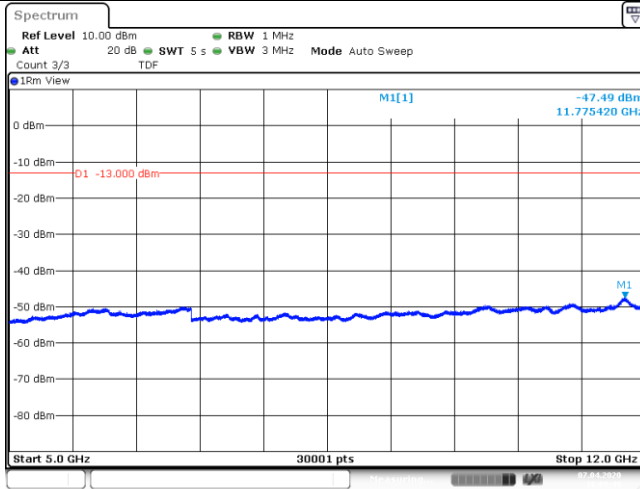
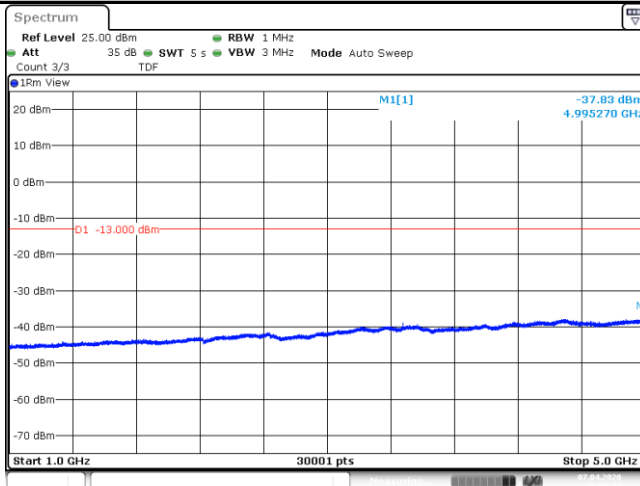


Band71\_Stand-Alone\_NaN\_BPSK\_133123\_1@0\_15kHz\_5000\_12000\_5000~12000MHz@-47.49dBm\_-13\_P ASS\_



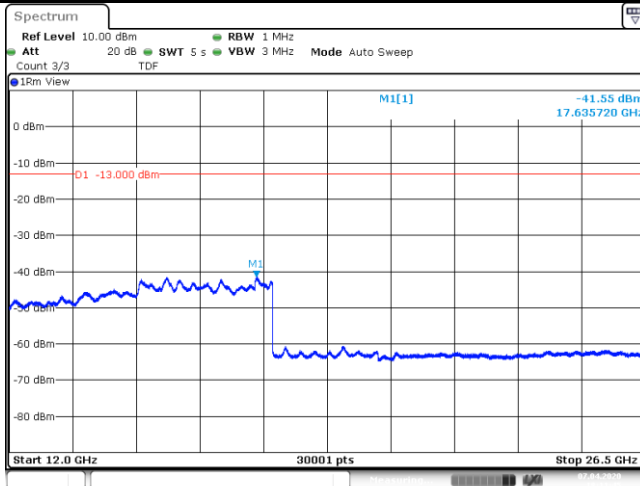
Date: 7.APR.2020 18:09:50

Band71\_Stand-Alone\_NaN\_BPSK\_133123\_1@0\_15kHz\_1000\_5000\_1000~5000MHz@-37.83dBm\_-13\_PAS S\_



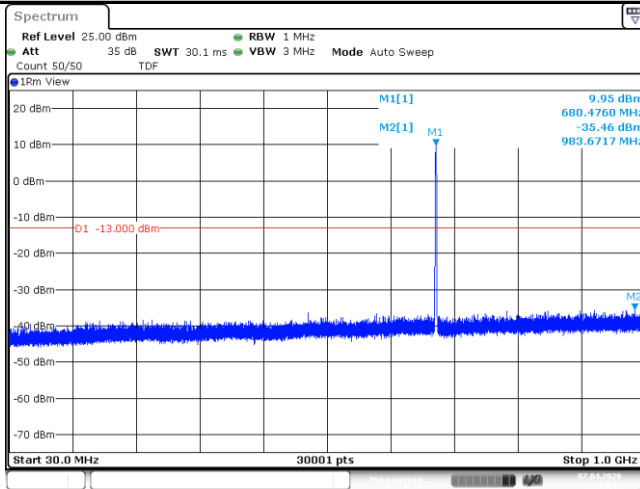
Date: 7.APR.2020 18:09:28

Band71\_Stand-Alone\_NaN\_BPSK\_133123\_1@11\_15kHz\_12000\_26500\_12000~26500MHz@-41.55dBm\_-1 3\_PASS\_



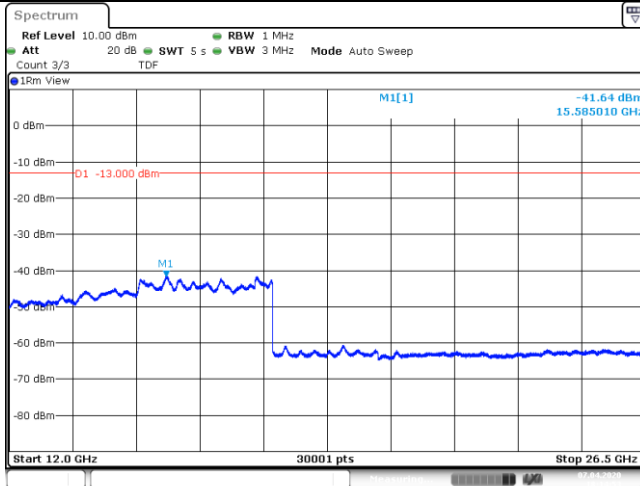
Date: 7.APR.2020 18:11:46

Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@11\_15kHz\_30\_1000\_30~1000MHz@-35.46dBm\_-13\_PASS\_



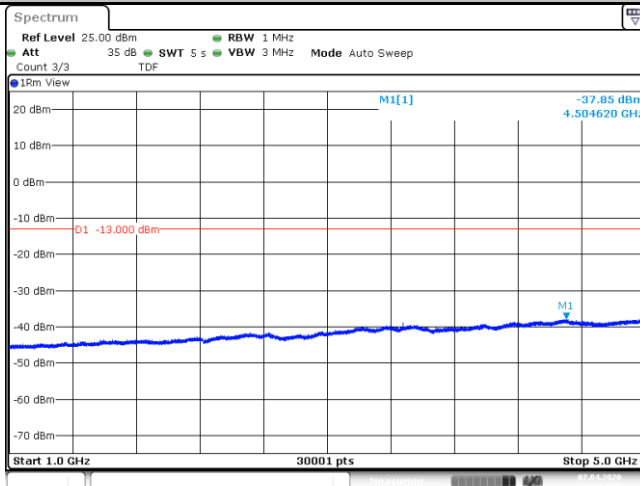
Date: 7.APR.2020 18:13:48

Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@11\_15kHz\_12000\_26500\_12000~26500MHz@-41.64dBm\_-13\_PASS\_



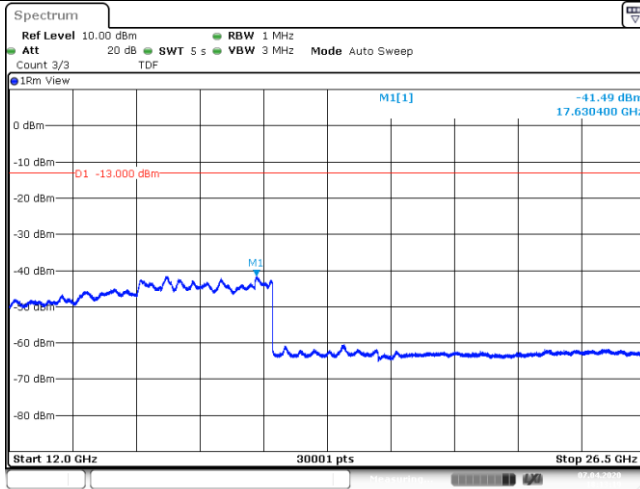
Date: 7.APR.2020 18:14:53

Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@11\_15kHz\_1000\_5000\_1000~5000MHz@-37.85dBm\_-13\_PASS\_



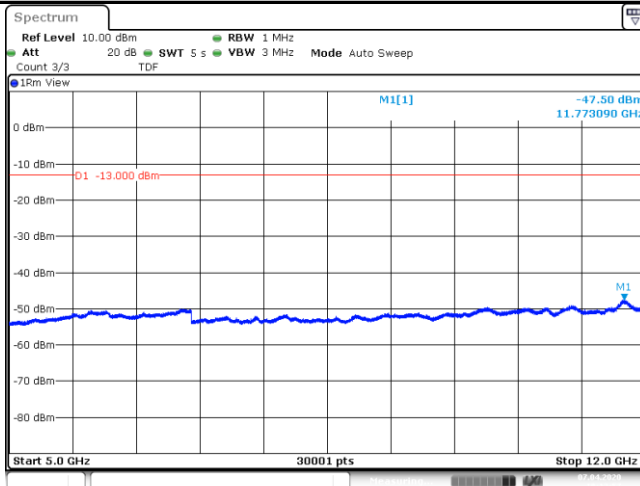
Date: 7.APR.2020 18:14:09

Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@0\_15kHz\_12000\_26500\_12000~26500MHz@-41.49dBm\_-13\_PASS



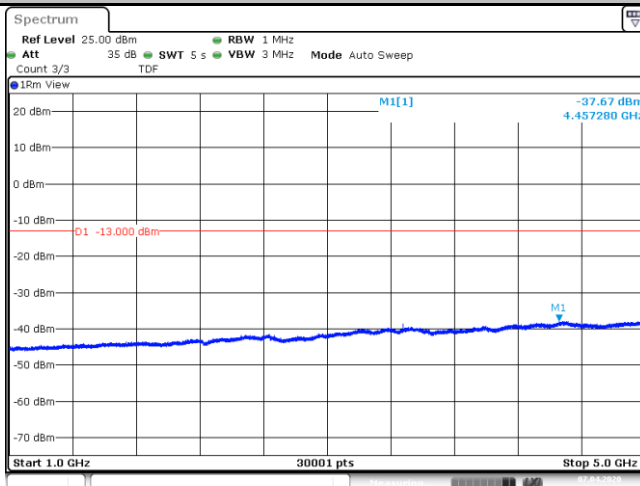
Date: 7.APR.2020 18:13:19

Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@0\_15kHz\_5000\_12000\_5000~12000MHz@-47.50dBm\_-13\_PASS

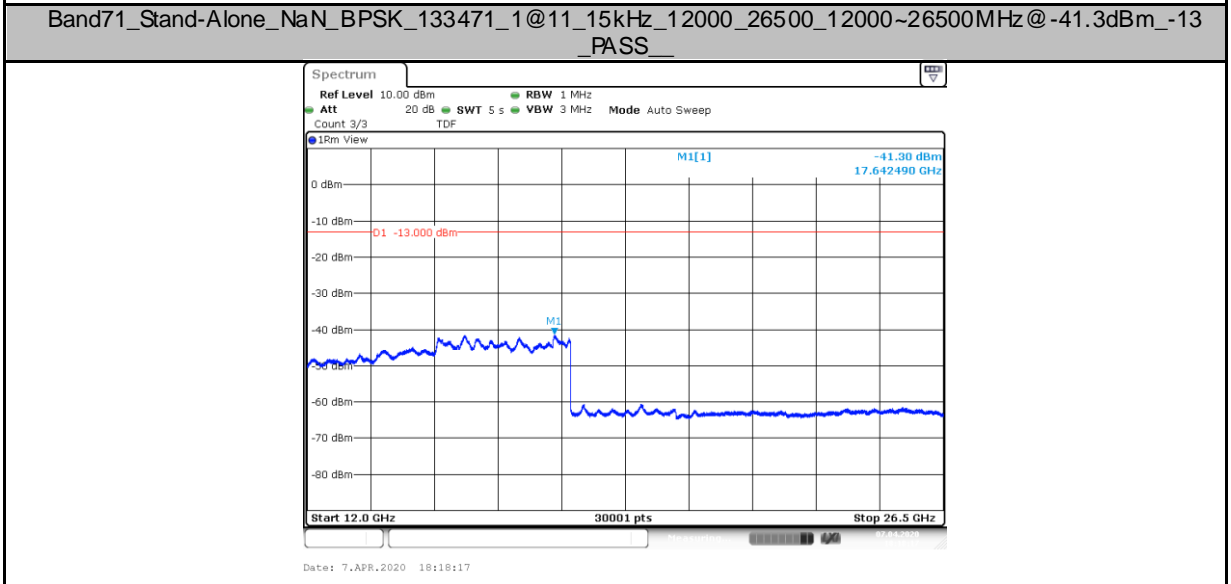
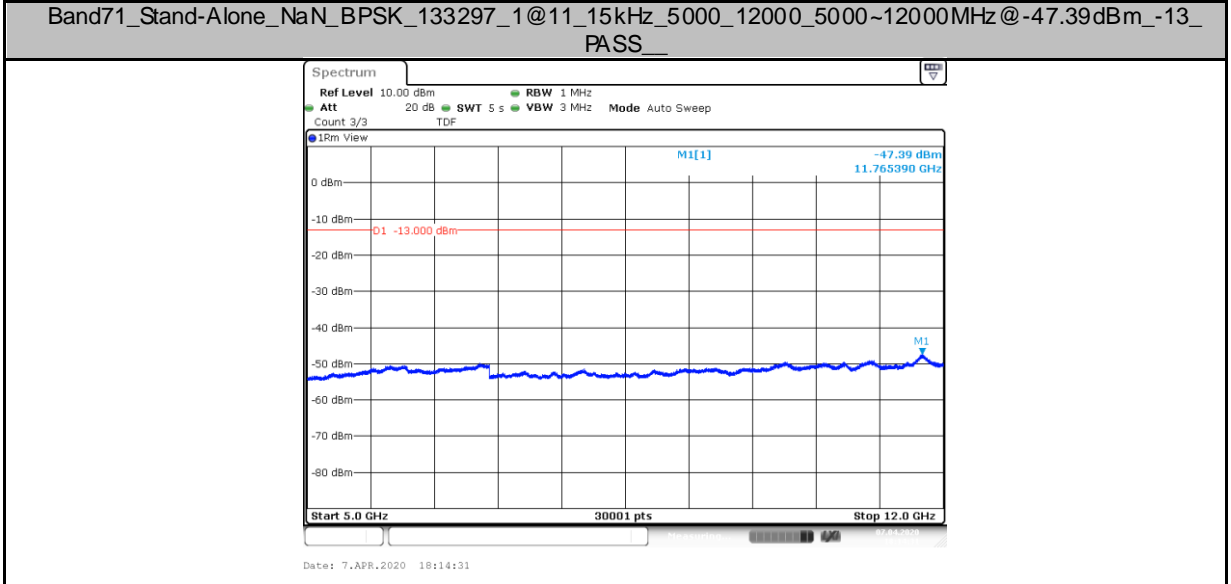
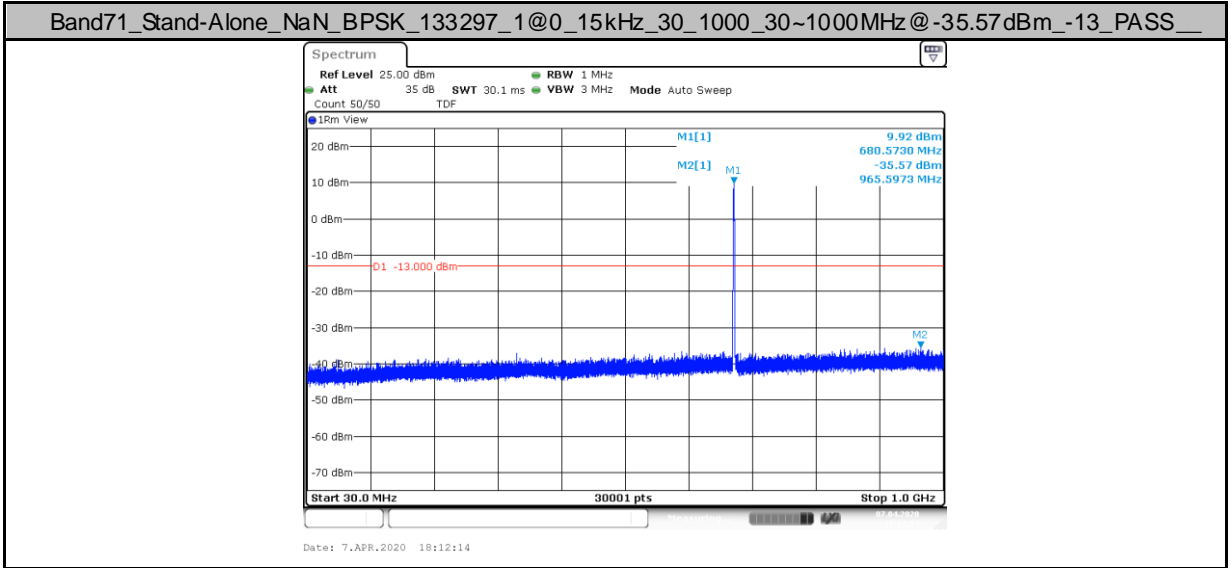


