

Appendix for 15.247

Product Name: MUSIC PLAYER

Test Model: H2

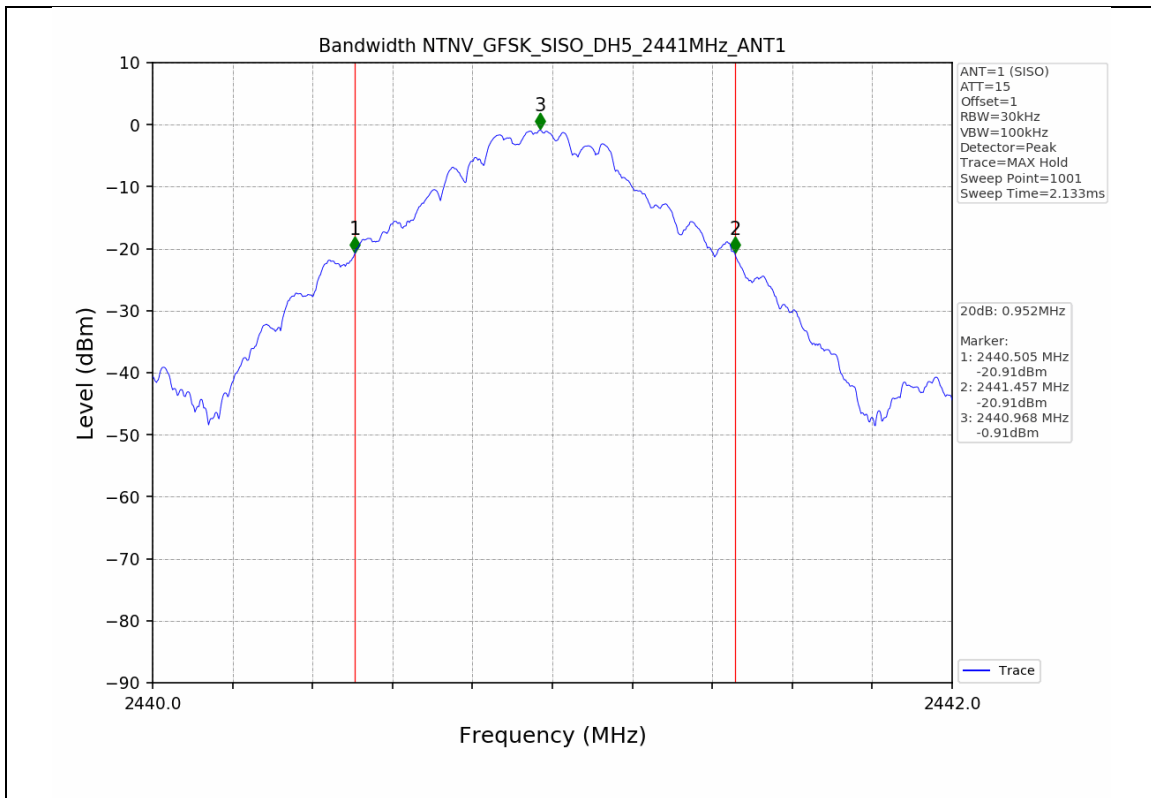
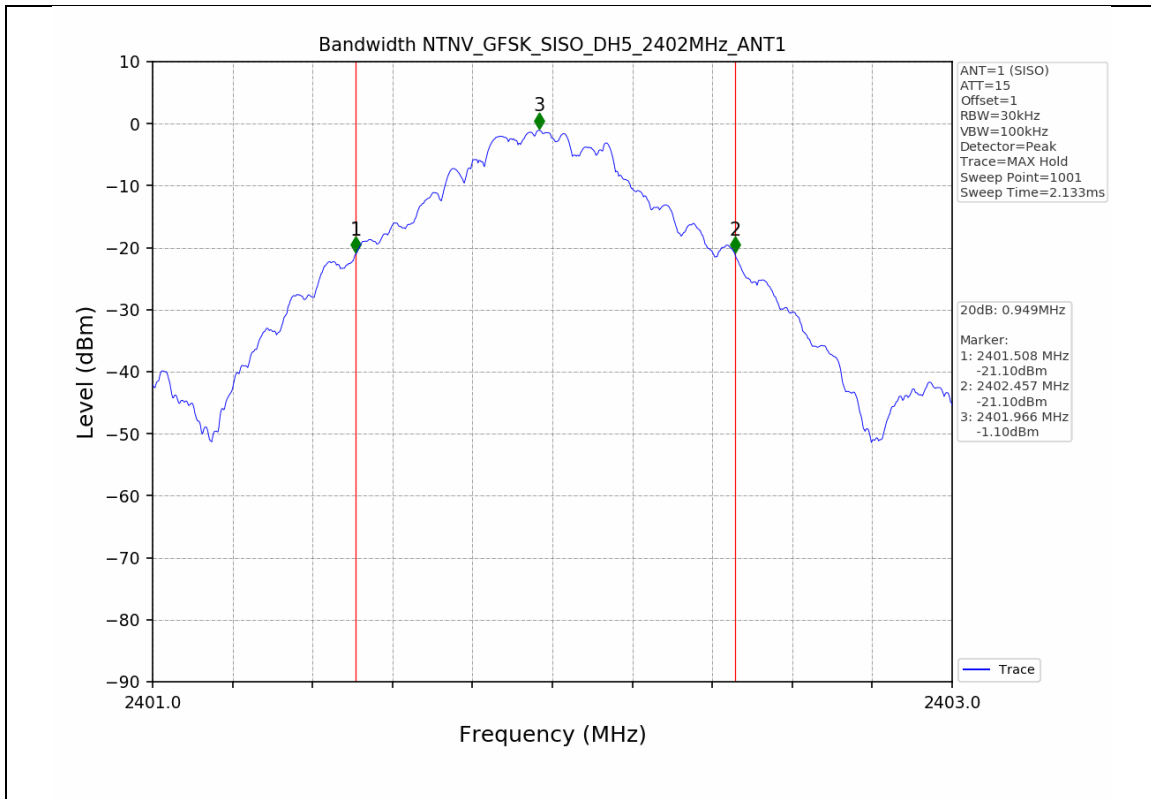
1. Bandwidth

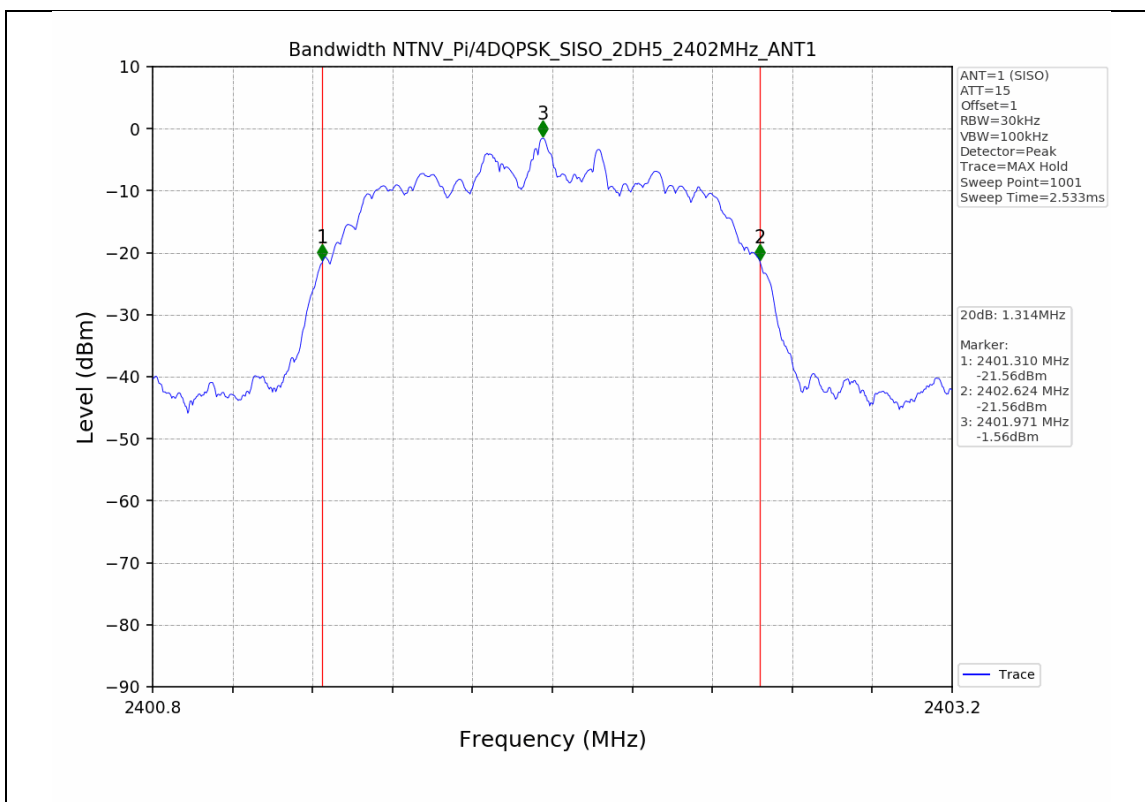
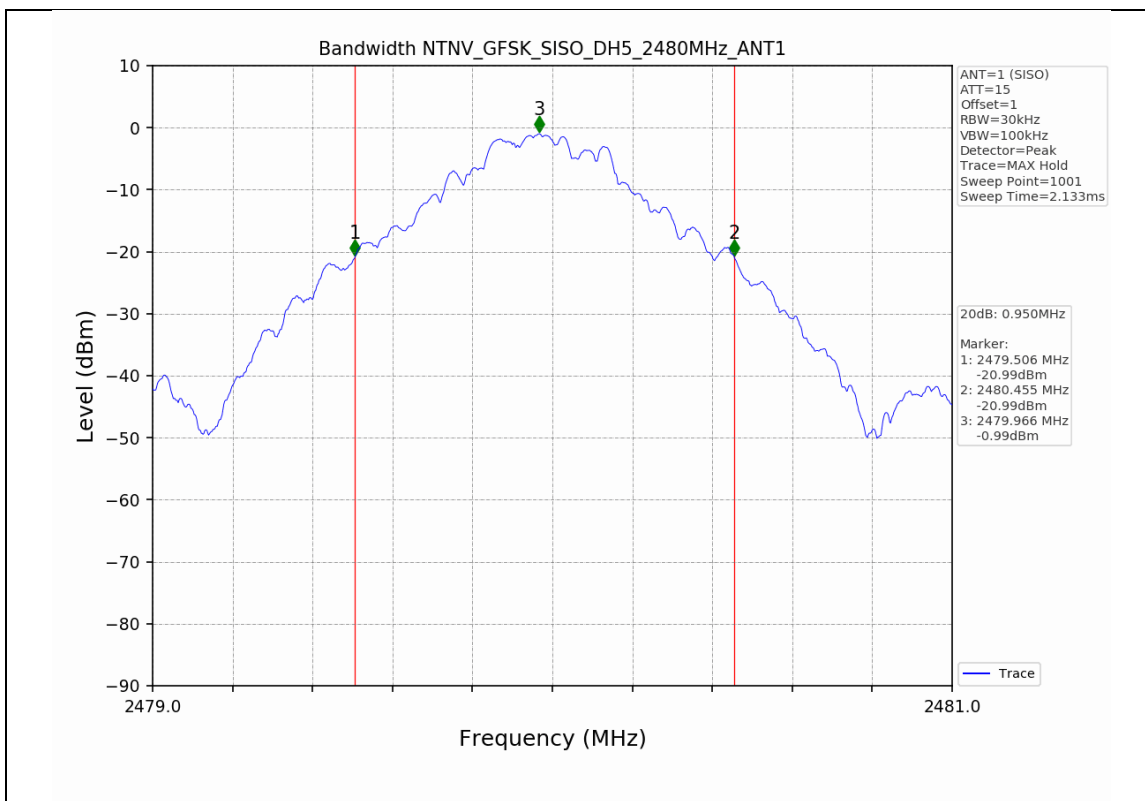
1.1 Test Result

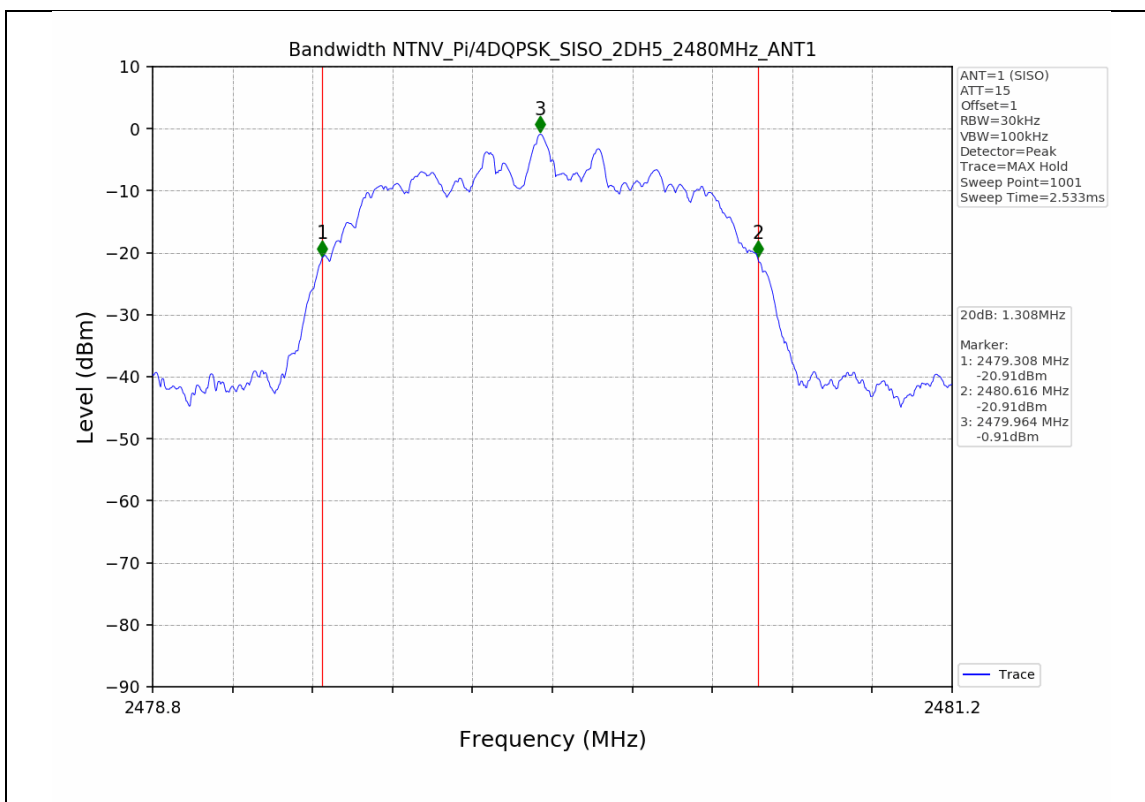
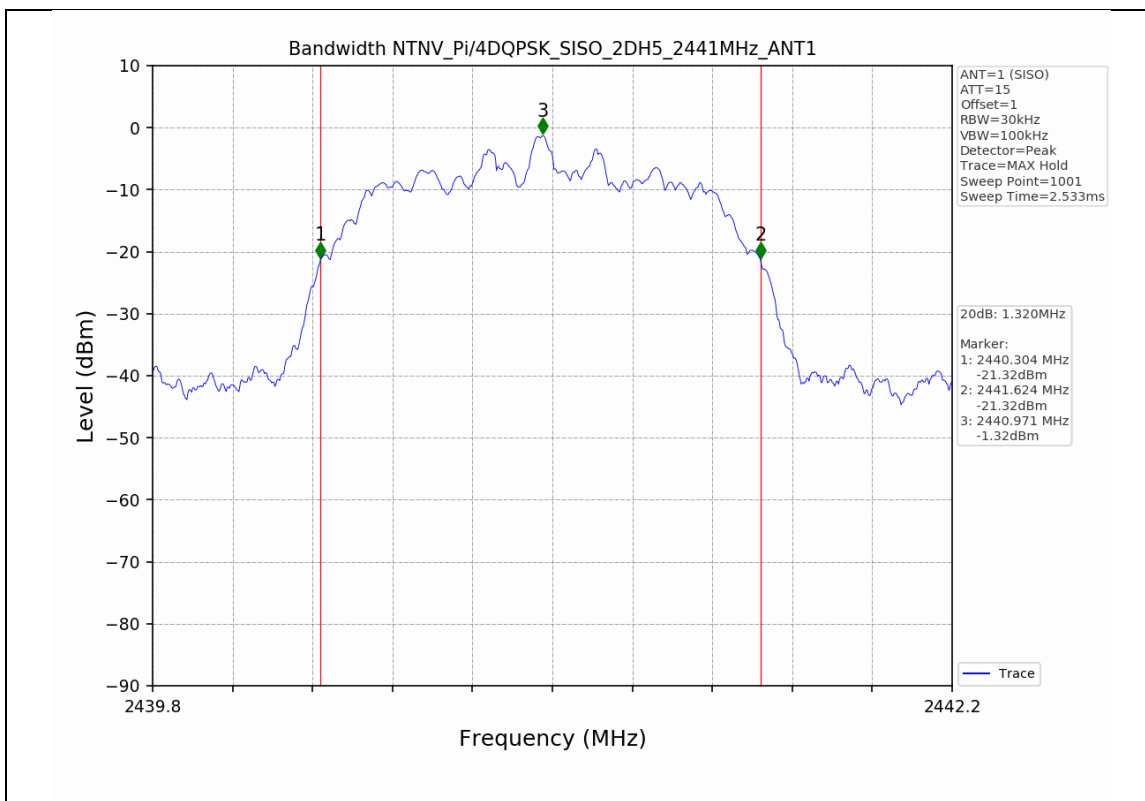
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.949	PASS
	2441	SISO	1	0.952	PASS
	2480	SISO	1	0.950	PASS
Pi/4DQPSK	2402	SISO	1	1.314	PASS
	2441	SISO	1	1.320	PASS
	2480	SISO	1	1.308	PASS
8DPSK	2402	SISO	1	1.310	PASS
	2441	SISO	1	1.309	PASS
	2480	SISO	1	1.310	PASS

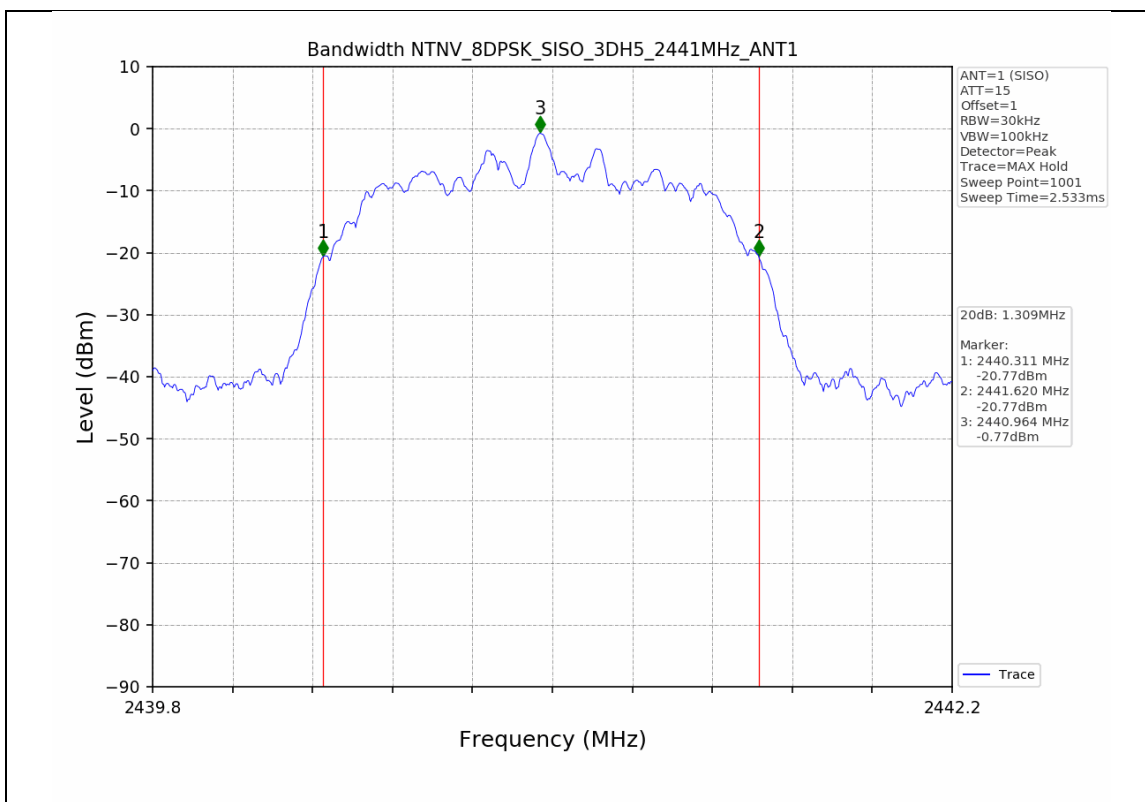
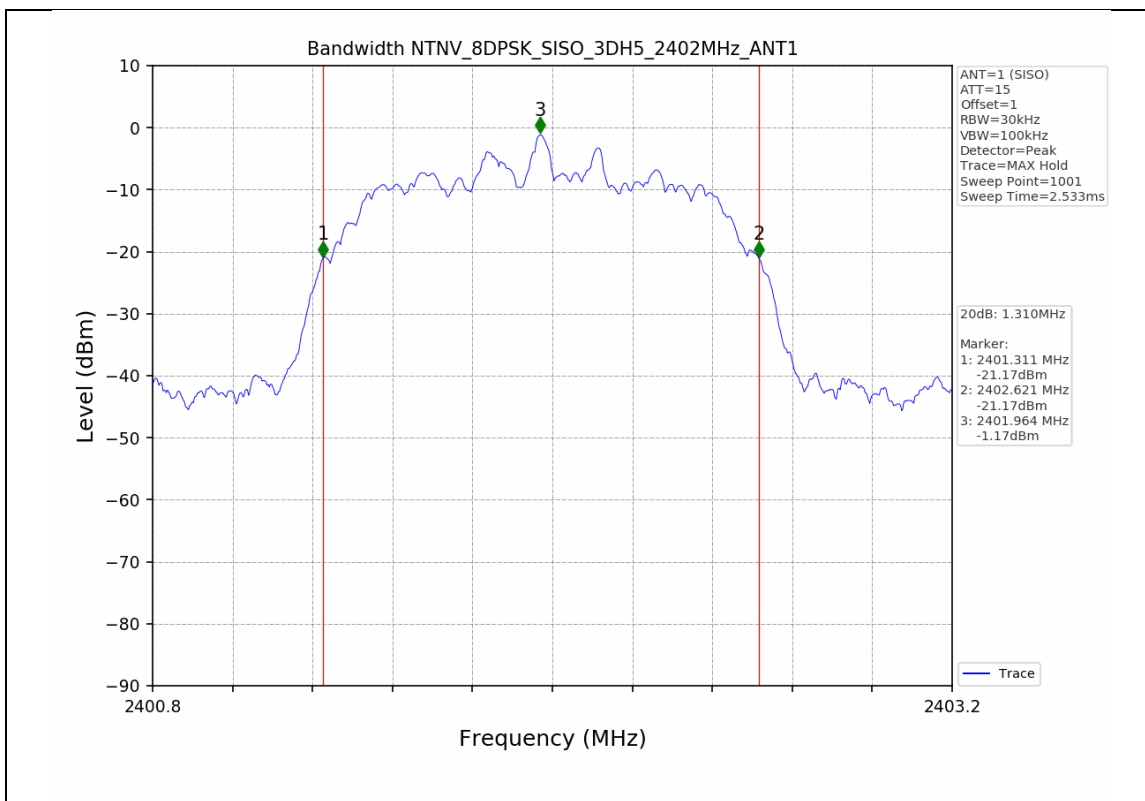
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.852	Only for Report Use
	2441	SISO	1	0.859	Only for Report Use
	2480	SISO	1	0.859	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.181	Only for Report Use
	2441	SISO	1	1.182	Only for Report Use
	2480	SISO	1	1.181	Only for Report Use
8DPSK	2402	SISO	1	1.184	Only for Report Use
	2441	SISO	1	1.181	Only for Report Use
	2480	SISO	1	1.181	Only for Report Use

