

## **Appendix for Band 5**

Product Name: Smart Light Controller

Model No: SLC-N-500-NB

## Appendix A: Average Power Output Data

### Test Result

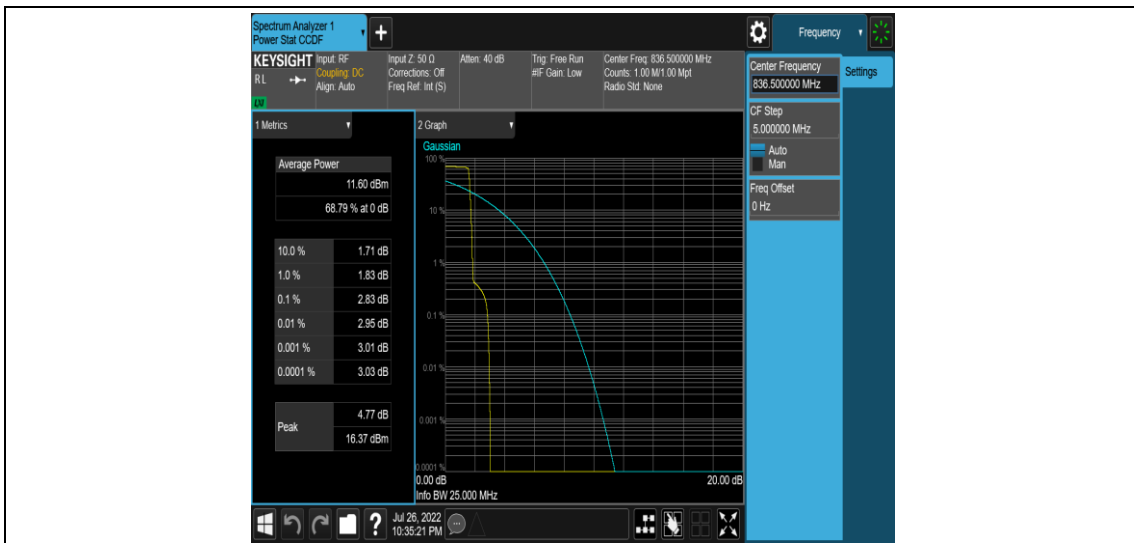
Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@0	20.84	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20401	1@47	20.80	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@0	20.65	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@47	20.62	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@0	20.50	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20649	1@47	20.50	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@0	20.79	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20401	1@47	20.83	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	20.66	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	20.55	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@0	20.52	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20649	1@47	20.50	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@0	21.11	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	1@11	21.10	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20401	3@3	20.99	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	21.13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	21.00	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	3@3	20.91	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@0	21.18	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	1@11	21.10	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20649	3@3	20.81	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@0	21.20	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	1@11	21.18	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20401	3@3	20.99	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	21.15	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	21.05	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	3@3	20.93	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@0	21.13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	1@11	21.04	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20649	3@3	20.80	PASS

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

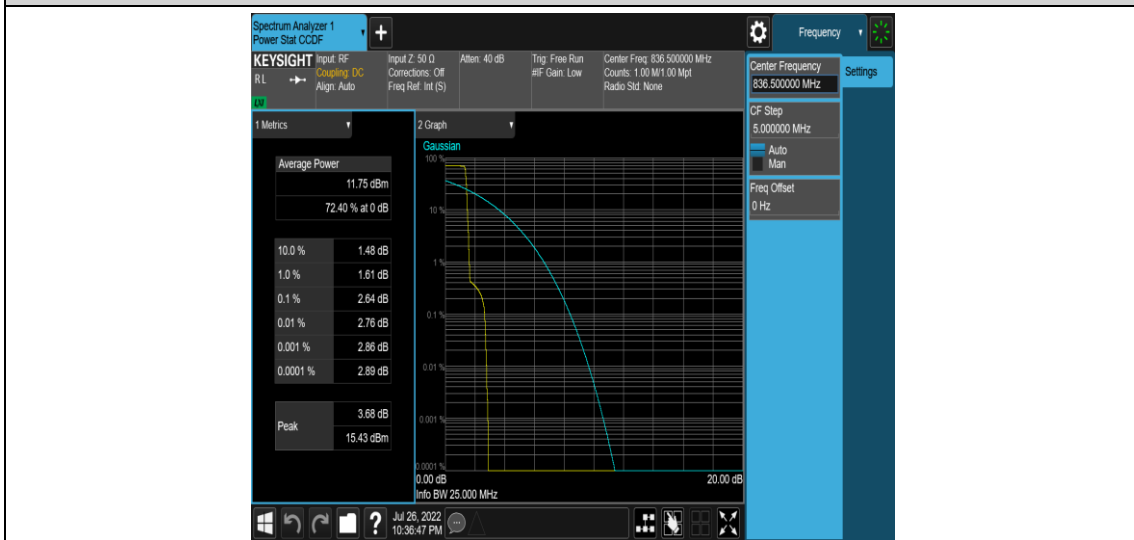
### Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@0	2.83	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	BPSK	20525	1@47	2.64	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@0	3.42	<=13	PASS
Band5	Stand-Alone	3.75kHz	NaN	QPSK	20525	1@47	2.45	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@0	3.76	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	1@11	3.35	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	BPSK	20525	3@3	9.4	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@0	4.7	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	1@11	5.6	<=13	PASS
Band5	Stand-Alone	15kHz	NaN	QPSK	20525	3@3	9.75	<=13	PASS

### Test Graphs



Band5-Stand-Alone-NaN-BPSK-20525-1 @0-3.75kHz-2.83-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1 @47-3.75kHz-2.64-<=13-PASS



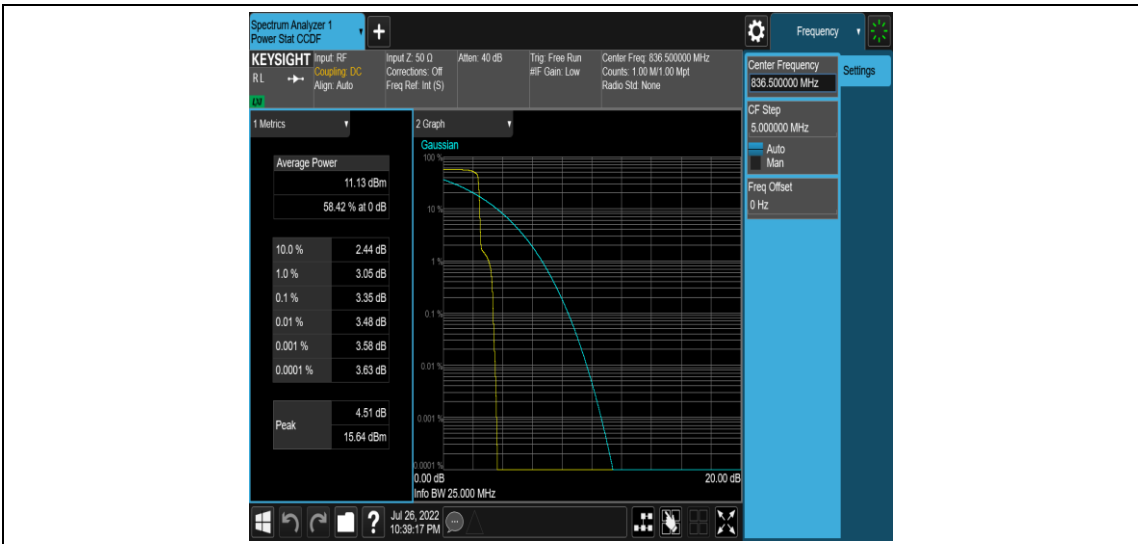
Band5-Stand-Alone-NaN-QPSK-20525-1 @ 0-3.75kHz-3.42-<=13-PASS



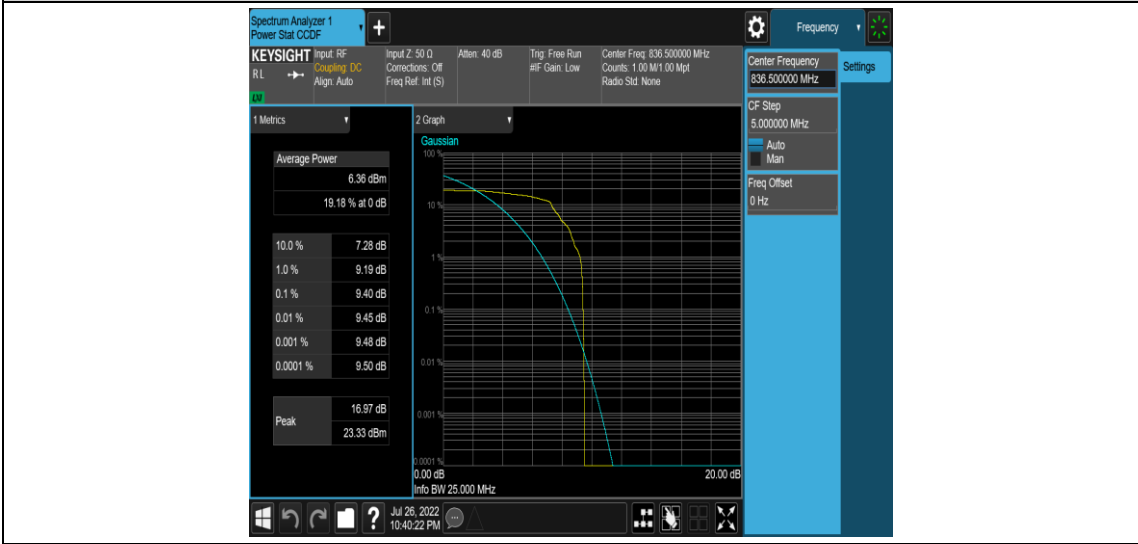
Band5-Stand-Alone-NaN-QPSK-20525-1 @ 47-3.75kHz-2.45-<=13-PASS



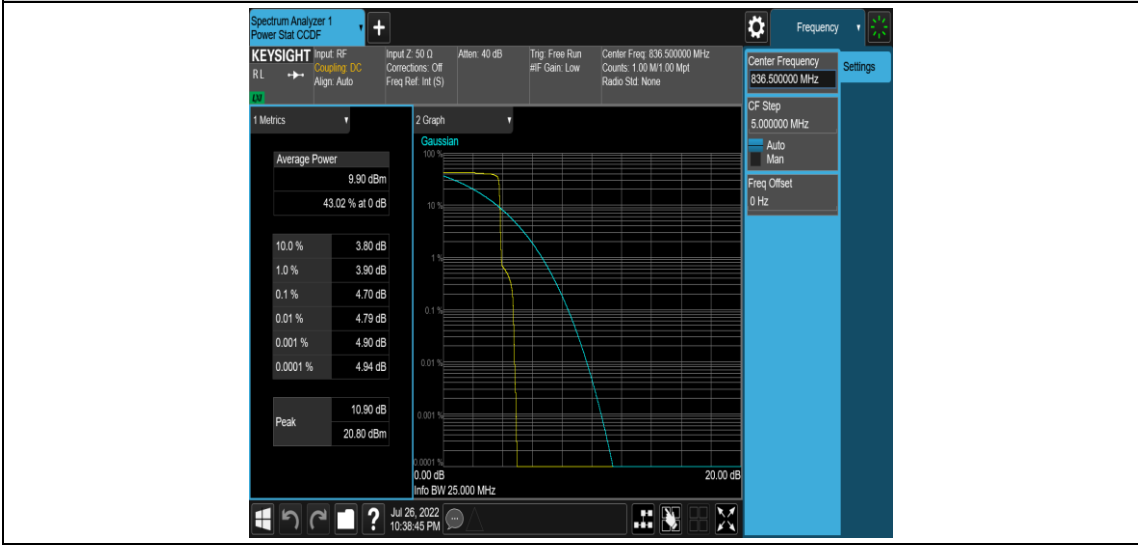
Band5-Stand-Alone-NaN-BPSK-20525-1 @ 0-15kHz-3.76-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1 @ 11-15kHz-3.35-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-3 @ 3-15kHz-9.4-<=13-PASS