Date: 7.APR.2020 18:12:57

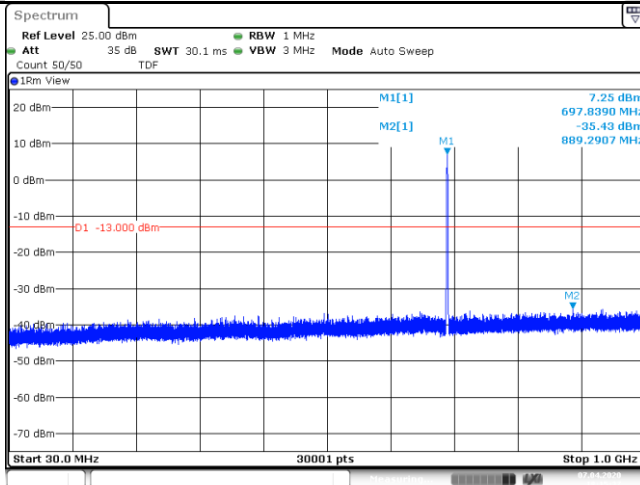
Band71\_Stand-Alone\_NaN\_BPSK\_133297\_1@0\_15kHz\_1000\_5000\_1000~5000MHz@-37.67dBm\_-13\_PASS



Date: 7.APR.2020 18:12:36

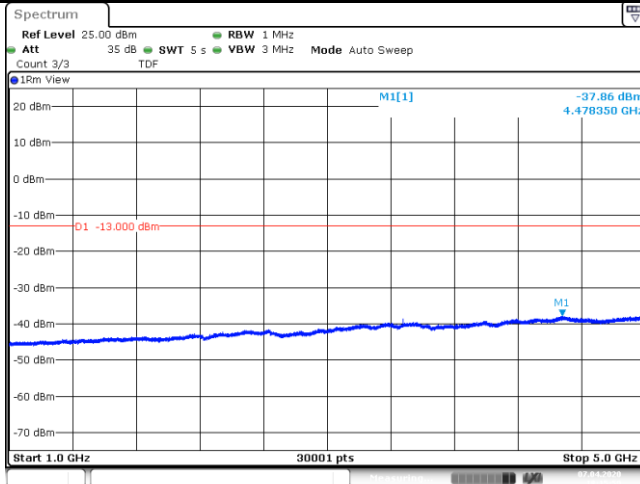


Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@0\_15kHz\_30\_1000\_30~1000MHz@-35.43dBm\_-13\_PASS\_\_



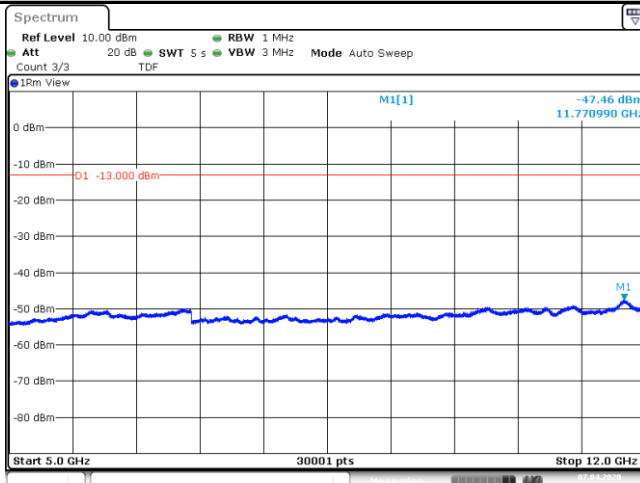
Date: 7.APR.2020 18:15:37

Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@0\_15kHz\_1000\_5000\_1000~5000MHz@-37.86dBm\_-13\_PAS S\_\_



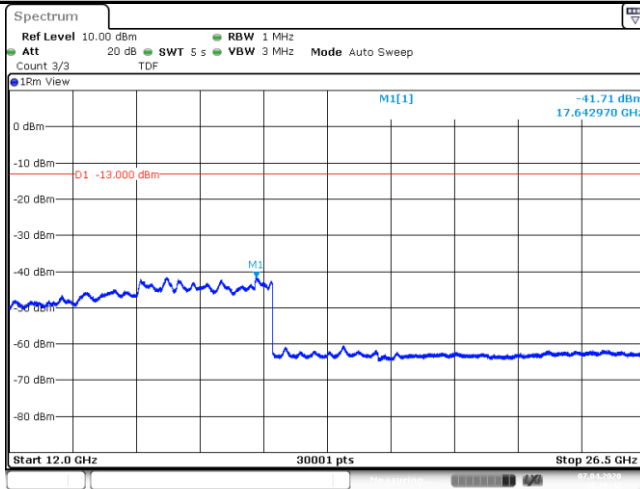
Date: 7.APR.2020 18:15:59

Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@0\_15kHz\_5000\_12000\_5000~12000MHz@-47.46dBm\_-13\_P ASS\_\_



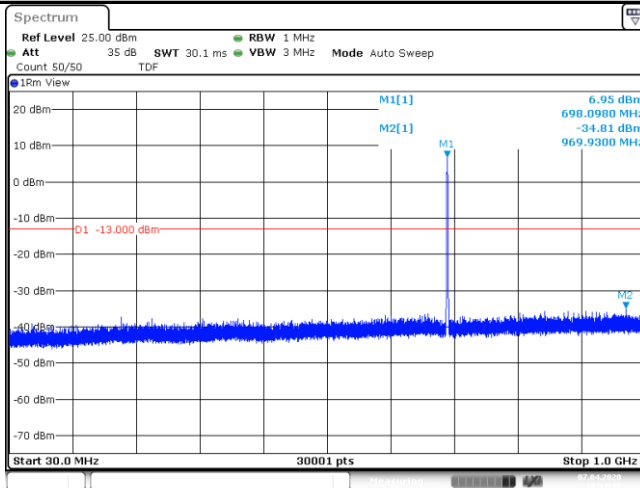
Date: 7.APR.2020 18:16:21

Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@0\_15kHz\_12000\_26500\_12000~26500MHz@-41.71dBm\_-13\_PASS



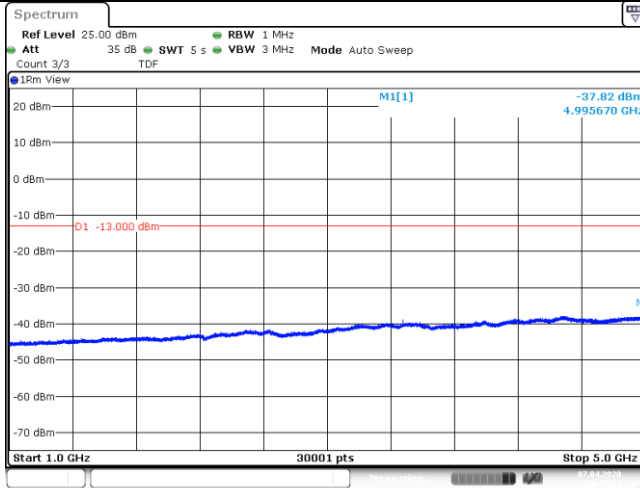
Date: 7.APR.2020 18:16:43

Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@11\_15kHz\_30\_1000\_30~1000MHz@-34.81dBm\_-13\_PASS

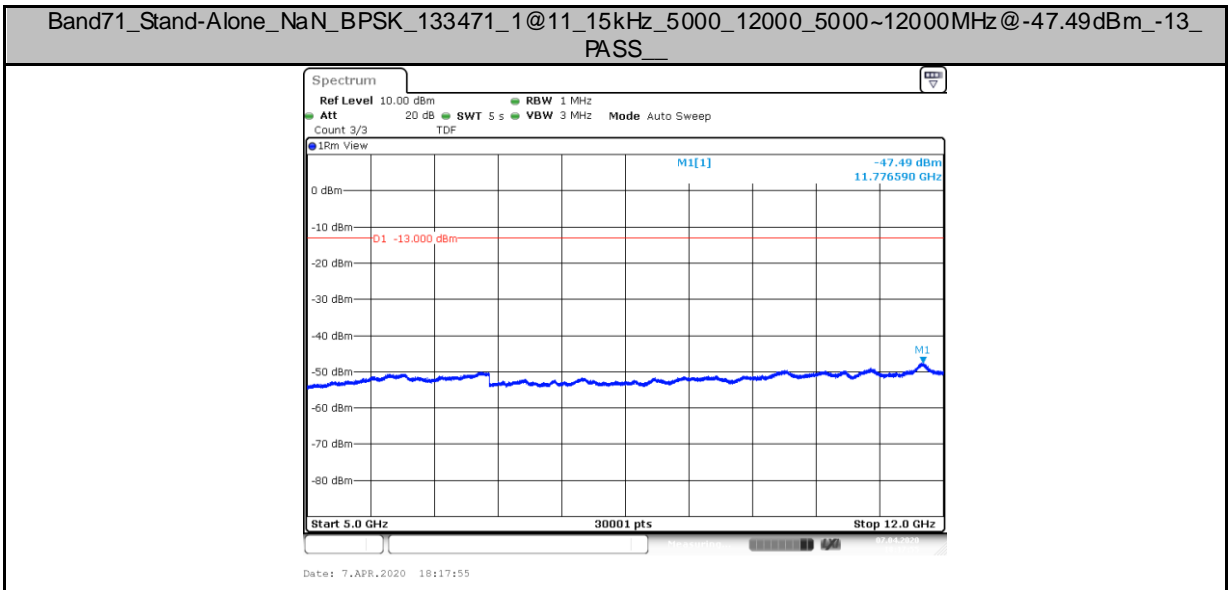


Date: 7.APR.2020 18:17:11

Band71\_Stand-Alone\_NaN\_BPSK\_133471\_1@11\_15kHz\_1000\_5000\_1000~5000MHz@-37.82dBm\_-13\_PASS



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



## 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



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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

# 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

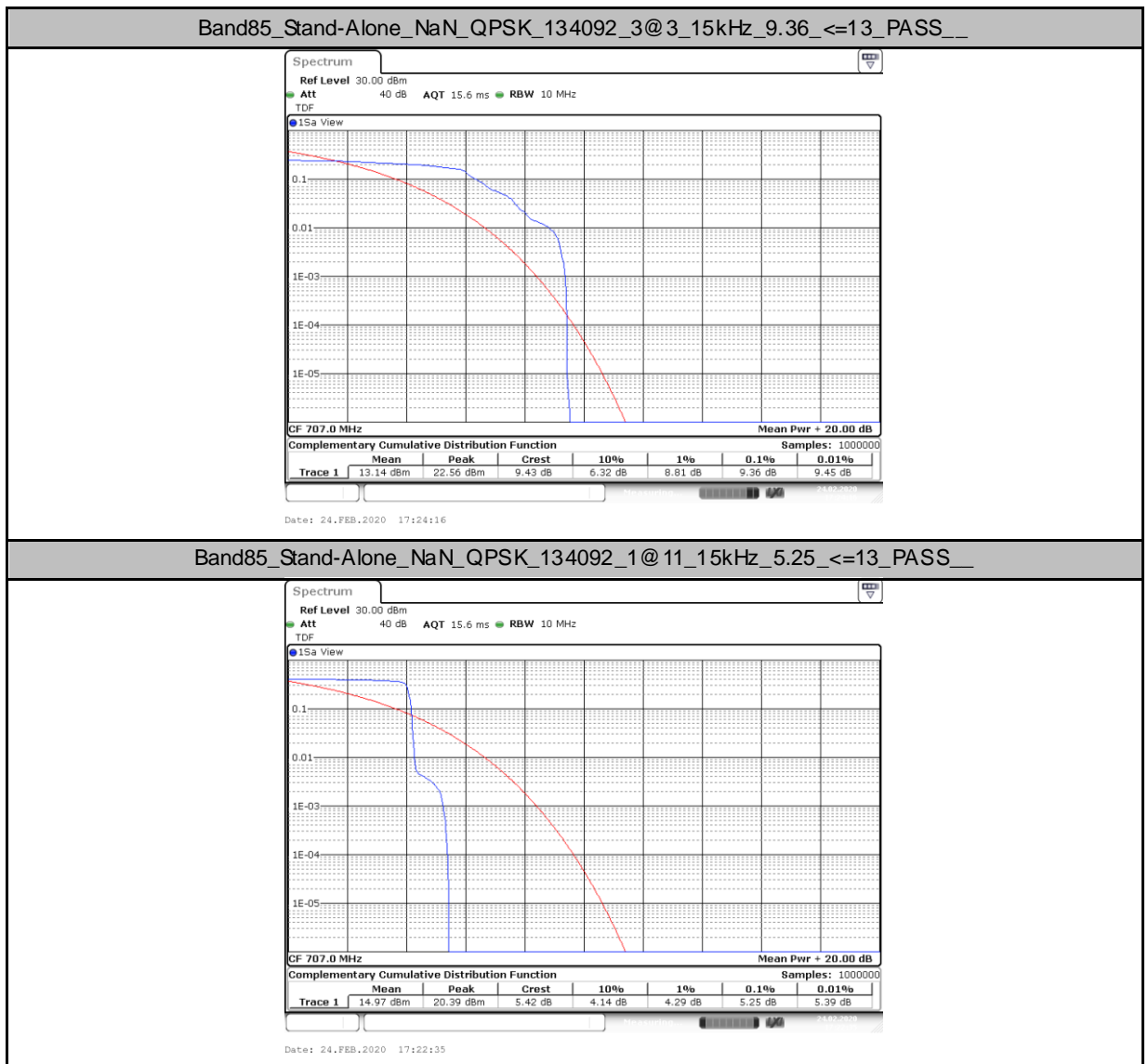
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result			Limit (watts)	Verdict
							dBm	dBm	Watts		
Band85	Stand-Along	NaN	QPSK	134003	1@0	15kHz	11.91	11.9	0.015	3	PASS
Band85	Stand-Along	NaN	QPSK	134003	1@11	15kHz	11.78	11.77	0.015	3	PASS
Band85	Stand-Along	NaN	QPSK	134003	3@3	15kHz	11.97	11.96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

