

Appendix for 15.247

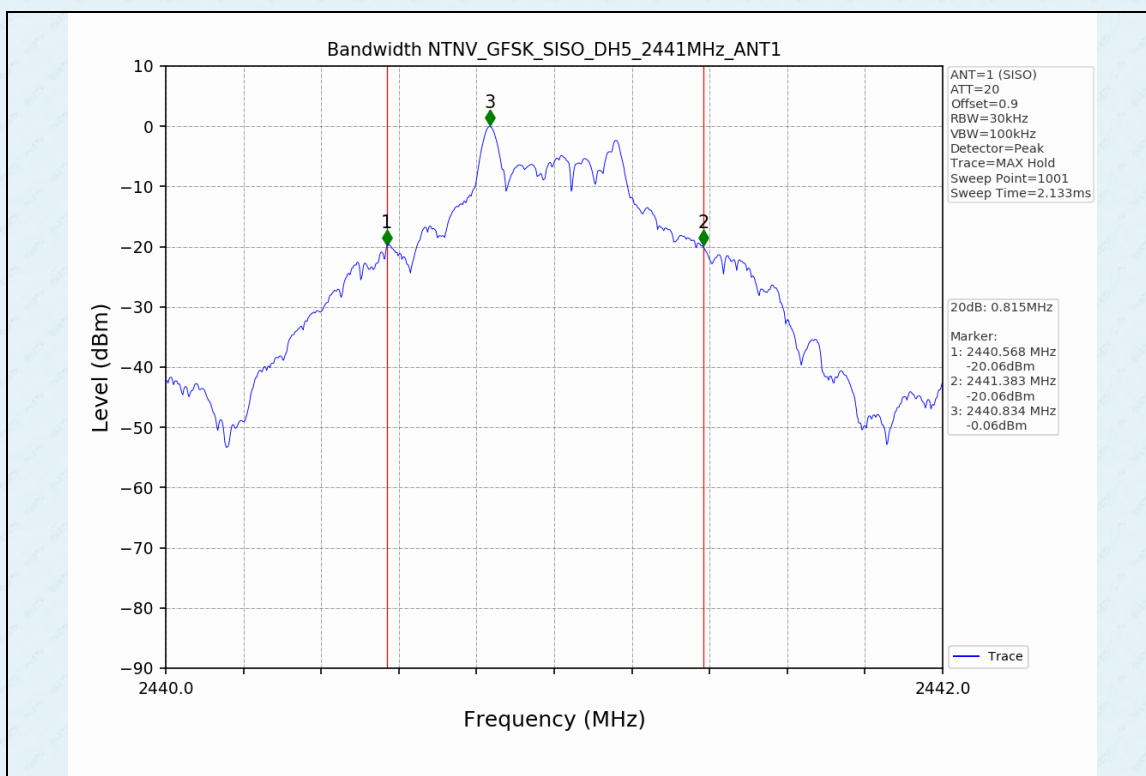
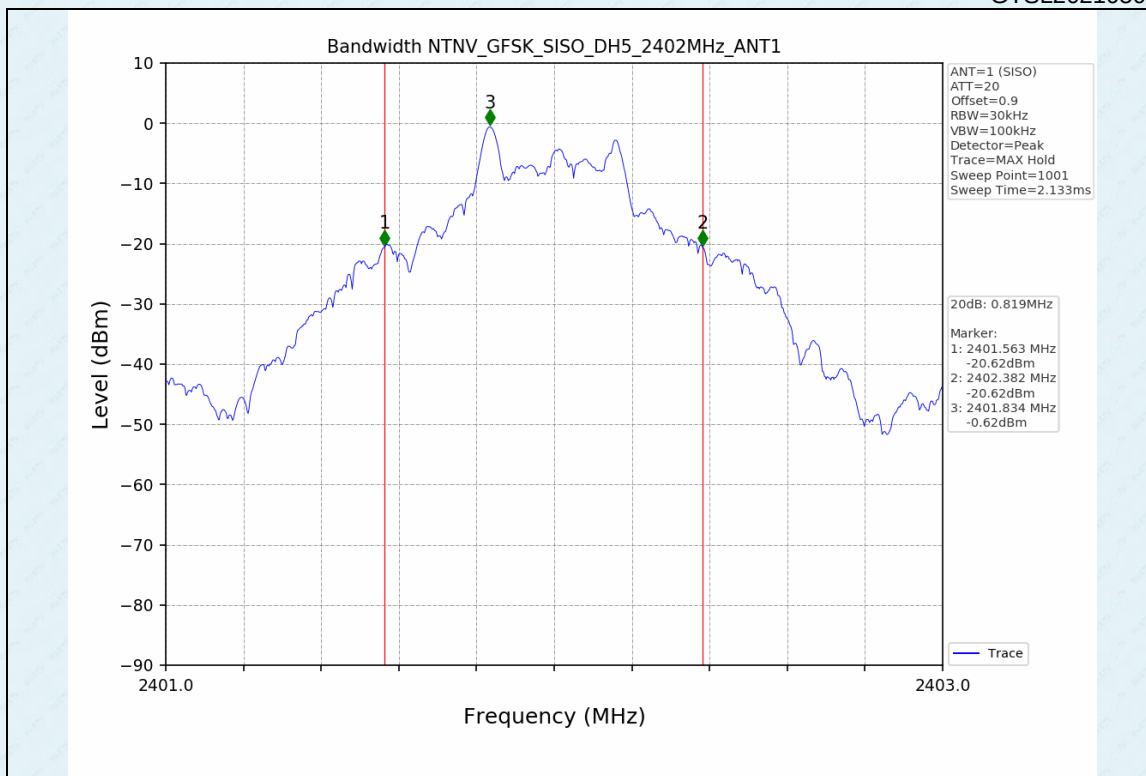
1. Bandwidth

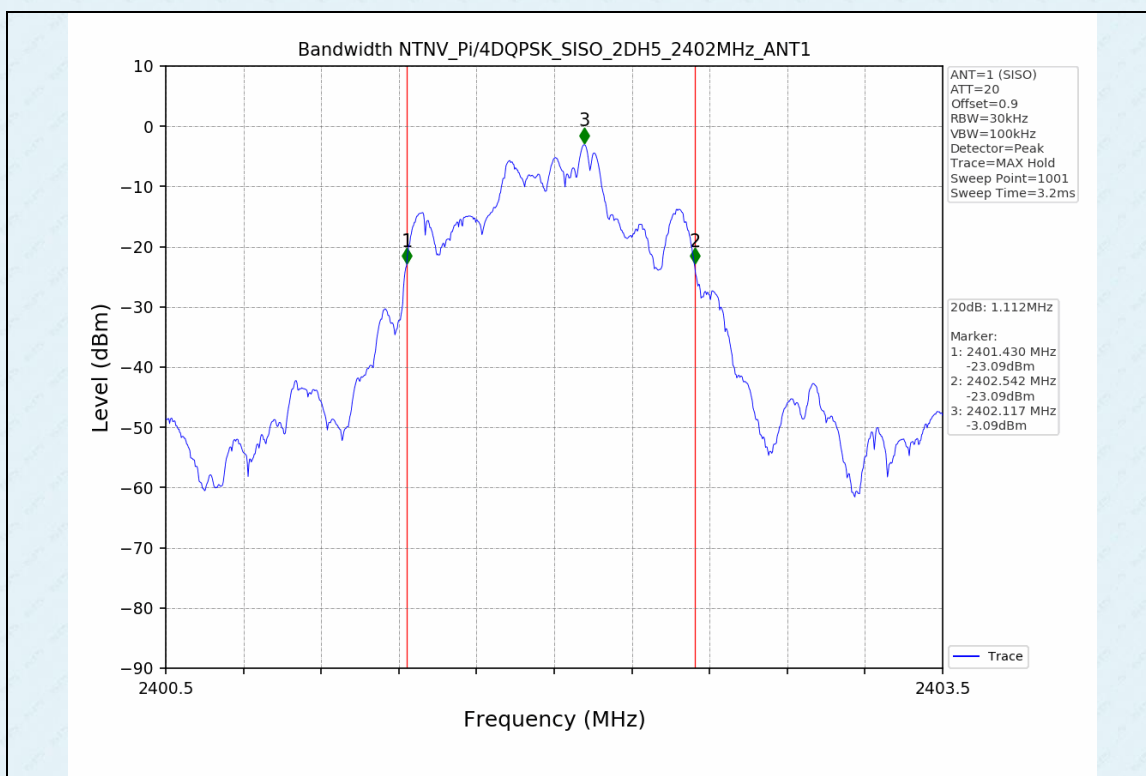
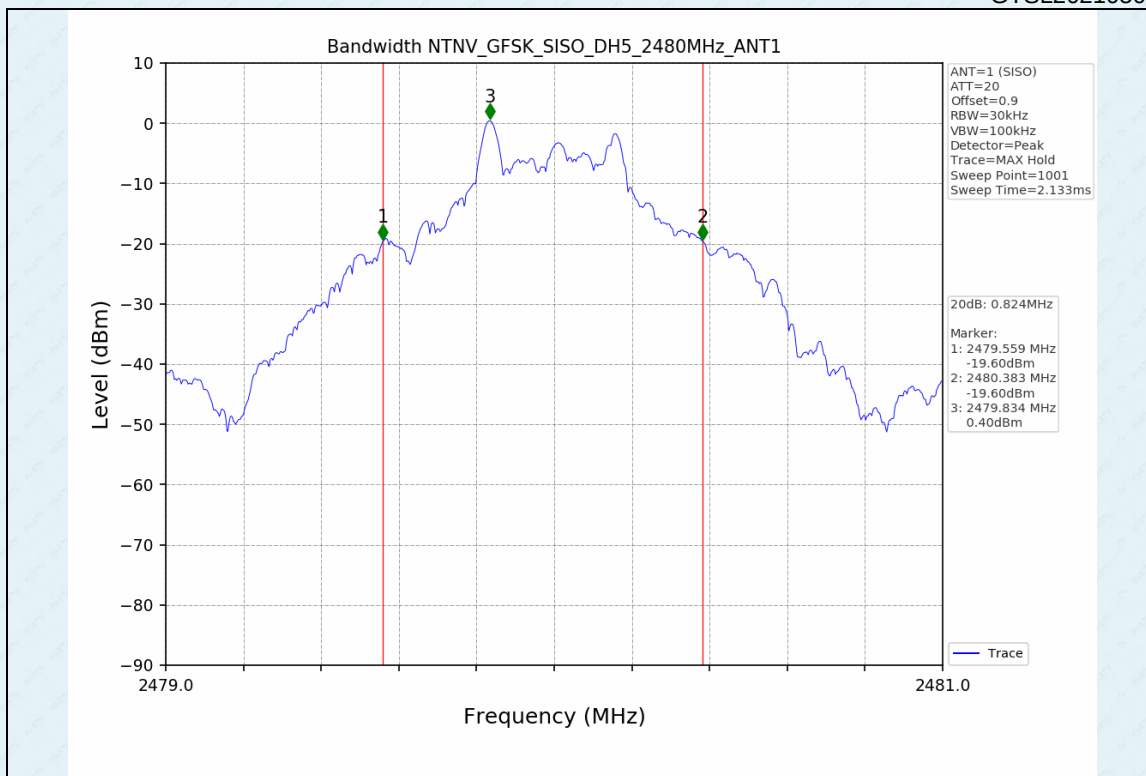
1.1 Test Result

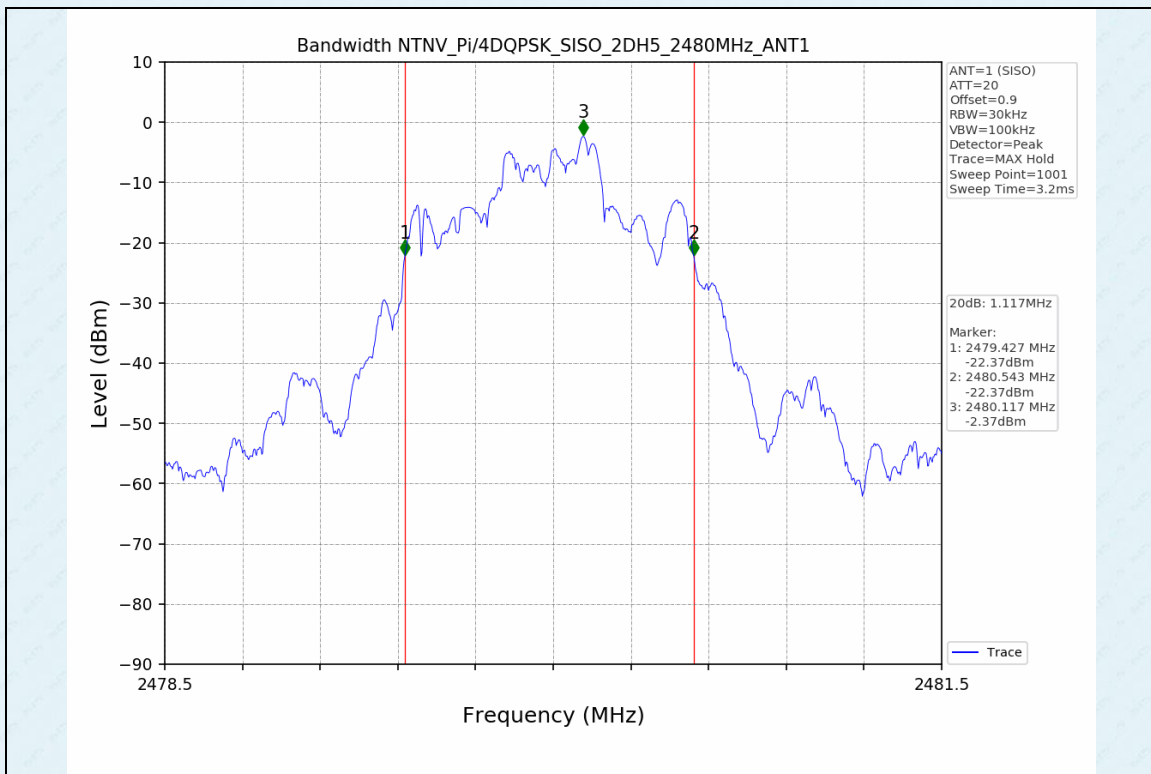
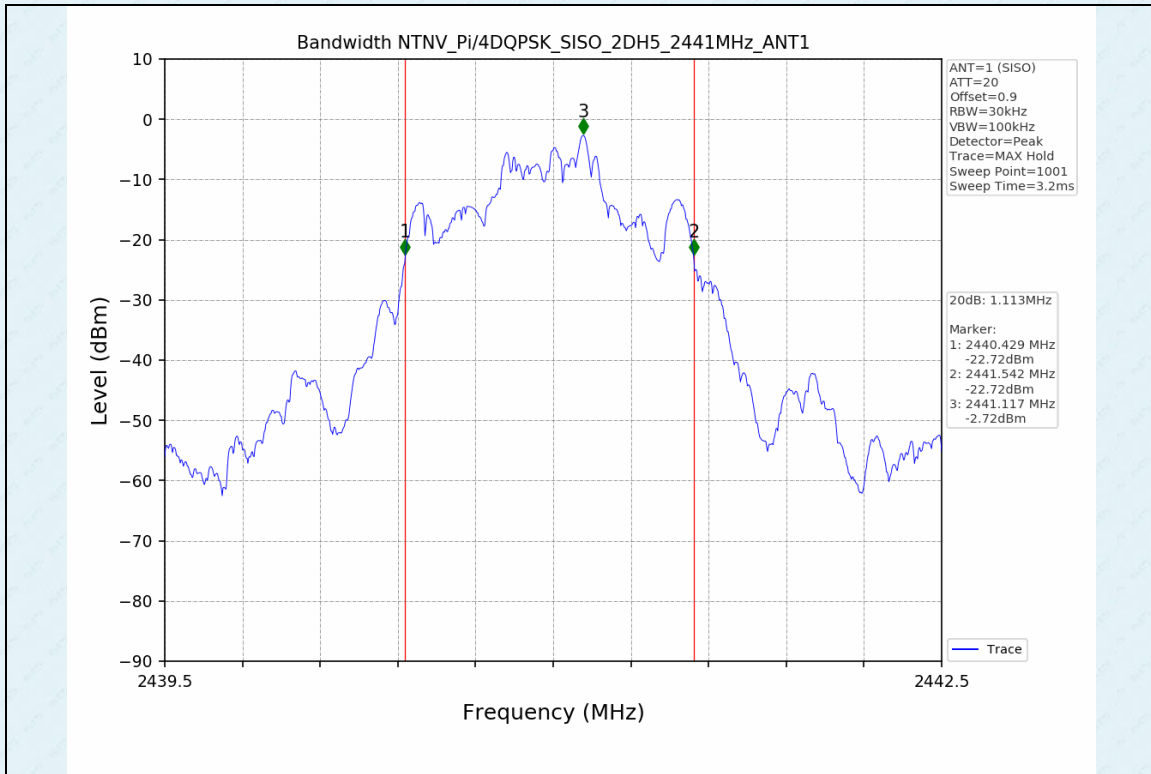
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.819	PASS
	2441	SISO	1	0.815	PASS
	2480	SISO	1	0.824	PASS
Pi/4DQPSK	2402	SISO	1	1.112	PASS
	2441	SISO	1	1.113	PASS
	2480	SISO	1	1.117	PASS
8DPSK	2402	SISO	1	1.128	PASS
	2441	SISO	1	1.153	PASS
	2480	SISO	1	1.151	PASS

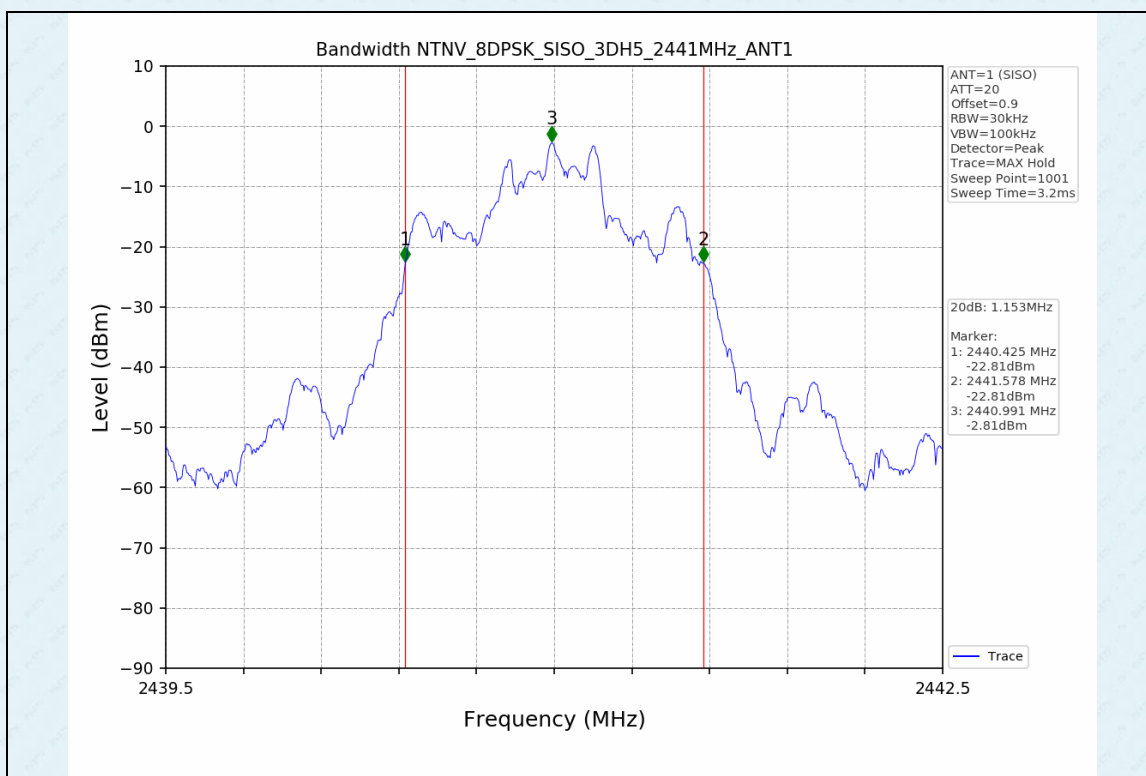
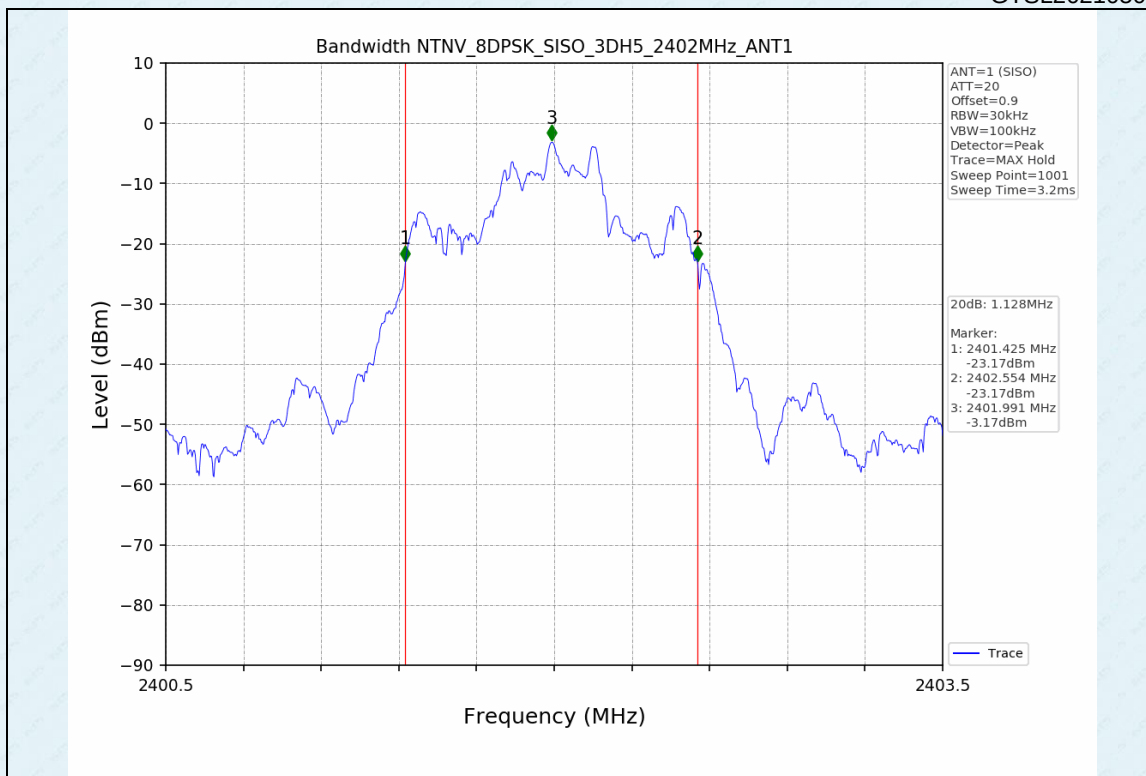
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.863	Only for Report Use
	2441	SISO	1	0.858	Only for Report Use
	2480	SISO	1	0.859	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.060	Only for Report Use
	2441	SISO	1	1.060	Only for Report Use
	2480	SISO	1	1.061	Only for Report Use
8DPSK	2402	SISO	1	1.072	Only for Report Use
	2441	SISO	1	1.072	Only for Report Use
	2480	SISO	1	1.067	Only for Report Use

