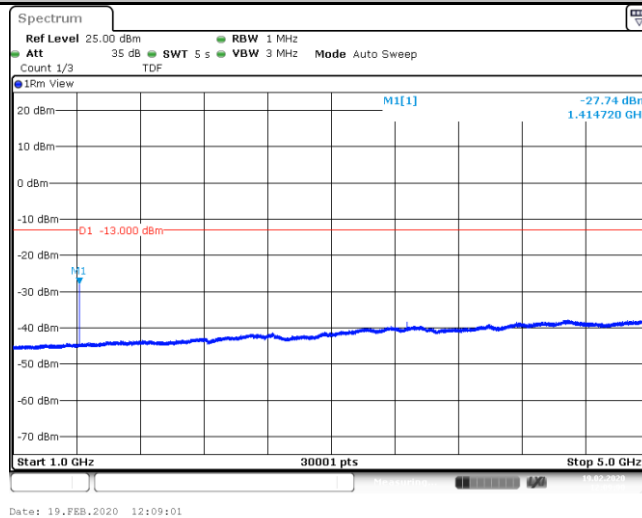
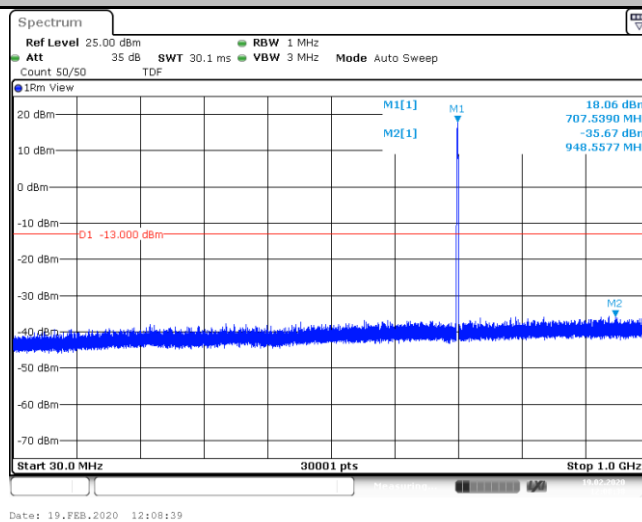


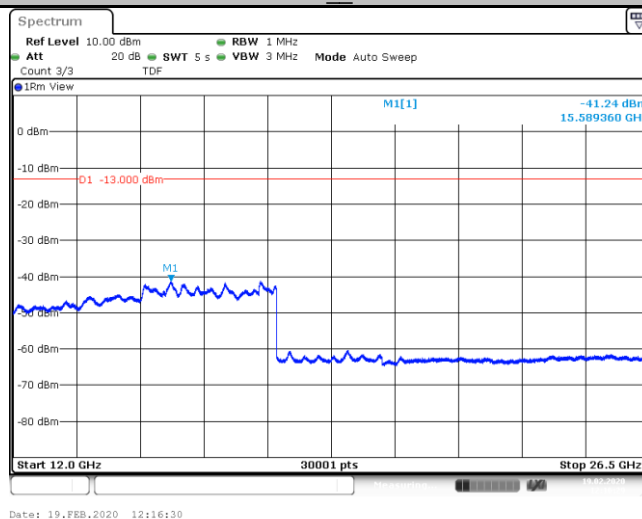
Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_1000_5000_1000~5000MHz@-27.74dBm_-13_PASS__



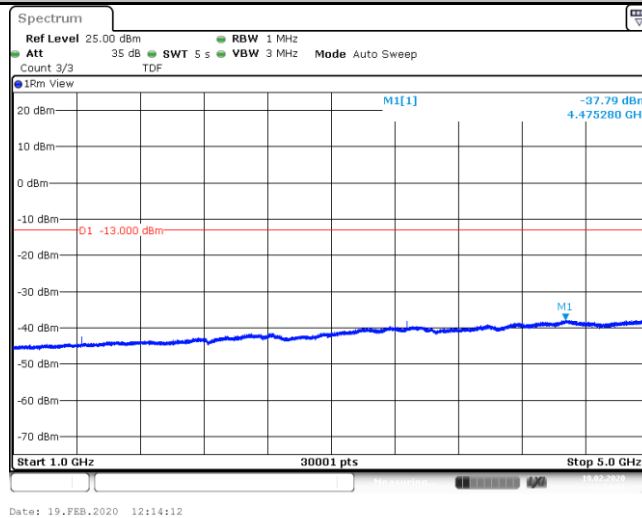
Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



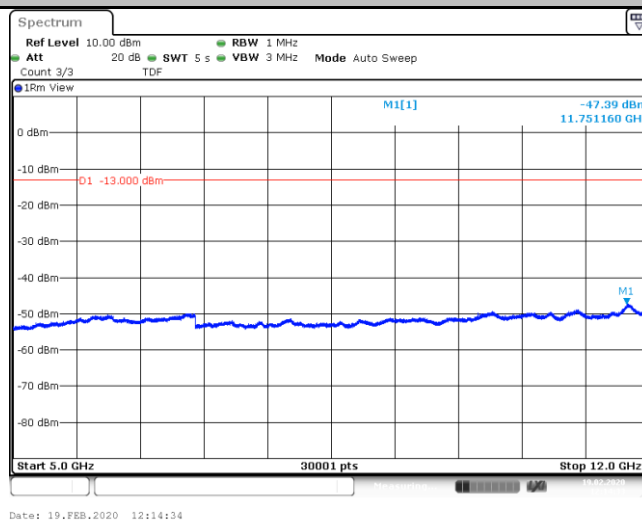
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_12000_26500_12000~26500MHz@-41.24dBm_-13_PAS
S



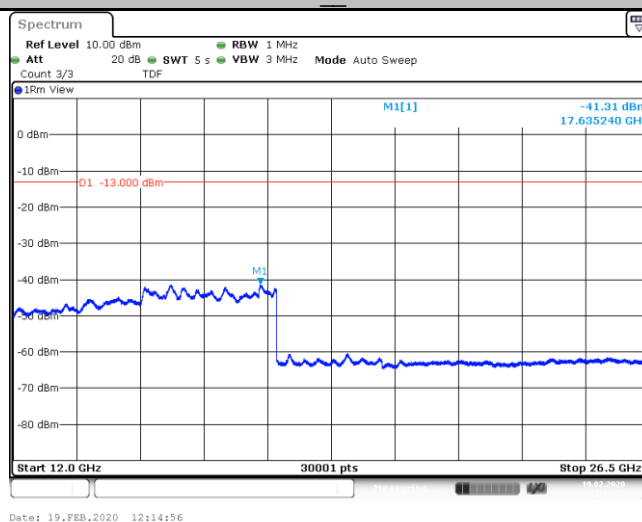
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS__



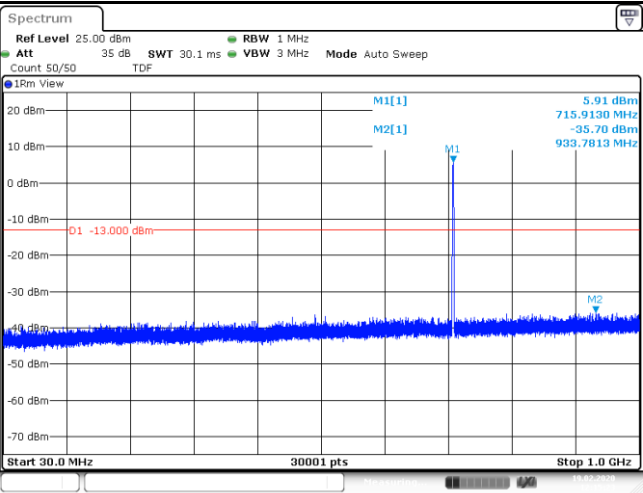
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_5000_12000_5000~12000MHz@-47.39dBm_-13_PASS__



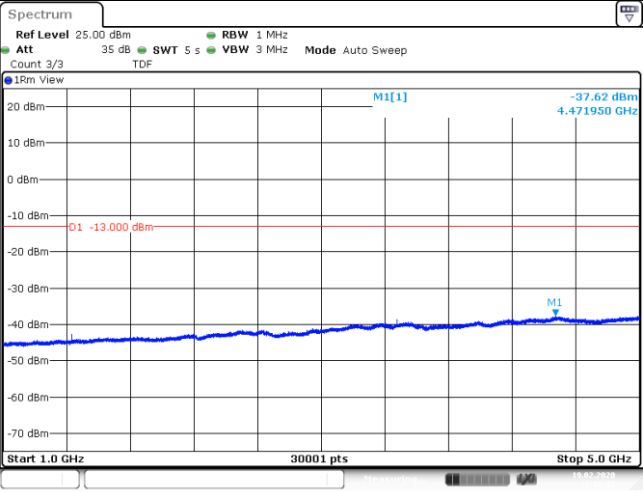
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_PASS



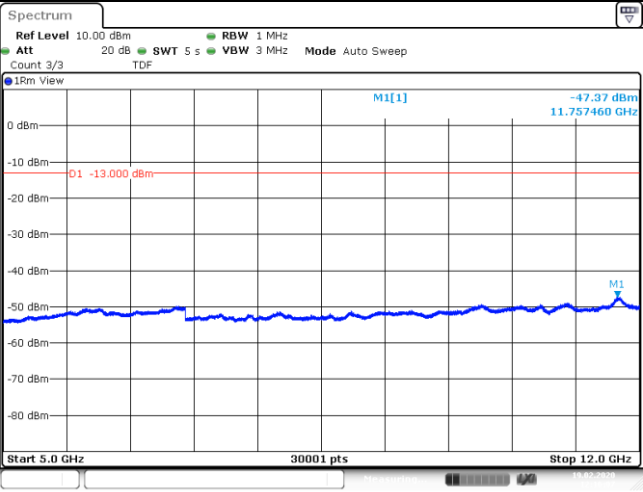
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_30_1000_30~1000MHz@-35.7dBm_-13_PASS__



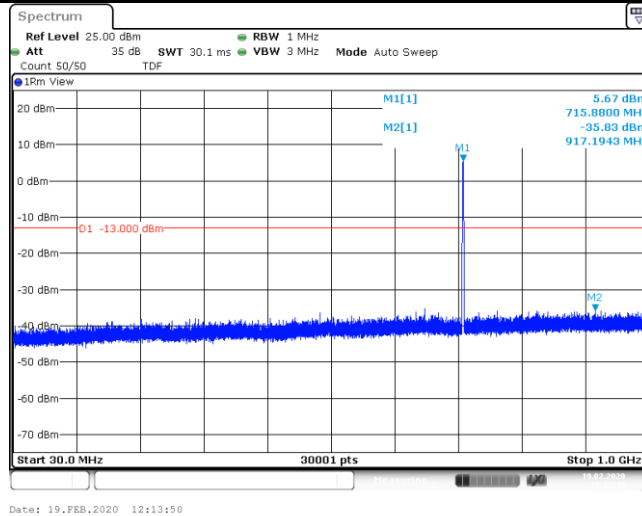
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_1000_5000_1000~5000MHz@-37.62dBm_-13_PASS_



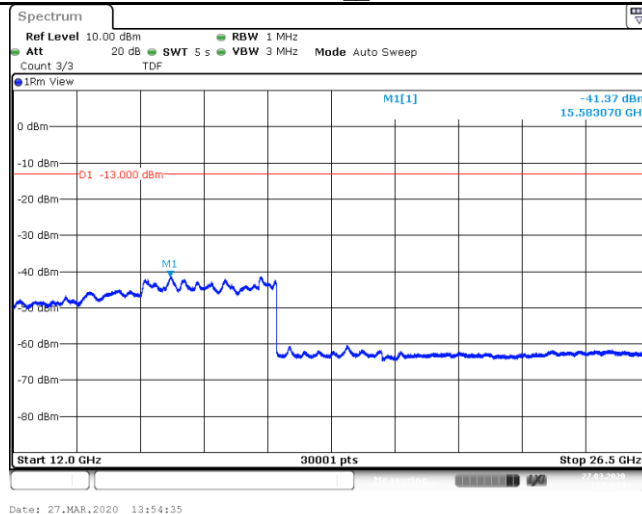
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_5000_12000_5000~12000MHz@-47.37dBm_-13_PASS_



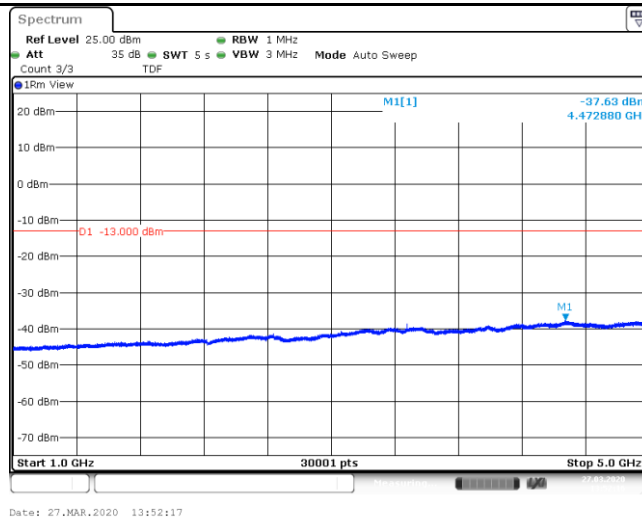
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_30_1000_30~1000MHz@-35.83dBm_-13_PASS__



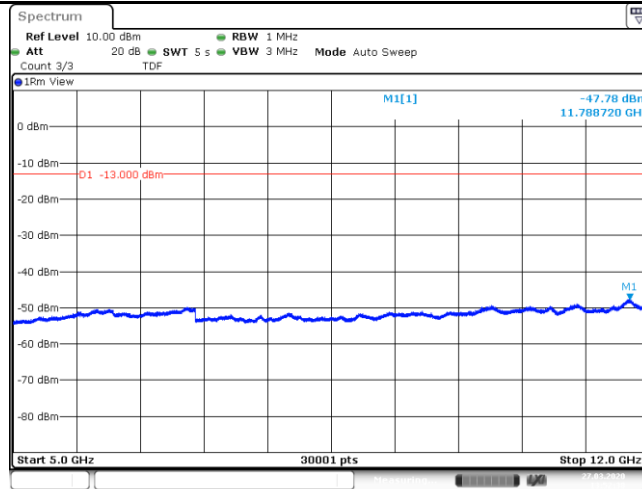
Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.37dBm_-13_P ASS__



Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.63dBm_-13_PASS__

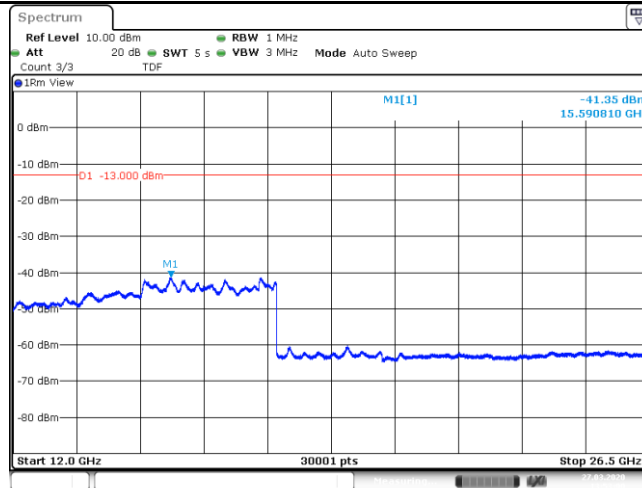


Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.78dBm_-13_PASS



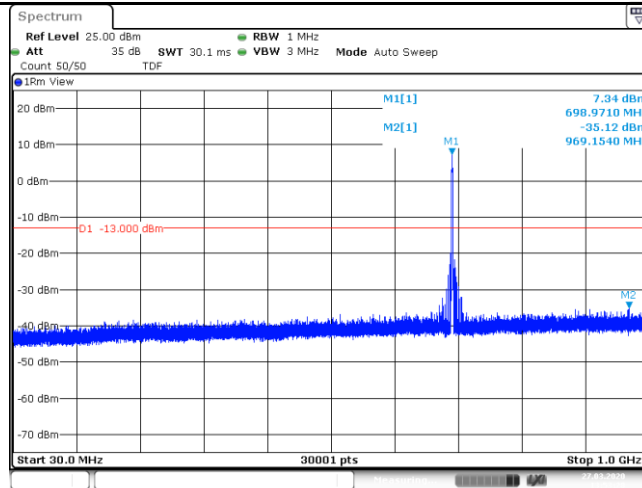
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Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.35dBm_-13_PA
SS



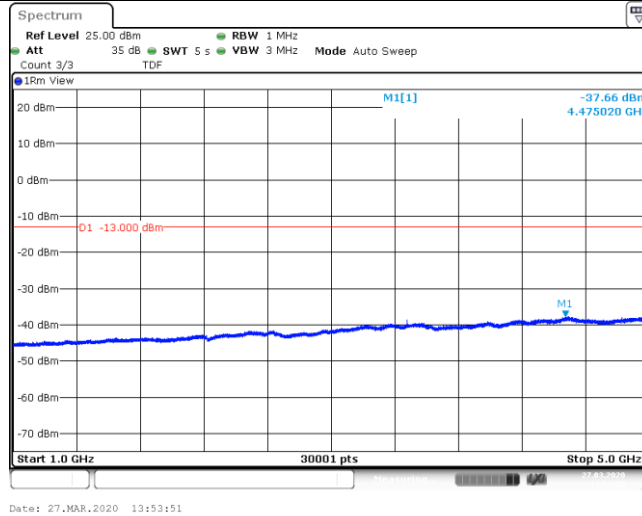
Date: 27.MAR.2020 13:53:00

Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_30_1000_30~1000MHz@-35.12dBm_-13_PASS__