Band5-Stand-Alone-NaN-QPSK-20525-1 @ 0-15kHz-4.7-<=13-PASS



Band5-Stand-Alone-Na-N-QPSK-20525-1 @ 11-15kHz-5.6-<=13-PASS



Band5-Stand-Alone-Na-N-QPSK-20525-3 @ 3-15kHz-9.75-<=13-PASS

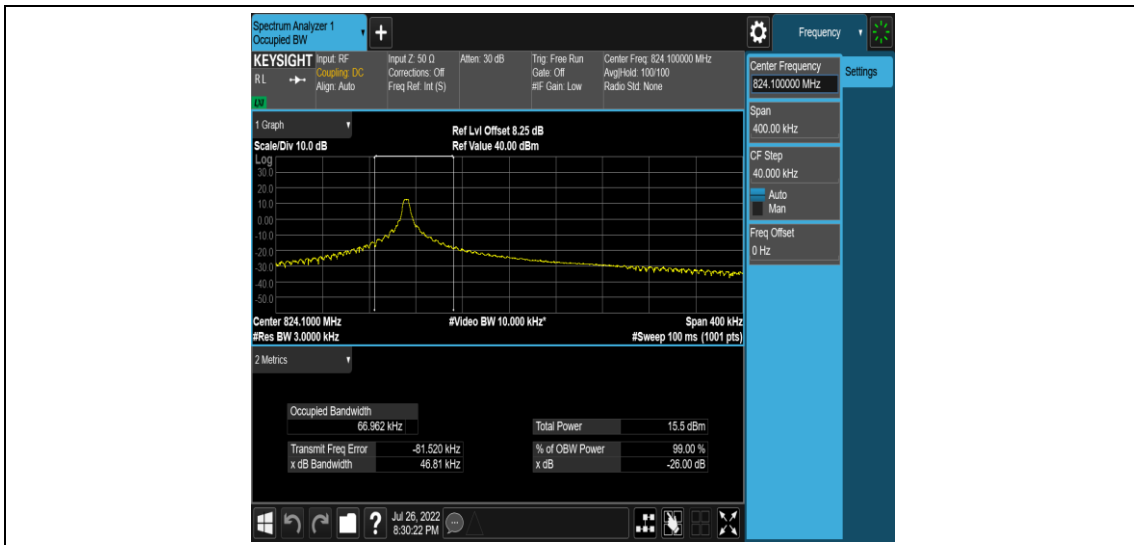
## Appendix C: Emission Bandwidth for NB1

### Test Result

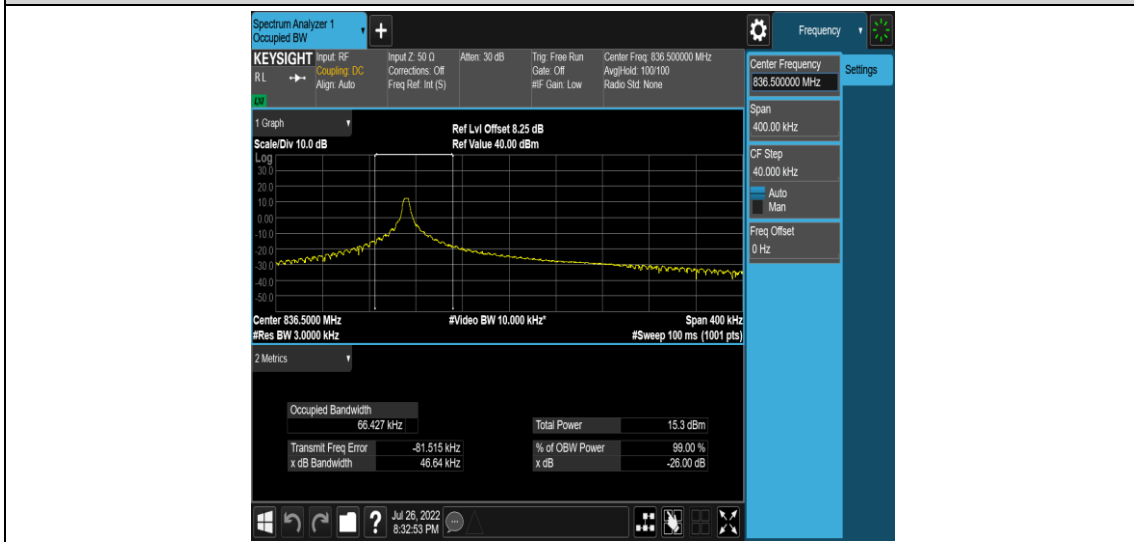
Band	SCS	BW	Modu	Channel	Tones	Result (MHz)	Verdict
Band5	3.75kHz	NaN	BPSK	20401	1@0	0.0468	PASS
Band5	3.75kHz	NaN	BPSK	20525	1@0	0.0466	PASS
Band5	3.75kHz	NaN	BPSK	20649	1@0	0.0463	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	0.0485	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	0.0480	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	0.0477	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	0.1058	PASS
Band5	15kHz	NaN	BPSK	20401	12@0	0.2484	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	0.1053	PASS
Band5	15kHz	NaN	BPSK	20525	12@0	0.2610	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	0.1051	PASS
Band5	15kHz	NaN	BPSK	20649	12@0	0.2610	PASS
Band5	15kHz	NaN	QPSK	20401	1@0	0.1308	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	0.2465	PASS
Band5	15kHz	NaN	QPSK	20525	1@0	0.1162	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	0.2406	PASS
Band5	15kHz	NaN	QPSK	20649	1@0	0.1310	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	0.2612	PASS



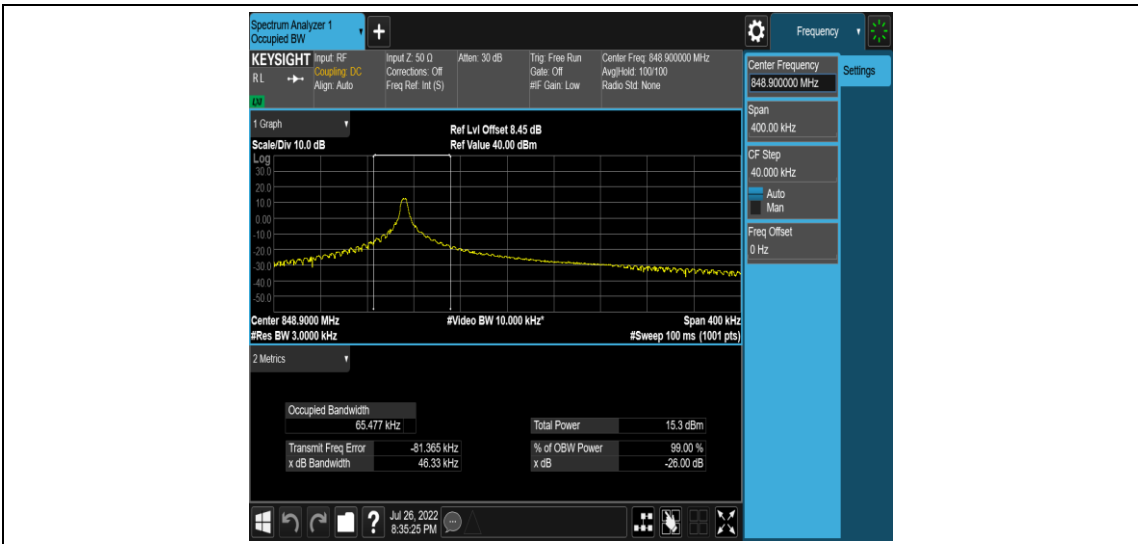
### Test Graphs



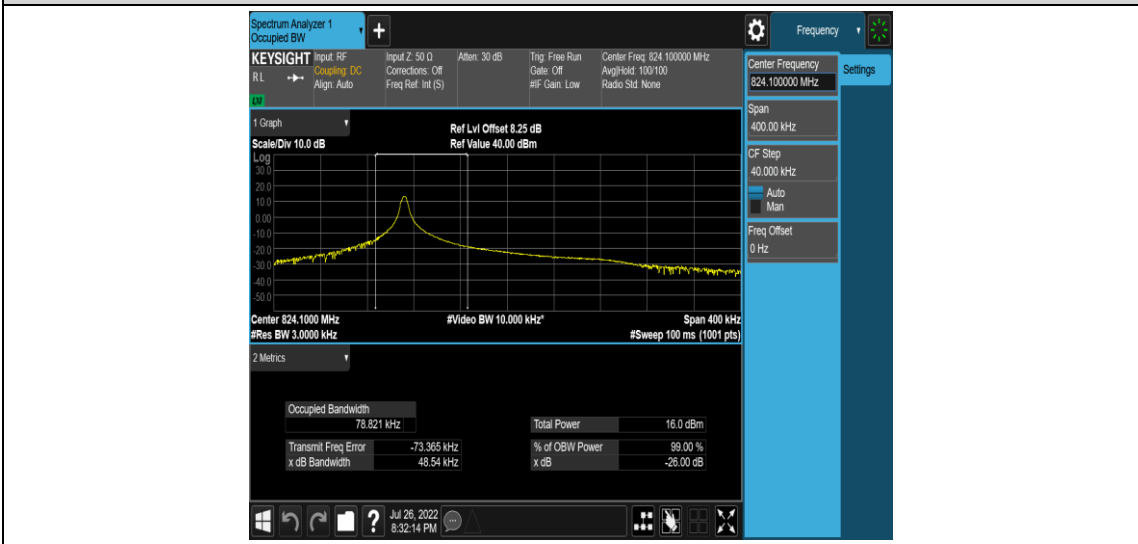
Band5-Stand-Alone-NaN-BPSK-20401-1 @0-3.75kHz-0.0468-PASS



