

Appendix for NB-IOT Band 2

Product Name: NBloT Meter Interface Unit

Model No: AGIL WRPMIU 301

Appendix A: Average Power Output Data

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Conducted POWER(dBm)	Verdict
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	18601	1@0	23.18	PASS
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	18601	1@47	23.21	PASS
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	18876	1@0	23.12	PASS
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	18876	1@47	23.12	PASS
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	19199	1@0	23.42	PASS
Band 2	Stand-Al one	3.75kHz	NaN	BPSK	19199	1@47	22.98	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	18601	1@0	23.12	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	18601	1@47	23.16	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	18876	1@0	23.14	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	18876	1@47	23.11	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	19199	1@0	22.74	PASS
Band 2	Stand-Al one	3.75kHz	NaN	QPSK	19199	1@47	22.74	PASS
Band 2	Stand-Al one	15kHz	NaN	BPSK	18601	1@0	23.15	PASS
Band 2	Stand-Al one	15kHz	NaN	BPSK	18601	1@11	23.13	PASS
Band 2	Stand-Al one	15kHz	NaN	BPSK	18876	1@0	23.13	PASS
Band 2	Stand-Al one	15kHz	NaN	BPSK	18876	1@11	23.05	PASS
Band 2	Stand-Al one	15kHz	NaN	BPSK	19199	1@0	22.10	PASS

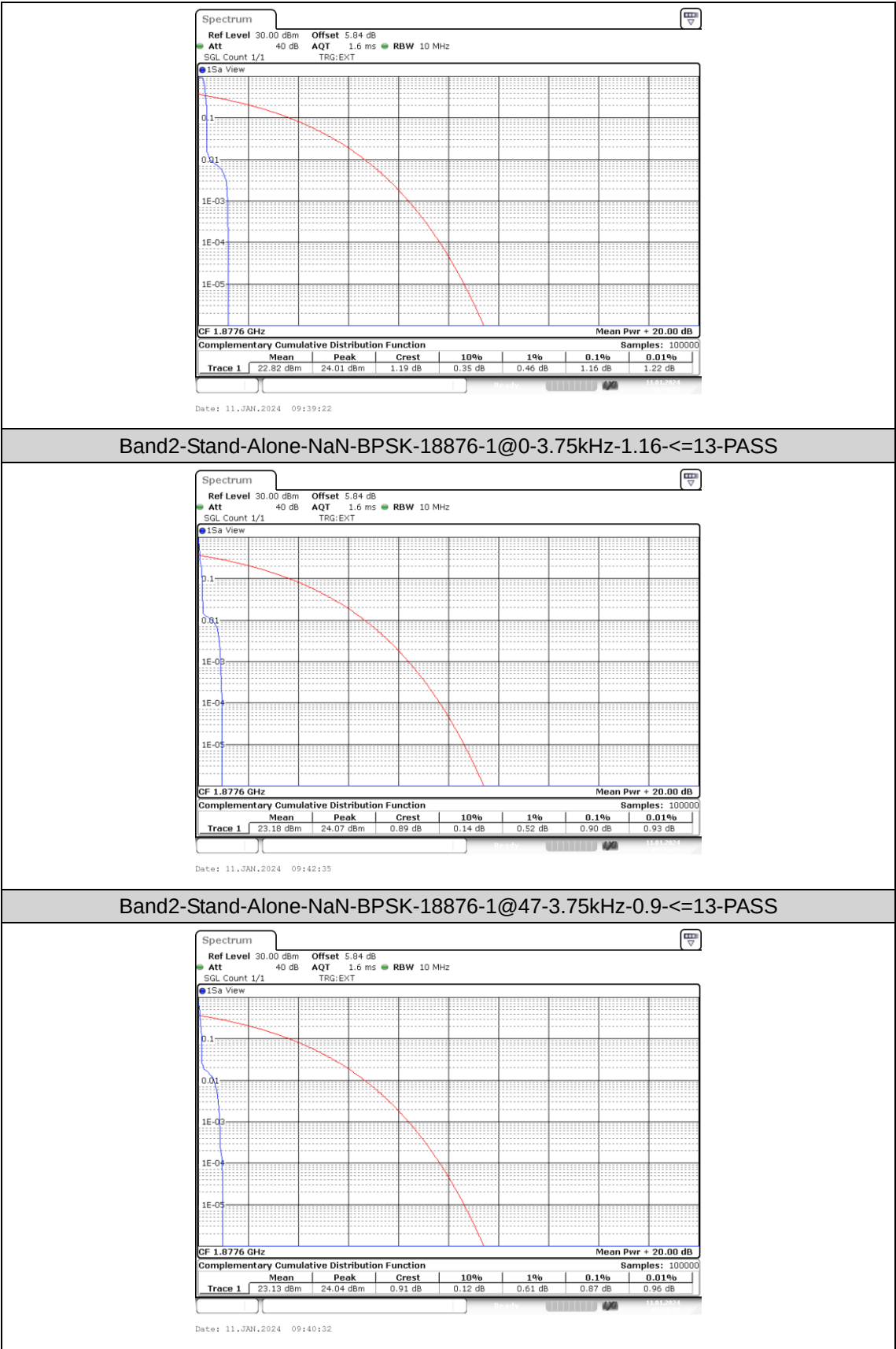
Band 2	Stand-Al one	15kHz	NaN	BPSK	19199	1@11	22.95	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18601	1@0	22.77	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18601	1@11	22.65	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18601	3@3	22.11	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18876	1@0	22.58	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18876	1@11	22.72	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	18876	3@3	22.31	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	19199	1@0	22.34	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	19199	1@11	22.51	PASS
Band 2	Stand-Al one	15kHz	NaN	QPSK	19199	3@3	22.71	PASS

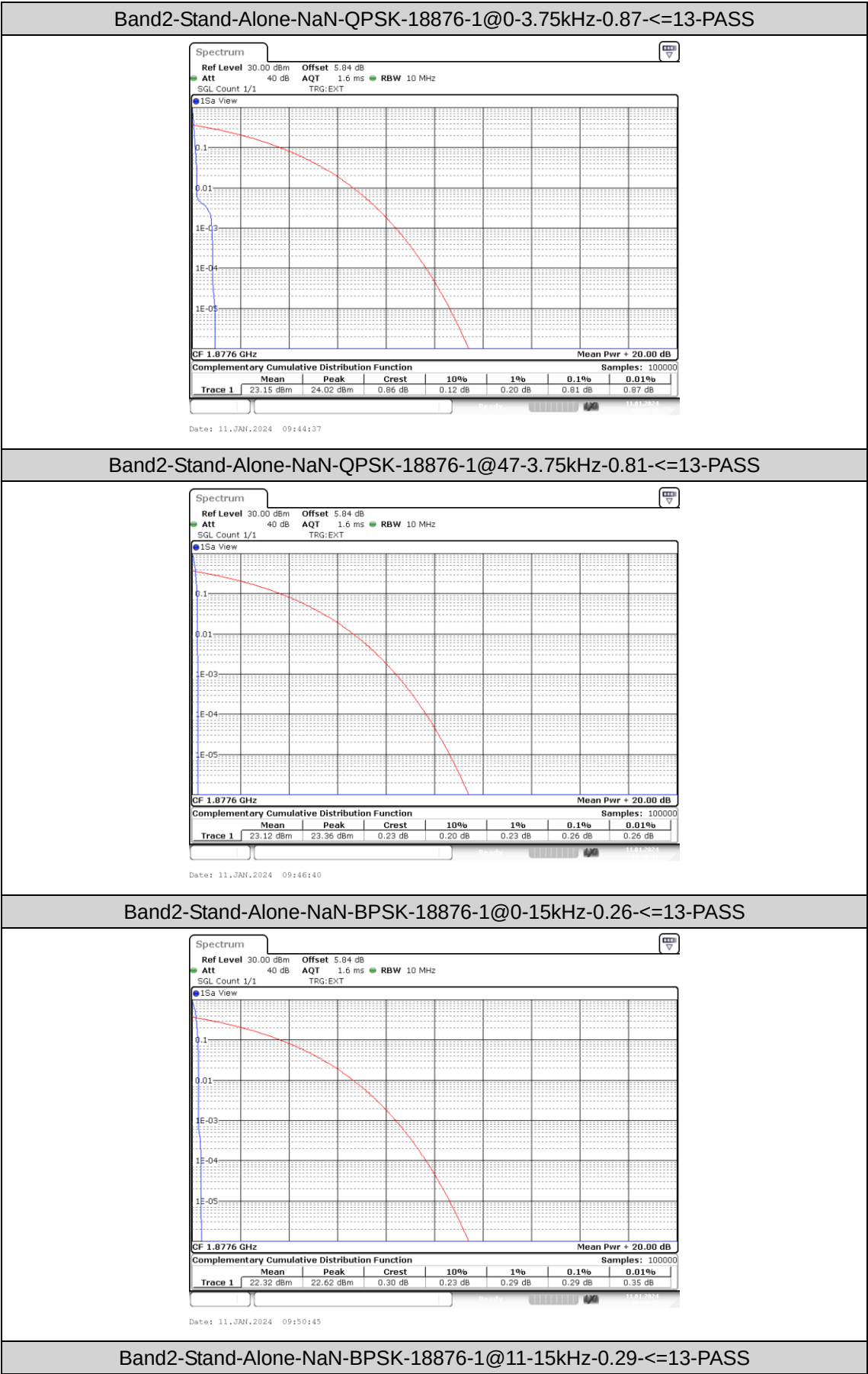
Appendix B: Peak-to-Average Ratio(CCDF)

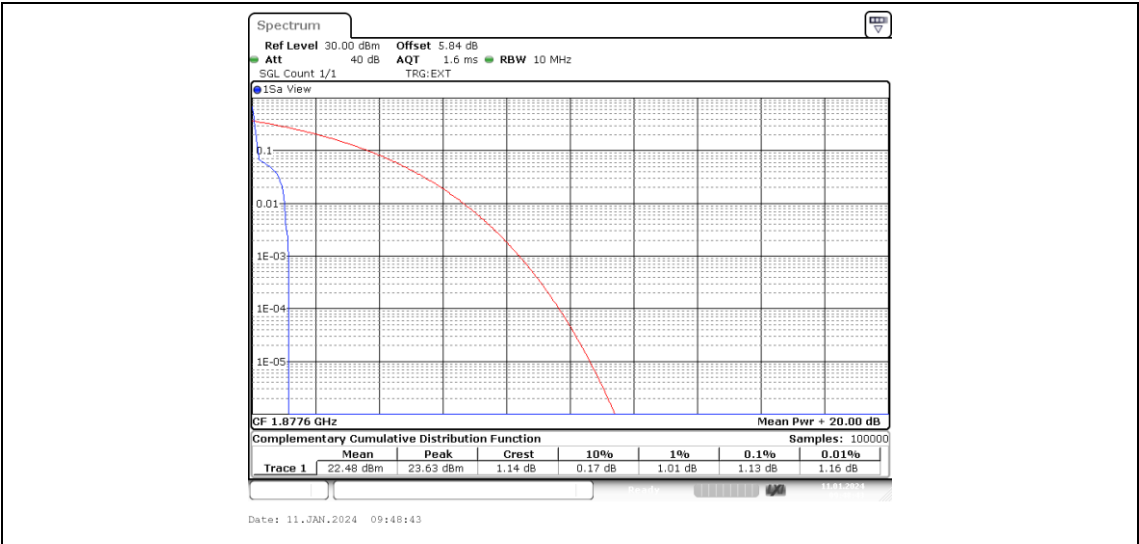
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18876	1@0	1.16	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18876	1@47	0.9	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	0.87	<=13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@47	0.81	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	0.26	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@11	0.29	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	1@0	1.13	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	1@11	1.1	<=13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	3@3	2.35	<=13	PASS

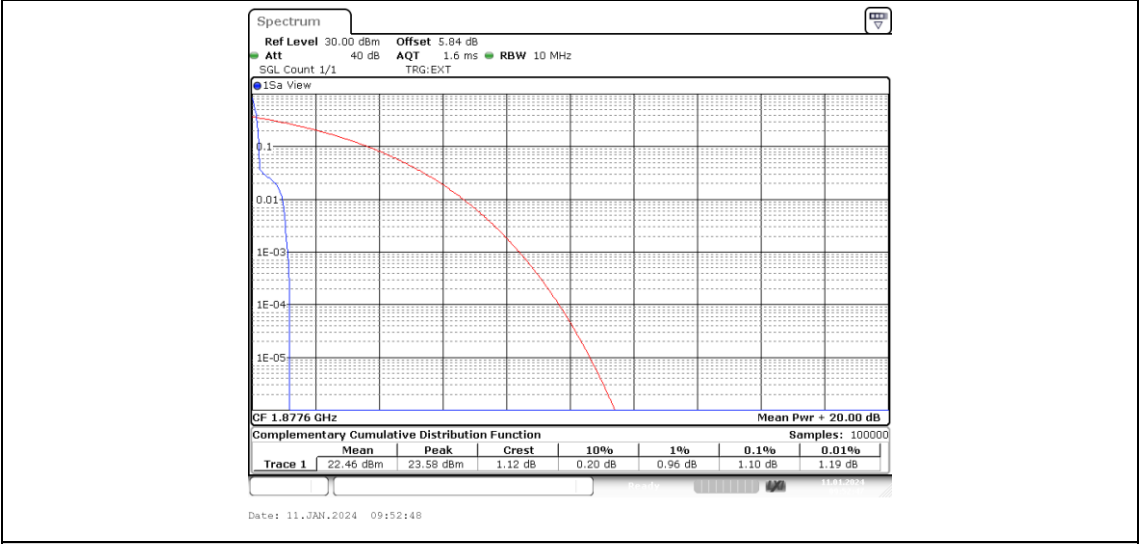
Test Graphs



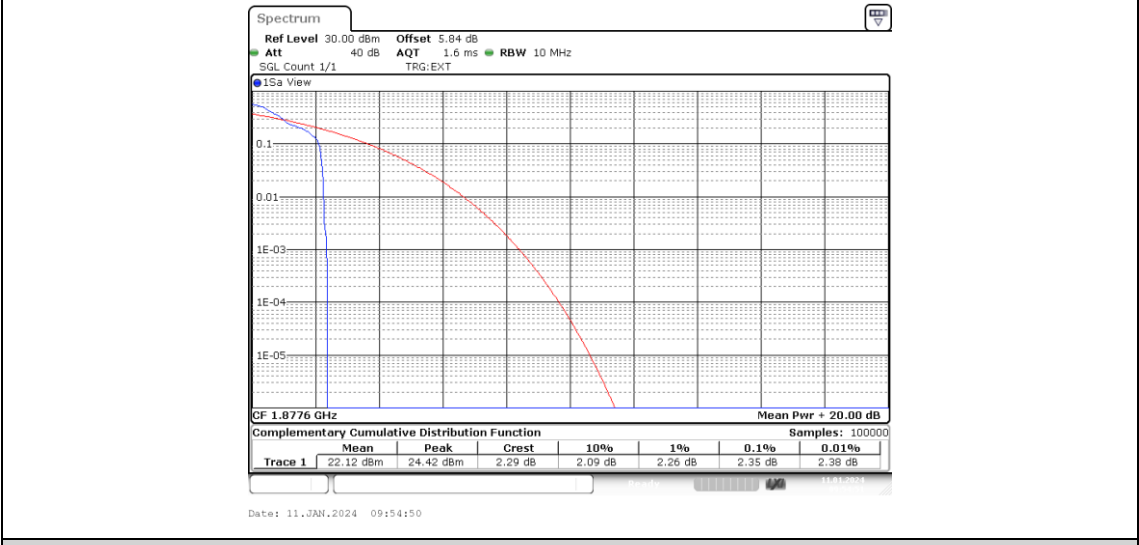




Band2-Stand-Alone-NaN-QPSK-18876-1@0-15kHz-1.13-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18876-1@11-15kHz-1.1-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18876-3@3-15kHz-2.35-<=13-PASS

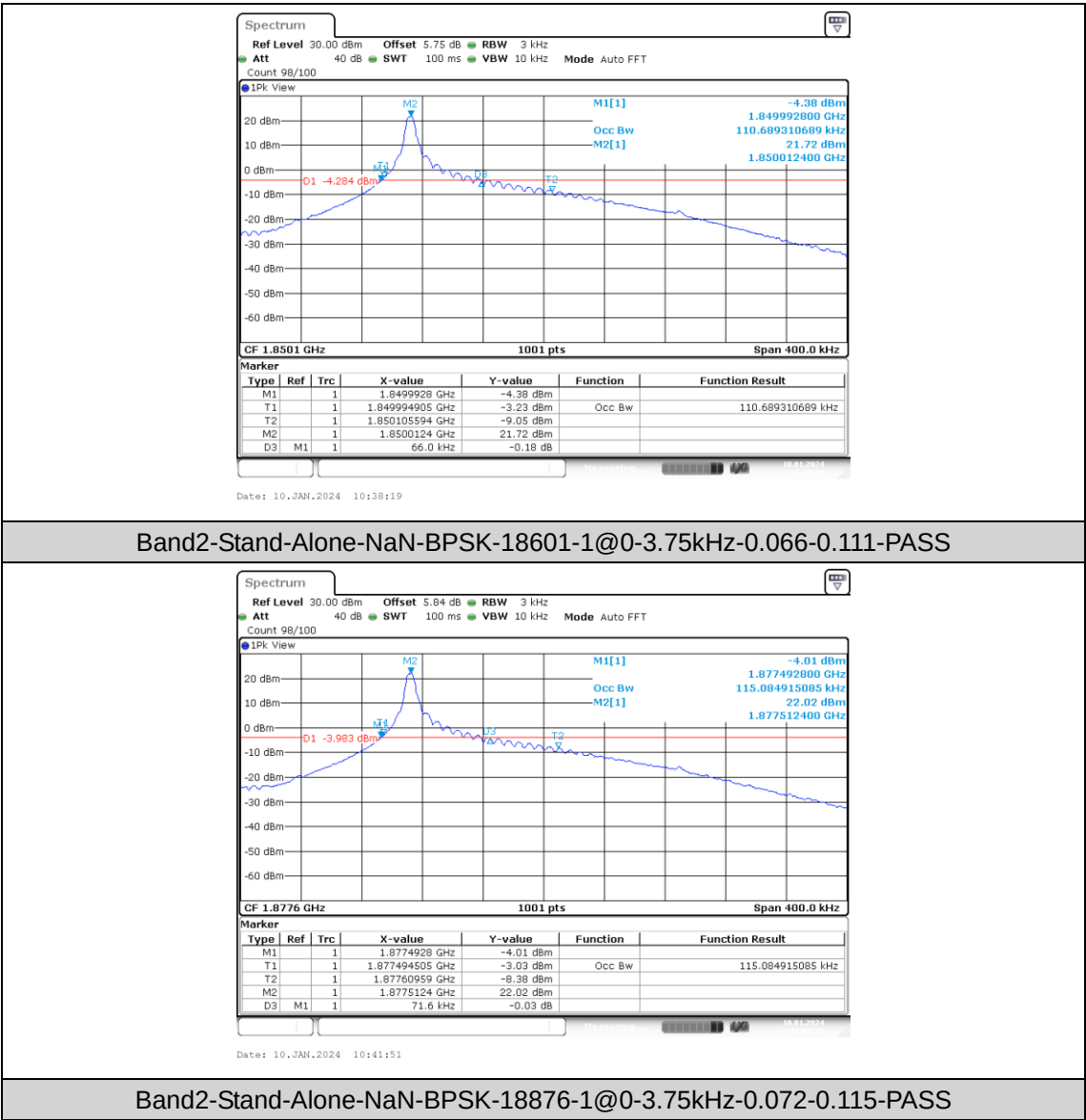
Appendix C: Emission Bandwidth

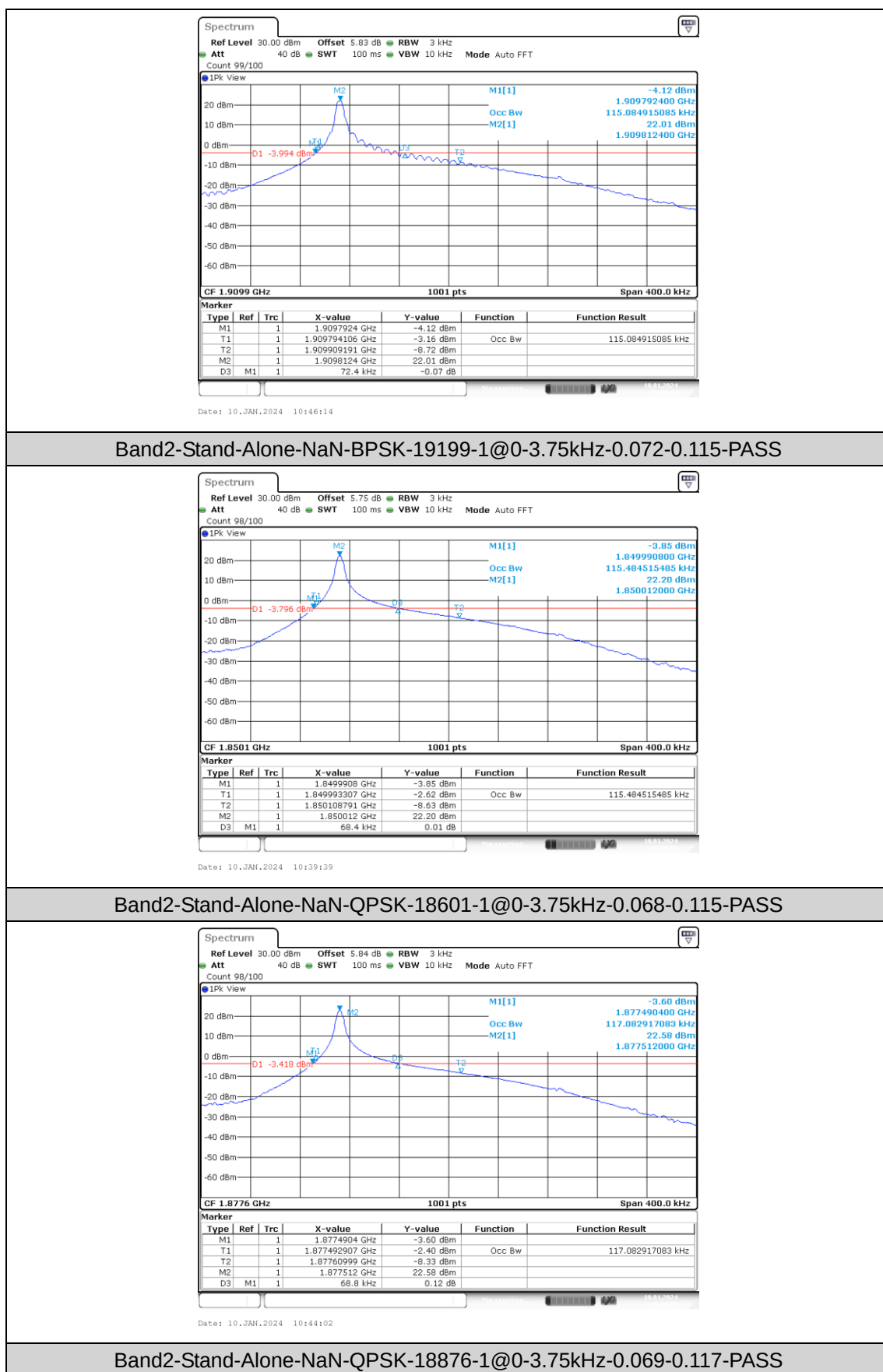
Test Result

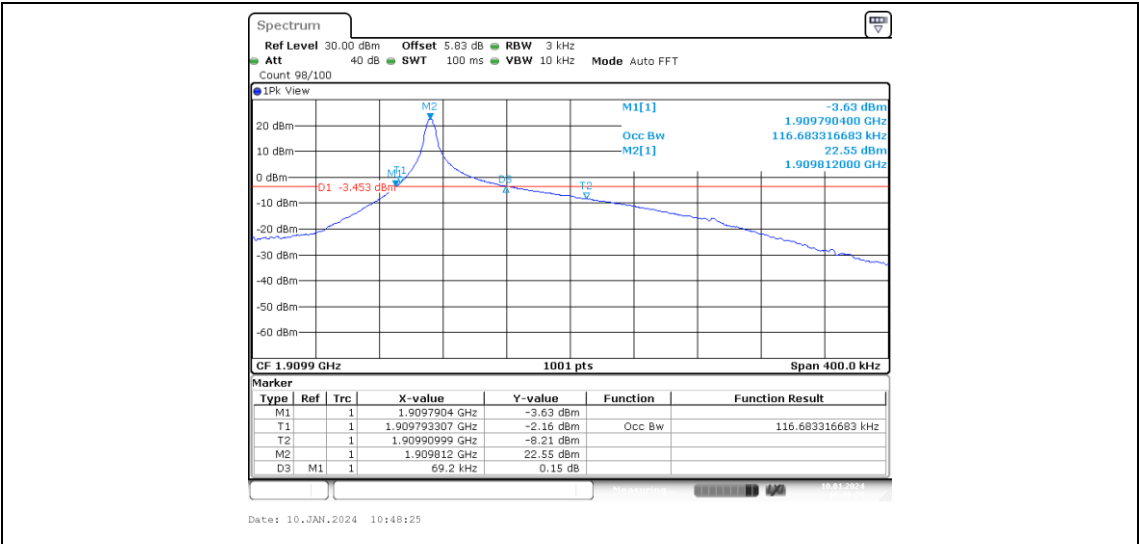
Band	OpMode	SCS	BW	Modu	Channel	Tones	OBW(MHz)	EBW(MHz)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@0	0.111	0.066	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18876	1@0	0.115	0.072	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@0	0.115	0.072	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	0.115	0.068	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	0.117	0.069	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	0.117	0.069	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	0.113	0.124	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	12@0	0.177	0.224	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	0.112	0.122	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	12@0	0.177	0.223	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	0.113	0.124	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	12@0	0.177	0.224	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@0	0.133	0.161	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	0.177	0.224	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	1@0	0.133	0.161	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	12@0	0.177	0.224	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@0	0.133	0.161	PASS

