

# APPENDIX E: TEST RESULTS OF BAND 13 FOR NB-IOT OPERATION

<b>APPENDIX E: TEST RESULTS OF BAND 13 FOR NB-IOT OPERATION</b> .....	1
<b>APPENDIX E.1: EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR NB-IOT</b> .....	2
Test Result.....	2
<b>APPENDIX E.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR NB-IOT</b> .....	4
Test Result.....	4
Test Graphs .....	5
<b>APPENDIX E.3: EMISSION BANDWIDTH FOR NB-IOT</b> .....	10
Test Result.....	10
Test Graphs .....	11
<b>APPENDIX E.4: BAND EDGE FOR NB-IOT</b> .....	19
Test Result.....	19
Test Graphs .....	20
<b>APPENDIX E.5: CONDUCTED SPURIOUS EMISSION FOR NB-IOT</b> .....	38
Test Result.....	38
Test Graphs .....	40
<b>APPENDIX E.6: FREQUENCY STABILITY FOR NB-IOT</b> .....	70
Test Result.....	70

## APPENDIX E.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		
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@0	6.33	6.32	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@47	6.24	6.23	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23182	1@0	23.31	23.30	0.214	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23182	1@47	23.27	23.26	0.212	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	23.22	23.21	0.209	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@47	23.12	23.11	0.205	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23278	1@0	23.23	23.22	0.210	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23278	1@47	23.18	23.17	0.207	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@0	6.23	6.22	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@47	6.14	6.13	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	6.36	6.35	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	6.32	6.31	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23182	1@0	23.37	23.36	0.217	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23182	1@47	23.31	23.30	0.214	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	23.33	23.32	0.215	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	23.23	23.22	0.210	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23278	1@0	23.31	23.30	0.214	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23278	1@47	23.25	23.24	0.211	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	6.24	6.23	0.004	3	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	6.19	6.18	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	6.11	6.10	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	6.09	6.08	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	3@3	6.31	6.30	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23182	1@0	21.3	21.29	0.135	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23182	1@11	21.12	21.11	0.129	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23182	3@3	23.57	23.56	0.227	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	21.03	21.02	0.126	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	21.02	21.01	0.126	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	3@3	23.47	23.46	0.222	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23278	1@0	21.06	21.05	0.127	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23278	1@11	21.08	21.07	0.128	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23278	3@3	23.49	23.48	0.223	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	6.08	6.07	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	5.99	5.98	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	3@3	6.05	6.04	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@0	6.35	6.34	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@11	6.18	6.17	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	3@3	6.22	6.21	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	1@0	21.44	21.43	0.139	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	1@11	21.37	21.36	0.137	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	3@3	23.56	23.55	0.226	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	21.29	21.28	0.134	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	21.18	21.17	0.131	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	3@3	23.47	23.46	0.222	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	1@0	21.29	21.28	0.134	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	1@11	21.19	21.18	0.131	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	3@3	23.59	23.58	0.228	3	PASS

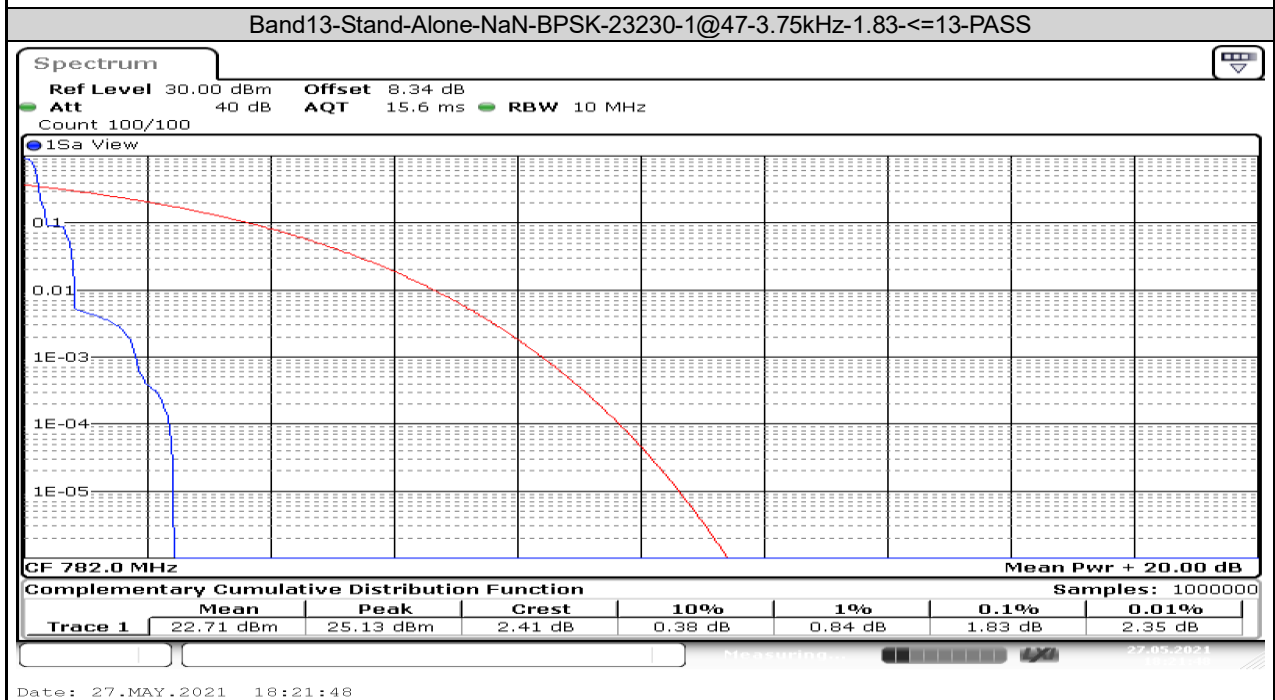
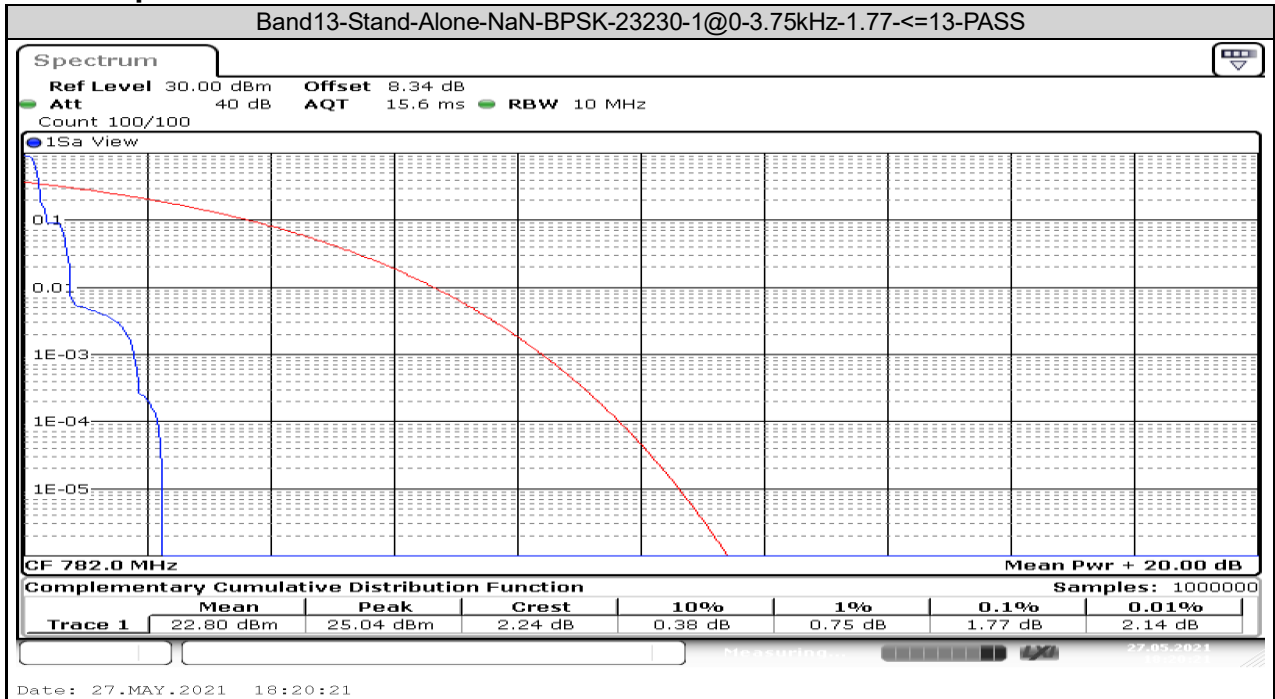
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@0	6.17	6.16	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@11	5.97	5.96	0.004	3	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	3@3	6.16	6.15	0.004	3	PASS

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

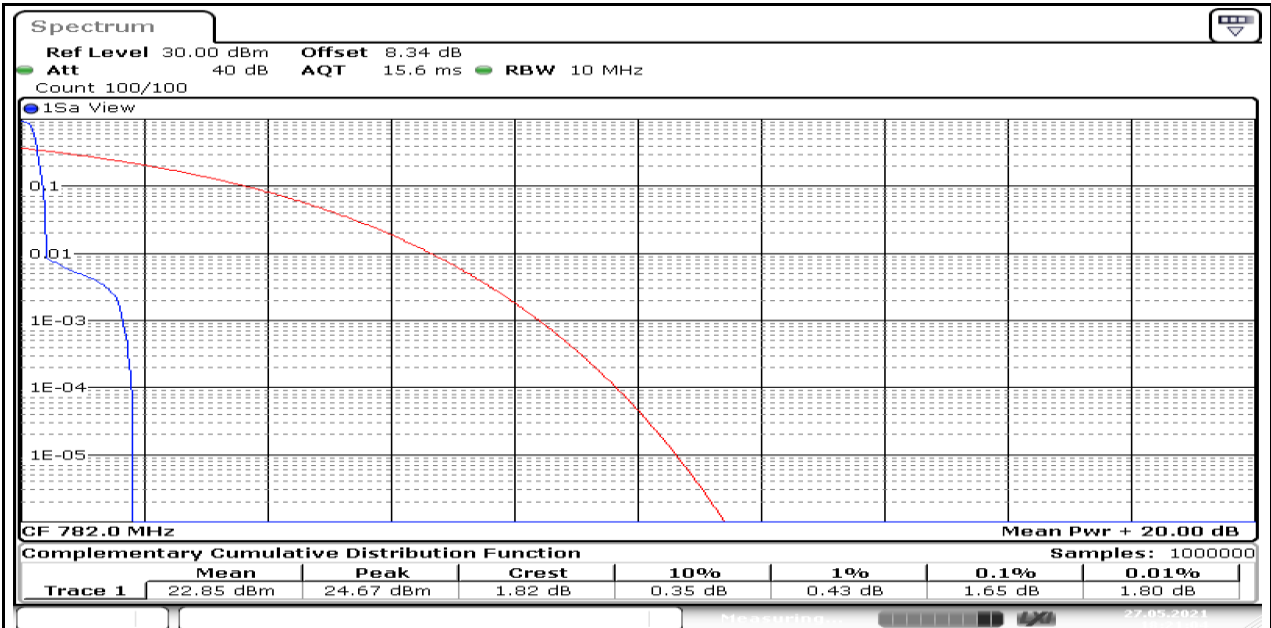
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	1.77	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@47	1.83	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	1.65	<=13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	1.65	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	11.42	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	4.14	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	3@3	9.51	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	8.87	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	10.49	<=13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	3@3	9.42	<=13	PASS

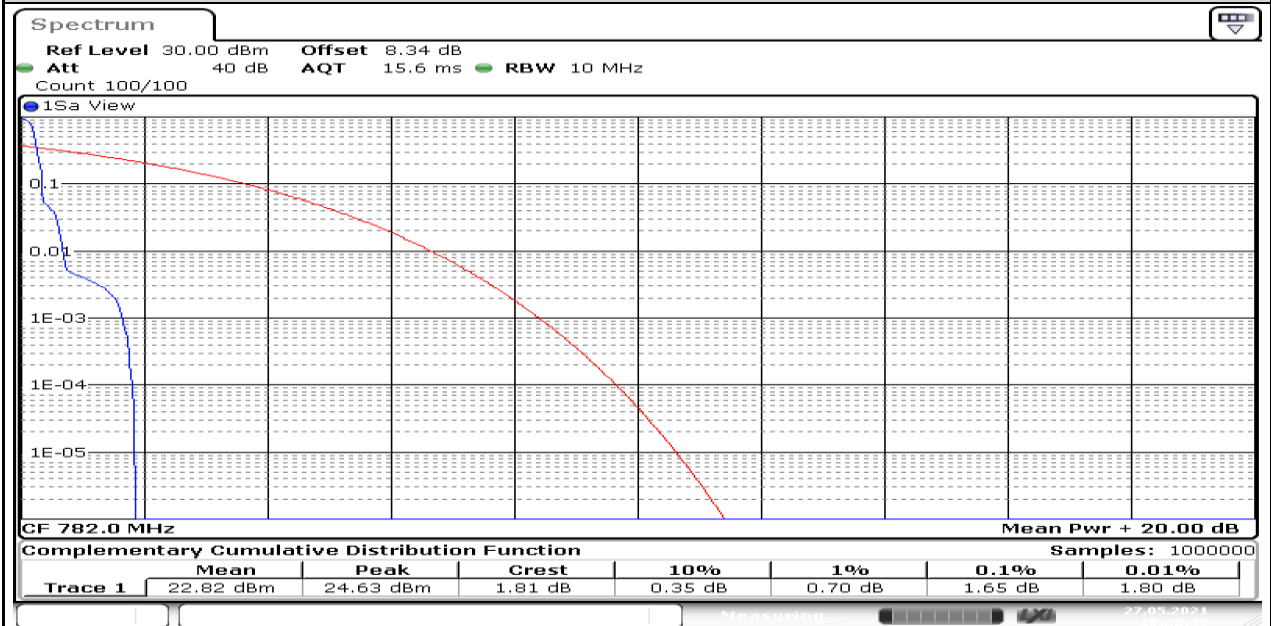
### Test Graphs



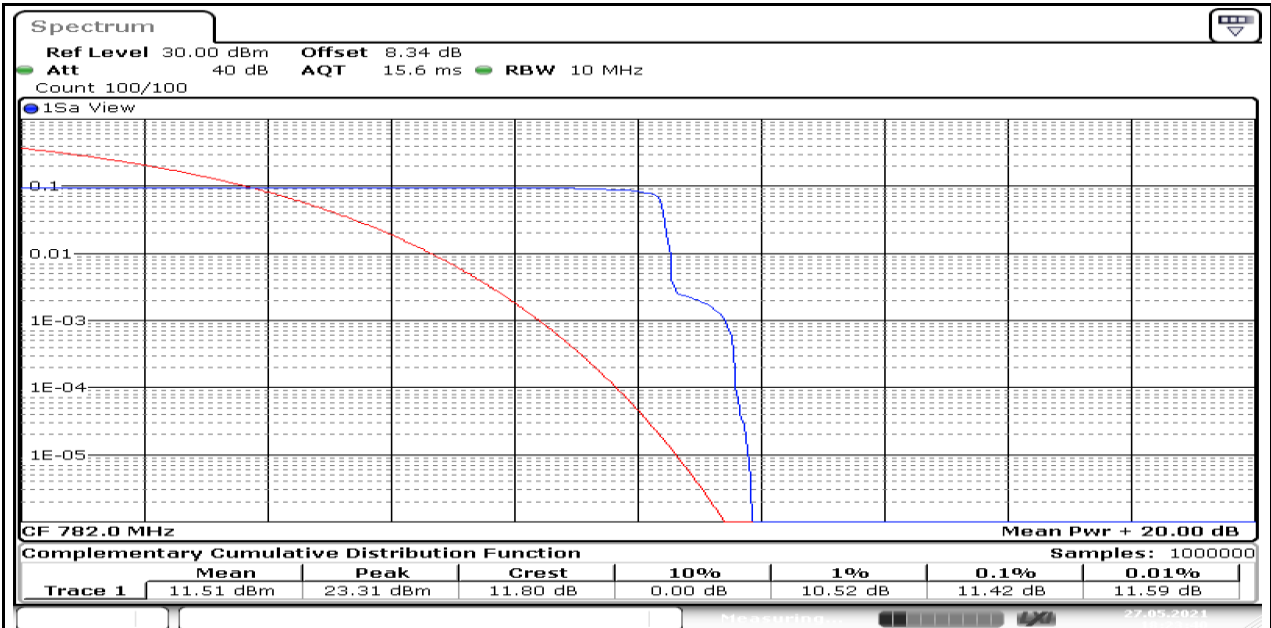
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-1.65-<=13-PASS



Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-1.65-<=13-PASS

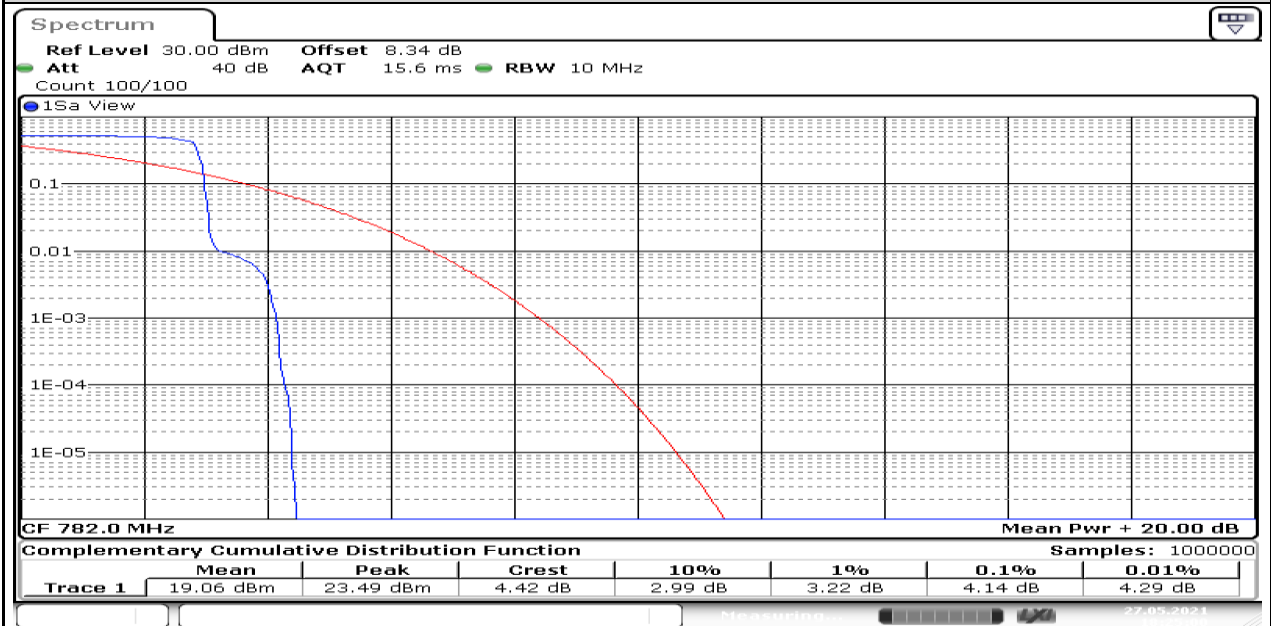


Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-11.42-<=13-PASS



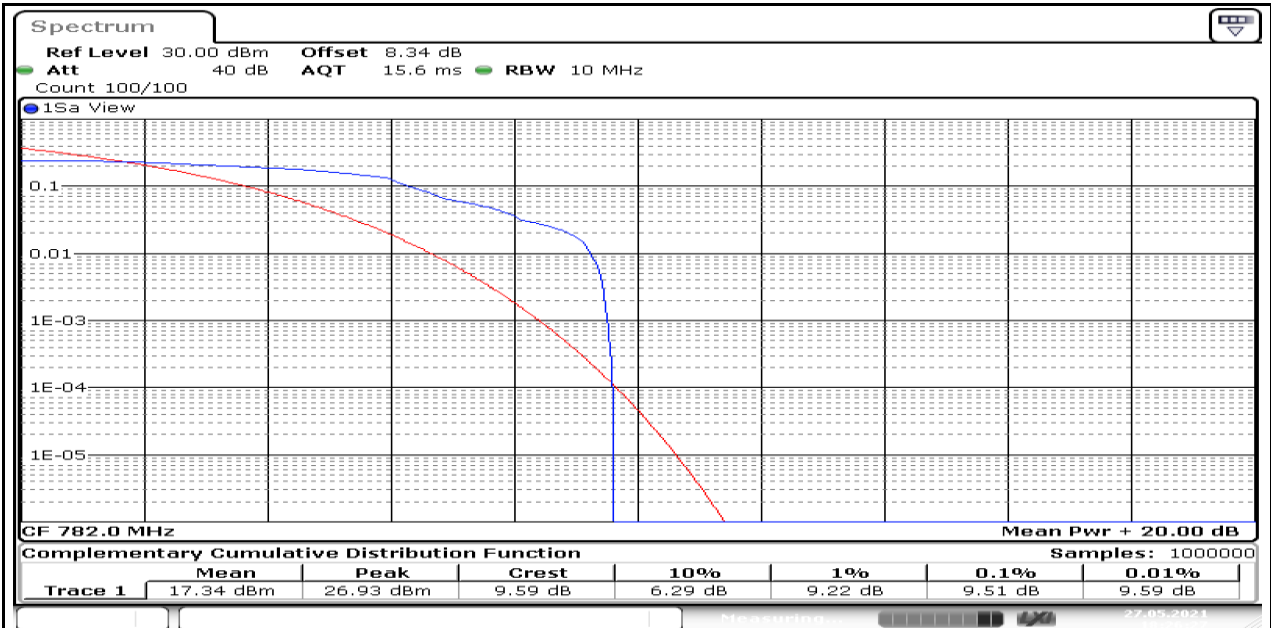
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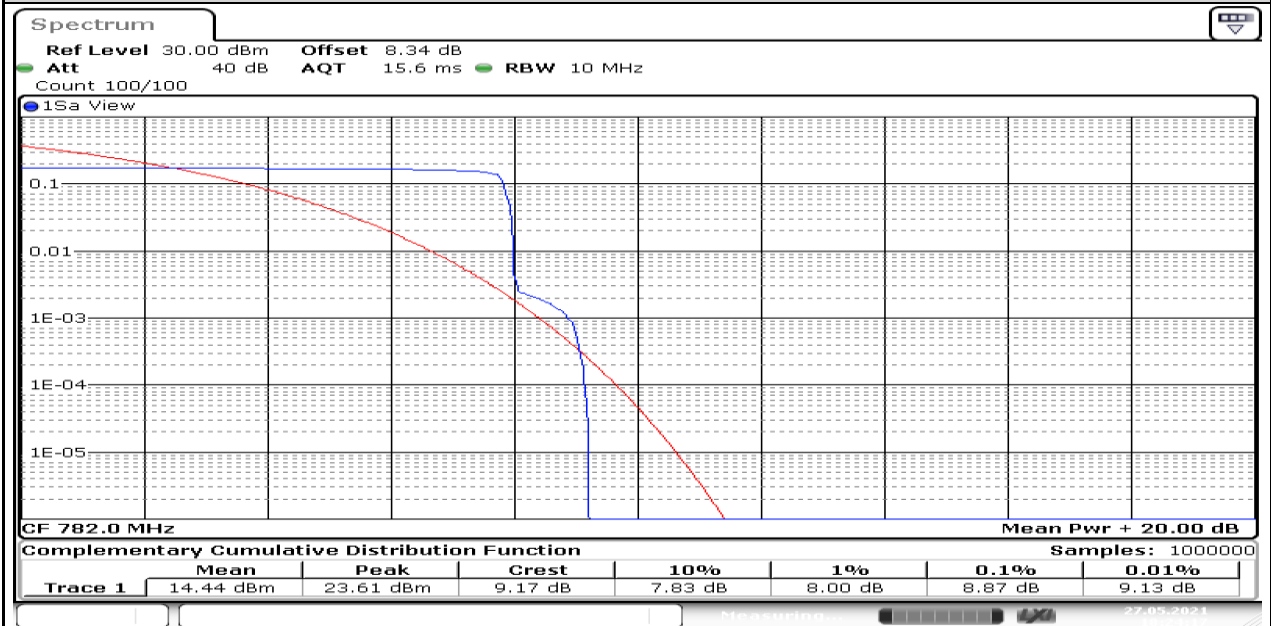


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Band13-Stand-Alone-NaN-BPSK-23230-3@3-15kHz-9.51-<=13-PASS

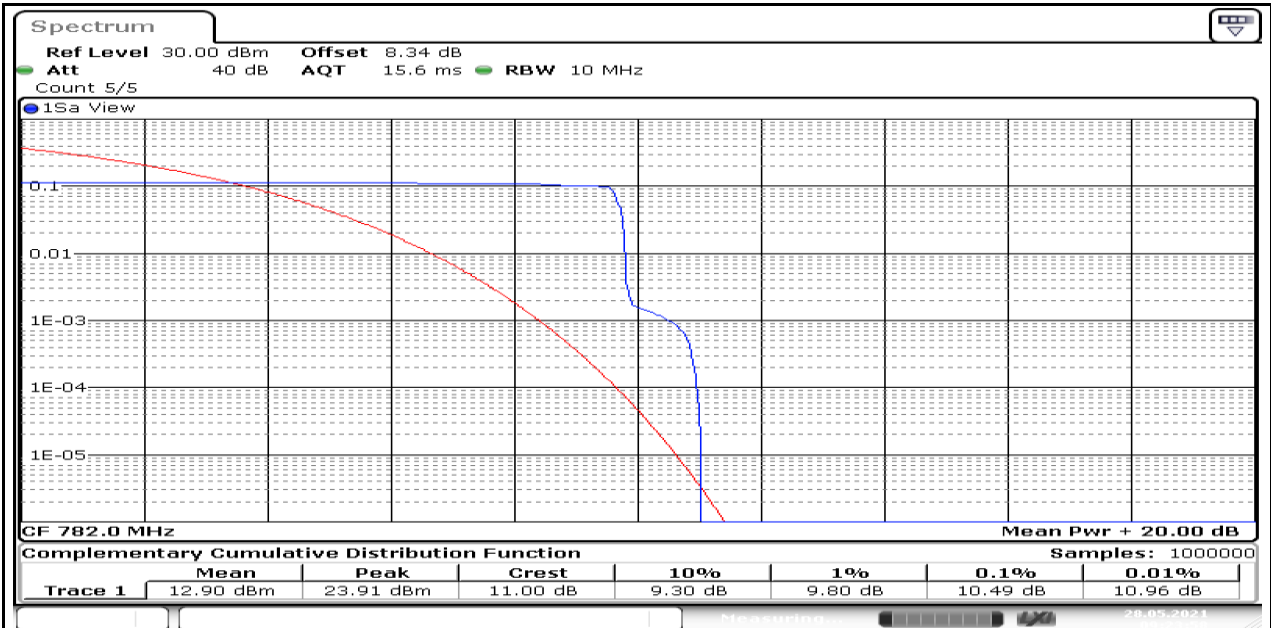


Band13-Stand-Alone-NaN-QPSK-23230-1@0-15kHz-8.87-<=13-PASS

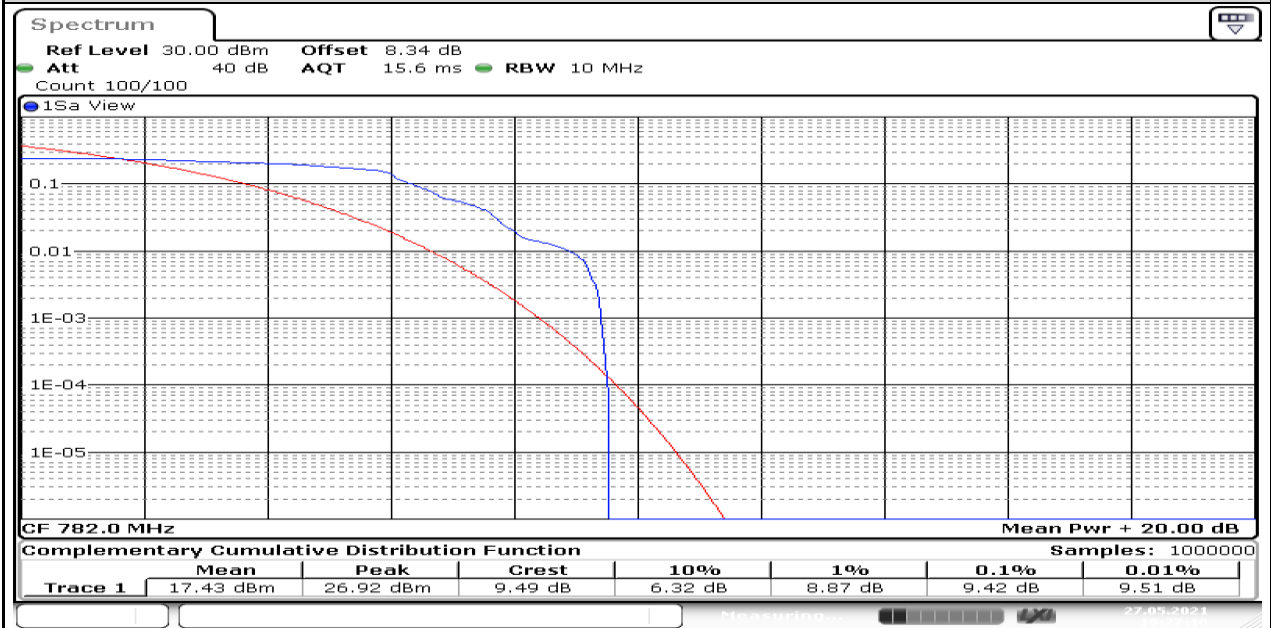


Band13-Stand-Alone-NaN-QPSK-23230-1@11-15kHz-10.49-<=13-PASS





Band13-Stand-Alone-NaN-QPSK-23230-3@3-15kHz-9.42-<=13-PASS

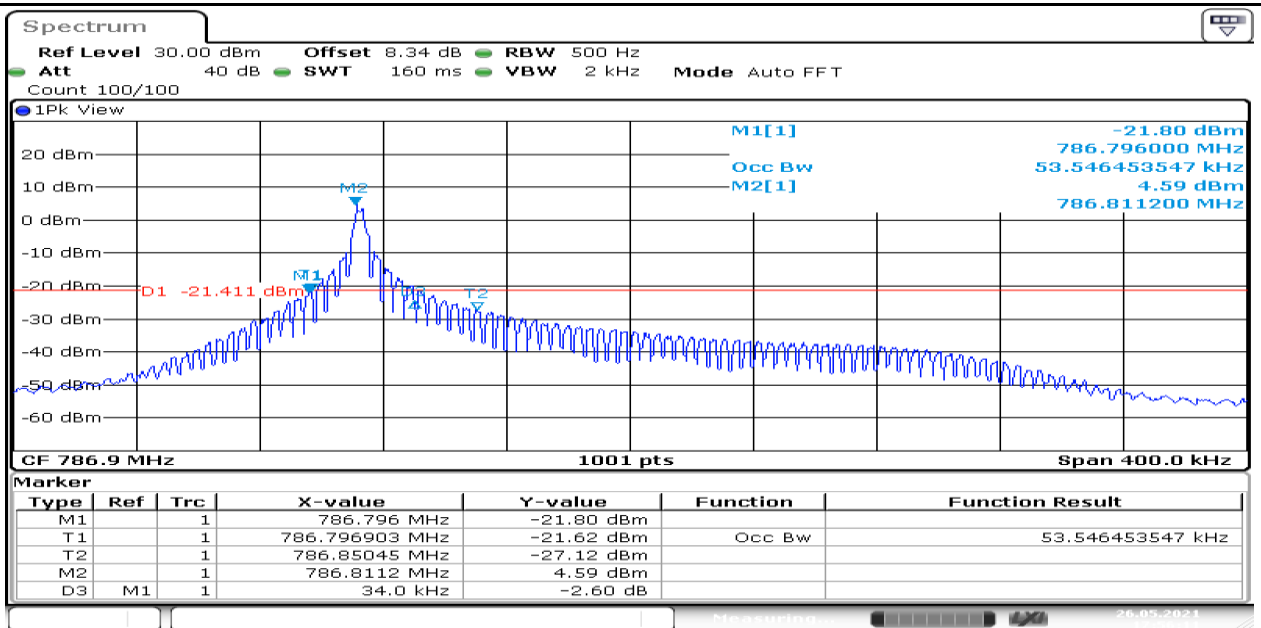


### APPENDIX E.3: EMISSION BANDWIDTH FOR NB-IOT

#### Test Result

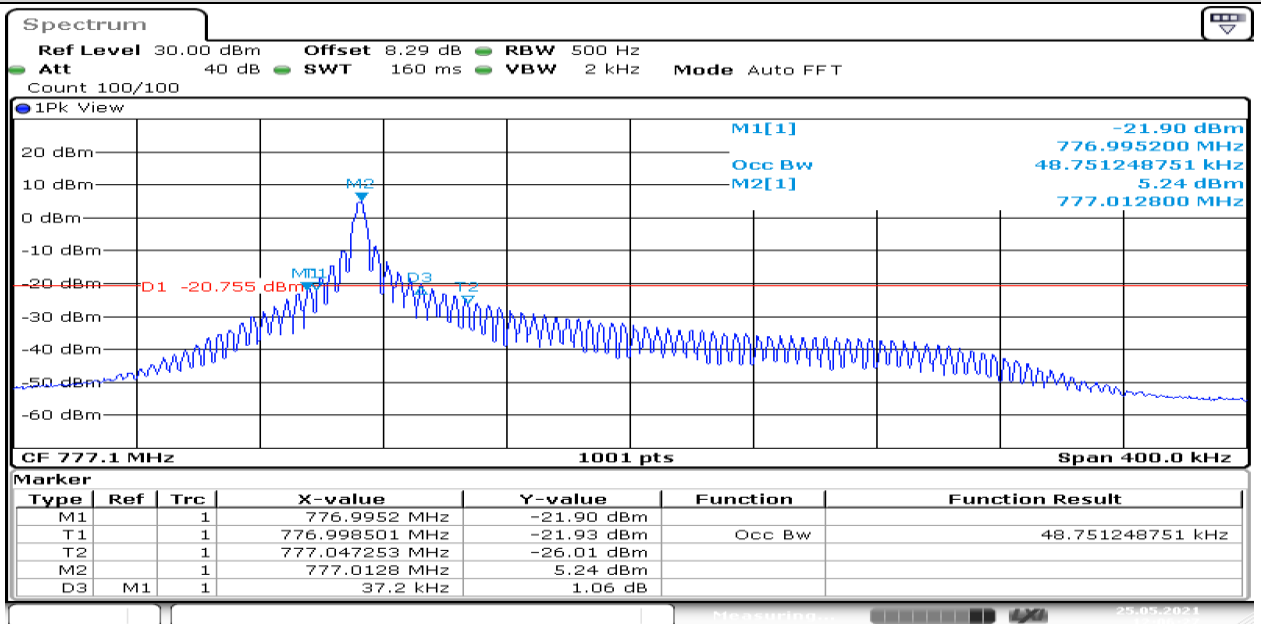
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)		Verdict
							26dB	99%	
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@0	0.034	0.054	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23230	1@0	0.036	0.053	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@0	0.034	0.054	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	0.037	0.049	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	0.038	0.049	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	0.034	0.048	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	0.106	0.128	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	0.106	0.125	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	0.106	0.128	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@0	0.117	0.119	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	0.250	0.184	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	0.117	0.119	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	0.250	0.184	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@0	0.117	0.119	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	0.250	0.184	PASS





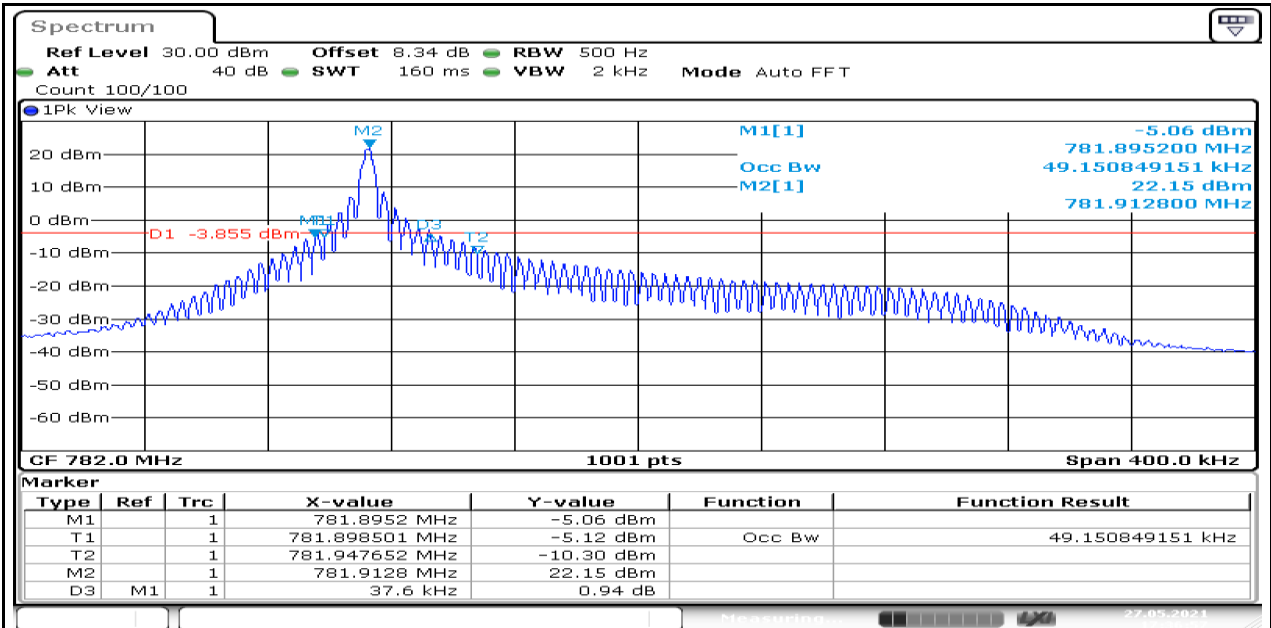
Date: 26.MAY.2021 17:56:11

Band13-Stand-Alone-NaN-QPSK-23181-1@0-3.75kHz-0.037-PASS



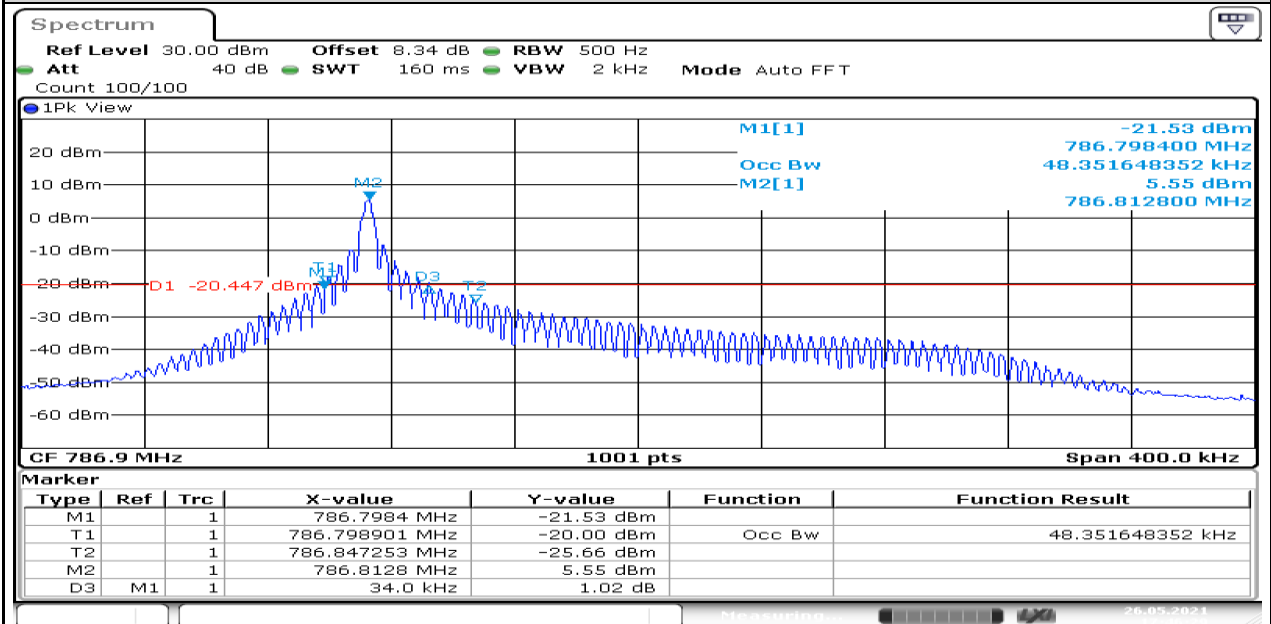
Date: 25.MAY.2021 12:06:27

Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-0.038-PASS



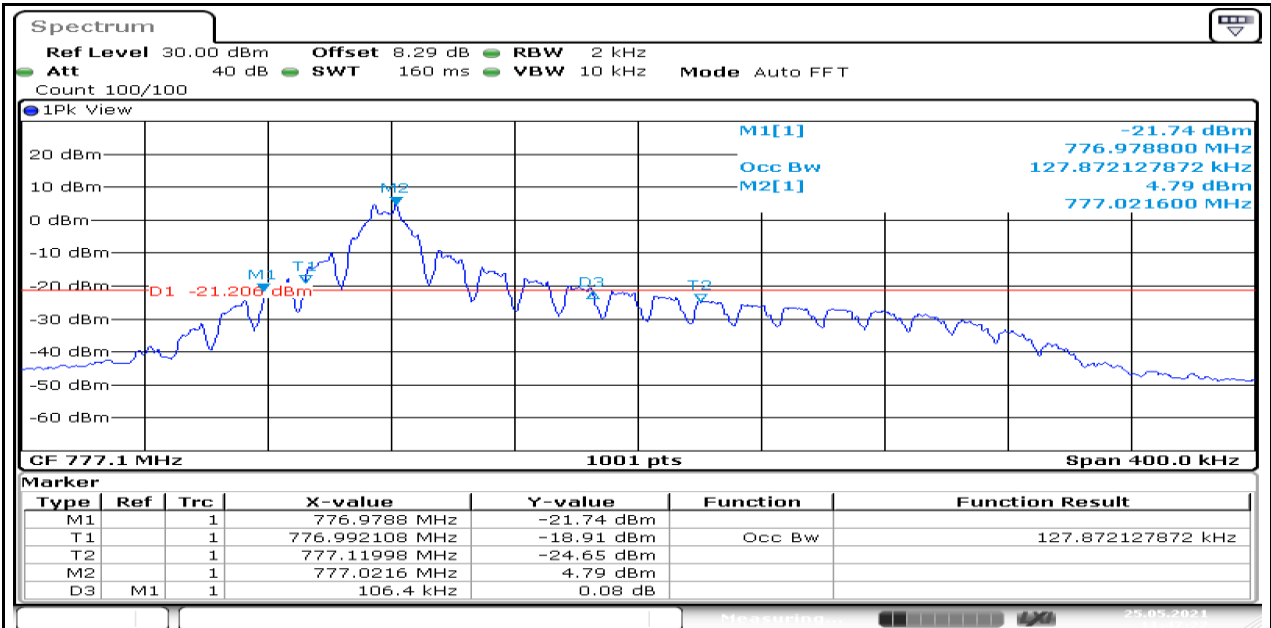
Date: 27.MAY.2021 17:36:57

Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-0.034-PASS



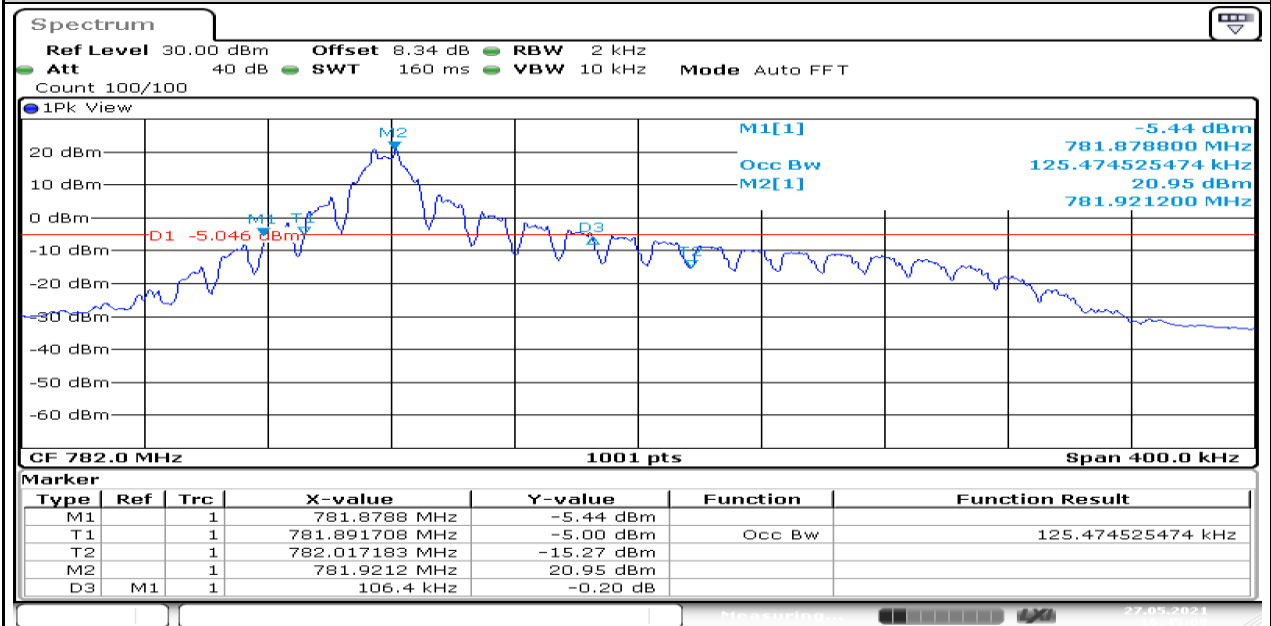
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Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-0.106-PASS



