

Appendix D: Test Results of Band 12 for eMTC operation

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APPENDIX D.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	24.02	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	21.90	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	24.05	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	21.93	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	23.68	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	21.81	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	23.46	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	21.90	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	22.93	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	21.93	PASS
Band12	1.4MHz	23173	16QAM	1	5	Low	22.38	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	21.80	PASS
Band12	3MHz	23025	QPSK	1	0	Low	24.12	PASS
Band12	3MHz	23025	QPSK	6	0	Low	21.94	PASS
Band12	3MHz	23095	QPSK	1	0	Low	24.11	PASS
Band12	3MHz	23095	QPSK	6	0	Low	21.89	PASS
Band12	3MHz	23165	QPSK	1	5	High	23.67	PASS
Band12	3MHz	23165	QPSK	6	0	High	21.81	PASS
Band12	3MHz	23025	16QAM	1	0	Low	22.87	PASS
Band12	3MHz	23025	16QAM	6	0	Low	21.93	PASS
Band12	3MHz	23095	16QAM	1	0	Low	22.84	PASS
Band12	3MHz	23095	16QAM	6	0	Low	21.89	PASS
Band12	3MHz	23165	16QAM	1	5	High	22.52	PASS
Band12	3MHz	23165	16QAM	6	0	High	21.80	PASS
Band12	5MHz	23035	QPSK	1	0	Low	24.04	PASS
Band12	5MHz	23035	QPSK	6	0	Low	22.85	PASS
Band12	5MHz	23095	QPSK	1	0	Low	24.00	PASS
Band12	5MHz	23095	QPSK	6	0	Low	22.91	PASS
Band12	5MHz	23155	QPSK	1	5	High	23.66	PASS
Band12	5MHz	23155	QPSK	3	3	High	22.66	PASS
Band12	5MHz	23035	16QAM	1	0	Low	24.09	PASS
Band12	5MHz	23035	16QAM	6	0	Low	22.85	PASS
Band12	5MHz	23095	16QAM	1	0	Low	24.08	PASS
Band12	5MHz	23095	16QAM	6	0	Low	22.91	PASS
Band12	5MHz	23155	16QAM	1	5	High	23.81	PASS
Band12	5MHz	23155	16QAM	3	3	High	22.80	PASS
Band12	10MHz	23060	QPSK	1	0	Low	24.05	PASS
Band12	10MHz	23060	QPSK	5	0	Low	22.89	PASS
Band12	10MHz	23095	QPSK	1	0	Low	24.03	PASS
Band12	10MHz	23095	QPSK	5	0	Low	23.01	PASS

Band12	10MHz	23130	QPSK	1	5	High	23.66	PASS
Band12	10MHz	23130	QPSK	5	1	High	22.76	PASS
Band12	10MHz	23060	16QAM	1	0	Low	24.08	PASS
Band12	10MHz	23060	16QAM	5	0	Low	22.96	PASS
Band12	10MHz	23095	16QAM	1	0	Low	24.09	PASS
Band12	10MHz	23095	16QAM	5	0	Low	22.95	PASS
Band12	10MHz	23130	16QAM	1	5	High	23.78	PASS
Band12	10MHz	23130	16QAM	5	1	High	22.81	PASS

Note: The highest antenna gain permitted including cable loss, must satisfy both EIRP (ERP) limit and RF exposure requirements.

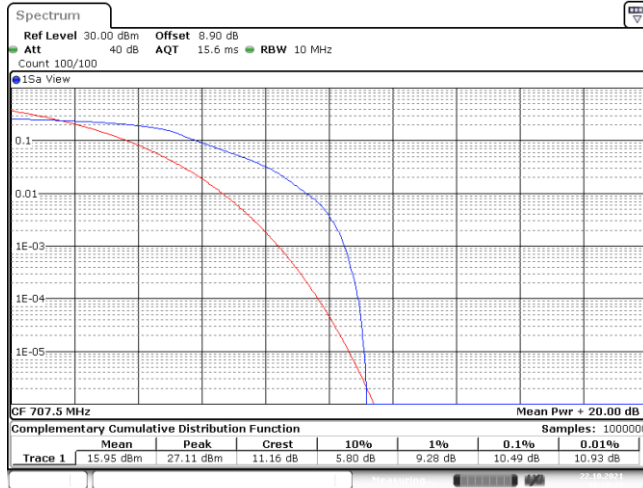
APPENDIX D.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dB)	Limit (dB)	Verdict
Band12	1.4MHz	23095	QPSK	6	0	Low	10.49	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	12.17	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	9.45	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	9.48	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	9.28	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	11.97	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	10.70	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Low	9.04	<=13	PASS

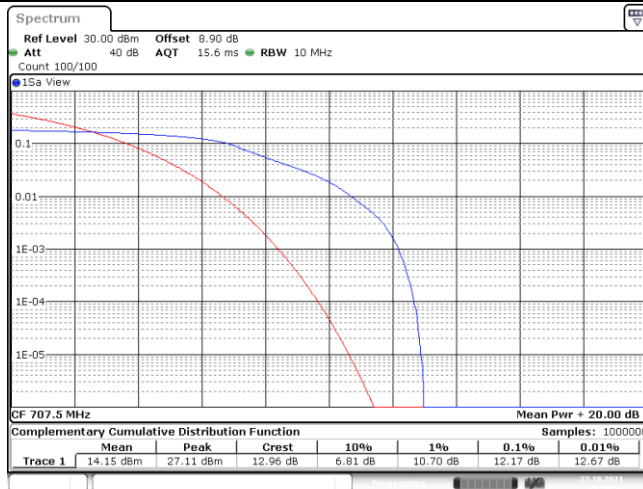
Test Graphs

Band12-1.4MHz-QPSK-23095-6-0-Low-10.49-<=13-PASS



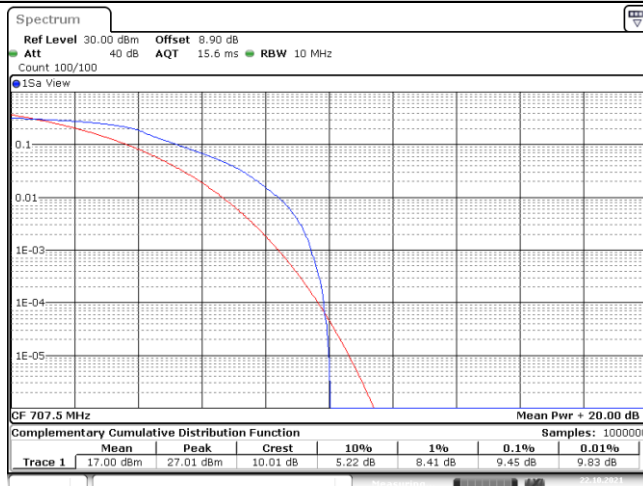
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Band12-1.4MHz-16QAM-23095-6-0-Low-12.17-<=13-PASS



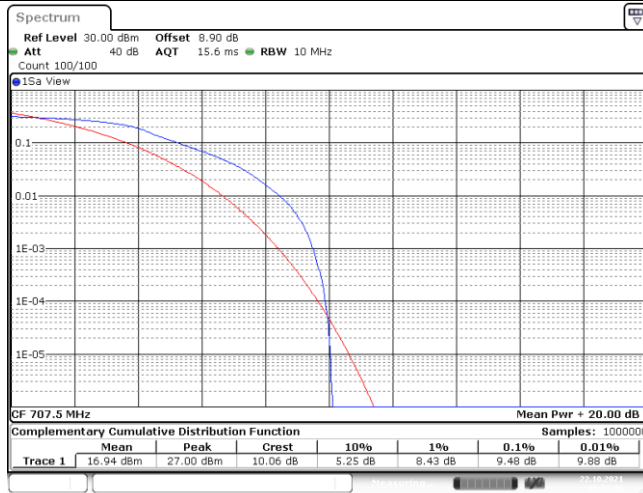
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Band12-3MHz-QPSK-23095-6-0-Low-9.45-<=13-PASS



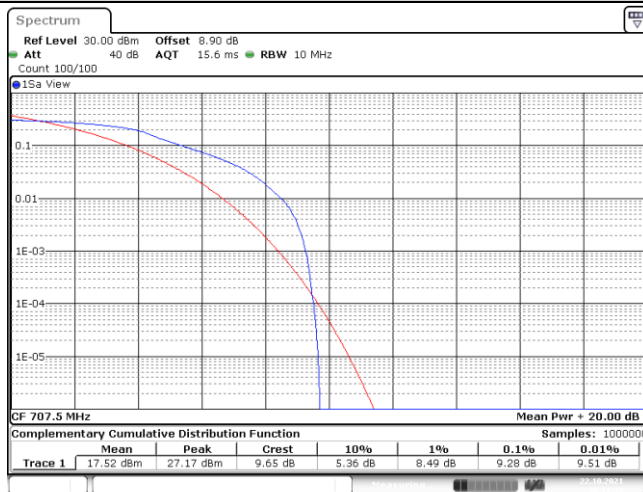
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Band12-3MHz-16QAM-23095-6-0-Low-9.48-<=13-PASS



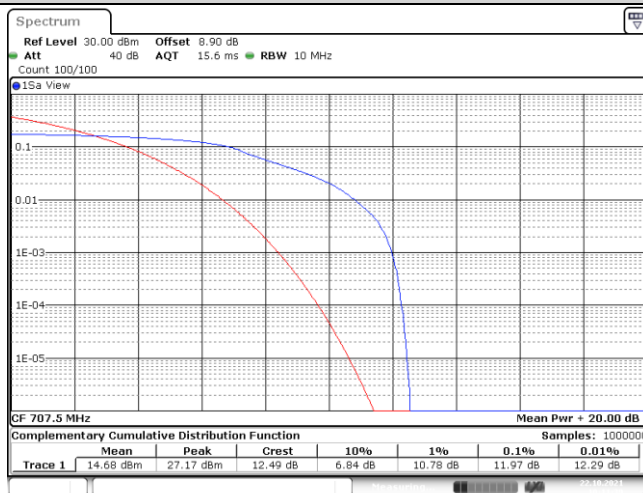
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Band12-5MHz-QPSK-23095-6-0-Low-9.28-<=13-PASS



Date: 22.OCT.2021 10:11:30

Band12-5MHz-16QAM-23095-6-0-Low-11.97-<=13-PASS

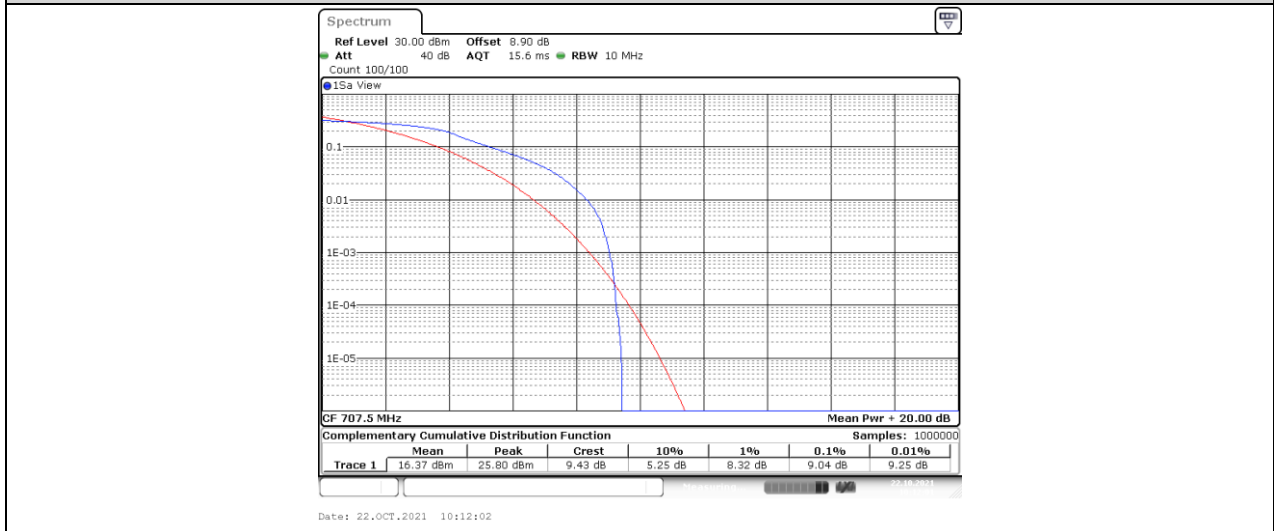


Date: 22.OCT.2021 10:11:39

Band12-10MHz-QPSK-23095-6-0-Low-10.70-<=13-PASS



Band12-10MHz-16QAM-23095-6-0-Low-9.04-<=13-PASS



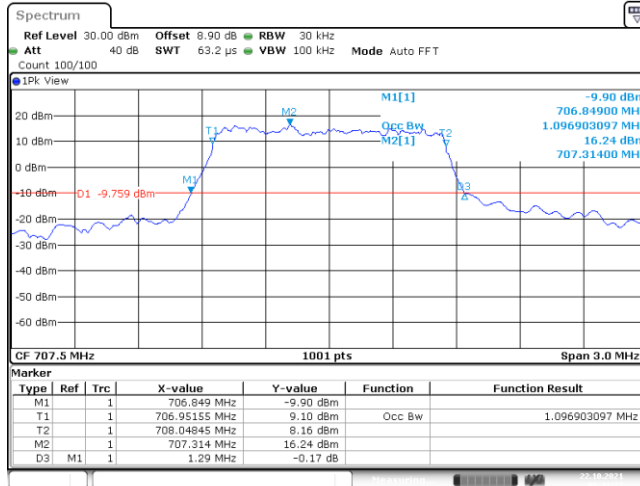
APPENDIX D.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23095	QPSK	6	0	Low	1.097	1.290	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1.094	1.278	PASS
Band12	3MHz	23095	QPSK	6	0	Low	1.097	1.290	PASS
Band12	3MHz	23095	16QAM	6	0	Low	1.097	1.290	PASS
Band12	5MHz	23095	QPSK	6	0	Low	1.109	1.310	PASS
Band12	5MHz	23095	16QAM	6	0	Low	1.109	1.300	PASS
Band12	10MHz	23095	QPSK	6	0	Low	1.099	1.320	PASS
Band12	10MHz	23095	16QAM	6	0	Low	1.099	1.300	PASS

