

APPENDIX A: TEST RESULTS OF BAND 2 FOR NB-IOT OPERATION

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

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Measure Result	EIRP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@0	6.41	8.55	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@47	6.4	8.54	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18602	1@0	23.19	25.33	0.341	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18602	1@47	23.27	25.41	0.348	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18900	1@0	23.01	25.15	0.327	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18900	1@47	22.91	25.05	0.320	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19198	1@0	22.86	25.00	0.316	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19198	1@47	22.85	24.99	0.316	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@0	6.37	8.51	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@47	6.32	8.46	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	6.47	8.61	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	6.47	8.61	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18602	1@0	23.31	25.45	0.351	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18602	1@47	23.31	25.45	0.351	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	23.08	25.22	0.333	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	23.05	25.19	0.330	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19198	1@0	22.94	25.08	0.322	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19198	1@47	22.92	25.06	0.321	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	6.45	8.59	0.007	2	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	6.31	8.45	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	6.56	8.70	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	6.52	8.66	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	3@3	6.59	8.73	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18602	1@0	21.48	23.62	0.230	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18602	1@11	21.41	23.55	0.226	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18602	3@3	23.74	25.88	0.387	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	21.15	23.29	0.213	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	21.07	23.21	0.209	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	3@3	23.38	25.52	0.356	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19198	1@0	22.39	24.53	0.284	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19198	1@11	22.35	24.49	0.281	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19198	3@3	23.45	25.59	0.362	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	6.33	8.47	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	6.3	8.44	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	3@3	6.38	8.52	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@0	6.56	8.70	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@11	6.49	8.63	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	3@3	6.6	8.74	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	1@0	21.6	23.74	0.237	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	1@11	21.5	23.64	0.231	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	3@3	23.86	26.00	0.398	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	21.35	23.49	0.223	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	21.26	23.40	0.219	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	3@3	23.27	25.41	0.348	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	1@0	21.2	23.34	0.216	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	1@11	21.04	23.18	0.208	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	3@3	23.46	25.60	0.363	2	PASS

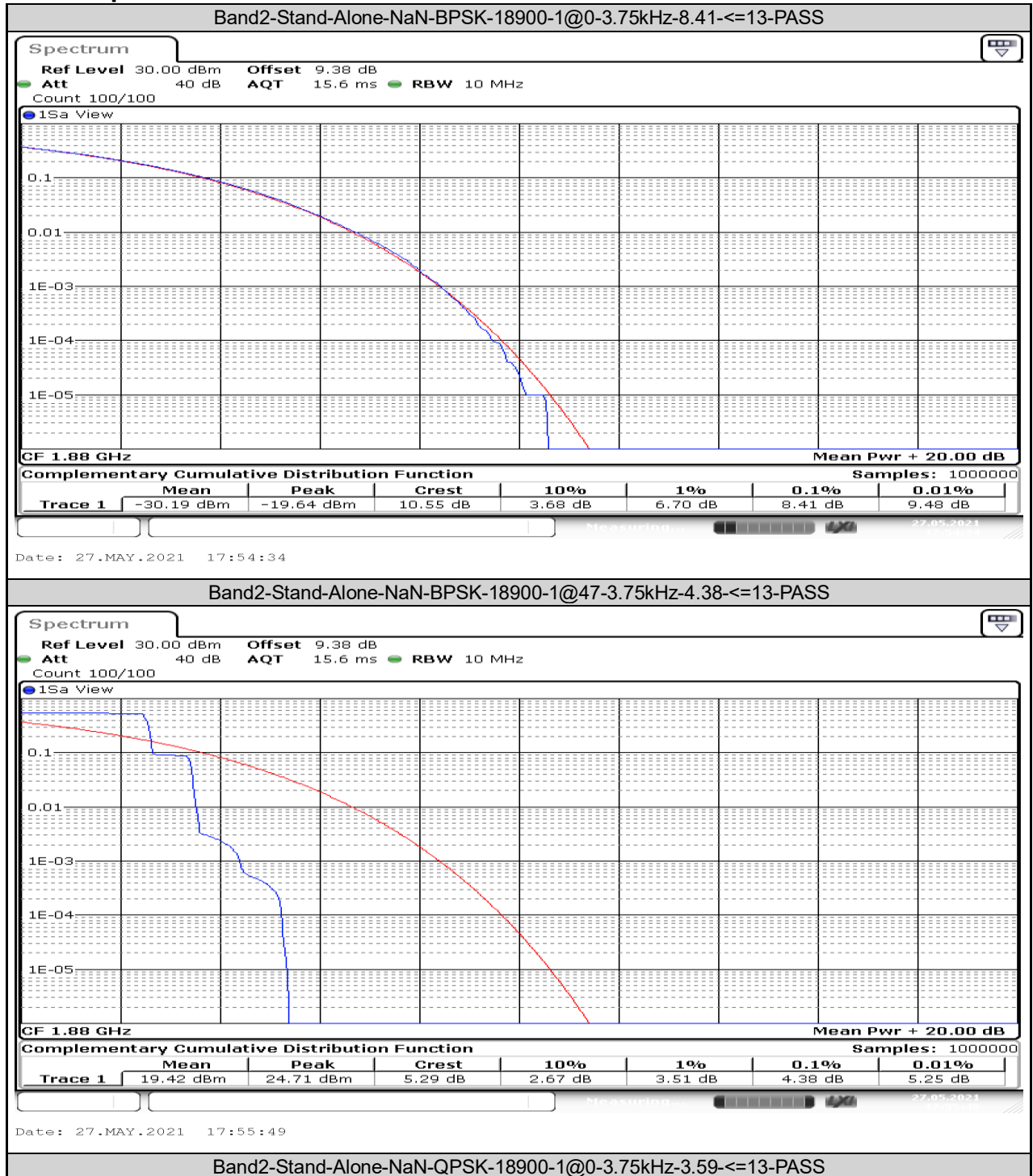
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@0	6.44	8.58	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@11	6.37	8.51	0.007	2	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	3@3	6.38	8.52	0.007	2	PASS

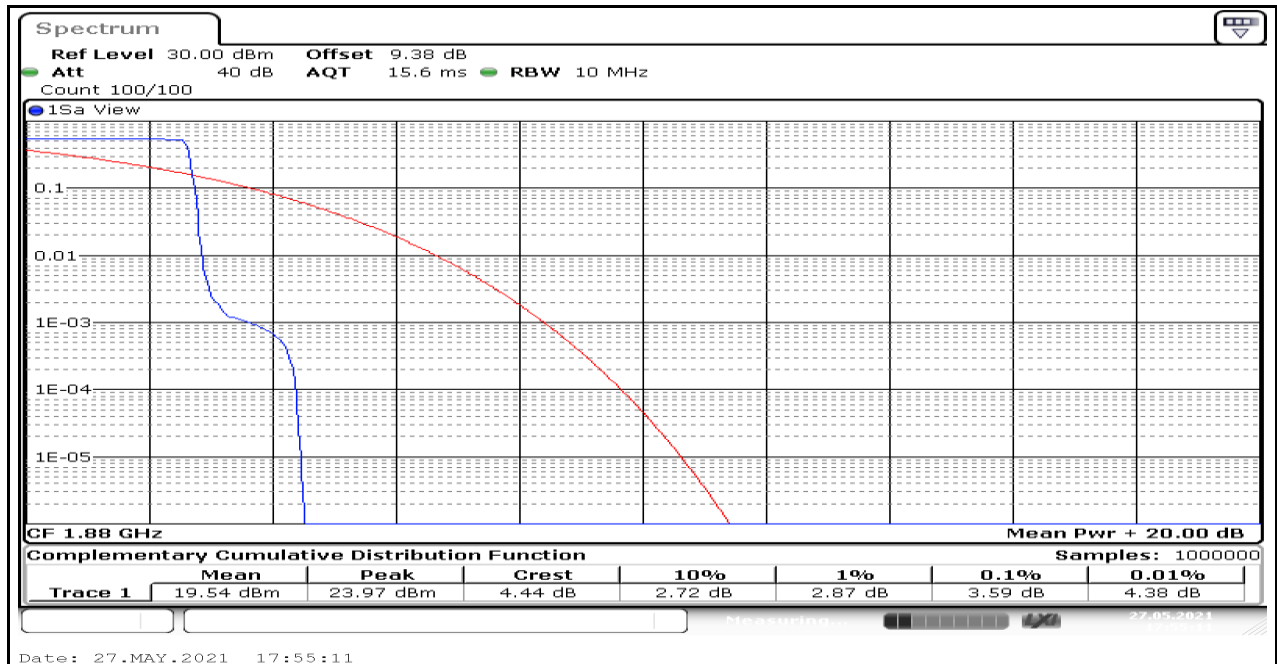
APPENDIX A.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR NB-IOT

Test Result

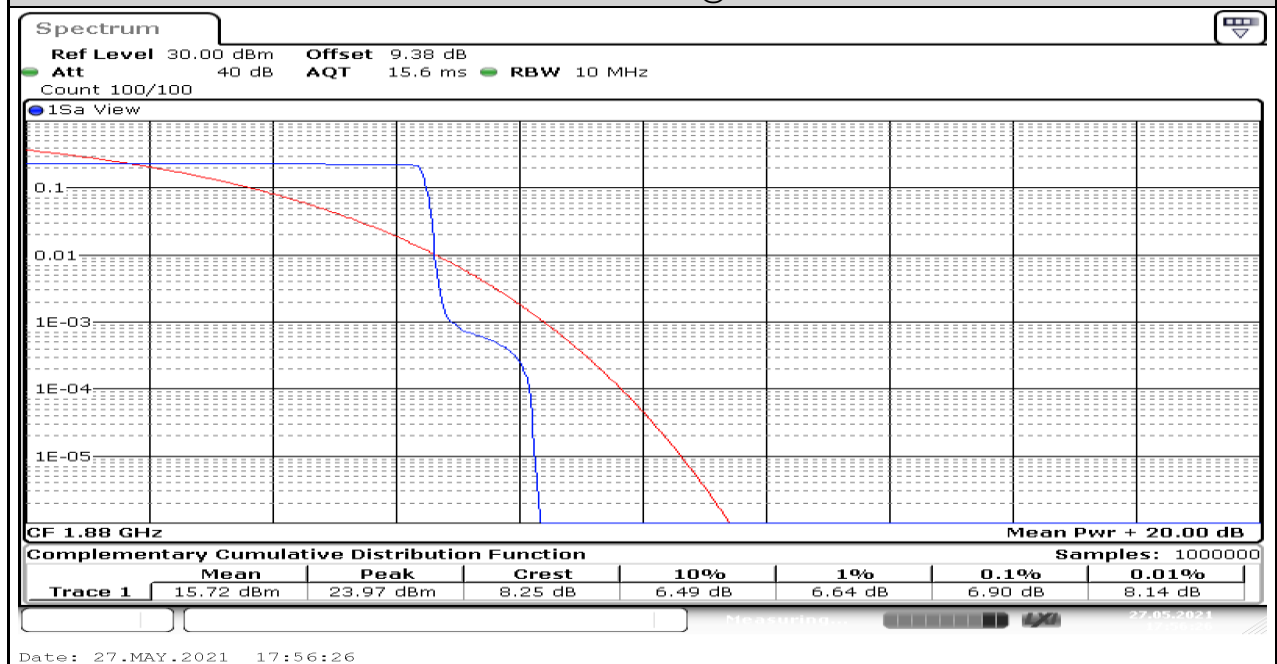
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dB)	Limit (dB)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18900	1@0	8.41	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18900	1@47	4.38	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	3.59	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	6.9	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	5.57	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	3.07	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	3@3	10.09	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	9.07	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	4.46	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	3@3	11.83	<=13	PASS

Test Graphs

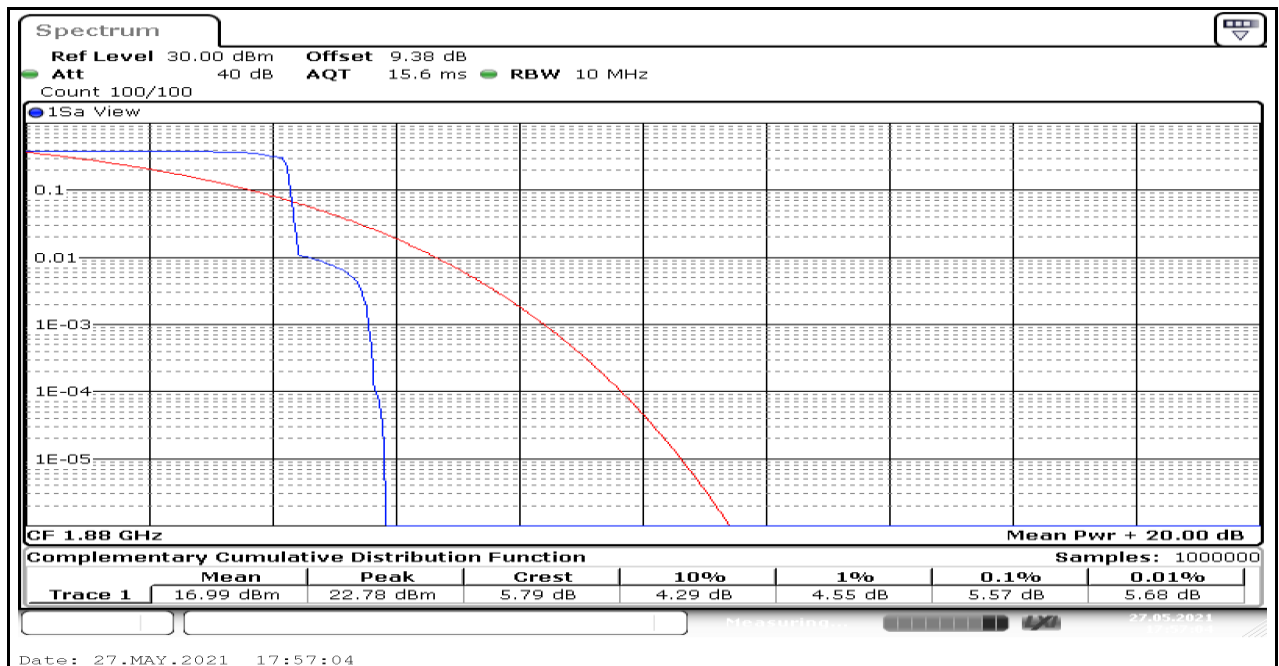




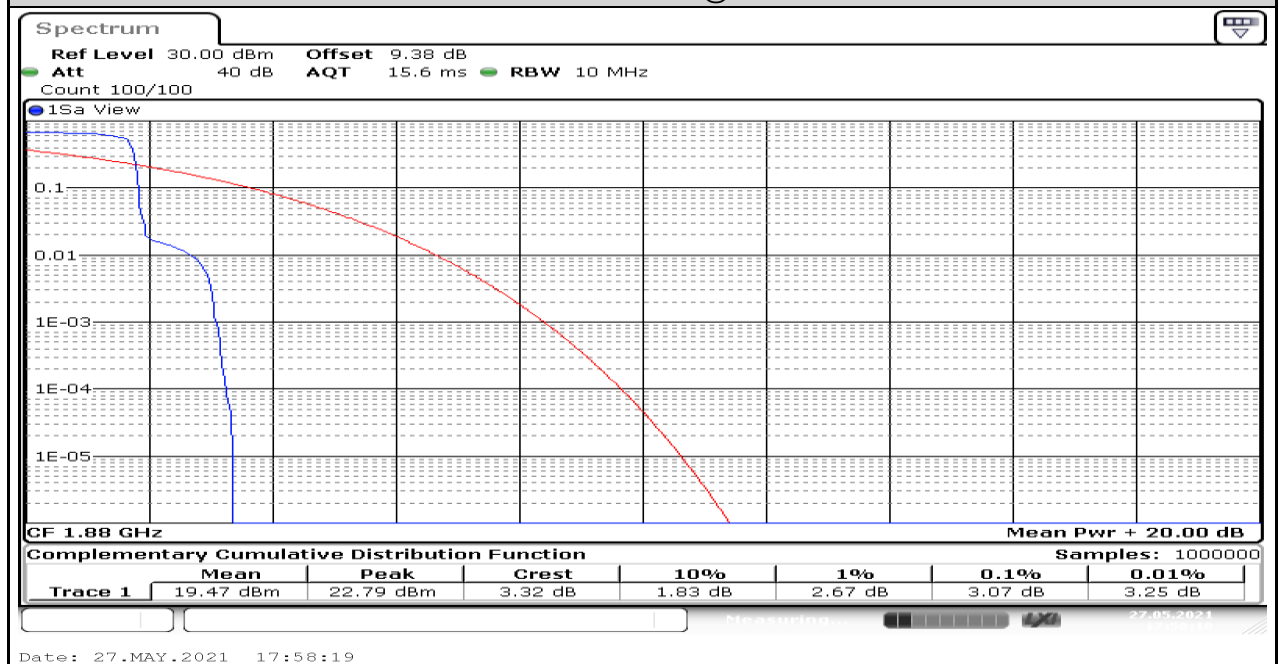
Band2-Stand-Alone-NaN-QPSK-18900-1@47-3.75kHz-6.9-<=13-PASS



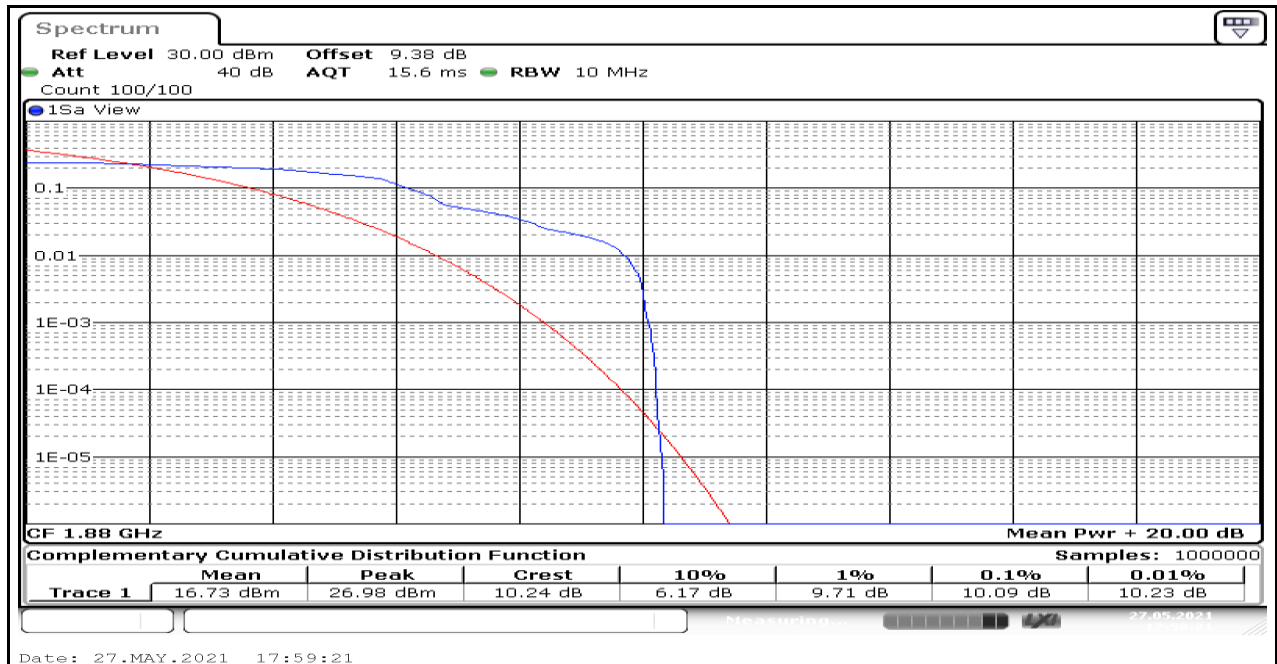
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-5.57-<=13-PASS



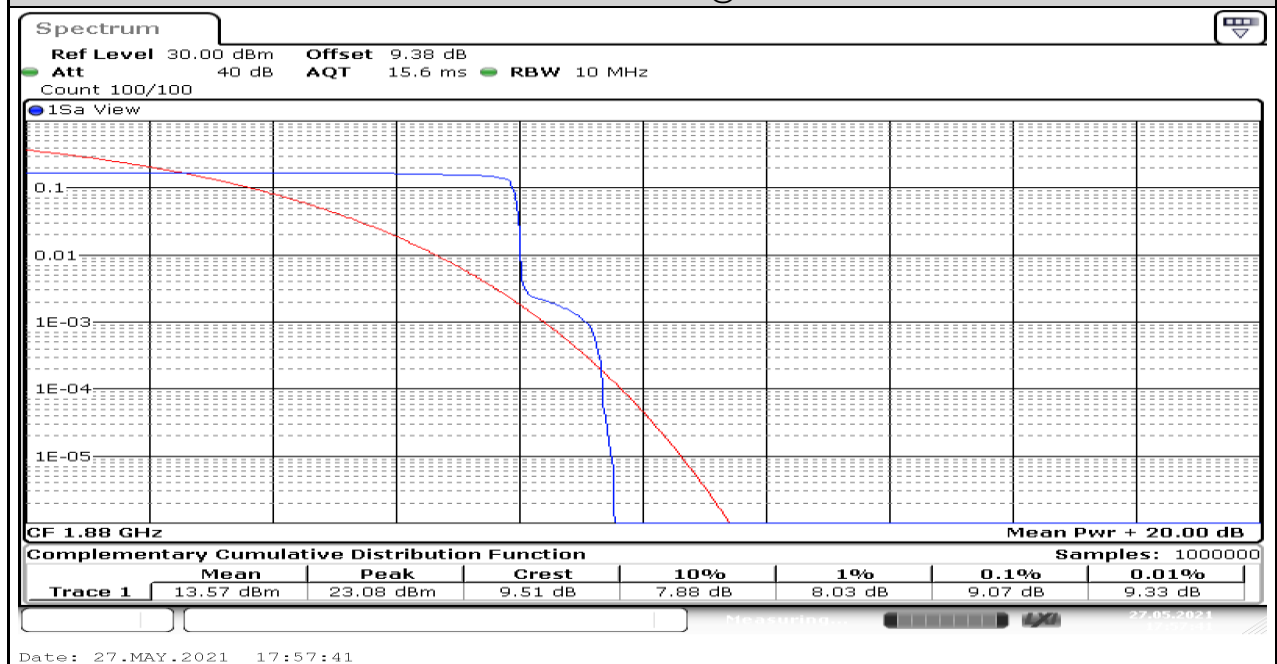
Band2-Stand-Alone-NaN-BPSK-18900-1@11-15kHz-3.07-<=13-PASS



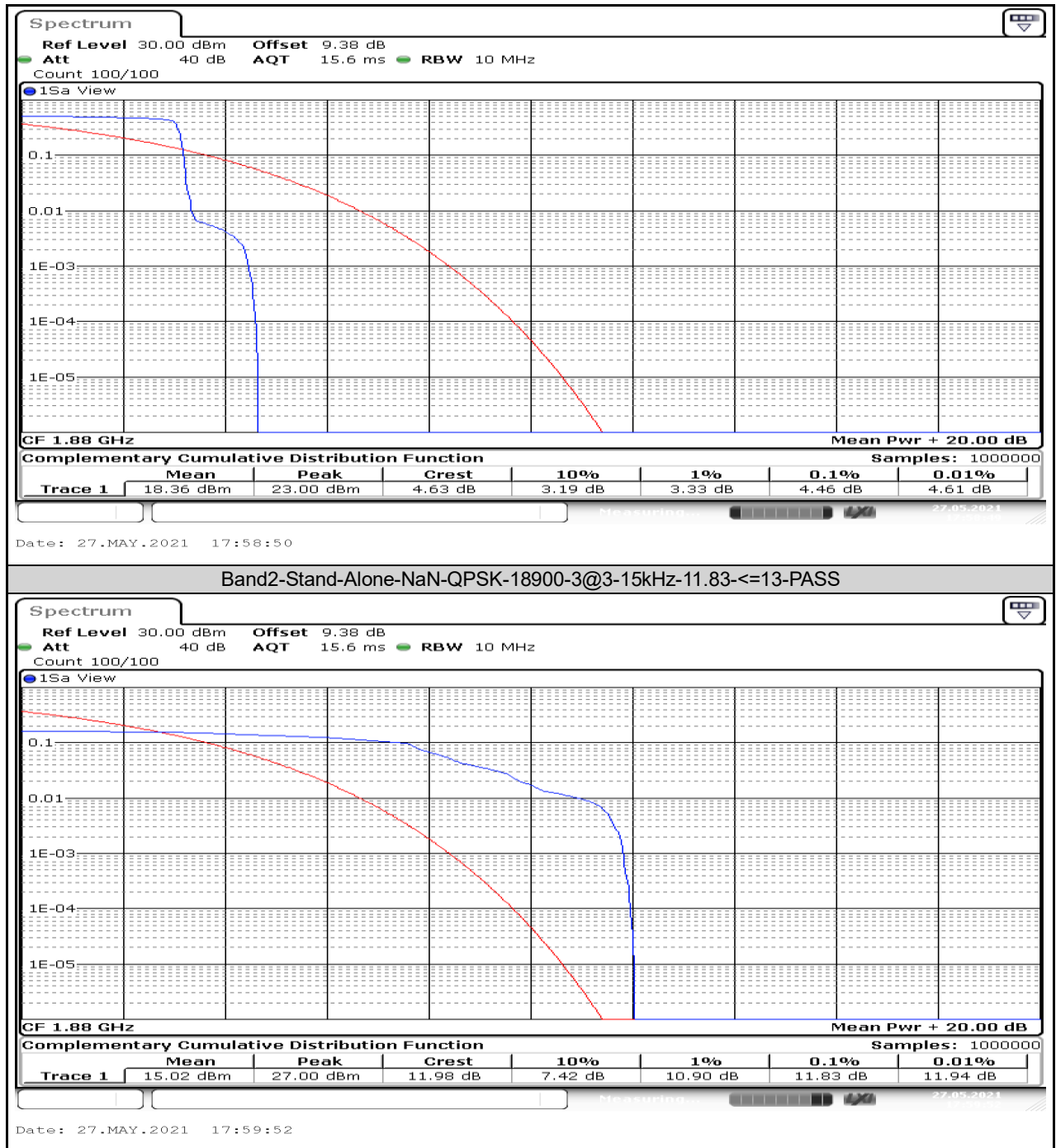
Band2-Stand-Alone-NaN-BPSK-18900-3@3-15kHz-10.09-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18900-1@0-15kHz-9.07-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18900-1@11-15kHz-4.46-<=13-PASS

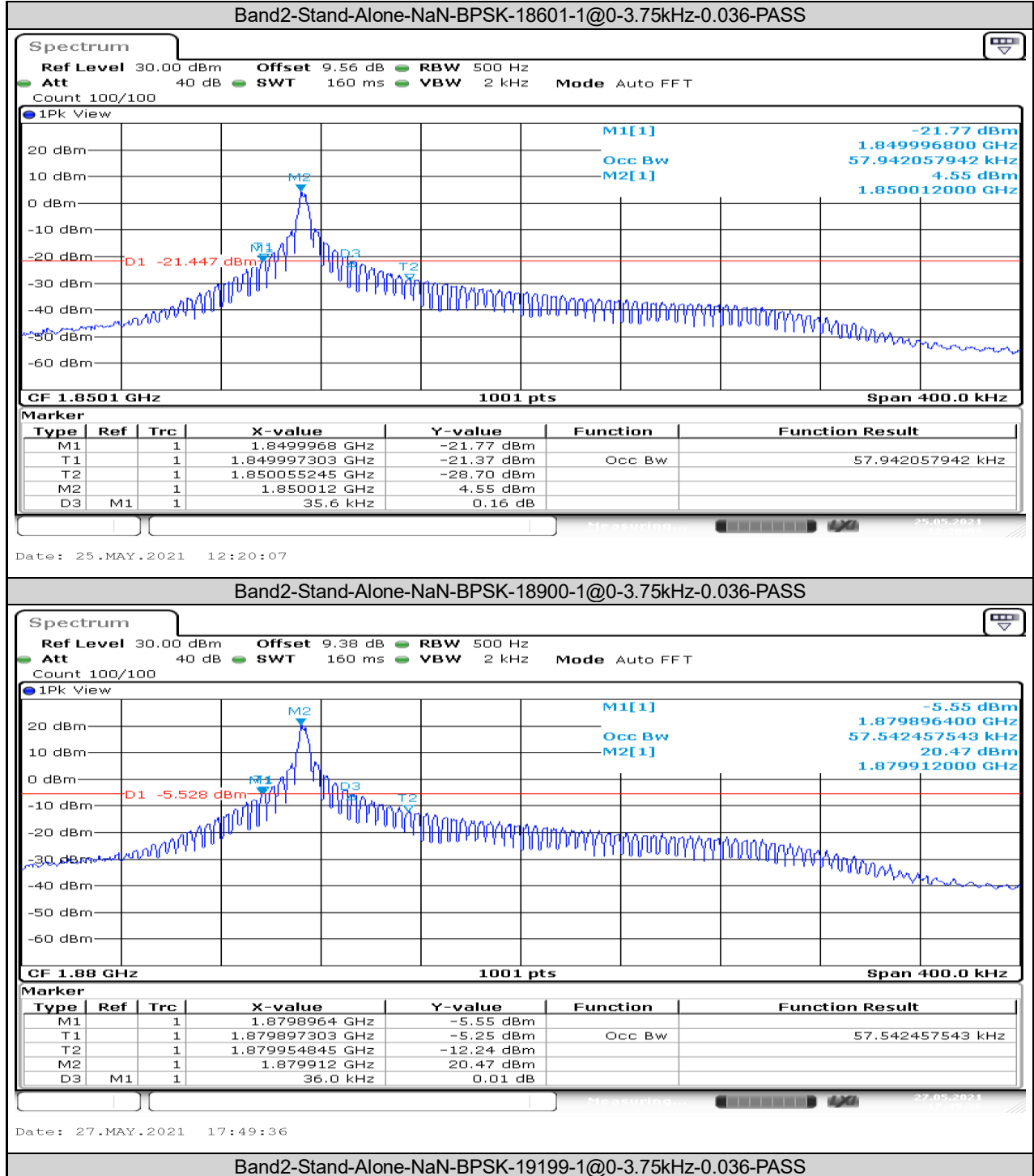


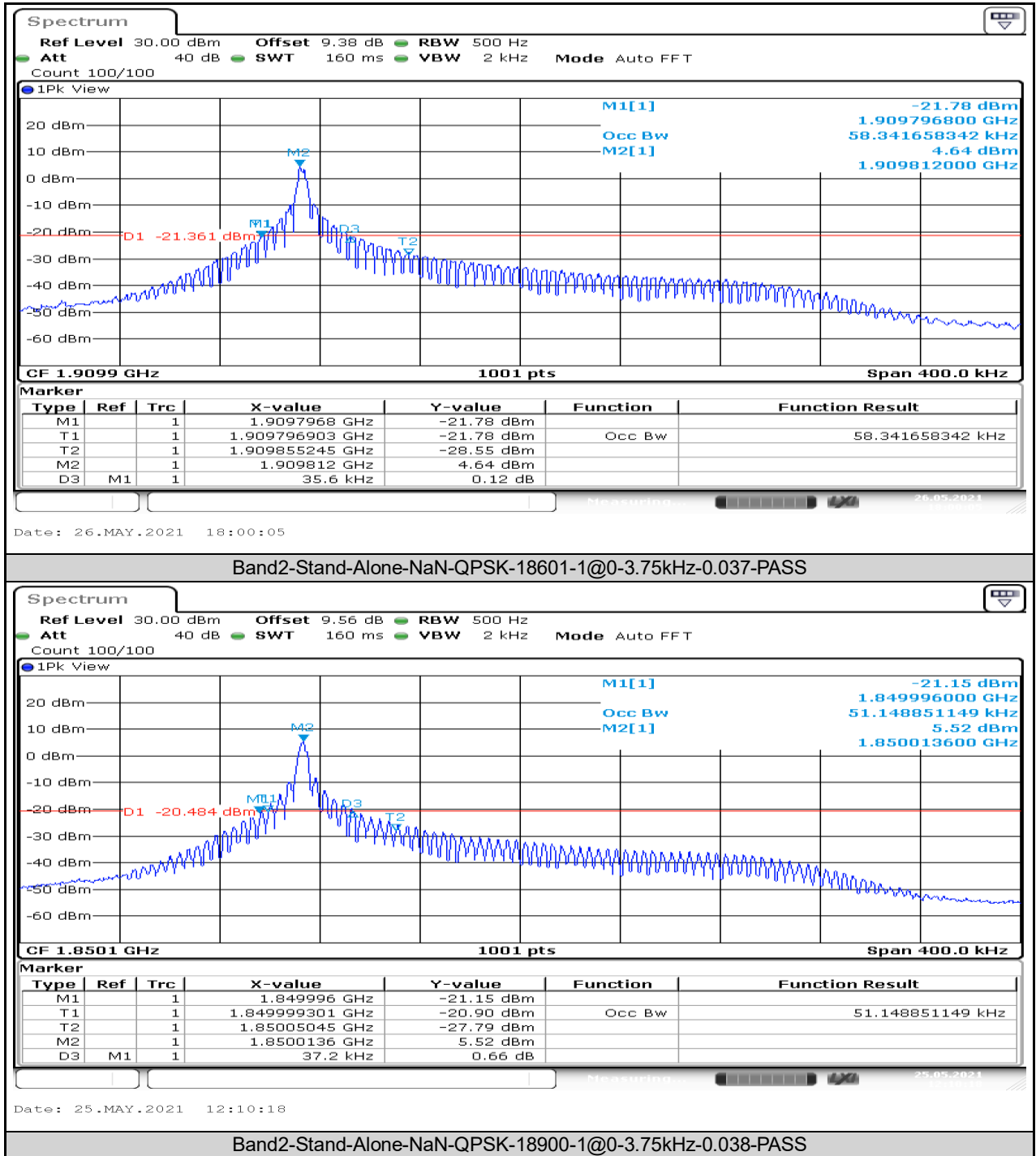
APPENDIX A.3: EMISSION BANDWIDTH FOR NB-IOT

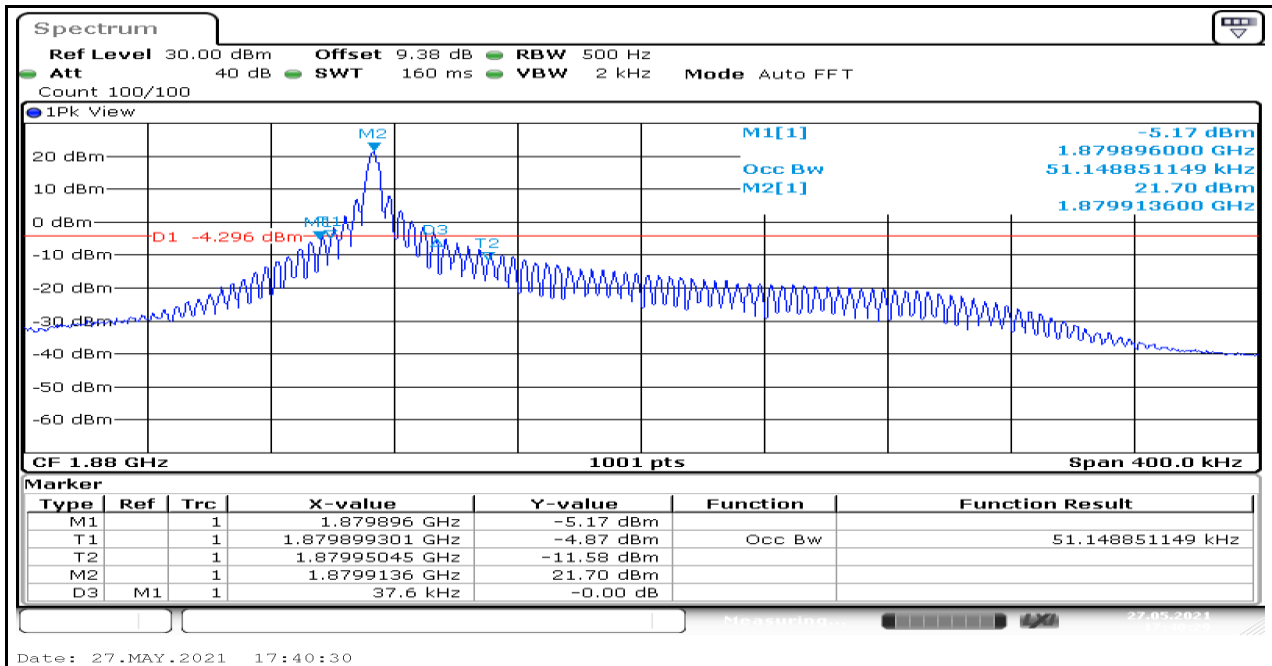
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (MHz)		Verdict
							26dB	99%	
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@0	0.036	0.058	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18900	1@0	0.036	0.058	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@0	0.036	0.058	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	0.037	0.051	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	0.038	0.051	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	0.037	0.052	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	0.104	0.130	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	0.104	0.129	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	0.104	0.129	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@0	0.118	0.121	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	0.250	0.185	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	0.118	0.121	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	12@0	0.252	0.186	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@0	0.118	0.121	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	0.250	0.185	PASS

