

Appendix J: Test Results of Band 71 for NB-IoT operation

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Appendix J.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		
Band71	Stand-Alone	NaN	QPSK	133123	3@3	15kHz	6.36	6.35	0.004	3	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	6.70	6.69	0.005	3	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	6.66	6.65	0.005	3	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	15kHz	6.43	6.42	0.004	3	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@11	15kHz	6.39	6.38	0.004	3	PASS
Band71	Stand-Alone	NaN	QPSK	133124	1@0	15kHz	20.47	20.46	0.111	3	PASS
Band71	Stand-Alone	NaN	QPSK	133124	1@11	15kHz	20.41	20.4	0.110	3	PASS
Band71	Stand-Alone	NaN	QPSK	133124	3@3	15kHz	20.53	20.52	0.113	3	PASS
Band71	Stand-Alone	NaN	QPSK	133124	1@0	3.75kHz	20.18	20.17	0.104	3	PASS
Band71	Stand-Alone	NaN	QPSK	133124	1@47	3.75kHz	20.13	20.12	0.103	3	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	20.10	20.09	0.102	3	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	20.37	20.36	0.109	3	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	20.32	20.31	0.107	3	PASS
Band71	Stand-Alone	NaN	QPSK	133297	3@3	15kHz	20.45	20.44	0.111	3	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	20.06	20.05	0.101	3	PASS
Band71	Stand-Alone	NaN	QPSK	133470	1@0	15kHz	20.69	20.68	0.117	3	PASS
Band71	Stand-Alone	NaN	QPSK	133470	1@11	15kHz	20.64	20.63	0.116	3	PASS
Band71	Stand-Alone	NaN	QPSK	133470	1@0	3.75kHz	20.58	20.57	0.114	3	PASS
Band71	Stand-Alone	NaN	QPSK	133470	1@47	3.75kHz	20.69	20.68	0.117	3	PASS
Band71	Stand-Alone	NaN	QPSK	133470	3@3	15kHz	20.64	20.63	0.116	3	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@11	15kHz	6.61	6.6	0.005	3	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	6.65	6.64	0.005	3	PASS
Band71	Stand-Alone	NaN	QPSK	133471	3@3	15kHz	6.52	6.51	0.004	3	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	15kHz	6.67	6.66	0.005	3	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	6.60	6.59	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	3.75kHz	6.66	6.65	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	6.38	6.37	0.004	3	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@47	3.75kHz	6.62	6.61	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	6.36	6.35	0.004	3	PASS
Band71	Stand-Alone	NaN	BPSK	133123	3@3	15kHz	6.35	6.34	0.004	3	PASS
Band71	Stand-Alone	NaN	BPSK	133124	1@0	3.75kHz	20.22	20.21	0.105	3	PASS
Band71	Stand-Alone	NaN	BPSK	133124	1@47	3.75kHz	20.20	20.19	0.104	3	PASS
Band71	Stand-Alone	NaN	BPSK	133124	1@0	15kHz	20.40	20.39	0.109	3	PASS
Band71	Stand-Alone	NaN	BPSK	133124	1@11	15kHz	20.29	20.28	0.107	3	PASS
Band71	Stand-Alone	NaN	BPSK	133124	3@3	15kHz	20.53	20.52	0.113	3	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	20.41	20.4	0.110	3	PASS
Band71	Stand-Alone	NaN	BPSK	133297	3@3	15kHz	20.46	20.45	0.111	3	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	3.75kHz	20.08	20.07	0.102	3	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@47	3.75kHz	20.12	20.11	0.103	3	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	20.28	20.27	0.106	3	PASS
Band71	Stand-Alone	NaN	BPSK	133470	1@0	3.75kHz	20.50	20.49	0.112	3	PASS
Band71	Stand-Alone	NaN	BPSK	133470	1@47	3.75kHz	20.57	20.56	0.114	3	PASS
Band71	Stand-Alone	NaN	BPSK	133470	1@0	15kHz	19.37	19.36	0.086	3	PASS
Band71	Stand-Alone	NaN	BPSK	133470	1@11	15kHz	19.38	19.37	0.086	3	PASS
Band71	Stand-Alone	NaN	BPSK	133470	3@3	15kHz	20.73	20.72	0.118	3	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	6.55	6.54	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	3.75kHz	6.71	6.7	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@47	3.75kHz	6.70	6.69	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	6.58	6.57	0.005	3	PASS
Band71	Stand-Alone	NaN	BPSK	133471	3@3	15kHz	6.52	6.51	0.004	3	PASS

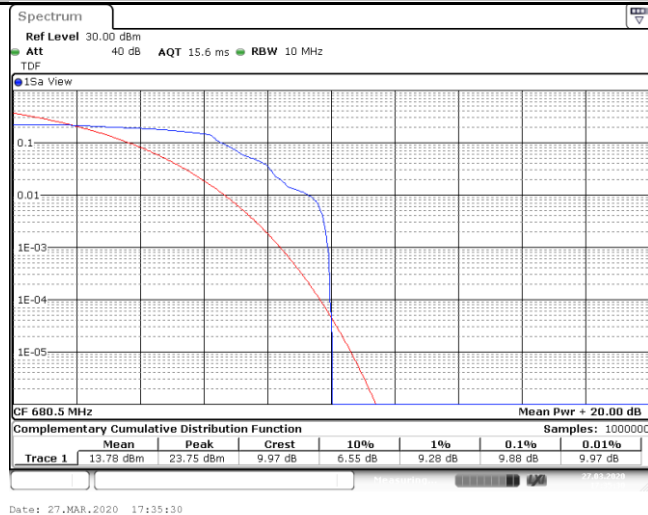
Appendix J.2: Peak-to-Average Ratio (CCDF) for NB

Test Result

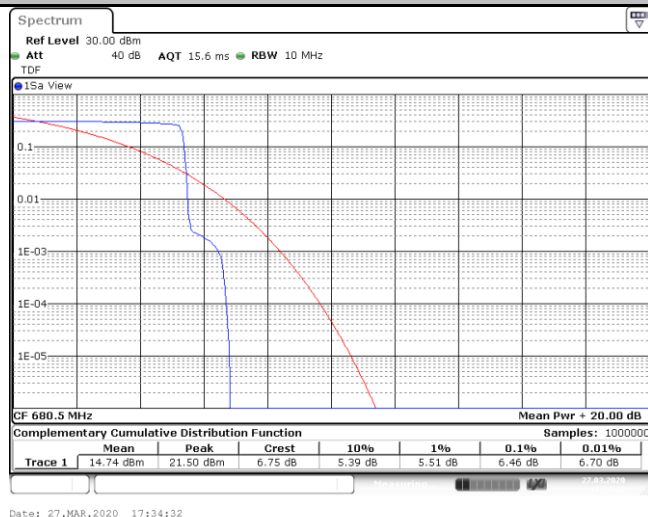
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band71	Stand-Alone	NaN	QPSK	133297	3@3	15kHz	9.88	<=13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	6.46	<=13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	4.41	<=13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	6.23	<=13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	9.39	<=13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	3@3	15kHz	9.59	<=13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	2.2	<=13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	1.45	<=13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@47	3.75kHz	1.97	<=13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	3.75kHz	1.97	<=13	PASS

Test Graphs

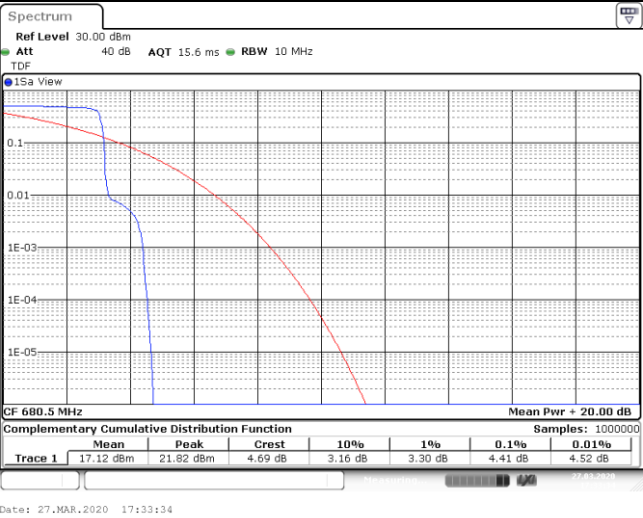
Band71_Stand-Alone_NaN_QPSK_133297_3@3_15kHz_9.88_<=13_PASS__



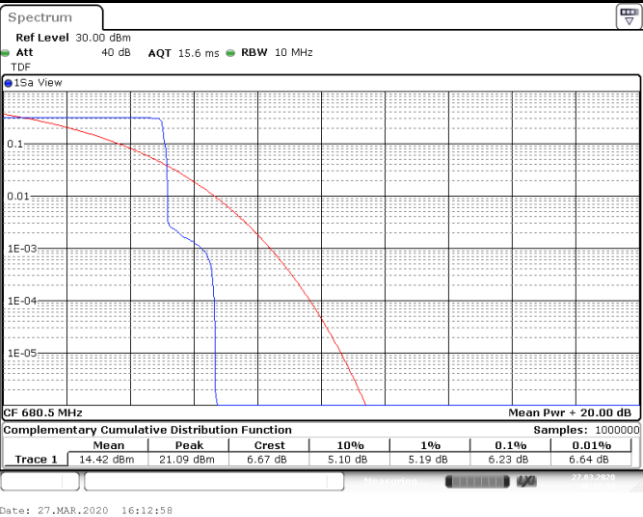
Band71_Stand-Alone_NaN_QPSK_133297_1@11_15kHz_6.46_<=13_PASS__



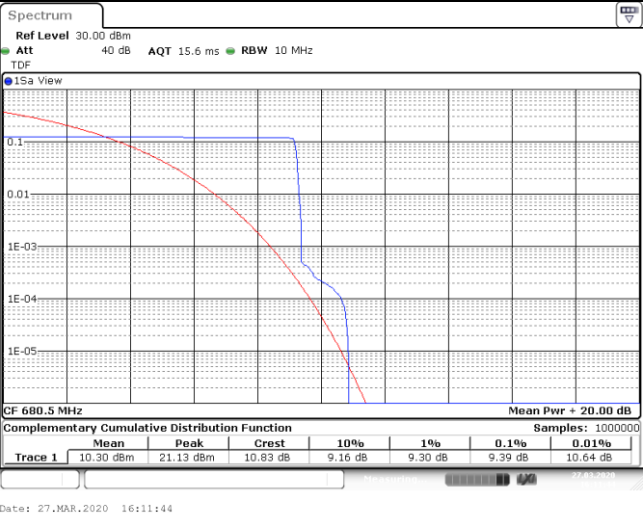
Band71_Stand-Alone_NaN_QPSK_133297_1@0_15kHz_4.41_<=13_PASS__



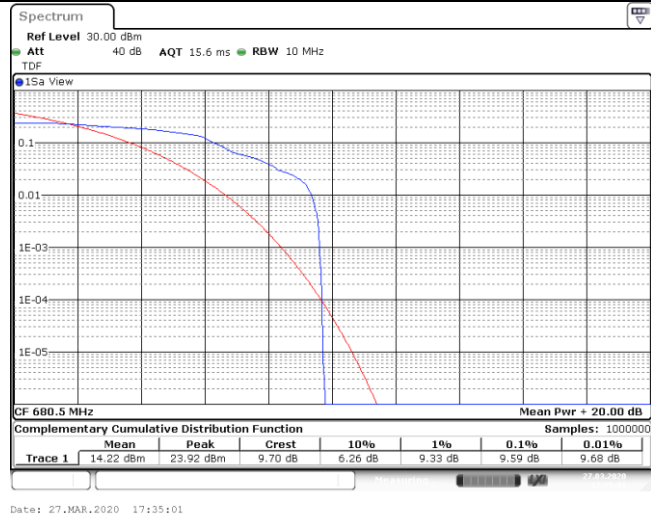
Band71_Stand-Alone_NaN_QPSK_133297_1@47_3.75kHz_6.23_<=13_PASS__



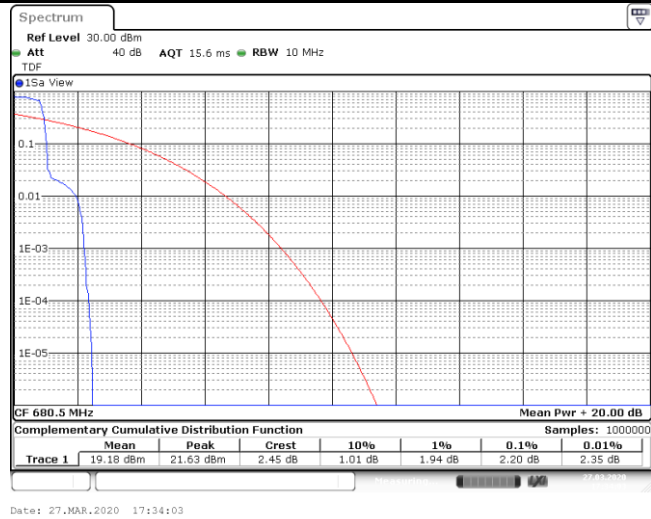
Band71_Stand-Alone_NaN_QPSK_133297_1@0_3.75kHz_9.39_<=13_PASS__



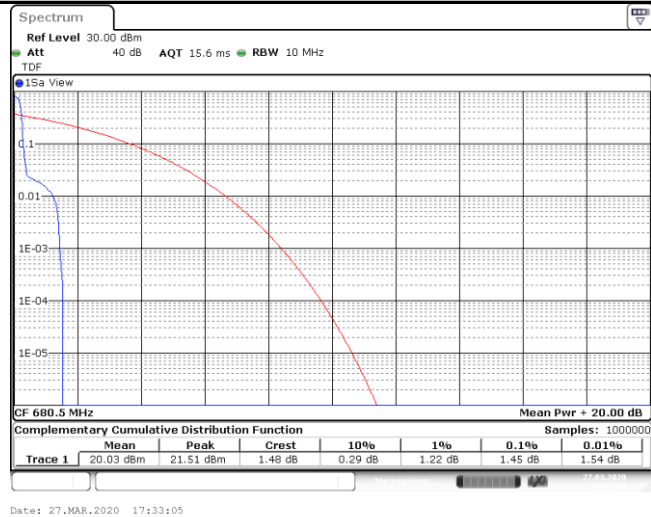
Band71_Stand-Alone_NaN_BPSK_133297_3@3_15kHz_9.59_<=13_PASS__



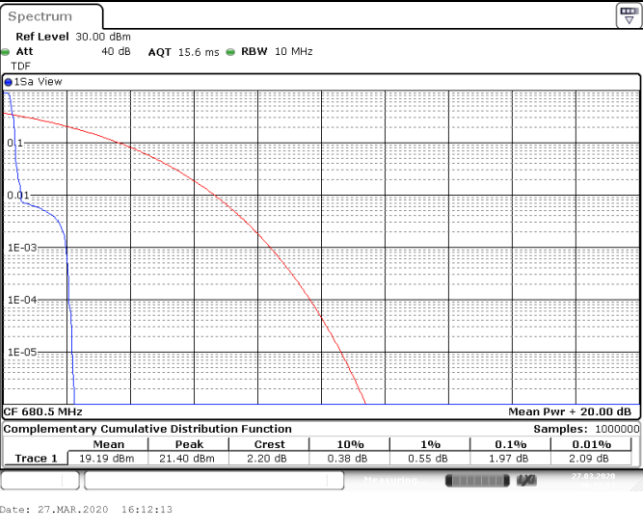
Band71_Stand-Alone_NaN_BPSK_133297_1@11_15kHz_2.2_<=13_PASS__



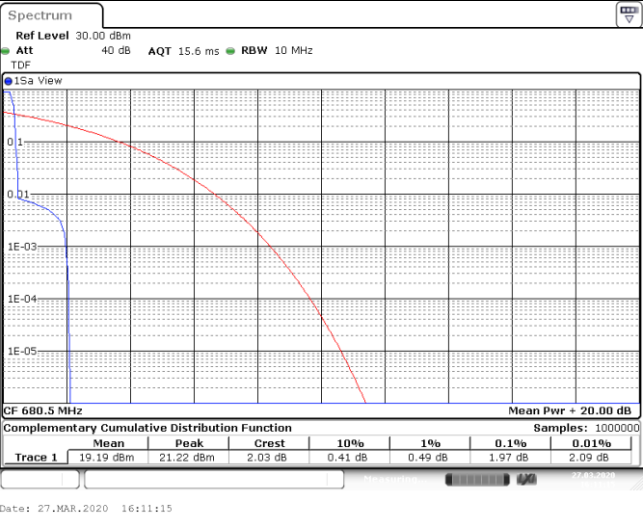
Band71_Stand-Alone_NaN_BPSK_133297_1@0_15kHz_1.45_<=13_PASS__



