



Appendix B

E-UTRA Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	23.25	25.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.47	25.69	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.36	25.58	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	25.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.30	25.52	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.52	25.74	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.50	24.72	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.17	25.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.48	25.70	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.19	25.41	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.41	25.63	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.33	25.55	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.35	25.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.56	24.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.27	25.49	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.36	25.58	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.23	25.45	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.34	25.56	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.41	25.63	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.33	25.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.46	24.68	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.35	24.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.76	24.98	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.21	24.43	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.40	24.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.49	24.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.37	24.59	34.77	PASS



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Band12	1.4MHz	16QAM	23017	6RB#0	21.42	23.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.14	24.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.84	25.06	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.36	24.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.18	24.40	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.32	24.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.12	24.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.43	23.65	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.27	24.49	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.79	25.01	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.20	24.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.30	24.52	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.39	24.61	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.20	24.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.40	23.62	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.29	25.51	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.38	25.60	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.38	25.60	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.27	24.49	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.41	24.63	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.40	24.62	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.33	24.55	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.25	25.47	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.29	25.51	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.26	25.48	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.26	24.48	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.47	24.69	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.36	24.58	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.38	24.60	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.30	25.52	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.37	25.59	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.32	25.54	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.42	24.64	34.77	PASS



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Band12	3MHz	QPSK	23165	8RB#7	22.39	24.61	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.40	24.62	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.37	24.59	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.29	24.51	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.39	24.61	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.21	24.43	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.47	23.69	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.52	23.74	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.56	23.78	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.34	23.56	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.69	24.91	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.70	24.92	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.71	24.93	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.45	23.67	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.45	23.67	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.42	23.64	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.34	23.56	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.36	24.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.30	24.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.56	24.78	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.52	23.74	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.32	23.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.30	23.52	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.36	23.58	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.12	25.34	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.26	25.48	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.20	25.42	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.35	24.57	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.42	24.64	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.48	24.70	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.44	24.66	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.21	25.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.27	25.49	34.77	PASS



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Band12	5MHz	QPSK	23095	1RB#12	23.17	25.39	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.25	24.47	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.36	24.58	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.29	24.51	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.42	24.64	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.11	25.33	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.36	25.58	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.20	25.42	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.41	24.63	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.46	24.68	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.32	24.54	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.42	24.64	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.64	24.86	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.65	24.87	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.61	24.83	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.32	23.54	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.35	23.57	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.38	23.60	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.32	23.54	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.27	24.49	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.39	24.61	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.53	24.75	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.26	23.48	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.27	23.49	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.25	23.47	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.39	23.61	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.34	24.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.60	24.82	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.36	24.58	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.36	23.58	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.43	23.65	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.40	23.62	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.49	23.71	34.77	PASS



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Band12	10MHz	QPSK	23060	1RB#49	23.32	25.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.33	25.55	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.32	25.54	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.31	24.53	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.41	24.63	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.56	24.78	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.53	24.75	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.26	25.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.35	25.57	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.38	25.60	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.36	24.58	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.48	24.70	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.49	24.71	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.34	24.56	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.16	25.38	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.27	25.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.35	25.57	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.39	24.61	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.36	24.58	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.40	24.62	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.48	24.70	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.68	24.90	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.82	25.04	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.72	24.94	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.33	23.55	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.41	23.63	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.47	23.69	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.40	23.62	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.40	24.62	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.52	24.74	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.85	25.07	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.27	23.49	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.38	23.60	34.77	PASS



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Band12	10MHz	16QAM	23095	25RB#12	21.41	23.63	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.32	23.54	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.65	24.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.63	24.85	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.69	24.91	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.28	23.50	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.46	23.68	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.26	23.48	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.39	23.61	34.77	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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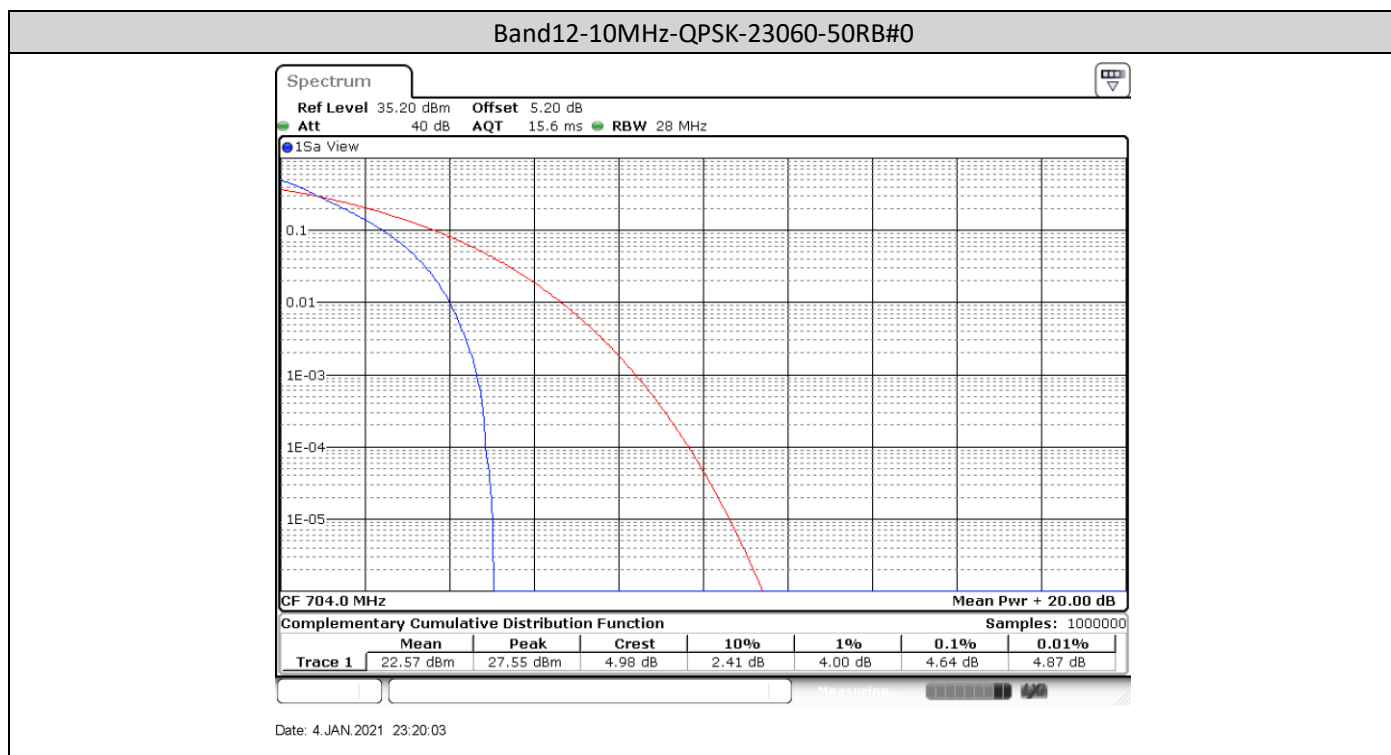


2. Peak-to-Average Ratio (CCDF)

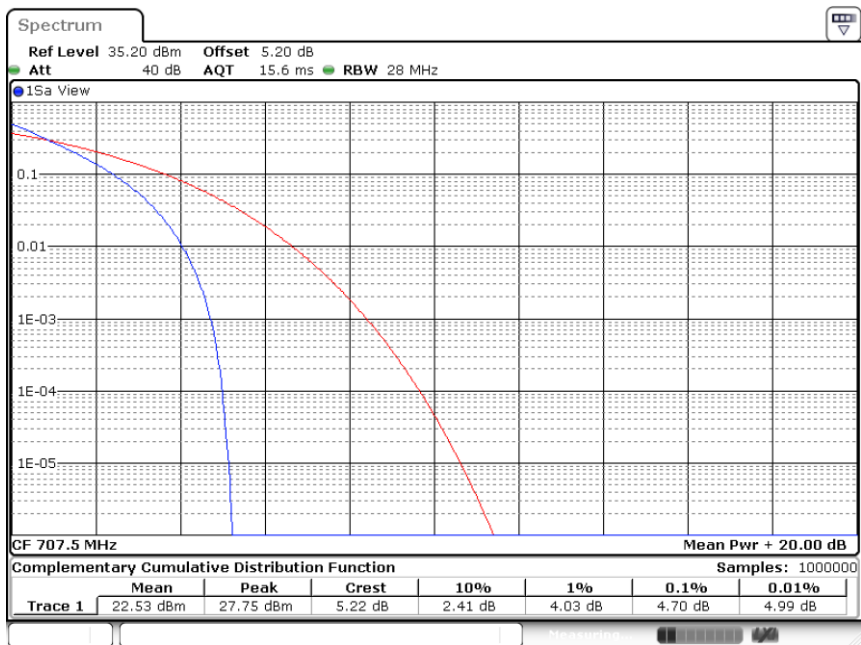
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.64	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.78	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.62	13	PASS

2.2. Test Plots

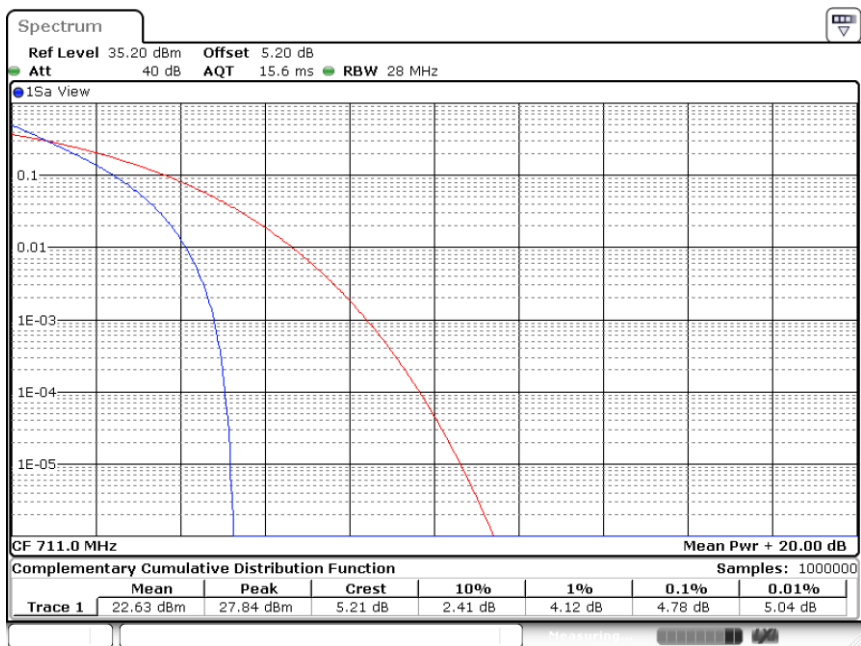


Band12-10MHz-QPSK-23095-50RB#0



Date: 4 JAN.2021 23:20:26

Band12-10MHz-QPSK-23130-50RB#0



Date: 4 JAN.2021 23:20:49



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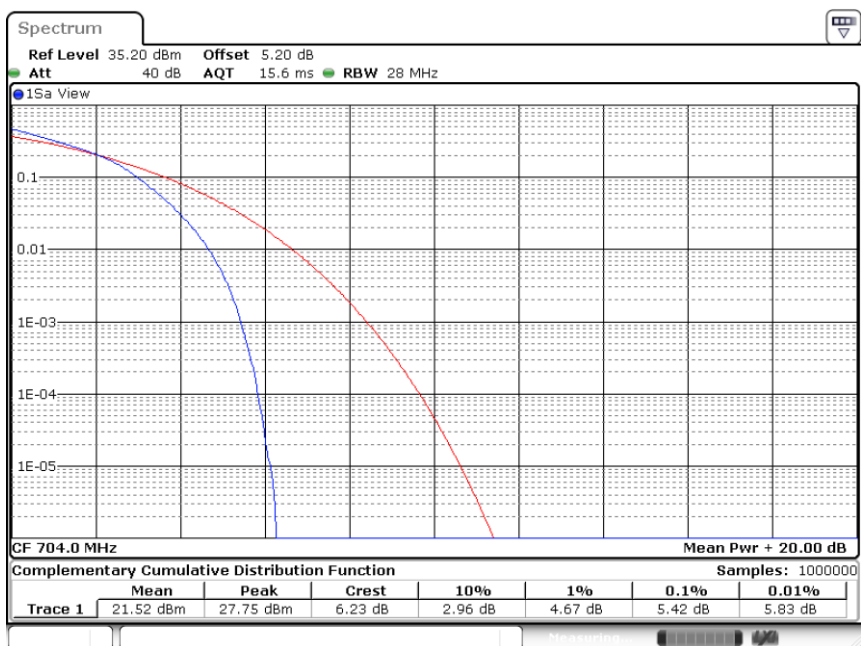
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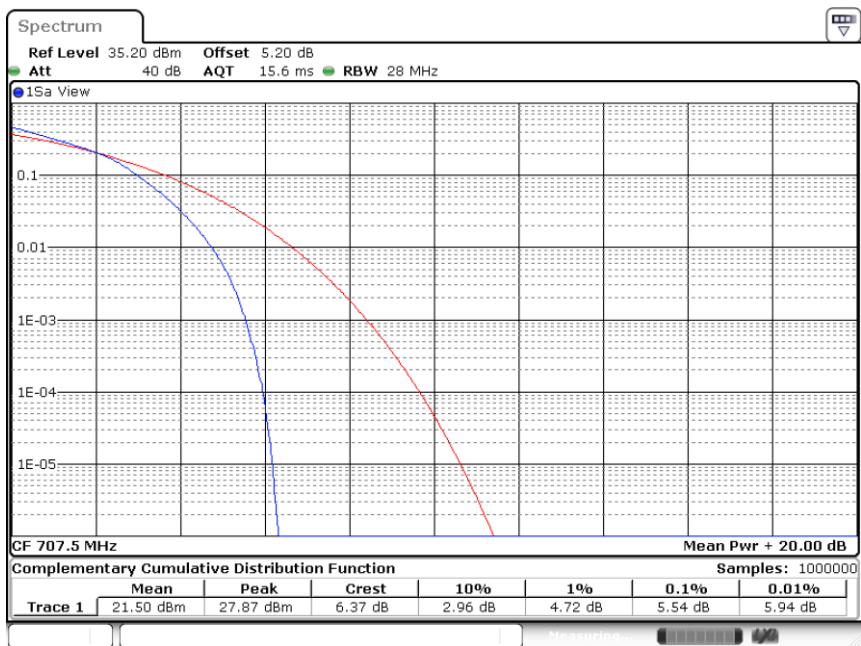
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Band12-10MHz-16QAM-23060-50RB#0



Date: 4, JAN. 2021 23:20:15

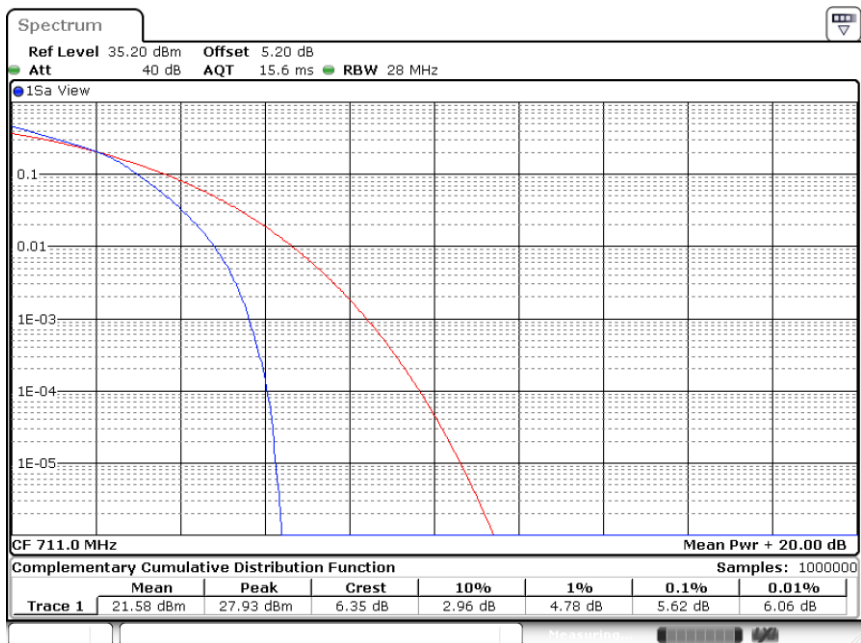
Band12-10MHz-16QAM-23095-50RB#0



Date: 4, JAN. 2021 23:30:37



Band12-10MHz-16QAM-23130-50RB#0



Date: 4 JAN 2021 23:21:00



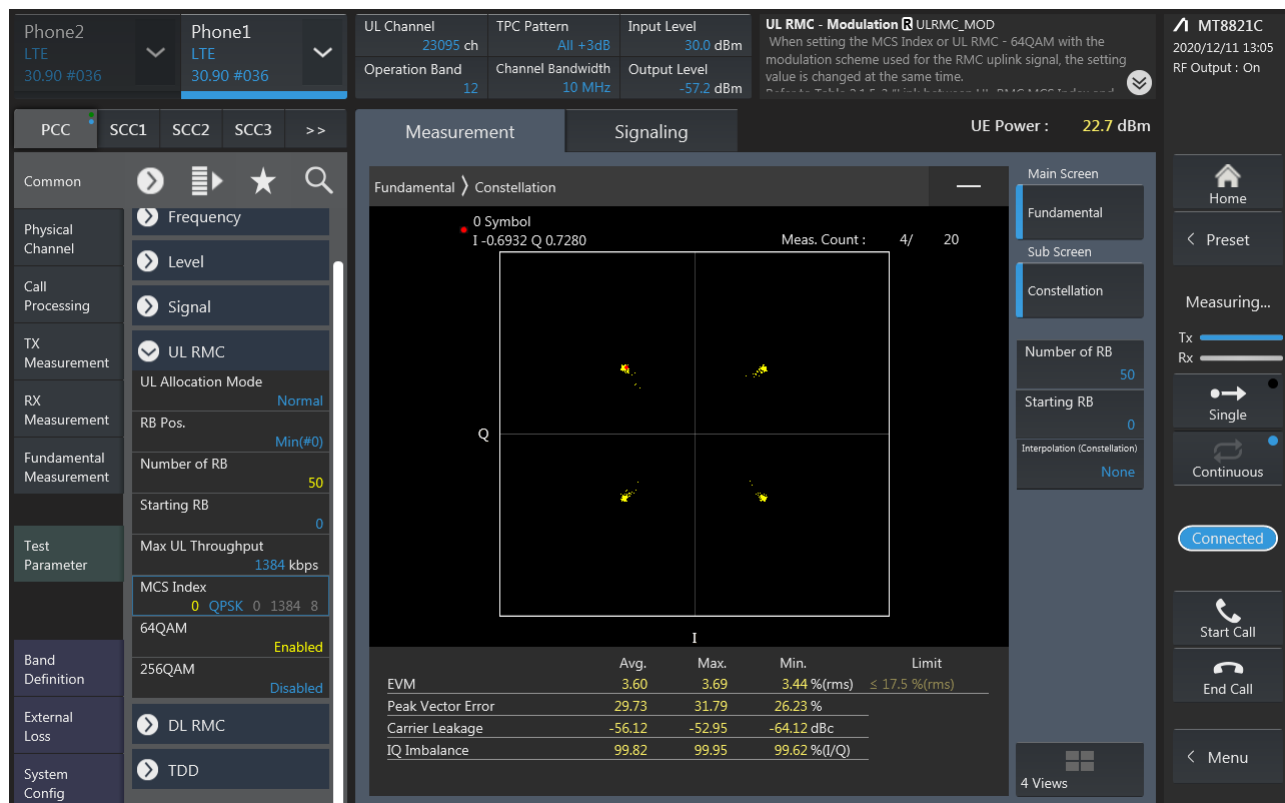
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