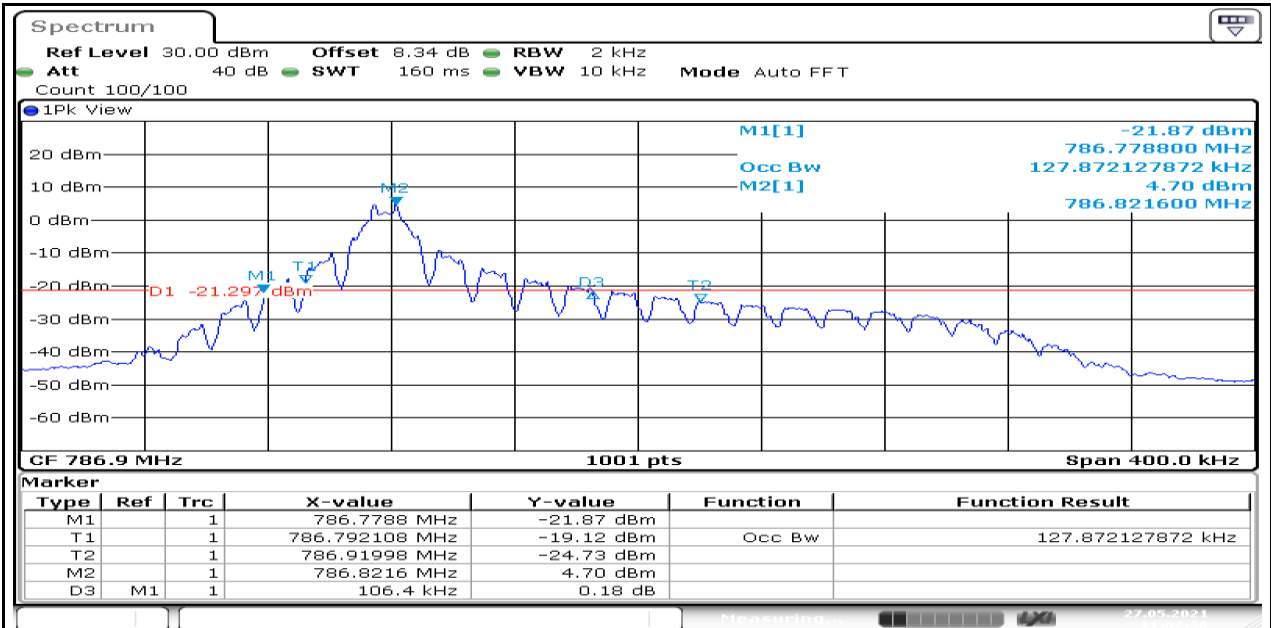
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Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-0.106-PASS



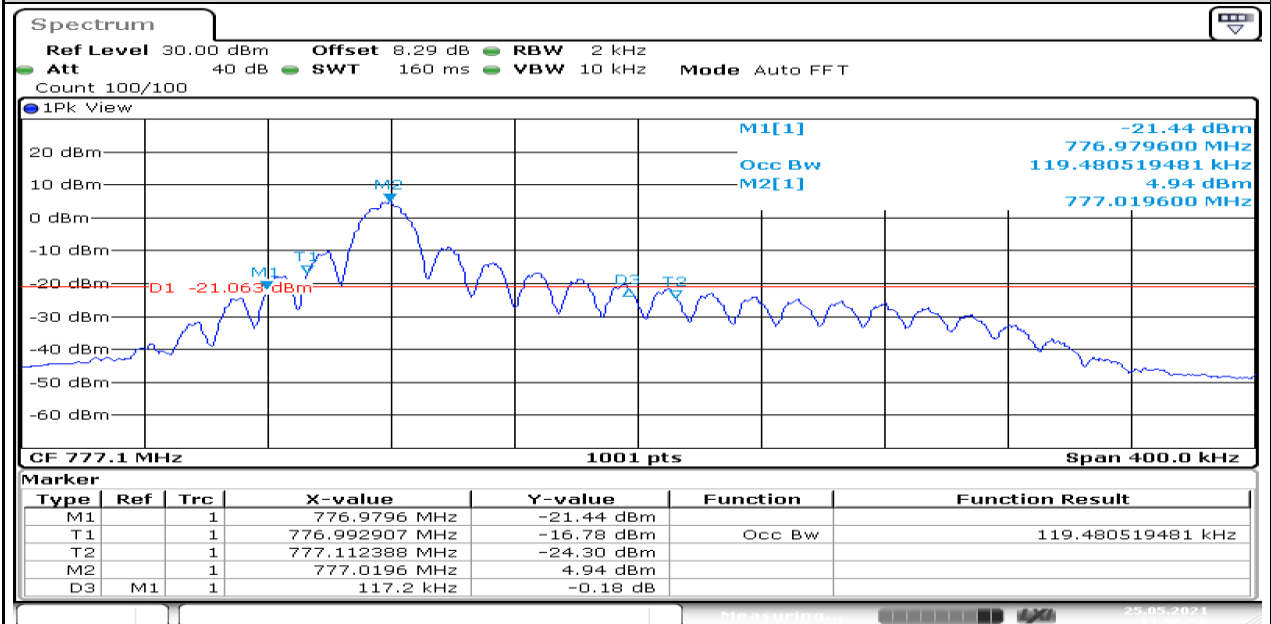
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Band13-Stand-Alone-NaN-BPSK-23279-1@0-15kHz-0.106-PASS



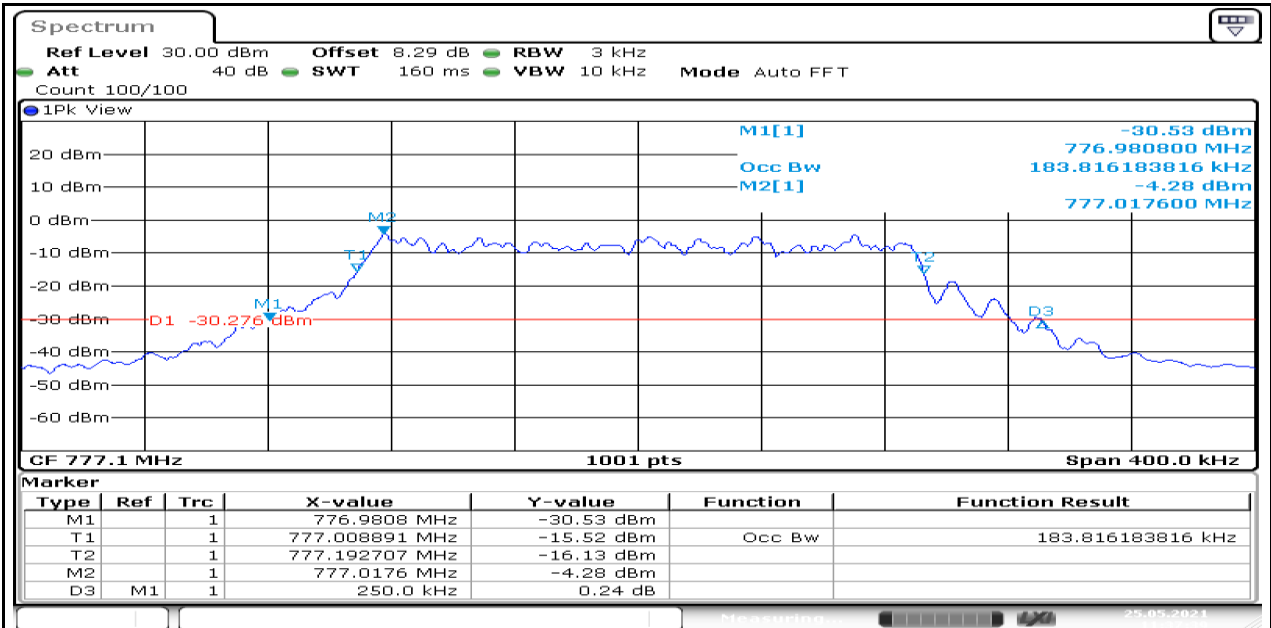
Date: 27.MAY.2021 11:02:36

Band13-Stand-Alone-NaN-QPSK-23181-1@0-15kHz-0.117-PASS

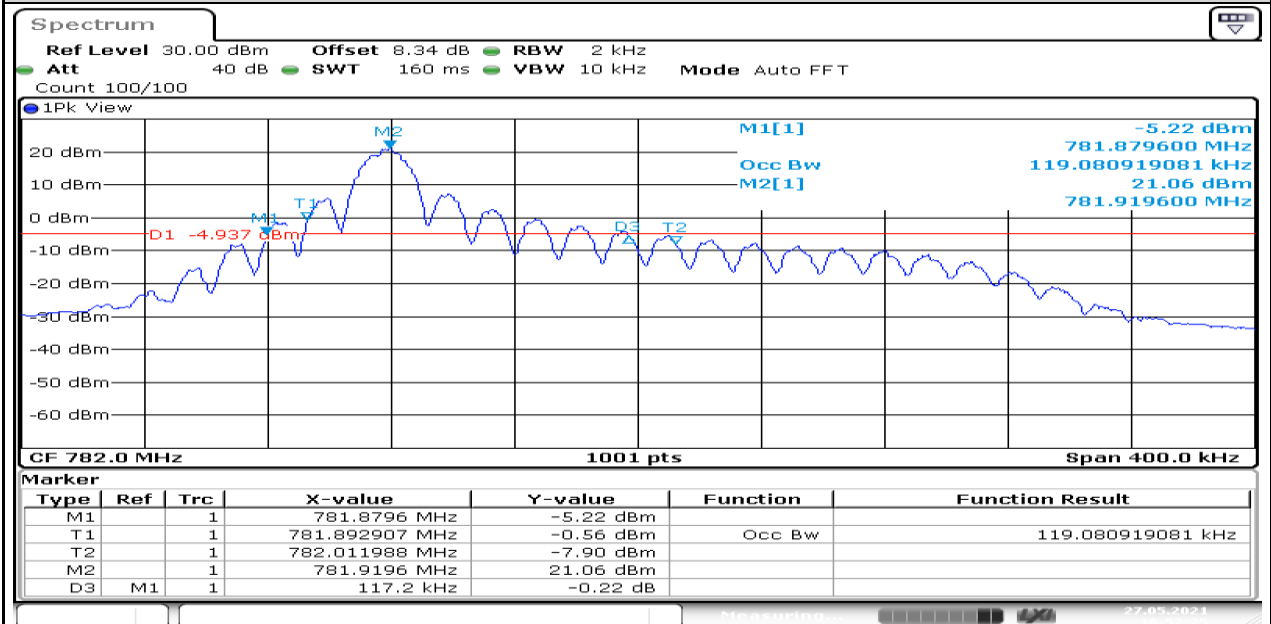


Date: 25.MAY.2021 11:56:56

Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-0.250-PASS

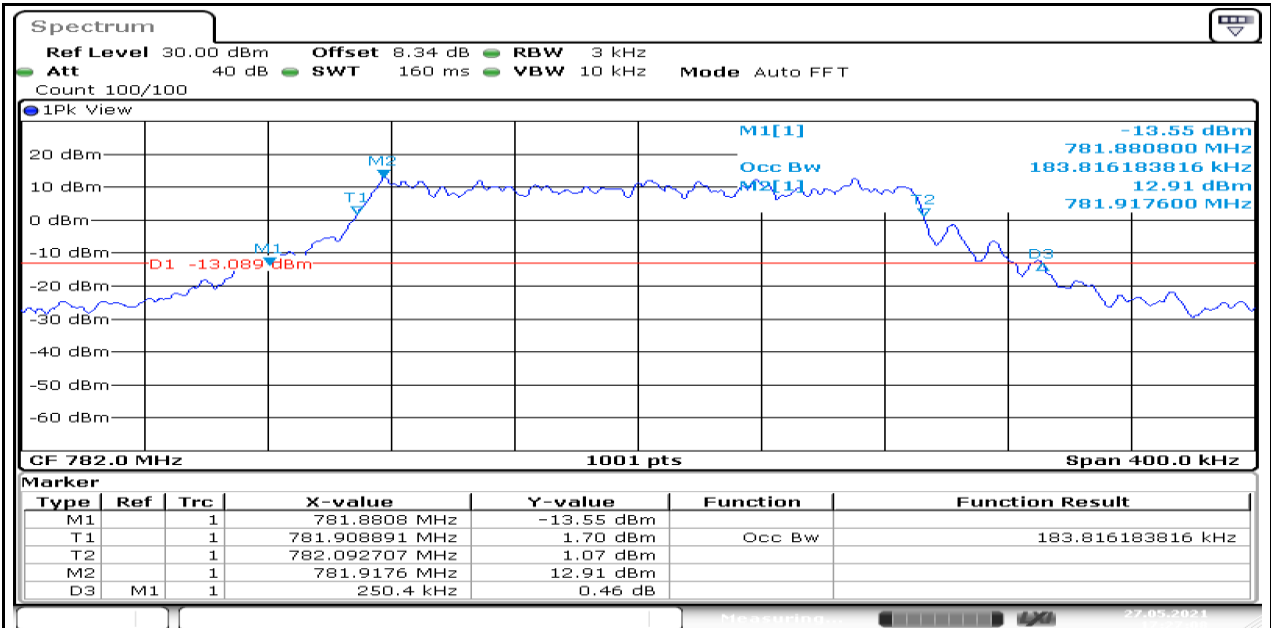


Band13-Stand-Alone-NaN-QPSK-23230-1@0-15kHz-0.117-PASS



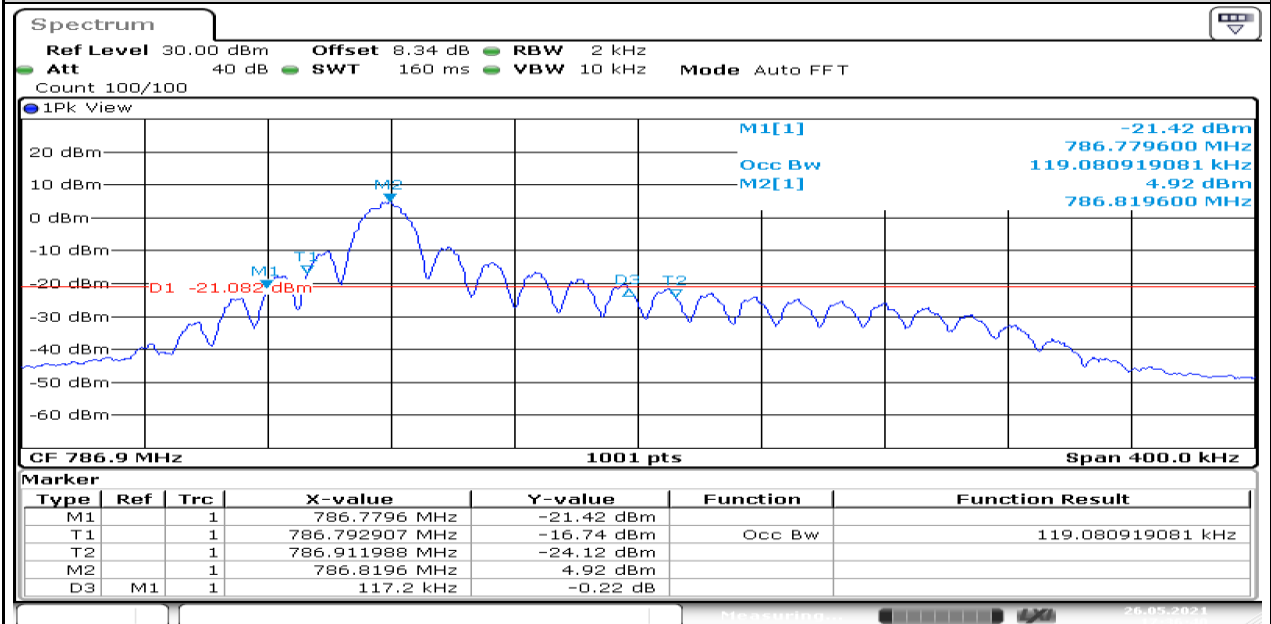
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-0.250-PASS





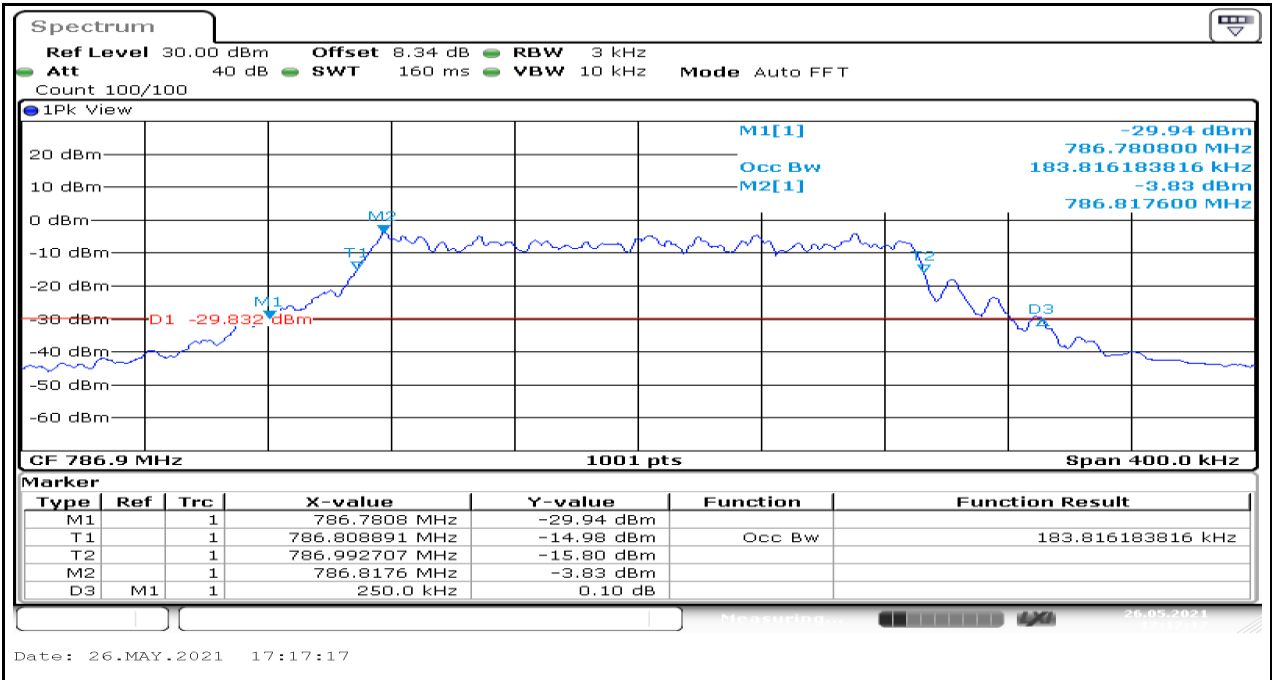
Date: 27.MAY.2021 17:27:08

Band13-Stand-Alone-NaN-QPSK-23279-1@0-15kHz-0.117-PASS



Date: 26.MAY.2021 17:36:41

Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-0.250-PASS

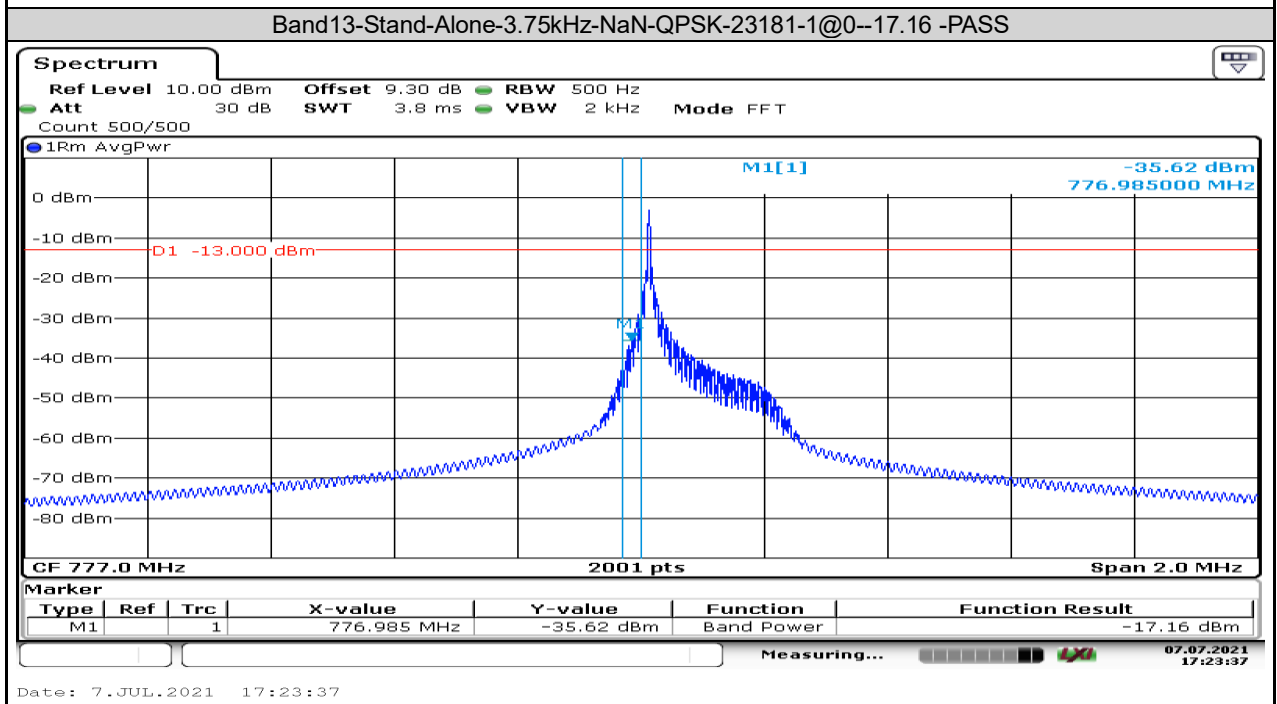
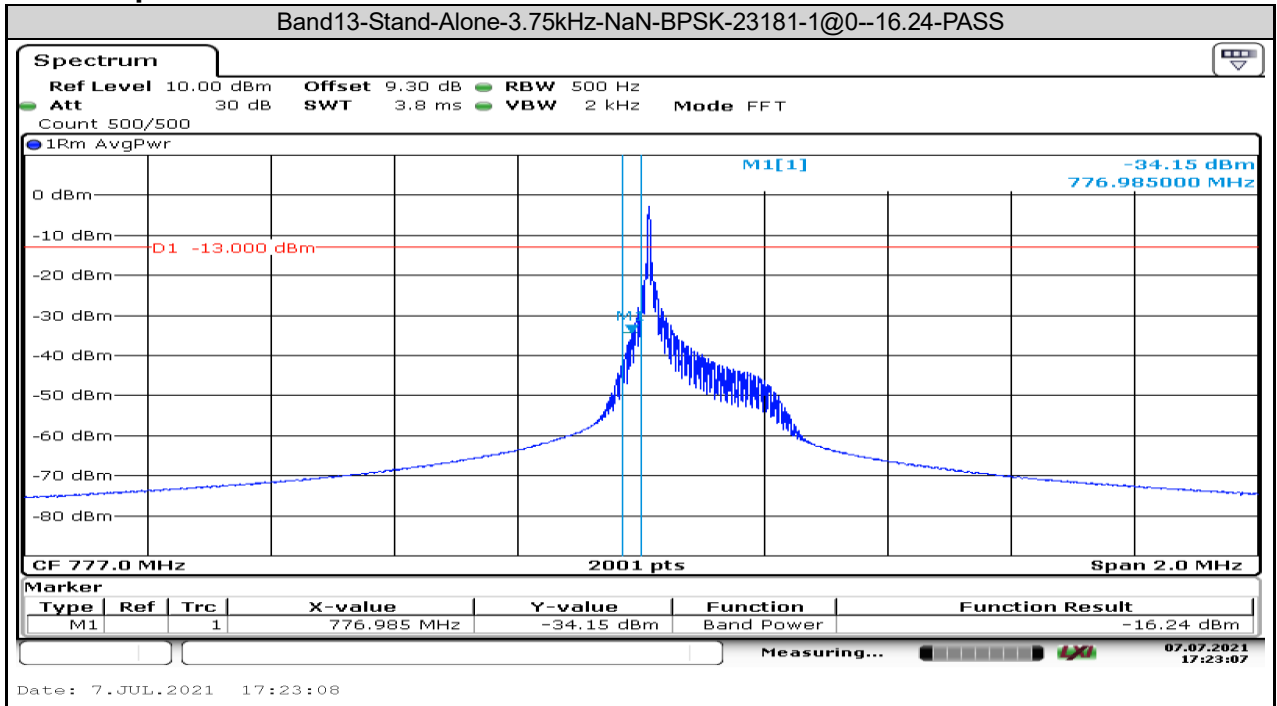


## APPENDIX E.4: BAND EDGE FOR NB-IOT

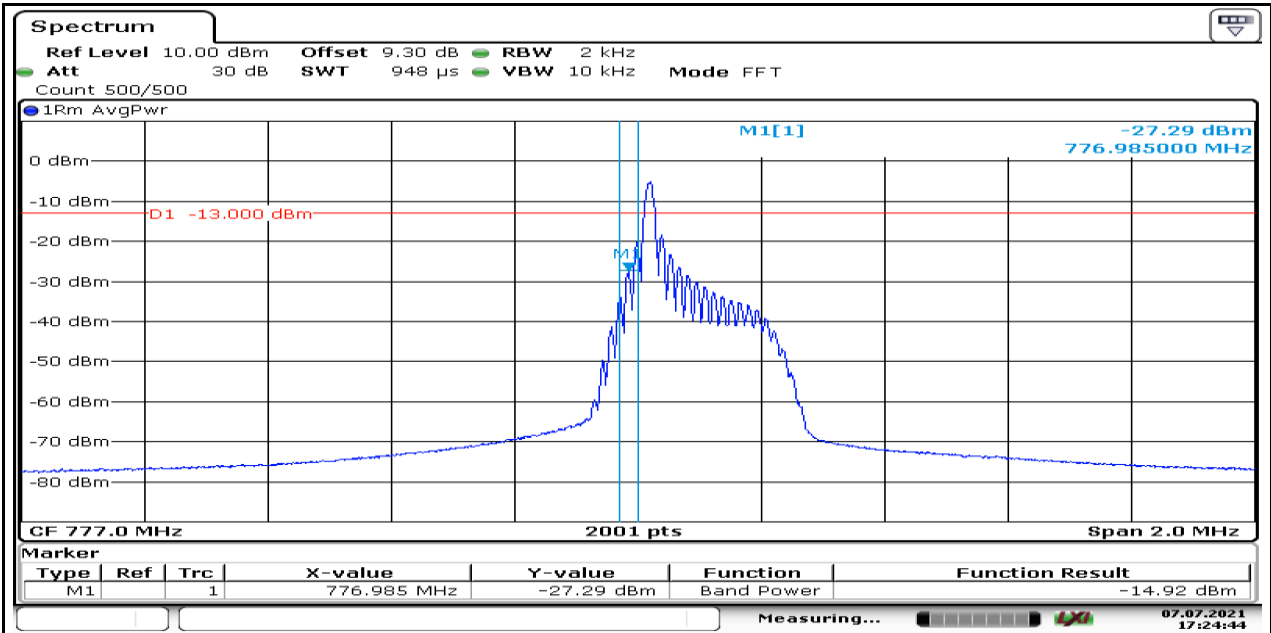
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@0	-16.24	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	-17.16	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	-14.92	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@0	-16.61	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	-26.59	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	1@11	-28.45	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23181	1@47	-29.00	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	-30.40	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	-21.49	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@0	-30.50	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	-31.75	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	-26.75	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@0	-29.32	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	-14.79	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	1@11	-16.43	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23279	1@47	-15.56	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	-16.42	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	-20.45	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23182	1@0	-23.99	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23182	1@0	-23.99	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23182	1@0	-38.99	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	1@0	-38.75	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23182	1@11	-34.59	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	1@11	-34.87	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23182	1@47	-27.67	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23182	1@47	-27.20	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23182	12@0	-33.15	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23278	1@0	-27.86	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23278	1@0	-29.74	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23278	1@0	-43.14	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	1@0	-46.61	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23278	1@11	-40.64	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	1@11	-40.79	PASS
Band13	Stand-Alone	3.75kHz	NaN	BPSK	23278	1@47	-26.08	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23278	1@47	-22.81	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23278	12@0	-35.13	PASS

### Test Graphs

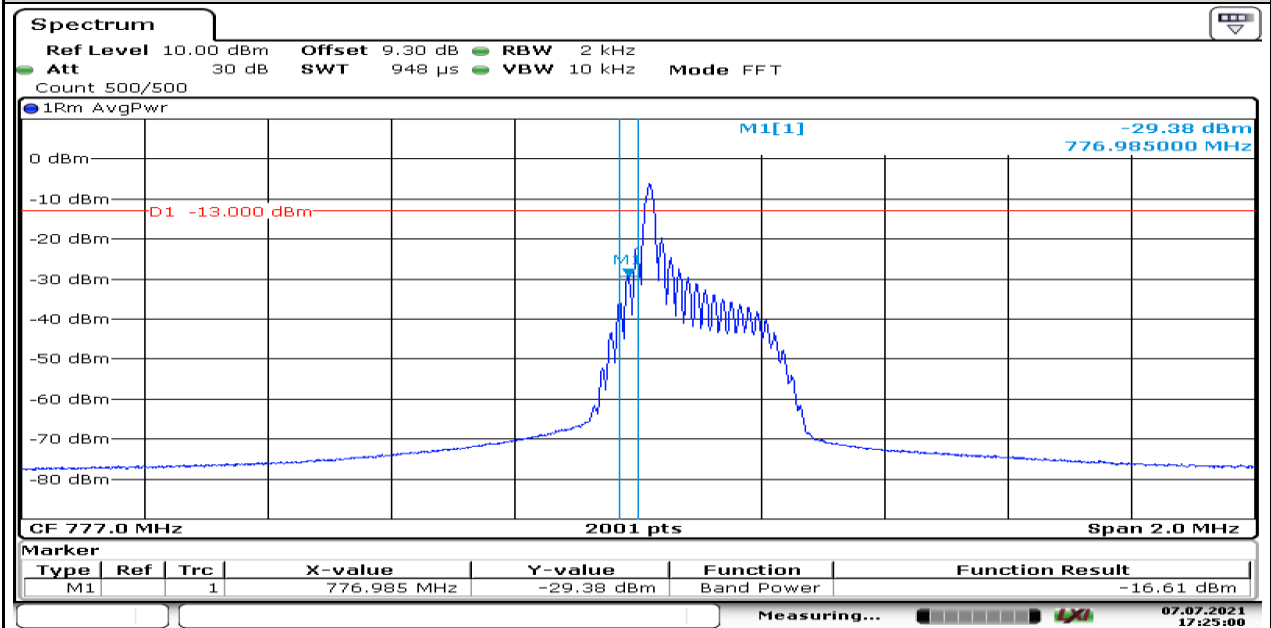


Band13-Stand-Alone-15kHz-NaN-BPSK-23181-1@0--14.92 -PASS



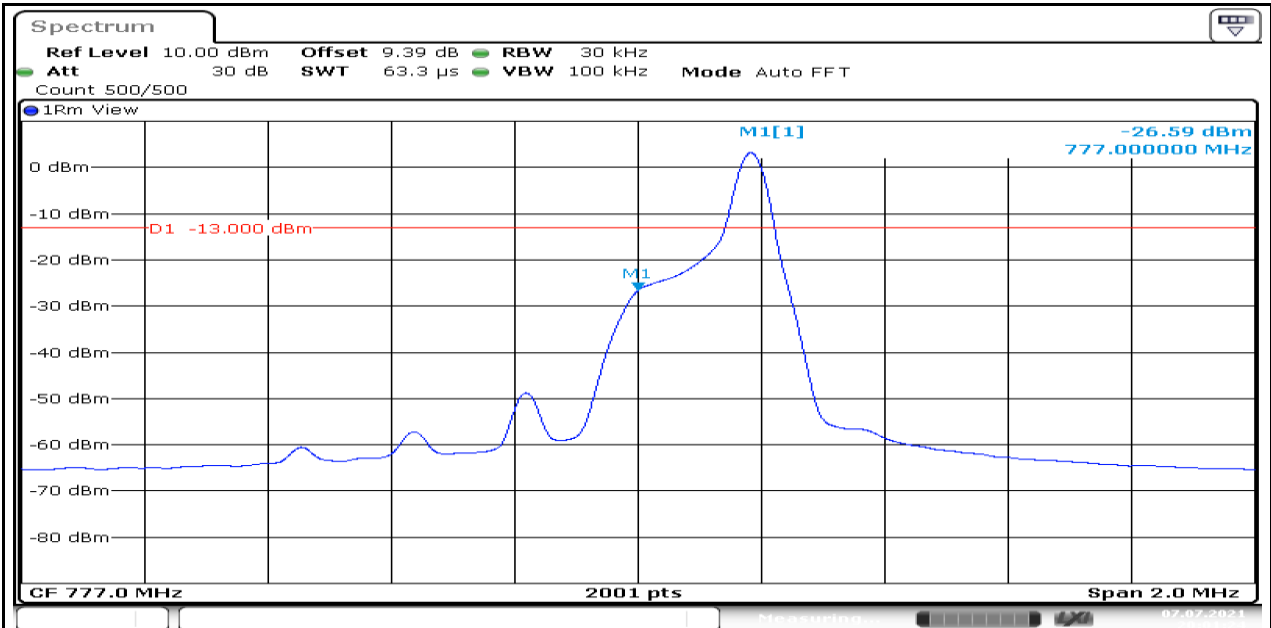
Date: 7.JUL.2021 17:24:45

Band13-Stand-Alone-15kHz-NaN-QPSK-23181-1@0--16.61-PASS

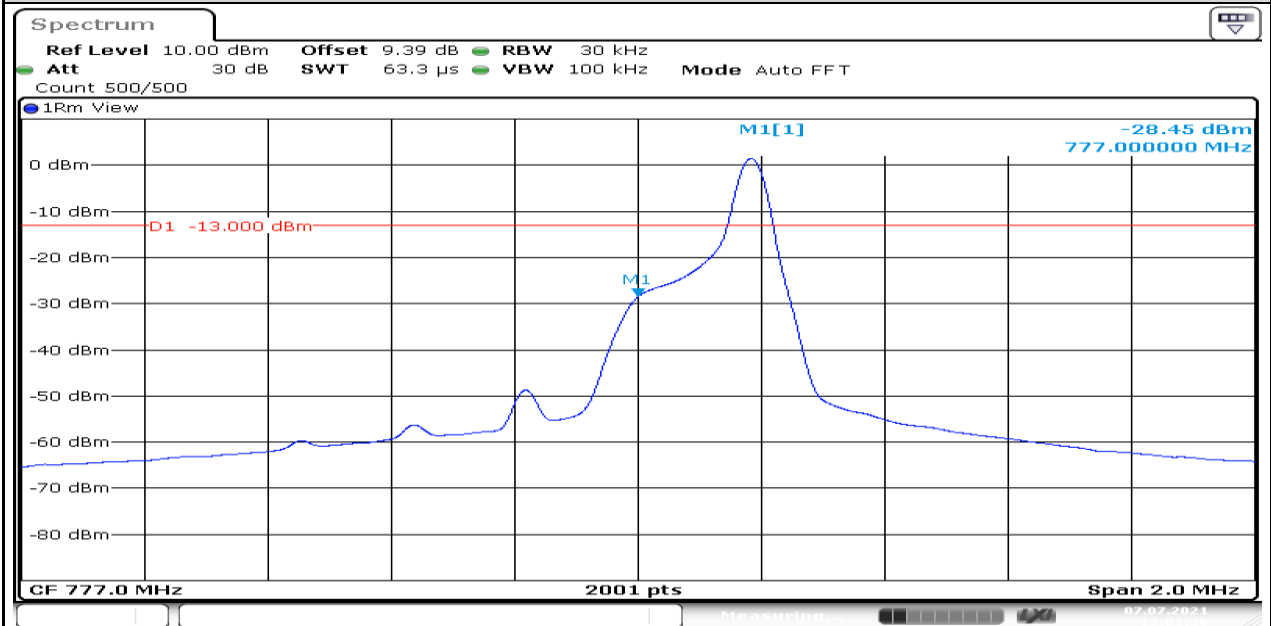


Date: 7.JUL.2021 17:25:00

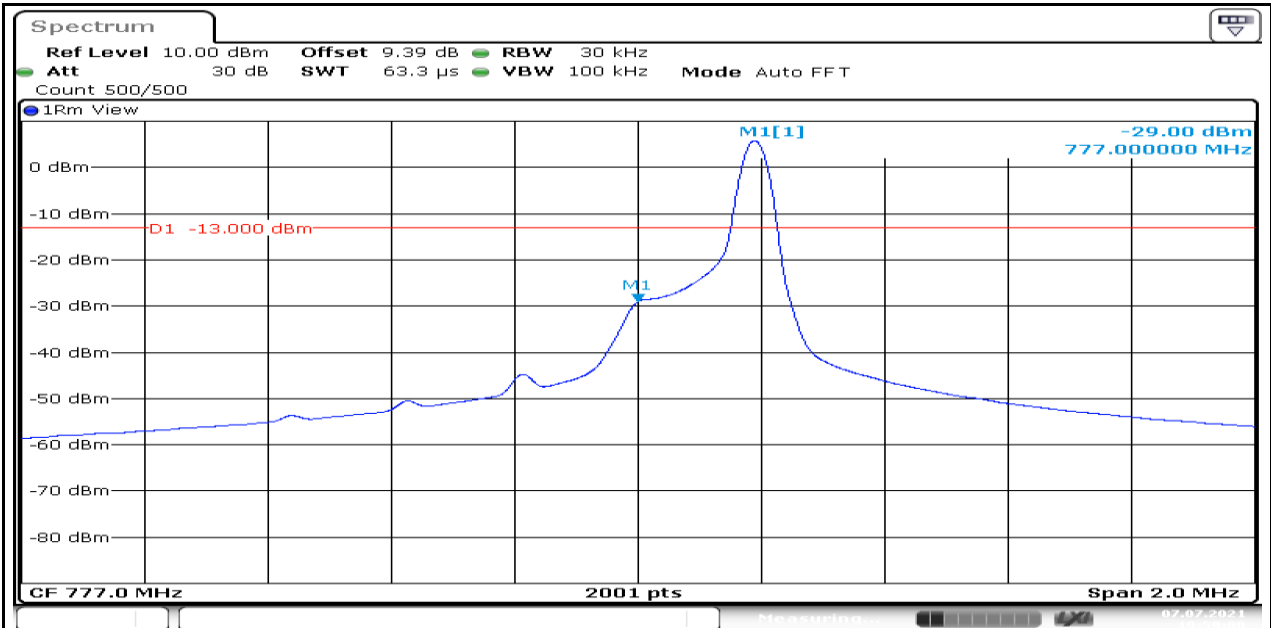
Band13-Stand-Alone-15kHz-NaN-BPSK-23181-1@11--26.59 -PASS