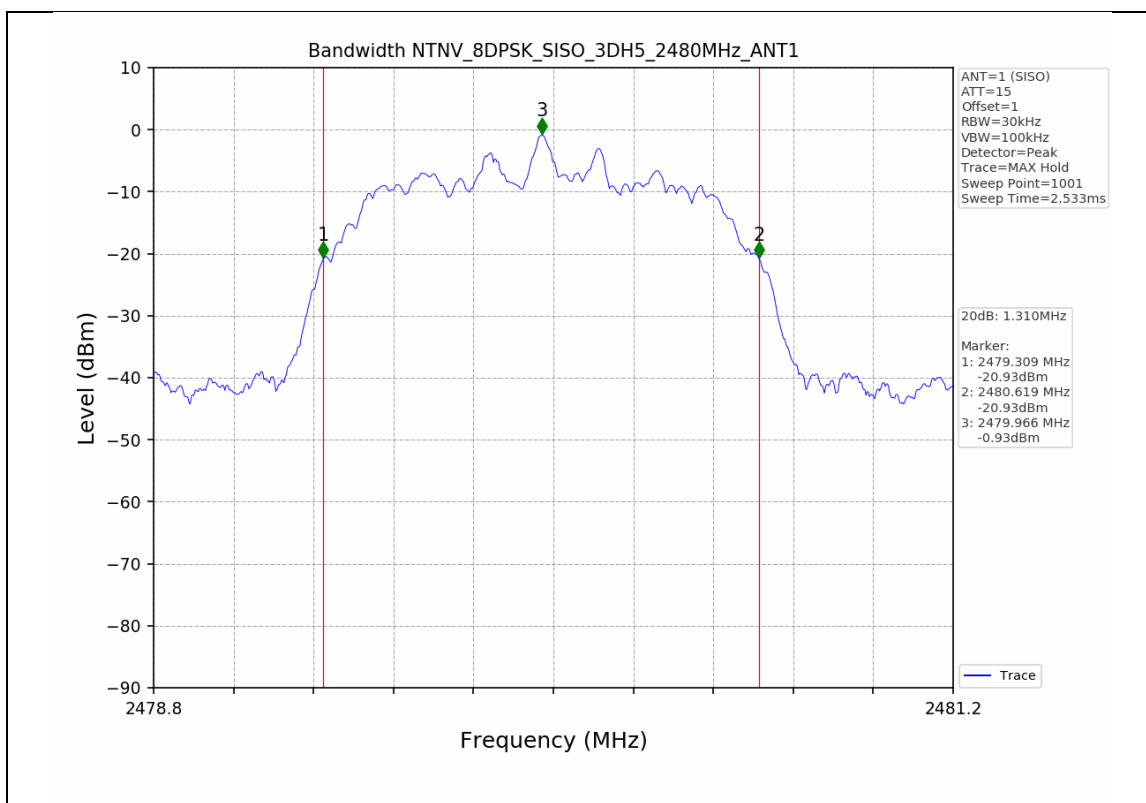
1.2 Test Graph - 20dB Bandwidth



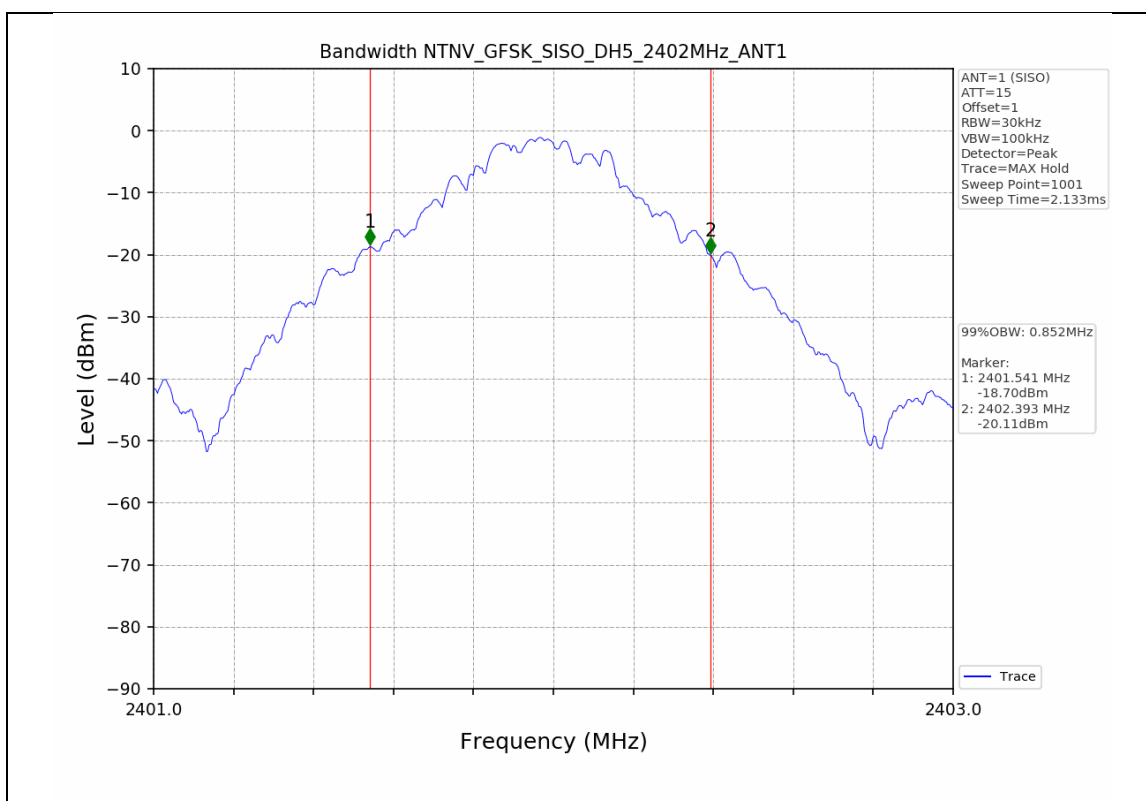


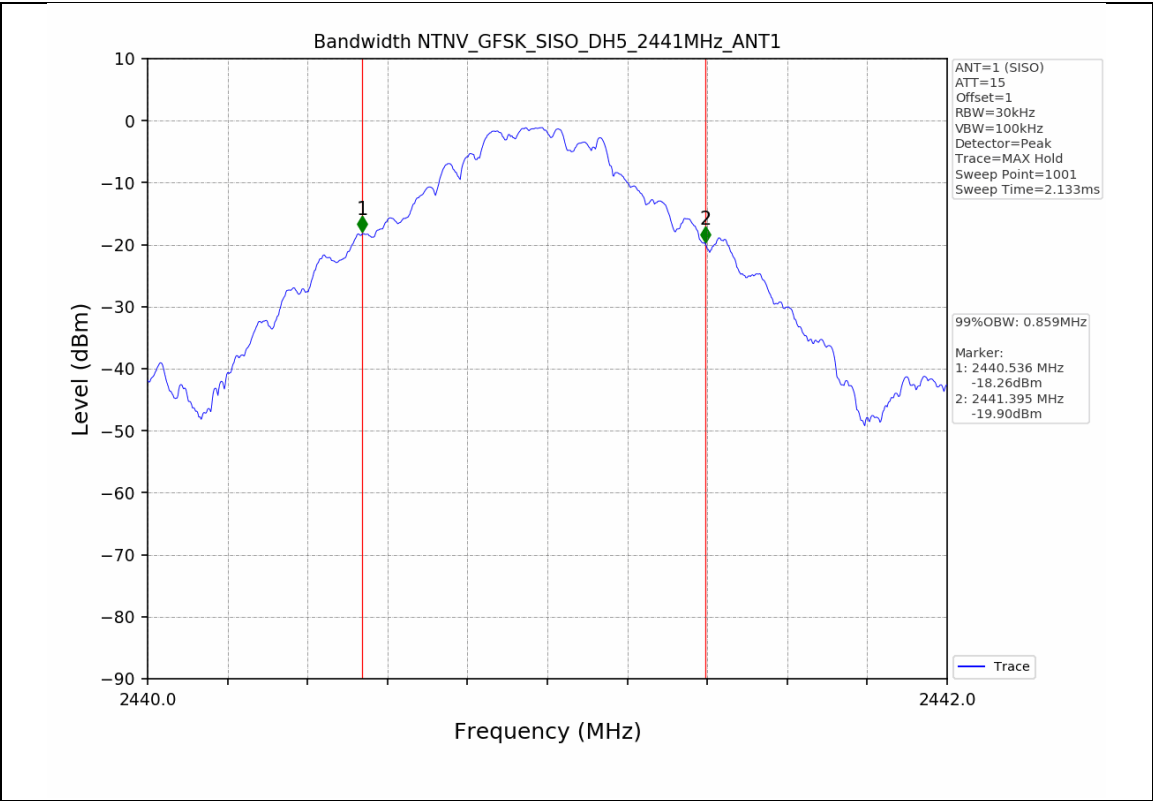


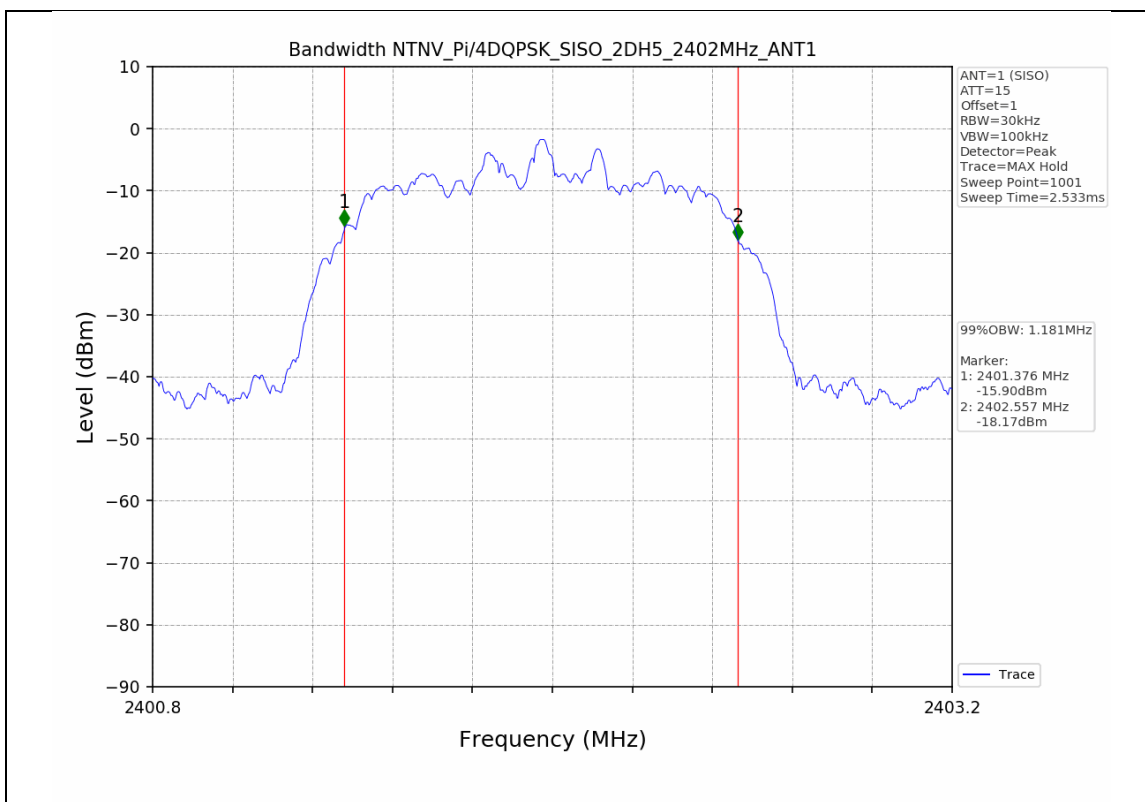
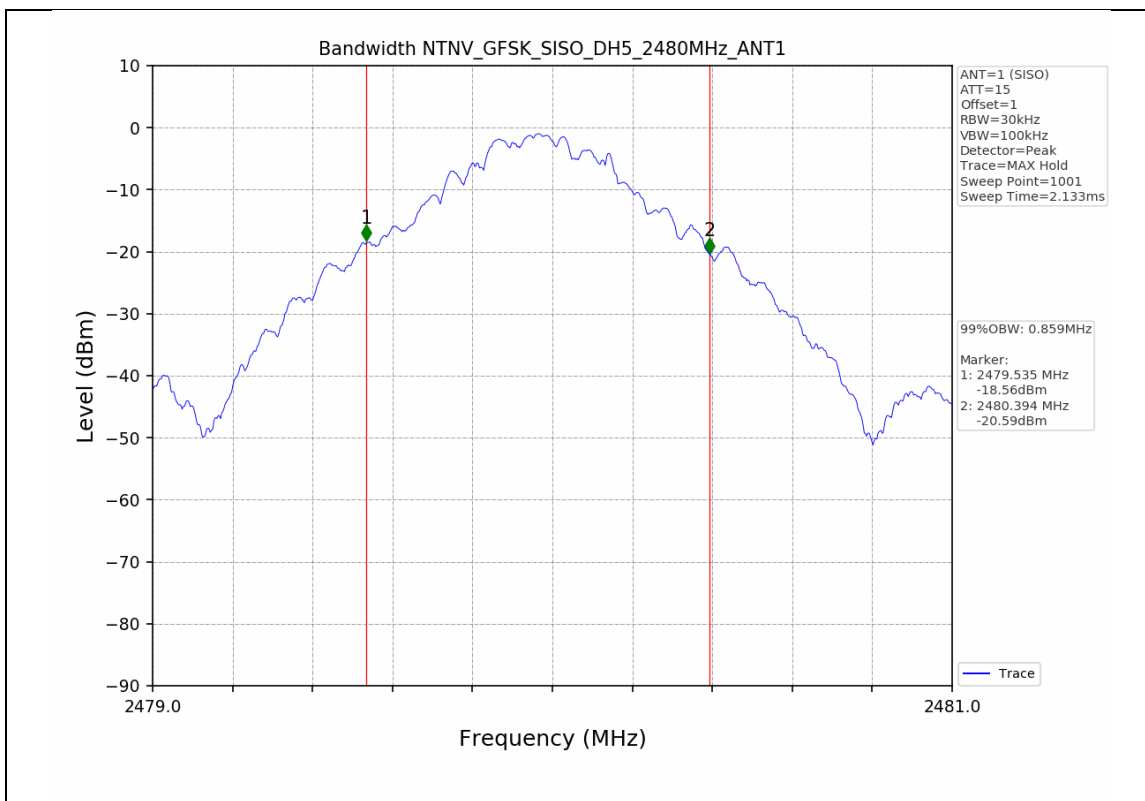


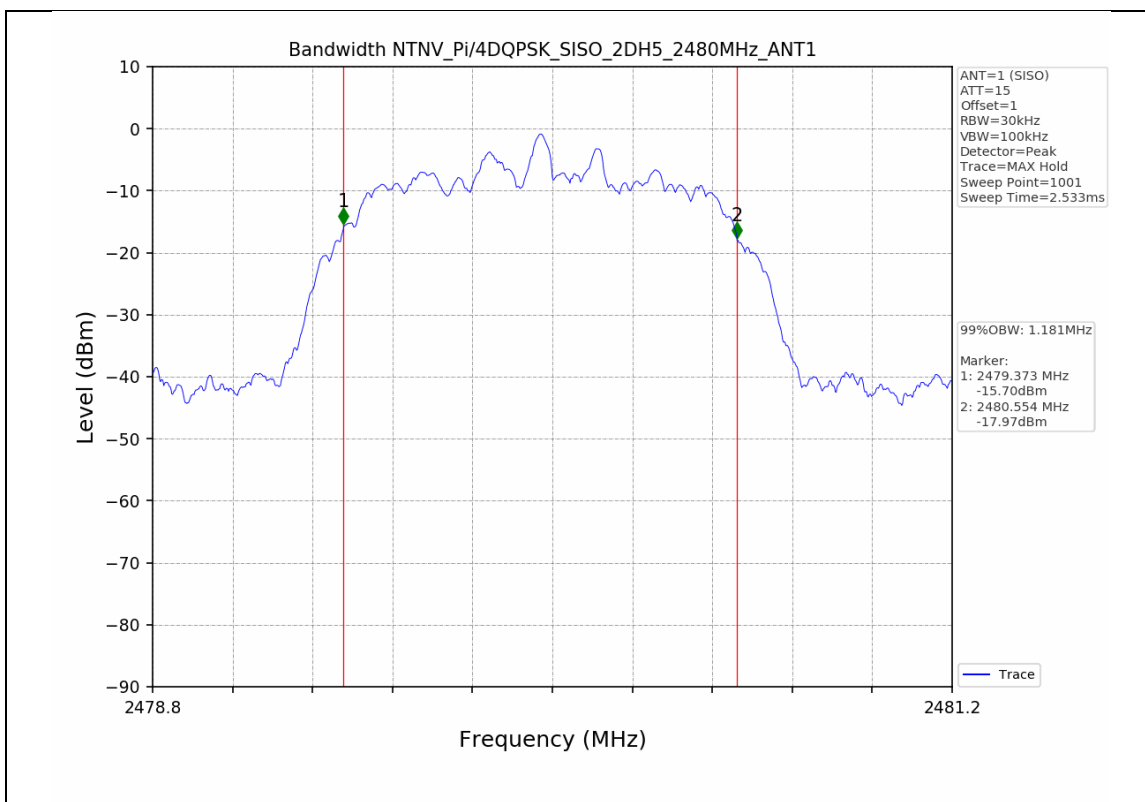
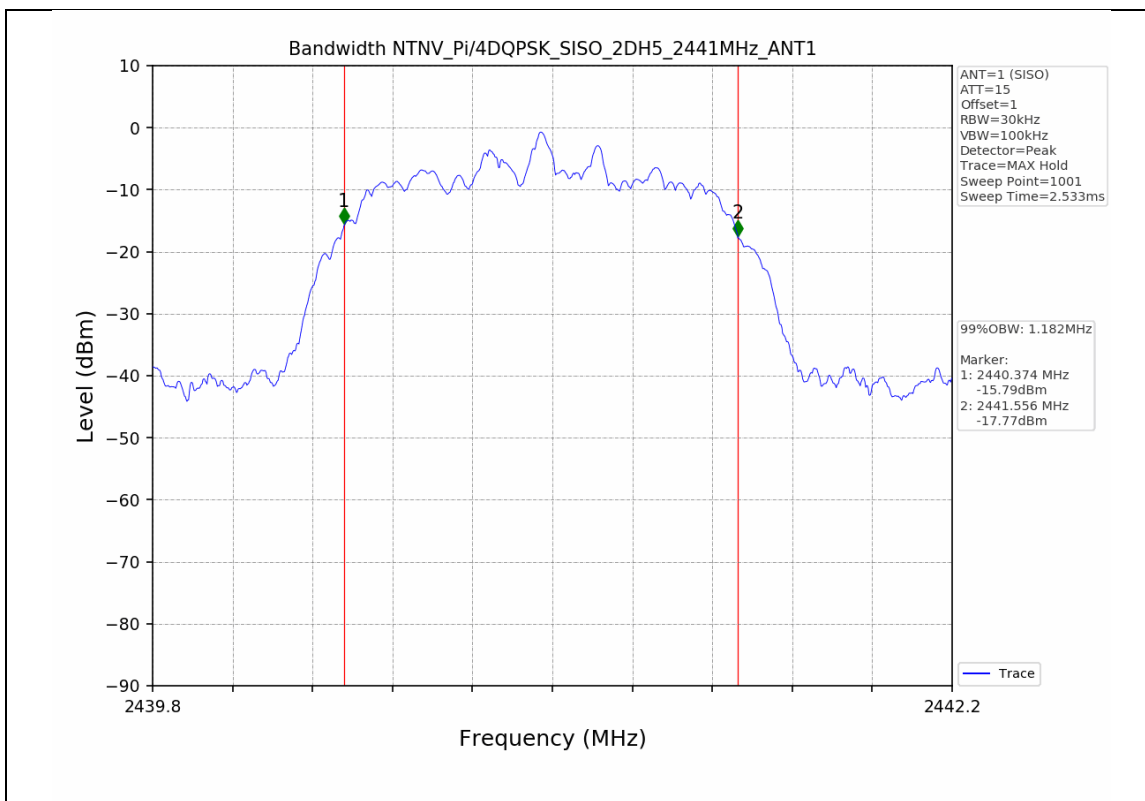


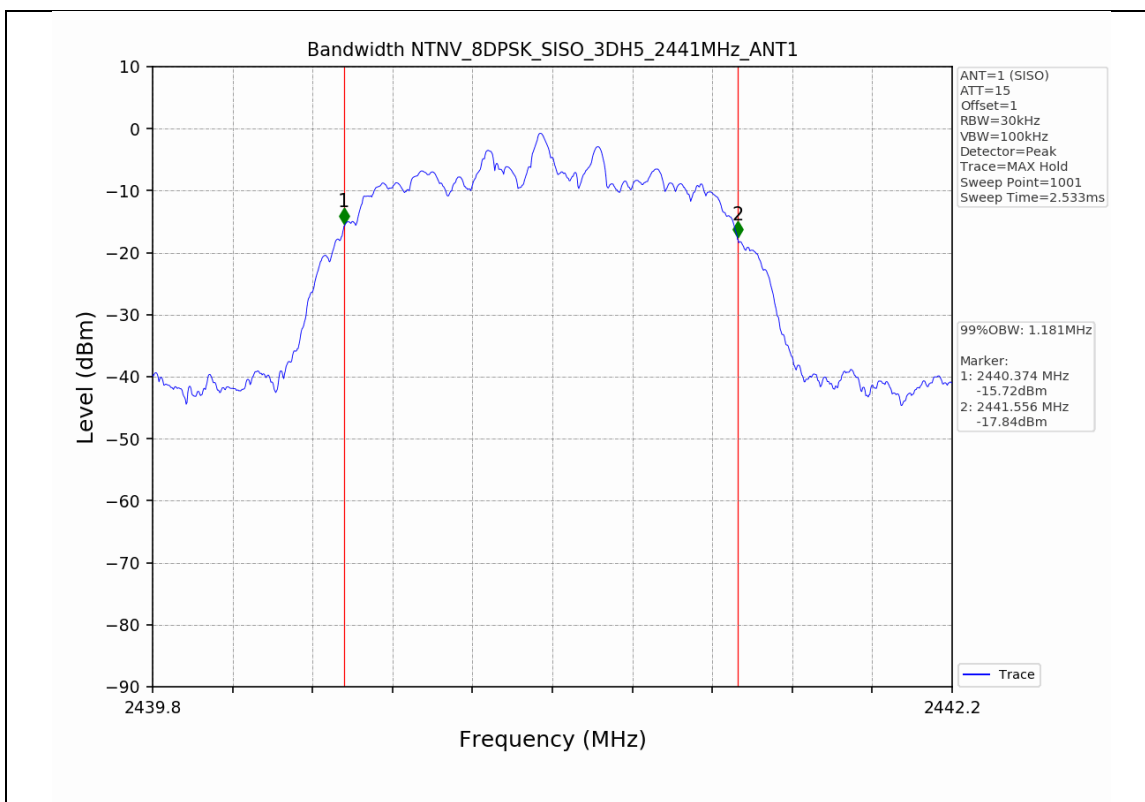
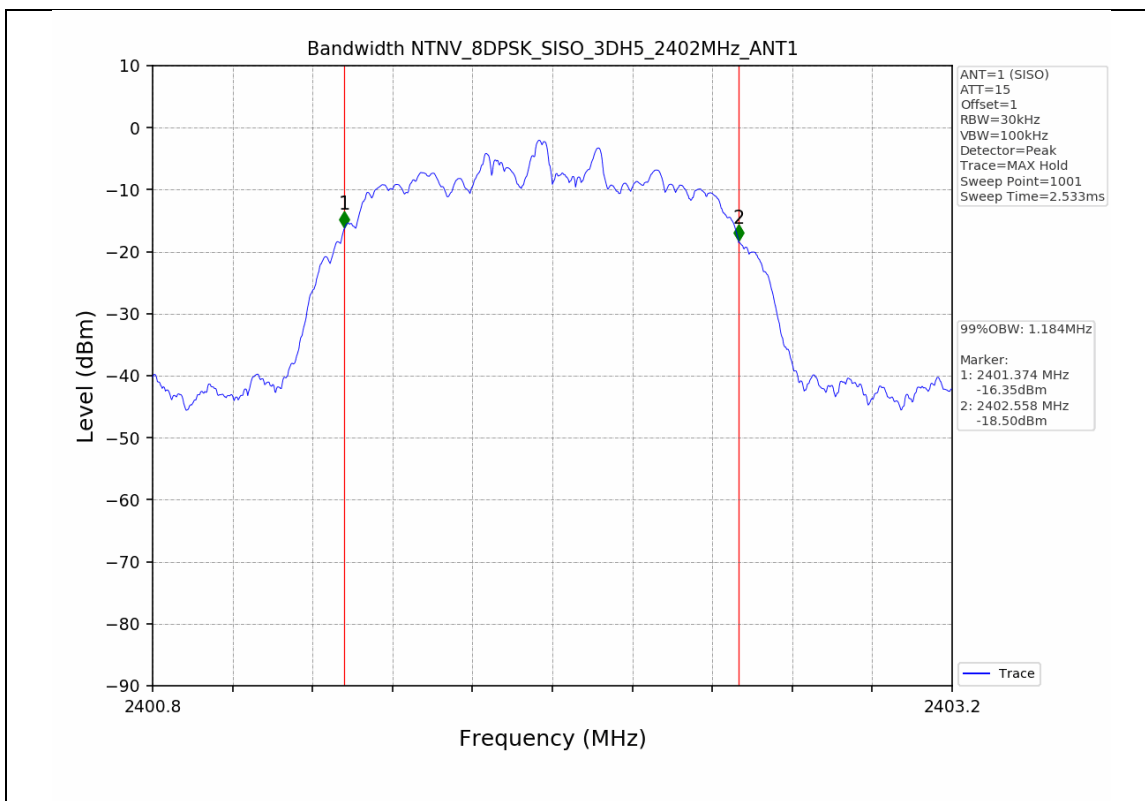
1.3 Test Graph - 99% Occupied Bandwidth

