

# APPENDIX D: TEST RESULTS OF BAND 12 FOR NB-IOT OPERATION

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## APPENDIX D.1: EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR NB-IOT

### Test Result

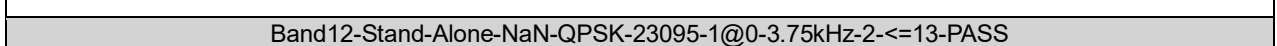
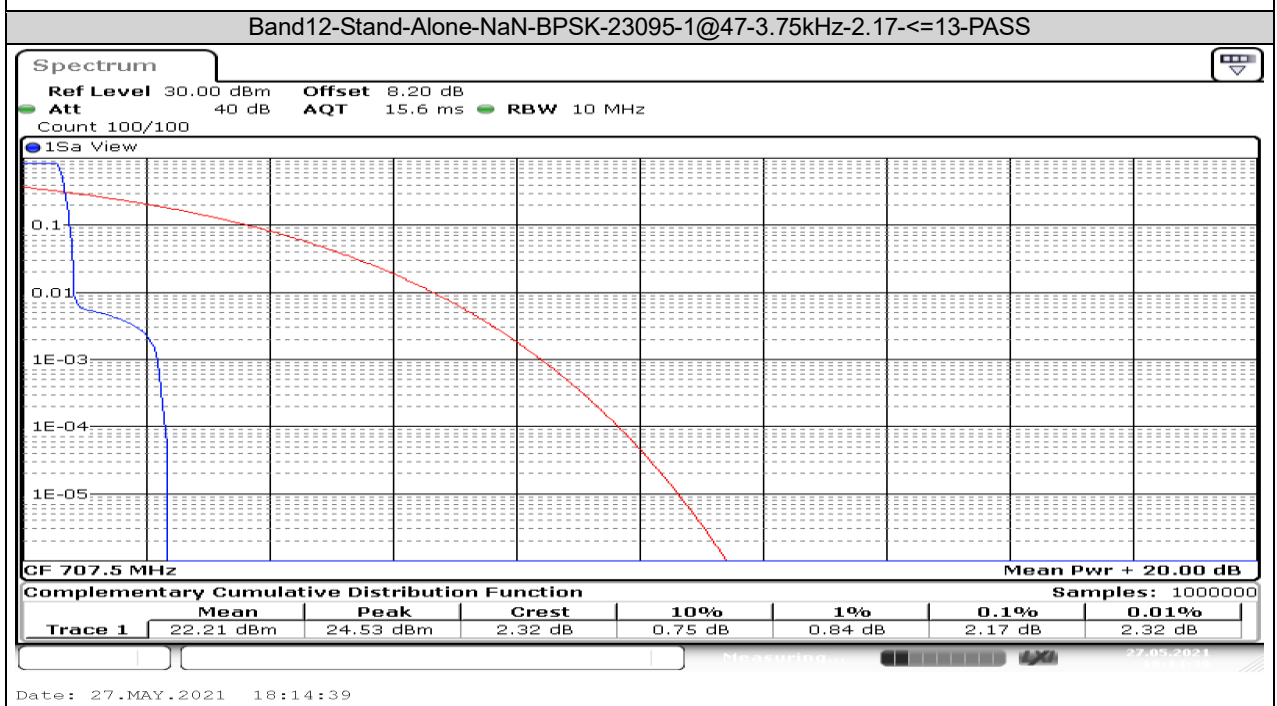
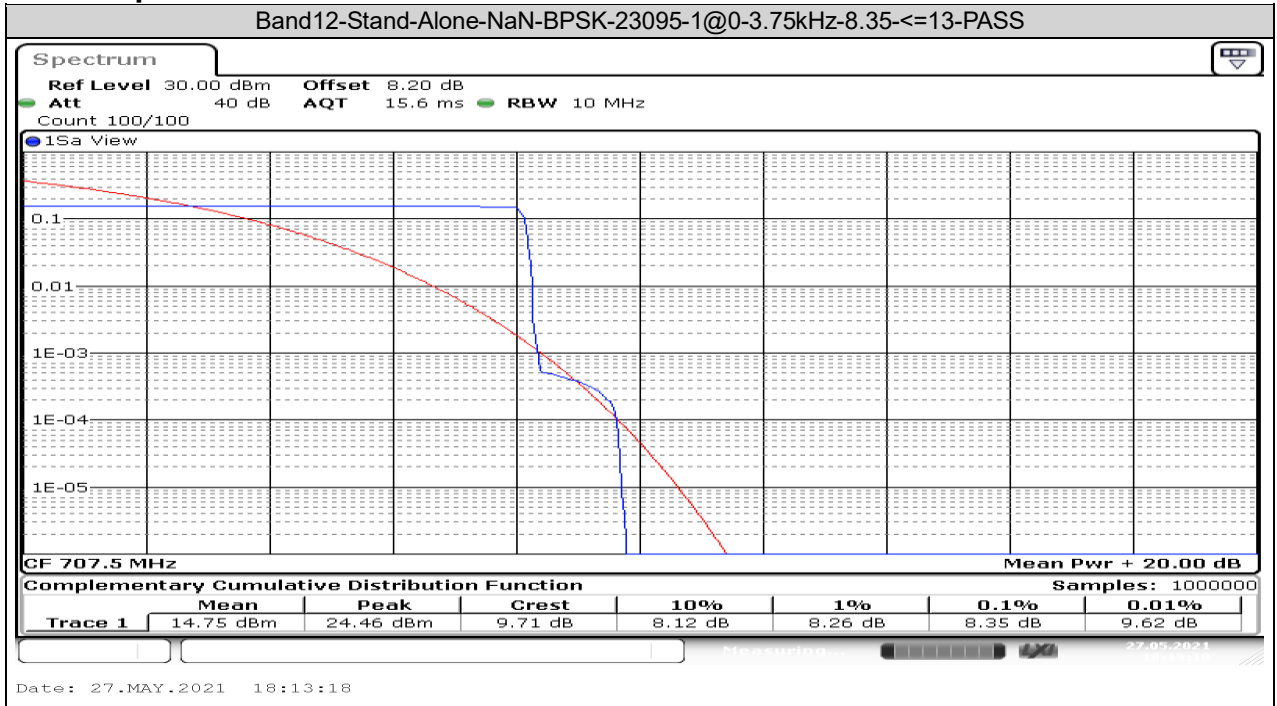
Band	OpMode	SCS	BW	Modu	Channel	Tones	Measure Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@0	6.57	6.56	0.005	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@47	6.47	6.46	0.004	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23012	1@0	23.08	23.07	0.203	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23012	1@47	23.06	23.05	0.202	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	23.01	23.00	0.200	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@47	22.95	22.94	0.197	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23178	1@0	23	22.99	0.199	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23178	1@47	22.97	22.96	0.198	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@0	6.52	6.51	0.004	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@47	6.49	6.48	0.004	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	6.64	6.63	0.005	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	6.56	6.55	0.005	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23012	1@0	23.2	23.19	0.208	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23012	1@47	23.11	23.10	0.204	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	23.18	23.17	0.207	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	23.03	23.02	0.200	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23178	1@0	23.05	23.04	0.201	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23178	1@47	23	22.99	0.199	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	6.65	6.64	0.005	3	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	6.6	6.59	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	6.58	6.57	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	6.5	6.49	0.004	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	3@3	6.64	6.63	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23012	1@0	21.03	21.02	0.126	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23012	1@11	23.01	23.00	0.200	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23012	3@3	23.43	23.42	0.220	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	22.9	22.89	0.195	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	22.91	22.90	0.195	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	3@3	23.47	23.46	0.222	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23178	1@0	23.02	23.01	0.200	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23178	1@11	22.95	22.94	0.197	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23178	3@3	23.33	23.32	0.215	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	6.66	6.65	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	6.59	6.58	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	3@3	6.65	6.64	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@0	6.66	6.65	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@11	6.61	6.60	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	3@3	6.63	6.62	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	1@0	21.24	21.23	0.133	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	1@11	21.18	21.17	0.131	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	3@3	23.36	23.35	0.216	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	21.21	21.20	0.132	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	21.04	21.03	0.127	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	3@3	23.32	23.31	0.214	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	1@0	21.21	21.20	0.132	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	1@11	21.17	21.16	0.131	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	3@3	23.26	23.25	0.211	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@0	6.77	6.76	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@11	6.7	6.69	0.005	3	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	3@3	6.65	6.64	0.005	3	PASS

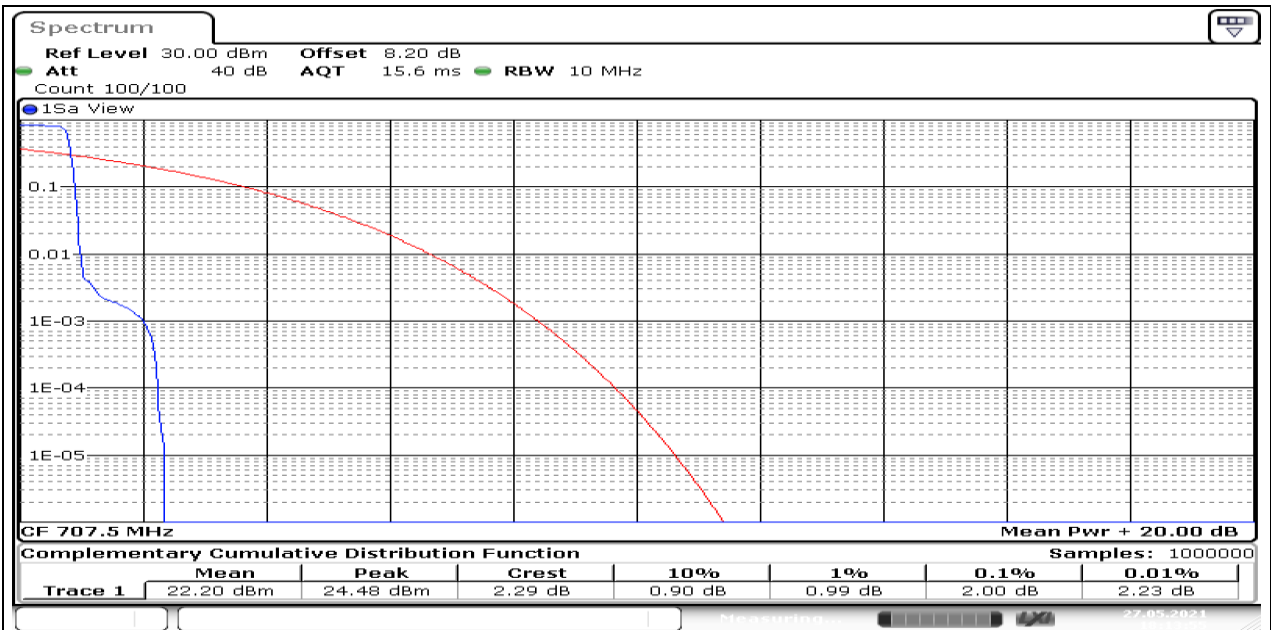
## APPENDIX D.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR NB-IOT

### Test Result

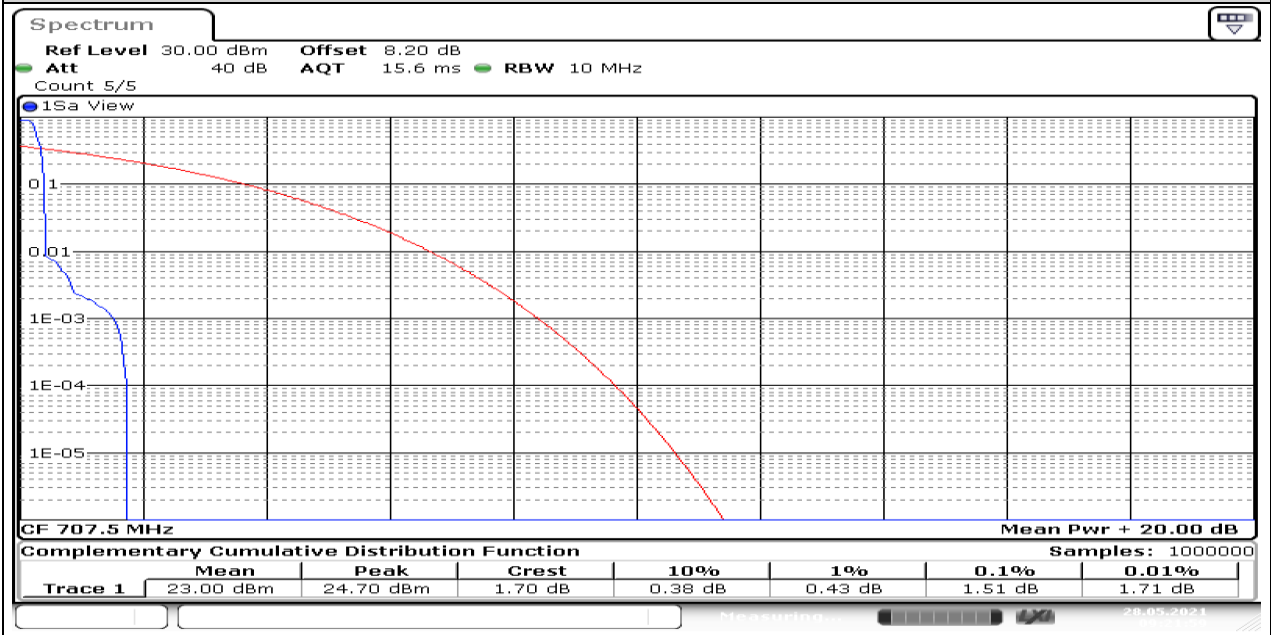
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	8.35	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@47	2.17	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	2	<=13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	1.51	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	7.39	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	3.94	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	3@3	9.28	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	4.29	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	9.13	<=13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	3@3	9.39	<=13	PASS

### Test Graphs

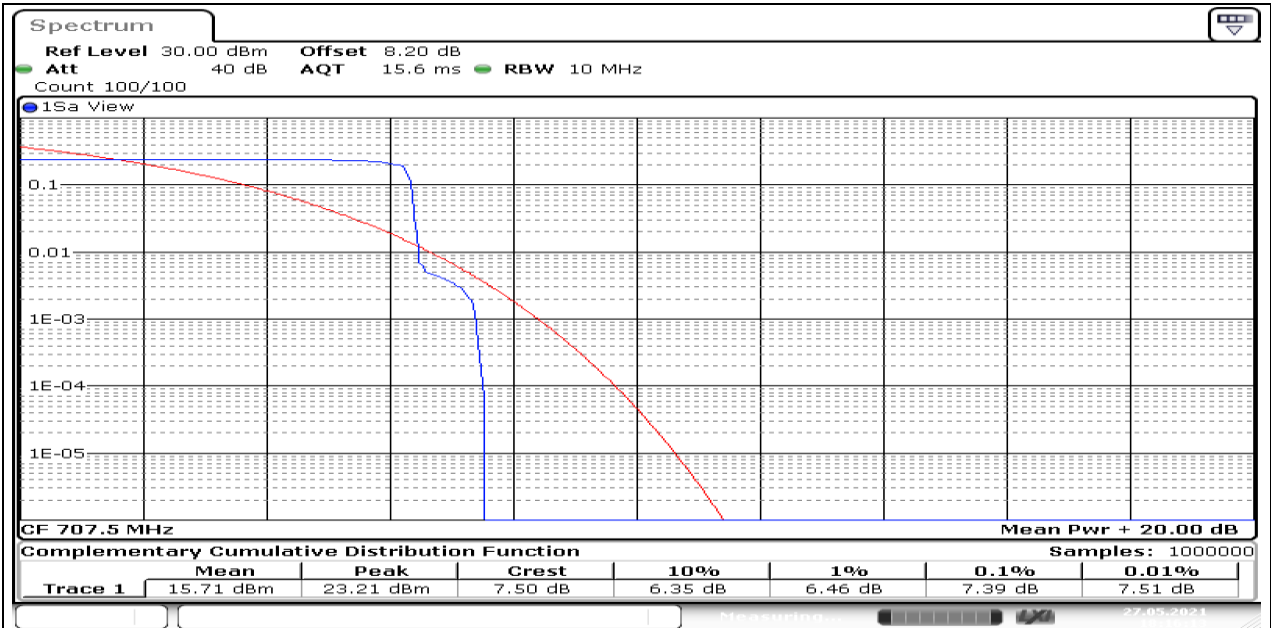




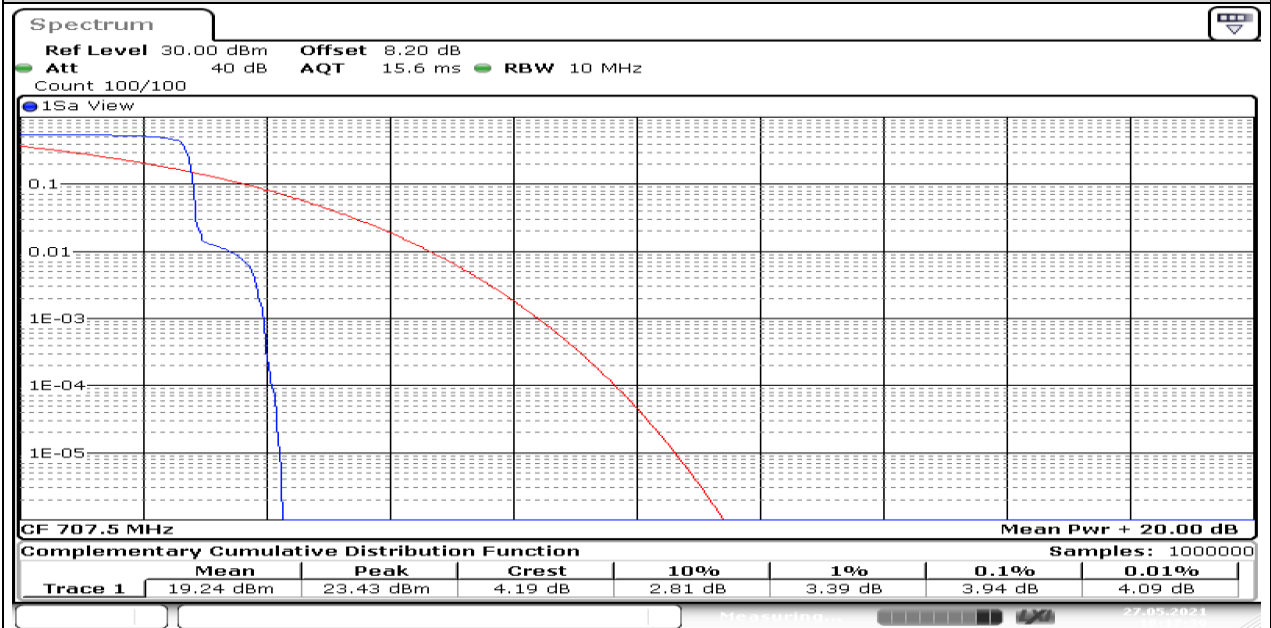
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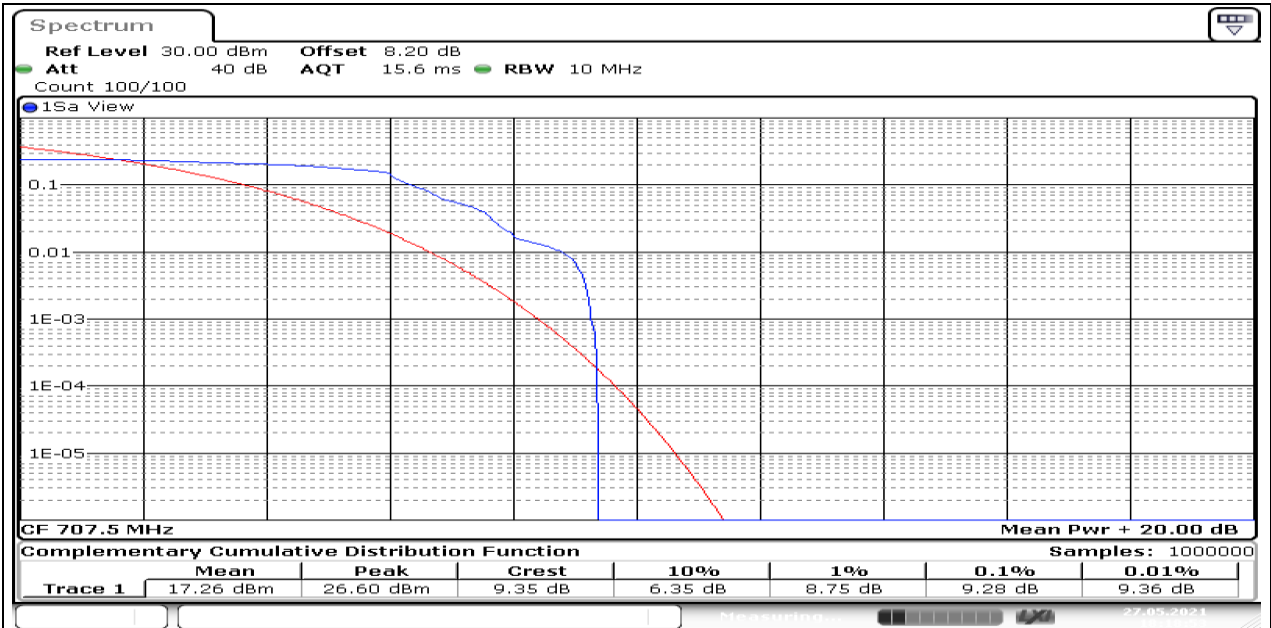
Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-7.39-<=13-PASS



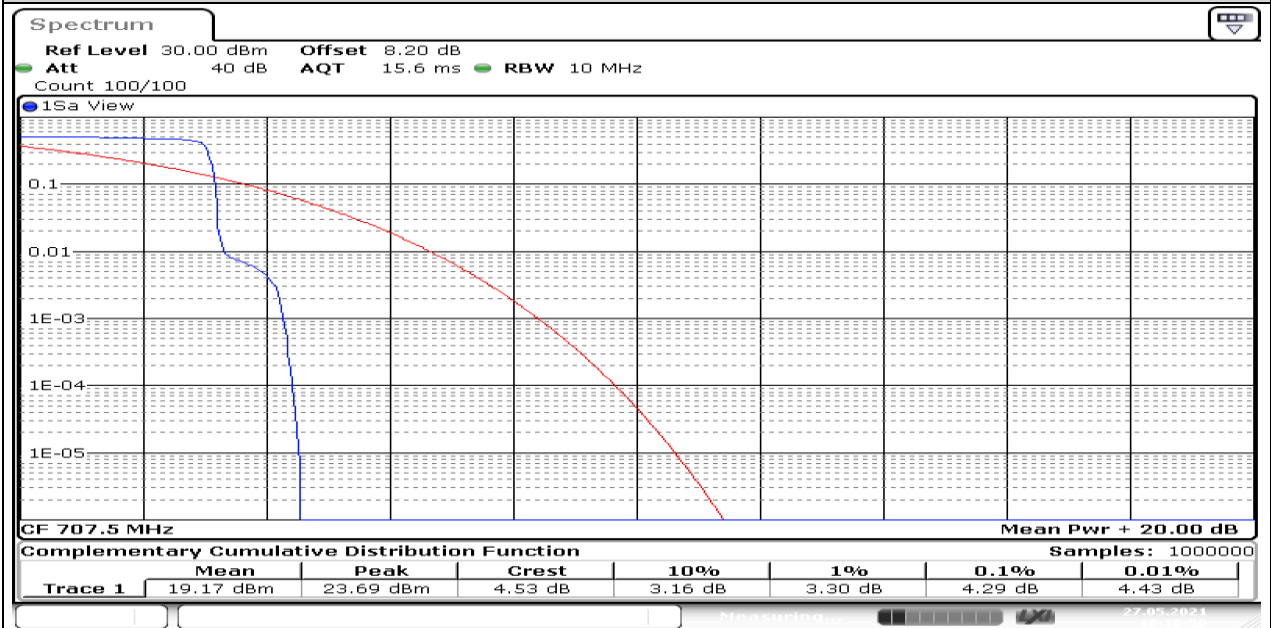
Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-3.94-<=13-PASS



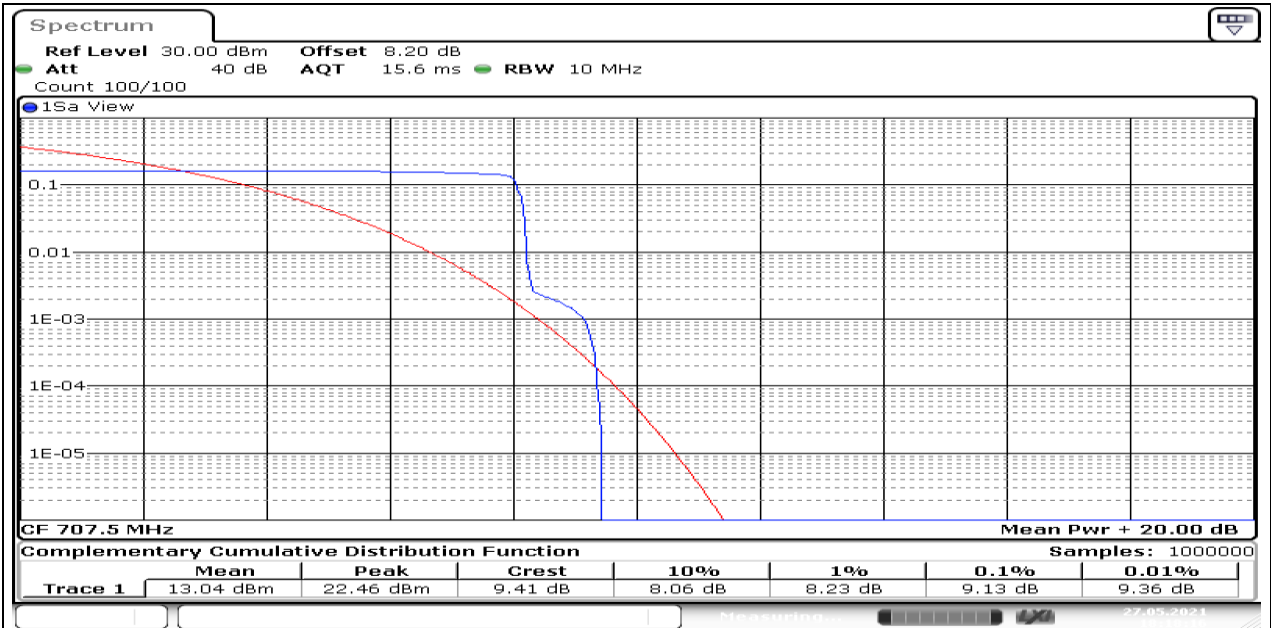
Band12-Stand-Alone-NaN-BPSK-23095-3@3-15kHz-9.28-<=13-PASS



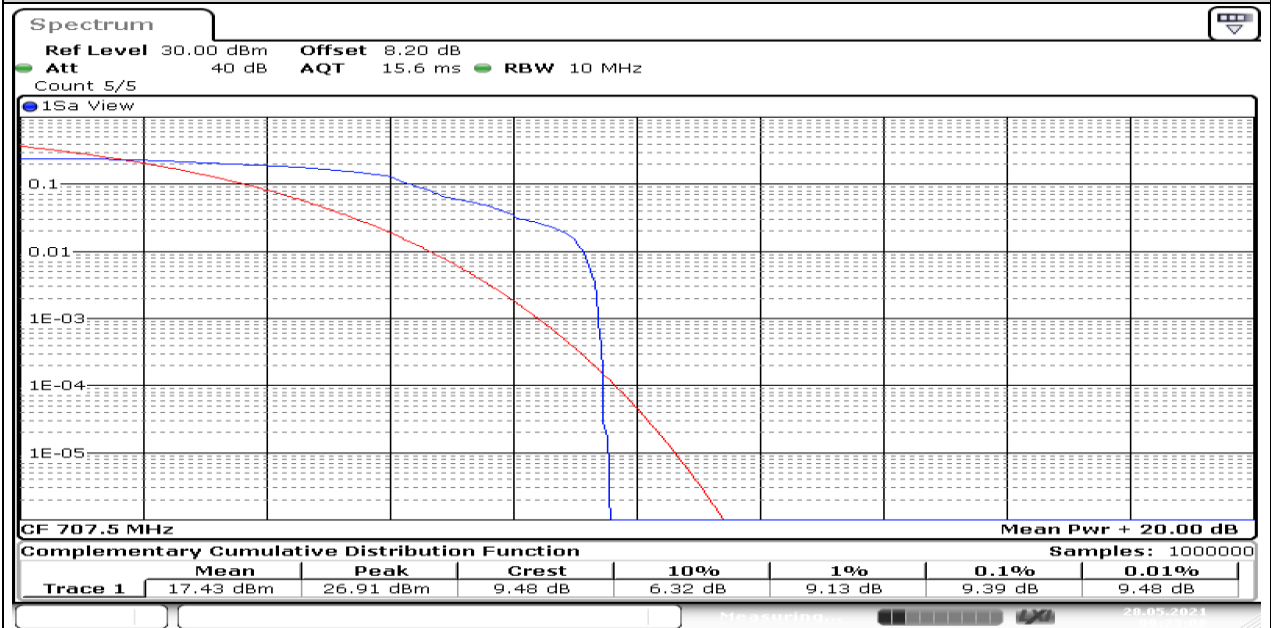
Band12-Stand-Alone-NaN-QPSK-23095-1@0-15kHz-4.29-<=13-PASS



Band12-Stand-Alone-NaN-QPSK-23095-1@11-15kHz-9.13-<=13-PASS



Band12-Stand-Alone-NaN-QPSK-23095-3@3-15kHz-9.39-<=13-PASS



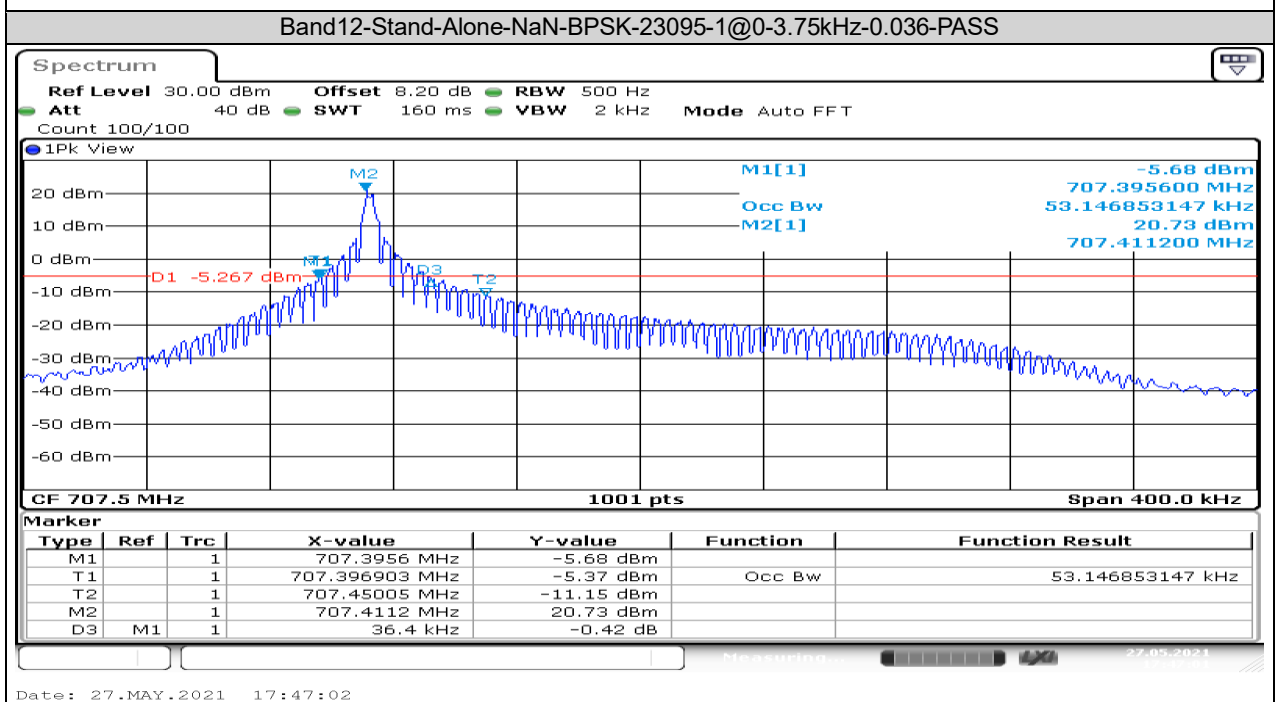
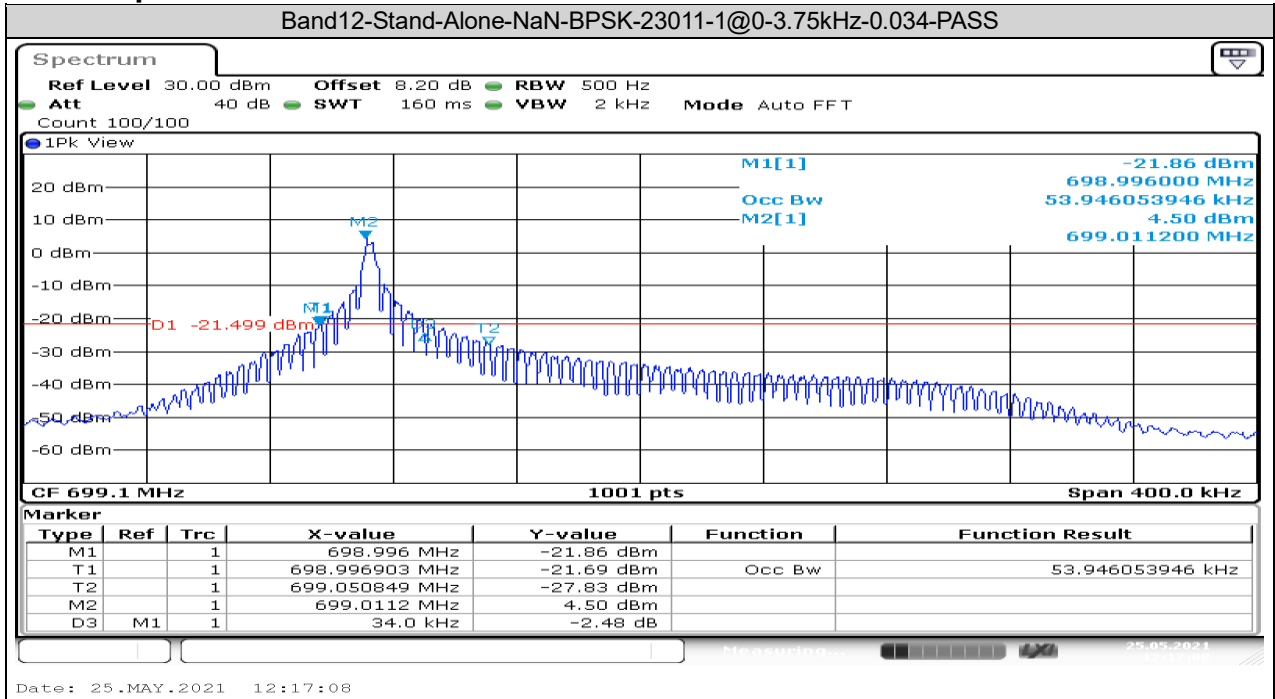


### APPENDIX D.3: EMISSION BANDWIDTH FOR NB-IOT

#### Test Result

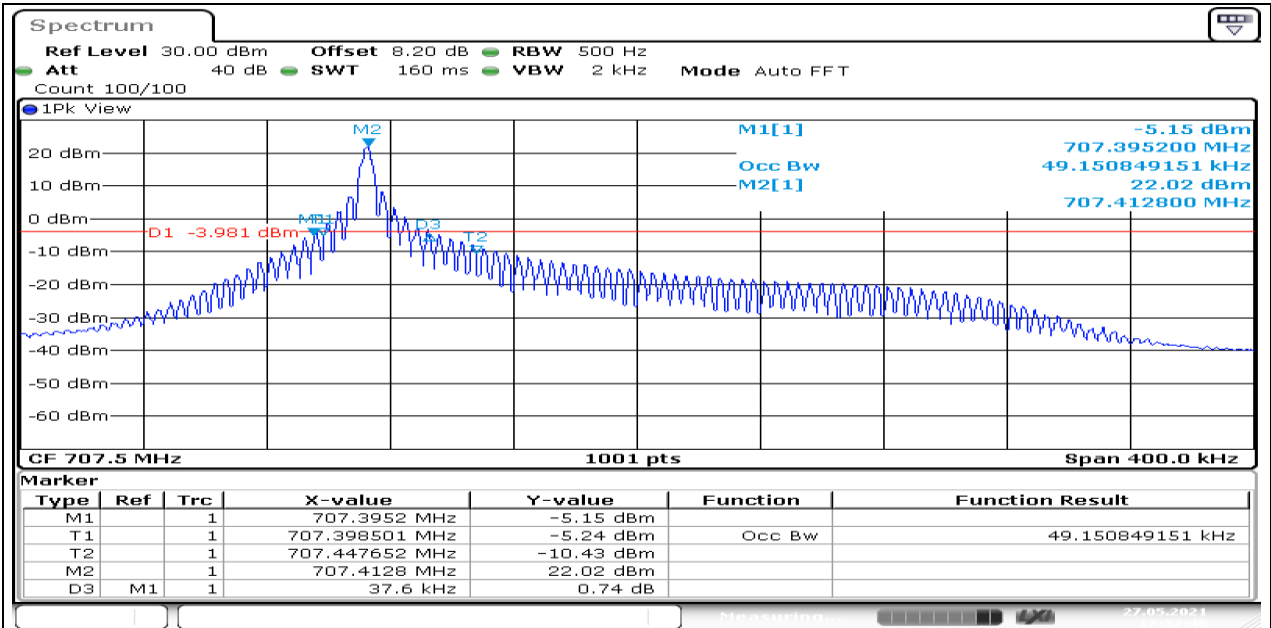
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)		Verdict
							26dB	99%	
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@0	0.034	0.054	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23095	1@0	0.036	0.053	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@0	0.034	0.054	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	0.037	0.048	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	0.038	0.049	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	0.037	0.048	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	0.106	0.127	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	0.106	0.124	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	0.106	0.127	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@0	0.117	0.119	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	0.250	0.184	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	0.117	0.119	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	0.250	0.184	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@0	0.117	0.119	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	0.250	0.184	PASS

