

Appendix for 15.247

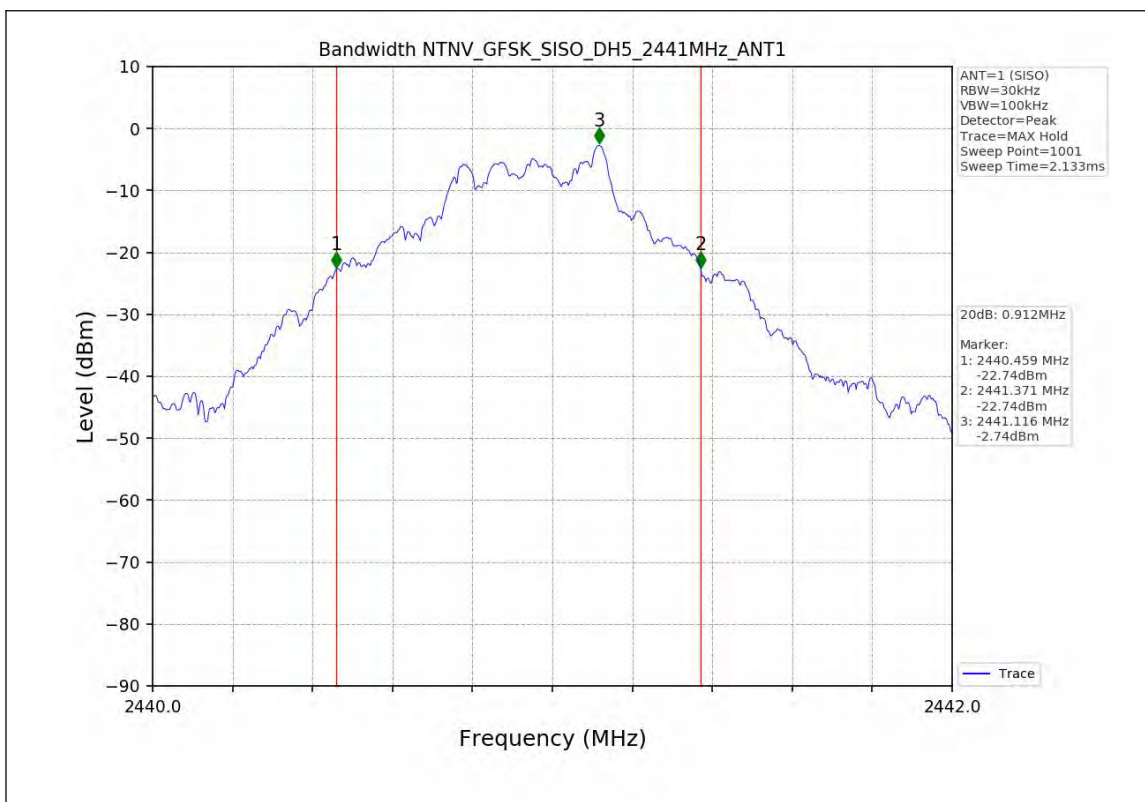
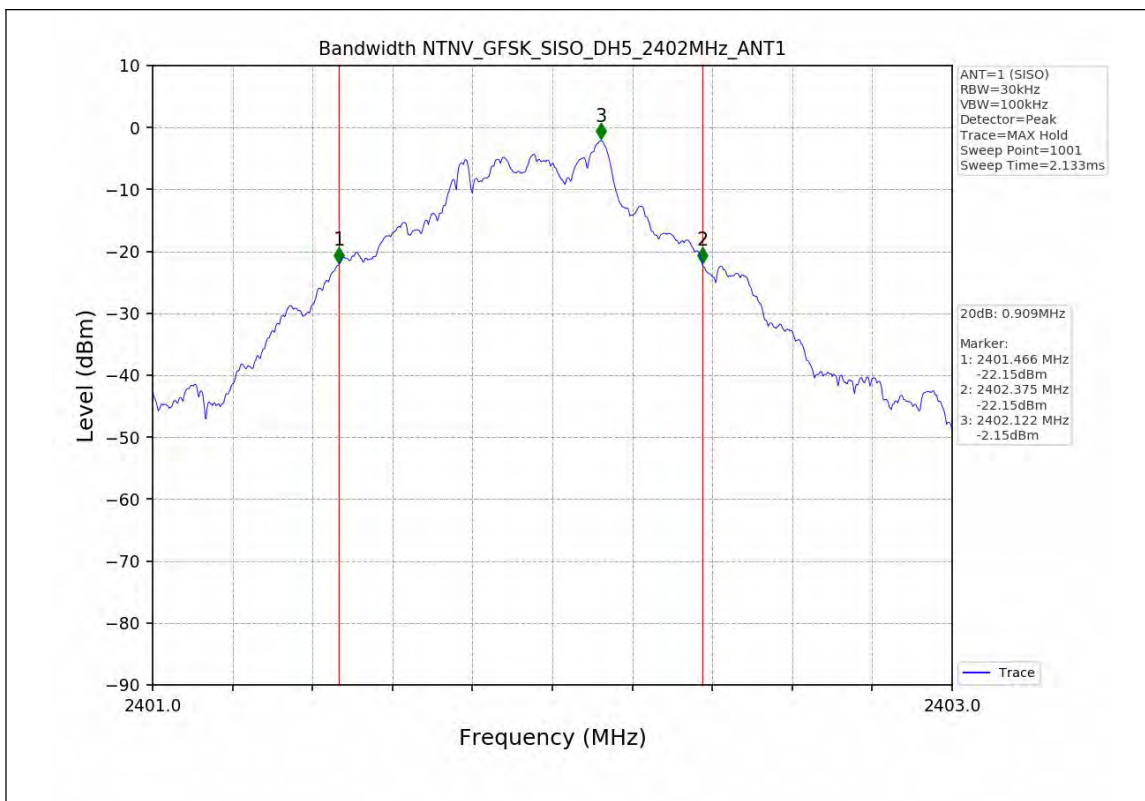
1. Bandwidth

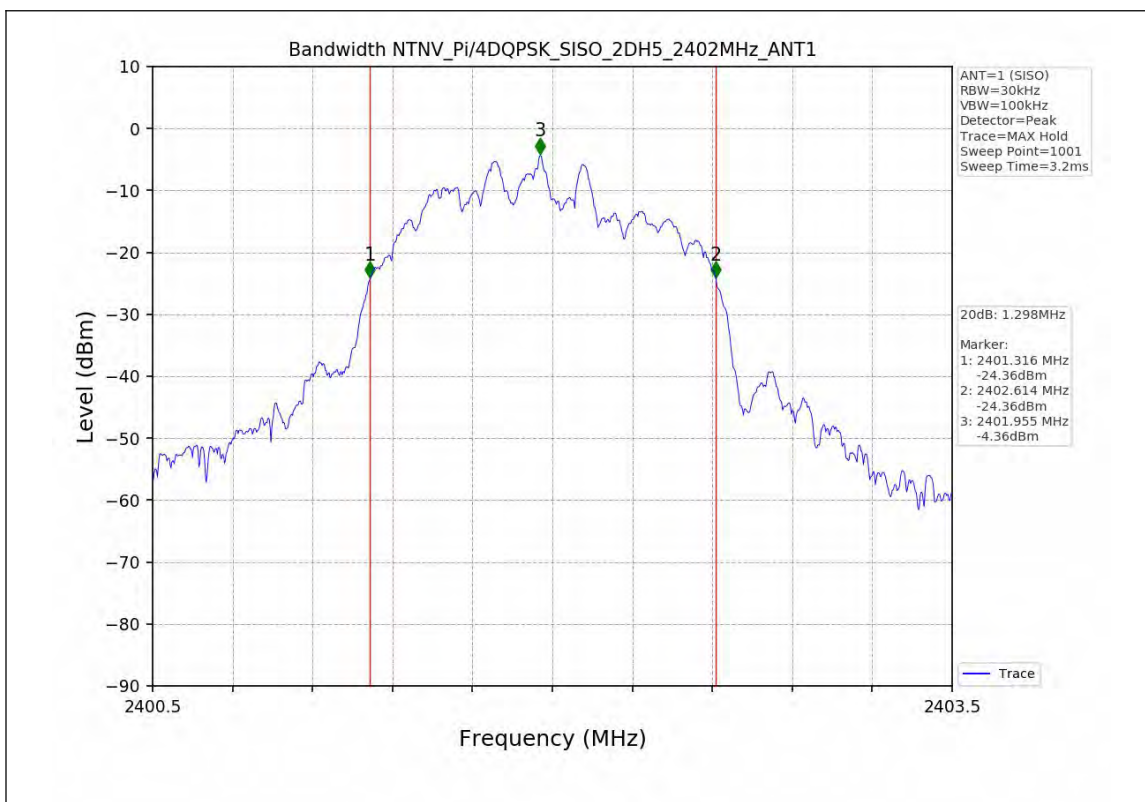
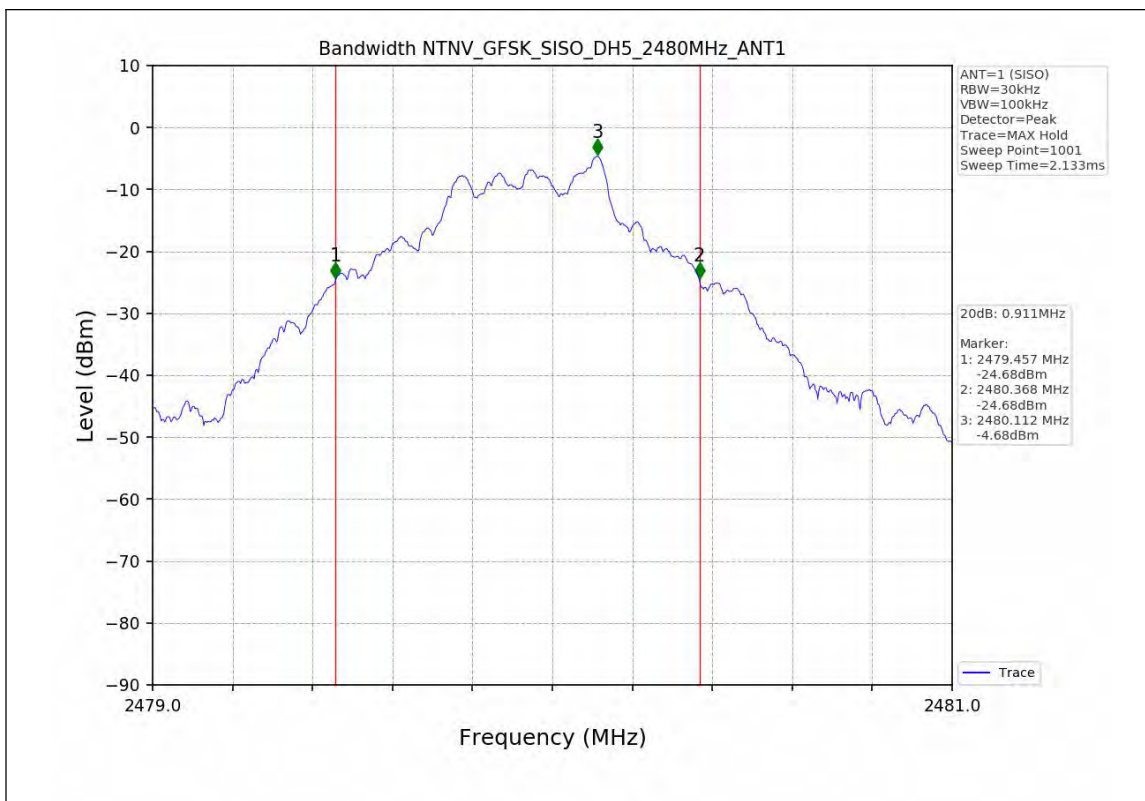
1.1 Test Result

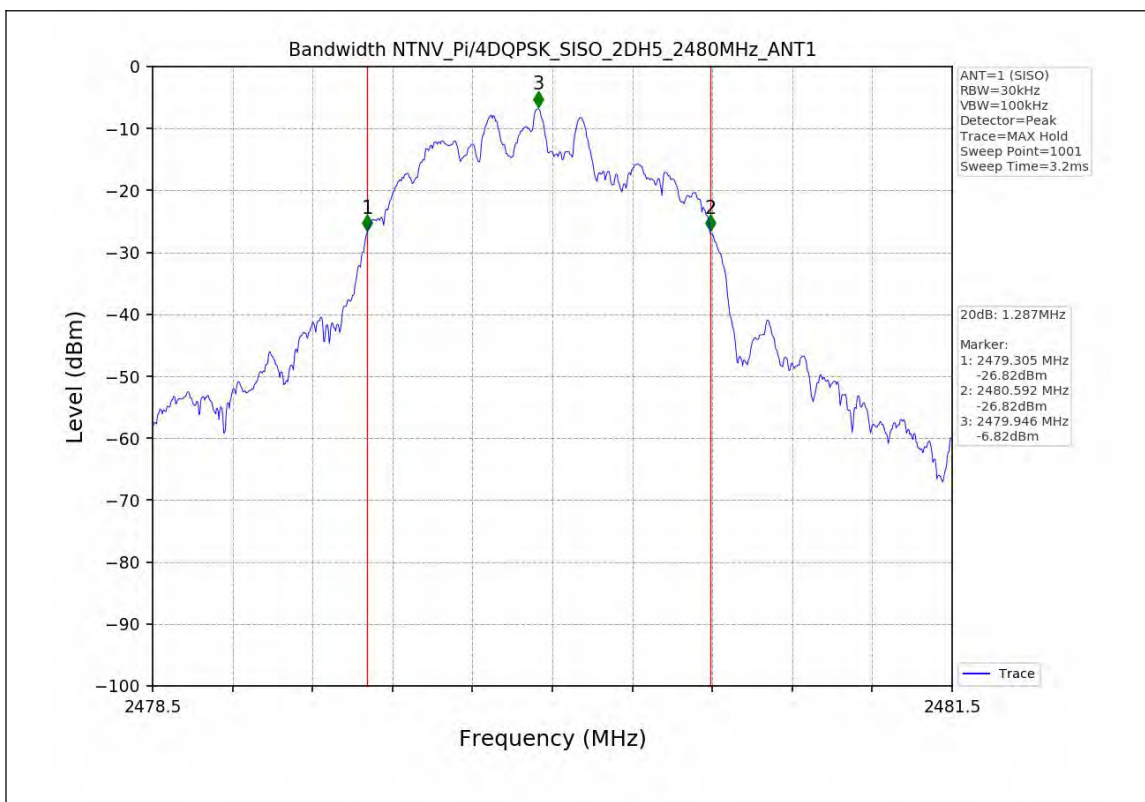
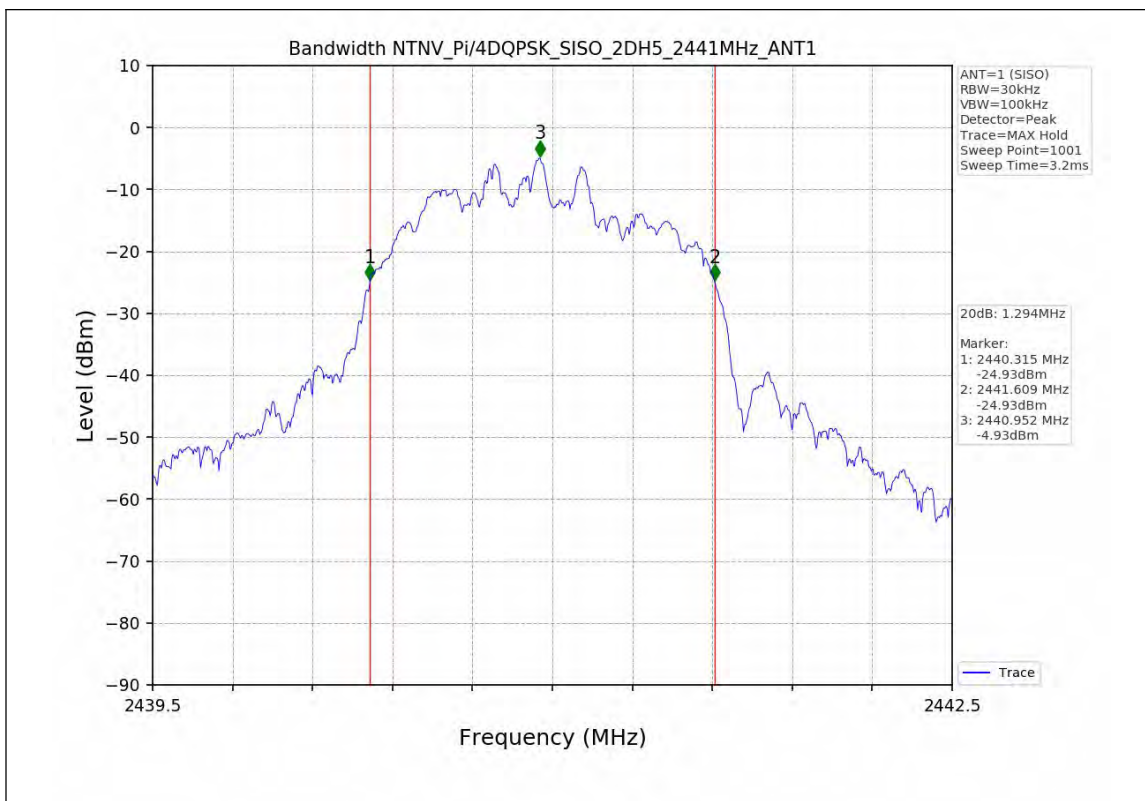
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.909	PASS
	2441	SISO	1	0.912	PASS
	2480	SISO	1	0.911	PASS
Pi/4DQPSK	2402	SISO	1	1.298	PASS
	2441	SISO	1	1.294	PASS
	2480	SISO	1	1.287	PASS
8DPSK	2402	SISO	1	1.280	PASS
	2441	SISO	1	1.281	PASS
	2480	SISO	1	1.280	PASS

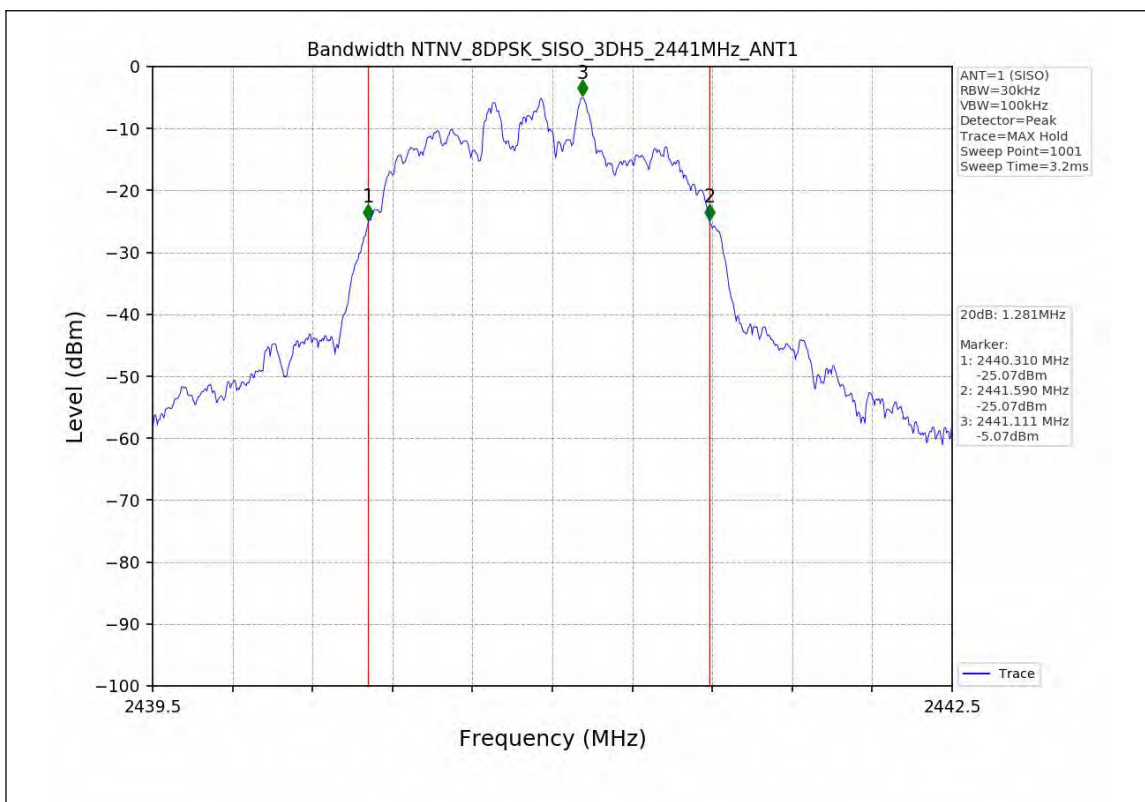
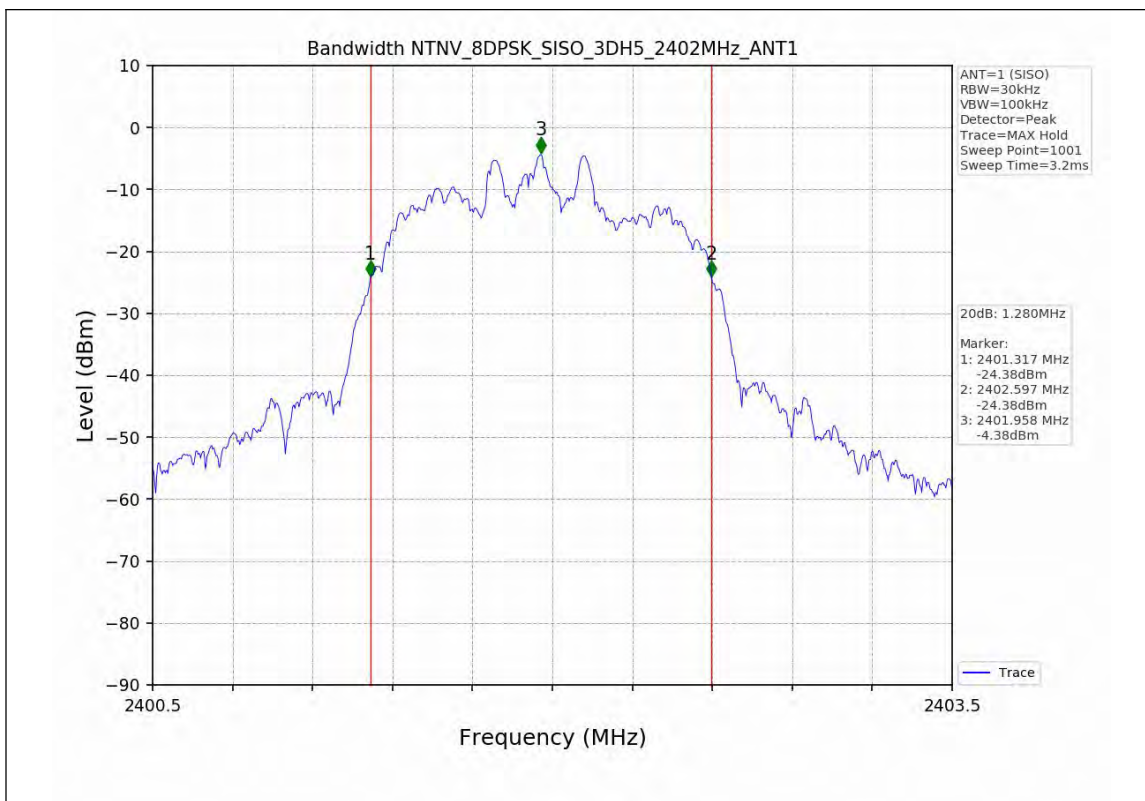
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.881	Only for Report Use
	2441	SISO	1	0.894	Only for Report Use
	2480	SISO	1	0.882	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.183	Only for Report Use
	2441	SISO	1	1.181	Only for Report Use
	2480	SISO	1	1.185	Only for Report Use
8DPSK	2402	SISO	1	1.169	Only for Report Use
	2441	SISO	1	1.181	Only for Report Use
	2480	SISO	1	1.180	Only for Report Use