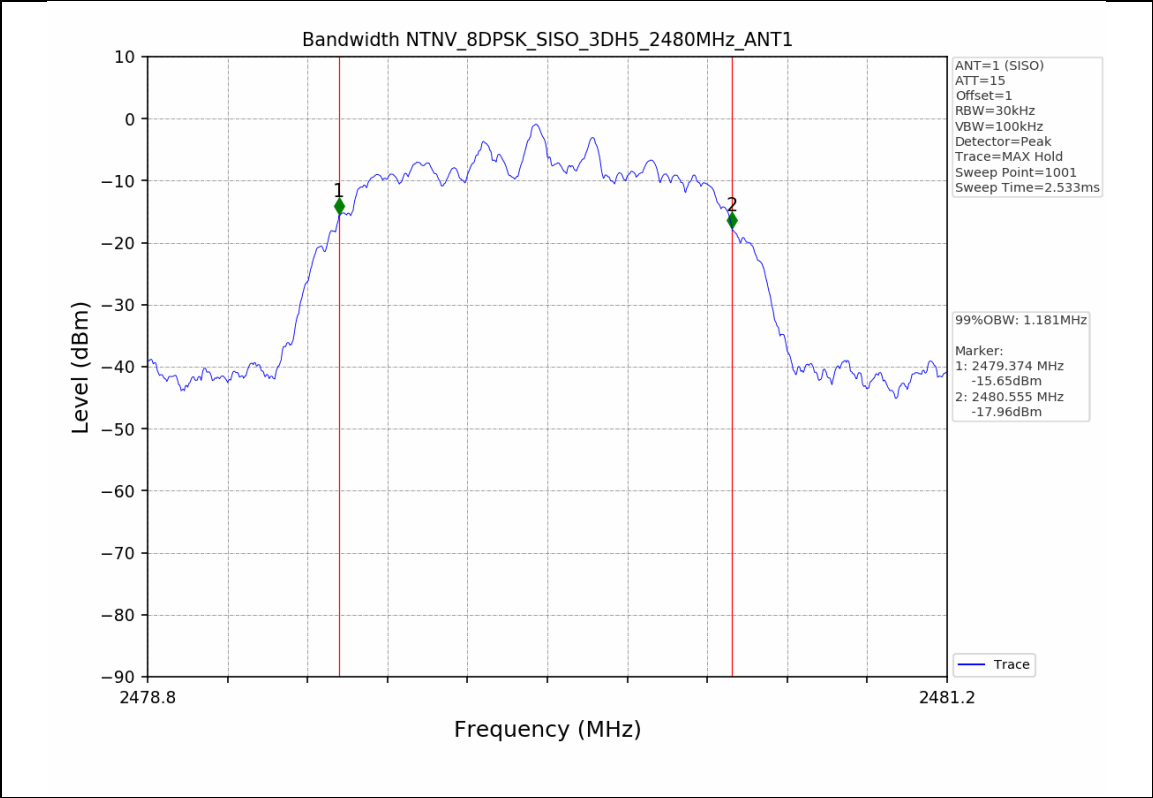










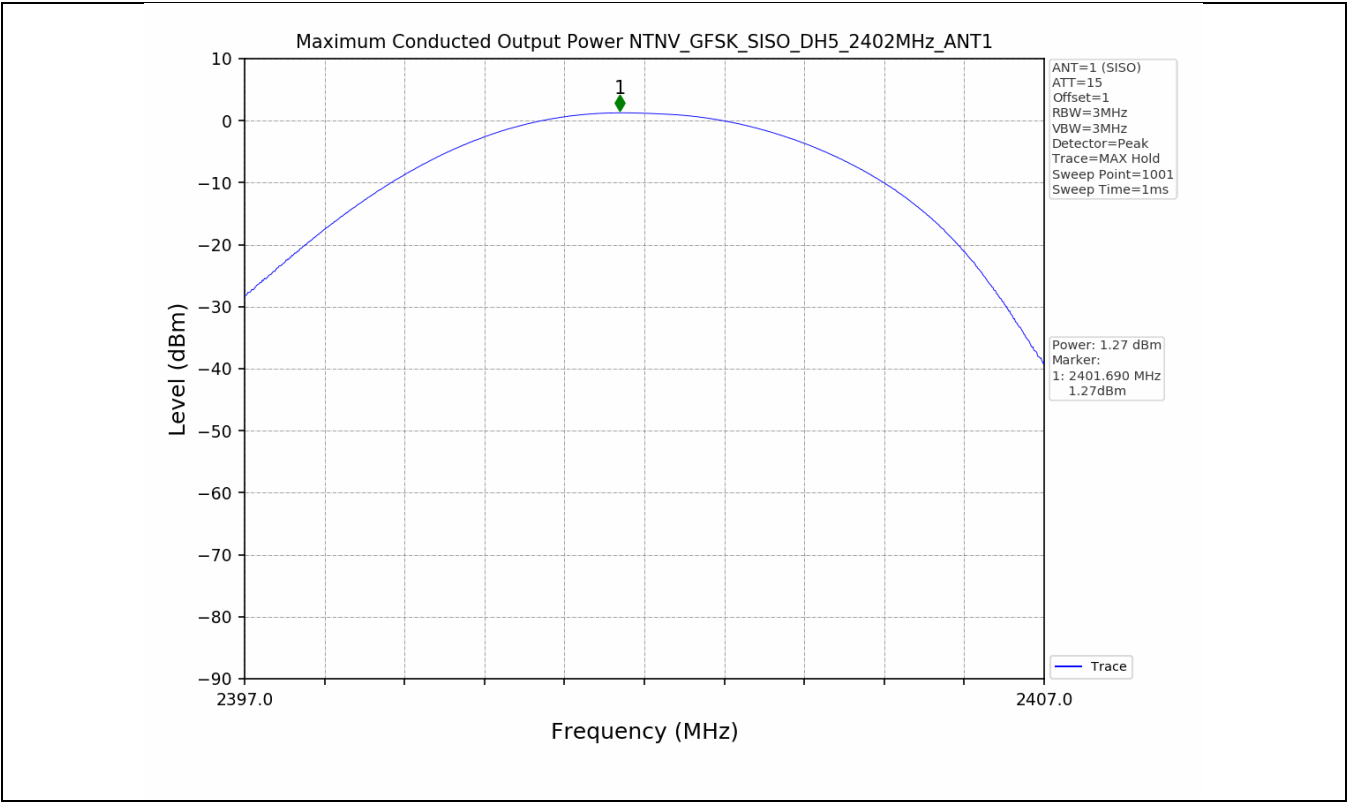


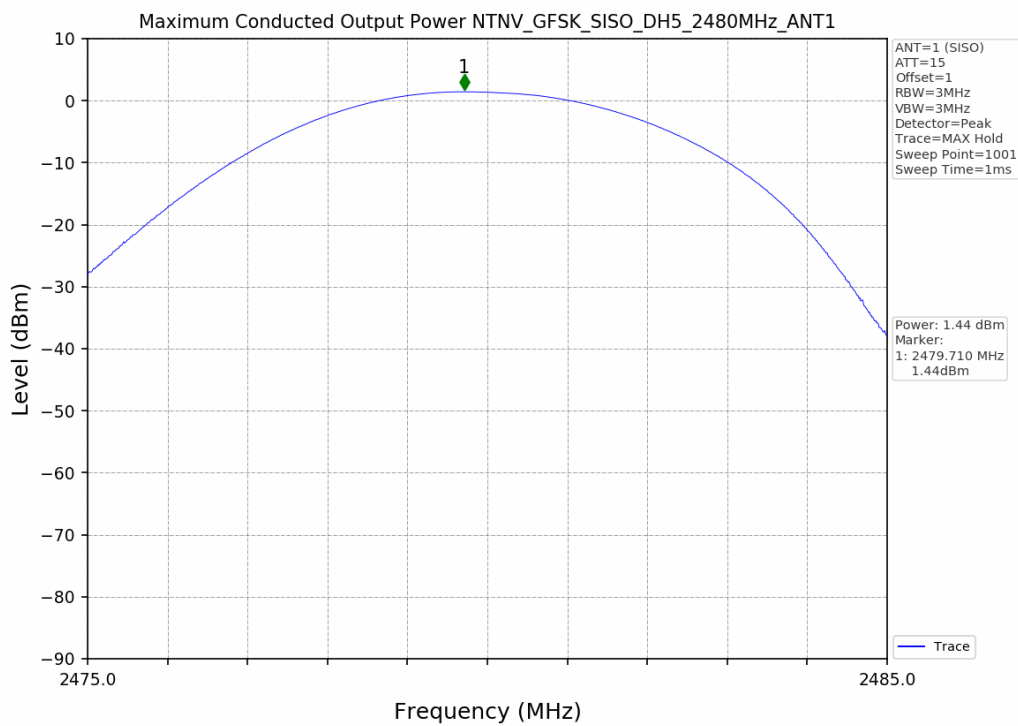
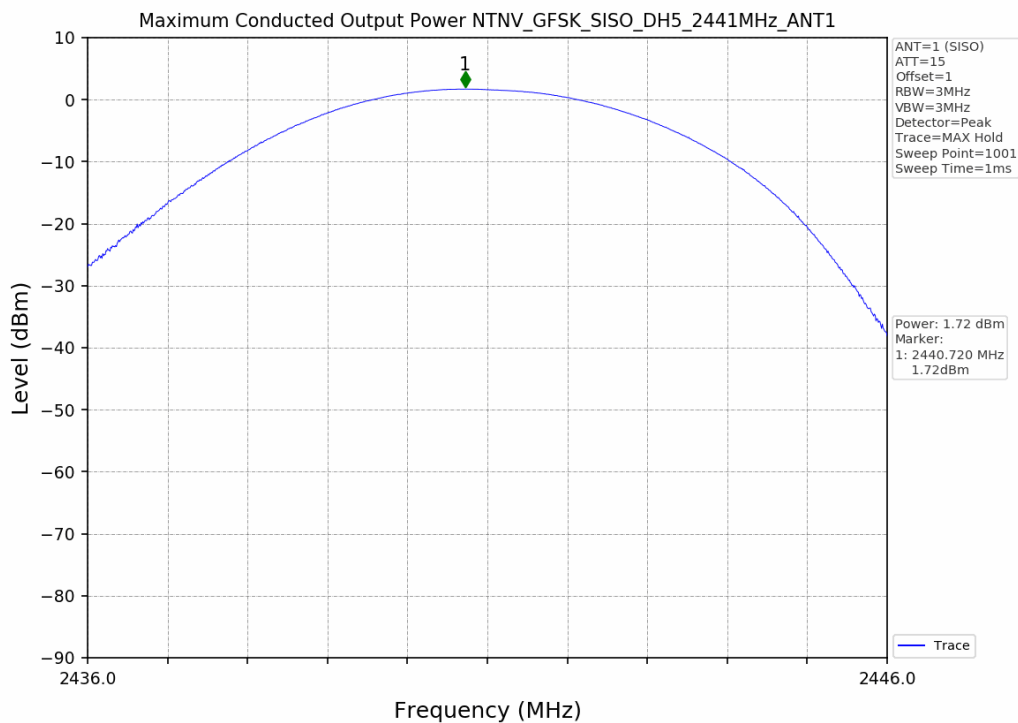
2. Maximum Conducted Output Power

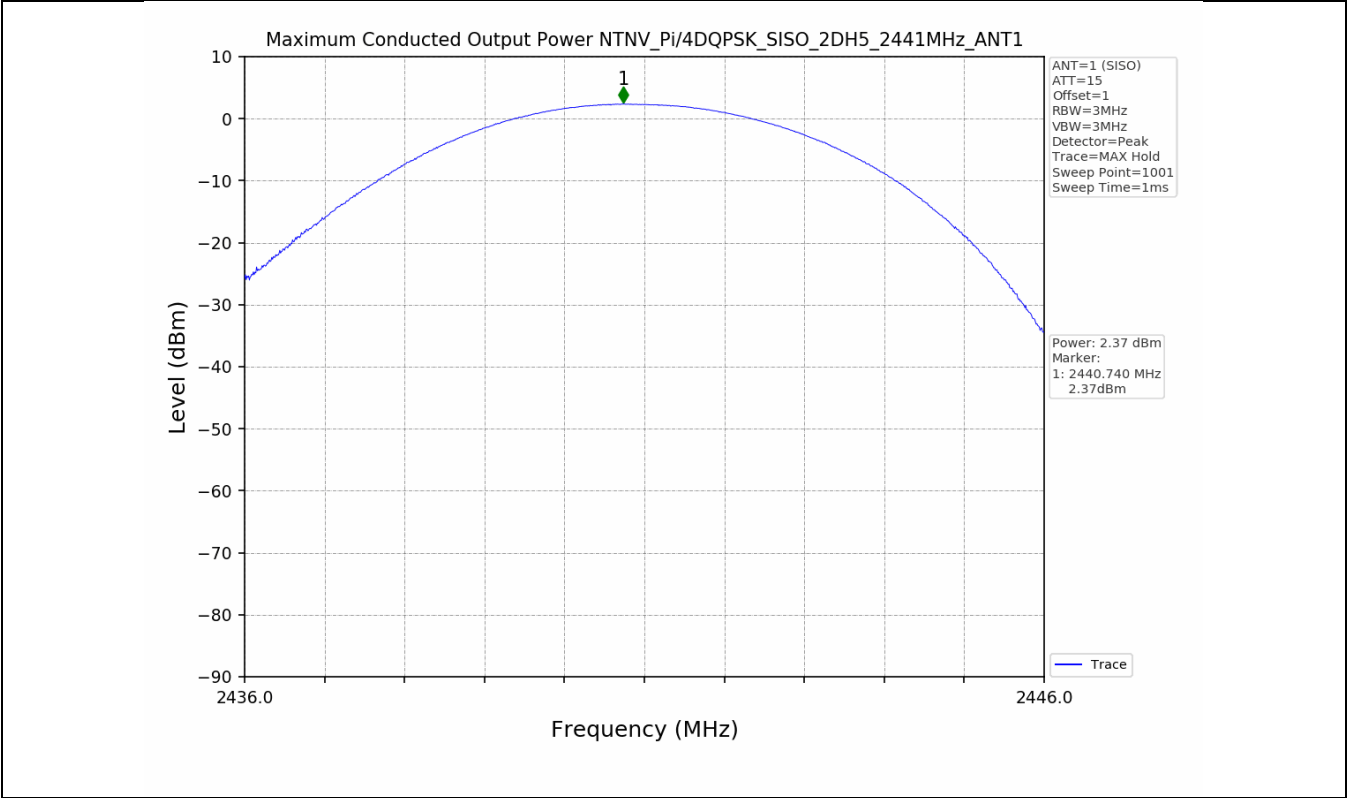
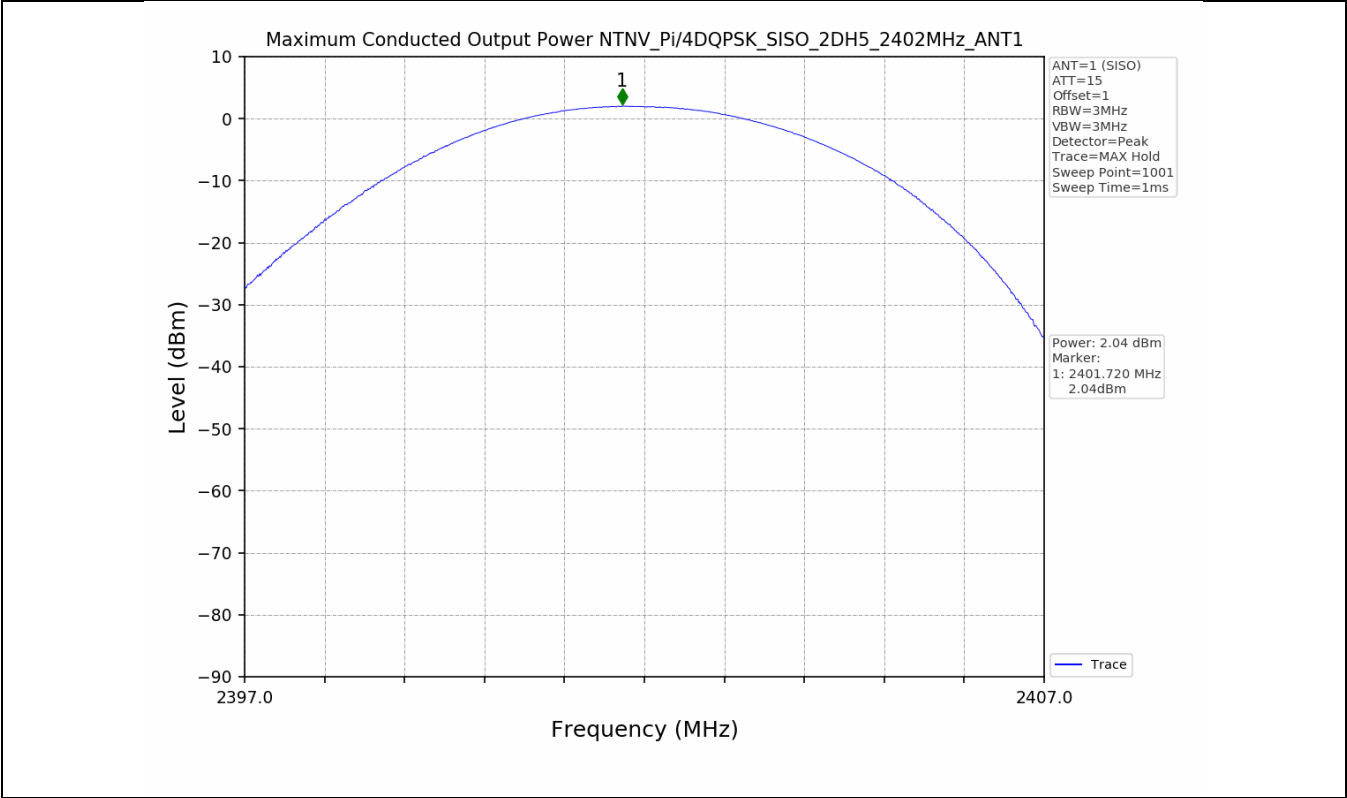
2.1 Test Result

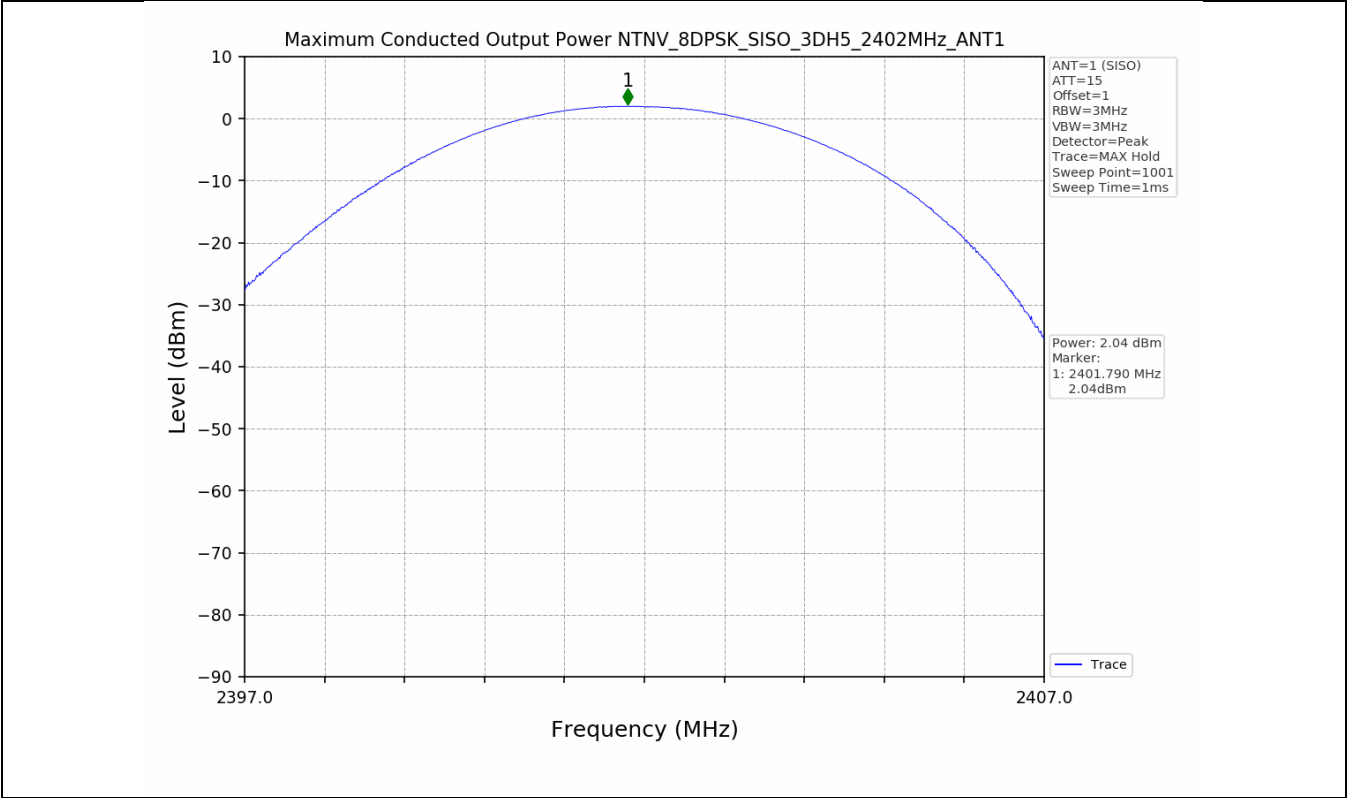
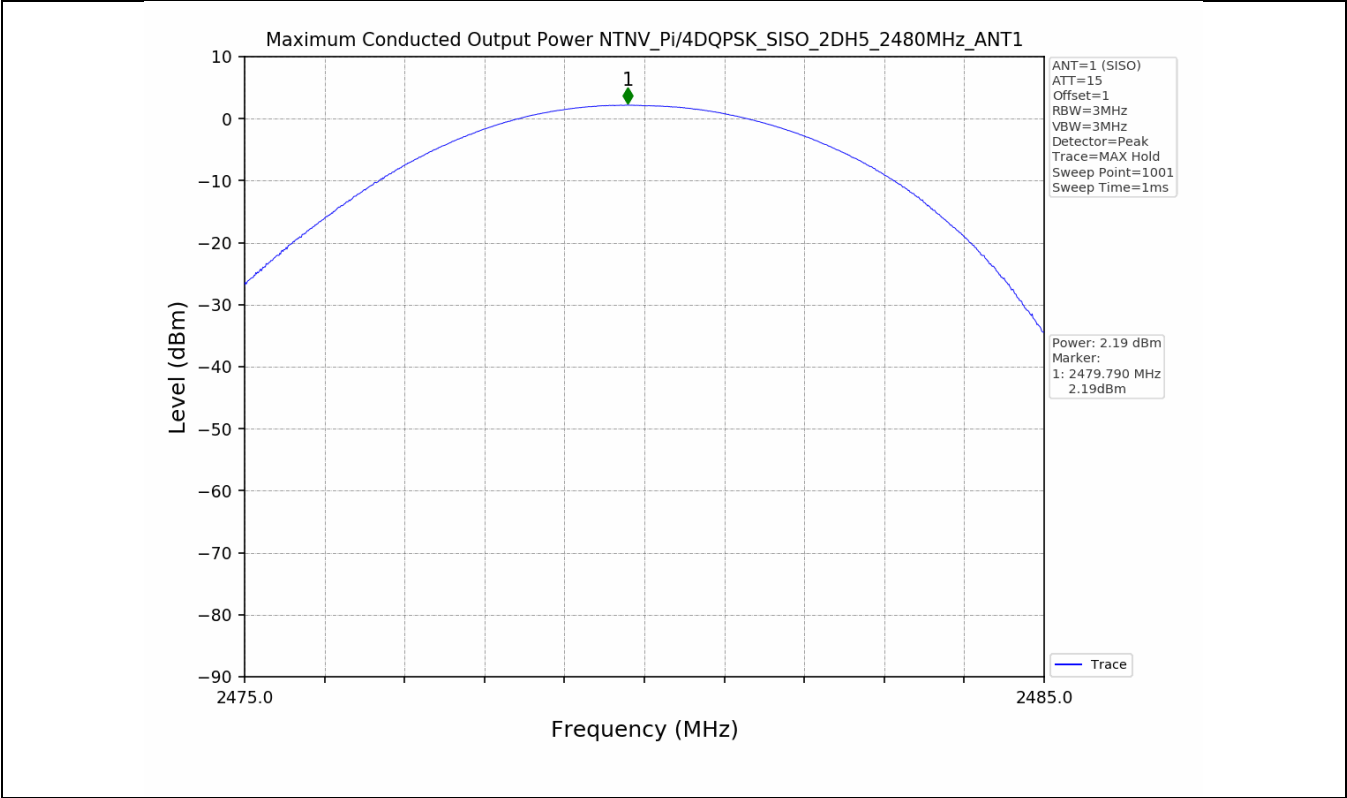
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	1.27	30	PASS
	2441	SISO	1.72	30	PASS
	2480	SISO	1.44	30	PASS
Pi/4DQPSK	2402	SISO	2.04	20.97	PASS
	2441	SISO	2.37	20.97	PASS
	2480	SISO	2.19	20.97	PASS
8DPSK	2402	SISO	2.04	20.97	PASS
	2441	SISO	2.35	20.97	PASS
	2480	SISO	2.18	20.97	PASS

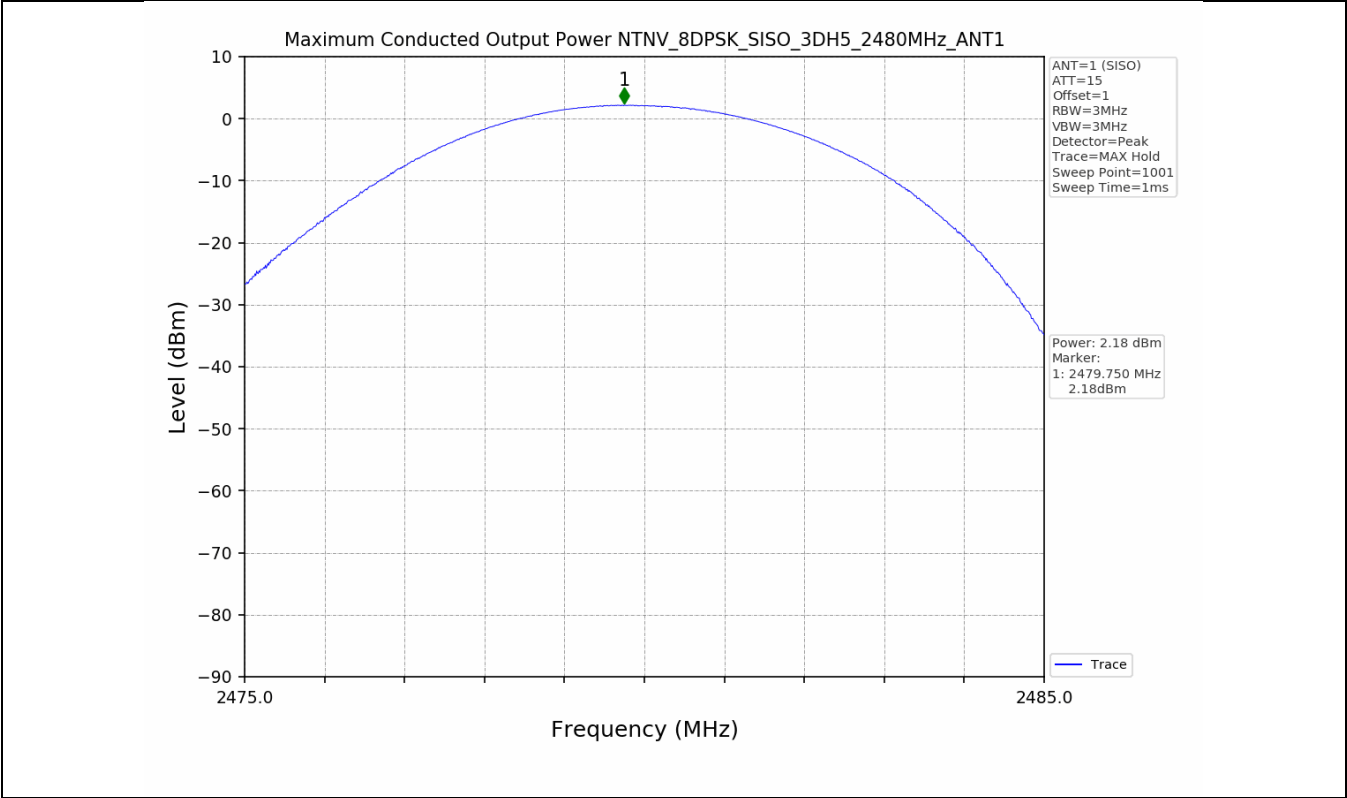
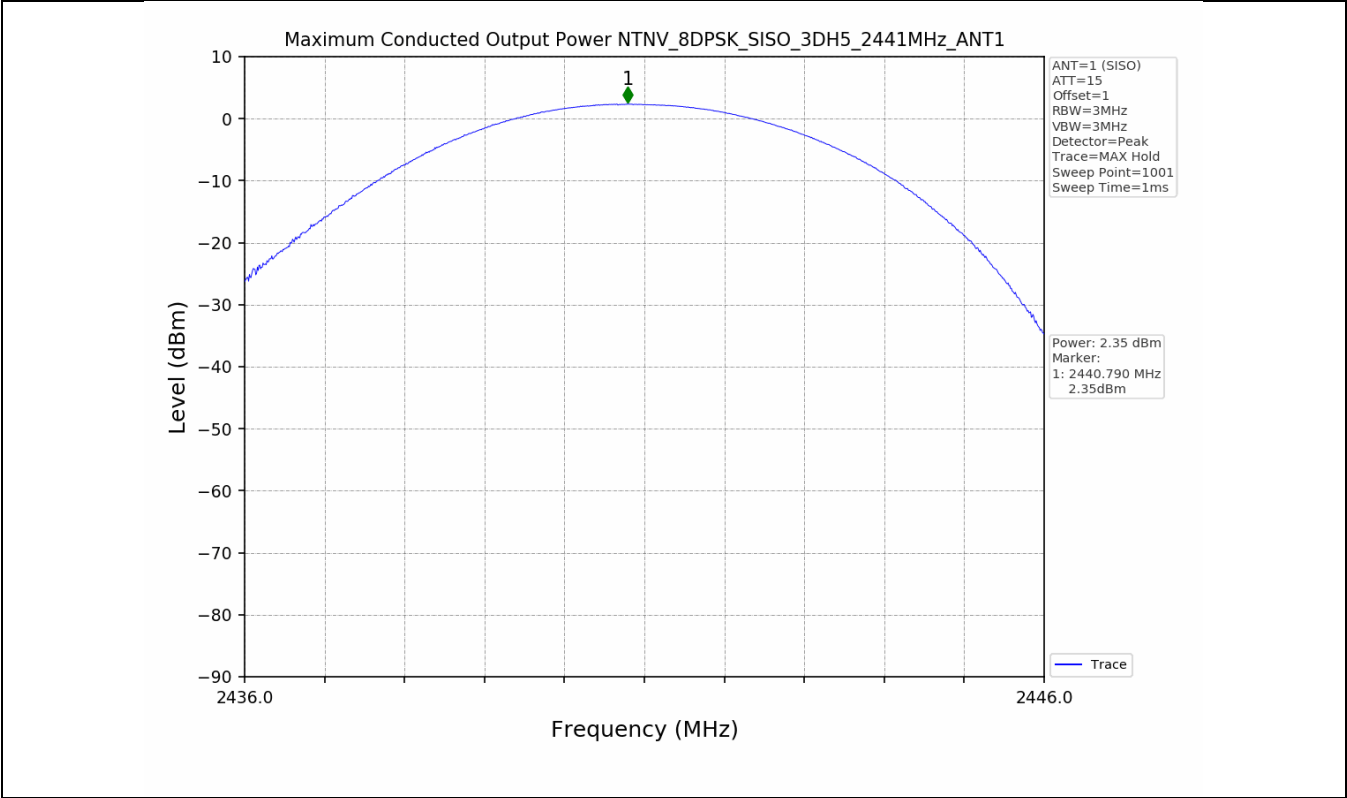
2.2 Test Graph









