

Appendix for 15.247

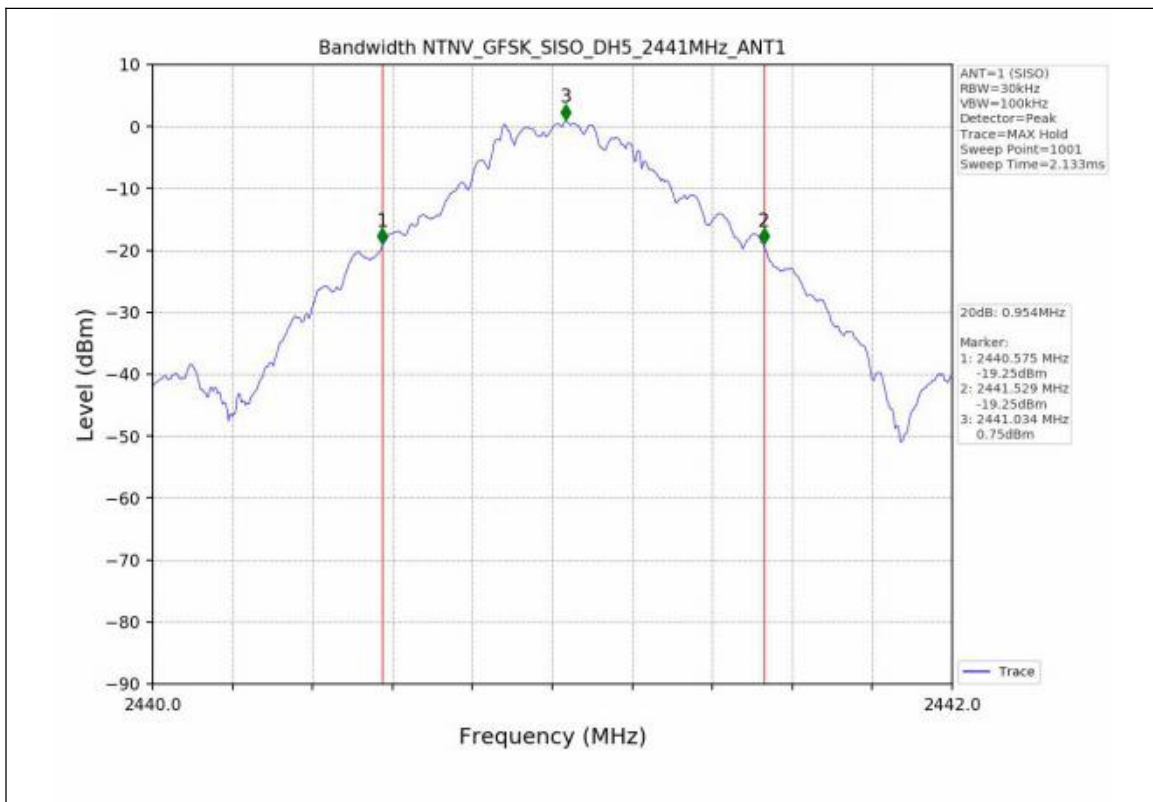
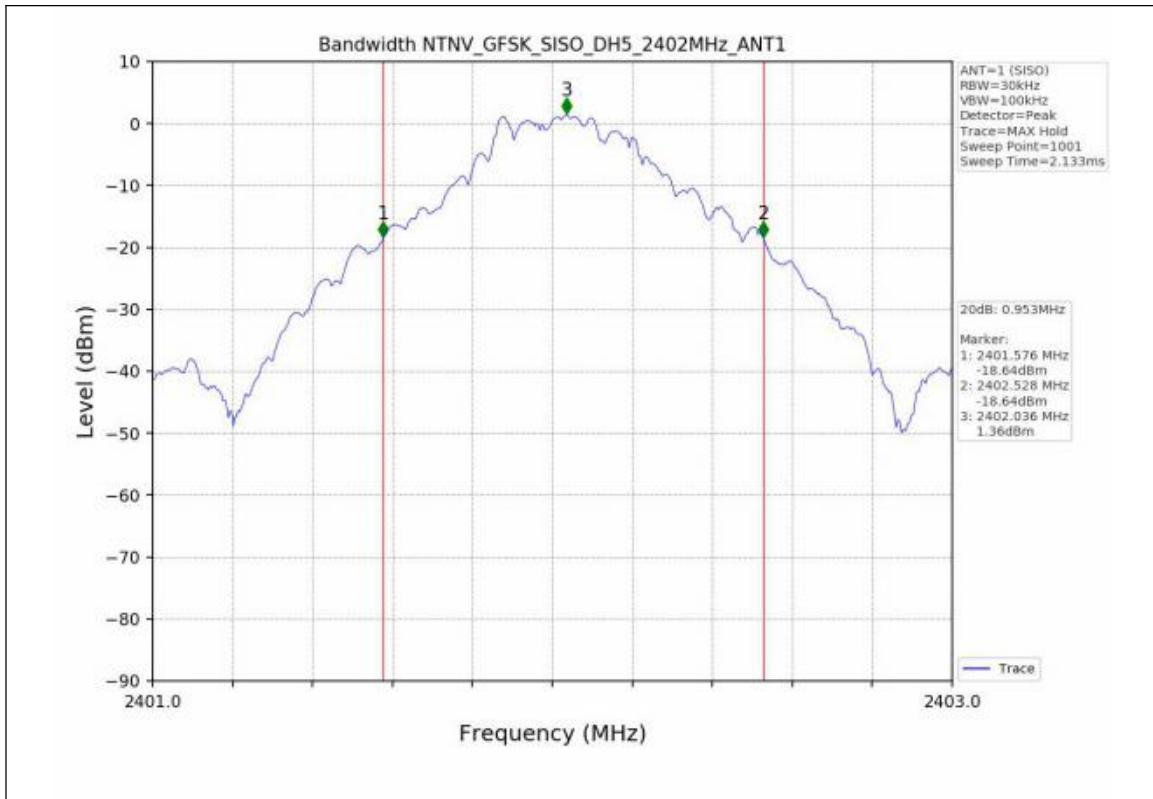
1. Bandwidth

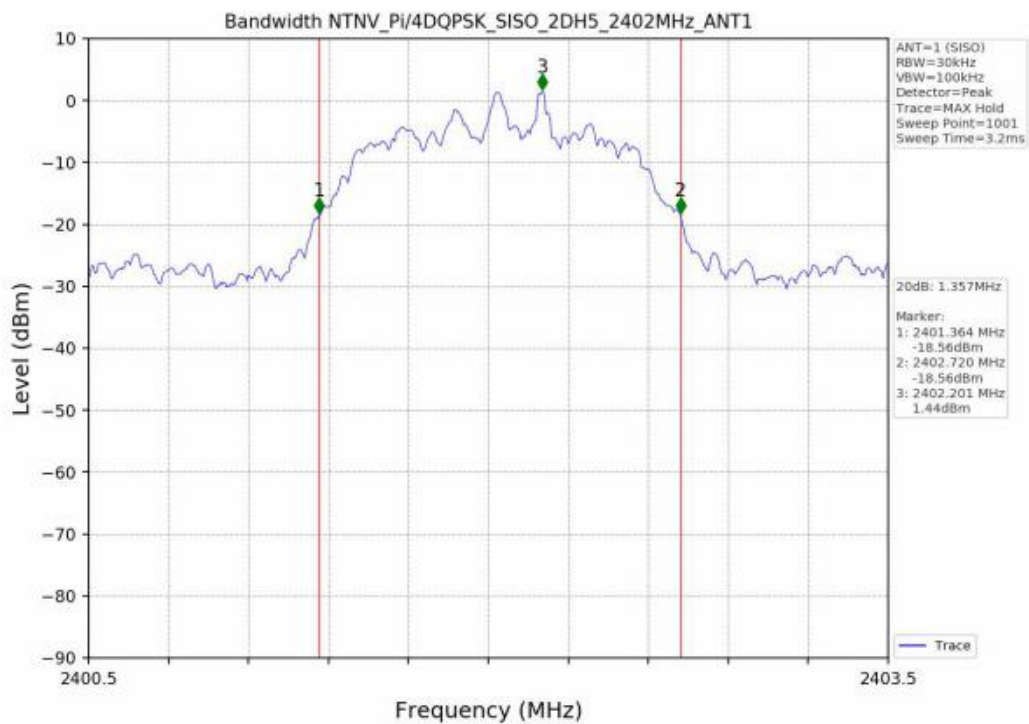
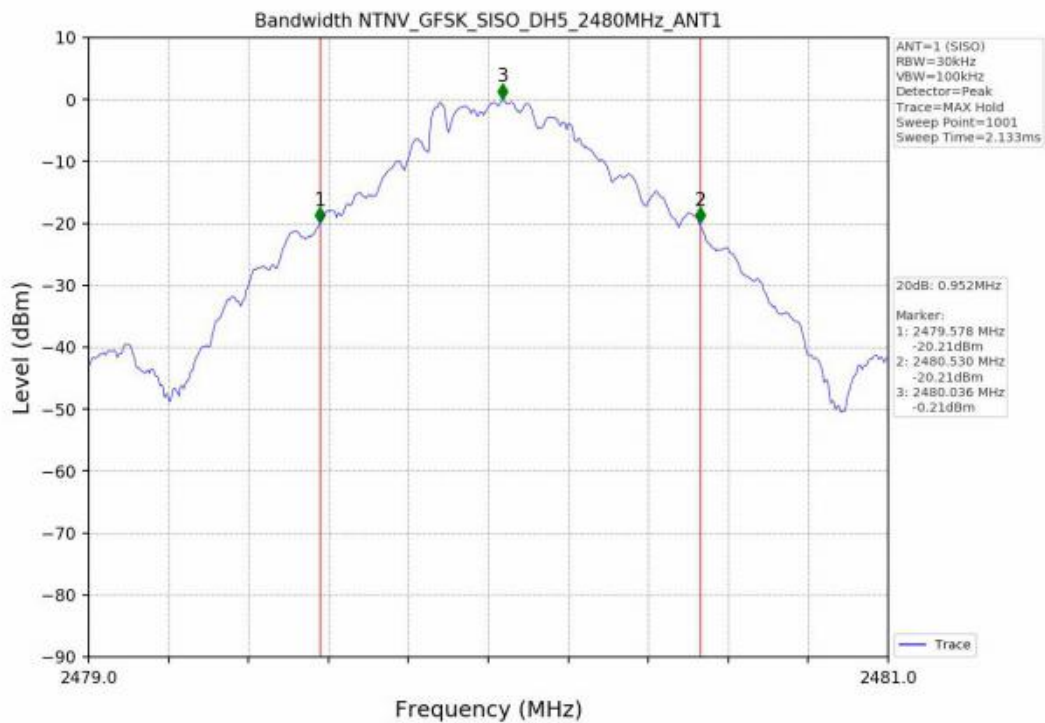
1.1 Test Result

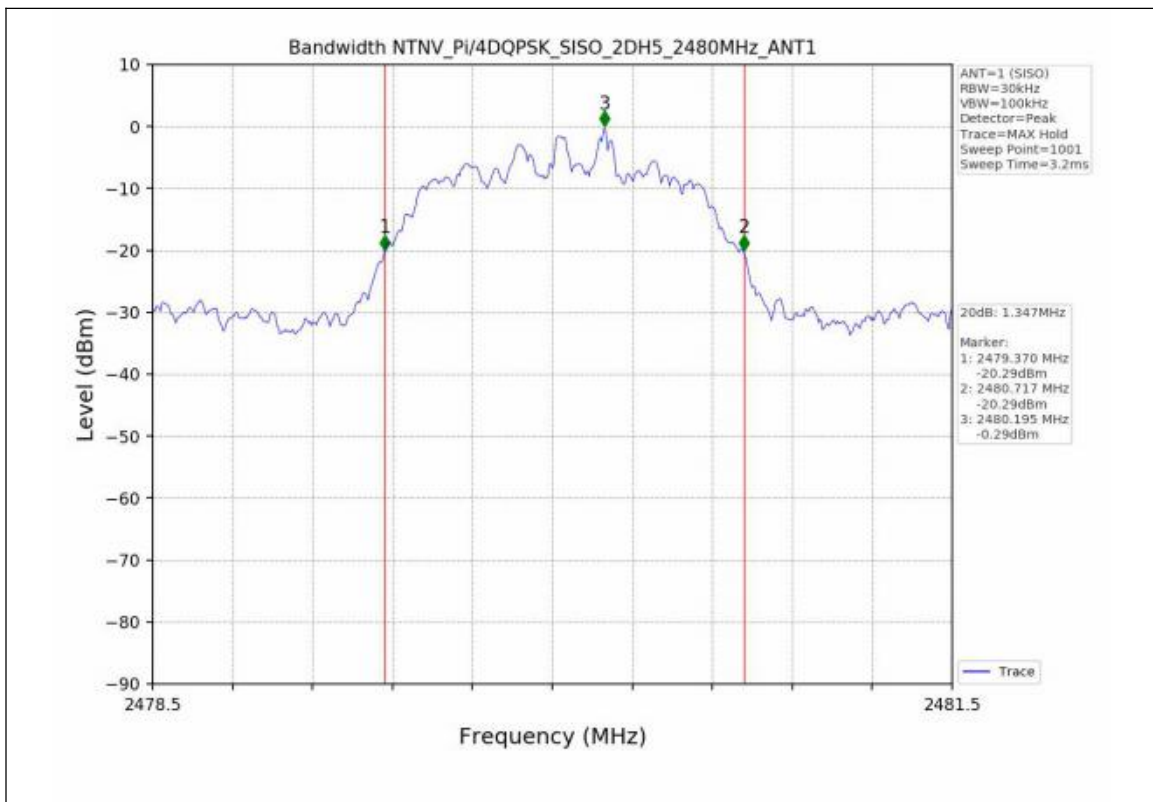
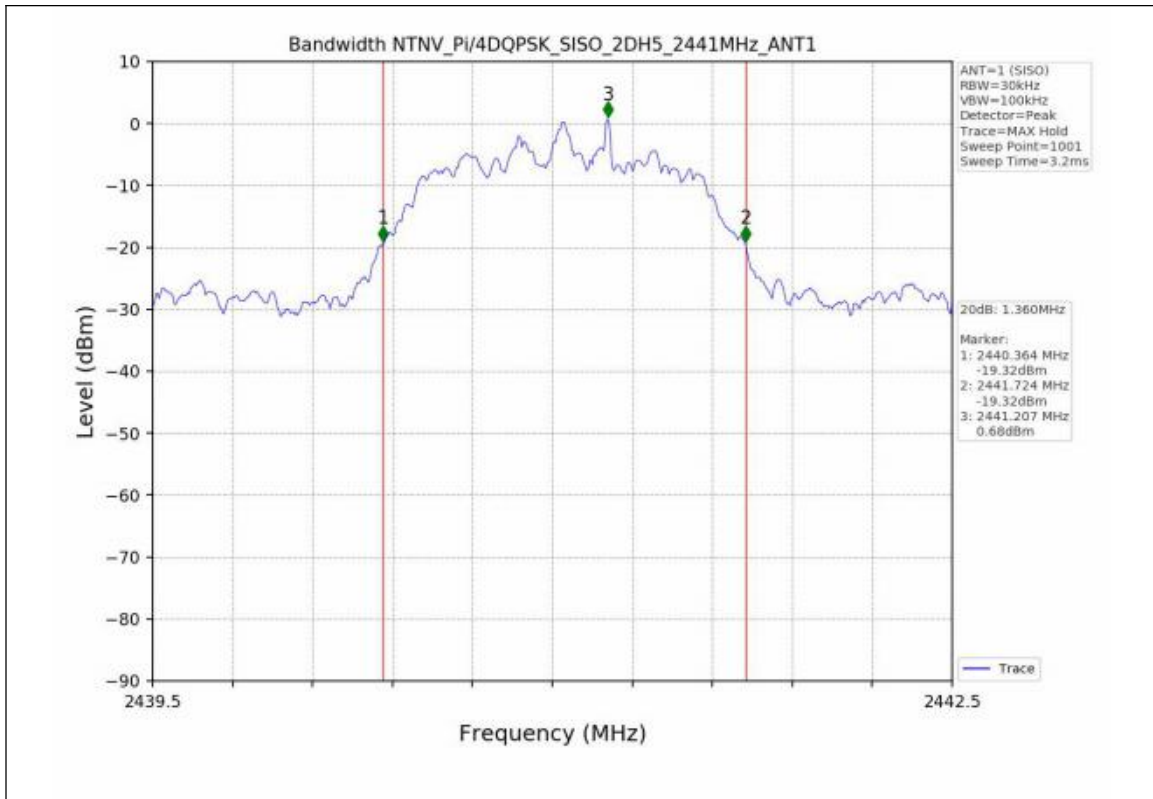
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.953	PASS
	2441	SISO	1	0.954	PASS
	2480	SISO	1	0.952	PASS
Pi/4DQPSK	2402	SISO	1	1.357	PASS
	2441	SISO	1	1.360	PASS
	2480	SISO	1	1.347	PASS
8DPSK	2402	SISO	1	1.356	PASS
	2441	SISO	1	1.352	PASS
	2480	SISO	1	1.344	PASS

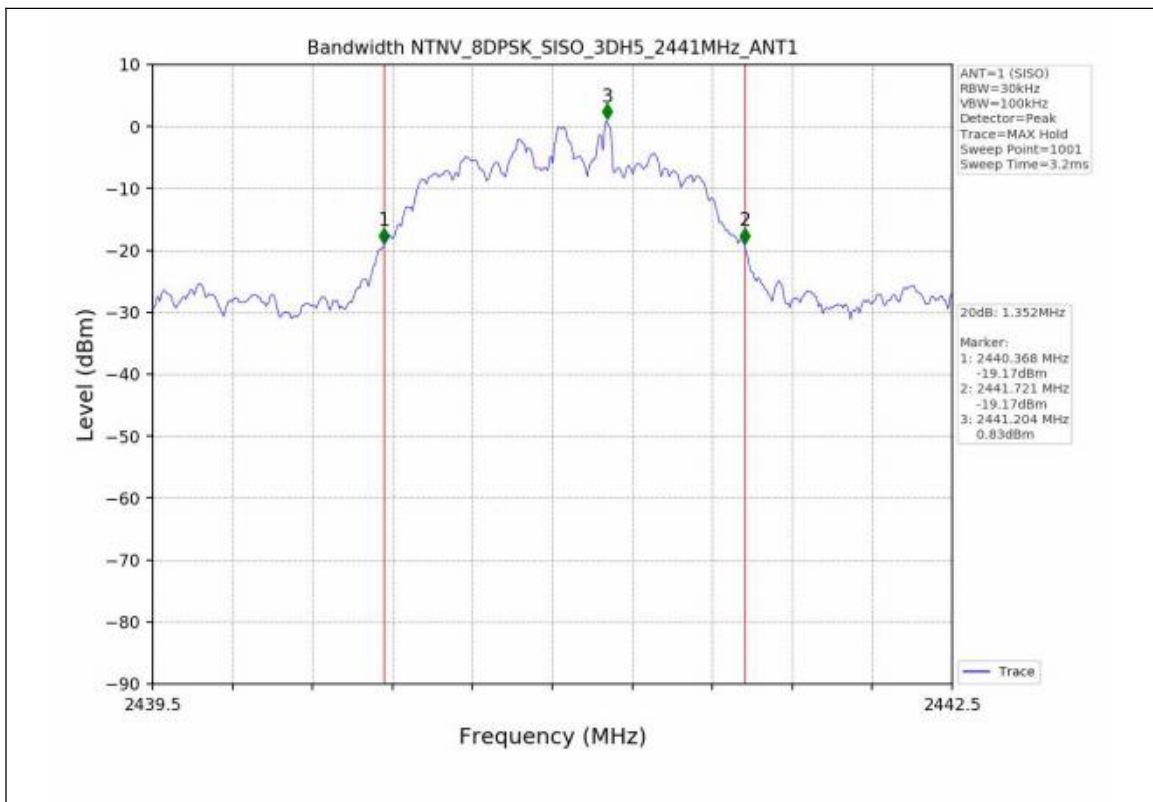
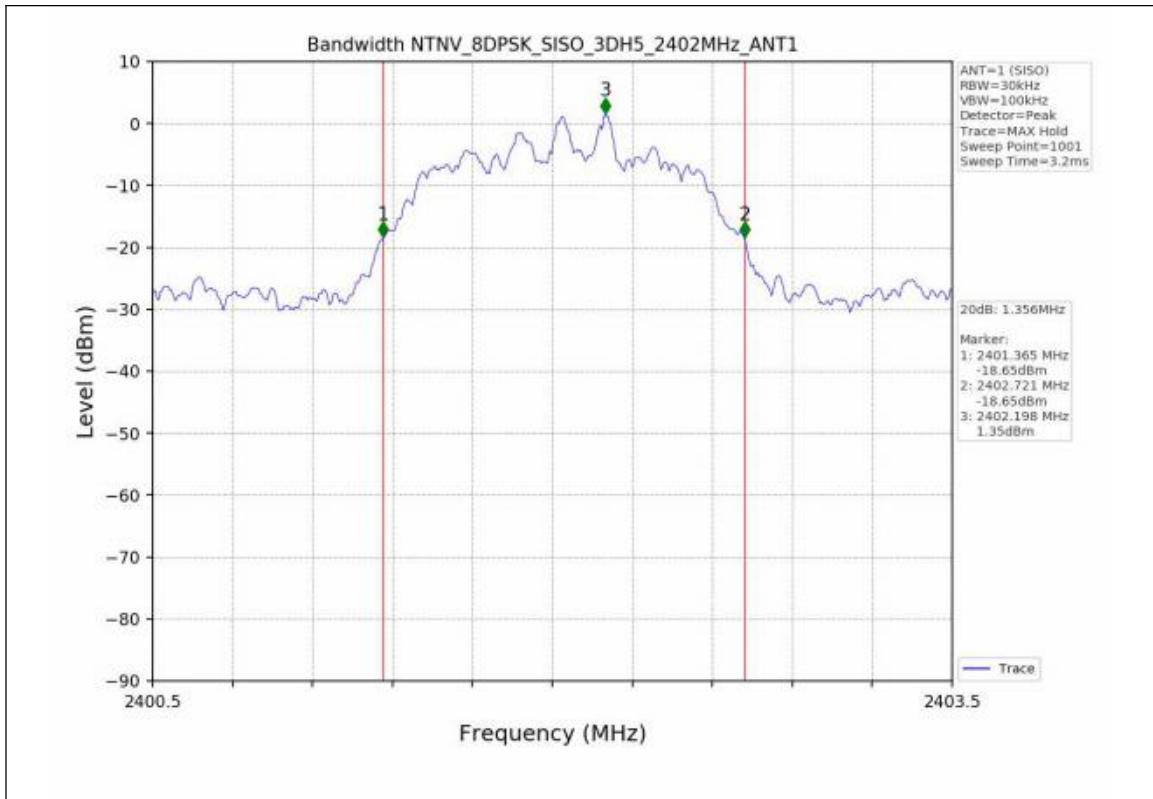
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.850	Only for Report Use
	2441	SISO	1	0.850	Only for Report Use
	2480	SISO	1	0.853	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.349	Only for Report Use
	2441	SISO	1	1.342	Only for Report Use
	2480	SISO	1	1.286	Only for Report Use
8DPSK	2402	SISO	1	1.363	Only for Report Use
	2441	SISO	1	1.349	Only for Report Use
	2480	SISO	1	1.280	Only for Report Use