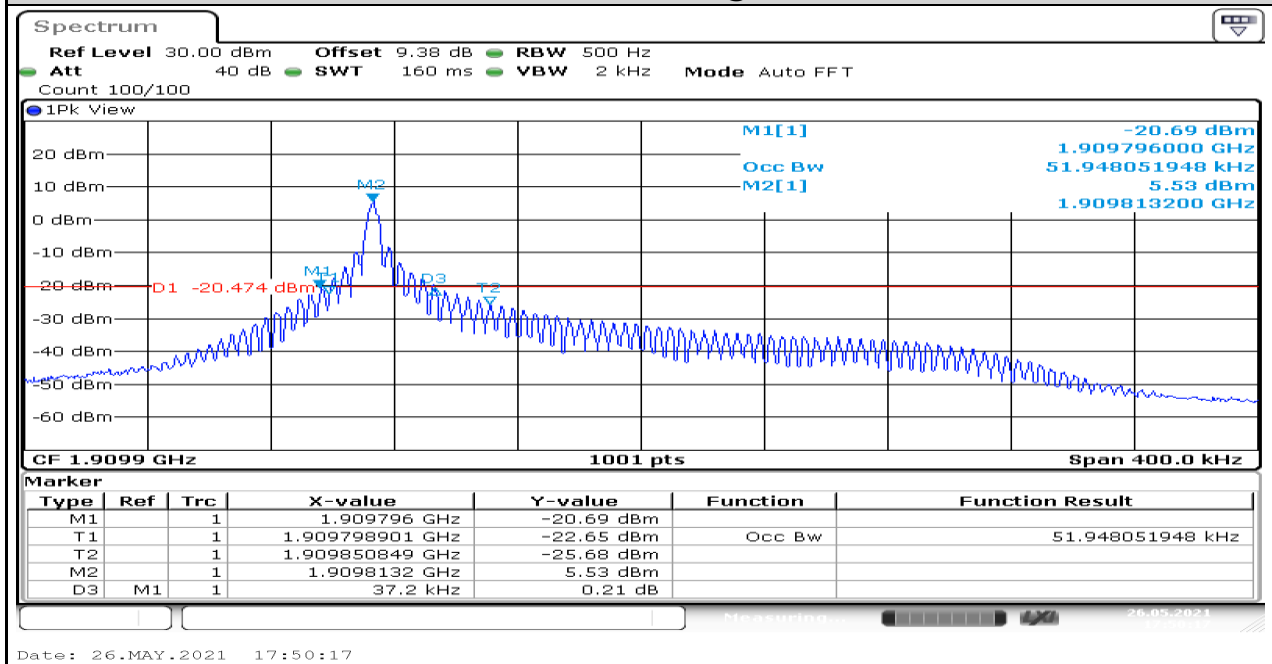
Test Graphs



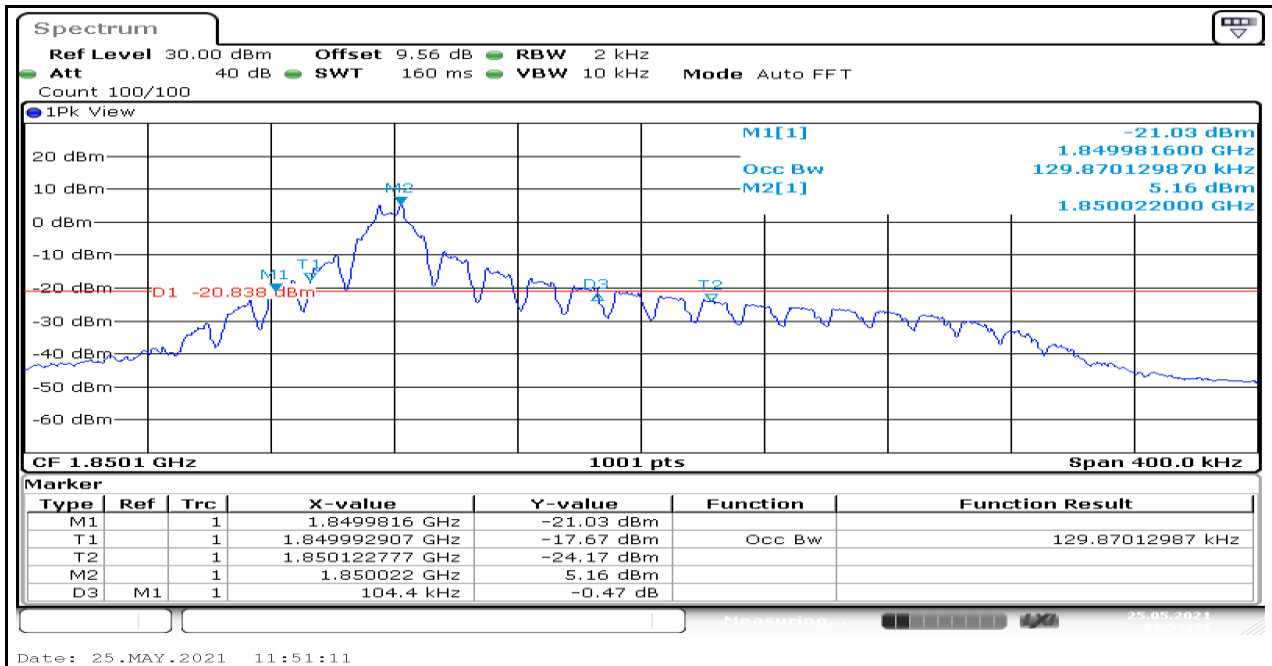




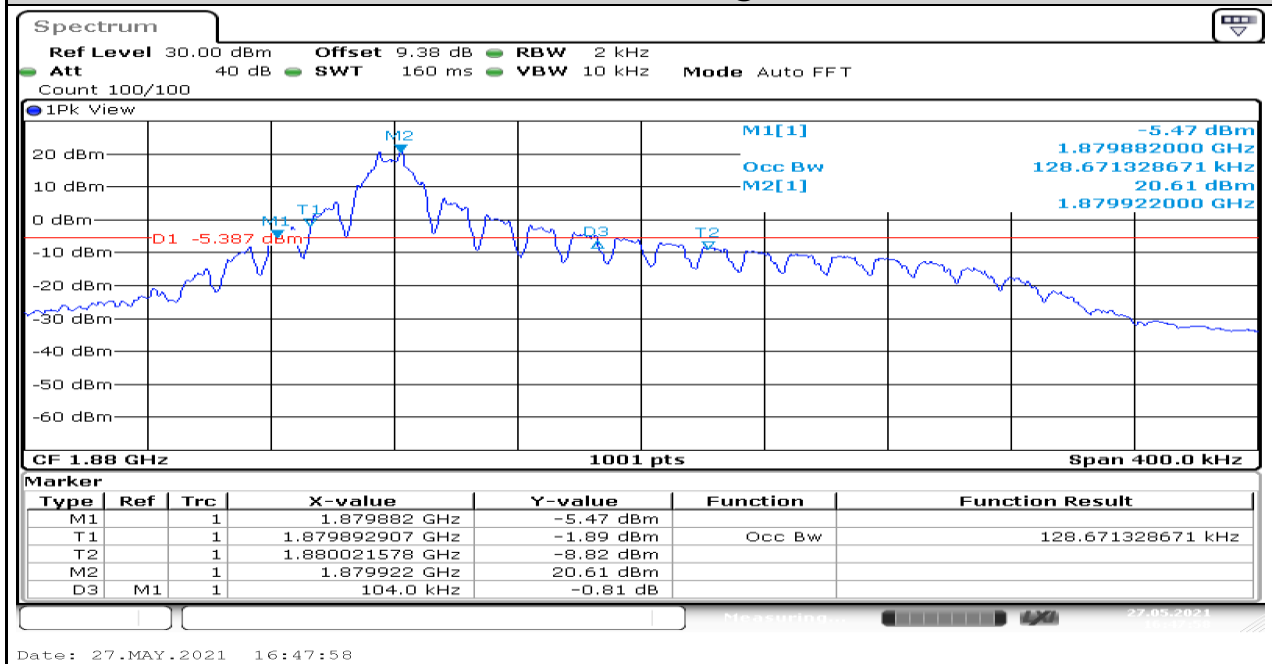
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.037-PASS



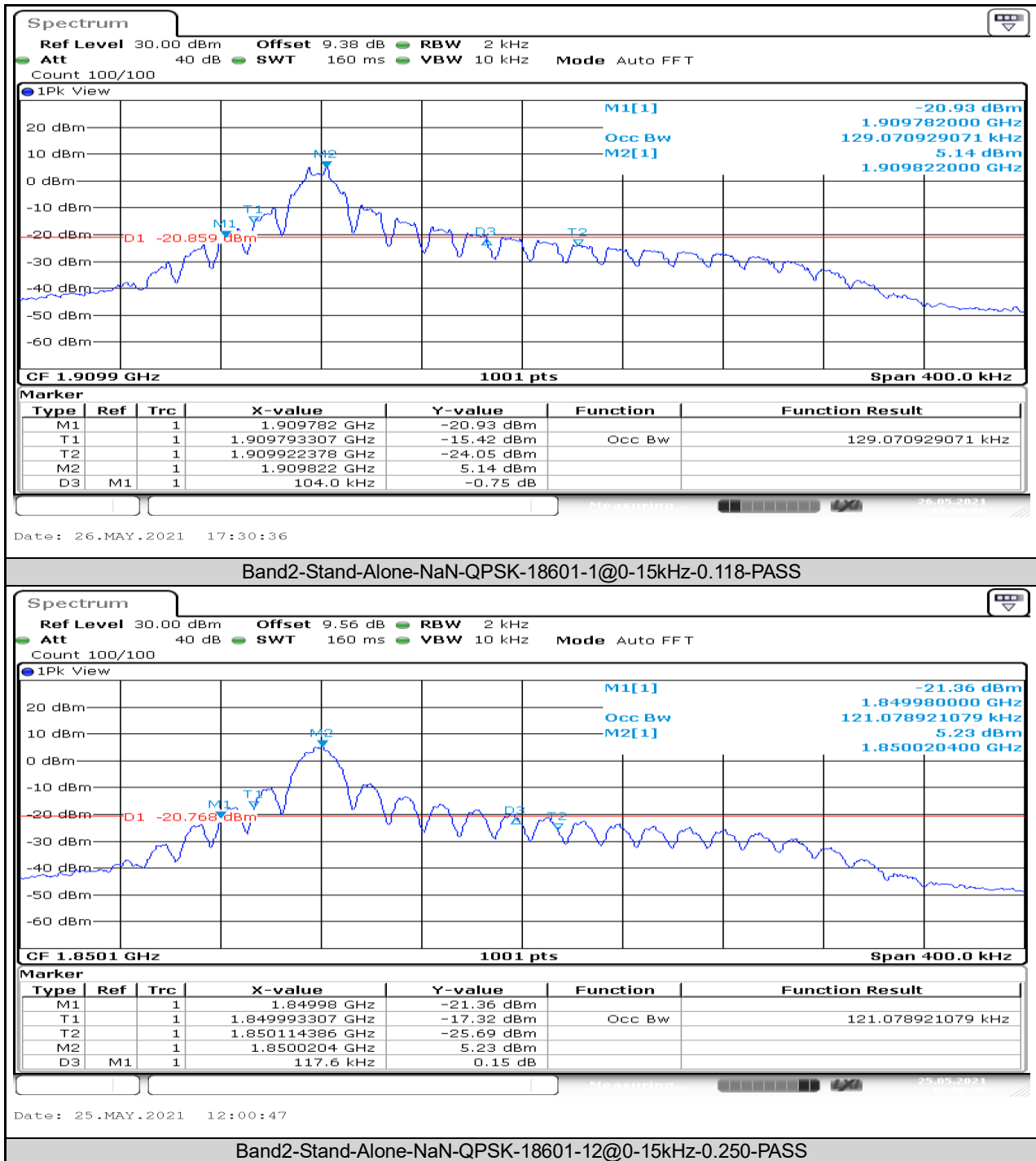
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.104-PASS

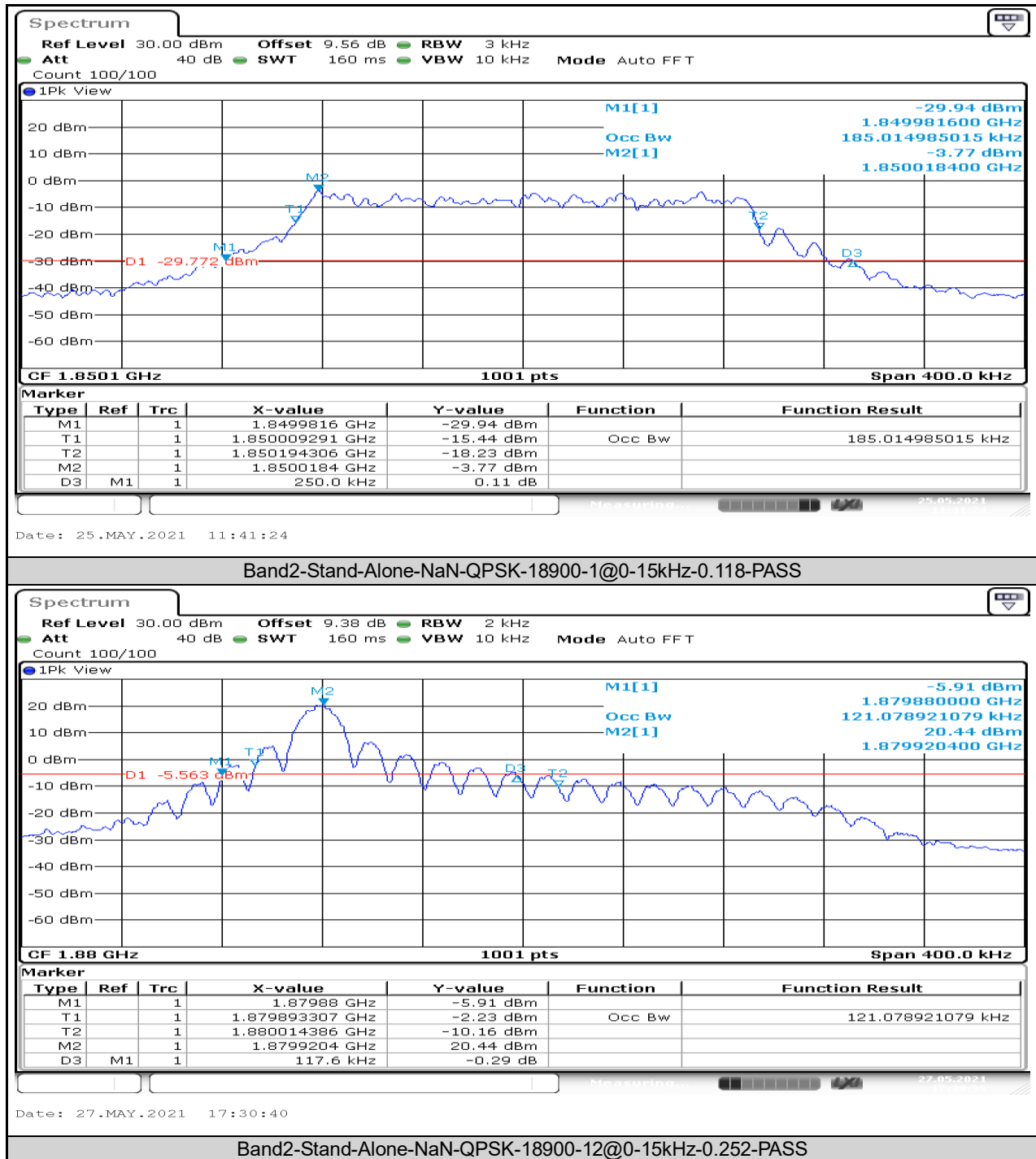


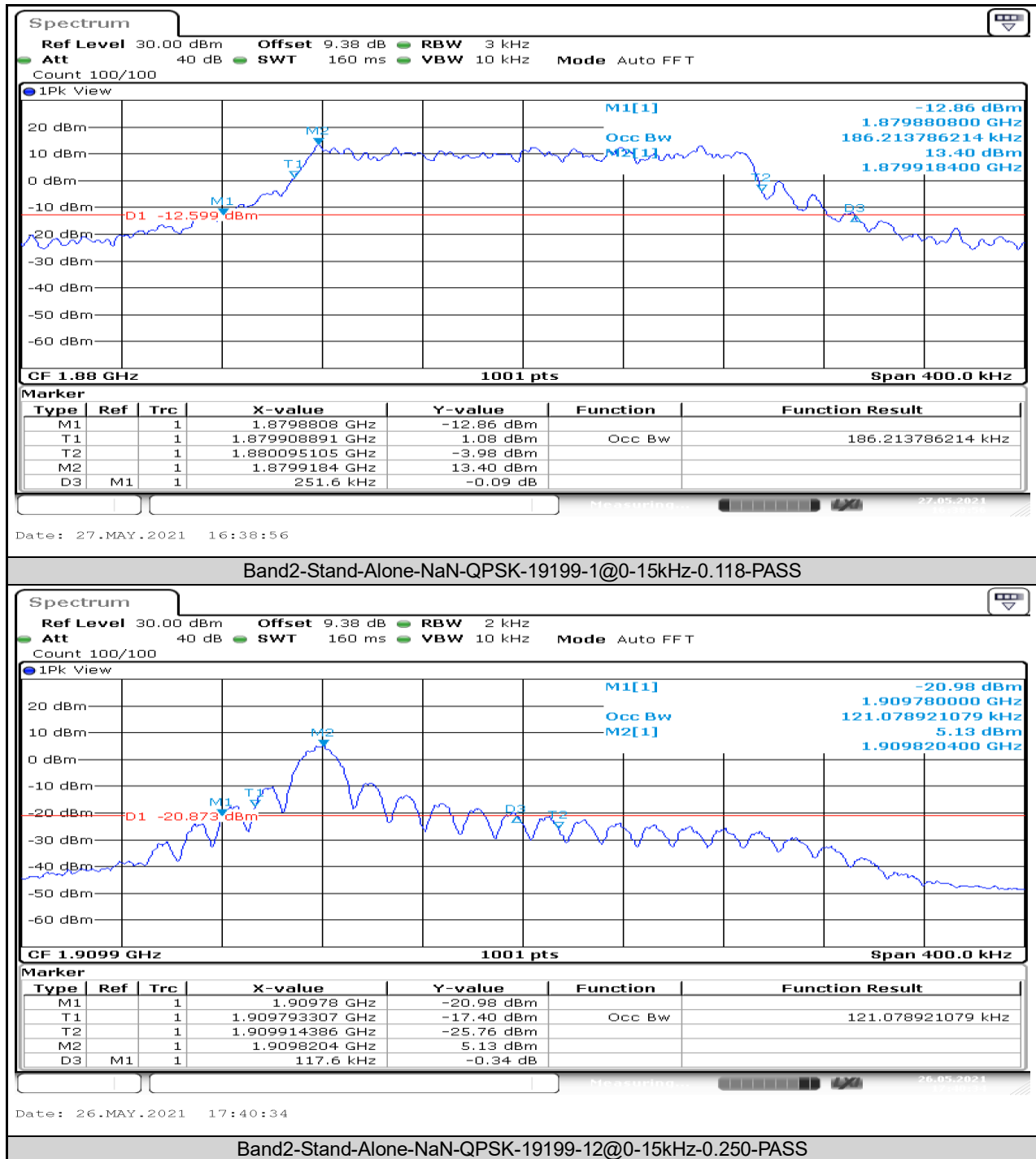
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-0.104-PASS

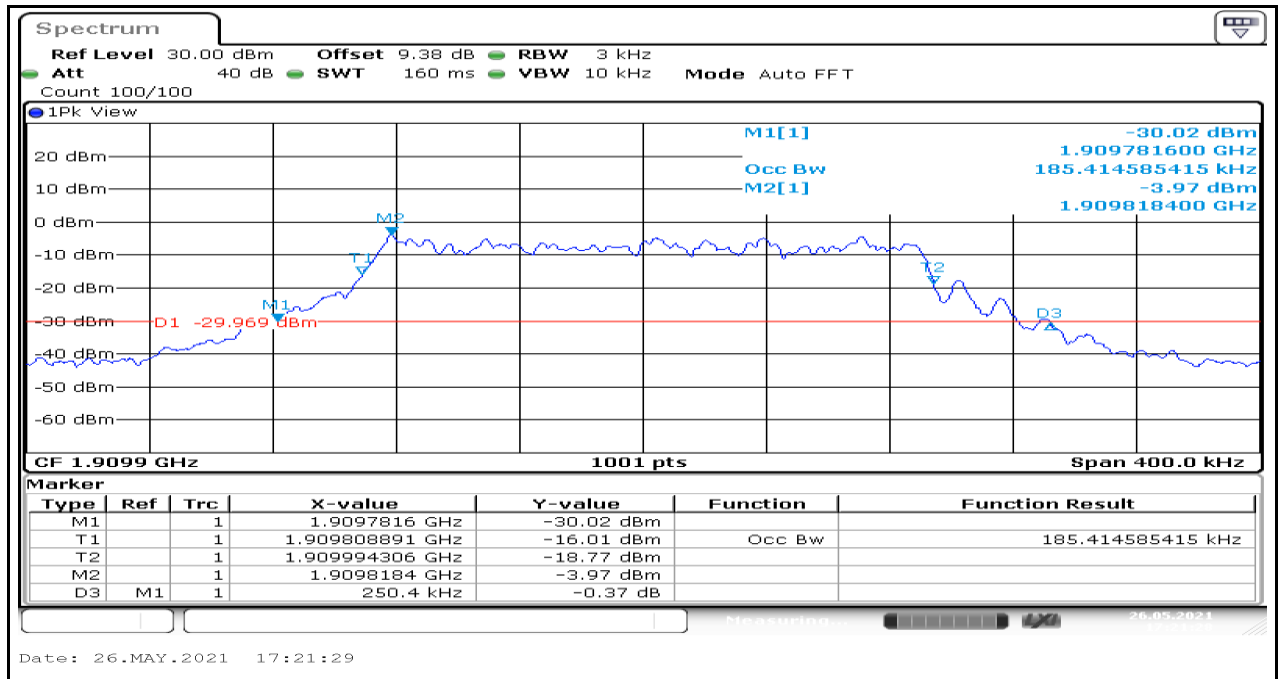


Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.104-PASS







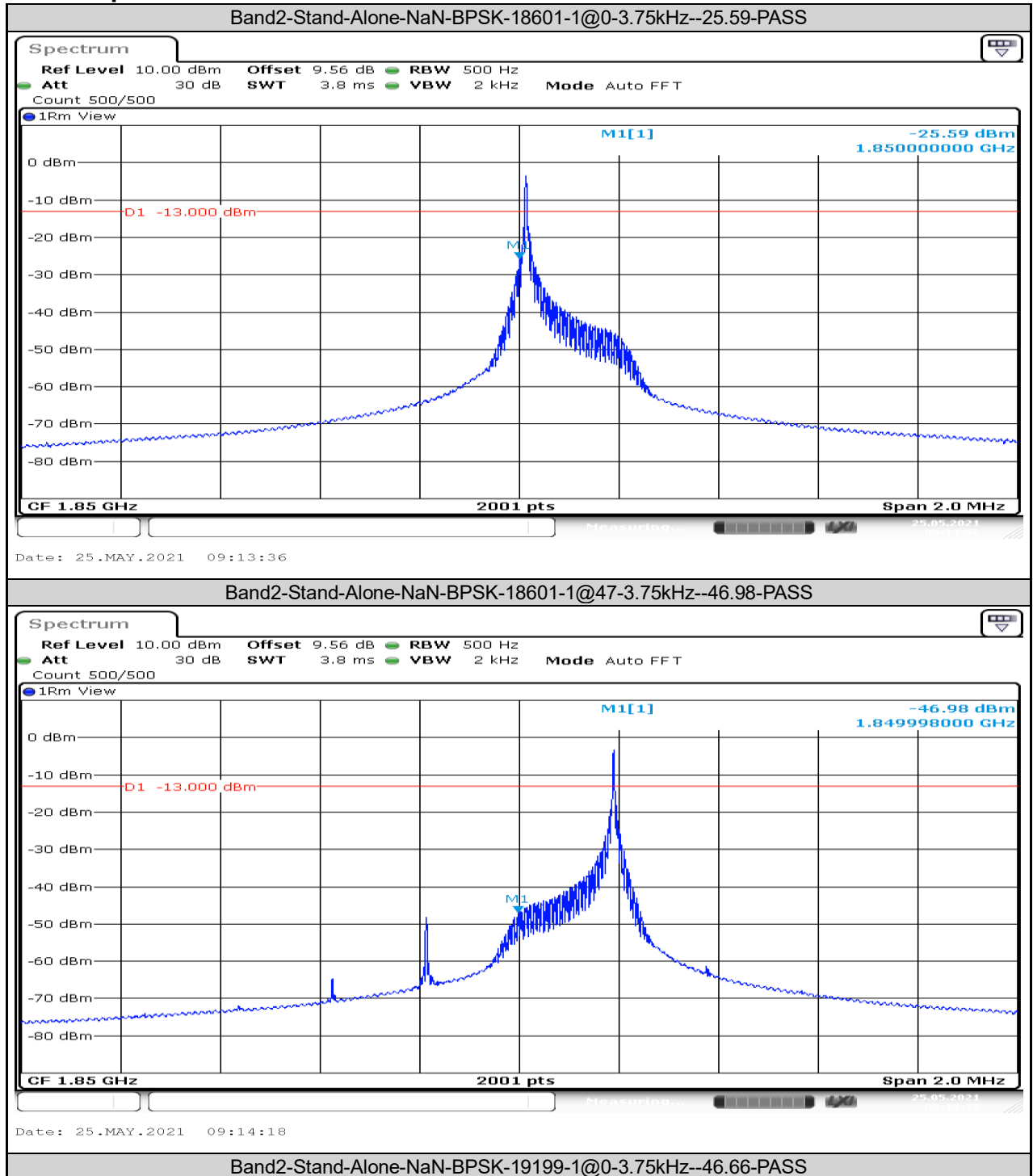


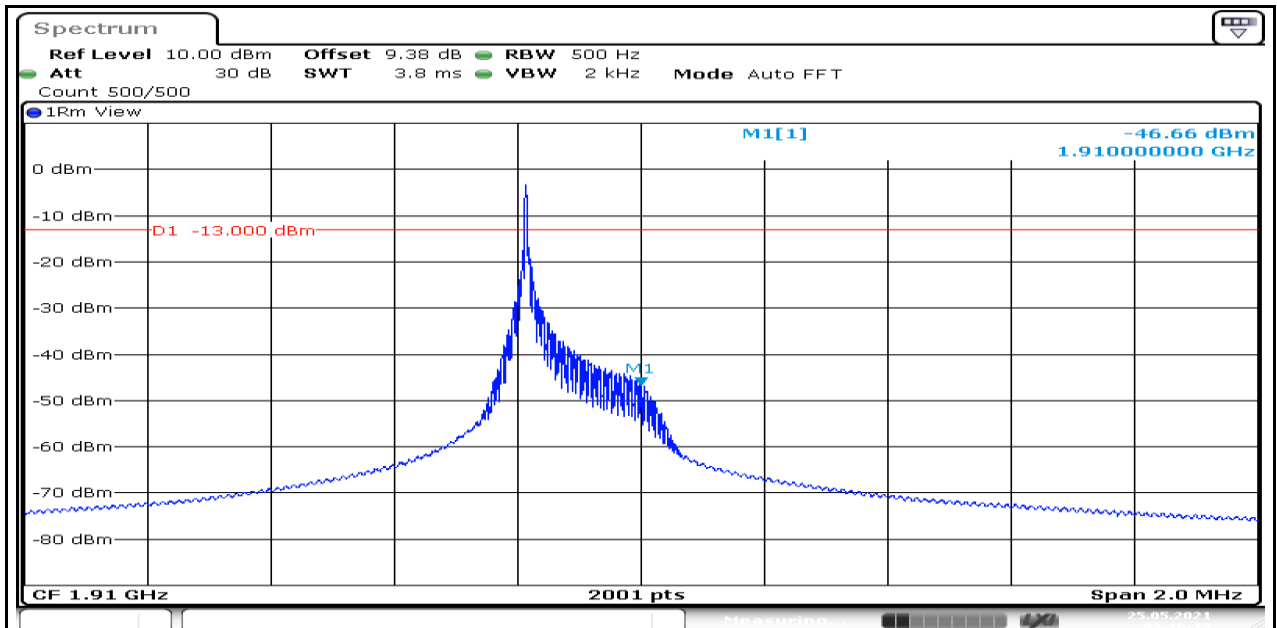
APPENDIX A.4: BAND EDGE FOR NB-IOT

Test Result

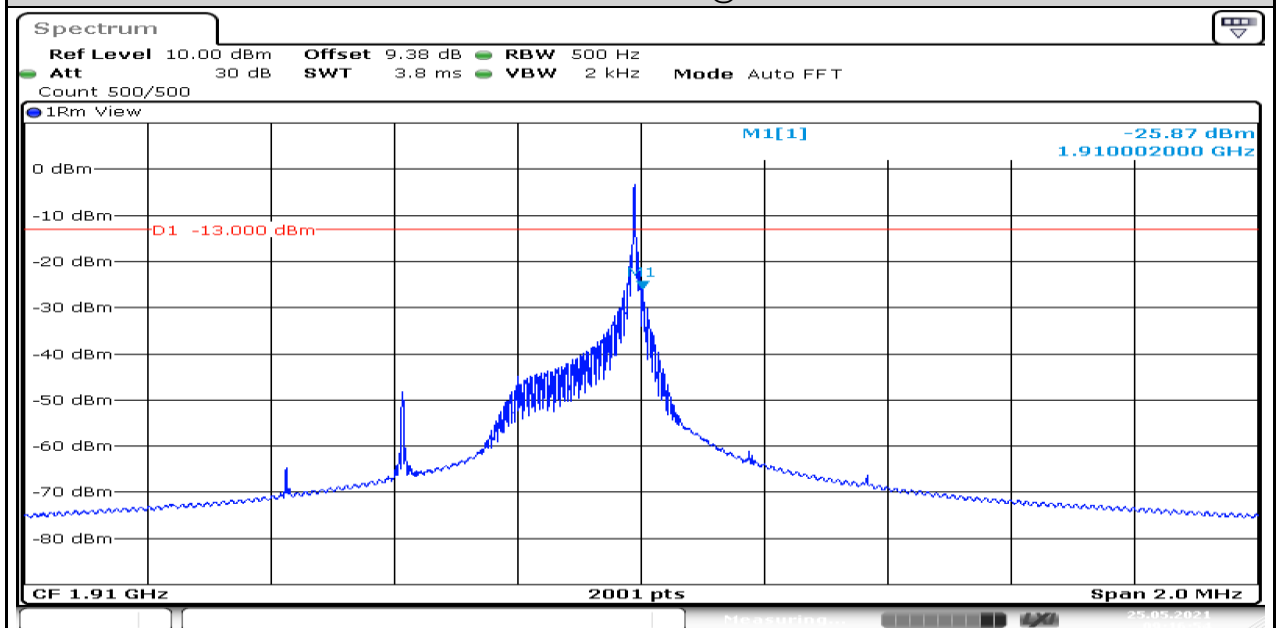
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@0	-25.59	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@47	-46.98	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@0	-46.66	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@47	-25.87	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	-27.27	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	-48.95	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	-48.23	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	-27.01	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	-19.92	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	-38.67	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	-38.64	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	-20.06	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@0	-22.57	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@11	-40.36	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	-39.41	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@0	-39.69	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@11	-21.63	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	-34.83	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18602	1@0	-42.75	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18602	1@0	-43.31	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18602	1@0	-44.00	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	1@0	-45.97	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18602	1@11	-35.16	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	1@11	-35.22	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18602	1@47	-32.36	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18602	1@47	-32.33	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18602	12@0	-43.05	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19198	1@0	-47.63	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19198	1@0	-49.30	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19198	1@0	-53.98	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	1@0	-52.91	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19198	1@11	-44.08	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	1@11	-44.35	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19198	1@47	-42.30	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19198	1@47	-42.89	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19198	12@0	-44.59	PASS

Test Graphs

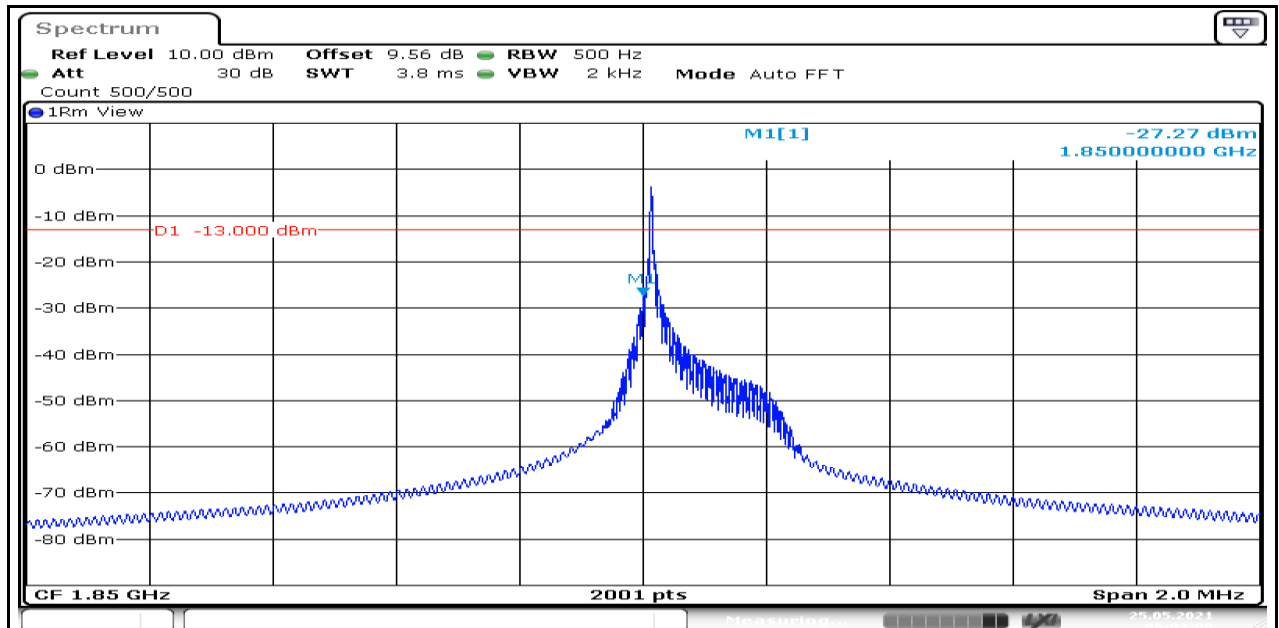




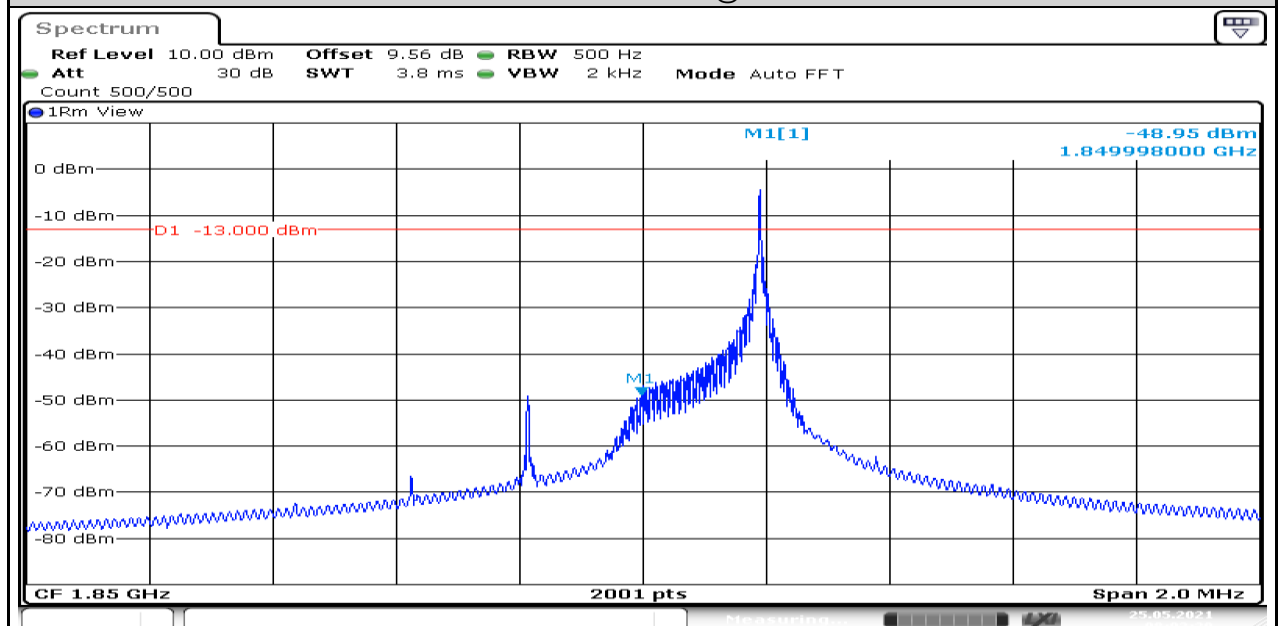
Band2-Stand-Alone-NaN-BPSK-19199-1@47-3.75kHz--25.87-PASS



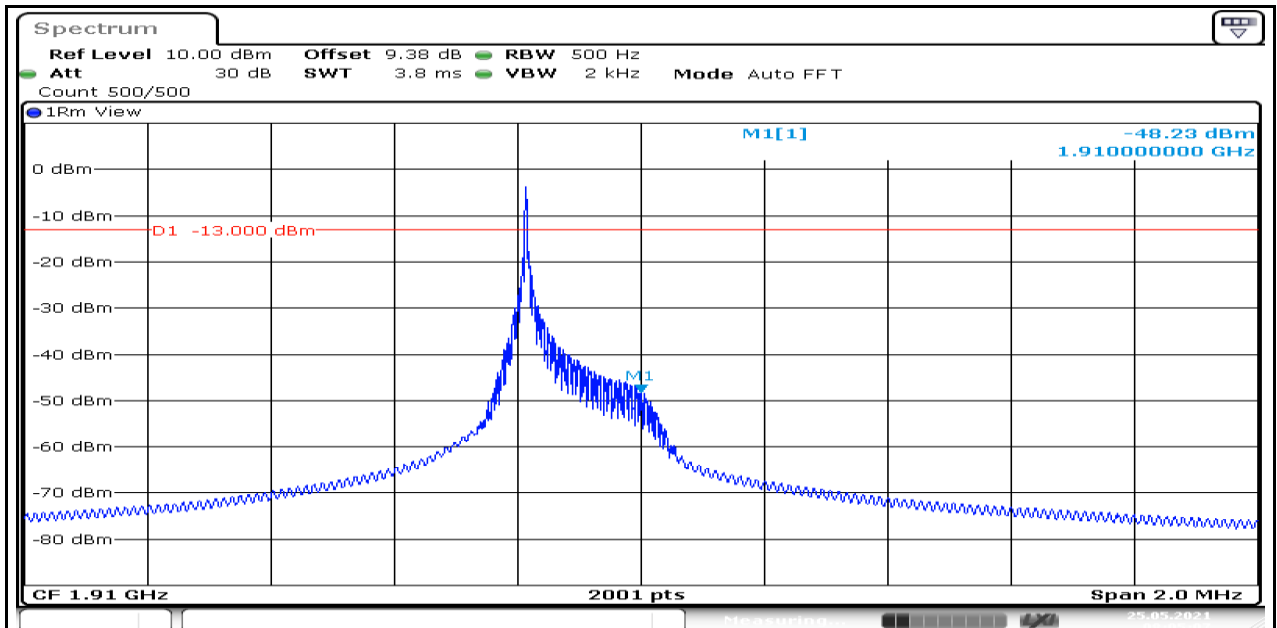
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz--27.27-PASS



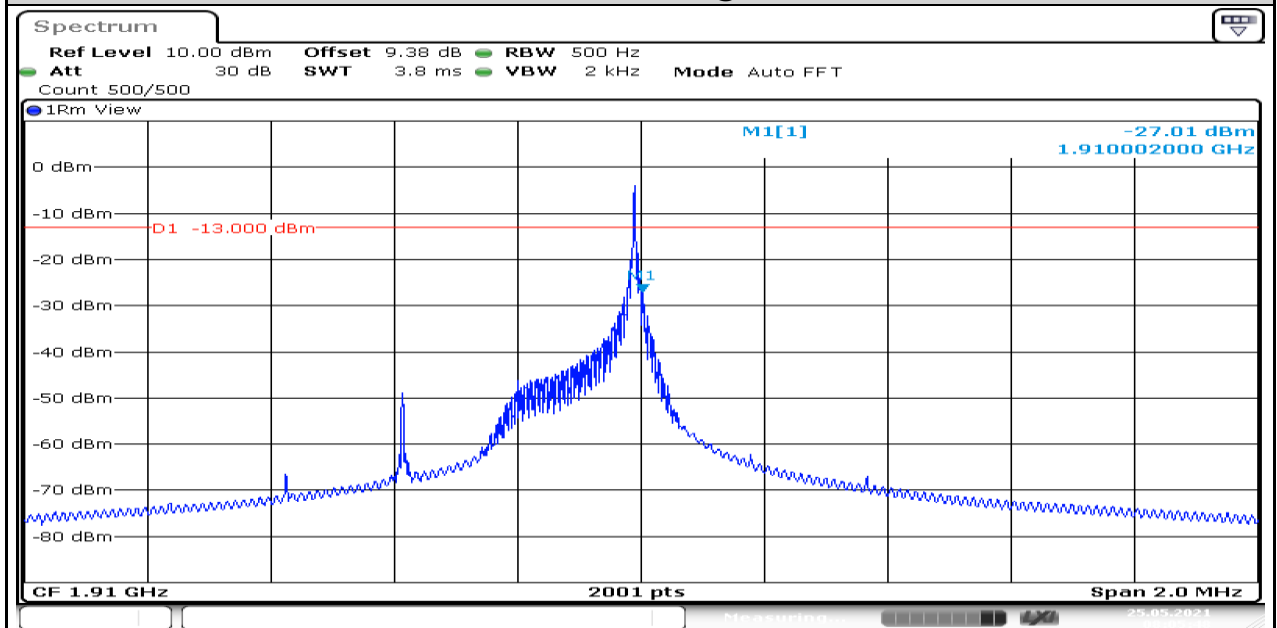
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz--48.95-PASS



