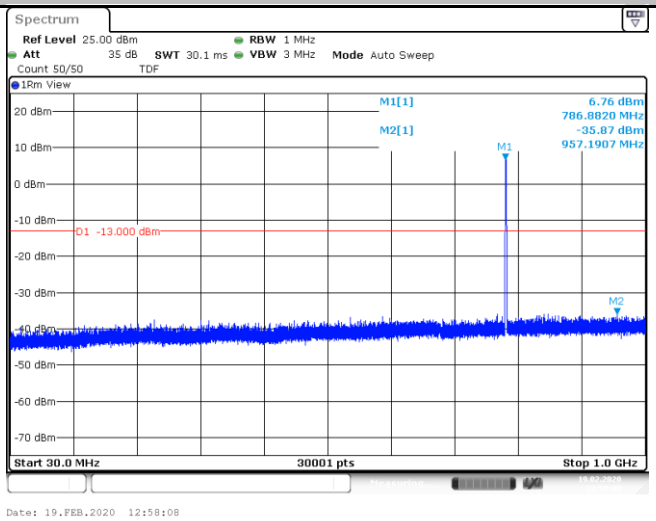
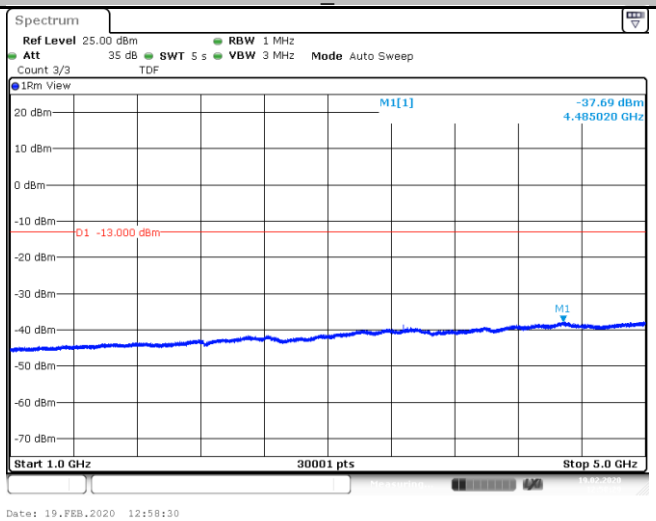
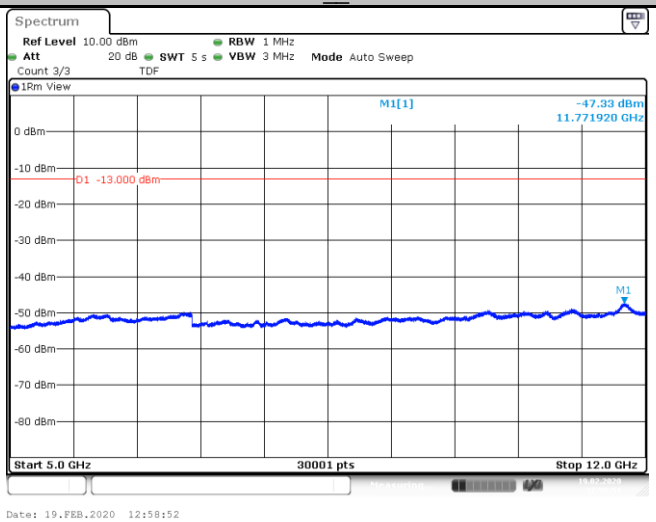
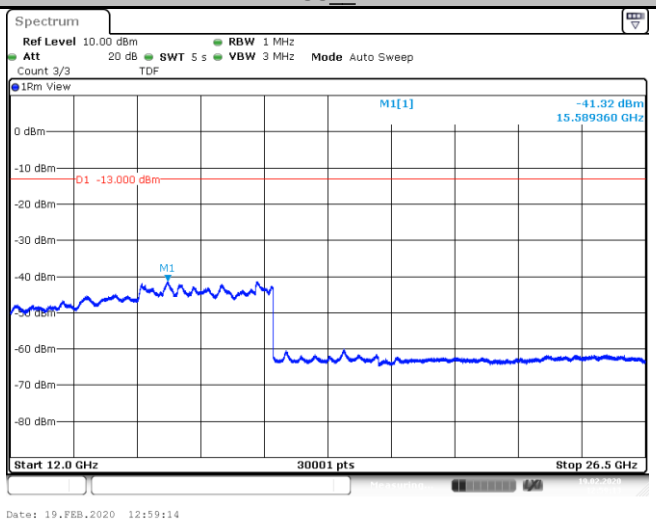
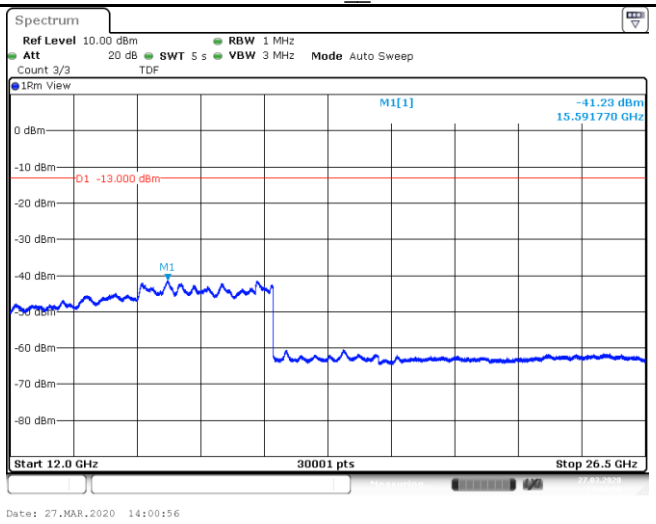
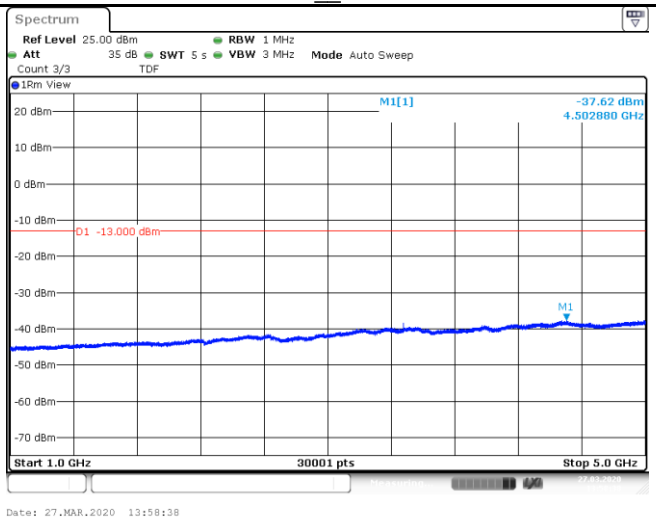
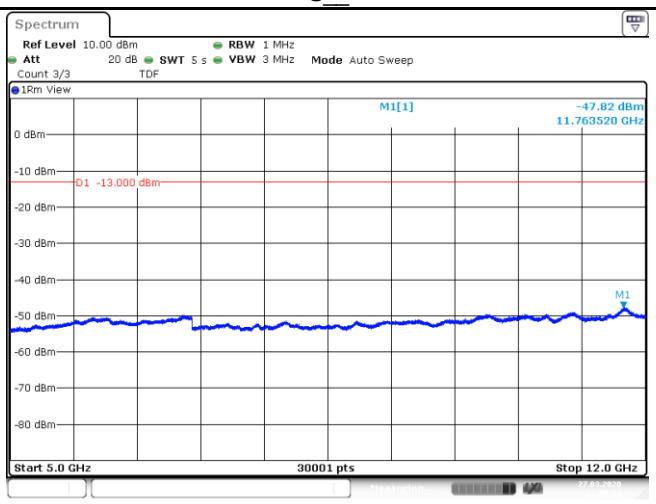
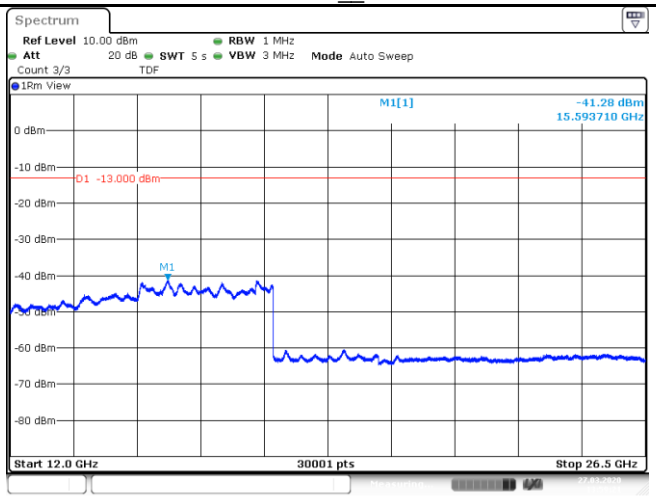
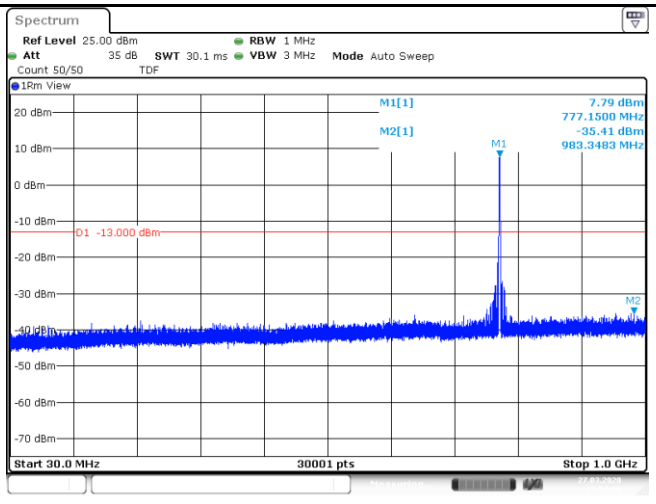
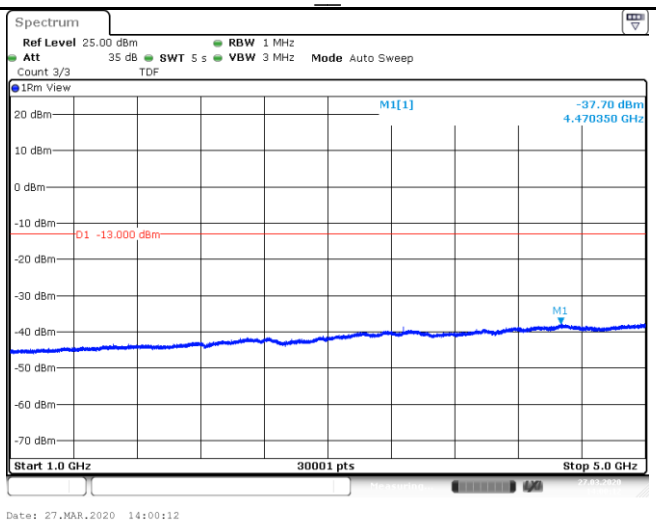
Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_30_1000_30~1000MHz@-35.87dBm_-13_PASS__

Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_1000_5000_1000~5000MHz@-37.69dBm_-13_PASS_ _

Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_5000_12000_5000~12000MHz@-47.33dBm_-13_PASS__


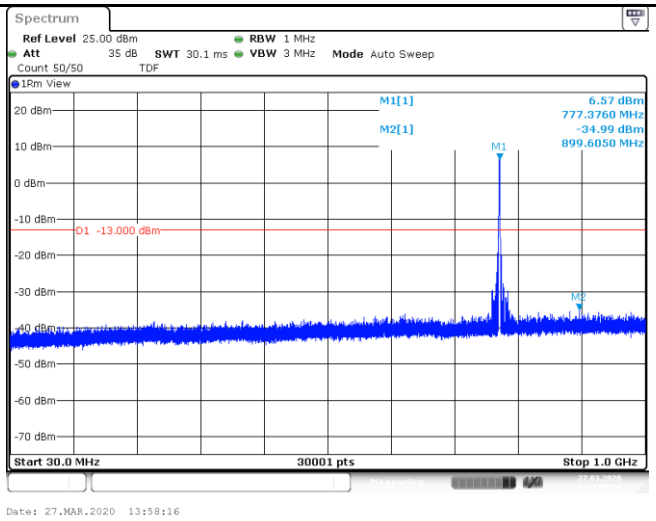
Band13_Stand-Alone_NaN_BPSK_23279_1@11_15kHz_12000_26500_12000~26500MHz@-41.32dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23181_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.23dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23181_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.62dBm_-13_PASS__


Band13_Stand-Alone_NaN_QPSK_23181_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.82dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23181_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.28dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23181_1@47_3.75kHz_30_1000_30~1000MHz@-35.41dBm_-13_PASS__


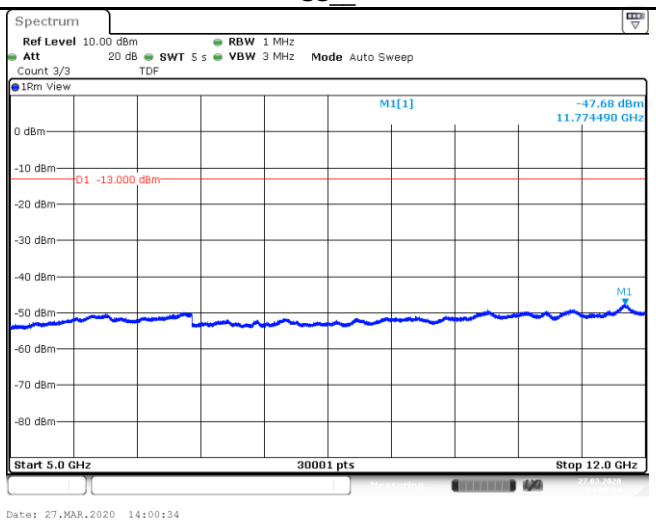
Band13_Stand-Alone_NaN_QPSK_23181_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.7dBm_-13_PASS__

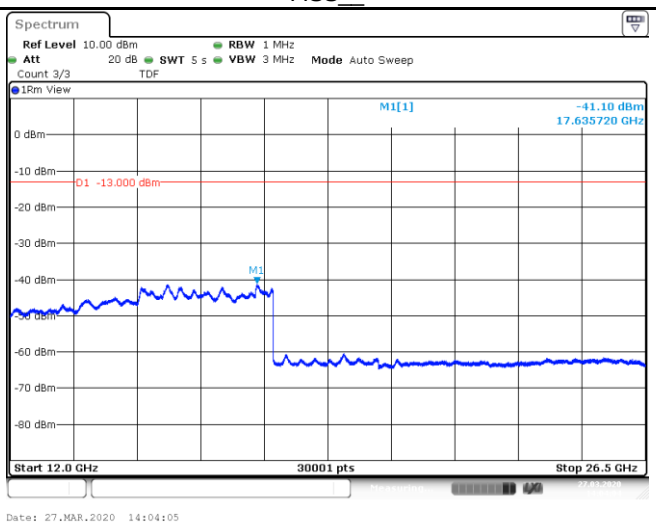
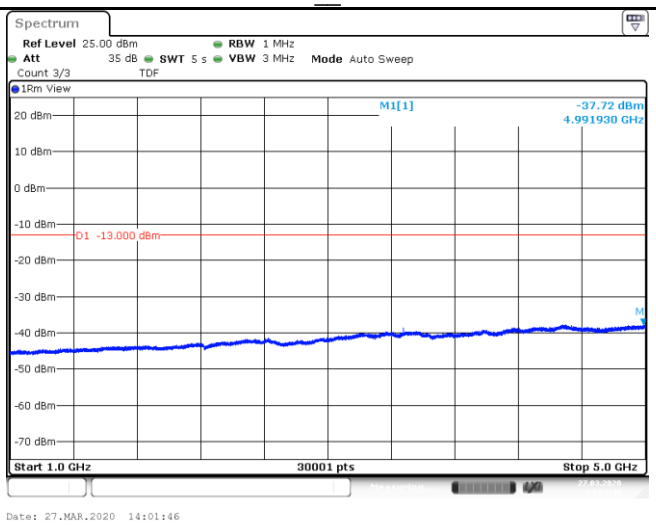
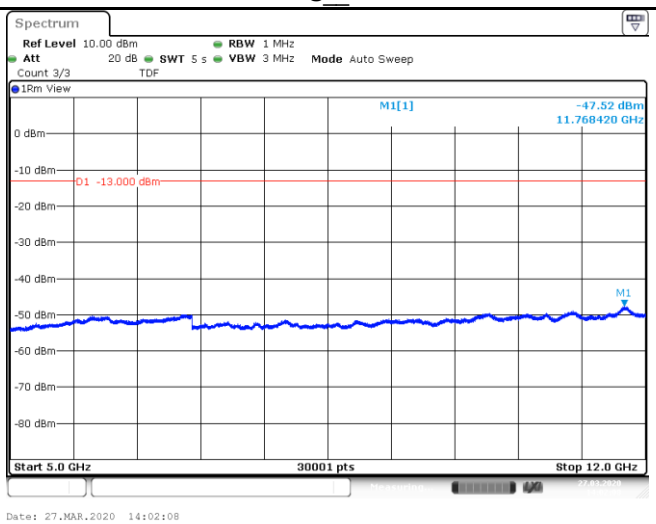