### Test Graphs

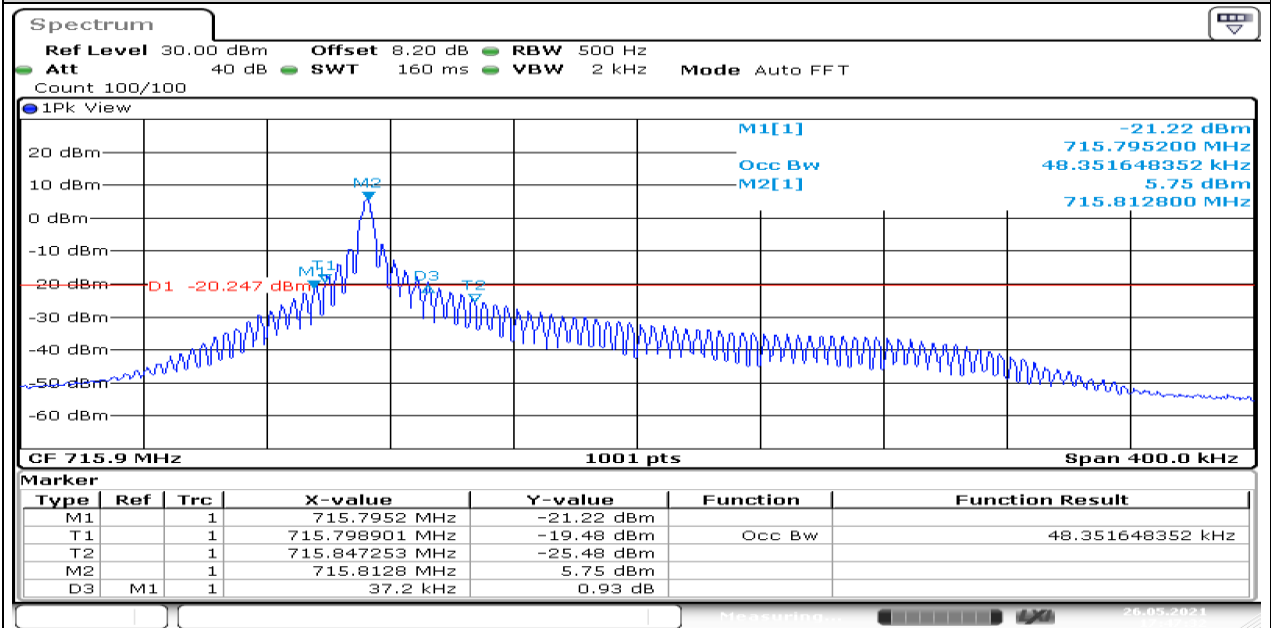


**Band12-Stand-Alone-NaN-BPSK-23179-1@0-3.75kHz-0.034-PASS**



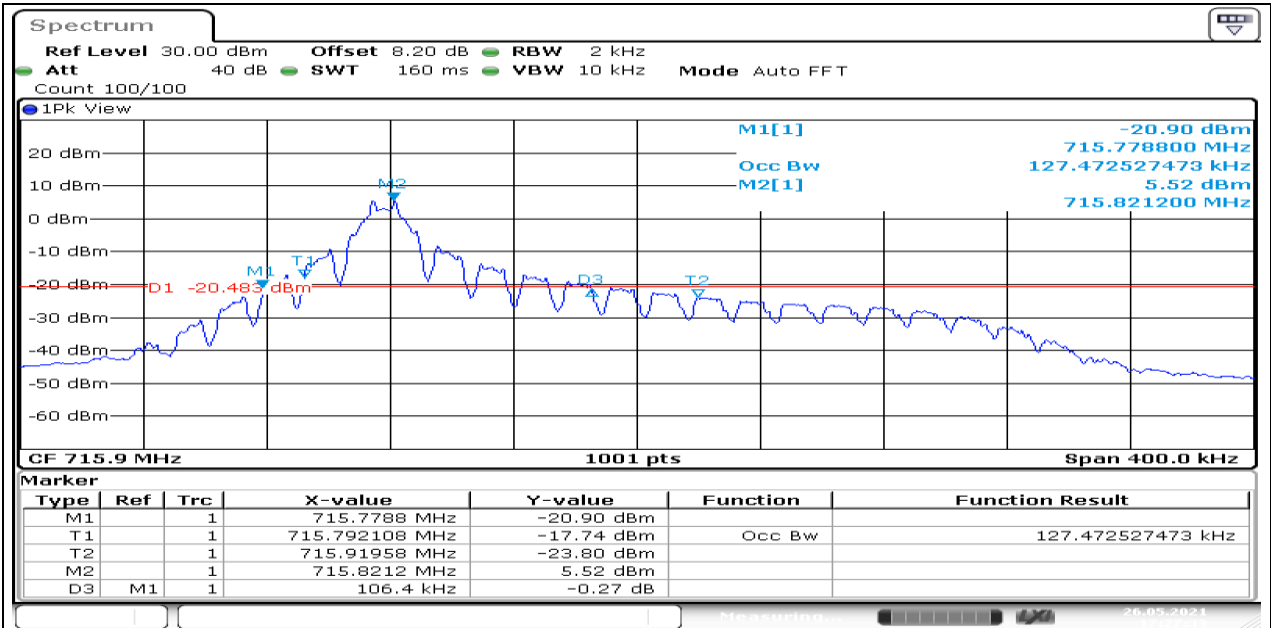


Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-0.037-PASS

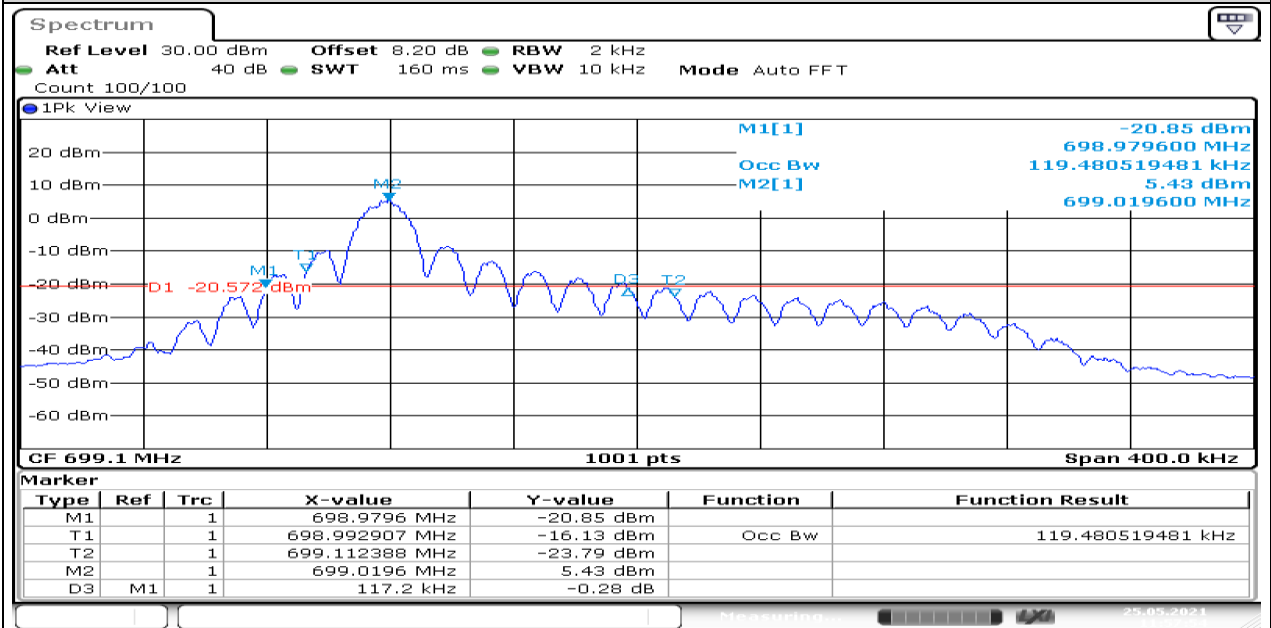


Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-0.106-PASS



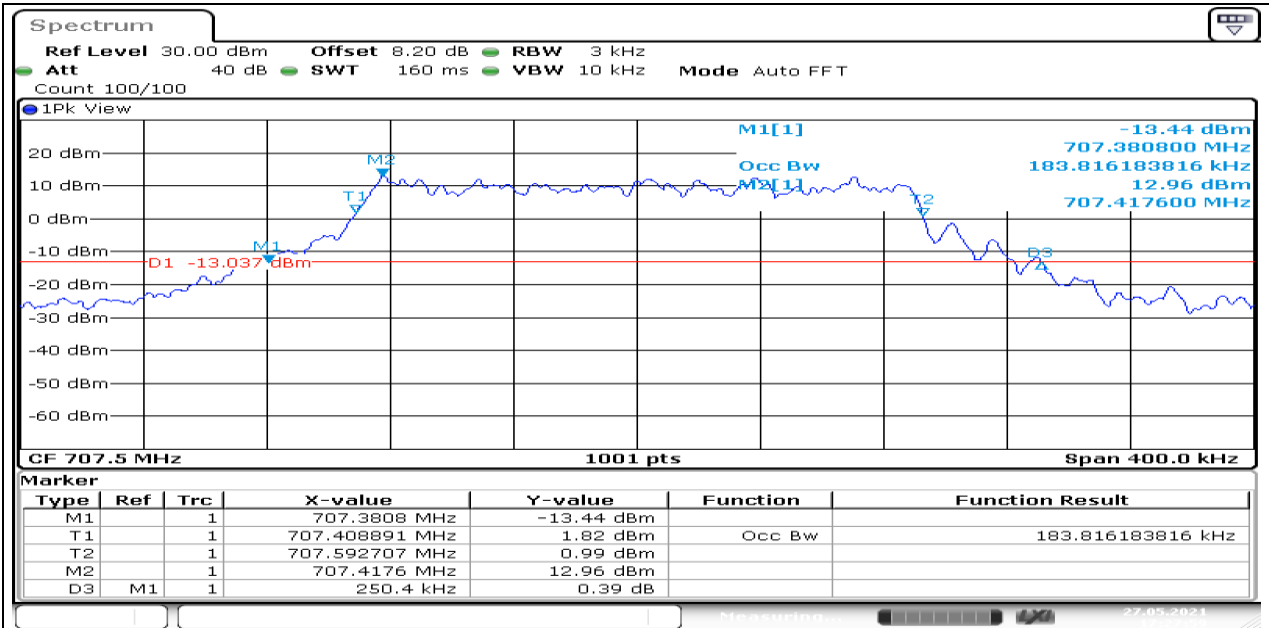


Band12-Stand-Alone-NaN-QPSK-23011-1@0-15kHz-0.117-PASS



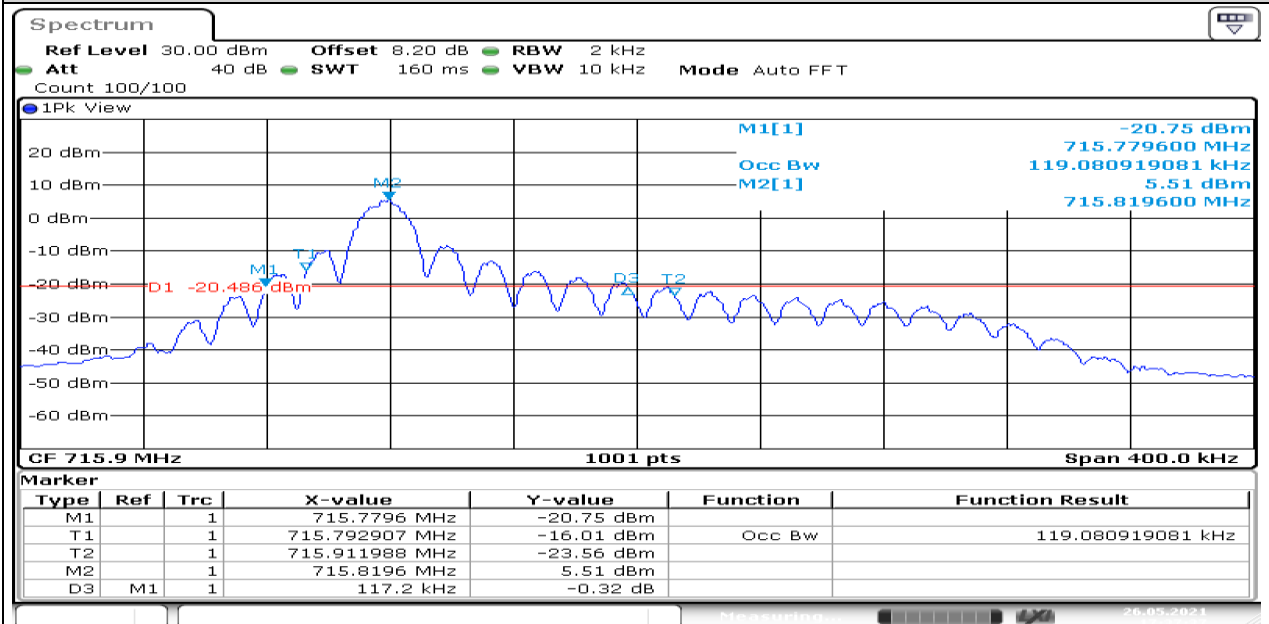
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-0.250-PASS





Date: 27.MAY.2021 17:27:59

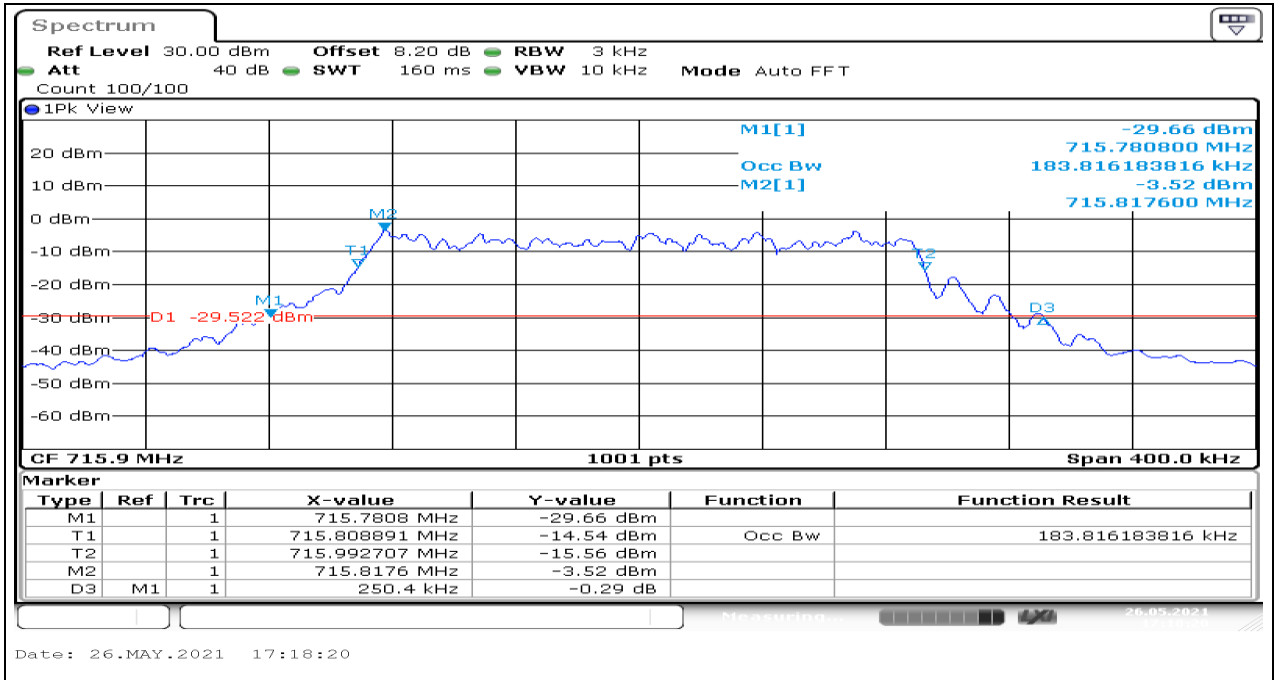
Band12-Stand-Alone-NaN-QPSK-23179-1@0-15kHz-0.117-PASS



Date: 26.MAY.2021 17:37:37

Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-0.250-PASS



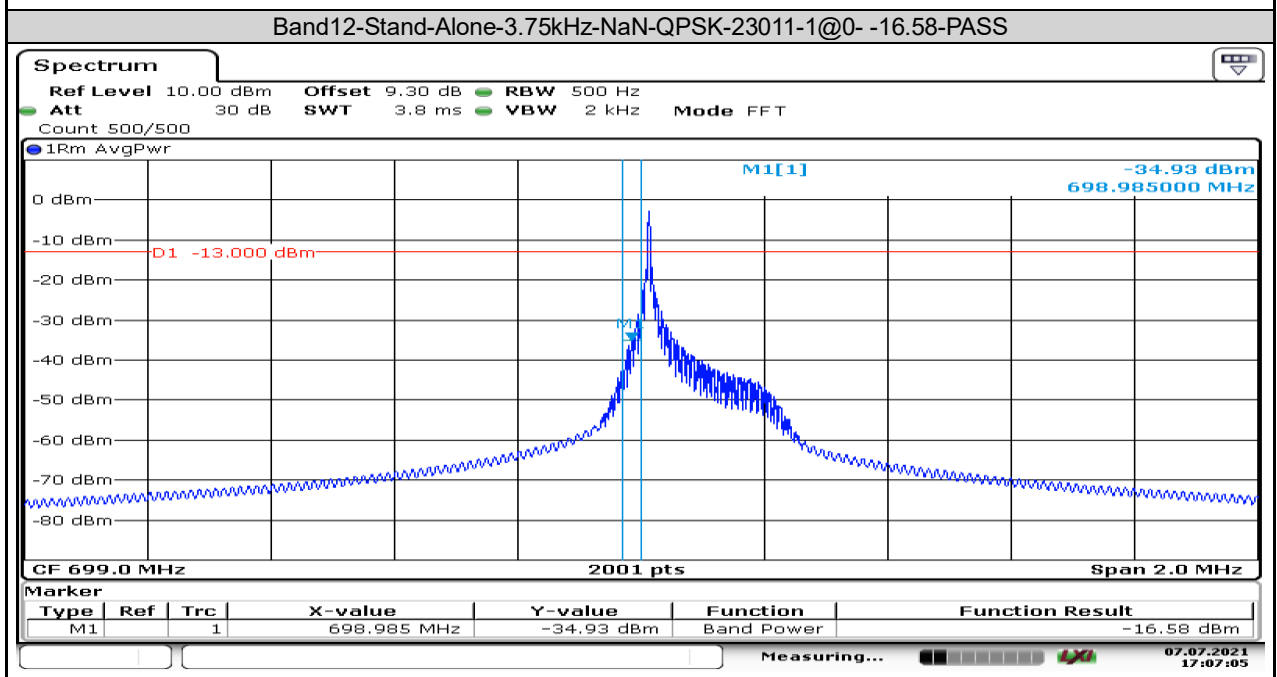
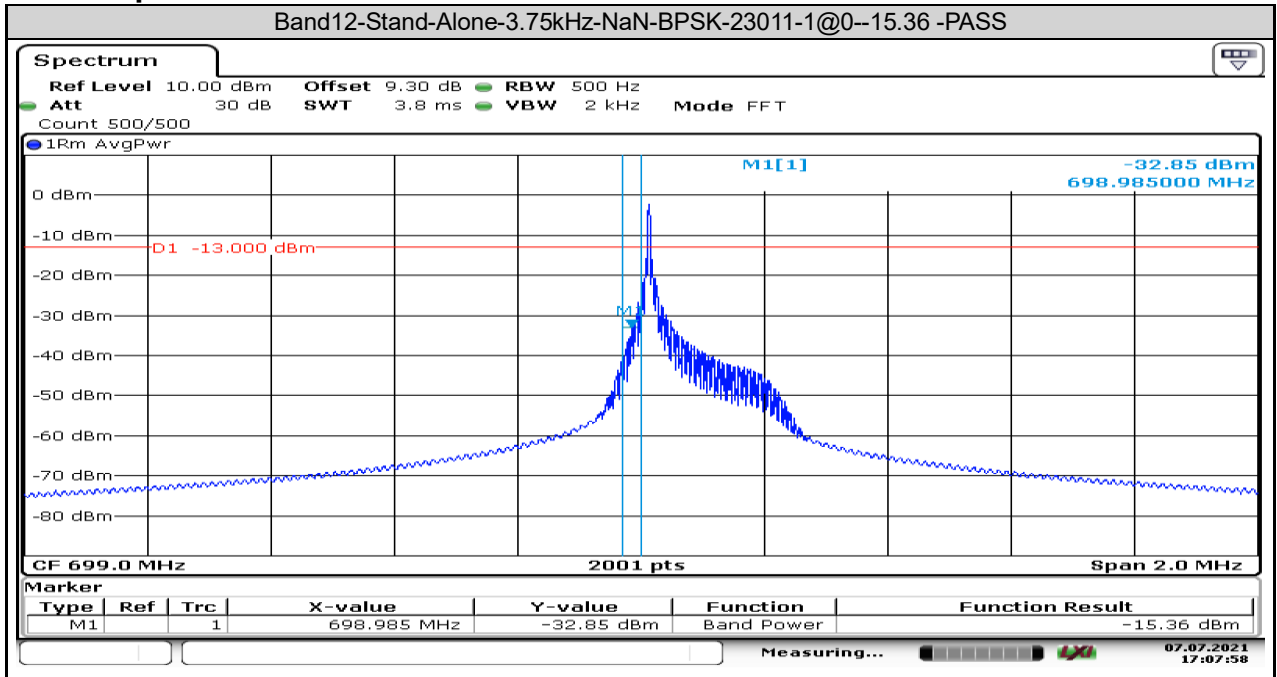


## APPENDIX D.4: BAND EDGE FOR NB-IOT

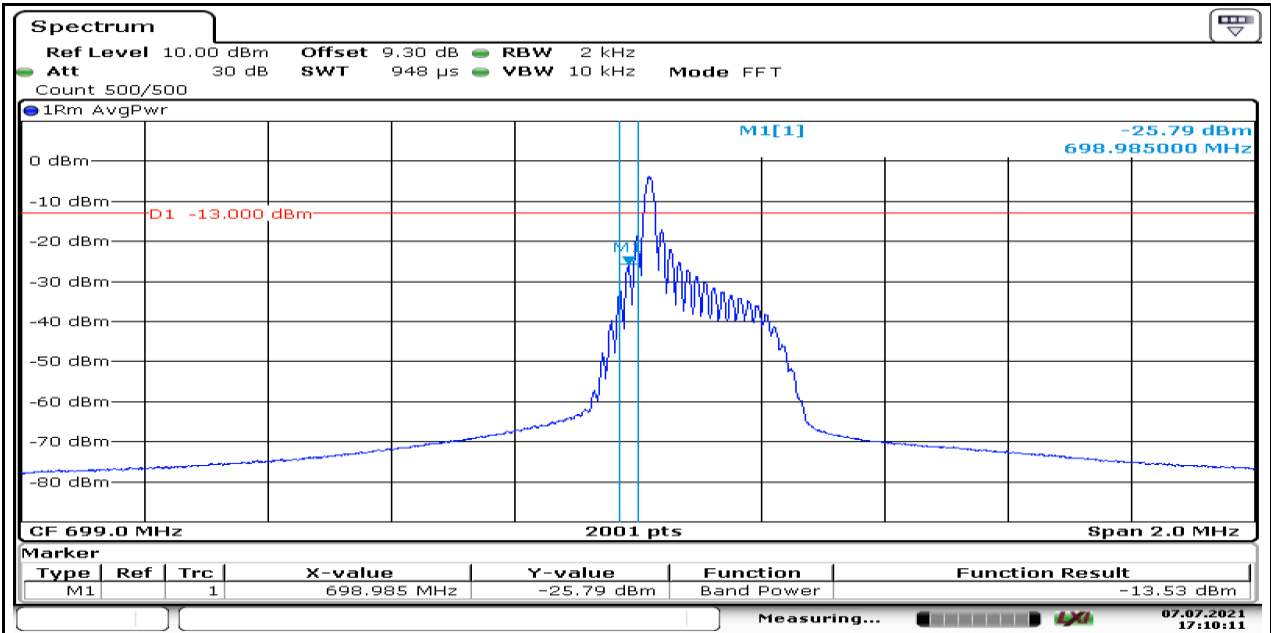
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@0	-15.36	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	-16.58	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	-13.53	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@0	-15.35	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	-25.96	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	1@11	-28.28	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23011	1@47	-29.02	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	-29.81	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	-20.85	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@0	-30.45	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	-31.47	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	-26.68	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@0	-28.37	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	-13.63	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	1@11	-14.84	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23179	1@47	-15.10	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	-16.29	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	-20.03	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23012	1@0	-22.09	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23012	1@0	-24.06	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23012	1@0	-37.05	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	1@0	-41.40	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23012	1@11	-34.14	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	1@11	-33.52	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23012	1@47	-28.26	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23012	1@47	-28.91	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23012	12@0	-32.56	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23178	1@0	-28.32	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23178	1@0	-30.52	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23178	1@0	-41.59	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	1@0	-40.42	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23178	1@11	-35.33	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	1@11	-39.91	PASS
Band12	Stand-Alone	3.75kHz	NaN	BPSK	23178	1@47	-22.57	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23178	1@47	-21.42	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23178	12@0	-34.95	PASS

### Test Graphs

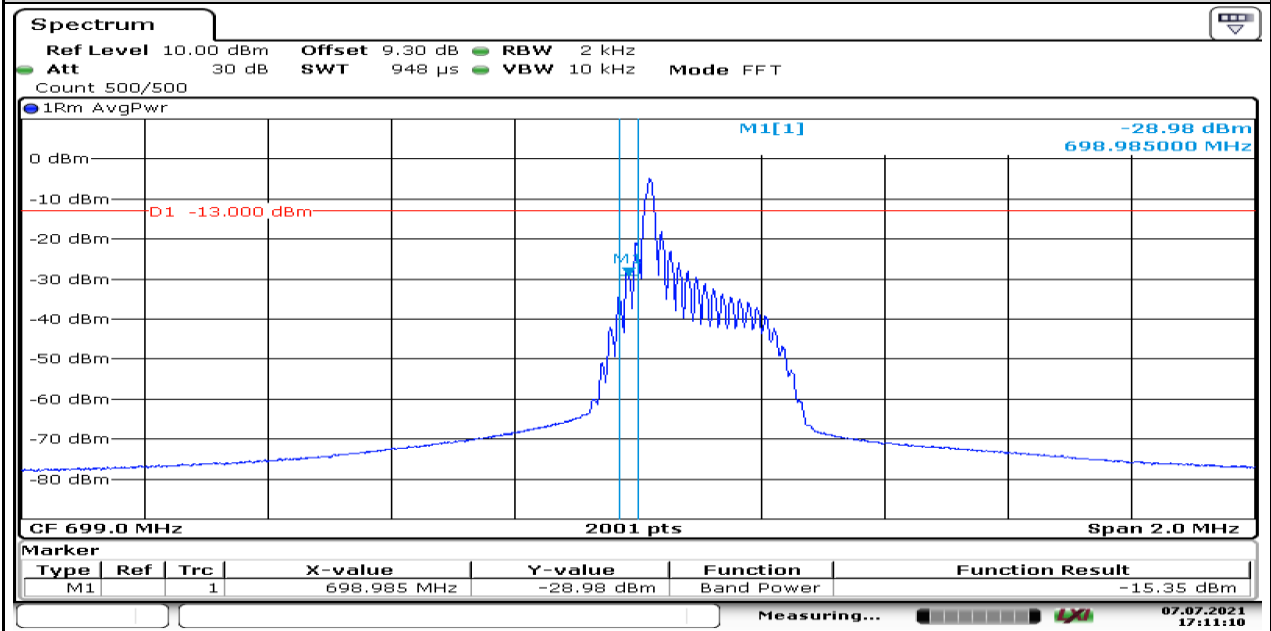


Band12-Stand-Alone-15kHz-NaN-BPSK-23011-1@0- -13.53-PASS



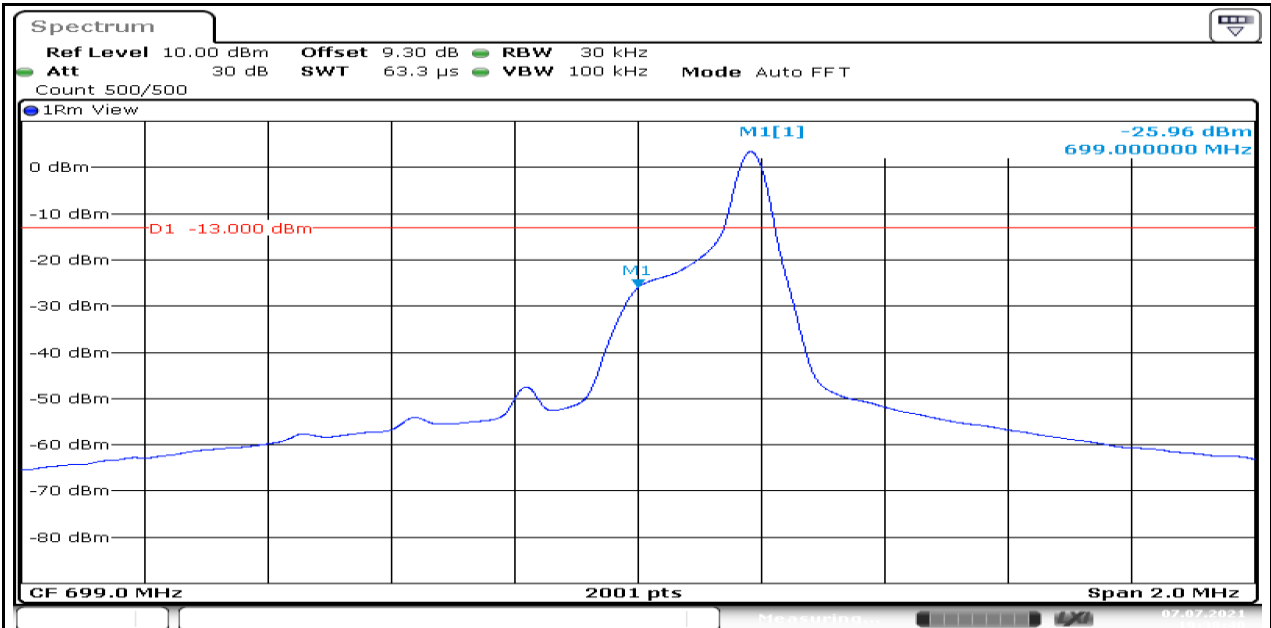
Date: 7.JUL.2021 17:10:11

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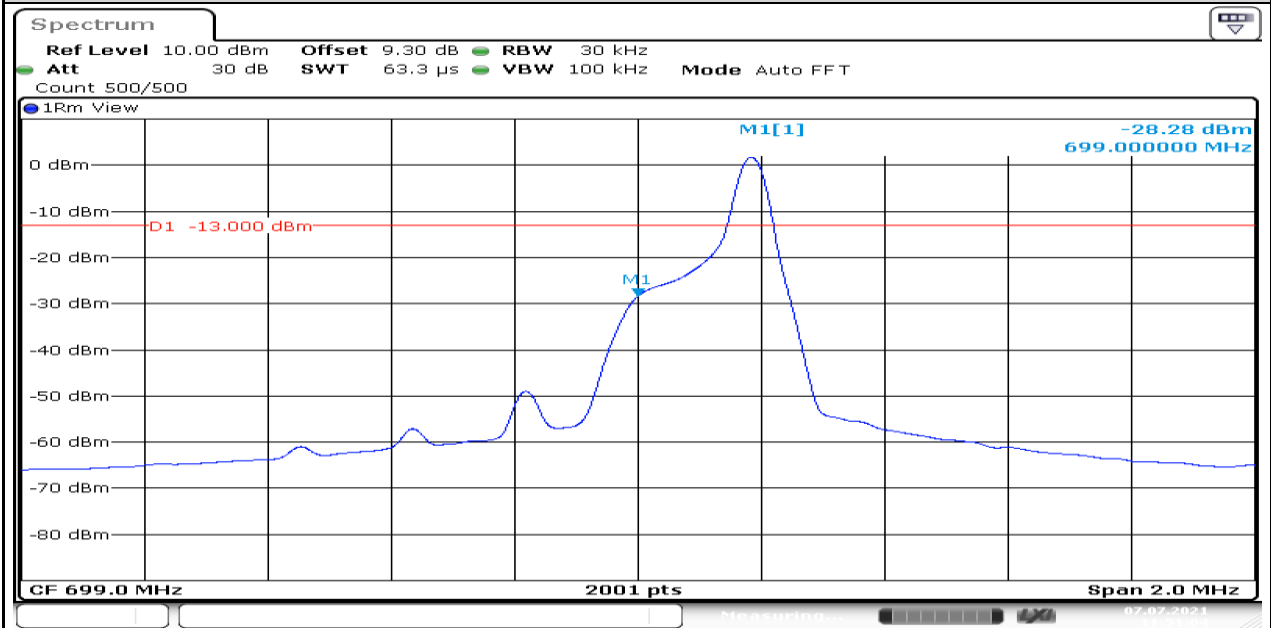


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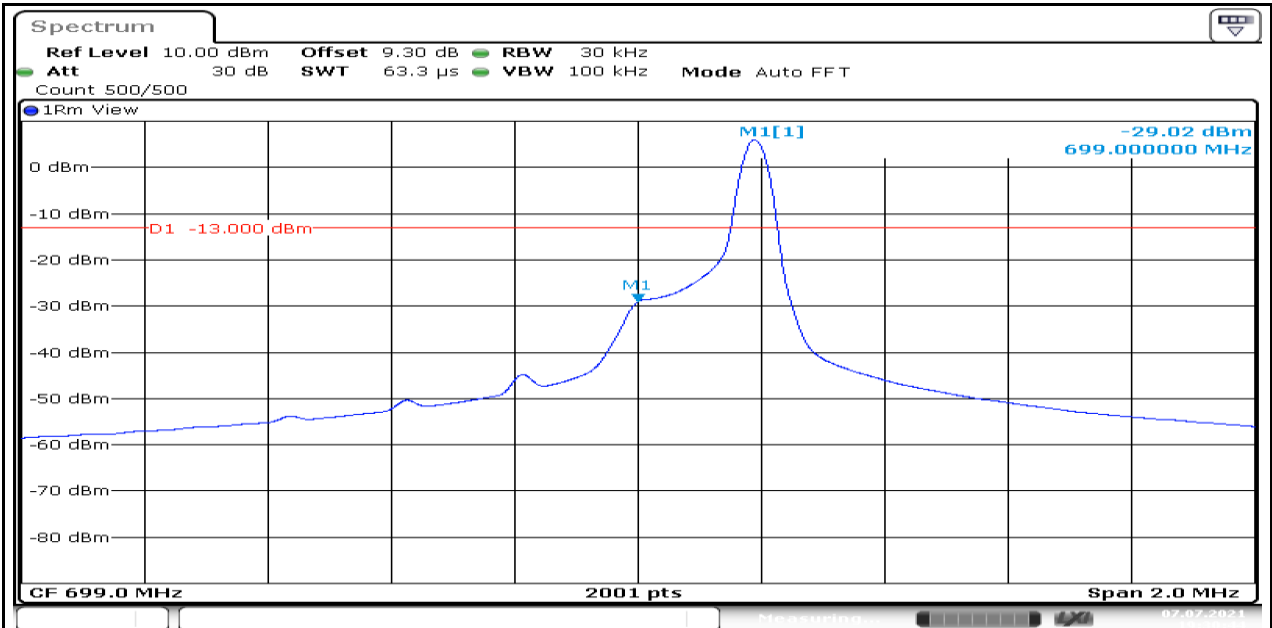
Band12-Stand-Alone-15kHz-NaN-BPSK-23011-1@11- -25.96-PASS



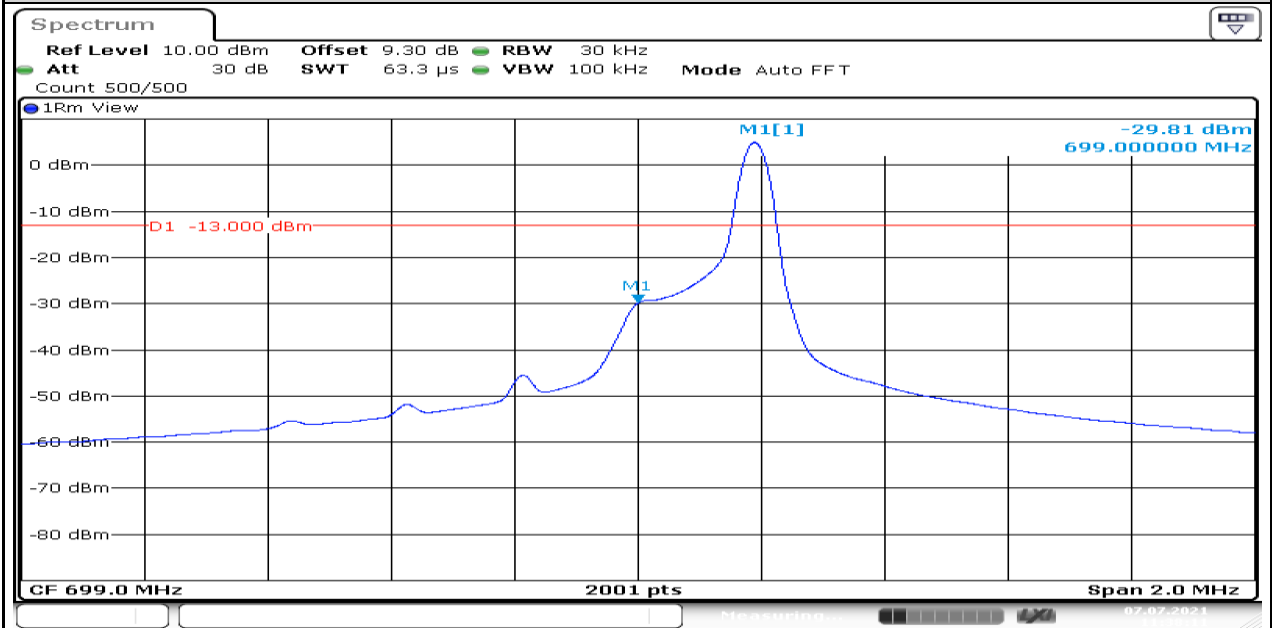
Band12-Stand-Alone-15kHz-NaN-QPSK-23011-1@11- -28.28-PASS



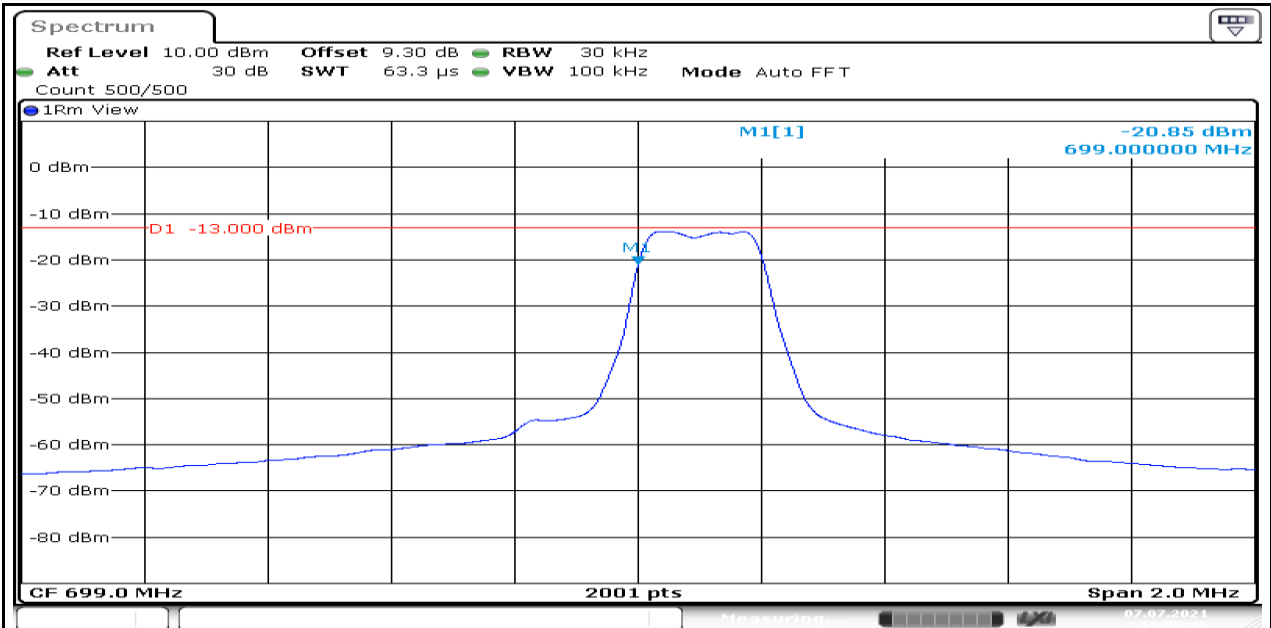
Band12-Stand-Alone-3.75kHz-NaN-BPSK-23011-1@47- -29.02-PASS



