

FCC LTE NB-IOT Band 5 Test Data

General Description of EUT	
Product Name:	AirSuite Glance LTE
Test Model:	ASCM1420
Sample ID:	C-202305-0005-01-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0005-81 . The report only show the worst case data.	

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1: Conducted Power Data for NB1

1.1 Test Result

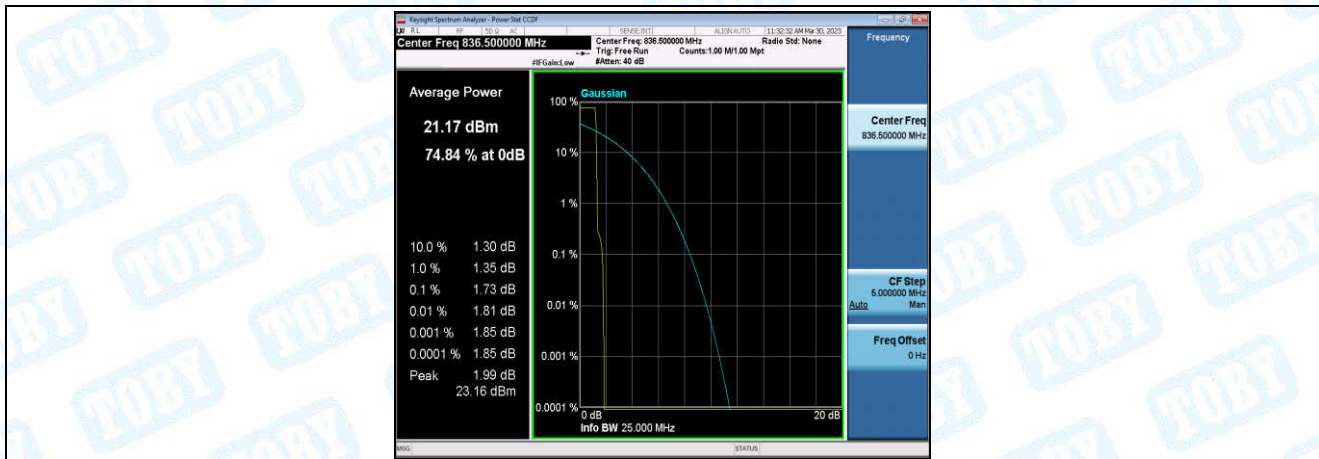
Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	BPSK	20401	1@0	23.57	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20401	1@47	23.51	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20525	1@0	23.60	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20525	1@47	23.53	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20649	1@0	23.48	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20649	1@47	23.41	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	23.59	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	23.53	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	23.56	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	23.51	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	23.44	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	23.38	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	23.62	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@11	23.52	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	3@3	23.57	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	23.20	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	23.08	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	3@3	23.58	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	23.47	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	23.35	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	3@3	23.33	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	1@0	23.49	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	1@11	23.51	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	3@3	23.57	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	23.03	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	23.16	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	3@3	23.61	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	1@0	22.91	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	1@11	22.91	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	3@3	23.34	PASS

2: Peak-to-Average Ratio(CCDF) for NB1

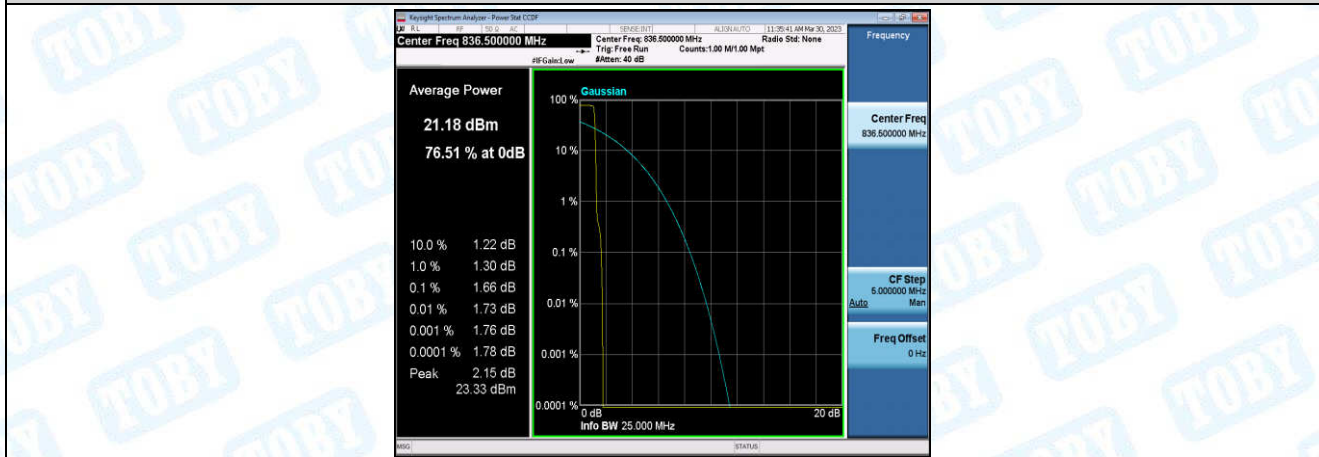
2.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	BPSK	20525	1@0	1.73	<=13	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20525	1@47	1.66	<=13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	1.66	<=13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	2.69	<=13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	3.9	<=13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	3.65	<=13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	3@3	7.96	<=13	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	10.22	<=13	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	6.85	<=13	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	3@3	11.47	<=13	PASS

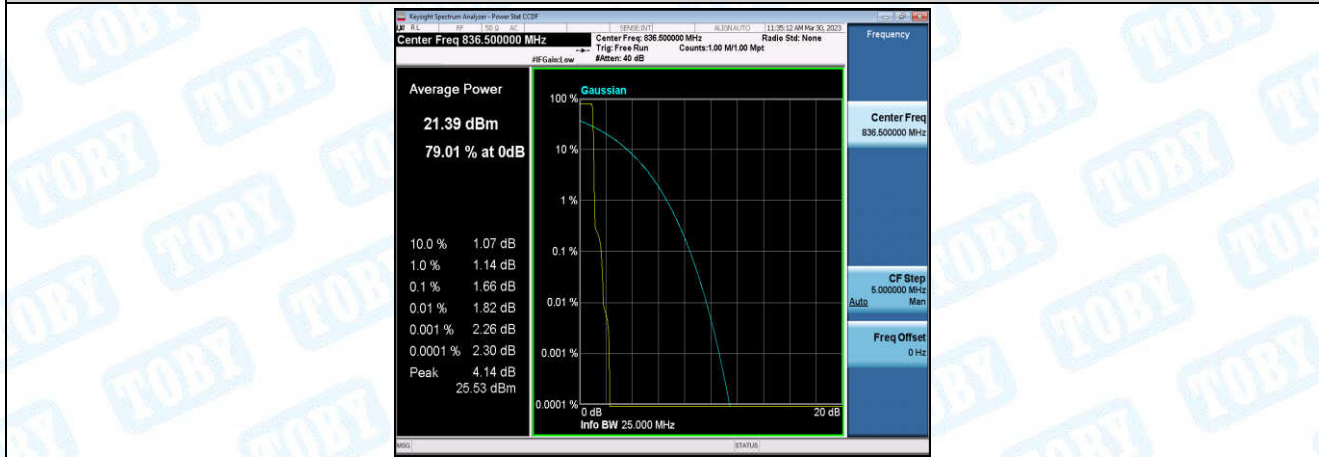
2.2 Test Graphs



Band5-Stand-Alone-NaN-BPSK-20525-1@0-3.75kHz-1.73-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1@47-3.75kHz-1.66-<=13-PASS



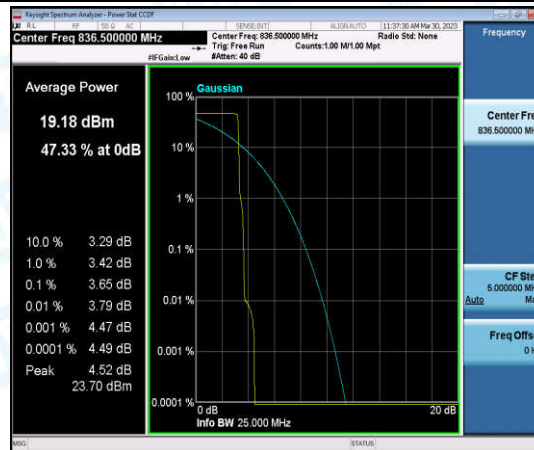
Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-1.66-<=13-PASS



Band5-Stand-Alone-NaN-QPSK-20525-1@47-3.75kHz-2.69-<=13-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-3.9-<=13-PASS



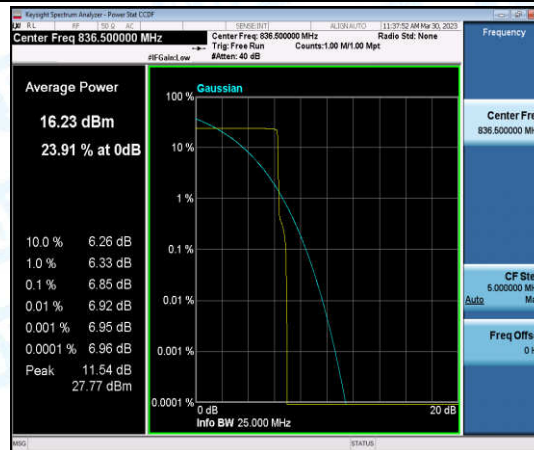
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-3.65-<=13-PASS



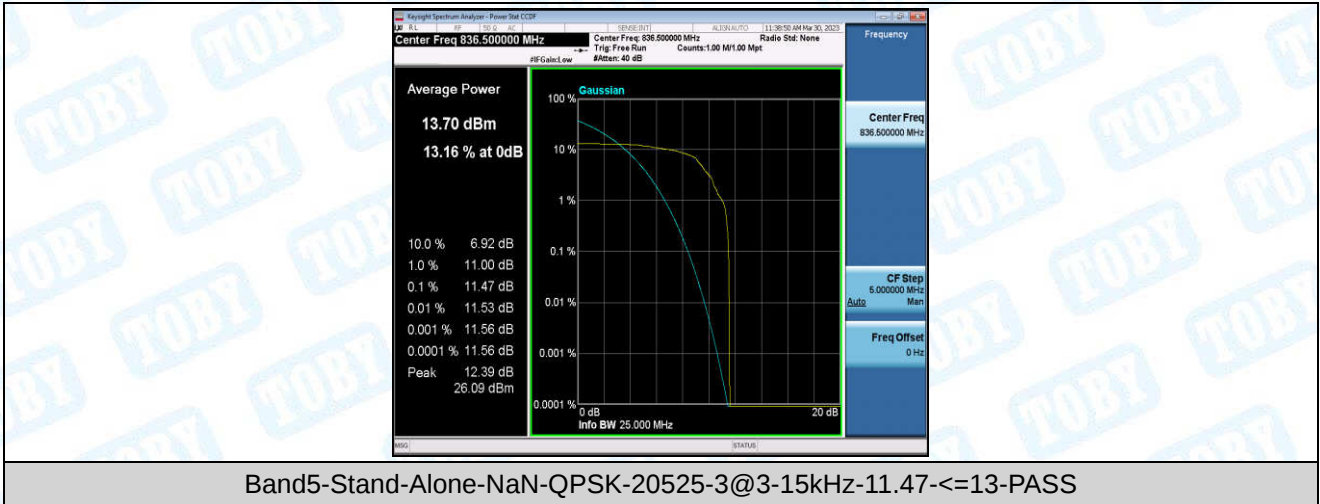
Band5-Stand-Alone-NaN-BPSK-20525-3@3-15kHz-7.96-<=13-PASS



Band5-Stand-Alone-NaN-QPSK-20525-1@0-15kHz-10.22-<=13-PASS



Band5-Stand-Alone-NaN-QPSK-20525-1@11-15kHz-6.85-<=13-PASS



3: Emission Bandwidth for NB1

3.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Occupied Bandwidth (MHz)	Result (MHz)	Verdict
Band5	Stand-Alone	3.75kHz	BPSK	20401	1@0	0.0750	0.0505	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20525	1@0	0.0726	0.0505	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20649	1@0	0.1035	0.1045	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	0.0917	0.0542	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	0.0915	0.0544	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	0.0910	0.0542	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	0.1359	0.1302	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	12@0	0.1711	0.1907	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	0.1402	0.1246	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	12@0	0.1884	0.2689	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	0.1372	0.1246	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	12@0	0.1877	0.3038	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	1@0	0.1447	0.1554	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	12@0	0.1887	0.2881	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	0.1487	0.1455	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	12@0	0.1786	0.2819	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	1@0	0.1435	0.1567	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	0.1874	0.2662	PASS

3.2 Test Graphs



Band5-Stand-Alone-NaN-BPSK-20401-1@0-3.75kHz-0.0505-PASS



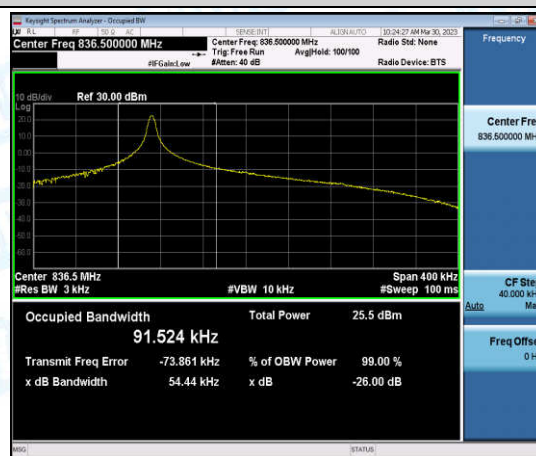
Band5-Stand-Alone-NaN-BPSK-20525-1@0-3.75kHz-0.0505-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1@0-3.75kHz-0.1045-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz-0.0542-PASS



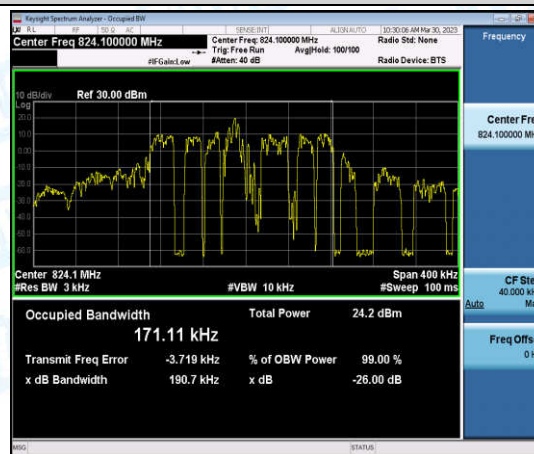
Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-0.0544-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-0.0542-PASS



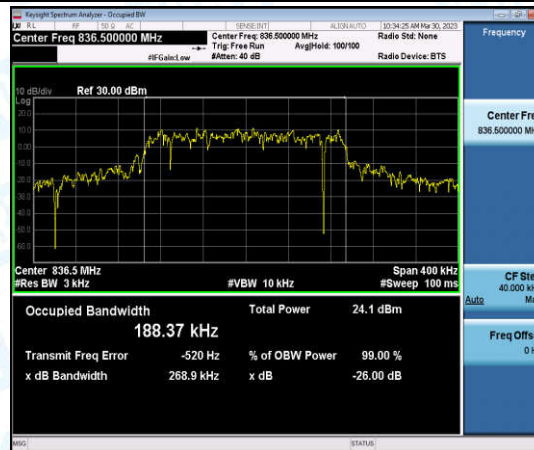
Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-0.1302-PASS



Band5-Stand-Alone-NaN-BPSK-20401-12@0-15kHz-0.1907-PASS



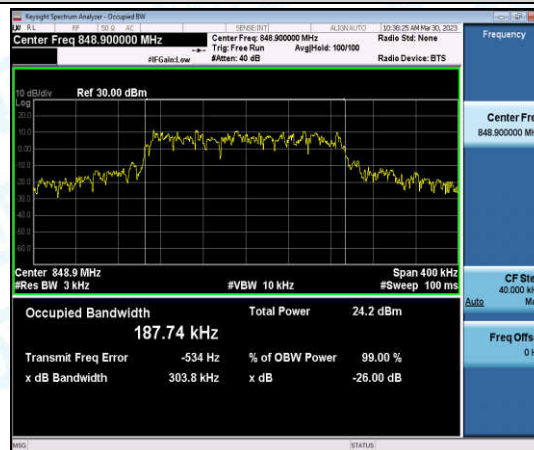
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-0.1246-PASS



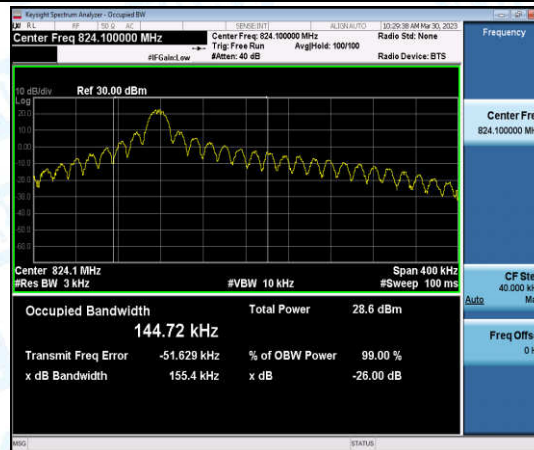
Band5-Stand-Alone-NaN-BPSK-20525-12@0-15kHz-0.2689-PASS



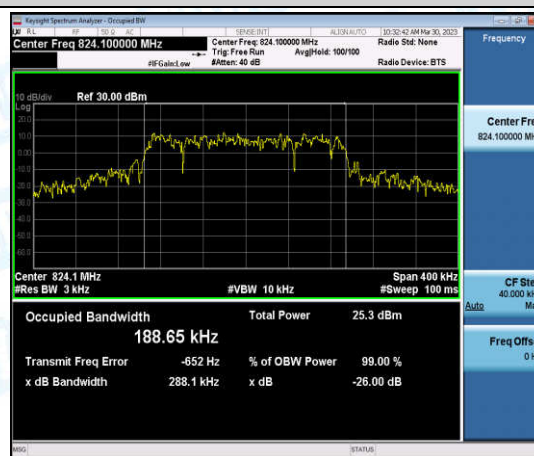
Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-0.1246-PASS



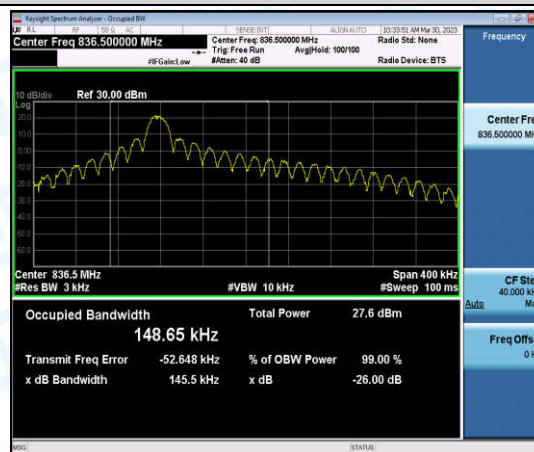
Band5-Stand-Alone-NaN-BPSK-20649-12@0-15kHz-0.3038-PASS



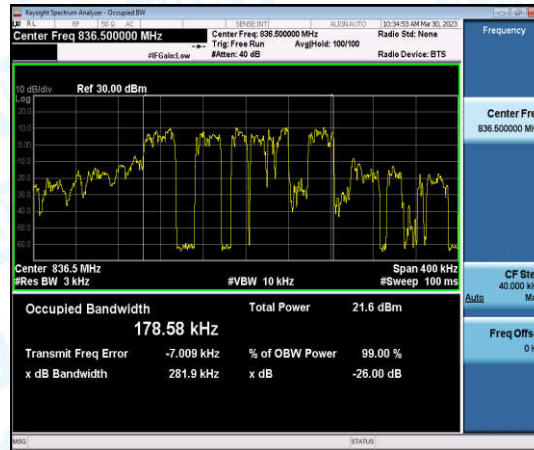
Band5-Stand-Alone-NaN-QPSK-20401-1@0-15kHz-0.1554-PASS



