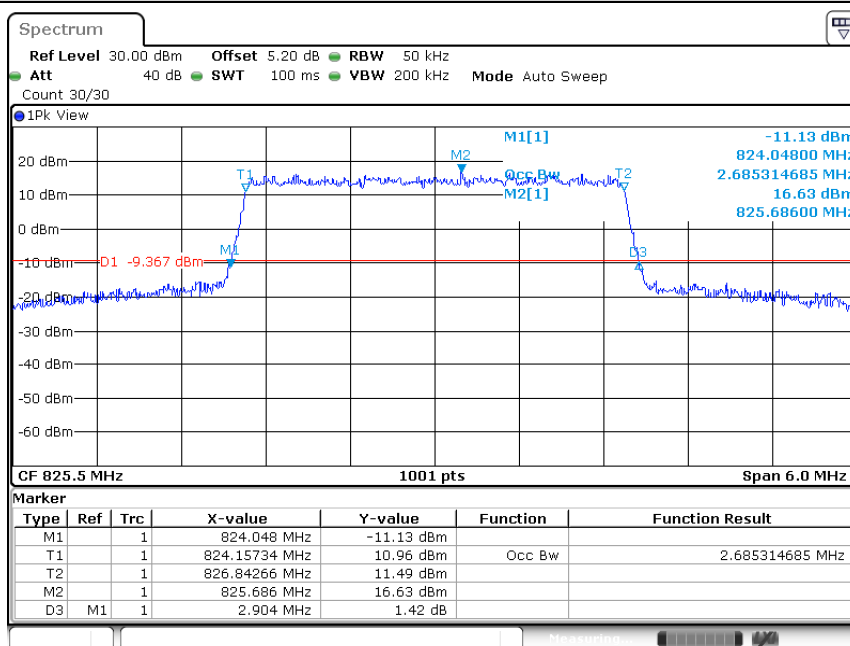


Band5-3MHz-QPSK-20635-15RB#0-2.685



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

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



Date: 4.JAN.2021 22:27:21



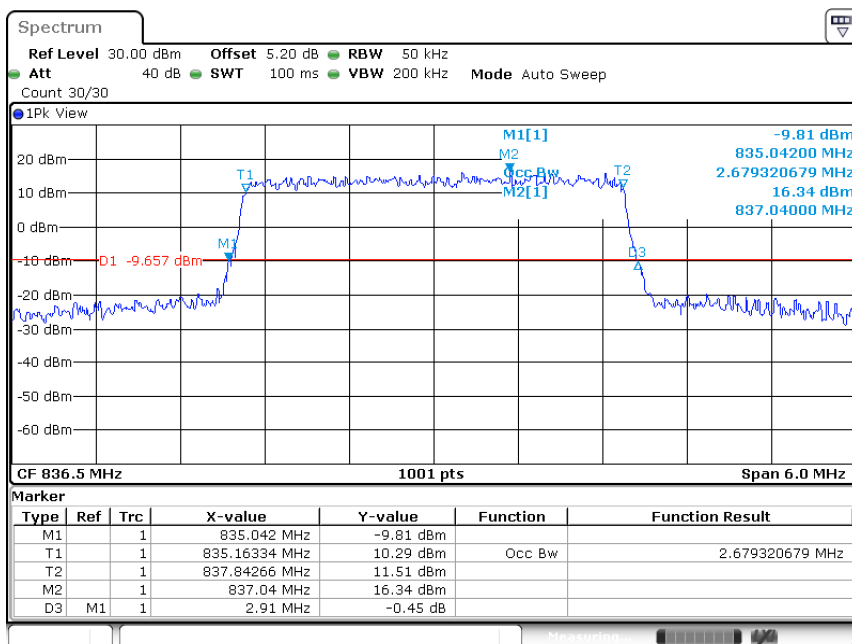
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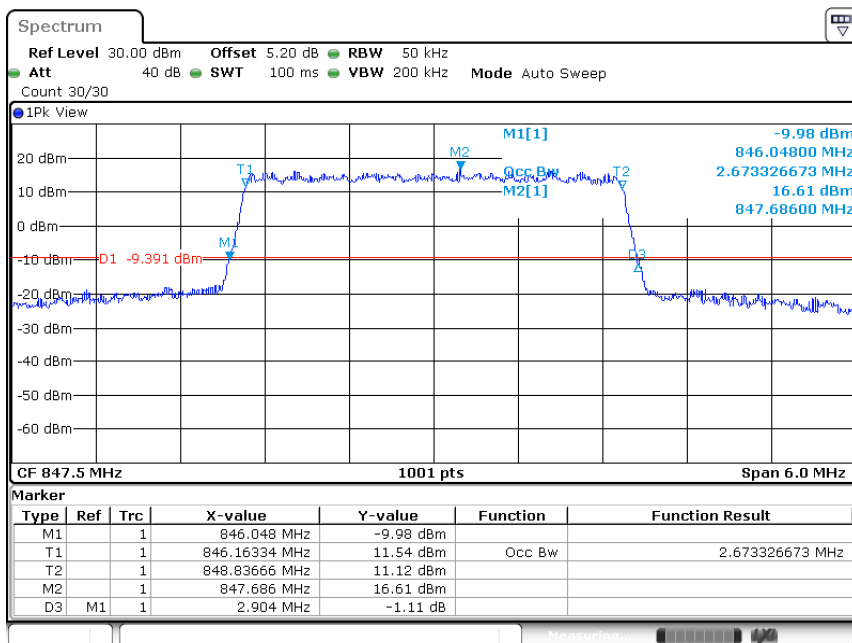
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Band5-3MHz-16QAM-20525-15RB#0-2.679



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

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

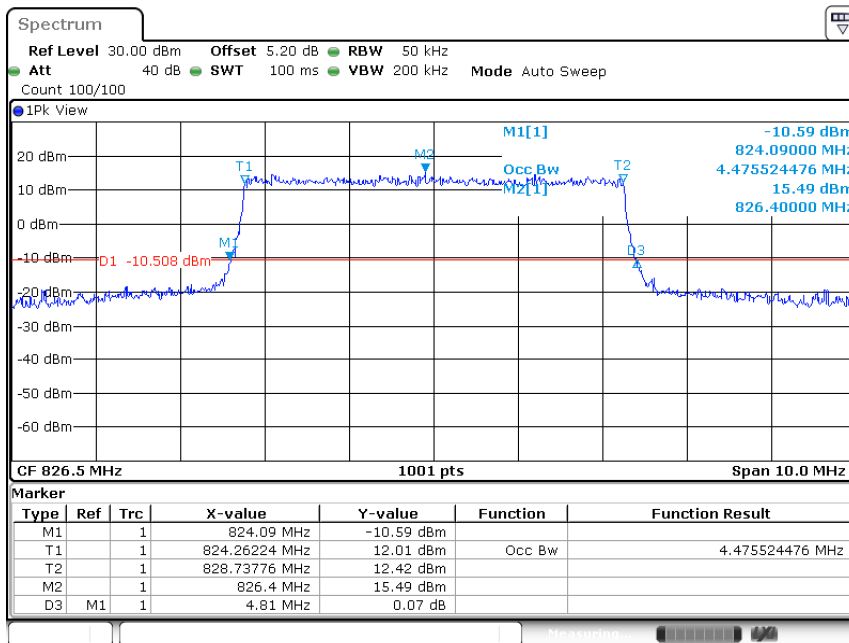


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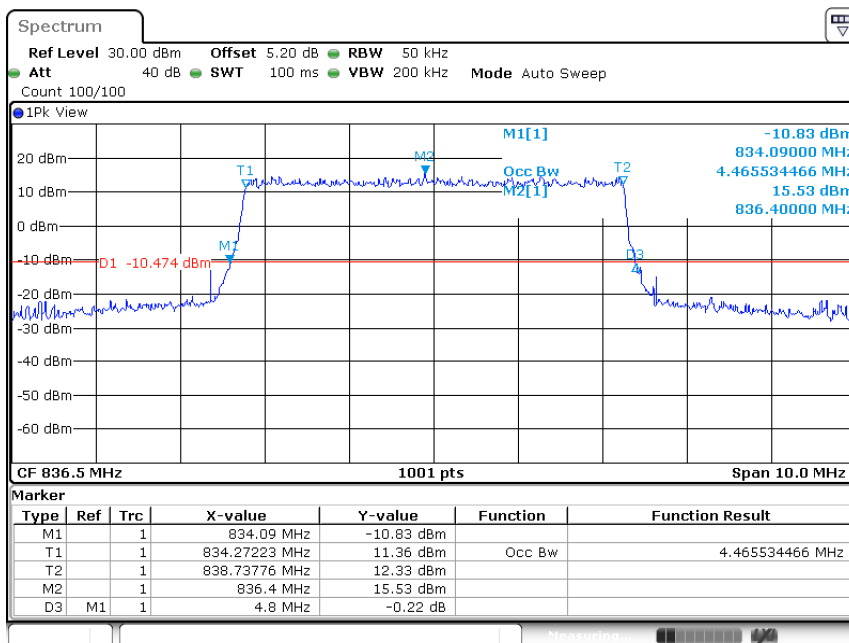


Band5-5MHz-QPSK-20425-25RB#0-4.476



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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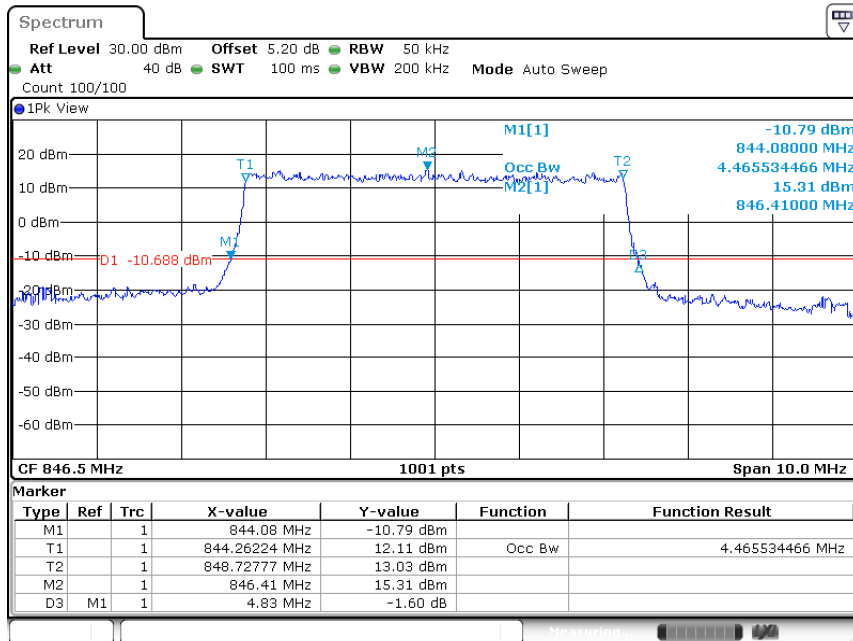
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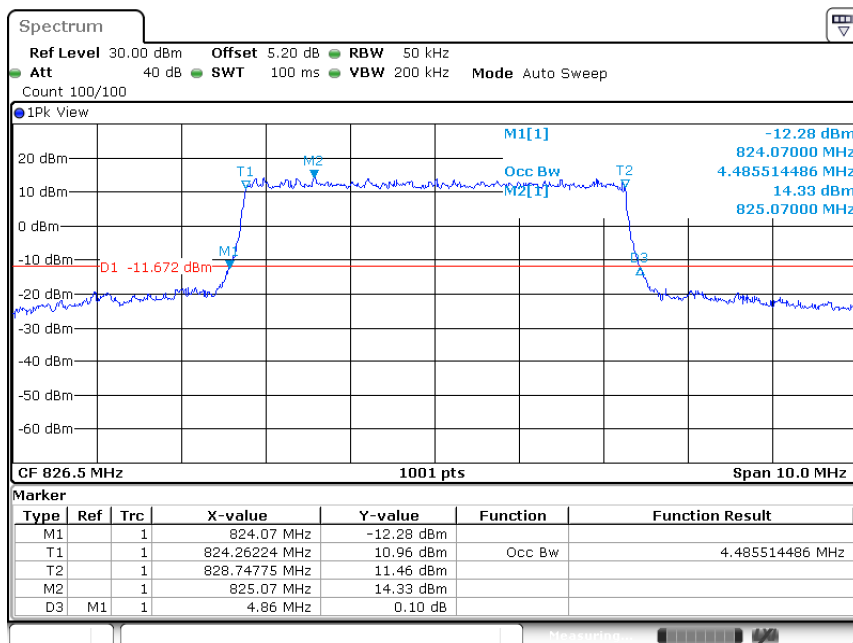


