

Appendix D: Test Results of Band 12 for NB-IoT operation

APPENDIX D.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR NB	2
Test Result.....	2
APPENDIX D.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR NB	3
Test Result.....	3
Test Graphs.....	3
APPENDIX D.3: 26dB EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH FOR NB	7
Test Result.....	7
Test Graphs.....	7
APPENDIX D.4: BAND EDGE FOR NB	13
Test Result.....	13
Test Graphs.....	13
APPENDIX D.5: CONDUCTED SPURIOUS EMISSION FOR NB.....	20
Test Result.....	20
Test Graphs.....	21
APPENDIX D.6: FREQUENCY STABILITY FOR NB.....	42
Test Result.....	42

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

Test Result

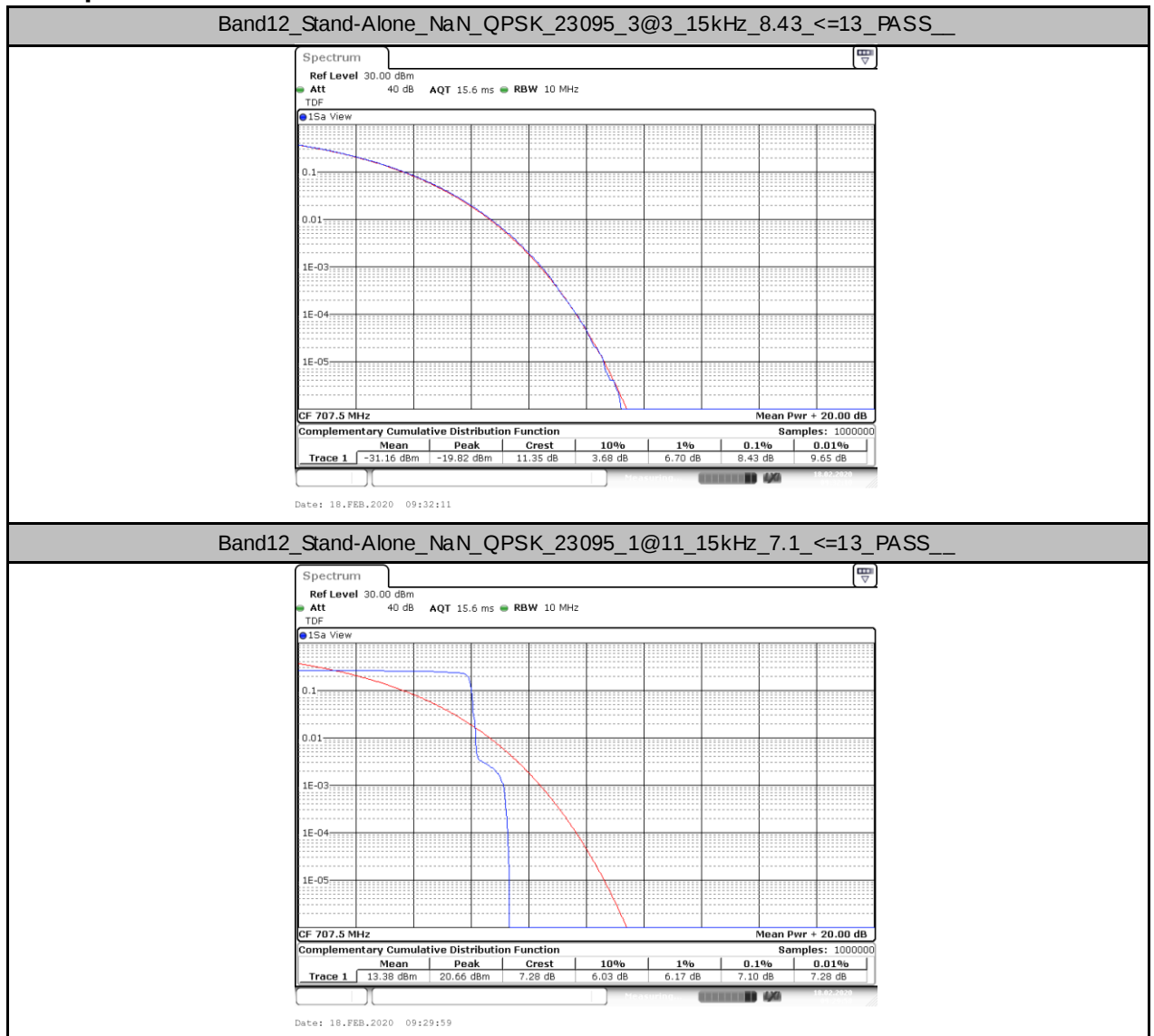
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	8.06	8.05	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@11	15kHz	7.97	7.96	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	3@3	15kHz	7.96	7.95	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@0	15kHz	21.75	21.74	0.149	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	3@3	15kHz	24.67	24.66	0.292	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@11	15kHz	21.70	21.69	0.148	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	23.14	23.13	0.206	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	23.21	23.2	0.209	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	3@3	15kHz	23.16	23.15	0.207	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@0	15kHz	21.37	21.36	0.137	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@11	15kHz	21.28	21.27	0.134	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	3@3	15kHz	24.52	24.51	0.282	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@11	15kHz	7.82	7.81	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	3@3	15kHz	7.79	7.78	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	7.86	7.85	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	7.86	7.85	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	3@3	15kHz	7.97	7.96	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	7.89	7.88	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@11	15kHz	21.65	21.64	0.146	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@0	15kHz	21.68	21.67	0.147	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	3@3	15kHz	21.94	21.93	0.156	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	21.32	21.31	0.135	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	23.07	23.06	0.202	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	3@3	15kHz	23.16	23.15	0.207	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@11	15kHz	21.34	21.33	0.136	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@0	15kHz	21.32	21.31	0.135	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	3@3	15kHz	21.69	21.68	0.147	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	7.66	7.65	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	3@3	15kHz	7.80	7.79	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	7.71	7.7	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	6.88	6.87	0.005	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	6.97	6.96	0.005	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@0	3.75kHz	24.88	24.87	0.307	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@47	3.75kHz	24.83	24.82	0.303	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@47	3.75kHz	24.69	24.68	0.294	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@0	3.75kHz	24.73	24.72	0.296	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	6.84	6.83	0.005	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	6.86	6.85	0.005	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@47	3.75kHz	6.82	6.81	0.005	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	6.81	6.8	0.005	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@0	3.75kHz	24.83	24.82	0.303	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@47	3.75kHz	24.78	24.77	0.300	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@47	3.75kHz	24.66	24.65	0.292	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@0	3.75kHz	24.63	24.62	0.290	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@47	3.75kHz	6.73	6.72	0.005	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	6.75	6.74	0.005	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	24.82	24.81	0.303	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	24.80	24.79	0.301	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@47	3.75kHz	24.70	24.69	0.294	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	24.70	24.69	0.294	3	PASS

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

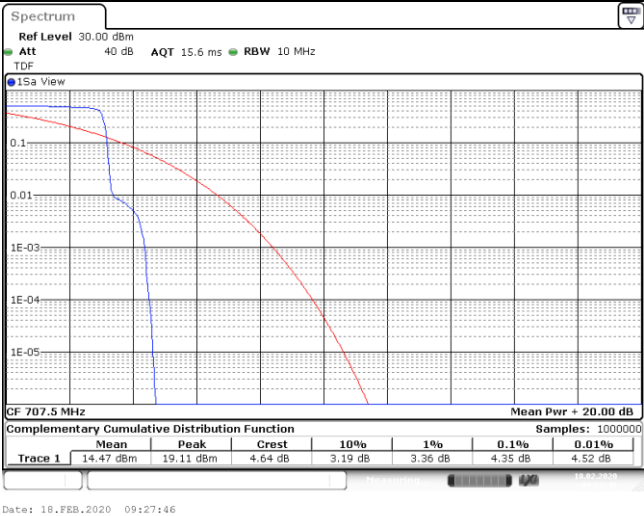
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band12	Stand-Alone	NaN	QPSK	23095	3@3	15kHz	8.43	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	7.1	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	4.35	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	3@3	15kHz	9.45	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	10.09	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	8.35	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	1.57	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	1.8	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@47	3.75kHz	6.78	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	1.88	<=13	PASS

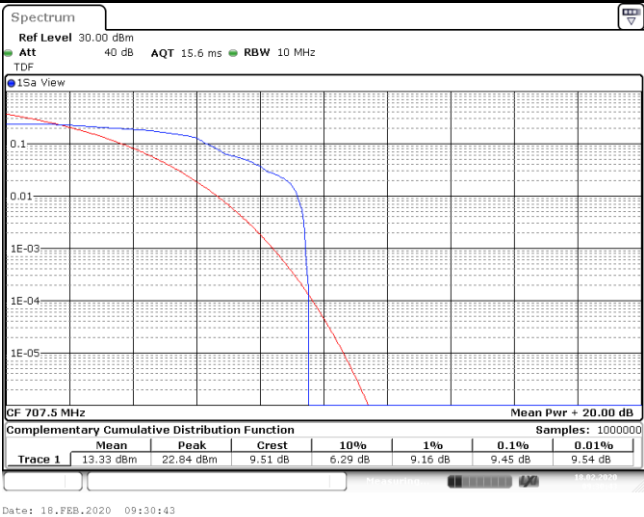
Test Graphs



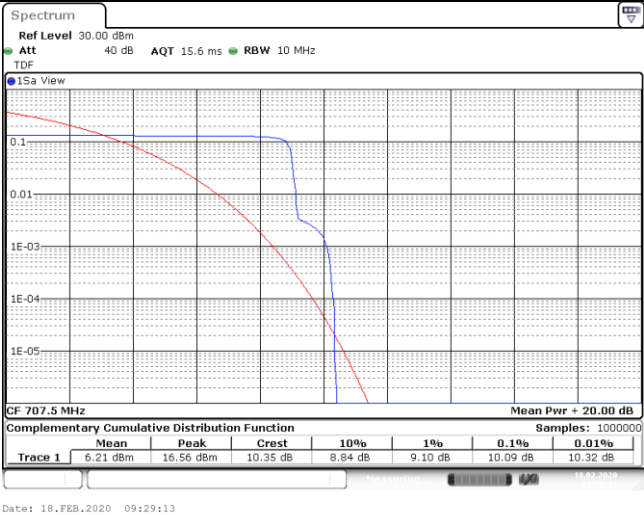
Band12_Stand-Alone_NaN_QPSK_23095_1@0_15kHz_4.35_<=13_PASS__



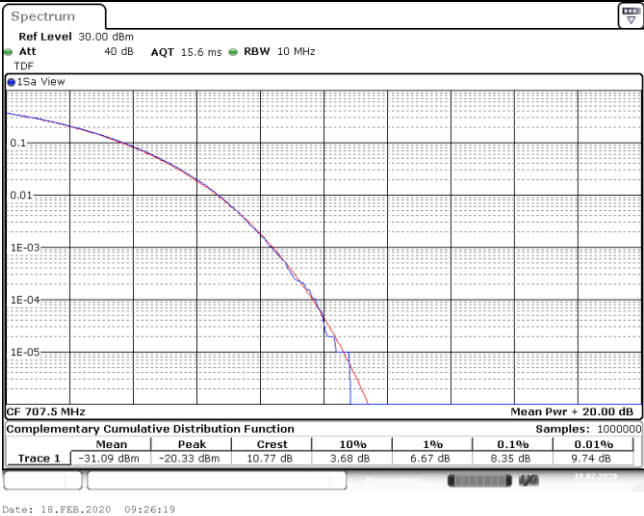
Band12_Stand-Alone_NaN_BPSK_23095_3@3_15kHz_9.45_<=13_PASS__



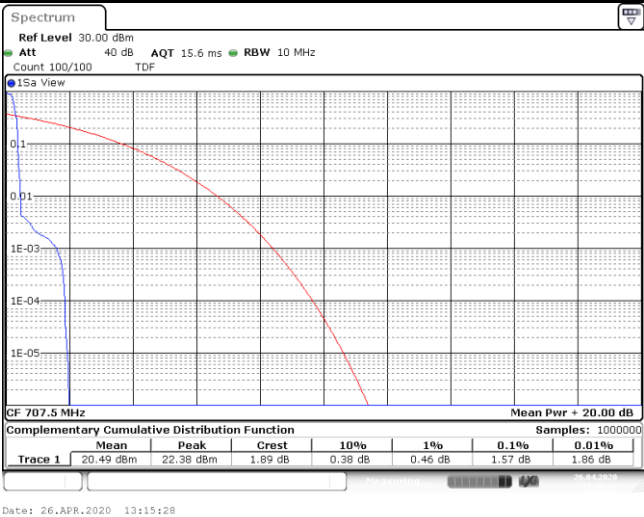
Band12_Stand-Alone_NaN_BPSK_23095_1@11_15kHz_10.09_<=13_PASS__



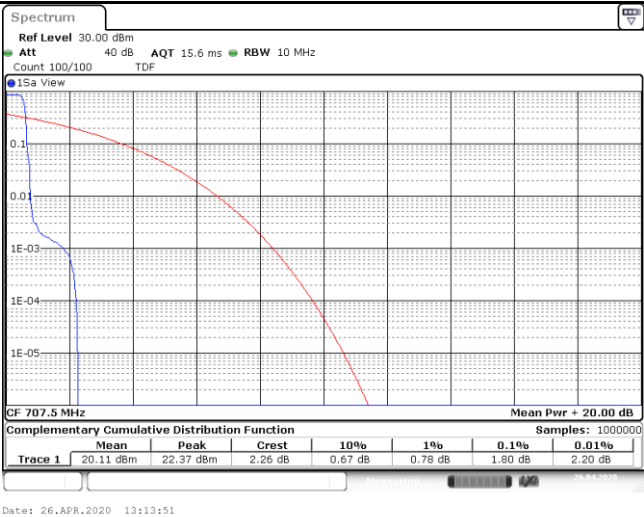
Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_8.35_<=13_PASS__



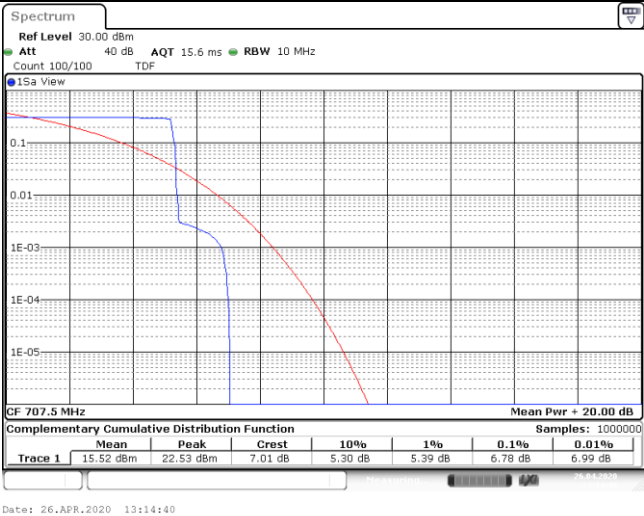
Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_1.57_<=13_PASS__



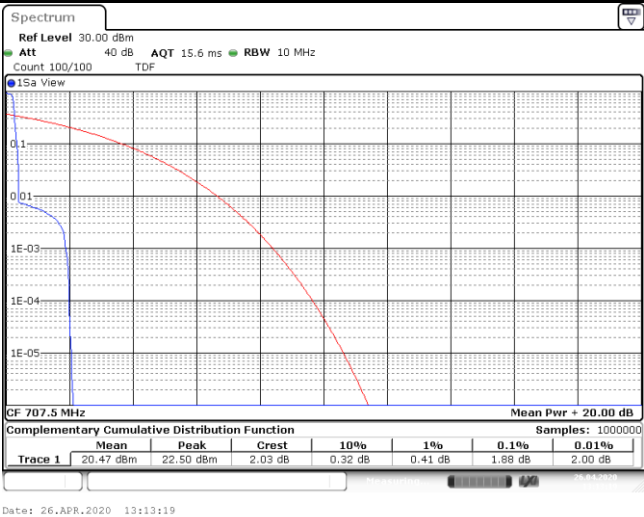
Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_1.8_<=13_PASS__



