

Appendix K: Test Results of Band 85 for NB-IoT operation

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

Test Result

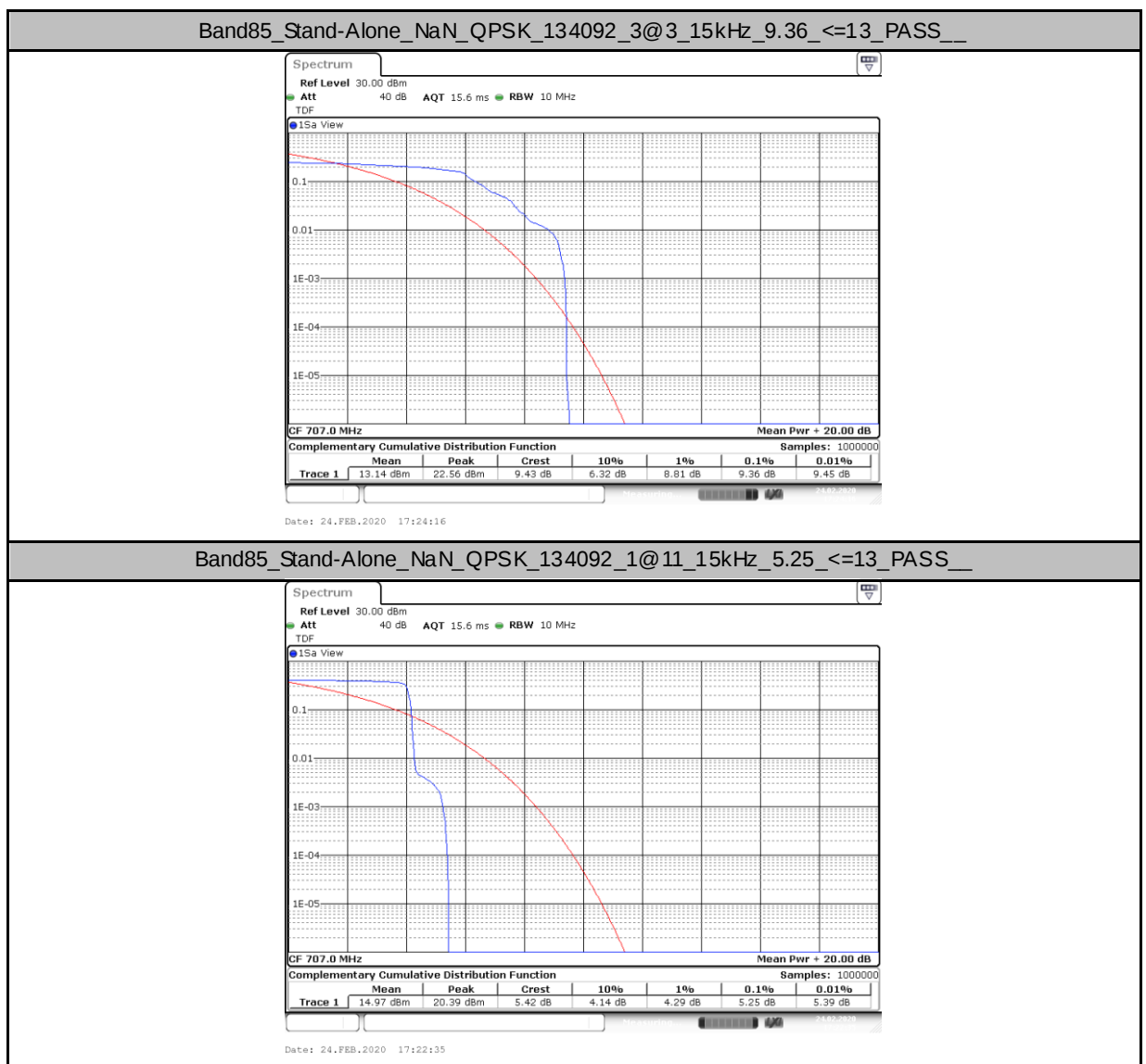
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band85	Stand-Alone	NaN	QPSK	134003	1@0	15kHz	11.91	11.9	0.015	3	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@11	15kHz	11.78	11.77	0.015	3	PASS
Band85	Stand-Alone	NaN	QPSK	134003	3@3	15kHz	11.97	11.96	0.016	3	PASS
Band85	Stand-Alone	NaN	QPSK	134004	1@0	15kHz	21.44	21.43	0.139	3	PASS
Band85	Stand-Alone	NaN	QPSK	134004	3@3	15kHz	24.26	24.25	0.266	3	PASS
Band85	Stand-Alone	NaN	QPSK	134004	1@11	15kHz	21.39	21.38	0.137	3	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	23.22	23.21	0.209	3	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	23.30	23.29	0.213	3	PASS
Band85	Stand-Alone	NaN	QPSK	134092	3@3	15kHz	23.30	23.29	0.213	3	PASS
Band85	Stand-Alone	NaN	QPSK	134180	1@11	15kHz	24.37	24.36	0.273	3	PASS
Band85	Stand-Alone	NaN	QPSK	134180	1@0	15kHz	24.43	24.42	0.277	3	PASS
Band85	Stand-Alone	NaN	QPSK	134180	3@3	15kHz	23.99	23.98	0.250	3	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@11	15kHz	11.60	11.59	0.014	3	PASS
Band85	Stand-Alone	NaN	QPSK	134181	3@3	15kHz	11.78	11.77	0.015	3	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	15kHz	11.65	11.64	0.015	3	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	11.50	11.49	0.014	3	PASS
Band85	Stand-Alone	NaN	BPSK	134003	3@3	15kHz	11.95	11.94	0.016	3	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	11.62	11.61	0.014	3	PASS
Band85	Stand-Alone	NaN	BPSK	134004	1@11	15kHz	21.32	21.31	0.135	3	PASS
Band85	Stand-Alone	NaN	BPSK	134004	1@0	15kHz	21.36	21.35	0.136	3	PASS
Band85	Stand-Alone	NaN	BPSK	134004	3@3	15kHz	22.54	22.53	0.179	3	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	23.02	23.01	0.200	3	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	23.02	23.01	0.200	3	PASS
Band85	Stand-Alone	NaN	BPSK	134092	3@3	15kHz	23.29	23.28	0.213	3	PASS
Band85	Stand-Alone	NaN	BPSK	134180	1@0	15kHz	24.28	24.27	0.267	3	PASS
Band85	Stand-Alone	NaN	BPSK	134180	1@11	15kHz	24.22	24.21	0.264	3	PASS
Band85	Stand-Alone	NaN	BPSK	134180	3@3	15kHz	24.37	24.36	0.273	3	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	11.31	11.3	0.013	3	PASS
Band85	Stand-Alone	NaN	BPSK	134181	3@3	15kHz	11.76	11.75	0.015	3	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	11.60	11.59	0.014	3	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	6.83	6.82	0.005	3	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	6.94	6.93	0.005	3	PASS
Band85	Stand-Alone	NaN	QPSK	134004	1@0	3.75kHz	24.91	24.9	0.309	3	PASS
Band85	Stand-Alone	NaN	QPSK	134004	1@47	3.75kHz	24.91	24.9	0.309	3	PASS
Band85	Stand-Alone	NaN	QPSK	134180	1@0	3.75kHz	24.46	24.45	0.279	3	PASS
Band85	Stand-Alone	NaN	QPSK	134180	1@47	3.75kHz	24.45	24.44	0.278	3	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	6.81	6.8	0.005	3	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	6.86	6.85	0.005	3	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@47	3.75kHz	6.82	6.81	0.005	3	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	3.75kHz	6.82	6.81	0.005	3	PASS
Band85	Stand-Alone	NaN	BPSK	134004	1@47	3.75kHz	24.79	24.78	0.301	3	PASS
Band85	Stand-Alone	NaN	BPSK	134004	1@0	3.75kHz	24.85	24.84	0.305	3	PASS
Band85	Stand-Alone	NaN	BPSK	134180	1@47	3.75kHz	24.40	24.39	0.275	3	PASS
Band85	Stand-Alone	NaN	BPSK	134180	1@0	3.75kHz	24.40	24.39	0.275	3	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@47	3.75kHz	6.73	6.72	0.005	3	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	3.75kHz	6.76	6.75	0.005	3	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	24.56	24.55	0.285	3	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	24.59	24.58	0.287	3	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@47	3.75kHz	24.53	24.52	0.283	3	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	3.75kHz	24.58	24.57	0.286	3	PASS

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

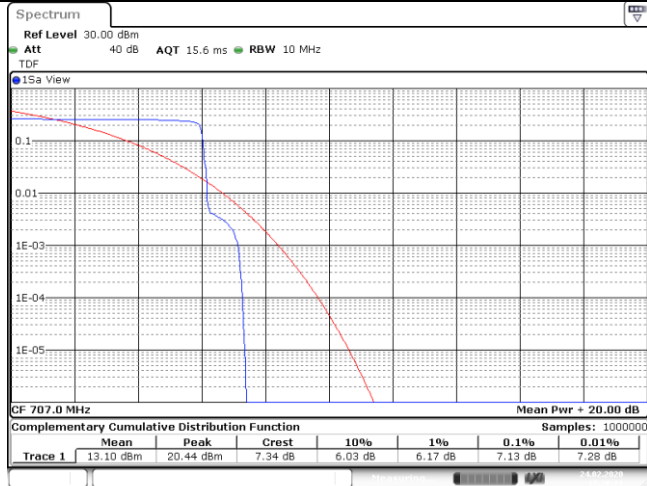
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band85	Stand-Alone	NaN	QPSK	134092	3@3	15kHz	9.36	<=13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	5.25	<=13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	7.13	<=13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	3@3	15kHz	8.41	<=13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	8.75	<=13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	8.41	<=13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	1.59	<=13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	7.54	<=13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@47	3.75kHz	1.97	<=13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	3.75kHz	2.29	<=13	PASS

Test Graphs

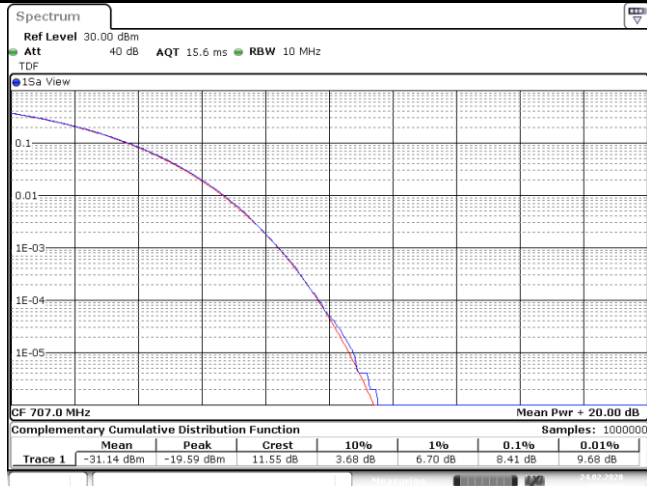


Band85_Stand-Alone_NaN_QPSK_134092_1@0_15kHz_7.13_<=13_PASS__



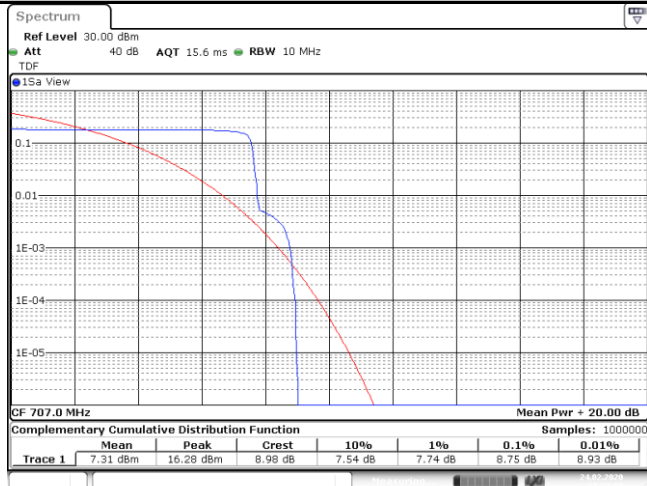
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Band85_Stand-Alone_NaN_BPSK_134092_3@3_15kHz_8.41_<=13_PASS__



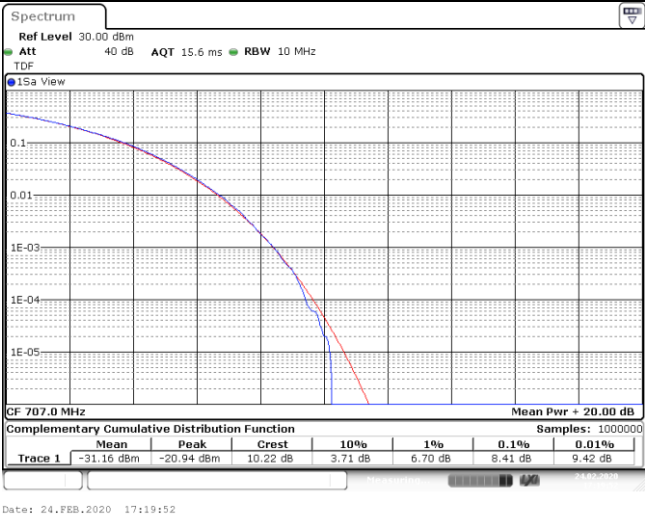
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Band85_Stand-Alone_NaN_BPSK_134092_1@11_15kHz_8.75_<=13_PASS__

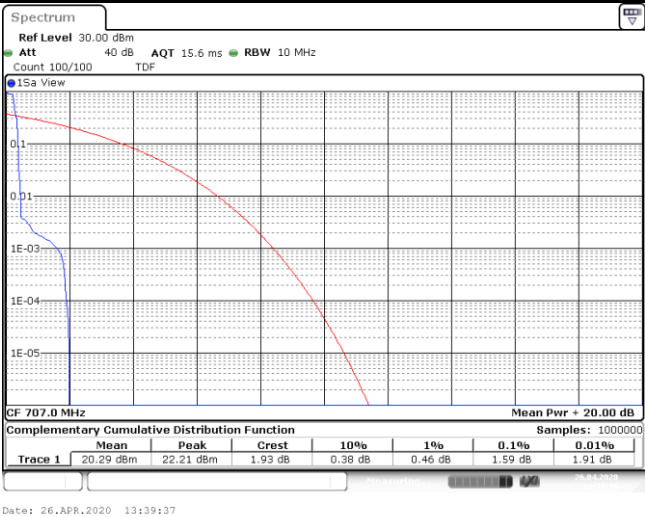


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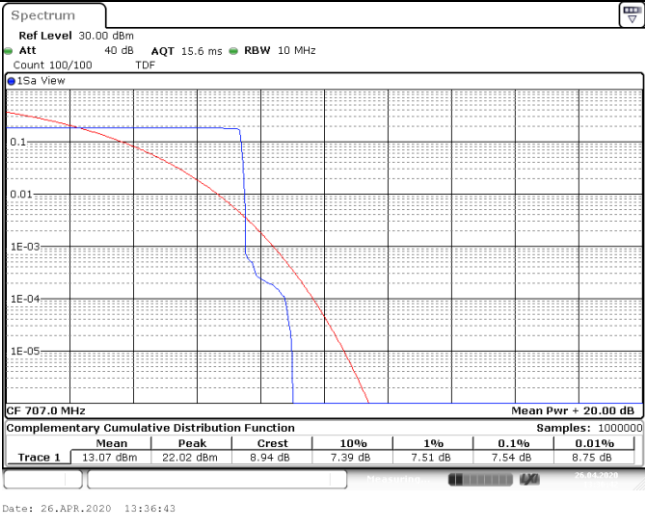
Band85_Stand-Alone_NaN_BPSK_134092_1@0_15kHz_8.41_<=13_PASS__



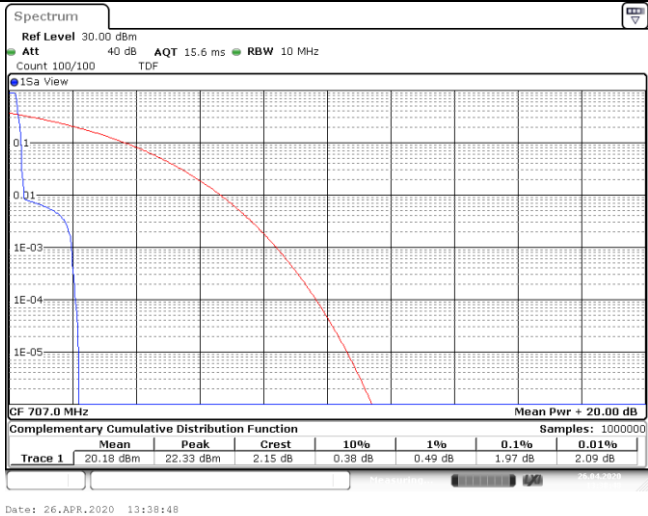
Band85_Stand-Alone_NaN_QPSK_134092_1@47_3.75kHz_1.59_<=13_PASS__