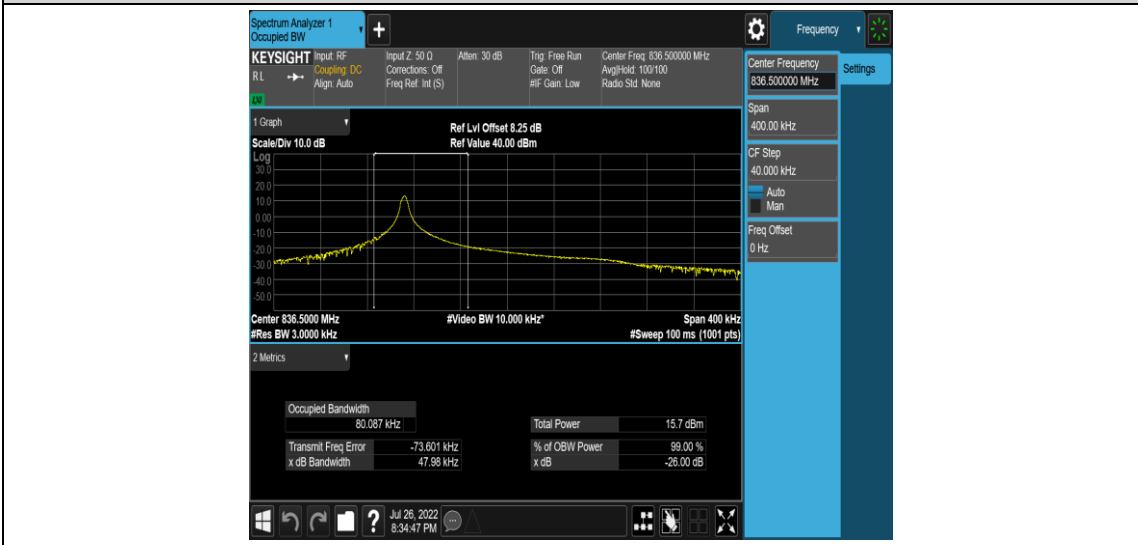
Band5-Stand-Alone-NaN-BPSK-20525-1 @0-3.75kHz-0.0466-PASS



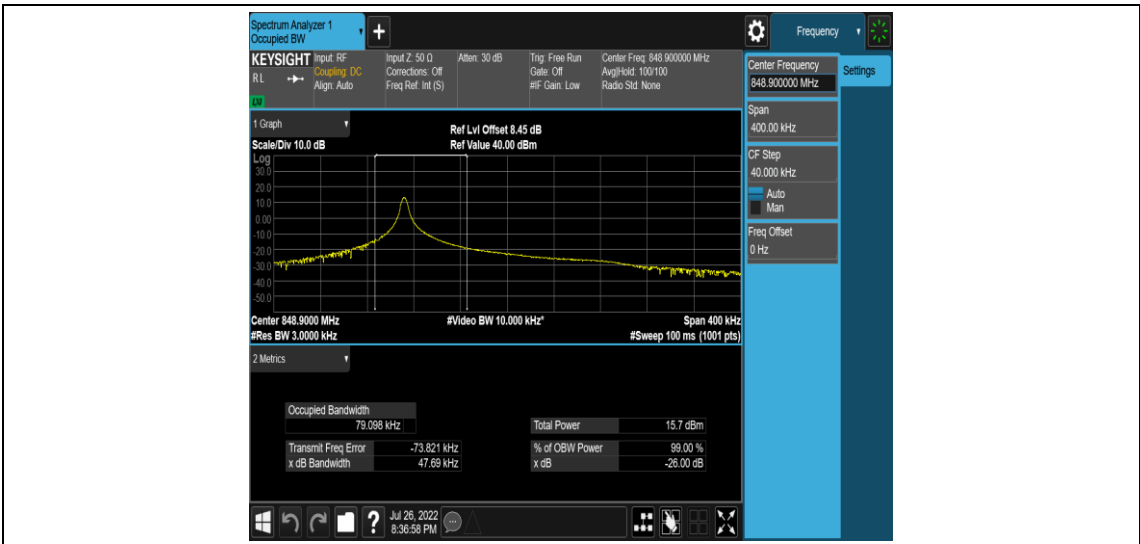
Band5-Stand-Alone-NaN-BPSK-20649-1 @ 0-3.75kHz-0.0463-PASS



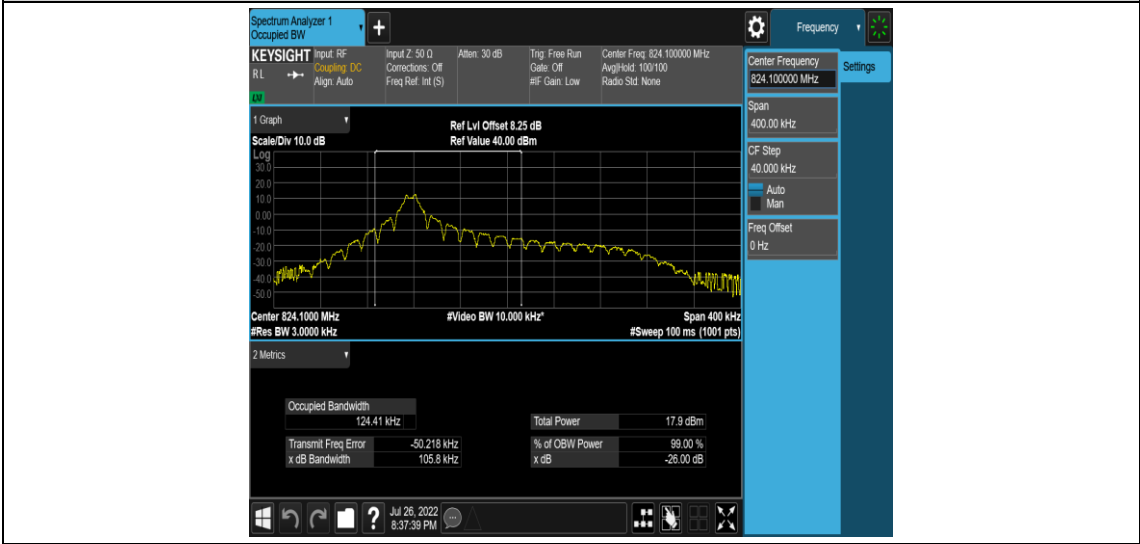
Band5-Stand-Alone-NaN-QPSK-20401-1 @ 0-3.75kHz-0.0485-PASS



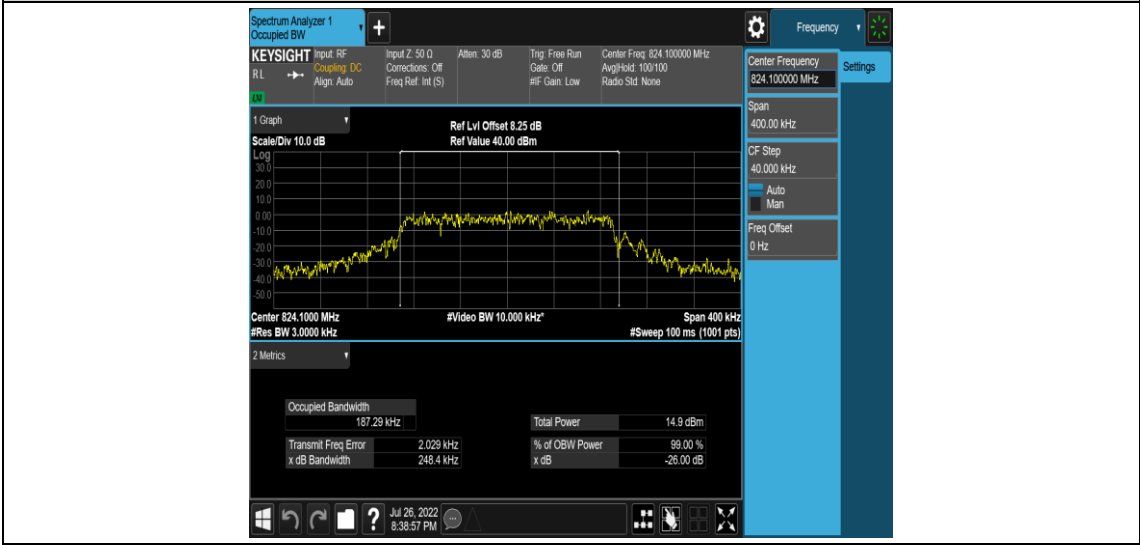
Band5-Stand-Alone-NaN-QPSK-20525-1 @ 0-3.75kHz-0.0480-PASS



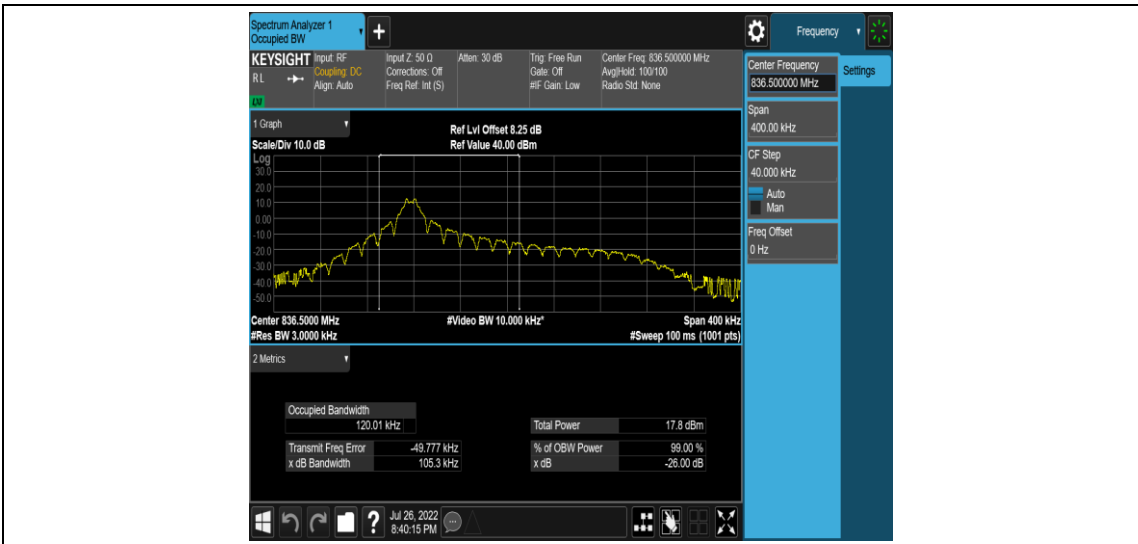
Band5-Stand-Alone-NaN-QPSK-20649-1 @ 0-3.75kHz-0.0477-PASS



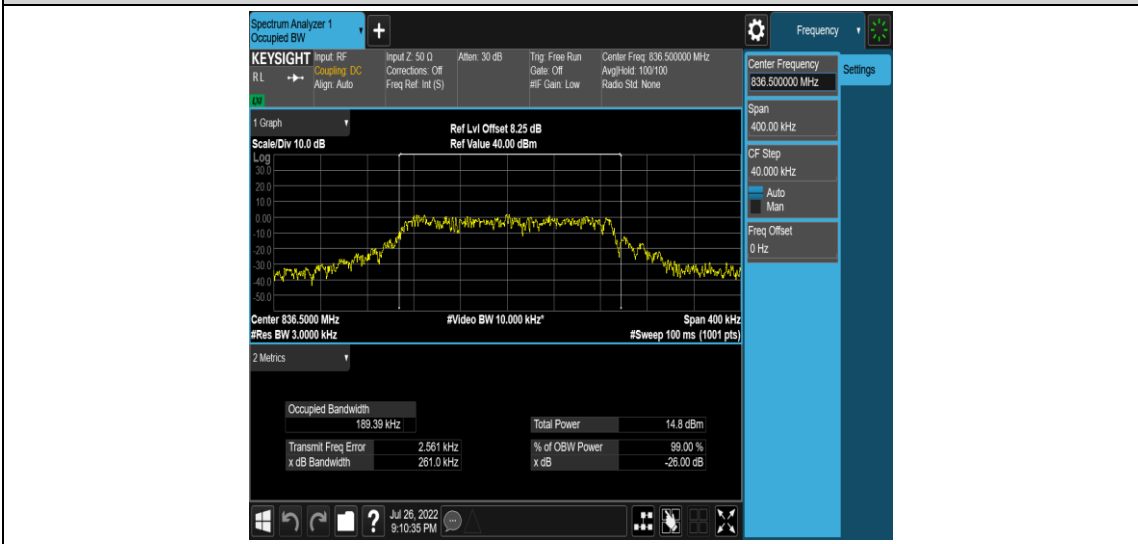
Band5-Stand-Alone-NaN-BPSK-20401-1 @ 0-15kHz-0.1058-PASS