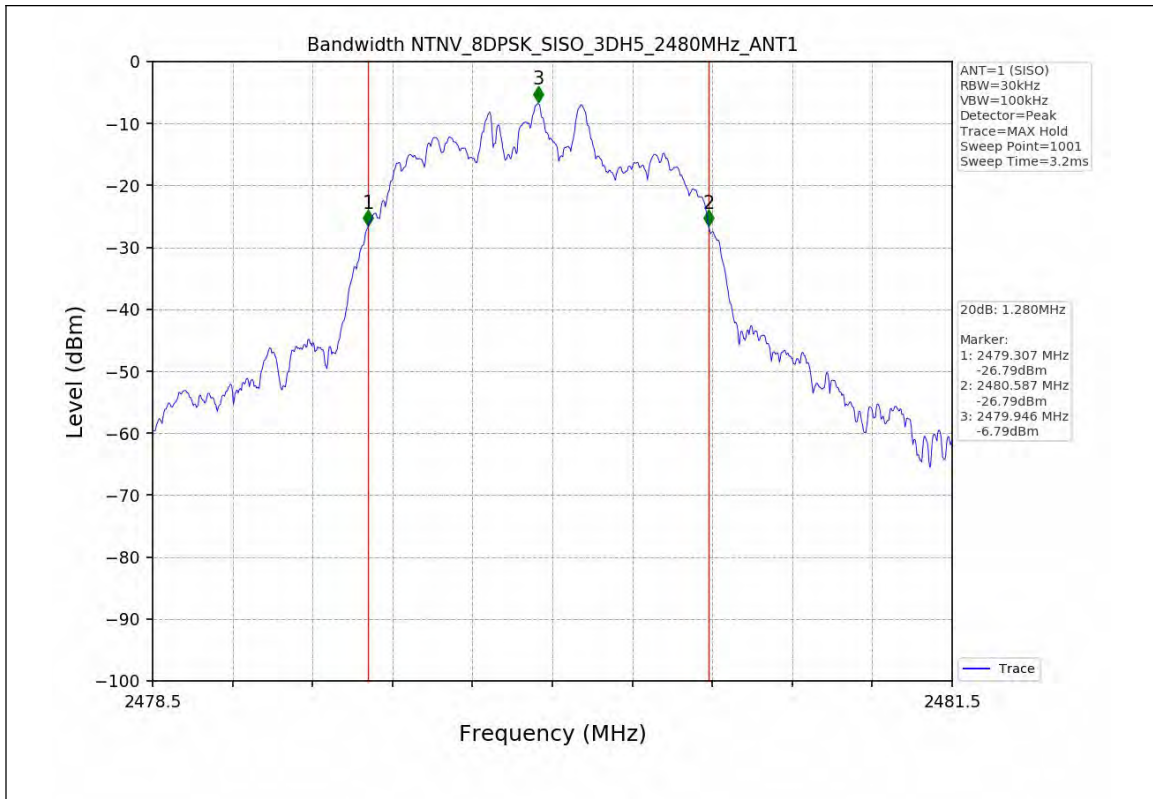
1.2 Test Graph - 20dB Bandwidth



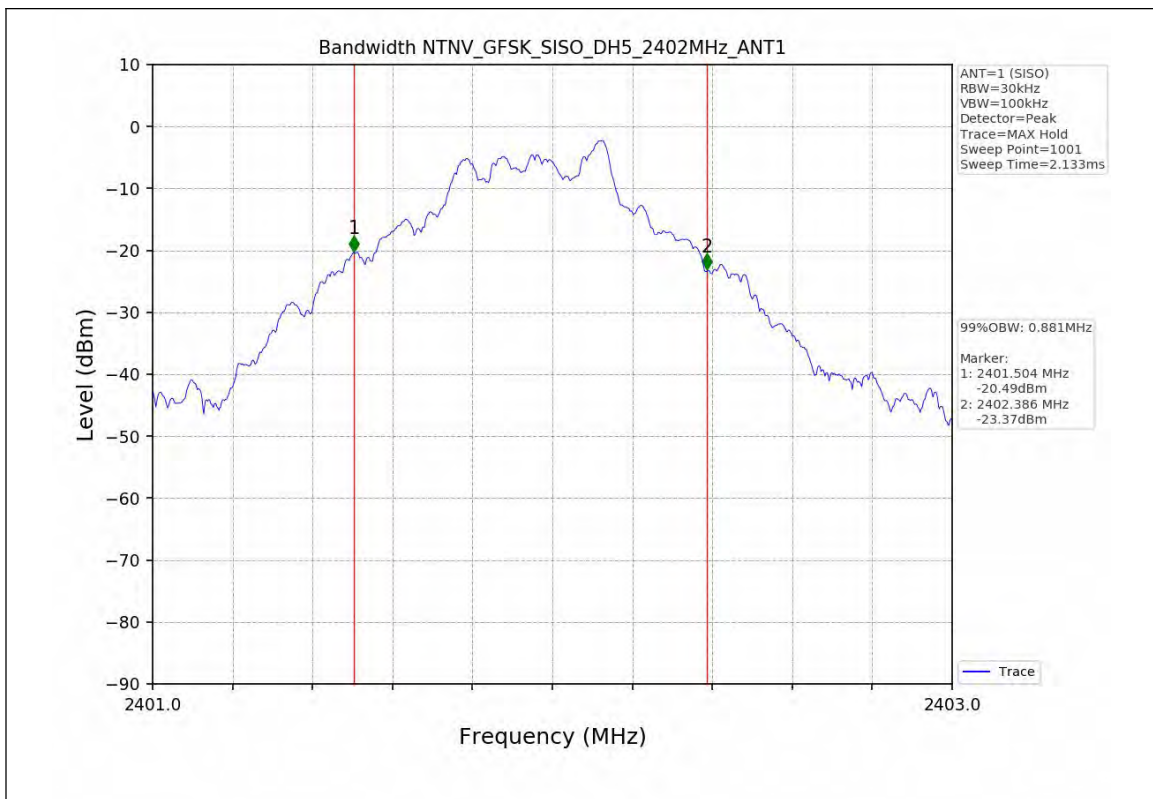


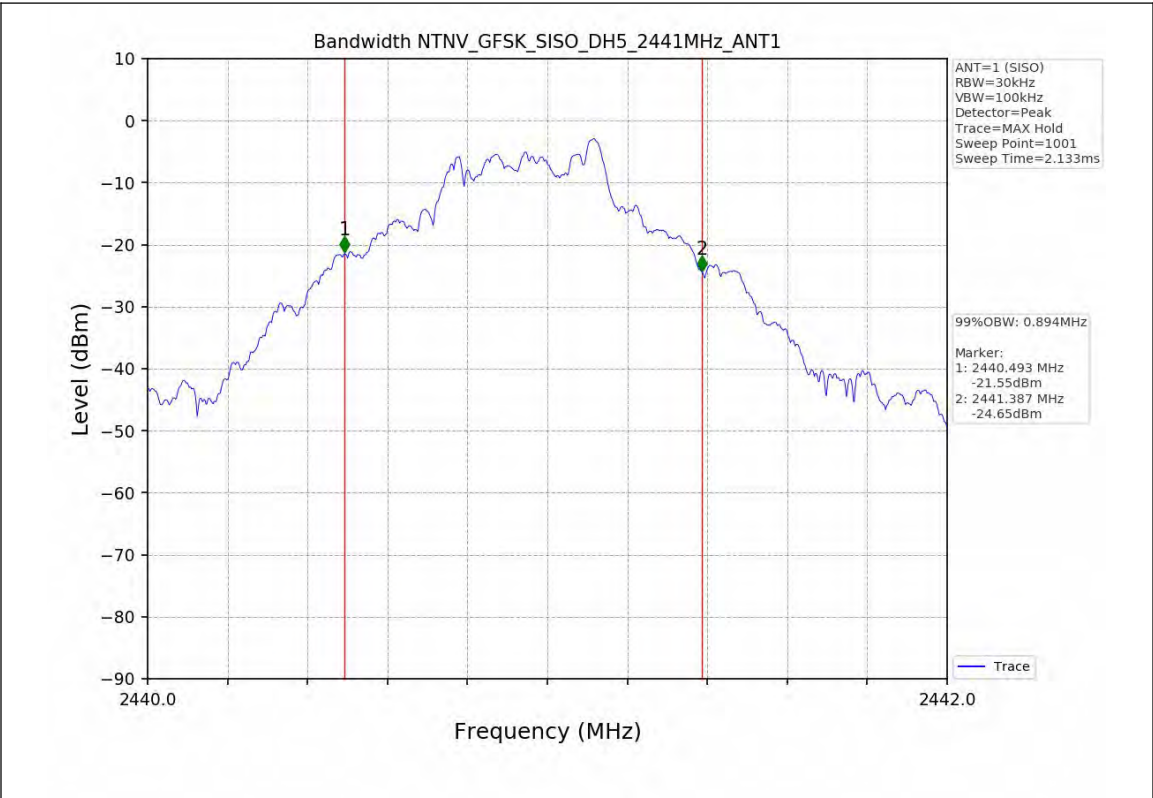


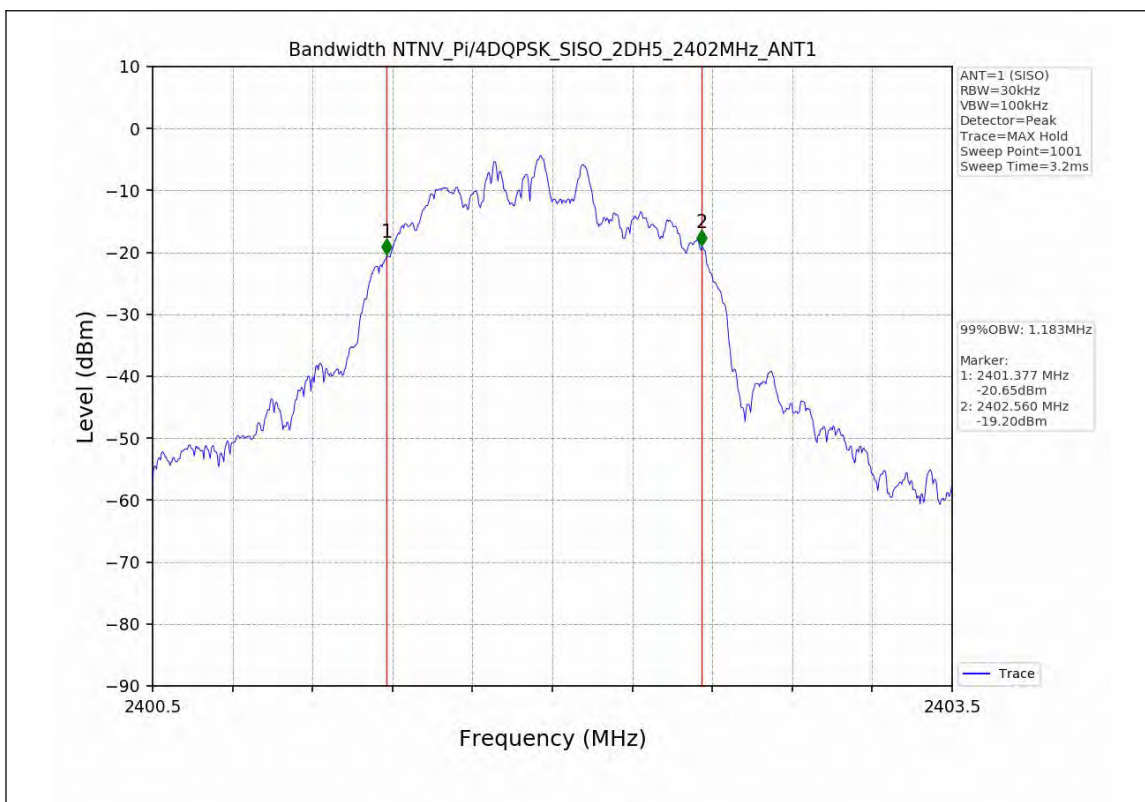
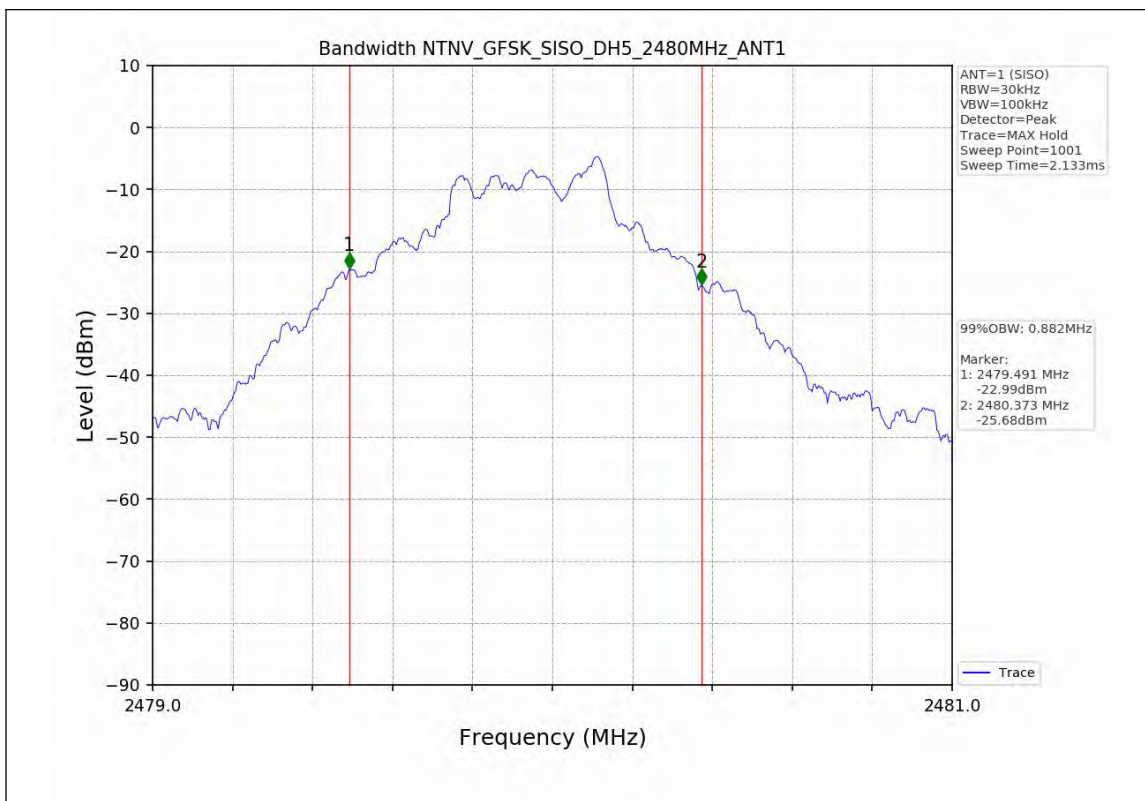


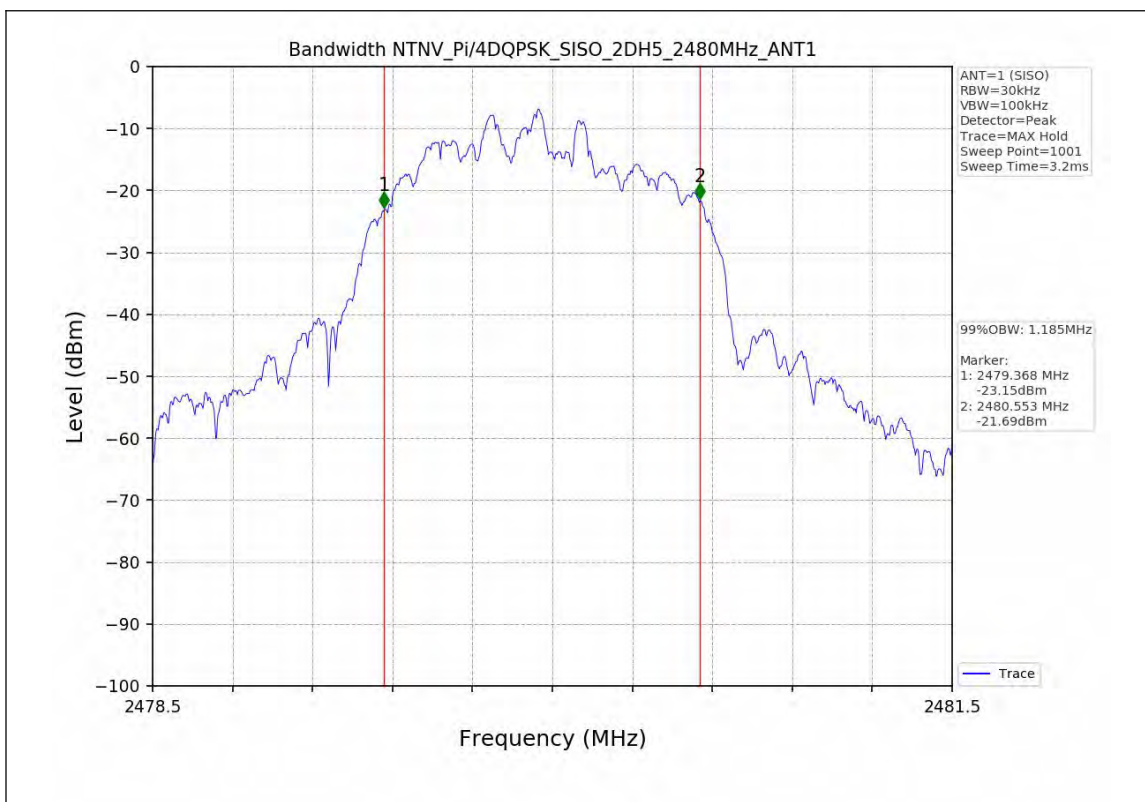
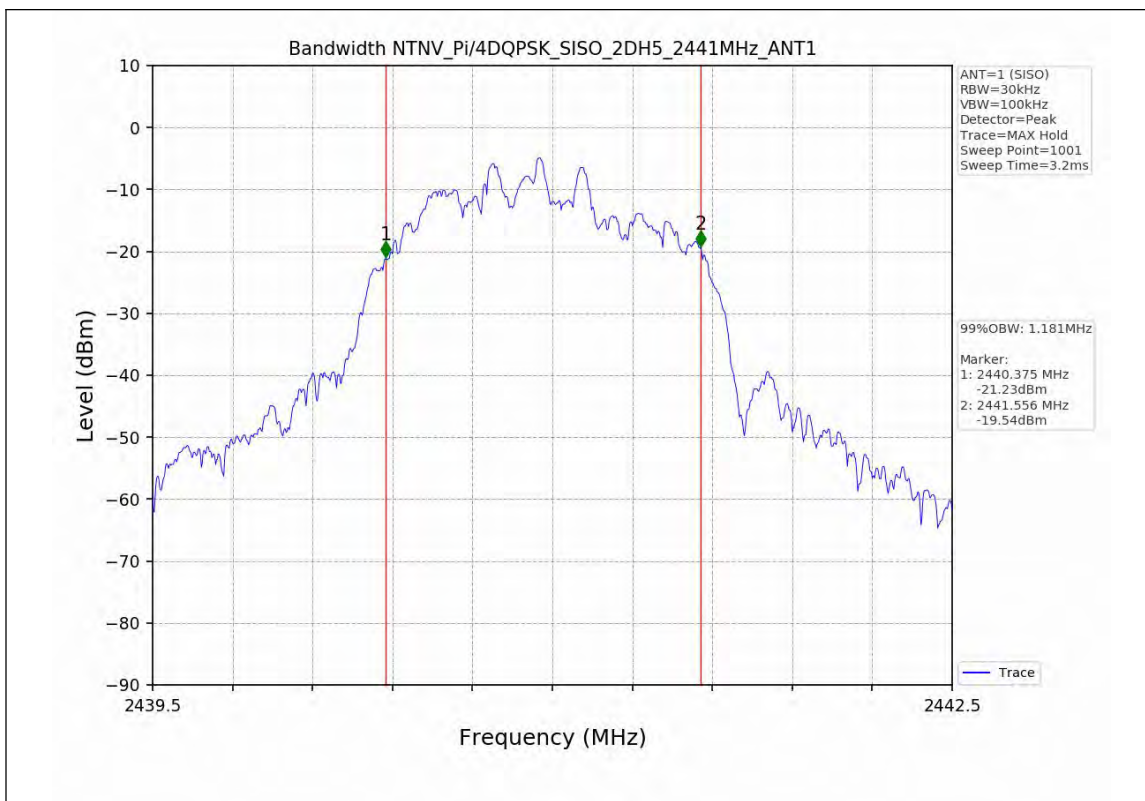


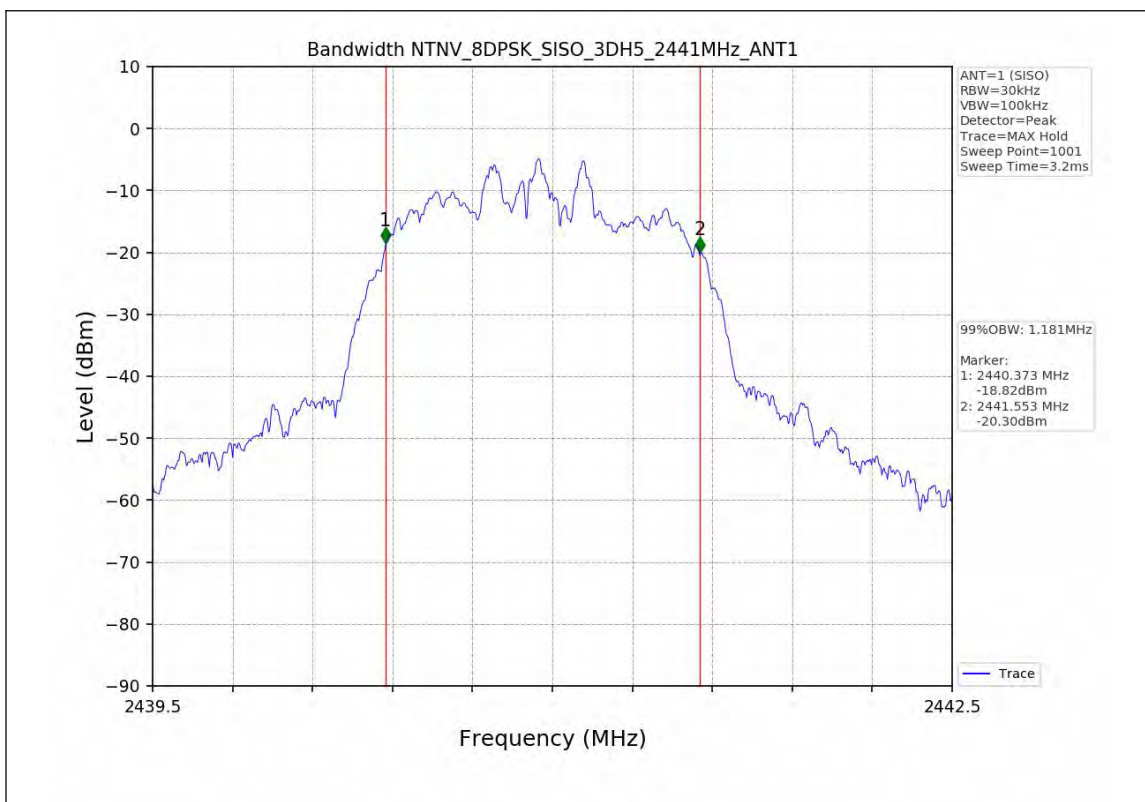
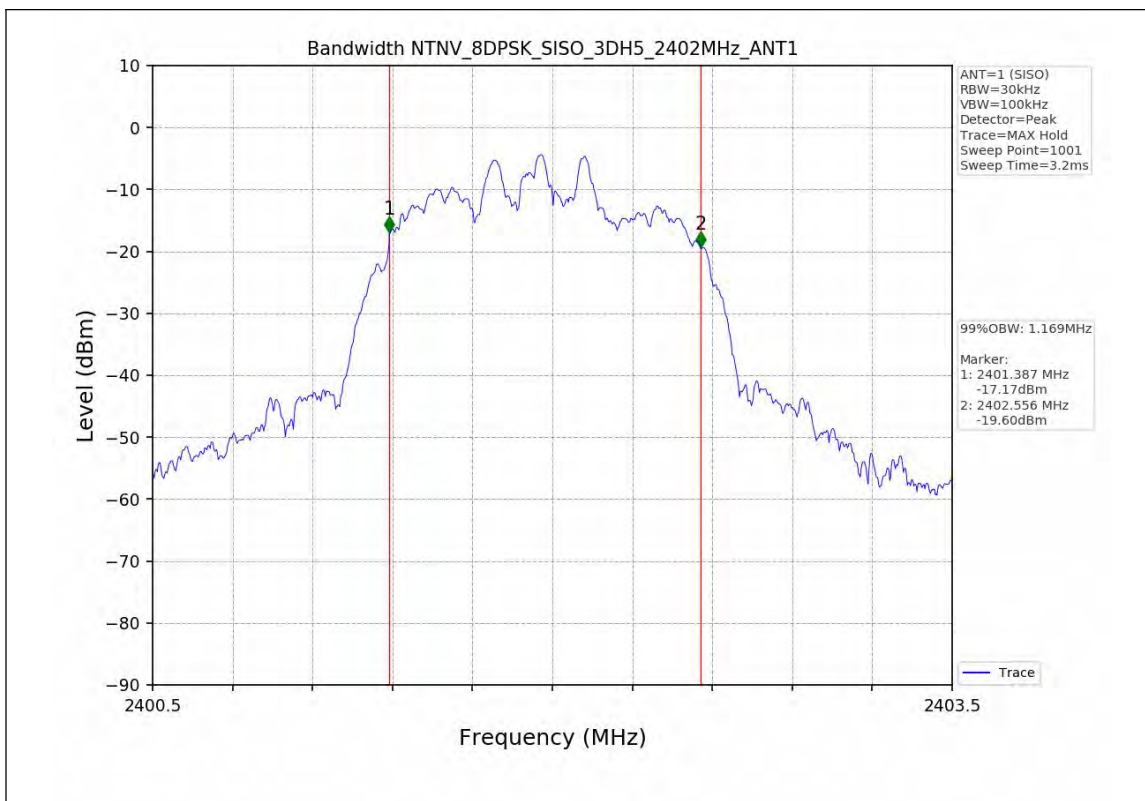
1.3 Test Graph - 99% Occupied Bandwidth