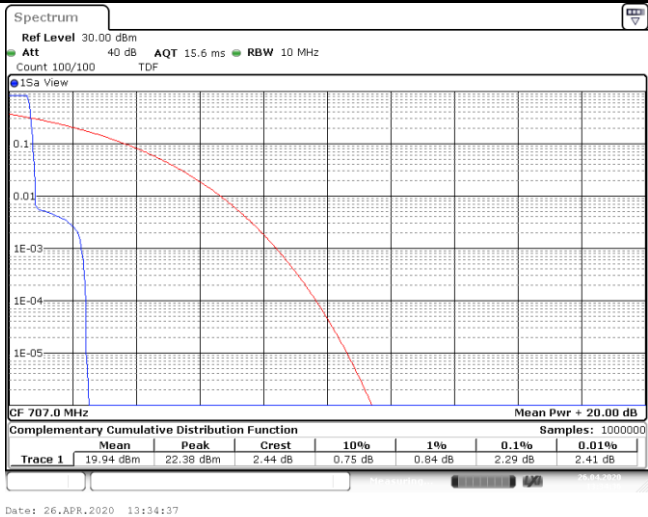
Band85_Stand-Alone_NaN_QPSK_134092_1@0_3.75kHz_7.54_<=13_PASS__



Band85_Stand-Alone_NaN_BPSK_134092_1@47_3.75kHz_1.97_<=13_PASS__



Band85_Stand-Alone_NaN_BPSK_134092_1@0_3.75kHz_2.29_<=13_PASS__

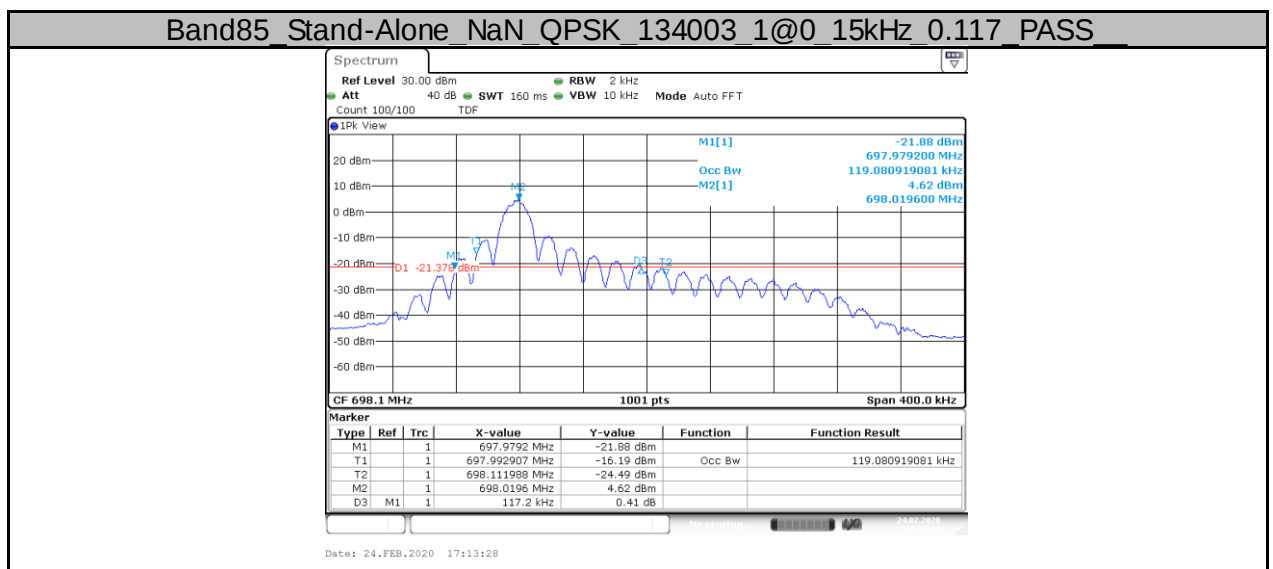


Appendix K.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

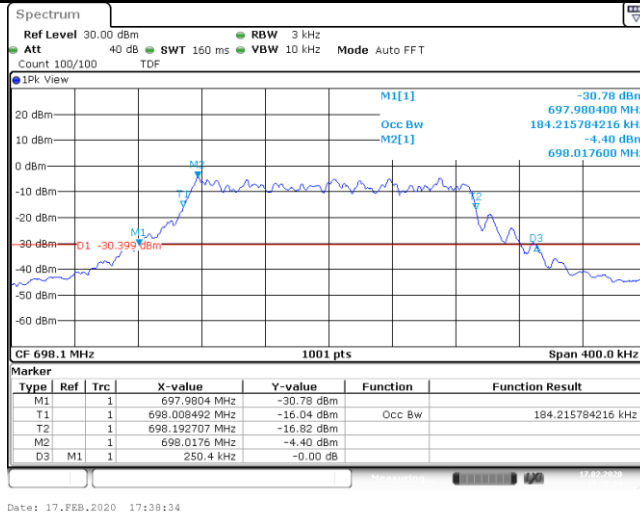
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	1@0	15kHz	0.117	0.119	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	0.250	0.184	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	0.117	0.119	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	15kHz	0.117	0.120	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	0.106	0.127	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	0.106	0.123	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	0.106	0.128	PASS
Band85	Stand-Alone	NaN	QPSK	134092	12@0	15kHz	0.248	0.184	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	0.248	0.184	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	0.038	0.052	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	0.034	0.052	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	3.75kHz	0.034	0.055	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	3.75kHz	0.034	0.055	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	0.038	0.050	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	3.75kHz	0.032	0.054	PASS

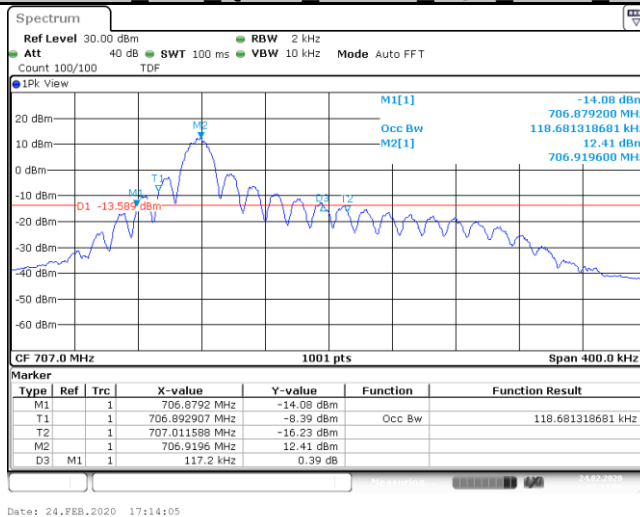
Test Graphs



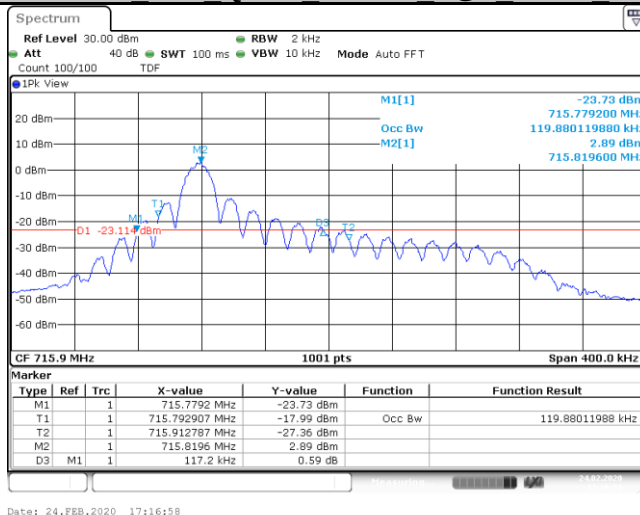
Band85 Stand-Alone NaN QPSK 134003 12@0 15kHz 0.250 PASS



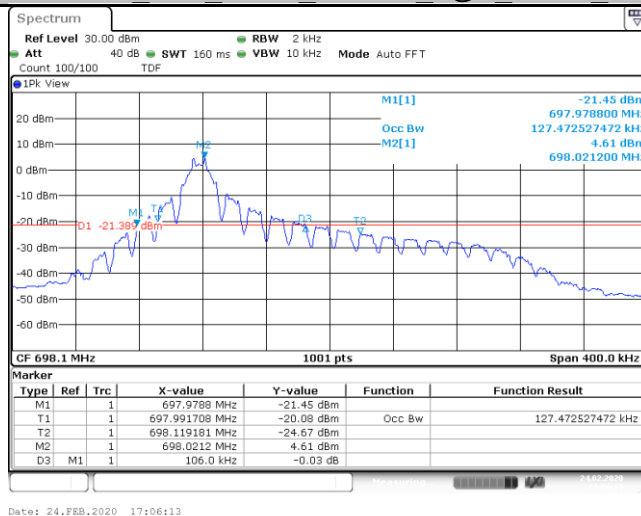
Band85 Stand-Alone NaN QPSK 134092 1@0 15kHz 0.117 PASS



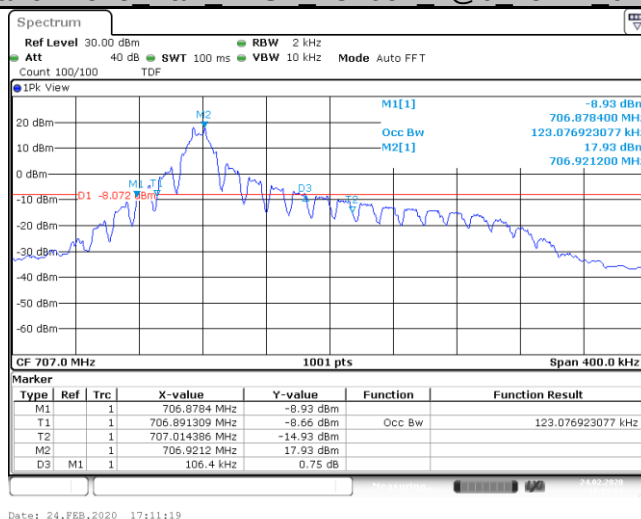
Band85 Stand-Alone NaN QPSK 134181 1@0 15kHz 0.117 PASS



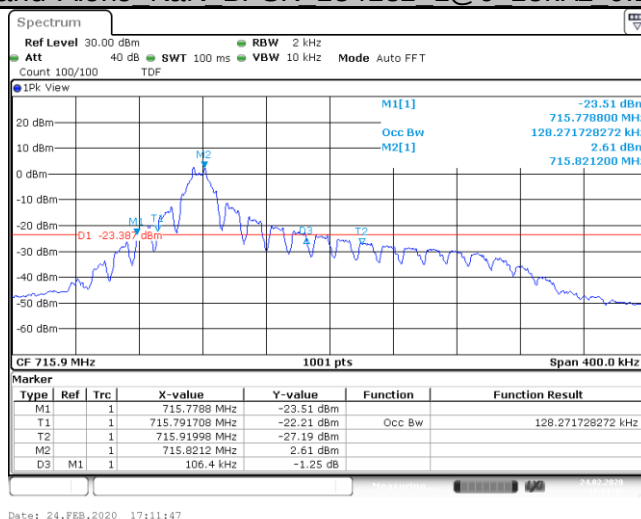
Band85 Stand-Alone NaN BPSK 134003 1@0 15kHz 0.106 PASS



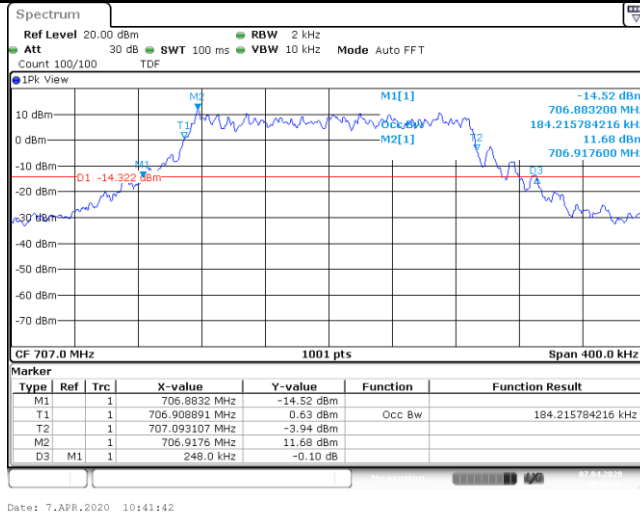
Band85 Stand-Alone NaN BPSK 134092 1@0 15kHz 0.106 PASS



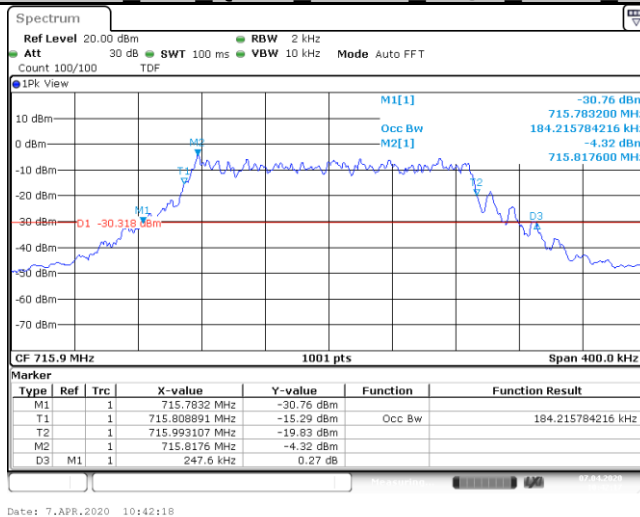
Band85 Stand-Alone NaN BPSK 134181 1@0 15kHz 0.106 PASS



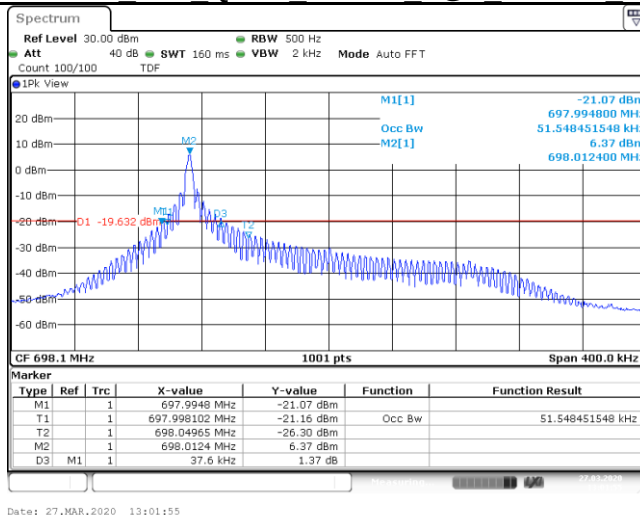
Band85 Stand-Alone NaN QPSK 134092 12@0 15kHz 0.248 PASS



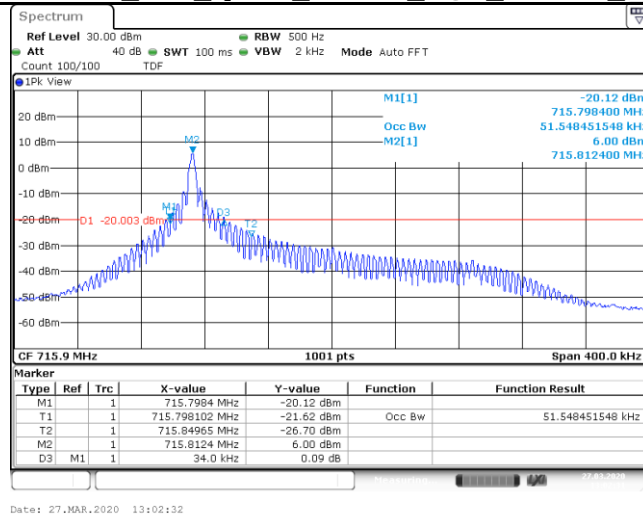
Band85 Stand-Alone NaN QPSK 134181 12@0 15kHz 0.248 PASS



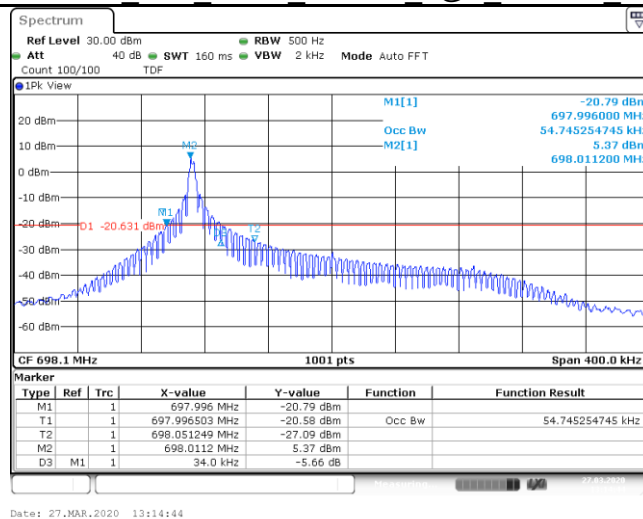
Band85 Stand-Alone NaN QPSK 134003 1@0 3.75kHz 0.038 PASS