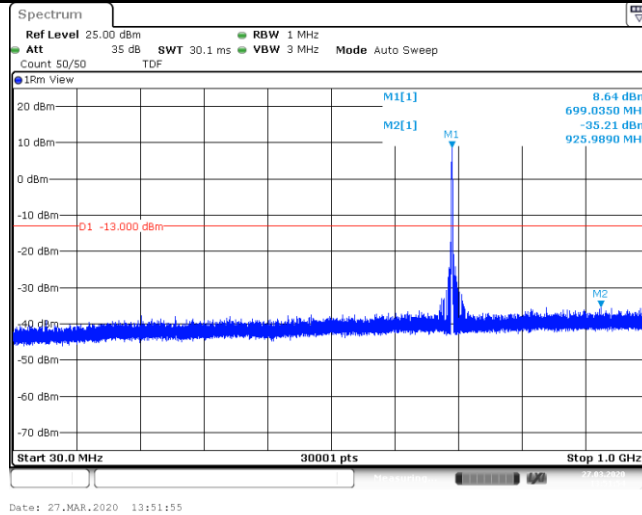


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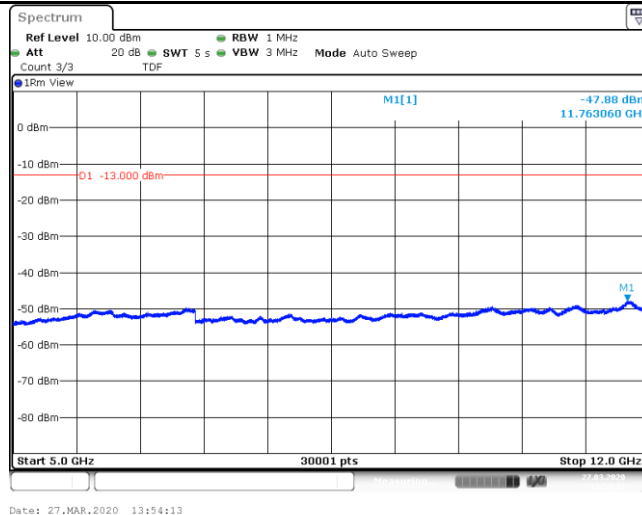
Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.66dBm_-13_PASS_



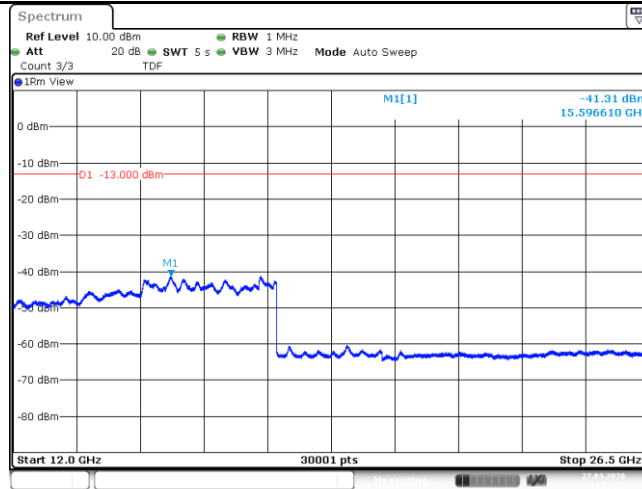
Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_30_1000_30~1000MHz@-35.21dBm_-13_PASS_



Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.88dBm_-13_PAS
S_

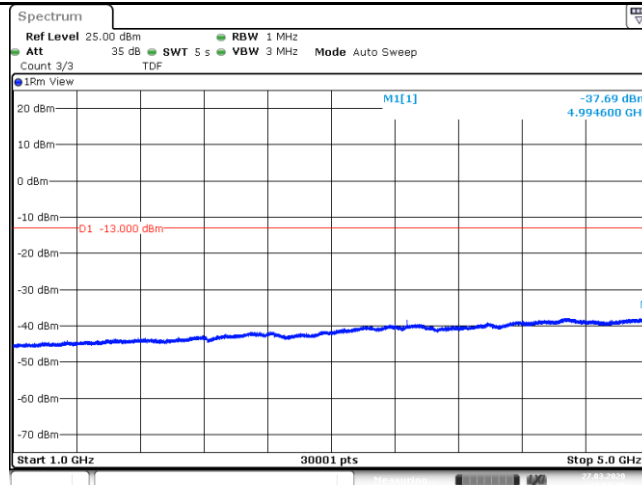


Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_P ASS



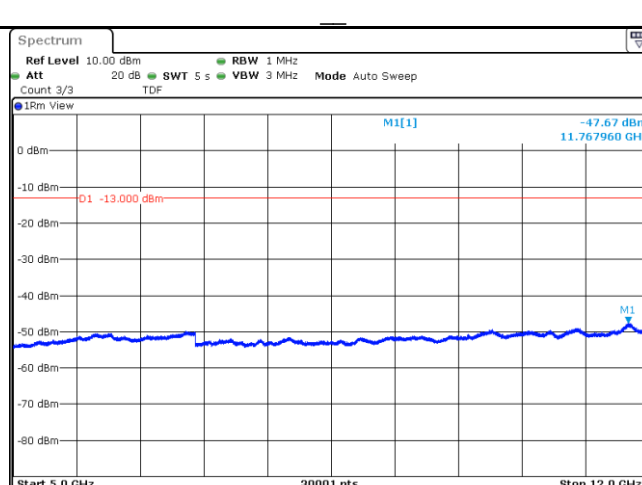
Date: 27.MAR.2020 13:57:43

Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.69dBm_-13_PASS



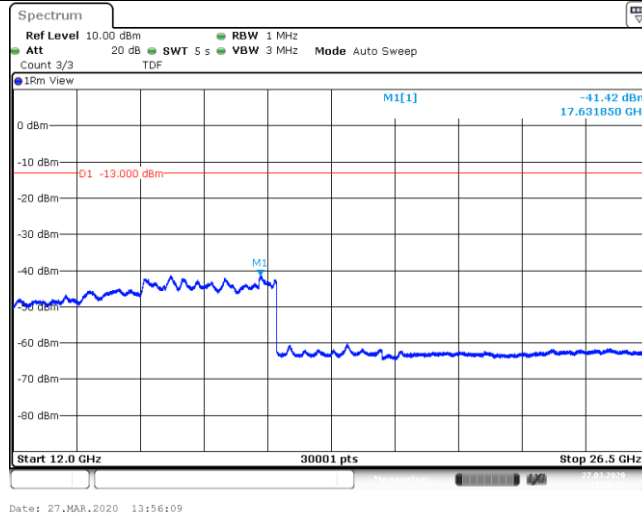
Date: 27.MAR.2020 13:55:25

Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.67dBm_-13_PASS

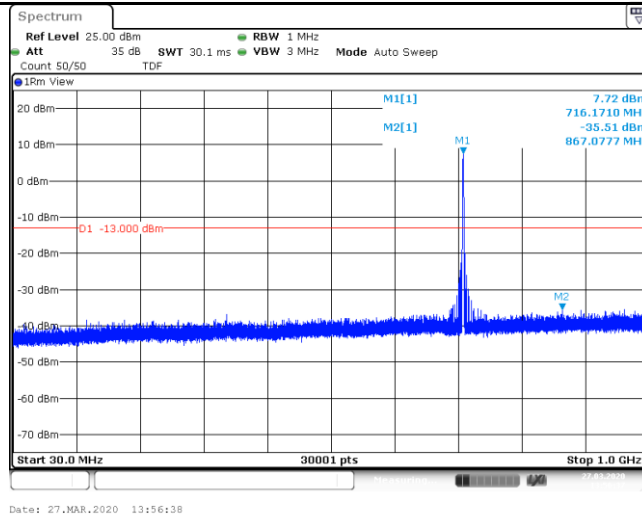


Date: 27.MAR.2020 13:55:47

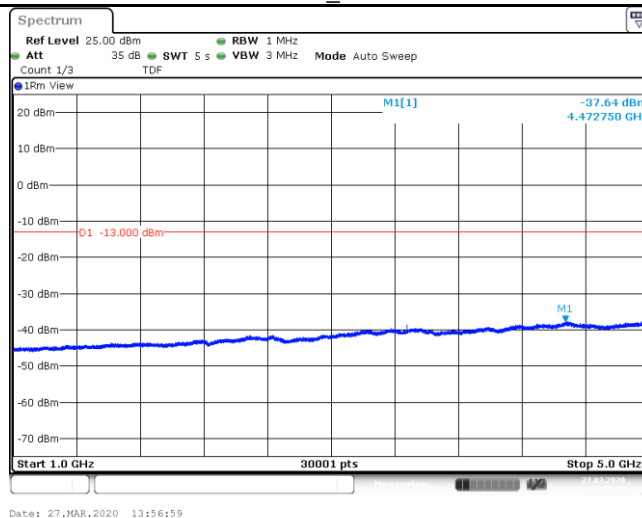
Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.42dBm_-13_PA SS__



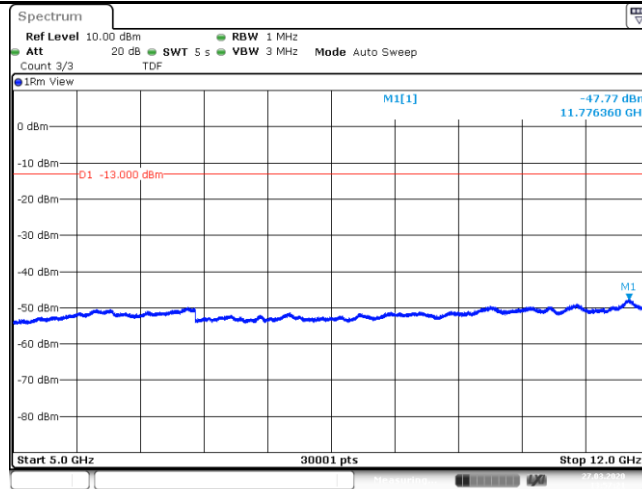
Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_30_1000_30~1000MHz@-35.51dBm_-13_PA SS__



Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.64dBm_-13_PASS__

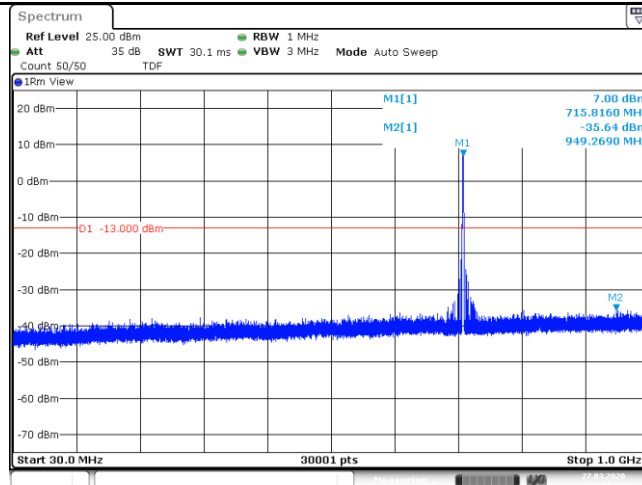


Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.77dBm_-13_PAS
S



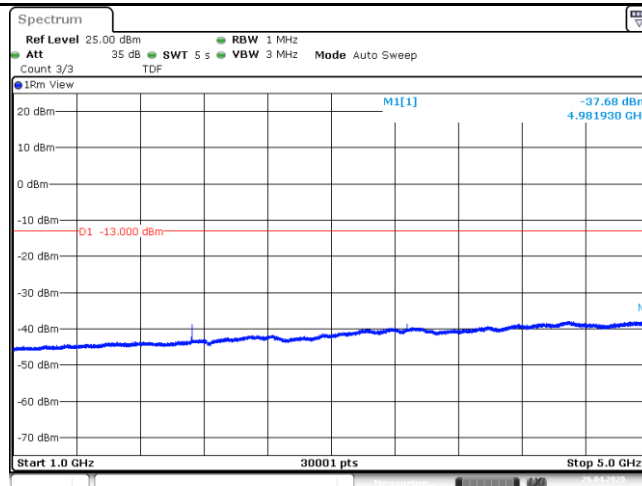
Date: 27.MAR.2020 13:57:21

Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_30_1000_30~1000MHz@-35.64dBm_-13_PASS



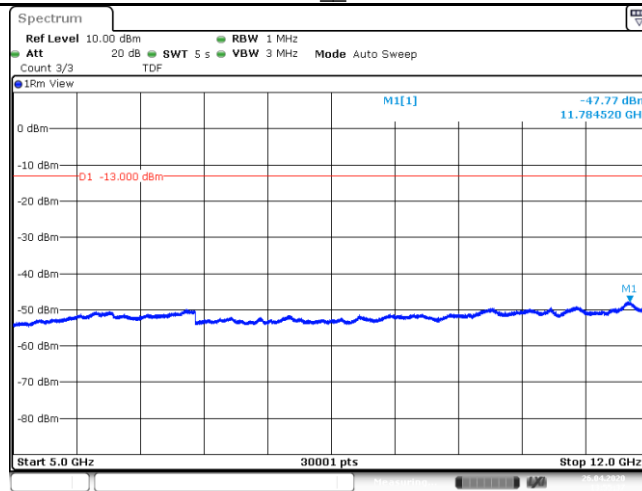
Date: 27.MAR.2020 13:55:03

Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.68dBm_-13_PASS



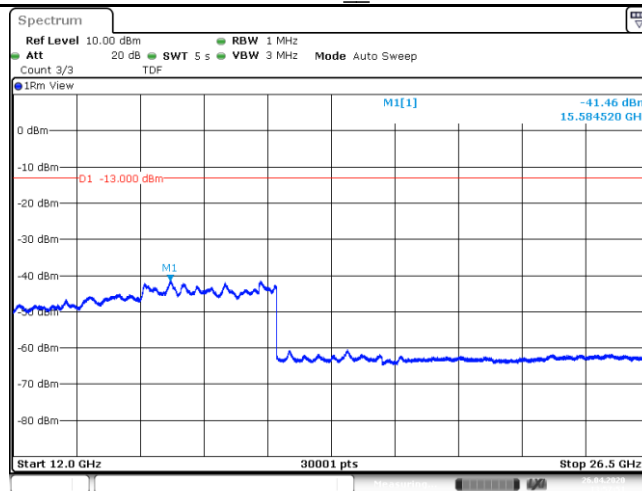
Date: 26.APR.2020 13:55:15

Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.77dBm_-13_PASS



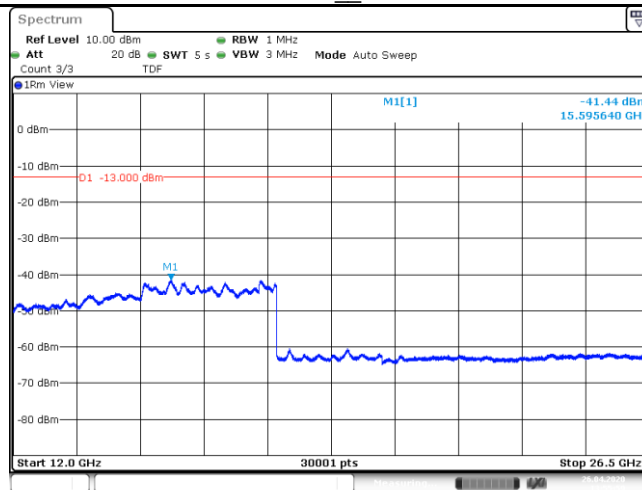
Date: 26.APR.2020 13:55:37

Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.46dBm_-13_PASS



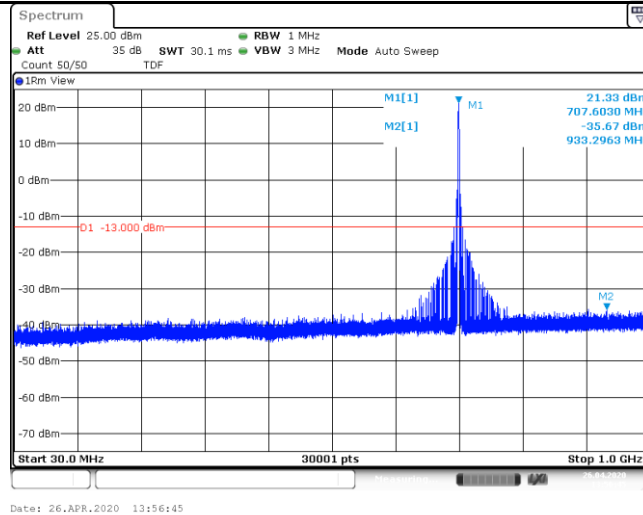
Date: 26.APR.2020 13:57:51

Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.44dBm_-13_PASS

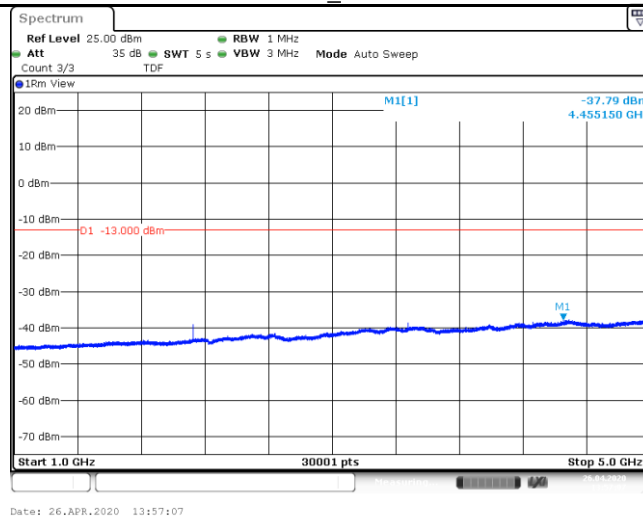


Date: 26.APR.2020 13:55:59

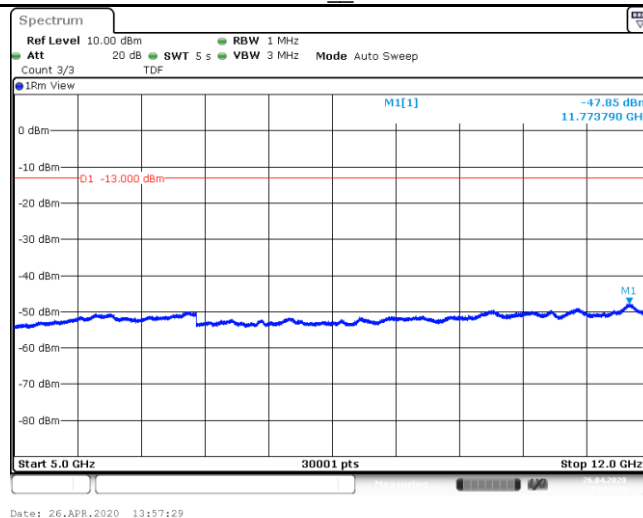
Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