Band2	Stand-Al one	15kHz	NaN	QPSK	19199	12@0	0.177	0.224	PASS
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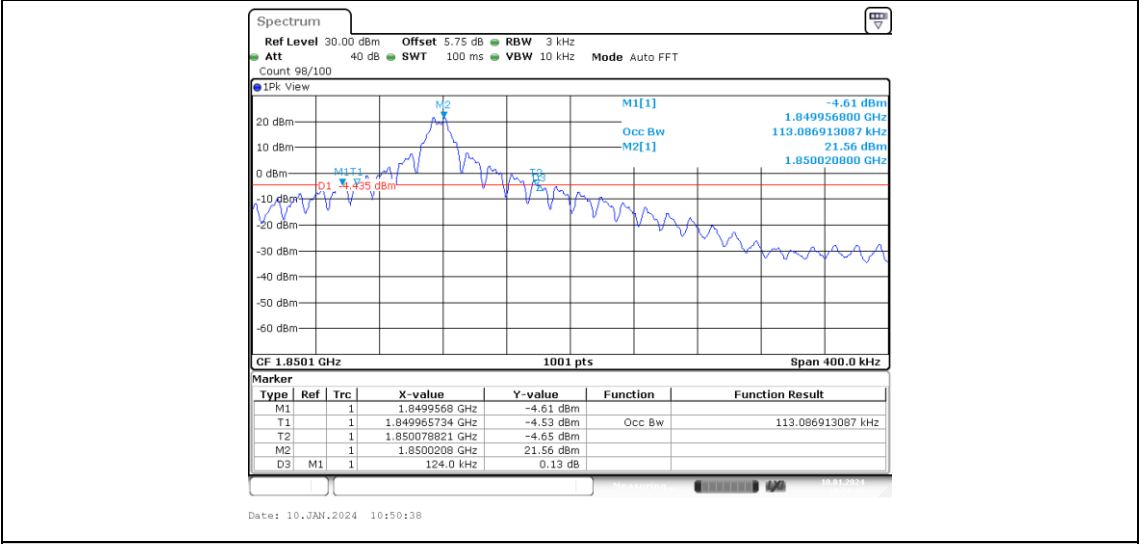
Test Graphs



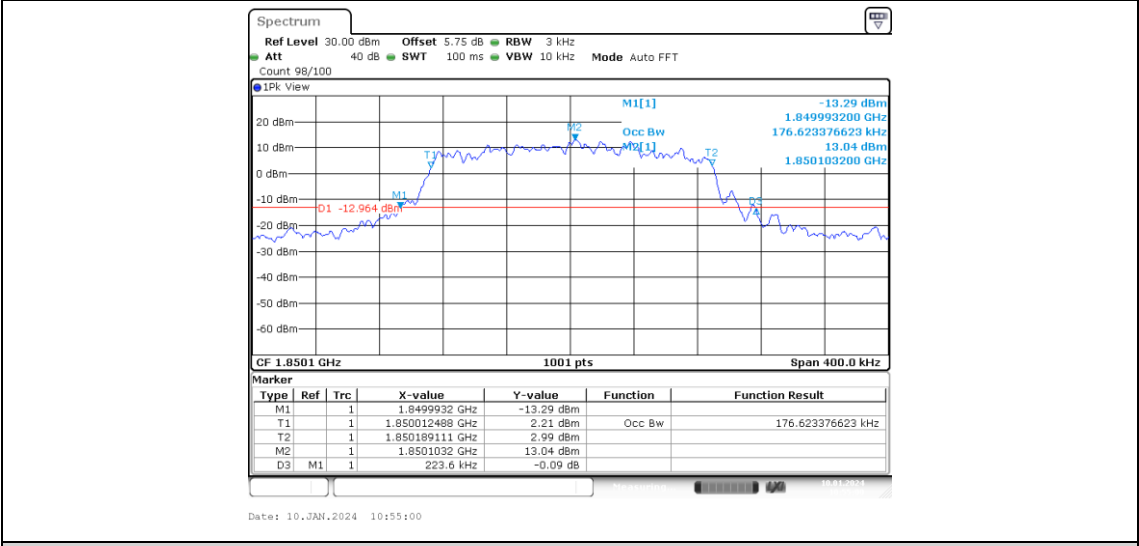




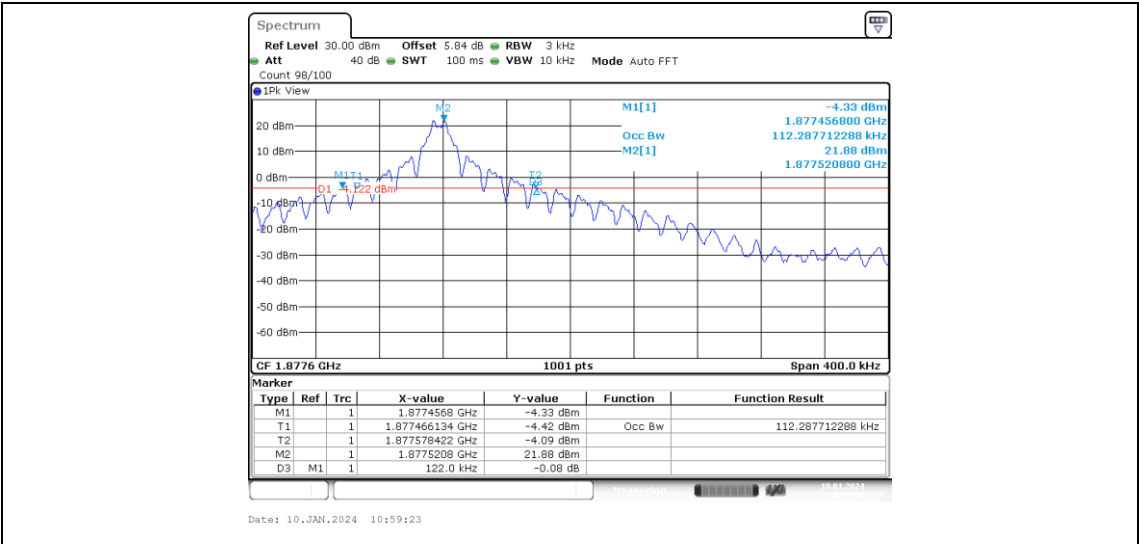
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.069-0.117-PASS



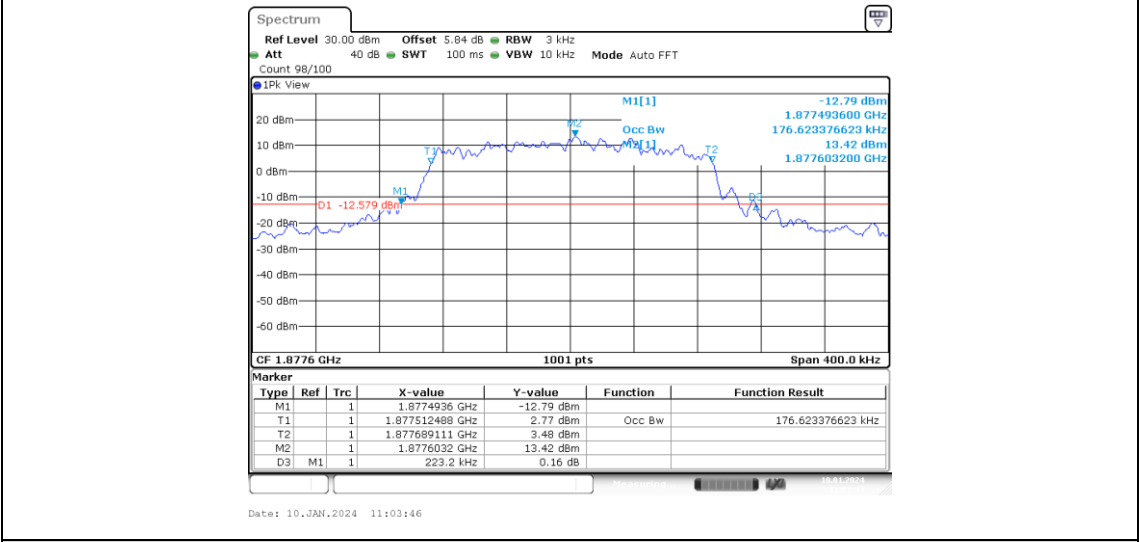
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.124-0.113-PASS



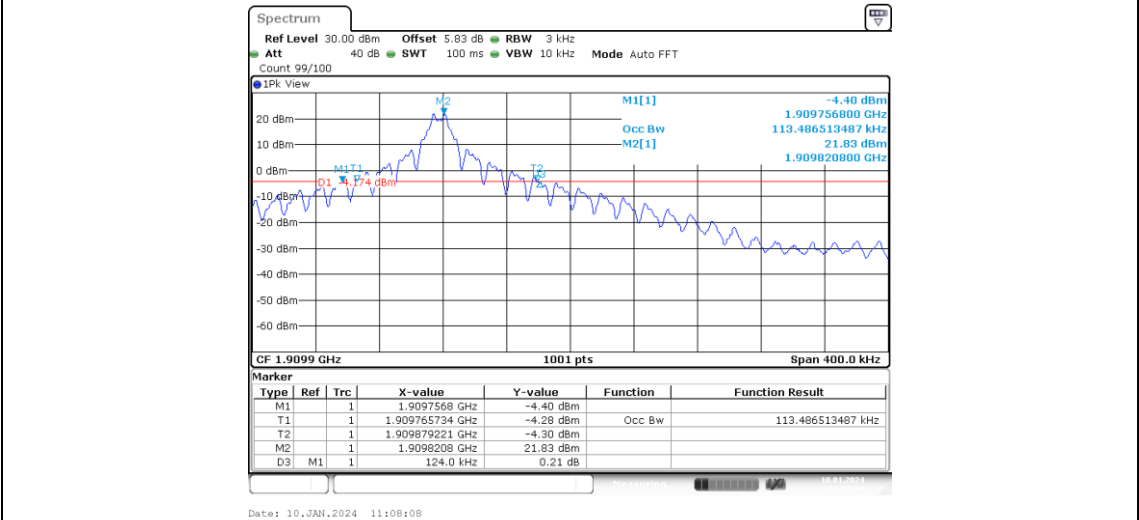
Band2-Stand-Alone-NaN-BPSK-18601-12@0-15kHz-0.224-0.177-PASS



Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.122-0.112-PASS

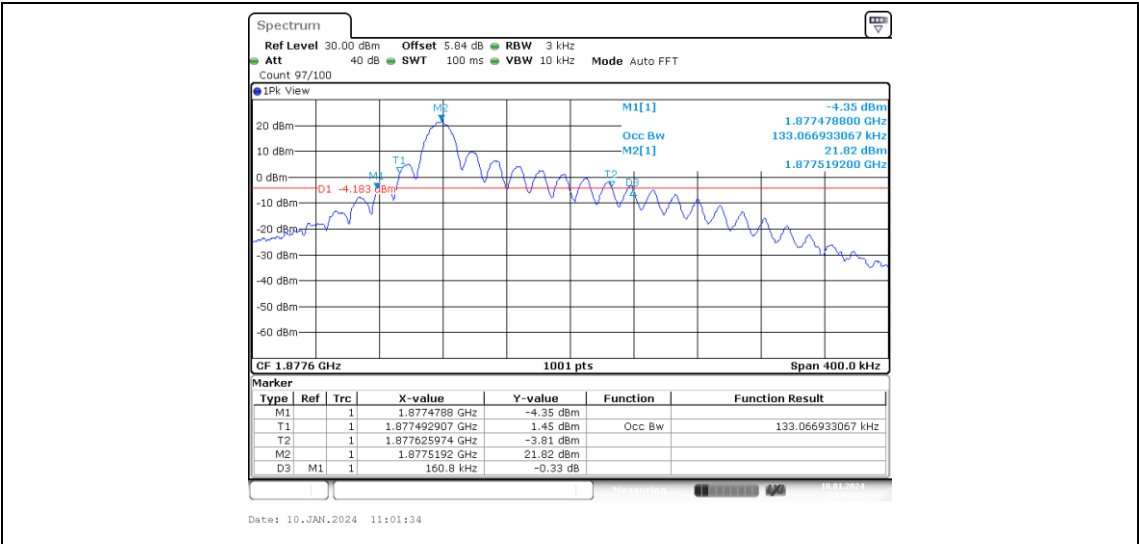


Band2-Stand-Alone-NaN-BPSK-18876-12@0-15kHz-0.223-0.177-PASS

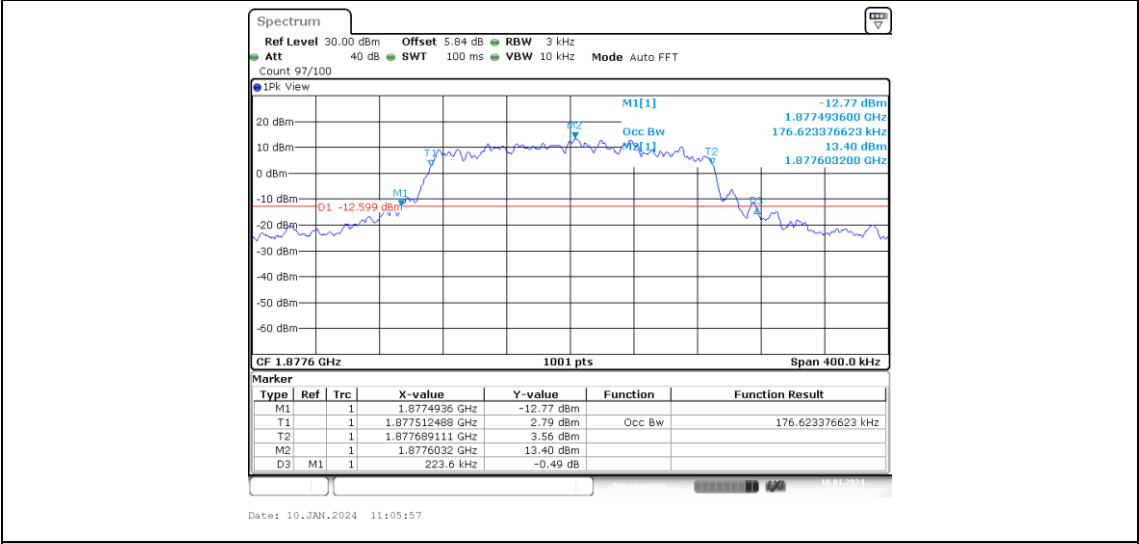


Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.124-0.113-PASS

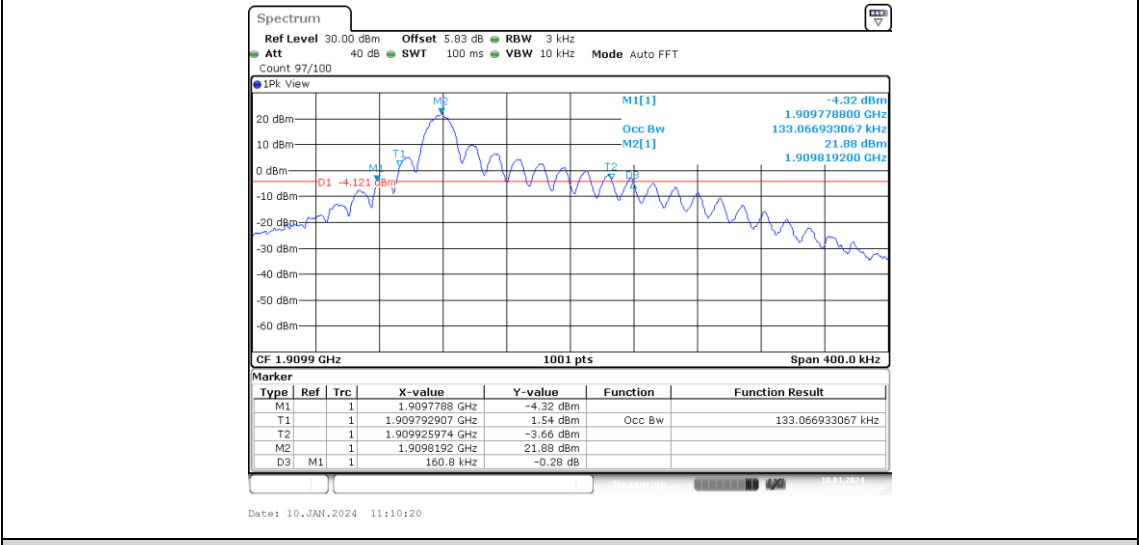




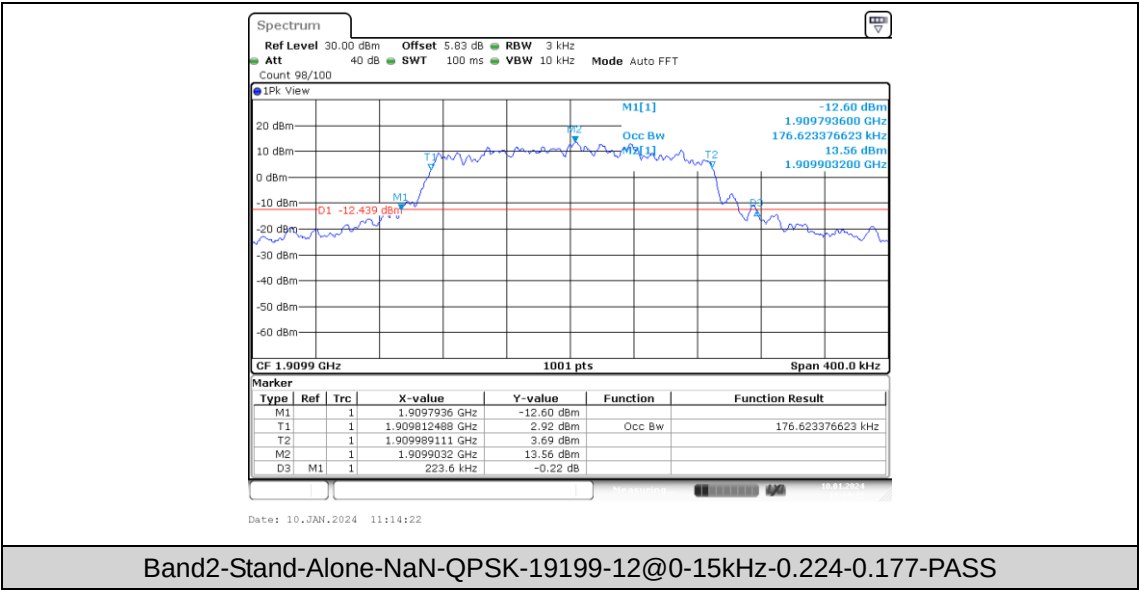
Band2-Stand-Alone-NaN-QPSK-18876-1@0-15kHz-0.161-0.133-PASS



Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.224-0.177-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@0-15kHz-0.161-0.133-PASS



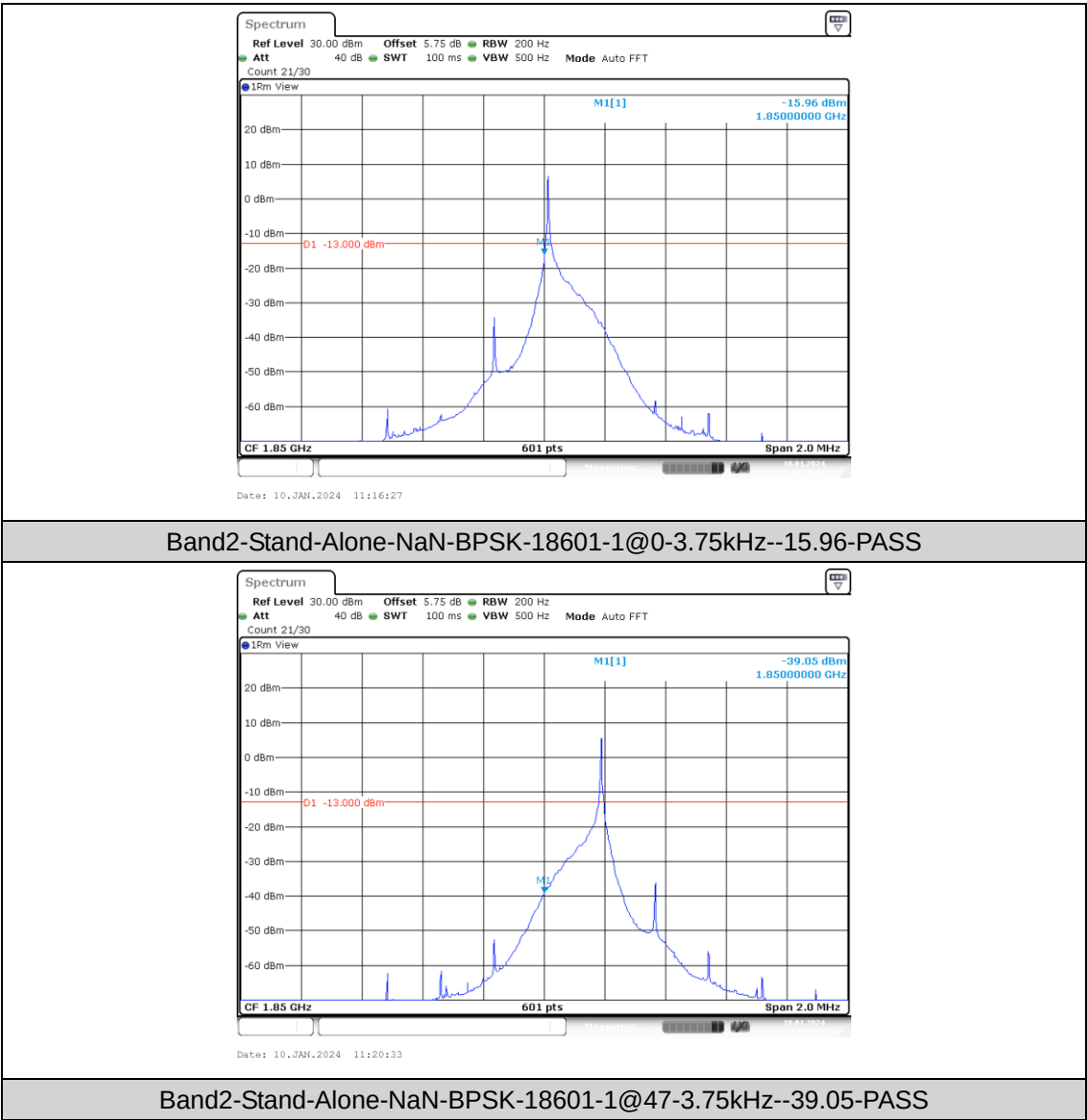
Appendix D: Band Edge

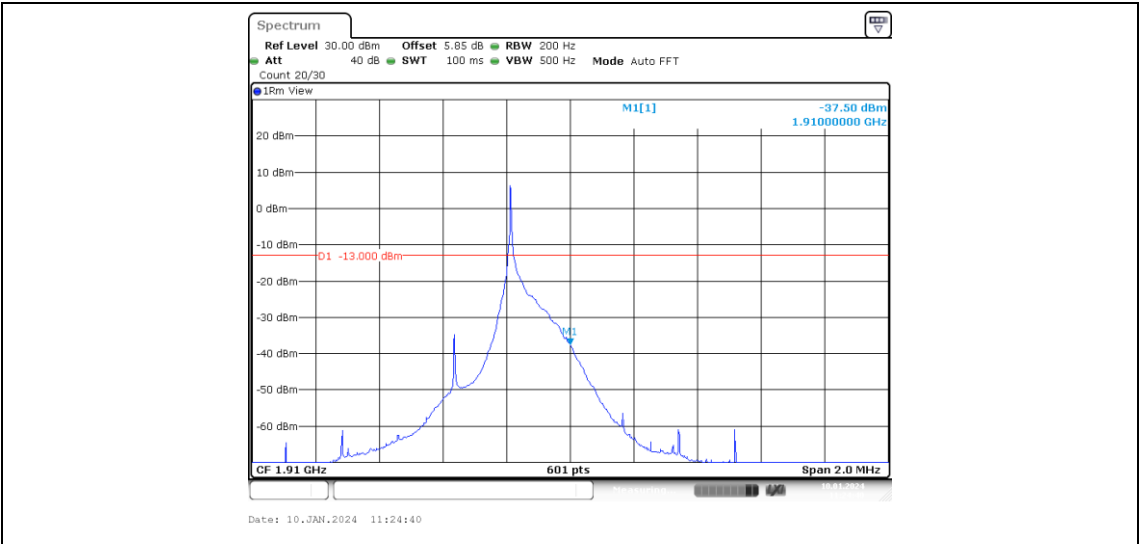
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@0	-15.96	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	18601	1@47	-39.05	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@0	-37.50	PASS
Band2	Stand-Alone	3.75kHz	NaN	BPSK	19199	1@47	-16.10	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	-17.38	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	-40.82	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	-40.74	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	-16.99	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	-14.05	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	-46.58	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	12@0	-30.30	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	-44.78	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	-13.19	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	12@0	-23.53	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@0	-18.58	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	1@11	-38.45	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	-30.4	PASS