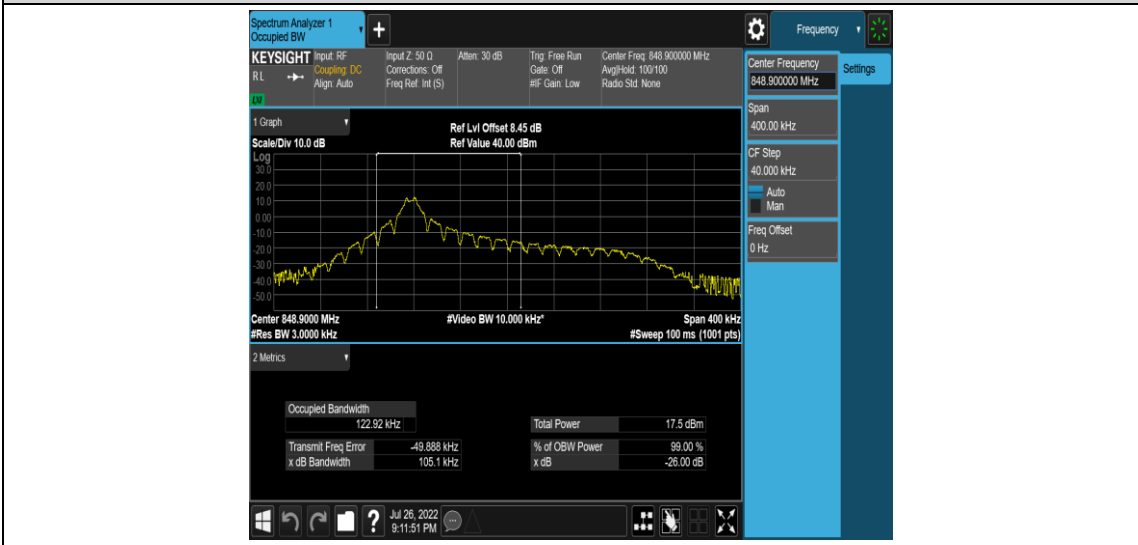
Band5-Stand-Alone-NaN-BPSK-20401-12 @ 0-15kHz-0.2484-PASS



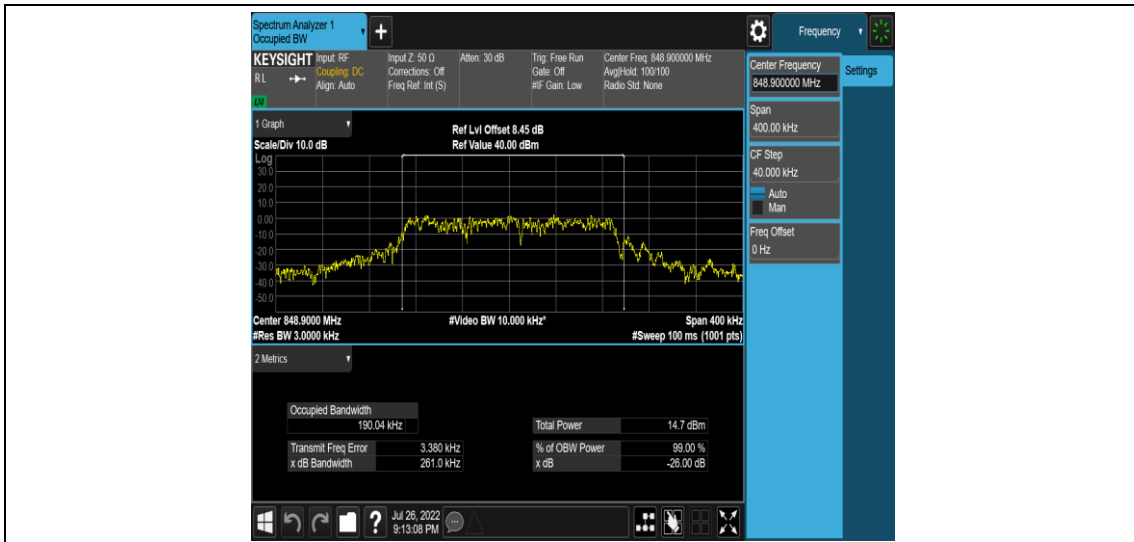
Band5-Stand-Alone-NaN-BPSK-20525-1 @ 0-15kHz-0.1053-PASS



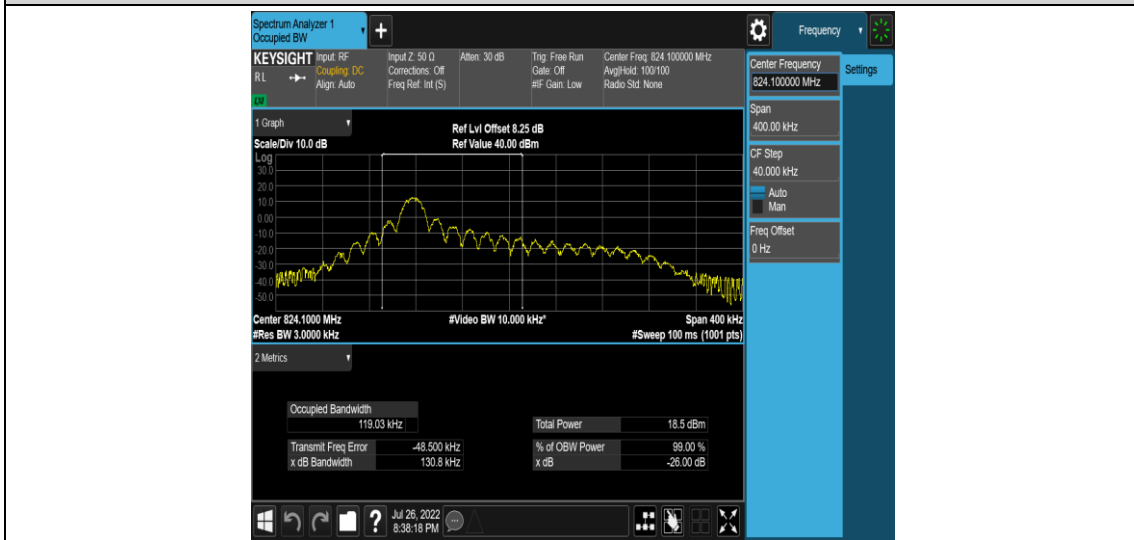
Band5-Stand-Alone-NaN-BPSK-20525-12 @ 0-15kHz-0.2610-PASS



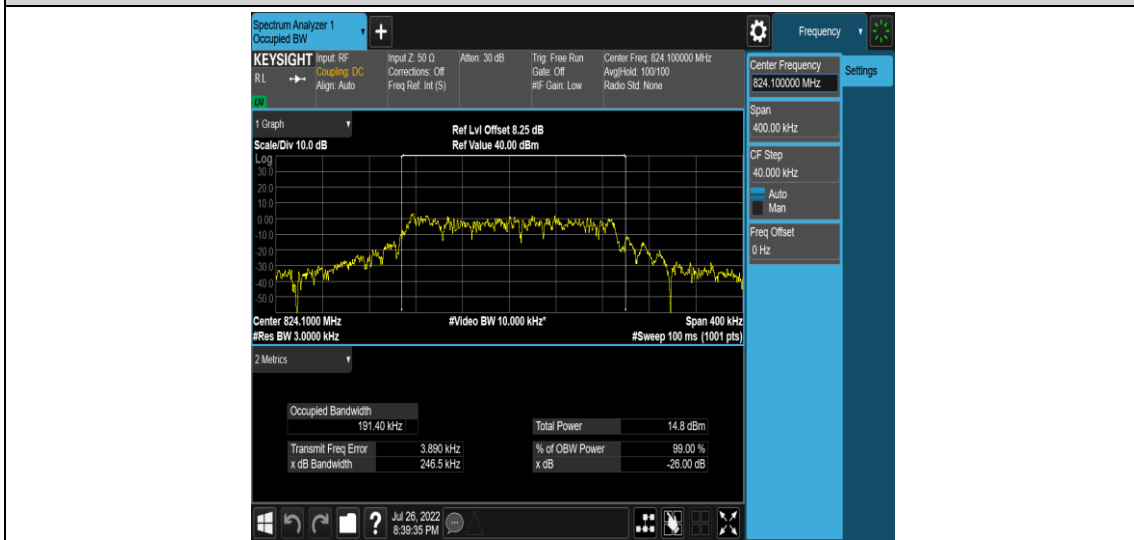
Band5-Stand-Alone-NaN-BPSK-20649-1 @ 0-15kHz-0.1051-PASS



Band5-Stand-Alone-NaN-BPSK-20649-12@0-15kHz-0.2610-PASS



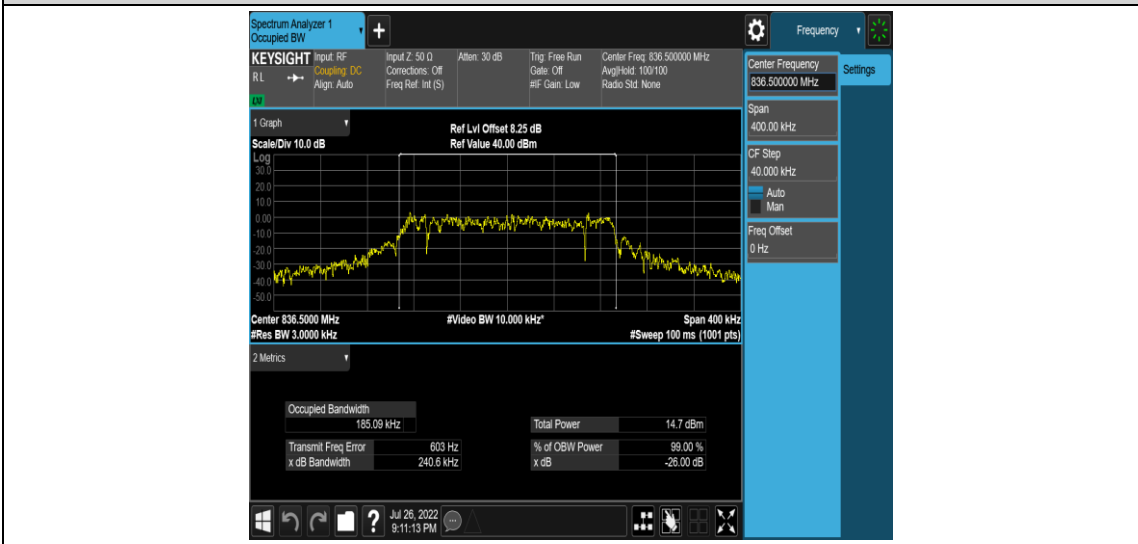
Band5-Stand-Alone-NaN-QPSK-20401-1@0-15kHz-0.1308-PASS