Band71_Stand-Alone_NaN_BPSK_133297_1@47_3.75kHz_1.97_<=13_PASS__



Band71_Stand-Alone_NaN_BPSK_133297_1@0_3.75kHz_1.97_<=13_PASS__

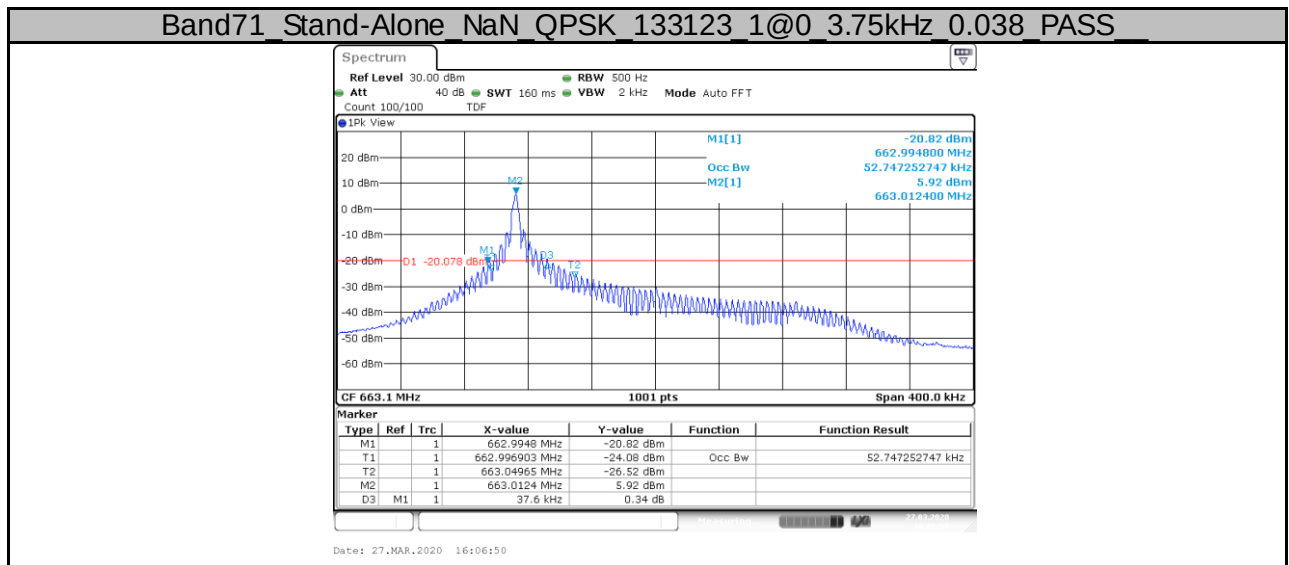


Appendix J.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

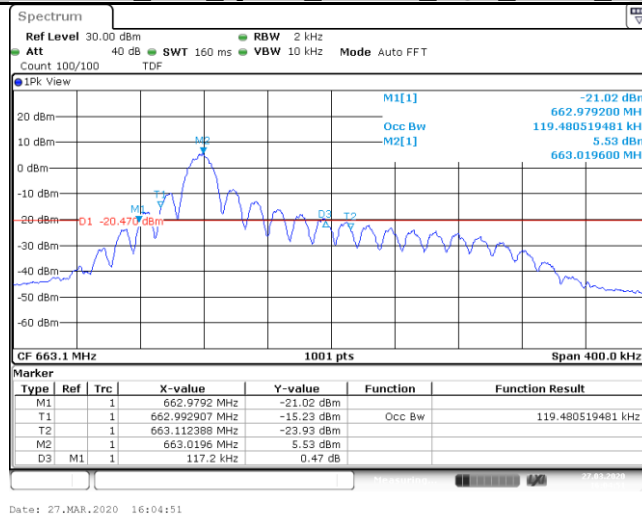
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	0.038	0.053	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	15kHz	0.117	0.119	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	0.251	0.184	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	0.038	0.052	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	0.117	0.119	PASS
Band71	Stand-Alone	NaN	QPSK	133297	12@0	15kHz	0.250	0.184	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	0.038	0.053	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	15kHz	0.117	0.119	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	0.251	0.184	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	3.75kHz	0.032	0.054	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	0.106	0.128	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	3.75kHz	0.032	0.054	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	0.106	0.126	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	3.75kHz	0.032	0.054	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	0.106	0.128	PASS

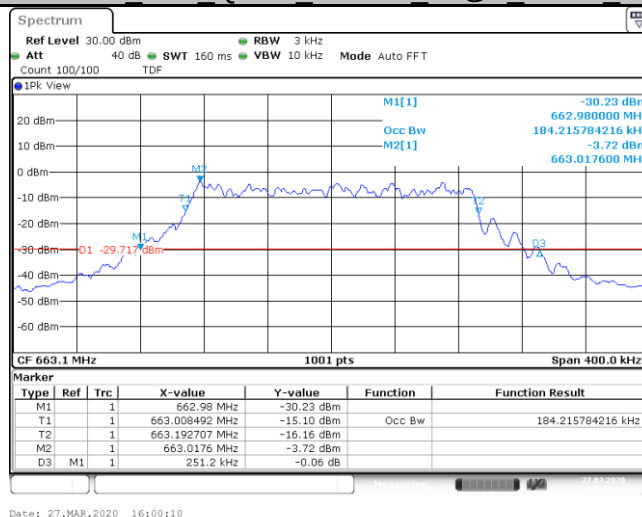
Test Graphs



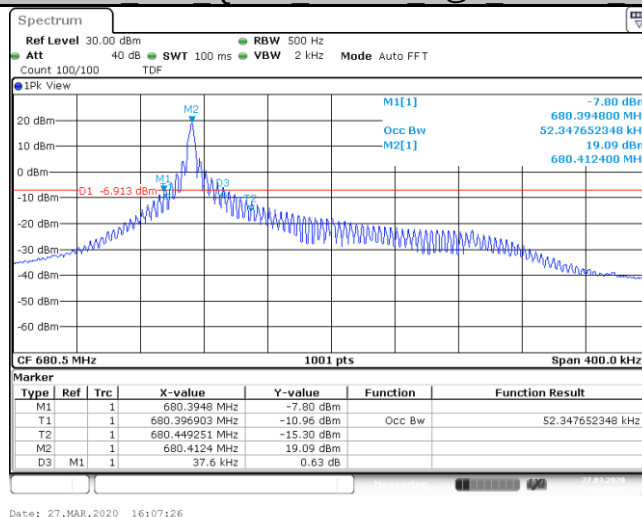
Band71 Stand-Alone NaN QPSK 133123 1@0 15kHz 0.117 PASS



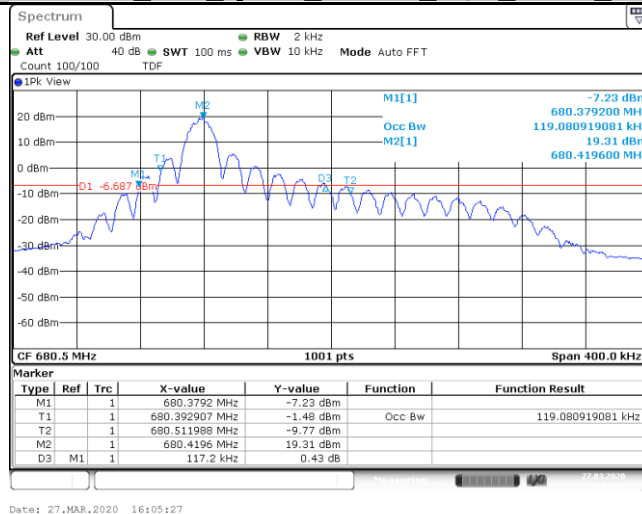
Band71 Stand-Alone NaN QPSK 133123 12@0 15kHz 0.251 PASS



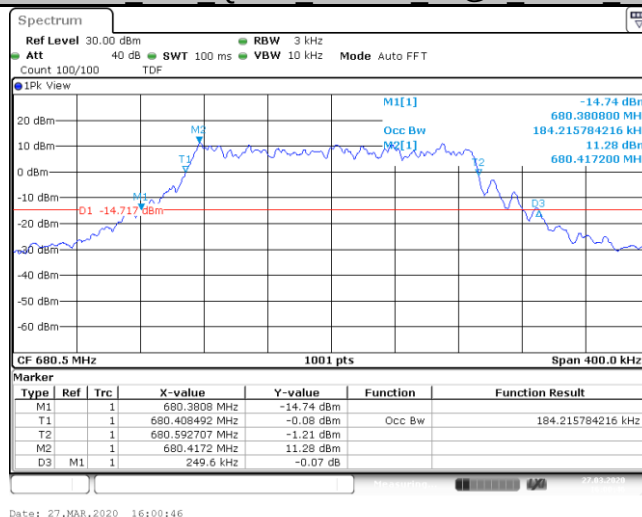
Band71 Stand-Alone NaN QPSK 133297 1@0 3.75kHz 0.038 PASS



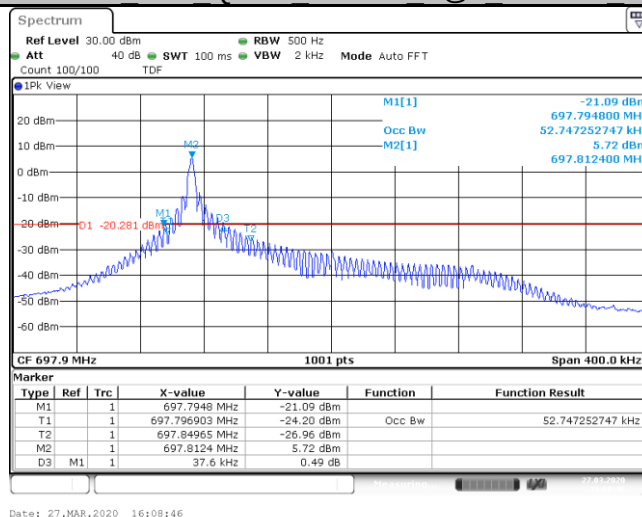
Band71 Stand-Alone NaN QPSK 133297 1@0 15kHz 0.117 PASS



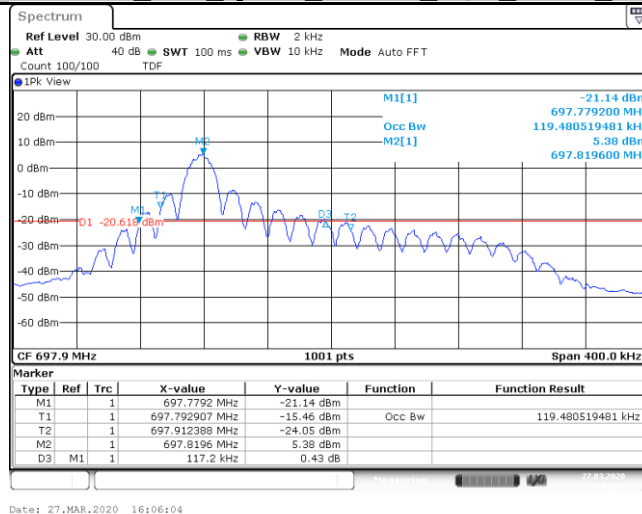
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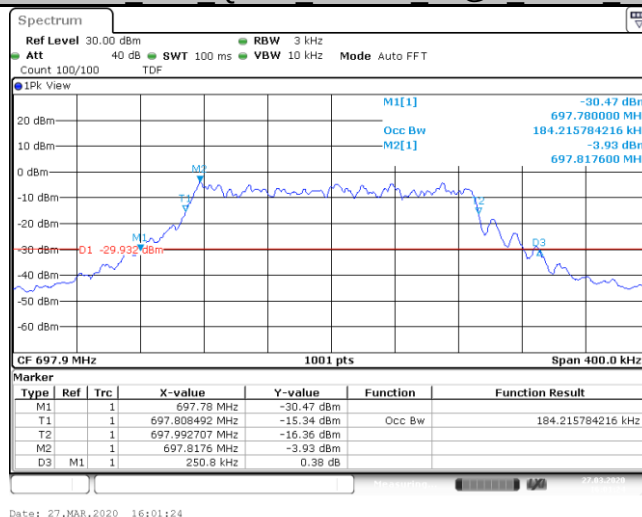
Band71 Stand-Alone NaN QPSK 133471 1@0 3.75kHz 0.038 PASS



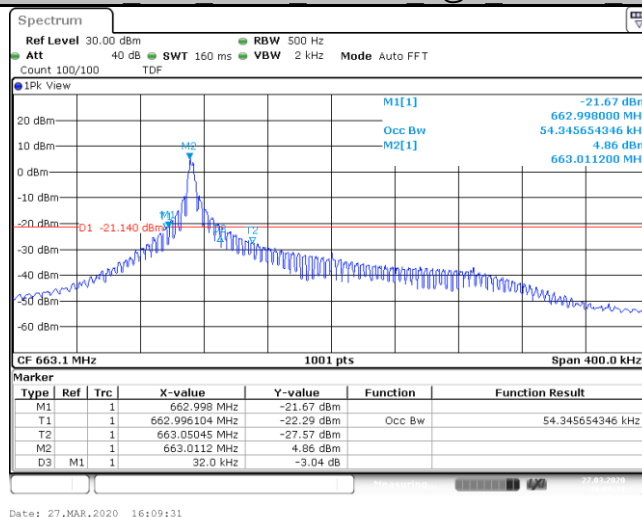
Band71 Stand-Alone NaN QPSK 133471 1@0 15kHz 0.117 PASS



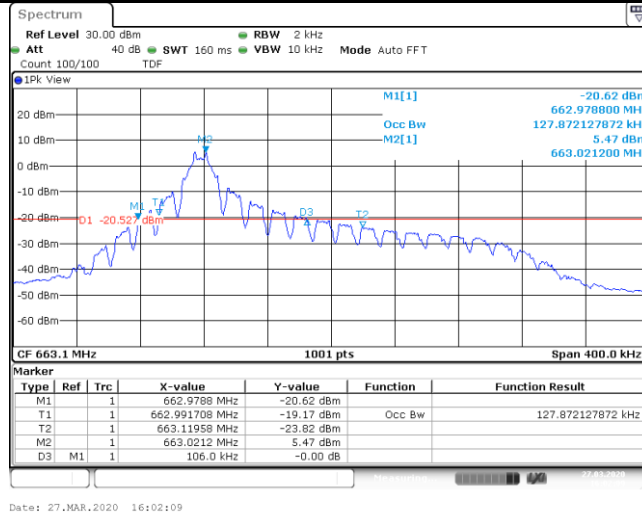
Band71 Stand-Alone NaN QPSK 133471 12@0 15kHz 0.251 PASS



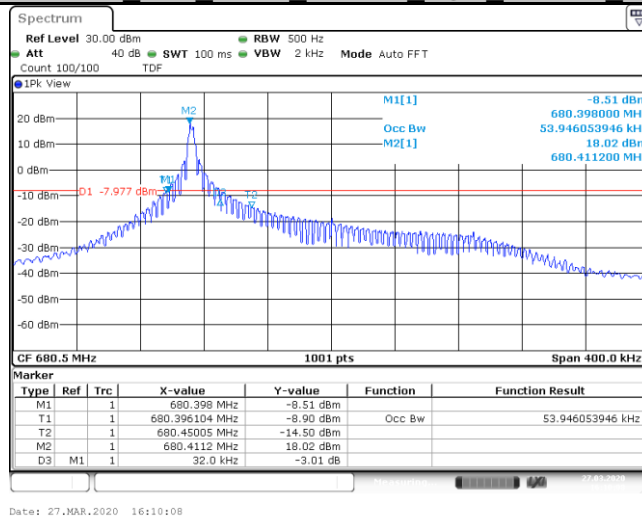
Band71 Stand-Alone NaN BPSK 133123 1@0 3.75kHz 0.032 PASS



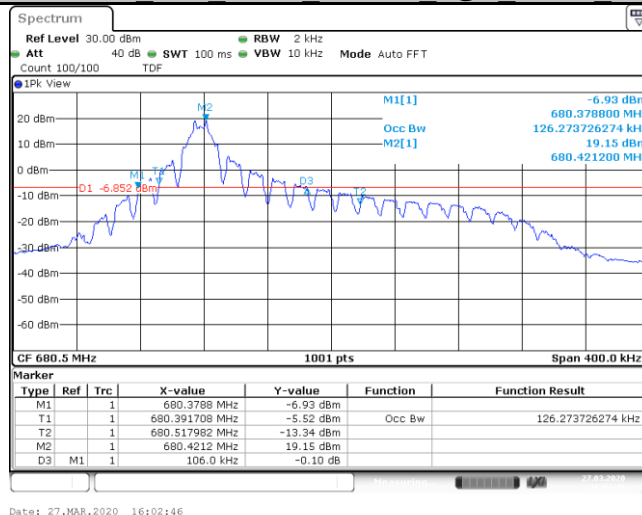
Band71 Stand-Alone NaN BPSK 133123 1@0 15kHz 0.106 PASS



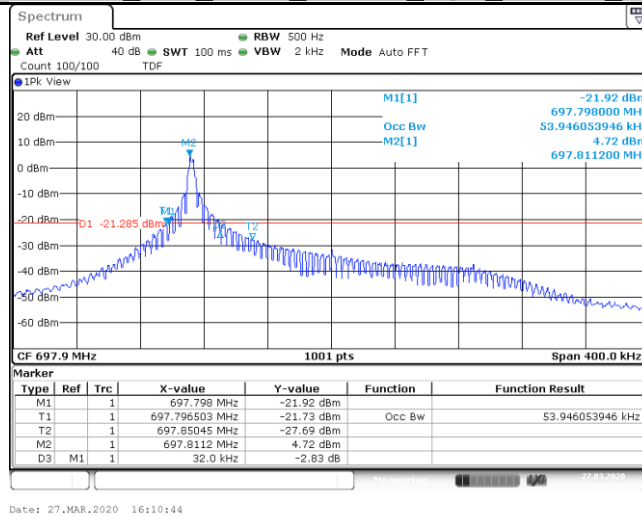
Band71 Stand-Alone NaN BPSK 133297 1@0 3.75kHz 0.032 PASS