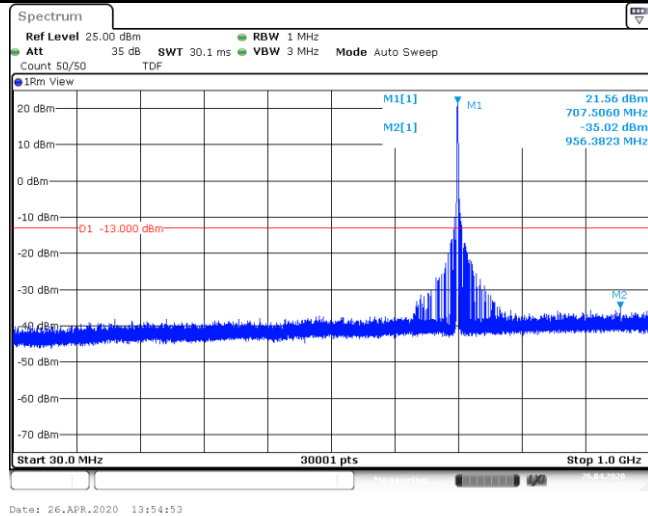
Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS__



Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.85dBm_-13_PAS
S__



Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_30_1000_30~1000MHz@-35.02dBm_-13_PASS__



Appendix D.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
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	HV	NT	-11.13	-0.015731	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	LV	NT	-11.40	-0.016113	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	NT	-11.30	-0.015972	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	HV	NT	-11.33	-0.016014	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	LV	NT	-11.57	-0.016353	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	NT	-13.33	-0.018841	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	HV	NT	4.49	0.006346	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	LV	NT	4.31	0.006092	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	NT	4.65	0.006572	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	HV	NT	3.50	0.004947	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	LV	NT	2.90	0.004099	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	NT	4.25	0.006007	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-40	-9.13	-0.012905	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-30	-10.66	-0.015067	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-20	-12.77	-0.018049	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-10	-10.37	-0.014657	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	0	-11.66	-0.016481	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	10	-8.38	-0.011845	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	20	-12.52	-0.017696	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	30	-14.13	-0.019972	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	40	-11.13	-0.015731	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	50	-10.63	-0.015025	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	60	-10.63	-0.015025	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	70	-9.33	-0.013187	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	-40	-10.03	-0.014177	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	85	-8.60	-0.012155	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	85	-9.48	-0.013399	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-30	-8.73	-0.012339	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-20	-9.93	-0.014035	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	-10	-9.71	-0.013724	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	0	-8.24	-0.011647	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	10	-10.30	-0.014558	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	20	-8.08	-0.011420	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	30	-9.93	-0.014035	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	40	-10.13	-0.014318	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	50	-10.81	-0.015279	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	60	-9.50	-0.013428	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	70	-12.43	-0.017569	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	NV	80	-10.61	-0.014996	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	NV	80	-9.97	-0.014092	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-40	4.98	0.007039	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-30	5.52	0.007802	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-20	3.28	0.004636	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-10	4.82	0.006813	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	0	4.58	0.006473	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	10	4.36	0.006163	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	20	2.68	0.003788	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	30	5.26	0.007435	±2.5	PASS

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Produkte
Products

Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	40	4.01	0.005668	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	50	4.13	0.005837	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	60	4.48	0.006332	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	70	4.46	0.006304	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	-40	4.59	0.006488	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	85	3.73	0.005272	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	85	4.13	0.005837	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-30	5.36	0.007576	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-20	3.79	0.005357	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	-10	2.85	0.004028	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	0	5.45	0.007703	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	10	4.01	0.005668	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	20	3.15	0.004452	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	30	5.06	0.007152	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	40	3.72	0.005258	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	50	5.31	0.007505	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	60	4.38	0.006191	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	70	4.23	0.005979	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	NV	80	6.04	0.008537	±2.5	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	NV	80	4.99	0.007053	±2.5	PASS

Appendix E: Test Results of Band 13 for NB-IoT operation

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

Test Result

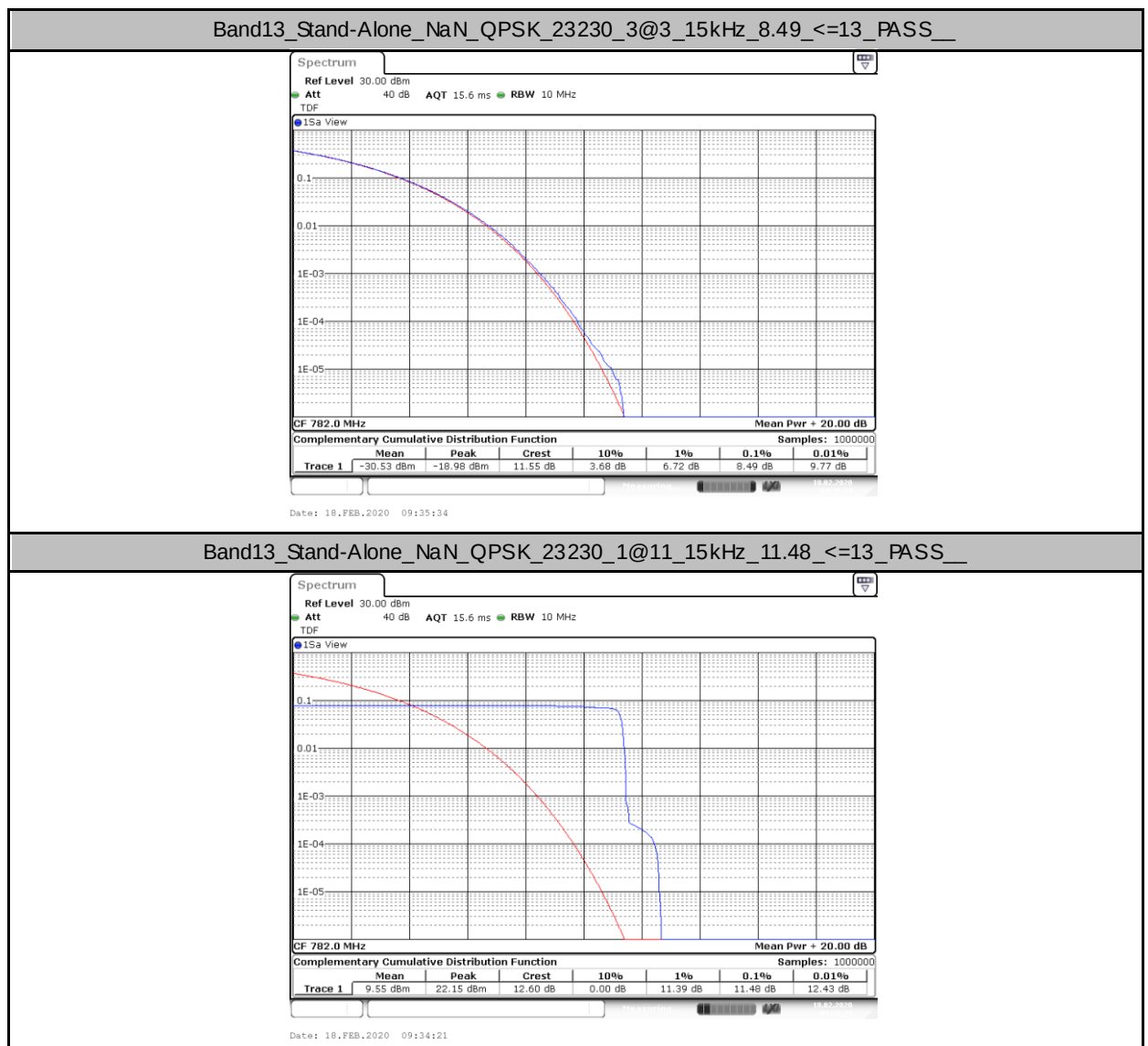
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	7.95	7.94	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@11	15kHz	7.93	7.92	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	3@3	15kHz	7.93	7.92	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@0	15kHz	21.75	21.74	0.149	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	3@3	15kHz	24.72	24.71	0.296	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@11	15kHz	21.67	21.66	0.147	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	23.30	23.29	0.213	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	23.31	23.3	0.214	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	3@3	15kHz	23.30	23.29	0.213	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@0	15kHz	22.13	22.12	0.163	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@11	15kHz	22.06	22.05	0.160	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	3@3	15kHz	24.80	24.79	0.301	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@11	15kHz	8.02	8.01	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	3@3	15kHz	8.06	8.05	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	8.13	8.12	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	7.89	7.88	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	3@3	15kHz	7.94	7.93	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	7.84	7.83	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@0	15kHz	21.67	21.66	0.147	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@11	15kHz	21.52	21.51	0.142	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	3@3	15kHz	21.97	21.96	0.157	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	18.28	18.27	0.067	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	21.10	21.09	0.129	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	3@3	15kHz	23.31	23.3	0.214	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@0	15kHz	22.10	22.09	0.162	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@11	15kHz	21.89	21.88	0.154	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	3@3	15kHz	22.15	22.14	0.164	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	7.96	7.95	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	3@3	15kHz	8.07	8.06	0.006	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	8.00	7.99	0.006	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	6.21	6.2	0.004	3	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	6.36	6.35	0.004	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@0	3.75kHz	24.97	24.96	0.313	3	PASS
Band13	Stand-Alone	NaN	QPSK	23182	1@47	3.75kHz	24.95	24.94	0.312	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@0	3.75kHz	24.80	24.79	0.301	3	PASS
Band13	Stand-Alone	NaN	QPSK	23278	1@47	3.75kHz	24.85	24.84	0.305	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	6.39	6.38	0.004	3	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	6.46	6.45	0.004	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@47	3.75kHz	6.25	6.24	0.004	3	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	6.24	6.23	0.004	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@47	3.75kHz	24.75	24.74	0.298	3	PASS
Band13	Stand-Alone	NaN	BPSK	23182	1@0	3.75kHz	24.77	24.76	0.299	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@0	3.75kHz	24.78	24.77	0.300	3	PASS
Band13	Stand-Alone	NaN	BPSK	23278	1@47	3.75kHz	24.77	24.76	0.299	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@47	3.75kHz	6.36	6.35	0.004	3	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	6.31	6.3	0.004	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	24.91	24.9	0.309	3	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	24.98	24.97	0.314	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@47	3.75kHz	24.86	24.85	0.305	3	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	24.84	24.83	0.304	3	PASS

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

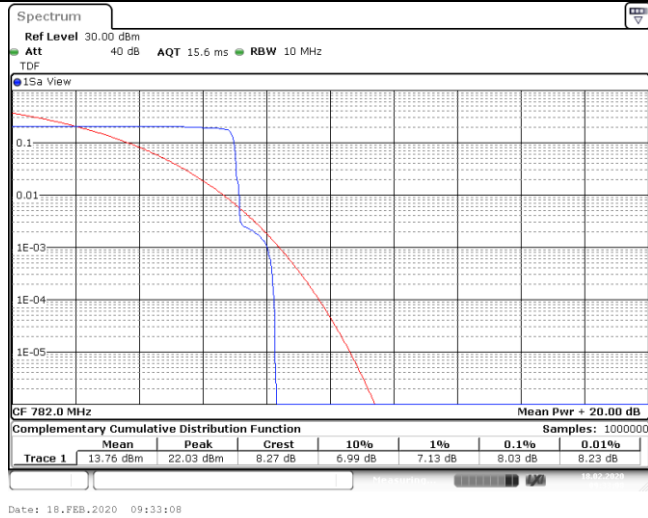
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band13	Stand-Alone	NaN	QPSK	23230	3@3	15kHz	8.49	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@11	15kHz	11.48	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	8.03	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	3@3	15kHz	9.54	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	6.55	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	8.46	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	3.1	<=13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	3.86	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@47	3.75kHz	1.97	<=13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	1.97	<=13	PASS

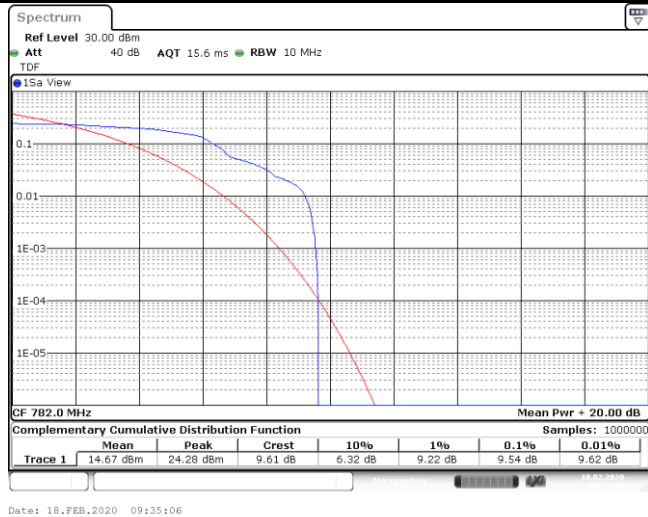
Test Graphs



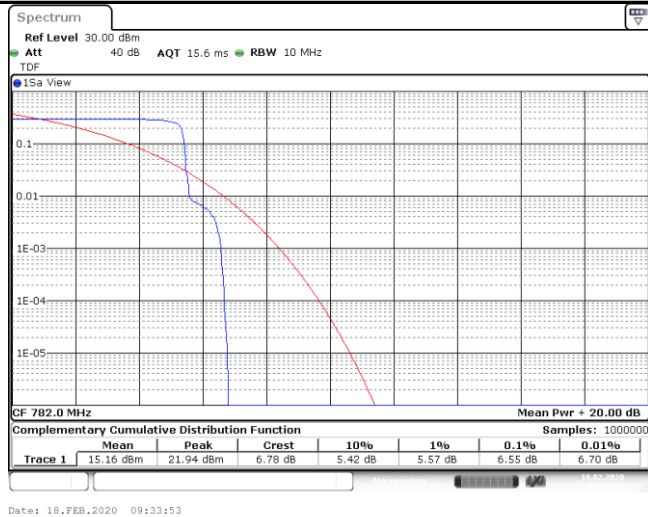
Band13_Stand-Alone_NaN_QPSK_23230_1@0_15kHz_8.03_<=13_PASS__



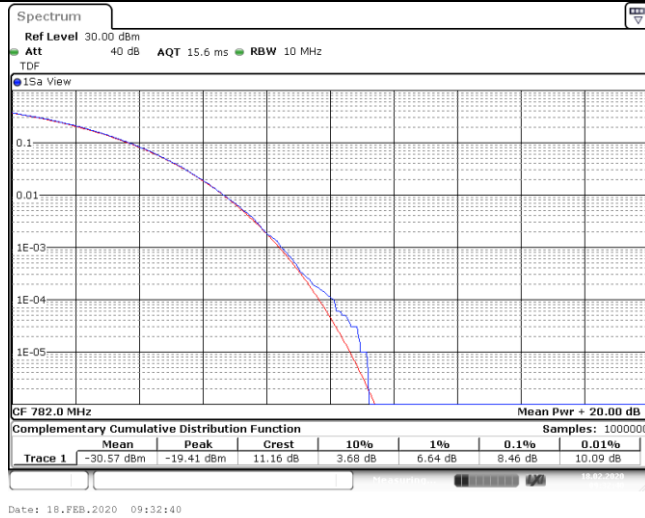
Band13_Stand-Alone_NaN_BPSK_23230_3@3_15kHz_9.54_<=13_PASS__