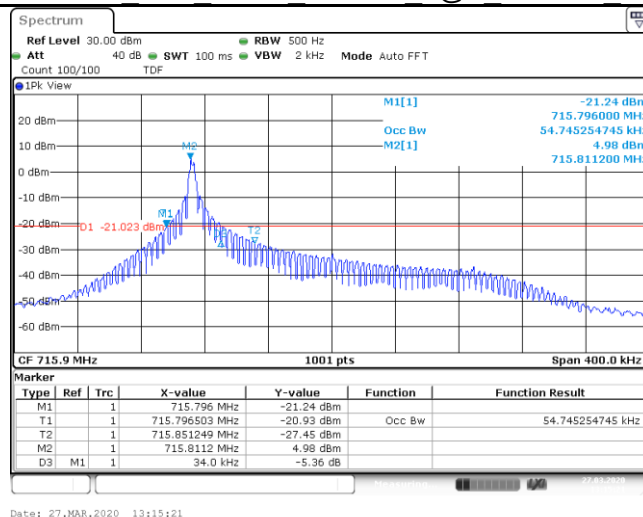
Band85 Stand-Alone NaN QPSK 134181 1@0 3.75kHz 0.034 PASS



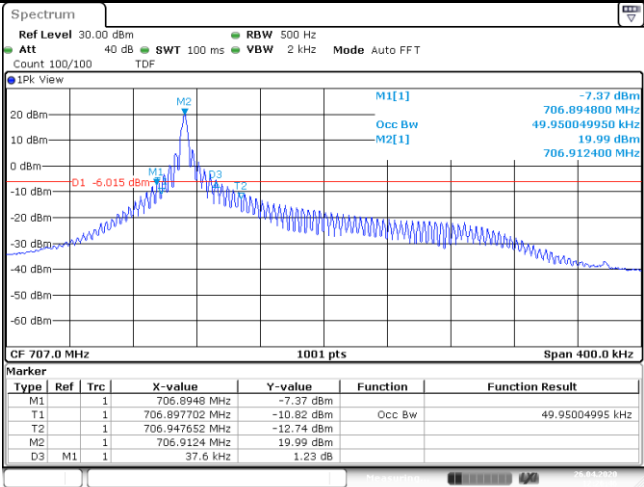
Band85 Stand-Alone NaN BPSK 134003 1@0 3.75kHz 0.034 PASS



Band85 Stand-Alone NaN BPSK 134181 1@0 3.75kHz 0.034 PASS

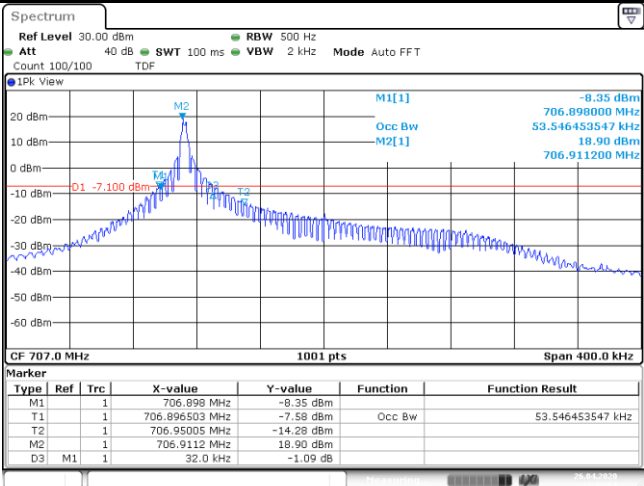


Band85 Stand-Alone NaN QPSK 134092_1@0 3.75kHz 0.038 PASS



Date: 26.APR.2020 12:26:46

Band85 Stand-Alone NaN BPSK 134092_1@0 3.75kHz 0.032 PASS



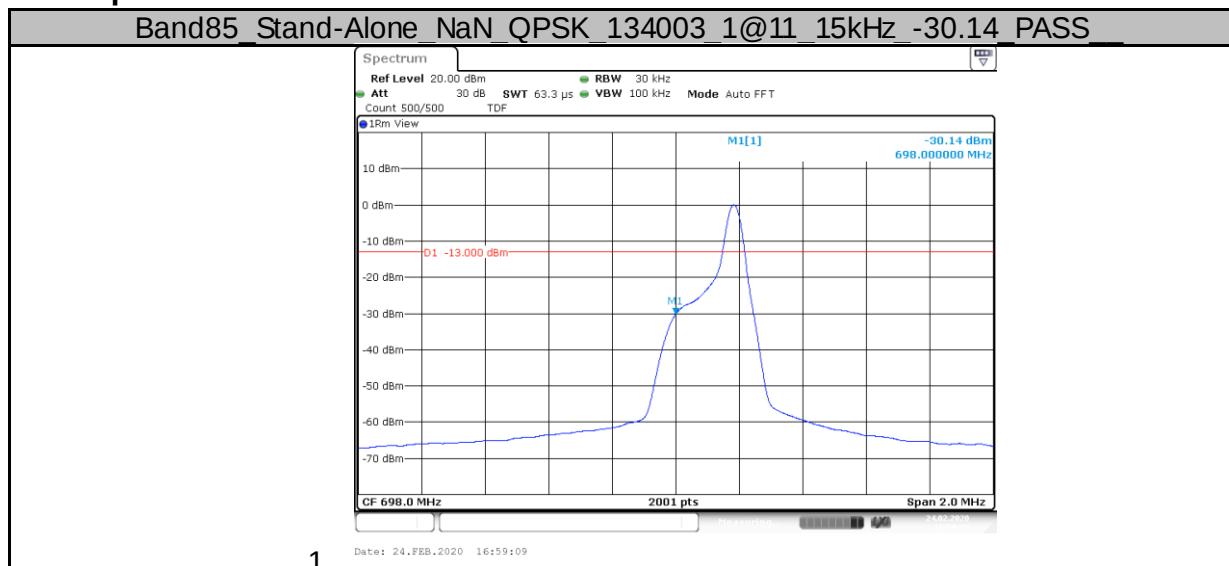
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Appendix K.4: Band Edge for NB

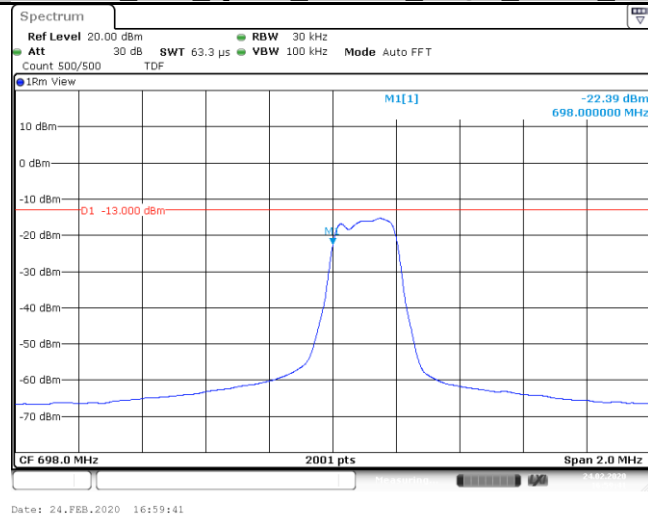
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	1@11	15kHz	-30.14	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	-22.39	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	15kHz	-16.19	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	15kHz	-32.30	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	-23.39	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@11	15kHz	-16.05	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	-28.55	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	-14.52	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	-14.32	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	-30.76	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	-32.14	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	-17.45	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	-17.18	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	-32.67	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@47	3.75kHz	-30.82	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	3.75kHz	-16.13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@47	3.75kHz	-16.11	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	3.75kHz	-31.47	PASS

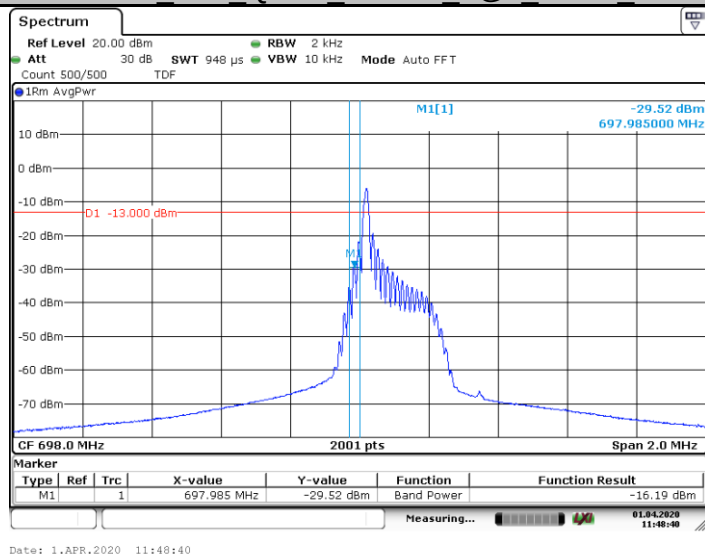
Test Graphs



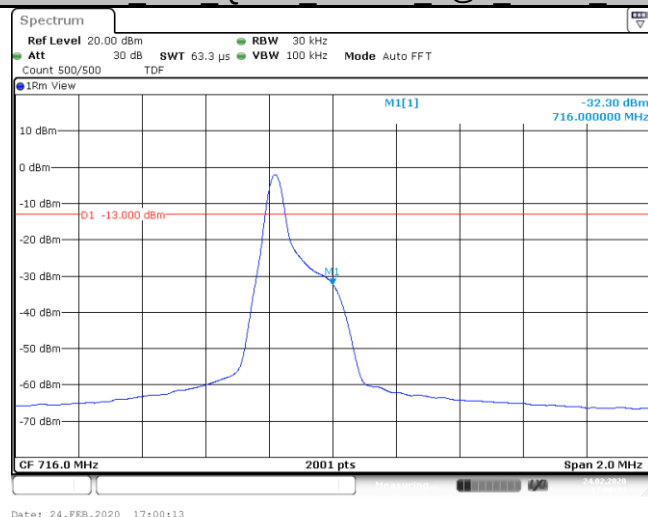
Band85 Stand-Alone NaN QPSK 134003 12@0 15kHz -22.39 PASS



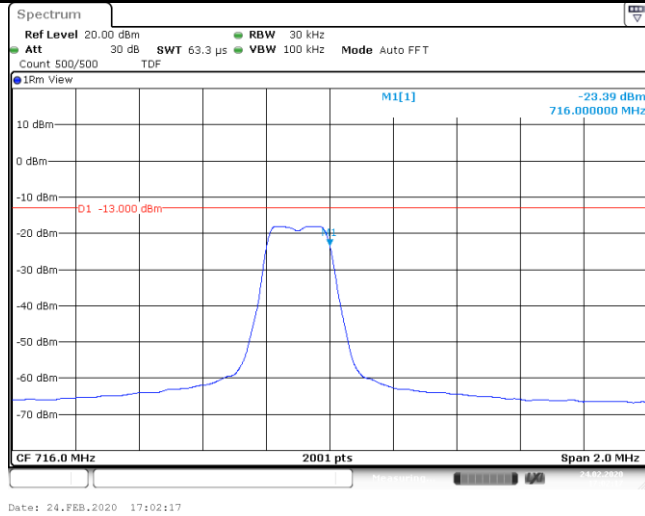
Band85 Stand-Alone NaN QPSK 134003 1@0 15kHz -16.19 PASS



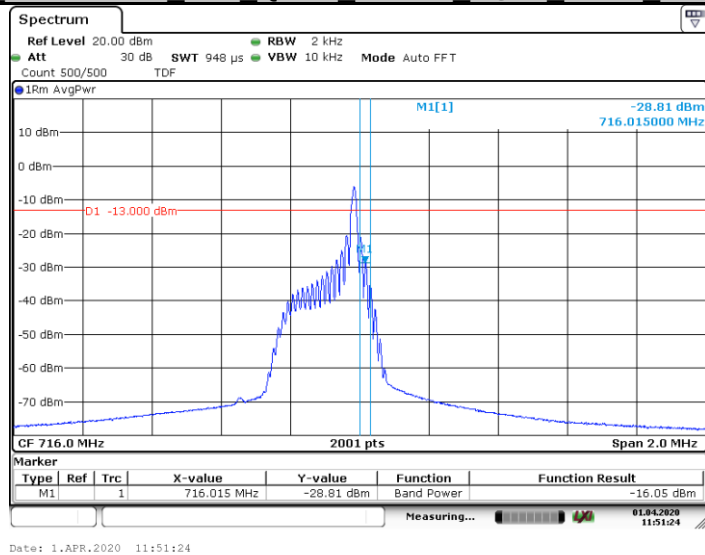
Band85 Stand-Alone NaN QPSK 134181 1@0 15kHz -32.30 PASS



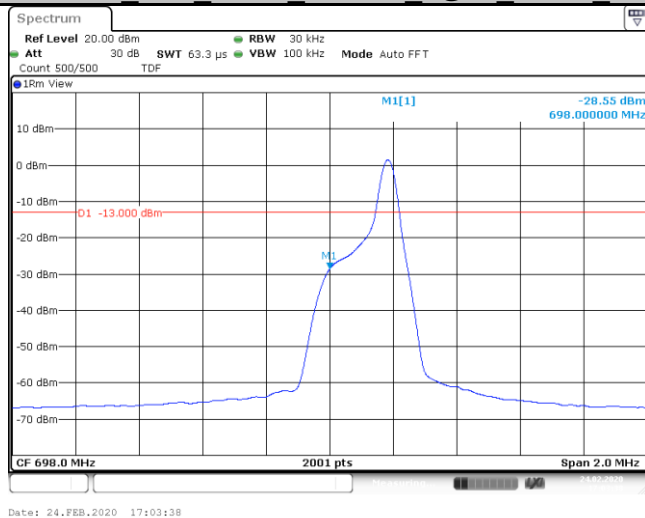
Band85 Stand-Alone NaN QPSK 134181 12@0 15kHz -23.39 PASS



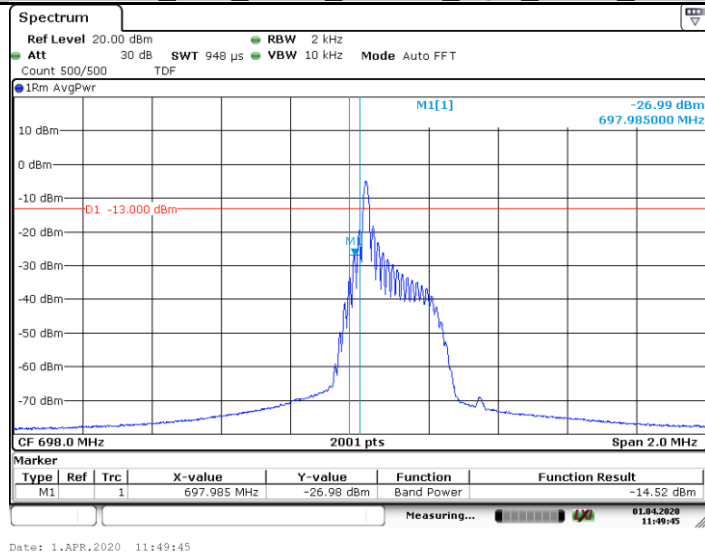
Band85 Stand-Alone NaN QPSK 134181 1@11 15kHz -16.05 PASS



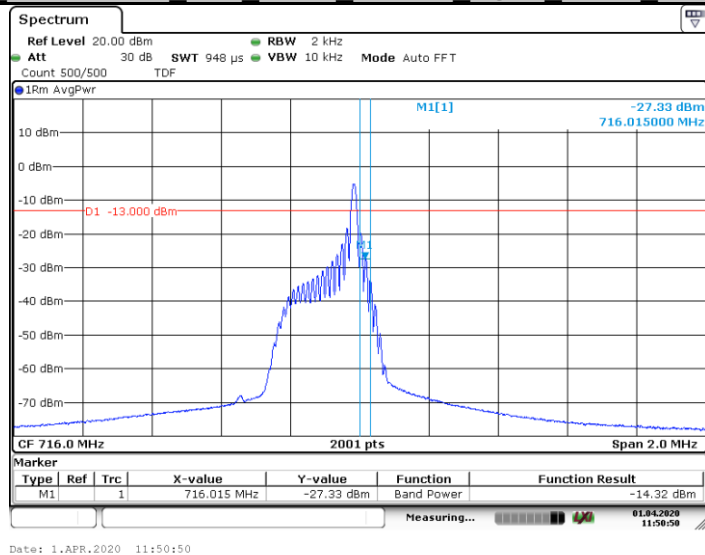
Band85 Stand-Alone NaN BPSK 134003 1@11 15kHz -28.55 PASS