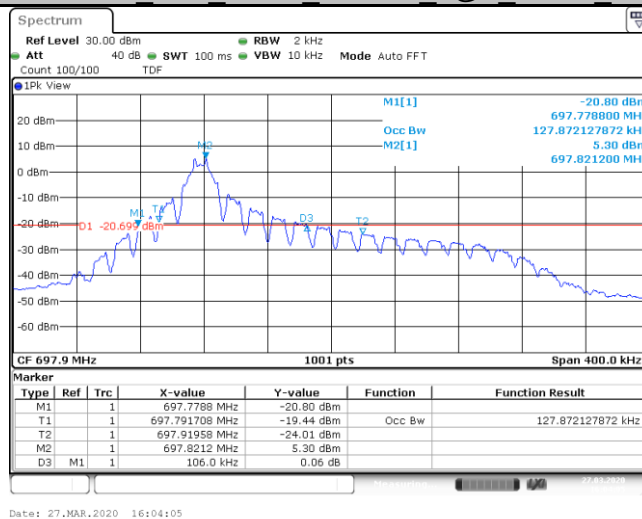
Band71 Stand-Alone NaN BPSK 133297 1@0 15kHz 0.106 PASS



Band71 Stand-Alone NaN BPSK 133471 1@0 3.75kHz 0.032 PASS



Band71 Stand-Alone NaN BPSK 133471 1@0 15kHz 0.106 PASS

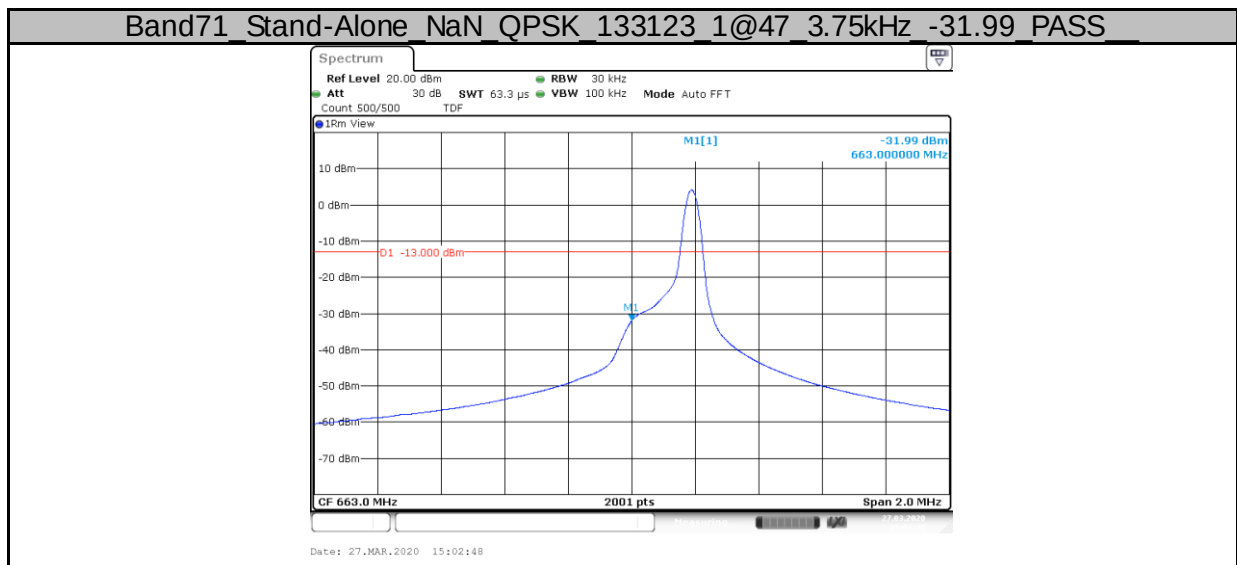


Appendix J.4: Band Edge for NB

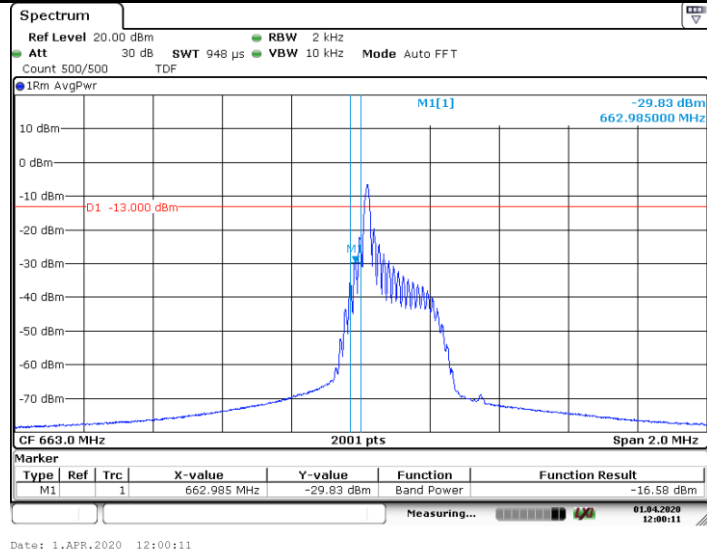
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	-31.99	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	15kHz	-16.58	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@11	15kHz	-29.37	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	-21.56	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	-17.66	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	-20.68	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	-33.92	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	-17.48	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@11	15kHz	-16.58	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	15kHz	-29.88	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	3.75kHz	-16.39	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@47	3.75kHz	-31.60	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	-14.89	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	-27.40	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	-14.94	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	3.75kHz	-31.76	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@47	3.75kHz	-16.42	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	-27.59	PASS

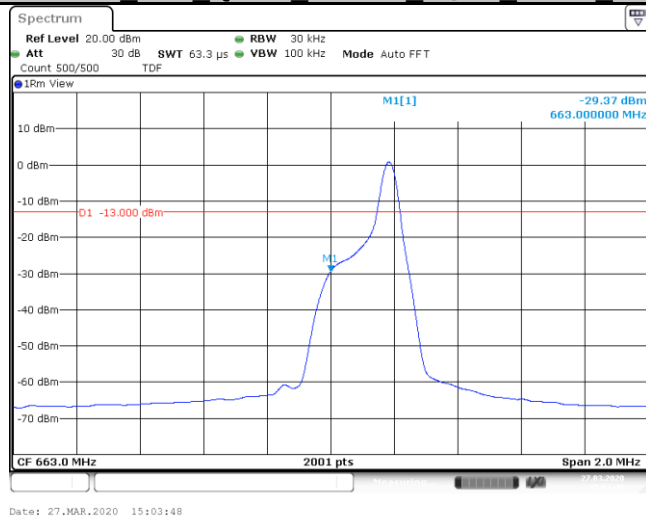
Test Graphs



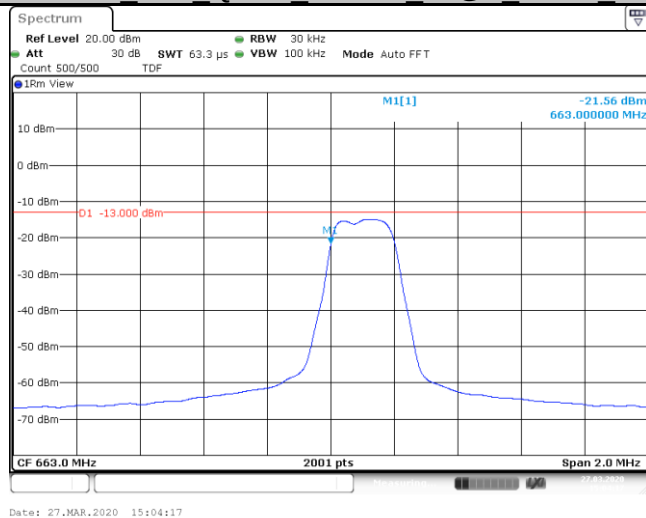
Band71 Stand-Alone NaN QPSK 133123 1@0 15kHz -16.58 PASS



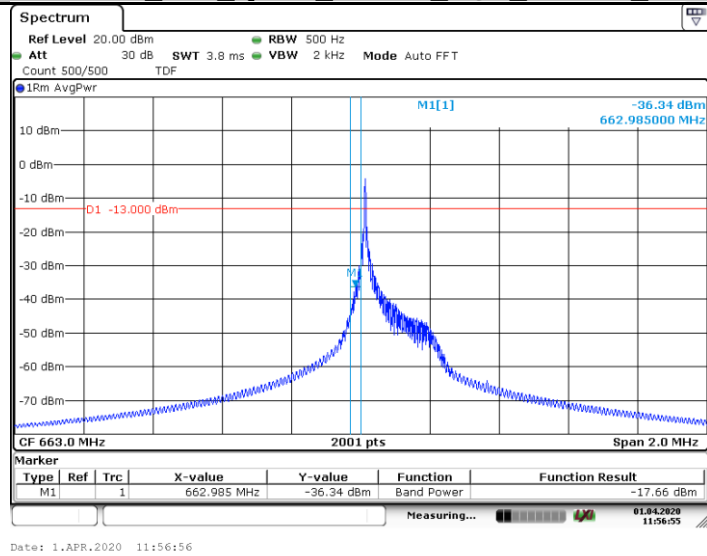
Band71 Stand-Alone NaN QPSK 133123 1@11 15kHz -29.37 PASS



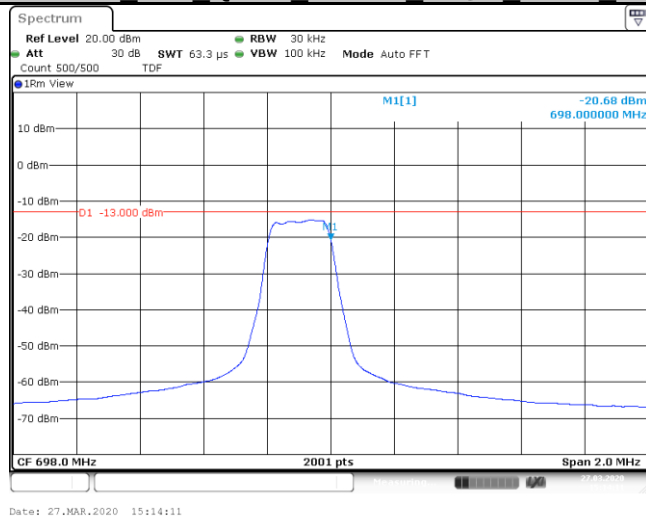
Band71 Stand-Alone NaN QPSK 133123 12@0 15kHz -21.56 PASS



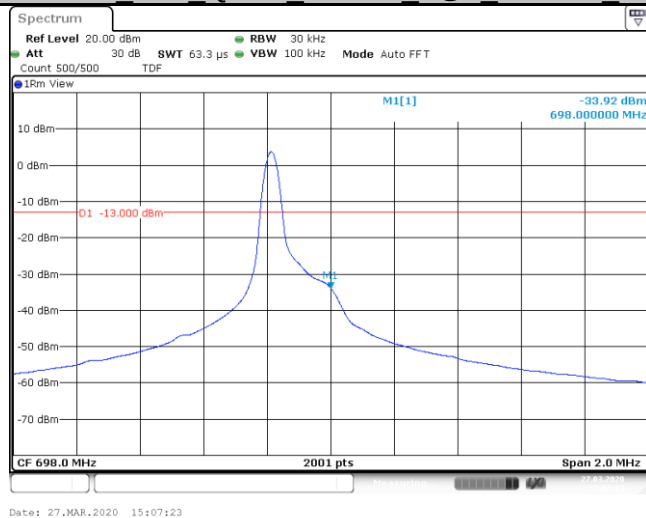
Band71 Stand-Alone NaN QPSK 133123 1@0 3.75kHz -17.66 PASS



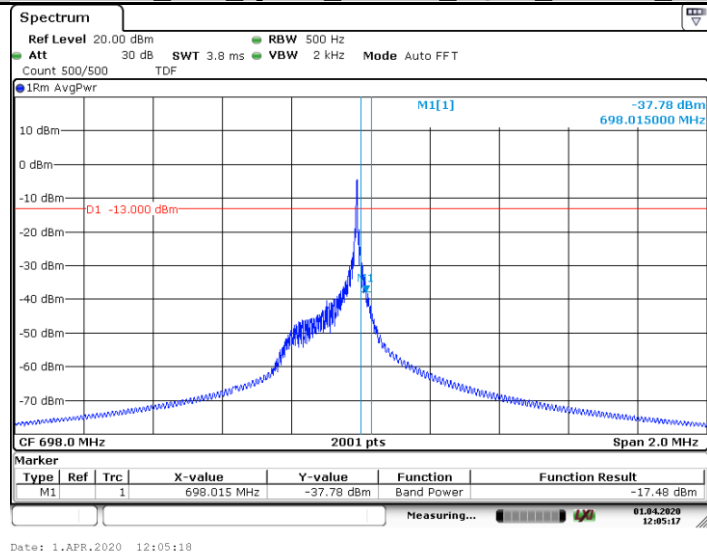
Band71 Stand-Alone NaN QPSK 133471 12@0 15kHz -20.68 PASS



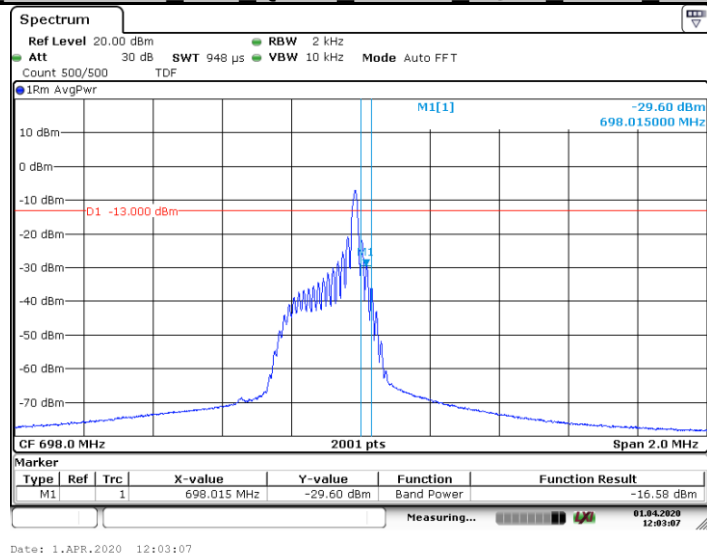
Band71 Stand-Alone NaN QPSK 133471 1@0 3.75kHz -33.92 PASS



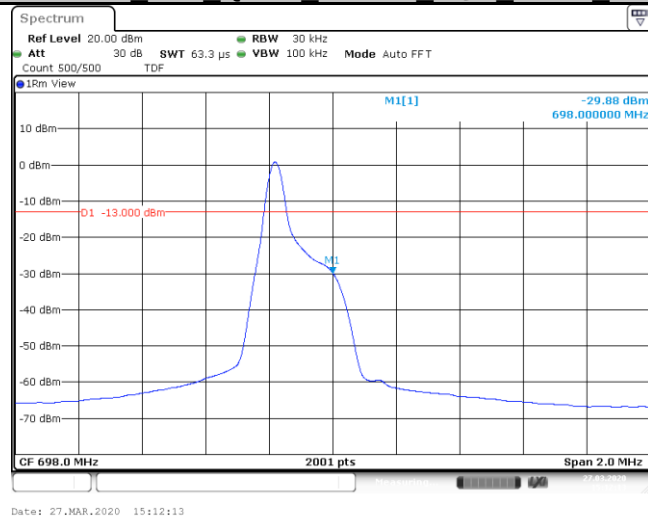
Band71 Stand-Alone NaN QPSK 133471 1@47 3.75kHz -17.48 PASS



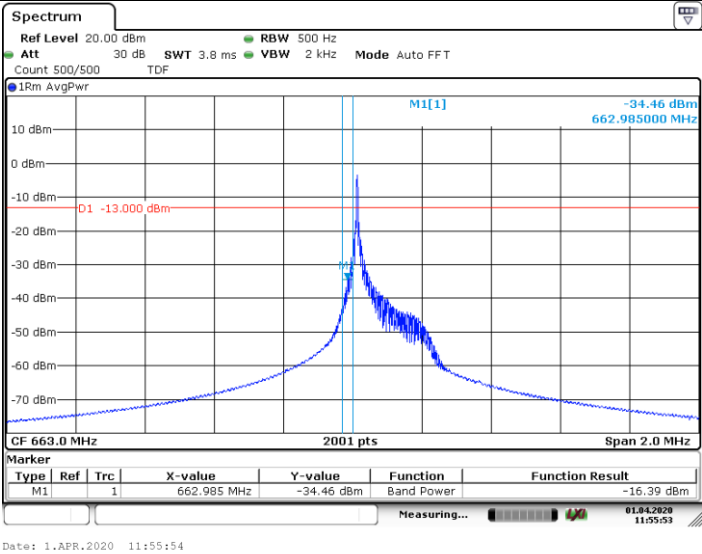
Band71 Stand-Alone NaN QPSK 133471 1@11 15kHz -16.58 PASS