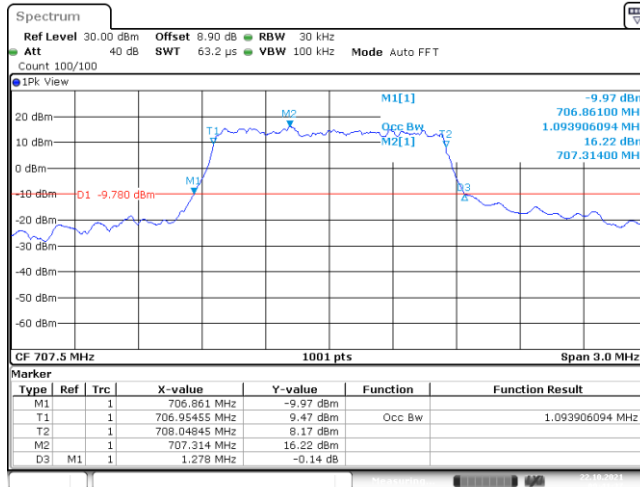
Test Graphs

Band12-1.4MHz-QPSK-23095-6-0-Low-1.097-1.290-PASS



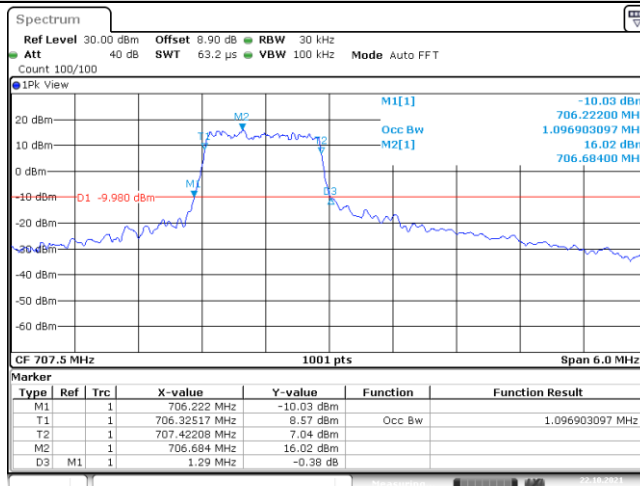
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Band12-1.4MHz-16QAM-23095-6-0-Low-1.094-1.278-PASS



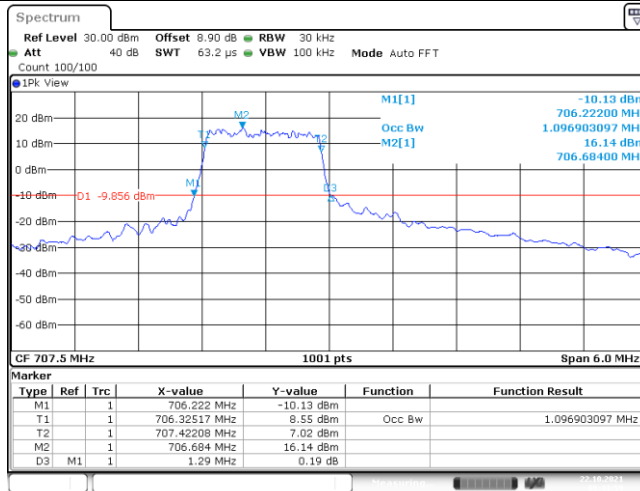
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Band12-3MHz-QPSK-23095-6-0-Low-1.097-1.290-PASS



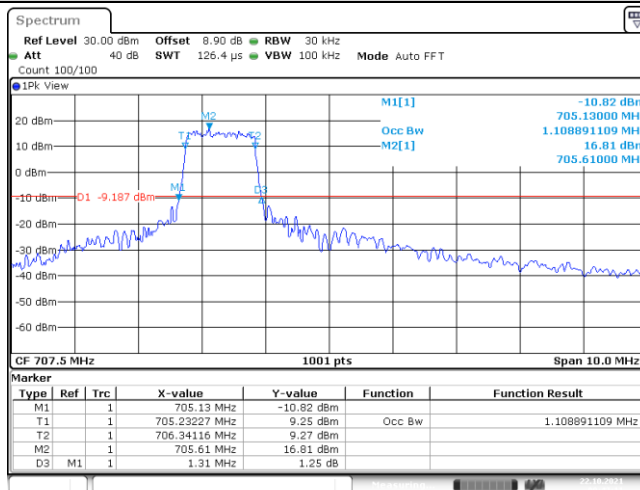
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Band12-3MHz-16QAM-23095-6-0-Low-1.097-1.290-PASS



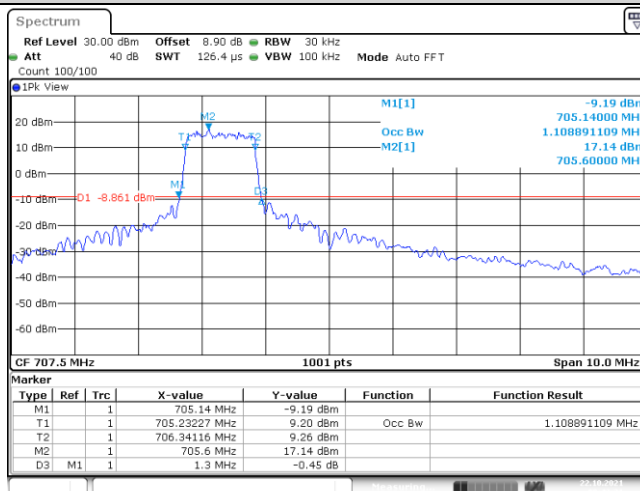
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Band12-5MHz-QPSK-23095-6-0-Low-1.109-1.310-PASS



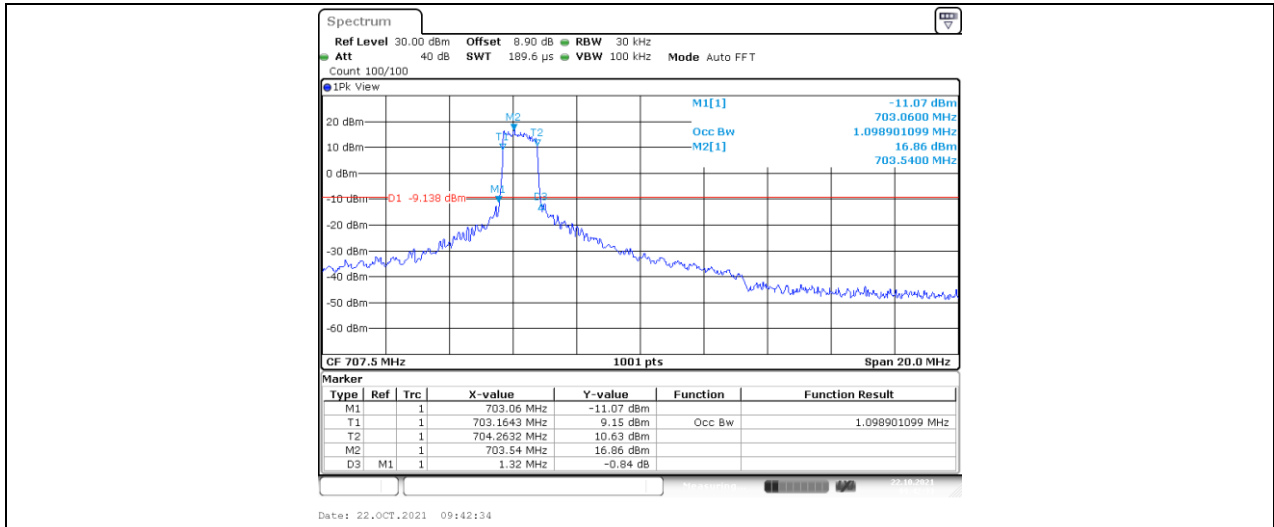
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Band12-5MHz-16QAM-23095-6-0-Low-1.109-1.300-PASS

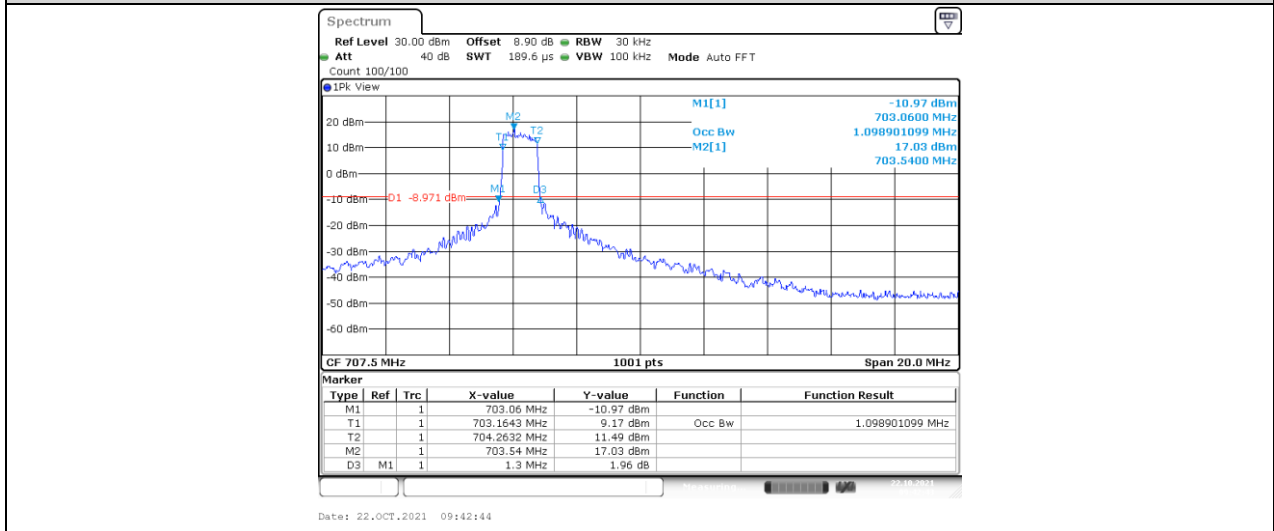


Date: 22.OCT.2021 09:42:21

Band12-10MHz-QPSK-23095-6-0-Low-1.099-1.320-PASS



Band12-10MHz-16QAM-23095-6-0-Low-1.099-1.300-PASS



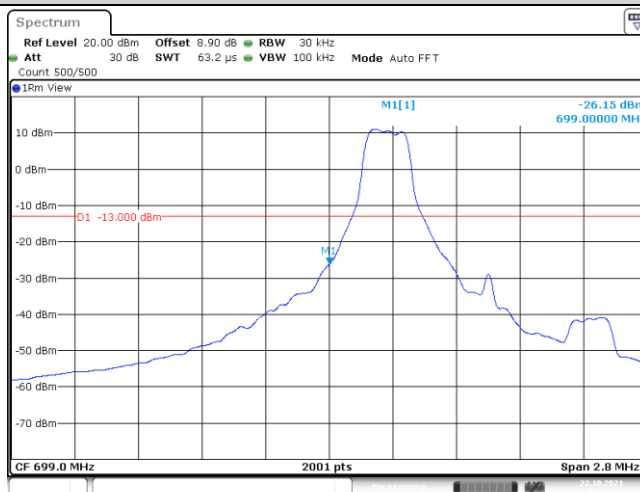
APPENDIX D.4: BAND EDGE FOR M1

Test Result

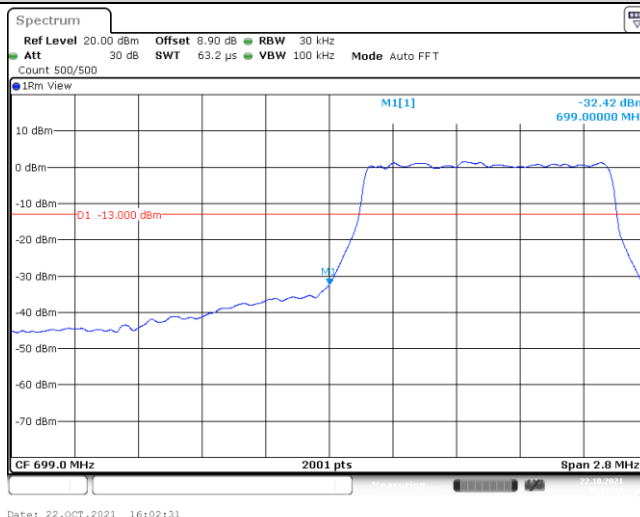
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	-26.15	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	-32.42	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	-26.30	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	-33.09	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	-26.33	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	-32.62	PASS
Band12	1.4MHz	23173	16QAM	1	5	Low	-26.50	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	-32.97	PASS