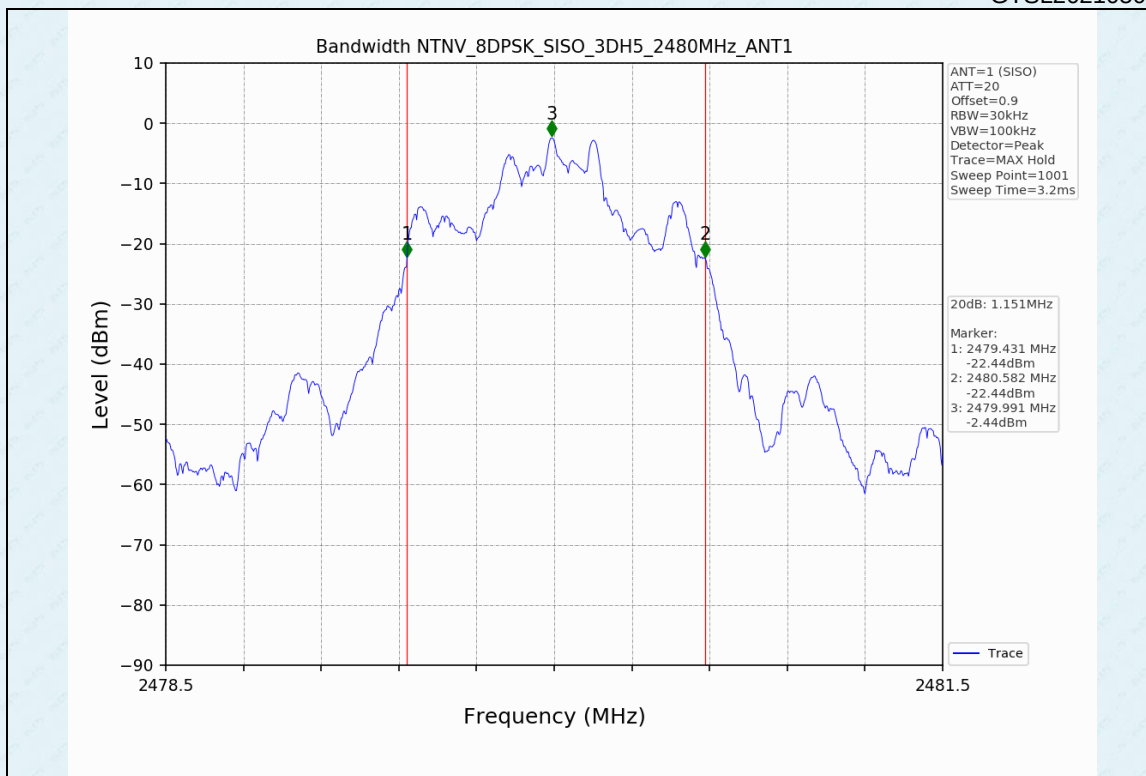
1.2 Test Graph - 20dB Bandwidth



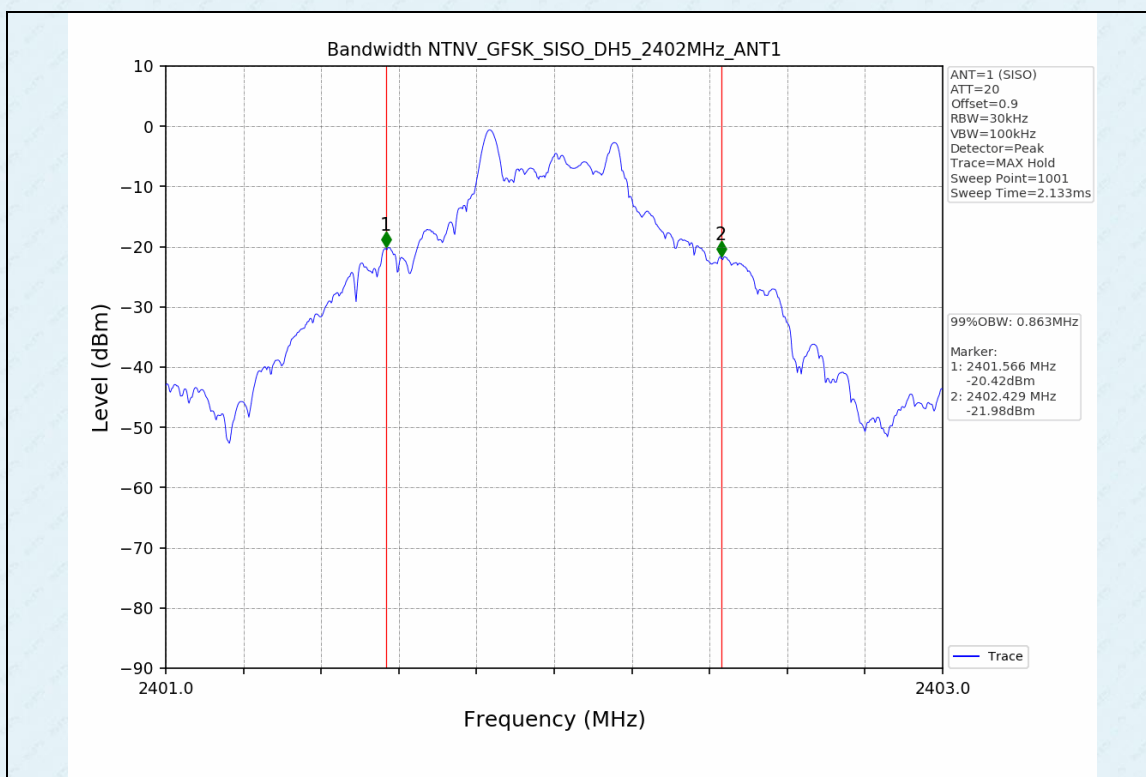


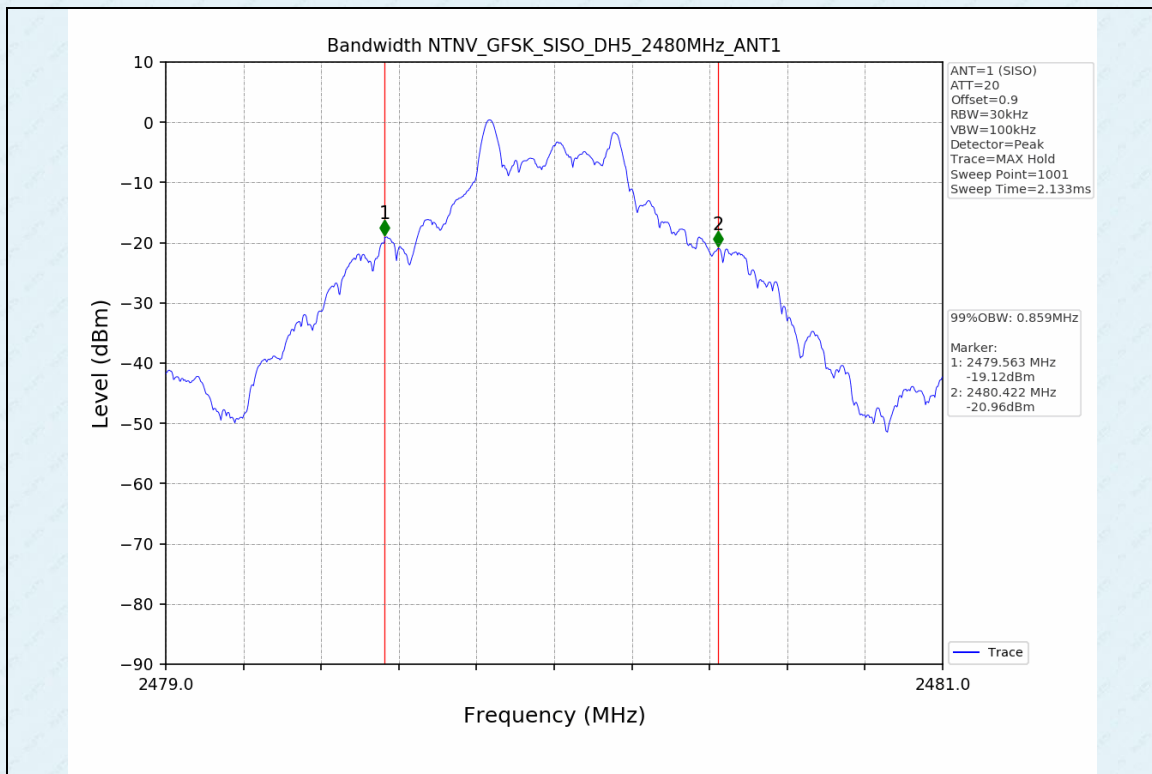
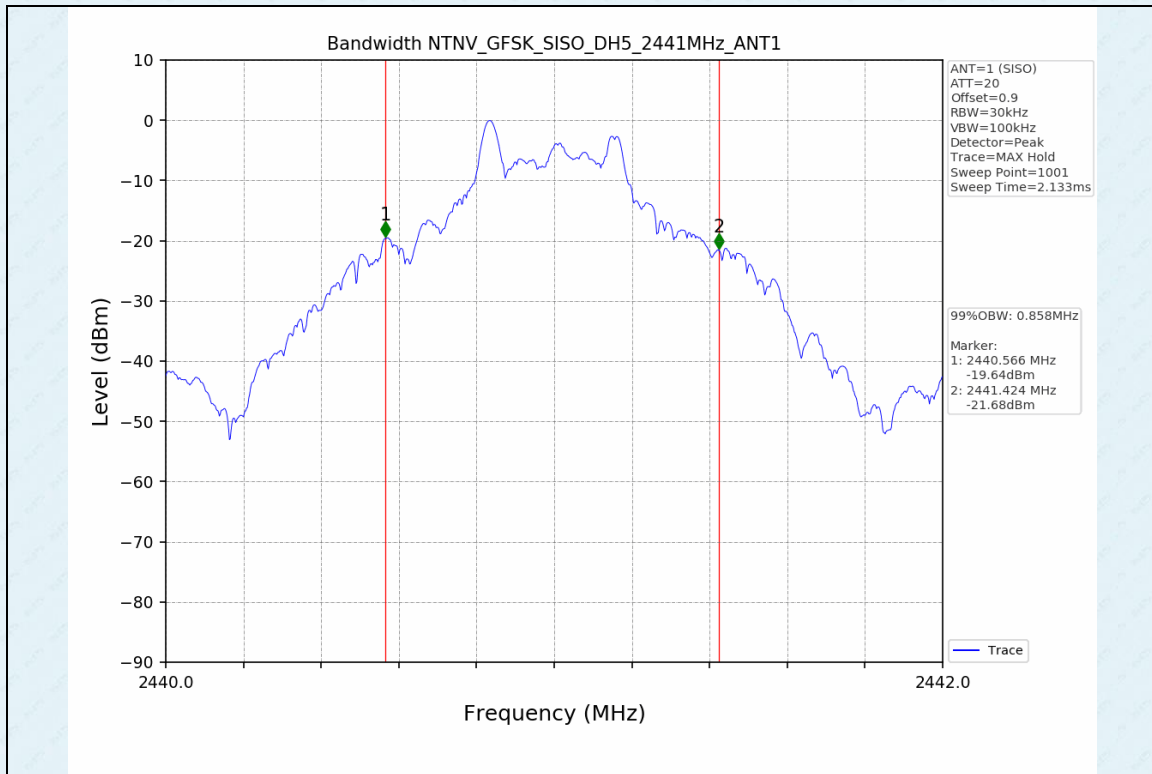


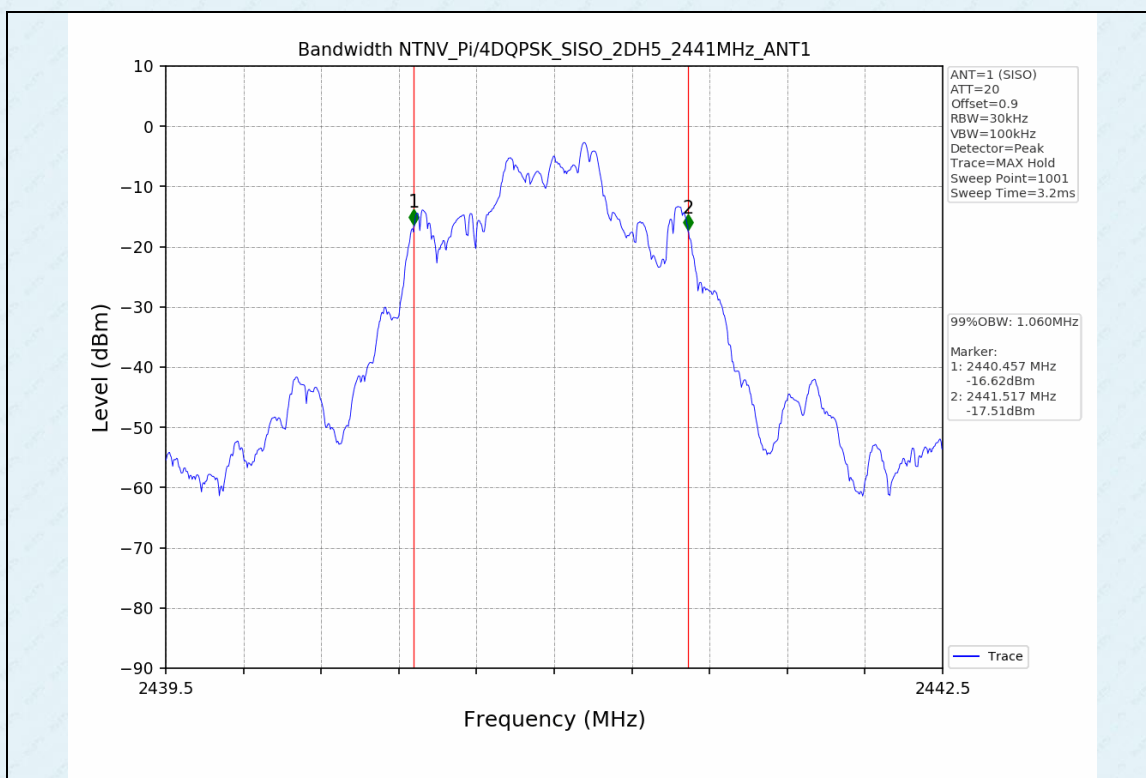
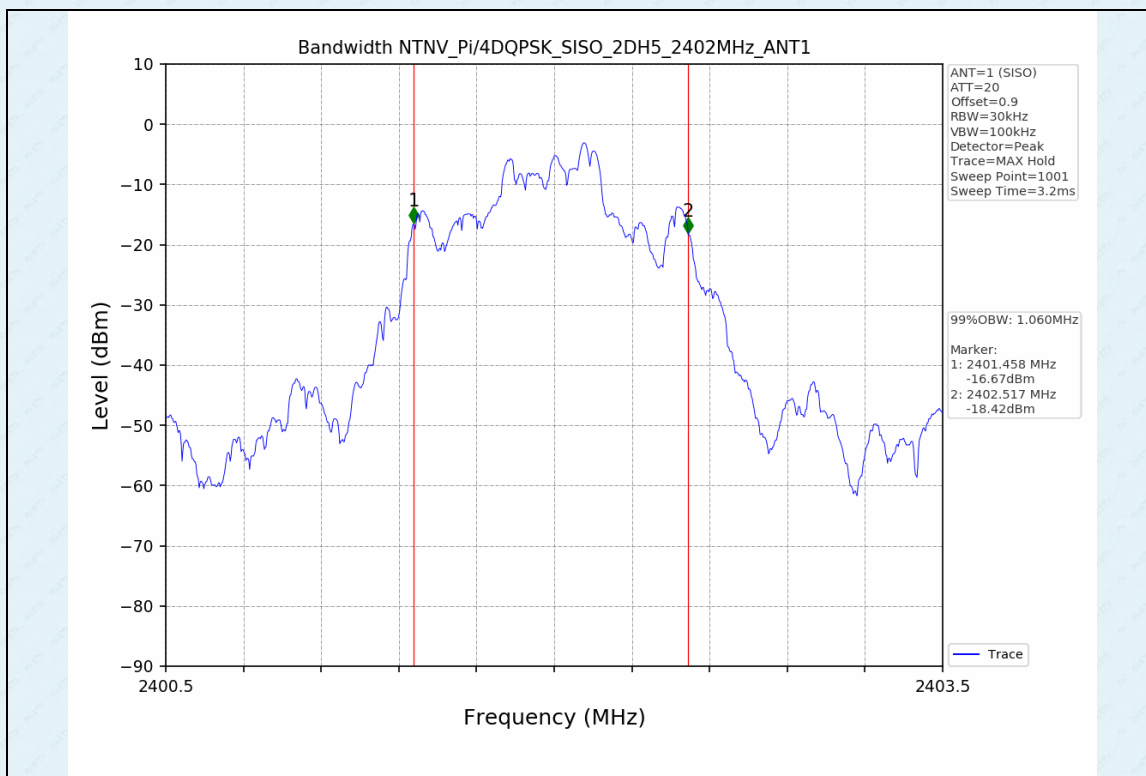


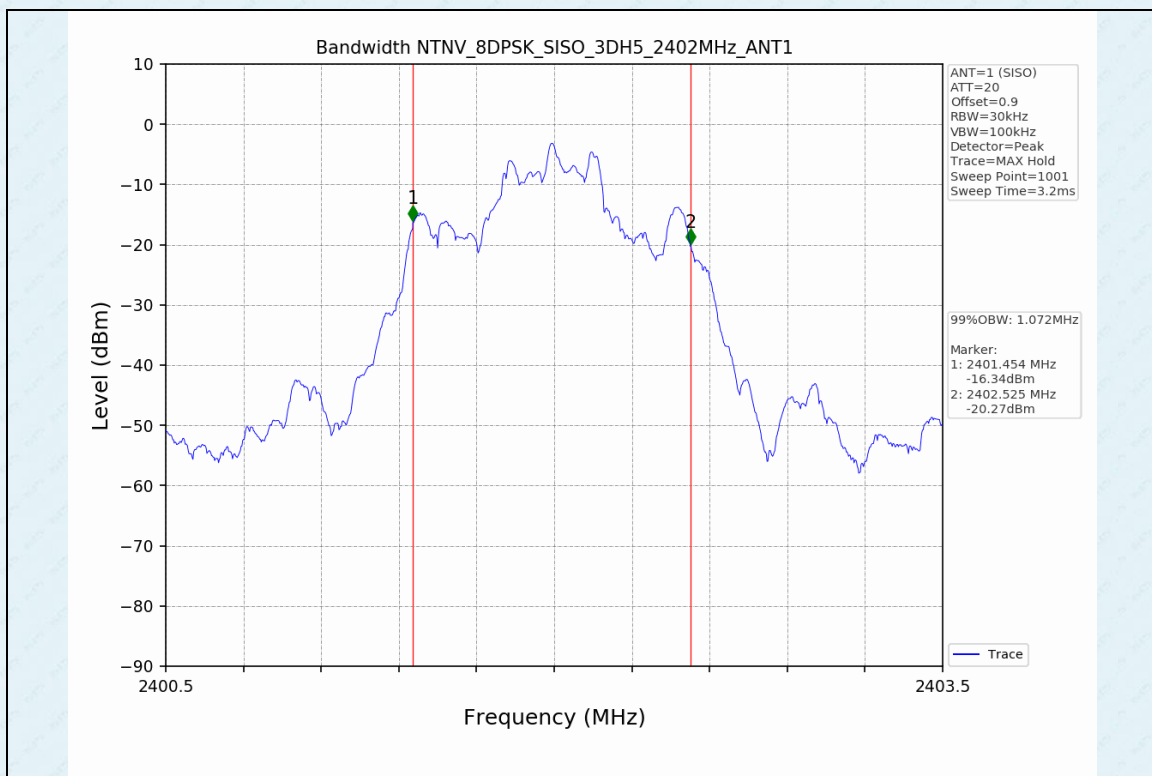
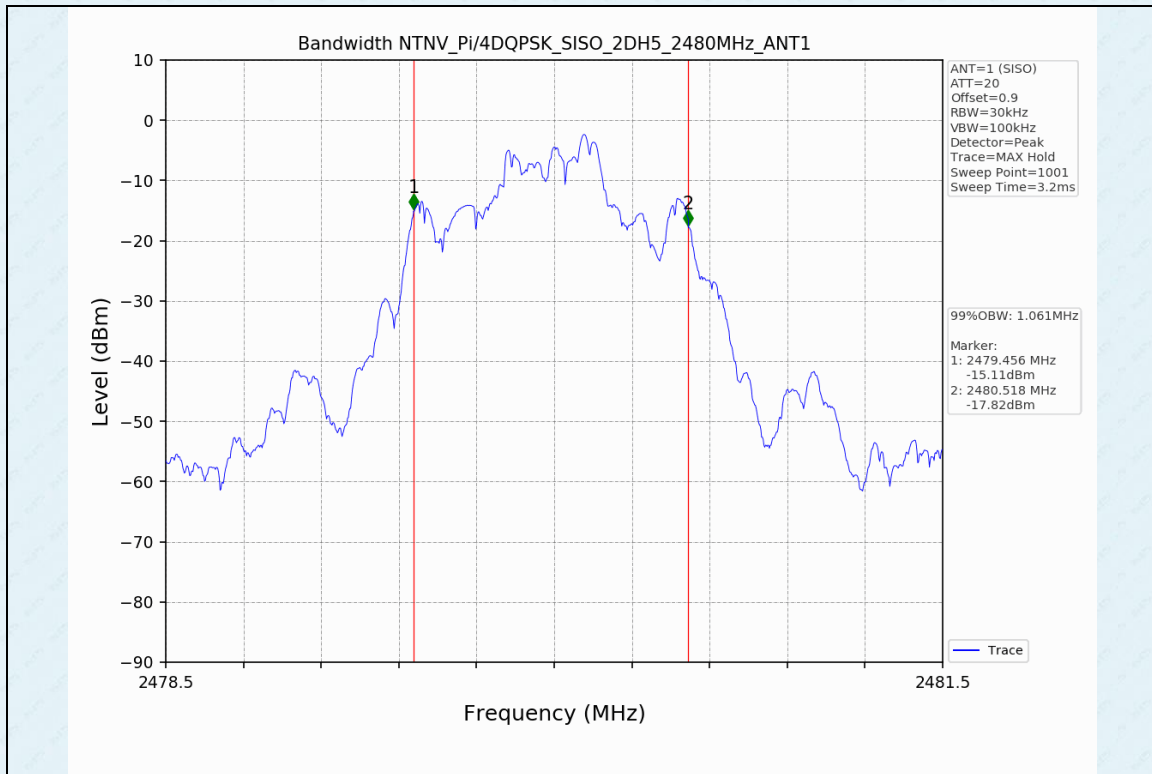


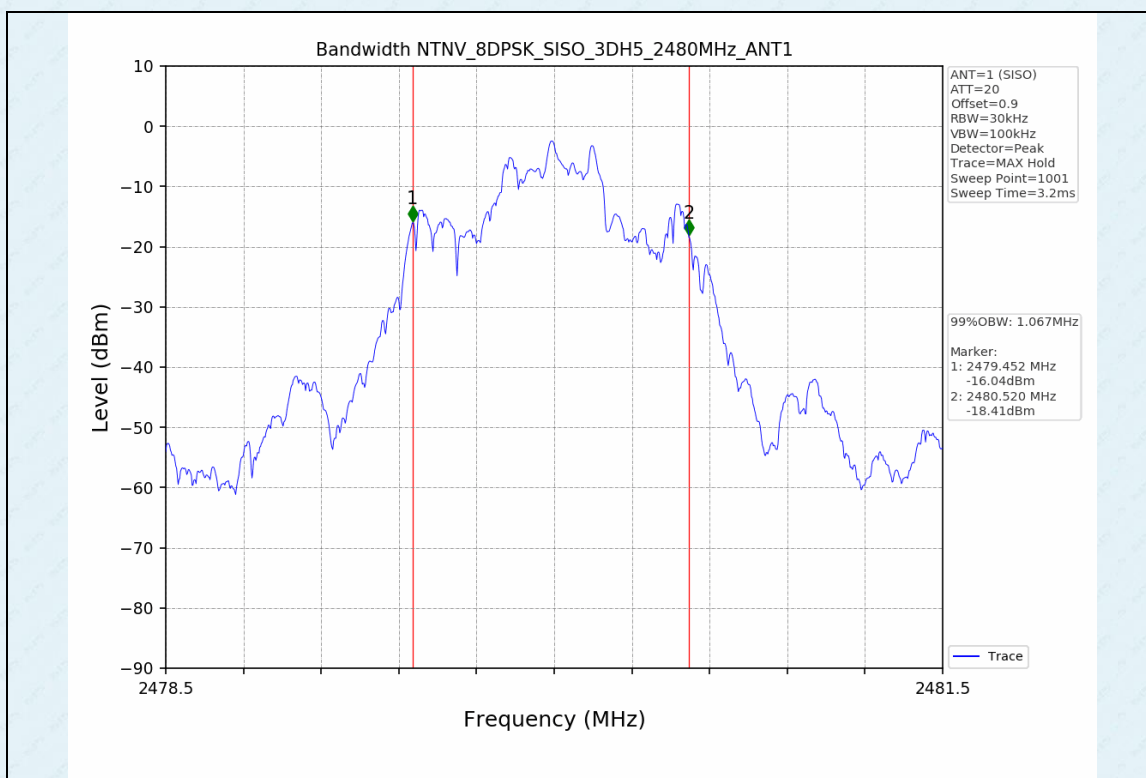
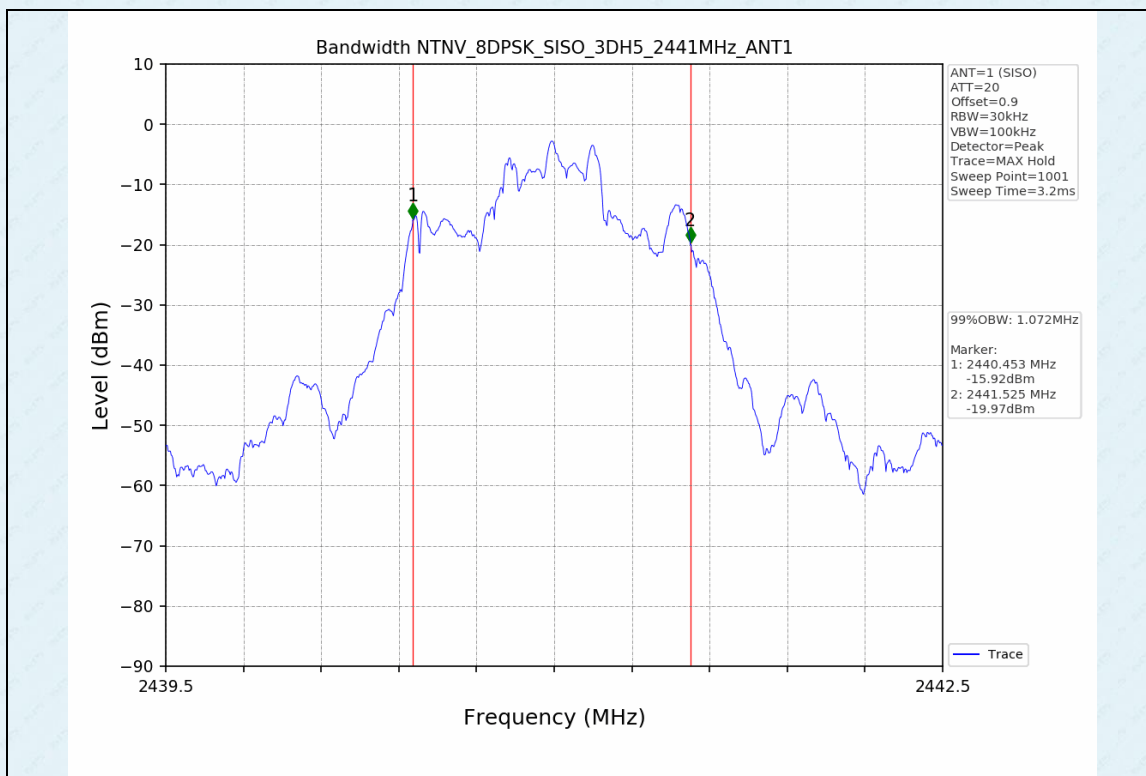
1.3 Test Graph - 99% Occupied Bandwidth









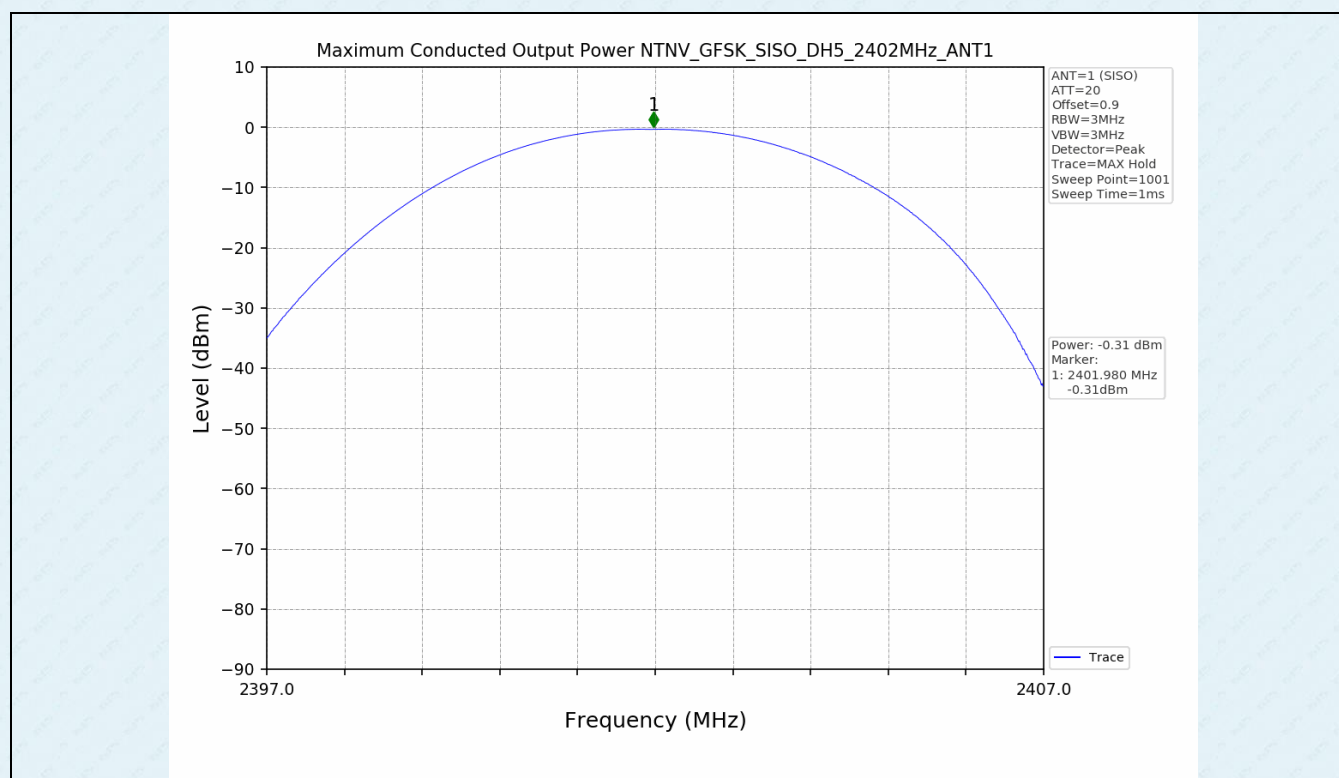


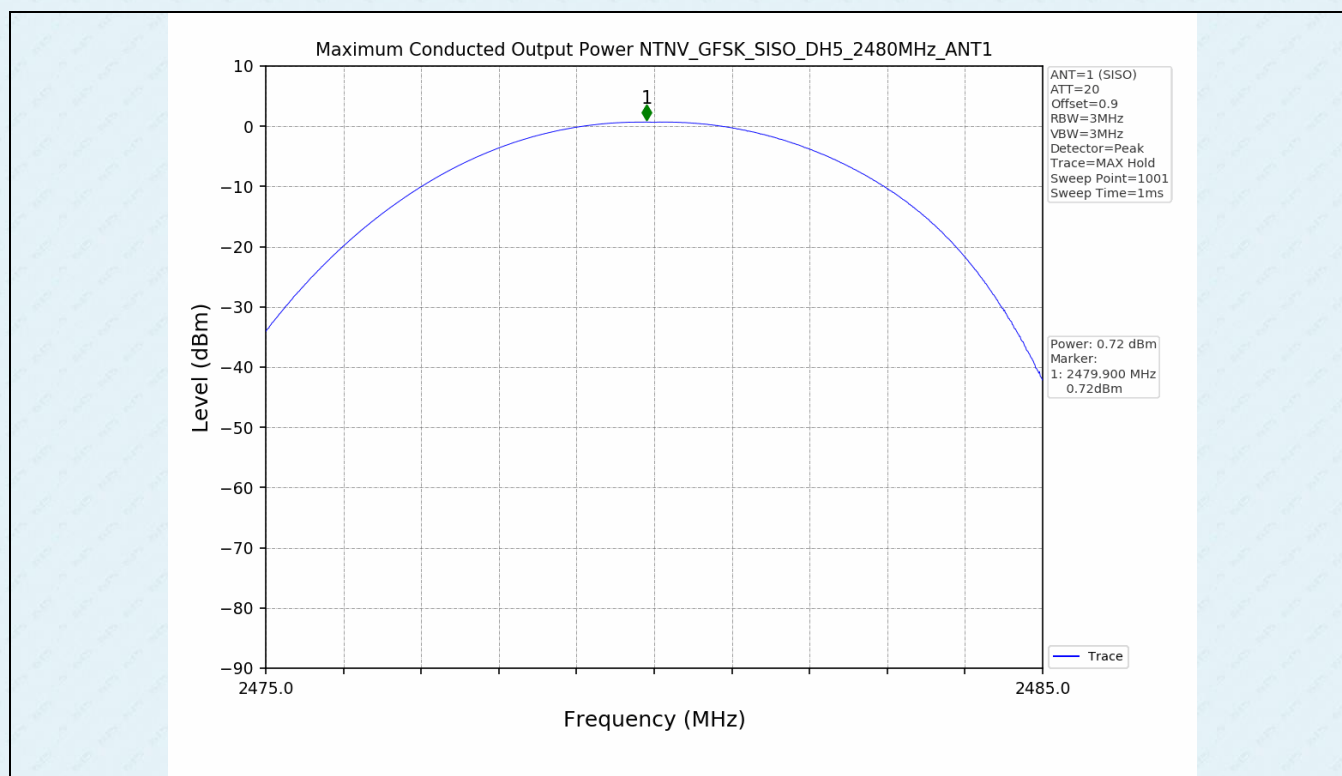
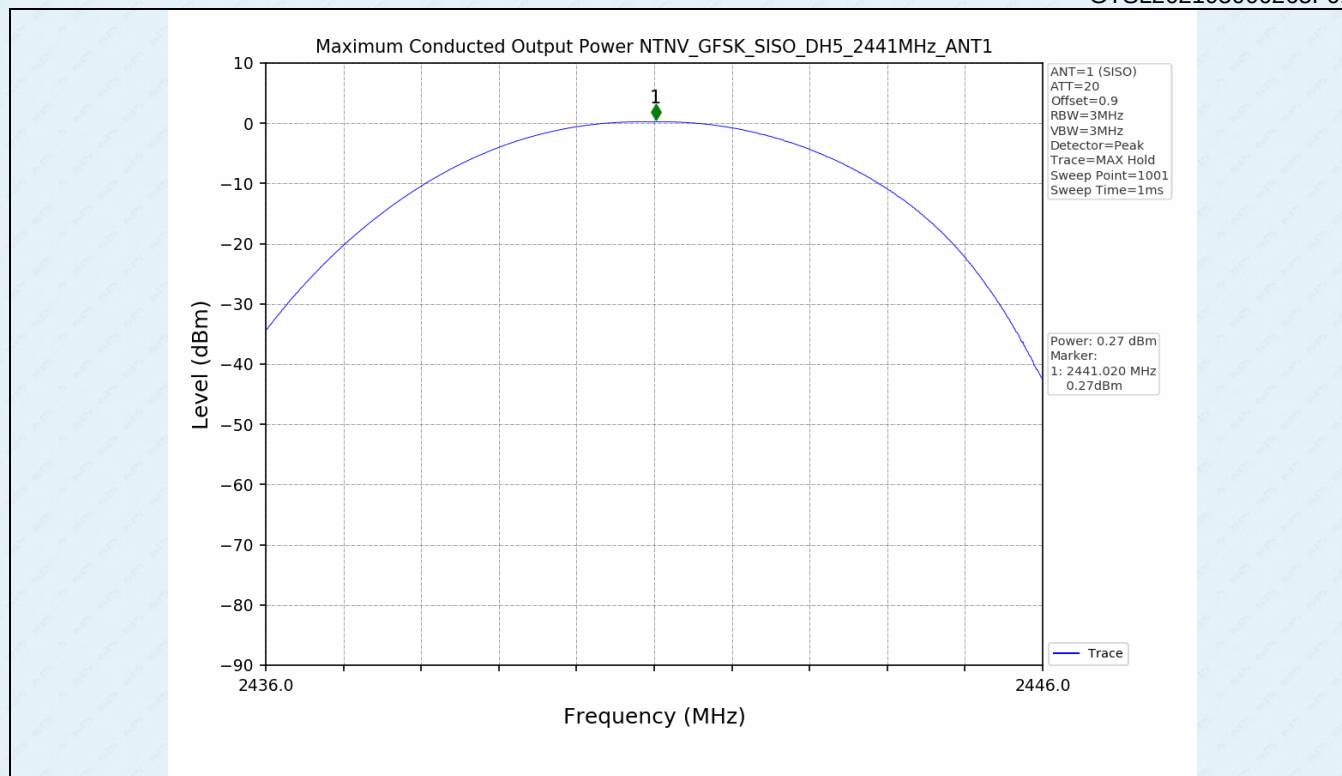
2. Maximum Conducted Output Power