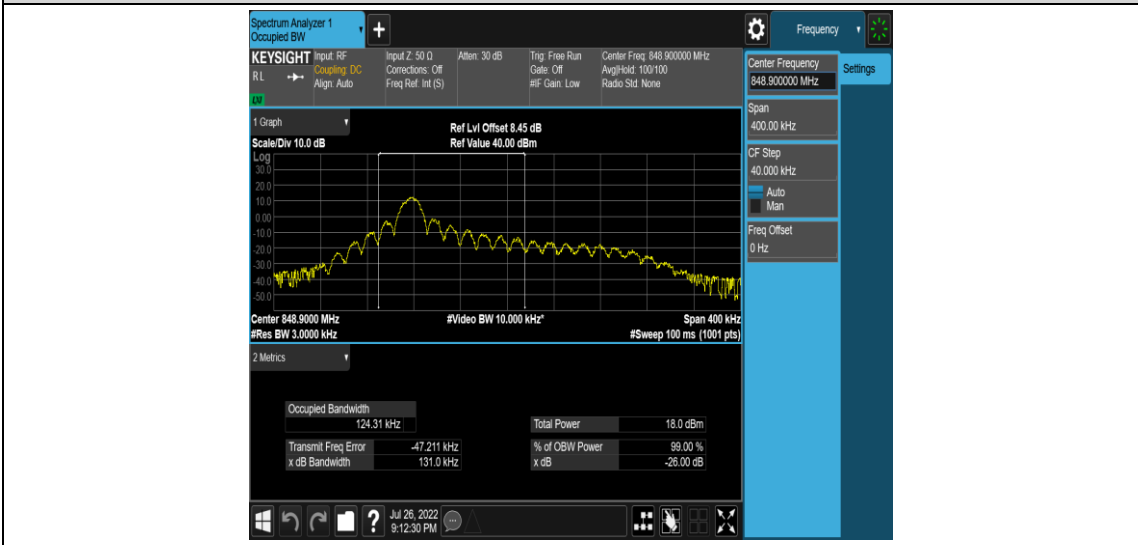
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-0.2465-PASS



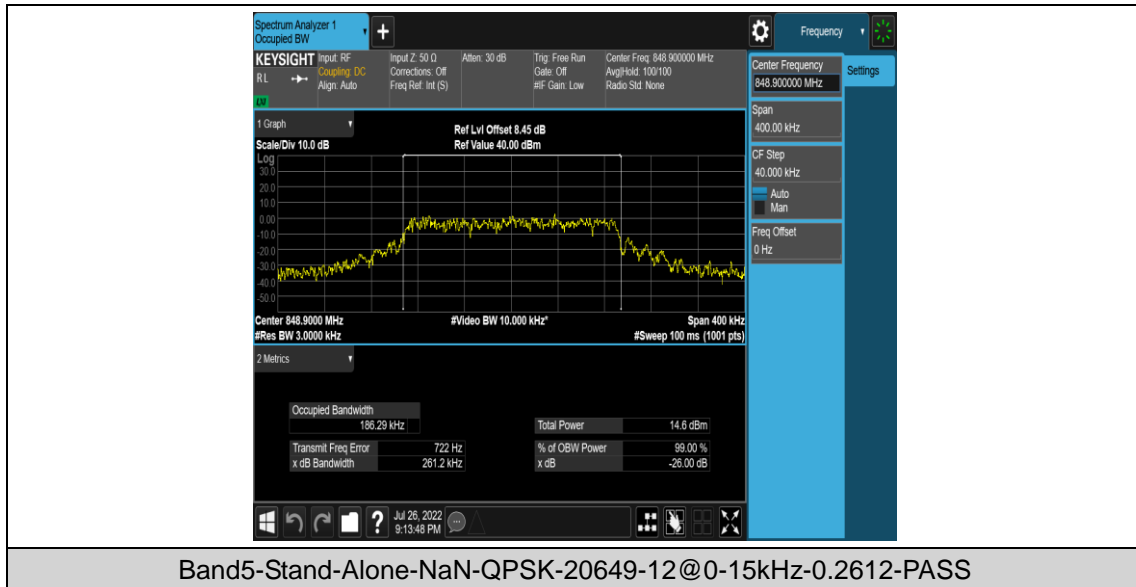
Band5-Stand-Alone-NaN-QPSK-20525-1@0-15kHz-0.1162-PASS



Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.2406-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-15kHz-0.1310-PASS



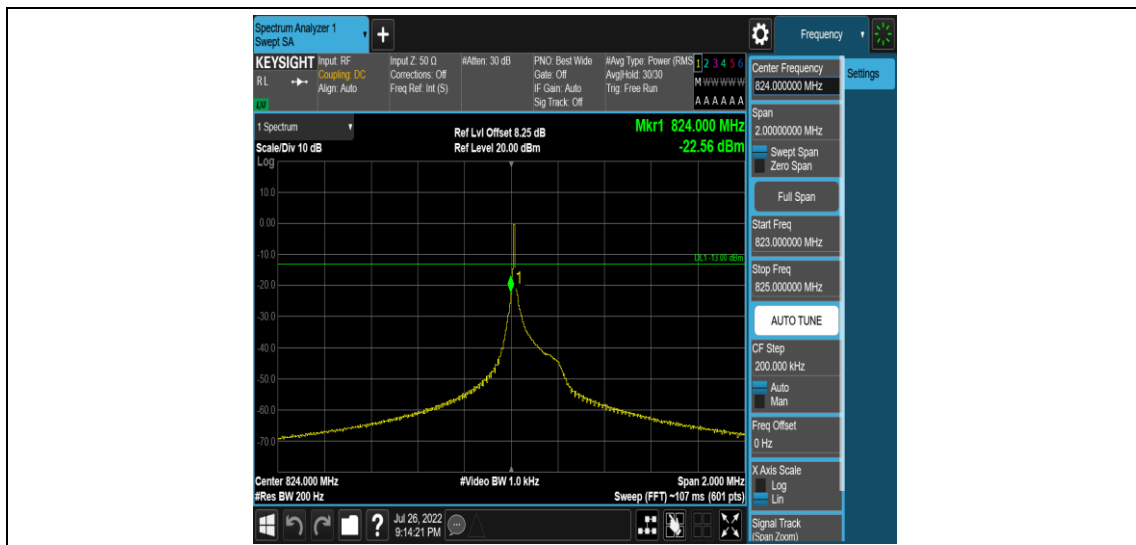
## Appendix D: Band Edge for NB1

### Test Result

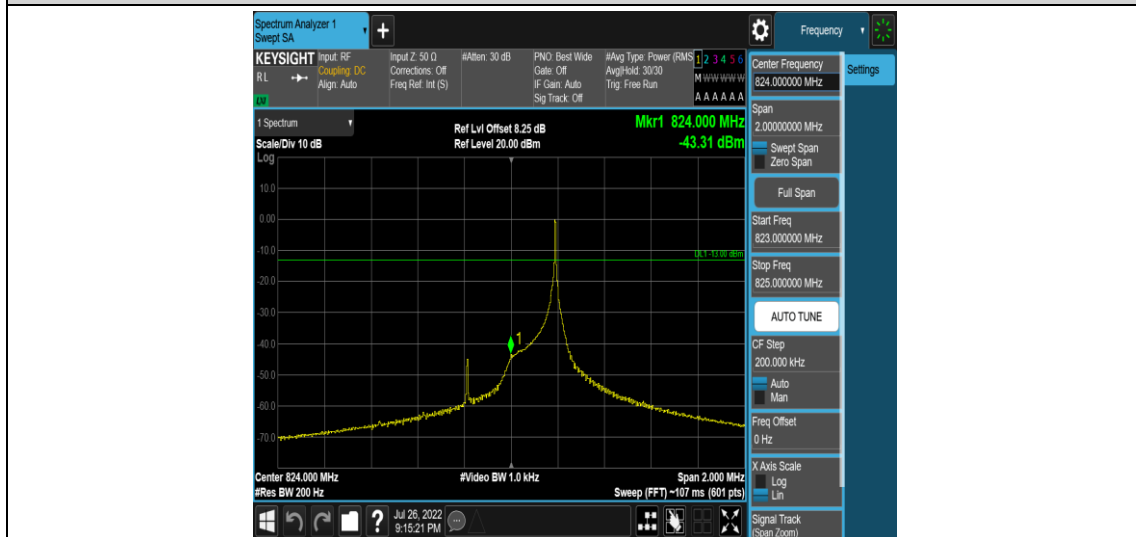
Band	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band5	3.75kHz	NaN	BPSK	20401	1@0	-22.56	PASS
Band5	3.75kHz	NaN	BPSK	20401	1@47	-43.31	PASS
Band5	3.75kHz	NaN	BPSK	20649	1@0	-44.93	PASS
Band5	3.75kHz	NaN	BPSK	20649	1@47	-22.71	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	-22.16	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	-43.77	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	-44.42	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	-22.59	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	-18.03	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	-37.02	PASS
Band5	15kHz	NaN	BPSK	20401	12@0	-35.00	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	-37.60	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	-18.40	PASS
Band5	15kHz	NaN	BPSK	20649	12@0	-31.92	PASS
Band5	15kHz	NaN	QPSK	20401	1@0	-19.64	PASS
Band5	15kHz	NaN	QPSK	20401	1@11	-37.90	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	-34.84	PASS
Band5	15kHz	NaN	QPSK	20649	1@0	-38.13	PASS
Band5	15kHz	NaN	QPSK	20649	1@11	-18.99	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	-31.80	PASS



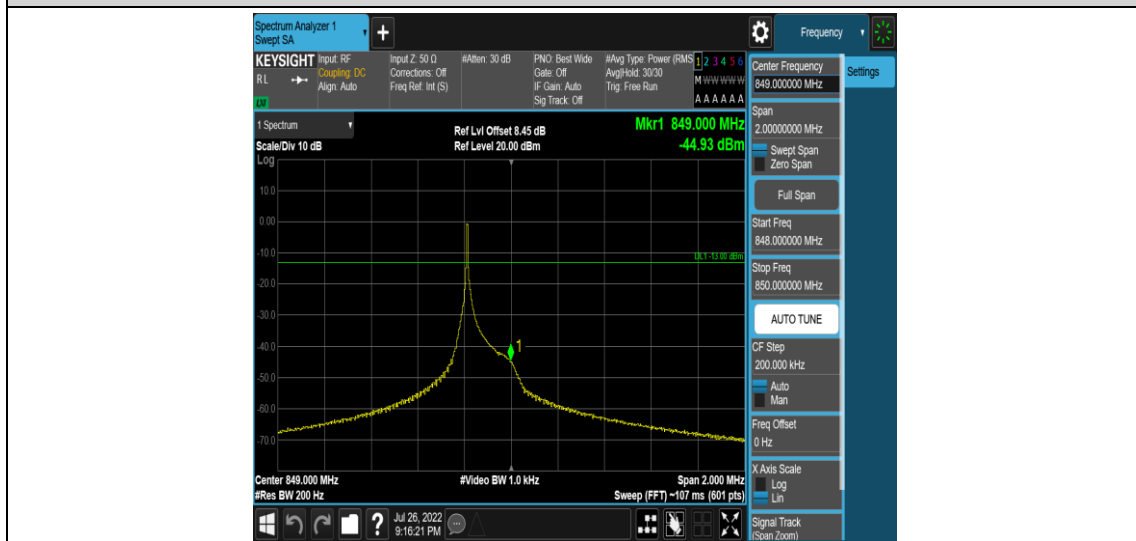
### Test Graphs



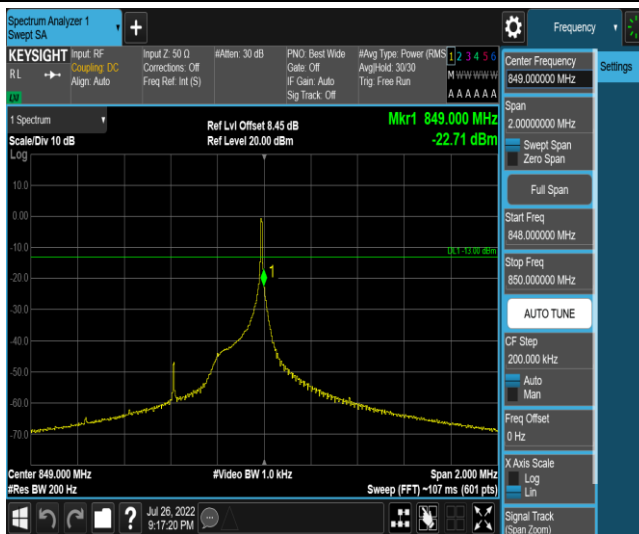
Band5-Stand-Alone-NaN-BPSK-20401-1 @0-3.75kHz--22.56-PASS