Band5-5MHz-QPSK-20625-25RB#0-4.466



Date: 4.JAN.2021 22:29:56

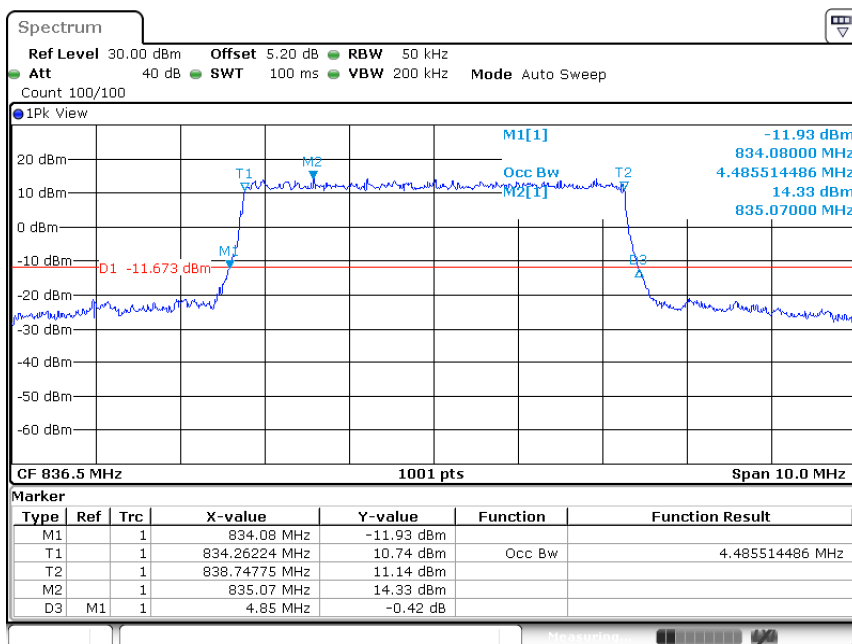
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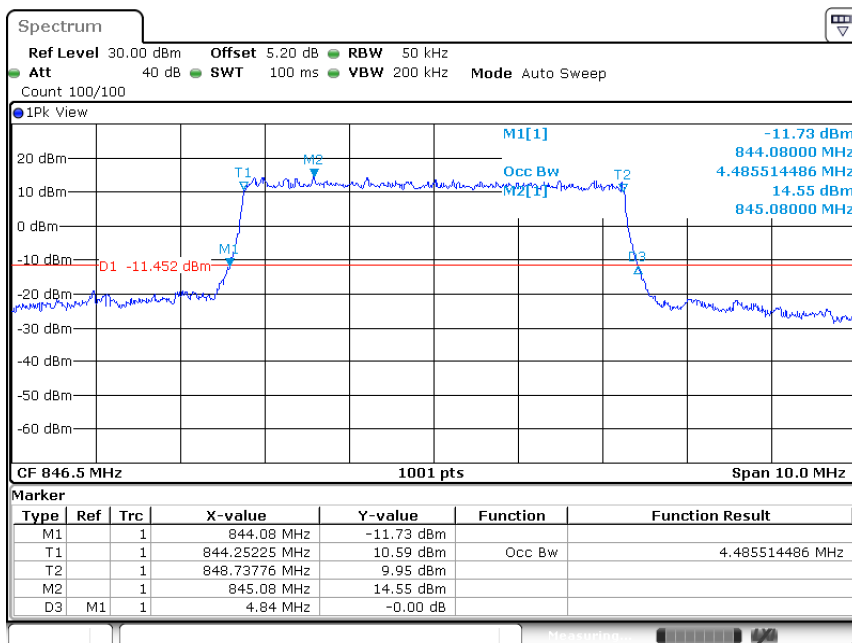


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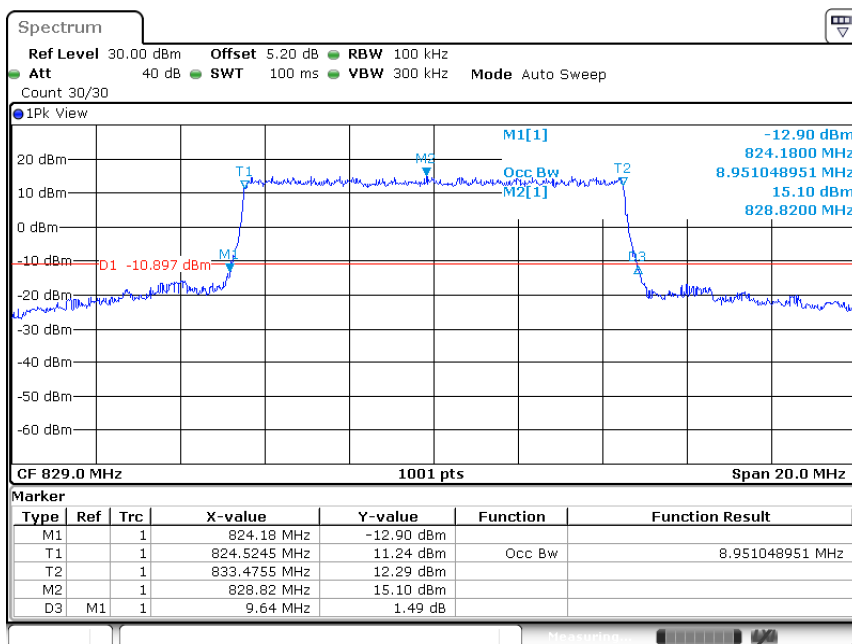
Band5-5MHz-16QAM-20625-25RB#0-4.486



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

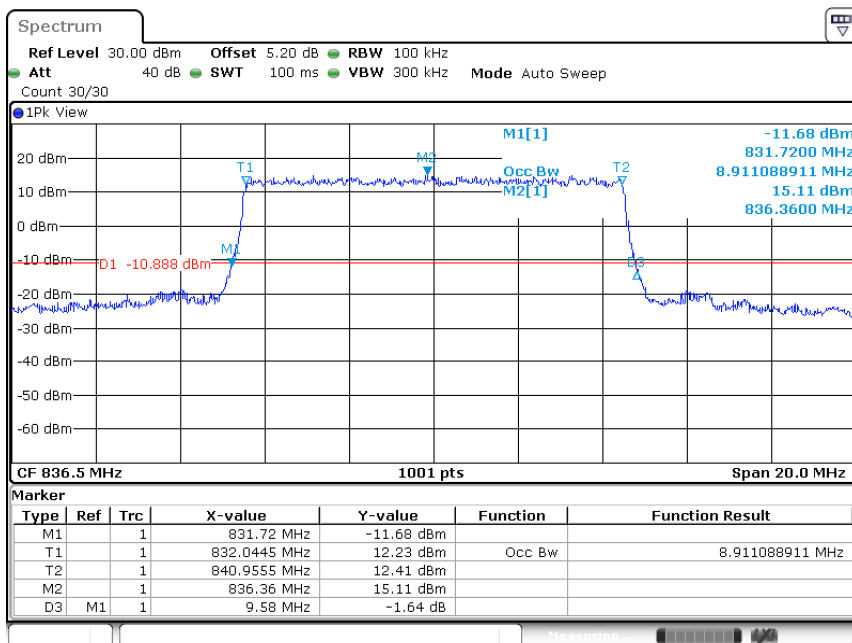


Band5-10MHz-QPSK-20450-50RB#0-8.951



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

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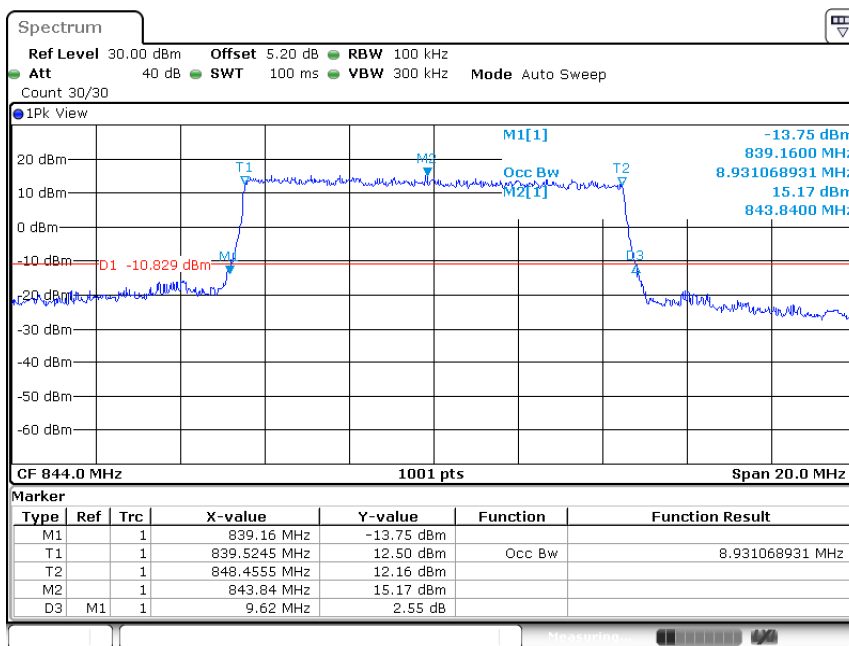


Date: 4.JAN.2021 22:31:00



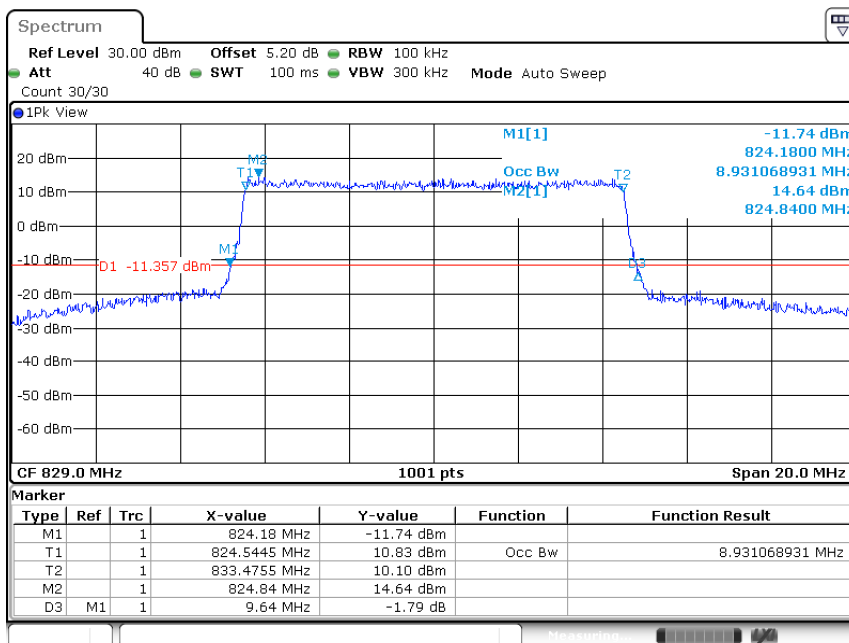


Band5-10MHz-QPSK-20600-50RB#0-8.931



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

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



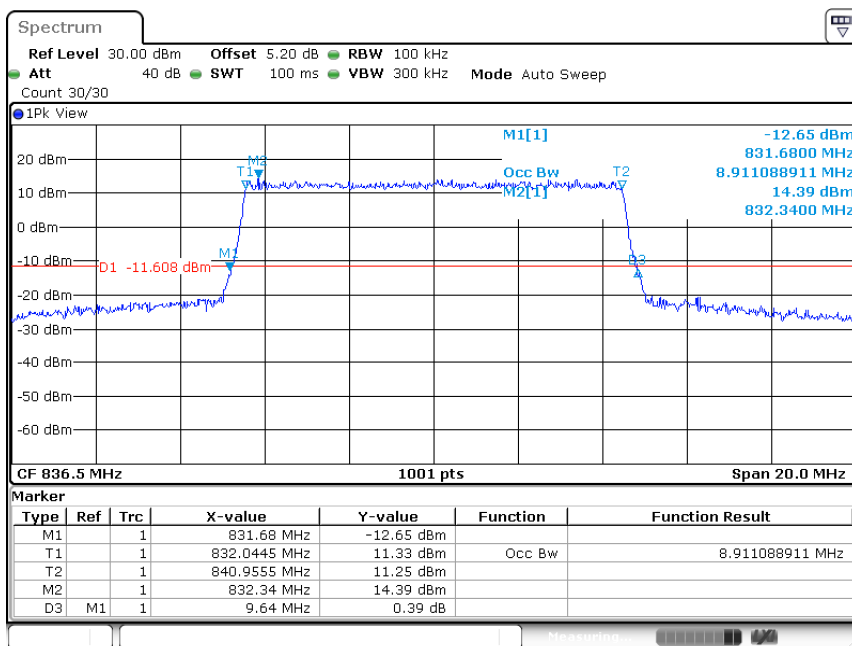
Date: 4.JAN.2021 22:30:47



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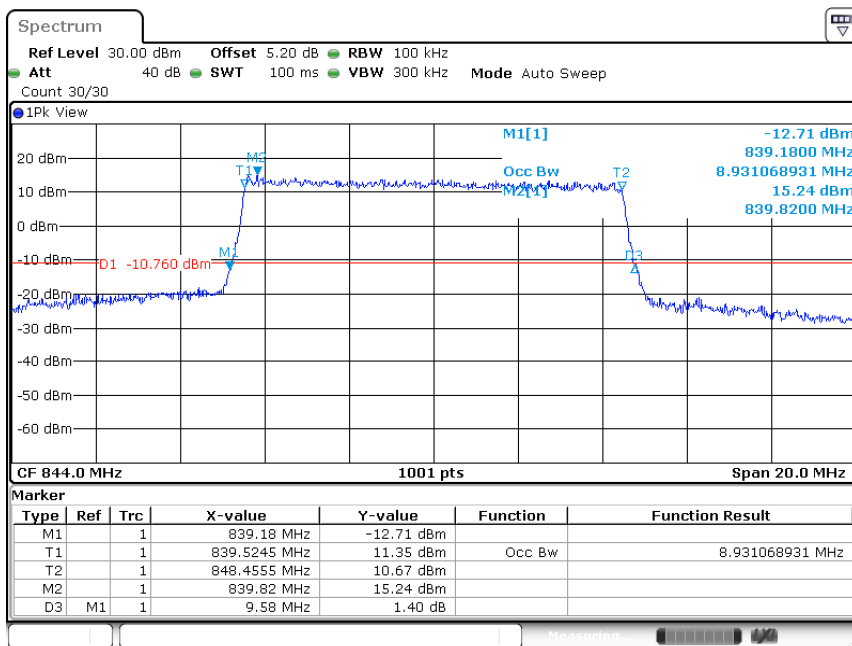
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Band5-10MHz-16QAM-20525-50RB#0-8.911