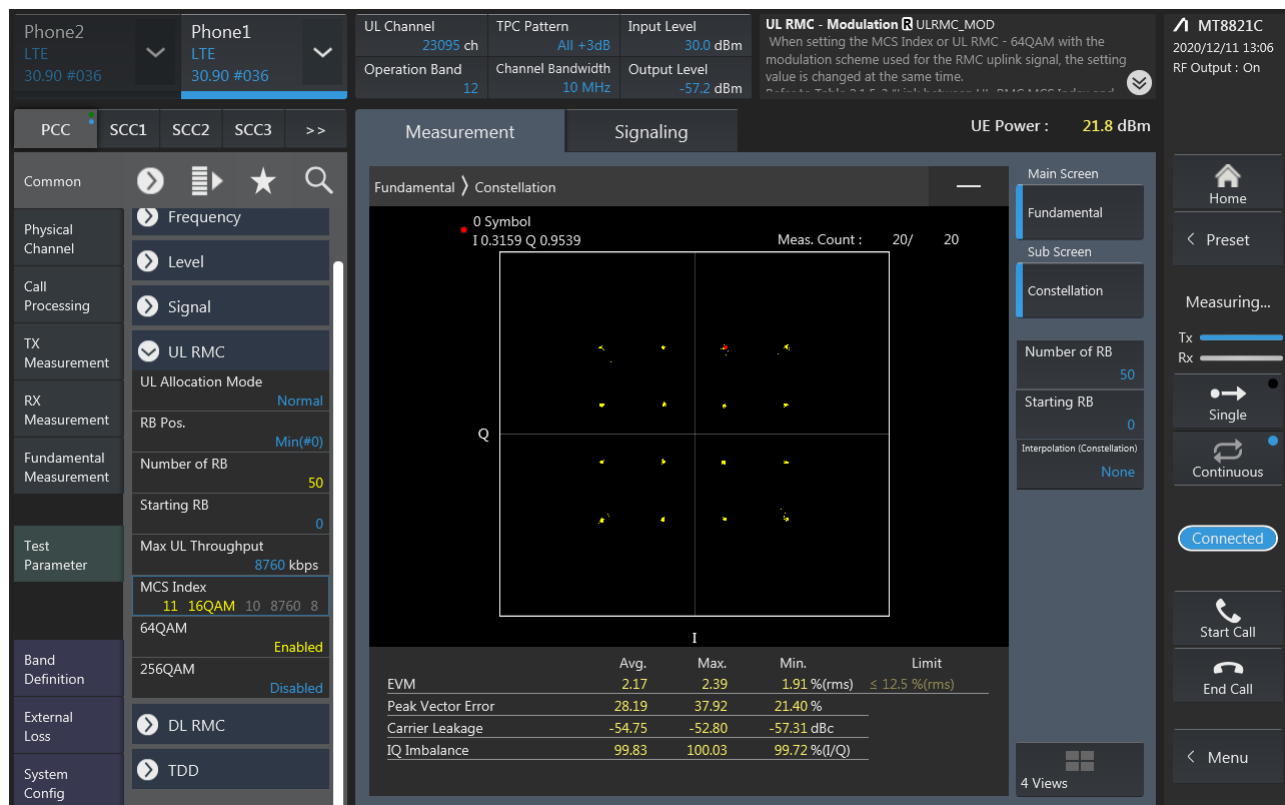
3.1.1. Test Channel = MCH





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
Band12	1.4MHz	QPSK	23017	6RB#0	1.094	1.287	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.287	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.296	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.281	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.290	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.290	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.691	2.928	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.922	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.691	2.934	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.679	2.904	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.904	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.679	2.898	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.486	5.100	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.200	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	5.090	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.496	5.110	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	5.090	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	5.110	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.931	9.860	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.931	9.860	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.951	9.920	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.951	9.880	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.931	9.860	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.971	9.860	PASS



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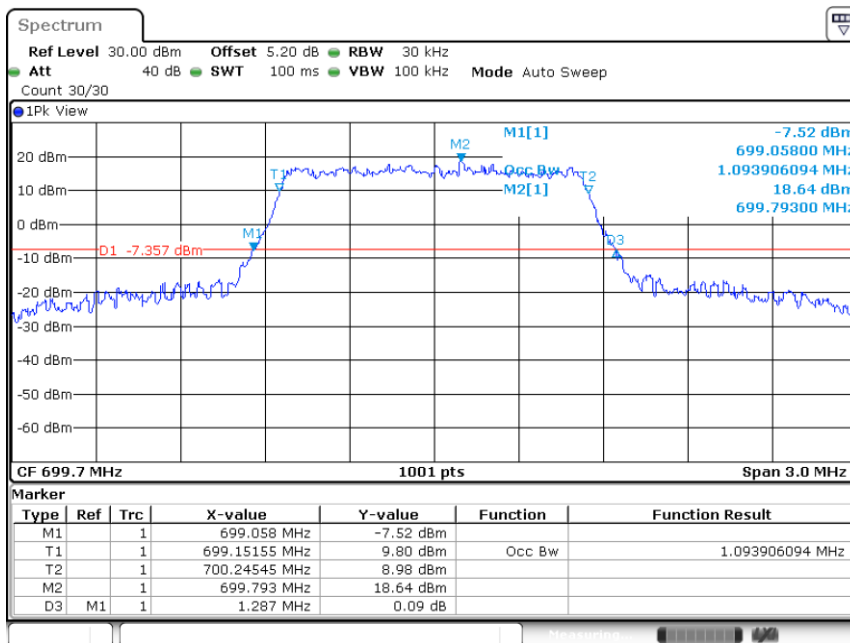
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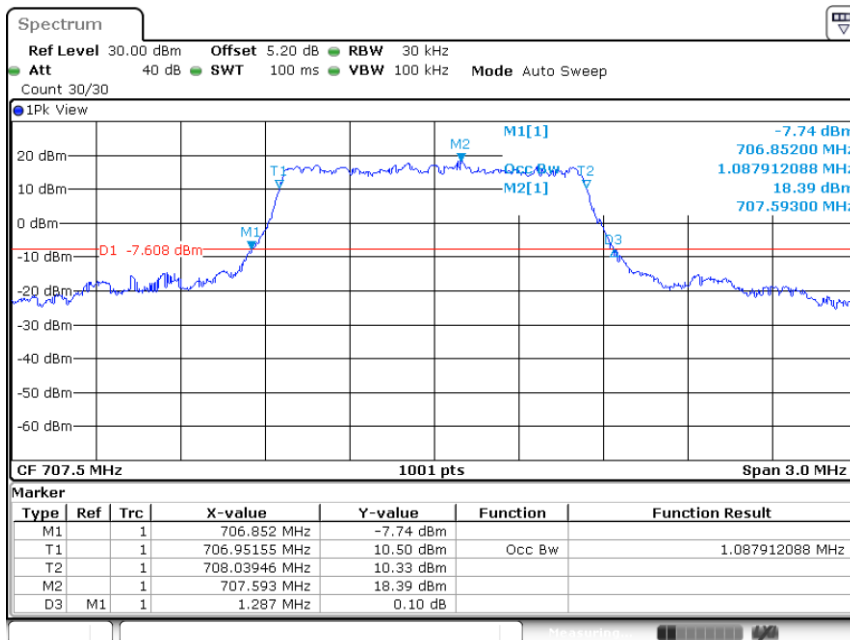
4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.094



Date: 4, JAN. 2021 22:53:31

Band12-1.4MHz-QPSK-23095-6RB#0-1.088



Date: 4, JAN. 2021 22:53:57



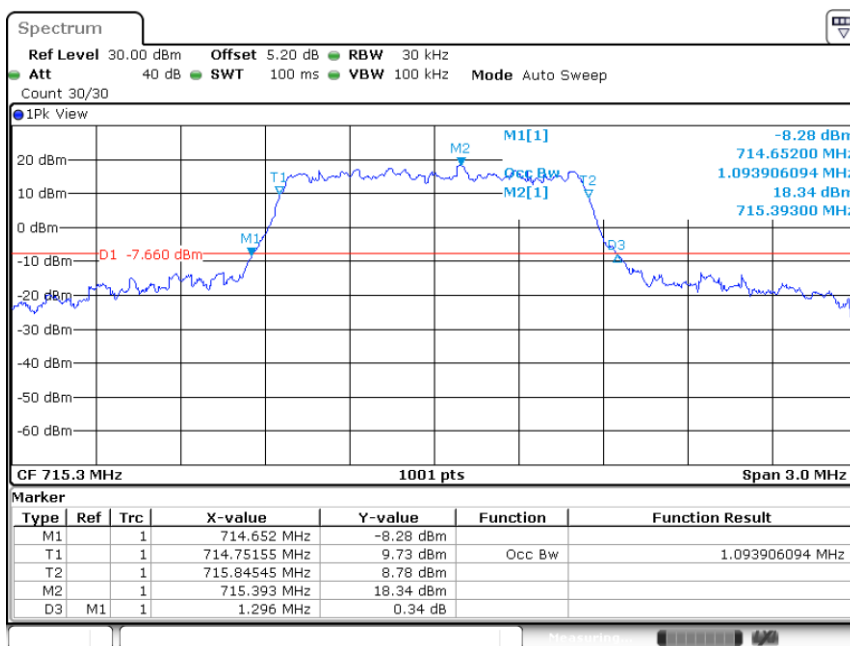
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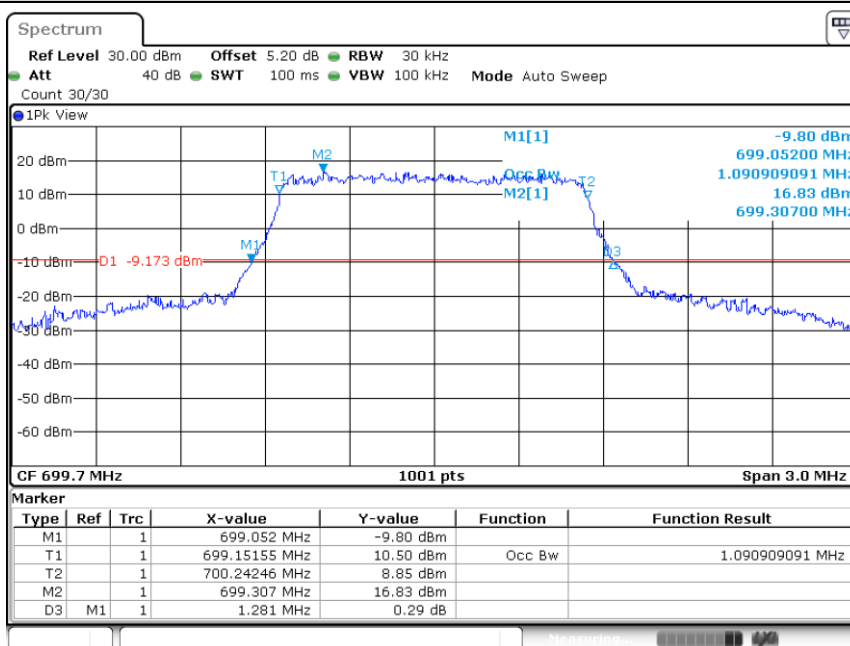


Band12-1.4MHz-QPSK-23173-6RB#0-1.094



Date: 4, JAN. 2021 22:54:23

Band12-1.4MHz-16QAM-23017-6RB#0-1.091

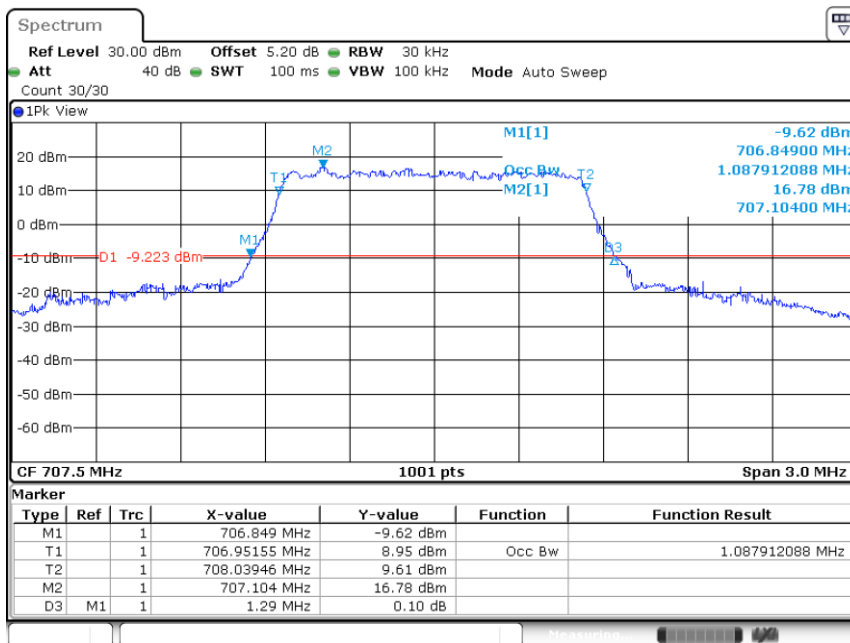


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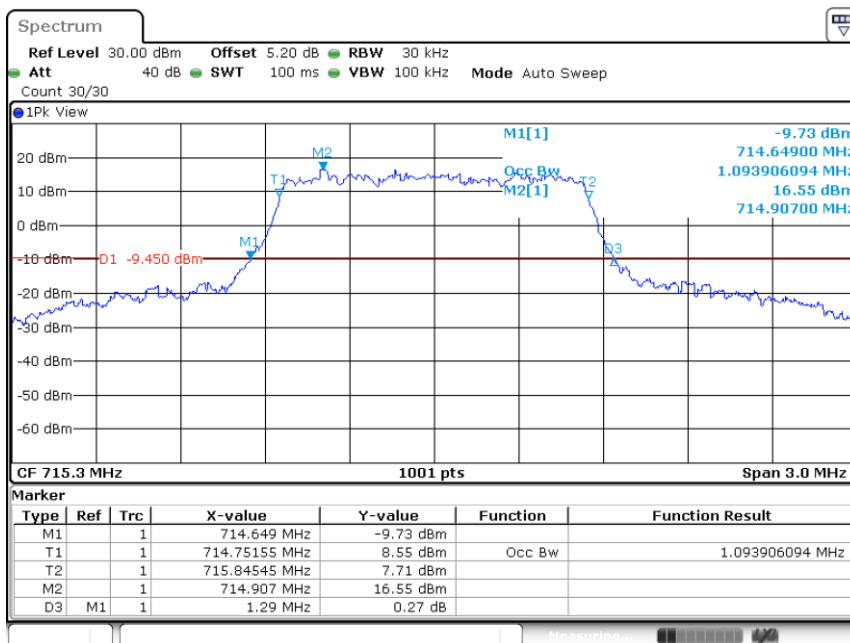


Band12-1.4MHz-16QAM-23095-6RB#0-1.088



Date: 4, JAN. 2021 22:54:10

Band12-1.4MHz-16QAM-23173-6RB#0-1.094



Date: 4, JAN. 2021 22:54:35



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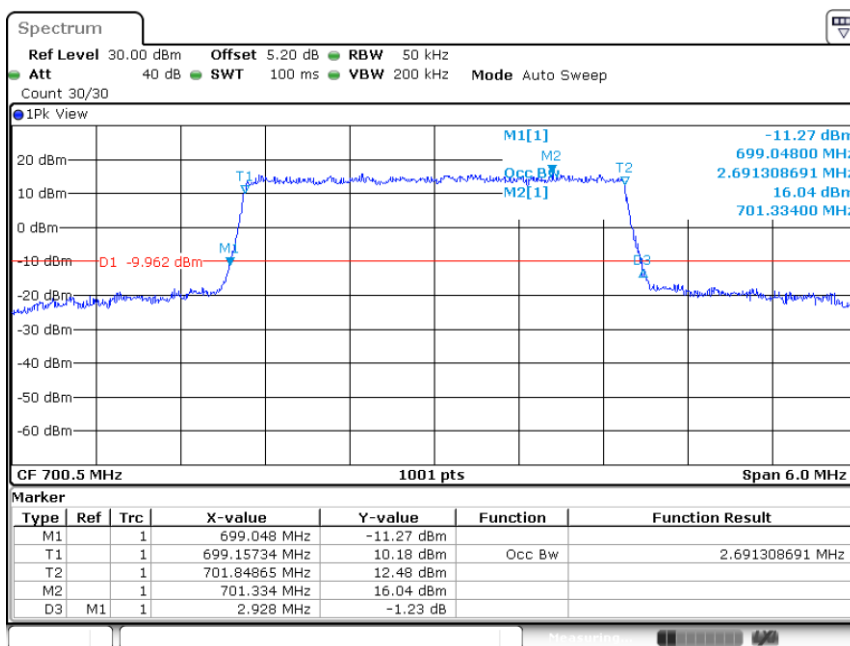
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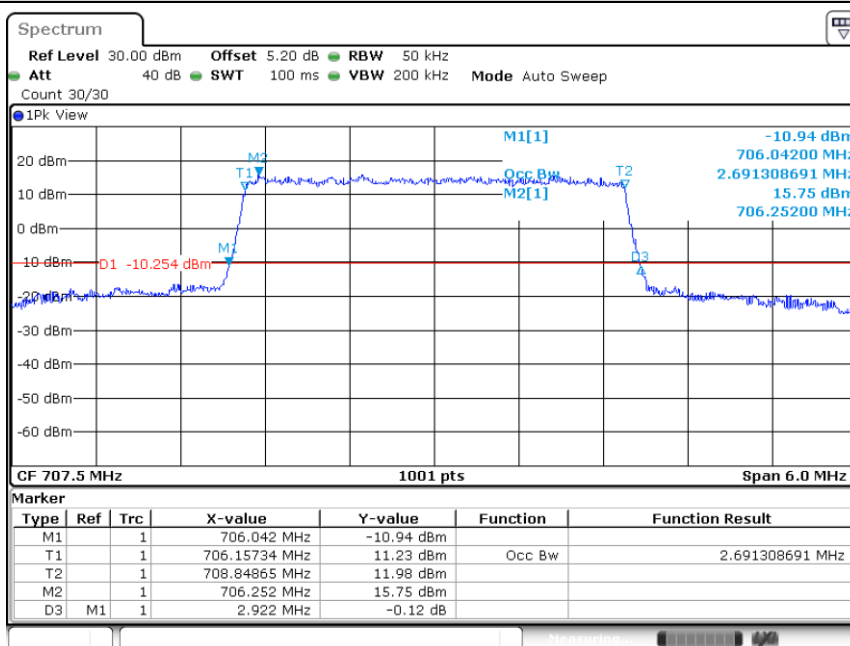