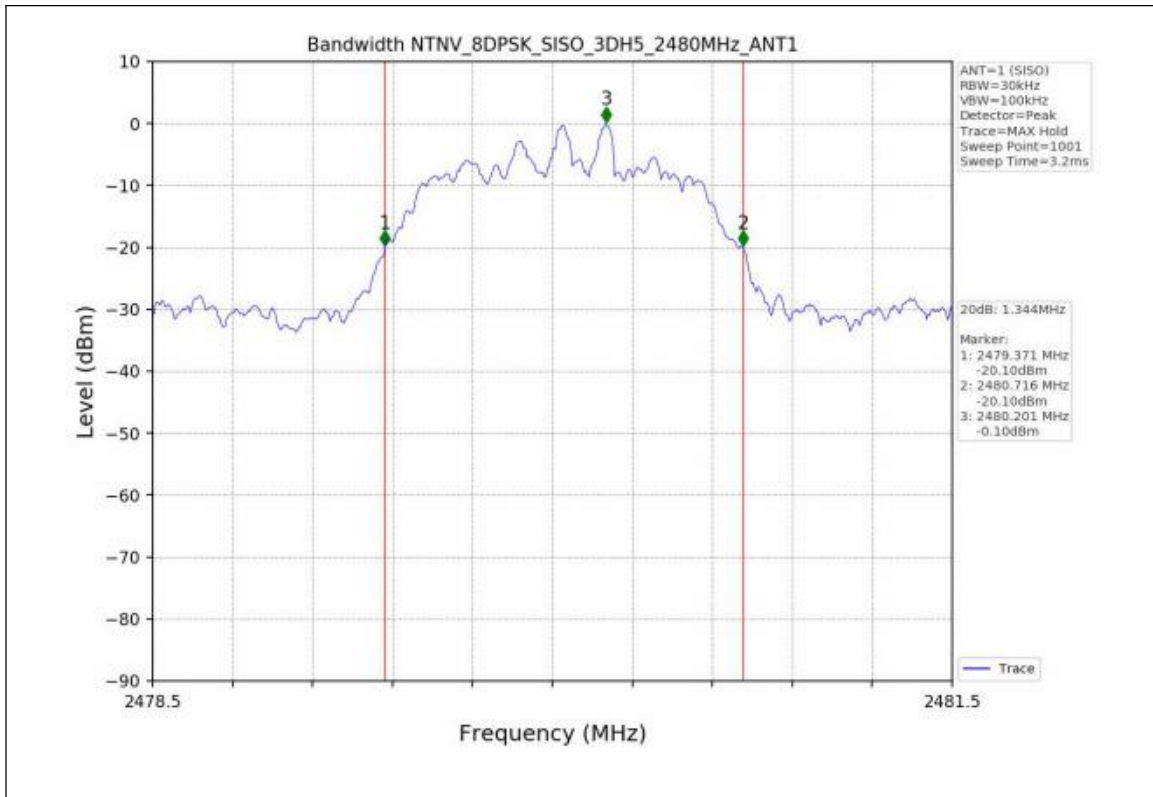
1.2 Test Graph - 20dB Bandwidth



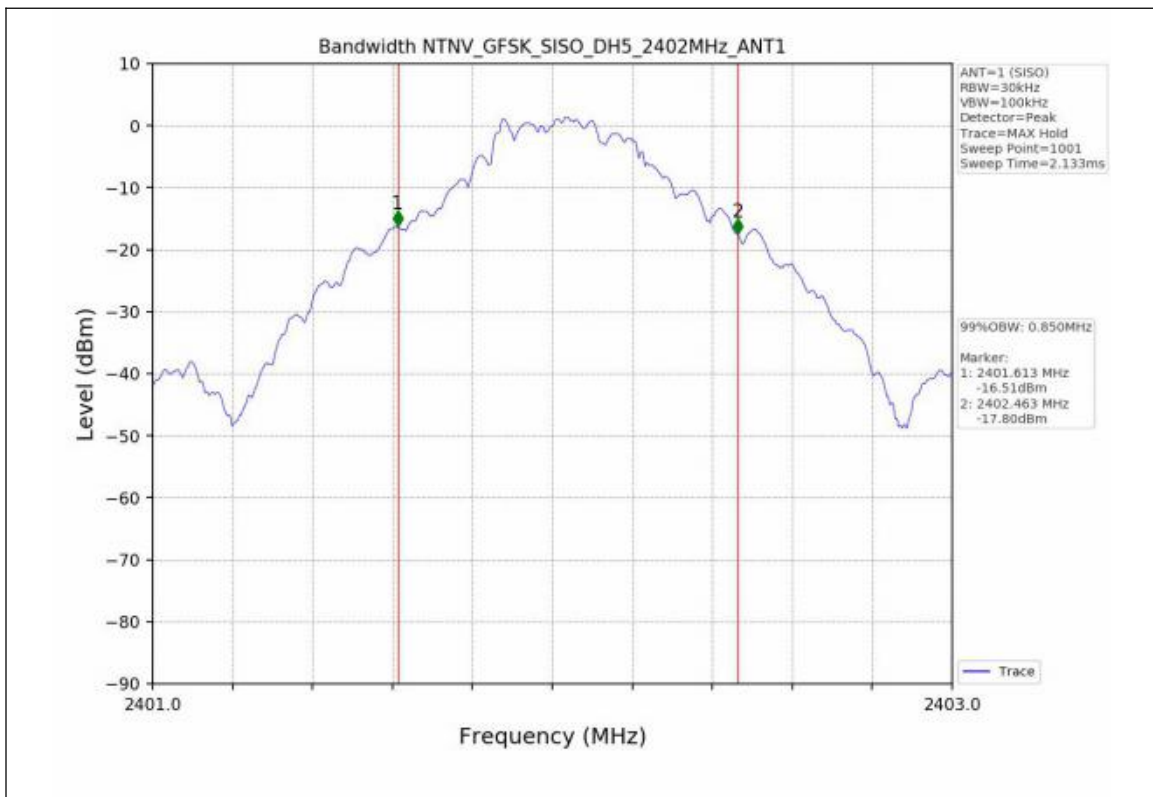


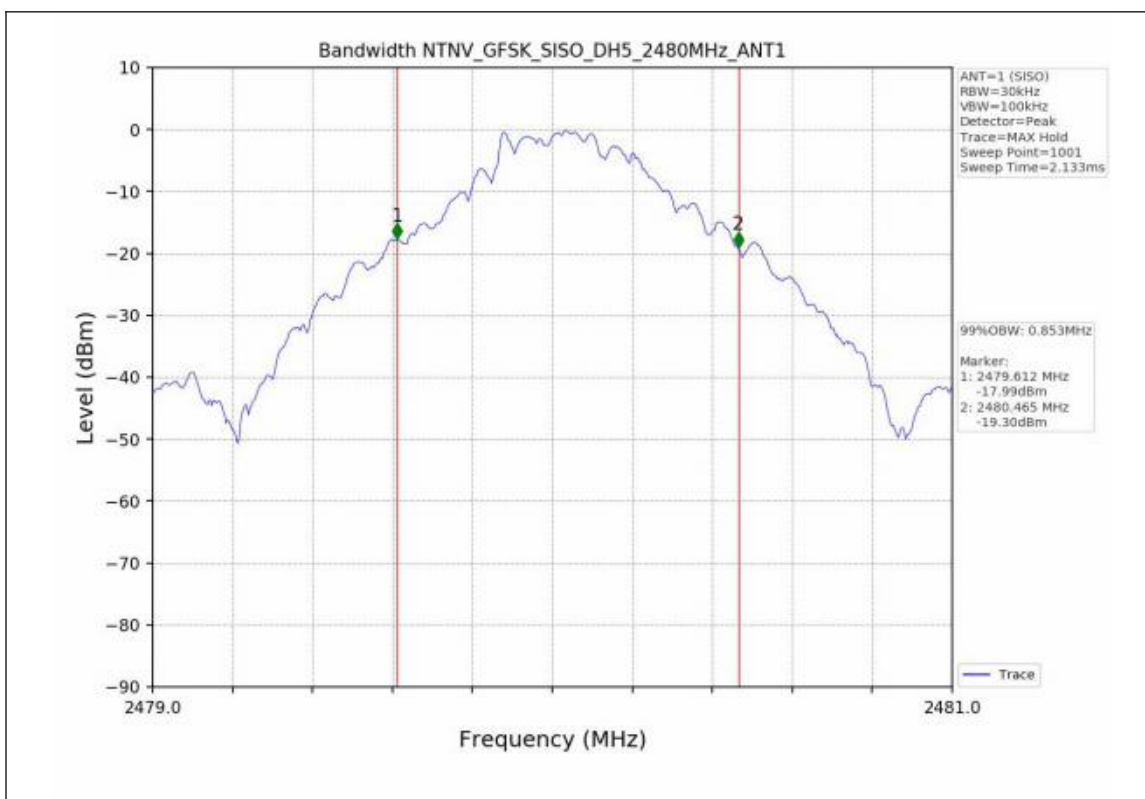
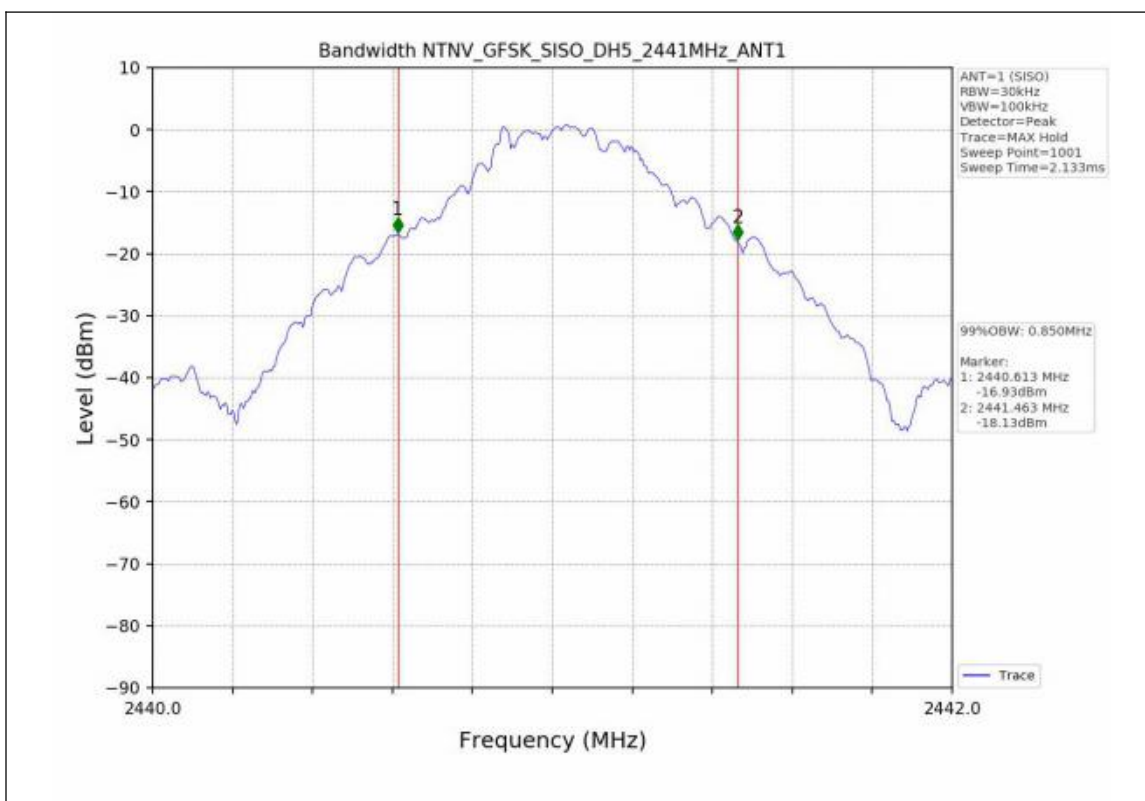


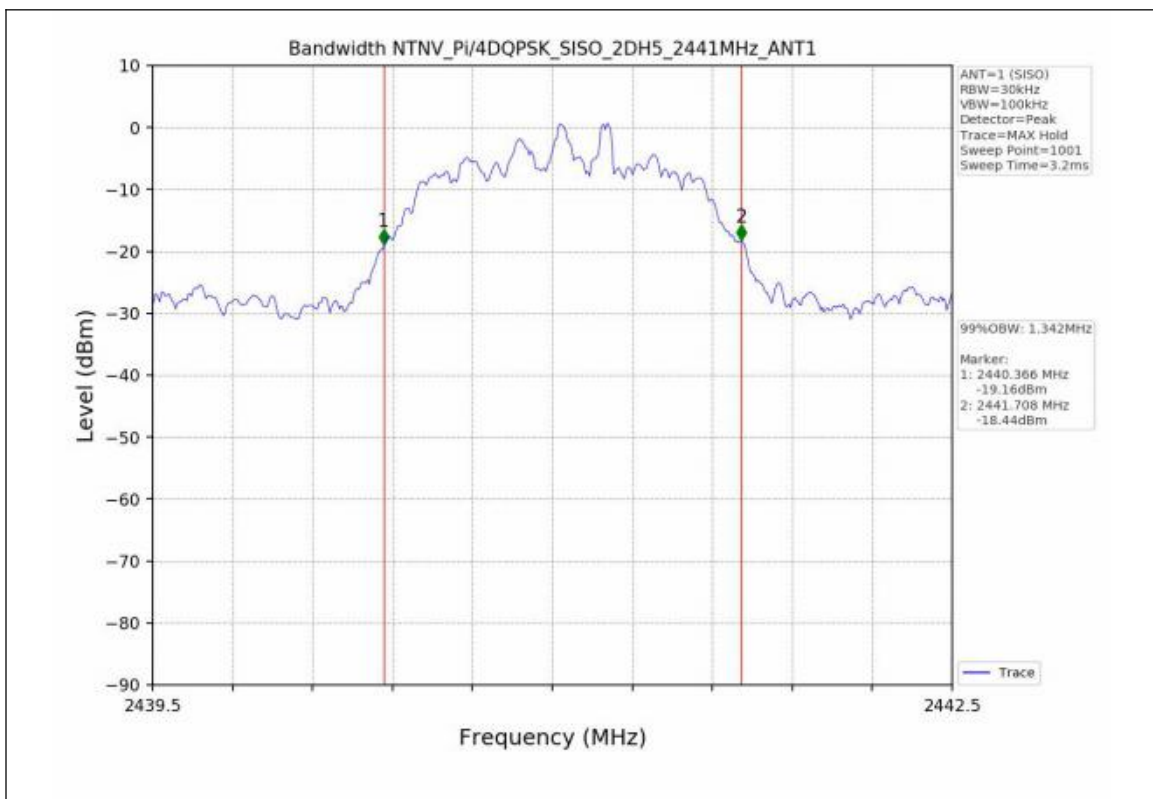
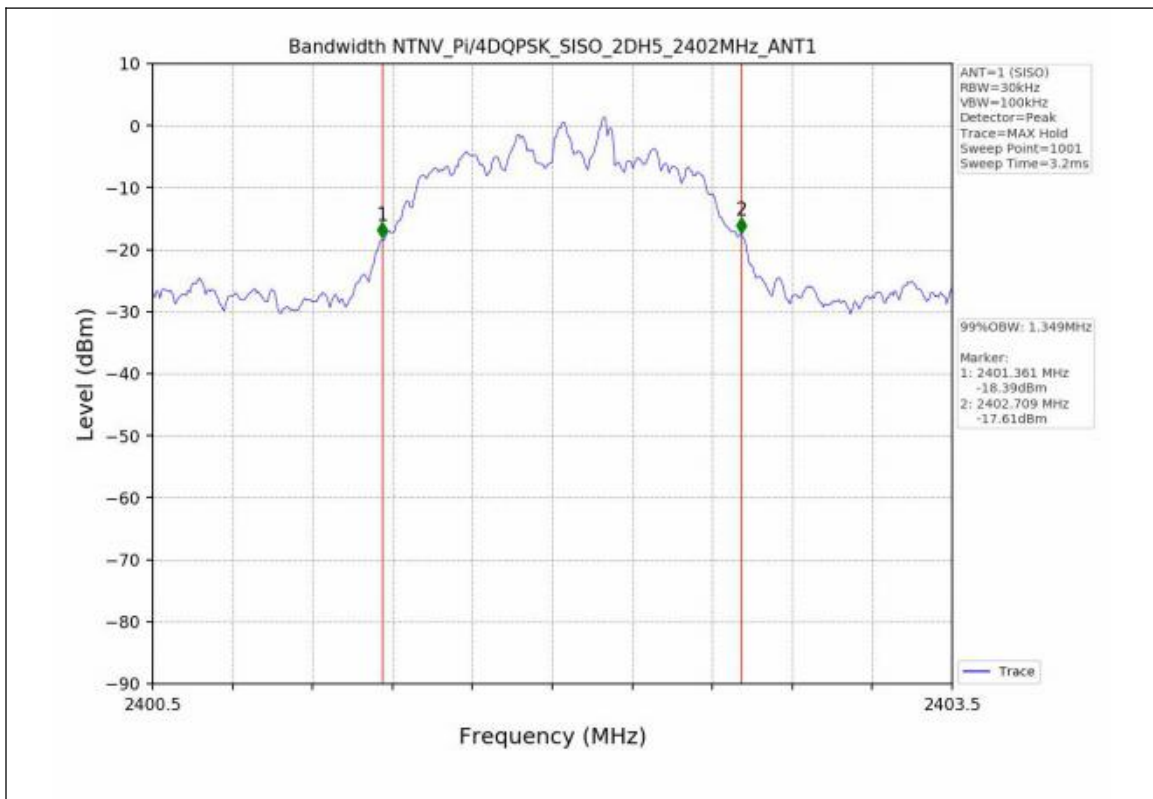


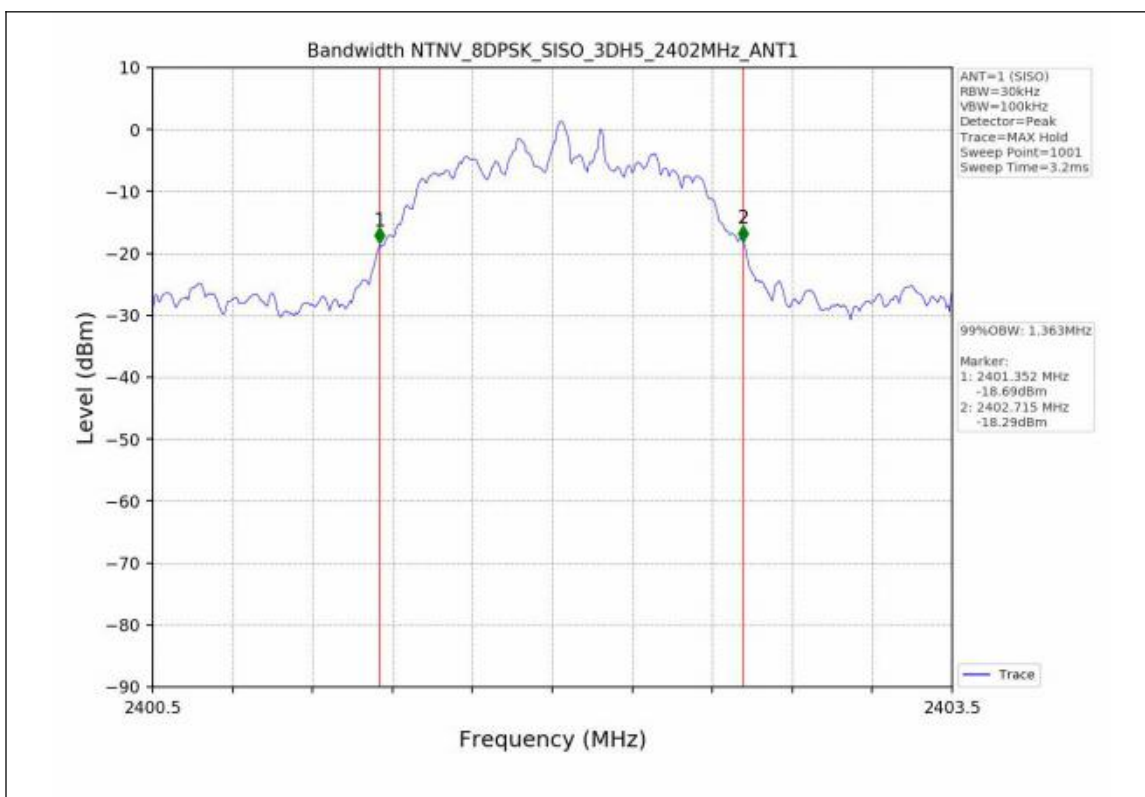
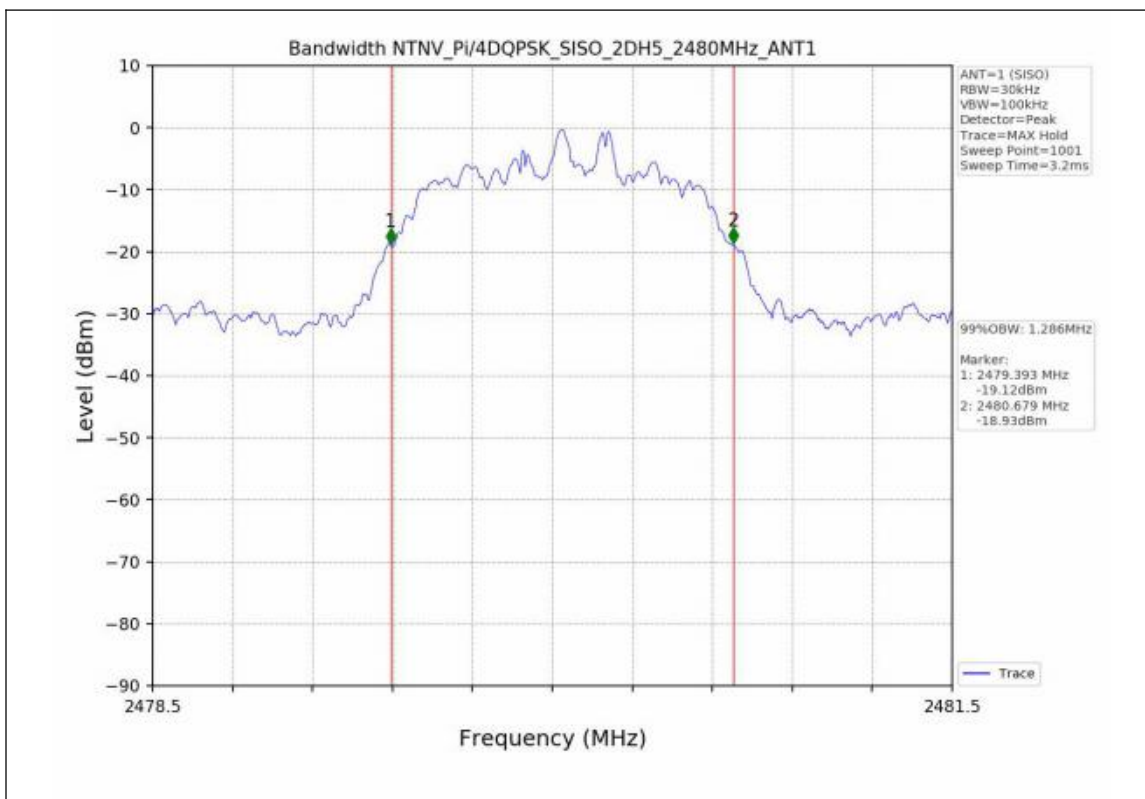