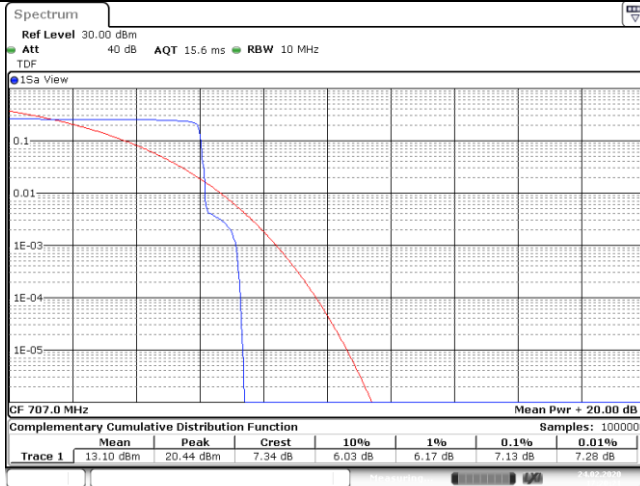
### Test Result

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

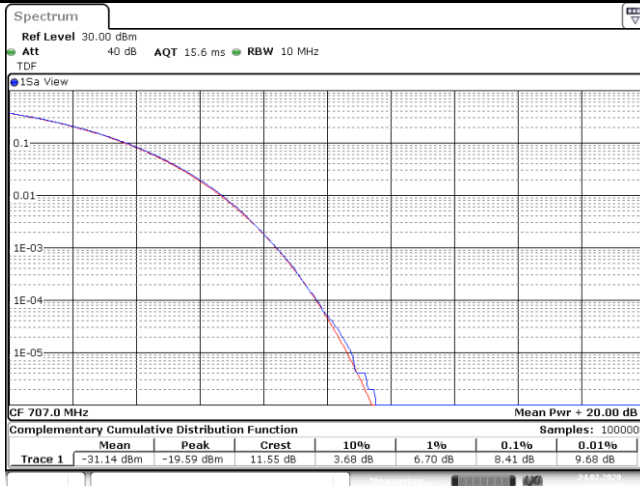


Band85\_Stand-Alone\_NaN\_QPSK\_134092\_1@0\_15kHz\_7.13\_<=13\_PASS\_\_



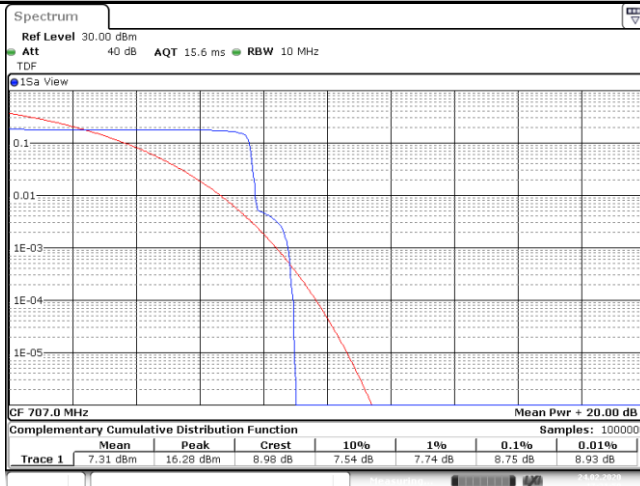
Date: 24.FEB.2020 17:20:21

Band85\_Stand-Alone\_NaN\_BPSK\_134092\_3@3\_15kHz\_8.41\_<=13\_PASS\_\_



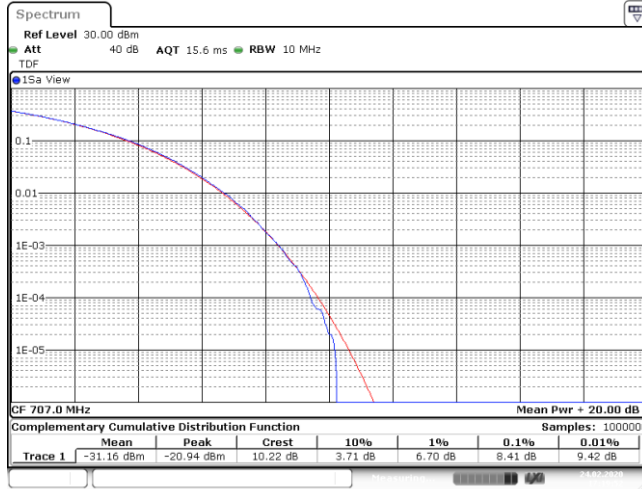
Date: 24.FEB.2020 17:23:47

Band85\_Stand-Alone\_NaN\_BPSK\_134092\_1@11\_15kHz\_8.75\_<=13\_PASS\_\_



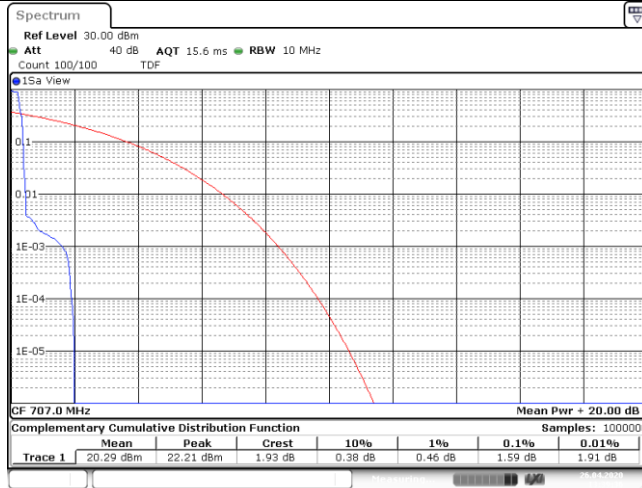
Date: 24.FEB.2020 17:21:50

Band85\_Stand-Alone\_NaN\_BPSK\_134092\_1@0\_15kHz\_8.41\_<=13\_PASS\_\_



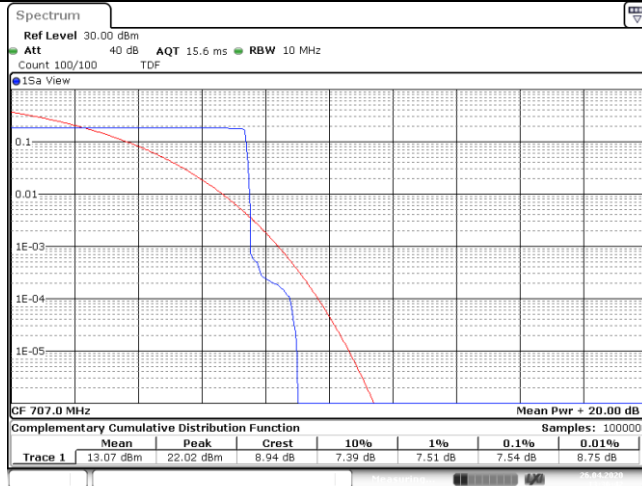
Date: 24.FEB.2020 17:19:52

Band85\_Stand-Alone\_NaN\_QPSK\_134092\_1@47\_3.75kHz\_1.59\_<=13\_PASS\_\_



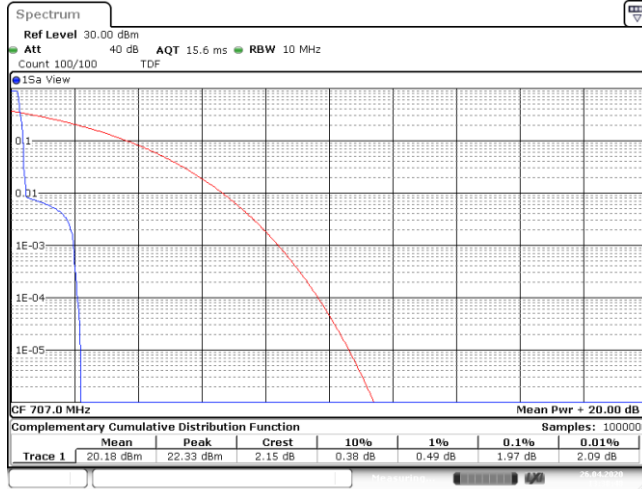
Date: 26.APR.2020 13:39:37

Band85\_Stand-Alone\_NaN\_QPSK\_134092\_1@0\_3.75kHz\_7.54\_<=13\_PASS\_\_



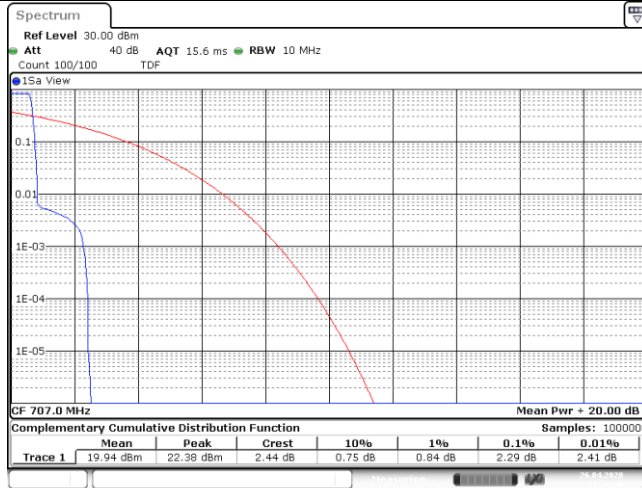
Date: 26.APR.2020 13:36:43

Band85\_Stand-Alone\_NaN\_BPSK\_134092\_1@47\_3.75kHz\_1.97\_<=13\_PASS\_\_



Date: 26.APR.2020 13:38:48

Band85\_Stand-Alone\_NaN\_BPSK\_134092\_1@0\_3.75kHz\_2.29\_<=13\_PASS\_\_



Date: 26.APR.2020 13:34:37

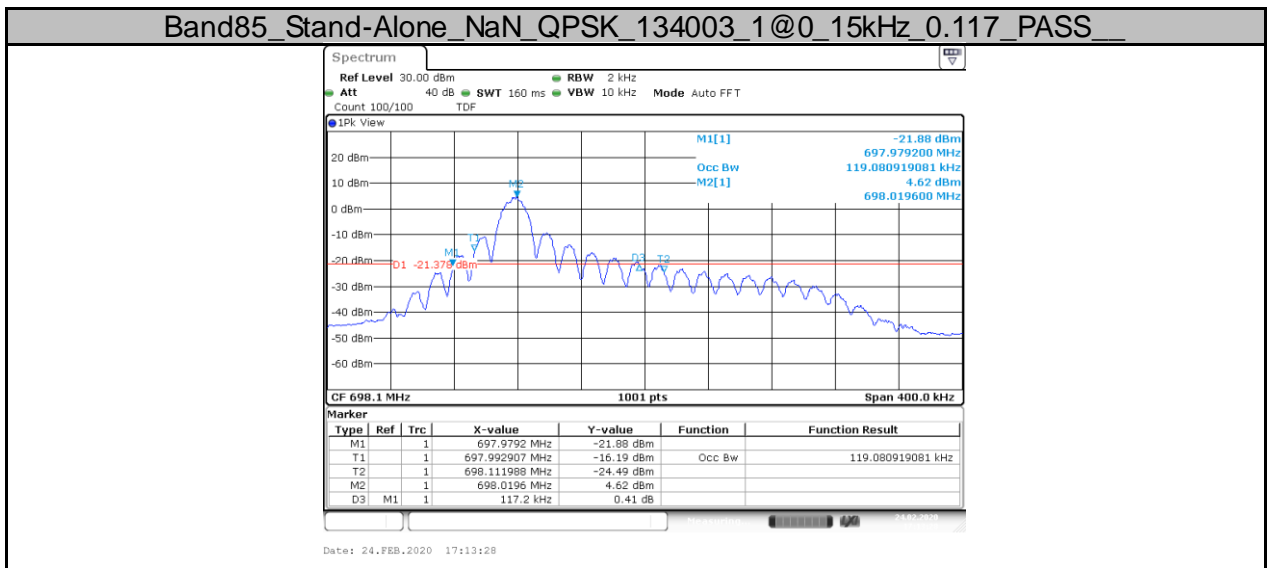


## Appendix K.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

### Test Result

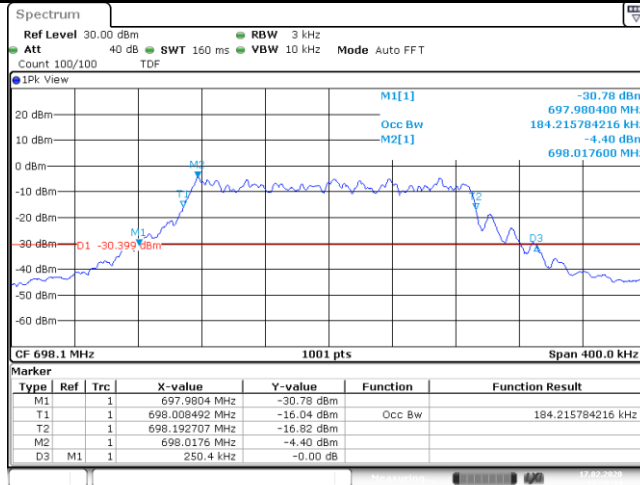
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	1@0	15kHz	0.117	0.119	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	0.250	0.184	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	15kHz	0.117	0.119	PASS
Band85	Stand-Alone	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