Band13_Stand-Alone_NaN_QPSK_23181_1@0_3.75kHz_30_1000_30~1000MHz@-34.99dBm_-13_PASS__

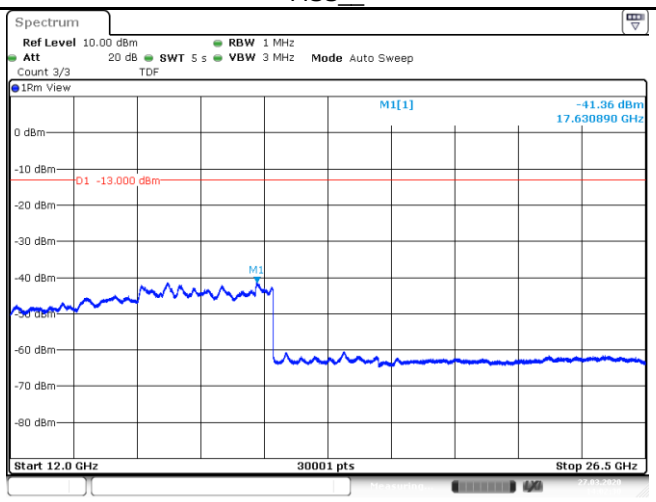


Band13_Stand-Alone_NaN_QPSK_23181_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.68dBm_-13_PASS__

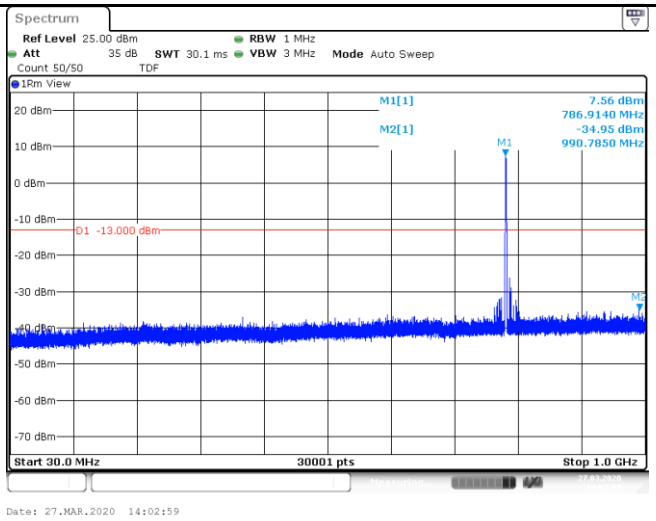


Band13_Stand-Alone_NaN_QPSK_23279_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.1dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.72dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.52dBm_-13_PASS__


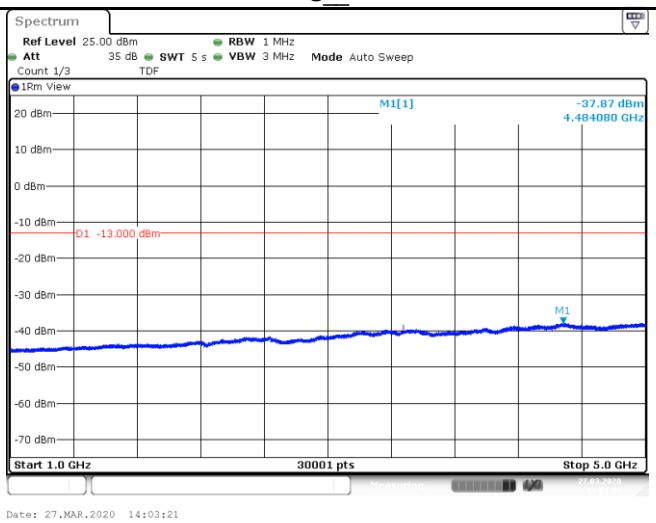
Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.36dBm_-13_PASS__

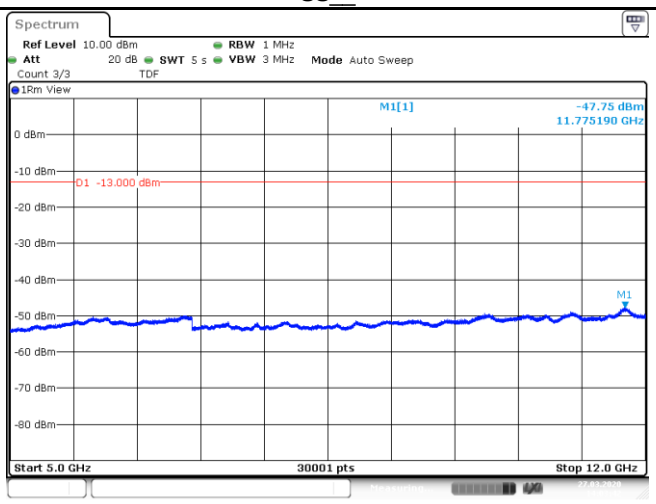
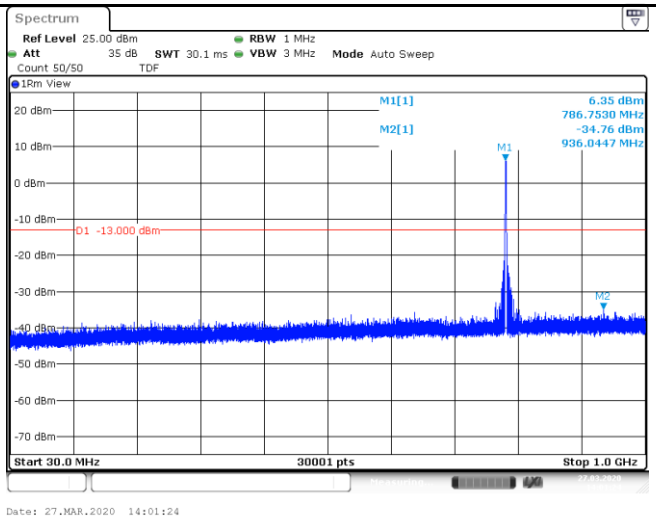
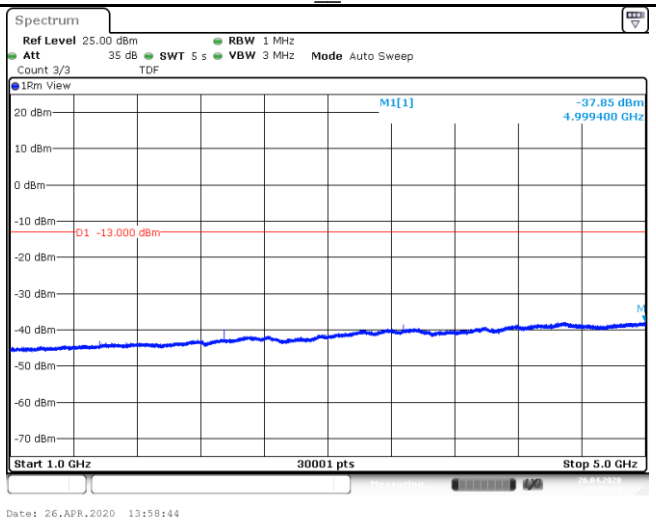


Band13_Stand-Alone_NaN_QPSK_23279_1@47_3.75kHz_30_1000_30~1000MHz@-34.95dBm_-13_PASS__

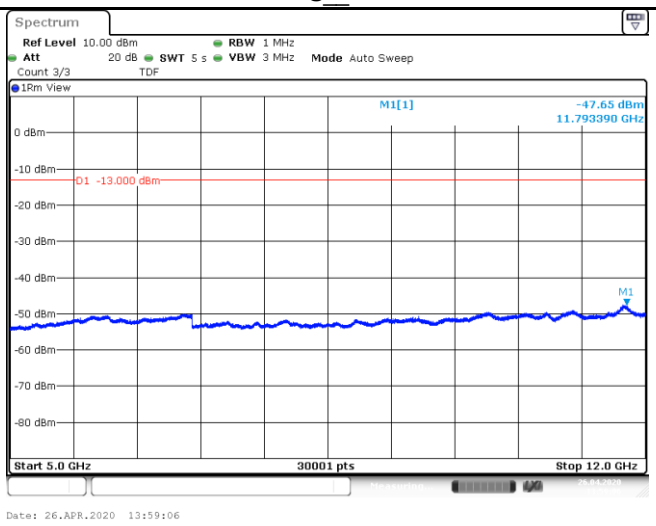


Band13_Stand-Alone_NaN_QPSK_23279_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.87dBm_-13_PASS__

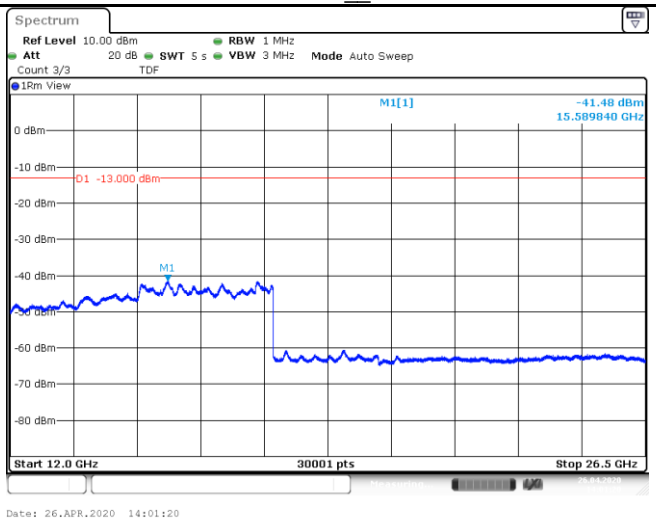


Band13_Stand-Alone_NaN_QPSK_23279_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.75dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23279_1@0_3.75kHz_30_1000_30~1000MHz@-34.76dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.85dBm_-13_PASS__


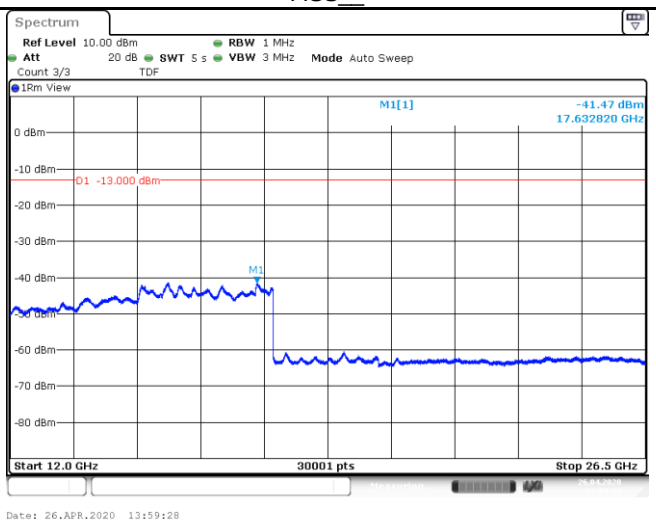
Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.65dBm_-13_PASS__

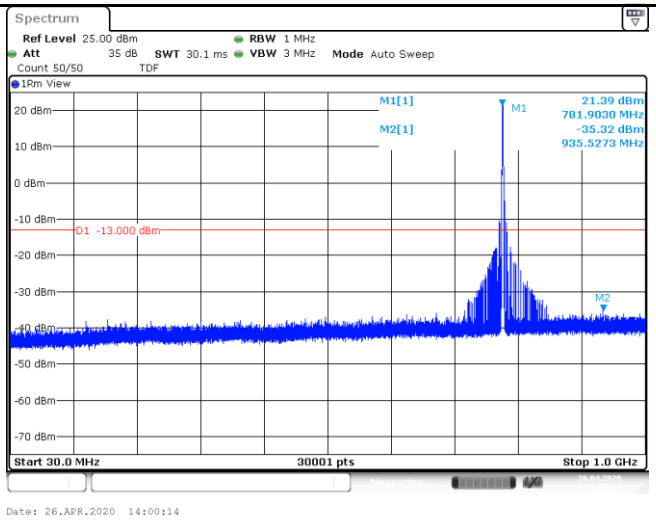
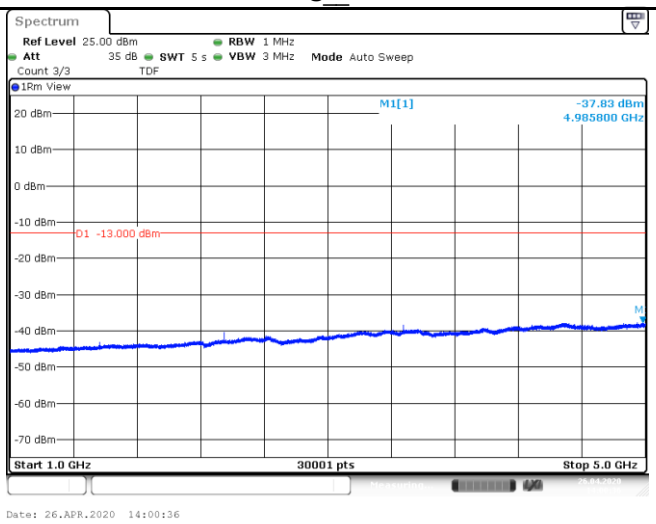
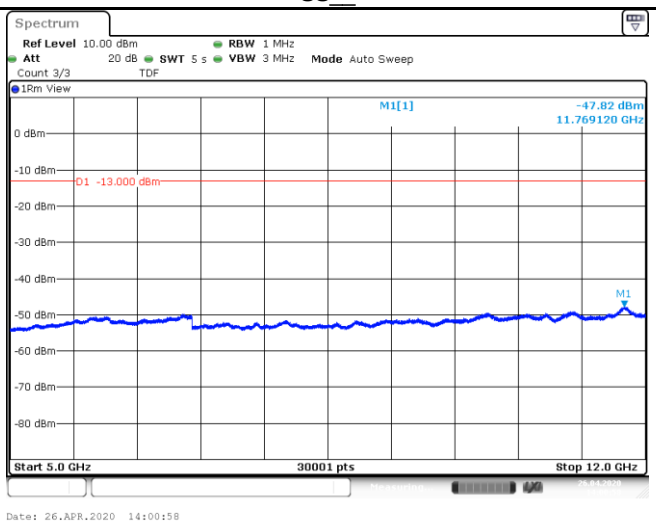


Band13_Stand-Alone_NaN_QPSK_23230_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PASS__

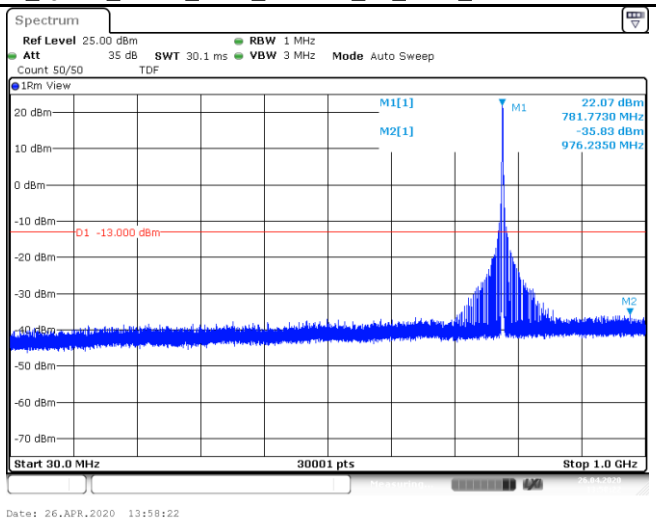


Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.47dBm_-13_PASS__



Band13_Stand-Alone_NaN_QPSK_23230_1@47_3.75kHz_30_1000_30~1000MHz@-35.32dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23230_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.83dBm_-13_PASS__

Band13_Stand-Alone_NaN_QPSK_23230_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.82dBm_-13_PASS__


Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_30_1000_30~1000MHz@-35.83dBm_-13_PASS__



Appendix E.6: Frequency Stability for NB
Test Result

Voltage												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	HV	NT	-14.85	-0.018990	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	LV	NT	-12.79	-0.016355	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	NT	-15.36	-0.019642	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	HV	NT	-15.86	-0.020281	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	LV	NT	-16.58	-0.021202	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	NT	-17.14	-0.021918	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	HV	NT	-7.27	-0.009297	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	LV	NT	-7.21	-0.009220	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	NT	-7.22	-0.009233	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	HV	NT	-6.88	-0.008798	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	LV	NT	-8.18	-0.010460	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	NT	-8.01	-0.010243	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-40	-15.45	-0.019757	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-30	-16.09	-0.020575	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-20	-16.25	-0.020780	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-10	-15.68	-0.020051	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	0	-15.61	-0.019962	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	10	-11.69	-0.014949	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	20	-14.06	-0.017980	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	30	-14.42	-0.018440	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	40	-14.35	-0.018350	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	50	-15.99	-0.020448	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	60	-15.34	-0.019616	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	70	-13.78	-0.017621	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	-40	-14.36	-0.018363	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	85	-19.98	-0.025550	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	85	-16.71	-0.021368	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-30	-16.67	-0.021317	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-20	-14.25	-0.018223	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	-10	-13.53	-0.017302	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	0	-11.89	-0.015205	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	10	-14.31	-0.018299	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	20	-13.03	-0.016662	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	30	-15.38	-0.019668	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	40	-12.70	-0.016240	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	50	-12.66	-0.016189	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	60	-14.48	-0.018517	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	70	-14.00	-0.017903	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	NV	80	-13.16	-0.016829	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	NV	80	-14.22	-0.018184	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-40	-6.92	-0.008849	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-30	-6.38	-0.008159	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-20	-4.49	-0.005742	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-10	-4.75	-0.006074	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	0	-6.59	-0.008427	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	10	-5.34	-0.006829	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	20	-6.17	-0.007890	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	30	-5.78	-0.007391	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	40	-4.19	-0.005358	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	50	-3.23	-0.004130	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	60	-5.82	-0.007442	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	70	-6.08	-0.007775	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	-40	-6.19	-0.007916	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	85	-6.44	-0.008235	±2.5	PASS

Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	85	-3.40	-0.004348	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-30	-7.32	-0.009361	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-20	-6.11	-0.007813	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	-10	-6.77	-0.008657	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	0	-6.72	-0.008593	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	10	-5.68	-0.007263	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	20	-4.86	-0.006215	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	30	-5.42	-0.006931	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	40	-6.47	-0.008274	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	50	-5.42	-0.006931	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	60	-5.84	-0.007468	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	70	-5.06	-0.006471	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	NV	80	-4.45	-0.005691	±2.5	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	NV	80	-5.78	-0.007391	±2.5	PASS

Appendix F: Test Results of Band 25 for NB-IoT operation

Appendix F.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for NB

Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	EIRP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	12.40	14.54	0.028	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@11	15kHz	12.26	14.4	0.028	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	3@3	15kHz	12.35	14.49	0.028	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@11	15kHz	21.24	23.38	0.218	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	3@3	15kHz	23.64	25.78	0.378	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@0	15kHz	21.26	23.4	0.219	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@11	15kHz	22.92	25.06	0.321	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	22.98	25.12	0.325	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	3@3	15kHz	23.74	25.88	0.387	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	3@3	15kHz	23.86	26	0.398	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@0	15kHz	21.5	23.64	0.231	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@11	15kHz	21.5	23.64	0.231	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@11	15kHz	11.99	14.13	0.026	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	3@3	15kHz	12.17	14.31	0.027	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	12.04	14.18	0.026	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	12.13	14.27	0.027	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	3@3	15kHz	12.35	14.49	0.028	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	12.25	14.39	0.027	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@11	15kHz	21.31	23.45	0.221	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@0	15kHz	21.2	23.34	0.216	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	3@3	15kHz	21.56	23.7	0.234	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	22.78	24.92	0.310	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	22.83	24.97	0.314	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	3@3	15kHz	23.73	25.87	0.386	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@0	15kHz	21.51	23.65	0.232	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@11	15kHz	21.54	23.68	0.233	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	3@3	15kHz	21.97	24.11	0.258	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	11.83	13.97	0.025	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	3@3	15kHz	12.16	14.3	0.027	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	12.01	14.15	0.026	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	6.56	8.7	0.007	2	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	6.57	8.71	0.007	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@0	3.75kHz	24.26	26.4	0.437	2	PASS
Band25	Stand-Alone	NaN	QPSK	26042	1@47	3.75kHz	24.21	26.35	0.432	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@0	3.75kHz	24.17	26.31	0.428	2	PASS
Band25	Stand-Alone	NaN	QPSK	26688	1@47	3.75kHz	24.16	26.3	0.427	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	6.42	8.56	0.007	2	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	6.44	8.58	0.007	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@47	3.75kHz	6.48	8.62	0.007	2	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	6.47	8.61	0.007	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@0	3.75kHz	24.20	26.34	0.431	2	PASS
Band25	Stand-Alone	NaN	BPSK	26042	1@47	3.75kHz	24.16	26.3	0.427	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@47	3.75kHz	24.08	26.22	0.419	2	PASS
Band25	Stand-Alone	NaN	BPSK	26688	1@0	3.75kHz	24.08	26.22	0.419	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@47	3.75kHz	6.31	8.45	0.007	2	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	6.34	8.48	0.007	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	24.44	26.58	0.455	2	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	24.41	26.55	0.452	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@47	3.75kHz	24.33	26.47	0.444	2	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	24.36	26.5	0.447	2	PASS

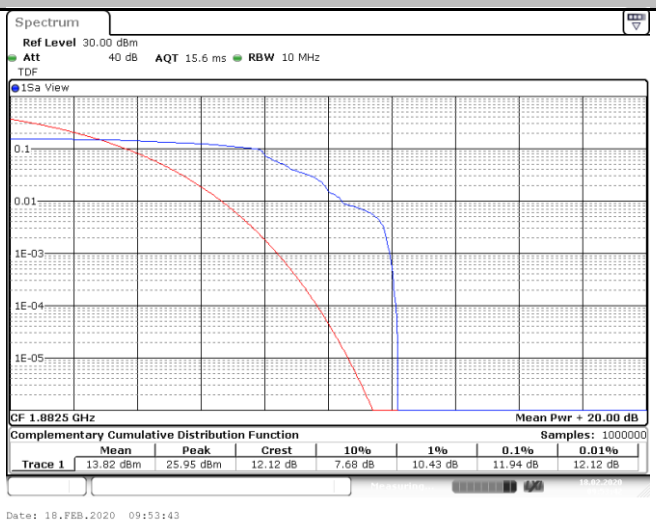
Appendix F.2: Peak-to-Average Ratio(CCDF) for NB

Test Result

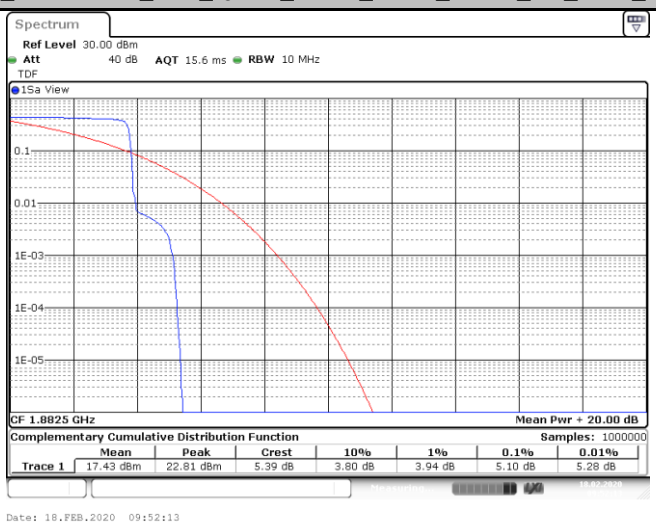
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band25	Stand-Alone	NaN	QPSK	26365	3@3	15kHz	11.94	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@11	15kHz	5.1	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	12.87	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	3@3	15kHz	10.55	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	2.29	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	1.83	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	2.46	<=13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	1.74	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@47	3.75kHz	2.03	<=13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	5.86	<=13	PASS

Test Graphs

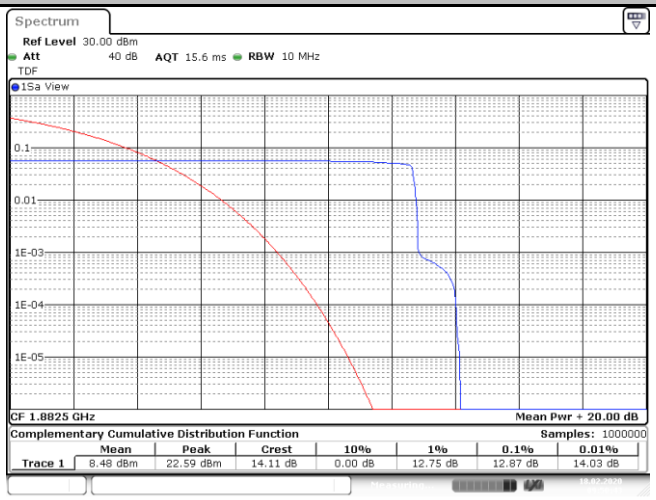
Band25_Stand-Alone_NaN_QPSK_26365_3@3_15kHz_11.94_<=13_PASS__



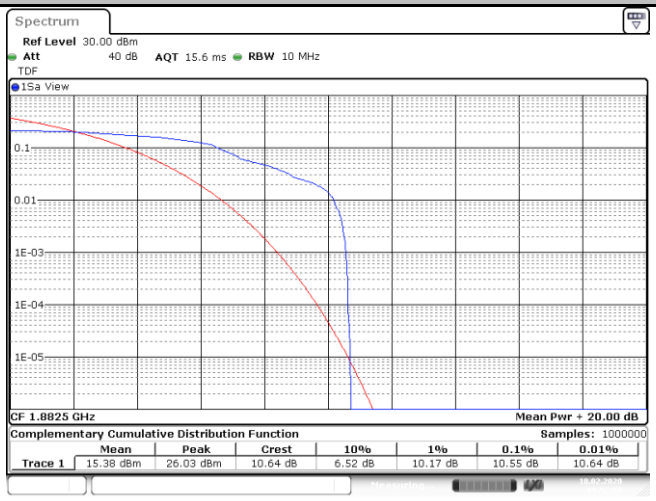
Band25_Stand-Alone_NaN_QPSK_26365_1@11_15kHz_5.1_<=13_PASS__



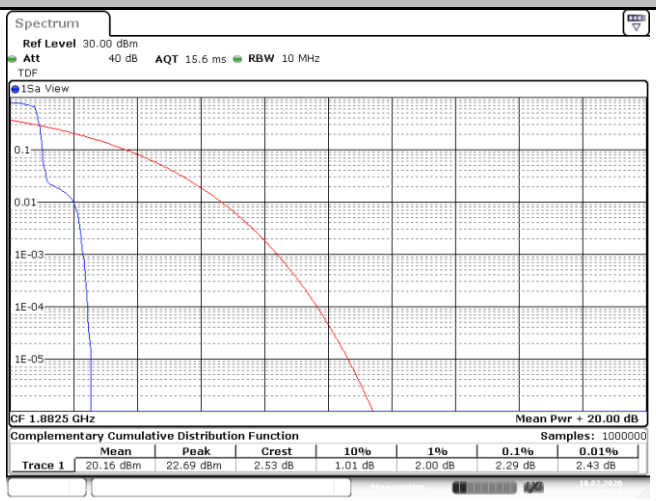
Band25_Stand-Alone_NaN_QPSK_26365_1@0_15kHz_12.87_<=13_PASS__

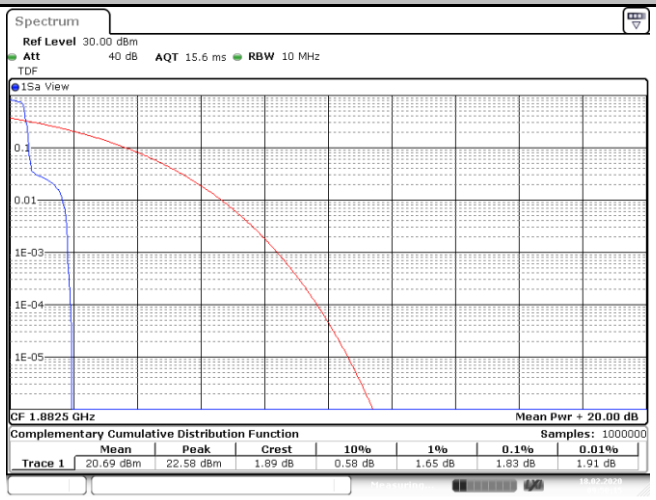


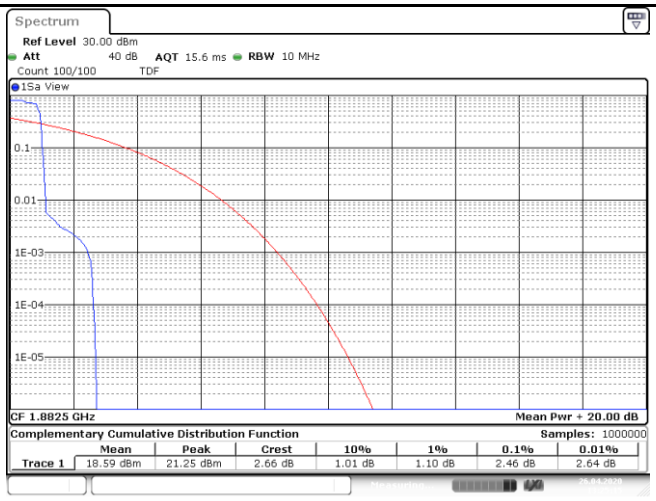
Band25_Stand-Alone_NaN_BPSK_26365_3@3_15kHz_10.55_<=13_PASS__

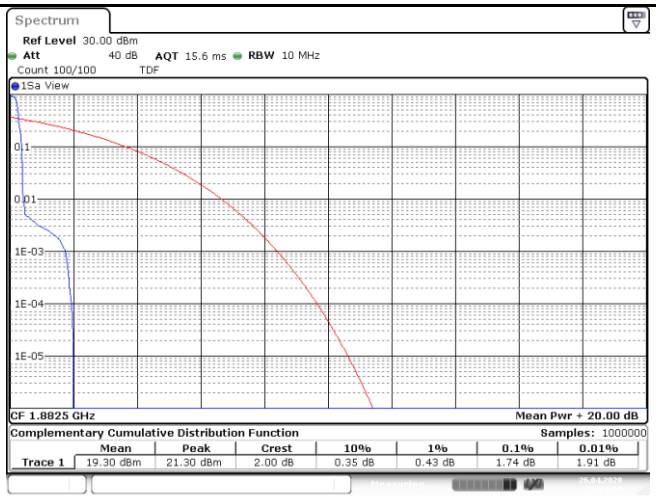


Band25_Stand-Alone_NaN_BPSK_26365_1@11_15kHz_2.29_<=13_PASS__

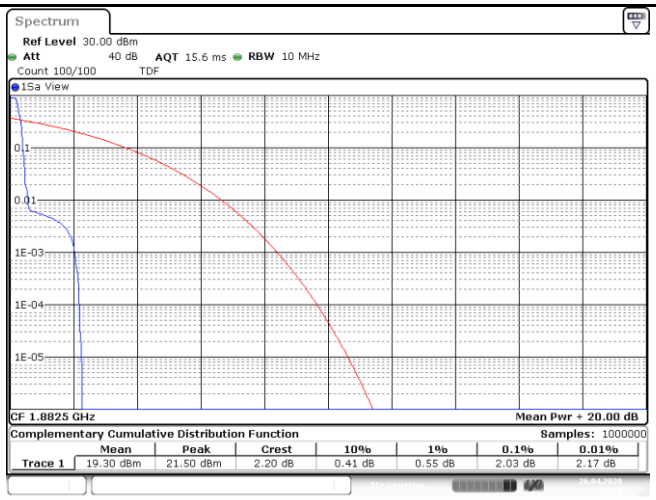


Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_1.83_<=13_PASS__


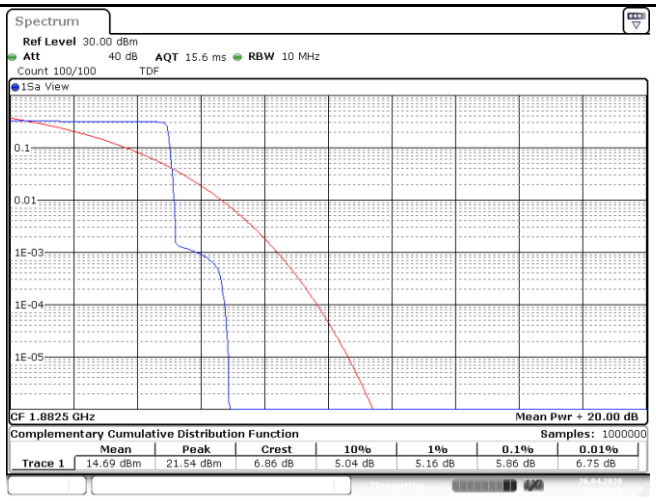
Band25_Stand-Alone_NaN_QPSK_26365_1@47_3.75kHz_2.46_<=13_PASS__