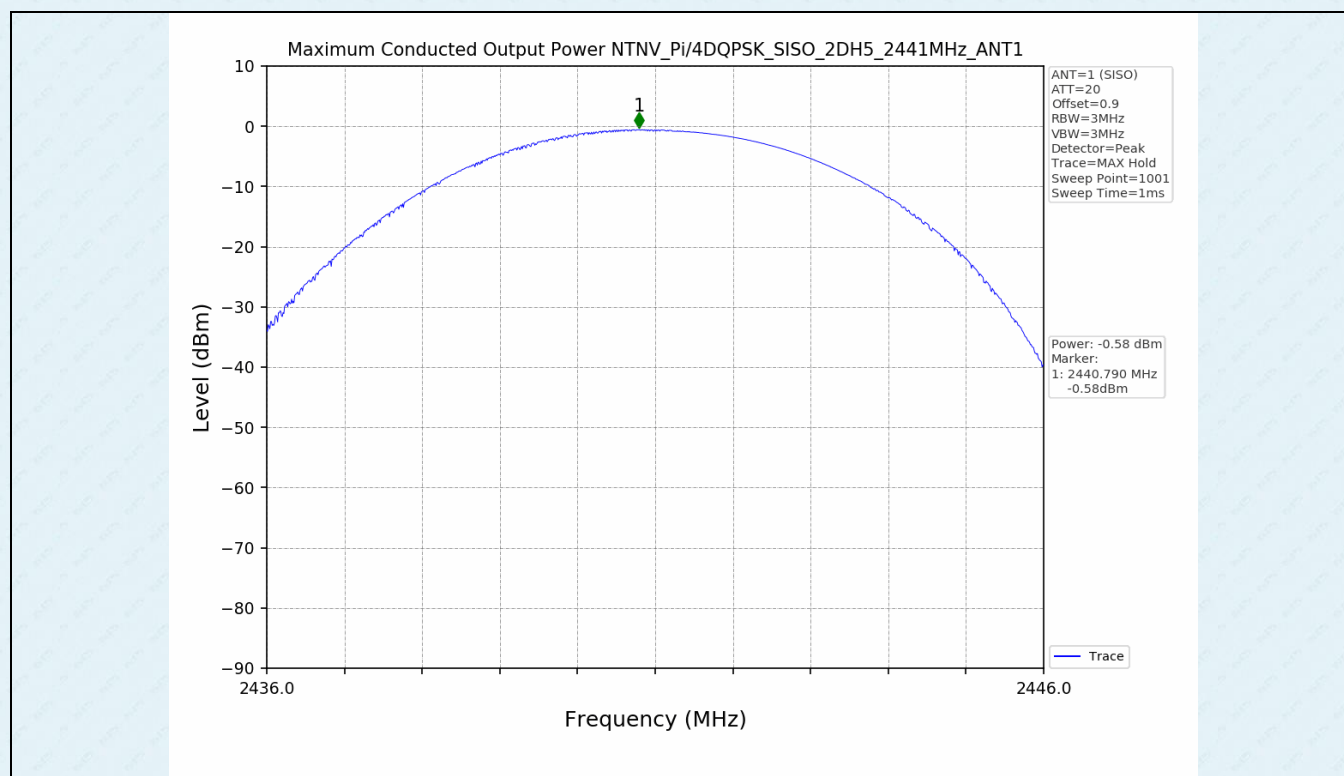
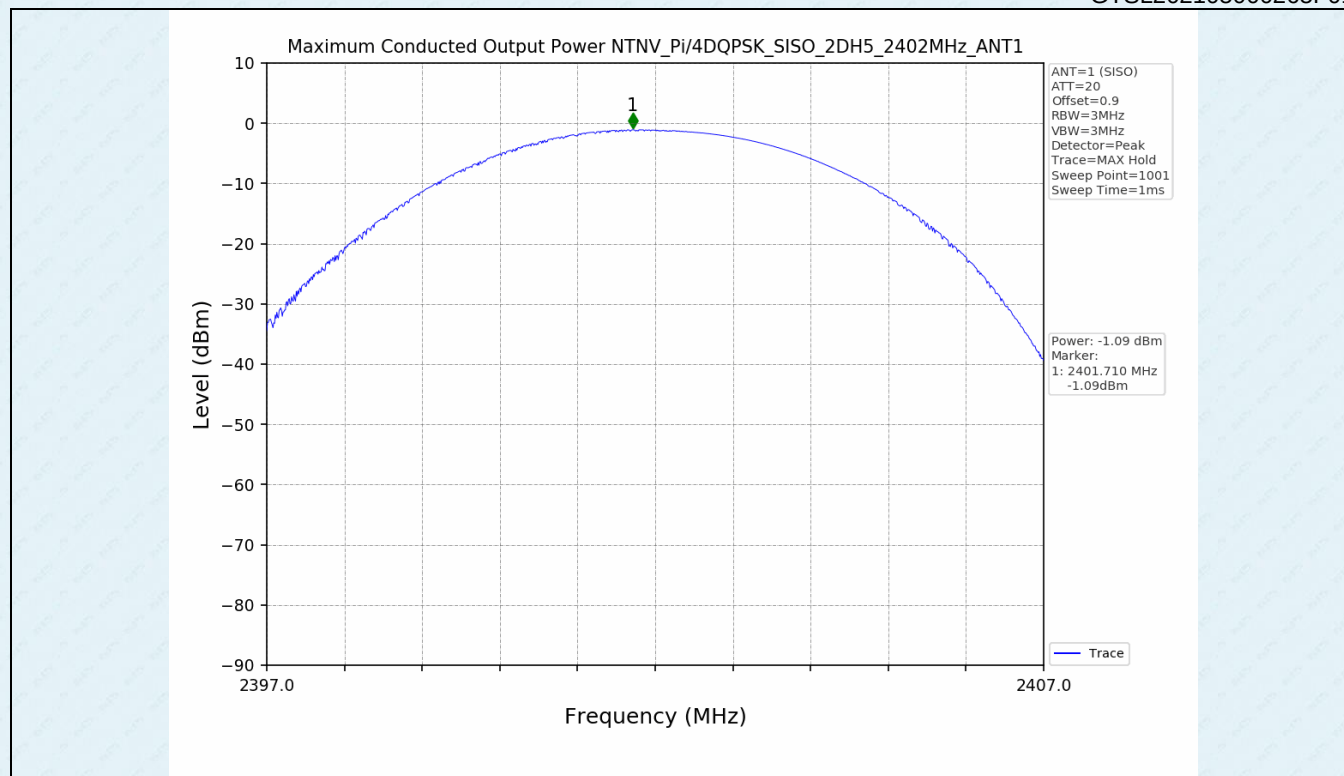
2.1 Test Result

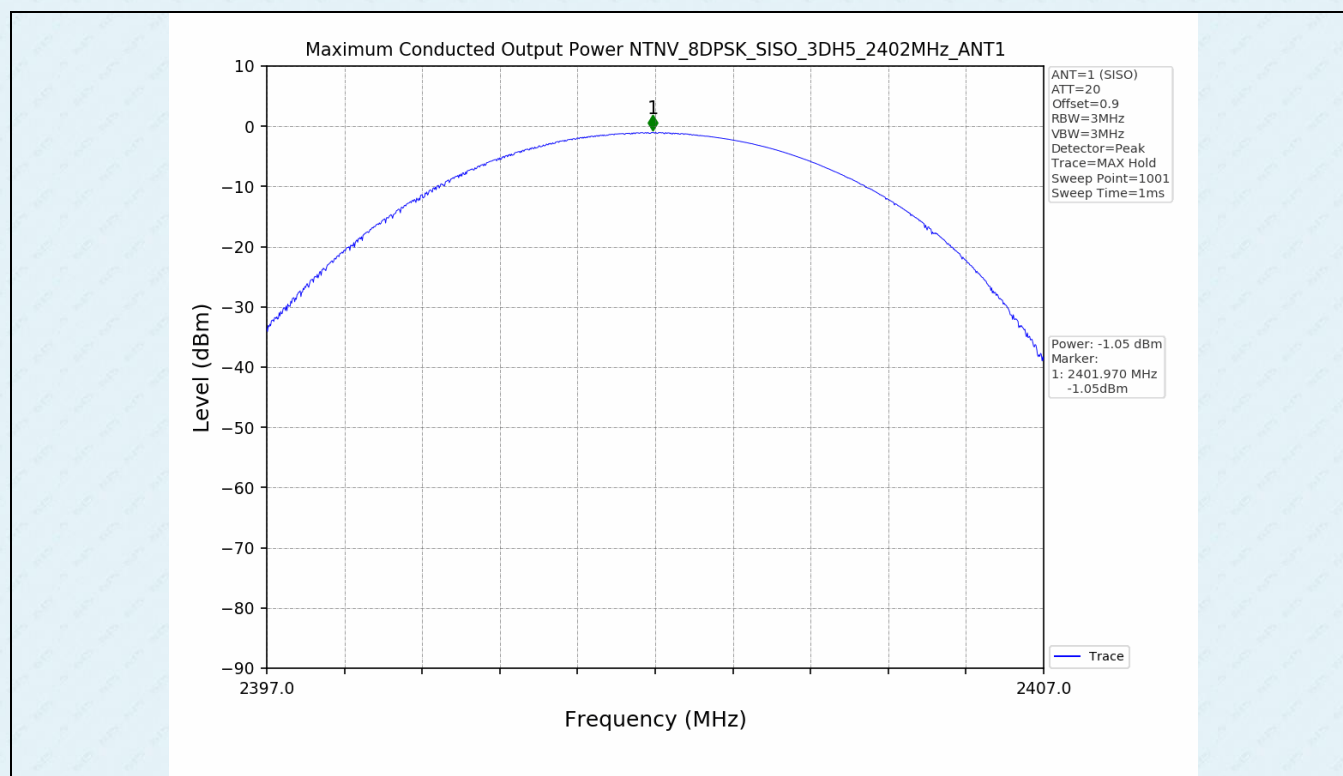
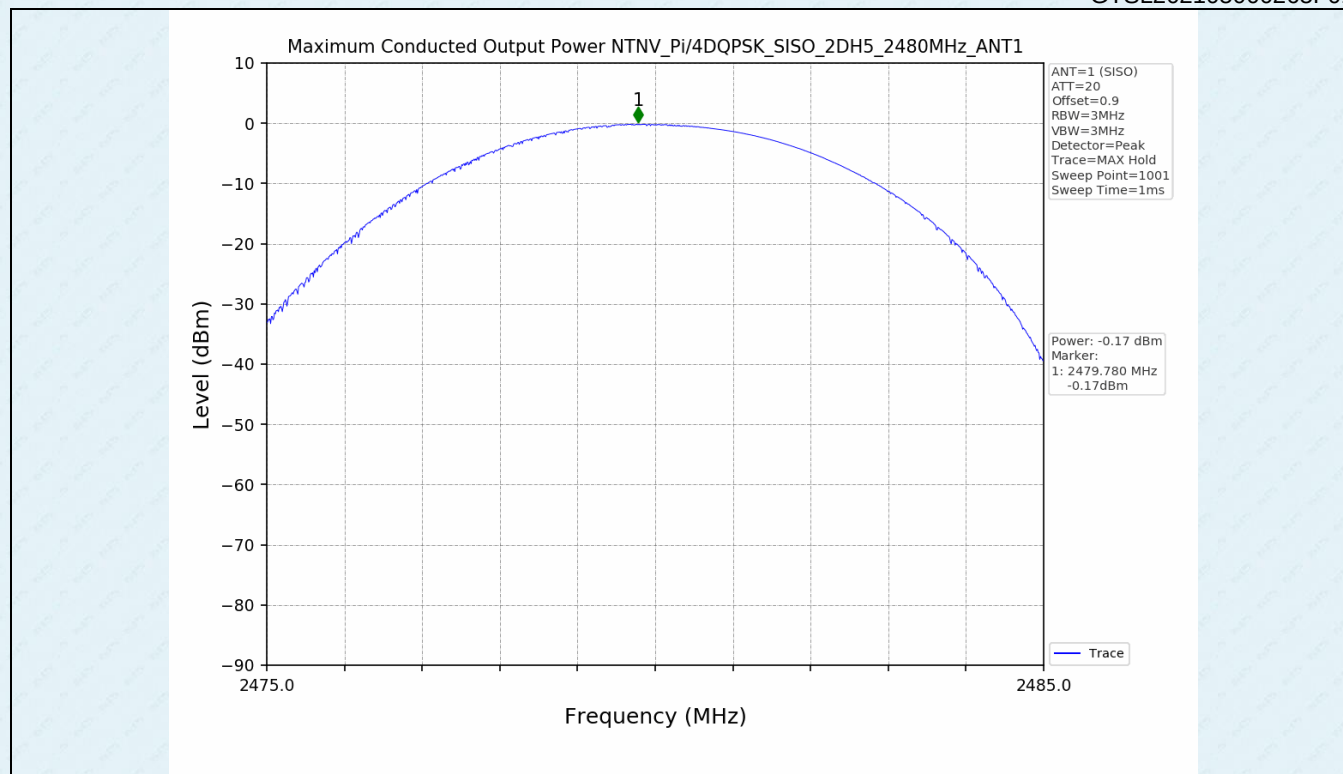
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	-0.31	30	PASS
	2441	SISO	0.27	30	PASS
	2480	SISO	0.72	30	PASS
Pi/4DQPSK	2402	SISO	-1.09	20.97	PASS
	2441	SISO	-0.58	20.97	PASS
	2480	SISO	-0.17	20.97	PASS
8DPSK	2402	SISO	-1.05	20.97	PASS
	2441	SISO	-0.50	20.97	PASS
	2480	SISO	-0.07	20.97	PASS

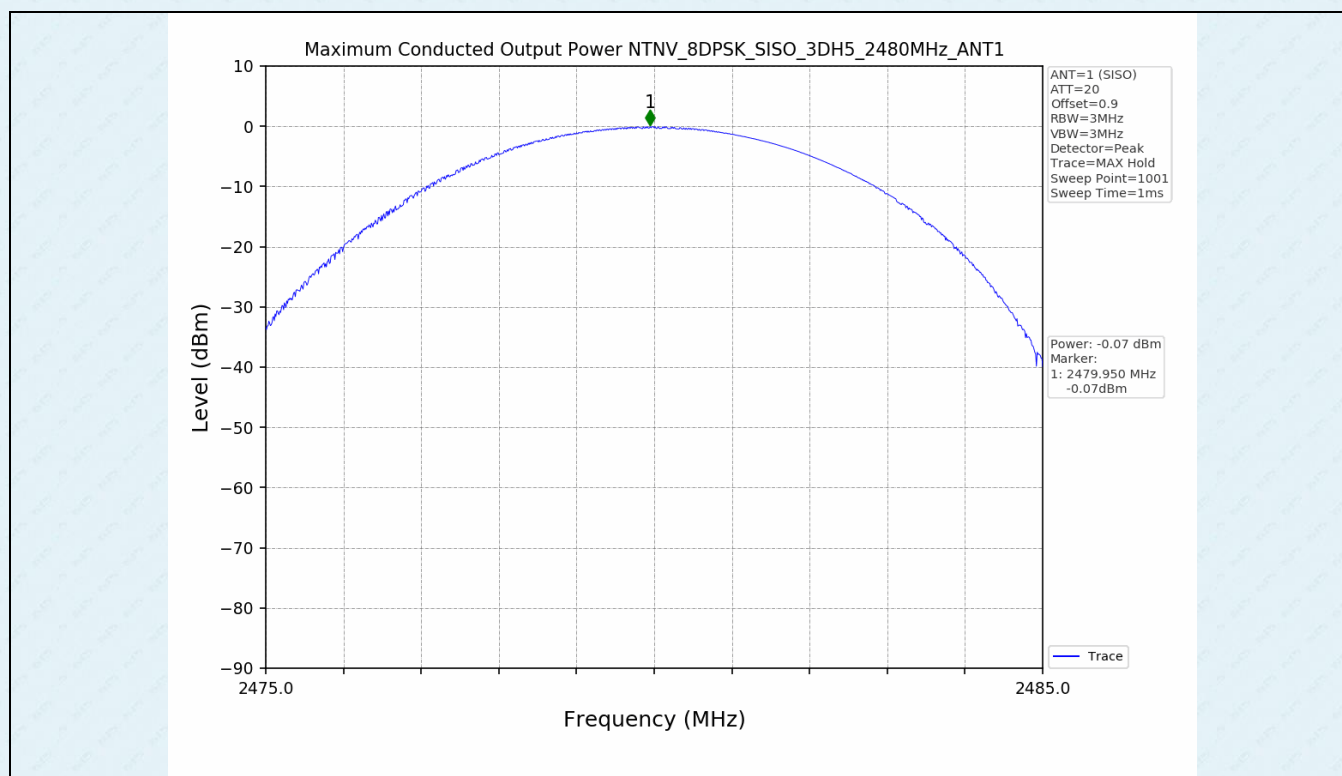
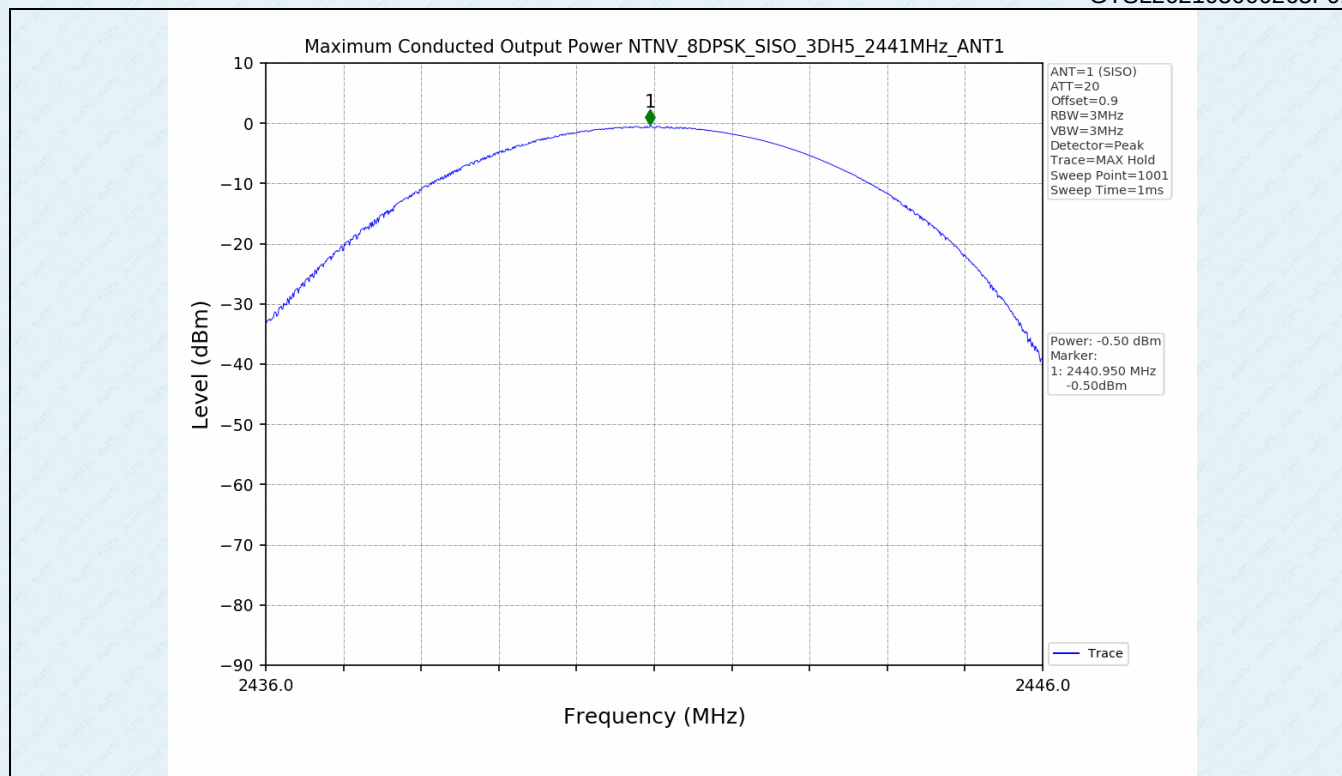
2.2 Test Graph









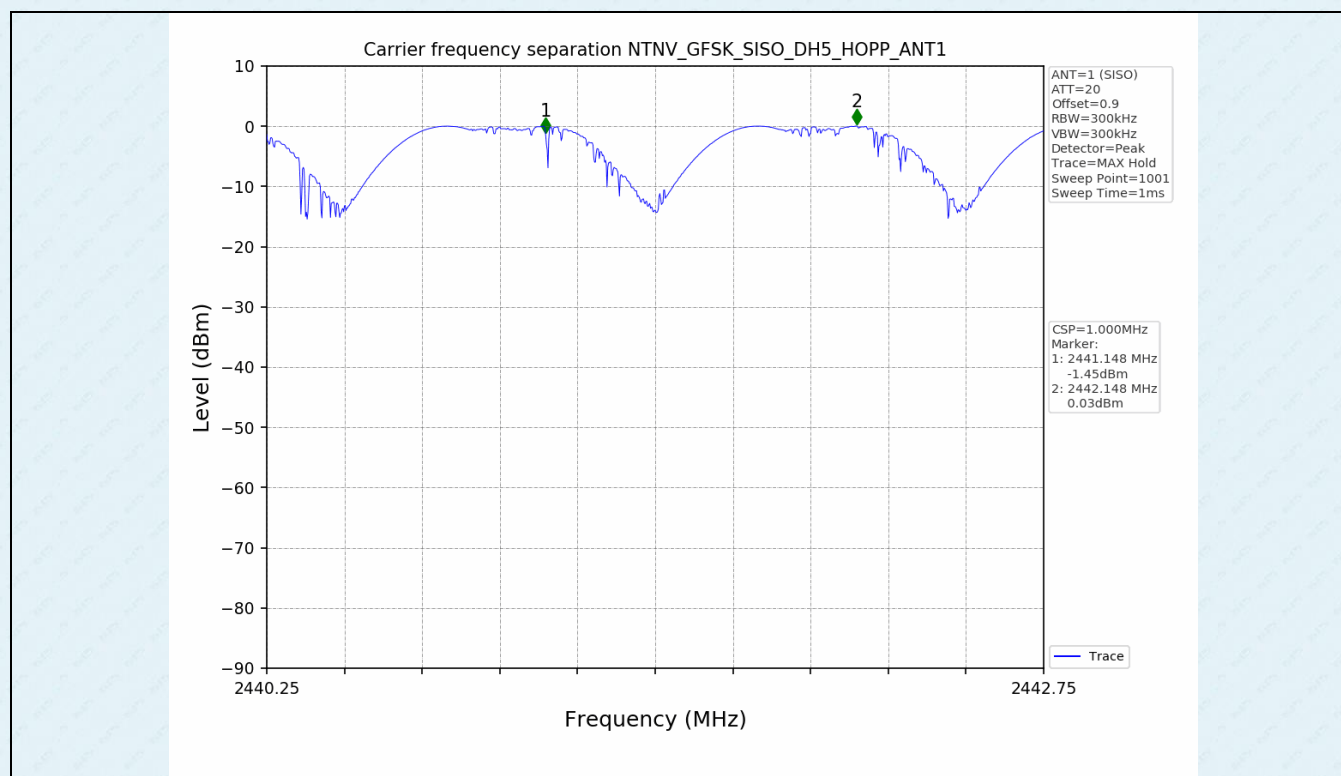


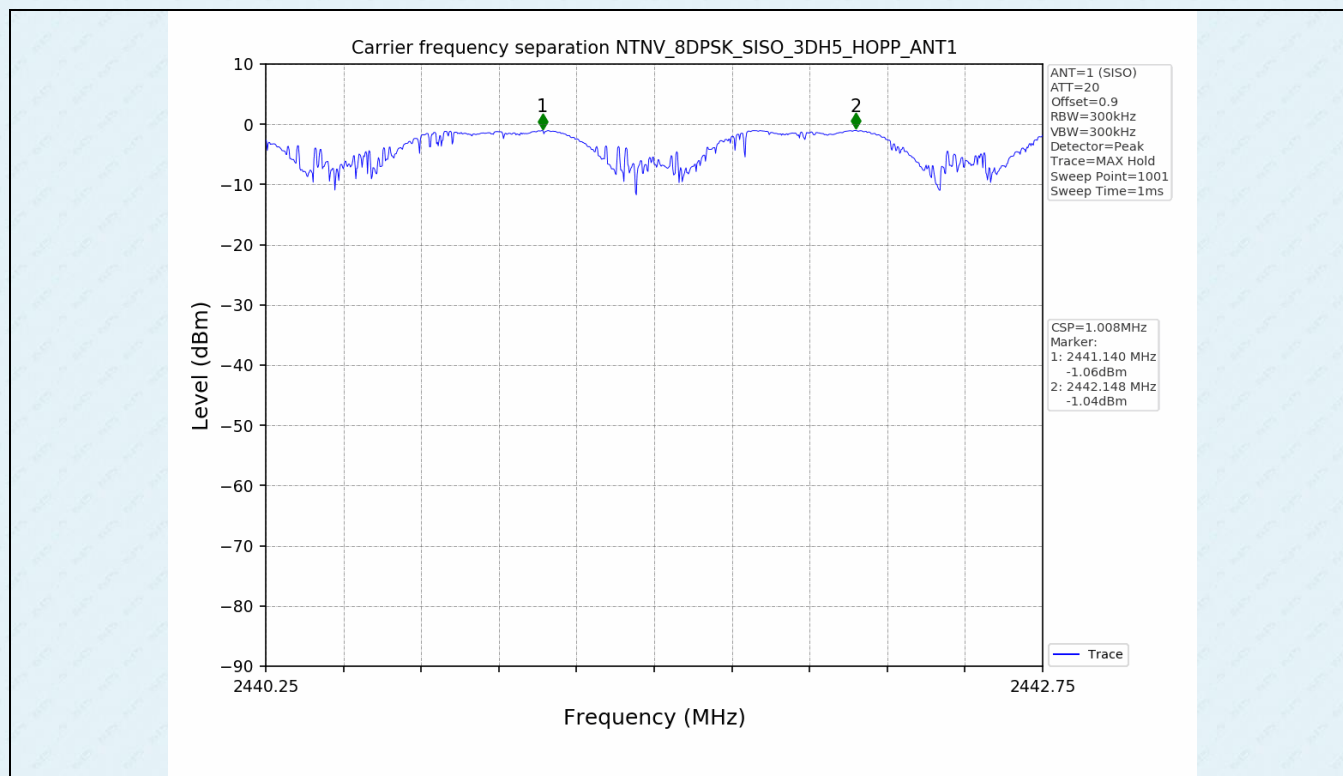
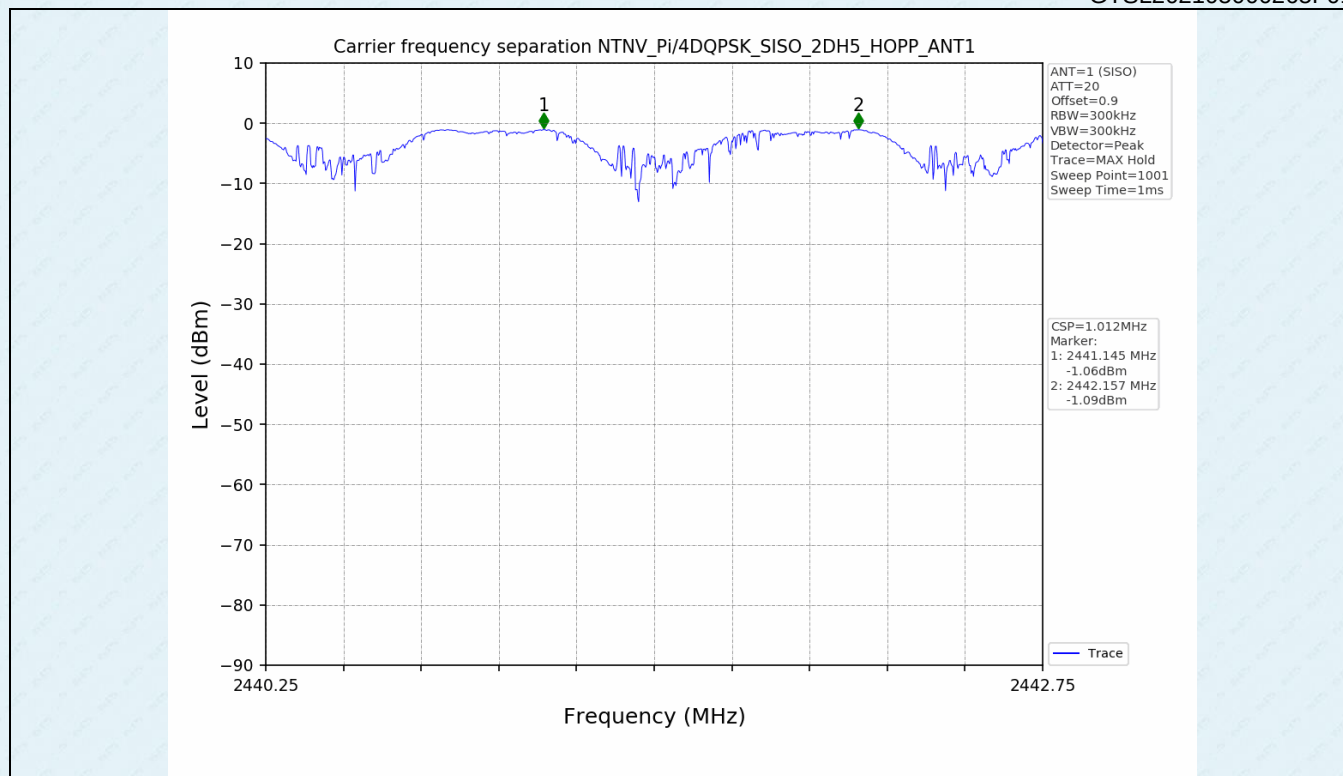
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	0.824	≥ 0.824	PASS
Pi/4DQPSK	SISO	1	1.012	1.117	≥ 0.745	PASS
8DPSK	SISO	1	1.008	1.153	≥ 0.769	PASS