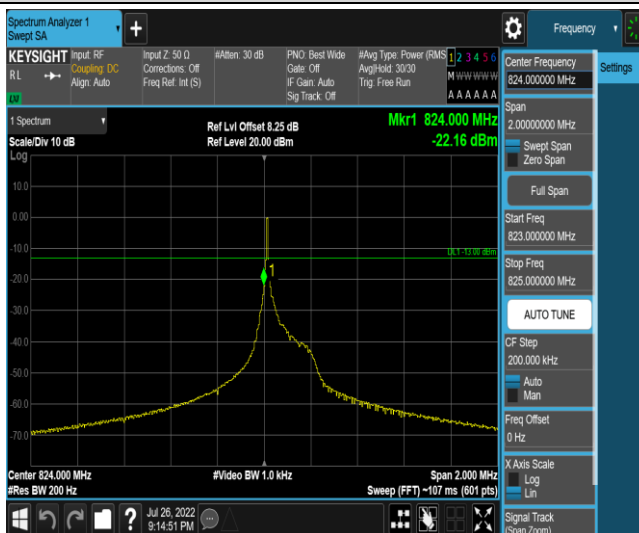
Band5-Stand-Alone-NaN-BPSK-20401-1 @47-3.75kHz--43.31-PASS



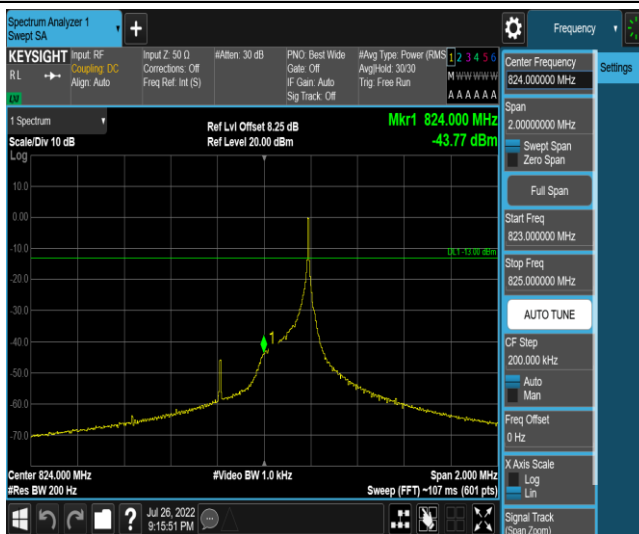
Band5-Stand-Alone-NaN-BPSK-20649-1 @0-3.75kHz--44.93-PASS



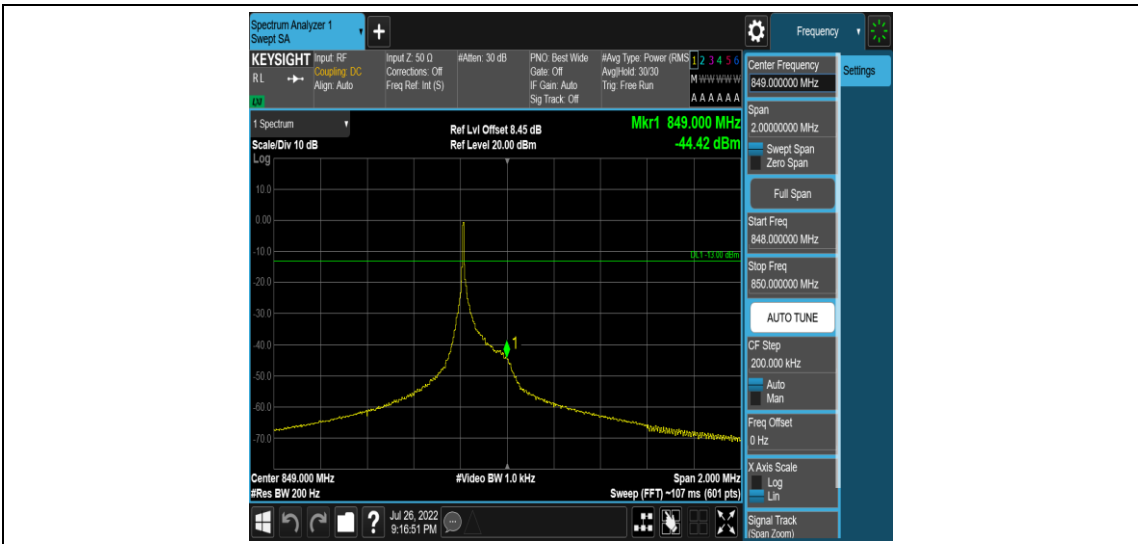
Band5-Stand-Alone-NaN-BPSK-20649-1 @47-3.75kHz--22.71-PASS



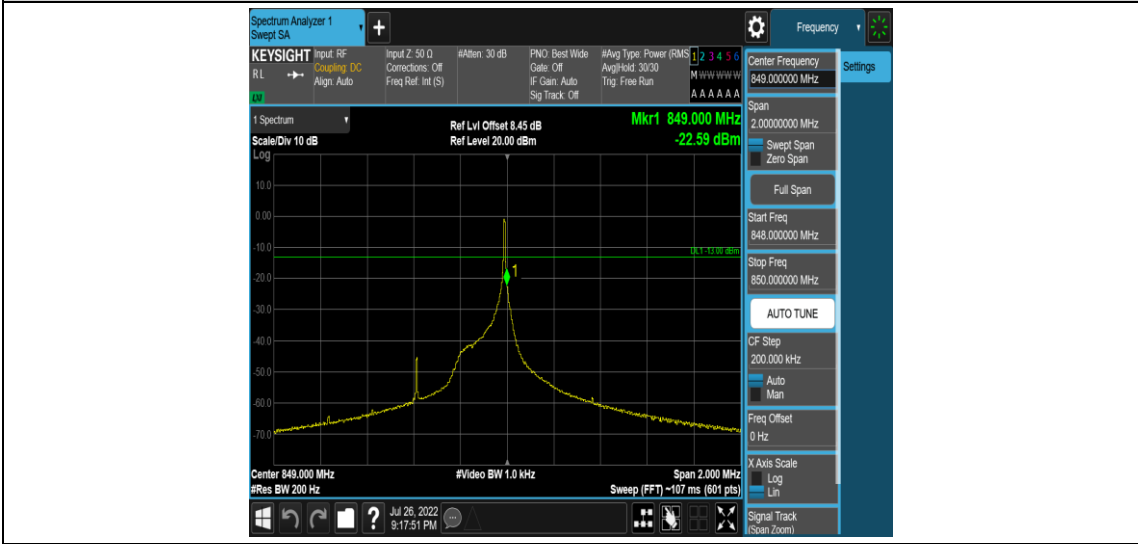
Band5-Stand-Alone-NaN-QPSK-20401-1 @0-3.75kHz--22.16-PASS



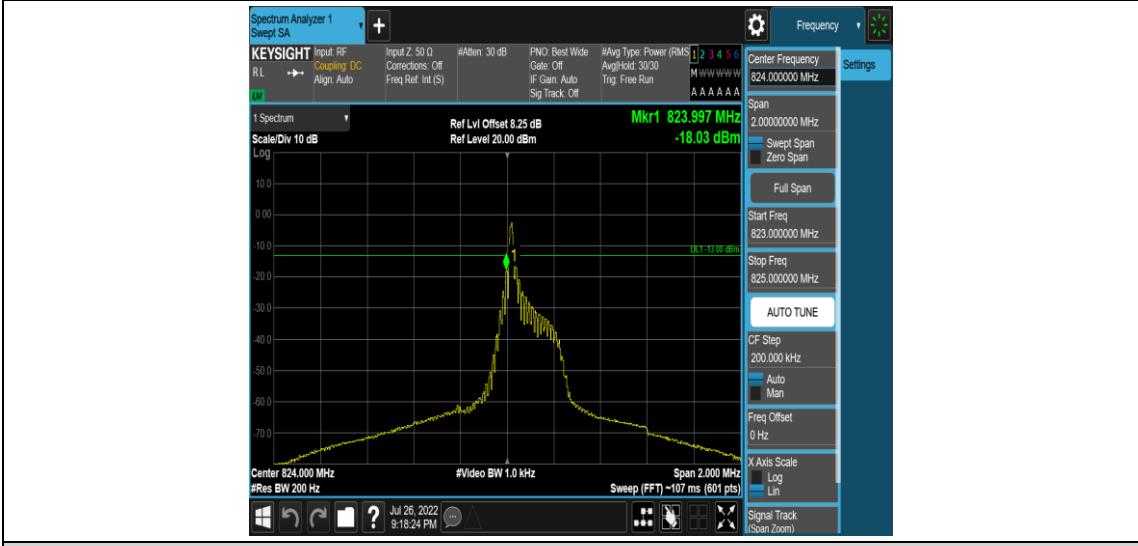
Band5-Stand-Alone-NaN-QPSK-20401-1 @47-3.75kHz--43.77-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1 @0-3.75kHz--44.42-PASS