Band12-Stand-Alone-3.75kHz-NaN-QPSK-23011-1@47--29.81-PASS

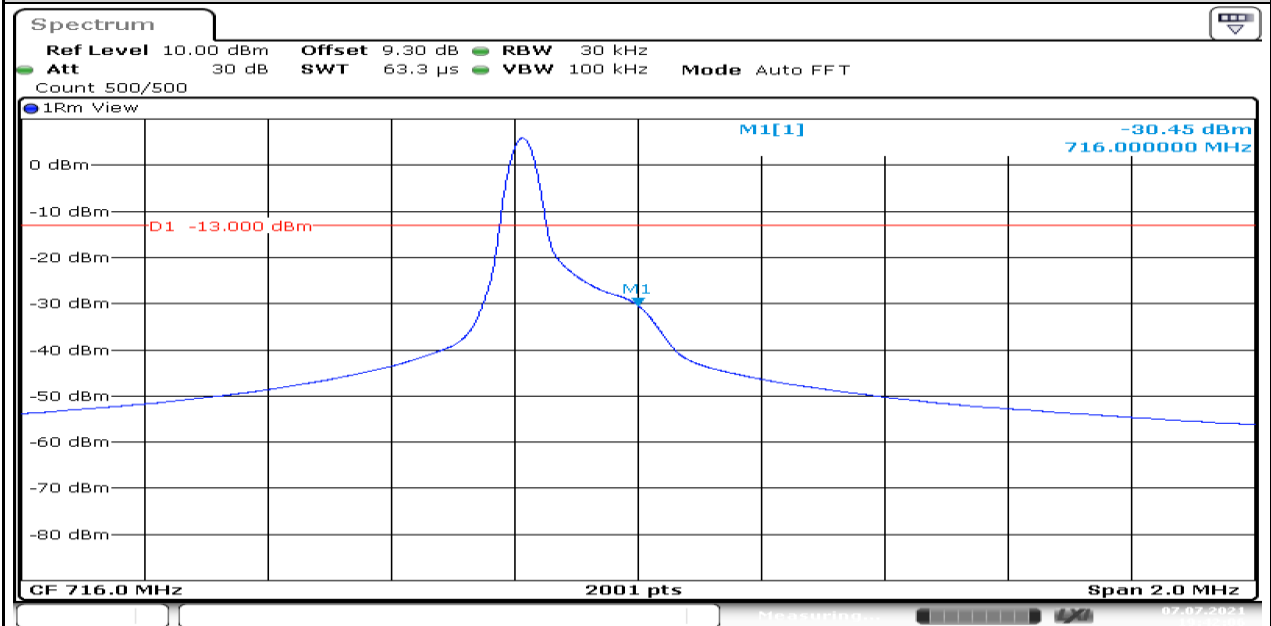


Band12-Stand-Alone-15kHz-NaN-QPSK-23011-12@0- -20.85-PASS



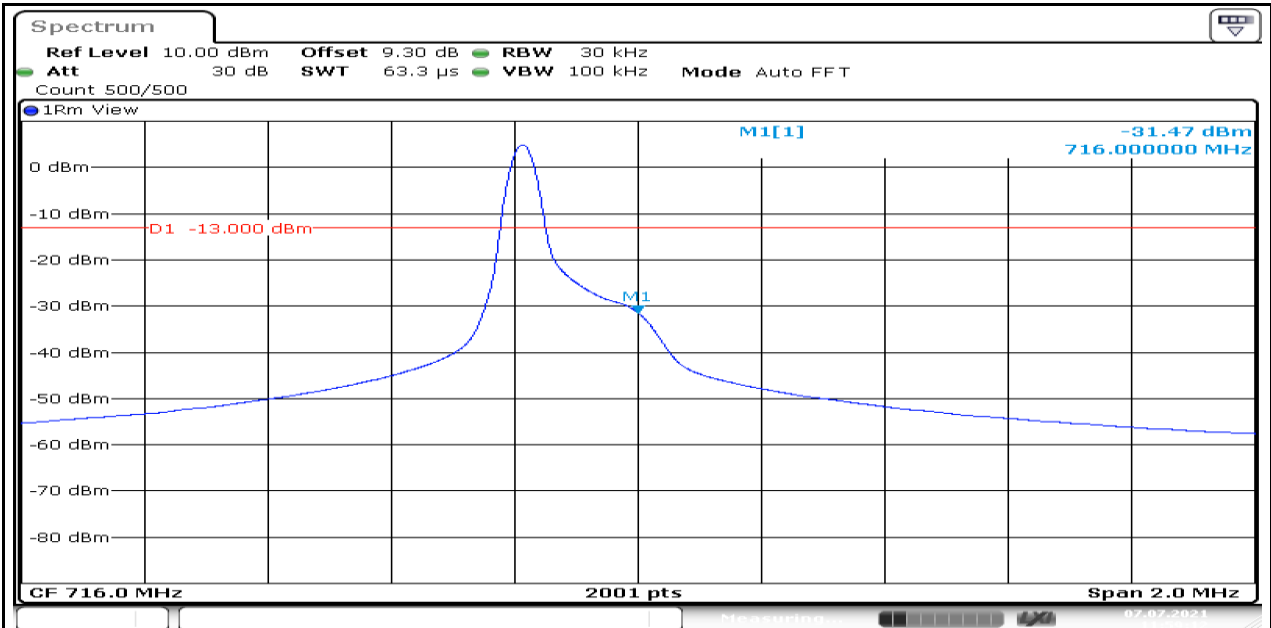
Date: 7.JUL.2021 11:55:17

Band12-Stand-Alone-3.75kHz-NaN-BPSK-23179-1@0- -30.45-PASS



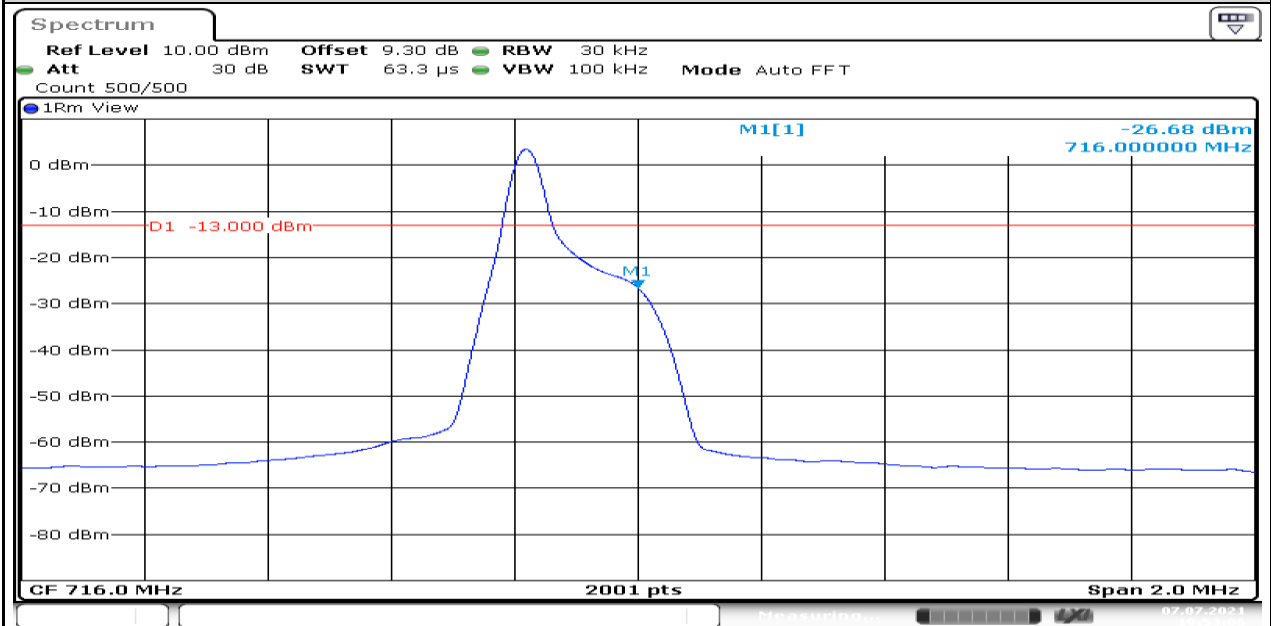
Date: 7.JUL.2021 19:42:06

Band12-Stand-Alone-3.75kHz-NaN-QPSK-23179-1@0- -31.47-PASS



Date: 7.JUL.2021 11:59:12

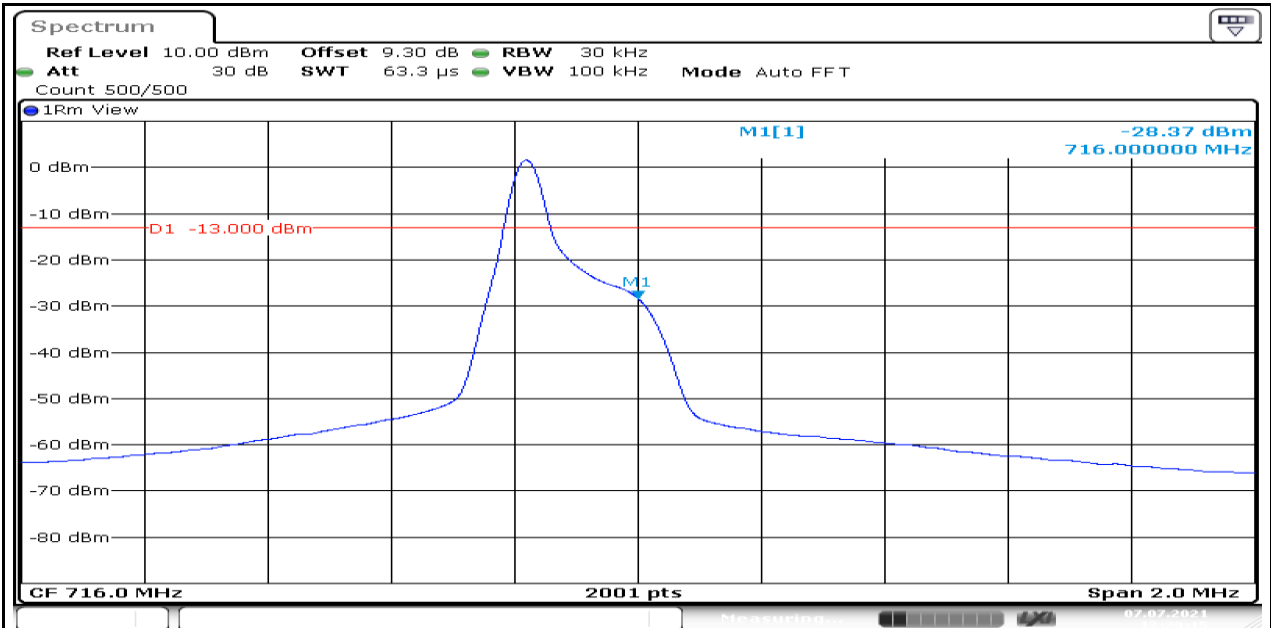
Band12-Stand-Alone-15kHz-NaN-BPSK-23179-1@0- -26.68-PASS