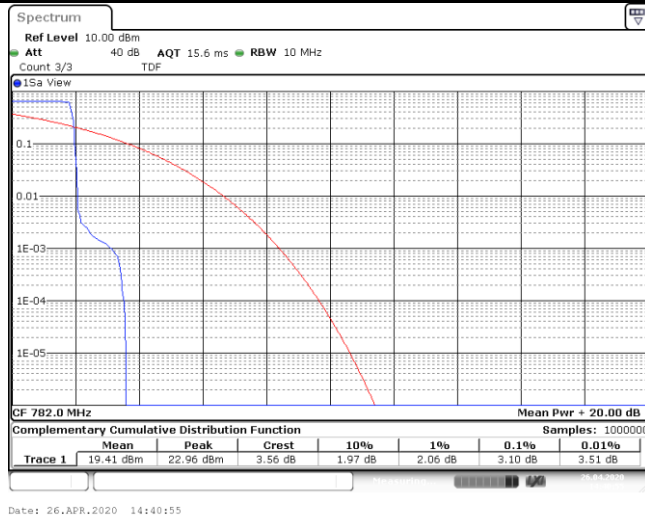
Band13_Stand-Alone_NaN_BPSK_23230_1@11_15kHz_6.55_<=13_PASS__



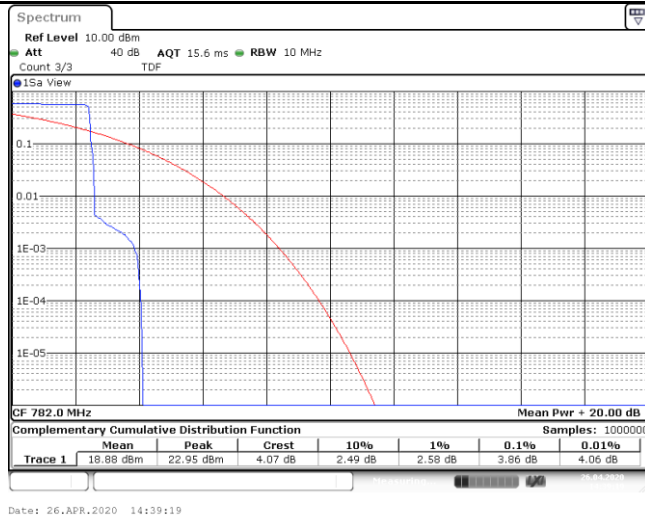
Band13_Stand-Alone_NaN_BPSK_23230_1@0_15kHz_8.46_<=13_PASS__



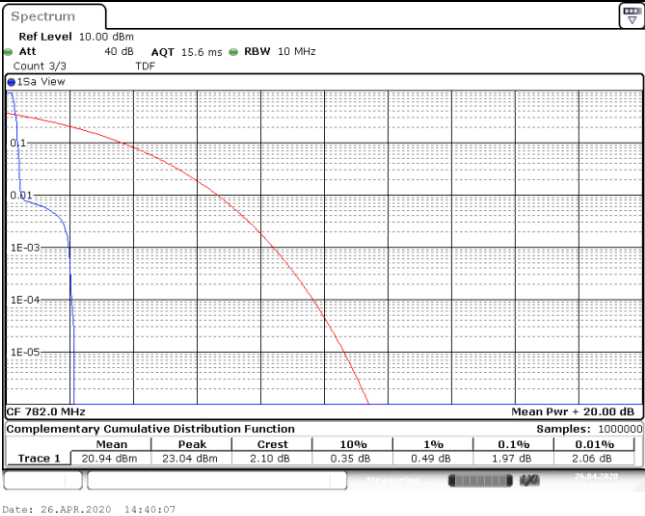
Band13_Stand-Alone_NaN_QPSK_23230_1@47_3.75kHz_3.1_<=13_PASS__



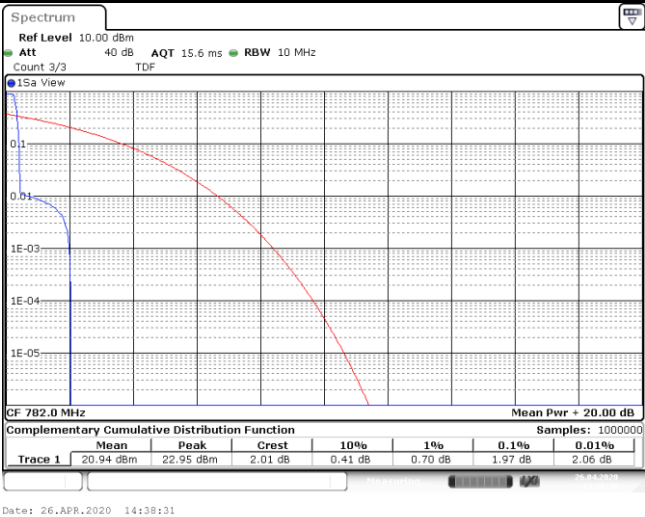
Band13_Stand-Alone_NaN_QPSK_23230_1@0_3.75kHz_3.86_<=13_PASS__



Band13_Stand-Alone_NaN_BPSK_23230_1@47_3.75kHz_1.97_<=13_PASS__



Band13_Stand-Alone_NaN_BPSK_23230_1@0_3.75kHz_1.97_<=13_PASS__

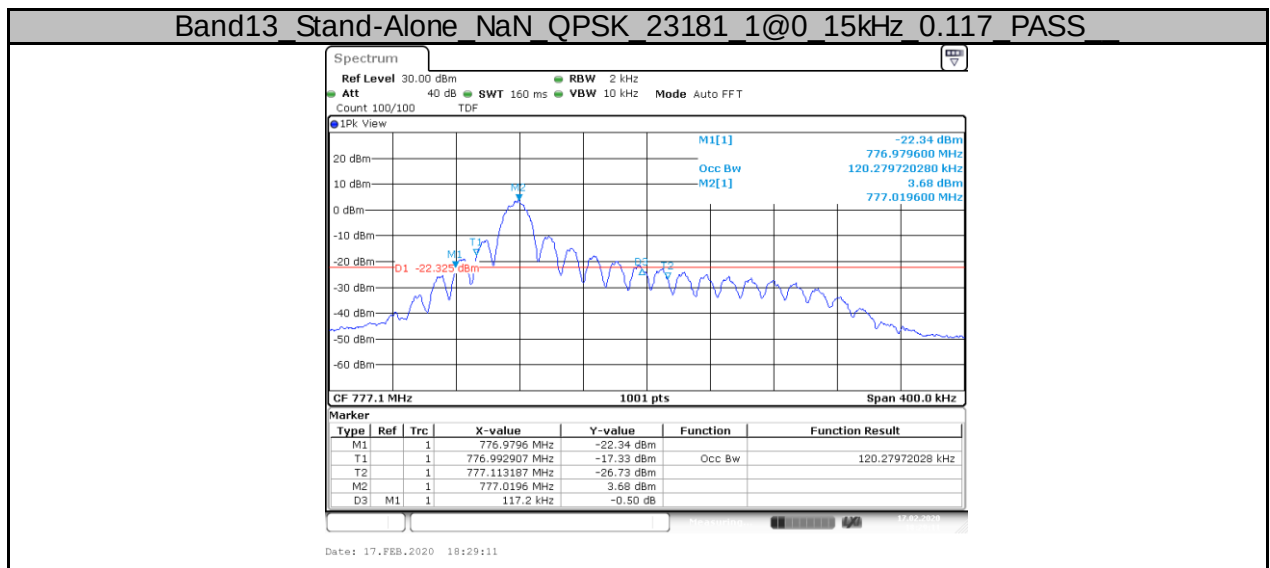


Appendix E.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

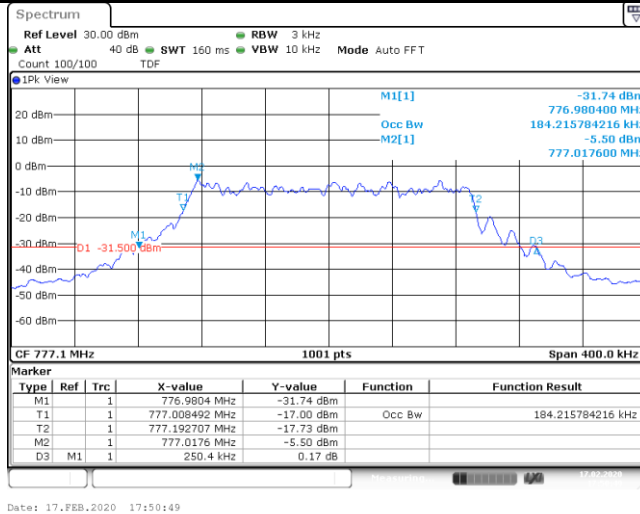
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	0.117	0.120	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	15kHz	0.118	0.120	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	0.118	0.120	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	0.250	0.184	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	0.106	0.128	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	0.106	0.127	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	0.106	0.128	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	0.038	0.052	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	0.038	0.052	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	0.034	0.055	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	0.036	0.055	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	0.038	0.049	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	3.75kHz	0.032	0.054	PASS

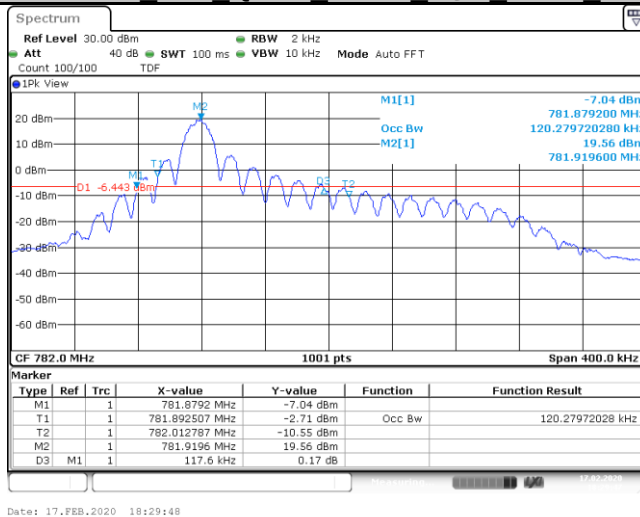
Test Graphs



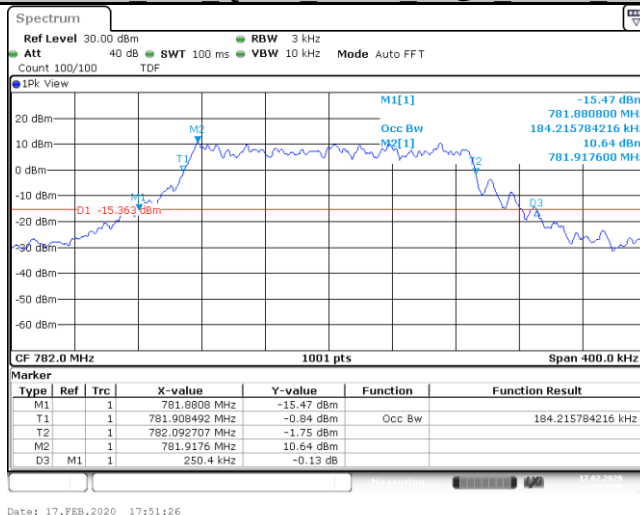
Band13 Stand-Alone NaN QPSK 23181 12@0 15kHz 0.250 PASS



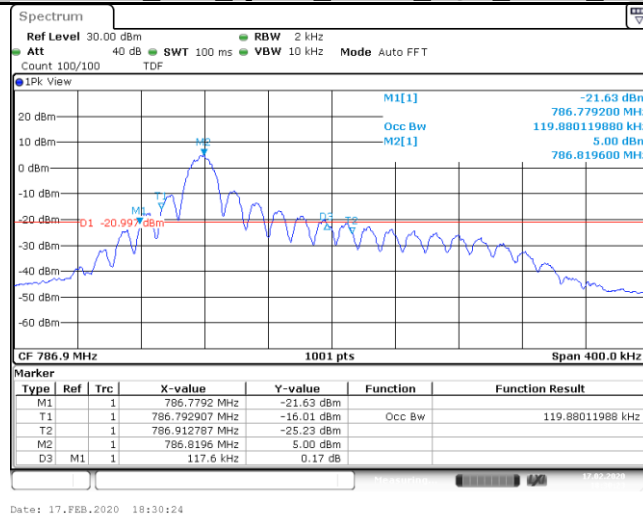
Band13 Stand-Alone NaN QPSK 23230 1@0 15kHz 0.118 PASS



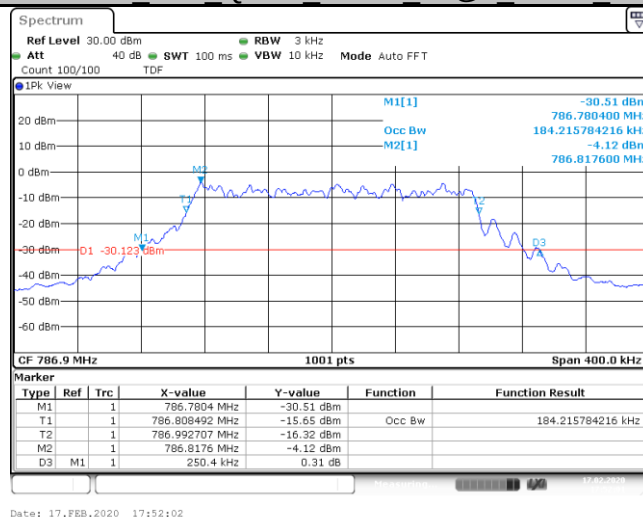
Band13 Stand-Alone NaN QPSK 23230 12@0 15kHz 0.250 PASS



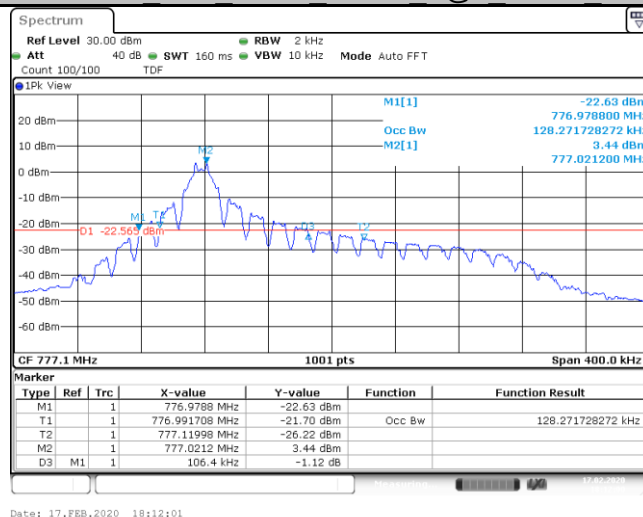
Band13 Stand-Alone NaN QPSK 23279 1@0 15kHz 0.118 PASS



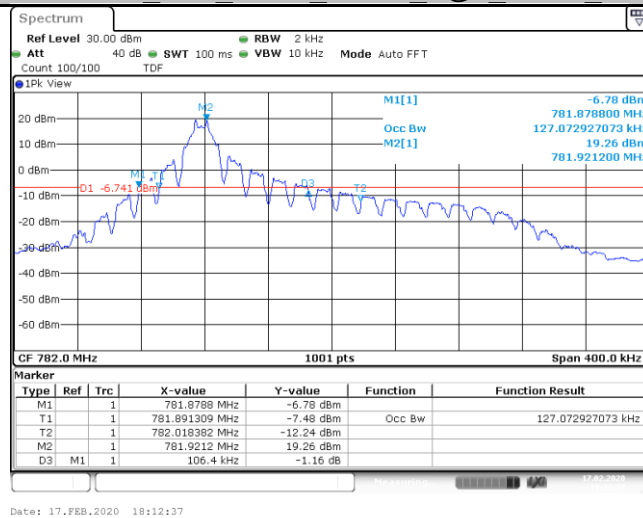
Band13 Stand-Alone NaN QPSK 23279 12@0 15kHz 0.250 PASS



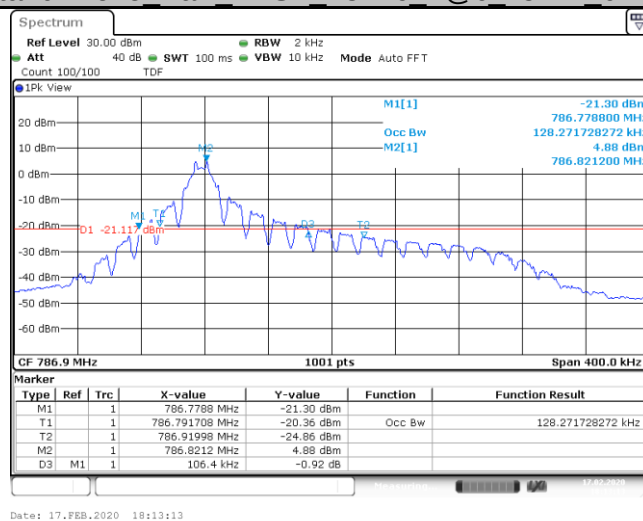
Band13 Stand-Alone NaN BPSK 23181 1@0 15kHz 0.106 PASS