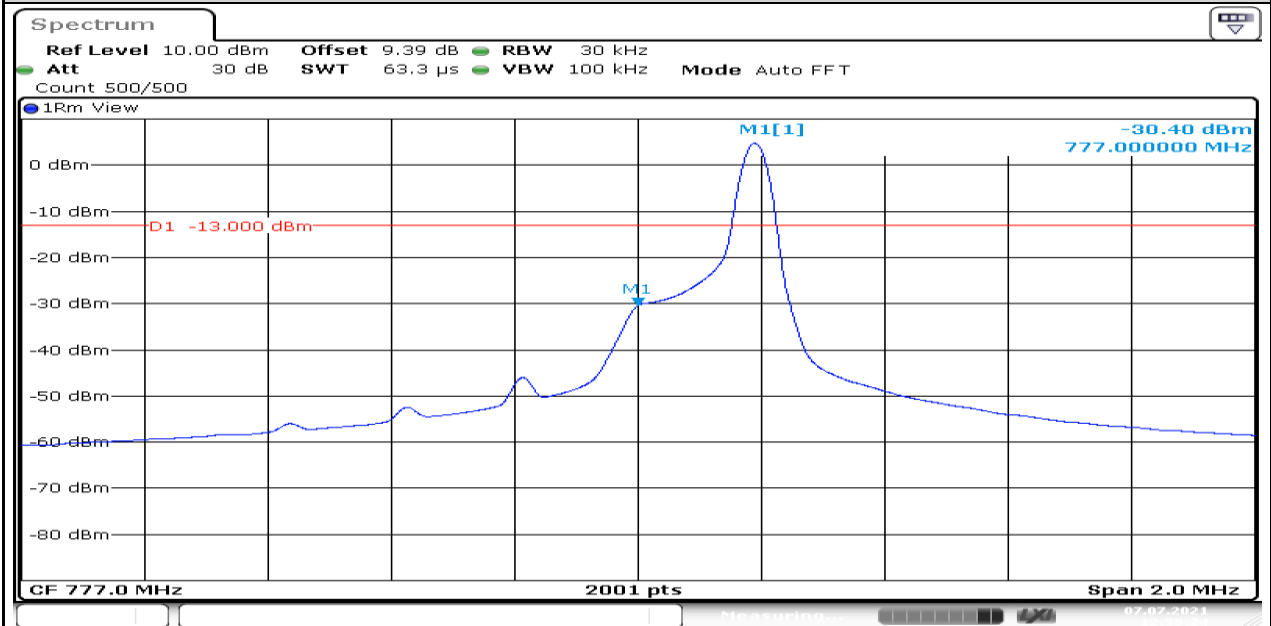
Band13-Stand-Alone-15kHz-NaN-QPSK-23181-1@11- -28.45-PASS



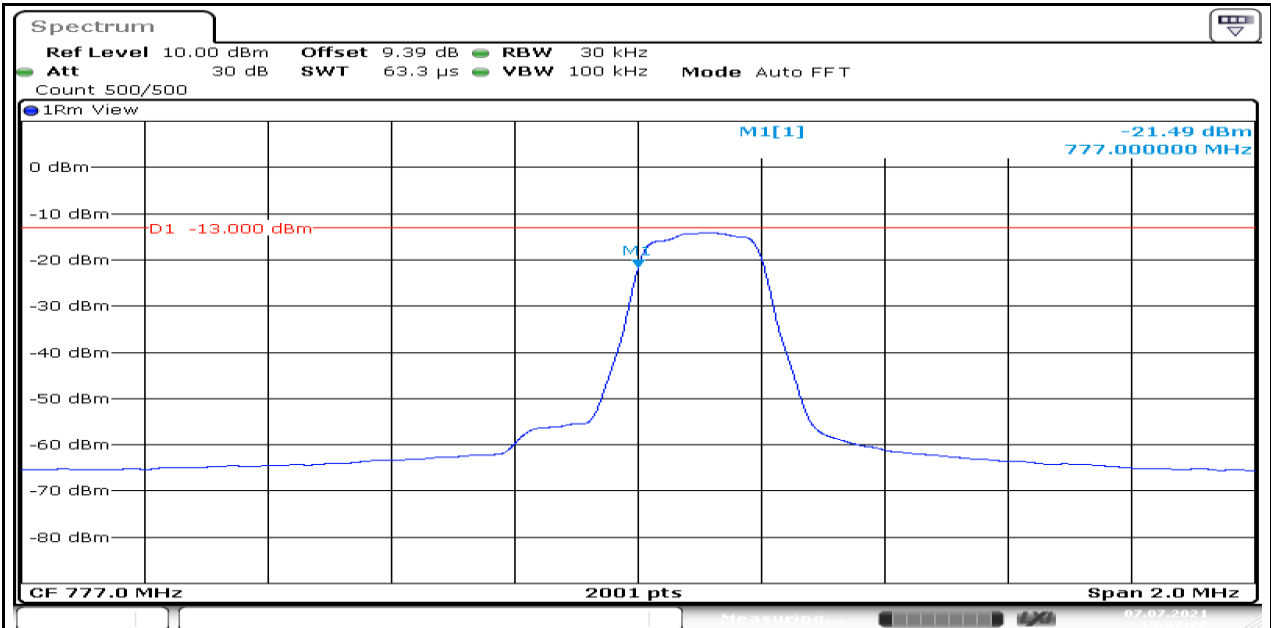
Band13-Stand-Alone-3.75kHz-NaN-BPSK-23181-1@47- -29.00-PASS



Band13-Stand-Alone-3.75kHz-NaN-QPSK-23181-1@47- -30.40-PASS

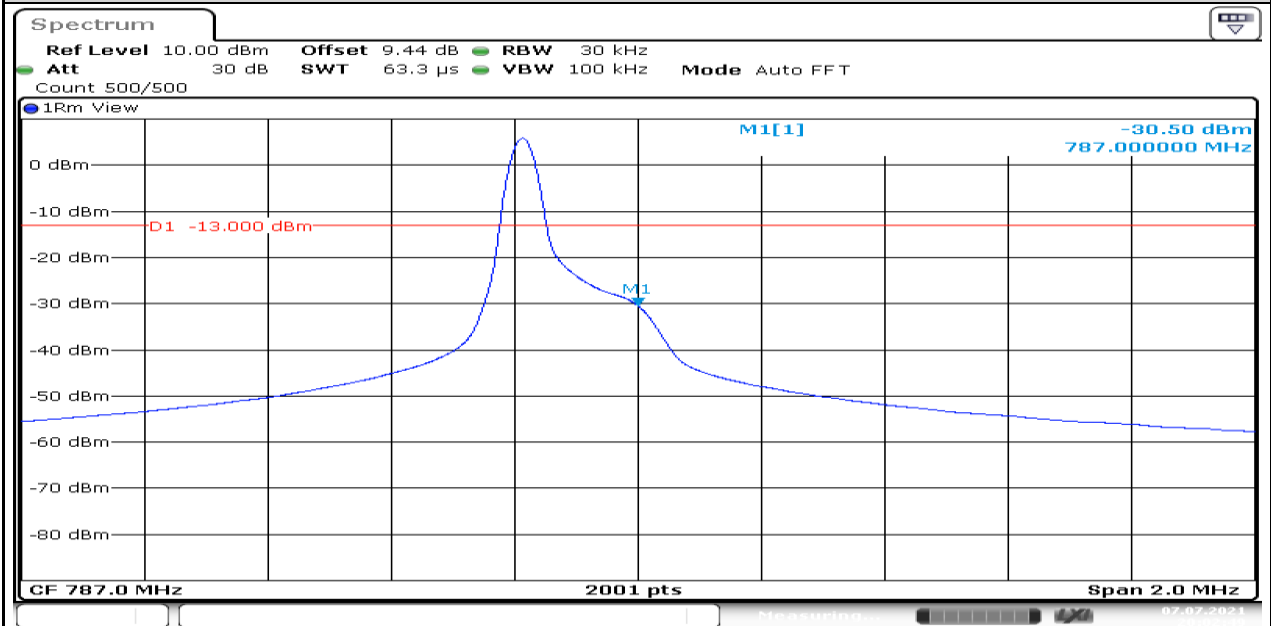


Band13-Stand-Alone-15kHz-NaN-QPSK-23181-12@0- -21.49-PASS



Date: 7.JUL.2021 13:07:23

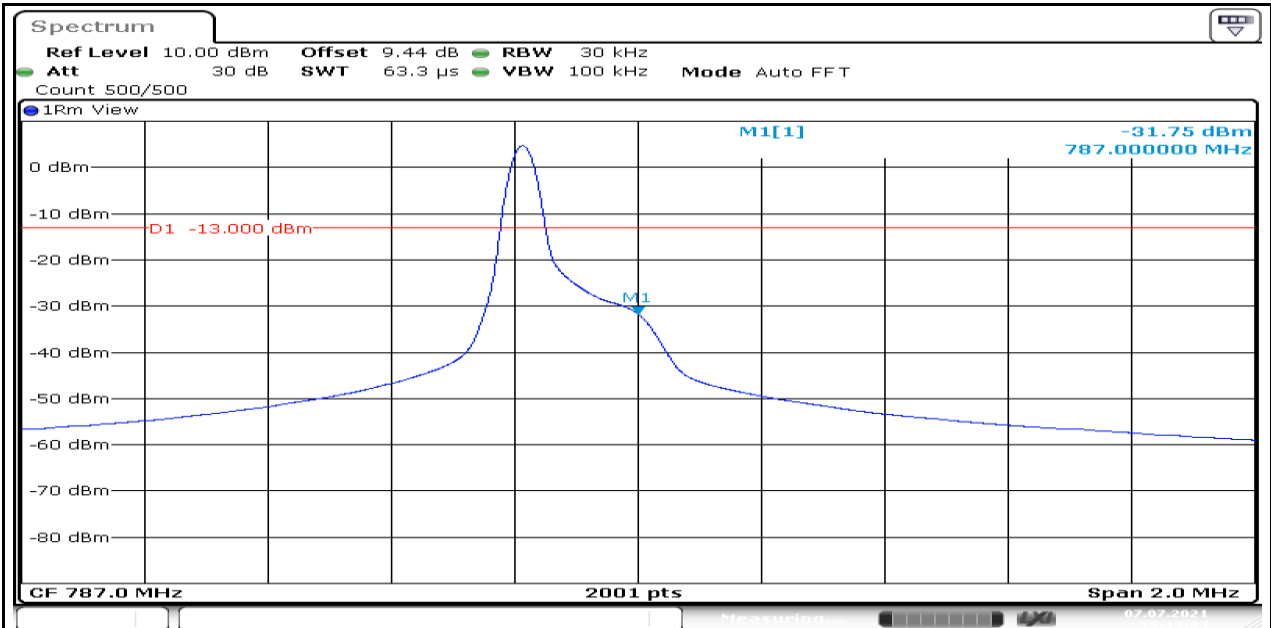
Band13-Stand-Alone-3.75kHz-NaN-BPSK-23279-1@0- -30.50-PASS



Date: 7.JUL.2021 20:02:49

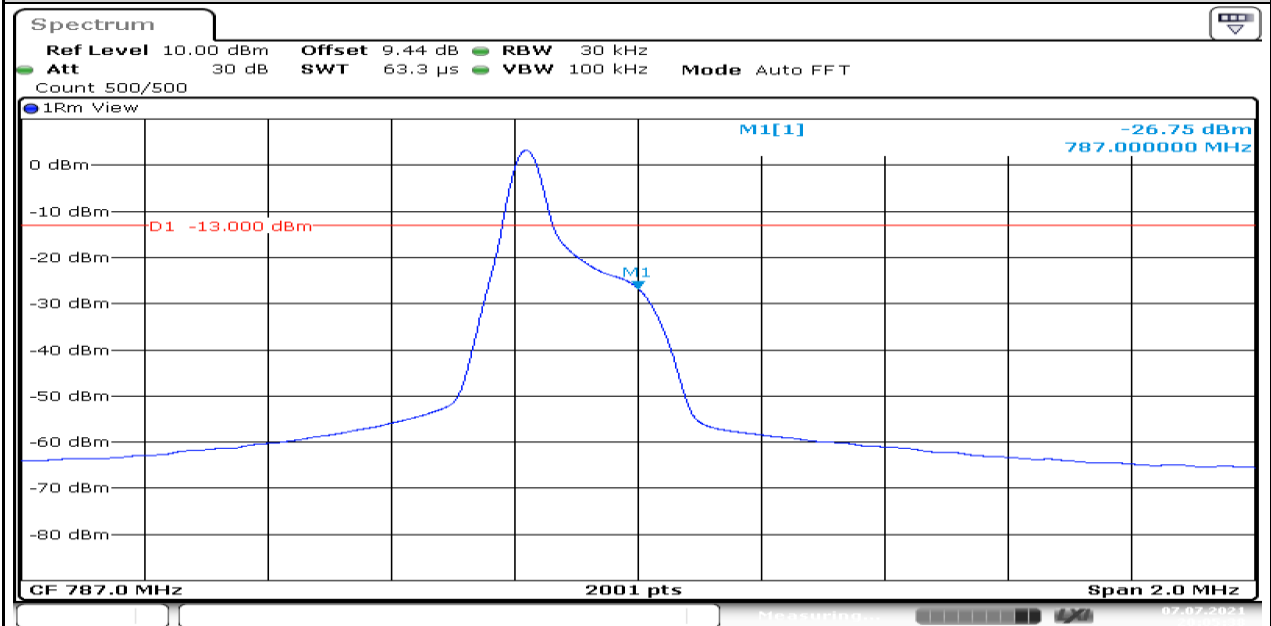
Band13-Stand-Alone-3.75kHz-NaN-QPSK-23279-1@0- -31.75-PASS





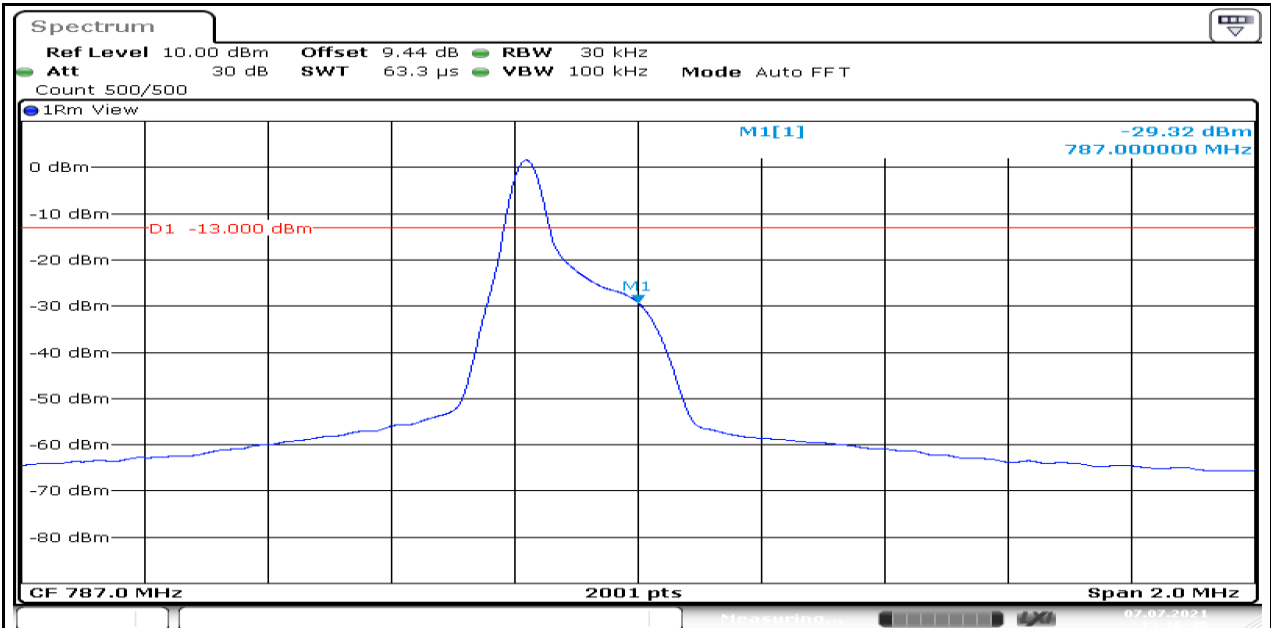
Date: 7.JUL.2021 13:13:04

Band13-Stand-Alone-15kHz-NaN-BPSK-23279-1@0- -26.75-PASS

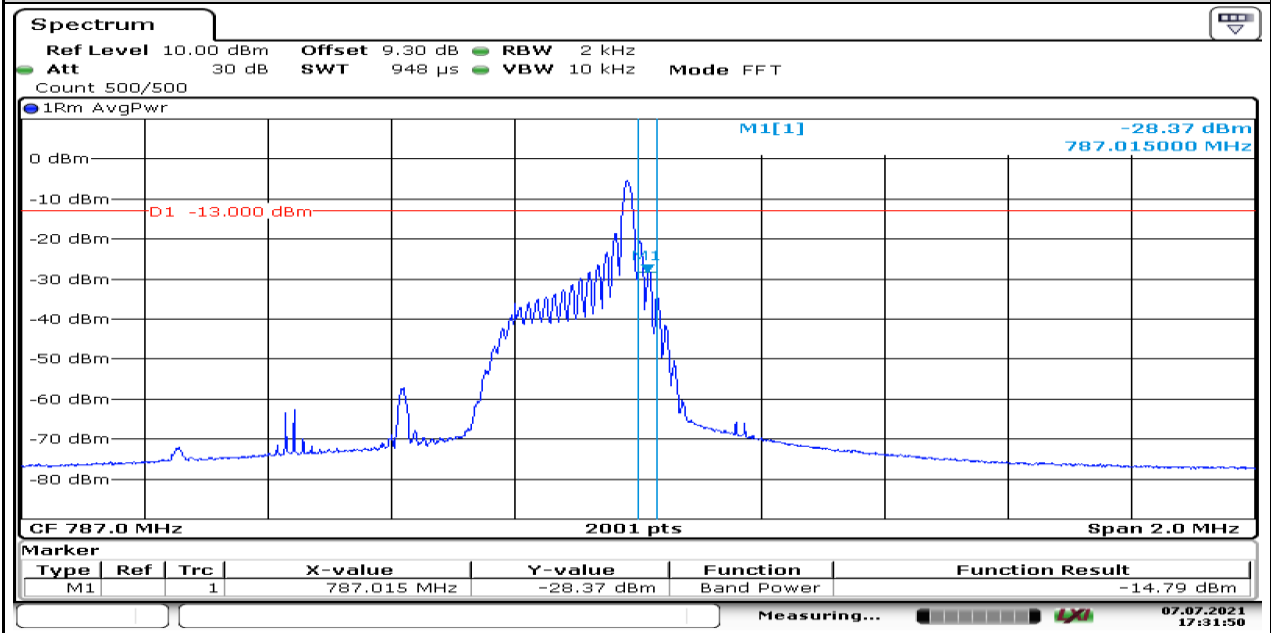


Date: 7.JUL.2021 20:05:37

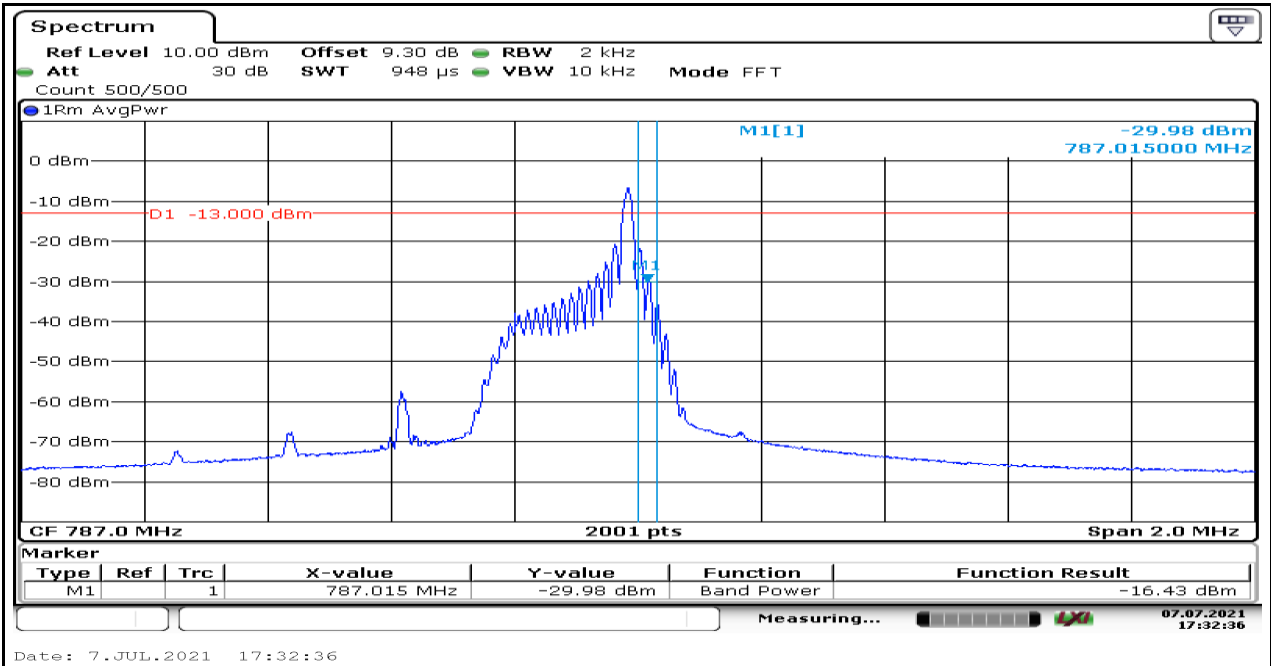
Band13-Stand-Alone-15kHz-NaN-QPSK-23279-1@0- -29.32-PASS



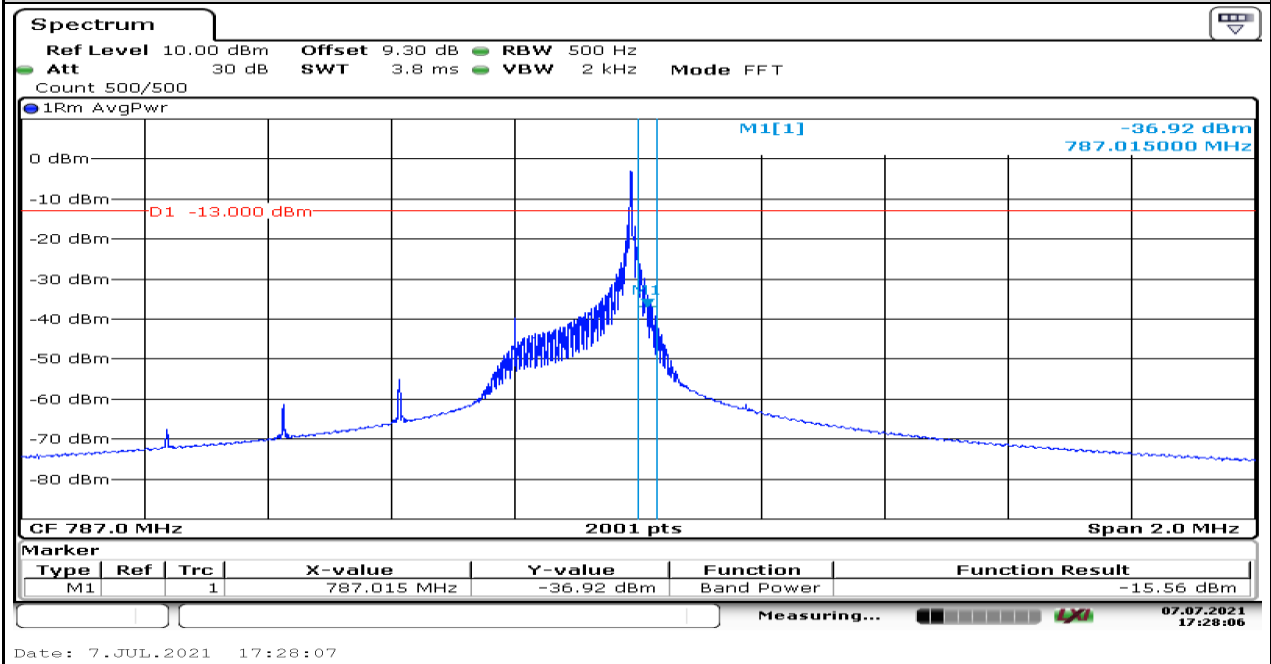
Band13-Stand-Alone-15kHz-NaN-BPSK-23279-1@11- -14.79-PASS



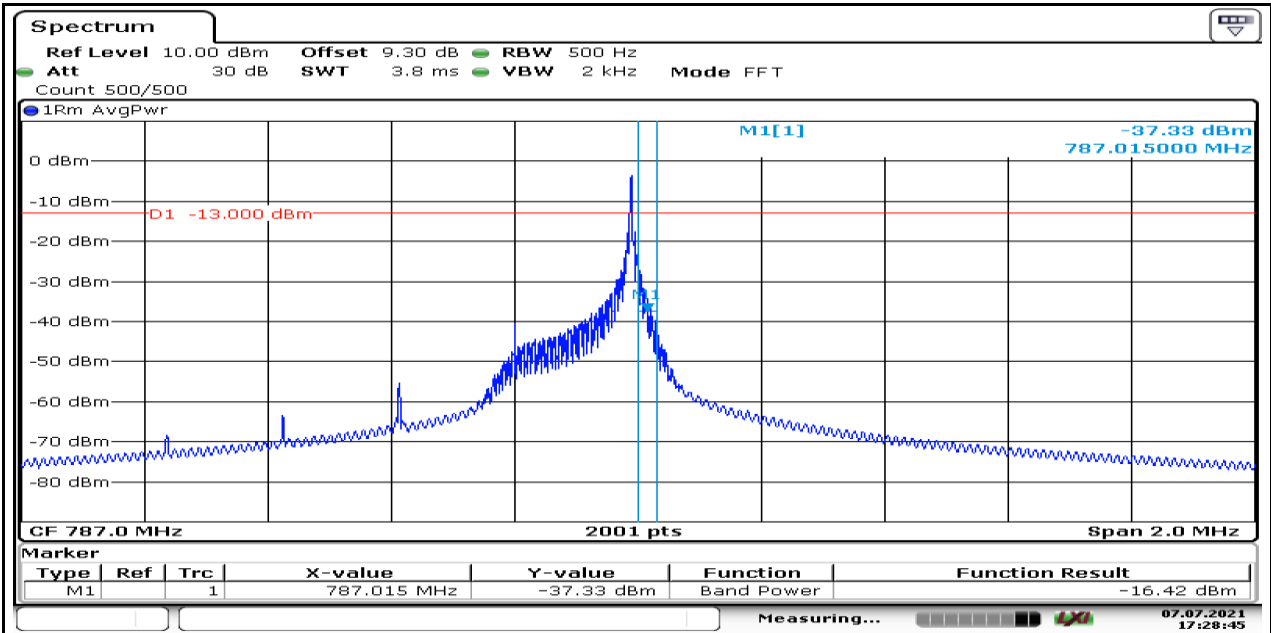
Band13-Stand-Alone-15kHz-NaN-QPSK-23279-1@11- -16.43-PASS