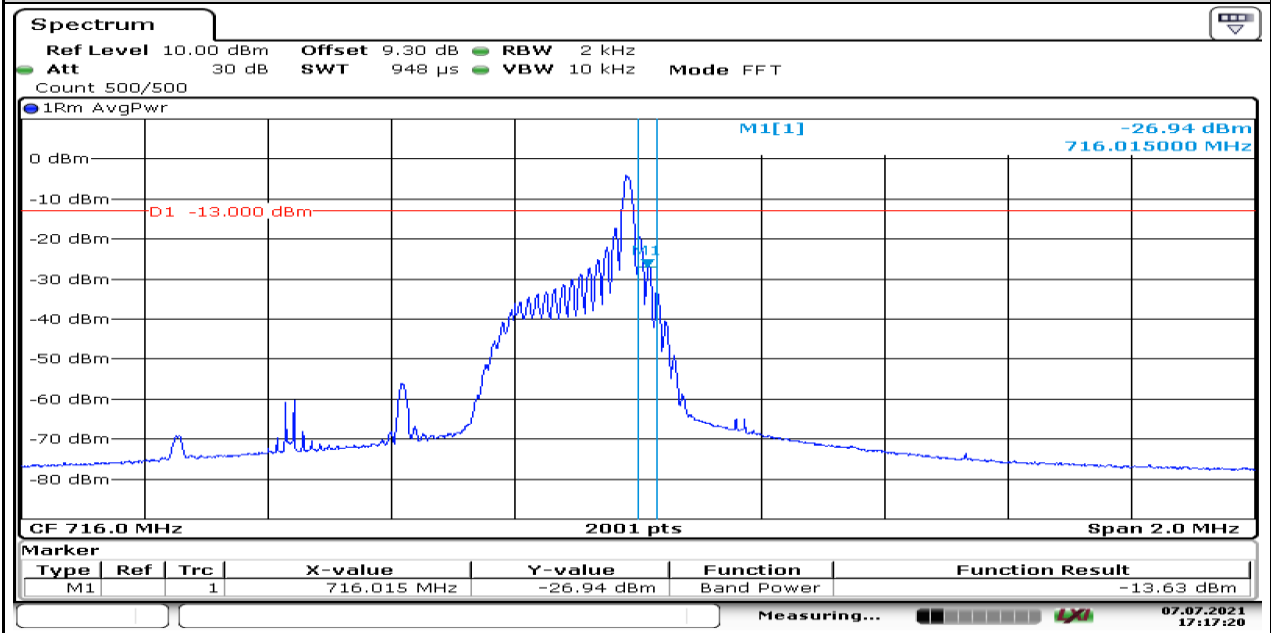
Date: 7.JUL.2021 19:53:06

Band12-Stand-Alone-15kHz-NaN-QPSK-23179-1@0- -28.37-PASS

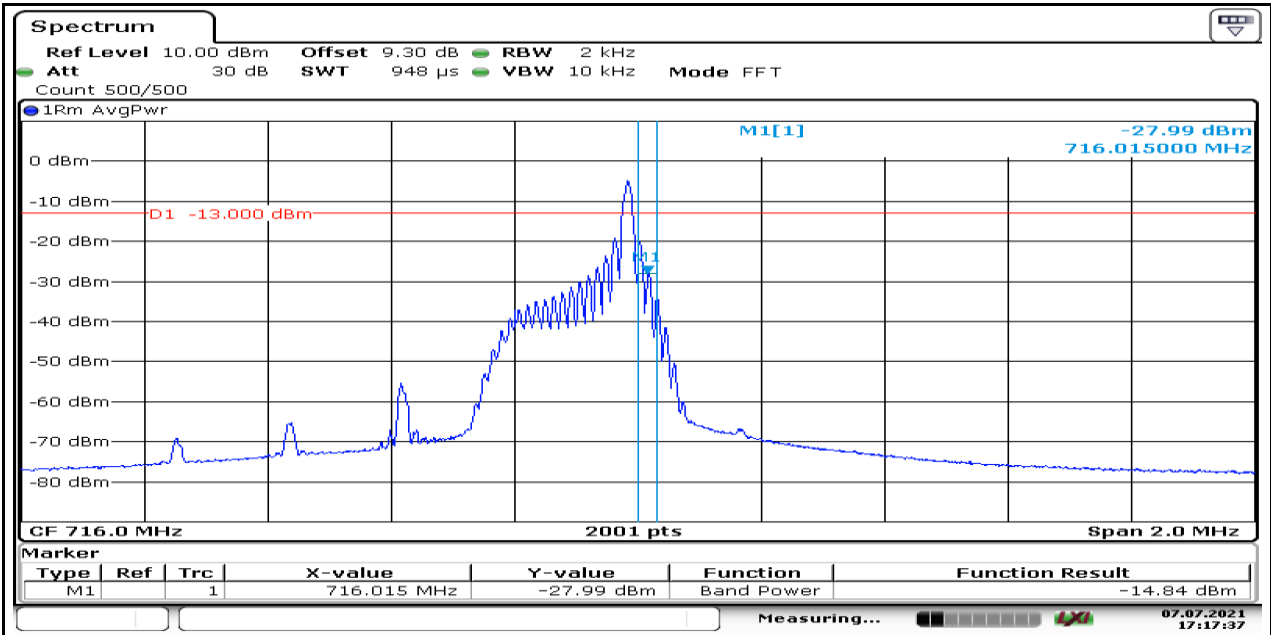




Band12-Stand-Alone-15kHz-NaN-BPSK-23179-1@11- -13.63-PASS

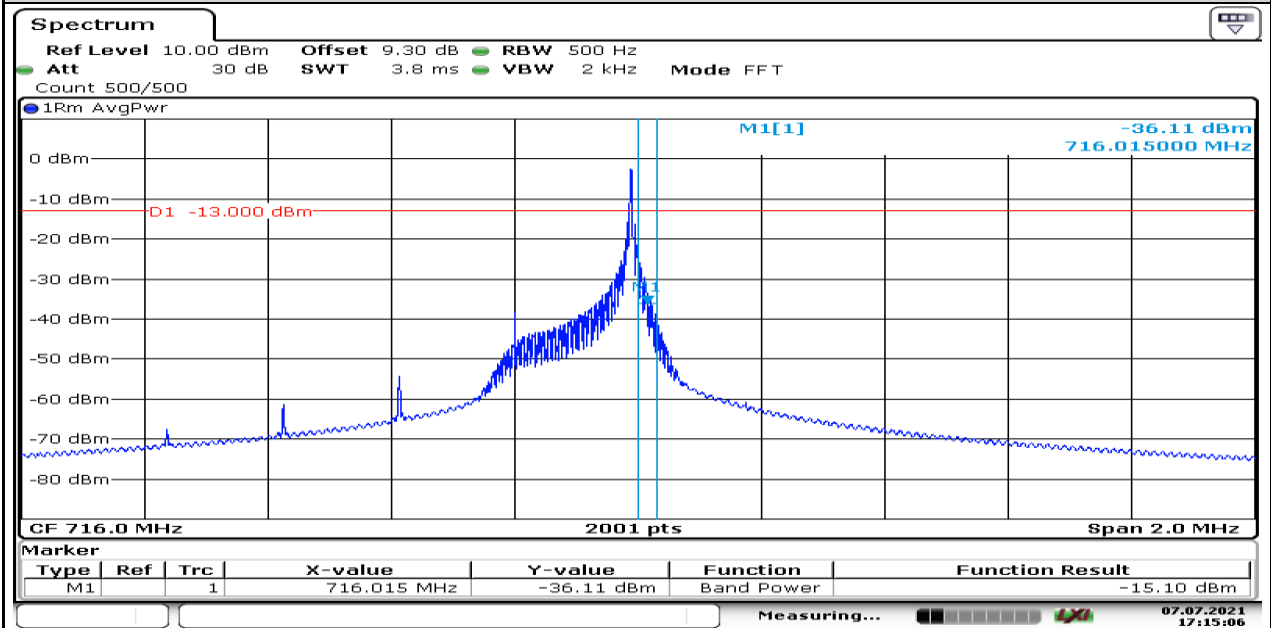


Band12-Stand-Alone-15kHz-NaN-QPSK-23179-1@11- -14.84-PASS



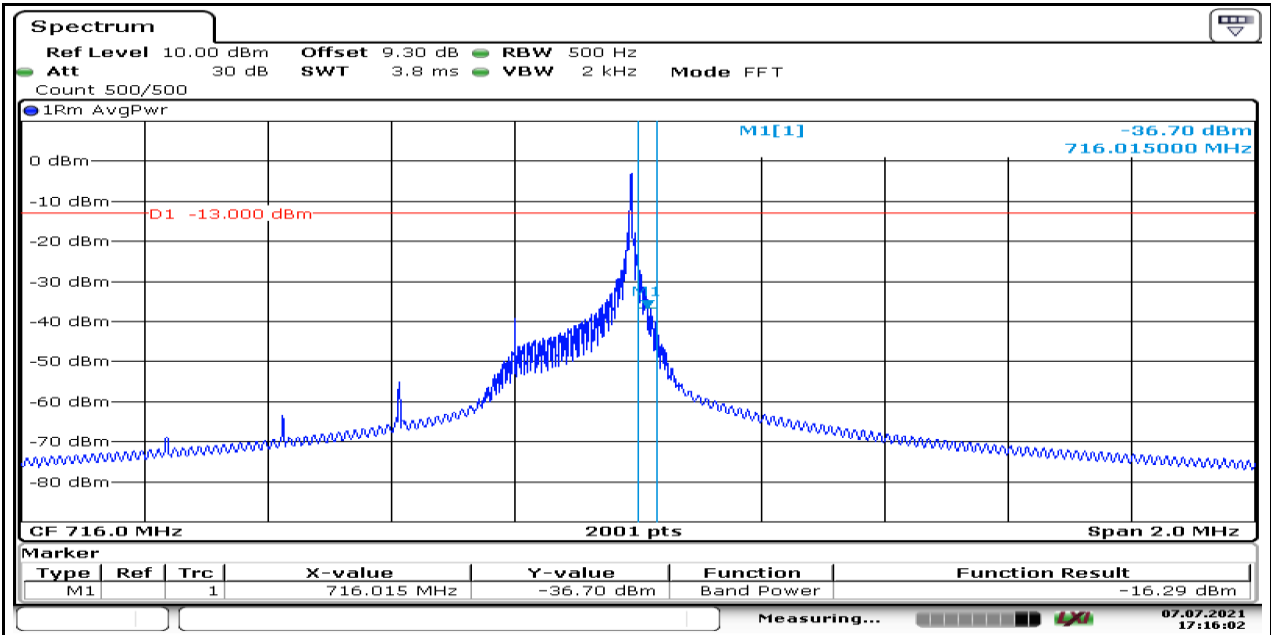
Date: 7.JUL.2021 17:17:38

Band12-Stand-Alone-3.75kHz-NaN-BPSK-23179-1@47- -15.10-PASS



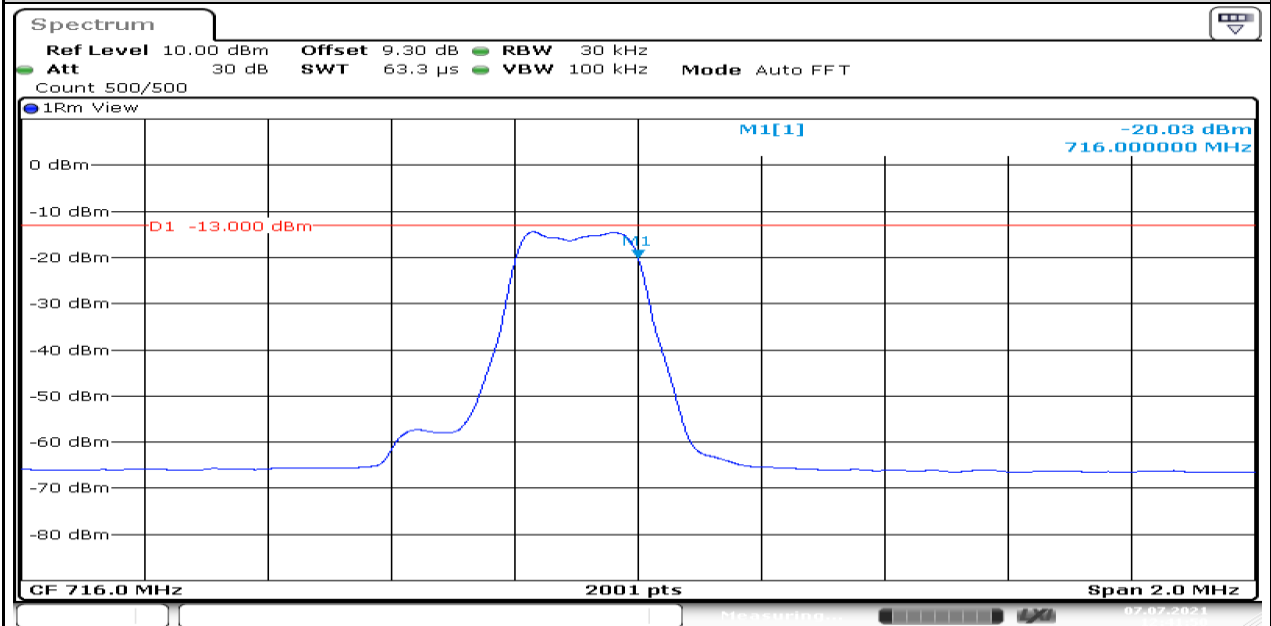
Date: 7.JUL.2021 17:15:07

Band12-Stand-Alone-3.75kHz-NaN-QPSK-23179-1@47- -16.29-PASS



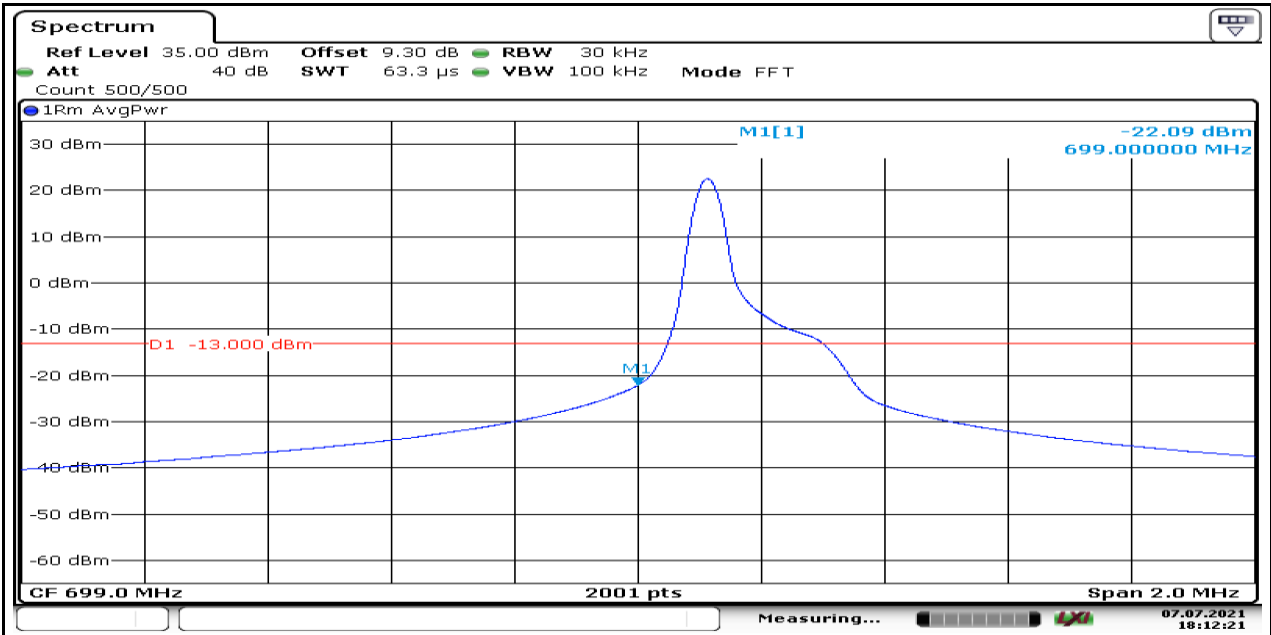
Date: 7.JUL.2021 17:16:03

Band12-Stand-Alone-15kHz-NaN-QPSK-23179-12@0- -20.03-PASS



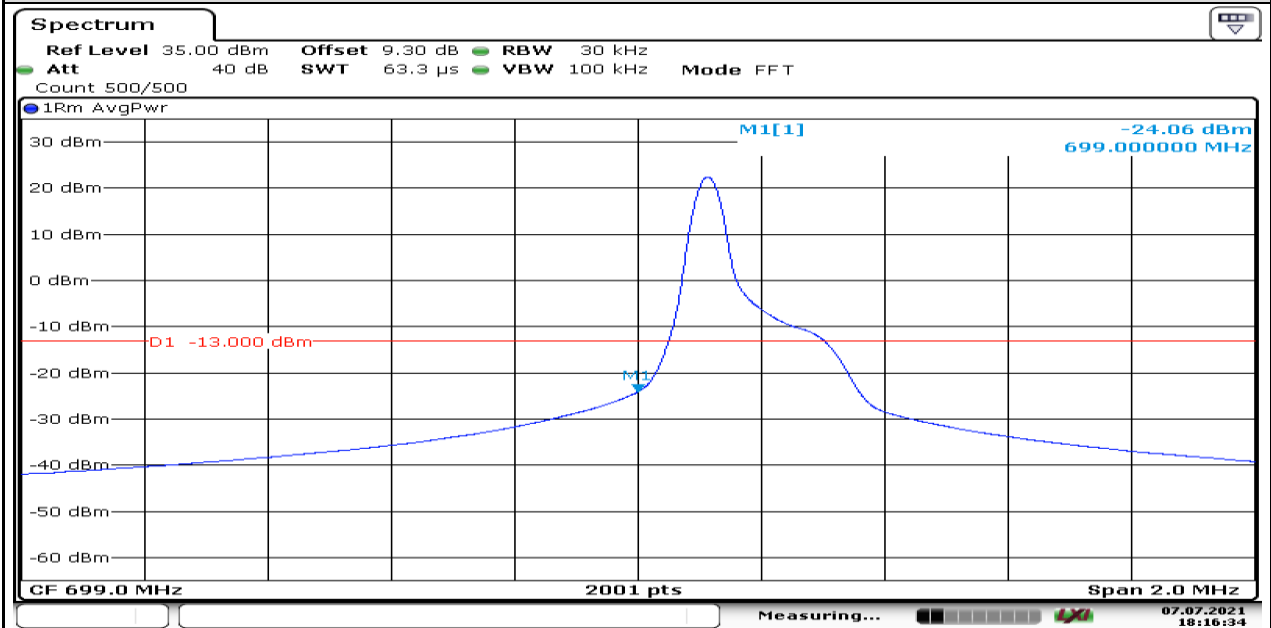
Date: 7.JUL.2021 12:41:51

Band12-Stand-Alone-3.75kHz-NaN-BPSK-23012-1@0--22.09-PASS



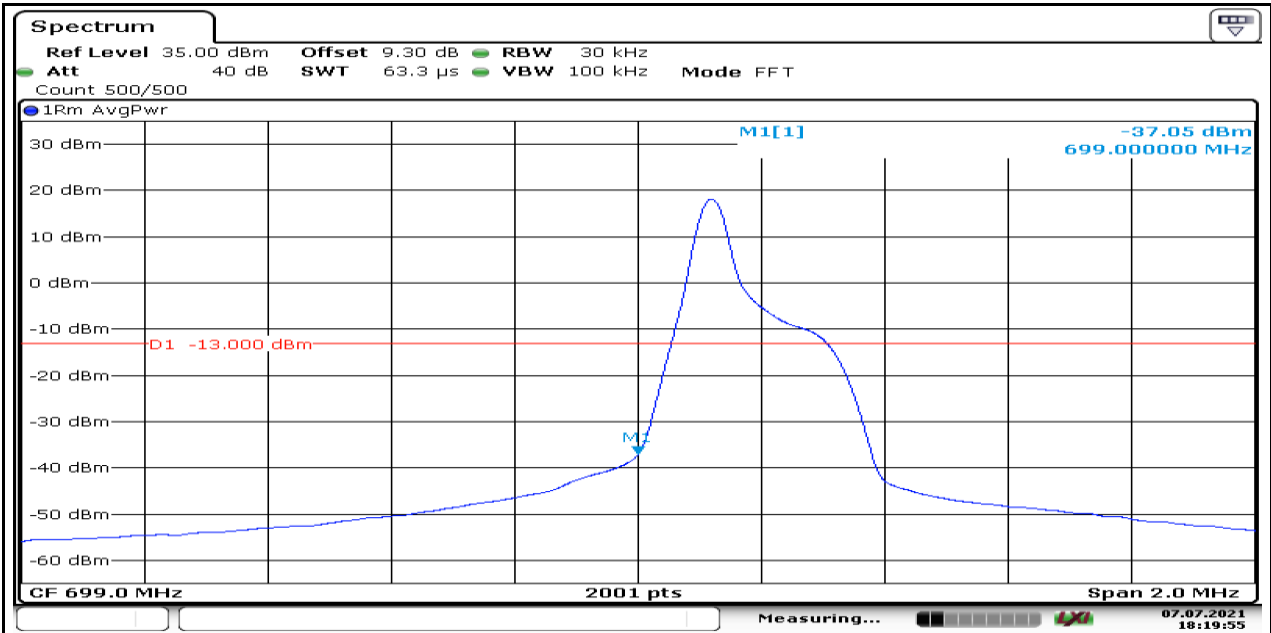
Date: 7.JUL.2021 18:12:21

Band12-Stand-Alone-3.75kHz-NaN-QPSK-23012-1@0--24.06-PASS



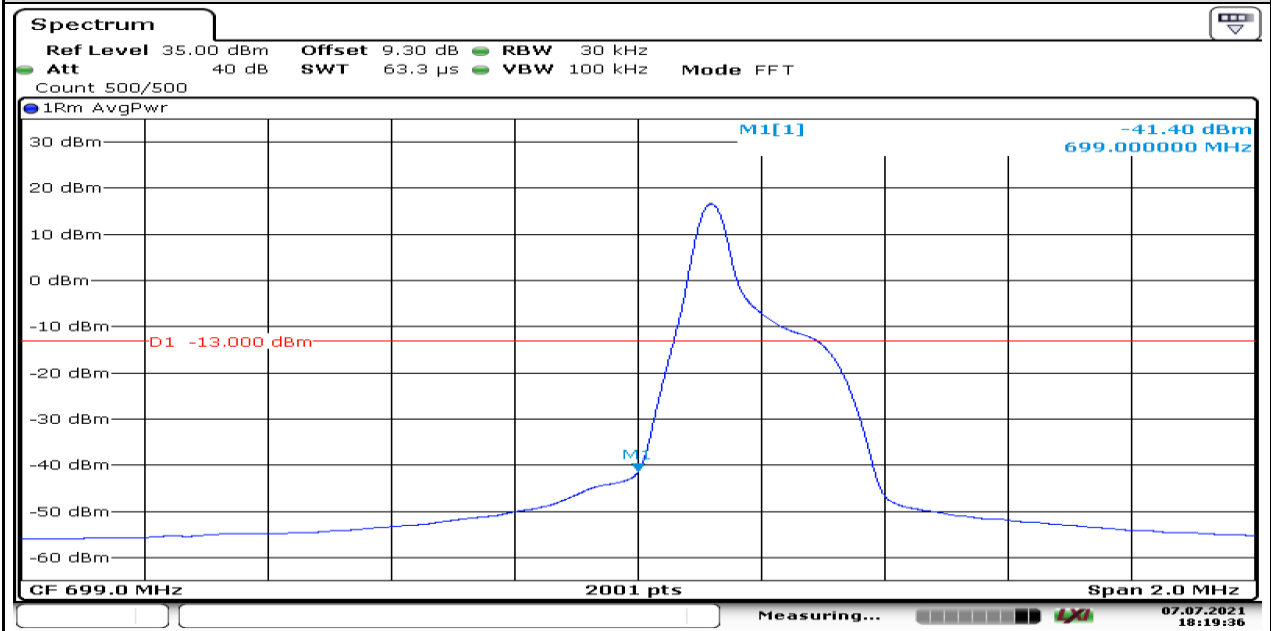
Date: 7.JUL.2021 18:16:34

Band12-Stand-Alone-15kHz-NaN-BPSK-23012-1@0--37.05-PASS



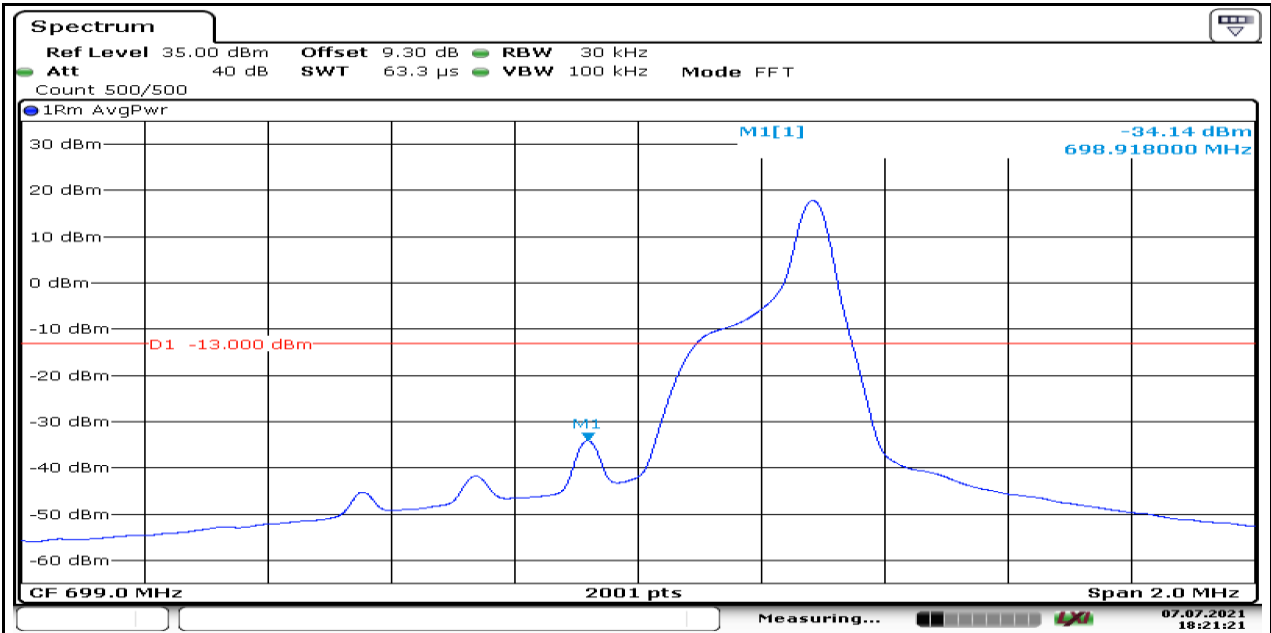
Date: 7.JUL.2021 18:19:55

Band12-Stand-Alone-15kHz-NaN-QPSK-23012-1@0--41.40-PASS



Date: 7.JUL.2021 18:19:35

Band12-Stand-Alone-15kHz-NaN-BPSK-23012-1@11--34.14-PASS



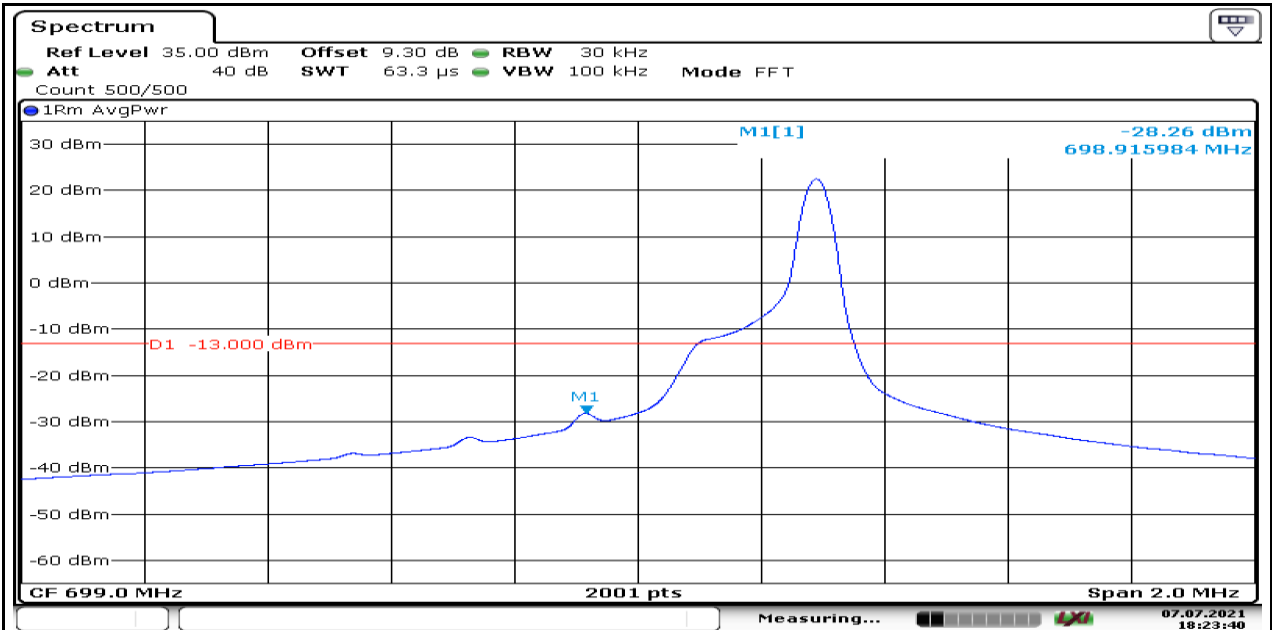
Date: 7.JUL.2021 18:21:21

Band12-Stand-Alone-15kHz-NaN-QPSK-23012-1@11-33.52-PASS



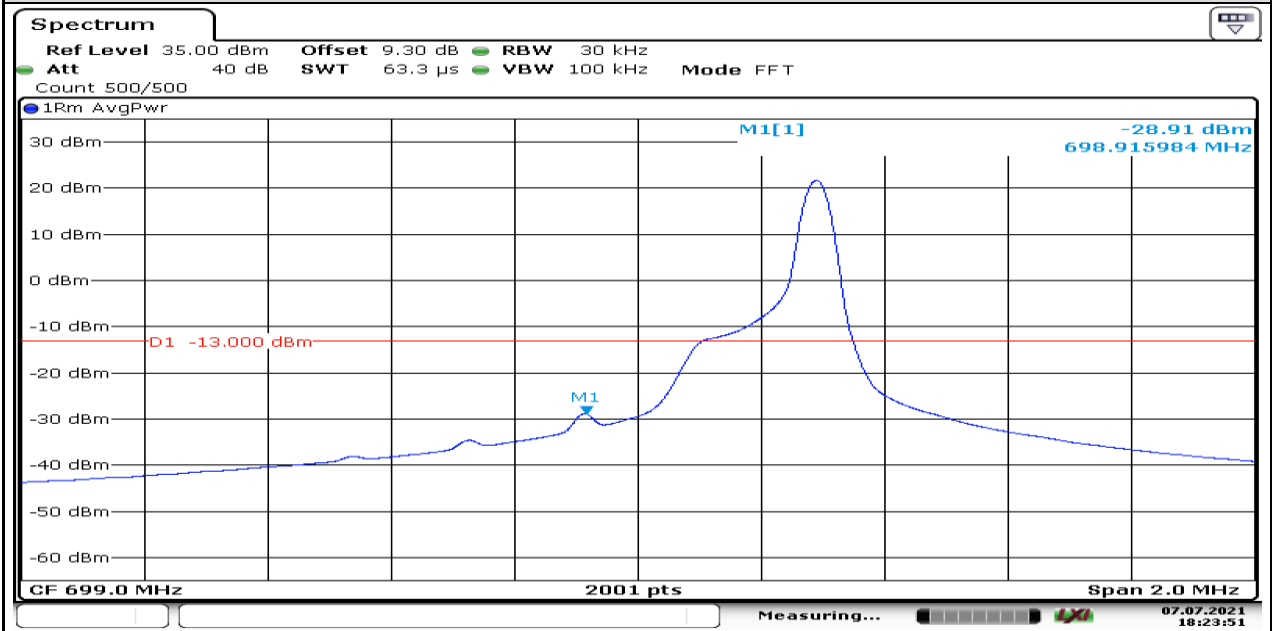
Date: 7.JUL.2021 18:21:39

Band12-Stand-Alone-3.75kHz-NaN-BPSK-23012-1@47-28.26-PASS



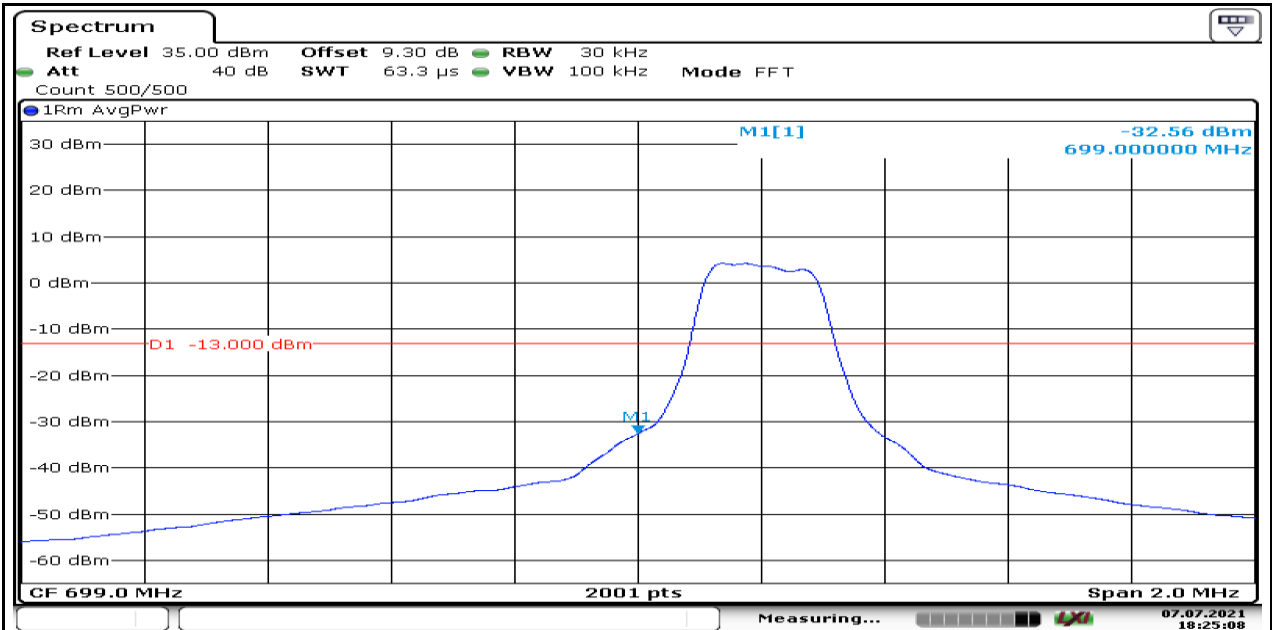
Date: 7.JUL.2021 18:23:40

Band12-Stand-Alone-3.75kHz-NaN-QPSK-23012-1@47--28.91-PASS



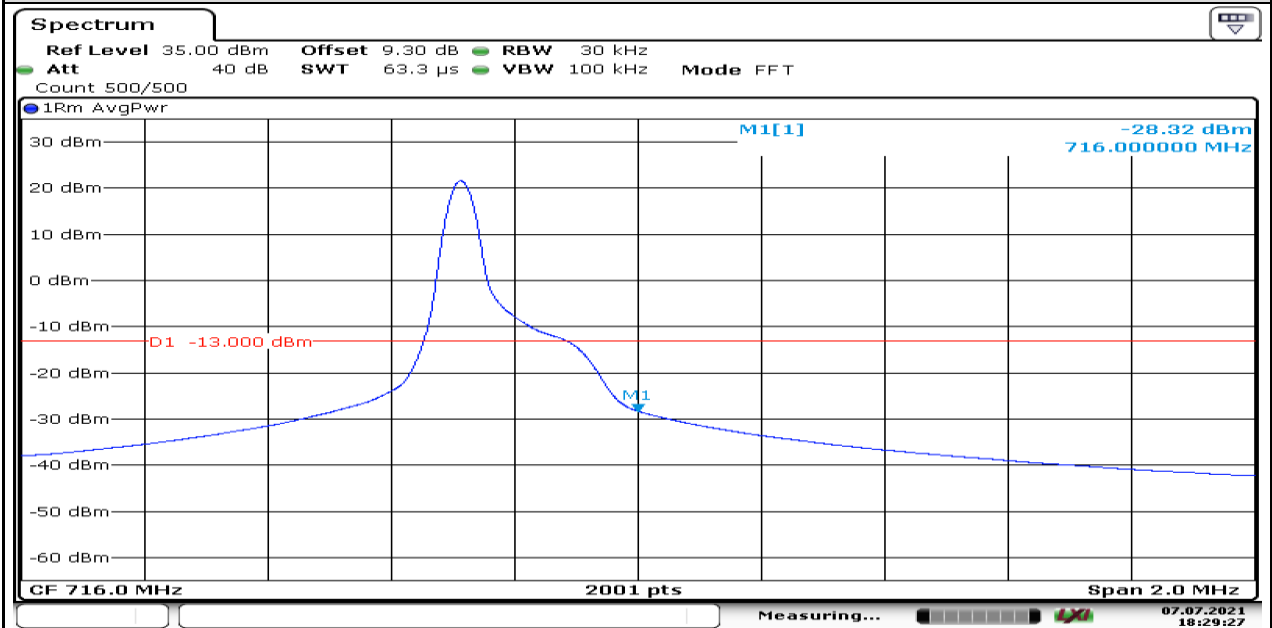
Date: 7.JUL.2021 18:23:51

Band12-Stand-Alone-15kHz-NaN-QPSK-23012-12@0--32.56-PASS



Date: 7.JUL.2021 18:25:08

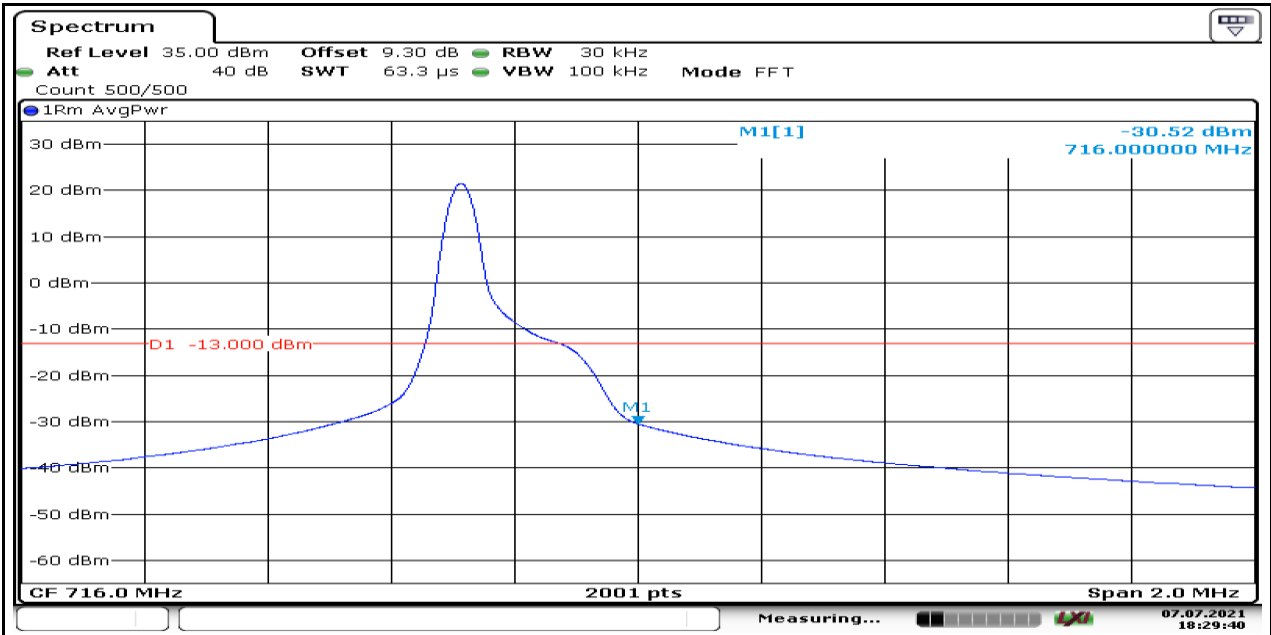
Band12-Stand-Alone-3.75kHz-NaN-BPSK-23178-1@0--28.32-PASS



Date: 7.JUL.2021 18:29:27

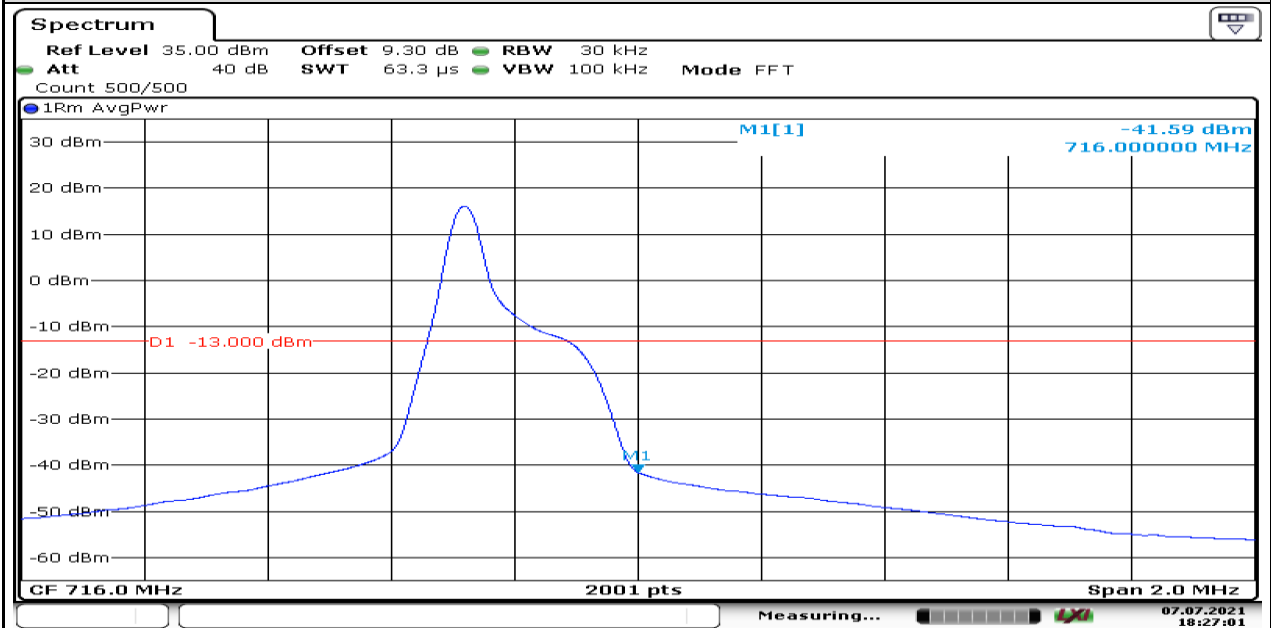
Band12-Stand-Alone-3.75kHz-NaN-QPSK-23178-1@0--30.52-PASS





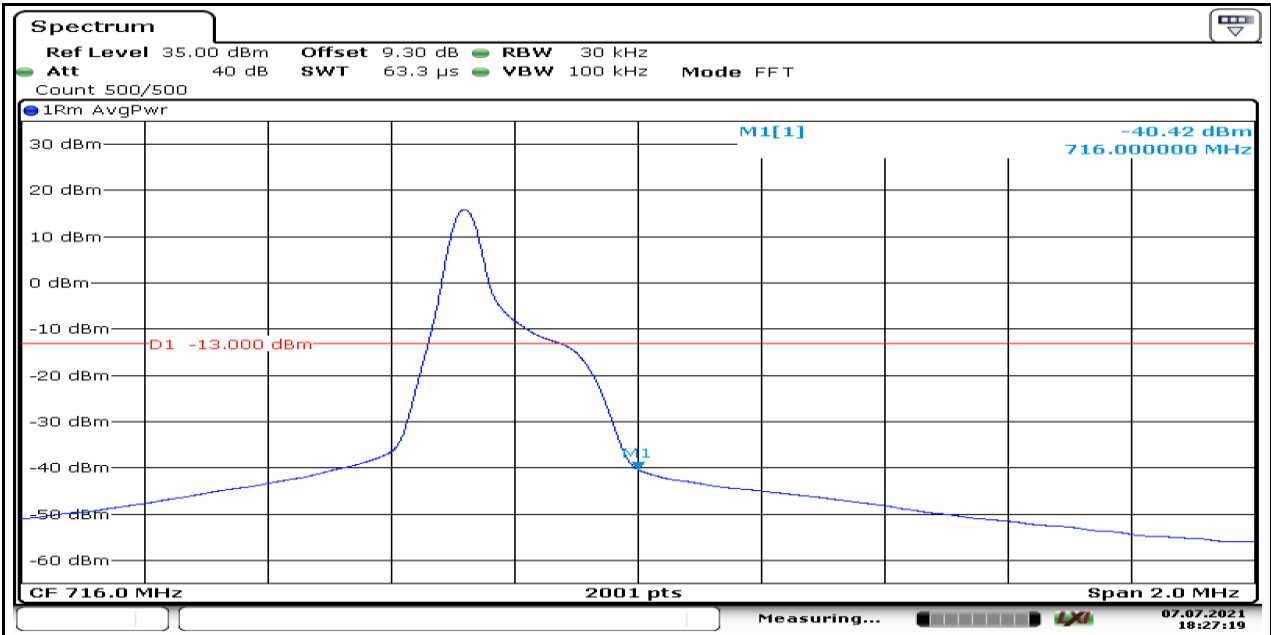
Date: 7.JUL.2021 18:29:40

Band12-Stand-Alone-15kHz-NaN-BPSK-23178-1@0--41.59-PASS



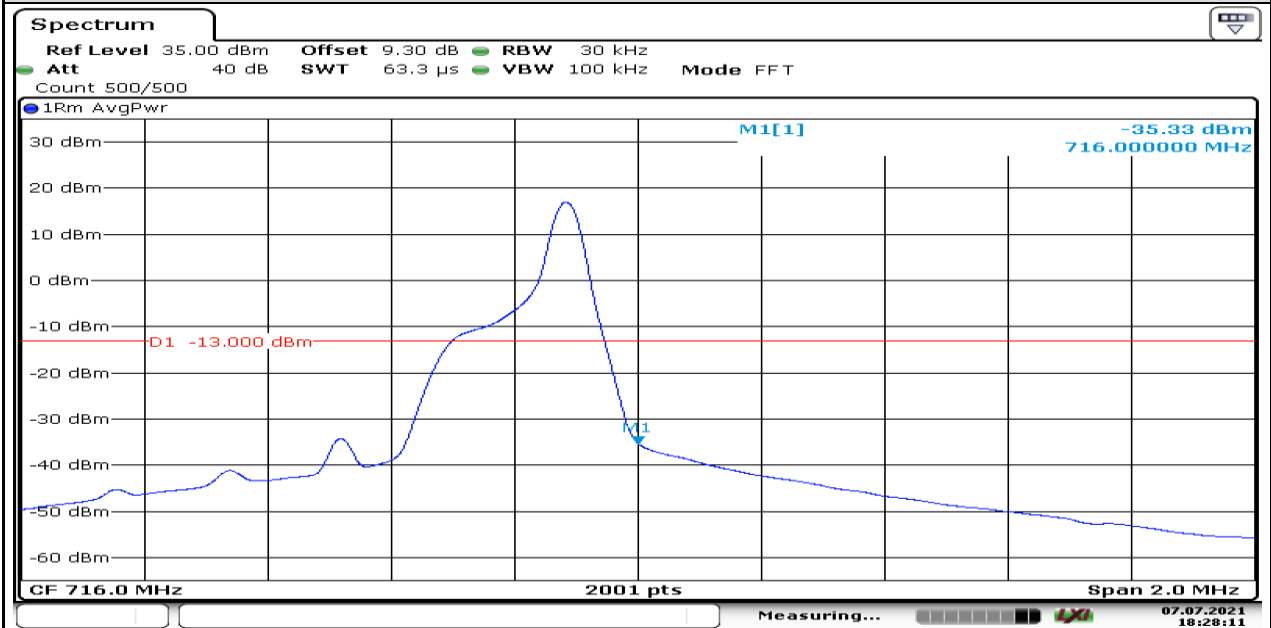
Date: 7.JUL.2021 18:27:00

Band12-Stand-Alone-15kHz-NaN-QPSK-23178-1@0--40.42-PASS



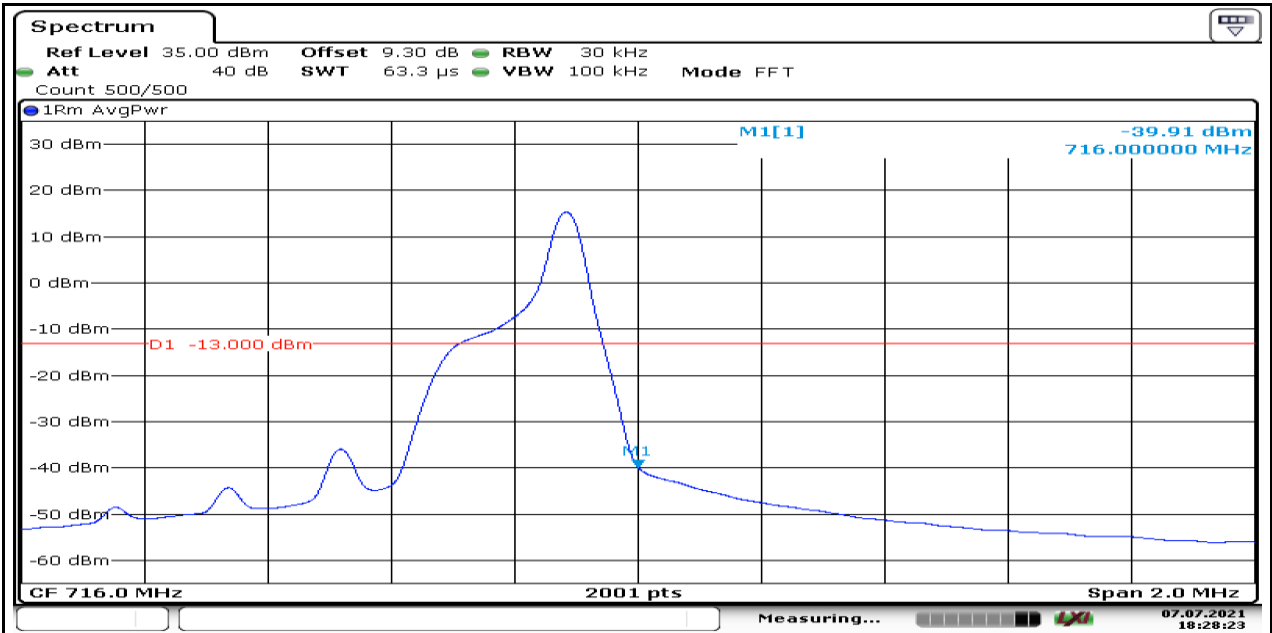
Date: 7.JUL.2021 18:27:19

Band12-Stand-Alone-15kHz-NaN-BPSK-23178-1@11--35.33-PASS



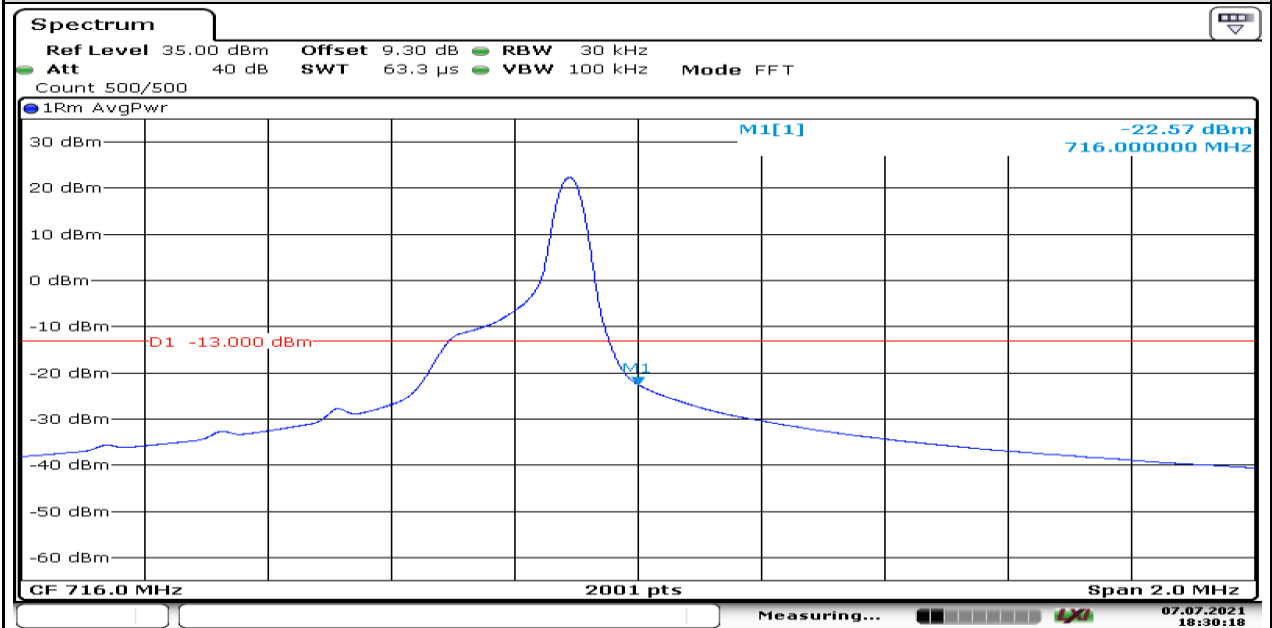
Date: 7.JUL.2021 18:28:11

Band12-Stand-Alone-15kHz-NaN-QPSK-23178-1@11--39.91-PASS



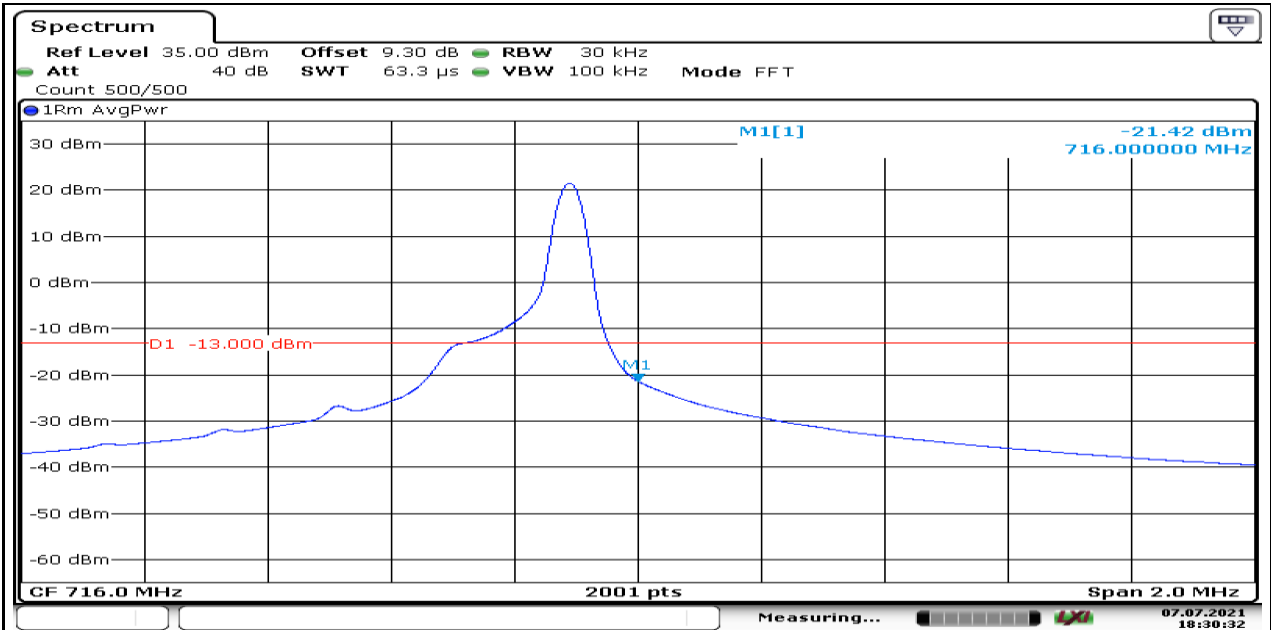
Date: 7.JUL.2021 18:28:23

Band12-Stand-Alone-3.75kHz-NaN-BPSK-23178-1@47--22.57-PASS



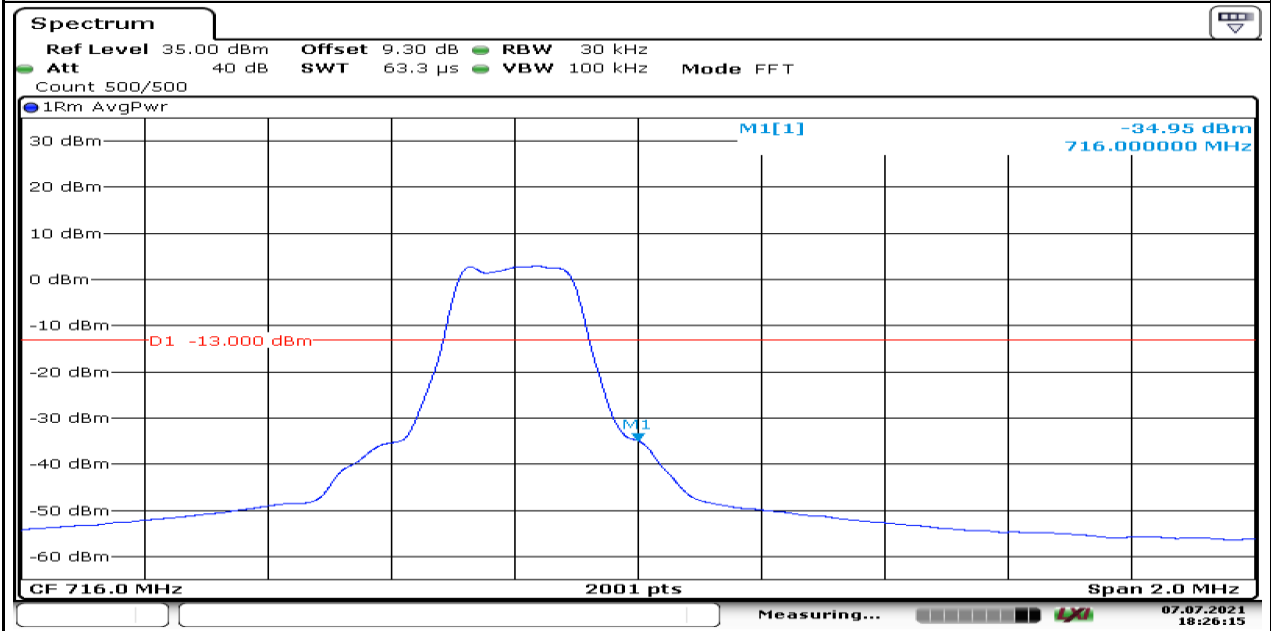
Date: 7.JUL.2021 18:30:17

Band12-Stand-Alone-3.75kHz-NaN-QPSK-23178-1@47--21.42-PASS



Date: 7.JUL.2021 18:30:32

Band12-Stand-Alone-15kHz-NaN-QPSK-23178-12@0--34.95-PASS



Date: 7.JUL.2021 18:26:15

## APPENDIX D.5: CONDUCTED SPURIOUS EMISSION FOR NB-IOT

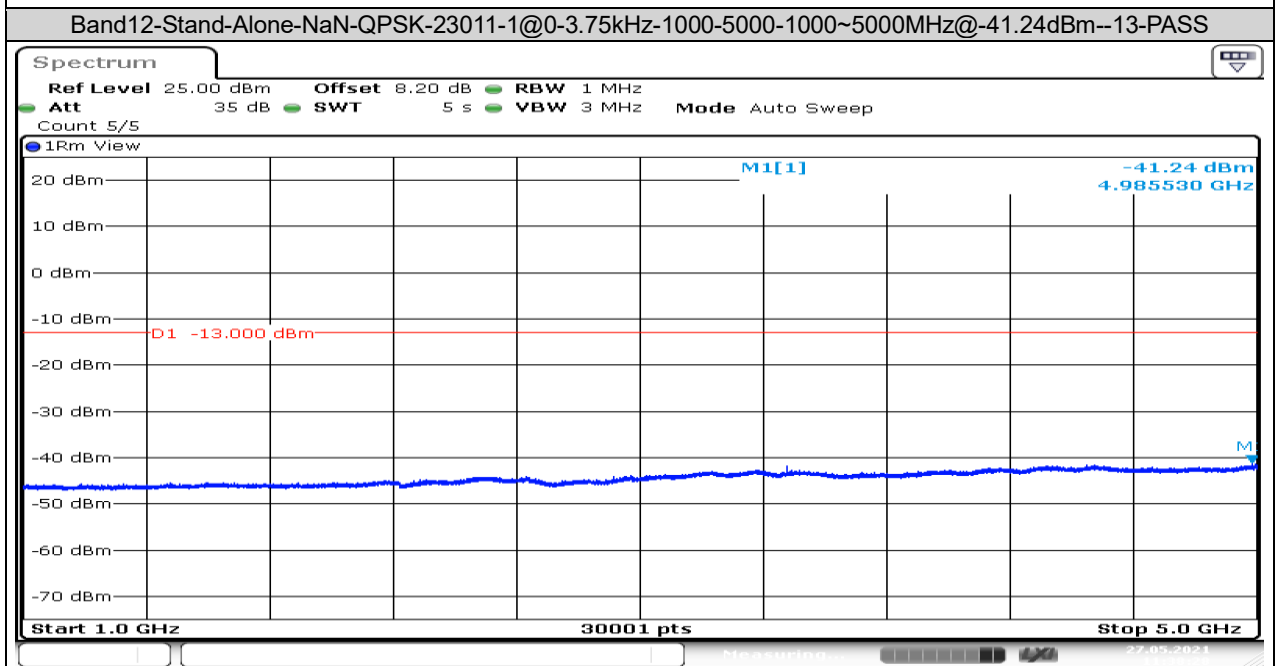
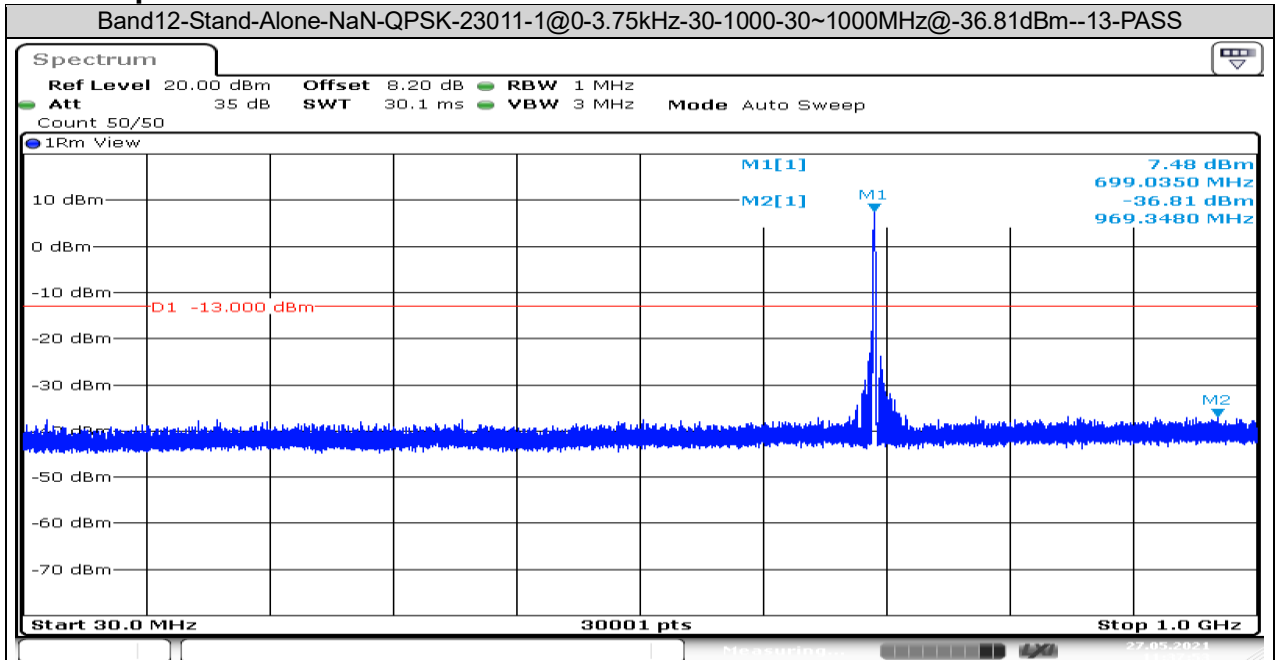
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	30~1000MHz@-36.81dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	1000~5000MHz@-41.24dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	5000~12000MHz@-54.68dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@0	12000~26500MHz@-50.79dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	30~1000MHz@-36.42dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	1000~5000MHz@-41.31dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	5000~12000MHz@-54.51dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23011	1@47	12000~26500MHz@-50.86dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	30~1000MHz@-36.55dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	1000~5000MHz@-38.24dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	5000~12000MHz@-54.39dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	12000~26500MHz@-50.57dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	30~1000MHz@-35.93dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	1000~5000MHz@-38.53dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	5000~12000MHz@-54.4dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	12000~26500MHz@-50.66dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	30~1000MHz@-36.88dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	1000~5000MHz@-41.48dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	5000~12000MHz@-54.67dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@0	12000~26500MHz@-50.76dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	30~1000MHz@-36.22dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	1000~5000MHz@-41.59dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	5000~12000MHz@-54.73dBm	-13	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23179	1@47	12000~26500MHz@-50.91dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	30~1000MHz@-36.8dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	1000~5000MHz@-41.67dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	5000~12000MHz@-54.72dBm	-13	PASS

