

Appendix for 15.247

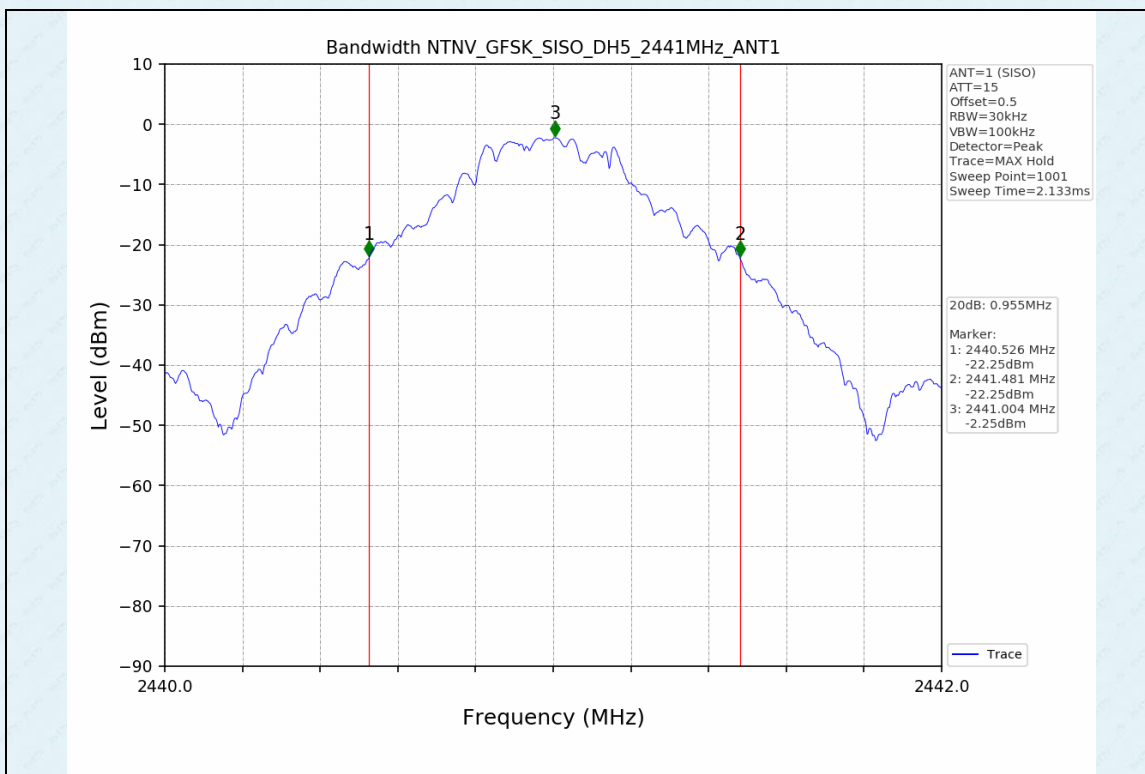
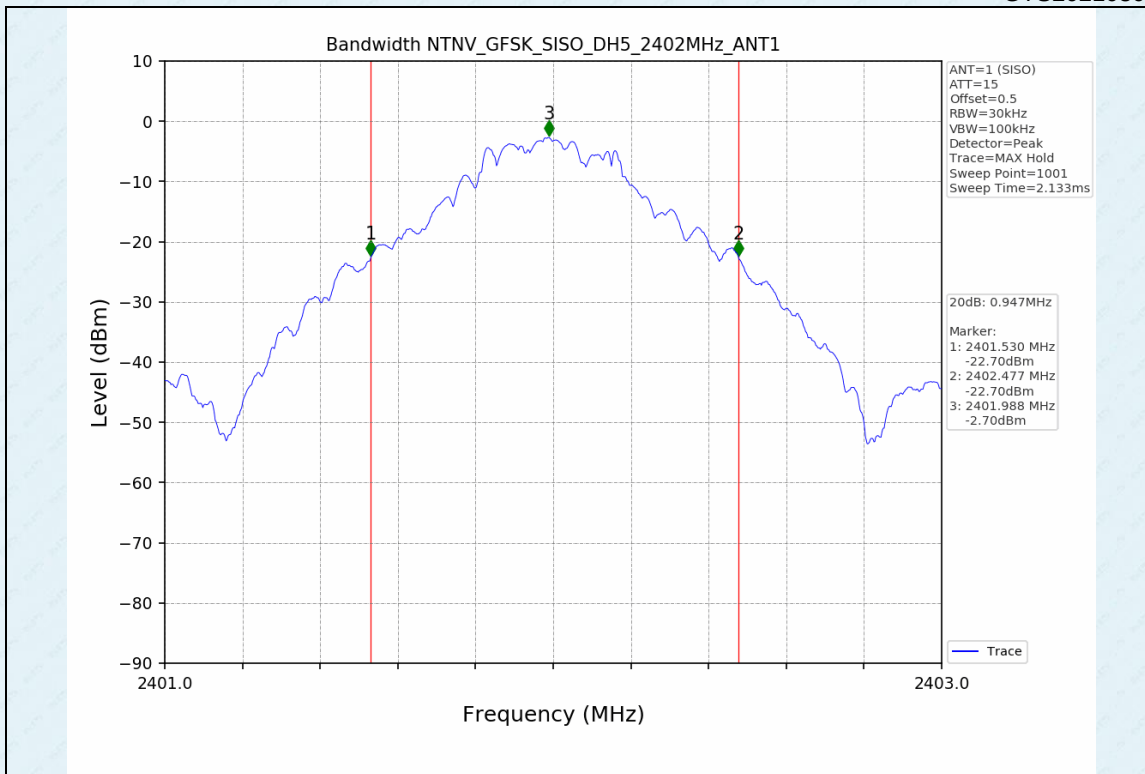
1. Bandwidth

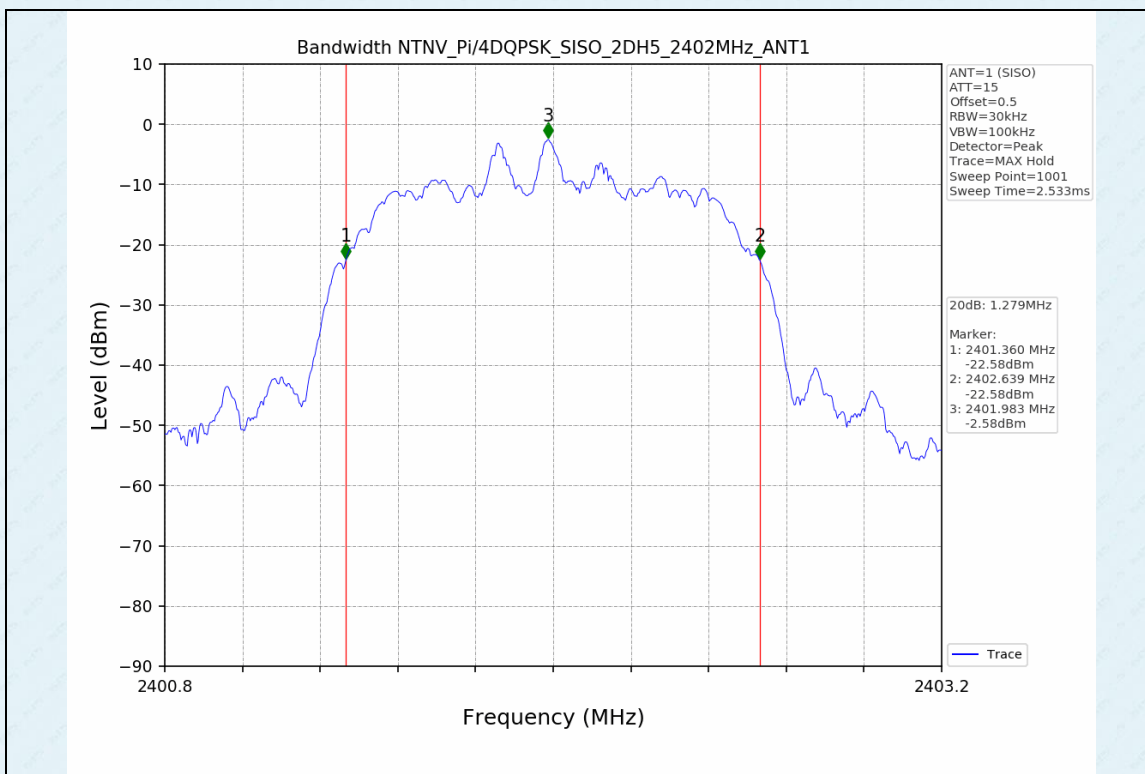
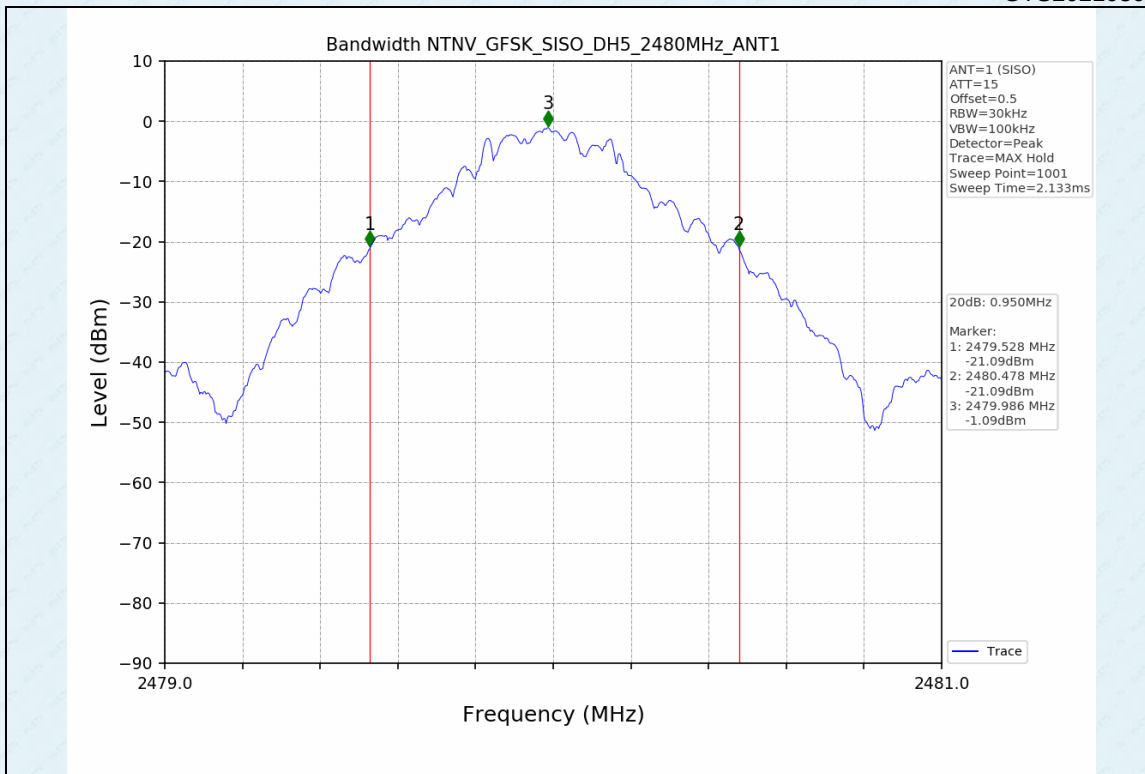
1.1 Test Result