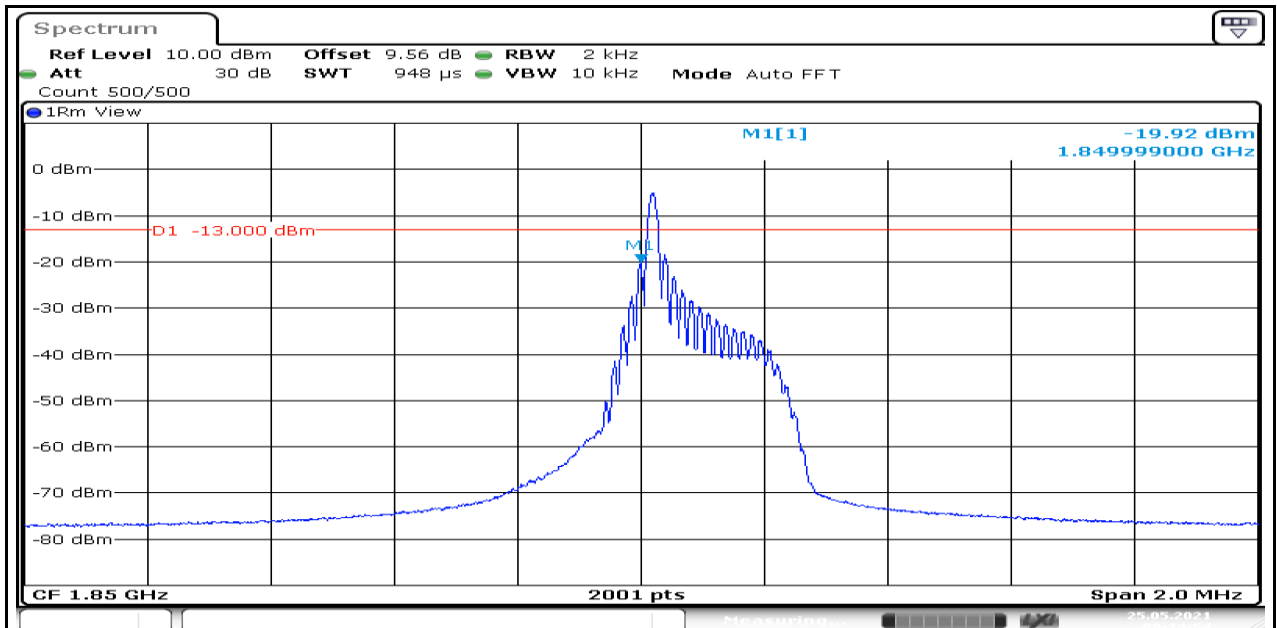
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz--48.23-PASS



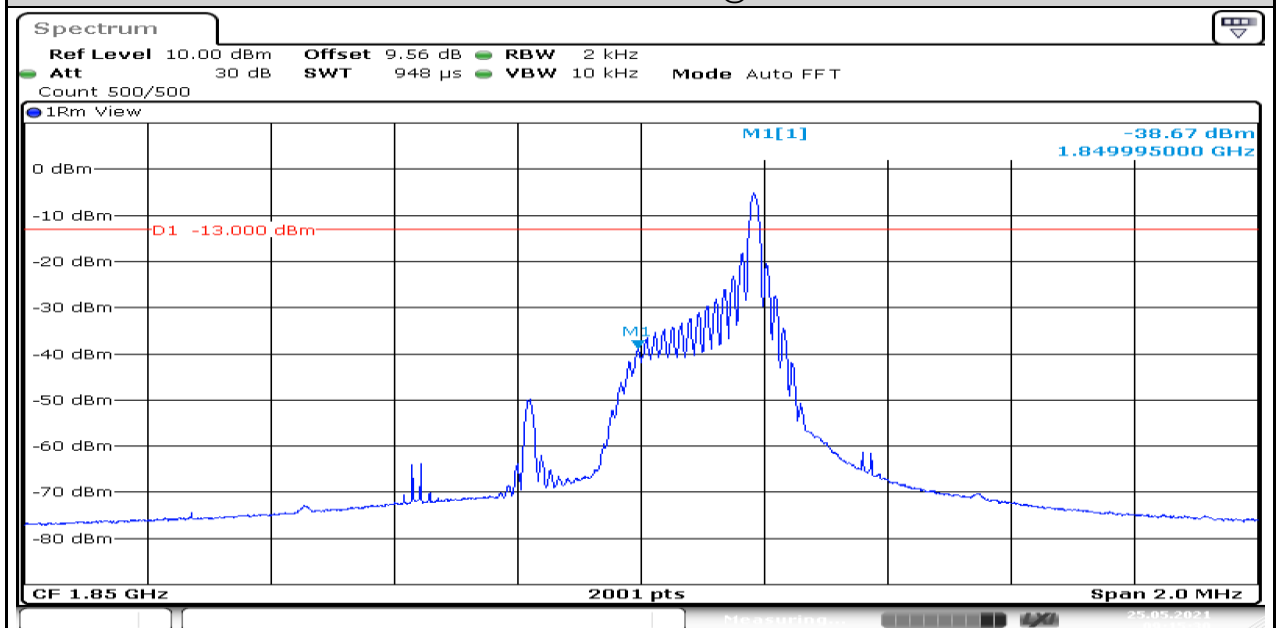
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz--27.01-PASS



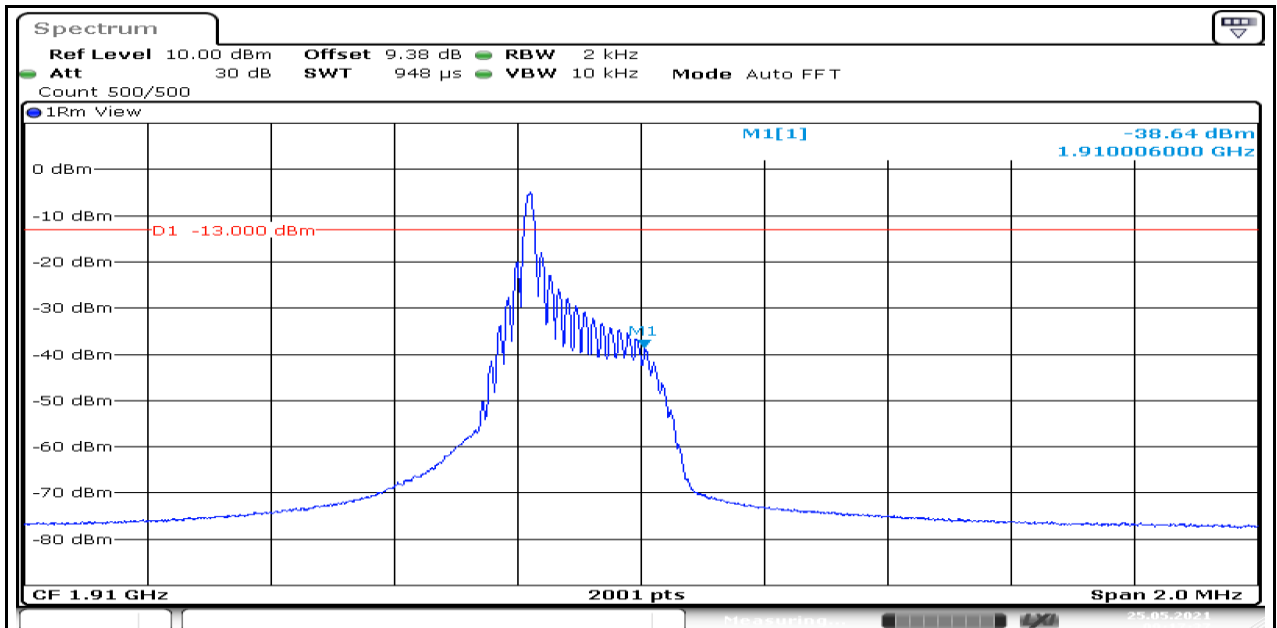
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz--19.92-PASS



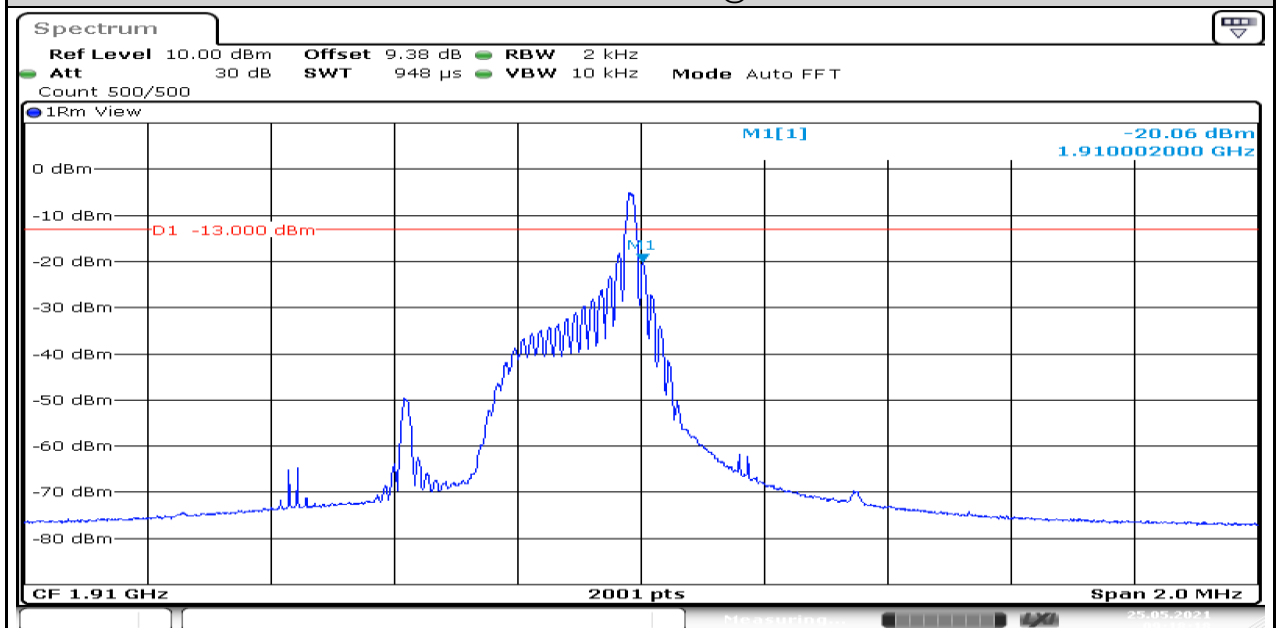
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz--38.67-PASS



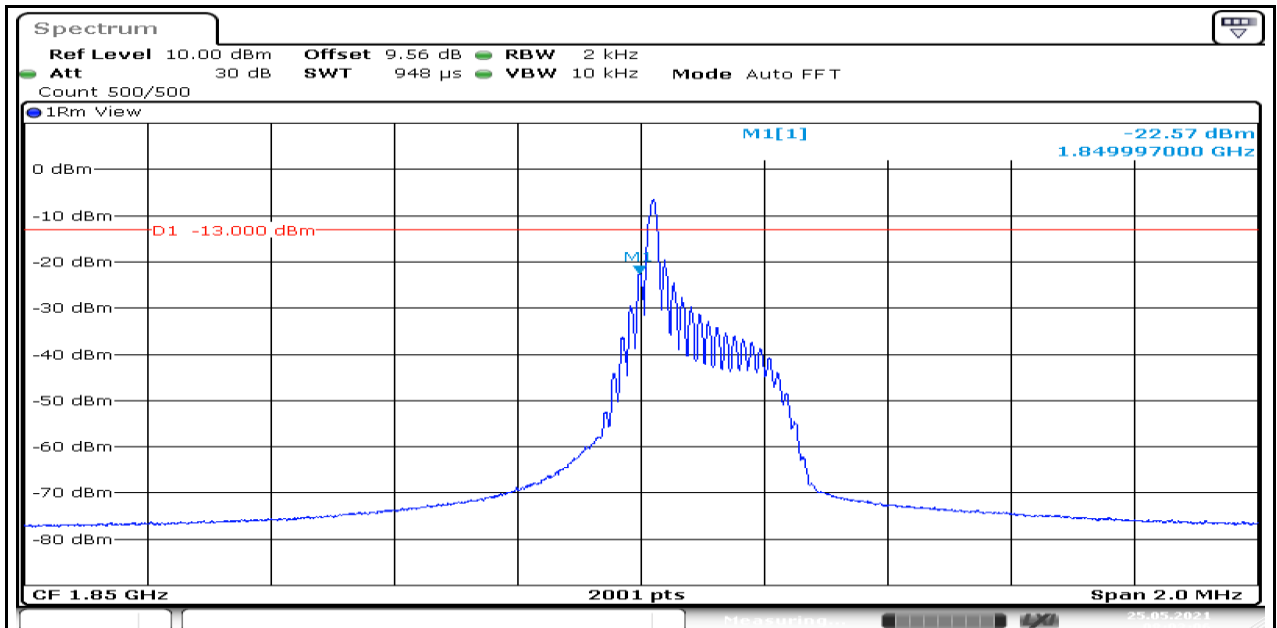
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz--38.64-PASS



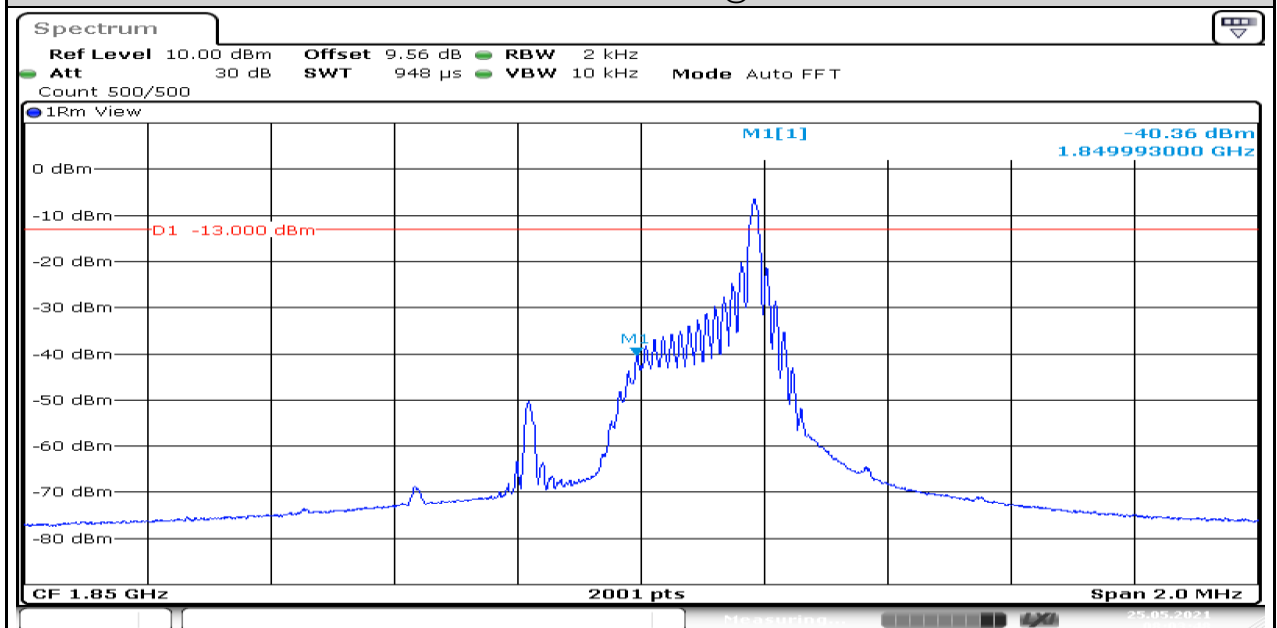
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz--20.06-PASS



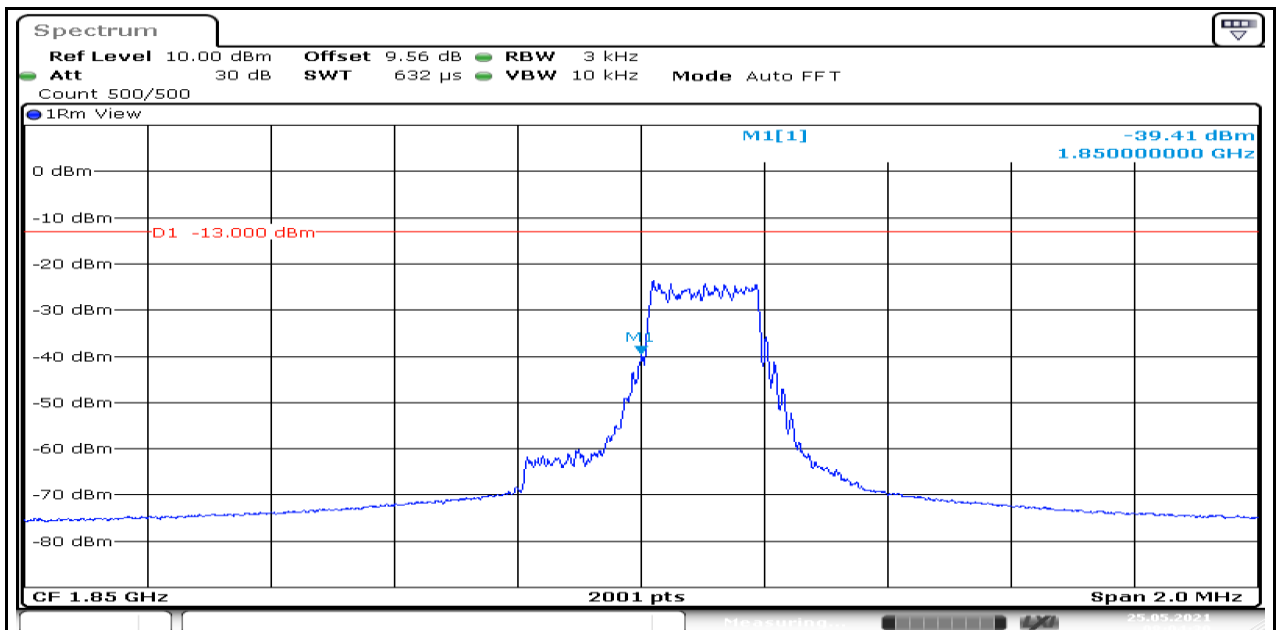
Band2-Stand-Alone-NaN-QPSK-18601-1@0-15kHz--22.57-PASS



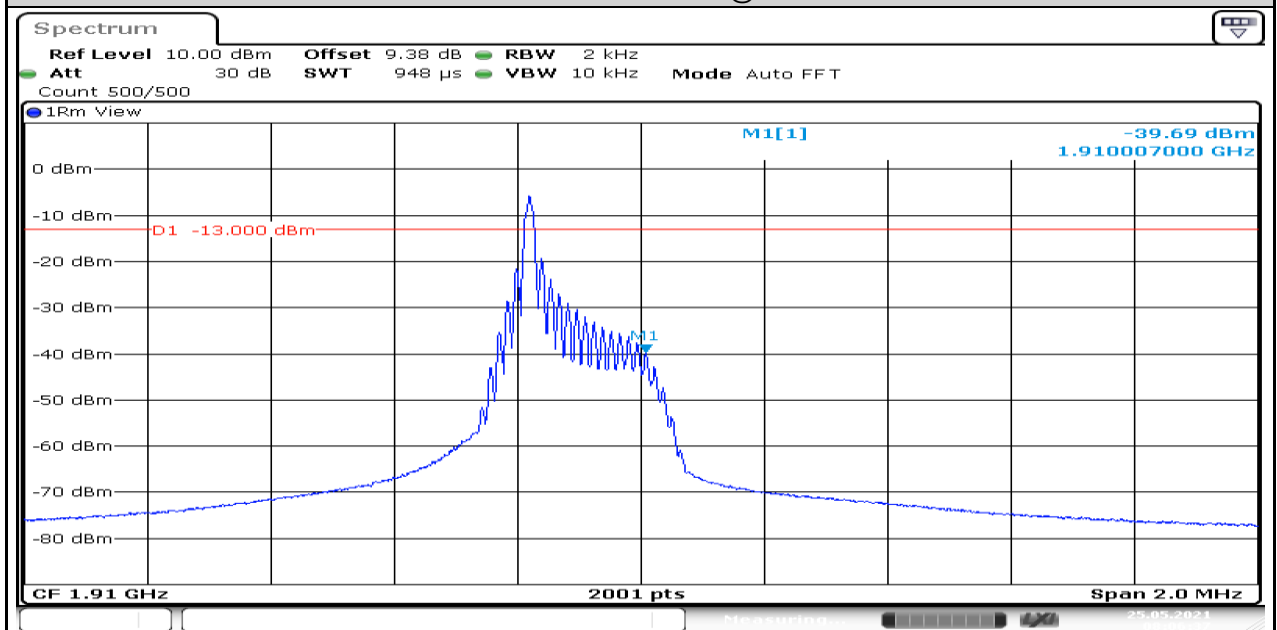
Band2-Stand-Alone-NaN-QPSK-18601-1@11-15kHz--40.36-PASS



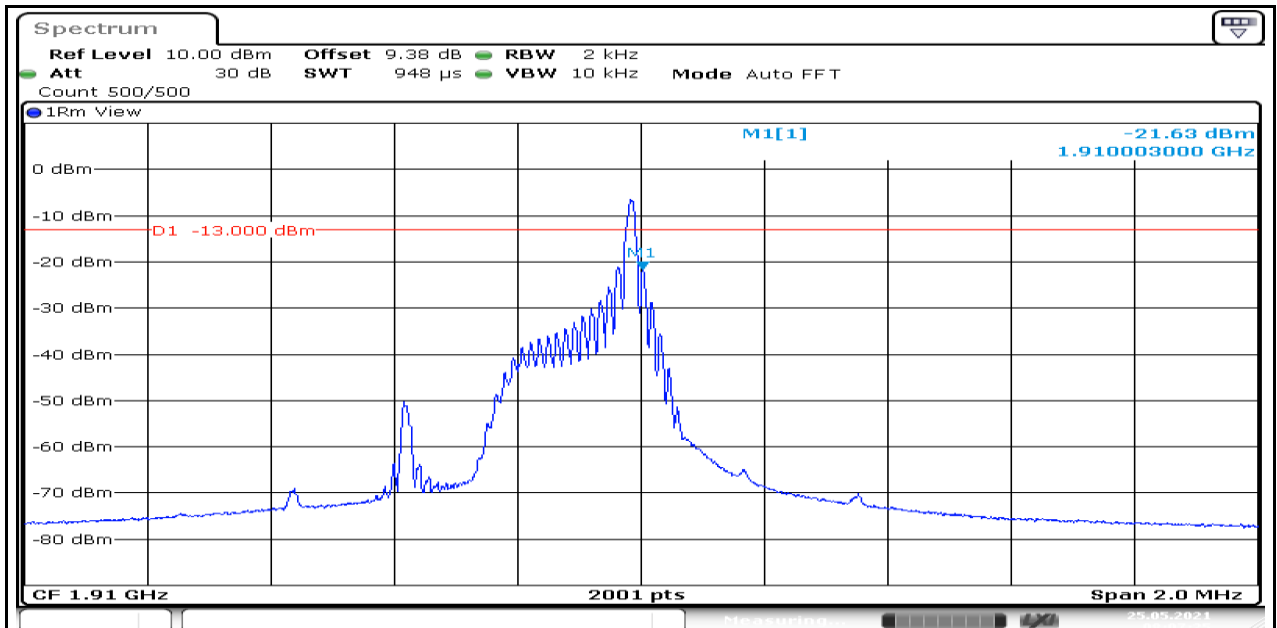
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz--39.41-PASS



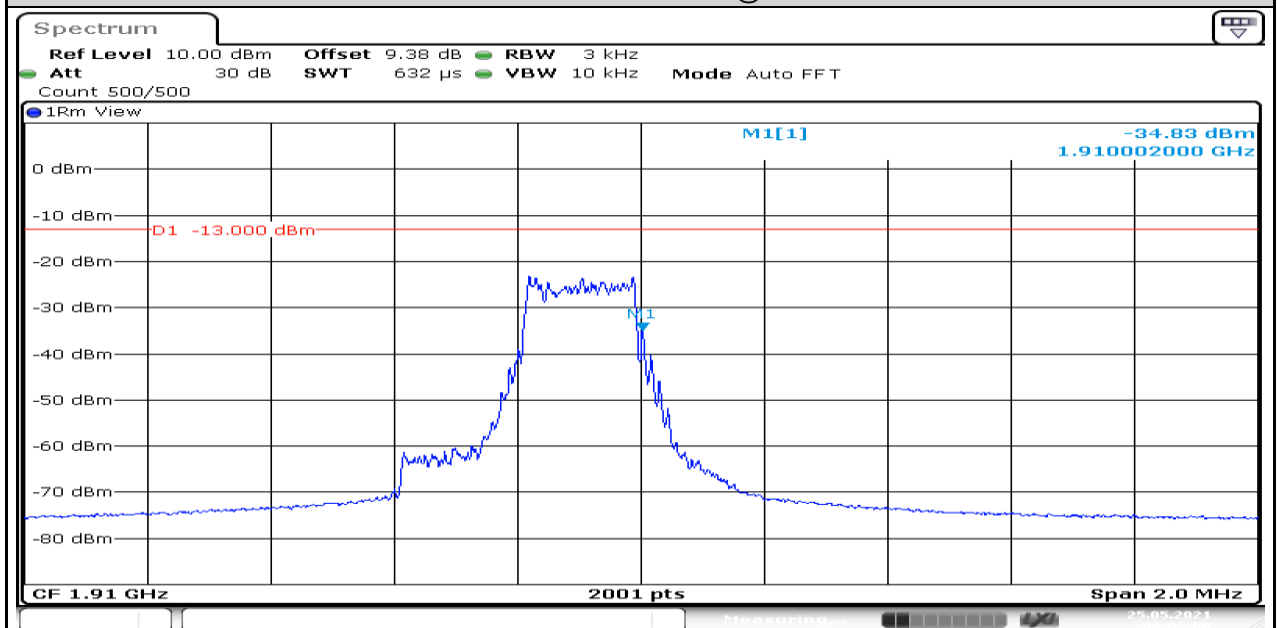
Band2-Stand-Alone-NaN-QPSK-19199-1@0-15kHz--39.69-PASS



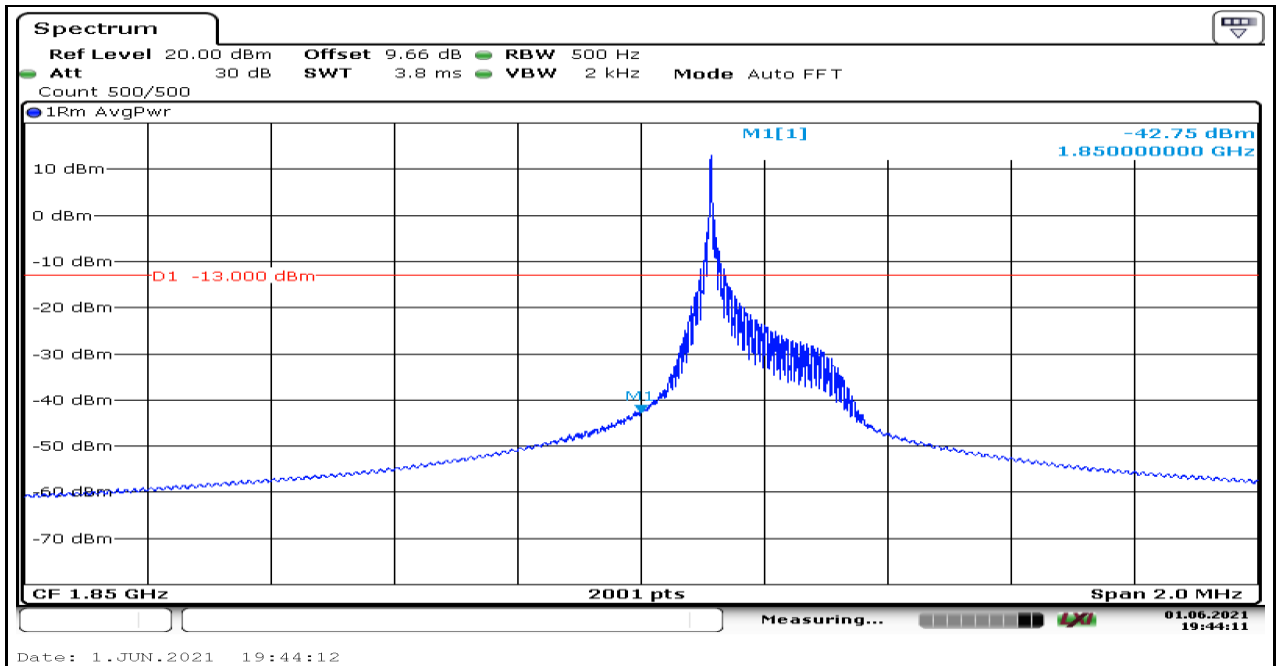
Band2-Stand-Alone-NaN-QPSK-19199-1@11-15kHz--21.63-PASS



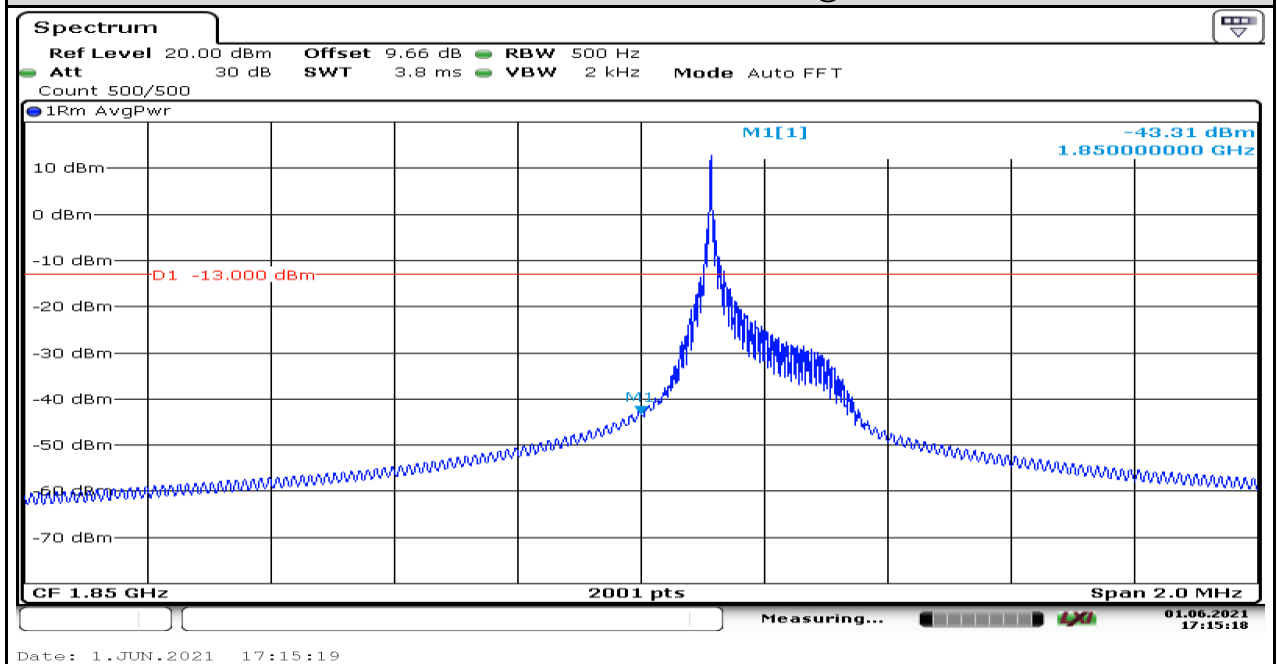
Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz--34.83-PASS



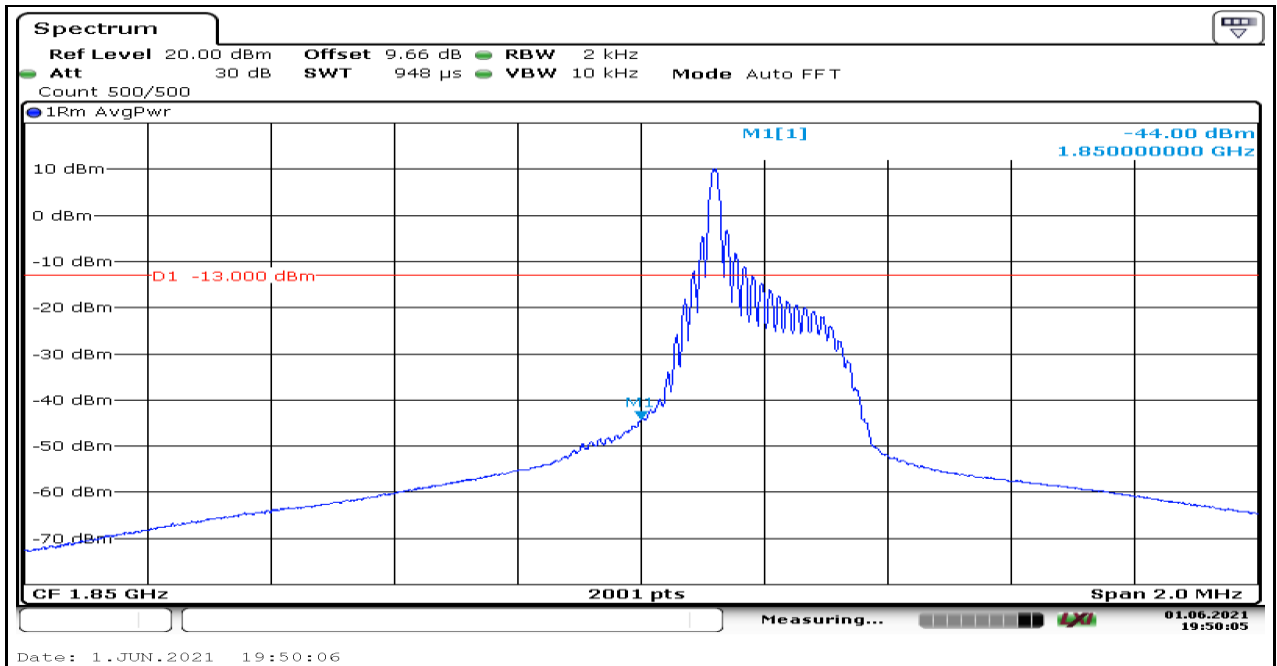
Band2-Stand-Alone-3.75kHz-NaN-BPSK-18602-1@0-42.75-PASS



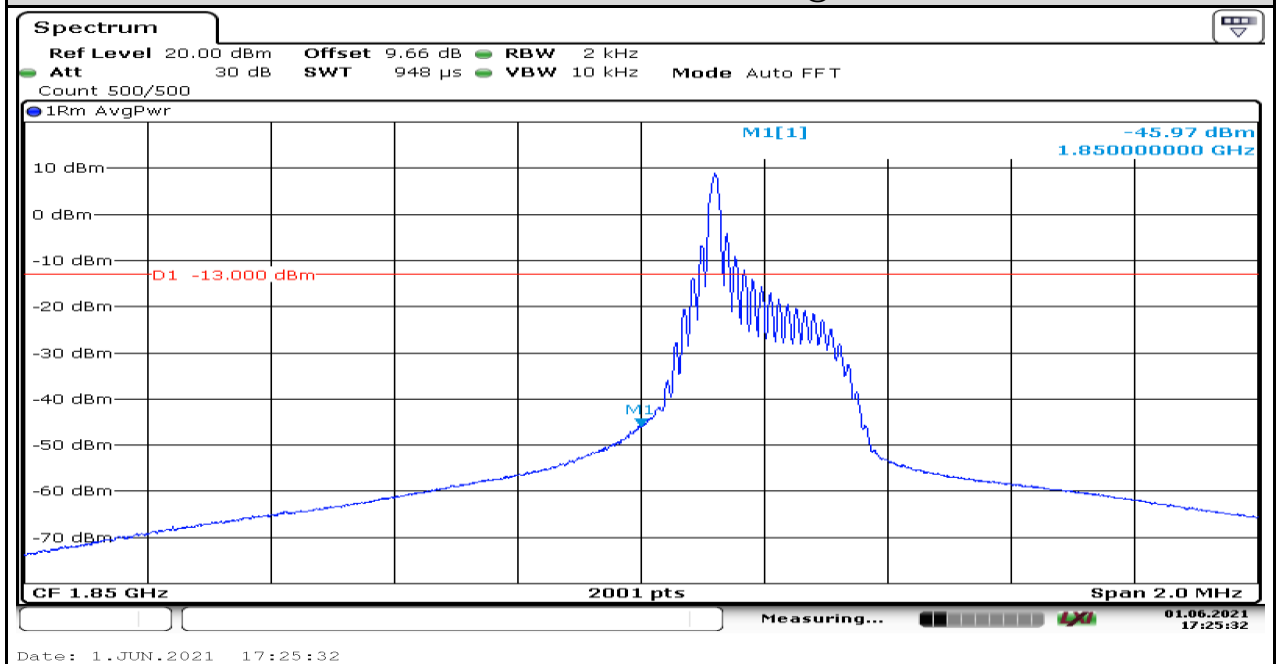
Band2-Stand-Alone-3.75kHz-NaN-QPSK-18602-1@0--43.31-PASS



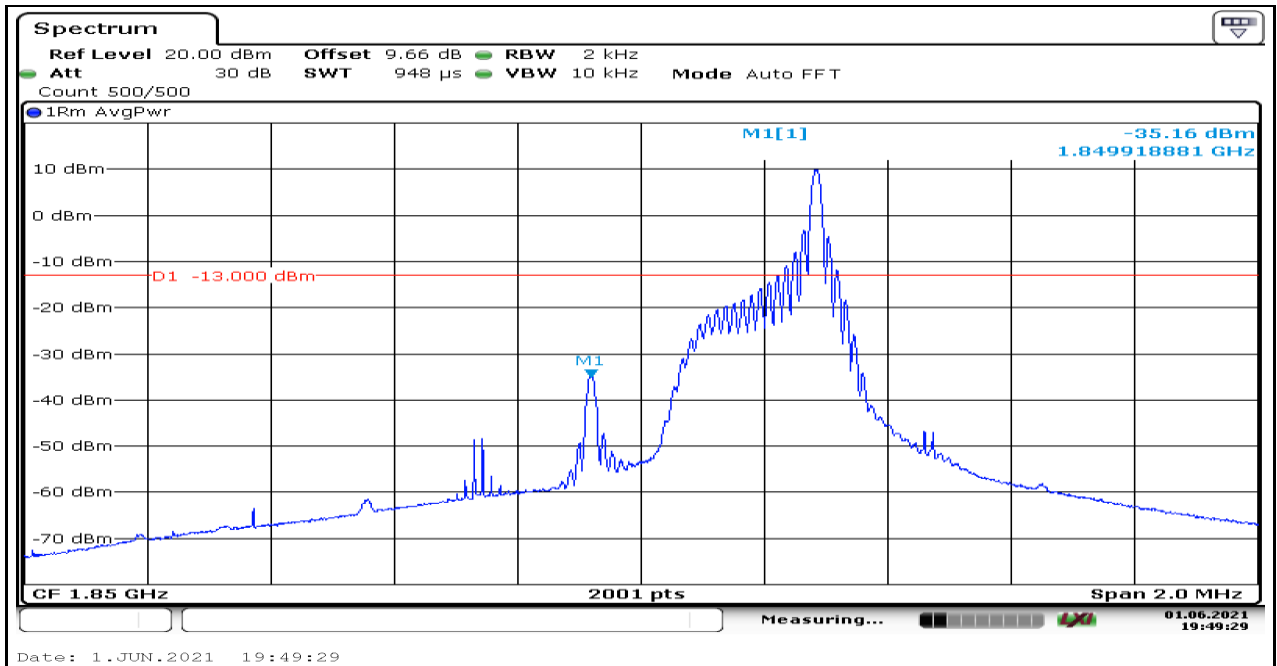
Band2-Stand-Alone-15kHz-NaN-BPSK-18602-1@0--44.00-PASS