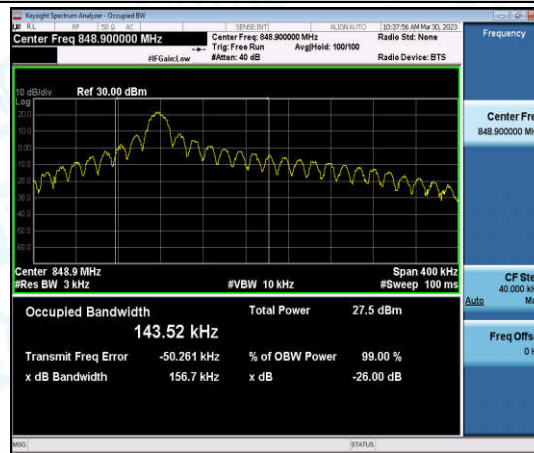
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-0.2881-PASS



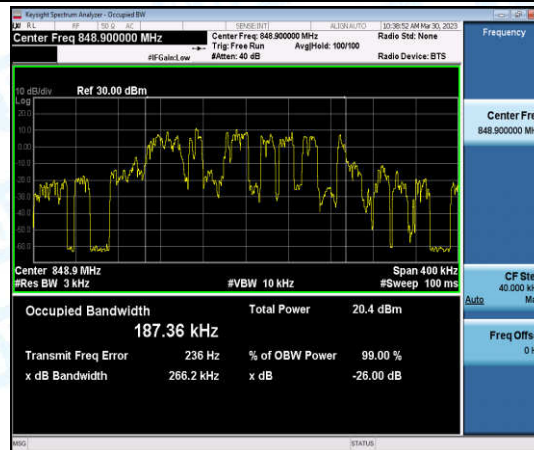
Band5-Stand-Alone-NaN-QPSK-20525-1@0-15kHz-0.1455-PASS



Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.2819-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-15kHz-0.1567-PASS



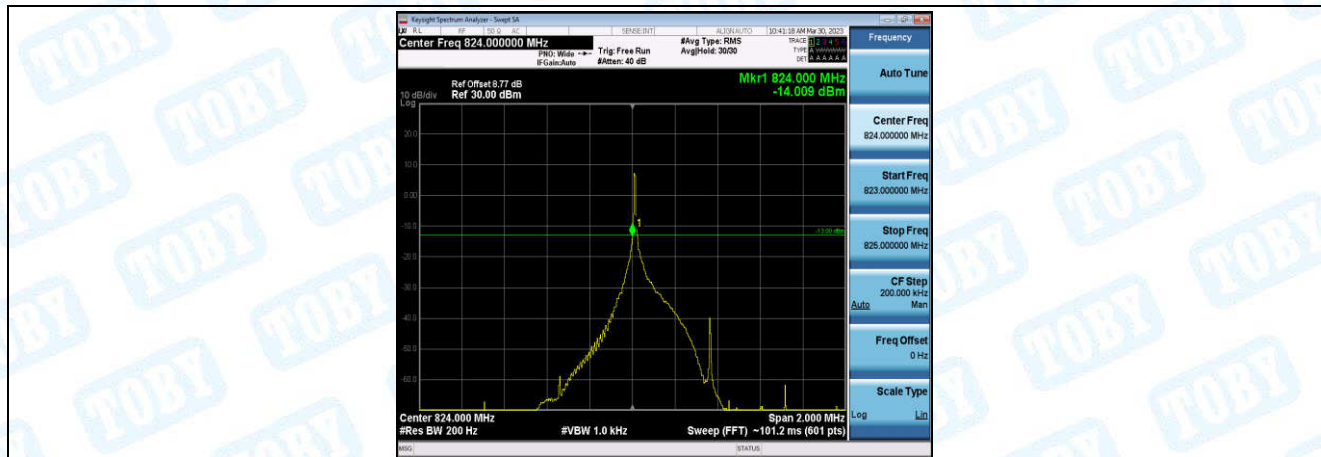
Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz-0.2662-PASS

4: Band Edge for NB1

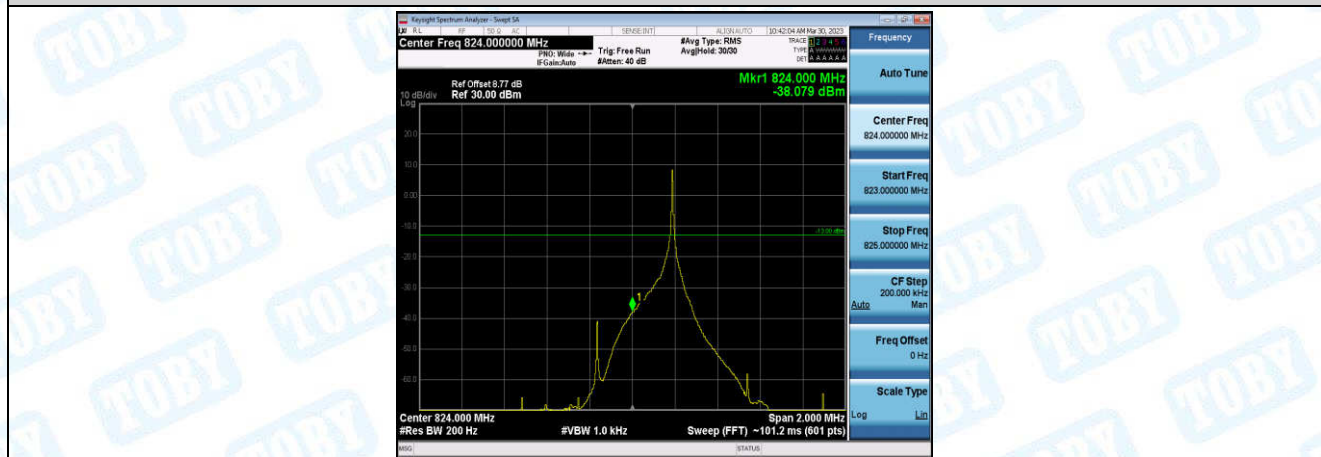
4.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	BPSK	20401	1@0	-14.01	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20401	1@47	-38.08	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20649	1@0	-39.37	PASS
Band5	Stand-Alone	3.75kHz	BPSK	20649	1@47	-15.92	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	-15.55	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	-38.08	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	-40.21	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	-15.81	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	-15.81	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@11	-35.64	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	12@0	-38.82	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	-35.10	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	-15.86	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	12@0	-39.34	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	1@0	-17.61	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	1@11	-35.45	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	12@0	-37.77	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	1@0	-36.08	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	1@11	-16.23	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	-41.11	PASS

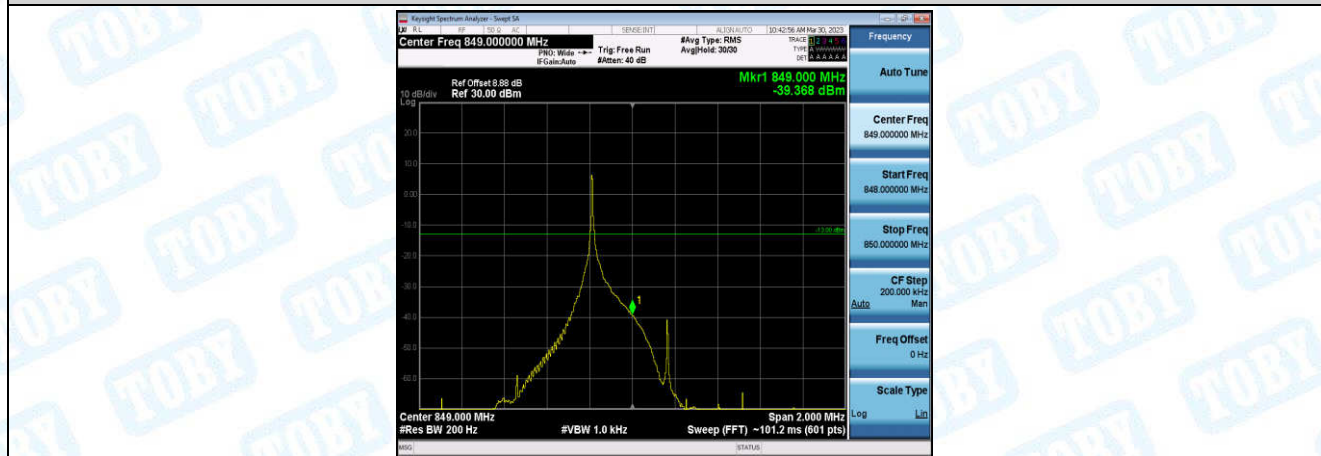
4.2 Test Graphs



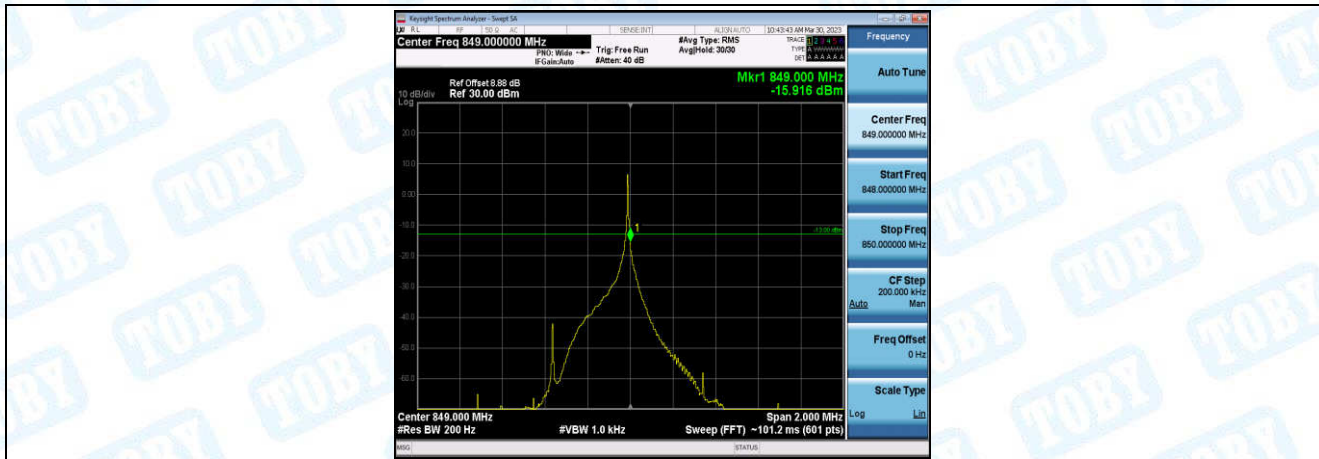
Band5-Stand-Alone-NaN-BPSK-20401-1@0-3.75kHz--14.01-PASS



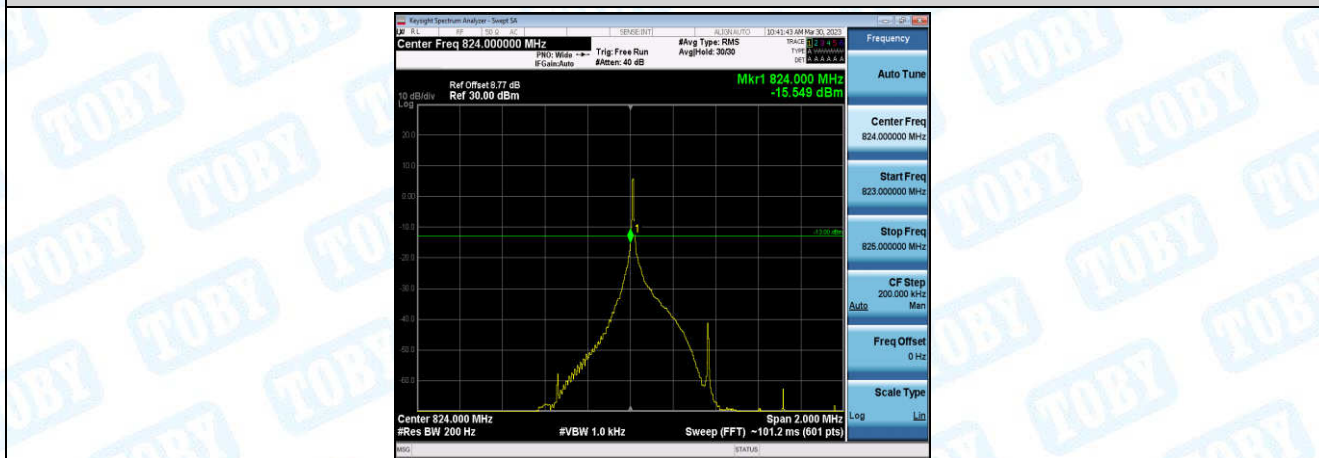
Band5-Stand-Alone-NaN-BPSK-20401-1@47-3.75kHz--38.08-PASS



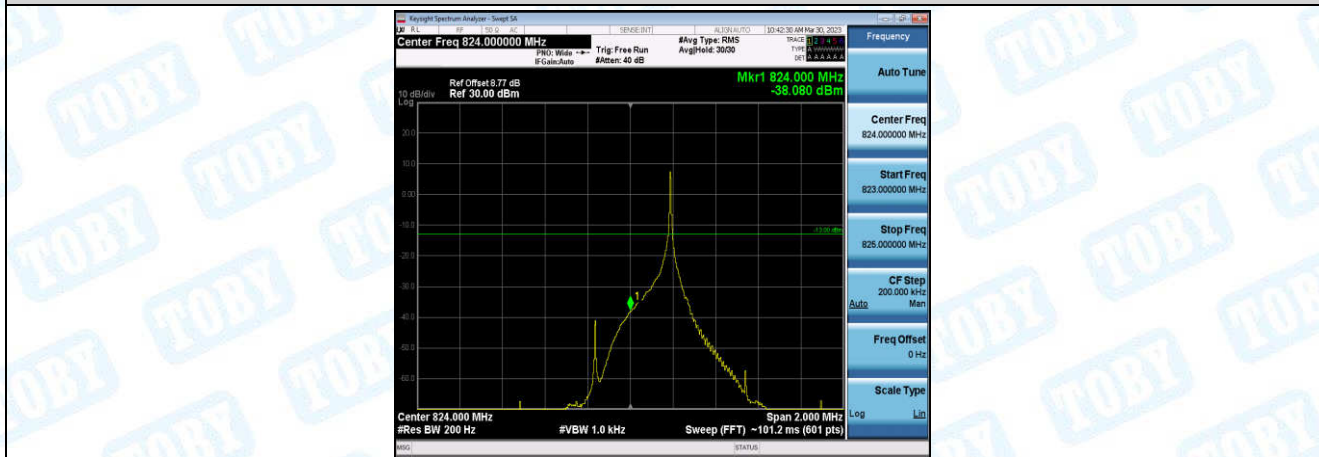
Band5-Stand-Alone-NaN-BPSK-20649-1@0-3.75kHz--39.37-PASS



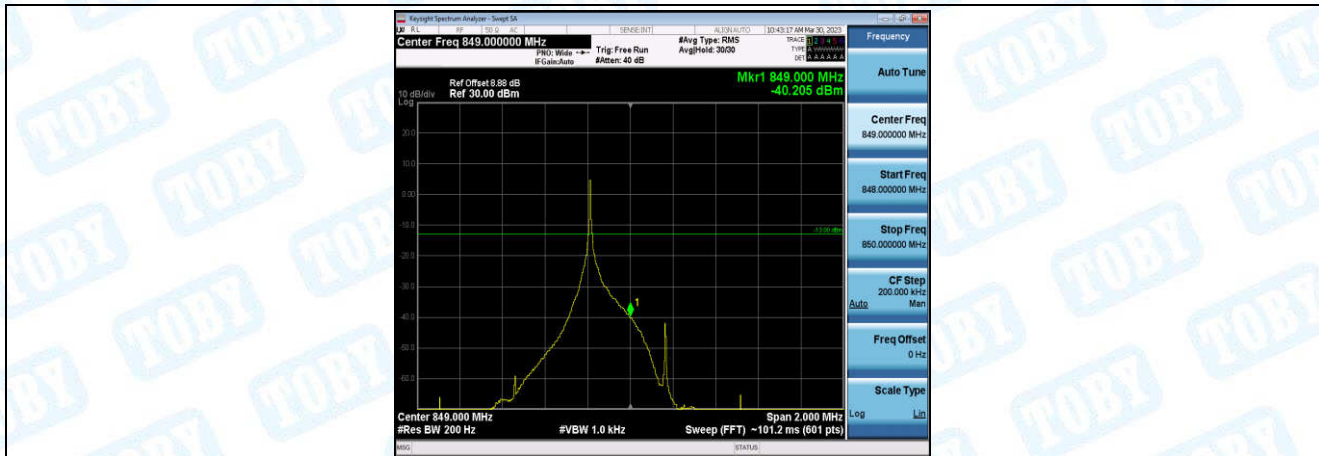
Band5-Stand-Alone-NaN-BPSK-20649-1@47-3.75kHz--15.92-PASS



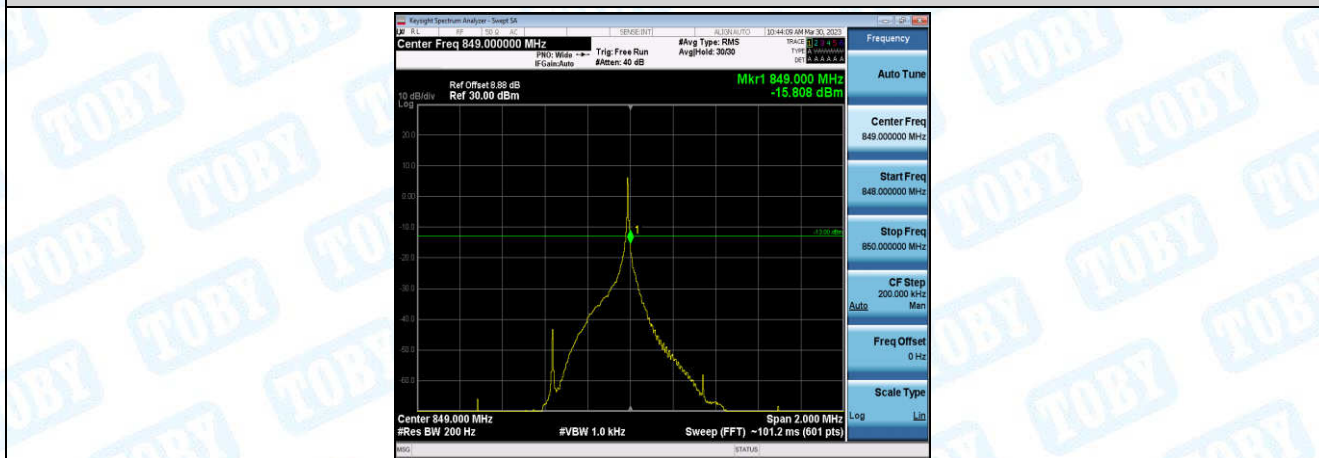
Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz--15.55-PASS



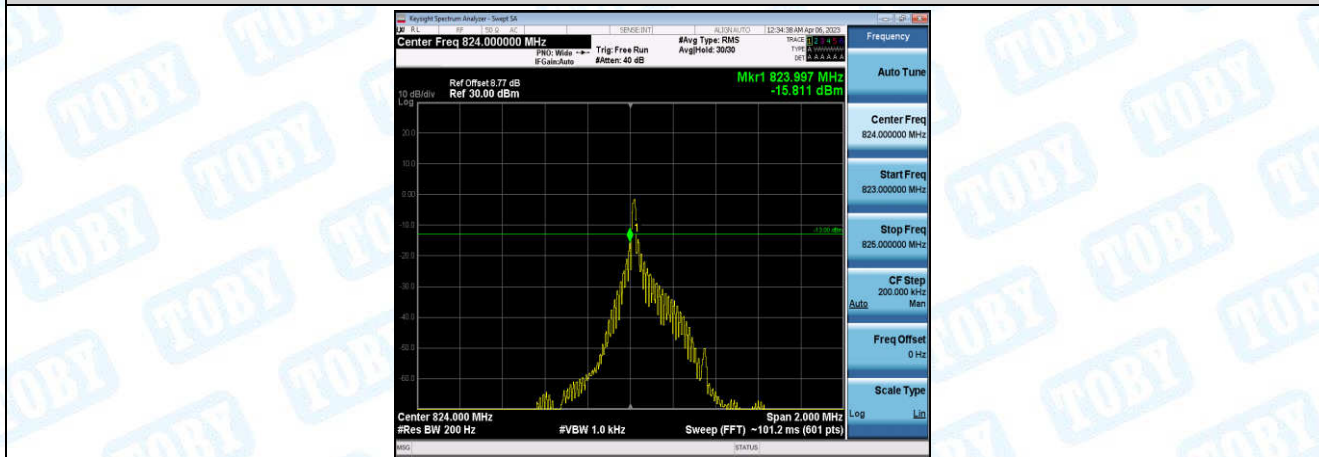
Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz--38.08-PASS