Band25_Stand-Alone_NaN_QPSK_26365_1@0_3.75kHz_1.74_<=13_PASS__


Band25_Stand-Alone_NaN_BPSK_26365_1@47_3.75kHz_2.03_<=13_PASS__



Band25_Stand-Alone_NaN_BPSK_26365_1@0_3.75kHz_5.86_<=13_PASS__

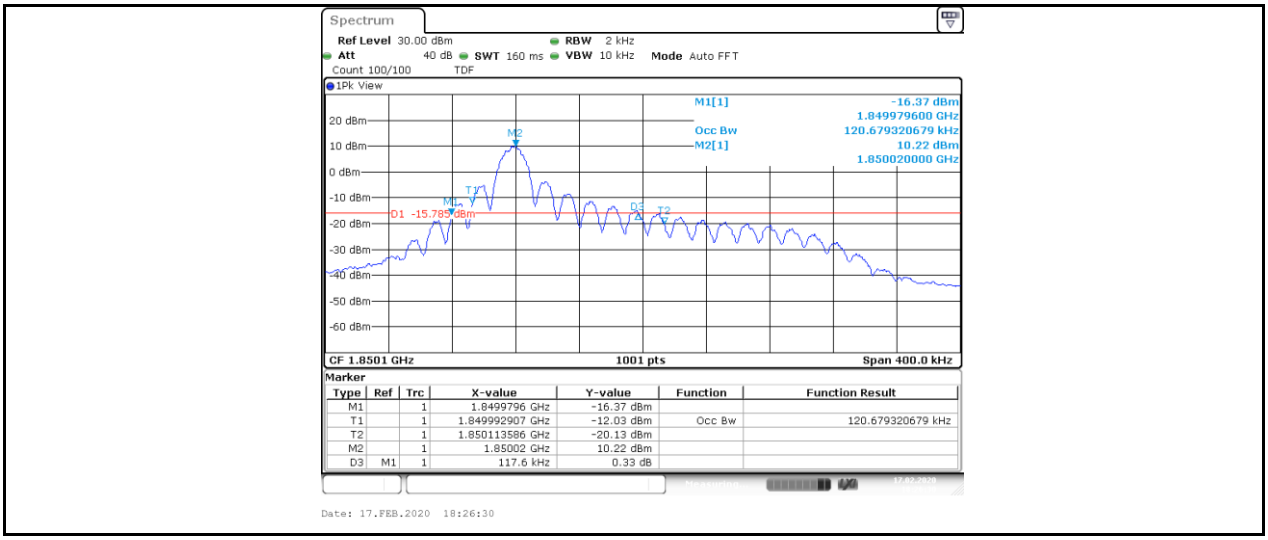


Appendix F.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

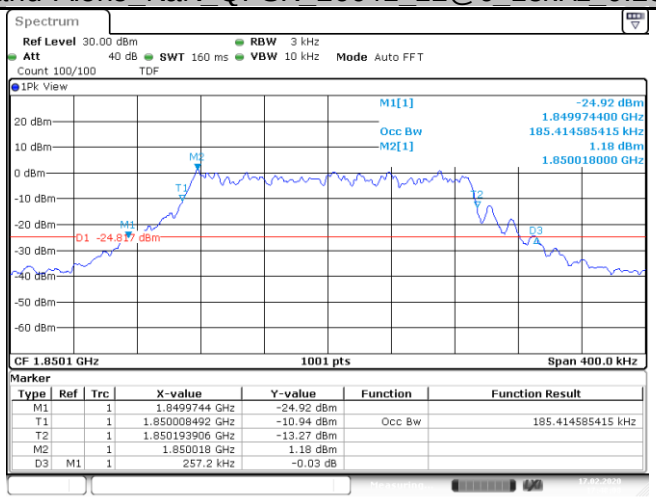
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	0.118	0.121	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	0.257	0.185	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	15kHz	0.118	0.121	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	0.262	0.186	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	0.118	0.121	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	0.257	0.185	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	0.107	0.129	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	0.106	0.129	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	0.106	0.130	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	0.038	0.054	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	0.038	0.054	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	0.036	0.058	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	0.036	0.058	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	0.037	0.052	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	3.75kHz	0.032	0.056	PASS

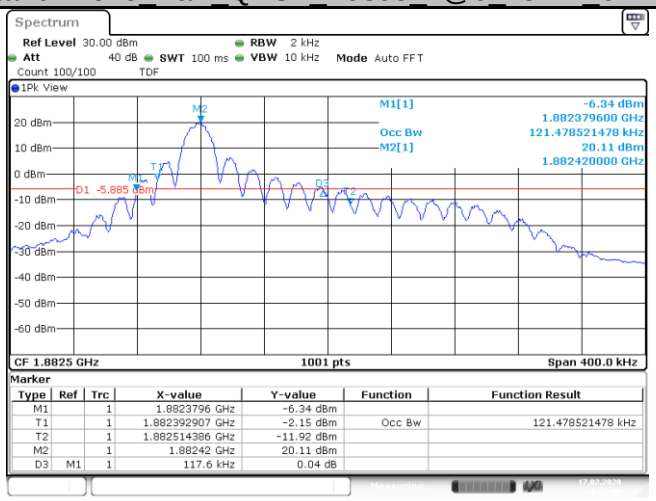
Test Graphs



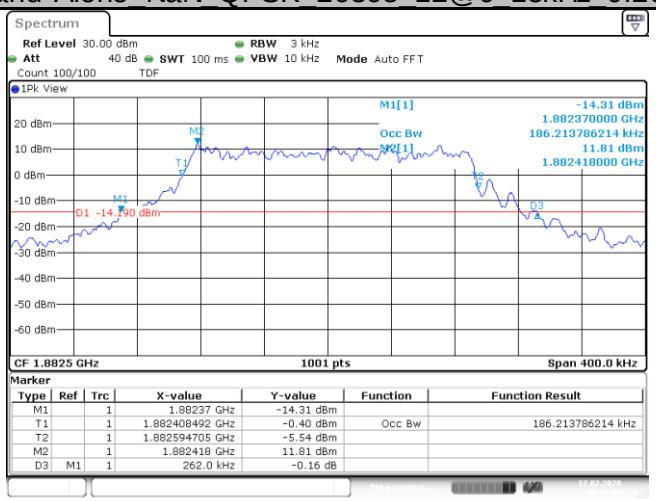
Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_0.257_PASS



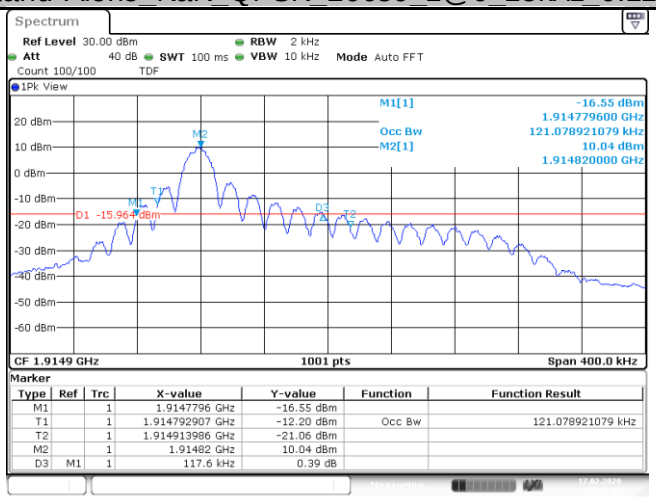
Band25_Stand-Alone_NaN_QPSK_26365_1@0_15kHz_0.118_PASS



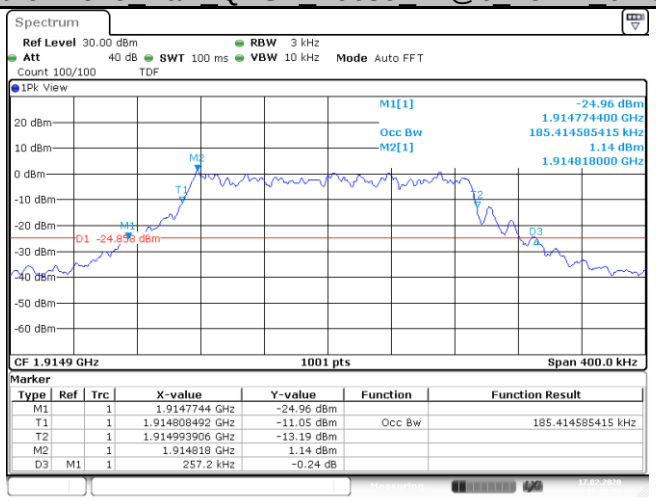
Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_0.262_PASS



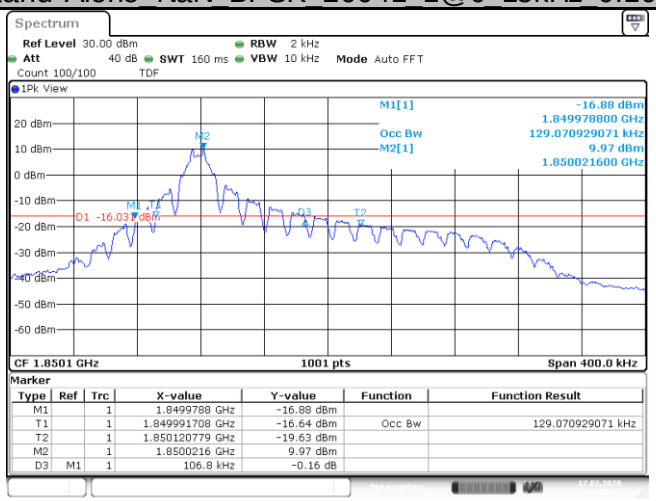
Band25_Stand-Alone_NaN_QPSK_26689_1@0_15kHz_0.118_PASS



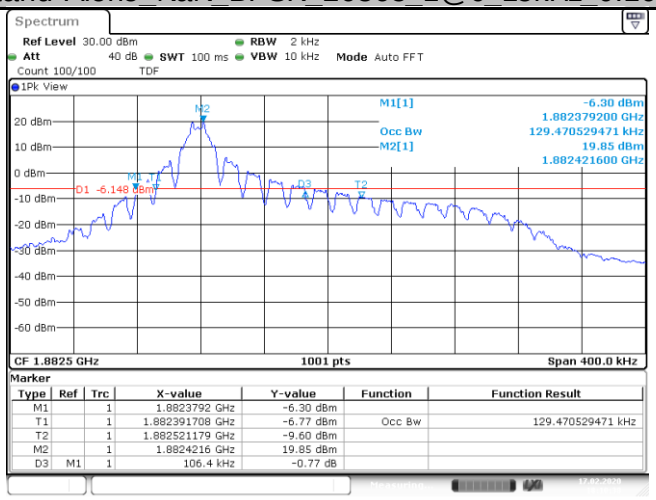
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_0.257_PASS



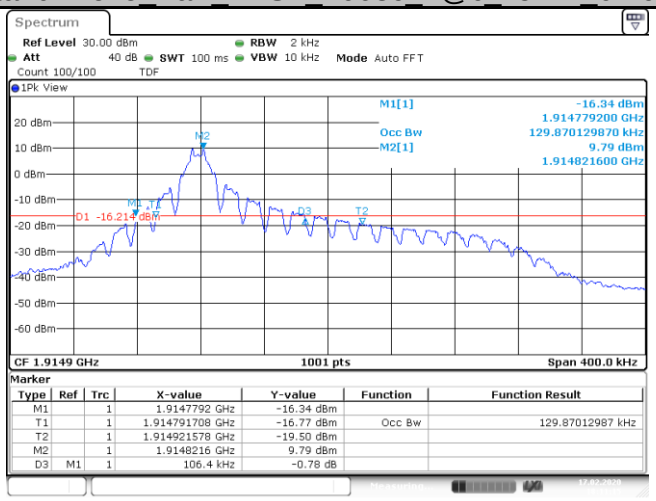
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_0.107_PASS



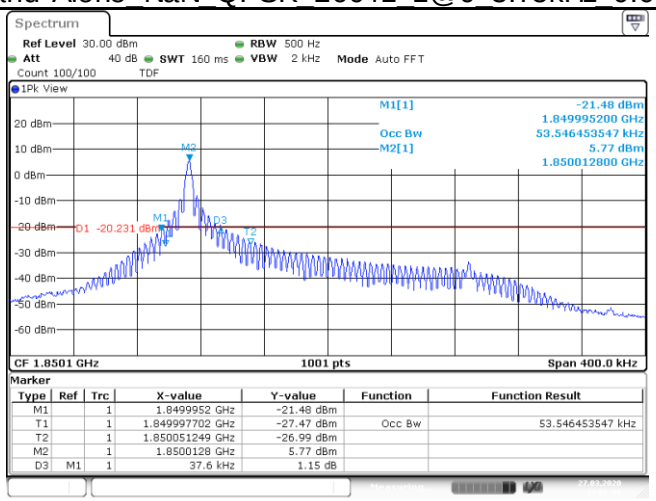
Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_0.106_PASS



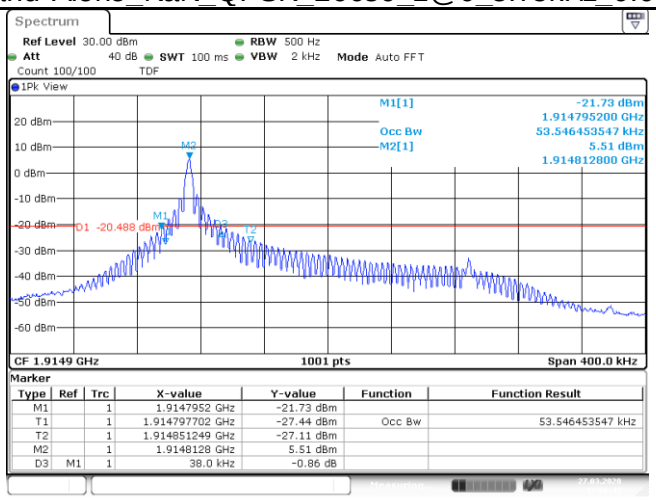
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_0.106_PASS



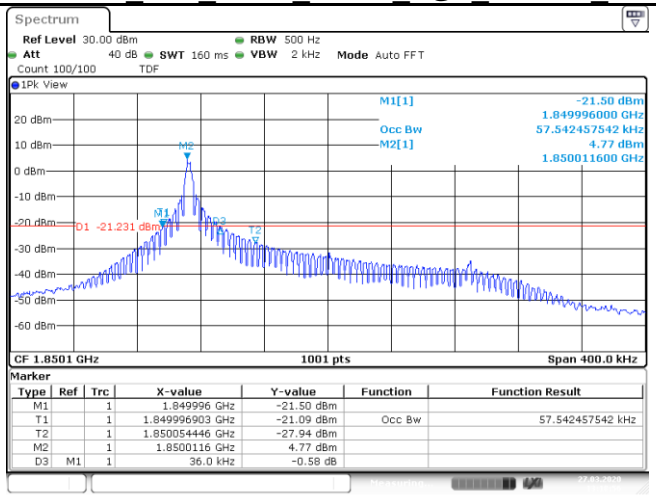
Band25_Stand-Alone_NaN_QPSK_26041_1@0_3.75kHz_0.038_PASS



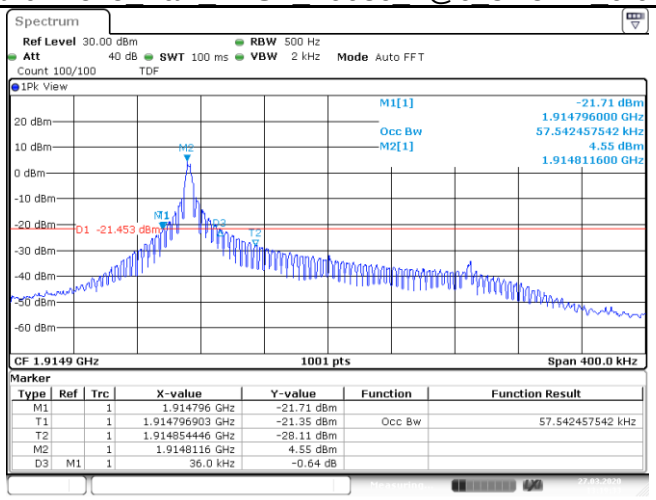
Band25_Stand-Alone_NaN_QPSK_26689_1@0_3.75kHz_0.038_PASS__



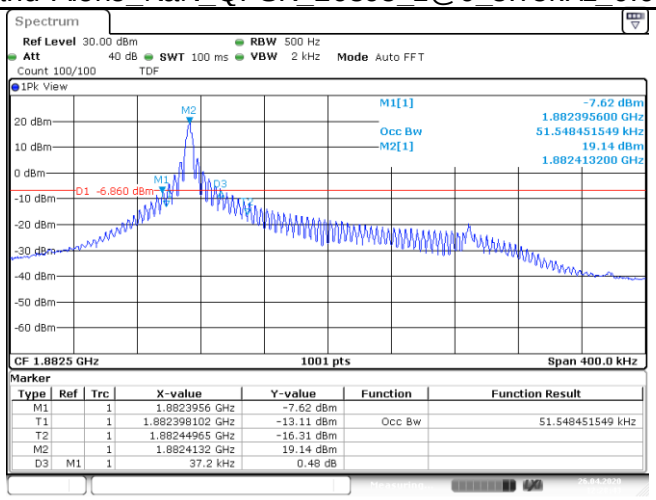
Band25_Stand-Alone_NaN_BPSK_26041_1@0_3.75kHz_0.036_PASS__



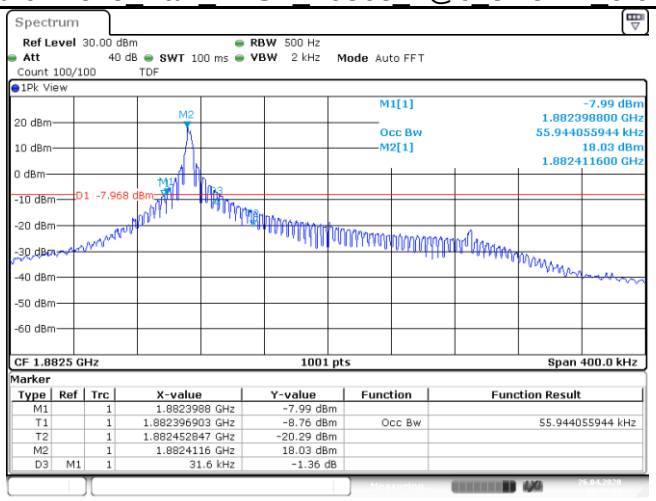
Band25_Stand-Alone_NaN_BPSK_26689_1@0_3.75kHz_0.036_PASS__