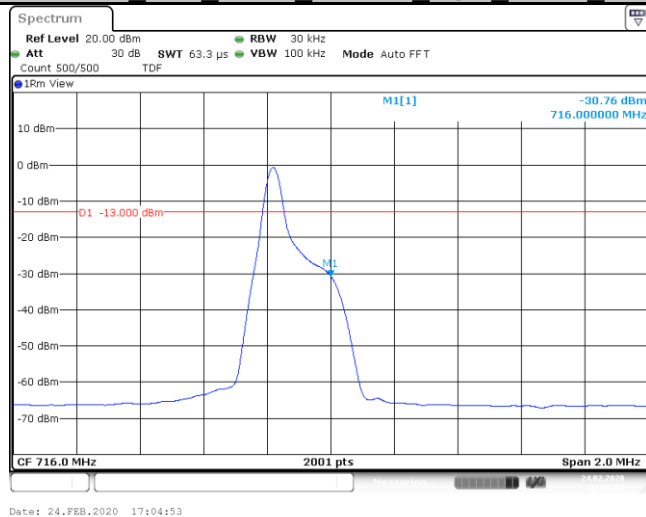
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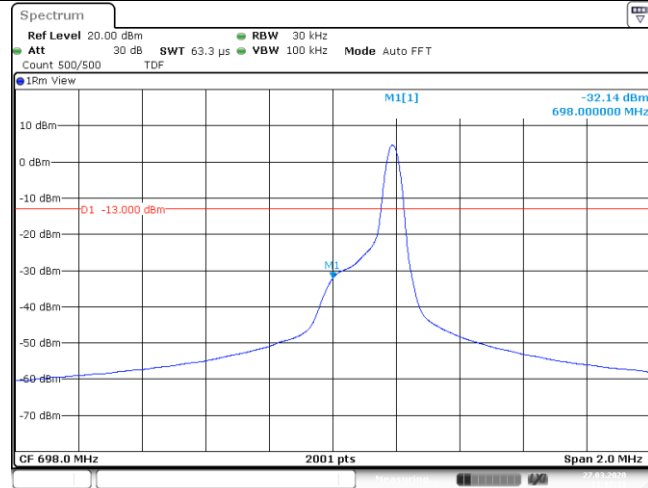
Band85 Stand-Alone NaN BPSK 134181 1@11 15kHz -14.32 PASS



Band85 Stand-Alone NaN BPSK 134181 1@0 15kHz -30.76 PASS

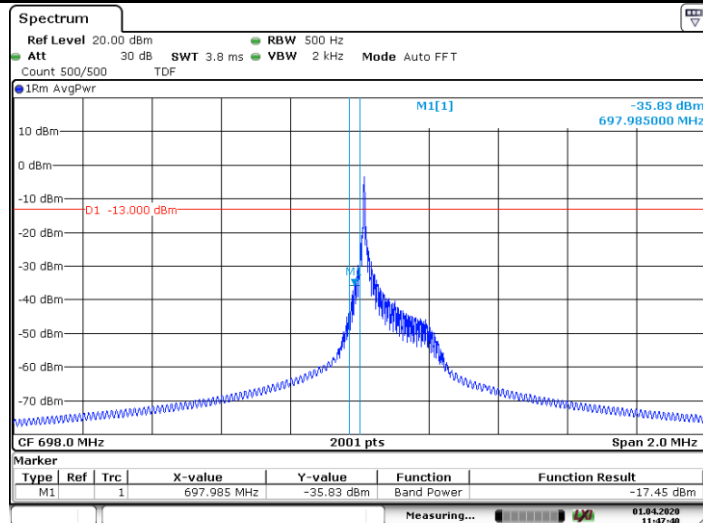


Band85 Stand-Alone NaN QPSK 134003 1@47 3.75kHz -32.14 PASS



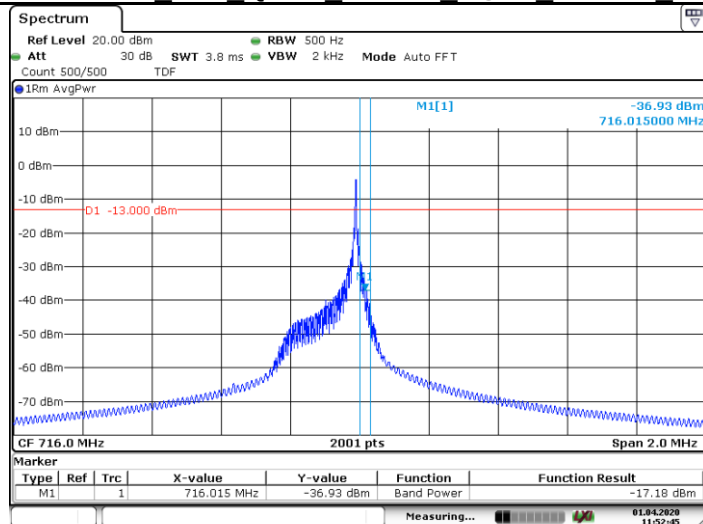
Date: 27.MAR.2020 11:17:31

Band85 Stand-Alone NaN QPSK 134003 1@0 3.75kHz -17.45 PASS



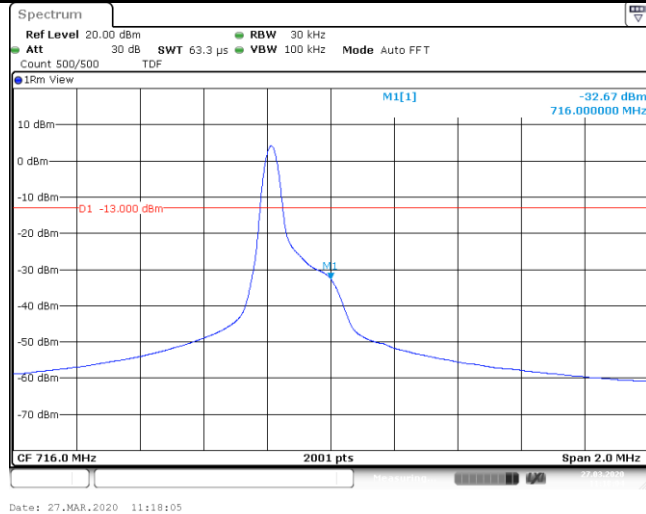
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Band85 Stand-Alone NaN QPSK 134181 1@47 3.75kHz -17.18 PASS

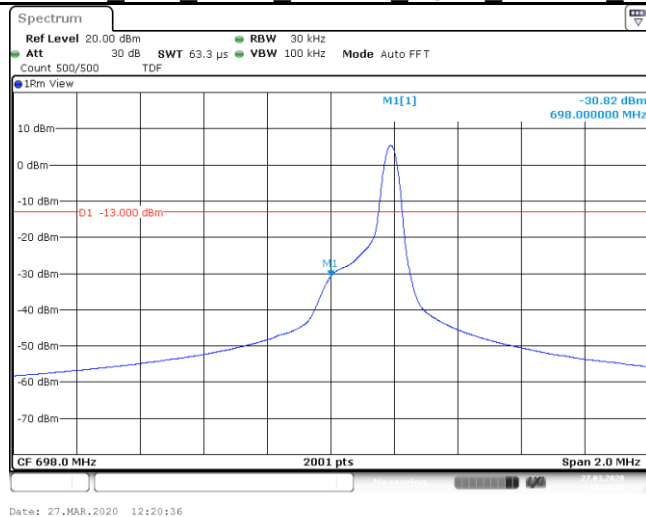


Date: 1.APR.2020 11:52:45

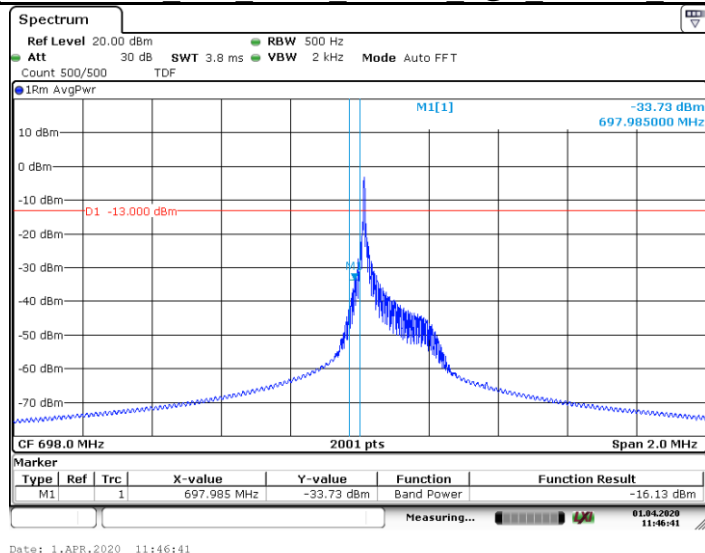
Band85 Stand-Alone NaN QPSK 134181 1@0 3.75kHz -32.67 PASS



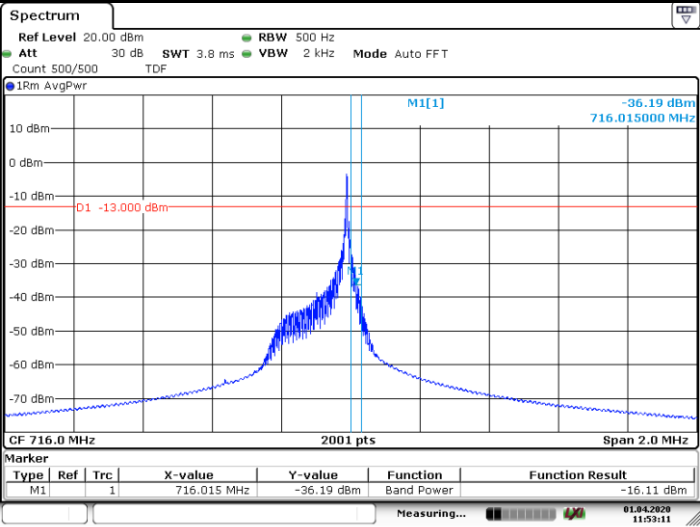
Band85 Stand-Alone NaN BPSK 134003 1@47 3.75kHz -30.82 PASS



Band85 Stand-Alone NaN BPSK 134003 1@0 3.75kHz -16.13 PASS

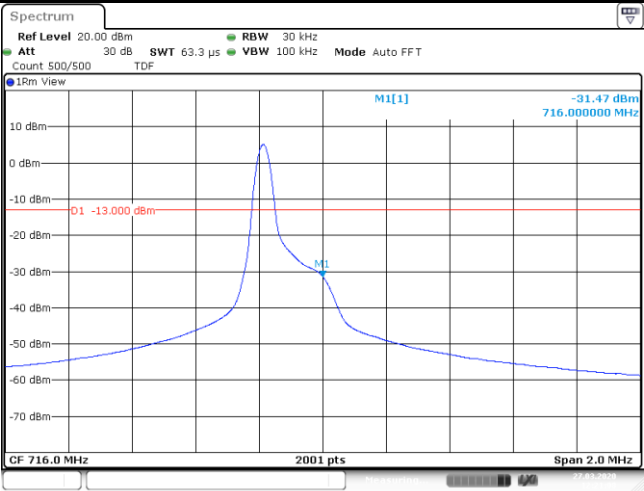


Band85 Stand-Alone NaN BPSK 134181 1@47 3.75kHz -16.11 PASS



Date: 1.APR.2020 11:53:12

Band85 Stand-Alone NaN BPSK 134181 1@0 3.75kHz -31.47 PASS



Date: 27.MAR.2020 12:21:08

Appendix K.5: Conducted Spurious Emission for NB

Test Result

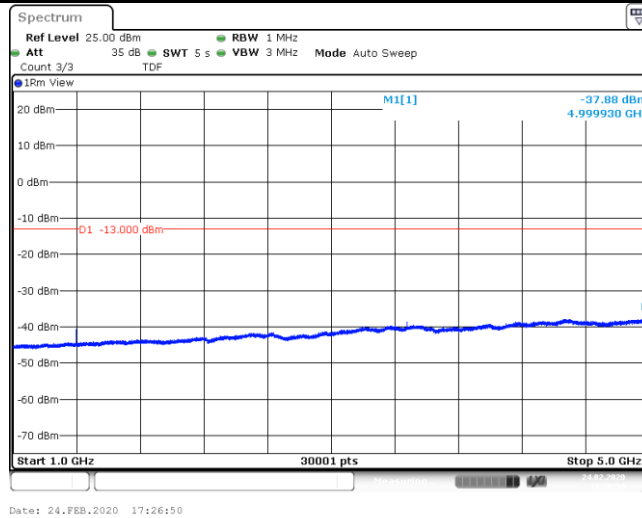
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	1000	5000	1000~5000MHz@-37.88dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	5000	12000	5000~12000MHz@-47.61dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	12000	26500	12000~26500MHz@-41.29dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	30	1000	30~1000MHz@-35.5dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	12@0	15kHz	30	1000	30~1000MHz@-35.97dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	12@0	15kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	12@0	15kHz	5000	12000	5000~12000MHz@-47.44dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	12@0	15kHz	12000	26500	12000~26500MHz@-41.29dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	30	1000	30~1000MHz@-35.49dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	12000	26500	12000~26500MHz@-41.25dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	1000	5000	1000~5000MHz@-37.71dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	12@0	15kHz	5000	12000	5000~12000MHz@-47.43dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	1000	5000	1000~5000MHz@-37.65dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	30	1000	30~1000MHz@-35.65dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	1000	5000	1000~5000MHz@-37.84dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	5000	12000	5000~12000MHz@-47.4dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@0	15kHz	12000	26500	12000~26500MHz@-41.37dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	5000	12000	5000~12000MHz@-47.34dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	12000	26500	12000~26500MHz@-41.27dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134003	1@11	15kHz	30	1000	30~1000MHz@-35.37dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	5000	12000	5000~12000MHz@-47.46dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	12000	26500	12000~26500MHz@-41.25dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	1000	5000	1000~5000MHz@-23.99dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@11	15kHz	30	1000	30~1000MHz@-35.71dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	5000	12000	5000~12000MHz@-47.52dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	1000	5000	1000~5000MHz@-31.73dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134092	1@0	15kHz	30	1000	30~1000MHz@-35.76dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	12000	26500	12000~26500MHz@-41.34dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	1000	5000	1000~5000MHz@-37.69dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	5000	12000	5000~12000MHz@-47.43dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	12000	26500	12000~26500MHz@-41.43dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	30	1000	30~1000MHz@-35.25dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	1000	5000	1000~5000MHz@-37.61dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@11	15kHz	5000	12000	5000~12000MHz@-47.41dBm	-13	PASS
Band85	Stand-Alone	NaN	BPSK	134181	1@0	15kHz	30	1000	30~1000MHz@-35.36dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.47dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.86dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.86dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	30	1000	30~1000MHz@-35.72dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.88dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	3.75kHz	30	1000	30~1000MHz@-35.41dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.79dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.51dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.93dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.56dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.51dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	30	1000	30~1000MHz@-35.81dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.75dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	3.75kHz	30	1000	30~1000MHz@-34.39dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.73dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.59dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	30	1000	30~1000MHz@-35.65dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.9dBm	-13	PASS

Produkte
Products

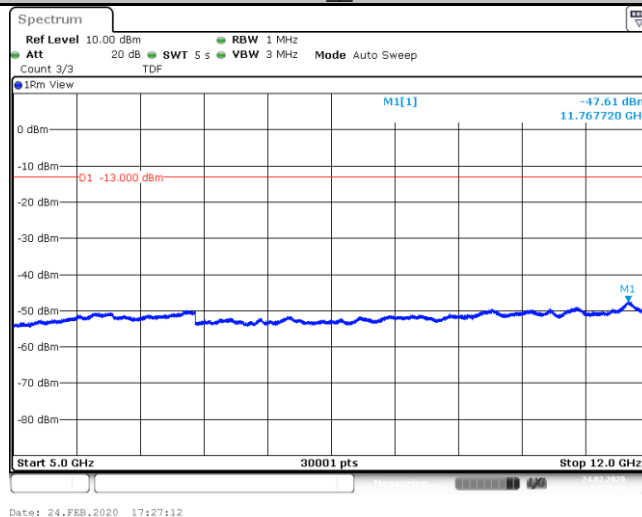
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.7dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	30	1000	30~1000MHz@-35.87dBm	-13	PASS