Test Graphs

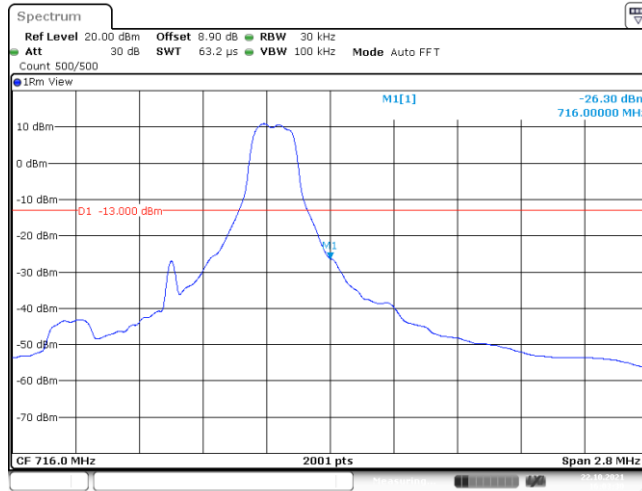
Band12-1.4MHz-QPSK-23017-1-0-Low--26.15-PASS



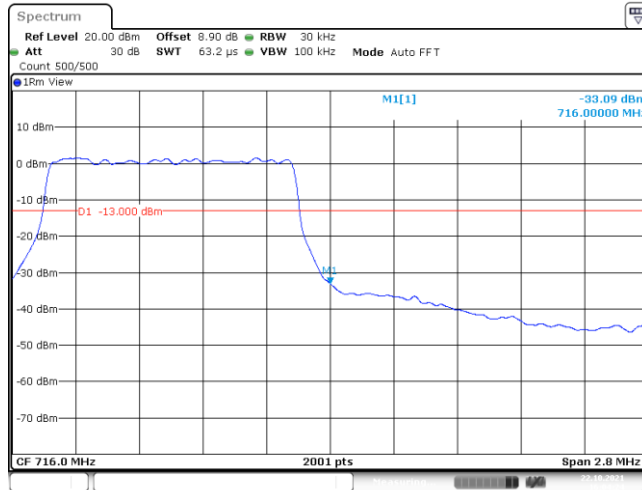
Band12-1.4MHz-QPSK-23017-6-0-Low--32.42-PASS



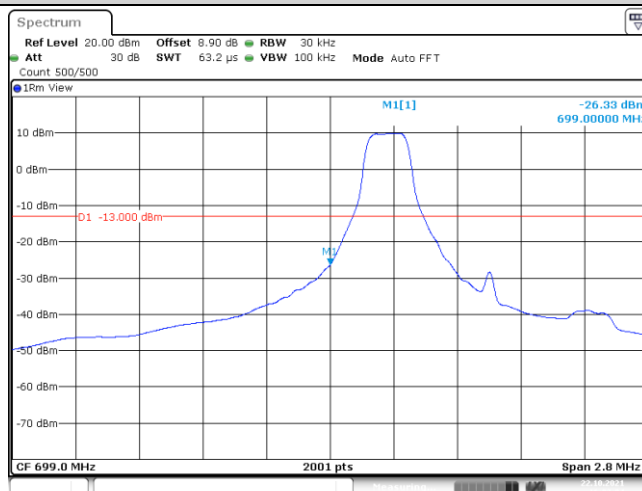
Band12-1.4MHz-QPSK-23173-1-5-Low--26.30-PASS



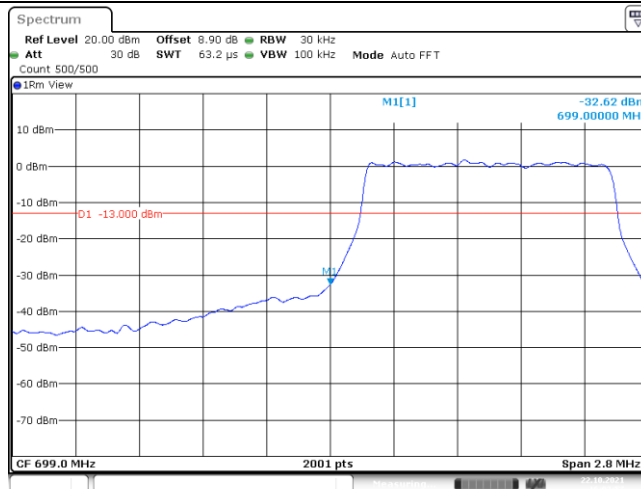
Band12-1.4MHz-QPSK-23173-6-0-Low--33.09-PASS



Band12-1.4MHz-16QAM-23017-1-0-Low--26.33-PASS

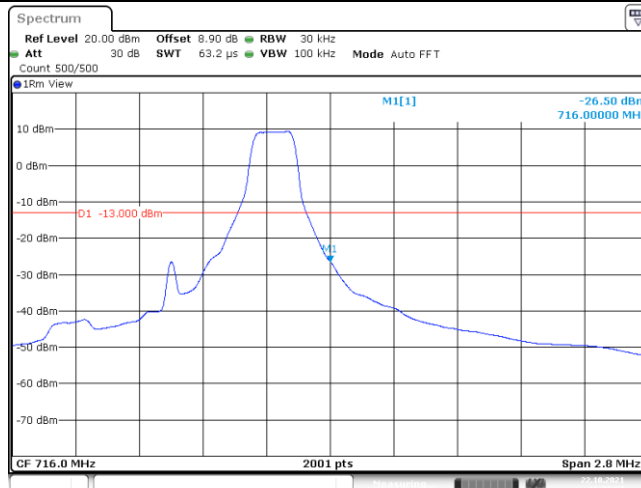


Band12-1.4MHz-16QAM-23017-6-0-Low--32.62-PASS



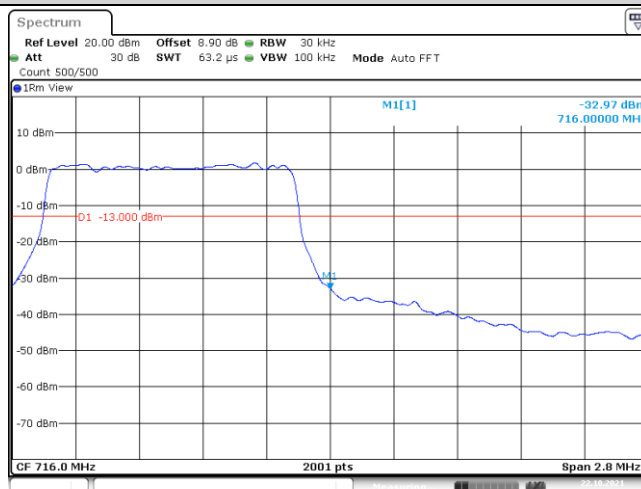
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Band12-1.4MHz-16QAM-23173-1-5-Low--26.50-PASS



Date: 22.OCT.2021 16:03:57

Band12-1.4MHz-16QAM-23173-6-0-Low--32.97-PASS



Date: 22.OCT.2021 16:04:51

APPENDIX D.5: CONDUCTED SPURIOUS EMISSION FOR M1

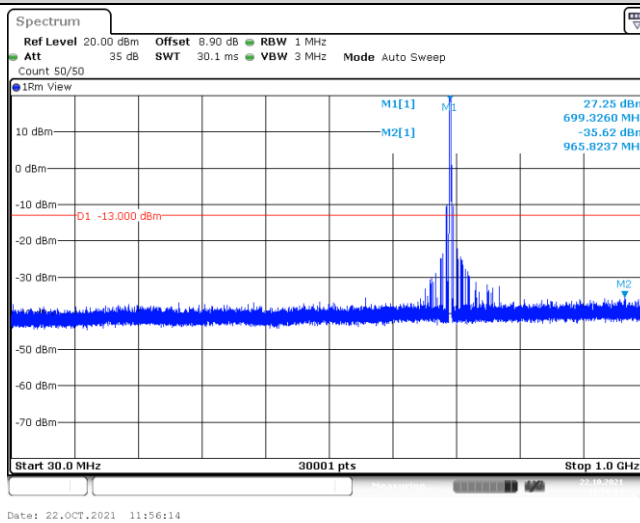
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	30	1000	-35.62	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	1000	5000	-40.97	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	5000	12000	-54.05	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	12000	26500	-50.22	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	30	1000	-36	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	1000	5000	-40.96	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	5000	12000	-54	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	12000	26500	-50.05	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	30	1000	-35.67	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	1000	5000	-40.93	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	5000	12000	-54.04	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	12000	26500	-50.32	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	30	1000	-35.85	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	1000	5000	-40.89	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	5000	12000	-54.03	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	12000	26500	-50.1	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	30	1000	-35.77	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	1000	5000	-40.98	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	5000	12000	-53.83	PASS
Band12	1.4MHz	23173	QPSK	1	5	Low	12000	26500	-50.1	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	30	1000	-35.45	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	1000	5000	-40.95	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	5000	12000	-53.86	PASS
Band12	1.4MHz	23173	QPSK	6	0	Low	12000	26500	-50.2	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	30	1000	-35.42	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	1000	5000	-40.76	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	5000	12000	-53.95	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	12000	26500	-50.28	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	30	1000	-35.94	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1000	5000	-40.87	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	5000	12000	-53.98	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	12000	26500	-50.17	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	30	1000	-35.8	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	1000	5000	-40.83	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	5000	12000	-54	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	12000	26500	-50.17	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	30	1000	-35.93	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1000	5000	-40.85	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	5000	12000	-53.99	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	12000	26500	-50.22	PASS
Band12	1.4MHz	23173	16QAM	1	5	Low	30	1000	-35.89	PASS

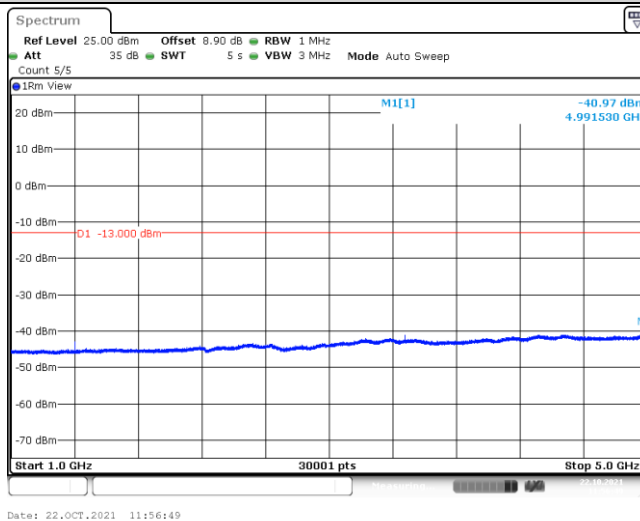
Band12	1.4MHz	23173	16QAM	1	5	Low	1000	5000	-40.98	PASS
Band12	1.4MHz	23173	16QAM	1	5	Low	5000	12000	-53.96	PASS
Band12	1.4MHz	23173	16QAM	1	5	Low	12000	26500	-50.19	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	30	1000	-35.41	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	1000	5000	-40.88	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	5000	12000	-54	PASS
Band12	1.4MHz	23173	16QAM	6	0	Low	12000	26500	-50.24	PASS

Test Graphs

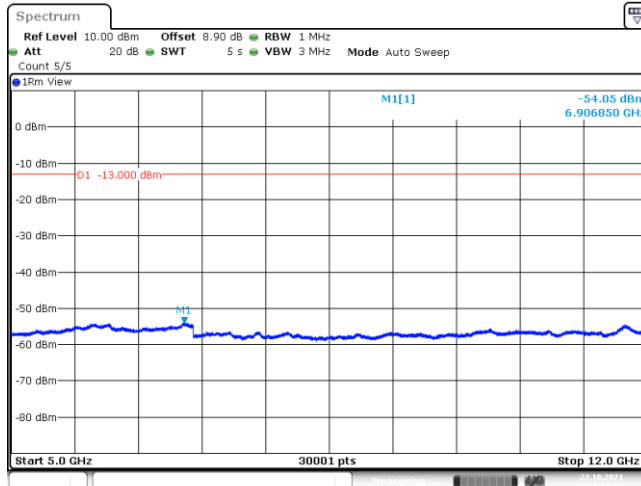
Band12-1.4MHz-QPSK-23017-1-0-Low-30-1000--35.62-PASS