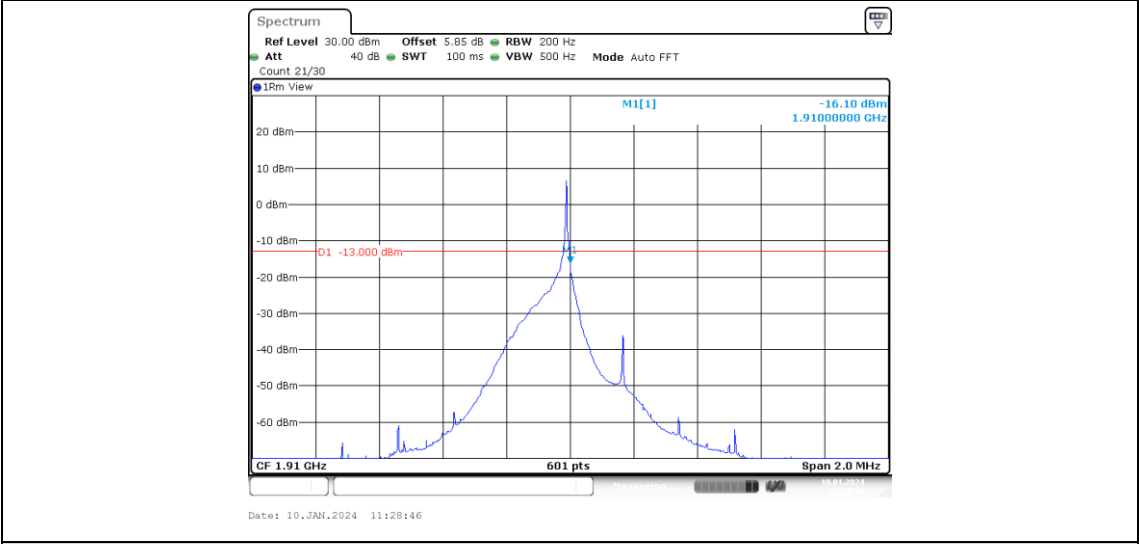
							8	
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@0	-38.39	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	1@11	-17.58	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	-27.77	PASS

Test Graphs

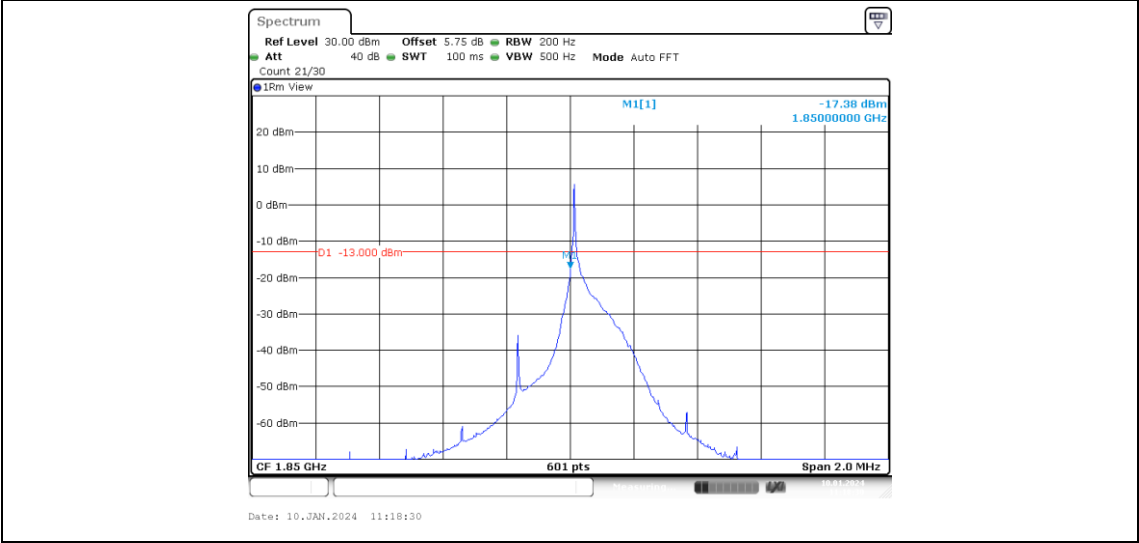




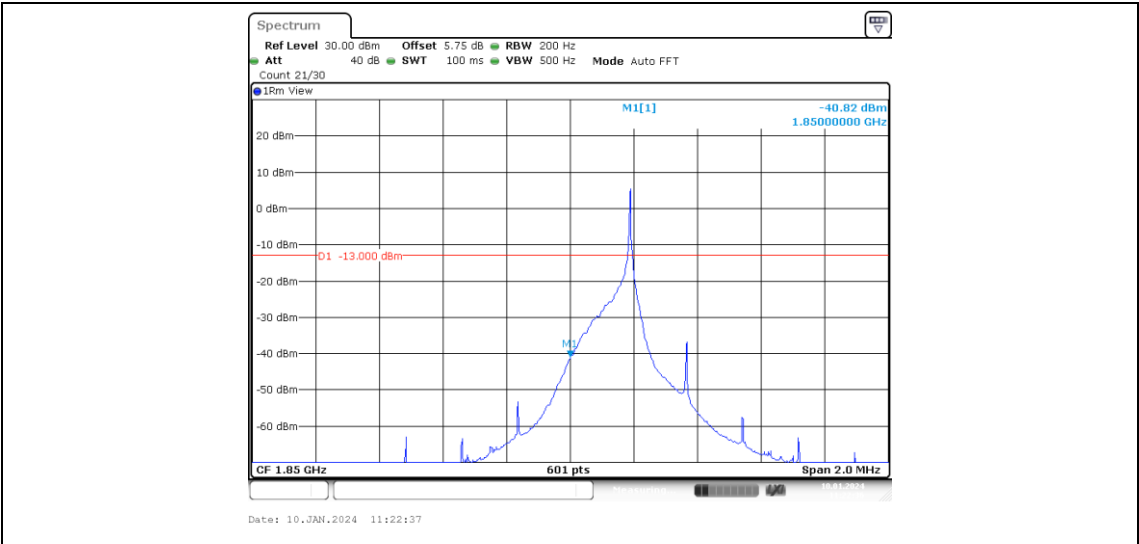
Band2-Stand-Alone-NaN-BPSK-19199-1@0-3.75kHz--37.50-PASS



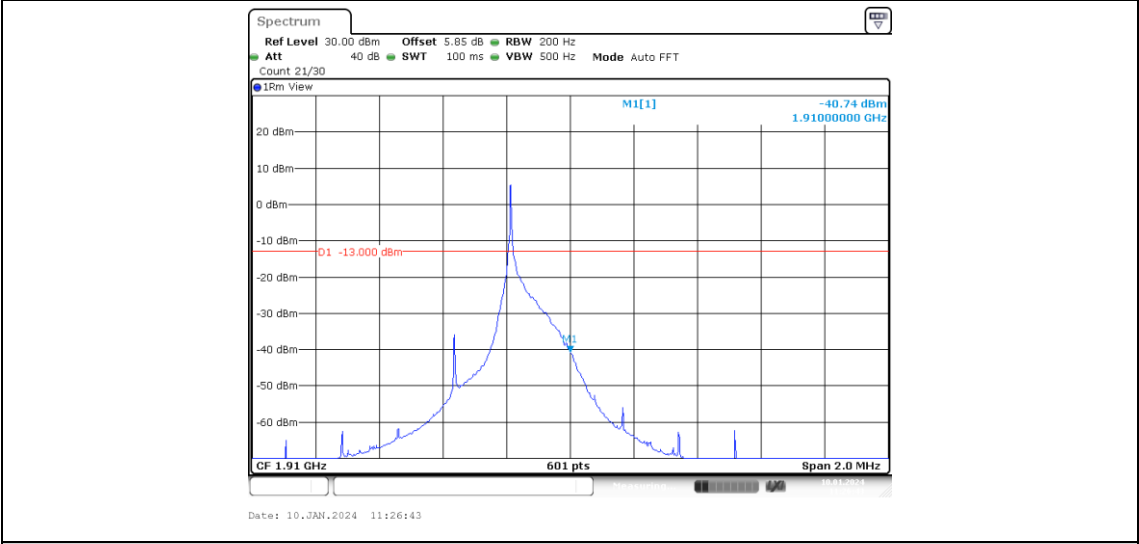
Band2-Stand-Alone-NaN-BPSK-19199-1@47-3.75kHz--16.10-PASS



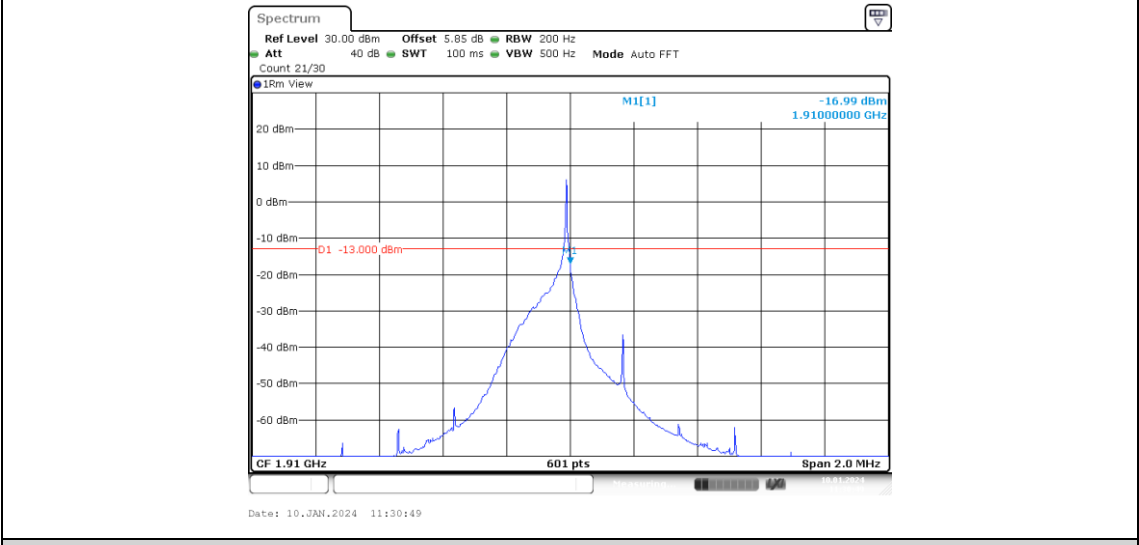
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz--17.38-PASS



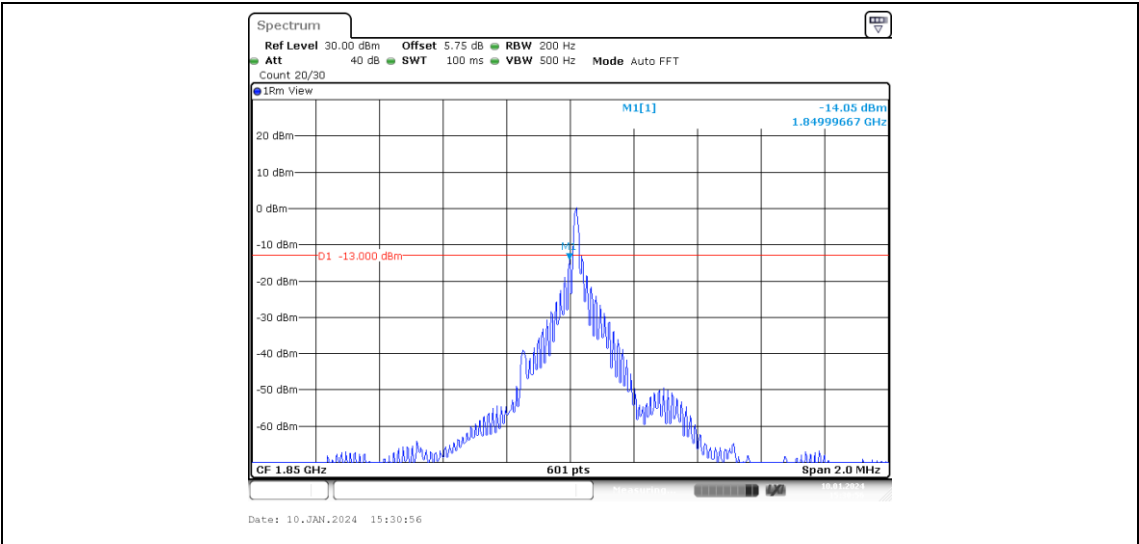
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz--40.82-PASS



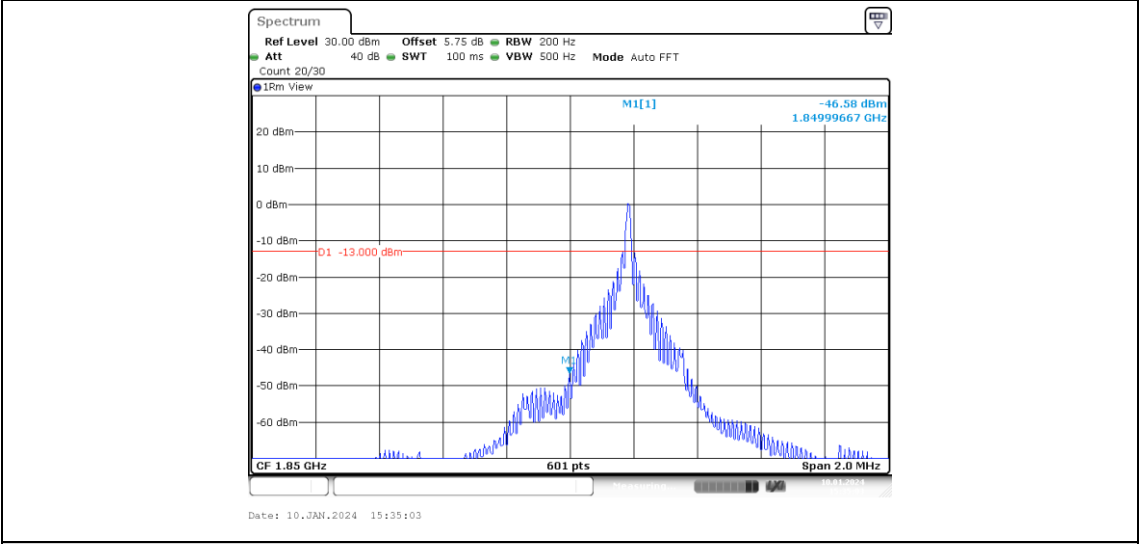
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz--40.74-PASS



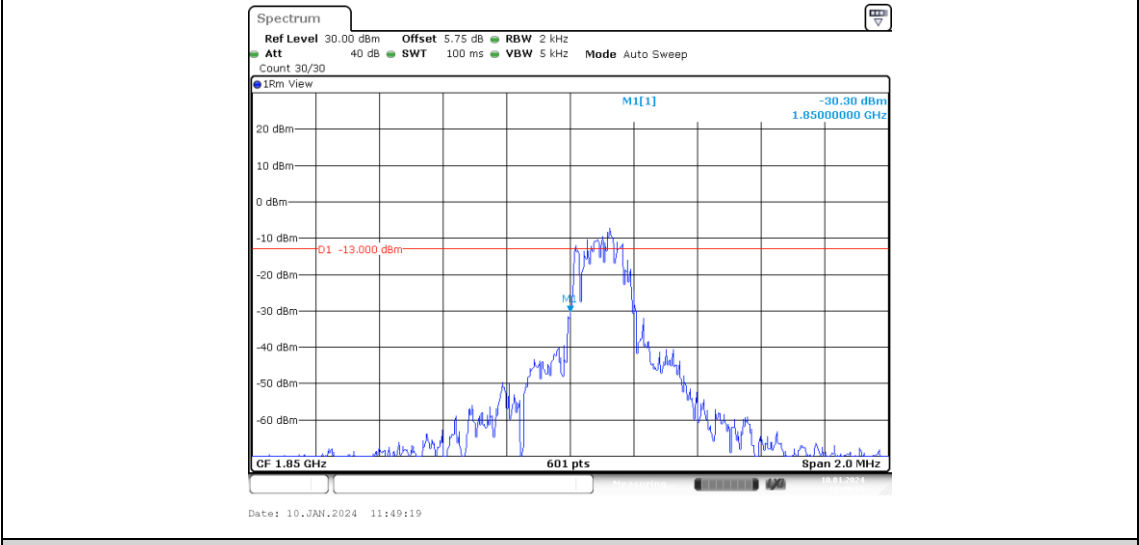
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz--16.99-PASS



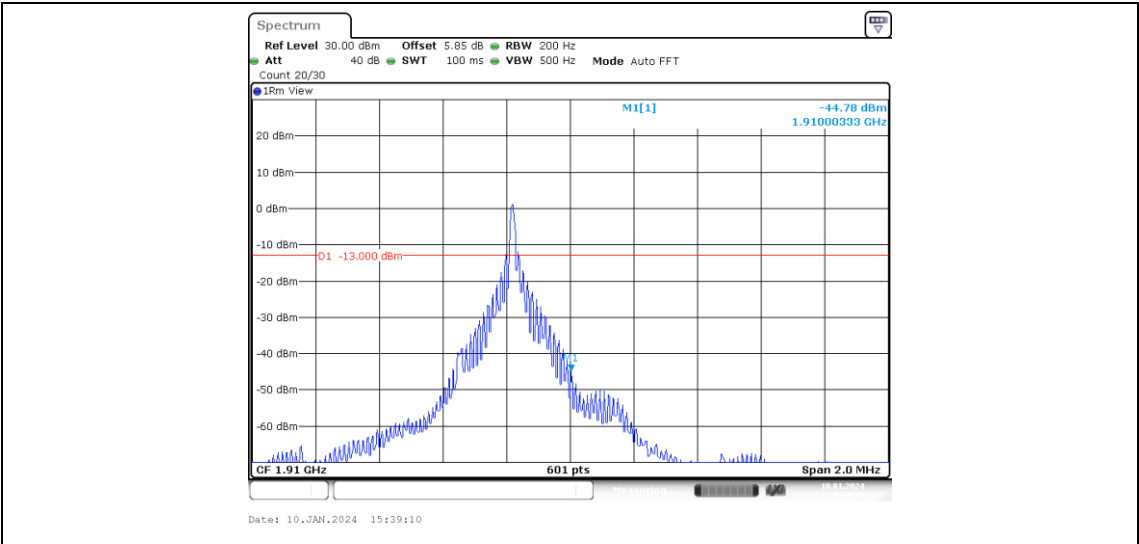
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz--14.05-PASS



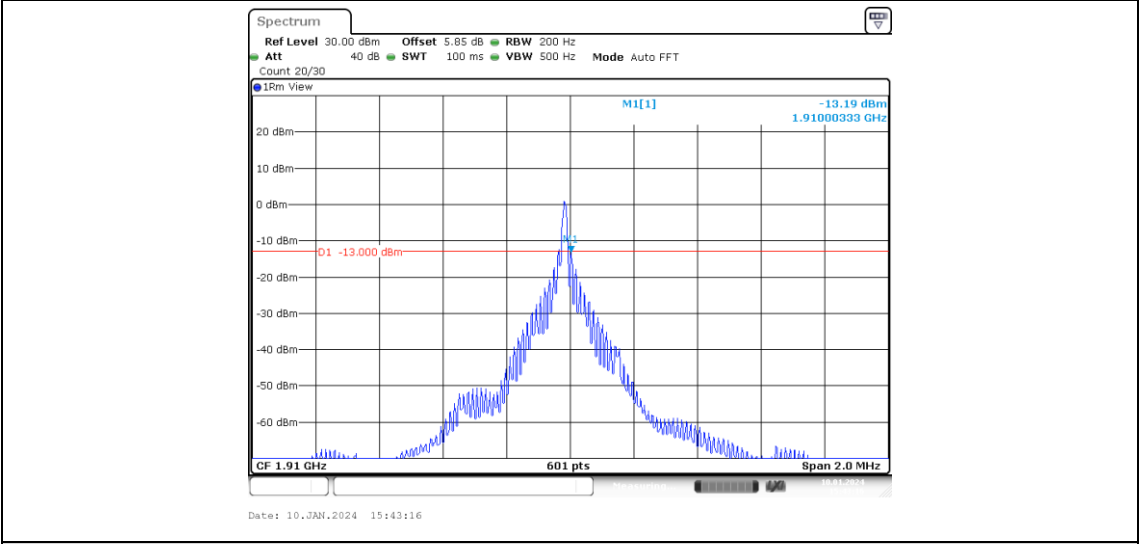
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz--46.58-PASS



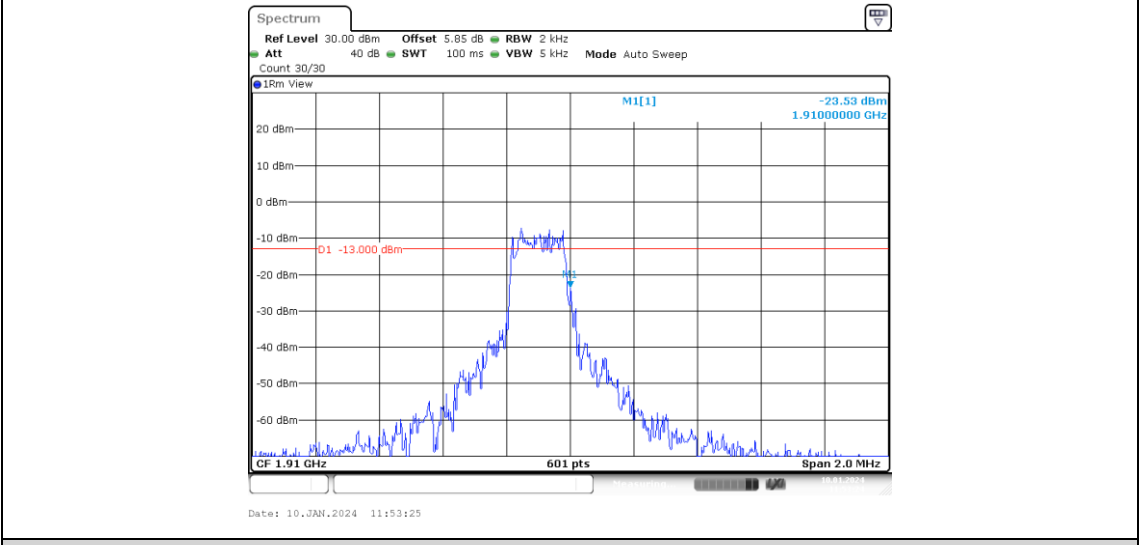
Band2-Stand-Alone-NaN-BPSK-18601-12@0-15kHz--30.30-PASS



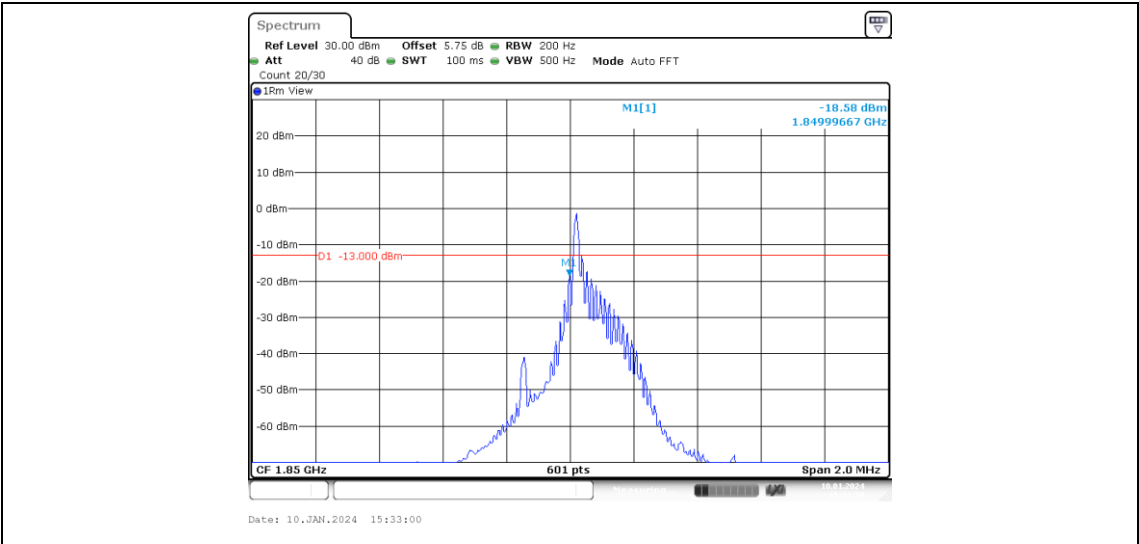
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz--44.78-PASS



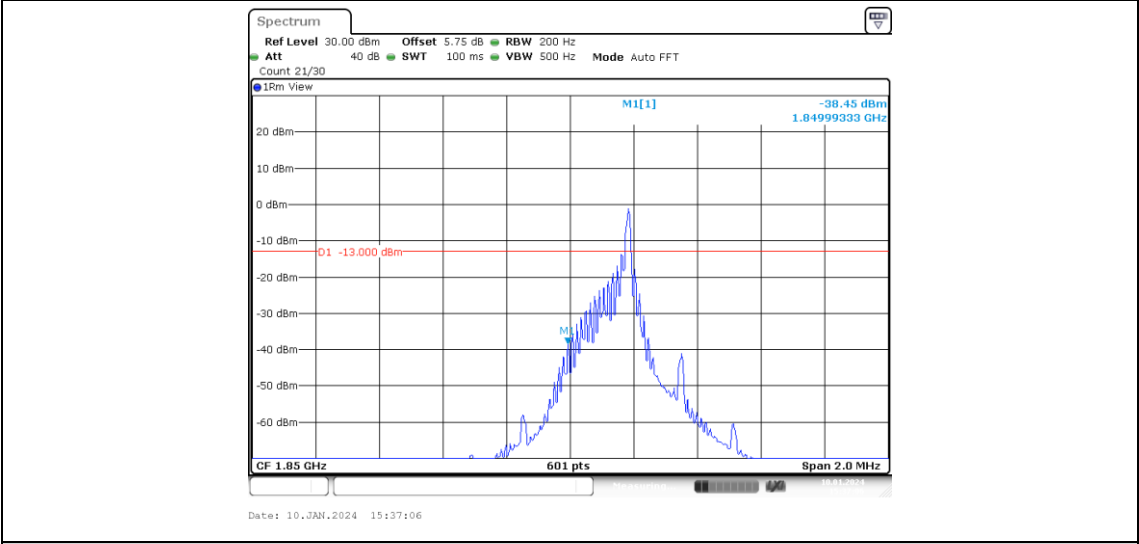
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz--13.19-PASS