Band12-3MHz-QPSK-23025-15RB#0-2.691



Date: 4. JAN.2021 22:54:53

Band12-3MHz-QPSK-23095-15RB#0-2.691

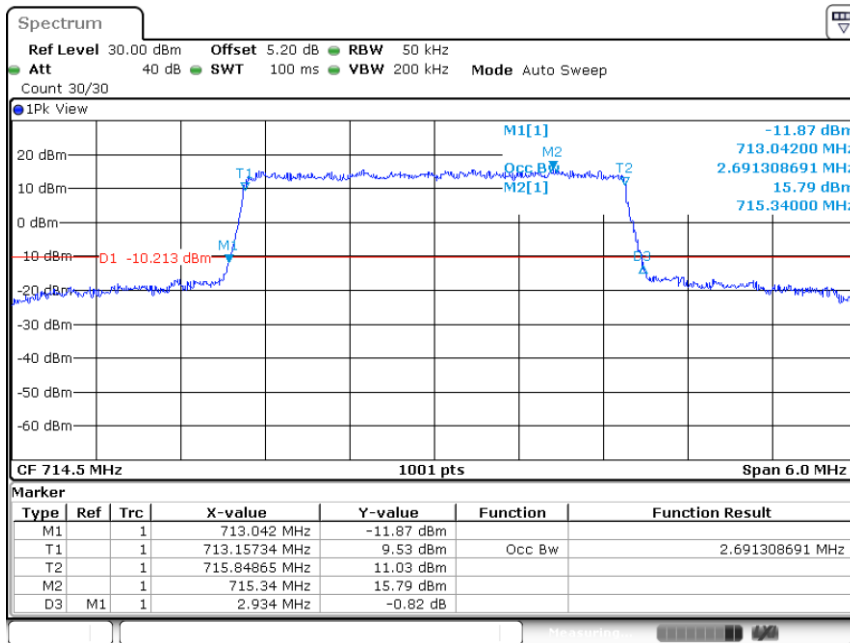


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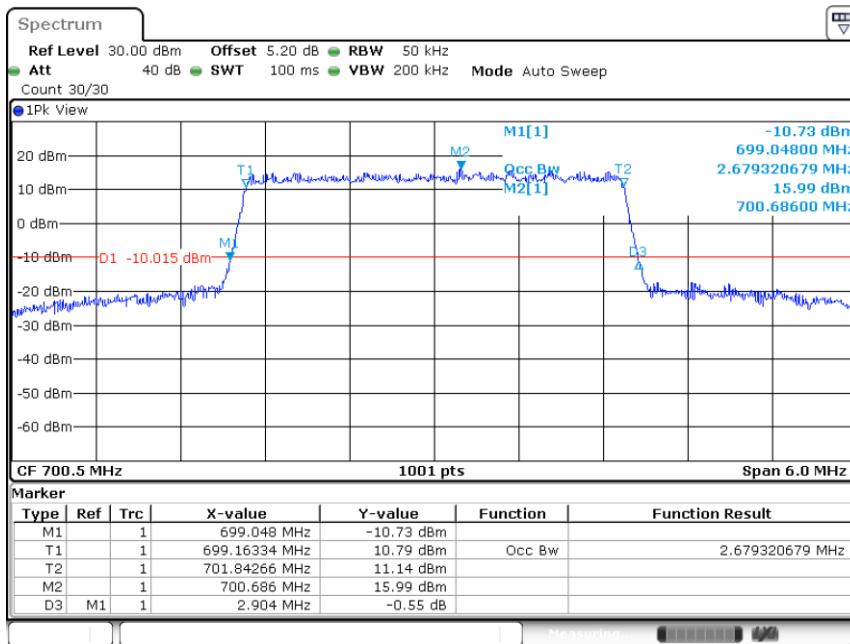


Band12-3MHz-QPSK-23165-15RB#0-2.691



Date: 4, JAN. 2021 22:55:44

Band12-3MHz-16QAM-23025-15RB#0-2.679

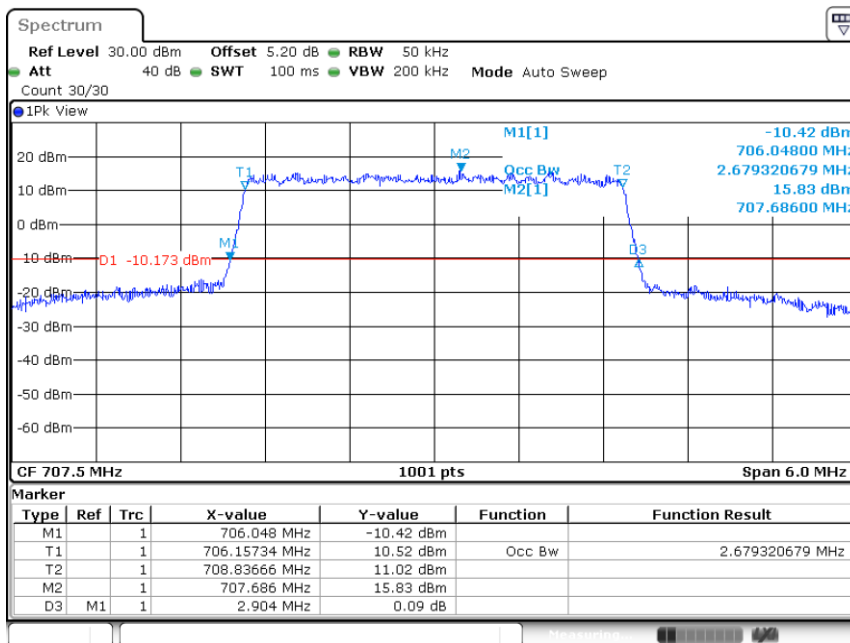


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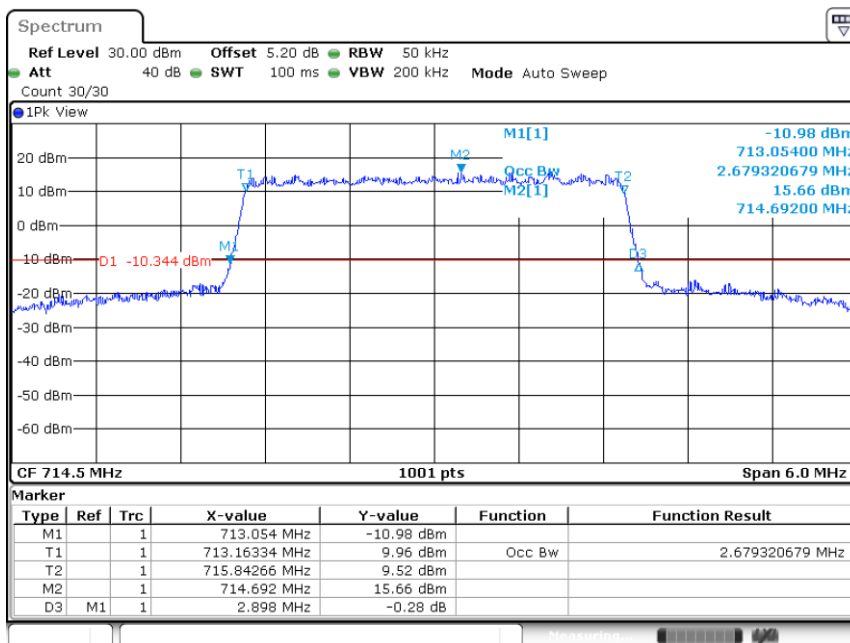


Band12-3MHz-16QAM-23095-15RB#0-2.679



Date: 4. JAN.2021 22:55:31

Band12-3MHz-16QAM-23165-15RB#0-2.679



Date: 4. JAN.2021 22:55:57



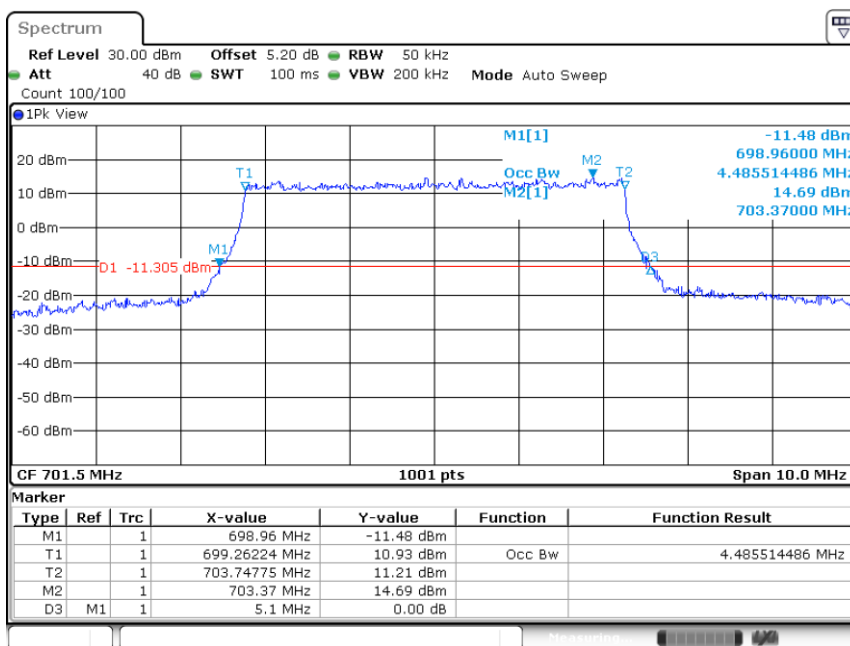
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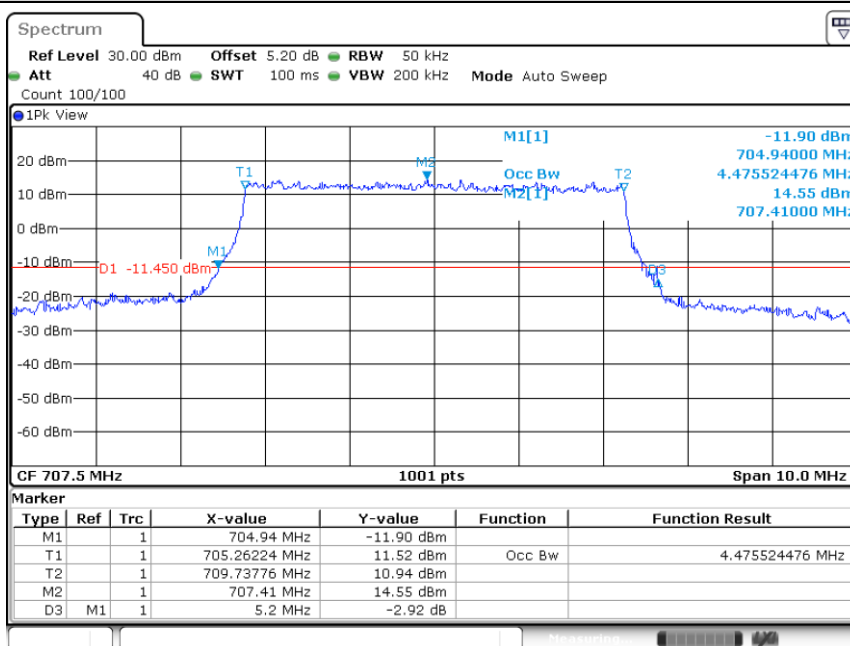


Band12-5MHz-QPSK-23035-25RB#0-4.486



Date: 4. JAN. 2021 22:56:21

Band12-5MHz-QPSK-23095-25RB#0-4.476



Date: 4. JAN. 2021 22:57:02



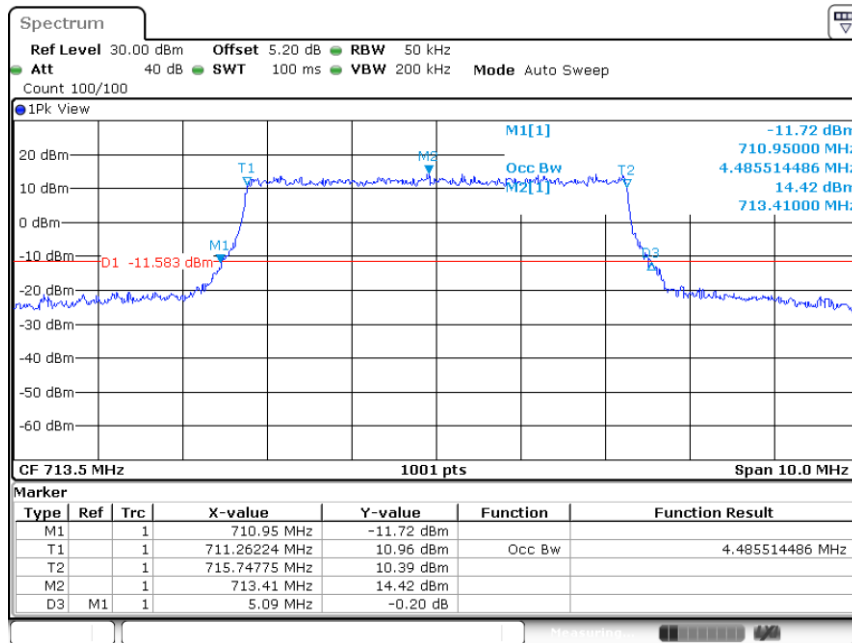
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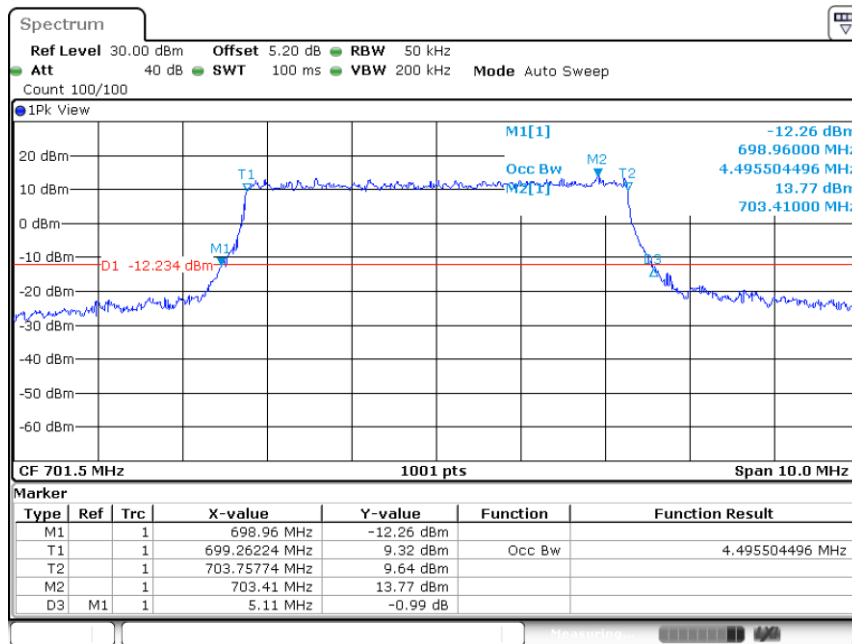


Band12-5MHz-QPSK-23155-25RB#0-4.486



Date: 4.JAN.2021 22:57:42

Band12-5MHz-16QAM-23035-25RB#0-4.496

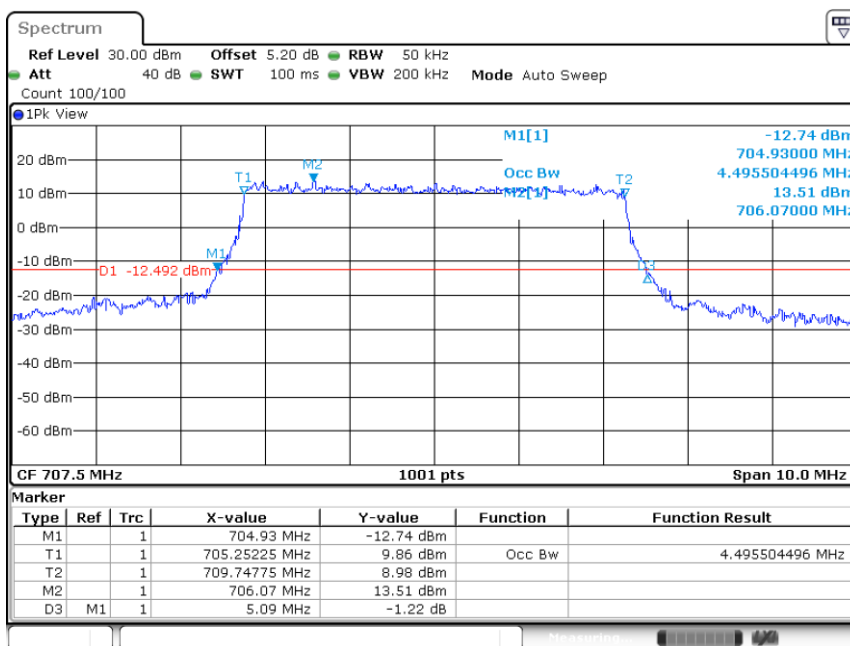


Date: 4.JAN.2021 22:56:41



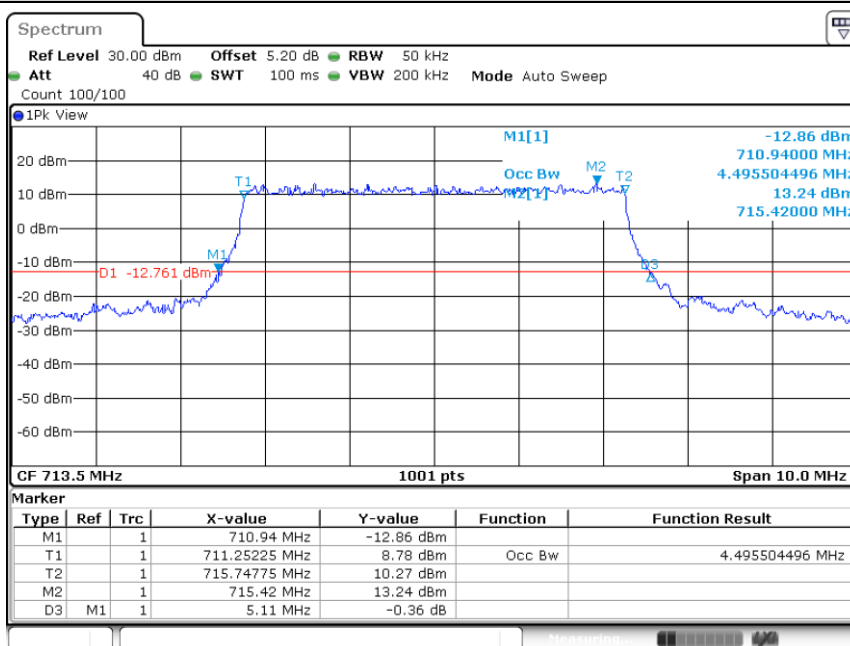


Band12-5MHz-16QAM-23095-25RB#0-4.496



Date: 4. JAN.2021 22:57:21

Band12-5MHz-16QAM-23155-25RB#0-4.496



Date: 4. JAN.2021 22:58:02



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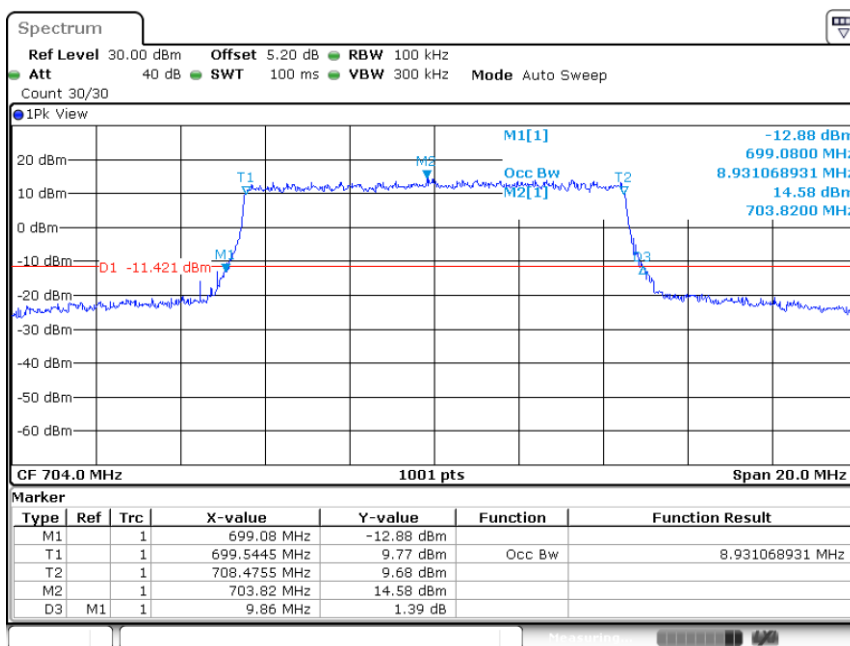
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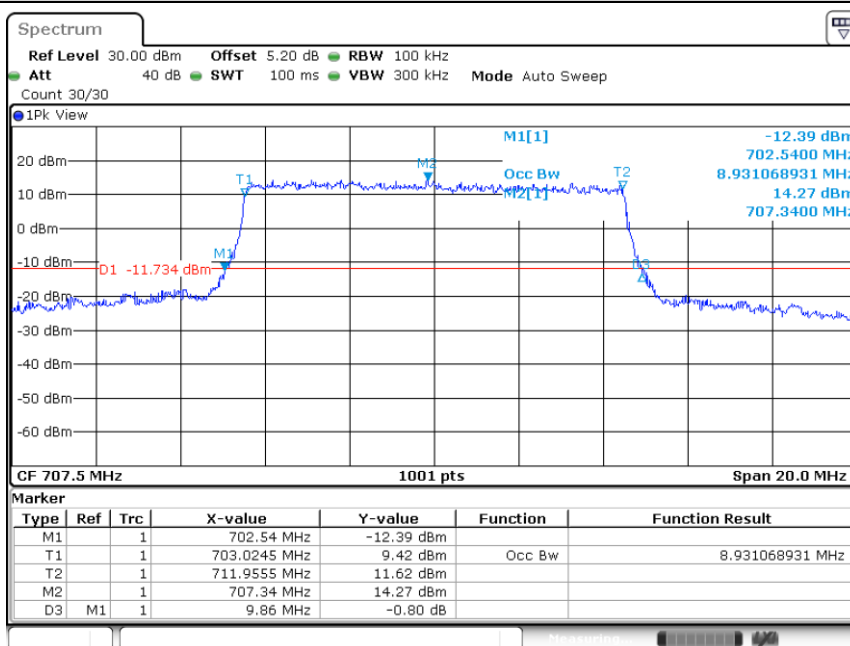