Band12_Stand-Alone_NaN_BPSK_23095_1@47_3.75kHz_6.78_<=13_PASS__



Band12_Stand-Alone_NaN_BPSK_23095_1@0_3.75kHz_1.88_<=13_PASS__

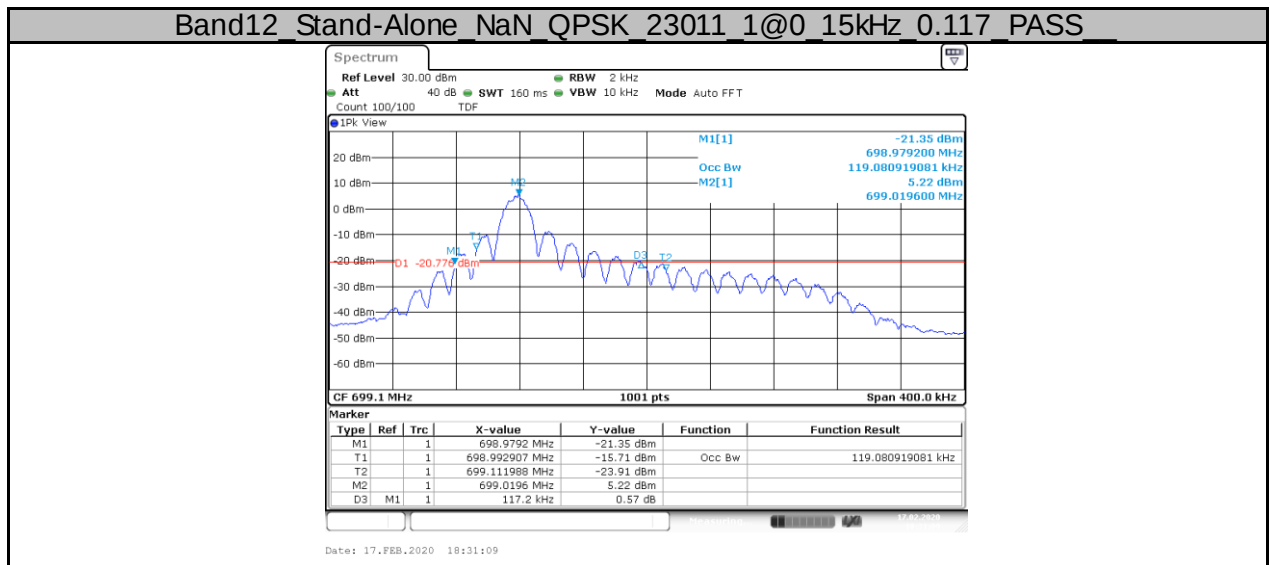


Appendix D.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

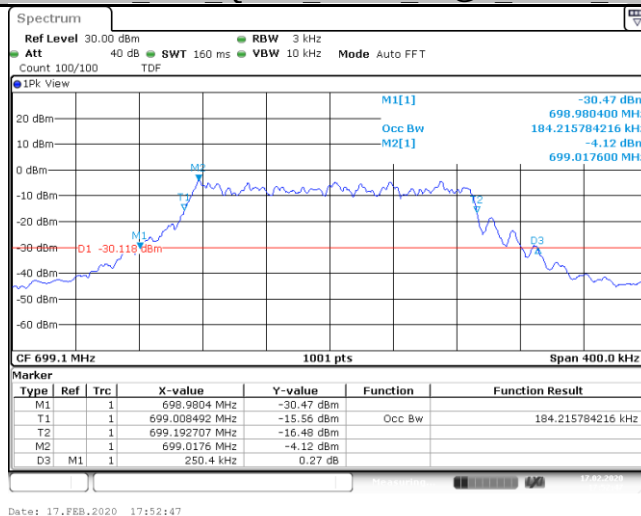
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	0.117	0.119	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	0.250	0.184	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	0.118	0.119	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	0.251	0.184	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	0.118	0.120	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	0.250	0.184	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	0.106	0.127	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	0.106	0.125	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	0.106	0.128	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	0.038	0.052	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	0.038	0.052	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	0.034	0.055	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	0.034	0.055	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	0.038	0.050	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	0.032	0.054	PASS

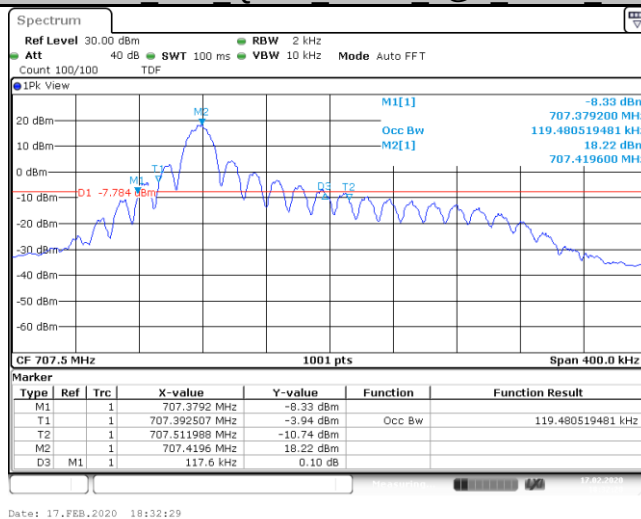
Test Graphs



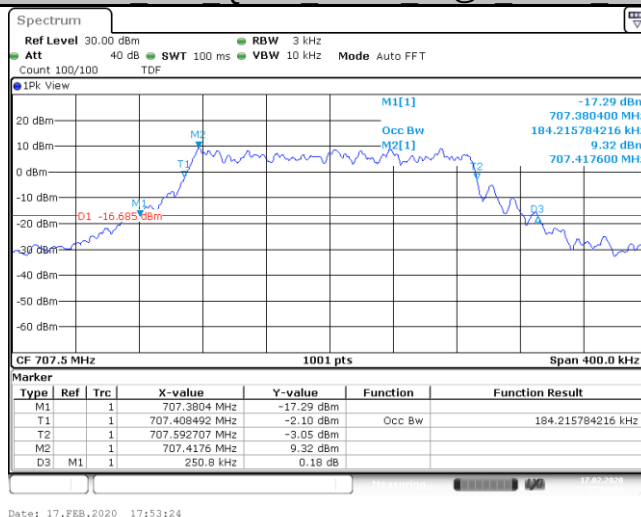
Band12 Stand-Alone NaN QPSK 23011 12@0 15kHz 0.250 PASS



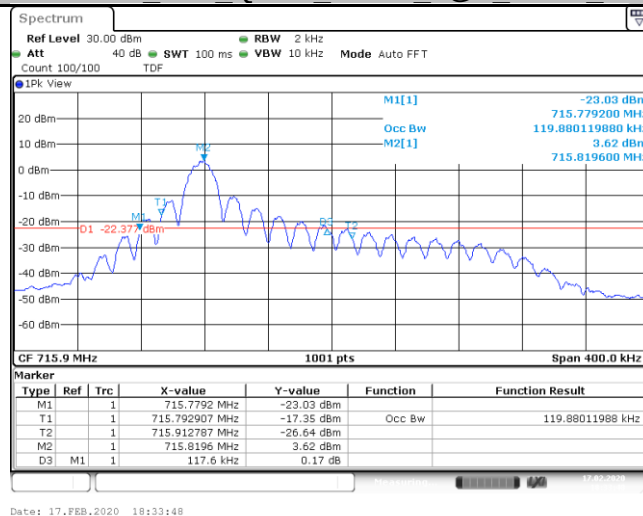
Band12 Stand-Alone NaN QPSK 23095 1@0 15kHz 0.118 PASS



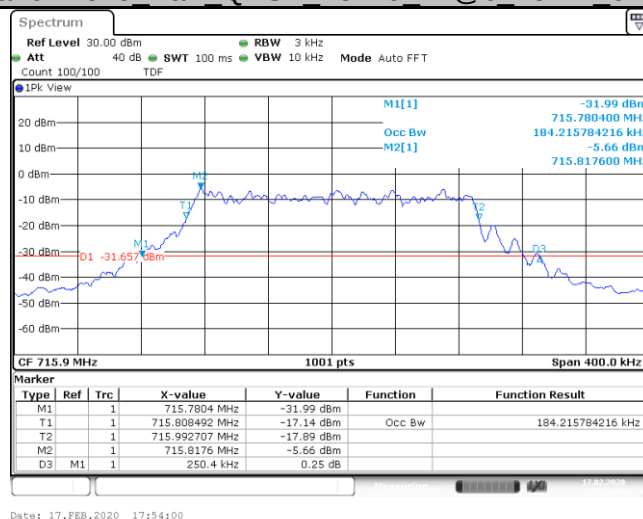
Band12 Stand-Alone NaN QPSK 23095 12@0 15kHz 0.251 PASS



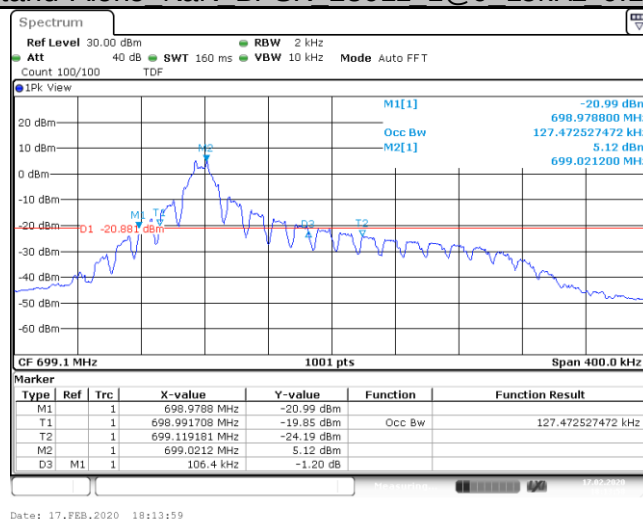
Band12 Stand-Alone NaN QPSK 23179 1@0 15kHz 0.118 PASS



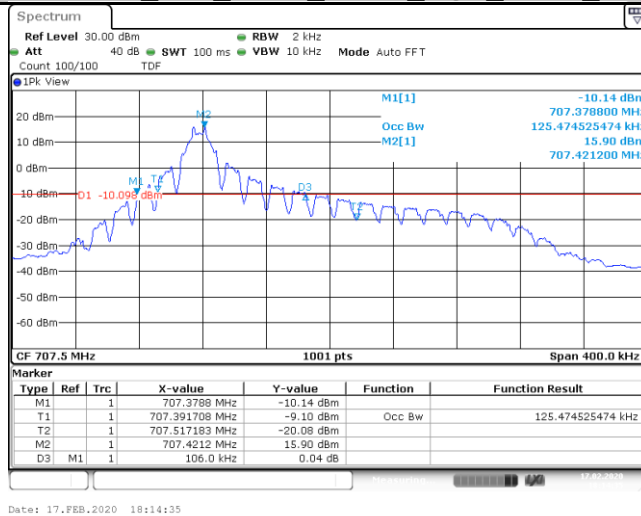
Band12 Stand-Alone NaN QPSK 23179 12@0 15kHz 0.250 PASS



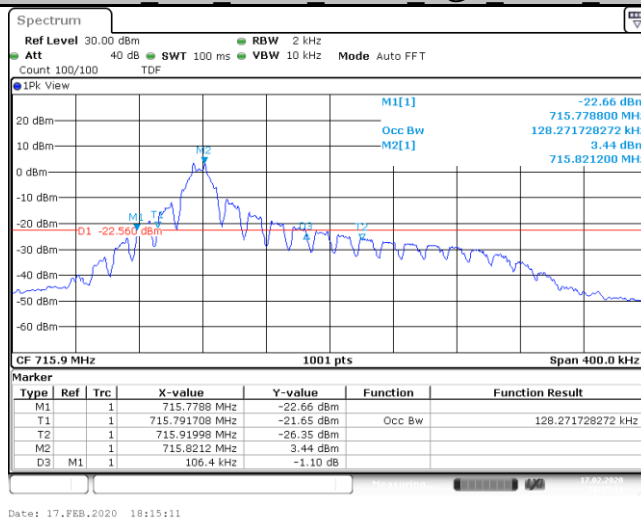
Band12 Stand-Alone NaN BPSK 23011 1@0 15kHz 0.106 PASS



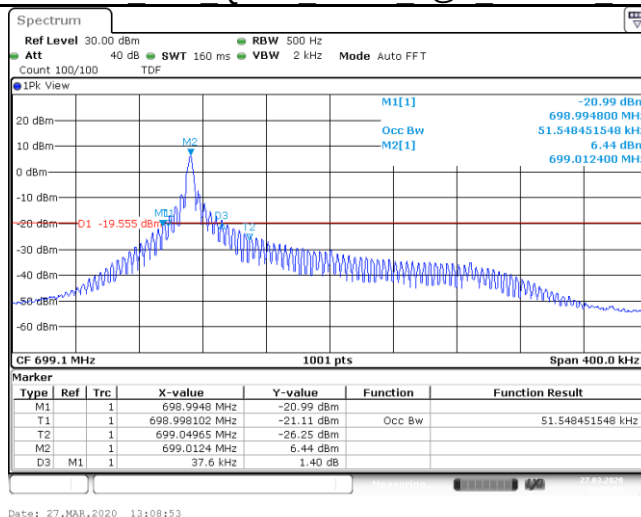
Band12 Stand-Alone NaN BPSK 23095 1@0 15kHz 0.106 PASS



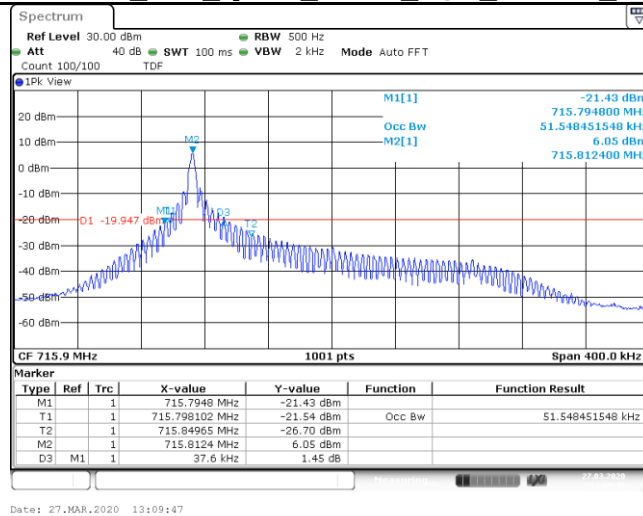
Band12 Stand-Alone NaN BPSK 23179 1@0 15kHz 0.106 PASS



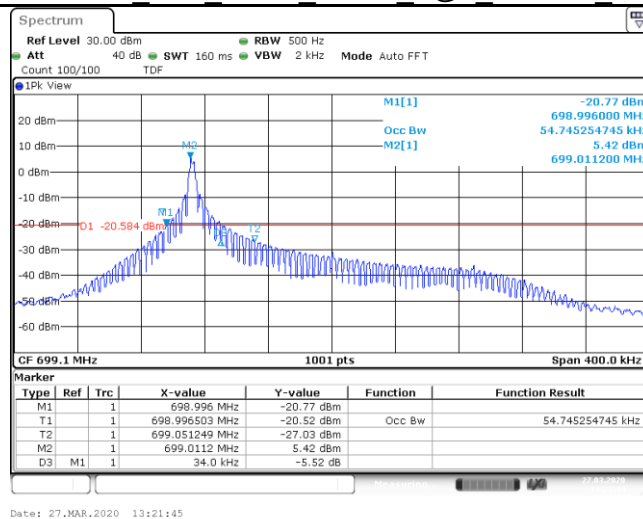
Band12 Stand-Alone NaN QPSK 23011 1@0 3.75kHz 0.038 PASS



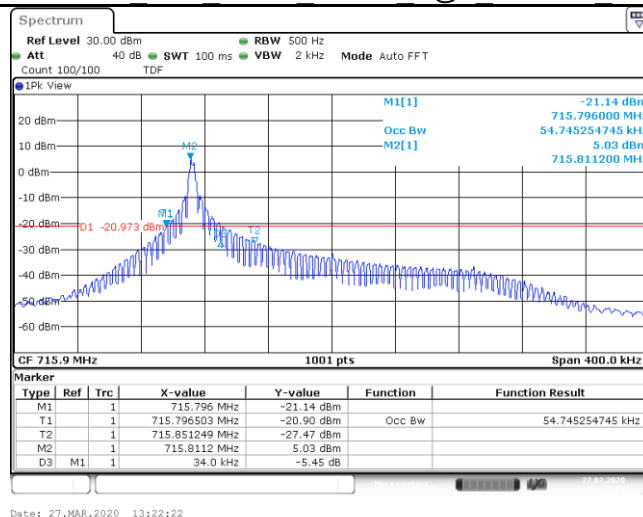
Band12 Stand-Alone NaN QPSK 23179 1@0 3.75kHz 0.038 PASS