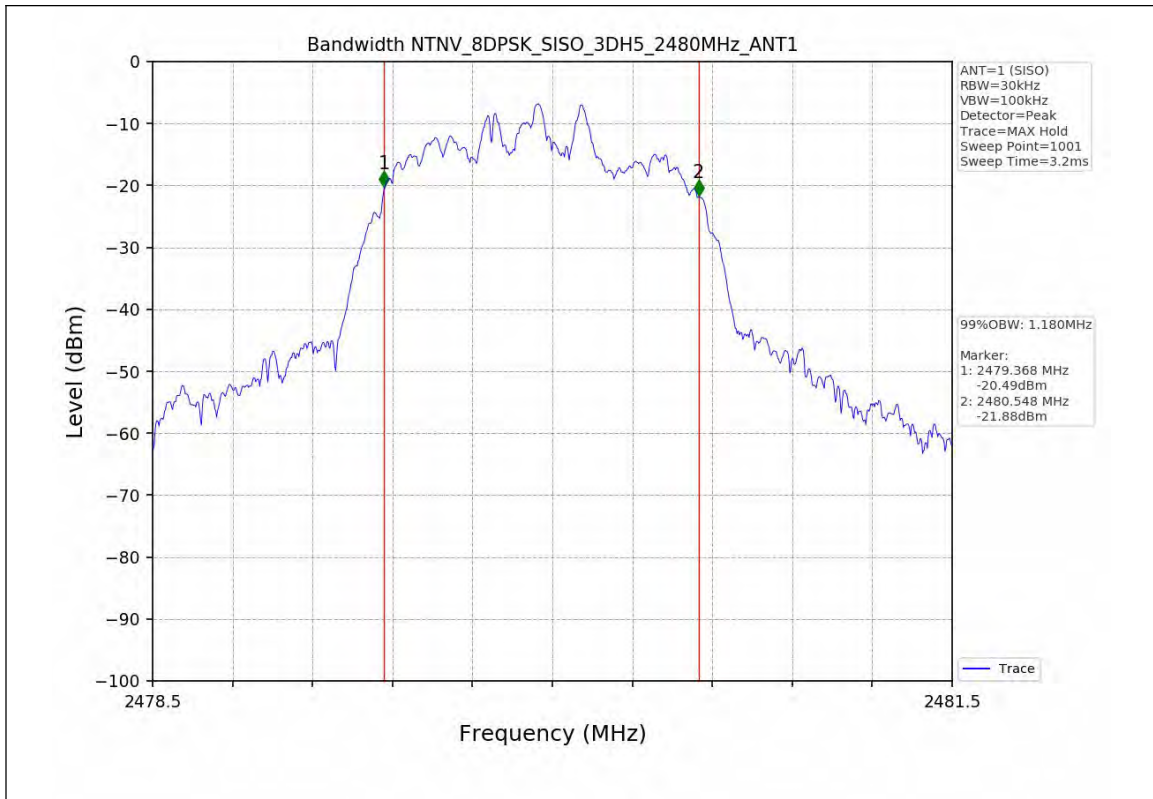










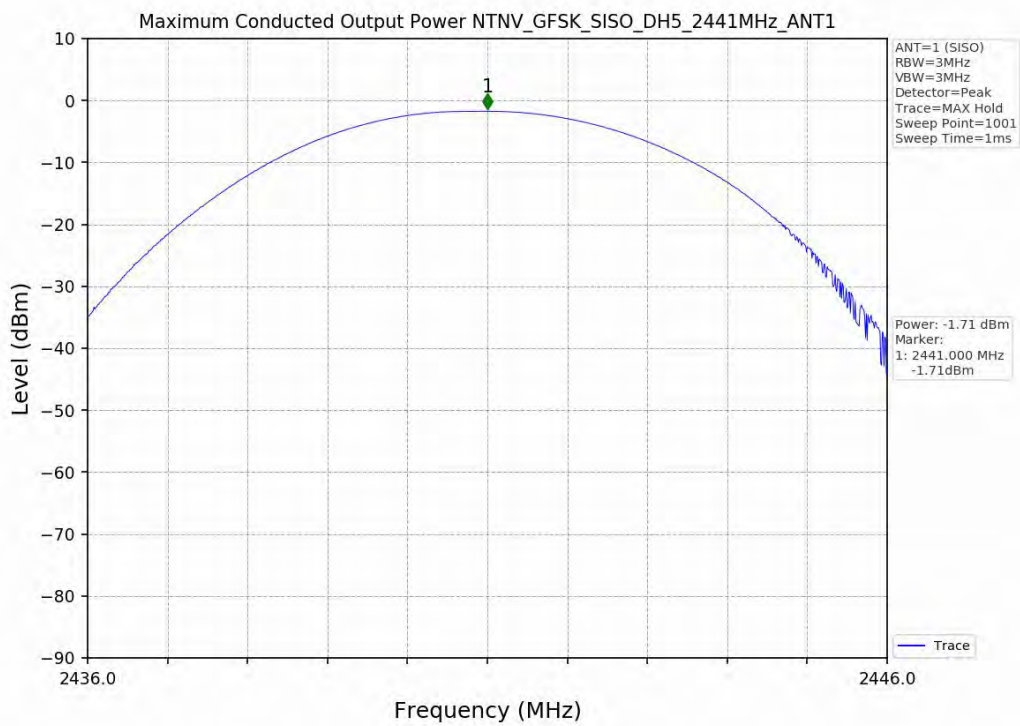
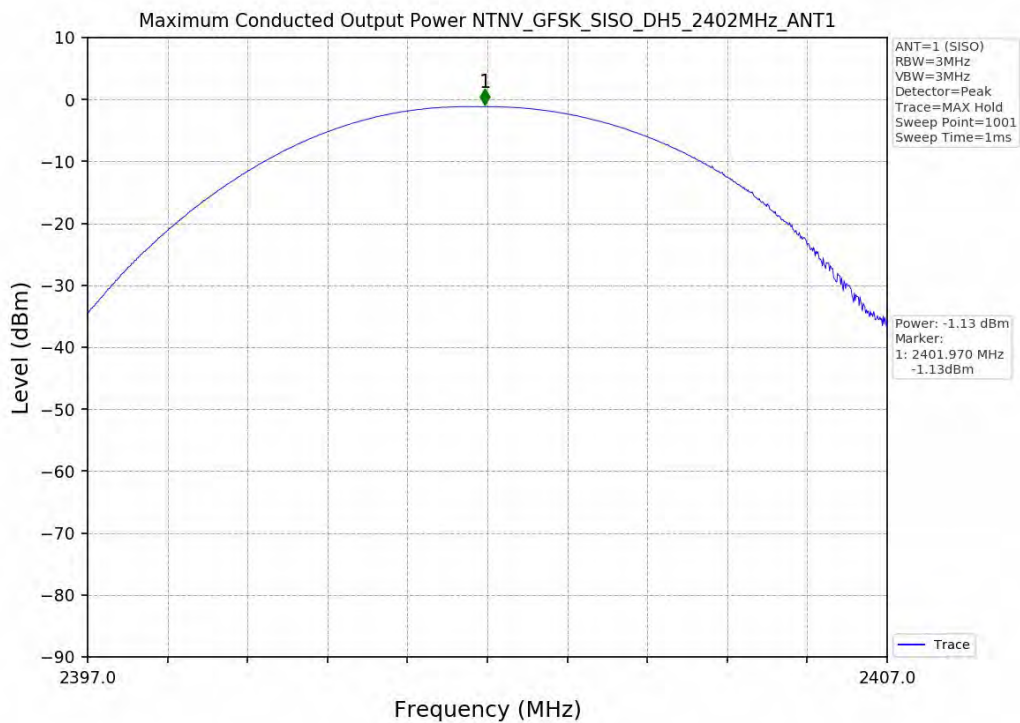


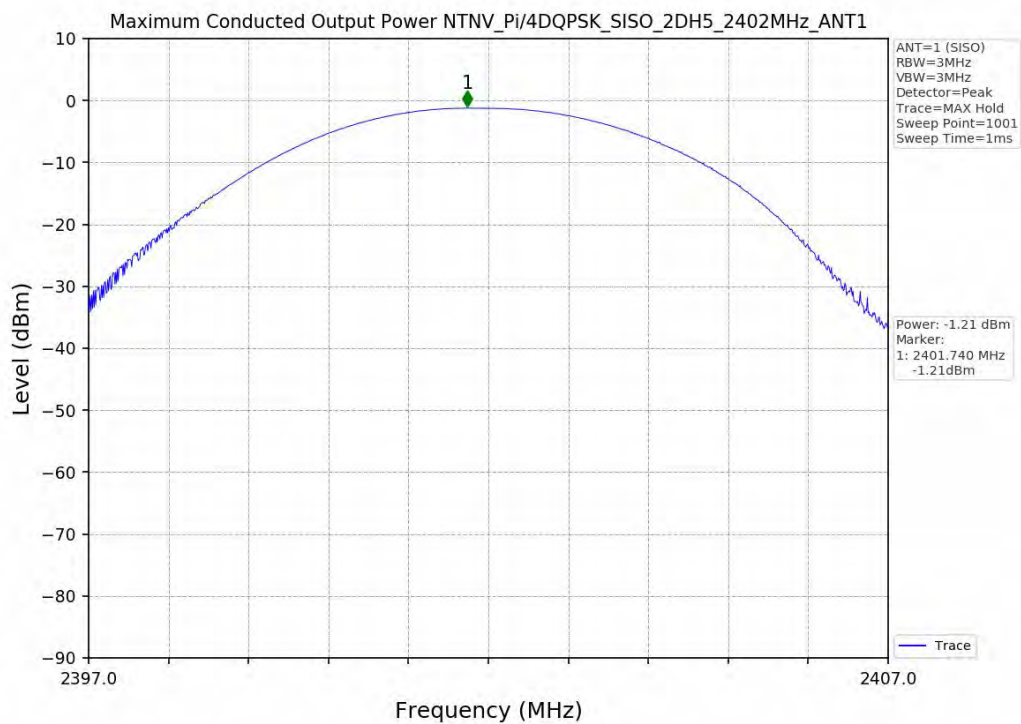
2. Maximum Conducted Output Power

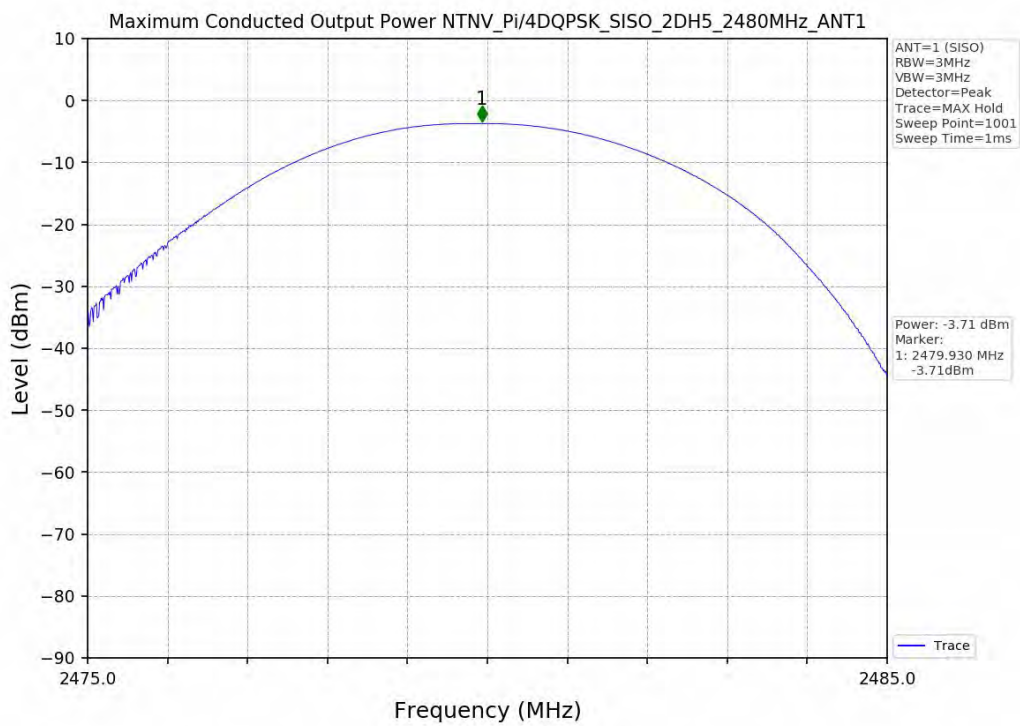
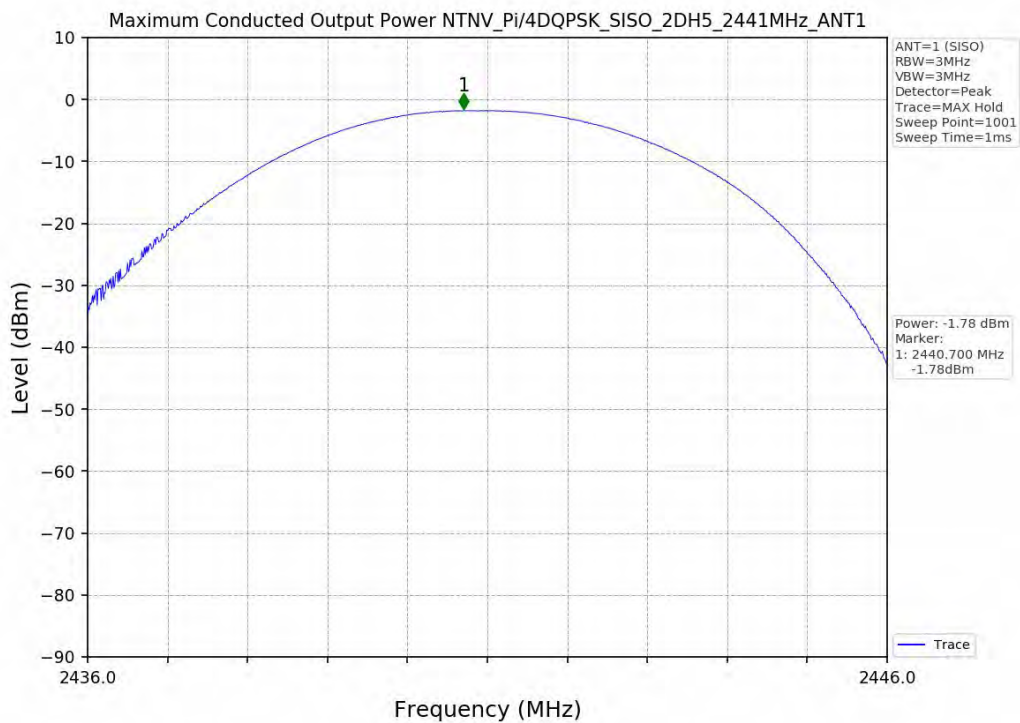
2.1 Test Result

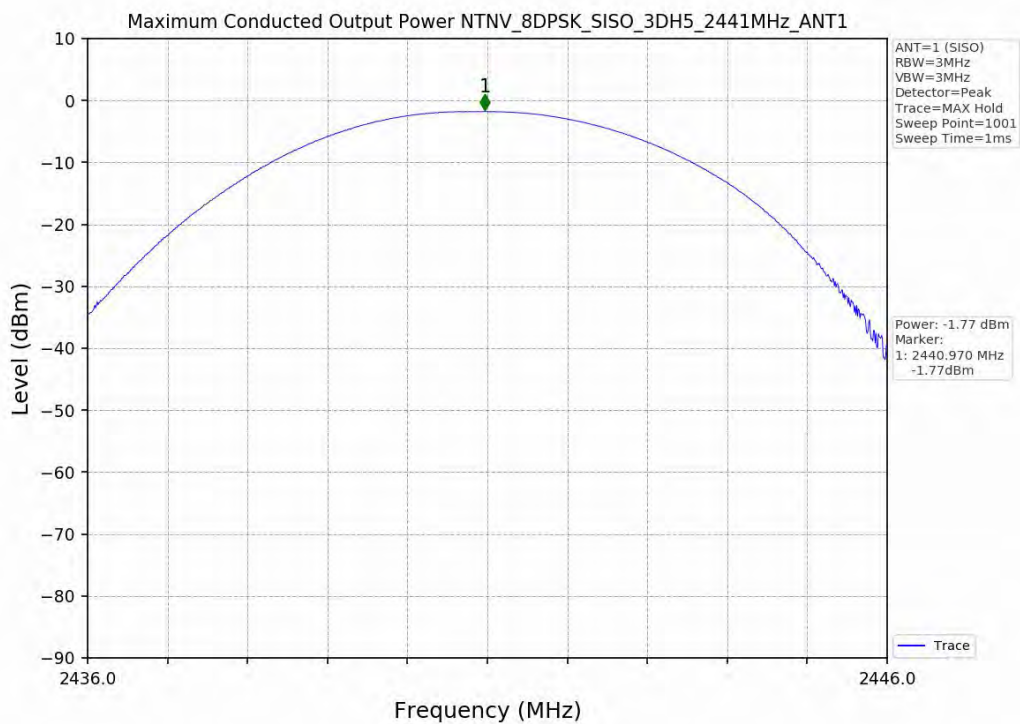
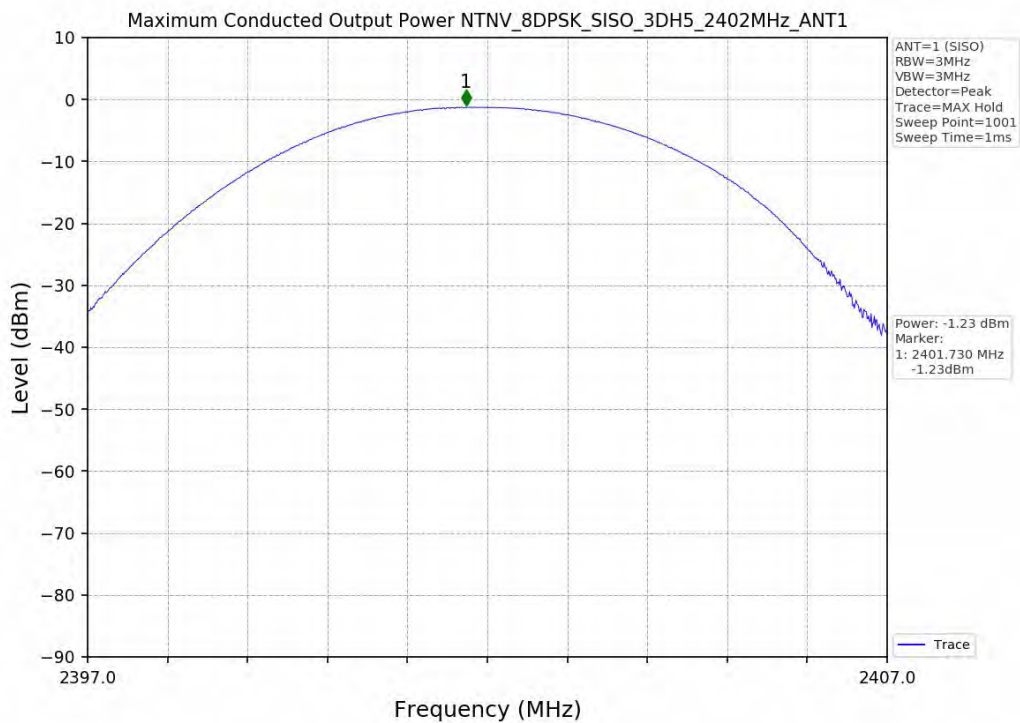
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	-1.13	30	PASS
	2441	SISO	-1.71	30	PASS
	2480	SISO	-3.65	30	PASS
Pi/4DQPSK	2402	SISO	-1.21	20.97	PASS
	2441	SISO	-1.78	20.97	PASS
	2480	SISO	-3.71	20.97	PASS
8DPSK	2402	SISO	-1.23	20.97	PASS
	2441	SISO	-1.77	20.97	PASS
	2480	SISO	-3.69	20.97	PASS