Band13-Stand-Alone-3.75kHz-NaN-BPSK-23279-1@47- -15.56-PASS

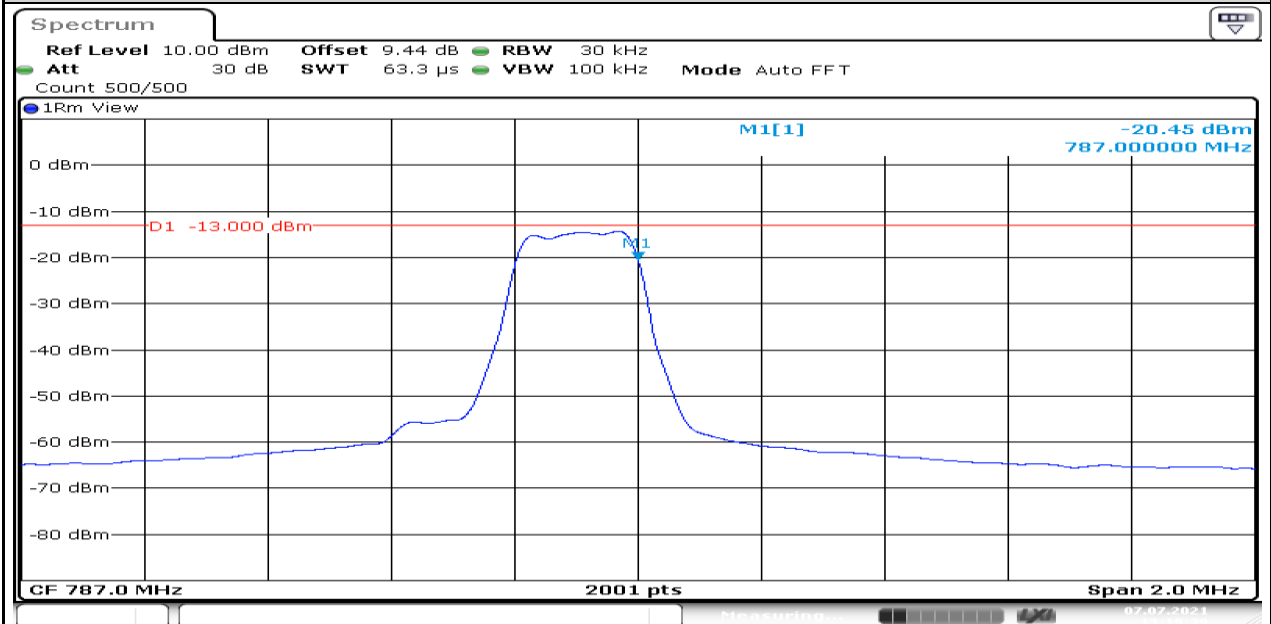


Band13-Stand-Alone-3.75kHz-NaN-QPSK-23279-1@47- -16.42-PASS



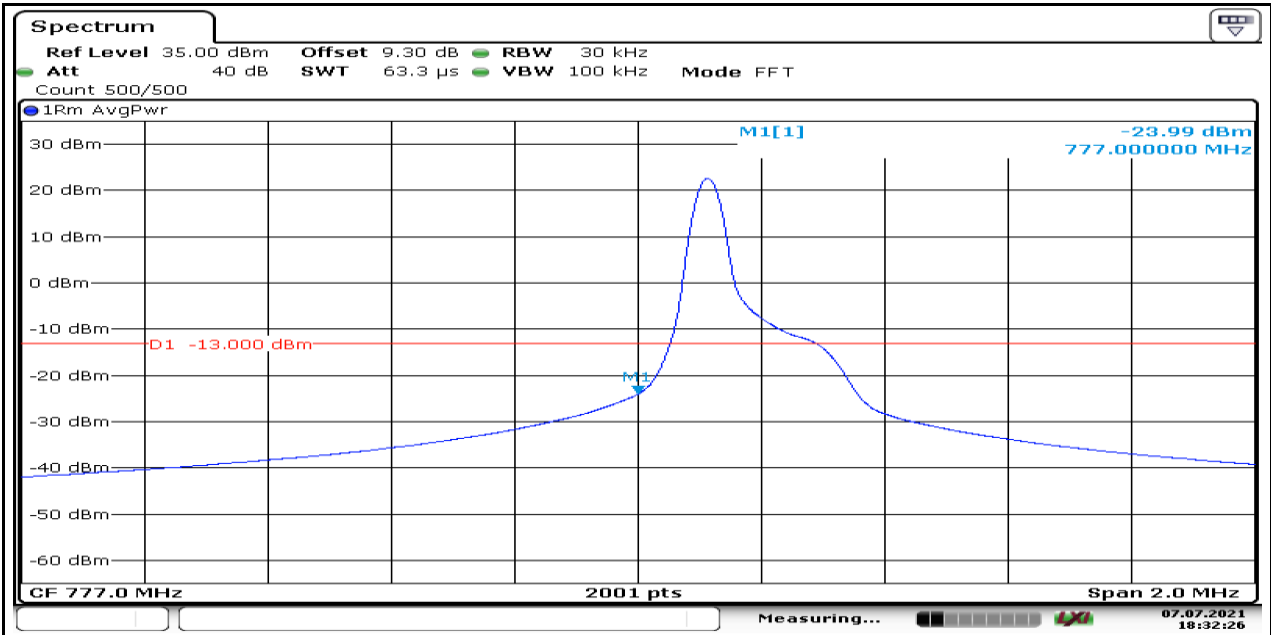
Date: 7.JUL.2021 17:28:45

Band13-Stand-Alone-15kHz-NaN-QPSK-23279-12@0- -20.45-PASS



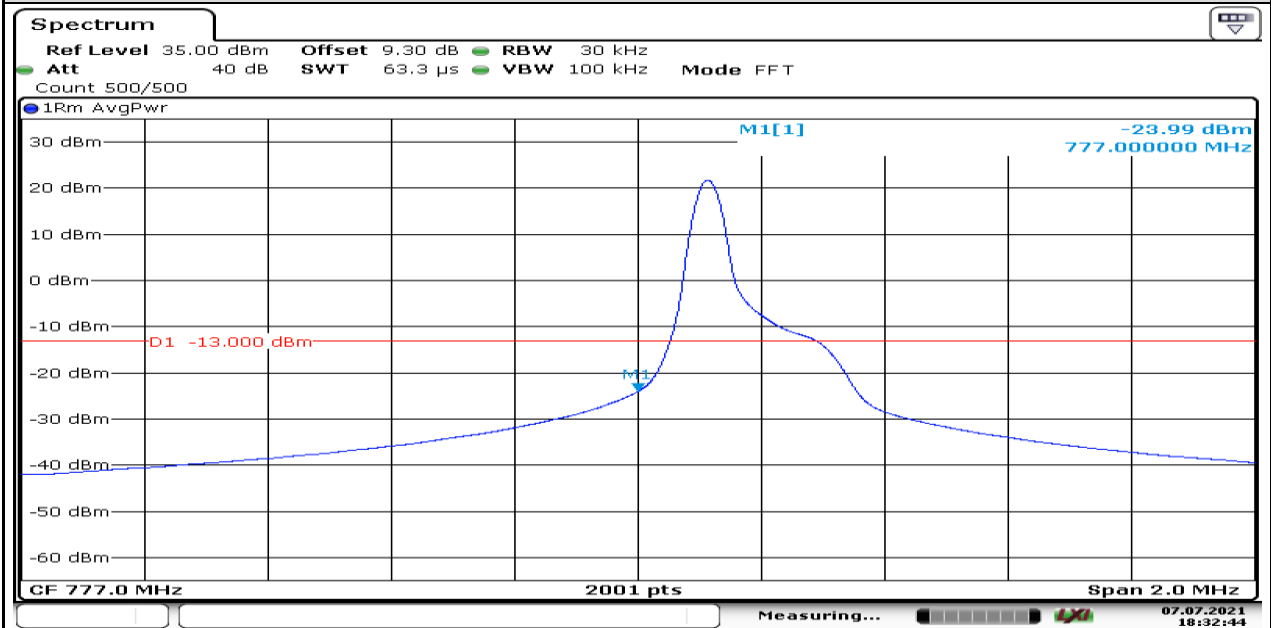
Date: 7.JUL.2021 13:19:39

Band13-Stand-Alone-3.75kHz-NaN-BPSK-23182-1@0--23.99-PASS



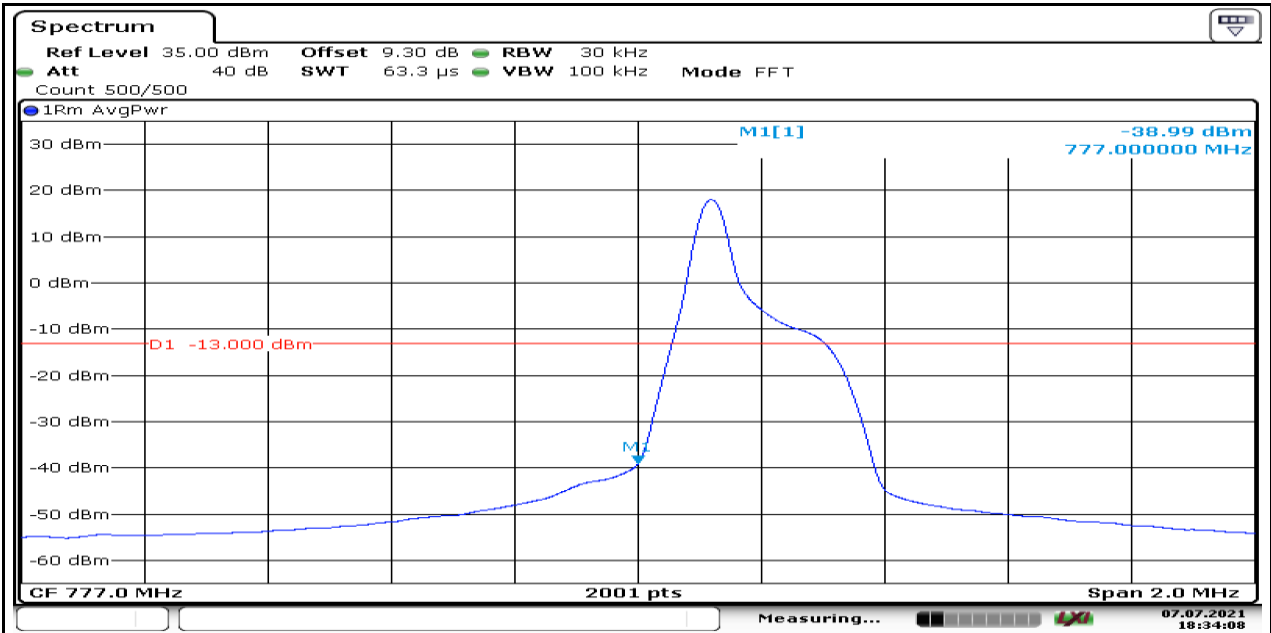
Date: 7.JUL.2021 18:32:26

Band13-Stand-Alone-3.75kHz-NaN-QPSK-23182-1@0--23.99-PASS



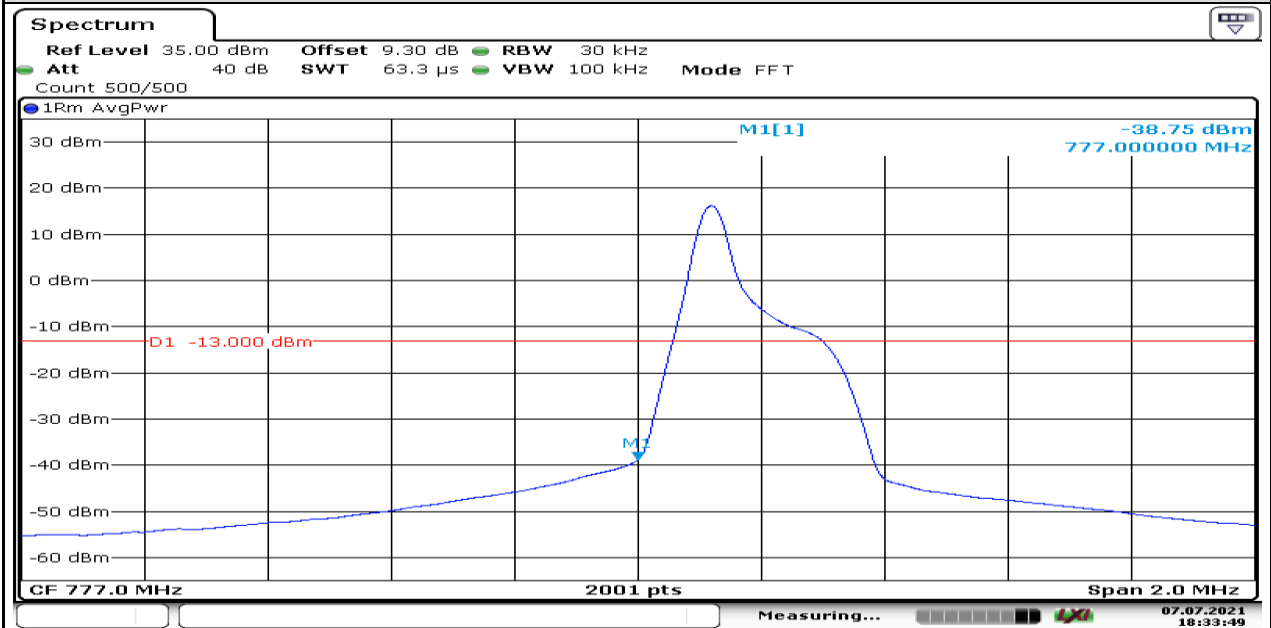
Date: 7.JUL.2021 18:32:44

Band13-Stand-Alone-15kHz-NaN-BPSK-23182-1@0--38.99-PASS



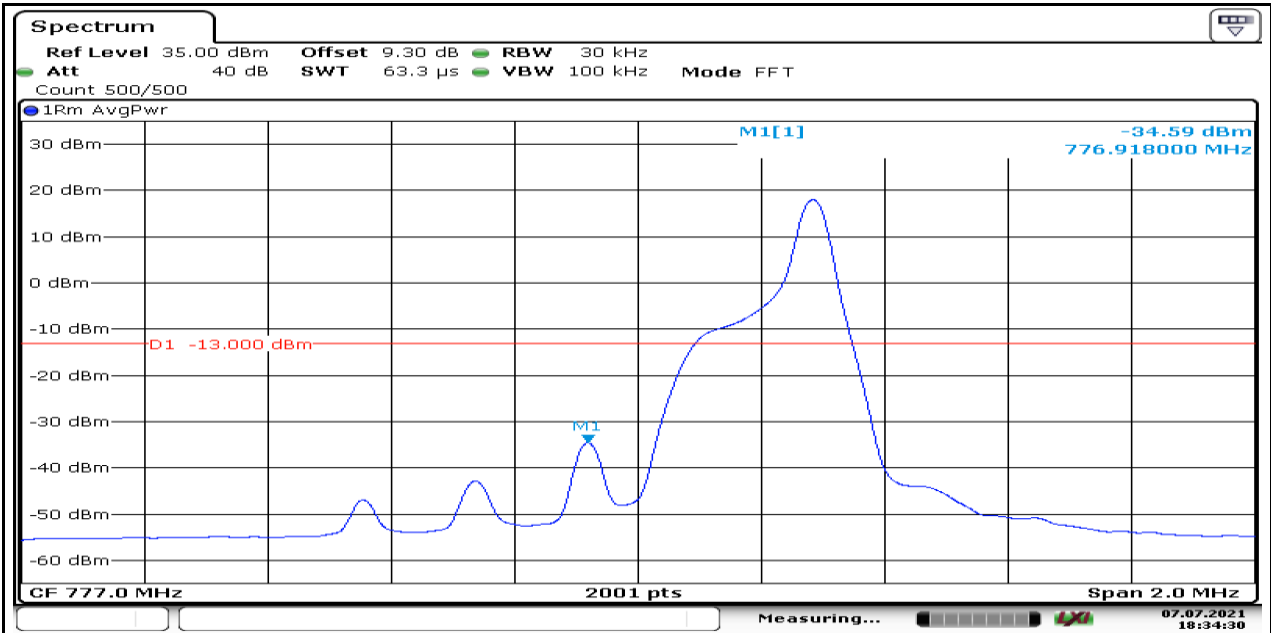
Date: 7.JUL.2021 18:34:07

Band13-Stand-Alone-15kHz-NaN-QPSK-23182-1@0--38.75-PASS



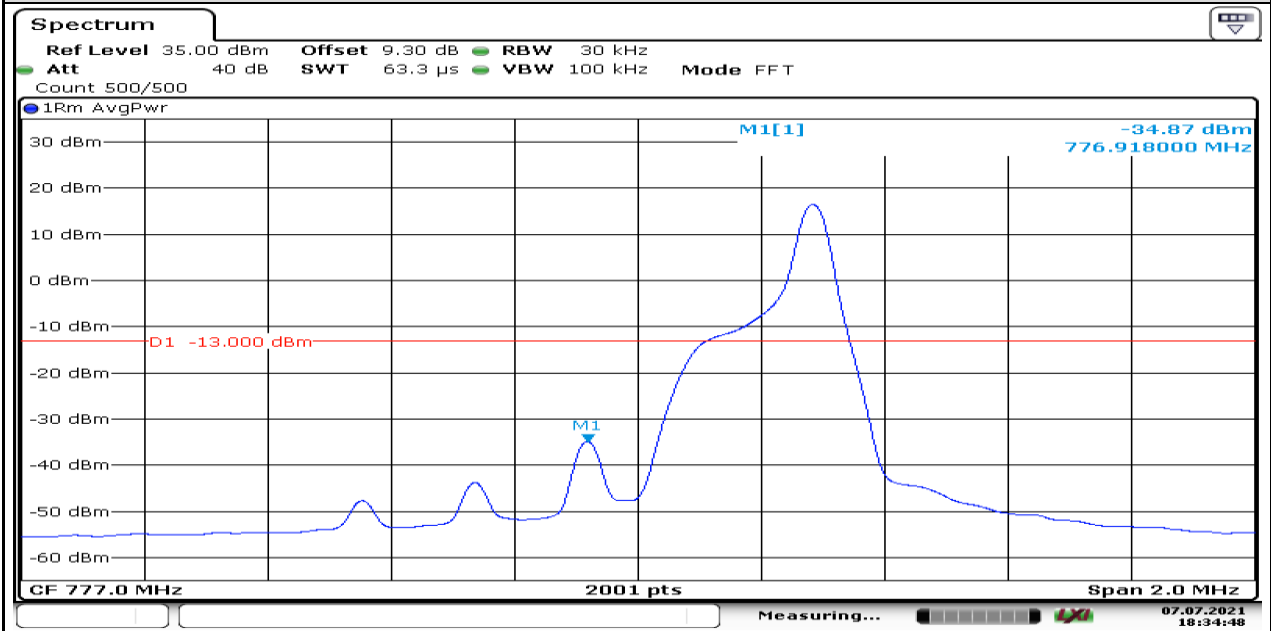
Date: 7.JUL.2021 18:33:48

Band13-Stand-Alone-15kHz-NaN-BPSK-23182-1@11--34.59-PASS



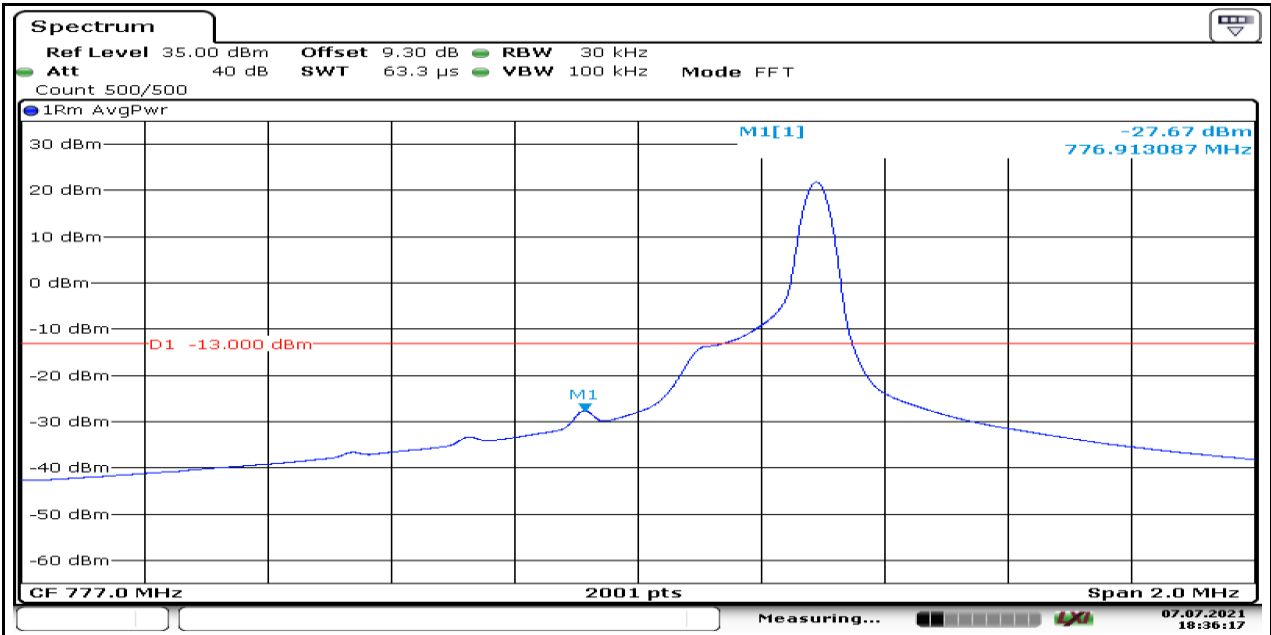
Date: 7.JUL.2021 18:34:30

Band13-Stand-Alone-15kHz-NaN-QPSK-23182-1@11-34.87-PASS

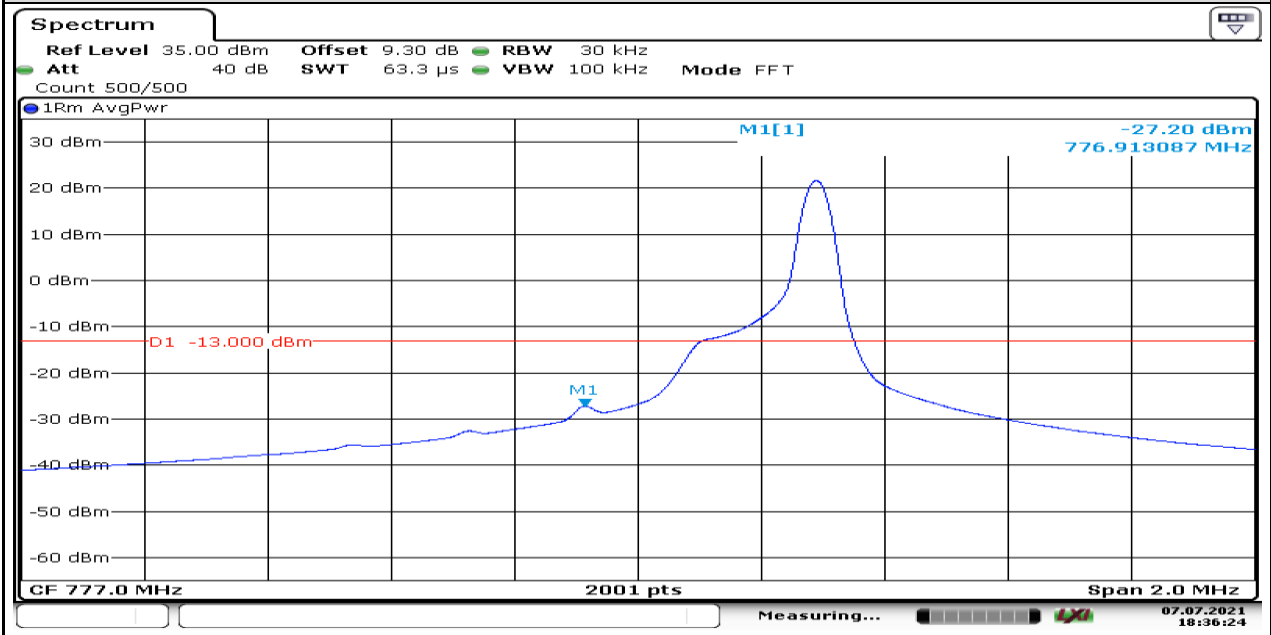


Date: 7.JUL.2021 18:34:47

Band13-Stand-Alone-3.75kHz-NaN-BPSK-23182-1@47-27.67-PASS

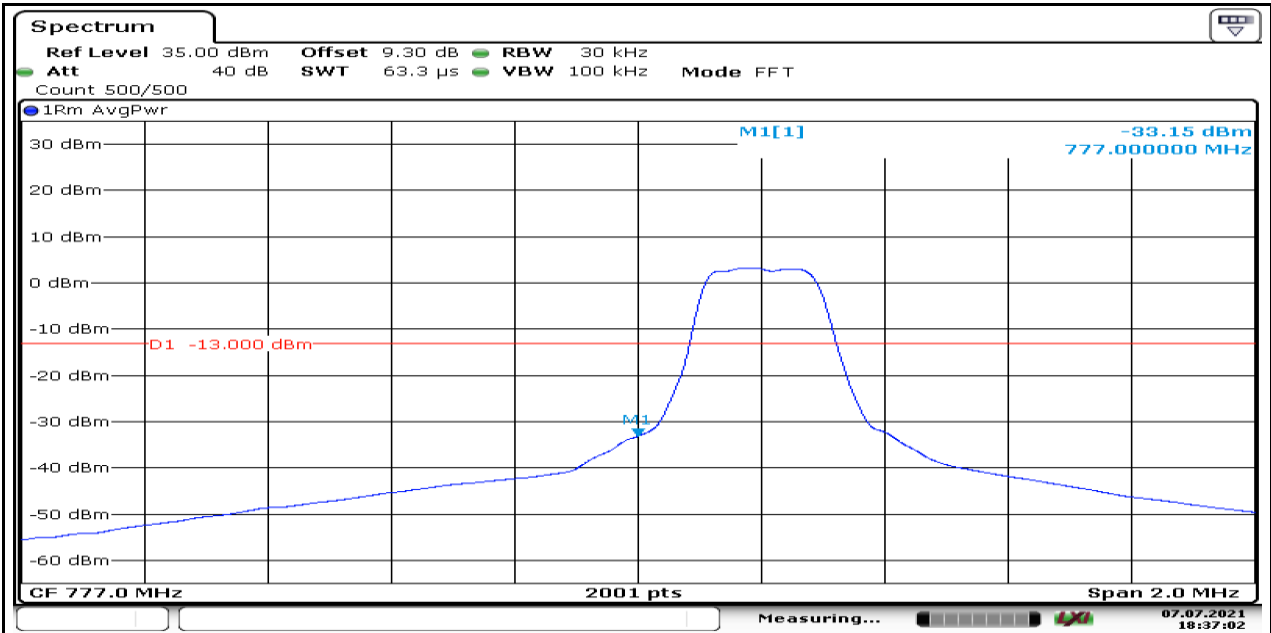


Band13-Stand-Alone-3.75kHz-NaN-QPSK-23182-1@47--27.20-PASS



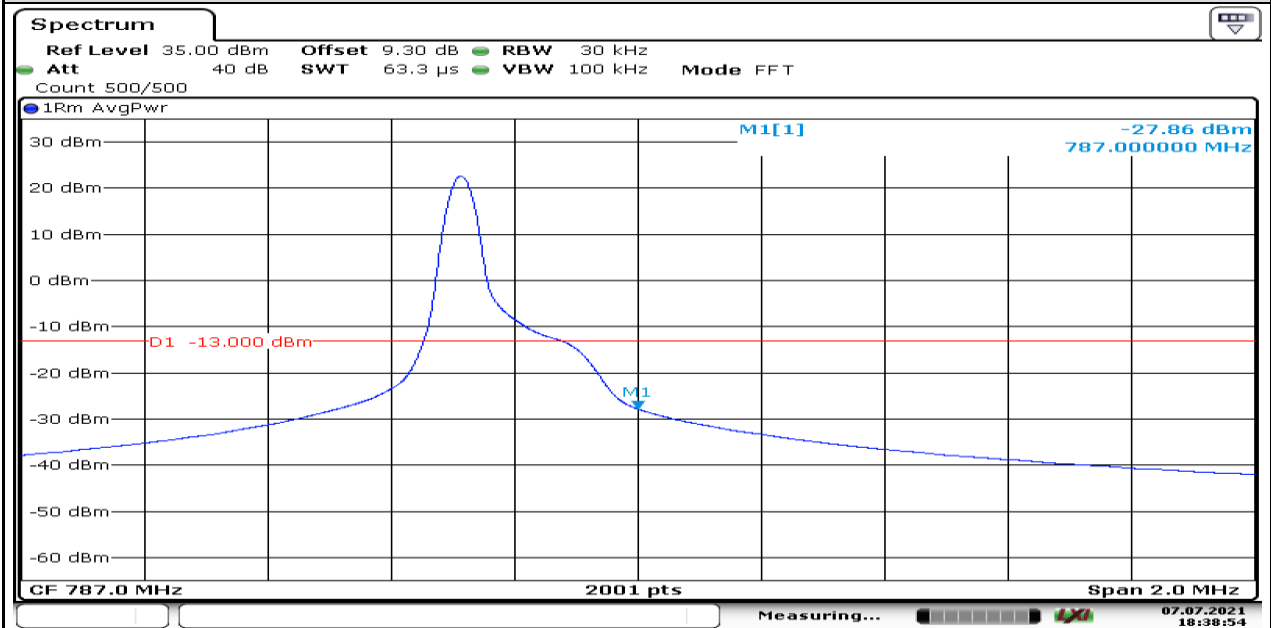
Band13-Stand-Alone-15kHz-NaN-QPSK-23182-12@0--33.15-PASS





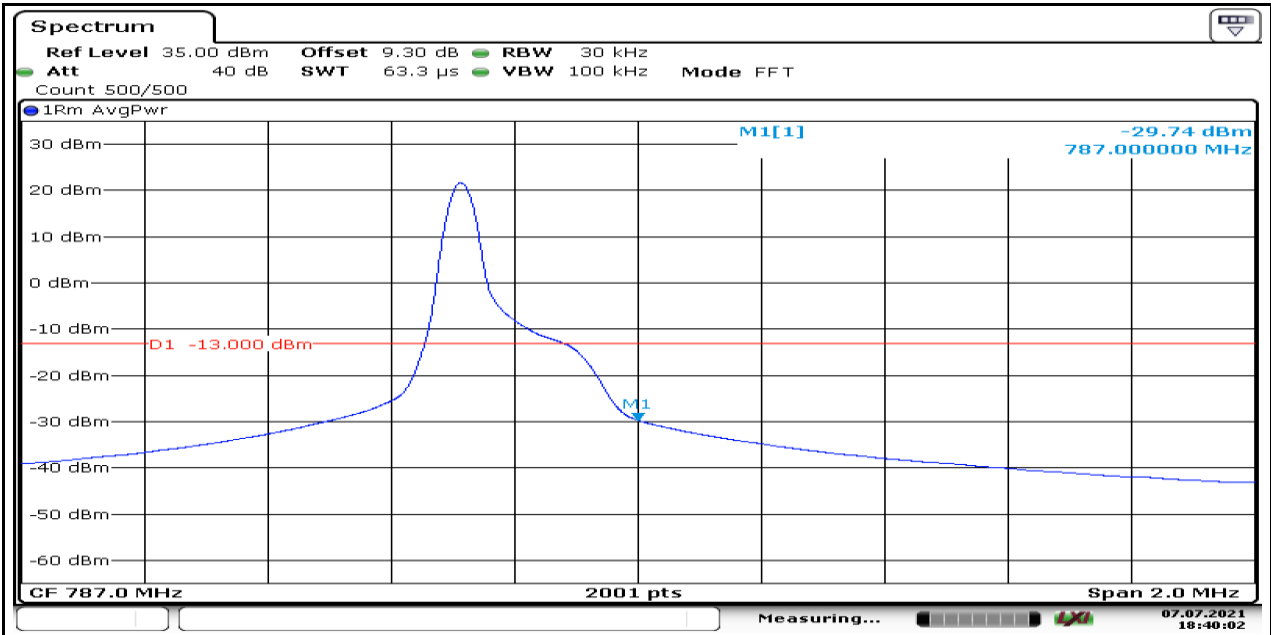
Date: 7.JUL.2021 18:37:02

Band13-Stand-Alone-3.75kHz-NaN-BPSK-23278-1@0--27.86-PASS



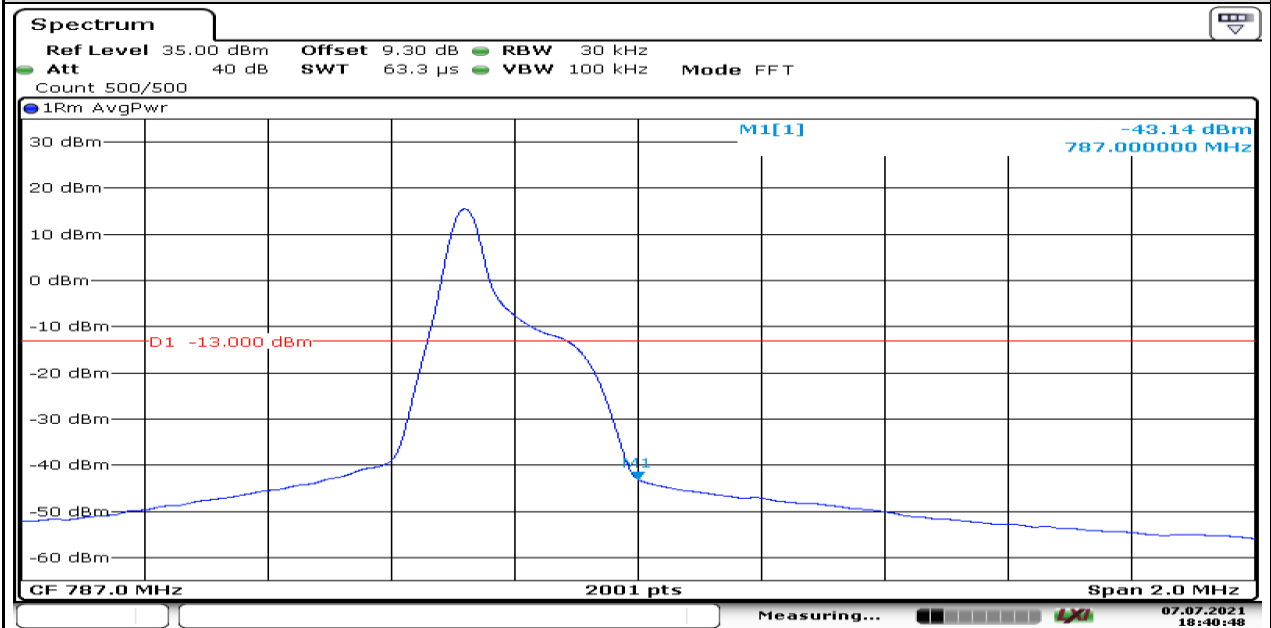
Date: 7.JUL.2021 18:38:54

Band13-Stand-Alone-3.75kHz-NaN-QPSK-23278-1@0--29.74-PASS



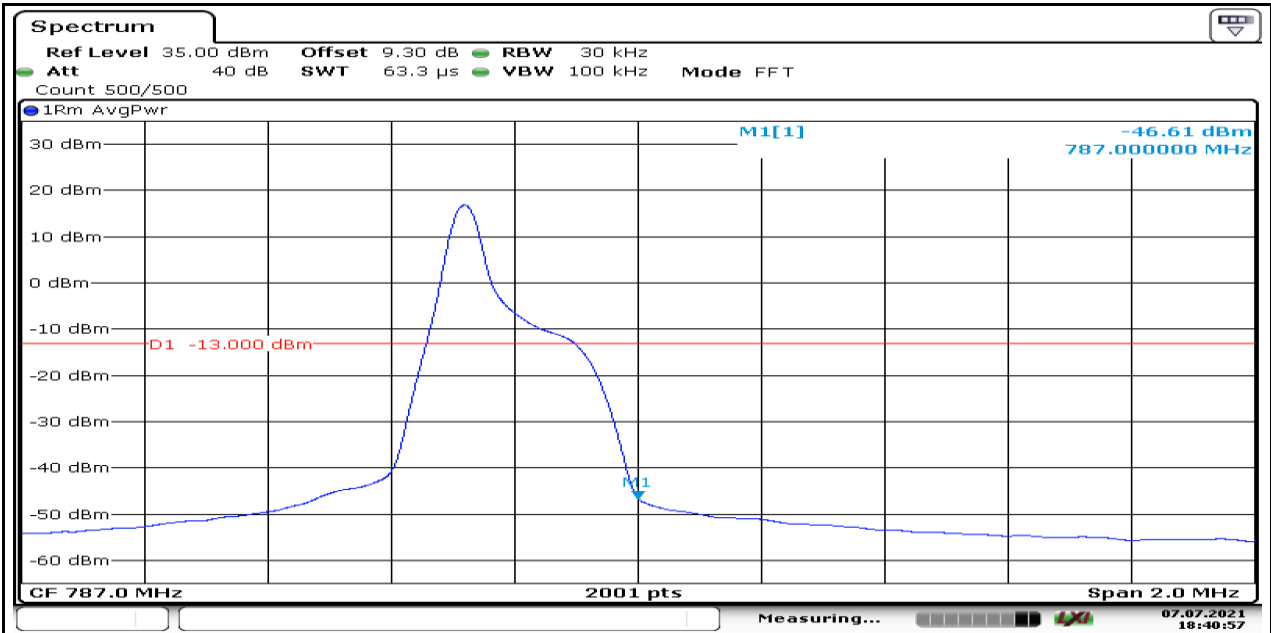
Date: 7.JUL.2021 18:40:02

Band13-Stand-Alone-15kHz-NaN-BPSK-23278-1@0--43.14-PASS



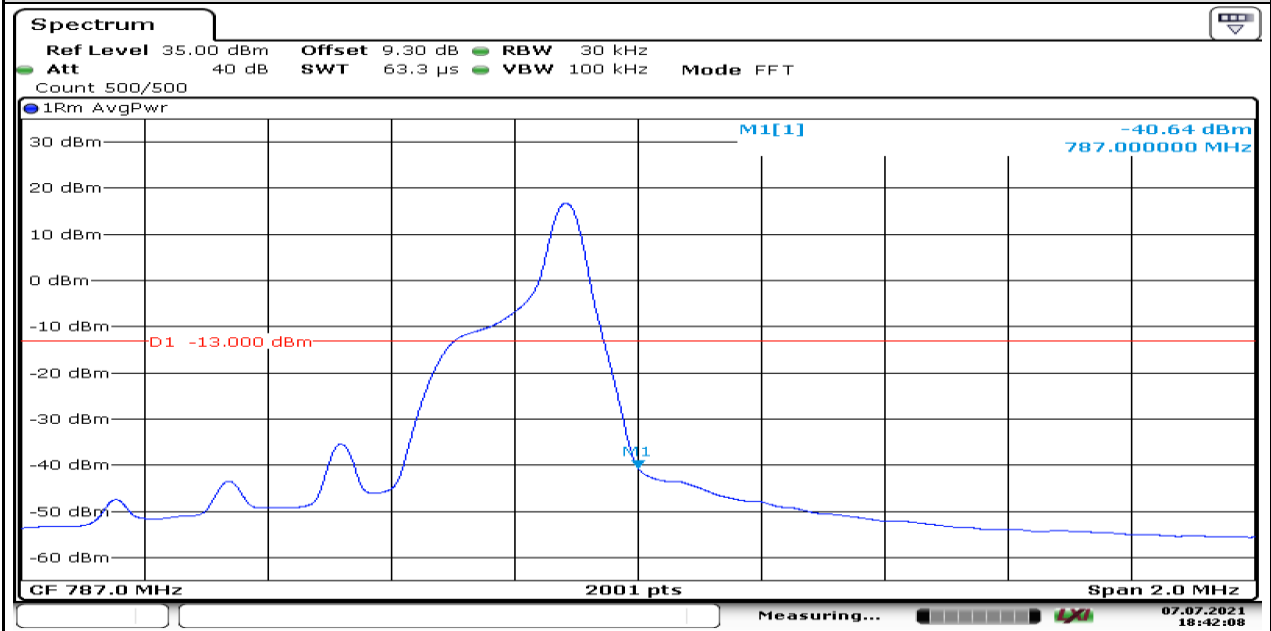
Date: 7.JUL.2021 18:40:48

Band13-Stand-Alone-15kHz-NaN-QPSK-23278-1@0--46.61-PASS



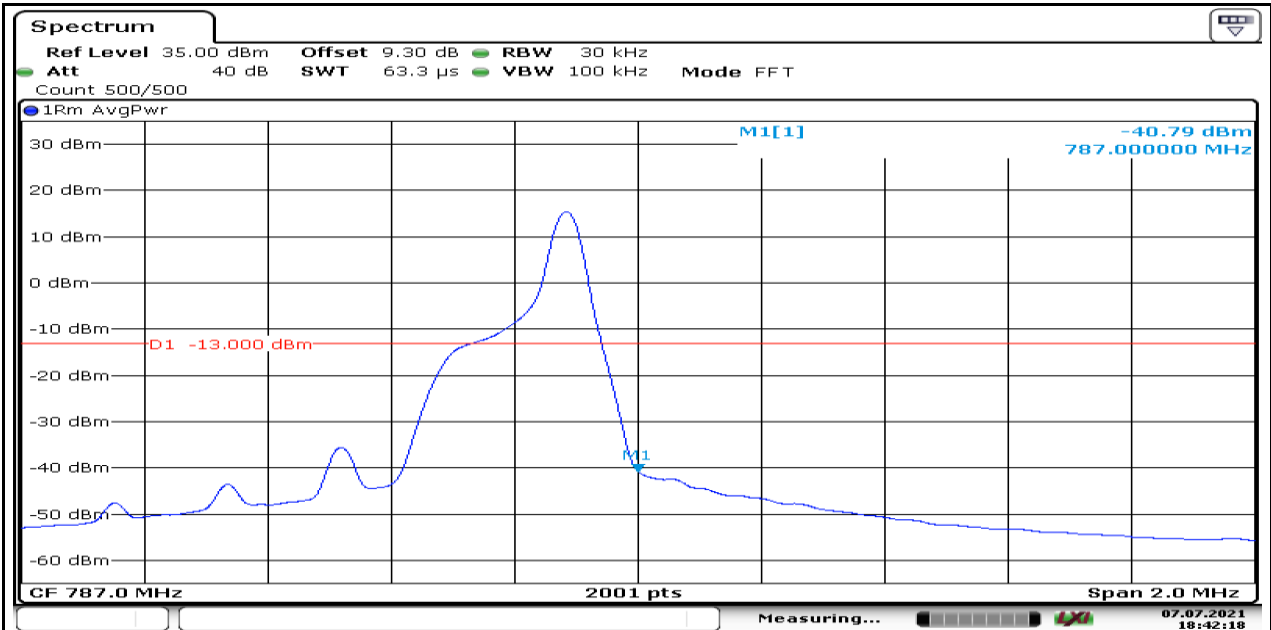
Date: 7.JUL.2021 18:40:57

Band13-Stand-Alone-15kHz-NaN-BPSK-23278-1@11--40.64-PASS



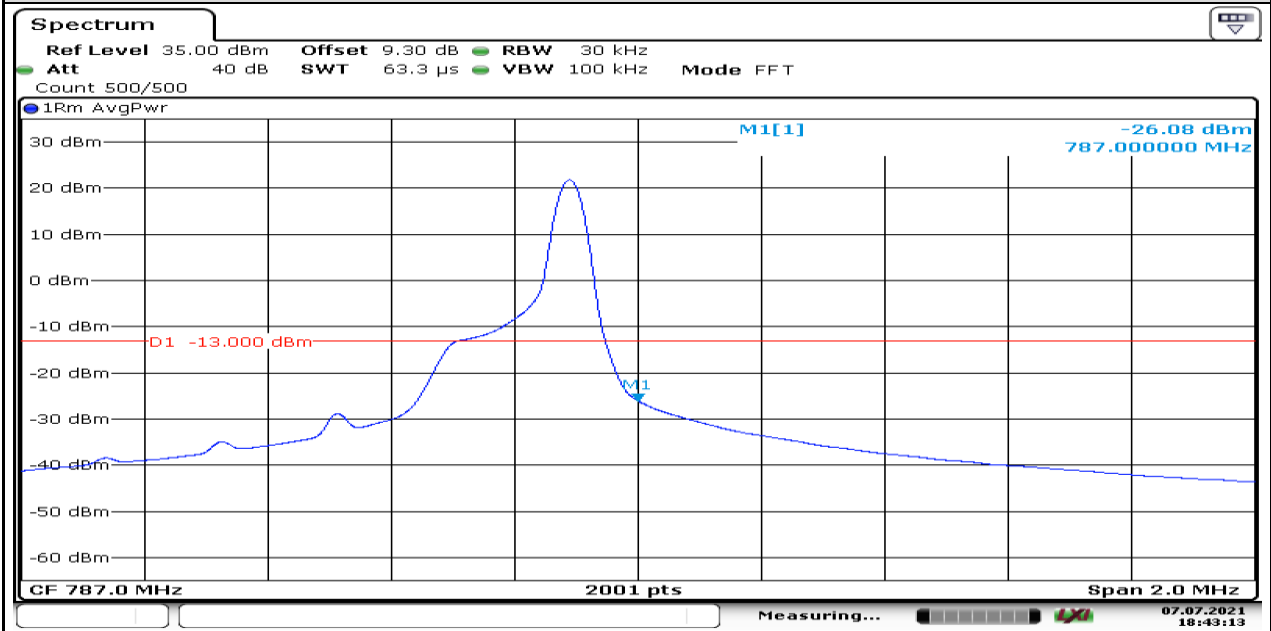
Date: 7.JUL.2021 18:42:08

Band13-Stand-Alone-15kHz-NaN-QPSK-23278-1@11--40.79-PASS



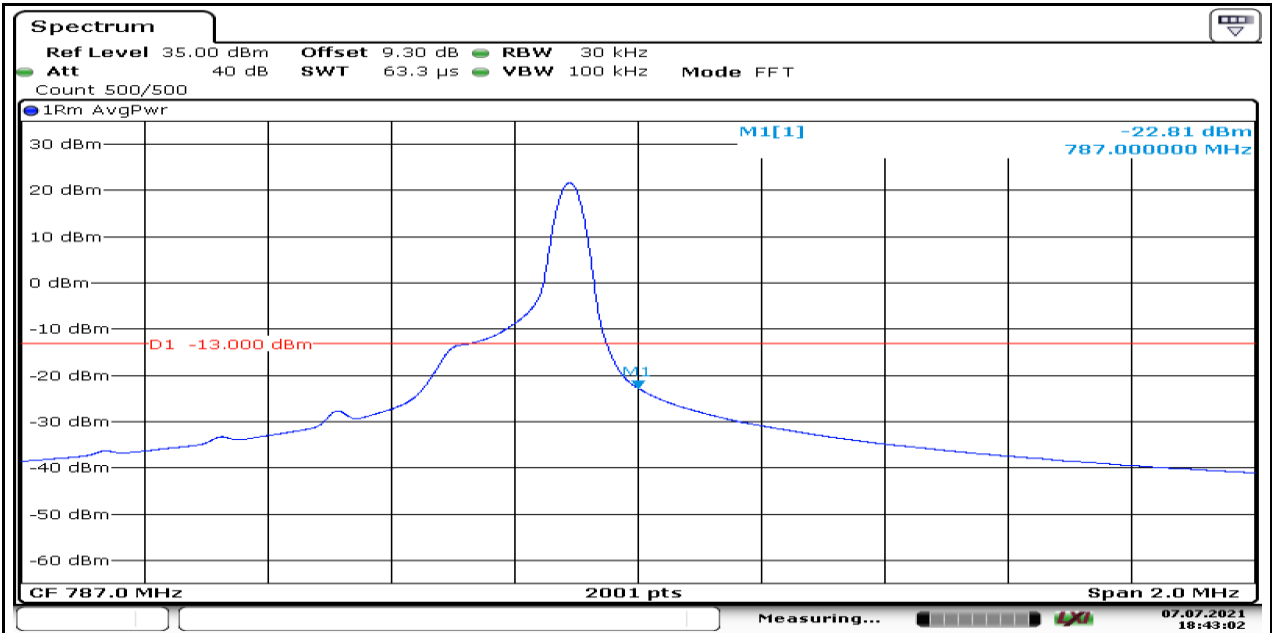
Date: 7.JUL.2021 18:42:18

Band13-Stand-Alone-3.75kHz-NaN-BPSK-23278-1@47--26.08-PASS



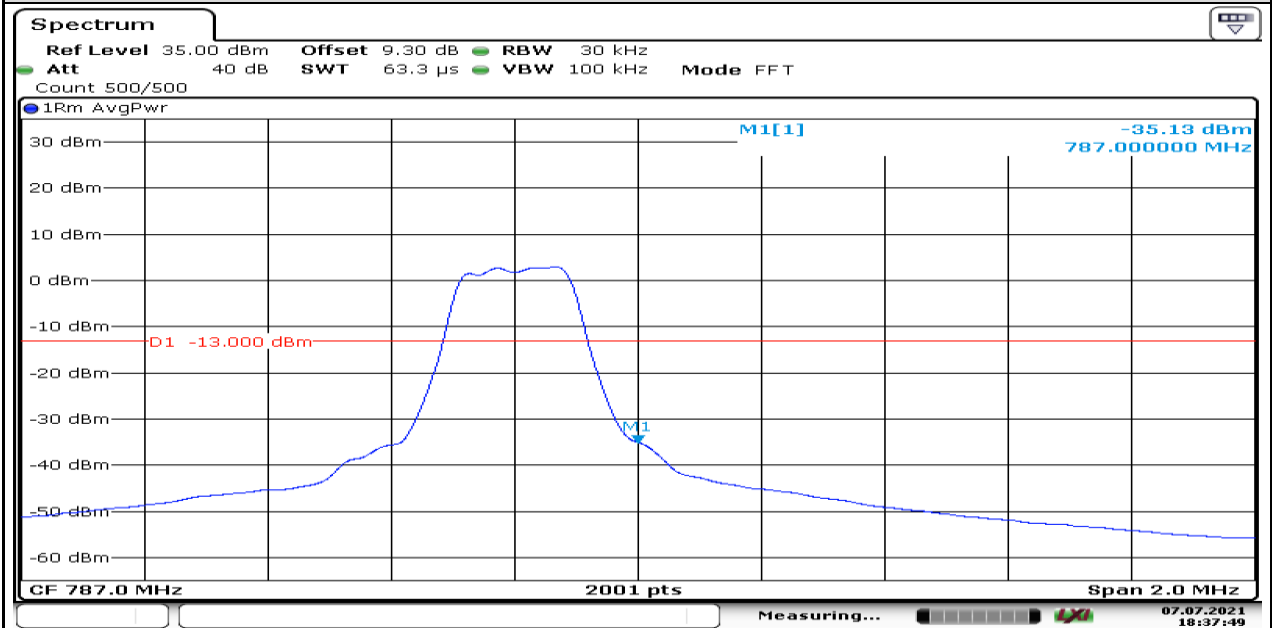
Date: 7.JUL.2021 18:43:13

Band13-Stand-Alone-3.75kHz-NaN-QPSK-23278-1@47--22.81-PASS



Date: 7.JUL.2021 18:43:02

Band13-Stand-Alone-15kHz-NaN-QPSK-23278-12@0--35.13-PASS



Date: 7.JUL.2021 18:37:49

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

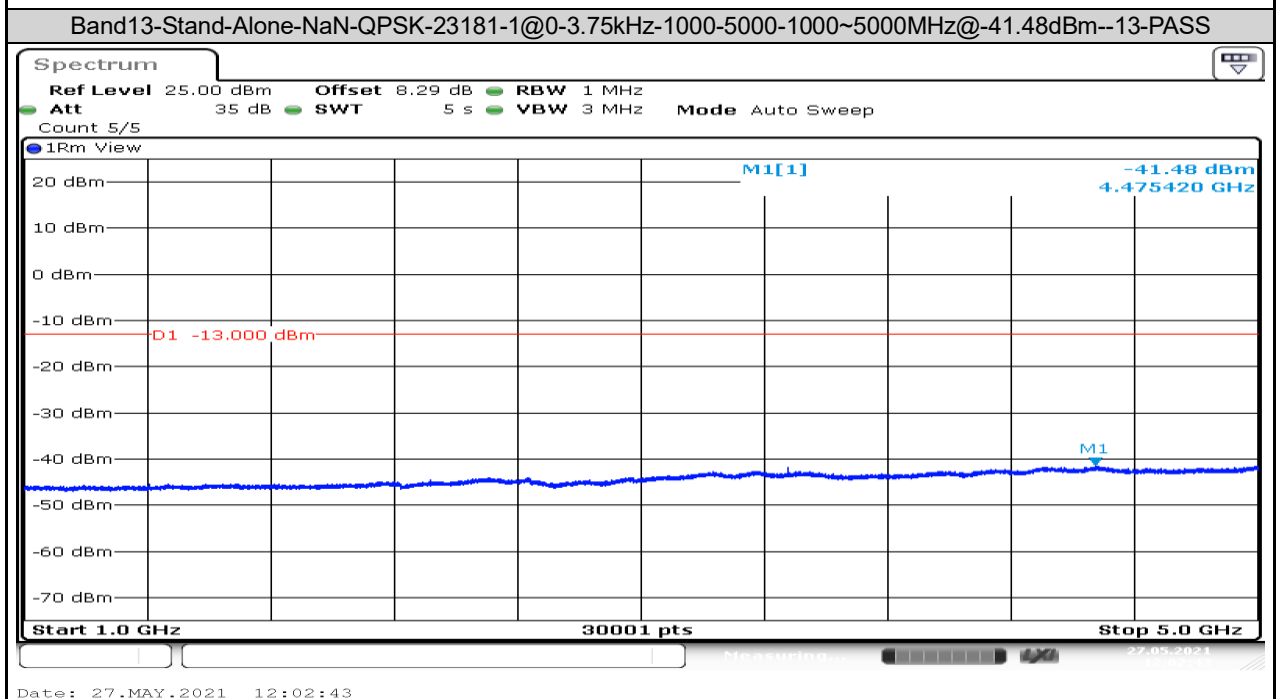
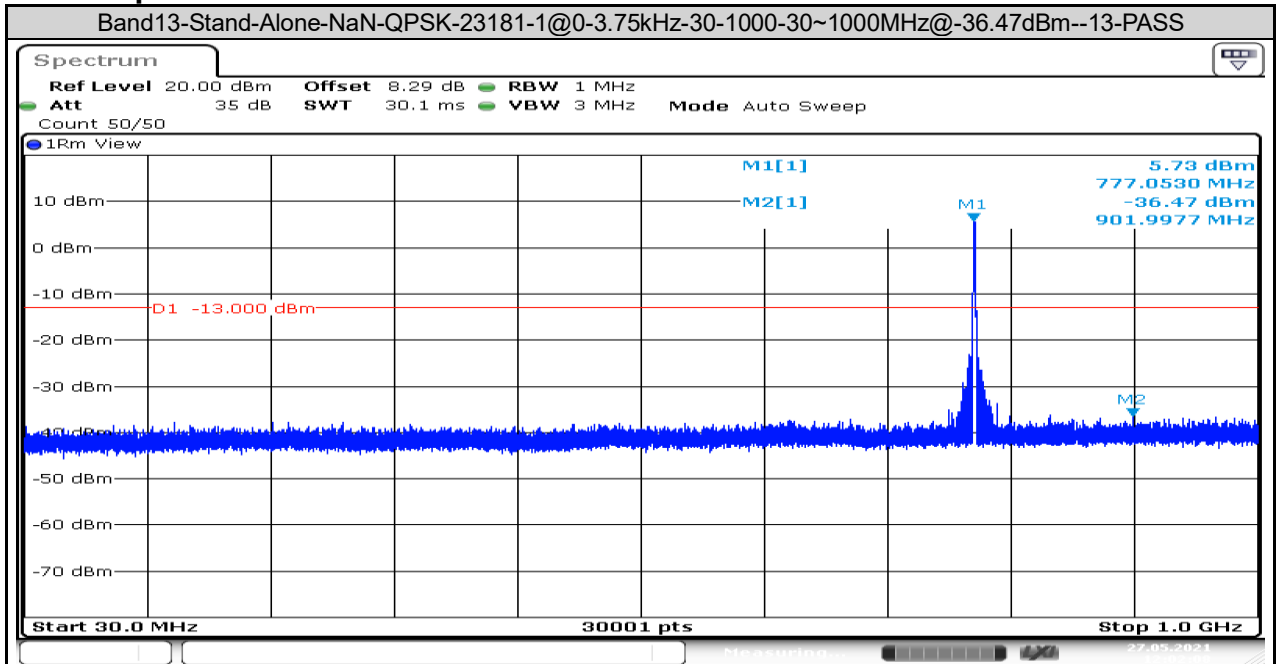
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	30~1000MHz@-36.47dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	1000~5000MHz@-41.48dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	5000~12000MHz@-54.34dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@0	12000~26500MHz@-50.9dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	30~1000MHz@-36.46dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	1000~5000MHz@-41.56dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	5000~12000MHz@-54.62dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23181	1@47	12000~26500MHz@-50.83dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	30~1000MHz@-36.21dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	1000~5000MHz@-41.29dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	5000~12000MHz@-54.42dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	12000~26500MHz@-50.44dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	30~1000MHz@-35.69dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	1000~5000MHz@-41.21dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	5000~12000MHz@-54.33dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	12000~26500MHz@-50.29dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	30~1000MHz@-36.37dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	1000~5000MHz@-41.28dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	5000~12000MHz@-54.61dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@0	12000~26500MHz@-50.55dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	30~1000MHz@-36.34dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	1000~5000MHz@-41.4dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	5000~12000MHz@-54.59dBm	-13	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23279	1@47	12000~26500MHz@-50.66dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	30~1000MHz@-36.13dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	1000~5000MHz@-41.55dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	5000~12000MHz@-54.56dBm	-13	PASS

Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@0	12000~26500MHz@-50.67dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	30~1000MHz@-36.2dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	1000~5000MHz@-41.48dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	5000~12000MHz@-54.52dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23181	1@11	12000~26500MHz@-50.77dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	30~1000MHz@-36.43dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	1000~5000MHz@-41.3dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	5000~12000MHz@-54.41dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@0	12000~26500MHz@-50.5dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	30~1000MHz@-35.94dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	1000~5000MHz@-41.21dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	5000~12000MHz@-54.33dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23230	1@11	12000~26500MHz@-50.52dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	30~1000MHz@-36.83dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	1000~5000MHz@-41.26dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	5000~12000MHz@-54.46dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@0	12000~26500MHz@-50.69dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	30~1000MHz@-36.16dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	1000~5000MHz@-41.26dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	5000~12000MHz@-54.35dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	BPSK	23279	1@11	12000~26500MHz@-50.46dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	30~1000MHz@-35.55dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	1000~5000MHz@-41.49dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	5000~12000MHz@-54.61dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23181	12@0	12000~26500MHz@-50.81dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	30~1000MHz@-34.92dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	1000~5000MHz@-41.31dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	5000~12000MHz@-54.39dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	12@0	12000~26500MHz@-50.44dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	30~1000MHz@-36.49dBm	-13	PASS

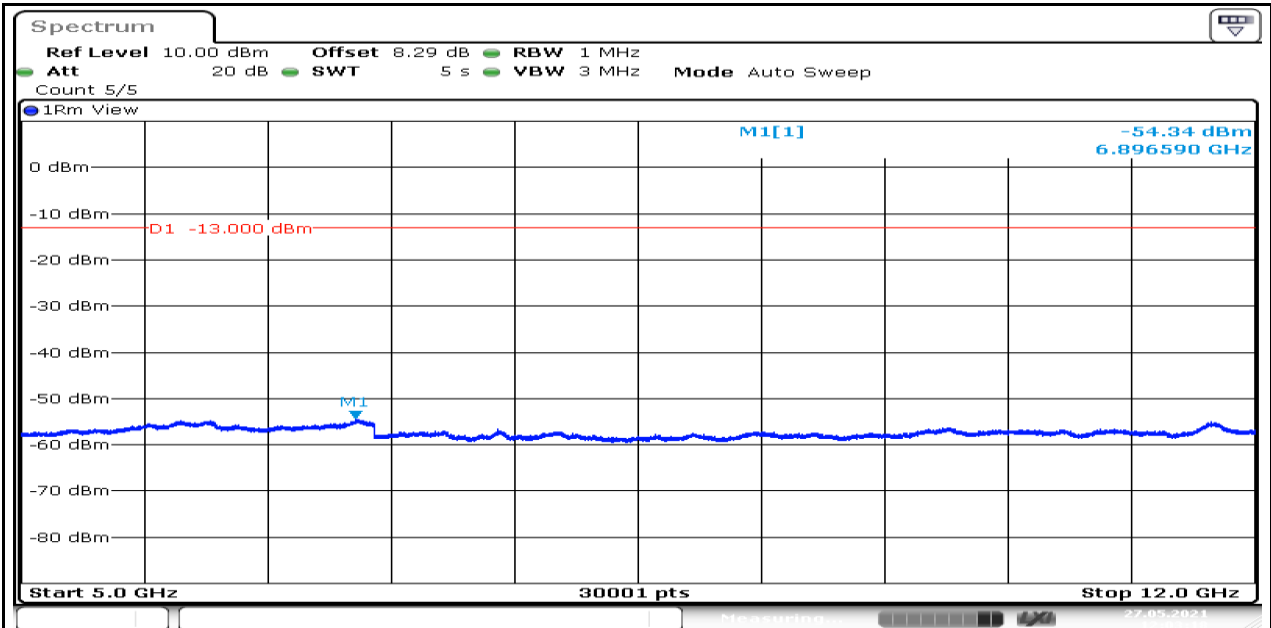
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	1000~5000MHz@-41.31dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	5000~12000MHz@-54.58dBm	-13	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23279	12@0	12000~26500MHz@-50.59dBm	-13	PASS

### Test Graphs

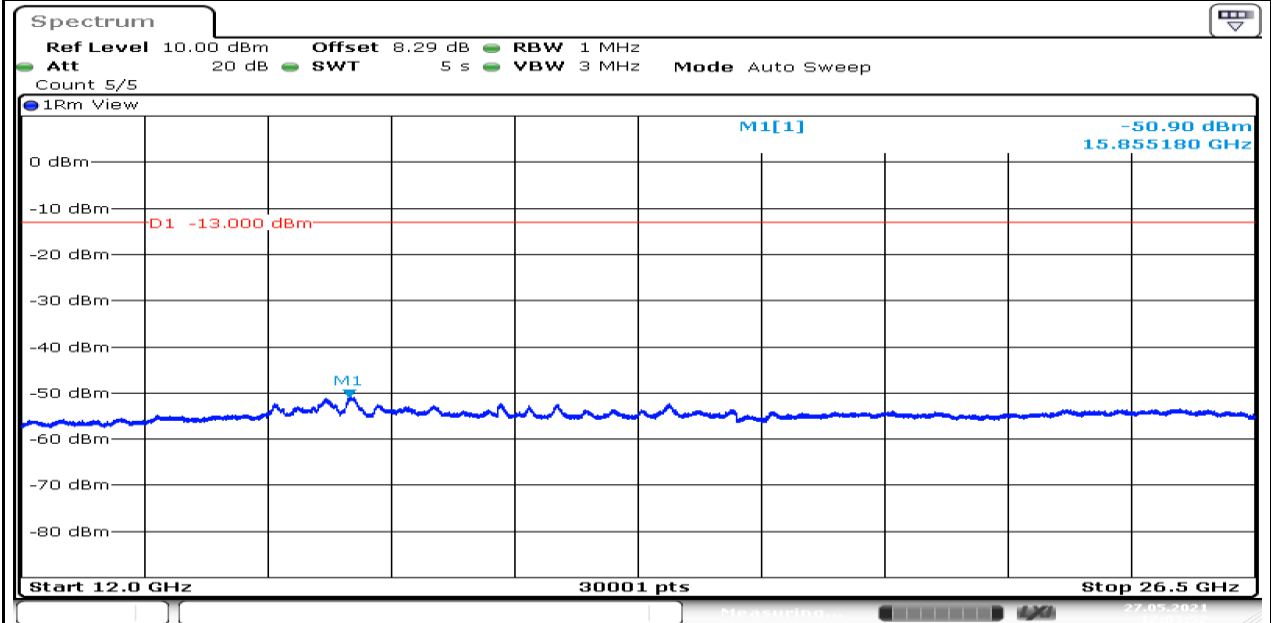


Band13-Stand-Alone-NaN-QPSK-23181-1@0-3.75kHz-5000-12000-5000~12000MHz@-54.34dBm--13-PASS

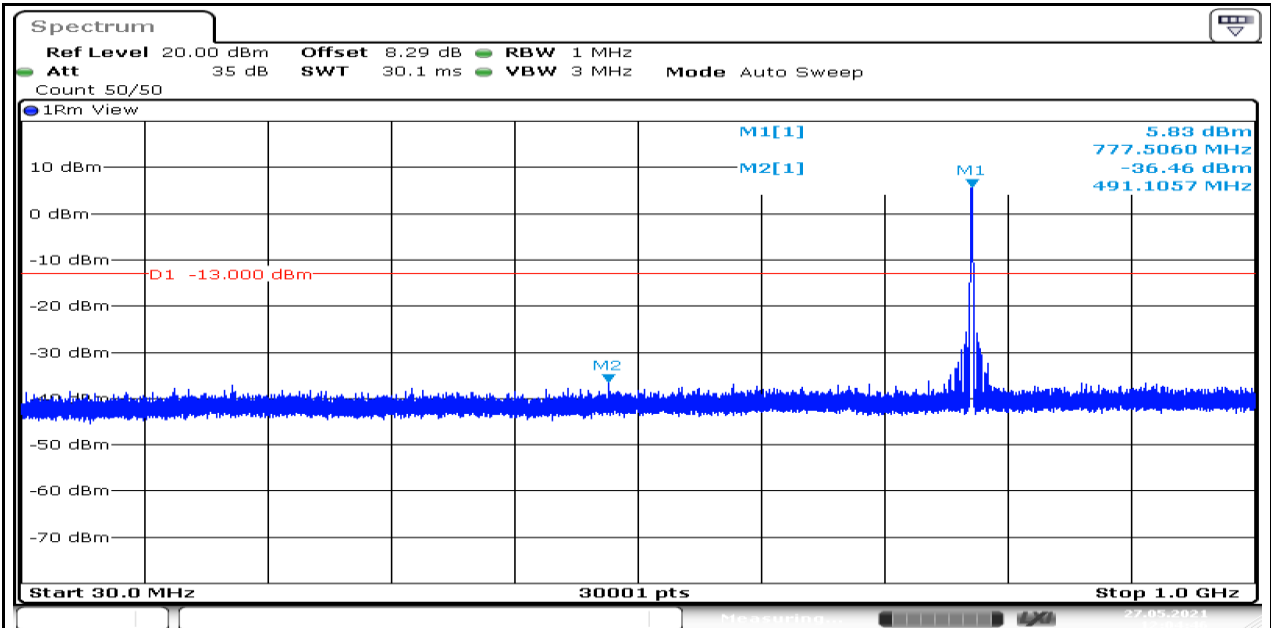




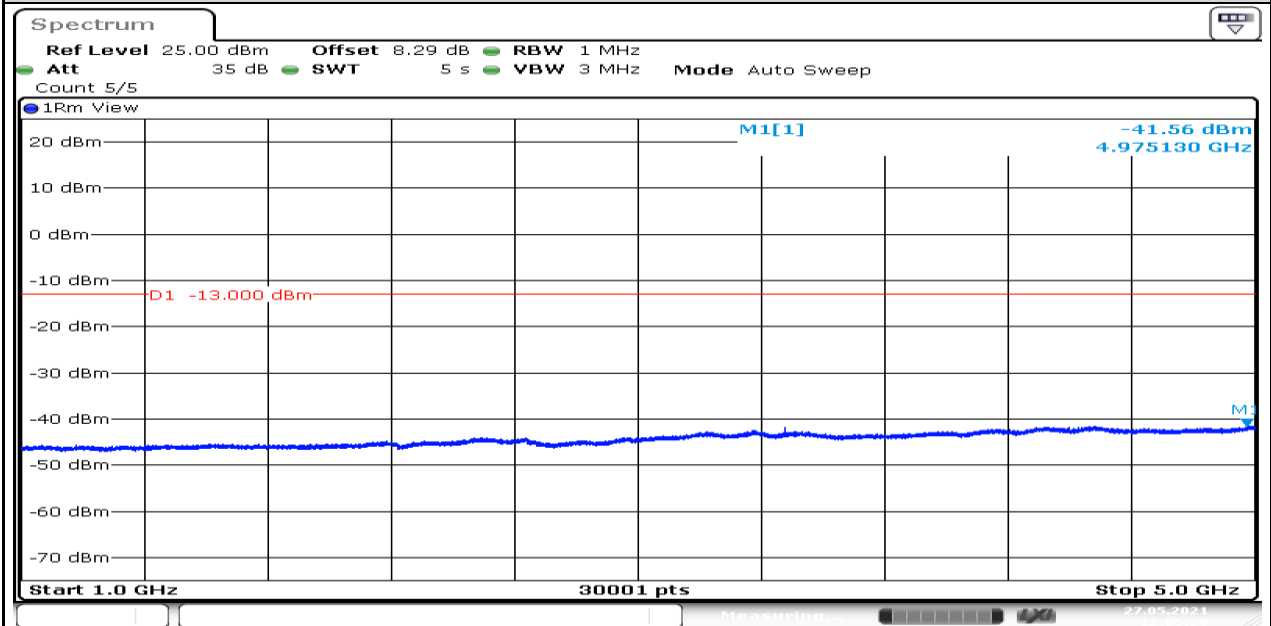
Band13-Stand-Alone-NaN-QPSK-23181-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.9dBm--13-PASS



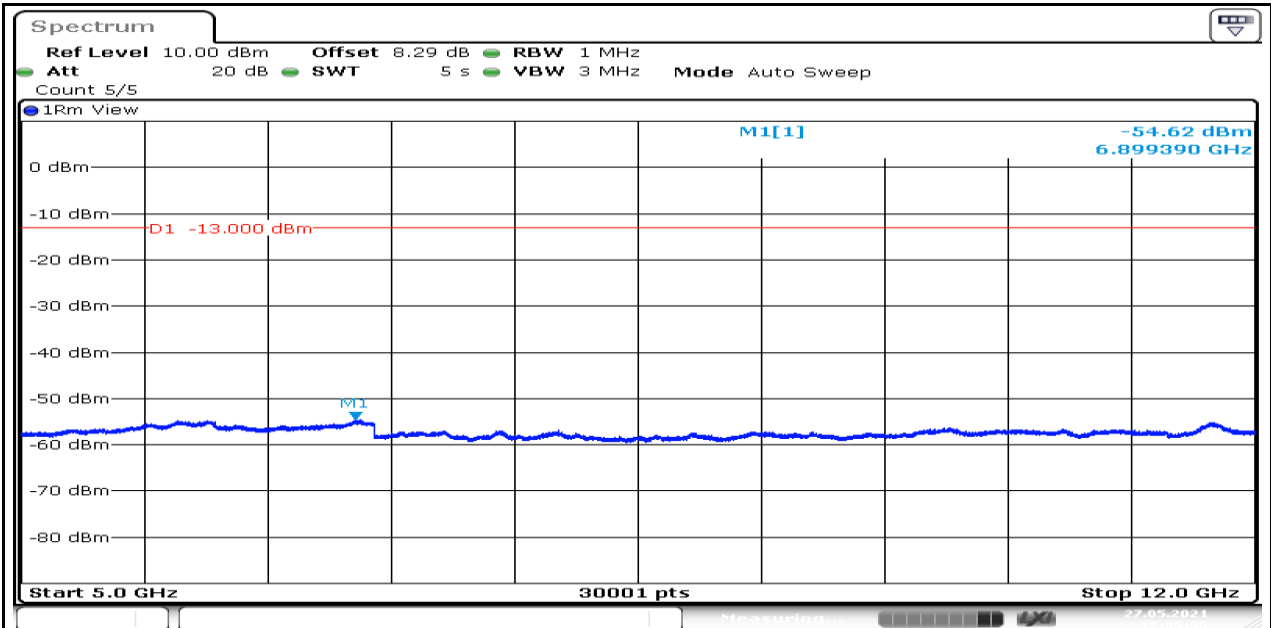
Band13-Stand-Alone-NaN-QPSK-23181-1@47-3.75kHz-30-1000-30~1000MHz@-36.46dBm--13-PASS



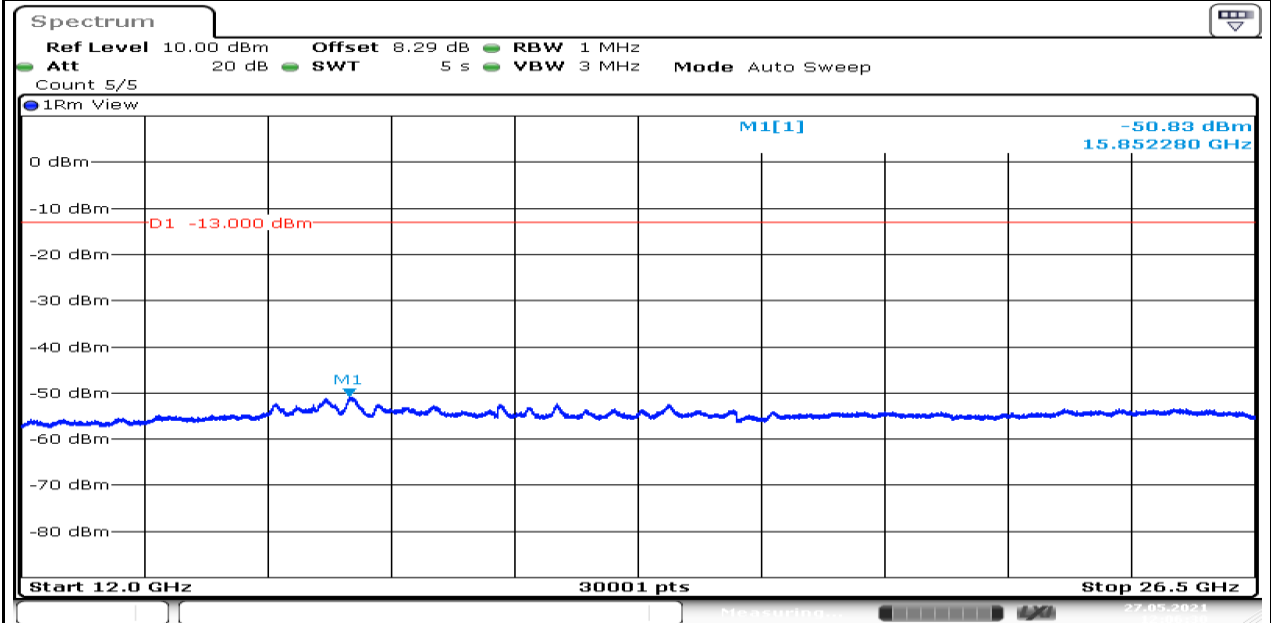
Band13-Stand-Alone-NaN-QPSK-23181-1@47-3.75kHz-1000-5000-1000~5000MHz@-41.56dBm--13-PASS



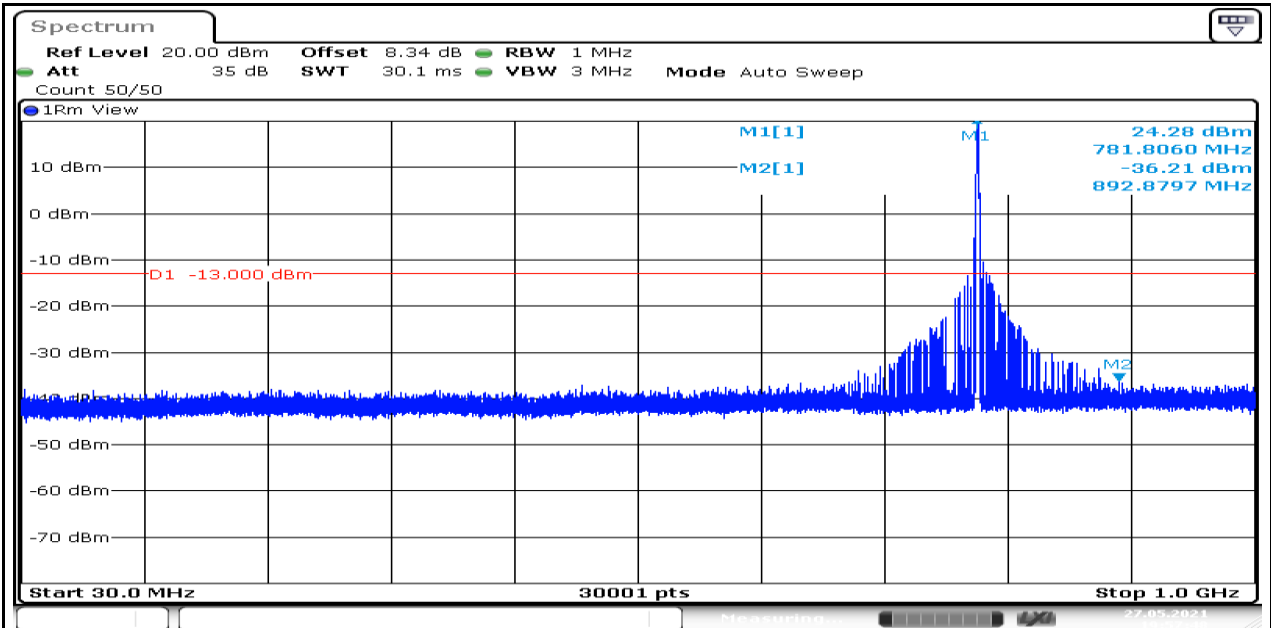
Band13-Stand-Alone-NaN-QPSK-23181-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.62dBm--13-PASS



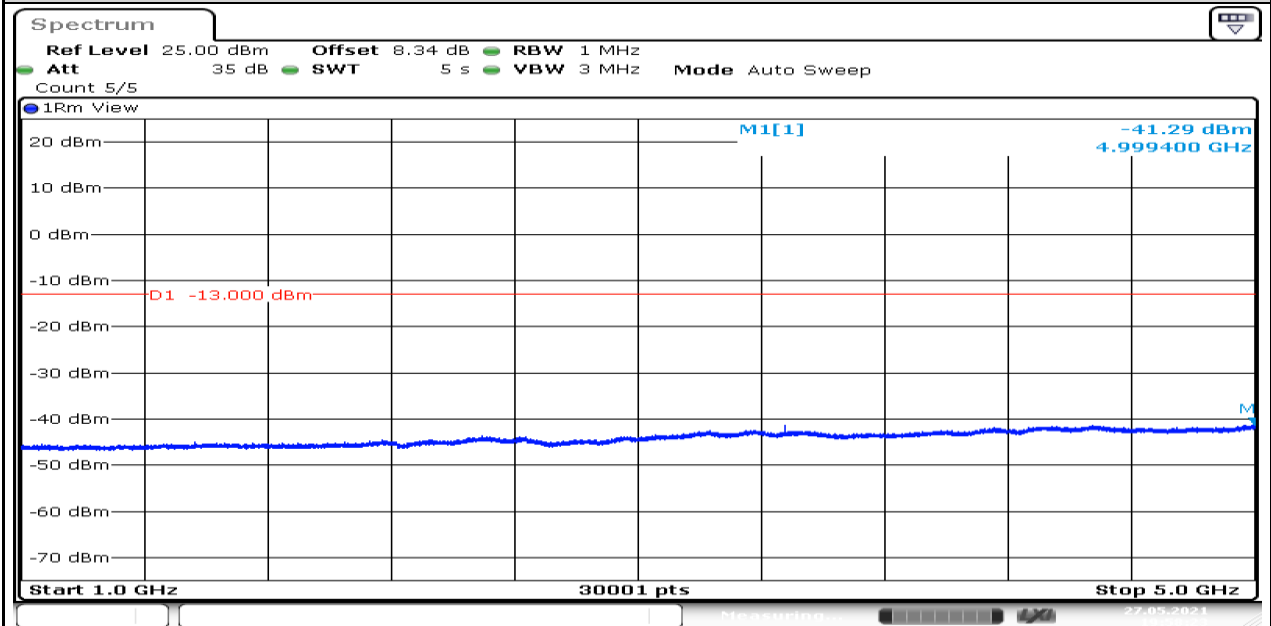
Band13-Stand-Alone-NaN-QPSK-23181-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.83dBm--13-PASS



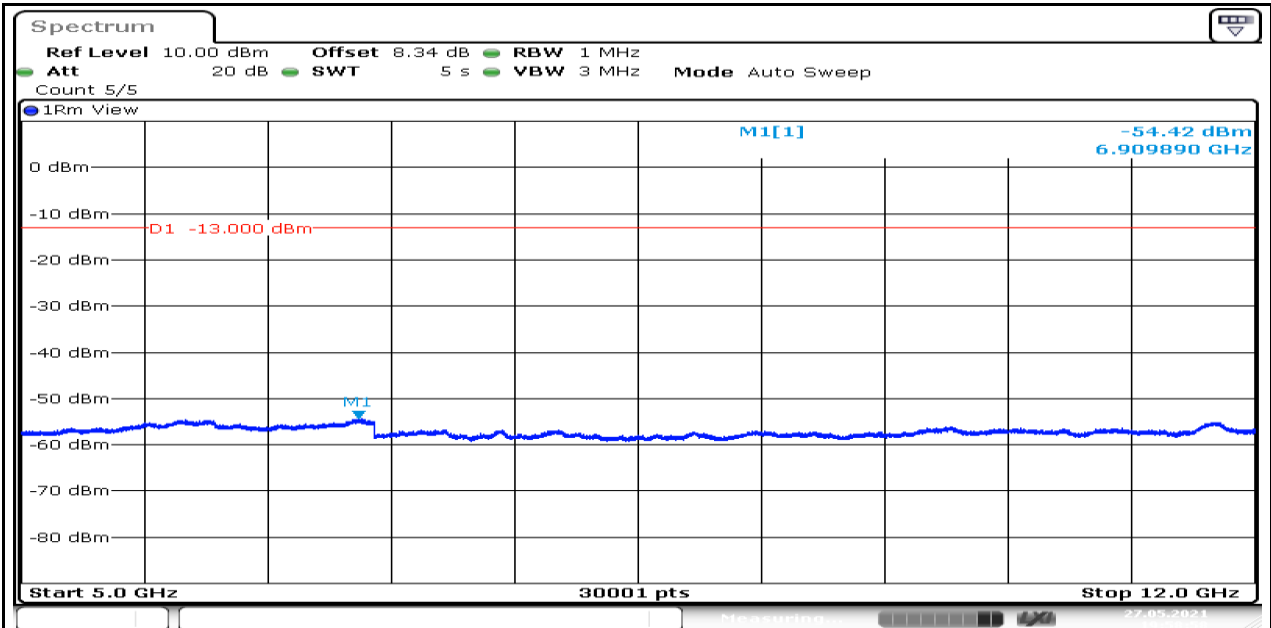
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-30-1000-30~1000MHz@-36.21dBm--13-PASS



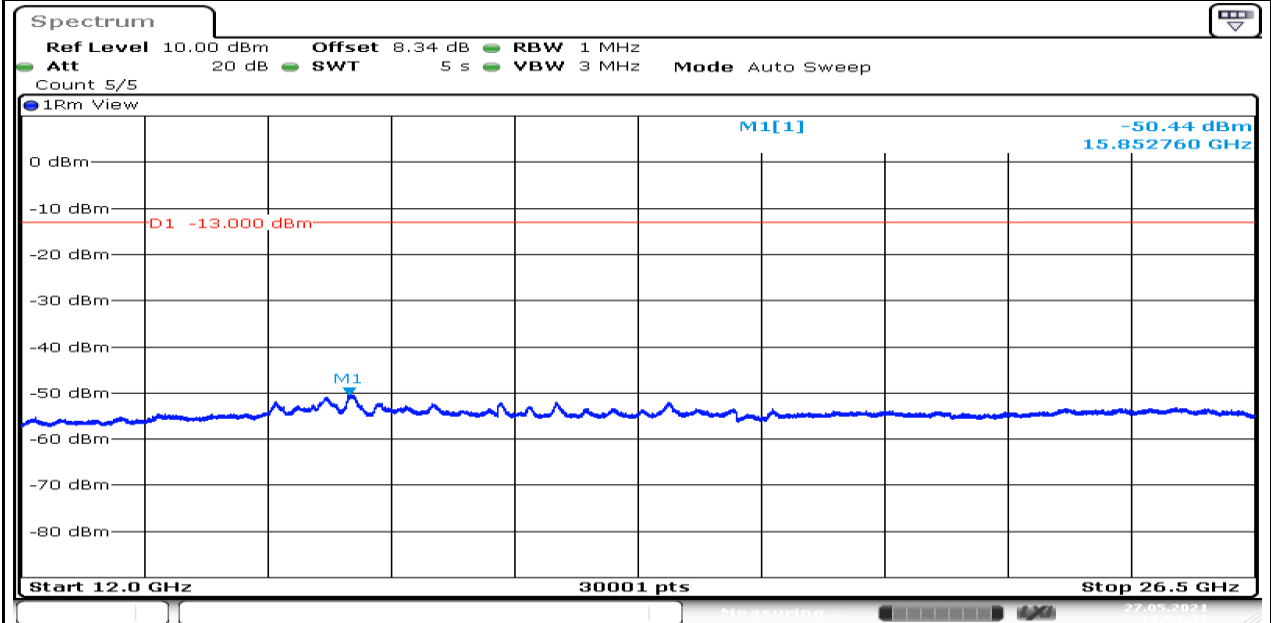
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-1000-5000-1000~5000MHz@-41.29dBm--13-PASS



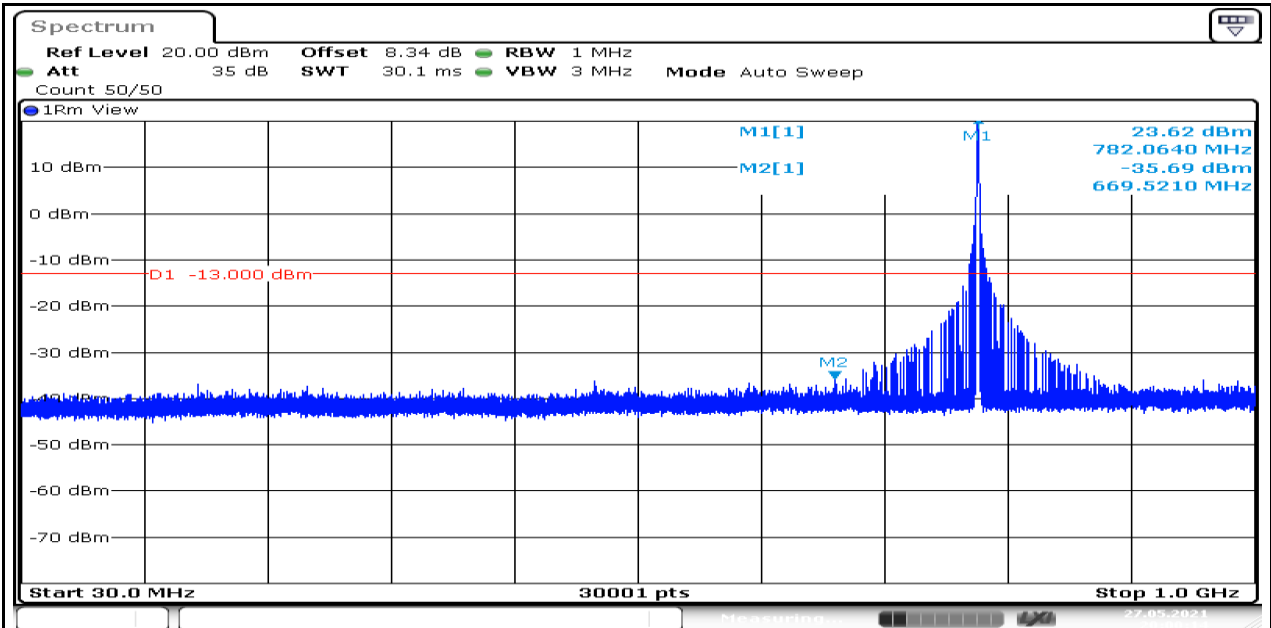
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-5000-12000-5000~12000MHz@-54.42dBm--13-PASS



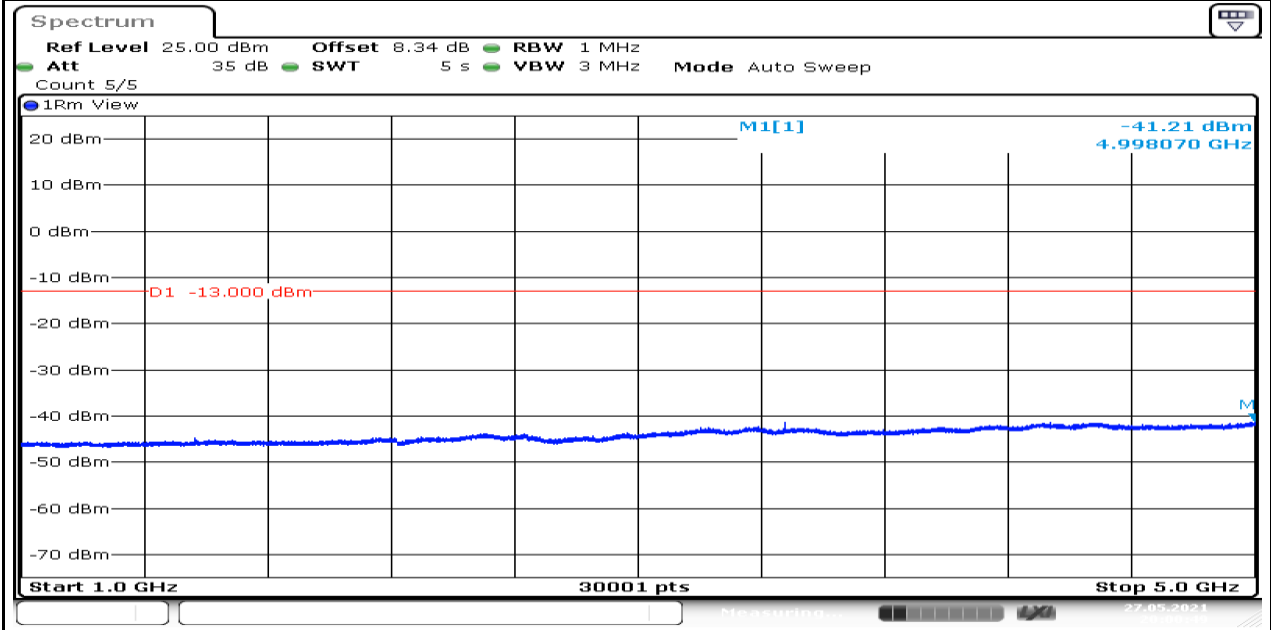
Band13-Stand-Alone-NaN-QPSK-23230-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.44dBm--13-PASS



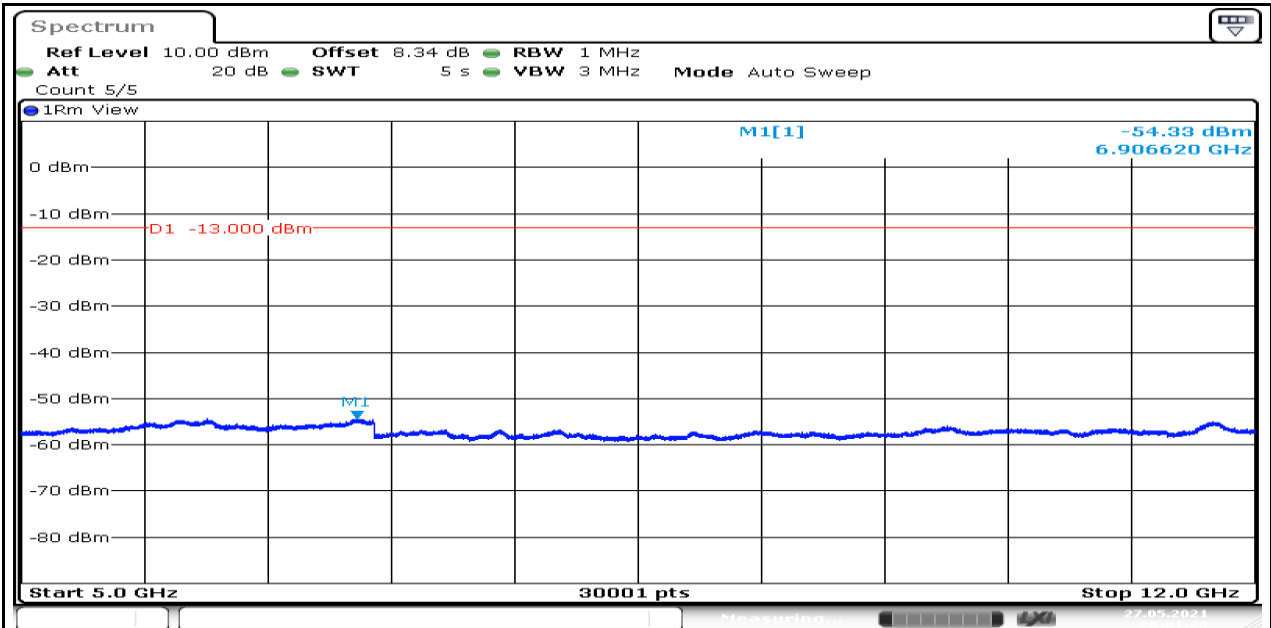
Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-30-1000-30~1000MHz@-35.69dBm--13-PASS