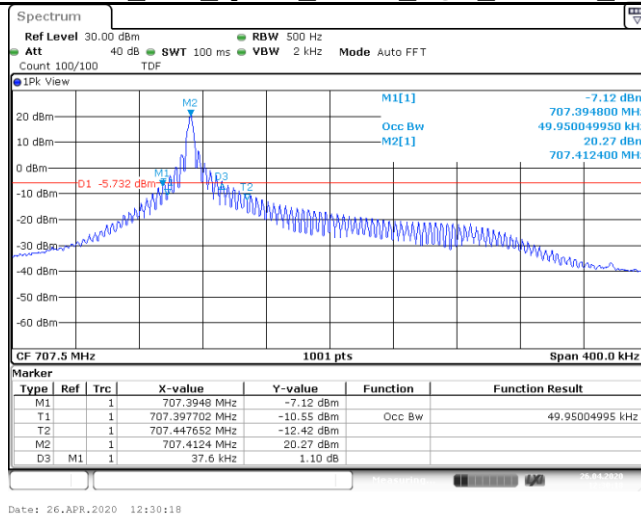
Band12 Stand-Alone NaN BPSK 23011 1@0 3.75kHz 0.034 PASS



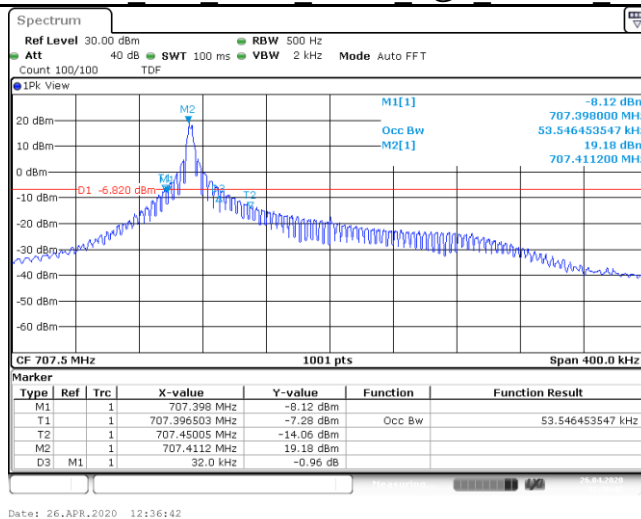
Band12 Stand-Alone NaN BPSK 23179 1@0 3.75kHz 0.034 PASS



Band12 Stand-Alone NaN QPSK 23095 1@0 3.75kHz 0.038 PASS



Band12 Stand-Alone NaN BPSK 23095 1@0 3.75kHz 0.032 PASS

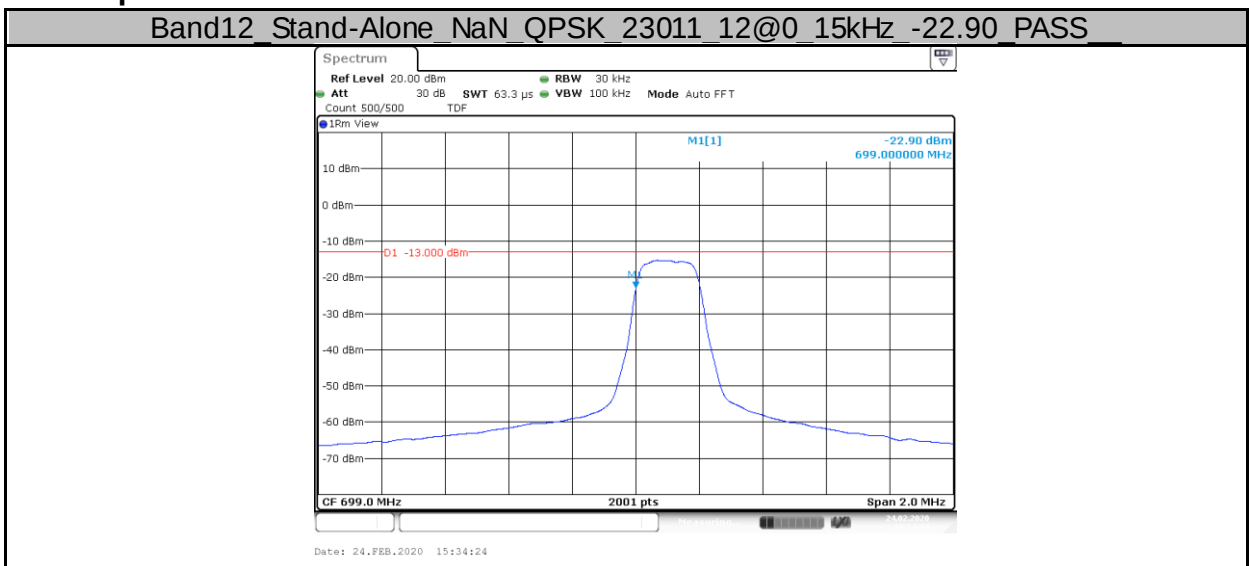


Appendix D.4: Band Edge for NB

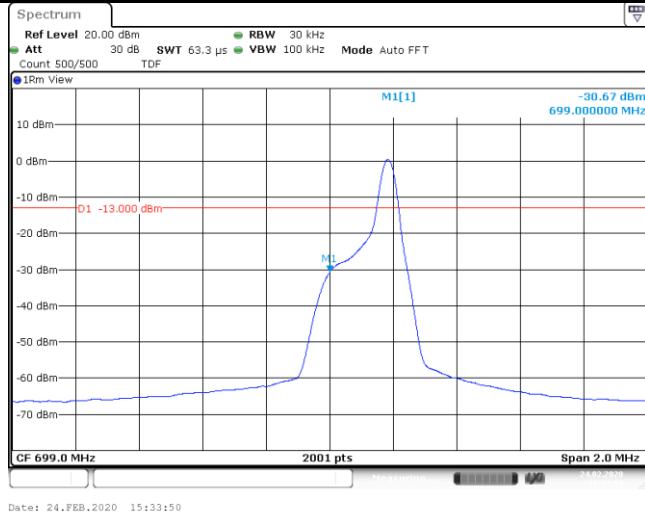
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	-22.90	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@11	15kHz	-30.67	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	-15.85	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	-23.49	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@11	15kHz	-16.10	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	-31.71	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	-28.78	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	-14.11	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	-14.46	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	-29.88	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	-33.09	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	-17.16	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	-17.22	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	-32.57	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@47	3.75kHz	-30.66	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	-15.90	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@47	3.75kHz	-16.17	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	-31.24	PASS

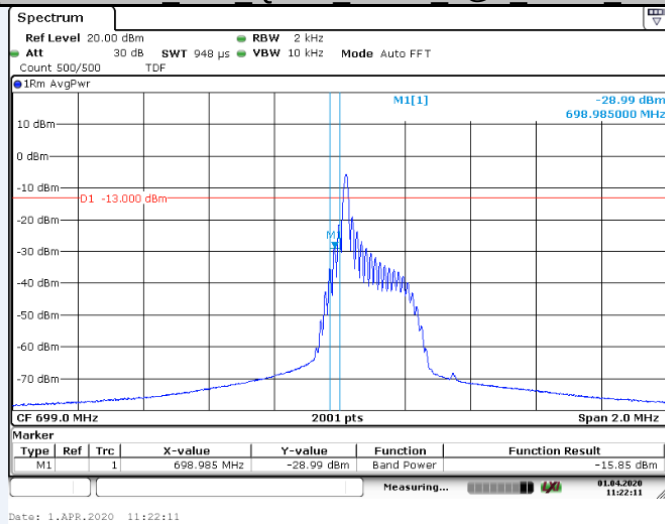
Test Graphs



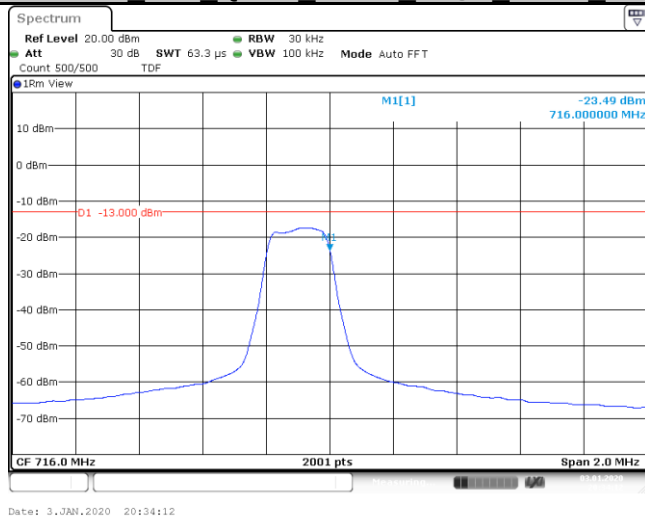
Band12 Stand-Alone NaN QPSK 23011 1@11 15kHz -30.67 PASS



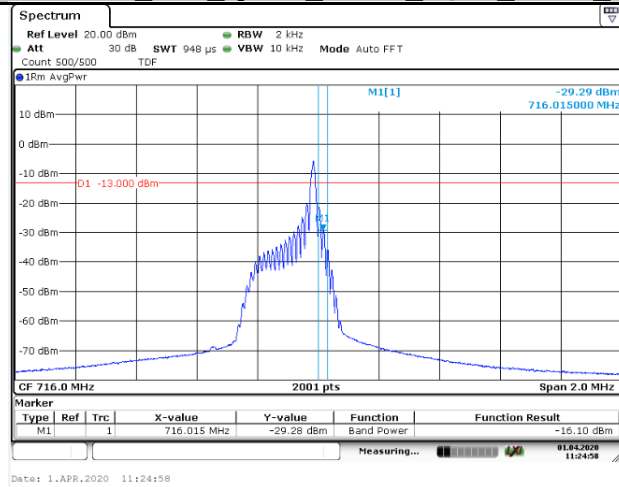
Band12 Stand-Alone NaN QPSK 23011 1@0 15kHz -15.85 PASS



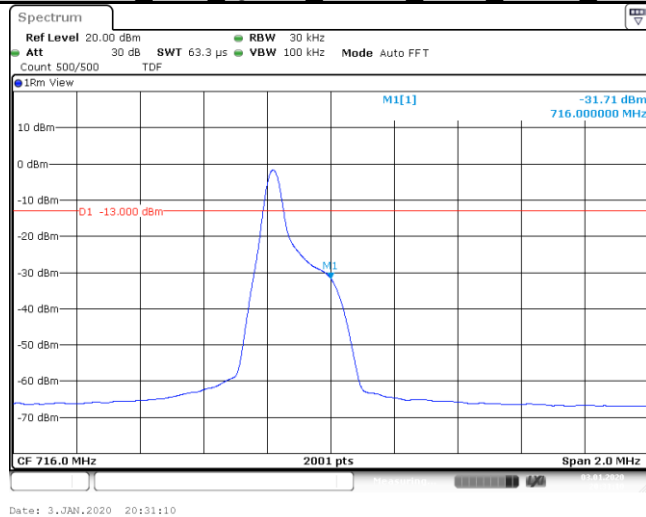
Band12 Stand-Alone NaN QPSK 23179 12@0 15kHz -23.49 PASS



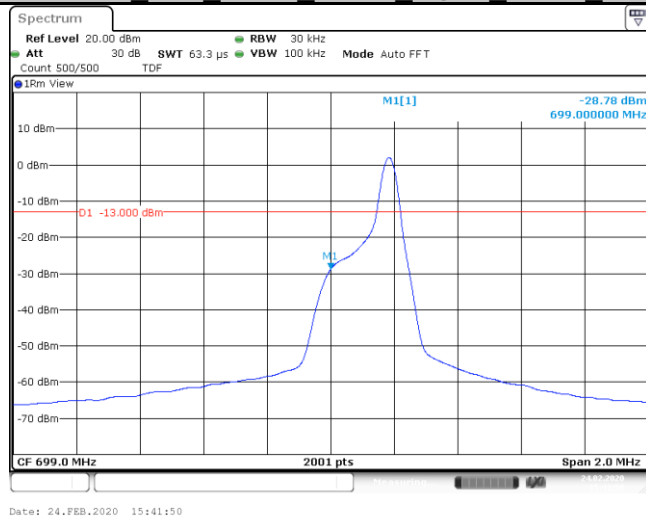
Band12 Stand-Alone NaN QPSK 23179 1@11 15kHz -16.10 PASS



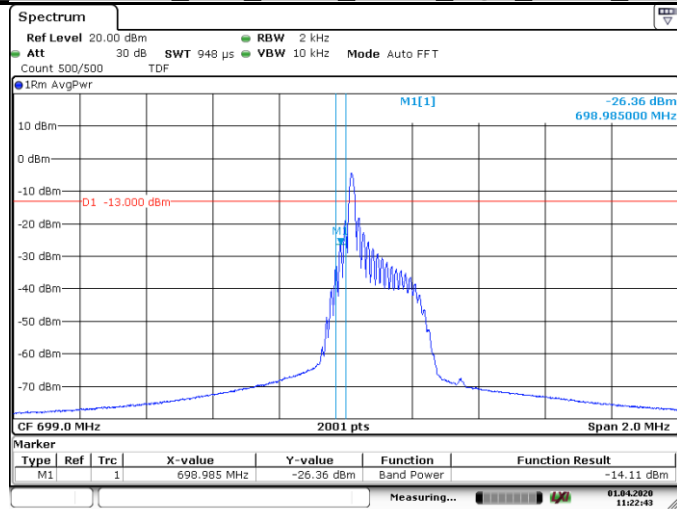
Band12 Stand-Alone NaN QPSK 23179 1@0 15kHz -31.71 PASS