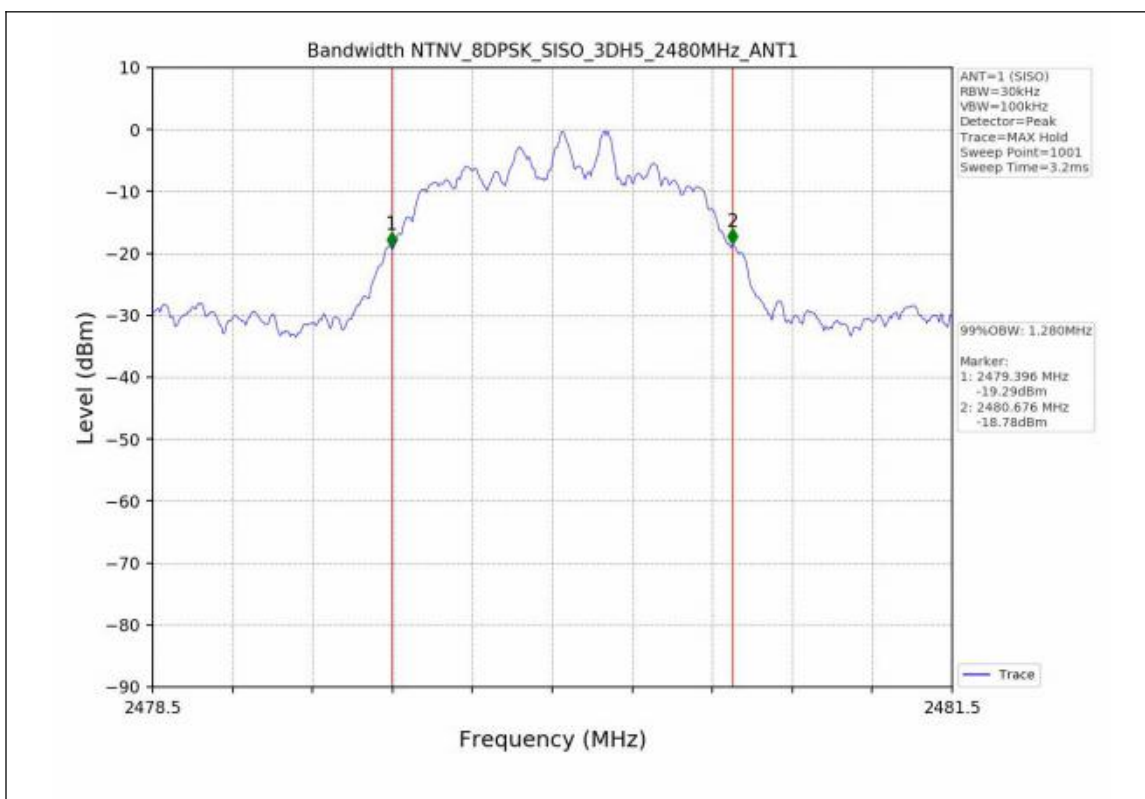
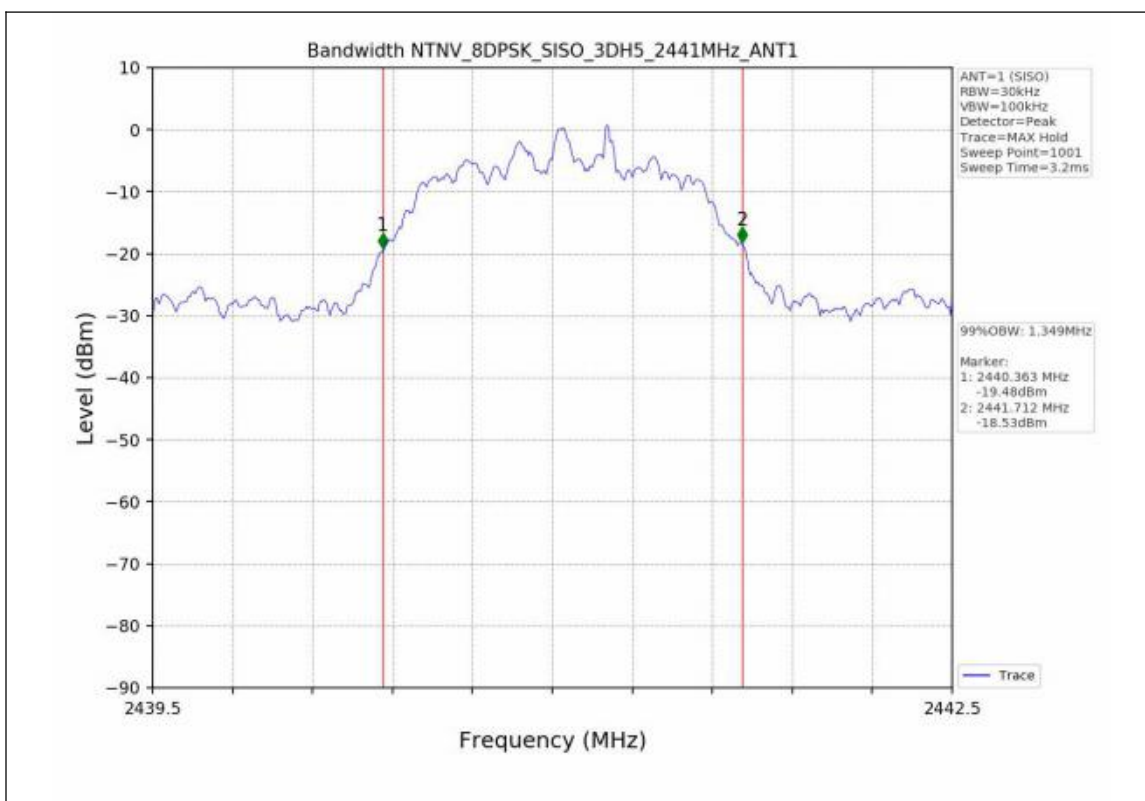
1.3 Test Graph - 99% Occupied Bandwidth









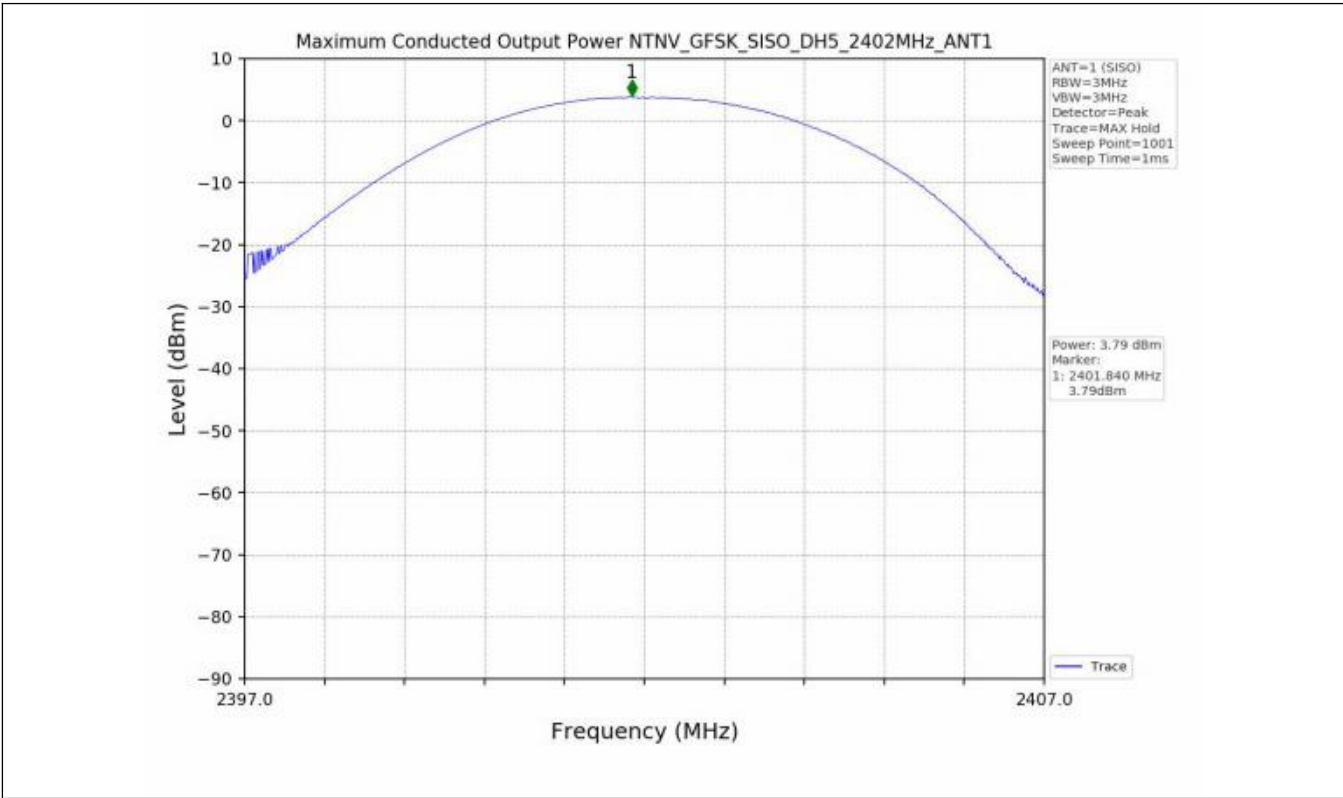


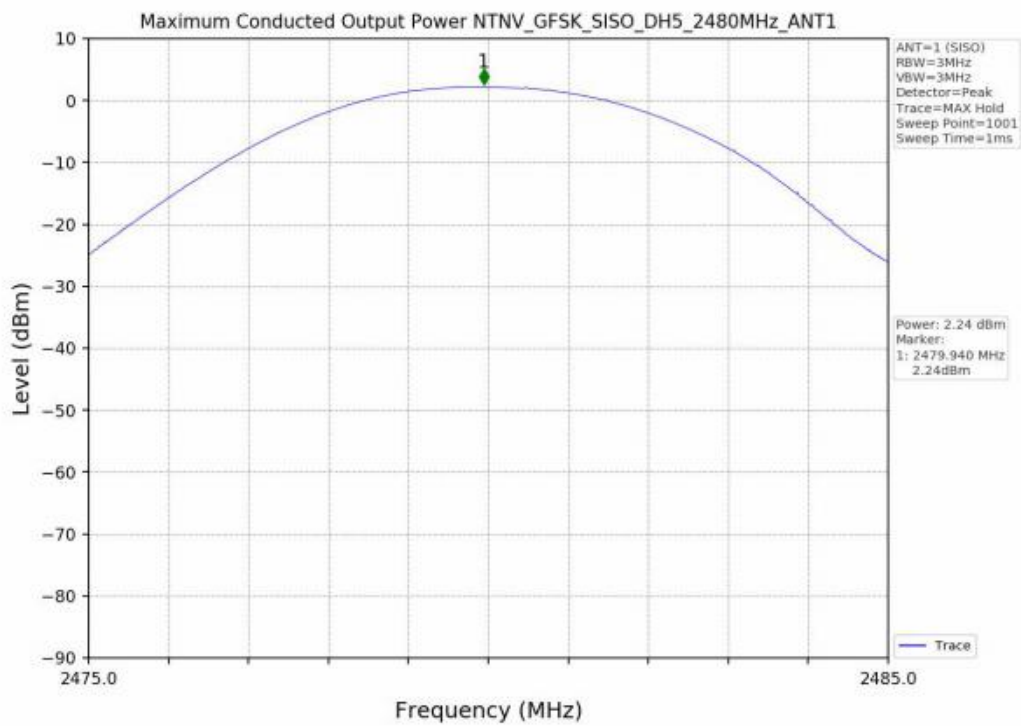
2. Maximum Conducted Output Power

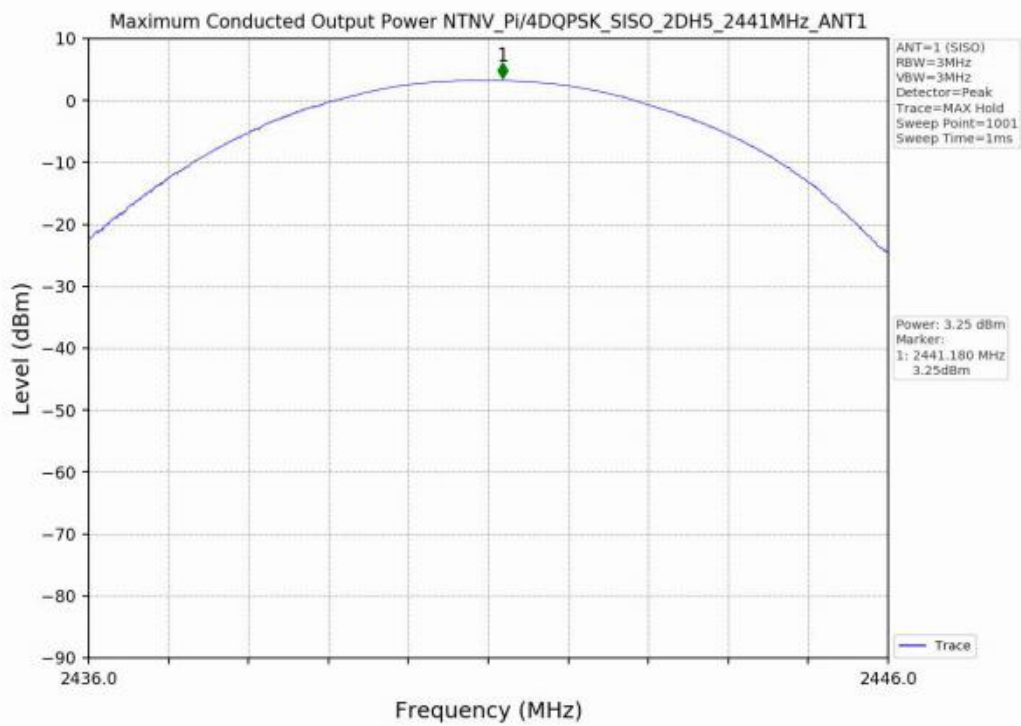
2.1 Test Result

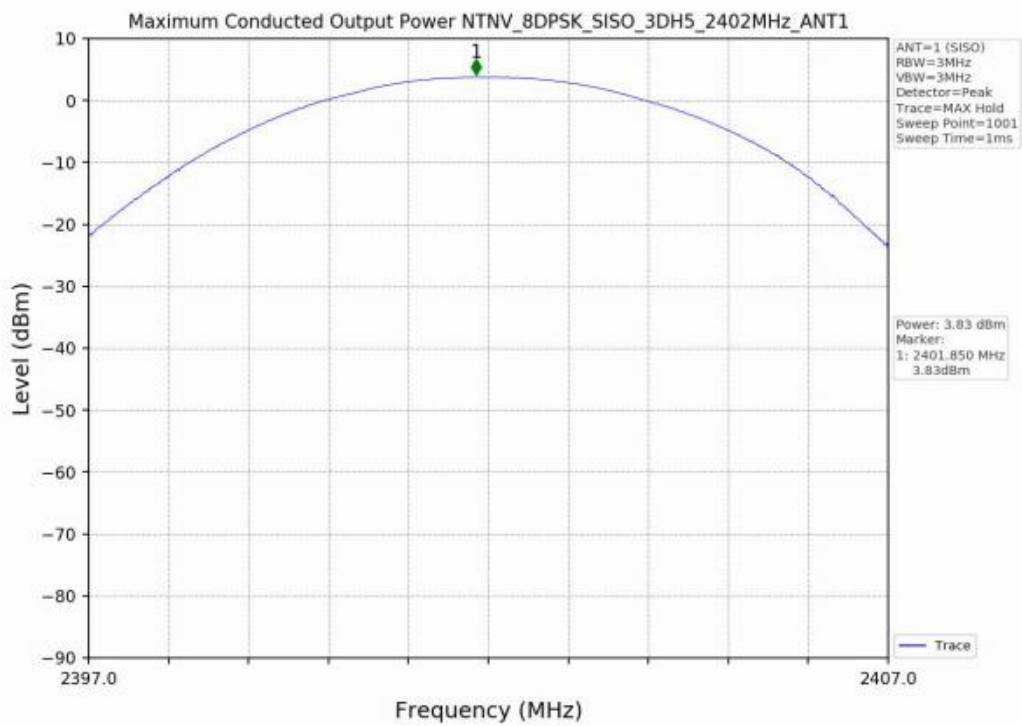
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	3.79	30	PASS
	2441	SISO	3.17	30	PASS
	2480	SISO	2.24	30	PASS
Pi/4DQPSK	2402	SISO	3.88	20.97	PASS
	2441	SISO	3.25	20.97	PASS
	2480	SISO	2.33	20.97	PASS
8DPSK	2402	SISO	3.83	20.97	PASS
	2441	SISO	3.26	20.97	PASS
	2480	SISO	2.35	20.97	PASS

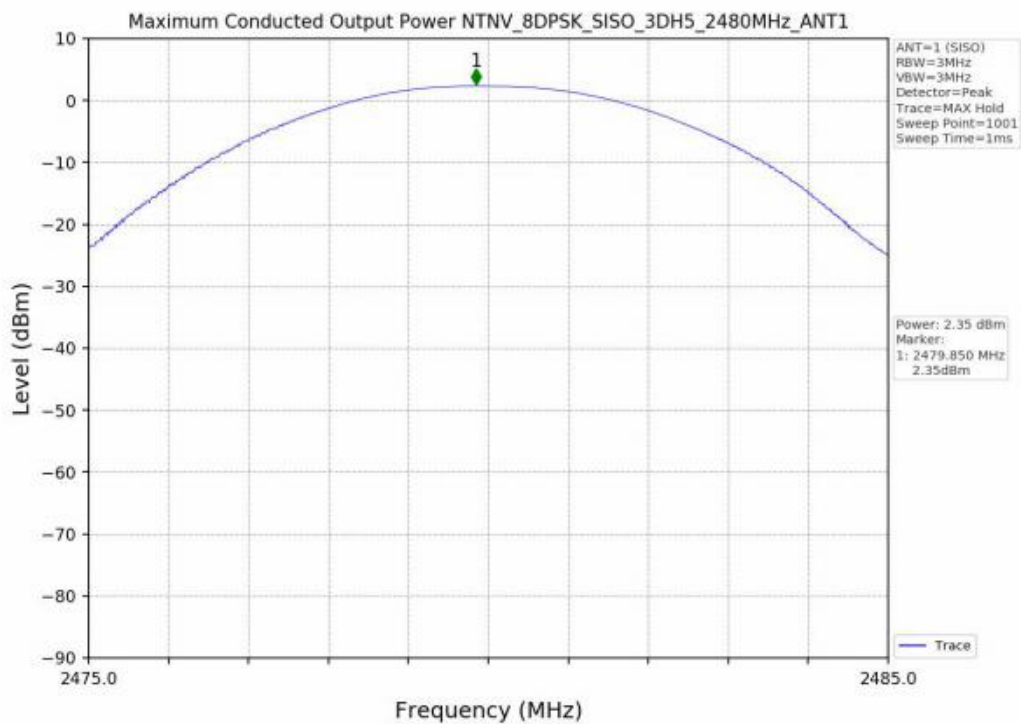
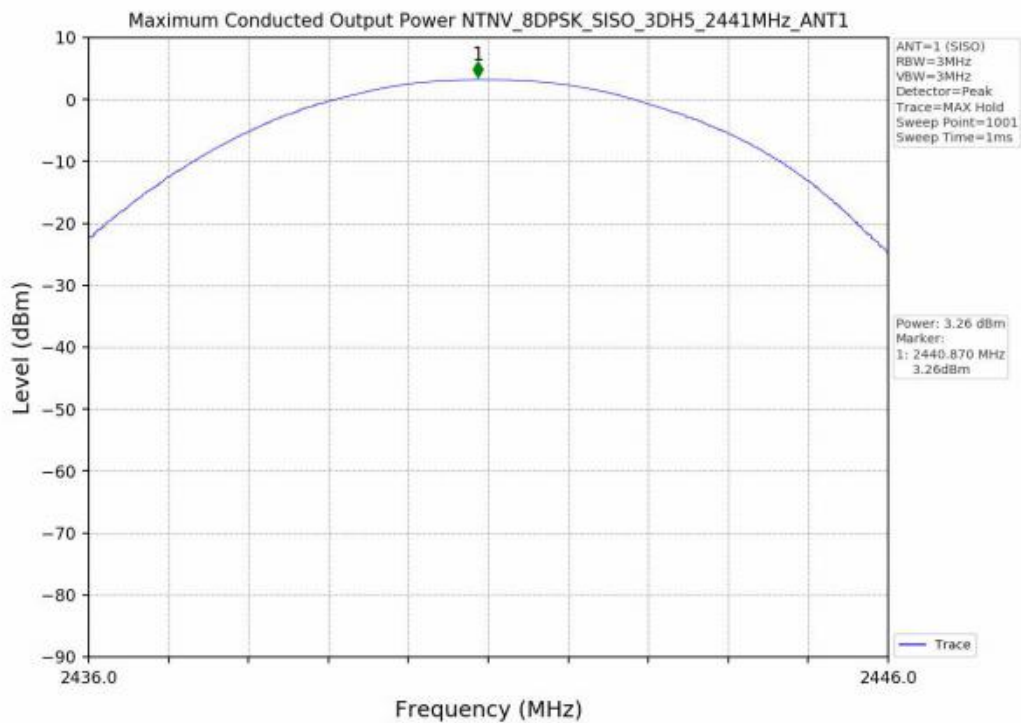
2.2 Test Graph