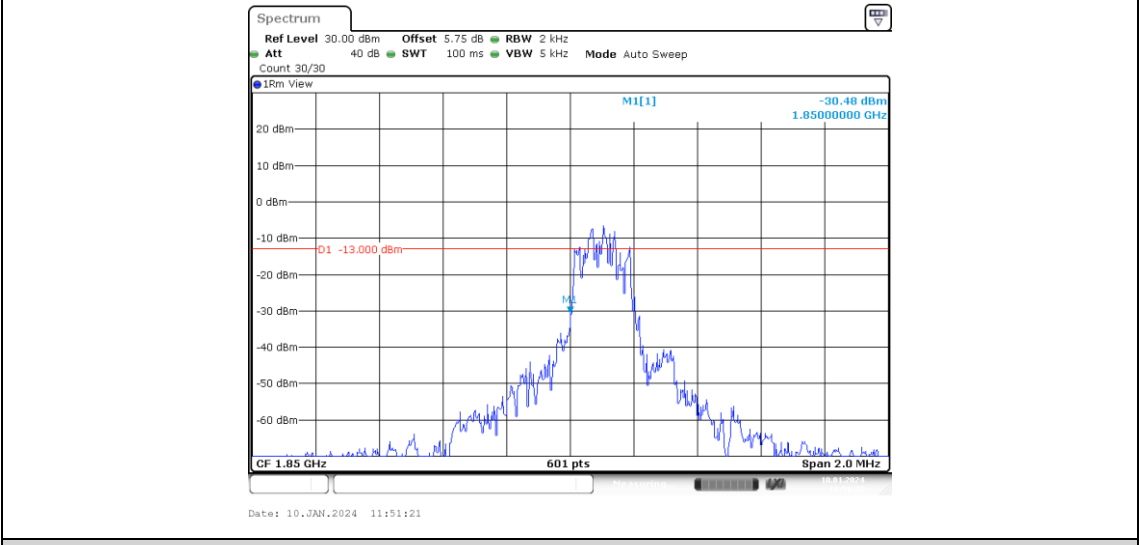
Band2-Stand-Alone-NaN-BPSK-19199-12@0-15kHz--23.53-PASS



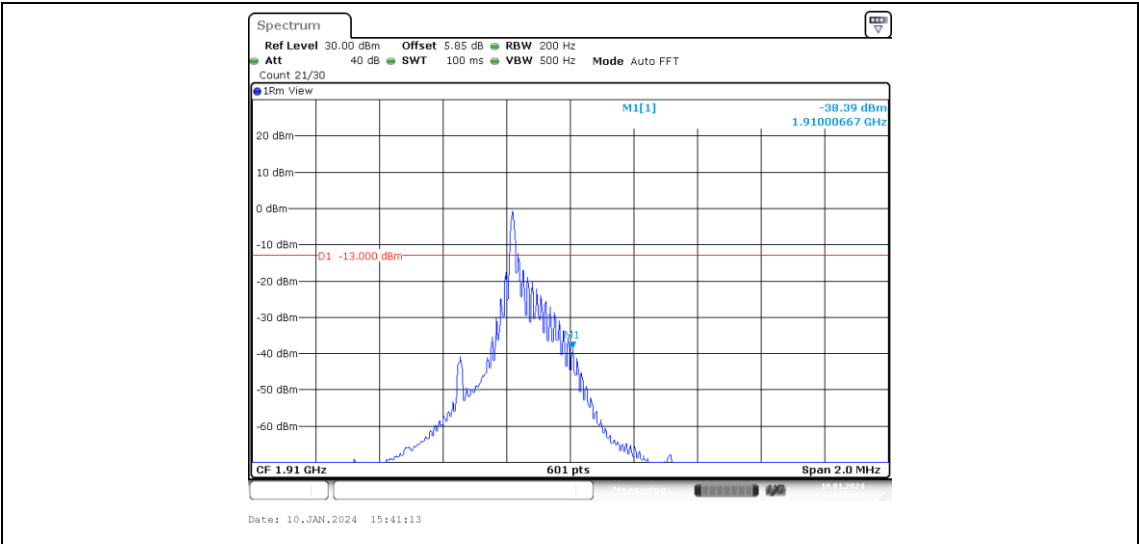
Band2-Stand-Alone-NaN-QPSK-18601-1@0-15kHz--18.58-PASS



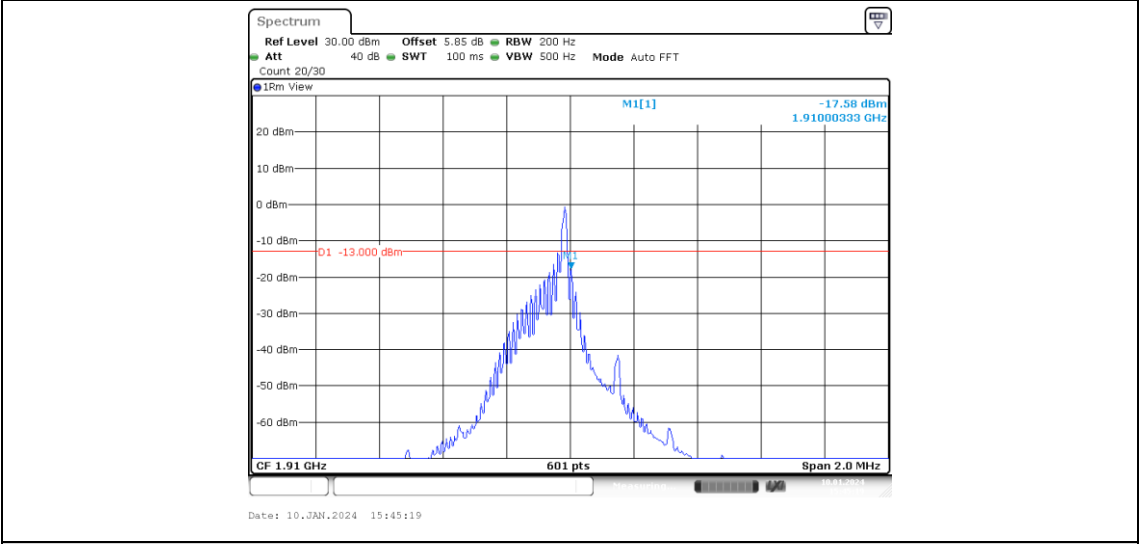
Band2-Stand-Alone-NaN-QPSK-18601-1@11-15kHz--38.45-PASS



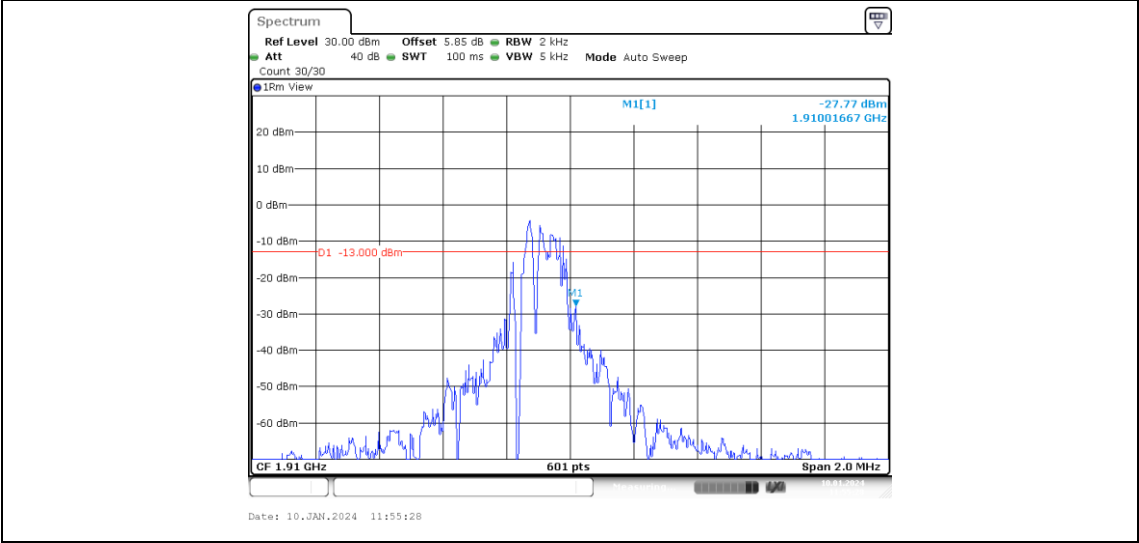
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz--30.48-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@0-15kHz--38.39-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@11-15kHz--17.58-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz--27.77-PASS

Appendix E: Conducted Spurious Emission

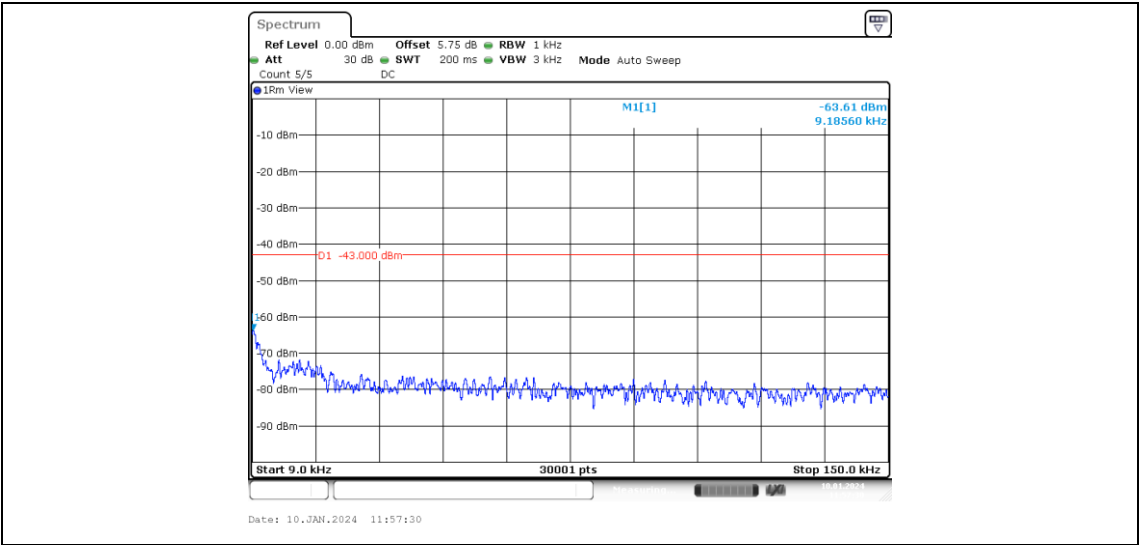
Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	0.009	0.15	-63.61	-43	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	0.15	30	-74.05	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	30	1000	-55.06	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@0	1000	20000	-43.25	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	0.009	0.15	-65.13	-43	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	0.15	30	-76.01	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	30	1000	-54.98	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18601	1@47	1000	20000	-43.61	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	0.009	0.15	-66.09	-43	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	0.15	30	-74.24	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	30	1000	-54.97	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@0	1000	20000	-41.94	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@47	0.009	0.15	-64.5	-43	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@47	0.15	30	-72.83	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@47	30	1000	-55	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	18876	1@47	1000	20000	-44.89	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	0.009	0.15	-61.17	-43	PASS

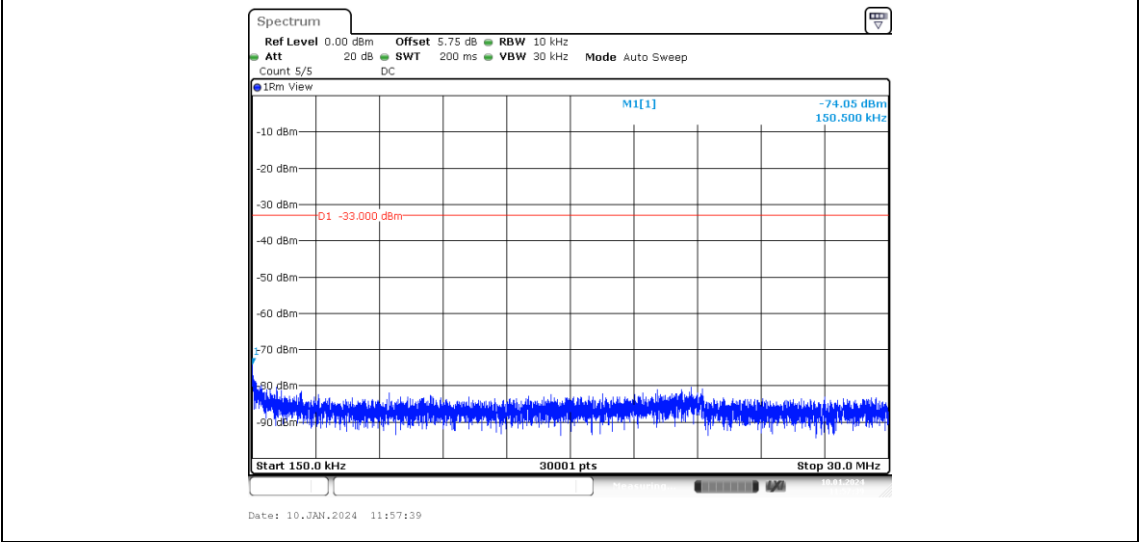
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	0.15	30	-76.18	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	30	1000	-54.92	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@0	1000	20000	-43.88	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	0.009	0.15	-63.81	-43	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	0.15	30	-73.57	-33	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	30	1000	-54.95	-13	PASS
Band2	Stand-Alone	3.75kHz	NaN	QPSK	19199	1@47	1000	20000	-43.06	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	0.009	0.15	-70.19	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	0.15	30	-71.77	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	30	1000	-55.01	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@0	1000	20000	-44.68	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	0.009	0.15	-70.59	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	0.15	30	-74	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	30	1000	-54.99	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18601	1@11	1000	20000	-46.97	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	0.009	0.15	-67.27	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	0.15	30	-74.66	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	30	1000	-54.9	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@0	1000	20000	-44.37	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@11	0.009	0.15	-68.61	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@11	0.15	30	-75.21	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@11	30	1000	-54.91	-13	PASS

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Band2	Stand-Alone	15kHz	NaN	BPSK	18876	1@11	1000	20000	-42.07	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	0.009	0.15	-69.75	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	0.15	30	-75.11	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	30	1000	-54.98	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@0	1000	20000	-44.04	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	0.009	0.15	-69.48	-43	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	0.15	30	-75.99	-33	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	30	1000	-54.94	-13	PASS
Band2	Stand-Alone	15kHz	NaN	BPSK	19199	1@11	1000	20000	-43.86	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	0.009	0.15	-68.24	-43	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	0.15	30	-78.26	-33	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	30	1000	-55.09	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18601	12@0	1000	20000	-47.57	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	12@0	0.009	0.15	-68.5	-43	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	12@0	0.15	30	-78.59	-33	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	12@0	30	1000	-54.99	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	18876	12@0	1000	20000	-47.18	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	0.009	0.15	-69.45	-43	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	0.15	30	-73.75	-33	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	30	1000	-54.96	-13	PASS
Band2	Stand-Alone	15kHz	NaN	QPSK	19199	12@0	1000	20000	-47.38	-13	PASS

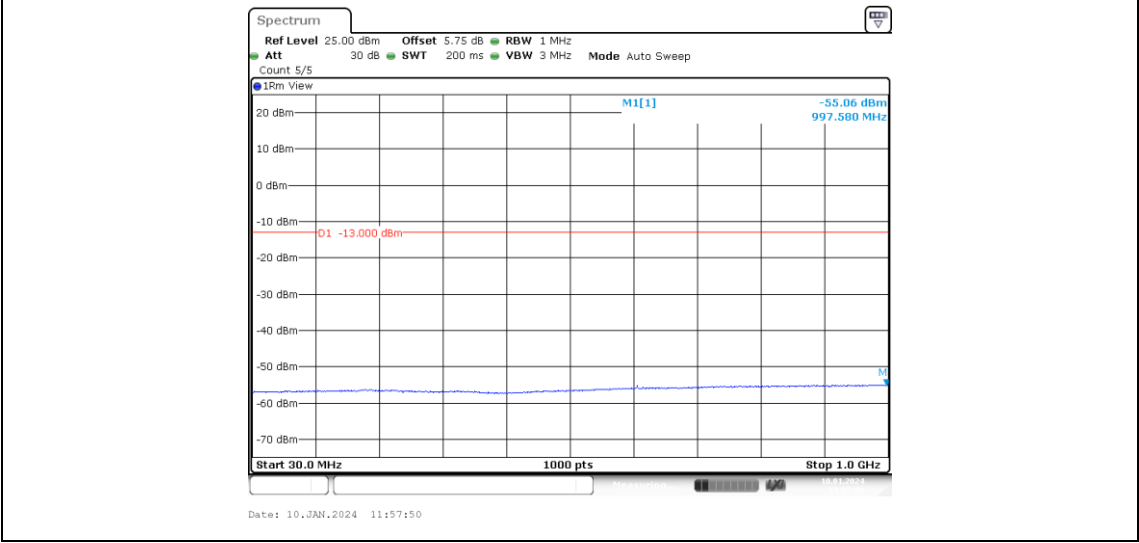
Test Graphs

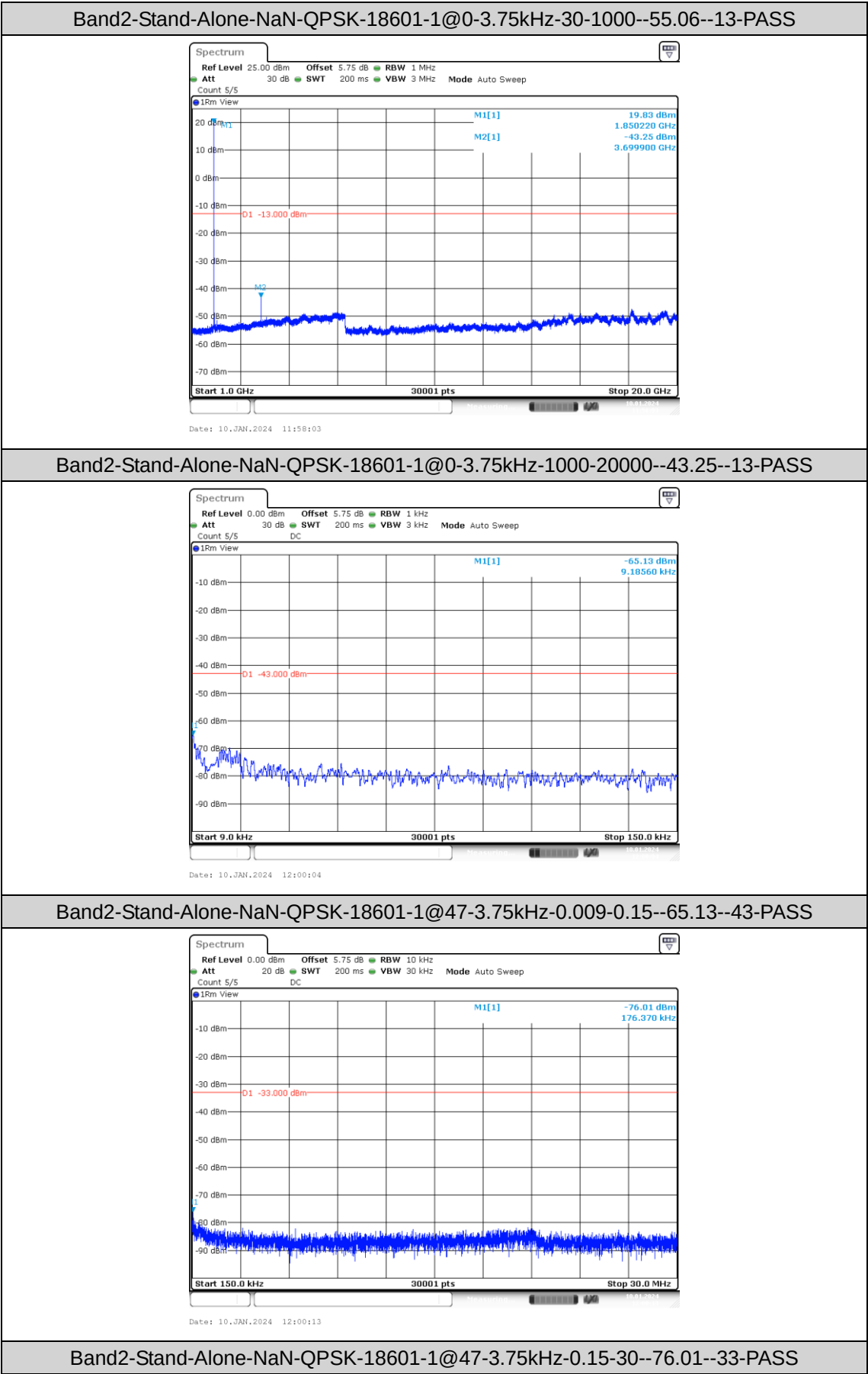


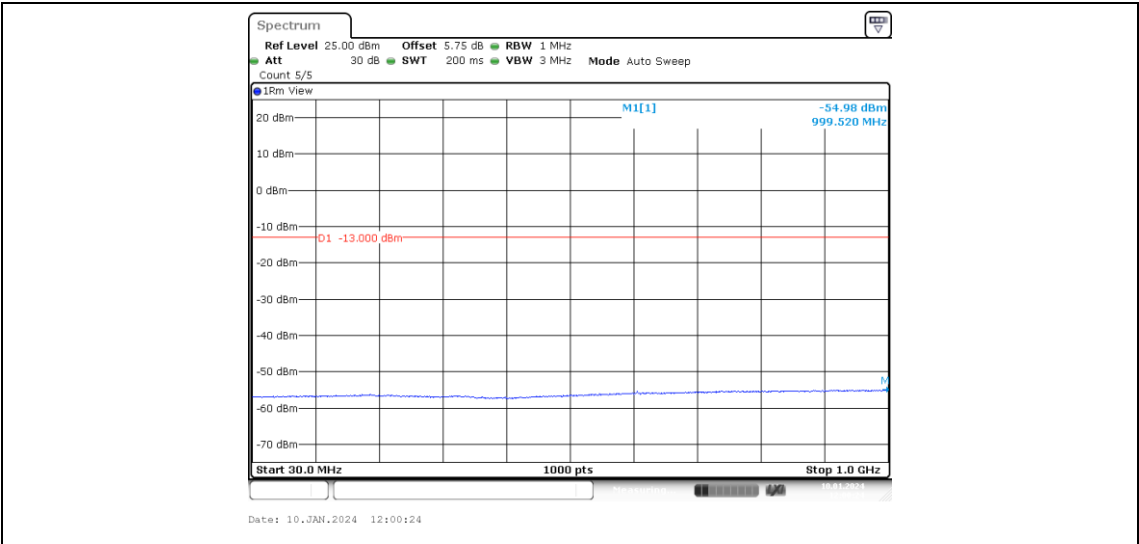
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-0.009-0.15--63.61--43-PASS



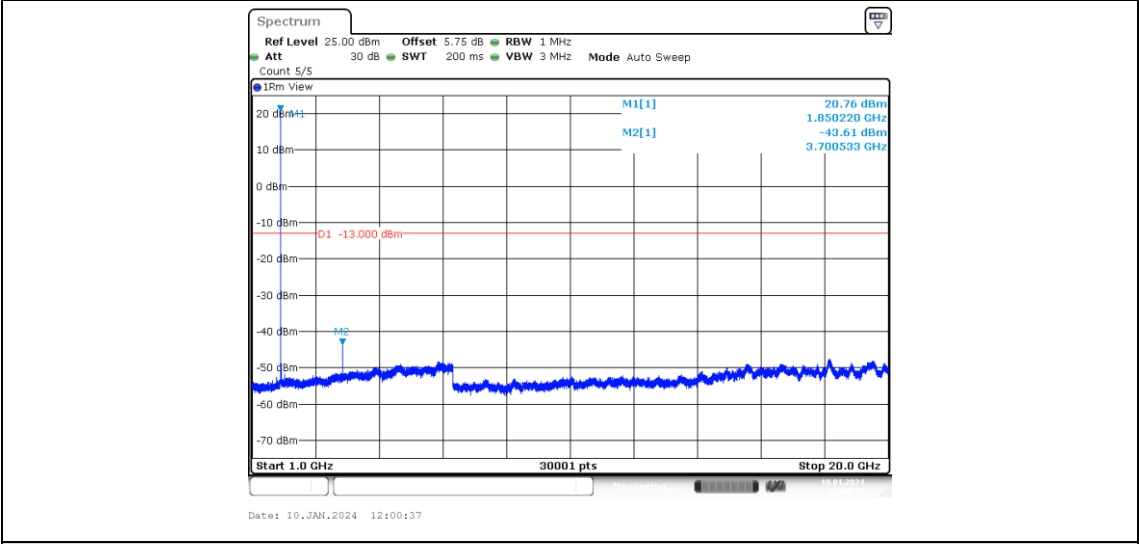
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-0.15-30--74.05--33-PASS