Band12 Stand-Alone NaN BPSK 23011 1@11 15kHz -28.78 PASS

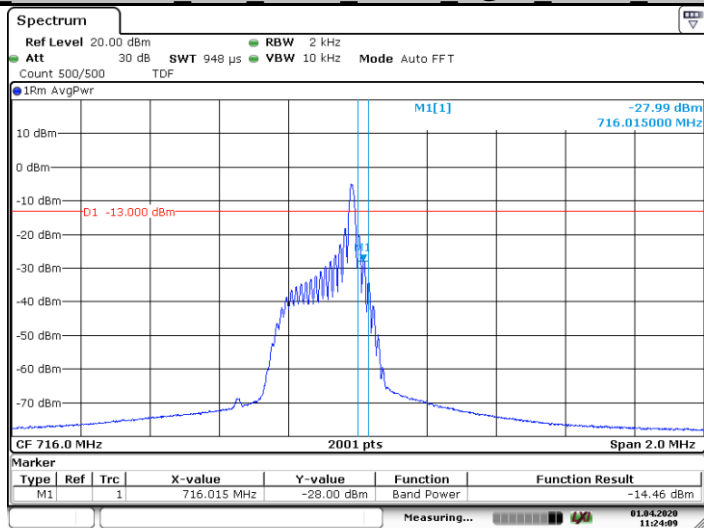


Band12 Stand-Alone NaN BPSK 23011 1@0 15kHz -14.11 PASS



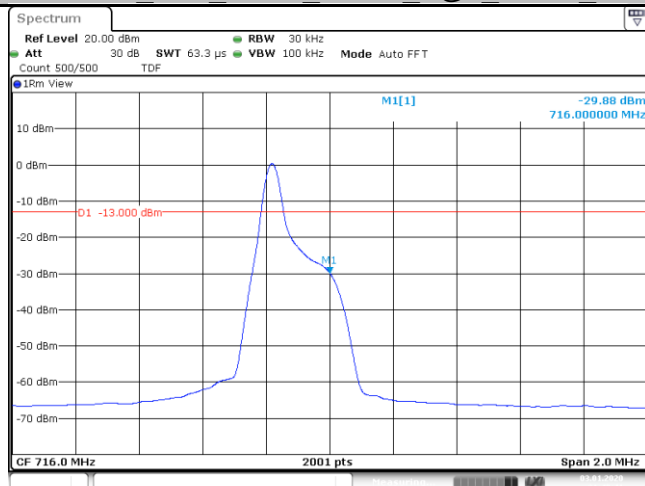
Date: 1.APR.2020 11:22:43

Band12 Stand-Alone NaN BPSK 23179 1@11 15kHz -14.46 PASS



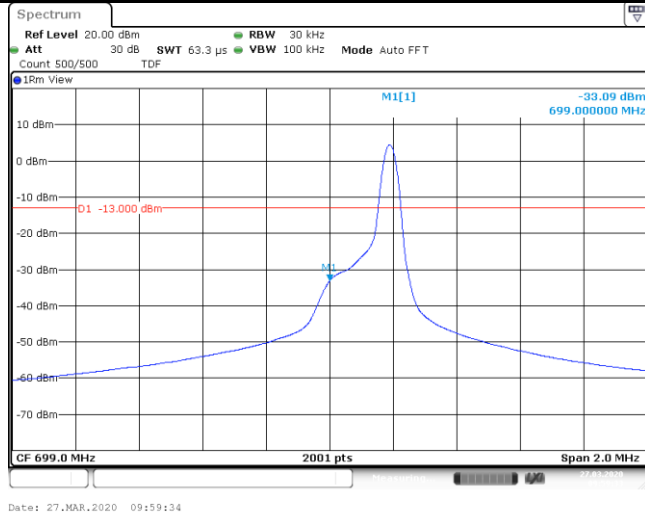
Date: 1.APR.2020 11:24:10

Band12 Stand-Alone NaN BPSK 23179 1@0 15kHz -29.88 PASS

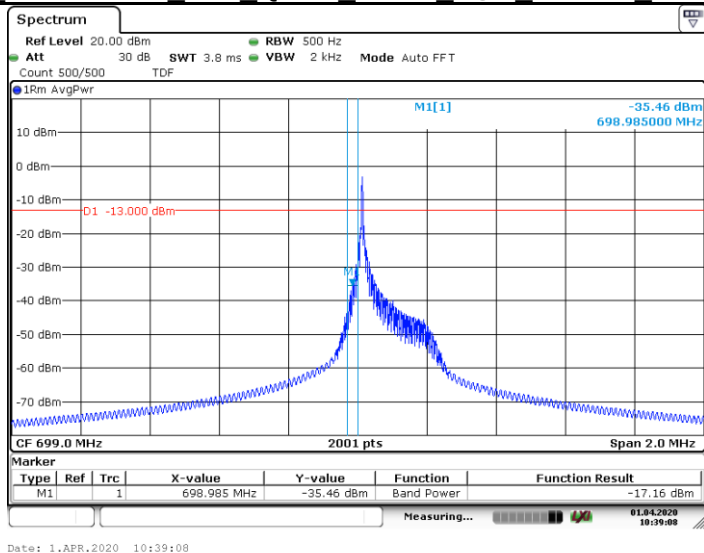


Date: 3.JAN.2020 21:49:41

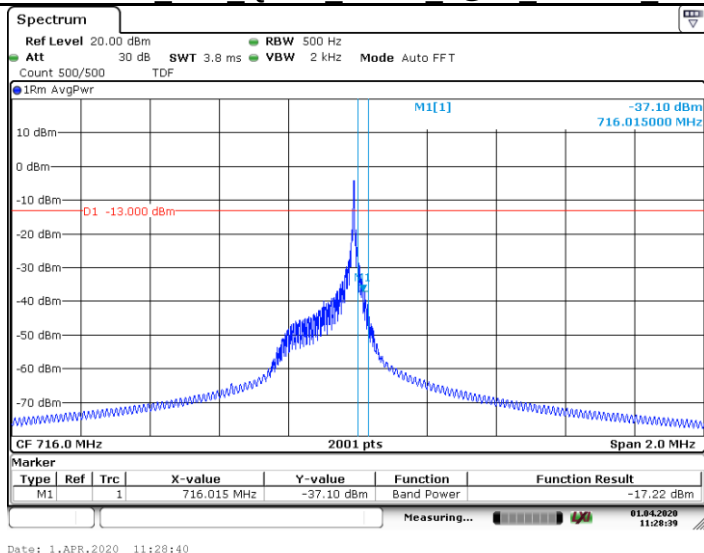
Band12 Stand-Alone NaN QPSK 23011 1@47 3.75kHz -33.09 PASS



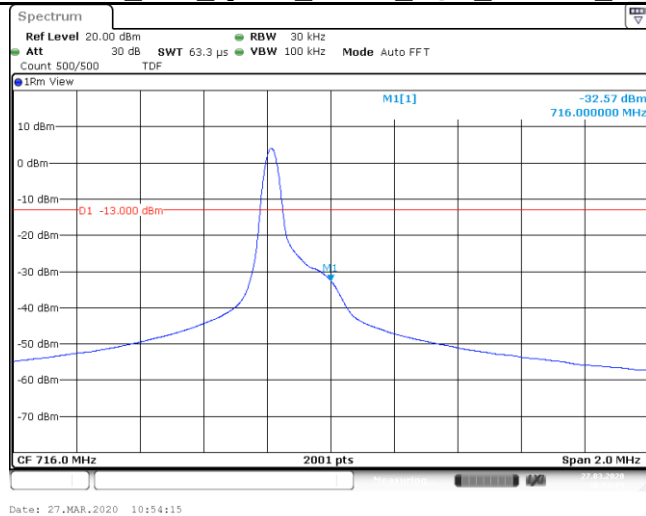
Band12 Stand-Alone NaN QPSK 23011 1@0 3.75kHz -17.16 PASS



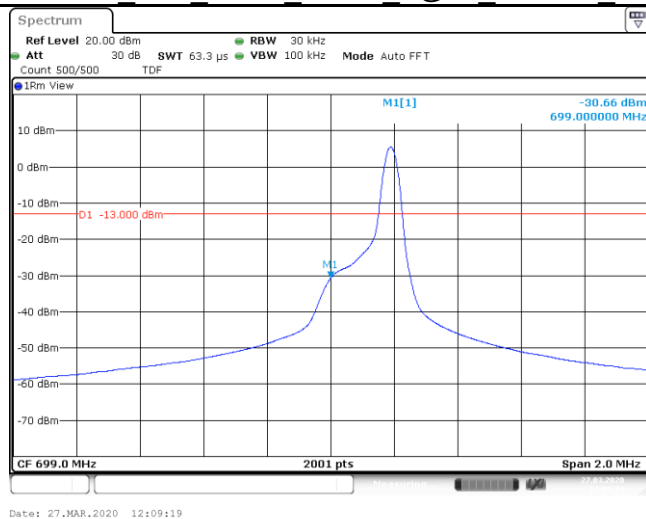
Band12 Stand-Alone NaN QPSK 23179 1@47 3.75kHz -17.22 PASS



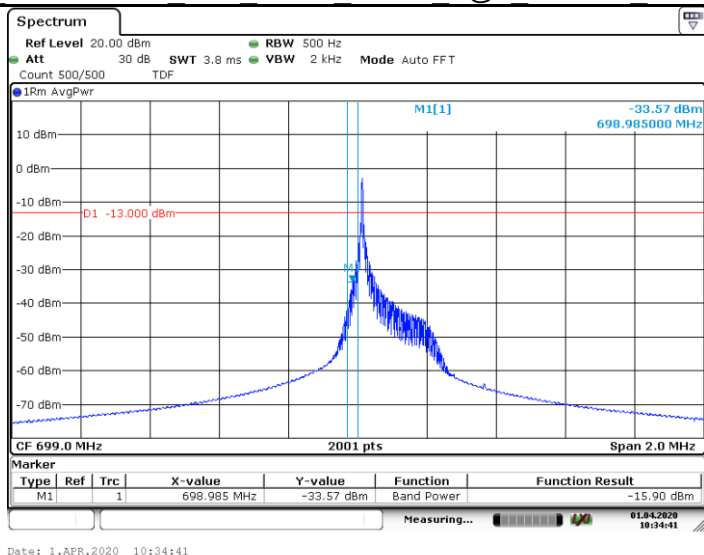
Band12 Stand-Alone NaN QPSK 23179 1@0 3.75kHz -32.57 PASS



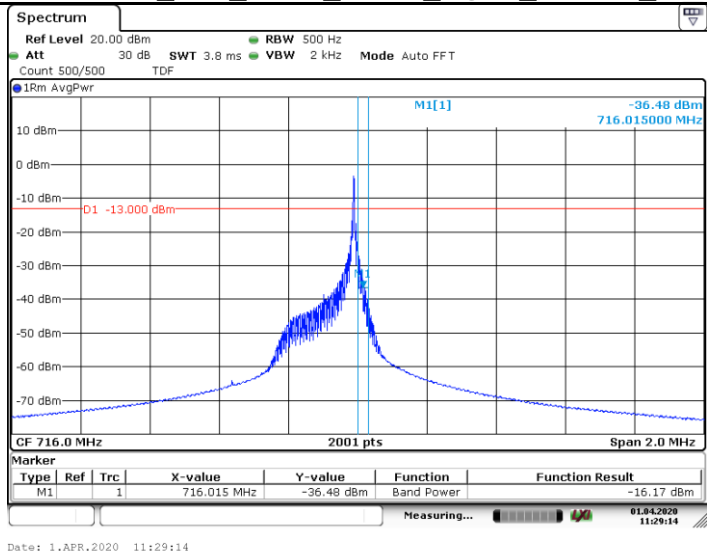
Band12 Stand-Alone NaN BPSK 23011 1@47 3.75kHz -30.66 PASS



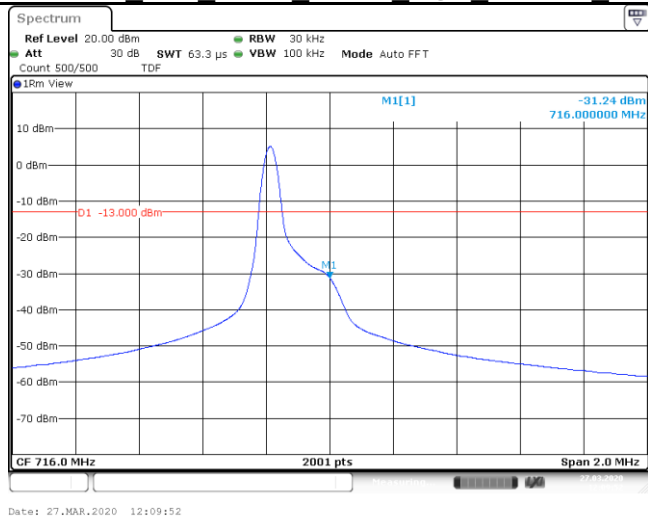
Band12 Stand-Alone NaN BPSK 23011 1@0 3.75kHz -15.90 PASS



Band12 Stand-Alone NaN BPSK 23179 1@47 3.75kHz -16.17 PASS



Band12 Stand-Alone NaN BPSK 23179 1@0 3.75kHz -31.24 PASS



Appendix D.5: Conducted Spurious Emission for NB

Test Result

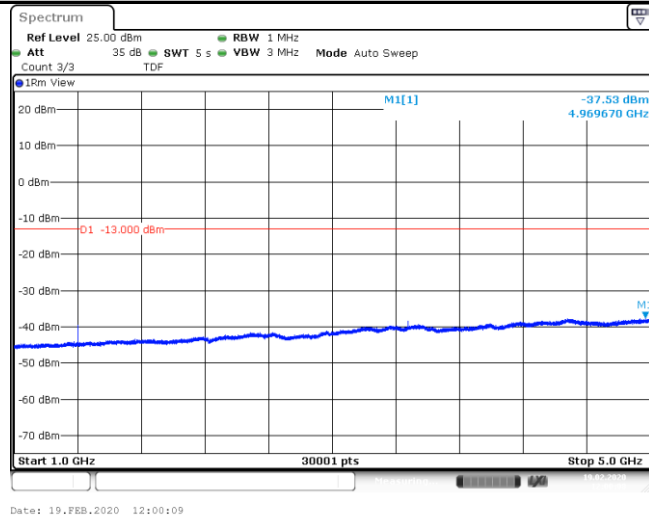
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	1000	5000	1000~5000MHz@-37.53dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	5000	12000	5000~12000MHz@-47.43dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	12000	26500	12000~26500MHz@-41.18dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	30	1000	30~1000MHz@-35.52dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	30	1000	30~1000MHz@-35.21dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	1000	5000	1000~5000MHz@-24.19dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	5000	12000	5000~12000MHz@-47.34dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	12000	26500	12000~26500MHz@-41.36dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	30	1000	30~1000MHz@-35.83dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	12000	26500	12000~26500MHz@-41.36dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	1000	5000	1000~5000MHz@-37.74dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	5000	12000	5000~12000MHz@-47.18dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	1000	5000	1000~5000MHz@-37.18dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	30	1000	30~1000MHz@-35.58dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	1000	5000	1000~5000MHz@-36.86dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	5000	12000	5000~12000MHz@-47.28dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	12000	26500	12000~26500MHz@-41.3dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	5000	12000	5000~12000MHz@-47.2dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	12000	26500	12000~26500MHz@-41.22dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	30	1000	30~1000MHz@-35.44dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	5000	12000	5000~12000MHz@-47.39dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	12000	26500	12000~26500MHz@-41.33dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	1000	5000	1000~5000MHz@-28.01dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	30	1000	30~1000MHz@-35.52dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	12000	26500	12000~26500MHz@-40.95dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	5000	12000	5000~12000MHz@-47.26dBm	-13	PASS
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	PASS
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	PASS
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
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.35dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	30	1000	30~1000MHz@-35.12dBm	-13	PASS
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	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.31dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.69dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.67dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.42dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	30	1000	30~1000MHz@-35.51dBm	-13	PASS
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	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	30	1000	30~1000MHz@-35.64dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.68dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.77dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.44dBm	-13	PASS
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

Produkte
Products

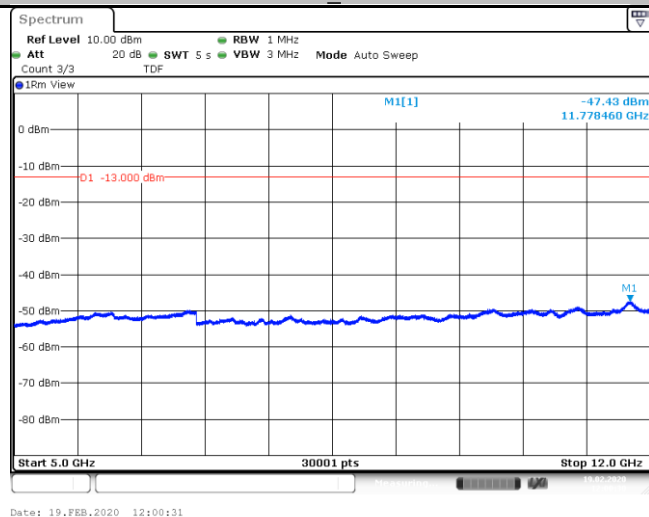
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.85dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	30	1000	30~1000MHz@-35.02dBm	-13	PASS

Test Graphs

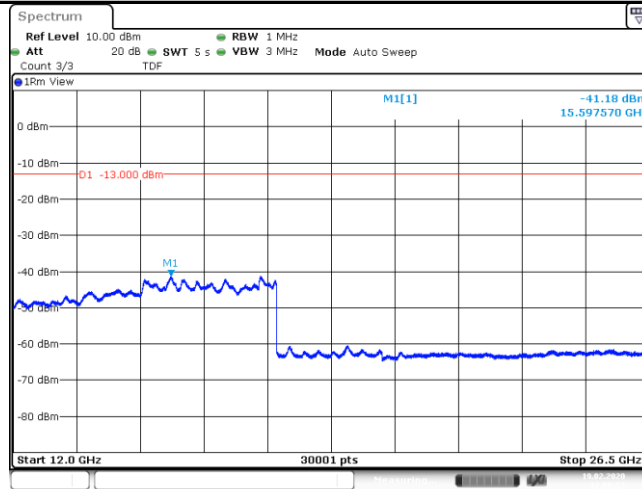
Band12_Stand-Alone_NaN_QPSK_23011_12@0_15kHz_1000_5000_1000~5000MHz@-37.53dBm_-13_PASS_