3.2 Test Graph



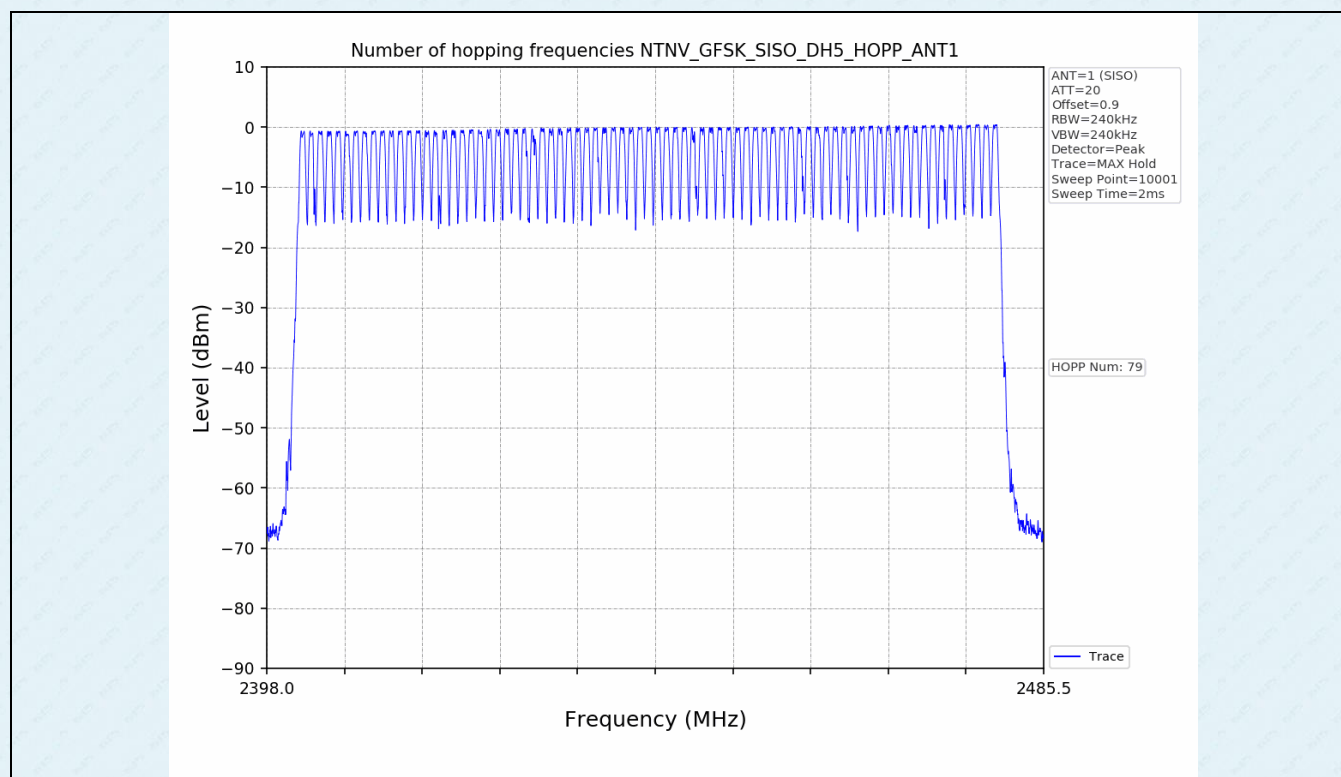


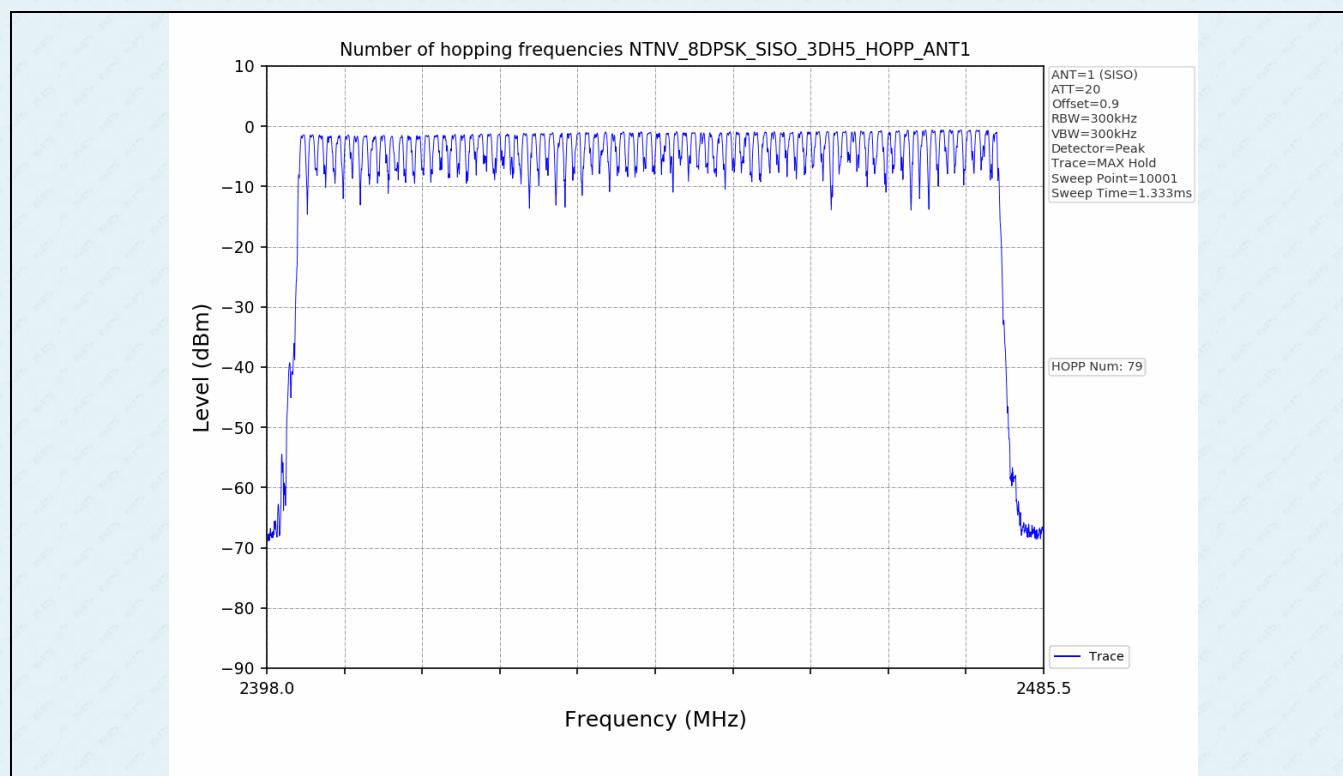
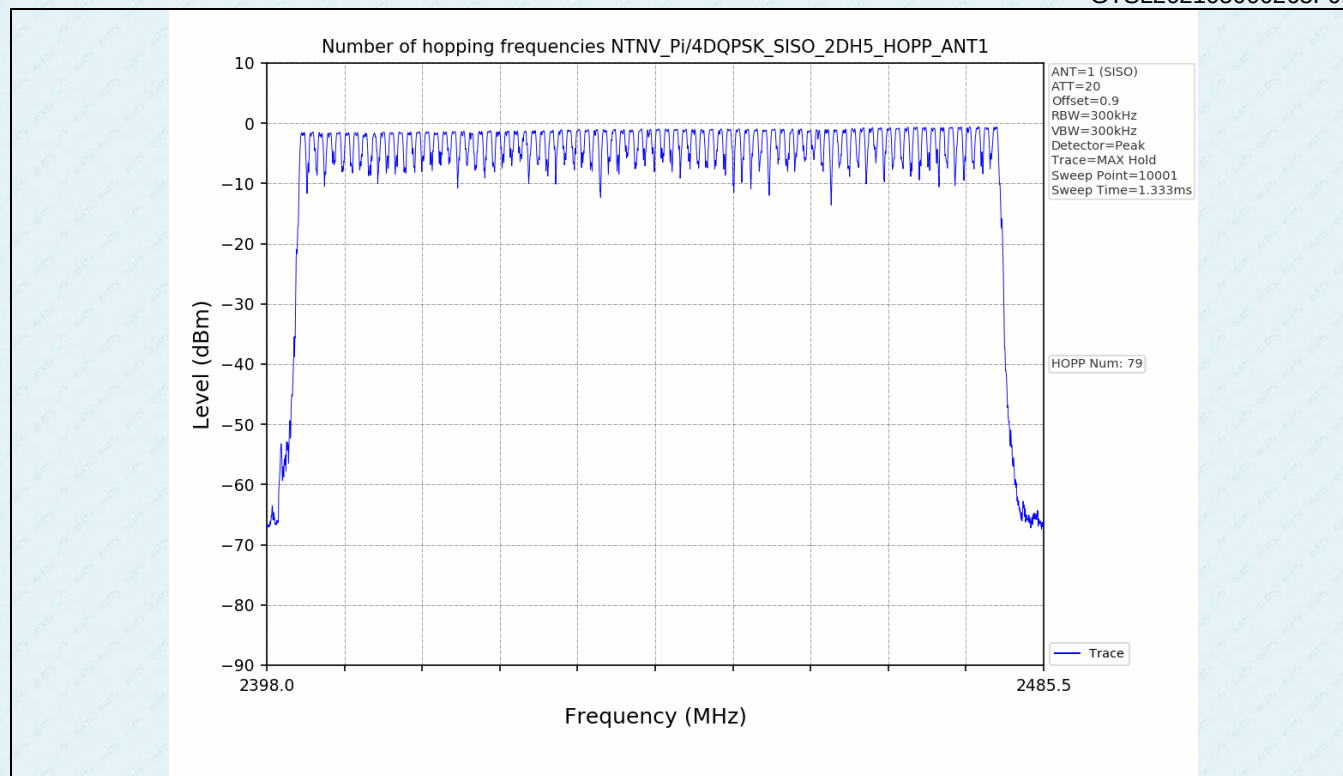
4. Number of hopping frequencies

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



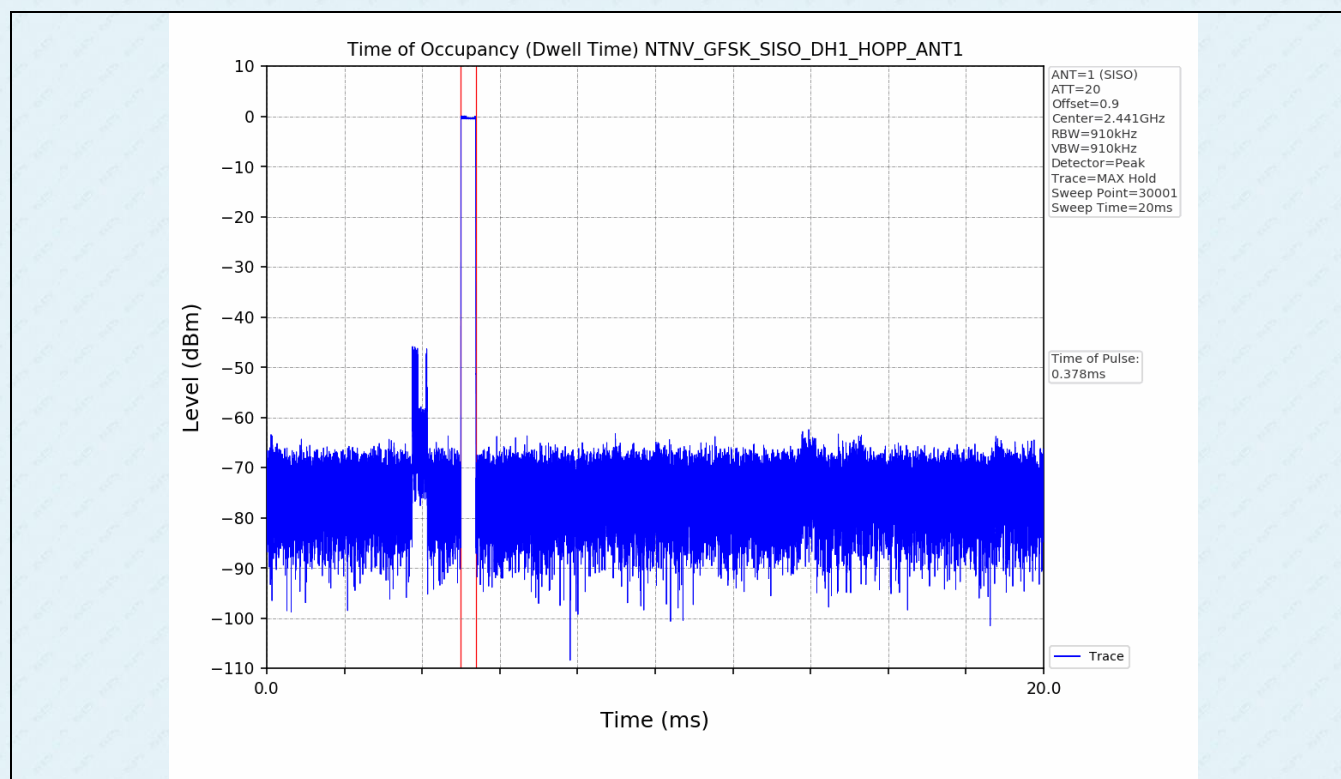


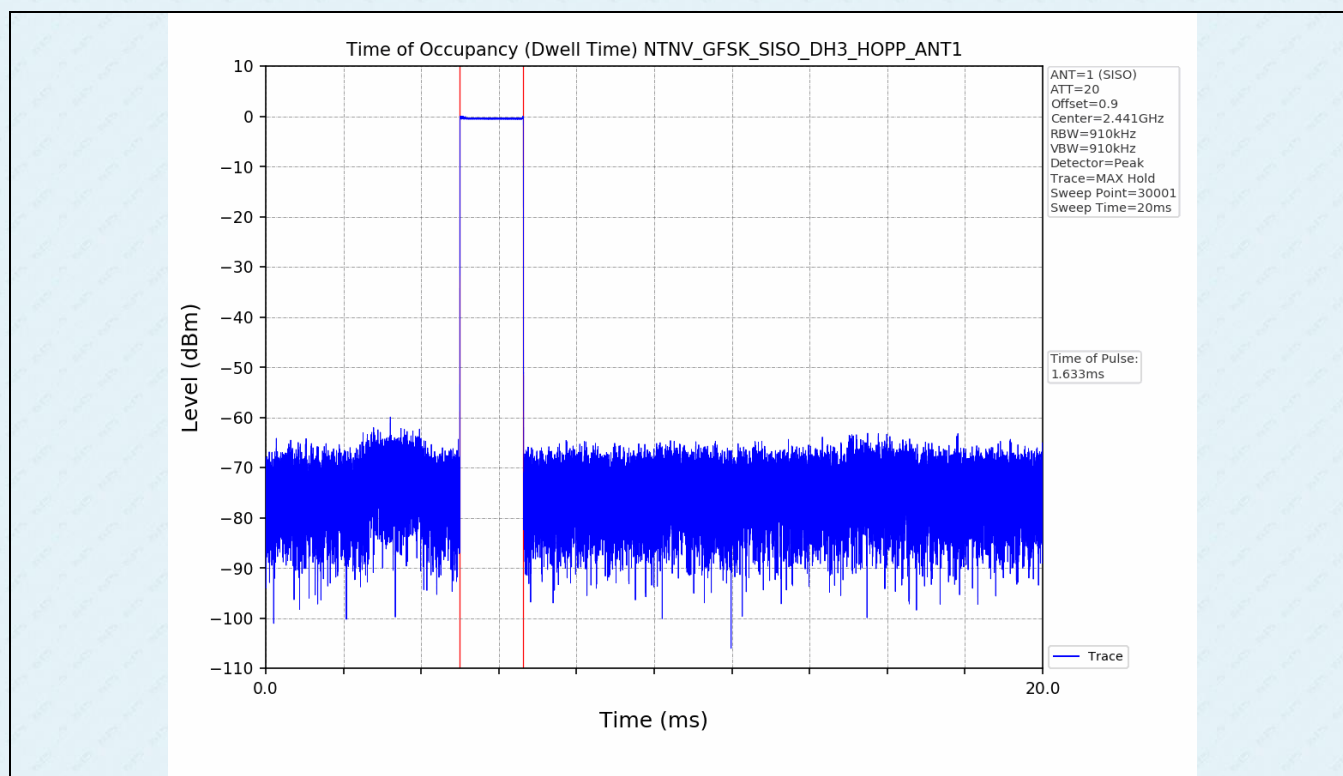
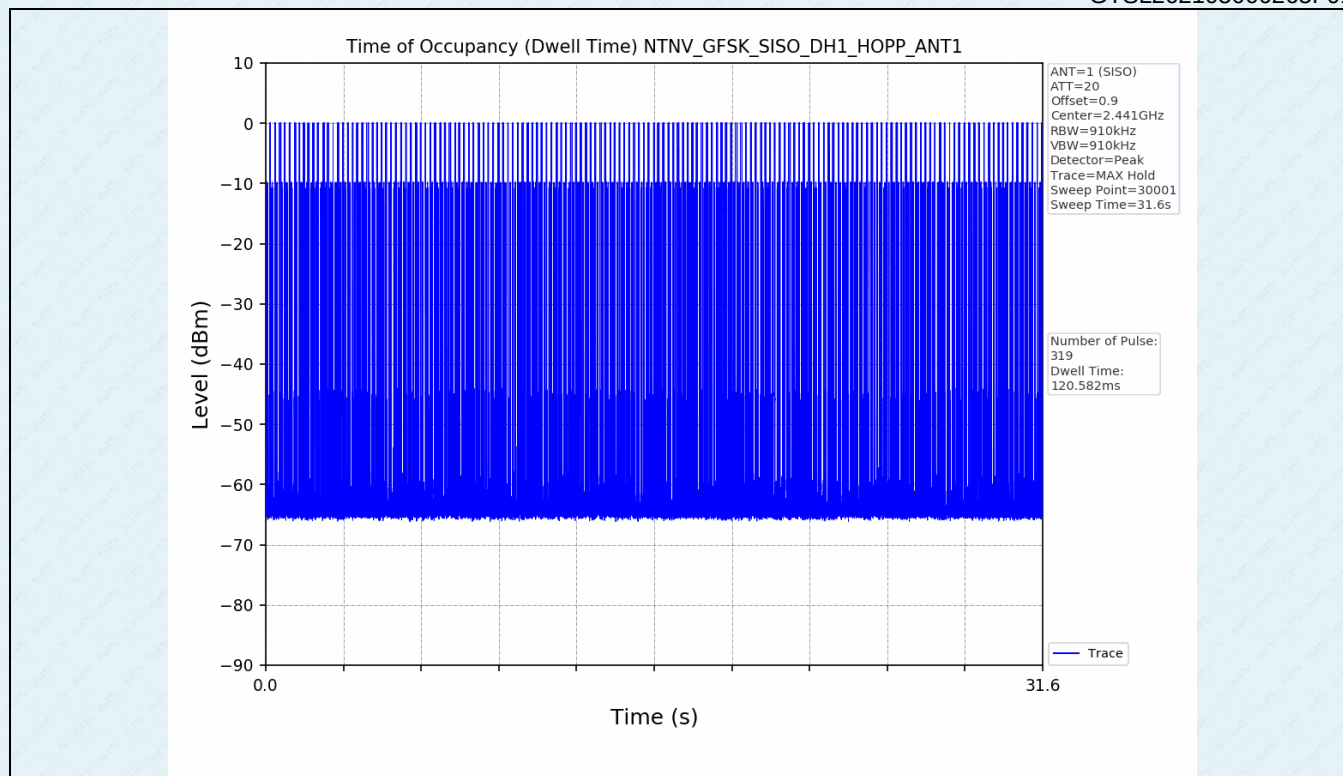
5. Time of occupancy (dwell time)

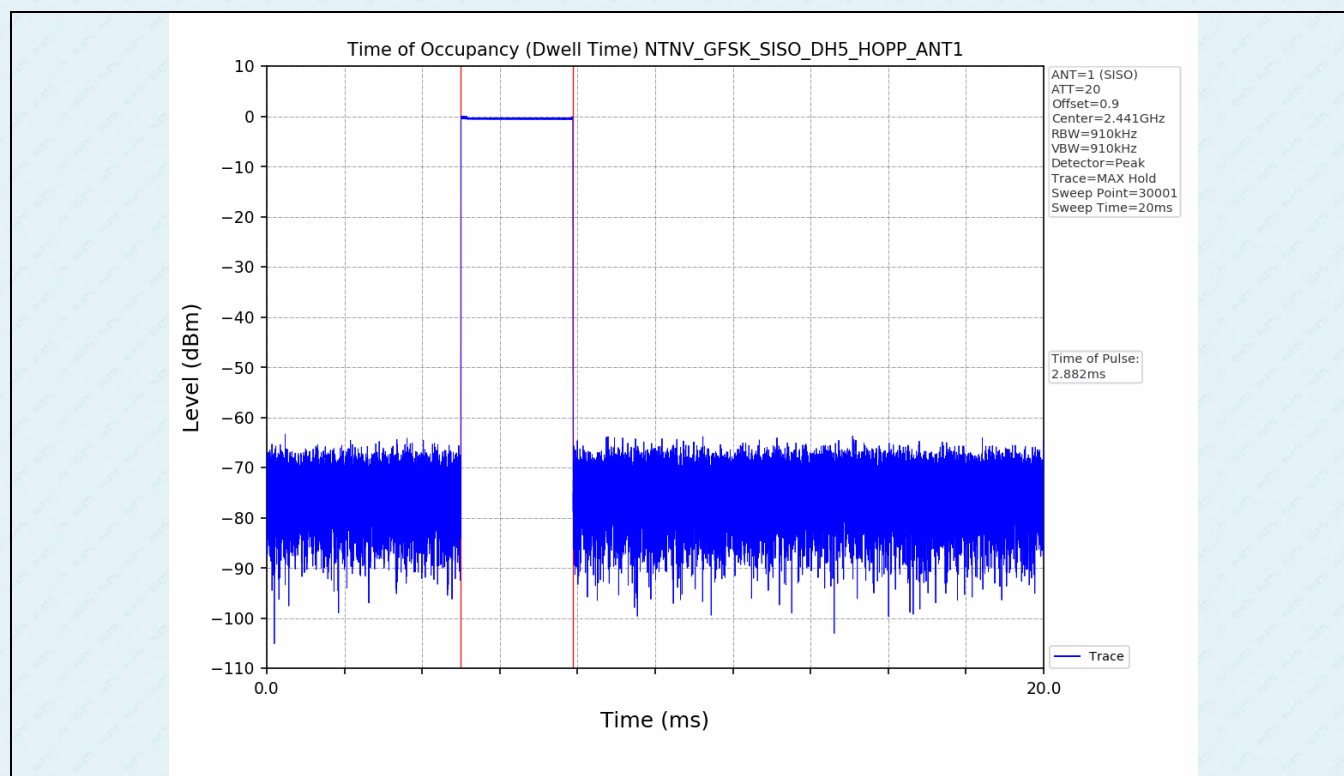
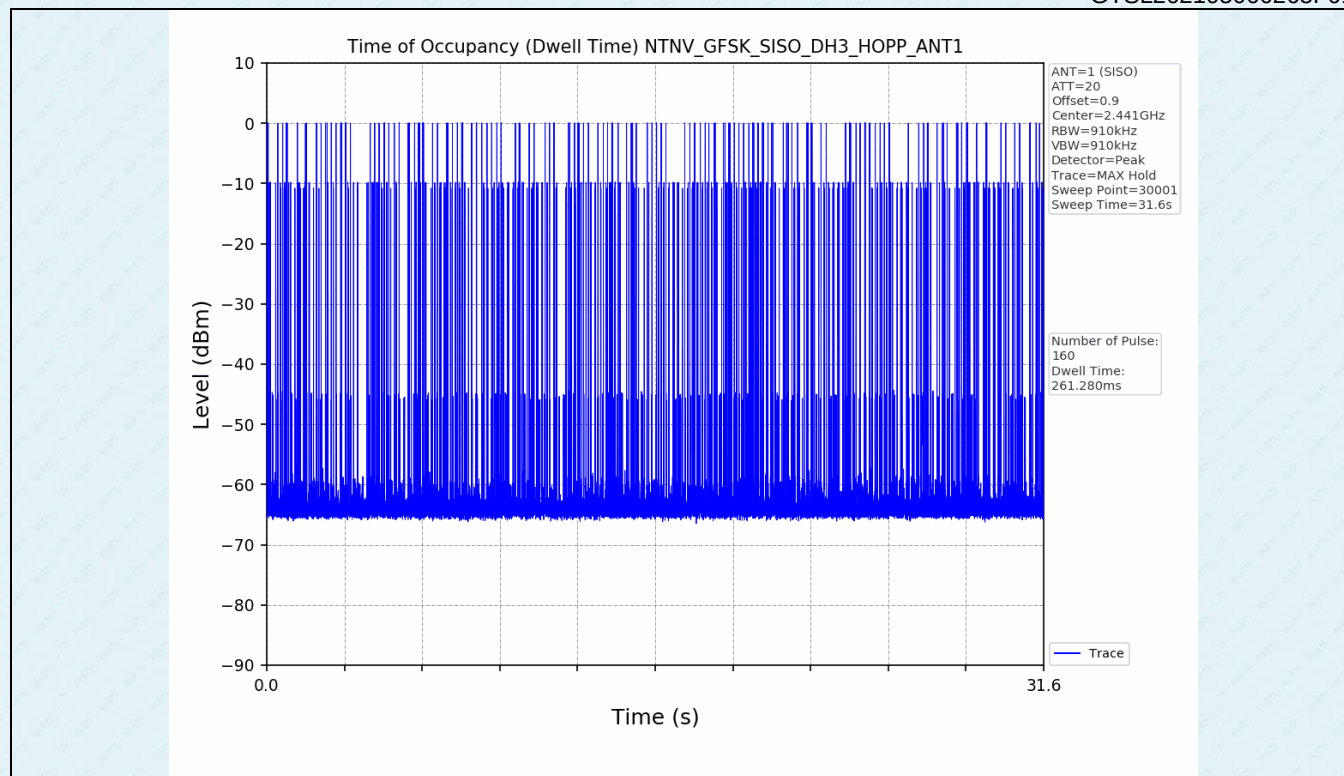
5.1 Test Result