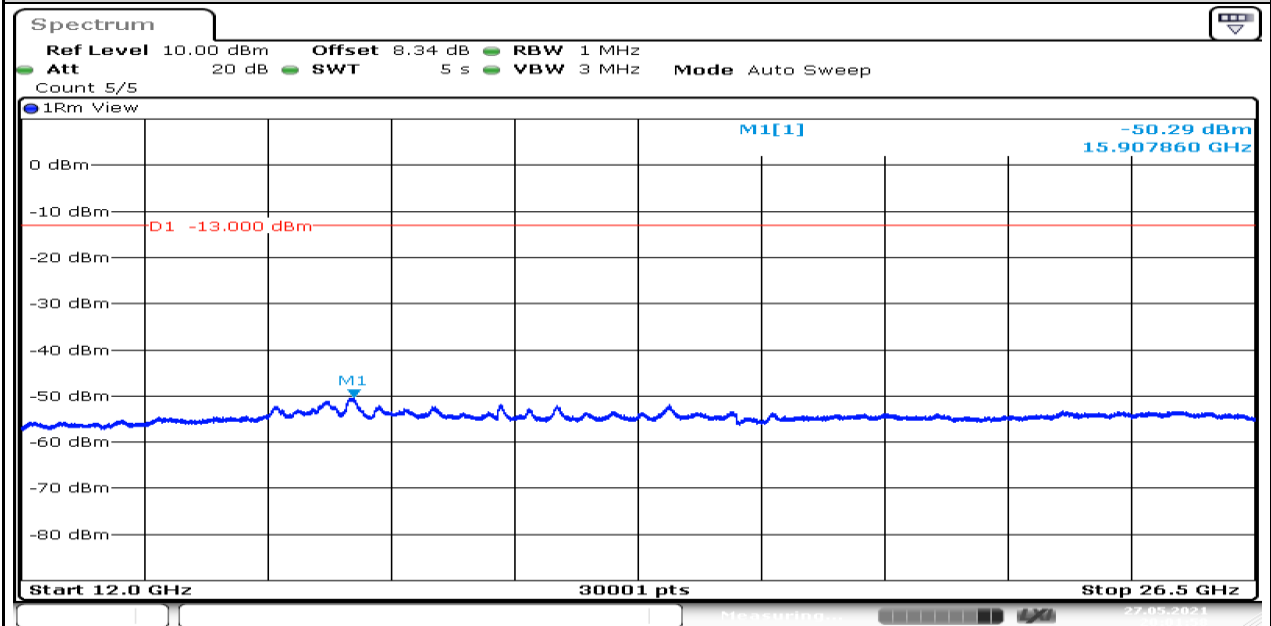
Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-1000-5000-1000~5000MHz@-41.21dBm--13-PASS



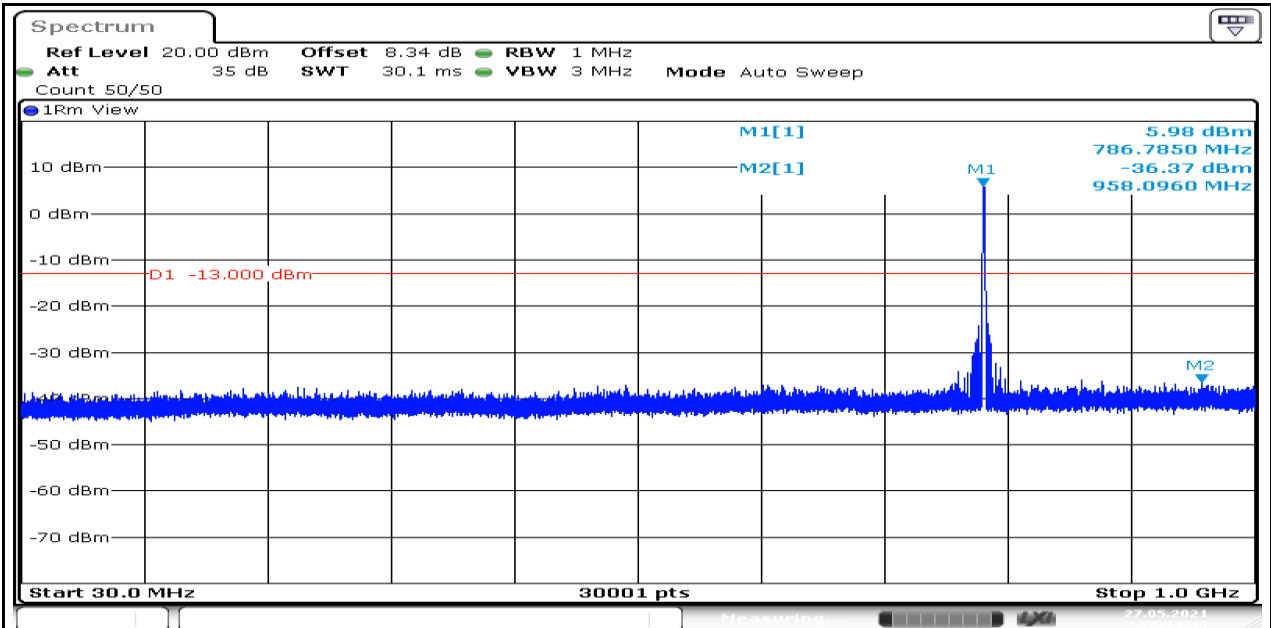
Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.33dBm--13-PASS



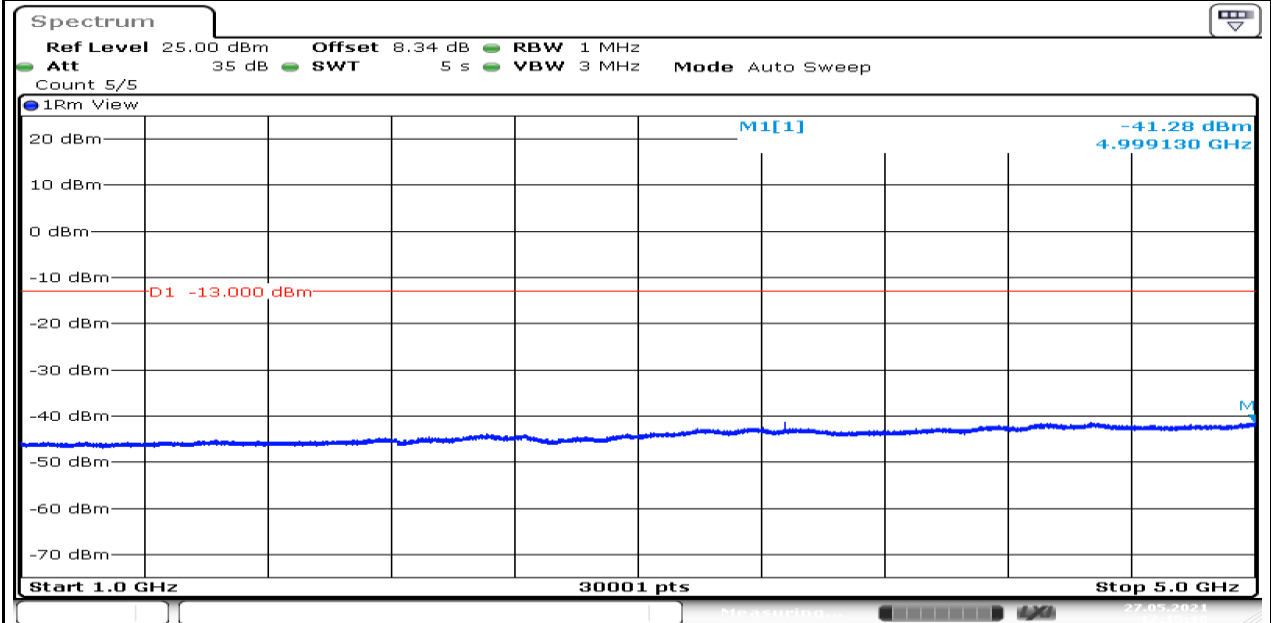
Band13-Stand-Alone-NaN-QPSK-23230-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.29dBm--13-PASS



Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-30-1000-30~1000MHz@-36.37dBm--13-PASS

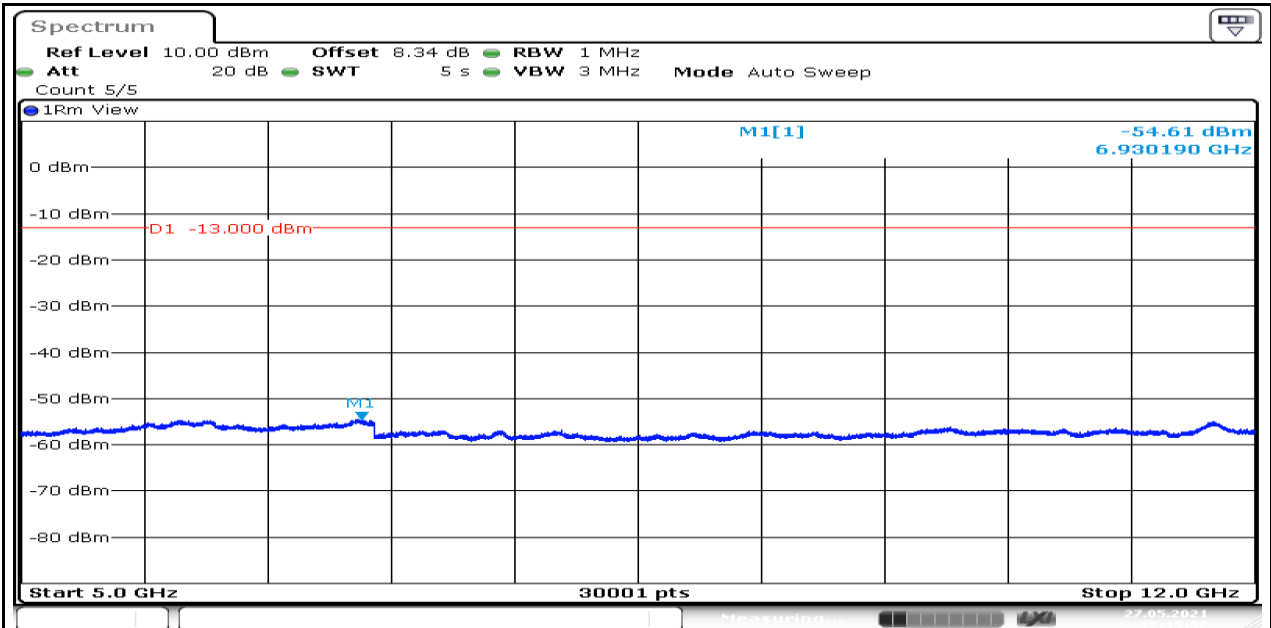


Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-1000-5000-1000~5000MHz@-41.28dBm--13-PASS

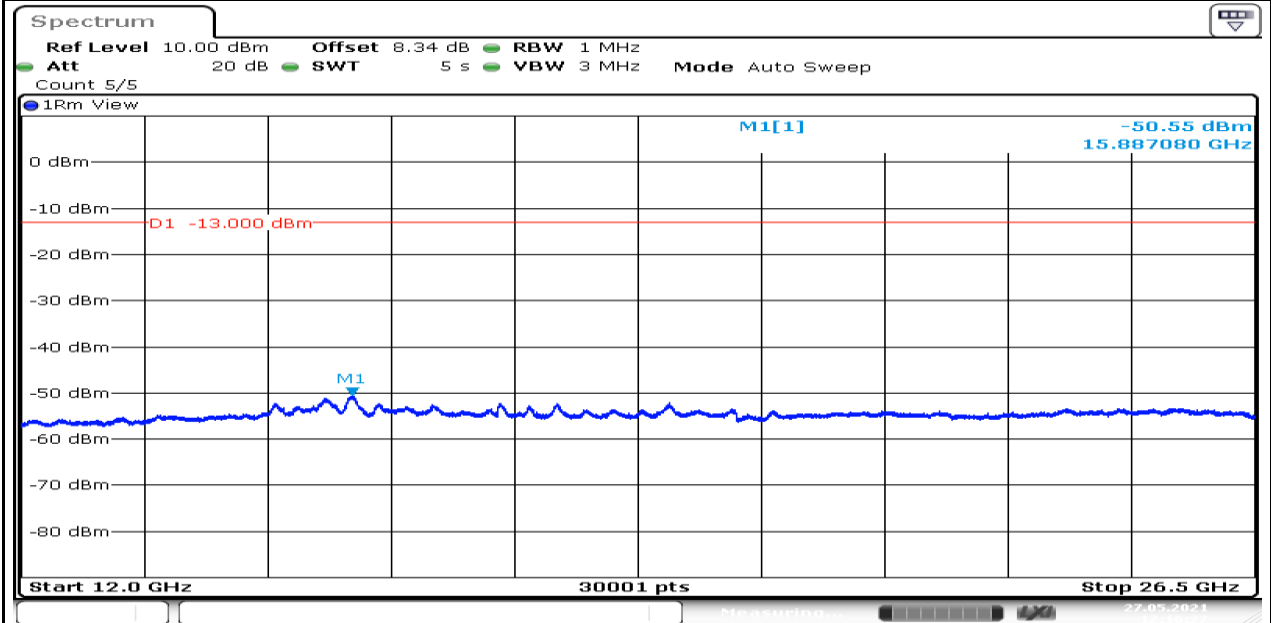


Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-5000-12000-5000~12000MHz@-54.61dBm--13-PASS

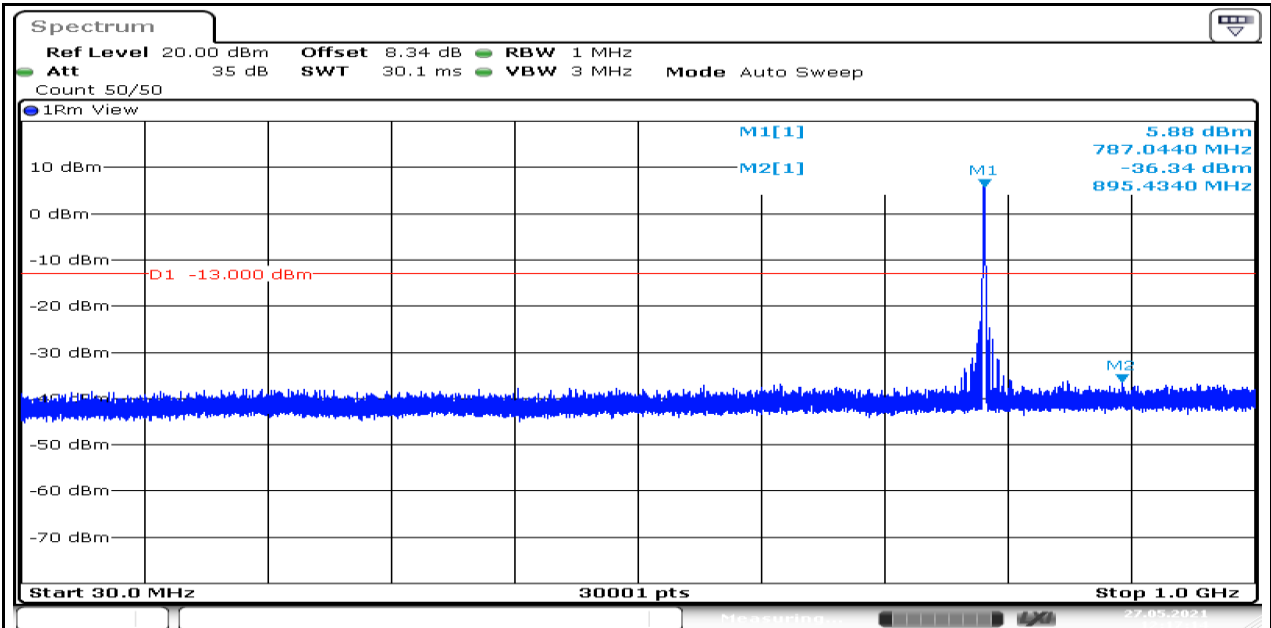




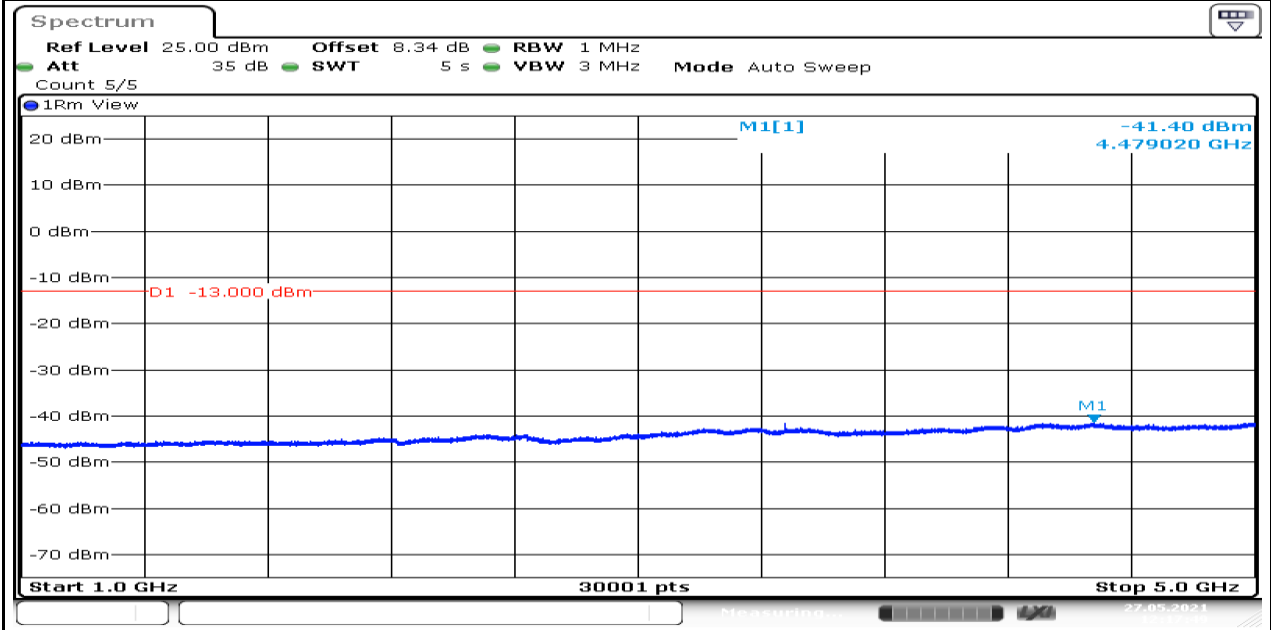
Band13-Stand-Alone-NaN-QPSK-23279-1@0-3.75kHz-12000-26500-12000~26500MHz@-50.55dBm--13-PASS



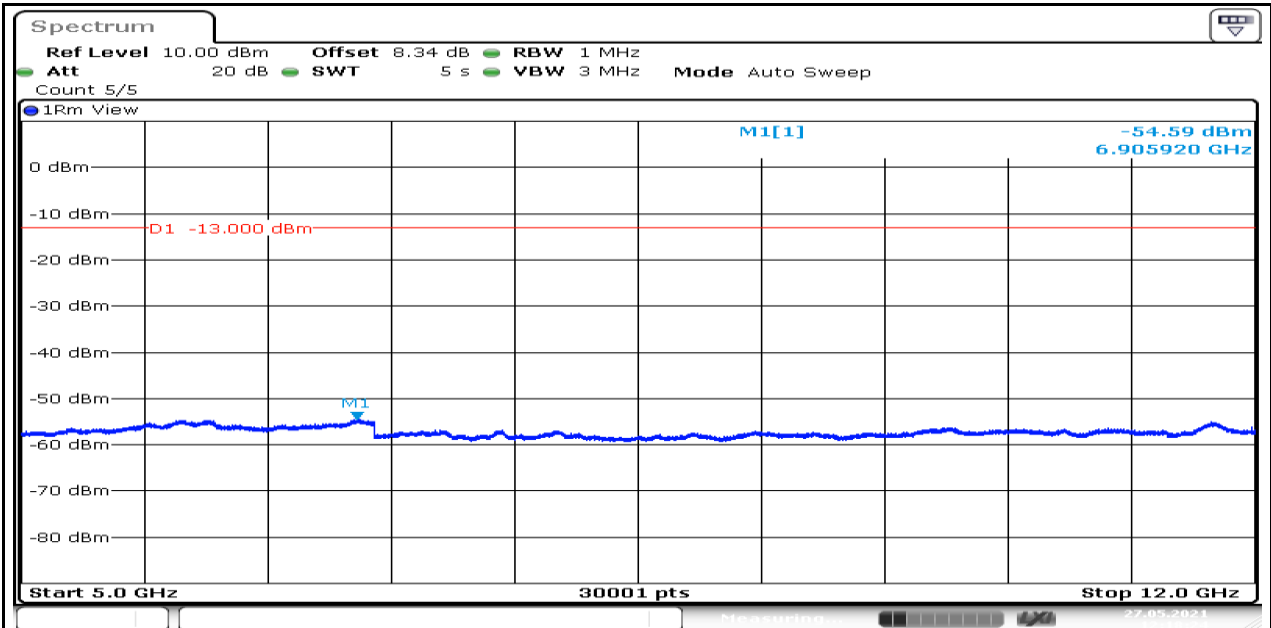
Band13-Stand-Alone-NaN-QPSK-23279-1@47-3.75kHz-30-1000-30~1000MHz@-36.34dBm--13-PASS



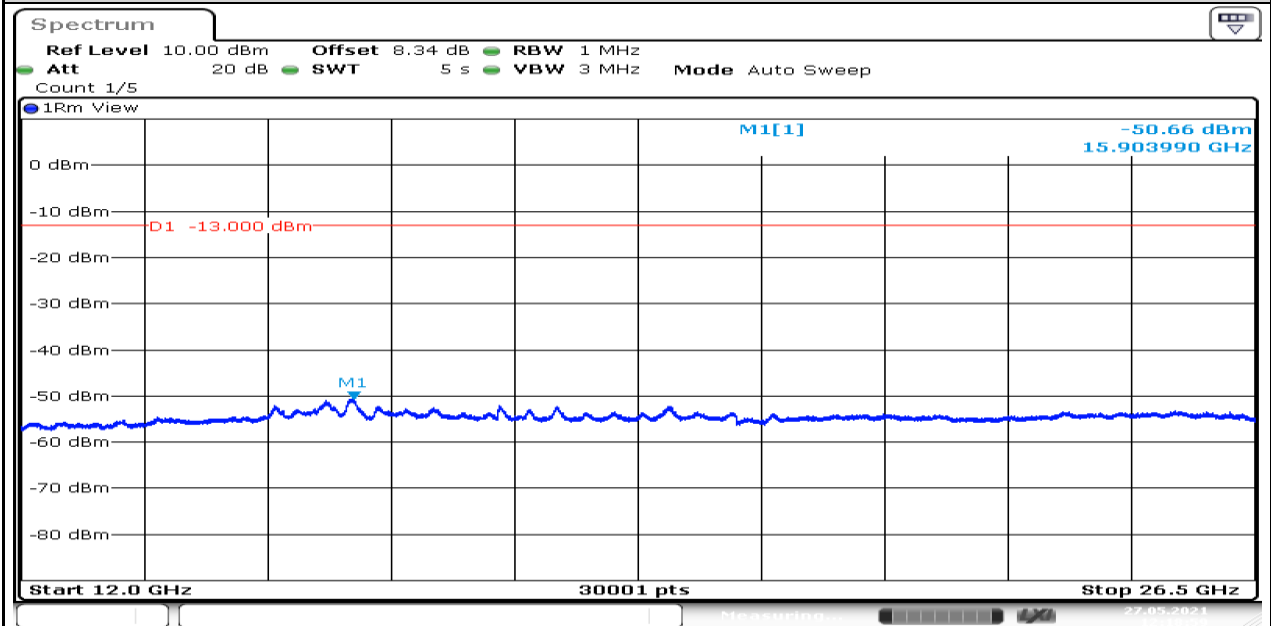
Band13-Stand-Alone-NaN-QPSK-23279-1@47-3.75kHz-1000-5000-1000~5000MHz@-41.4dBm--13-PASS



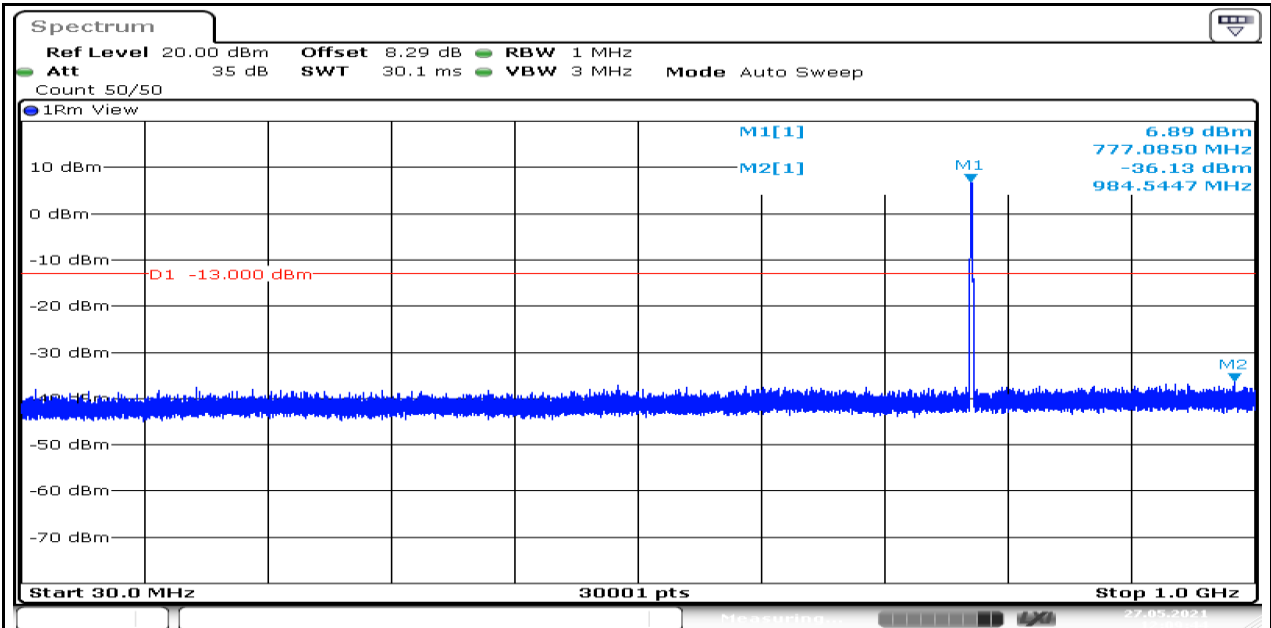
Band13-Stand-Alone-NaN-QPSK-23279-1@47-3.75kHz-5000-12000-5000~12000MHz@-54.59dBm--13-PASS



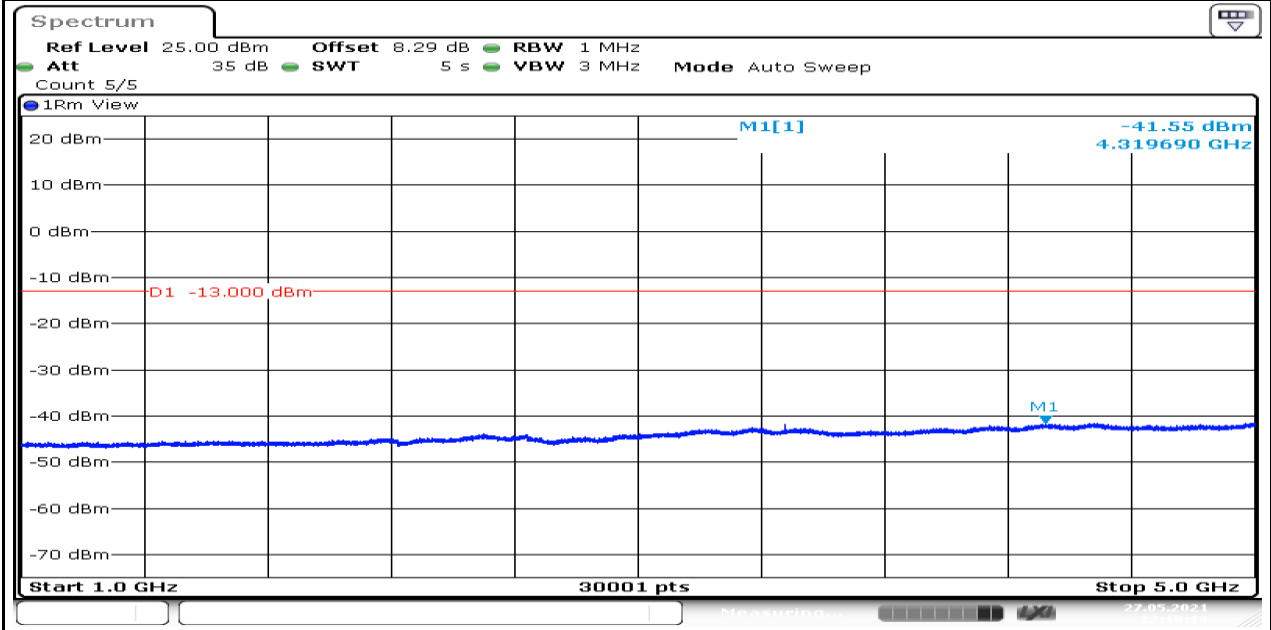
Band13-Stand-Alone-NaN-QPSK-23279-1@47-3.75kHz-12000-26500-12000~26500MHz@-50.66dBm--13-PASS



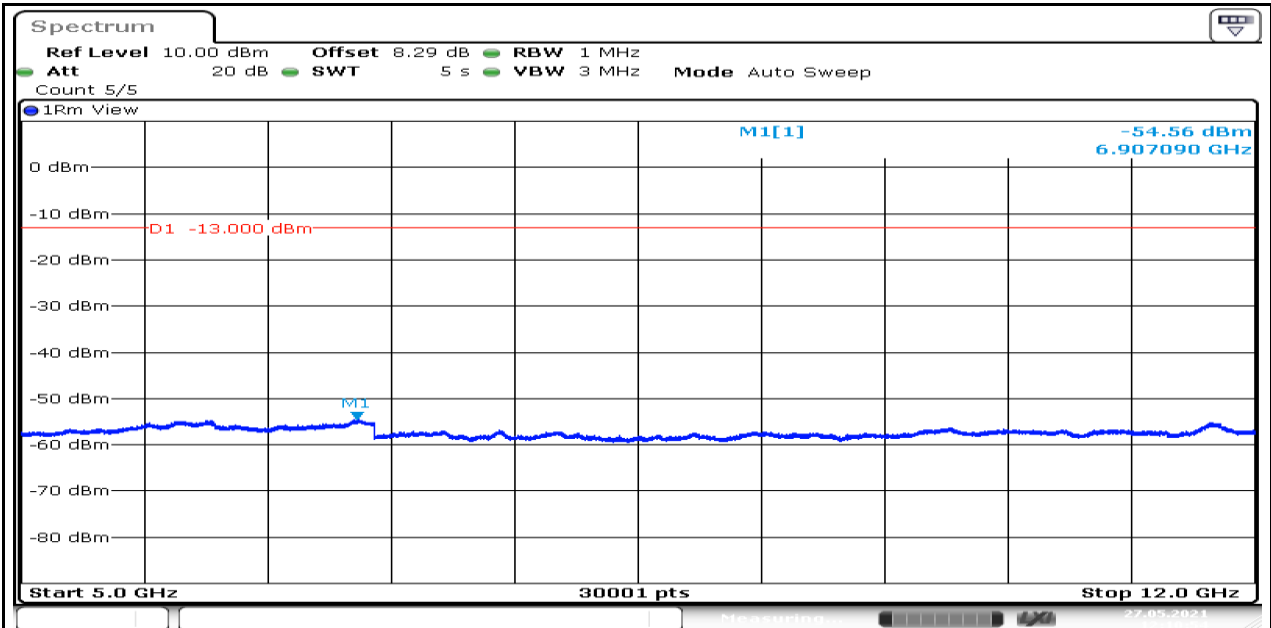
Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-30-1000-30~1000MHz@-36.13dBm--13-PASS



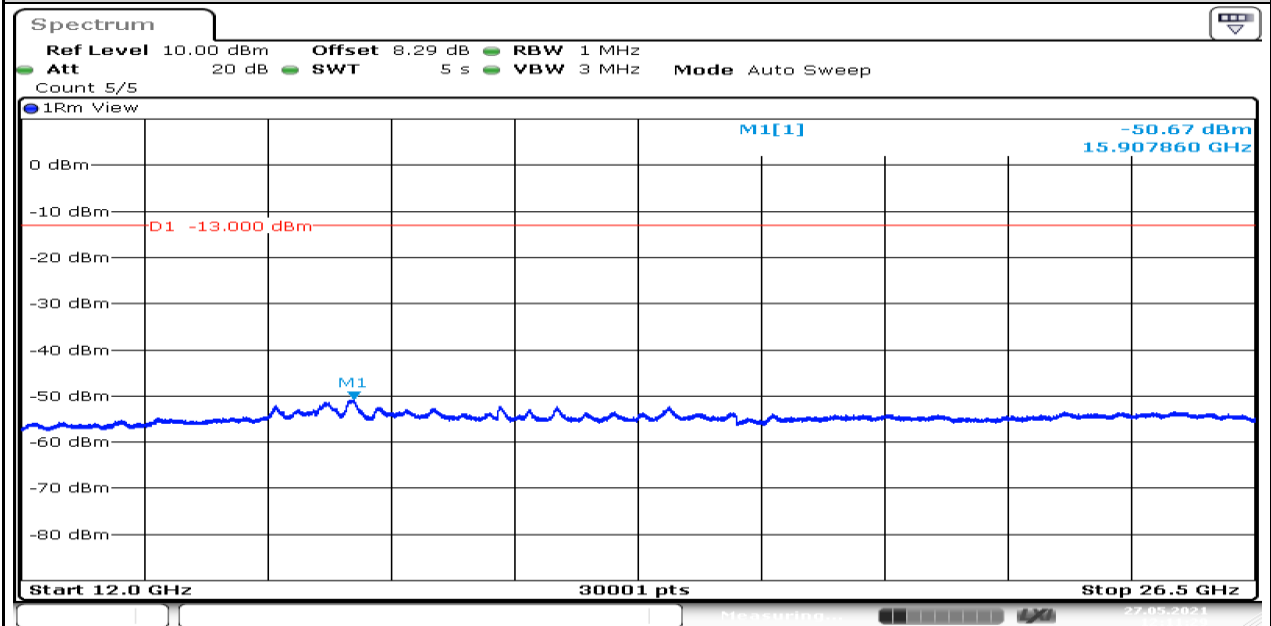
Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-1000-5000-1000~5000MHz@-41.55dBm--13-PASS



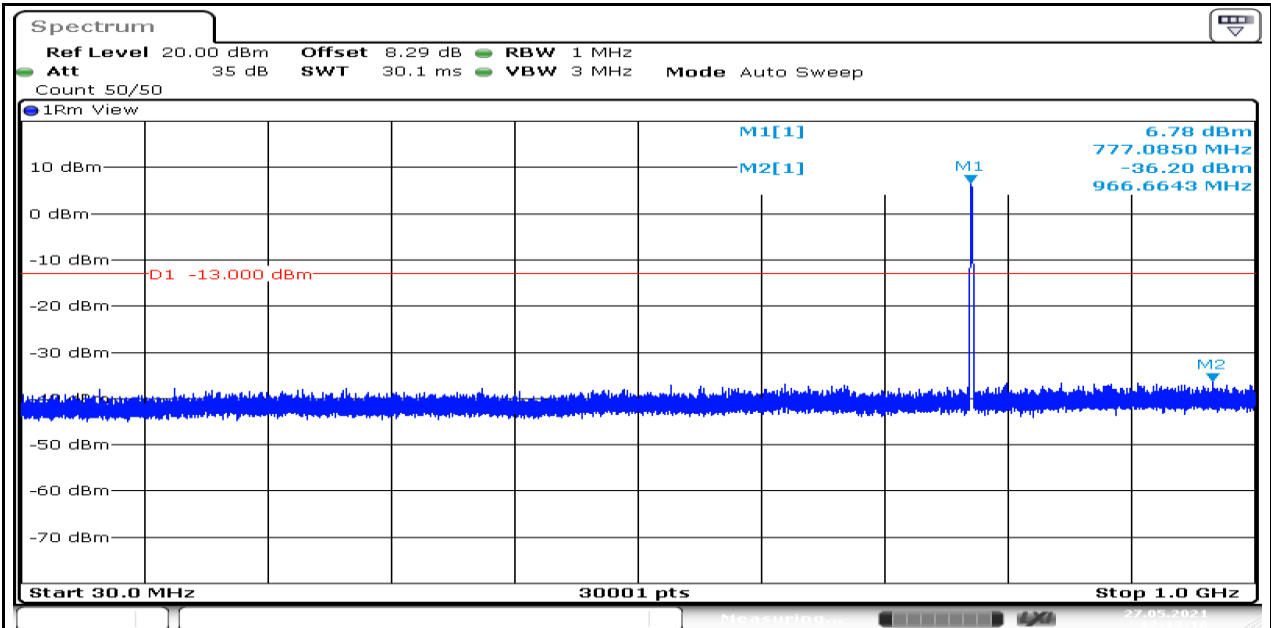
Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-5000-12000-5000~12000MHz@-54.56dBm--13-PASS



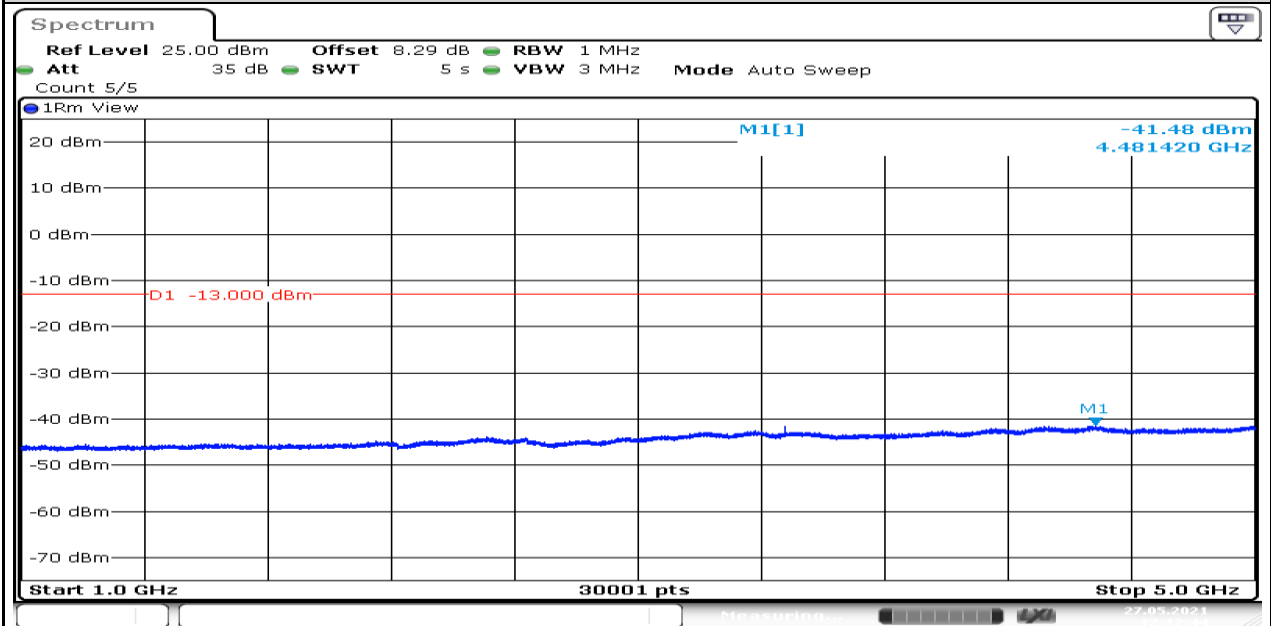
Band13-Stand-Alone-NaN-BPSK-23181-1@0-15kHz-12000-26500-12000~26500MHz@-50.67dBm--13-PASS