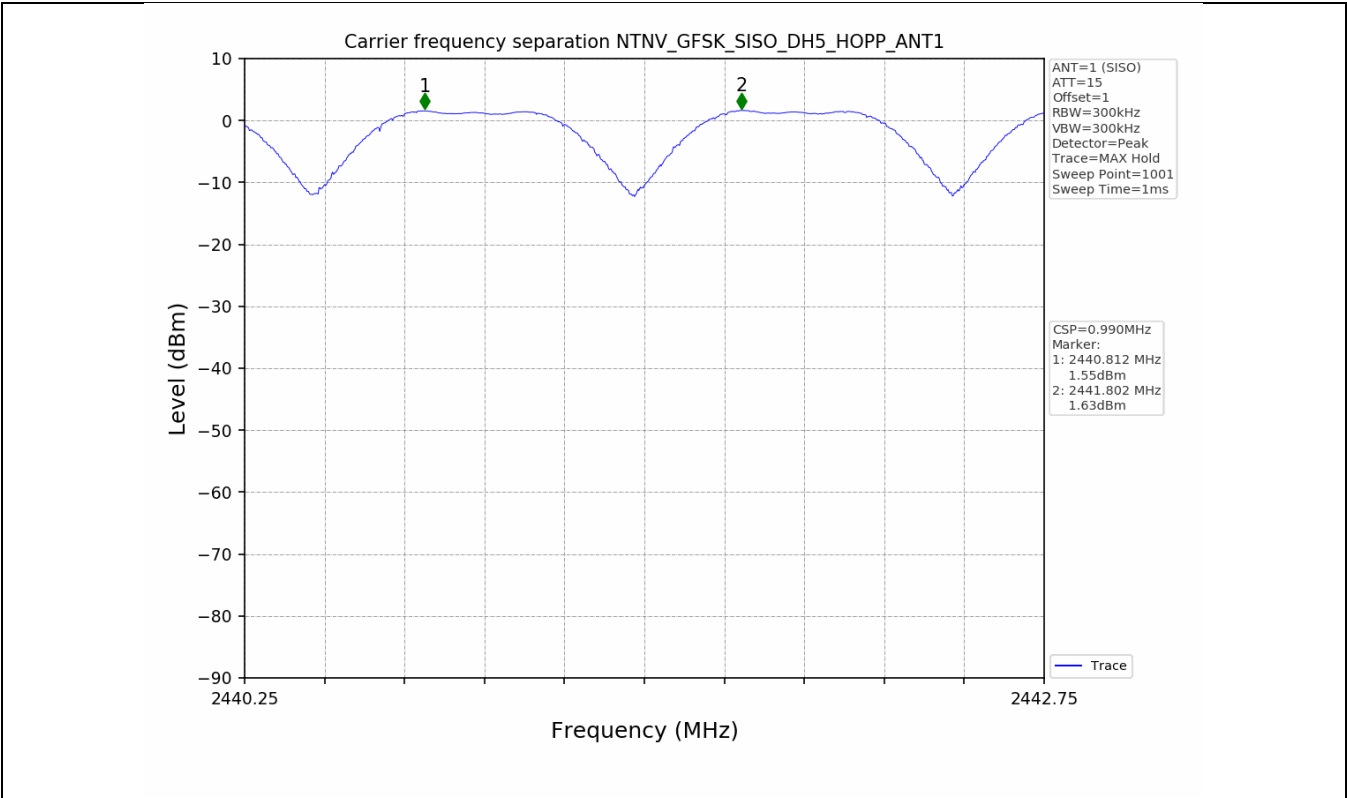


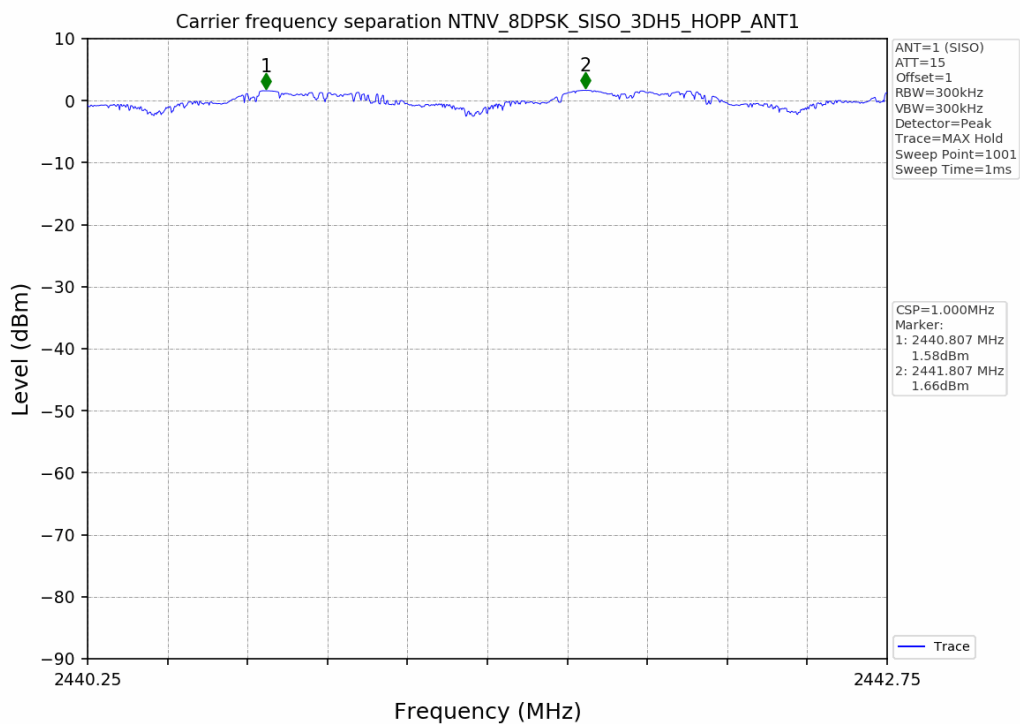
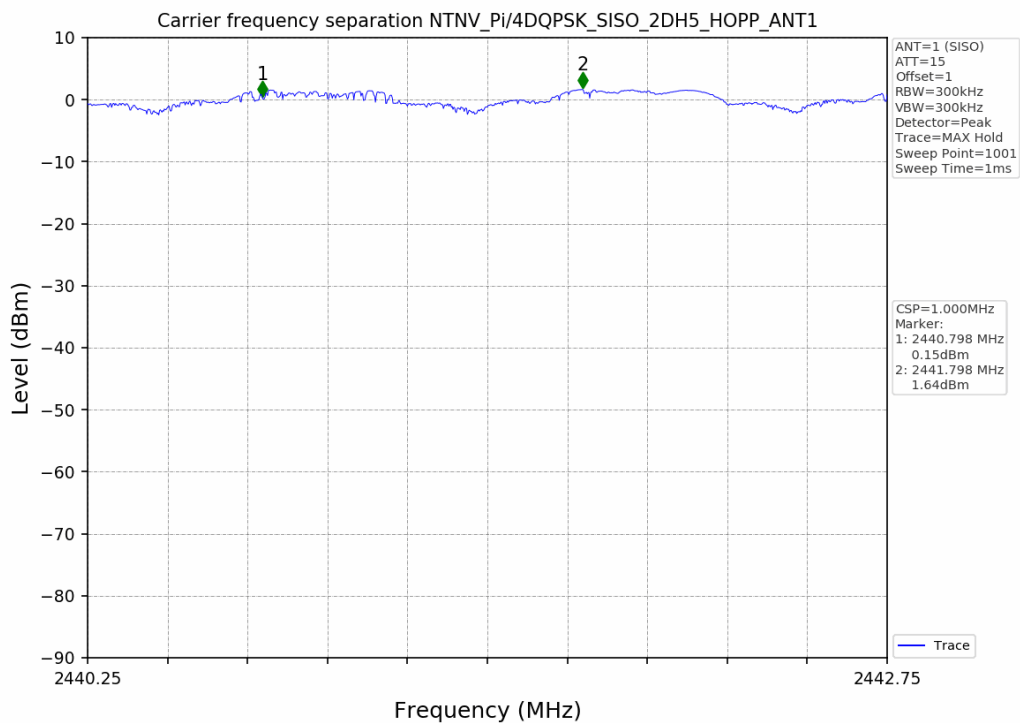
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.990	0.952	≥ 0.952	PASS
Pi/4DQPSK	SISO	1	1.000	1.320	≥ 0.880	PASS
8DPSK	SISO	1	1.000	1.310	≥ 0.873	PASS

3.2 Test Graph



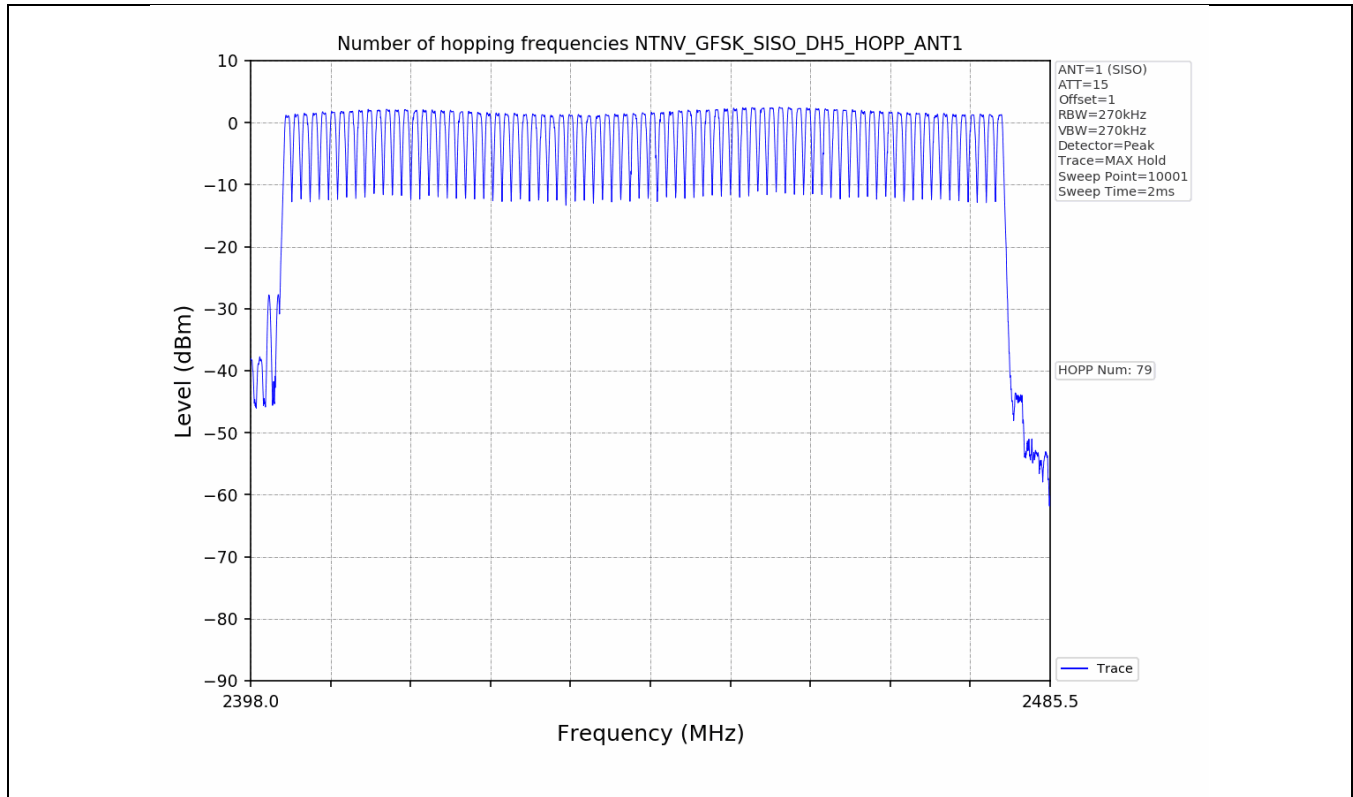


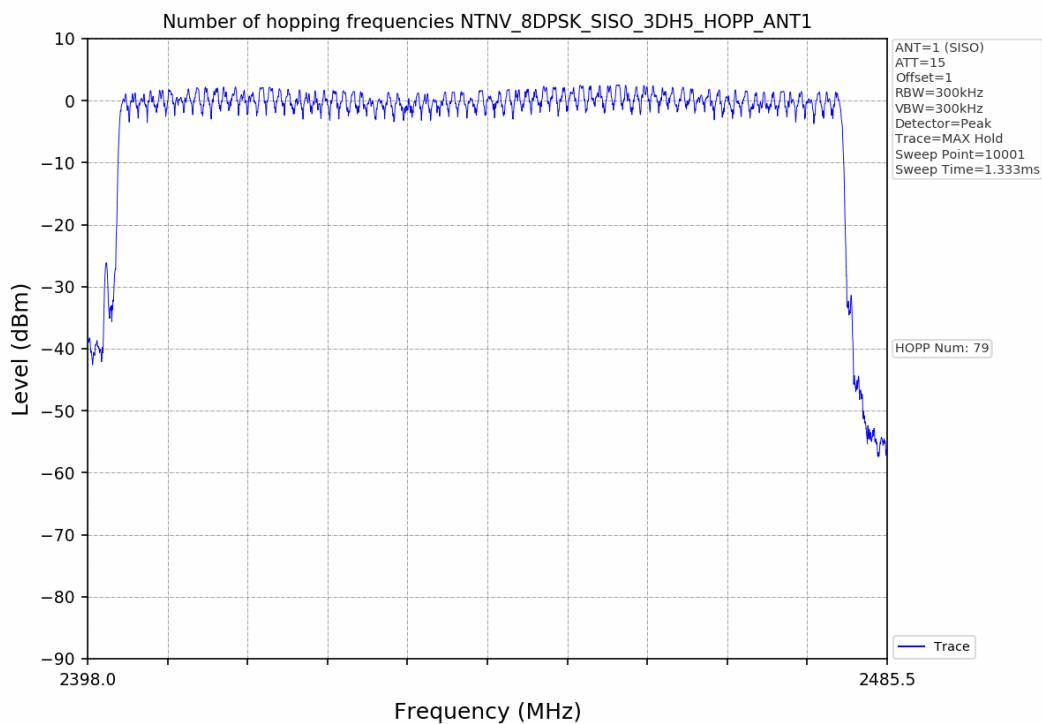
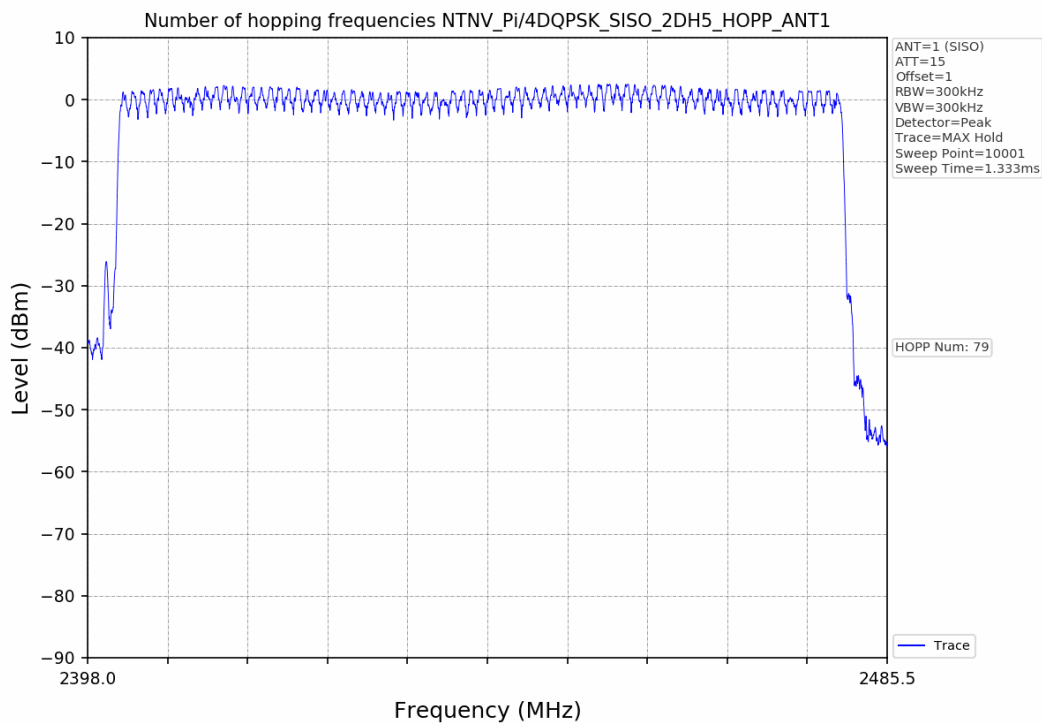
4. Number of hopping frequencies

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



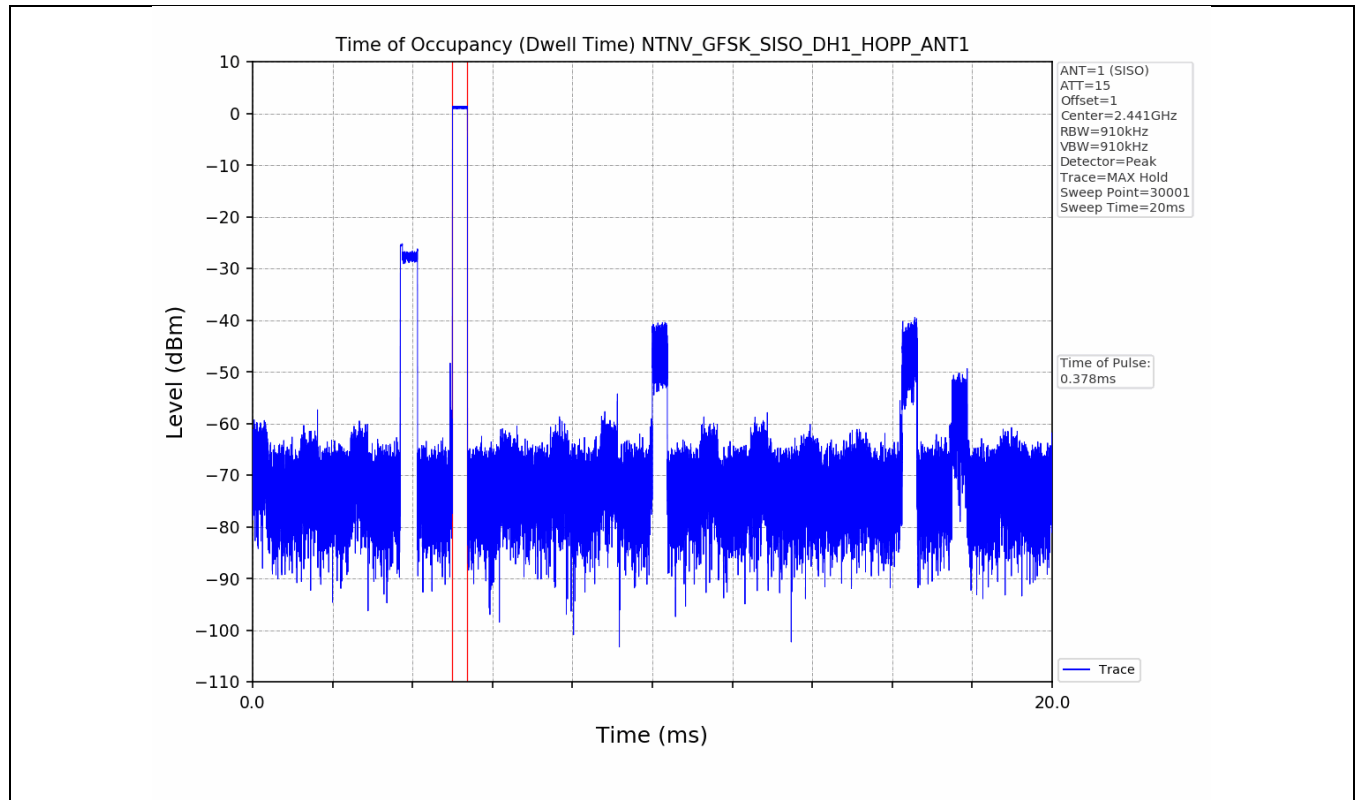


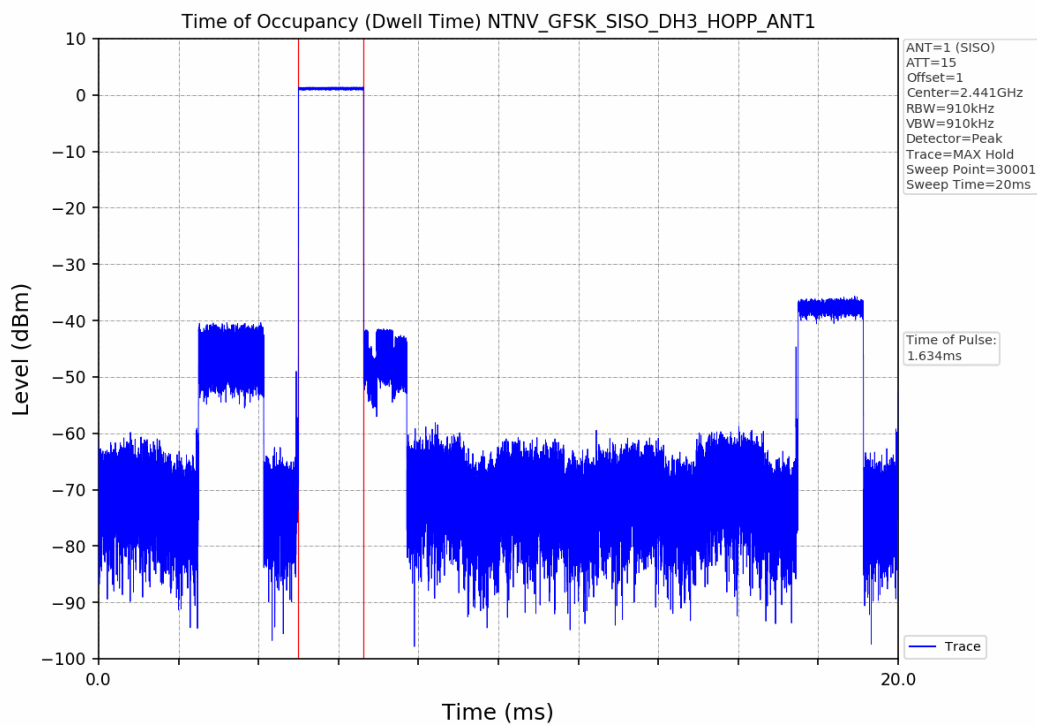
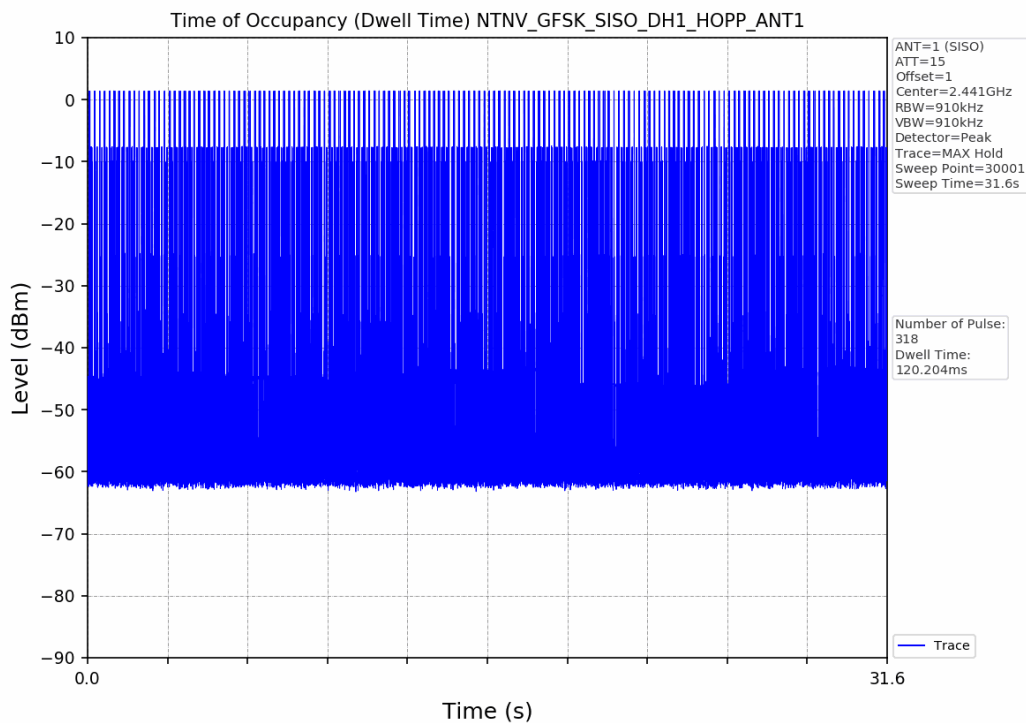
5. Time of Occupancy (Dwell Time)

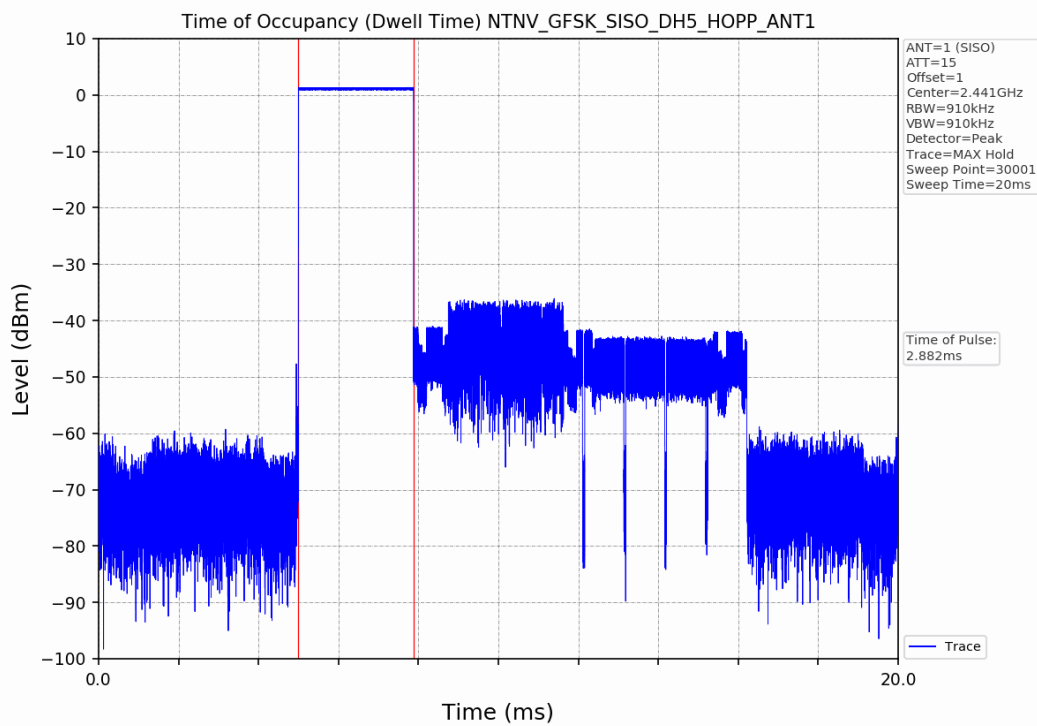
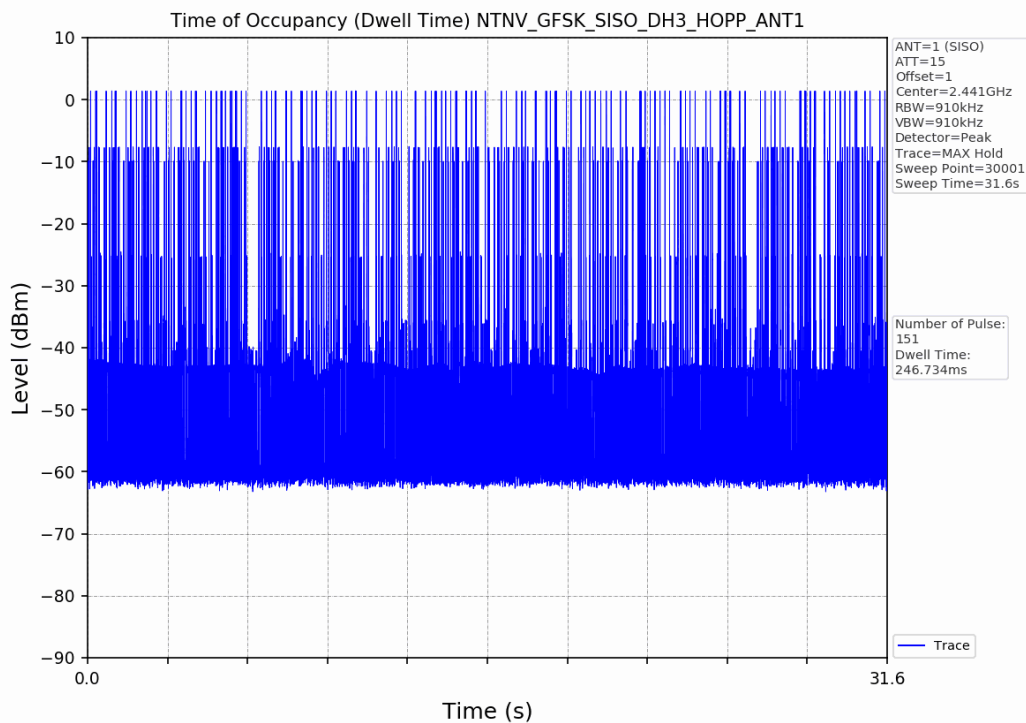
5.1 Test Result