Band25_Stand-Alone_NaN_QPSK_26365_1@0_3.75kHz_0.037_PASS



Band25_Stand-Alone_NaN_BPSK_26365_1@0_3.75kHz_0.032_PASS



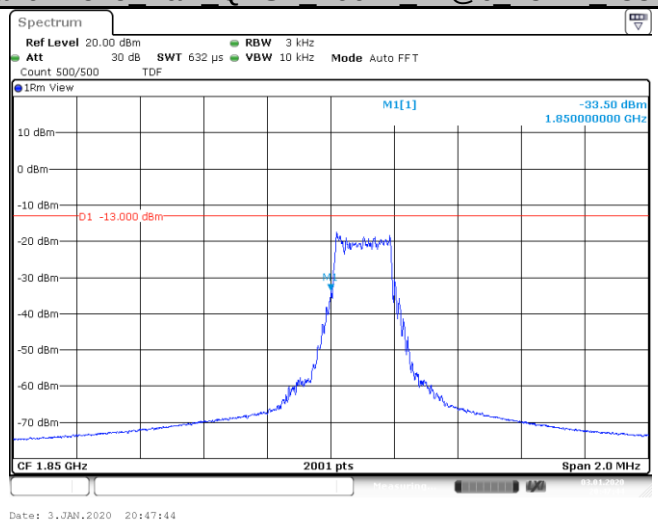
Appendix F.4: Band Edge for NB

Test Result

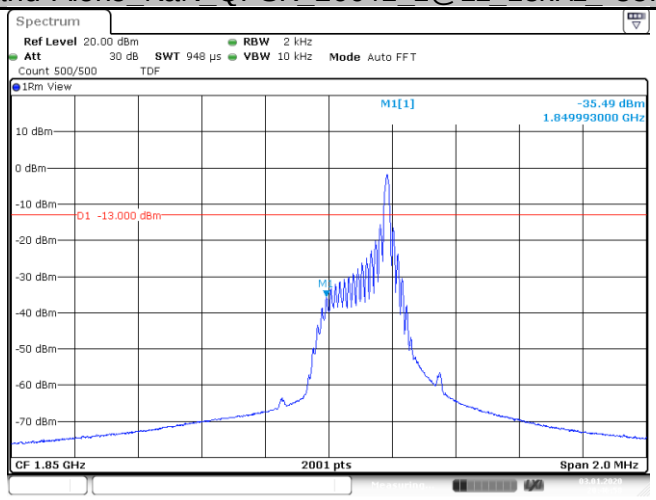
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	-33.50	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@11	15kHz	-35.49	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	15kHz	-17.80	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	-31.41	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@11	15kHz	-16.79	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	15kHz	-35.93	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	-34.20	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	-15.18	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	-15.85	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	-34.64	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	-48.59	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	-27.25	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	-27.72	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	-48.17	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@47	3.75kHz	-47.01	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	3.75kHz	-25.54	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@47	3.75kHz	-26.49	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	3.75kHz	-47.14	PASS

Test Graphs

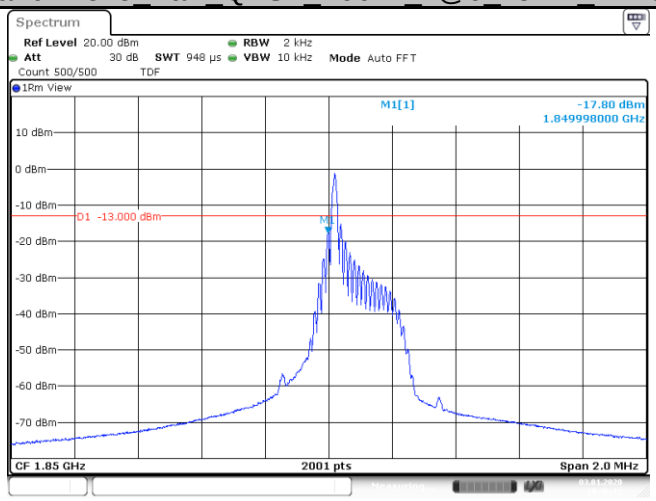
Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_-33.50_PASS



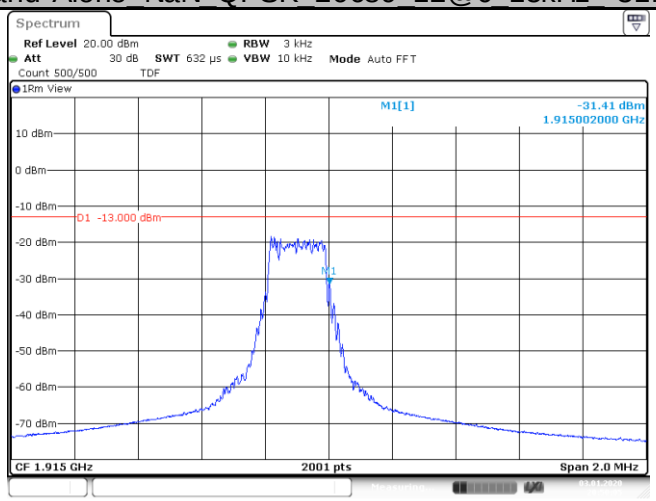
Band25_Stand-Alone_NaN_QPSK_26041_1@11_15kHz_-35.49_PASS



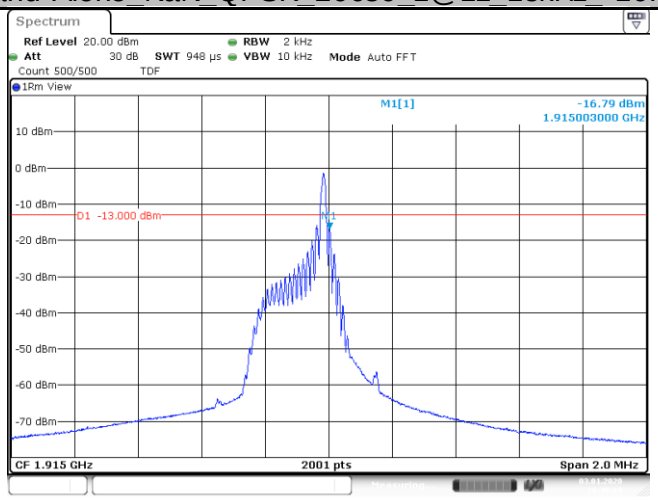
Band25_Stand-Alone_NaN_QPSK_26041_1@0_15kHz_-17.80_PASS



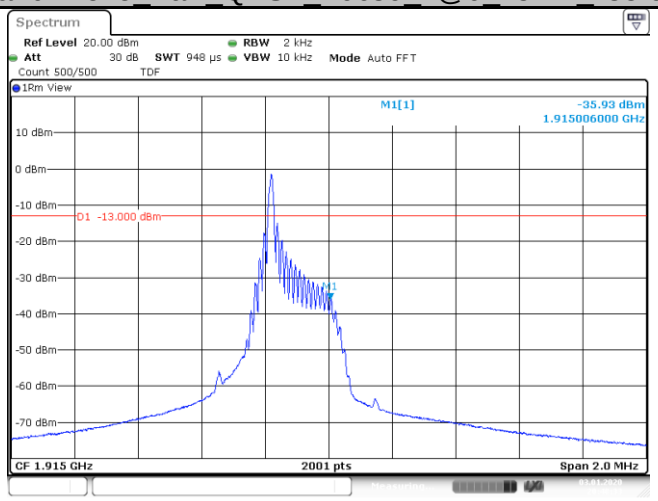
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_-31.41_PASS



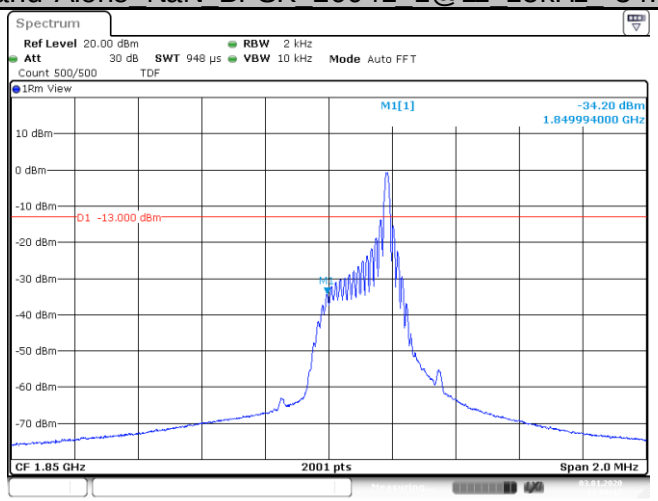
Band25_Stand-Alone_NaN_QPSK_26689_1@11_15kHz_-16.79_PASS



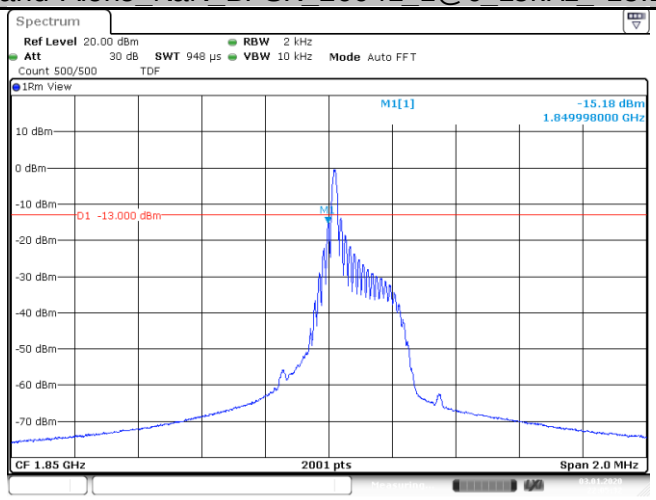
Band25_Stand-Alone_NaN_QPSK_26689_1@0_15kHz_-35.93_PASS



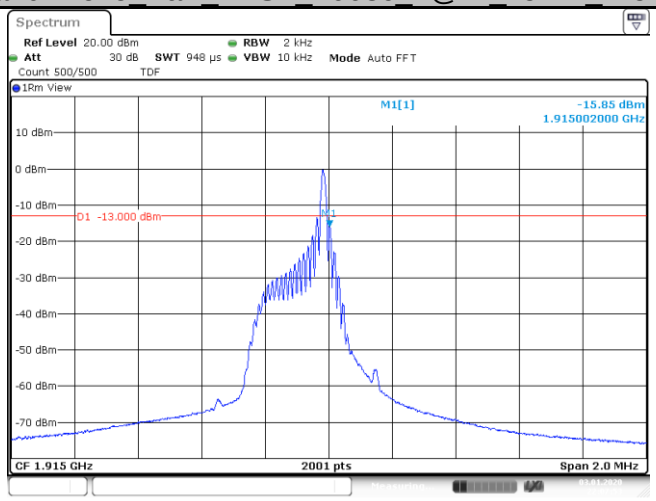
Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_-34.20_PASS



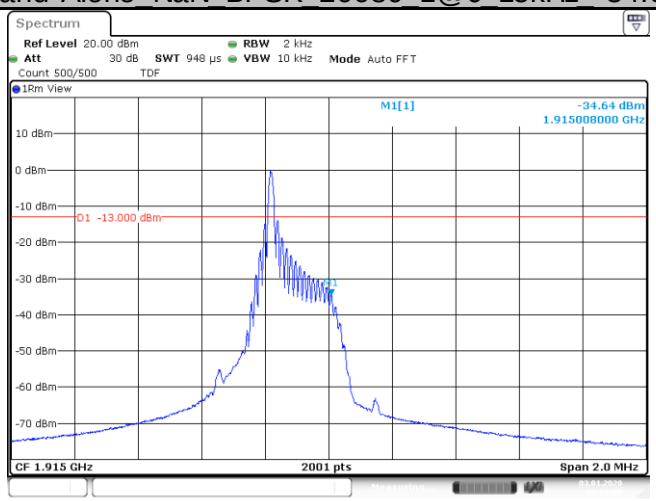
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_-15.18_PASS



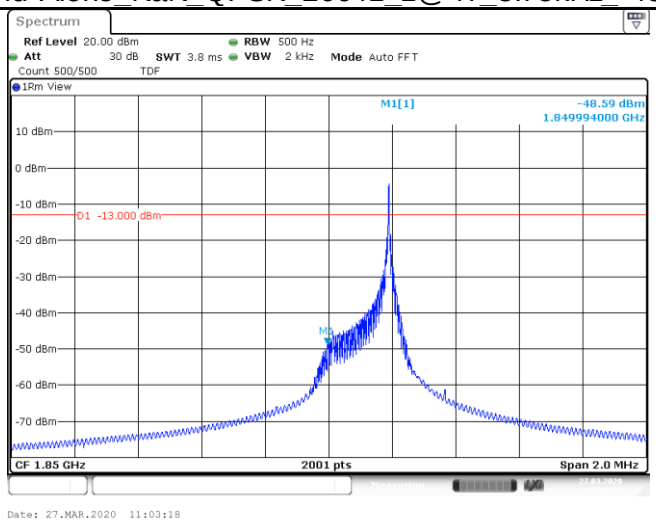
Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_-15.85_PASS



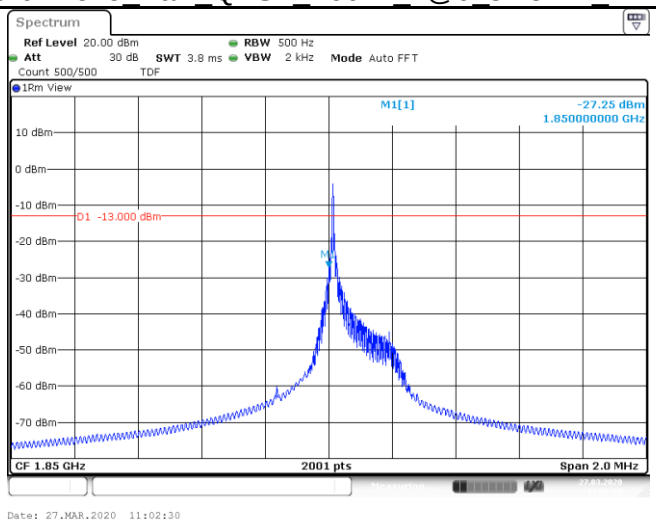
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_-34.64_PASS



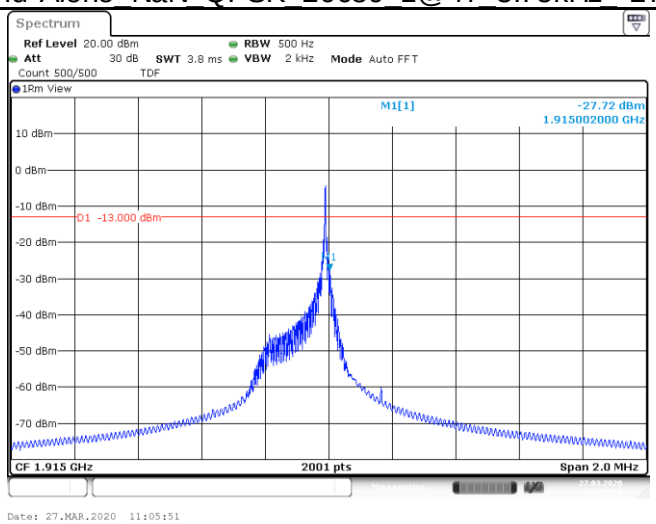
Band25_Stand-Alone_NaN_QPSK_26041_1@47_3.75kHz_-48.59_PASS



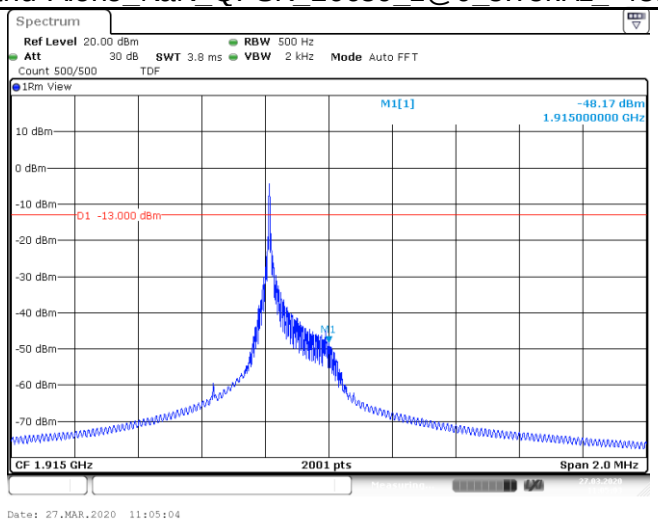
Band25_Stand-Alone_NaN_QPSK_26041_1@0_3.75kHz_-27.25_PASS