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

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

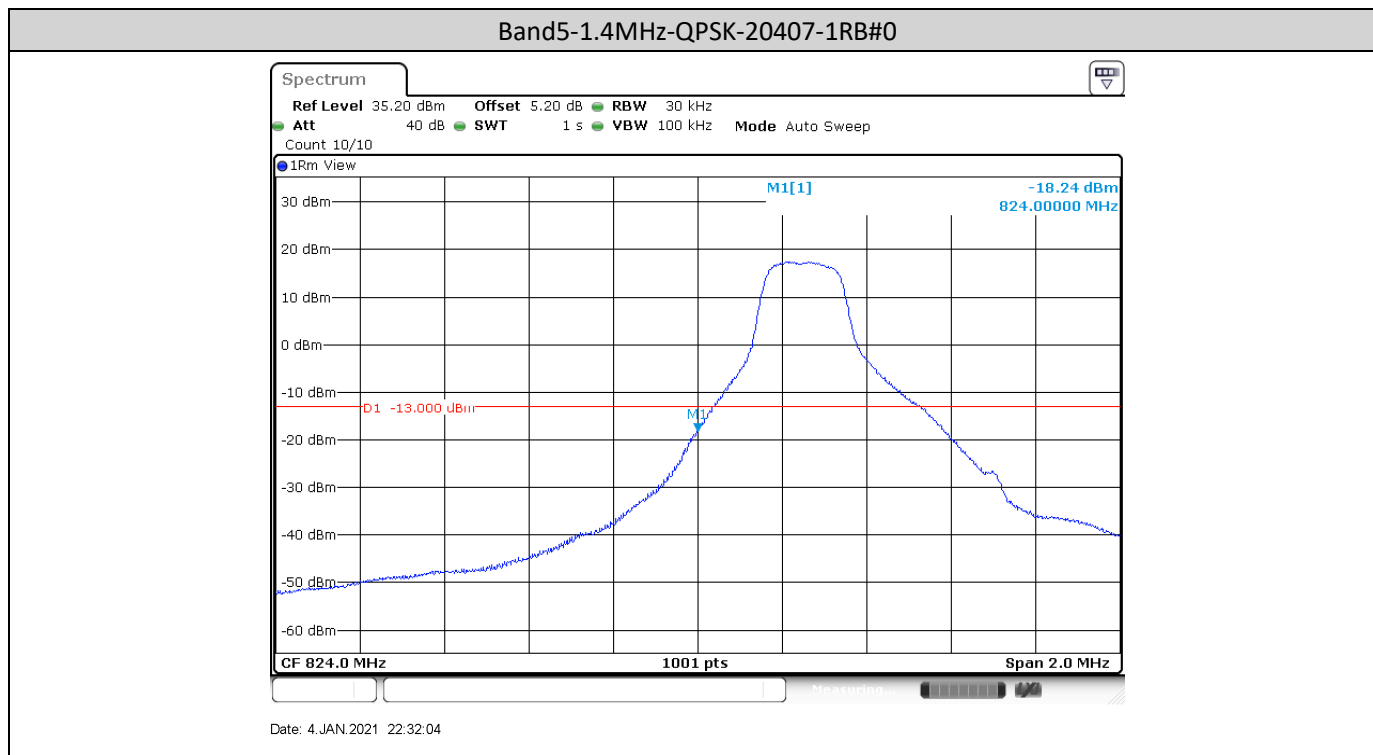


Date: 4.JAN.2021 22:31:39



5. Band Edge Compliance

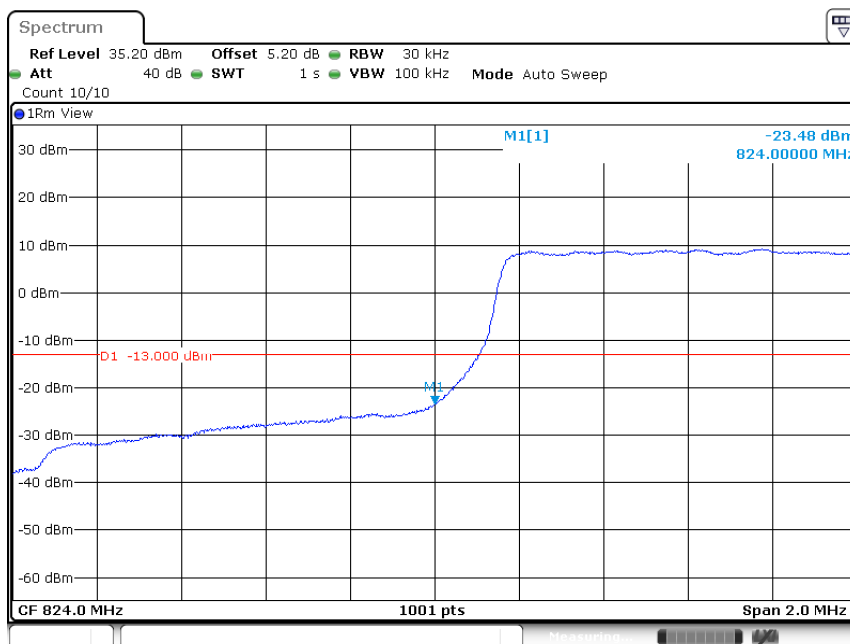
5.1. Test Plots



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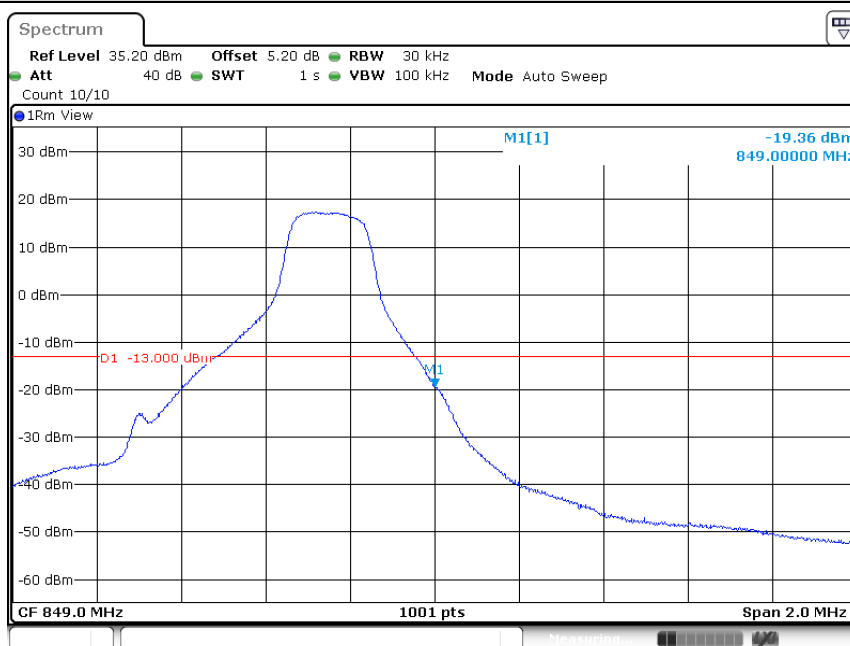


Band5-1.4MHz-QPSK-20407-6RB#0



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

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

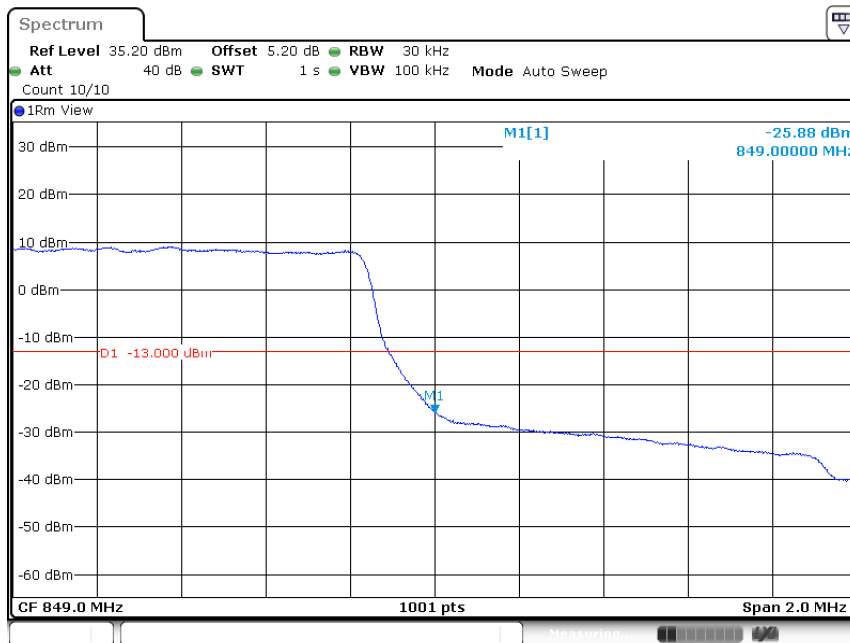


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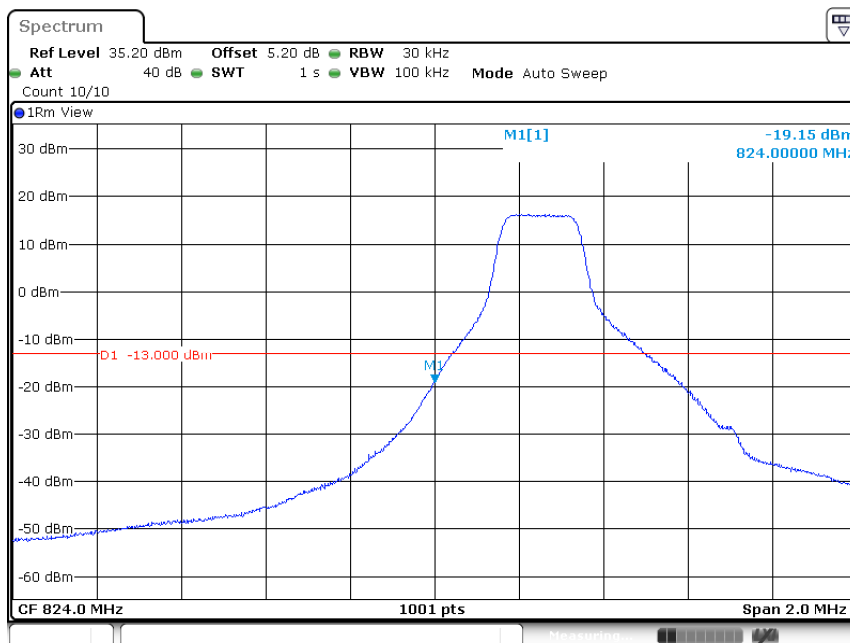


Band5-1.4MHz-QPSK-20643-6RB#0



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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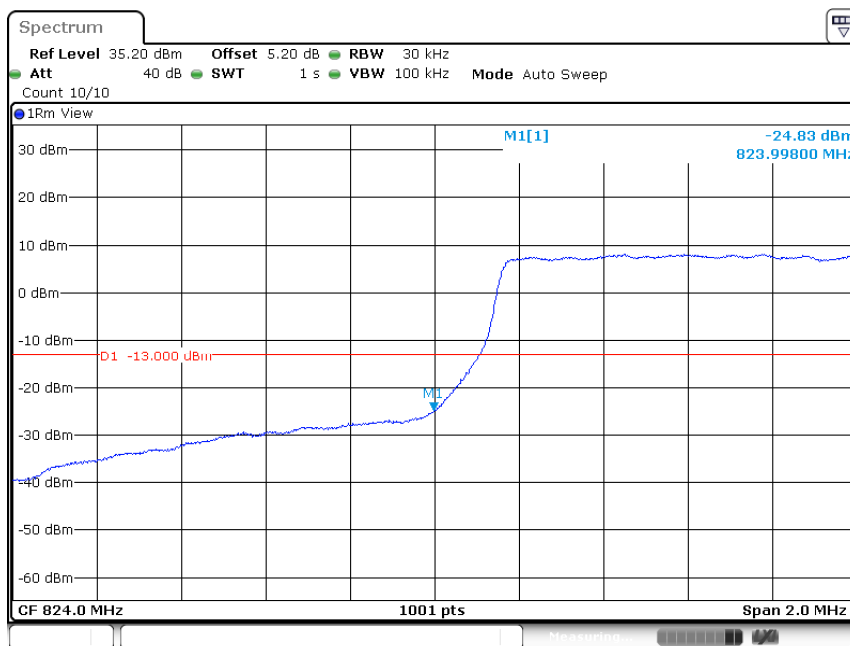
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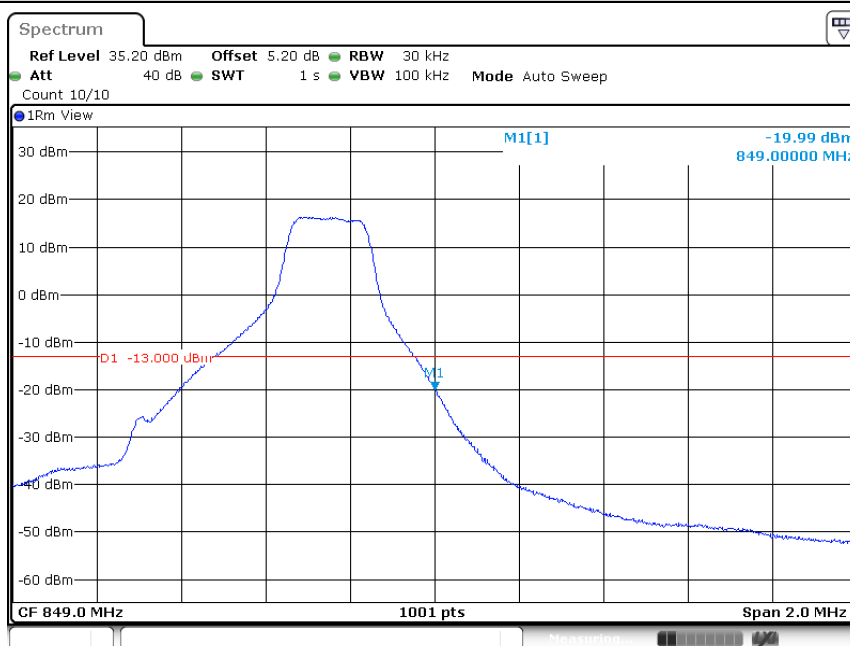