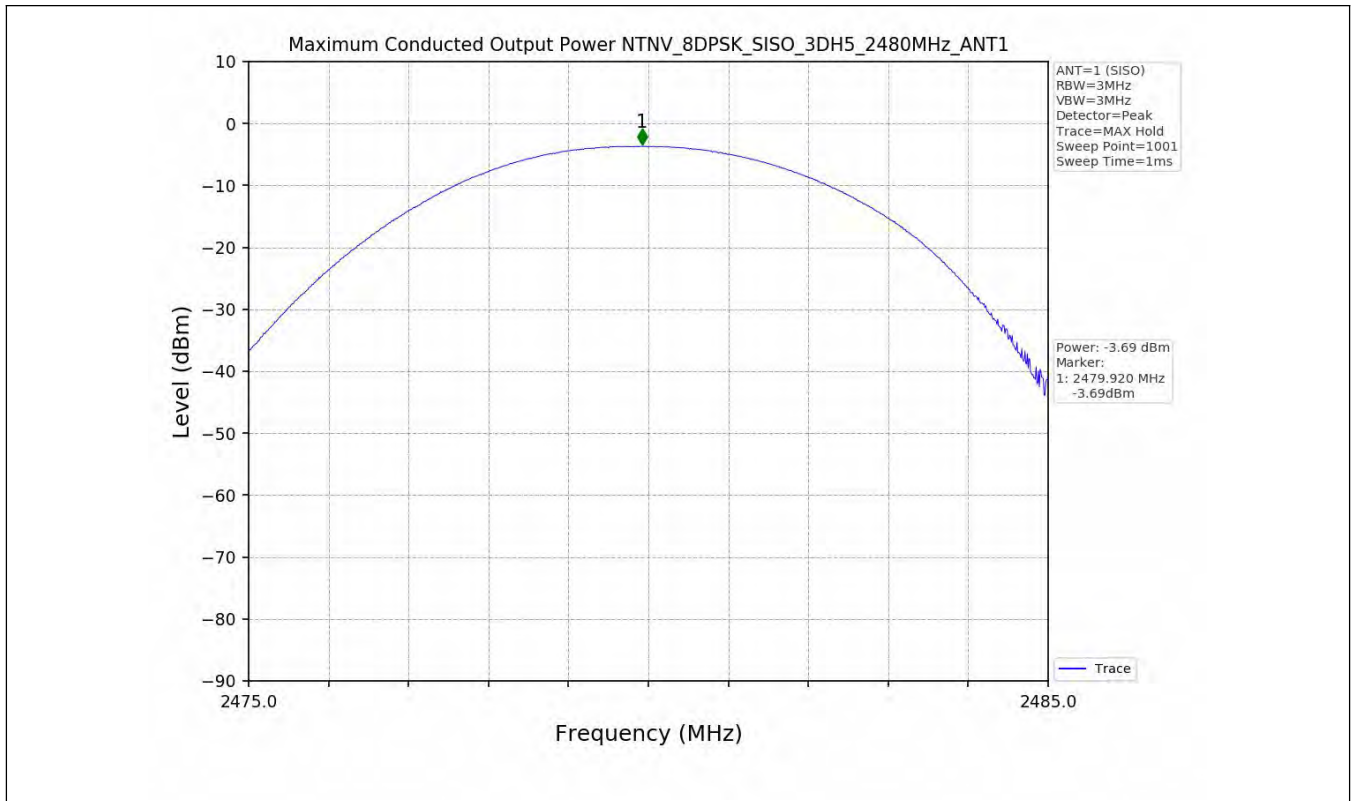
2.2 Test Graph









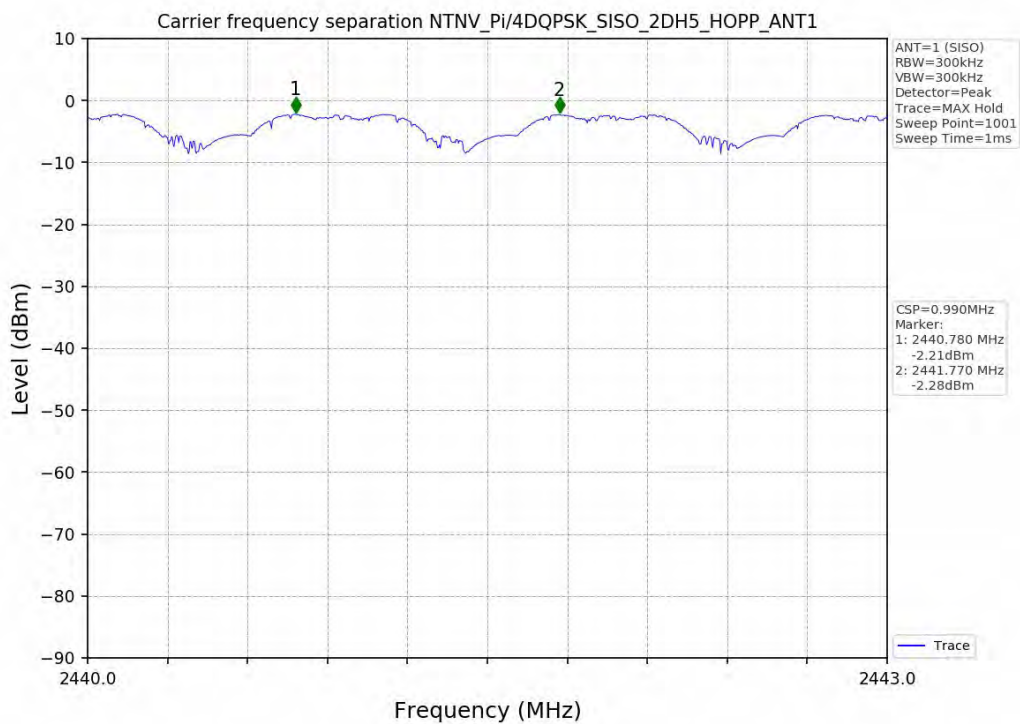
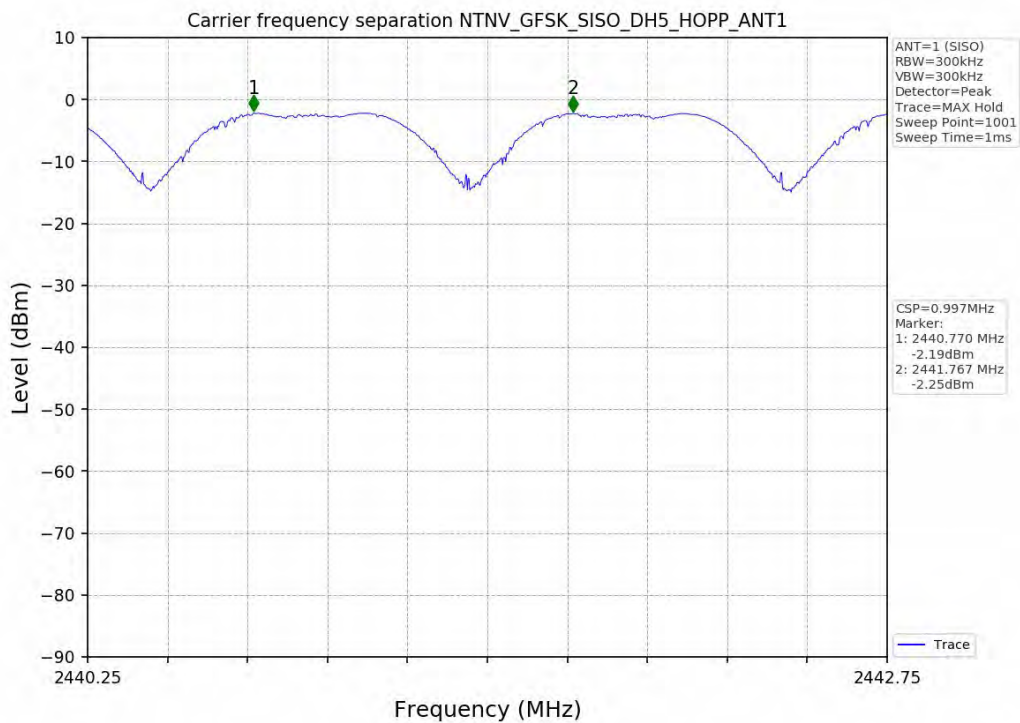


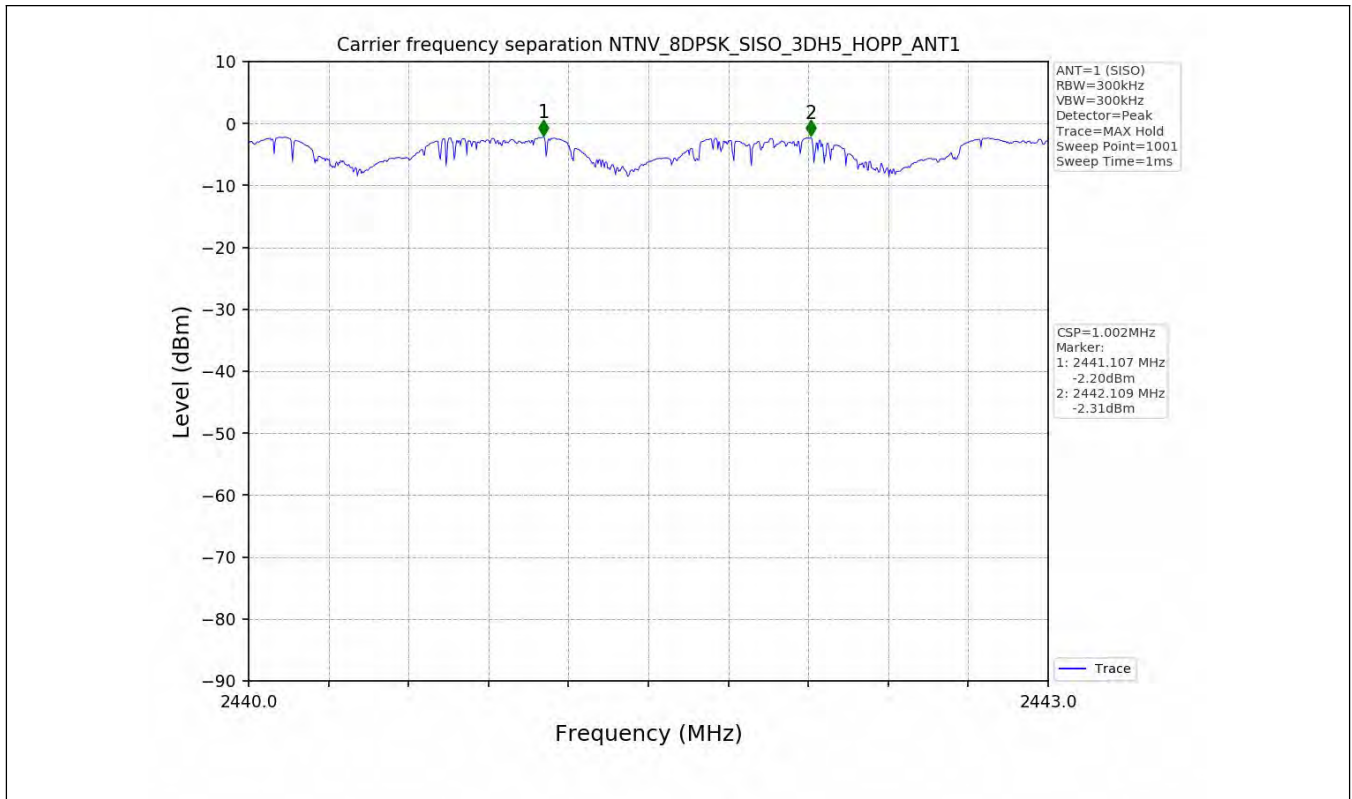
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.997	0.912	≥ 0.912	PASS
Pi/4DQPSK	SISO	1	0.990	1.298	≥ 0.865	PASS
8DPSK	SISO	1	1.002	1.281	≥ 0.854	PASS

3.2 Test Graph



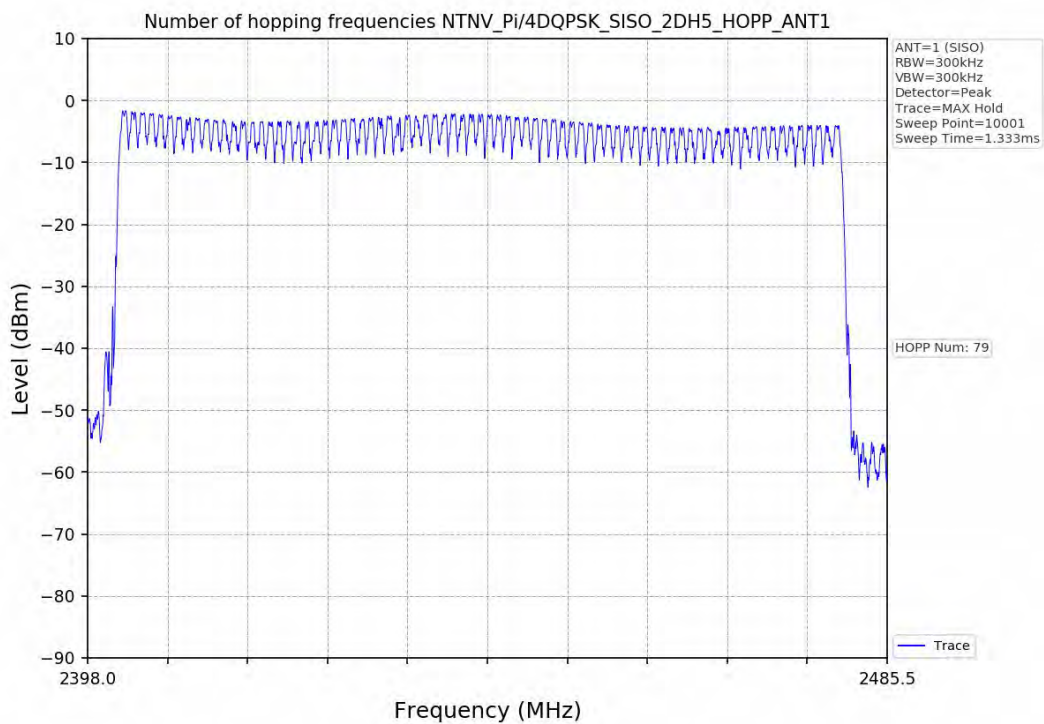
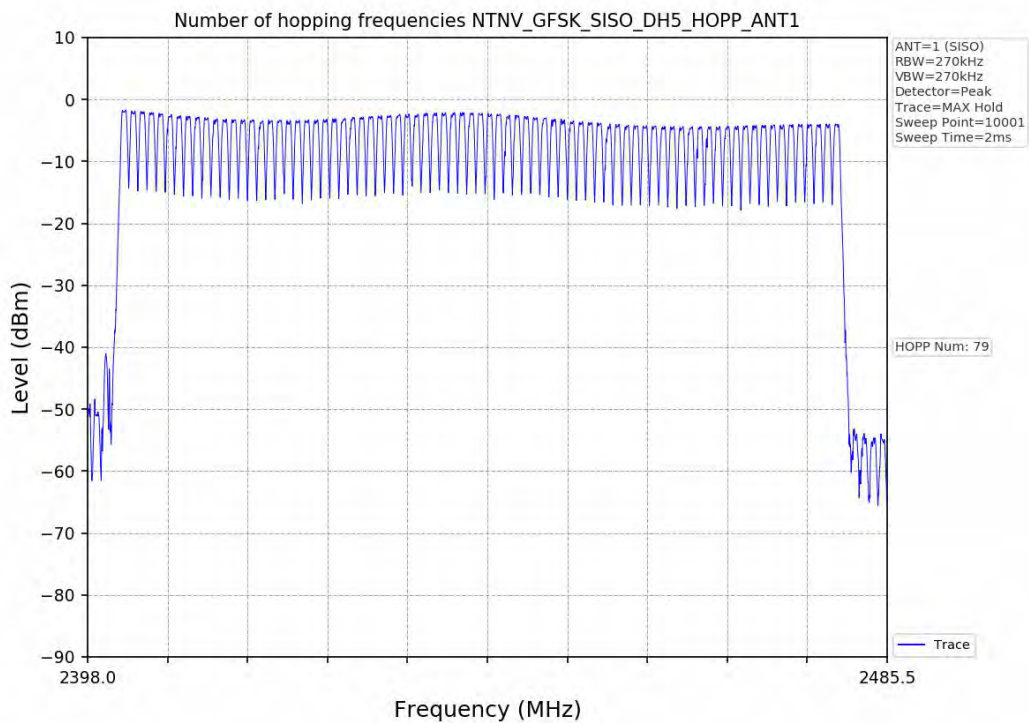


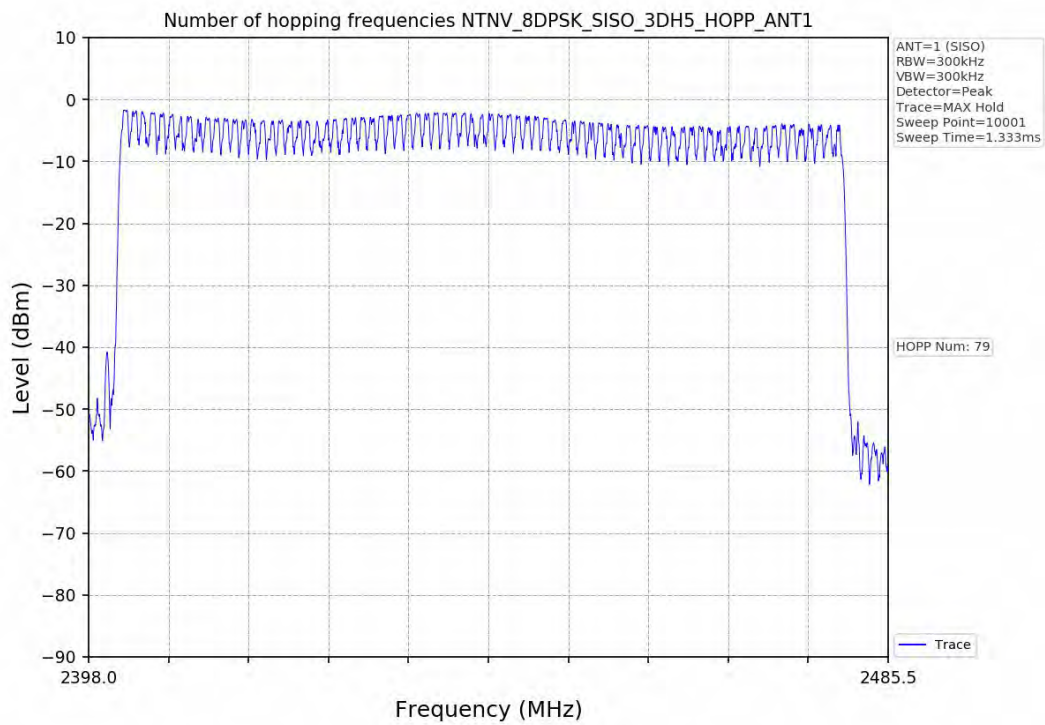
4. Number of hopping frequencies

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



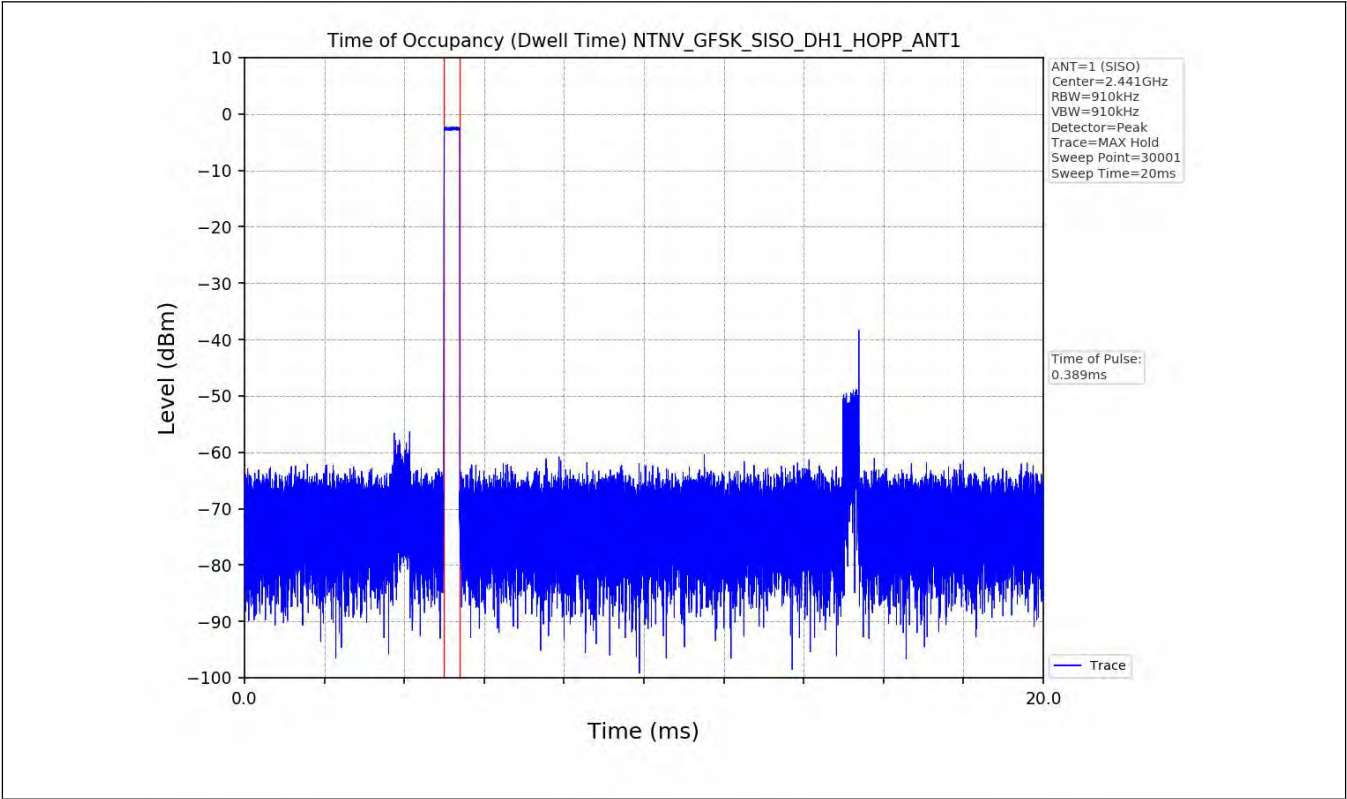


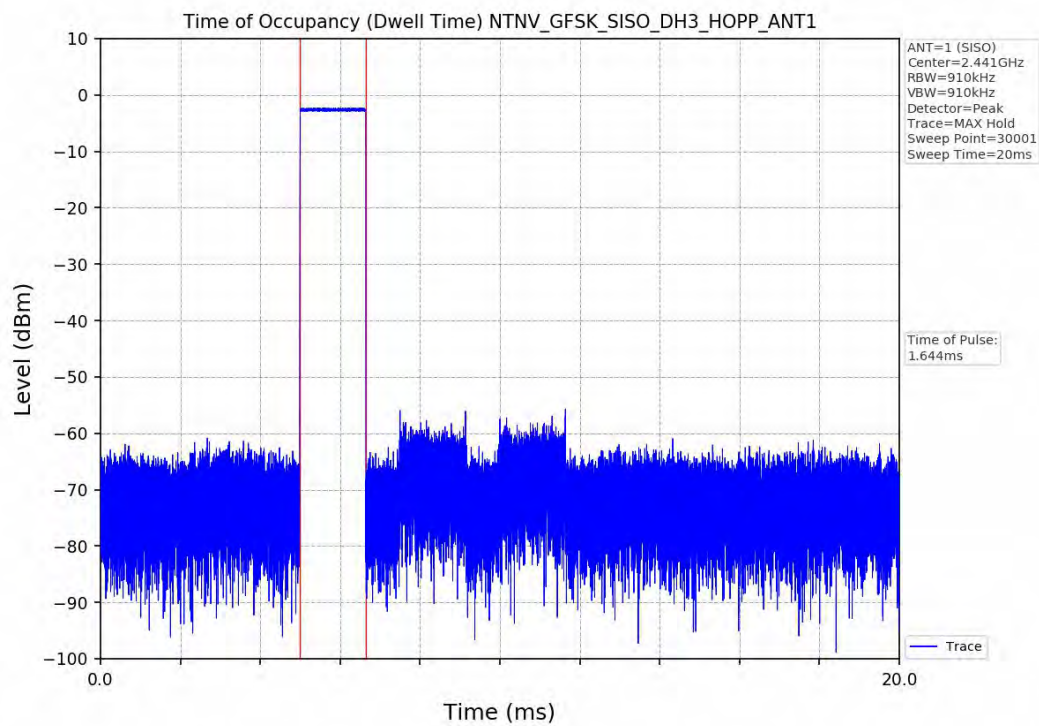
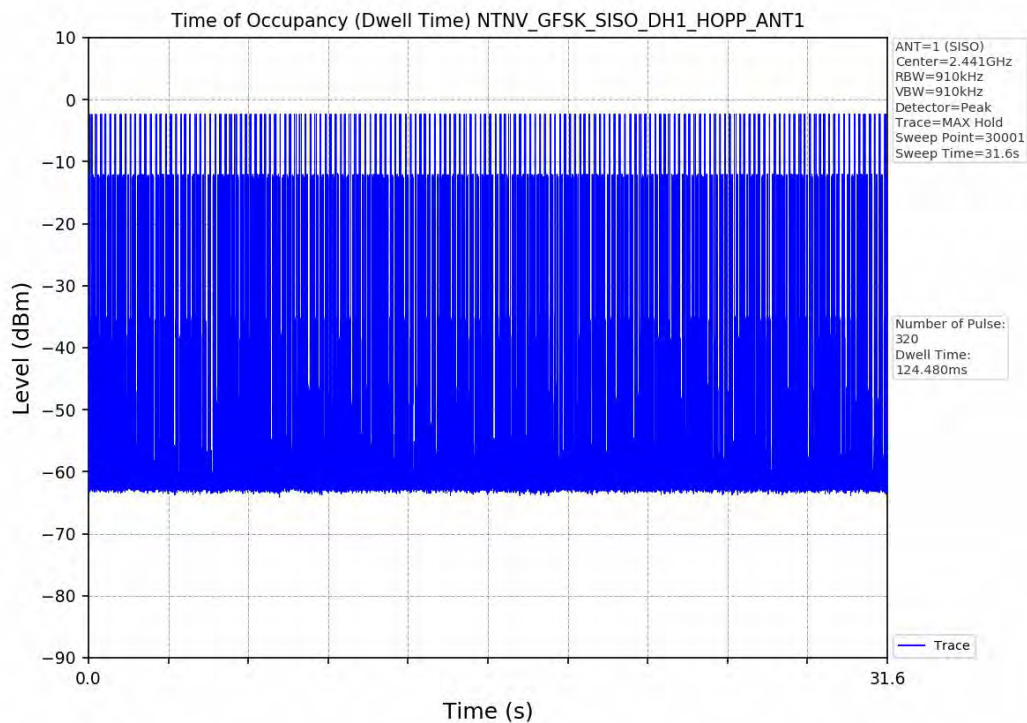
5. Time of Occupancy (Dwell Time)