Band12-1.4MHz-QPSK-23017-1-0-Low-1000-5000--40.97-PASS

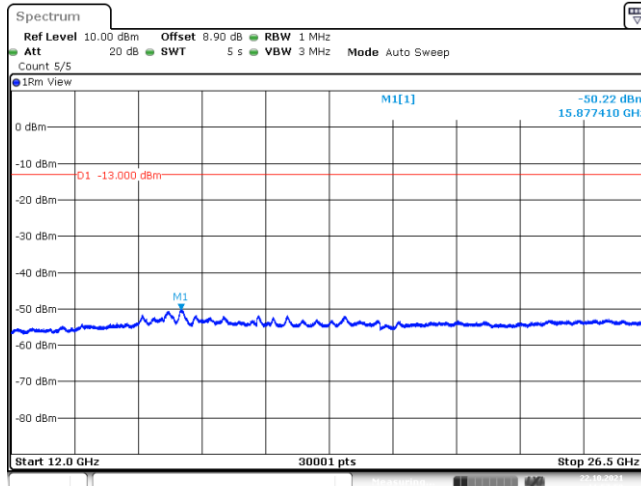


Band12-1.4MHz-QPSK-23017-1-0-Low-5000-12000--54.05-PASS



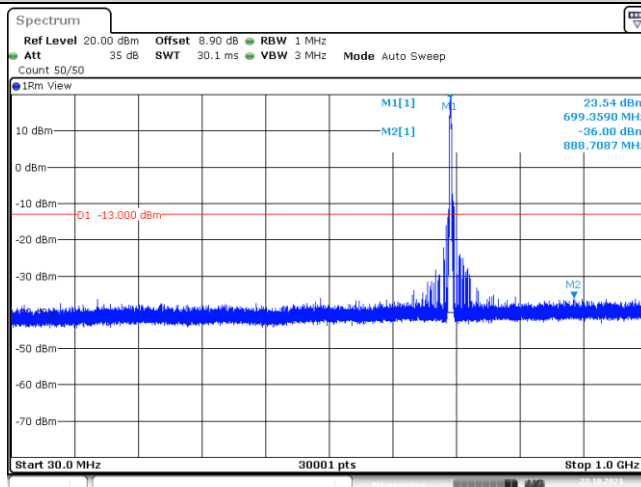
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Band12-1.4MHz-QPSK-23017-1-0-Low-12000-26500--50.22-PASS



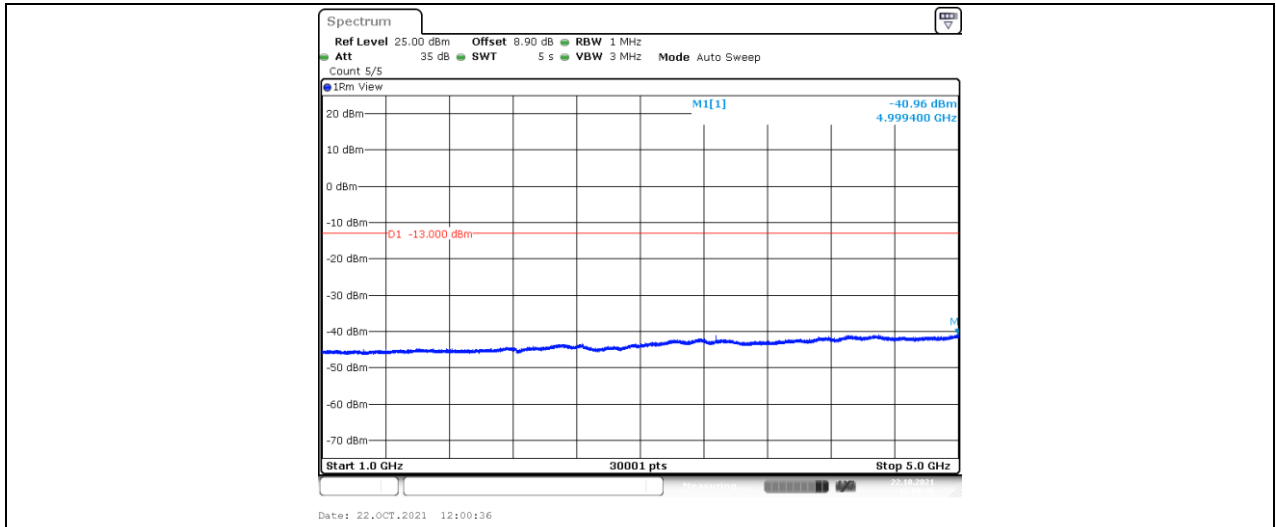
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Band12-1.4MHz-QPSK-23017-6-0-Low-30-1000--36-PASS

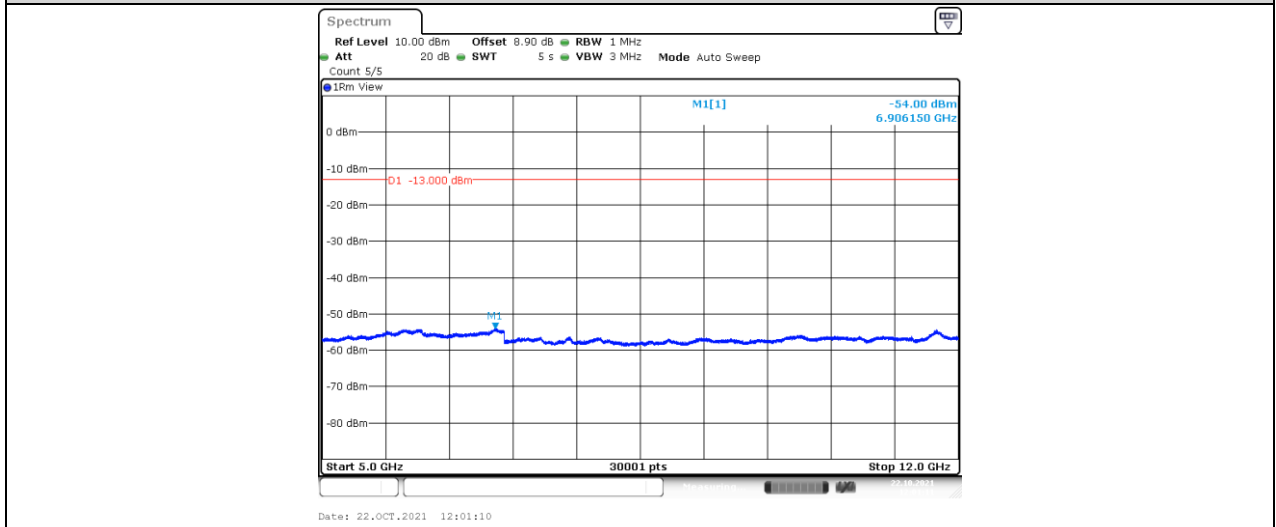


Date: 22.OCT.2021 12:00:01

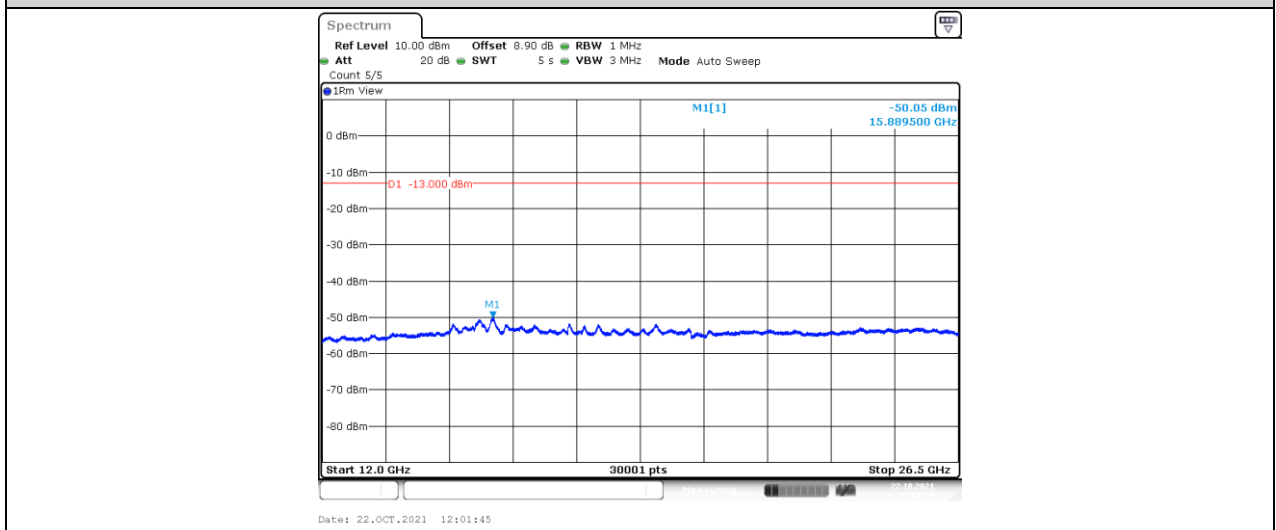
Band12-1.4MHz-QPSK-23017-6-0-Low-1000-5000--40.96-PASS



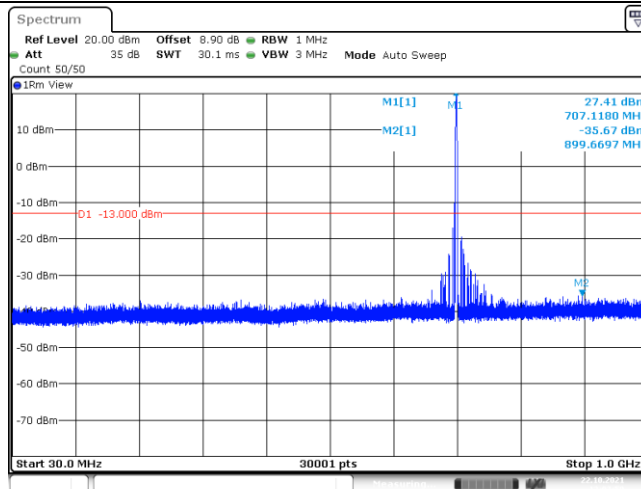
Band12-1.4MHz-QPSK-23017-6-0-Low-5000-12000--54-PASS