Band12-10MHz-QPSK-23060-50RB#0-8.931



Date: 4, JAN. 2021 22:58:19

Band12-10MHz-QPSK-23095-50RB#0-8.931



Date: 4, JAN. 2021 22:58:45



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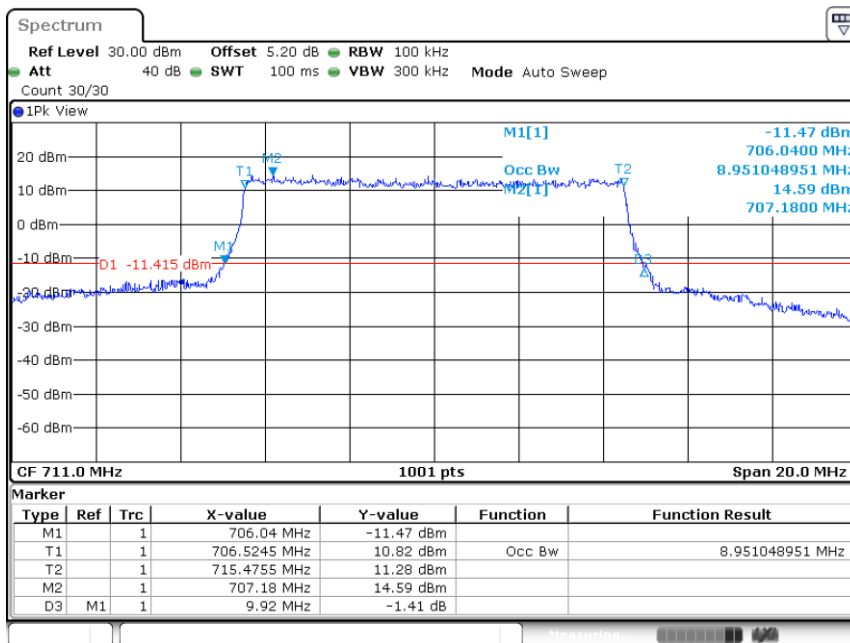
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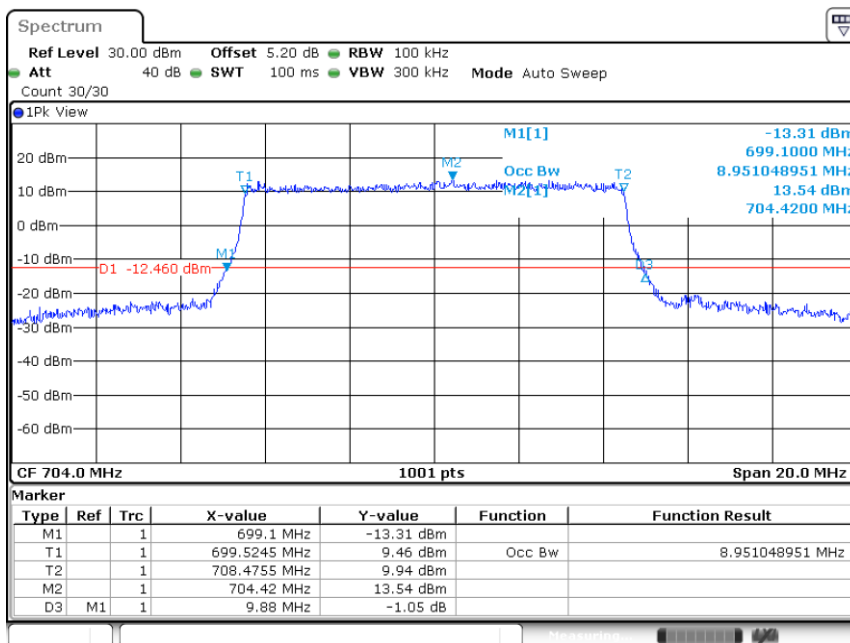


Band12-10MHz-QPSK-23130-50RB#0-8.951



Date: 4, JAN. 2021 22:59:11

Band12-10MHz-16QAM-23060-50RB#0-8.951



Date: 4, JAN. 2021 22:58:32



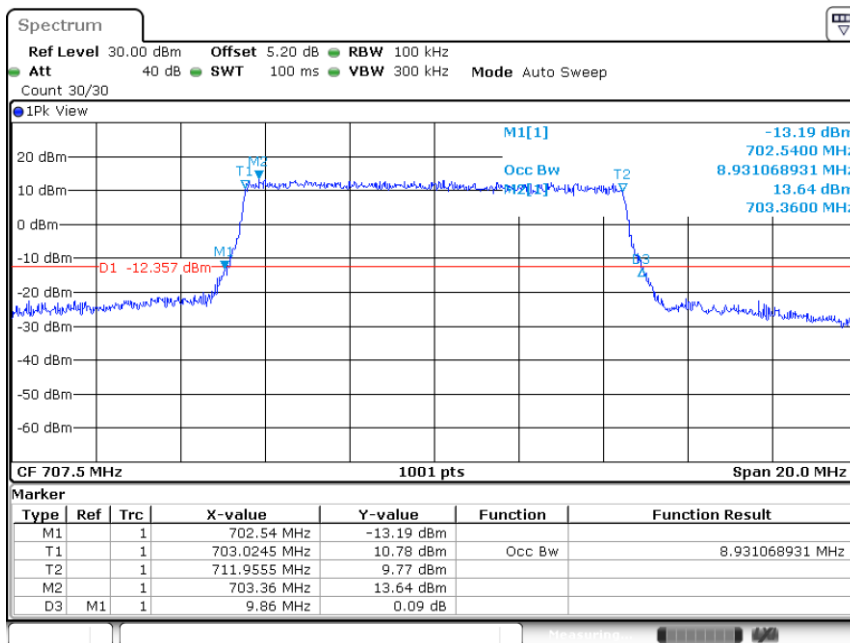
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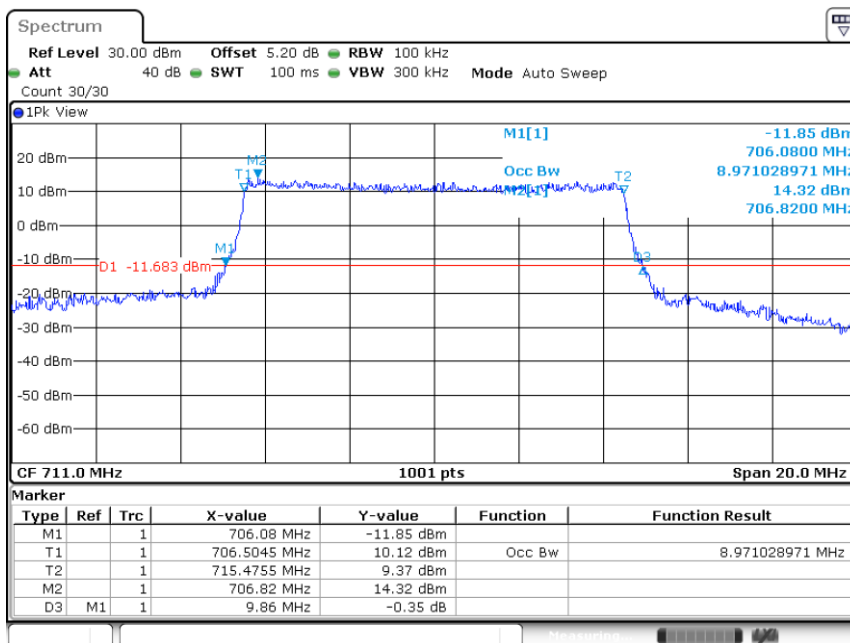


Band12-10MHz-16QAM-23095-50RB#0-8.931



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

Band12-10MHz-16QAM-23130-50RB#0-8.971



Date: 4, JAN. 2021 22:59:24



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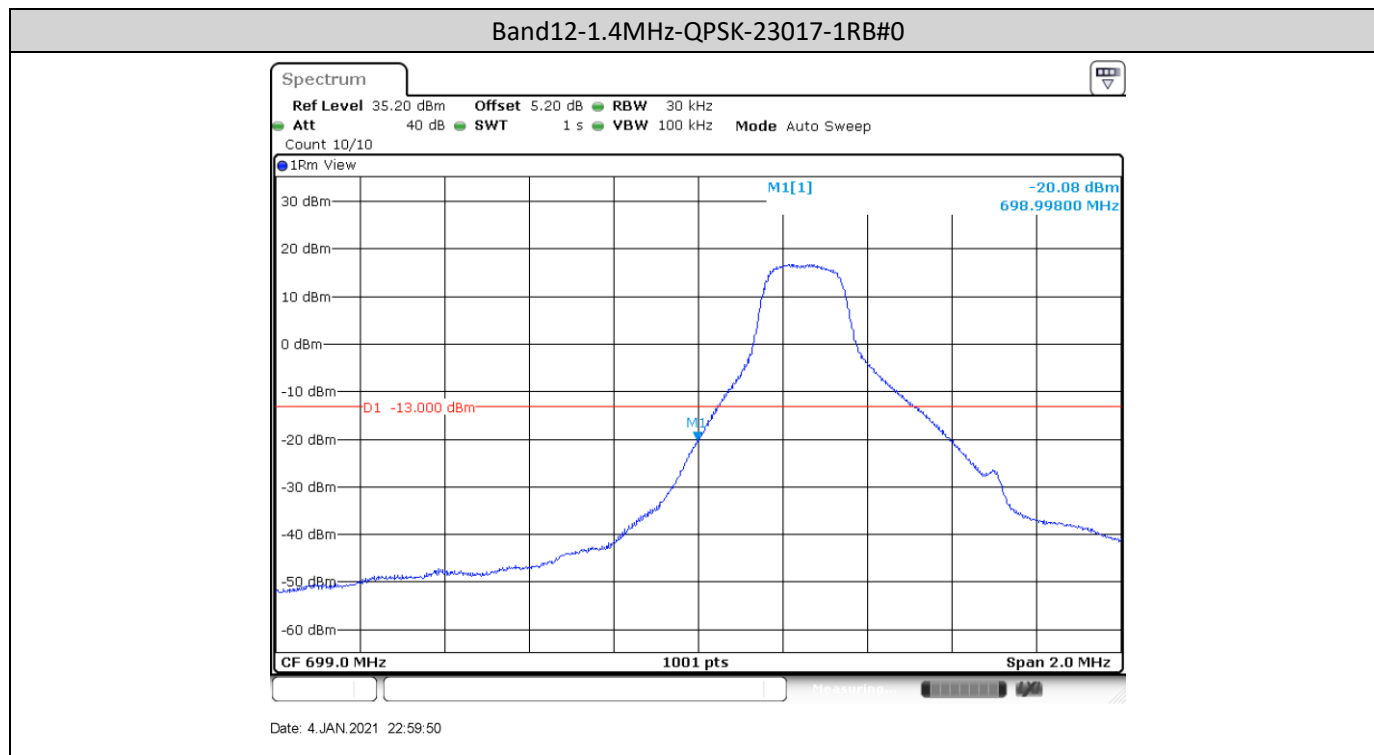
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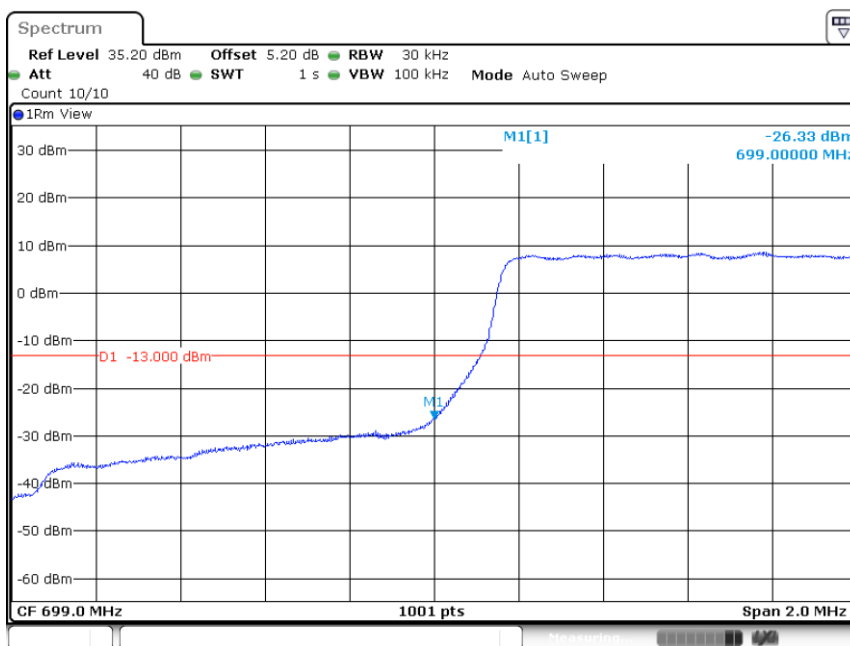
5. Band Edge Compliance

5.1. Test Plots



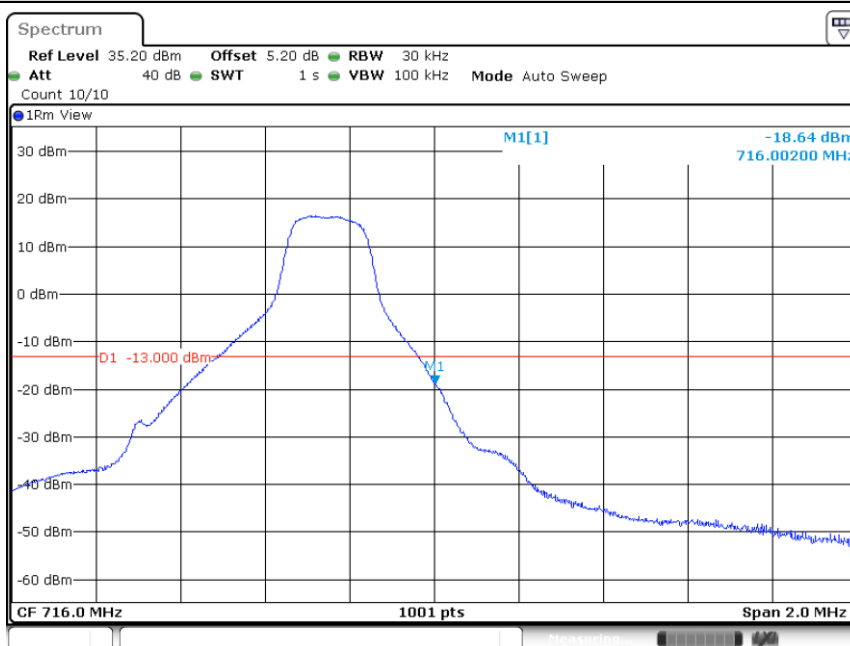


Band12-1.4MHz-QPSK-23017-6RB#0



Date: 4, JAN. 2021 23:00:31

Band12-1.4MHz-QPSK-23173-1RB#5



Date: 4, JAN. 2021 23:01:17



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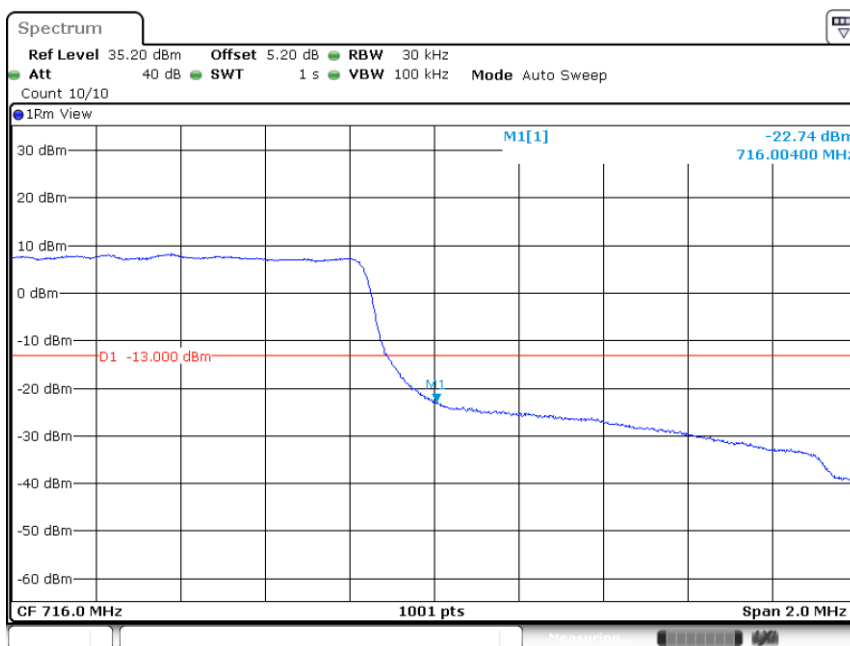
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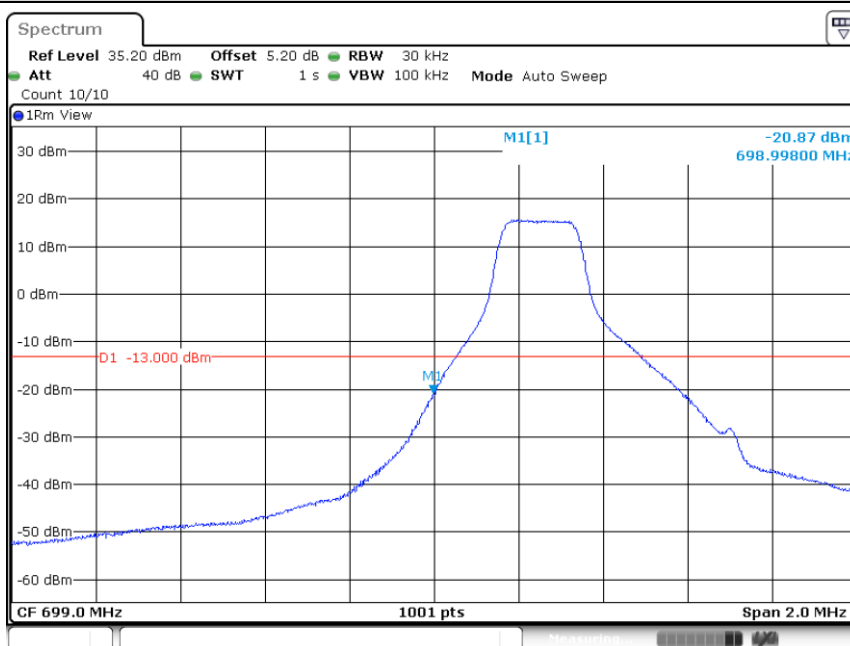