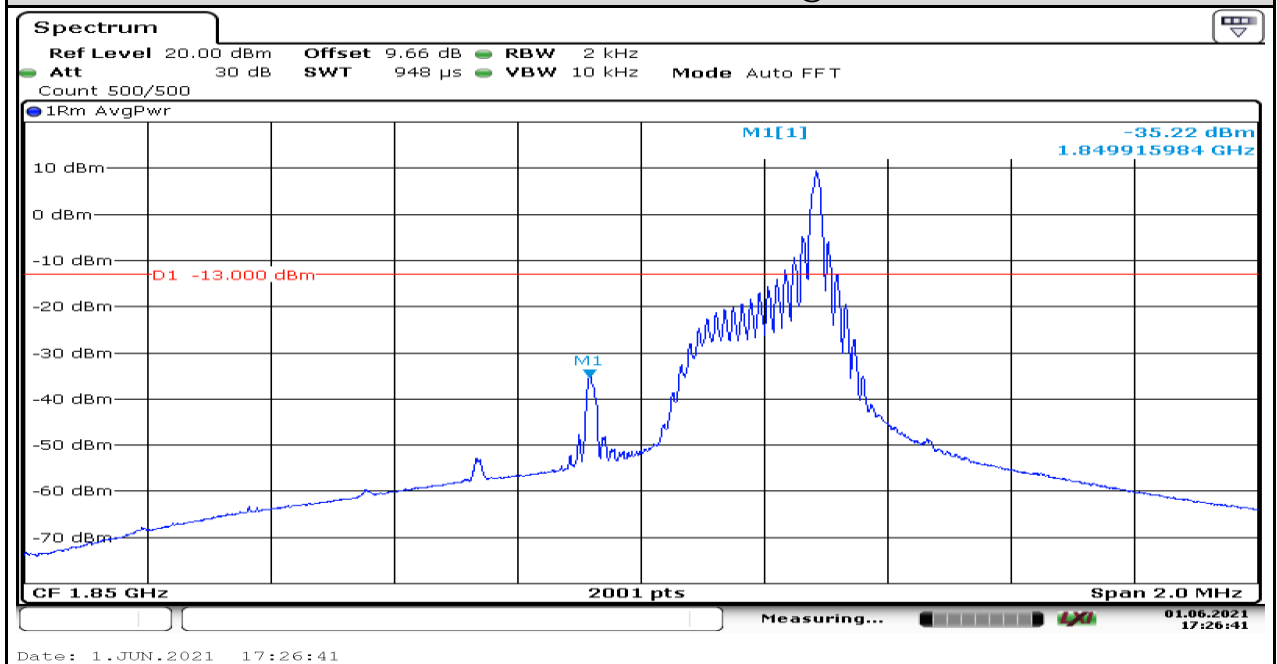
Band2-Stand-Alone-15kHz-NaN-QPSK-18602-1@0--45.97-PASS



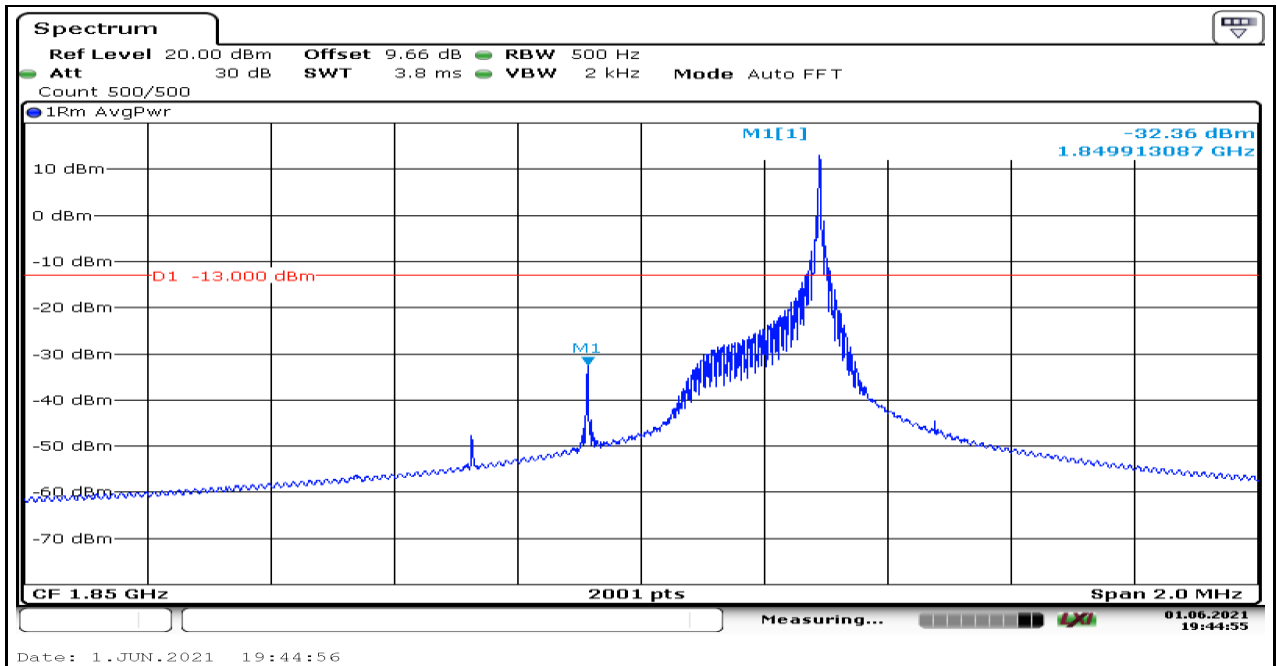
Band2-Stand-Alone-15kHz-NaN-BPSK-18602-1@11--35.16-PASS



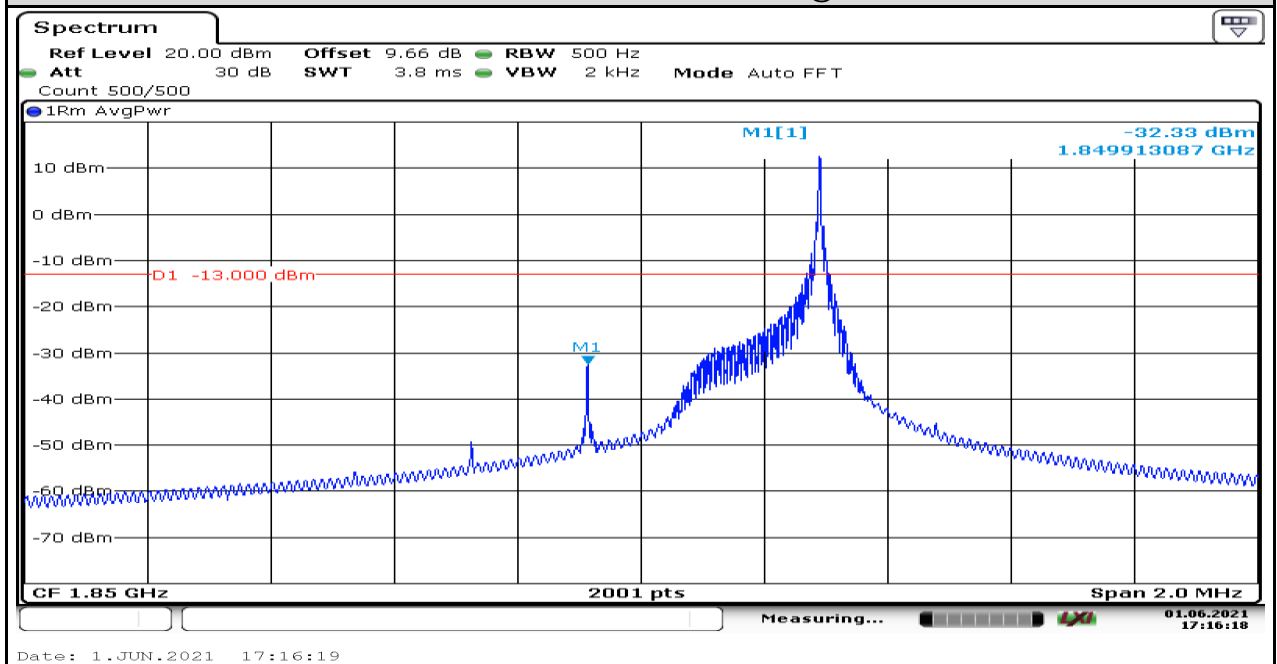
Band2-Stand-Alone-15kHz-NaN-QPSK-18602-1@11--35.22-PASS



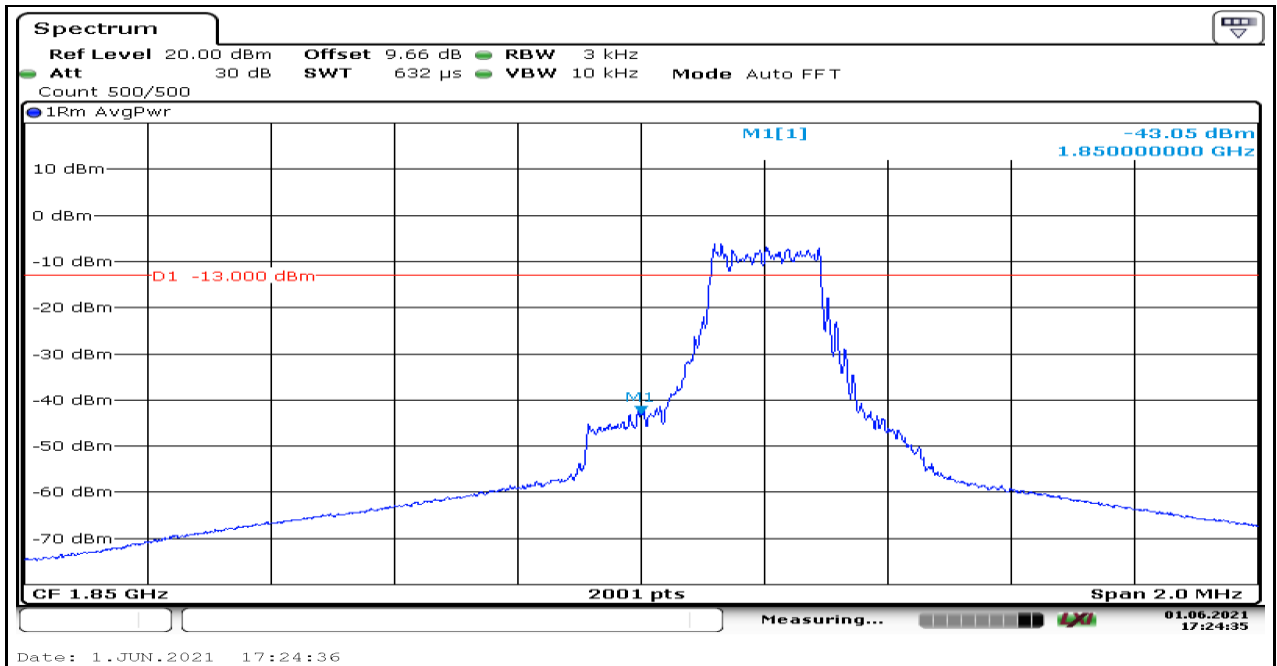
Band2-Stand-Alone-3.75kHz-NaN-BPSK-18602-1@47--32.36-PASS



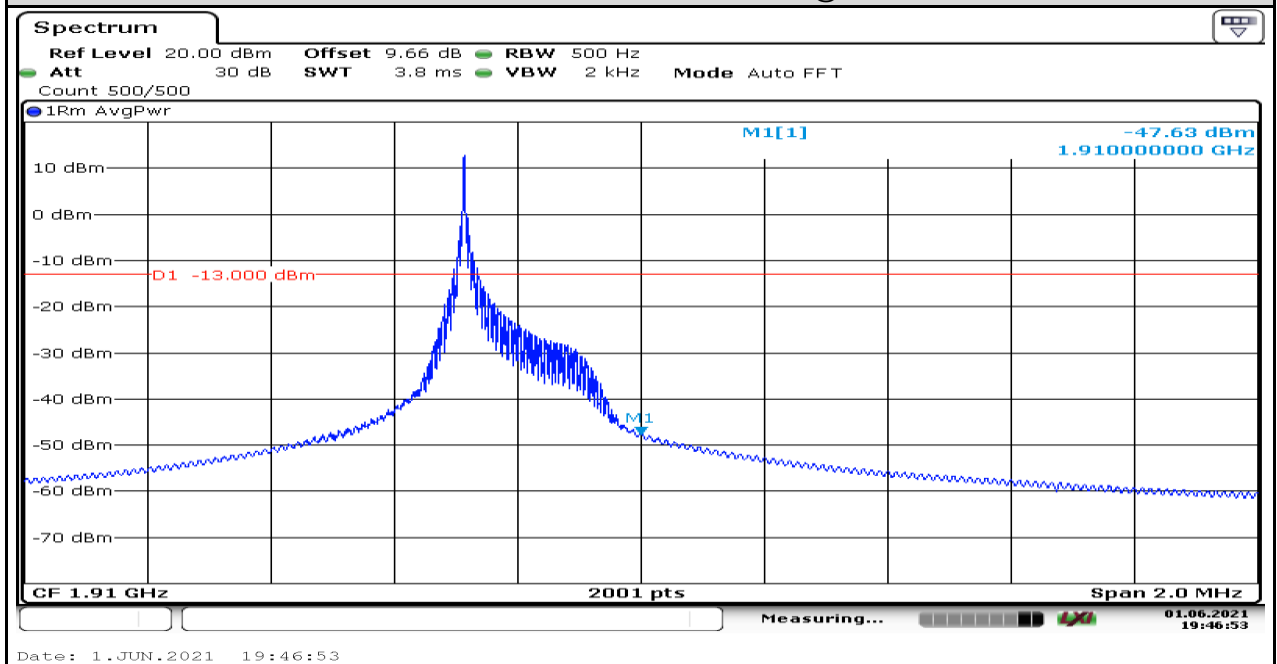
Band2-Stand-Alone-3.75kHz-NaN-QPSK-18602-1@47--32.33-PASS



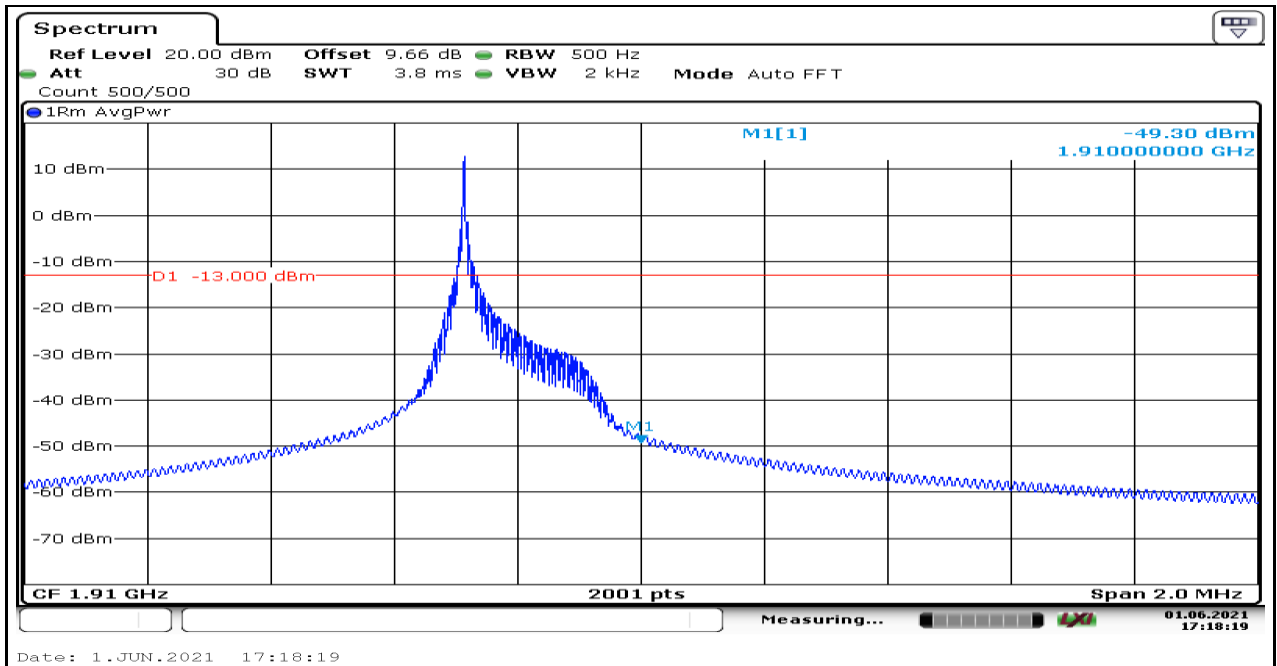
Band2-Stand-Alone-15kHz-NaN-QPSK-18602-12@0--43.05-PASS



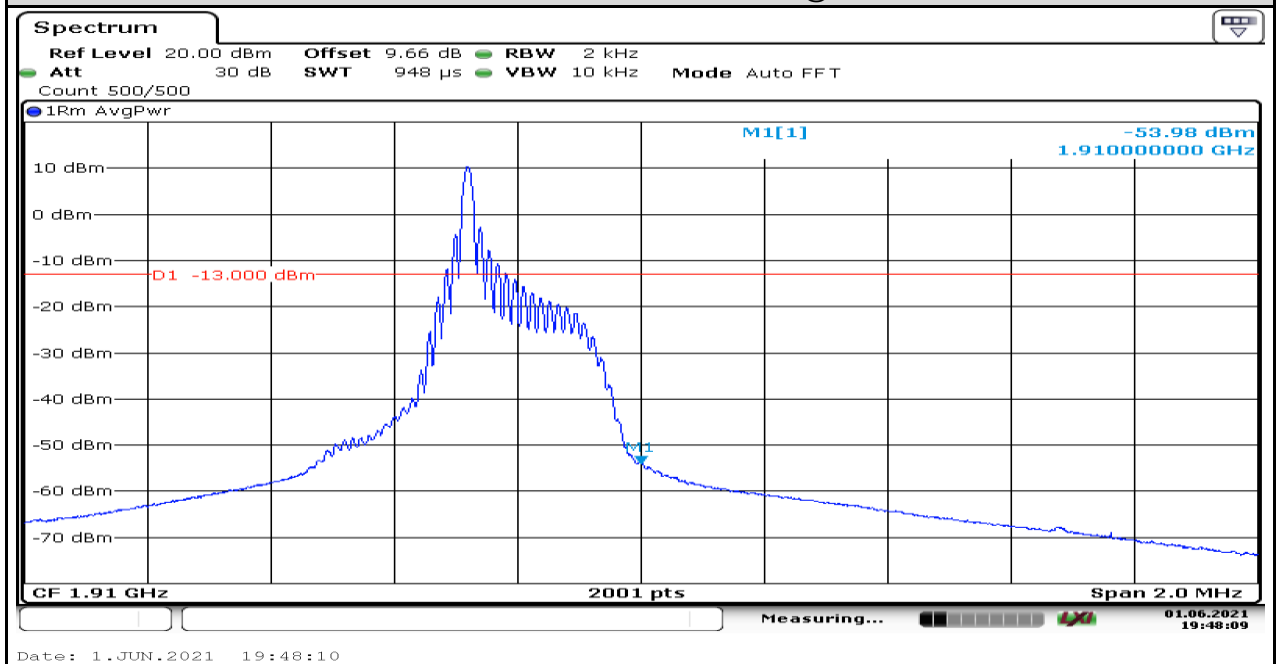
Band2-Stand-Alone-3.75kHz-NaN-BPSK-19198-1@0-47.63-PASS



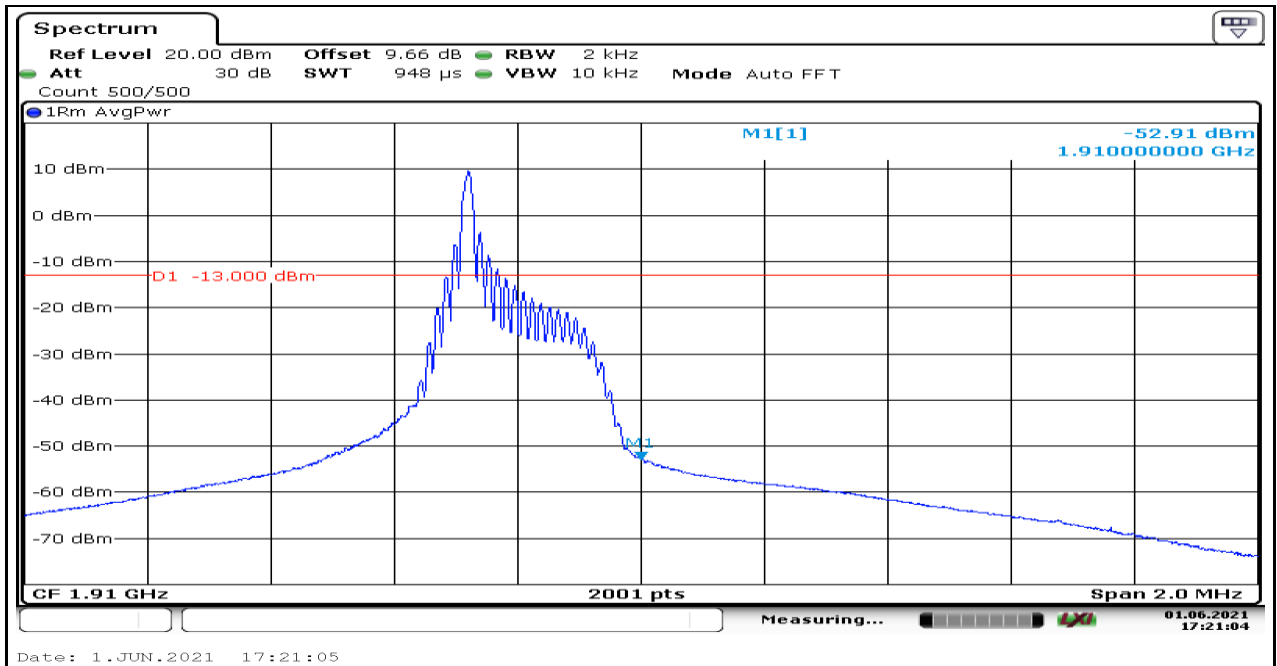
Band2-Stand-Alone-3.75kHz-NaN-QPSK-19198-1@0-49.30-PASS



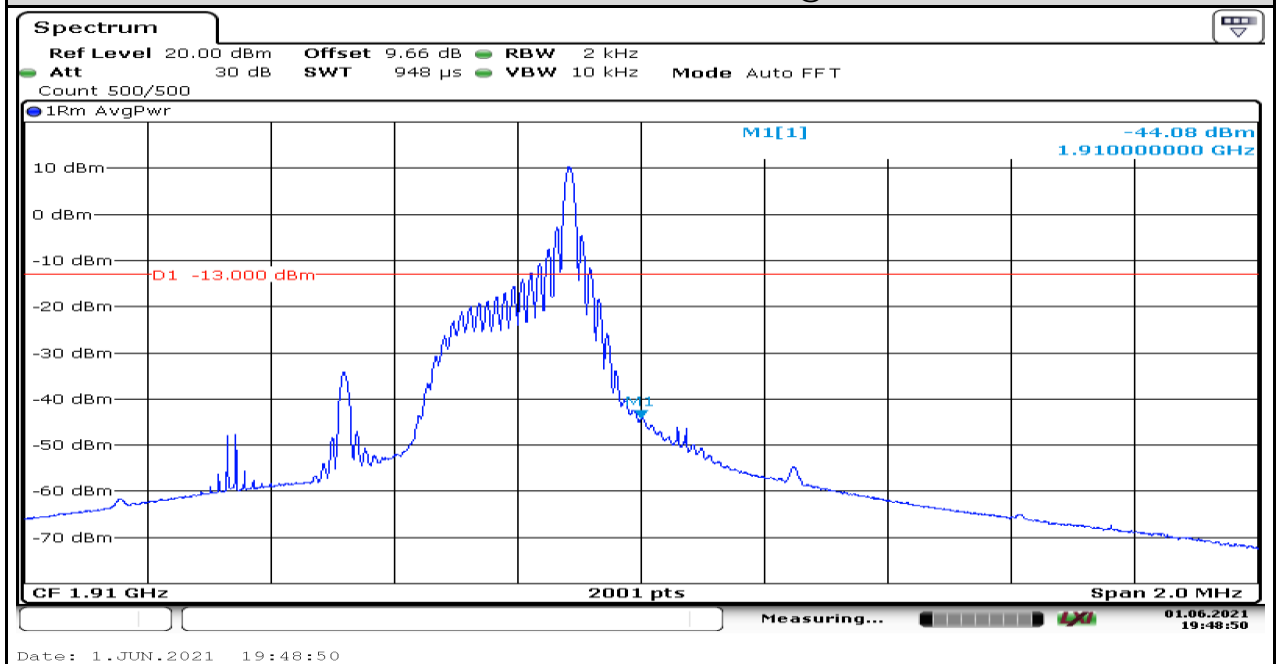
Band2-Stand-Alone-15kHz-NaN-BPSK-19198-1@0--53.98-PASS



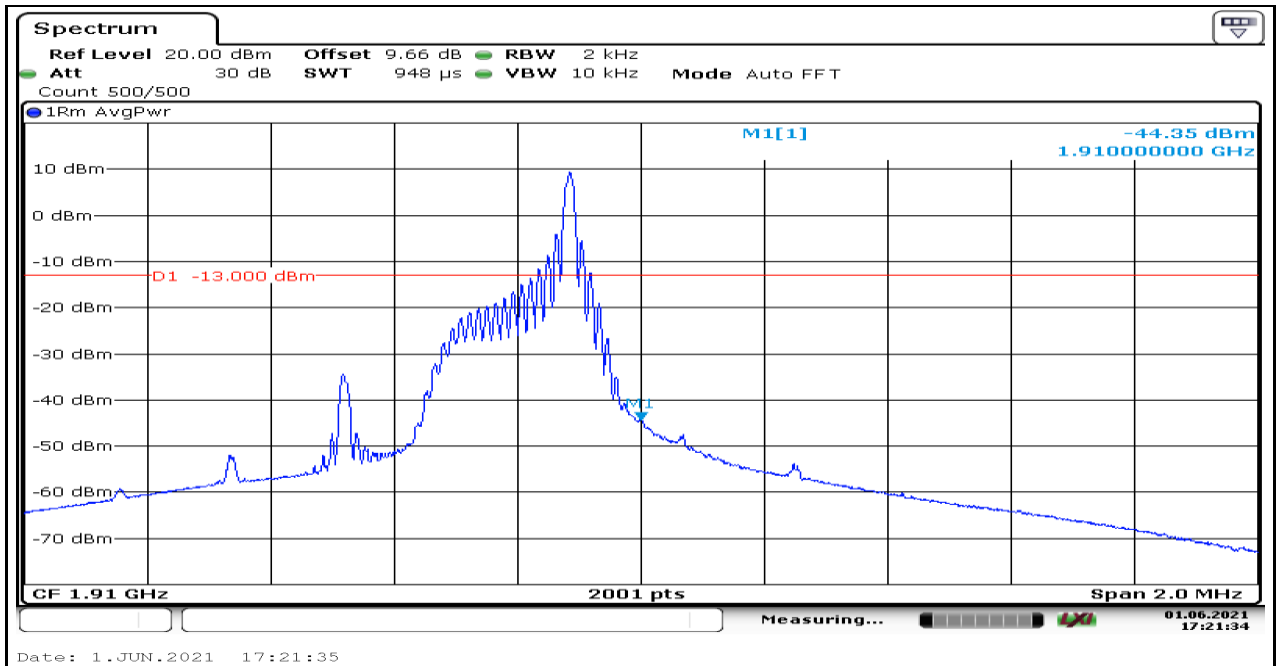
Band2-Stand-Alone-15kHz-NaN-QPSK-19198-1@0--52.91-PASS



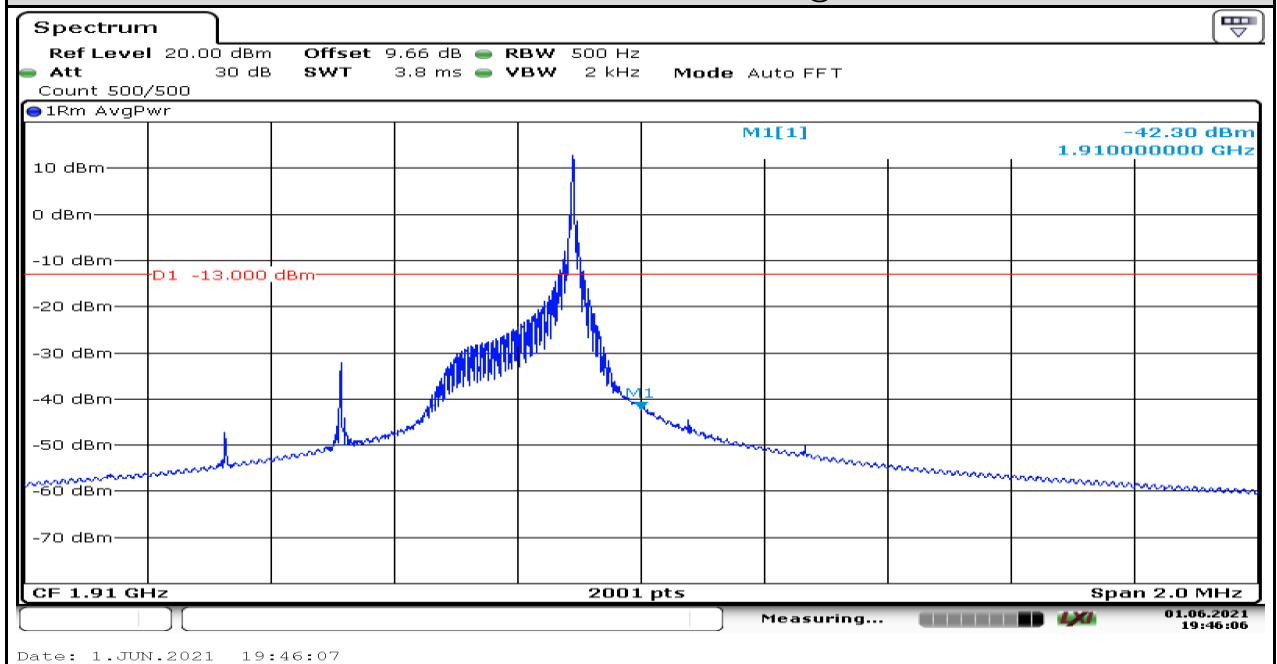
Band2-Stand-Alone-15kHz-NaN-BPSK-19198-1@11--44.08-PASS



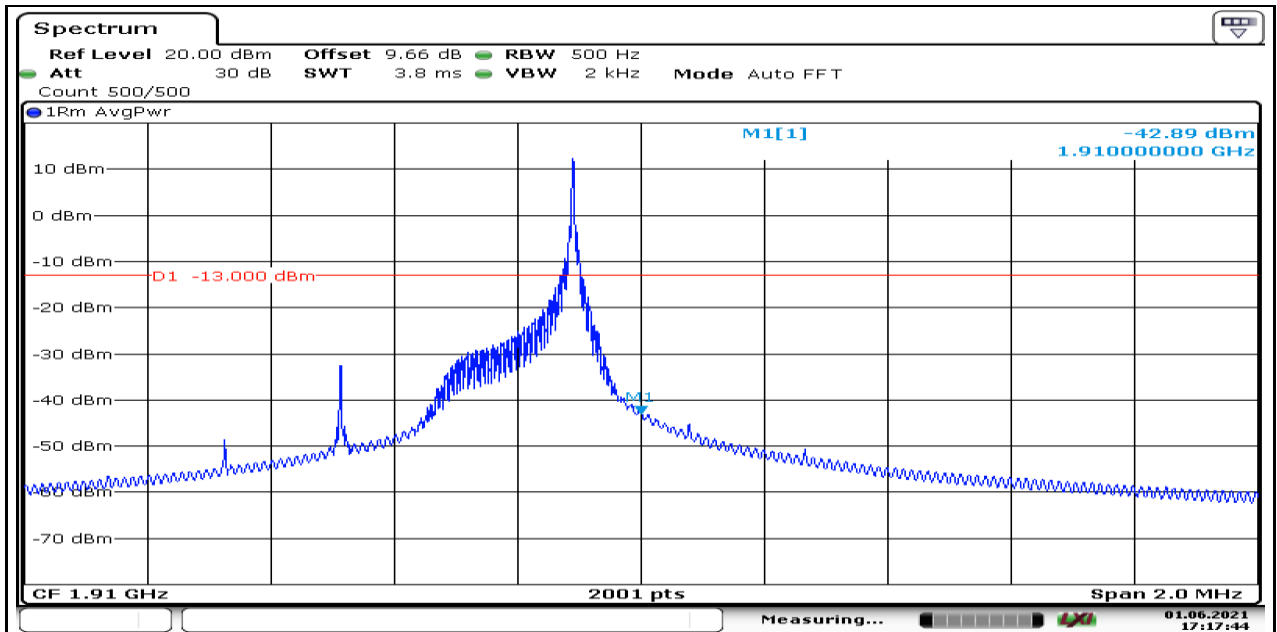
Band2-Stand-Alone-15kHz-NaN-QPSK-19198-1@11--44.35-PASS



Band2-Stand-Alone-3.75kHz-NaN-BPSK-19198-1@47--42.30-PASS

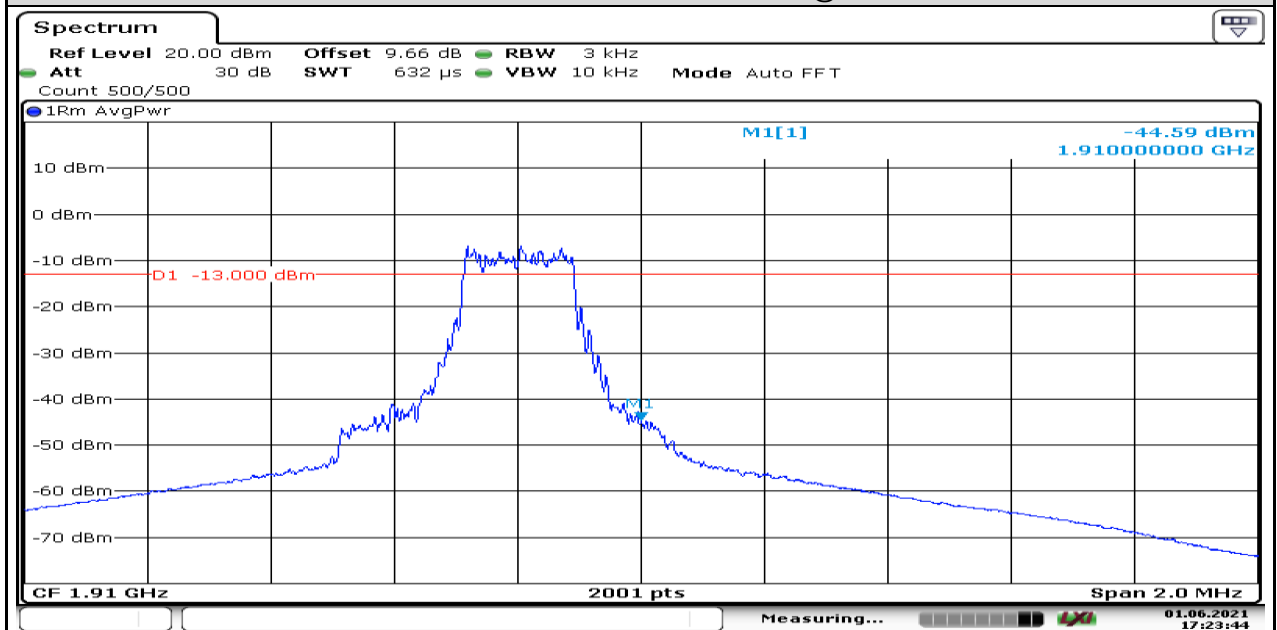


Band2-Stand-Alone-3.75kHz-NaN-QPSK-19198-1@47--42.89-PASS



Date: 1.JUN.2021 17:17:45

Band2-Stand-Alone-15kHz-NaN-QPSK-19198-12@0--44.59-PASS



Date: 1.JUN.2021 17:23:45

APPENDIX A.5: CONDUCTED SPURIOUS EMISSION FOR NB-IOT

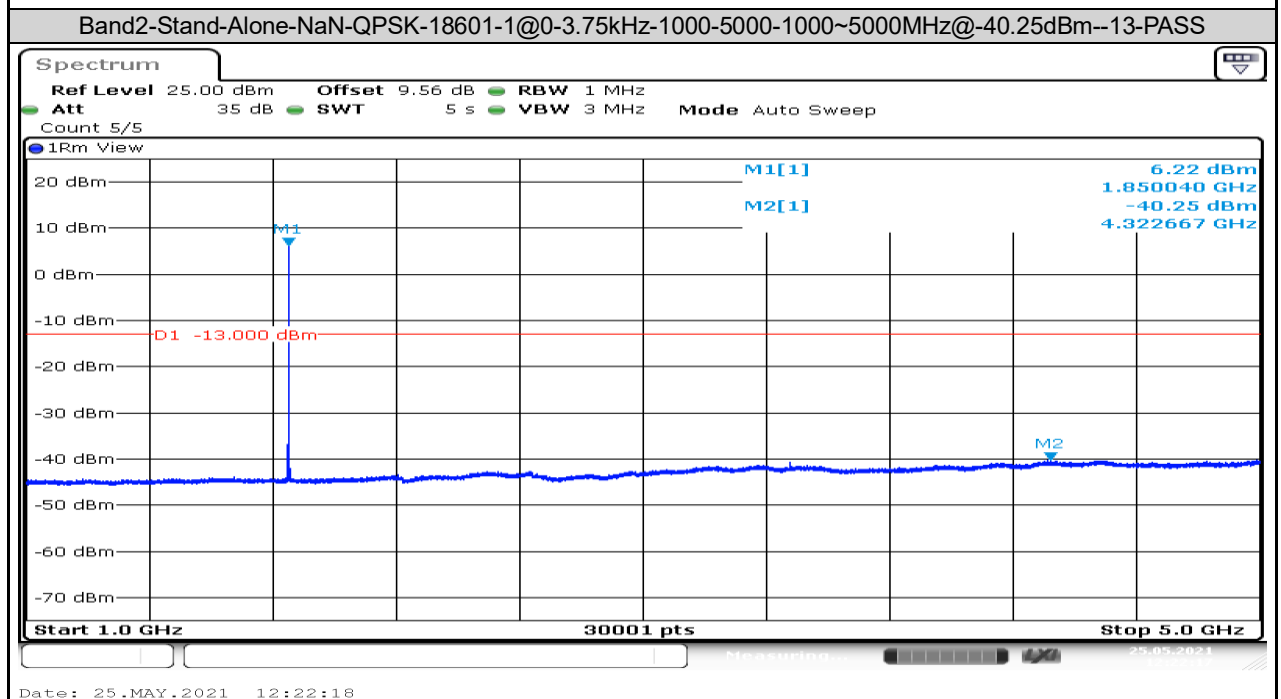
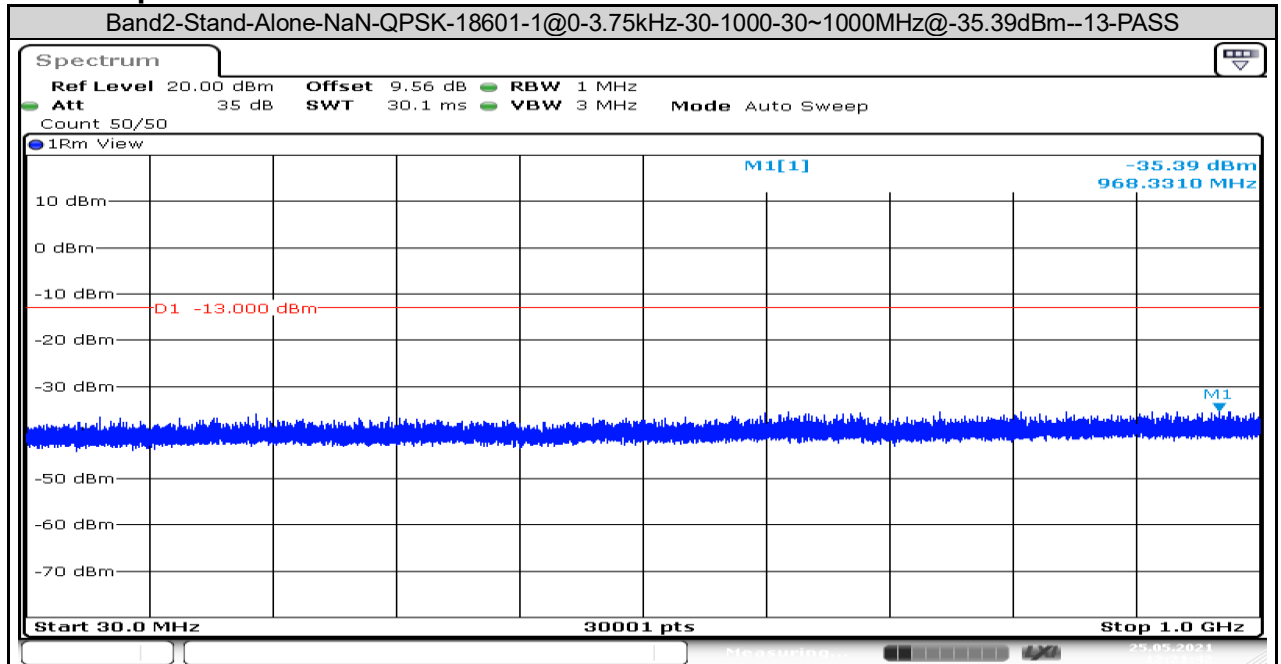
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	30~1000MHz@-35.39dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	1000~5000MHz@-40.25dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	5000~12000MHz@-53.33dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	12000~26500MHz@-49.44dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	30~1000MHz@-34.15dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	1000~5000MHz@-40.16dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	5000~12000MHz@-53.07dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	12000~26500MHz@-49.36dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	30~1000MHz@-35.54dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	1000~5000MHz@-35.44dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	5000~12000MHz@-53.31dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	12000~26500MHz@-49.6dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	30~1000MHz@-34.98dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	1000~5000MHz@-34.93dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	5000~12000MHz@-53.46dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	12000~26500MHz@-49.57dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	30~1000MHz@-34.7dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	1000~5000MHz@-40.5dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	5000~12000MHz@-53.55dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	12000~26500MHz@-49.57dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	30~1000MHz@-35.57dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	1000~5000MHz@-40.45dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	5000~12000MHz@-53.49dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	12000~26500MHz@-49.76dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	30~1000MHz@-35.3dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	1000~5000MHz@-39.96dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	5000~12000MHz@-53.28dBm	-13	PASS