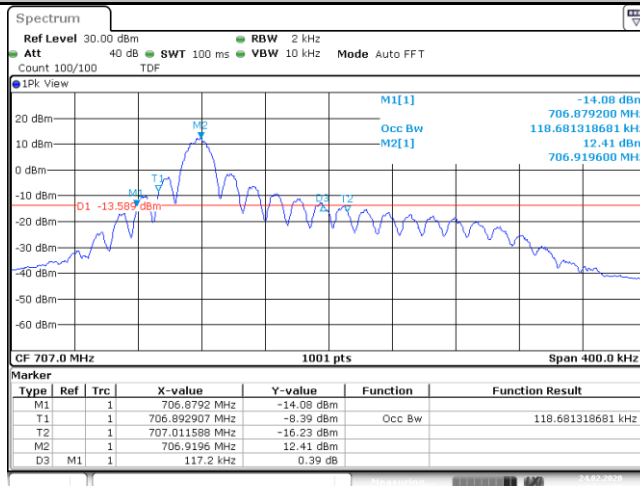


Band85\_Stand-Along\_NaN\_QPSK\_134003\_12@0\_15kHz\_0.250\_PASS



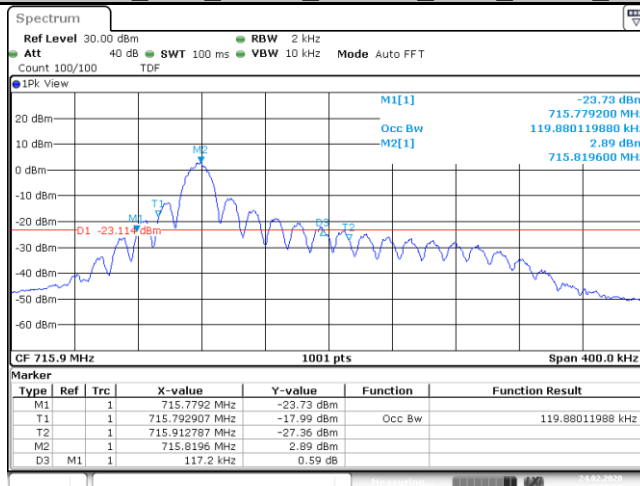
Date: 17.FEB.2020 17:38:34

Band85\_Stand-Along\_NaN\_QPSK\_134092\_1@0\_15kHz\_0.117\_PASS



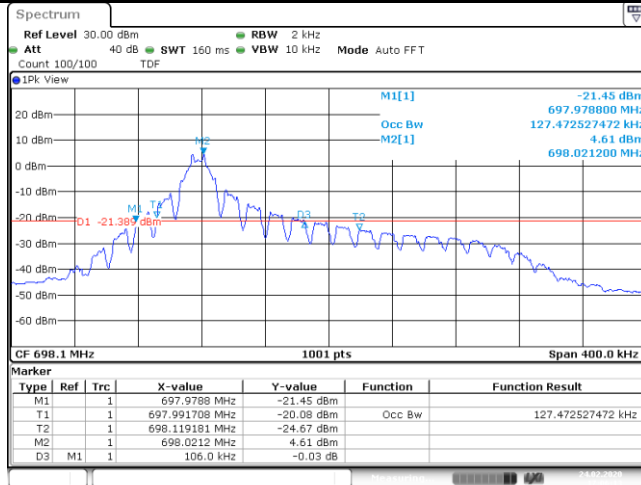
Date: 24.FEB.2020 17:14:05

Band85\_Stand-Along\_NaN\_QPSK\_134181\_1@0\_15kHz\_0.117\_PASS



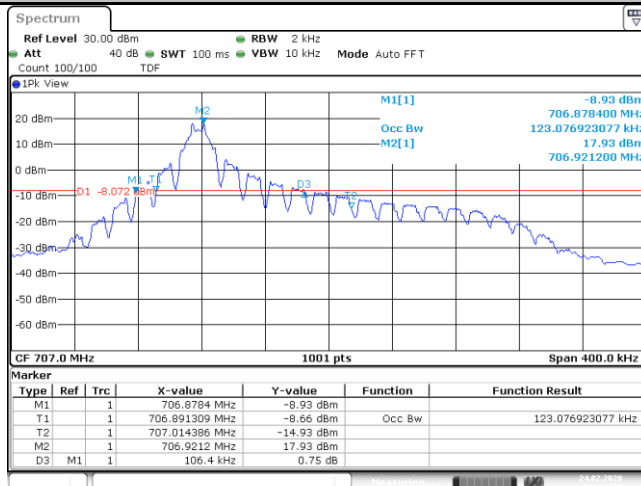
Date: 24.FEB.2020 17:16:58

Band85\_Stand-Along\_NaN\_BPSK\_134003\_1@0\_15kHz\_0.106\_PASS



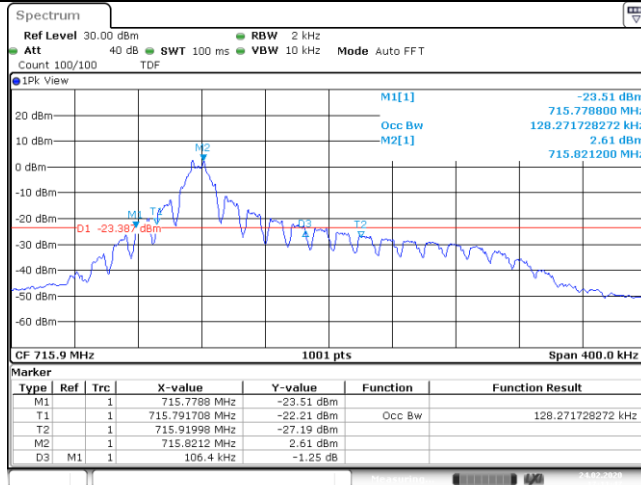
Date: 24.FEB.2020 17:06:13

Band85\_Stand-Along\_NaN\_BPSK\_134092\_1@0\_15kHz\_0.106\_PASS



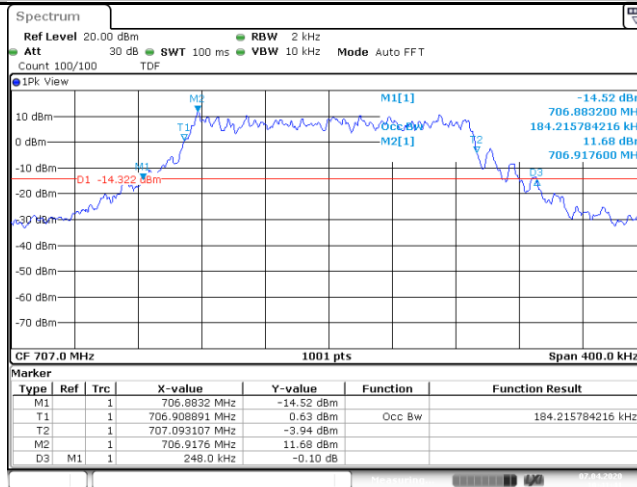
Date: 24.FEB.2020 17:11:19

Band85\_Stand-Along\_NaN\_BPSK\_134181\_1@0\_15kHz\_0.106\_PASS



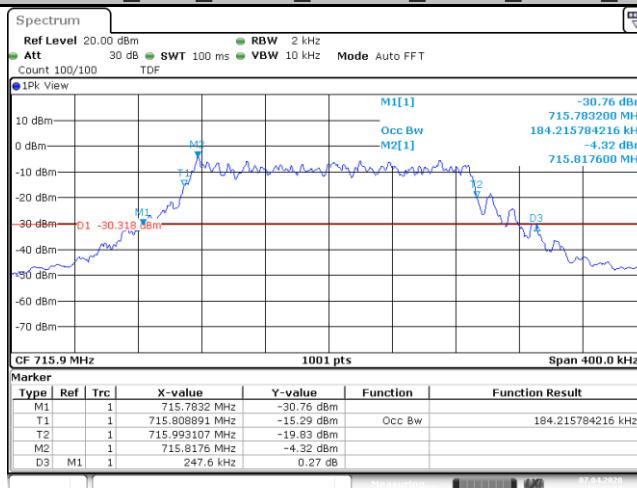
Date: 24.FEB.2020 17:11:47

Band85\_Stand-Alone\_NaN\_QPSK\_134092\_12@0\_15kHz\_0.248\_PASS



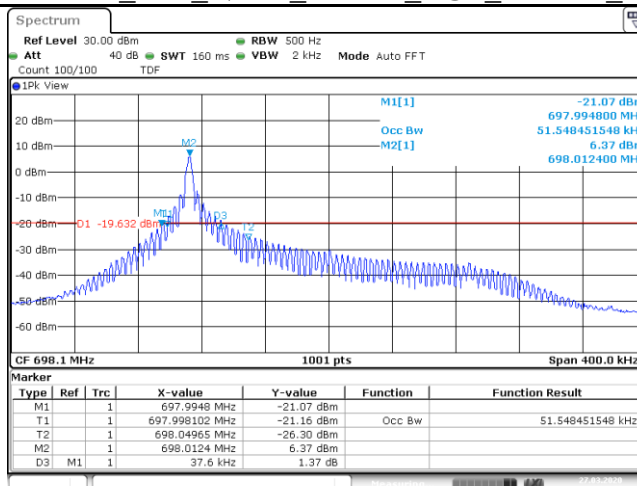
Date: 7.APR.2020 10:41:42

Band85\_Stand-Alone\_NaN\_QPSK\_134181\_12@0\_15kHz\_0.248\_PASS



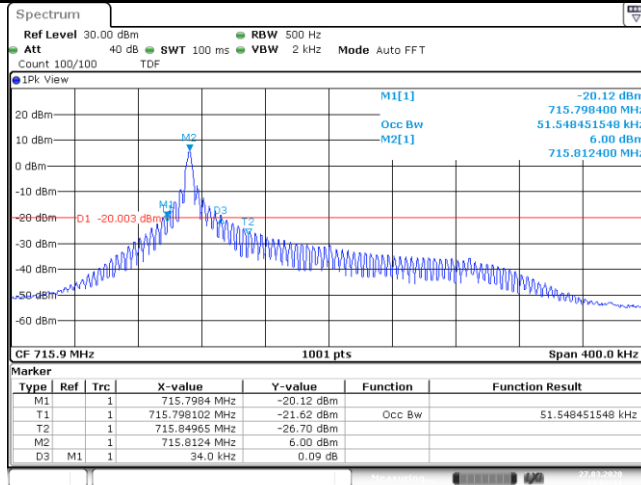
Date: 7.APR.2020 10:42:18

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@0\_3.75kHz\_0.038\_PASS



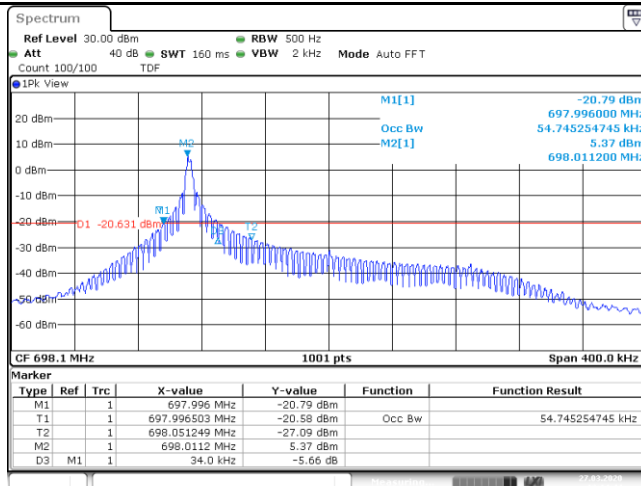
Date: 27.MAR.2020 13:01:55

Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@0\_3.75kHz\_0.034\_PASS



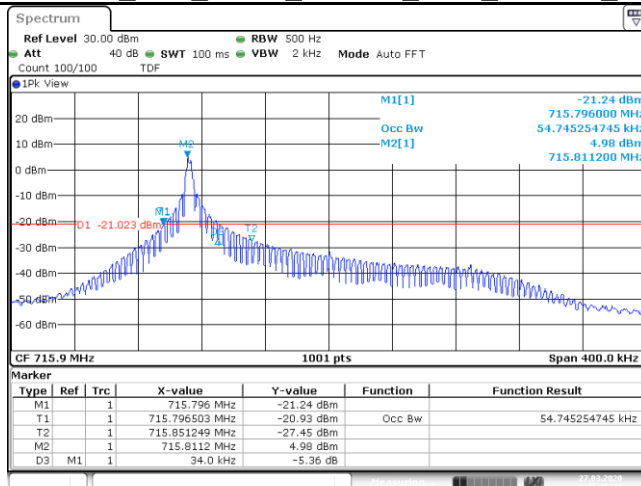
Date: 27.MAR.2020 13:02:32

Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@0\_3.75kHz\_0.034\_PASS



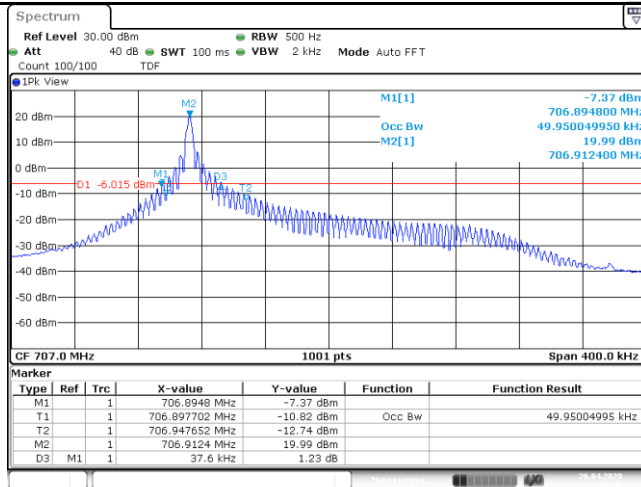
Date: 27.MAR.2020 13:14:44

Band85\_Stand-Alone\_NaN\_BPSK\_134181\_1@0\_3.75kHz\_0.034\_PASS



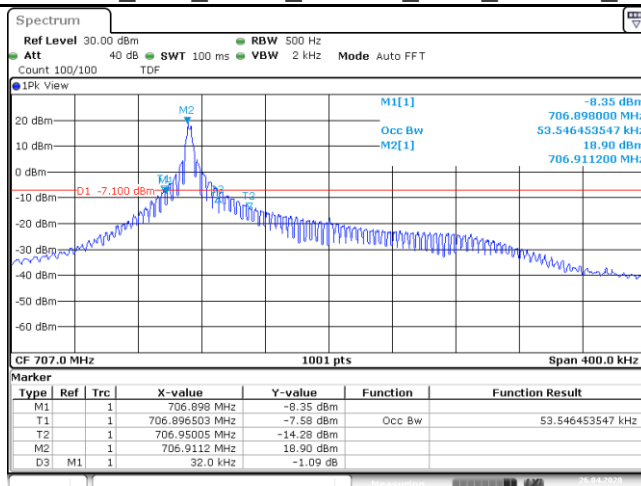
Date: 27.MAR.2020 13:15:21

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\_\_



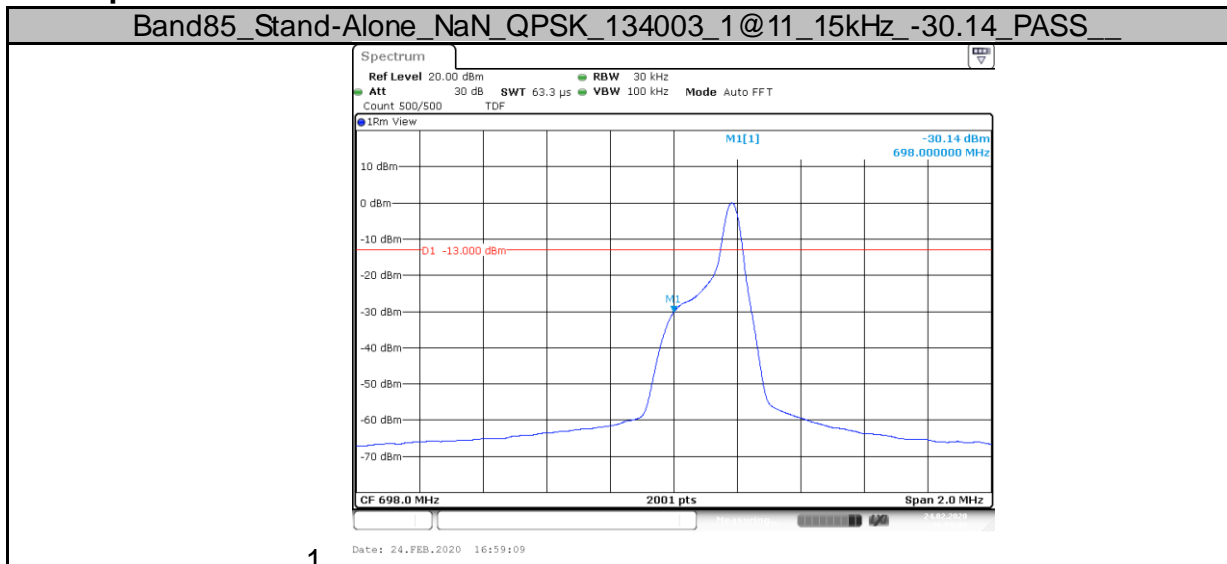
Date: 26.APR.2020 12:32:54

## Appendix K.4: Band Edge for NB

### Test Result

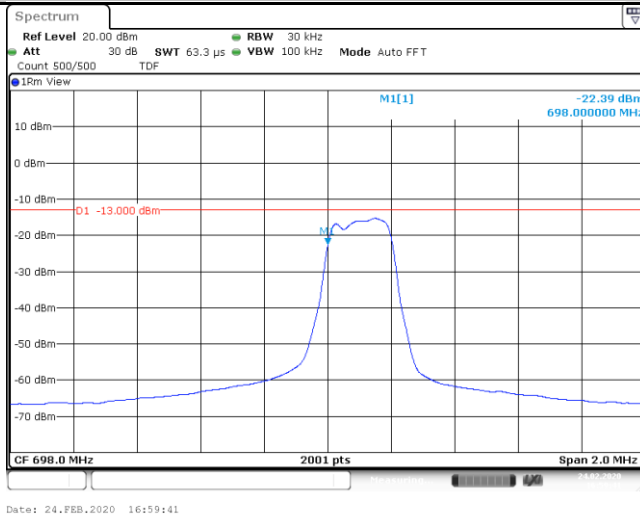
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	1@11	15kHz	-30.14	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	-22.39	PASS
Band85	Stand-Alone	NaN	QPSK	134003	1@0	15kHz	-16.19	PASS
Band85	Stand-Alone	NaN	QPSK	134181	1@0	15kHz	-32.30	PASS
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

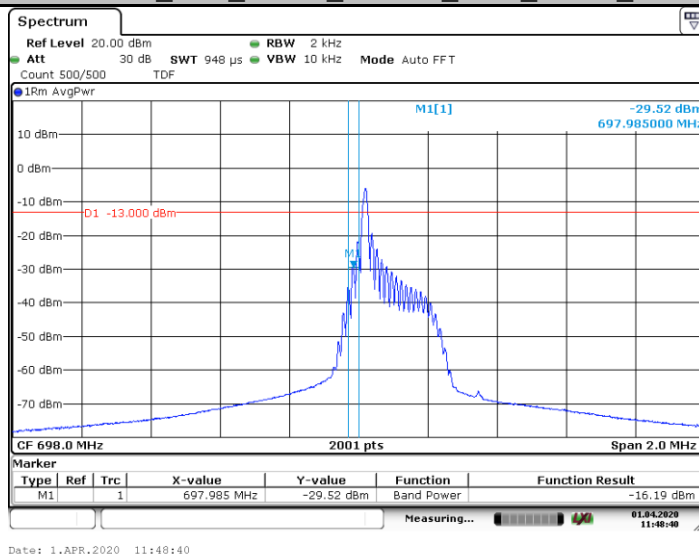


1.

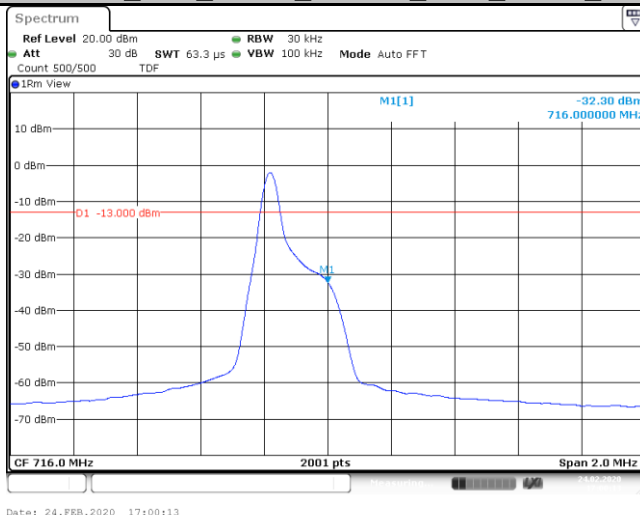
Band85\_Stand-Alone\_NaN\_QPSK\_134003\_12@0\_15kHz\_-22.39\_PASS



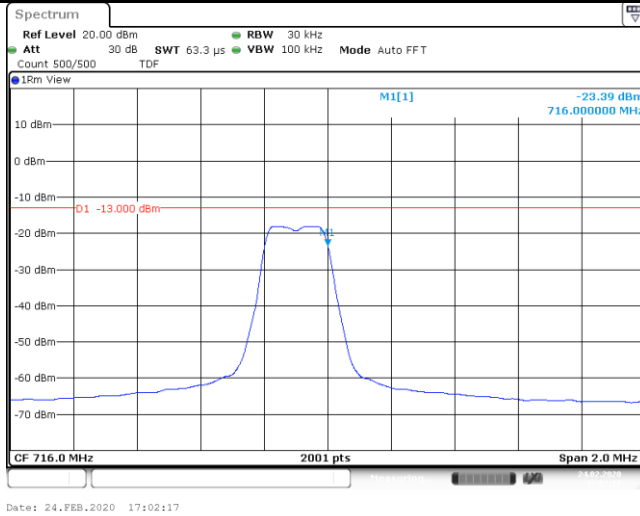
Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@0\_15kHz\_-16.19\_PASS



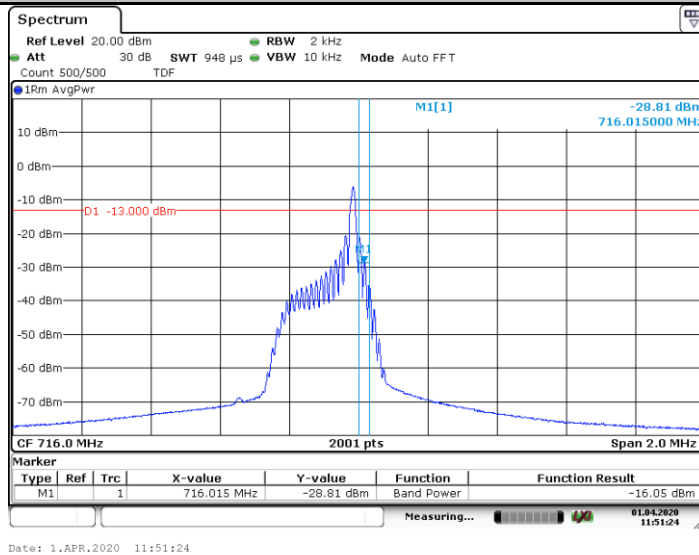
Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@0\_15kHz\_-32.30\_PASS



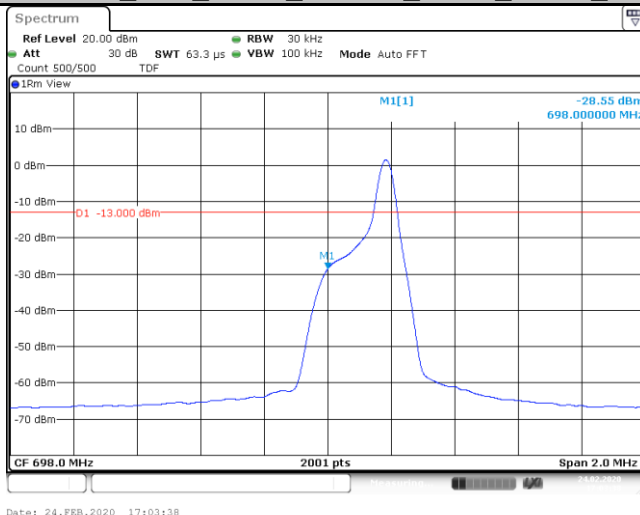
Band85\_Stand-Alone\_NaN\_QPSK\_134181\_12@0\_15kHz\_-23.39\_PASS



Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@11\_15kHz\_-16.05\_PASS

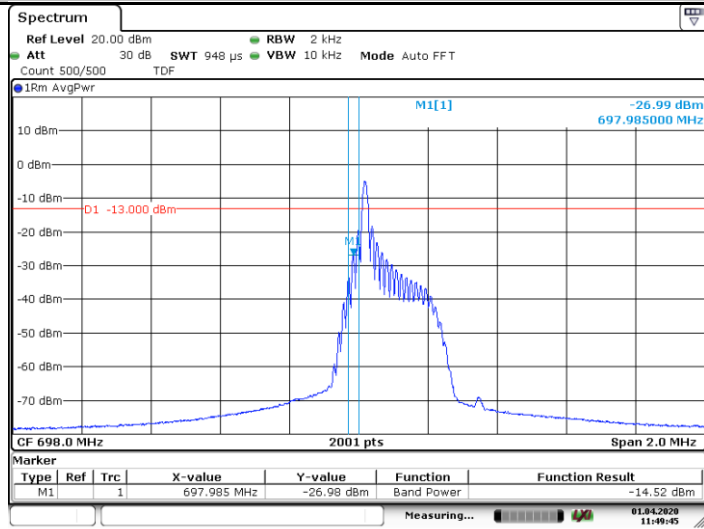


Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@11\_15kHz\_-28.55\_PASS



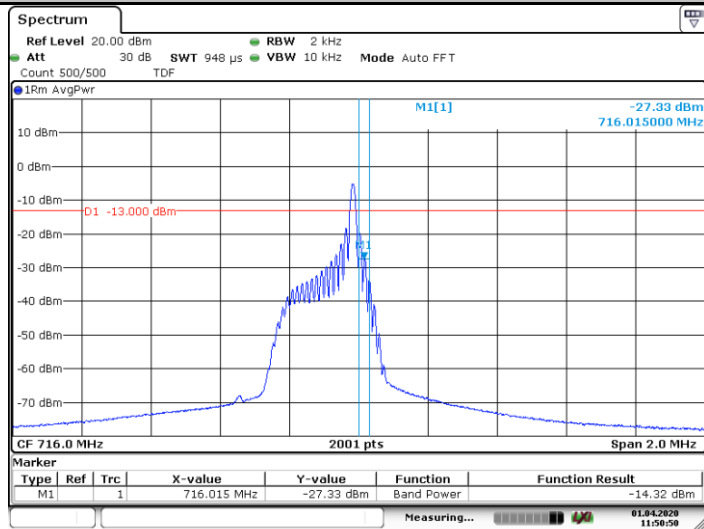


Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@0\_15kHz\_-14.52\_PASS



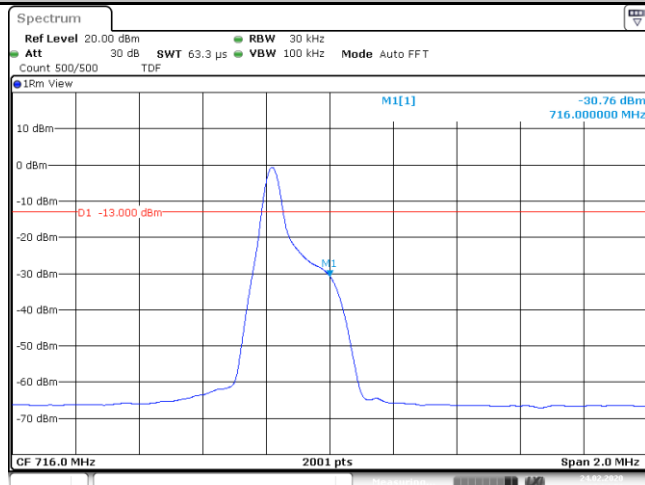
Date: 1.APR.2020 11:49:45

Band85\_Stand-Alone\_NaN\_BPSK\_134181\_1@11\_15kHz\_-14.32\_PASS

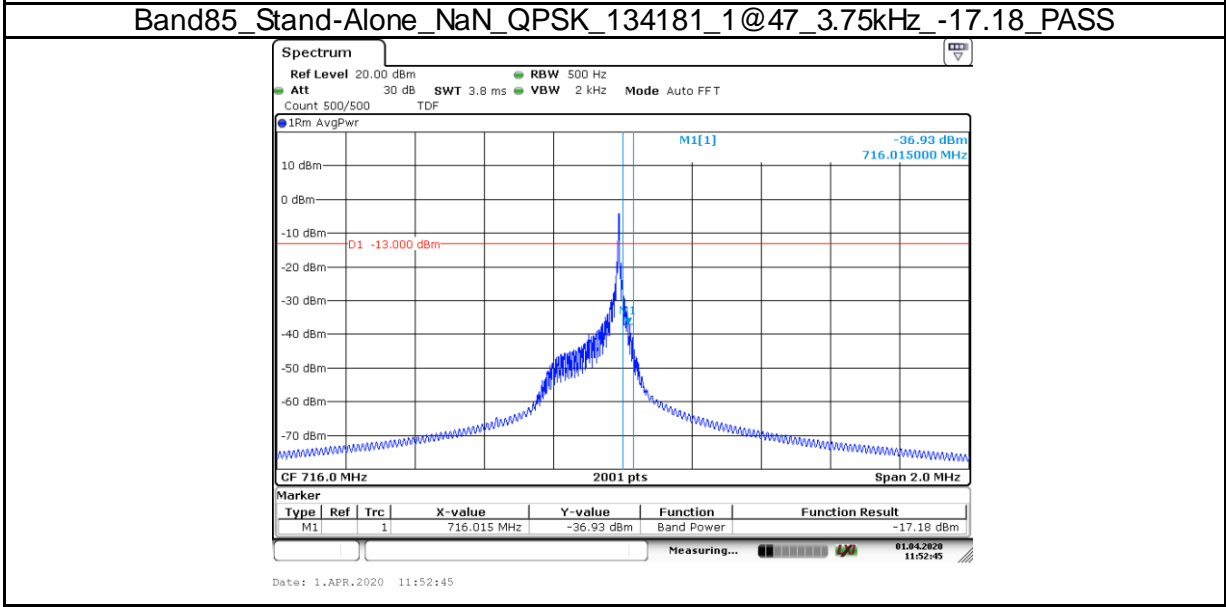
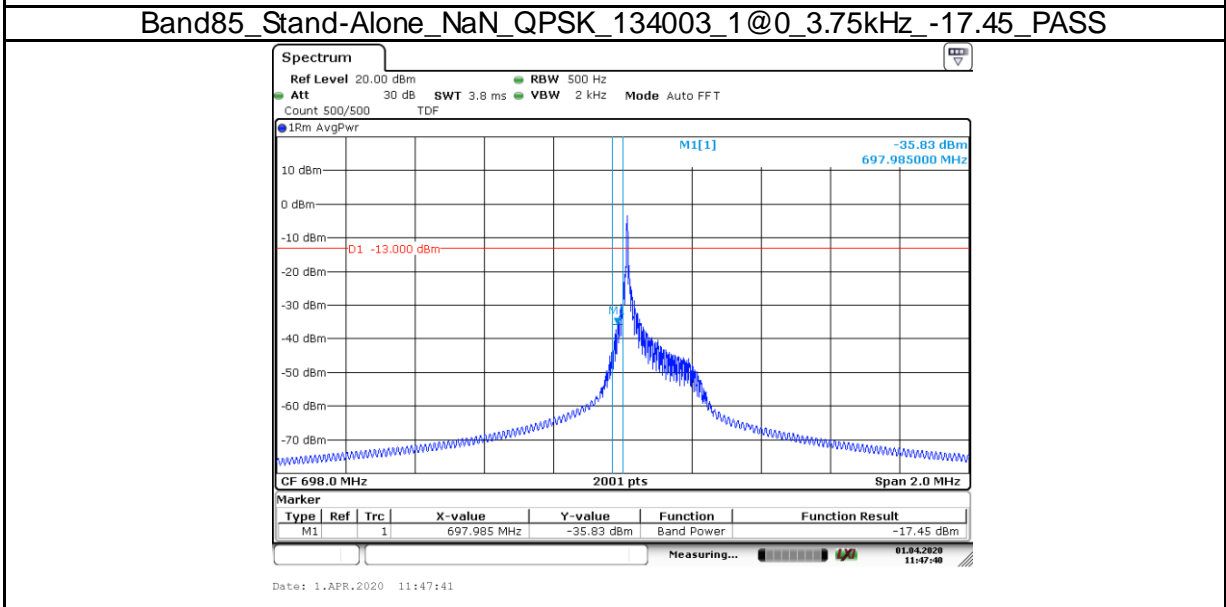
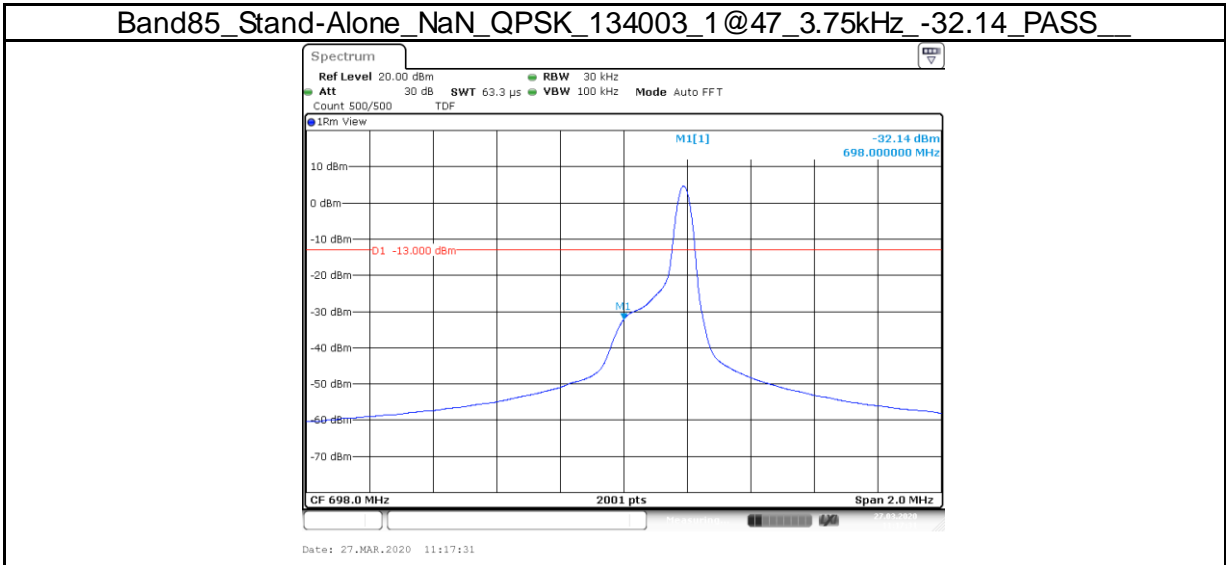


Date: 1.APR.2020 11:50:50

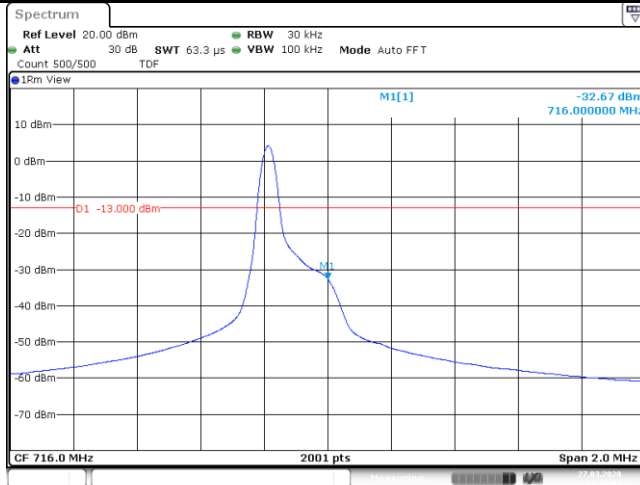
Band85\_Stand-Alone\_NaN\_BPSK\_134181\_1@0\_15kHz\_-30.76\_PASS



Date: 24.FEB.2020 17:04:53

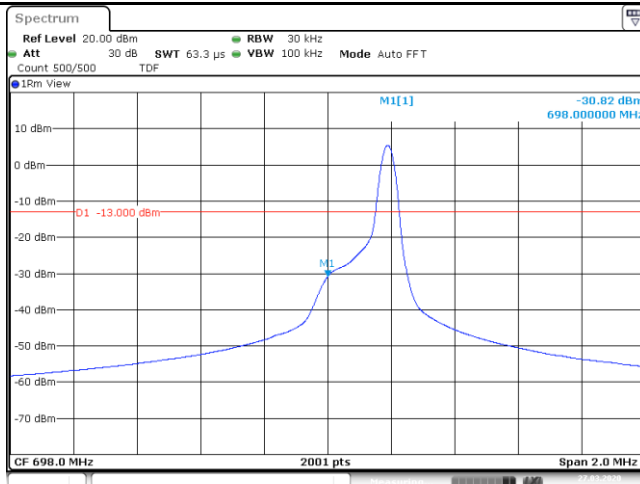


Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@0\_3.75kHz\_-32.67\_PASS



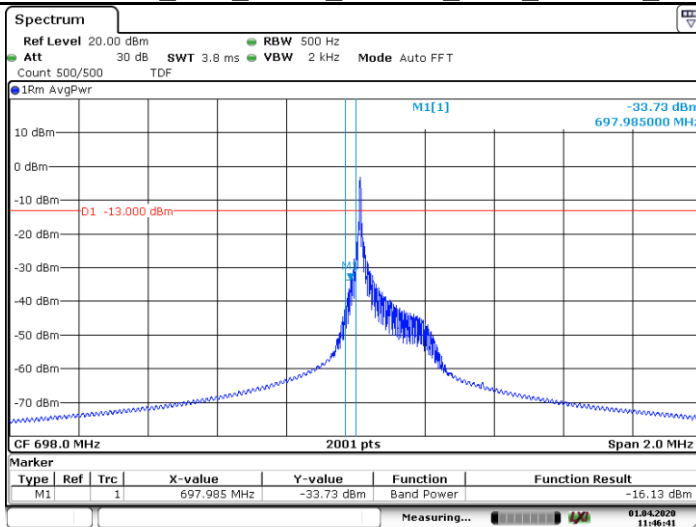
Date: 27.MAR.2020 11:18:05

Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@47\_3.75kHz\_-30.82\_PASS



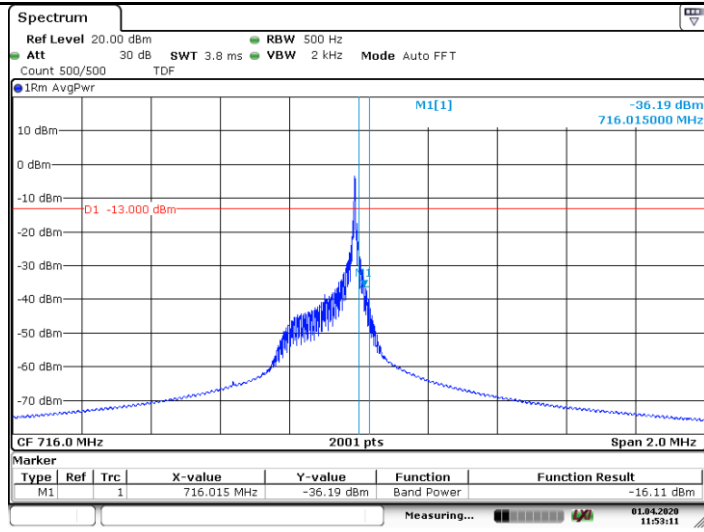
Date: 27.MAR.2020 12:20:36

Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@0\_3.75kHz\_-16.13\_PASS



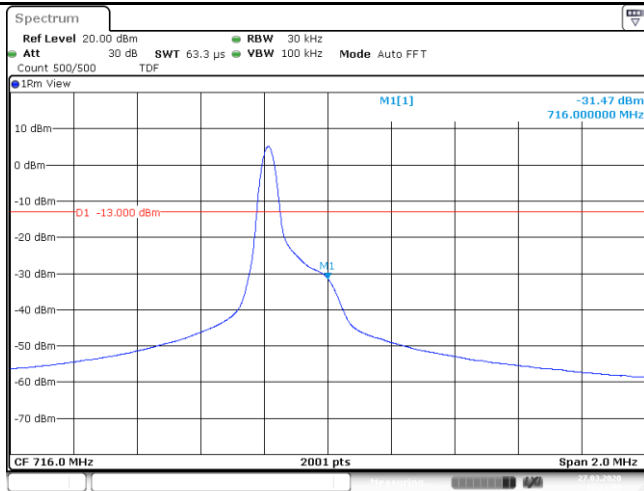
Date: 1.APR.2020 11:46:41

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

Produkte  
Products

## Appendix K.5: Conducted Spurious Emission for NB

### Test Result

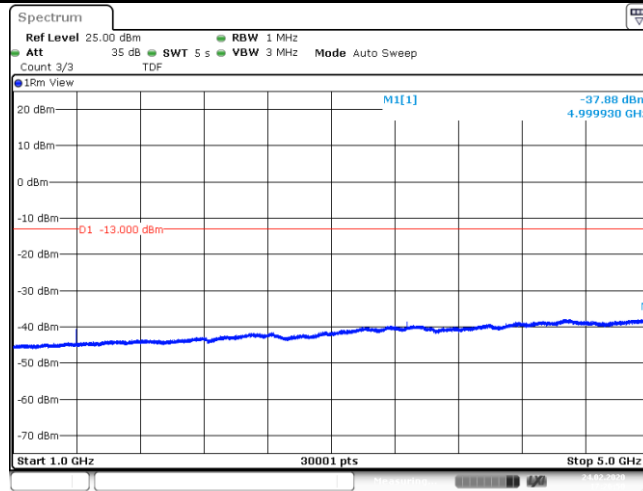
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	1000	5000	1000-5000MHz@-37.88dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134003	12@0	15kHz	5000	12000	5000-12000MHz@-47.61dBm	-13	PASS
Band85	Stand-Alone	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

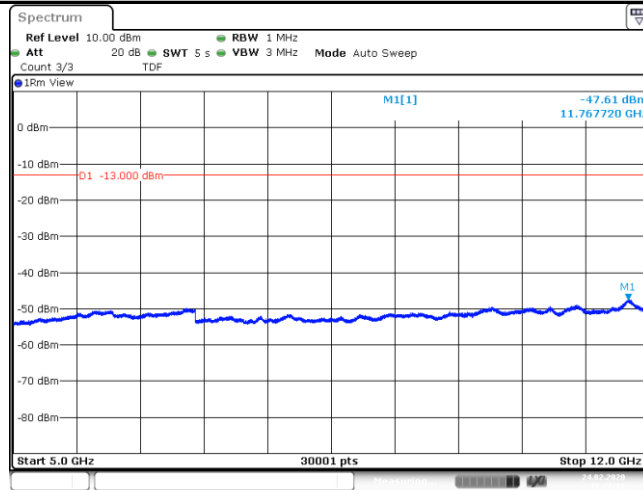
Band85	Stand-Alone	NaN	QPSK	134092	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.7dBm	-13	PASS
Band85	Stand-Alone	NaN	QPSK	134092	1@0	3.75kHz	30	1000	30~1000MHz@-35.87dBm	-13	PASS