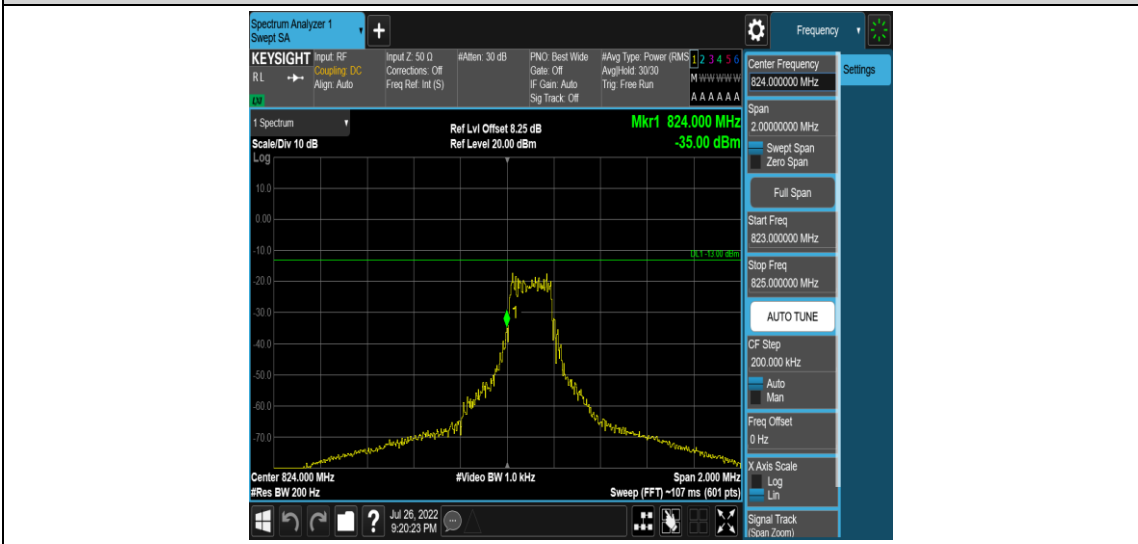
Band5-Stand-Alone-NaN-QPSK-20649-1 @47-3.75kHz--22.59-PASS



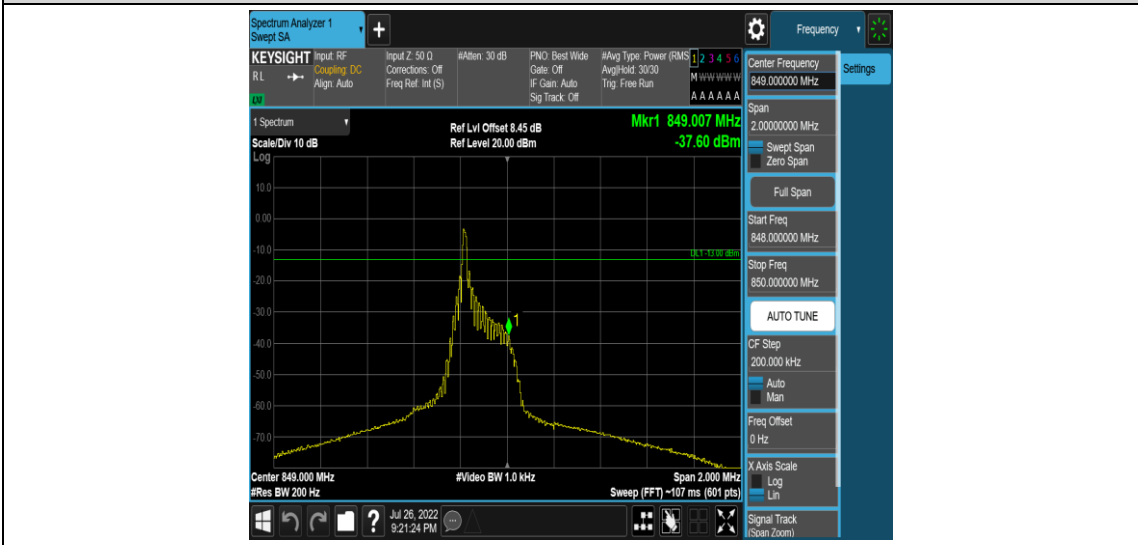
Band5-Stand-Alone-NaN-BPSK-20401-1 @0-15kHz--18.03-PASS



Band5-Stand-Alone-NaN-BPSK-20401-1 @ 11-15kHz--37.02-PASS



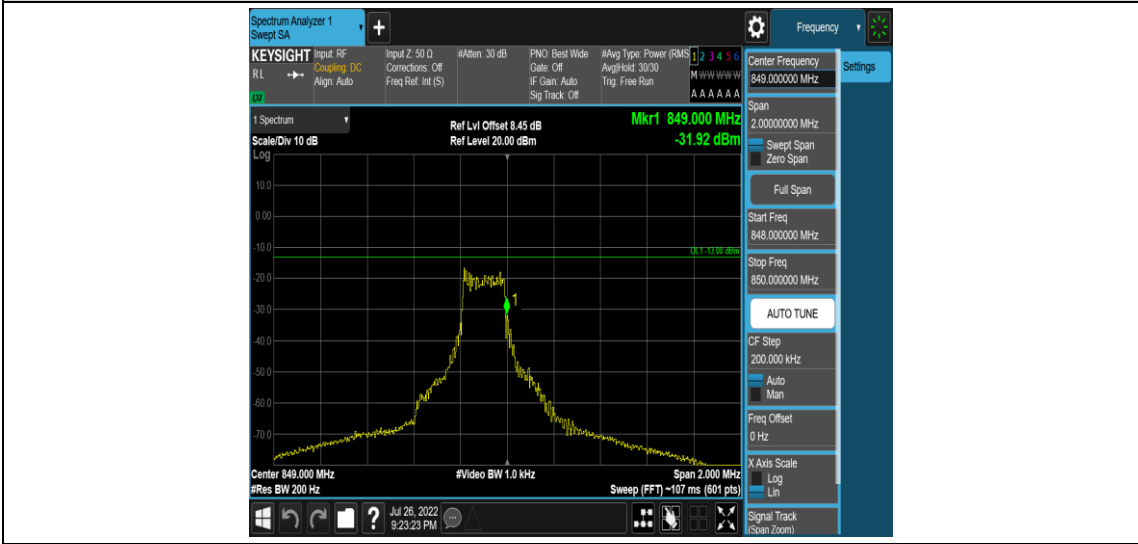
Band5-Stand-Alone-NaN-BPSK-20401-12 @ 0-15kHz--35.00-PASS



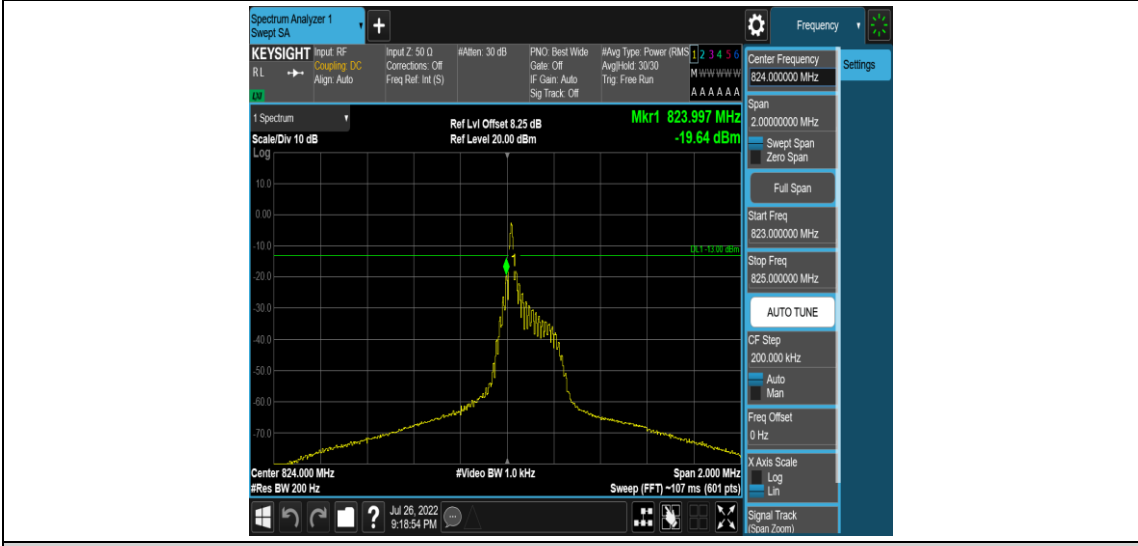
Band5-Stand-Alone-NaN-BPSK-20649-1 @ 0-15kHz--37.60-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1 @ 11-15kHz--18.40-PASS



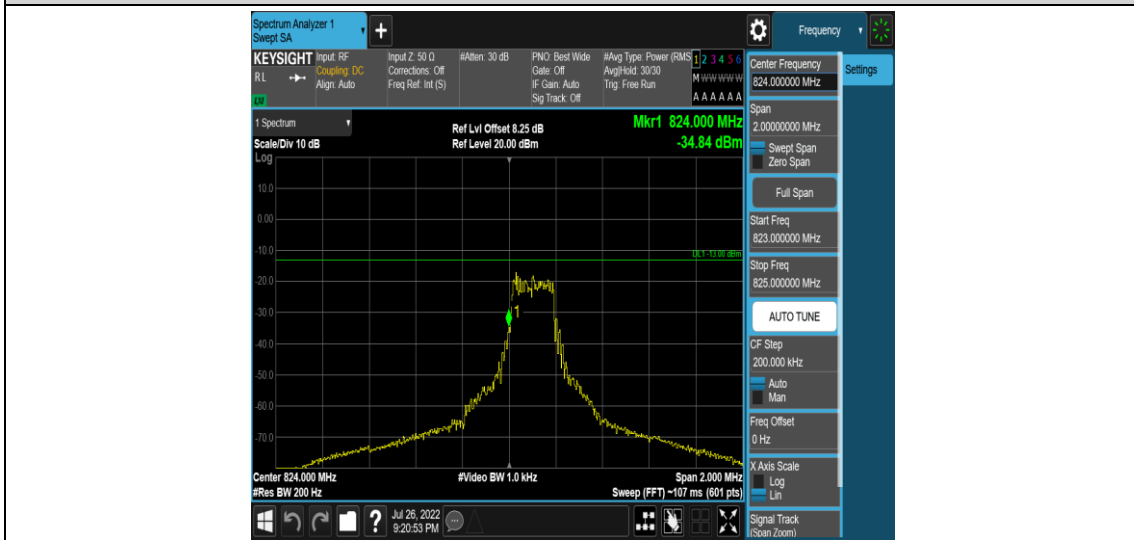
Band5-Stand-Alone-NaN-BPSK-20649-12 @ 0-15kHz--31.92-PASS



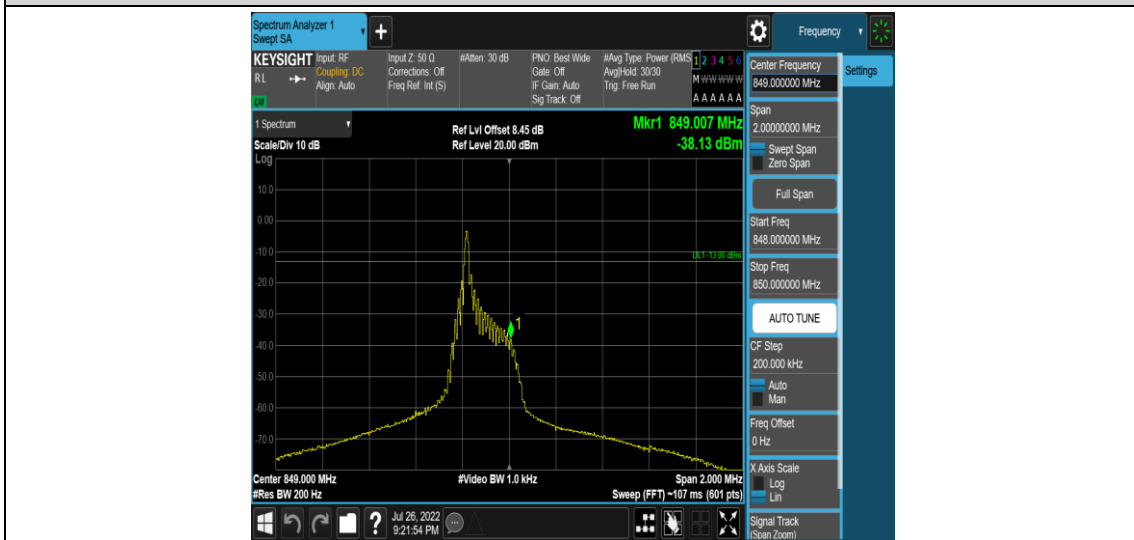
Band5-Stand-Alone-NaN-QPSK-20401-1 @ 0-15kHz--19.64-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1 @ 11-15kHz--37.90-PASS