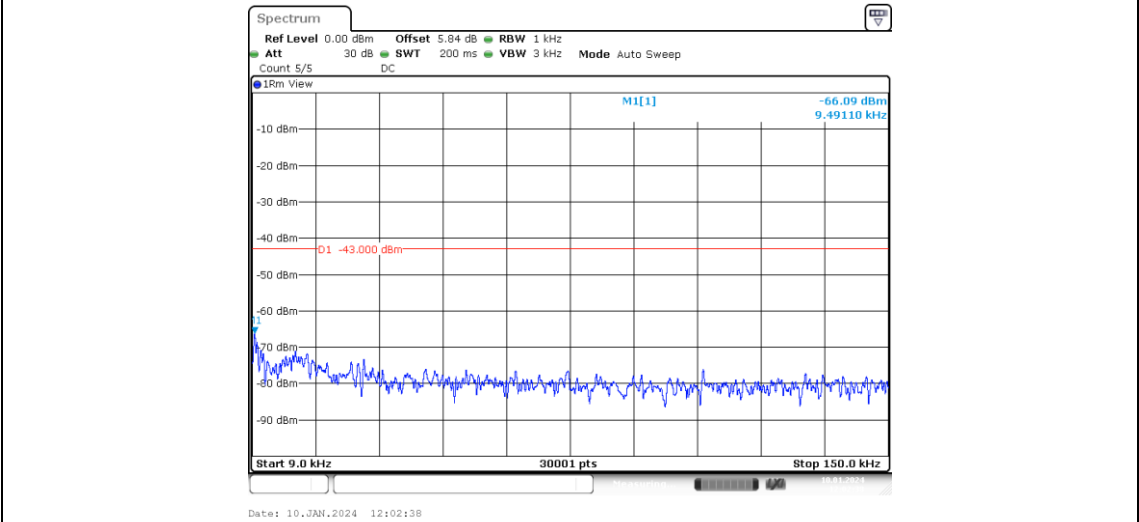




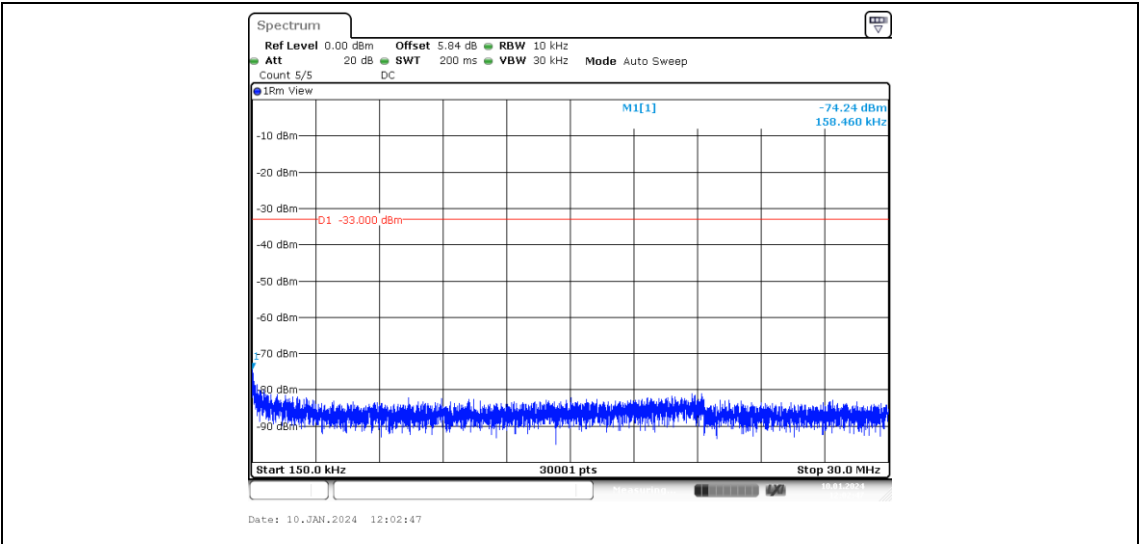
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-30-1000--54.98--13-PASS



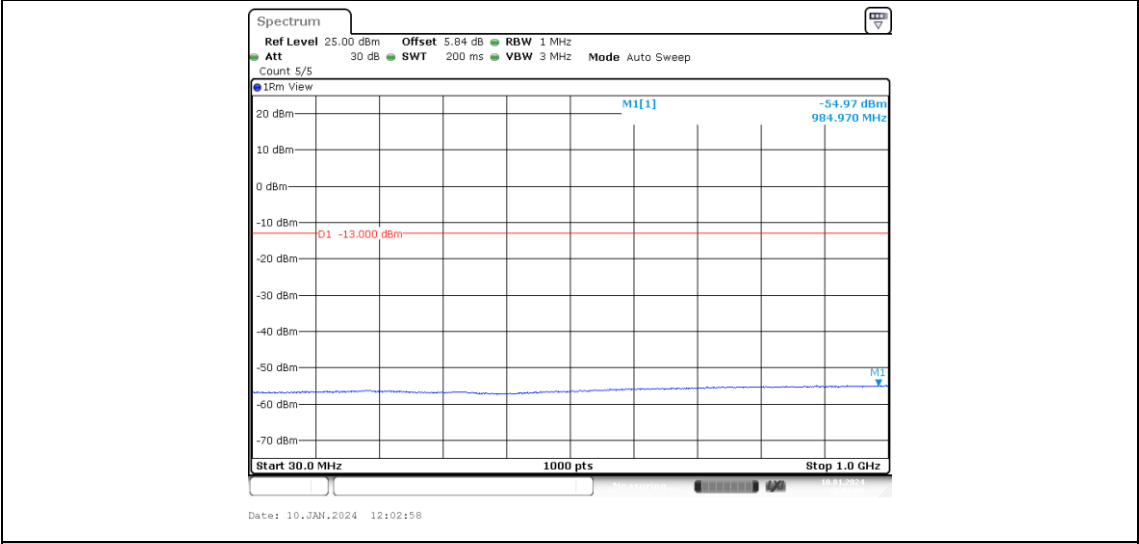
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-1000-20000--43.61--13-PASS



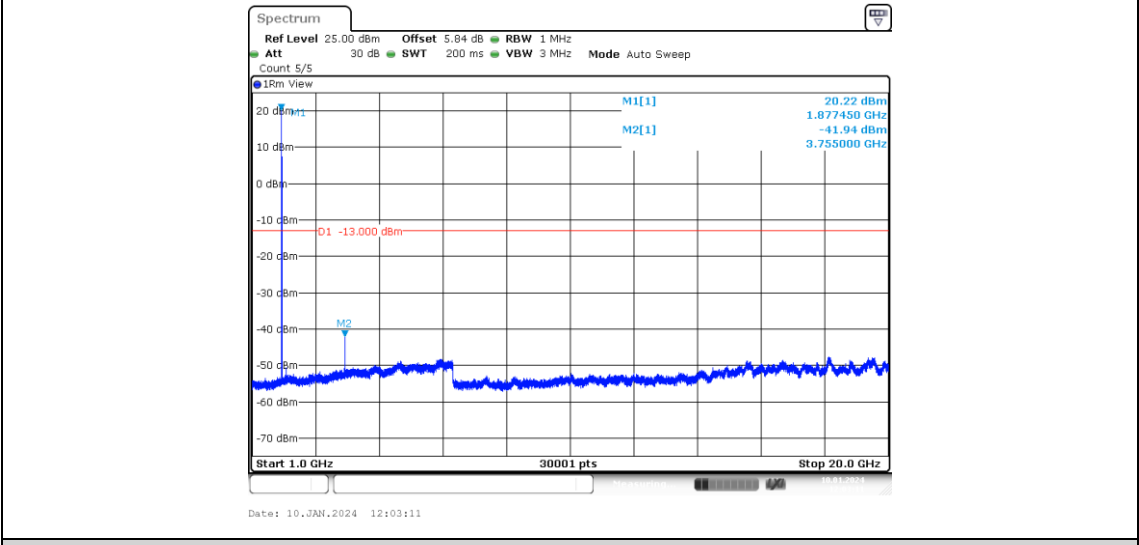
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-0.009-0.15--66.09--43-PASS



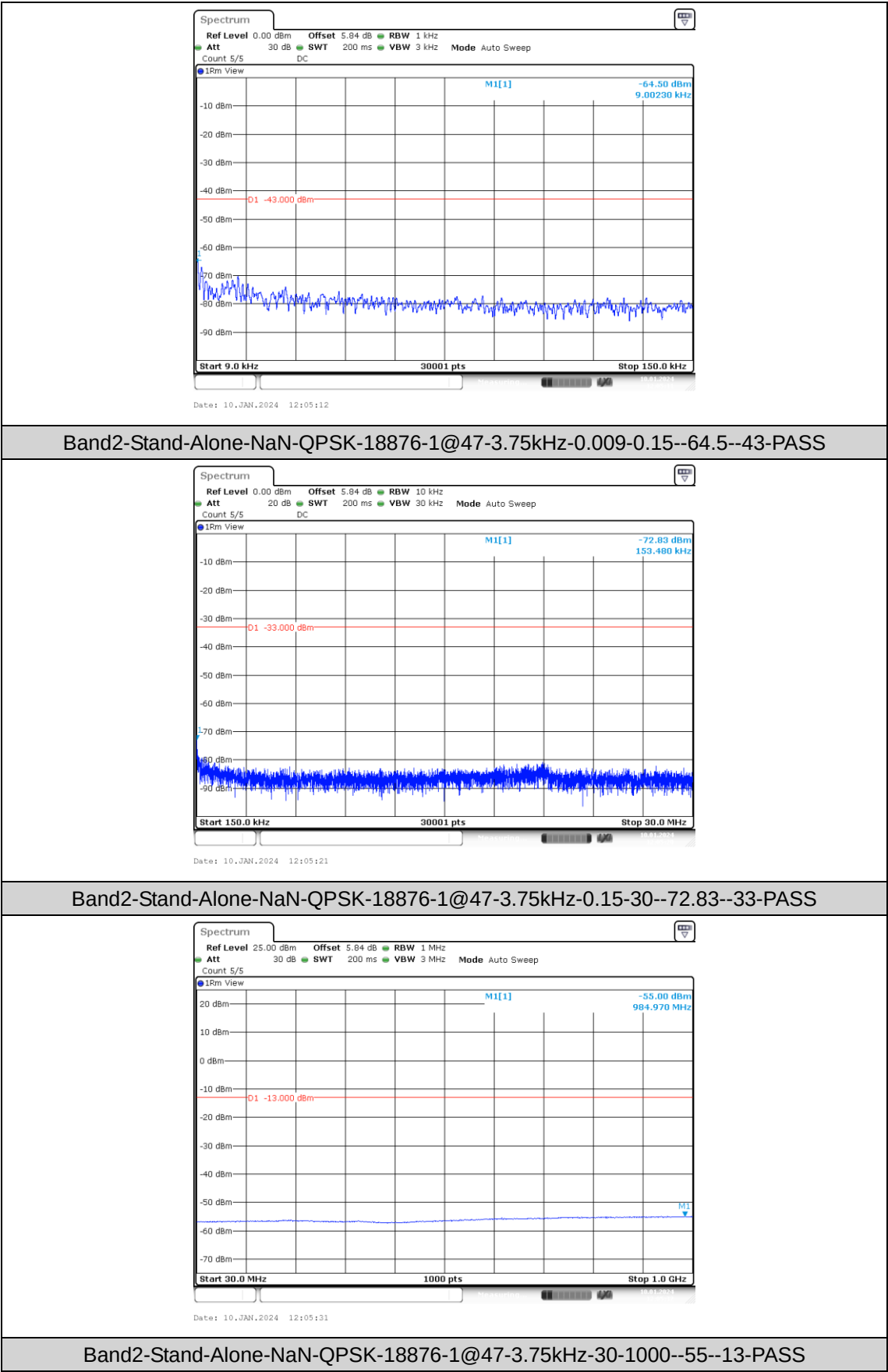
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-0.15-30--74.24--33-PASS

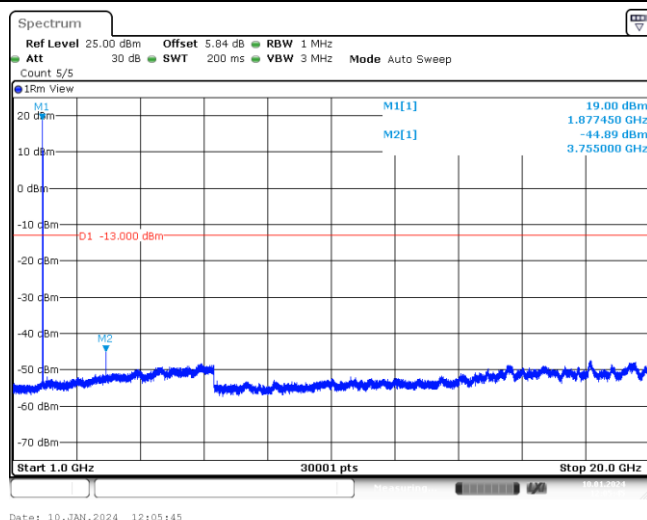


Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-30-1000--54.97--13-PASS

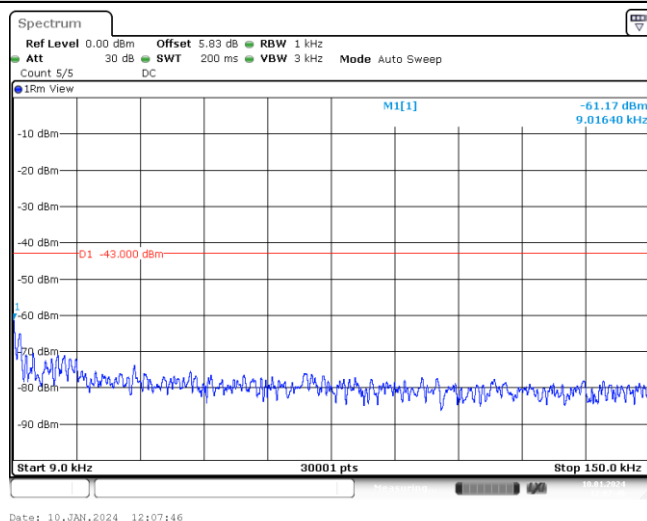


Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-1000-20000--41.94--13-PASS

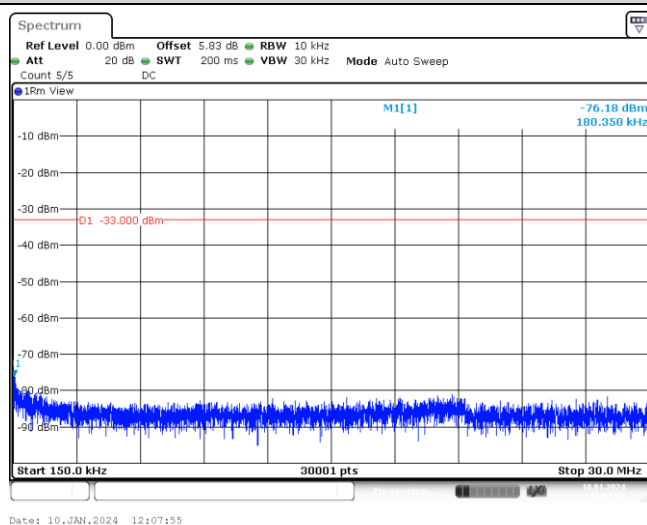




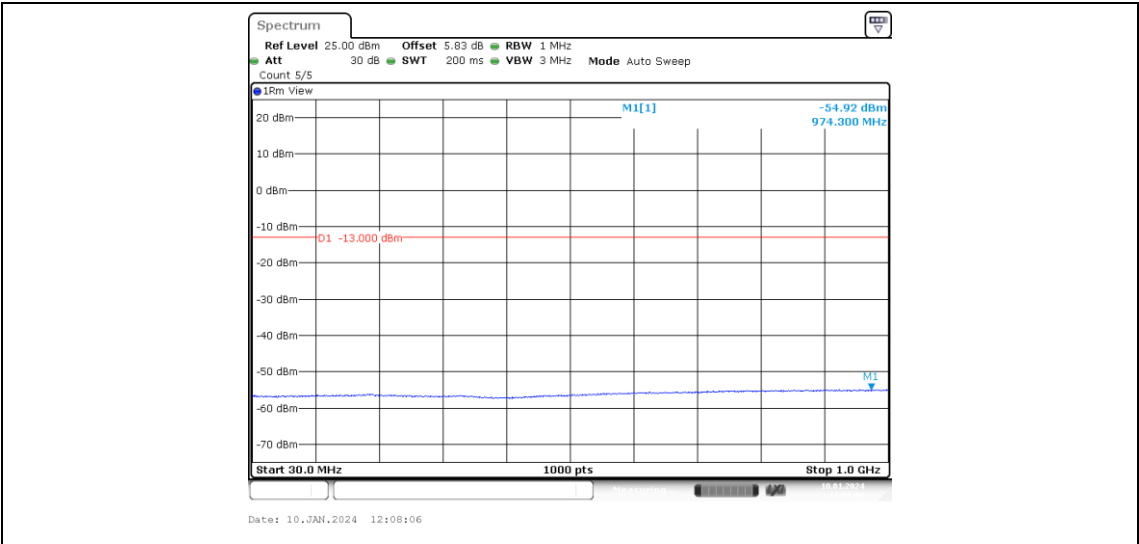
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-1000-20000--44.89--13-PASS



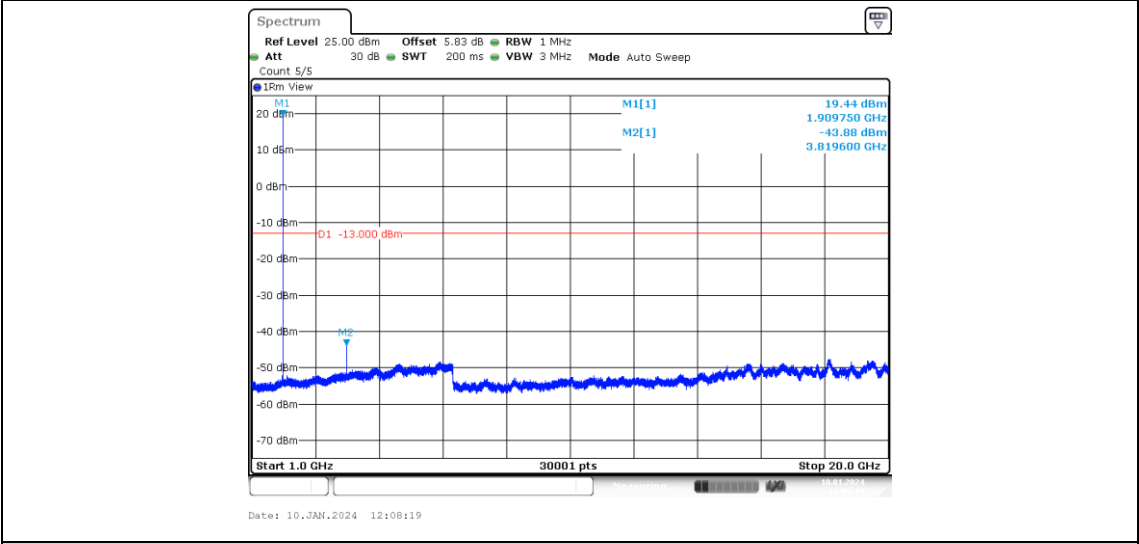
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.009-0.15--61.17--43-PASS



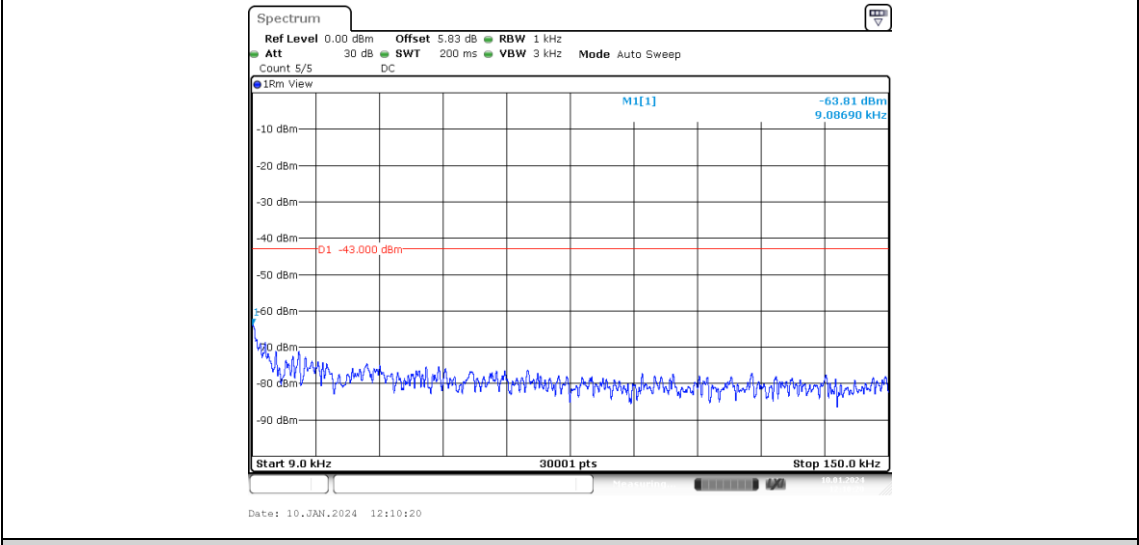
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.15-30--76.18--33-PASS



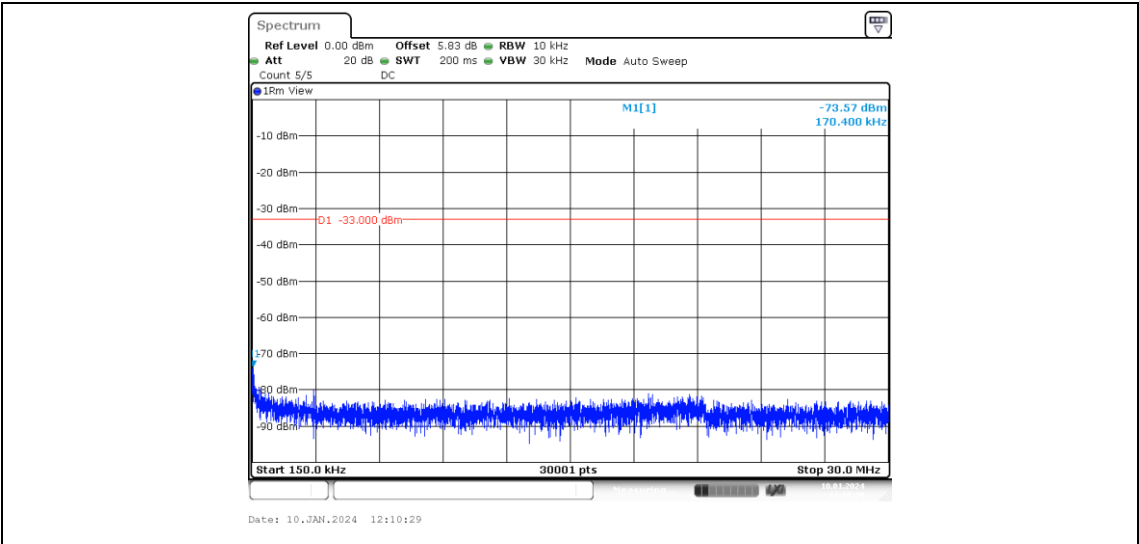
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-30-1000--54.92--13-PASS



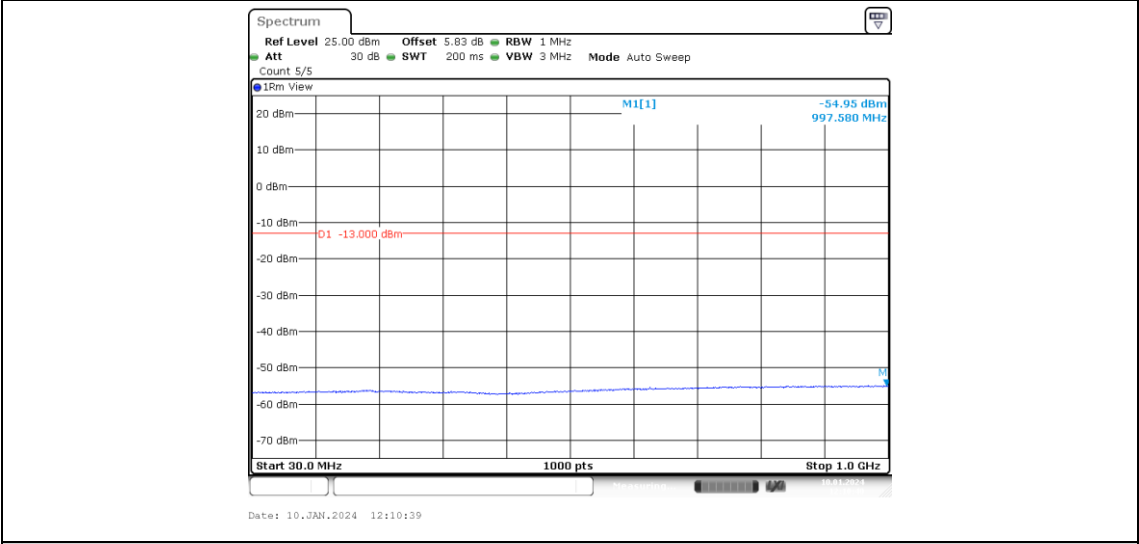
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-1000-20000--43.88--13-PASS