Band12-1.4MHz-QPSK-23173-6RB#0



Date: 4, JAN. 2021 23:01:58

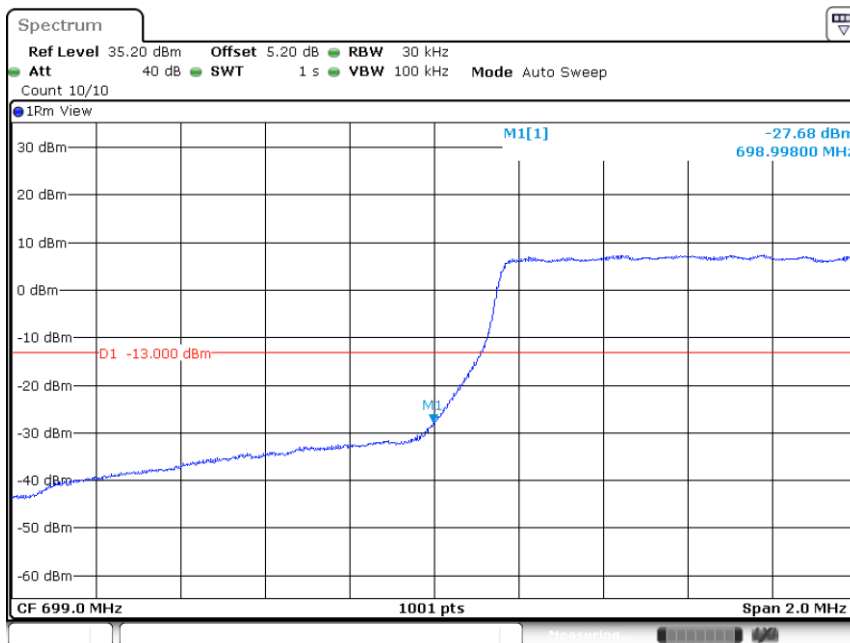
Band12-1.4MHz-16QAM-23017-1RB#0



Date: 4, JAN. 2021 23:00:10

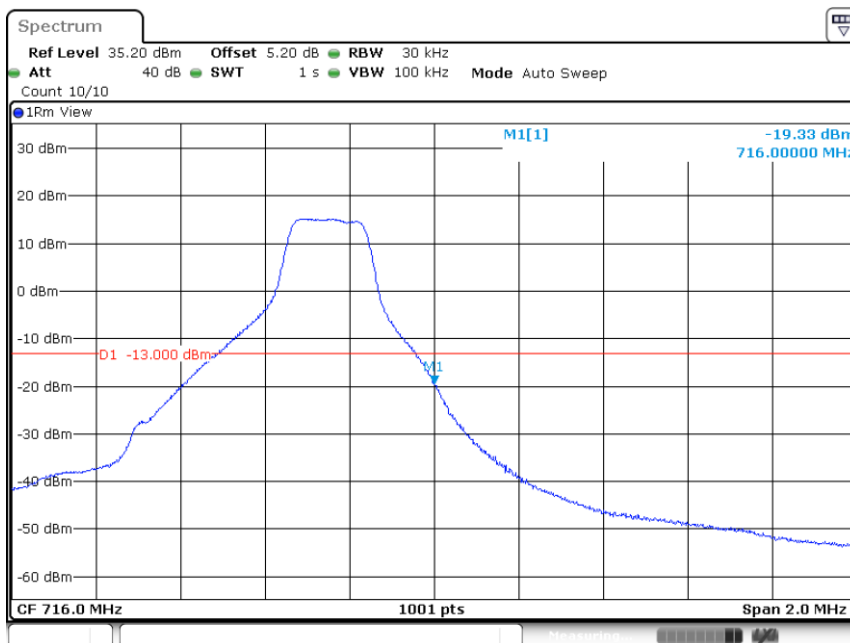


Band12-1.4MHz-16QAM-23017-6RB#0



Date: 4, JAN. 2021 23:00:52

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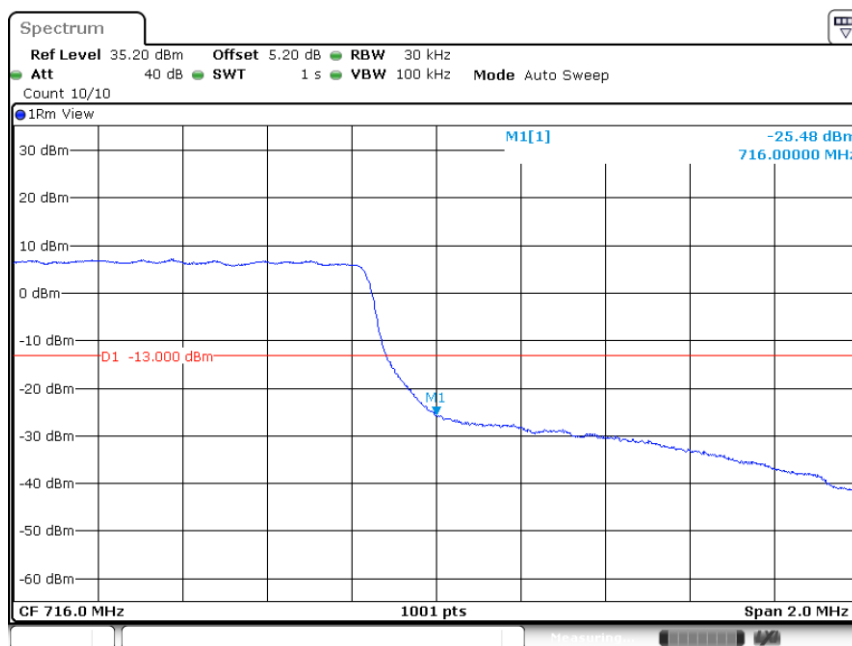


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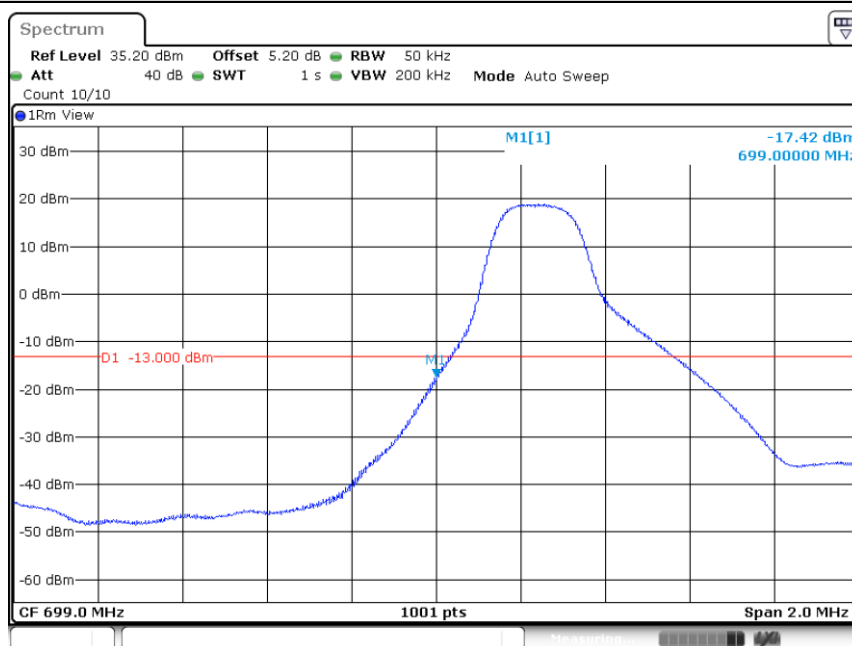


Band12-1.4MHz-16QAM-23173-6RB#0



Date: 4, JAN. 2021 23:02:18

Band12-3MHz-QPSK-23025-1RB#0

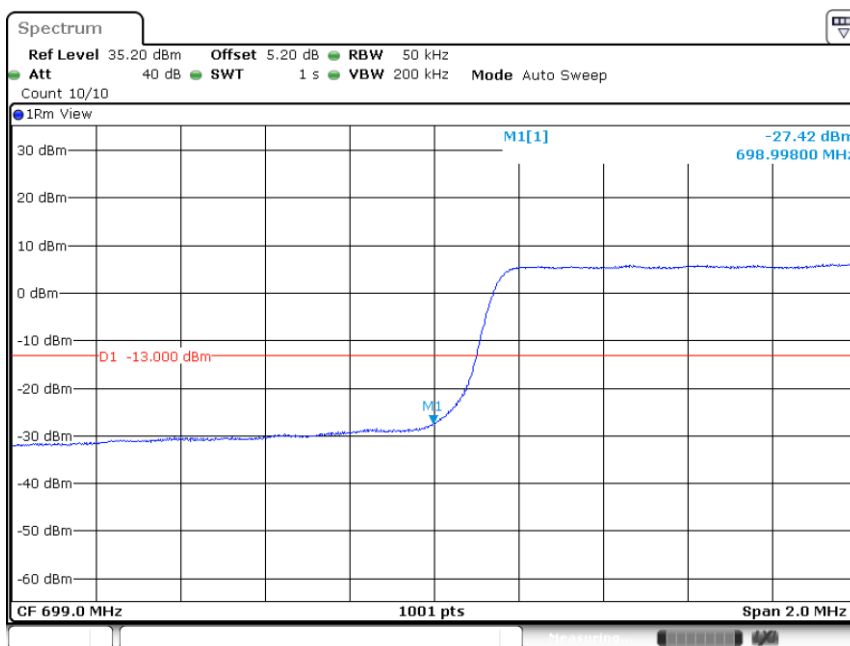


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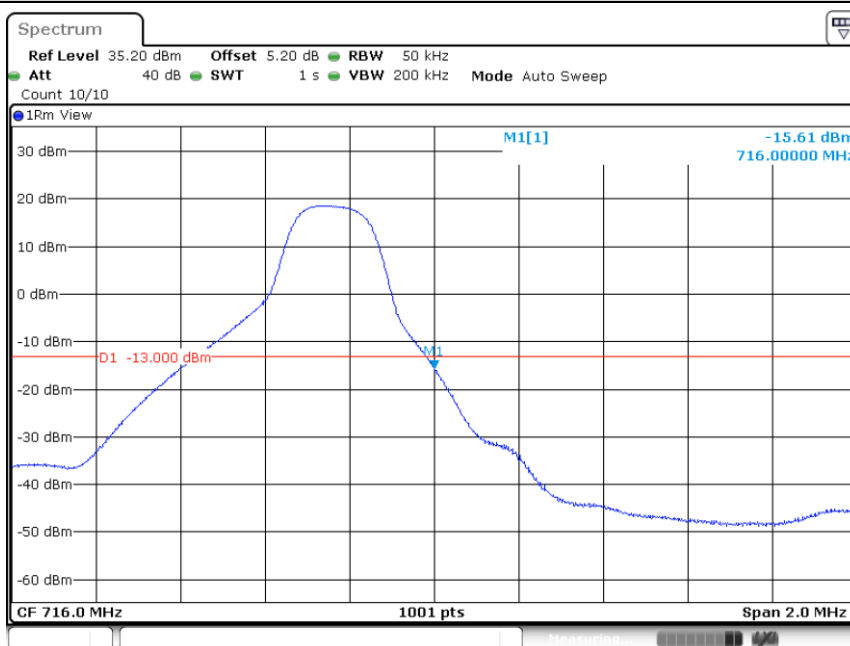


Band12-3MHz-QPSK-23025-15RB#0



Date: 4, JAN. 2021 23:03:26

Band12-3MHz-QPSK-23165-1RB#14



Date: 4, JAN. 2021 23:04:11



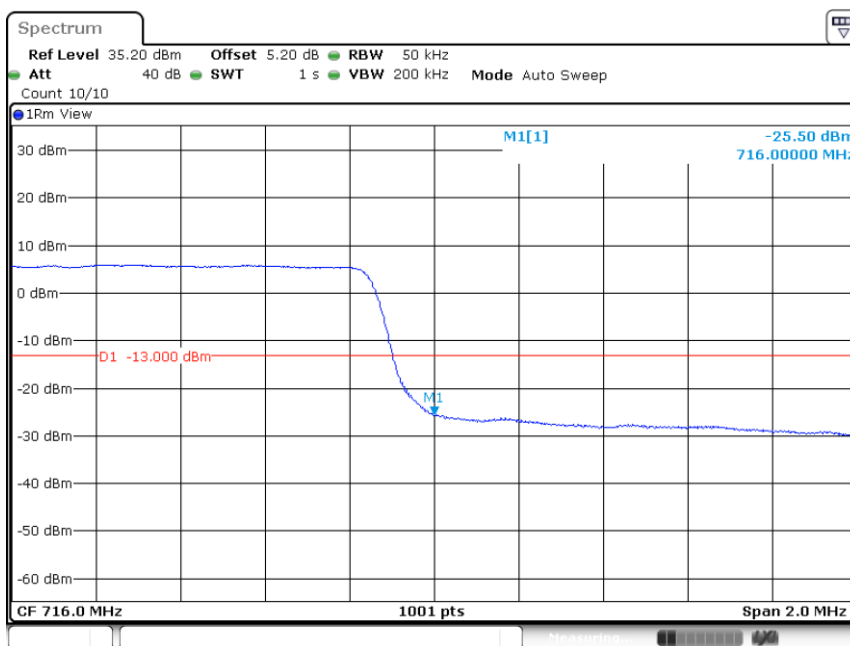
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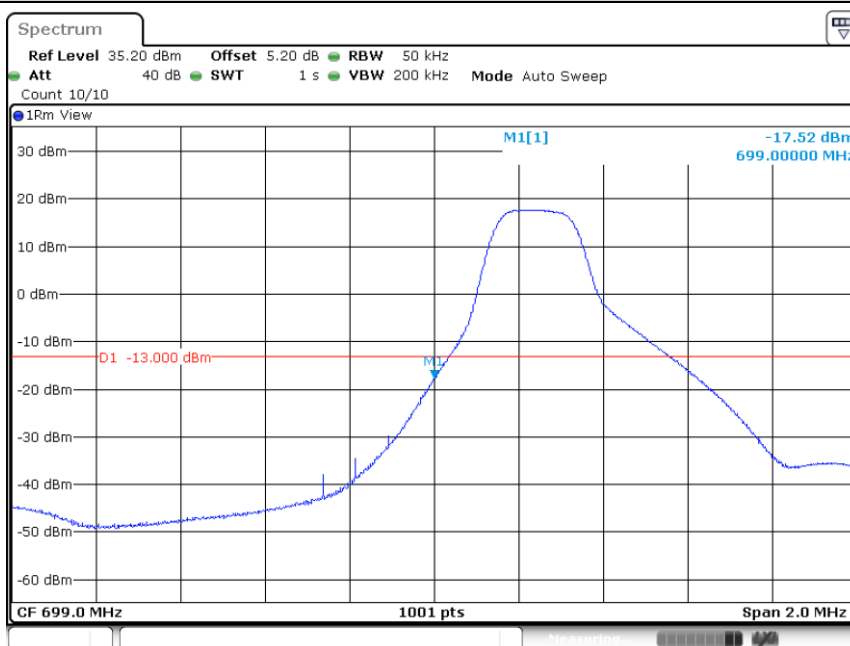


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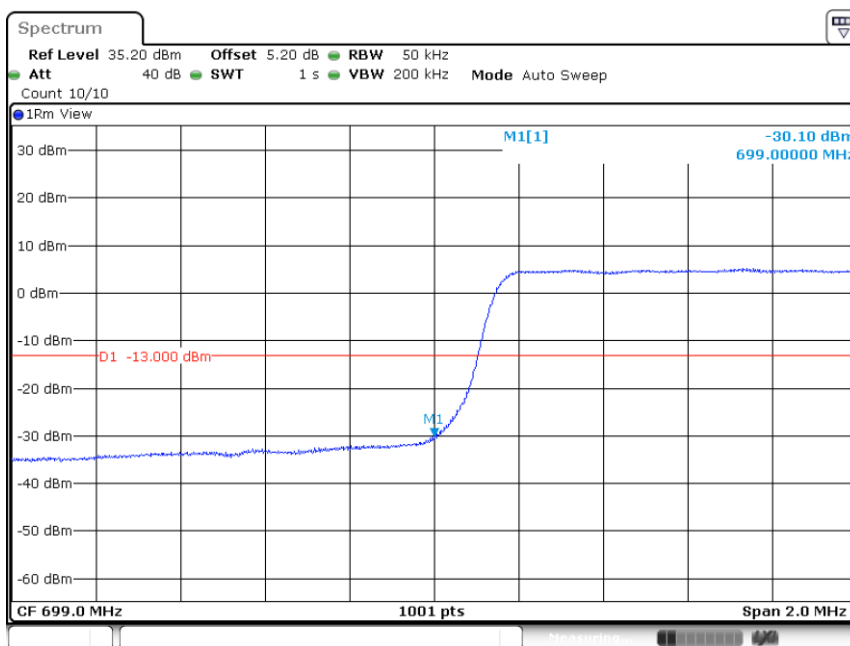


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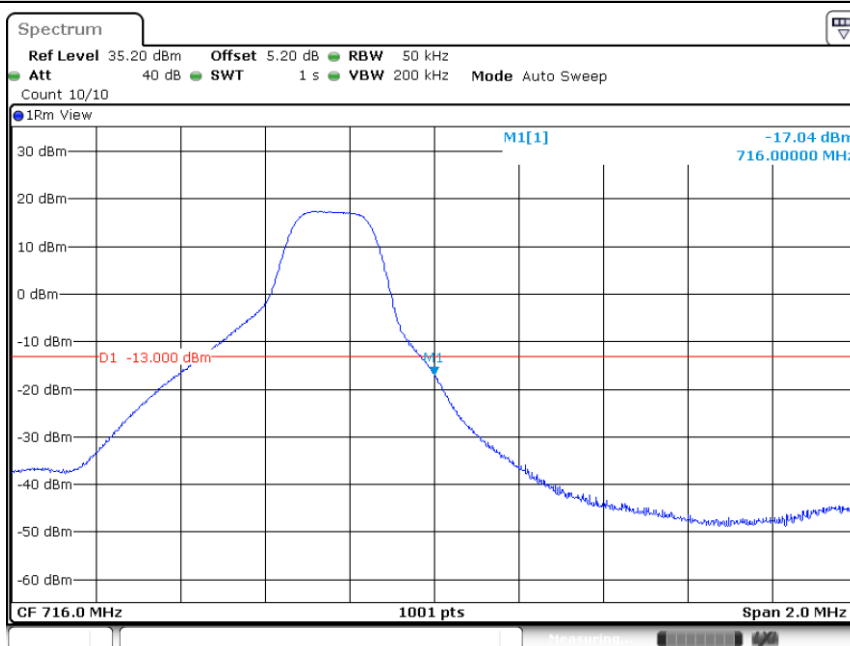