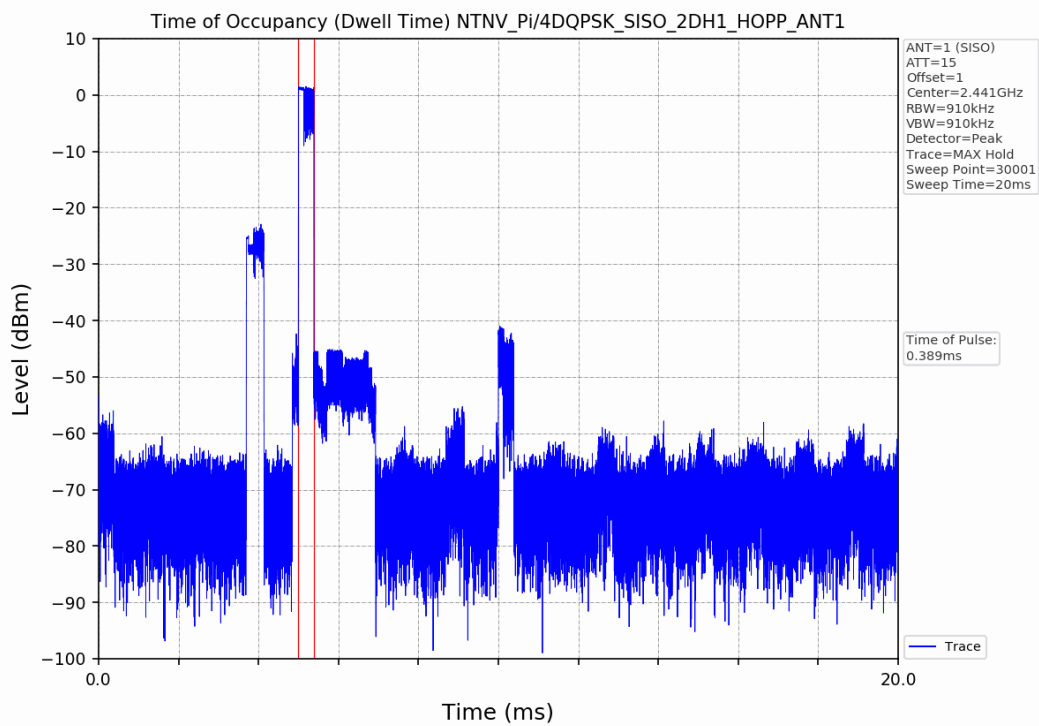
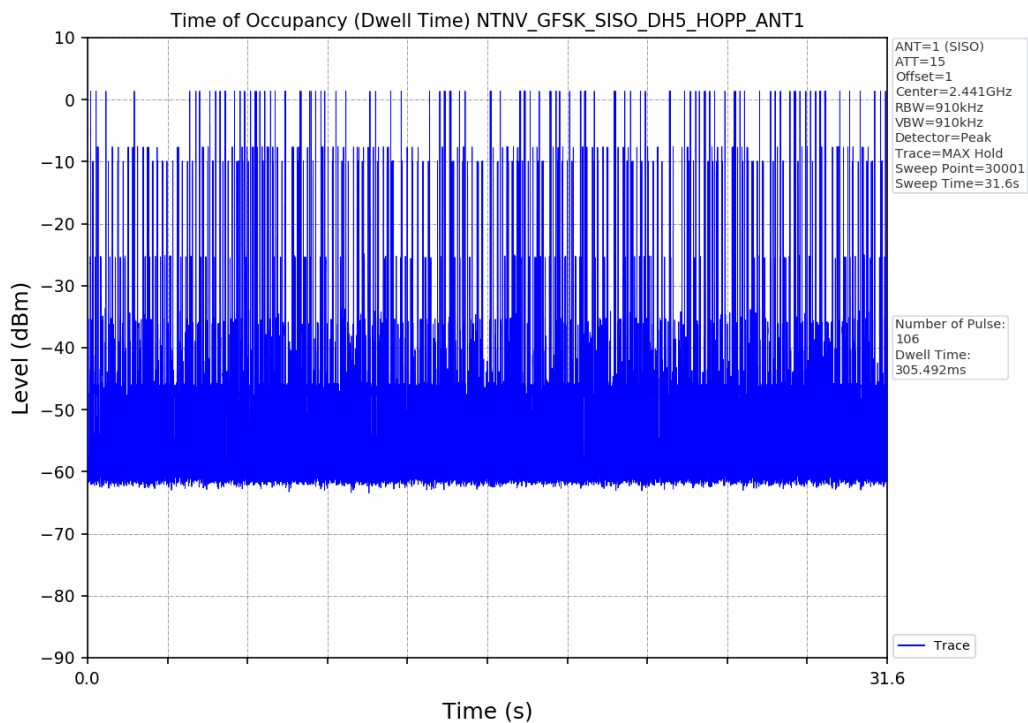
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.378	31.6	318	120.204	≤400	PASS
	DH3	SISO	1	1.634	31.6	151	246.734	≤400	PASS
	DH5	SISO	1	2.882	31.6	106	305.492	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.389	31.6	320	124.480	≤400	PASS
	2DH3	SISO	1	1.641	31.6	161	264.201	≤400	PASS
	2DH5	SISO	1	2.888	31.6	116	335.008	≤400	PASS
8DPSK	3DH1	SISO	1	0.390	31.6	320	124.800	≤400	PASS
	3DH3	SISO	1	1.641	31.6	151	247.791	≤400	PASS
	3DH5	SISO	1	2.887	31.6	101	291.587	≤400	PASS

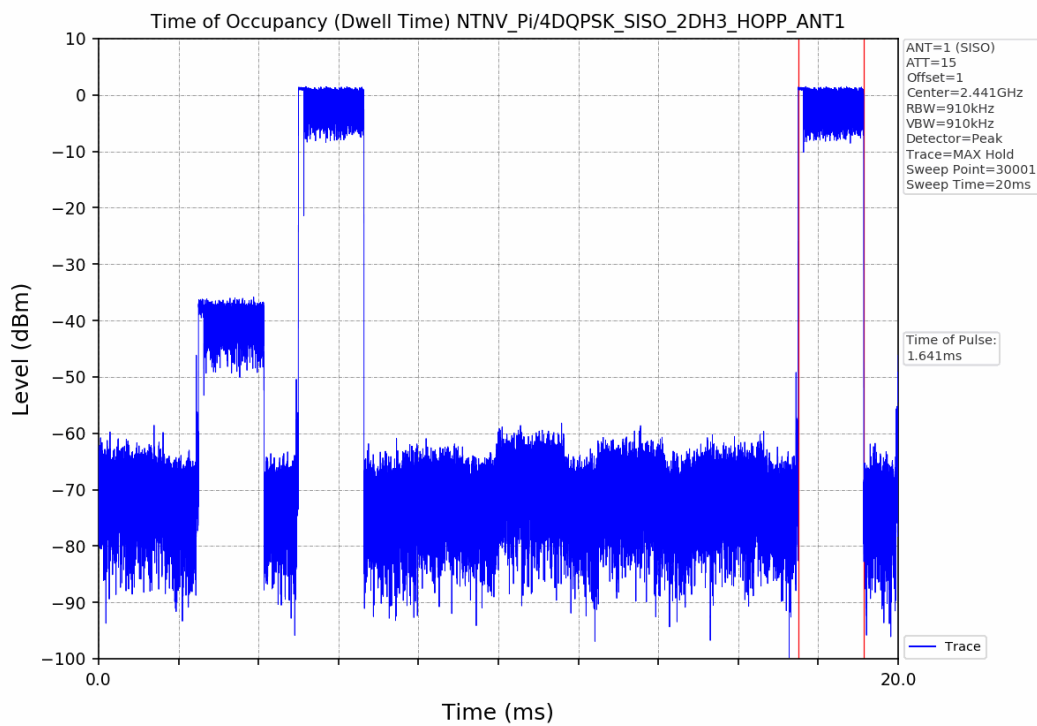
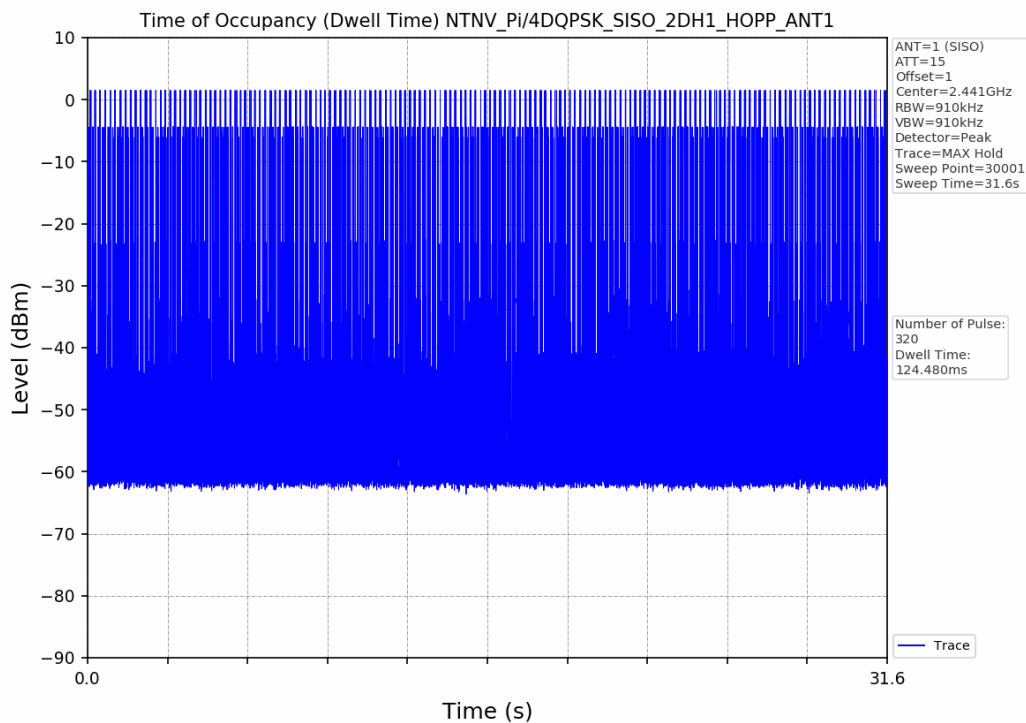
5.2 Test Graph

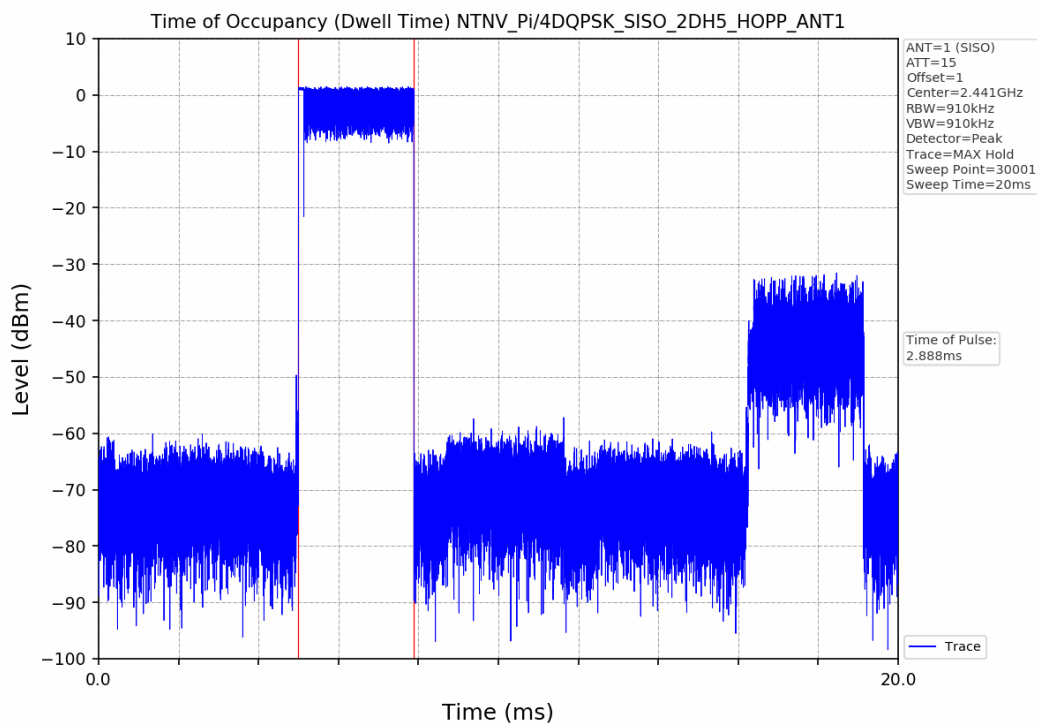
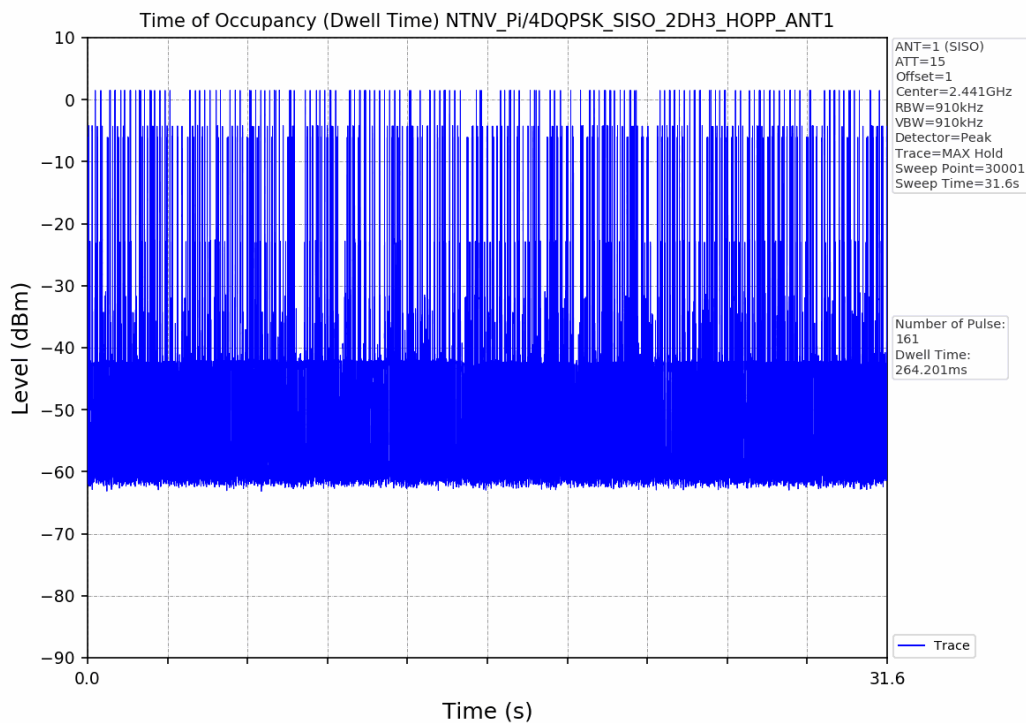


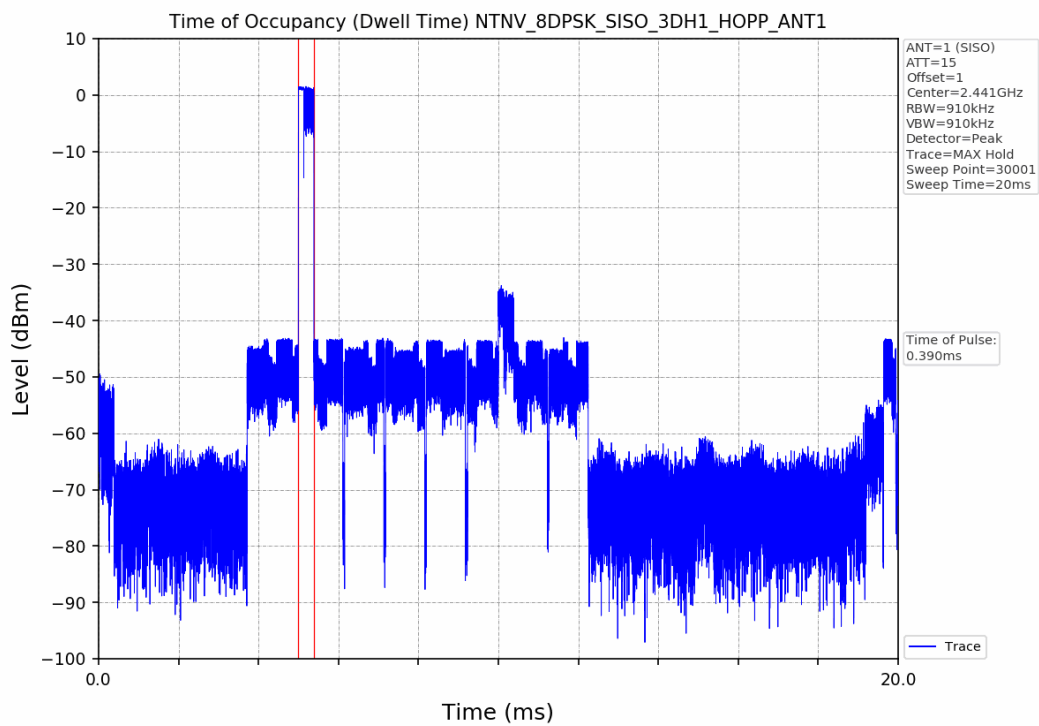
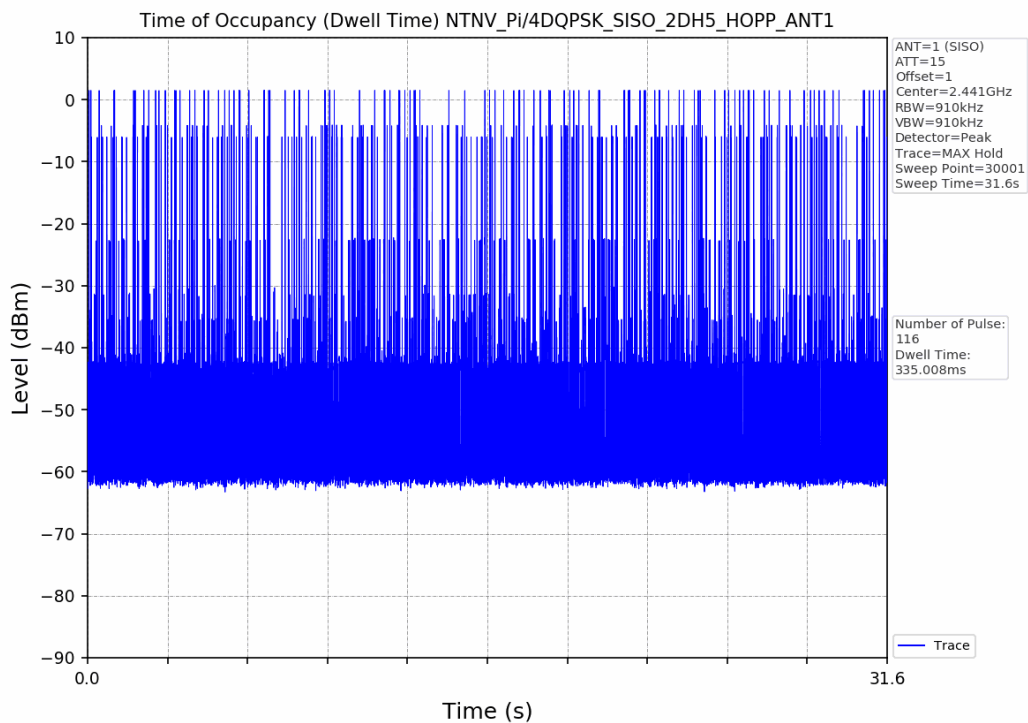


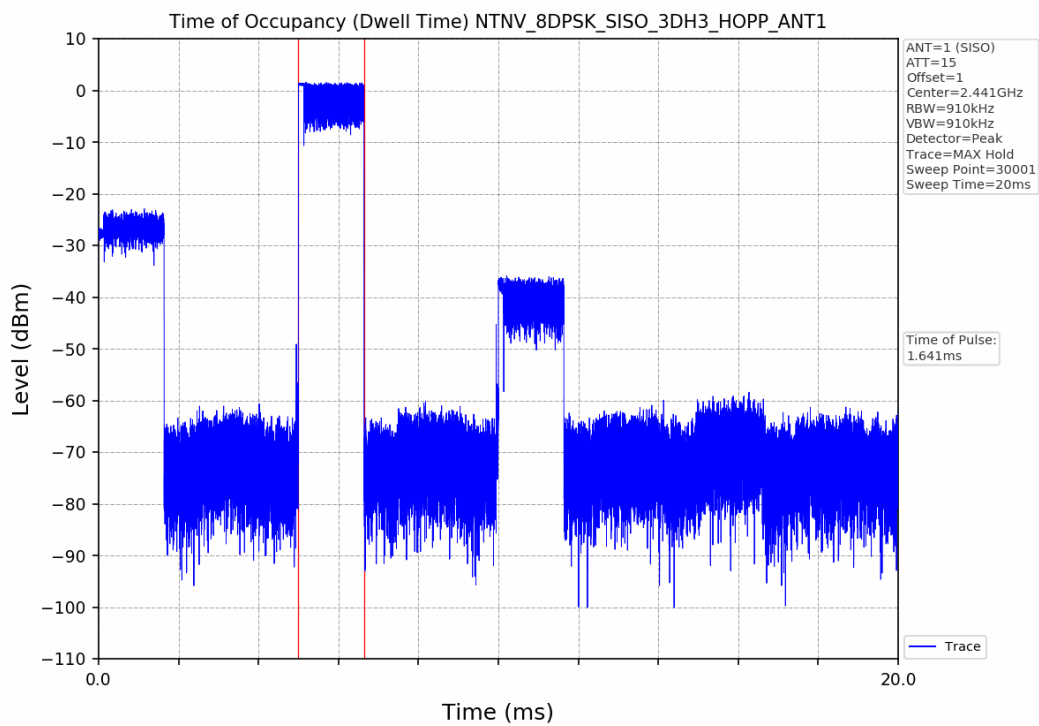
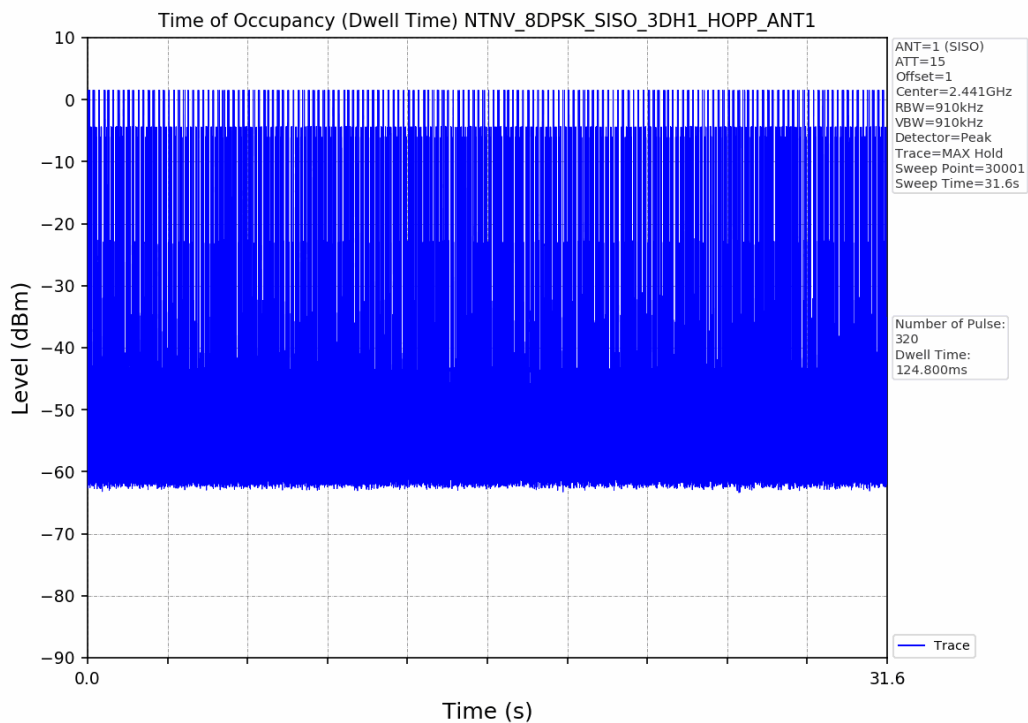


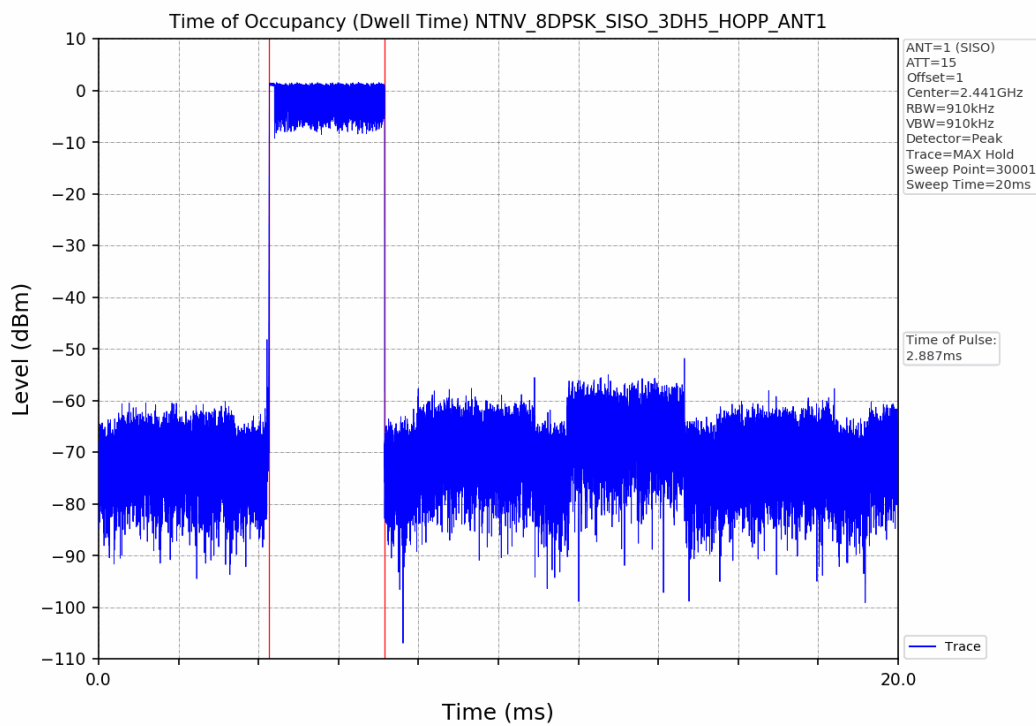
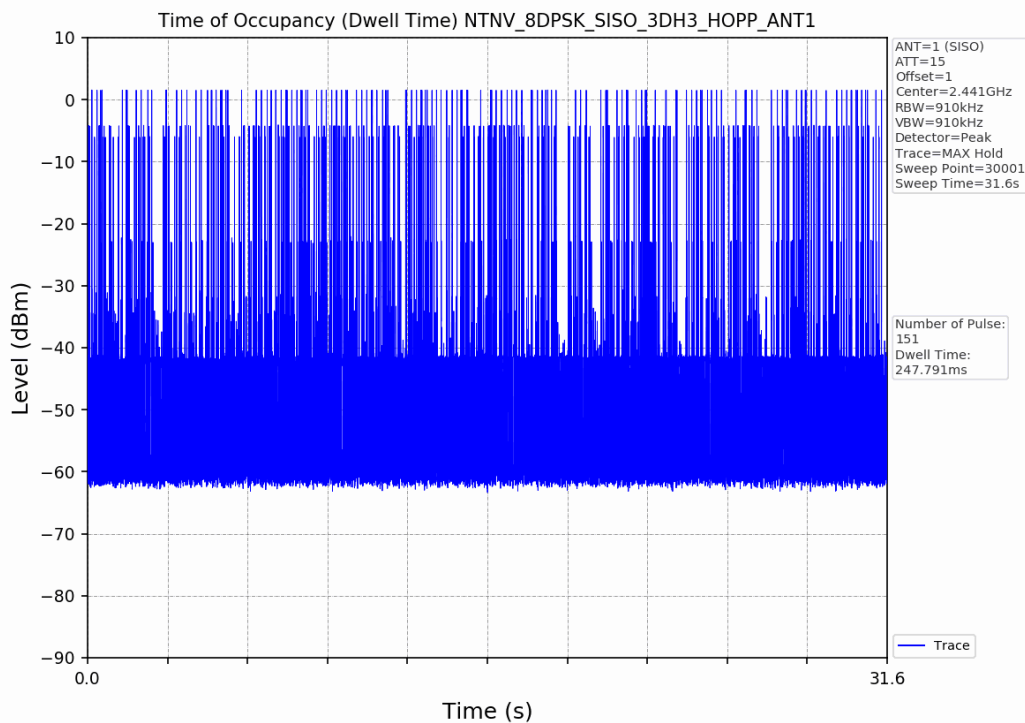