Band12_Stand-Alone_NaN_QPSK_23011_12@0_15kHz_5000_12000_5000~12000MHz@-47.43dBm_-13_PASS_

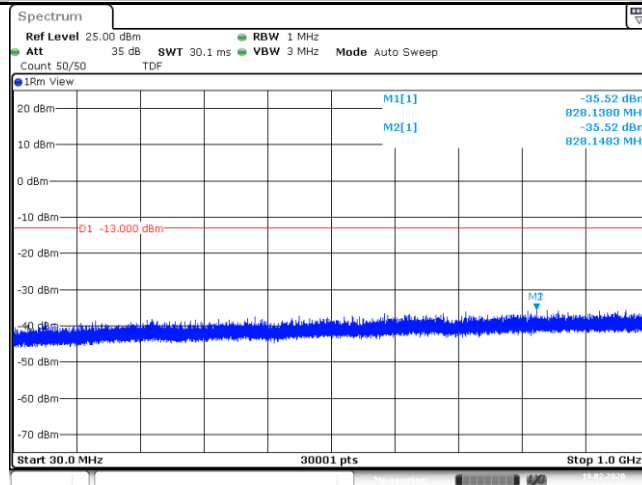


Band12_Stand-Alone_NaN_QPSK_23011_12@0_15kHz_12000_26500_12000~26500MHz@-41.18dBm_-13_PAS
S__



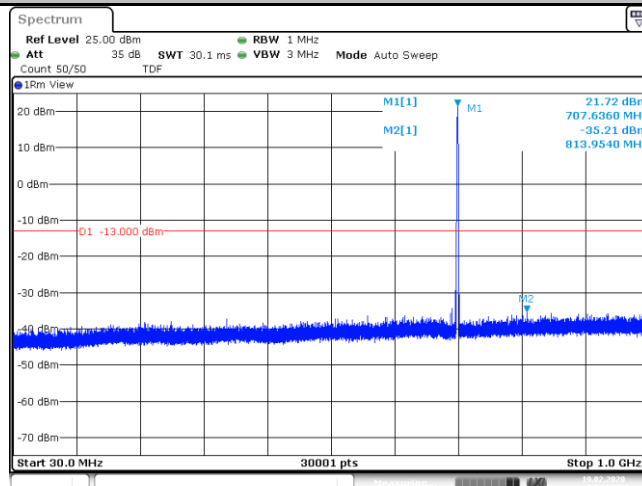
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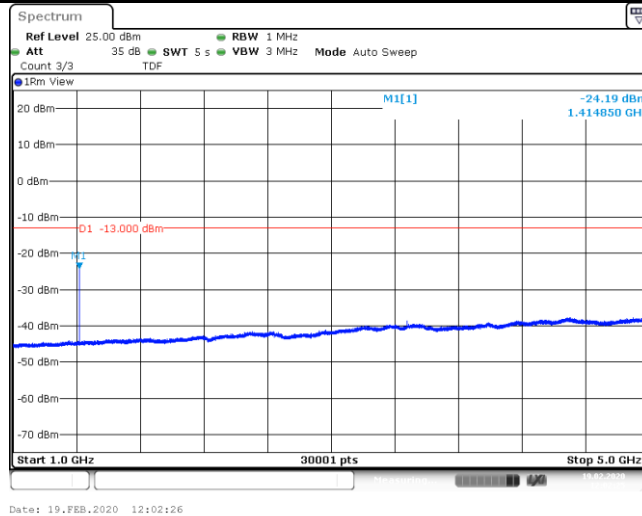
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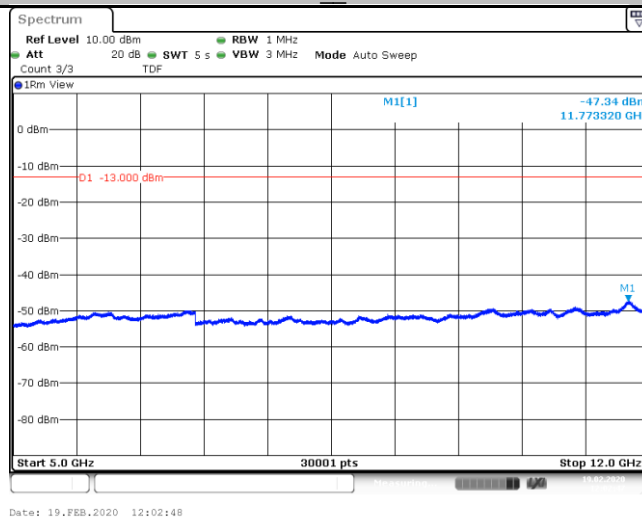


Date: 19.FEB.2020 12:02:04

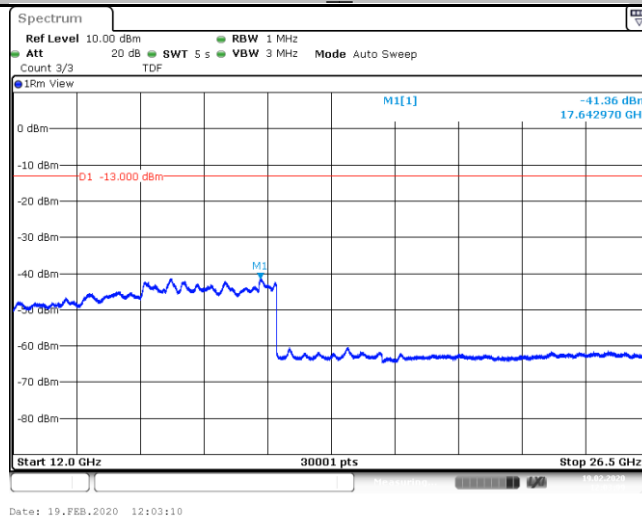
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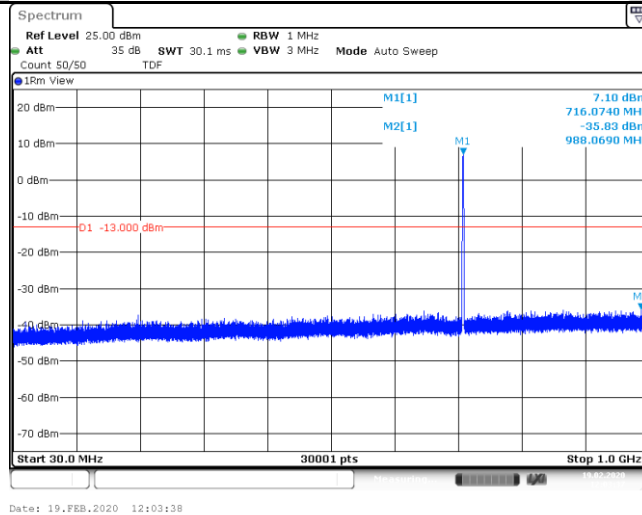
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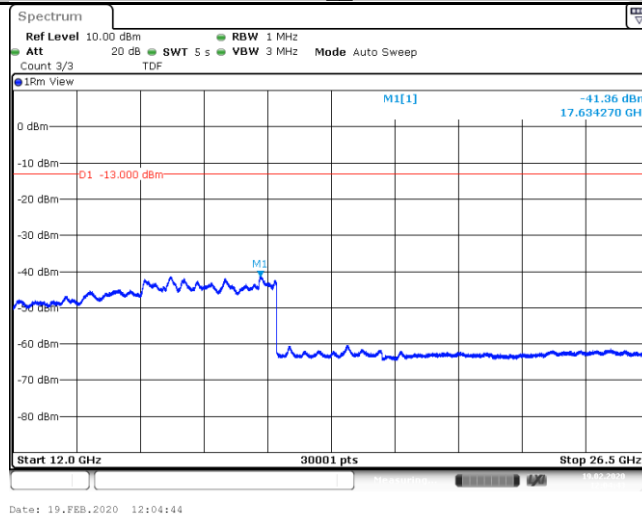
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S



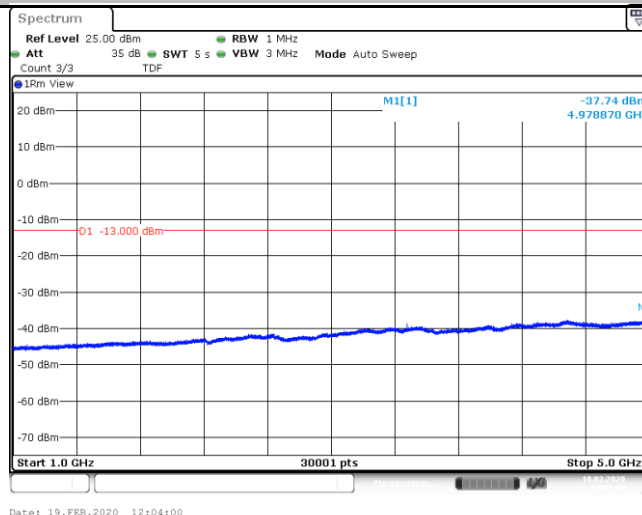
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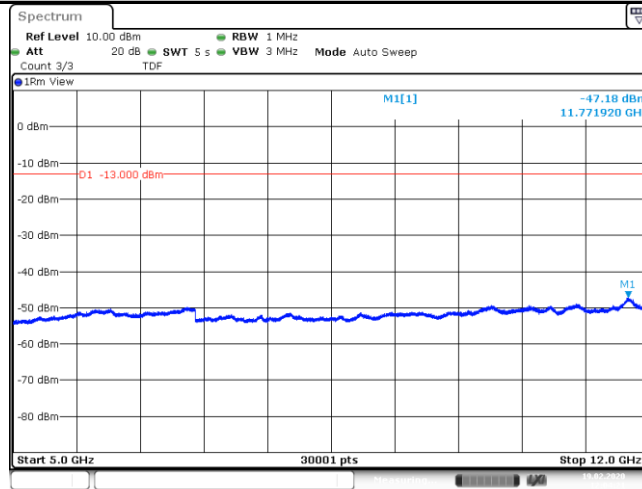
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S_



Band12_Stand-Alone_NaN_QPSK_23179_12@0_15kHz_1000_5000_1000-5000MHz@-37.74dBm_-13_PASS__

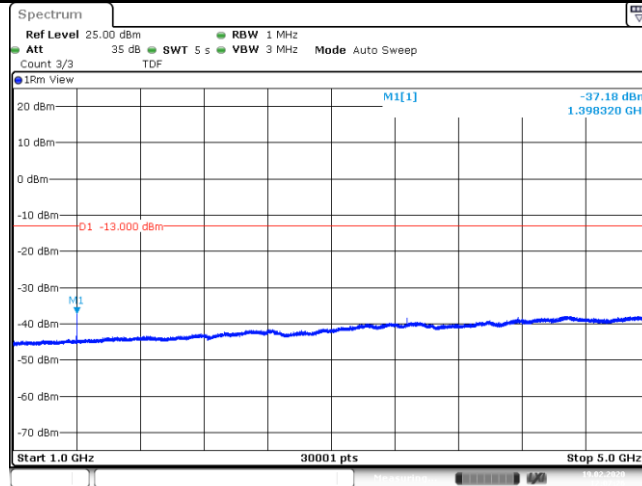


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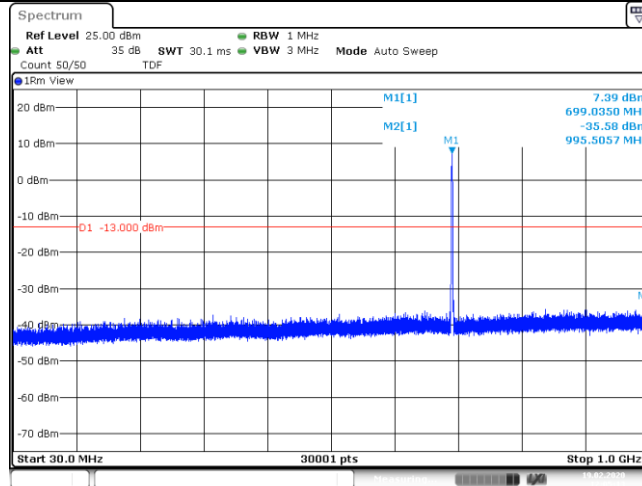
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Band12_Stand-Alone_NaN_BPSK_23011_1@11_15kHz_1000_5000_1000~5000MHz@-37.18dBm_-13_PASS



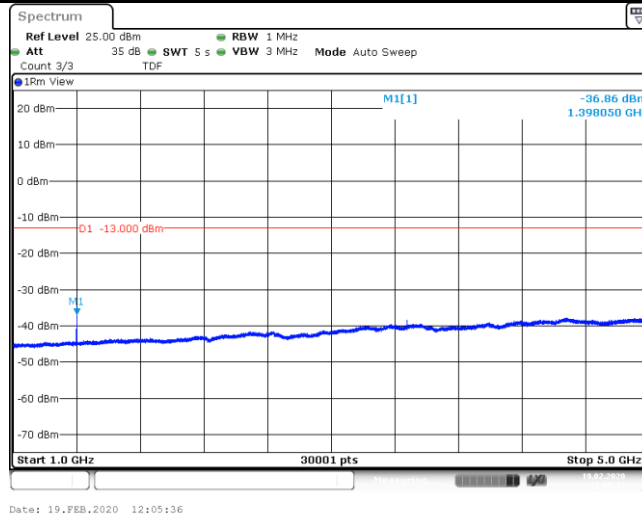
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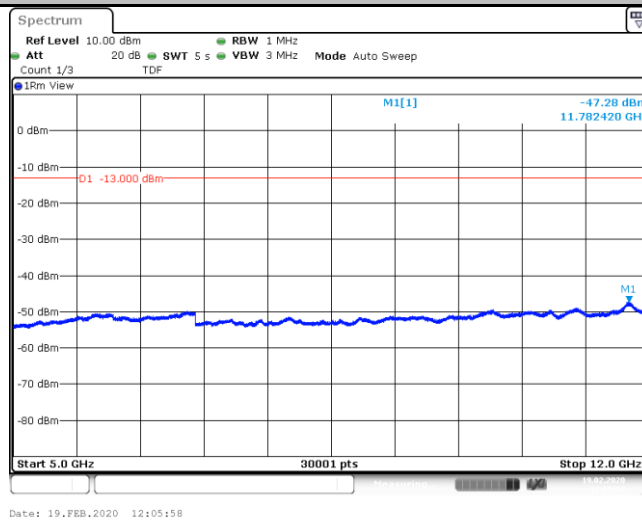


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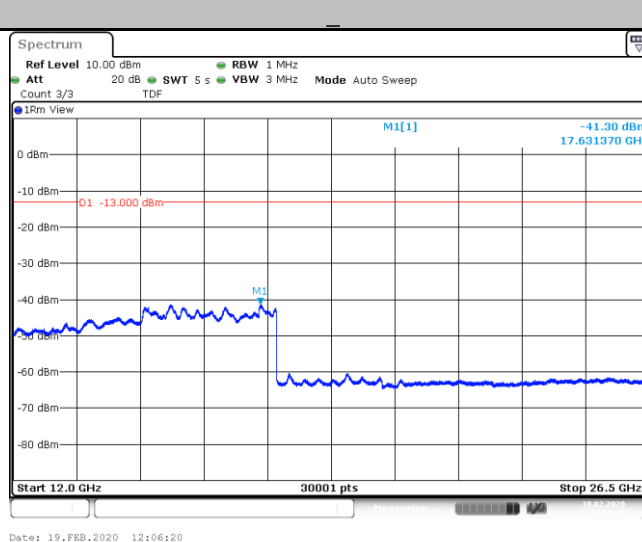
Band12_Stand-Alone_NaN_BPSK_23011_1@0_15kHz_1000_5000_1000~5000MHz@-36.86dBm_-13_PASS_