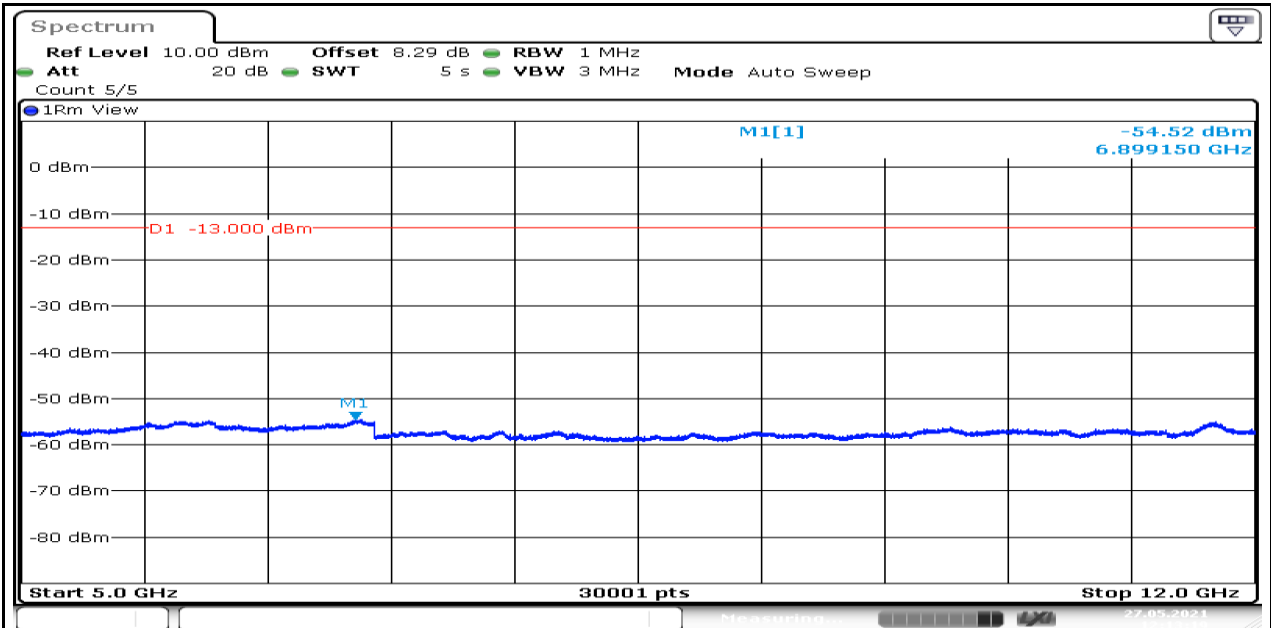
Band13-Stand-Alone-NaN-BPSK-23181-1@11-15kHz-30-1000-30~1000MHz@-36.2dBm--13-PASS



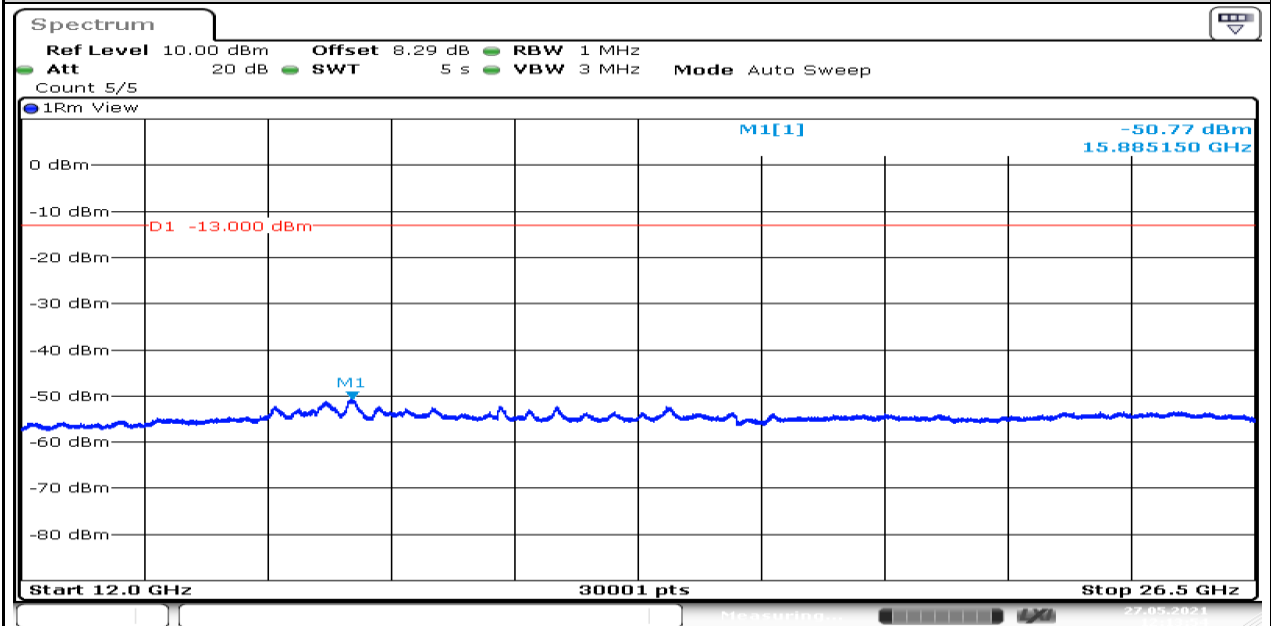
Band13-Stand-Alone-NaN-BPSK-23181-1@11-15kHz-1000-5000-1000~5000MHz@-41.48dBm--13-PASS



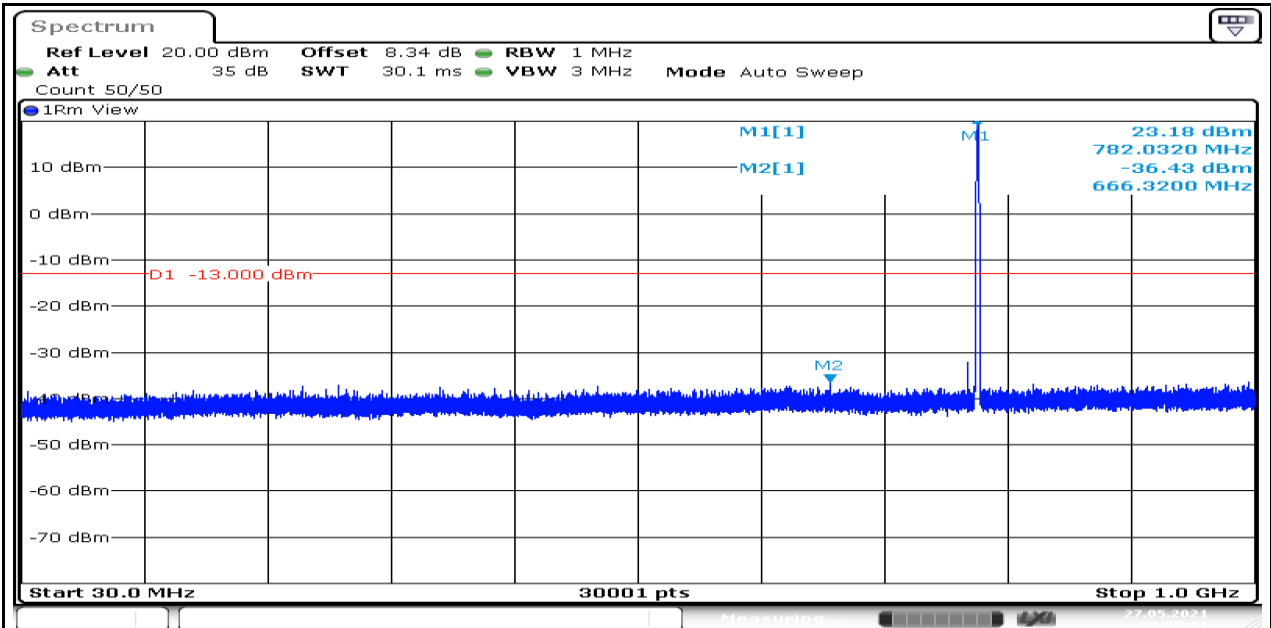
Band13-Stand-Alone-NaN-BPSK-23181-1@11-15kHz-5000-12000-5000~12000MHz@-54.52dBm--13-PASS



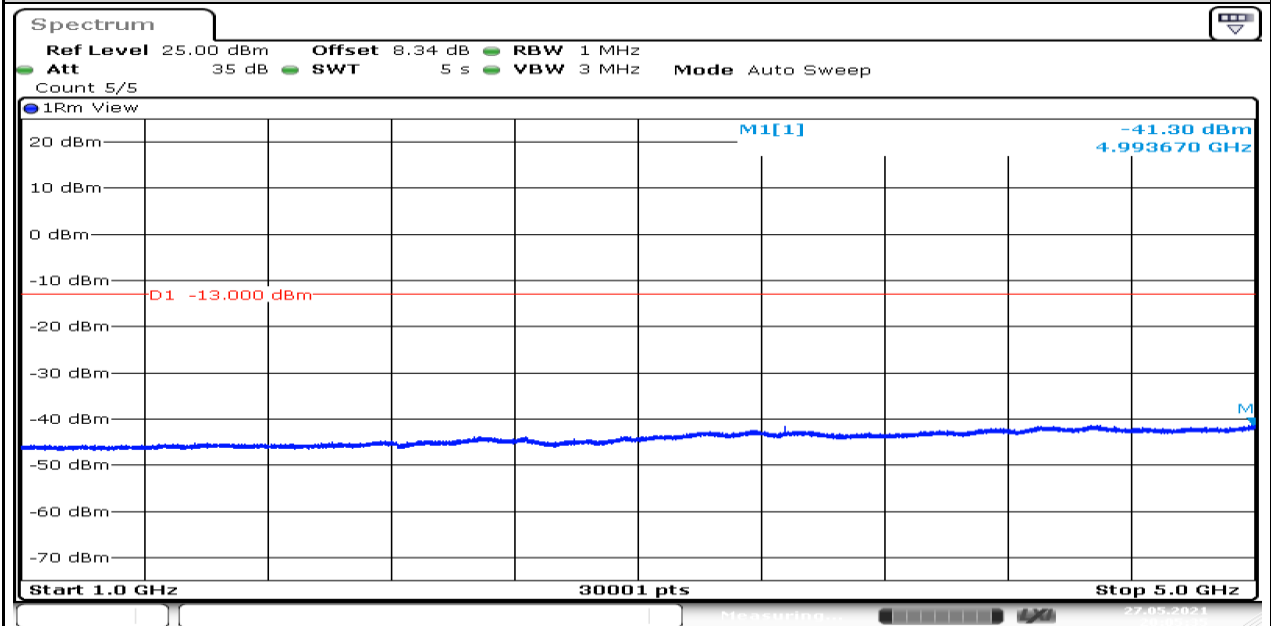
Band13-Stand-Alone-NaN-BPSK-23181-1@11-15kHz-12000-26500-12000~26500MHz@-50.77dBm--13-PASS



Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-30-1000-30~1000MHz@-36.43dBm--13-PASS

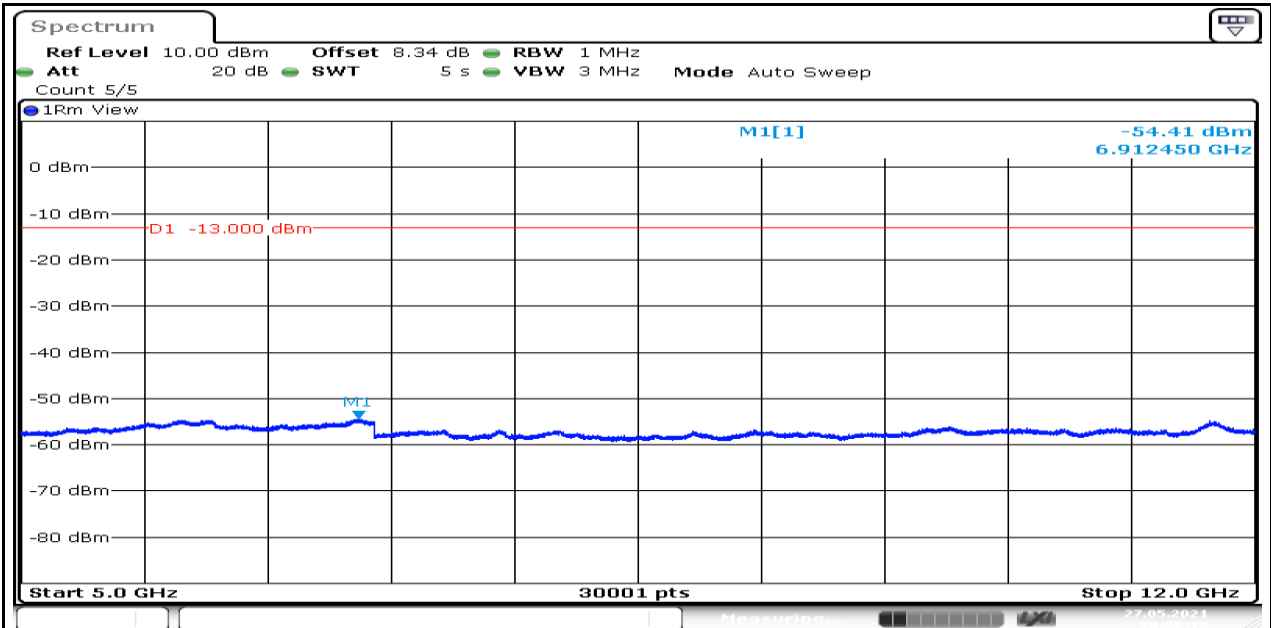


Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-1000-5000-1000~5000MHz@-41.3dBm--13-PASS

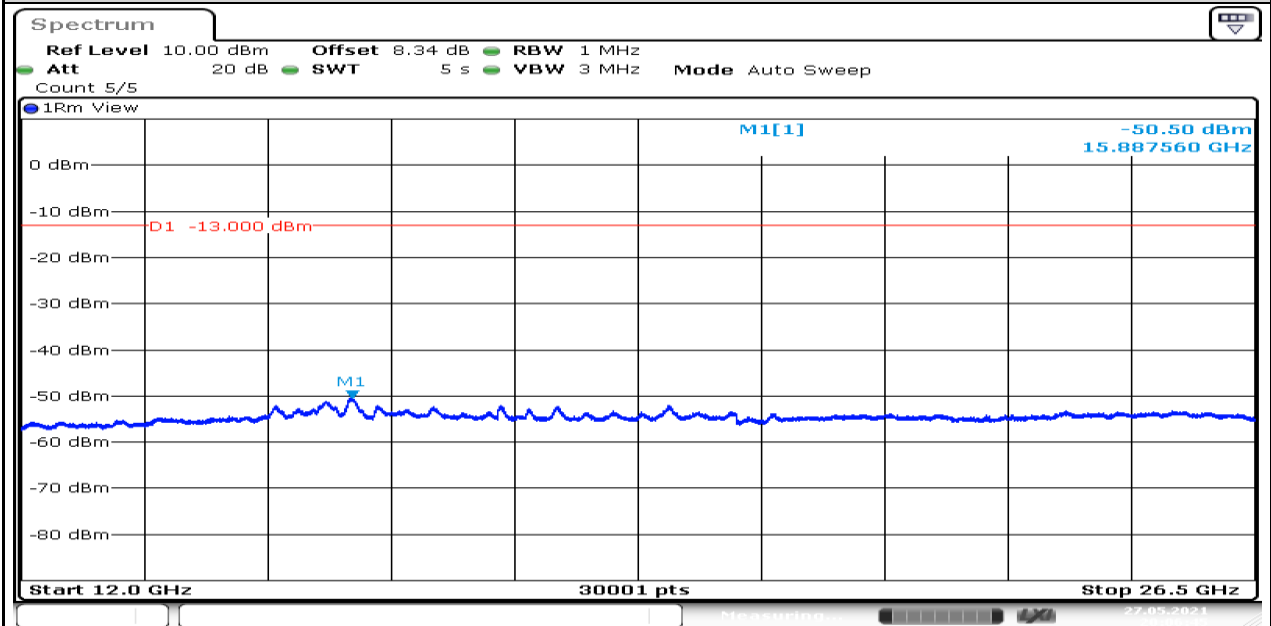


Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-5000-12000-5000~12000MHz@-54.41dBm--13-PASS

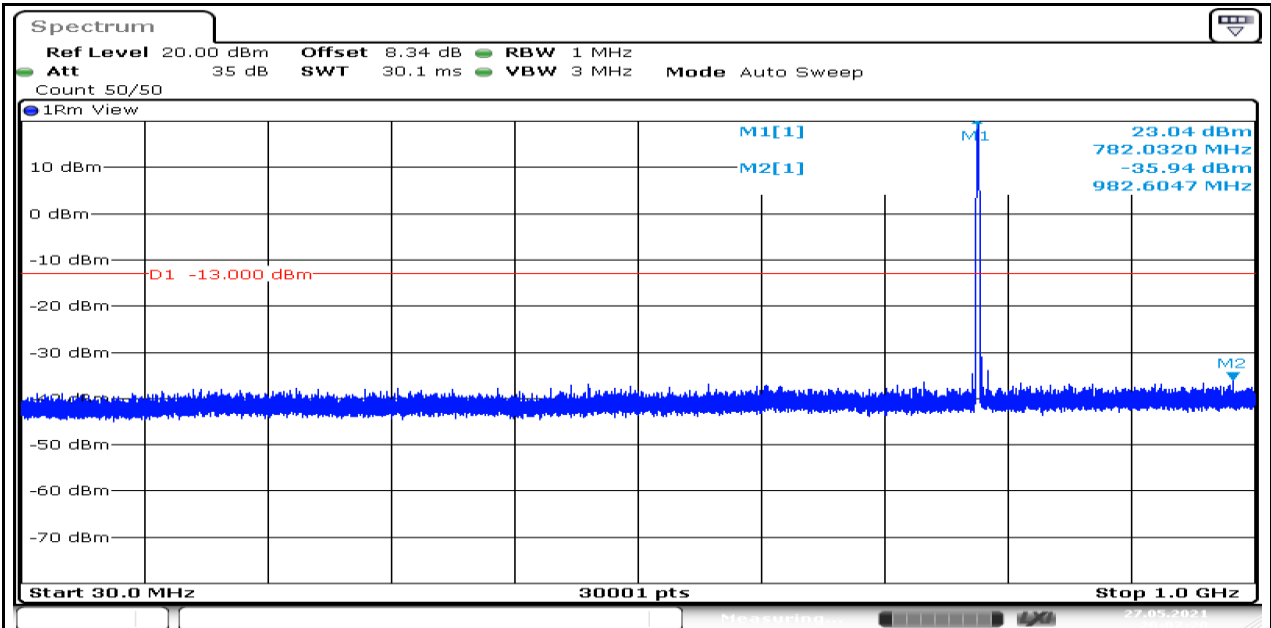




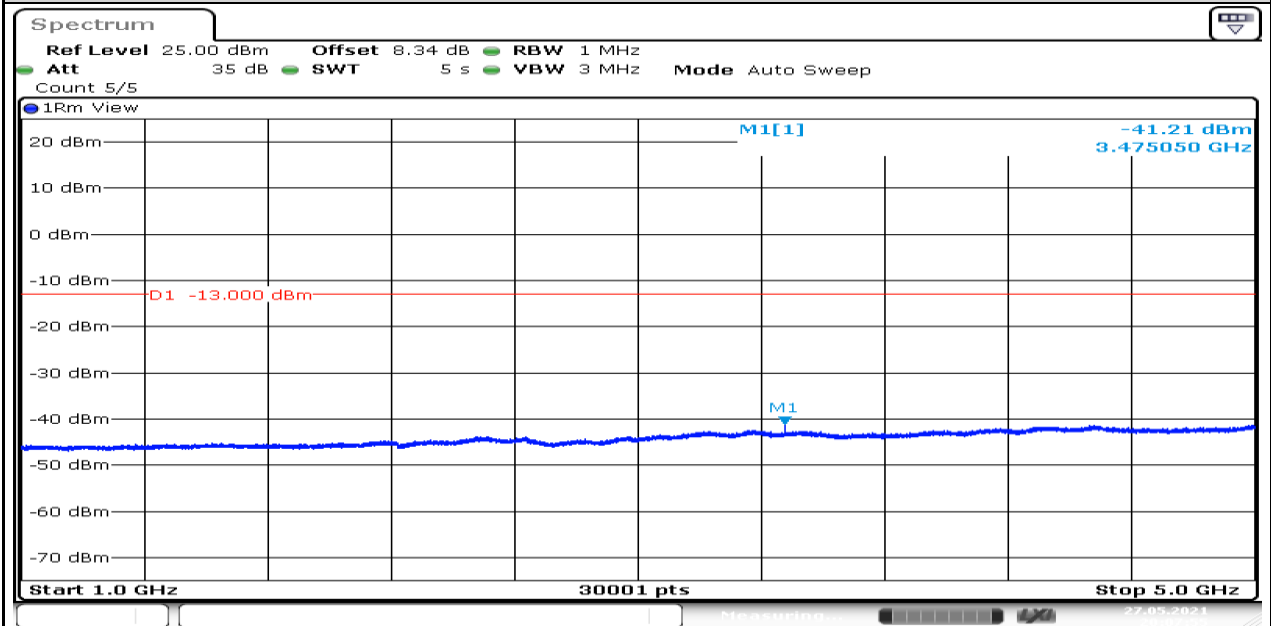
Band13-Stand-Alone-NaN-BPSK-23230-1@0-15kHz-12000-26500-12000~26500MHz@-50.5dBm--13-PASS



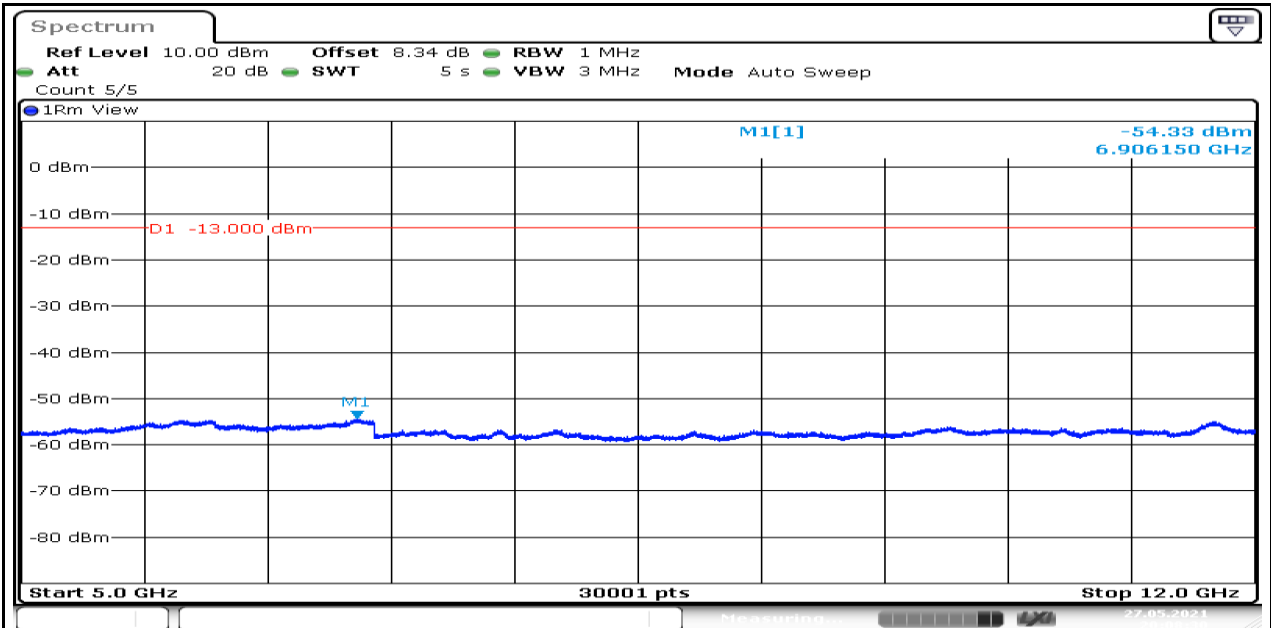
Band13-Stand-Alone-NaN-BPSK-23230-1@11-15kHz-30-1000-30~1000MHz@-35.94dBm--13-PASS



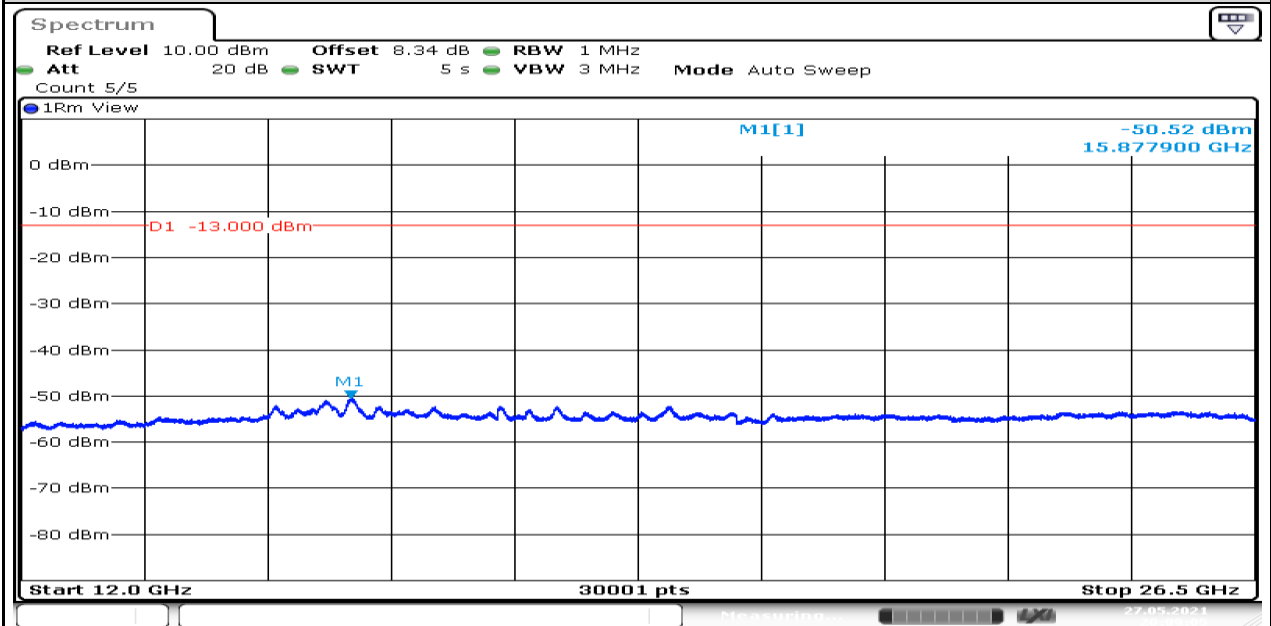
Band13-Stand-Alone-NaN-BPSK-23230-1@11-15kHz-1000-5000-1000~5000MHz@-41.21dBm--13-PASS



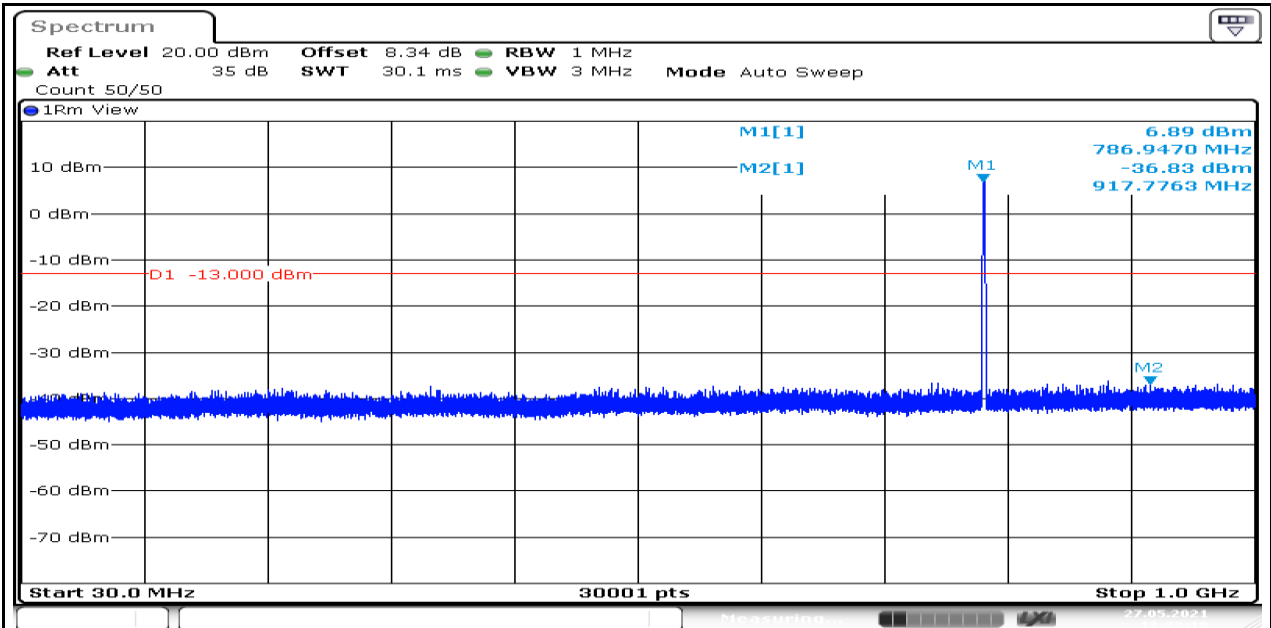
Band13-Stand-Alone-NaN-BPSK-23230-1@11-15kHz-5000-12000-5000~12000MHz@-54.33dBm--13-PASS



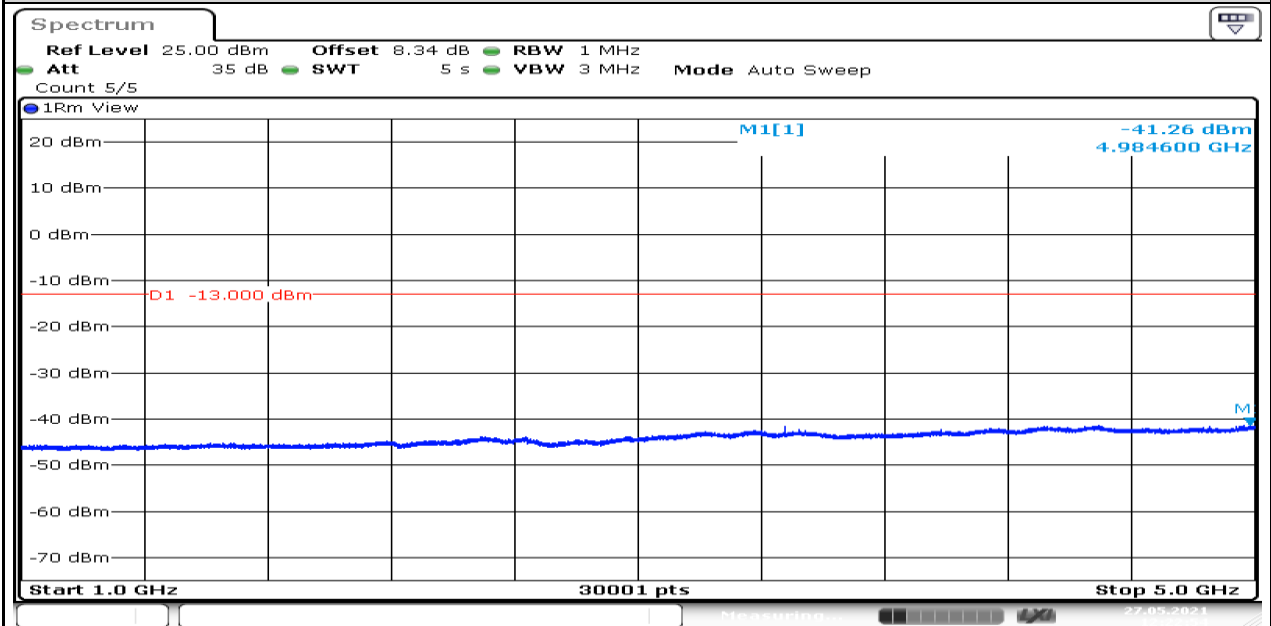
Band13-Stand-Alone-NaN-BPSK-23230-1@11-15kHz-12000-26500-12000~26500MHz@-50.52dBm--13-PASS



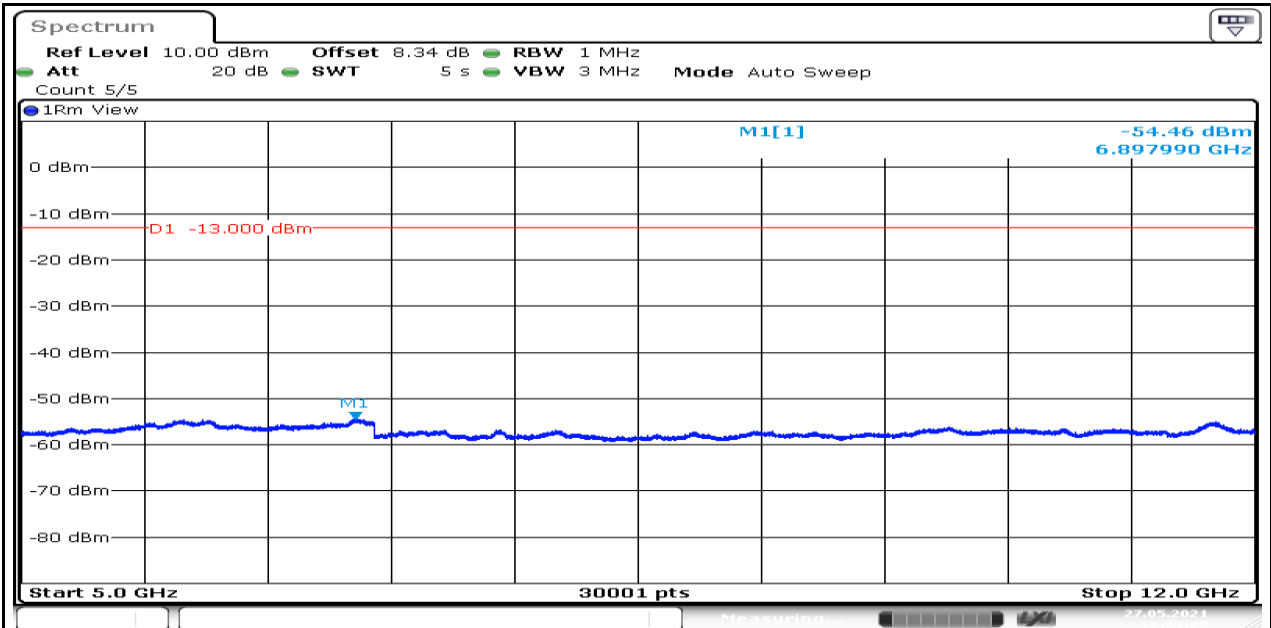
Band13-Stand-Alone-NaN-BPSK-23279-1@0-15kHz-30-1000-30~1000MHz@-36.83dBm--13-PASS



Band13-Stand-Alone-NaN-BPSK-23279-1@0-15kHz-1000-5000-1000~5000MHz@-41.26dBm--13-PASS

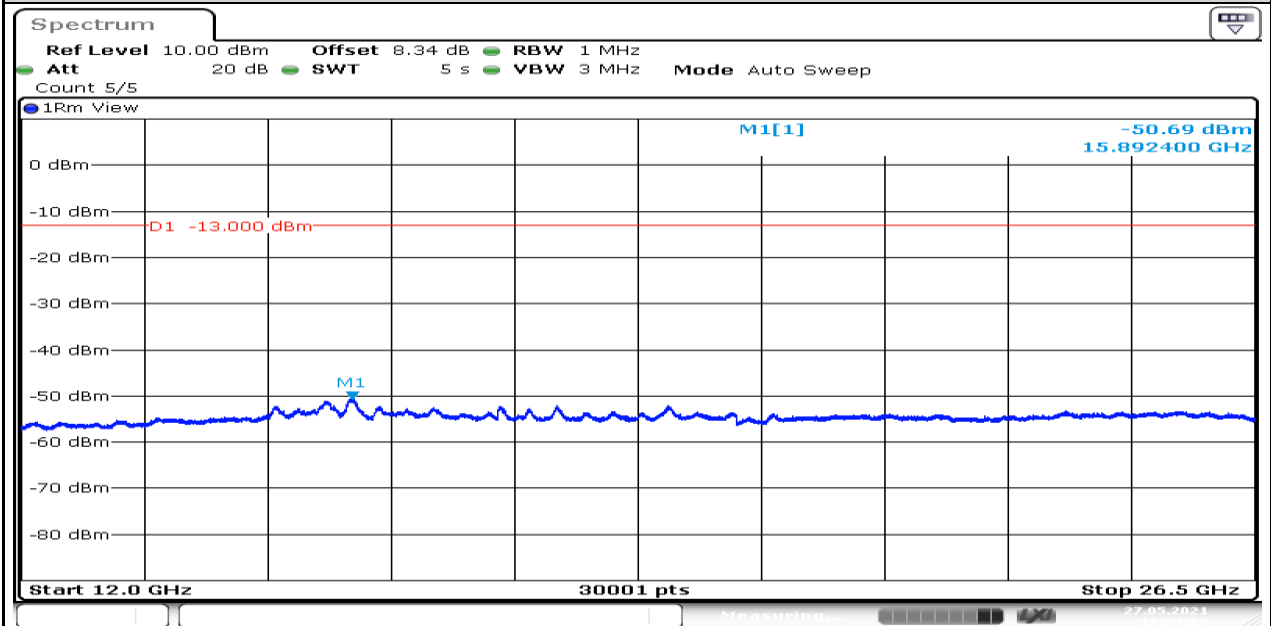


Band13-Stand-Alone-NaN-BPSK-23279-1@0-15kHz-5000-12000-5000~12000MHz@-54.46dBm--13-PASS



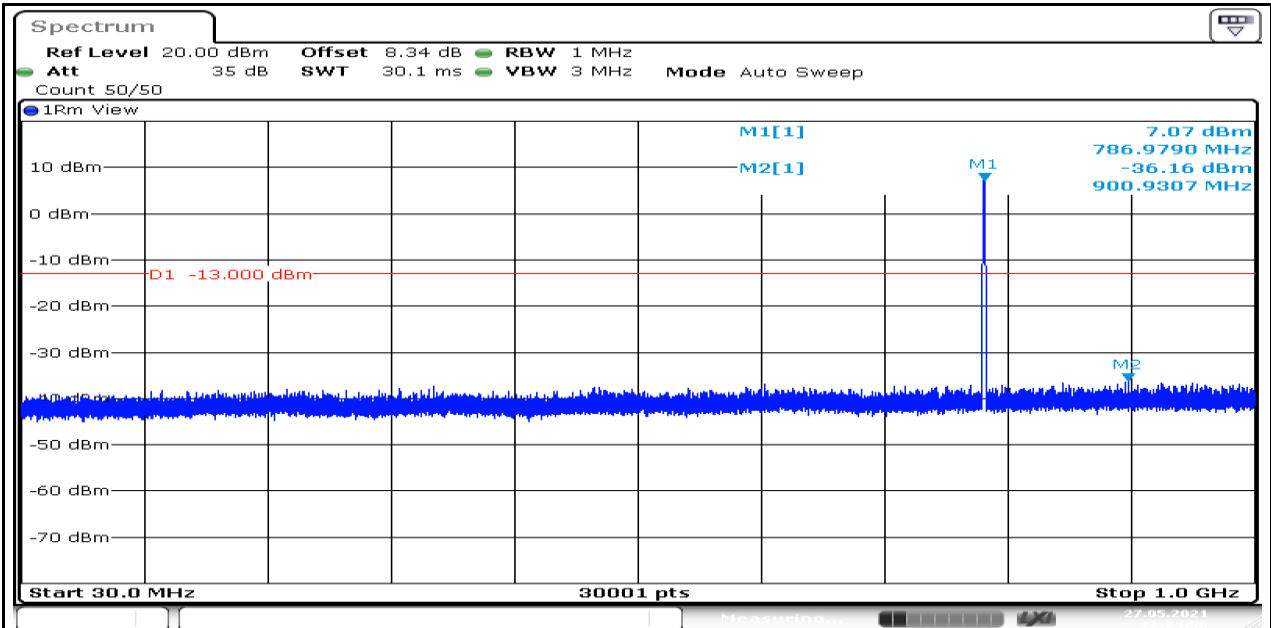
Date: 27.MAY.2021 12:23:29

Band13-Stand-Alone-NaN-BPSK-23279-1@0-15kHz-12000-26500-12000~26500MHz@-50.69dBm--13-PASS