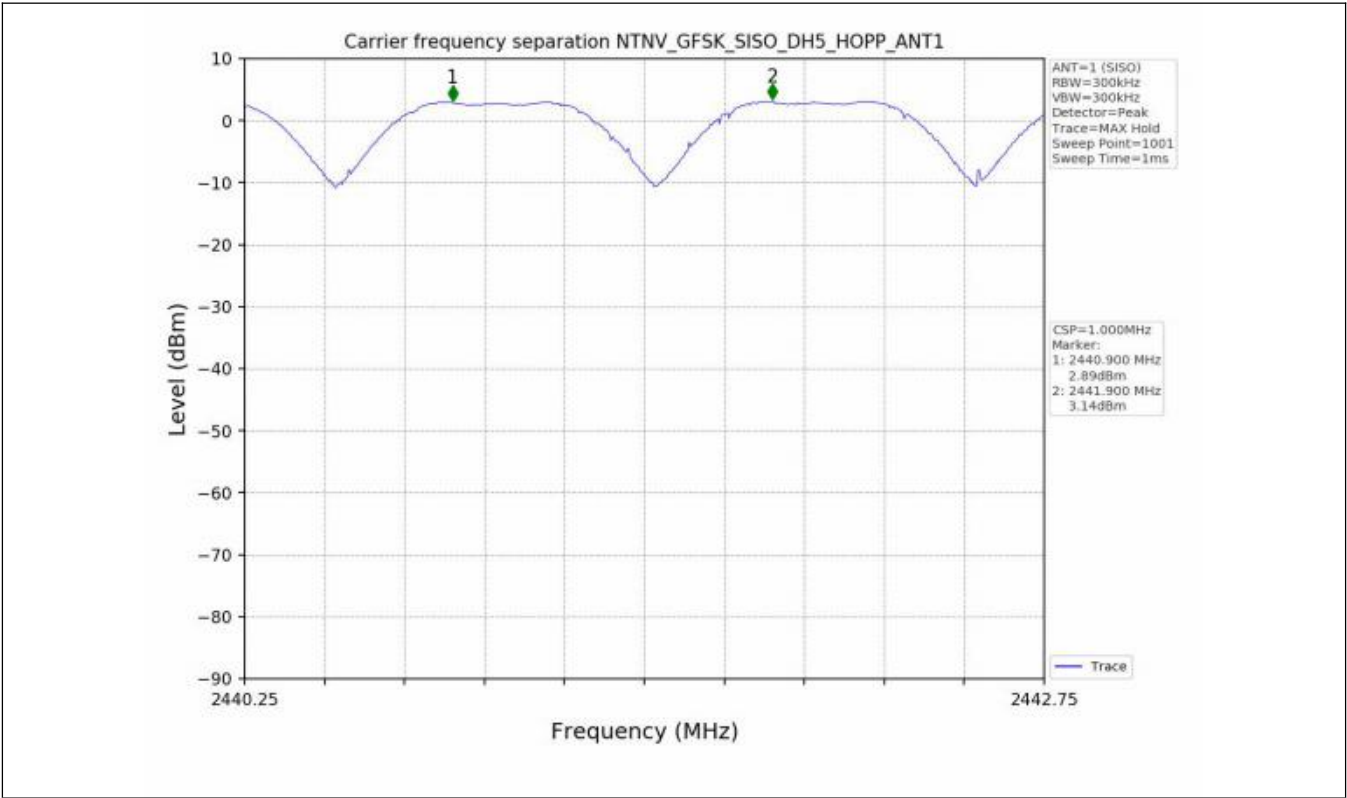


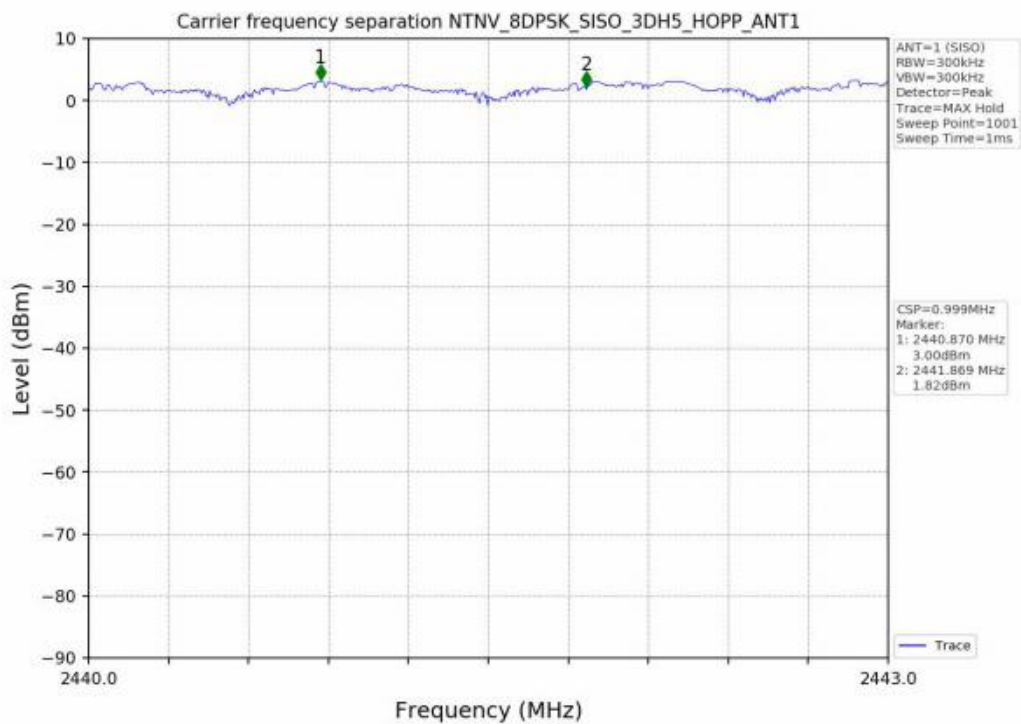
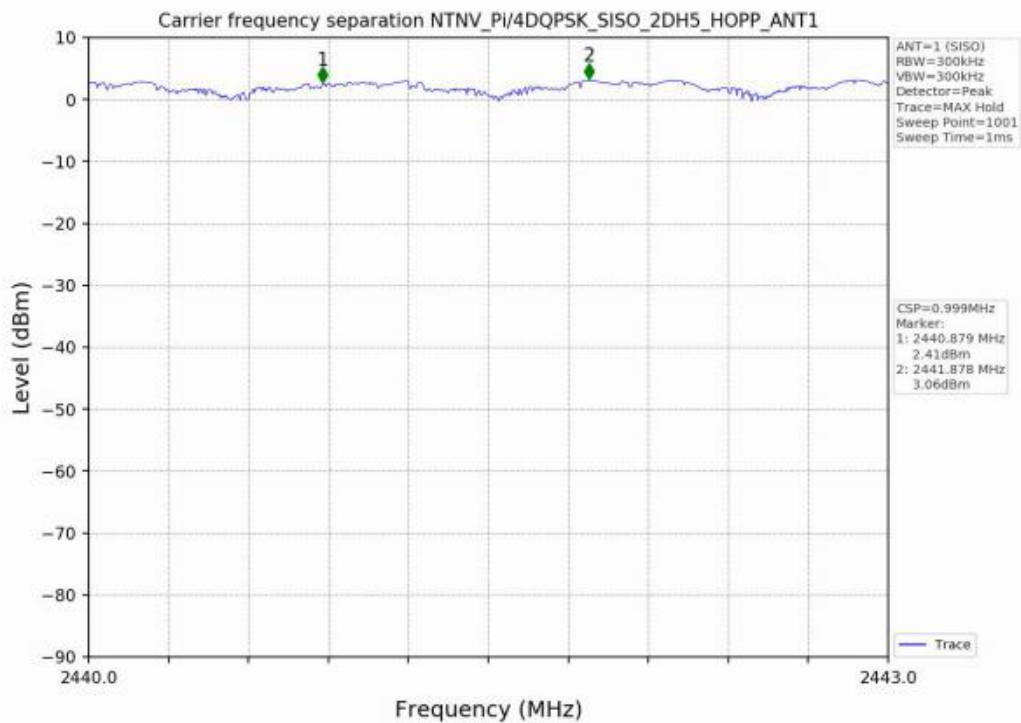
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	0.954	≥ 0.954	PASS
Pi/4DQPSK	SISO	1	0.999	1.360	≥ 0.907	PASS
8DPSK	SISO	1	0.999	1.356	≥ 0.904	PASS

3.2 Test Graph



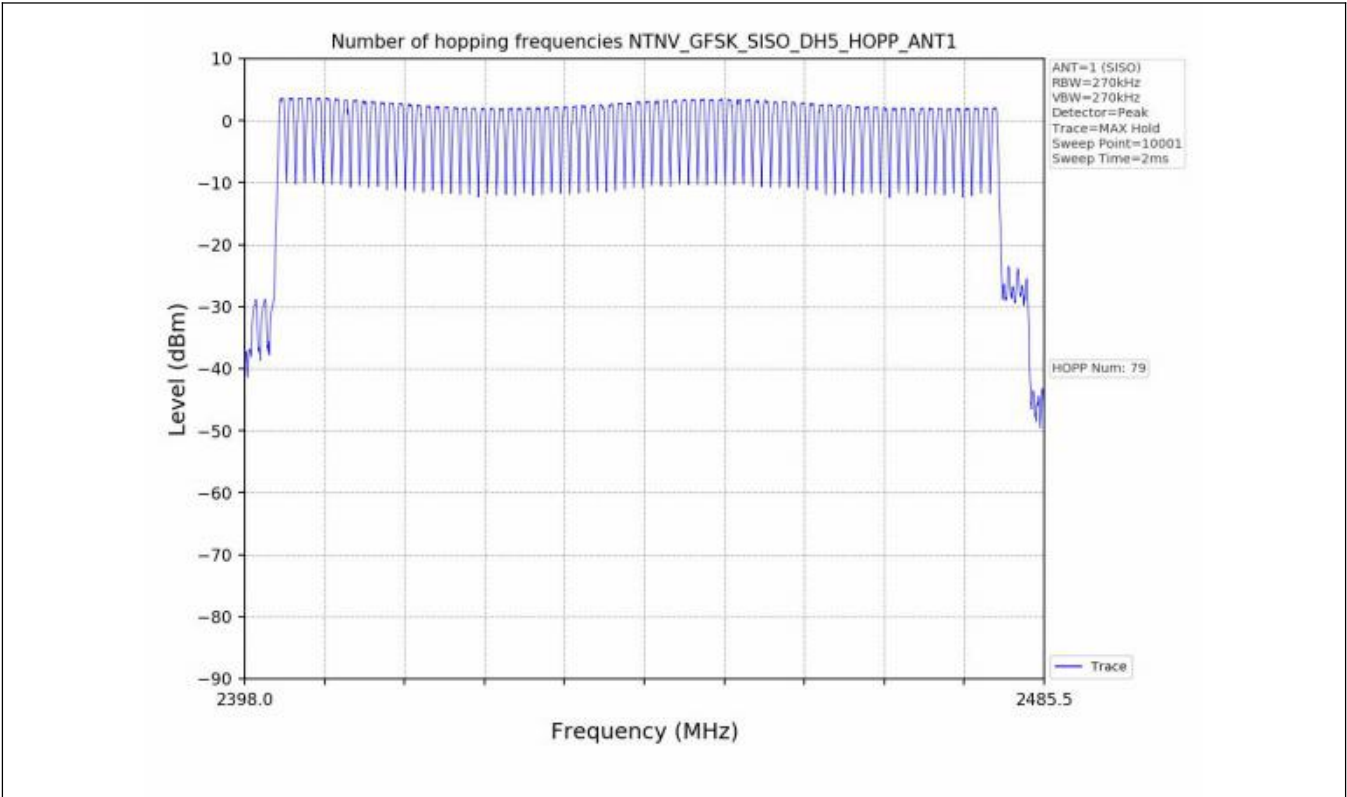


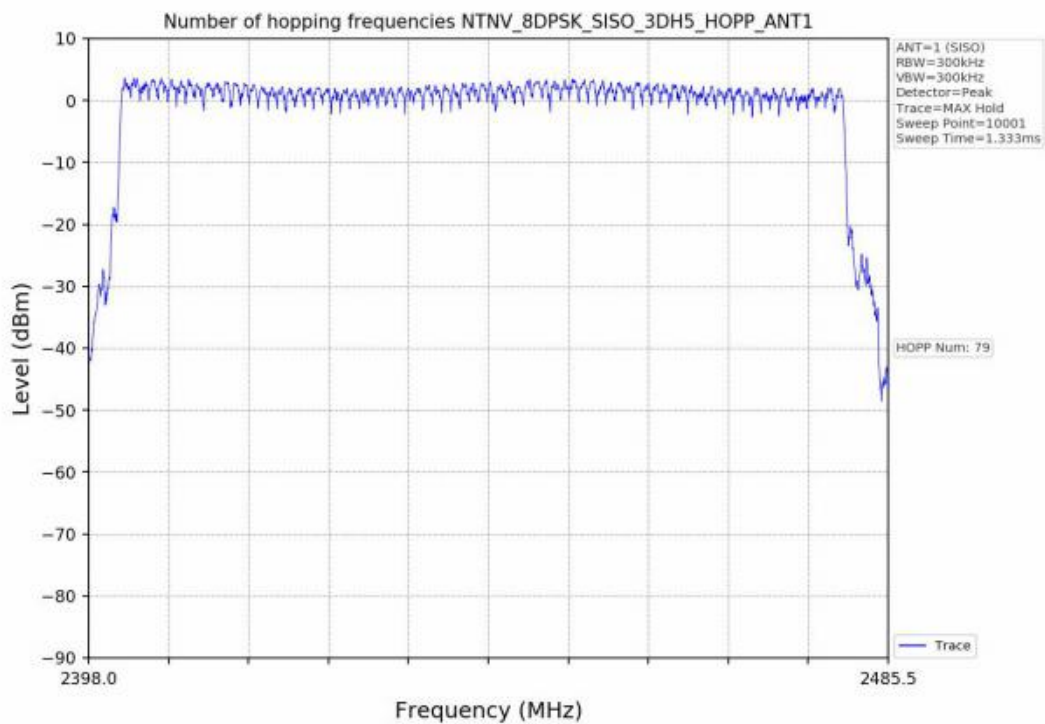
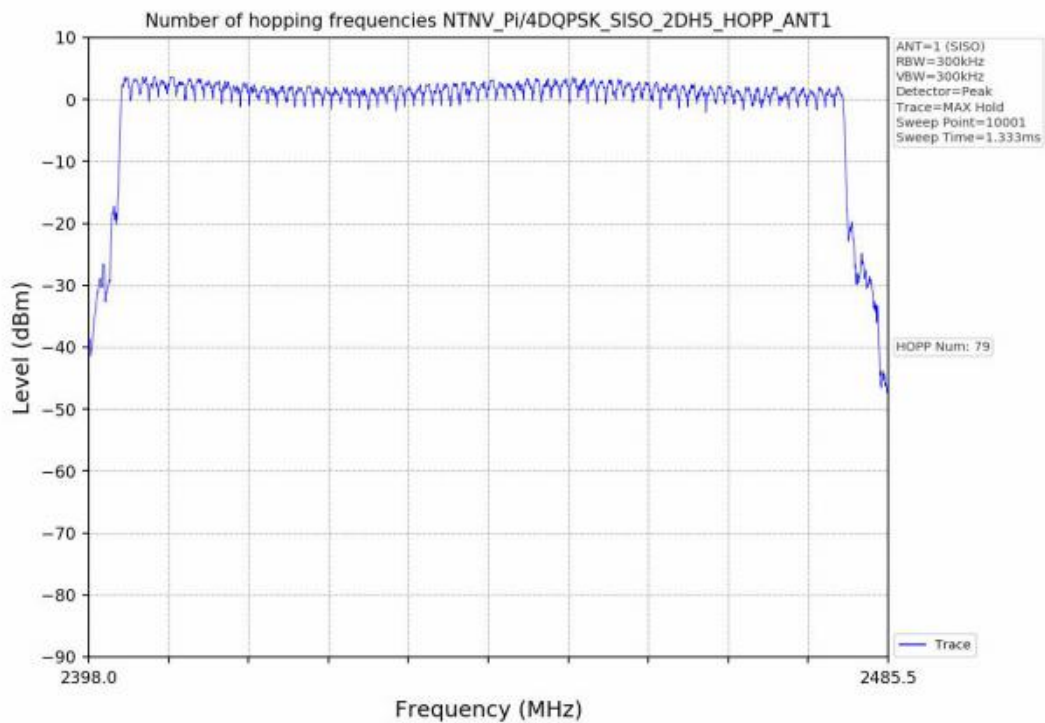
4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥ 15	PASS
Pi/4DQPSK	SISO	1	79	≥ 15	PASS
8DPSK	SISO	1	79	≥ 15	PASS

4.2 Test Graph



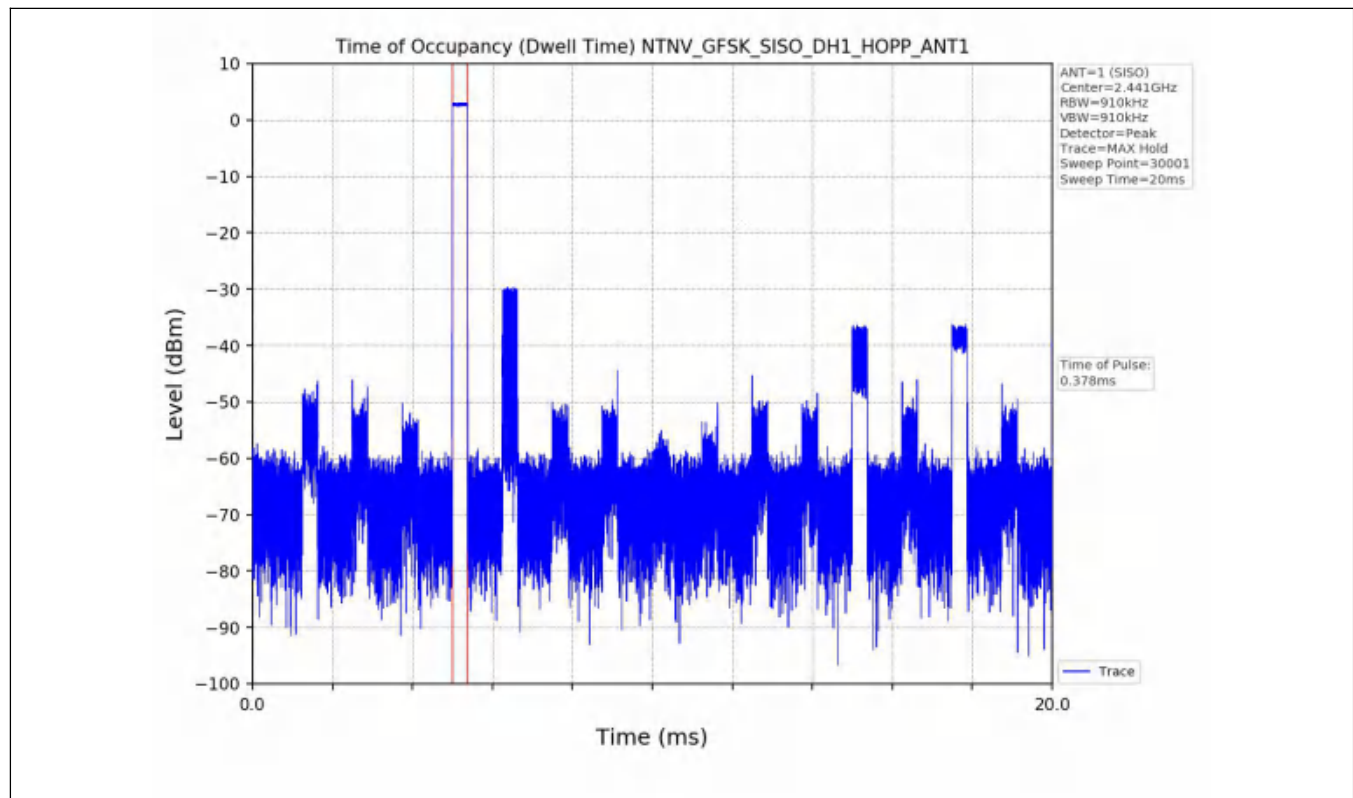


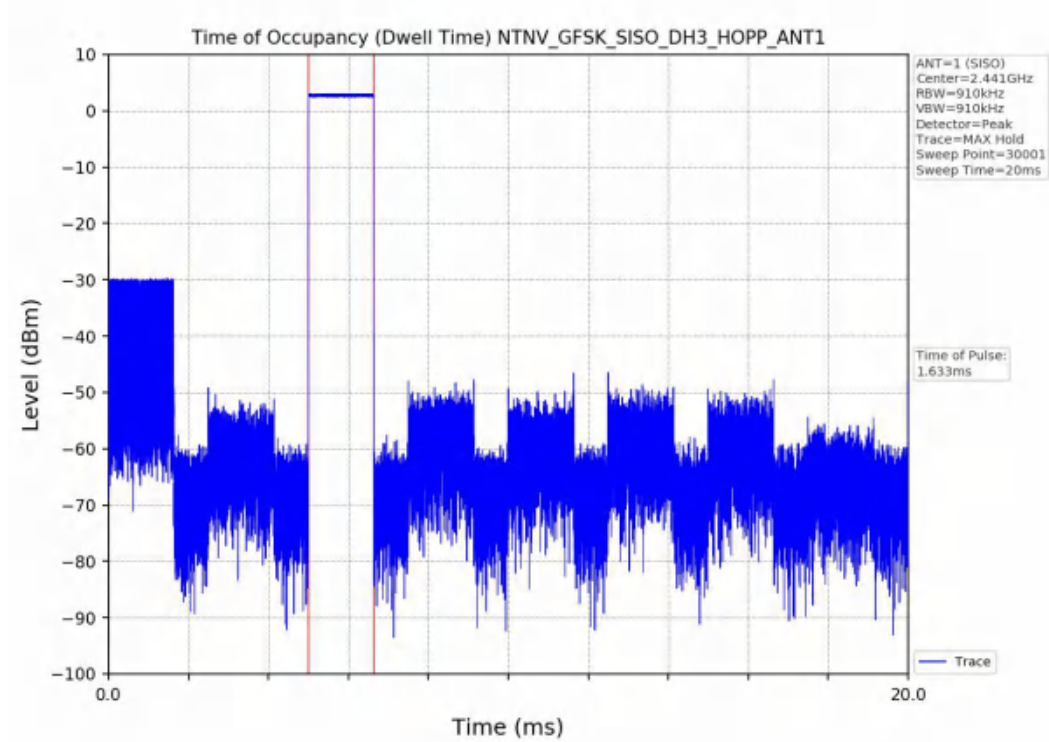
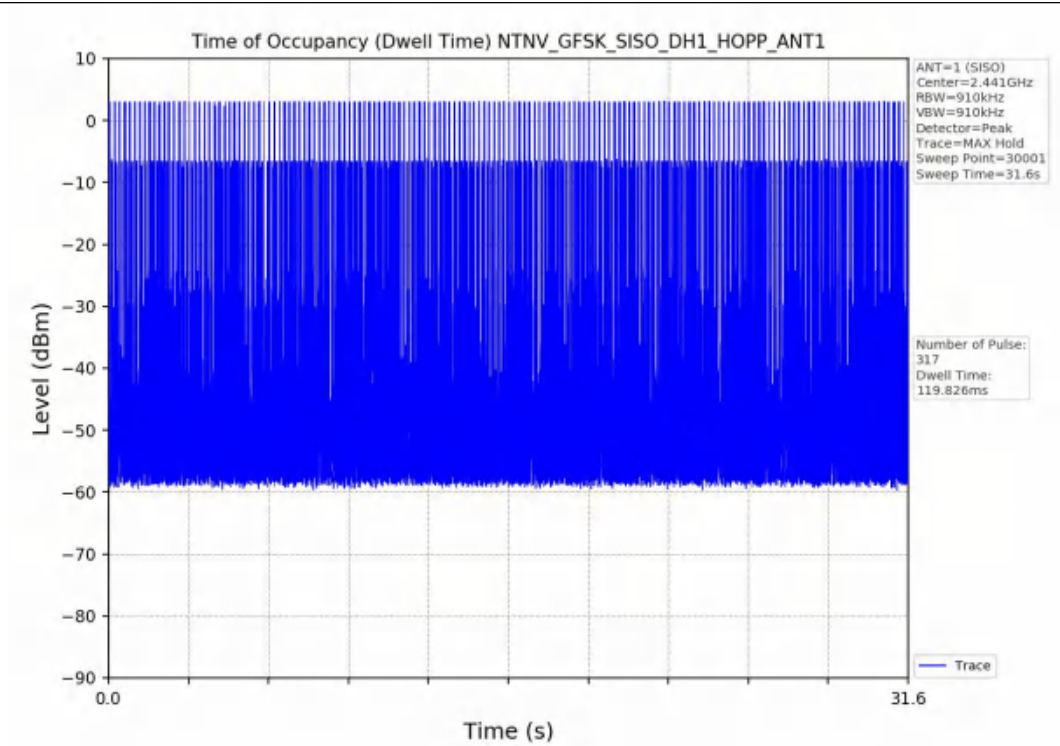
5. Time of occupancy (dwell time)

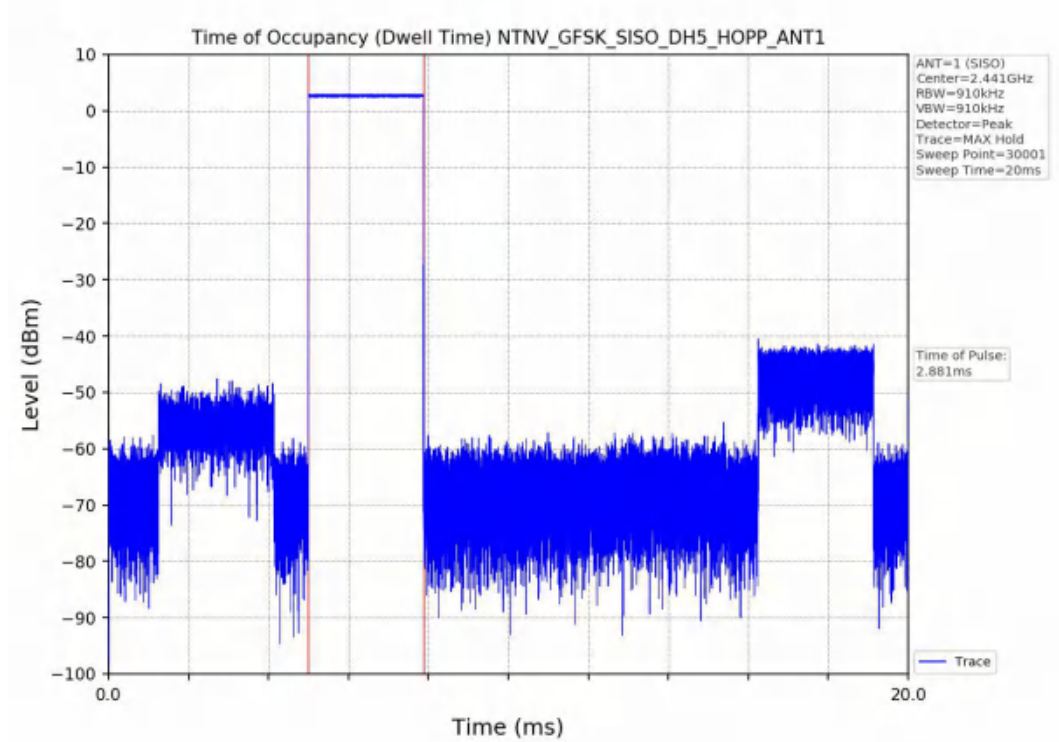
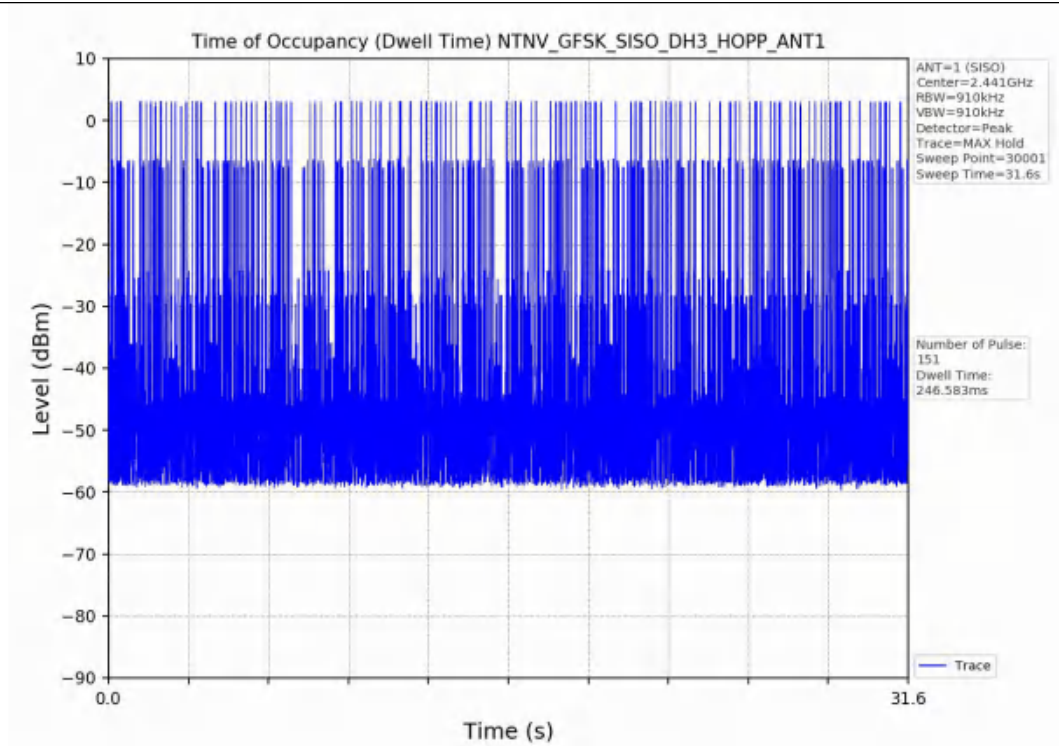
5.1 Test Result