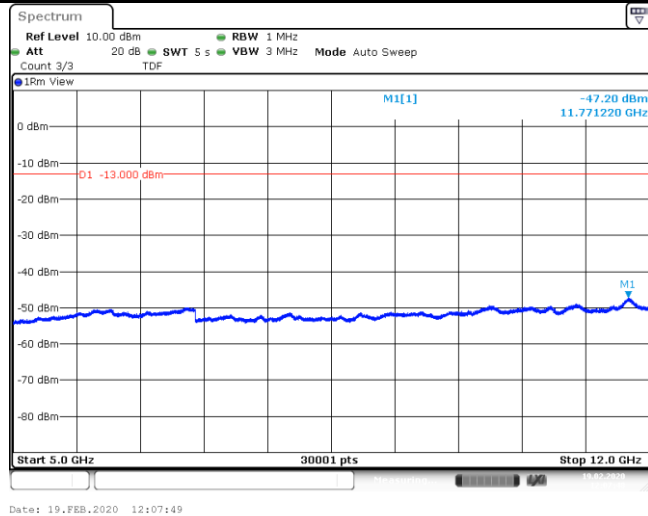
Band12_Stand-Alone_NaN_BPSK_23011_1@0_15kHz_5000_12000_5000~12000MHz@-47.28dBm_-13_PASS_



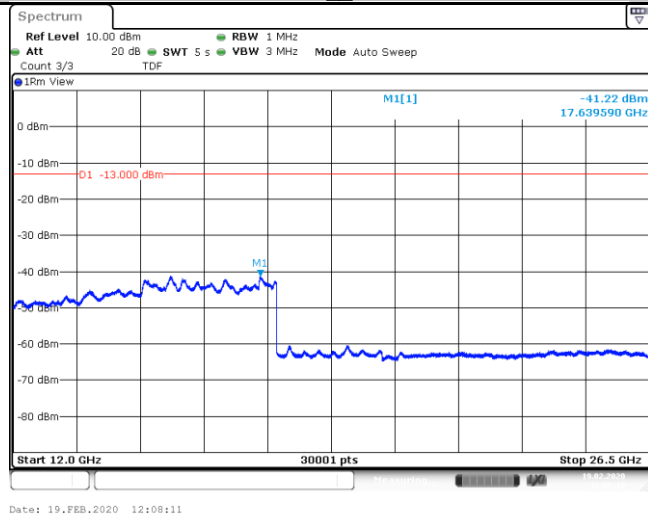
Band12_Stand-Alone_NaN_BPSK_23011_1@0_15kHz_12000_26500_12000~26500MHz@-41.3dBm_-13_PASS_



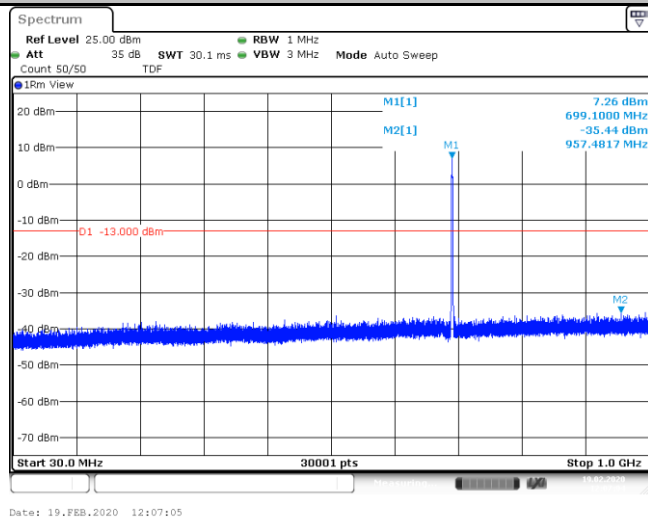
Band12_Stand-Alone_NaN_BPSK_23011_1@11_15kHz_5000_12000_5000~12000MHz@-47.2dBm_-13_PASS__



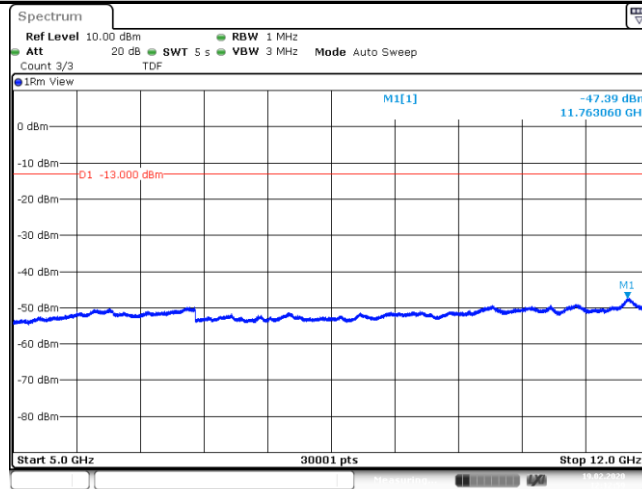
Band12_Stand-Alone_NaN_BPSK_23011_1@11_15kHz_12000_26500_12000~26500MHz@-41.22dBm_-13_PAS
S_



Band12_Stand-Alone_NaN_BPSK_23011_1@11_15kHz_30_1000_30~1000MHz@-35.44dBm_-13_PASS__

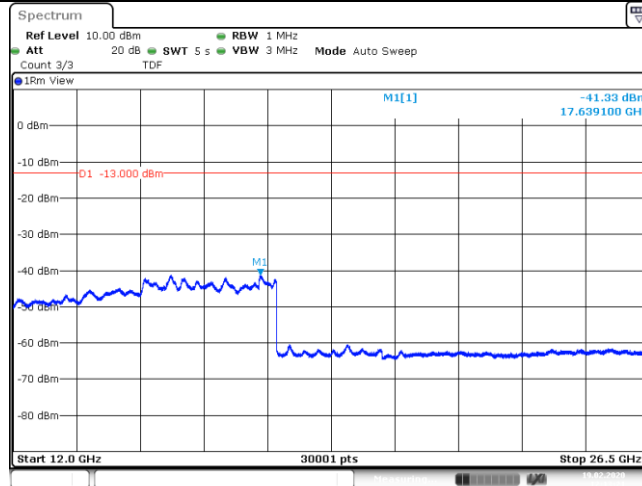


Band12_Stand-Alone_NaN_BPSK_23095_1@11_15kHz_5000_12000_5000~12000MHz@-47.39dBm_-13_PASS_



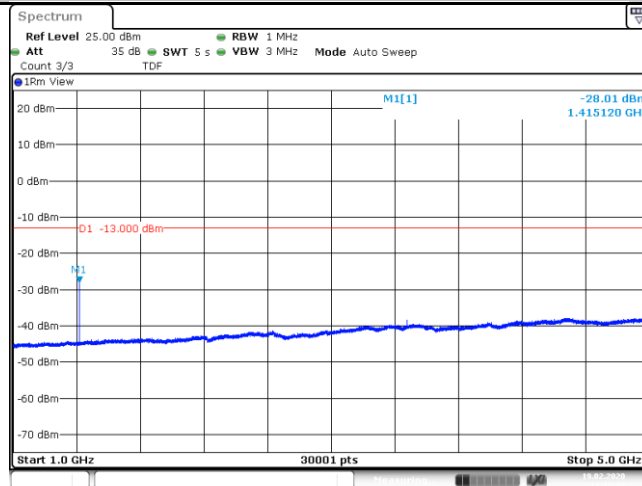
Date: 19.FEB.2020 12:13:00

Band12_Stand-Alone_NaN_BPSK_23095_1@11_15kHz_12000_26500_12000~26500MHz@-41.33dBm_-13_PAS
S_



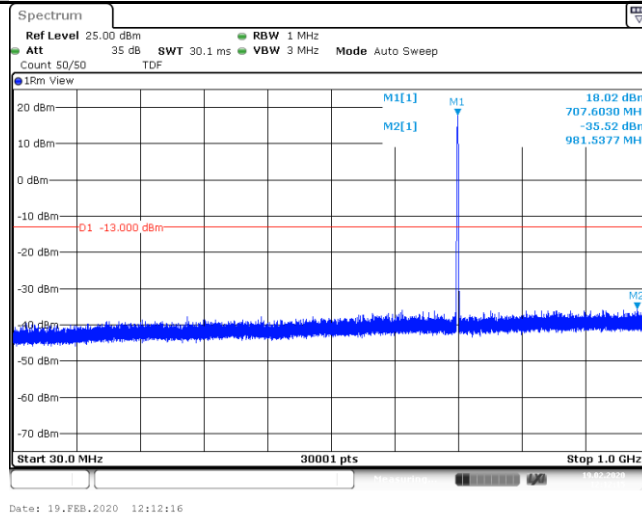
Date: 19.FEB.2020 12:13:22

Band12_Stand-Alone_NaN_BPSK_23095_1@11_15kHz_1000_5000_1000~5000MHz@-28.01dBm_-13_PASS_

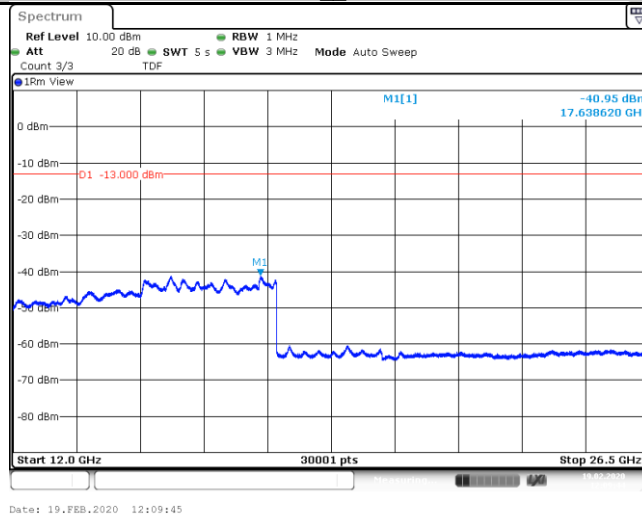


Date: 19.FEB.2020 12:12:38

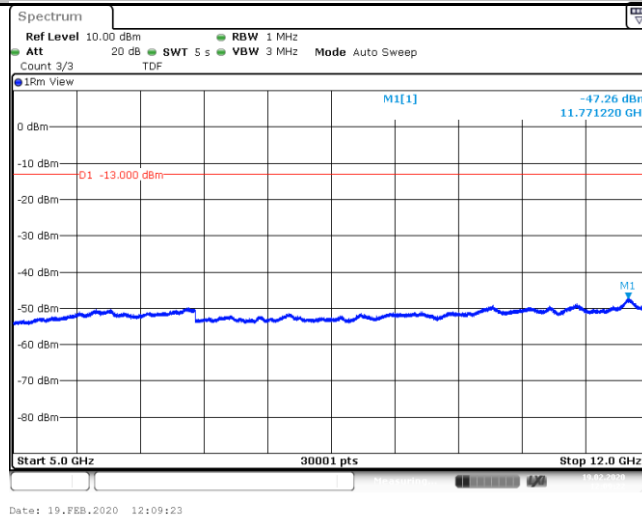
Band12_Stand-Alone_NaN_BPSK_23095_1@11_15kHz_30_1000_30~1000MHz@-35.52dBm_-13_PASS__



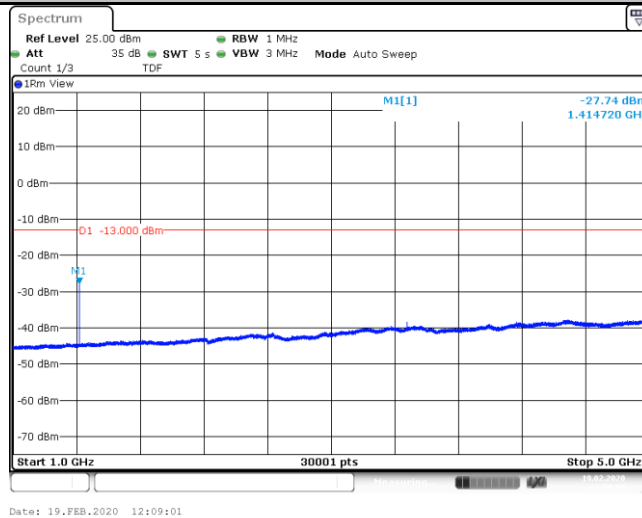
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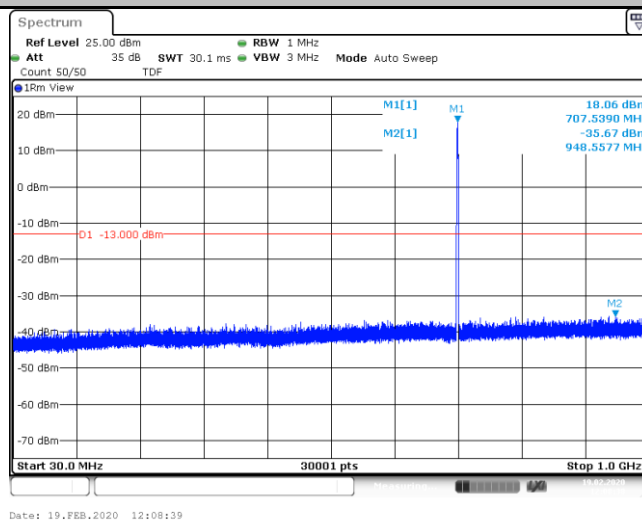
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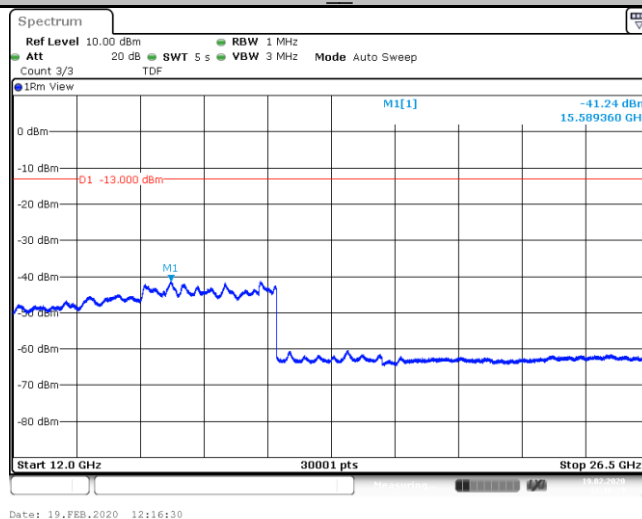
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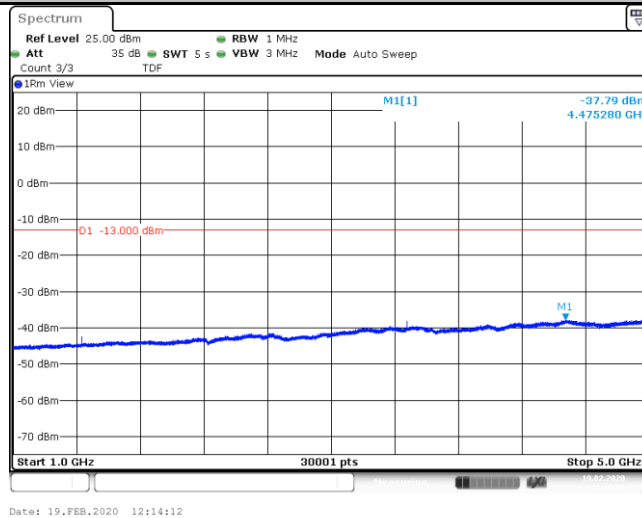
Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



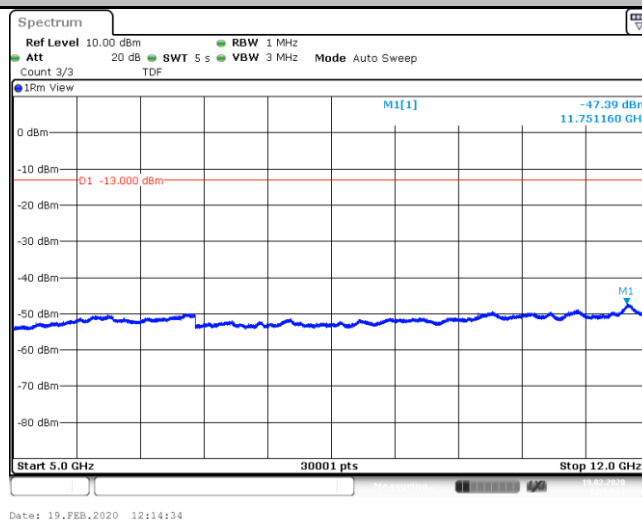
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_12000_26500_12000~26500MHz@-41.24dBm_-13_PAS
S