Band5-Stand-Alone-Na-N-QPSK-20649-1@0-3.75kHz--40.21-PASS



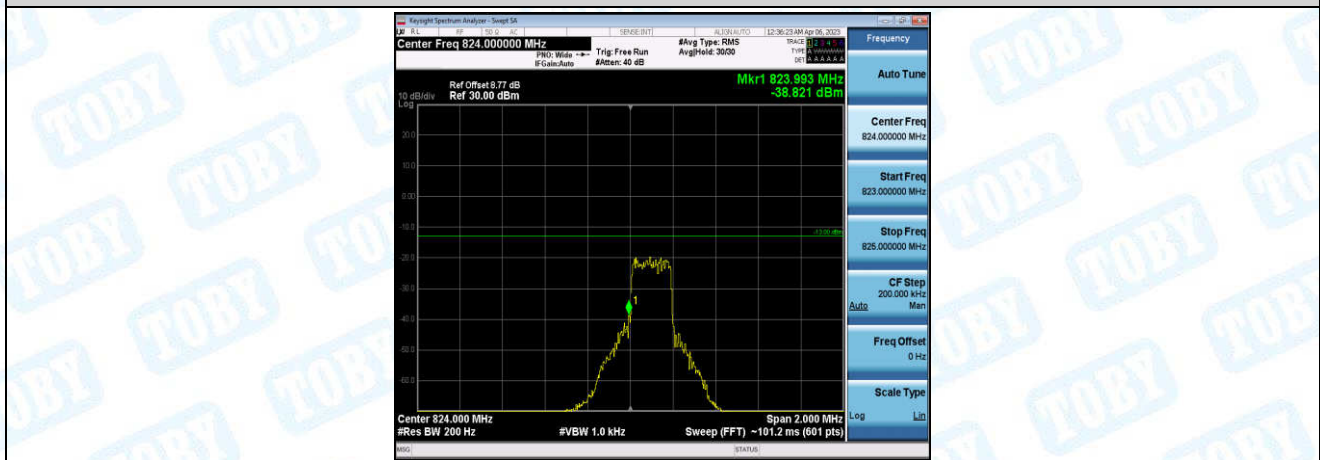
Band5-Stand-Alone-Na-N-QPSK-20649-1@47-3.75kHz--15.81-PASS



Band5-Stand-Alone-Na-N-BPSK-20401-1@0-15kHz--15.81-PASS



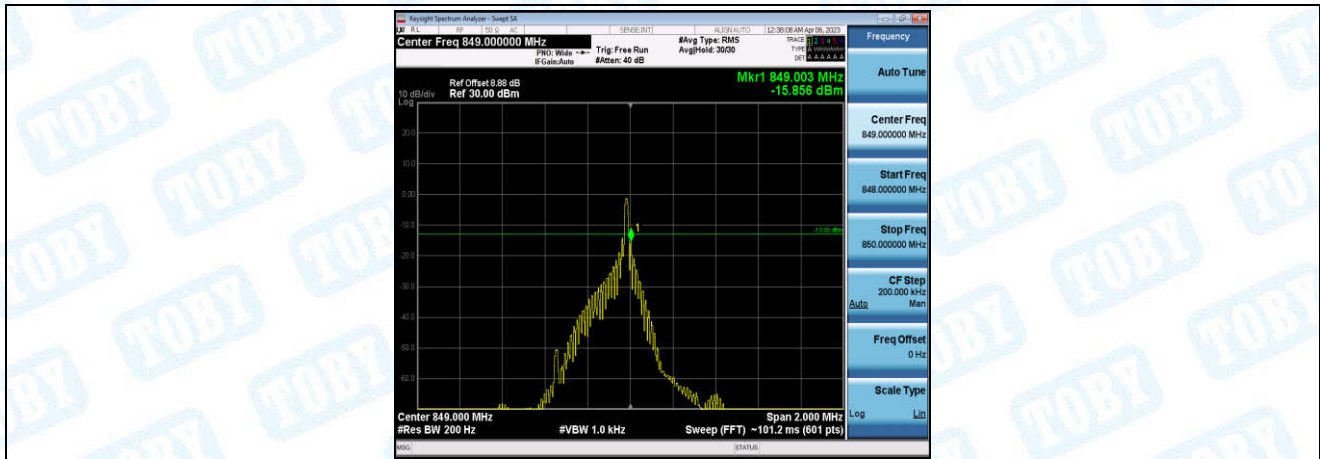
Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz--35.64-PASS



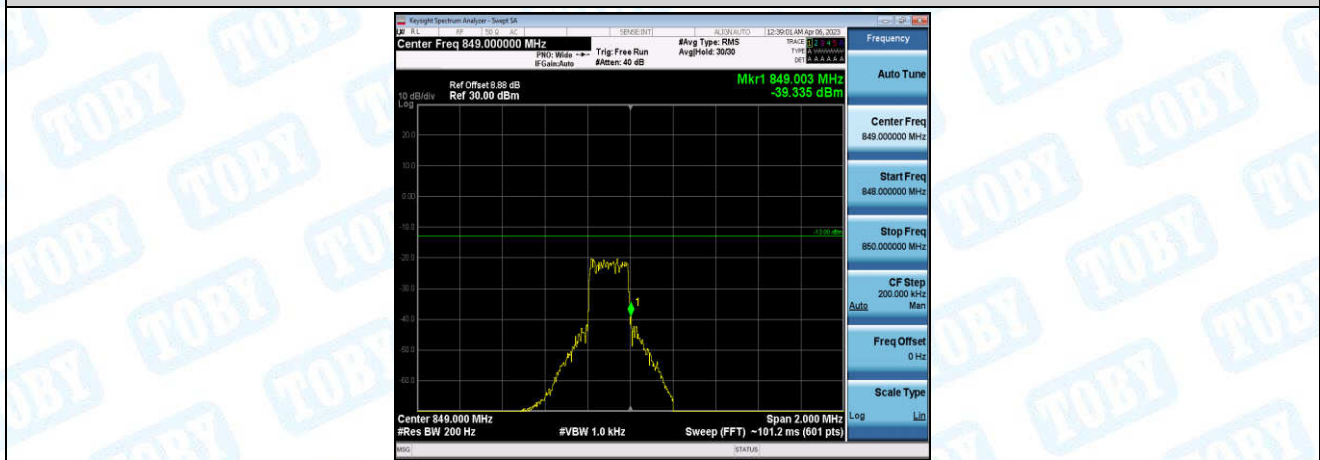
Band5-Stand-Alone-NaN-BPSK-20401-12@0-15kHz--38.82-PASS



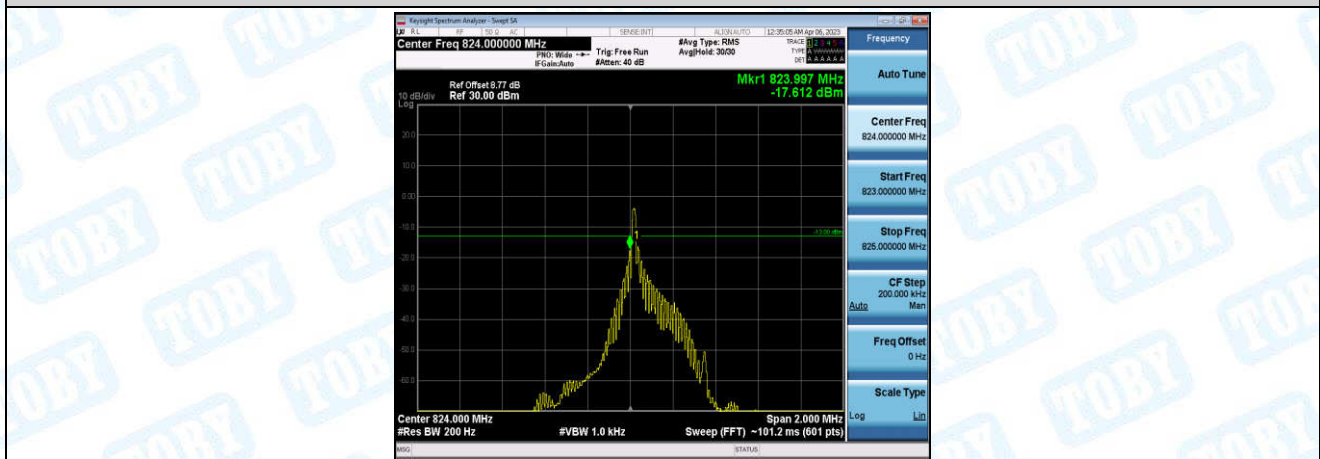
Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz--35.10-PASS



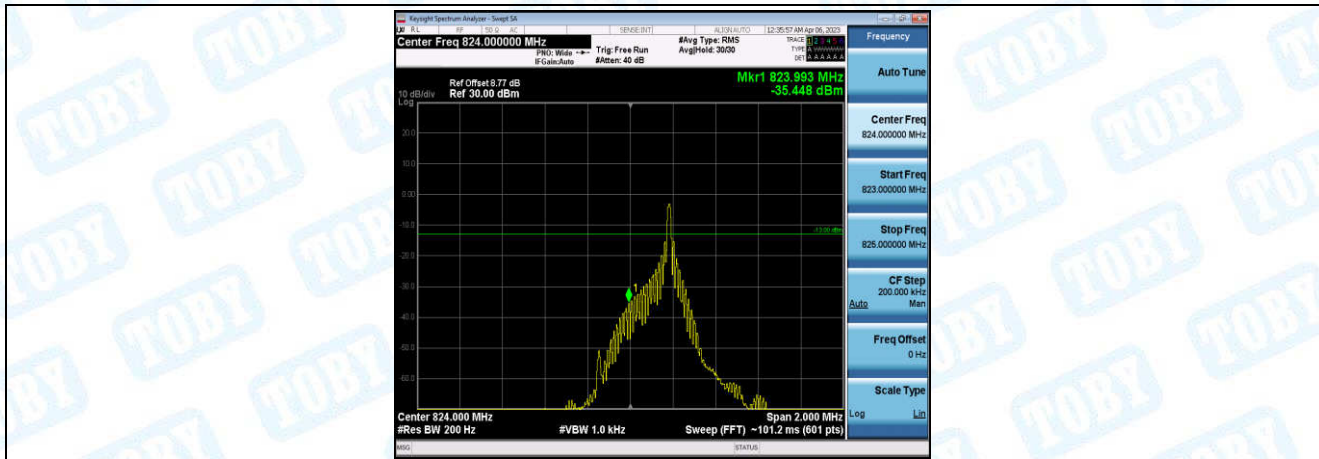
Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz--15.86-PASS



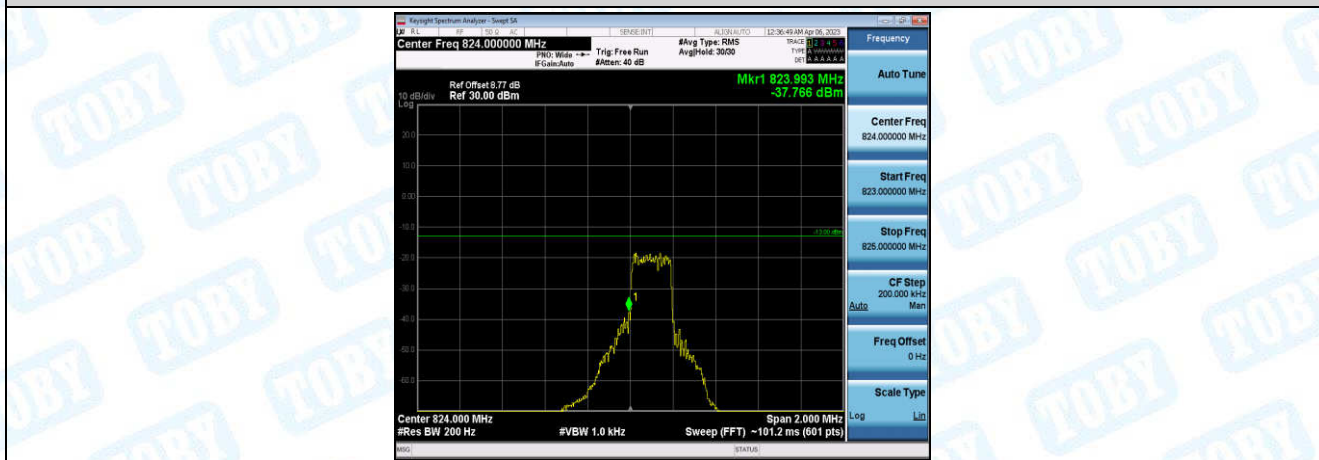
Band5-Stand-Alone-NaN-BPSK-20649-12@0-15kHz--39.34-PASS



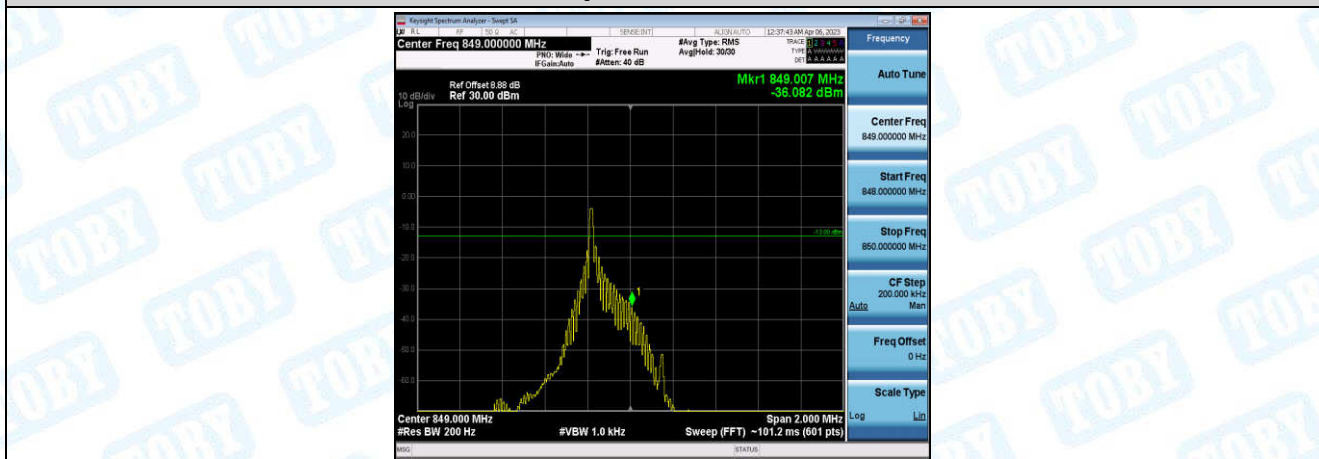
Band5-Stand-Alone-NaN-QPSK-20401-1@0-15kHz--17.61-PASS



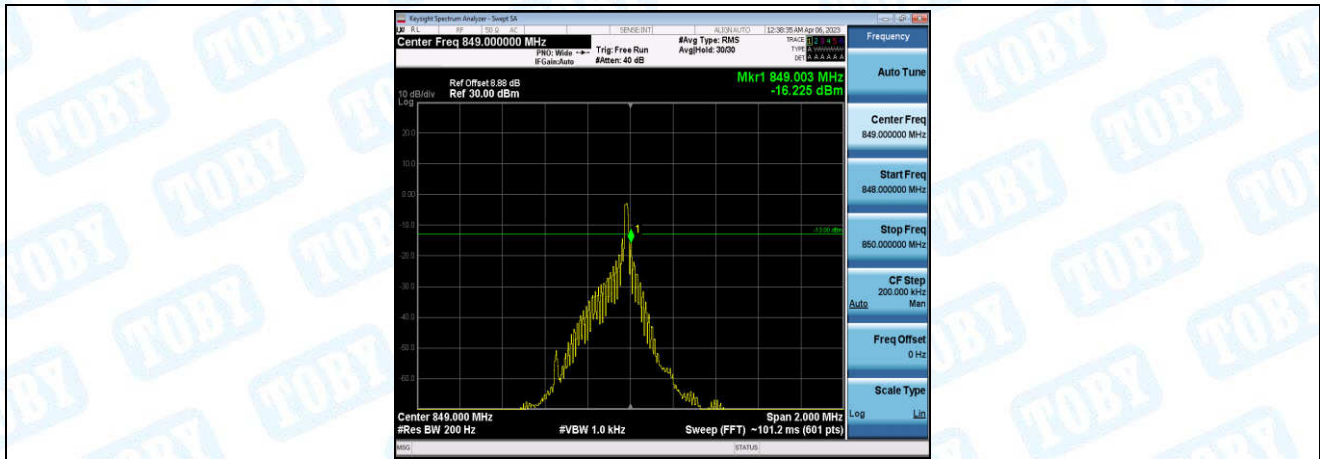
Band5-Stand-Alone-NaN-QPSK-20401-1@11-15kHz--35.45-PASS



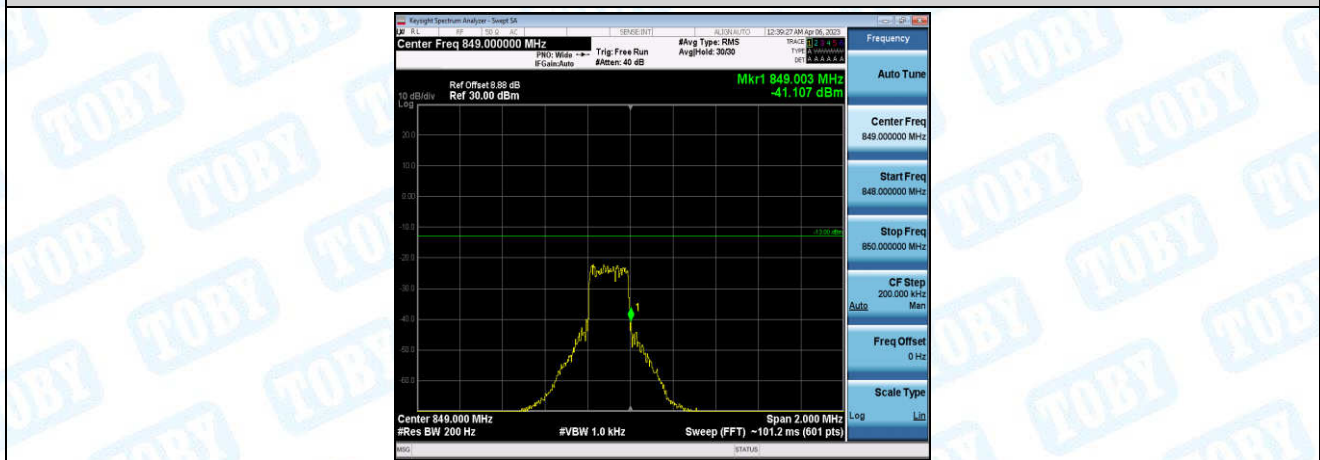
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz--37.77-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@0-15kHz--36.08-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@11-15kHz--16.23-PASS



Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz--41.11-PASS

5: Conducted Spurious Emission for NB1

5.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	0.009	0.15	0.009~0.15MHz @-62.26dBm	-33	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	0.15	30	0.15~30MHz @-67.83dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	30	1000	30~1000MHz @-58.95dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@0	1000	10000	1000~10000MHz @-43.24dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	0.009	0.15	0.009~0.15MHz @-63.16dBm	-33	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	0.15	30	0.15~30MHz @-65.59dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	30	1000	30~1000MHz @-59.05dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20401	1@47	1000	10000	1000~10000MHz @-44.93dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	0.009	0.15	0.009~0.15MHz @-62.47dBm	-33	PASS

Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	0.15	30	0.15~30MHz @-66.62dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	30	1000	30~1000MHz @-59.3dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	1000	10000	1000~10000MHz @-46.98dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	0.009	0.15	0.009~0.15MHz @-60.78dBm	-33	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	0.15	30	0.15~30MHz @-66.13dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	30	1000	30~1000MHz @-59.22dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	1000	10000	1000~10000MHz @-46.44dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	0.009	0.15	0.009~0.15MHz @-63.5dBm	-33	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	0.15	30	0.15~30MHz @-66.8dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	30	1000	30~1000MHz @-58.84dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@0	1000	10000	1000~10000MHz @-4	-13	PASS

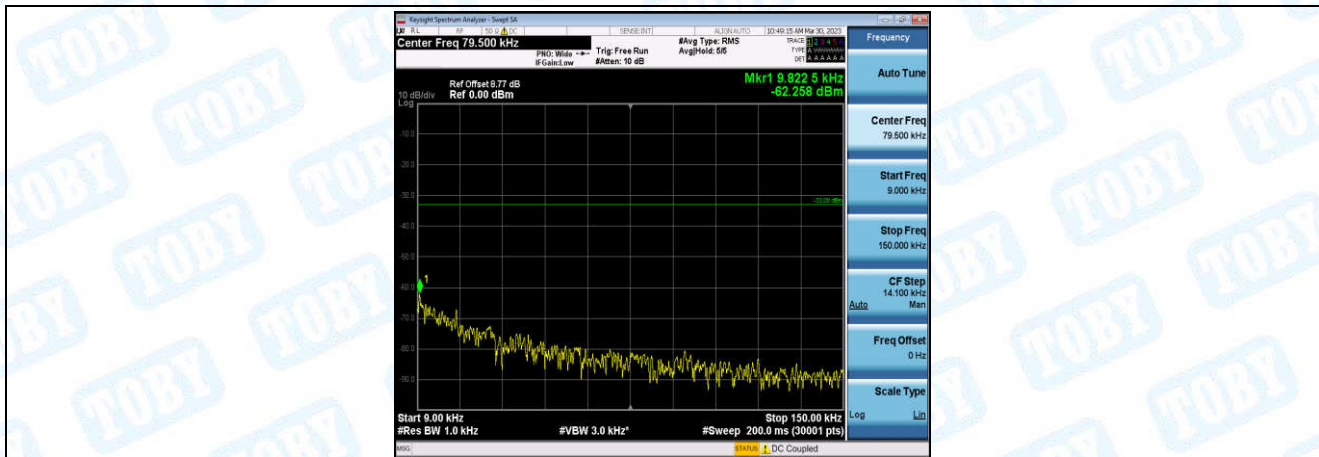
								7.17dBm		
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	0.009	0.15	0.009~0.15MHz @-61.73dBm	-33	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	0.15	30	0.15~30MHz @-66.96dBm	-23	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	30	1000	30~1000MHz @-59.03dBm	-13	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20649	1@47	1000	10000	1000~10000MHz @-47.15dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	0.009	0.15	0.009~0.15MHz @-62.95dBm	-33	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	0.15	30	0.15~30MHz @-66.96dBm	-23	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	30	1000	30~1000MHz @-59.23dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@0	1000	10000	1000~10000MHz @-44.67dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@11	0.009	0.15	0.009~0.15MHz @-63.99dBm	-33	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@11	0.15	30	0.15~30MHz @-67.34dBm	-23	PASS

Band5	Stand-Alone	15kHz	BPSK	20401	1@11	30	1000	30~100 0MHz @-59.2 6dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20401	1@11	1000	1000 0	1000~1 0000M Hz@-4 4.71dB m	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	0.009	0.15	0.009~ 0.15MH z@-62. 3dBm	-33	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	0.15	30	0.15~3 0MHz @-68.0 9dBm	-23	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	30	1000	30~100 0MHz @-58.7 2dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@0	1000	1000 0	1000~1 0000M Hz@-4 7dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	0.009	0.15	0.009~ 0.15MH z@-64. 11dBm	-33	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	0.15	30	0.15~3 0MHz @-68.7 2dBm	-23	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	30	1000	30~100 0MHz @-59d Bm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20525	1@11	1000	1000 0	1000~1 0000M Hz@-4 6.88dB m	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	0.009	0.15	0.009~ 0.15MH z@-62.	-33	PASS

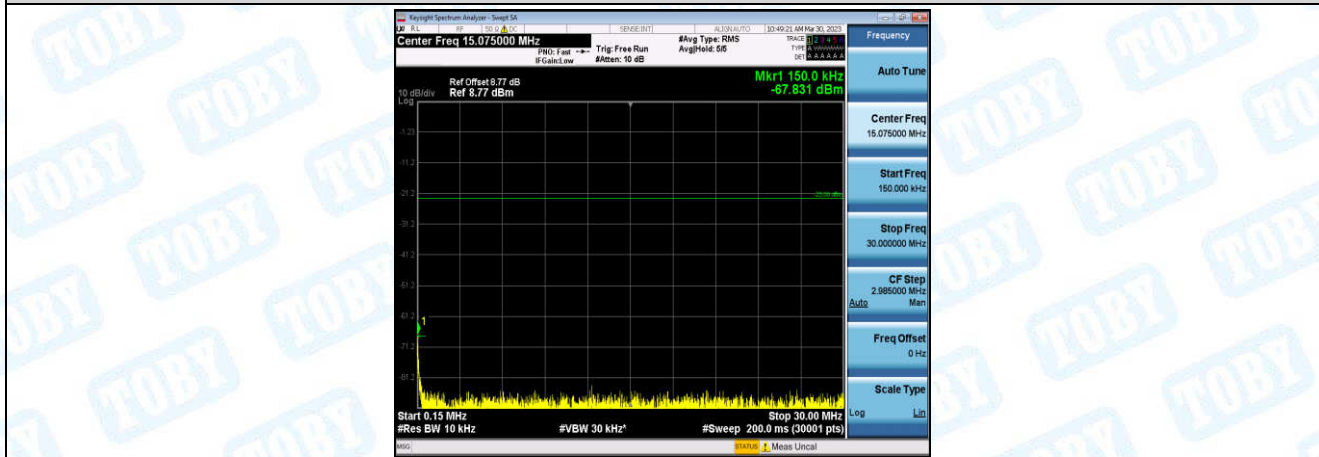
								93dBm		
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	0.15	30	0.15~30MHz @-67.81dBm	-23	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	30	1000	30~1000MHz @-58.37dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@0	1000	10000	1000~10000MHz @-46.62dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	0.009	0.15	0.009~0.15MHz @-63.47dBm	-33	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	0.15	30	0.15~30MHz @-65.81dBm	-23	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	30	1000	30~1000MHz @-59.05dBm	-13	PASS
Band5	Stand-Alone	15kHz	BPSK	20649	1@11	1000	10000	1000~10000MHz @-46.93dBm	-13	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	12@0	0.009	0.15	0.009~0.15MHz @-62.4dBm	-33	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	12@0	0.15	30	0.15~30MHz @-68.07dBm	-23	PASS
Band5	Stand-Alone	15kHz	QPSK	20401	12@0	30	1000	30~1000MHz @-59.14dBm	-13	PASS

Band5	Stand-Alone	15kHz	QPSK	20401	12@0	1000	10000	1000~10000MHz@-47.41dBm	-13	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	12@0	0.009	0.15	0.009~0.15MHz@-64.96dBm	-33	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	12@0	0.15	30	0.15~30MHz@-68.53dBm	-23	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	12@0	30	1000	30~1000MHz@-59.29dBm	-13	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	12@0	1000	10000	1000~10000MHz@-47.08dBm	-13	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	0.009	0.15	0.009~0.15MHz@-60.91dBm	-33	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	0.15	30	0.15~30MHz@-65.94dBm	-23	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	30	1000	30~1000MHz@-59.39dBm	-13	PASS
Band5	Stand-Alone	15kHz	QPSK	20649	12@0	1000	10000	1000~10000MHz@-46.95dBm	-13	PASS

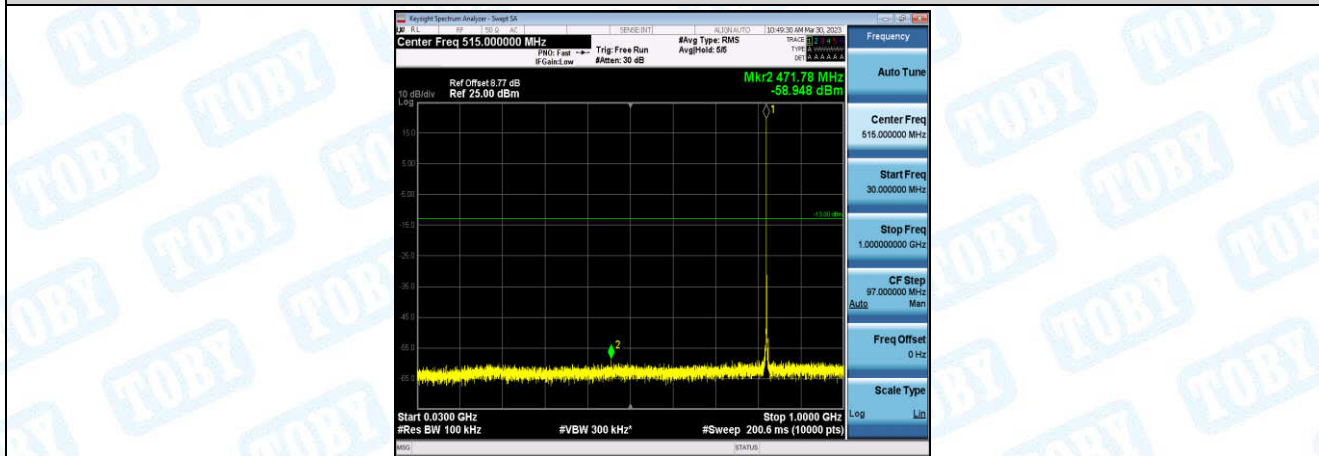
5.2 Test Graphs



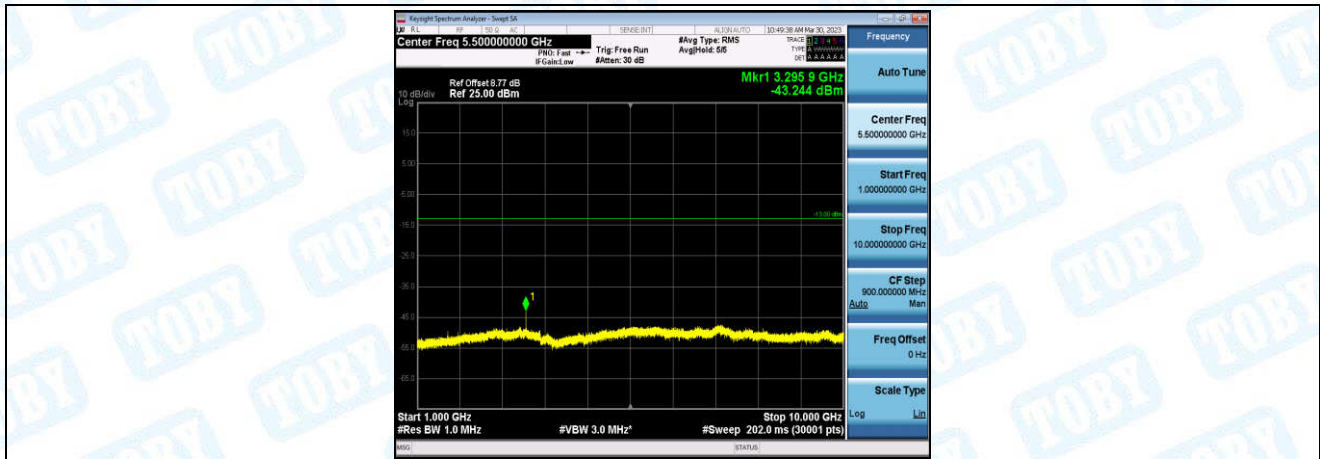
Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-62.26dBm--33-PASS



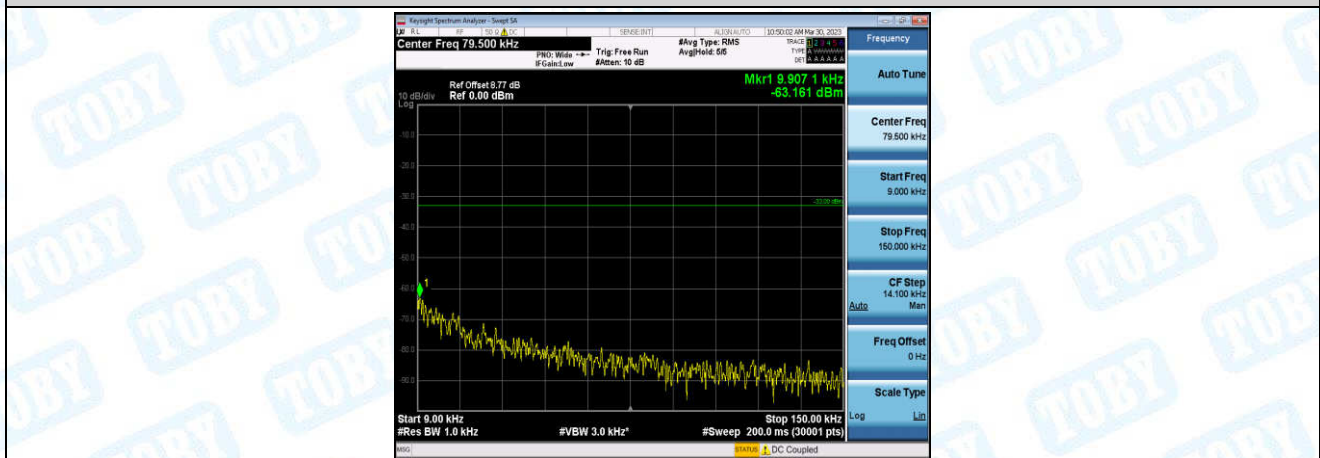
Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz-0.15-30-0.15~30MHz@-67.83dBm--23-PASS



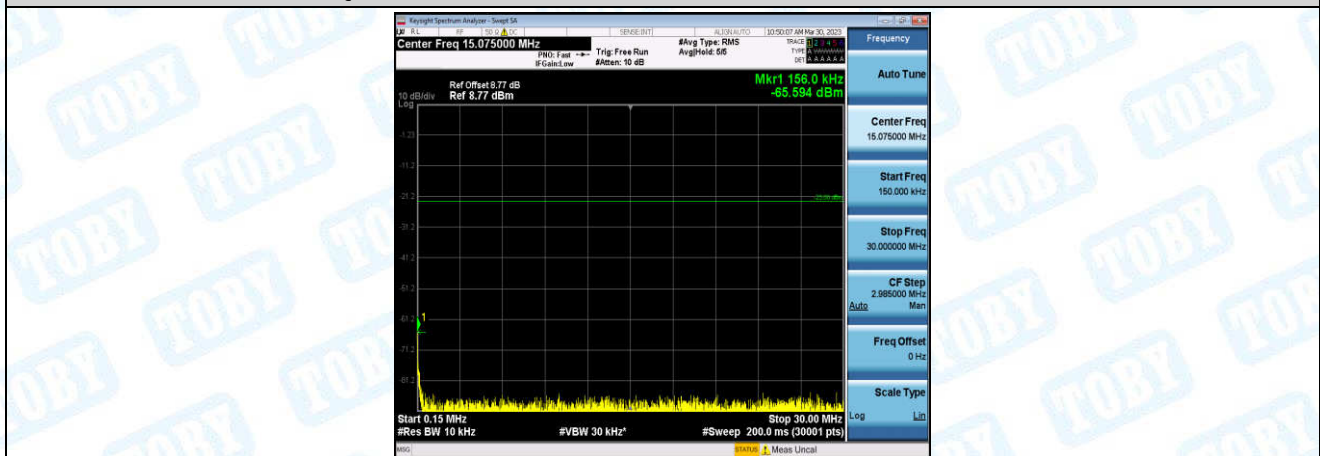
Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz-30-1000-30~1000MHz@-58.95dBm--13-PASS



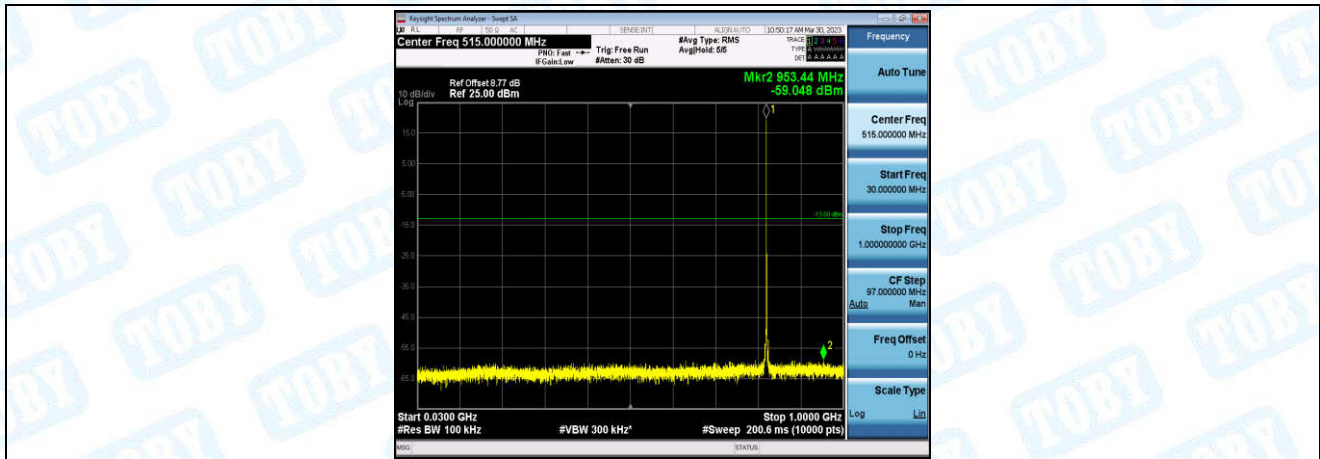
Band5-Stand-Alone-NaN-QPSK-20401-1@0-3.75kHz-1000-10000-1000~10000MHz@-43.24dBm--13-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-63.16dBm--33-PASS



Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz-0.15-30-0.15~30MHz@-65.59dBm--23-PASS

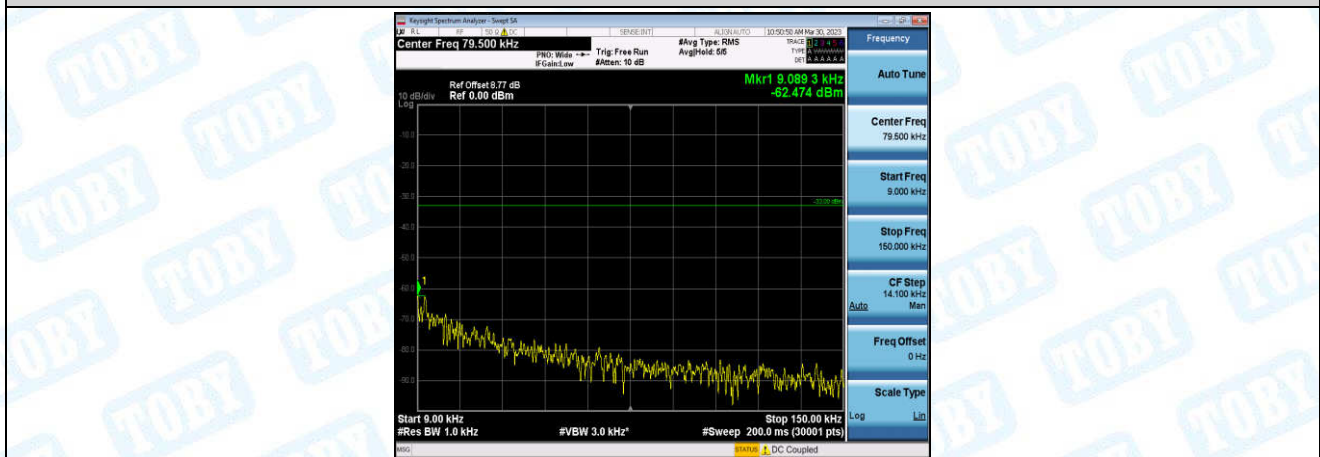


Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz-30-1000-30~1000MHz@-59.05dBm--13-PASS