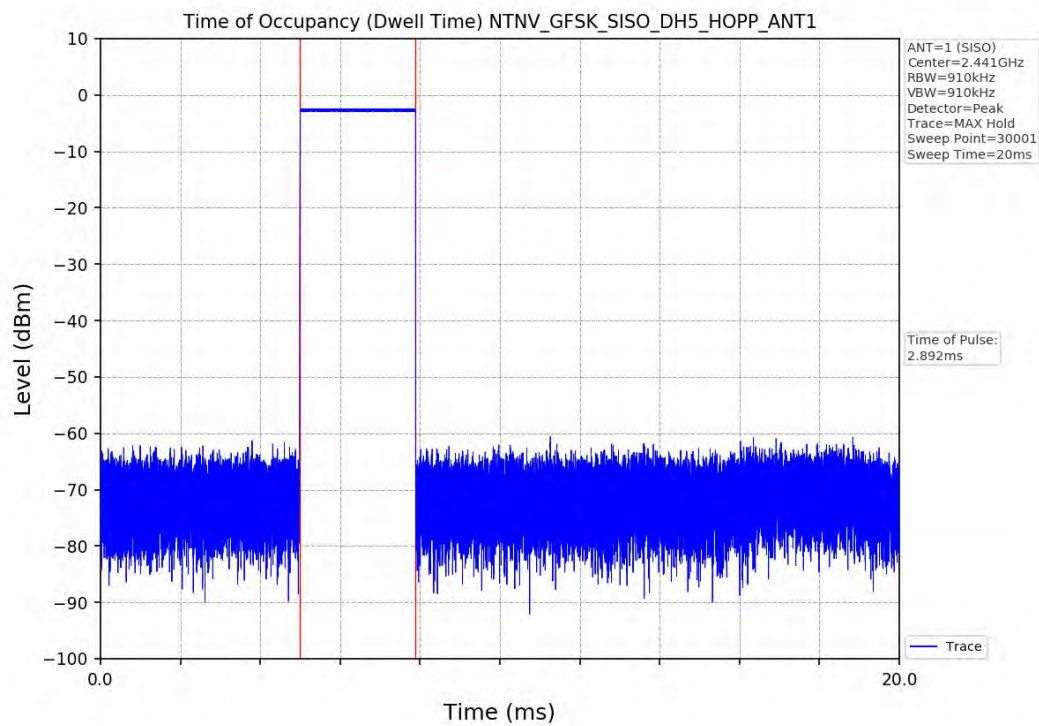
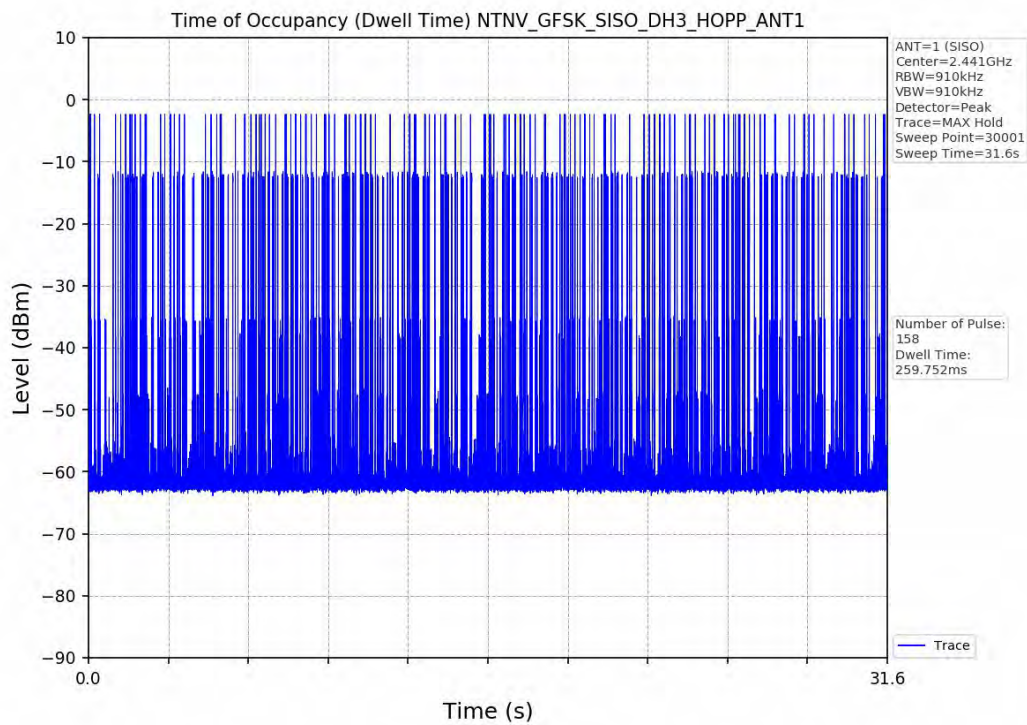
5.1 Test Result

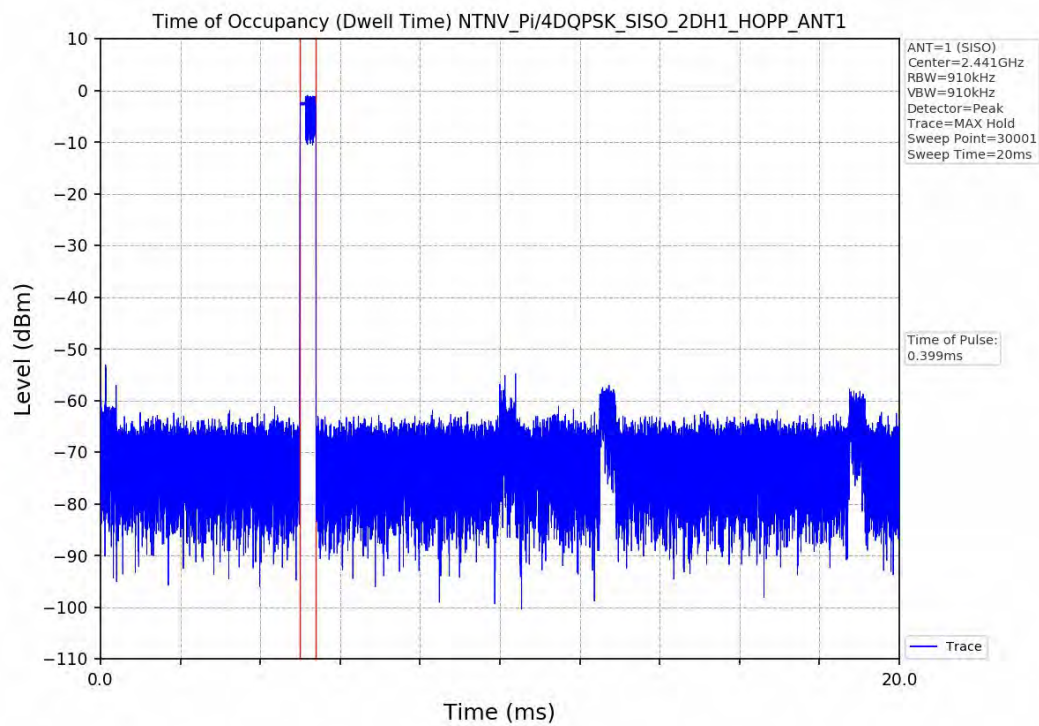
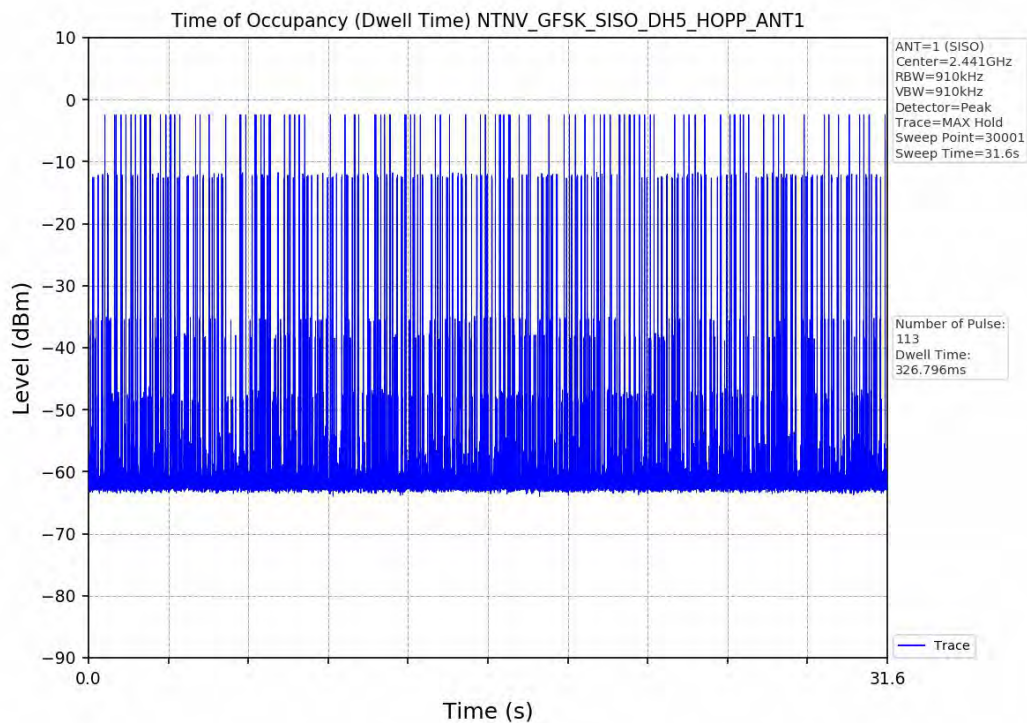
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.389	31.6	320	124.480	≤400	PASS
	DH3	SISO	1	1.644	31.6	158	259.752	≤400	PASS
	DH5	SISO	1	2.892	31.6	113	326.796	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.399	31.6	320	127.680	≤400	PASS
	2DH3	SISO	1	1.659	31.6	159	263.781	≤400	PASS
	2DH5	SISO	1	2.907	31.6	109	316.863	≤400	PASS
8DPSK	3DH1	SISO	1	0.405	31.6	320	129.600	≤400	PASS
	3DH3	SISO	1	1.659	31.6	156	258.804	≤400	PASS
	3DH5	SISO	1	2.912	31.6	120	349.440	≤400	PASS

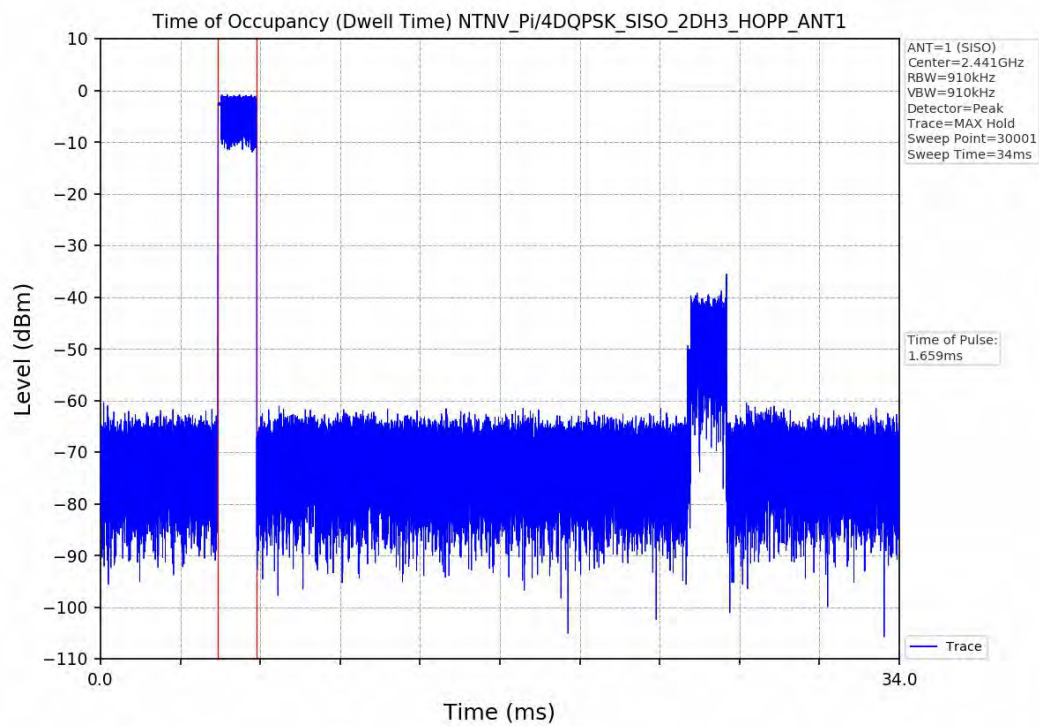
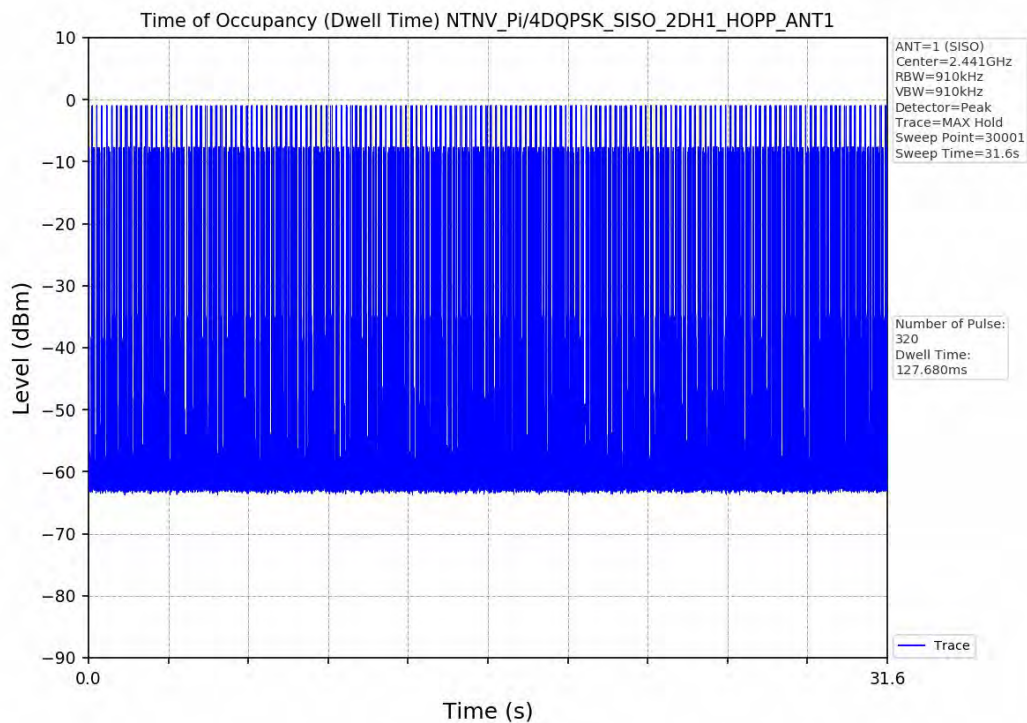
5.2 Test Graph

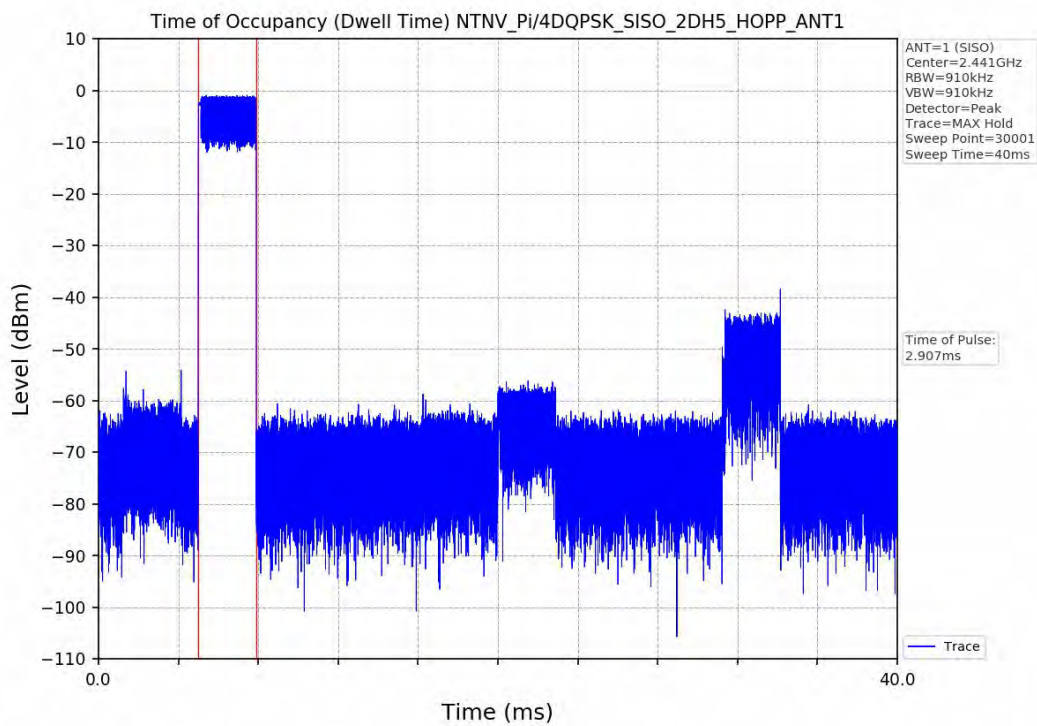
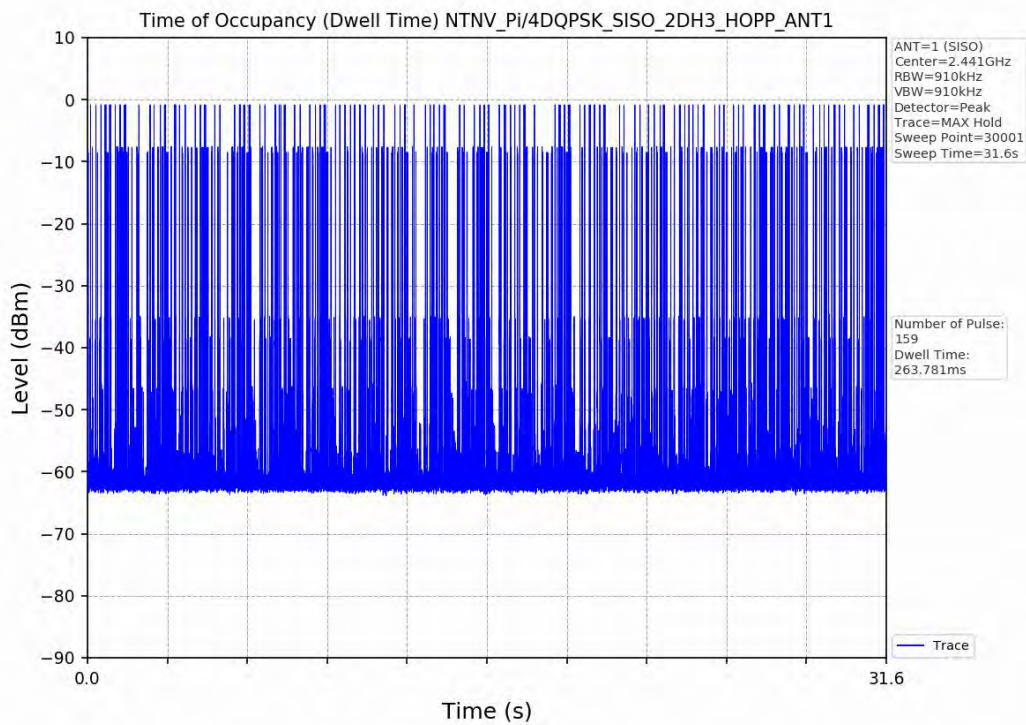