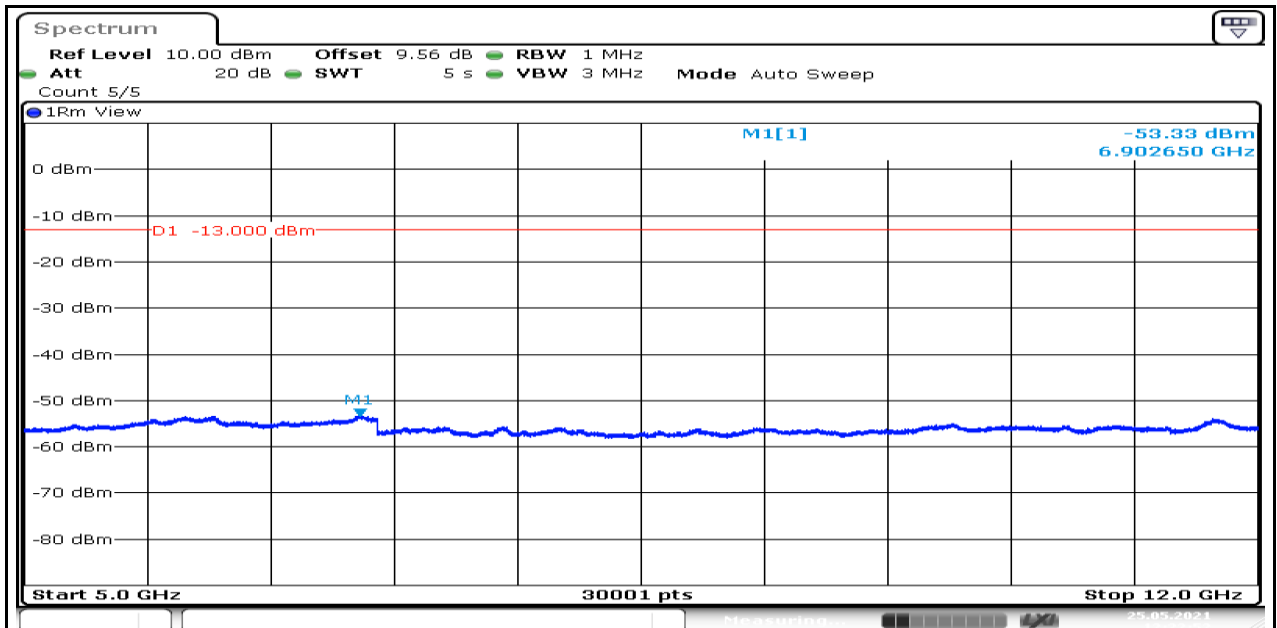
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	12000~26500MHz@-49.34dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	30~1000MHz@-35.08dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	1000~5000MHz@-39.94dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	5000~12000MHz@-53.29dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	12000~26500MHz@-49.16dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	30~1000MHz@-34.99dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	1000~5000MHz@-36.14dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	5000~12000MHz@-53.45dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@0	12000~26500MHz@-49.42dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	30~1000MHz@-35.53dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	1000~5000MHz@-36.44dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	5000~12000MHz@-53.27dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18900	1@11	12000~26500MHz@-49.56dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	30~1000MHz@-35.08dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	1000~5000MHz@-40.32dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	5000~12000MHz@-53.44dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	12000~26500MHz@-49.71dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	30~1000MHz@-34.8dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	1000~5000MHz@-40.35dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	5000~12000MHz@-53.32dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	12000~26500MHz@-49.63dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	30~1000MHz@-34.57dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	1000~5000MHz@-39.98dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	5000~12000MHz@-53.17dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	12000~26500MHz@-49.43dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	12@0	30~1000MHz@-34.89dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	12@0	1000~5000MHz@-36.92dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	12@0	5000~12000MHz@-53.44dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	12@0	12000~26500MHz@-49.64dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	30~1000MHz@-35.41dBm	-13	PASS

Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	1000~5000MHz@-40.45dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	5000~12000MHz@-53.5dBm	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	12000~26500MHz@-49.57dBm	-13	PASS

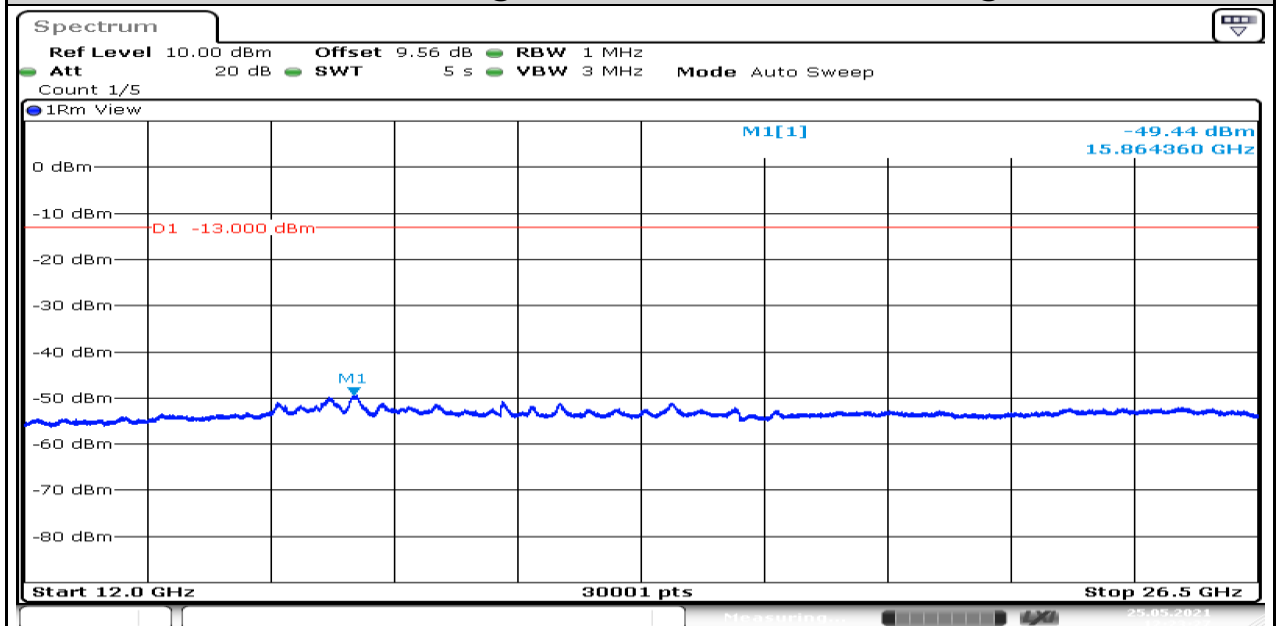
Test Graphs



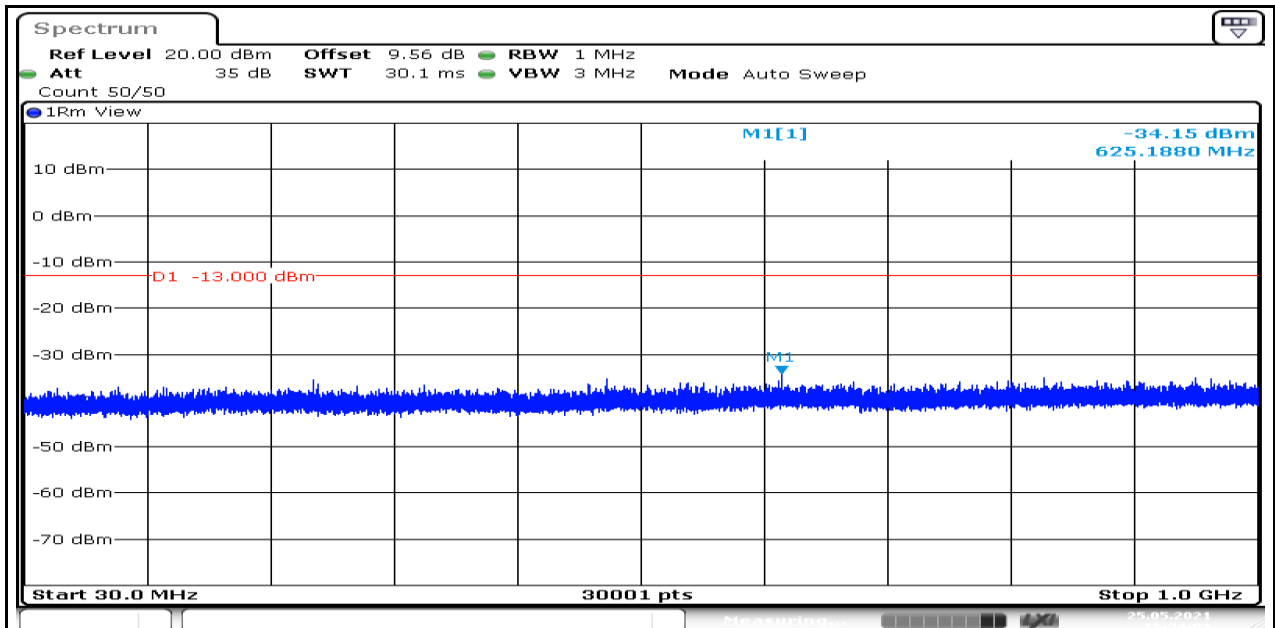
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-5000-12000-5000~12000MHz@-53.33dBm--13-PASS



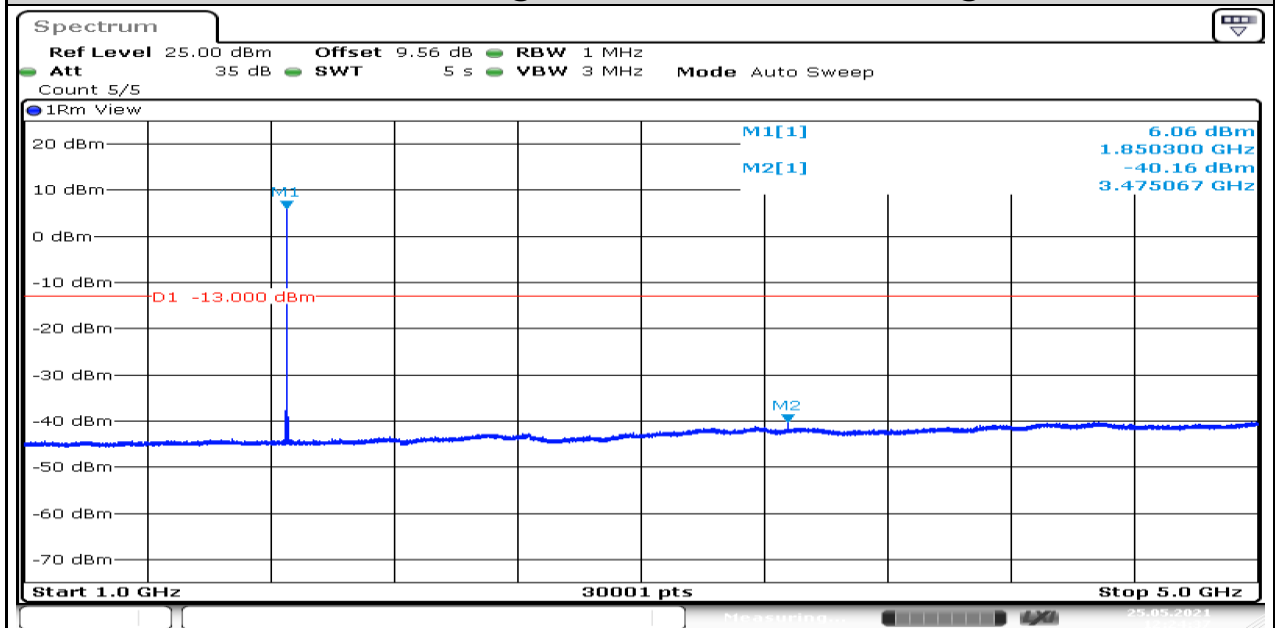
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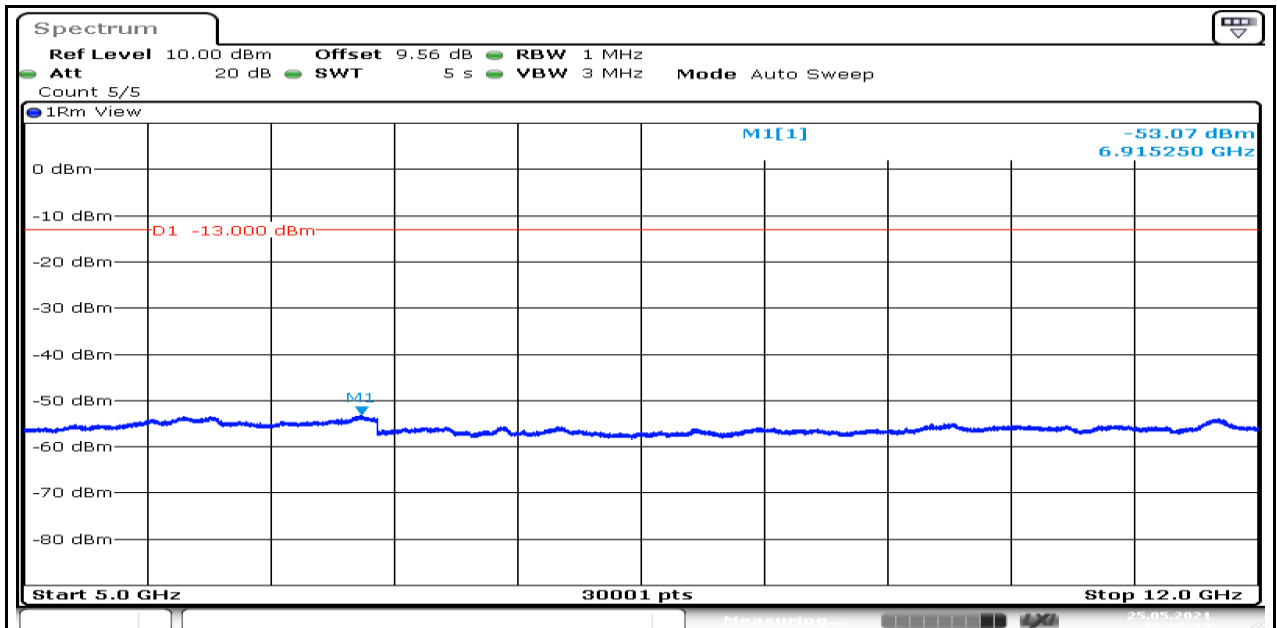
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Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-1000-5000-1000~5000MHz@-40.16dBm--13-PASS

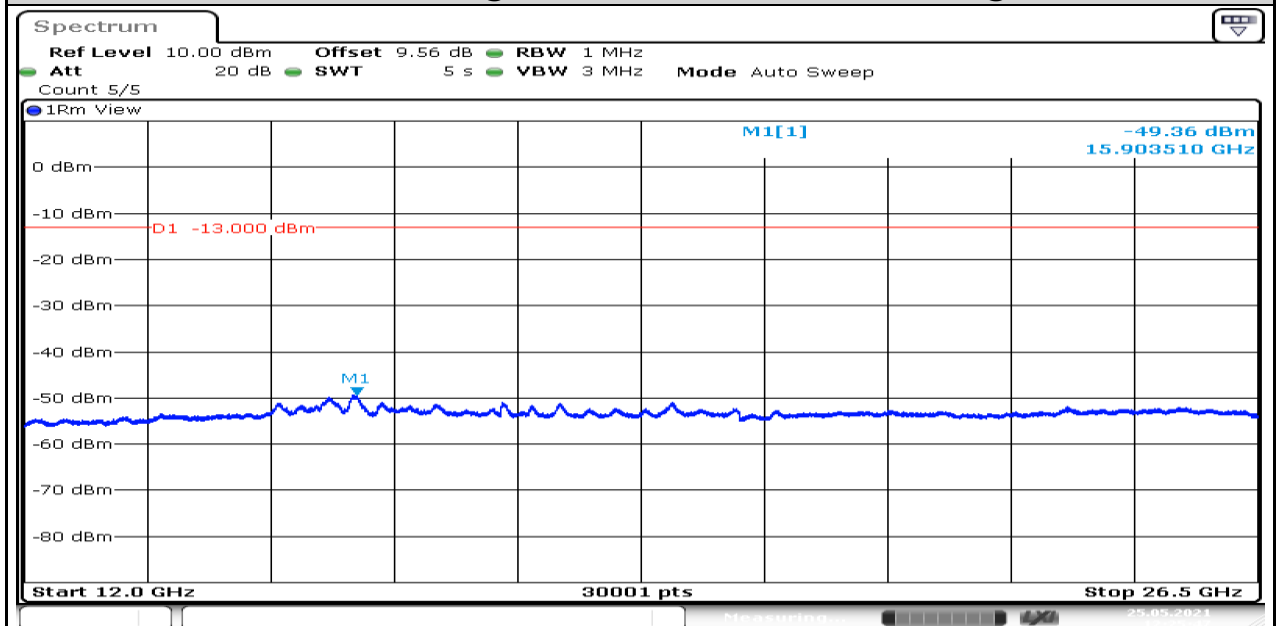


Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-5000-12000-5000~12000MHz@-53.07dBm--13-PASS



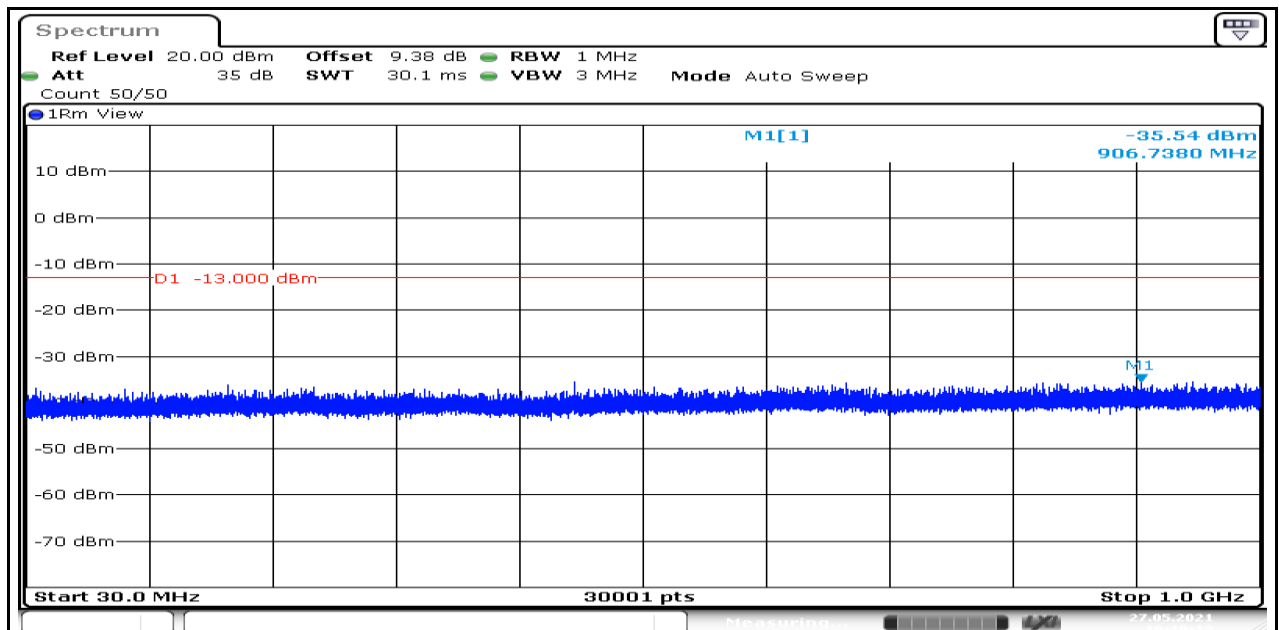
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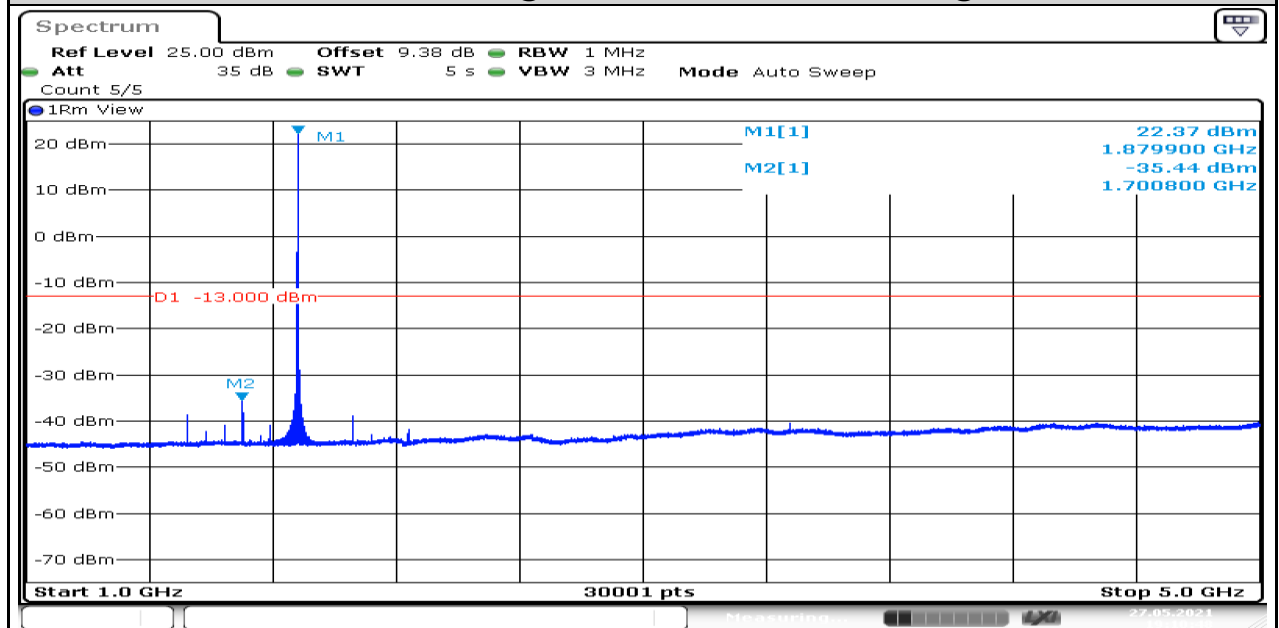


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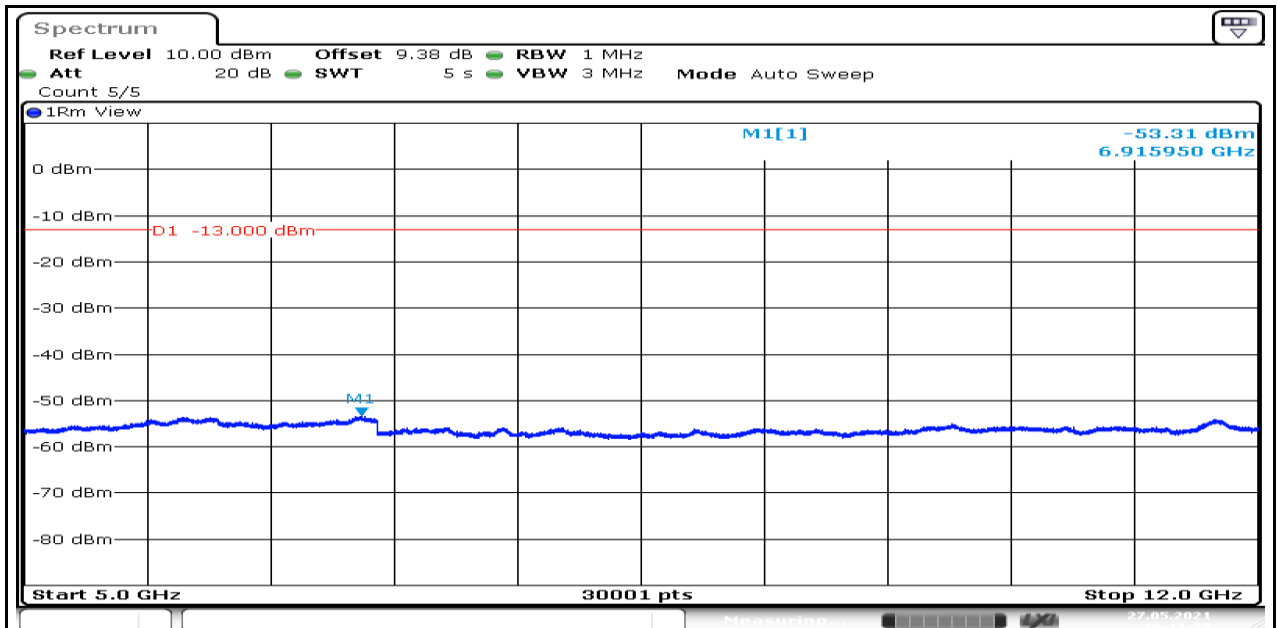
Band2-Stand-Alone-NaN-QPSK-18900-1@0-3.75kHz-30-1000-30~1000MHz@-35.54dBm--13-PASS



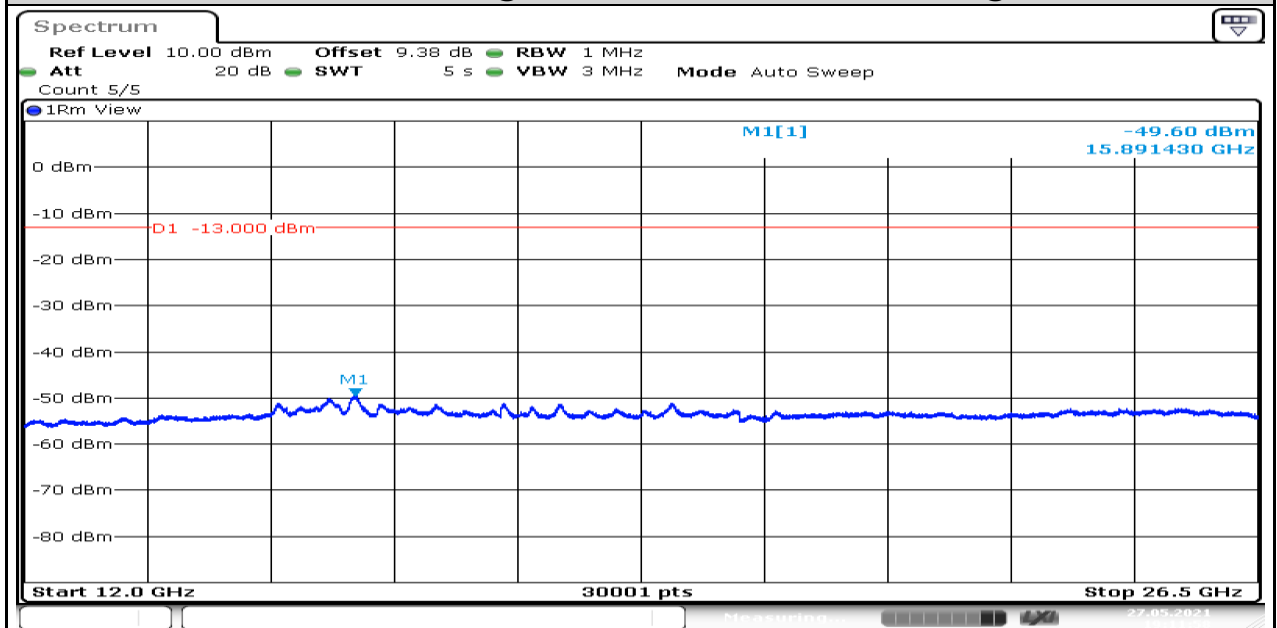
Band2-Stand-Alone-NaN-QPSK-18900-1@0-3.75kHz-1000-5000-1000~5000MHz@-35.44dBm--13-PASS



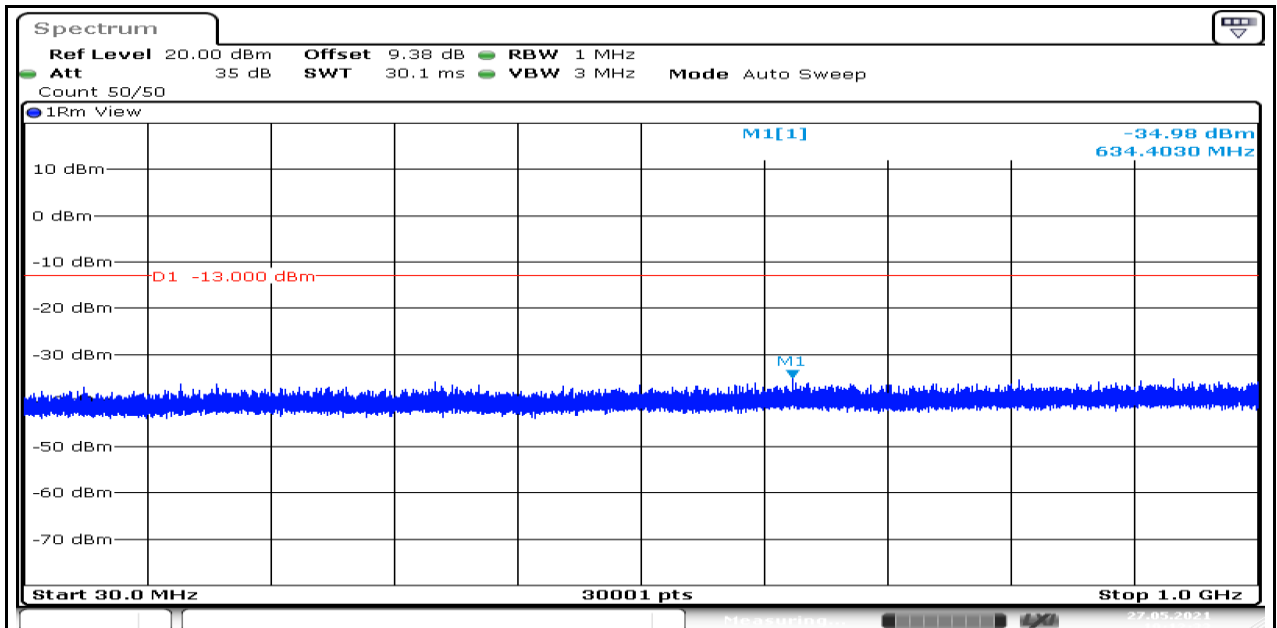
Band2-Stand-Alone-NaN-QPSK-18900-1@0-3.75kHz-5000-12000-5000~12000MHz@-53.31dBm--13-PASS



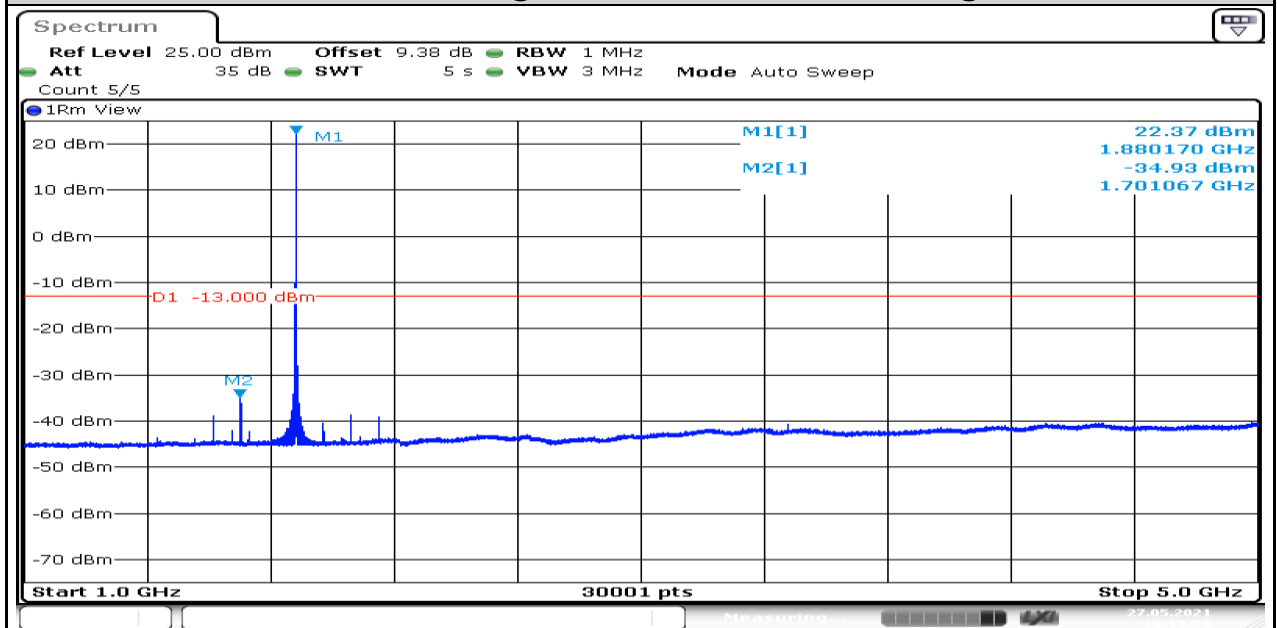
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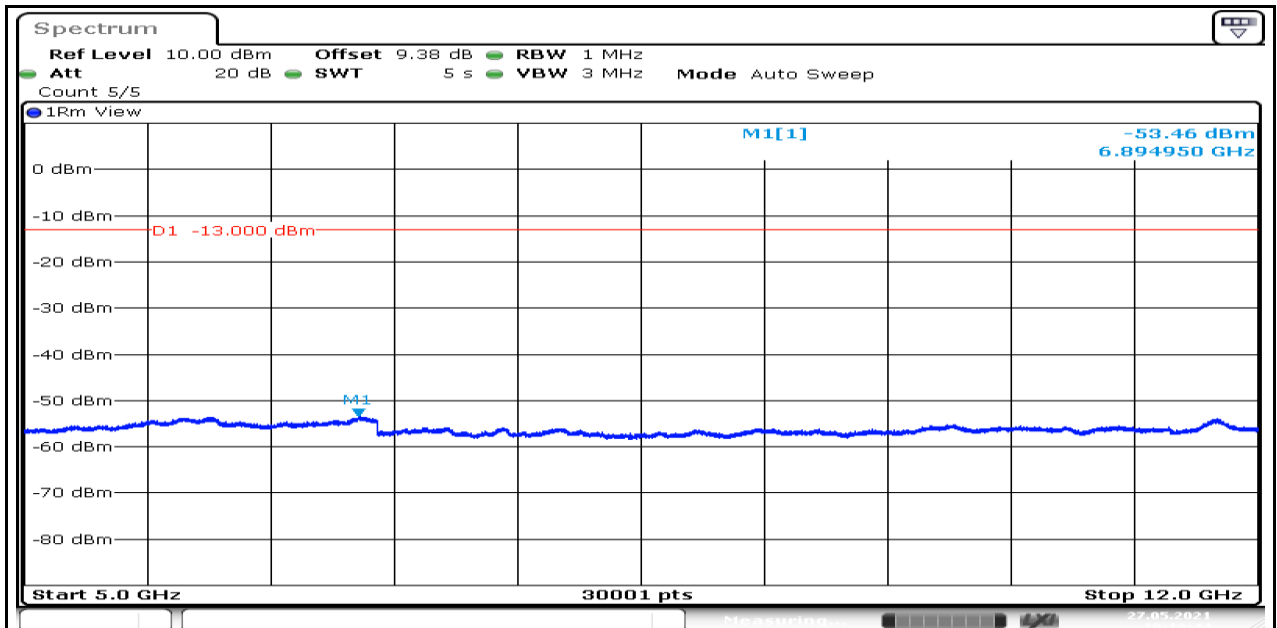
Band2-Stand-Alone-NaN-QPSK-18900-1@47-3.75kHz-30-1000-30~1000MHz@-34.98dBm--13-PASS



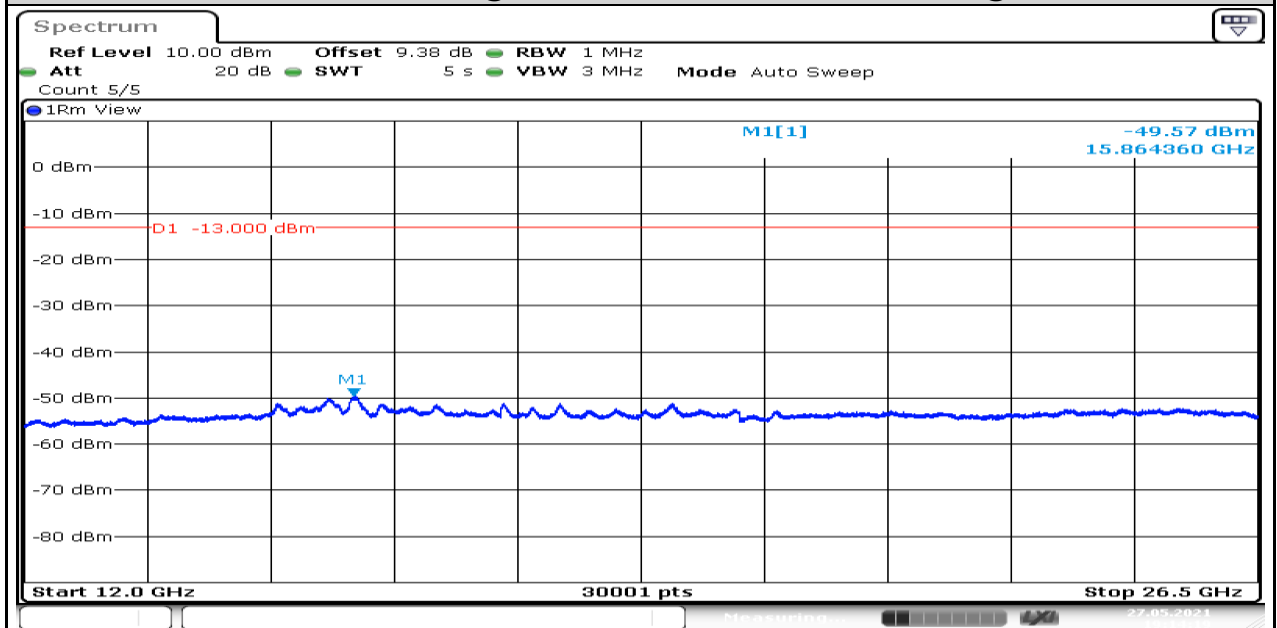
Band2-Stand-Alone-NaN-QPSK-18900-1@47-3.75kHz-1000-5000-1000~5000MHz@-34.93dBm--13-PASS