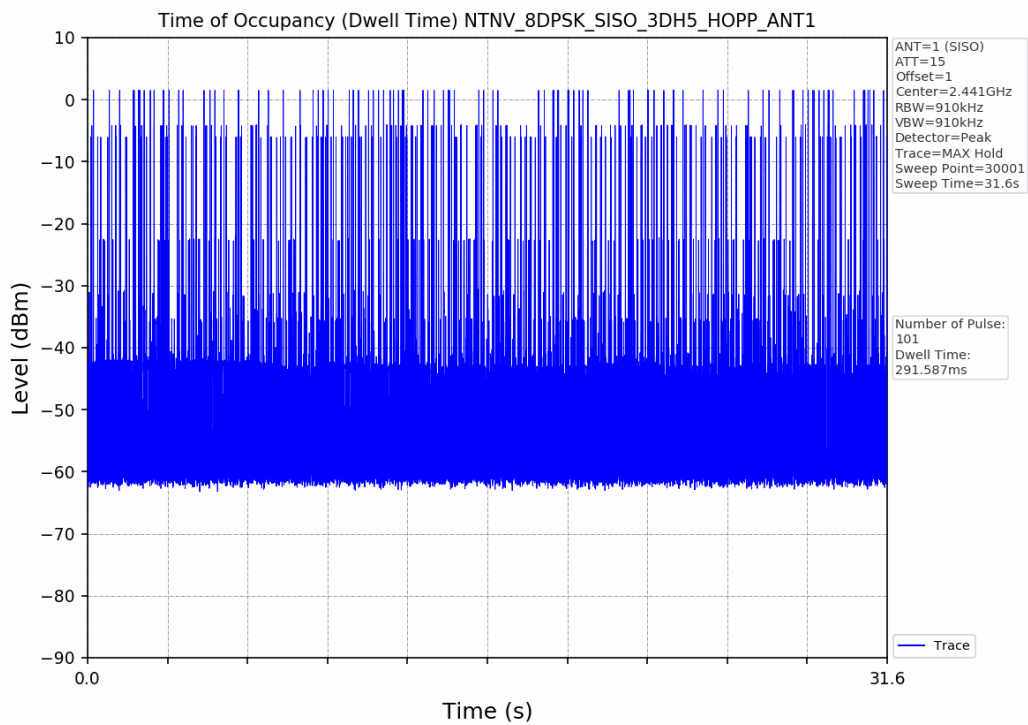










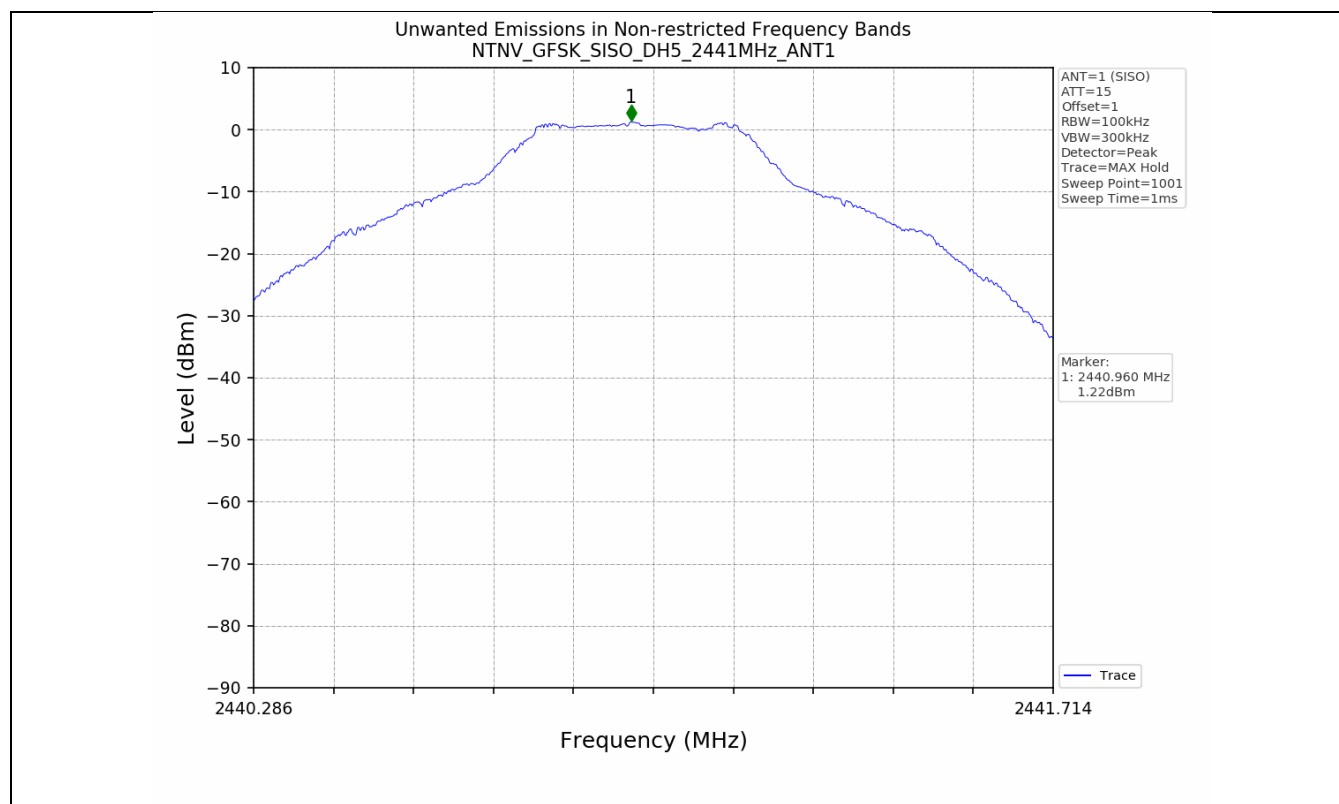


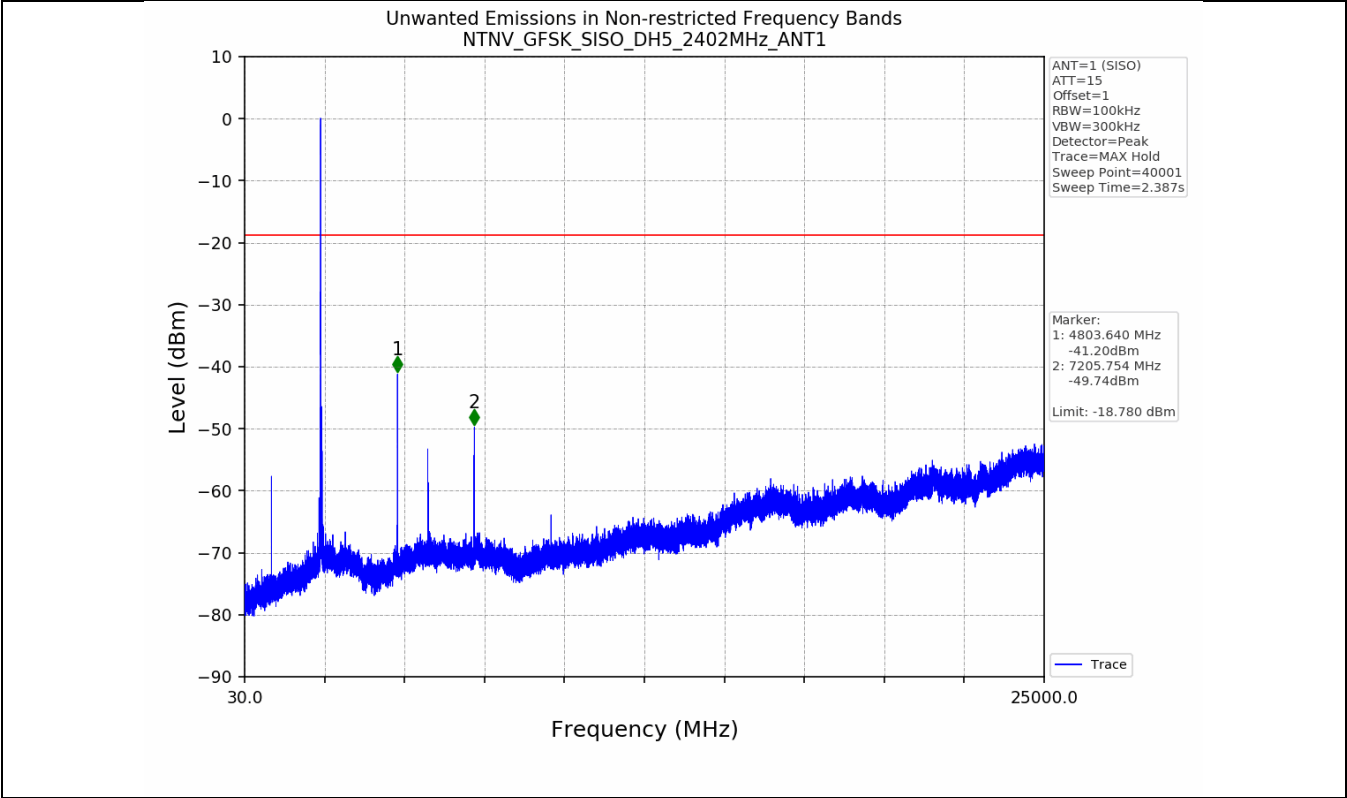
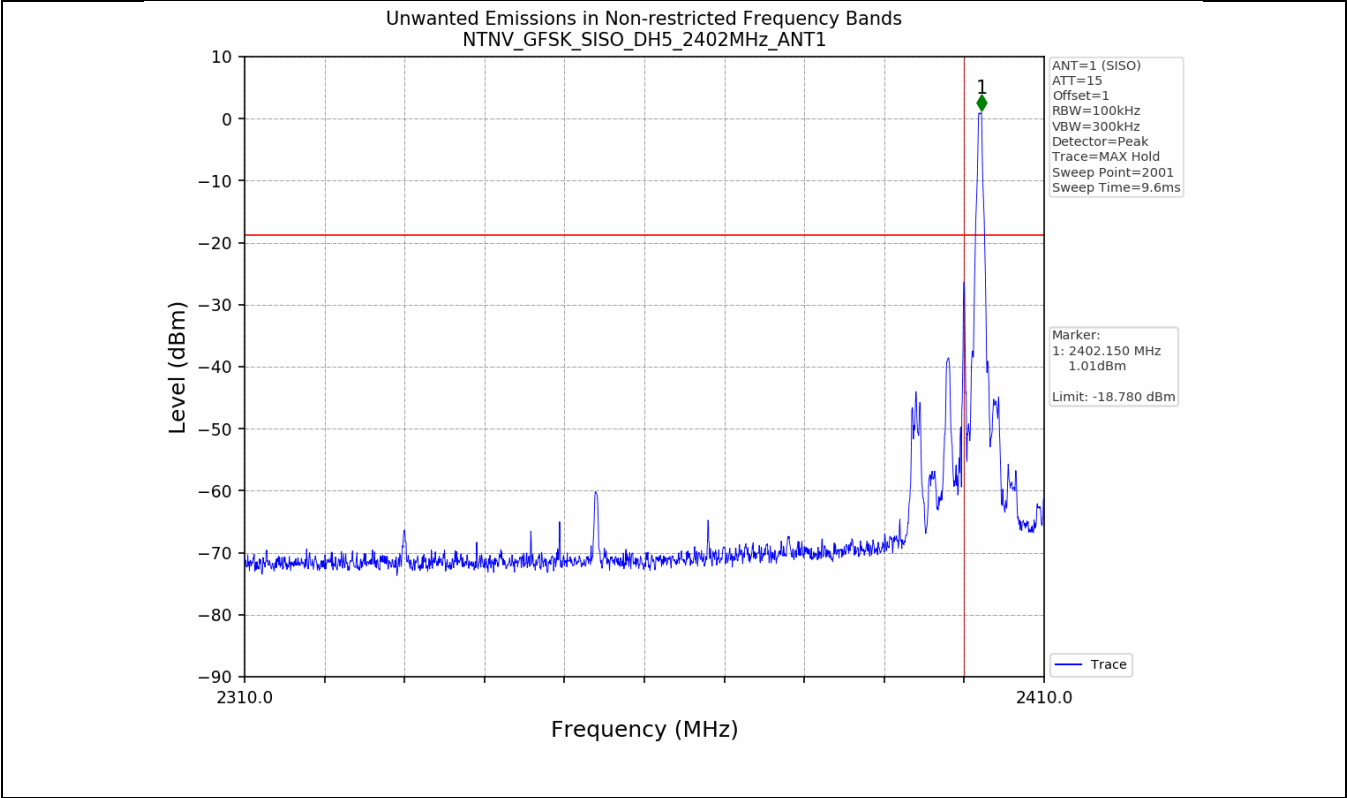
6. Unwanted Emissions in Non-restricted Frequency Bands

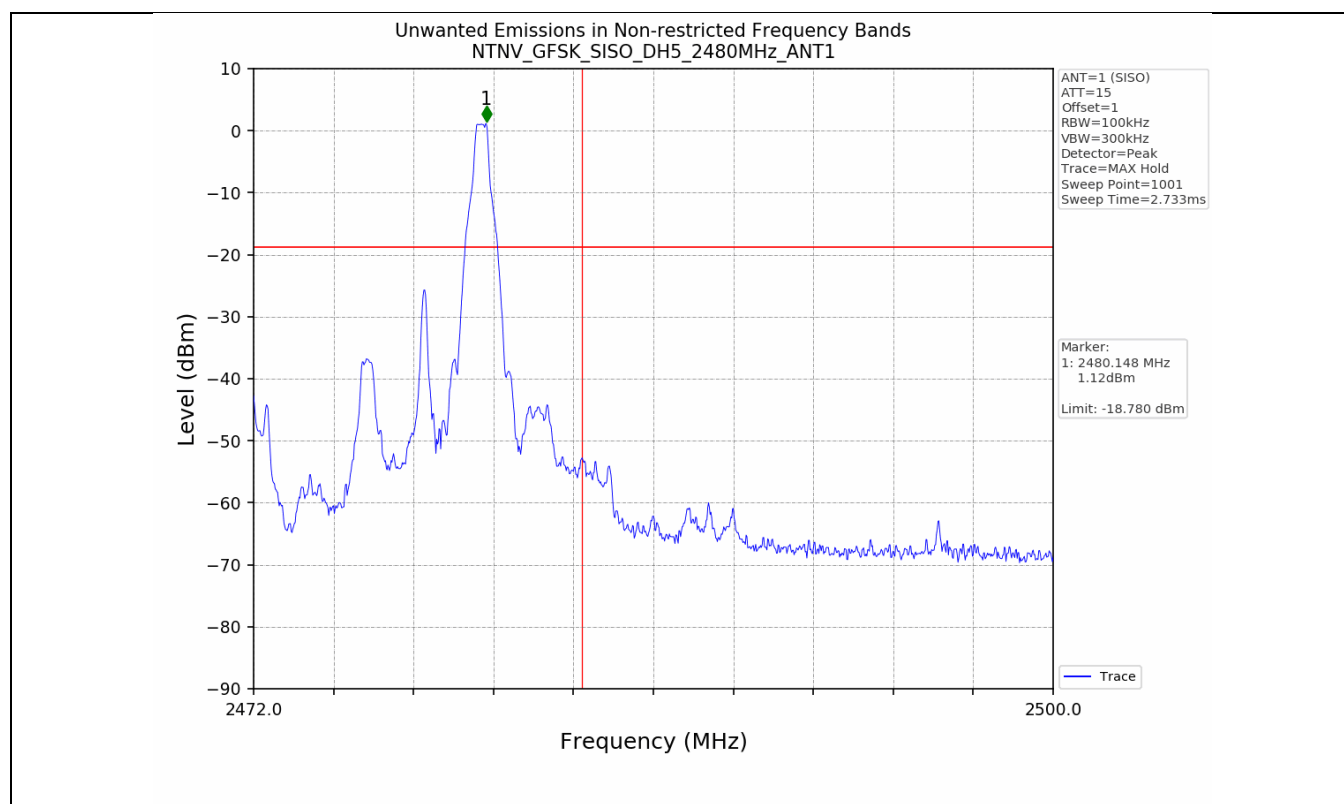
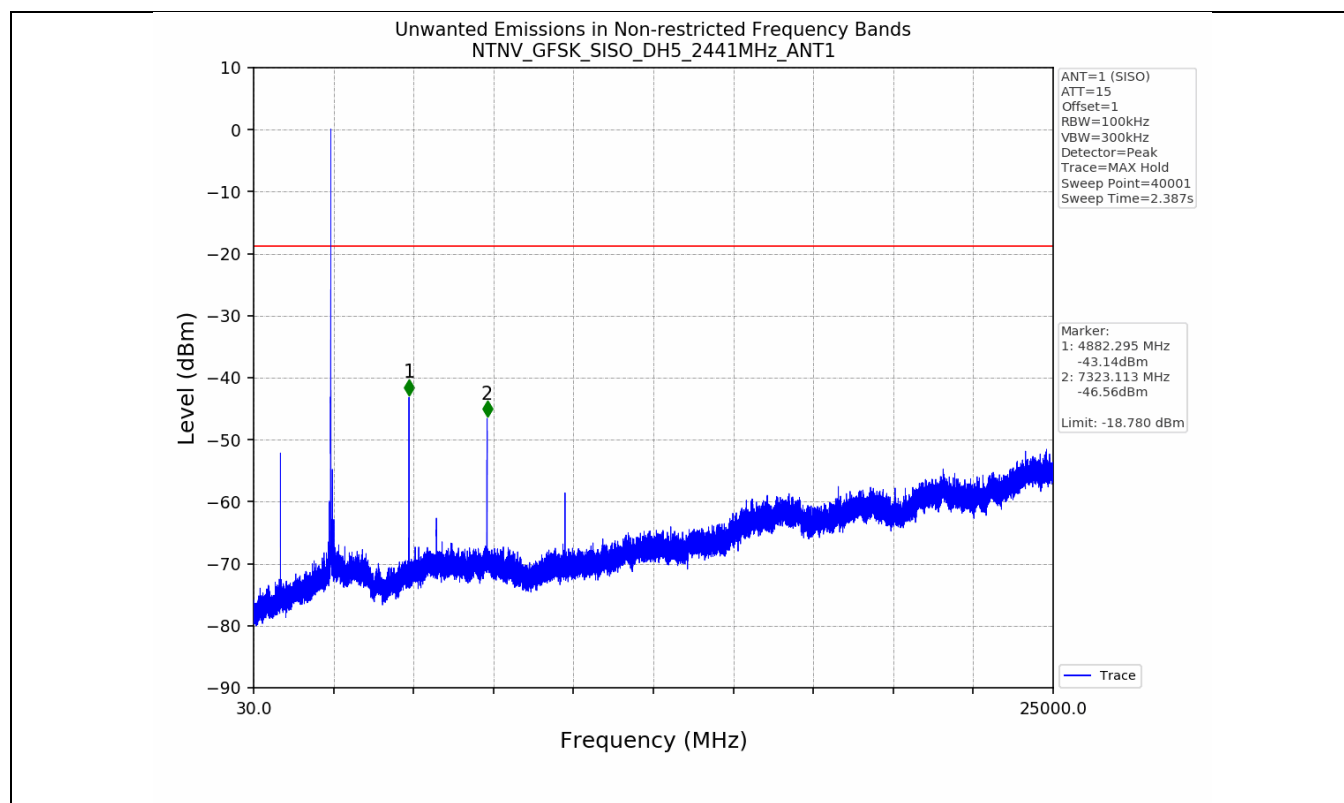
6.1 Test Result

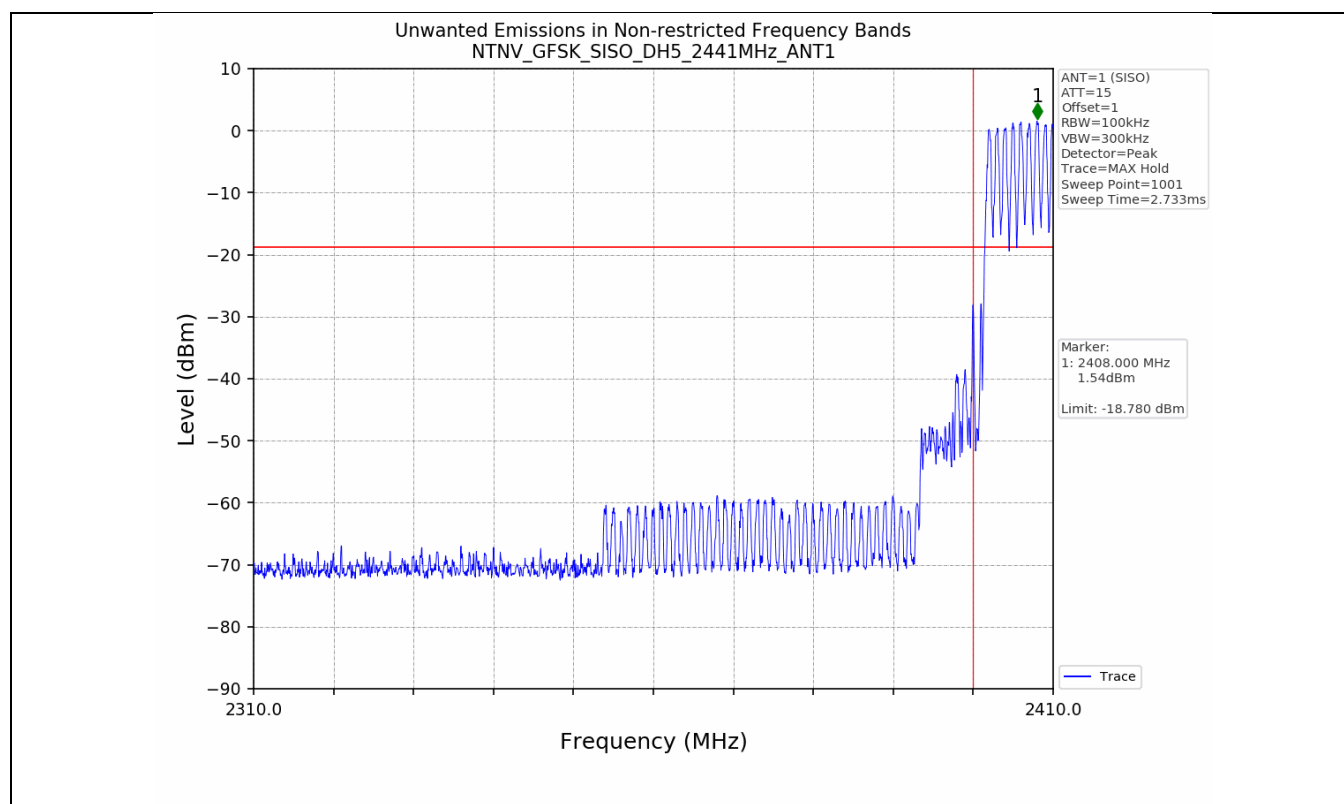
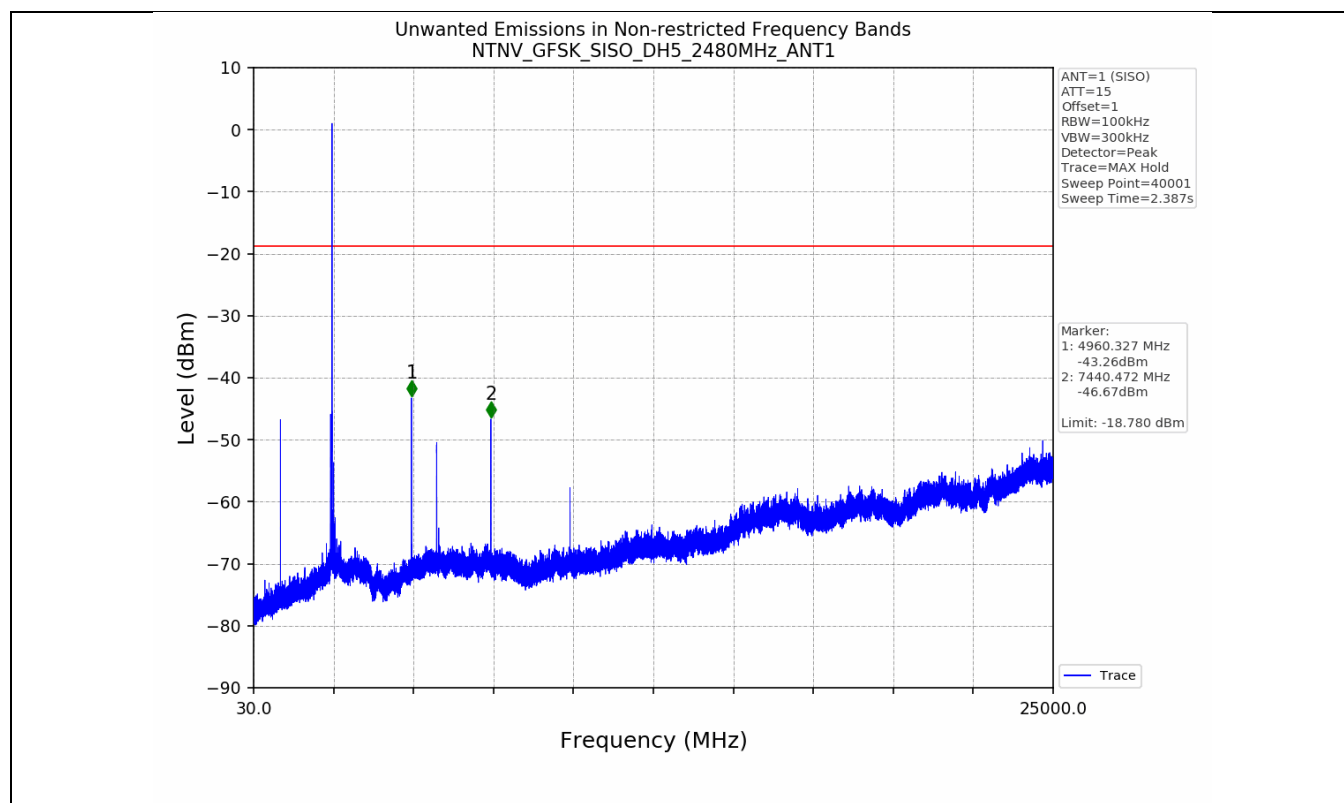
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-18.78	PASS
	2441	SISO	1	Refer to test graph	-18.78	PASS
	2480	SISO	1	Refer to test graph	-18.78	PASS
	Hopping	SISO	1	Refer to test graph	-18.78	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-18.65	PASS
	2441	SISO	1	Refer to test graph	-18.65	PASS
	2480	SISO	1	Refer to test graph	-18.65	PASS
	Hopping	SISO	1	Refer to test graph	-18.65	PASS
8DPSK	2402	SISO	1	Refer to test graph	-18.72	PASS
	2441	SISO	1	Refer to test graph	-18.72	PASS
	2480	SISO	1	Refer to test graph	-18.72	PASS
	Hopping	SISO	1	Refer to test graph	-18.72	PASS