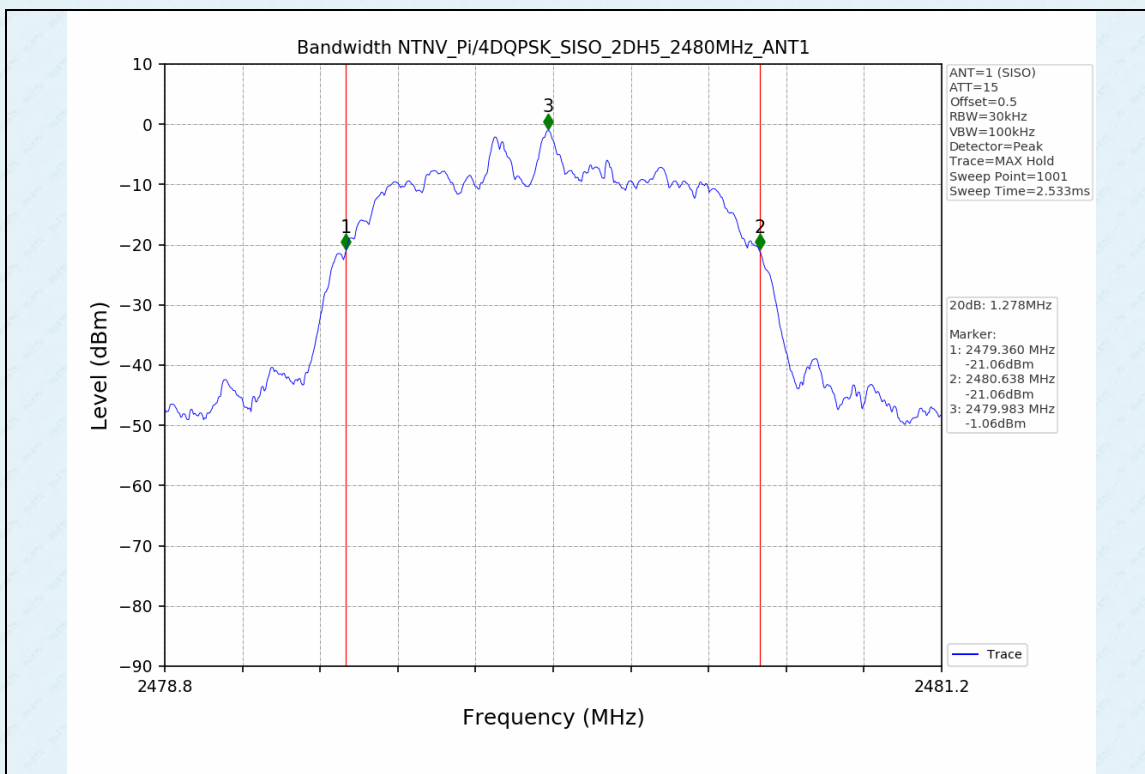
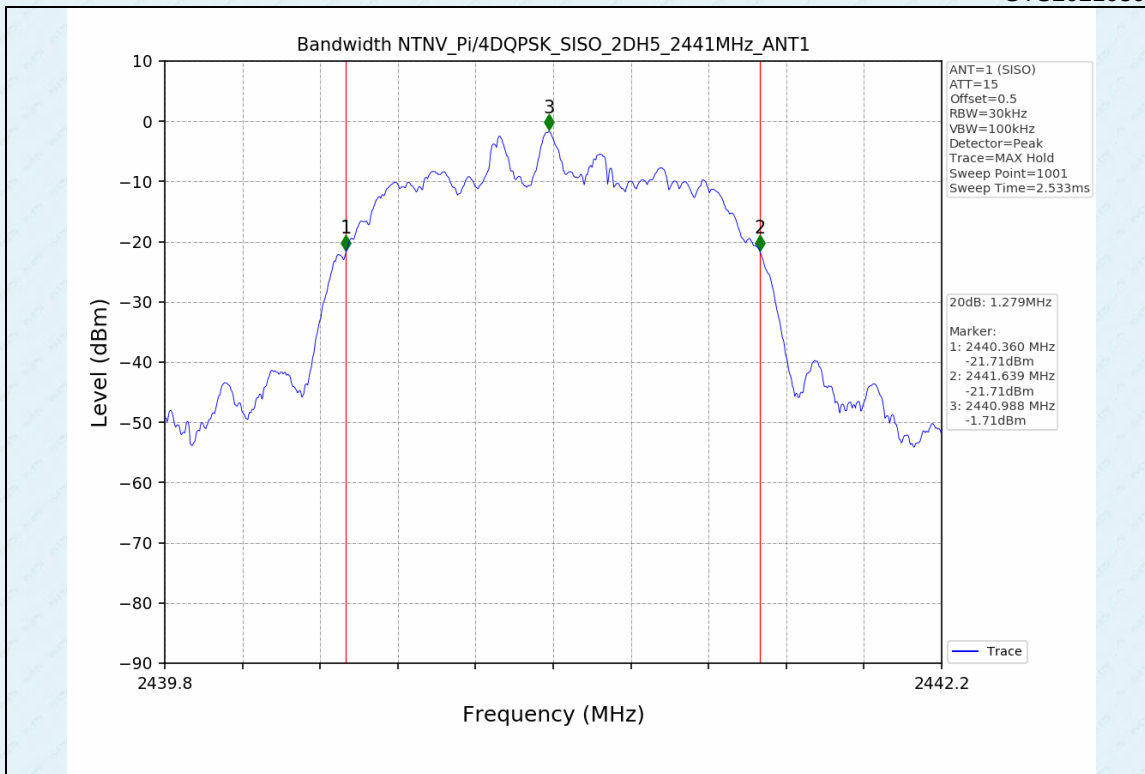
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.947	PASS
	2441	SISO	1	0.955	PASS
	2480	SISO	1	0.950	PASS
$\pi/4$ -DQPSK	2402	SISO	1	1.279	PASS
	2441	SISO	1	1.279	PASS
	2480	SISO	1	1.278	PASS
8-DPSK	2402	SISO	1	1.280	PASS
	2441	SISO	1	1.276	PASS
	2480	SISO	1	1.277	PASS