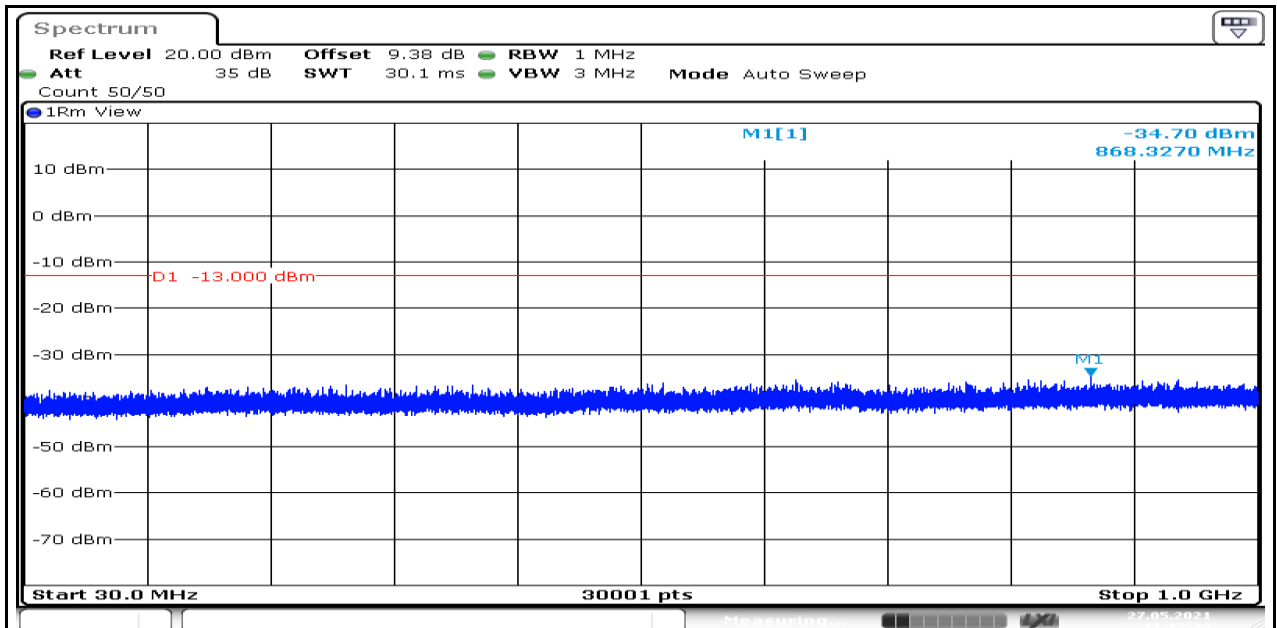
Band2-Stand-Alone-NaN-QPSK-18900-1@47-3.75kHz-5000-12000-5000~12000MHz@-53.46dBm--13-PASS



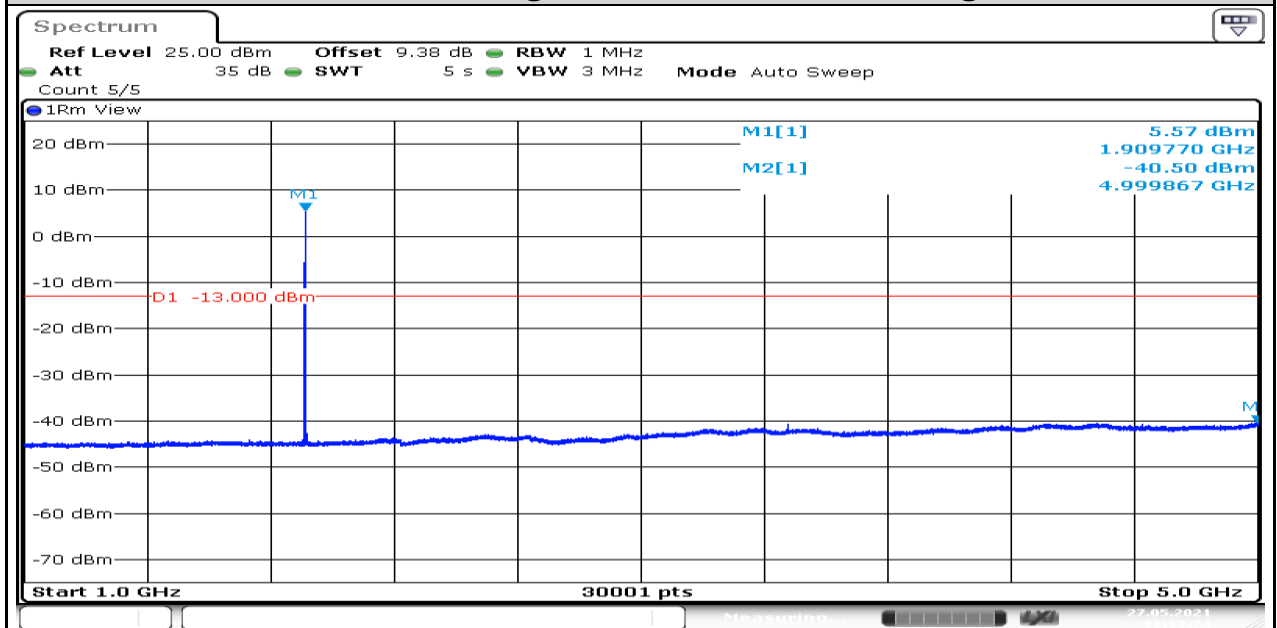
Band2-Stand-Alone-NaN-QPSK-18900-1@47-3.75kHz-12000-26500-12000~26500MHz@-49.57dBm-13-PASS



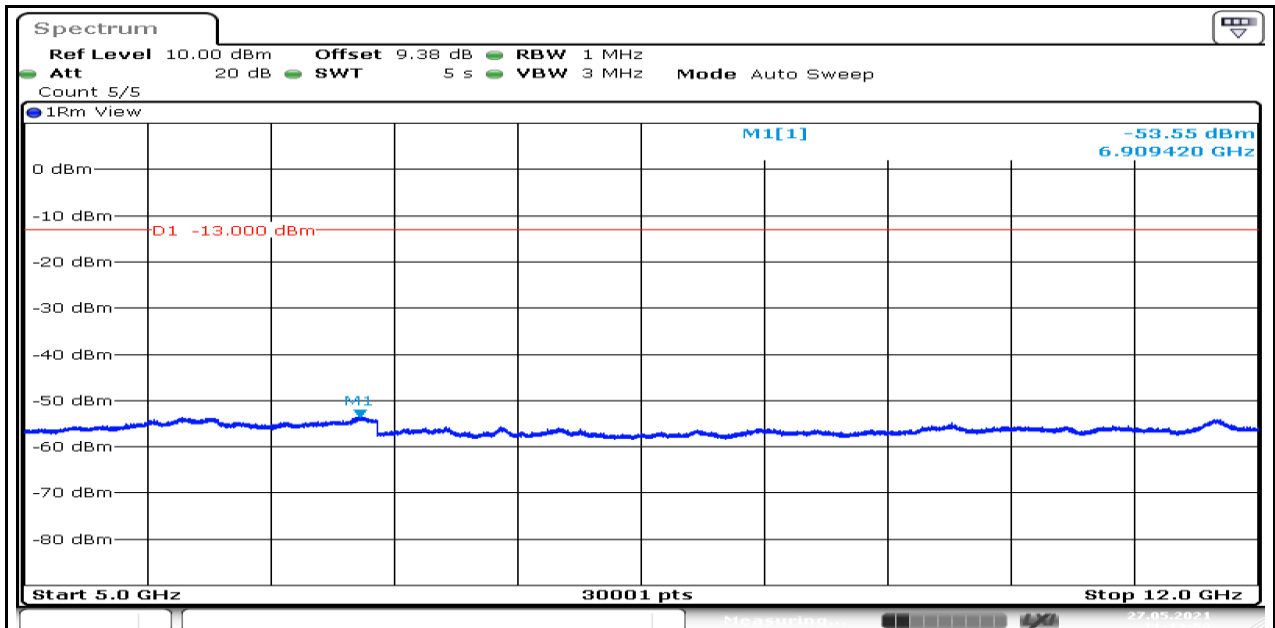
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-30-1000-30~1000MHz@-34.7dBm-13-PASS



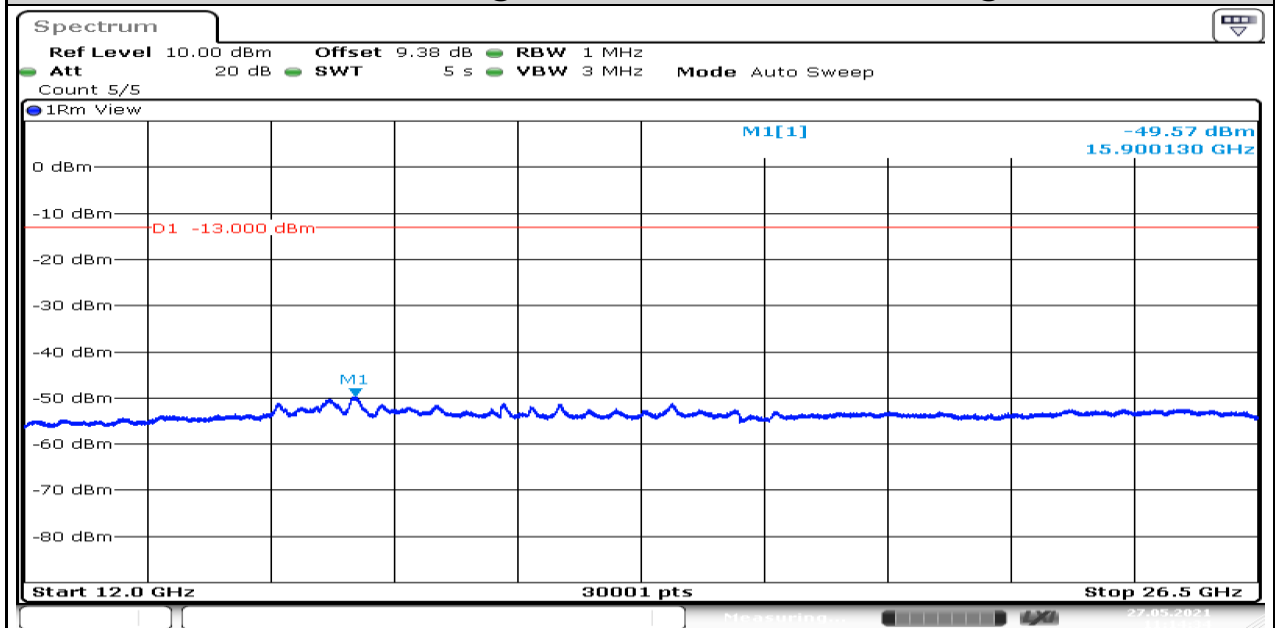
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-1000-5000-1000~5000MHz@-40.5dBm--13-PASS



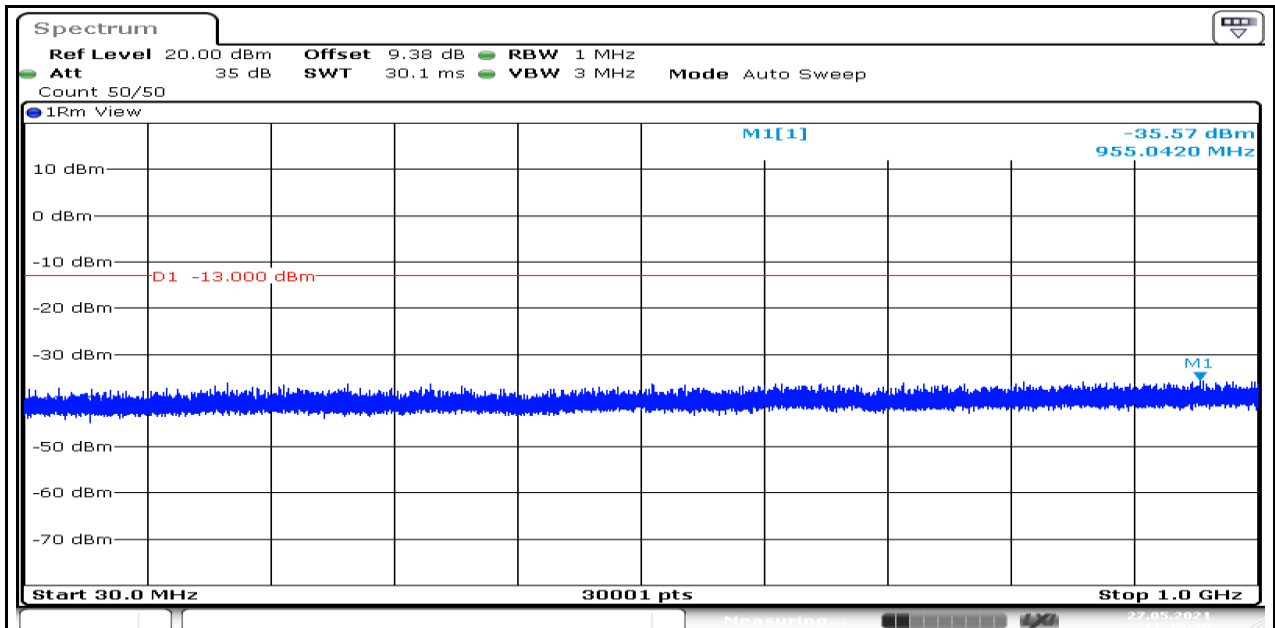
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-5000-12000-5000~12000MHz@-53.55dBm--13-PASS



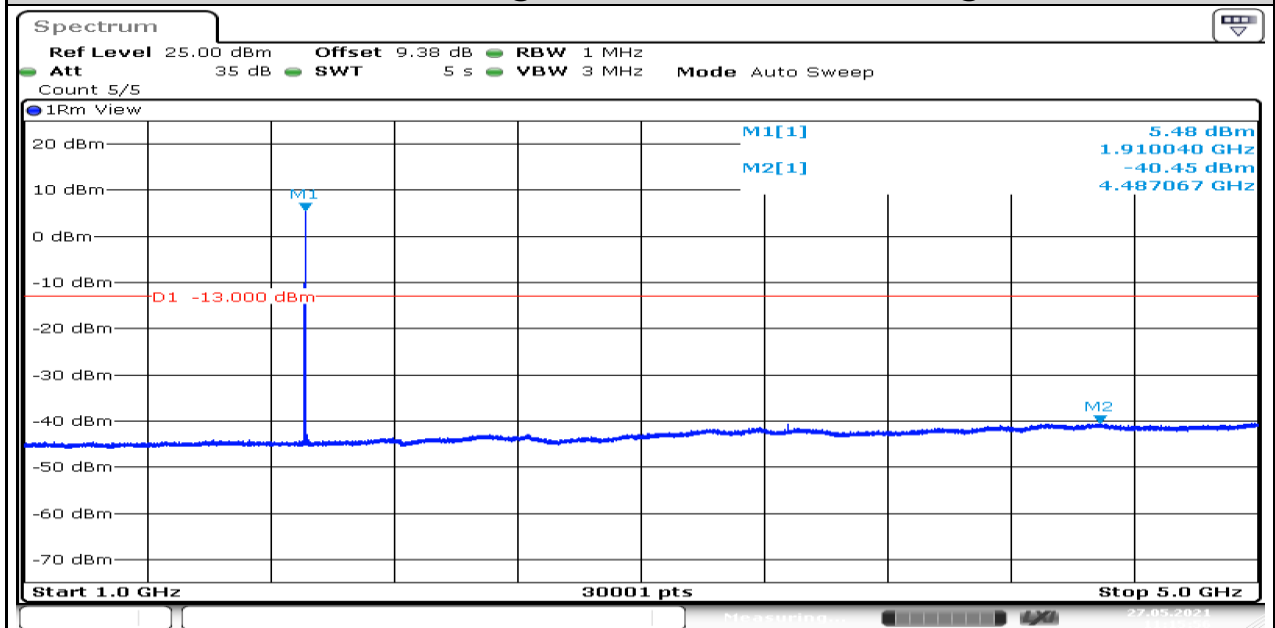
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-12000-26500-12000~26500MHz@-49.57dBm--13-PASS



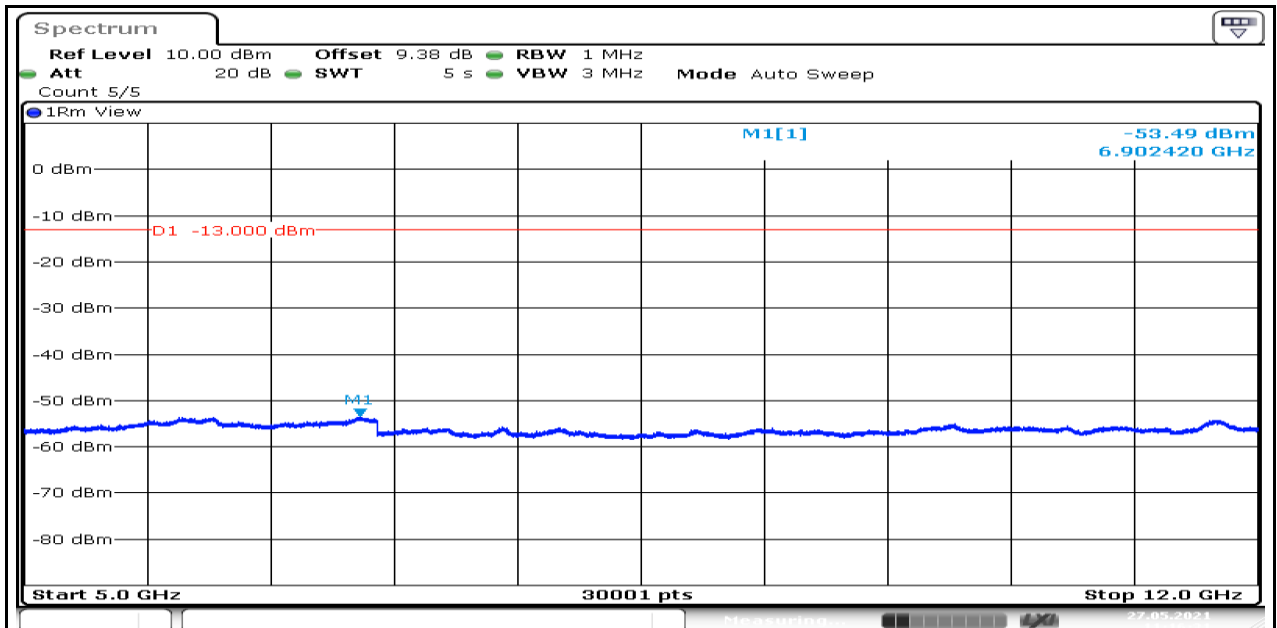
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-30-1000-30~1000MHz@-35.57dBm--13-PASS



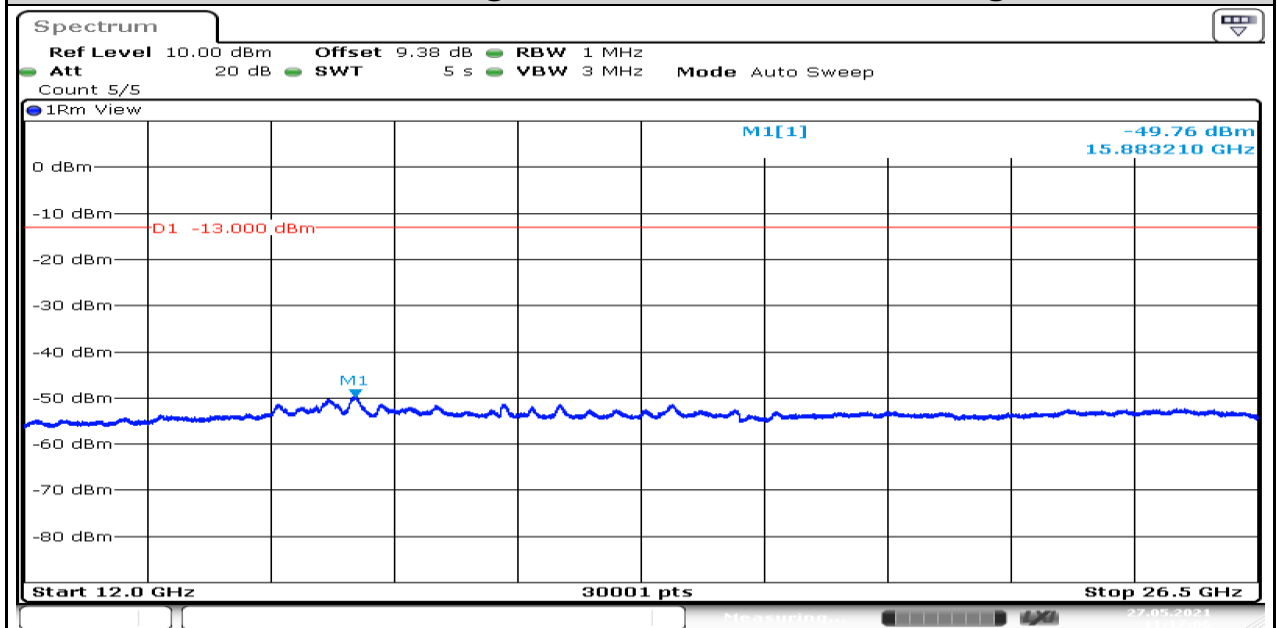
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-1000-5000-1000~5000MHz@-40.45dBm--13-PASS



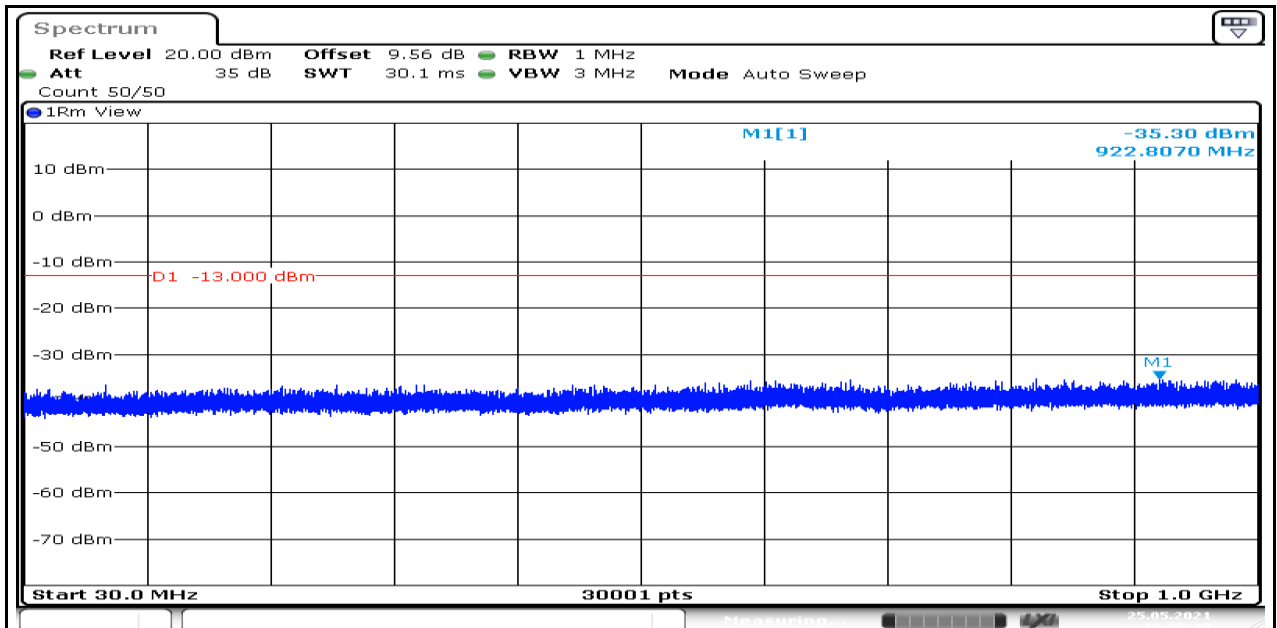
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-5000-12000-5000~12000MHz@-53.49dBm--13-PASS



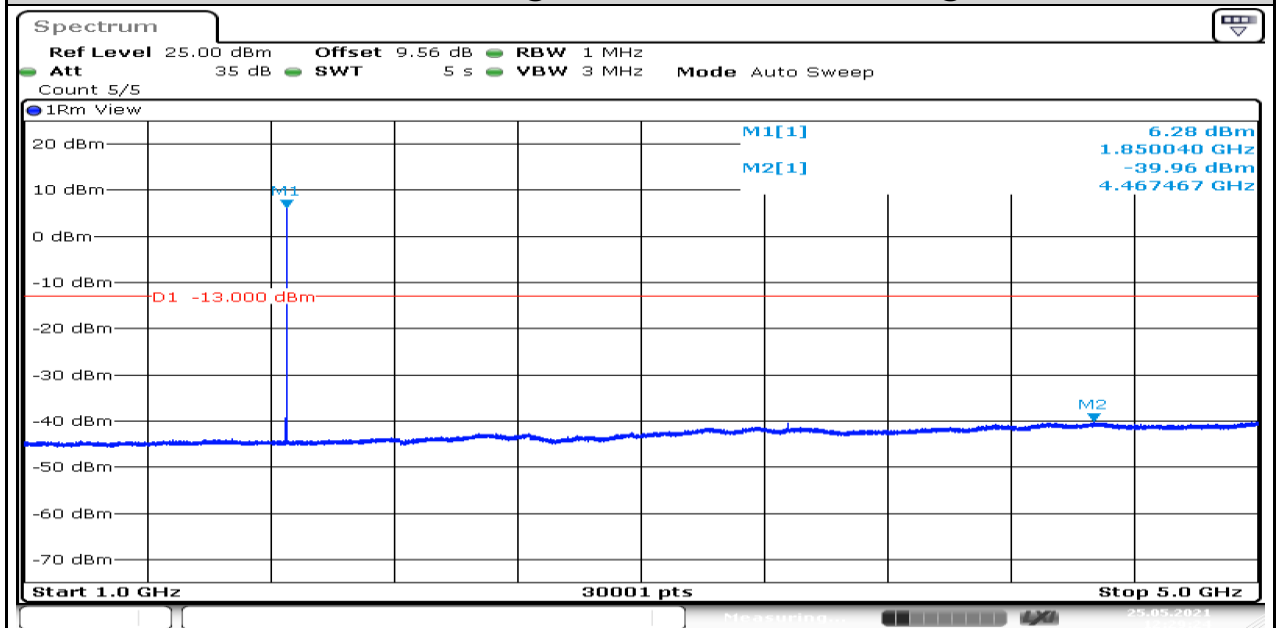
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-12000-26500-12000~26500MHz@-49.76dBm--13-PASS



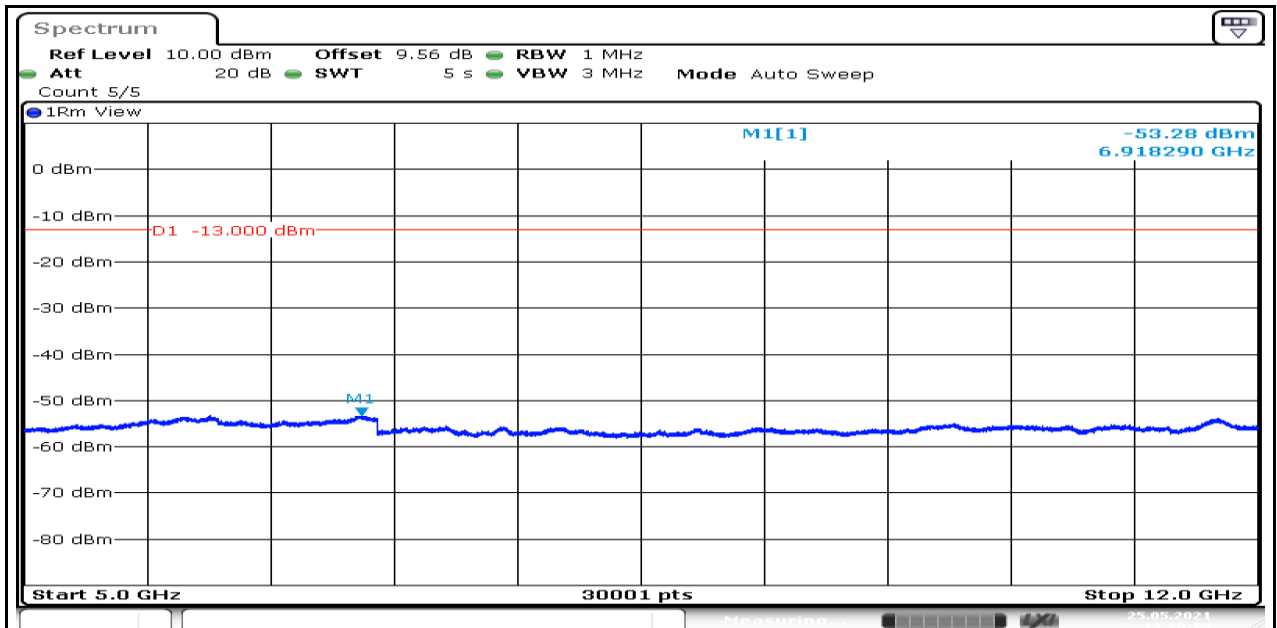
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-30-1000-30~1000MHz@-35.3dBm--13-PASS



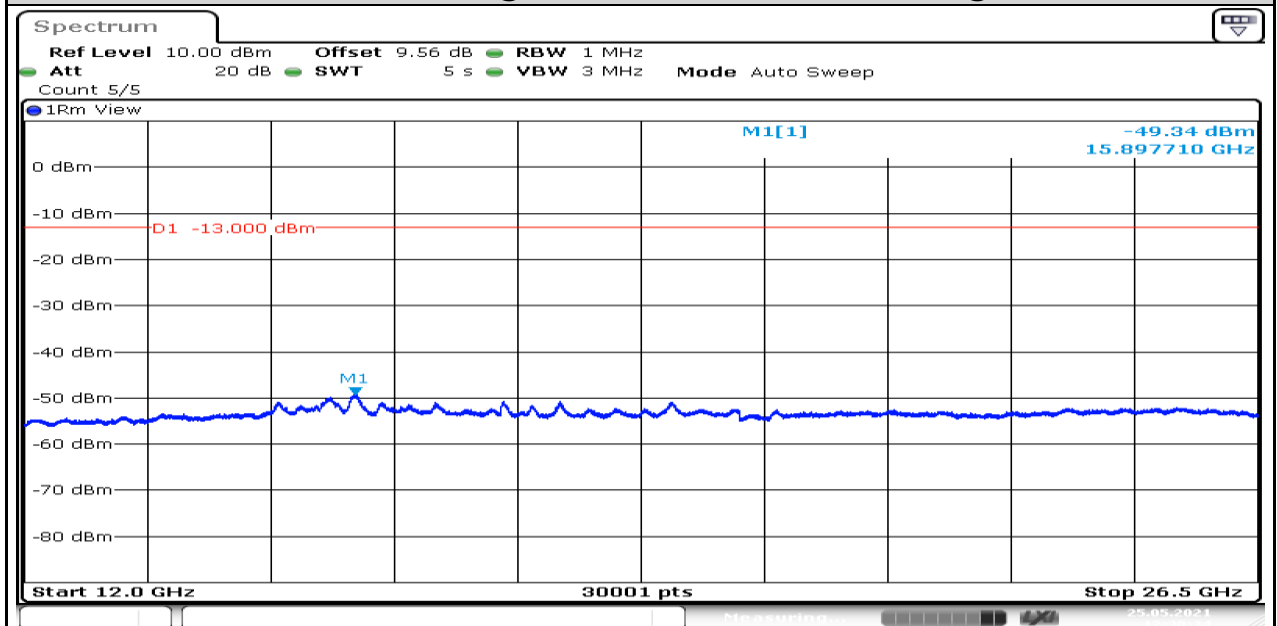
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-1000-5000-1000~5000MHz@-39.96dBm--13-PASS



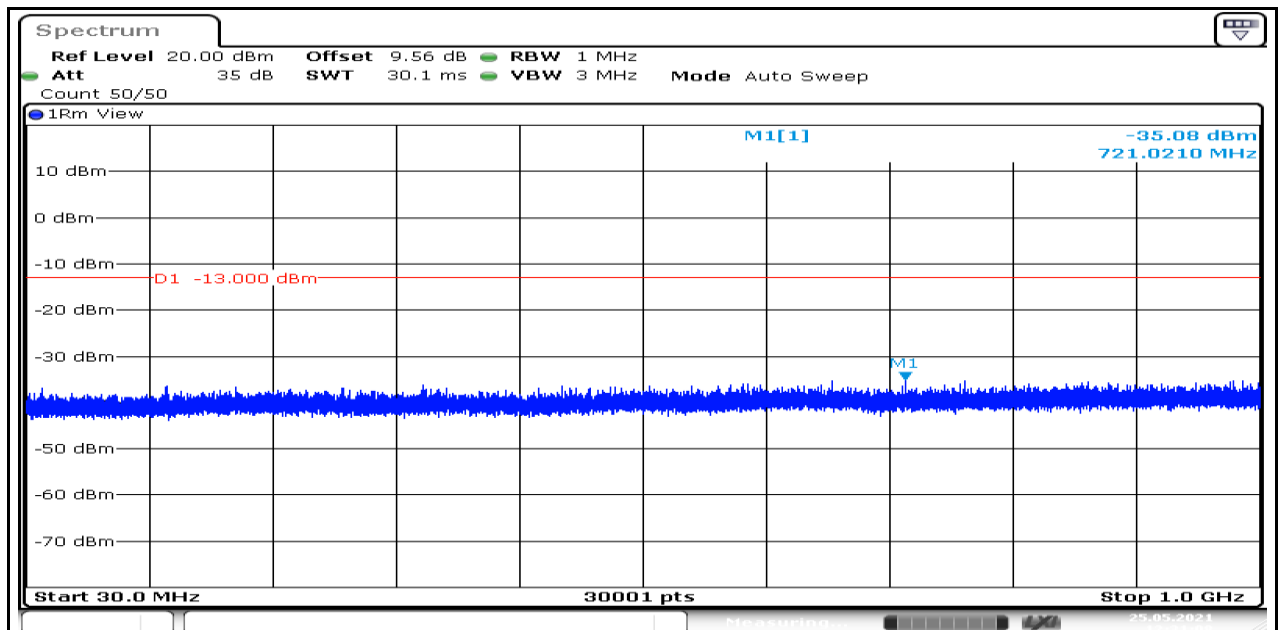
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-5000-12000-5000~12000MHz@-53.28dBm--13-PASS



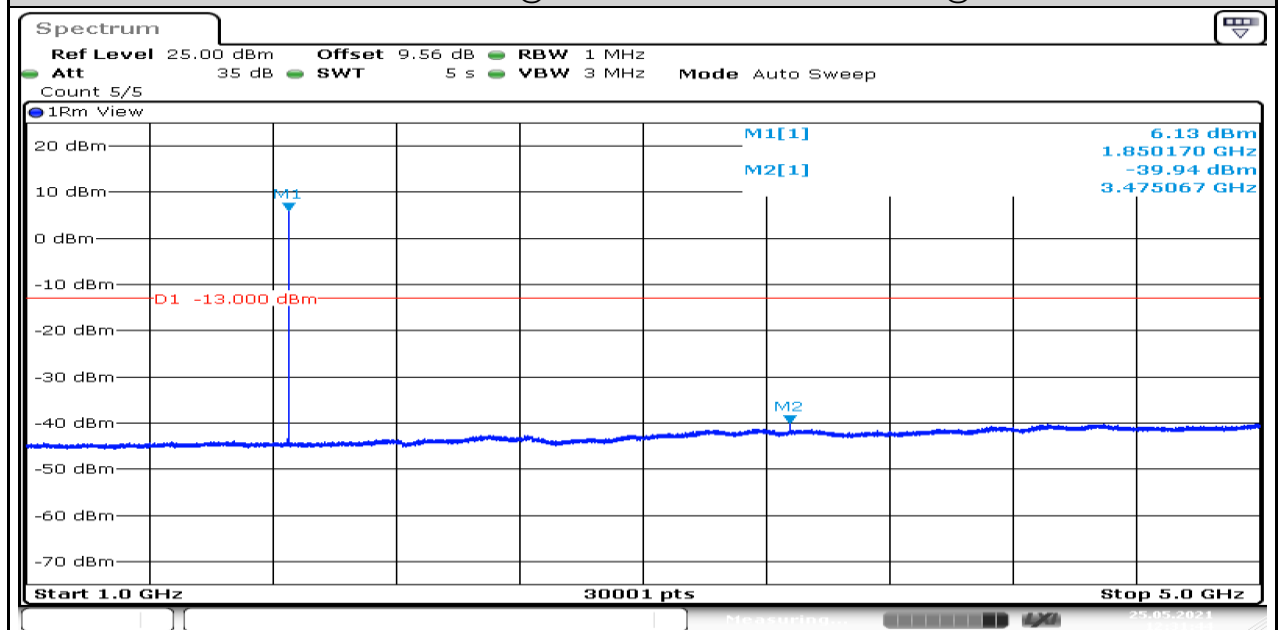
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-12000-26500-12000~26500MHz@-49.34dBm--13-PASS



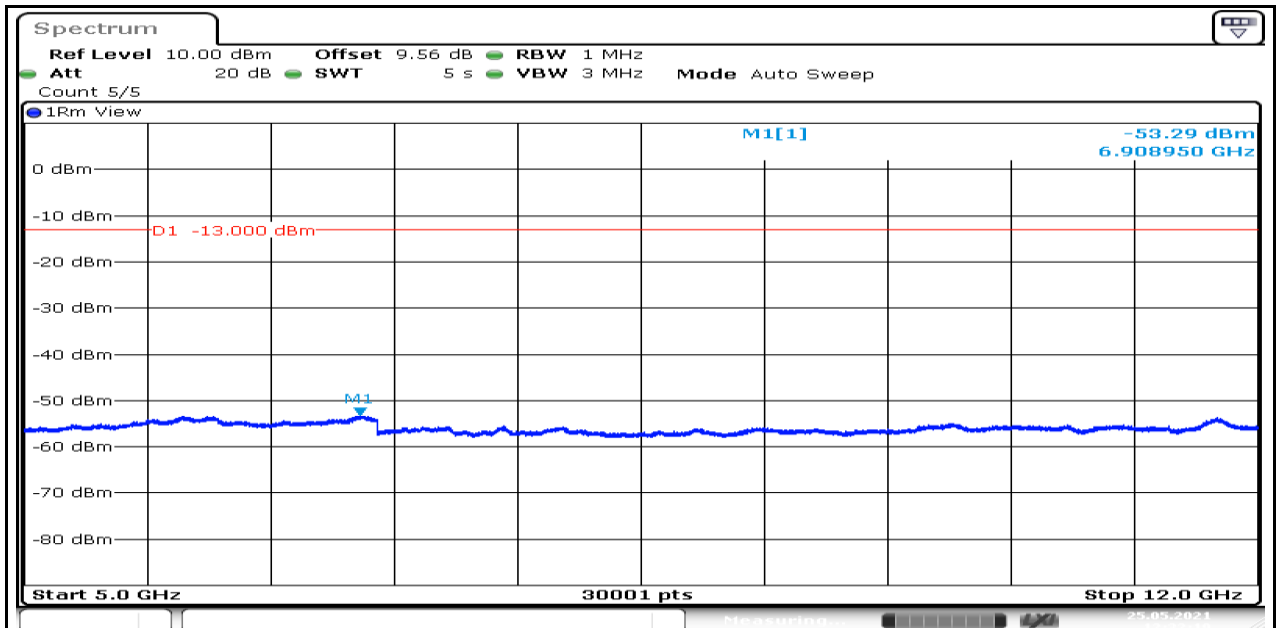
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-30-1000-30~1000MHz@-35.08dBm--13-PASS