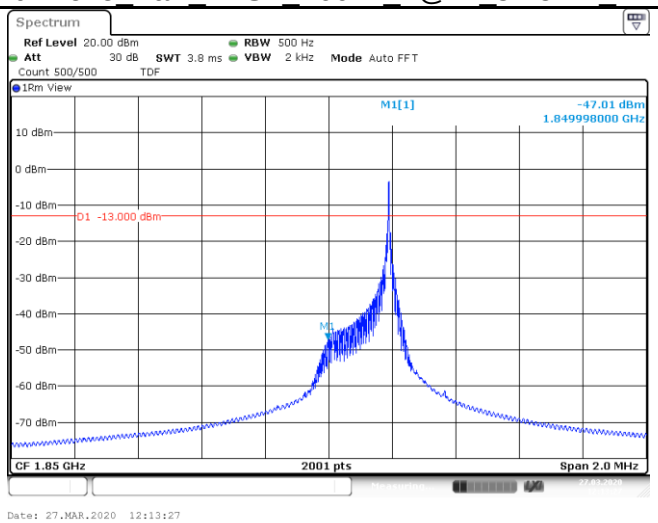
Band25_Stand-Alone_NaN_QPSK_26689_1@47_3.75kHz_-27.72_PASS



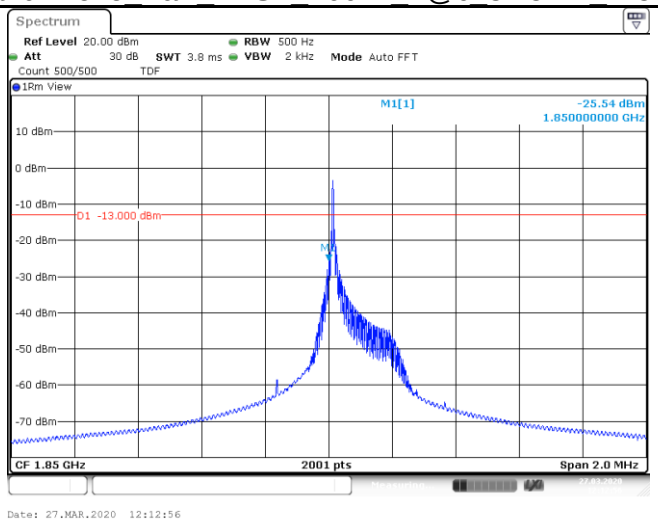
Band25_Stand-Alone_NaN_QPSK_26689_1@0_3.75kHz_-48.17_PASS



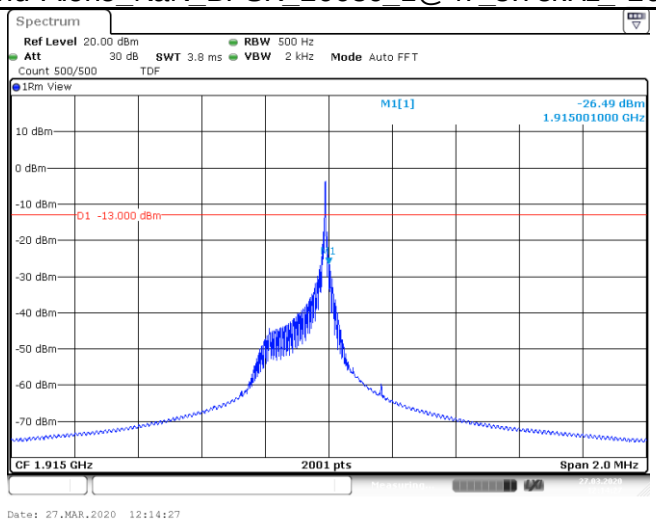
Band25_Stand-Alone_NaN_BPSK_26041_1@47_3.75kHz_-47.01_PASS



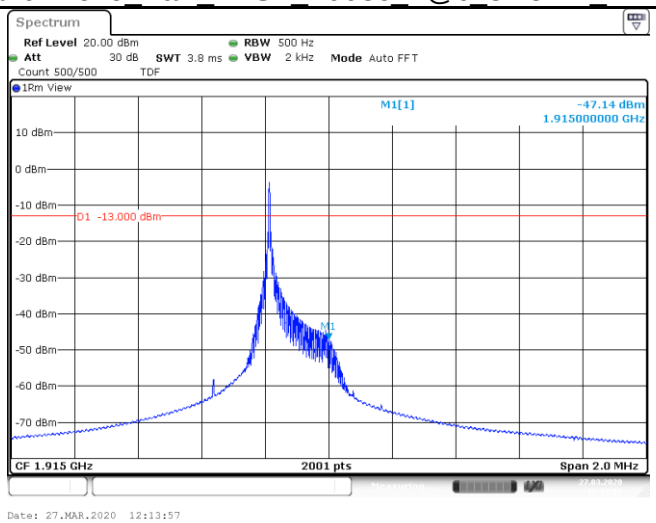
Band25_Stand-Alone_NaN_BPSK_26041_1@0_3.75kHz_-25.54_PASS



Band25_Stand-Alone_NaN_BPSK_26689_1@47_3.75kHz_-26.49_PASS



Band25_Stand-Alone_NaN_BPSK_26689_1@0_3.75kHz_-47.14_PASS



Appendix F.5: Conducted Spurious Emission for NB

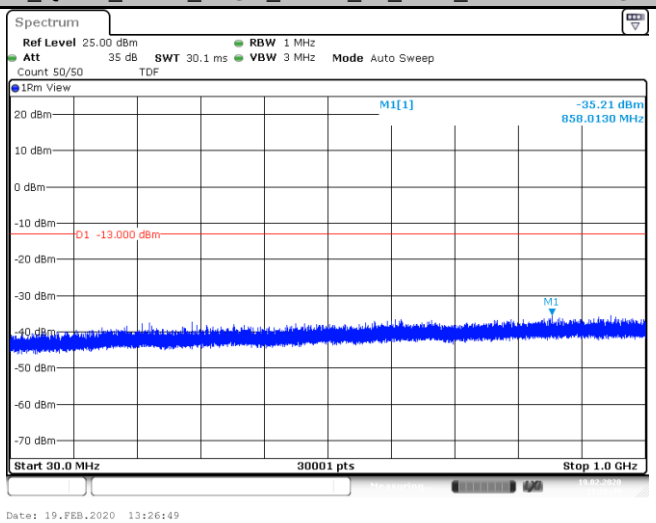
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	30	1000	30~1000MHz@-35.21dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	12000	26500	12000~26500MHz@-41.35dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	1000	5000	1000~5000MHz@-37.81dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	12@0	15kHz	5000	12000	5000~12000MHz@-47.38dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	30	1000	30~1000MHz@-35.74dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	1000	5000	1000~5000MHz@-37.71dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	5000	12000	5000~12000MHz@-47.36dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	12@0	15kHz	12000	26500	12000~26500MHz@-41.48dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	12000	26500	12000~26500MHz@-41.4dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	30	1000	30~1000MHz@-35.46dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	1000	5000	1000~5000MHz@-37.74dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	12@0	15kHz	5000	12000	5000~12000MHz@-47.55dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	5000	12000	5000~12000MHz@-47.58dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	12000	26500	12000~26500MHz@-41.3dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	5000	12000	5000~12000MHz@-47.21dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	12000	26500	12000~26500MHz@-41.26dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	1000	5000	1000~5000MHz@-37.85dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@0	15kHz	30	1000	30~1000MHz@-34.92dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26041	1@11	15kHz	30	1000	30~1000MHz@-35.53dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	1000	5000	1000~5000MHz@-35.64dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	30	1000	30~1000MHz@-35.48dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	5000	12000	5000~12000MHz@-47.18dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@11	15kHz	30	1000	30~1000MHz@-35.57dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	1000	5000	1000~5000MHz@-35.69dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26365	1@0	15kHz	5000	12000	5000~12000MHz@-47.37dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	12000	26500	12000~26500MHz@-41.39dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	30	1000	30~1000MHz@-36.1dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	1000	5000	1000~5000MHz@-37.73dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	5000	12000	5000~12000MHz@-47.38dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@0	15kHz	12000	26500	12000~26500MHz@-41.37dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	30	1000	30~1000MHz@-35.79dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	1000	5000	1000~5000MHz@-37.66dBm	-13	PASS
Band25	Stand-Alone	NaN	BPSK	26689	1@11	15kHz	5000	12000	5000~12000MHz@-47.43dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.43dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	1000	5000	1000~5000MHz@<-35.00dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.7dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.52dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	30	1000	30~1000MHz@-35.34dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	1000	5000	1000~5000MHz@<-35.00dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.83dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	19951	1@0	3.75kHz	30	1000	30~1000MHz@-35.38dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	1000	5000	1000~5000MHz@<-35.00dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	30	1000	30~1000MHz@-35.62dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.22dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.69dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.69dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	30	1000	30~1000MHz@-35.23dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.43dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	20399	1@0	3.75kHz	1000	5000	1000~5000MHz@<-35.00dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.55dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.76dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.67dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.51dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	30	1000	30~1000MHz@-35.14dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.89dBm	-13	PASS

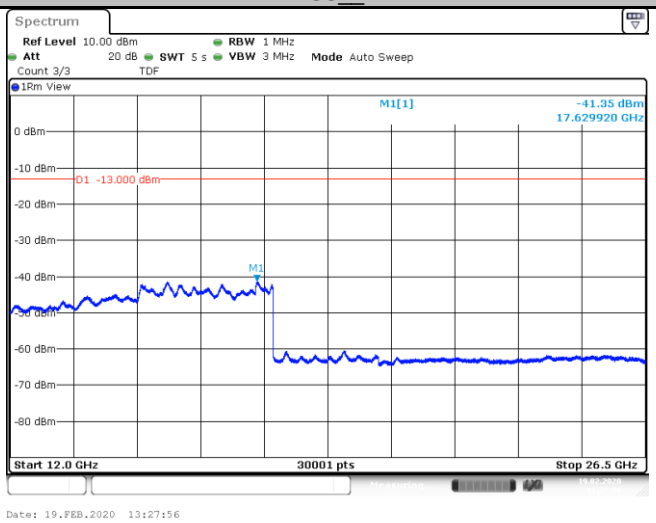
Band25	Stand-Alone	NaN	QPSK	26041	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.64dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26041	1@0	3.75kHz	30	1000	30~1000MHz@-35.48dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.5dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.98dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	30	1000	30~1000MHz@-35.29dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.65dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.39dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	30	1000	30~1000MHz@-35.39dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.59dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26689	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.83dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	5000	12000	5000~12000MHz@-40.76dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.32dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	30	1000	30~1000MHz@-35.56dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.4dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	5000	12000	5000~12000MHz@-40.7dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.5dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.49dBm	-13	PASS
Band25	Stand-Alone	NaN	QPSK	26365	1@0	3.75kHz	30	1000	30~1000MHz@-34.86dBm	-13	PASS

Test Graphs

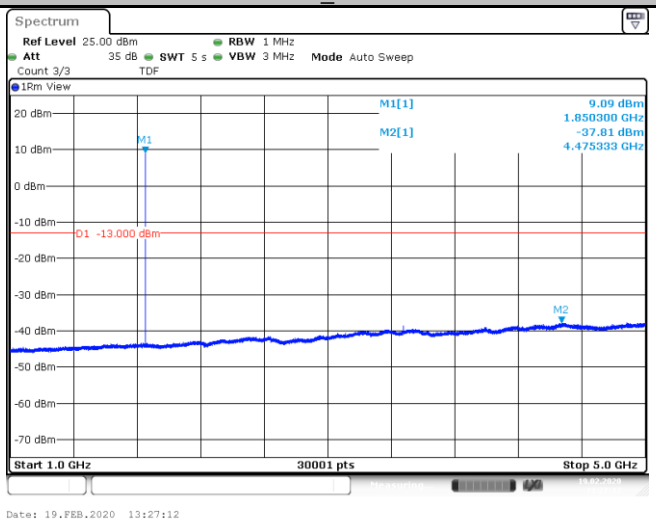
Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_30_1000_30~1000MHz@-35.21dBm_-13_PASS__



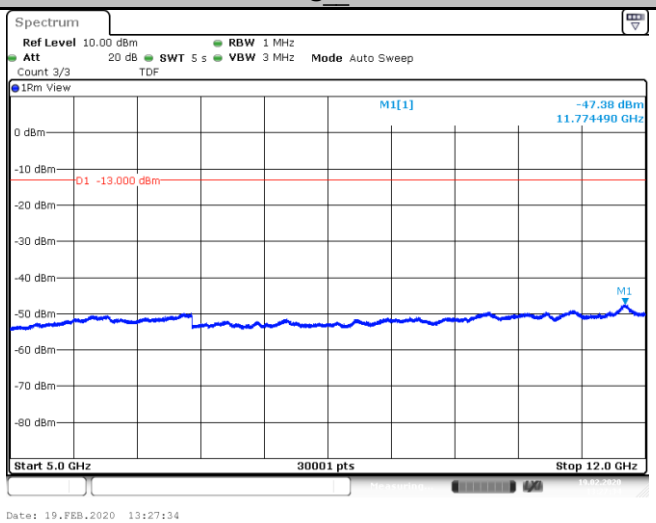
Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_12000_26500_12000~26500MHz@-41.35dBm_-13_PASS__

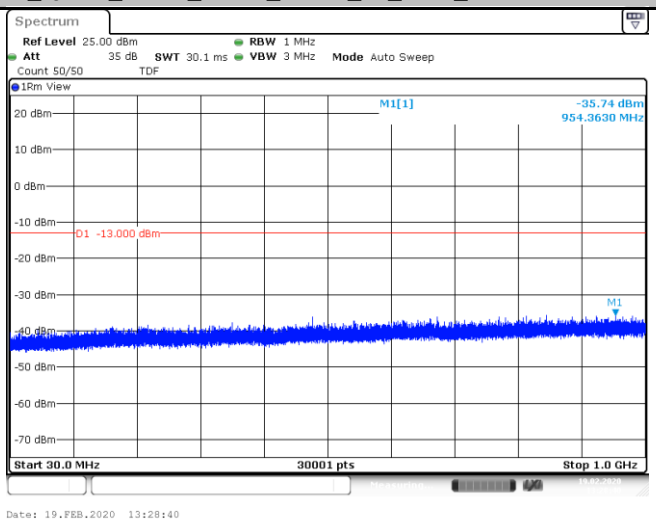
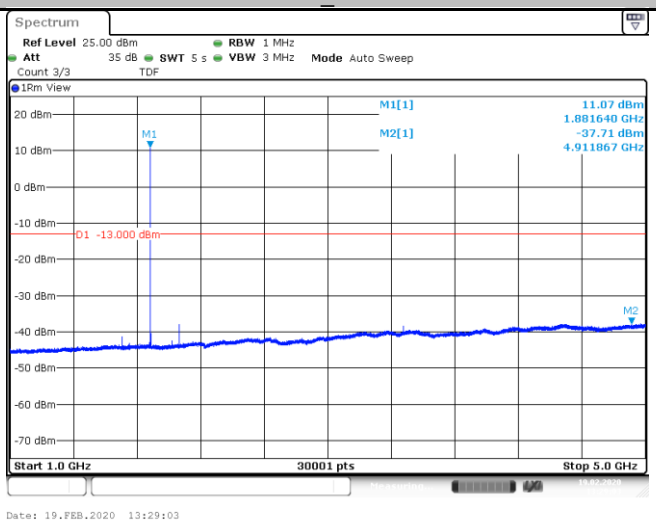
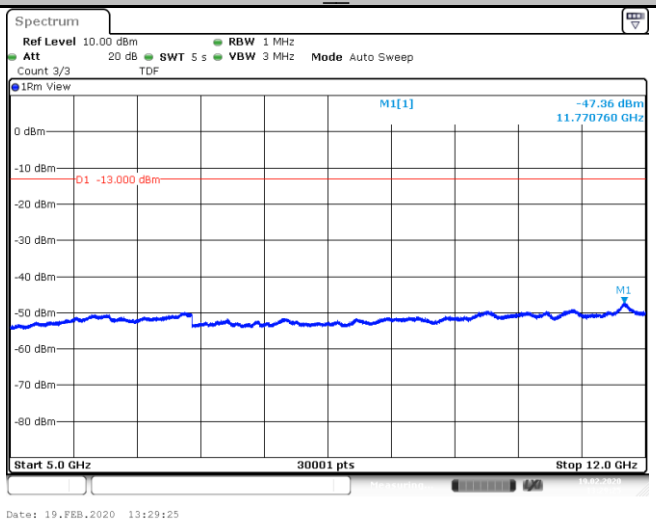


Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_1000_5000_1000~5000MHz@-37.81dBm_-13_PASS__

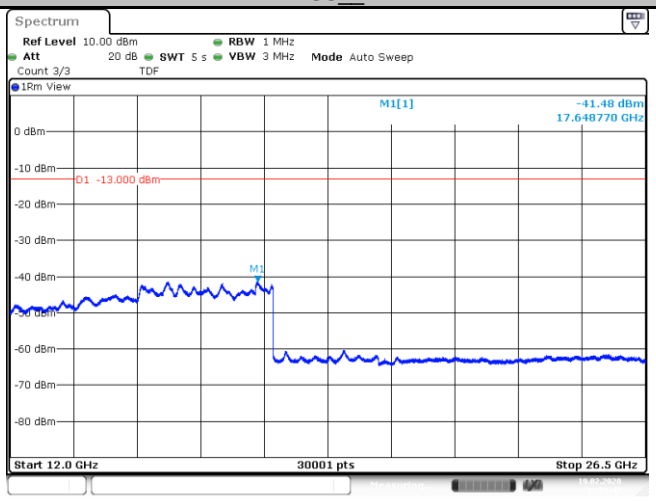


Band25_Stand-Alone_NaN_QPSK_26041_12@0_15kHz_5000_12000_5000~12000MHz@-47.38dBm_-13_PASS__