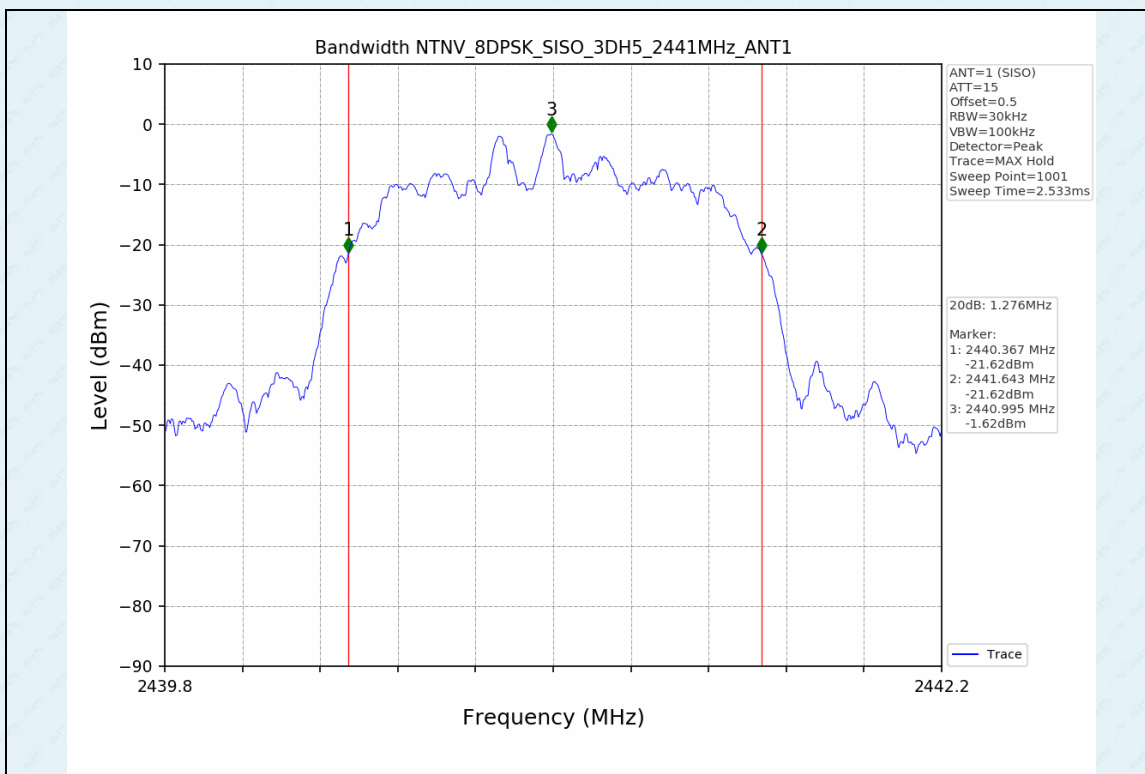
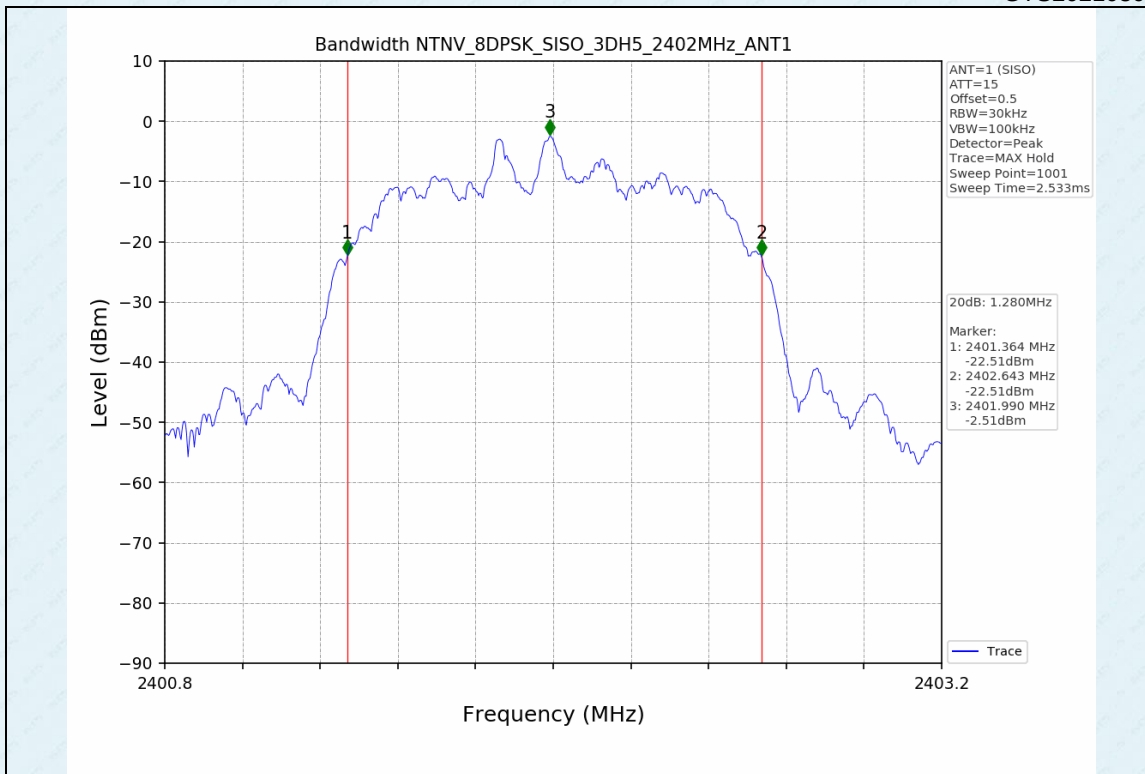
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.850	Only for Report Use
	2441	SISO	1	0.849	Only for Report Use
	2480	SISO	1	0.852	Only for Report Use
$\pi/4$ -DQPSK	2402	SISO	1	1.172	Only for Report Use
	2441	SISO	1	1.172	Only for Report Use
	2480	SISO	1	1.176	Only for Report Use
8-DPSK	2402	SISO	1	1.168	Only for Report Use
	2441	SISO	1	1.168	Only for Report Use
	2480	SISO	1	1.170	Only for Report Use