### Test Graphs

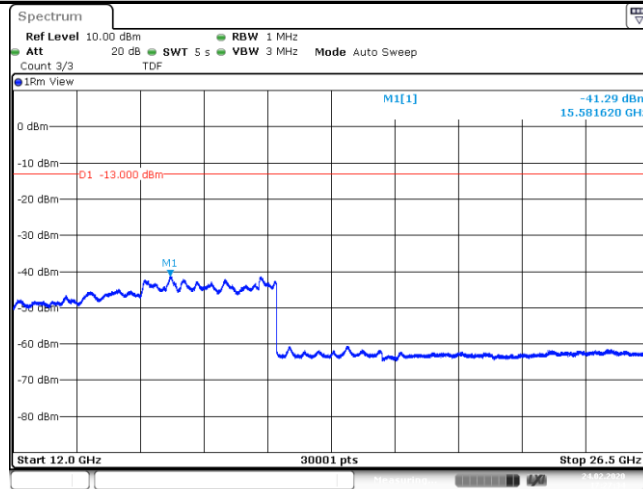
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Band85\_Stand-Alone\_NaN\_QPSK\_134003\_12@0\_15kHz\_5000\_12000\_5000~12000MHz@-47.61dBm\_-13\_PAS S\_

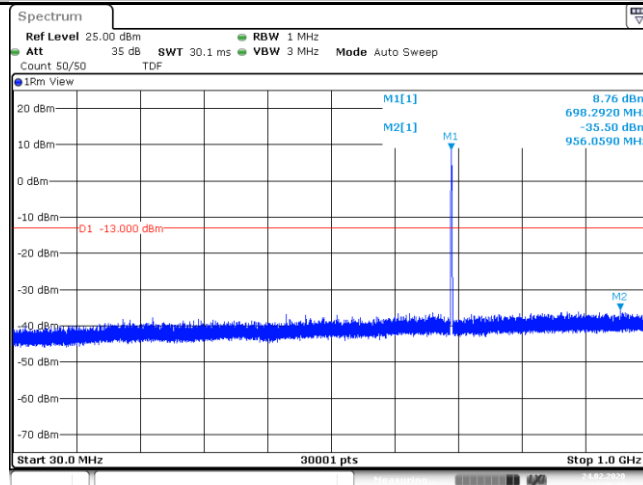


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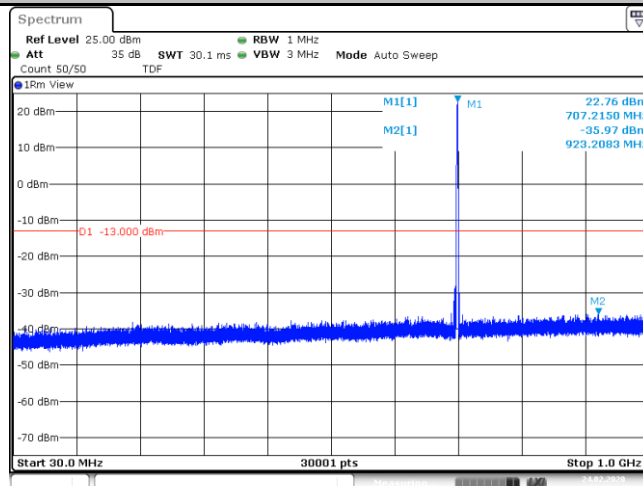
Date: 24.FEB.2020 17:27:34

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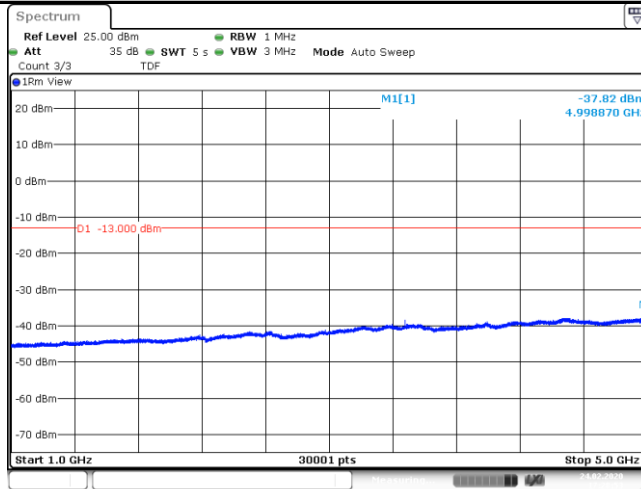
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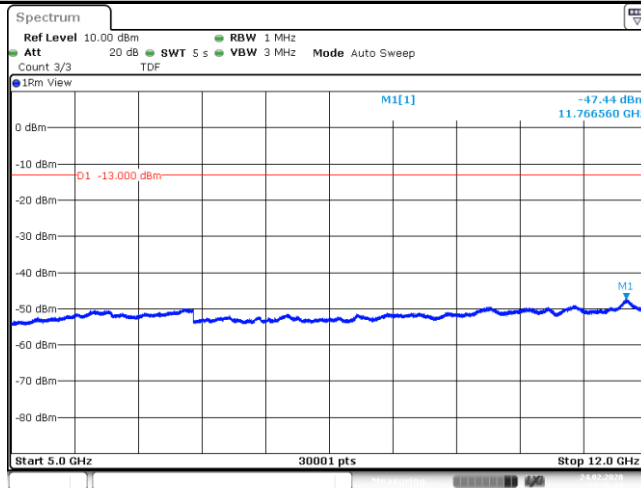
Date: 24.FEB.2020 17:28:31

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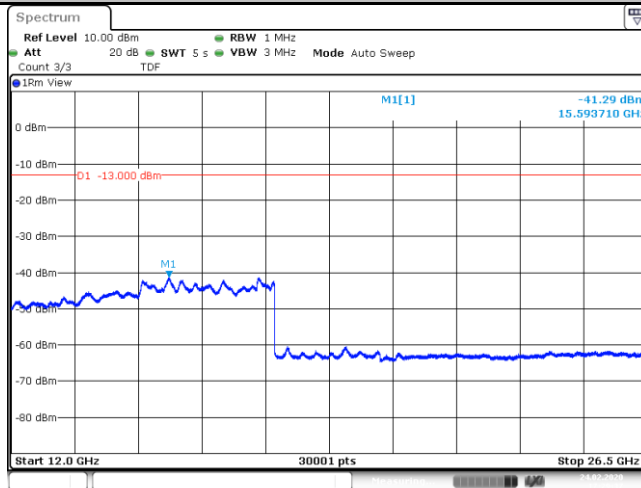
Date: 24.FEB.2020 17:28:53

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S\_



Date: 24.FEB.2020 17:29:15

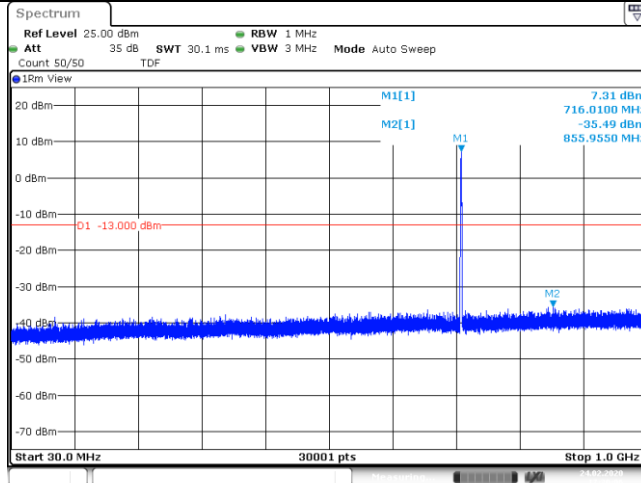
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Date: 24.FEB.2020 17:29:37

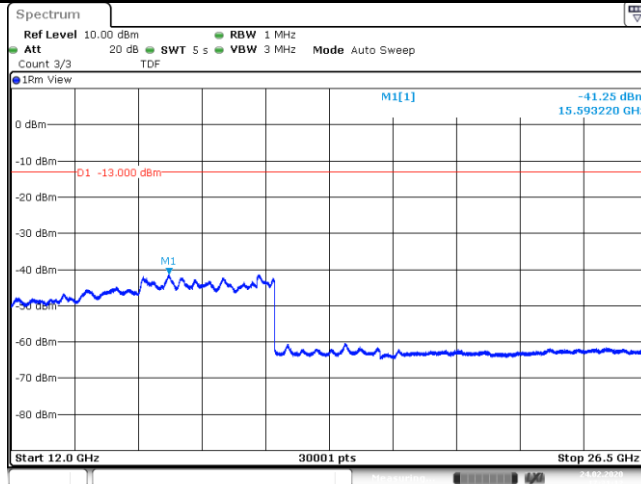


Band85\_Stand-Alone\_NaN\_QPSK\_134181\_12@0\_15kHz\_30\_1000\_30~1000MHz@-35.49dBm\_-13\_PASS\_\_



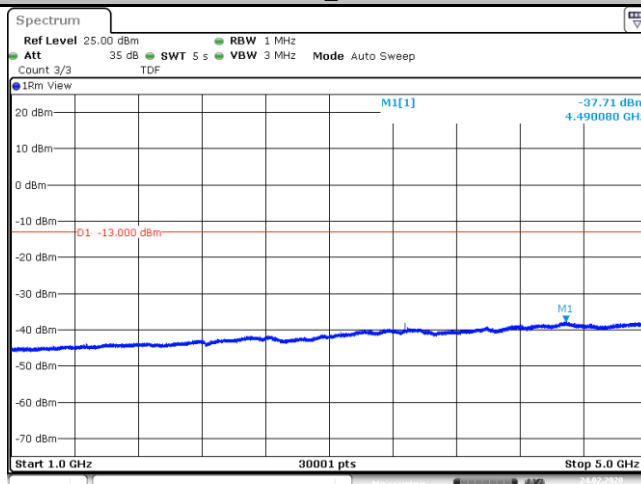
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SS\_\_



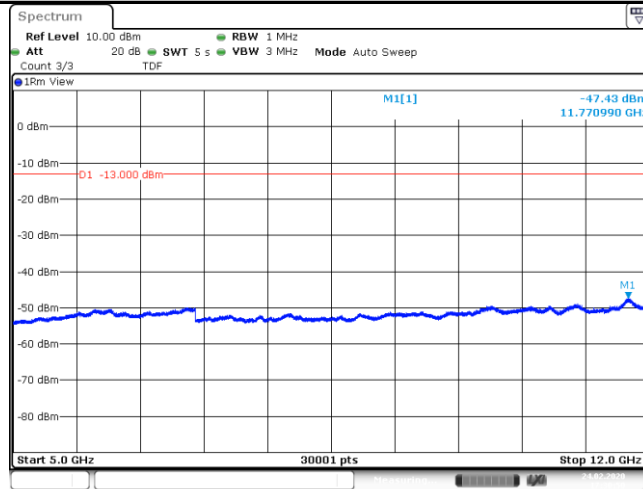
Date: 24.FEB.2020 17:31:12

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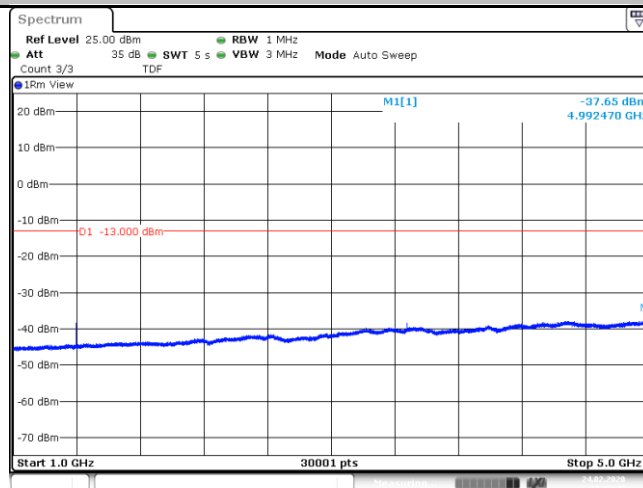
Date: 24.FEB.2020 17:30:28

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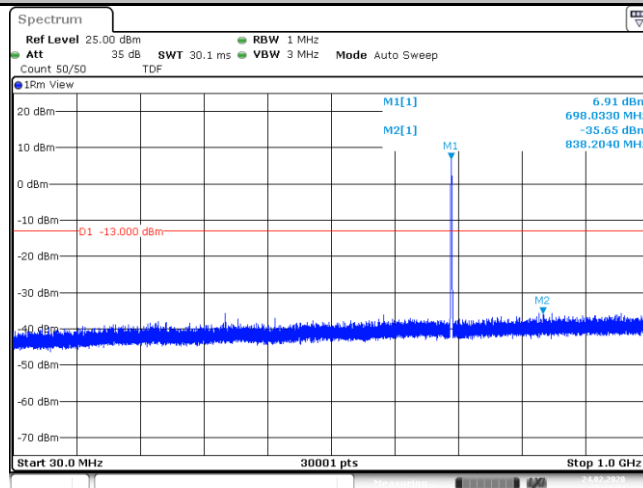
Date: 24.FEB.2020 17:30:50

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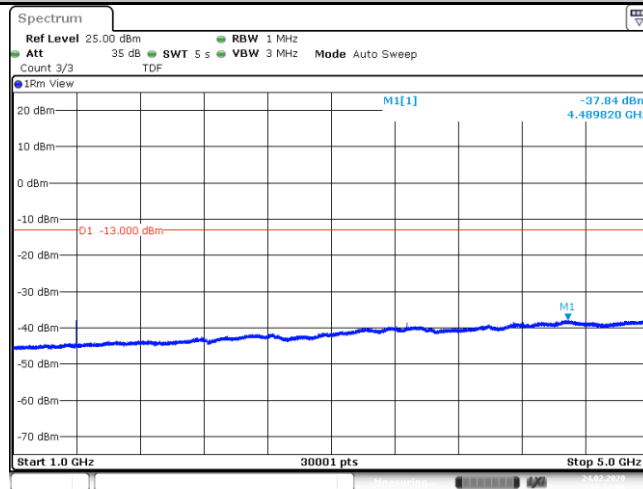
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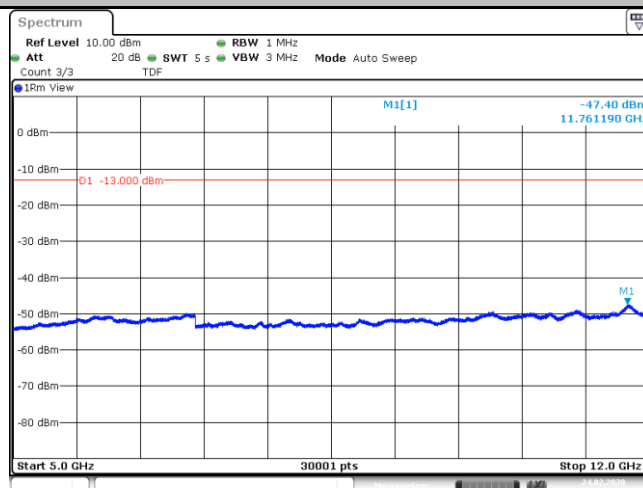
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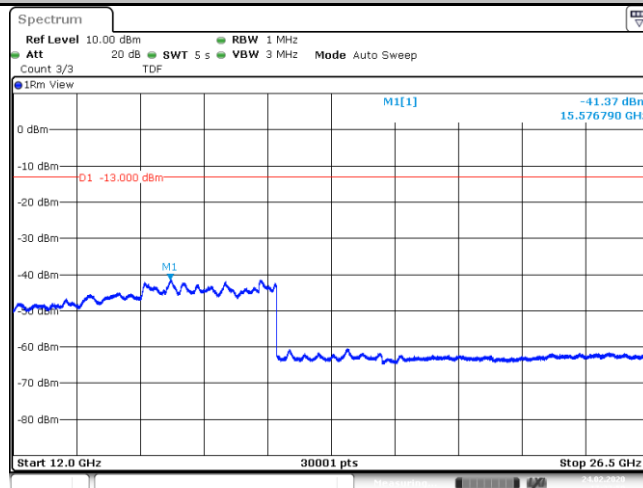
Date: 24.FEB.2020 17:32:06