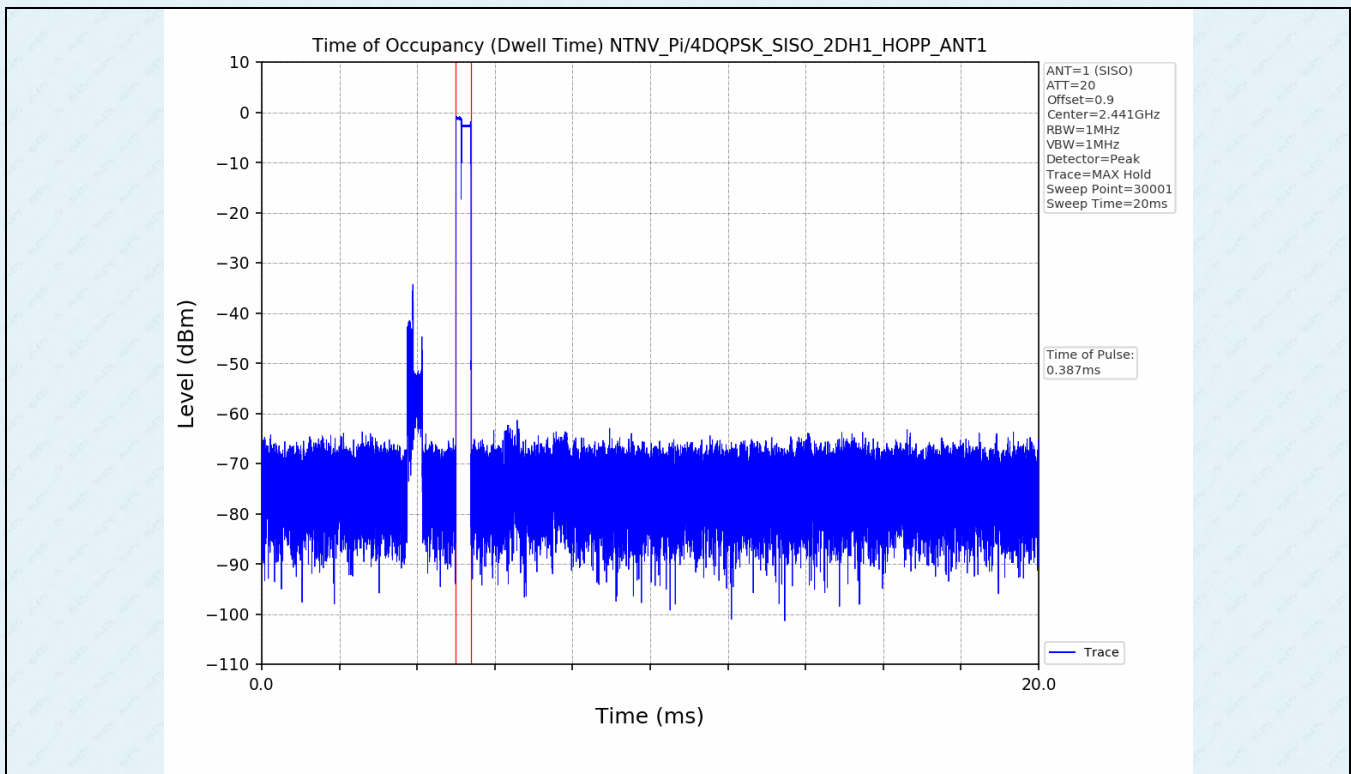
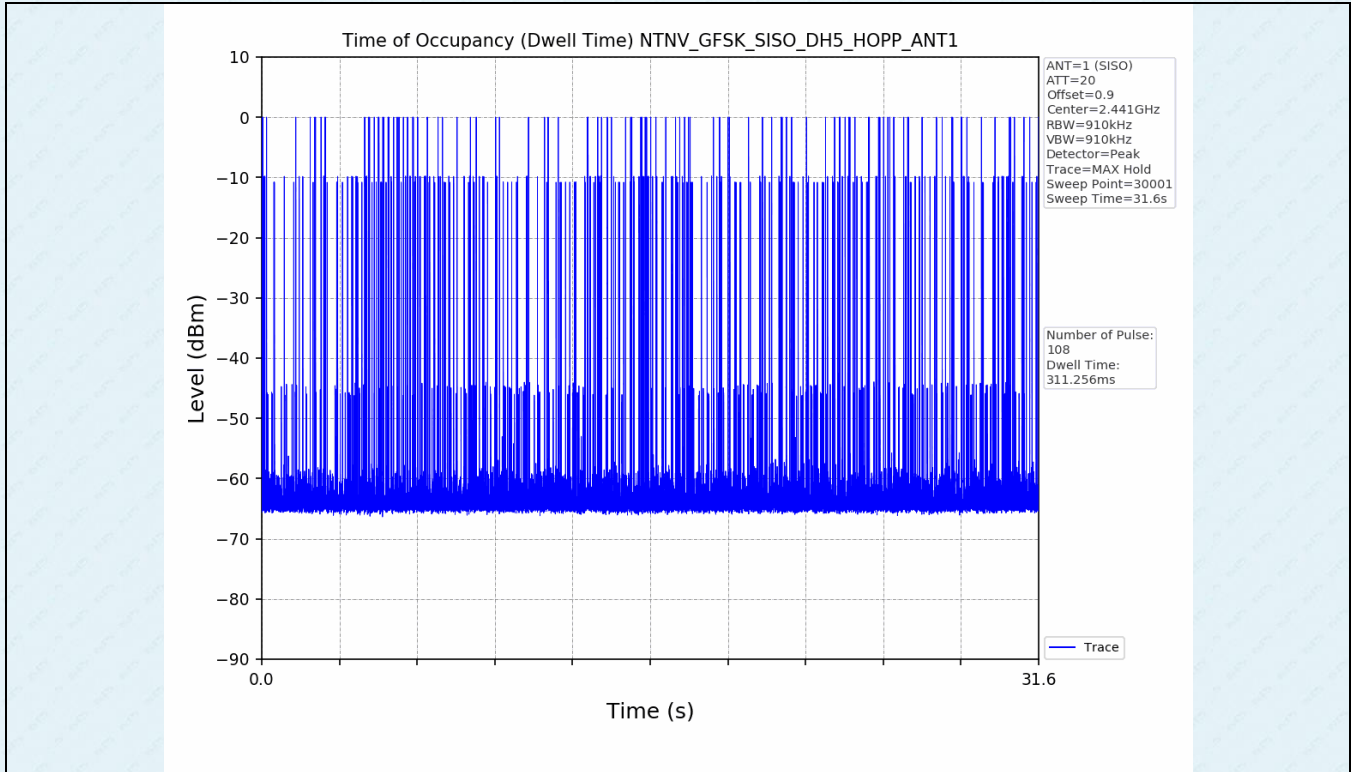
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.378	31.6	319	120.582	≤400	PASS
	DH3	SISO	1	1.633	31.6	160	261.280	≤400	PASS
	DH5	SISO	1	2.882	31.6	108	311.256	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.387	31.6	320	123.840	≤400	PASS
	2DH3	SISO	1	1.638	31.6	160	262.080	≤400	PASS
	2DH5	SISO	1	2.883	31.6	107	308.481	≤400	PASS
8DPSK	3DH1	SISO	1	0.387	31.6	320	123.840	≤400	PASS
	3DH3	SISO	1	1.638	31.6	160	262.080	≤400	PASS
	3DH5	SISO	1	2.889	31.6	111	320.679	≤400	PASS

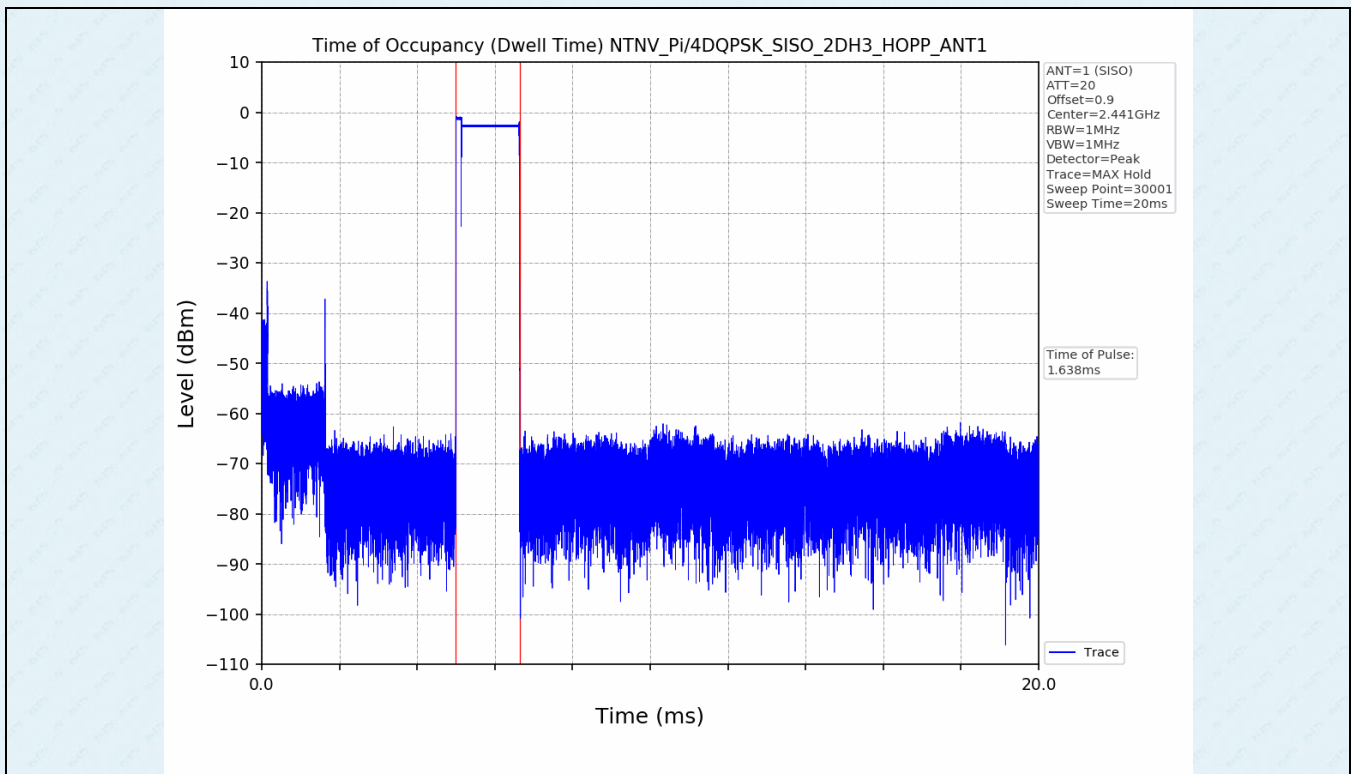
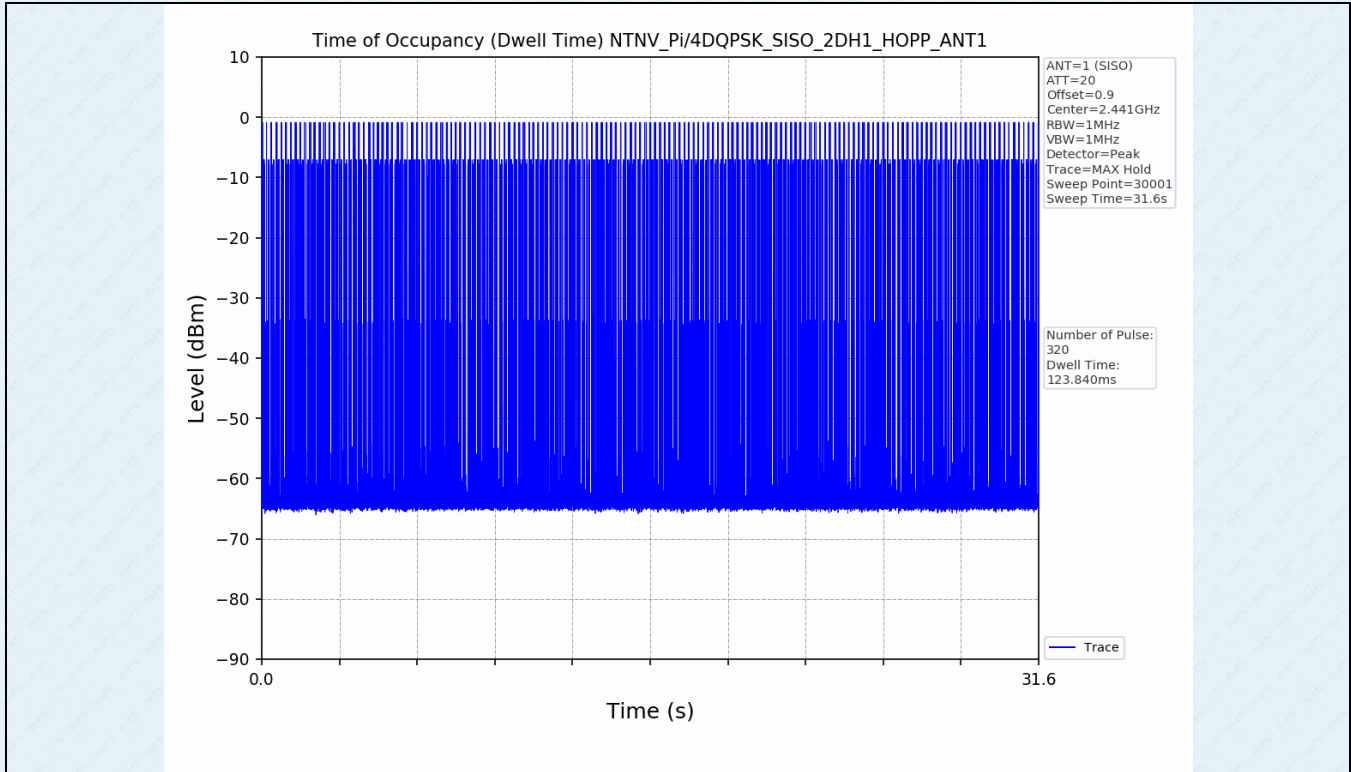
5.2 Test Graph

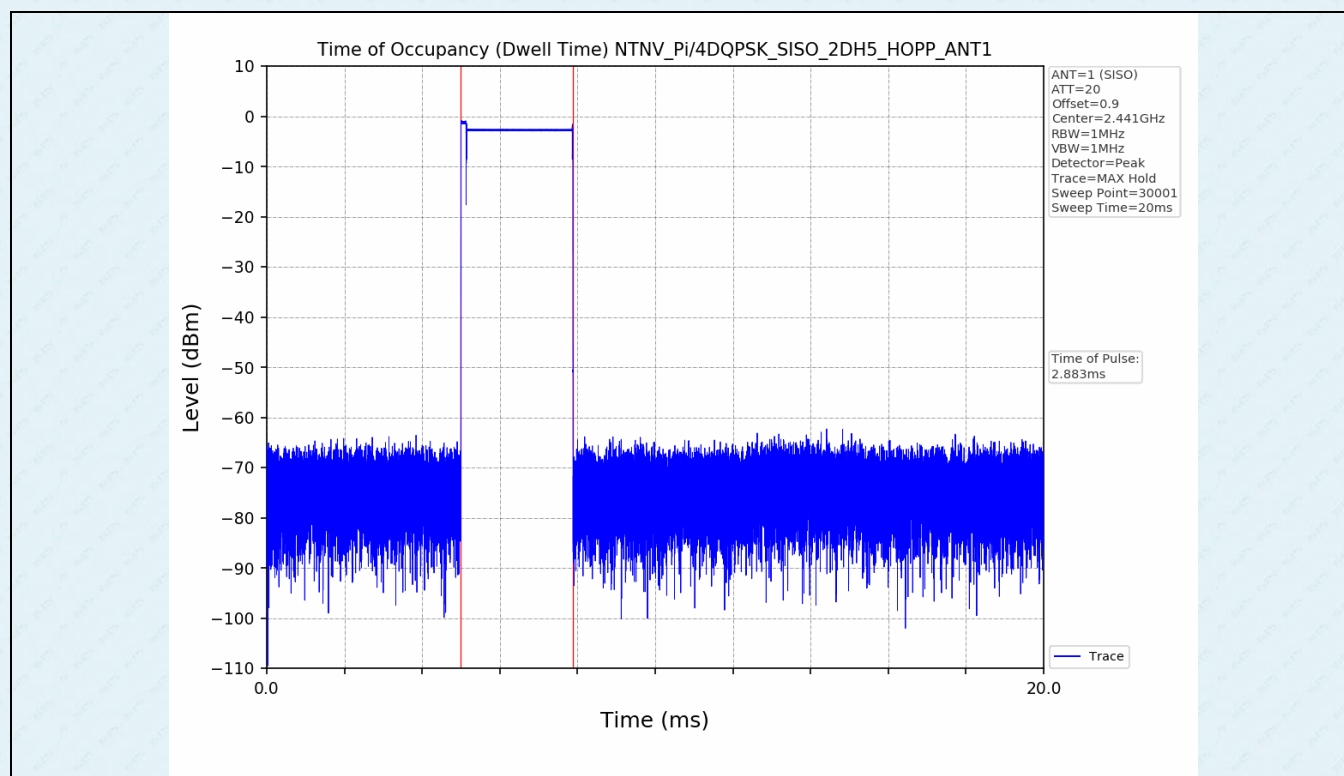
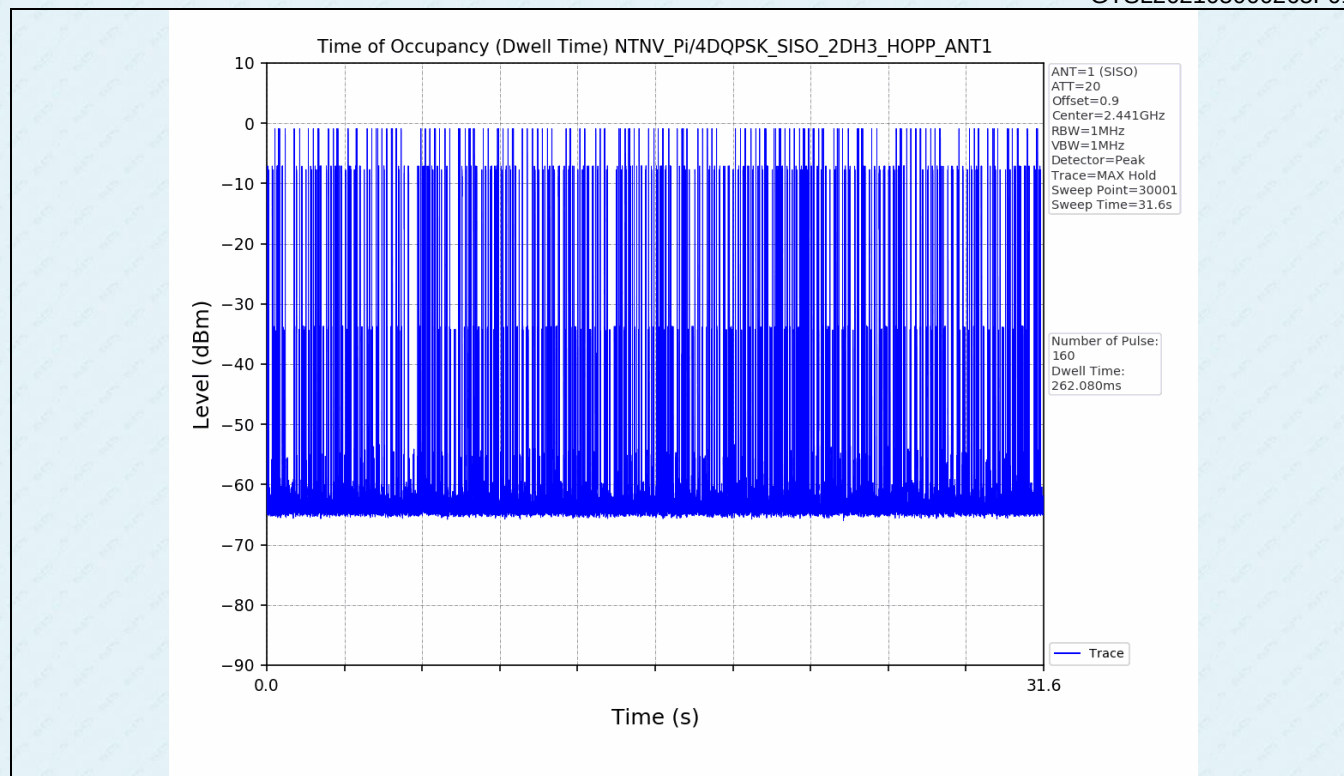


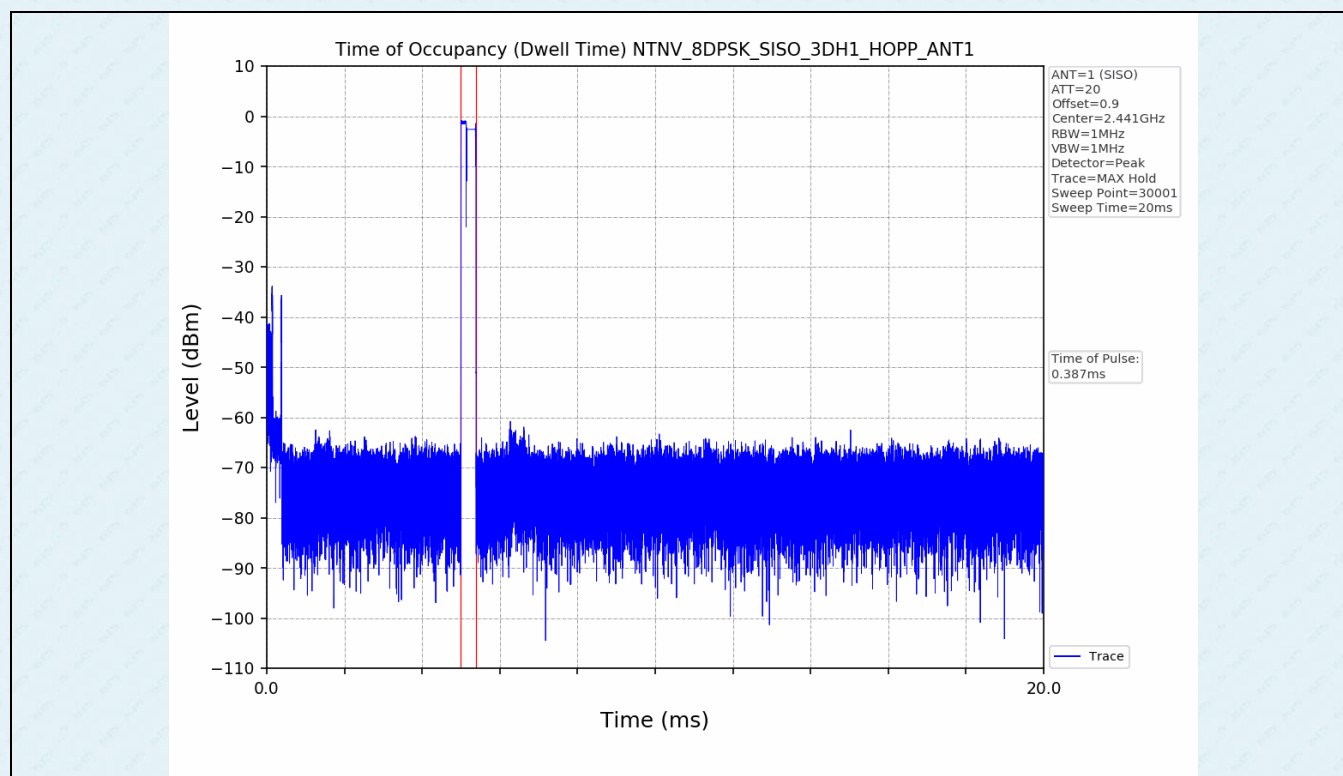
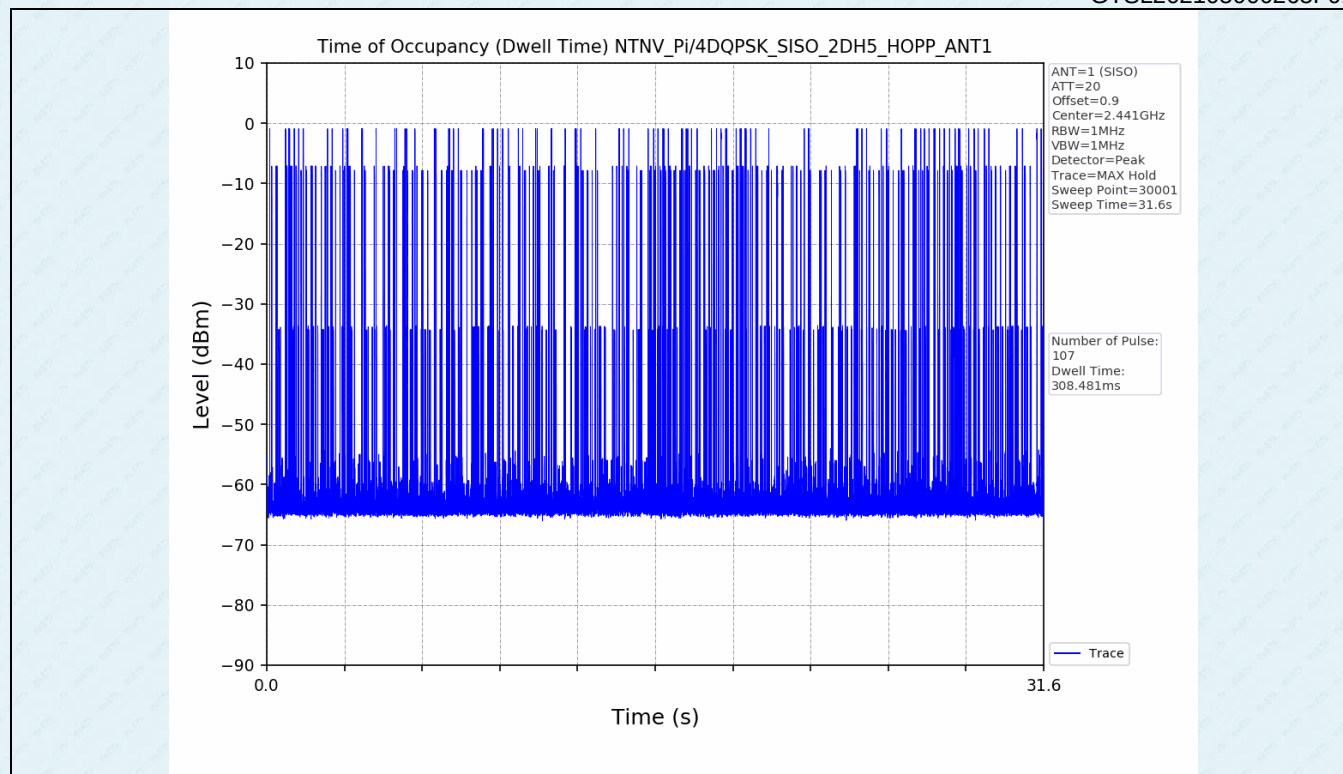


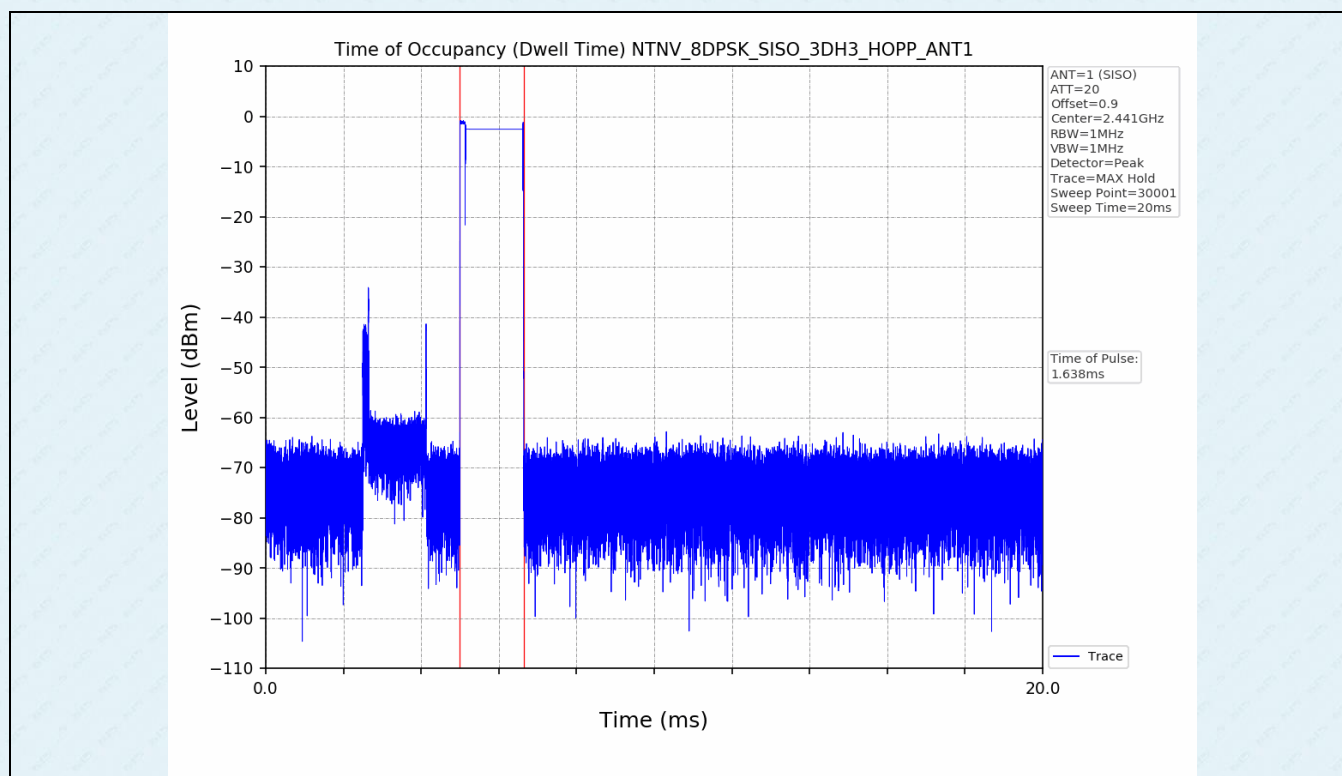
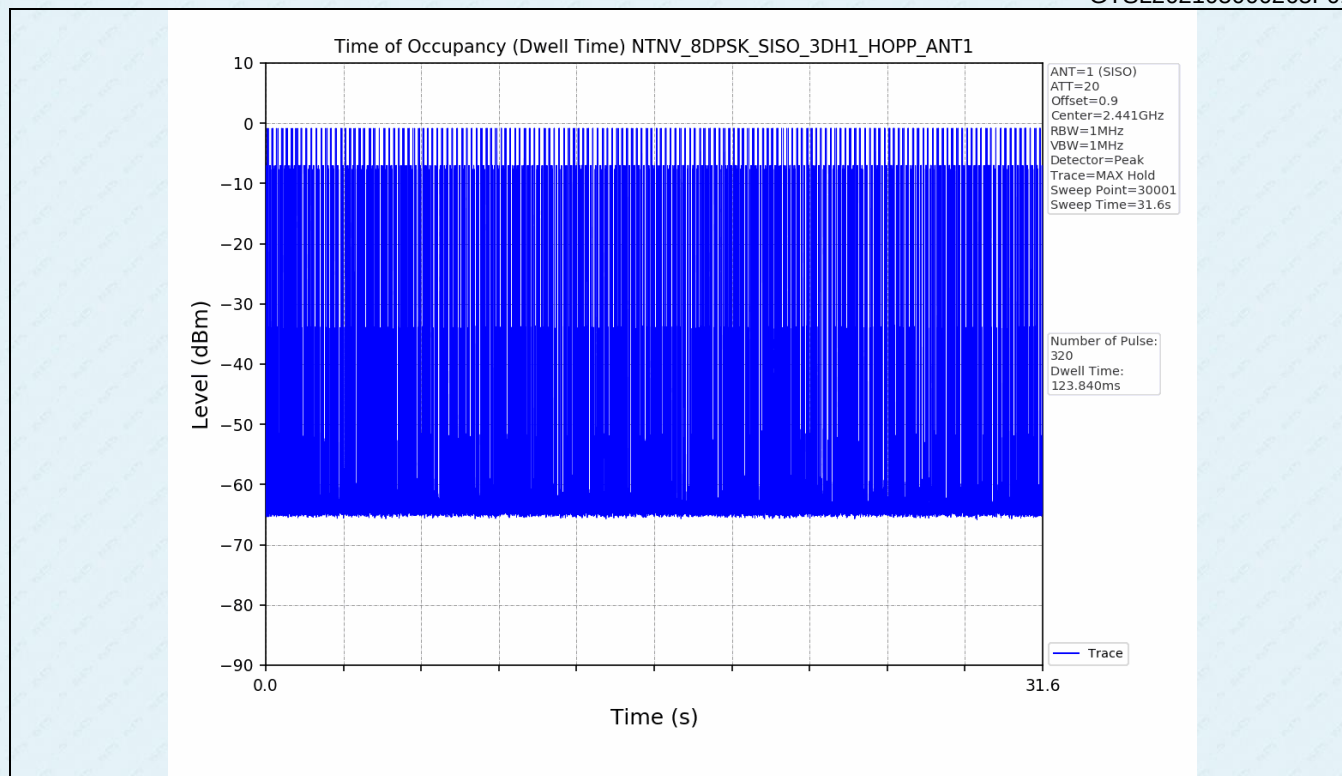