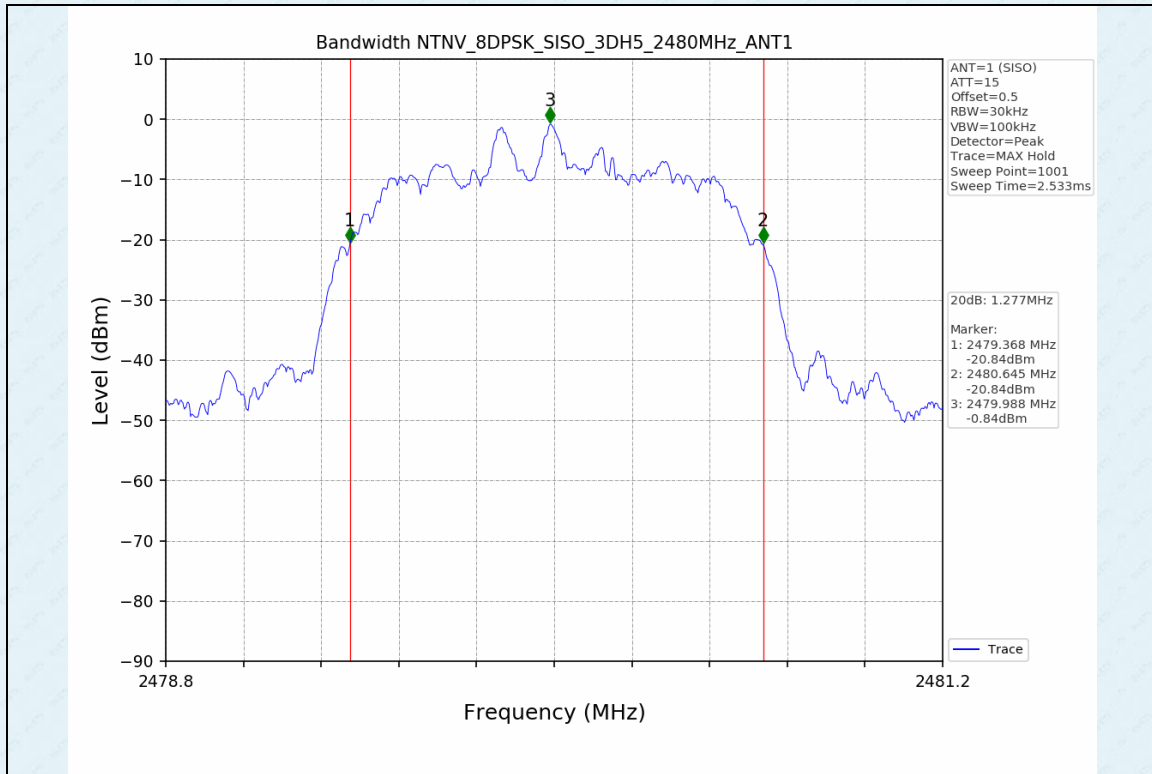
1.2 Test Graph - 20dB Bandwidth



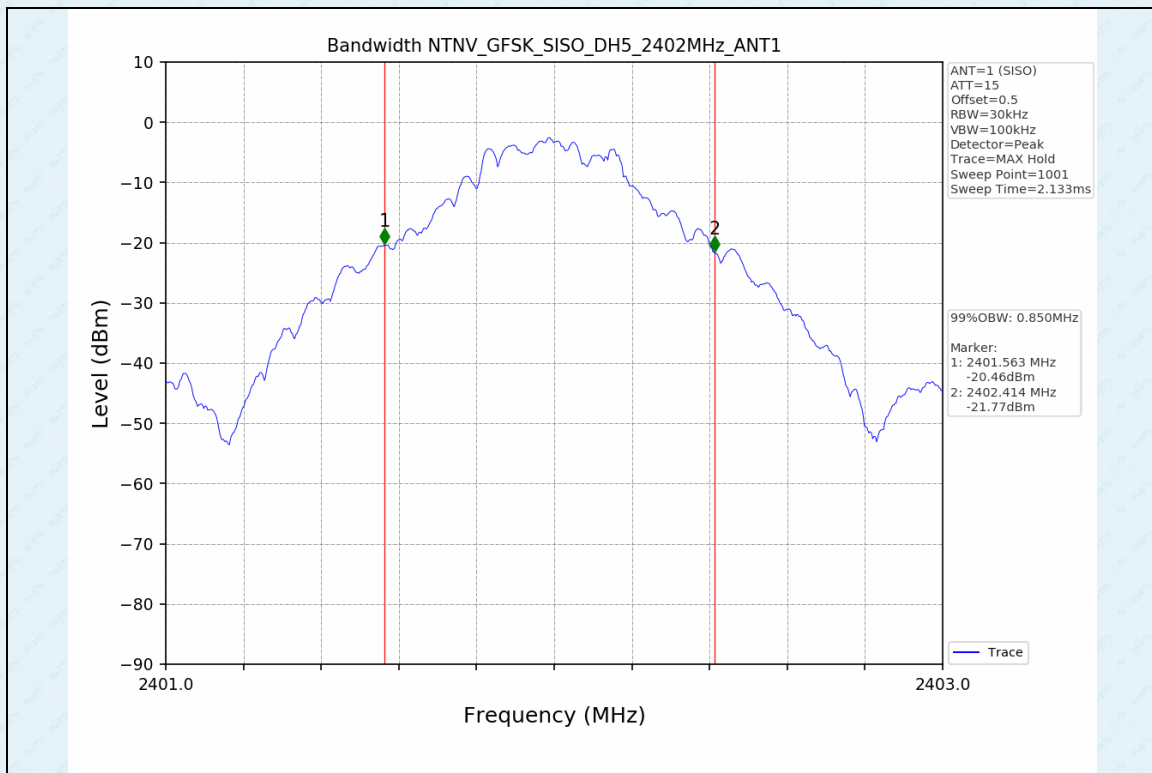


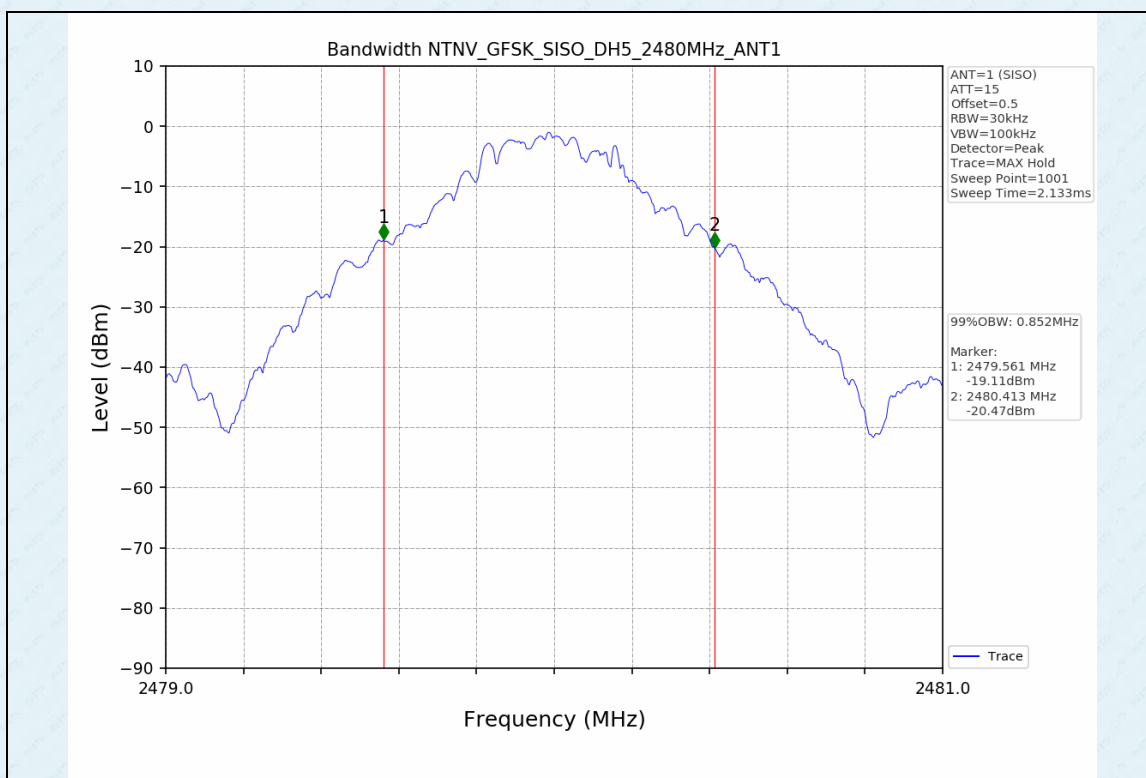
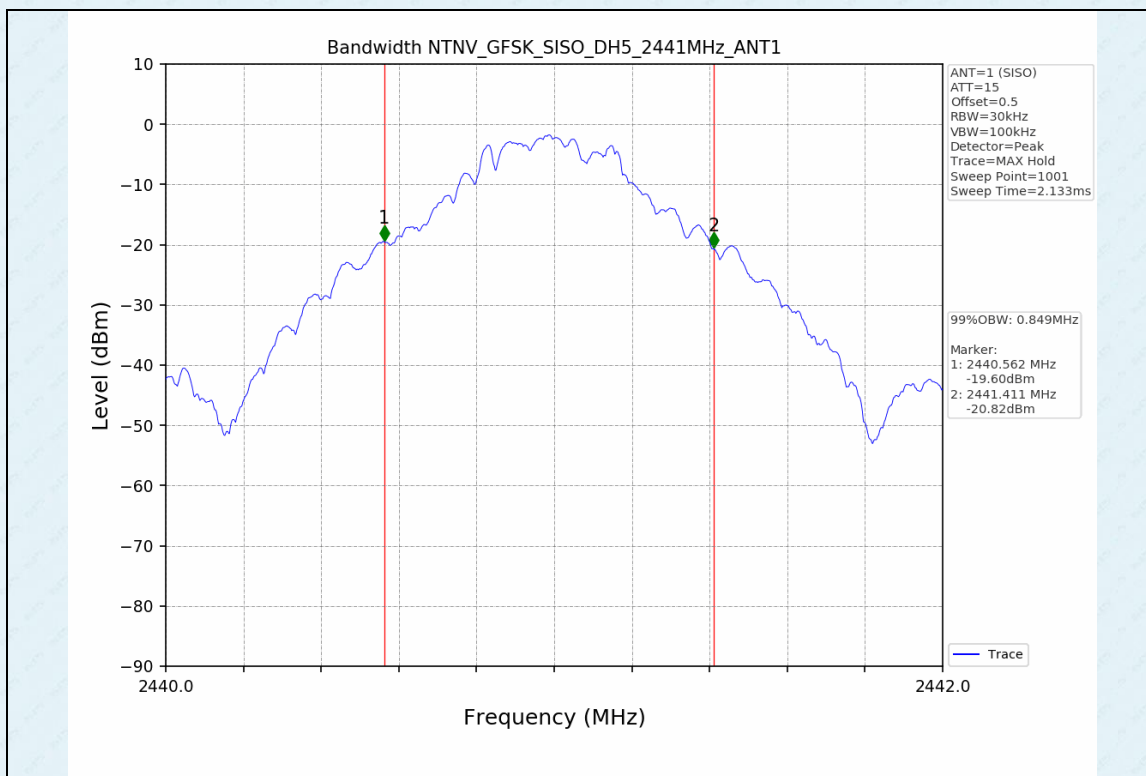