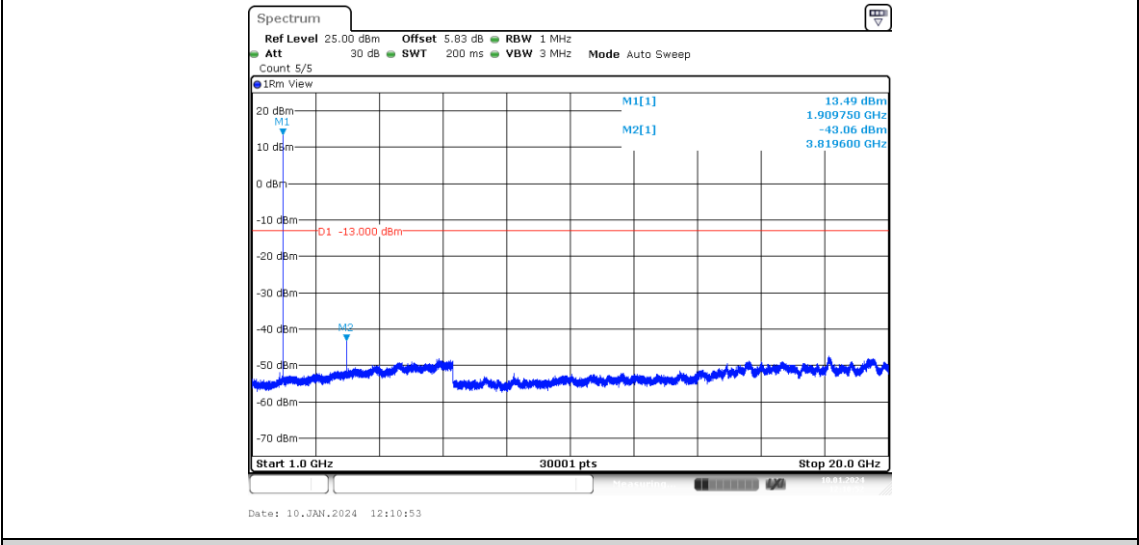
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-0.009-0.15--63.81--43-PASS



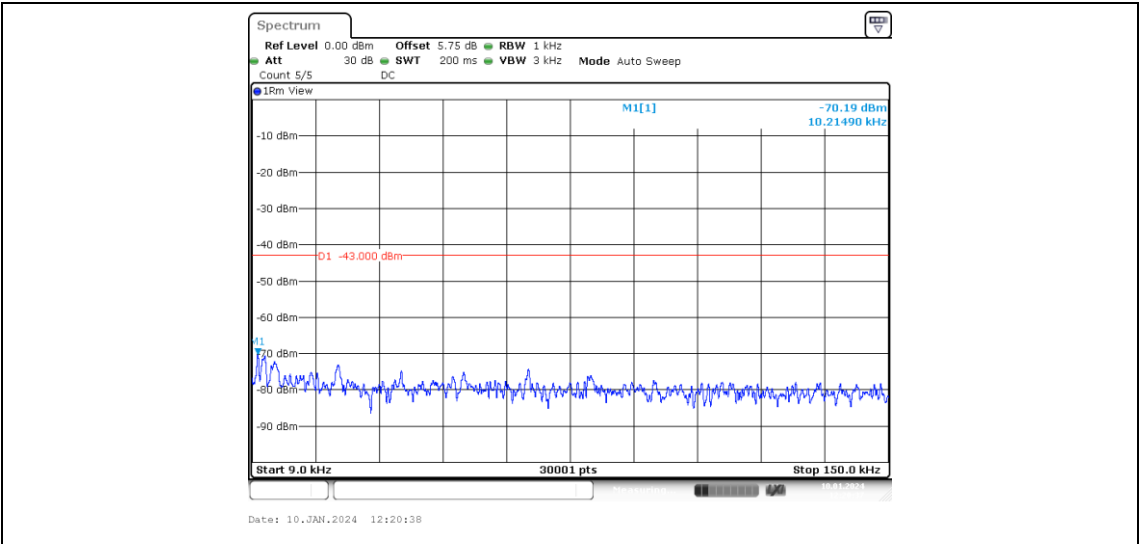
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-0.15-30--73.57--33-PASS



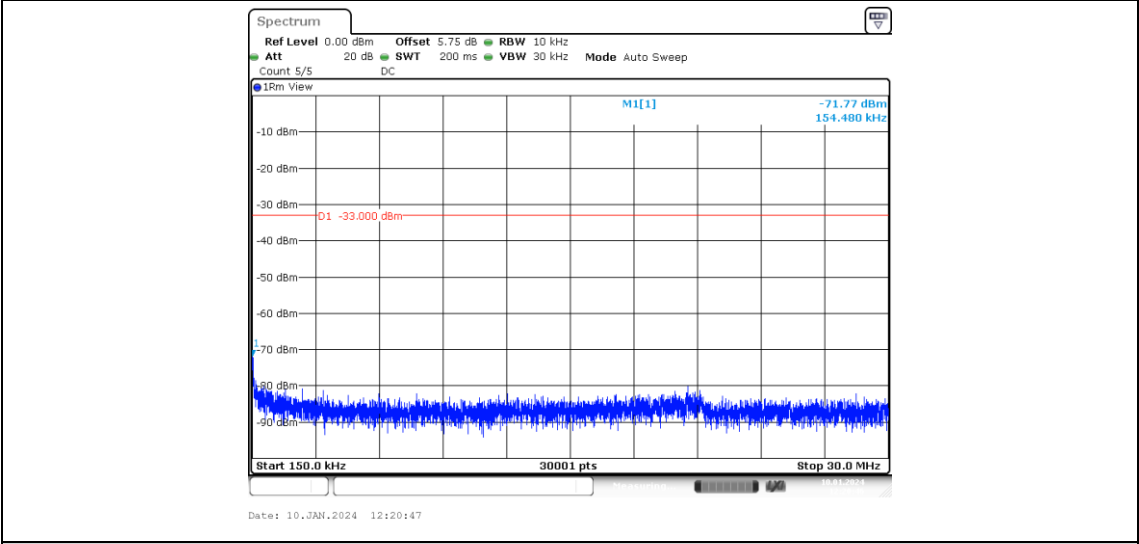
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-30-1000--54.95--13-PASS



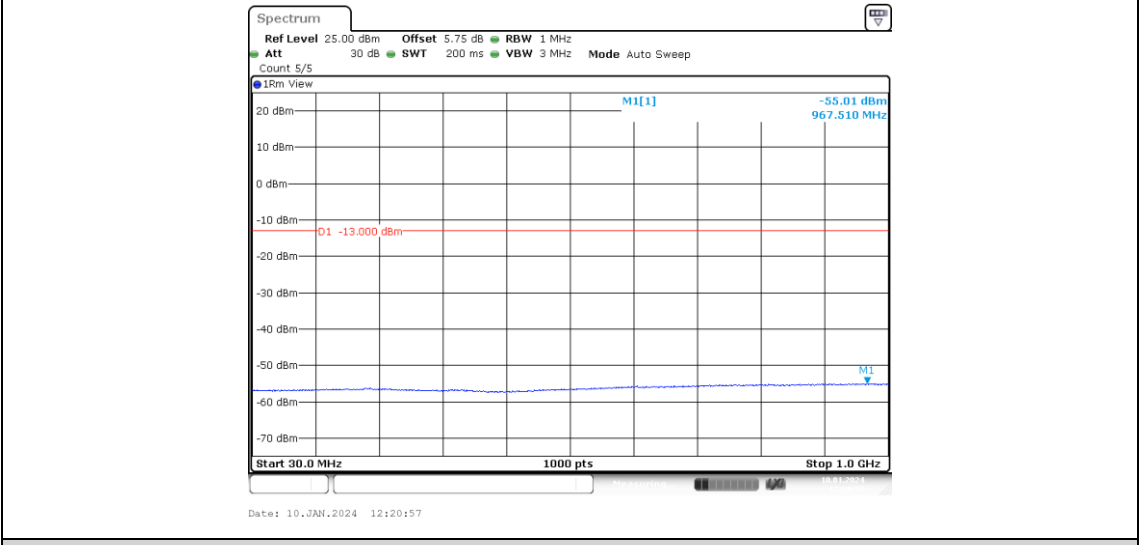
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-1000-20000--43.06--13-PASS



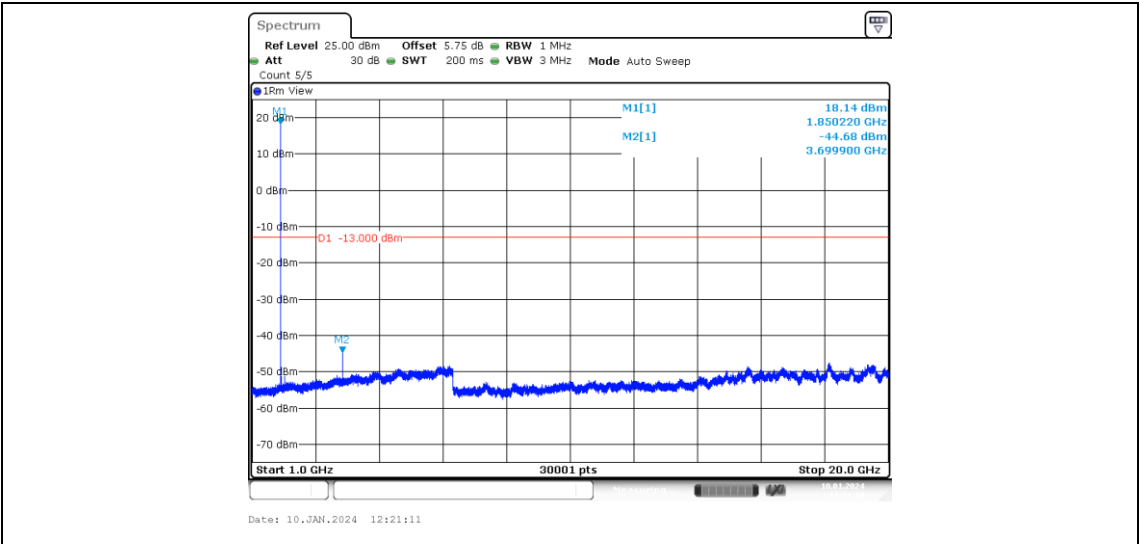
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.009-0.15--70.19--43-PASS



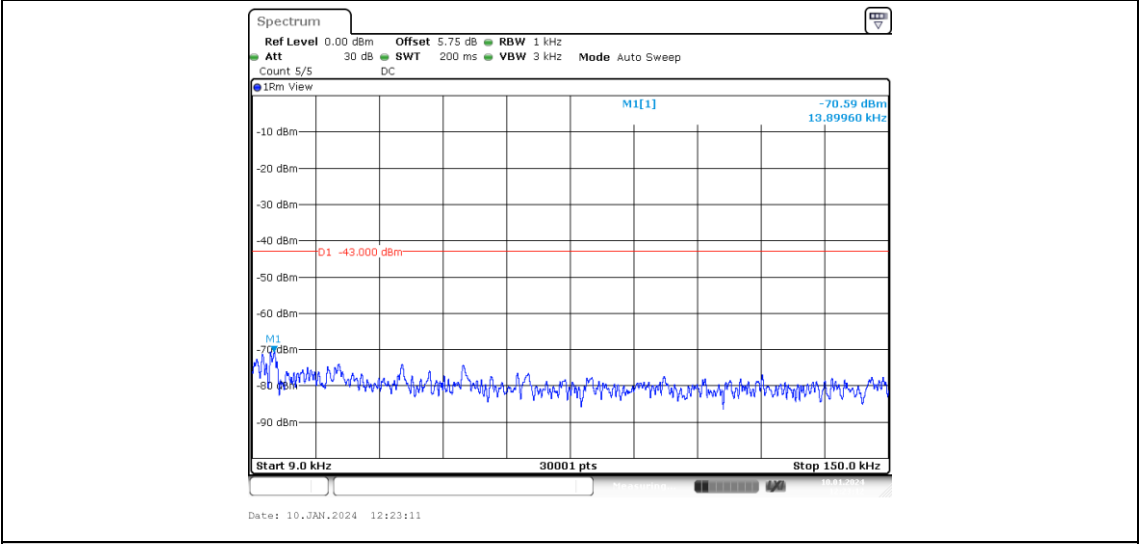
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.15-30--71.77--33-PASS



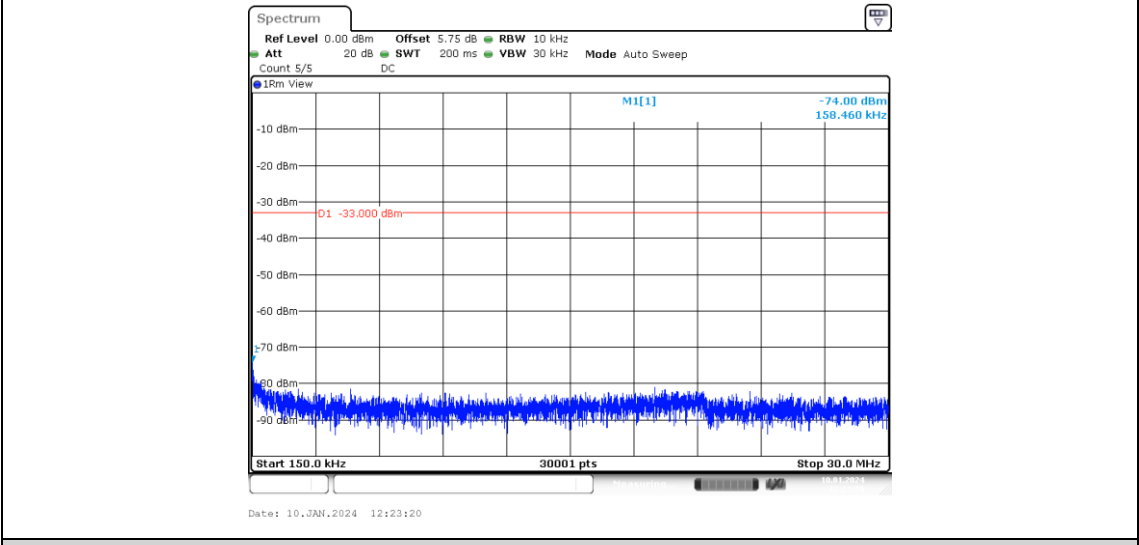
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-30-1000--55.01--13-PASS



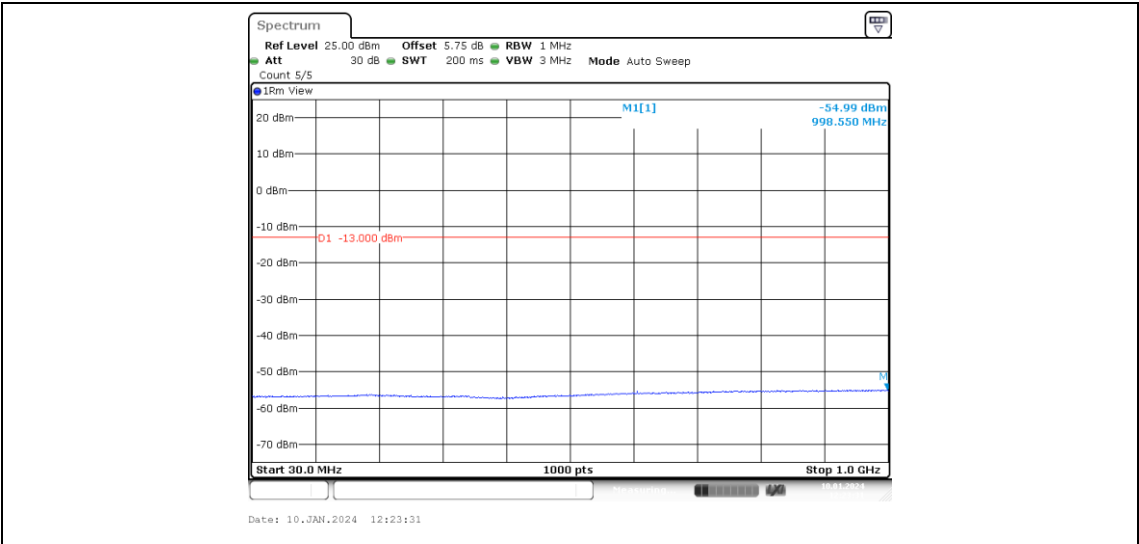
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-1000-20000--44.68--13-PASS



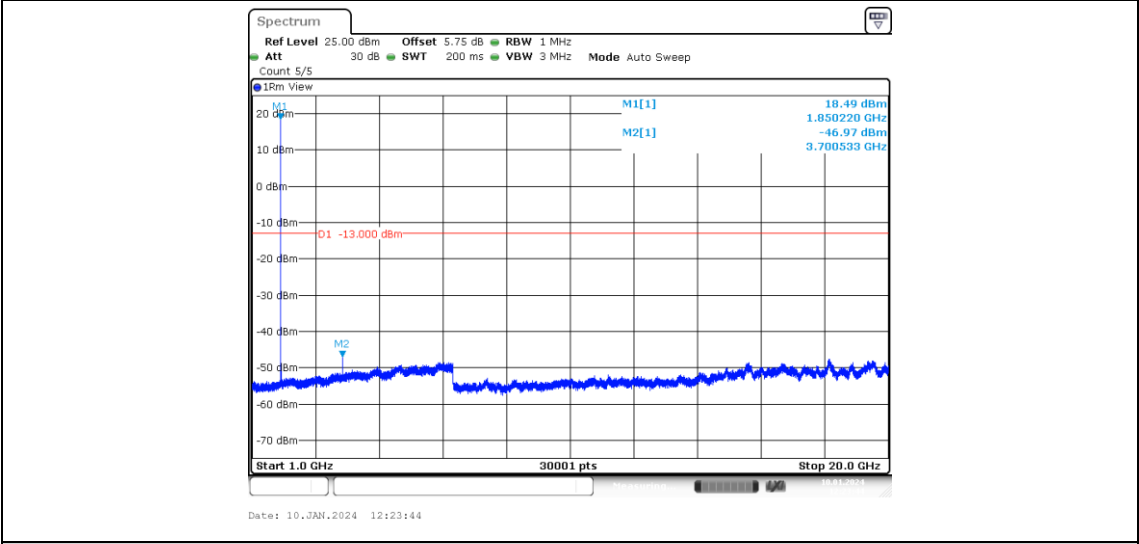
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-0.009-0.15--70.59--43-PASS



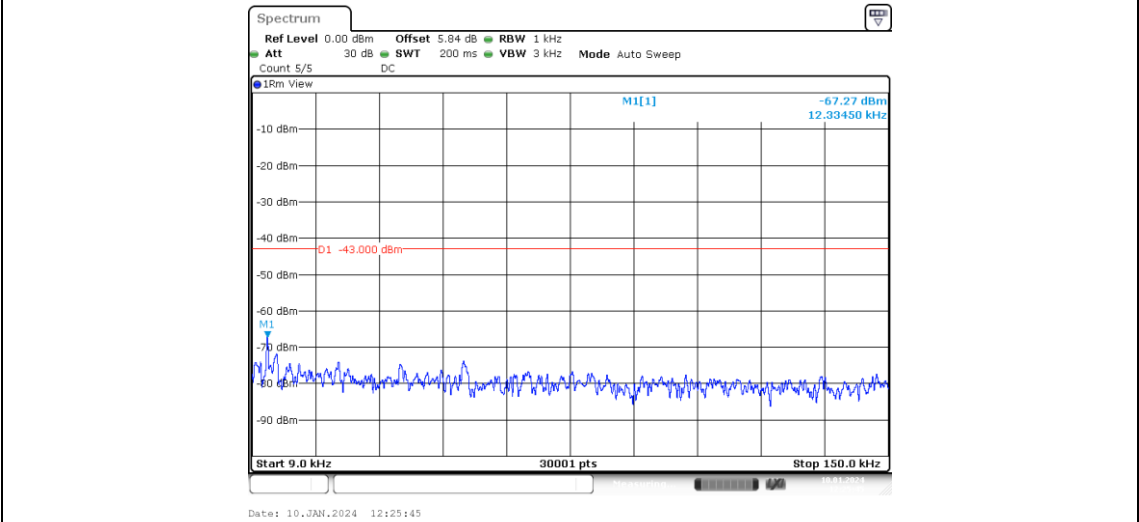
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-0.15-30--74--33-PASS



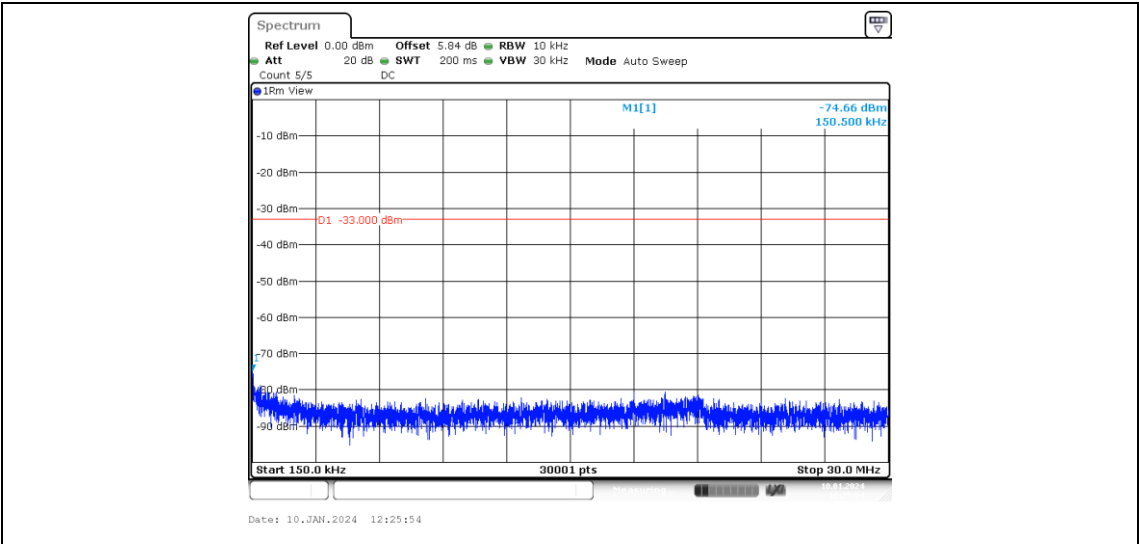
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-30-1000--54.99--13-PASS



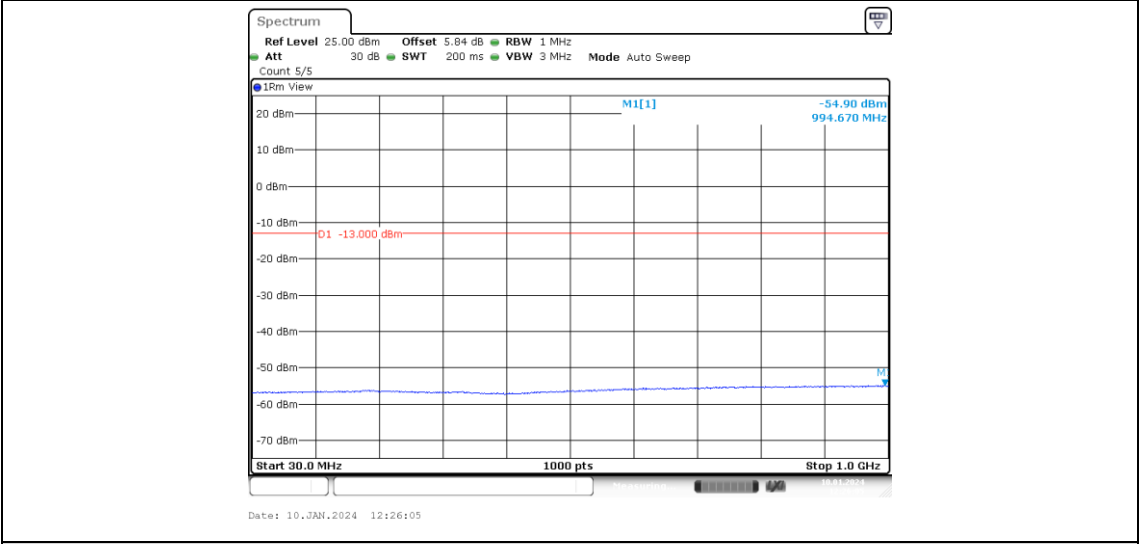
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-1000-20000--46.97--13-PASS



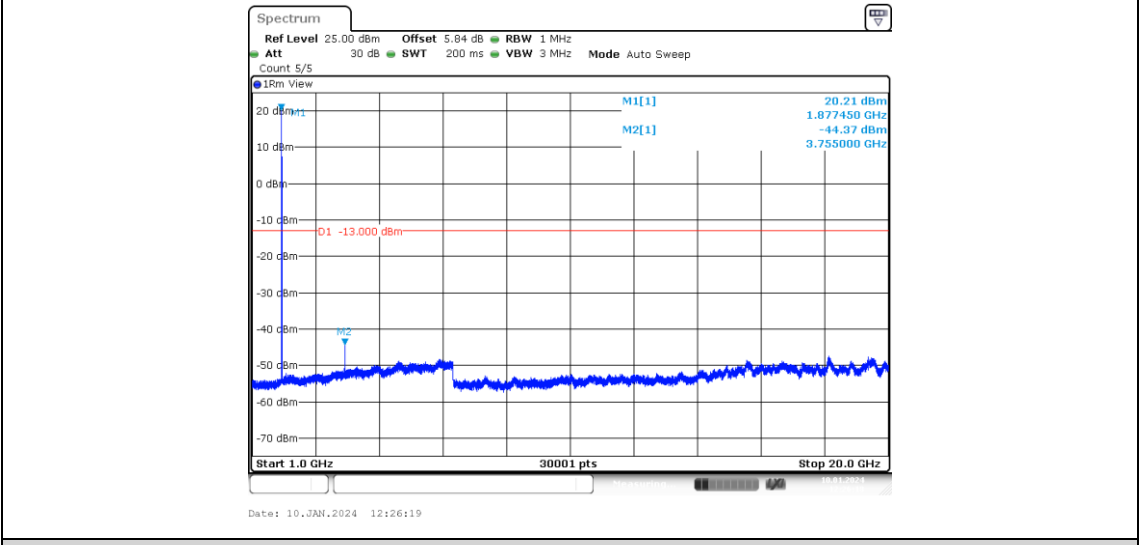
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.009-0.15--67.27--43-PASS