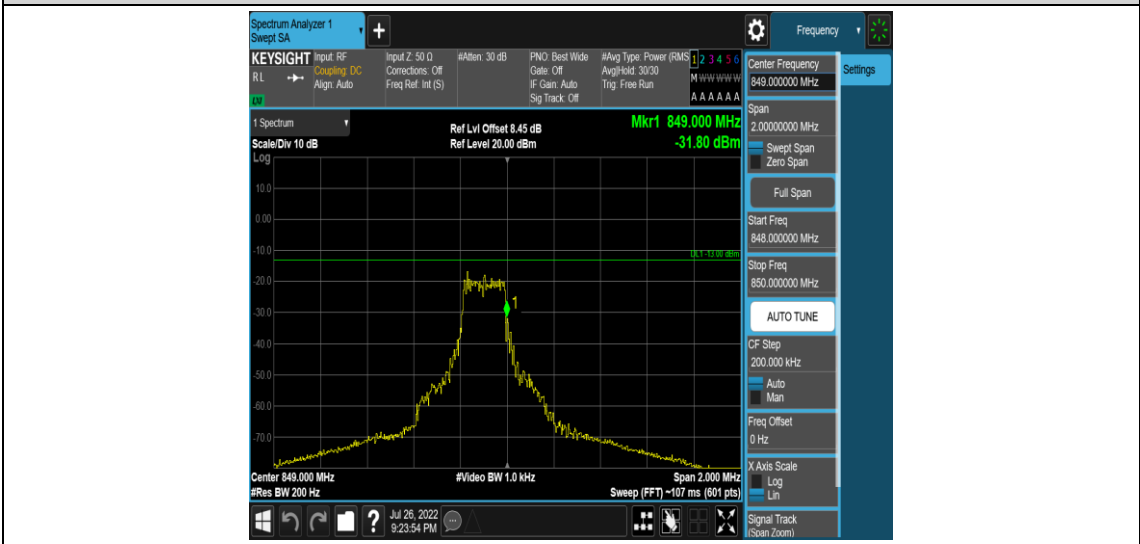
Band5-Stand-Alone-NaN-QPSK-20401-12 @ 0-15kHz--34.84-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1 @ 0-15kHz--38.13-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1 @ 11-15kHz--18.99-PASS



Band5-Stand-Alone-NaN-QPSK-20649-12 @ 0-15kHz--31.80-PASS

## Appendix E: Conducted Spurious Emission for NB1

### Test Result

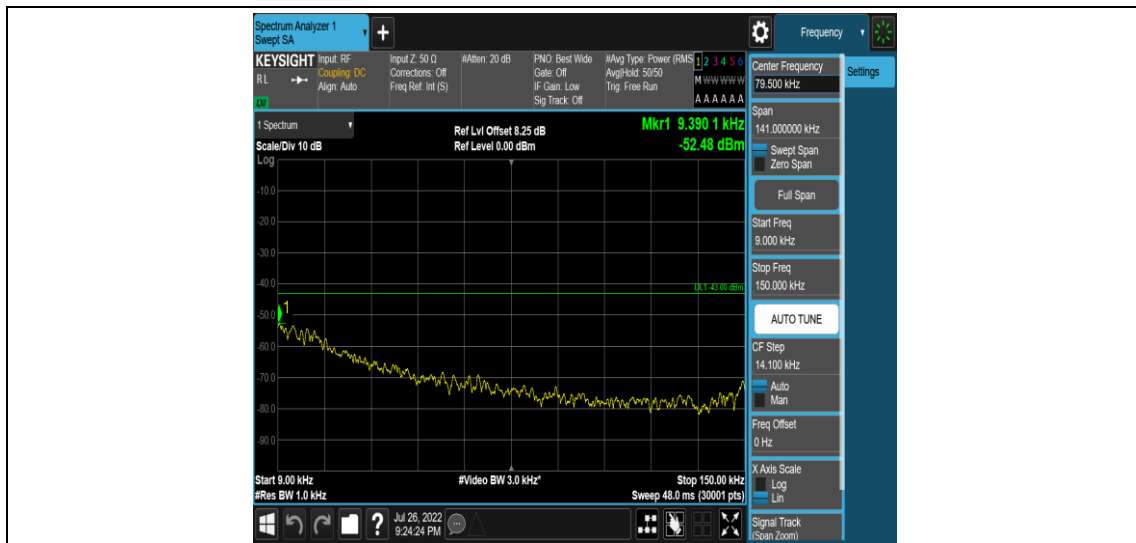
Band	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Limit (dBm)	Verdict
Band5	3.75kHz	NaN	QPSK	20401	1@0	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	1000	5000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@0	12000	26500	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	1000	5000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20401	1@47	12000	26500	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	1000	5000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@0	12000	26500	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	1000	5000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20525	1@47	12000	26500	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	1000	5000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@0	12000	26500	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	0.009	0.15	-43	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	0.15	30	-23	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	30	1000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	1000	5000	-13	PASS



Band5	3.75kHz	NaN	QPSK	20649	1@47	5000	12000	-13	PASS
Band5	3.75kHz	NaN	QPSK	20649	1@47	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@0	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20401	1@11	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@0	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20525	1@11	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@0	12000	26500	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	0.009	0.15	-43	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	0.15	30	-23	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	30	1000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	1000	5000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	5000	12000	-13	PASS
Band5	15kHz	NaN	BPSK	20649	1@11	12000	26500	-13	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	0.15	30	-23	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	30	1000	-13	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	1000	5000	-13	PASS

Band5	15kHz	NaN	QPSK	20401	12@0	5000	12000	-13	PASS
Band5	15kHz	NaN	QPSK	20401	12@0	12000	26500	-13	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	0.15	30	-23	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	30	1000	-13	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	1000	5000	-13	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	5000	12000	-13	PASS
Band5	15kHz	NaN	QPSK	20525	12@0	12000	26500	-13	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	0.009	0.15	-43	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	0.15	30	-23	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	30	1000	-13	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	1000	5000	-13	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	5000	12000	-13	PASS
Band5	15kHz	NaN	QPSK	20649	12@0	12000	26500	-13	PASS

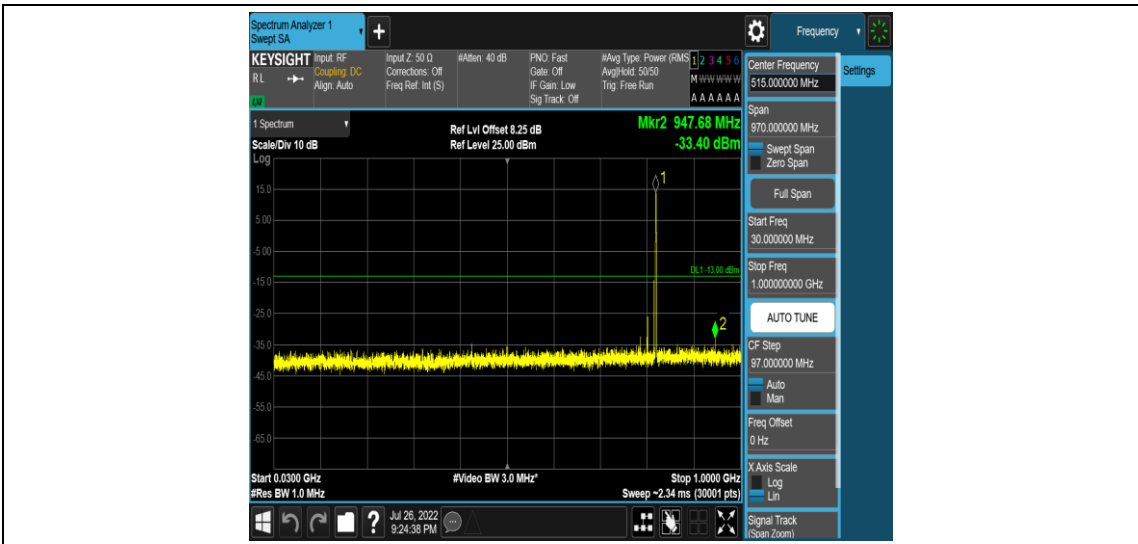
### Test Graphs



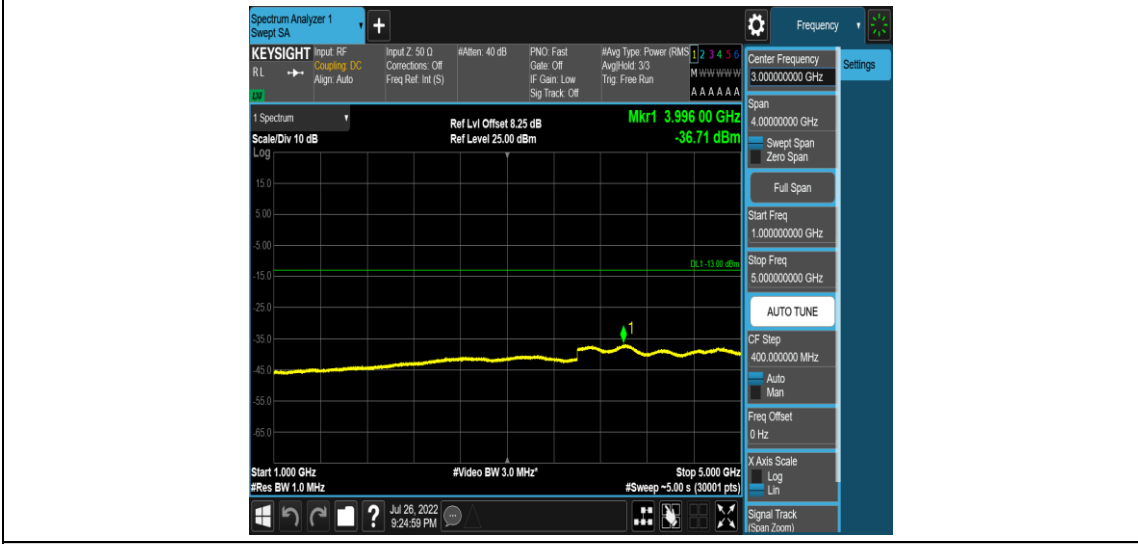
Band5-Stand-Alone-NaN-QPSK-20401-1 @0-3.75kHz-0.009-0.15-0.009~0.15MHz@-52.48dBm--43-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1 @0-3.75kHz-0.15-30-0.15~30MHz@-51.96dBm--23-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1 @0-3.75kHz-30-1000-30~1000MHz@-33.4dBm--13-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1 @0-3.75kHz-1000-5000-1000~5000MHz@-36.71dBm--13-PASS