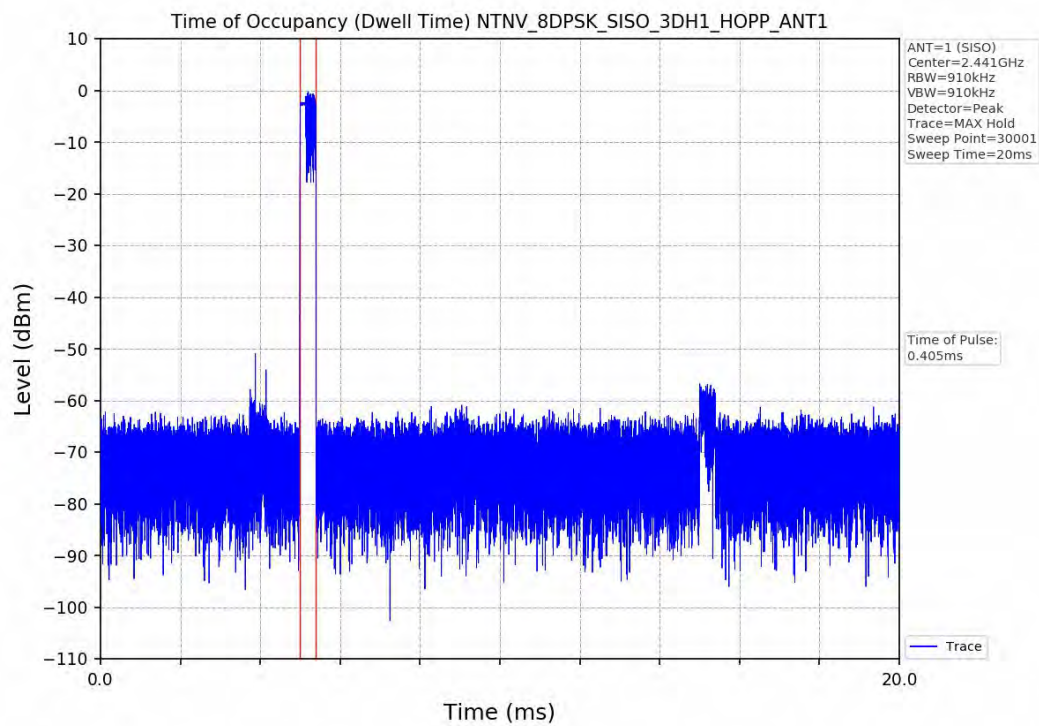
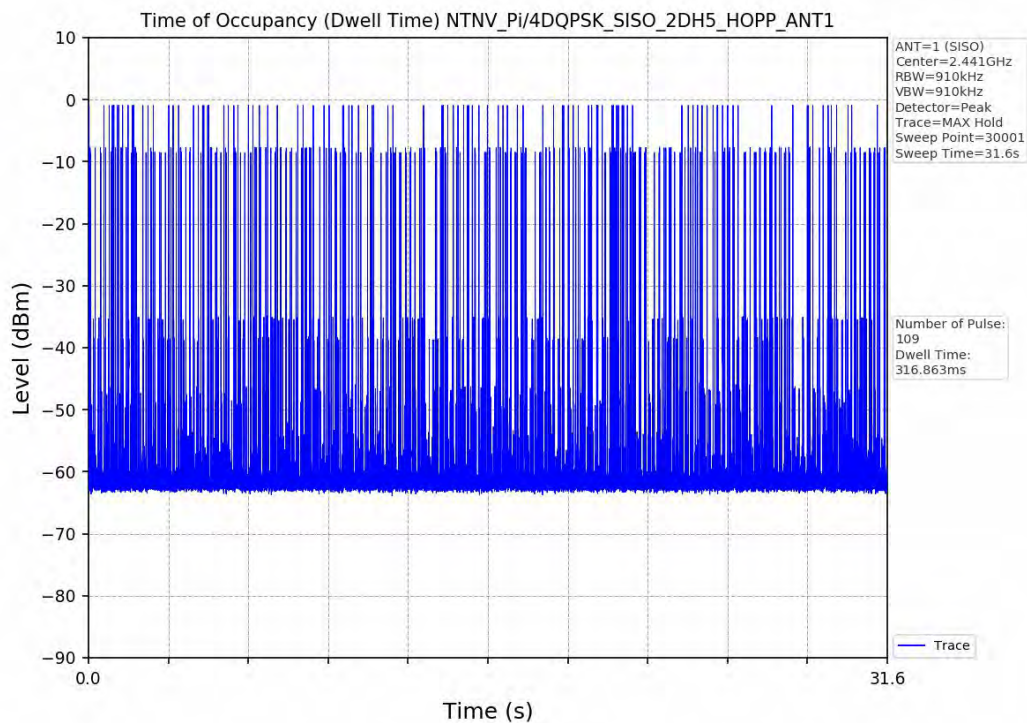


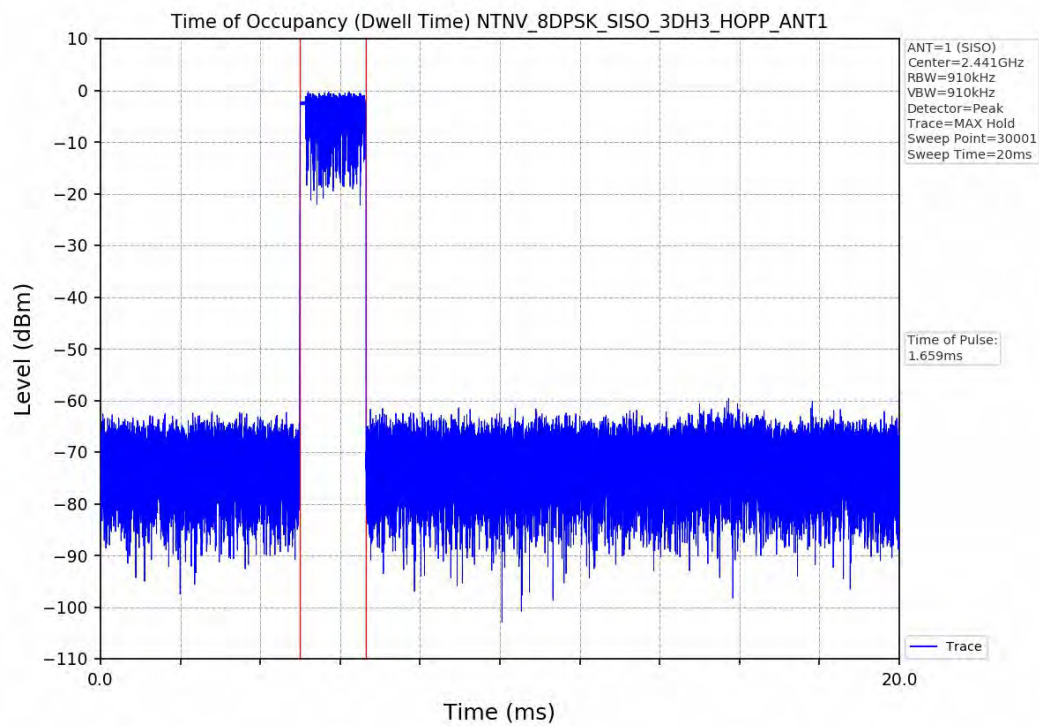
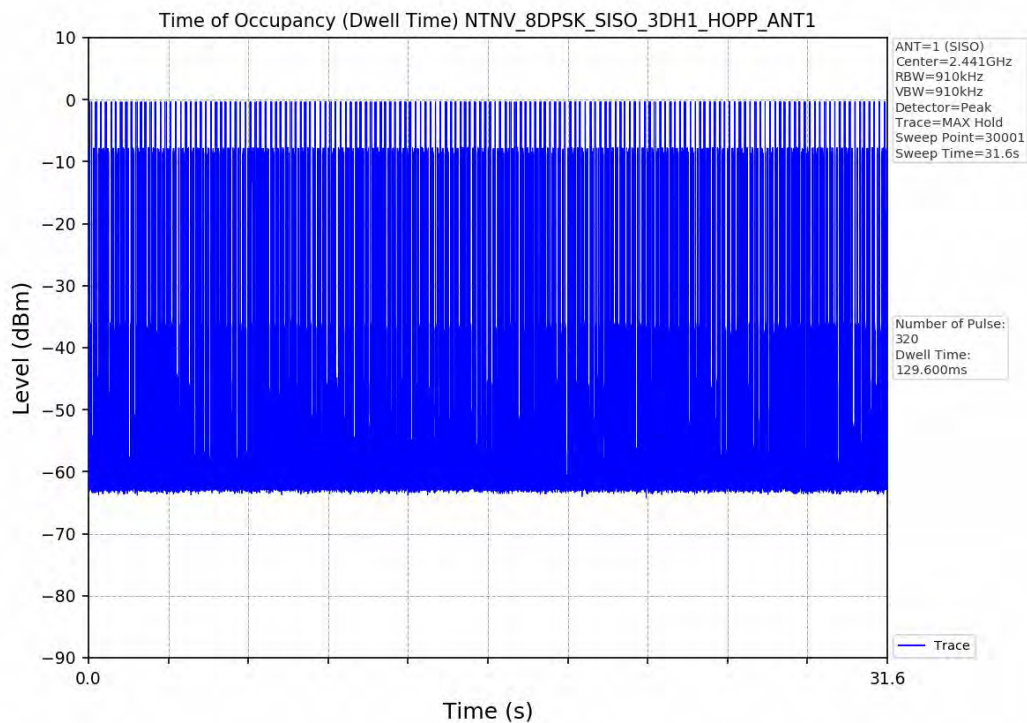


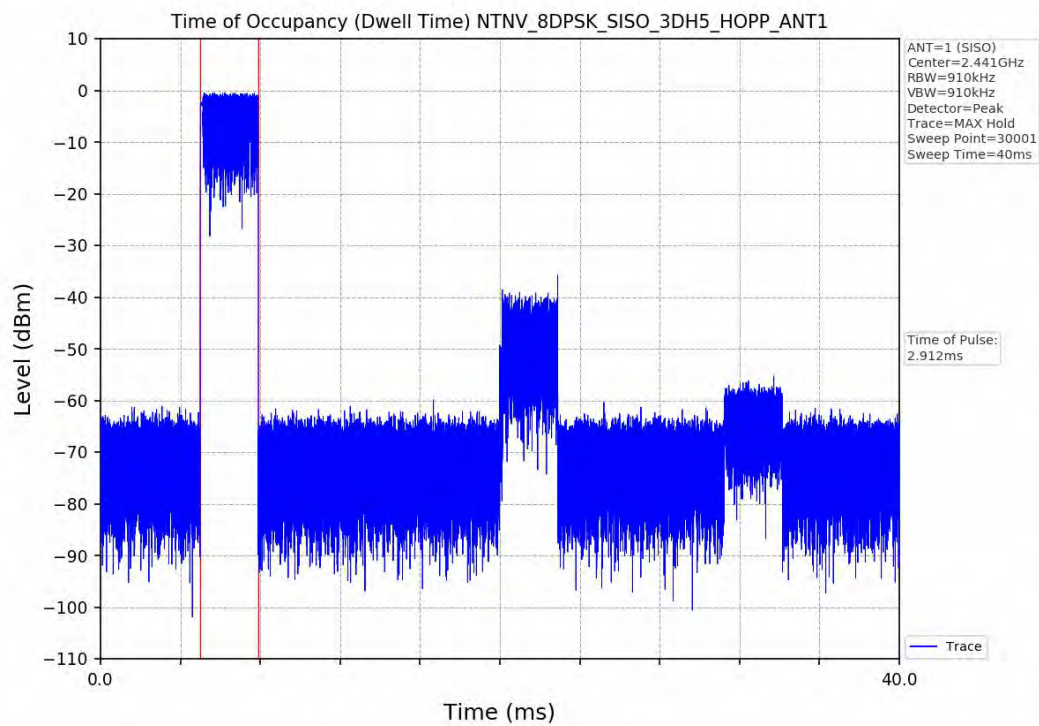
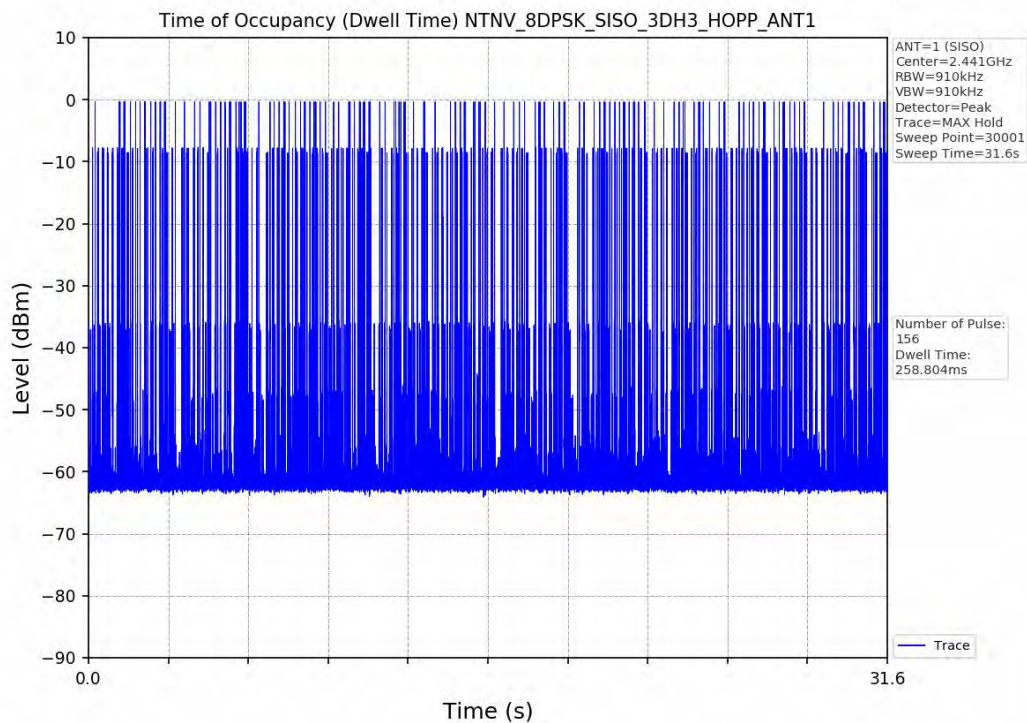


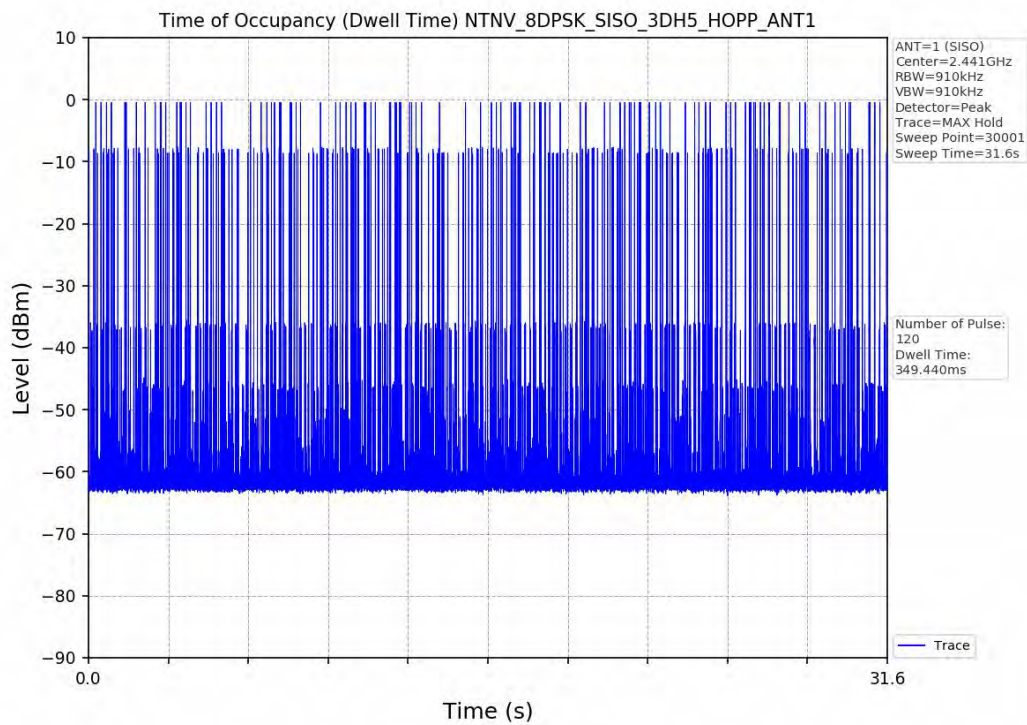










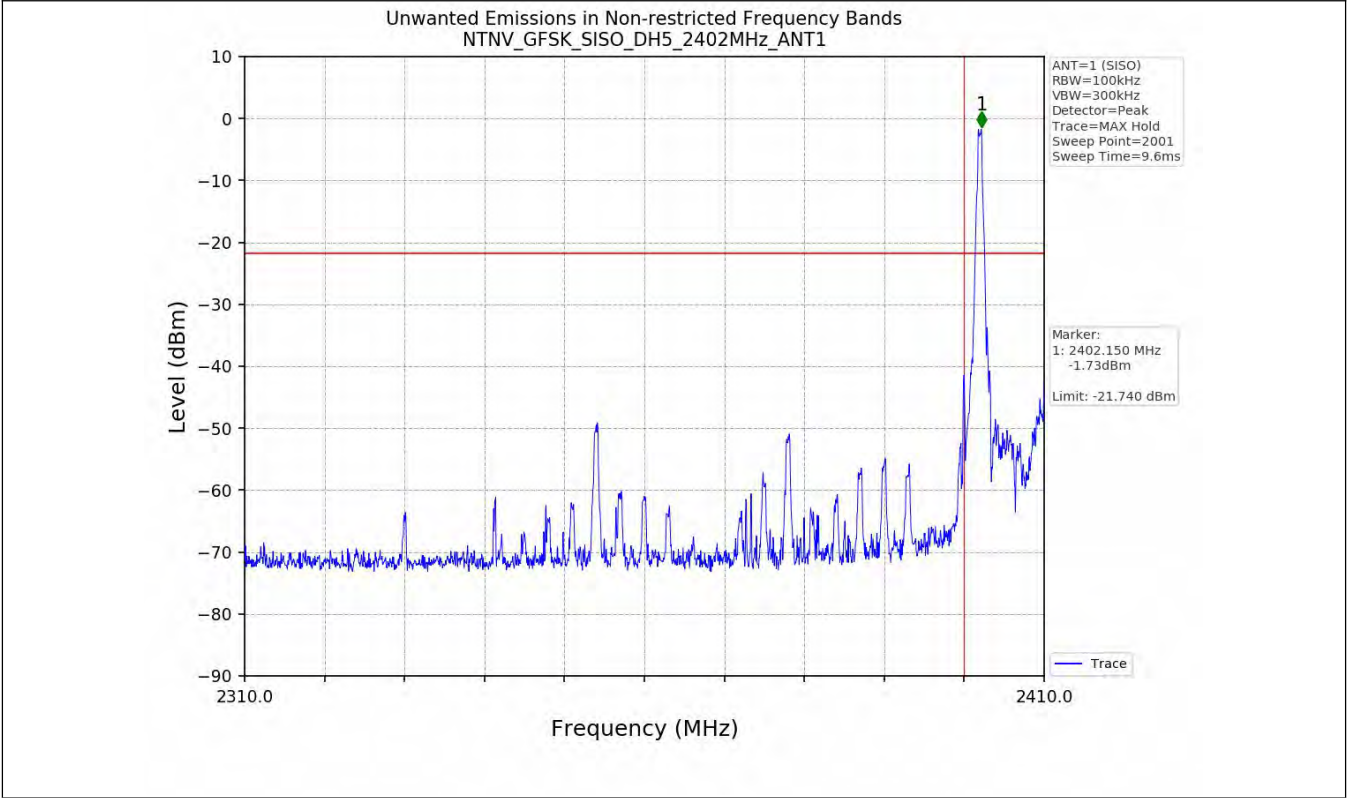
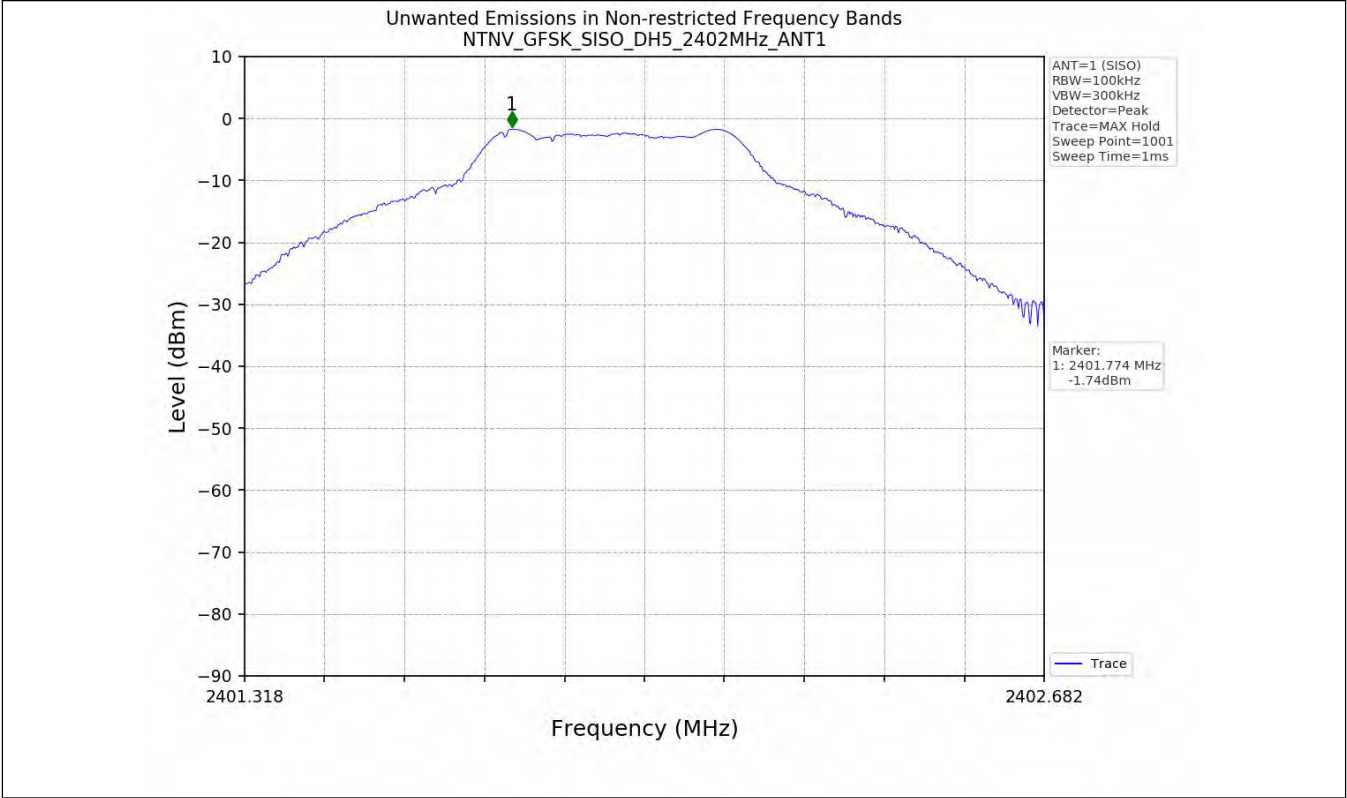


6. Unwanted Emissions in Non-restricted Frequency Bands

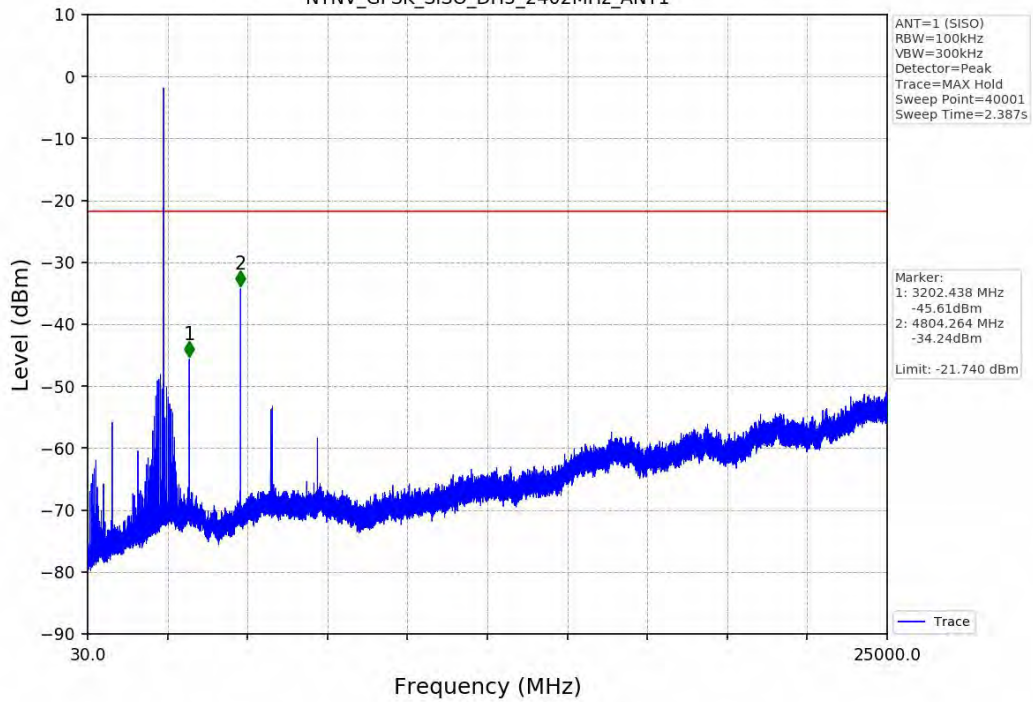
6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-21.74	PASS
	2441	SISO	1	Refer to test graph	-21.74	PASS
	2480	SISO	1	Refer to test graph	-21.74	PASS
	Hopping	SISO	1	Refer to test graph	-21.74	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-21.80	PASS
	2441	SISO	1	Refer to test graph	-21.80	PASS
	2480	SISO	1	Refer to test graph	-21.80	PASS
	Hopping	SISO	1	Refer to test graph	-21.80	PASS
8DPSK	2402	SISO	1	Refer to test graph	-21.82	PASS
	2441	SISO	1	Refer to test graph	-21.82	PASS
	2480	SISO	1	Refer to test graph	-21.82	PASS
	Hopping	SISO	1	Refer to test graph	-21.82	PASS