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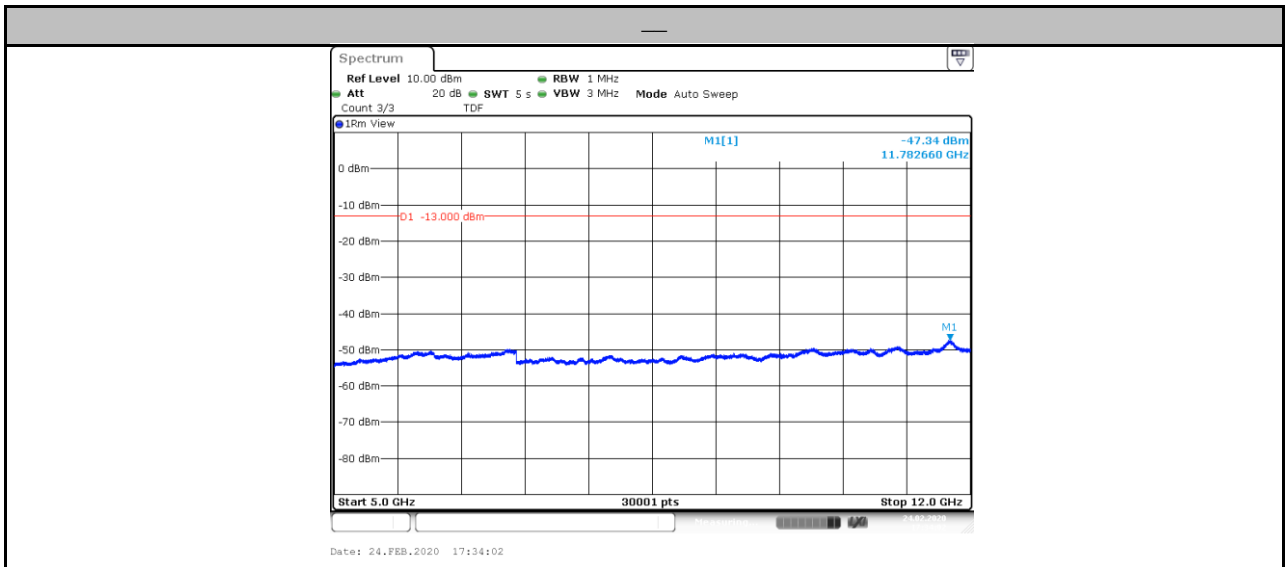
Date: 24.FEB.2020 17:32:28

Band85\_Stand-Alone\_NaN\_BPSK\_134003\_1@0\_15kHz\_12000\_26500\_12000~26500MHz@-41.37dBm\_-13\_PAS  
S\_

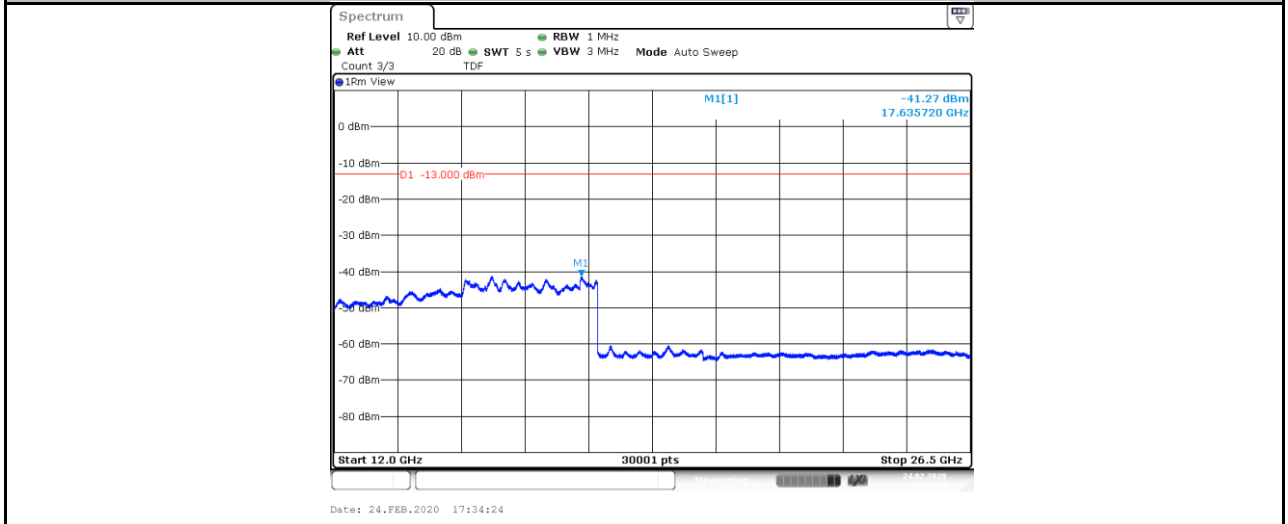


Date: 24.FEB.2020 17:32:50

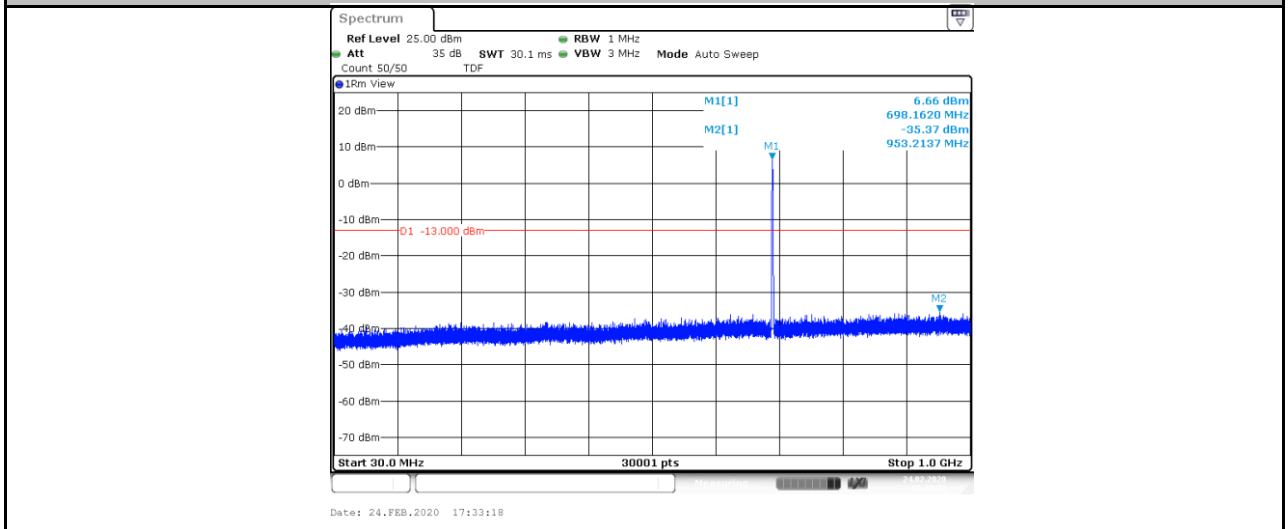
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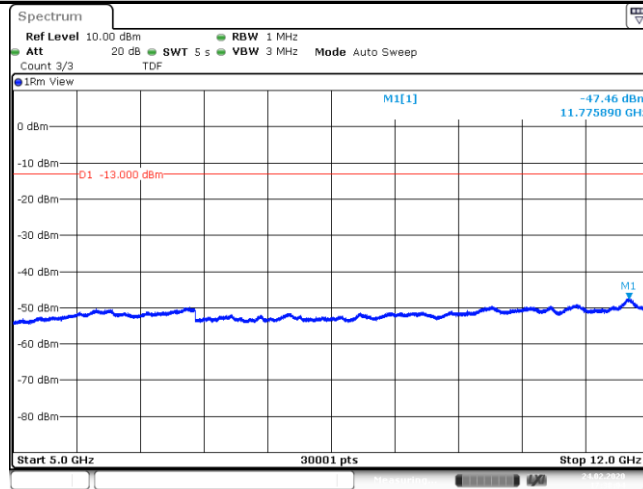
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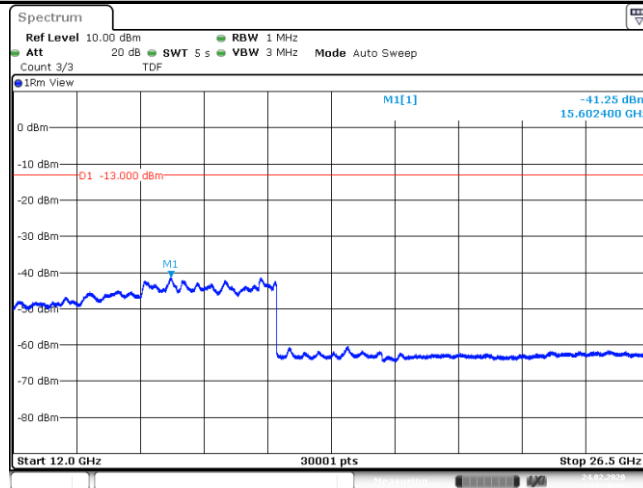


Band85\_Stand-Alone\_NaN\_BPSK\_134092\_1@11\_15kHz\_5000\_12000\_5000~12000MHz@-47.46dBm\_-13\_PASS



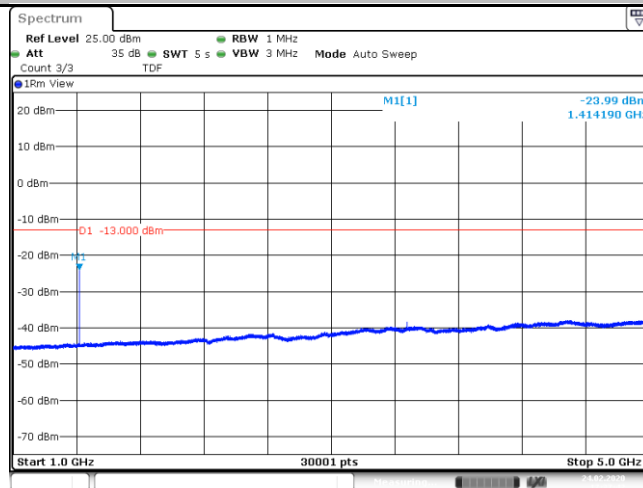
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SS\_\_



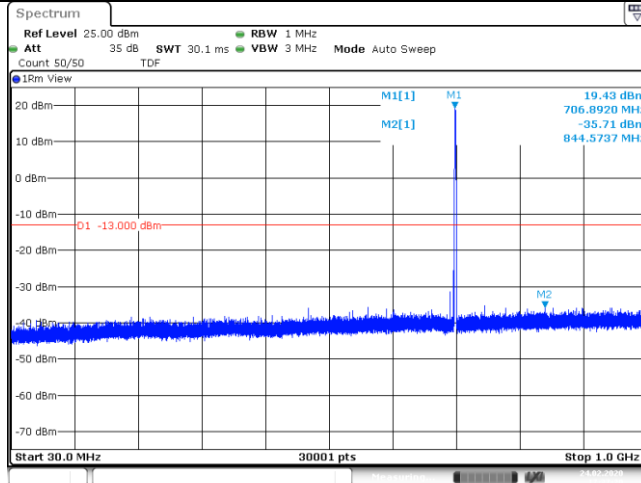
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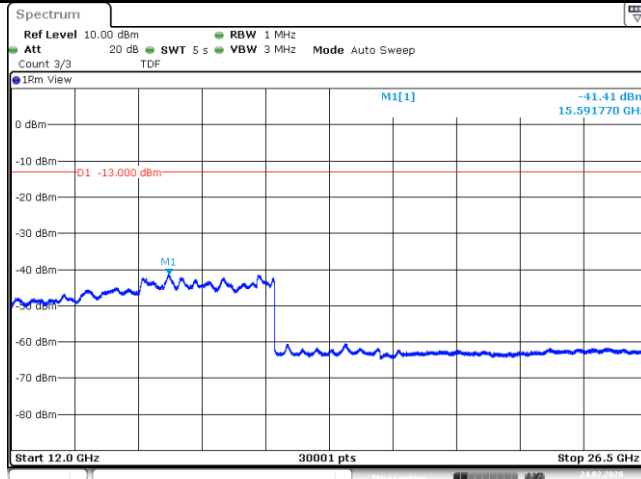
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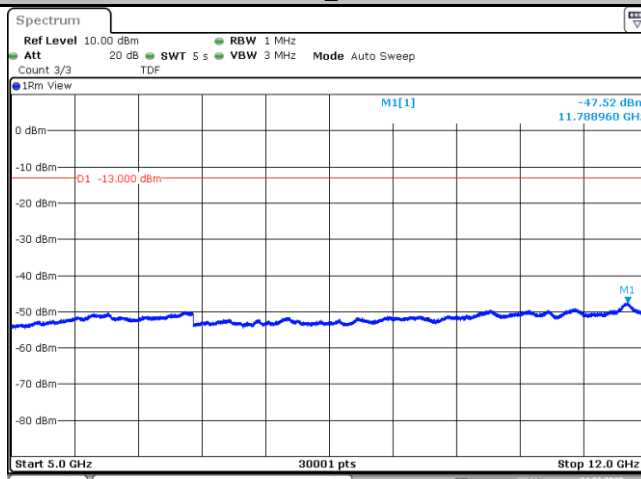
Date: 24.FEB.2020 17:37:21

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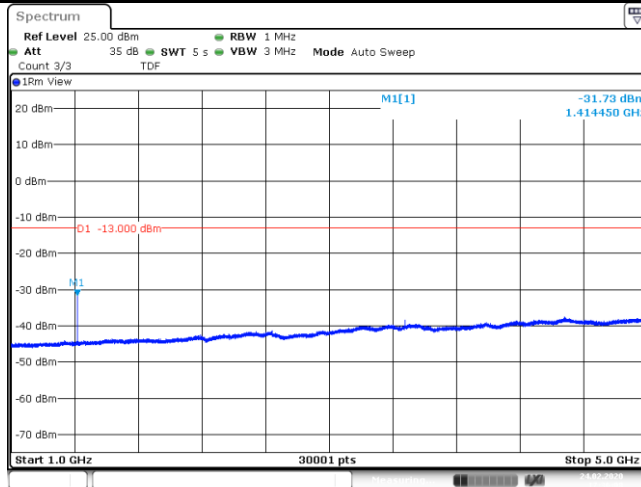
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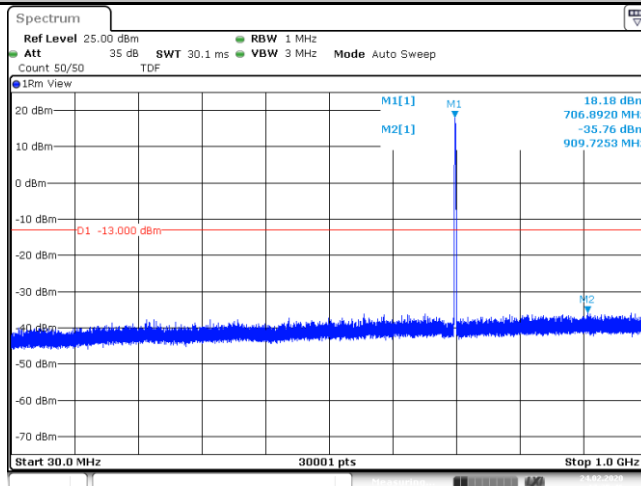
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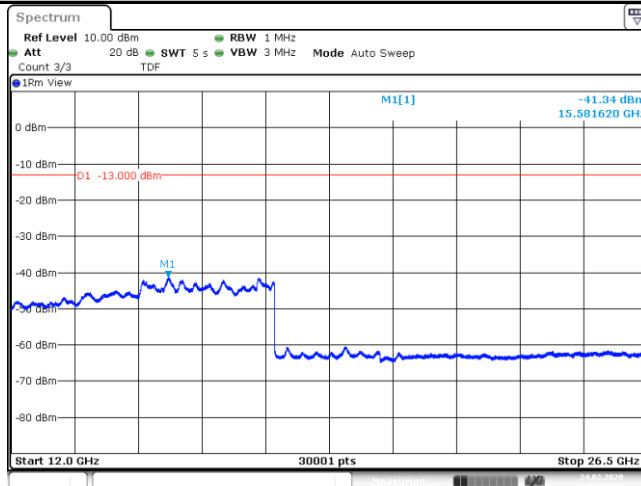
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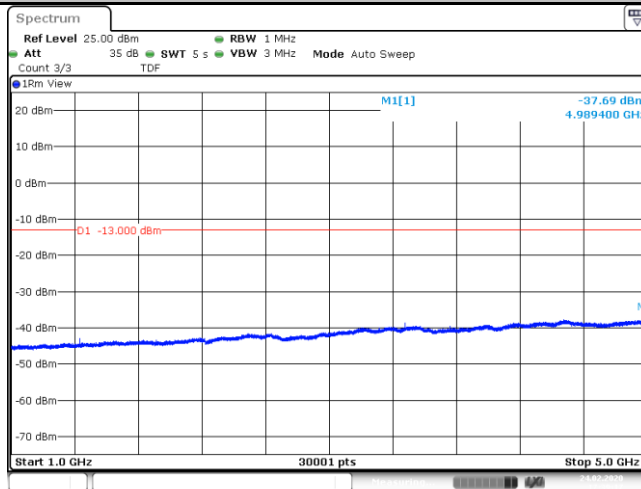
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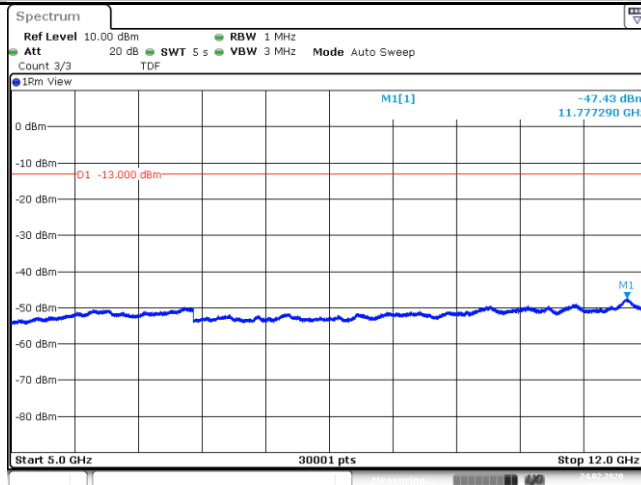
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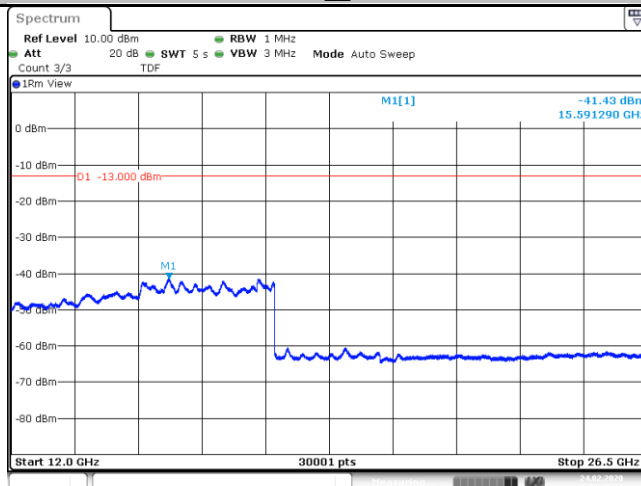
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Date: 24.FEB.2020 17:39:39