Band12-1.4MHz-QPSK-23017-6-0-Low-12000-26500--50.05-PASS

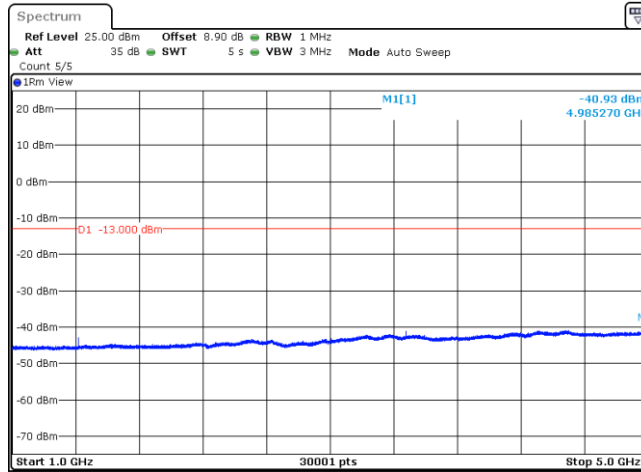


Band12-1.4MHz-QPSK-23095-1-0-Low-30-1000--35.67-PASS



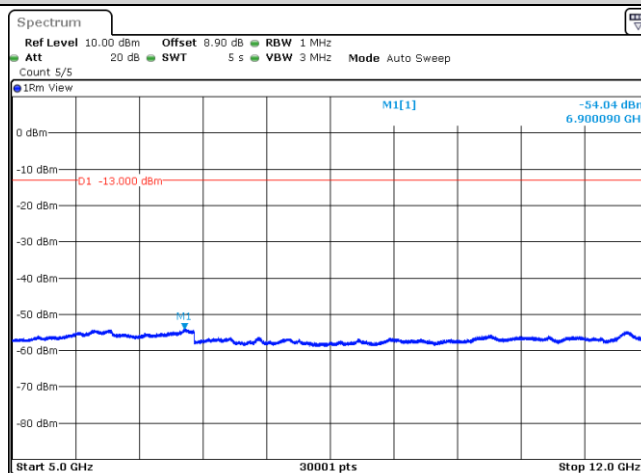
Date: 22.OCT.2021 12:03:50

Band12-1.4MHz-QPSK-23095-1-0-Low-1000-5000--40.93-PASS



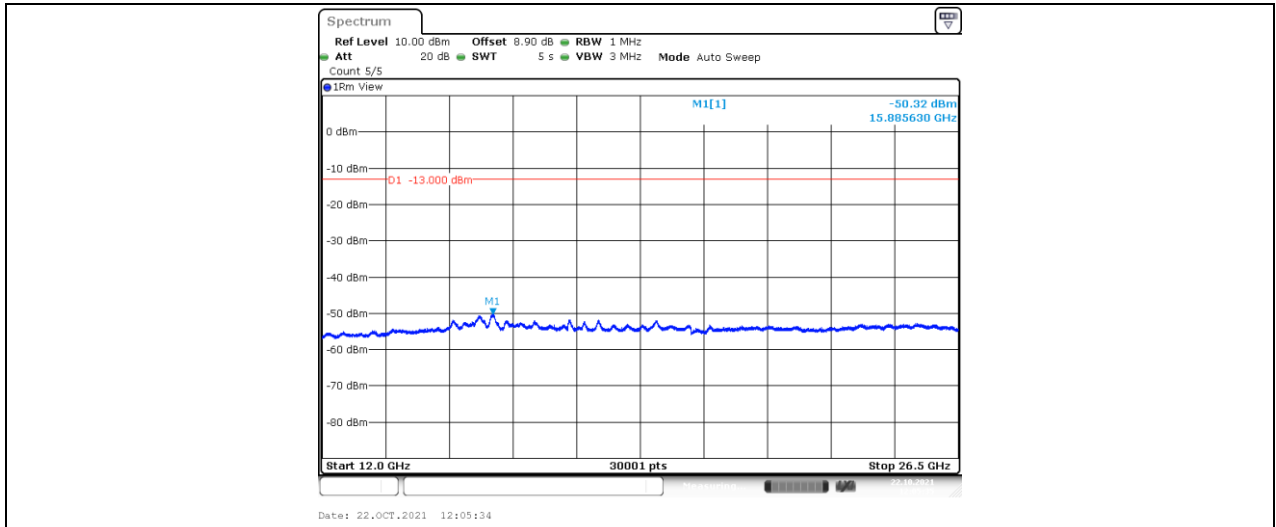
Date: 22.OCT.2021 12:04:25

Band12-1.4MHz-QPSK-23095-1-0-Low-5000-12000--54.04-PASS

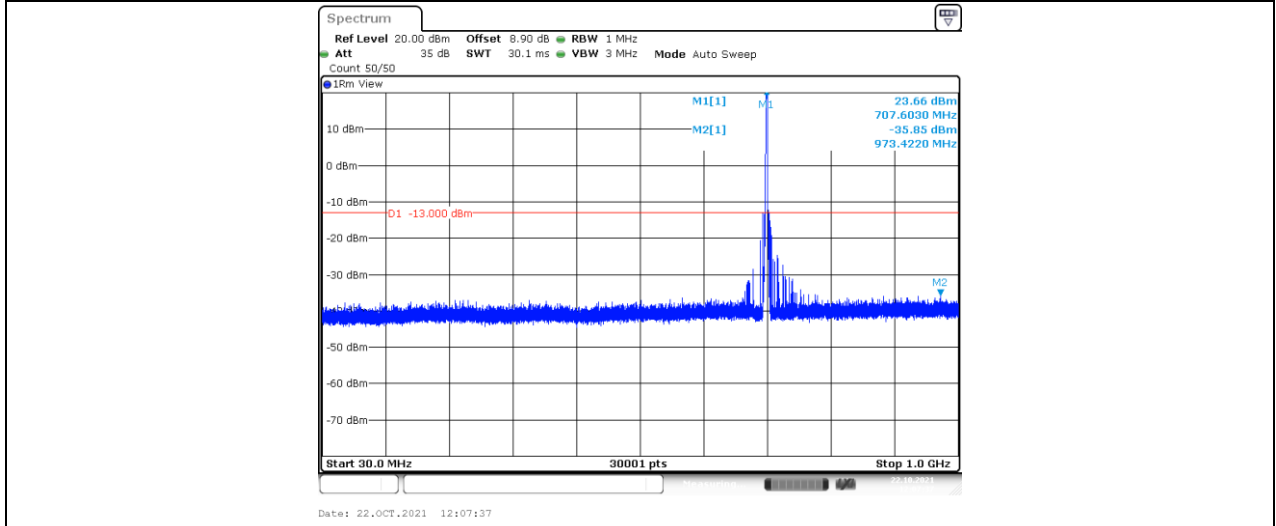


Date: 22.OCT.2021 12:05:00

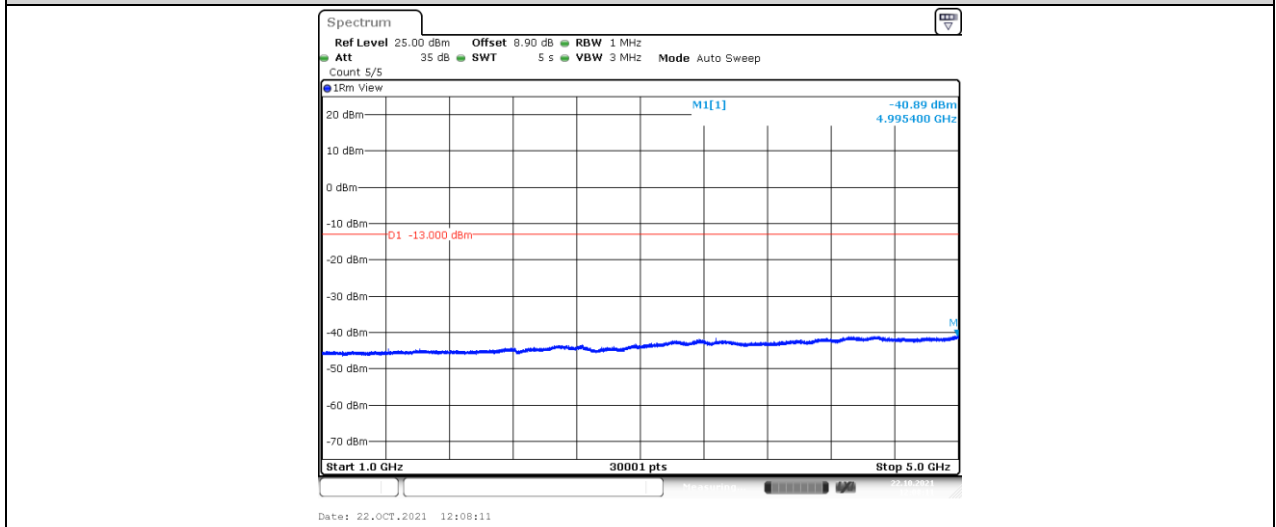
Band12-1.4MHz-QPSK-23095-1-0-Low-12000-26500--50.32-PASS



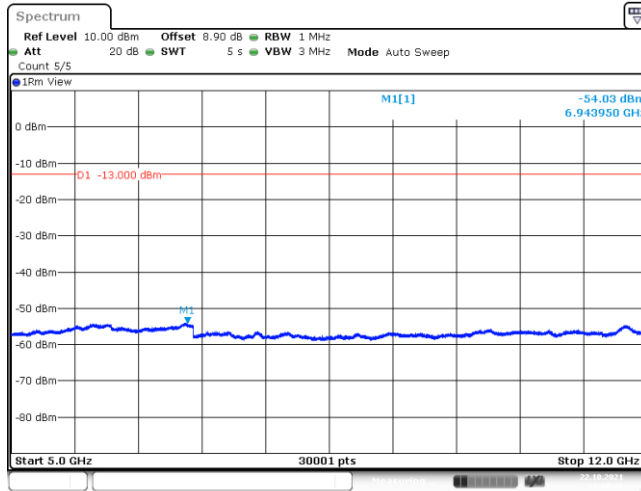
Band12-1.4MHz-QPSK-23095-6-0-Low-30-1000--35.85-PASS



Band12-1.4MHz-QPSK-23095-6-0-Low-1000-5000--40.89-PASS

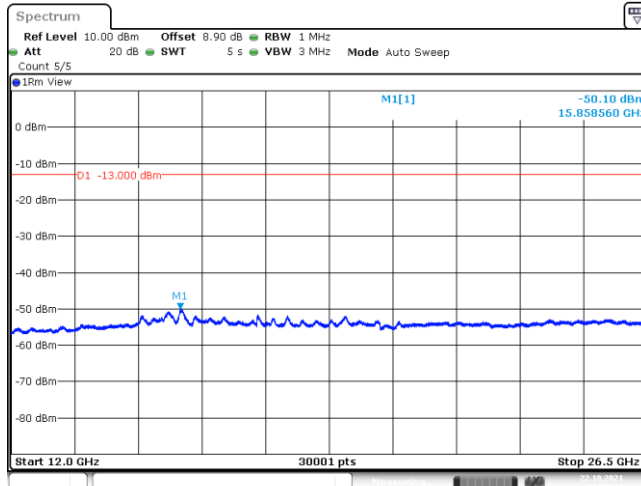


Band12-1.4MHz-QPSK-23095-6-0-Low-5000-12000--54.03-PASS



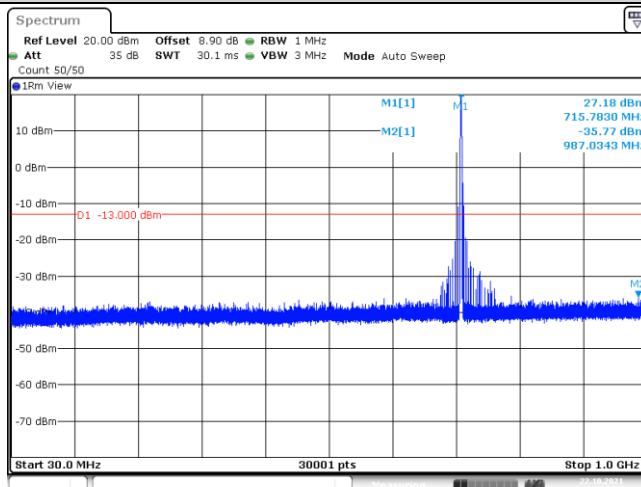
Date: 22.OCT.2021 12:08:46

Band12-1.4MHz-QPSK-23095-6-0-Low-12000-26500--50.1-PASS



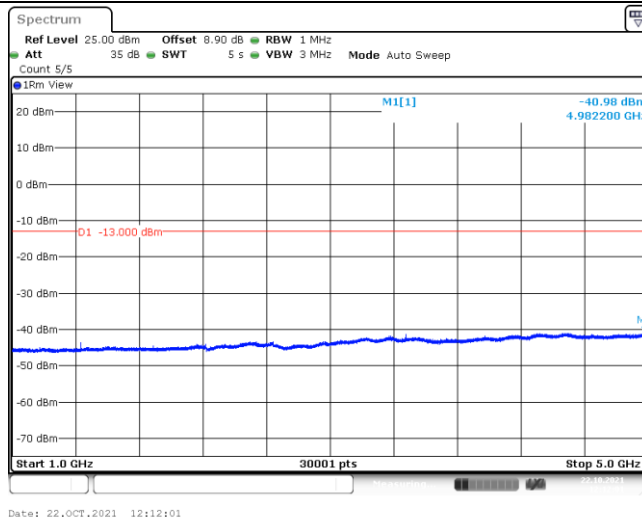
Date: 22.OCT.2021 12:09:21

Band12-1.4MHz-QPSK-23173-1-5-Low-30-1000--35.77-PASS

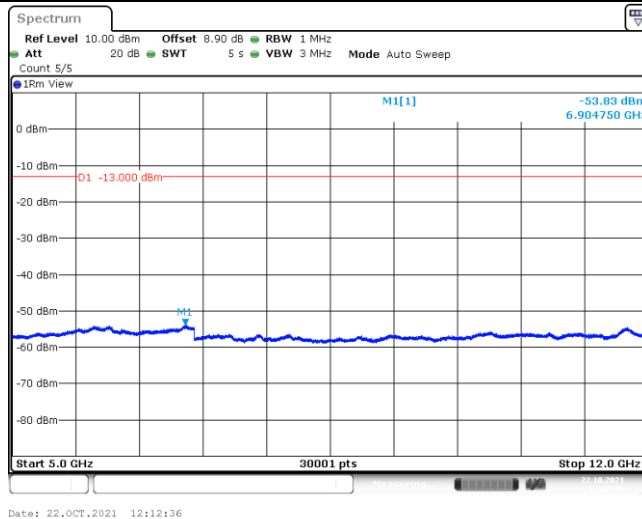


Date: 22.OCT.2021 12:11:26

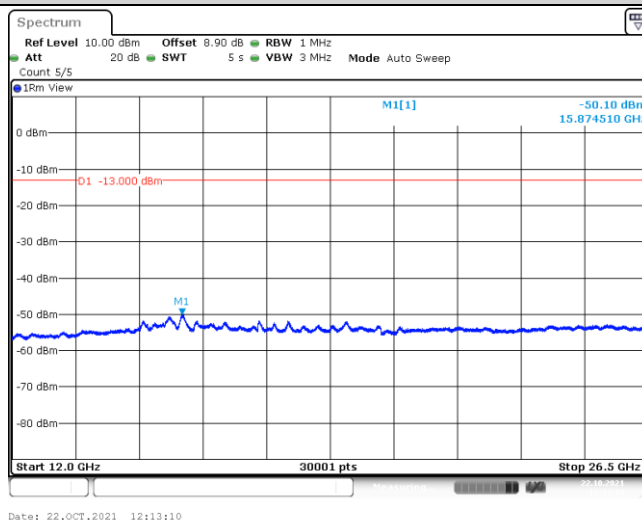
Band12-1.4MHz-QPSK-23173-1-5-Low-1000-5000--40.98-PASS



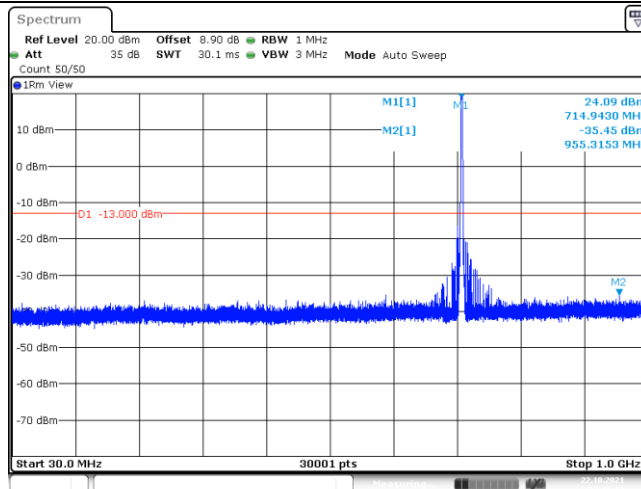
Band12-1.4MHz-QPSK-23173-1-5-Low-5000-12000--53.83-PASS