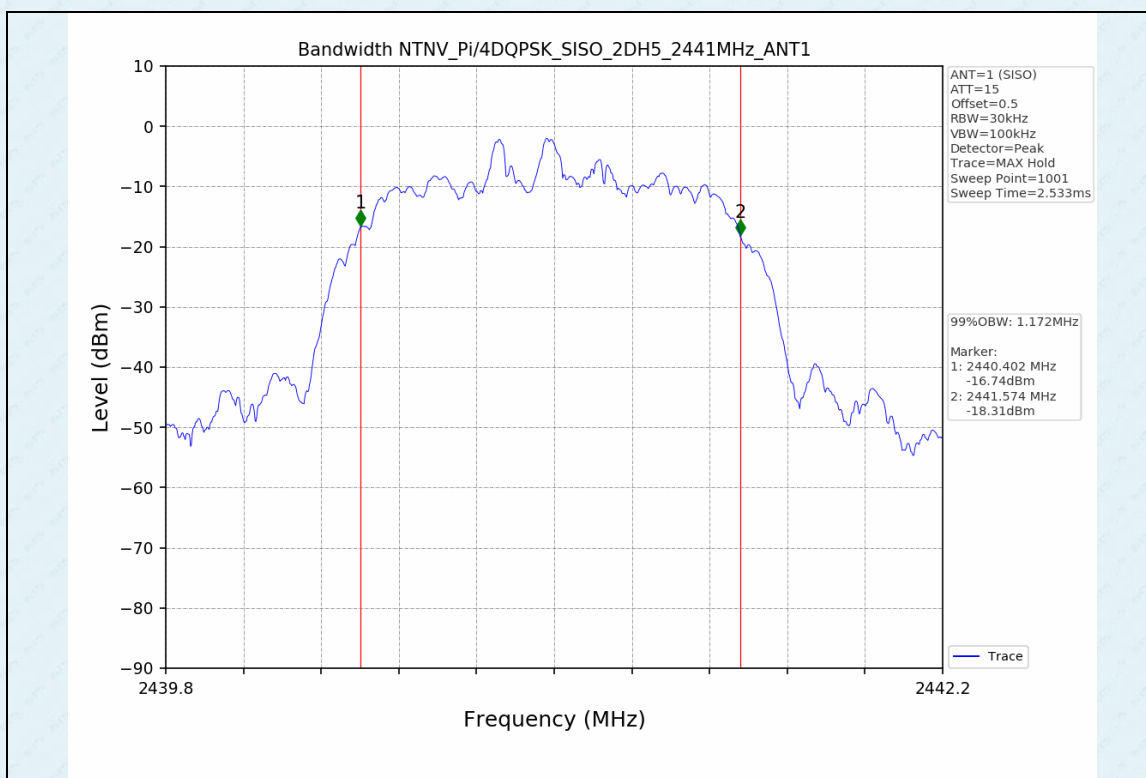
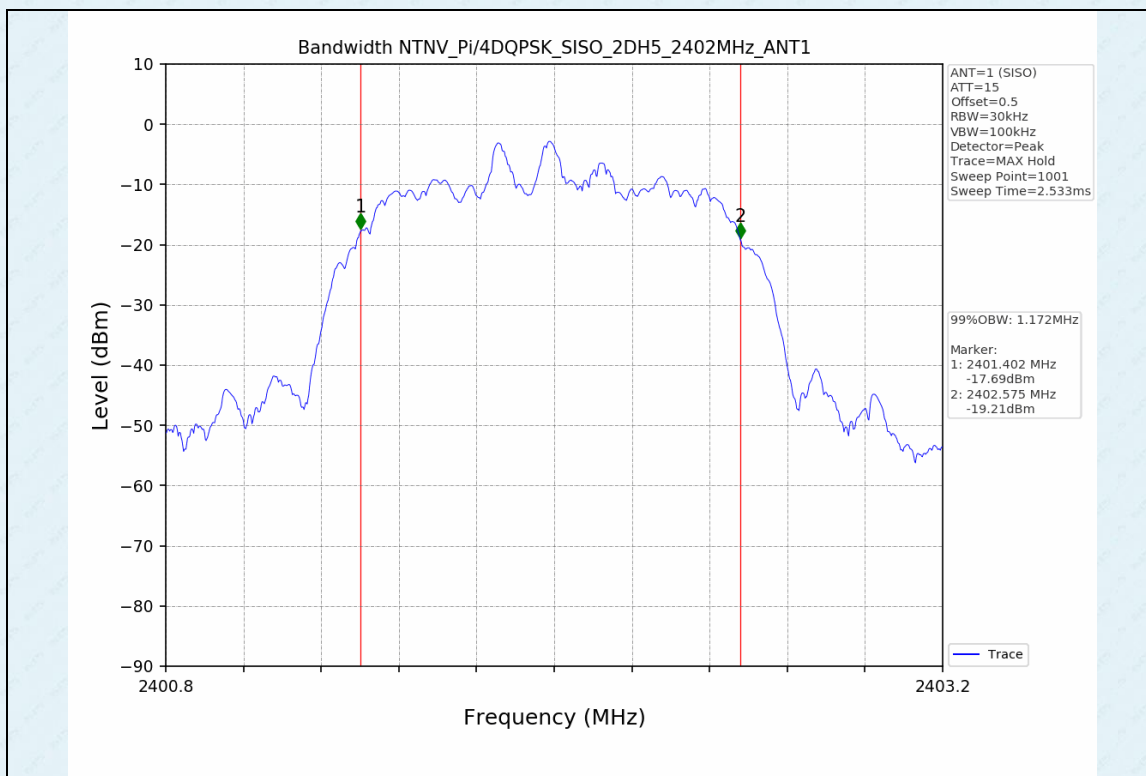


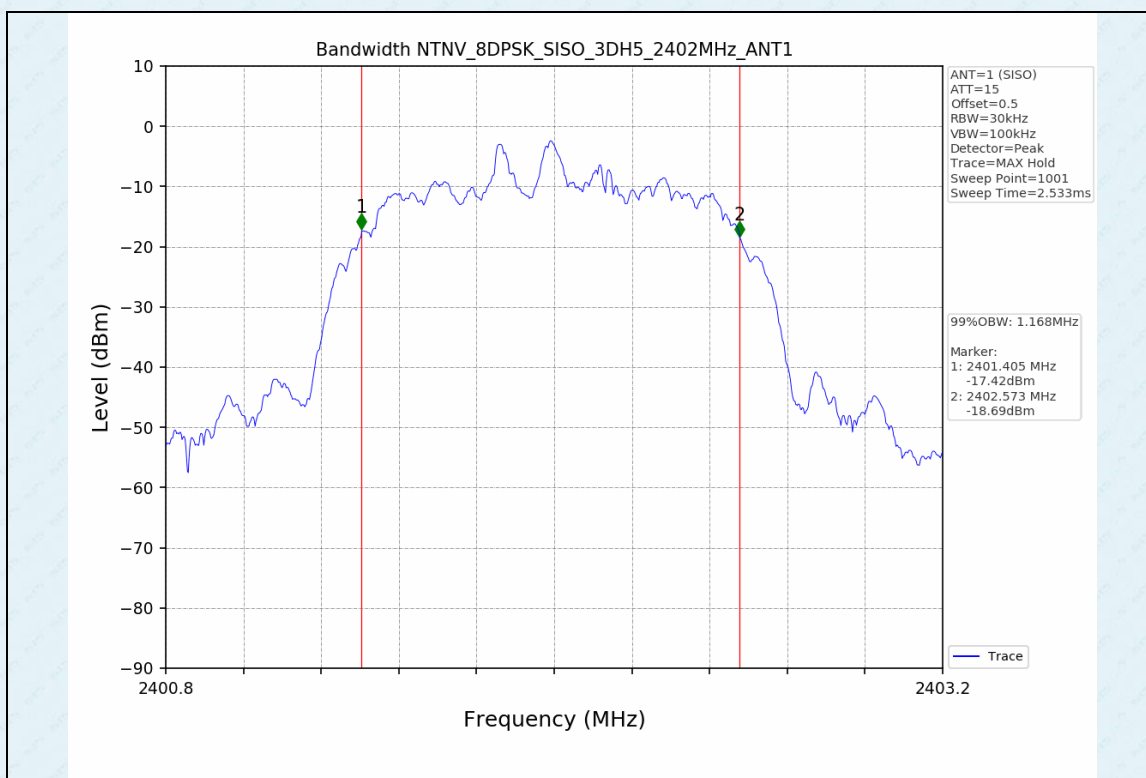
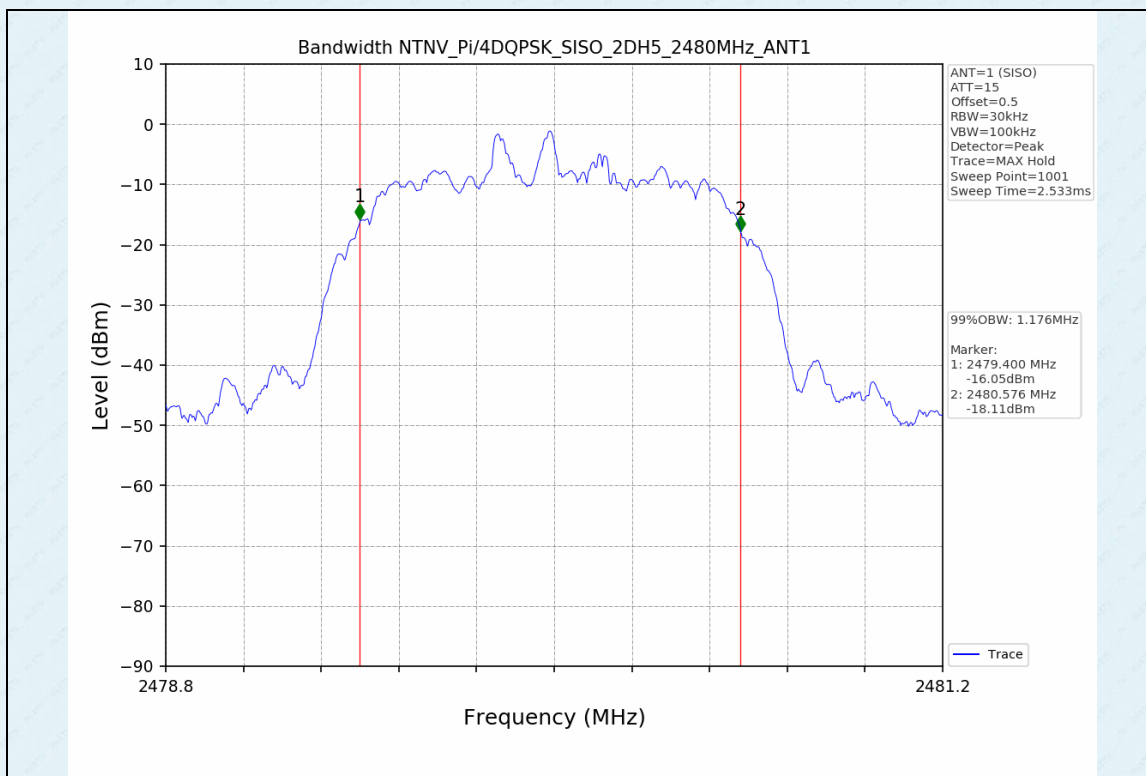