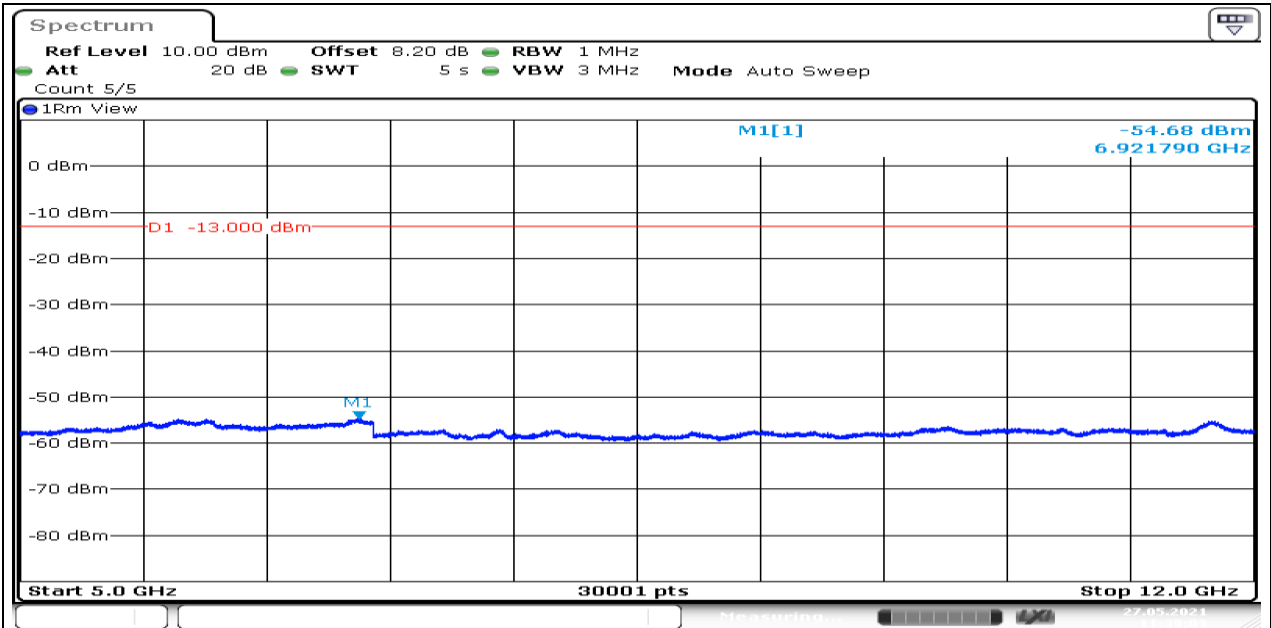
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@0	12000~26500MHz@-50.93dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	30~1000MHz@-36.67dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	1000~5000MHz@-41.54dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	5000~12000MHz@-54.51dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23011	1@11	12000~26500MHz@-50.82dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	30~1000MHz@-36.57dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	1000~5000MHz@-40.51dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	5000~12000MHz@-54.57dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@0	12000~26500MHz@-50.67dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	30~1000MHz@-36.51dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	1000~5000MHz@-40.69dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	5000~12000MHz@-54.62dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23095	1@11	12000~26500MHz@-50.48dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	30~1000MHz@-36.26dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	1000~5000MHz@-41.5dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	5000~12000MHz@-54.53dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@0	12000~26500MHz@-50.99dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	30~1000MHz@-35.83dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	1000~5000MHz@-41.56dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	5000~12000MHz@-54.54dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	BPSK	23179	1@11	12000~26500MHz@-50.93dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	30~1000MHz@-36.18dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	1000~5000MHz@-41.49dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	5000~12000MHz@-54.49dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23011	12@0	12000~26500MHz@-50.62dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	30~1000MHz@-36.48dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	1000~5000MHz@-41.29dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	5000~12000MHz@-54.63dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	12@0	12000~26500MHz@-50.64dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	30~1000MHz@-36.33dBm	-13	PASS

Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	1000~5000MHz@-41.55dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	5000~12000MHz@-54.51dBm	-13	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23179	12@0	12000~26500MHz@-50.99dBm	-13	PASS

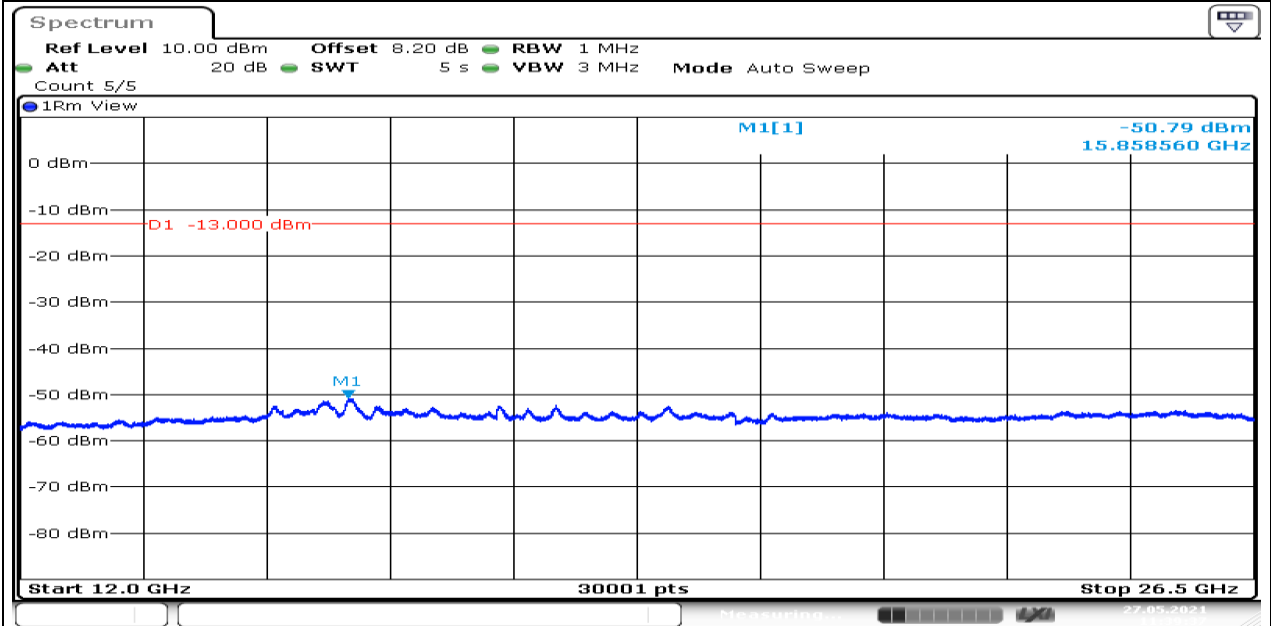
### Test Graphs



Band12-Stand-Alone-NaN-QPSK-23011-1@0-3.75kHz-5000-12000-5000~12000MHz@-54.68dBm--13-PASS

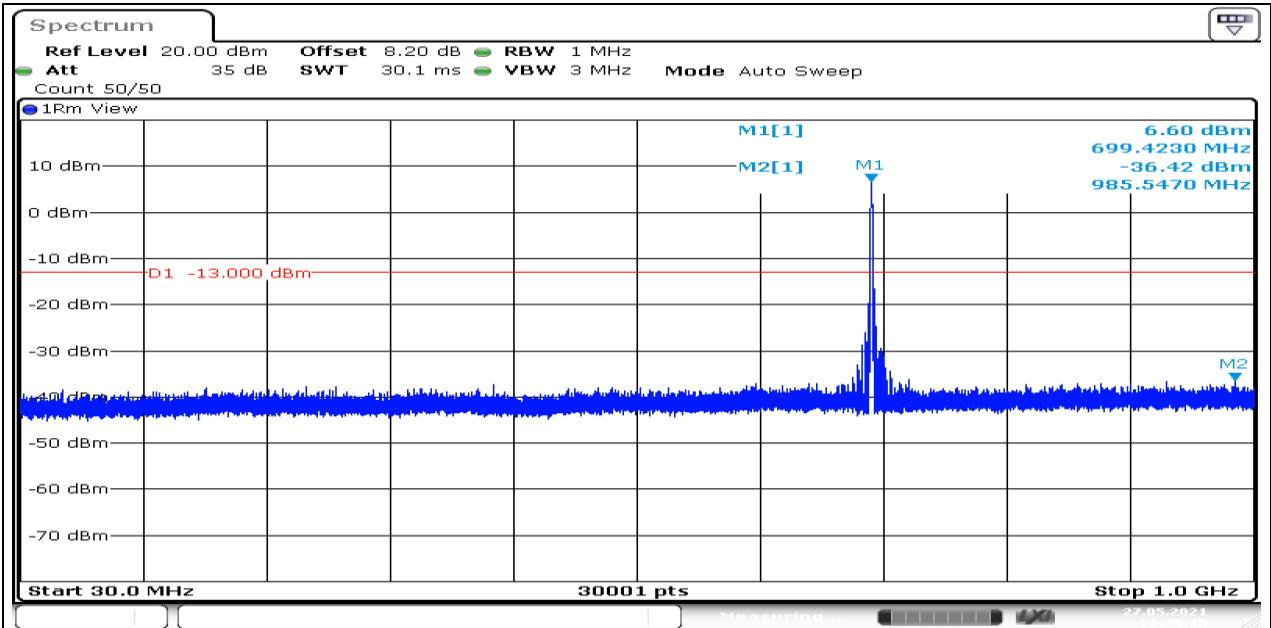


Band12-Stand-Alone-NaN-QPSK-23011-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.79dBm--13-PASS

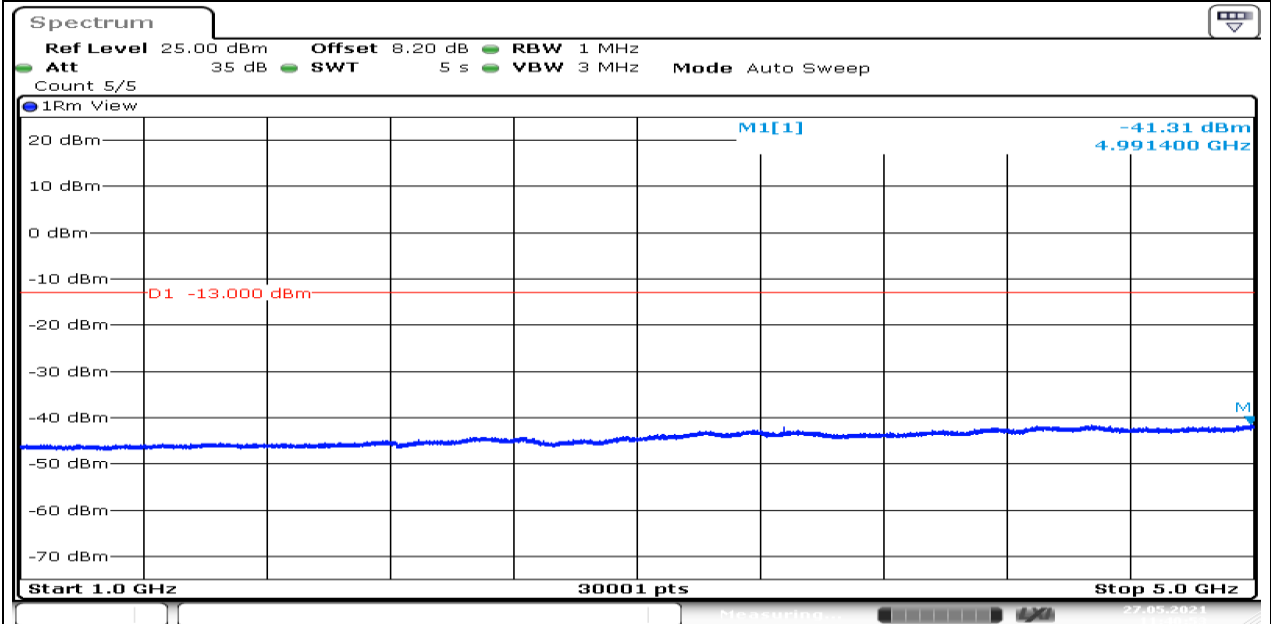


Band12-Stand-Alone-NaN-QPSK-23011-1@47-3.75kHz-30-1000-30~1000MHz@-36.42dBm--13-PASS

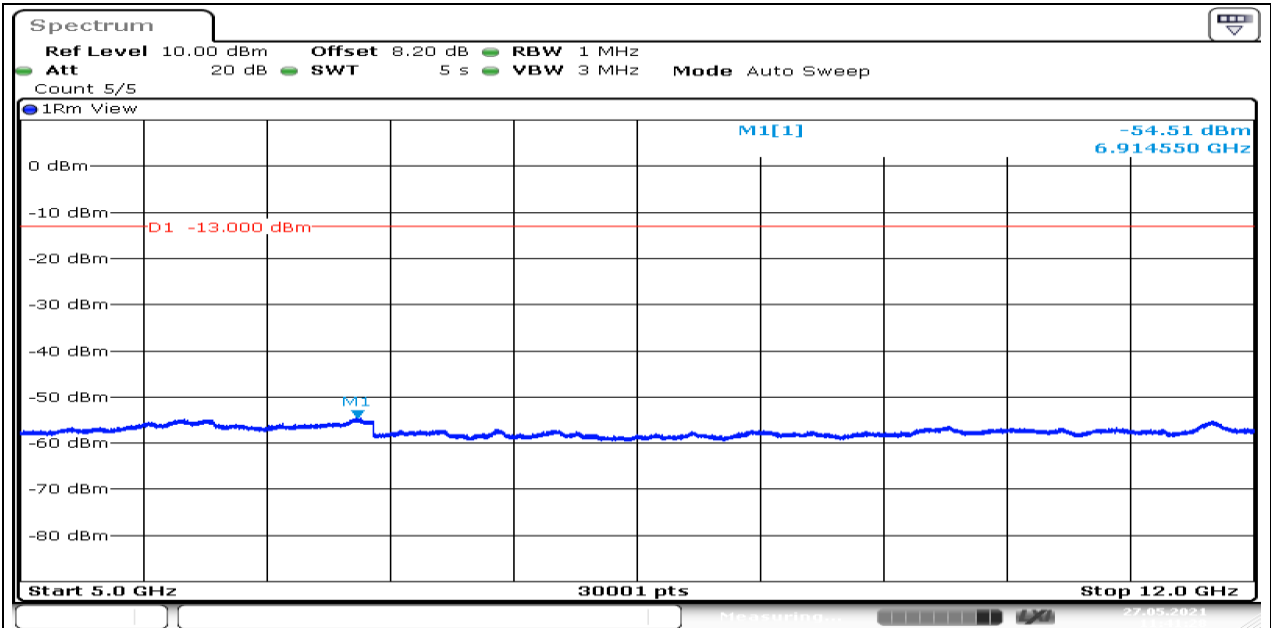




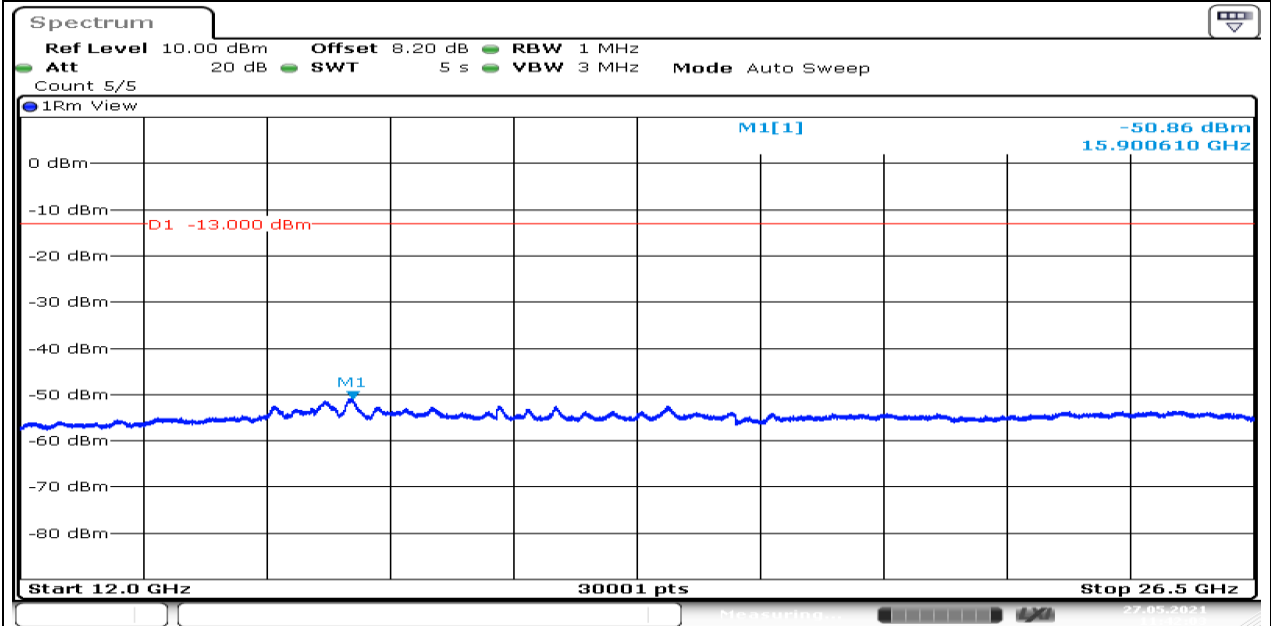
Band12-Stand-Alone-NaN-QPSK-23011-1@47-3.75kHz-1000-5000-1000~5000MHz@-41.31dBm--13-PASS



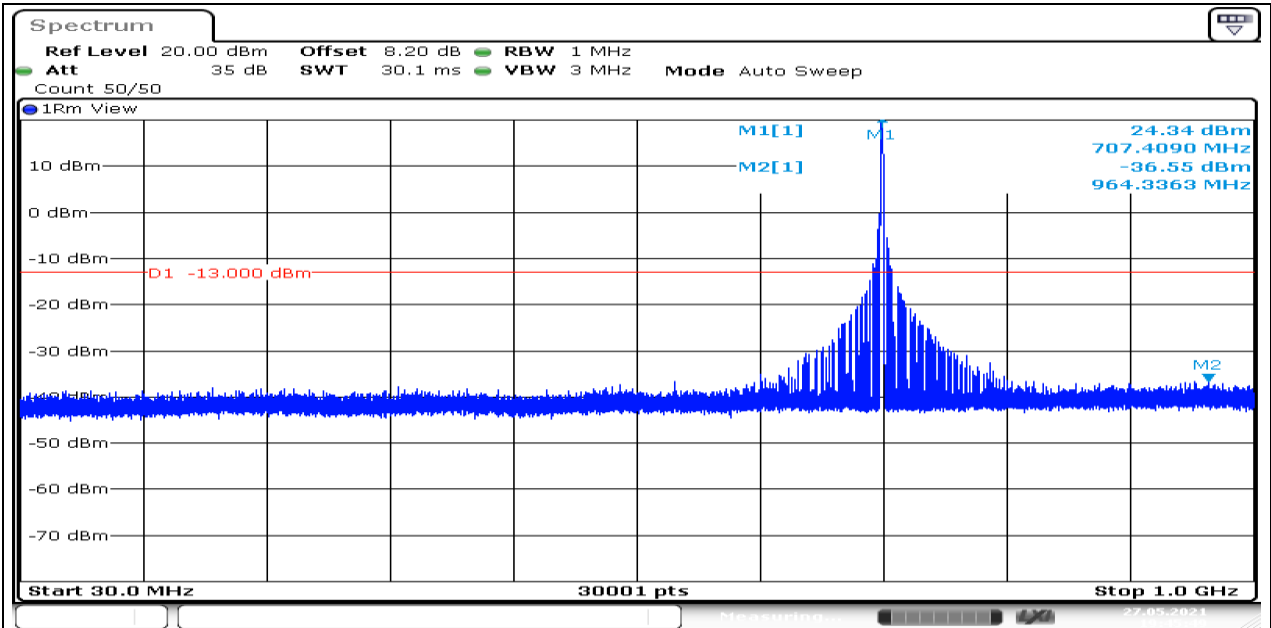
Band12-Stand-Alone-NaN-QPSK-23011-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.51dBm--13-PASS



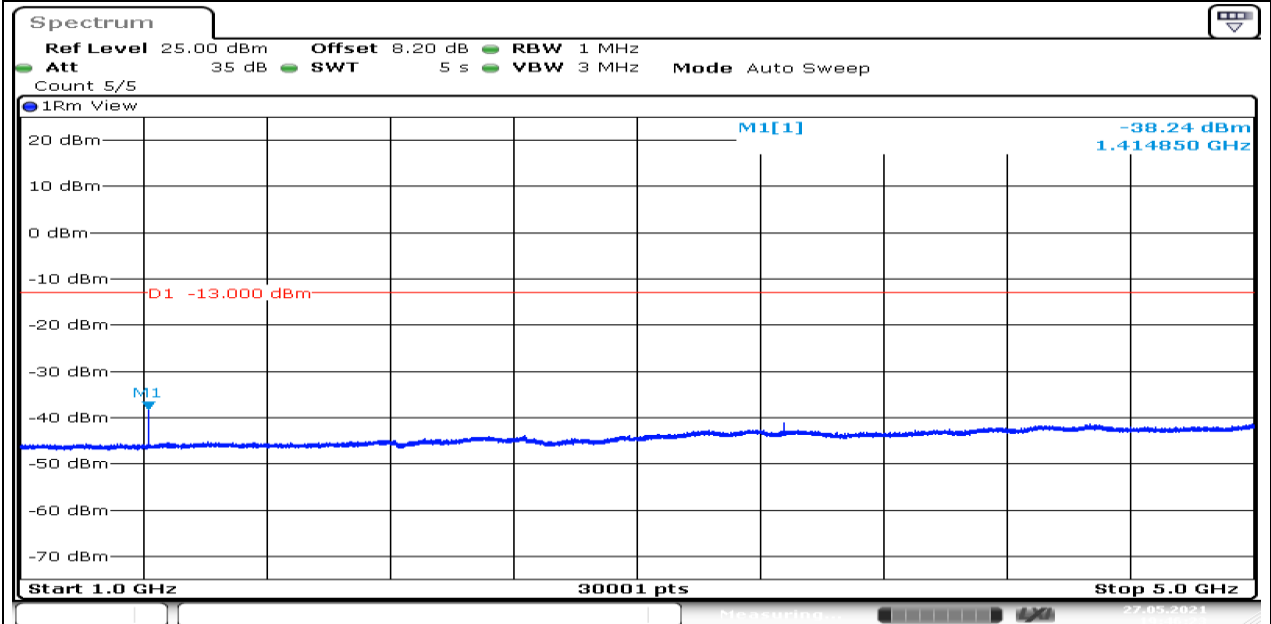
Band12-Stand-Alone-NaN-QPSK-23011-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.86dBm--13-PASS



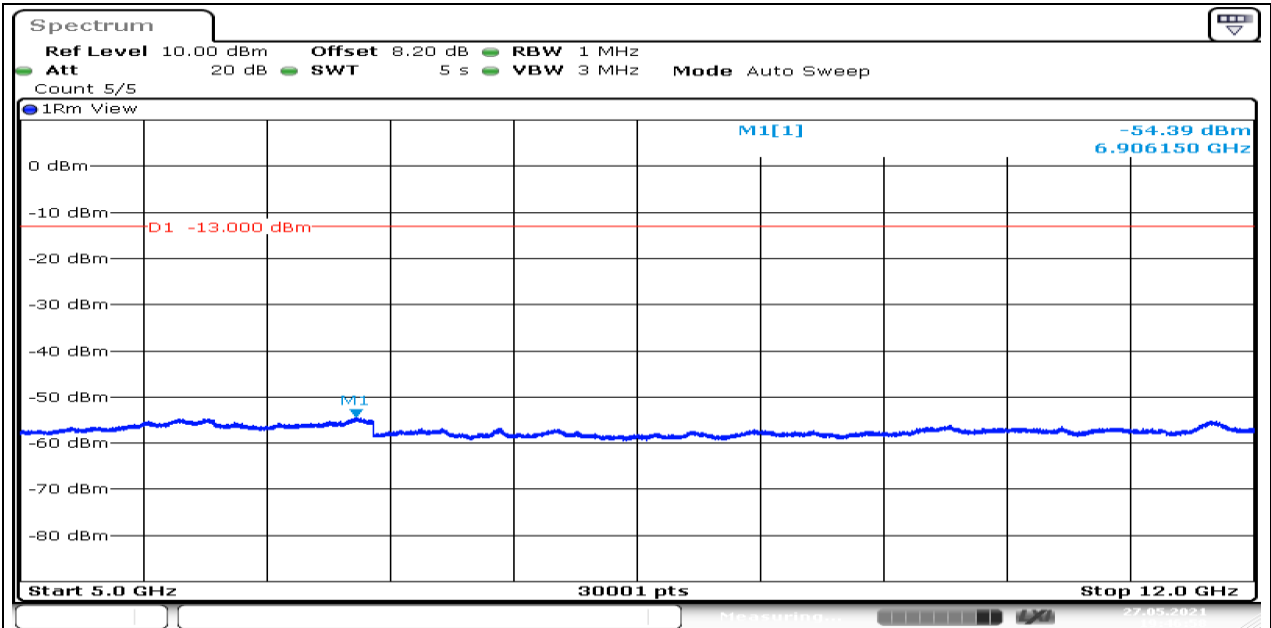
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-30-1000-30~1000MHz@-36.55dBm--13-PASS



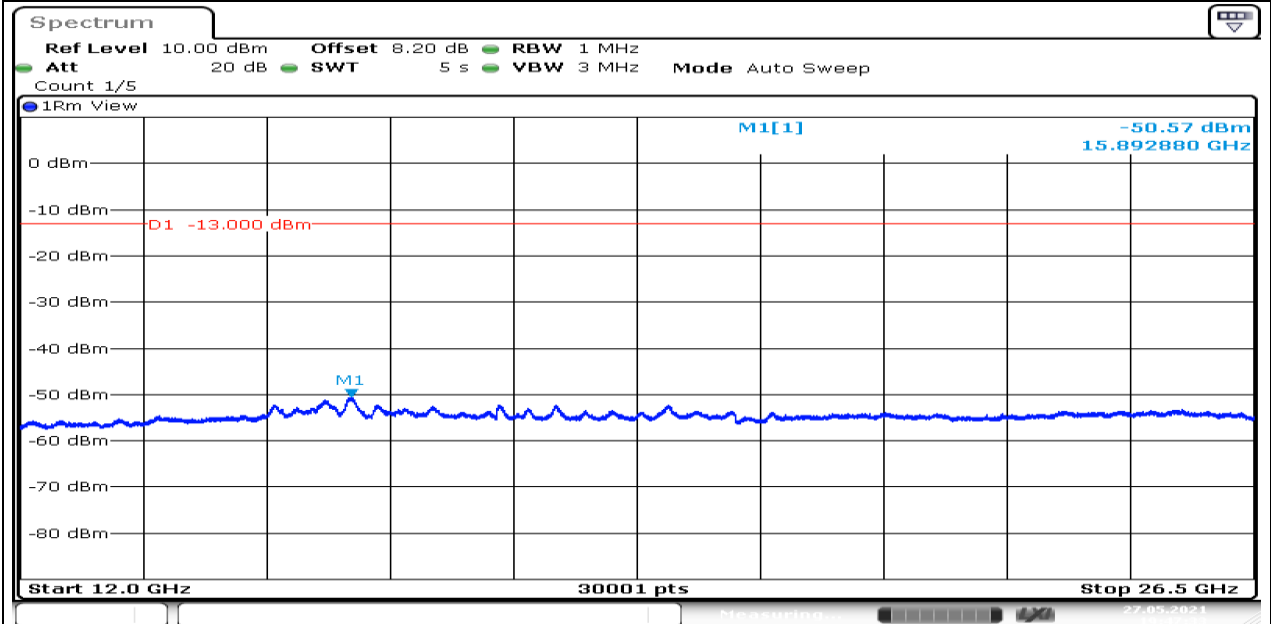
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-1000-5000-1000-5000MHz@-38.24dBm--13-PASS



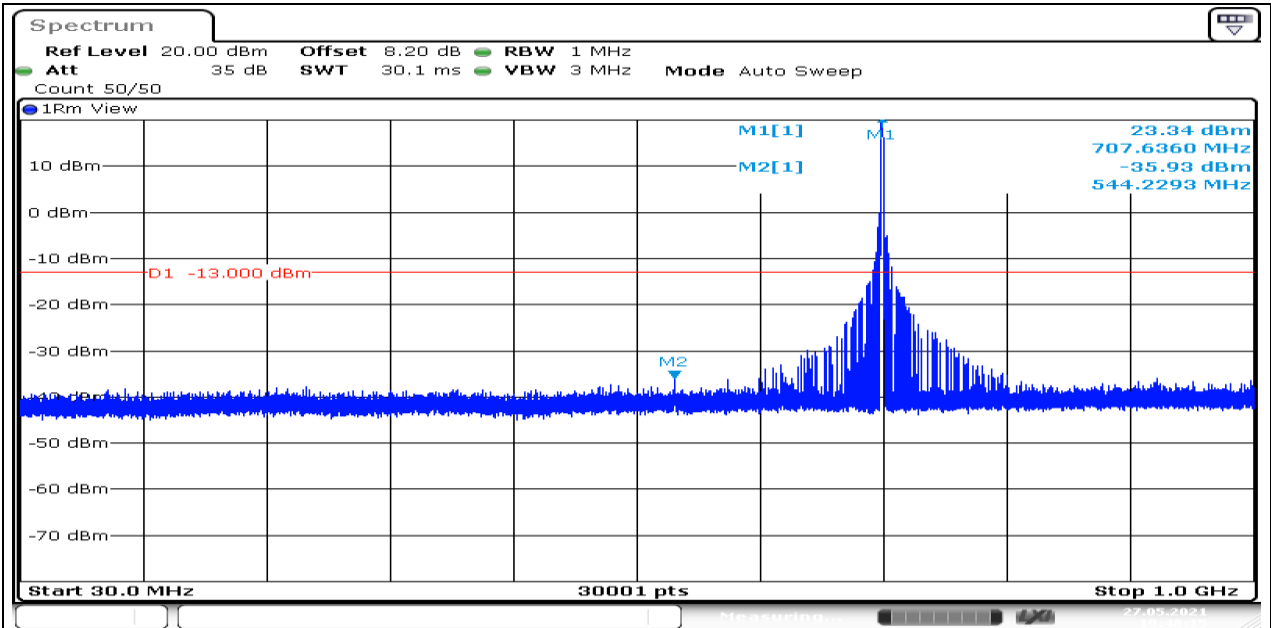
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-5000-12000-5000-12000MHz@-54.39dBm--13-PASS



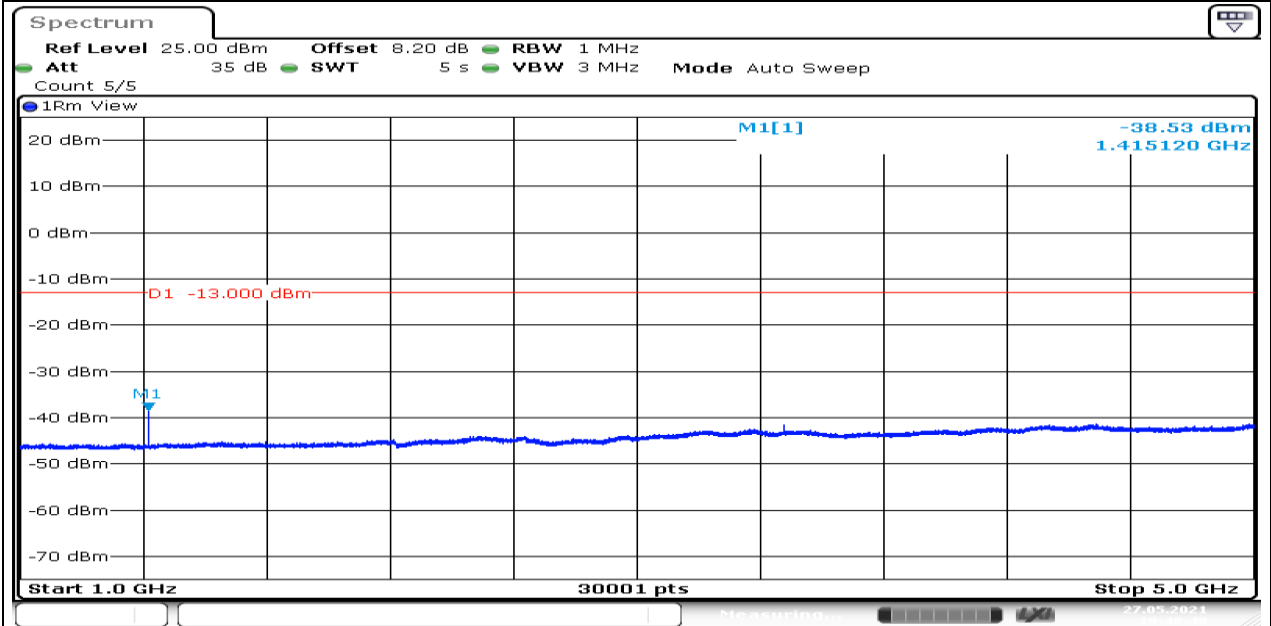
Band12-Stand-Alone-NaN-QPSK-23095-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.57dBm--13-PASS



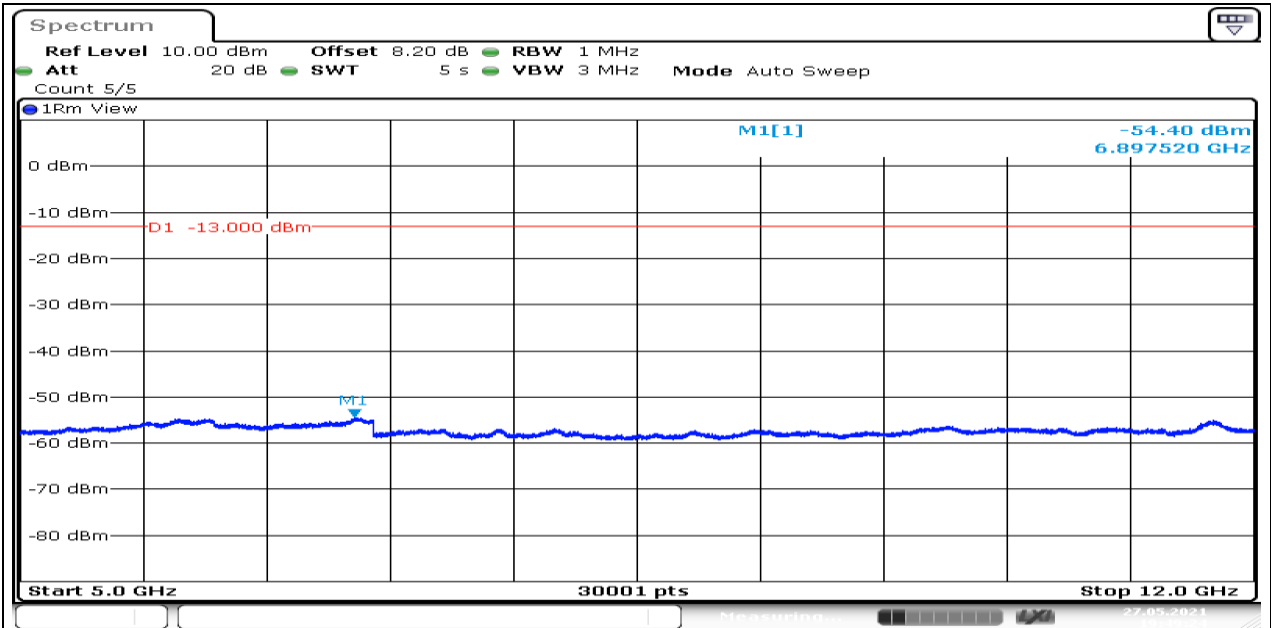
Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-30-1000-30~1000MHz@-35.93dBm--13-PASS



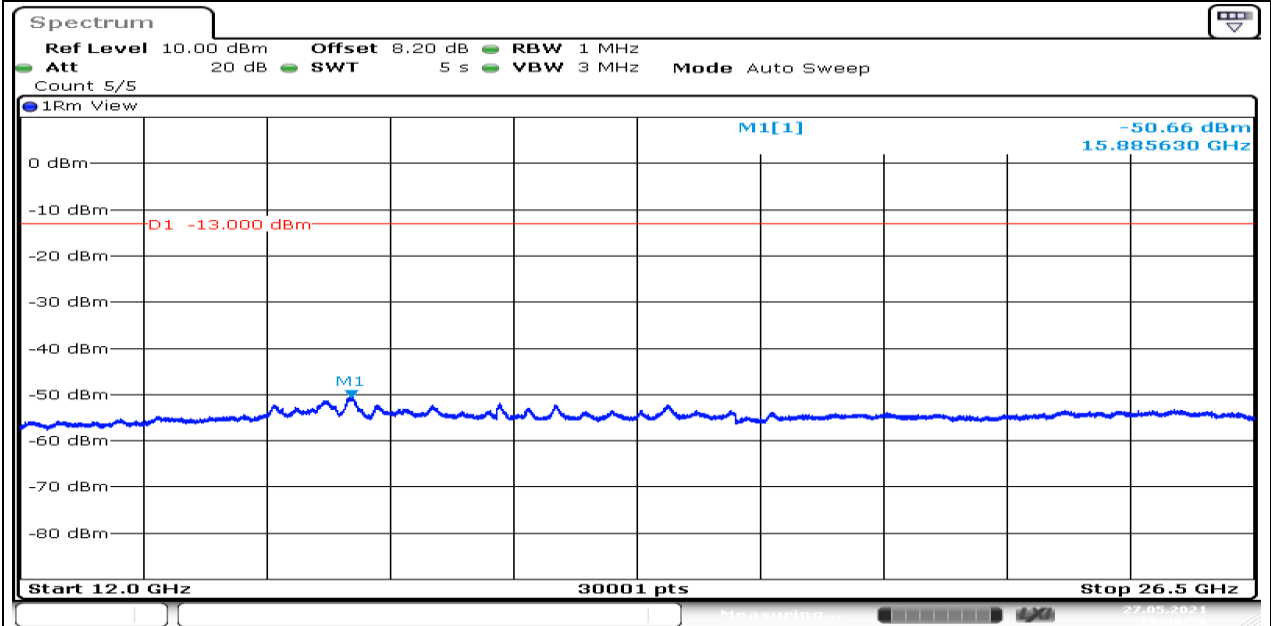
Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-1000-5000-1000~5000MHz@-38.53dBm--13-PASS



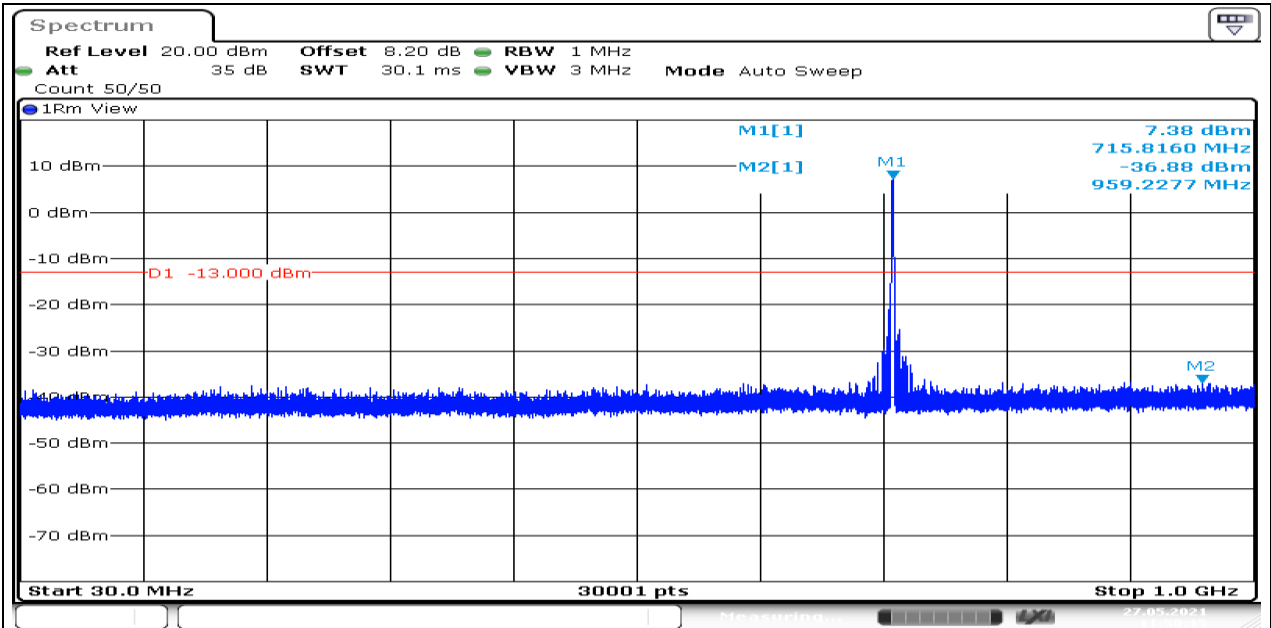
Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.4dBm--13-PASS