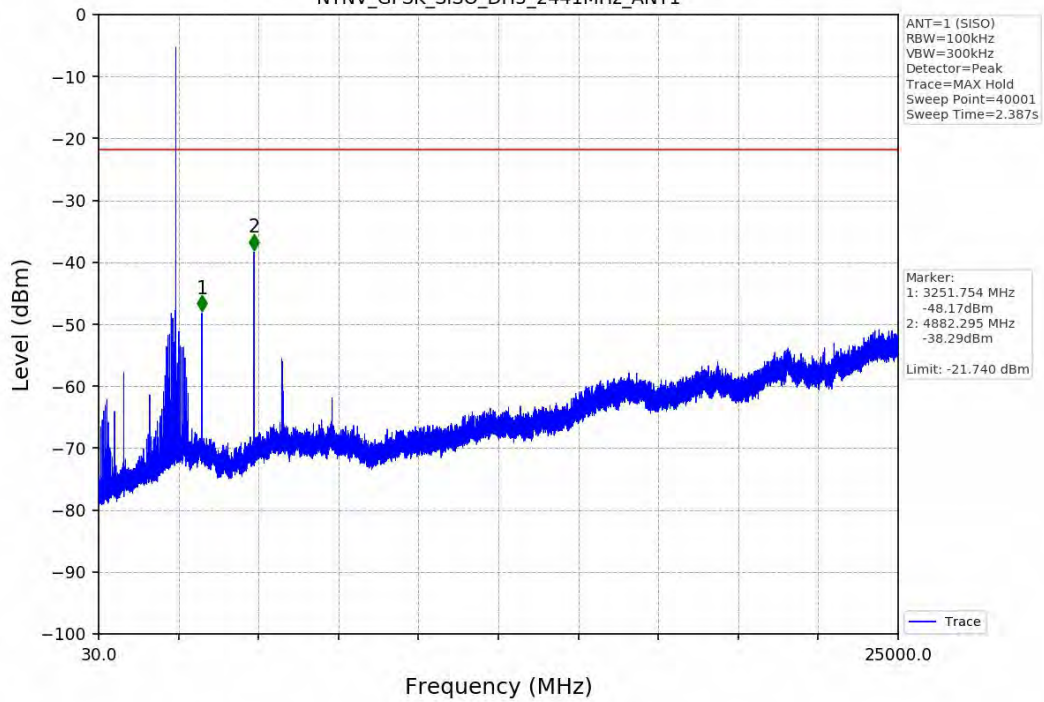
6.2 Test Graph

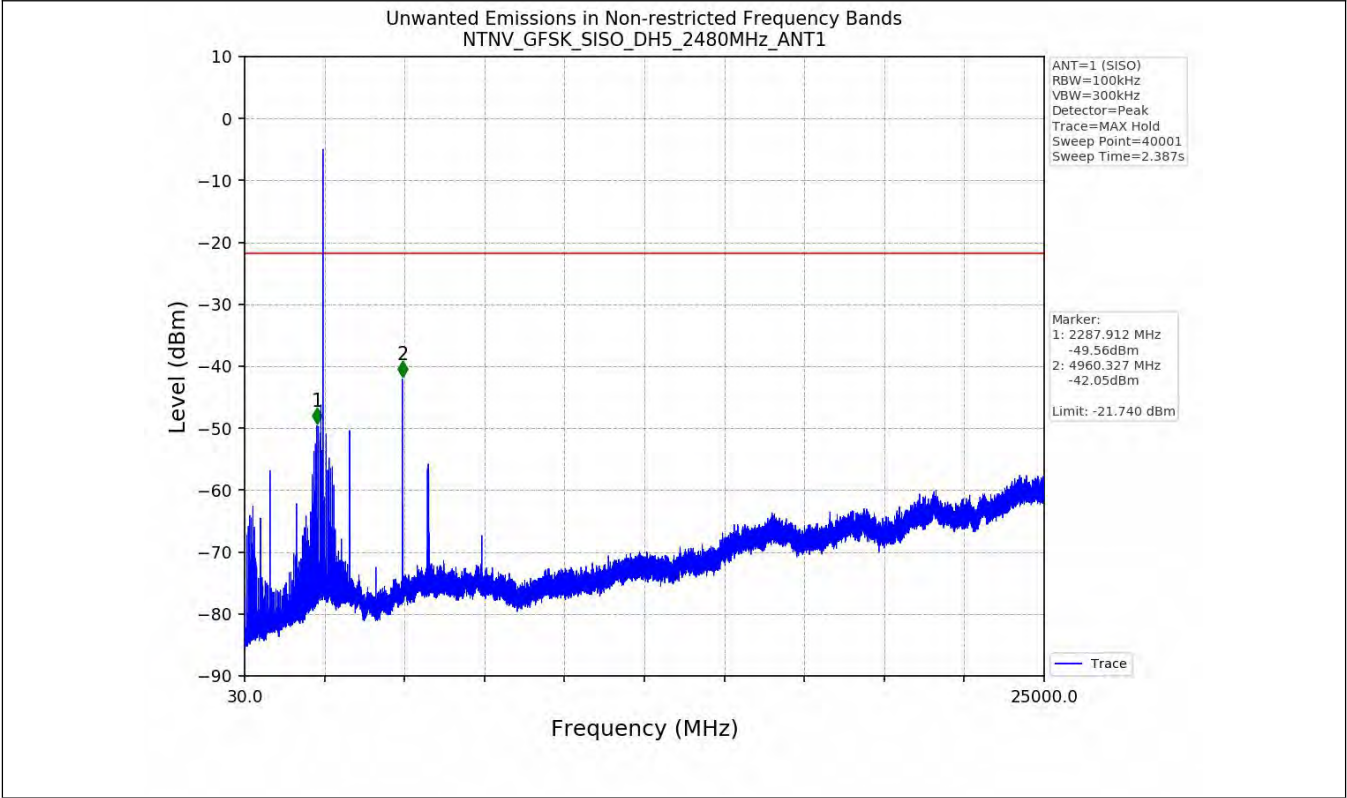
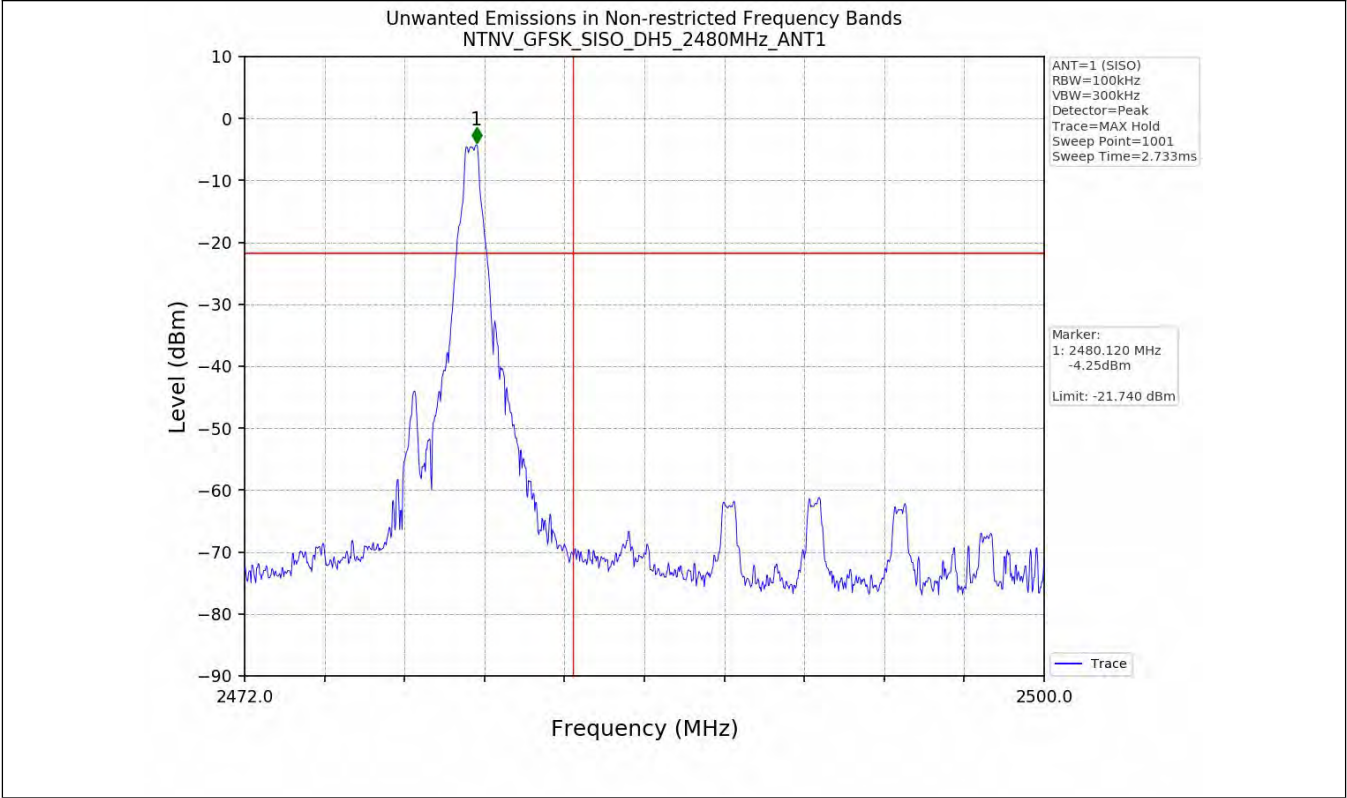


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2402MHz_ANT1

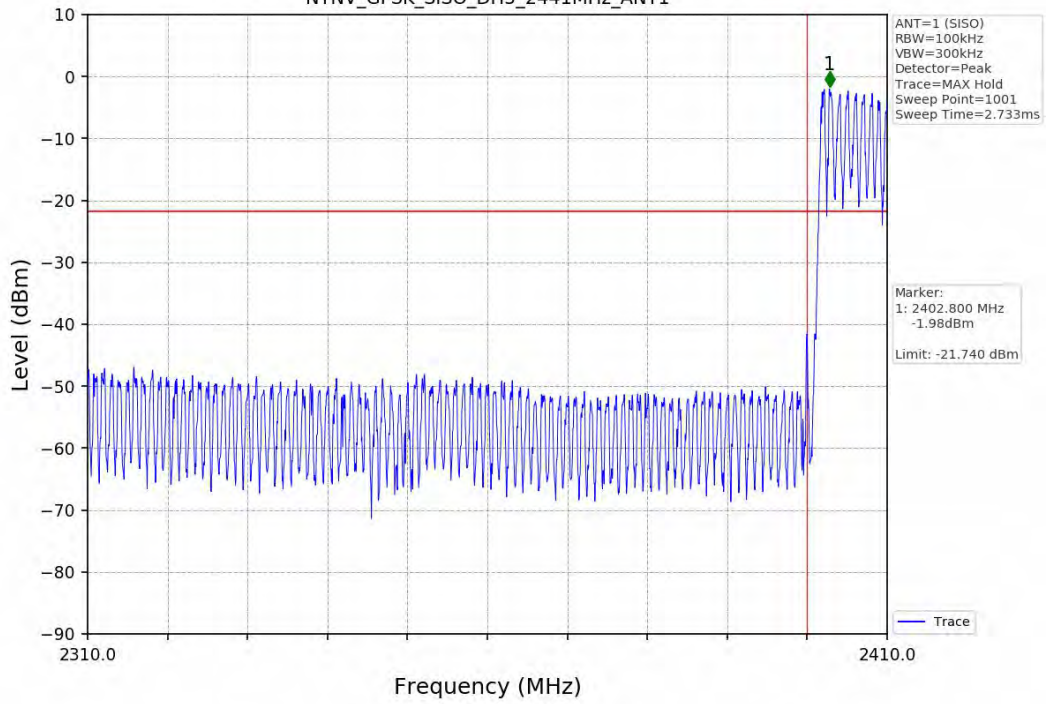


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

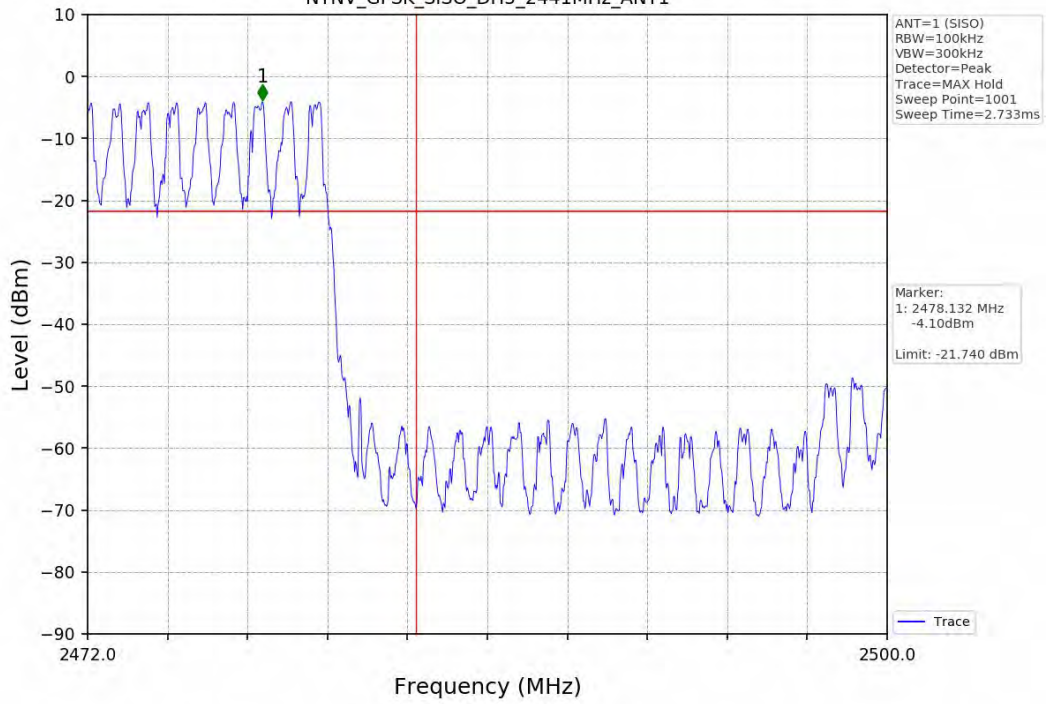


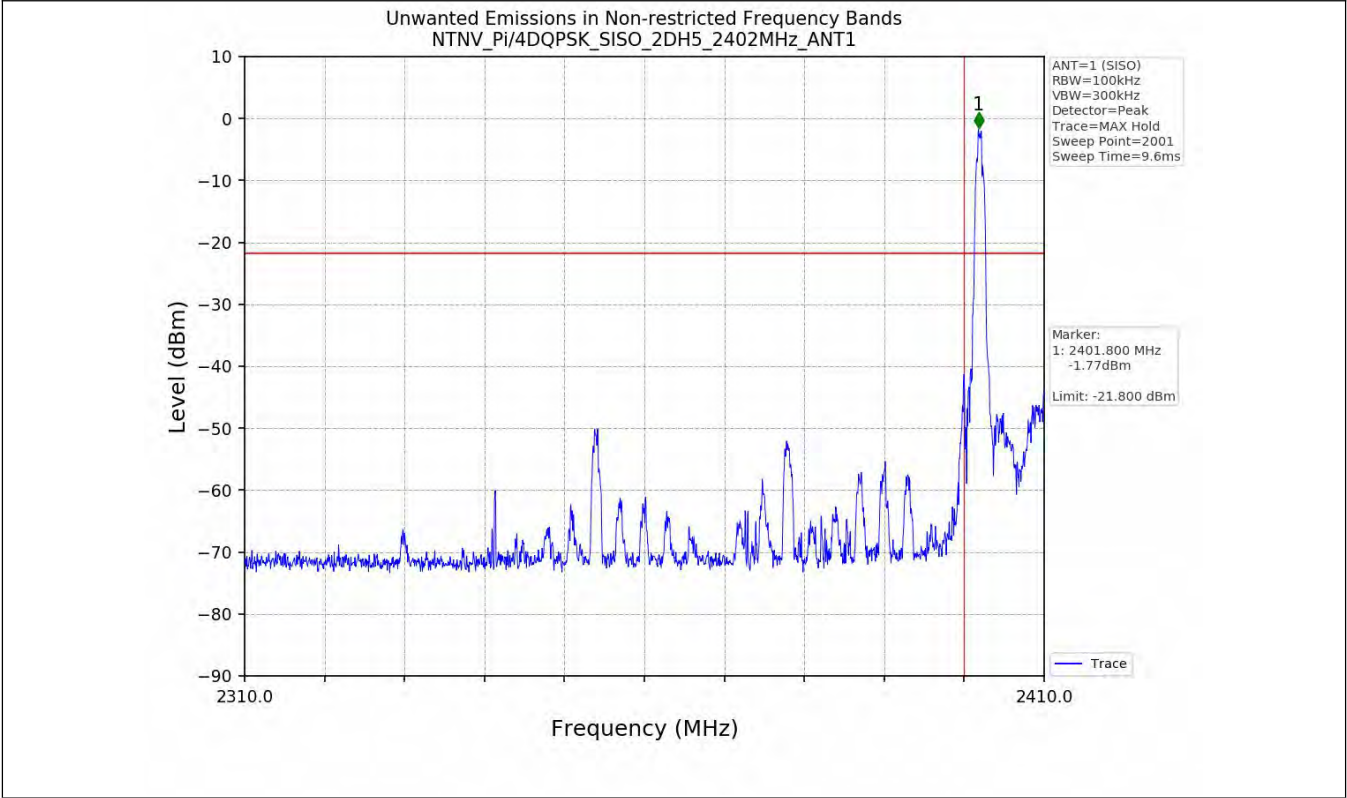
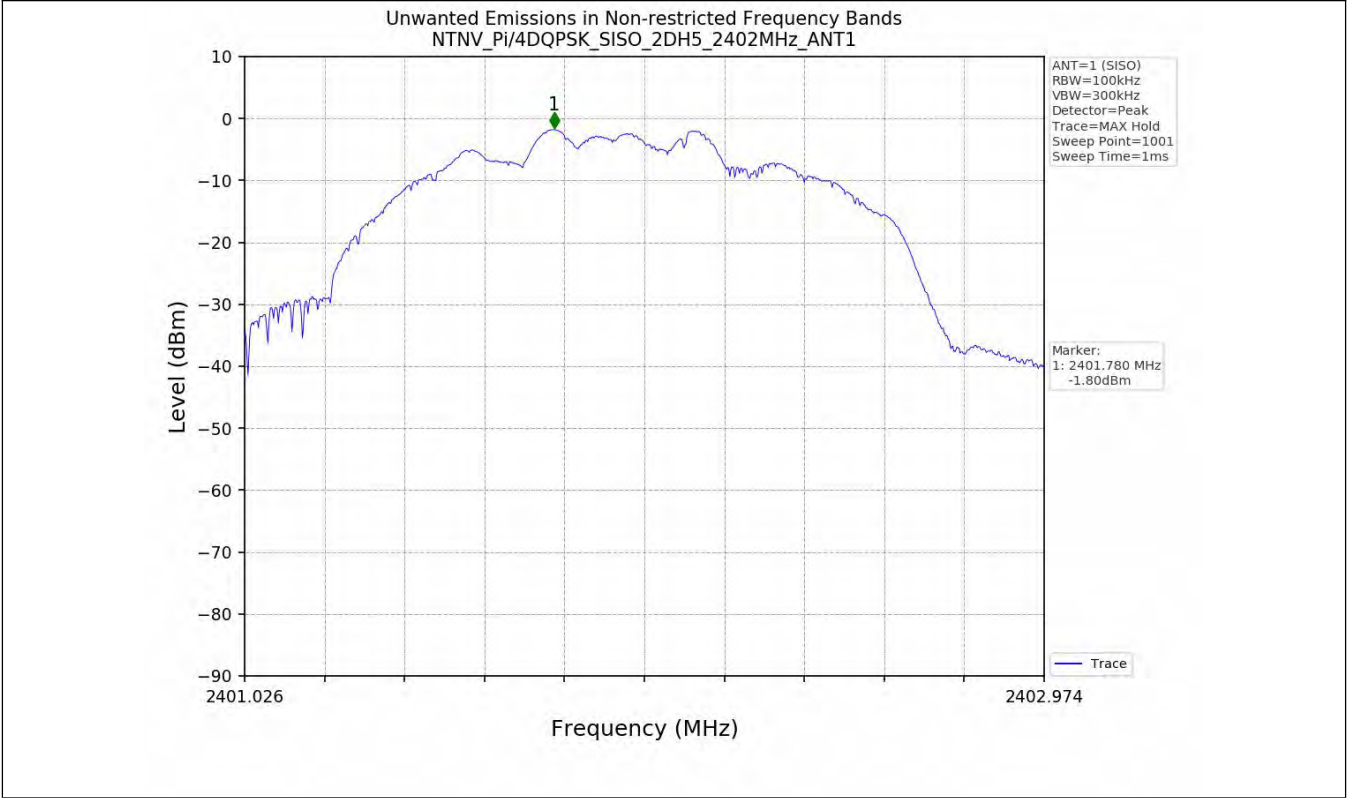