Band5-1.4MHz-16QAM-20407-6RB#0



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

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



Date: 4.JAN.2021 22:33:51



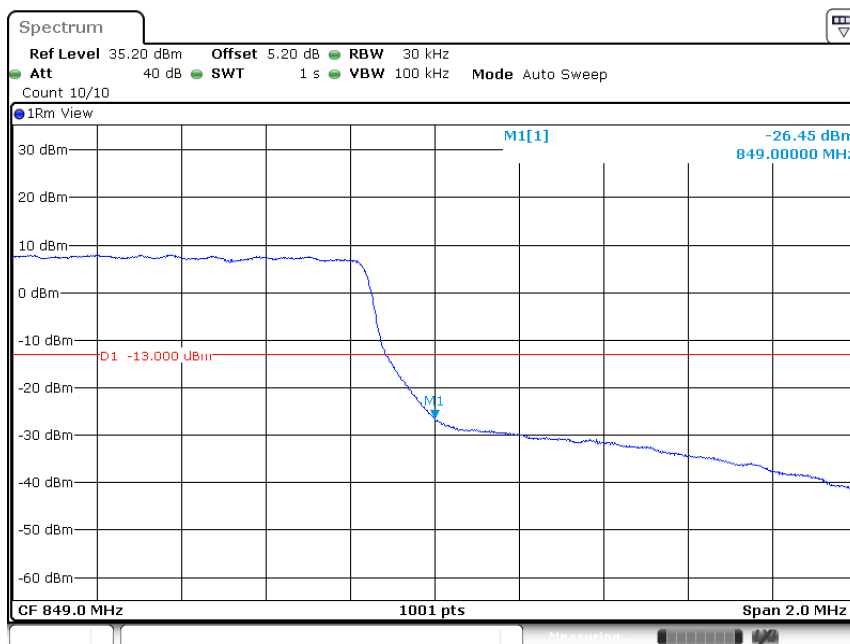
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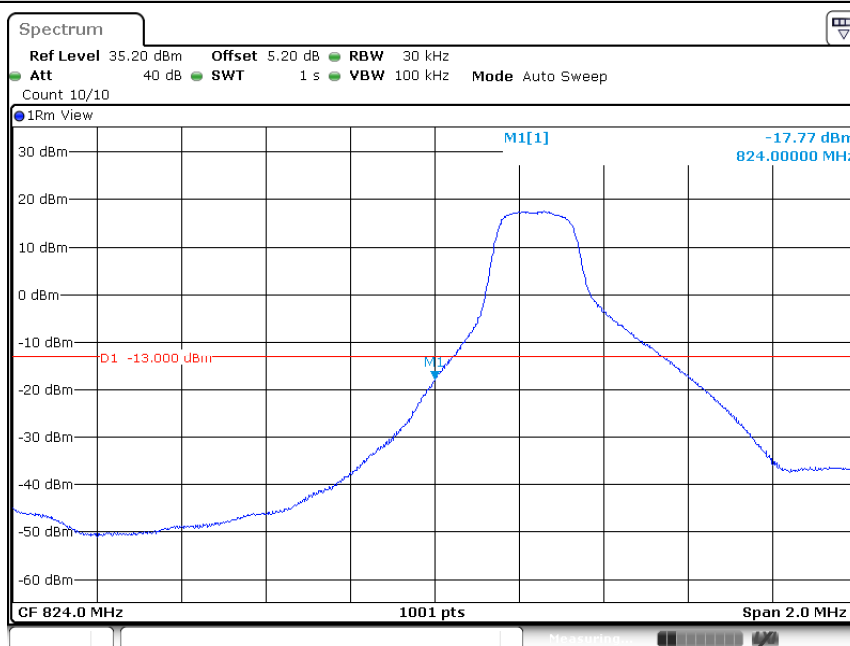


Band5-1.4MHz-16QAM-20643-6RB#0



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

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



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



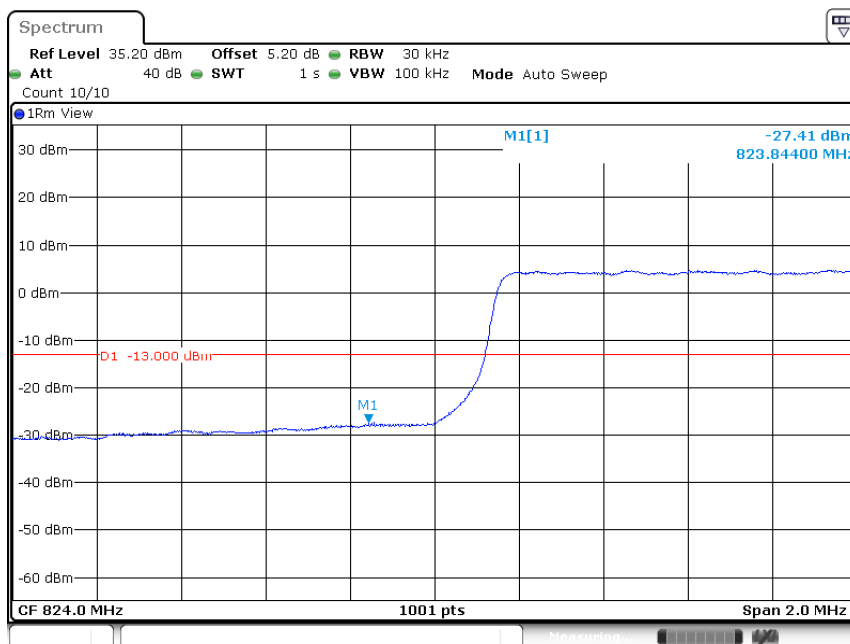
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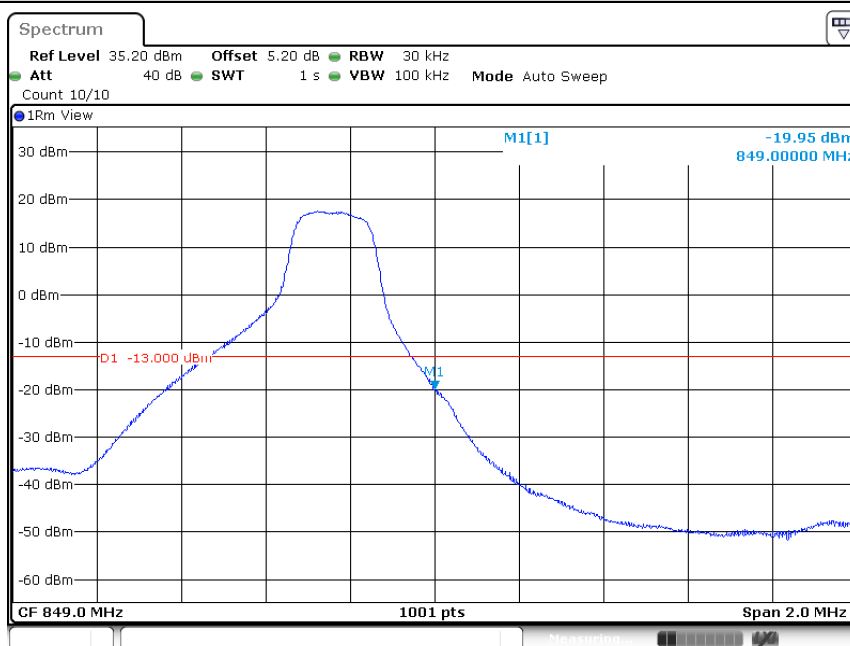


Band5-3MHz-QPSK-20415-15RB#0



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

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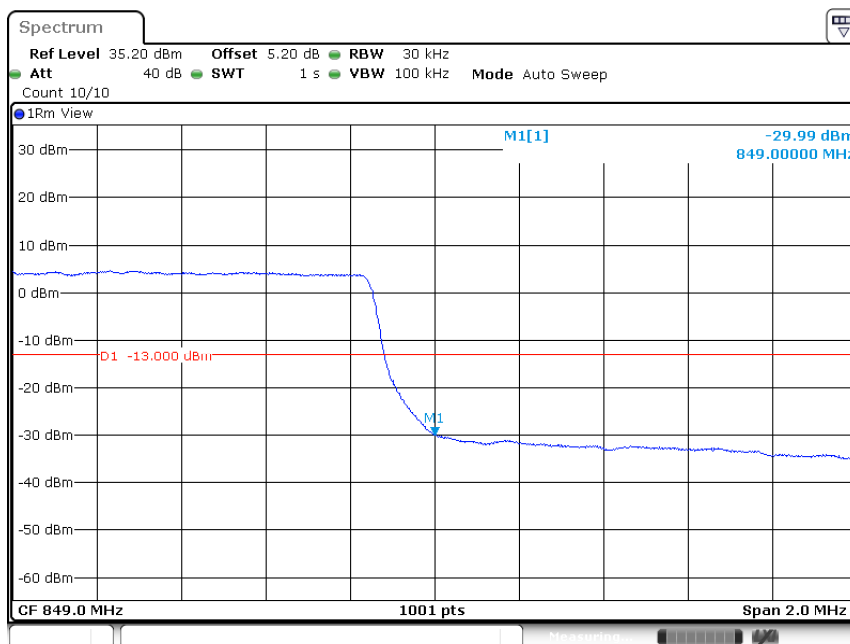


Date: 4.JAN.2021 22:36:25



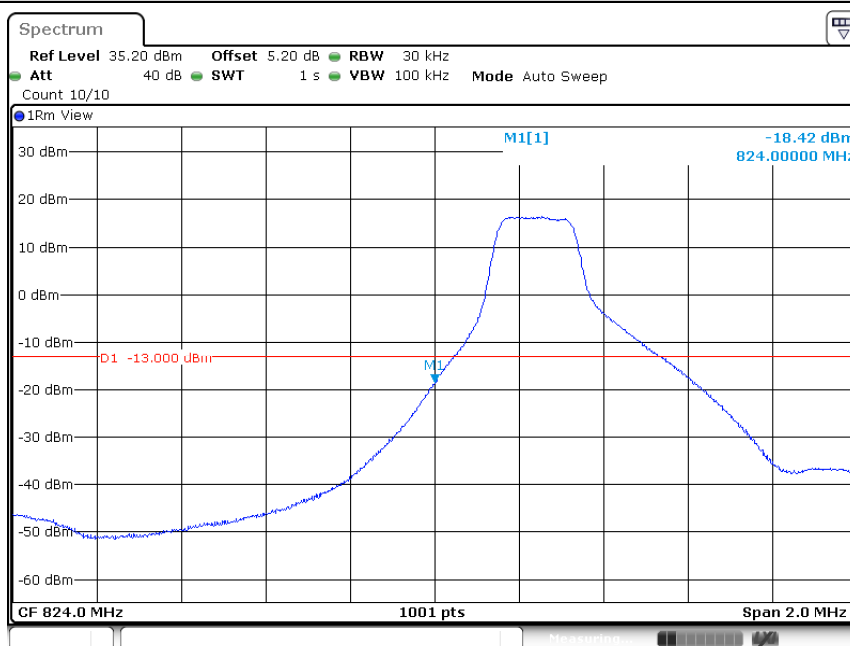


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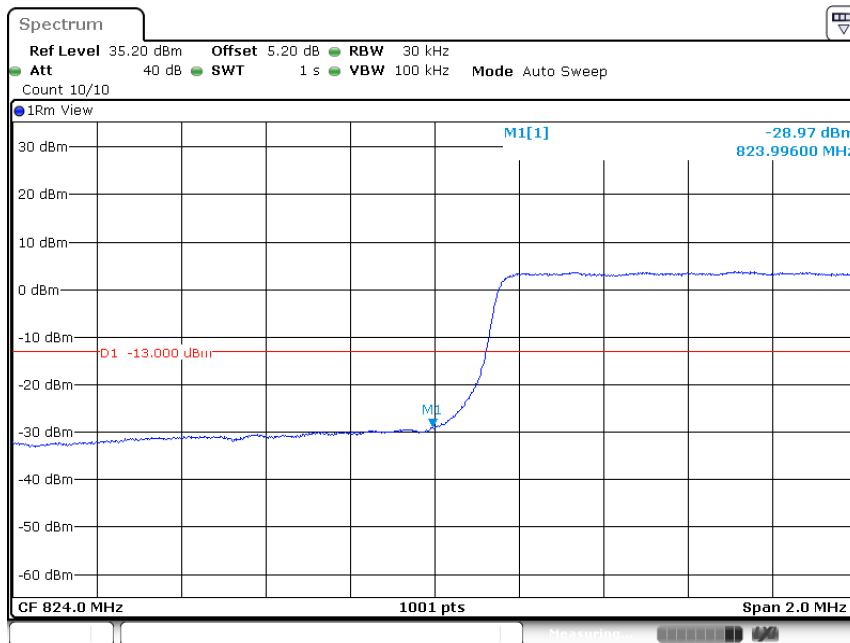


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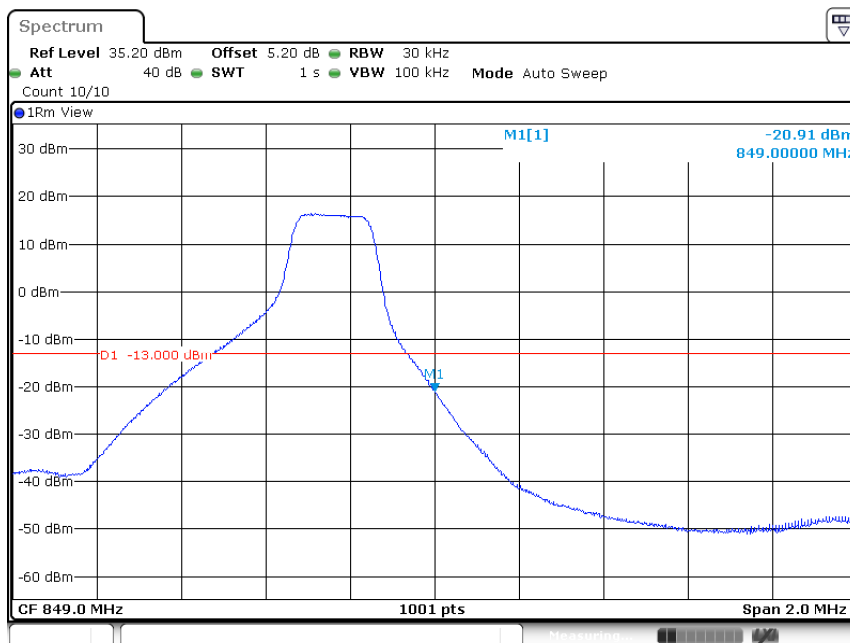