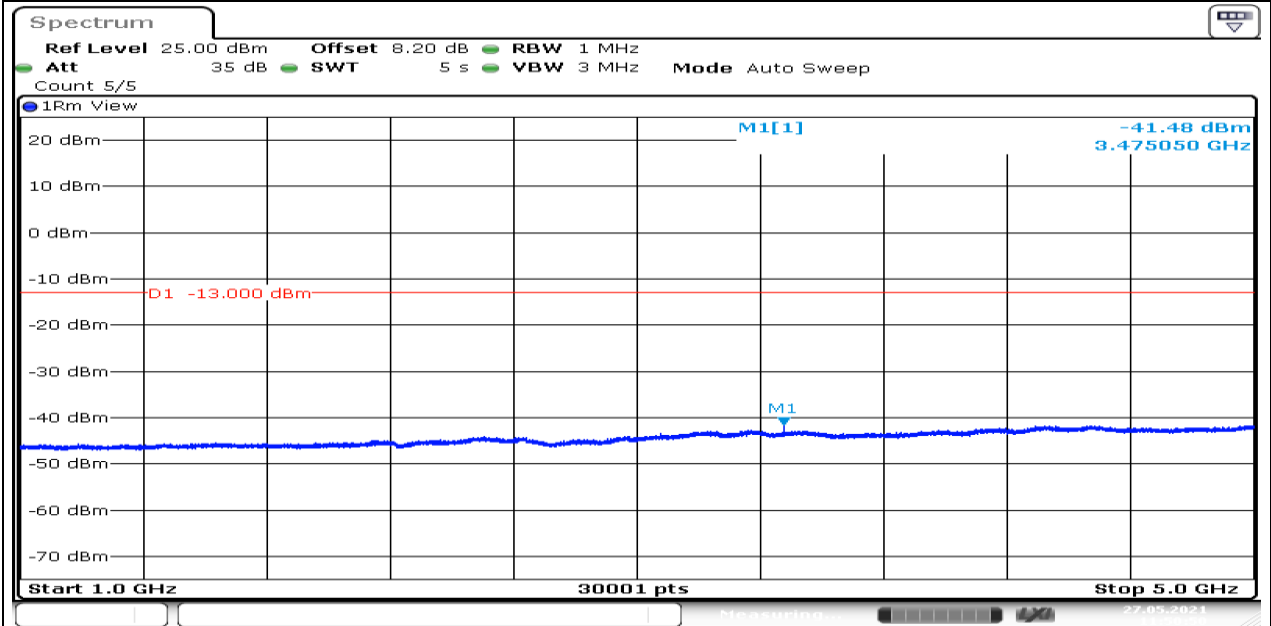
Band12-Stand-Alone-NaN-QPSK-23095-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.66dBm--13-PASS



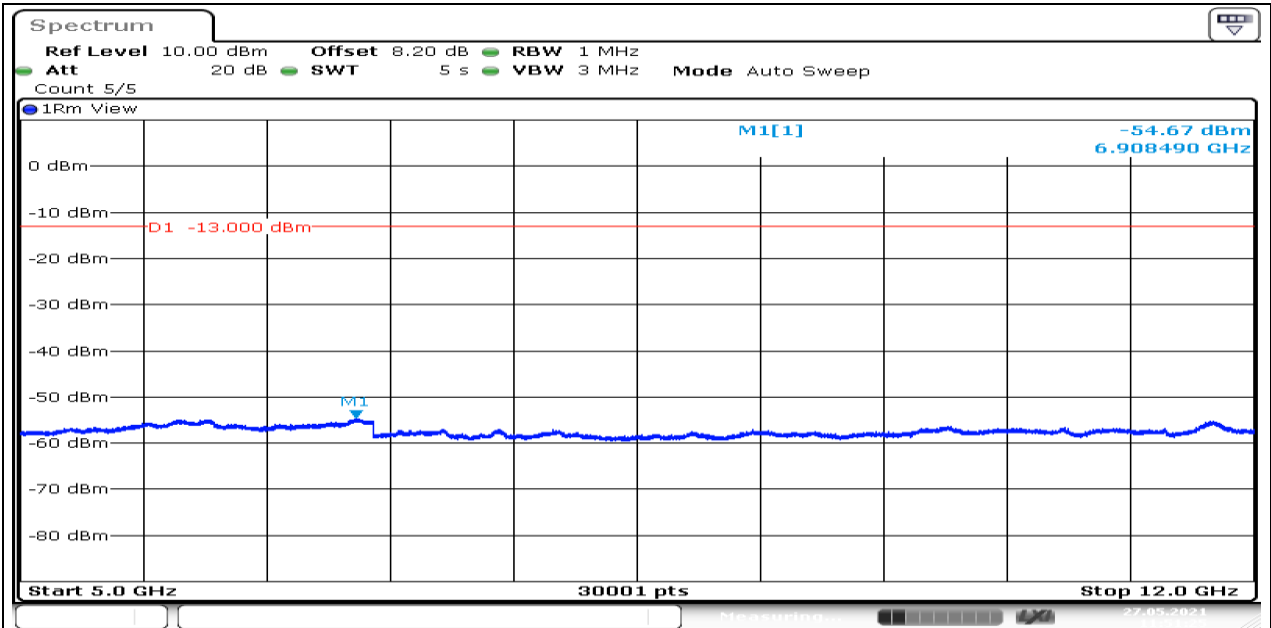
Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-30-1000-30~1000MHz@-36.88dBm--13-PASS



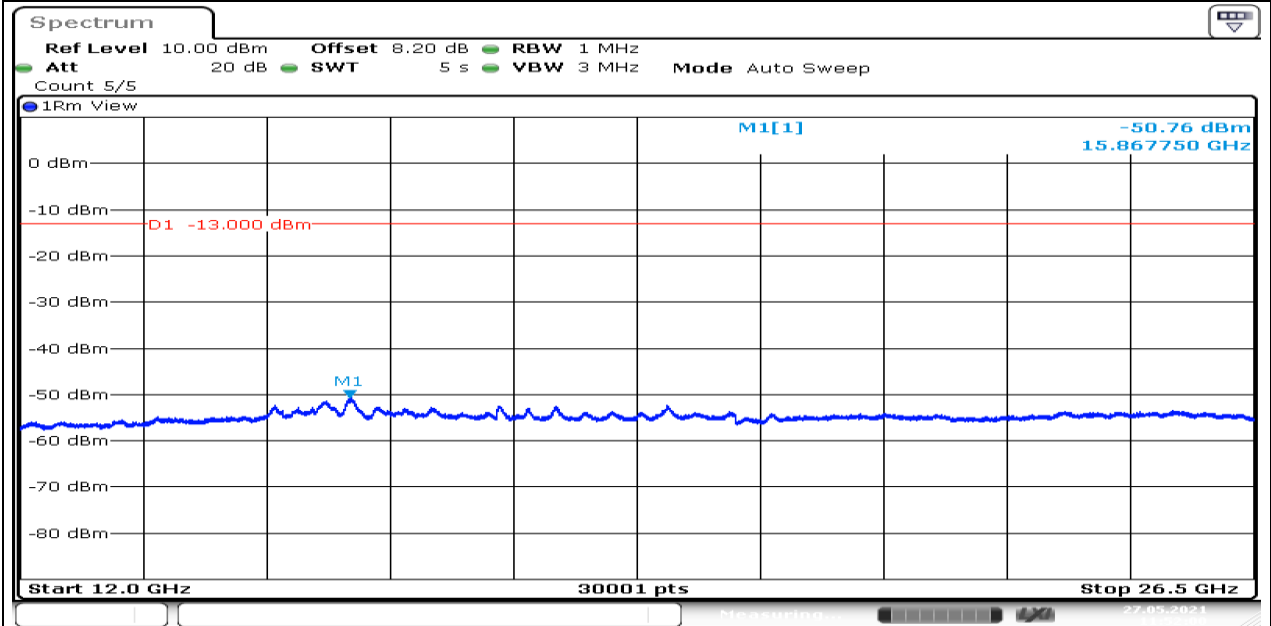
Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-1000-5000-1000-5000MHz@-41.48dBm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-5000-12000-5000-12000MHz@-54.67dBm--13-PASS

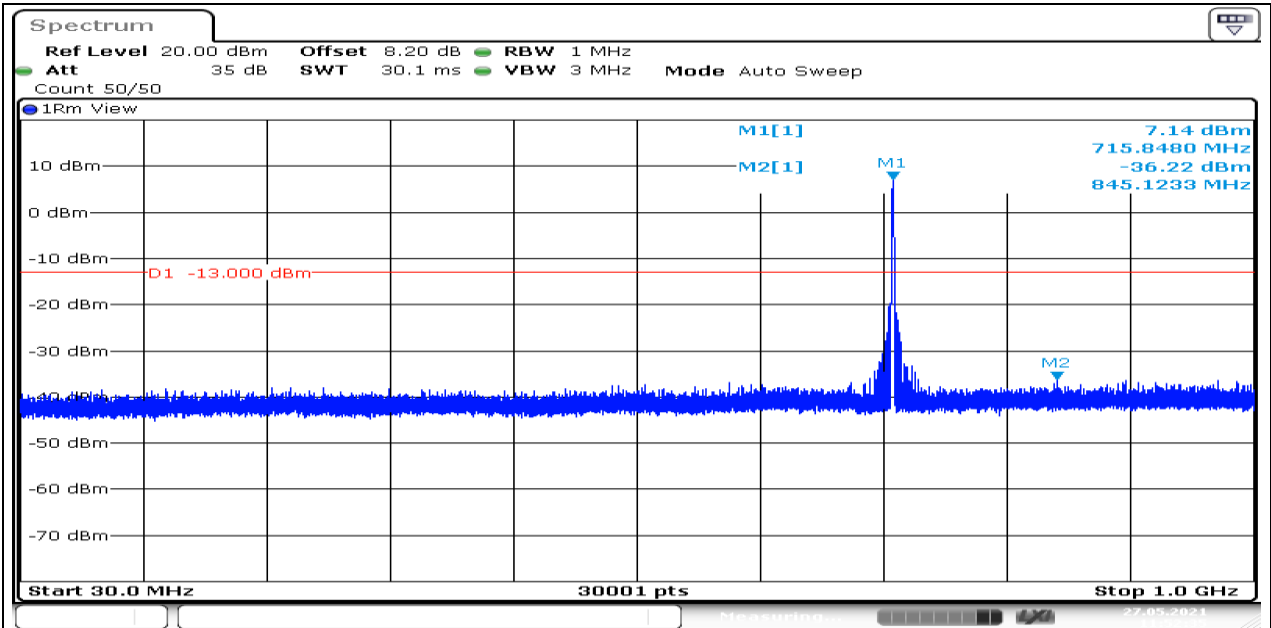


Band12-Stand-Alone-NaN-QPSK-23179-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.76dBm--13-PASS

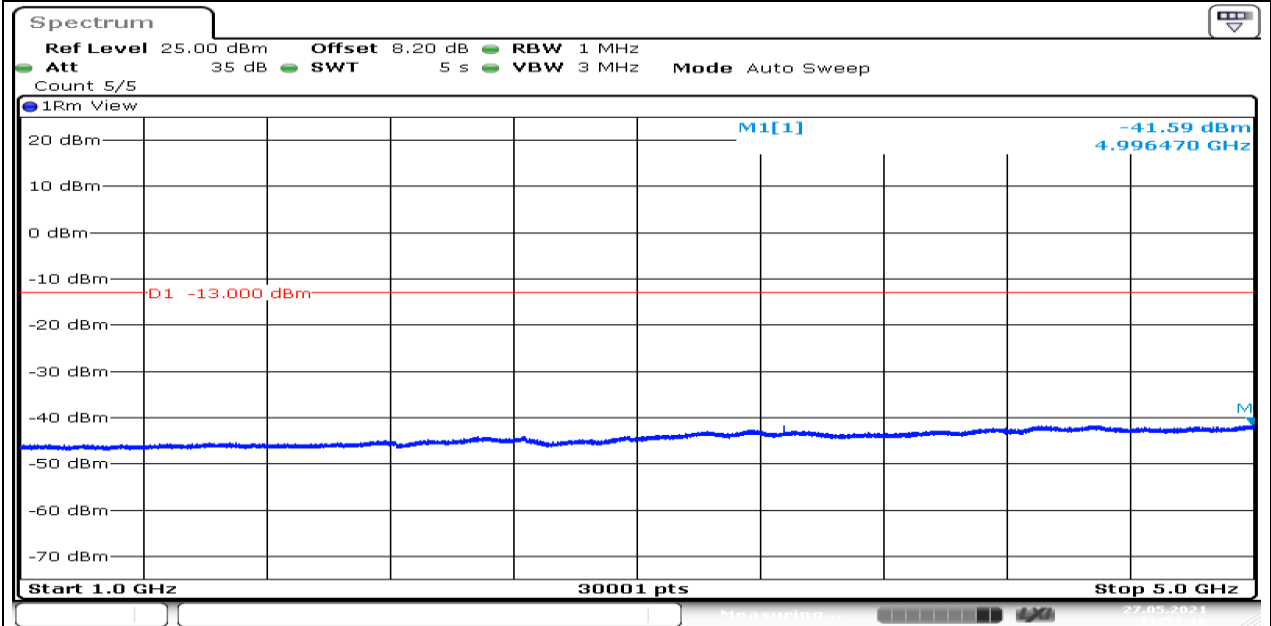


Band12-Stand-Alone-NaN-QPSK-23179-1@47-3.75kHz-30-1000-30~1000MHz@-36.22dBm--13-PASS

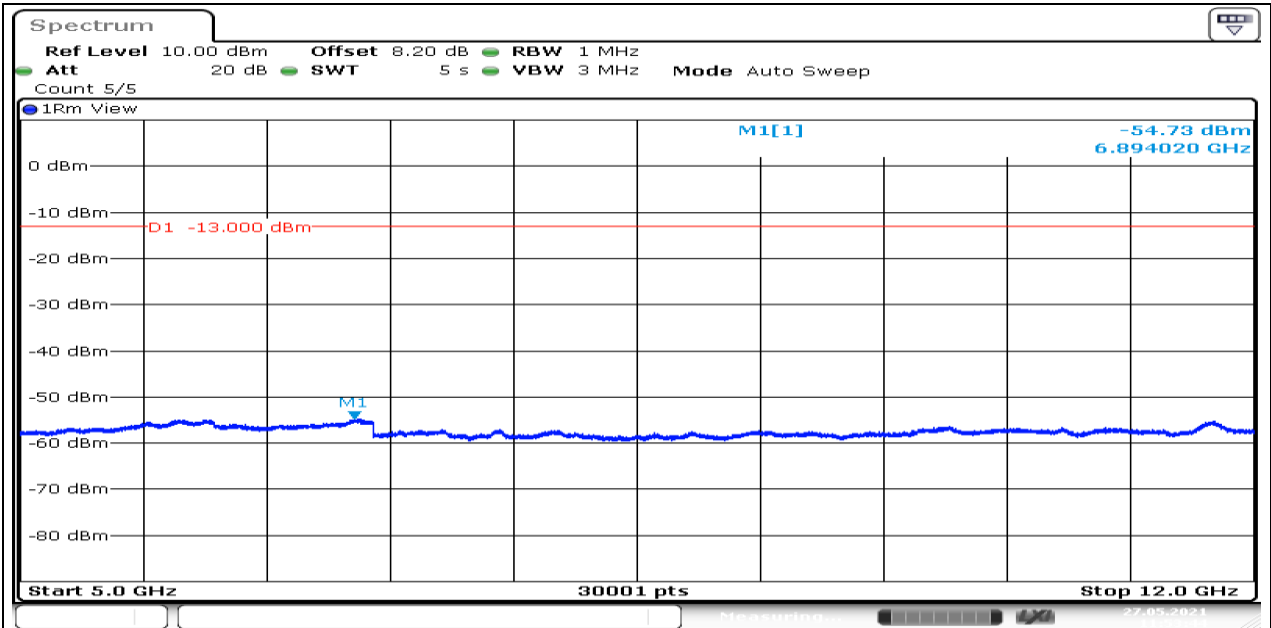




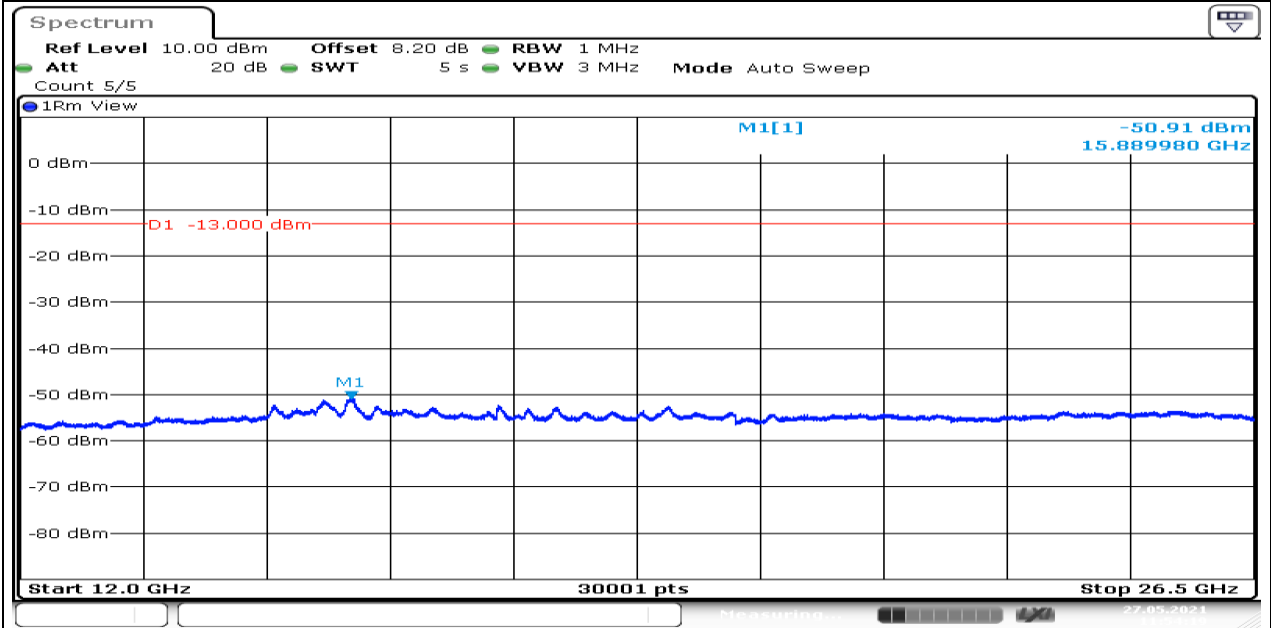
Band12-Stand-Alone-NaN-QPSK-23179-1@47-3.75kHz-1000-5000-1000~5000MHz@-41.59dBm--13-PASS



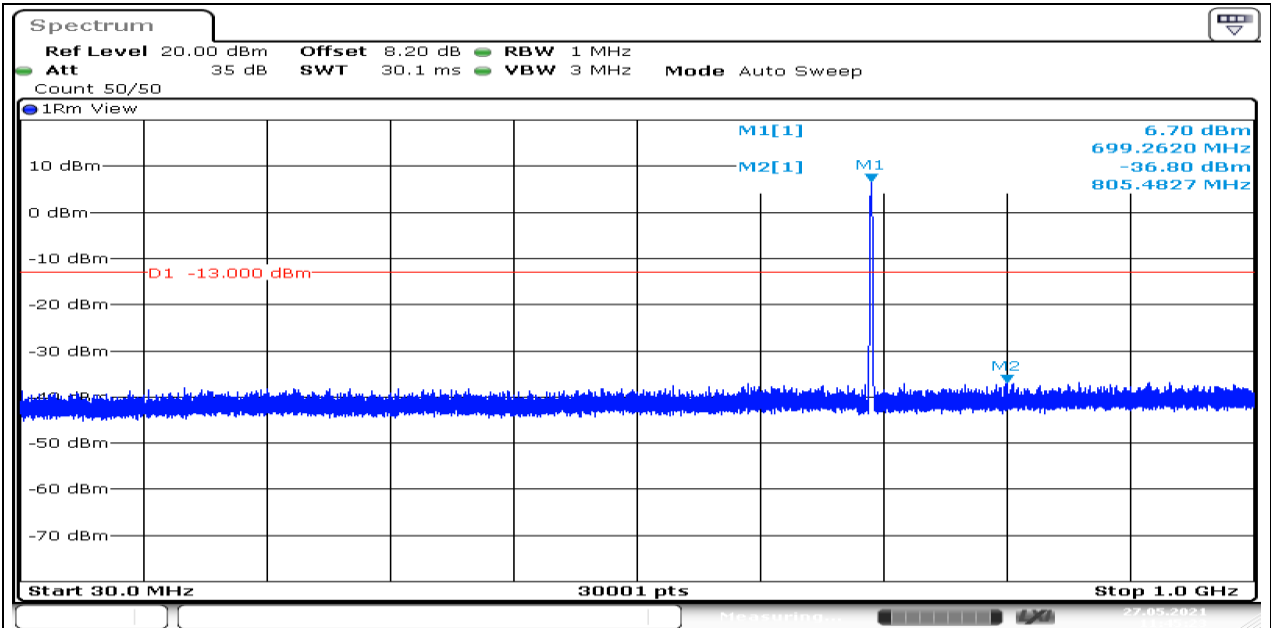
Band12-Stand-Alone-NaN-QPSK-23179-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.73dBm--13-PASS



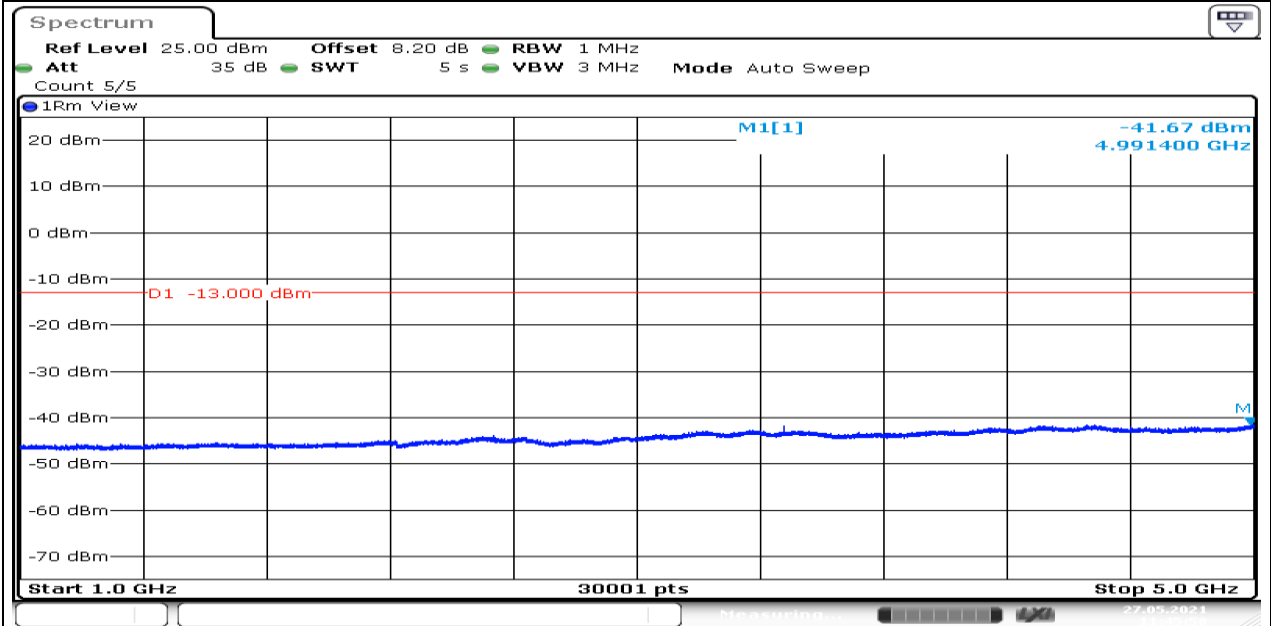
Band12-Stand-Alone-NaN-QPSK-23179-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.91dBm--13-PASS



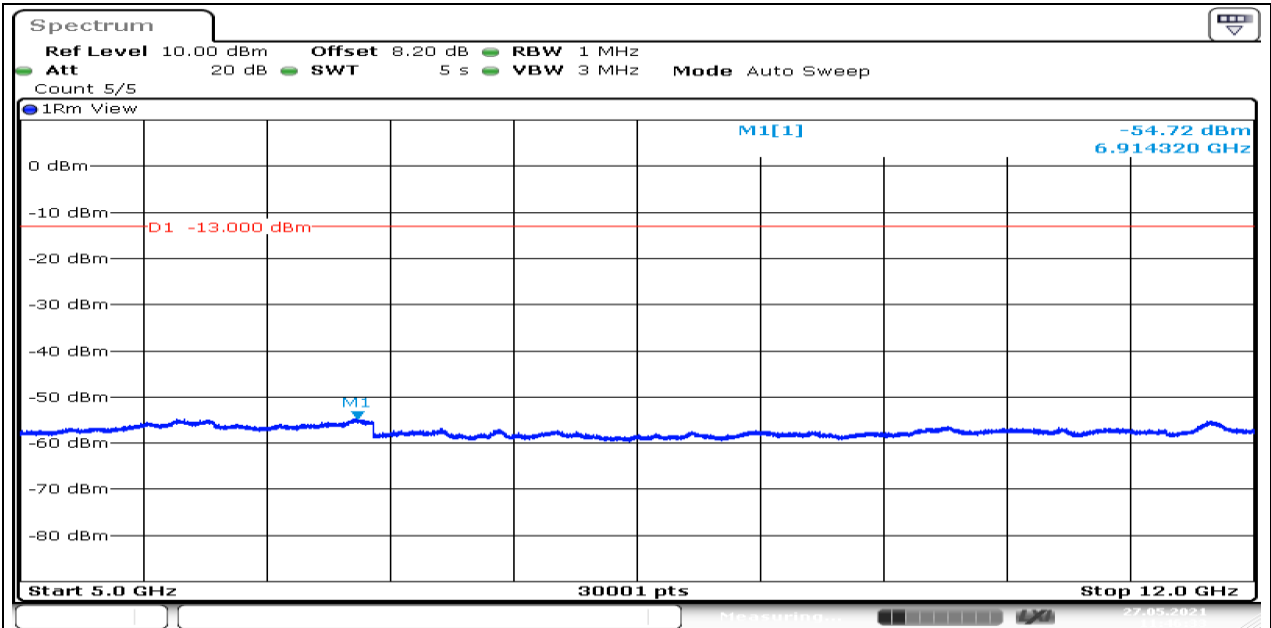
Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-30-1000-30~1000MHz@-36.8dBm--13-PASS



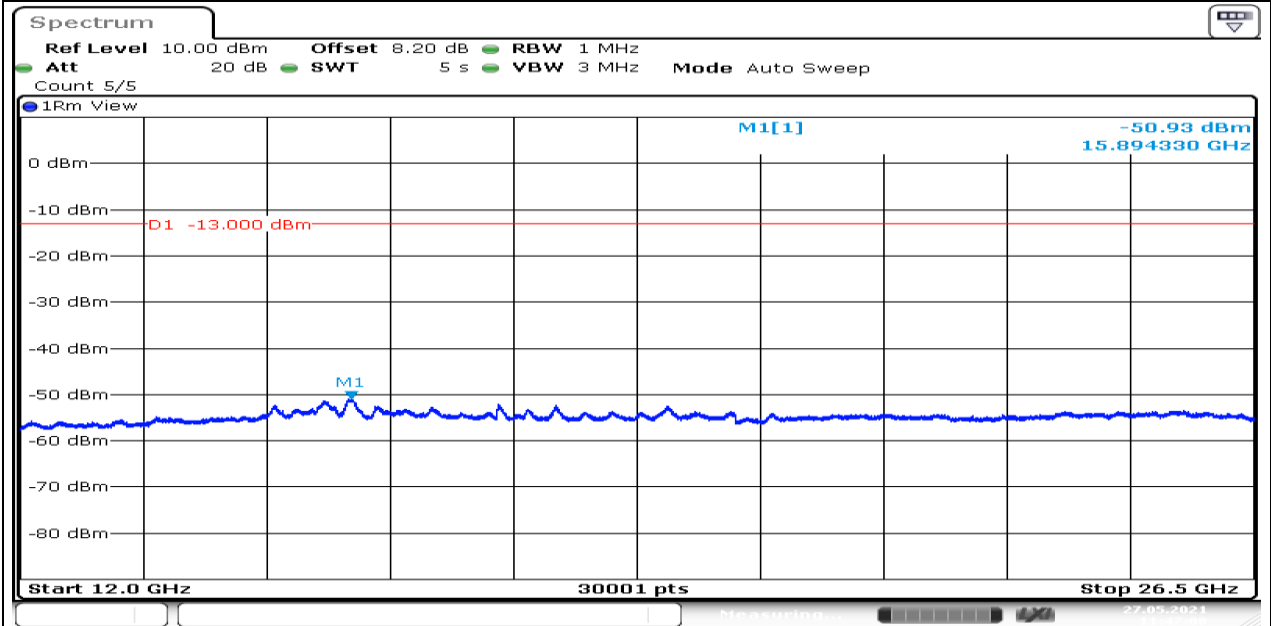
Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-1000-5000-1000~5000MHz@-41.67dBm--13-PASS



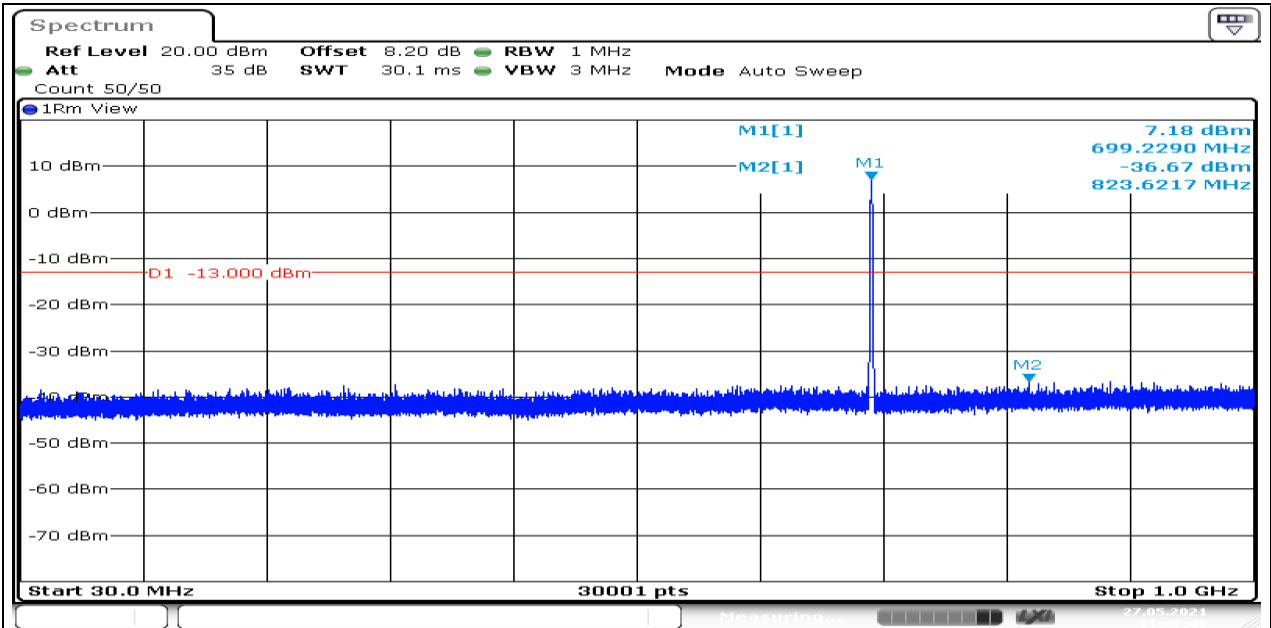
Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-5000-12000-5000~12000MHz@-54.72dBm--13-PASS



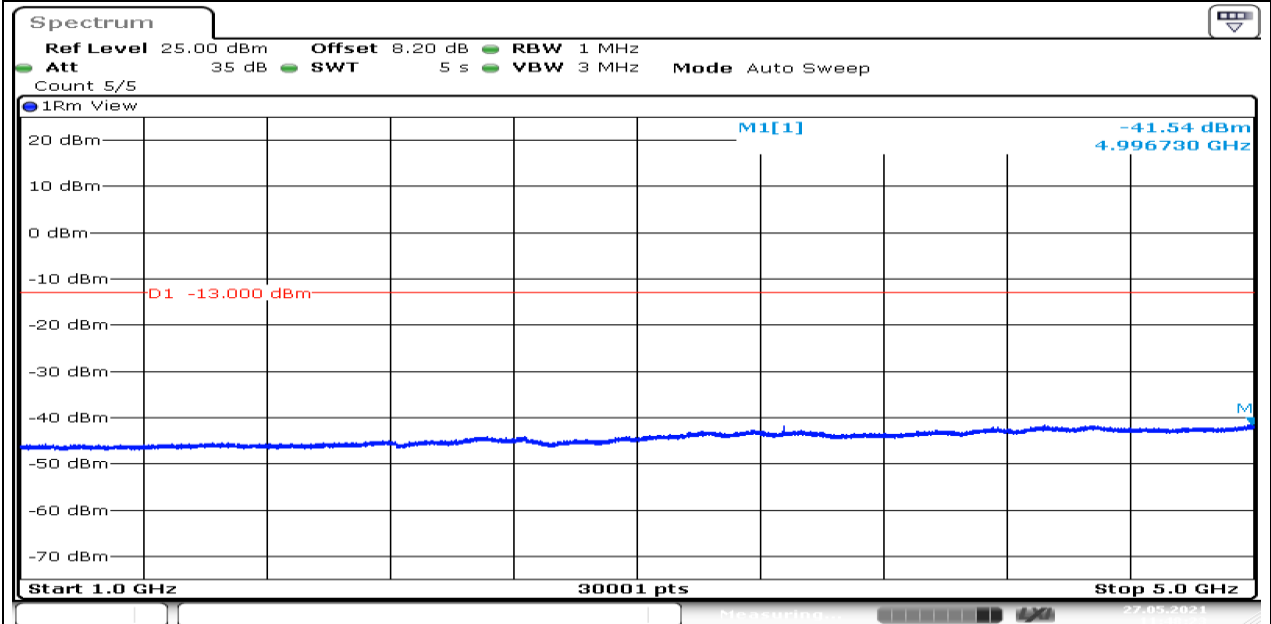
Band12-Stand-Alone-NaN-BPSK-23011-1@0-15kHz-12000-26500-12000~26500MHz@-50.93dBm--13-PASS



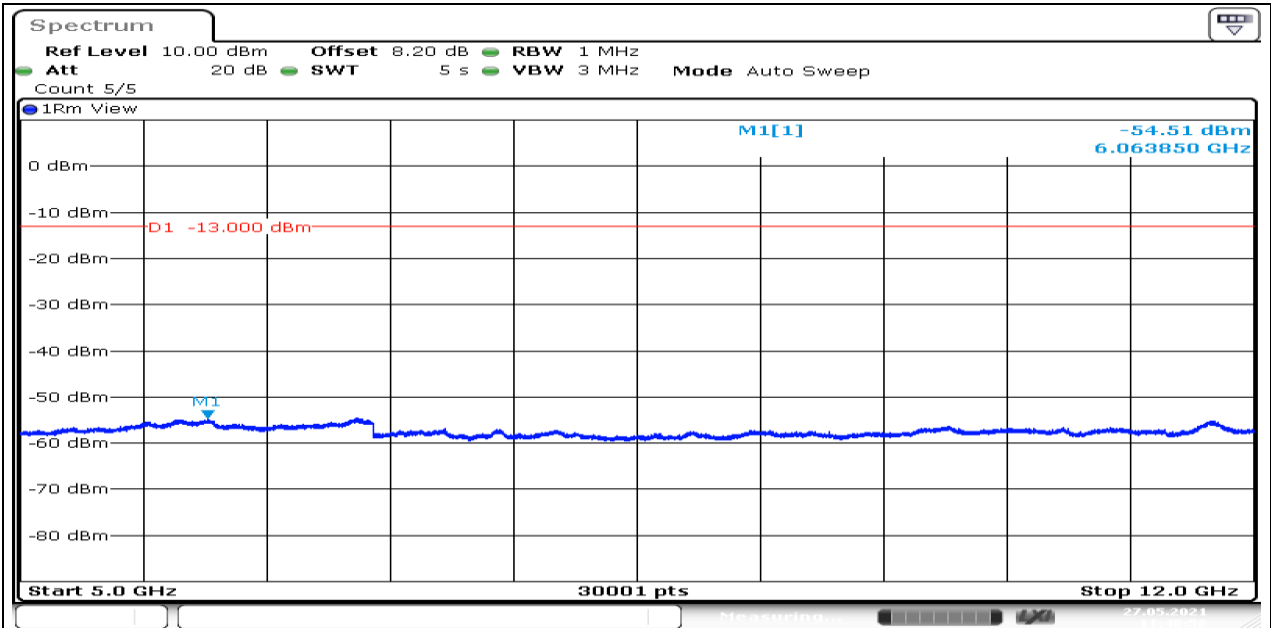
Band12-Stand-Alone-NaN-BPSK-23011-1@11-15kHz-30-1000-30~1000MHz@-36.67dBm--13-PASS



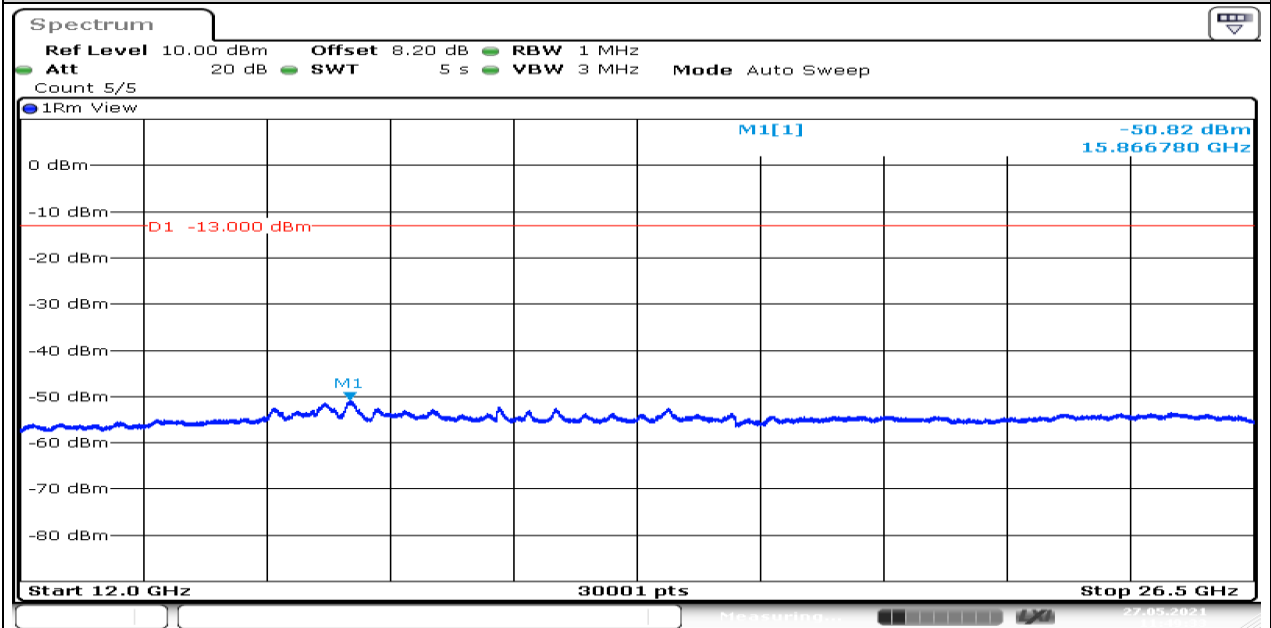
Band12-Stand-Alone-NaN-BPSK-23011-1@11-15kHz-1000-5000-1000~5000MHz@-41.54dBm--13-PASS