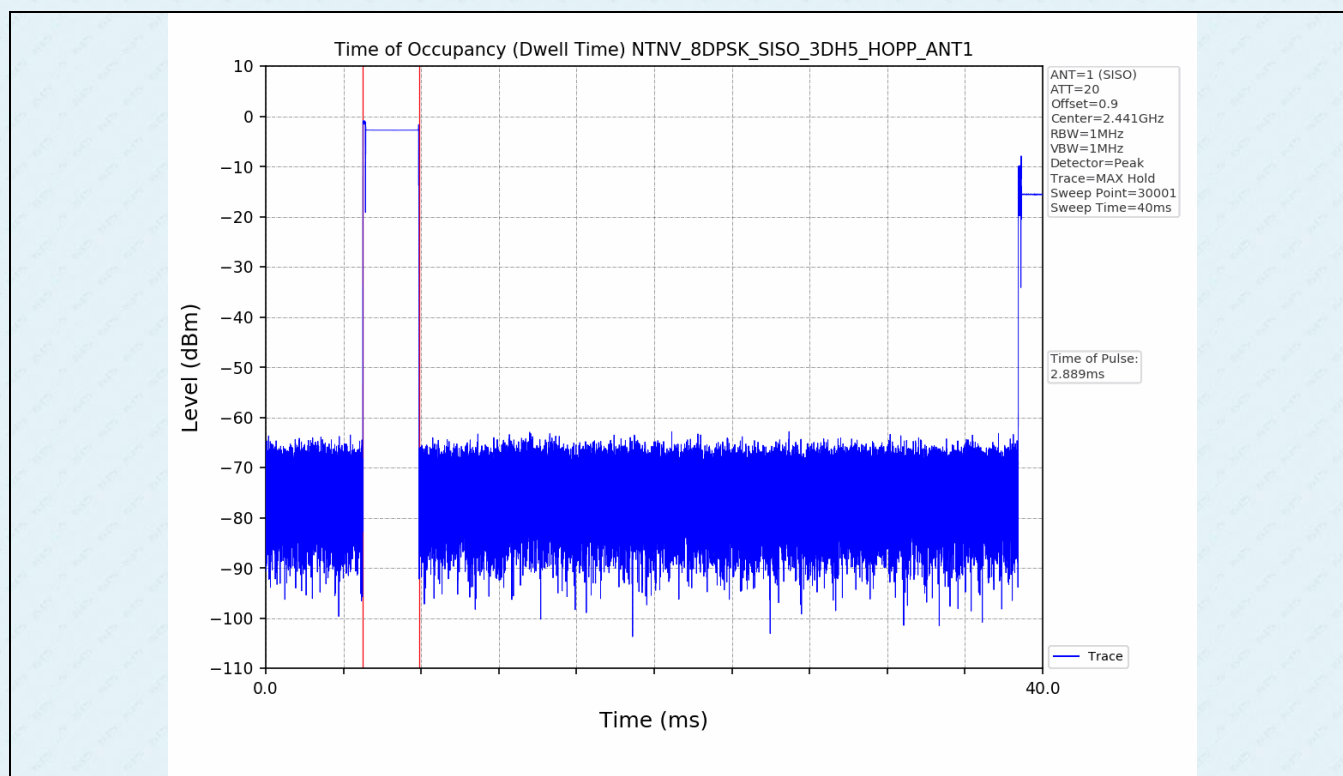
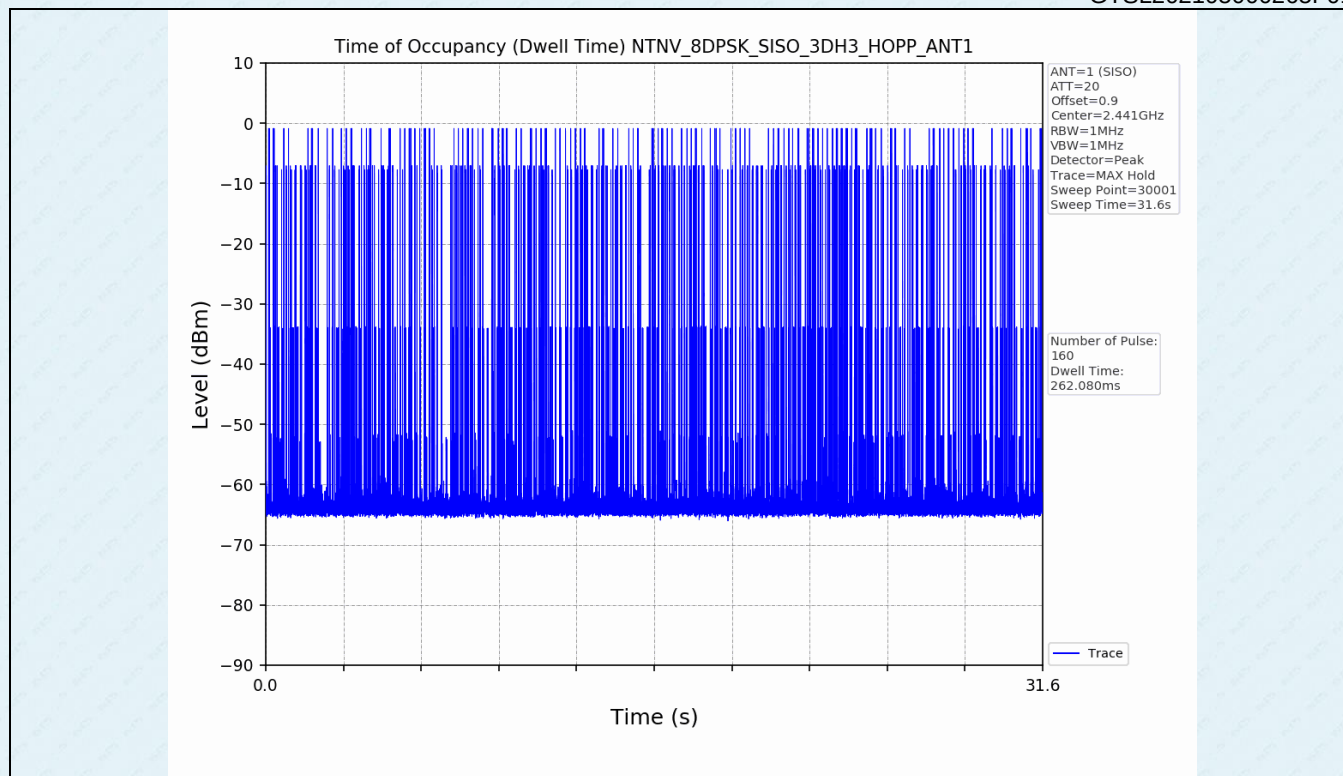


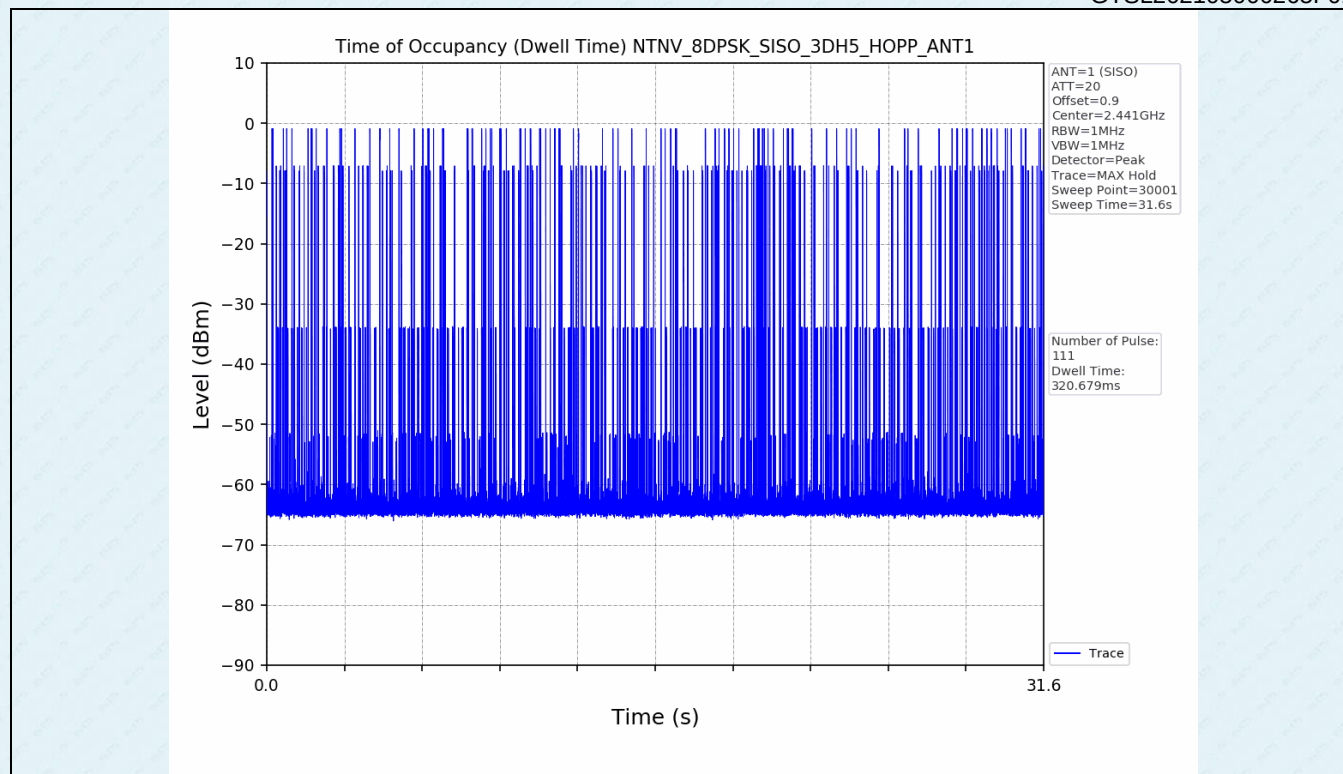










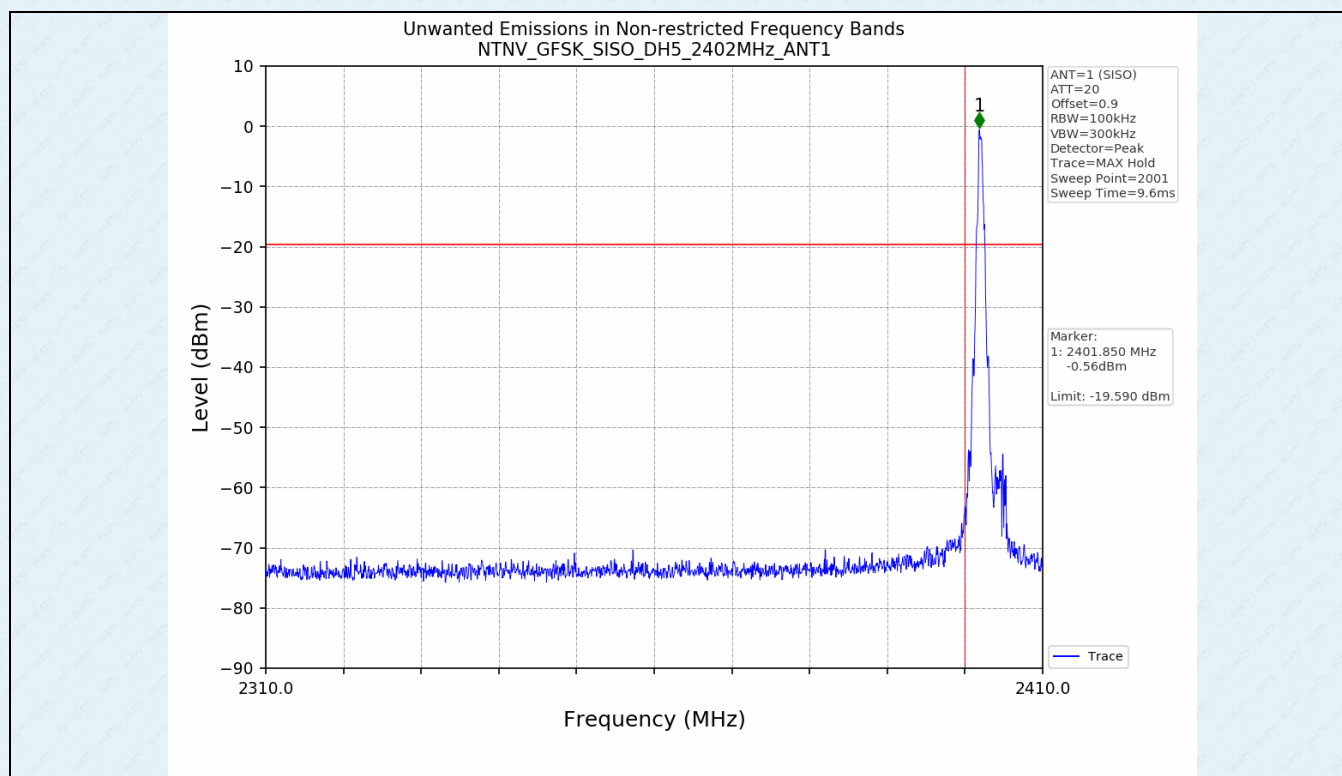
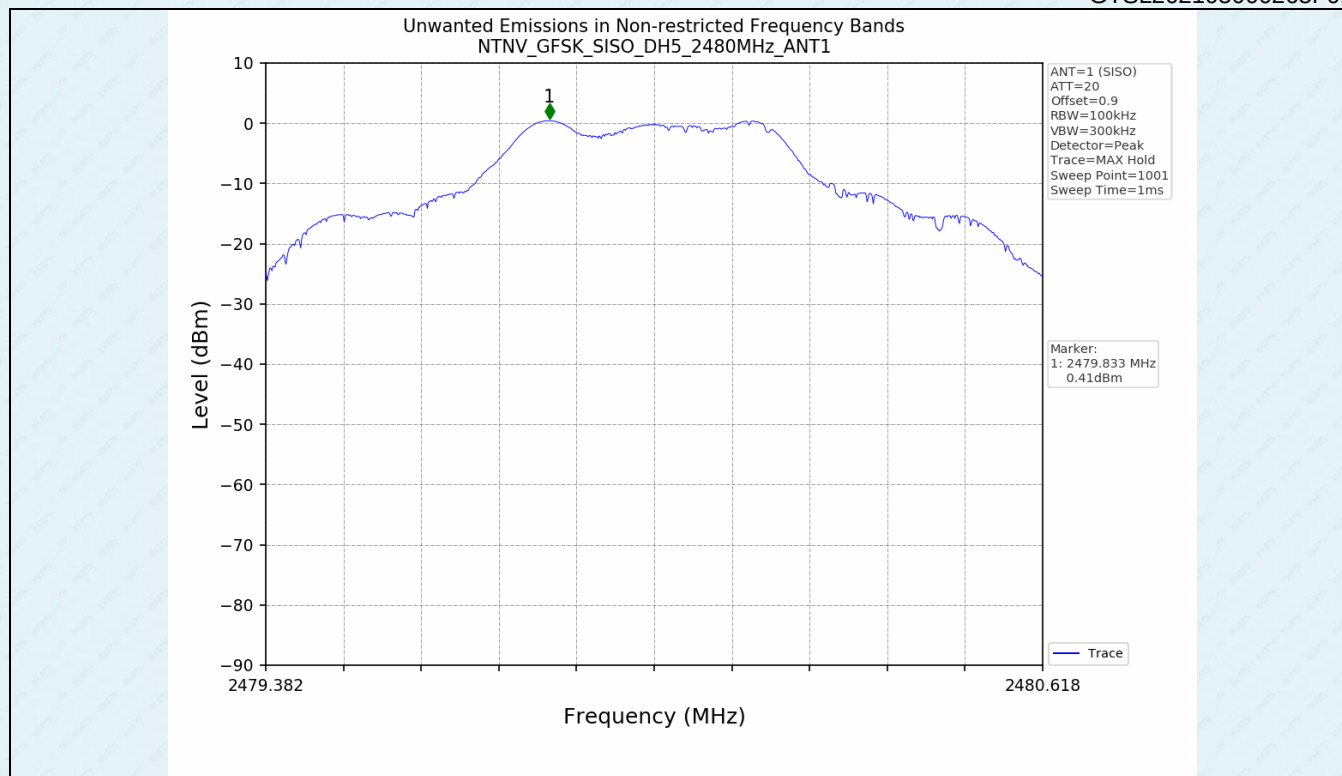


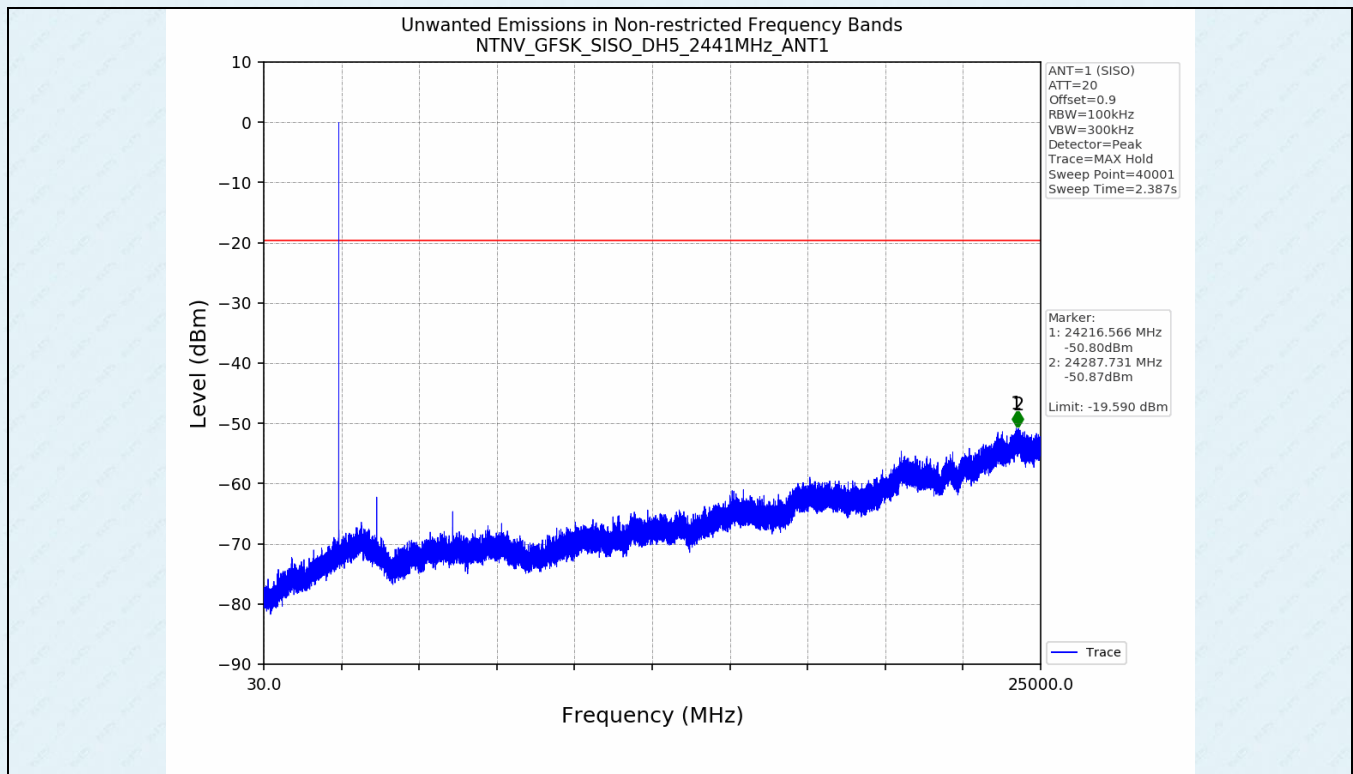
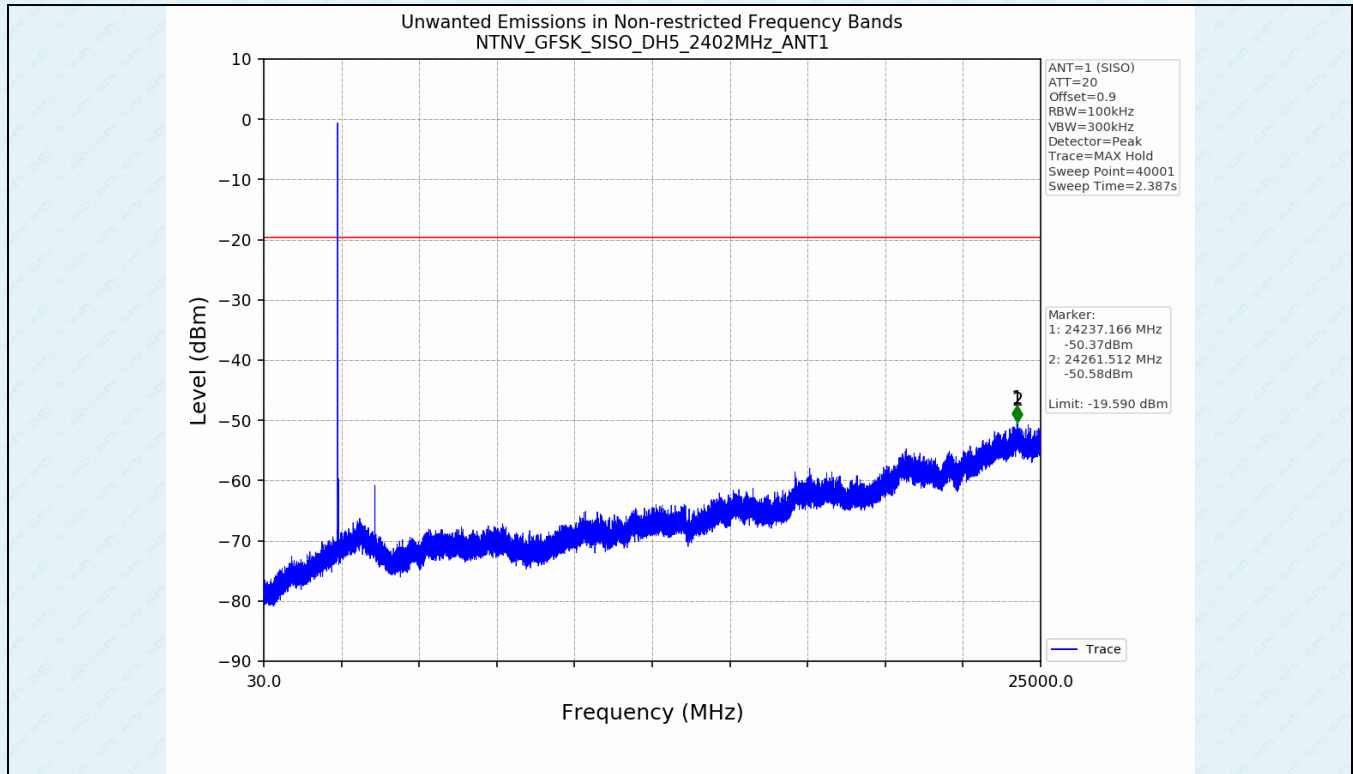
6. Unwanted Emissions in Non-restricted Frequency Bands

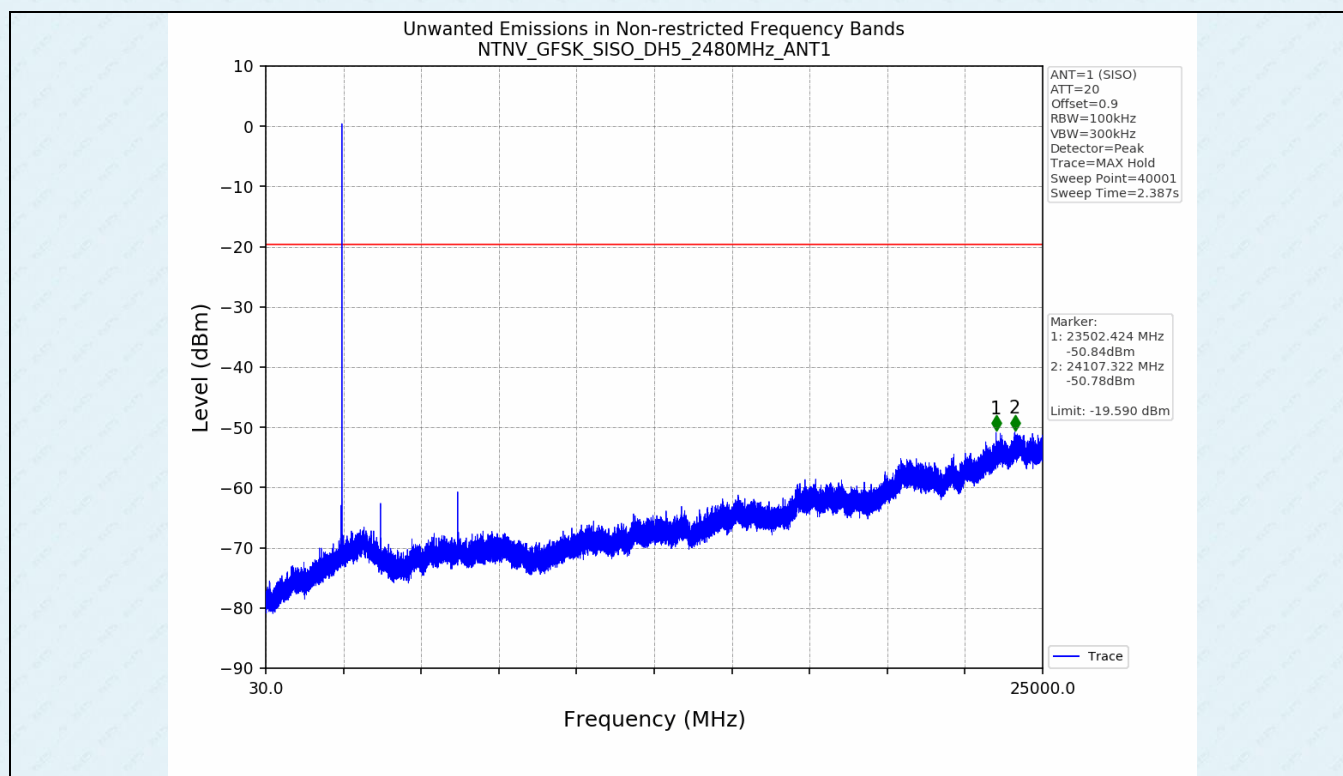
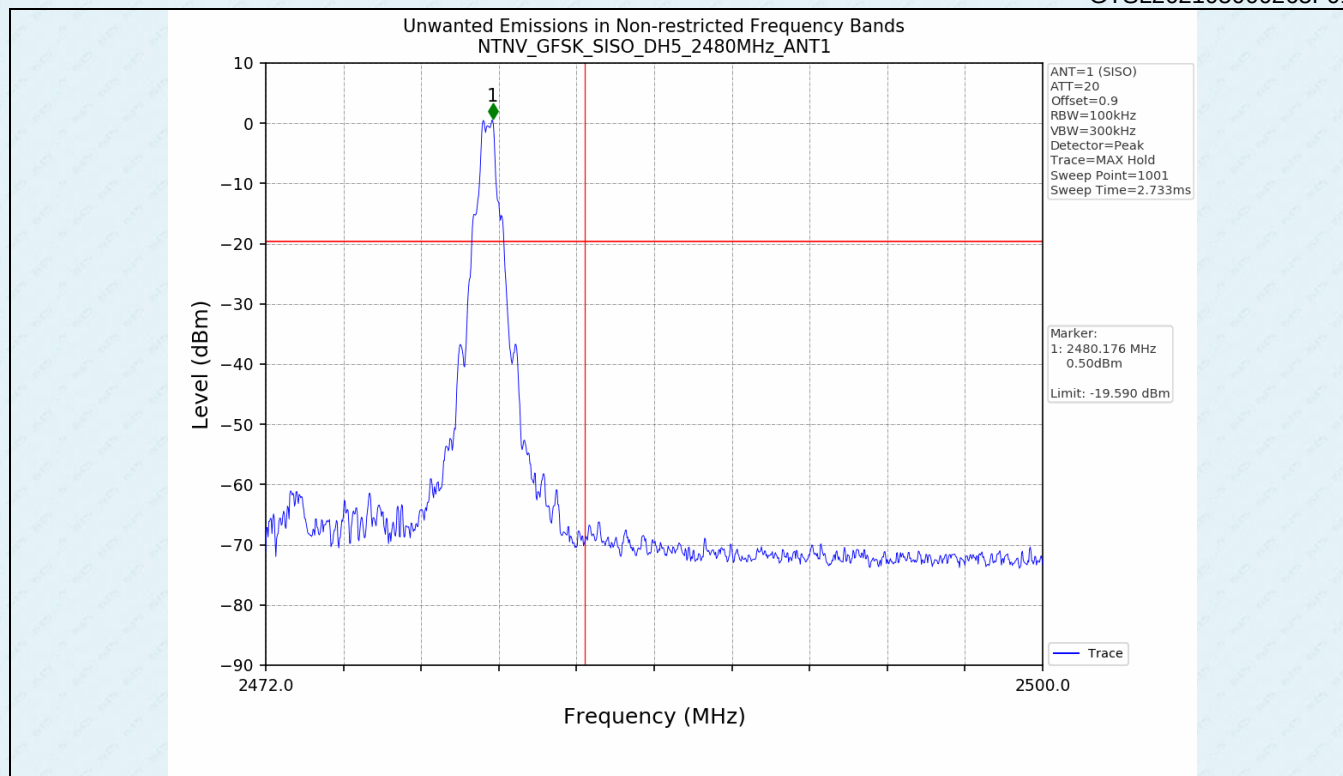
6.1 Test Result