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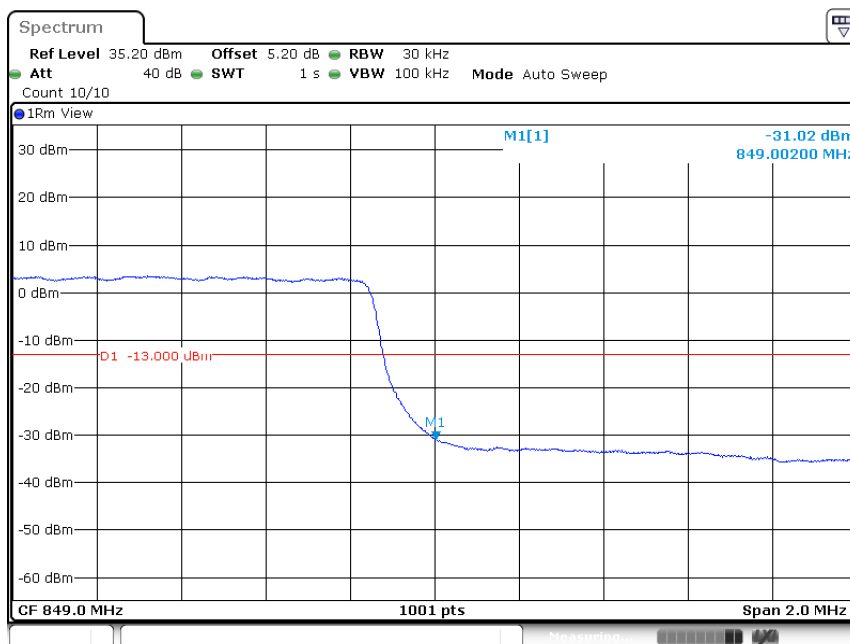


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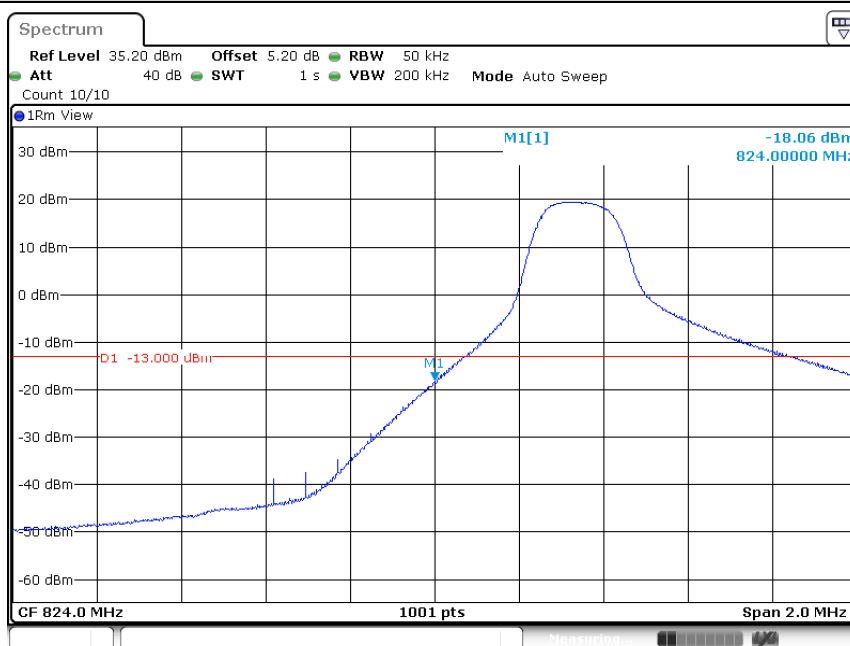


Band5-3MHz-16QAM-20635-15RB#0



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

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

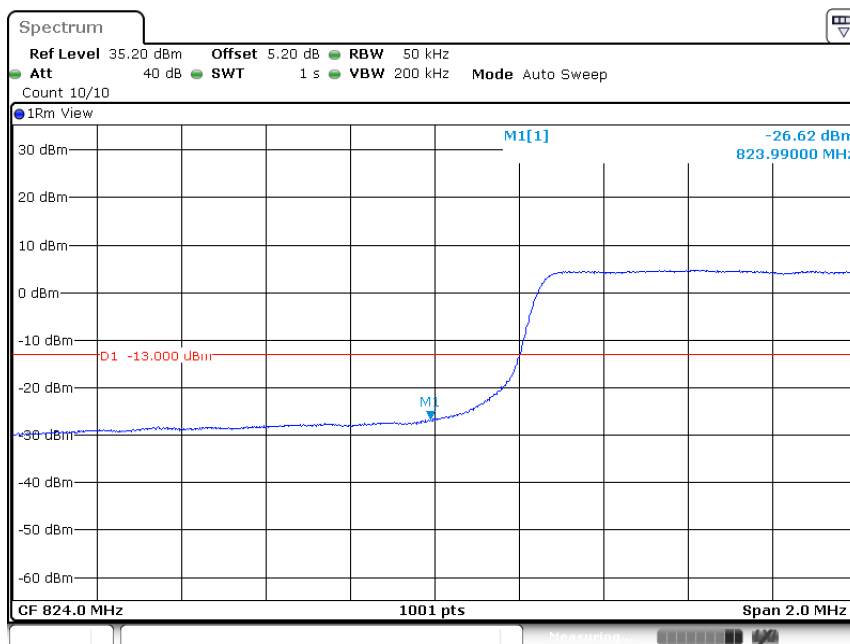


Date: 4.JAN.2021 22:37:53





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



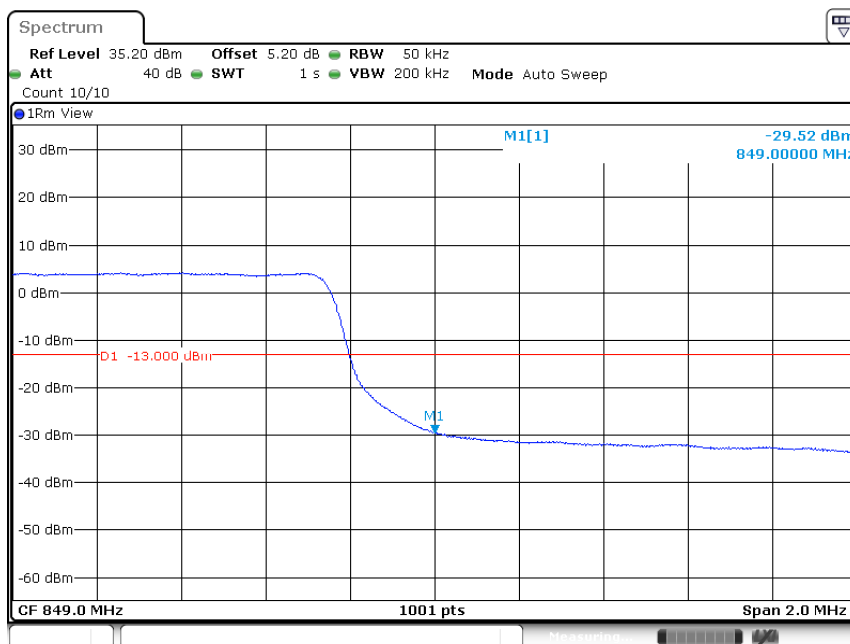
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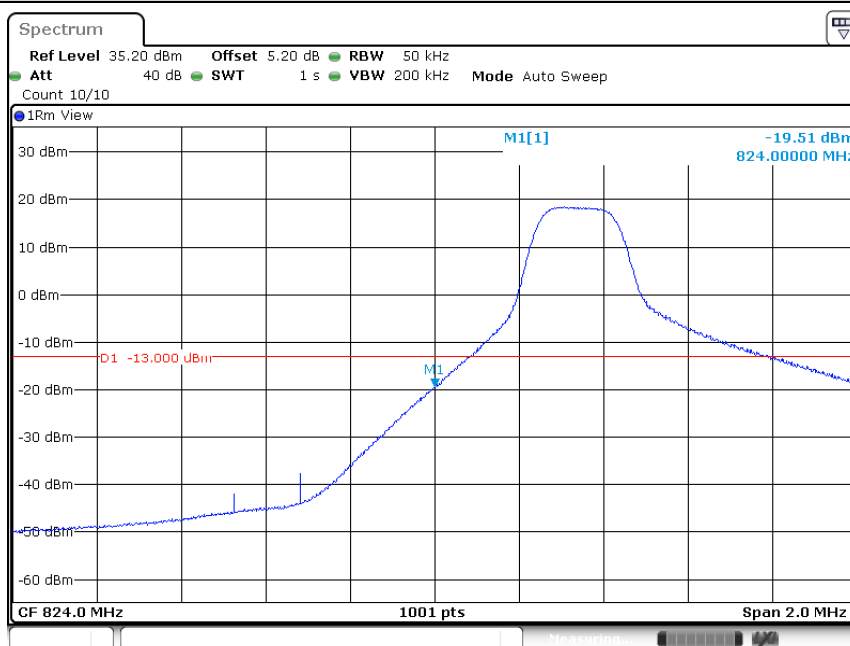


Band5-5MHz-QPSK-20625-25RB#0



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

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



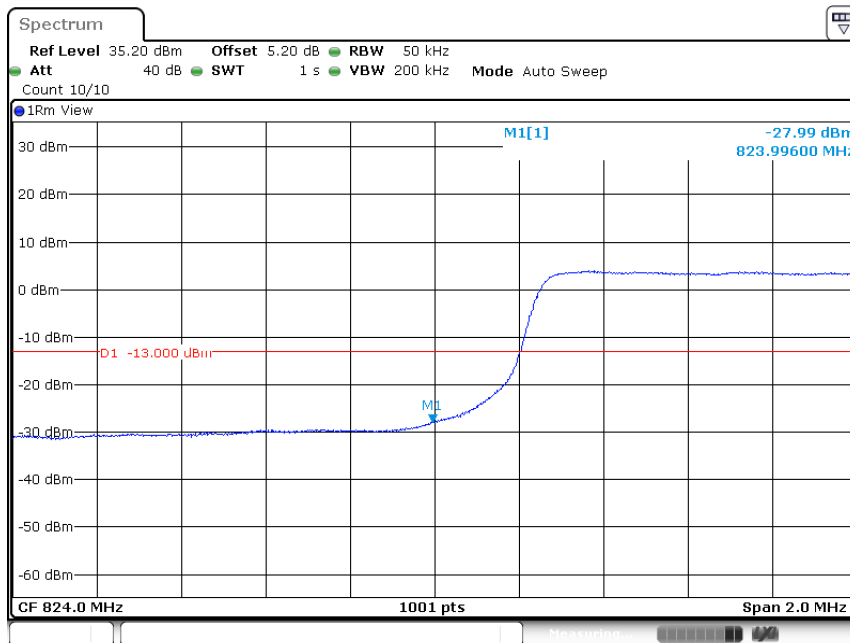
Date: 4.JAN.2021 22:38:13



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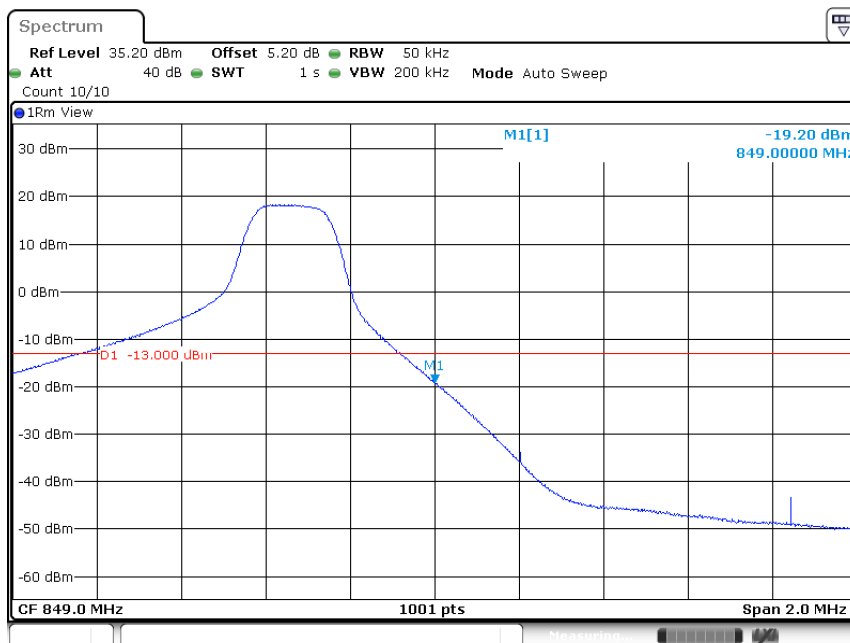