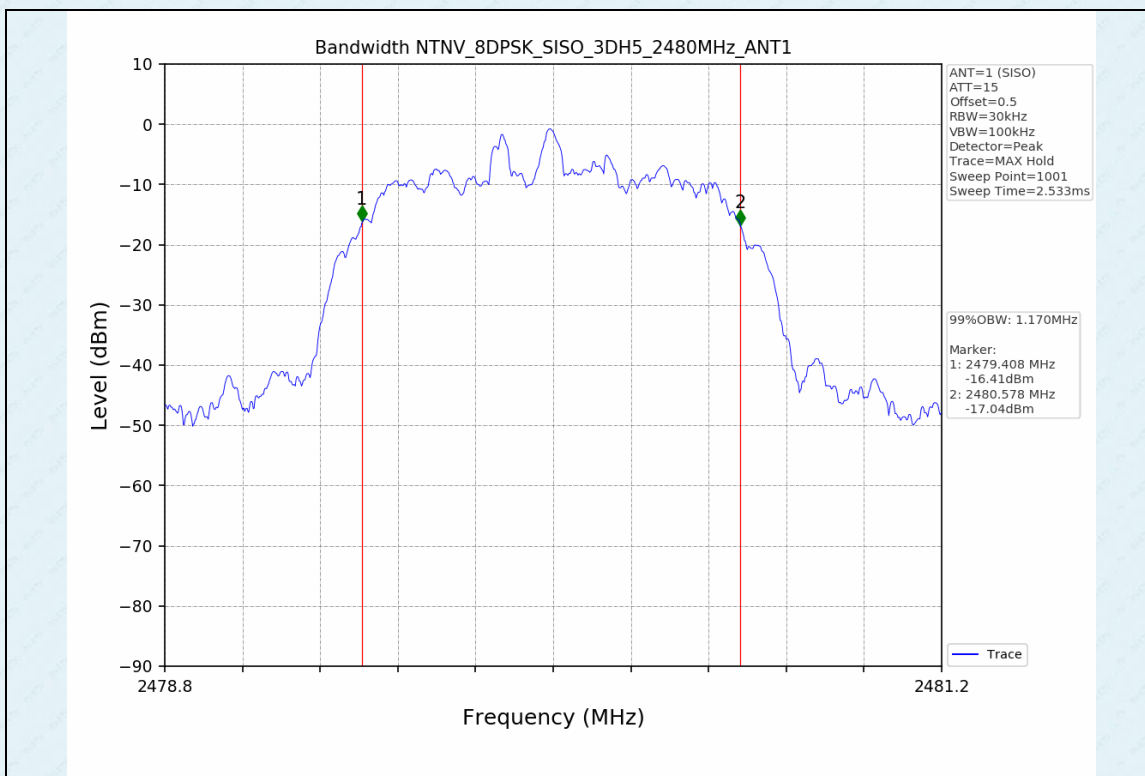
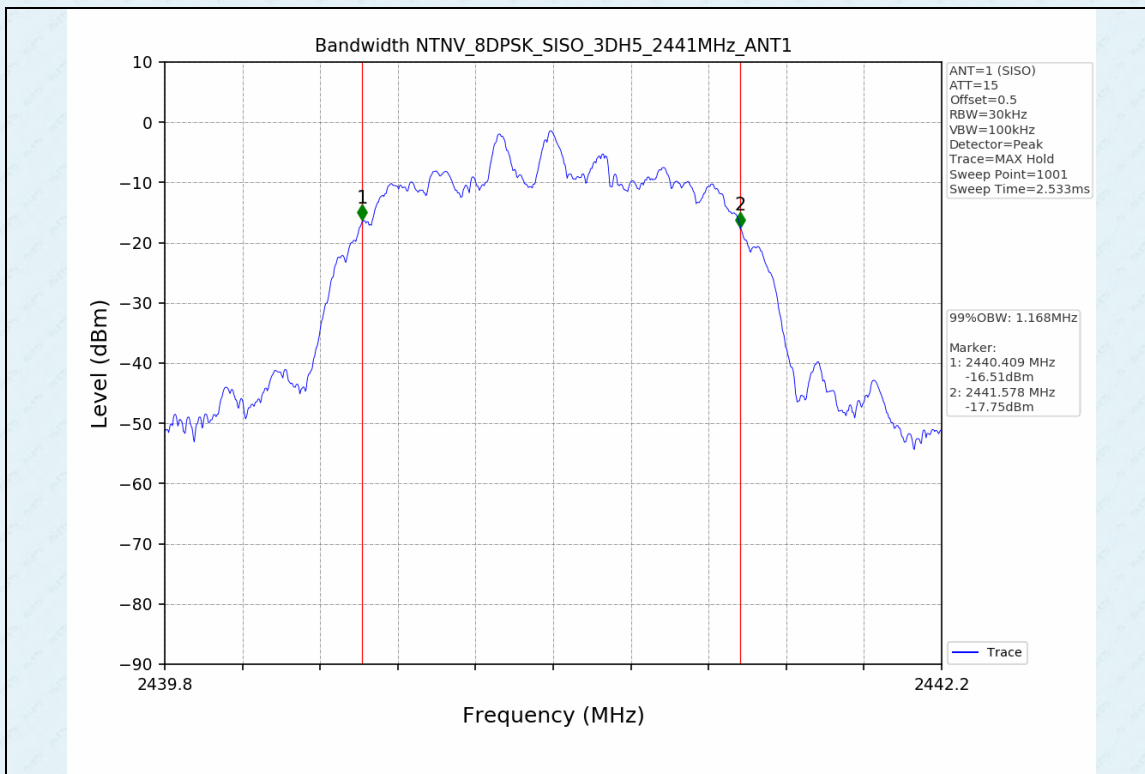
1.3 Test Graph - 99% Occupied Bandwidth