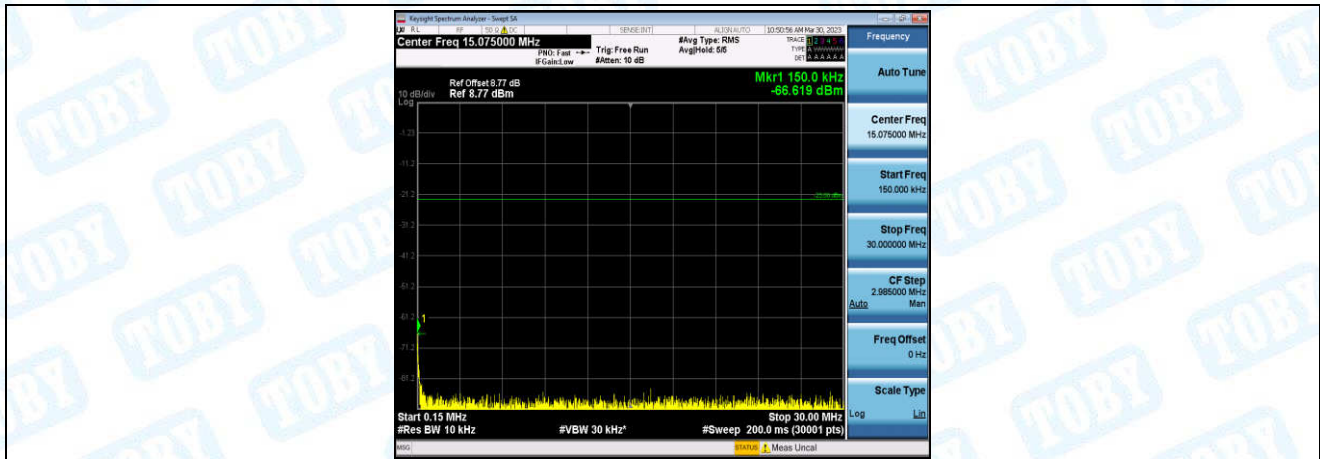


Band5-Stand-Alone-NaN-QPSK-20401-1@47-3.75kHz-1000-10000-1000~10000MHz@-44.93dBm--13-PAS

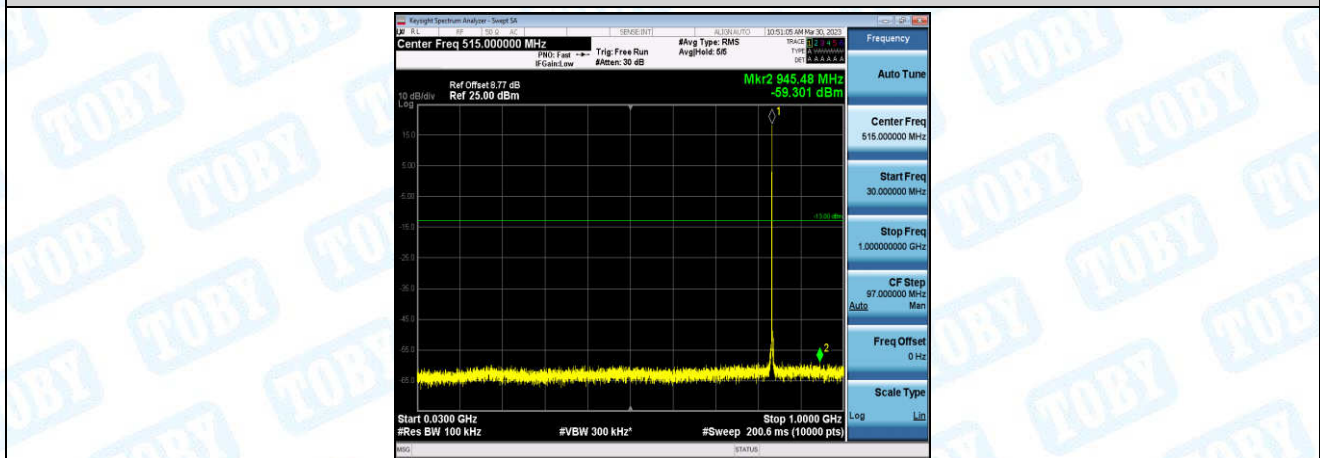
S



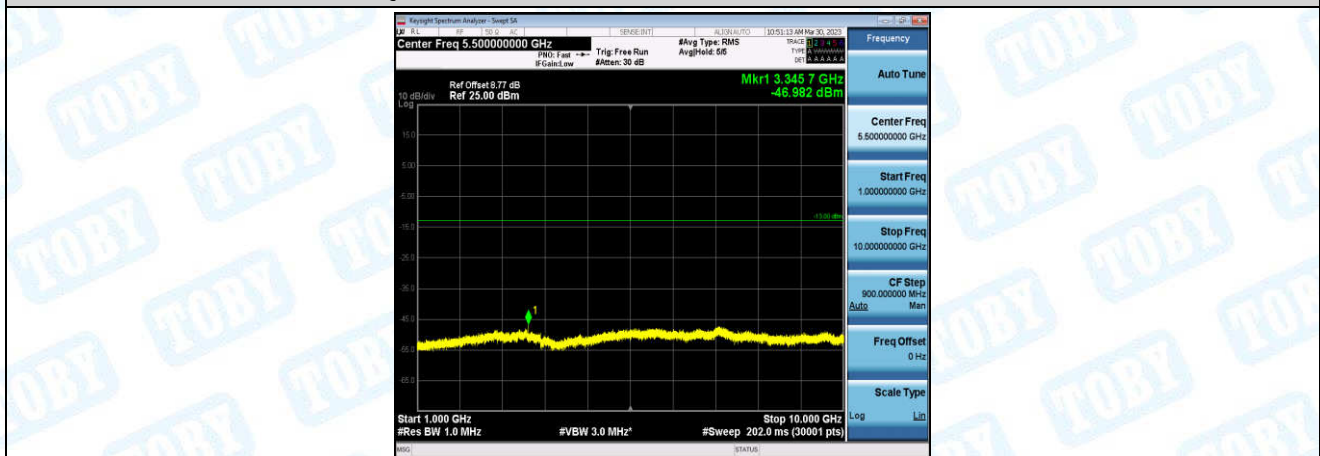
Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-62.47dBm--33-PASS



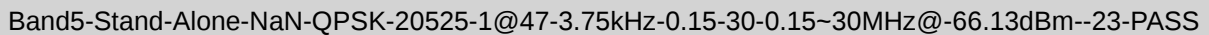
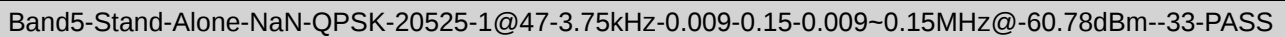
Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-0.15-30-0.15~30MHz@-66.62dBm--23-PASS



Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-30-1000-30~1000MHz@-59.3dBm--13-PASS



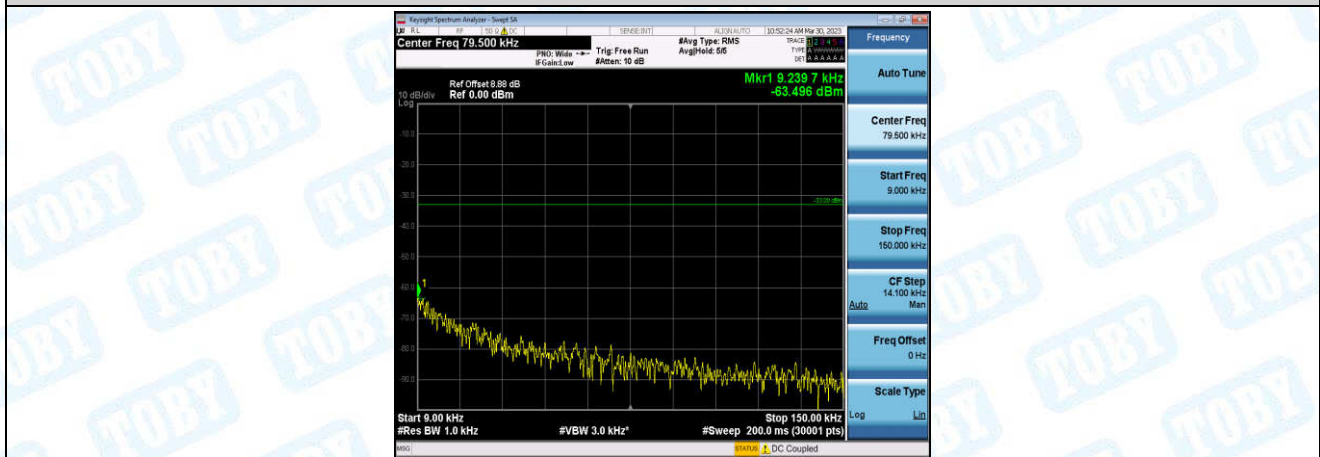
Band5-Stand-Alone-NaN-QPSK-20525-1@0-3.75kHz-1000-10000-1000~10000MHz@-46.98dBm--13-PASS



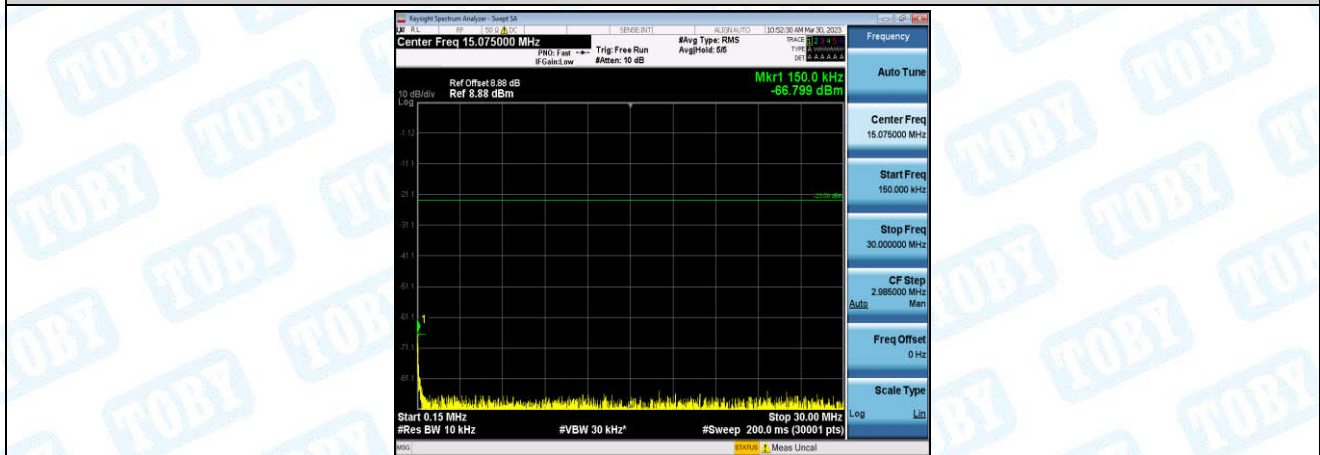


Band5-Stand-Alone-NaN-QPSK-20525-1@47-3.75kHz-1000-10000-1000~10000MHz@-46.44dBm--13-PAS

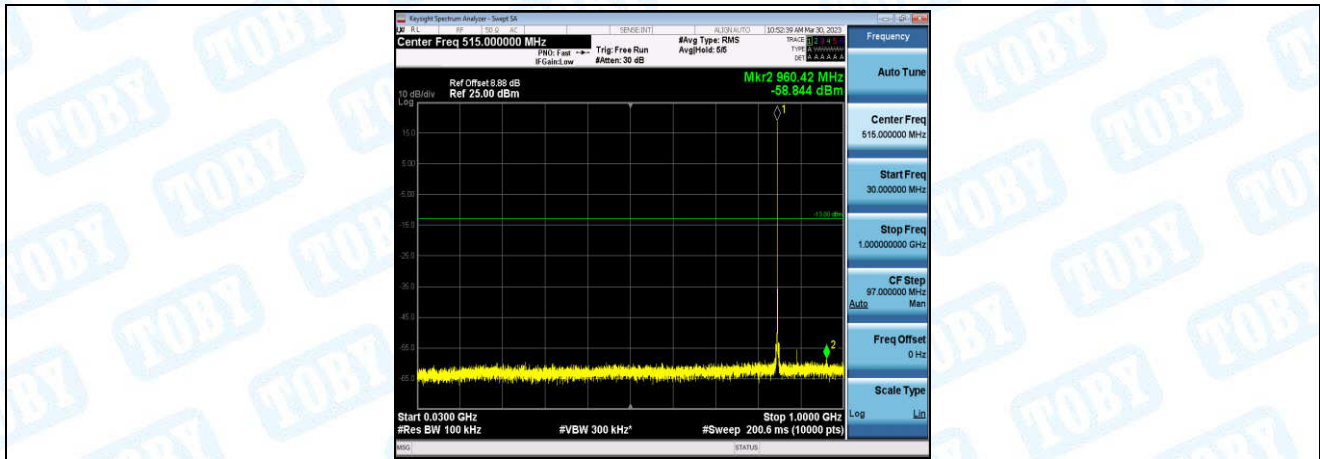
S



Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-63.5dBm--33-PASS



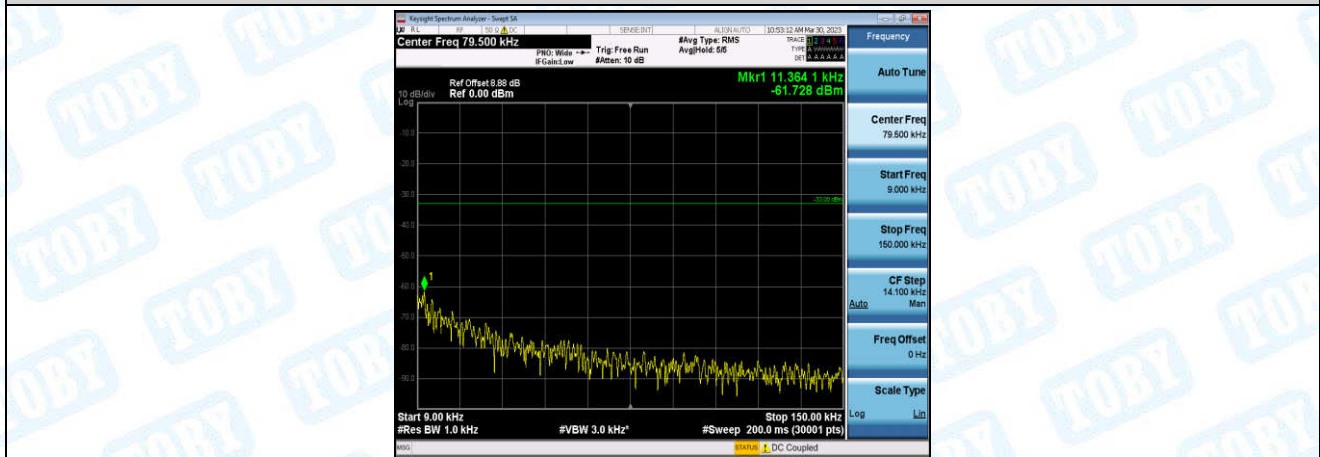
Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-0.15-30-0.15~30MHz@-66.8dBm--23-PASS



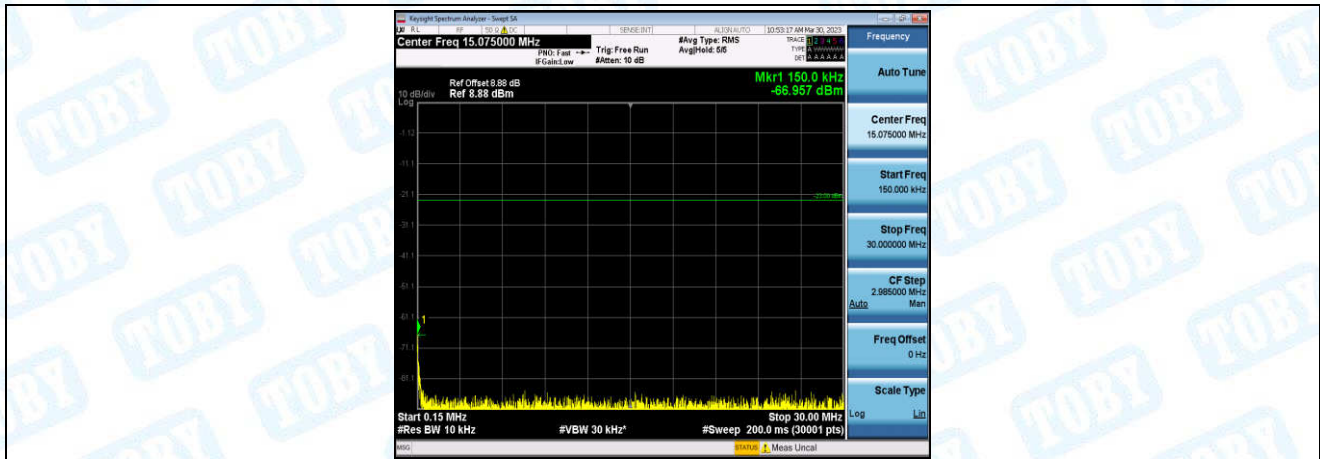
Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-30-1000-30~1000MHz@-58.84dBm--13-PASS



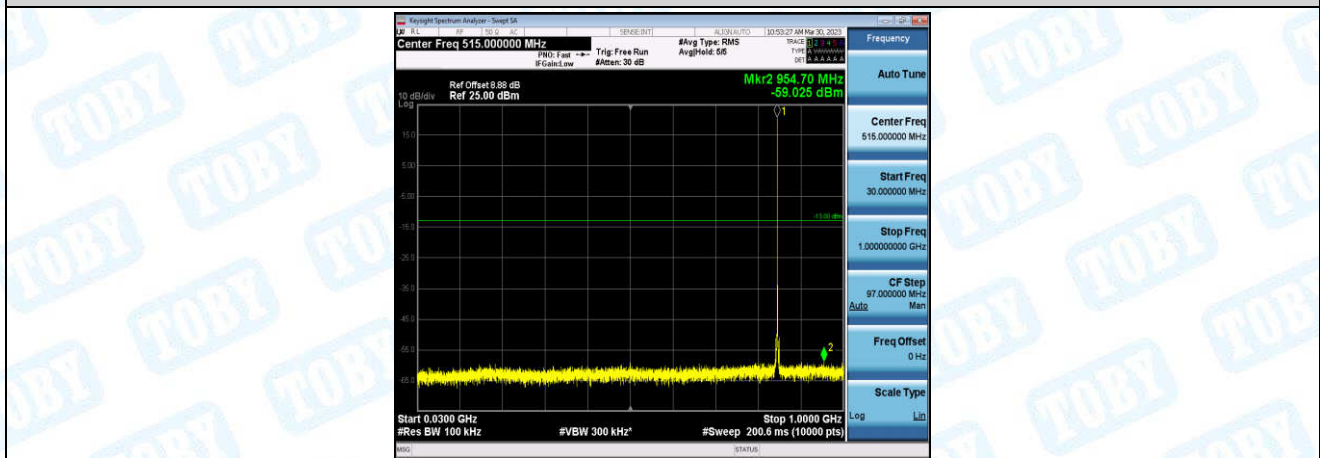
Band5-Stand-Alone-NaN-QPSK-20649-1@0-3.75kHz-1000-10000-1000~10000MHz@-47.17dBm--13-PASS