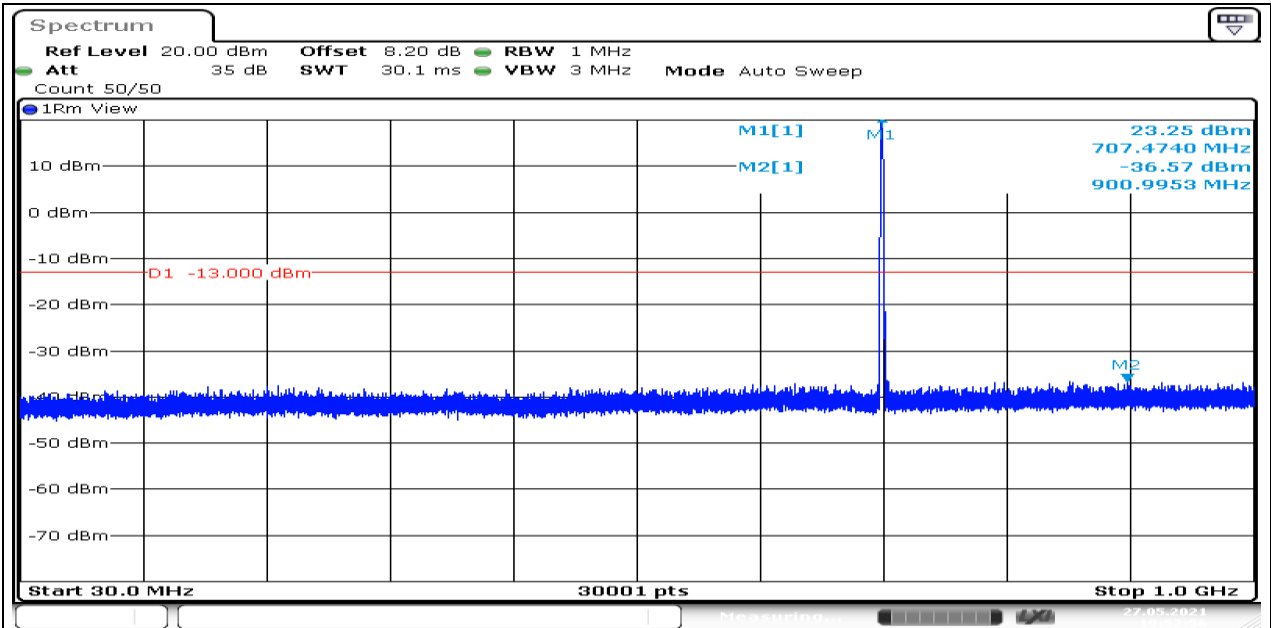
Band12-Stand-Alone-NaN-BPSK-23011-1@11-15kHz-5000-12000-5000~12000MHz@-54.51dBm--13-PASS



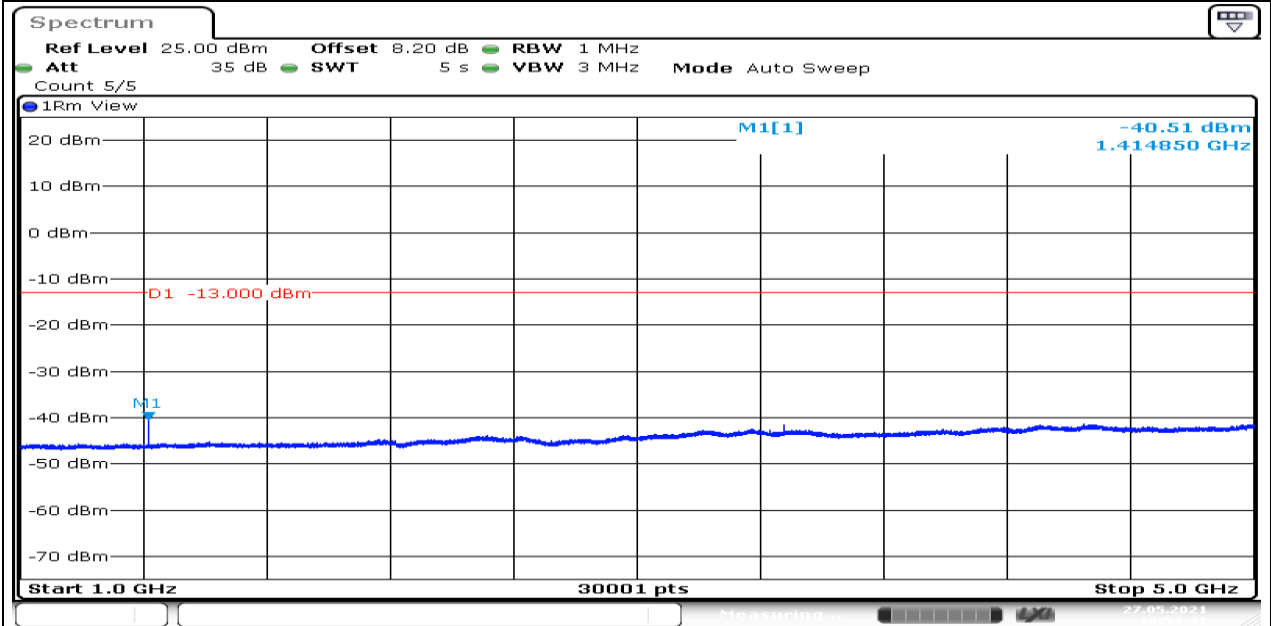
Band12-Stand-Alone-NaN-BPSK-23011-1@11-15kHz-12000-26500-12000~26500MHz@-50.82dBm--13-PASS



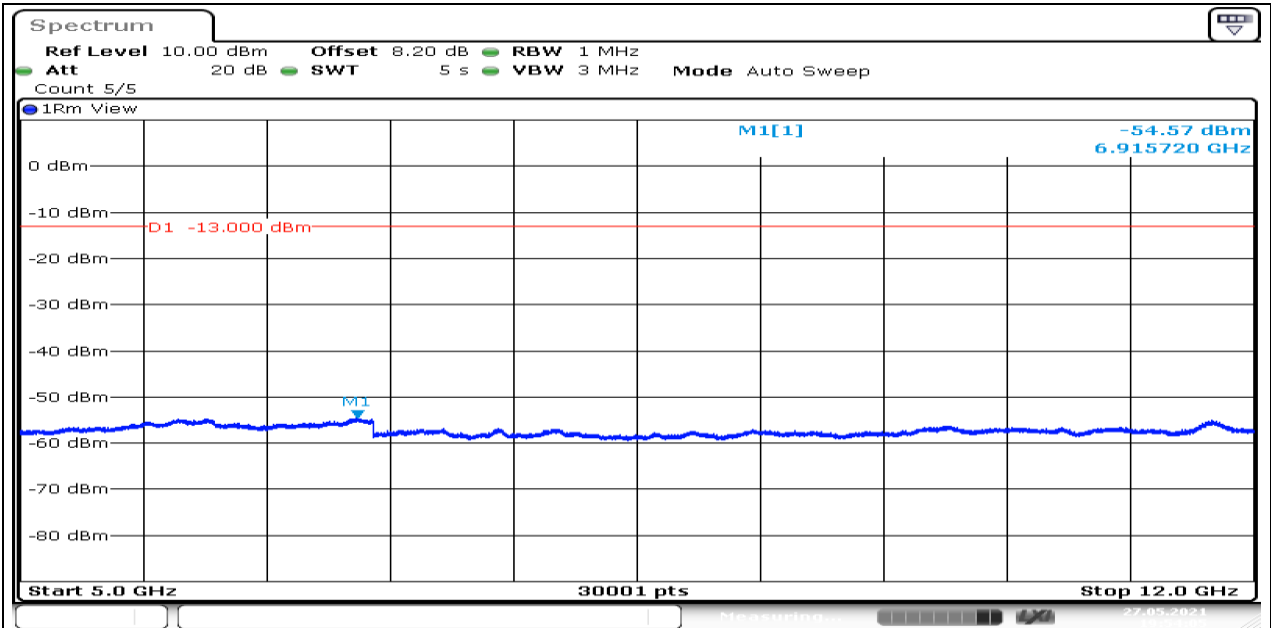
Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-30-1000-30~1000MHz@-36.57dBm--13-PASS



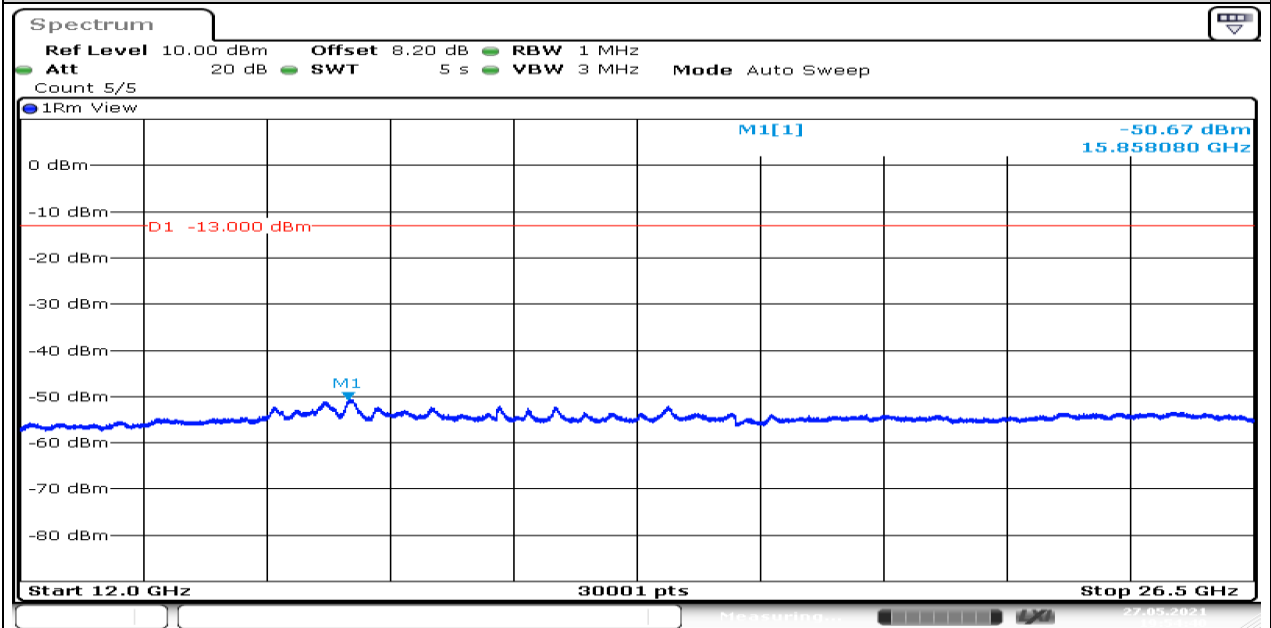
Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-1000-5000-1000~5000MHz@-40.51dBm--13-PASS



Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-5000-12000-5000~12000MHz@-54.57dBm--13-PASS

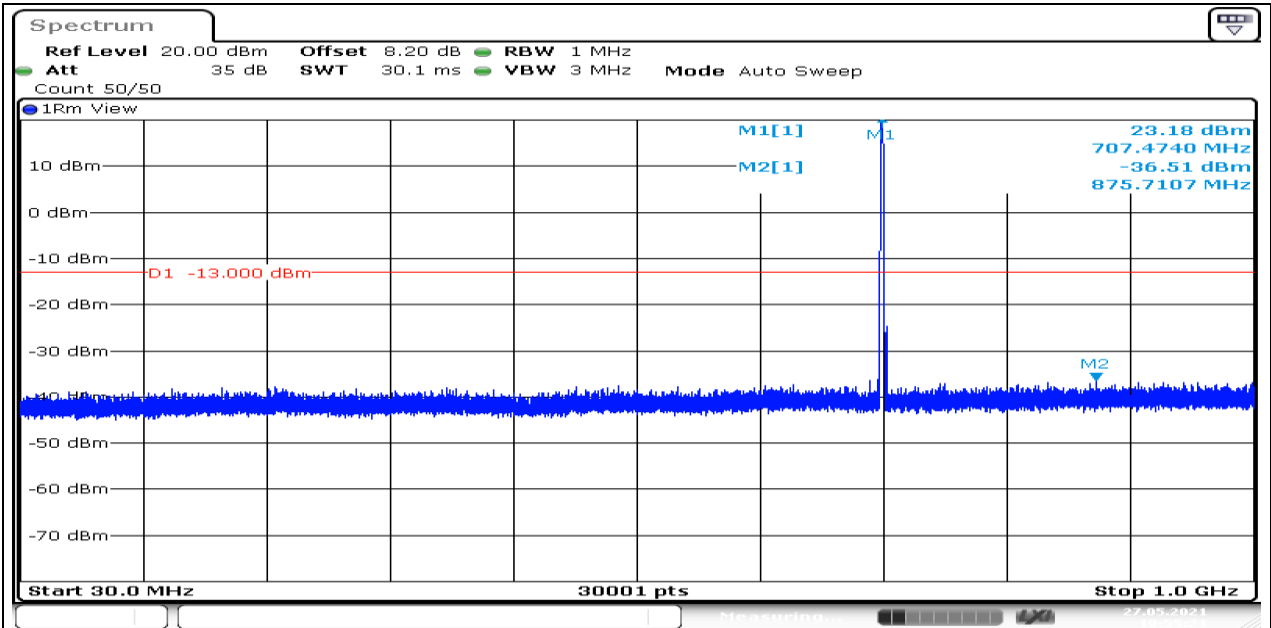


Band12-Stand-Alone-NaN-BPSK-23095-1@0-15kHz-12000-26500-12000~26500MHz@-50.67dBm--13-PASS

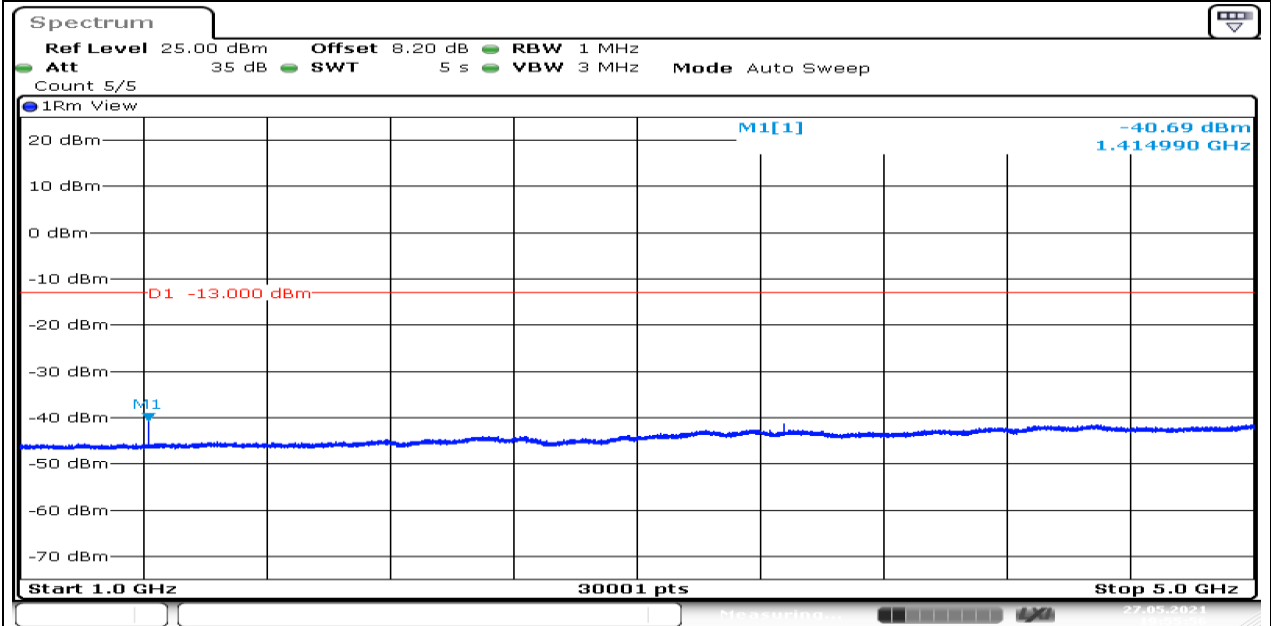


Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-30-1000-30~1000MHz@-36.51dBm--13-PASS

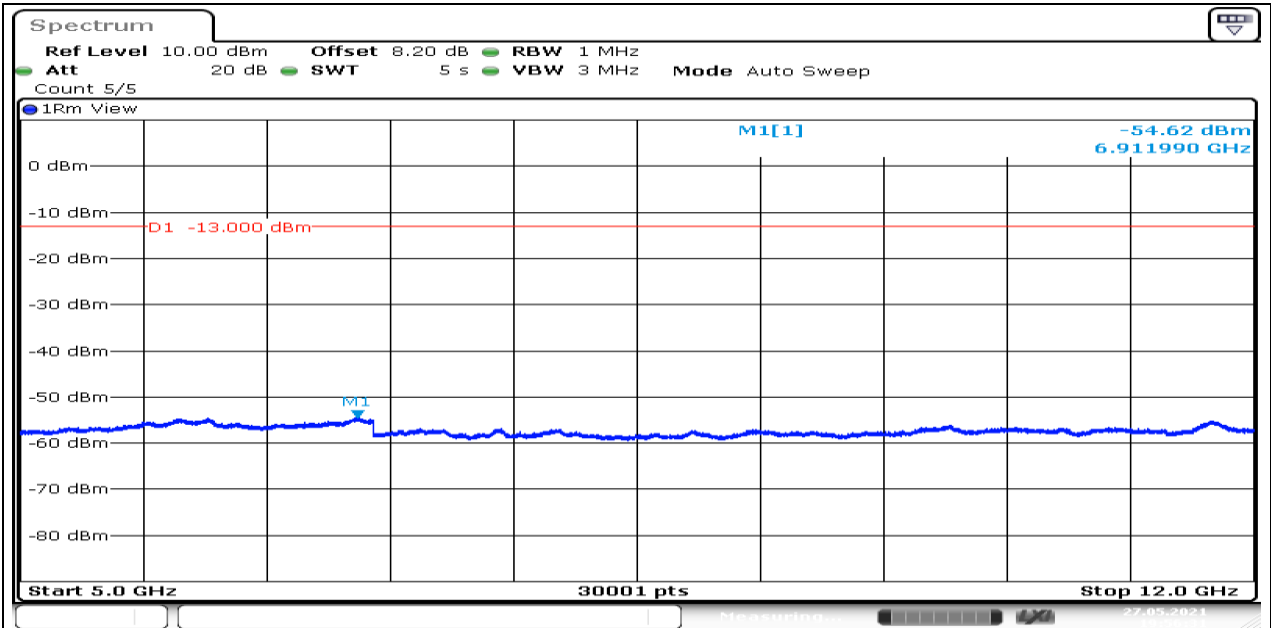




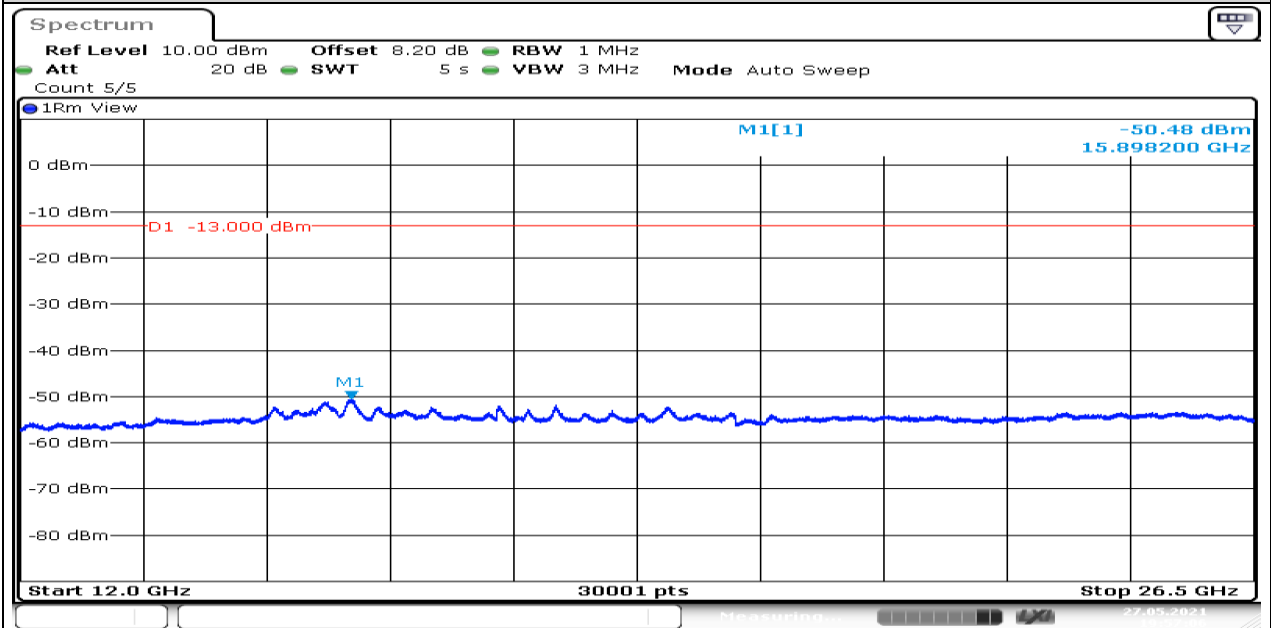
Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-1000-5000-1000~5000MHz@-40.69dBm--13-PASS



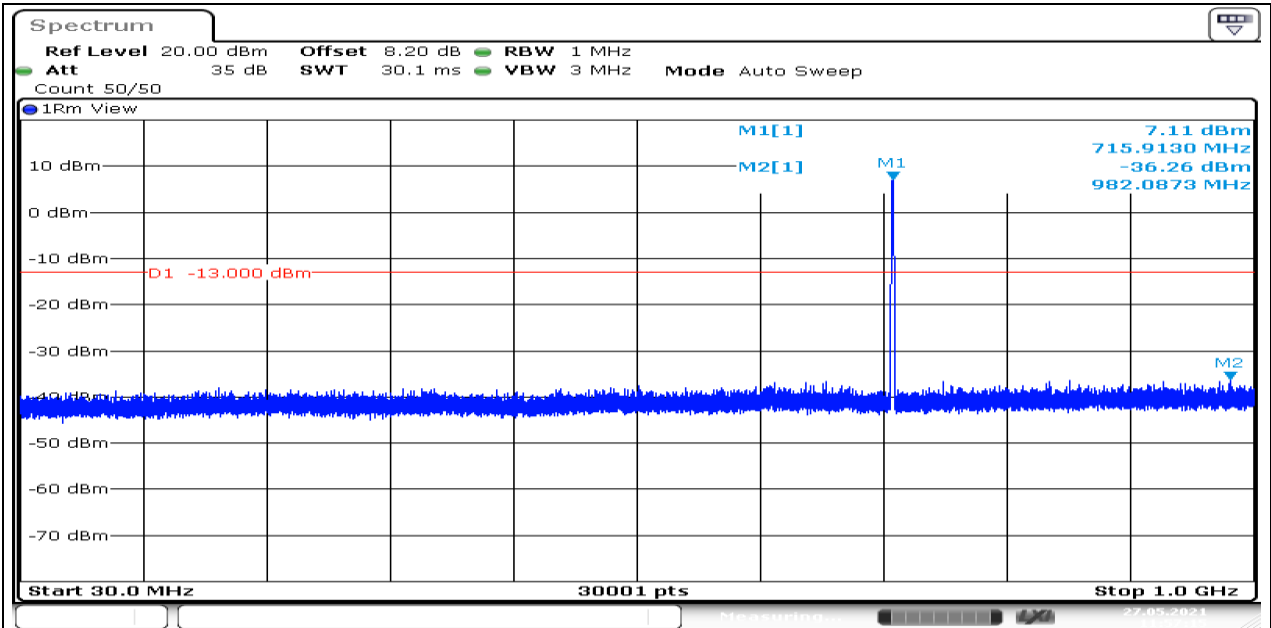
Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-5000-12000-5000~12000MHz@-54.62dBm--13-PASS



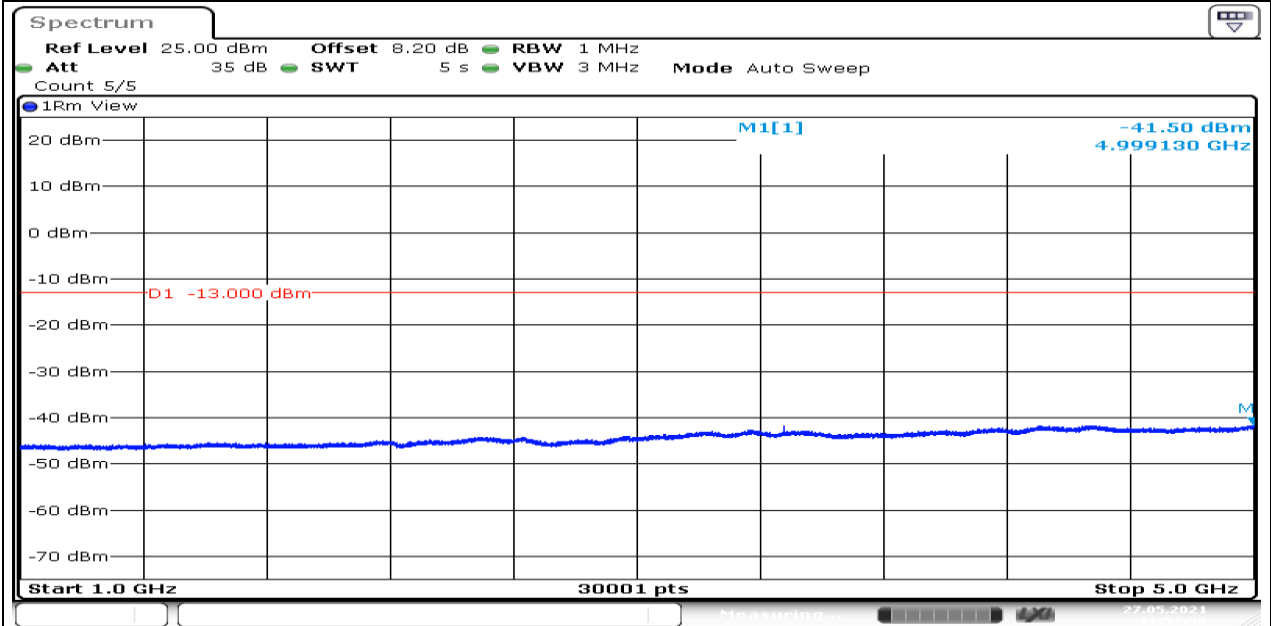
Band12-Stand-Alone-NaN-BPSK-23095-1@11-15kHz-12000-26500-12000~26500MHz@-50.48dBm--13-PASS



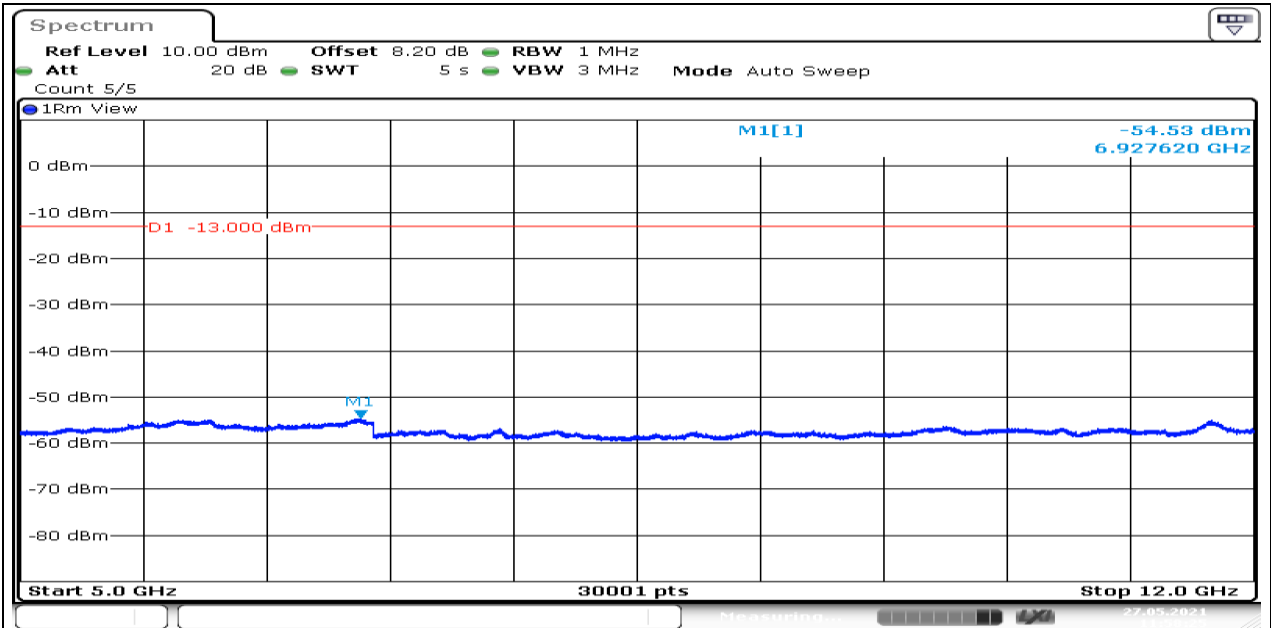
Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz-30-1000-30~1000MHz@-36.26dBm--13-PASS



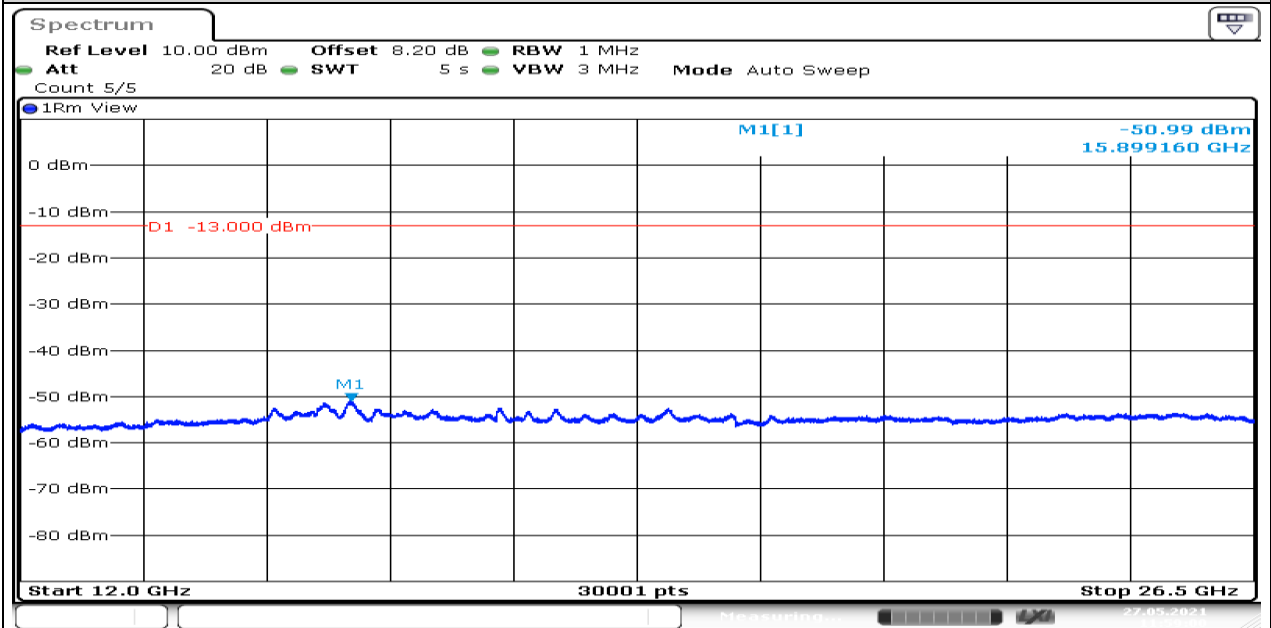
Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz-1000-5000-1000~5000MHz@-41.5dBm--13-PASS



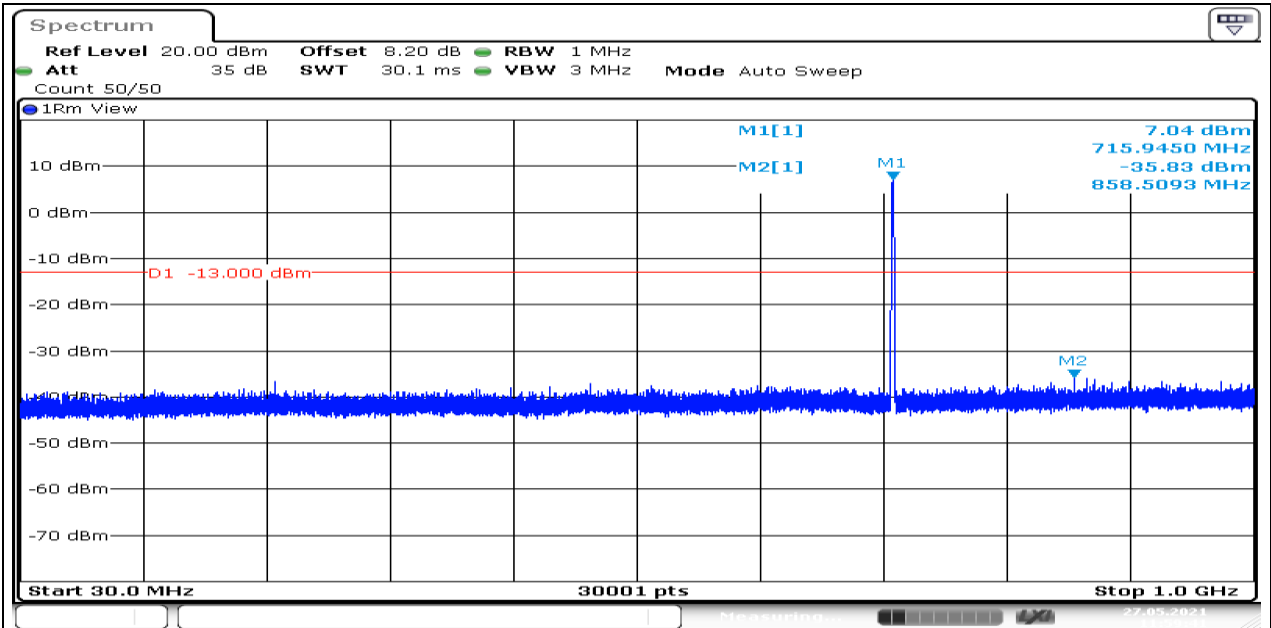
Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz-5000-12000-5000~12000MHz@-54.53dBm--13-PASS



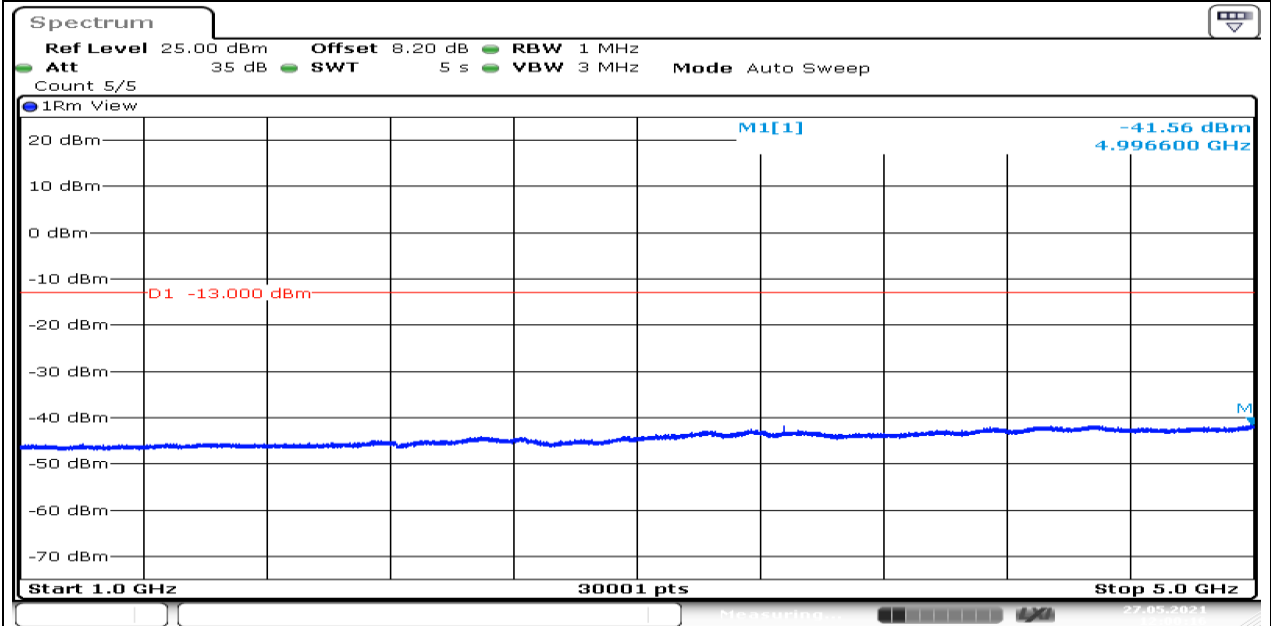
Band12-Stand-Alone-NaN-BPSK-23179-1@0-15kHz-12000-26500-12000~26500MHz@-50.99dBm--13-PASS