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Date: 4, JAN. 2021 23:03:46

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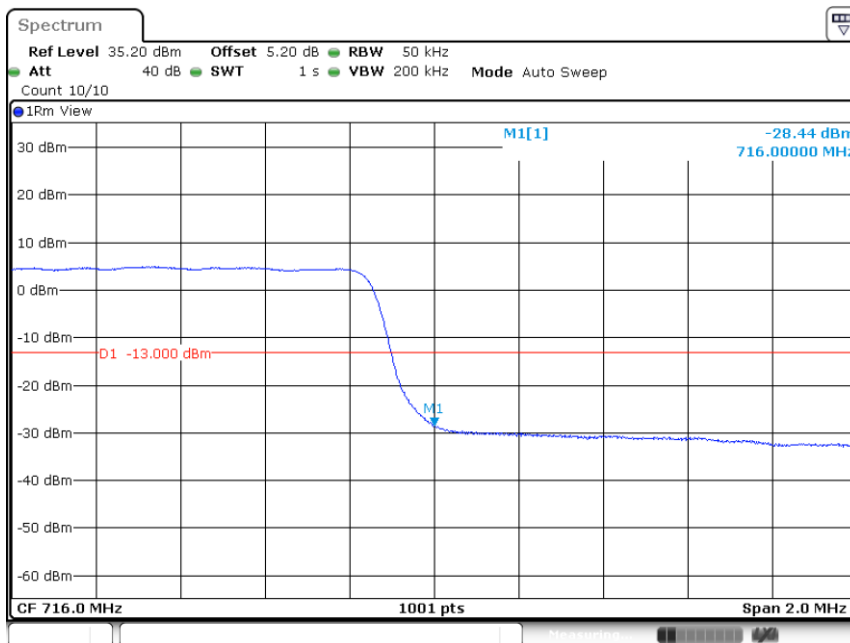


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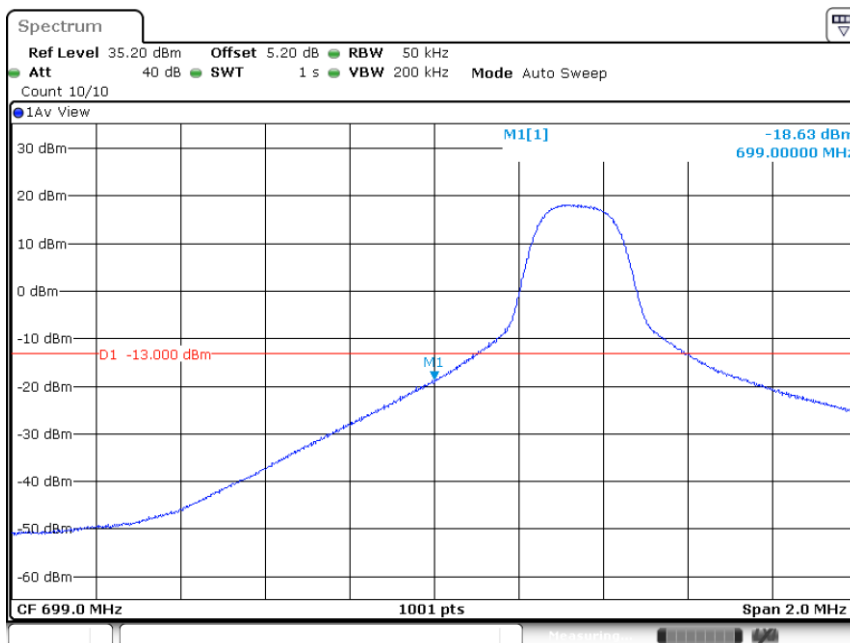


Band12-3MHz-16QAM-23165-15RB#0



Date: 4, JAN. 2021 23:05:13

Band12-5MHz-QPSK-23035-1RB#0



Date: 5, JAN. 2021 09:05:48



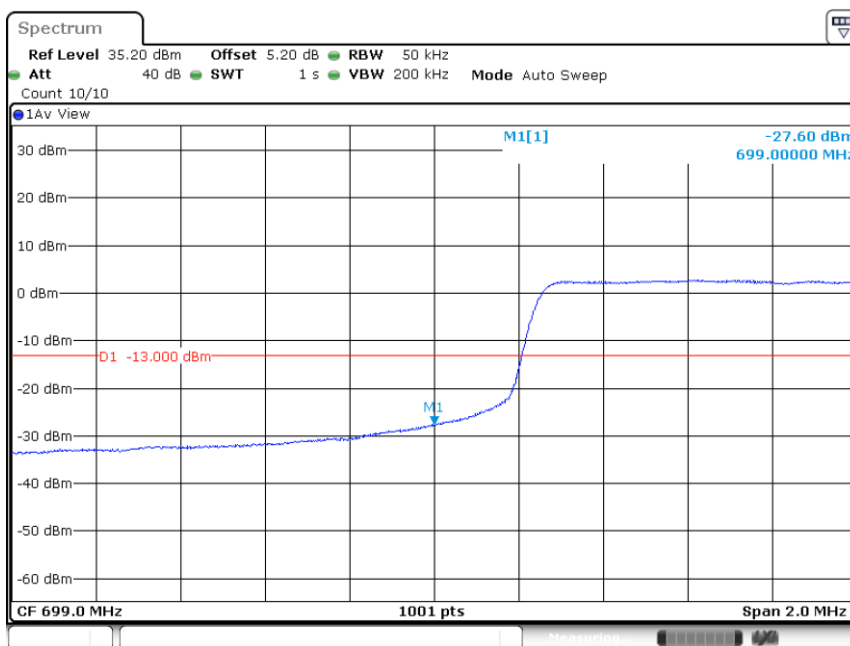
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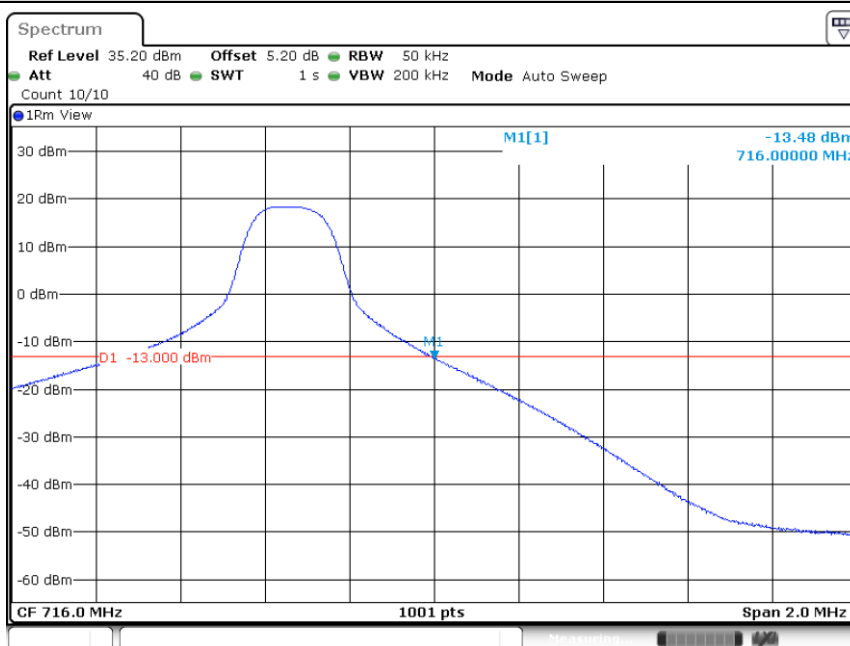


Band12-5MHz-QPSK-23035-25RB#0



Date: 5 JAN.2021 09:06:29

Band12-5MHz-QPSK-23155-1RB#24



Date: 4 JAN.2021 23:07:05



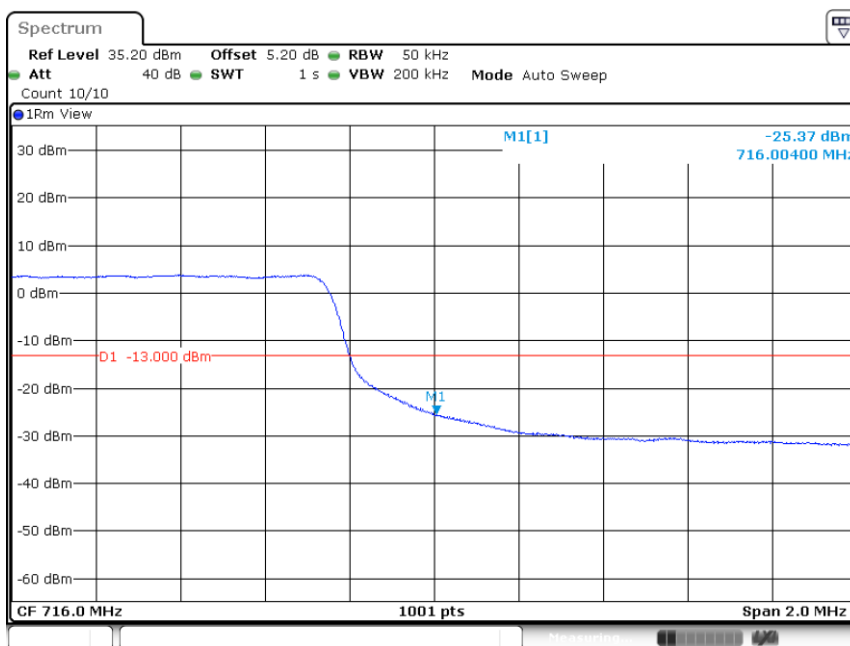
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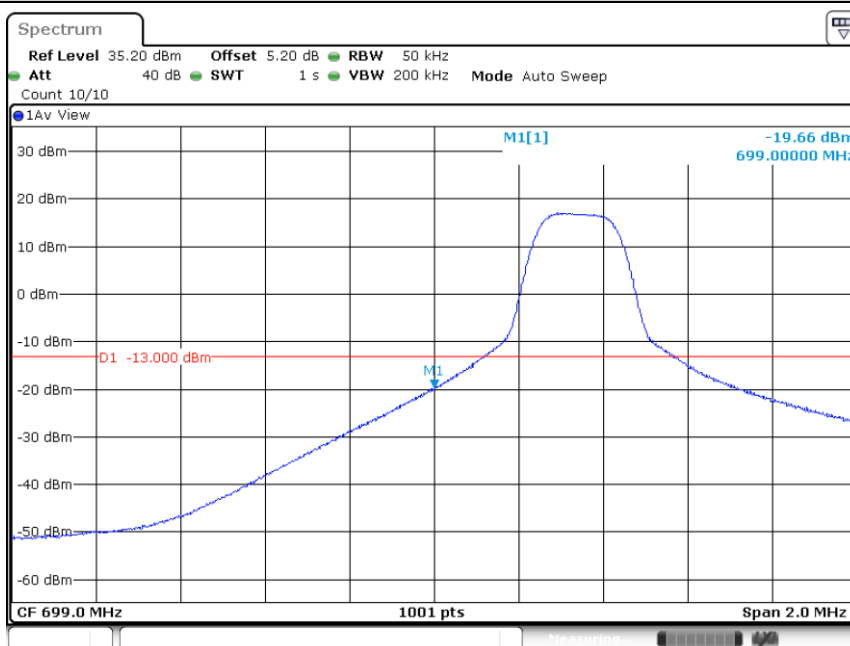


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Date: 4, JAN. 2021 23:07:46

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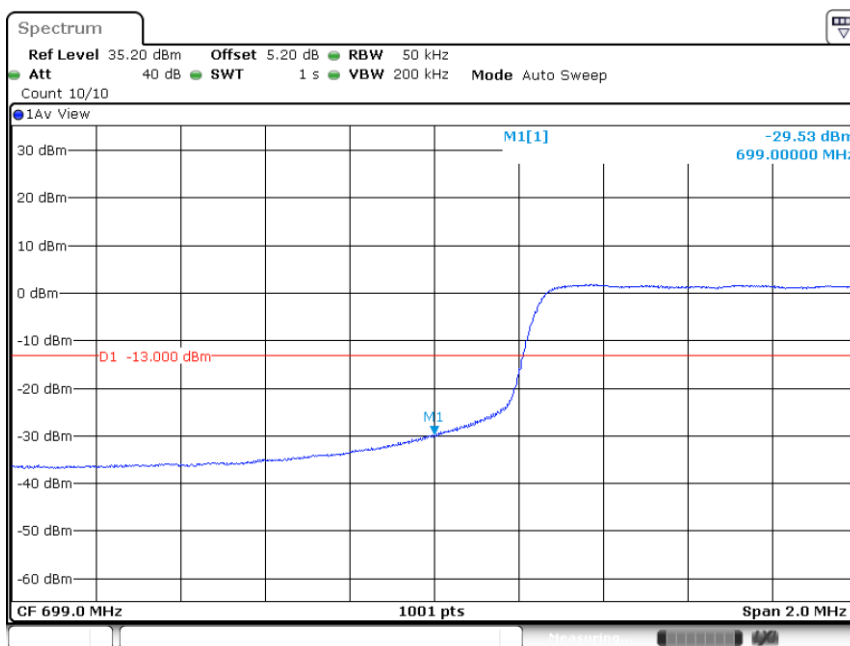


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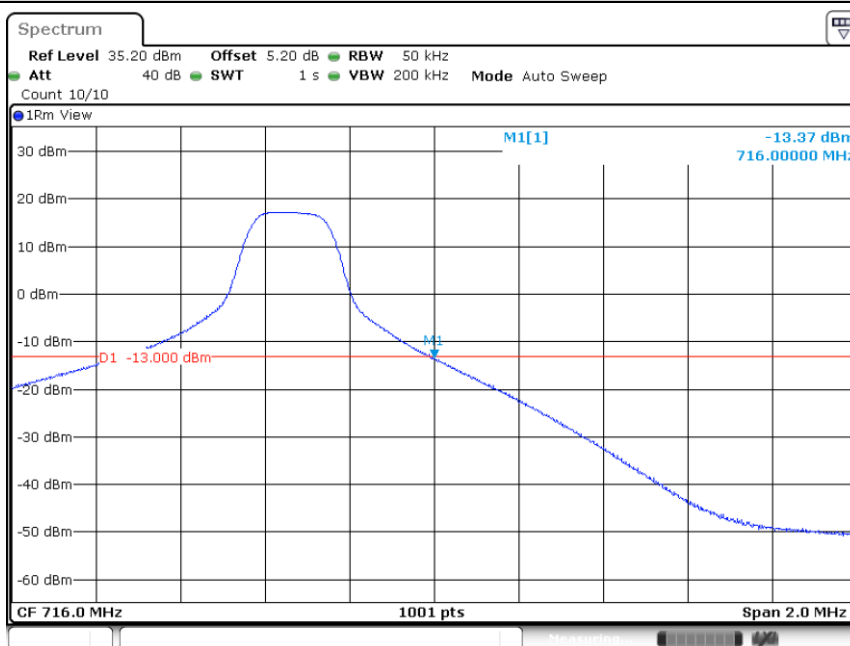


Band12-5MHz-16QAM-23035-25RB#0



Date: 5 JAN.2021 09:06:50

Band12-5MHz-16QAM-23155-1RB#24



Date: 4 JAN.2021 23:07:26



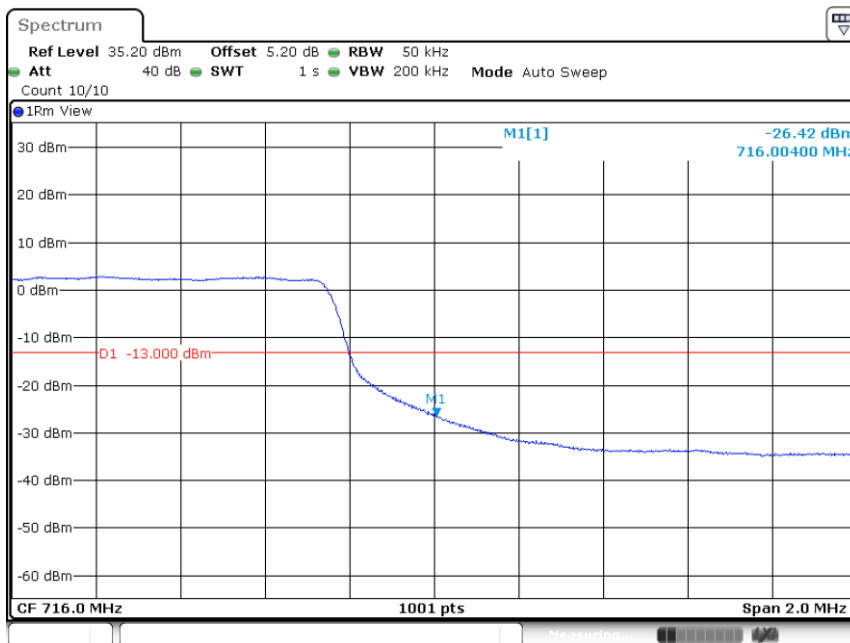
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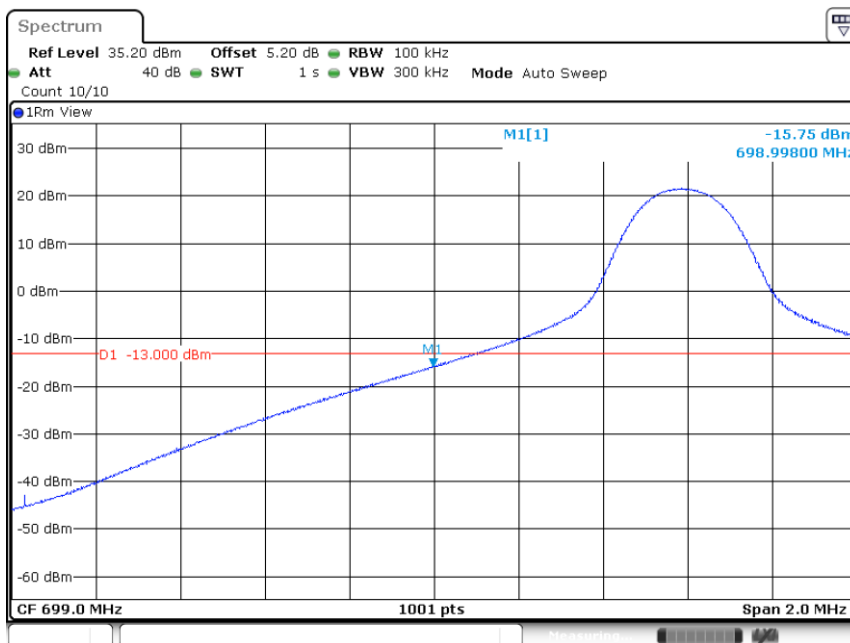


Band12-5MHz-16QAM-23155-25RB#0



Date: 4, JAN. 2021 23:08:07

Band12-10MHz-QPSK-23060-1RB#0



Date: 4, JAN. 2021 23:08:32



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Shenzhen Branch Testing Center, CCC Laboratory