Band12-1.4MHz-QPSK-23173-1-5-Low-12000-26500--50.1-PASS

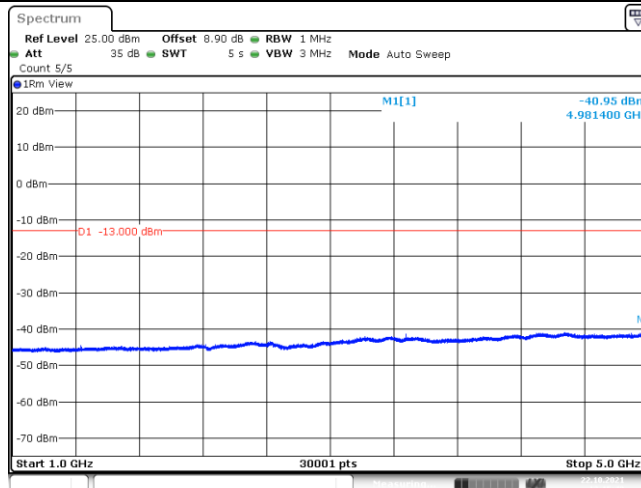


Band12-1.4MHz-QPSK-23173-6-0-Low-30-1000--35.45-PASS



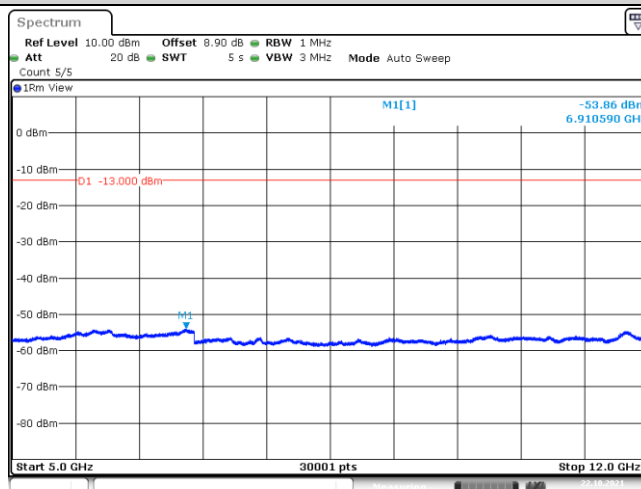
Date: 22.OCT.2021 12:15:13

Band12-1.4MHz-QPSK-23173-6-0-Low-1000-5000--40.95-PASS



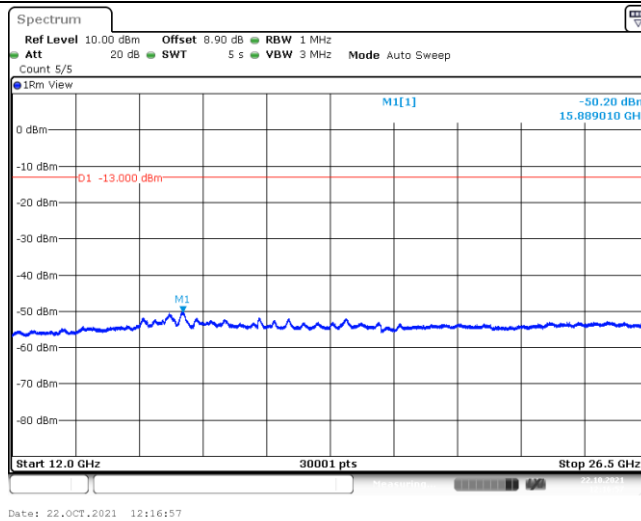
Date: 22.OCT.2021 12:15:47

Band12-1.4MHz-QPSK-23173-6-0-Low-5000-12000--53.86-PASS

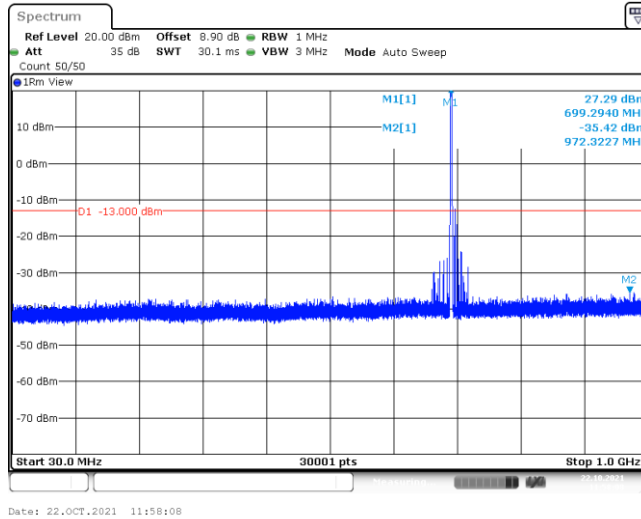


Date: 22.OCT.2021 12:16:22

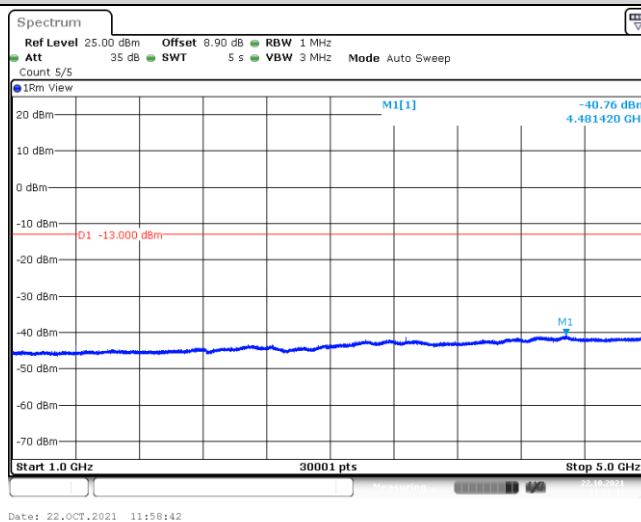
Band12-1.4MHz-QPSK-23173-6-0-Low-12000-26500--50.2-PASS



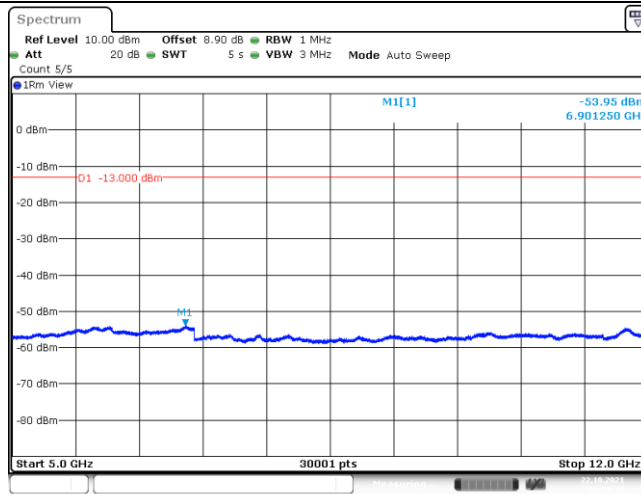
Band12-1.4MHz-16QAM-23017-1-0-Low-30-1000--35.42-PASS