Test Graphs

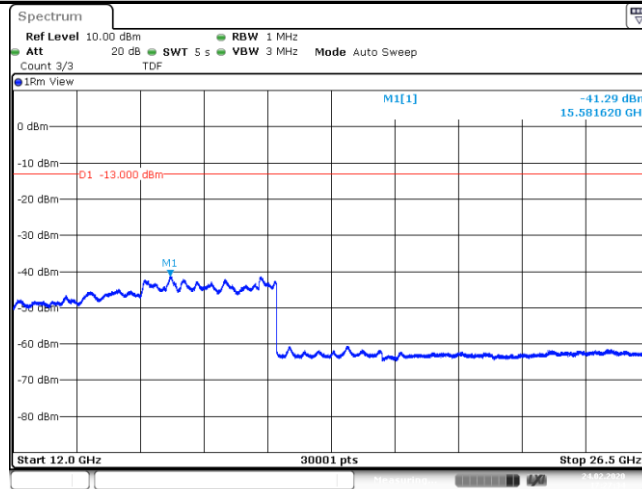
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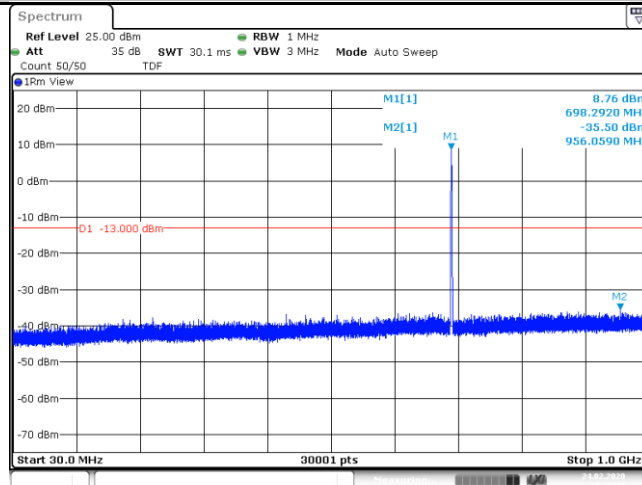


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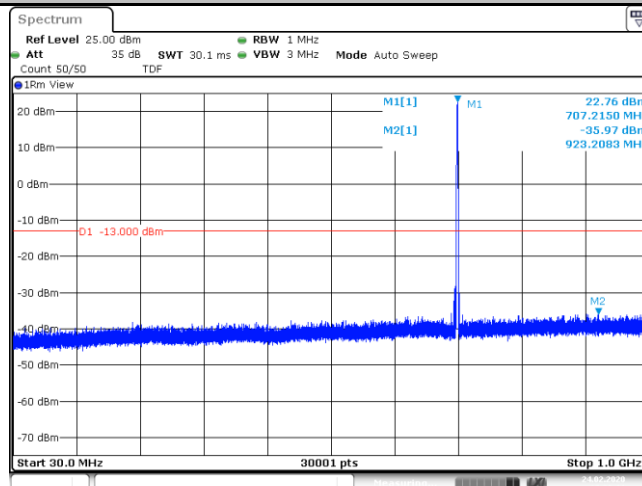
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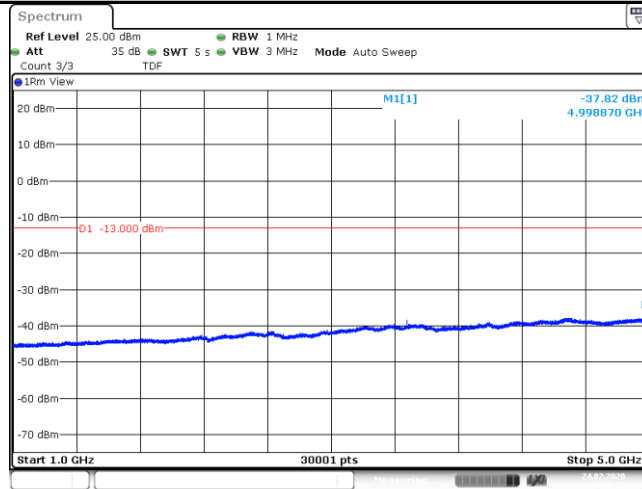
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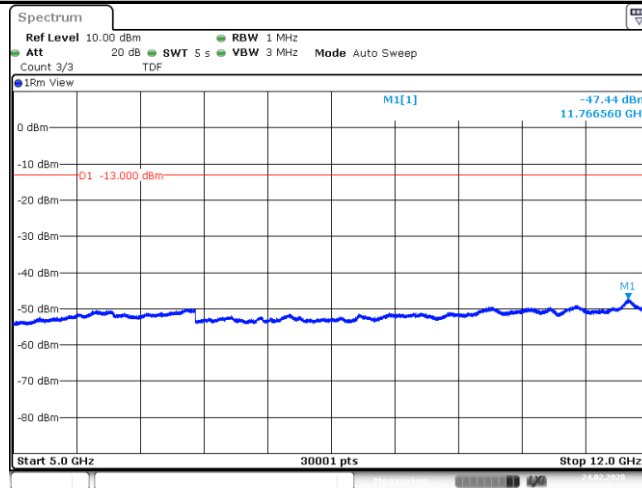
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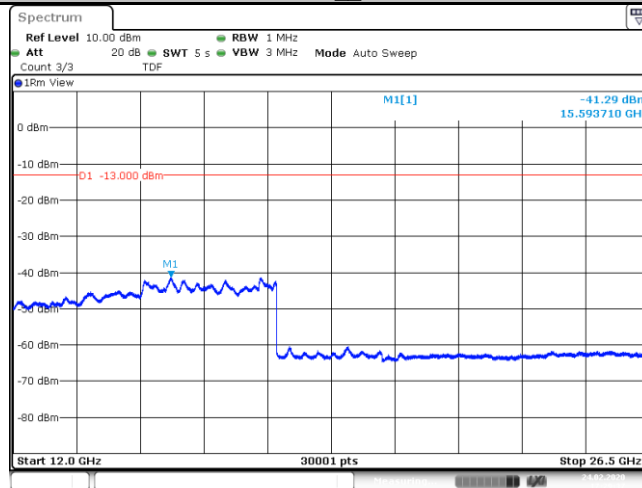
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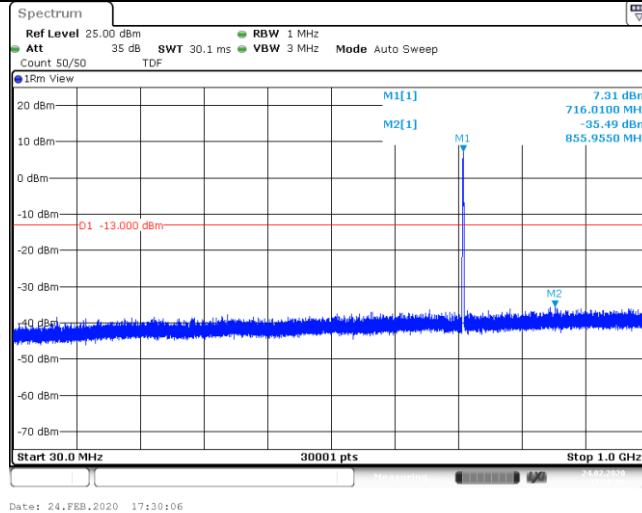
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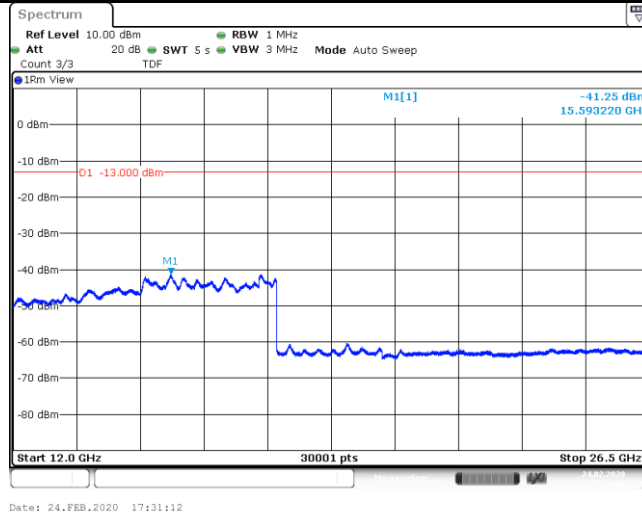


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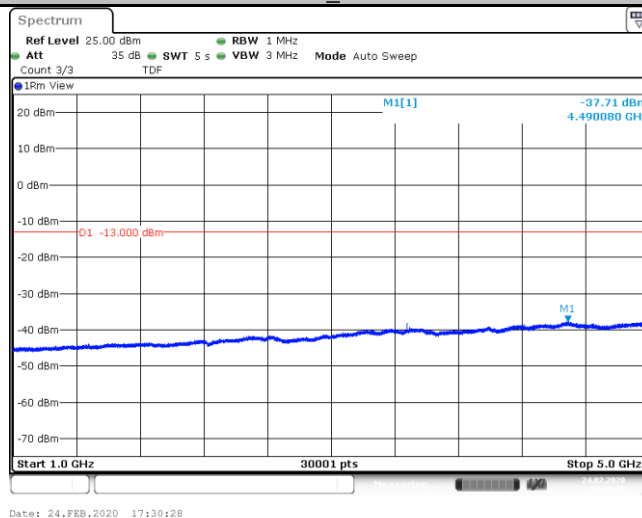
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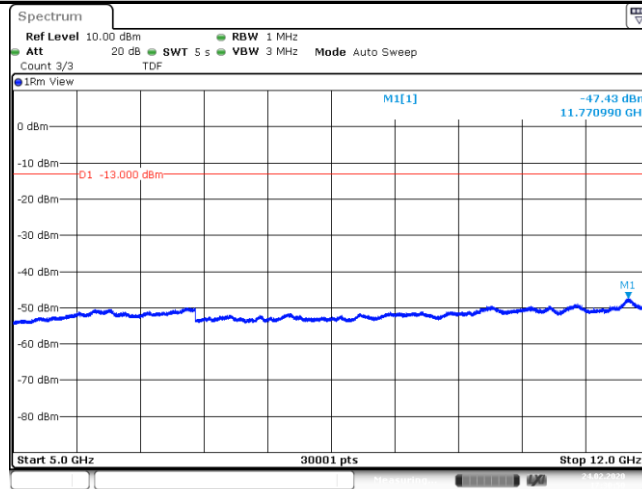
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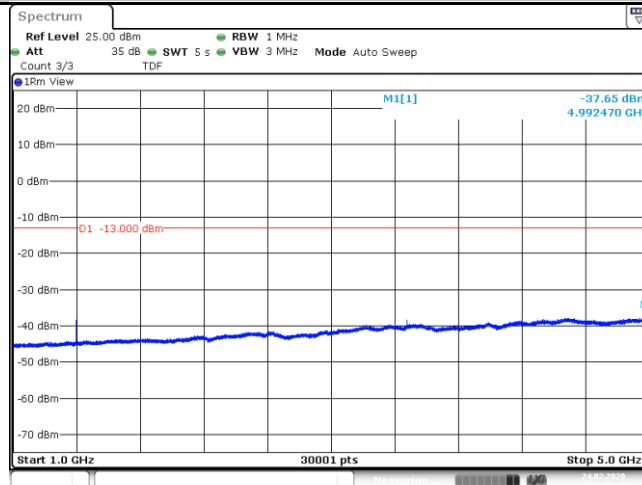


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S



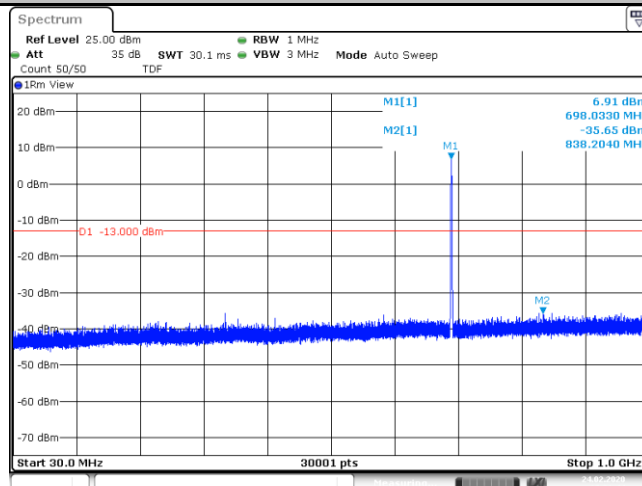
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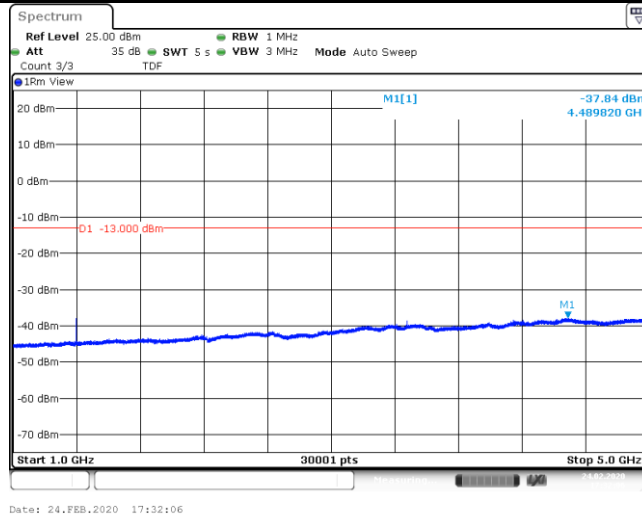
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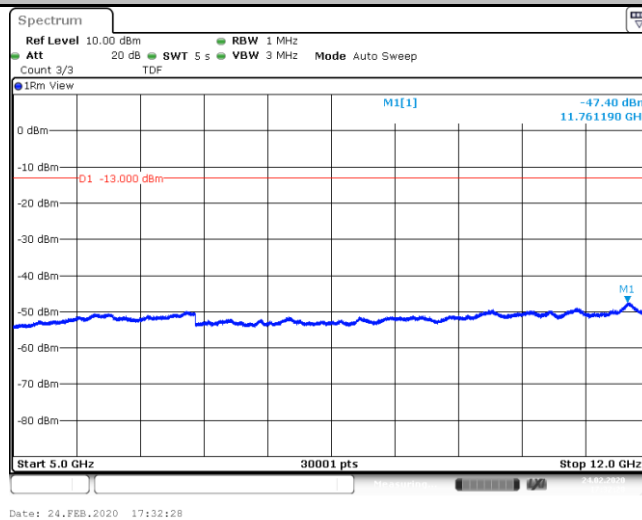


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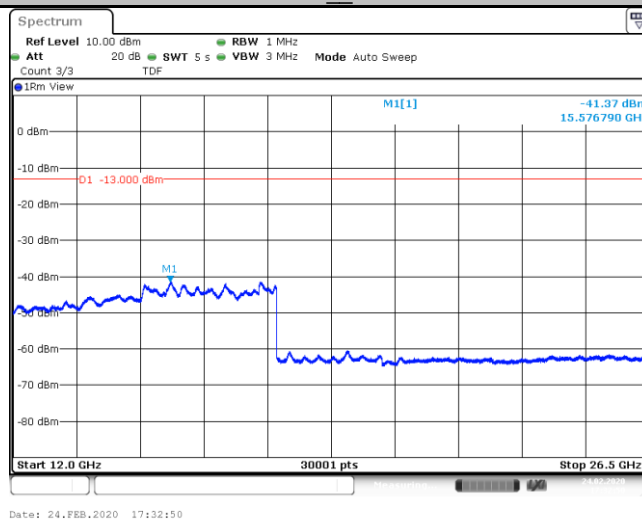
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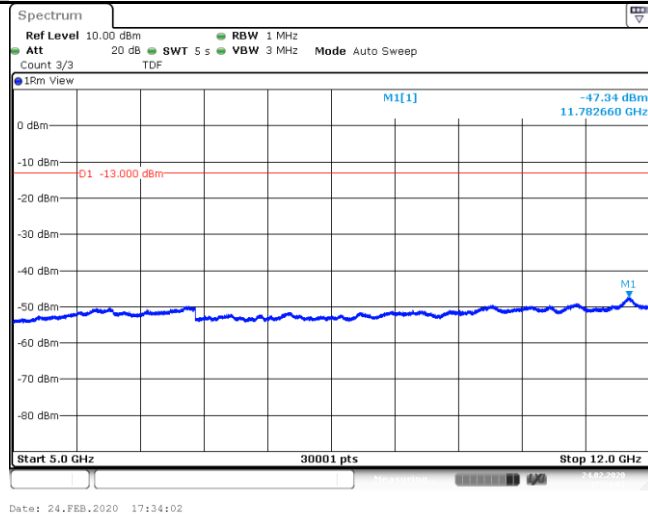
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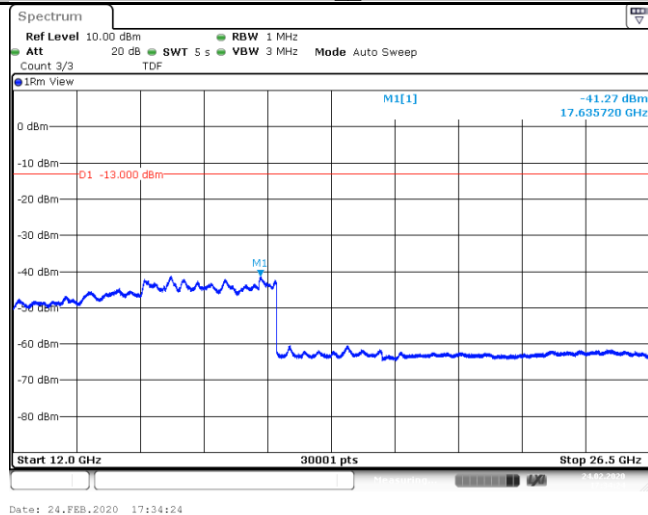
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S