Band5-5MHz-16QAM-20425-25RB#0



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

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



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

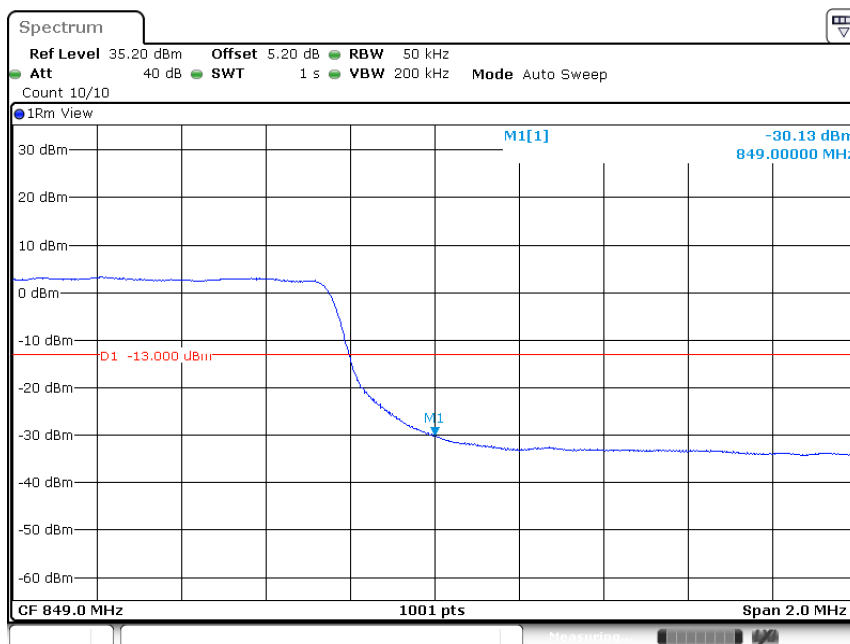


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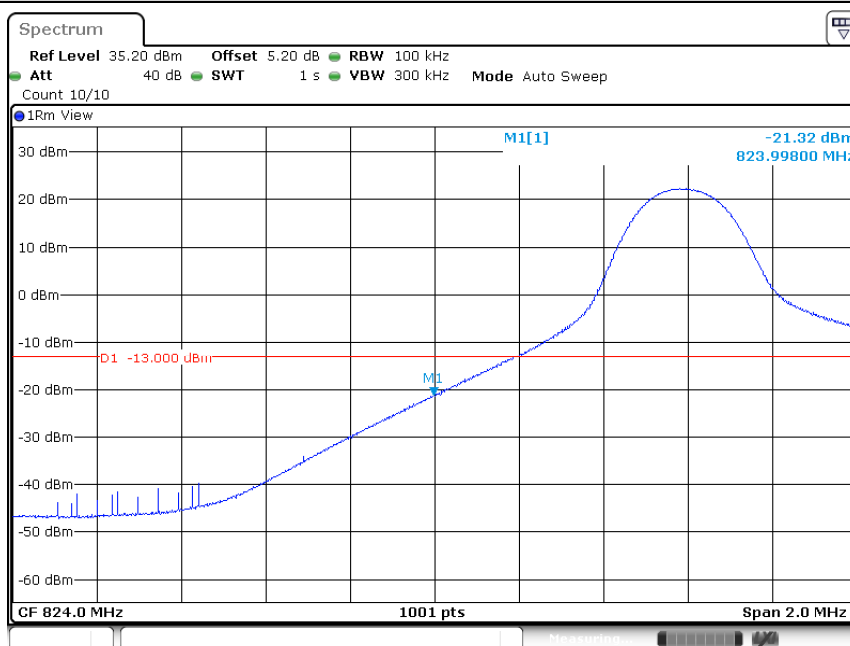


Band5-5MHz-16QAM-20625-25RB#0



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

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



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



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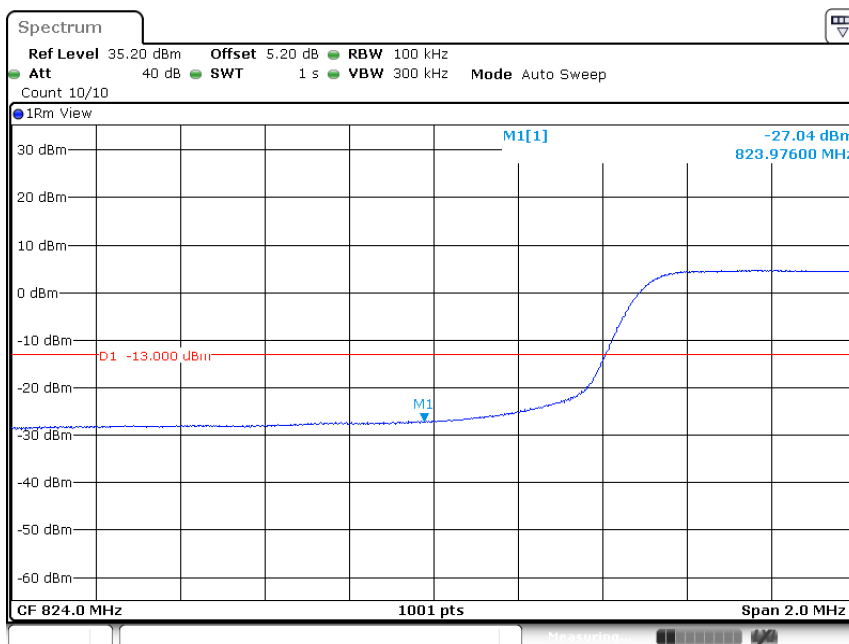
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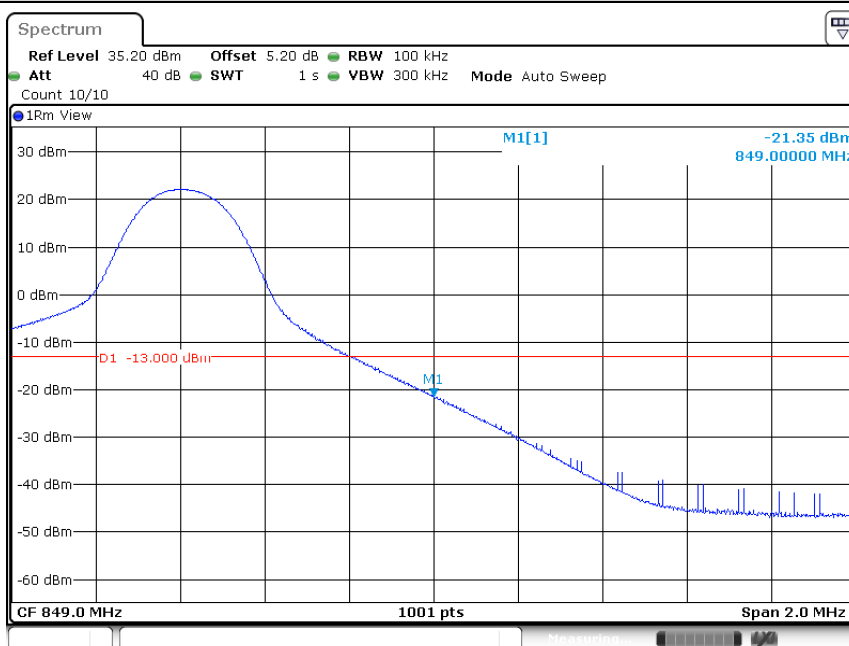


Band5-10MHz-QPSK-20450-50RB#0



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

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



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



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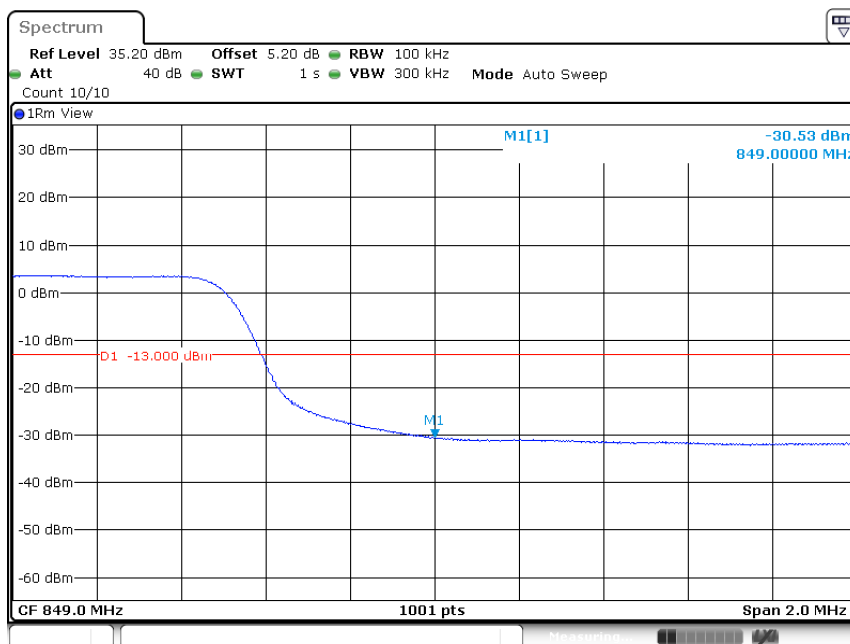
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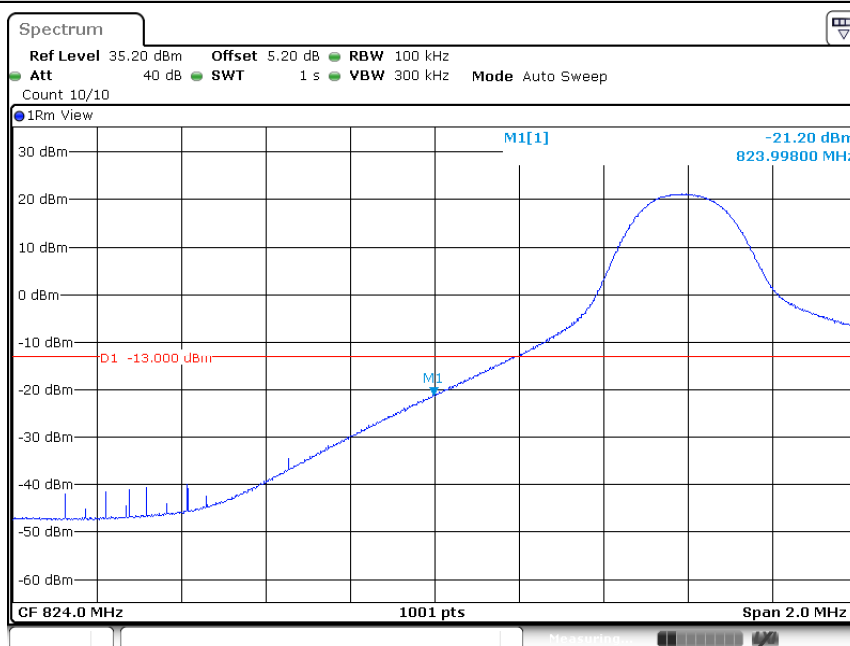


Band5-10MHz-QPSK-20600-50RB#0



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

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



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



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Shenzhen Branch (CCC Laboratory)

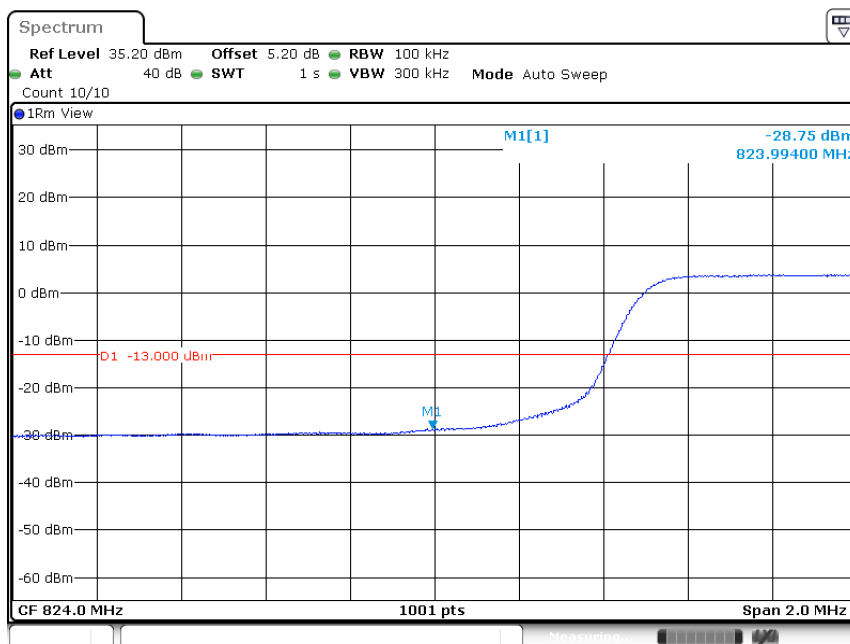
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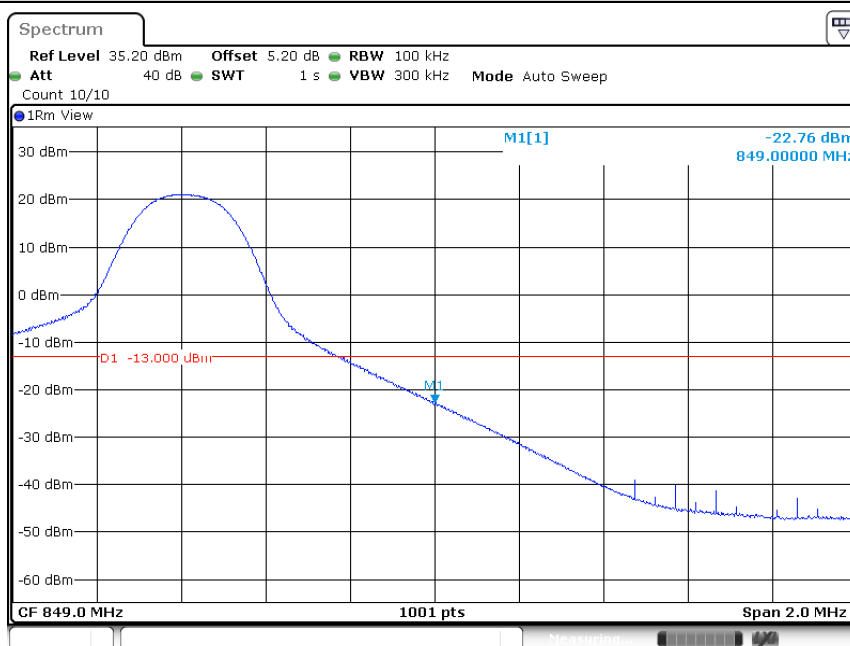