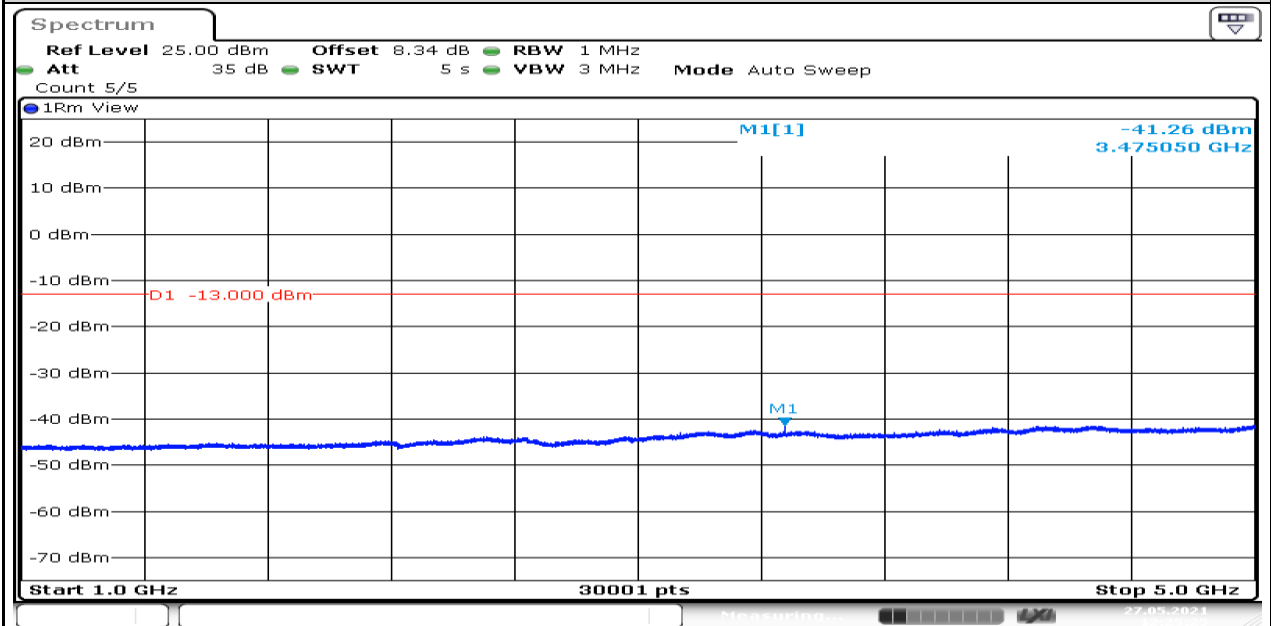


Date: 27.MAY.2021 12:24:04

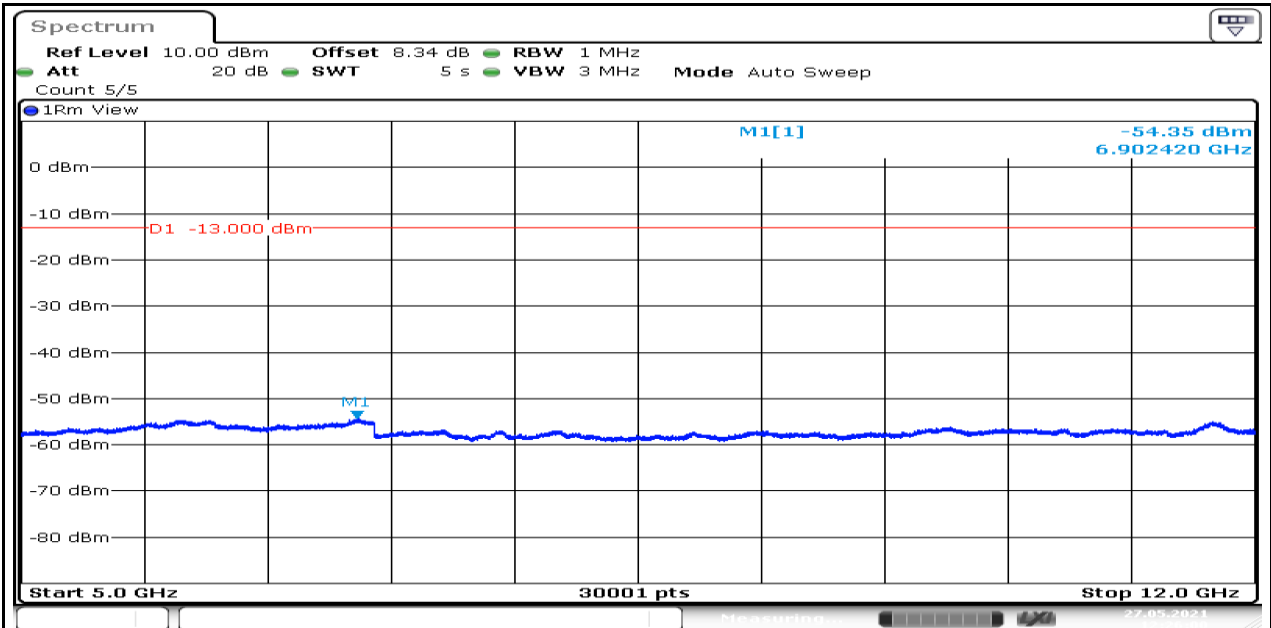
Band13-Stand-Alone-NaN-BPSK-23279-1@11-15kHz-30-1000-30~1000MHz@-36.16dBm--13-PASS



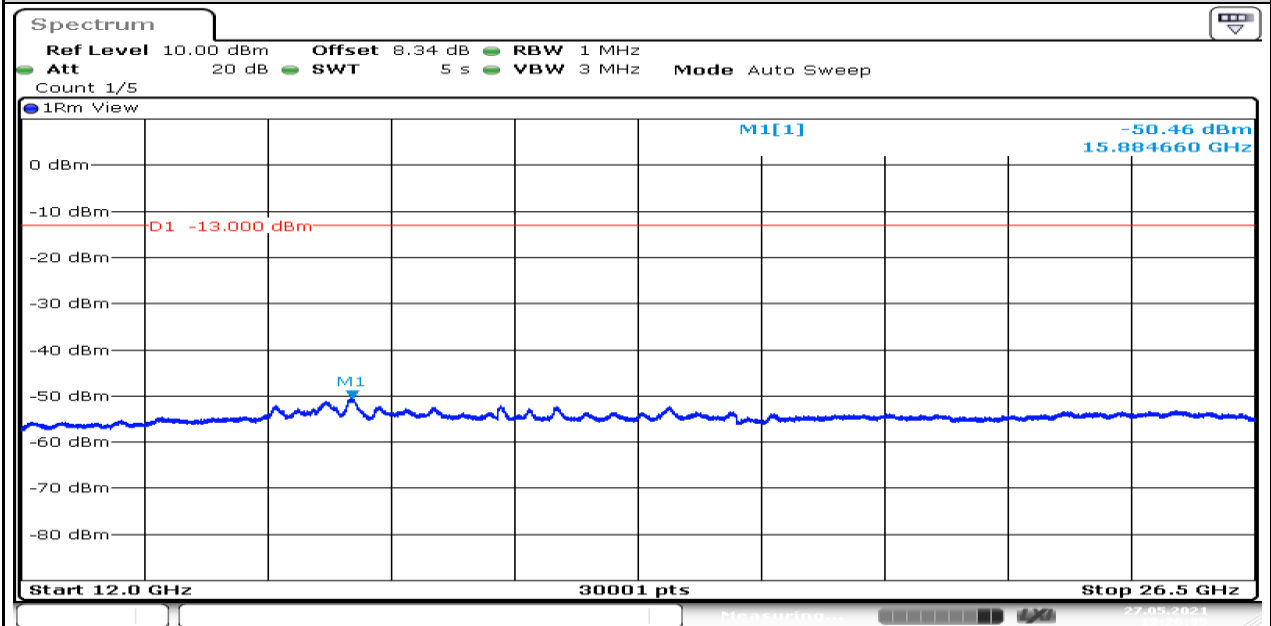
Band13-Stand-Alone-NaN-BPSK-23279-1@11-15kHz-1000-5000-1000~5000MHz@-41.26dBm--13-PASS



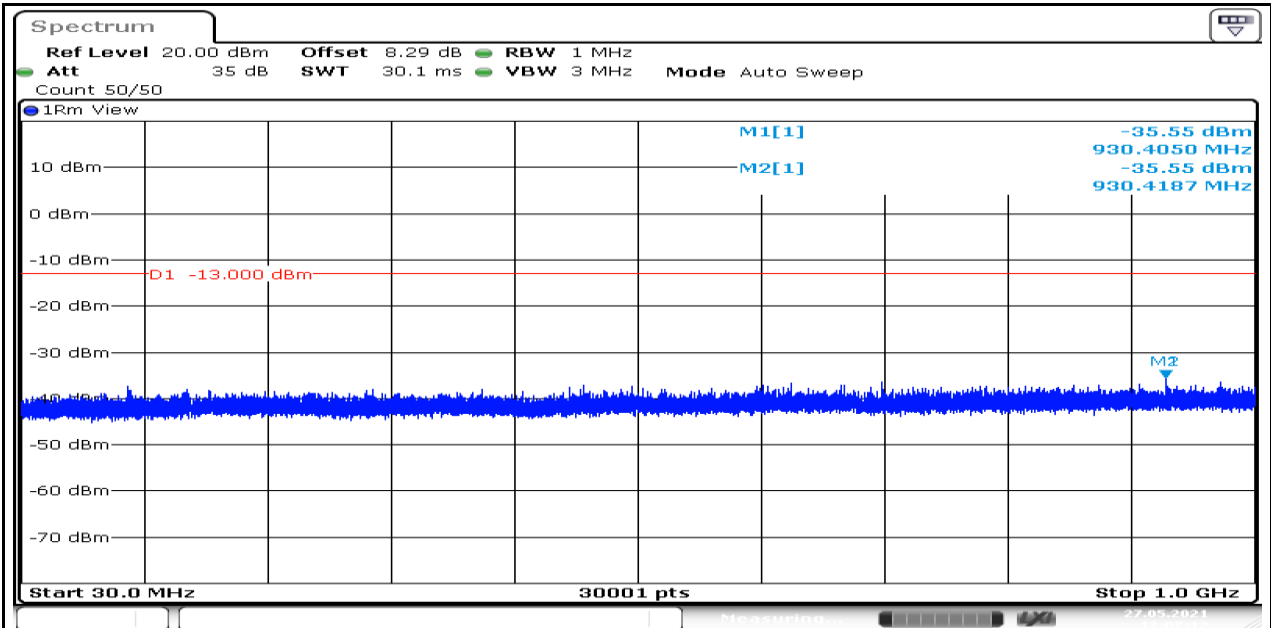
Band13-Stand-Alone-NaN-BPSK-23279-1@11-15kHz-5000-12000-5000~12000MHz@-54.35dBm--13-PASS



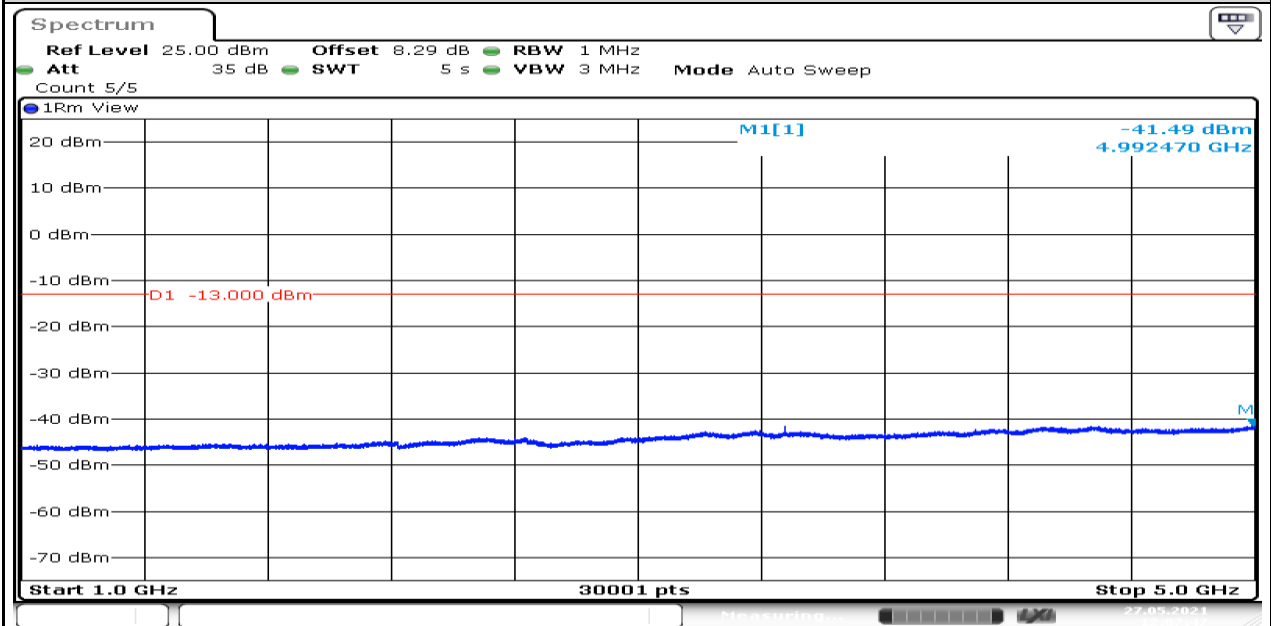
Band13-Stand-Alone-NaN-BPSK-23279-1@11-15kHz-12000-26500-12000~26500MHz@-50.46dBm--13-PASS



Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-30-1000-30~1000MHz@-35.55dBm--13-PASS

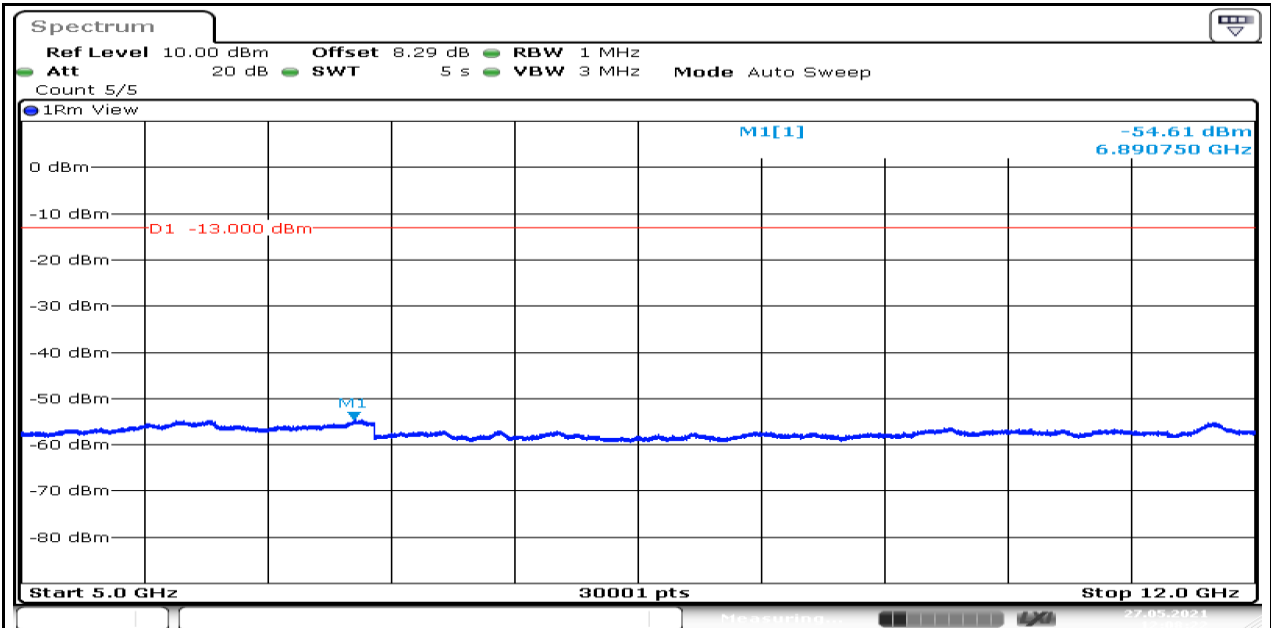


Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-1000-5000-1000~5000MHz@-41.49dBm--13-PASS

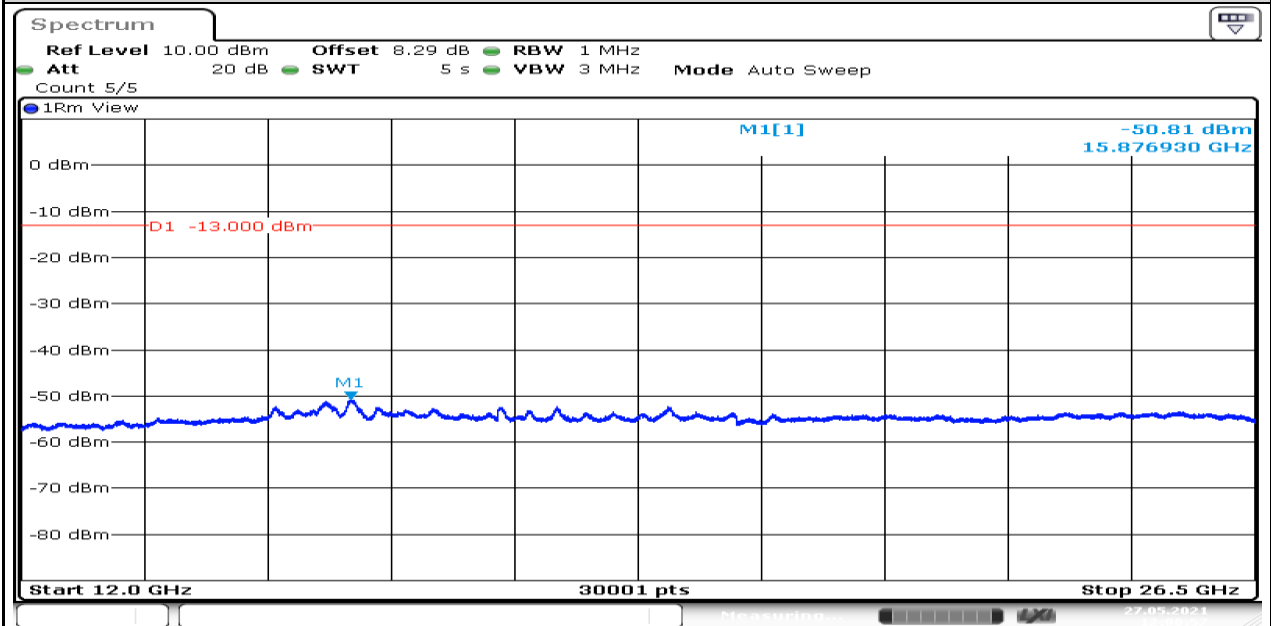


Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-5000-12000-5000~12000MHz@-54.61dBm--13-PASS

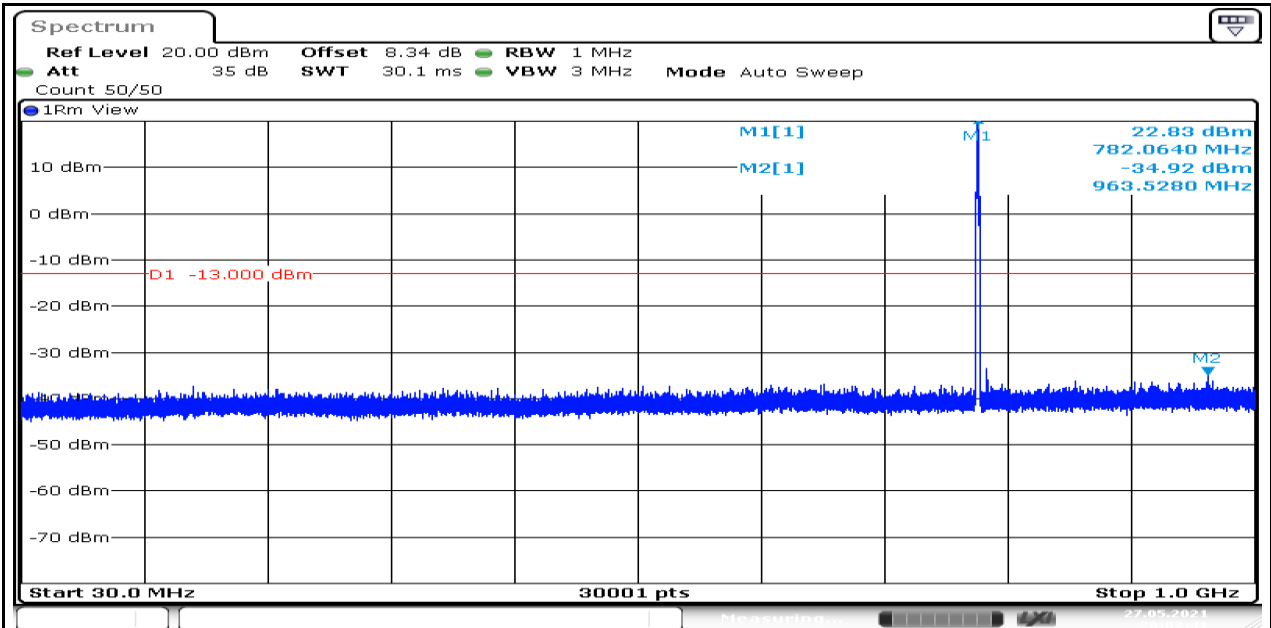




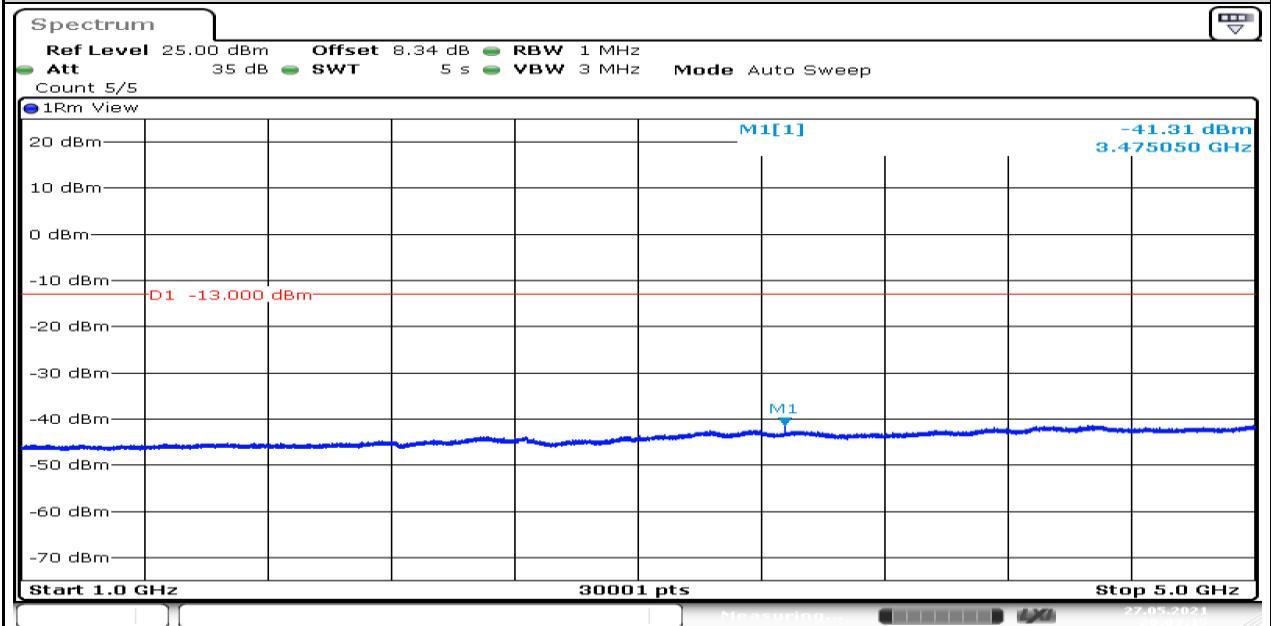
Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-12000-26500-12000~26500MHz@-50.81dBm--13-PASS



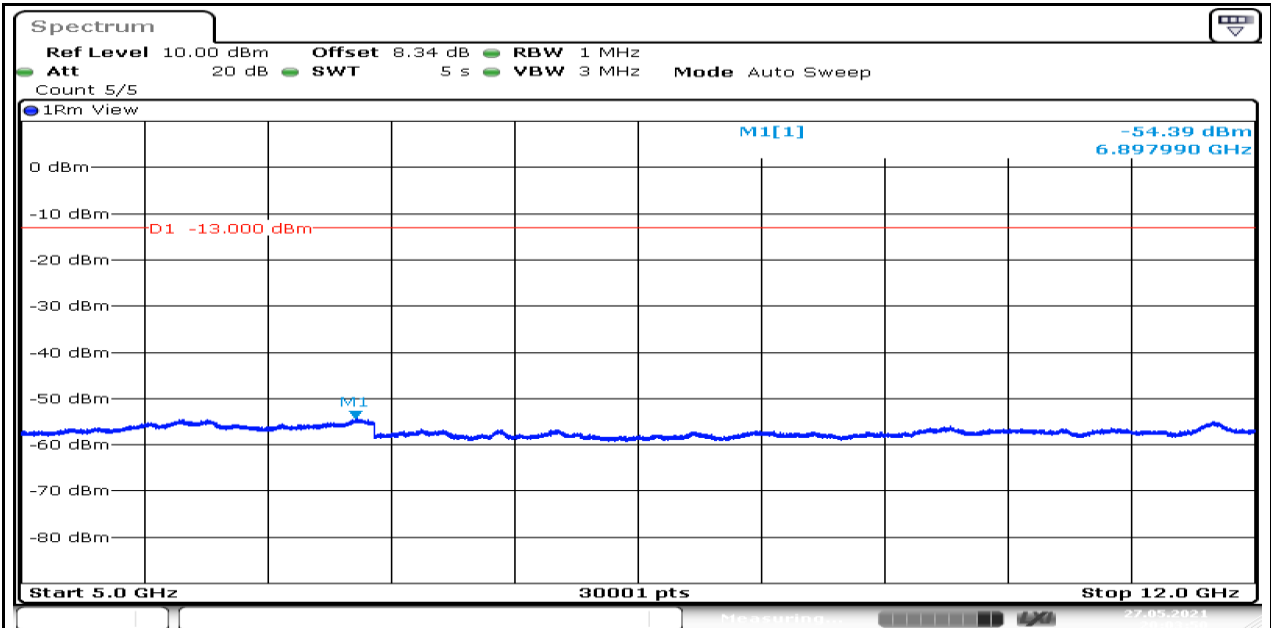
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-30-1000-30~1000MHz@-34.92dBm--13-PASS



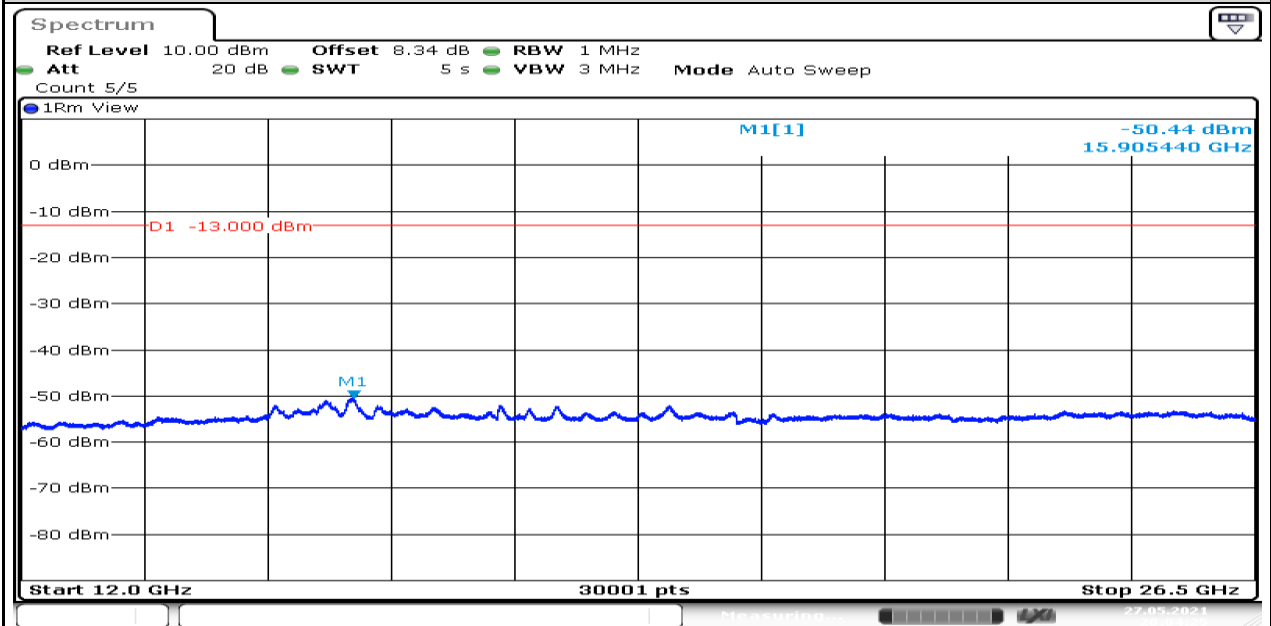
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-1000-5000-1000~5000MHz@-41.31dBm--13-PASS



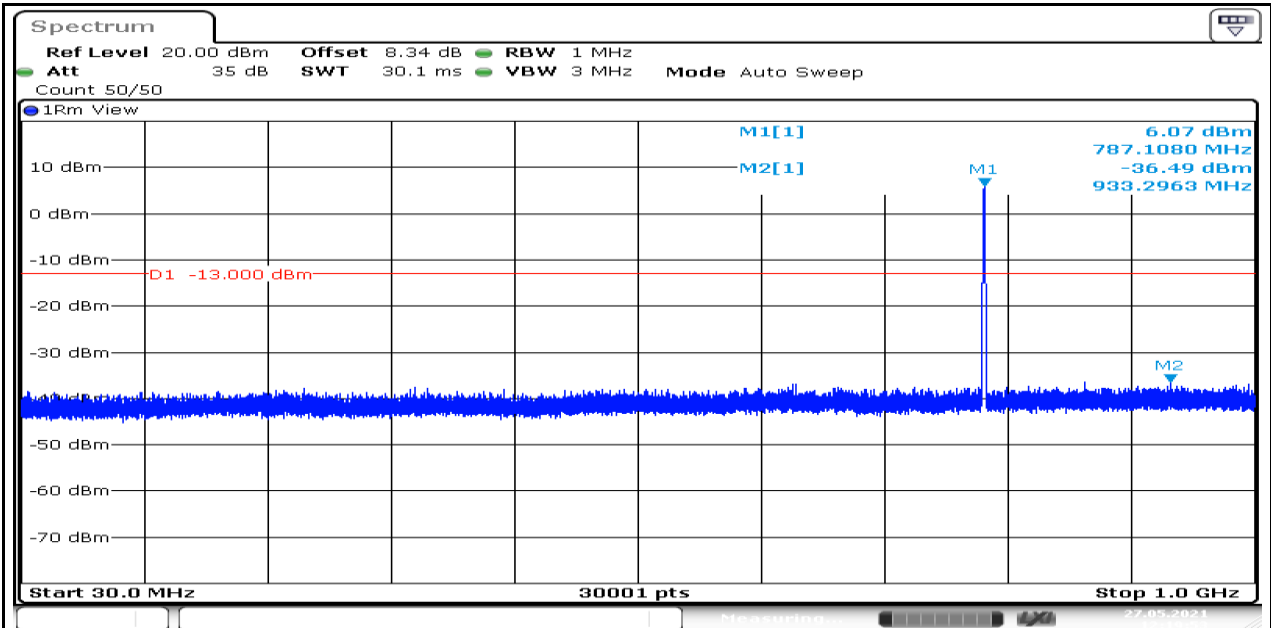
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-5000-12000-5000~12000MHz@-54.39dBm--13-PASS



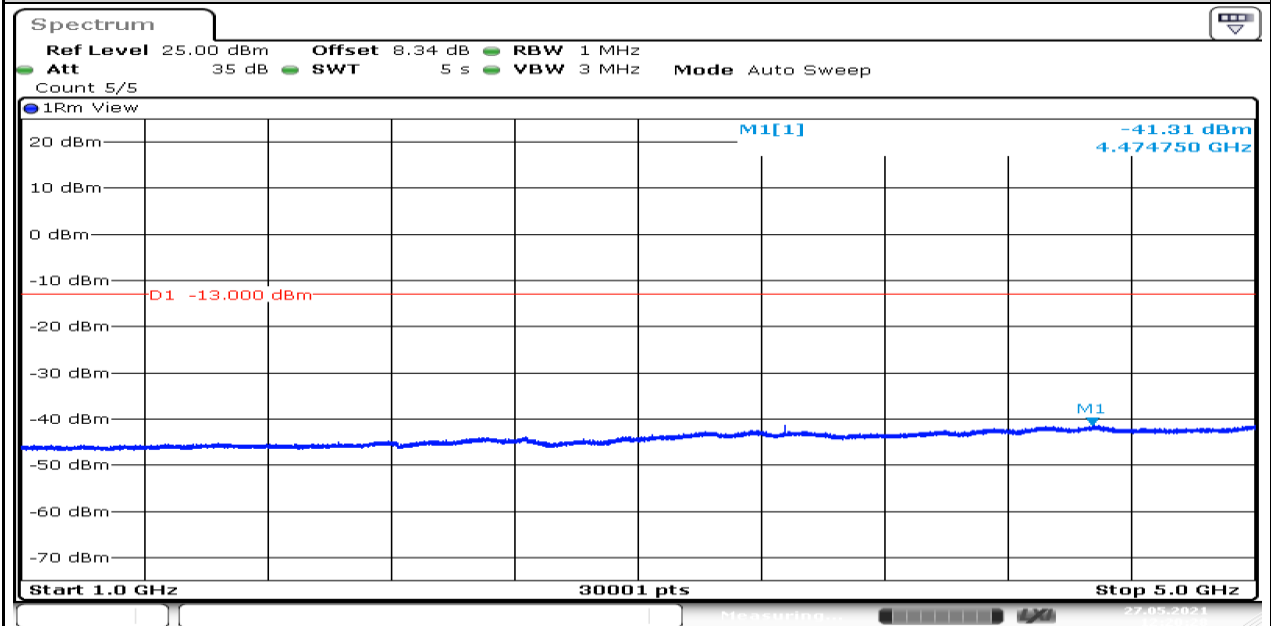
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-12000-26500-12000~26500MHz@-50.44dBm--13-PASS



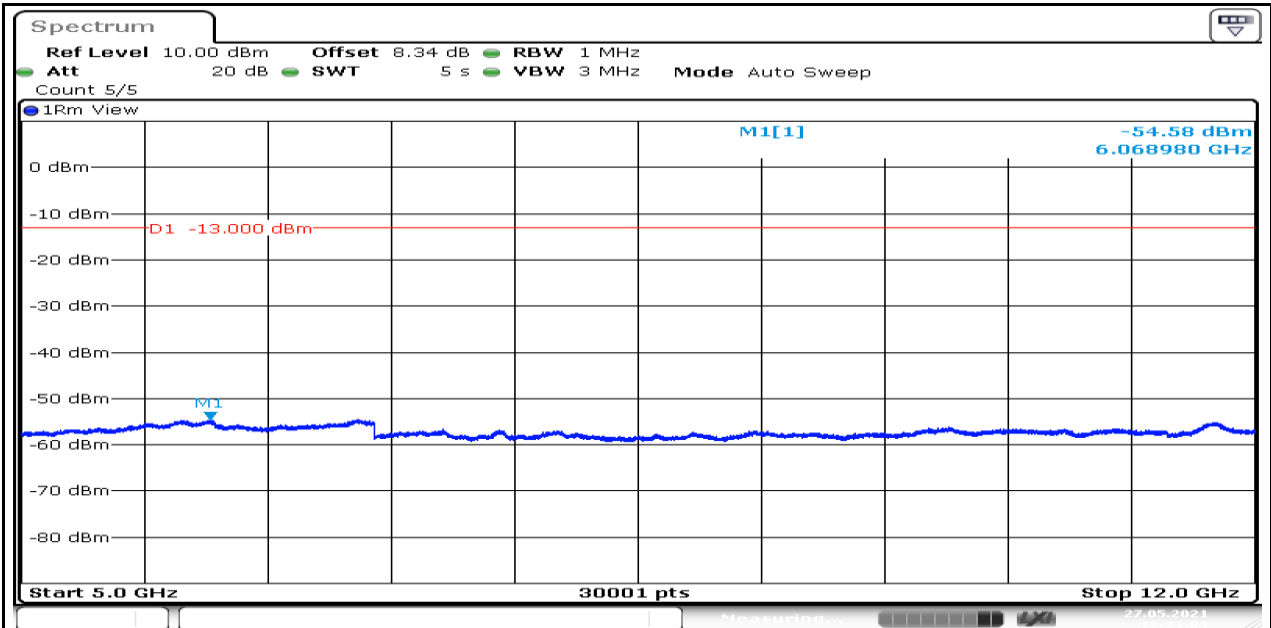
Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-30-1000-30~1000MHz@-36.49dBm--13-PASS



Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-1000-5000-1000~5000MHz@-41.31dBm--13-PASS

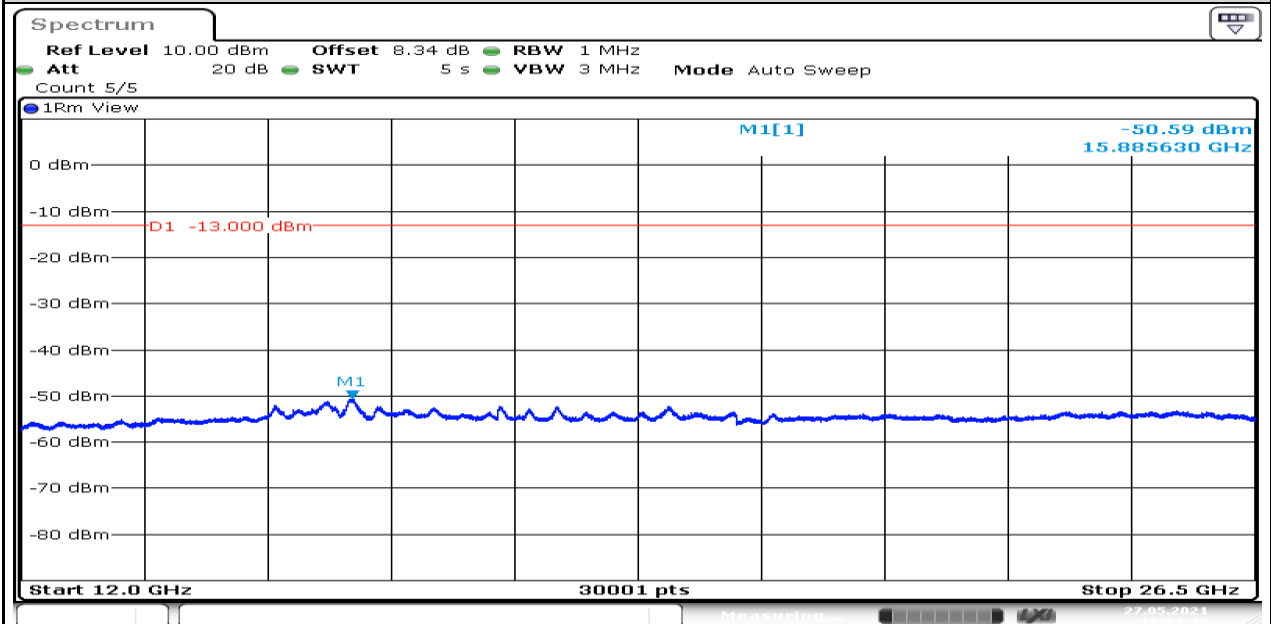


Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-5000-12000-5000~12000MHz@-54.58dBm--13-PASS



Date: 27.MAY.2021 12:21:03

Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-12000-26500-12000~26500MHz@-50.59dBm--13-PASS



Date: 27.MAY.2021 12:21:38

## APPENDIX E.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
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	HV	NT	-11.23	-0.014361	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	LV	NT	-6.15	-0.007864	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	NT	-11.69	-0.014949	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	HV	NT	-10.79	-0.013798	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	LV	NT	5.29	0.006765	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	NT	-9.44	-0.012072	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	HV	NT	-6.48	-0.008286	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	LV	NT	9.58	0.012251	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	NT	-7.60	-0.009719	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	HV	NT	-7.58	-0.009693	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	LV	NT	8.14	0.010409	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	NT	-7.50	-0.009591	±2.5	PASS

Temperature												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	50	-5.92	-0.007570	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	-40	-10.37	-0.013261	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	80	-6.75	-0.008632	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	60	-6.79	-0.008683	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	85	-6.82	-0.008721	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	40	-6.67	-0.008529	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	30	-6.84	-0.008747	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	20	-7.05	-0.009015	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	10	-6.69	-0.008555	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	0	-7.78	-0.009949	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	-10	-7.58	-0.009693	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	-20	-7.12	-0.009105	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	-30	-8.53	-0.010908	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@0	NV	70	-7.18	-0.009182	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	20	-8.11	-0.010371	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	70	-6.54	-0.008363	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	60	-7.65	-0.009783	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	50	-6.97	-0.008913	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	40	-7.81	-0.009987	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	30	-7.44	-0.009514	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	10	-7.42	-0.009488	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	0	-7.62	-0.009744	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	-10	-7.47	-0.009552	±2.5	PASS

Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	-20	-8.45	-0.010806	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	80	-7.88	-0.010077	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	-40	-9.91	-0.012673	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	85	-7.71	-0.009859	±2.5	PASS
Band13	Stand-Alone	3.75kHz	NaN	QPSK	23230	1@47	NV	-30	-8.67	-0.011087	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	50	-10.04	-0.012839	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	-40	-8.41	-0.010754	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	80	-7.14	-0.009130	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	60	-7.71	-0.009859	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	85	-7.80	-0.009974	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	40	-8.87	-0.011343	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	30	-8.61	-0.011010	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	20	-8.73	-0.011164	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	10	-7.08	-0.009054	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	0	-7.27	-0.009297	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	-10	-11.19	-0.014309	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	-20	-8.21	-0.010499	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	-30	-9.08	-0.011611	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@0	NV	70	-7.55	-0.009655	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	30	-7.08	-0.009054	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	80	-6.32	-0.008082	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	70	-7.41	-0.009476	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	60	6.77	0.008657	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	50	-6.45	-0.008248	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	40	-8.97	-0.011471	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	20	-9.03	-0.011547	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	10	-8.75	-0.011189	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	0	-8.63	-0.011036	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	-10	-9.86	-0.012609	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	-20	-8.96	-0.011458	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	-40	-8.18	-0.010460	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	85	-8.08	-0.010332	±2.5	PASS
Band13	Stand-Alone	15kHz	NaN	QPSK	23230	1@11	NV	-30	-7.45	-0.009527	±2.5	PASS