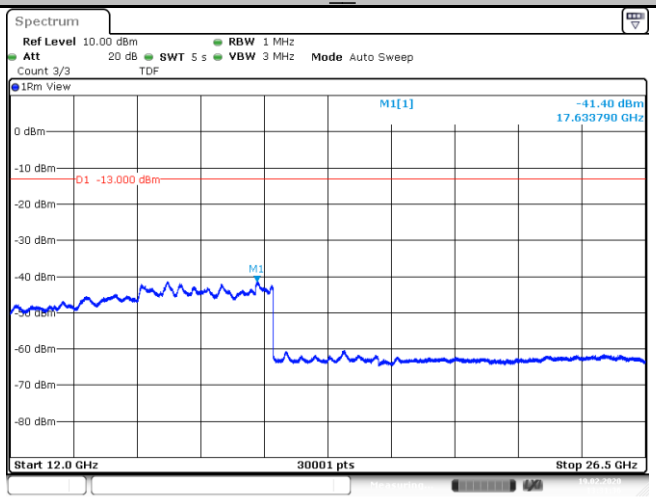


Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_30_1000_30~1000MHz@-35.74dBm_-13_PASS__

Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_1000_5000_1000~5000MHz@-37.71dBm_-13_PASS_ _

Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_5000_12000_5000~12000MHz@-47.36dBm_-13_PASS__


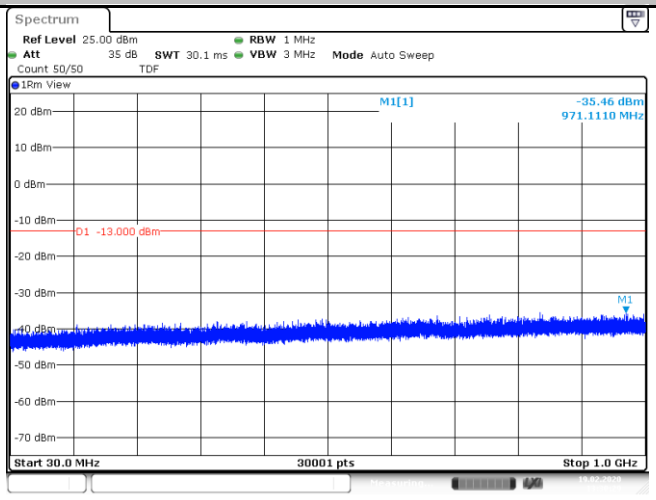
Band25_Stand-Alone_NaN_QPSK_26365_12@0_15kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PASS__



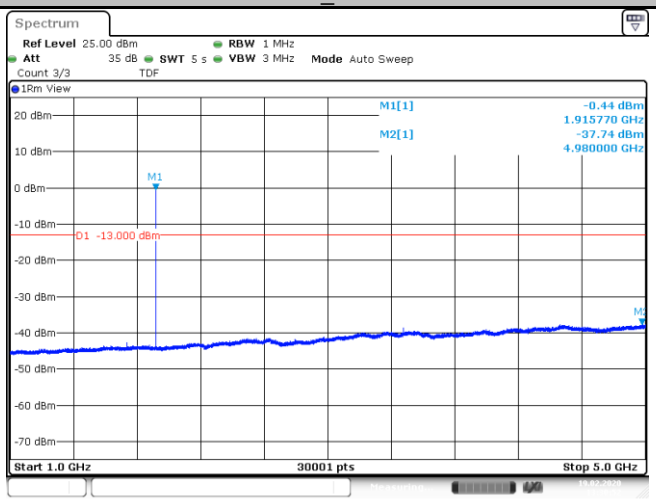
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_12000_26500_12000~26500MHz@-41.4dBm_-13_PASS__



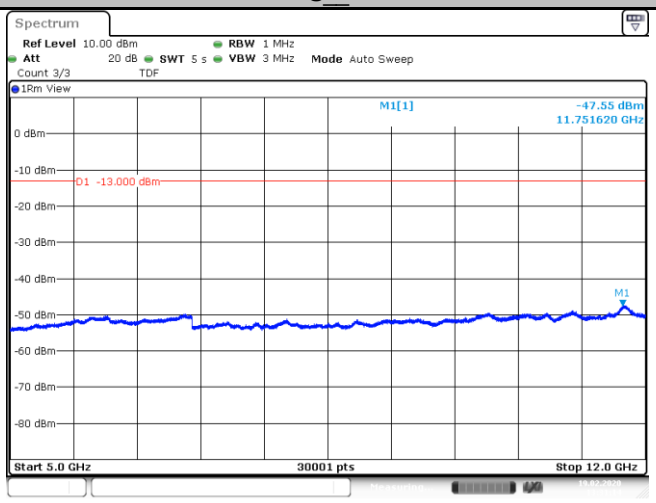
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_30_1000_30~1000MHz@-35.46dBm_-13_PASS__



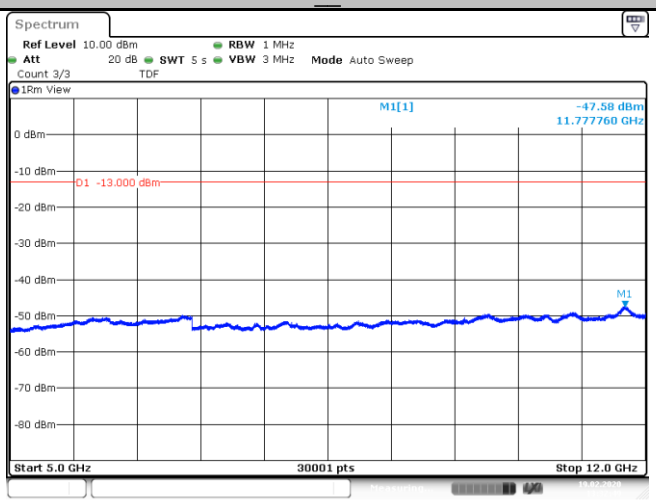
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_1000_5000_1000~5000MHz@-37.74dBm_-13_PASS_

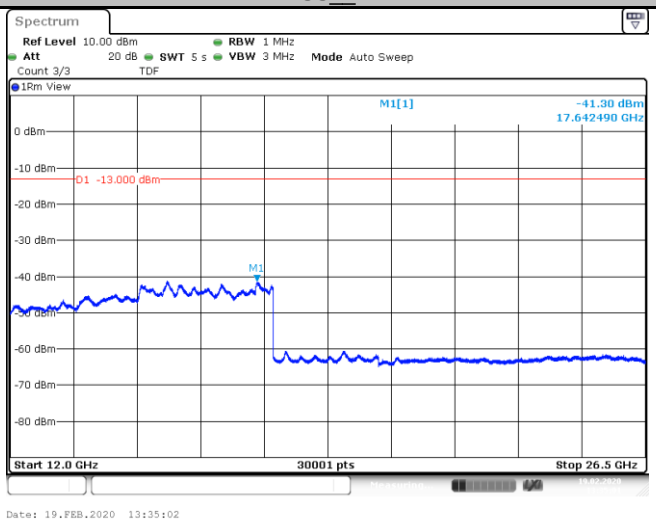


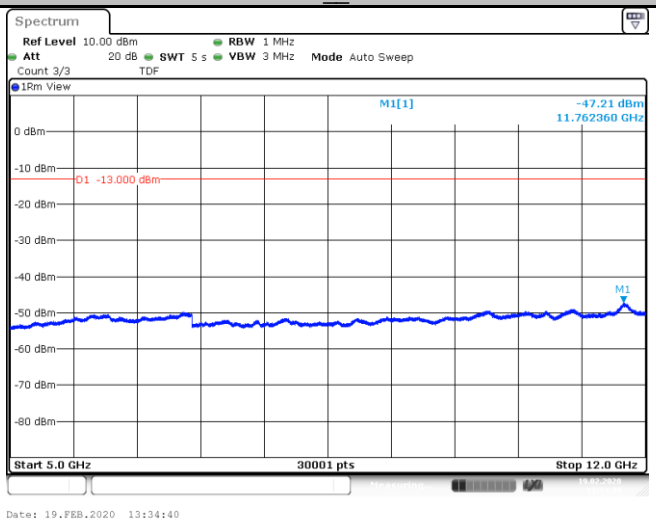
Band25_Stand-Alone_NaN_QPSK_26689_12@0_15kHz_5000_12000_5000~12000MHz@-47.55dBm_-13_PASS__

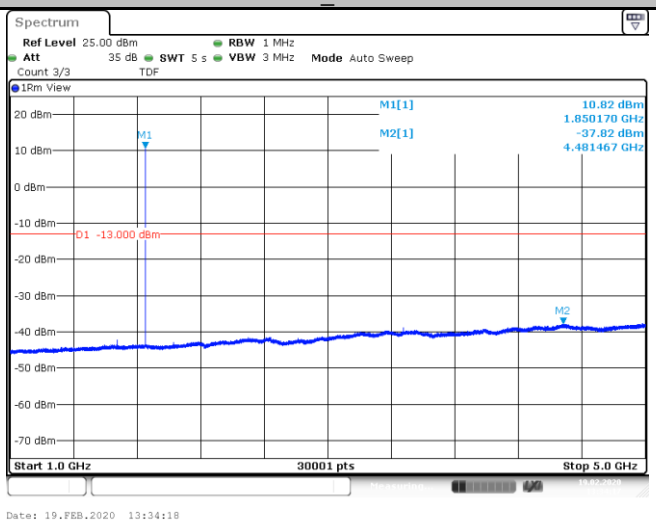


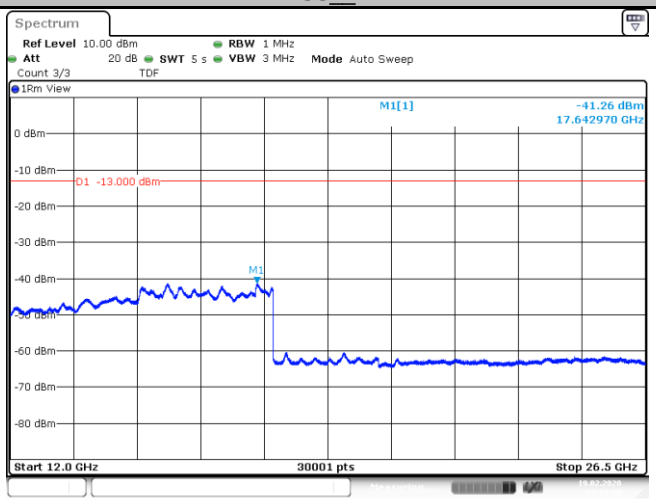
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_5000_12000_5000~12000MHz@-47.58dBm_-13_PASS__

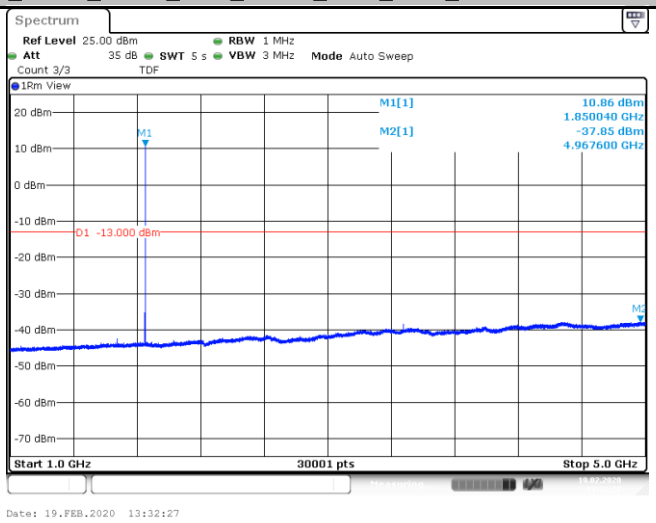


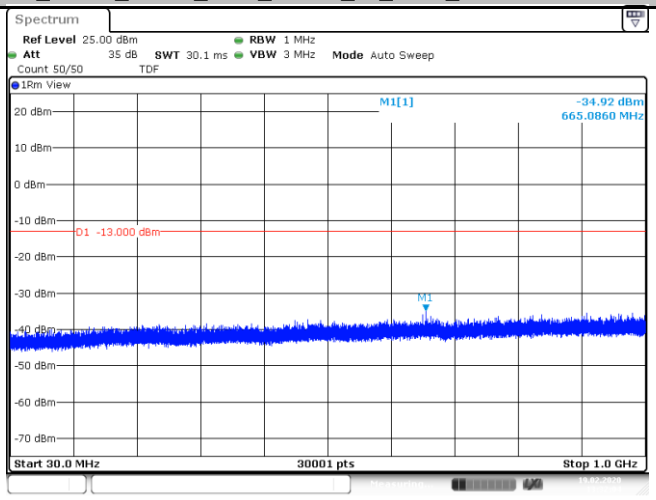
Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_12000_26500_12000~26500MHz@-41.3dBm_-13_PASS__


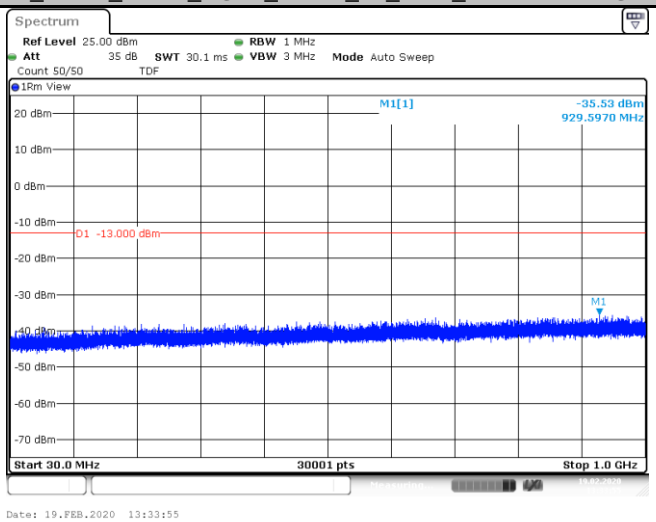
Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_5000_12000_5000~12000MHz@-47.21dBm_-13_PASS__


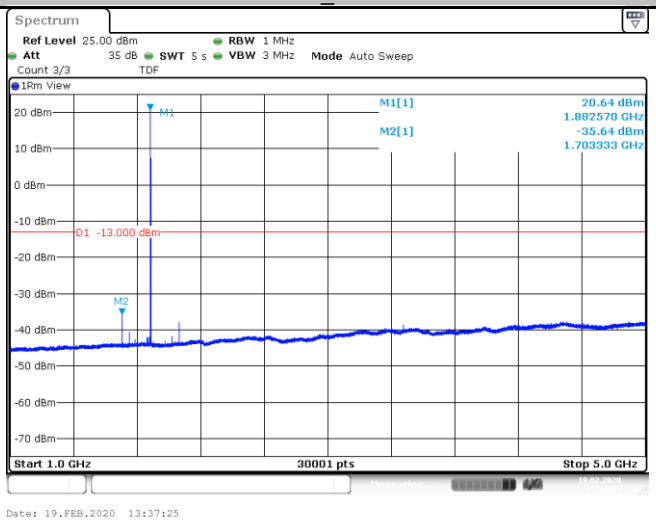
Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_1000_5000_1000~5000MHz@-37.82dBm_-13_PASS__


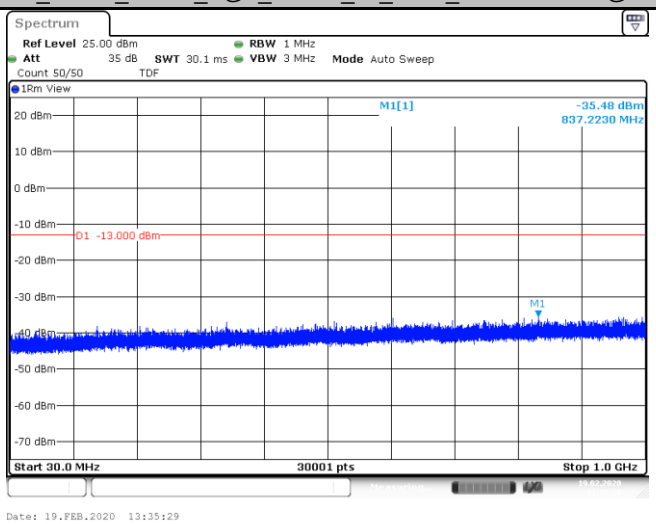
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_12000_26500_12000~26500MHz@-41.26dBm_-13_PASS__


Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_1000_5000_1000~5000MHz@-37.85dBm_-13_PASS__