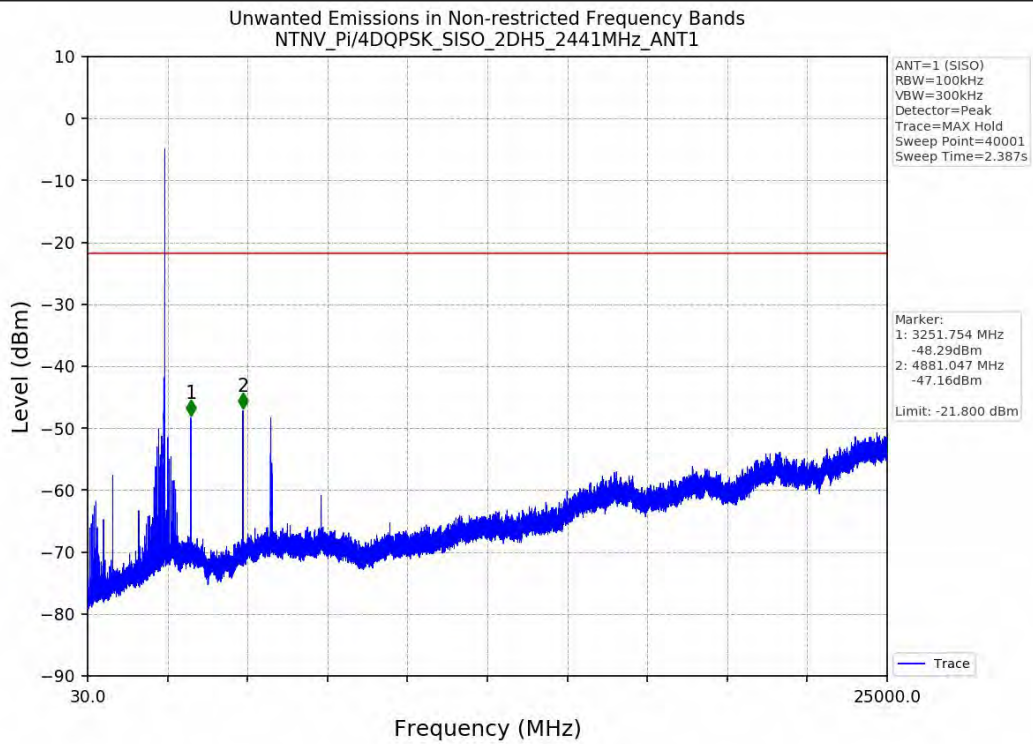
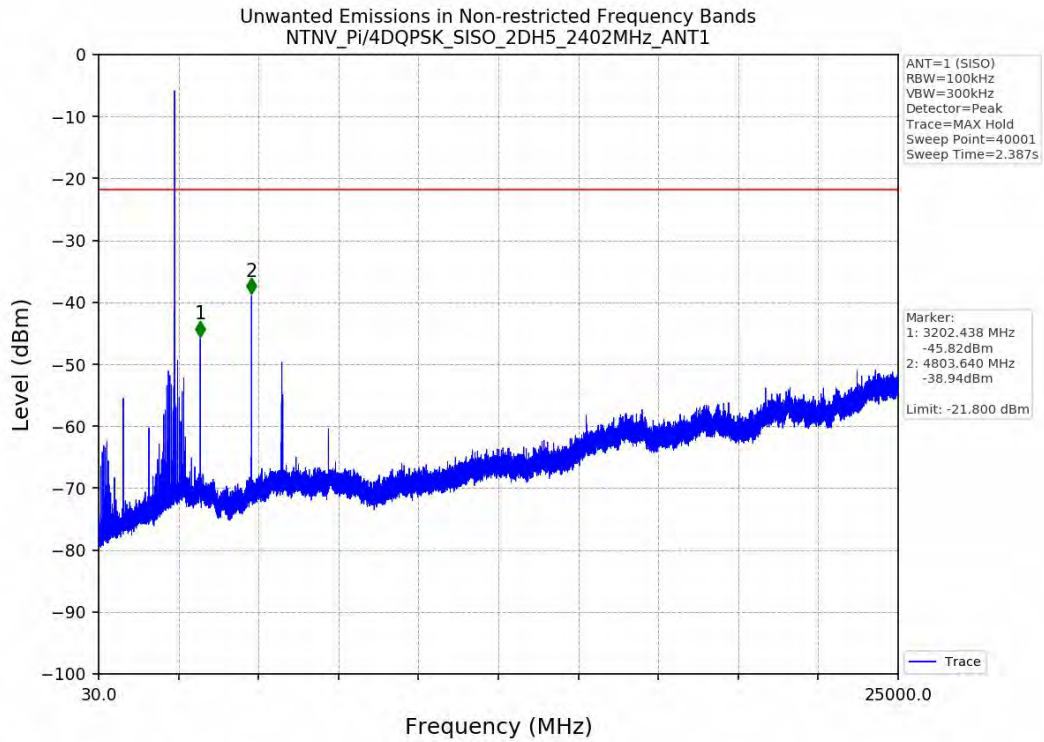
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

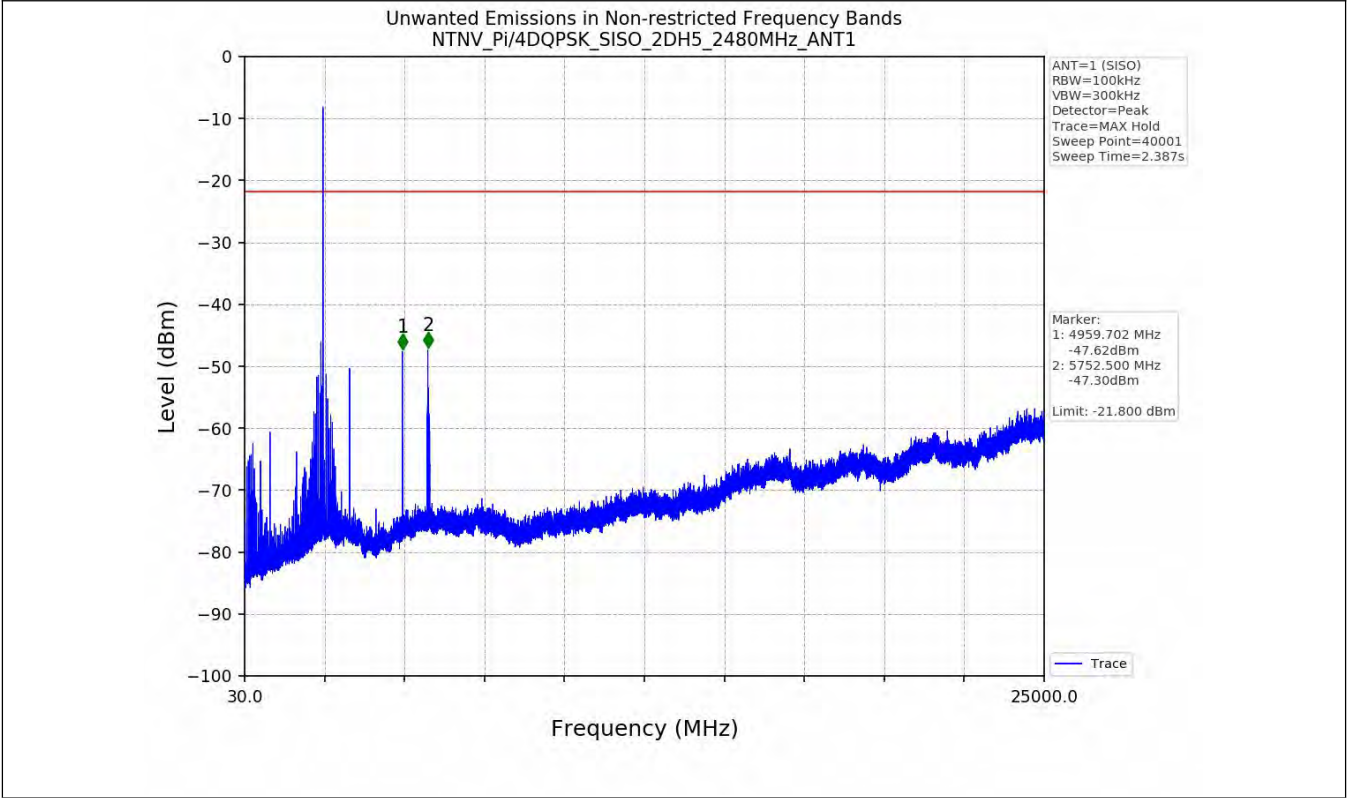
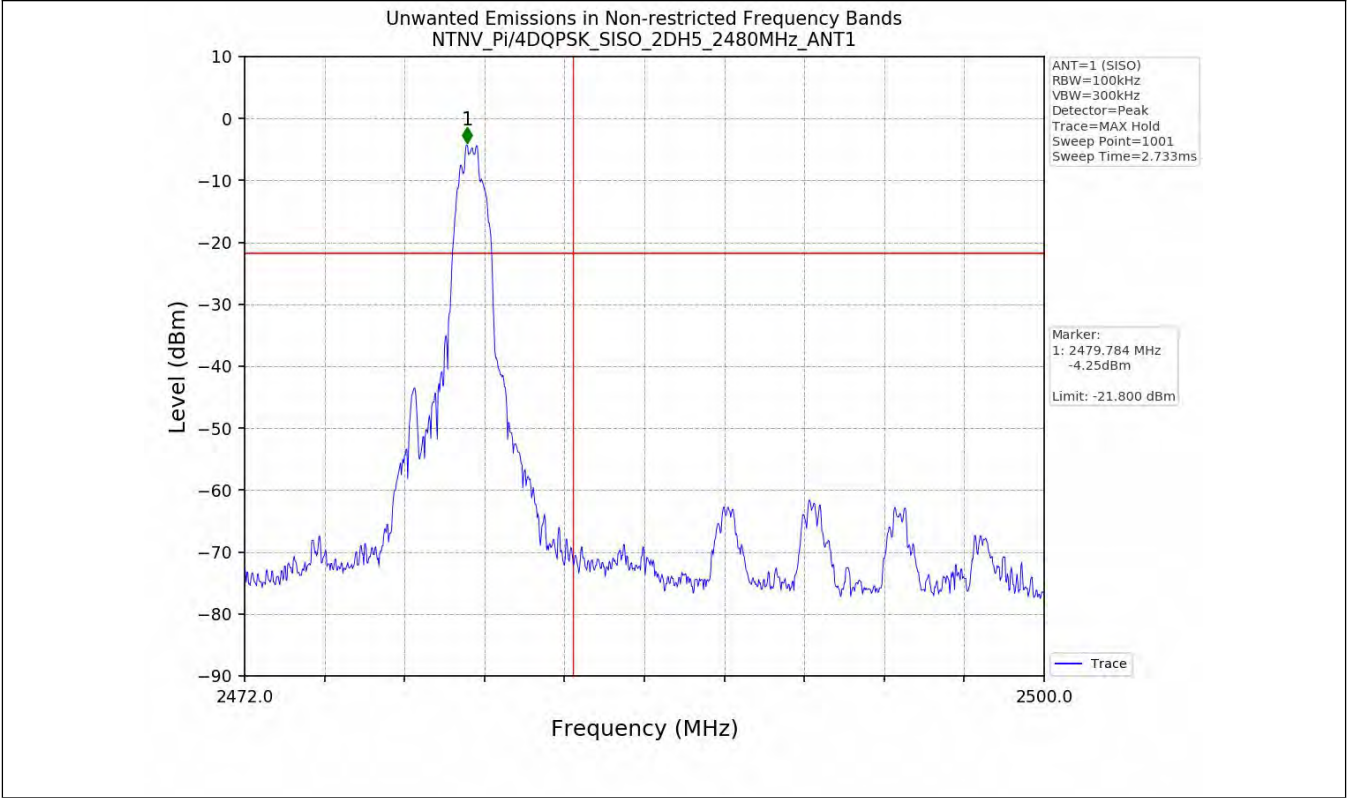


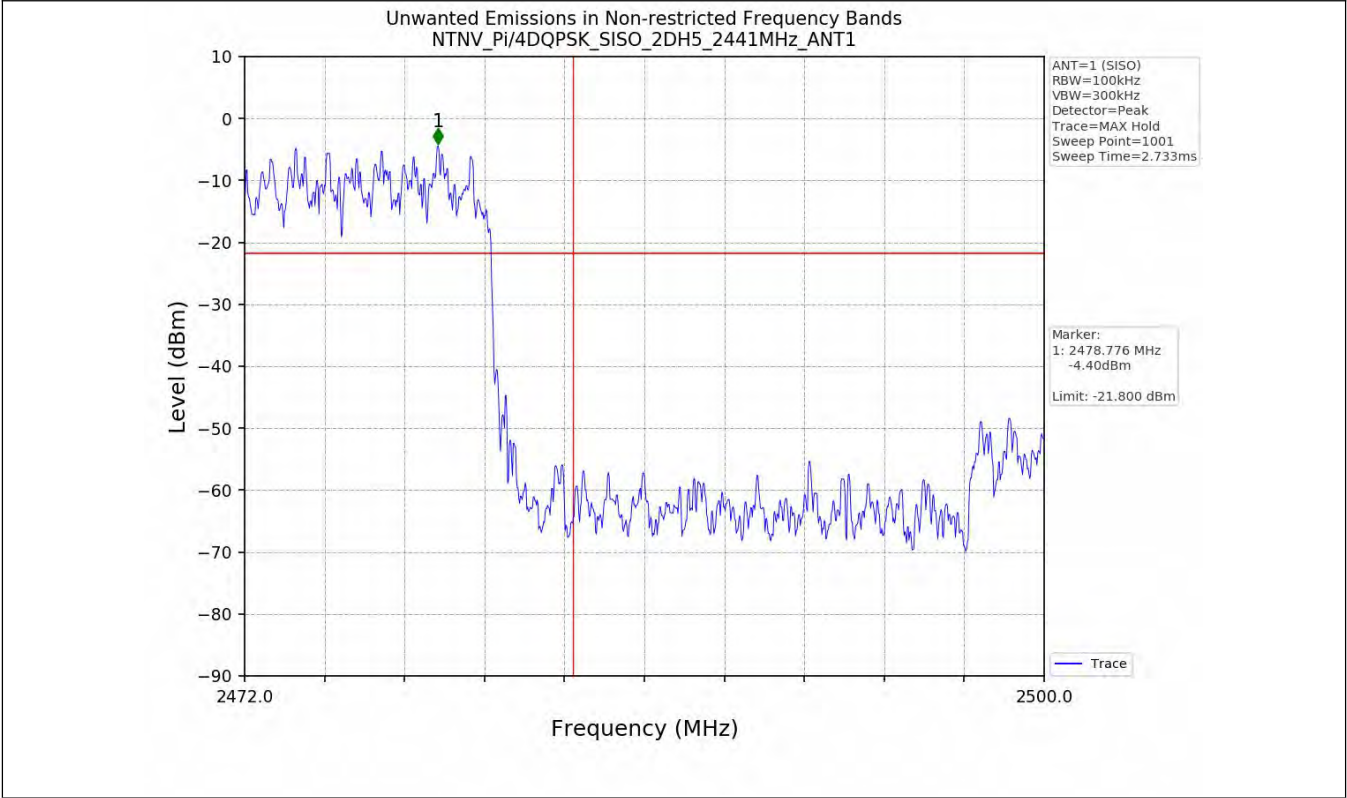
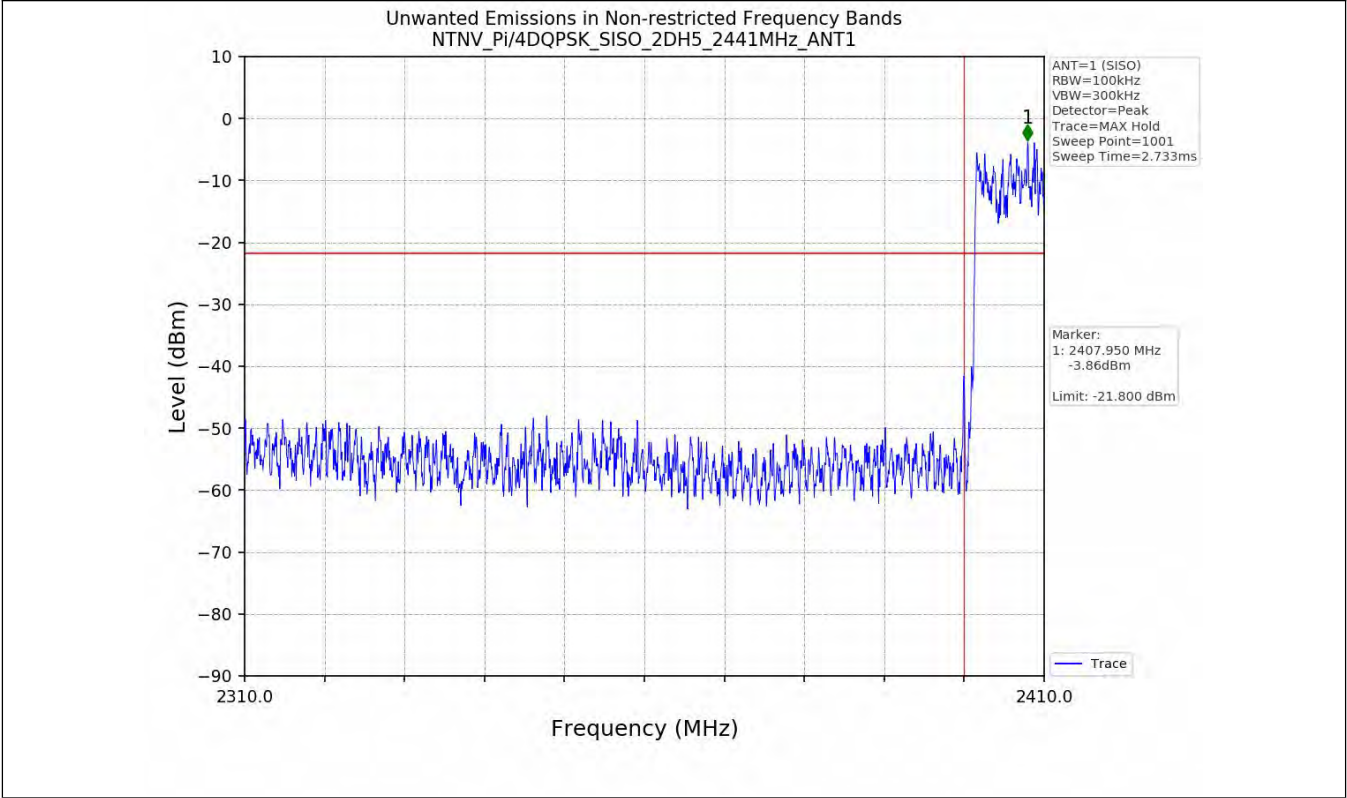
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

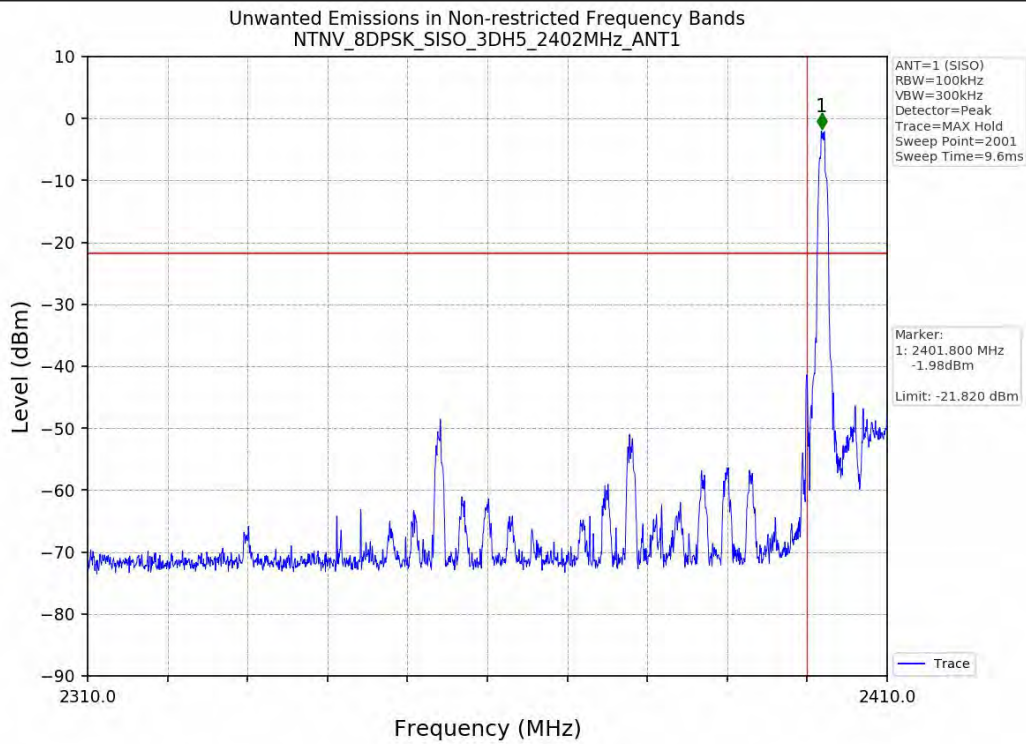
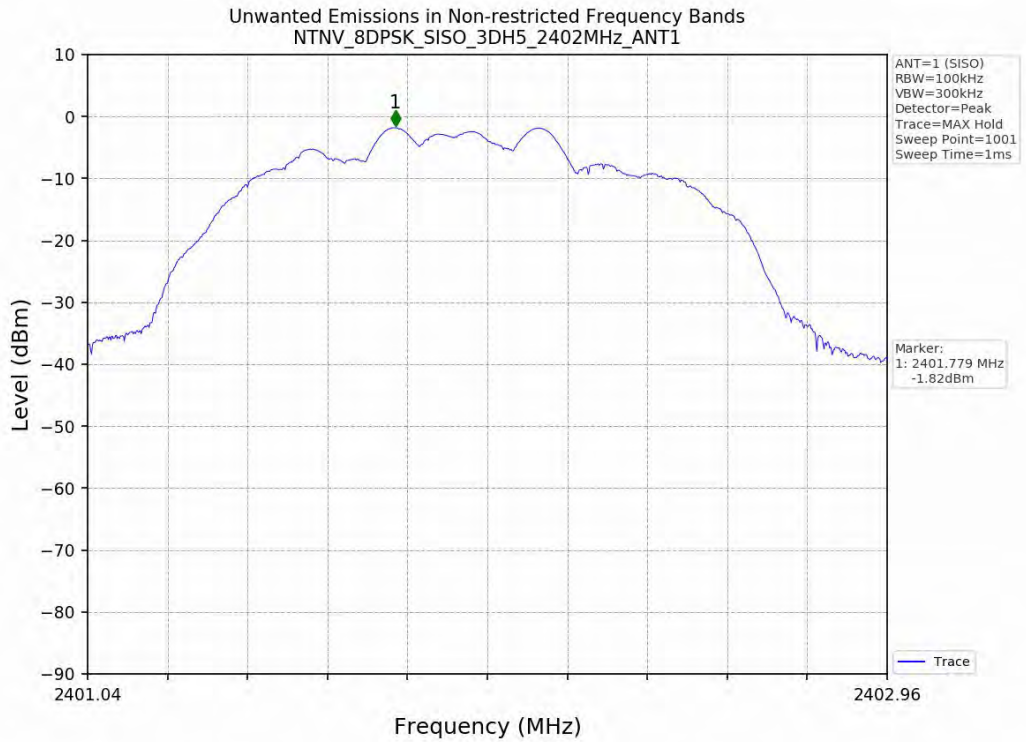




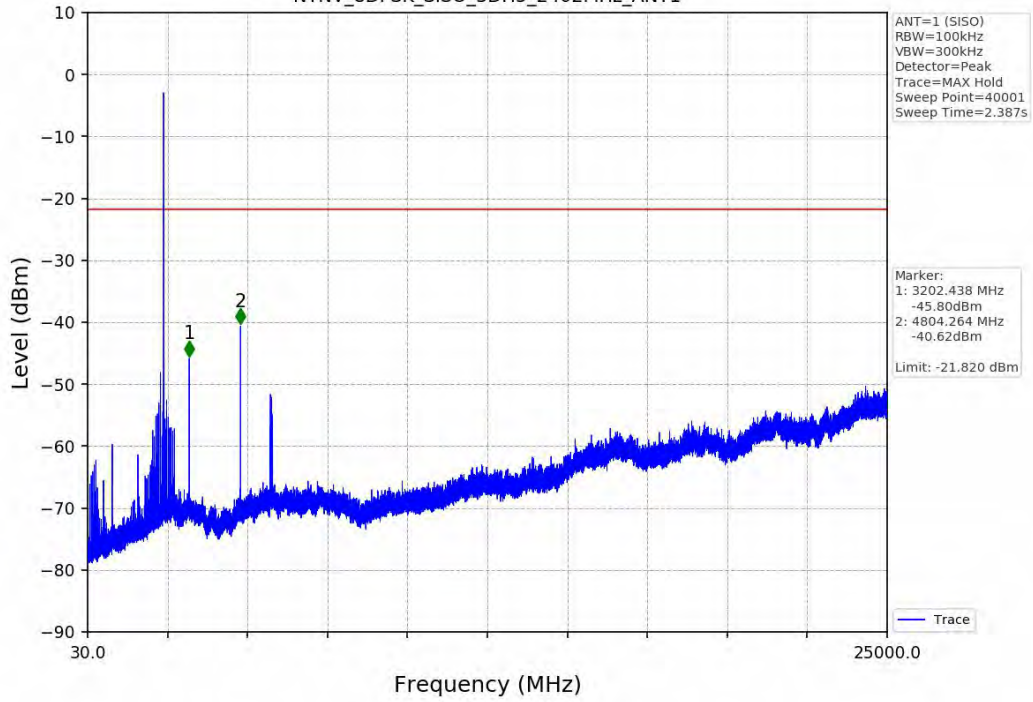








Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2402MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1