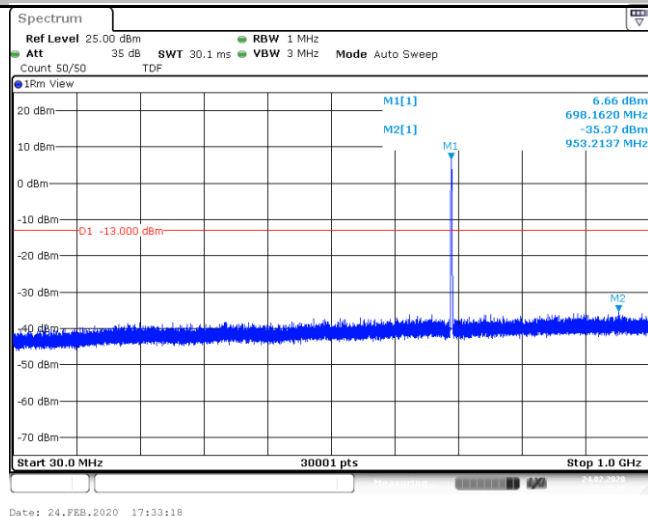
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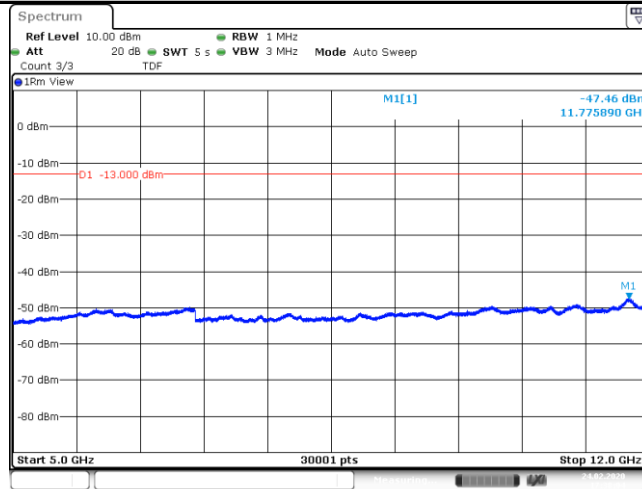
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SS__



Band85_Stand-Alone_NaN_BPSK_134003_1@11_15kHz_30_1000_30~1000MHz@-35.37dBm_-13_PASS__

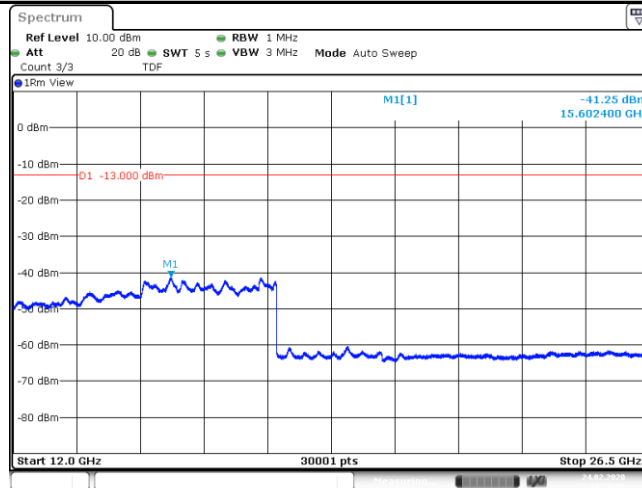


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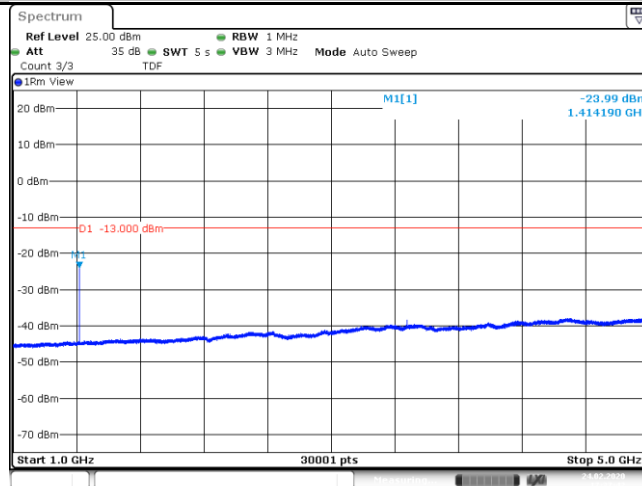
Date: 24.FEB.2020 17:38:04

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SS



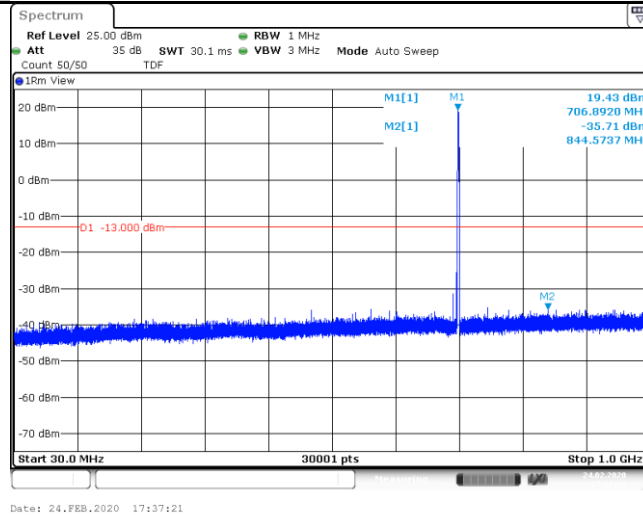
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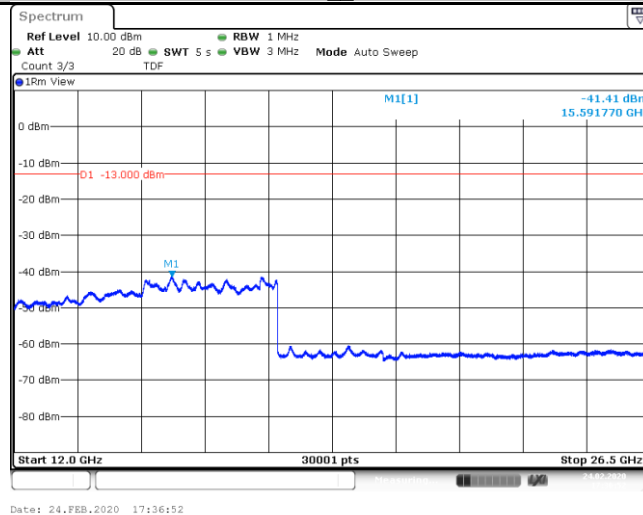


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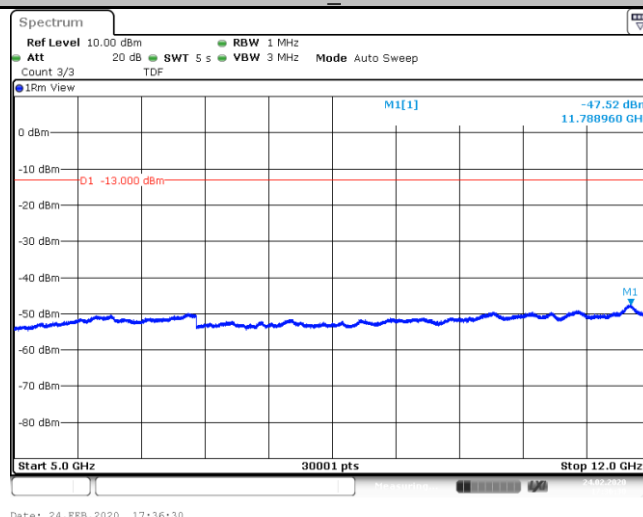
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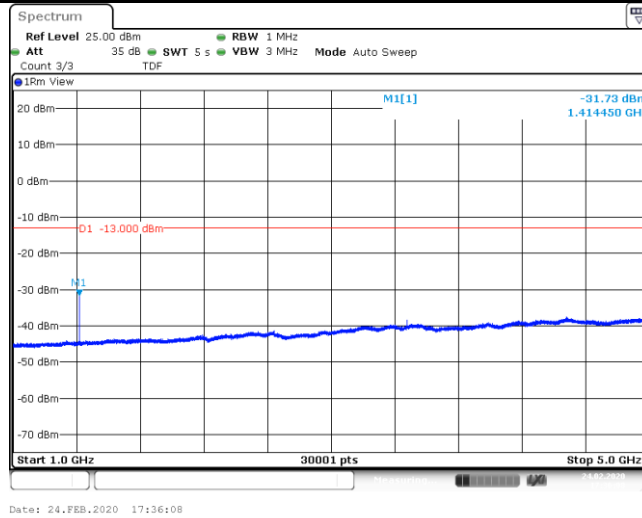
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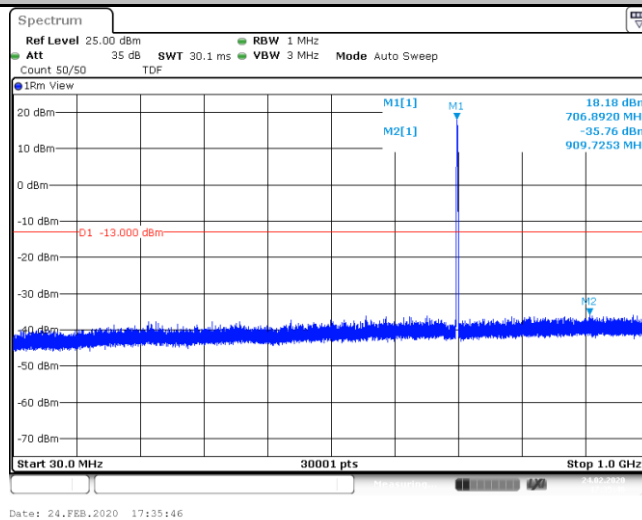
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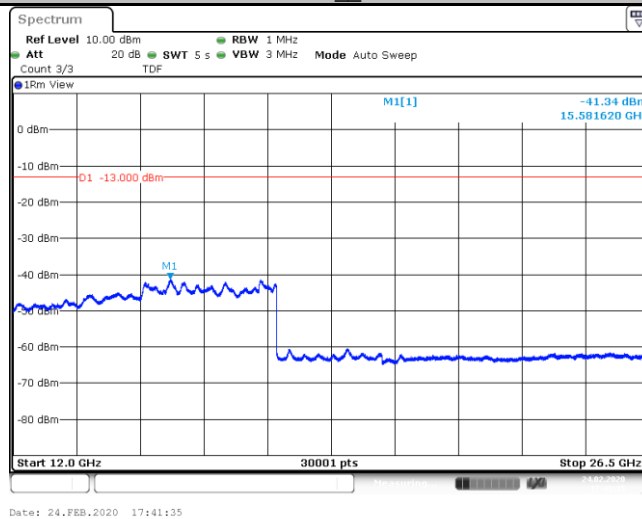
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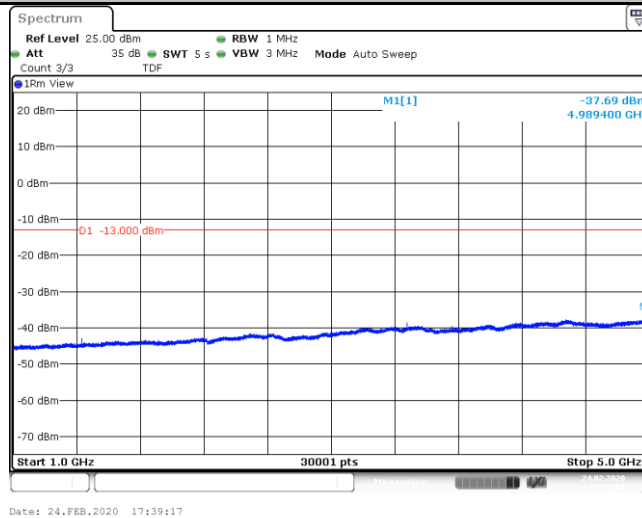
Band85_Stand-Alone_NaN_BPSK_134092_1@0_15kHz_30_1000_30~1000MHz@-35.76dBm_-13_PASS__



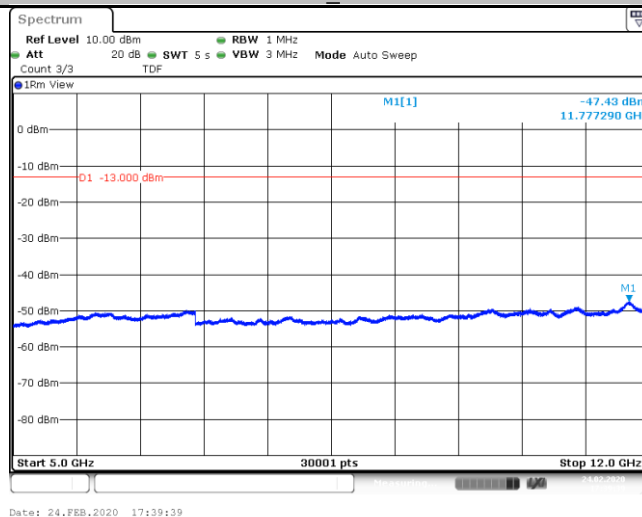
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SS__



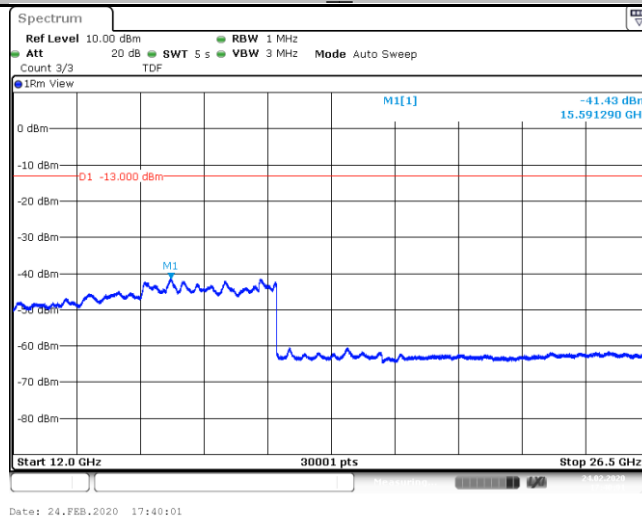
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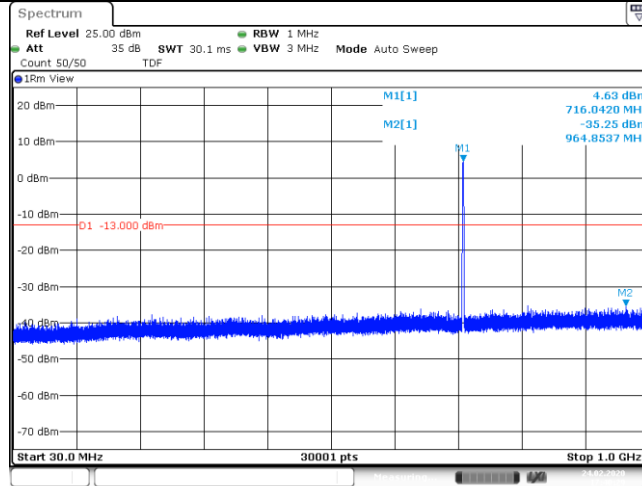
Band85_Stand-Alone_NaN_BPSK_134181_1@0_15kHz_5000_12000_5000~12000MHz@-47.43dBm_-13_PASS__



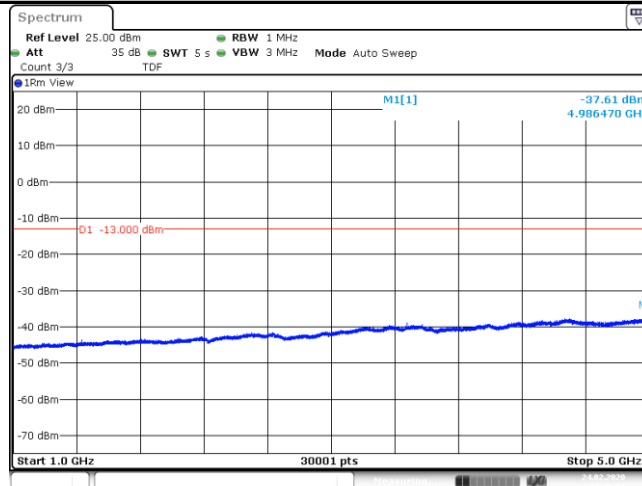
Band85_Stand-Alone_NaN_BPSK_134181_1@0_15kHz_12000_26500_12000~26500MHz@-41.43dBm_-13_PAS
S__