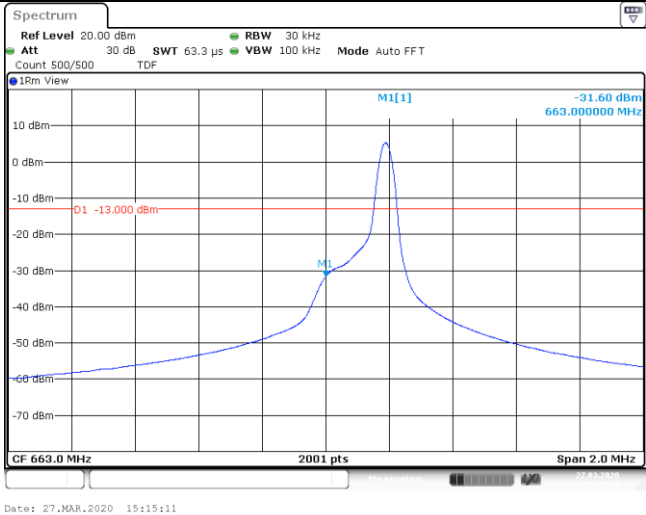
Band71 Stand-Alone NaN QPSK 133471 1@0 15kHz -29.88 PASS



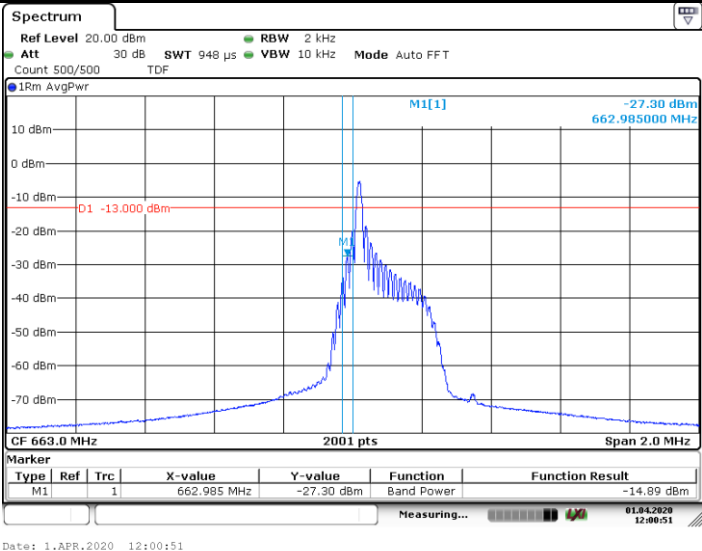
Band71 Stand-Alone NaN BPSK 133123 1@0 3.75kHz -16.39 PASS



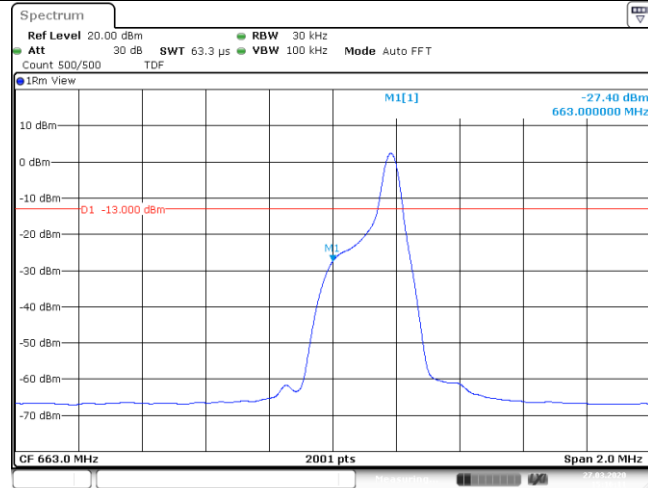
Band71 Stand-Alone NaN BPSK 133123 1@47 3.75kHz -31.60 PASS



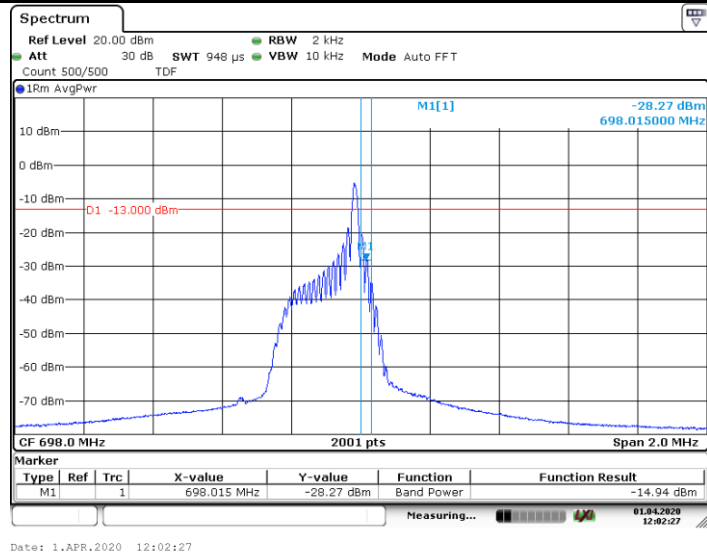
Band71 Stand-Alone NaN BPSK 133123 1@0 15kHz -14.89 PASS



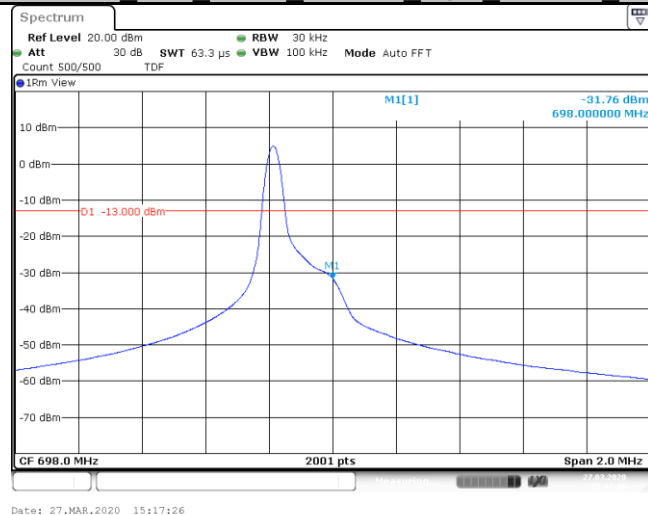
Band71 Stand-Alone NaN BPSK 133123 1@11 15kHz -27.40 PASS



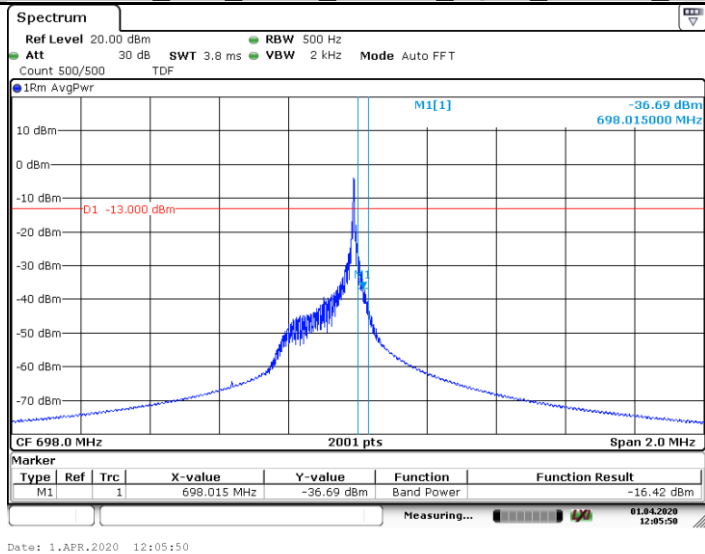
Band71 Stand-Alone NaN BPSK 133471 1@11 15kHz -14.94 PASS



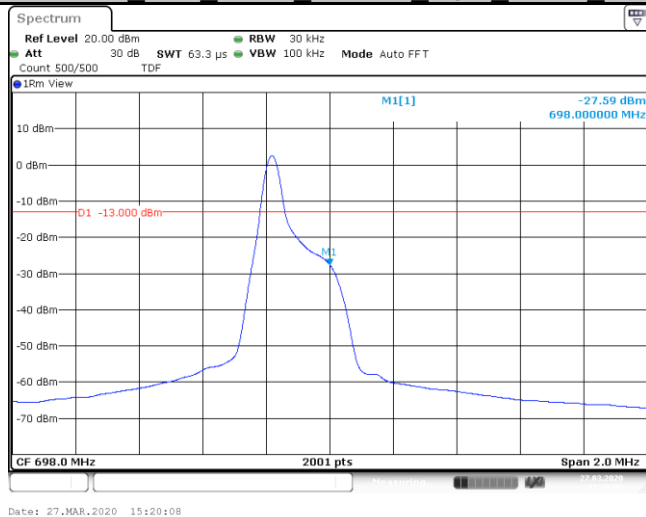
Band71 Stand-Alone NaN BPSK 133471 1@0 3.75kHz -31.76 PASS



Band71 Stand-Alone NaN BPSK 133471 1@47 3.75kHz -16.42 PASS



Band71 Stand-Alone NaN BPSK 133471 1@0 15kHz -27.59 PASS



Appendix J.5: Conducted Spurious Emission for NB

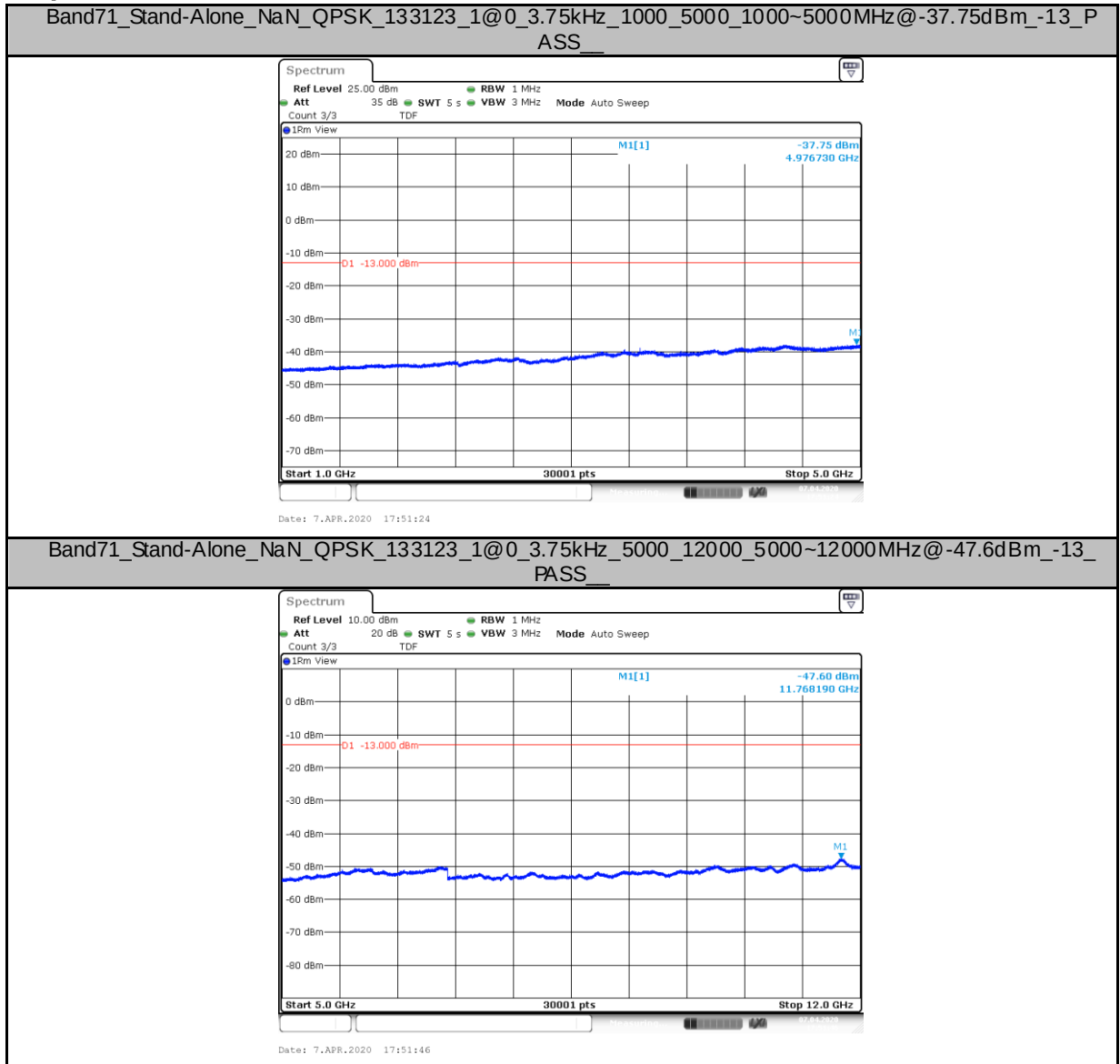
Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.75dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.6dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.47dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	30	1000	30~1000MHz@-35.8dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.86dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.53dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	1@0	3.75kHz	30	1000	30~1000MHz@-35.9dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	12000	26500	12000~26500MHz@-41.59dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	5000	12000	5000~12000MHz@-47.58dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	1000	5000	1000~5000MHz@-37.8dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133123	12@0	15kHz	30	1000	30~1000MHz@-35.54dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.49dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	12@0	15kHz	1000	5000	1000~5000MHz@-37.76dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.53dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.85dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	12@0	15kHz	12000	26500	12000~26500MHz@-41.48dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.57dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	12@0	15kHz	5000	12000	5000~12000MHz@-47.46dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.78dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	30	1000	30~1000MHz@-34.59dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	30	1000	30~1000MHz@-35.95dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133297	12@0	15kHz	30	1000	30~1000MHz@-35.84dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	12000	26500	12000~26500MHz@-41.38dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	5000	12000	5000~12000MHz@-47.51dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	1000	5000	1000~5000MHz@-37.79dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	12@0	15kHz	30	1000	30~1000MHz@-35.6dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.57dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	30	1000	30~1000MHz@-35.28dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.8dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	30	1000	30~1000MHz@-35.97dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.54dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.48dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band71	Stand-Alone	NaN	QPSK	133471	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.51dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	1000	5000	1000~5000MHz@-37.83dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	30	1000	30~1000MHz@-35.85dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	5000	12000	5000~12000MHz@-47.41dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	30	1000	30~1000MHz@-36.07dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	12000	26500	12000~26500MHz@-41.52dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	5000	12000	5000~12000MHz@-47.49dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@0	15kHz	1000	5000	1000~5000MHz@-37.83dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133123	1@11	15kHz	12000	26500	12000~26500MHz@-41.55dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	30	1000	30~1000MHz@-35.46dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	12000	26500	12000~26500MHz@-41.64dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	1000	5000	1000~5000MHz@-37.85dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	12000	26500	12000~26500MHz@-41.49dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	5000	12000	5000~12000MHz@-47.5dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	1000	5000	1000~5000MHz@-37.67dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@0	15kHz	30	1000	30~1000MHz@-35.57dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133297	1@11	15kHz	5000	12000	5000~12000MHz@-47.39dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	12000	26500	12000~26500MHz@-41.3dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	30	1000	30~1000MHz@-35.43dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	1000	5000	1000~5000MHz@-37.86dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	5000	12000	5000~12000MHz@-47.46dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@0	15kHz	12000	26500	12000~26500MHz@-41.71dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	30	1000	30~1000MHz@-34.81dBm	-13	PASS

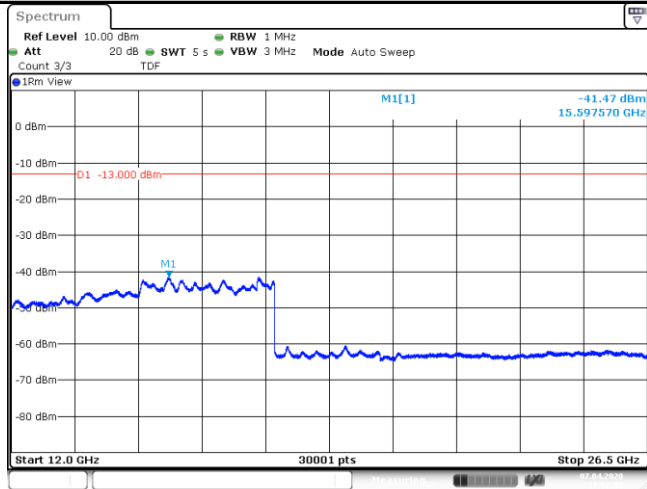
Produkte
Products

Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	1000	5000	1000~5000MHz@-37.82dBm	-13	PASS
Band71	Stand-Alone	NaN	BPSK	133471	1@11	15kHz	5000	12000	5000~12000MHz@-47.49dBm	-13	PASS

Test Graphs

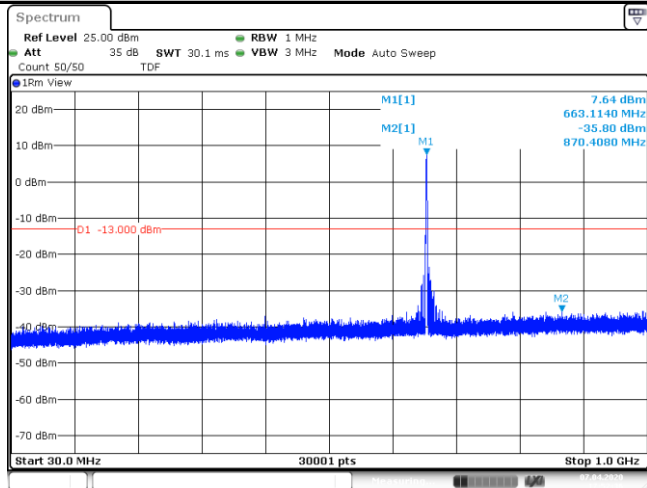


Band71_Stand-Alone_NaN_QPSK_133123_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.47dBm_-13_PASS