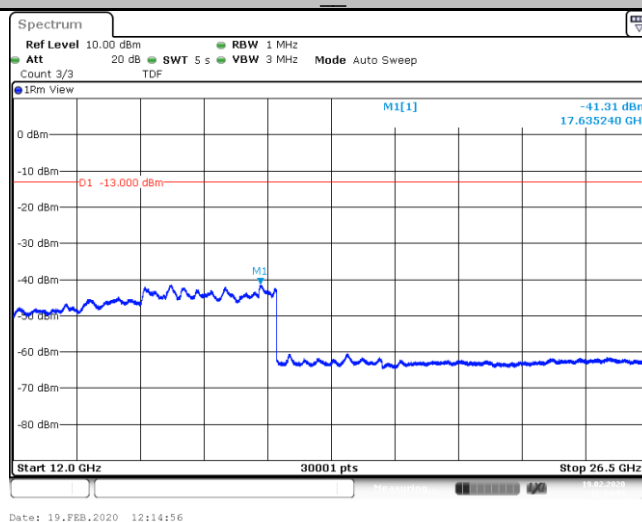
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS__



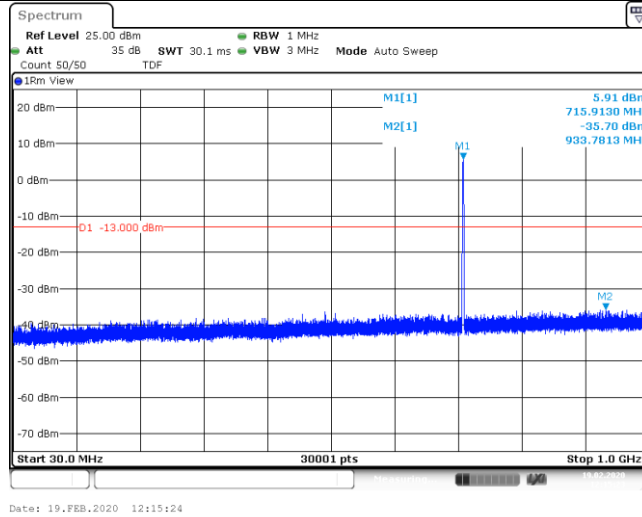
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_5000_12000_5000~12000MHz@-47.39dBm_-13_PASS__



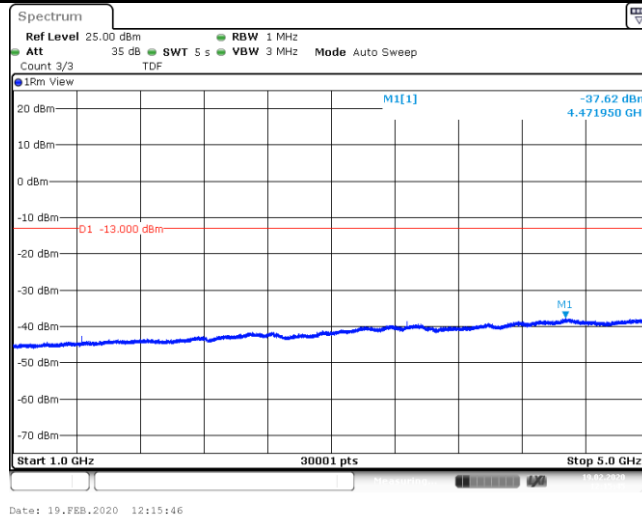
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_PASS



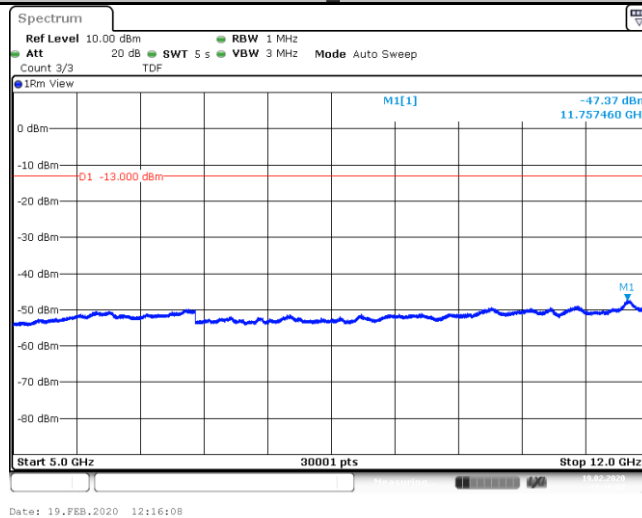
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_30_1000_30~1000MHz@-35.7dBm_-13_PASS__



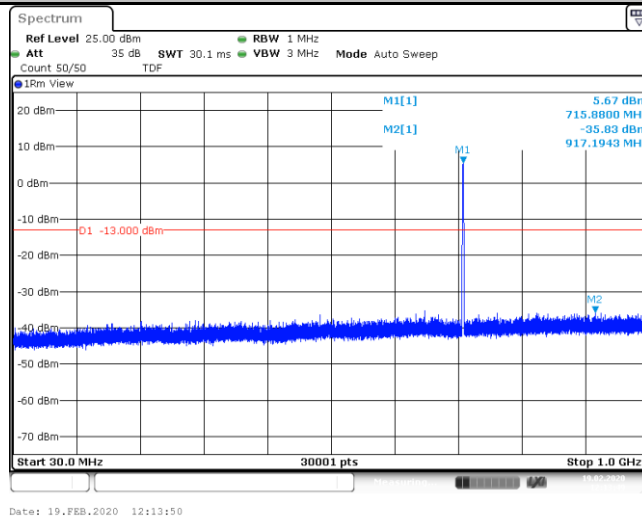
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_1000_5000_1000~5000MHz@-37.62dBm_-13_PASS_



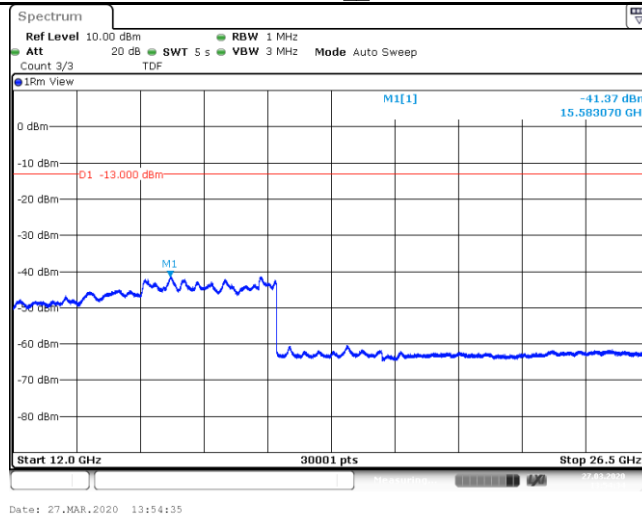
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_5000_12000_5000~12000MHz@-47.37dBm_-13_PASS_



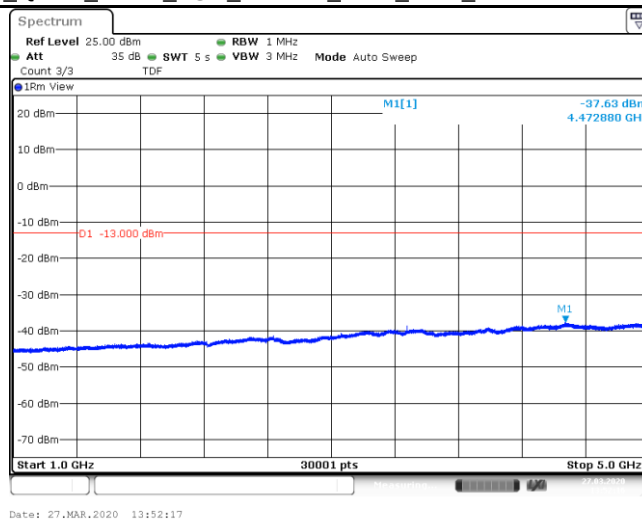
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_30_1000_30~1000MHz@-35.83dBm_-13_PASS__



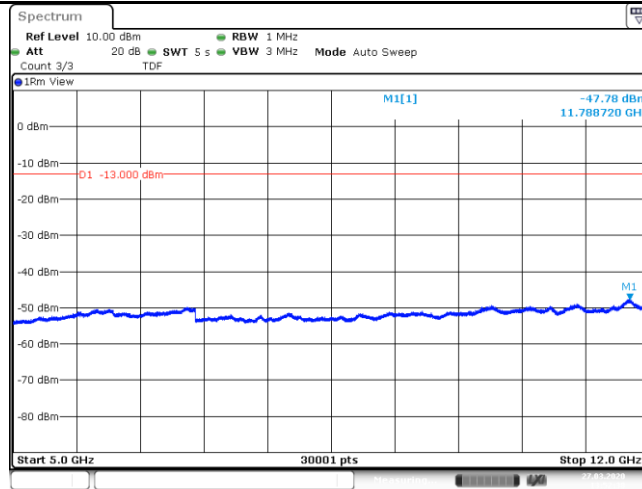
Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.37dBm_-13_P ASS__



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

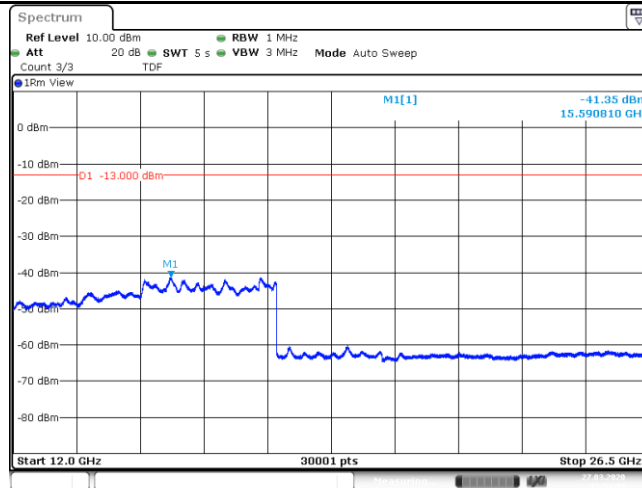


Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.78dBm_-13_PASS



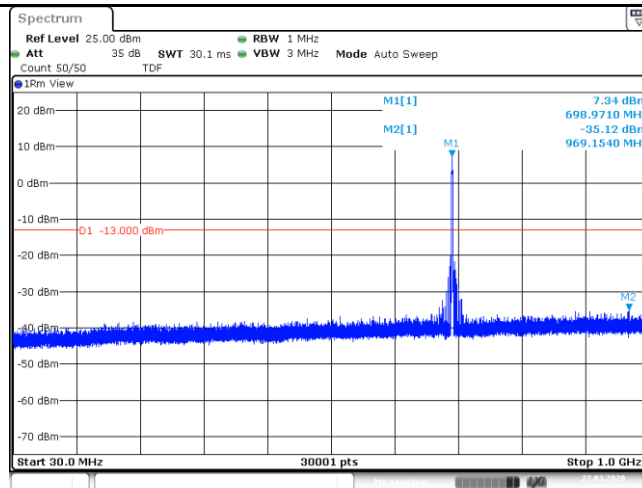
Date: 27.MAR.2020 13:52:38

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



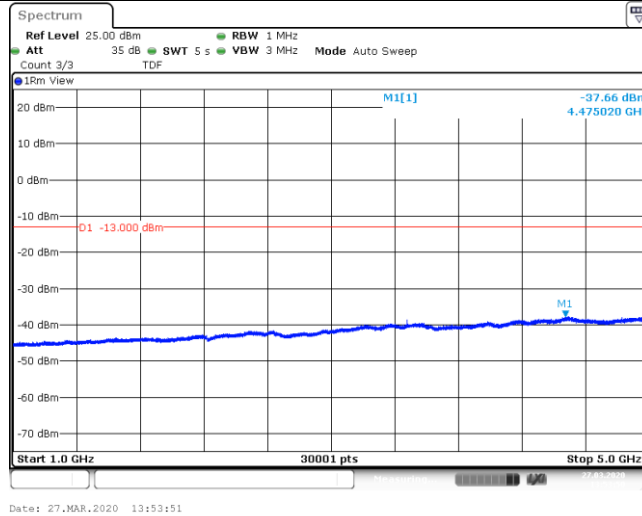
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Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_30_1000_30~1000MHz@-35.12dBm_-13_PASS

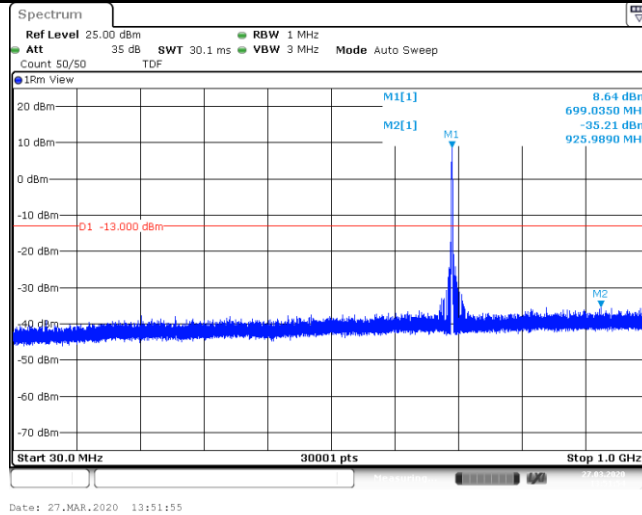


Date: 27.MAR.2020 13:53:29

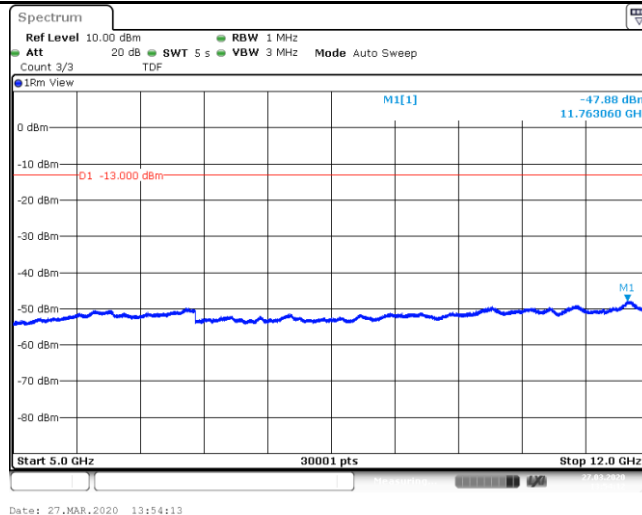
Band12_Stand-Alone_NaN_QPSK_23011_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.66dBm_-13_PASS_



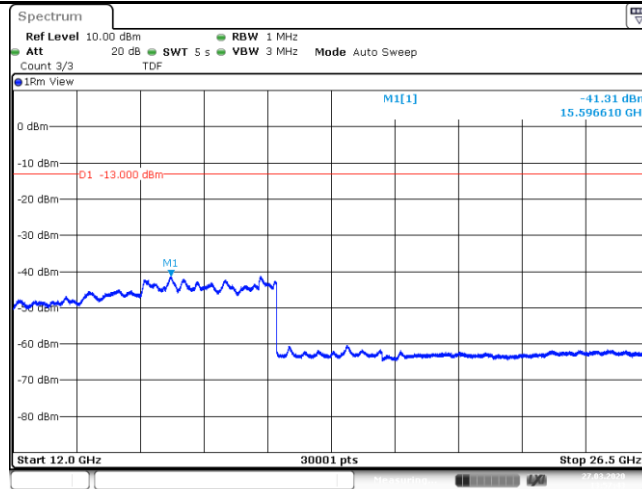
Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_30_1000_30~1000MHz@-35.21dBm_-13_PASS_