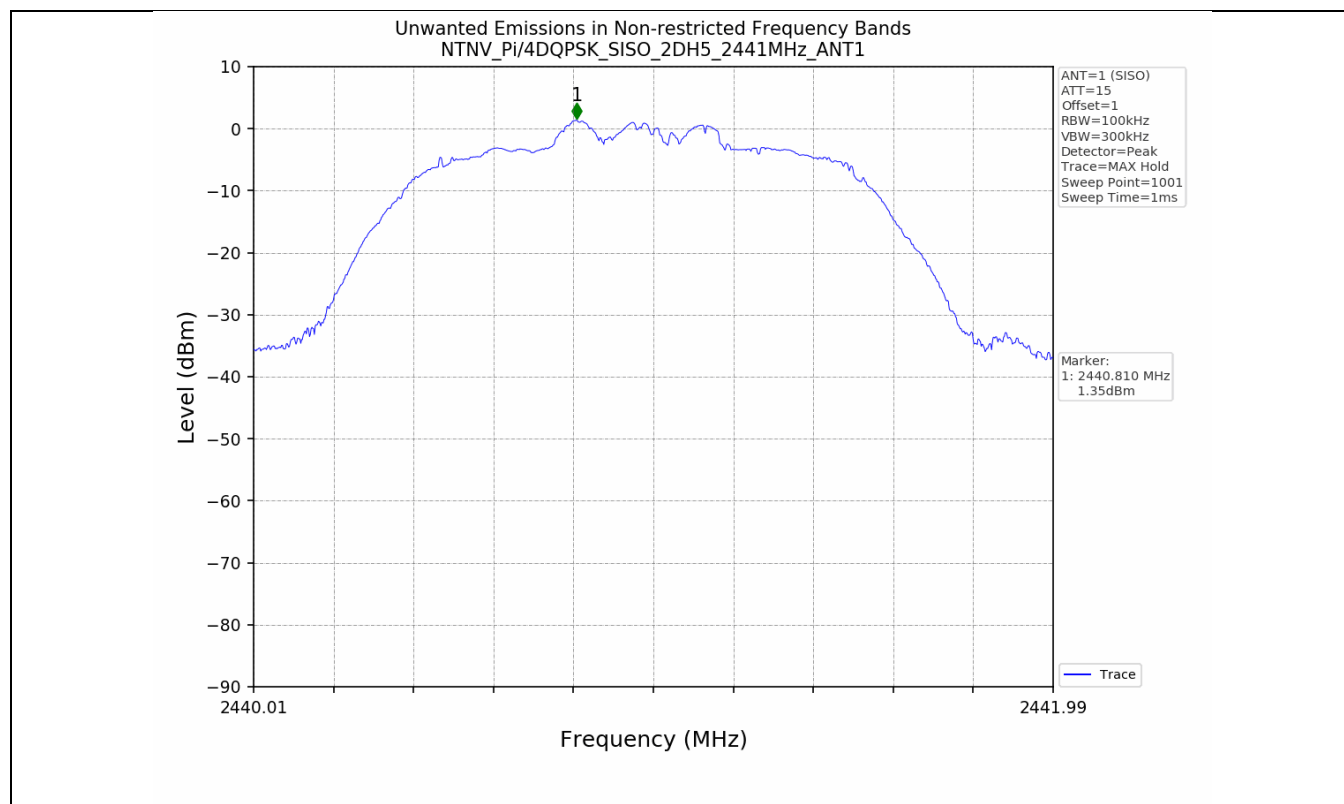
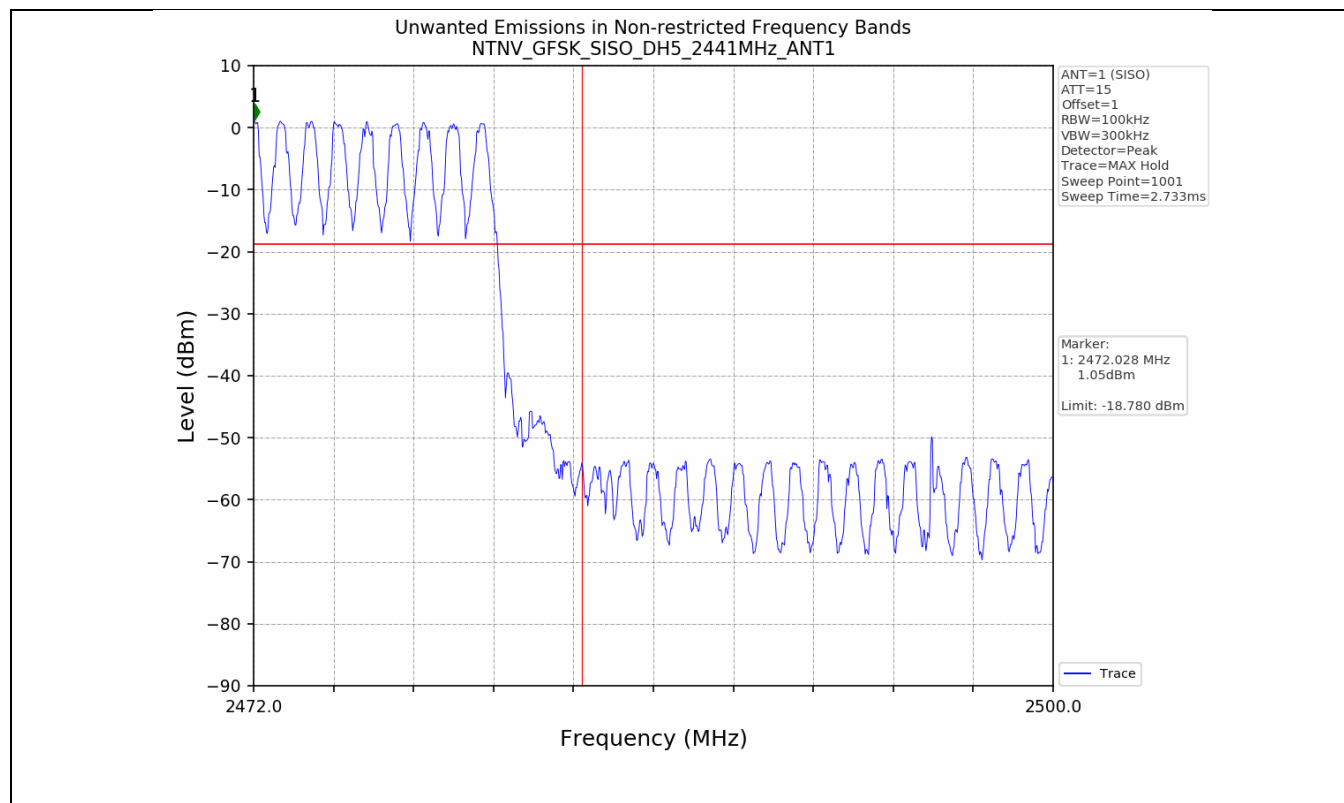
6.2 Test Graph

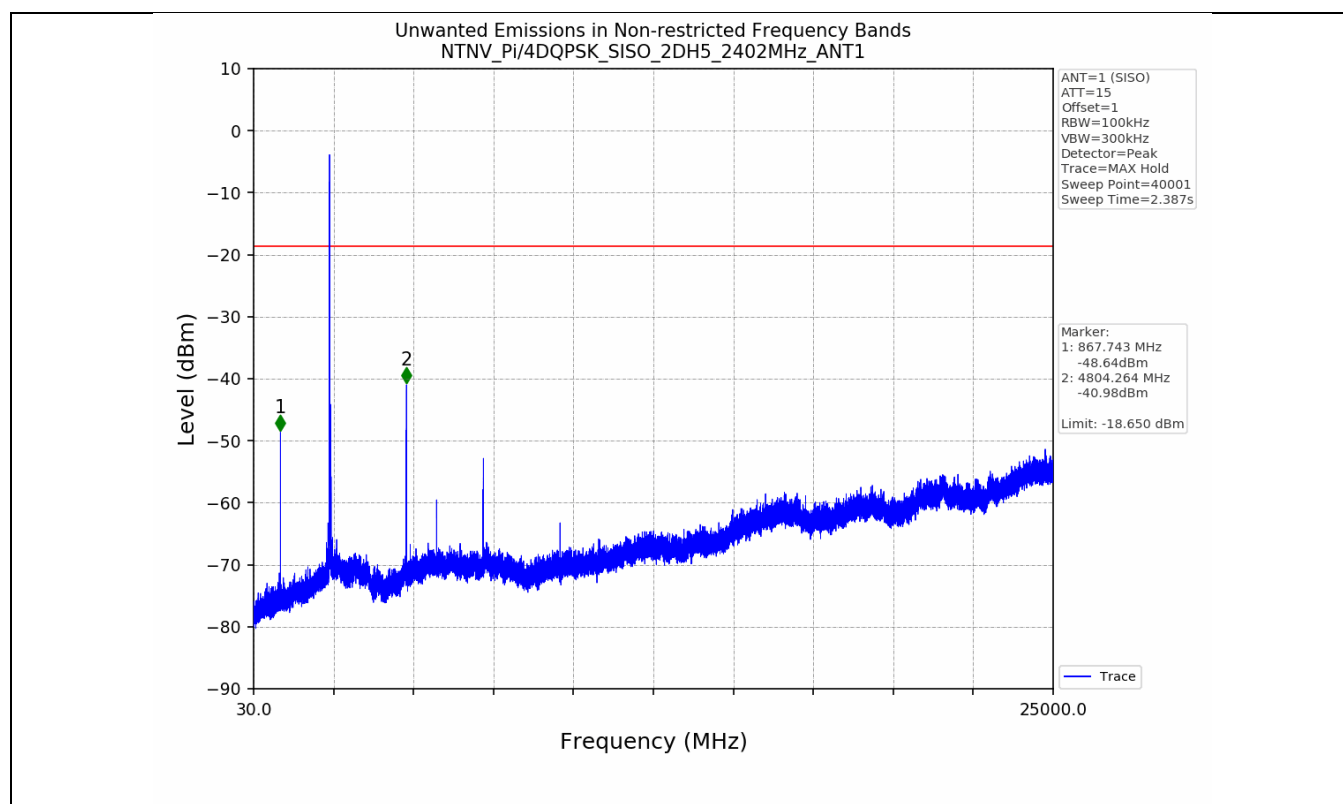
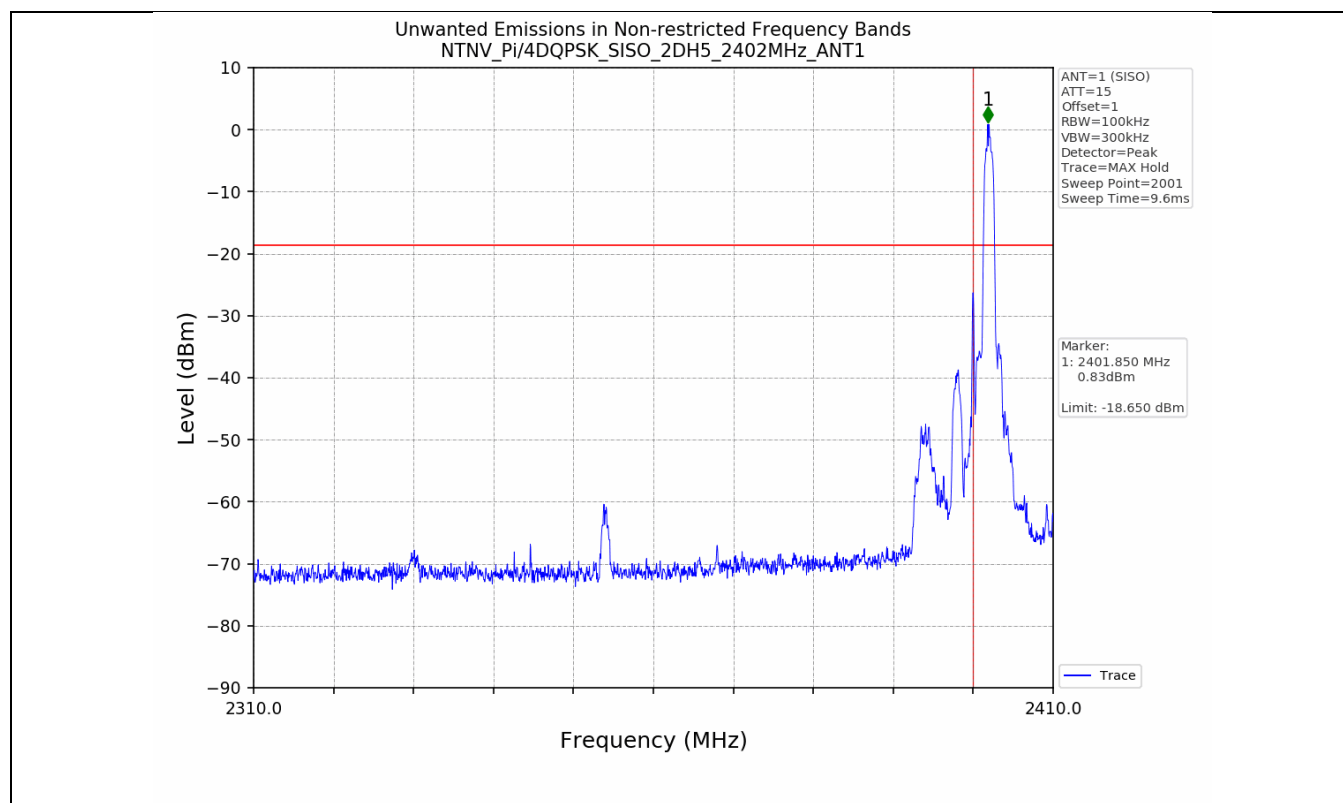


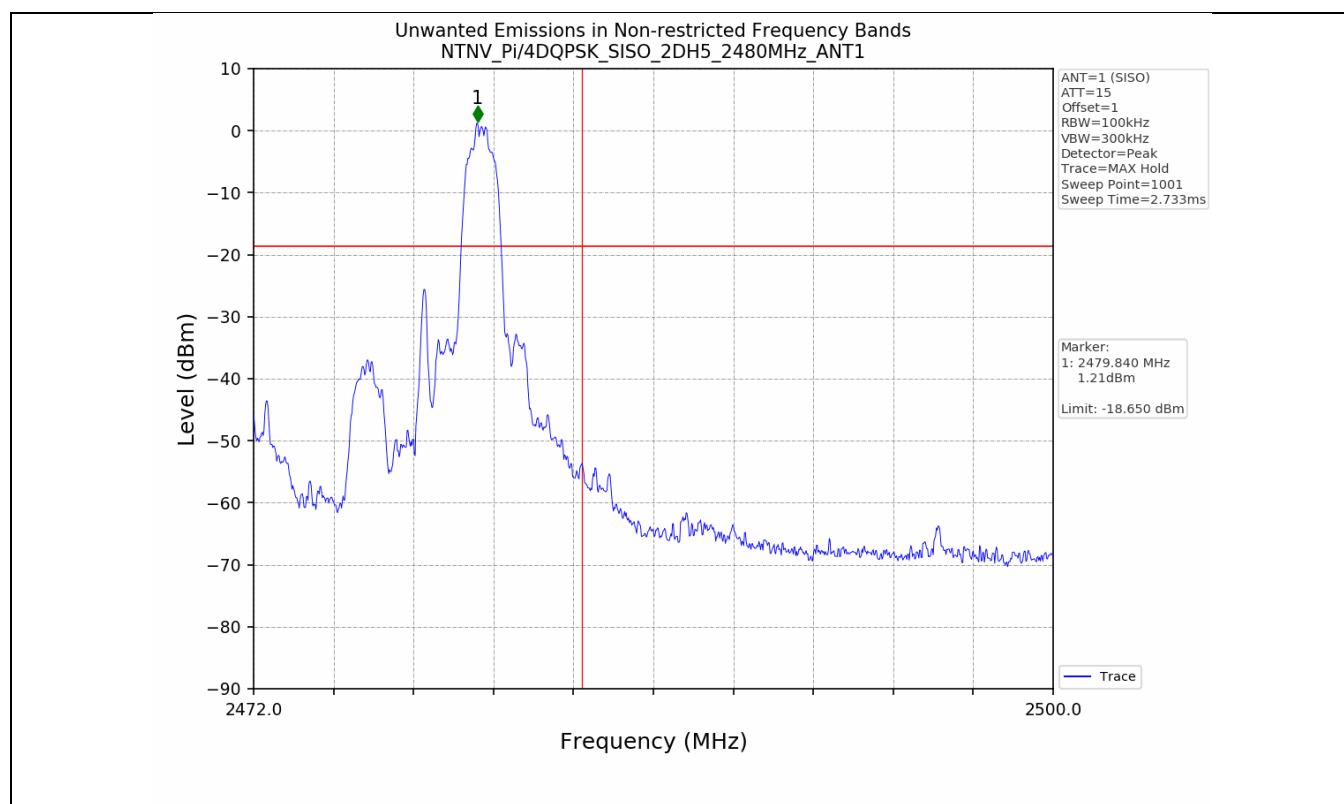
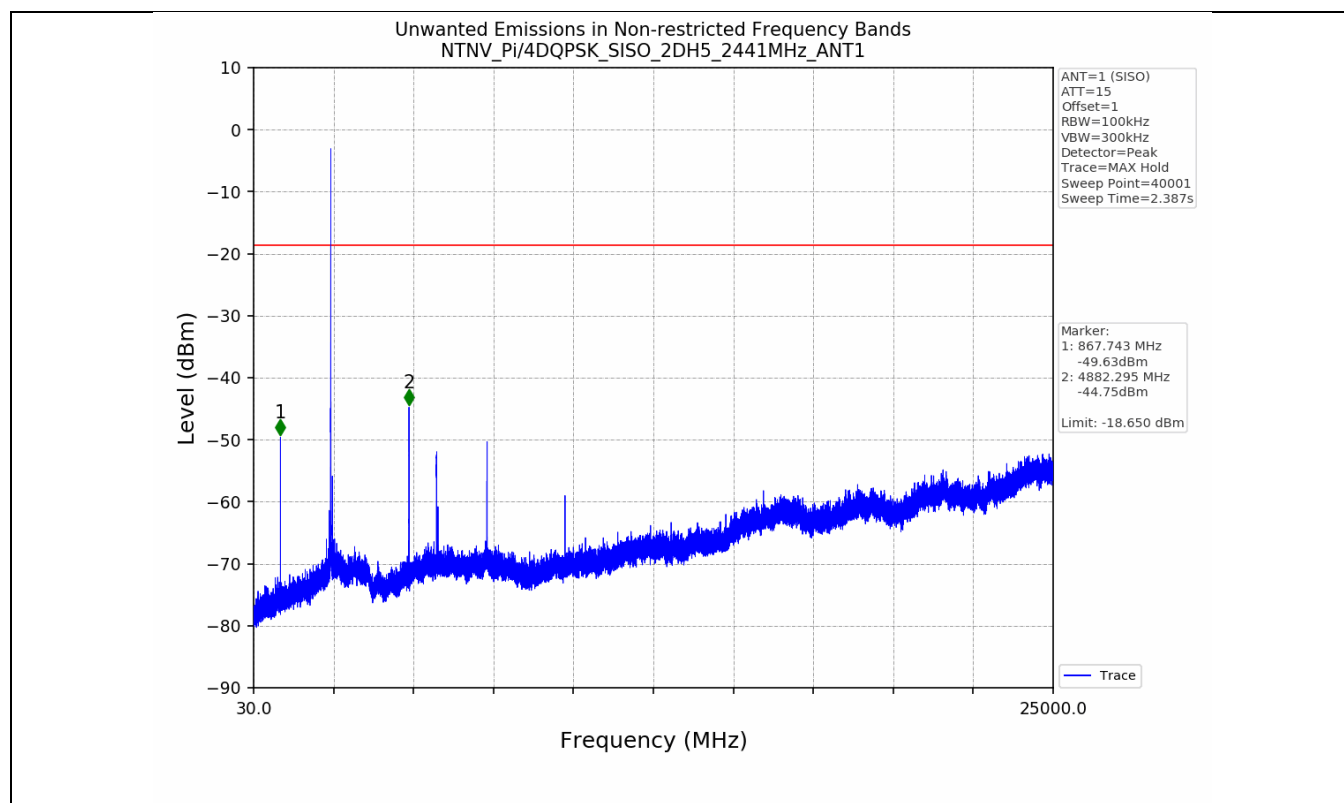


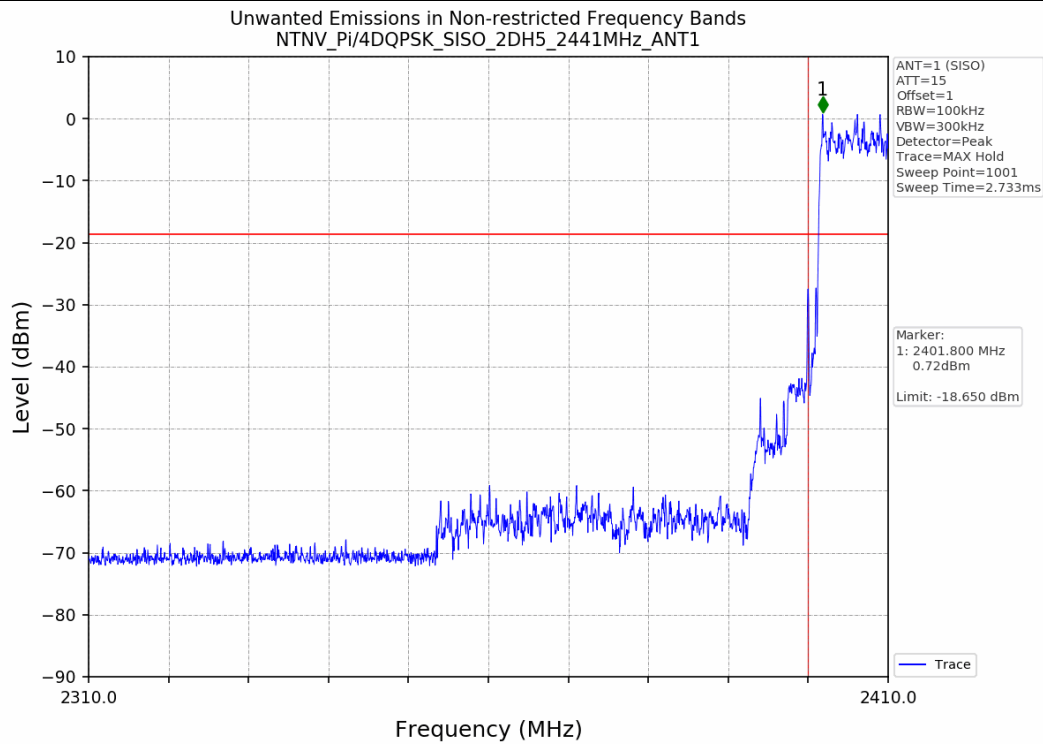
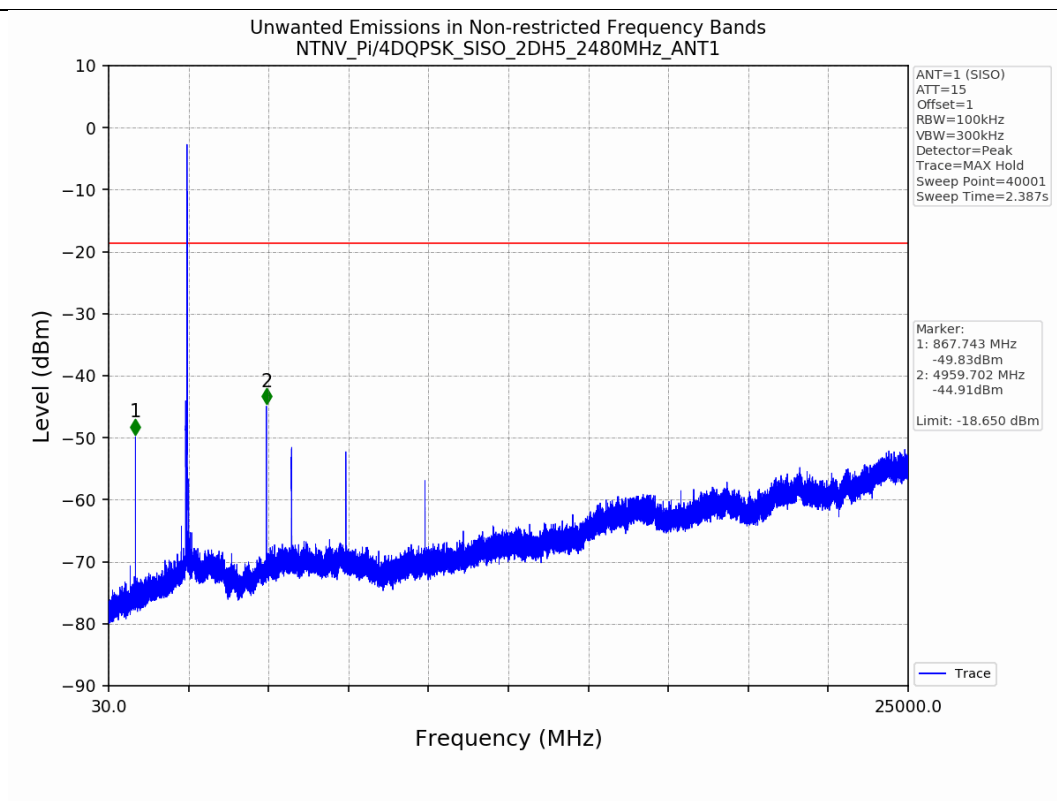