Band5-10MHz-16QAM-20450-50RB#0



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

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



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



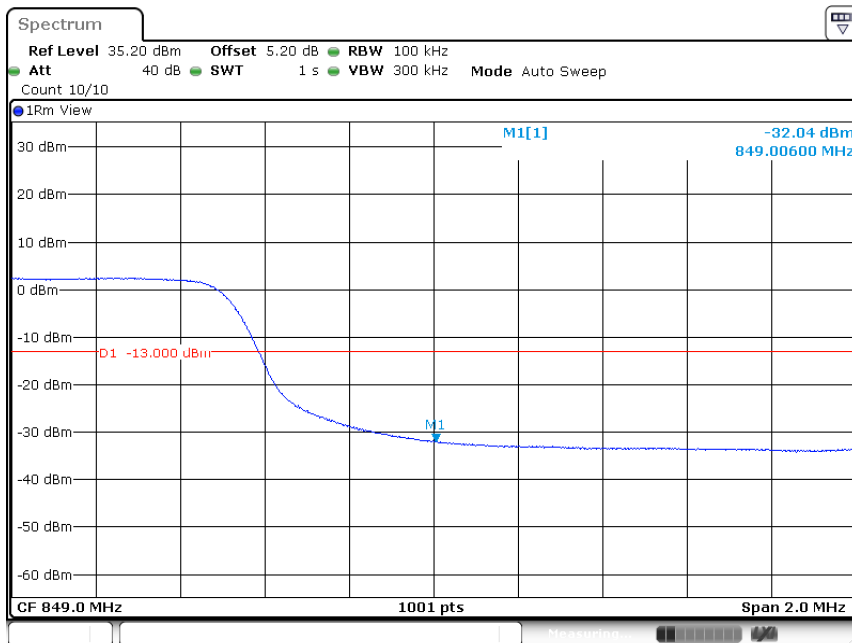
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Band5-10MHz-16QAM-20600-50RB#0



Date: 4.JAN.2021 22:43:15

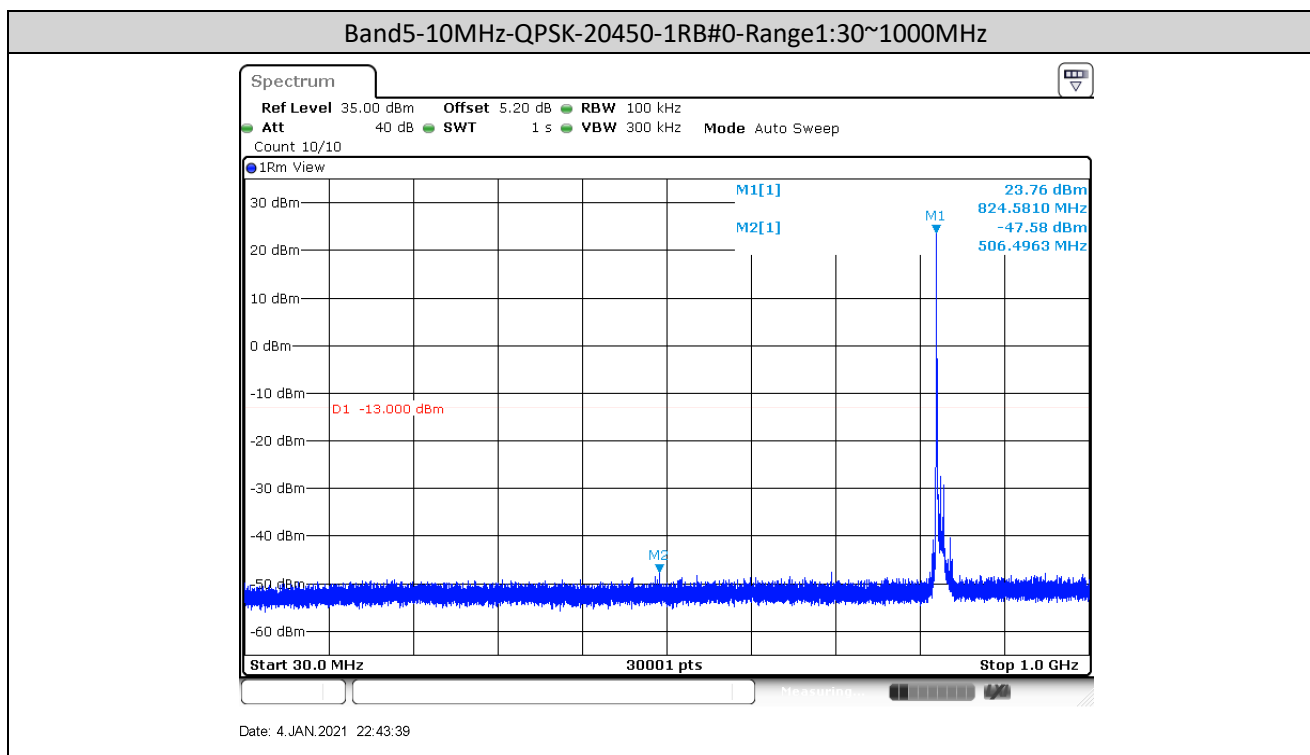


6. Spurious Emission at Antenna Terminal

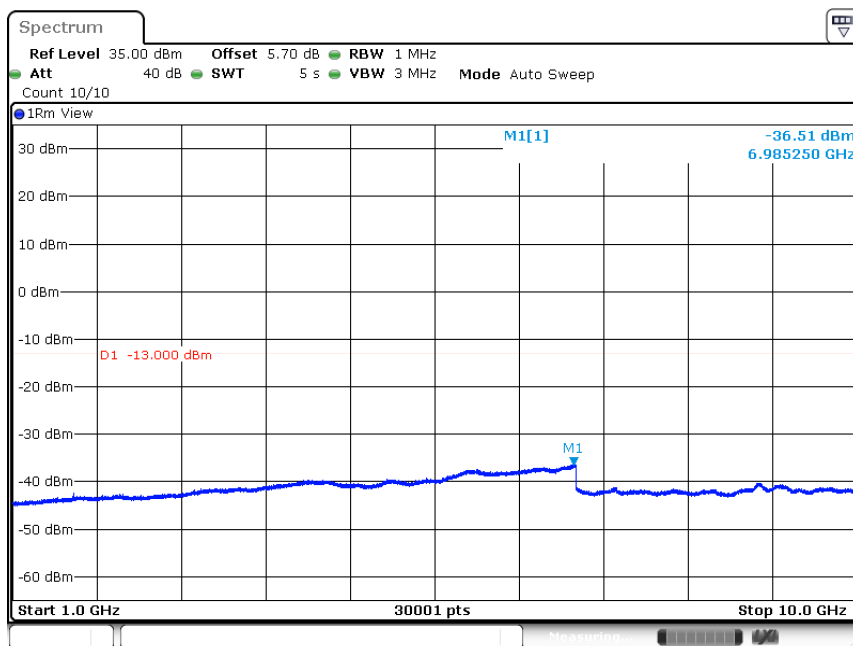
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

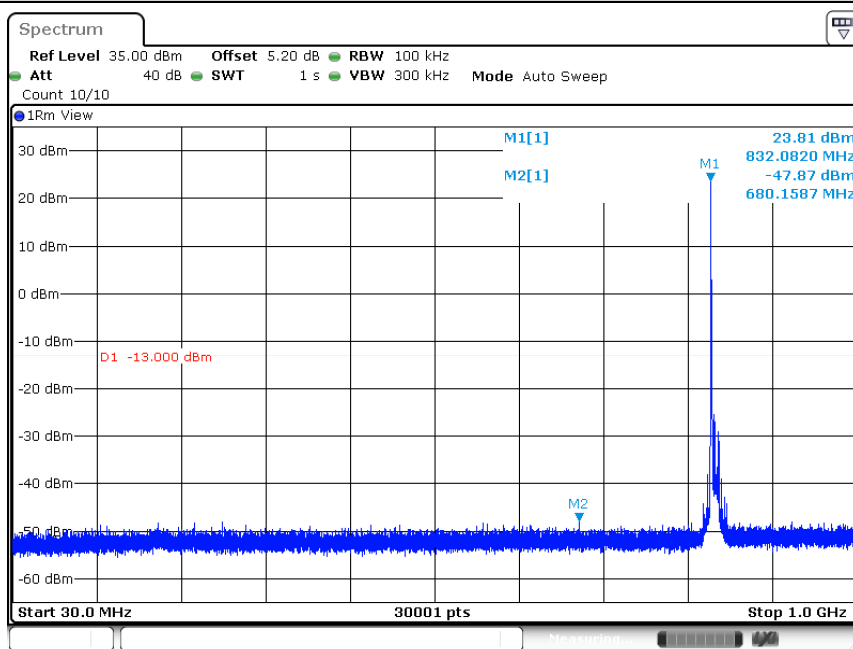


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



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

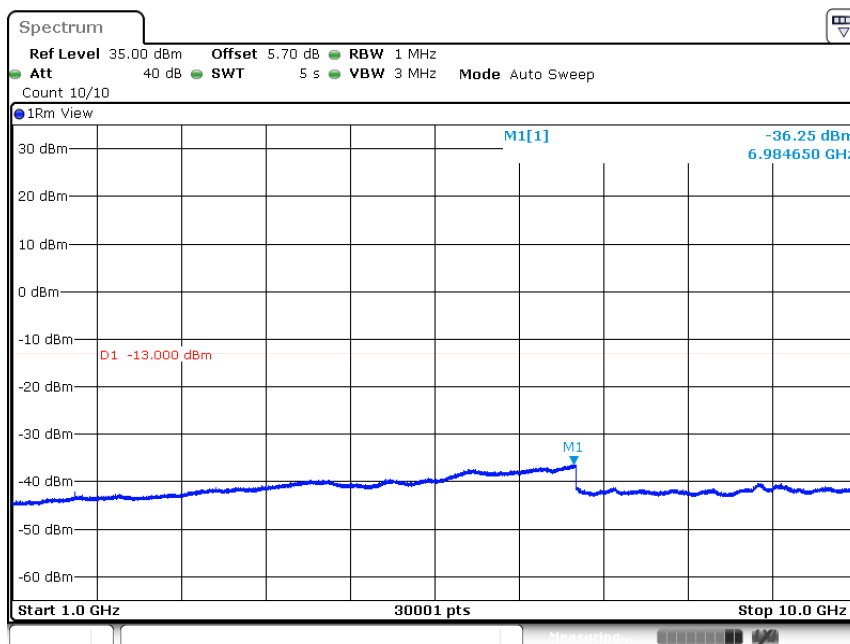
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Date: 4.JAN.2021 22:46:33

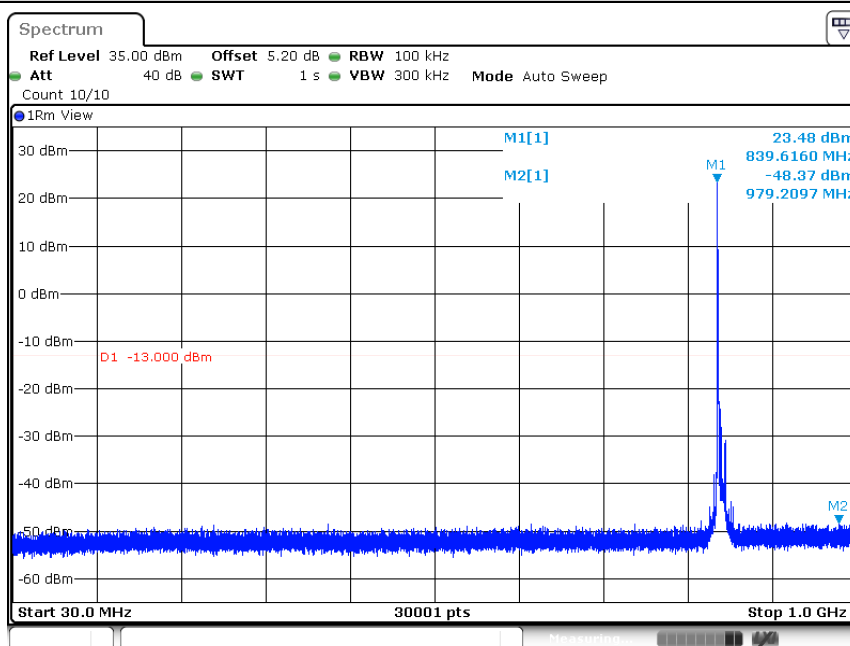


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



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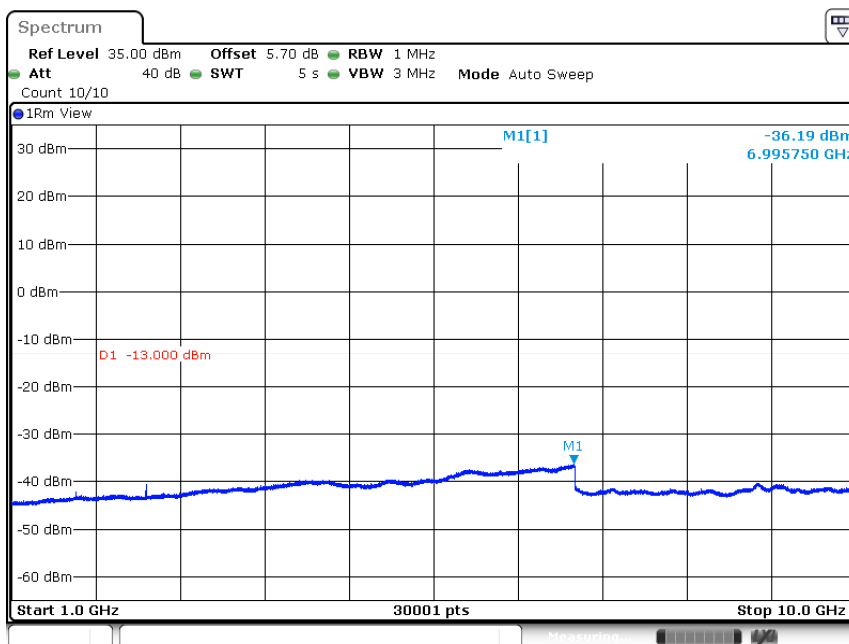
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