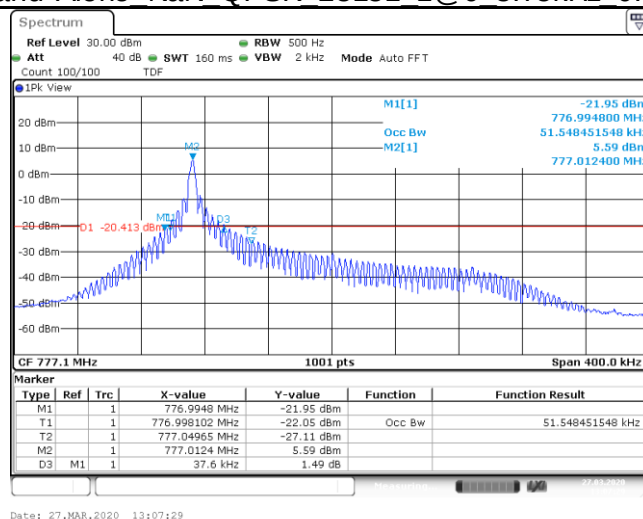
Band13 Stand-Alone NaN BPSK 23230 1@0 15kHz 0.106 PASS



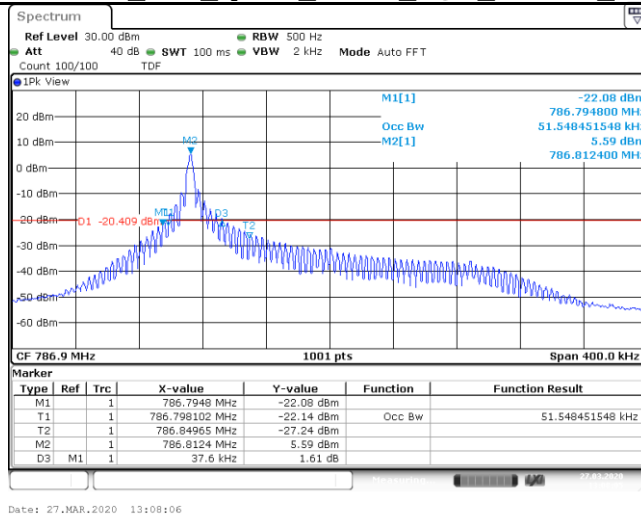
Band13 Stand-Alone NaN BPSK 23279 1@0 15kHz 0.106 PASS



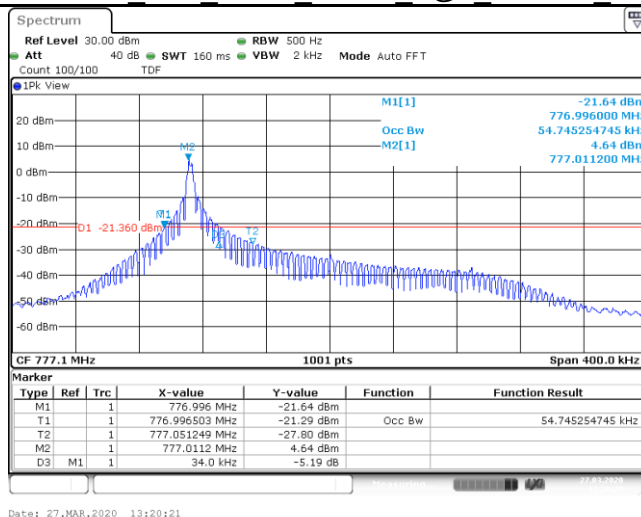
Band13 Stand-Alone NaN QPSK 23181 1@0 3.75kHz 0.038 PASS



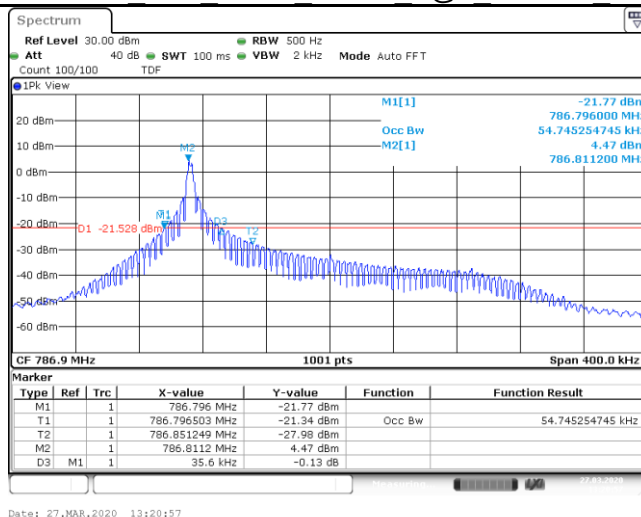
Band13 Stand-Alone NaN QPSK 23279 1@0 3.75kHz 0.038 PASS



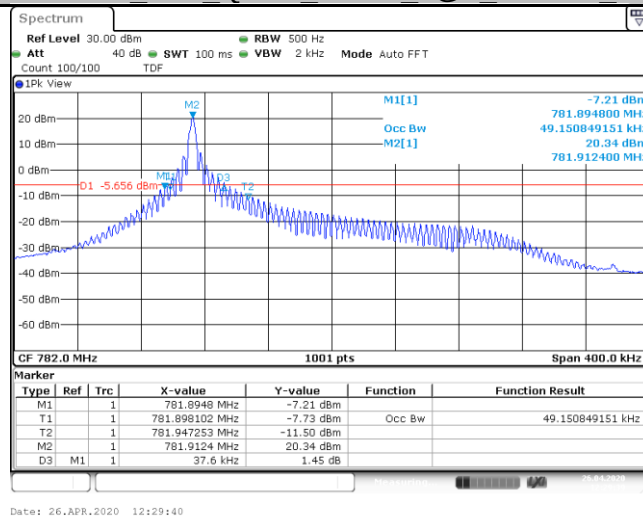
Band13 Stand-Alone NaN BPSK 23181 1@0 3.75kHz 0.034 PASS



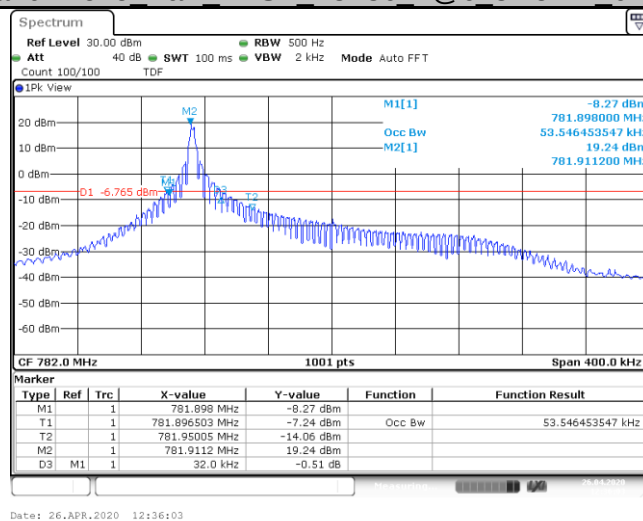
Band13 Stand-Alone NaN BPSK 23279 1@0 3.75kHz 0.036 PASS



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



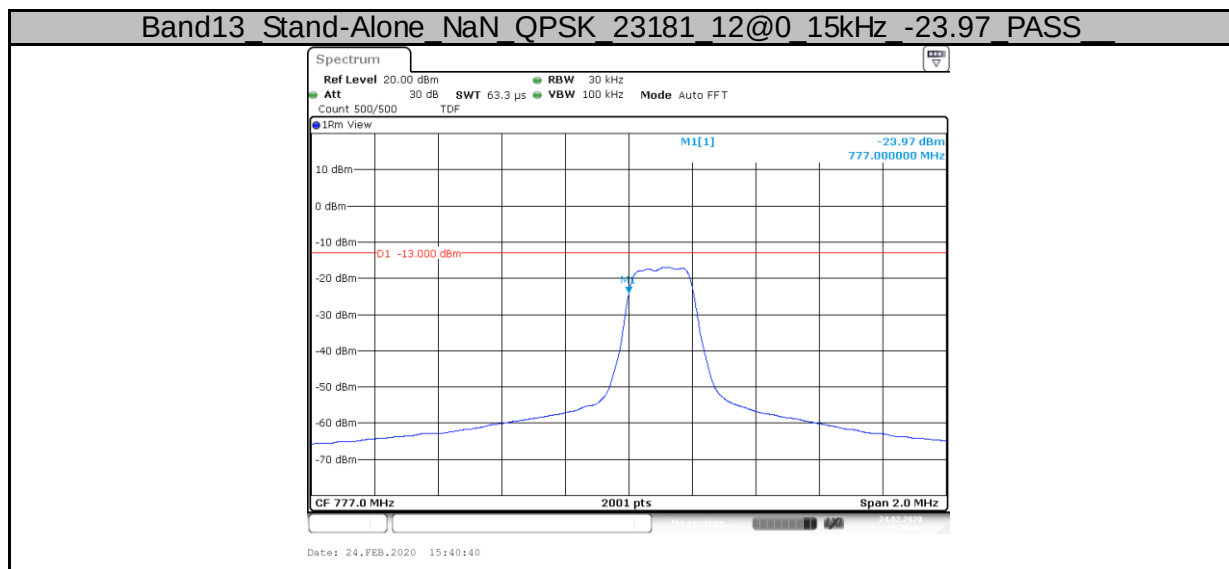
Band13 Stand-Alone NaN BPSK 23230 1@0 3.75kHz 0.032 PASS



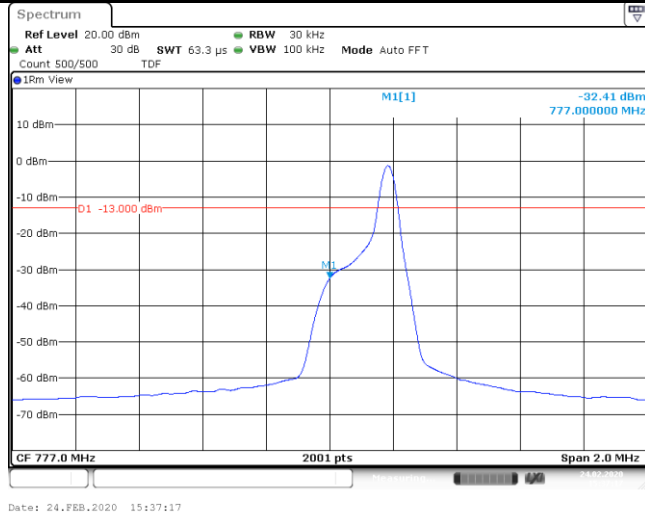
Appendix E.4: Band Edge for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	-23.97	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@11	15kHz	-32.41	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	15kHz	-16.69	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	-21.95	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@11	15kHz	-16.65	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	15kHz	-30.51	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	-30.44	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	-14.81	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@11	15kHz	-15.11	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	-29.09	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@47	3.75kHz	-32.93	PASS
Band13	Stand-Alone	NaN	QPSK	23181	1@0	3.75kHz	-18.08	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@47	3.75kHz	-17.78	PASS
Band13	Stand-Alone	NaN	QPSK	23279	1@0	3.75kHz	-33.59	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@47	3.75kHz	-31.99	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	3.75kHz	-16.66	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@47	3.75kHz	-16.81	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	3.75kHz	-32.09	PASS

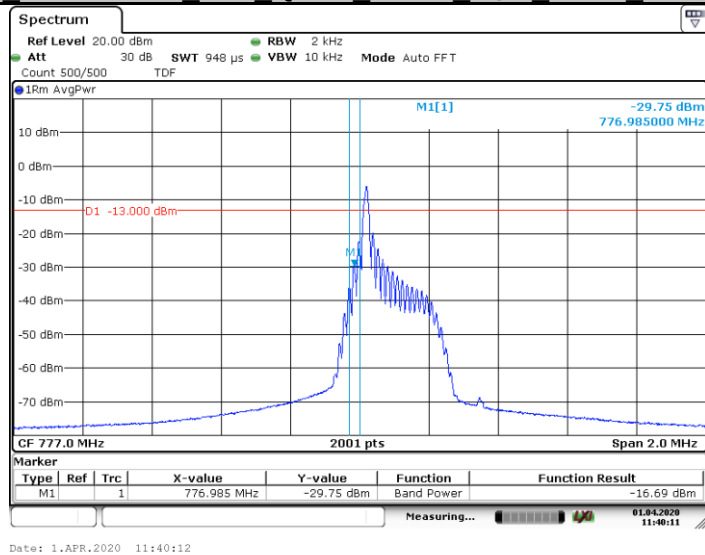
Test Graphs



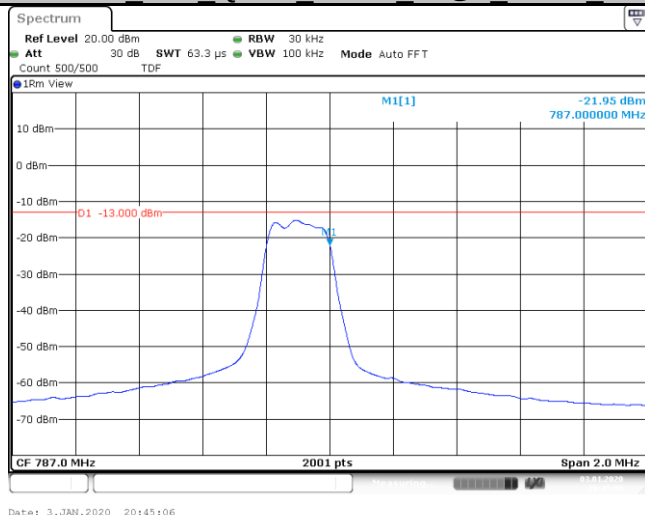
Band13 Stand-Alone NaN QPSK 23181 1@11 15kHz -32.41 PASS



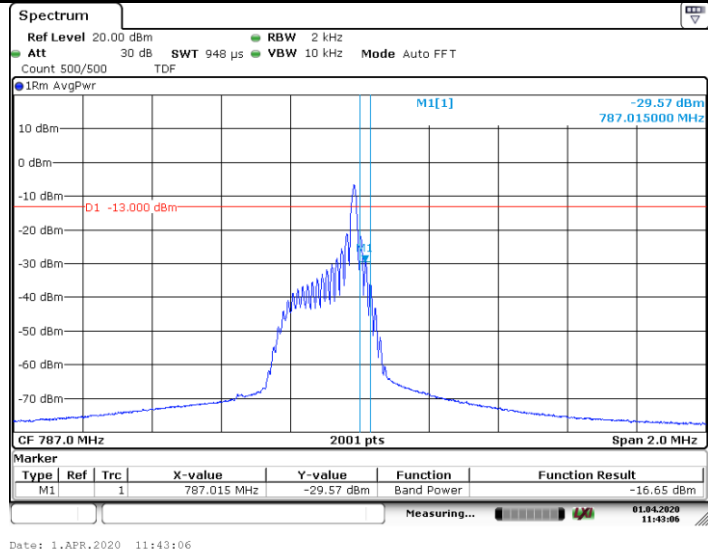
Band13 Stand-Alone NaN QPSK 23181 1@0 15kHz -16.69 PASS



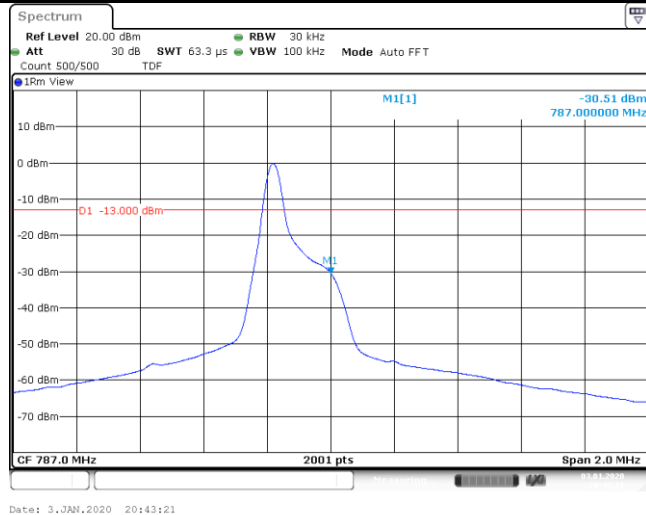
Band13 Stand-Alone NaN QPSK 23279 12@0 15kHz -21.95 PASS