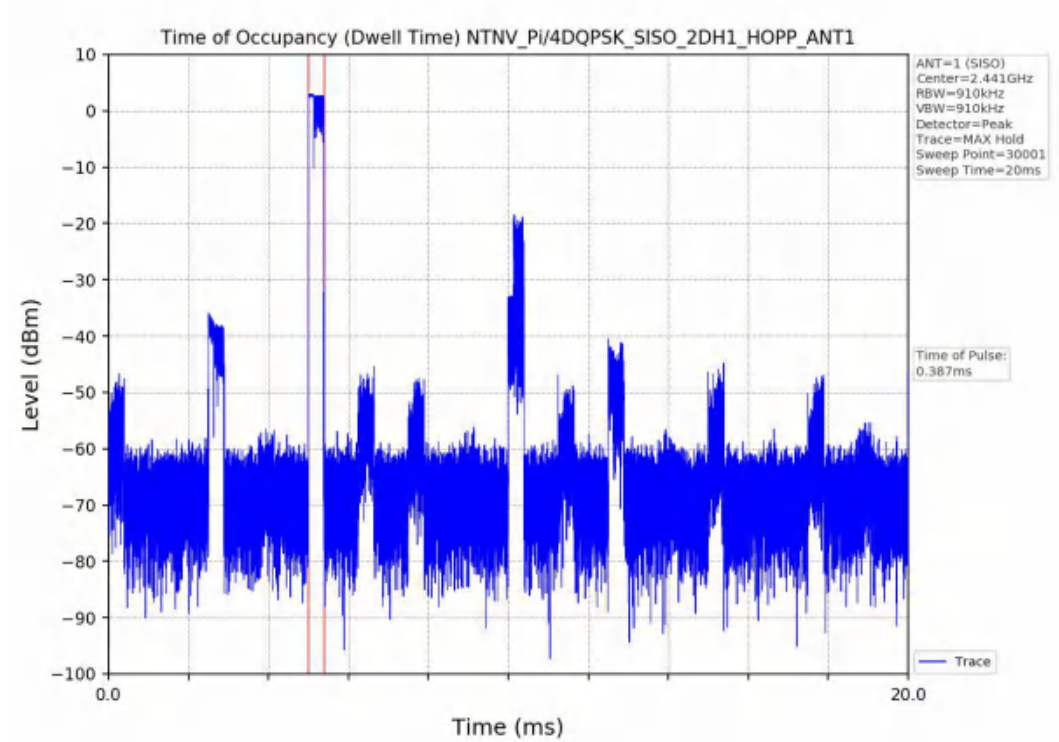
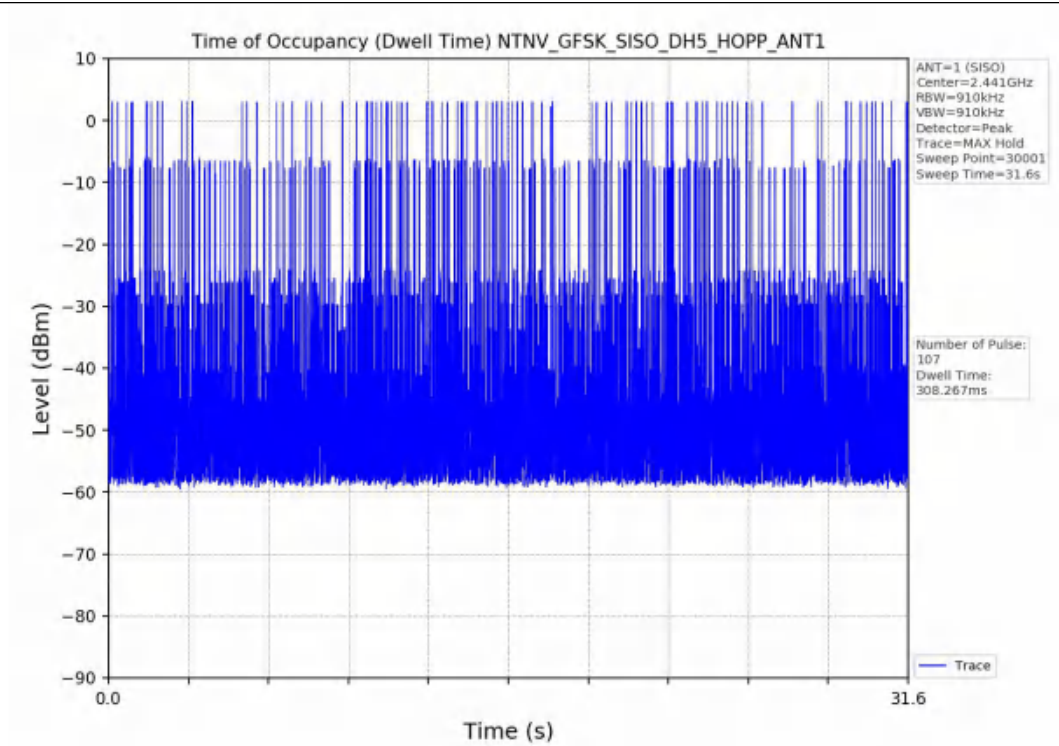
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.378	31.6	317	119.826	≤400	PASS
	DH3	SISO	1	1.633	31.6	151	246.583	≤400	PASS
	DH5	SISO	1	2.881	31.6	107	308.267	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.387	31.6	320	123.840	≤400	PASS
	2DH3	SISO	1	1.646	31.6	157	258.422	≤400	PASS
	2DH5	SISO	1	2.887	31.6	117	337.779	≤400	PASS
8DPSK	3DH1	SISO	1	0.387	31.6	319	123.453	≤400	PASS
	3DH3	SISO	1	1.639	31.6	158	258.962	≤400	PASS
	3DH5	SISO	1	2.888	31.6	113	326.344	≤400	PASS

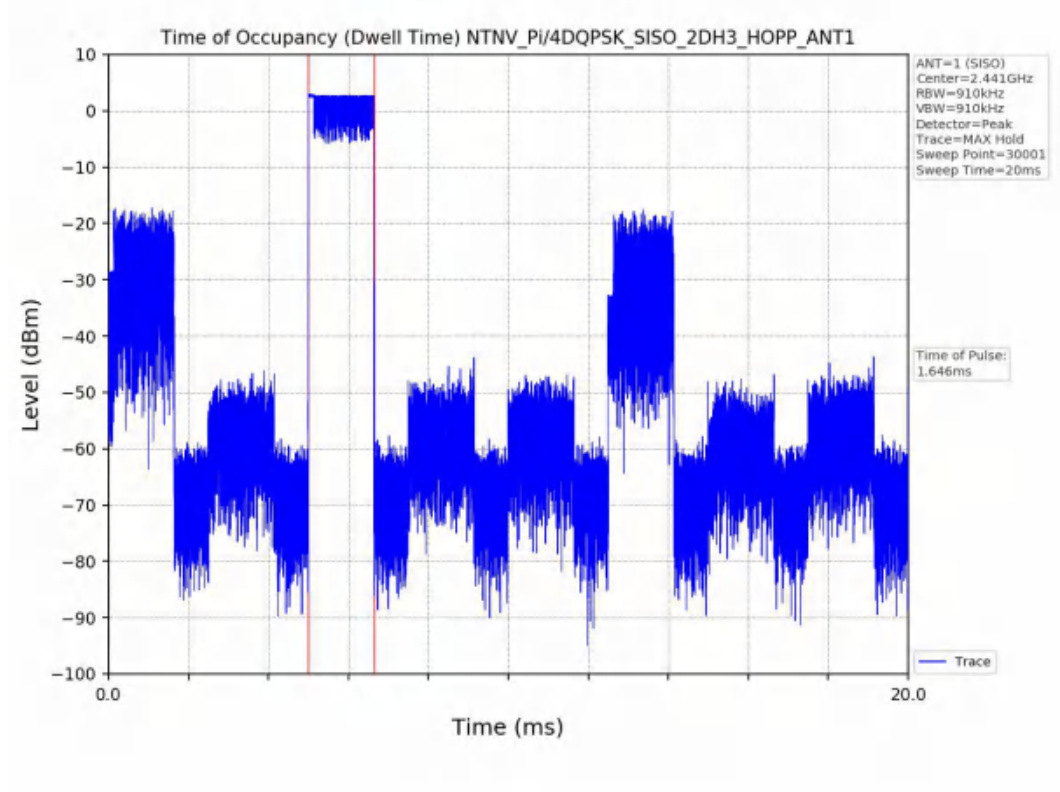
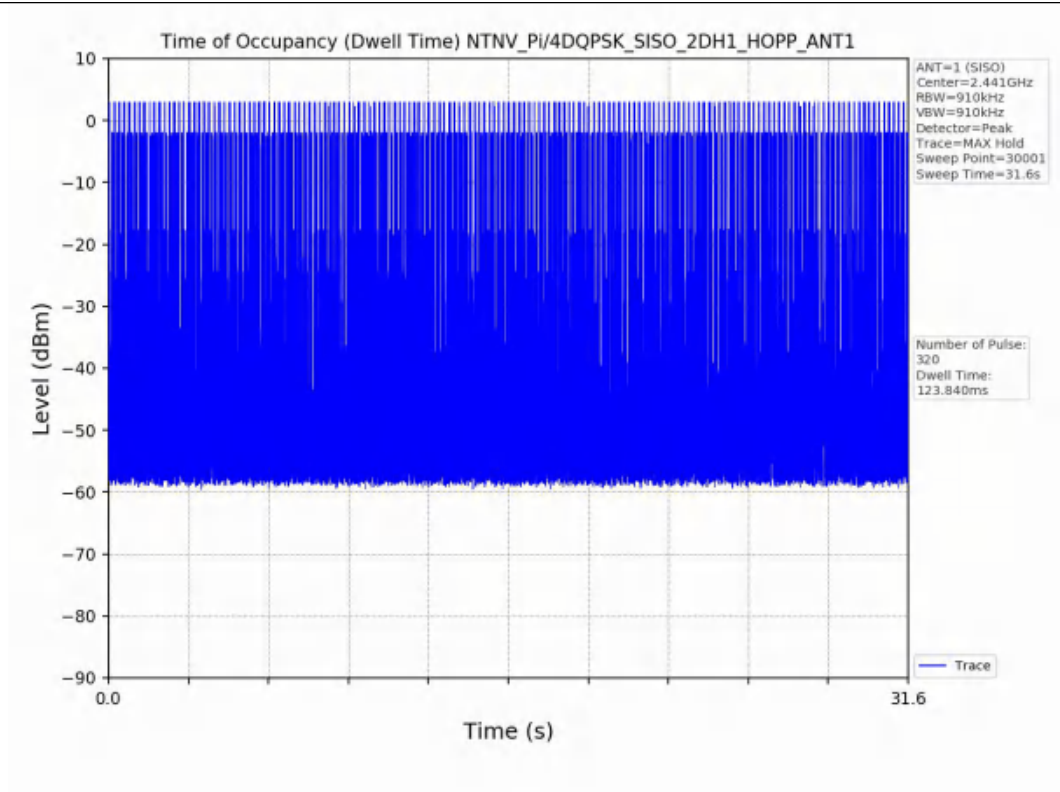
5.2 Test Graph

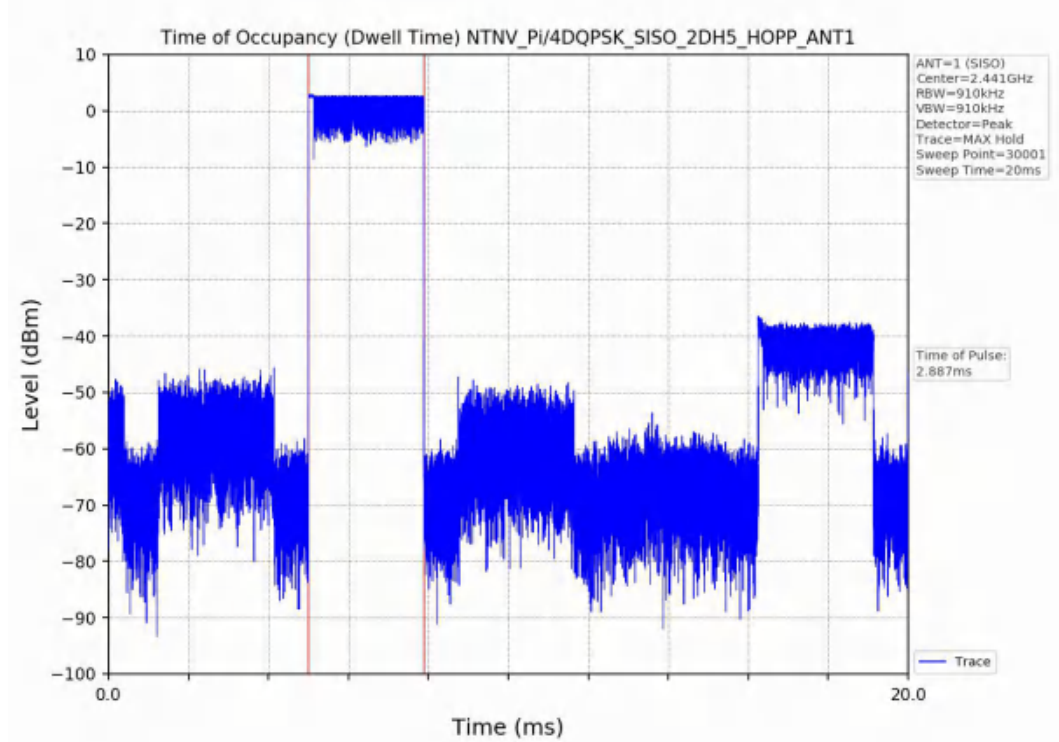
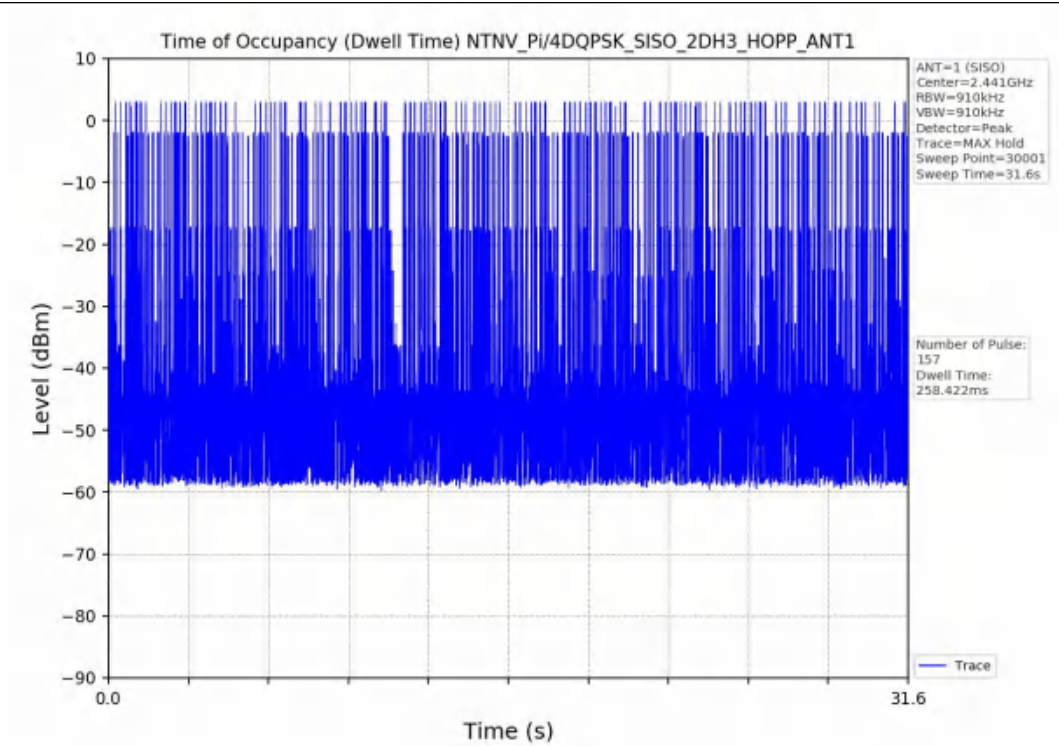


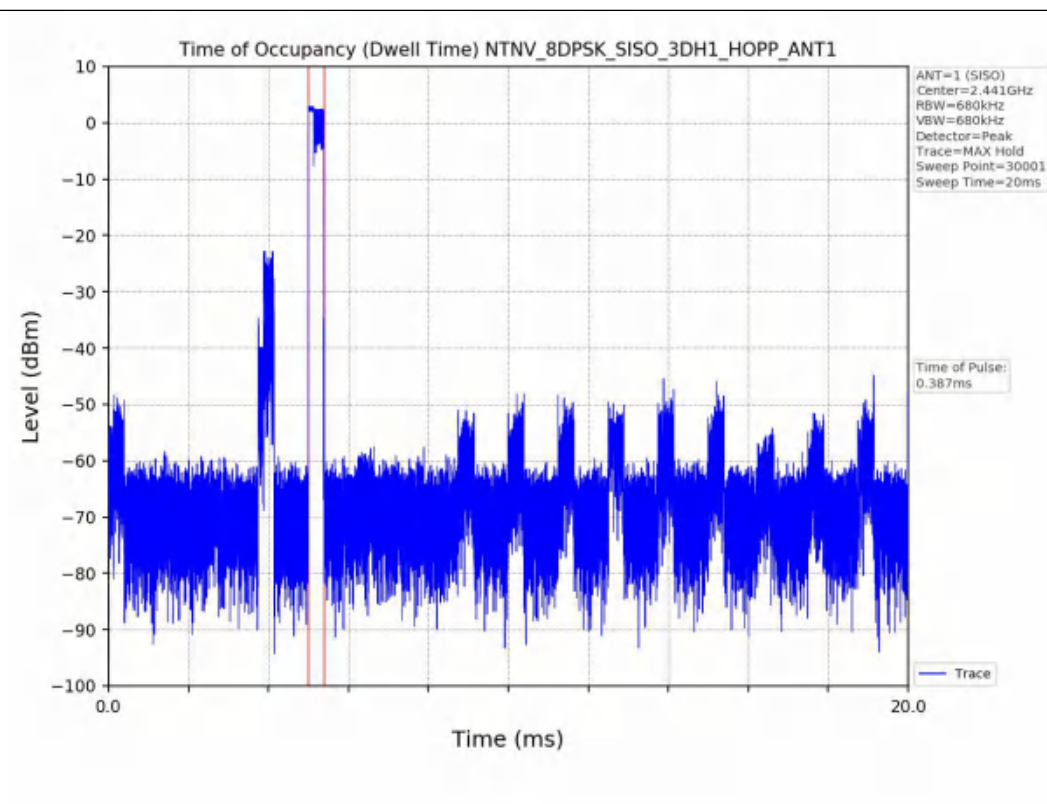
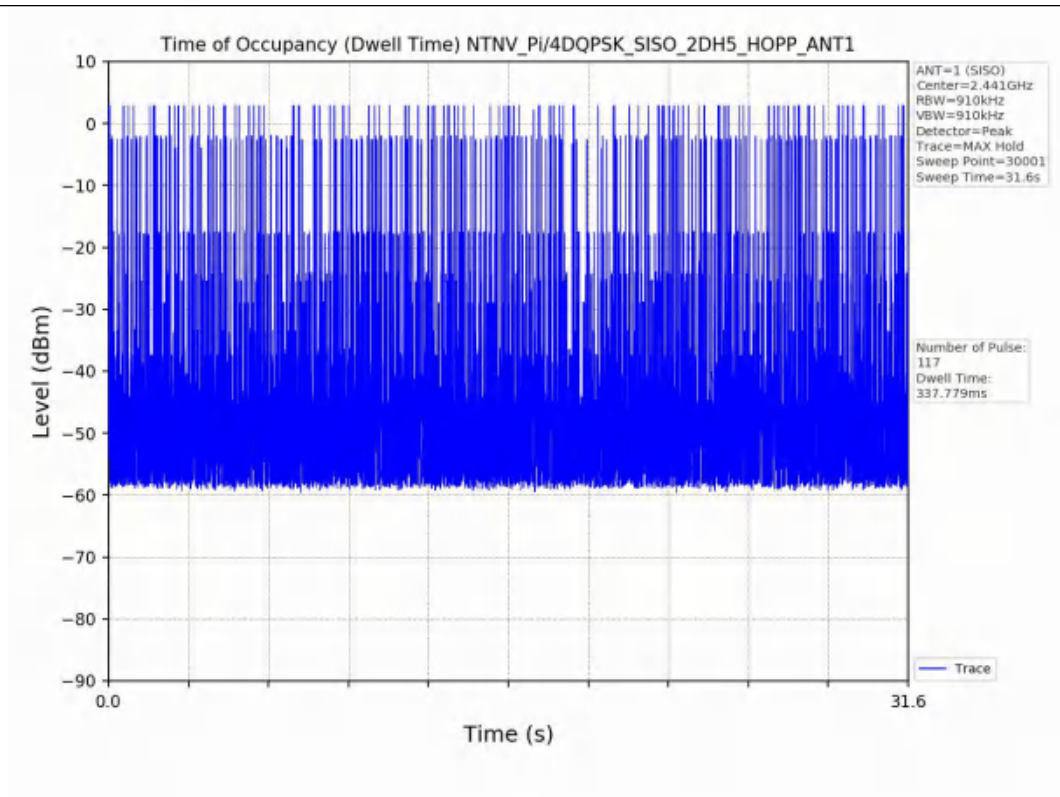