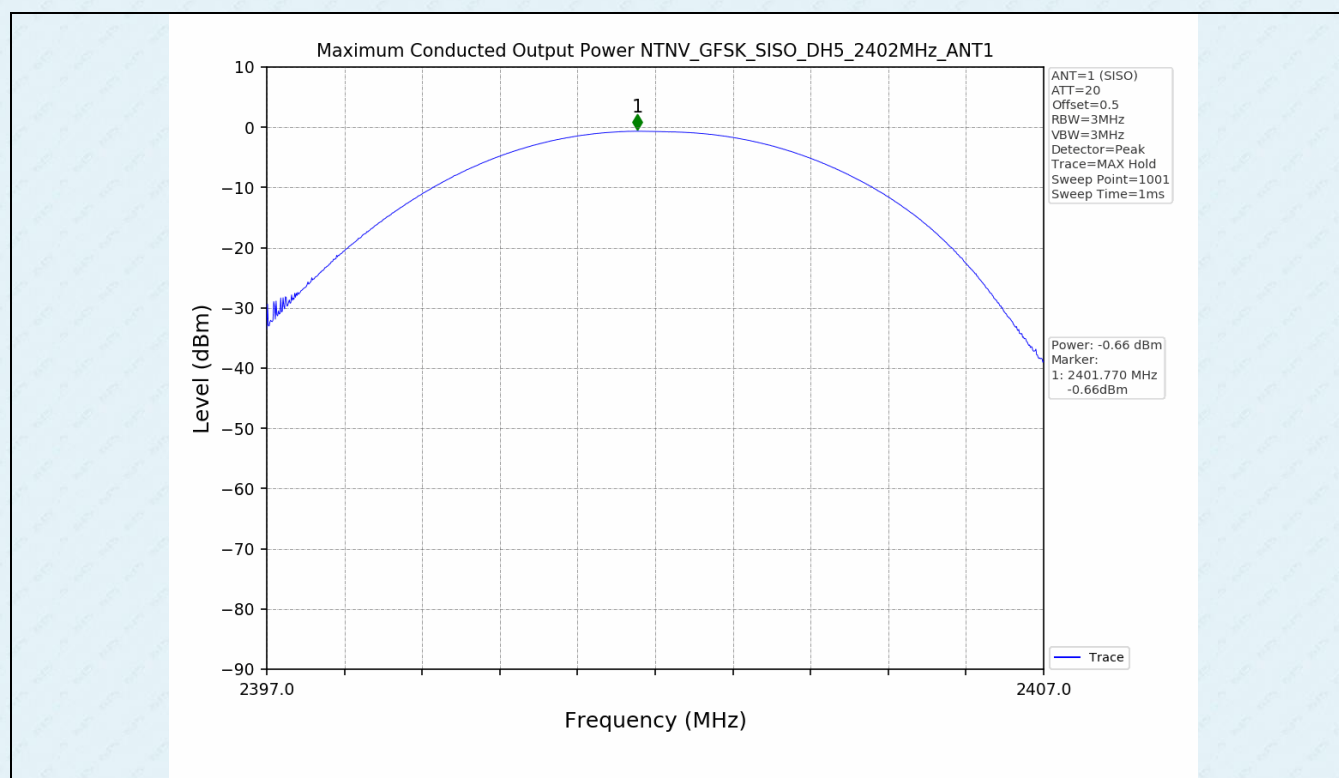


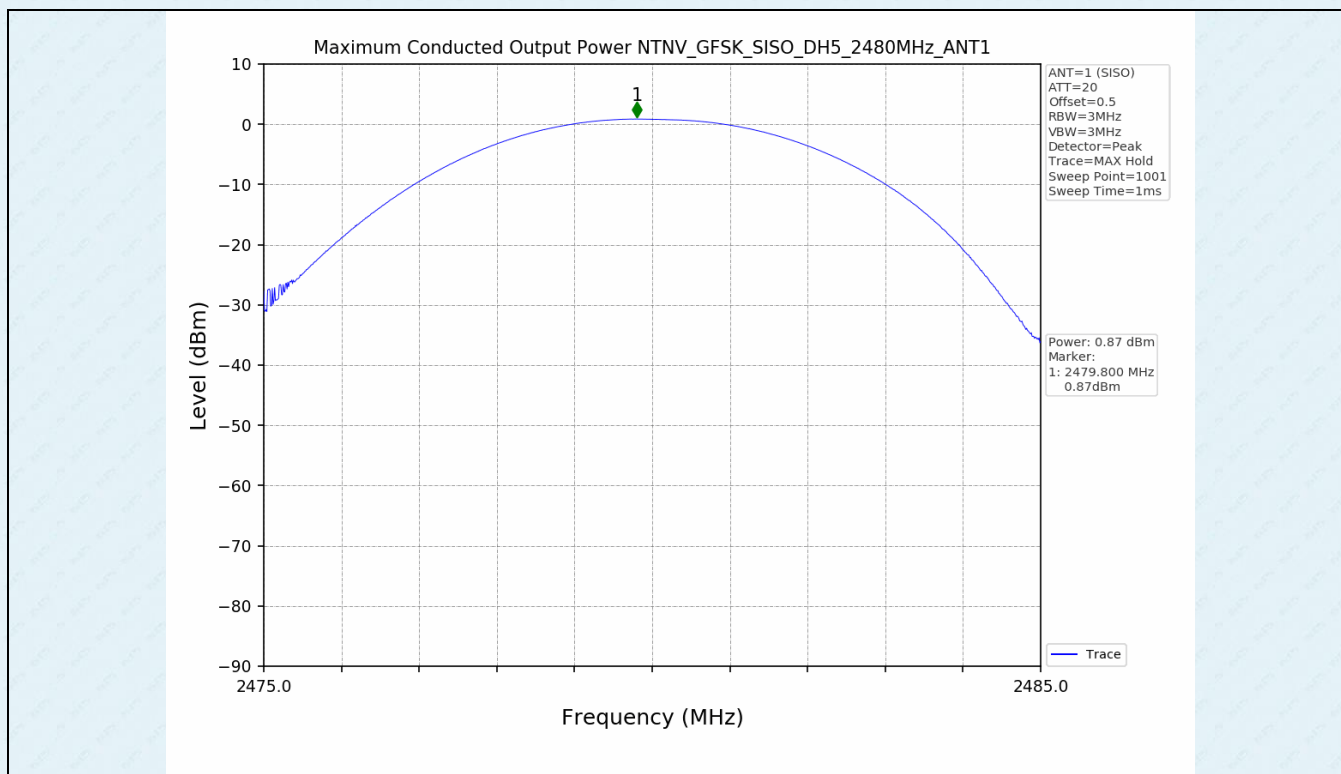
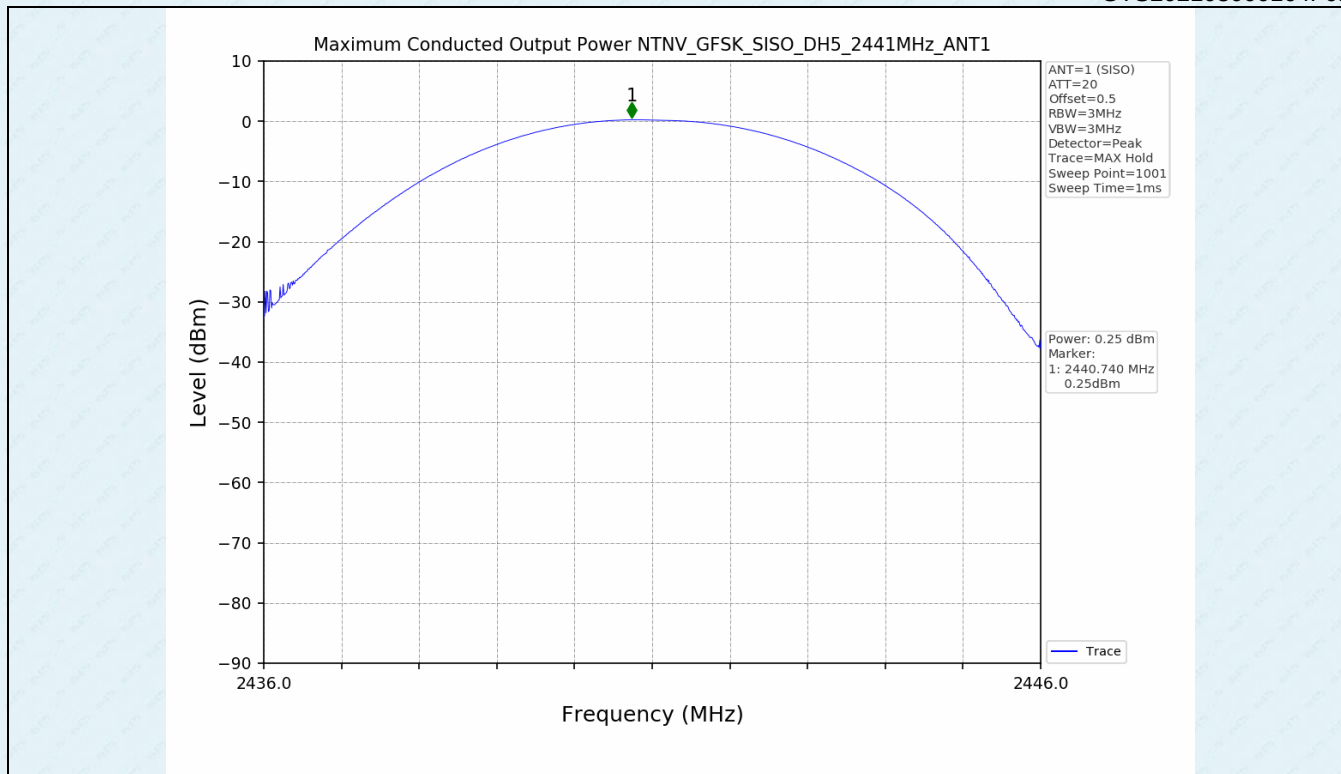
2. Maximum Conducted Output Power

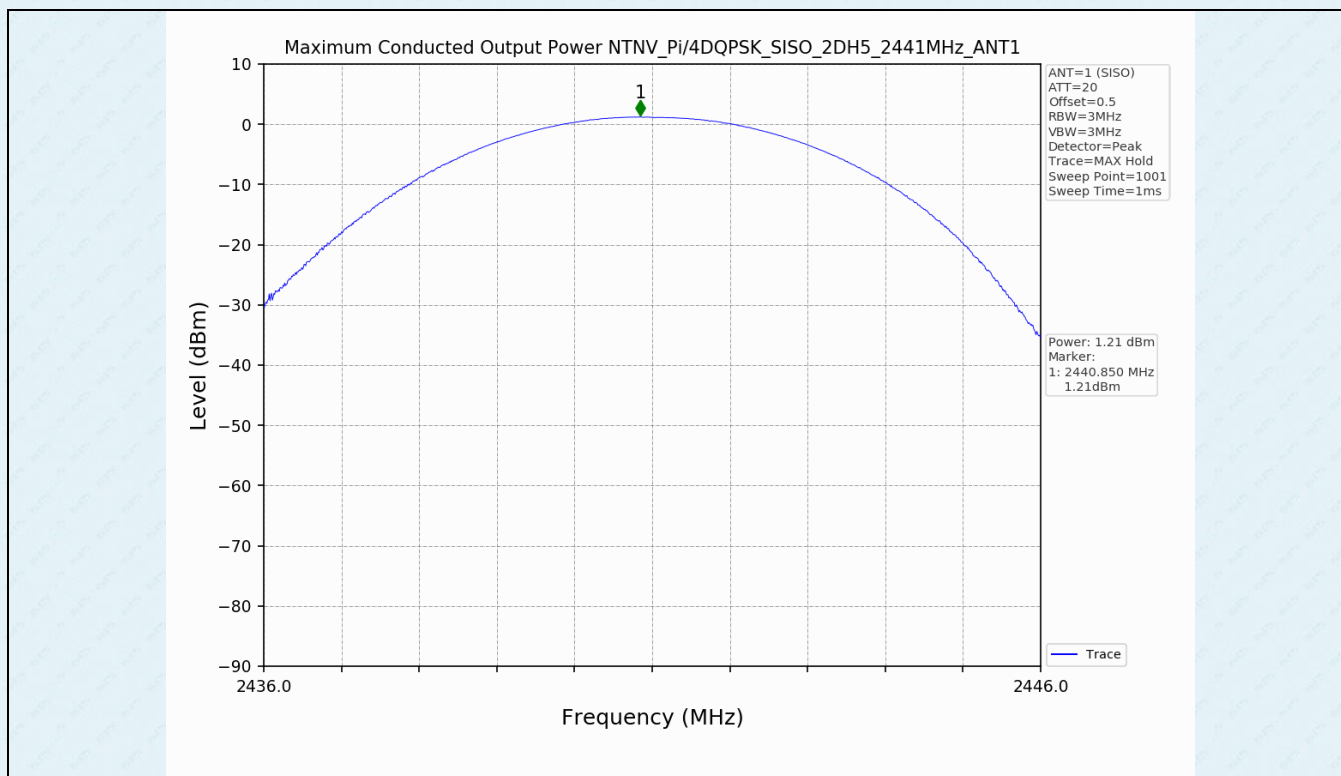
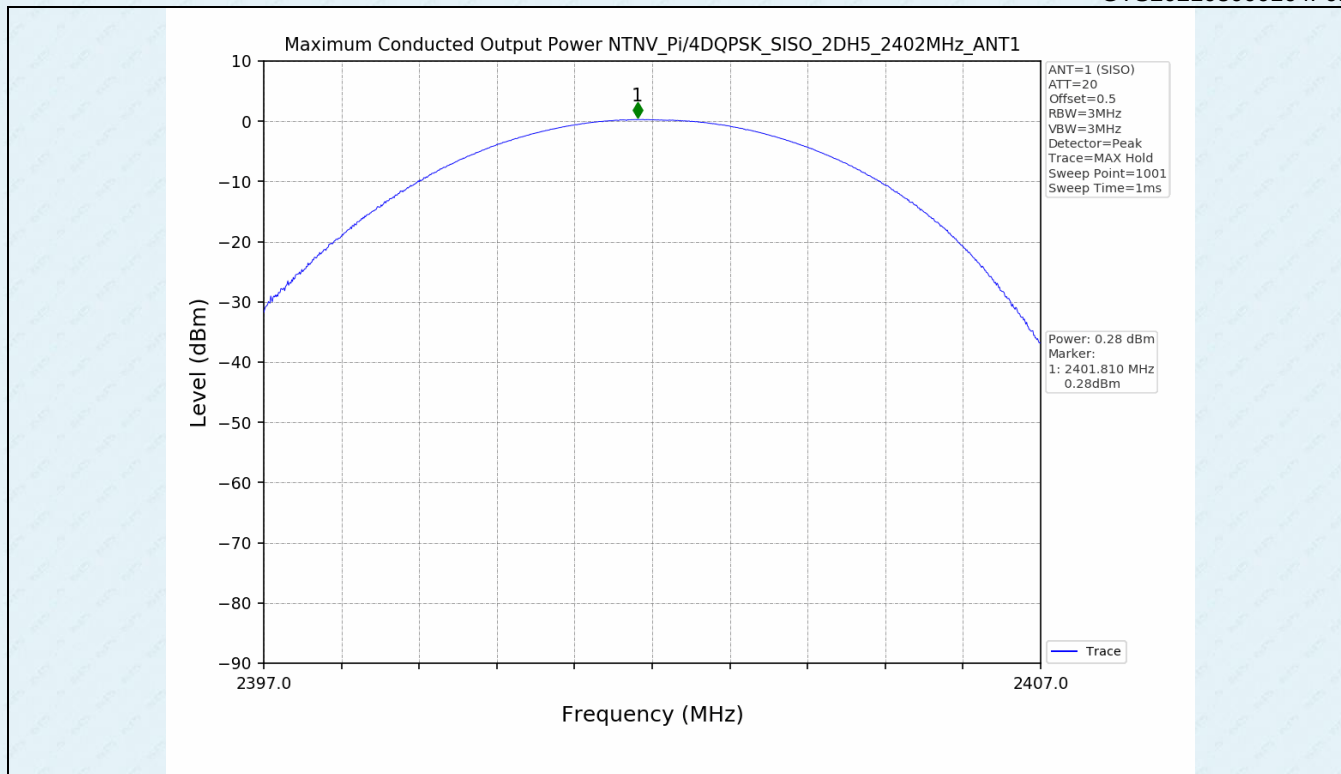
2.1 Test Result