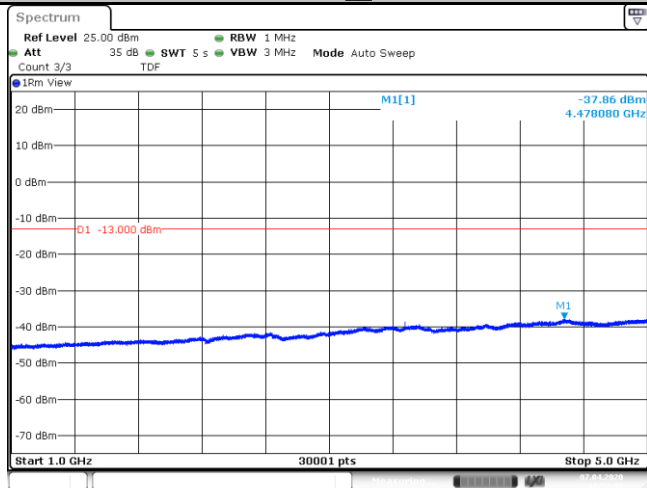
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Band71_Stand-Alone_NaN_QPSK_133123_1@47_3.75kHz_30_1000_30~1000MHz@-35.8dBm_-13_PASS



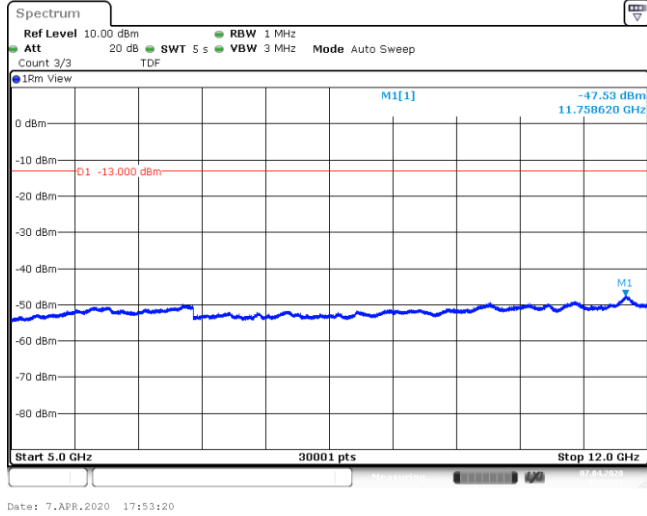
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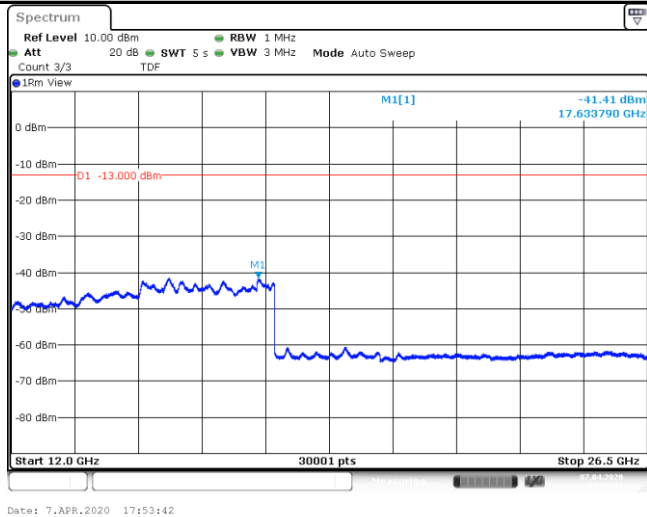


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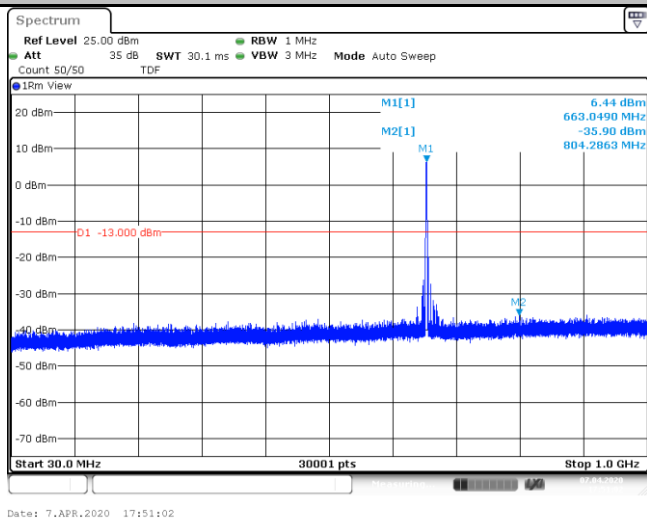
Band71_Stand-Alone_NaN_QPSK_133123_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.53dBm_-13_PASS



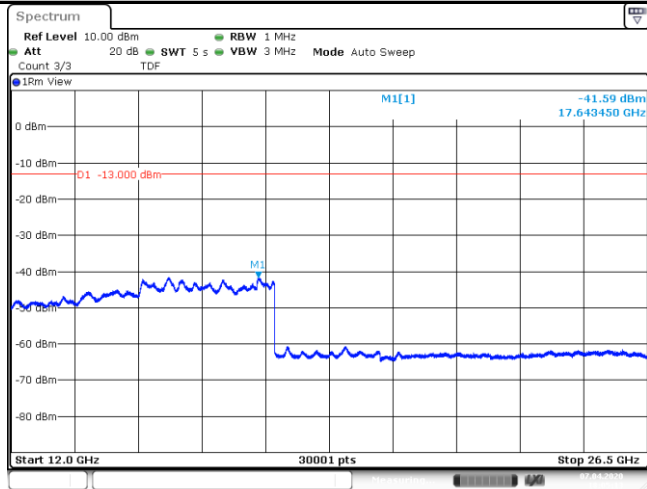
Band71_Stand-Alone_NaN_QPSK_133123_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.41dBm_-13_PASS



Band71_Stand-Alone_NaN_QPSK_133123_1@0_3.75kHz_30_1000_30~1000MHz@-35.9dBm_-13_PASS

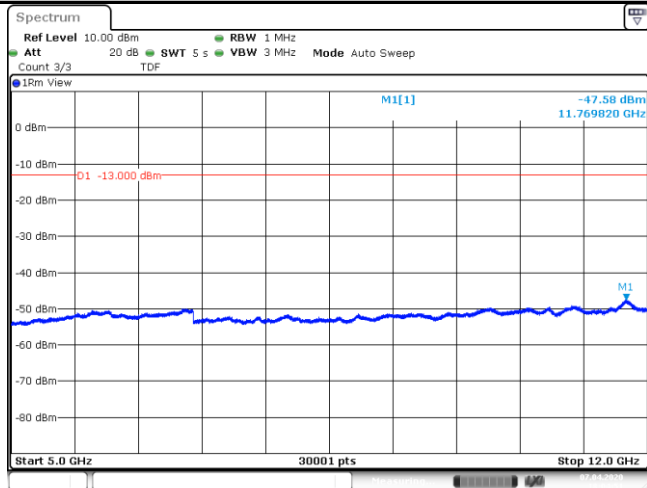


Band71_Stand-Alone_NaN_QPSK_133123_12@0_15kHz_12000_26500_12000~26500MHz@-41.59dBm_-1
3_PASS



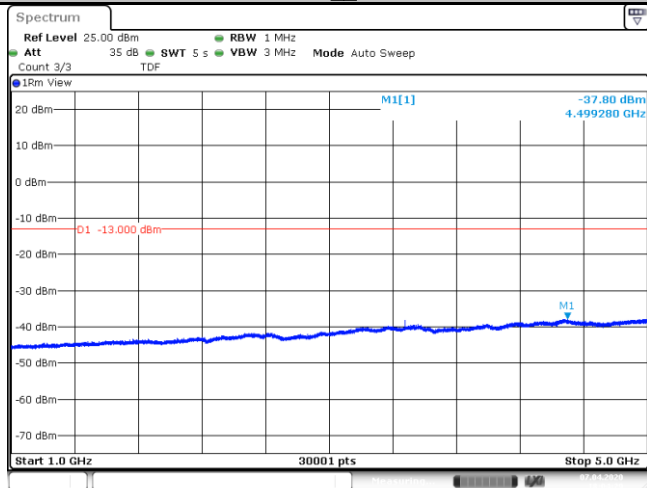
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PASS



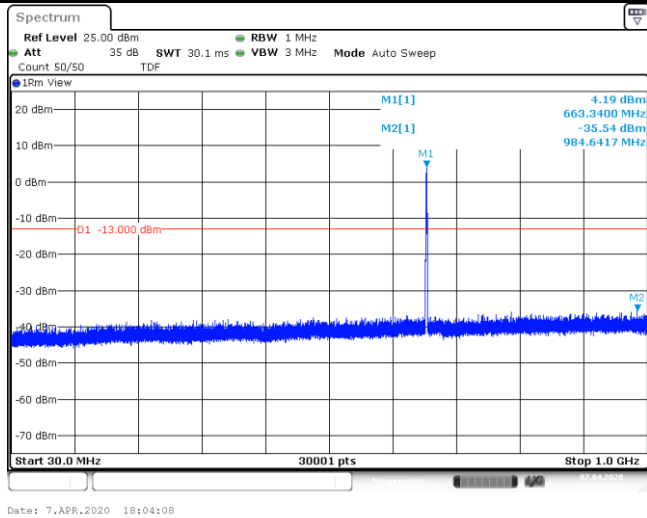
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Band71_Stand-Alone_NaN_QPSK_133123_12@0_15kHz_1000_5000_1000~5000MHz@-37.8dBm_-13_PA
SS

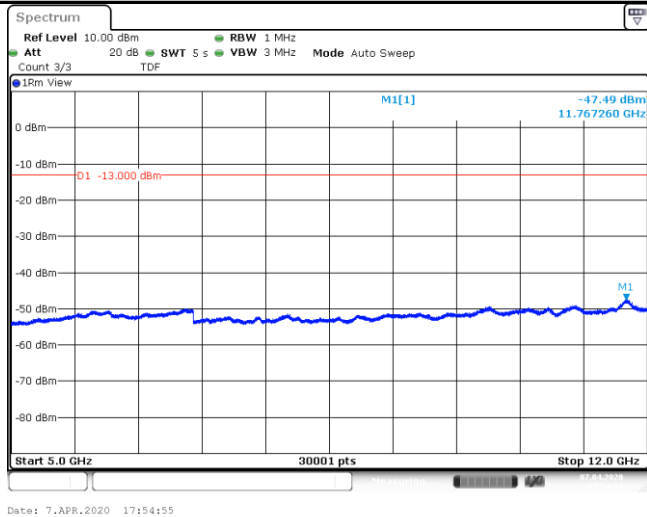


Date: 7.APR.2020 18:04:29

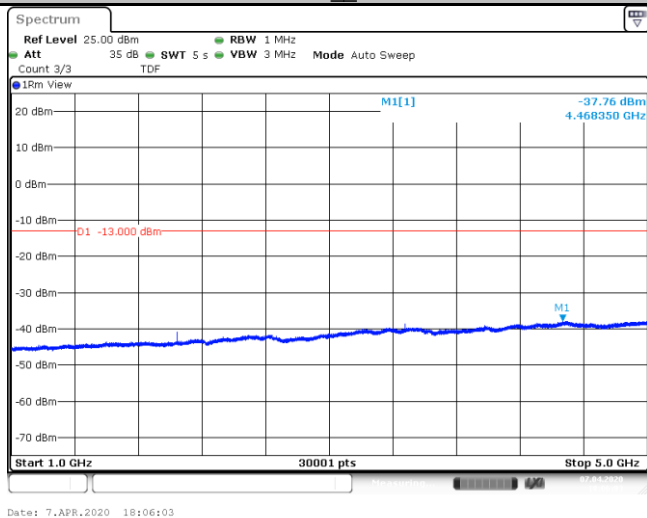
Band71_Stand-Alone_NaN_QPSK_133123_12@0_15kHz_30_1000_30~1000MHz@-35.54dBm_-13_PASS_



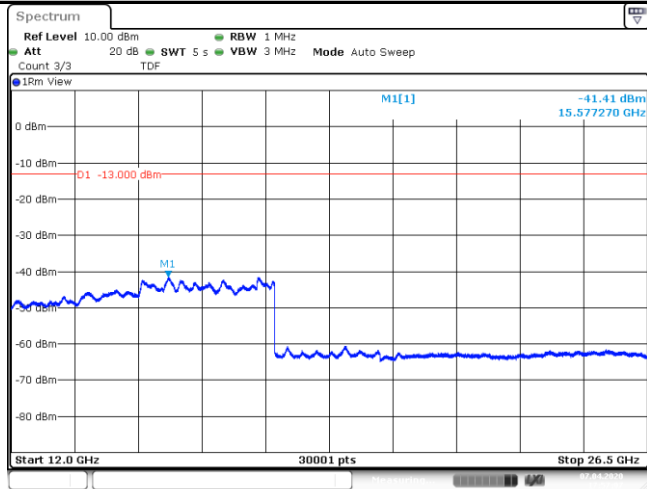
Band71_Stand-Alone_NaN_QPSK_133297_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.49dBm_-13_PASS_



Band71_Stand-Alone_NaN_QPSK_133297_12@0_15kHz_1000_5000_1000~5000MHz@-37.76dBm_-13_PASS_

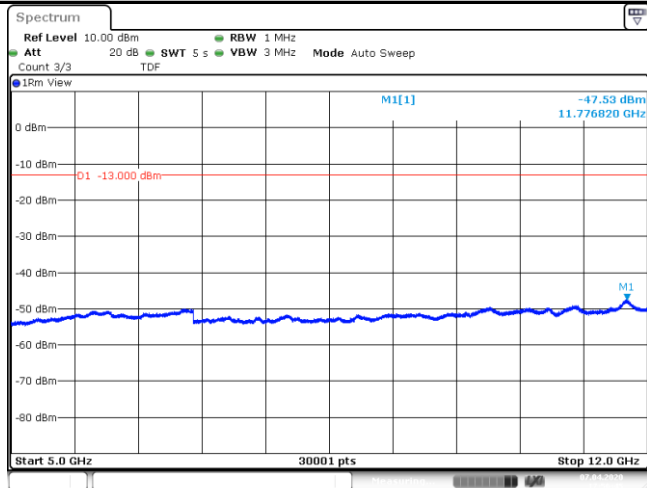


Band71_Stand-Alone_NaN_QPSK_133297_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.41dBm_-13_PASS



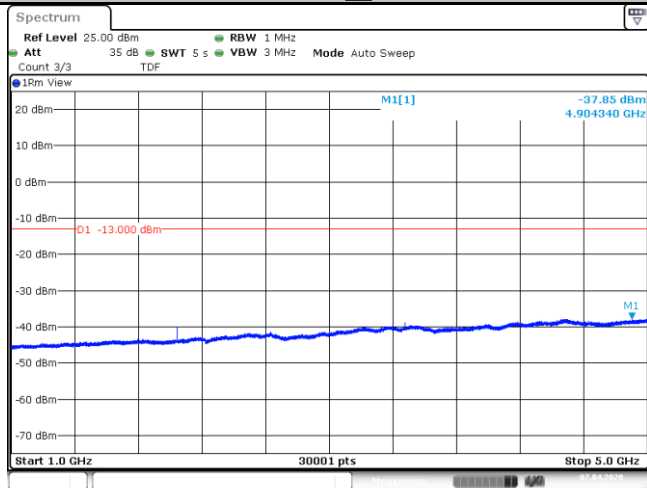
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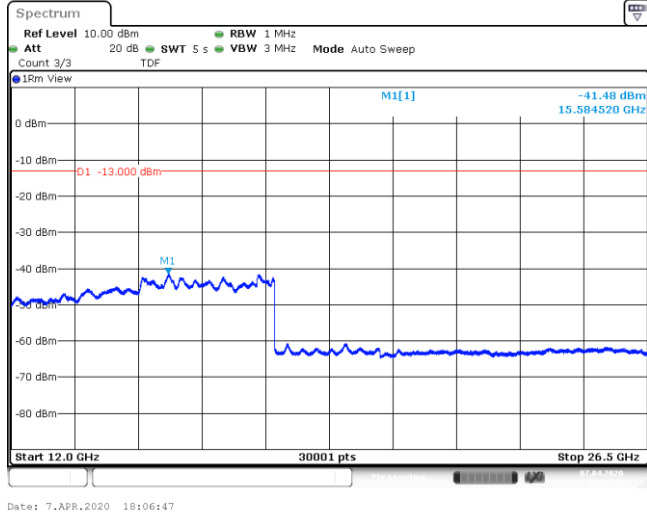
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Band71_Stand-Alone_NaN_QPSK_133297_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.85dBm_-13_PASS