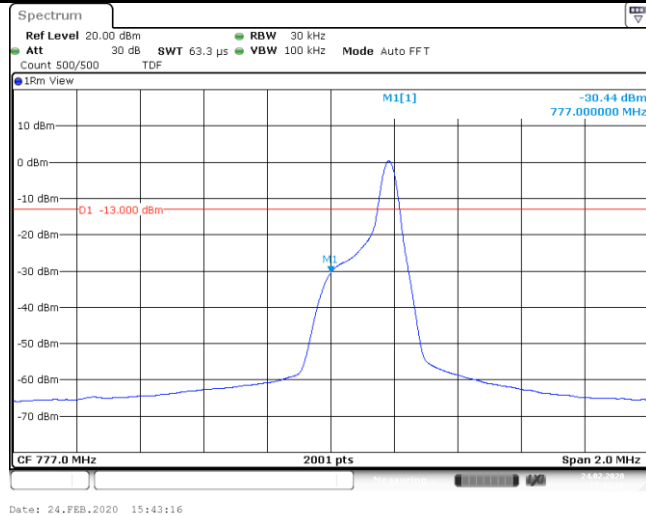
Band13 Stand-Alone NaN QPSK 23279 1@11 15kHz -16.65 PASS



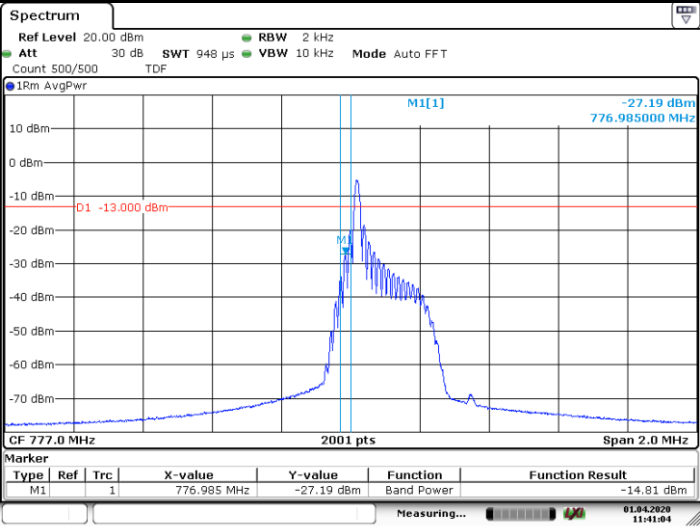
Band13 Stand-Alone NaN QPSK 23279 1@0 15kHz -30.51 PASS



Band13 Stand-Alone NaN BPSK 23181 1@11 15kHz -30.44 PASS

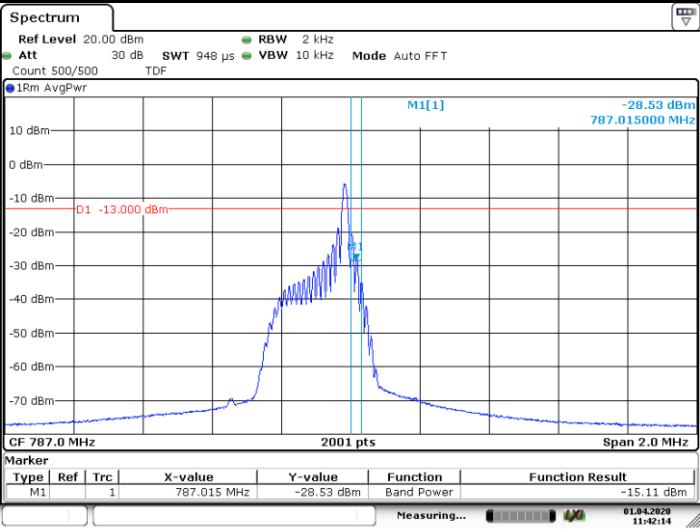


Band13 Stand-Alone NaN BPSK 23181 1@0 15kHz -14.81 PASS



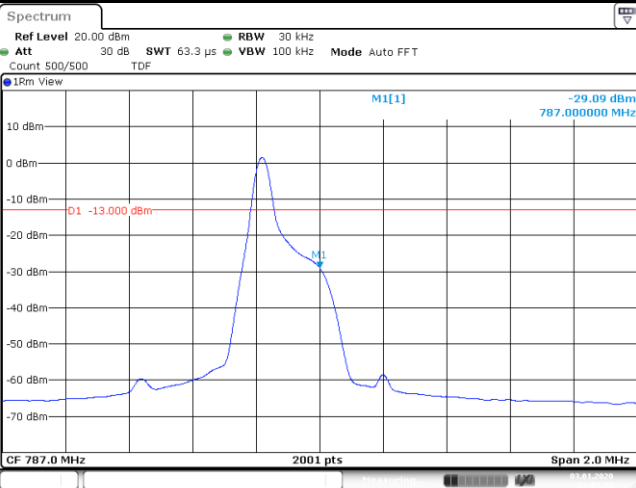
Date: 1.APR.2020 11:41:05

Band13 Stand-Alone NaN BPSK 23279 1@11 15kHz -15.11 PASS



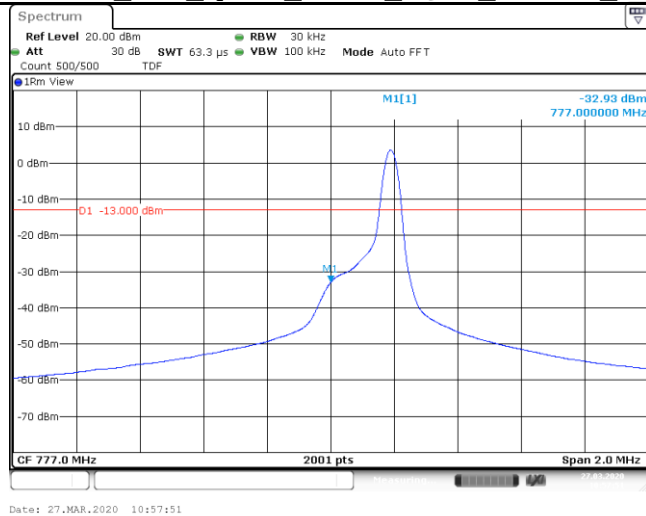
Date: 1.APR.2020 11:42:14

Band13 Stand-Alone NaN BPSK 23279 1@0 15kHz -29.09 PASS

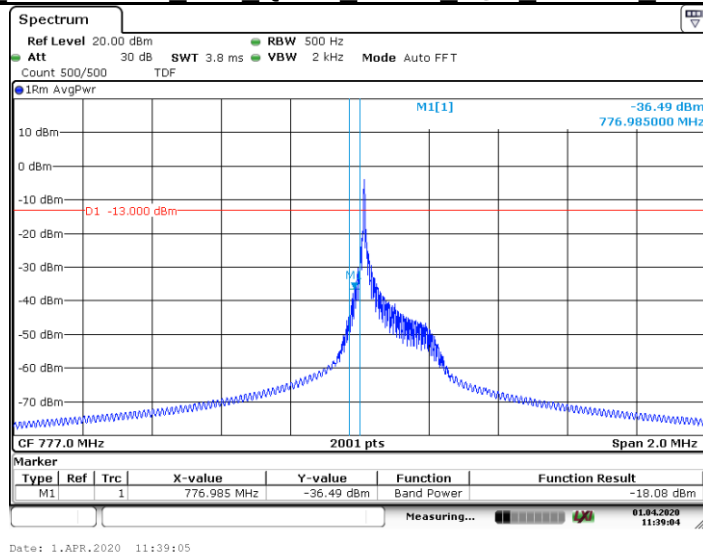


Date: 3.JAN.2020 22:03:28

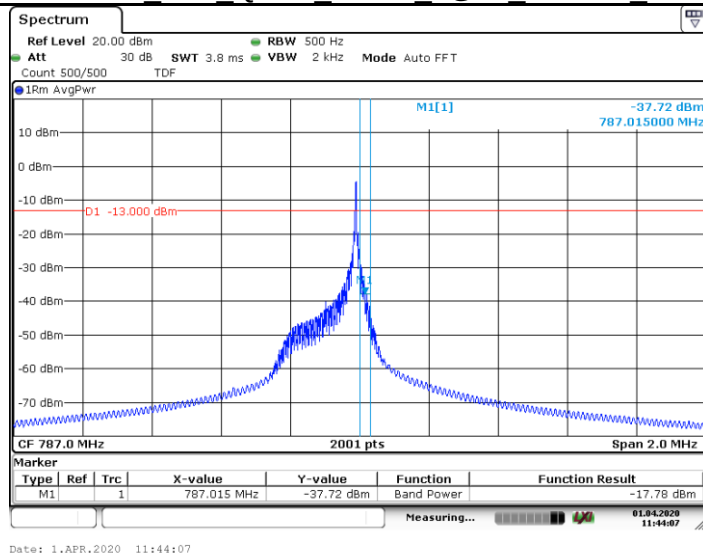
Band13 Stand-Alone NaN QPSK 23181 1@47 3.75kHz -32.93 PASS



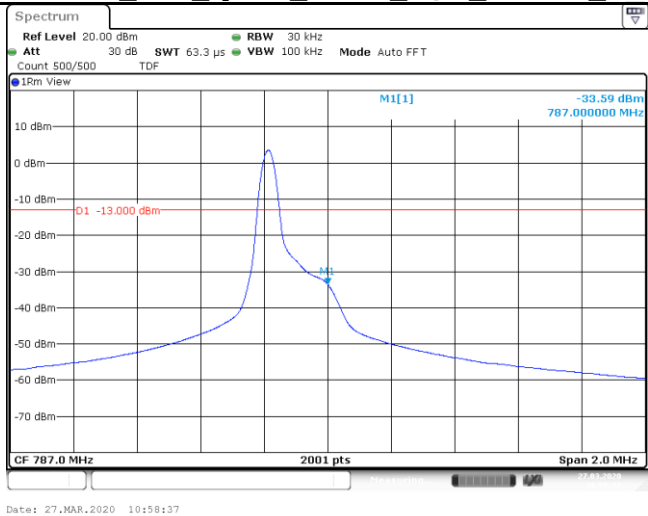
Band13 Stand-Alone NaN QPSK 23181 1@0 3.75kHz -18.08 PASS



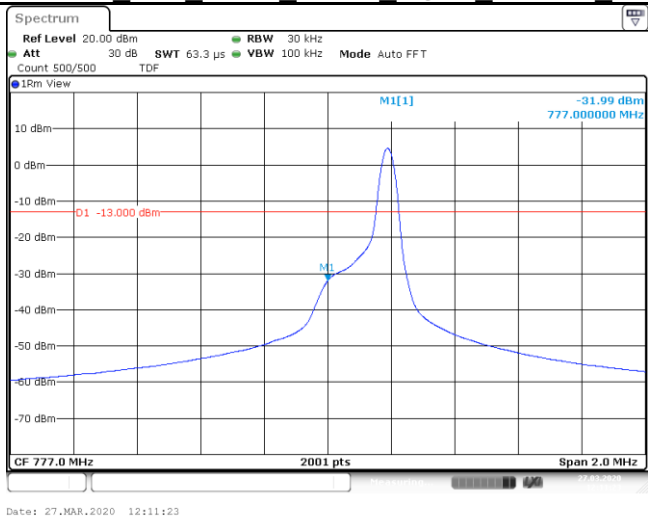
Band13 Stand-Alone NaN QPSK 23279 1@47 3.75kHz -17.78 PASS



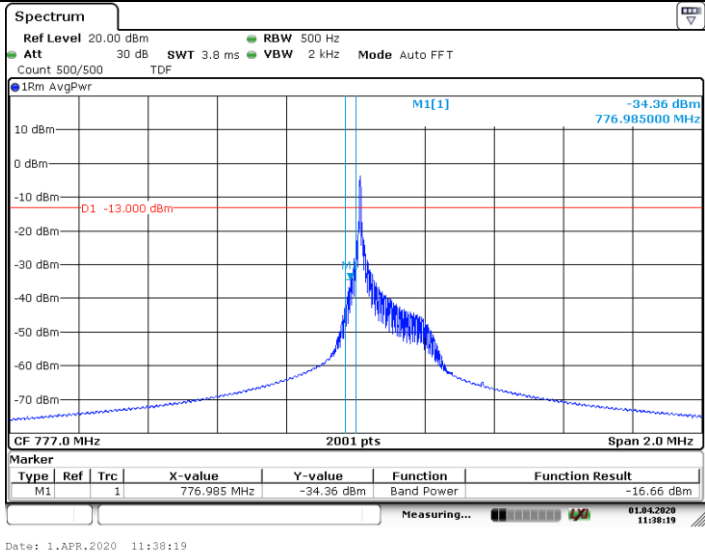
Band13 Stand-Alone NaN QPSK 23279 1@0 3.75kHz -33.59 PASS



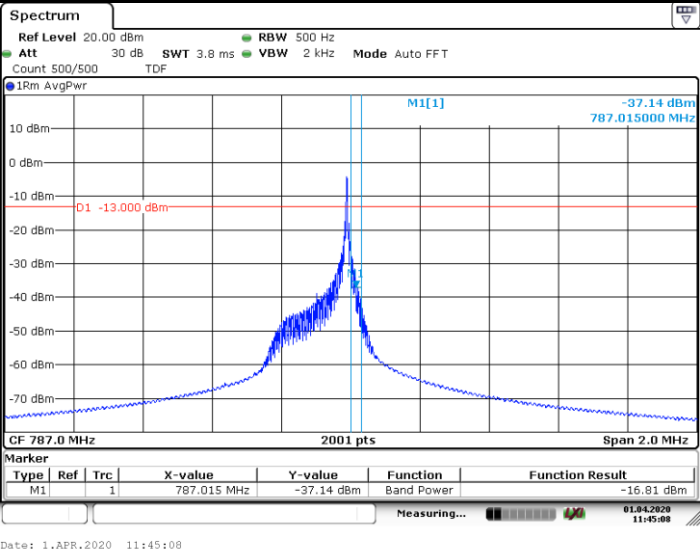
Band13 Stand-Alone NaN BPSK 23181 1@47 3.75kHz -31.99 PASS



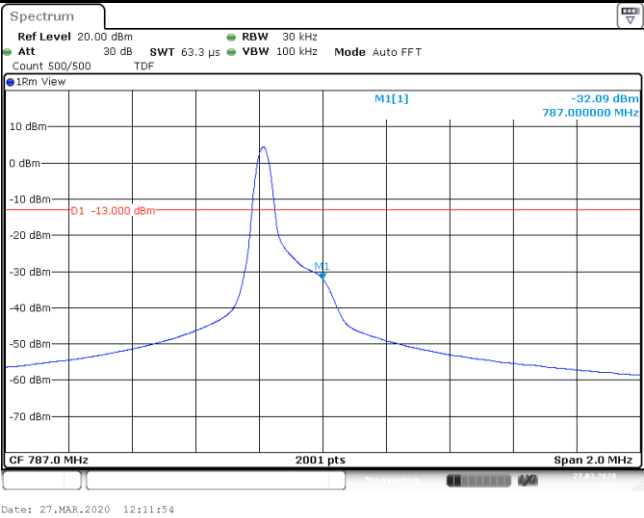
Band13 Stand-Alone NaN BPSK 23181 1@0 3.75kHz -16.66 PASS



Band13 Stand-Alone NaN BPSK 23279 1@47 3.75kHz -16.81 PASS



Band13 Stand-Alone NaN BPSK 23279 1@0 3.75kHz -32.09 PASS



Appendix E.5: Conducted Spurious Emission for NB

Test Result

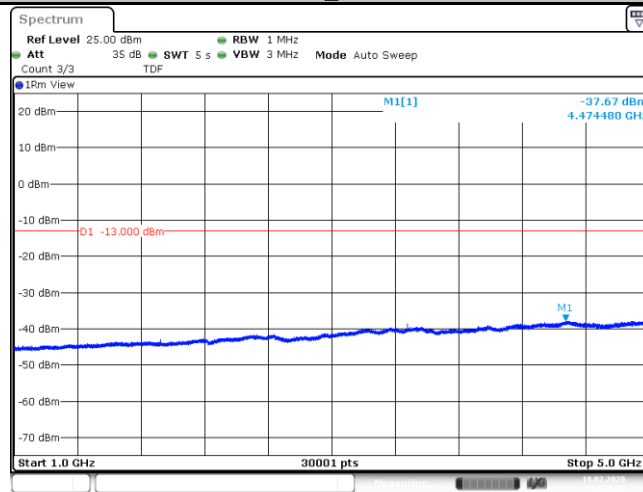
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	1000	5000	1000~5000MHz@-37.67dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	5000	12000	5000~12000MHz@-47.28dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	12000	26500	12000~26500MHz@-41.29dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23181	12@0	15kHz	30	1000	30~1000MHz@-35.28dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	30	1000	30~1000MHz@-35.34dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	1000	5000	1000~5000MHz@-37.72dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	5000	12000	5000~12000MHz@-47.42dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	12@0	15kHz	12000	26500	12000~26500MHz@-41.31dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	12000	26500	12000~26500MHz@-41.36dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	5000	12000	5000~12000MHz@-47.27dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	30	1000	30~1000MHz@-35.04dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23279	12@0	15kHz	1000	5000	1000~5000MHz@-37.59dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	1000	5000	1000~5000MHz@-37.7dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	12000	26500	12000~26500MHz@-41.28dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	30	1000	30~1000MHz@-35.47dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	1000	5000	1000~5000MHz@-37.86dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	5000	12000	5000~12000MHz@-47.13dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@11	15kHz	12000	26500	12000~26500MHz@-41.25dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	30	1000	30~1000MHz@-36.07dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23181	1@0	15kHz	5000	12000	5000~12000MHz@-47.11dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	12000	26500	12000~26500MHz@-41.25dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	5000	12000	5000~12000MHz@-47.19dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	1000	5000	1000~5000MHz@-37.72dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@11	15kHz	30	1000	30~1000MHz@-34.55dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	12000	26500	12000~26500MHz@-41.26dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	5000	12000	5000~12000MHz@-47.21dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	1000	5000	1000~5000MHz@-37.69dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23230	1@0	15kHz	30	1000	30~1000MHz@-35.87dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	30	1000	30~1000MHz@-35.17dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	1000	5000	1000~5000MHz@-37.68dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	5000	12000	5000~12000MHz@-47.44dBm	-13	PASS
Band13	Stand-Alone	NaN	BPSK	23279	1@0	15kHz	12000	26500	12000~26500MHz@-41.21dBm	-13	PASS
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