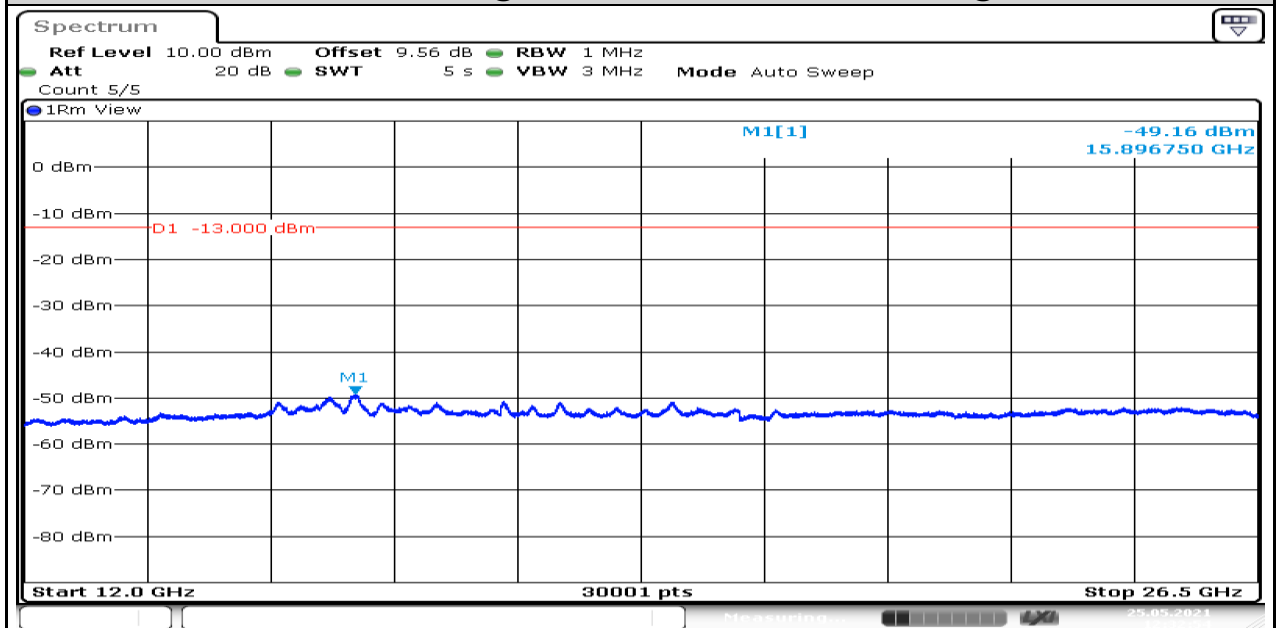
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-1000-5000-1000~5000MHz@-39.94dBm--13-PASS



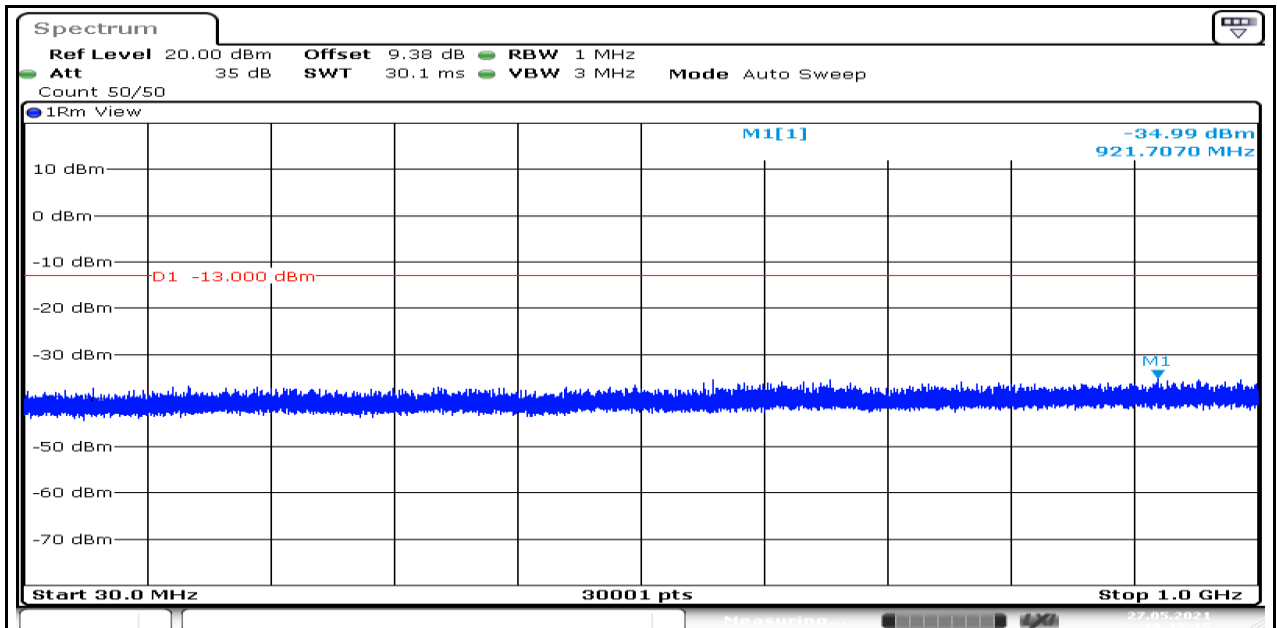
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-5000-12000-5000~12000MHz@-53.29dBm--13-PASS



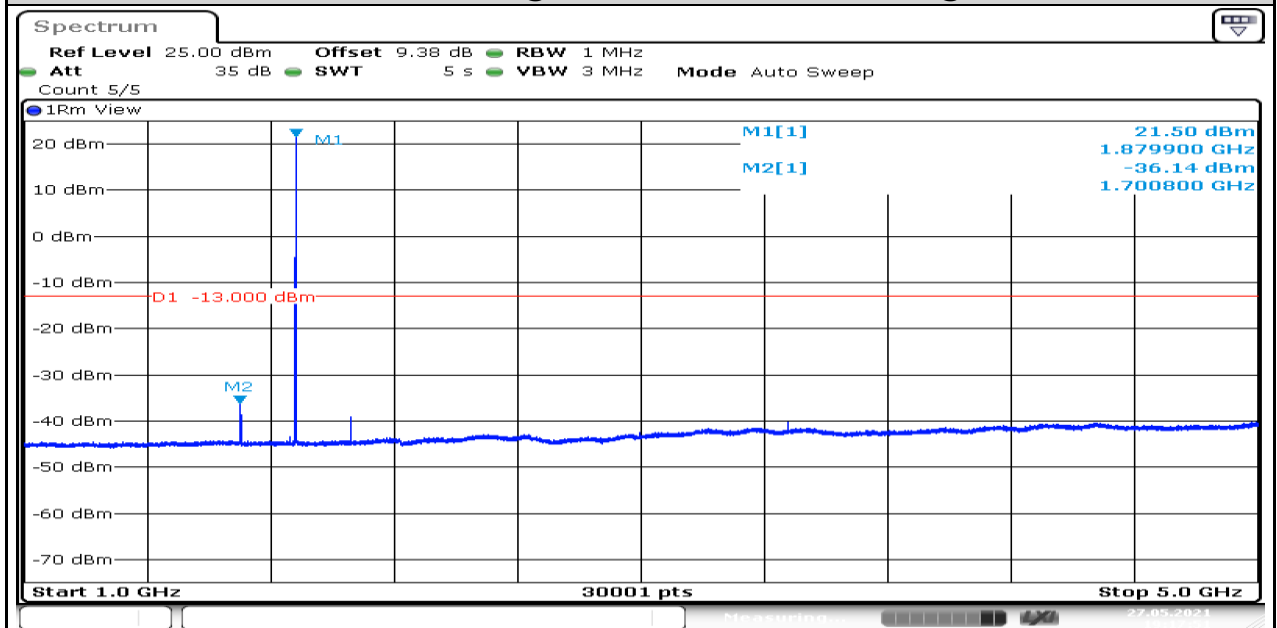
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-12000-26500-12000~26500MHz@-49.16dBm--13-PASS



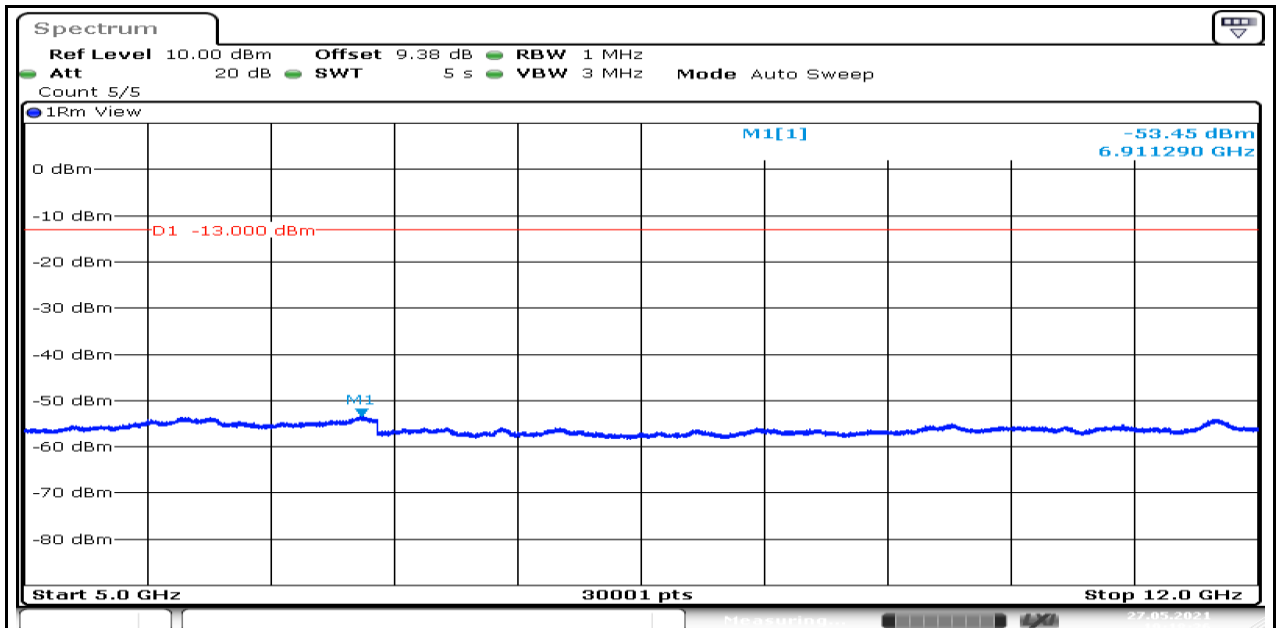
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-30-1000-30~1000MHz@-34.99dBm--13-PASS



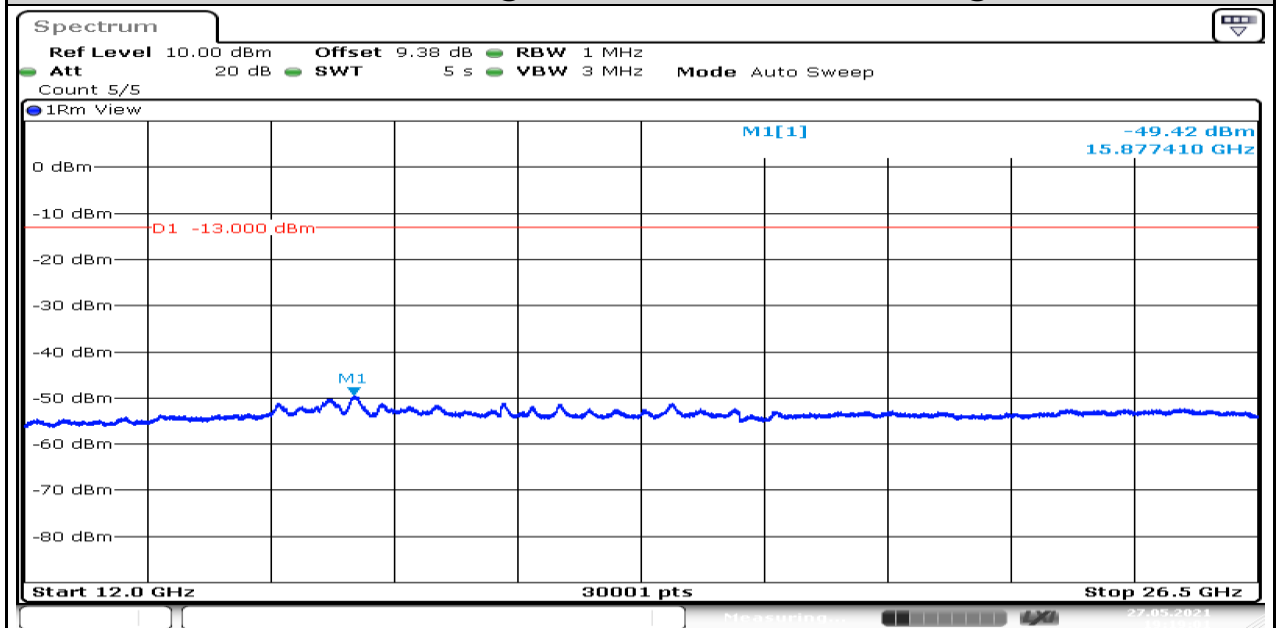
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-1000-5000-1000~5000MHz@-36.14dBm--13-PASS



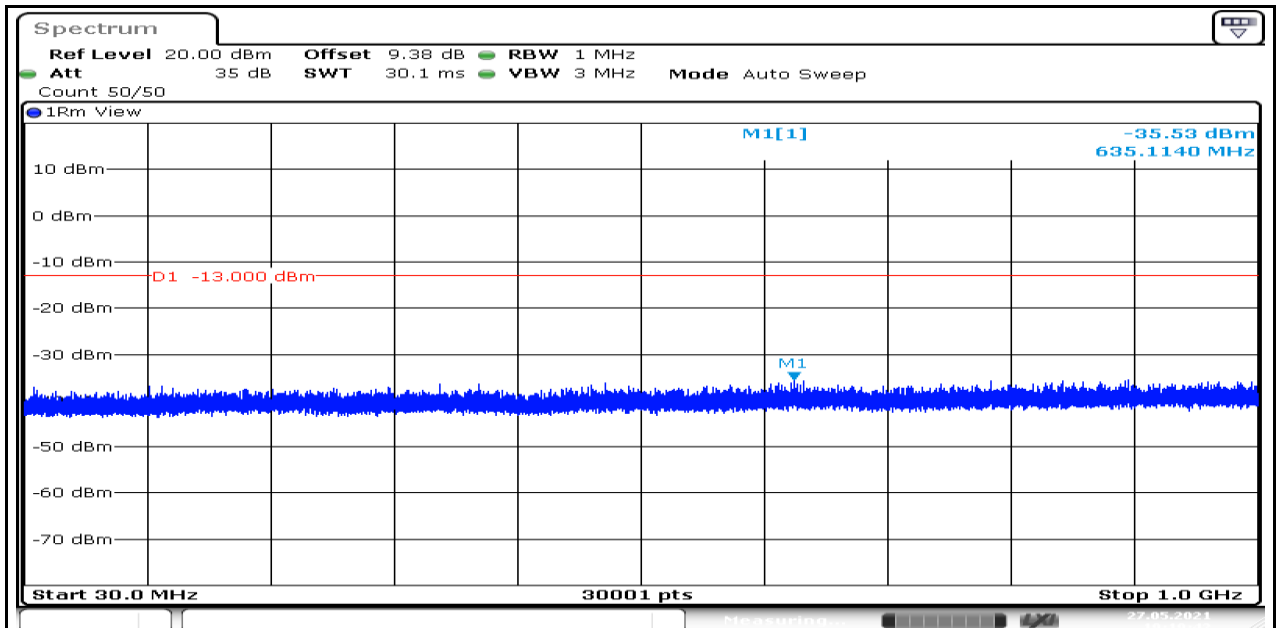
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-5000-12000-5000~12000MHz@-53.45dBm--13-PASS



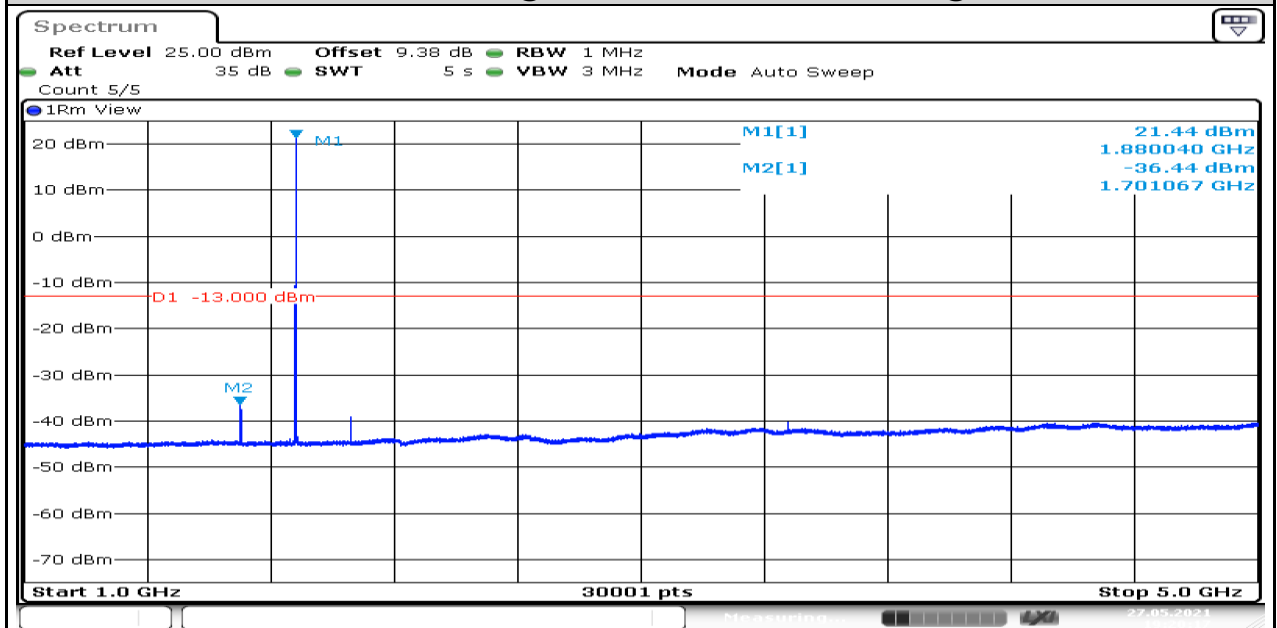
Band2-Stand-Alone-NaN-BPSK-18900-1@0-15kHz-12000-26500-12000~26500MHz@-49.42dBm--13-PASS



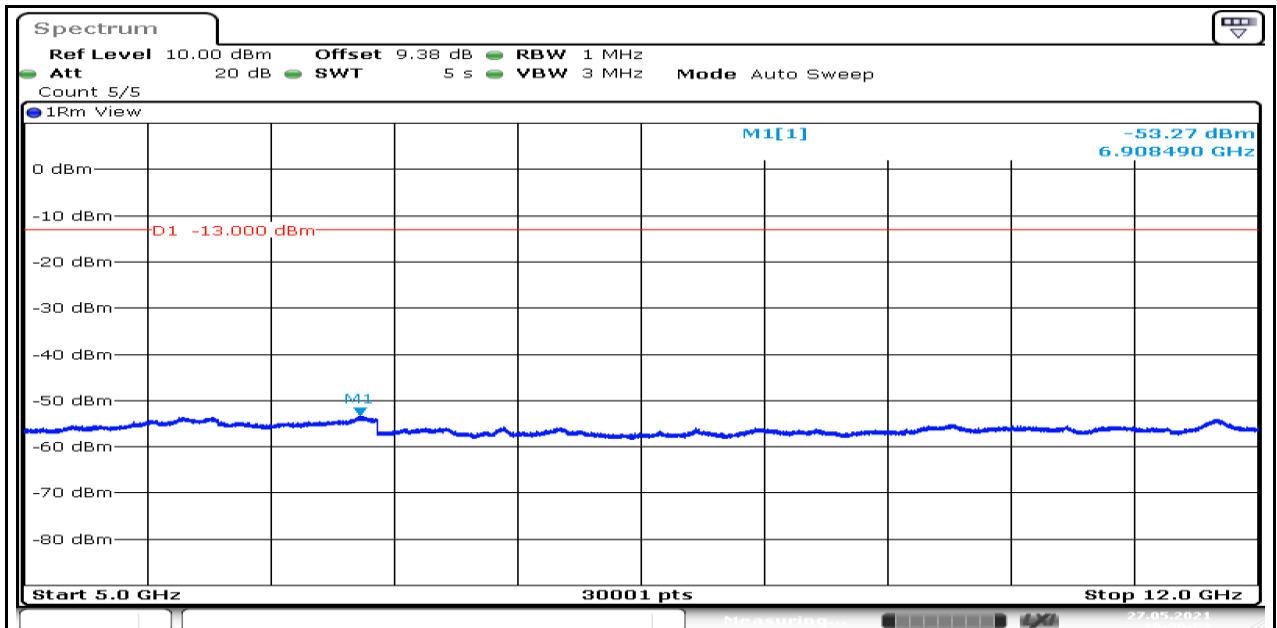
Band2-Stand-Alone-NaN-BPSK-18900-1@11-15kHz-30-1000-30~1000MHz@-35.53dBm--13-PASS



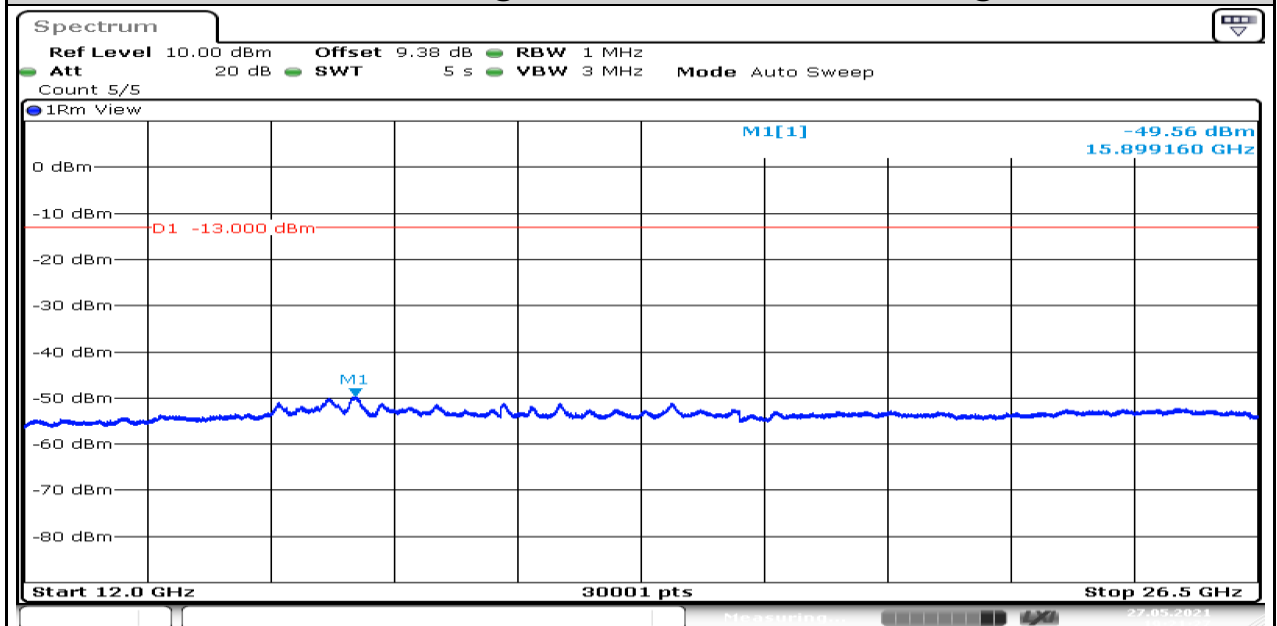
Band2-Stand-Alone-NaN-BPSK-18900-1@11-15kHz-1000-5000-1000~5000MHz@-36.44dBm--13-PASS



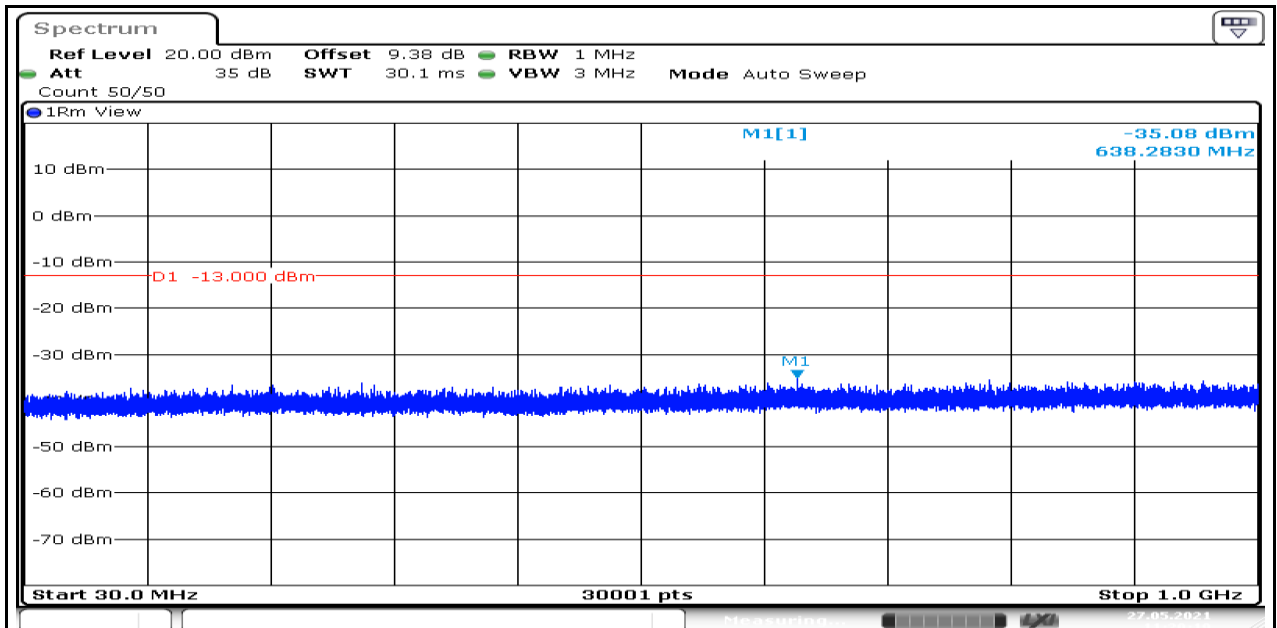
Band2-Stand-Alone-NaN-BPSK-18900-1@11-15kHz-5000-12000-5000~12000MHz@-53.27dBm--13-PASS



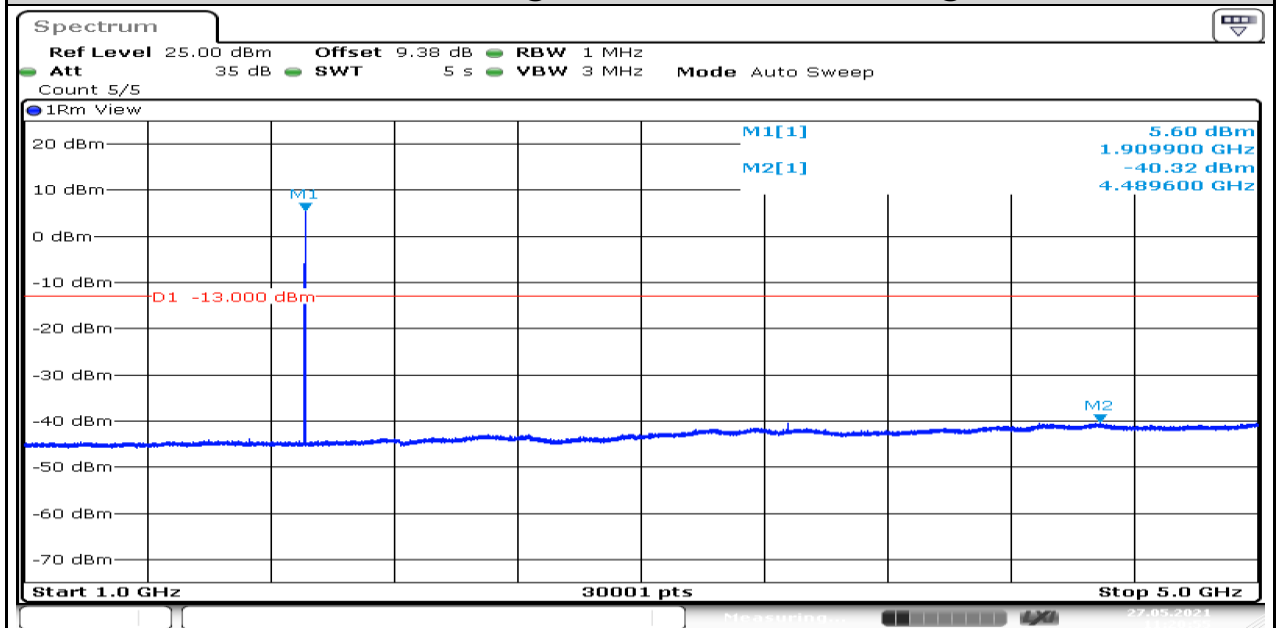
Band2-Stand-Alone-NaN-BPSK-18900-1@11-15kHz-12000-26500-12000~26500MHz@-49.56dBm--13-PASS



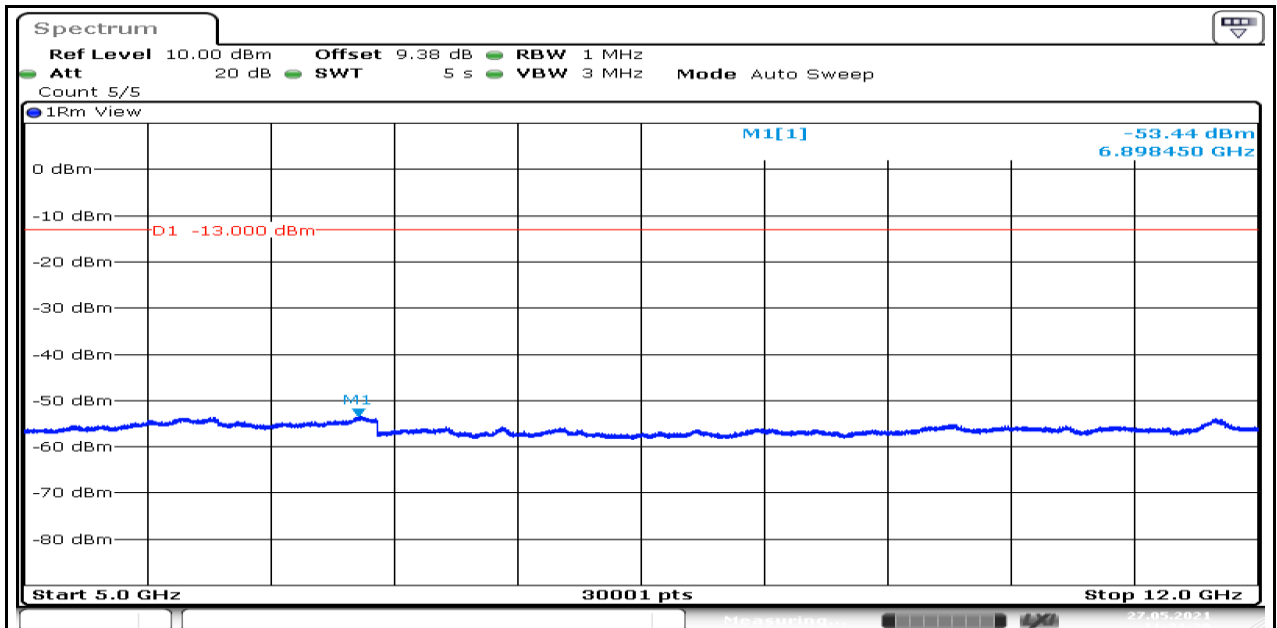
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-30-1000-30~1000MHz@-35.08dBm--13-PASS



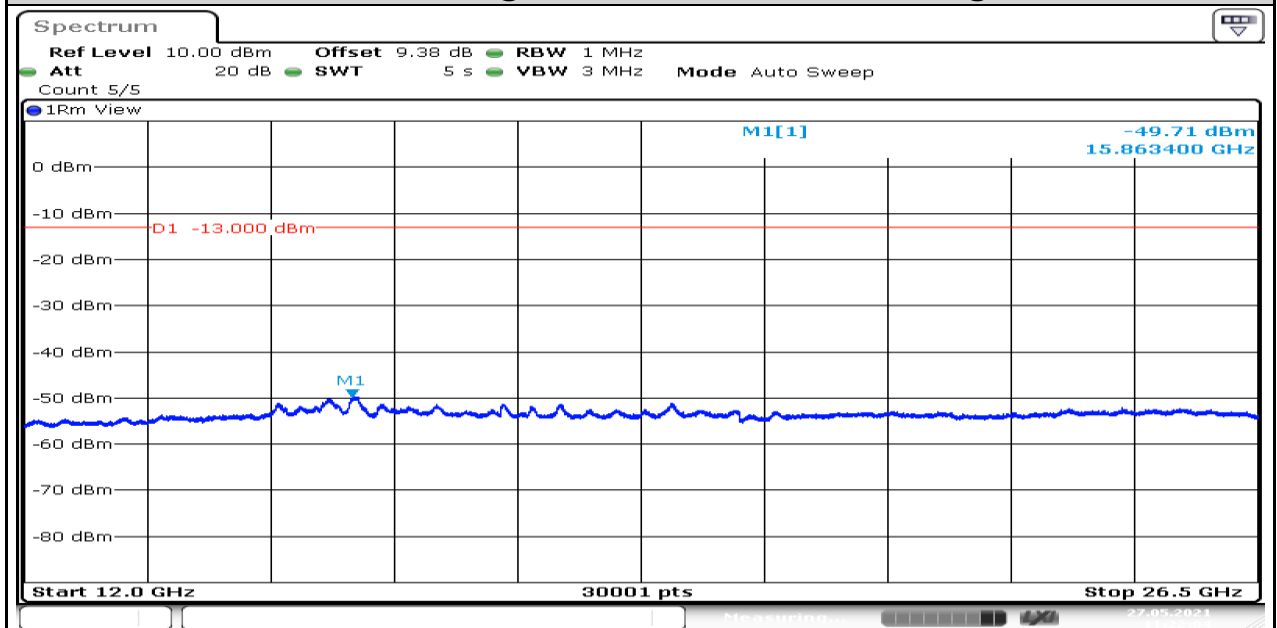
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-1000-5000-1000~5000MHz@-40.32dBm--13-PASS



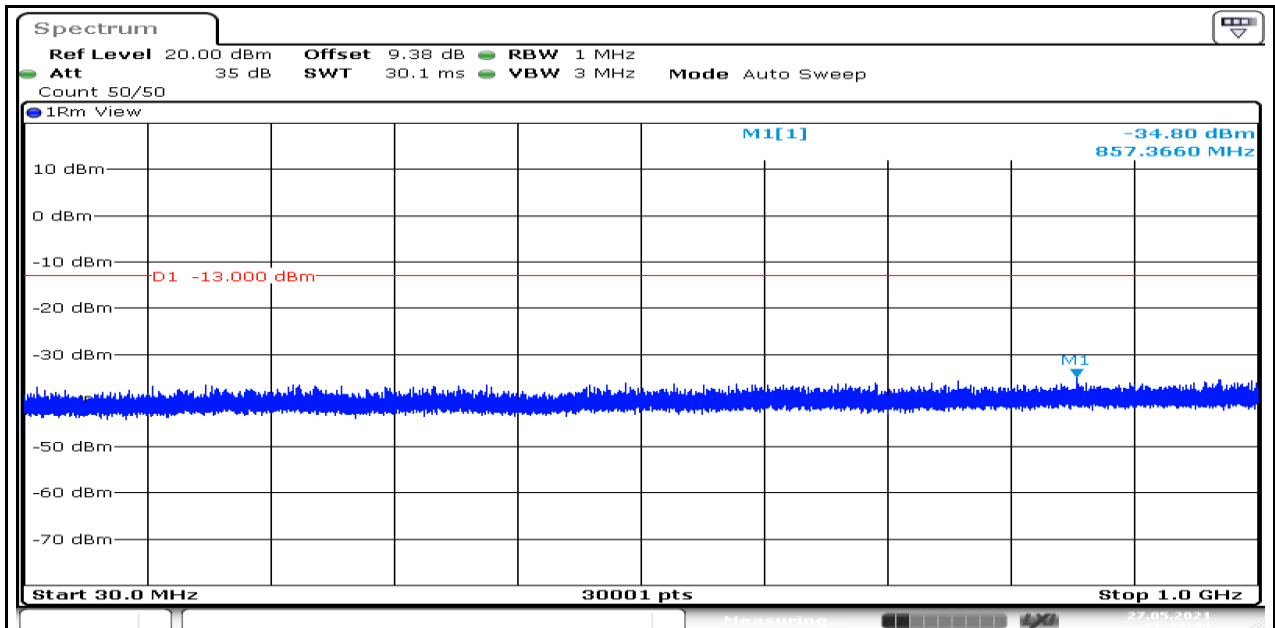
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-5000-12000-5000~12000MHz@-53.44dBm--13-PASS



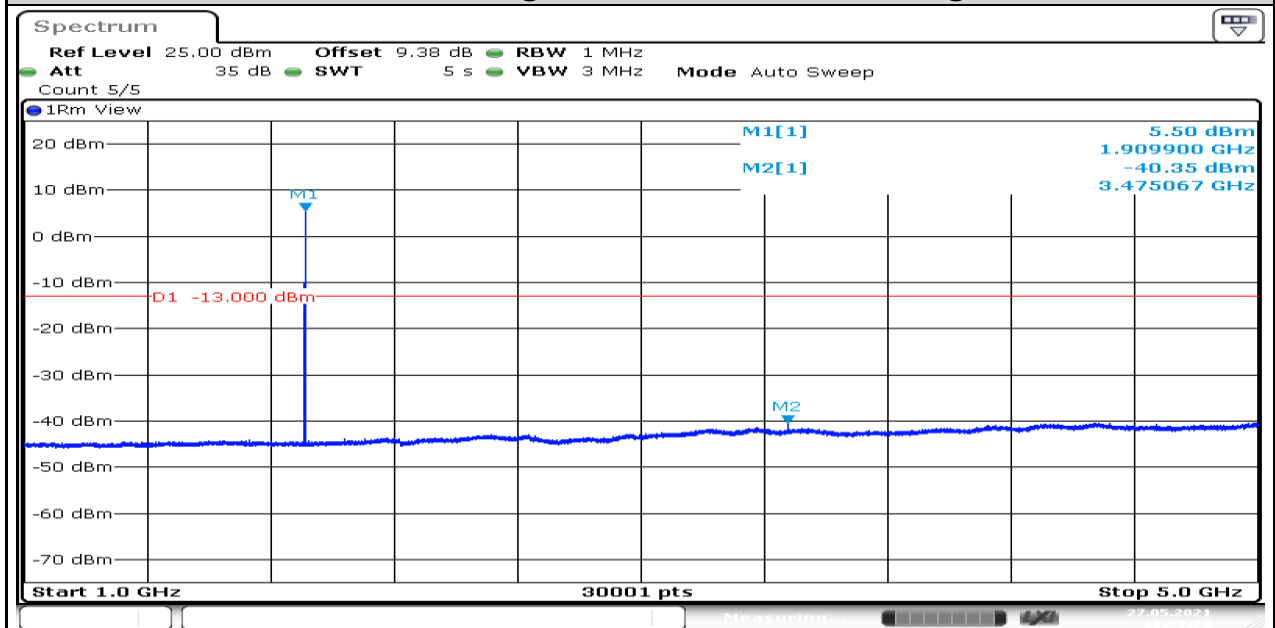
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-12000-26500-12000~26500MHz@-49.71dBm--13-PASS