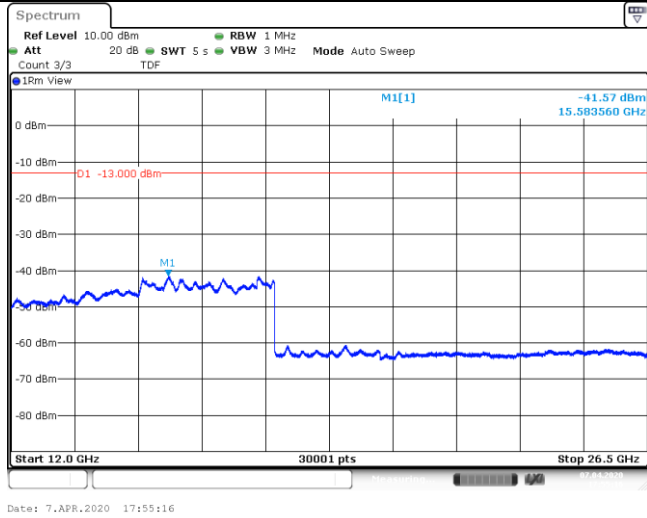


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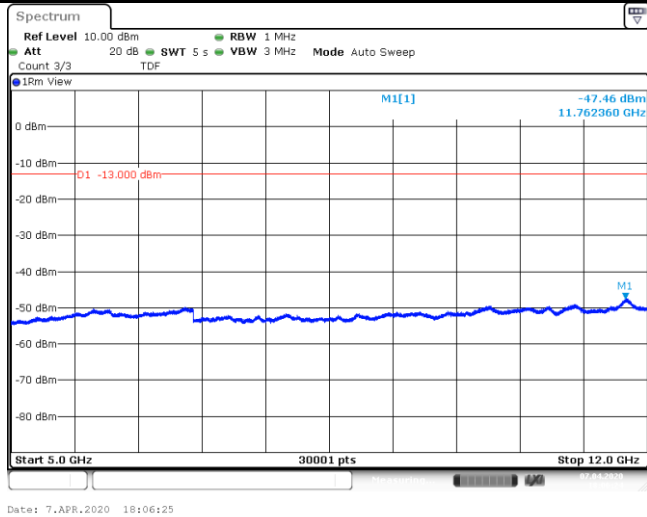
Band71_Stand-Alone_NaN_QPSK_133297_12@0_15kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PASS



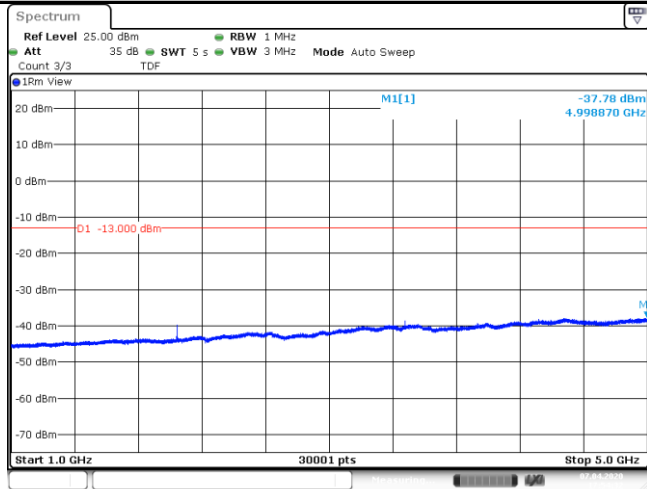
Band71_Stand-Alone_NaN_QPSK_133297_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.57dBm_-13_PASS



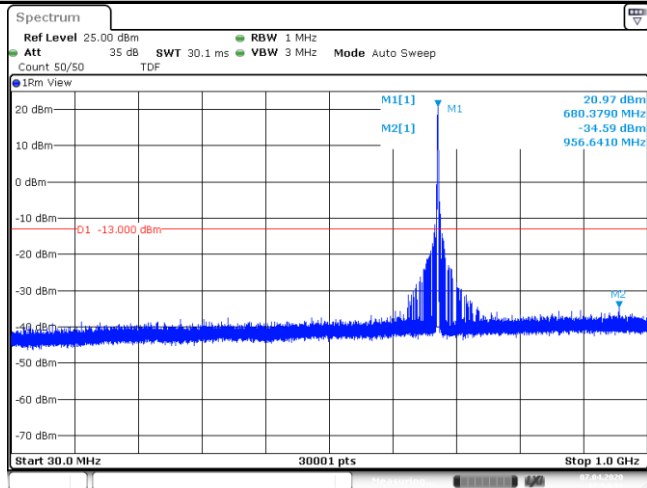
Band71_Stand-Alone_NaN_QPSK_133297_12@0_15kHz_5000_12000_5000~12000MHz@-47.46dBm_-13_PASS



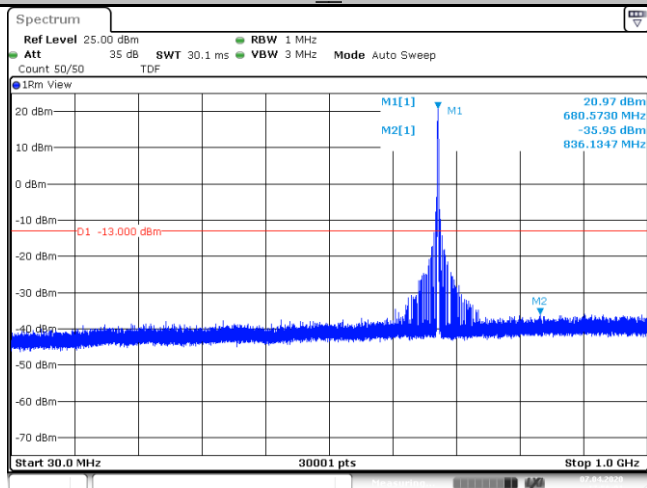
Band71_Stand-Alone_NaN_QPSK_133297_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.78dBm_-13_P ASS



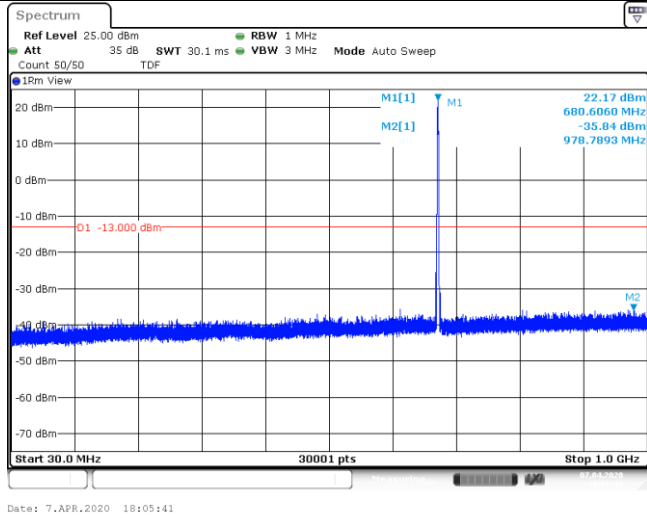
Band71_Stand-Alone_NaN_QPSK_133297_1@0_3.75kHz_30_1000_30~1000MHz@-34.59dBm_-13_PASS



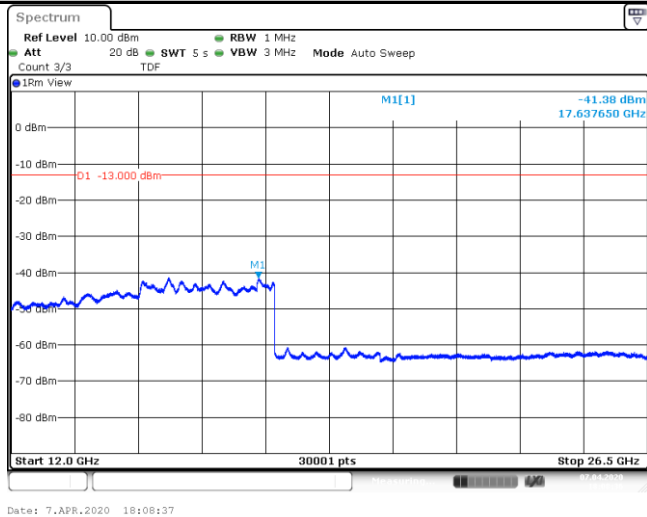
Band71_Stand-Alone_NaN_QPSK_133297_1@47_3.75kHz_30_1000_30~1000MHz@-35.95dBm_-13_PASS



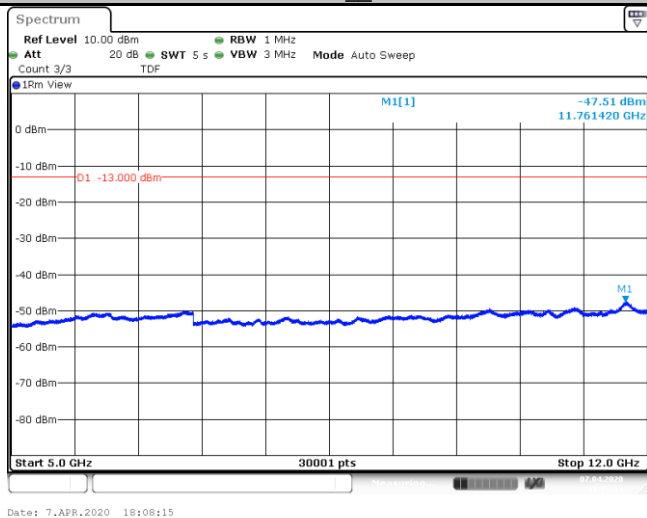
Band71_Stand-Alone_NaN_QPSK_133297_12@0_15kHz_30_1000_30~1000MHz@-35.84dBm_-13_PASS_



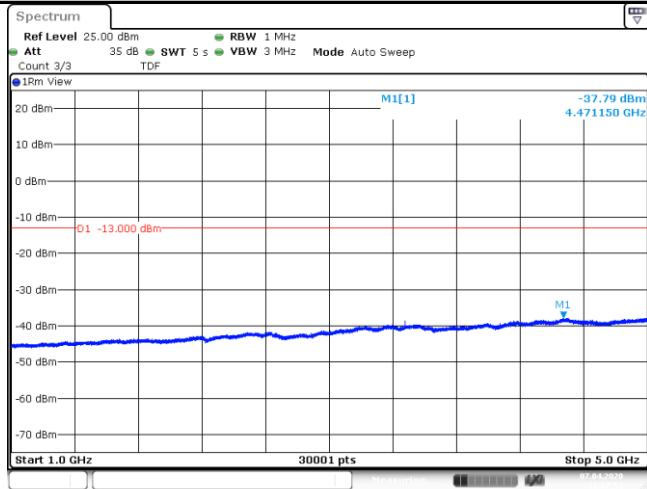
Band71_Stand-Alone_NaN_QPSK_133471_12@0_15kHz_12000_26500_12000~26500MHz@-41.38dBm_-13_PASS_



Band71_Stand-Alone_NaN_QPSK_133471_12@0_15kHz_5000_12000_5000~12000MHz@-47.51dBm_-13_PASS_

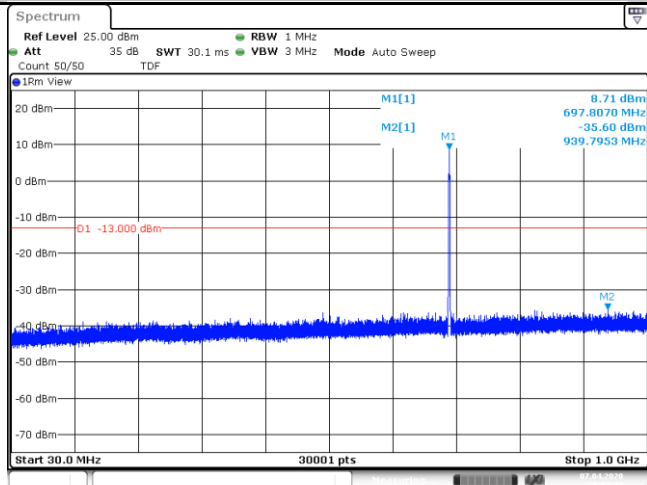


Band71_Stand-Alone_NaN_QPSK_133471_12@0_15kHz_1000_5000_1000~5000MHz@-37.79dBm_-13_PA
SS



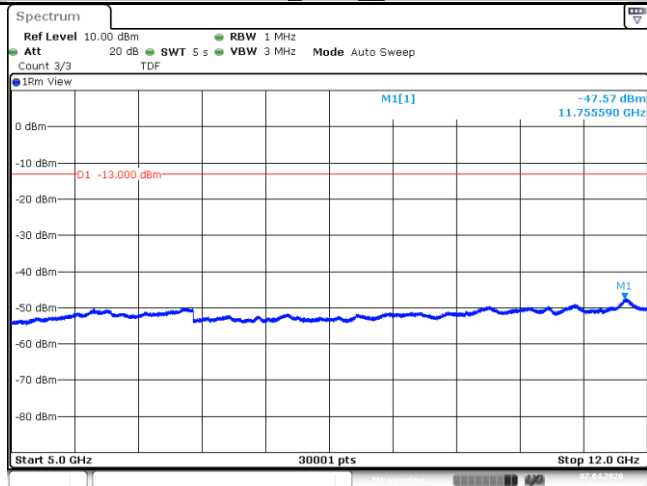
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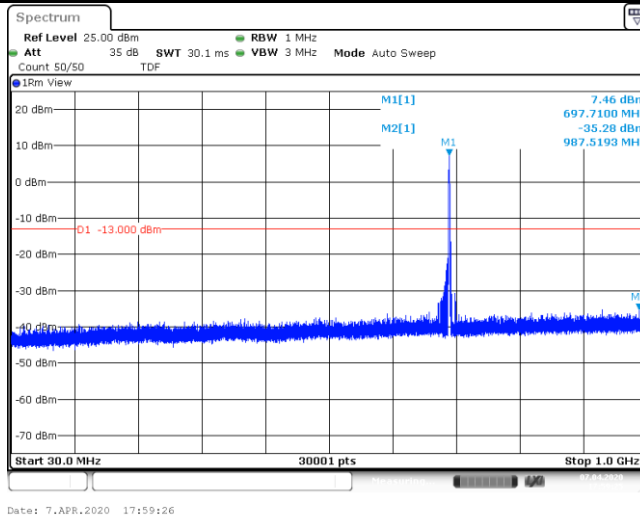
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3_PASS

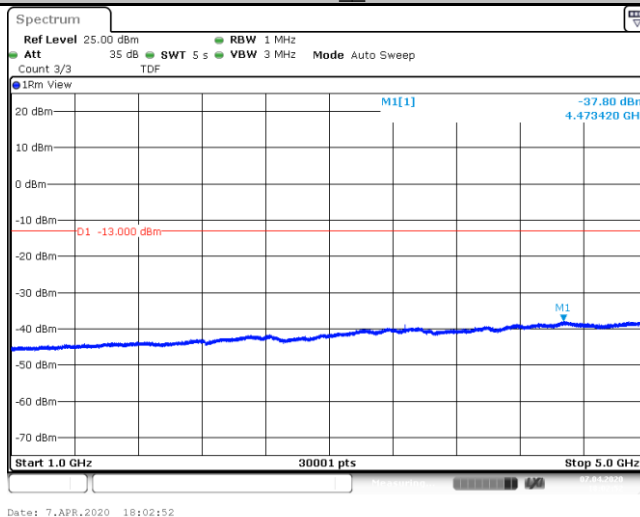


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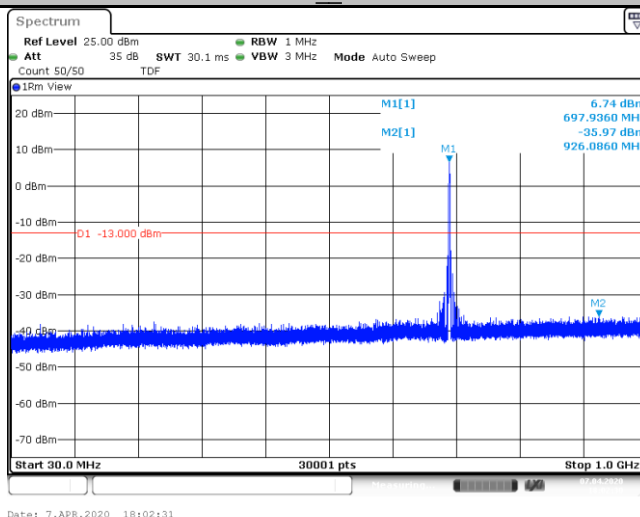
Band71_Stand-Alone_NaN_QPSK_133471_1@0_3.75kHz_30_1000_30~1000MHz@-35.28dBm_-13_PASS_



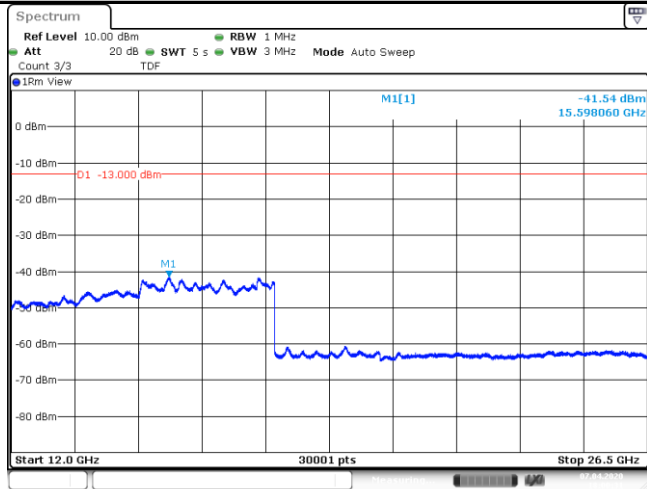
Band71_Stand-Alone_NaN_QPSK_133471_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.8dBm_-13_PASS_



Band71_Stand-Alone_NaN_QPSK_133471_1@47_3.75kHz_30_1000_30~1000MHz@-35.97dBm_-13_PASS_