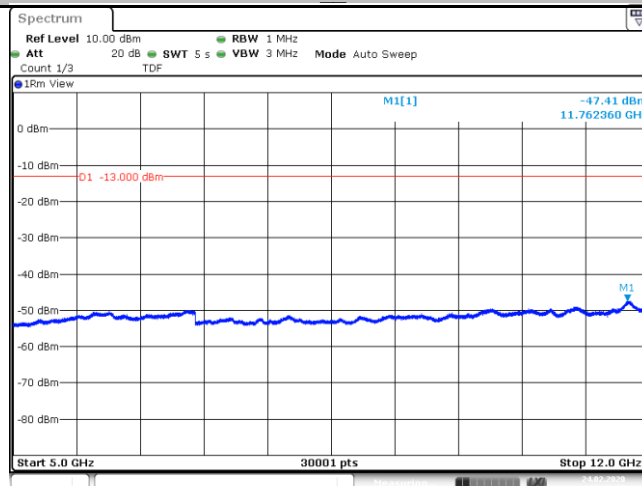
Band85_Stand-Alone_NaN_BPSK_134181_1@11_15kHz_30_1000_30~1000MHz@-35.25dBm_-13_PASS__



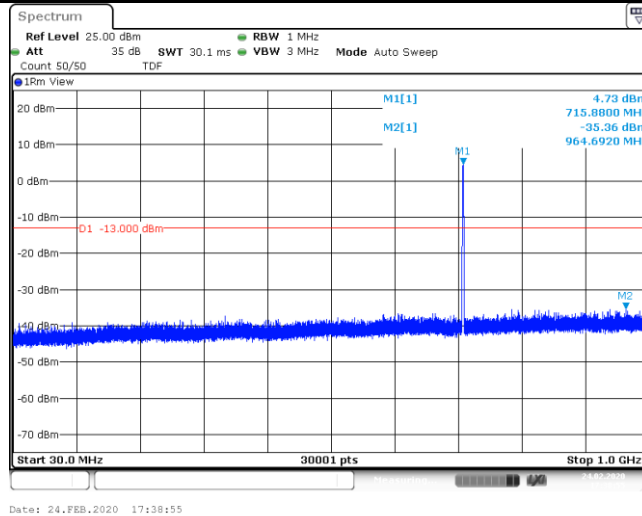
Band85_Stand-Alone_NaN_BPSK_134181_1@11_15kHz_1000_5000_1000~5000MHz@-37.61dBm_-13_PASS__



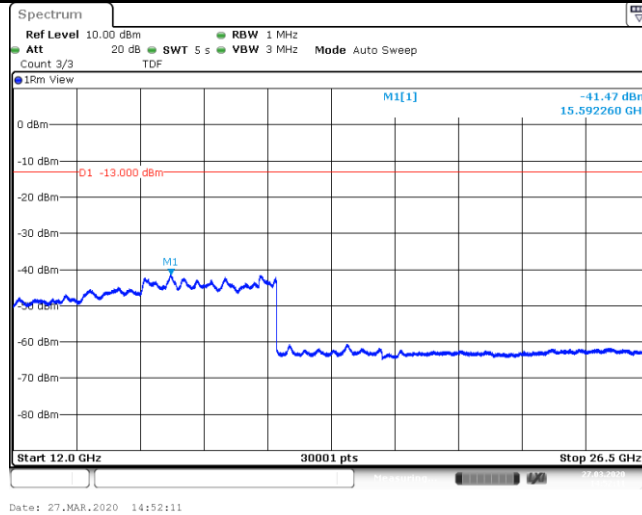
Band85_Stand-Alone_NaN_BPSK_134181_1@11_15kHz_5000_12000_5000~12000MHz@-47.41dBm_-13_PASS



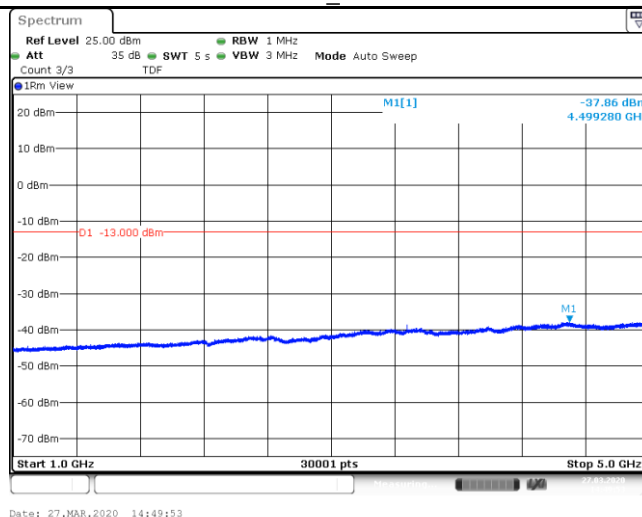
Band85_Stand-Alone_NaN_BPSK_134181_1@0_15kHz_30_1000_30~1000MHz@-35.36dBm_-13_PASS__



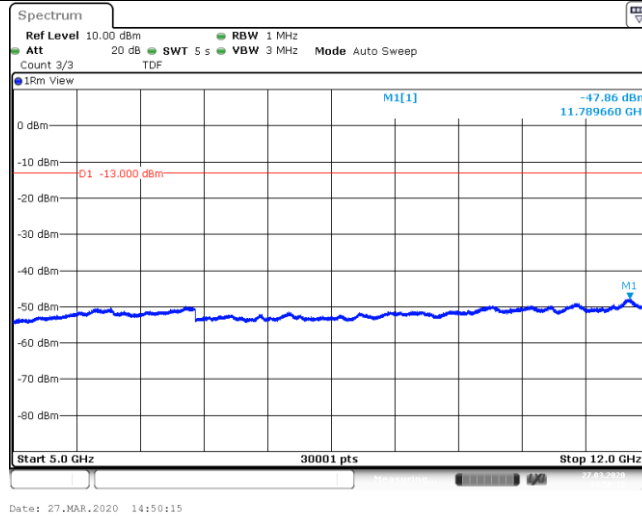
Band85_Stand-Alone_NaN_QPSK_134003_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.47dBm_-13_PASS__



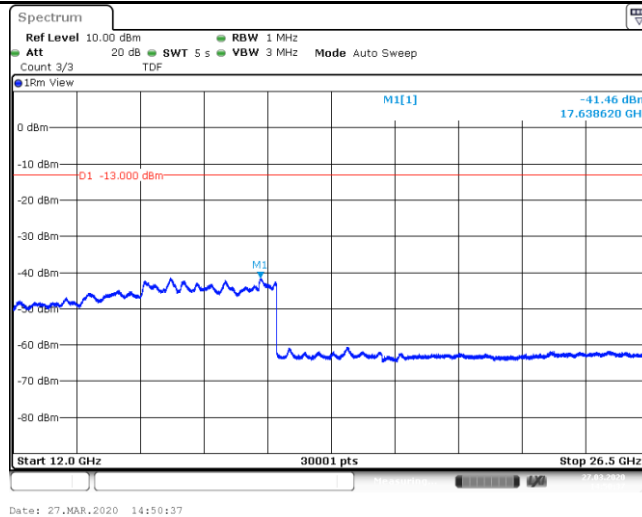
Band85_Stand-Alone_NaN_QPSK_134003_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.86dBm_-13_PASS__



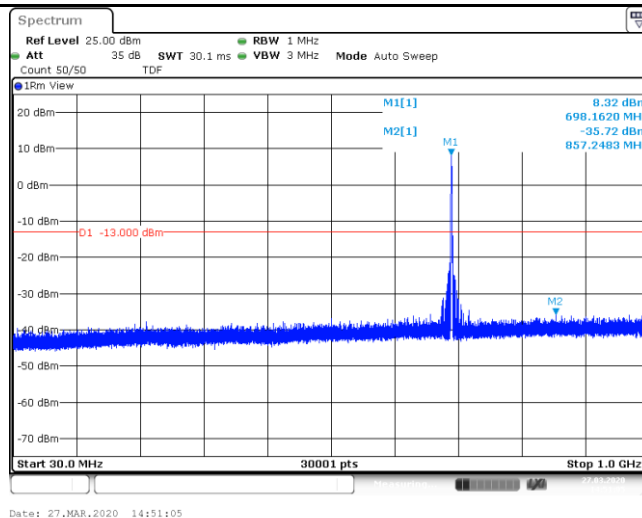
Band85_Stand-Alone_NaN_QPSK_134003_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.86dBm_-13_PAS S



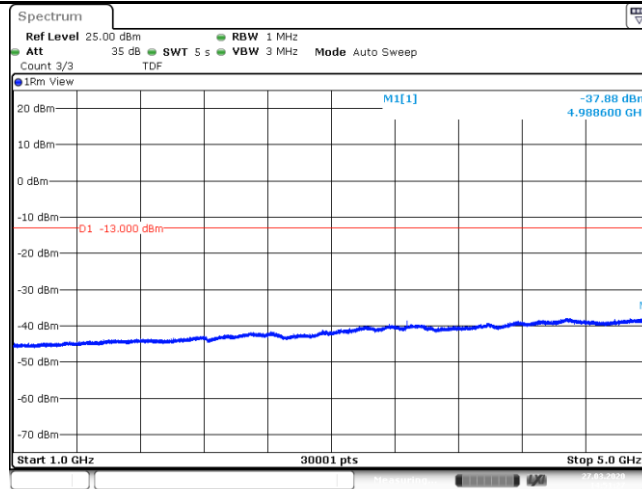
Band85_Stand-Alone_NaN_QPSK_134003_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.46dBm_-13_P ASS



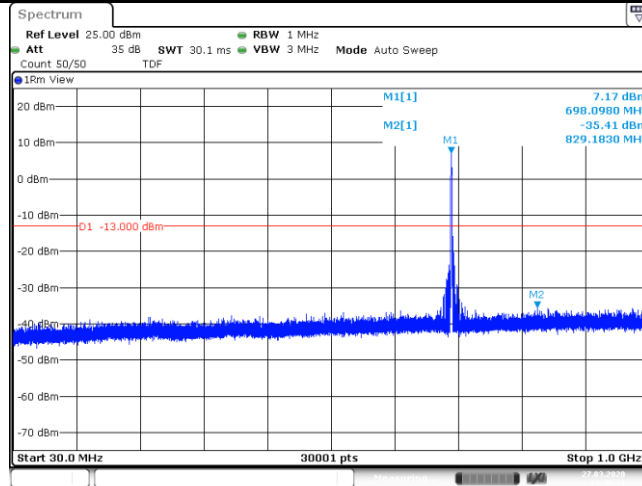
Band85_Stand-Alone_NaN_QPSK_134003_1@47_3.75kHz_30_1000_30~1000MHz@-35.72dBm_-13_PASS



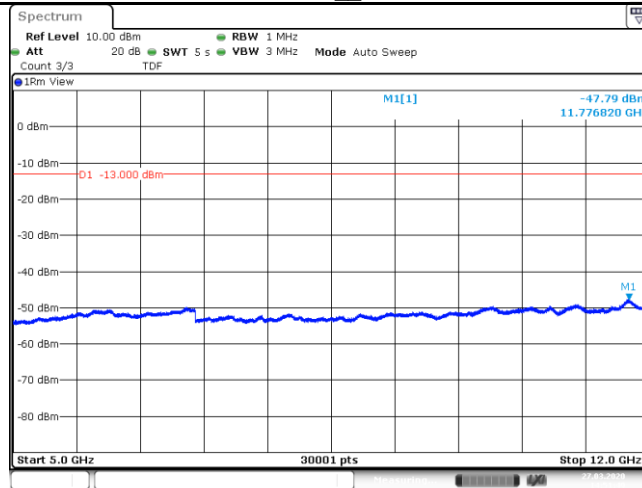
Band85_Stand-Alone_NaN_QPSK_134003_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.88dBm_-13_PASS



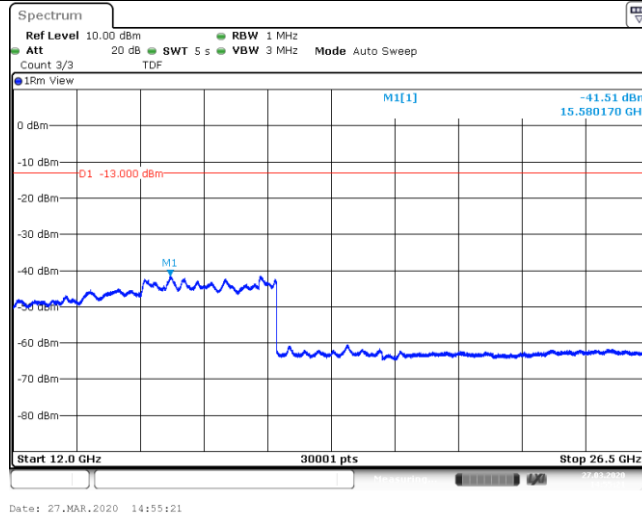
Band85_Stand-Alone_NaN_QPSK_134003_1@0_3.75kHz_30_1000_30~1000MHz@-35.41dBm_-13_PASS__



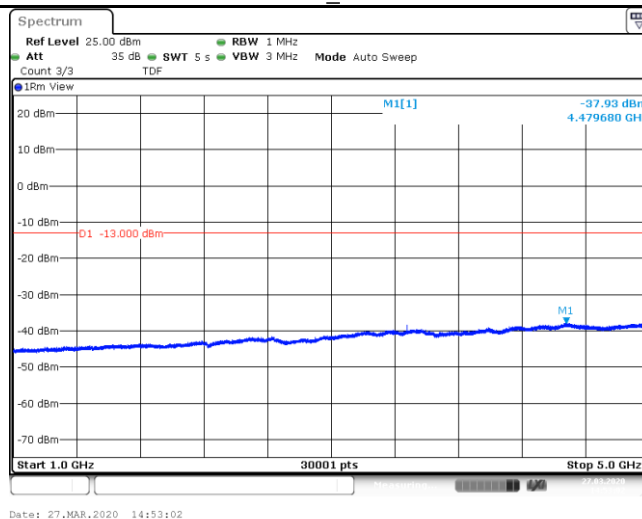
Band85_Stand-Alone_NaN_QPSK_134003_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.79dBm_-13_PASS__



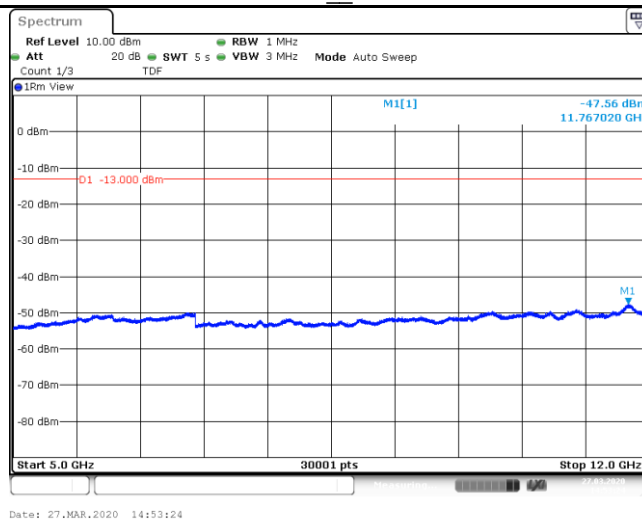
Band85_Stand-Alone_NaN_QPSK_134181_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.51dBm_-13_PASS



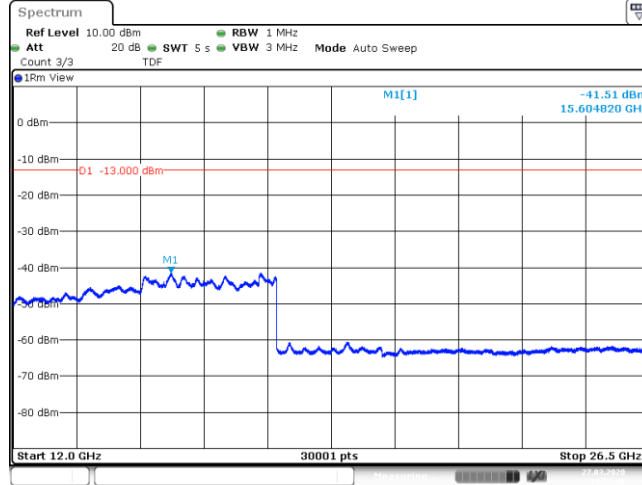
Band85_Stand-Alone_NaN_QPSK_134181_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.93dBm_-13_PASS



Band85_Stand-Alone_NaN_QPSK_134181_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.56dBm_-13_PAS S

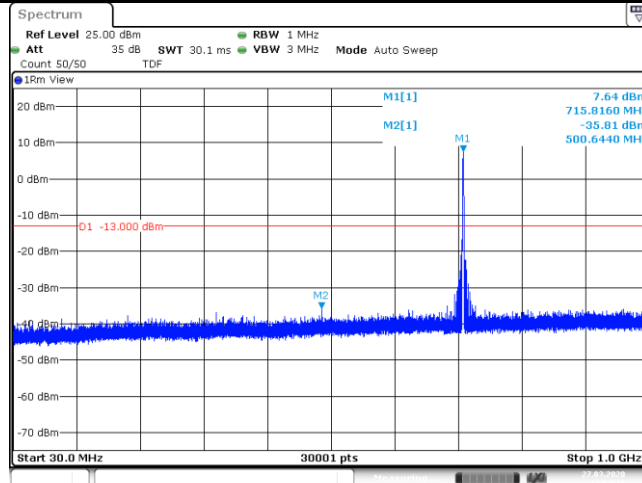


Band85_Stand-Alone_NaN_QPSK_134181_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.51dBm_-13_P ASS__