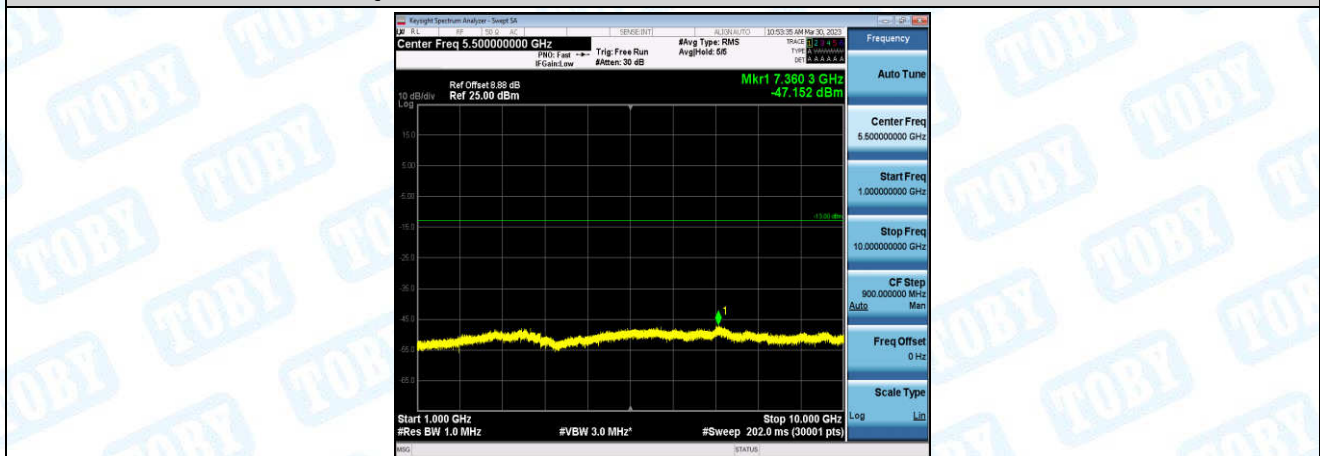
Band5-Stand-Alone-NaN-QPSK-20649-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.73dBm--33-PASS



Band5-Stand-Alone-NaN-QPSK-20649-1@47-3.75kHz-0.15-30-0.15~30MHz@-66.96dBm--23-PASS

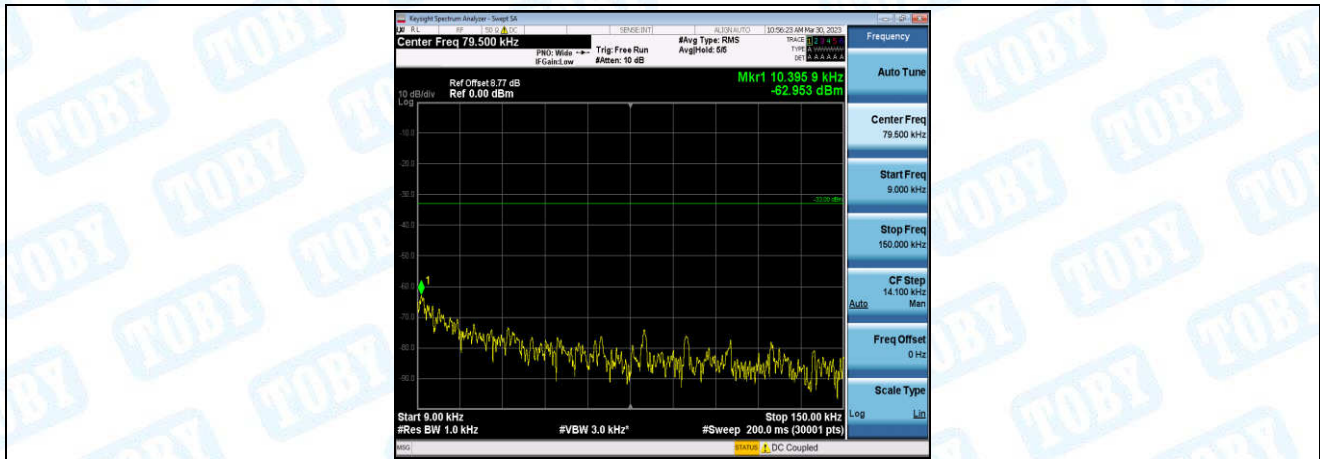


Band5-Stand-Alone-NaN-QPSK-20649-1@47-3.75kHz-30-1000-30~1000MHz@-59.03dBm--13-PASS

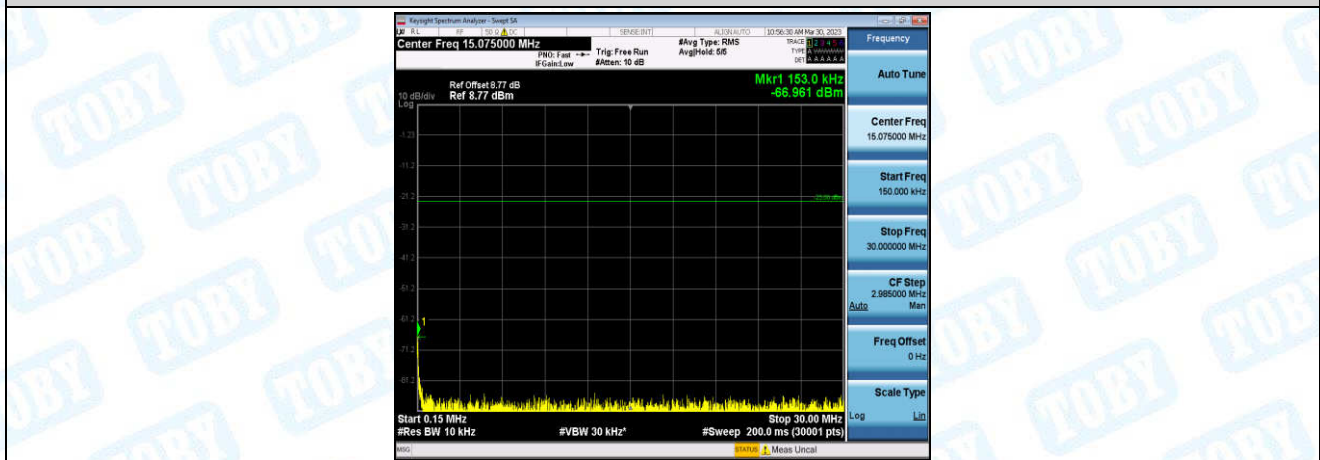


Band5-Stand-Alone-NaN-QPSK-20649-1@47-3.75kHz-1000-10000-1000~10000MHz@-47.15dBm--13-PAS

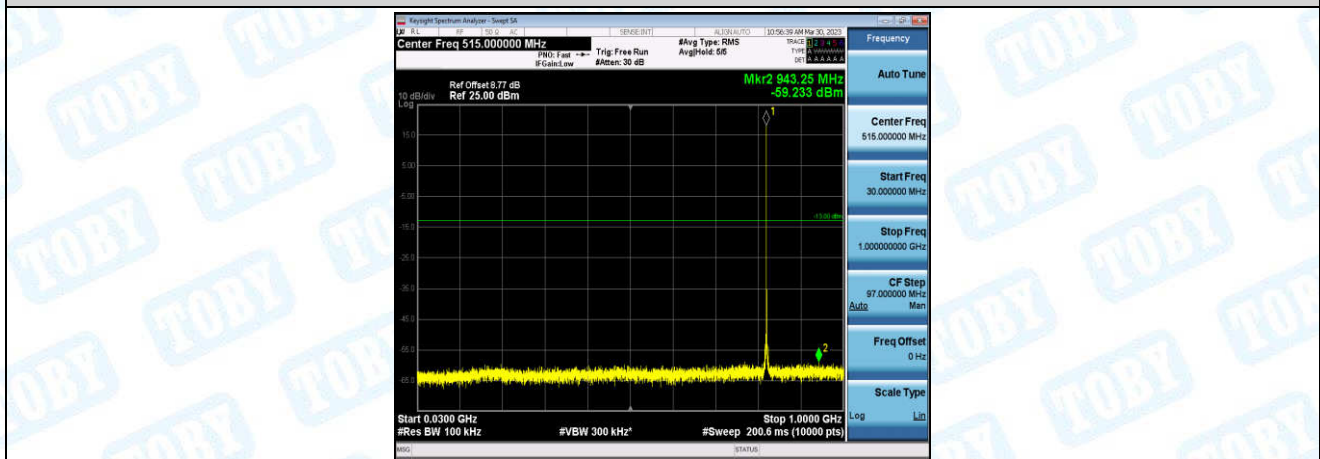
S



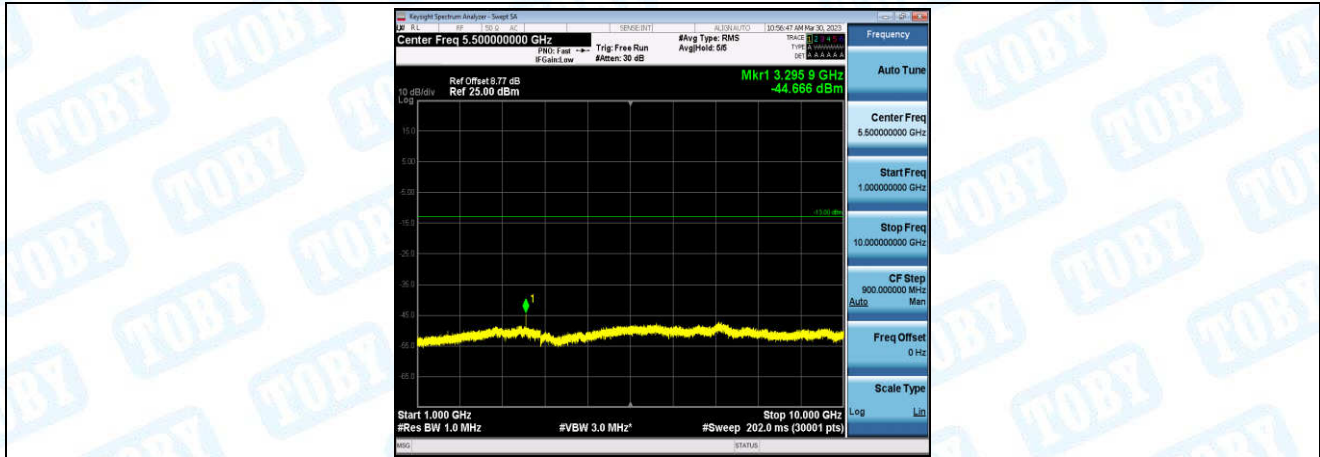
Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.95dBm--33-PASS



Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-0.15-30-0.15~30MHz@-66.96dBm--23-PASS



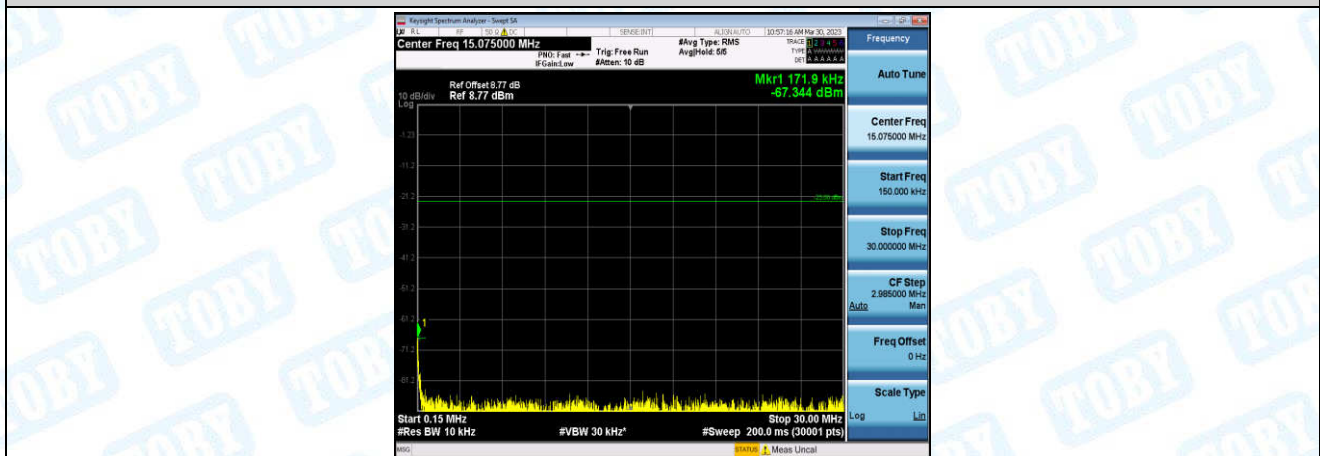
Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-30-1000-30~1000MHz@-59.23dBm--13-PASS



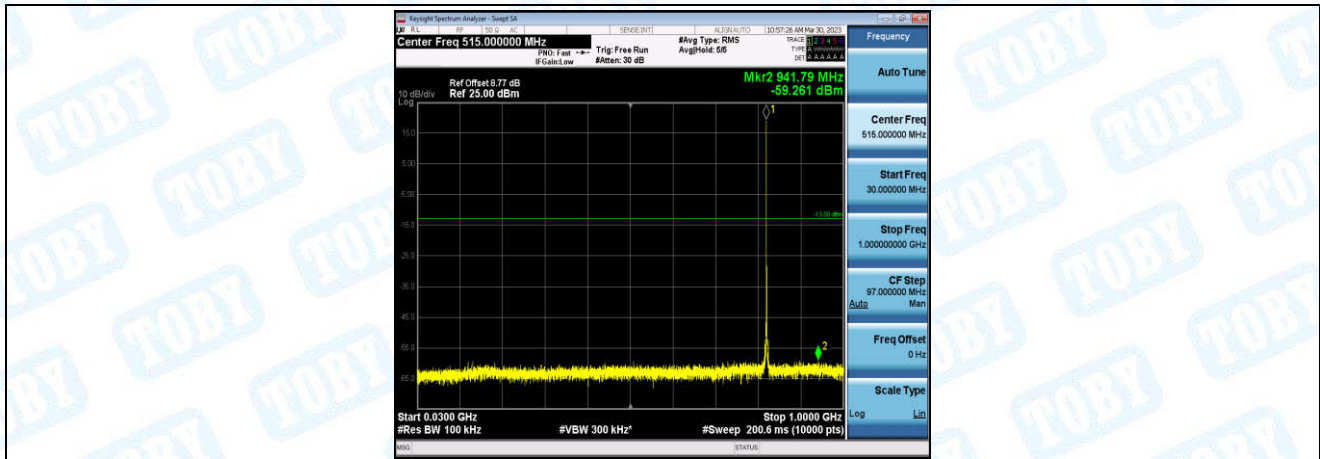
Band5-Stand-Alone-NaN-BPSK-20401-1@0-15kHz-1000-10000-1000~10000MHz@-44.67dBm--13-PASS



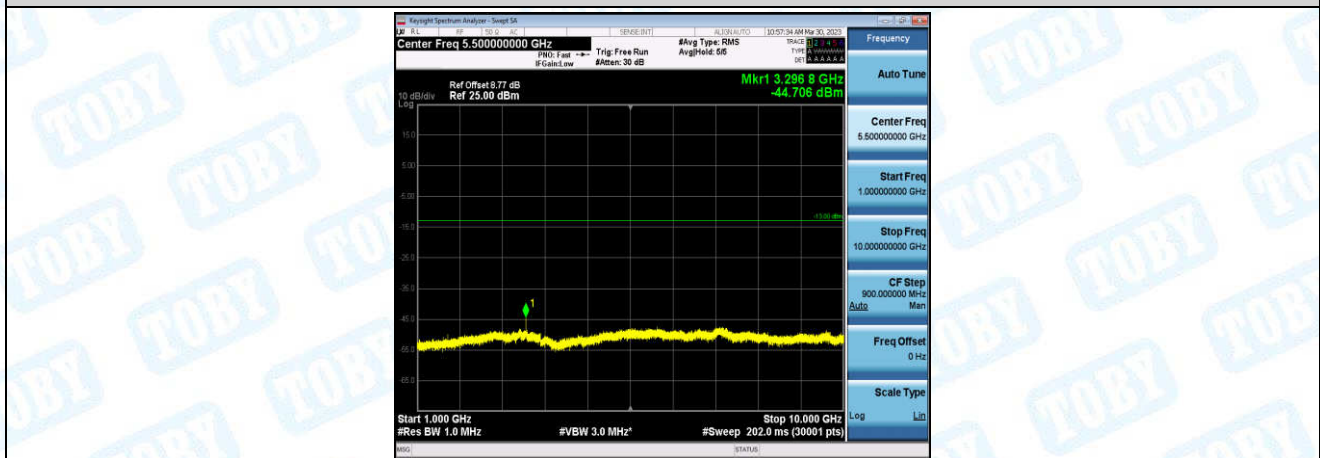
Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-63.99dBm--33-PASS



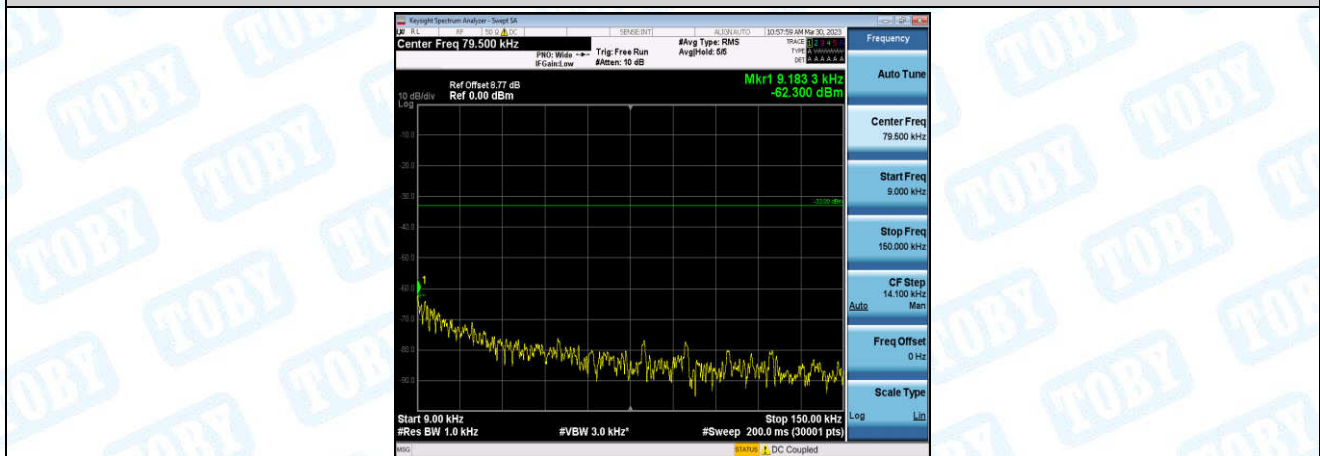
Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz-0.15-30-0.15~30MHz@-67.34dBm--23-PASS