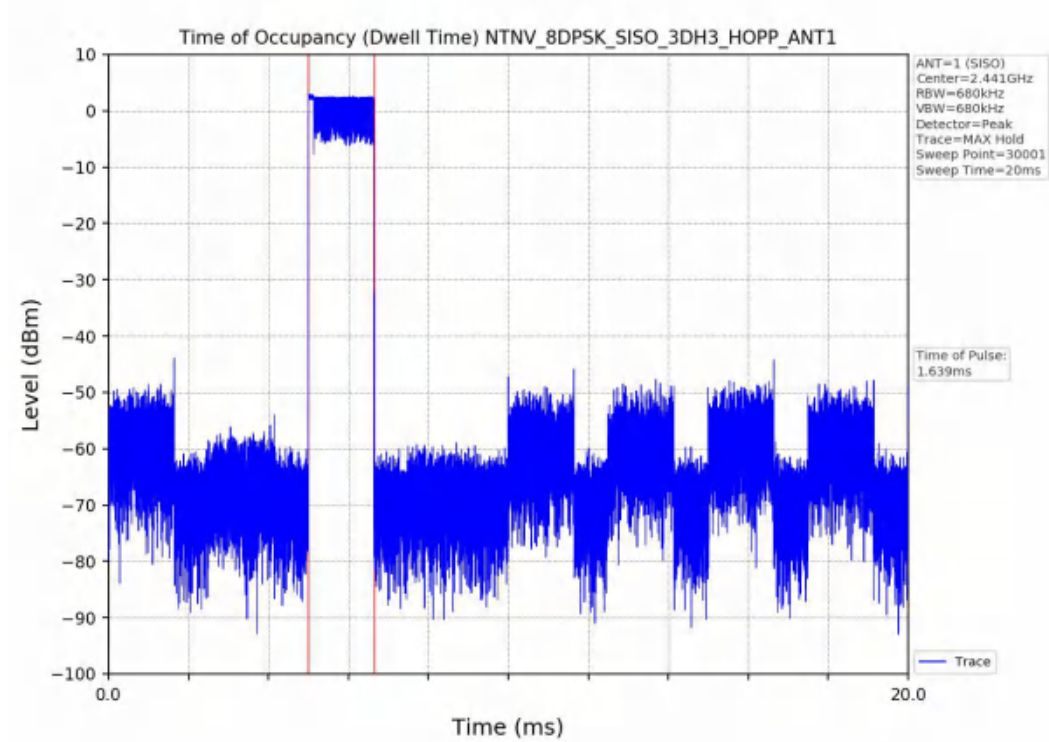
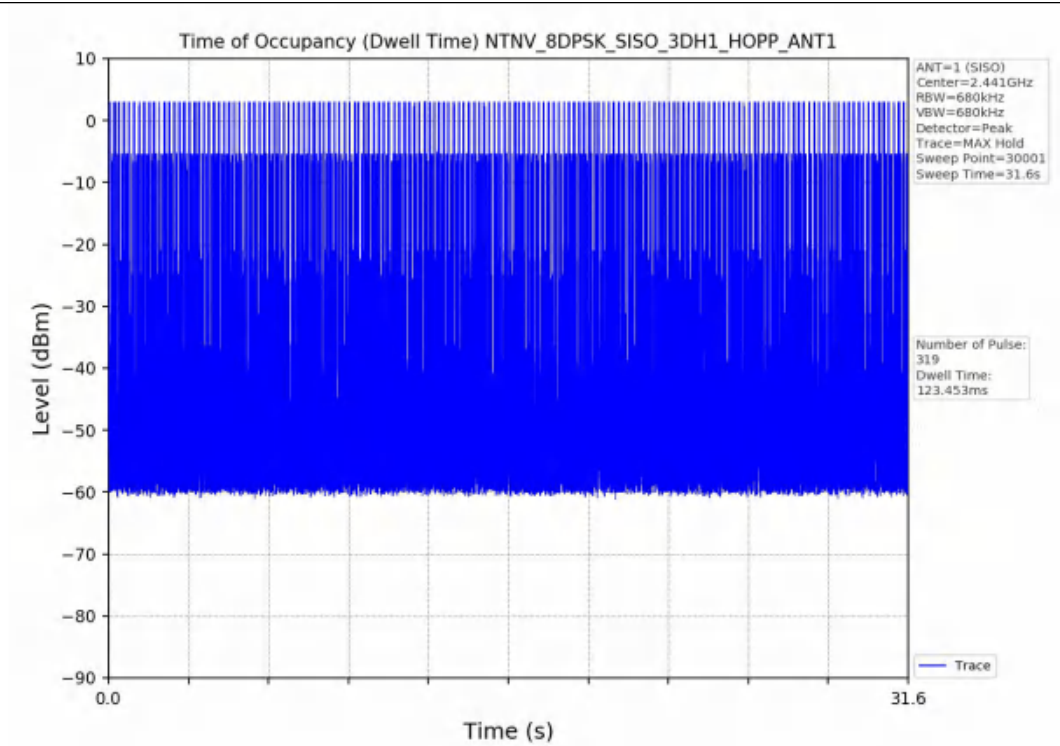


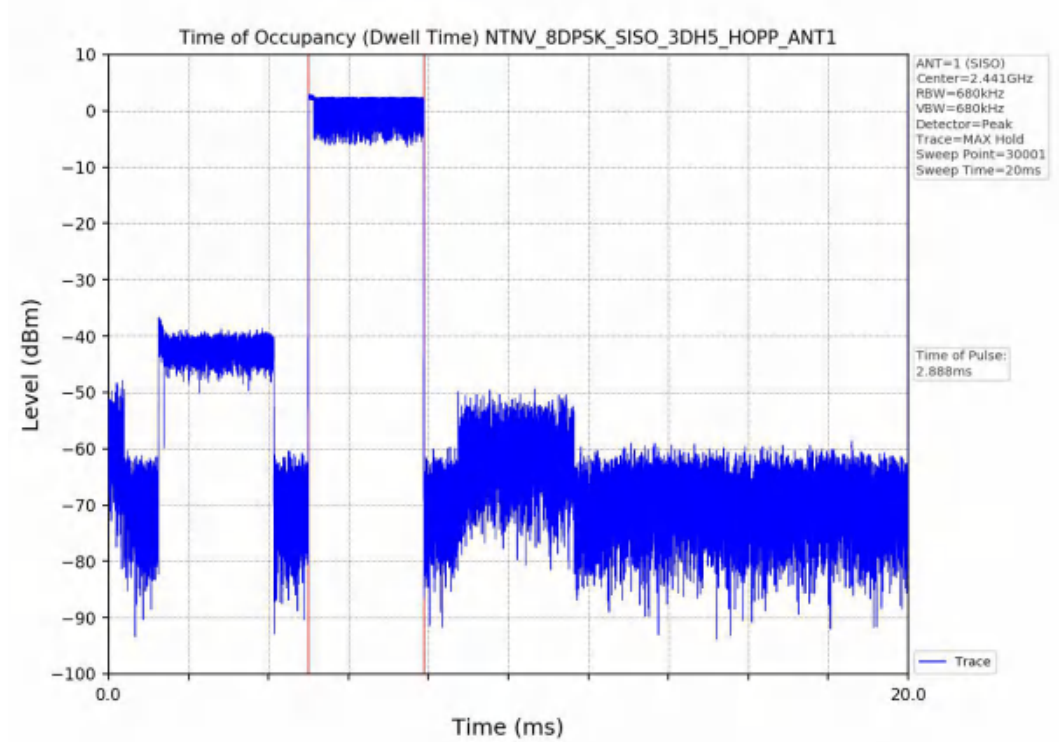
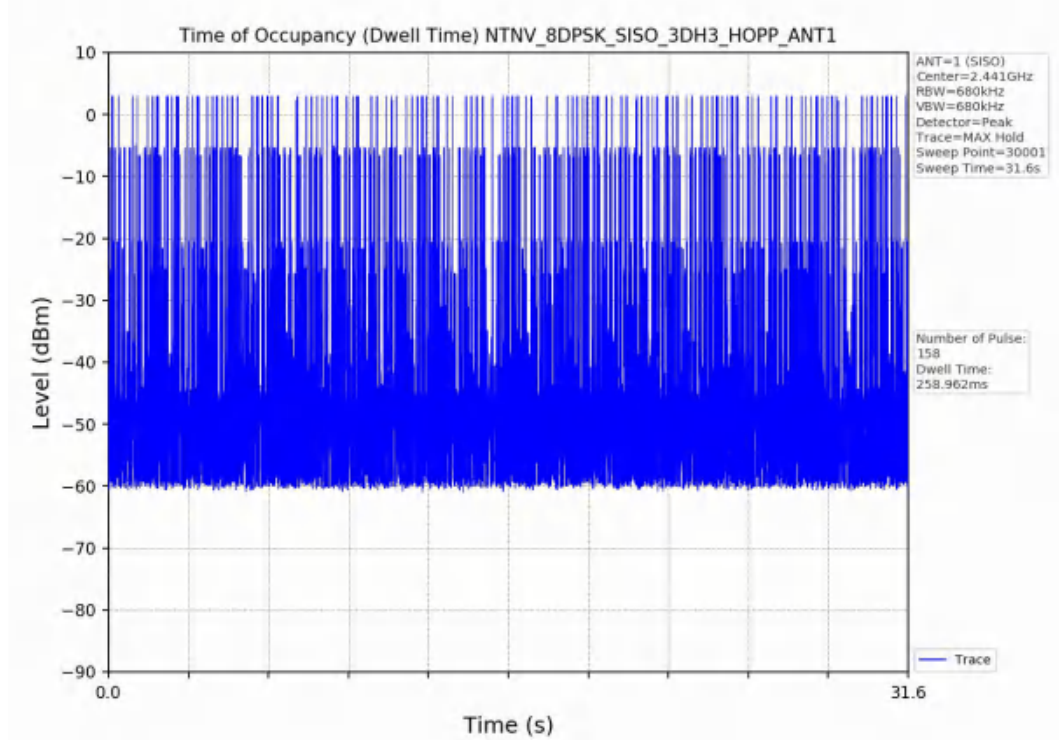


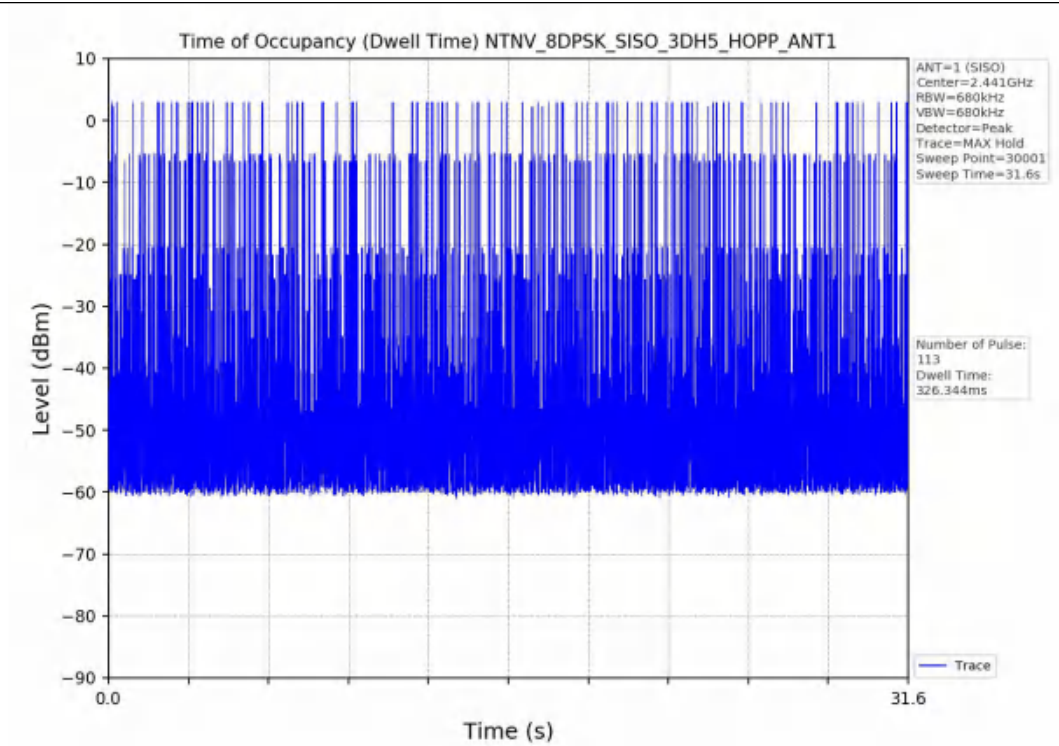










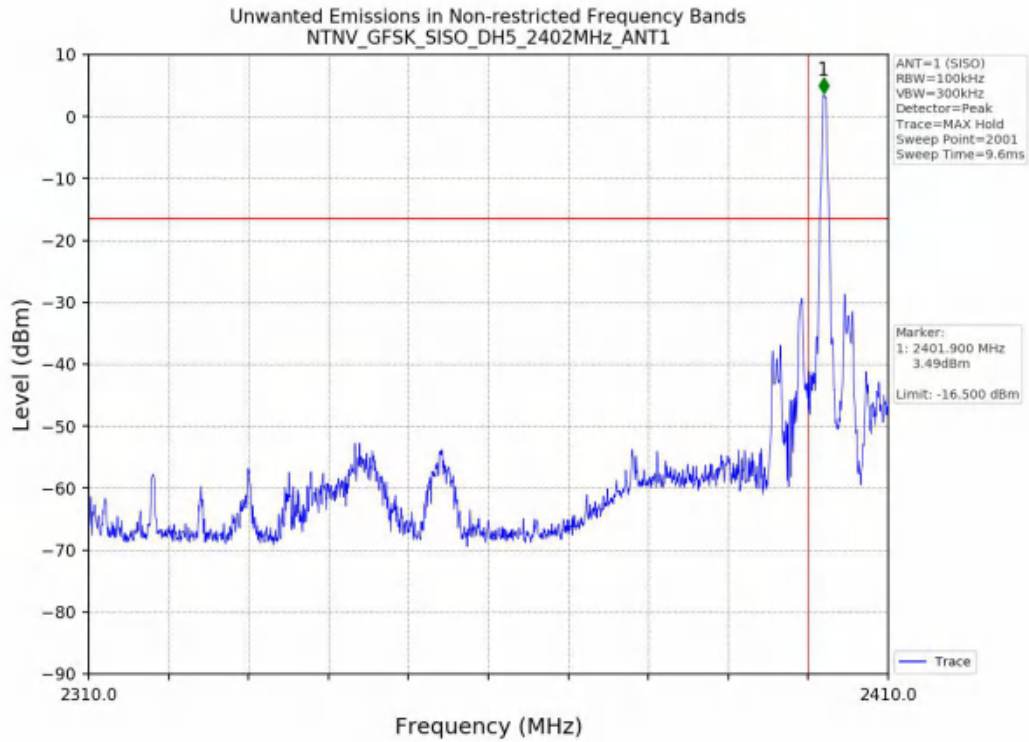
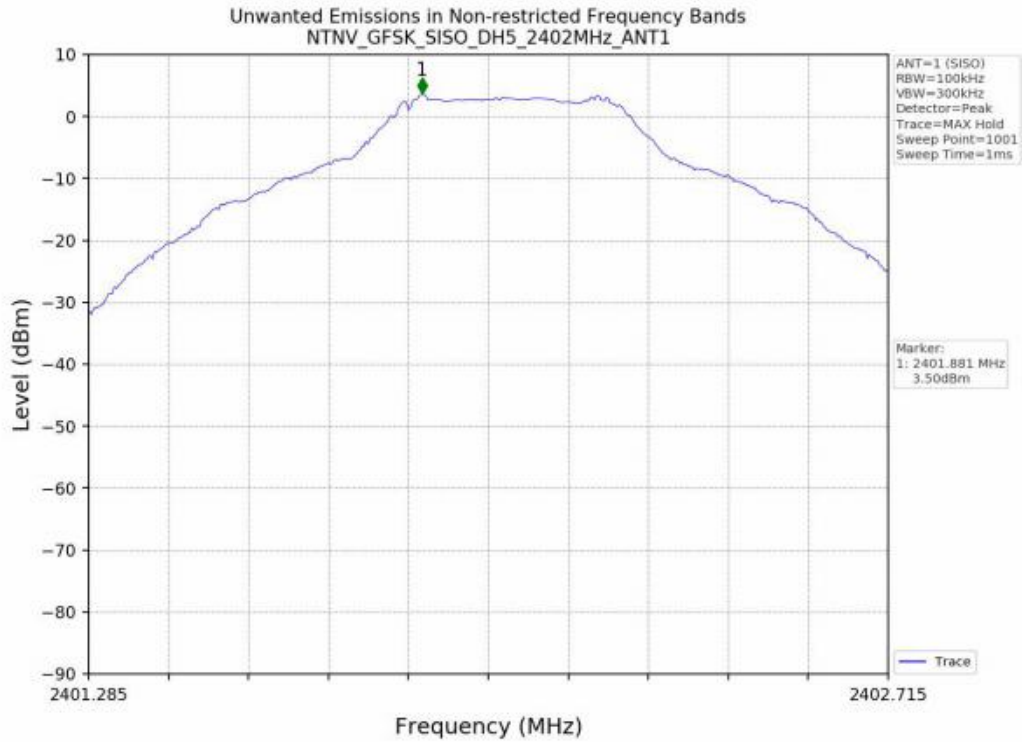


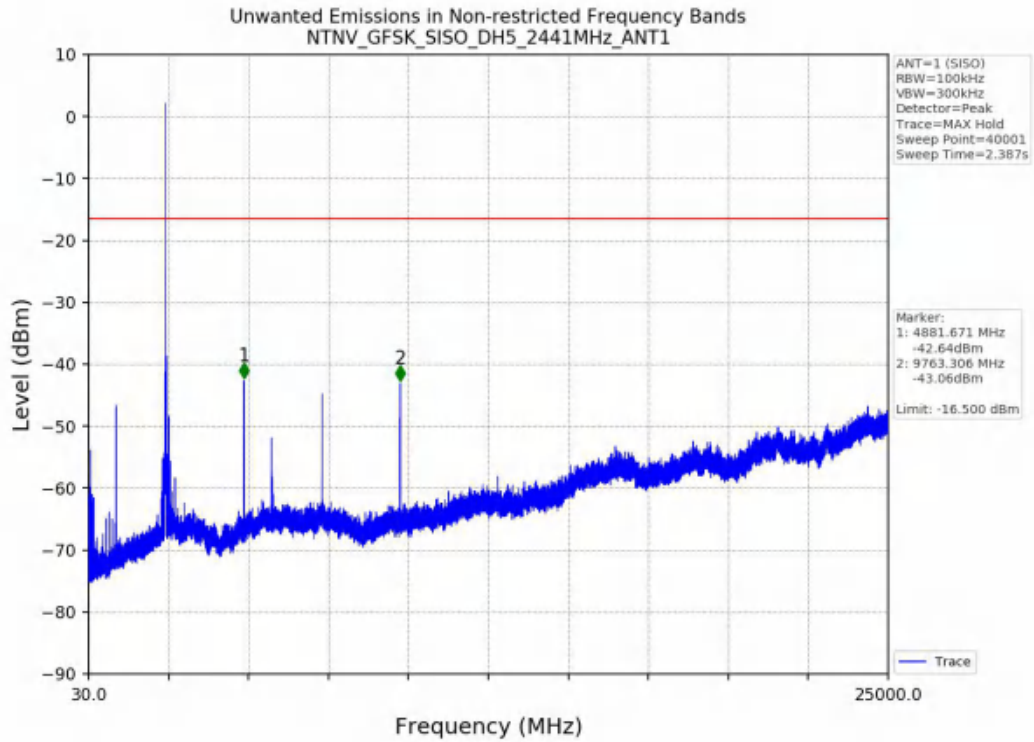
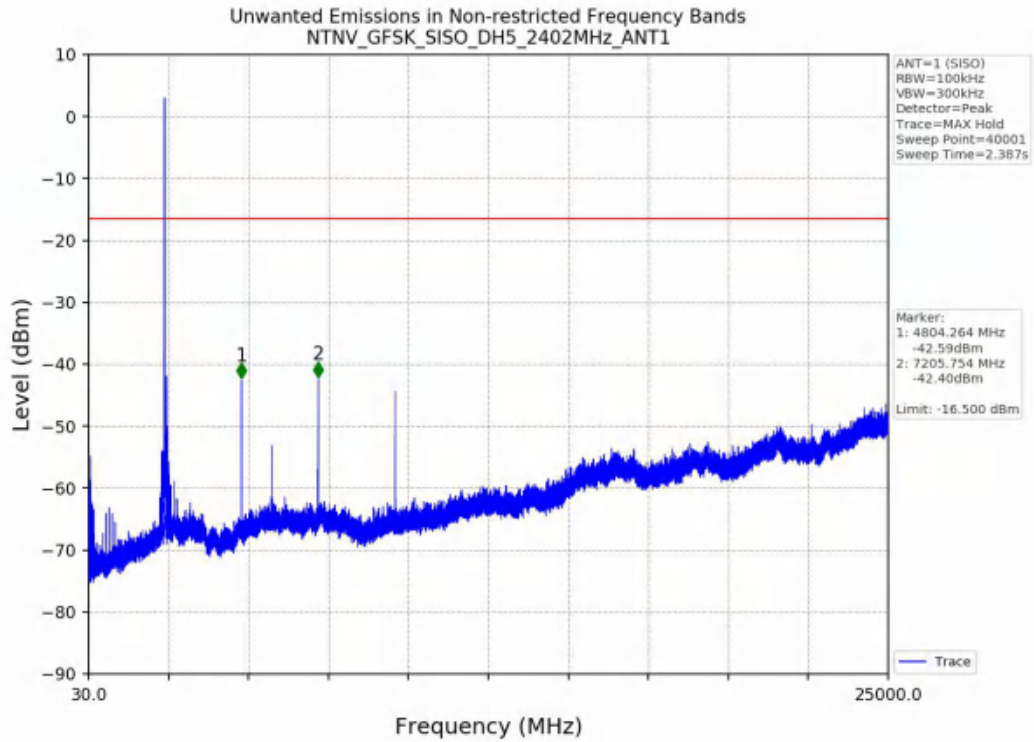
6. Unwanted Emissions in Non-restricted Frequency Bands