Band12-1.4MHz-16QAM-23017-1-0-Low-1000-5000--40.76-PASS

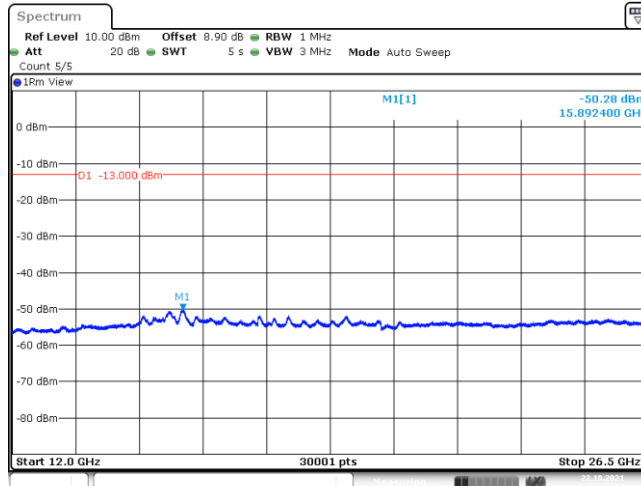


Band12-1.4MHz-16QAM-23017-1-0-Low-5000-12000--53.95-PASS



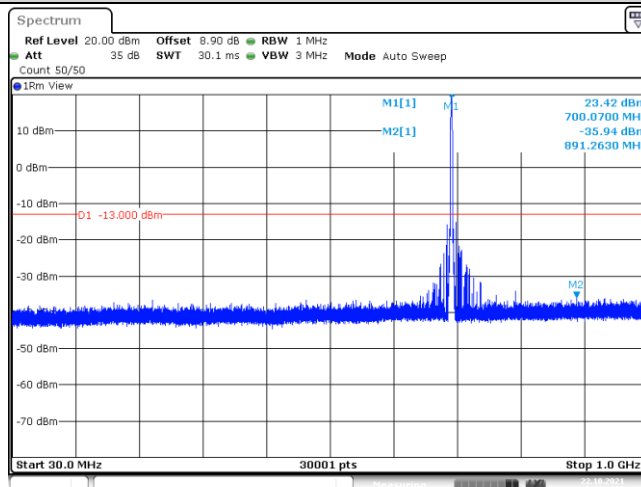
Date: 22.OCT.2021 11:59:17

Band12-1.4MHz-16QAM-23017-1-0-Low-12000-26500--50.28-PASS



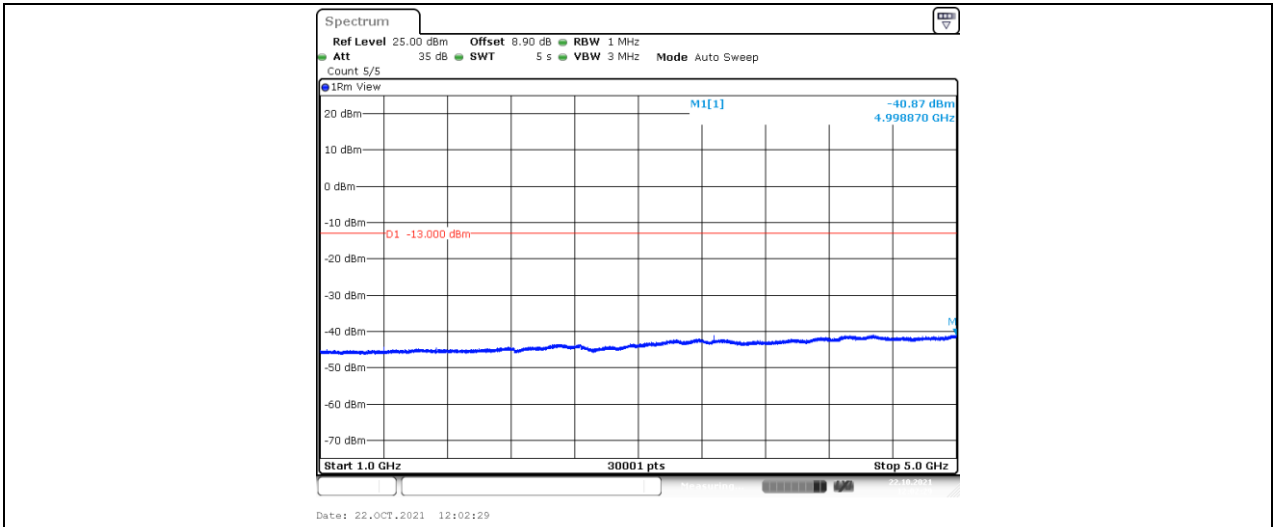
Date: 22.OCT.2021 11:59:52

Band12-1.4MHz-16QAM-23017-6-0-Low-30-1000--35.94-PASS

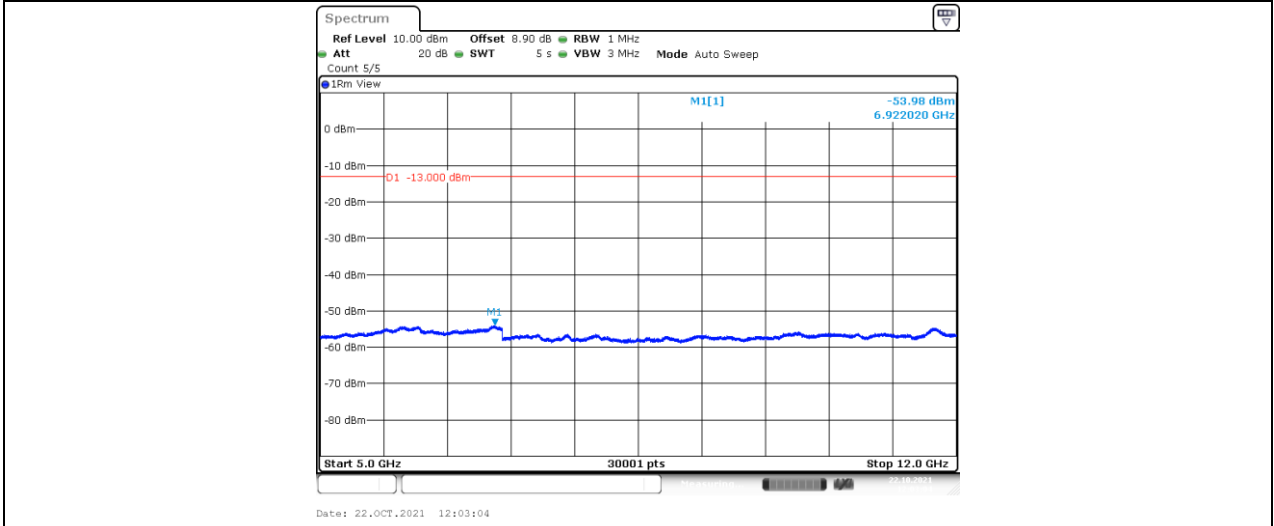


Date: 22.OCT.2021 12:01:54

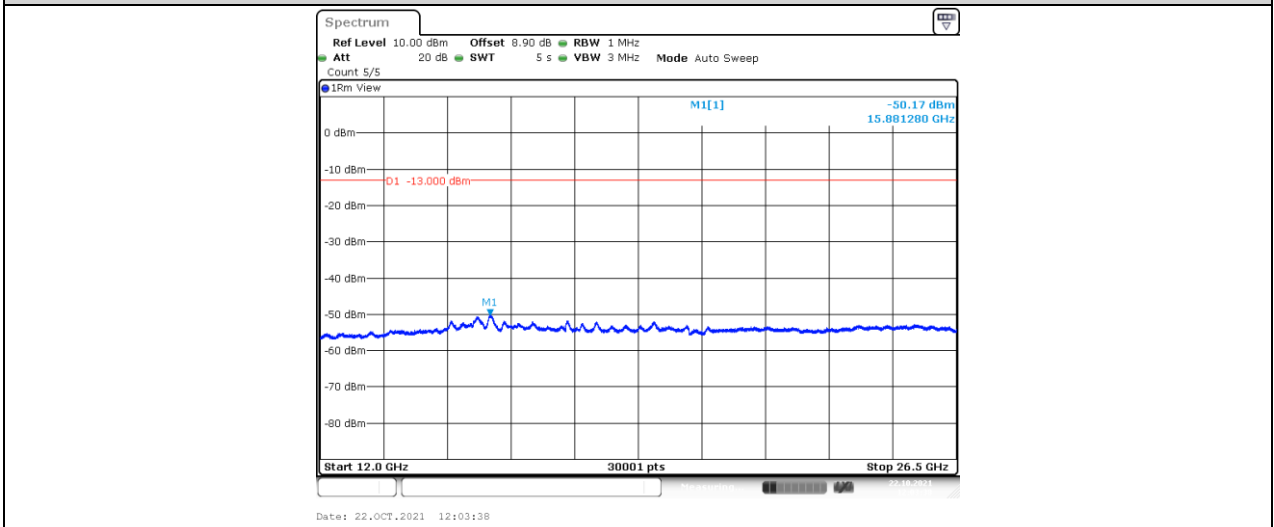
Band12-1.4MHz-16QAM-23017-6-0-Low-1000-5000--40.87-PASS



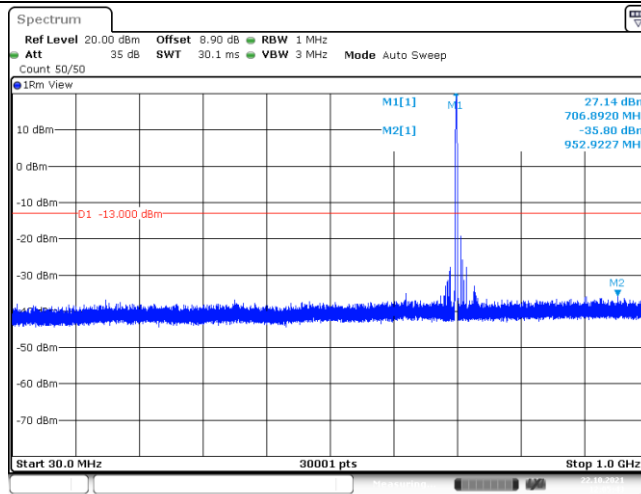
Band12-1.4MHz-16QAM-23017-6-0-Low-5000-12000--53.98-PASS



Band12-1.4MHz-16QAM-23017-6-0-Low-12000-26500--50.17-PASS

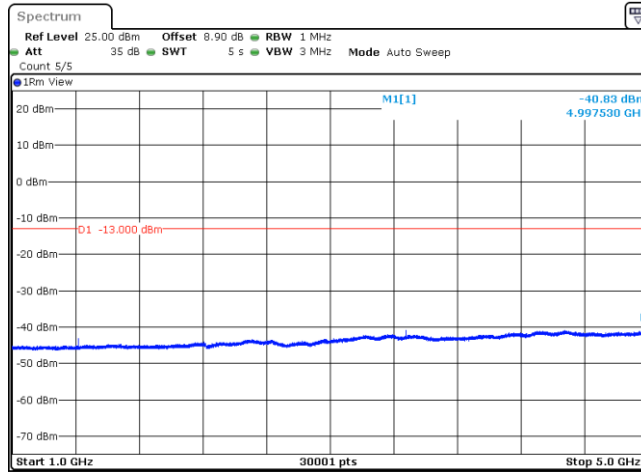


Band12-1.4MHz-16QAM-23095-1-0-Low-30-1000--35.8-PASS



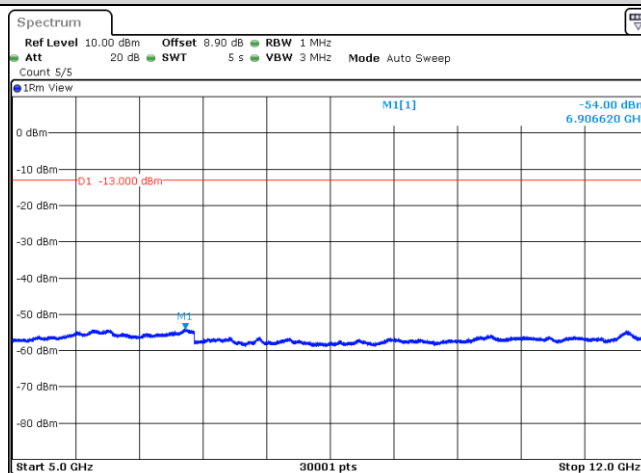
Date: 22.OCT.2021 12:05:43

Band12-1.4MHz-16QAM-23095-1-0-Low-1000-5000--40.83-PASS



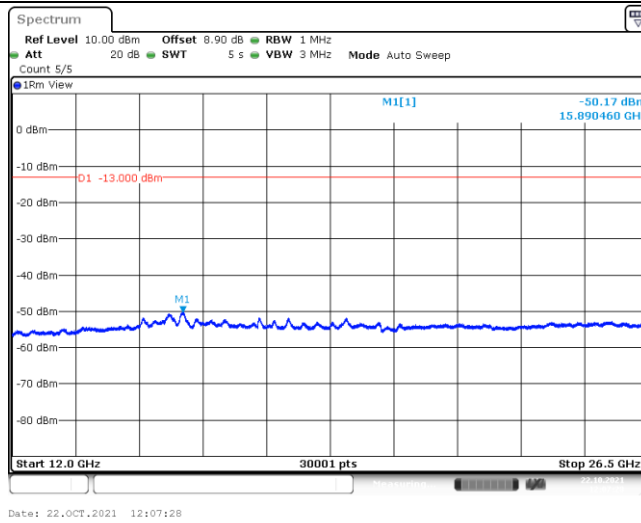
Date: 22.OCT.2021 12:06:18

Band12-1.4MHz-16QAM-23095-1-0-Low-5000-12000--54-PASS

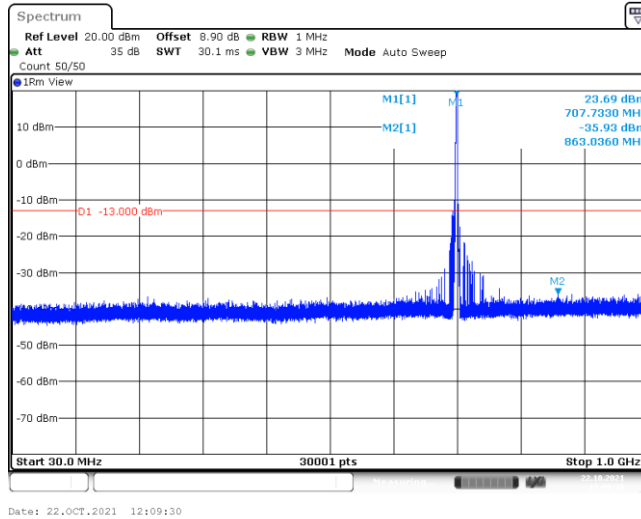


Date: 22.OCT.2021 12:06:53

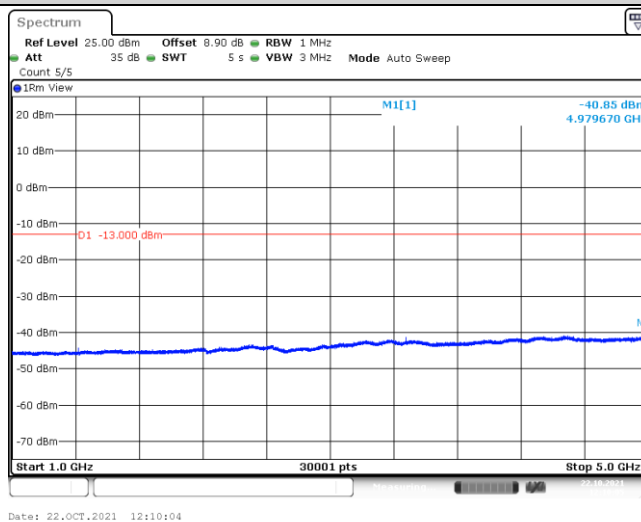
Band12-1.4MHz-16QAM-23095-1-0-Low-12000-26500--50.17-PASS



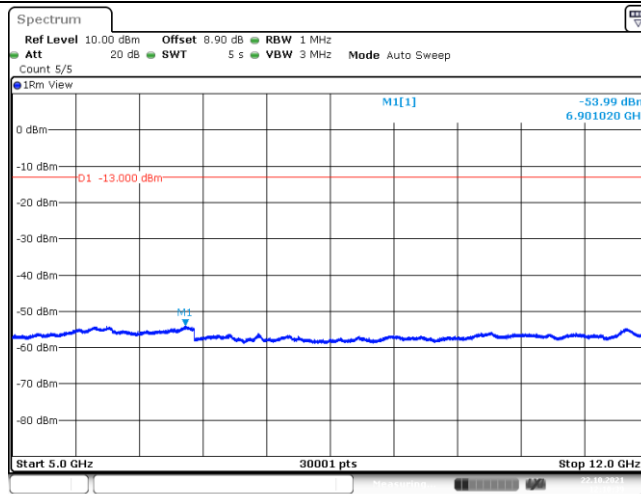
Band12-1.4MHz-16QAM-23095-6-0-Low-30-1000--35.93-PASS