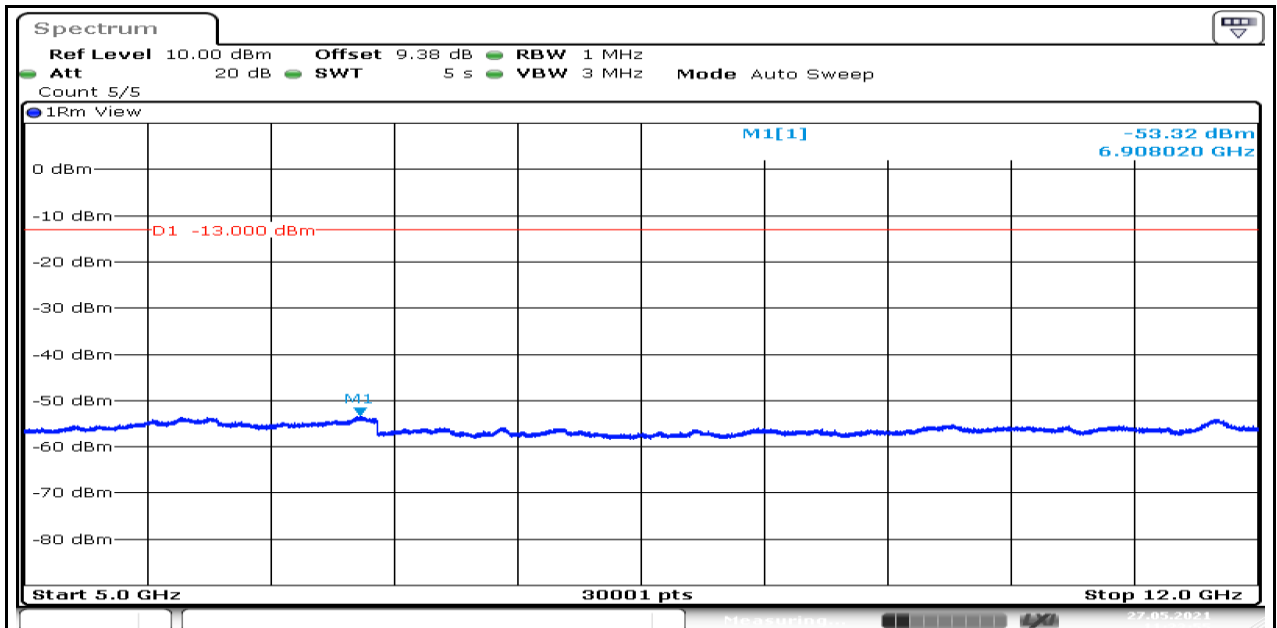
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-30-1000-30~1000MHz@-34.8dBm--13-PASS



Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-1000-5000-1000~5000MHz@-40.35dBm--13-PASS

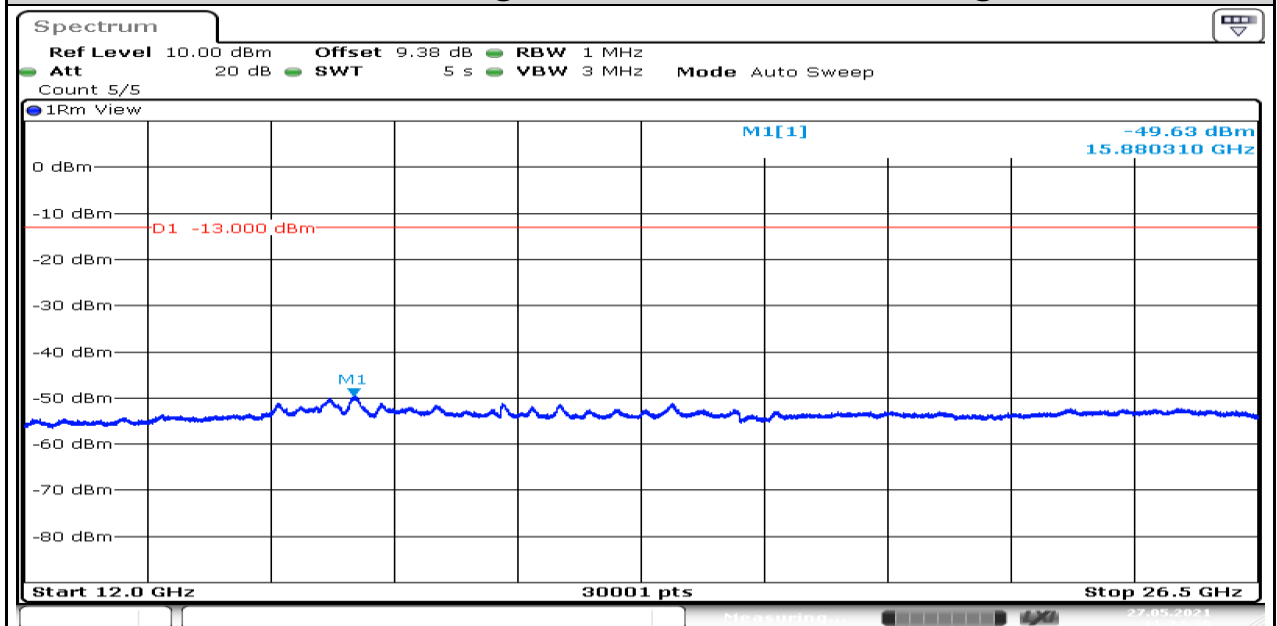


Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-5000-12000-5000~12000MHz@-53.32dBm--13-PASS



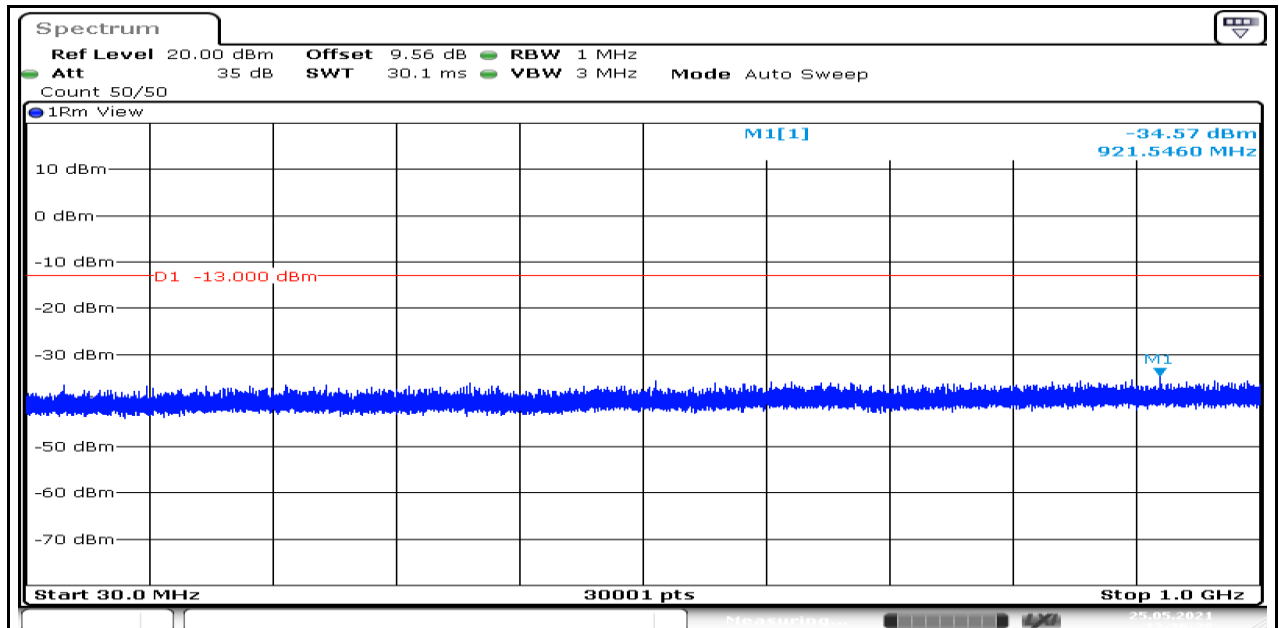
Date: 27.MAY.2021 11:23:55

Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-12000-26500-12000~26500MHz@-49.63dBm--13-PASS

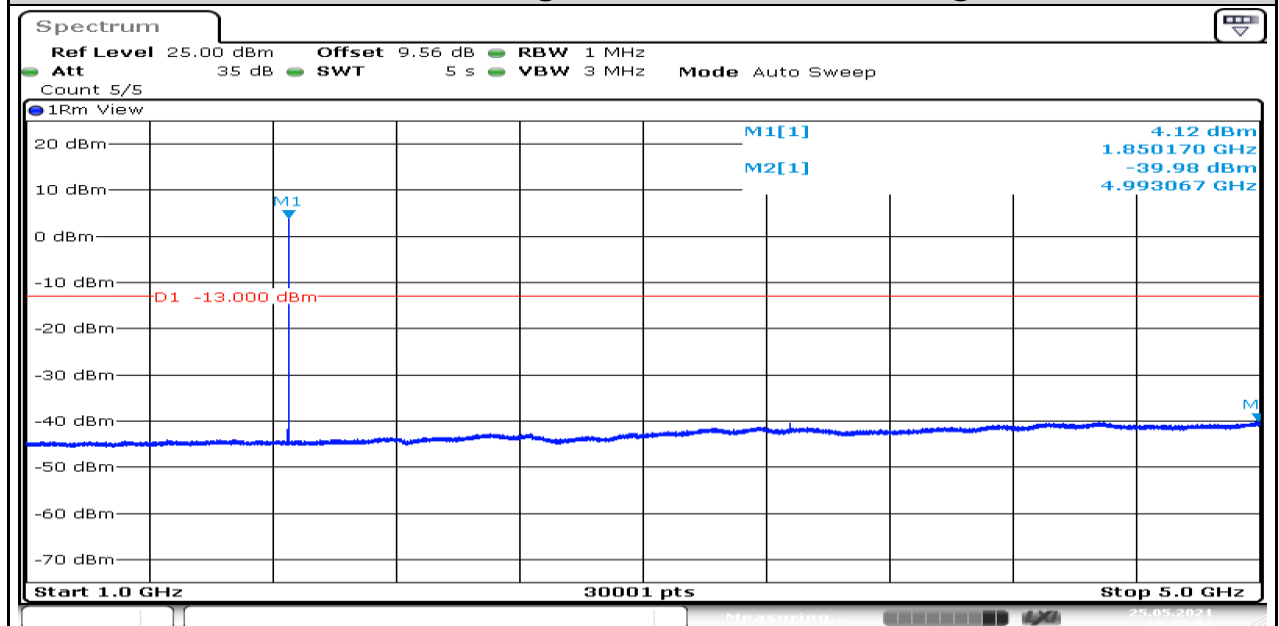


Date: 27.MAY.2021 11:24:30

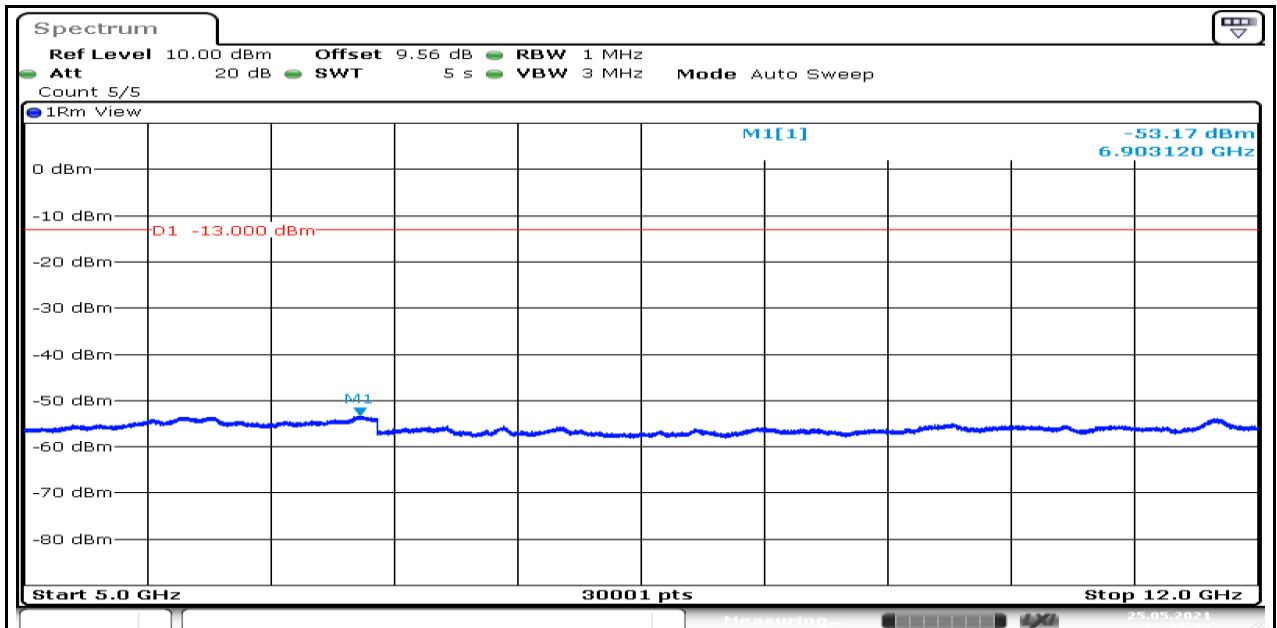
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-30-1000-30~1000MHz@-34.57dBm--13-PASS



Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-1000-5000-1000~5000MHz@-39.98dBm--13-PASS

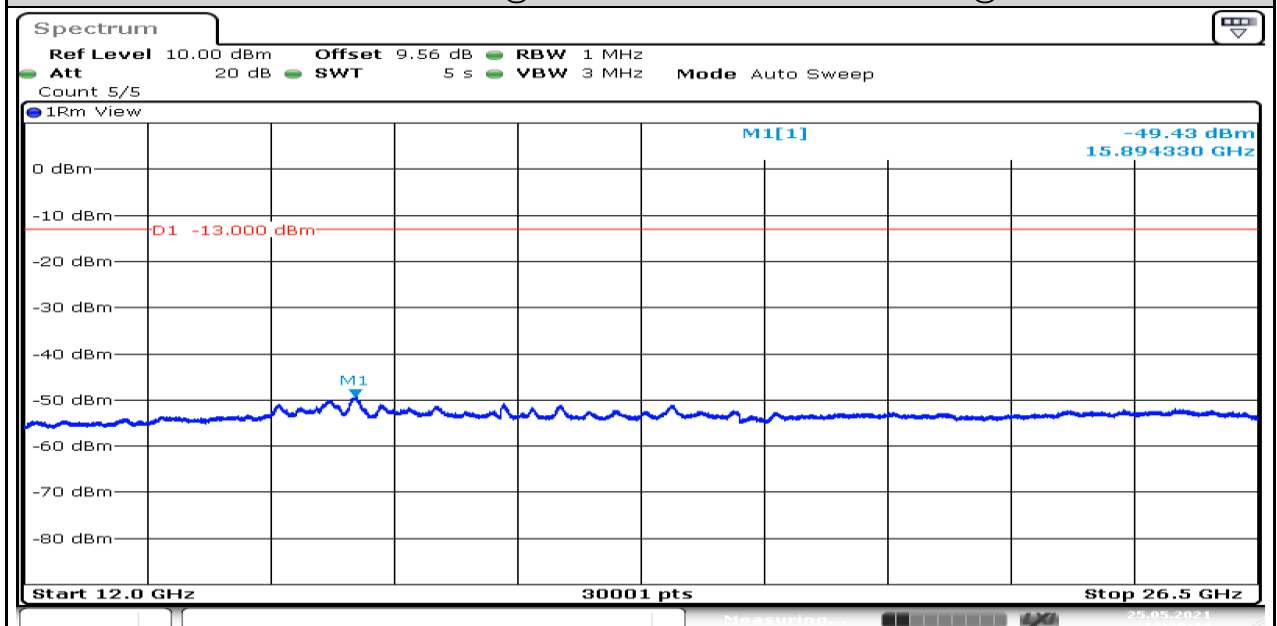


Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-5000-12000-5000~12000MHz@-53.17dBm--13-PASS



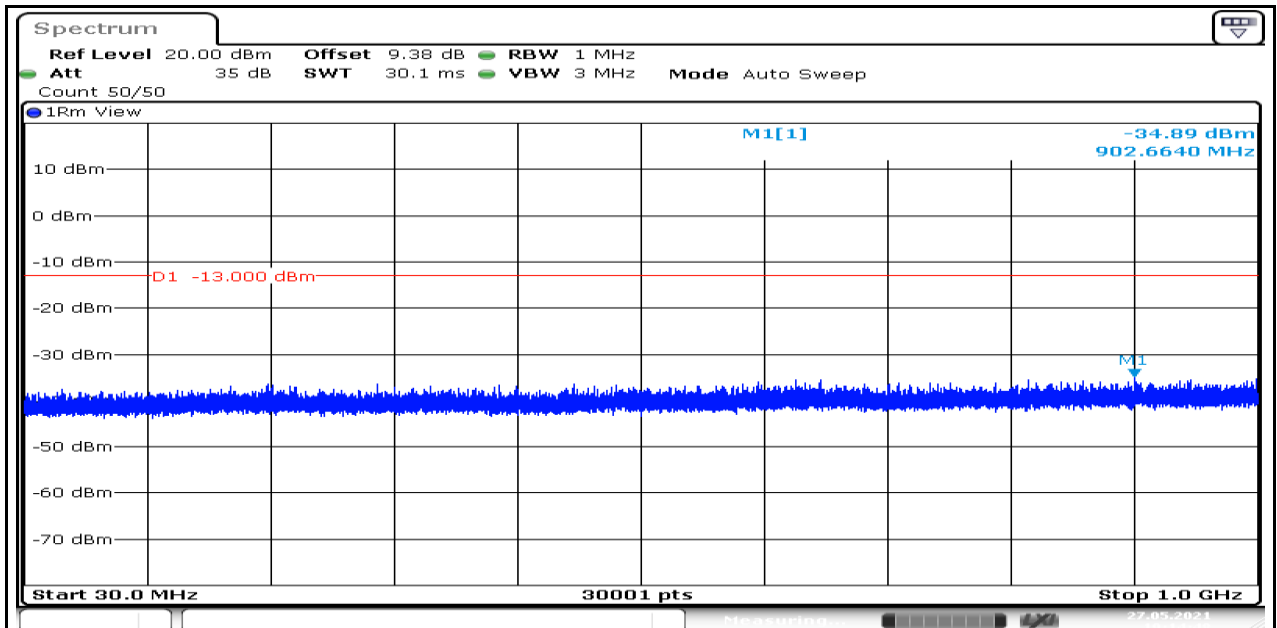
Date: 25.MAY.2021 12:27:39

Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-12000-26500-12000~26500MHz@-49.43dBm--13-PASS

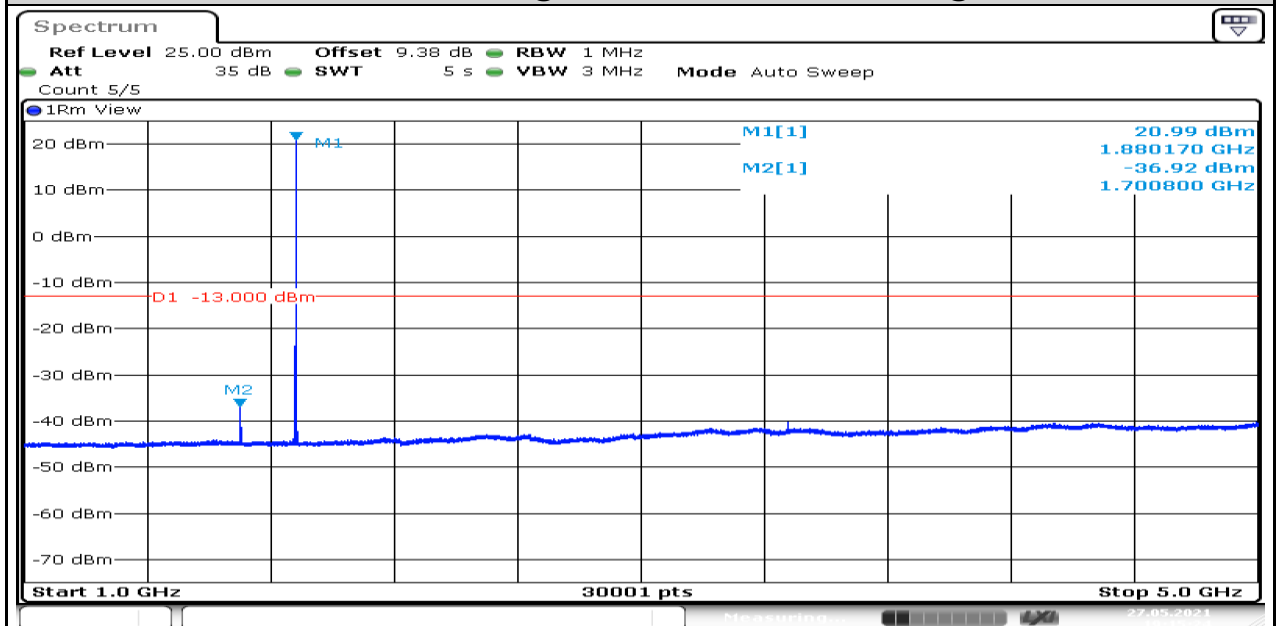


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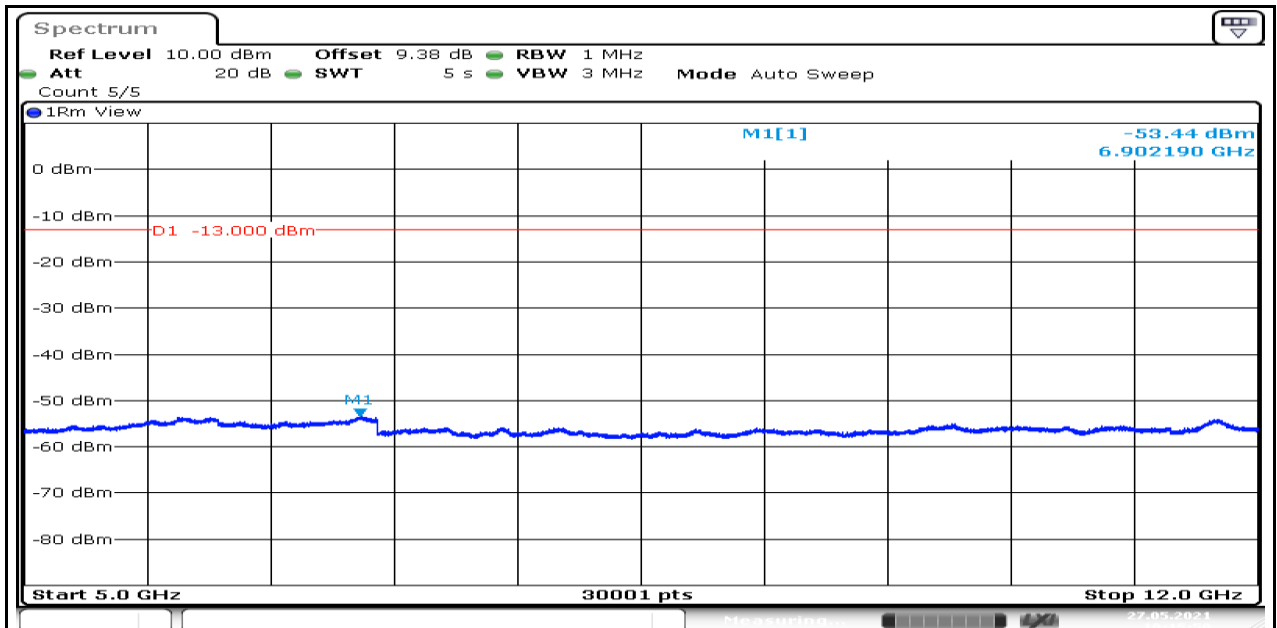
Band2-Stand-Alone-NaN-QPSK-18900-12@0-15kHz-30-1000-30~1000MHz@-34.89dBm--13-PASS



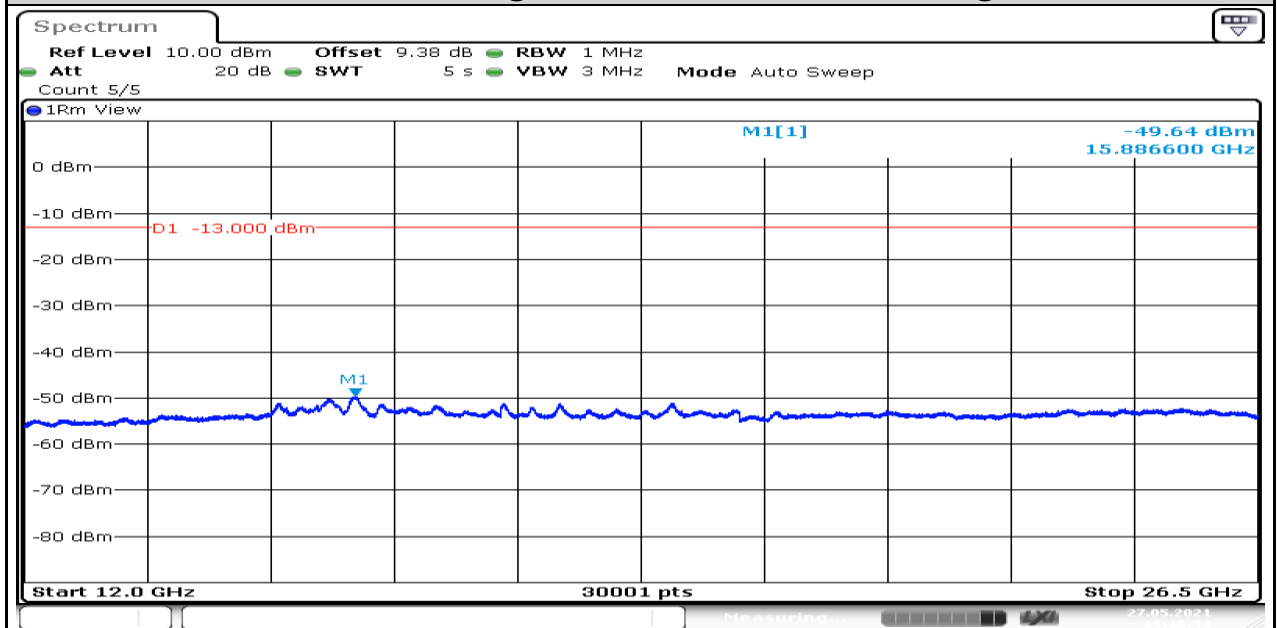
Band2-Stand-Alone-NaN-QPSK-18900-12@0-15kHz-1000-5000-1000~5000MHz@-36.92dBm--13-PASS



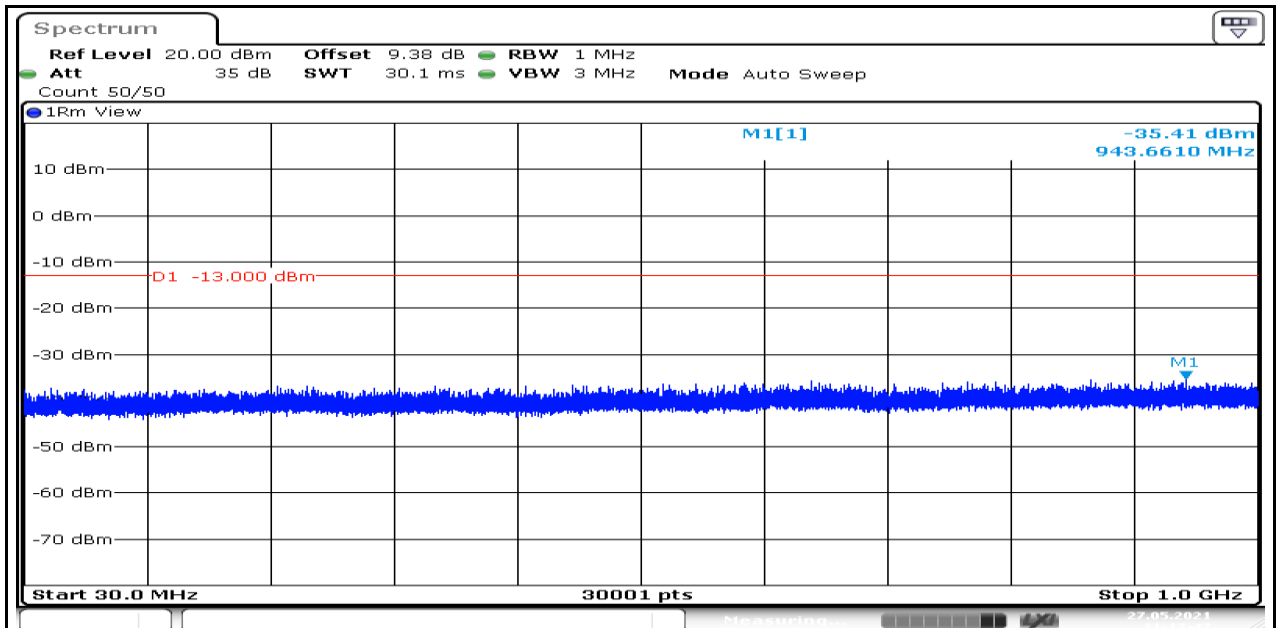
Band2-Stand-Alone-NaN-QPSK-18900-12@0-15kHz-5000-12000-5000~12000MHz@-53.44dBm--13-PASS



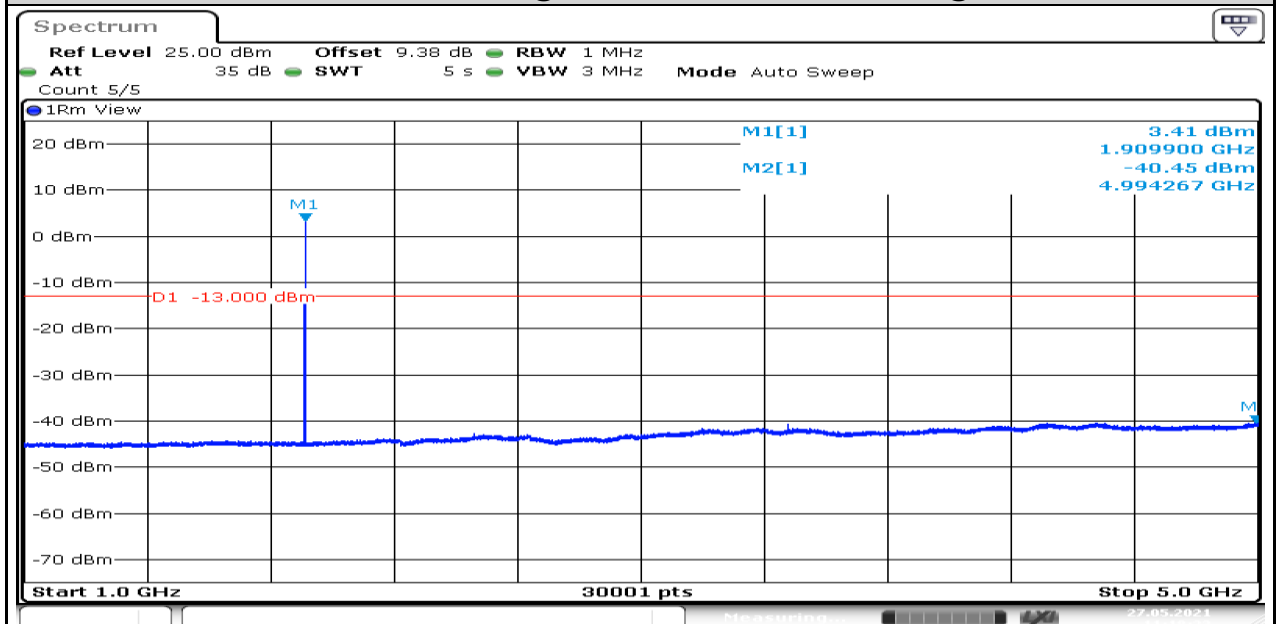
Band2-Stand-Alone-NaN-QPSK-18900-12@0-15kHz-12000-26500-12000~26500MHz@-49.64dBm--13-PASS



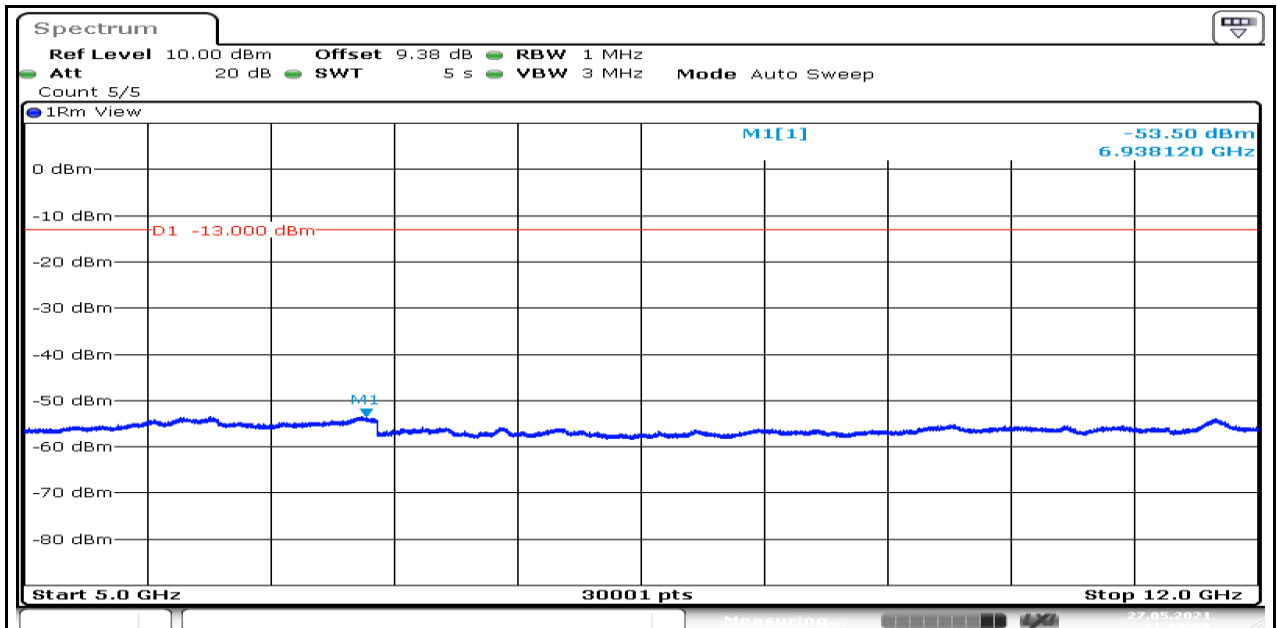
Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-30-1000-30~1000MHz@-35.41dBm--13-PASS



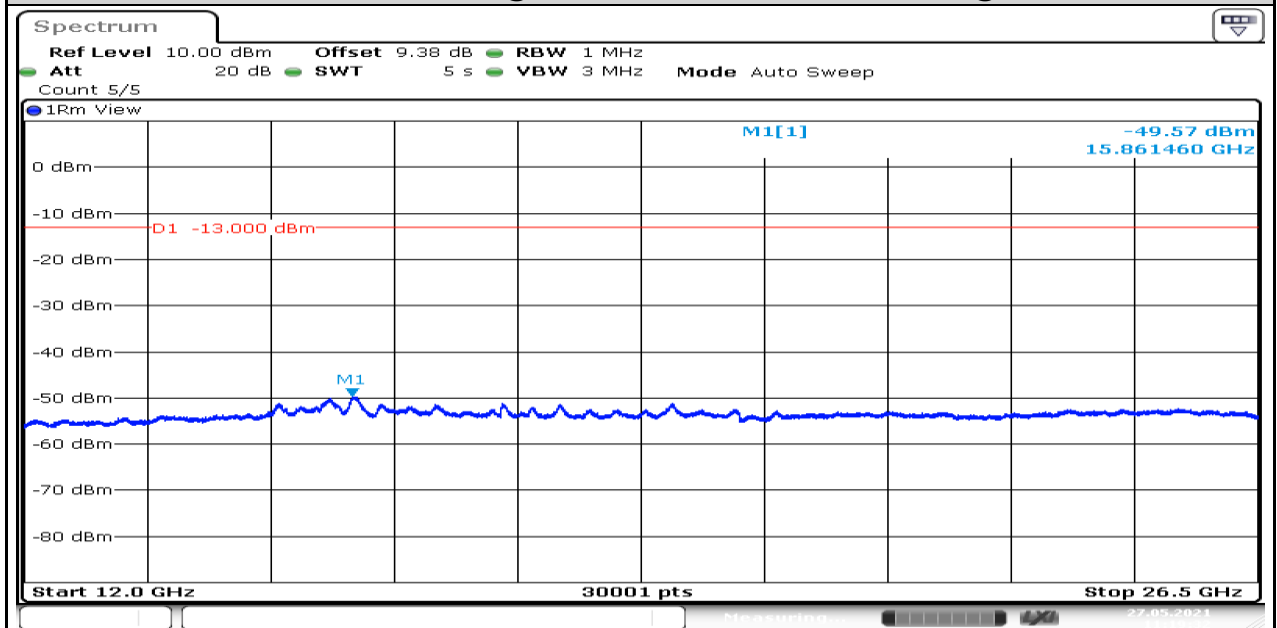
Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-1000-5000-1000~5000MHz@-40.45dBm--13-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-5000-12000-5000~12000MHz@-53.5dBm--13-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-12000-26500-12000~26500MHz@-49.57dBm--13-PASS



APPENDIX A.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
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	HV	NT	-36.54	-0.019436	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	LV	NT	8.97	0.004771	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	NT	-13.66	-0.007266	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	HV	NT	-36.36	-0.019340	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	LV	NT	8.80	0.004681	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	NT	-19.11	-0.010165	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	HV	NT	-14.20	-0.007553	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	LV	NT	8.43	0.004484	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	NT	-13.55	-0.007207	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	HV	NT	-13.18	-0.007011	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	LV	NT	11.32	0.006021	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	NT	-11.23	-0.005973	±2.5	PASS

Temperature												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	50	-17.55	-0.009335	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	-40	-23.85	-0.012686	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	80	-15.16	-0.008064	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	60	-14.45	-0.007686	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	85	-11.37	-0.006048	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	40	-16.19	-0.008612	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	30	-16.09	-0.008559	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	20	-14.16	-0.007532	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	10	-17.94	-0.009543	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	0	-16.94	-0.009011	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	-10	-18.02	-0.009585	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	-20	-18.35	-0.009761	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	-30	-19.96	-0.010617	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@0	NV	70	-16.82	-0.008947	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	20	-16.67	-0.008867	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	70	-15.48	-0.008234	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	60	-15.61	-0.008303	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	50	-17.45	-0.009282	±2.5	PASS

Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	40	-15.71	-0.008356	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	30	-18.00	-0.009574	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	10	-18.07	-0.009612	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	0	-18.24	-0.009702	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	-10	-18.98	-0.010096	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	-20	-18.11	-0.009633	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	80	-16.98	-0.009032	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	-40	-23.56	-0.012532	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	85	-15.66	-0.008330	±2.5	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18900	1@47	NV	-30	-19.83	-0.010548	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	50	-10.90	-0.005798	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	-40	-10.47	-0.005569	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	80	-11.23	-0.005973	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	60	-11.76	-0.006255	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	85	9.67	0.005144	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	40	7.42	0.003947	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	30	-12.20	-0.006489	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	20	-11.50	-0.006117	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	10	8.71	0.004633	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	0	-10.87	-0.005782	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	-10	-11.14	-0.005926	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	-20	-8.25	-0.004388	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	-30	-10.23	-0.005441	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@0	NV	70	-11.29	-0.006005	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	30	-13.40	-0.007128	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	80	-12.00	-0.006383	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	70	-9.24	-0.004915	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	60	-7.52	-0.004000	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	50	-9.46	-0.005032	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	40	7.90	0.004202	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	20	8.45	0.004495	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	10	-15.23	-0.008101	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	0	8.70	0.004628	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	-10	-15.59	-0.008293	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	-20	-11.54	-0.006138	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	-40	-13.50	-0.007181	±2.5	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	85	-9.01	-0.004793	±2.5	PASS

Band2	Stand-Alone	15kHz	NaN	QPSK	18900	1@11	NV	-30	-11.83	-0.006293	±2.5	PASS
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