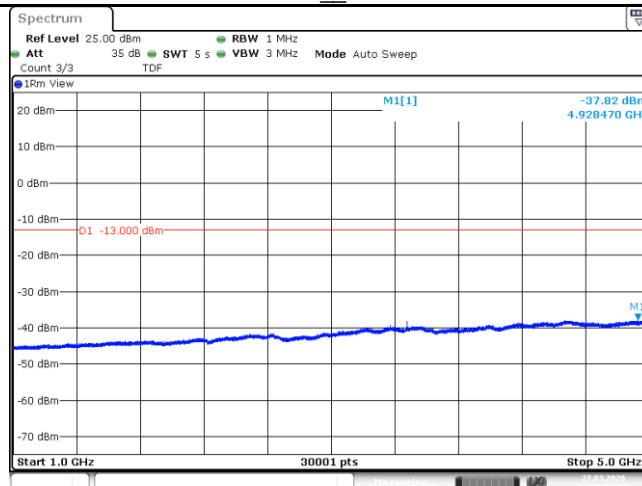
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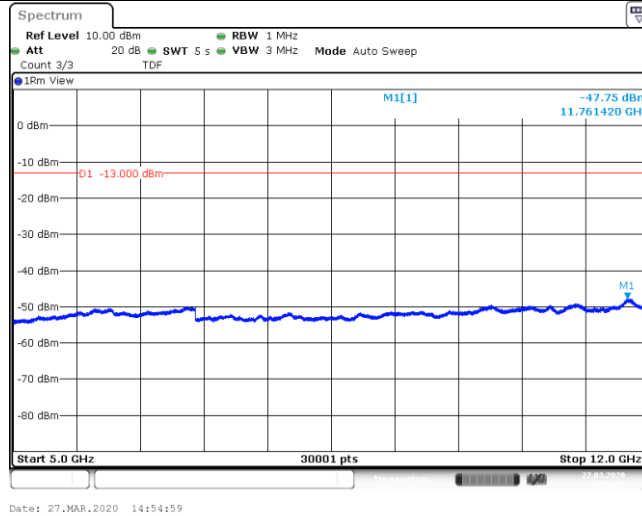
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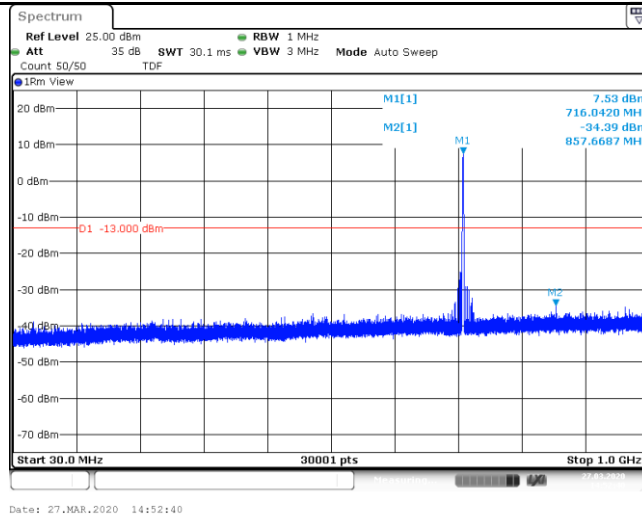


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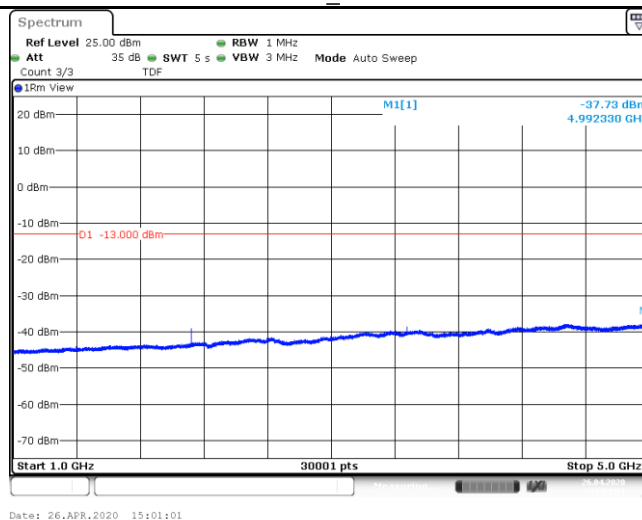
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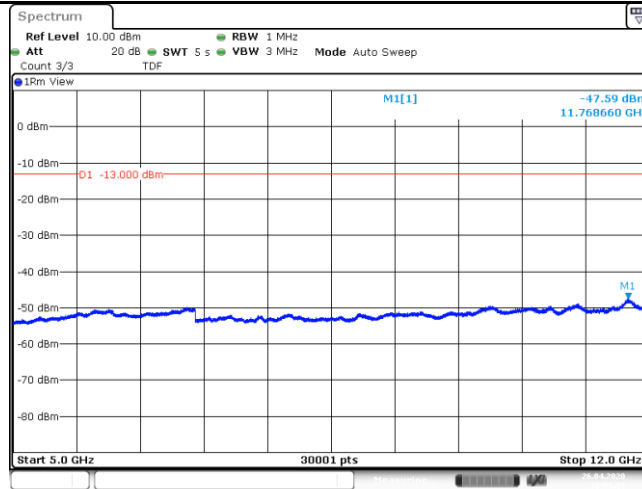
Band85_Stand-Alone_NaN_QPSK_134181_1@0_3.75kHz_30_1000_30~1000MHz@-34.39dBm_-13_PA SS__



Band85_Stand-Alone_NaN_QPSK_134092_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.73dBm_-13_PASS__

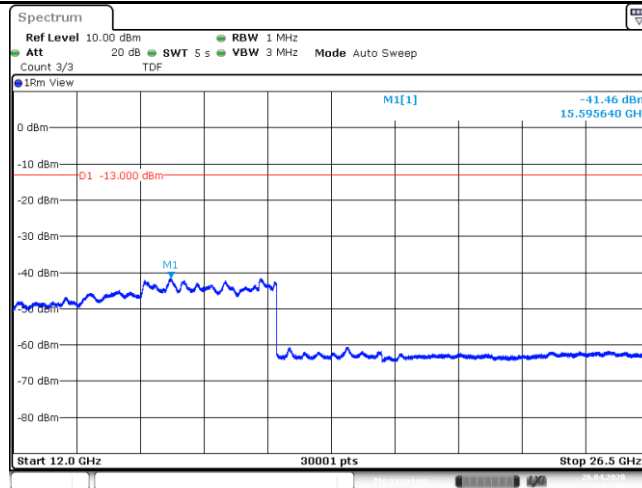


Band85_Stand-Alone_NaN_QPSK_134092_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.59dBm_-13_PAS
S



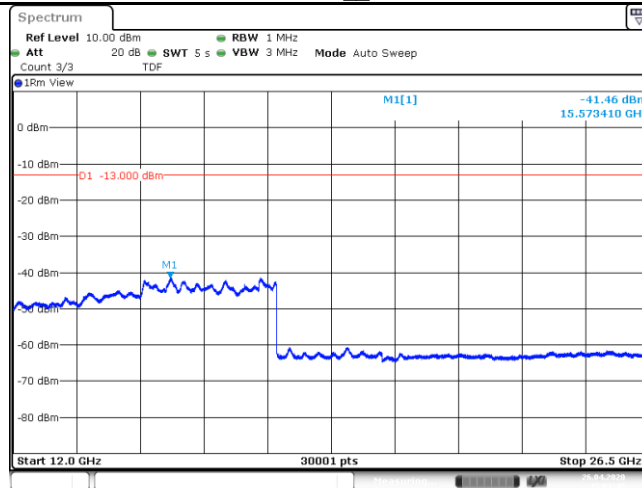
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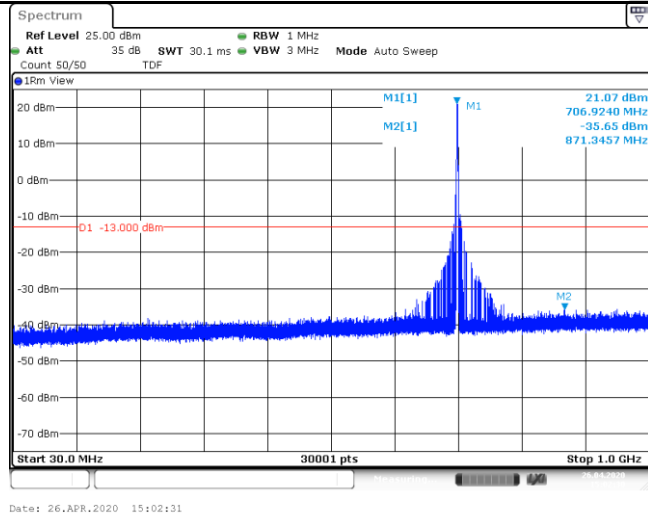
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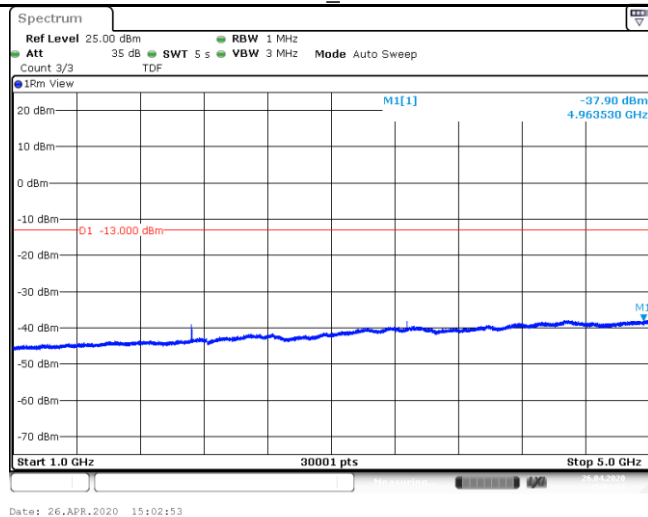


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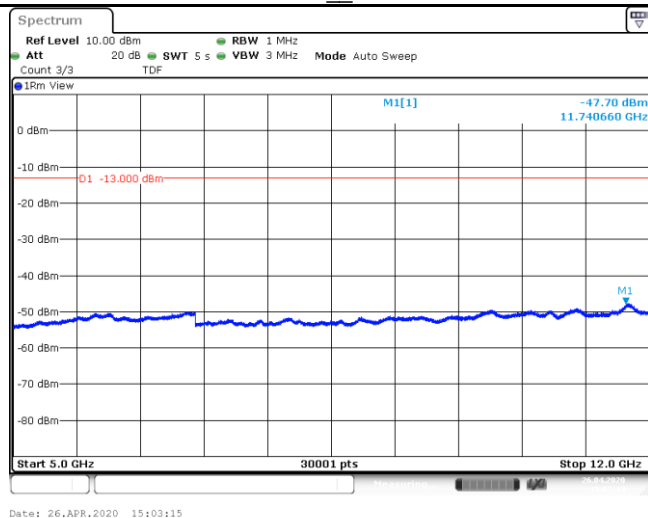
Band85_Stand-Alone_NaN_QPSK_134092_1@47_3.75kHz_30_1000_30~1000MHz@-35.65dBm_-13_PASS__

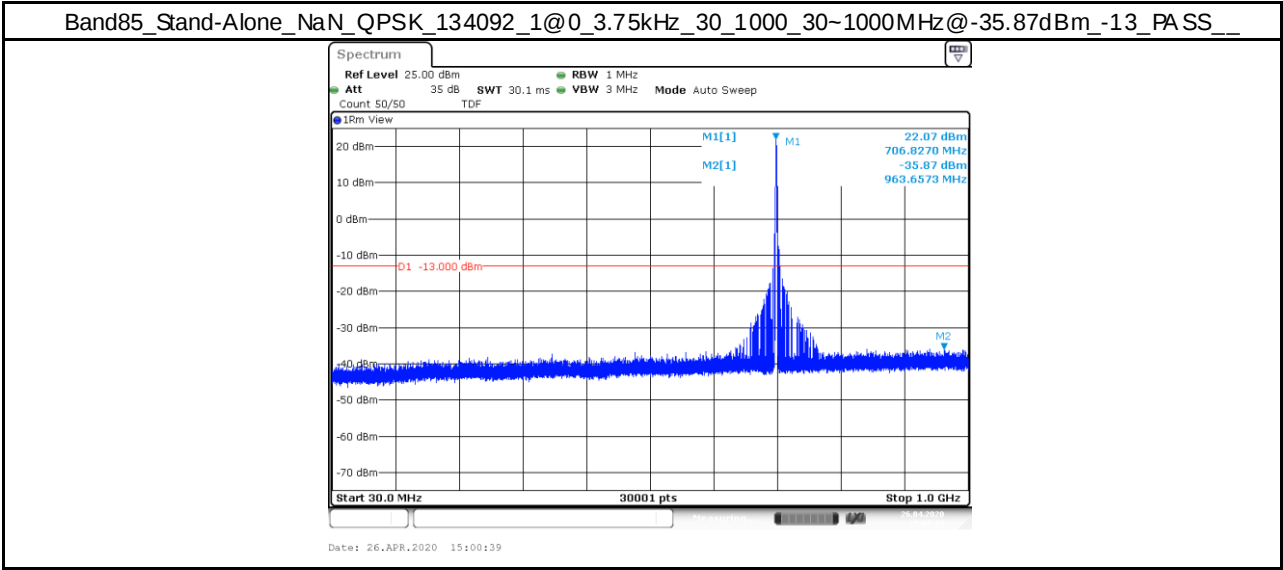


Band85_Stand-Alone_NaN_QPSK_134092_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.9dBm_-13_PASS__



Band85_Stand-Alone_NaN_QPSK_134092_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.7dBm_-13_PAS
S__





Appendix K.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
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	HV	NT	-12.46	-0.017624	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	LV	NT	-13.07	-0.018487	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	NT	-13.69	-0.019364	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	HV	NT	-22.85	-0.032320	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	LV	NT	-12.85	-0.018175	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	NT	-13.73	-0.019420	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	HV	NT	-3.06	-0.004328	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	LV	NT	-3.03	-0.004286	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	NT	-2.69	-0.003805	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	HV	NT	-6.11	-0.008642	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	LV	NT	-6.37	-0.009010	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	NT	-9.30	-0.013154	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	-40	-10.04	-0.014201	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	-30	-17.81	-0.025191	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	-20	-13.78	-0.019491	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	-10	-12.06	-0.017058	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	0	-13.10	-0.018529	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	10	-13.89	-0.019646	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	20	-14.08	-0.019915	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	30	-13.93	-0.019703	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	40	-14.35	-0.020297	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	50	-11.96	-0.016917	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	60	-12.55	-0.017751	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	70	-12.62	-0.017850	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	-40	-15.09	-0.021344	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	85	-11.99	-0.016959	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	85	-12.77	-0.018062	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	-30	-10.46	-0.014795	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	-20	-11.36	-0.016068	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	-10	-12.39	-0.017525	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	0	-13.00	-0.018388	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	10	-11.16	-0.015785	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	20	-11.23	-0.015884	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	30	-14.00	-0.019802	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	40	-11.50	-0.016266	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	50	-11.47	-0.016223	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	60	-12.42	-0.017567	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	70	-10.04	-0.014201	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@11	15kHz	NV	80	-12.59	-0.017808	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	NV	80	-11.40	-0.016124	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	-40	-2.66	-0.003762	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	-30	-5.05	-0.007143	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	-20	-5.41	-0.007652	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	-10	-5.14	-0.007270	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	0	-3.52	-0.004979	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	10	-5.91	-0.008359	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	20	-5.52	-0.007808	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	30	-4.26	-0.006025	±2.5	PASS

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Produkte
Products

Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	40	-3.78	-0.005347	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	50	-4.73	-0.006690	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	60	-3.36	-0.004752	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	70	-3.06	-0.004328	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	-40	-5.75	-0.008133	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	85	-3.49	-0.004936	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	85	-5.54	-0.007836	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	-30	-3.32	-0.004696	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	-20	-4.78	-0.006761	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	-10	-3.81	-0.005389	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	0	-5.82	-0.008232	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	10	-5.41	-0.007652	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	20	-4.29	-0.006068	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	30	-3.48	-0.004922	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	40	-2.88	-0.004074	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	50	-4.48	-0.006337	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	60	-3.18	-0.004498	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	70	-3.09	-0.004371	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	NV	80	-4.66	-0.006591	±2.5	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	NV	80	-3.00	-0.004243	±2.5	PASS