Band12-1.4MHz-16QAM-23095-6-0-Low-1000-5000--40.85-PASS

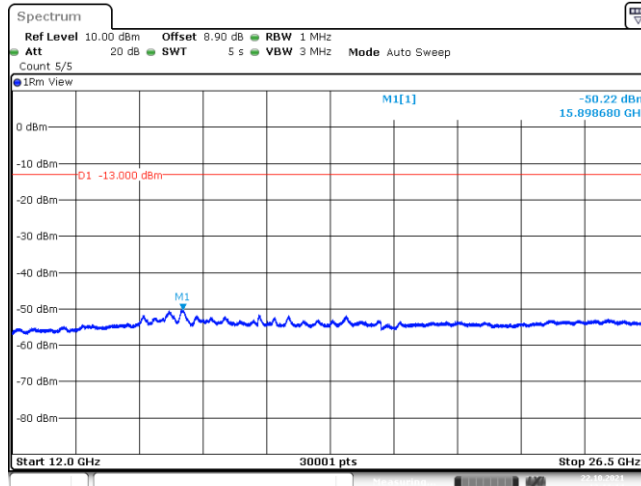


Band12-1.4MHz-16QAM-23095-6-0-Low-5000-12000--53.99-PASS



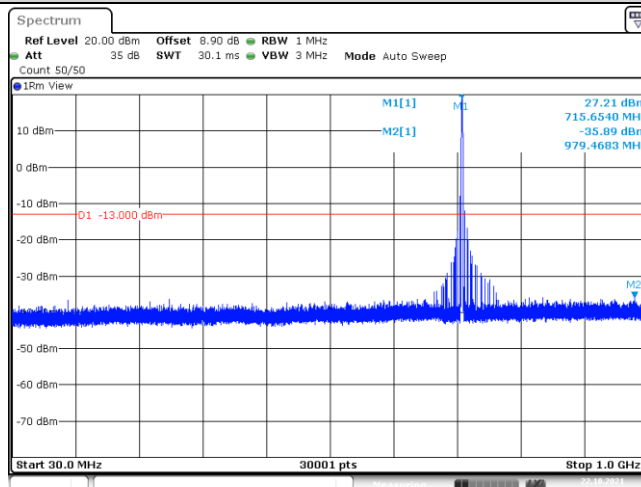
Date: 22.OCT.2021 12:10:39

Band12-1.4MHz-16QAM-23095-6-0-Low-12000-26500--50.22-PASS



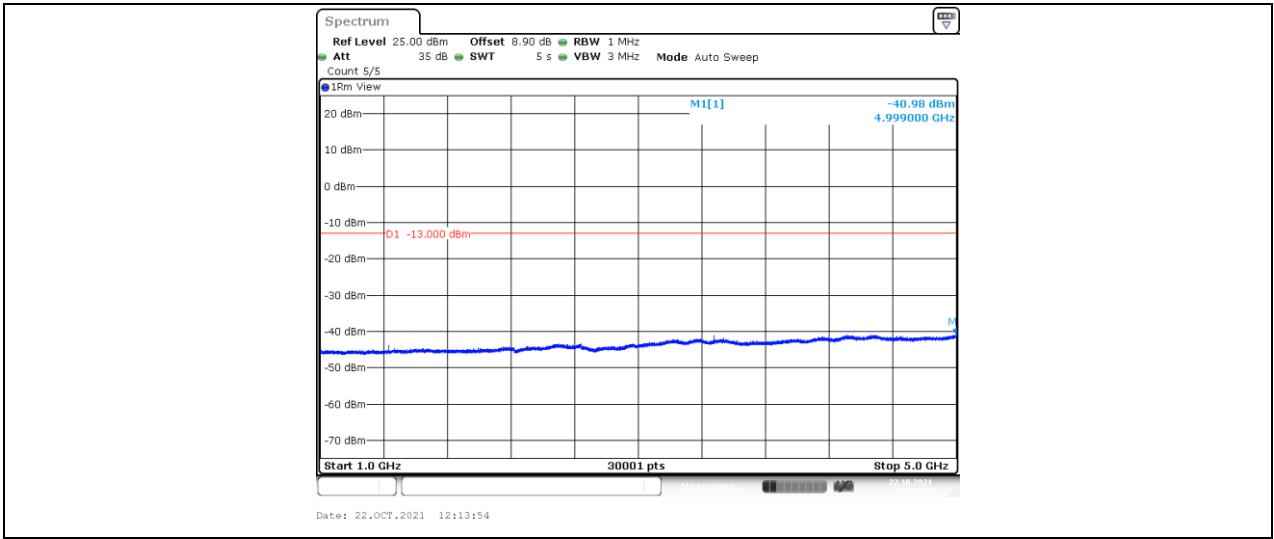
Date: 22.OCT.2021 12:11:14

Band12-1.4MHz-16QAM-23173-1-5-Low-30-1000--35.89-PASS

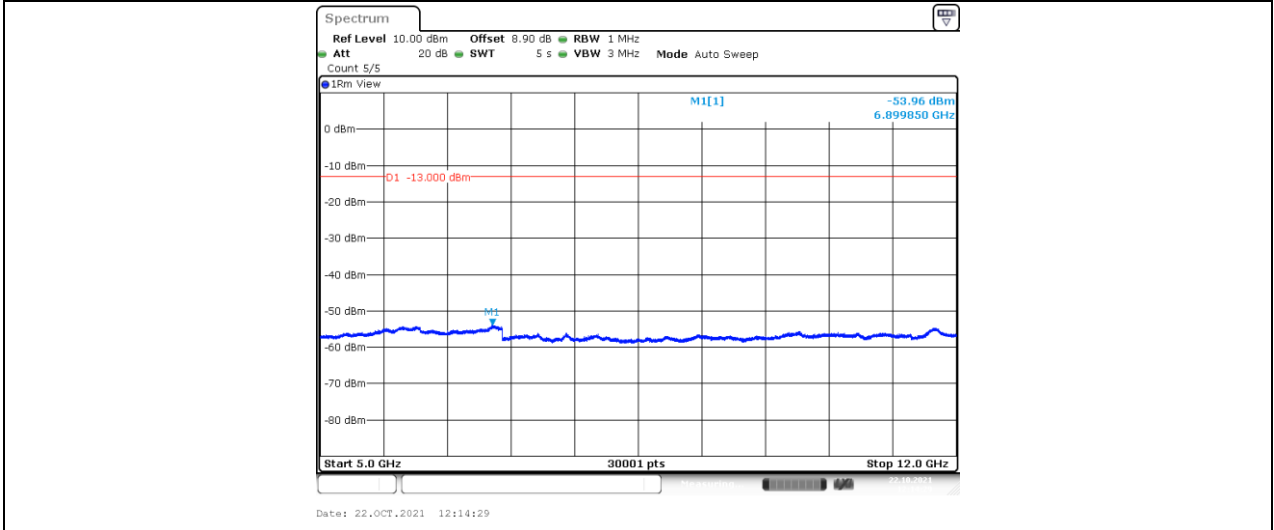


Date: 22.OCT.2021 12:13:19

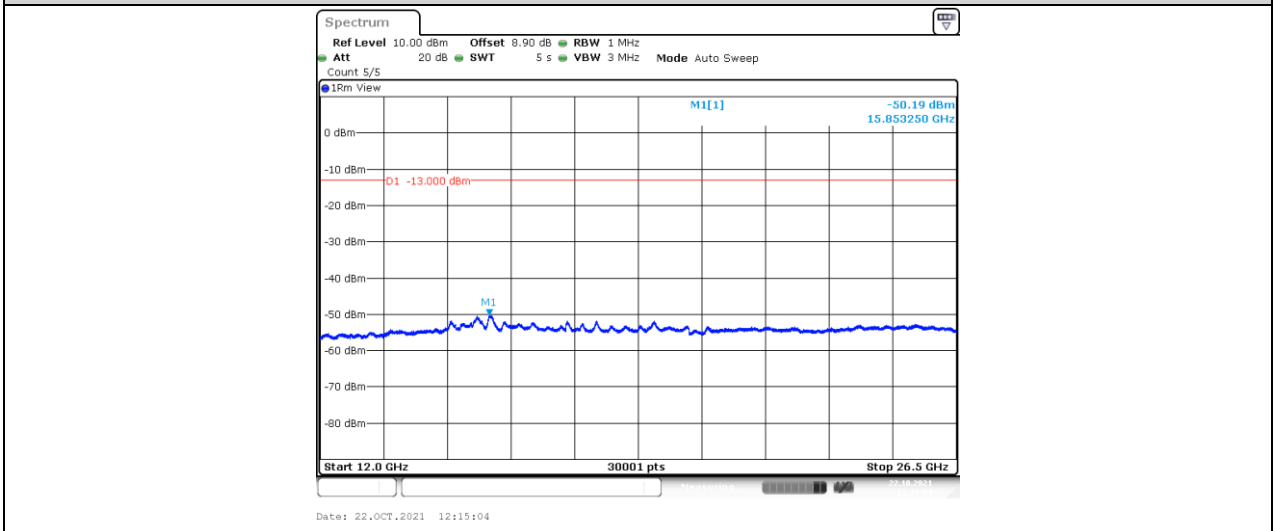
Band12-1.4MHz-16QAM-23173-1-5-Low-1000-5000--40.98-PASS



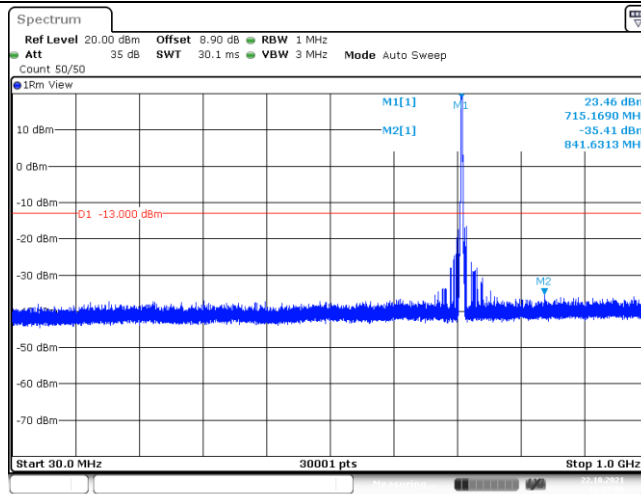
Band12-1.4MHz-16QAM-23173-1-5-Low-5000-12000--53.96-PASS



Band12-1.4MHz-16QAM-23173-1-5-Low-12000-26500--50.19-PASS

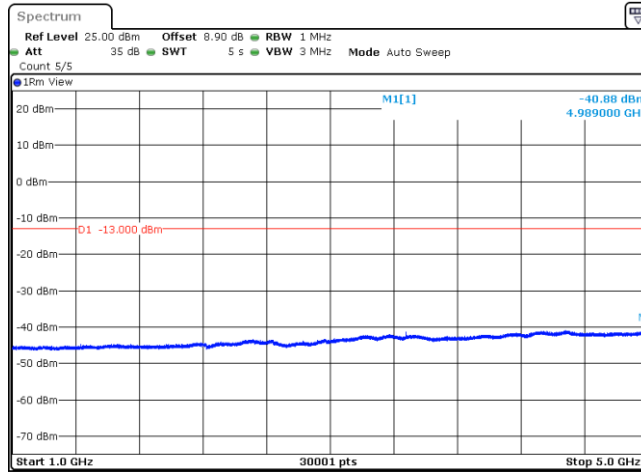


Band12-1.4MHz-16QAM-23173-6-0-Low-30-1000--35.41-PASS



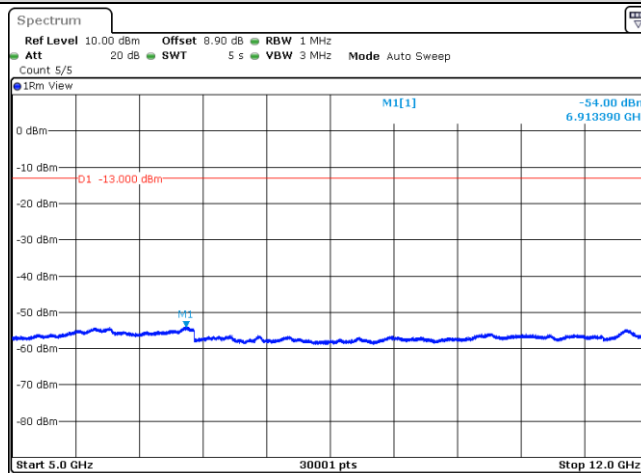
Date: 22.OCT.2021 12:17:06

Band12-1.4MHz-16QAM-23173-6-0-Low-1000-5000--40.88-PASS



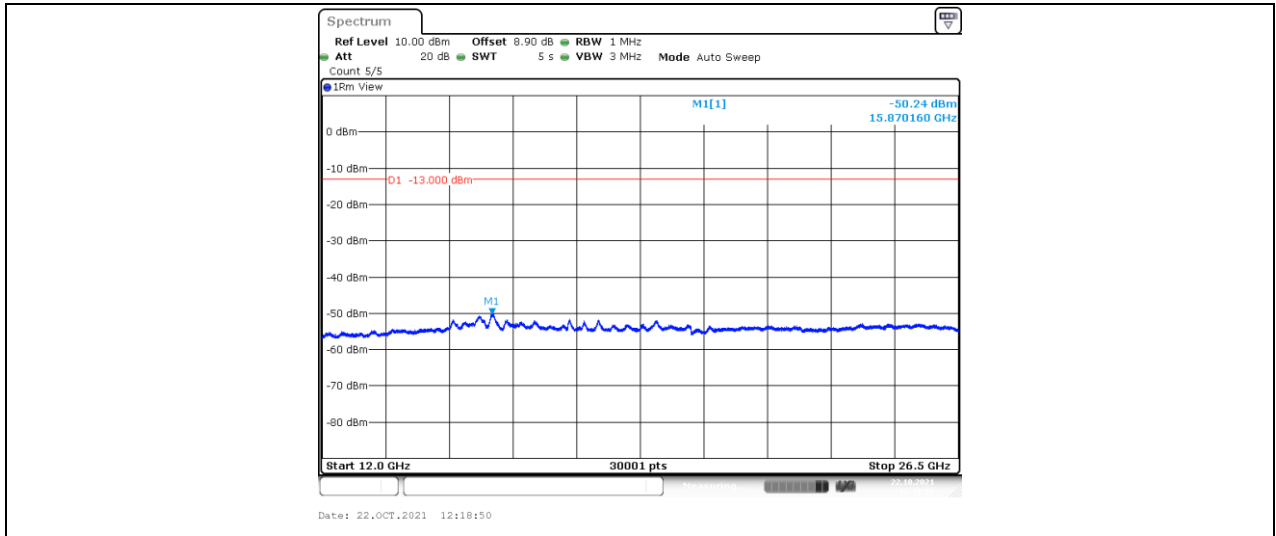
Date: 22.OCT.2021 12:17:41

Band12-1.4MHz-16QAM-23173-6-0-Low-5000-12000--54-PASS



Date: 22.OCT.2021 12:18:15

Band12-1.4MHz-16QAM-23173-6-0-Low-12000-26500--50.24-PASS



APPENDIX D.6: FREQUENCY STABILITY FOR M1

Test Result

Voltage												
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	23095	QPSK	1	0	Low	HV	NT	-6.27	-0.008862	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	LV	NT	-6.51	-0.009201	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	NT	-6.34	-0.008961	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	HV	NT	-106.92	-0.151124	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	LV	NT	-24.19	-0.034191	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	NT	-104.47	-0.147661	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	85	-4.89	-0.006912	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	-30	-6.14	-0.008678	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	-20	-6.01	-0.008495	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	-10	-5.65	-0.007986	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	0	-6.32	-0.008933	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	10	-5.87	-0.008297	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	20	-4.89	-0.006912	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	30	-6.32	-0.008933	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	40	-4.88	-0.006898	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	50	-4.91	-0.006940	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	60	-6.87	-0.009710	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	70	-5.38	-0.007604	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	-40	-5.62	-0.007943	±2.5	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	NV	80	-7.40	-0.010459	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	85	-105.56	-0.149201	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	-30	-22.85	-0.032297	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	-20	-23.40	-0.033074	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	-10	-106.07	-0.149922	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	0	-105.93	-0.149724	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	10	-22.75	-0.032155	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	20	-21.10	-0.029823	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	30	-104.68	-0.147958	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	40	-106.90	-0.151095	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	50	-22.14	-0.031293	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	60	-24.06	-0.034007	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	70	-22.09	-0.031223	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	80	-107.20	-0.151519	±2.5	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	NV	-40	-103.91	-0.146869	±2.5	PASS