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

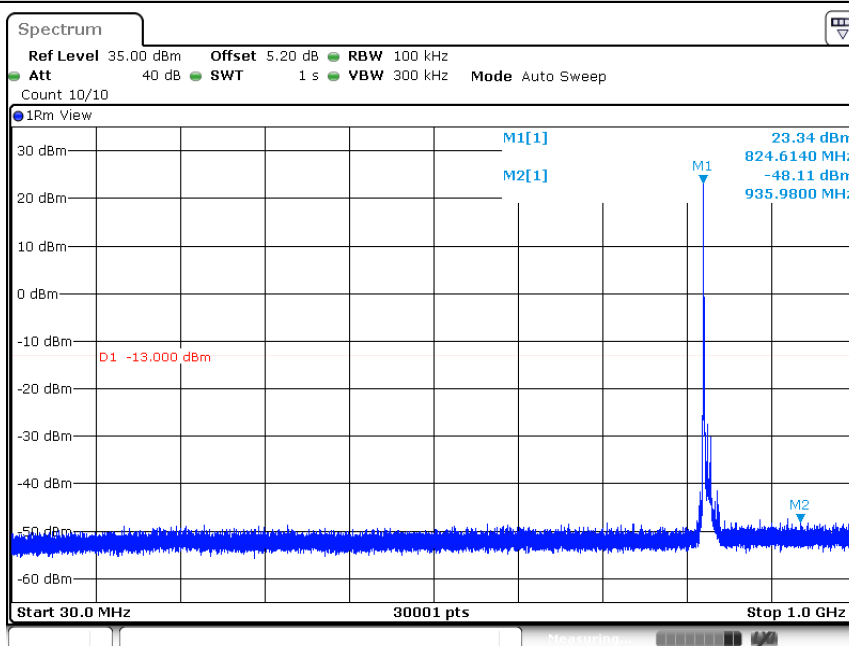


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



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

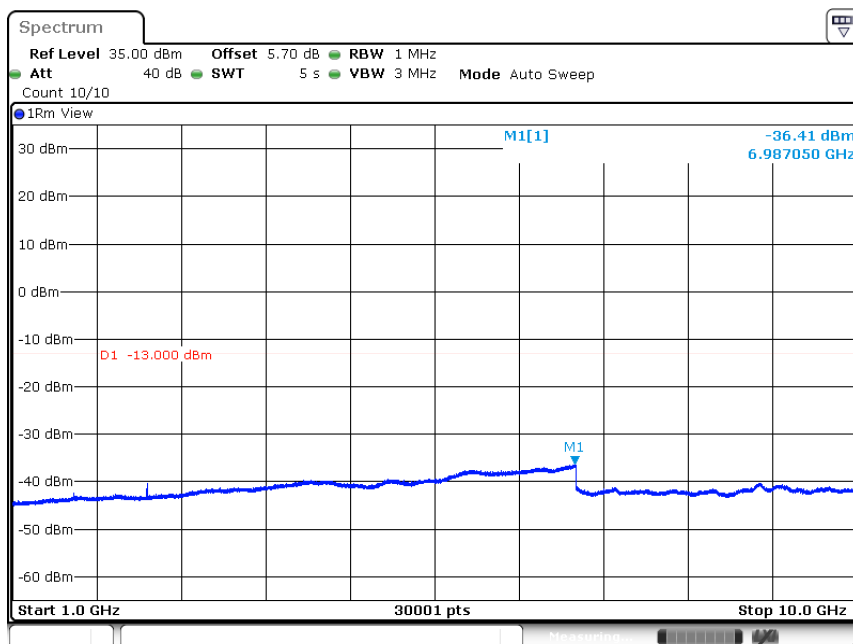
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



Date: 4.JAN.2021 22:45:06

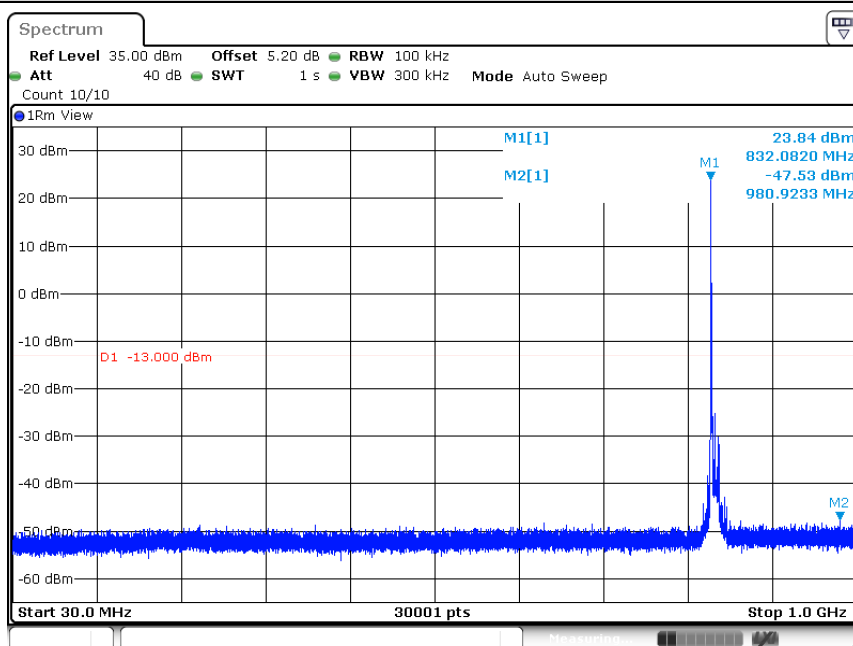


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



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

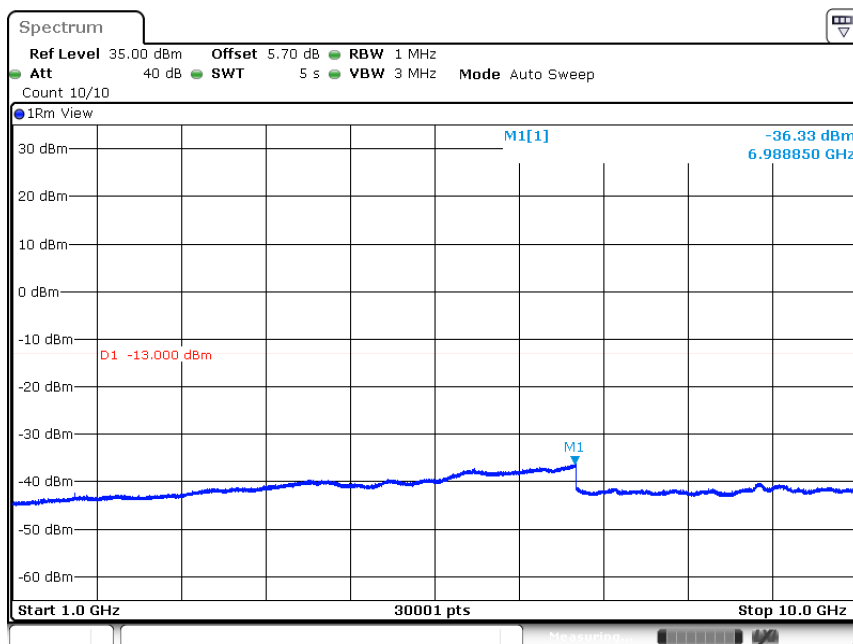
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



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

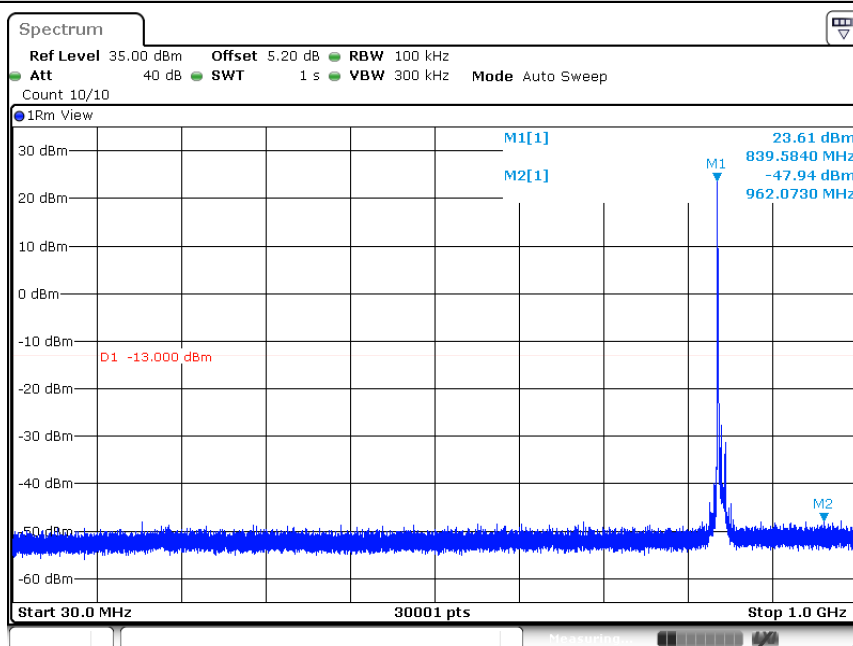


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



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

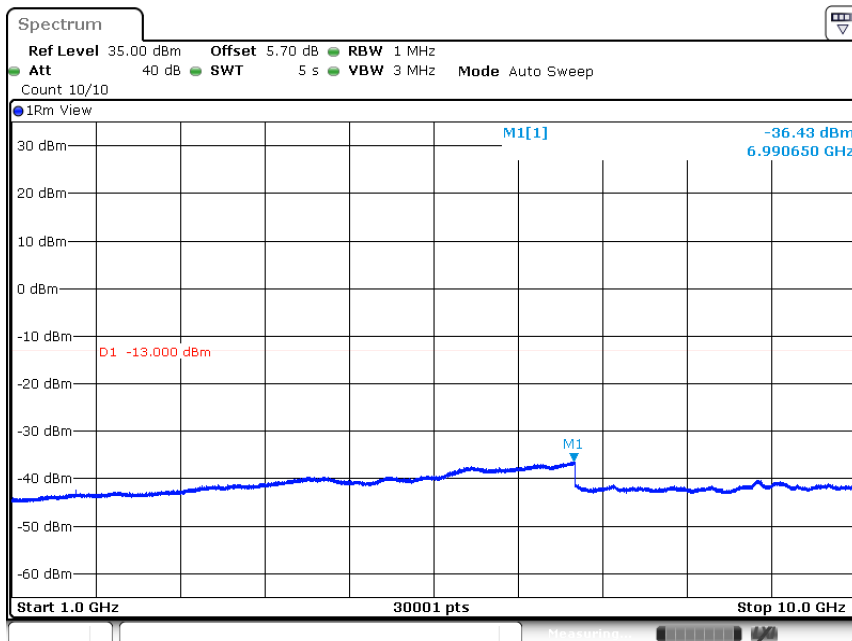
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



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]	Polarity
1	44.2112	-60.08	-13.00	47.08	Horizontal
2	240.0155	-64.70	-13.00	51.70	Horizontal
3	1649.3299	-60.62	-13.00	47.62	Horizontal
4	2473.8948	-56.15	-13.00	43.15	Horizontal
5	7446.7816	-56.00	-13.00	43.00	Horizontal
6	9311.4104	-52.60	-13.00	39.60	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]	Polarity
1	108.4769	-61.84	-13.00	48.84	Vertical
2	581.9576	-61.05	-13.00	48.05	Vertical
3	1649.3299	-60.40	-13.00	47.40	Vertical
4	2473.8948	-53.94	-13.00	40.94	Vertical
5	5772.0924	-60.19	-13.00	47.19	Vertical
6	9760.8254	-52.14	-13.00	39.14	Vertical



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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]	Polarity
1	43.5807	-61.48	-13.00	48.48	Horizontal
2	232.3036	-64.71	-13.00	51.71	Horizontal
3	602.4256	-60.05	-13.00	47.05	Horizontal
4	1664.1328	-59.55	-13.00	46.55	Horizontal
5	2496.6993	-53.30	-13.00	40.30	Horizontal
6	9545.9182	-52.75	-13.00	39.75	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]	Polarity
1	50.8560	-67.16	-13.00	54.16	Vertical
2	107.6039	-62.15	-13.00	49.15	Vertical
3	595.8293	-60.32	-13.00	47.32	Vertical
4	1664.1328	-59.34	-13.00	46.34	Vertical
5	2496.2993	-54.43	-13.00	41.43	Vertical
6	9315.1438	-53.05	-13.00	40.05	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]	Polarity
1	44.4052	-61.77	-13.00	48.77	Horizontal
2	229.3450	-63.92	-13.00	50.92	Horizontal
3	631.9636	-59.71	-13.00	46.71	Horizontal
4	1679.3359	-58.32	-13.00	45.32	Horizontal
5	2518.7037	-54.11	-13.00	41.11	Horizontal
6	8013.3338	-56.73	-13.00	43.73	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]	Polarity
1	111.4841	-61.11	-13.00	48.11	Vertical
2	681.6786	-59.82	-13.00	46.82	Vertical
3	1678.9358	-58.38	-13.00	45.38	Vertical
4	2519.1038	-52.19	-13.00	39.19	Vertical
5	5877.0959	-59.33	-13.00	46.33	Vertical
6	9555.2518	-52.91	-13.00	39.91	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