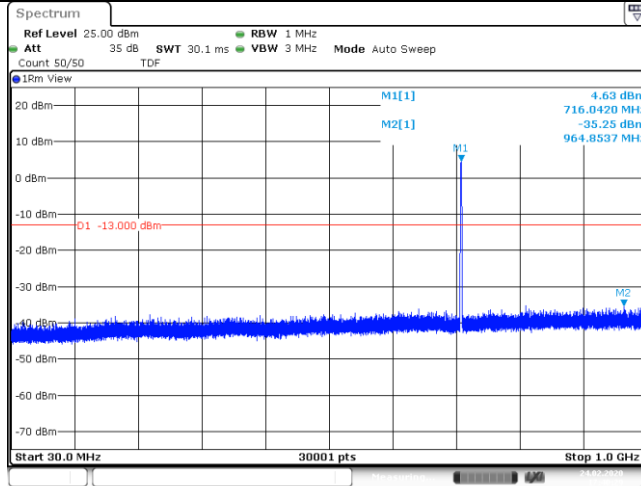
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S\_\_



Date: 24.FEB.2020 17:40:01

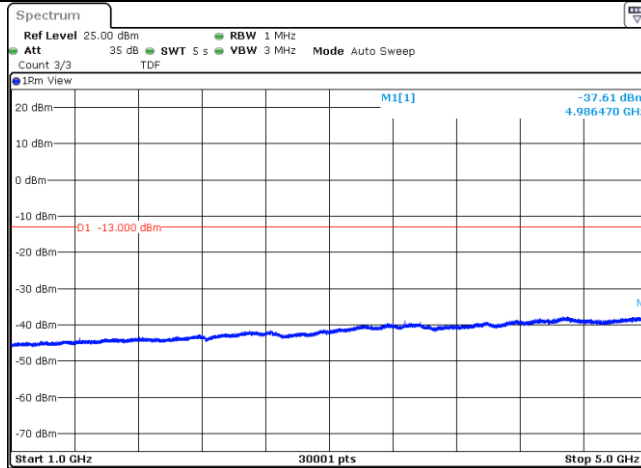


Band85\_Stand-Alone\_NaN\_BPSK\_134181\_1@11\_15kHz\_30\_1000\_30~1000MHz@-35.25dBm\_-13\_PASS\_\_



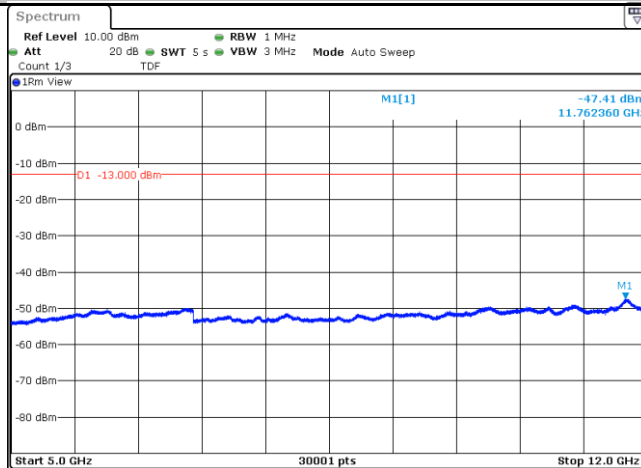
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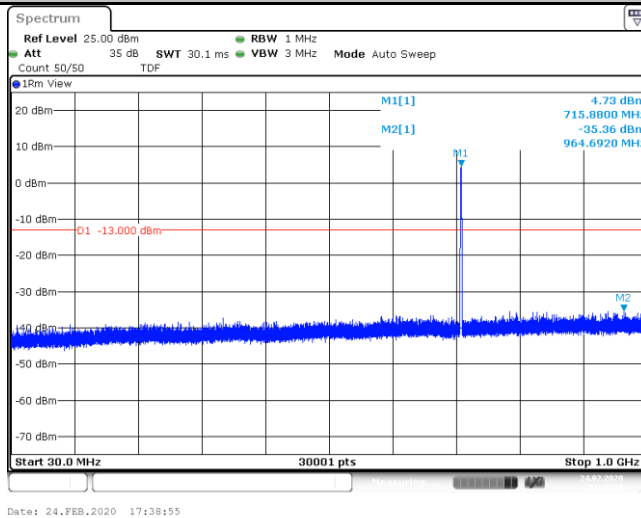
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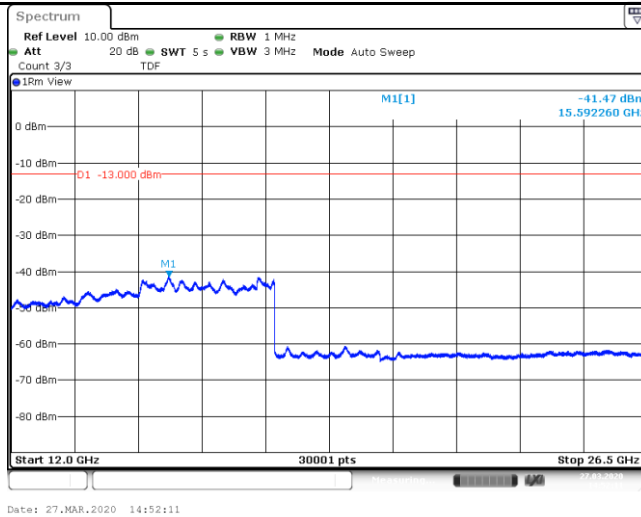


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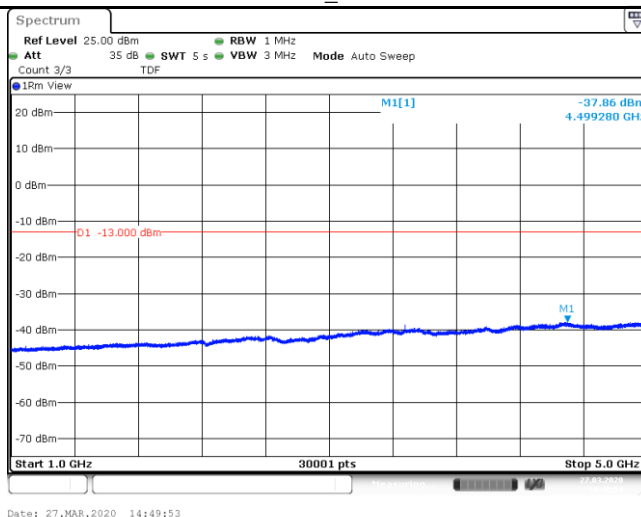
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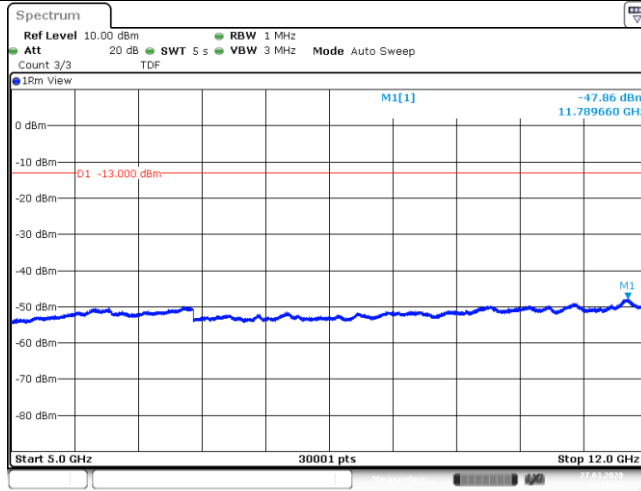
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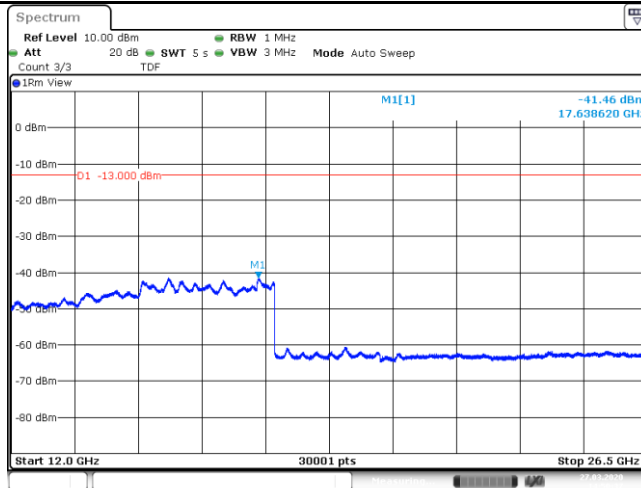


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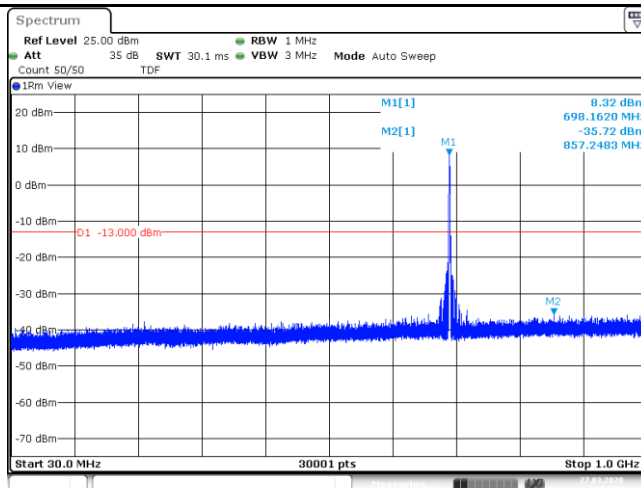
Date: 27.MAR.2020 14:50:15

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@0\_3.75kHz\_12000\_26500\_12000~26500MHz@-41.46dBm\_-13\_P ASS\_



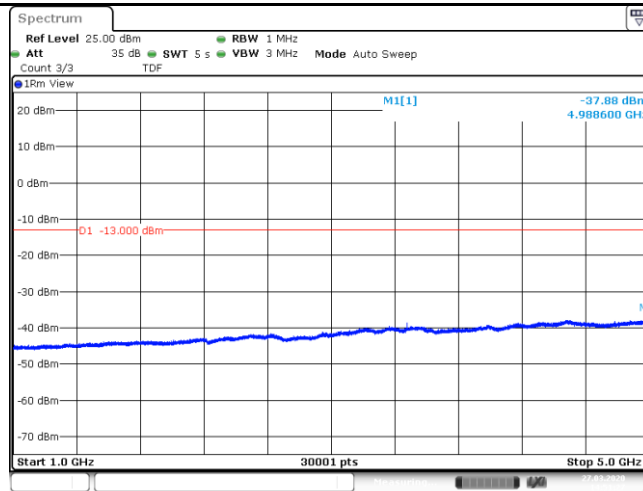
Date: 27.MAR.2020 14:50:37

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@47\_3.75kHz\_30\_1000\_30~1000MHz@-35.72dBm\_-13\_PASS\_



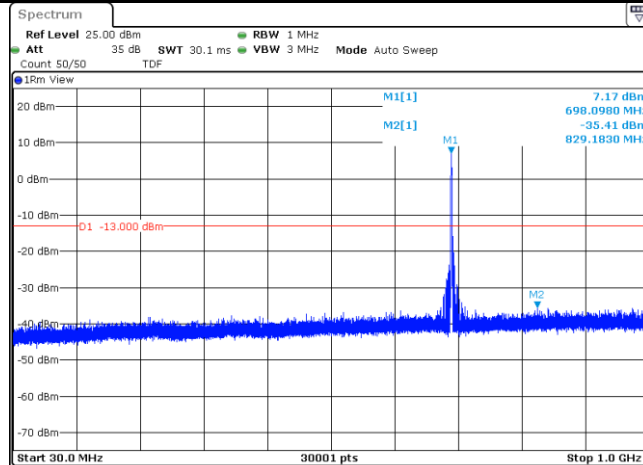
Date: 27.MAR.2020 14:51:05

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@47\_3.75kHz\_1000\_5000\_1000~5000MHz@-37.88dBm\_-13\_PASS



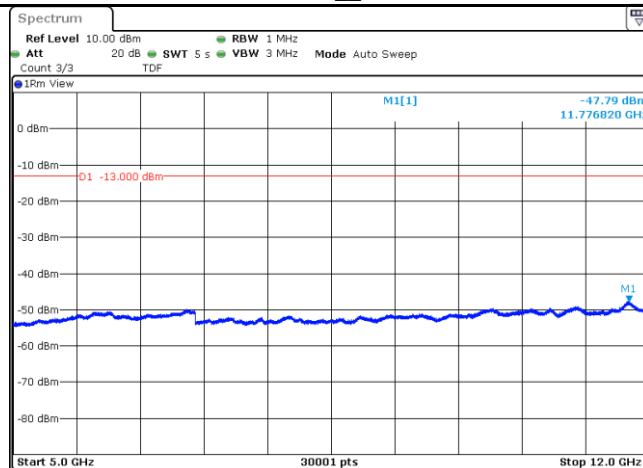
Date: 27.MAR.2020 14:51:27

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@0\_3.75kHz\_30\_1000\_30~1000MHz@-35.41dBm\_-13\_PASS\_\_



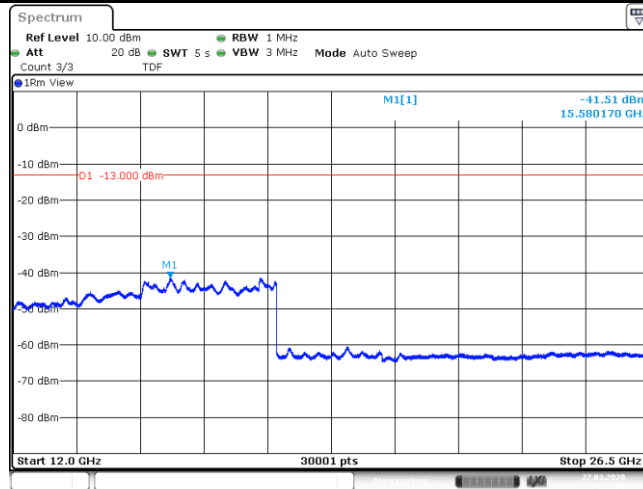
Date: 27.MAR.2020 14:49:31

Band85\_Stand-Alone\_NaN\_QPSK\_134003\_1@47\_3.75kHz\_5000\_12000\_5000~12000MHz@-47.79dBm\_-13\_PASS\_\_



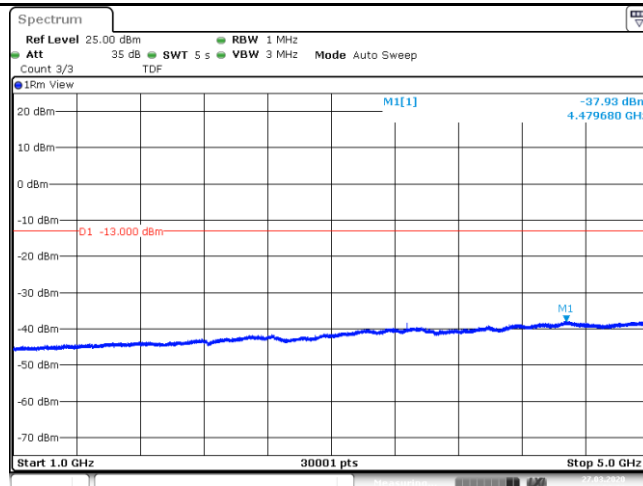
Date: 27.MAR.2020 14:51:49

Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@47\_3.75kHz\_12000\_26500\_12000~26500MHz@-41.51dBm\_-13\_PASS\_\_



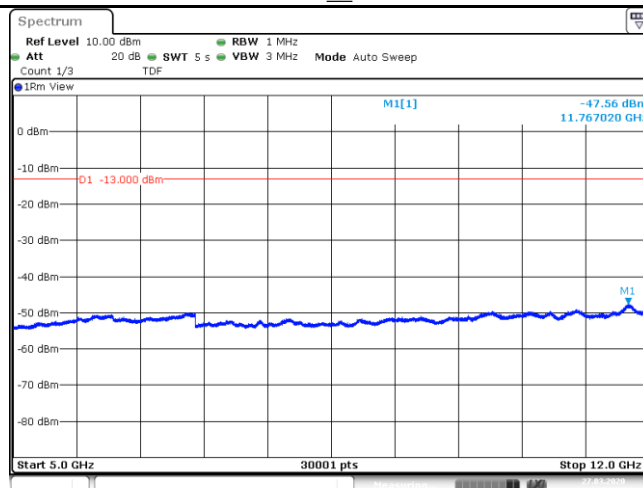
Date: 27.MAR.2020 14:55:21

Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@0\_3.75kHz\_1000\_5000\_1000~5000MHz@-37.93dBm\_-13\_PASS\_\_



Date: 27.MAR.2020 14:53:02

Band85\_Stand-Alone\_NaN\_QPSK\_134181\_1@0\_3.75kHz\_5000\_12000\_5000~12000MHz@-47.56dBm\_-13\_PAS S\_\_



Date: 27.MAR.2020 14:53:24