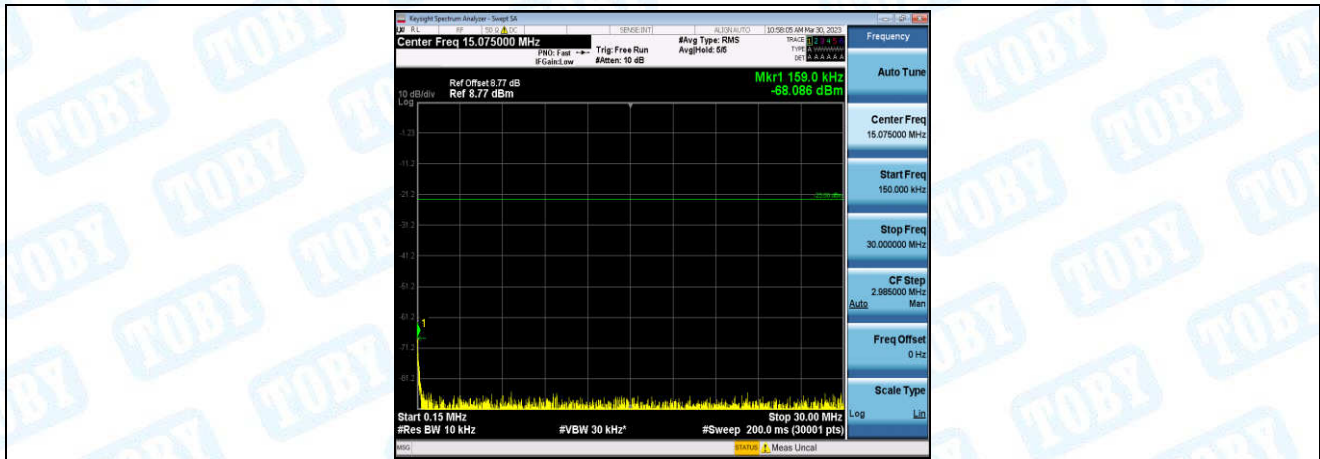
Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz-30-1000-30~1000MHz@-59.26dBm--13-PASS



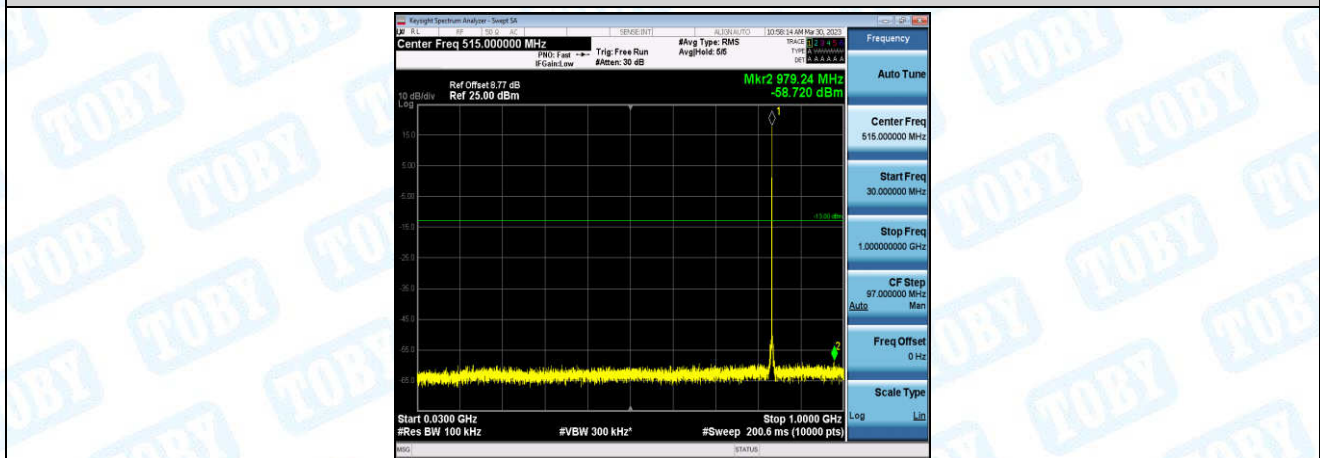
Band5-Stand-Alone-NaN-BPSK-20401-1@11-15kHz-1000-10000-1000~1000MHz@-44.71dBm--13-PASS



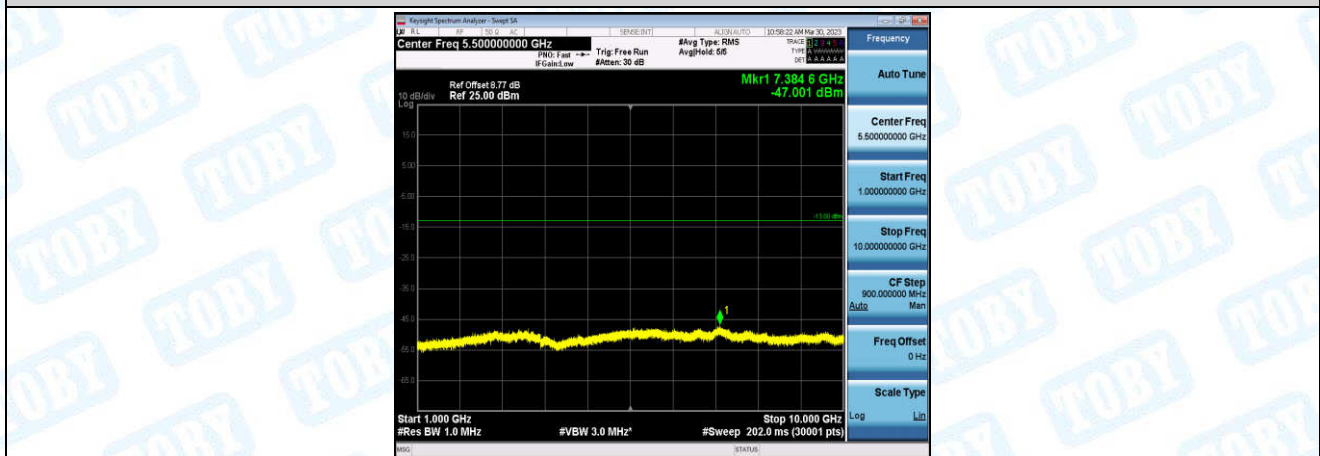
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.3dBm--33-PASS



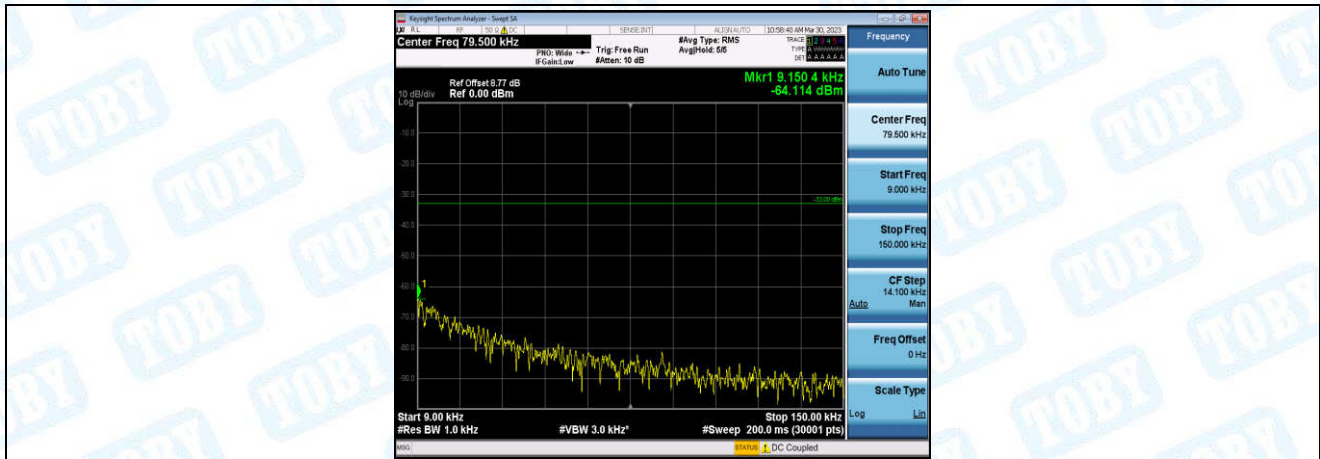
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-0.15-30-0.15~30MHz@-68.09dBm--23-PASS



Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-30-1000-30~1000MHz@-58.72dBm--13-PASS



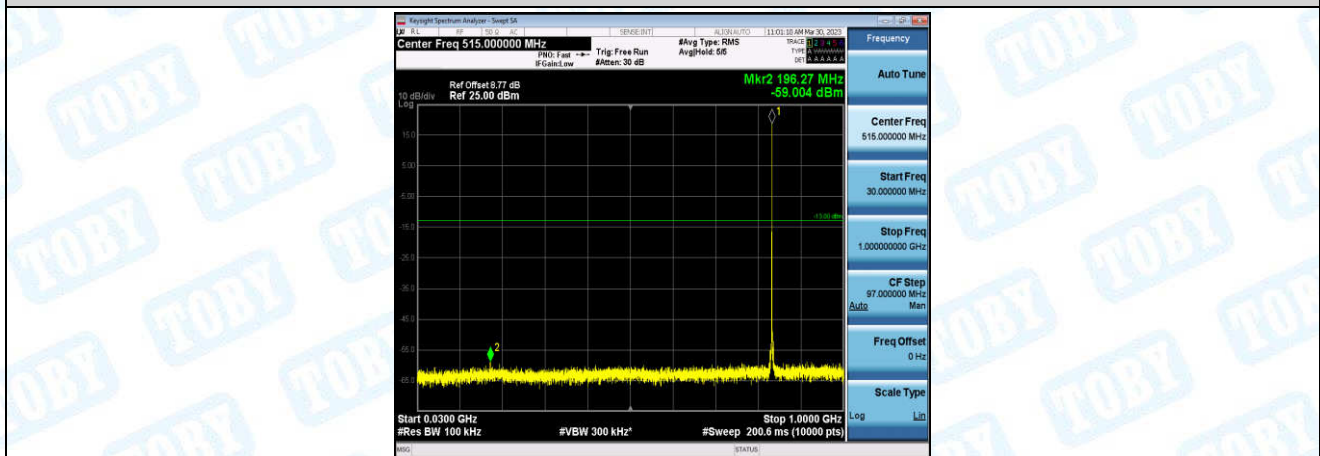
Band5-Stand-Alone-NaN-BPSK-20525-1@0-15kHz-1000-10000-1000~10000MHz@-47dBm--13-PASS



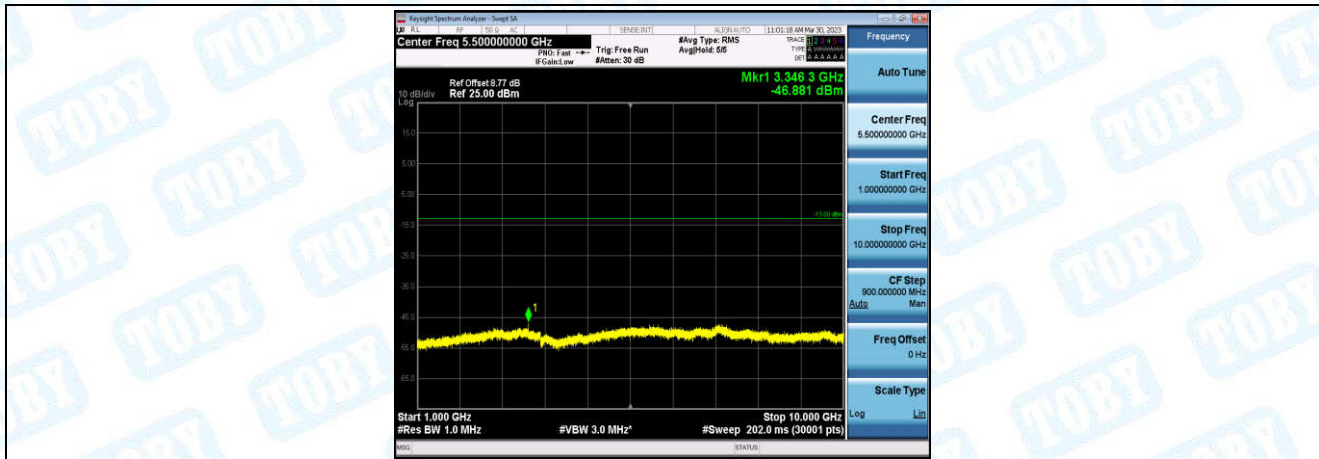
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-0.009-0.15-0.009-0.15MHz@-64.11dBm--33-PASS



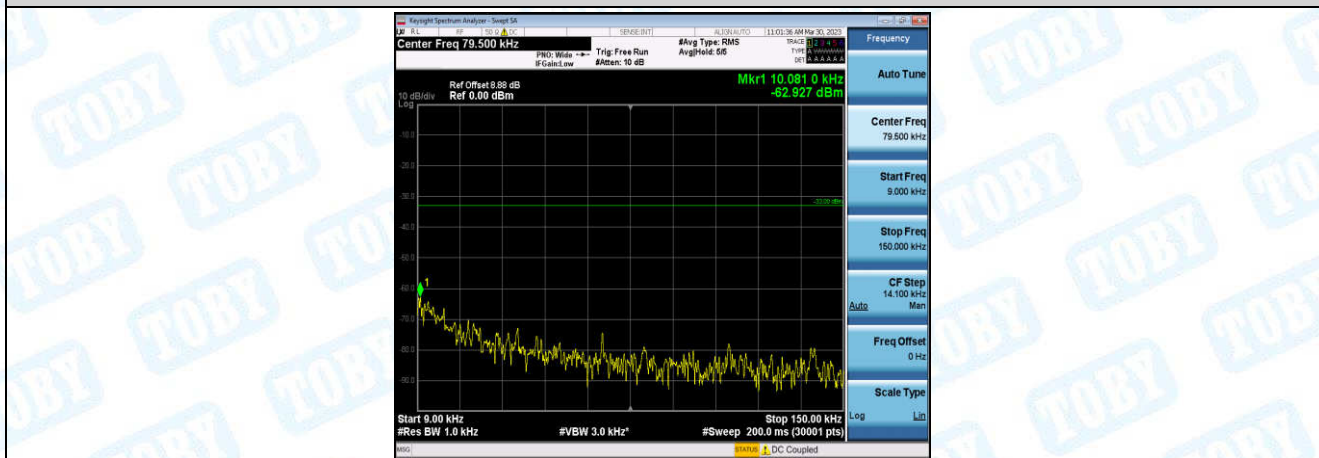
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-0.15-30-0.15~30MHz@-68.72dBm--23-PASS



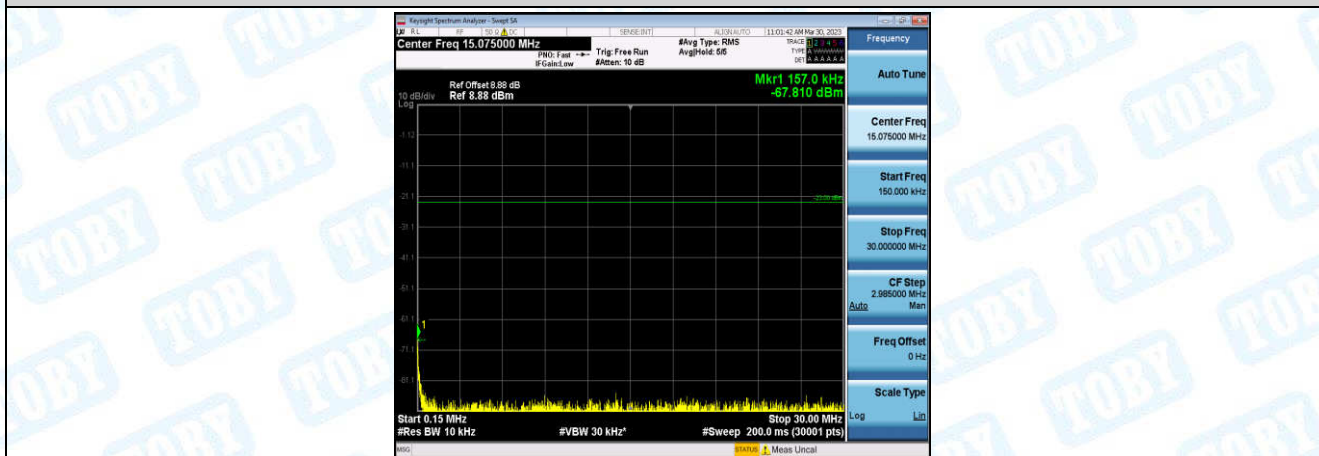
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-30-1000-30~1000MHz@-59dBm--13-PASS



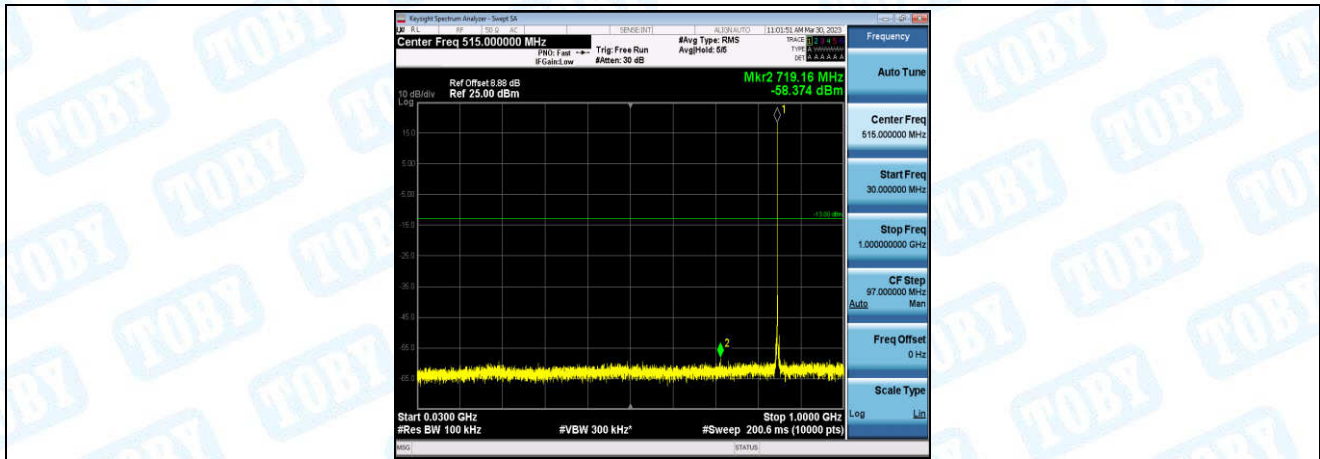
Band5-Stand-Alone-NaN-BPSK-20525-1@11-15kHz-1000-10000-1000~10000MHz@-46.88dBm--13-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.93dBm--33-PASS



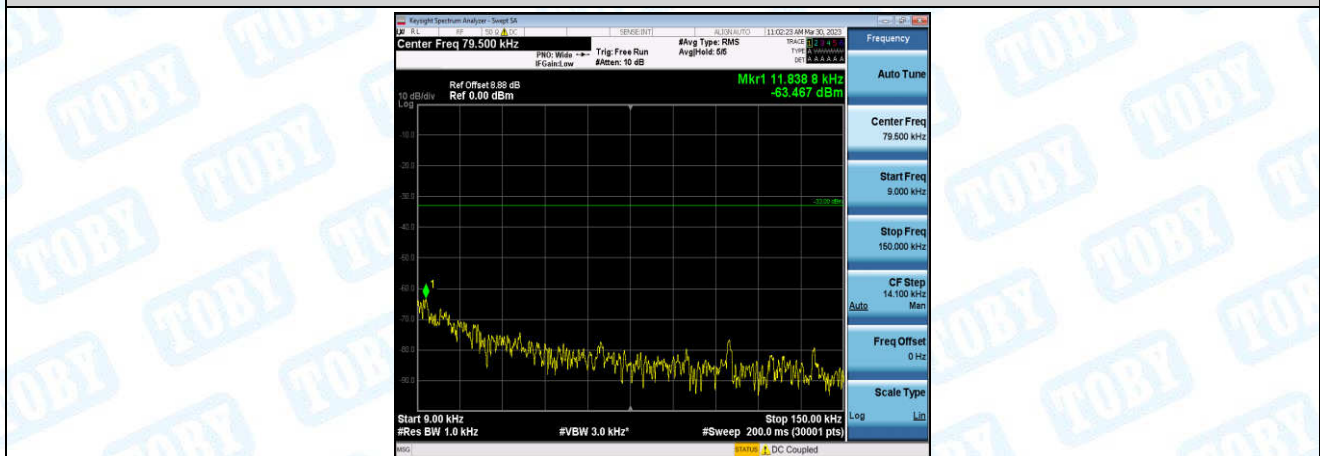
Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-0.15-30-0.15~30MHz@-67.81dBm--23-PASS