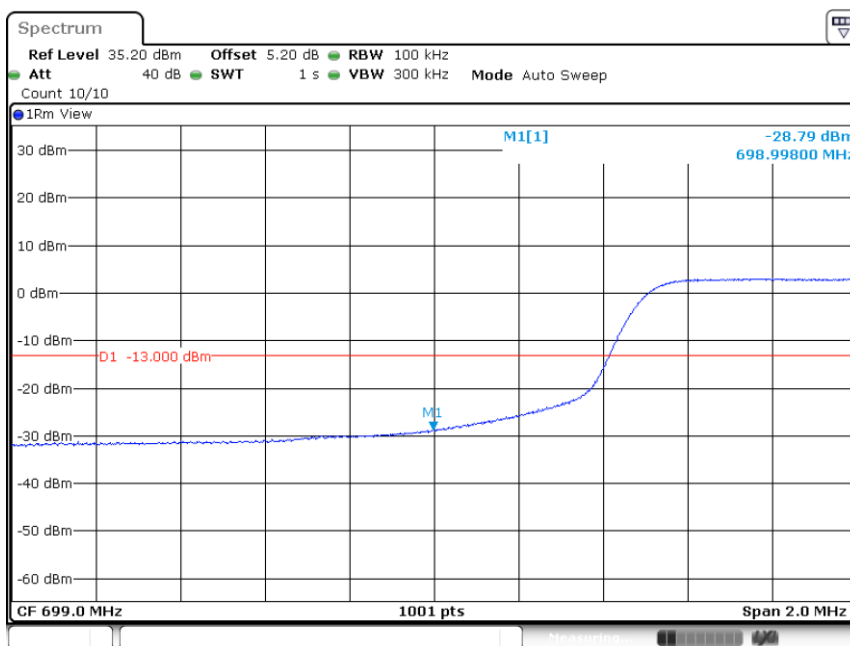
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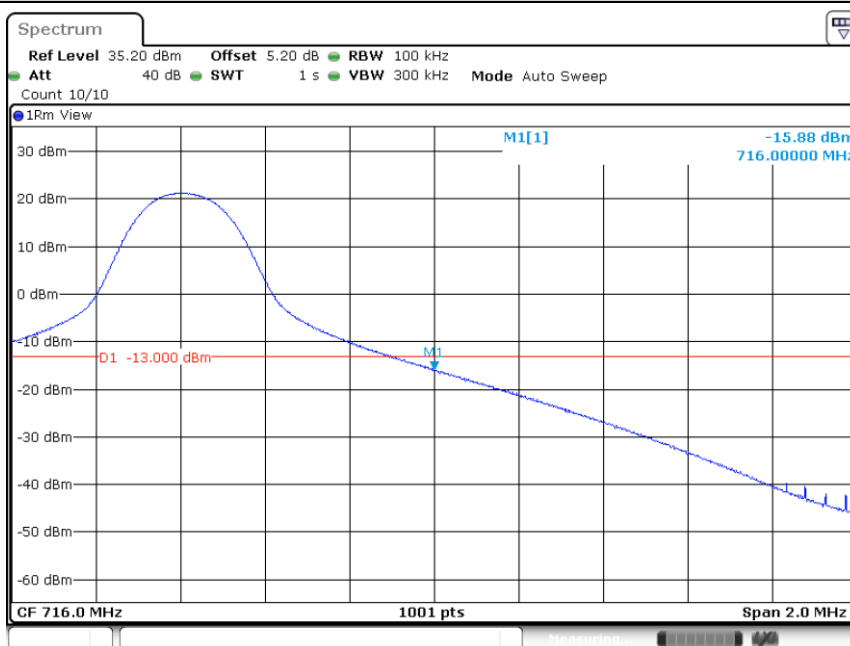


Band12-10MHz-QPSK-23060-50RB#0



Date: 4, JAN. 2021 23:09:13

Band12-10MHz-QPSK-23130-1RB#49



Date: 4, JAN. 2021 23:09:59



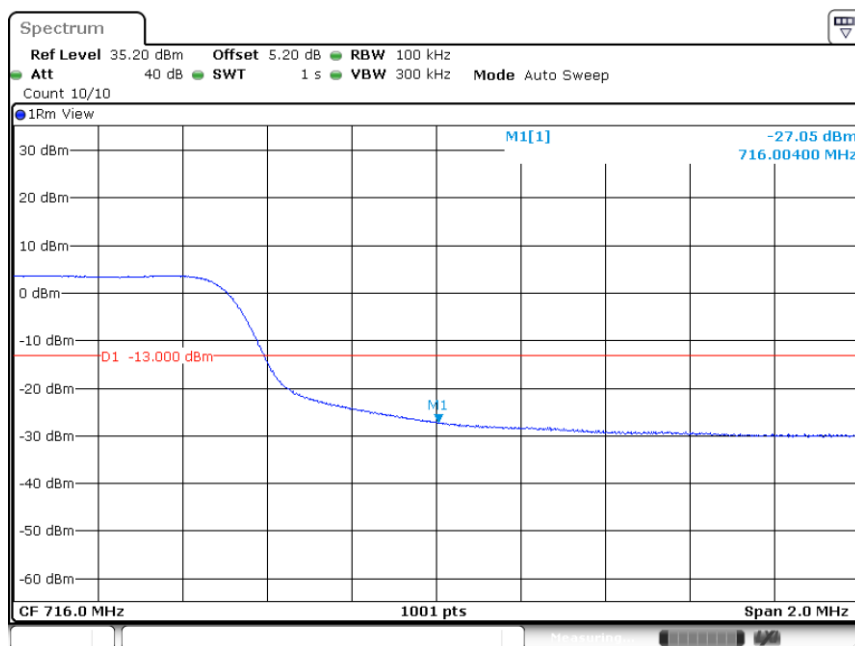
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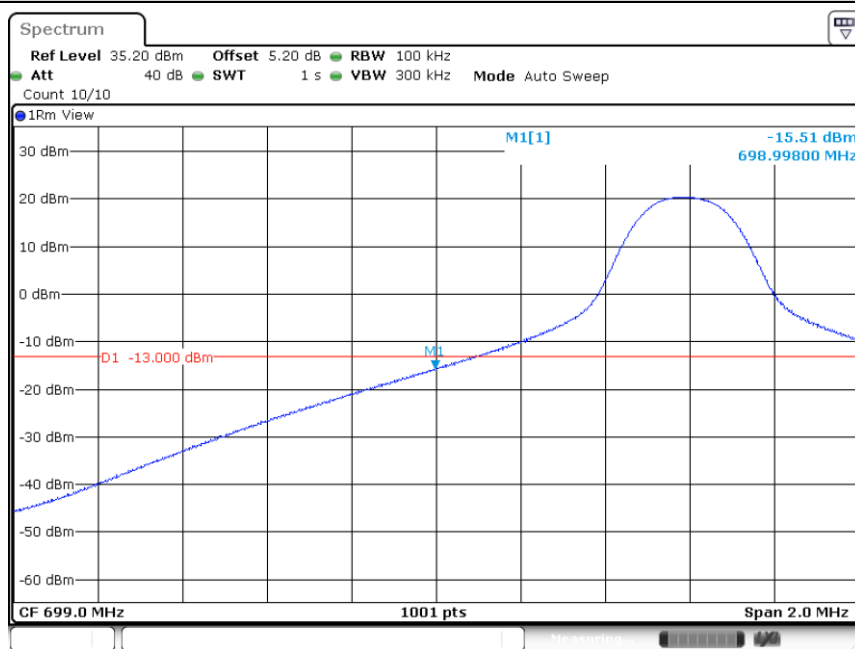
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Band12-10MHz-QPSK-23130-50RB#0



Date: 4.JAN.2021 23:10:40

Band12-10MHz-16QAM-23060-1RB#0



Date: 4.JAN.2021 23:08:53



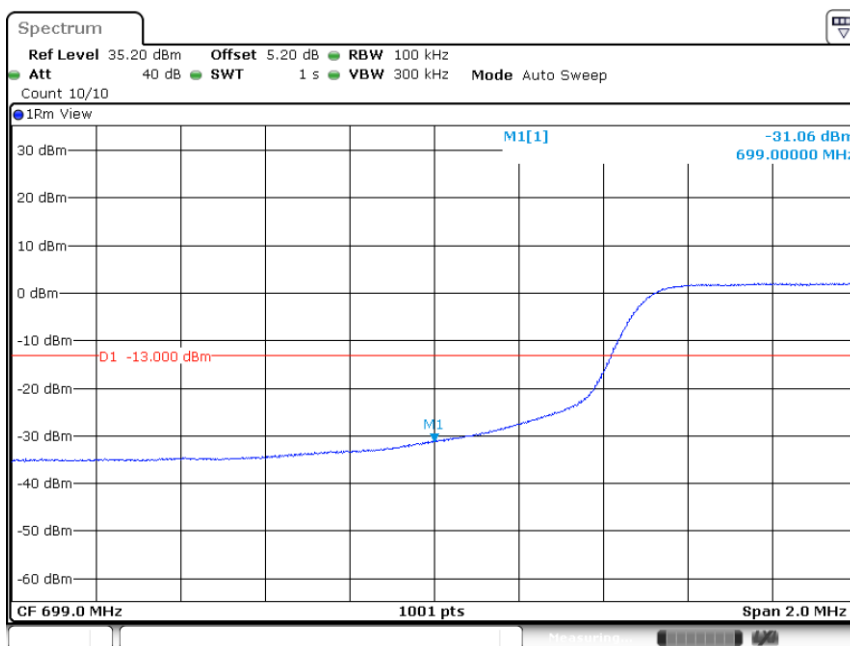
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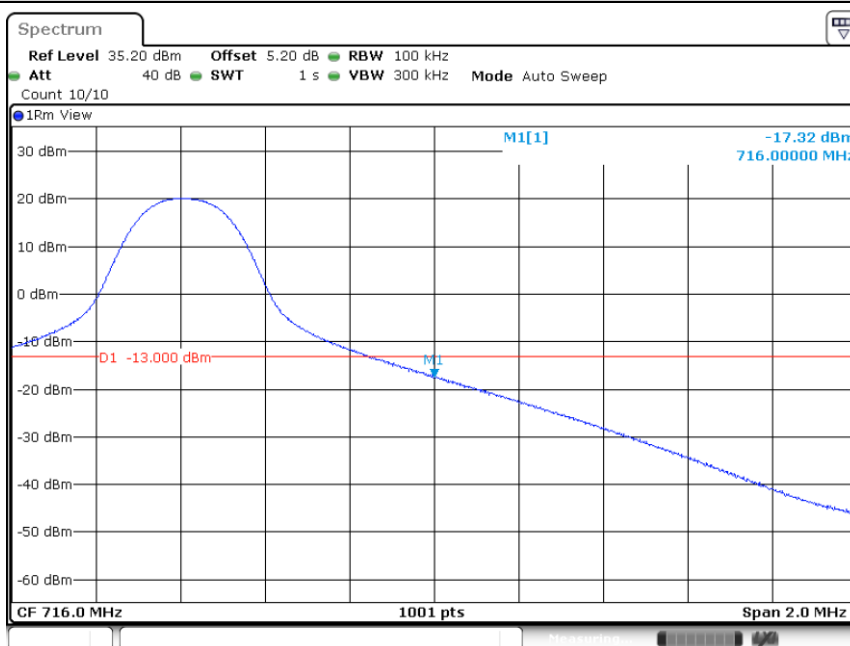


Band12-10MHz-16QAM-23060-50RB#0



Date: 4, JAN. 2021 23:09:34

Band12-10MHz-16QAM-23130-1RB#49



Date: 4, JAN. 2021 23:10:20



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (23060) Calibration Laboratory

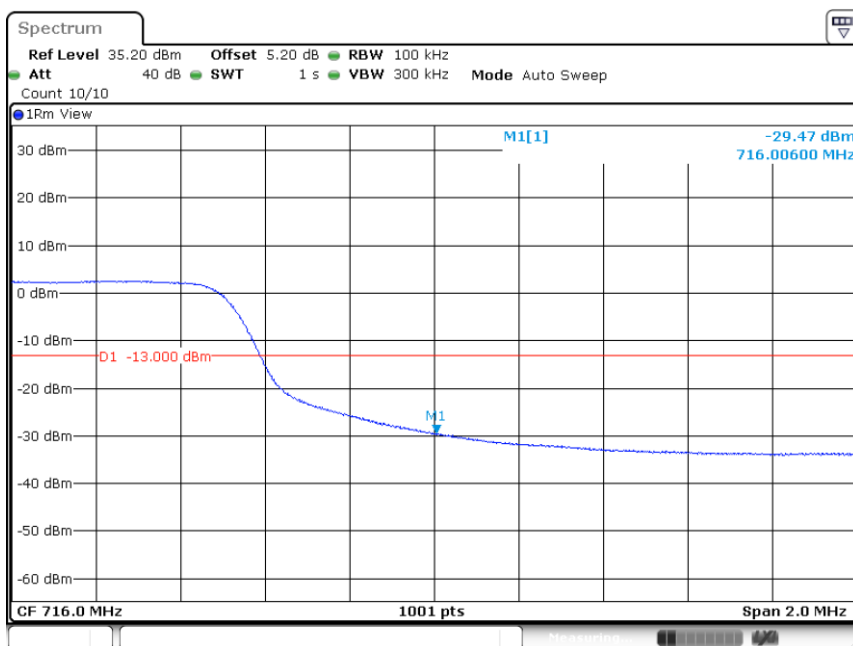
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Band12-10MHz-16QAM-23130-50RB#0



Date: 4 JAN.2021 23:11:01



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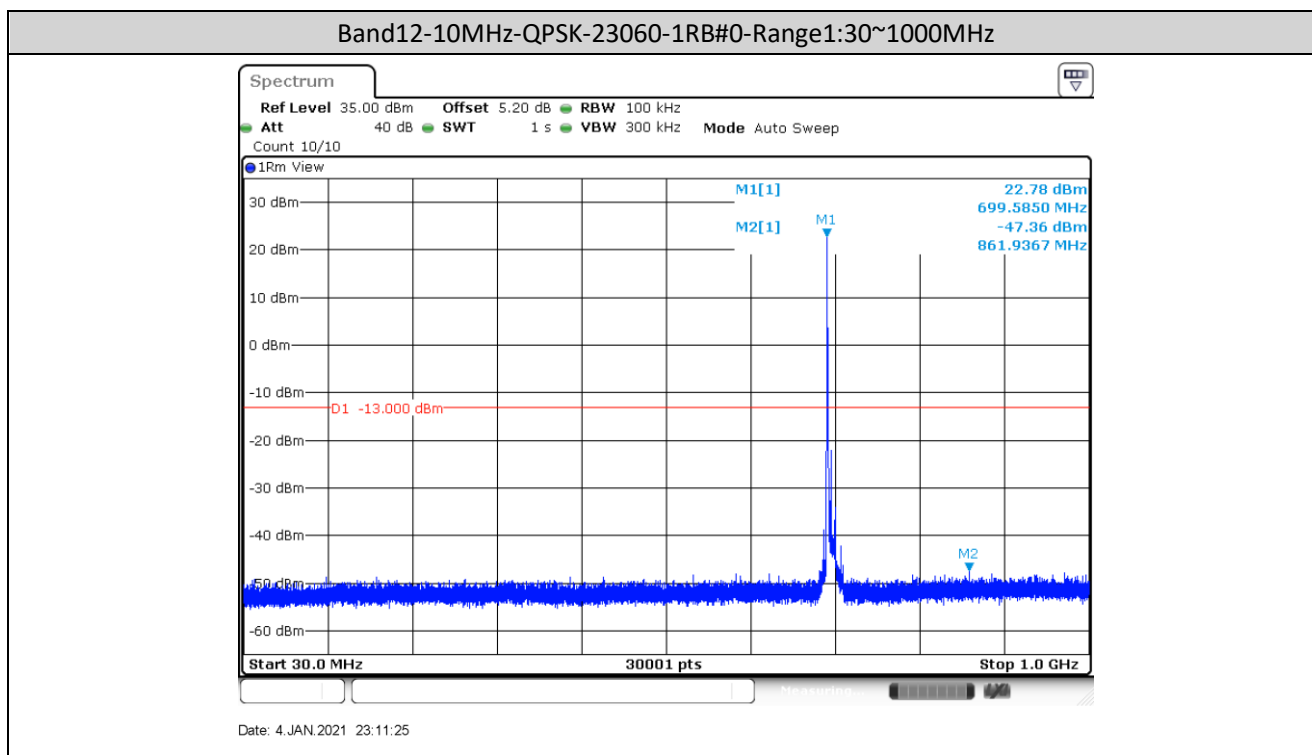
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6. Spurious Emission at Antenna Terminal

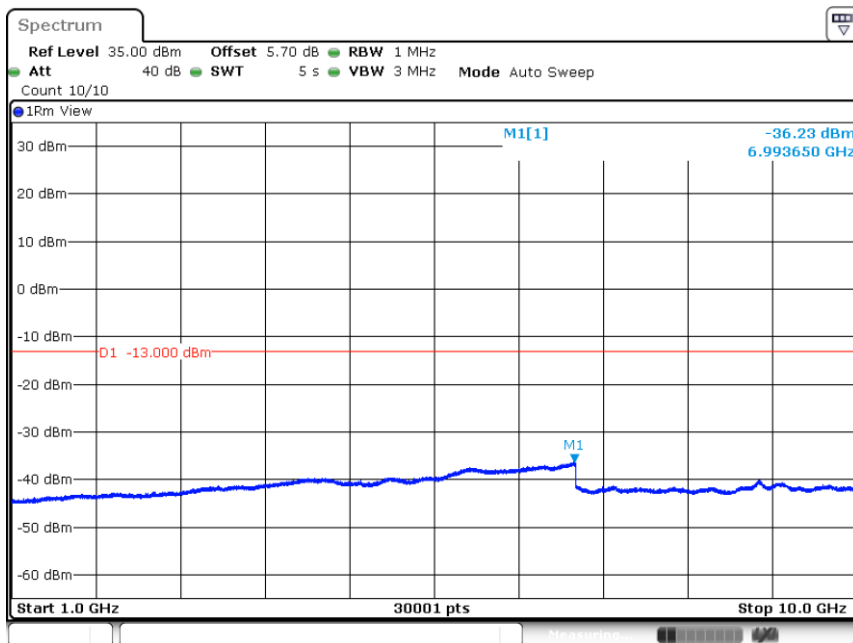
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

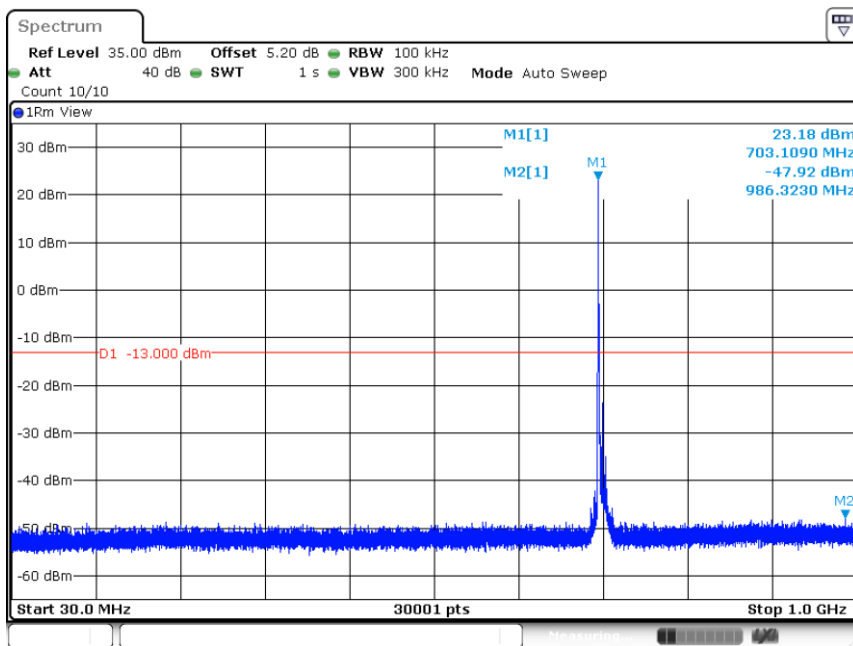


Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 23:12:33

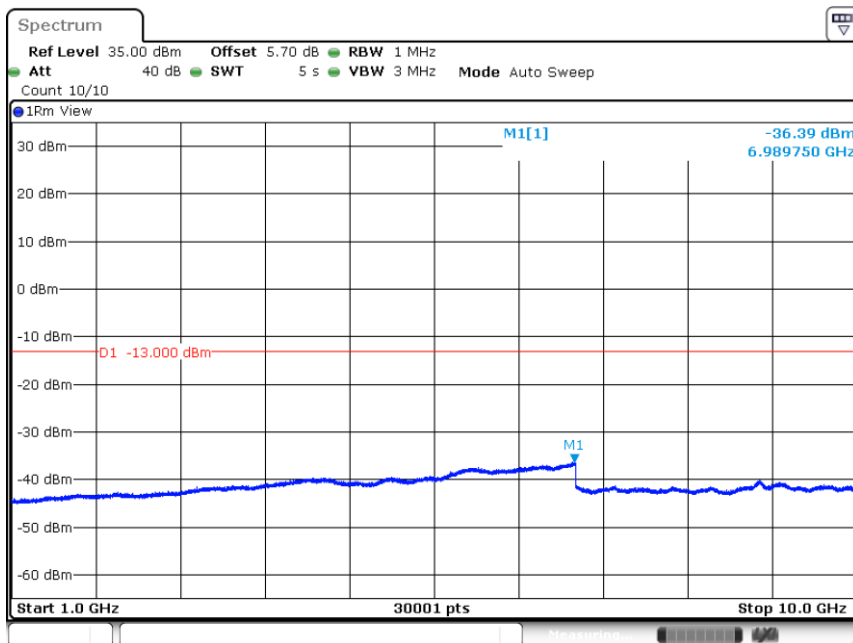
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 23:14:19