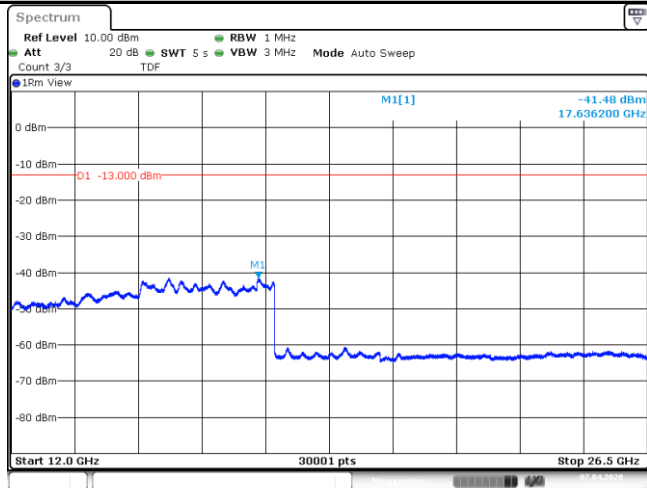


Band71_Stand-Alone_NaN_QPSK_133471_1@0_3.75kHz_12000_26500_12000~26500MHz@-41.54dBm_-13_PASS



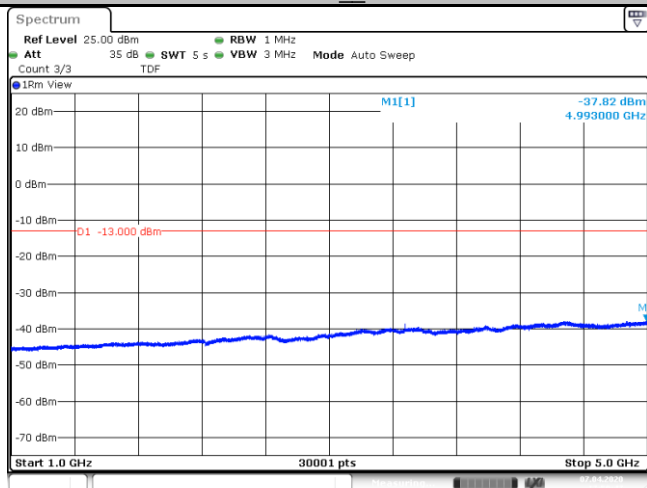
Date: 7.APR.2020 18:00:31

Band71_Stand-Alone_NaN_QPSK_133471_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.48dBm_-13_PASS



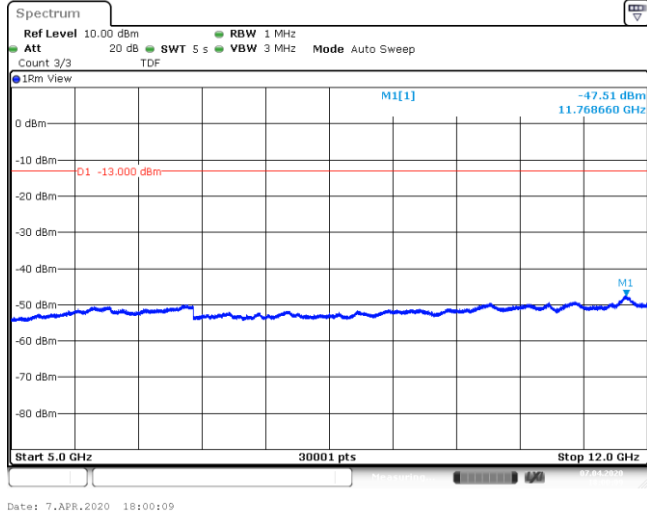
Date: 7.APR.2020 18:03:36

Band71_Stand-Alone_NaN_QPSK_133471_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.82dBm_-13_PASS

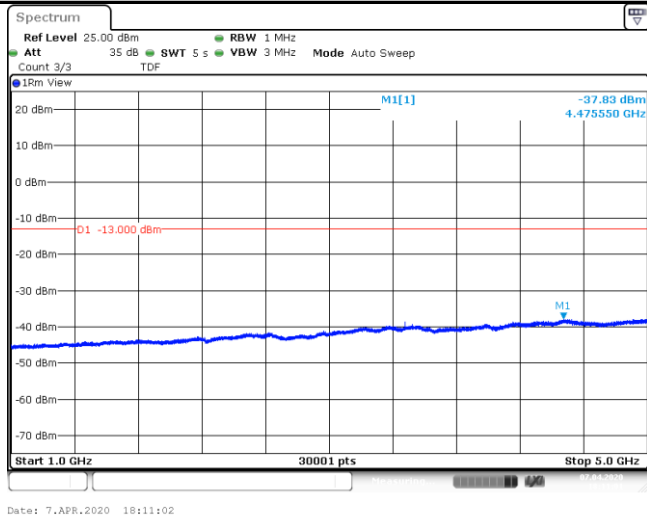


Date: 7.APR.2020 17:59:48

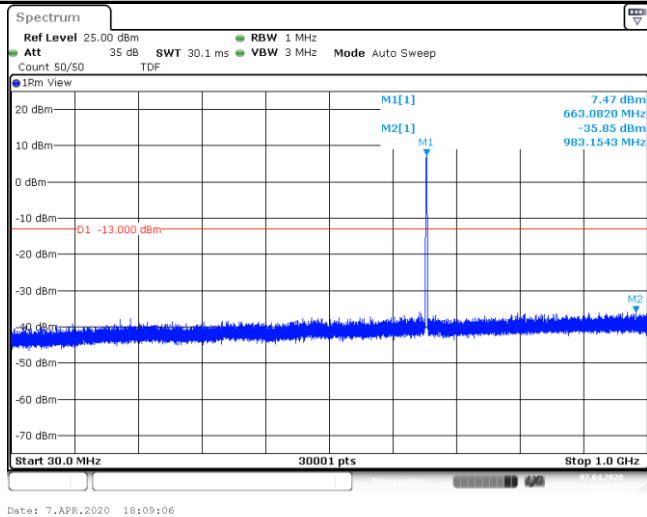
Band71_Stand-Alone_NaN_QPSK_133471_1@0_3.75kHz_5000_12000_5000~12000MHz@-47.51dBm_-13_PASS



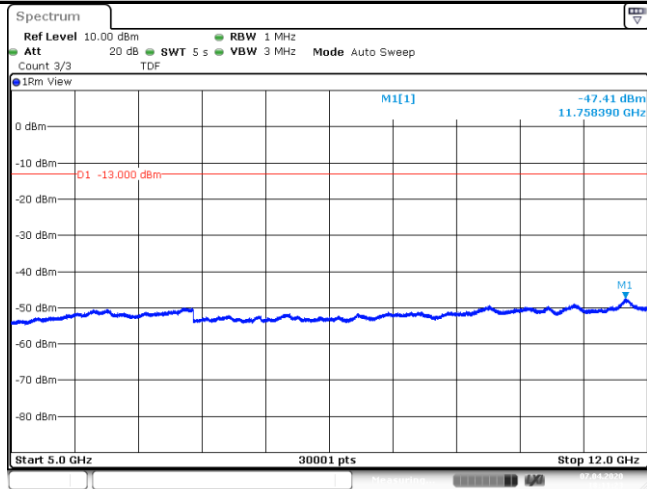
Band71_Stand-Alone_NaN_BPSK_133123_1@11_15kHz_1000_5000_1000~5000MHz@-37.83dBm_-13_PA_SS



Band71_Stand-Alone_NaN_BPSK_133123_1@0_15kHz_30_1000_30~1000MHz@-35.85dBm_-13_PASS

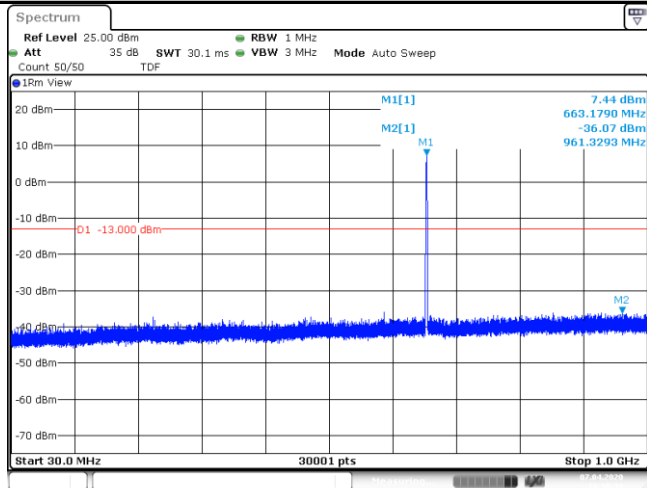


Band71_Stand-Alone_NaN_BPSK_133123_1@11_15kHz_5000_12000_5000~12000MHz@-47.41dBm_-13_PASS



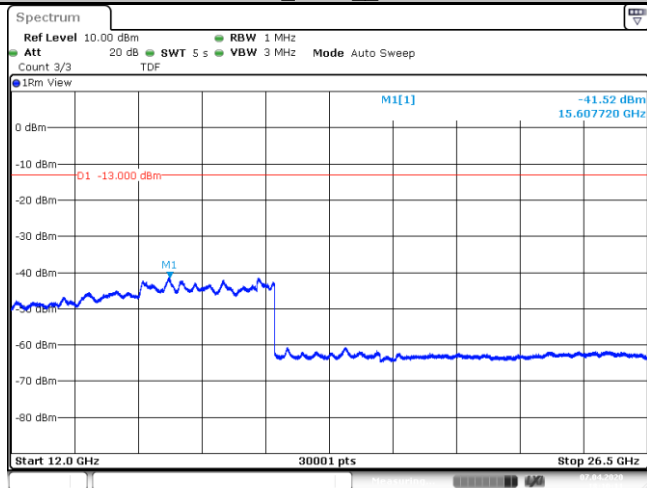
Date: 7.APR.2020 18:11:24

Band71_Stand-Alone_NaN_BPSK_133123_1@11_15kHz_30_1000_30~1000MHz@-36.07dBm_-13_PASS



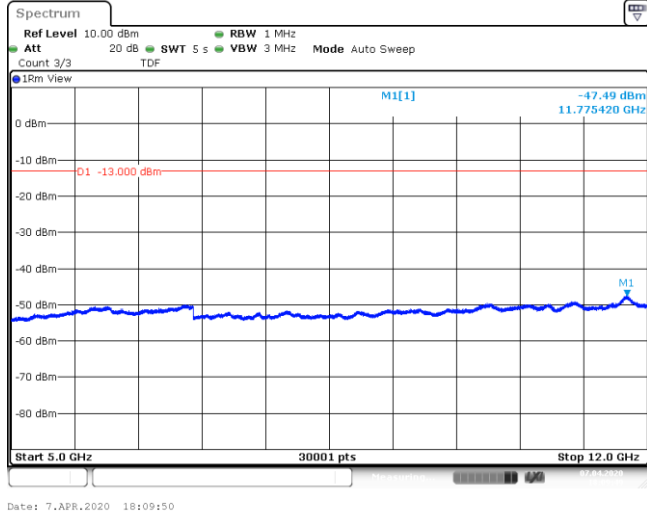
Date: 7.APR.2020 18:10:40

Band71_Stand-Alone_NaN_BPSK_133123_1@0_15kHz_12000_26500_12000~26500MHz@-41.52dBm_-13_PASS

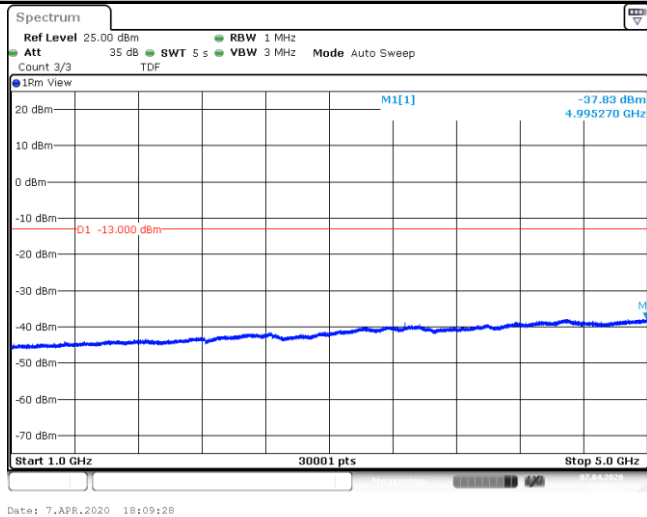


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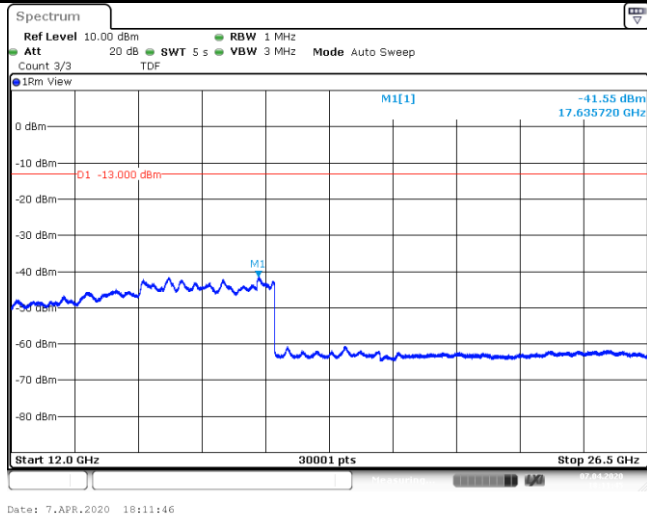
Band71_Stand-Alone_NaN_BPSK_133123_1@0_15kHz_5000_12000_5000~12000MHz@-47.49dBm_-13_P ASS



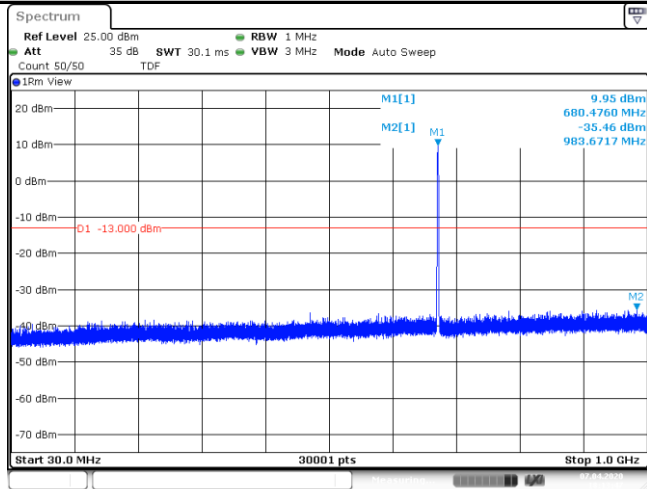
Band71_Stand-Alone_NaN_BPSK_133123_1@0_15kHz_1000_5000_1000~5000MHz@-37.83dBm_-13_PAS S



Band71_Stand-Alone_NaN_BPSK_133123_1@11_15kHz_12000_26500_12000~26500MHz@-41.55dBm_-1 3_PASS

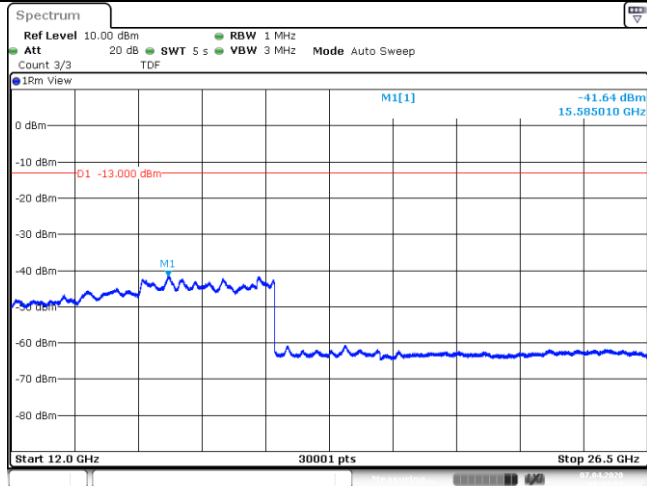


Band71_Stand-Alone_NaN_BPSK_133297_1@11_15kHz_30_1000_30~1000MHz@-35.46dBm_-13_PASS_



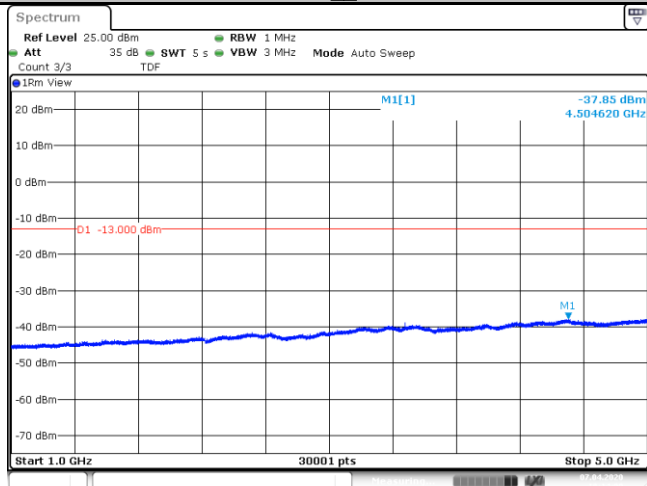
Date: 7.APR.2020 18:13:48

Band71_Stand-Alone_NaN_BPSK_133297_1@11_15kHz_12000_26500_12000~26500MHz@-41.64dBm_-13_PASS_