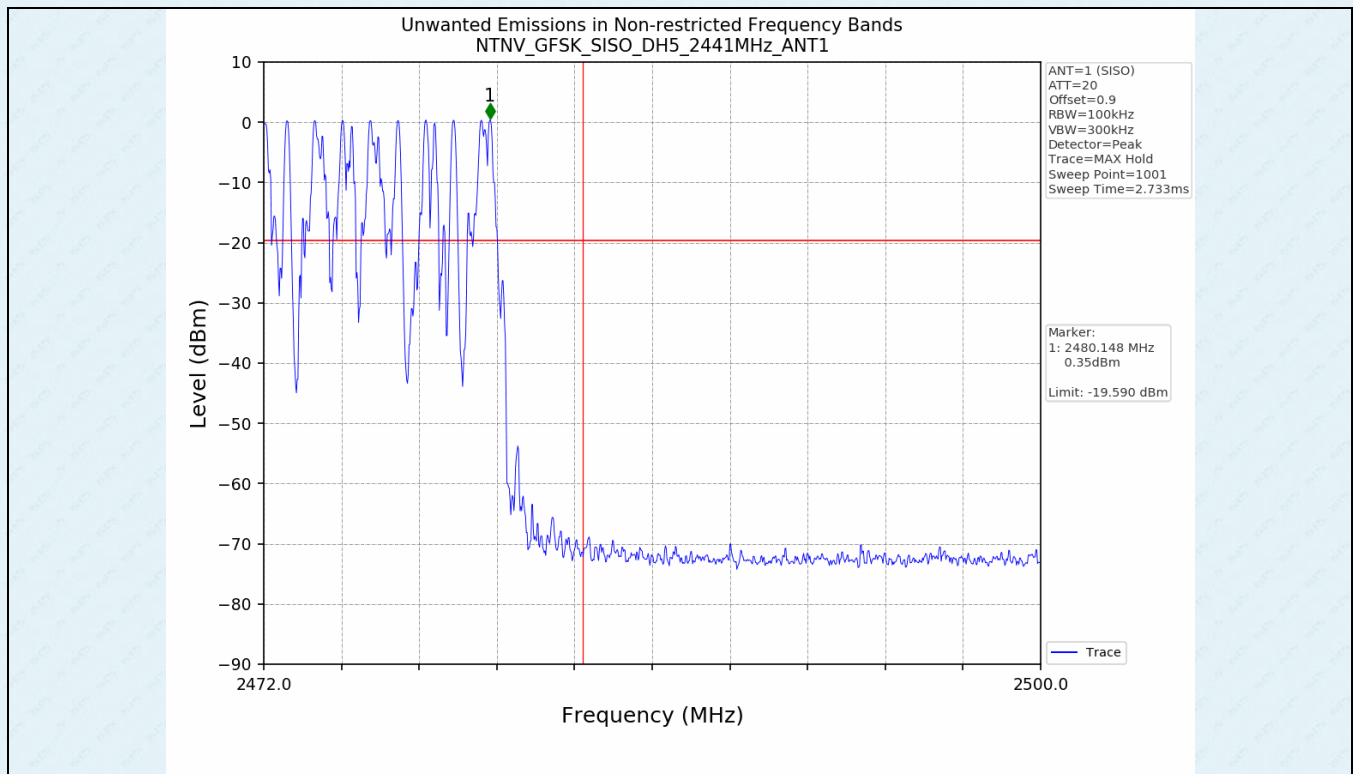
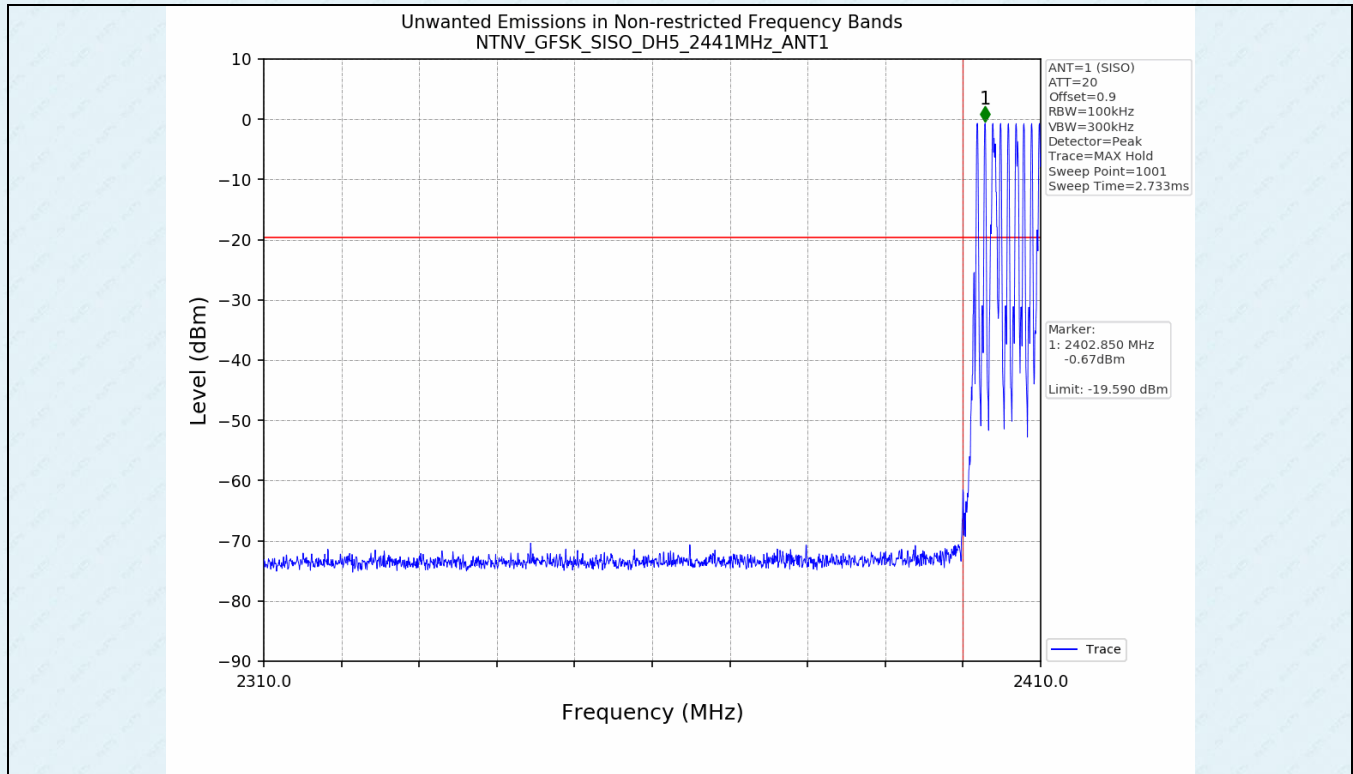
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-19.59	PASS
	2441	SISO	1	Refer to test graph	-19.59	PASS
	2480	SISO	1	Refer to test graph	-19.59	PASS
	Hopping	SISO	1	Refer to test graph	-19.59	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-20.80	PASS
	2441	SISO	1	Refer to test graph	-20.80	PASS
	2480	SISO	1	Refer to test graph	-20.80	PASS
	Hopping	SISO	1	Refer to test graph	-20.80	PASS
8DPSK	2402	SISO	1	Refer to test graph	-20.75	PASS
	2441	SISO	1	Refer to test graph	-20.75	PASS
	2480	SISO	1	Refer to test graph	-20.75	PASS
	Hopping	SISO	1	Refer to test graph	-20.75	PASS

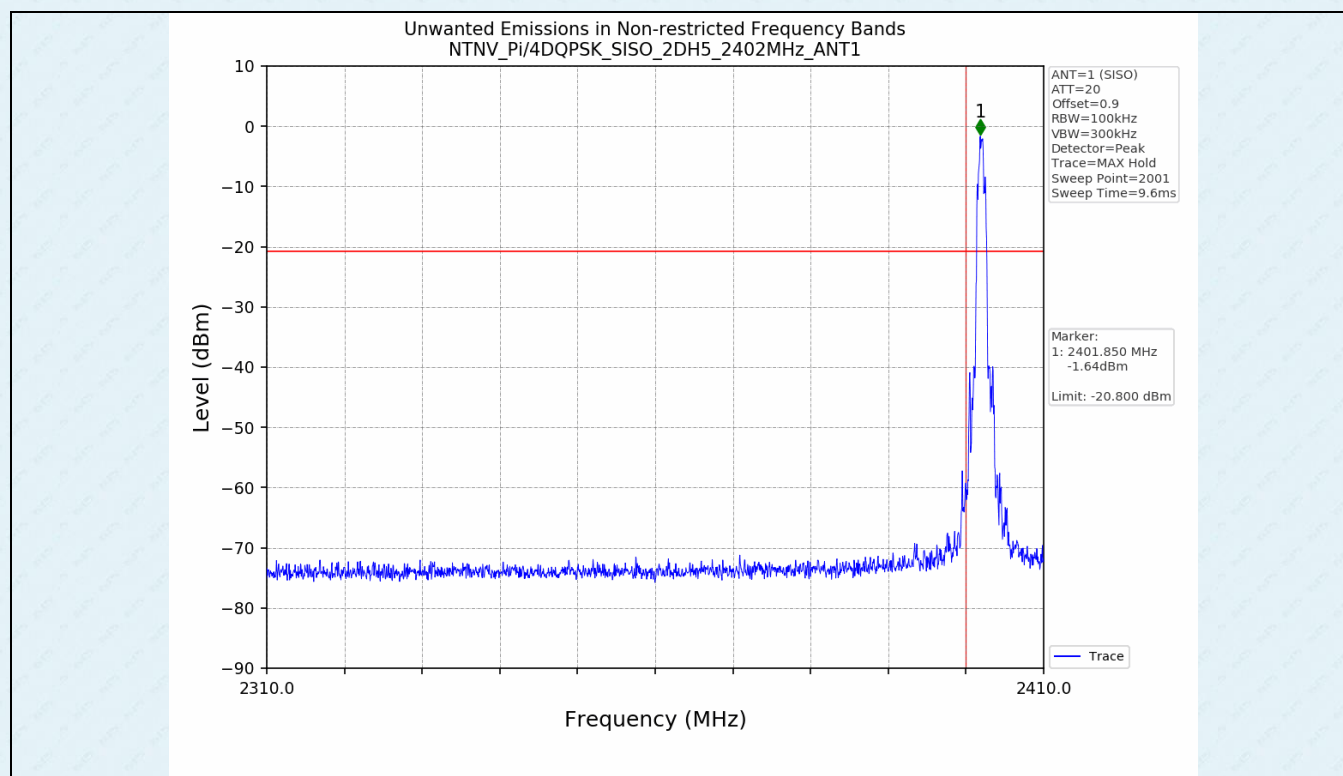
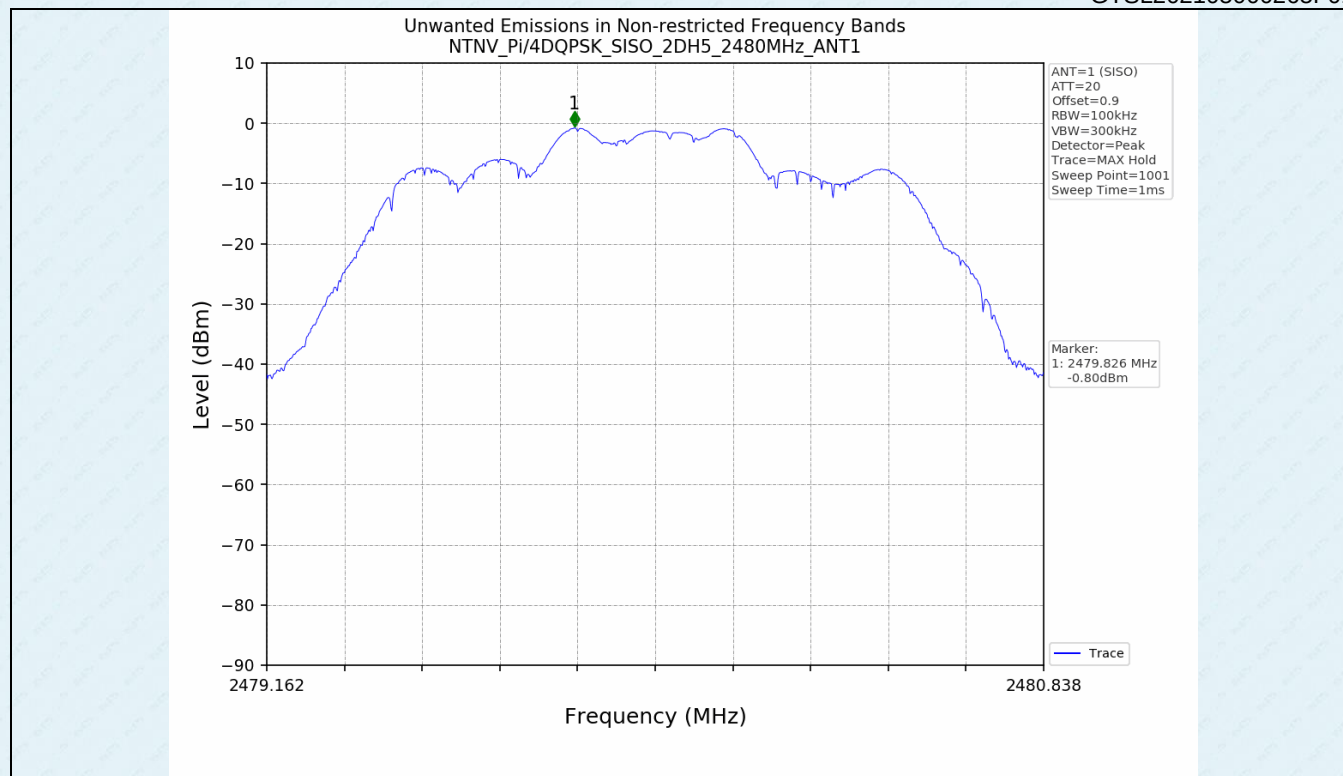
6.2 Test Graph

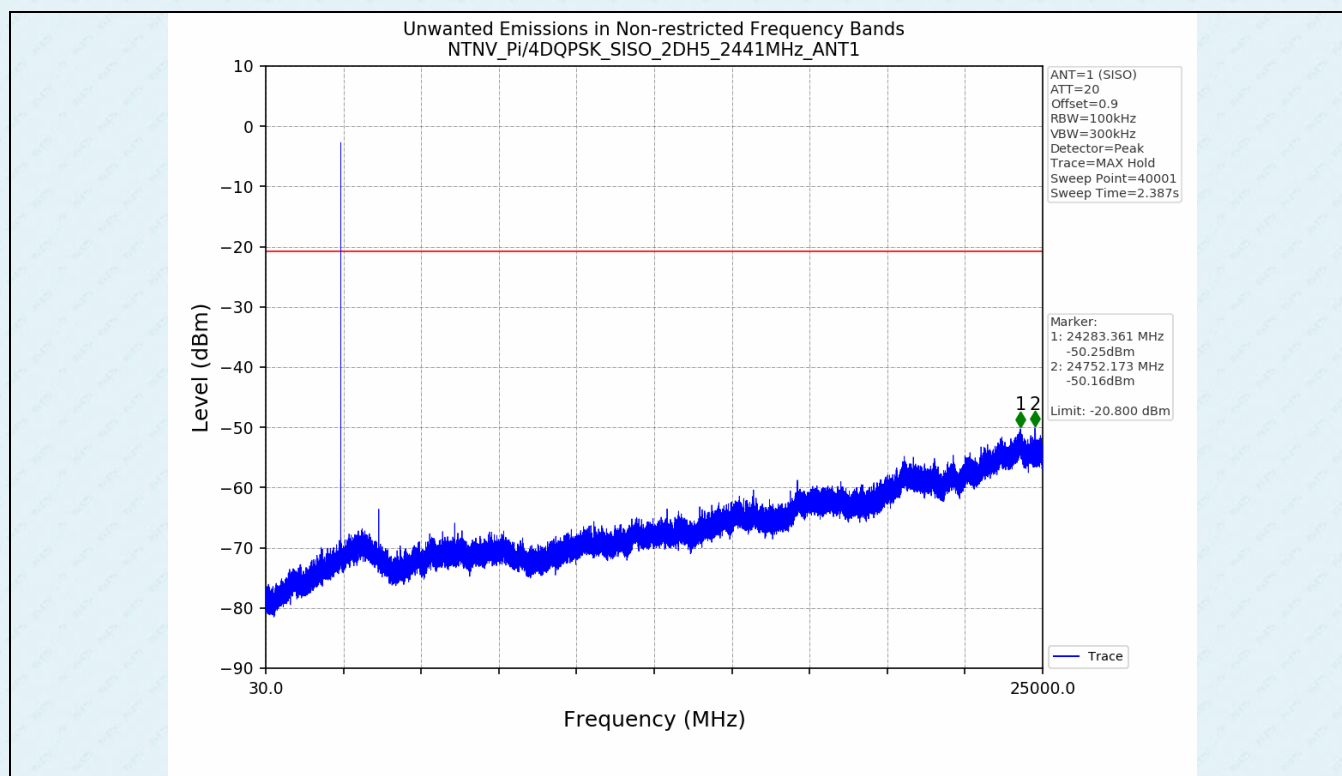
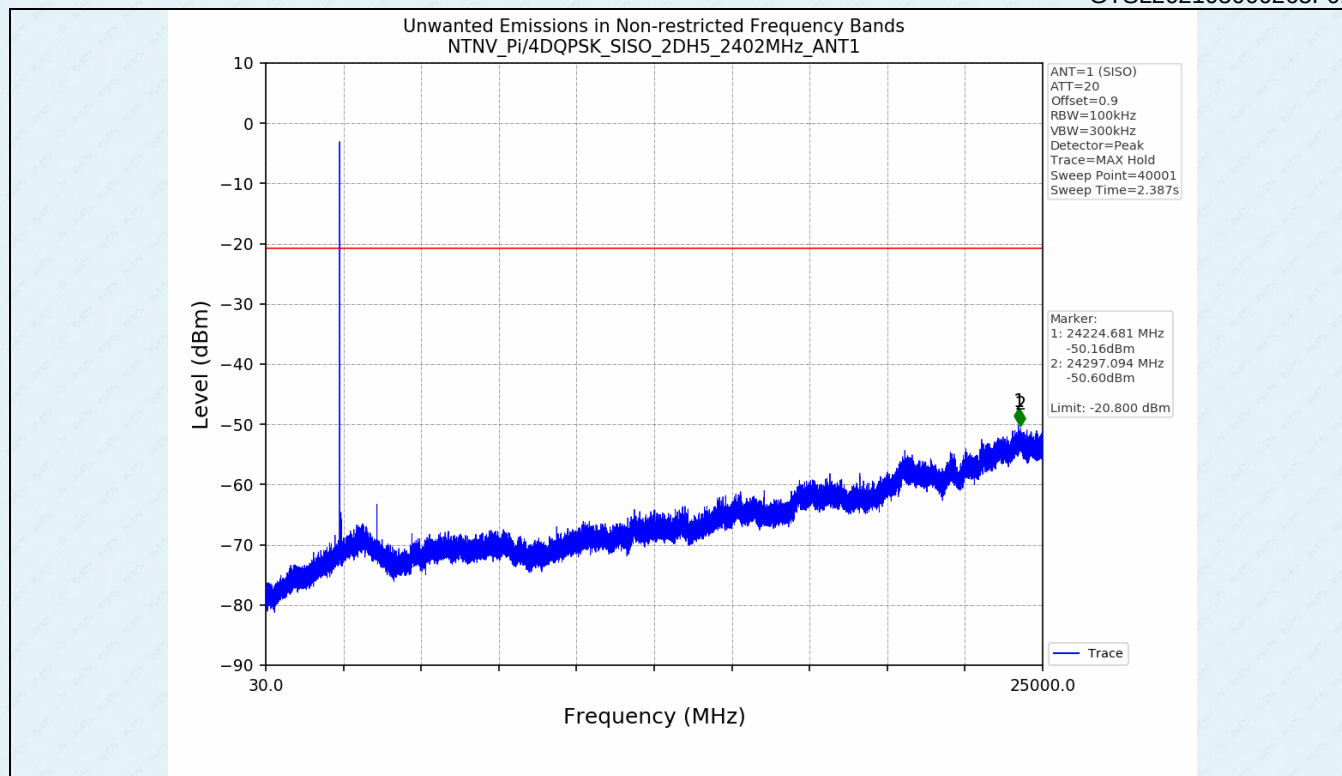


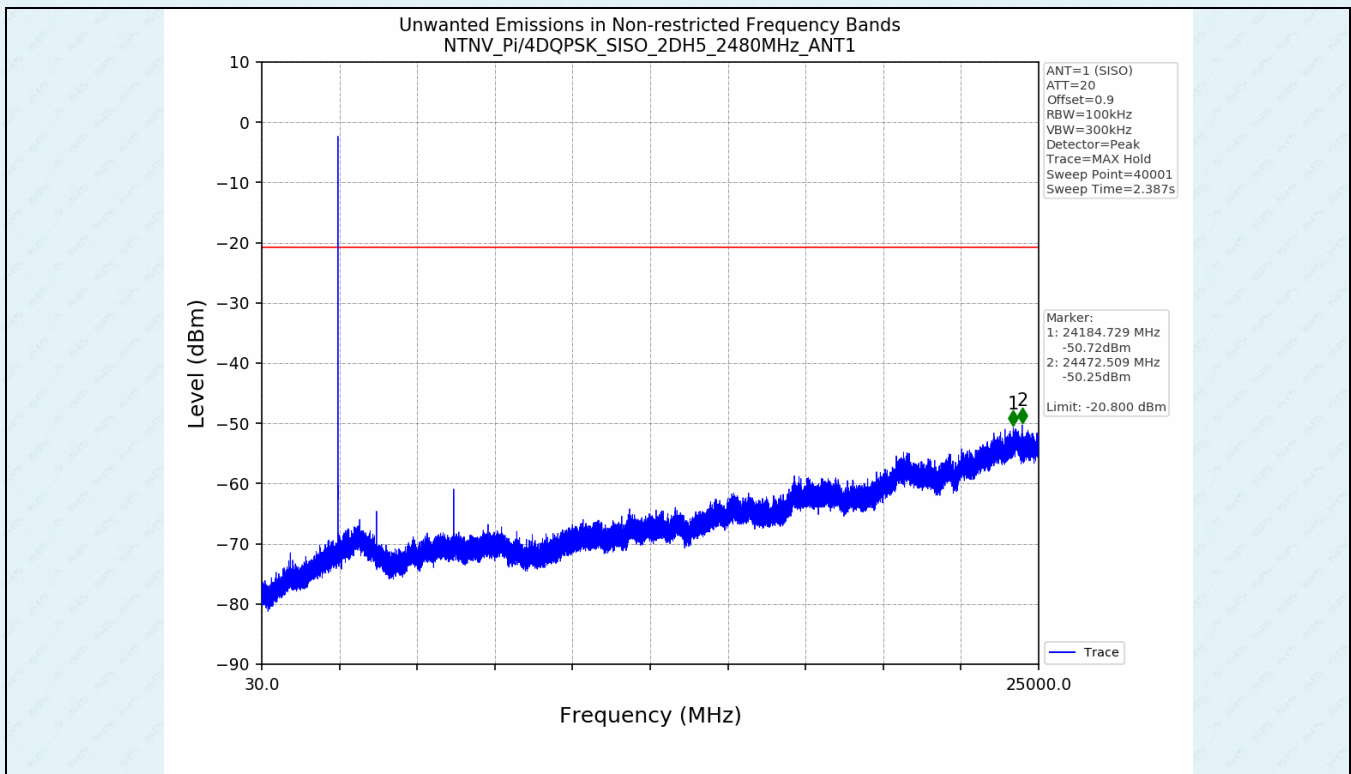
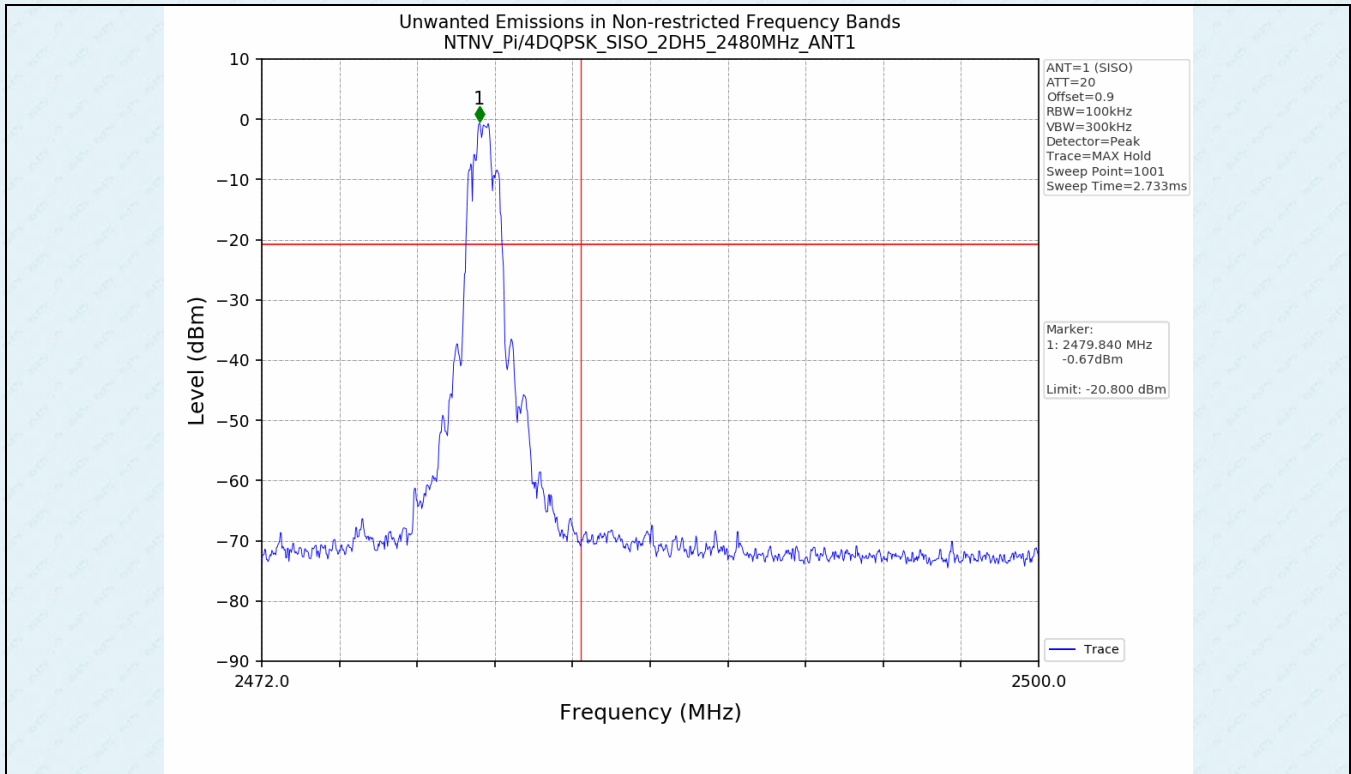