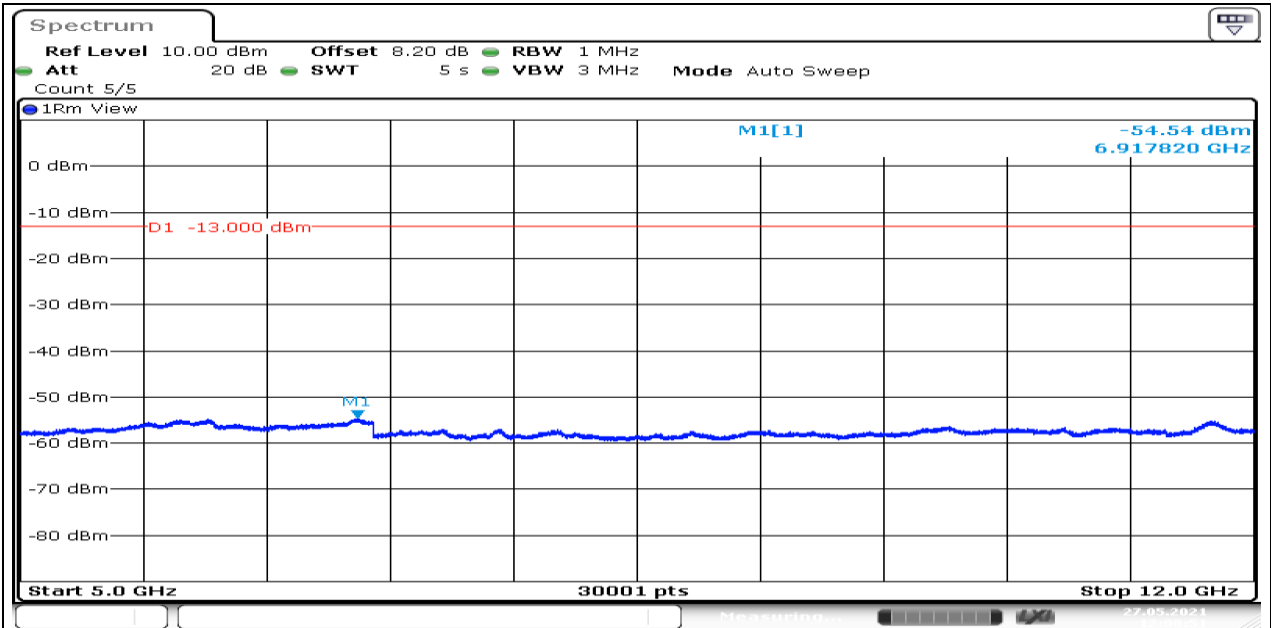
Band12-Stand-Alone-NaN-BPSK-23179-1@11-15kHz-30-1000-30~1000MHz@-35.83dBm--13-PASS



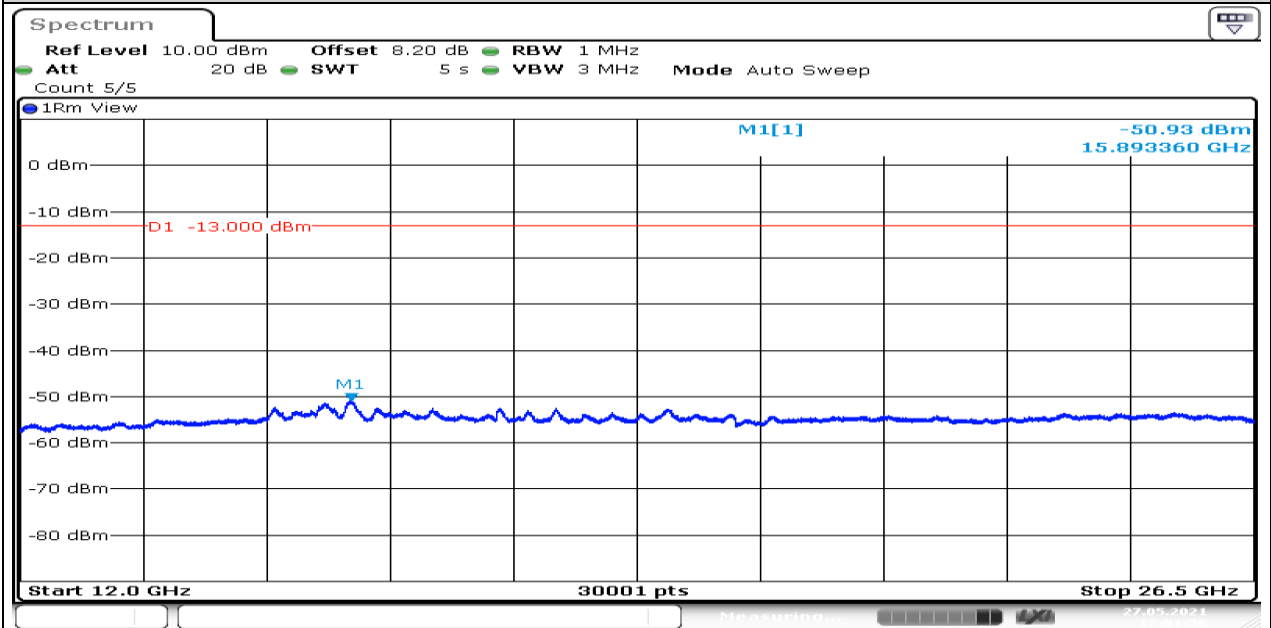
Band12-Stand-Alone-NaN-BPSK-23179-1@11-15kHz-1000-5000-1000~5000MHz@-41.56dBm--13-PASS



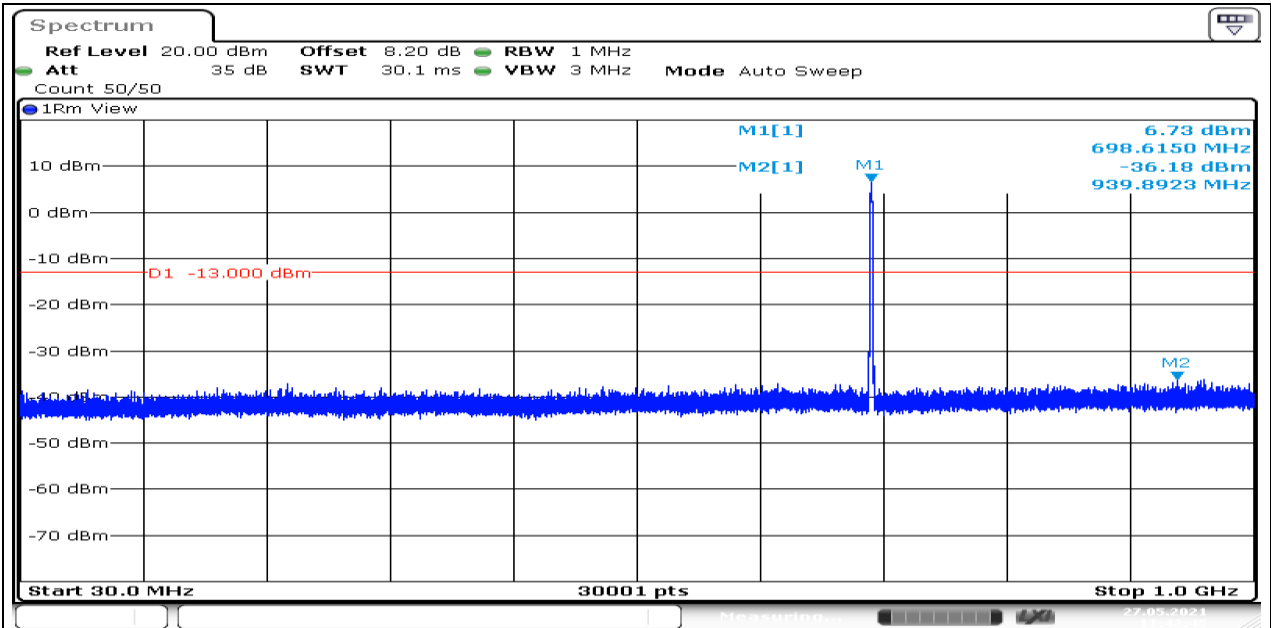
Band12-Stand-Alone-NaN-BPSK-23179-1@11-15kHz-5000-12000-5000~12000MHz@-54.54dBm--13-PASS



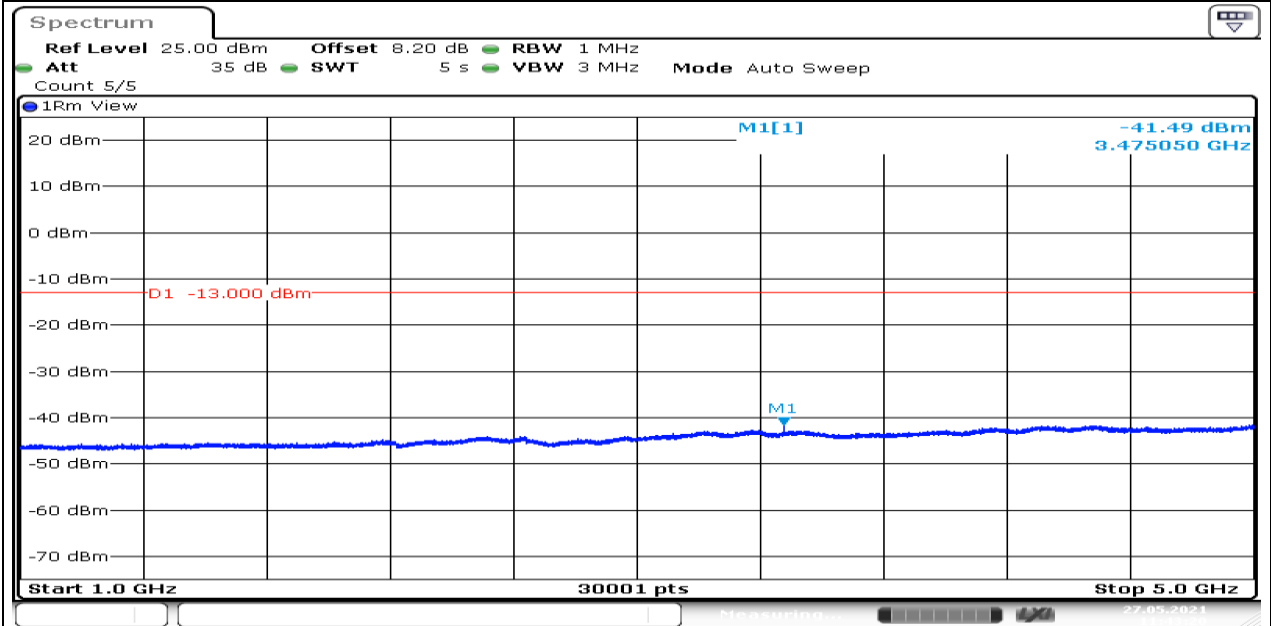
Band12-Stand-Alone-NaN-BPSK-23179-1@11-15kHz-12000-26500-12000~26500MHz@-50.93dBm--13-PASS



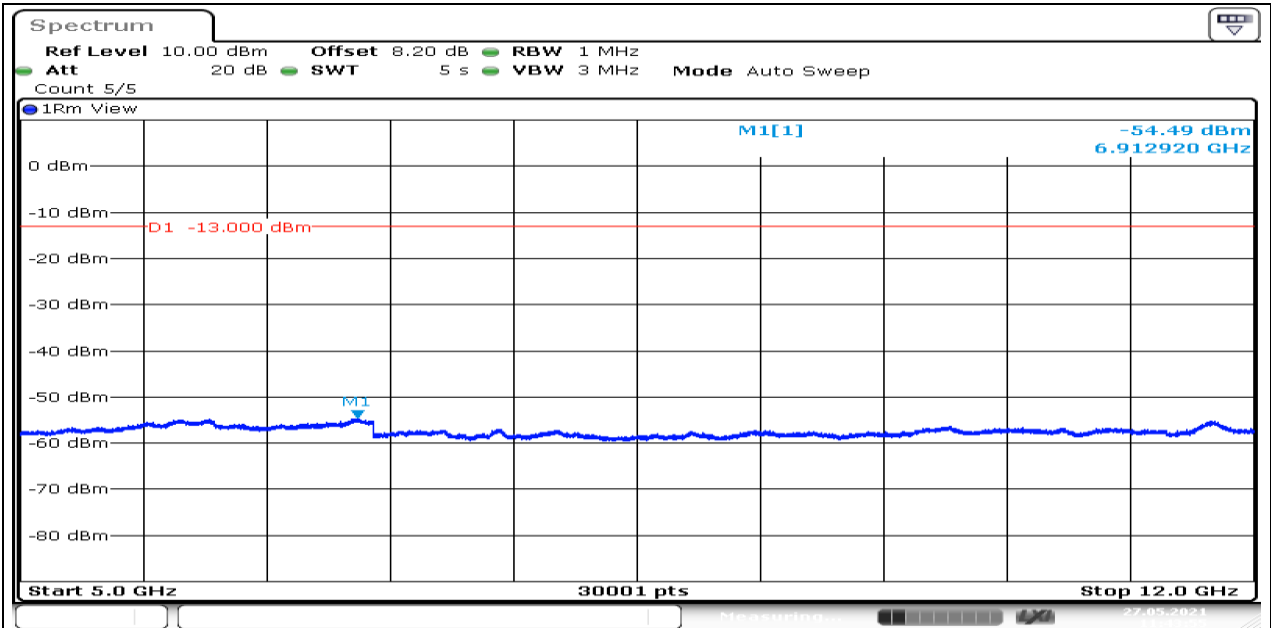
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-30-1000-30~1000MHz@-36.18dBm--13-PASS



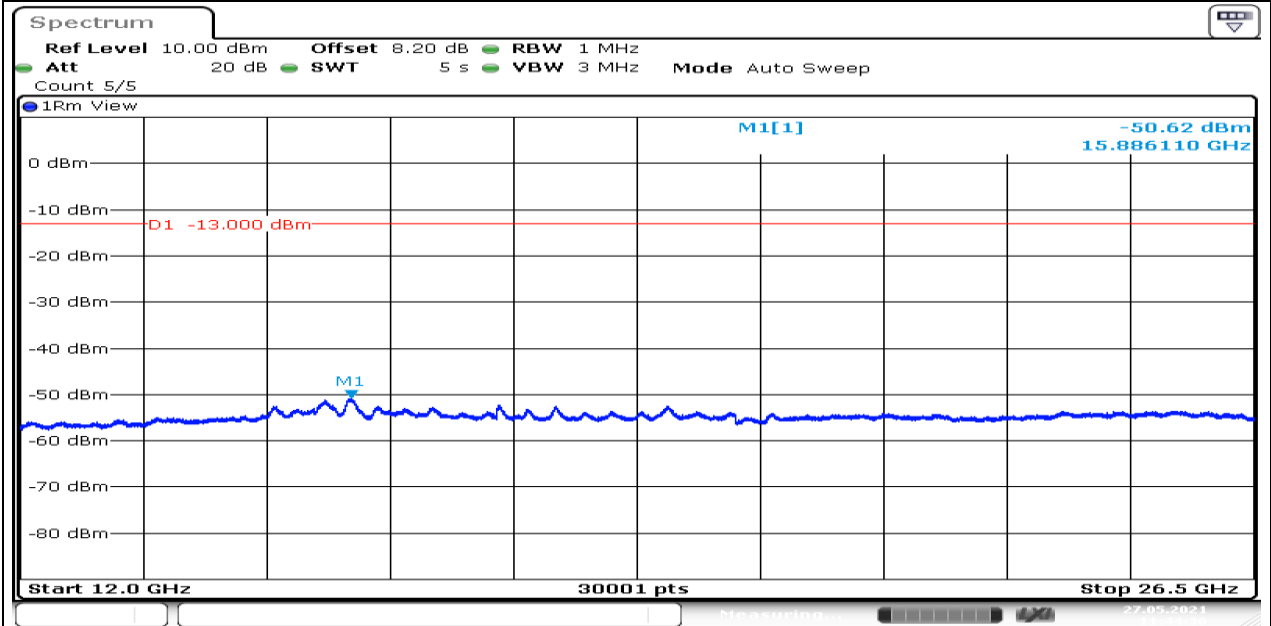
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-1000-5000-1000~5000MHz@-41.49dBm-13-PASS



Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-5000-12000-5000~12000MHz@-54.49dBm-13-PASS

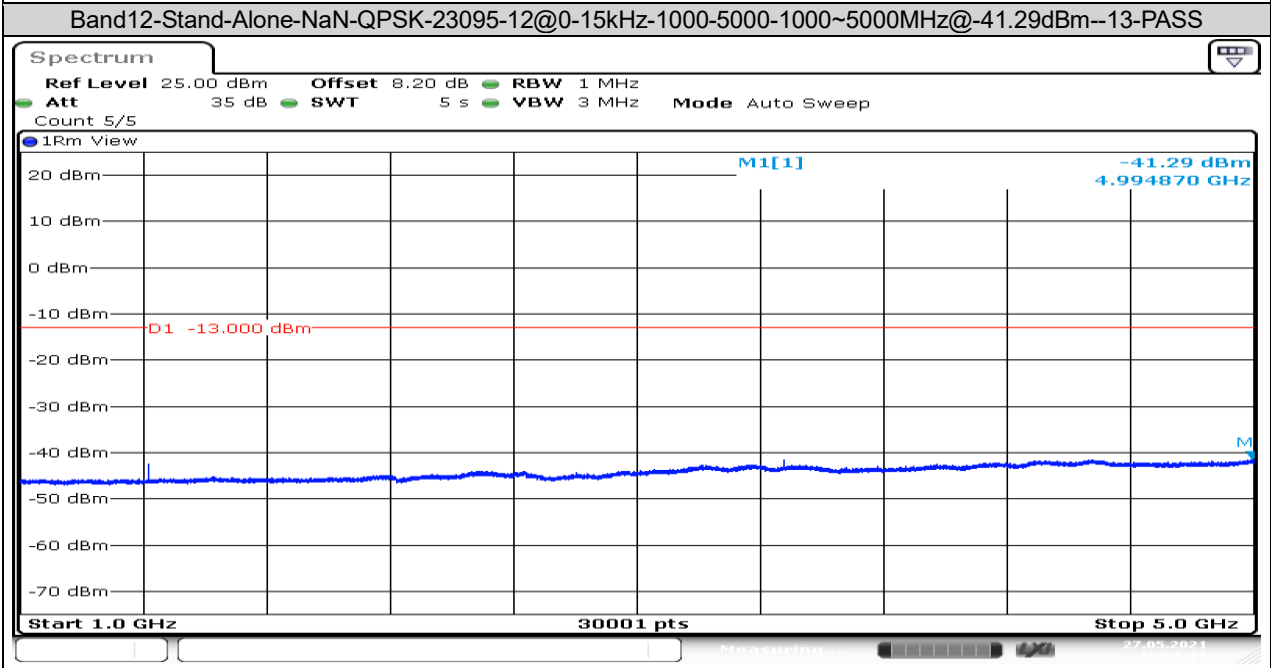
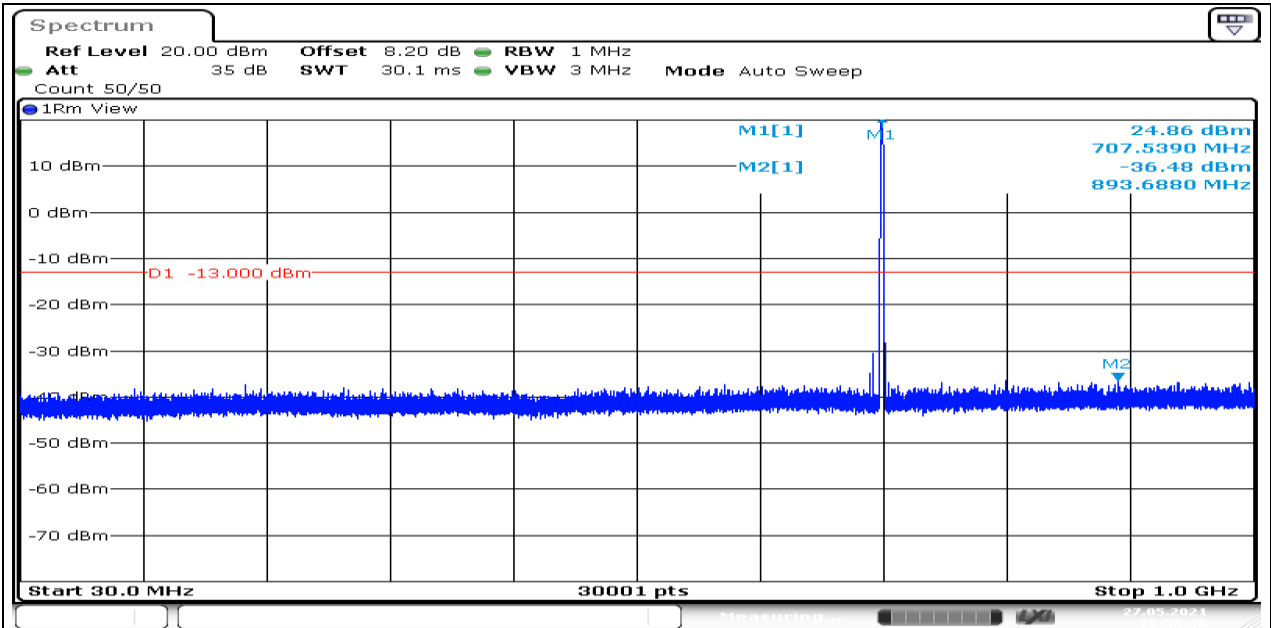


Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-12000-26500-12000~26500MHz@-50.62dBm--13-PASS



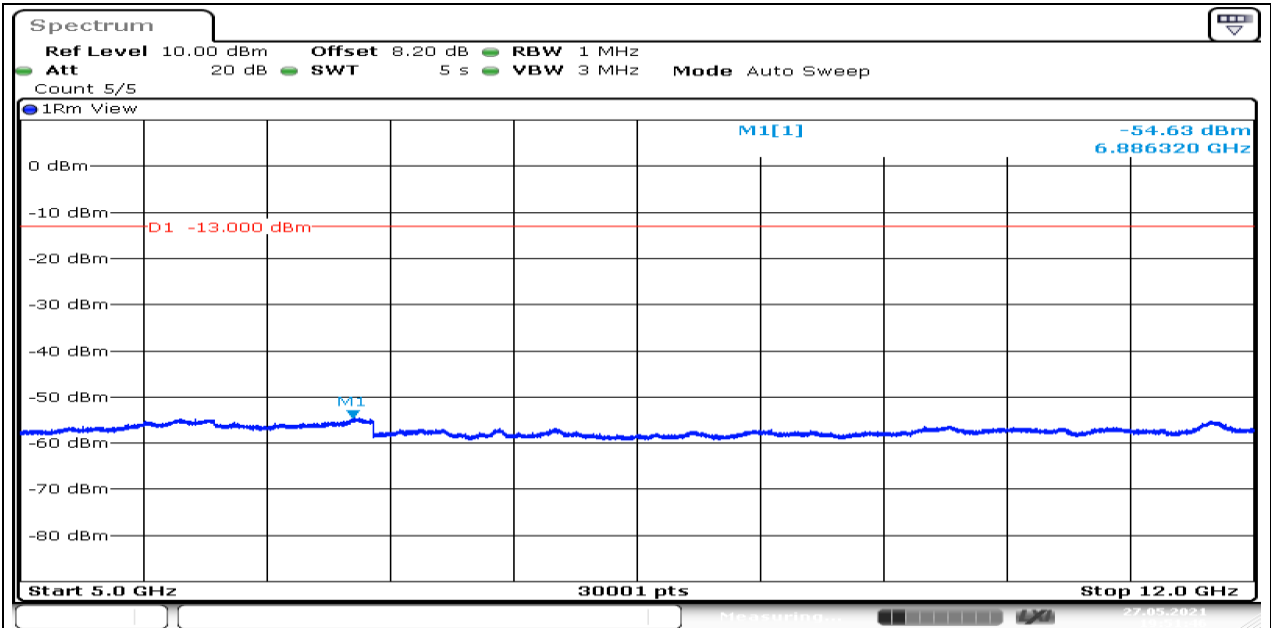
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-30-1000-30~1000MHz@-36.48dBm--13-PASS



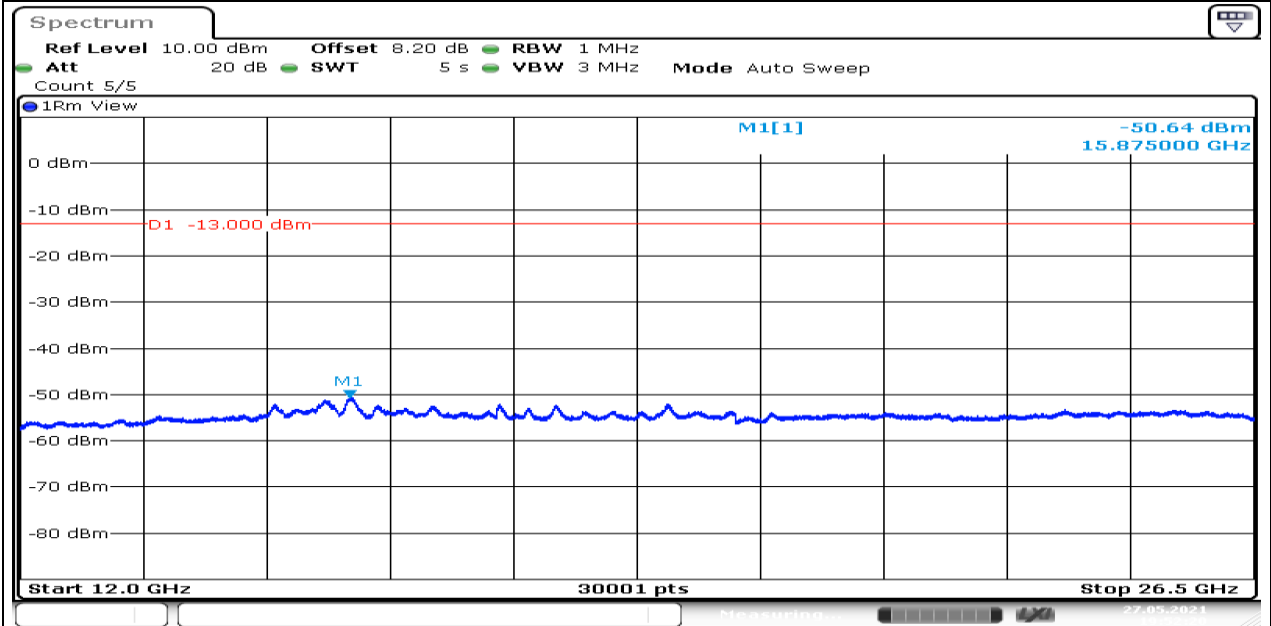


Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-1000-5000-1000~5000MHz@-41.29dBm--13-PASS

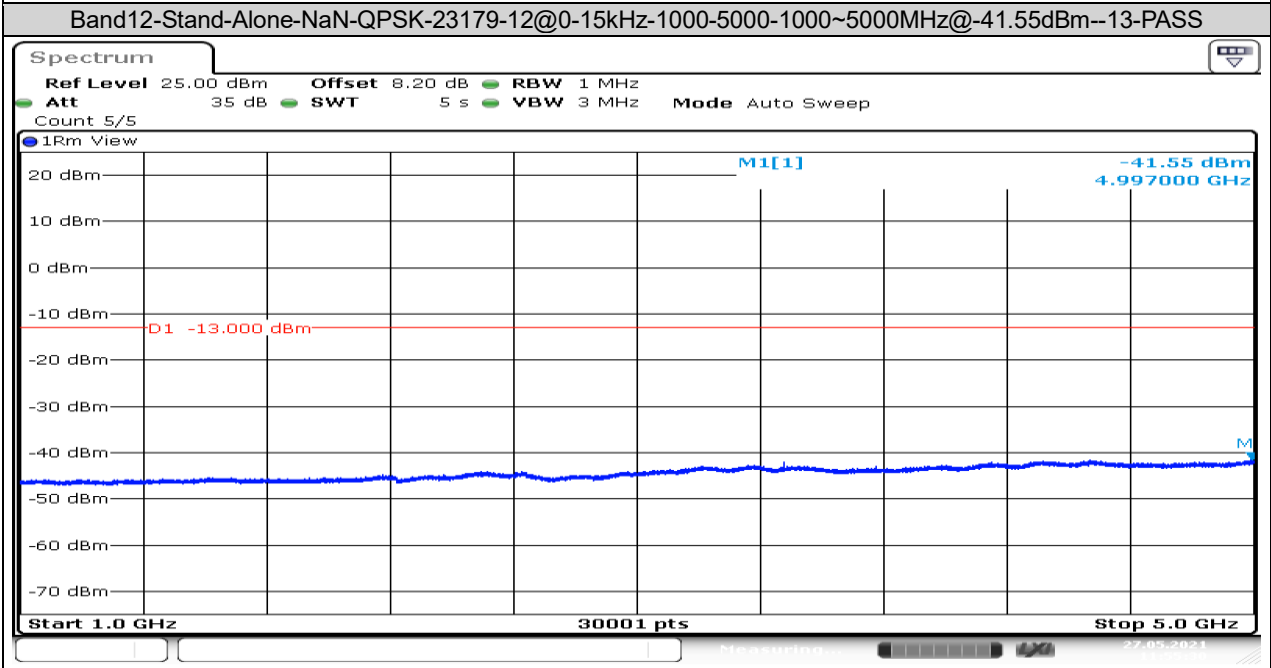
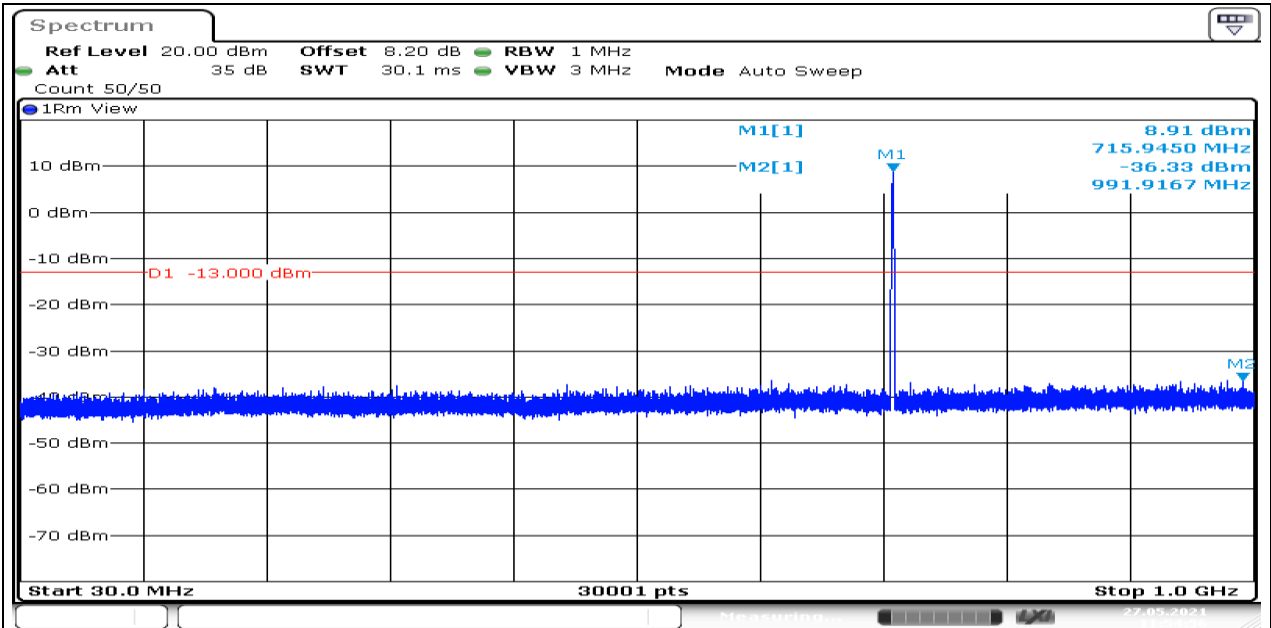
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-5000-12000-5000~12000MHz@-54.63dBm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-12000-26500-12000~26500MHz@-50.64dBm--13-PASS

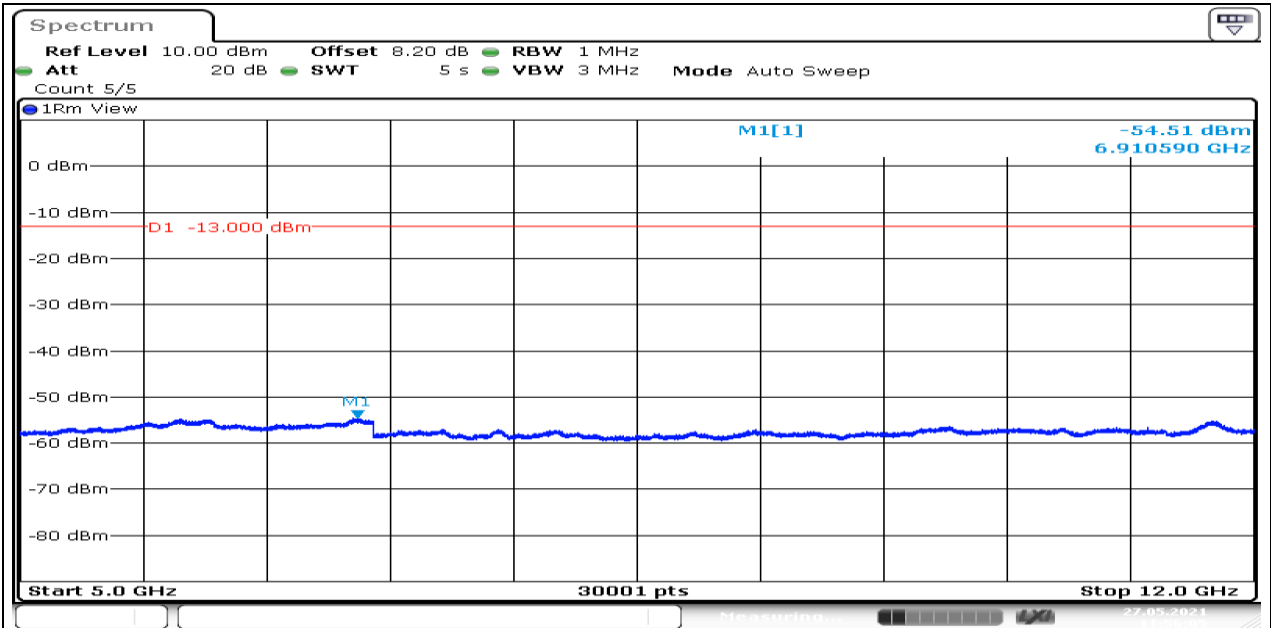


Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-30-1000-30~1000MHz@-36.33dBm--13-PASS

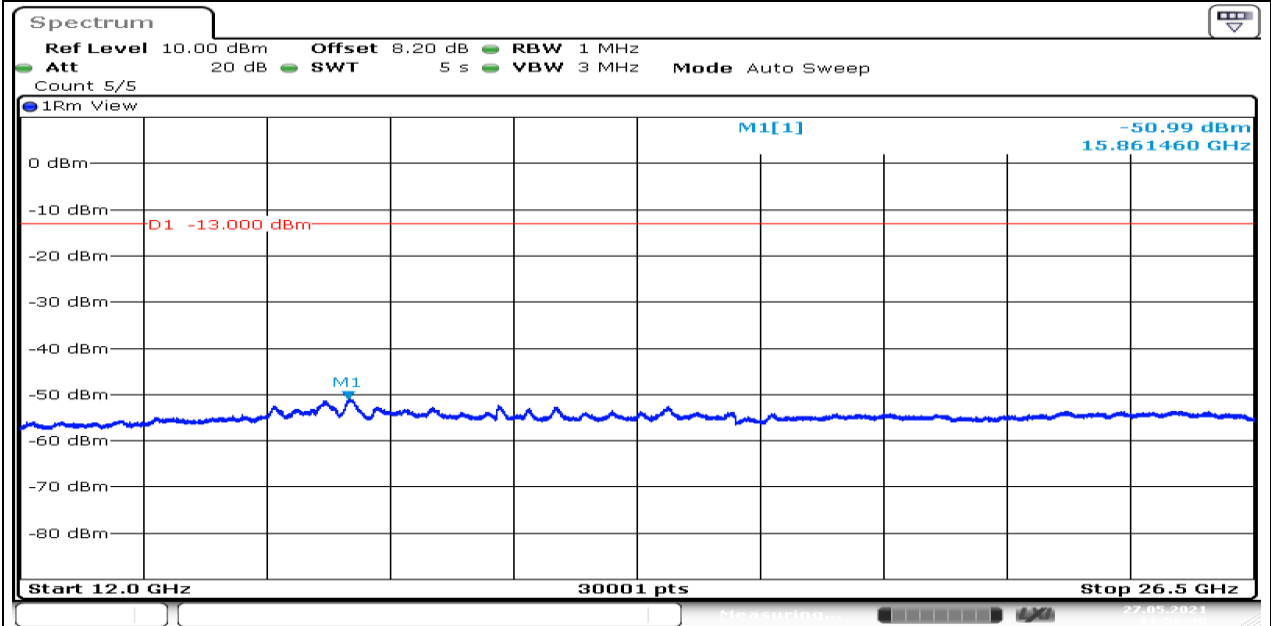


Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-1000-5000-1000~5000MHz@-41.55dBm--13-PASS

Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-5000-12000-5000~12000MHz@-54.51dBm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-12000-26500-12000~26500MHz@-50.99dBm--13-PASS



## APPENDIX D.6: FREQUENCY STABILITY FOR NB-IOT

### Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	HV	NT	-7.61	-0.010756	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	LV	NT	10.56	0.014926	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	NT	-6.95	-0.009823	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	HV	NT	-7.75	-0.010954	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	LV	NT	9.84	0.013908	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	NT	-5.92	-0.008367	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	HV	NT	8.68	0.012269	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	LV	NT	11.20	0.015830	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	NT	10.20	0.014417	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	HV	NT	6.97	0.009852	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	LV	NT	12.59	0.017795	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	NT	8.03	0.011350	±2.5	PASS

Temperature												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	50	-3.00	-0.004240	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	-40	-5.12	-0.007237	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	80	-2.46	-0.003477	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	60	-3.99	-0.005640	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	85	-3.16	-0.004466	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	40	-3.71	-0.005244	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	30	-3.71	-0.005244	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	20	-3.00	-0.004240	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	10	-3.20	-0.004523	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	0	-3.72	-0.005258	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	-10	-4.38	-0.006191	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	-20	-4.46	-0.006304	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	-30	-4.23	-0.005979	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@0	NV	70	-2.68	-0.003788	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	20	-3.13	-0.004424	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	70	-2.68	-0.003788	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	60	-3.85	-0.005442	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	50	-3.68	-0.005201	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	40	-2.78	-0.003929	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	30	-4.13	-0.005837	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	10	-3.85	-0.005442	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	0	-4.19	-0.005922	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	-10	-3.98	-0.005625	±2.5	PASS

Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	-20	-4.15	-0.005866	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	80	-3.18	-0.004495	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	-40	-6.07	-0.008580	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	85	-3.66	-0.005173	±2.5	PASS
Band12	Stand-Alone	3.75kHz	NaN	QPSK	23095	1@47	NV	-30	-5.71	-0.008071	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	50	7.24	0.010233	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	-40	6.78	0.009583	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	80	7.60	0.010742	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	60	7.61	0.010756	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	85	7.61	0.010756	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	40	7.47	0.010558	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	30	5.69	0.008042	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	20	8.53	0.012057	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	10	8.13	0.011491	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	0	8.34	0.011788	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	-10	8.84	0.012495	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	-20	6.29	0.008890	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	-30	8.38	0.011845	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@0	NV	70	10.17	0.014375	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	30	8.45	0.011943	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	80	9.56	0.013512	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	70	8.20	0.011590	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	60	8.53	0.012057	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	50	6.84	0.009668	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	40	9.93	0.014035	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	20	7.41	0.010473	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	10	8.43	0.011915	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	0	8.25	0.011661	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	-10	7.54	0.010657	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	-20	6.57	0.009286	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	-40	6.58	0.009300	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	85	7.81	0.011039	±2.5	PASS
Band12	Stand-Alone	15kHz	NaN	QPSK	23095	1@11	NV	-30	8.58	0.012127	±2.5	PASS