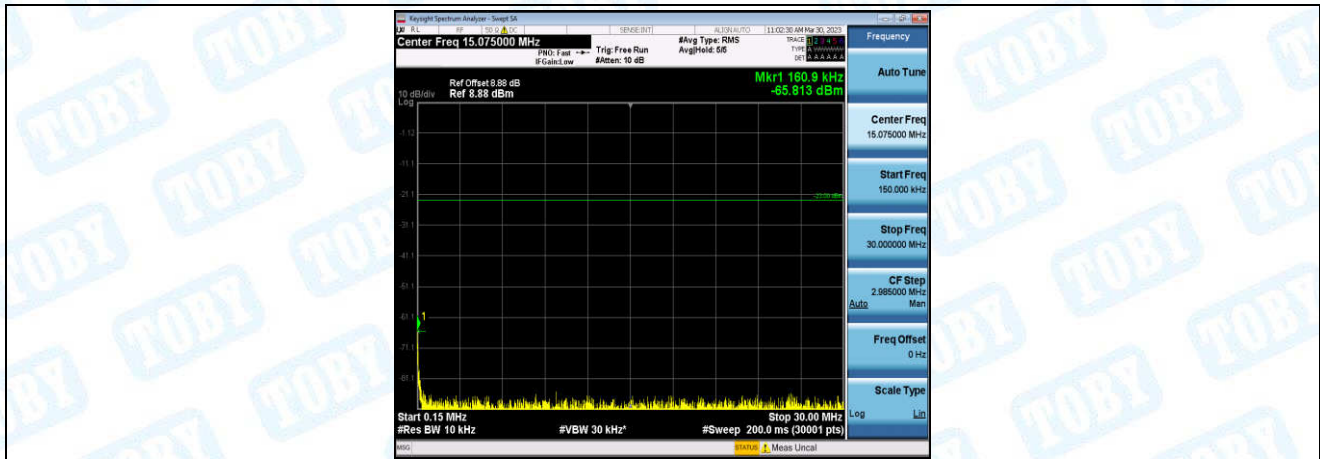
Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-30-1000-30~1000MHz@-58.37dBm--13-PASS



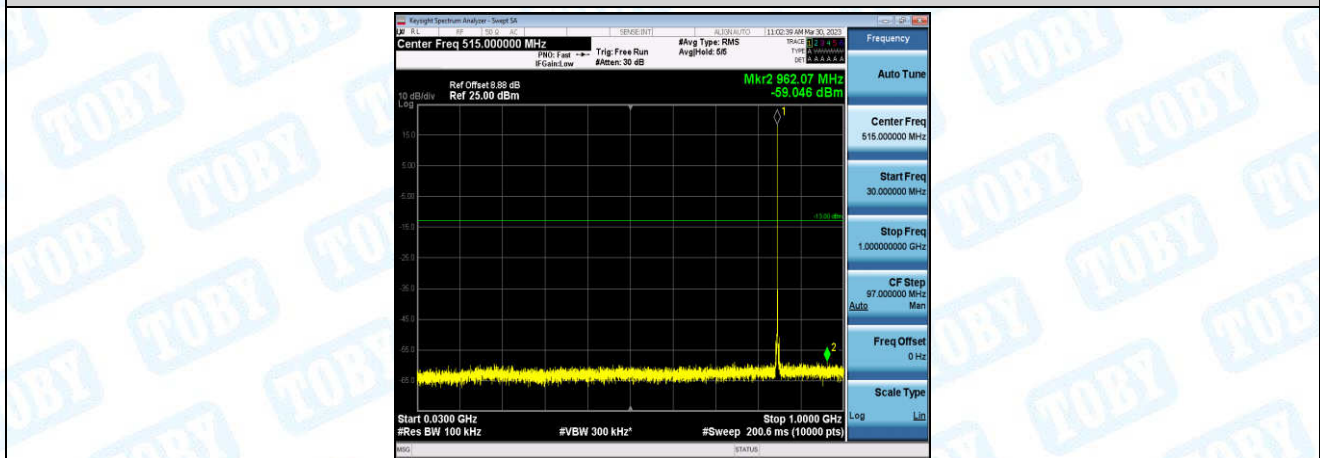
Band5-Stand-Alone-NaN-BPSK-20649-1@0-15kHz-1000-10000-1000~10000MHz@-46.62dBm--13-PASS



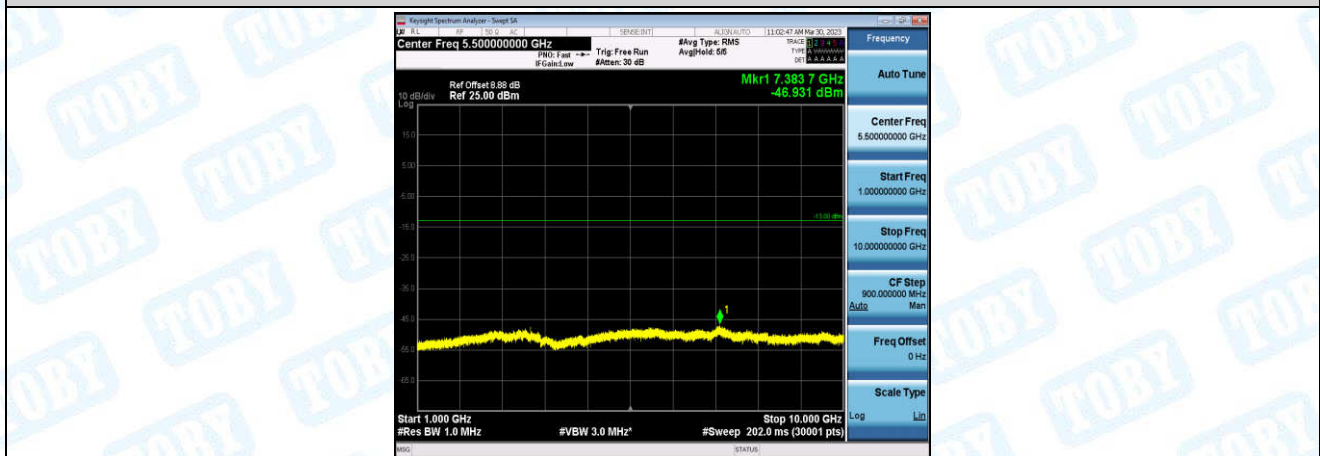
Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-63.47dBm--33-PASS



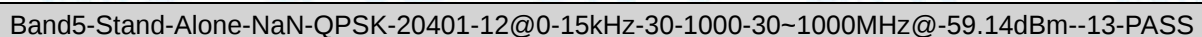
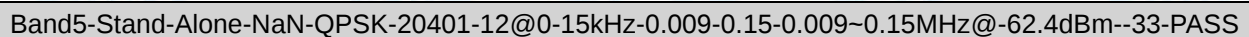
Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz-0.15-30-0.15-30MHz@-65.81dBm--23-PASS



Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz-30-1000-30~1000MHz@-59.05dBm--13-PASS

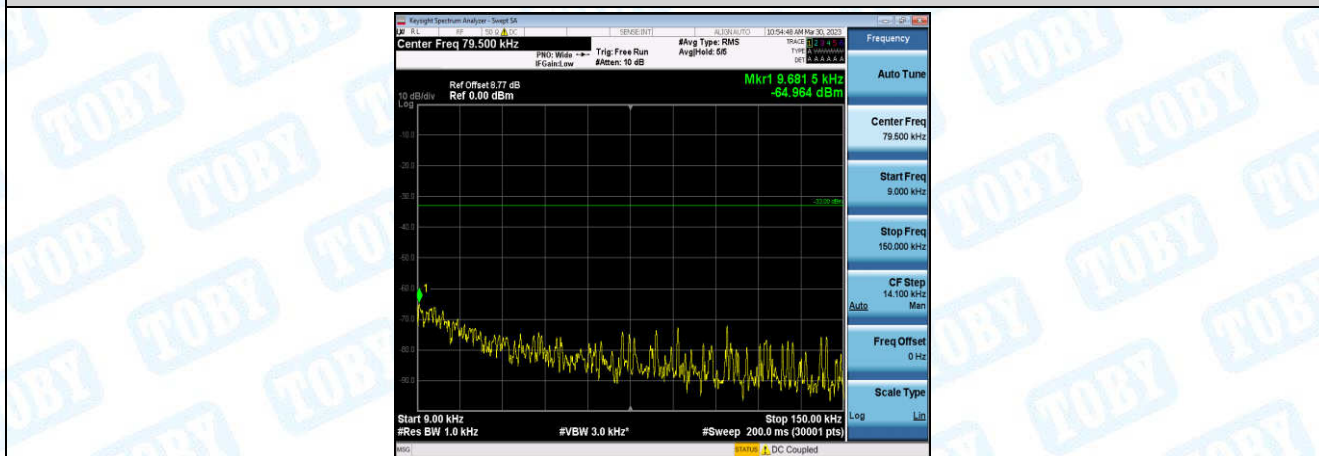


Band5-Stand-Alone-NaN-BPSK-20649-1@11-15kHz-1000-10000-1000~10000MHz@-46.93dBm--13-PASS

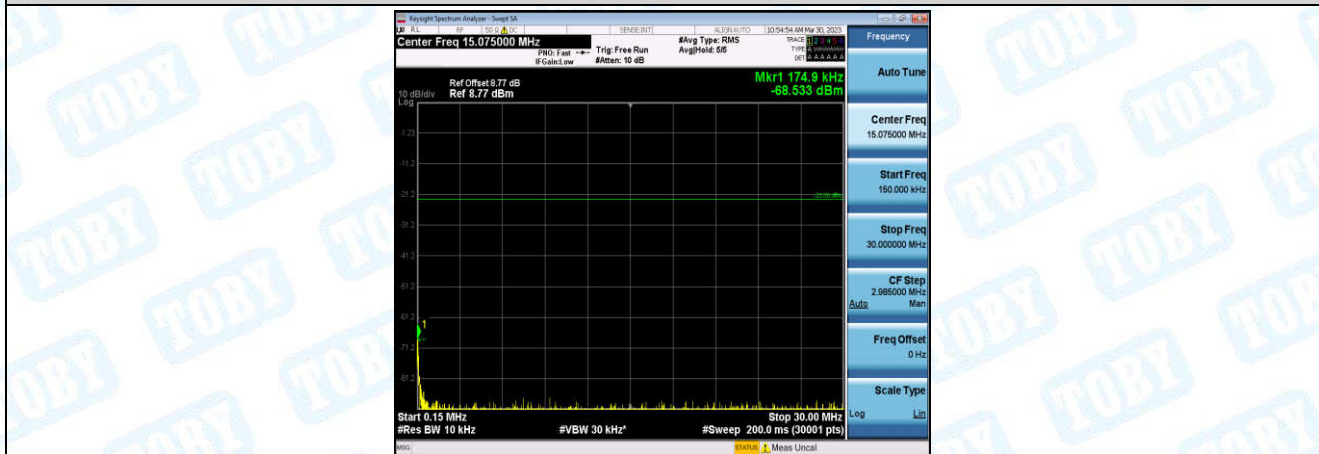




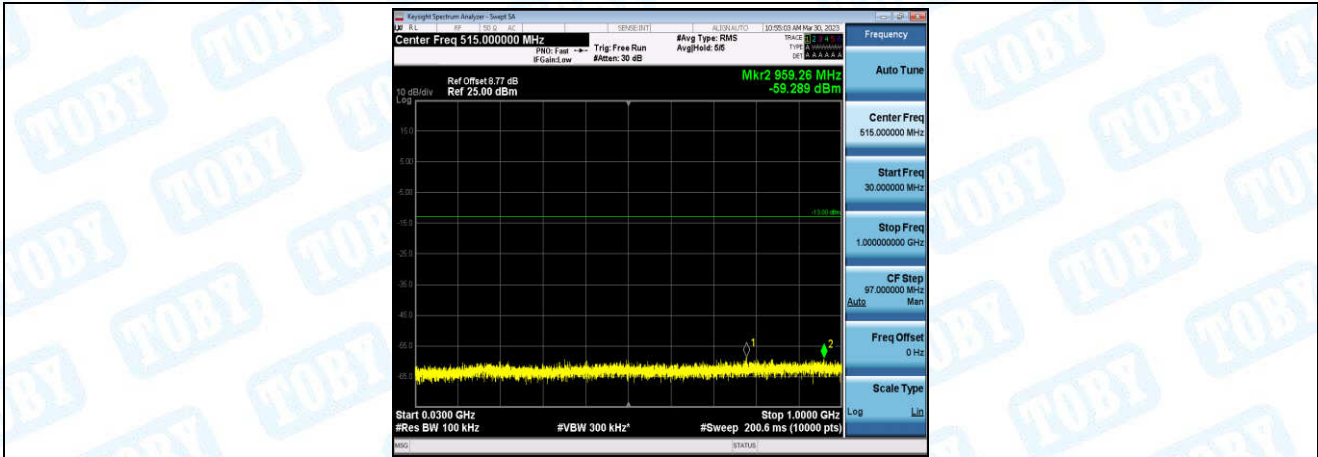
Band5-Stand-Alone-NaN-QPSK-20401-12@0-15kHz-1000-10000-1000~10000MHz@-47.41dBm--13-PASS



Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-64.96dBm--33-PASS



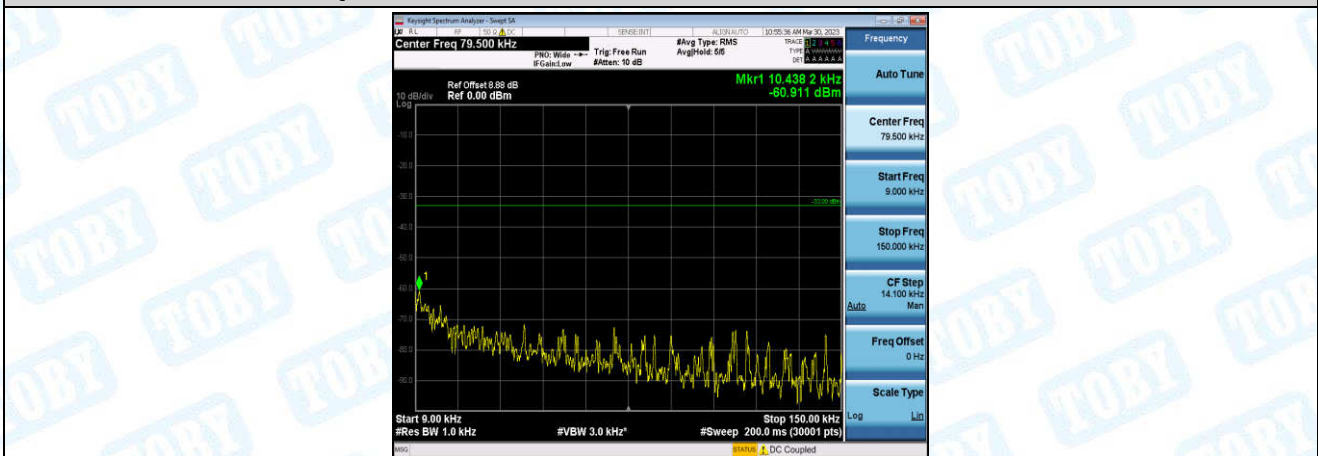
Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-0.15-30-0.15~30MHz@-68.53dBm--23-PASS



Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-30-1000-30~1000MHz@-59.29dBm--13-PASS



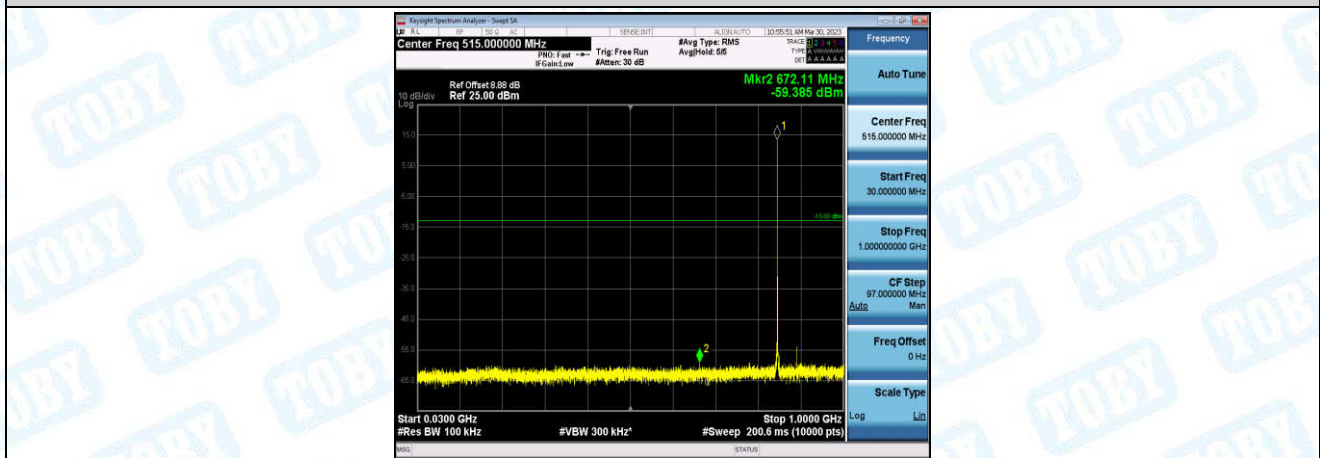
Band5-Stand-Alone-NaN-QPSK-20525-12@0-15kHz-1000-10000-1000~1000MHz@-47.08dBm--13-PASS



Band5-Stand-Alone-NaN-QPSK-20649-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.91dBm--33-PASS



Band5-Stand-Alone-Na-N-QPSK-20649-12@0-15kHz-0.15-30-0.15~30MHz@-65.94dBm--23-PASS



Band5-Stand-Alone-Na-N-QPSK-20649-12@0-15kHz-30-1000-30~1000MHz@-59.39dBm--13-PASS



Band5-Stand-Alone-Na-N-QPSK-20649-12@0-15kHz-1000-10000-1000~10000MHz@-46.95dBm--13-PASS

6: Frequency Stability for NB1

6.1 Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	VH	NT	3.75	0.004483	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	VL	NT	-2.59	-0.003096	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	VN	NT	16.80	0.020084	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	VH	NT	12.70	0.015182	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	VL	NT	8.13	0.009719	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	VN	NT	-4.65	-0.005559	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	VH	NT	6.39	0.007639	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	VL	NT	-4.22	-0.005045	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	VN	NT	-5.60	-0.006695	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	VH	NT	-12.96	-0.015493	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	VL	NT	-13.33	-0.015935	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	VN	NT	-13.81	-0.016509	±2.5	PASS

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	60	-1.63	-0.001949	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	-20	16.77	0.020048	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	-10	1.57	0.001877	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	0	14.55	0.017394	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	10	-1.88	-0.002247	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	20	3.17	0.003790	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	30	13.20	0.015780	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	40	17.03	0.020359	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@0	NV	-30	12.05	0.014405	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	30	12.92	0.015445	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	20	9.42	0.011261	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	10	-7.33	-0.008763	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	0	11.21	0.013401	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	-10	6.38	0.007627	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	40	-6.32	-0.007555	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	-30	-4.78	-0.005714	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	60	9.67	0.011560	±2.5	PASS
Band5	Stand-Alone	3.75kHz	QPSK	20525	1@47	NV	-20	-6.35	-0.007591	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	60	8.52	0.010185	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	-20	-14.90	-0.017812	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	-10	-13.06	-0.015613	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	0	8.78	0.010496	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	10	8.77	0.010484	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	20	10.25	0.012253	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	30	-6.88	-0.008225	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	40	6.84	0.008177	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@0	NV	-30	-16.03	-0.019163	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	40	-18.38	-0.021973	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	30	4.71	0.005631	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	20	3.53	0.004220	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	10	-13.54	-0.016186	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	0	9.69	0.011584	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	-10	8.38	0.010018	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	-30	-6.80	-0.008129	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	60	-18.33	-0.021913	±2.5	PASS
Band5	Stand-Alone	15kHz	QPSK	20525	1@11	NV	-20	7.00	0.008368	±2.5	PASS

-----END OF THE REPORT-----