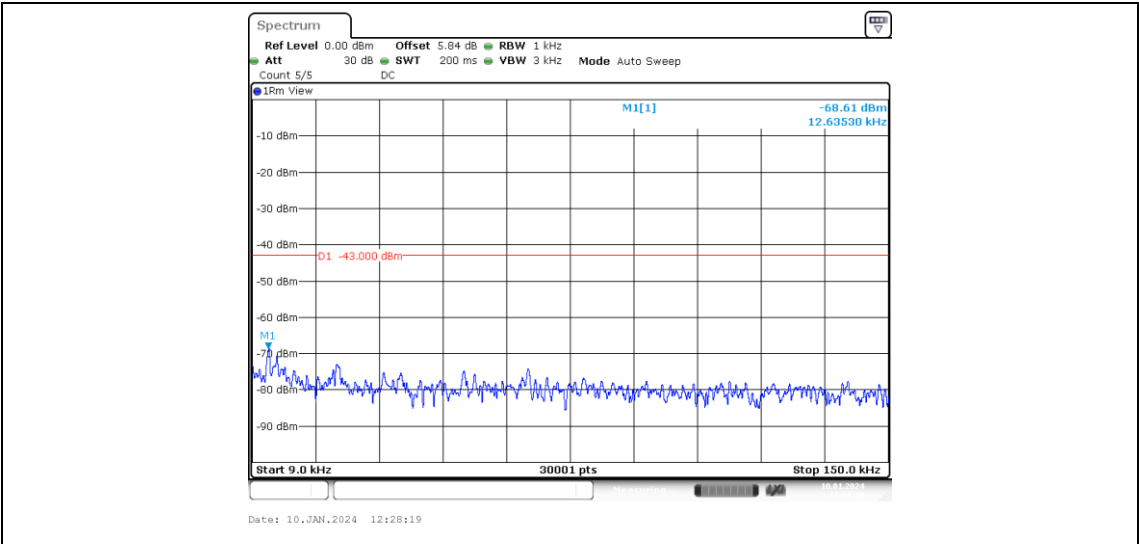
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.15-30--74.66--33-PASS



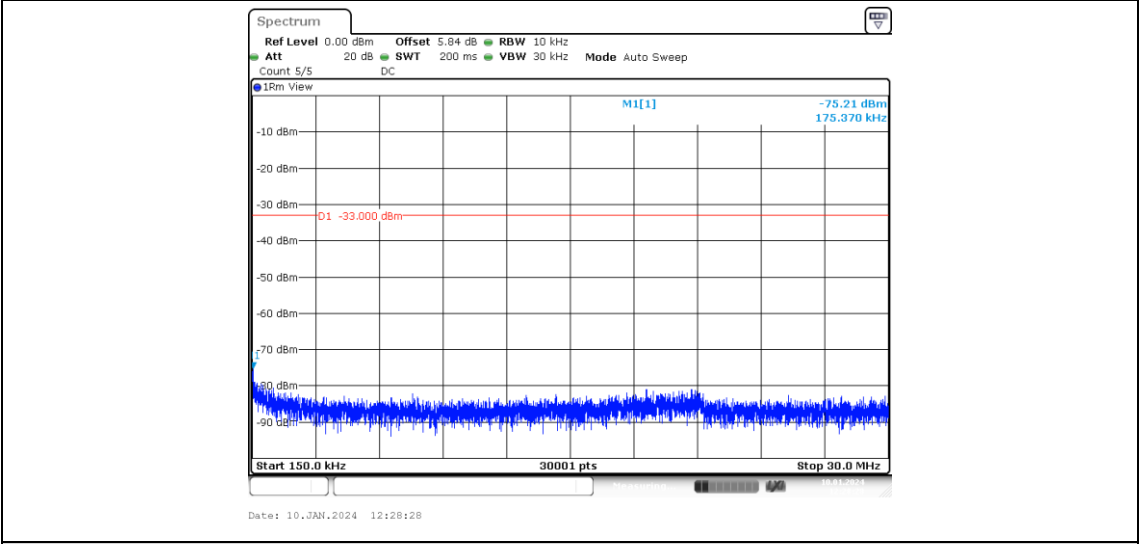
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-30-1000--54.9--13-PASS



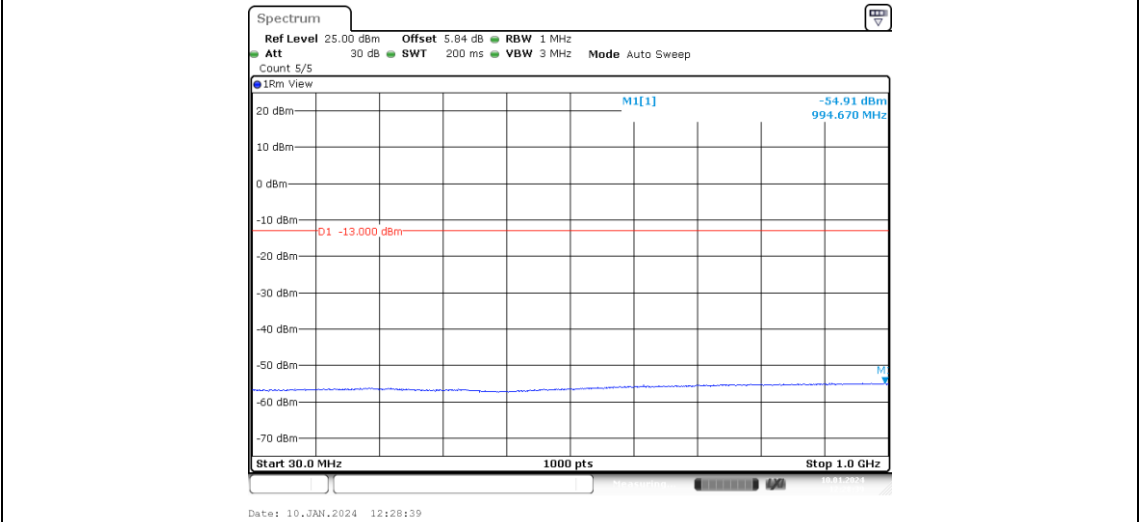
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-1000-20000--44.37--13-PASS



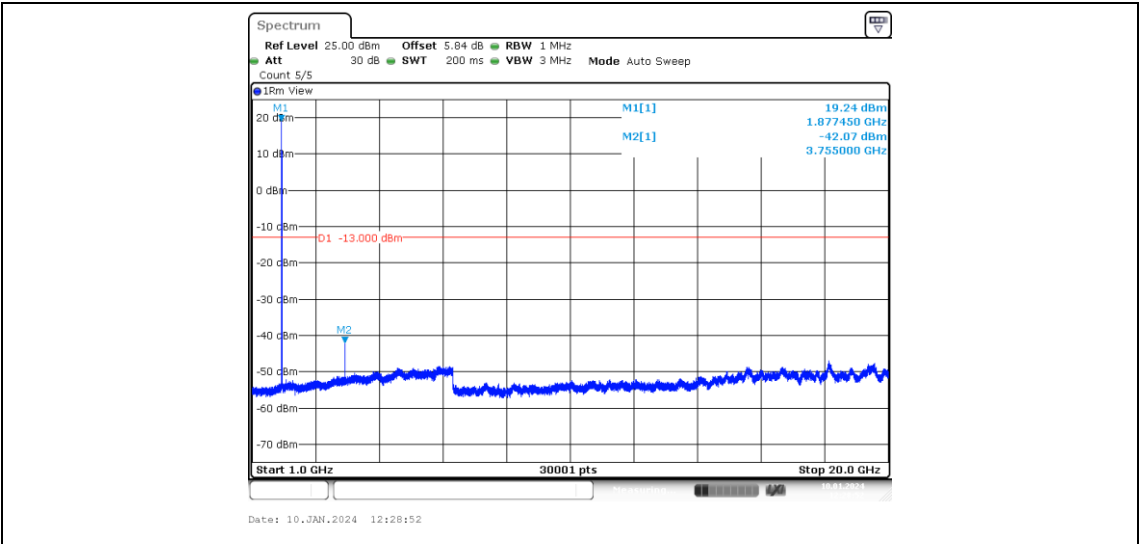
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-0.009-0.15--68.61--43-PASS



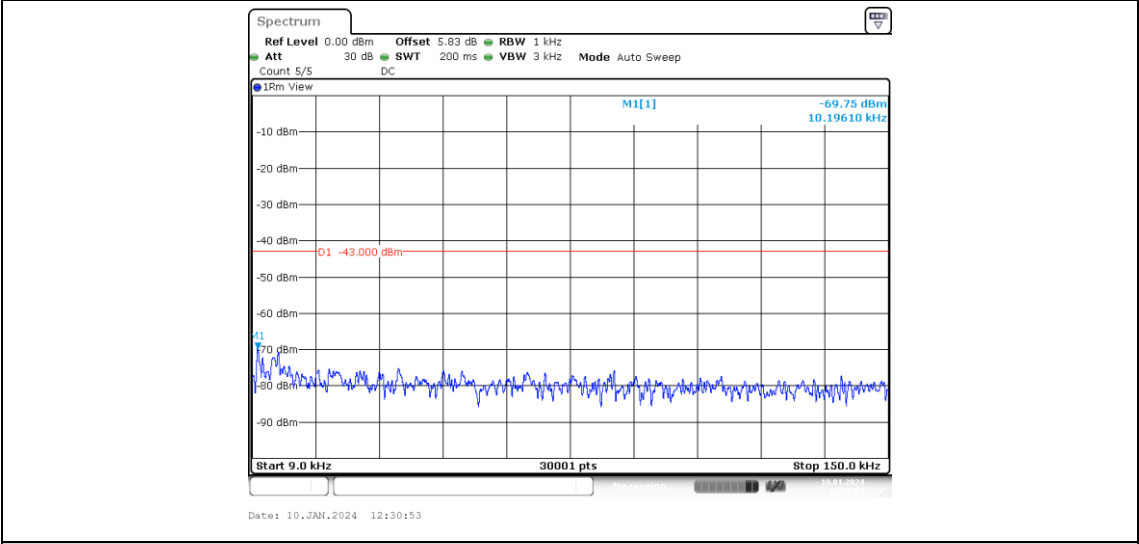
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-0.15-30--75.21--33-PASS



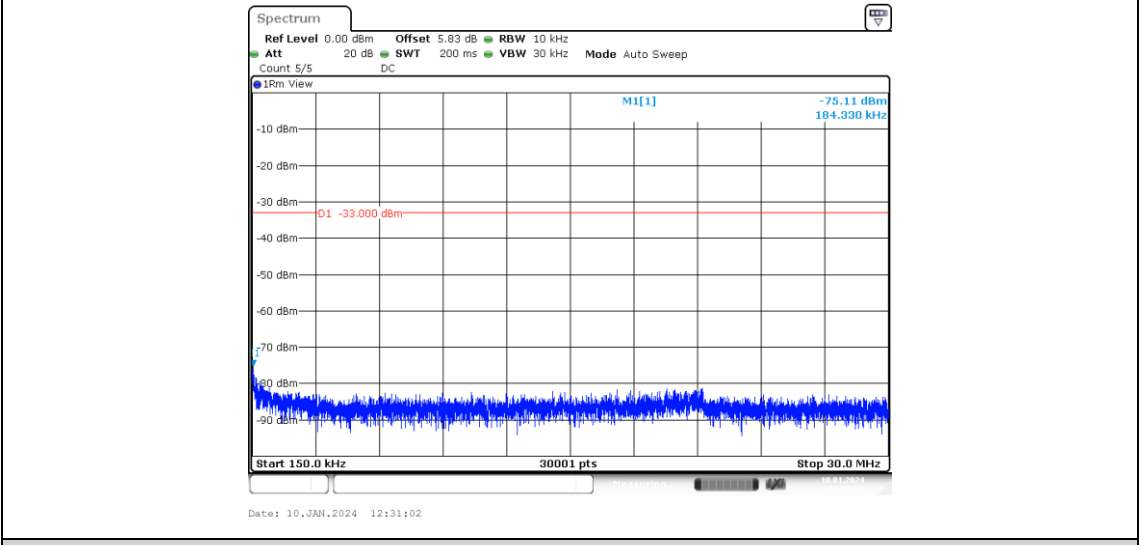
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-30-1000--54.91--13-PASS



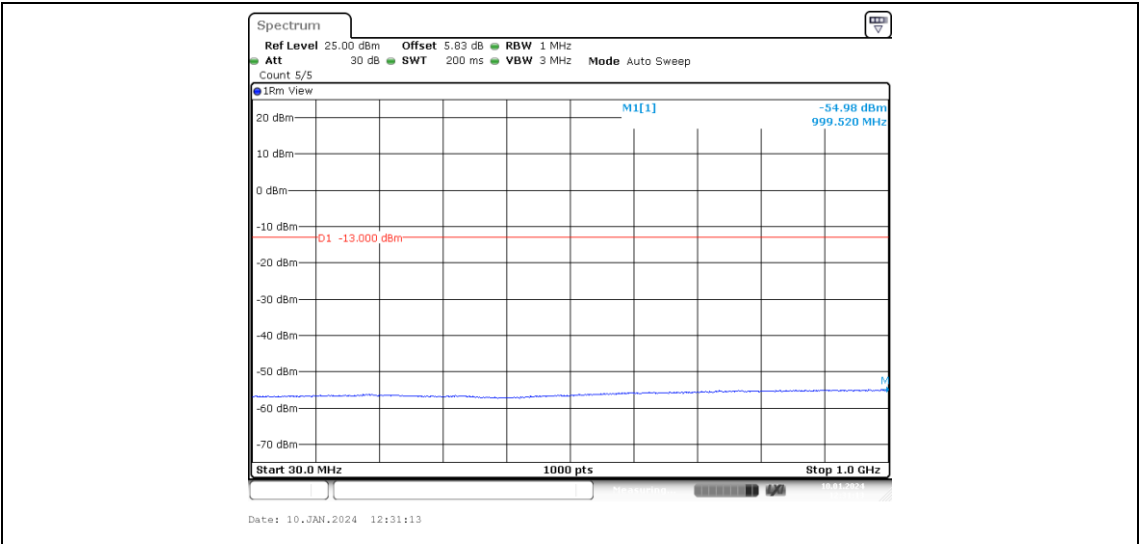
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-1000-20000--42.07--13-PASS



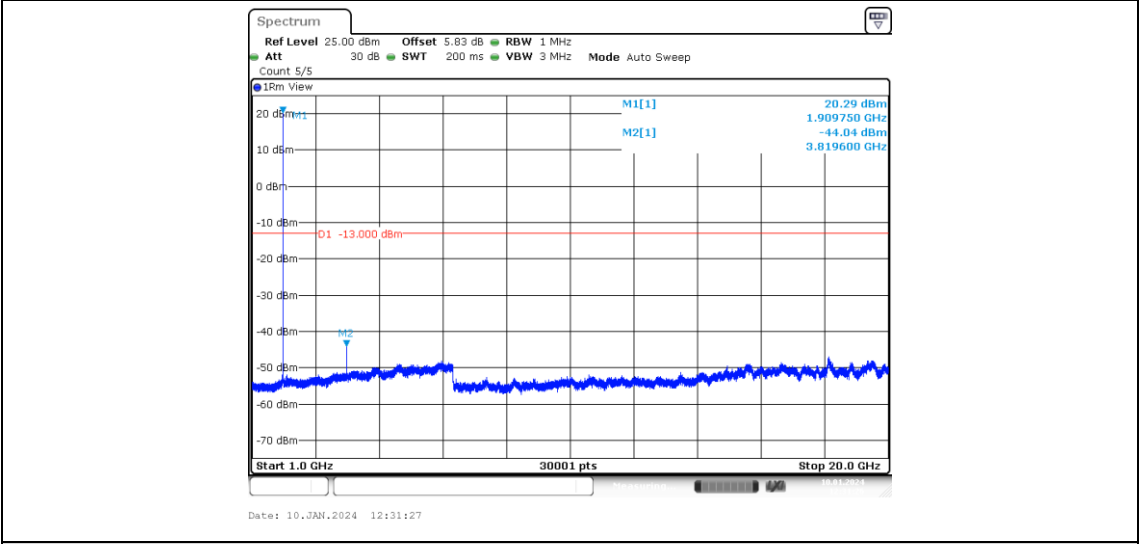
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.009-0.15--69.75--43-PASS



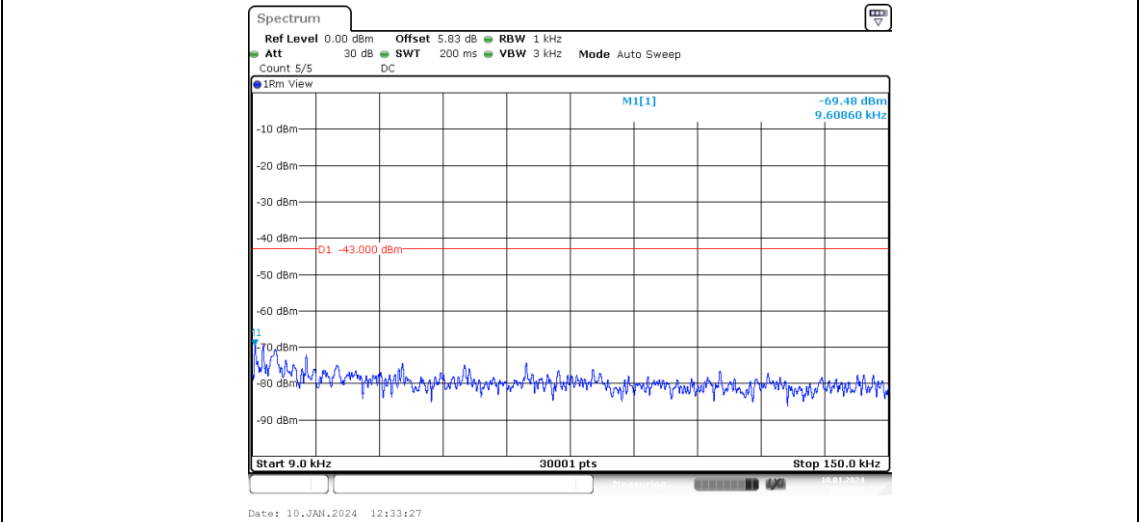
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.15-30--75.11--33-PASS



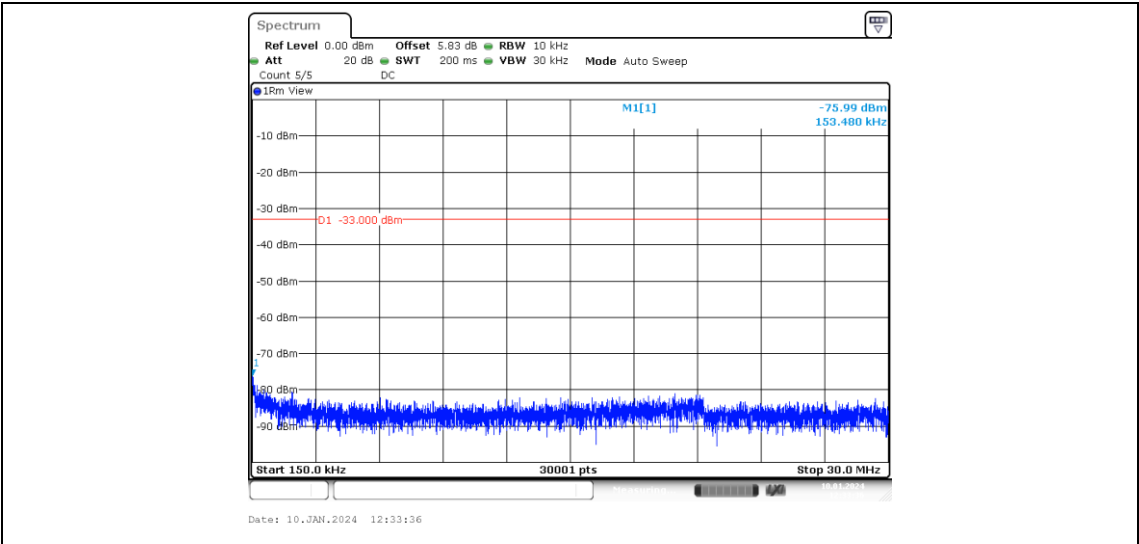
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-30-1000--54.98--13-PASS



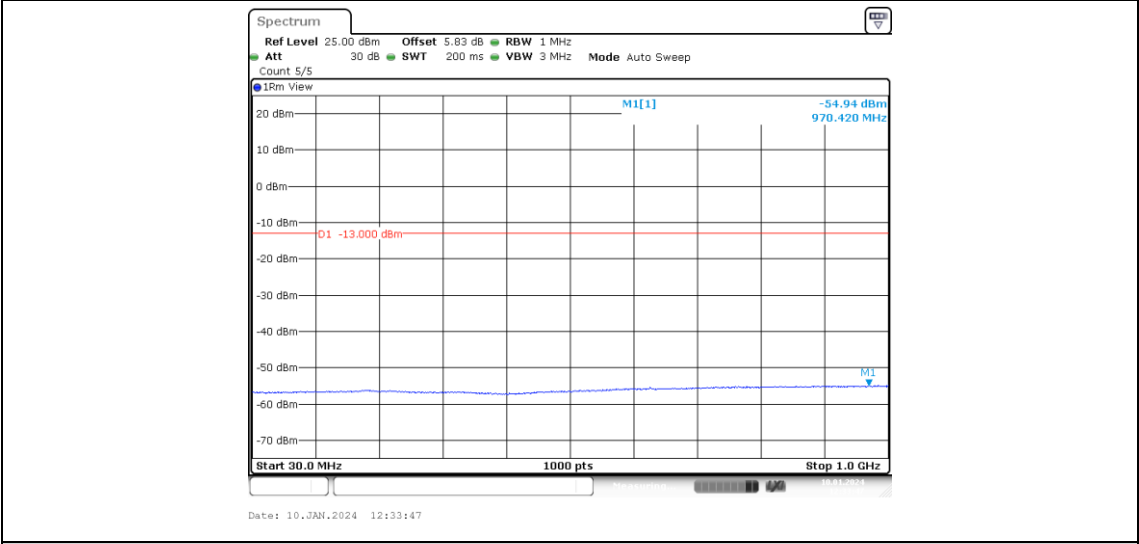
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-1000-20000--44.04--13-PASS



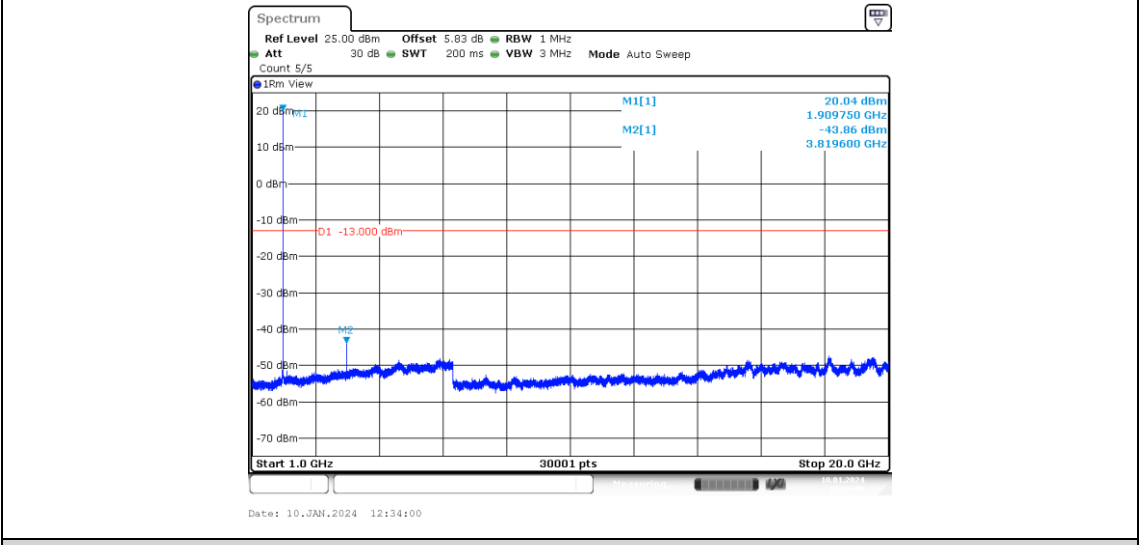
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-0.009-0.15--69.48--43-PASS



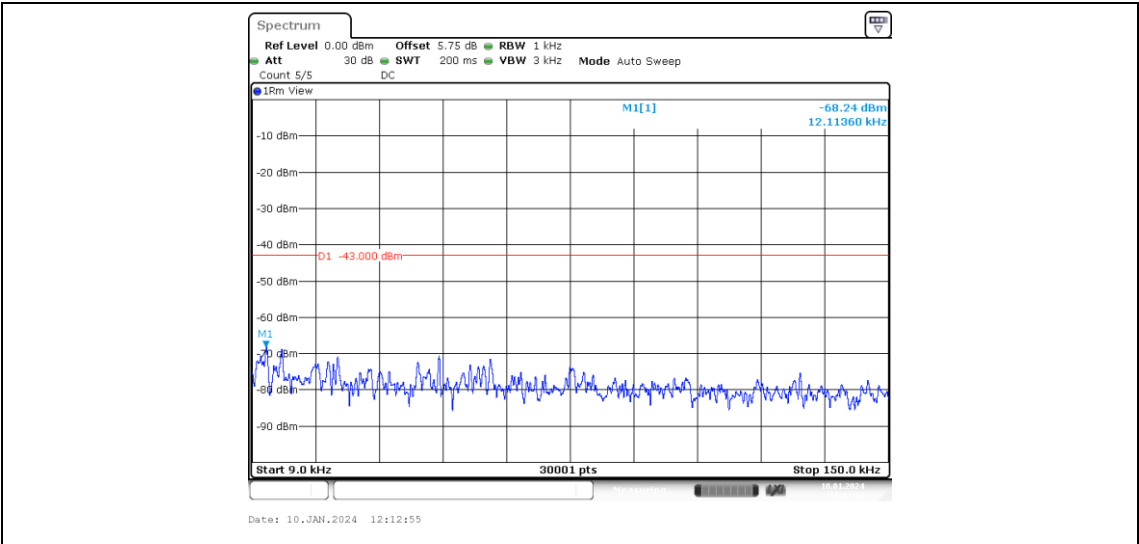
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-0.15-30--75.99--33-PASS