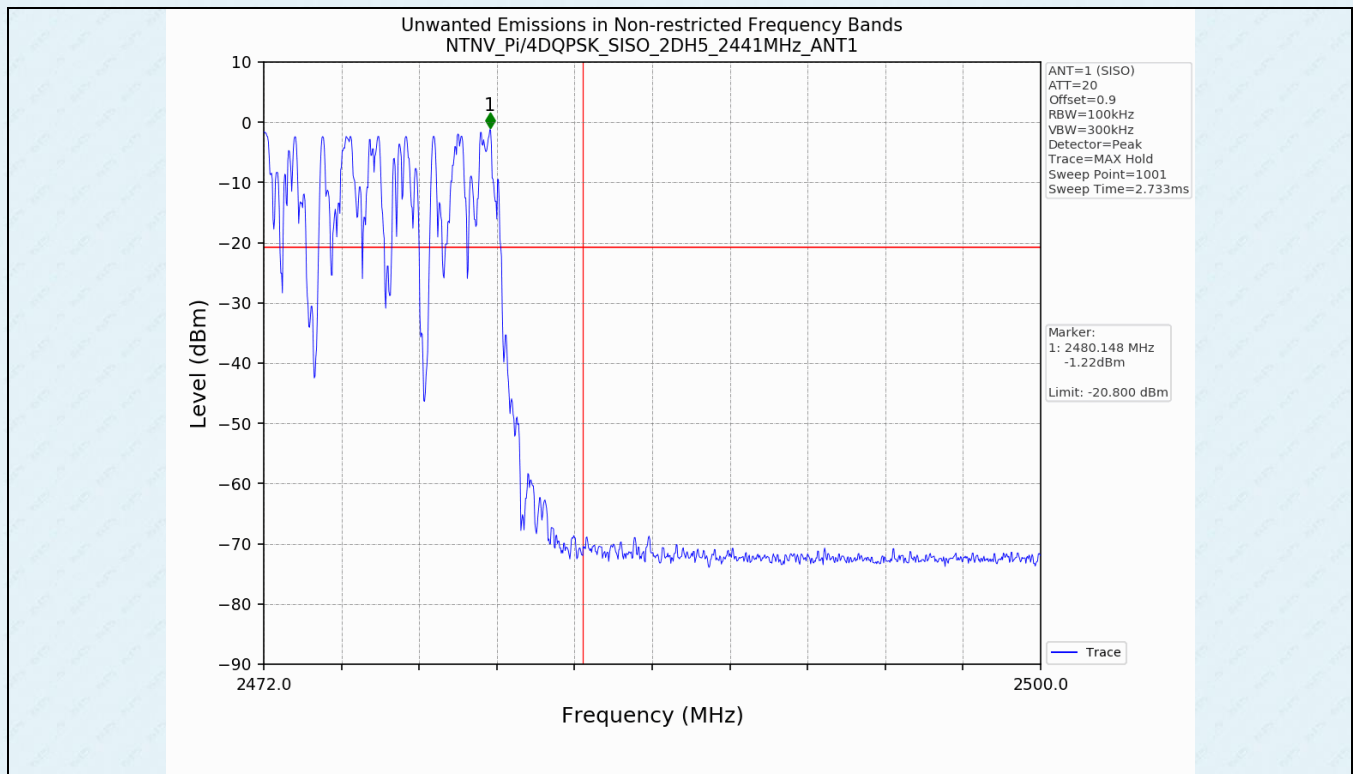
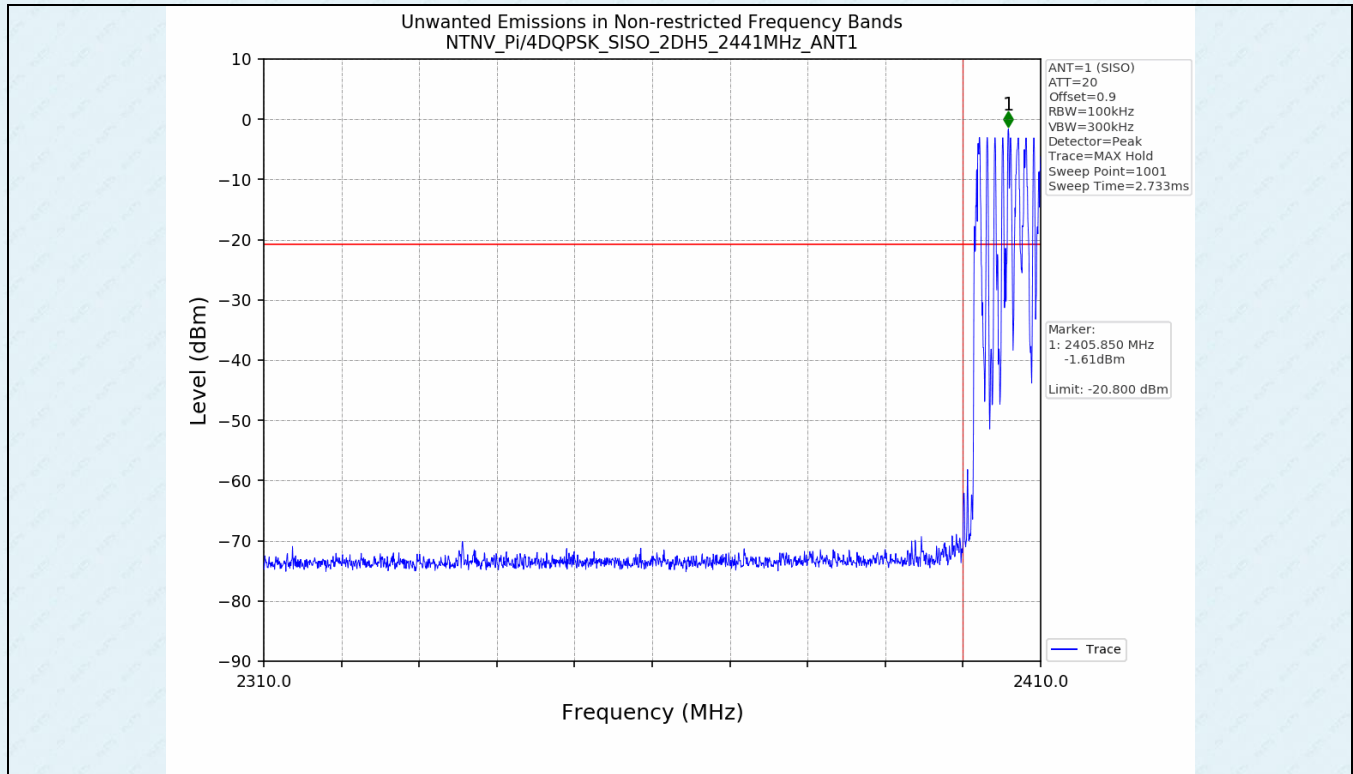


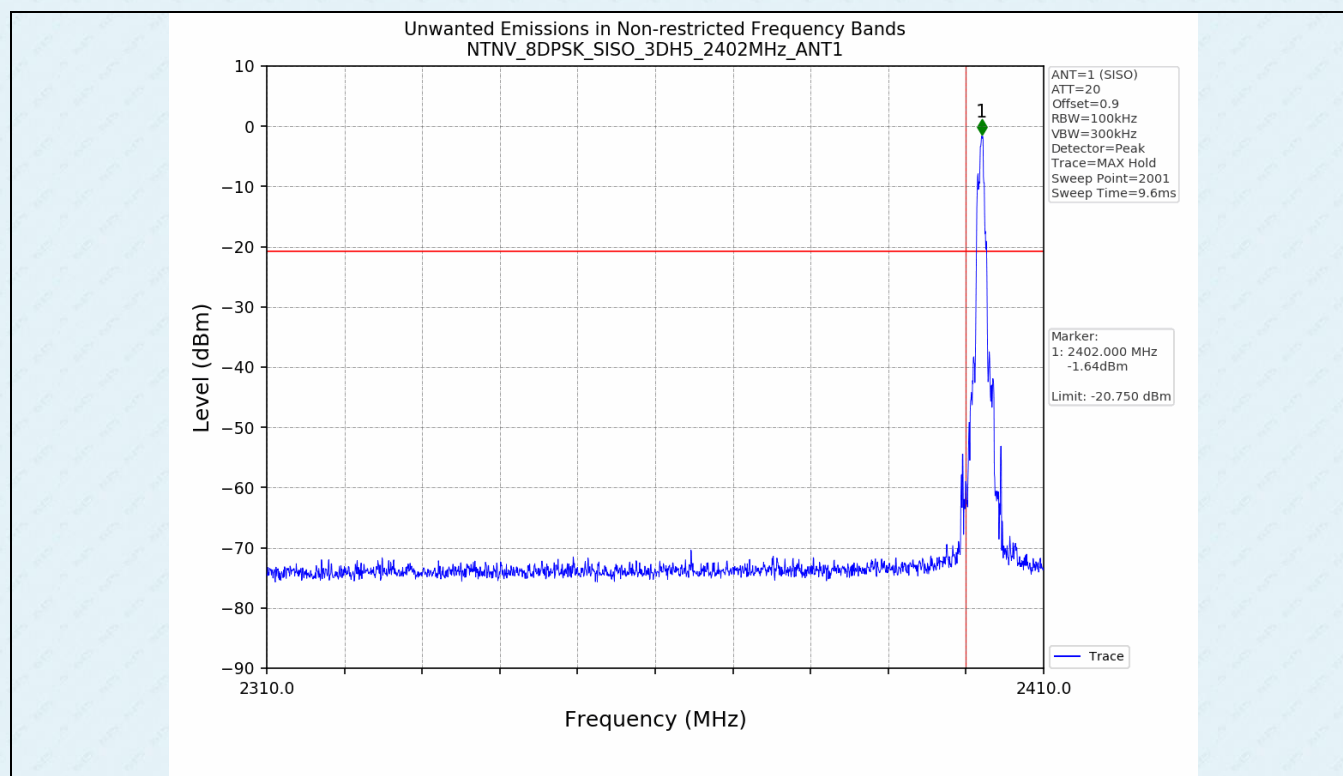
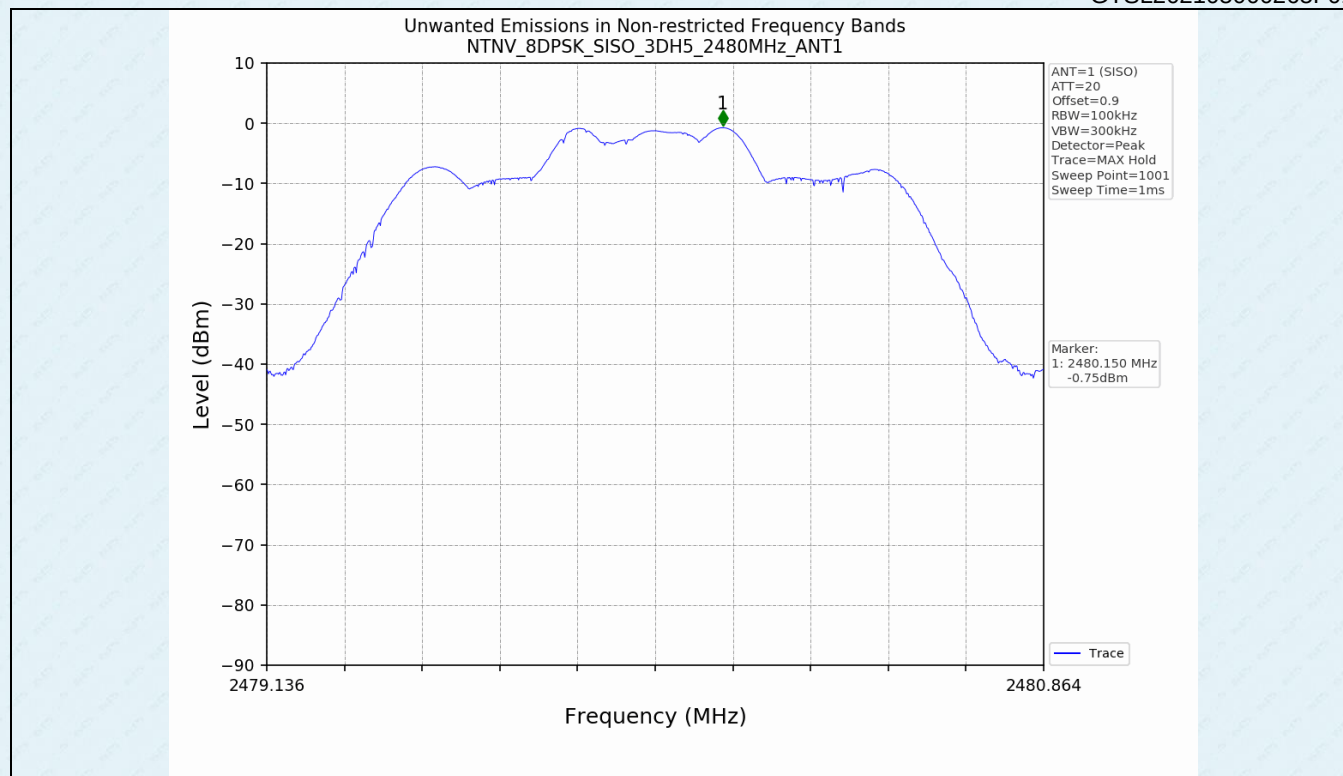


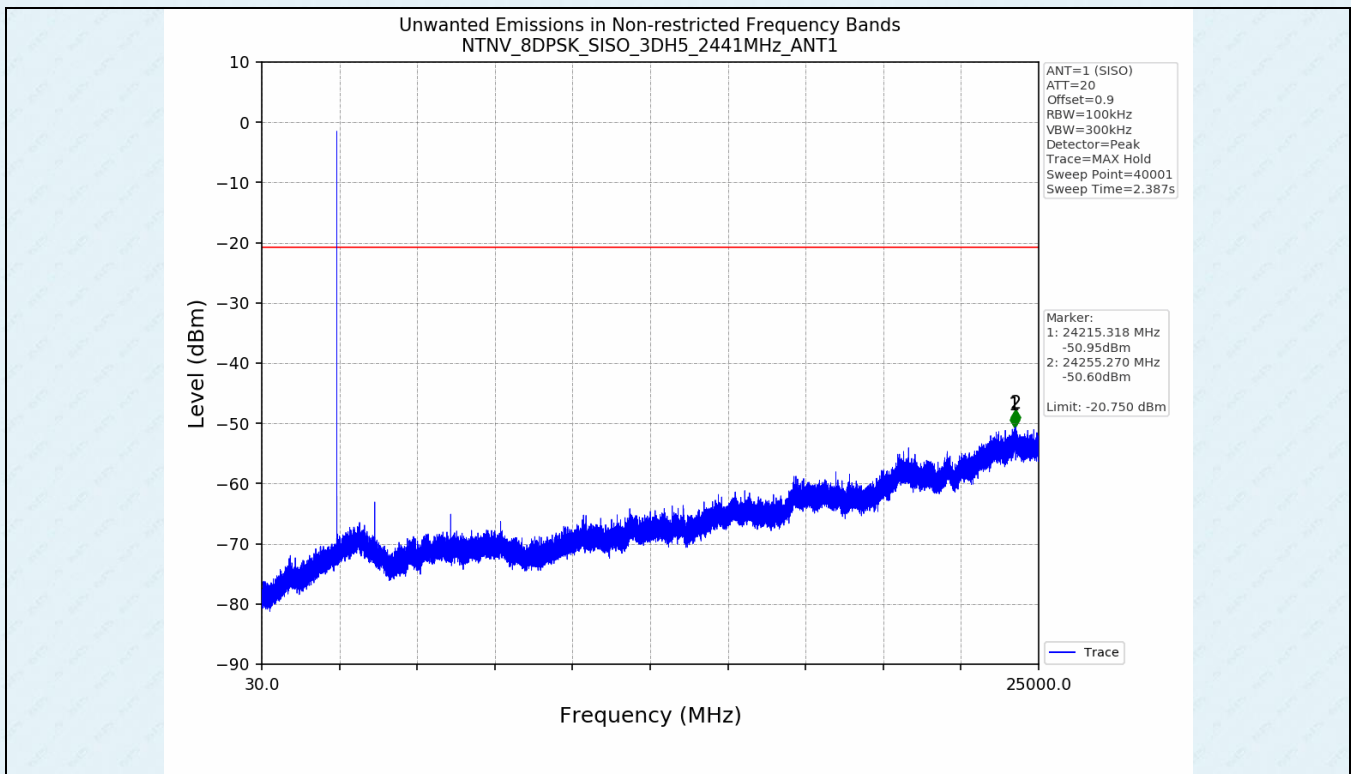
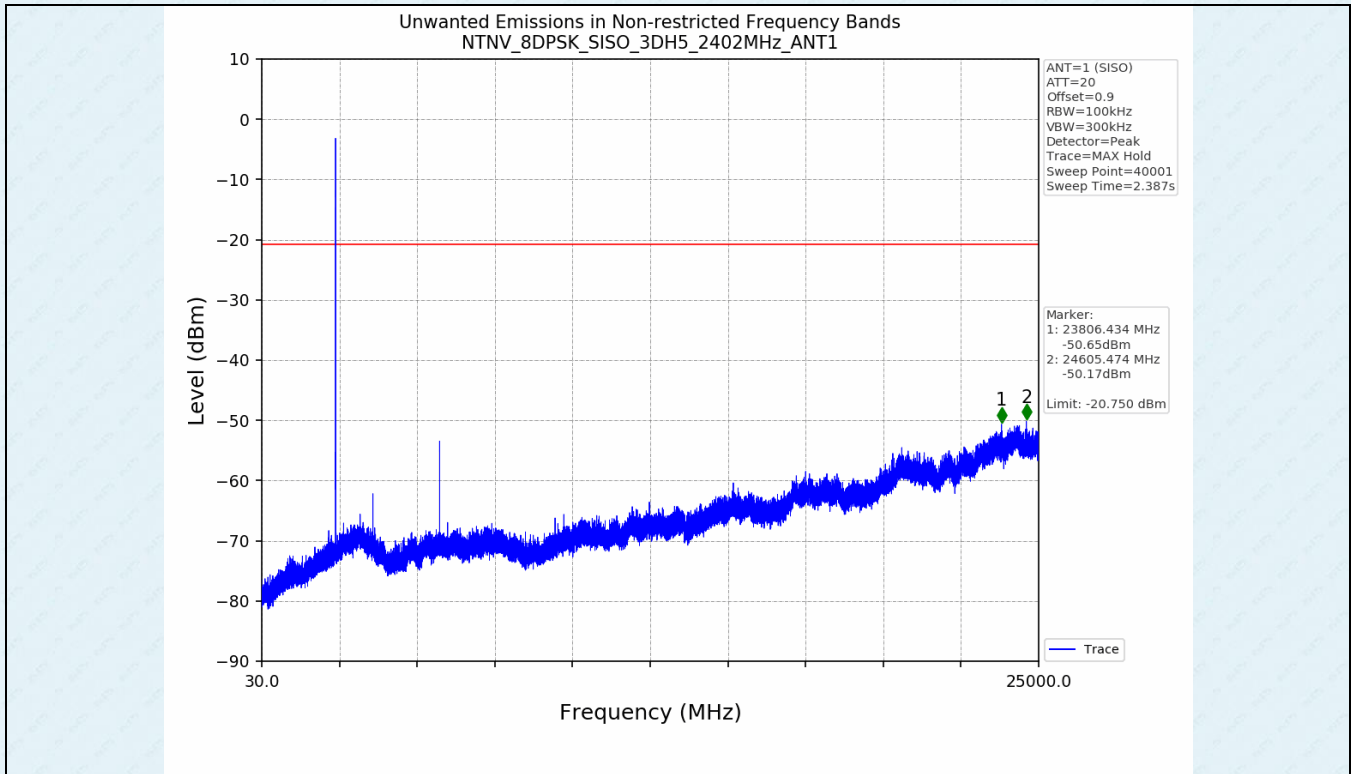


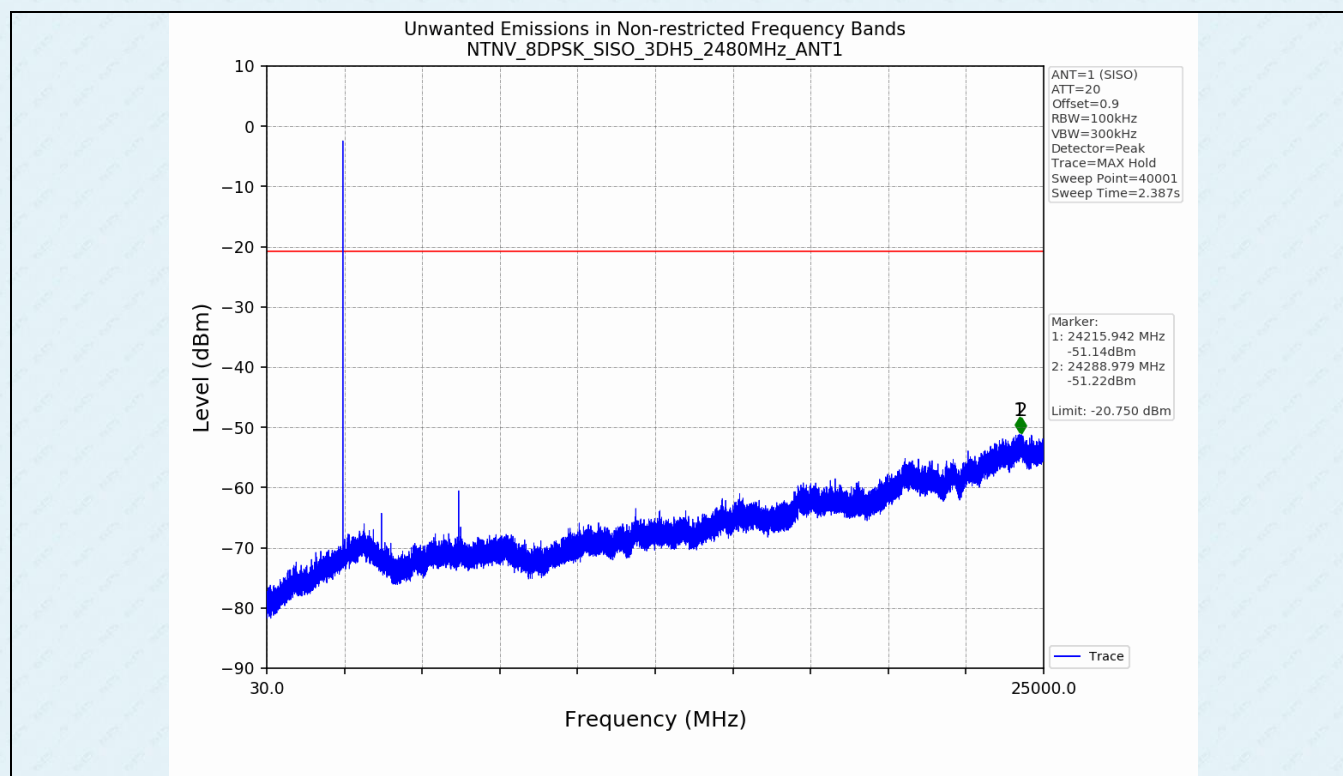
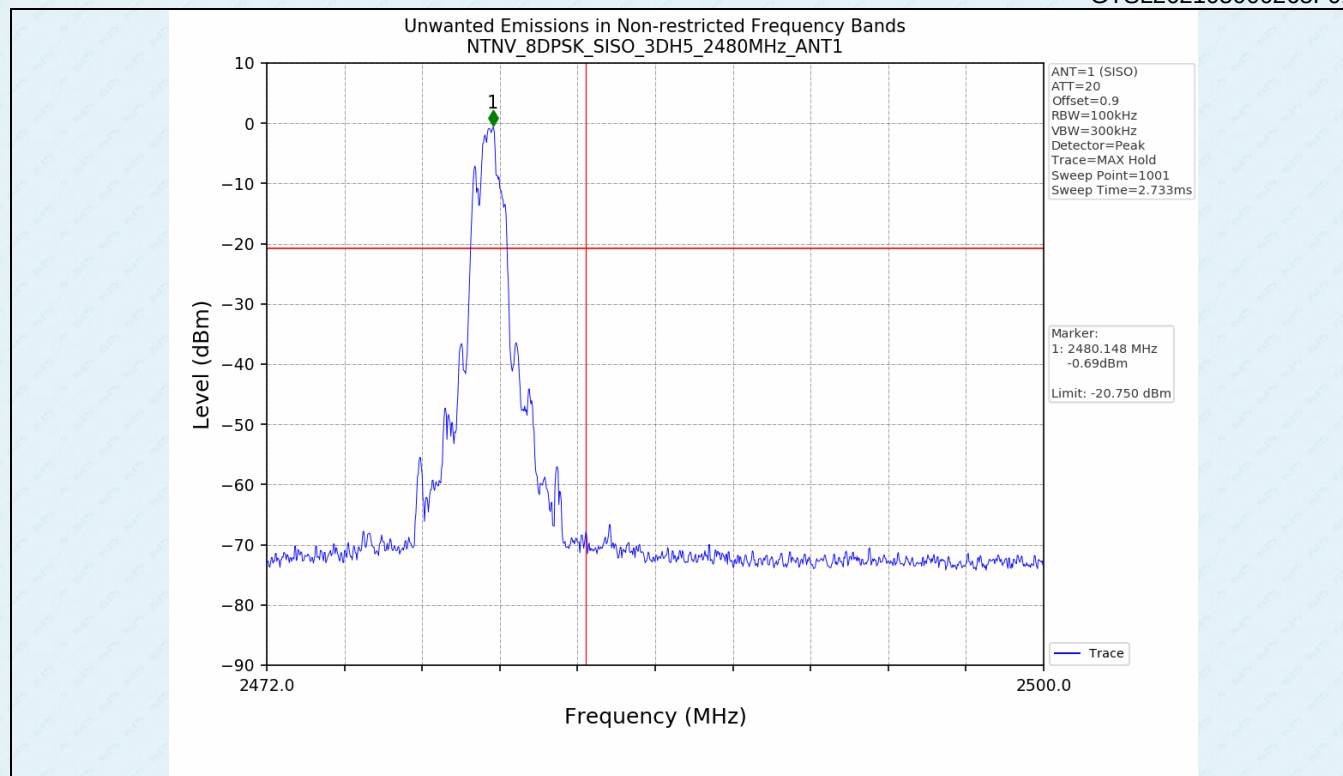


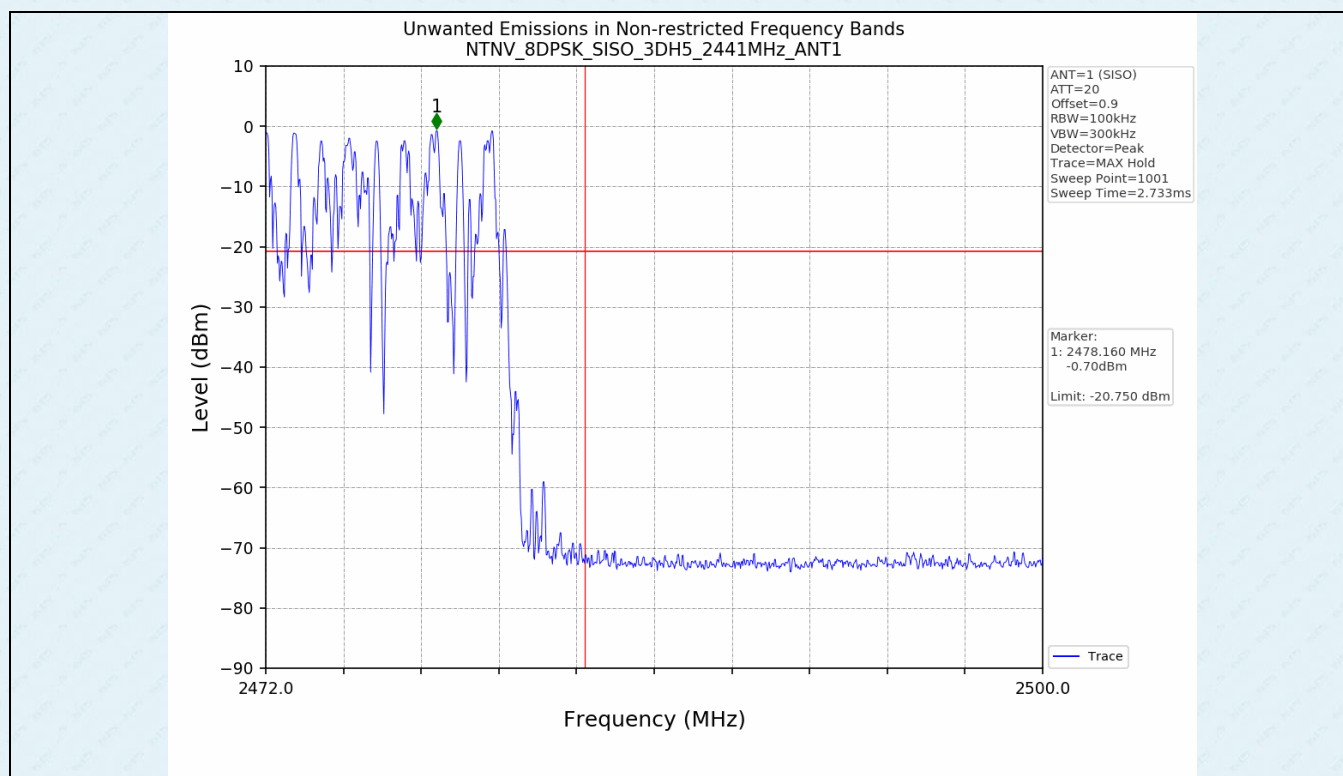
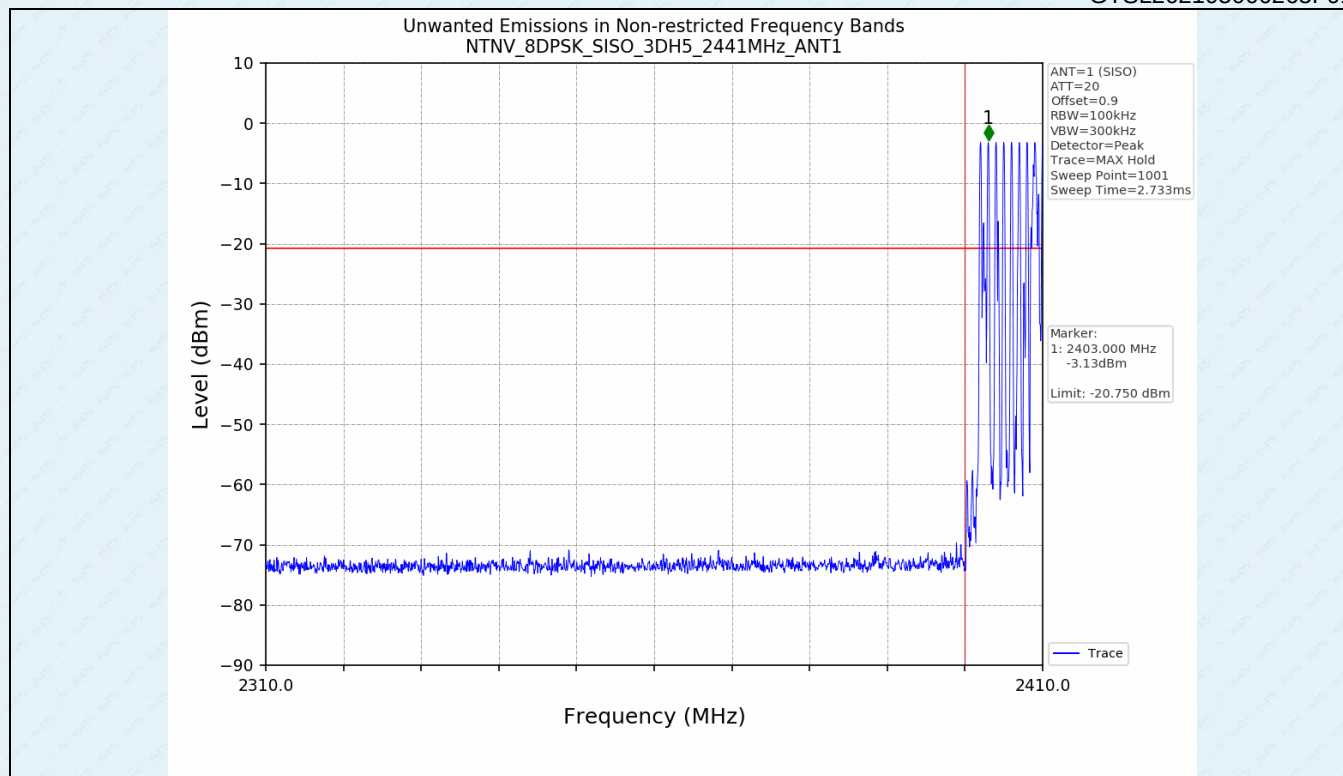












7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
Carrier	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.99	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS

7.2 Test Graph