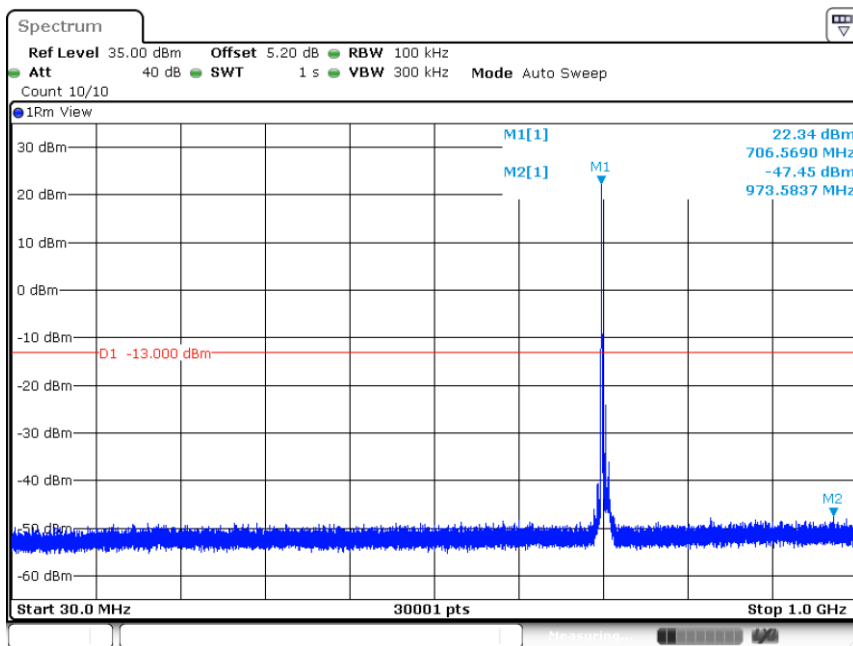


Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 23:15:27

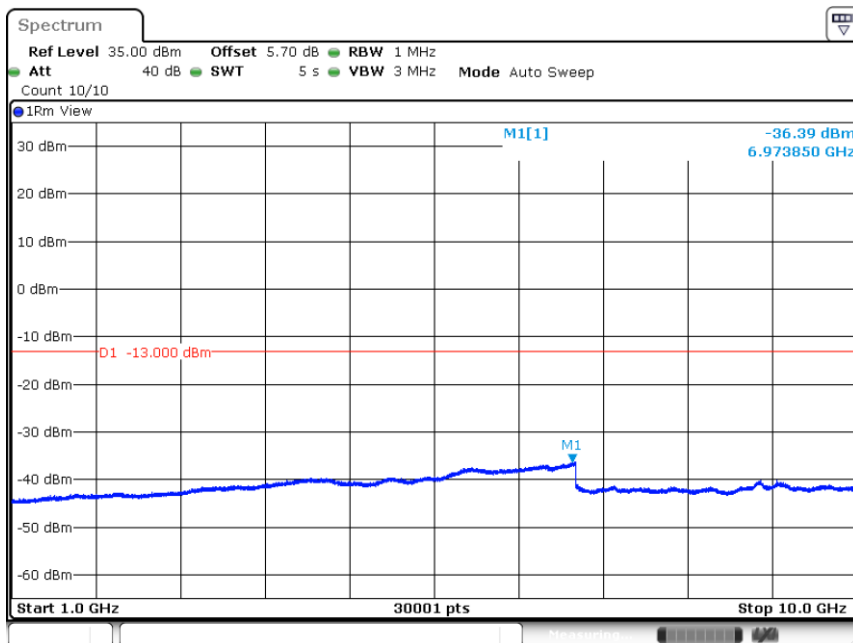
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 23:17:13

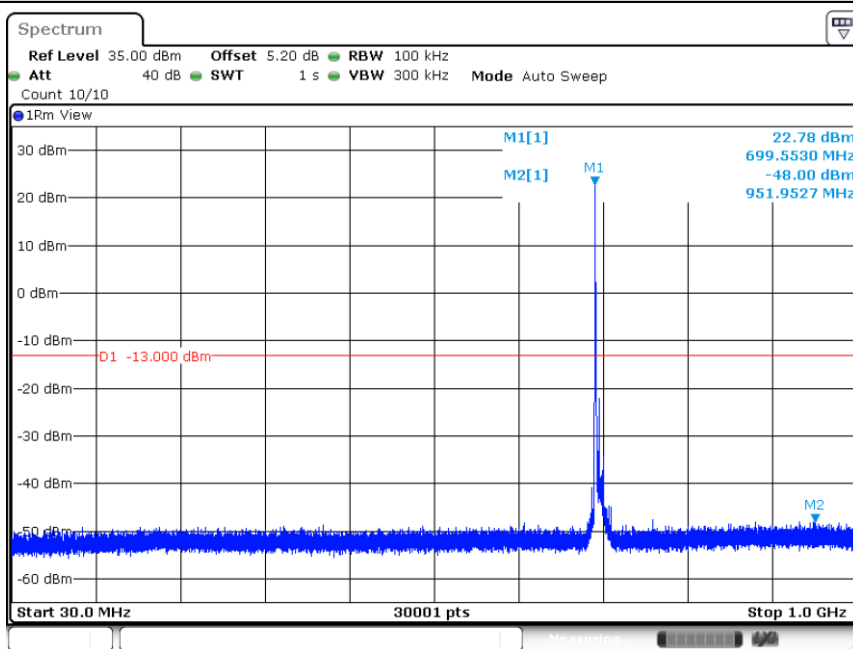


Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 23:18:21

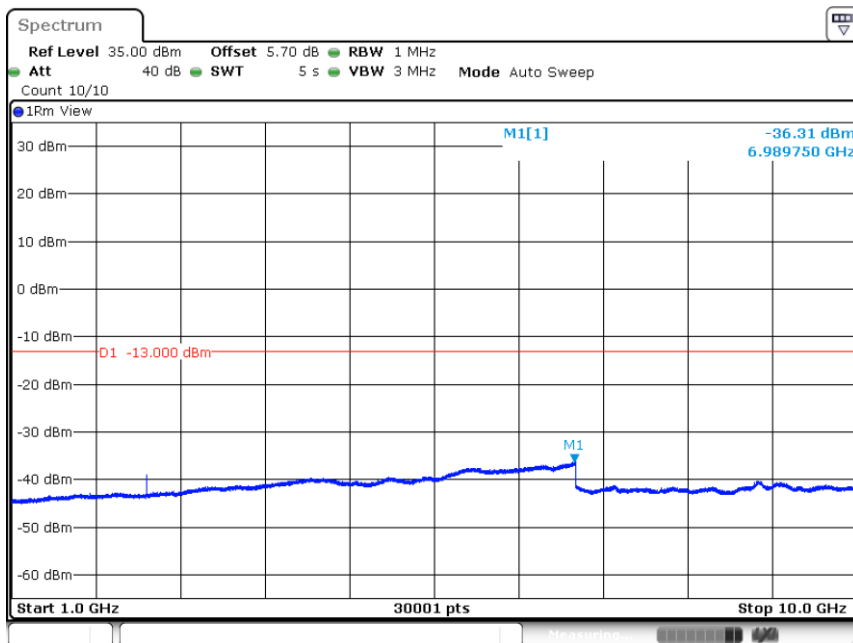
Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 23:12:52

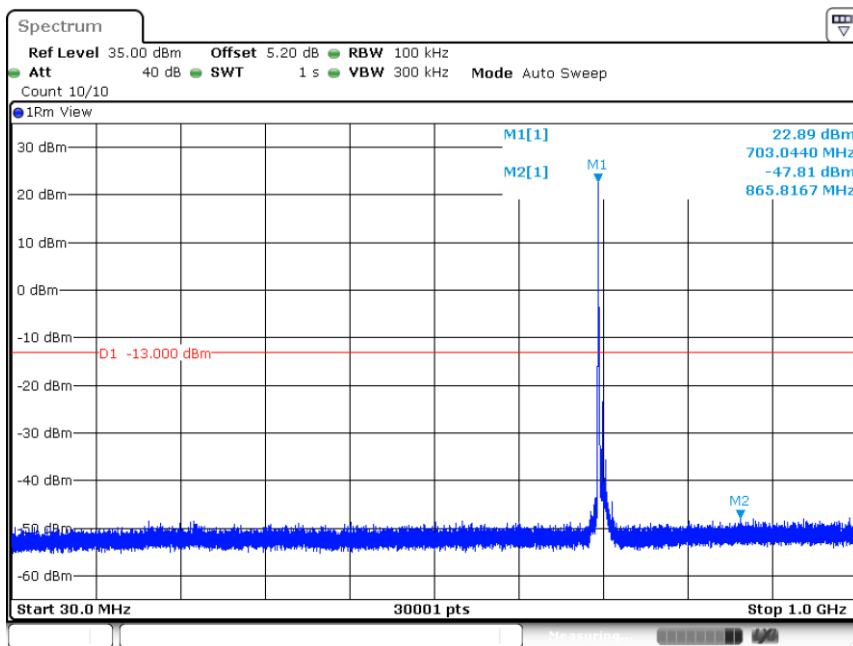


Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 23:13:59

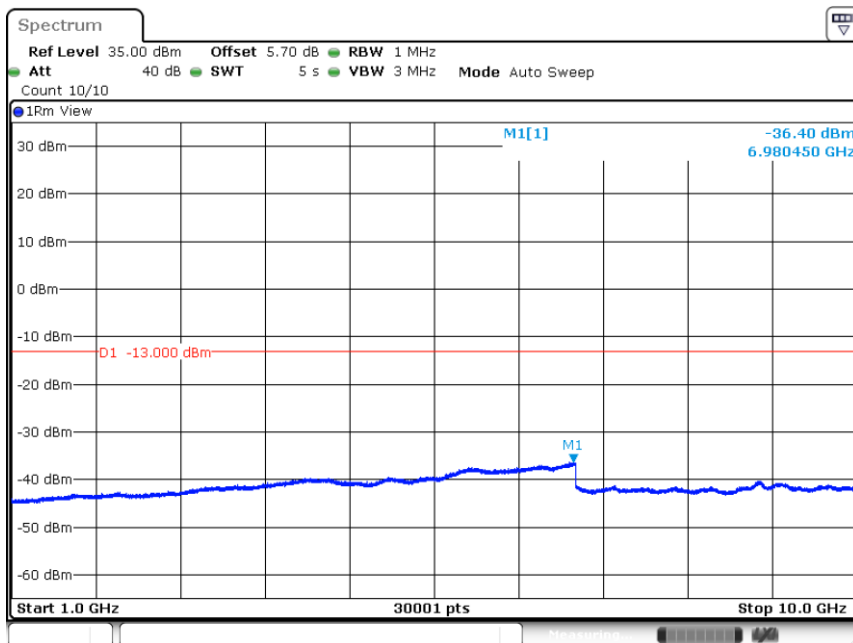
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Date: 4, JAN. 2021 23:15:46

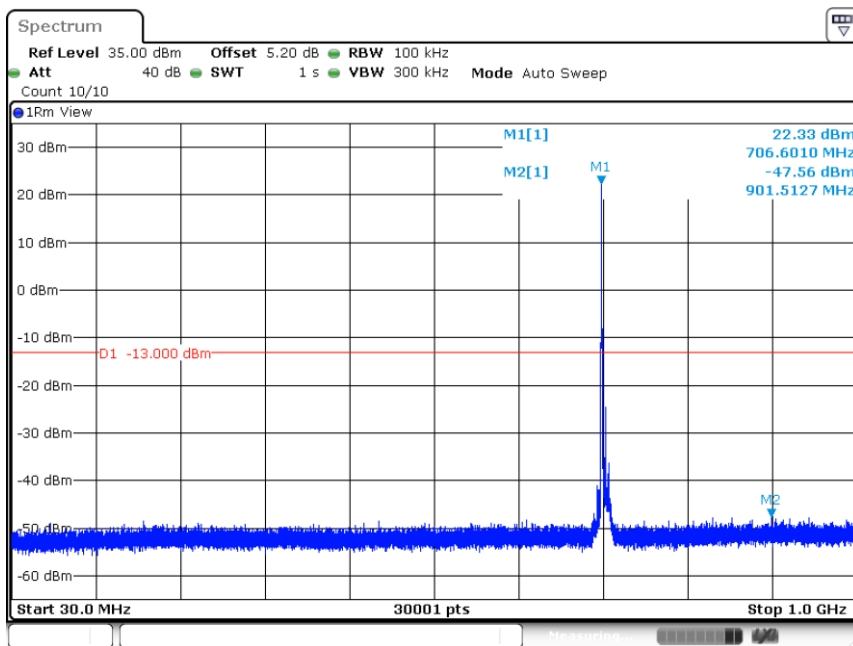


Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 4, JAN. 2021 23:16:54

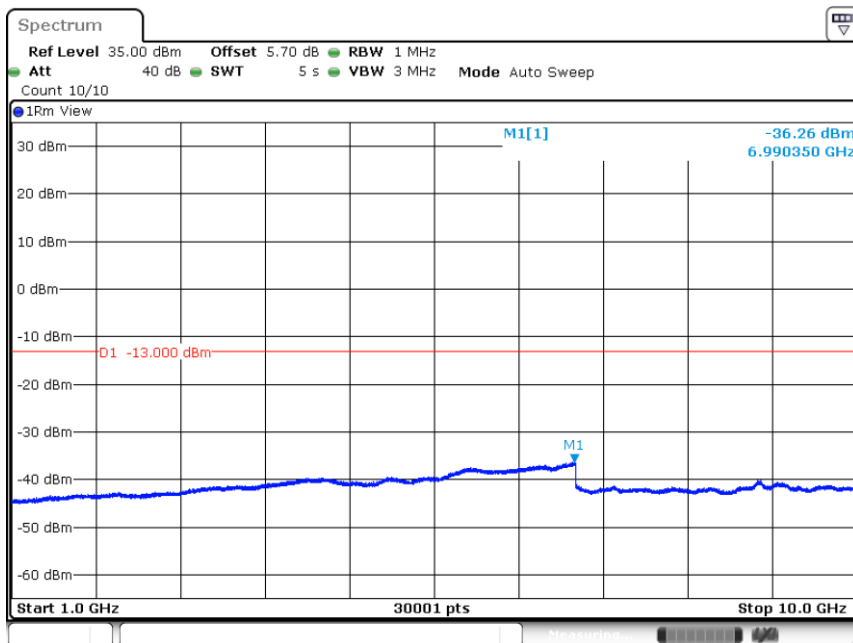
Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



Date: 4, JAN. 2021 23:18:40



Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



Date: 4 JAN.2021 23:19:48



7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_12_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	43.3382	-63.51	-13.00	50.51	178	342	Horizontal
2	238.7544	-67.71	-13.00	54.71	165	214	Horizontal
3	598.8364	-63.01	-13.00	50.01	189	33	Horizontal
4	1399.2799	-50.46	-13.00	37.46	165	184	Horizontal
5	2698.3397	-54.65	-13.00	41.65	188	127	Horizontal
6	9270.8508	-53.79	-13.00	40.79	196	186	Horizontal



7.2. Test Band = LTE_12_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	51.3411	-71.06	-13.00	58.06	271	250	Vertical
2	110.1745	-64.18	-13.00	51.18	256	332	Vertical
3	467.5889	-65.86	-13.00	52.86	284	176	Vertical
4	1398.8798	-52.95	-13.00	39.95	226	0	Vertical
5	2710.3421	-55.97	-13.00	42.97	284	260	Vertical
6	9300.2520	-53.64	-13.00	40.64	229	224	Vertical



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7.3. Test Band = LTE_12_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	44.6477	-62.72	-13.00	49.72	198	70	Horizontal
2	241.4221	-67.83	-13.00	54.83	174	17	Horizontal
3	587.6809	-63.39	-13.00	50.39	165	48	Horizontal
4	1406.0812	-50.96	-13.00	37.96	184	185	Horizontal
5	2700.3401	-54.66	-13.00	41.66	196	350	Horizontal
6	9301.0920	-53.66	-13.00	40.66	178	316	Horizontal



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7.4. Test Band = LTE_12_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	51.1956	-71.31	-13.00	58.31	247	293	Vertical
2	112.7936	-64.22	-13.00	51.22	222	316	Vertical
3	519.5350	-65.60	-13.00	52.60	241	293	Vertical
4	1406.0812	-53.41	-13.00	40.41	258	130	Vertical
5	2701.9404	-55.99	-13.00	42.99	263	282	Vertical
6	7377.9751	-56.62	-13.00	43.62	269	199	Vertical



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7.5. Test Band = LTE_12_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	41.2041	-63.90	-13.00	50.90	187	307	Horizontal
2	235.4078	-68.12	-13.00	55.12	165	283	Horizontal
3	582.0061	-63.40	-13.00	50.40	194	307	Horizontal
4	1412.8826	-52.07	-13.00	39.07	175	265	Horizontal
5	2703.1406	-54.75	-13.00	41.75	162	21	Horizontal
6	9536.5815	-53.75	-13.00	40.75	189	132	Horizontal



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7.6. Test Band = LTE_12_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	109.2045	-64.24	-13.00	51.24	271	235	Vertical
2	575.3128	-63.00	-13.00	50.00	256	280	Vertical
3	1412.8826	-53.60	-13.00	40.60	284	149	Vertical
4	2696.3393	-55.99	-13.00	42.99	269	161	Vertical
5	7434.5374	-56.89	-13.00	43.89	274	57	Vertical
6	9543.8618	-53.38	-13.00	40.38	258	213	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
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-5.50	-0.007813	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-5.90	-0.008381	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-4.90	-0.006960	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-4.20	-0.005936	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.00	-0.009894	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.30	-0.006078	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-2.90	-0.004079	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-5.50	-0.007736	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-3.60	-0.005114	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-6.60	-0.009375	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-6.40	-0.009091	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-10.40	-0.014700	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-10.40	-0.014700	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-6.80	-0.009611	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-7.20	-0.010127	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-4.20	-0.005907	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-4.40	-0.006188	±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
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-8.40	-0.011932	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-8.10	-0.011506	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-8.20	-0.011648	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-8.50	-0.012074	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-10.70	-0.015199	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-5.40	-0.007670	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-2.50	-0.003551	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	1.90	0.002699	±2.5	PASS



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Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-4.00	-0.005654	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.10	-0.005795	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-4.90	-0.006926	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-8.10	-0.011449	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-8.80	-0.012438	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-4.60	-0.006502	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.90	-0.005512	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-5.30	-0.007491	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-9.40	-0.013221	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-8.90	-0.012518	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-6.30	-0.008861	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-6.10	-0.008579	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-6.90	-0.009705	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-7.10	-0.009986	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-4.10	-0.005767	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-3.50	-0.004923	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-7.50	-0.010653	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-7.60	-0.010795	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-4.90	-0.006960	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-4.70	-0.006676	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-7.10	-0.010085	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-7.90	-0.011222	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-4.10	-0.005824	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-5.10	-0.007244	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-5.70	-0.008097	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-5.30	-0.007491	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-3.30	-0.004664	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-9.10	-0.012862	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-6.00	-0.008481	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-6.20	-0.008763	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-10.20	-0.014417	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-4.40	-0.006188	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.60	-0.003657	±2.5	PASS



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Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-5.30	-0.007454	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-1.60	-0.002250	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-5.10	-0.007173	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-7.40	-0.010408	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-4.30	-0.006048	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.60	-0.002250	±2.5	PASS



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