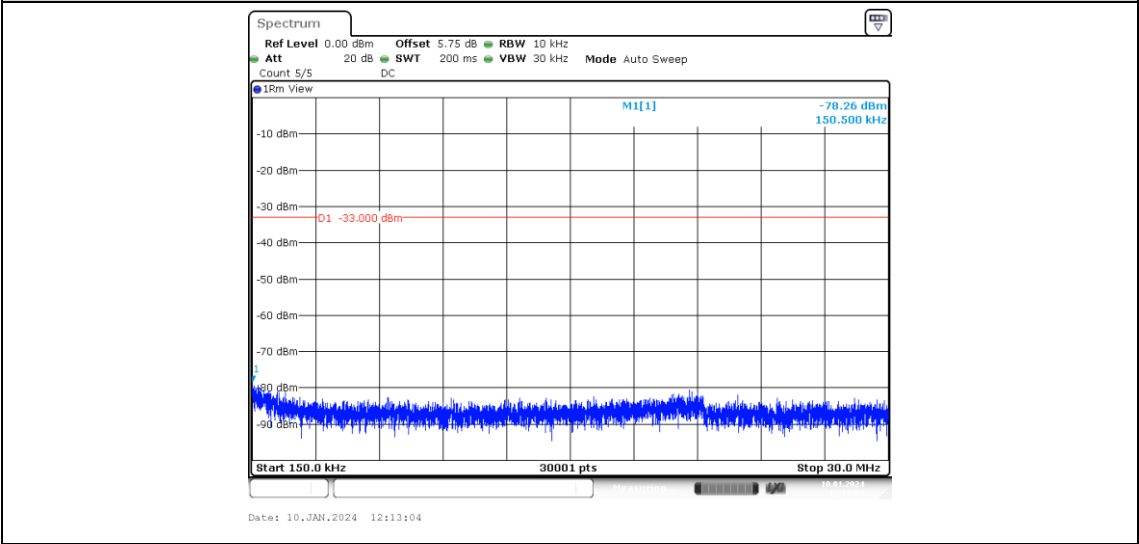
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-30-1000--54.94--13-PASS



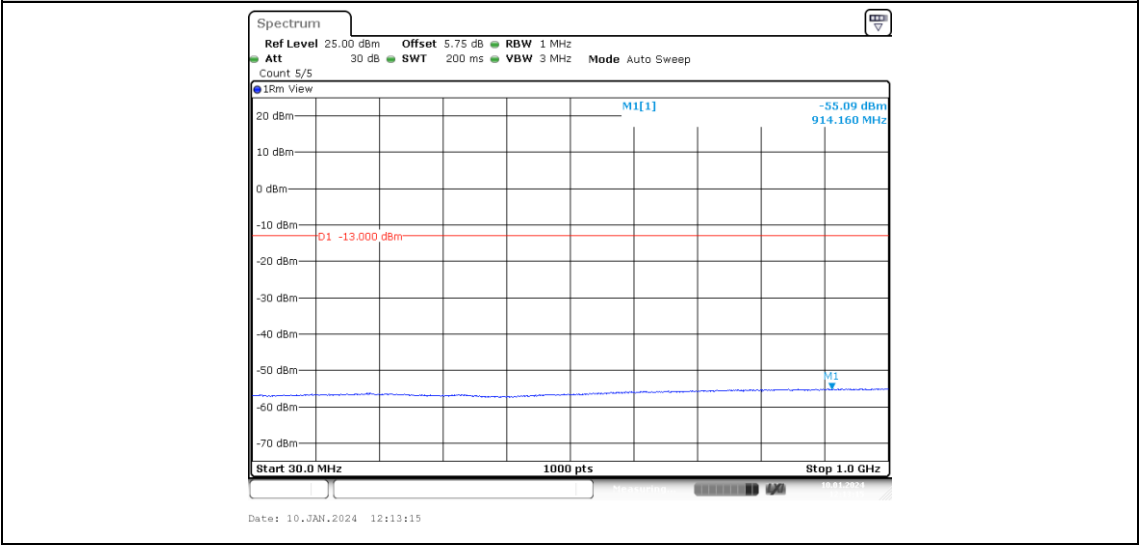
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-1000-20000--43.86--13-PASS



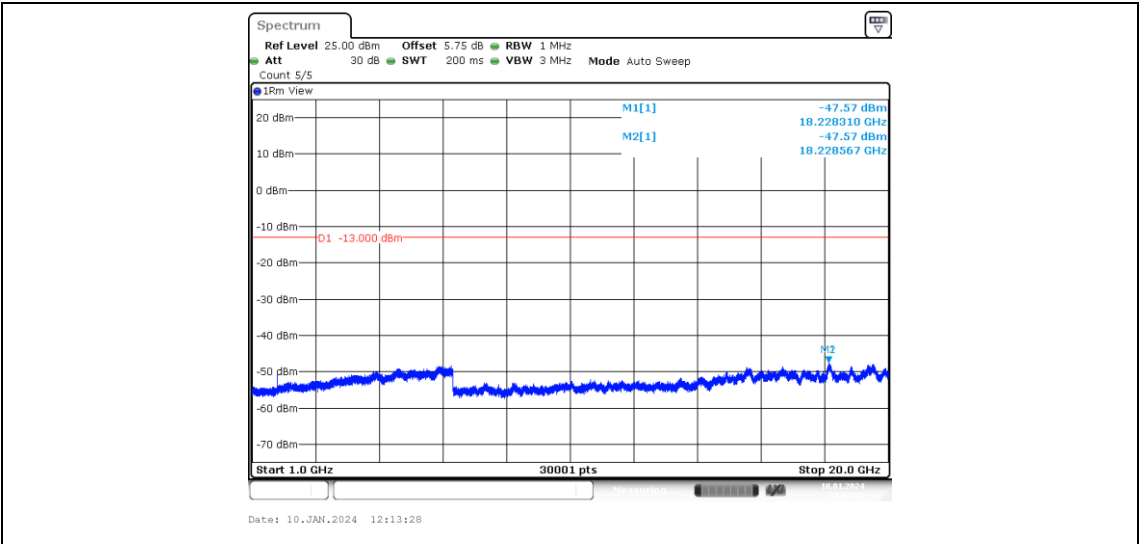
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-0.009-0.15--68.24--43-PASS



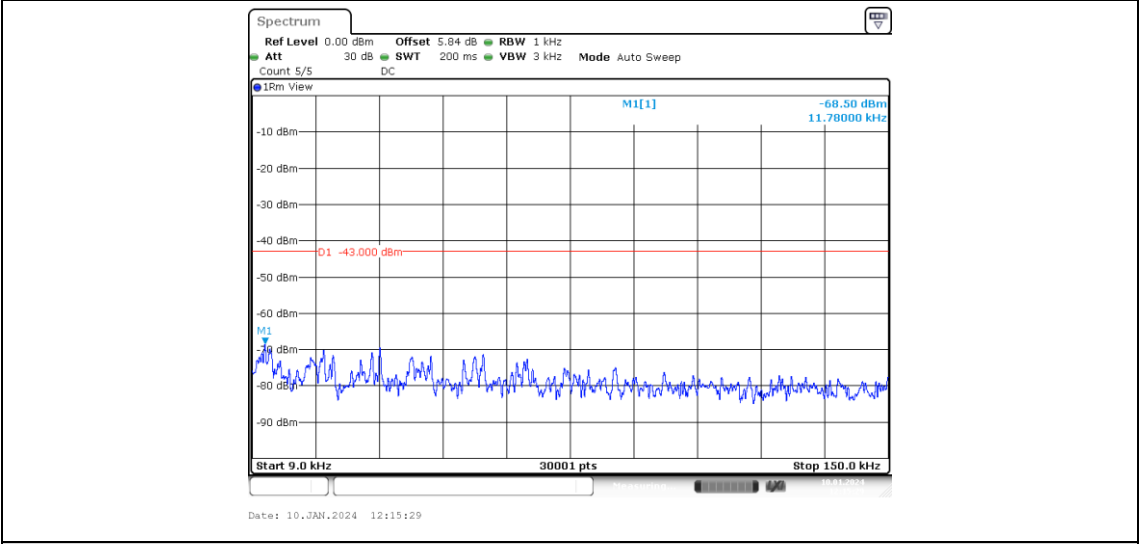
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-0.15-30--78.26--33-PASS



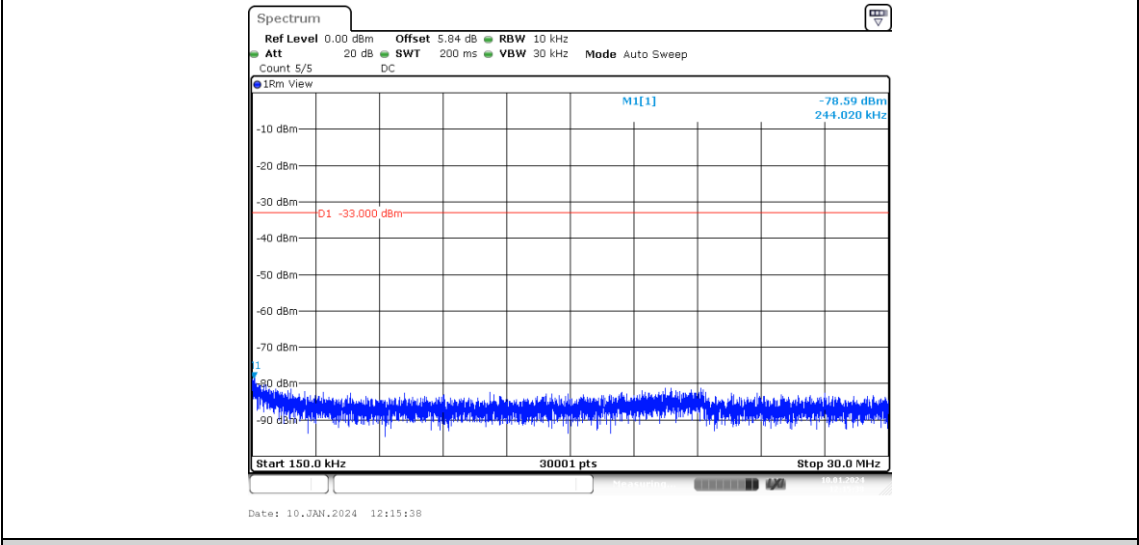
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-30-1000--55.09--13-PASS



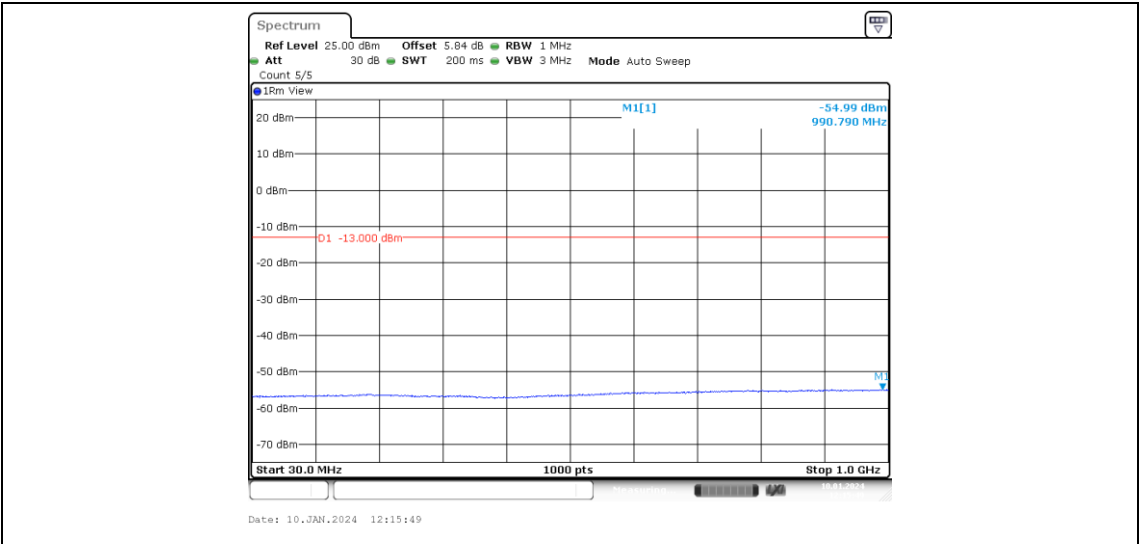
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-1000-20000--47.57--13-PASS



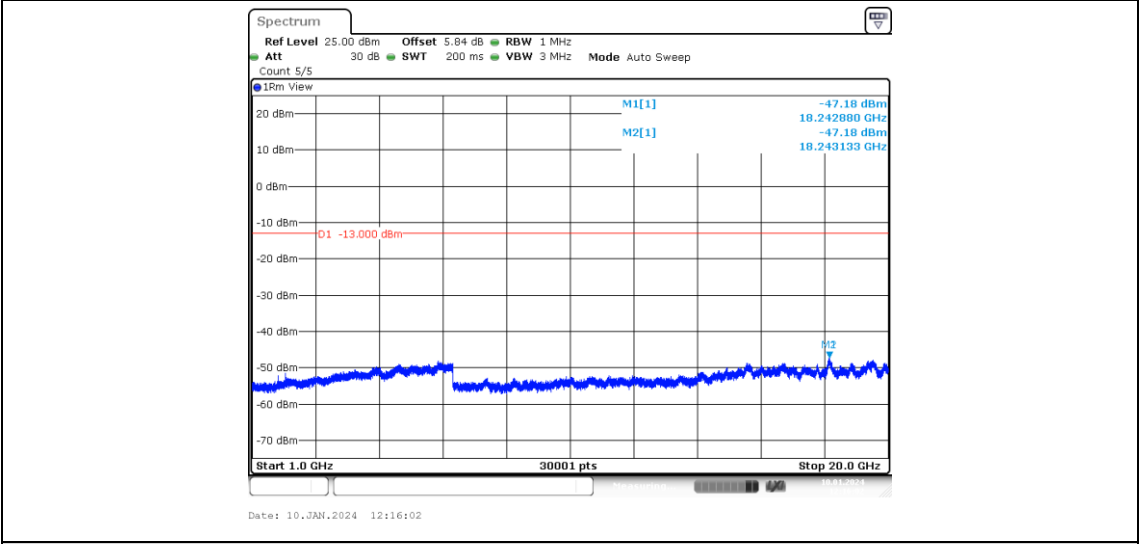
Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.009-0.15--68.5--43-PASS



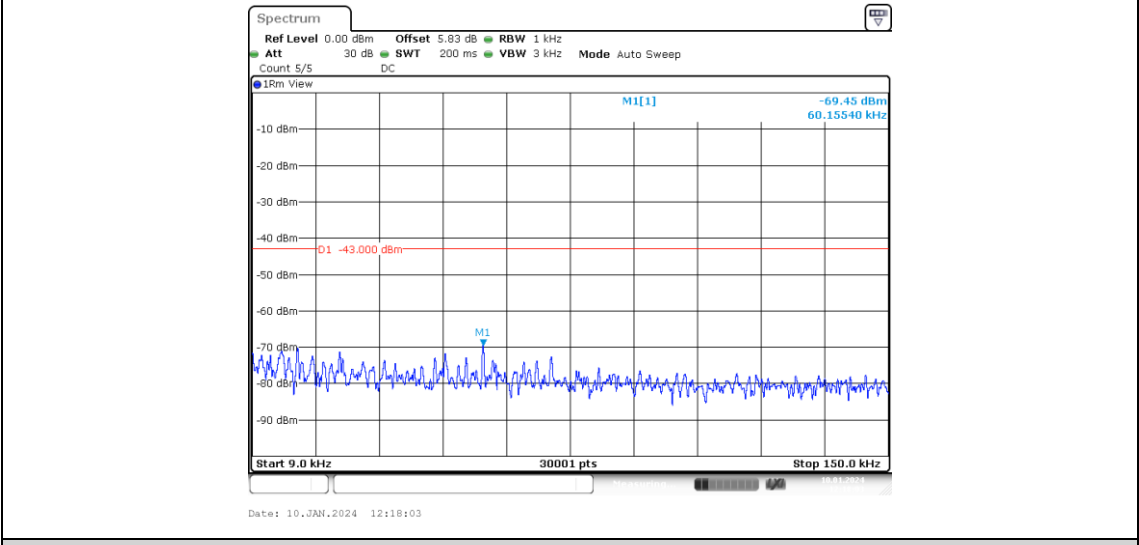
Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.15-30--78.59--33-PASS



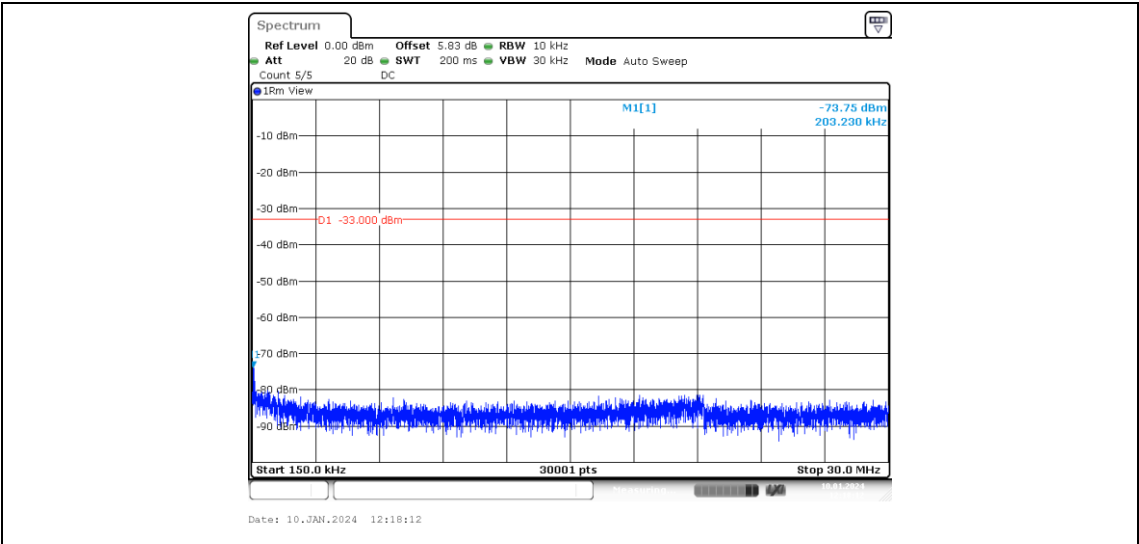
Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-30-1000--54.99--13-PASS



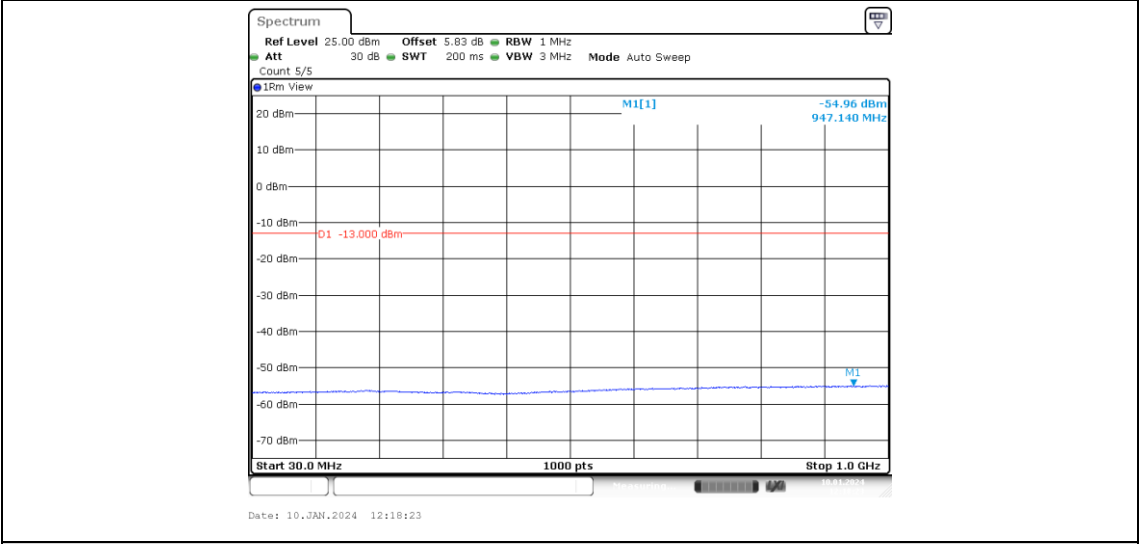
Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-1000-20000--47.18--13-PASS



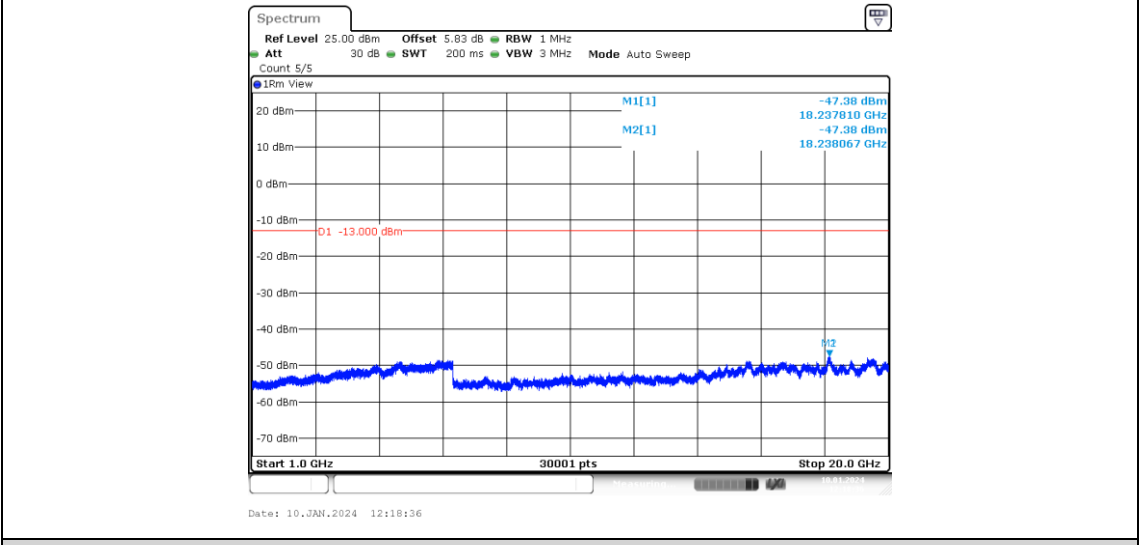
Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-0.009-0.15--69.45--43-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-0.15-30--73.75--33-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-30-1000--54.96--13-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-1000-20000--47.38--13-PASS

Appendix F: Frequency Stability

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 0	VH	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 0	VL	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 0	VN	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 47	VH	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 47	VL	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	3.75 kHz	NaN	QPSK	18876	1 @ 47	VN	NT	-999	-0.532062	±2.5	PASS
Band 2	Stand-Alone	15k Hz	NaN	QPSK	18876	1 @ 0	VH	NT	15.21	0.008101	±2.5	PASS
Band 2	Stand-Alone	15k Hz	NaN	QPSK	18876	1 @ 0	VL	NT	18.38	0.009789	±2.5	PASS
Band 2	Stand-Alone	15k Hz	NaN	QPSK	18876	1 @ 0	VN	NT	17.15	0.009134	±2.5	PASS
Band 2	Stand-Alone	15k Hz	NaN	QPSK	18876	1 @ 11	VH	NT	-22.46	-0.011962	±2.5	PASS
Band 2	Stand-Alone	15k Hz	NaN	QPSK	18876	1 @ 11	VL	NT	-22.36	-0.011909	±2.5	PASS
Ba	Stand-	15k	NaN	QPS	188	1	VN	NT	-22.1	-0.01	±2.	PA

nd 2	Alone	Hz		K	76	@1 1			0	1770	5	SS
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Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	50	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	-20	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	-10	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	0	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	10	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	20	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	30	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	40	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@0	NV	-30	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@47	NV	30	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@47	NV	20	-999	-0.532062	±2.5	PASS
Band2	Stand-Alone	3.75k Hz	NaN	QPSK	18876	1@47	NV	10	-999	-0.532062	±2.5	PASS

Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	0	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	-10	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	40	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	-30	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	50	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	3.75k Hz	NaN	QP SK	18 87 6	1 @ 47	NV	-20	-999	-0.53 2062	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	50	22.2 7	0.011 861	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	-20	15.3 1	0.008 154	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	-10	15.0 6	0.008 021	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	0	15.6 9	0.008 356	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	10	16.2 8	0.008 671	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	20	20.6 0	0.010 971	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	30	18.7 4	0.009 981	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @ 0	NV	40	25.7 9	0.013 736	±2. 5	PA SS
Ba	Stand-	15kH	NaN	QP	18	1	NV	-30	15.7	0.008	±2.	PA

nd2	Alone	z		SK	87 6	@ 0			1	367	5	SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	40	27.0 8	0.014 423	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	30	23.0 7	0.012 287	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	20	28.5 4	0.015 200	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	10	20.6 9	0.011 019	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	0	19.1 7	0.010 210	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	-10	19.2 3	0.010 242	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	-30	17.2 5	0.009 187	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	50	-20.7 9	-0.01 1073	±2. 5	PA SS
Ba nd2	Stand- Alone	15kH z	NaN	QP SK	18 87 6	1 @1 1	NV	-20	20.4 1	0.010 870	±2. 5	PA SS