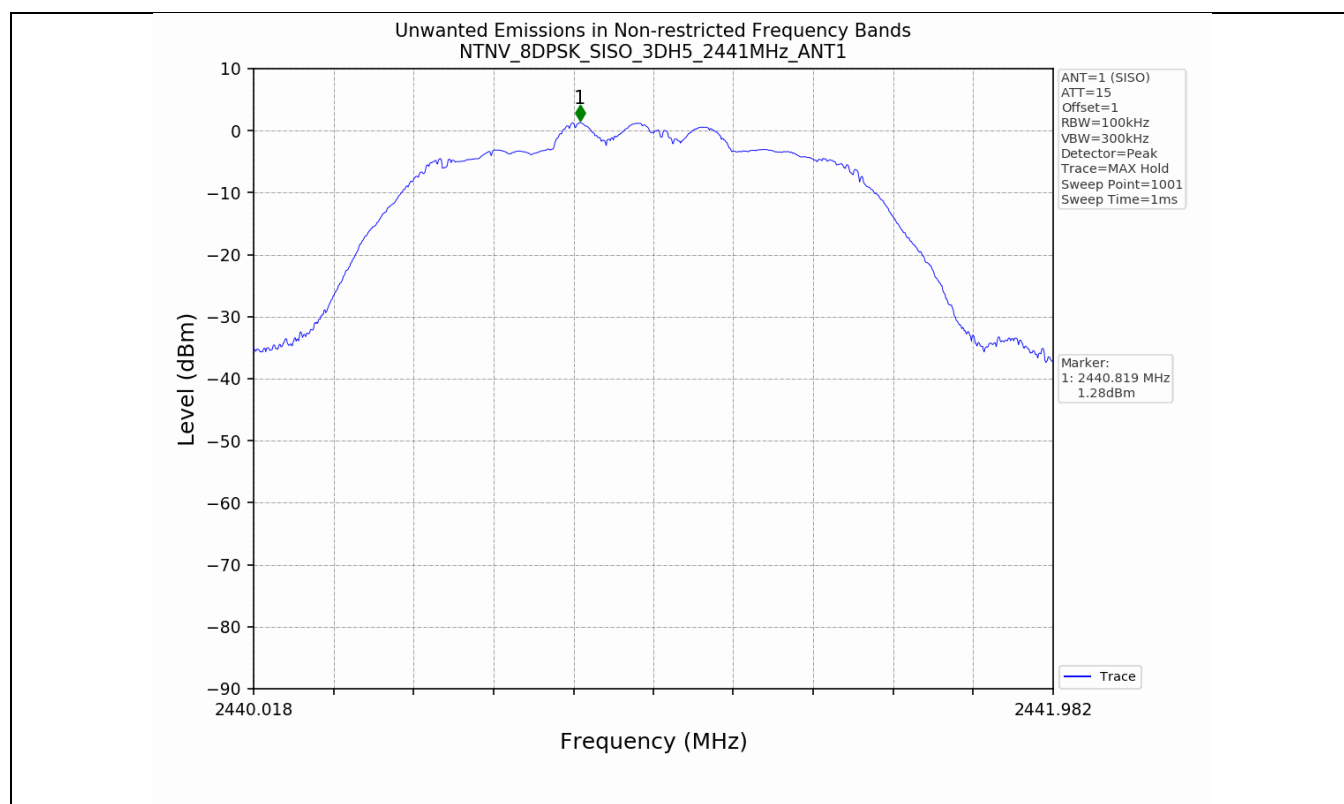
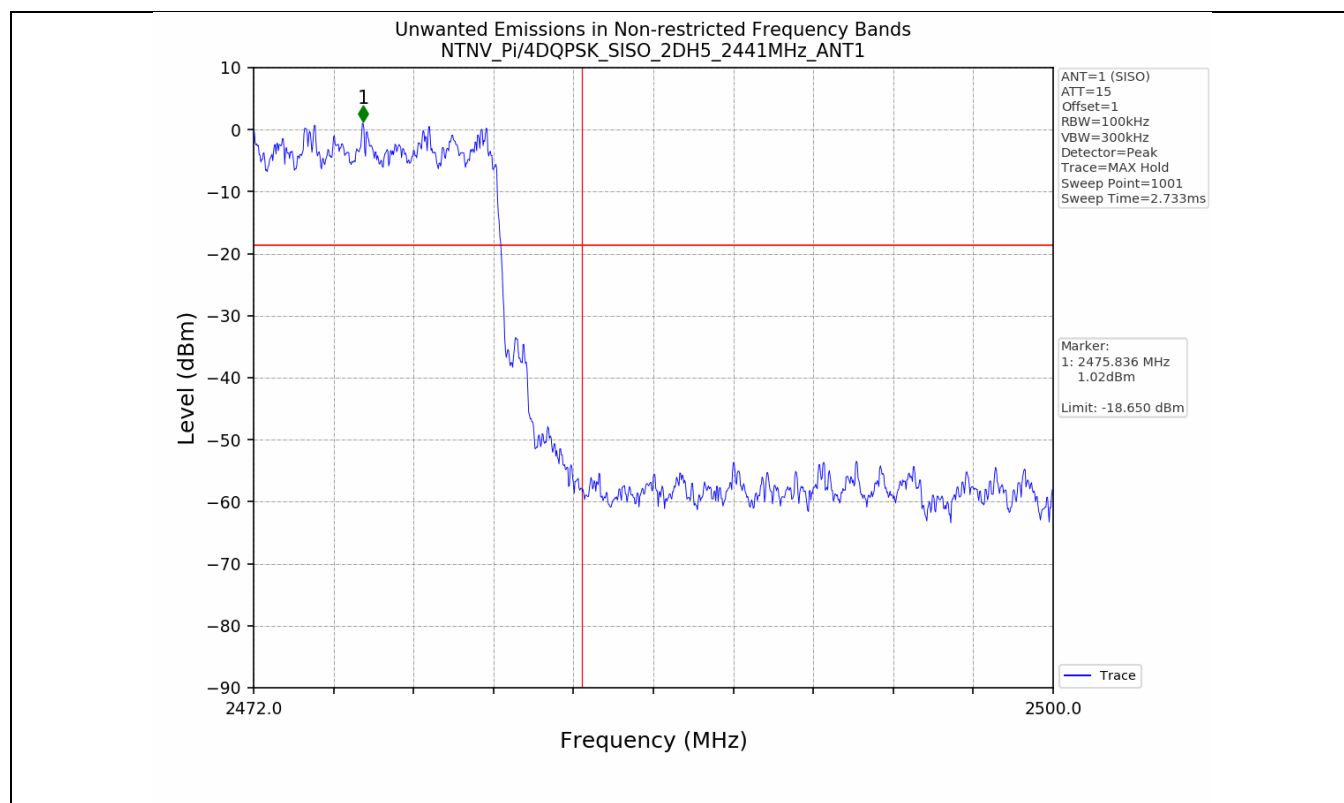


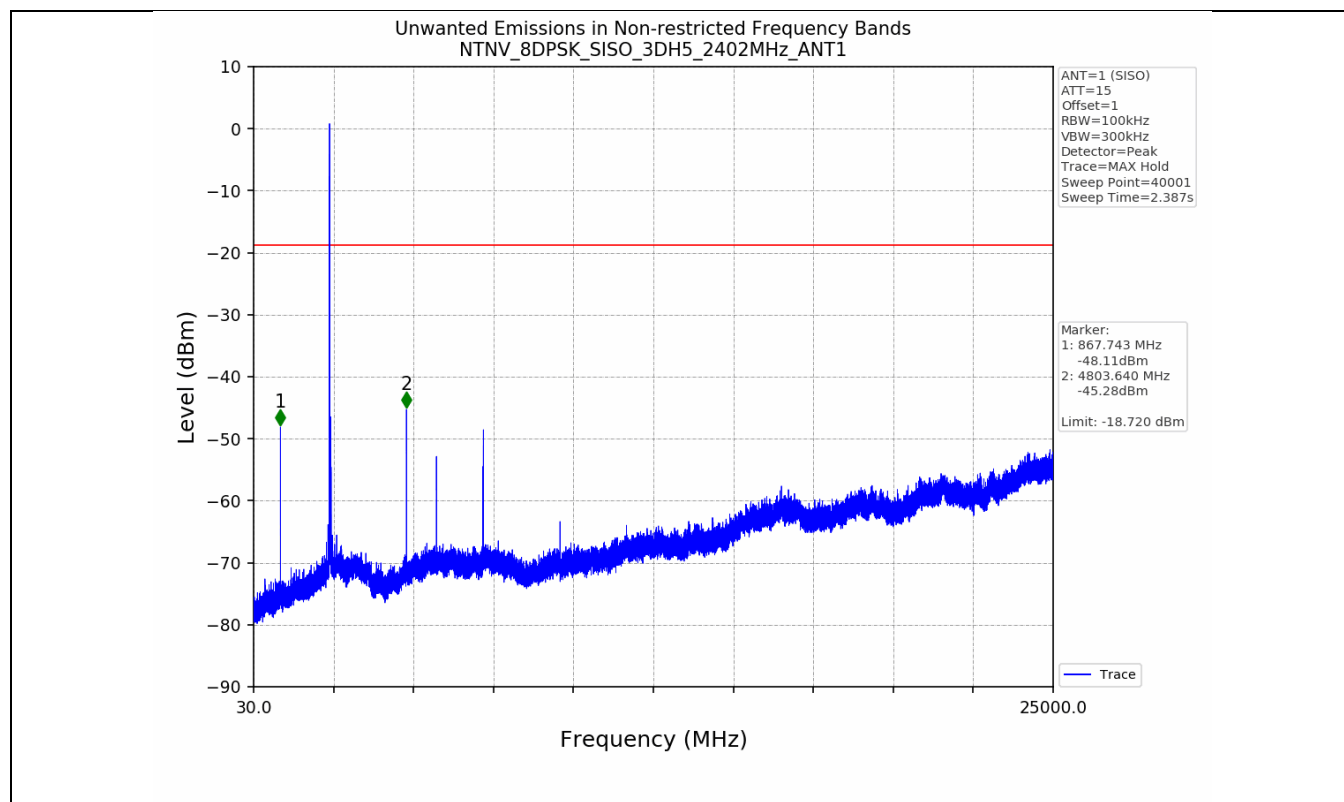
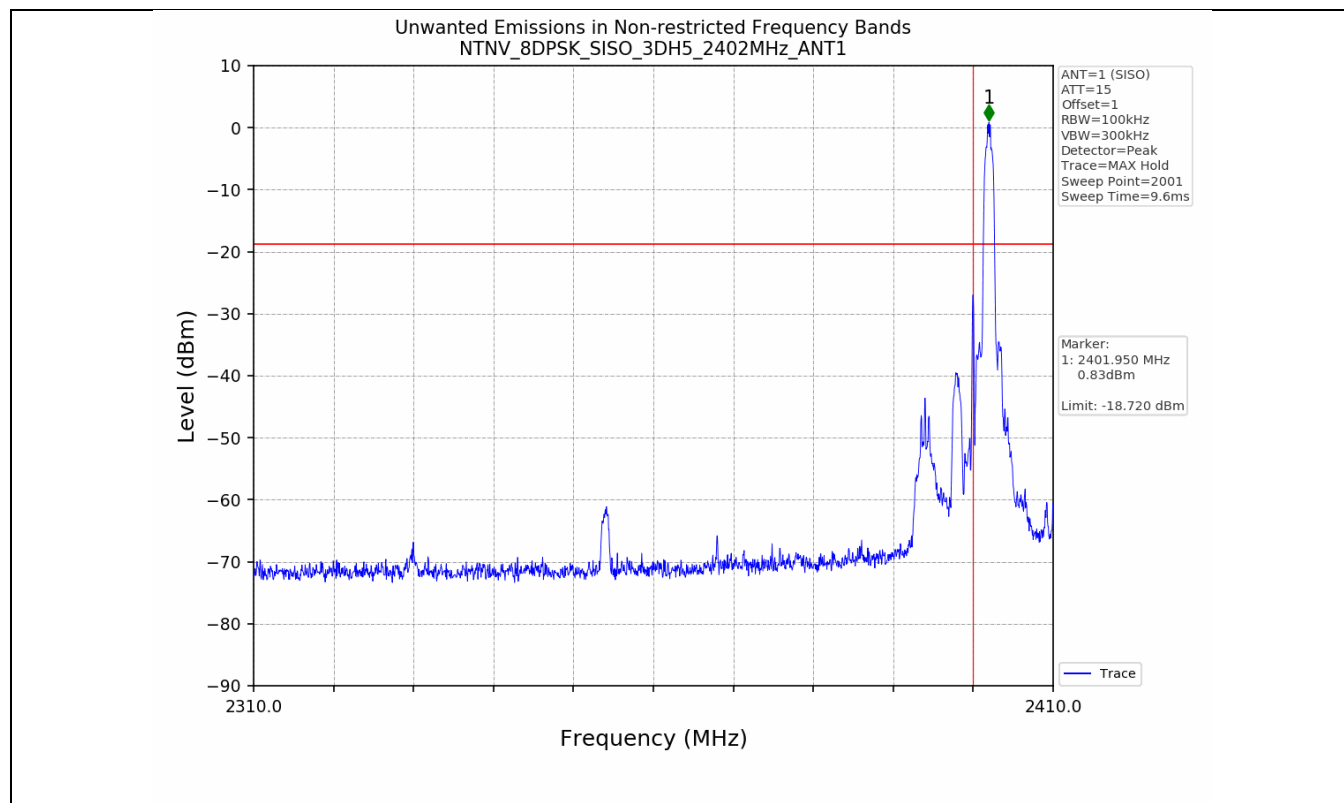


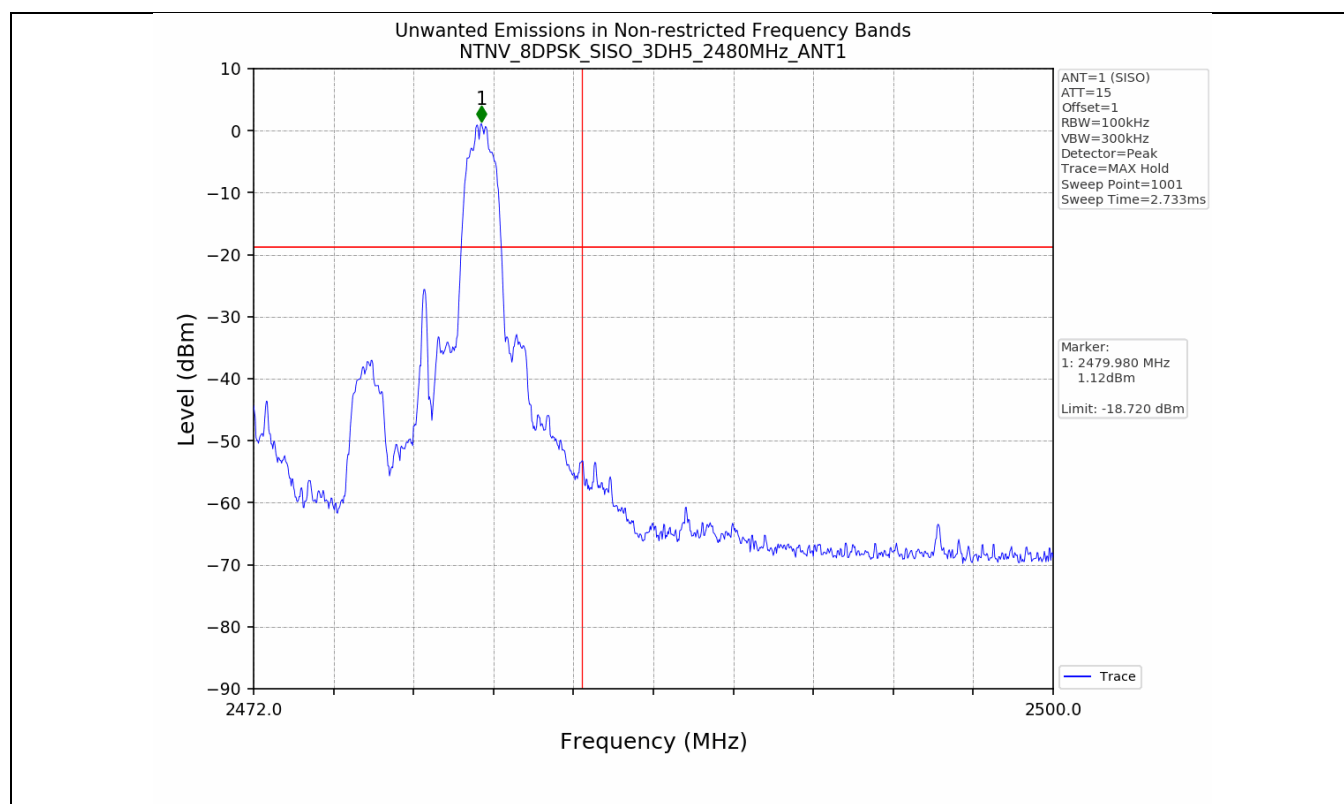
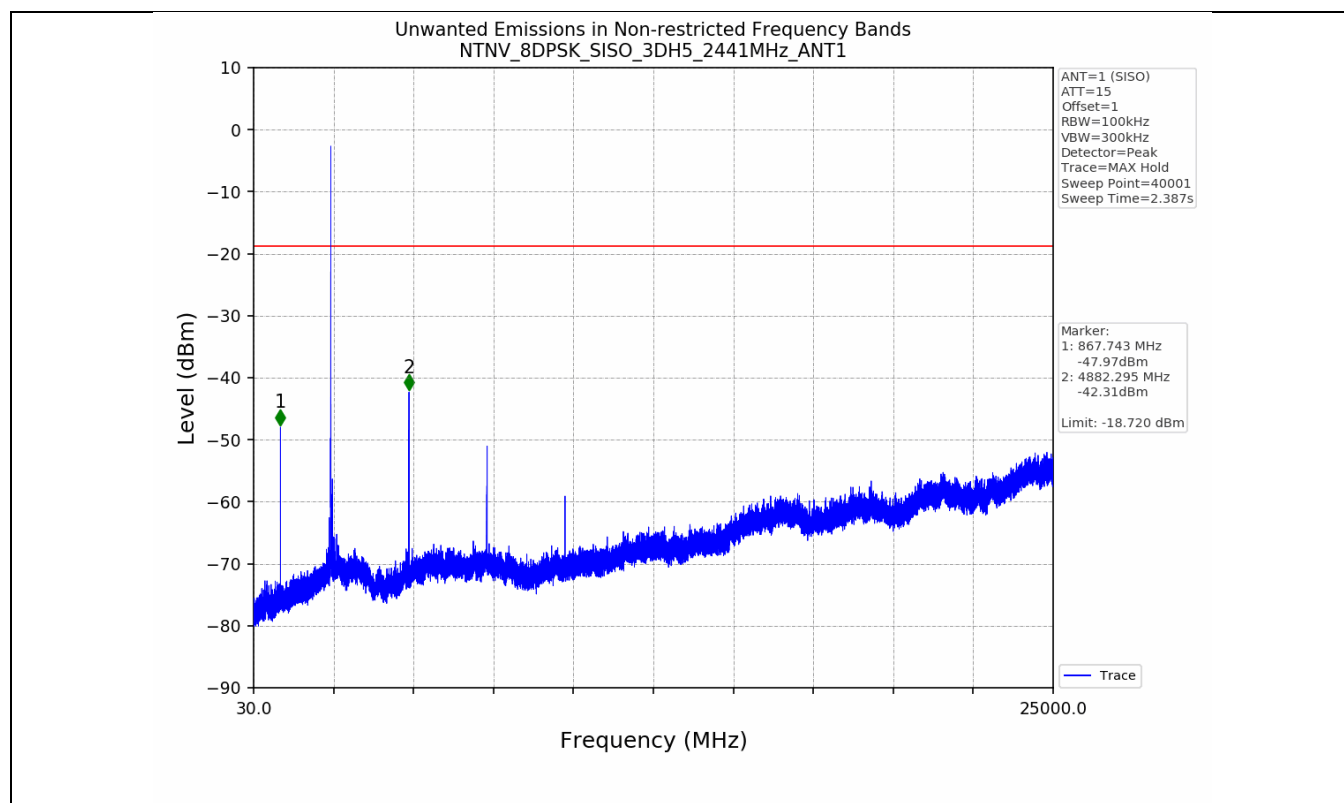


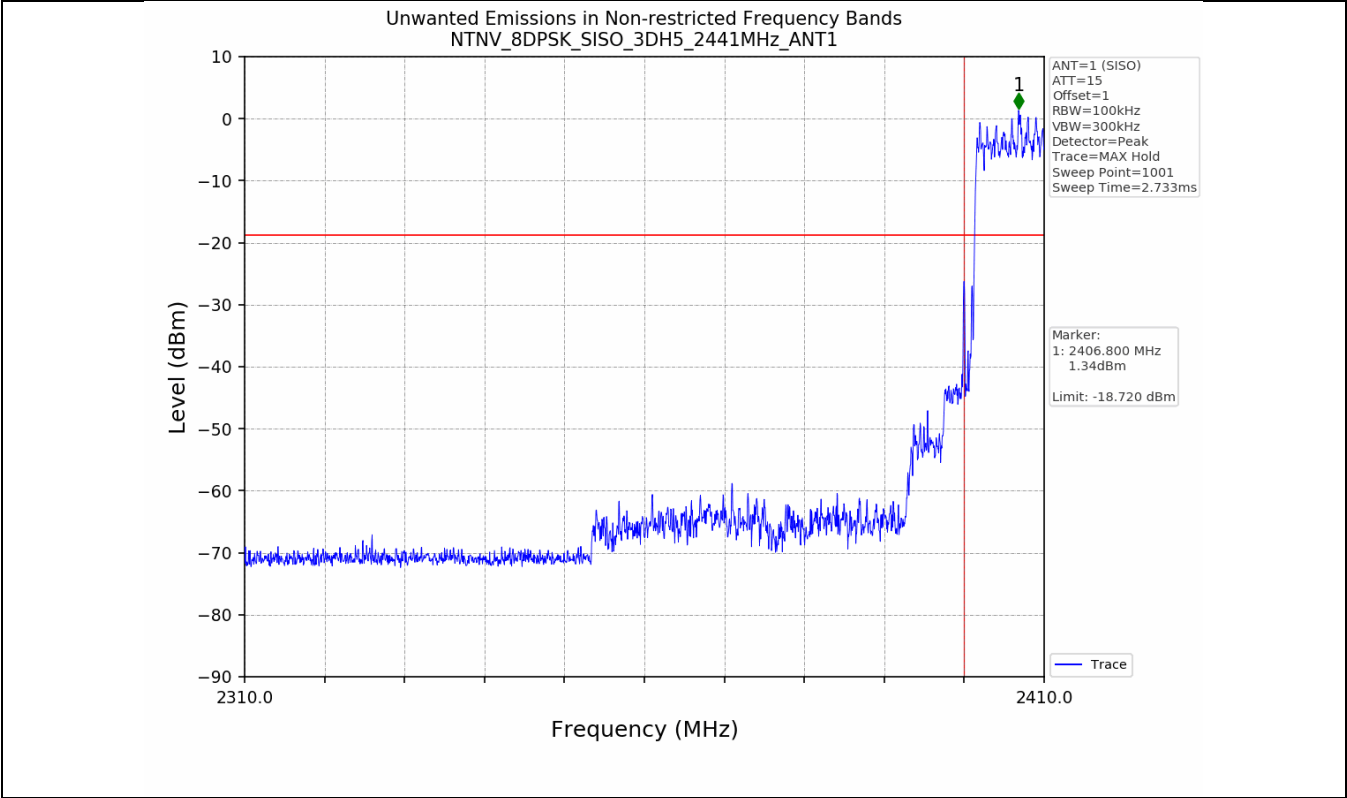
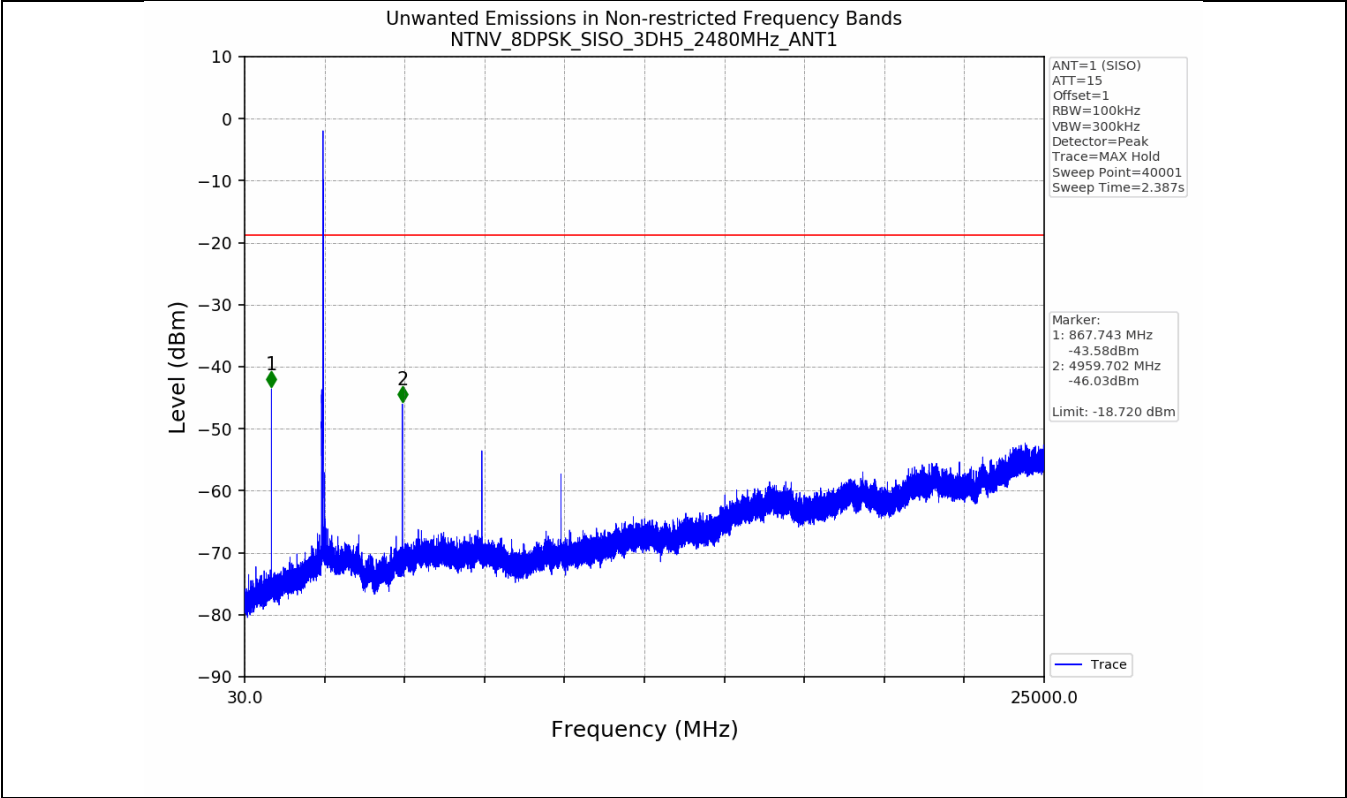


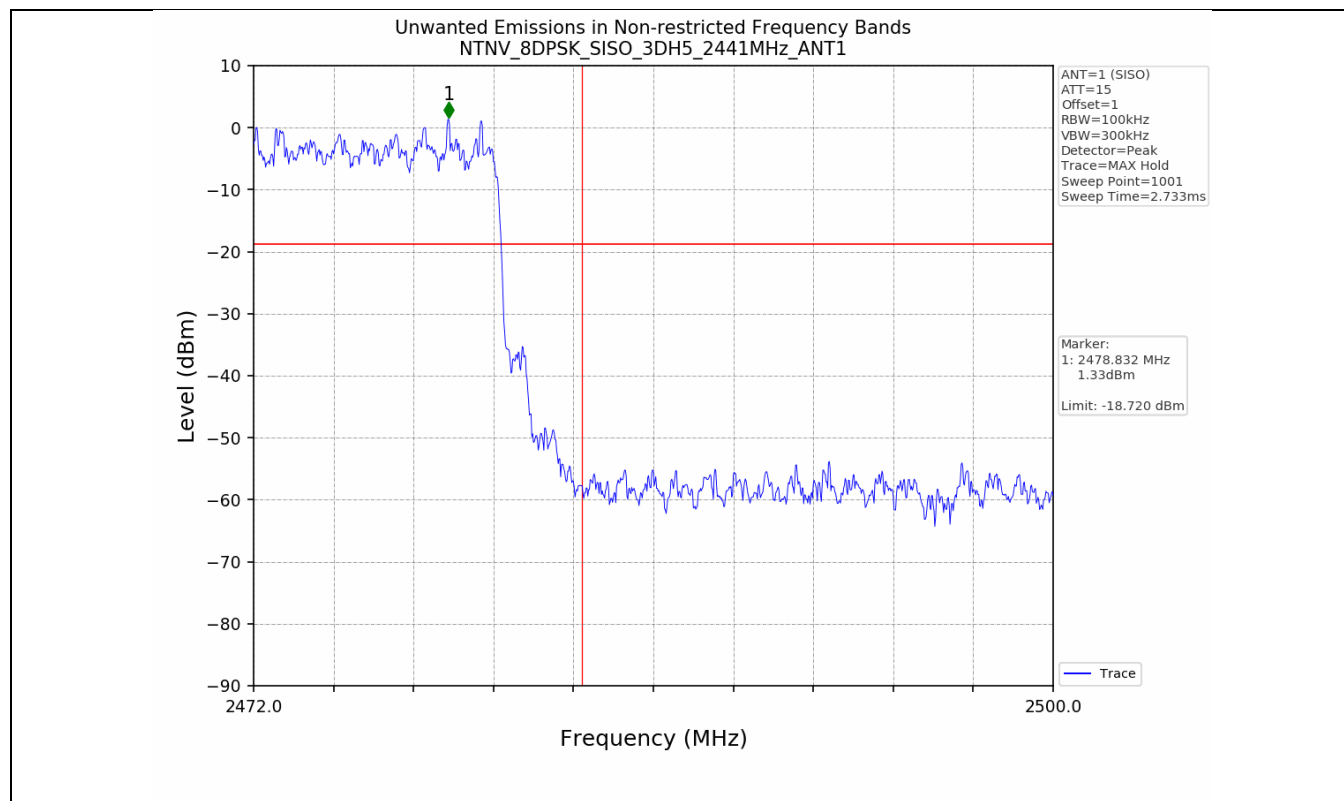












7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2401.97	2400-2483.5	PASS
	2441	SISO	1	2440.96	2400-2483.5	PASS
	2480	SISO	1	2479.97	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2401.97	2400-2483.5	PASS
	2441	SISO	1	2440.96	2400-2483.5	PASS
	2480	SISO	1	2479.96	2400-2483.5	PASS

7.2 Test Graph