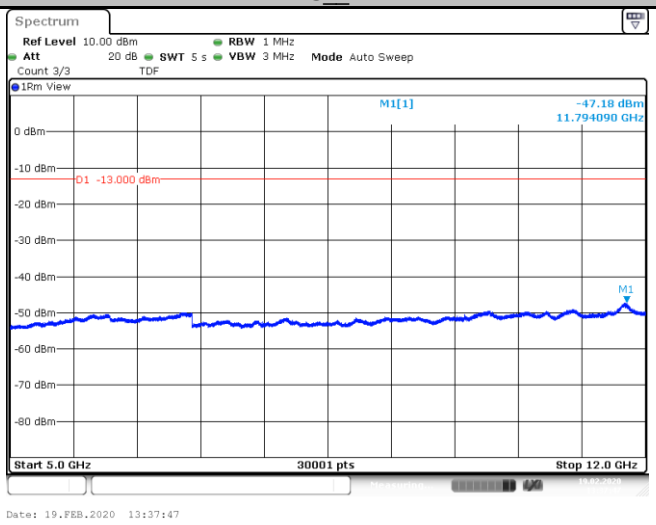
Band25_Stand-Alone_NaN_BPSK_26041_1@0_15kHz_30_1000_30~1000MHz@-34.92dBm_-13_PASS__


Band25_Stand-Alone_NaN_BPSK_26041_1@11_15kHz_30_1000_30~1000MHz@-35.53dBm_-13_PASS__


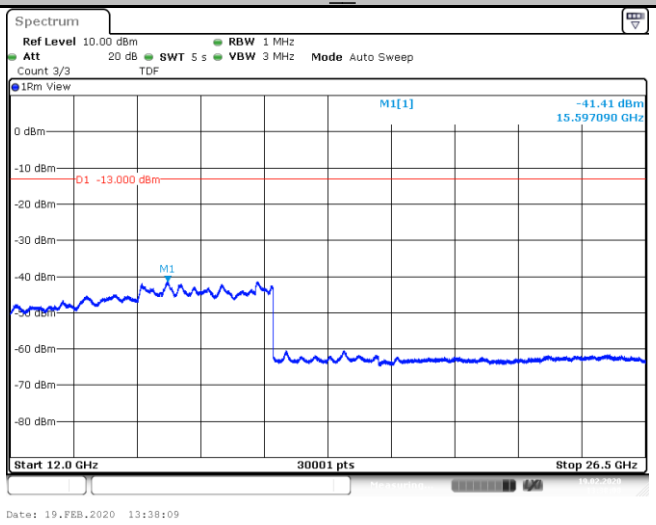
Band25_Stand-Alone_NaN_BPSK_26365_1@11_15kHz_1000_5000_1000~5000MHz@-35.64dBm_-13_PASS_ _


Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_30_1000_30~1000MHz@-35.48dBm_-13_PASS__


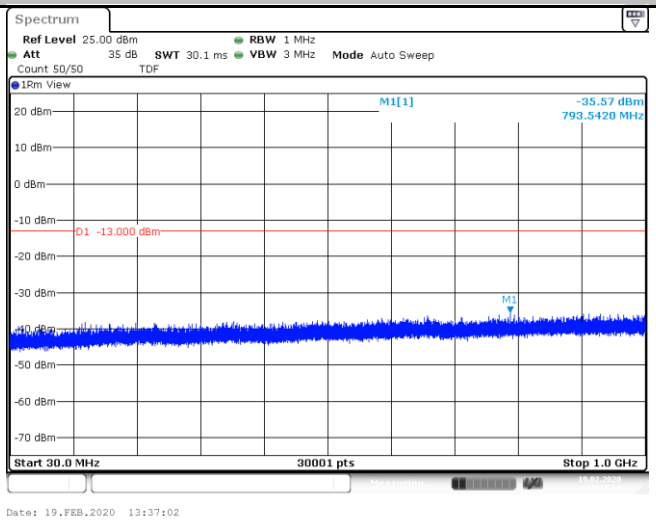
Band25_Stand-Alone_NaN_BPSK_26365_1@11_15kHz_5000_12000_5000~12000MHz@-47.18dBm_-13_PASS__

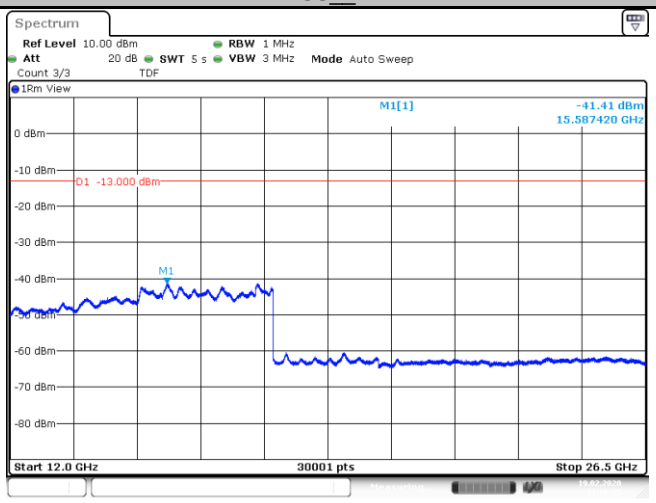
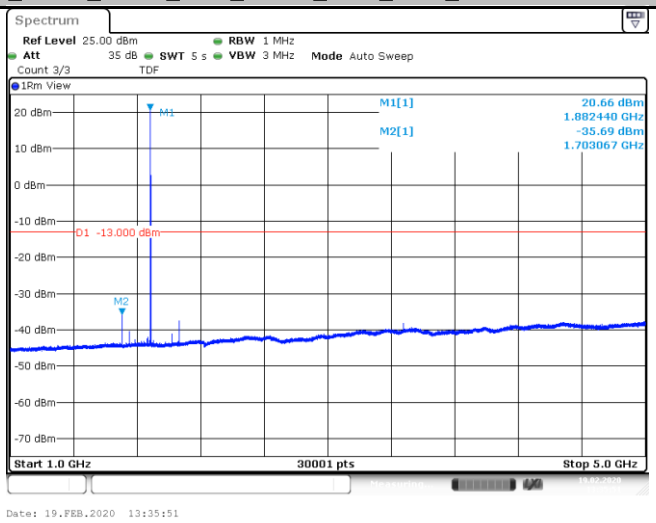
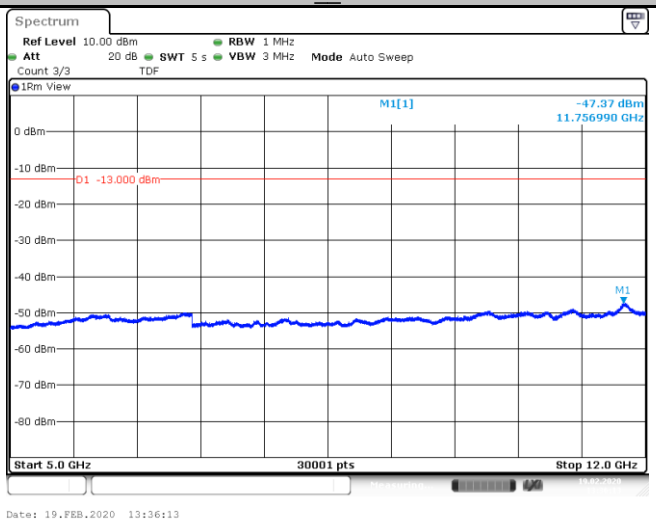


Band25_Stand-Alone_NaN_BPSK_26365_1@11_15kHz_12000_26500_12000~26500MHz@-41.41dBm_-13_PASS__

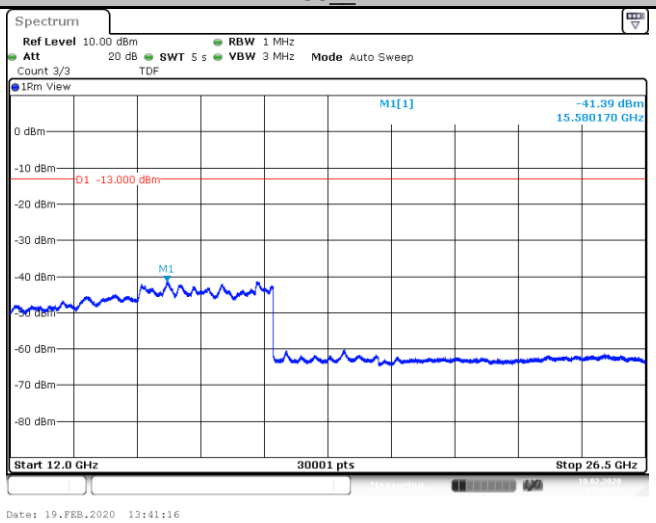


Band25_Stand-Alone_NaN_BPSK_26365_1@11_15kHz_30_1000_30~1000MHz@-35.57dBm_-13_PASS__

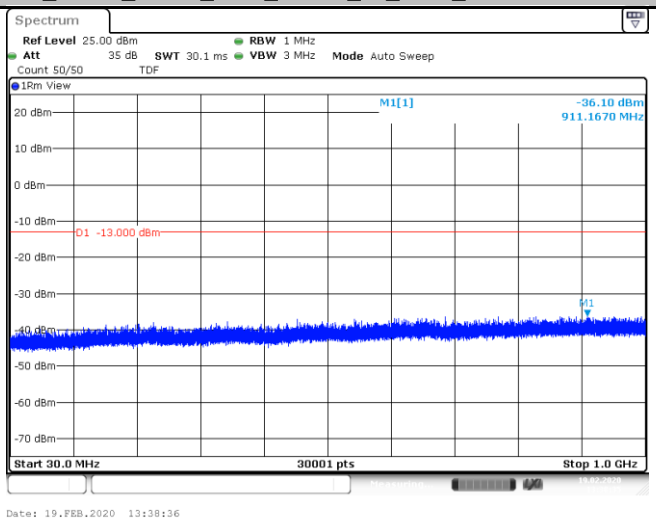


Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_12000_26500_12000~26500MHz@-41.41dBm_-13_PASS__

Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_1000_5000_1000~5000MHz@-35.69dBm_-13_PASS__

Band25_Stand-Alone_NaN_BPSK_26365_1@0_15kHz_5000_12000_5000~12000MHz@-47.37dBm_-13_PASS__


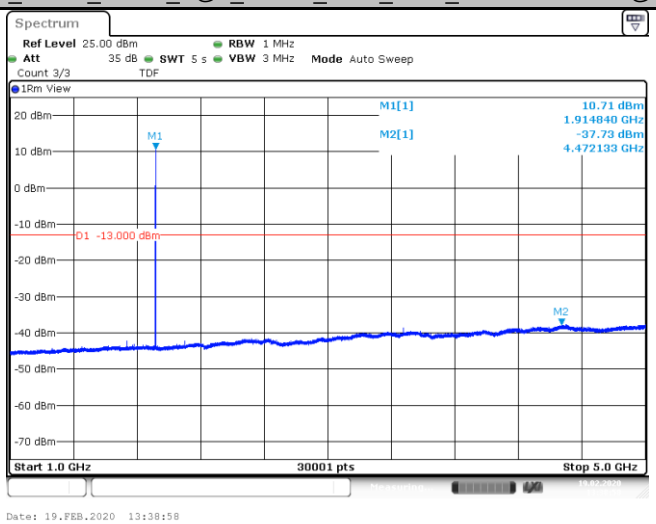
Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_12000_26500_12000~26500MHz@-41.39dBm_-13_PASS__



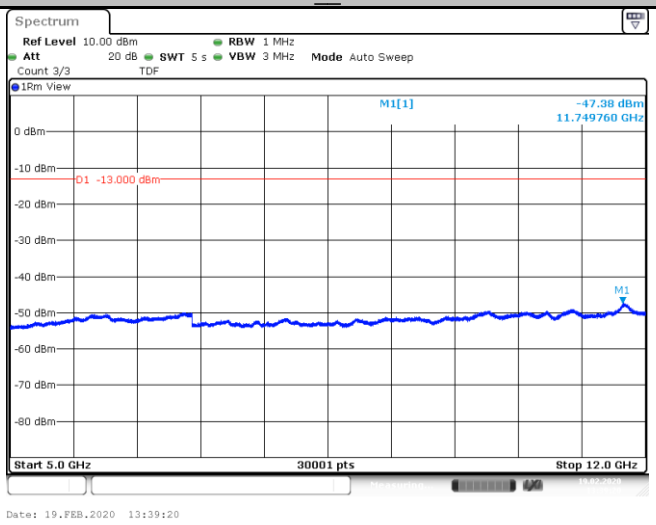
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_30_1000_30~1000MHz@-36.1dBm_-13_PASS__



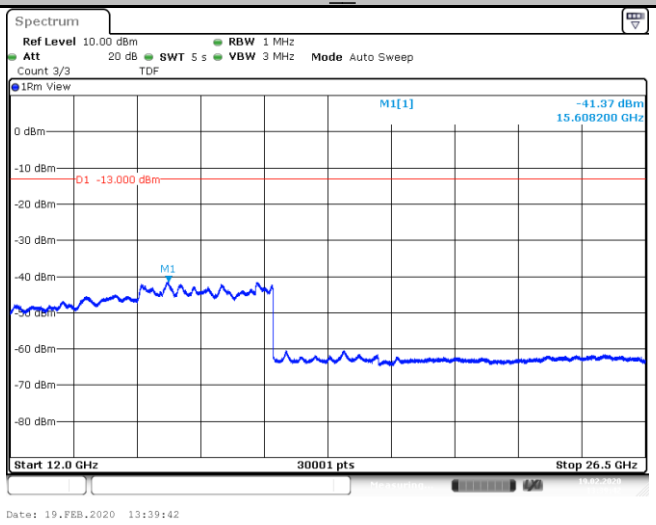
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS__



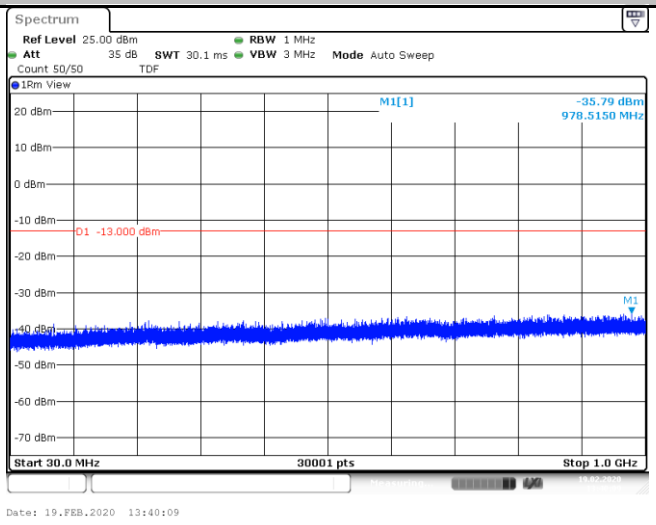
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_5000_12000_5000~12000MHz@-47.38dBm_-13_PASS__



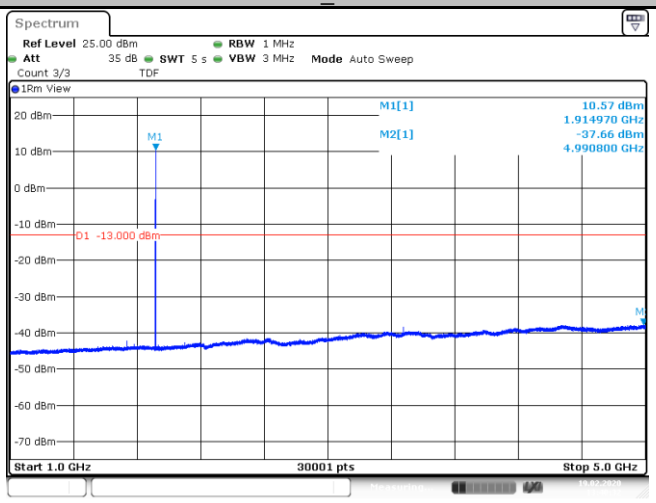
Band25_Stand-Alone_NaN_BPSK_26689_1@0_15kHz_12000_26500_12000~26500MHz@-41.37dBm_-13_PASS__



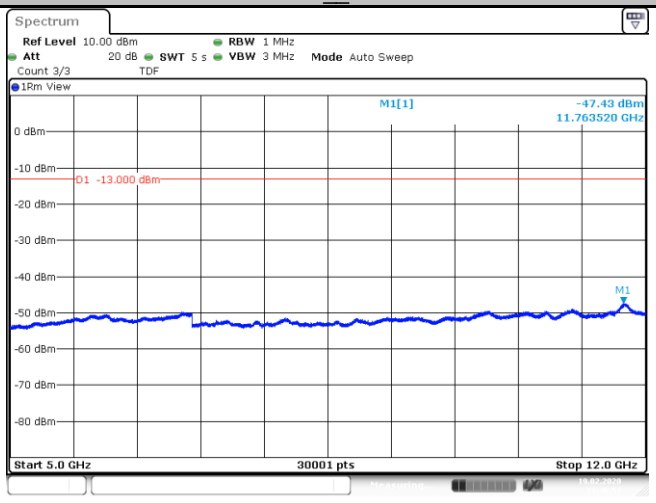
Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_30_1000_30~1000MHz@-35.79dBm_-13_PASS__



Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_1000_5000_1000~5000MHz@-37.66dBm_-13_PASS_



Band25_Stand-Alone_NaN_BPSK_26689_1@11_15kHz_5000_12000_5000~12000MHz@-47.43dBm_-13_PASS__



Band25_Stand-Alone_NaN_QPSK_19951_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.43dBm_-13_PASS__