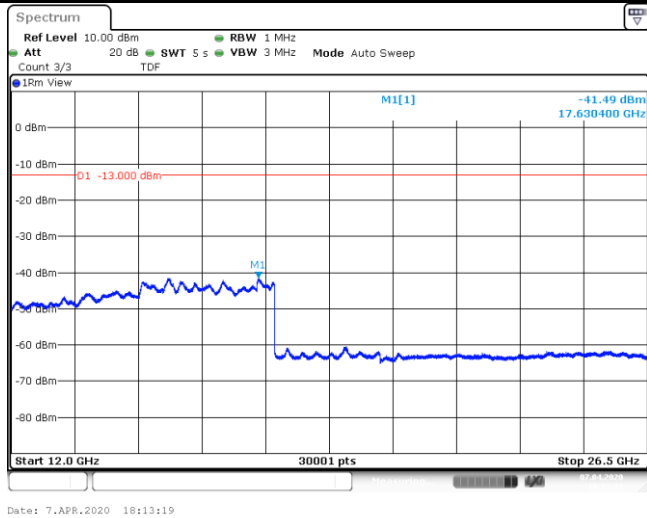
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Band71_Stand-Alone_NaN_BPSK_133297_1@11_15kHz_1000_5000_1000~5000MHz@-37.85dBm_-13_PASS_

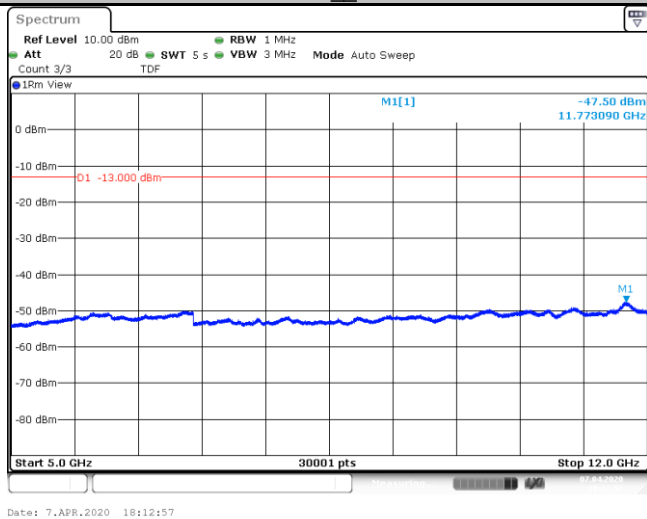


Date: 7.APR.2020 18:14:09

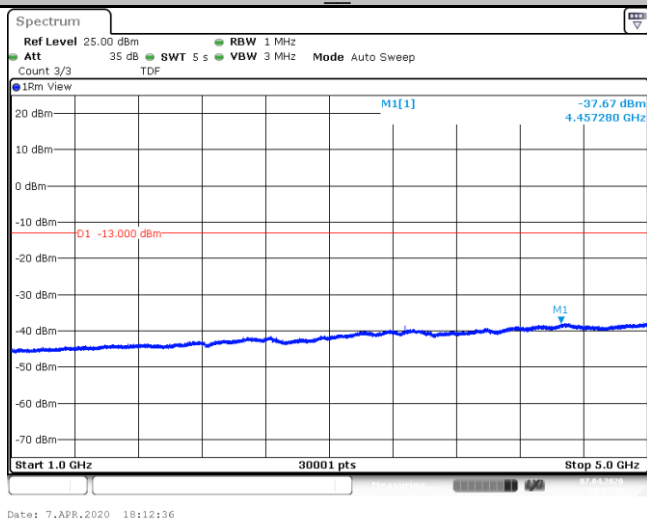
Band71_Stand-Alone_NaN_BPSK_133297_1@0_15kHz_12000_26500_12000~26500MHz@-41.49dBm_-13_PASS

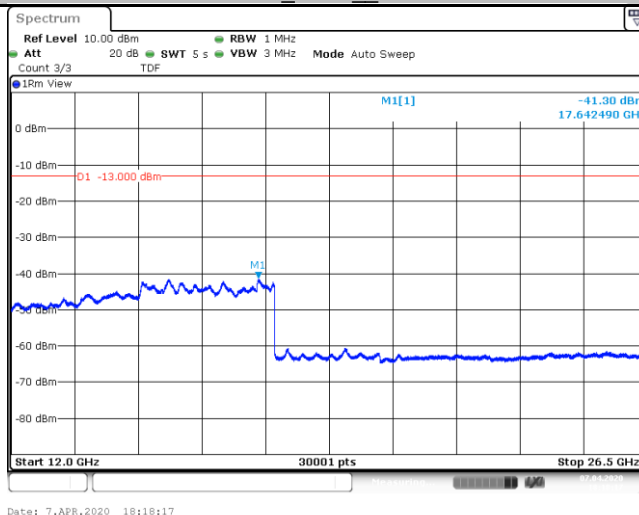
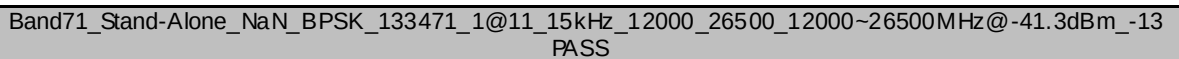
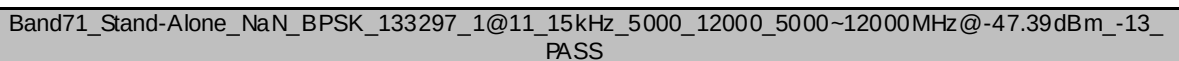


Band71_Stand-Alone_NaN_BPSK_133297_1@0_15kHz_5000_12000_5000~12000MHz@-47.50dBm_-13_PASS

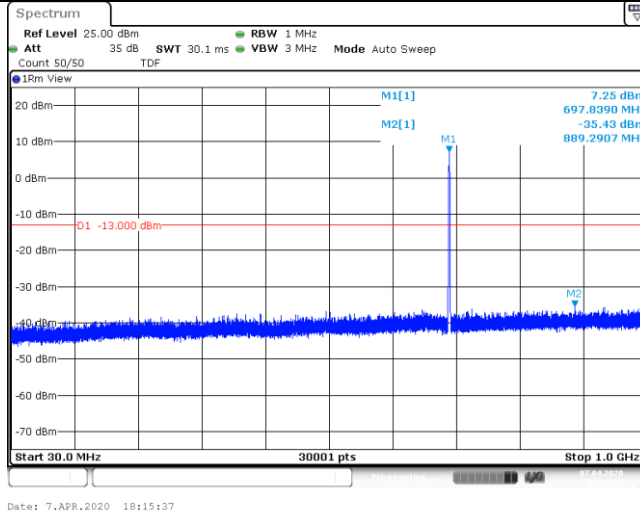


Band71_Stand-Alone_NaN_BPSK_133297_1@0_15kHz_1000_5000_1000~5000MHz@-37.67dBm_-13_PASS

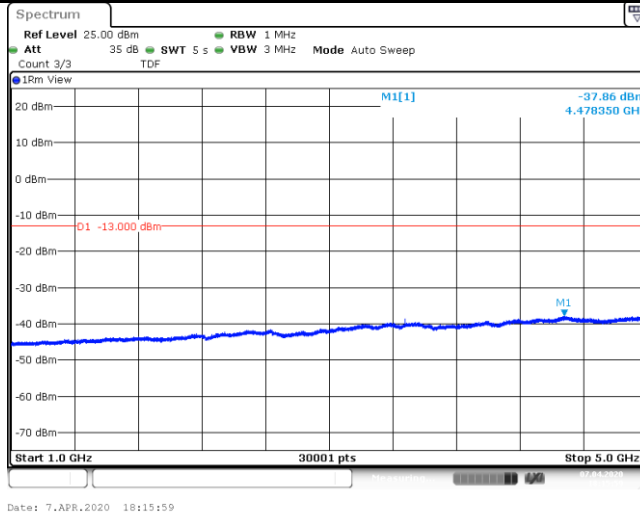




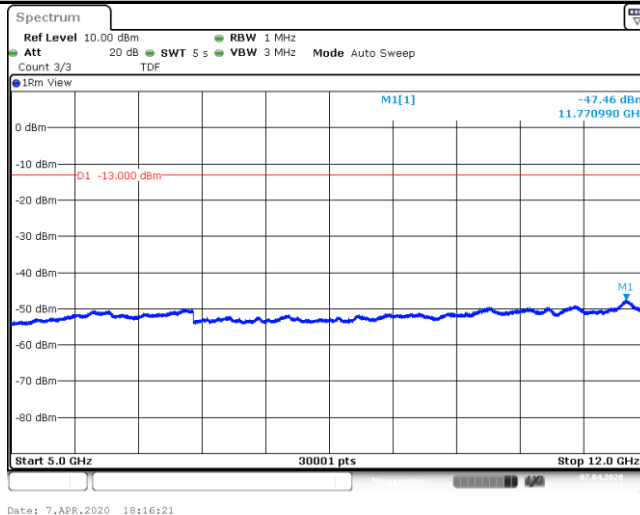
Band71_Stand-Alone_NaN_BPSK_133471_1@0_15kHz_30_1000_30~1000MHz@-35.43dBm_-13_PASS__



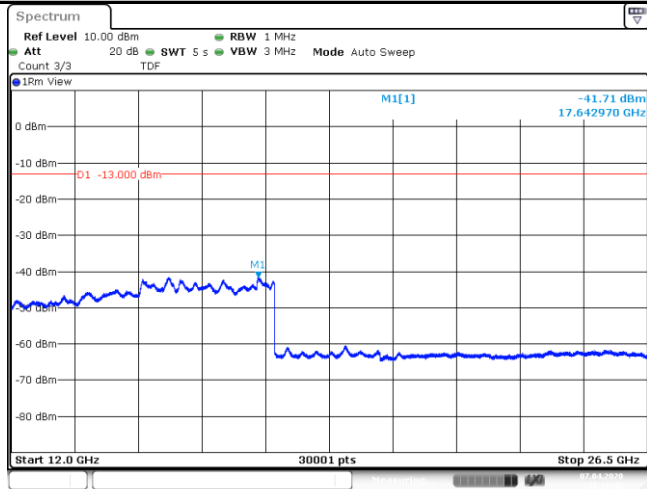
Band71_Stand-Alone_NaN_BPSK_133471_1@0_15kHz_1000_5000_1000~5000MHz@-37.86dBm_-13_PAS
S__



Band71_Stand-Alone_NaN_BPSK_133471_1@0_15kHz_5000_12000_5000~12000MHz@-47.46dBm_-13_P
ASS__

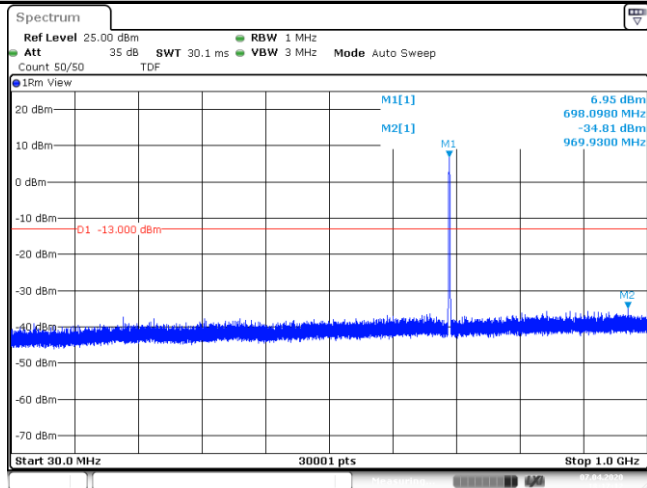


Band71_Stand-Alone_NaN_BPSK_133471_1@0_15kHz_12000_26500_12000~26500MHz@-41.71dBm_-13_PASS



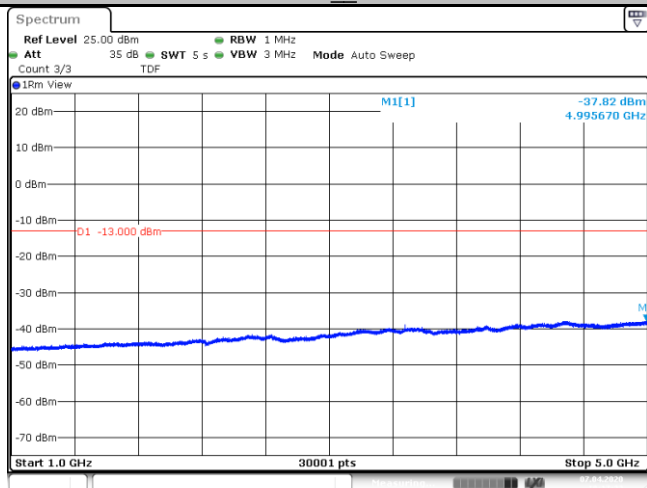
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Band71_Stand-Alone_NaN_BPSK_133471_1@11_15kHz_30_1000_30~1000MHz@-34.81dBm_-13_PASS



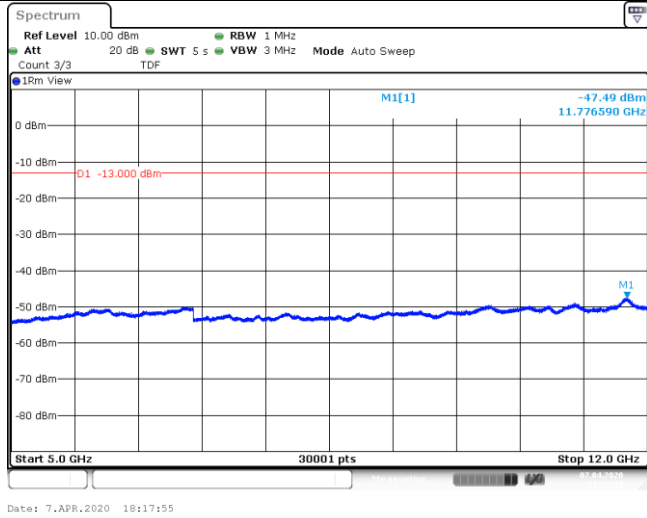
Date: 7.APR.2020 18:17:11

Band71_Stand-Alone_NaN_BPSK_133471_1@11_15kHz_1000_5000_1000~5000MHz@-37.82dBm_-13_PA_SS



Date: 7.APR.2020 18:17:33

Band71_Stand-Alone_NaN_BPSK_133471_1@11_15kHz_5000_12000_5000~12000MHz@-47.49dBm_-13_
PASS



Appendix J.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
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	HV	NT	-6.62	-0.009728	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	LV	NT	-13.05	-0.019177	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	NT	-9.38	-0.013784	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	HV	NT	-11.42	-0.016782	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	LV	NT	-12.52	-0.018398	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	NT	7.05	0.010360	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	HV	NT	-2.93	-0.004306	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	LV	NT	-5.14	-0.007553	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	NT	-4.78	-0.007024	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	HV	NT	-4.91	-0.007215	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	LV	NT	-7.07	-0.010389	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	NT	-7.61	-0.011183	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	85	-4.51	-0.006627	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	-40	-5.21	-0.007656	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	70	-6.11	-0.008979	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	60	-6.25	-0.009184	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	50	-5.31	-0.007803	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	40	-2.96	-0.004350	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	30	-4.88	-0.007171	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	20	-3.06	-0.004497	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	10	-2.83	-0.004159	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	0	-2.47	-0.003630	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	-10	-2.62	-0.003850	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	-20	-4.06	-0.005966	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	85	-5.04	-0.007406	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	-40	-4.38	-0.006436	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	-40	-8.10	-0.011903	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	80	-4.28	-0.006289	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	70	-4.45	-0.006539	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	60	-3.22	-0.004732	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	50	-4.63	-0.006804	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	40	-5.19	-0.007627	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	30	-5.97	-0.008773	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	20	-2.96	-0.004350	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	10	-5.11	-0.007509	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	0	-3.58	-0.005261	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	-10	-5.35	-0.007862	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	-20	-4.99	-0.007333	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	3.75kHz	NV	-30	-5.31	-0.007803	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	-30	-4.15	-0.006098	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	85	-10.76	-0.015812	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	80	-10.37	-0.015239	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	70	-13.28	-0.019515	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	60	-11.39	-0.016738	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	50	-13.89	-0.020411	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	40	-5.29	-0.007774	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	30	-5.69	-0.008361	±2.5	PASS

Appendix J
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Produkte
Products

Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	20	-11.14	-0.016370	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	10	-11.56	-0.016988	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	0	-13.58	-0.019956	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	-10	-13.02	-0.019133	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	-20	-11.76	-0.017281	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@47	3.75kHz	NV	80	-4.92	-0.007230	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	-40	5.84	0.008582	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	85	8.68	0.012755	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	80	-5.44	-0.007994	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	70	-13.69	-0.020118	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	60	-7.32	-0.010757	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	50	-11.04	-0.016223	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	40	-16.14	-0.023718	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	30	-8.27	-0.012153	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	20	-11.34	-0.016664	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	10	-12.69	-0.018648	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	0	-11.22	-0.016488	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	-10	8.81	0.012946	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	-20	-7.74	-0.011374	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@0	15kHz	NV	-30	-9.04	-0.013284	±2.5	PASS
Band71	Stand-Alone	NaN	QPSK	133297	1@11	15kHz	NV	-30	-7.80	-0.011462	±2.5	PASS