Produkte
Products

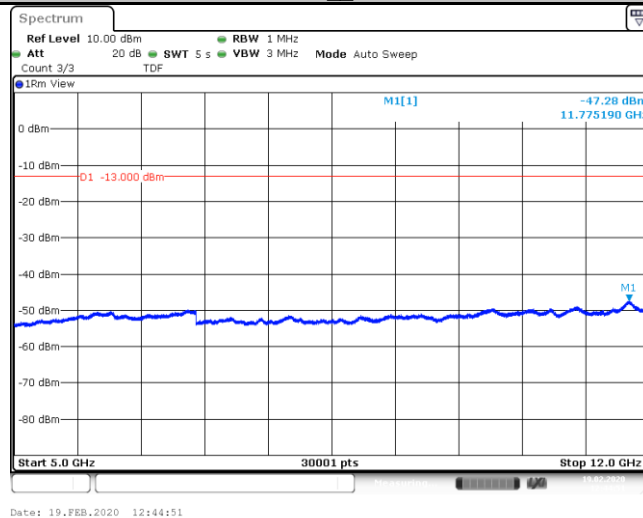
Band13	Stand-Alone	NaN	QPSK	23230	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.82dBm	-13	PASS
Band13	Stand-Alone	NaN	QPSK	23230	1@0	3.75kHz	30	1000	30~1000MHz@-35.83dBm	-13	PASS

Test Graphs

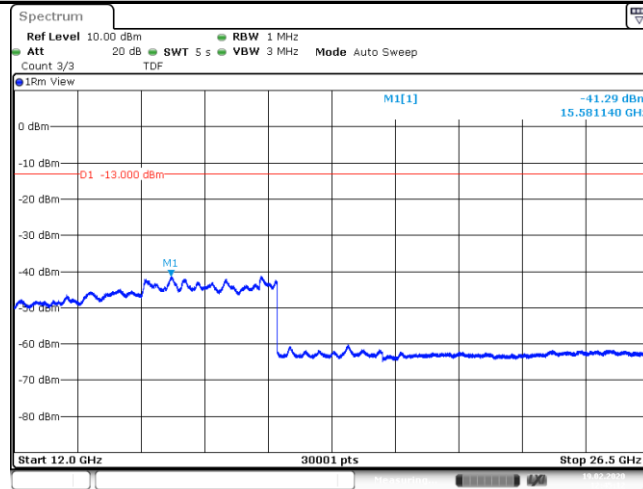
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Band13_Stand-Alone_NaN_QPSK_23181_12@0_15kHz_5000_12000_5000~12000MHz@-47.28dBm_-13_PAS
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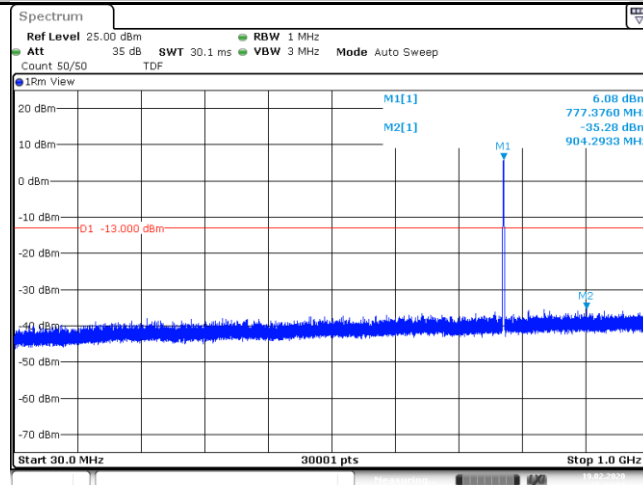


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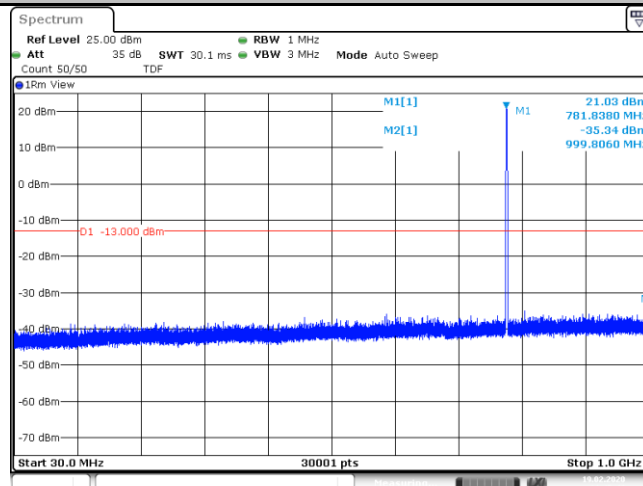
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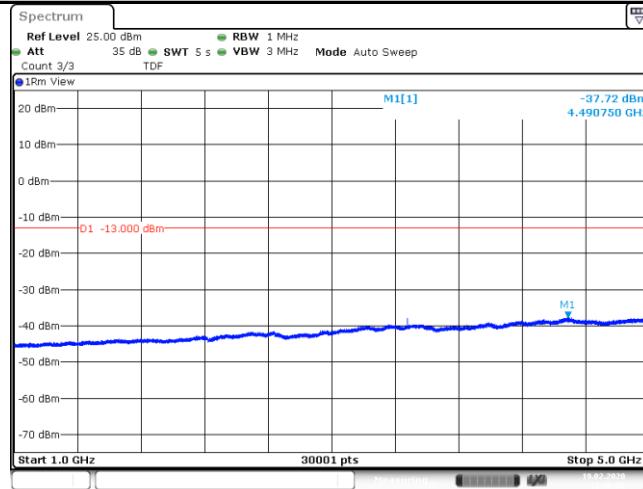
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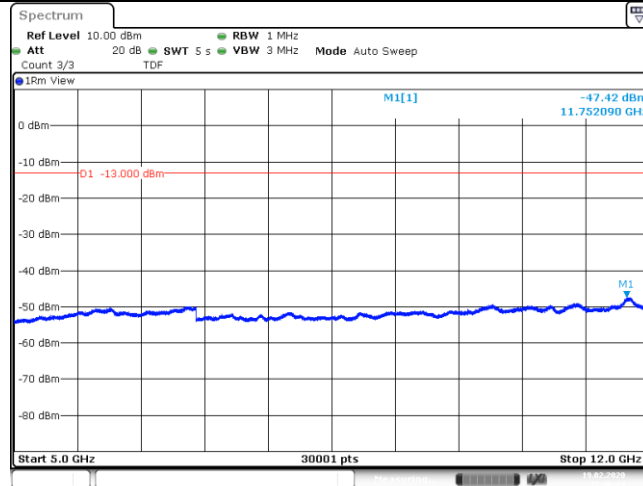


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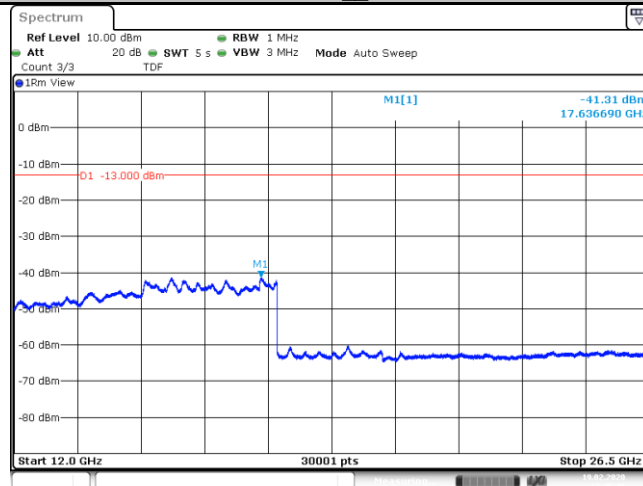
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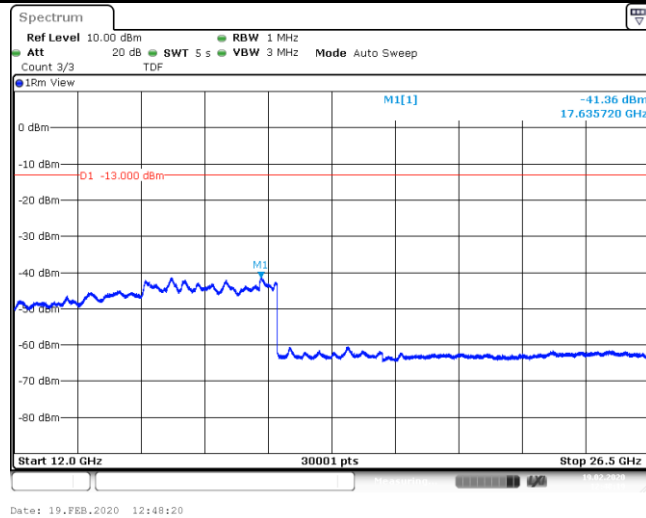
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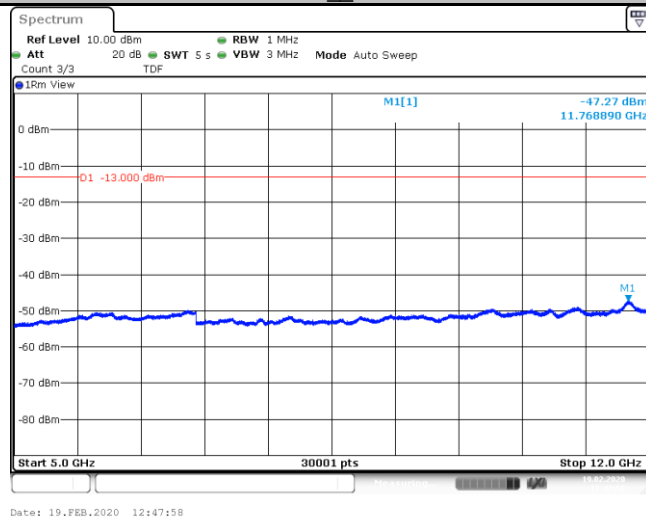
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ASS_



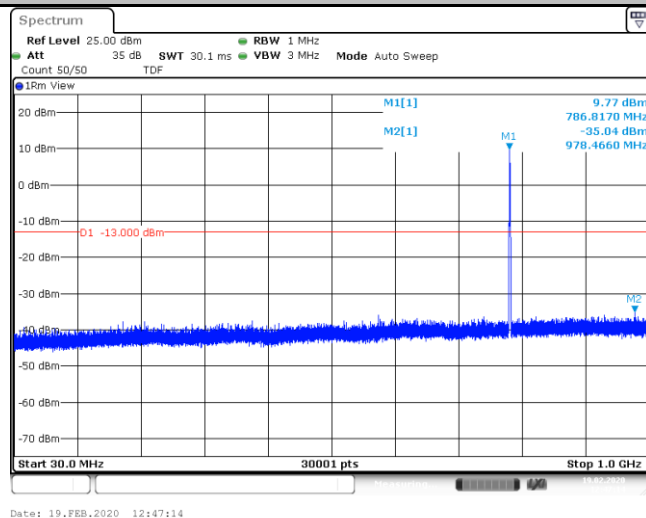
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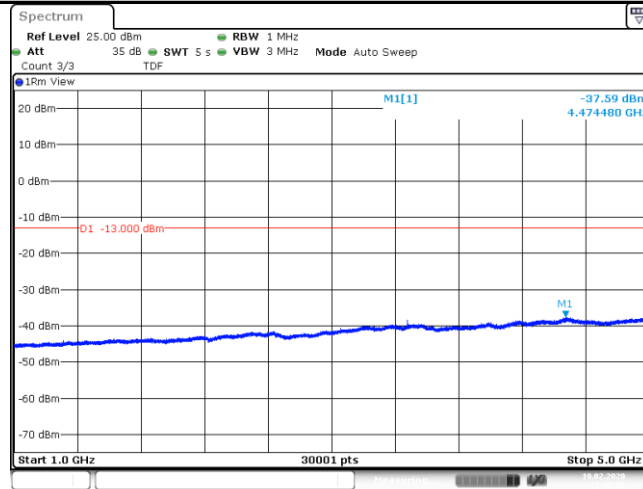
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Band13_Stand-Alone_NaN_QPSK_23279_12@0_15kHz_30_1000_30~1000MHz@-35.04dBm_-13_PASS

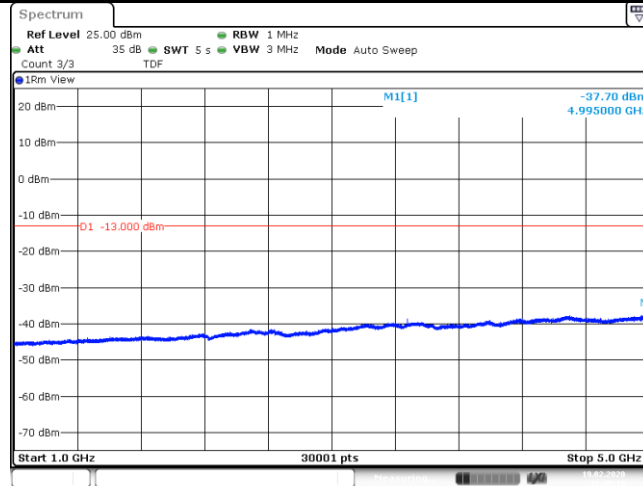


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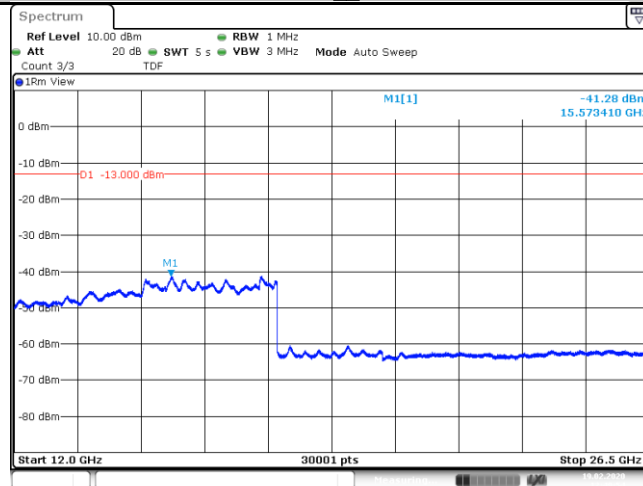
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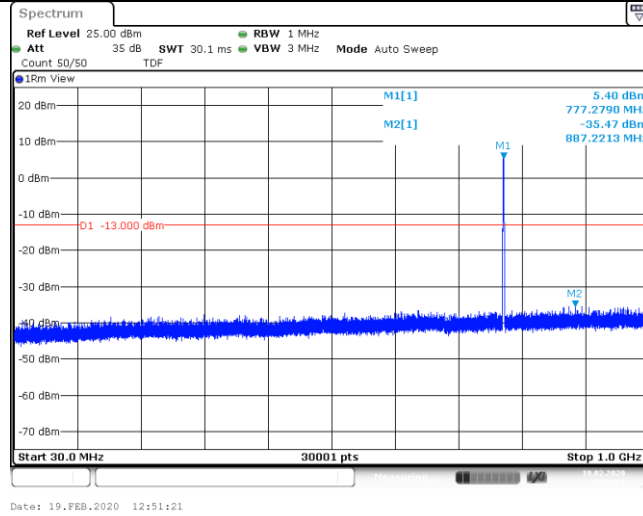
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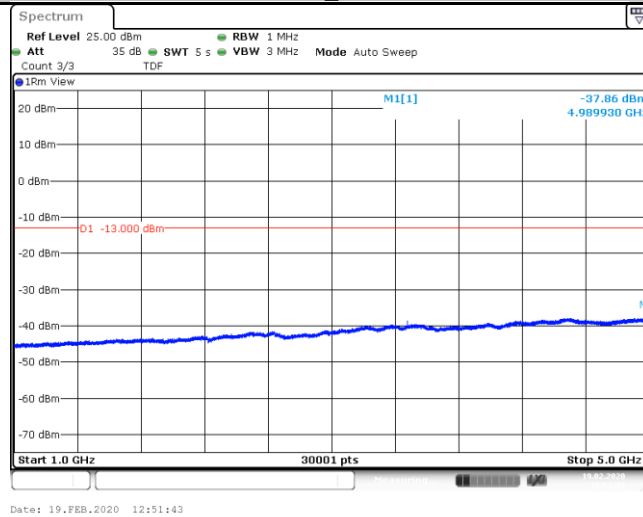