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

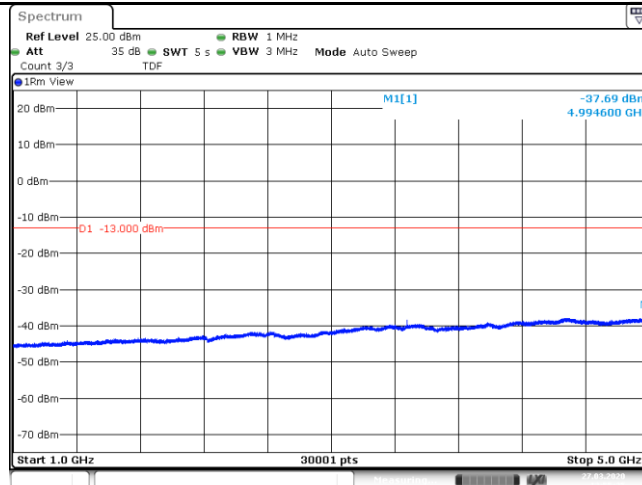


Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.31dBm_-13_P
ASS__



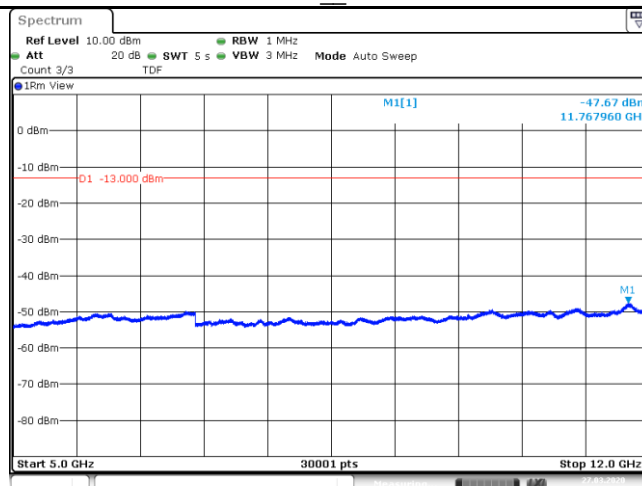
Date: 27.MAR.2020 13:57:43

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



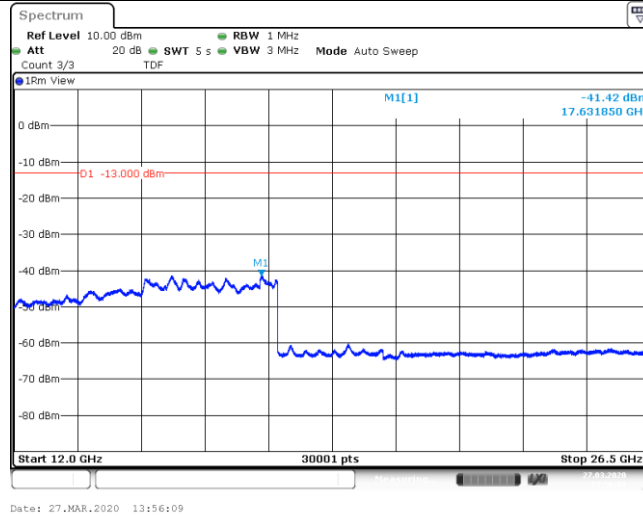
Date: 27.MAR.2020 13:55:25

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

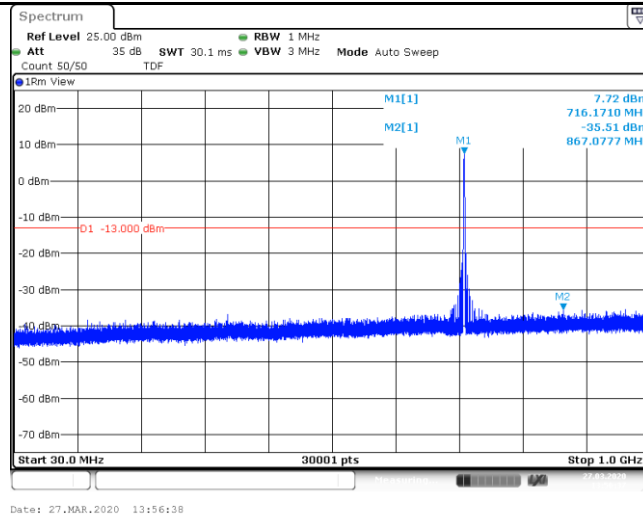


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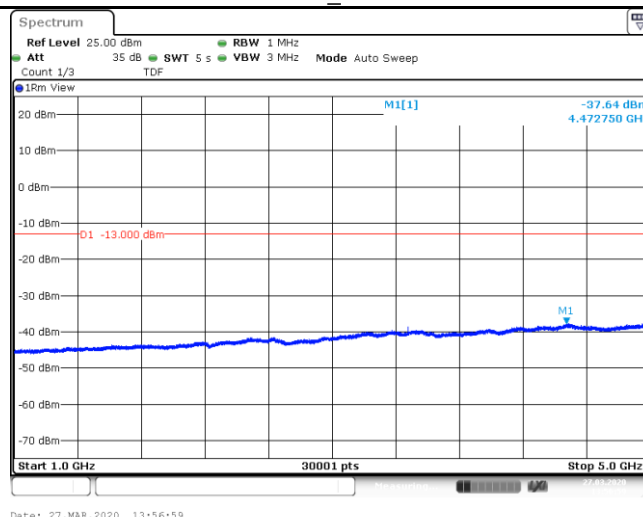
Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.42dBm_-13_PA SS__



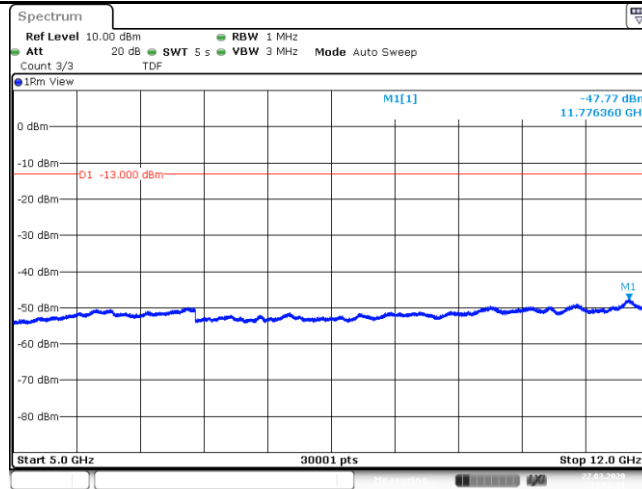
Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_30_1000_30~1000MHz@-35.51dBm_-13_PA SS__



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

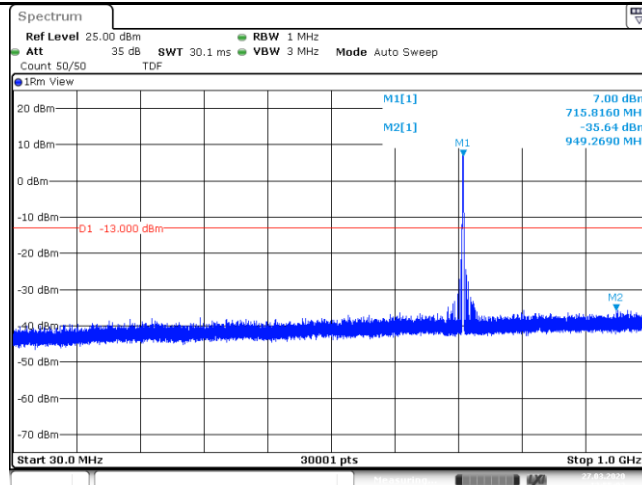


Band12_Stand-Alone_NaN_QPSK_23179_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.77dBm_-13_PAS S



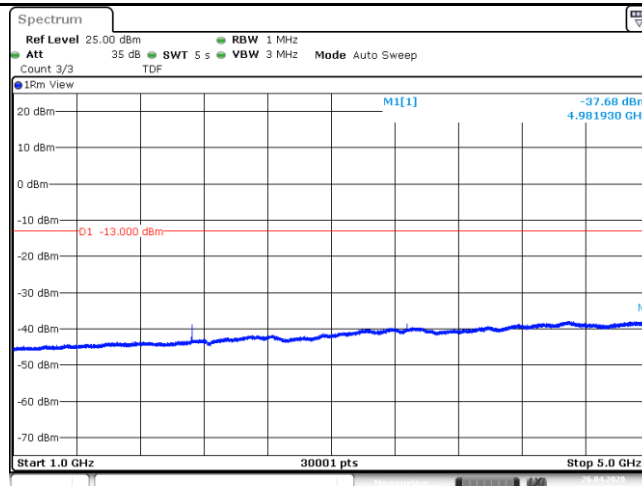
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Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_30_1000_30~1000MHz@-35.64dBm_-13_PASS



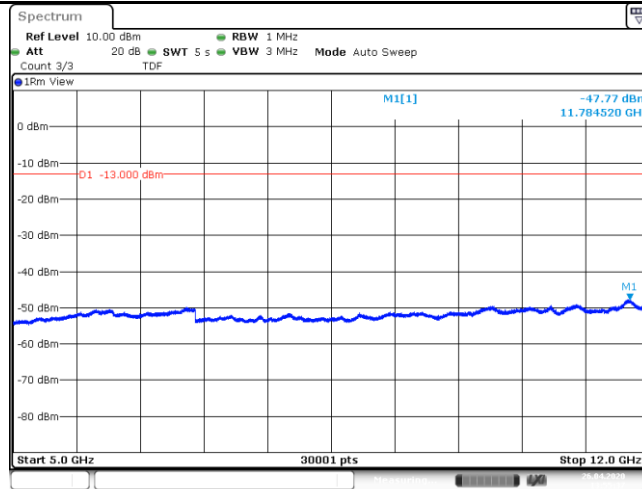
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Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.68dBm_-13_PASS



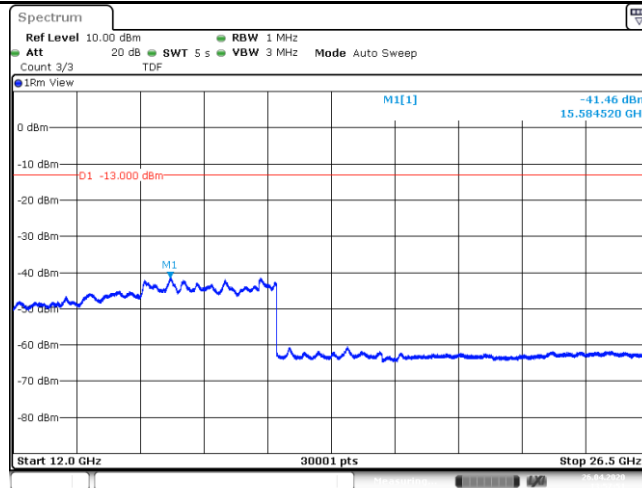
Date: 26.APR.2020 13:55:15

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



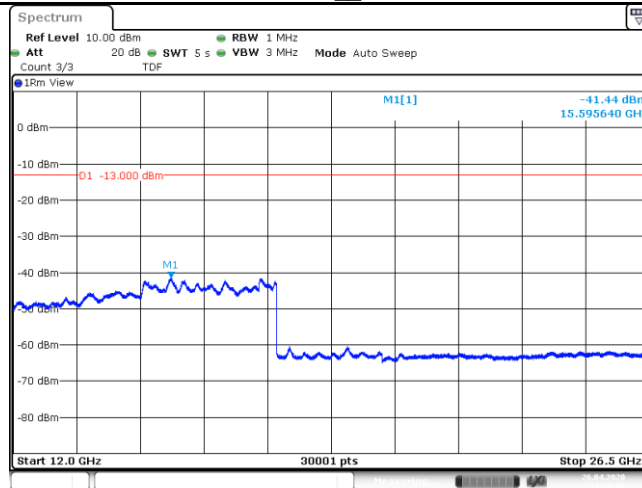
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Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.46dBm_-13_PASS



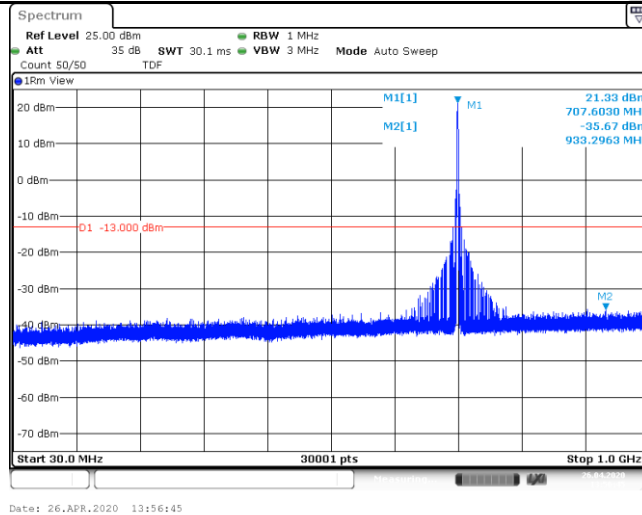
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Band12_Stand-Alone_NaN_QPSK_23095_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.44dBm_-13_PASS

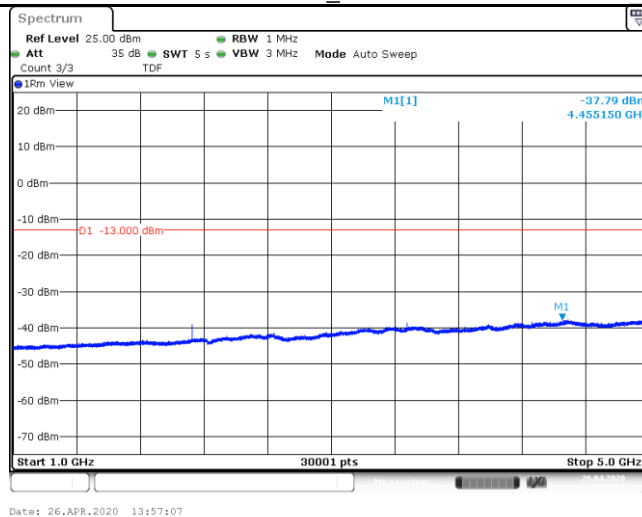


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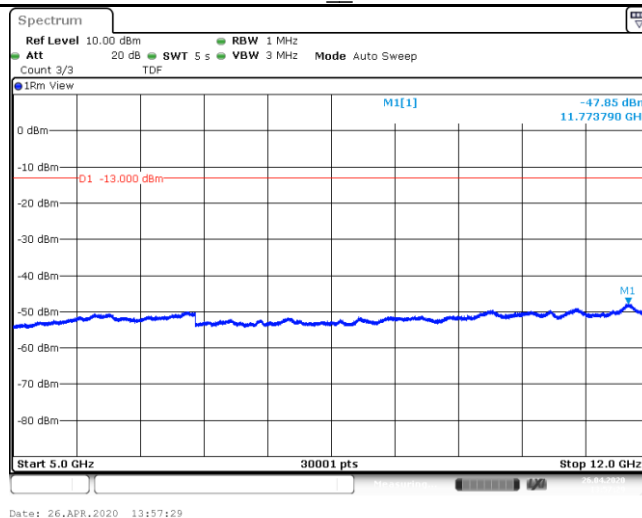
Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_30_1000_30~1000MHz@-35.67dBm_-13_PASS__



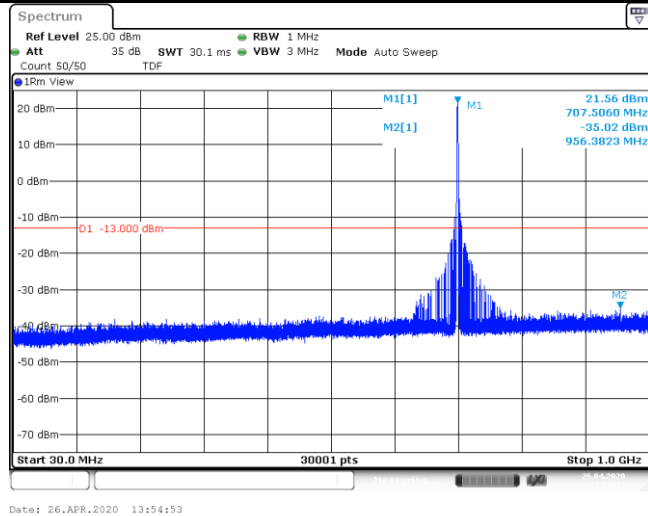
Band12_Stand-Alone_NaN_QPSK_23095_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PASS__



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

Appendix D
60356613 001
Page 43 of 43



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