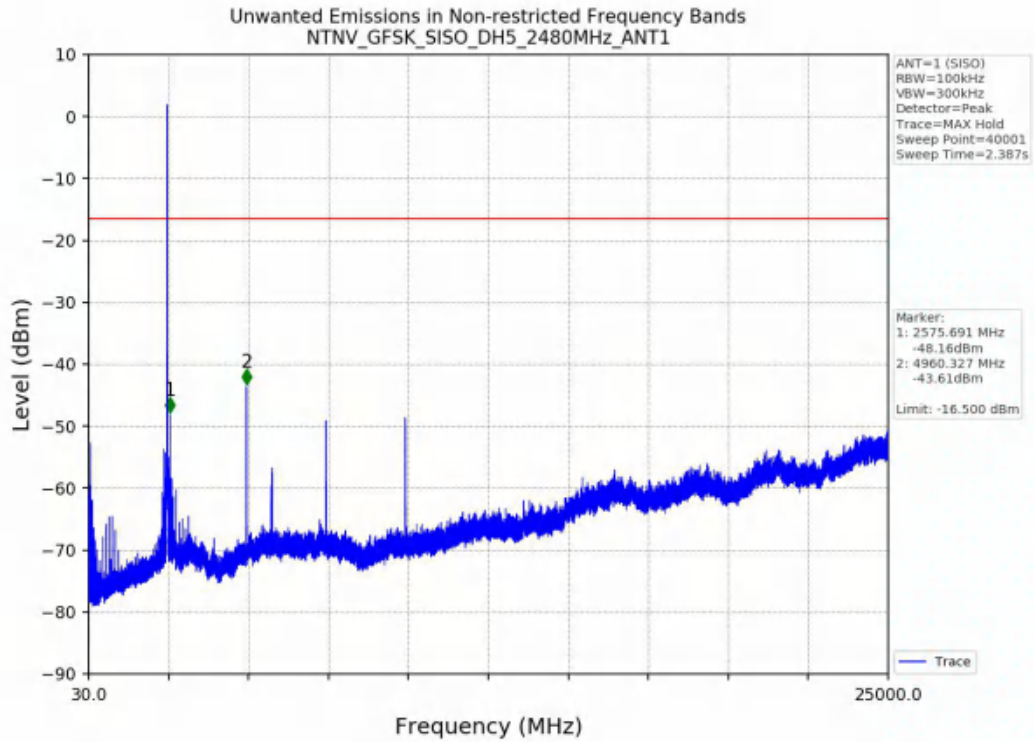
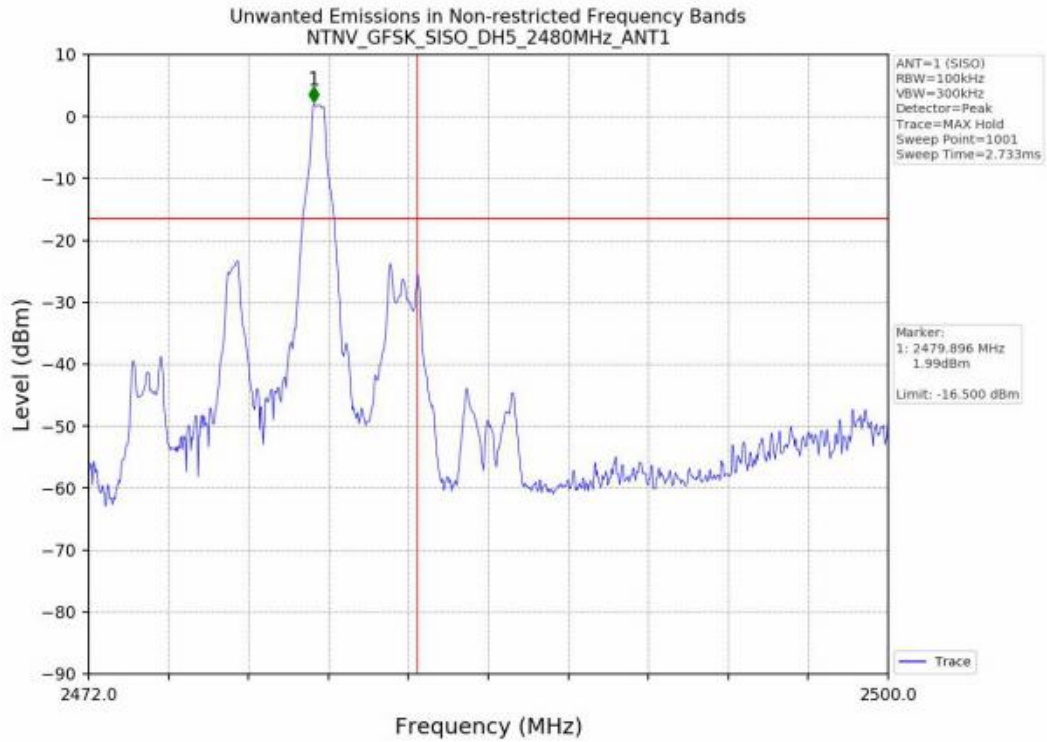
6.1 Test Result

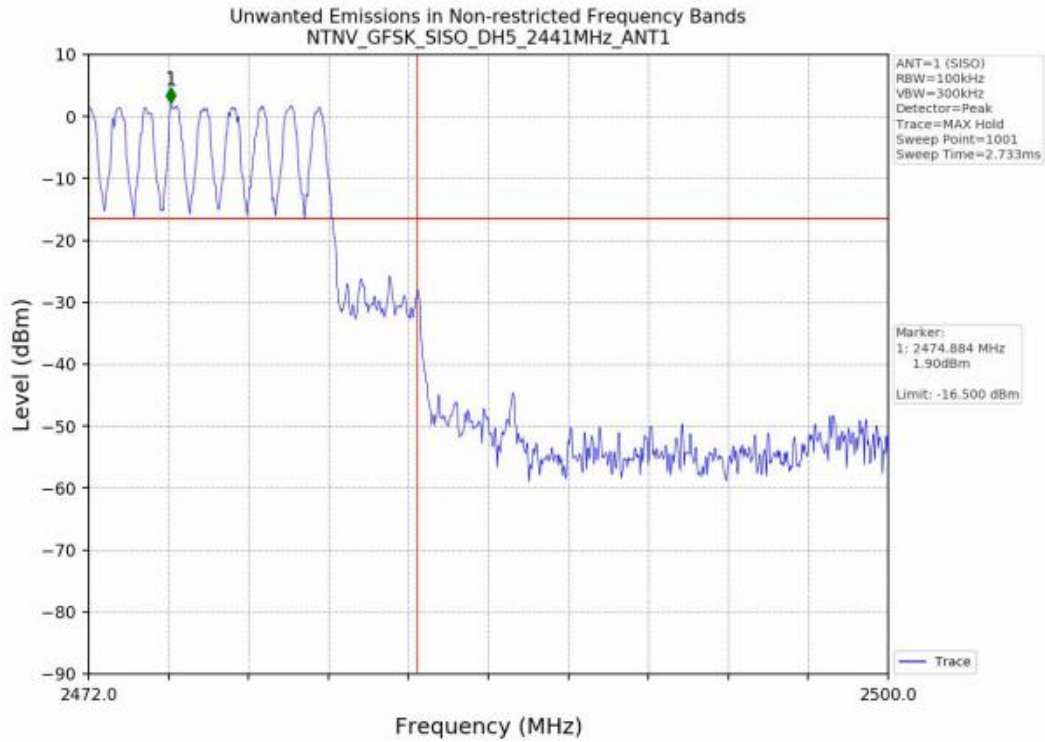
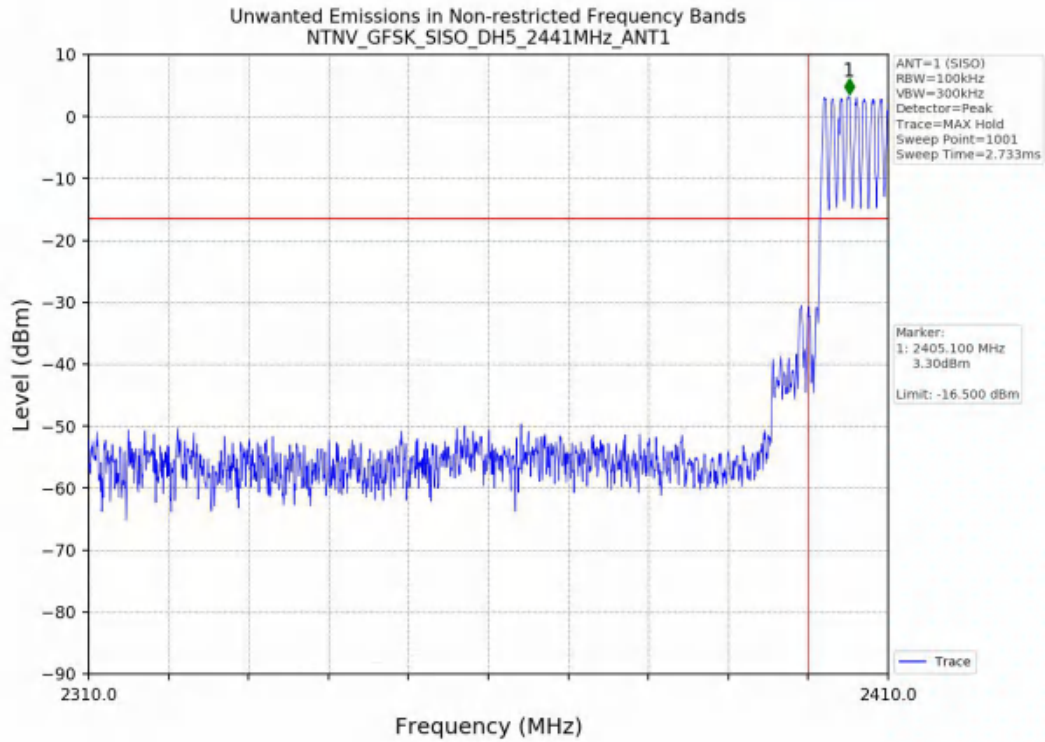
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-16.50	PASS
	2441	SISO	1	Refer to test graph	-16.50	PASS
	2480	SISO	1	Refer to test graph	-16.50	PASS
	Hopping	SISO	1	Refer to test graph	-16.50	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-16.51	PASS
	2441	SISO	1	Refer to test graph	-16.51	PASS
	2480	SISO	1	Refer to test graph	-16.51	PASS
	Hopping	SISO	1	Refer to test graph	-16.51	PASS
8DPSK	2402	SISO	1	Refer to test graph	-16.58	PASS
	2441	SISO	1	Refer to test graph	-16.58	PASS
	2480	SISO	1	Refer to test graph	-16.58	PASS
	Hopping	SISO	1	Refer to test graph	-16.58	PASS

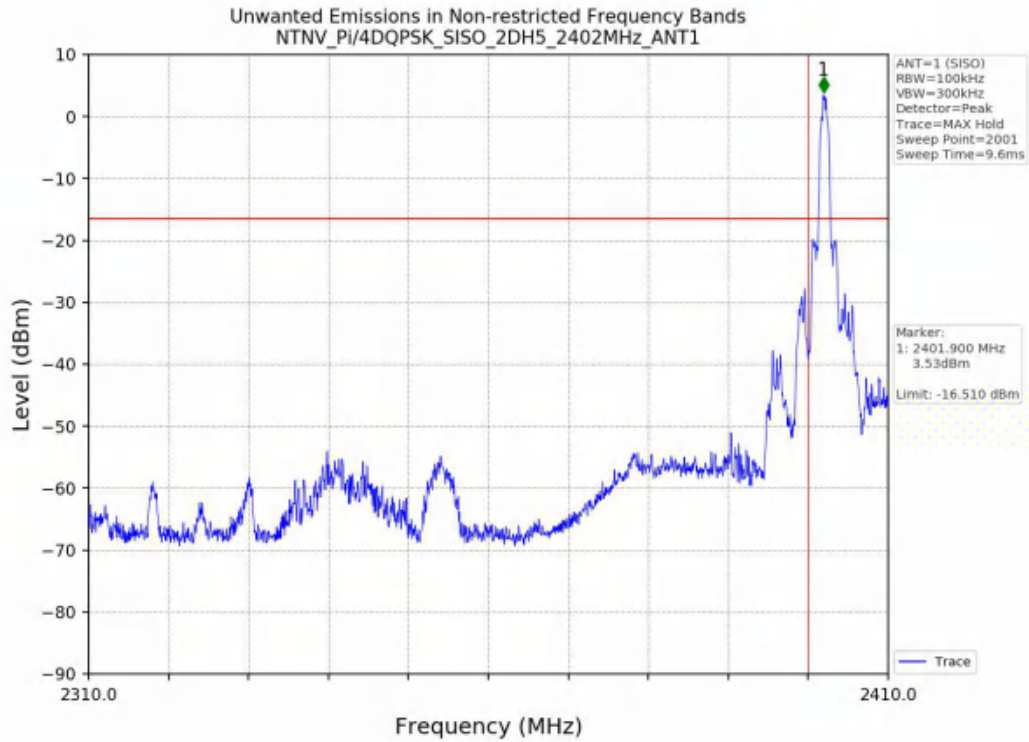
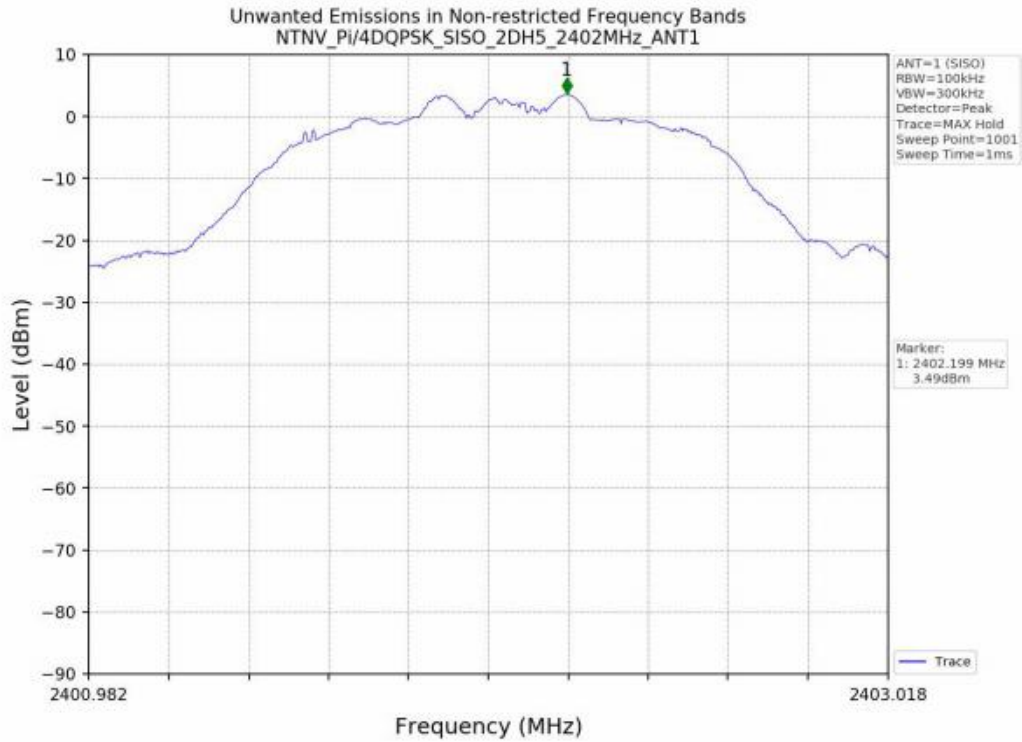
6.2 Test Graph

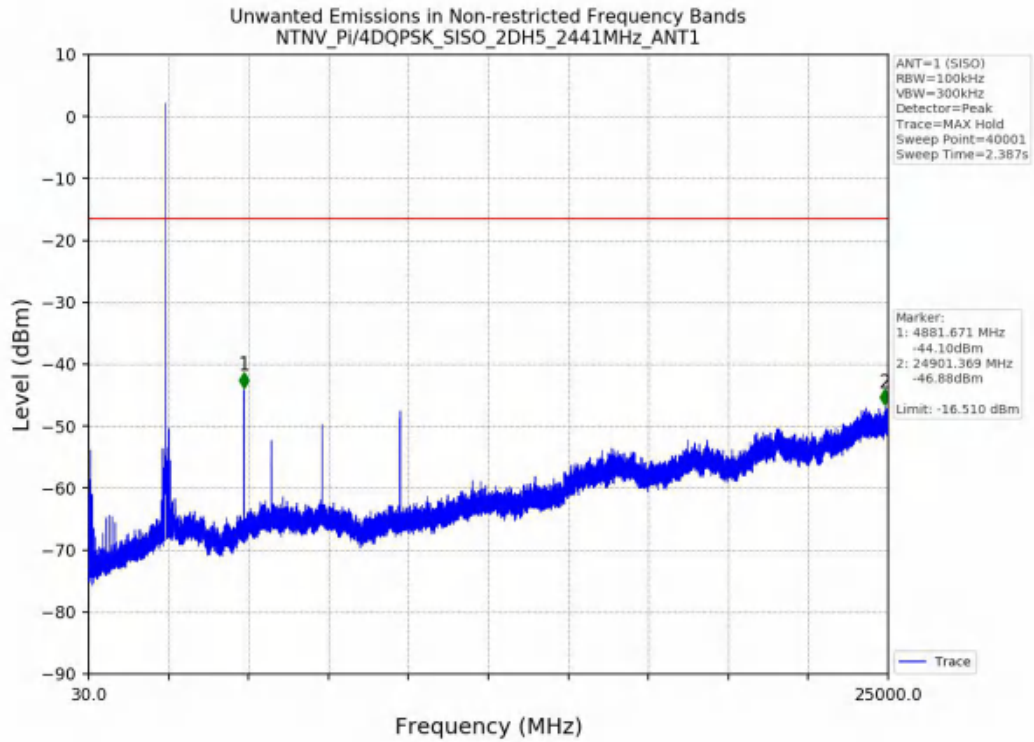
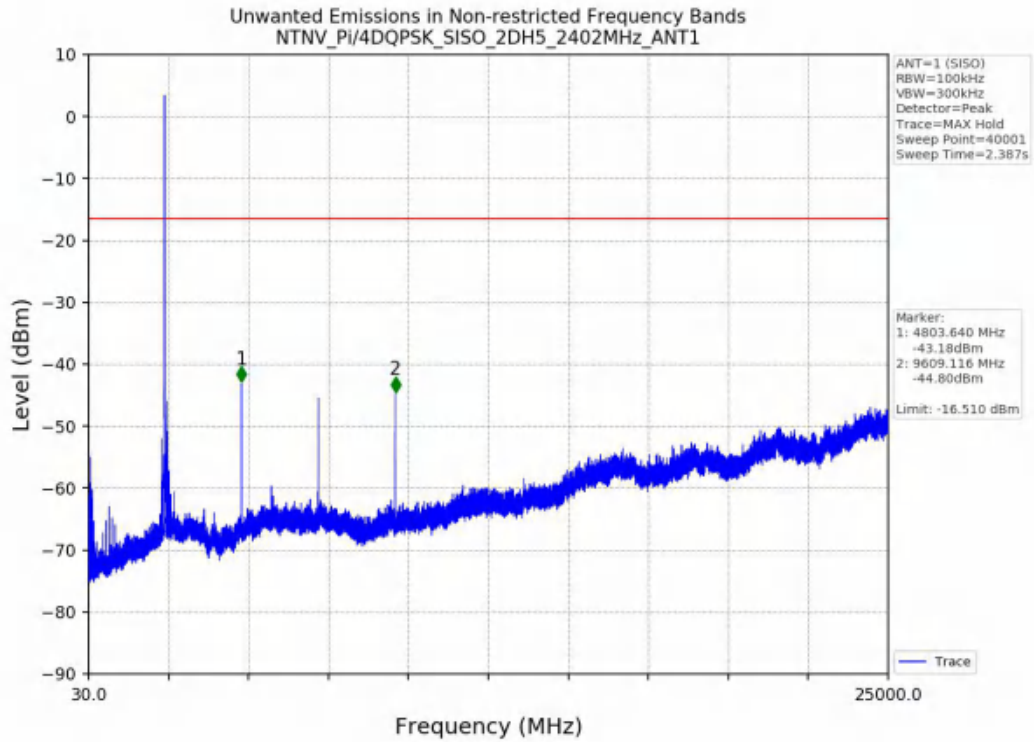


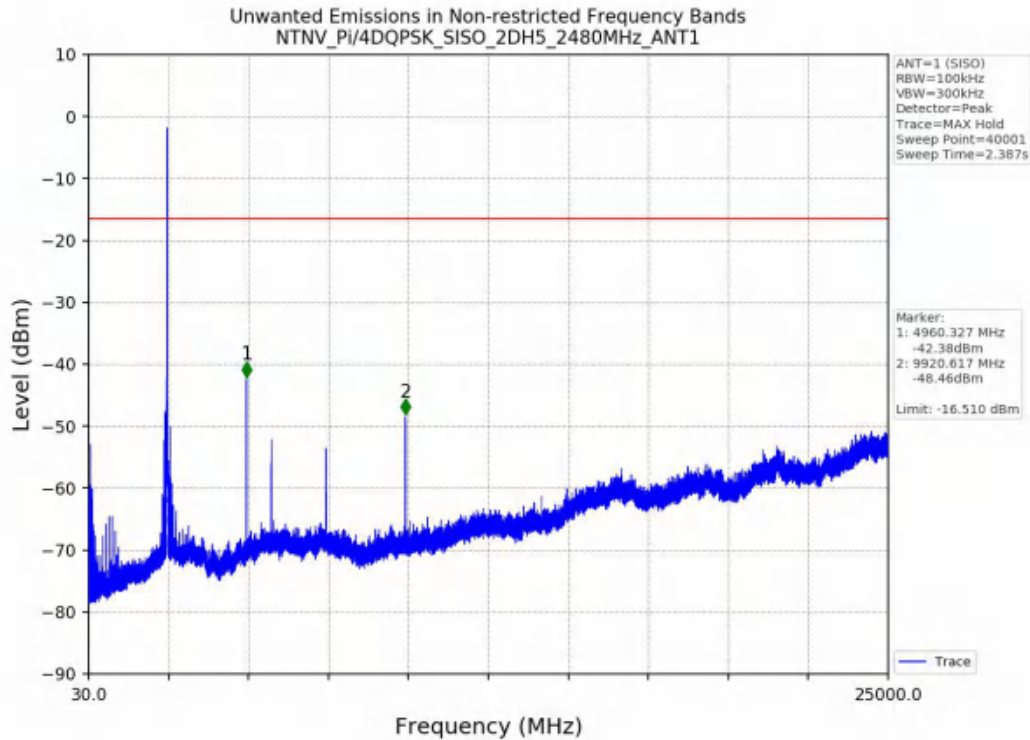
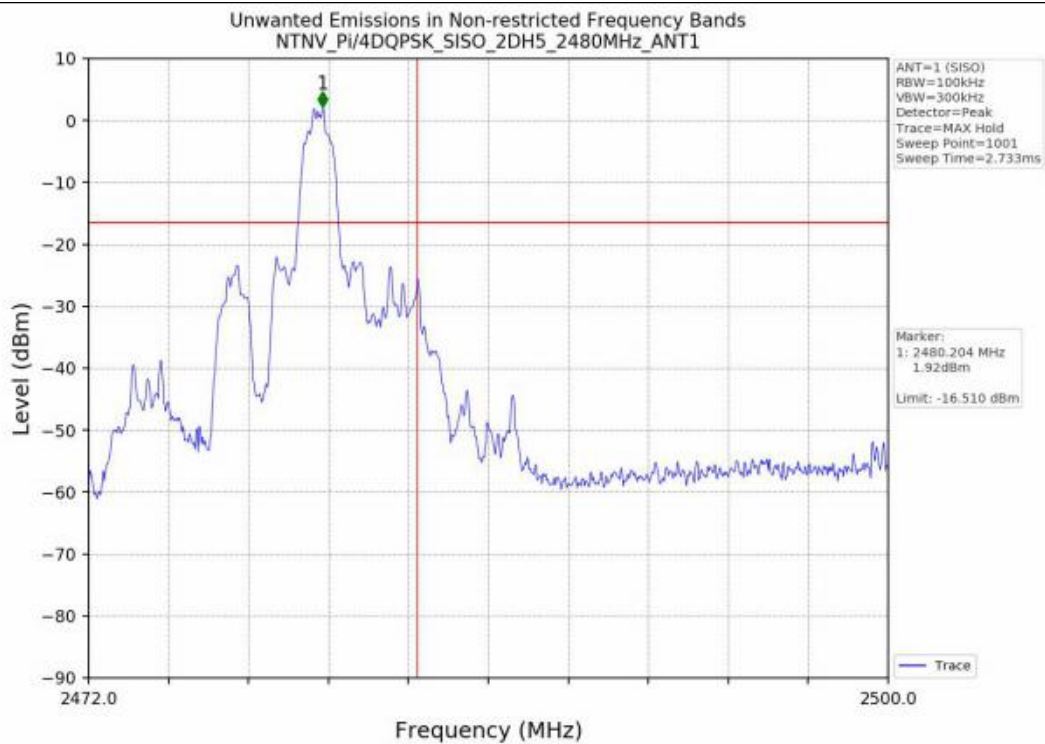