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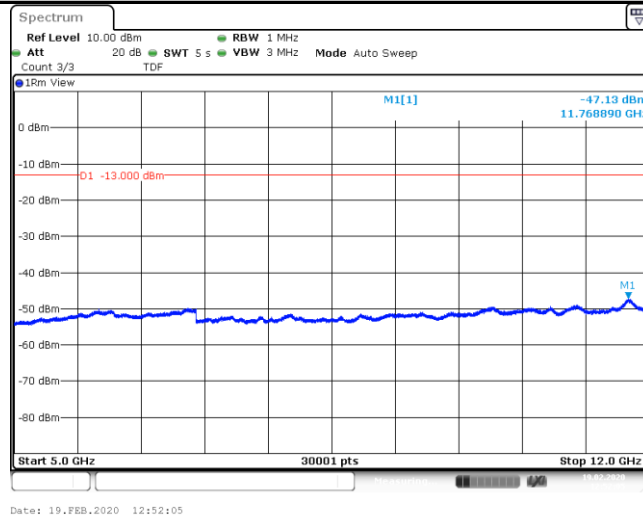
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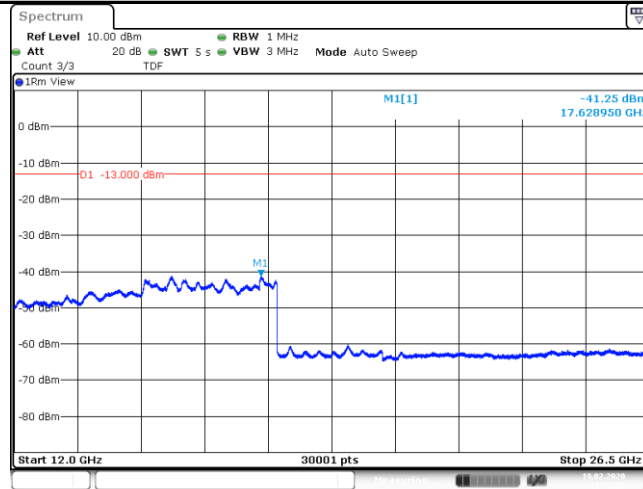
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Band13_Stand-Alone_NaN_BPSK_23181_1@11_15kHz_5000_12000_5000~12000MHz@-47.13dBm_-13_PAS
S__

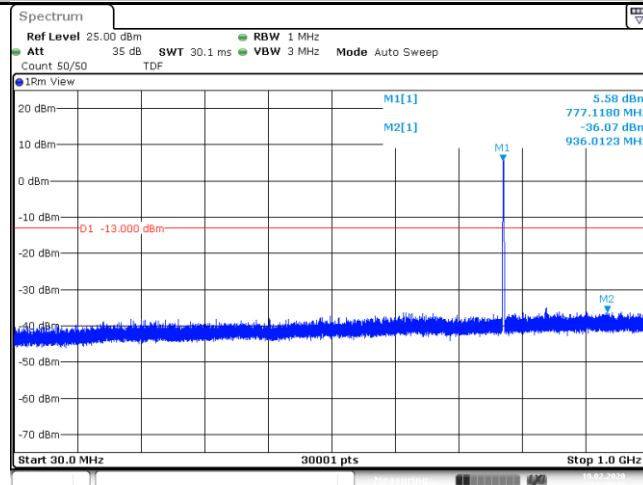


Band13_Stand-Alone_NaN_BPSK_23181_1@11_15kHz_12000_26500_12000~26500MHz@-41.25dBm_-13_PA
SS__



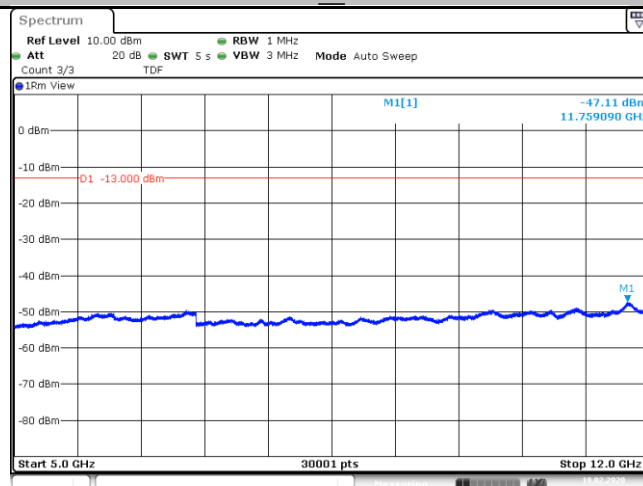
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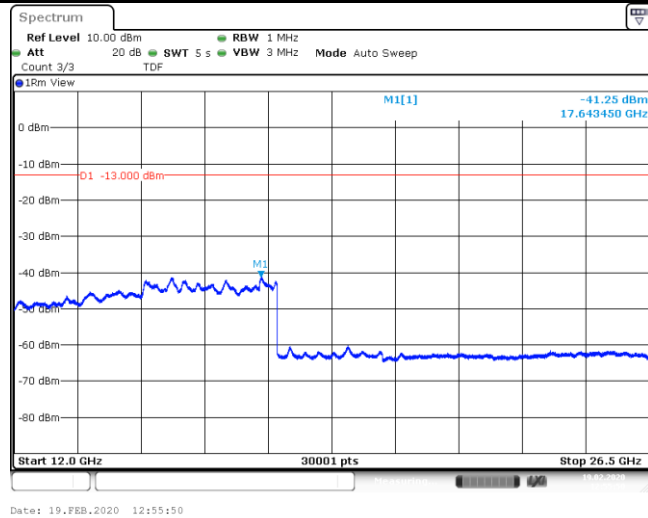
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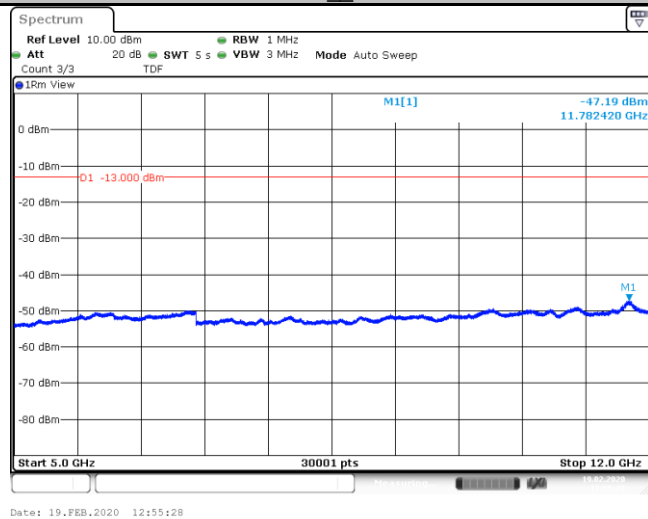


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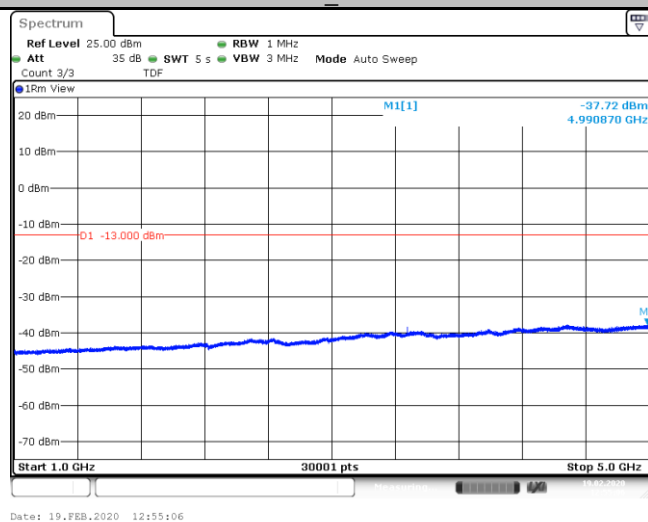
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SS



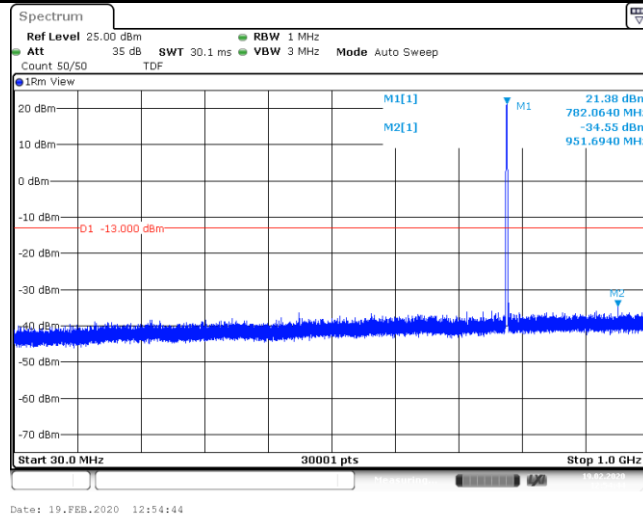
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S



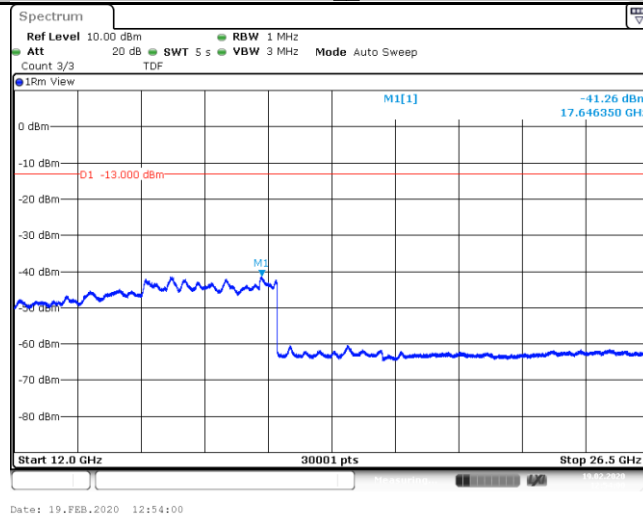
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S



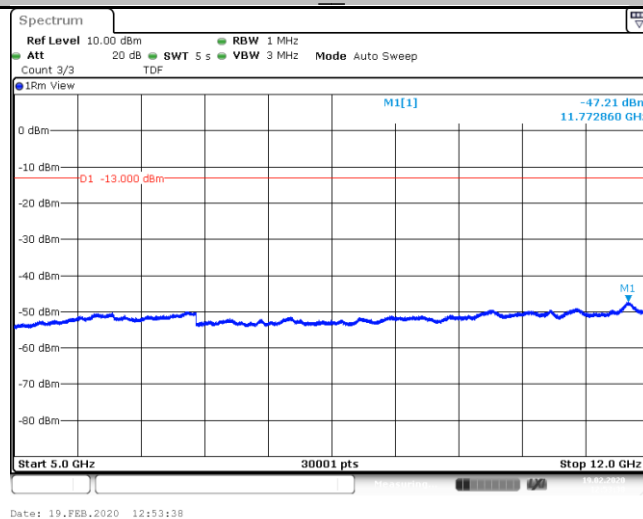
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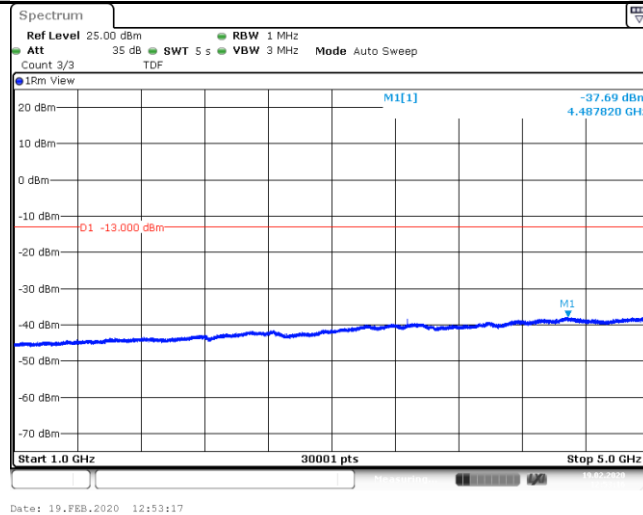
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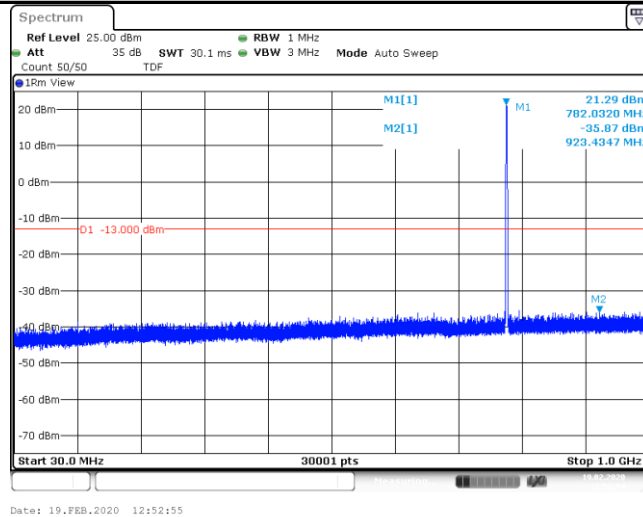
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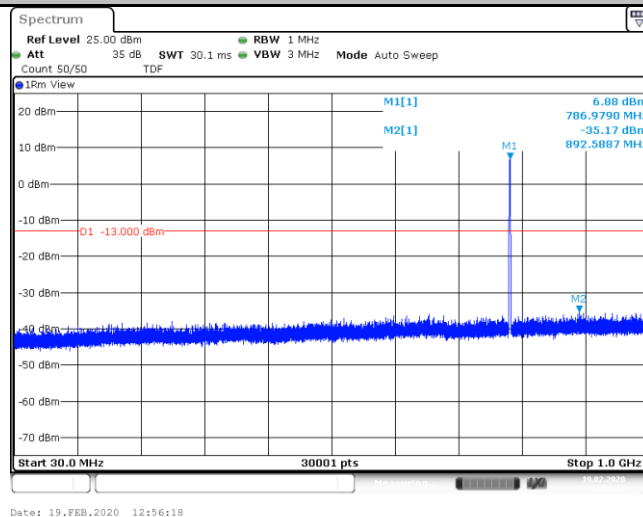
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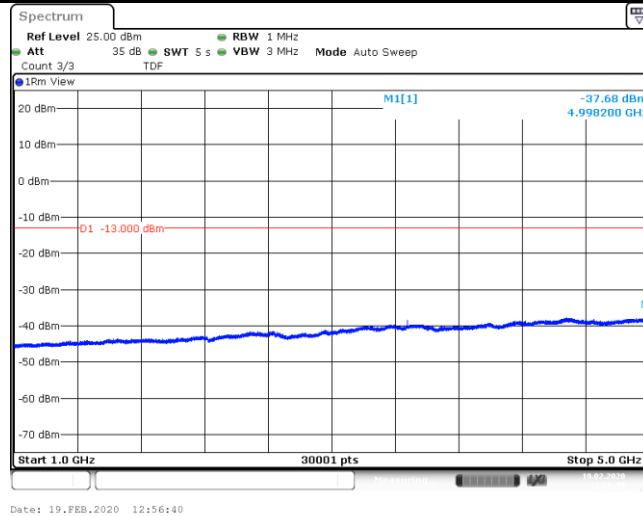
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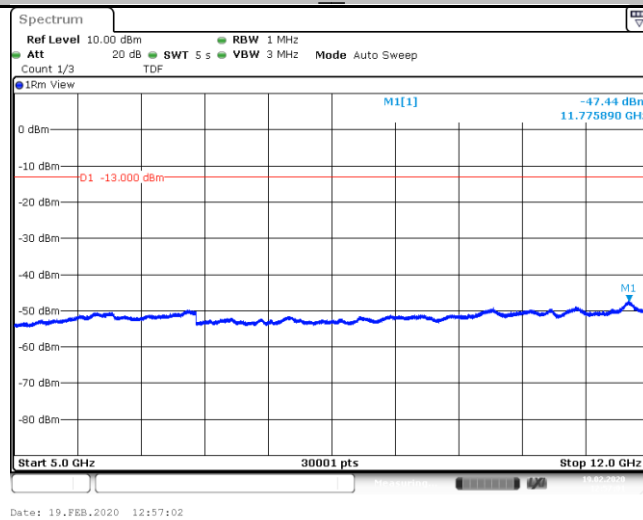
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Band13_Stand-Alone_NaN_BPSK_23279_1@0_15kHz_1000_5000_1000~5000MHz@-37.68dBm_-13_PASS__



Band13_Stand-Alone_NaN_BPSK_23279_1@0_15kHz_5000_12000_5000~12000MHz@-47.44dBm_-13_PASS



Band13_Stand-Alone_NaN_BPSK_23279_1@0_15kHz_12000_26500_12000~26500MHz@-41.21dBm_-13_PA SS