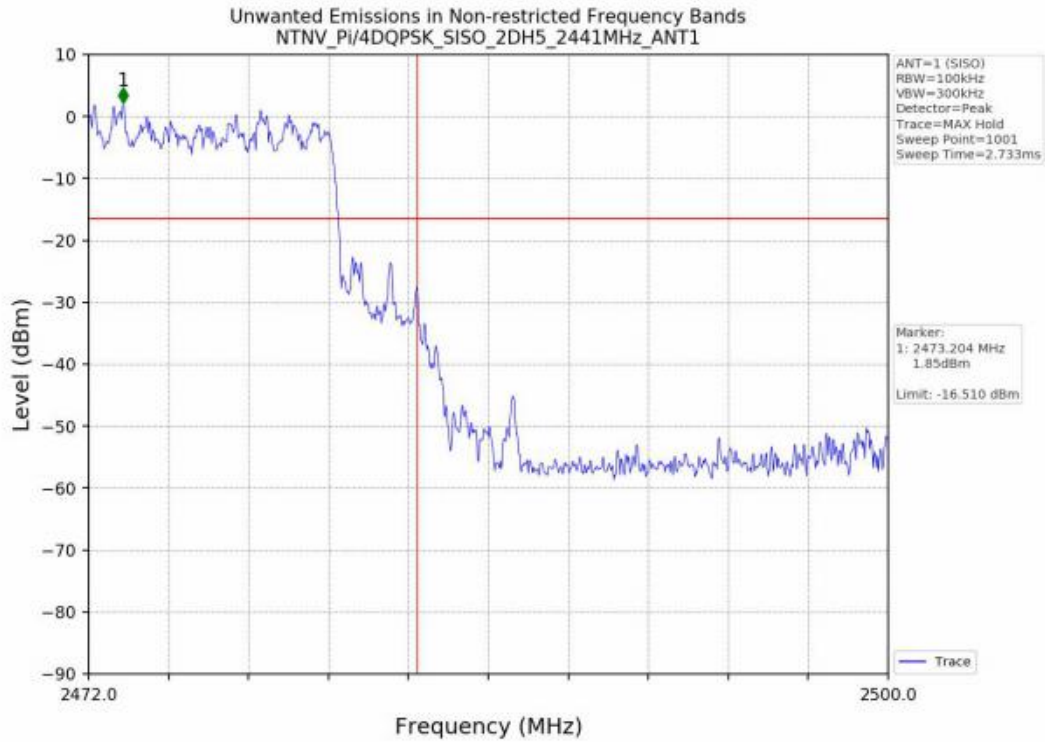
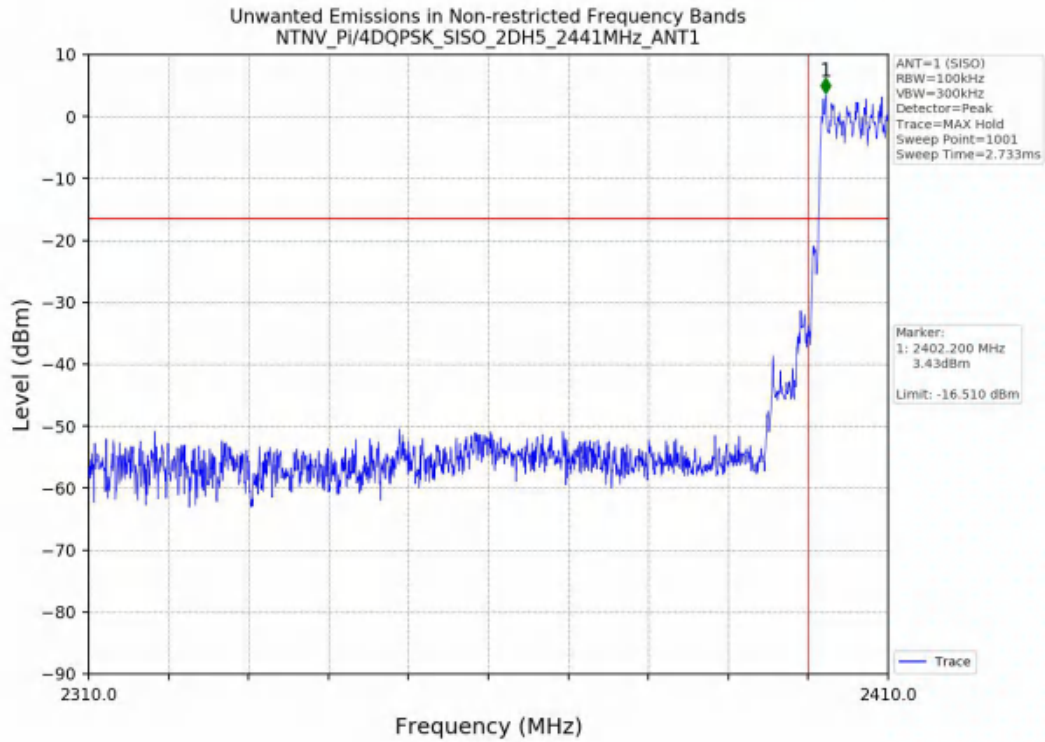


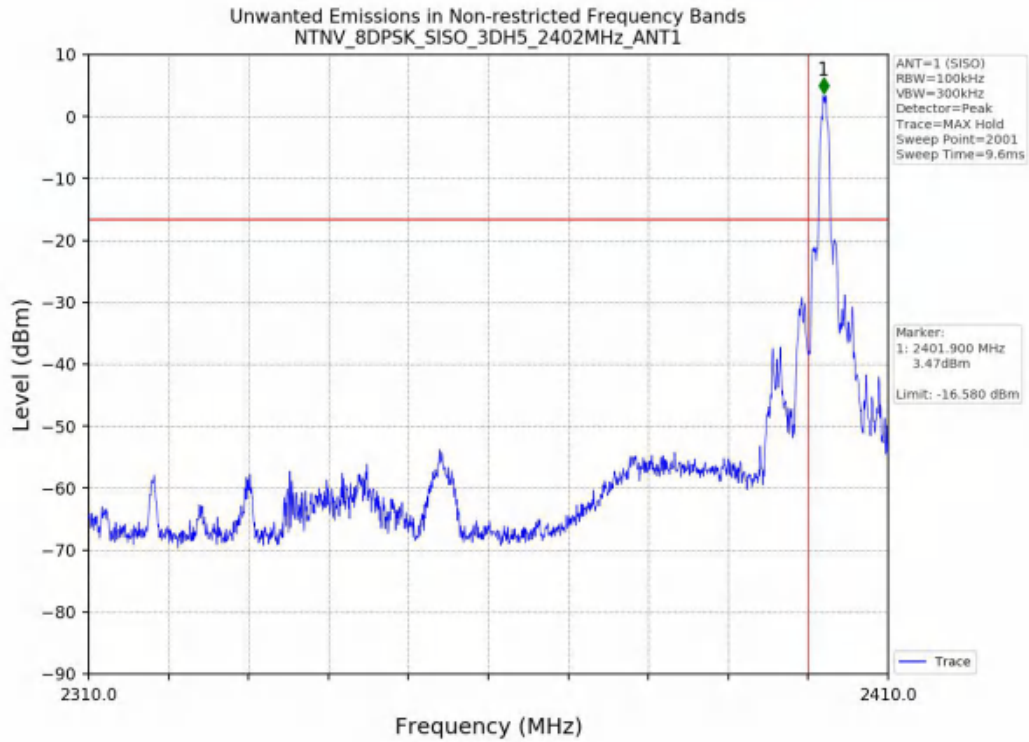
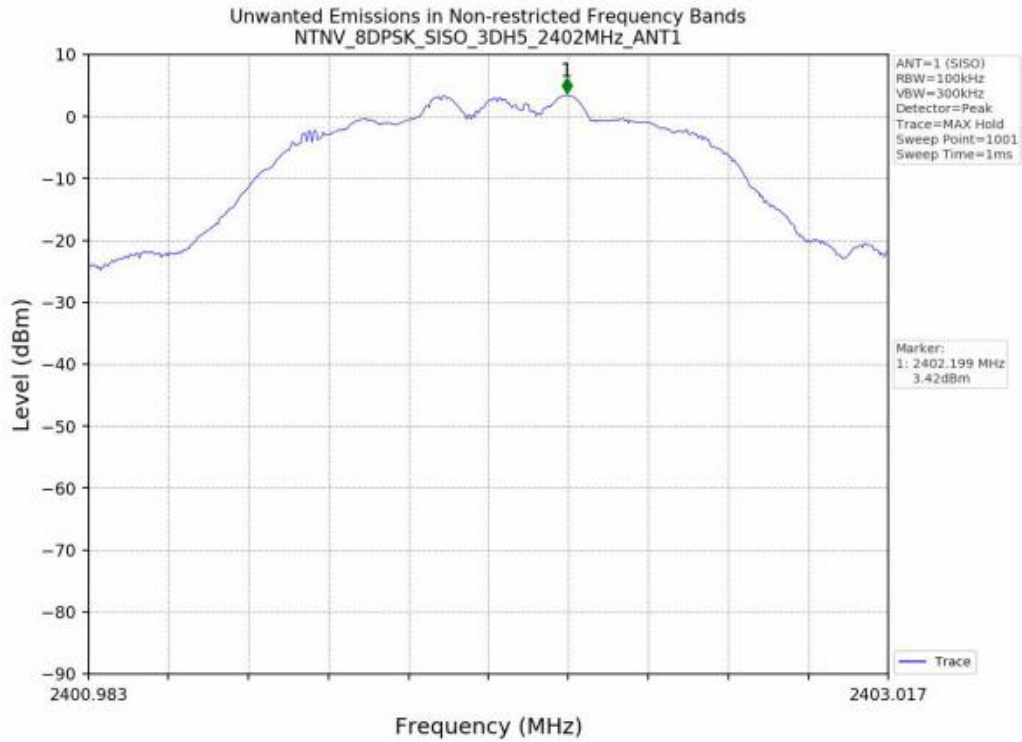


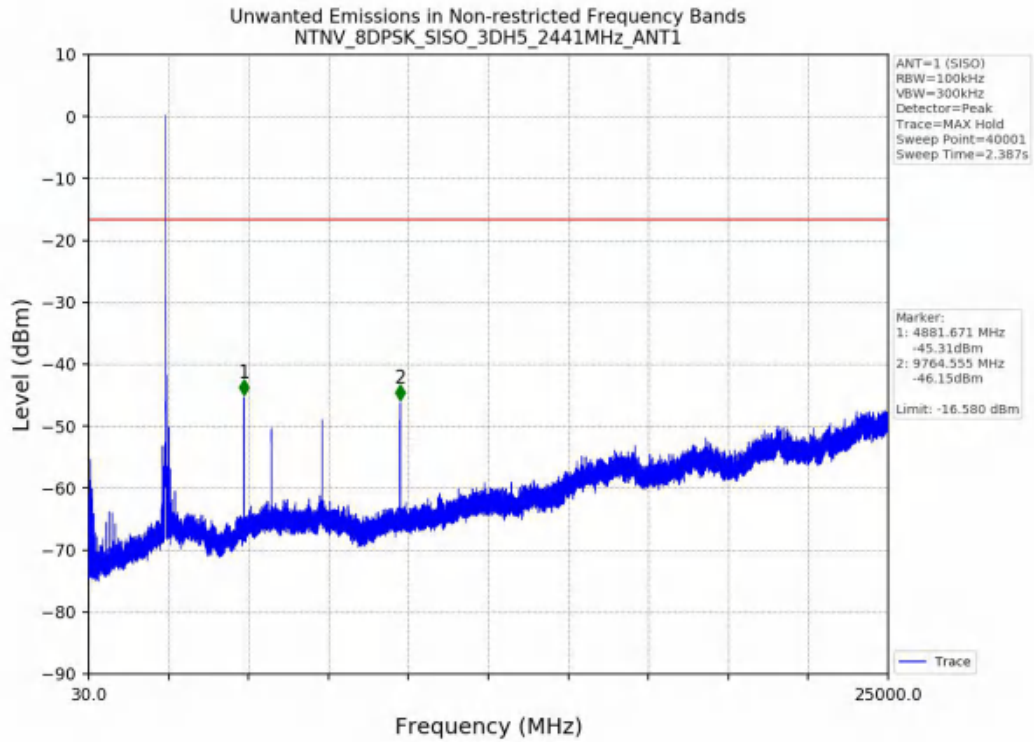
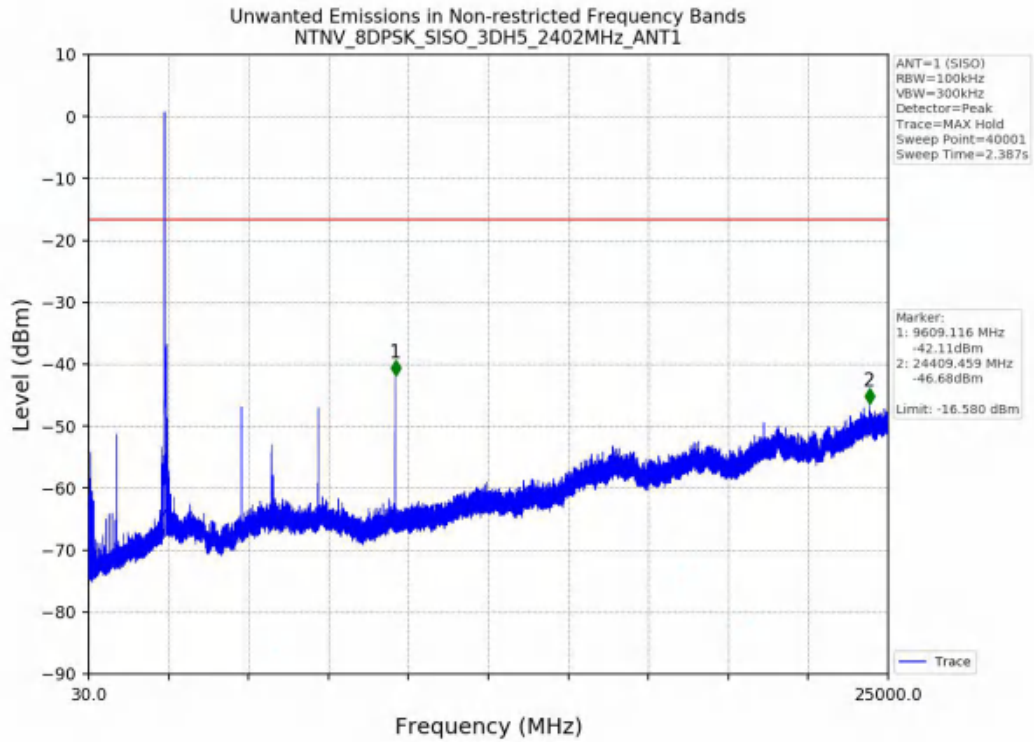


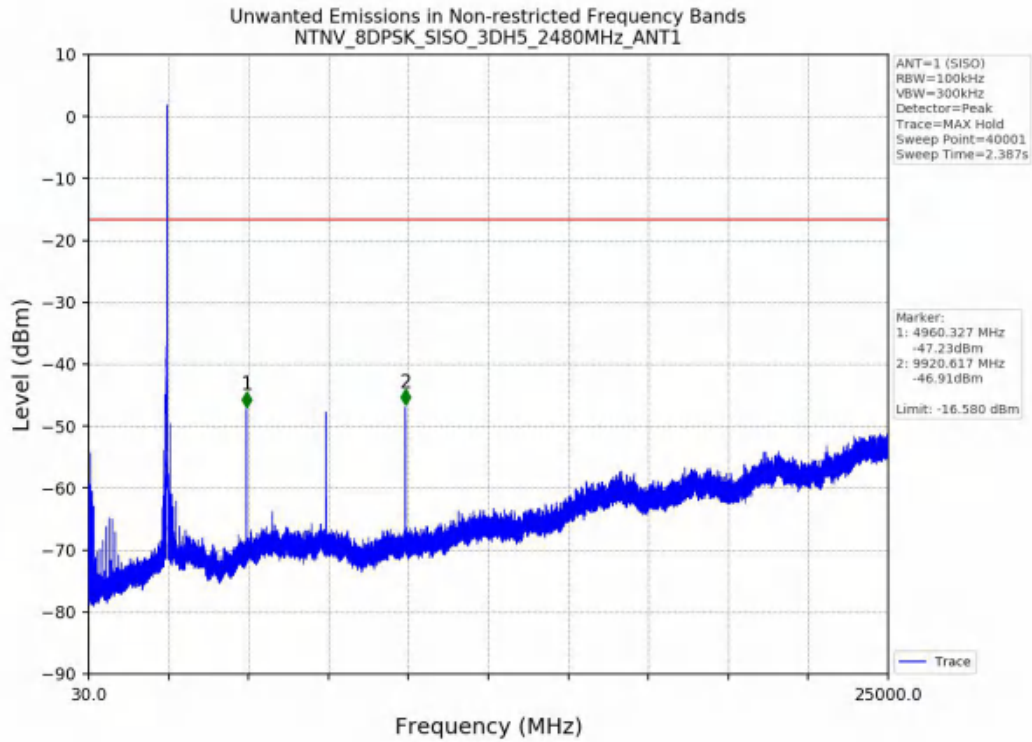
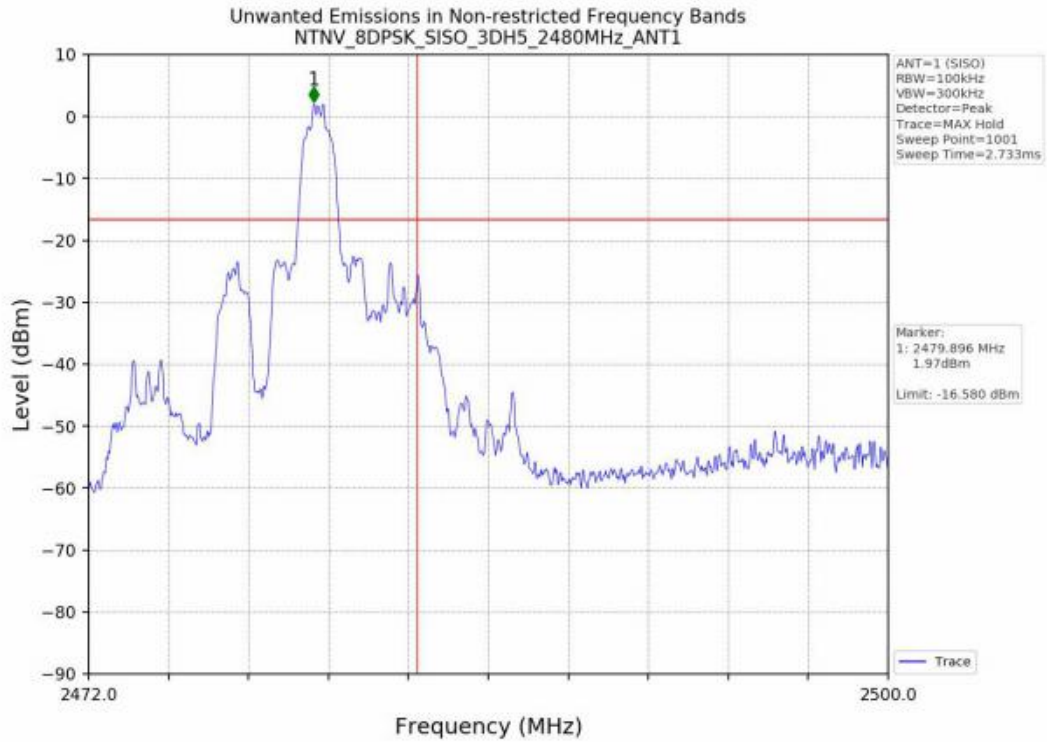


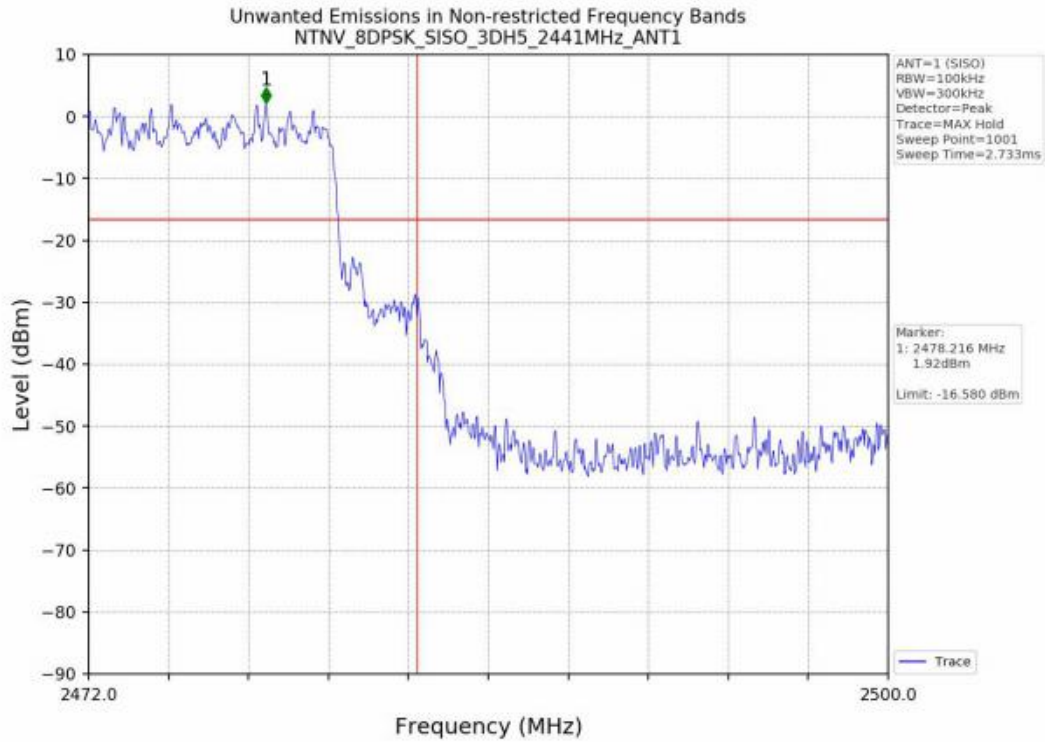
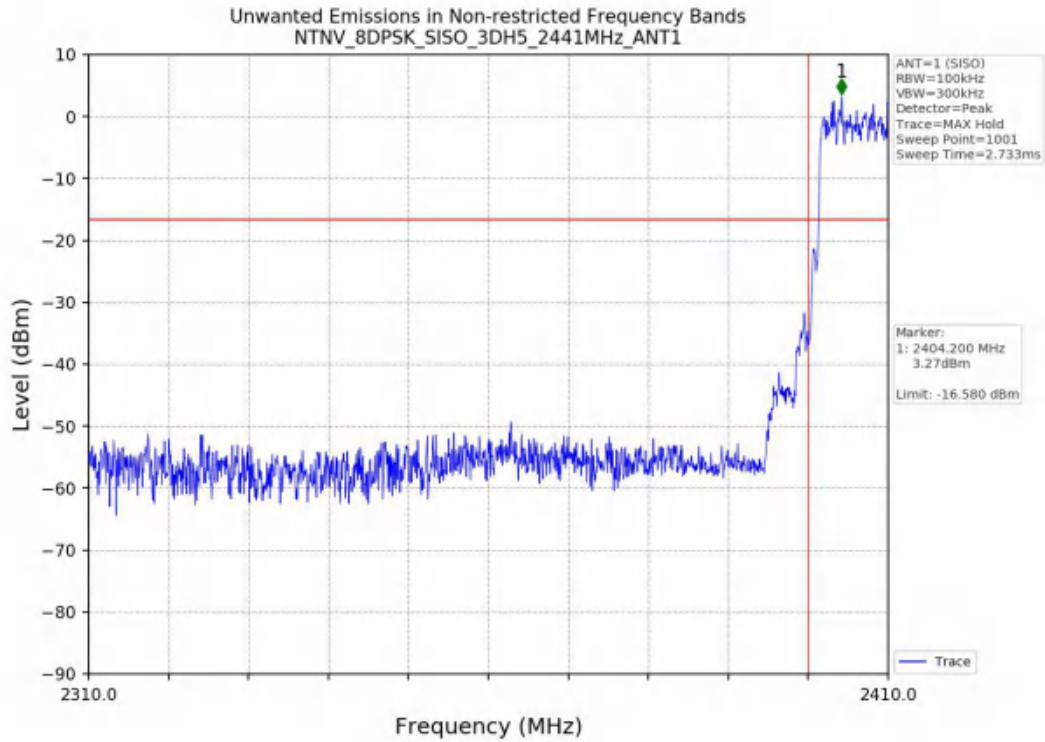












7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2402.04	2400-2483.5	PASS
	2441	SISO	1	2441.04	2400-2483.5	PASS
	2480	SISO	1	2480.04	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2402.04	2400-2483.5	PASS
	2441	SISO	1	2441.04	2400-2483.5	PASS
	2480	SISO	1	2480.05	2400-2483.5	PASS

7.2 Test Graph