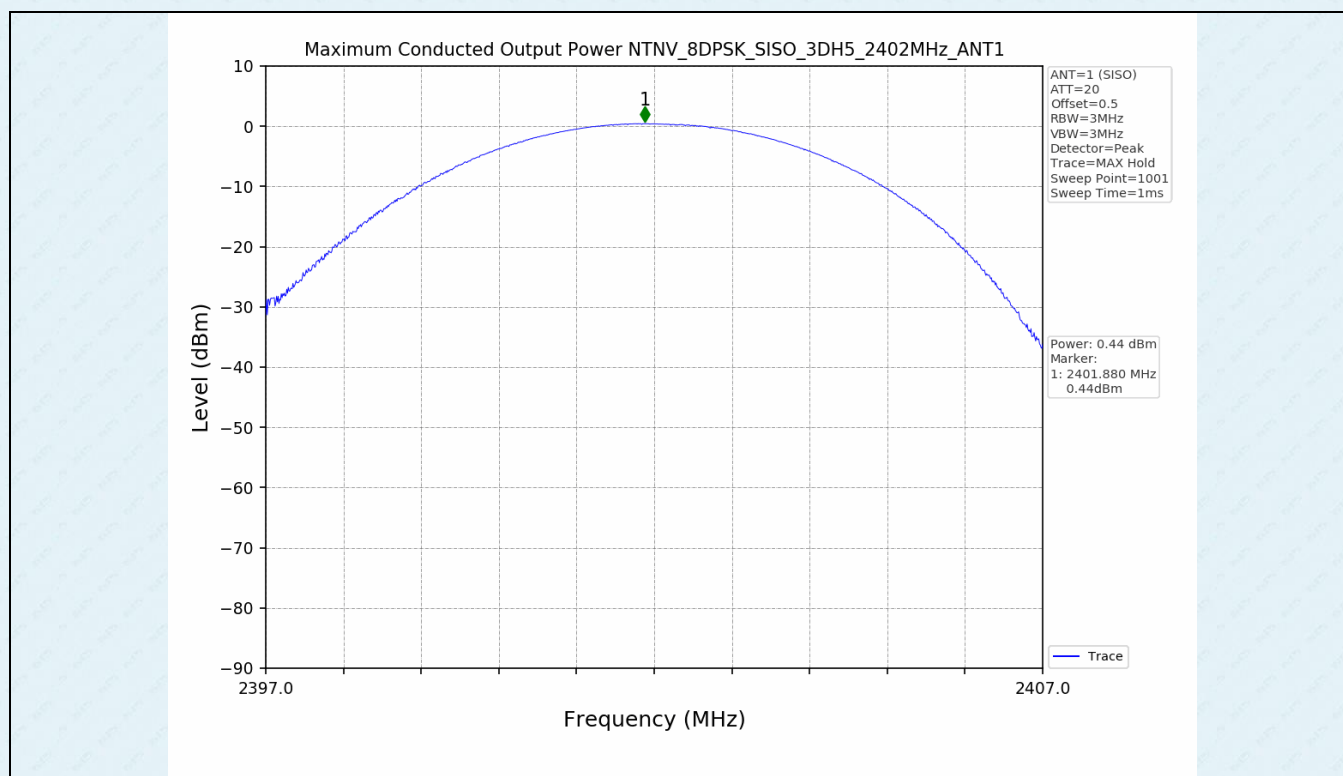
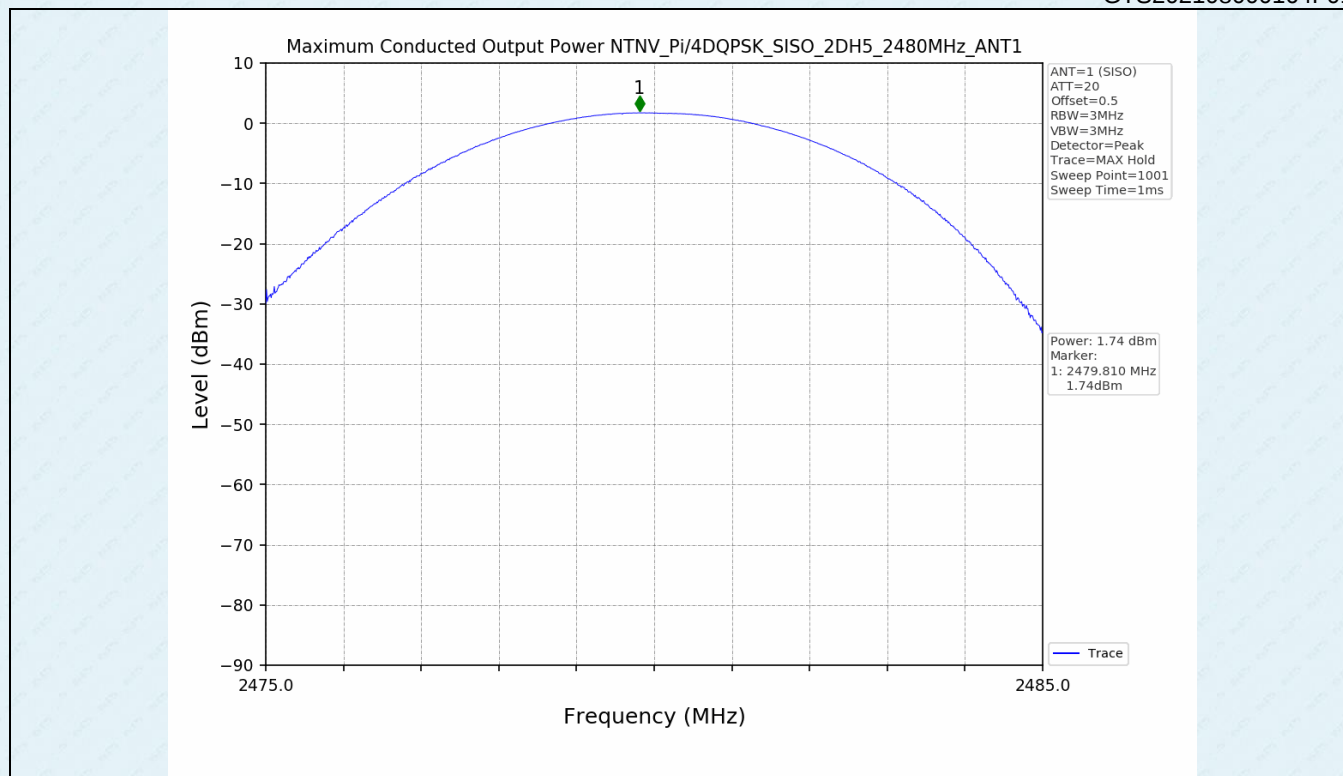
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	-0.66	30	PASS
	2441	SISO	0.25	30	PASS
	2480	SISO	0.87	30	PASS
$\pi/4$ -DQPSK	2402	SISO	0.28	20.97	PASS
	2441	SISO	1.21	20.97	PASS
	2480	SISO	1.74	20.97	PASS
8-DPSK	2402	SISO	0.44	20.97	PASS
	2441	SISO	1.39	20.97	PASS
	2480	SISO	1.97	20.97	PASS

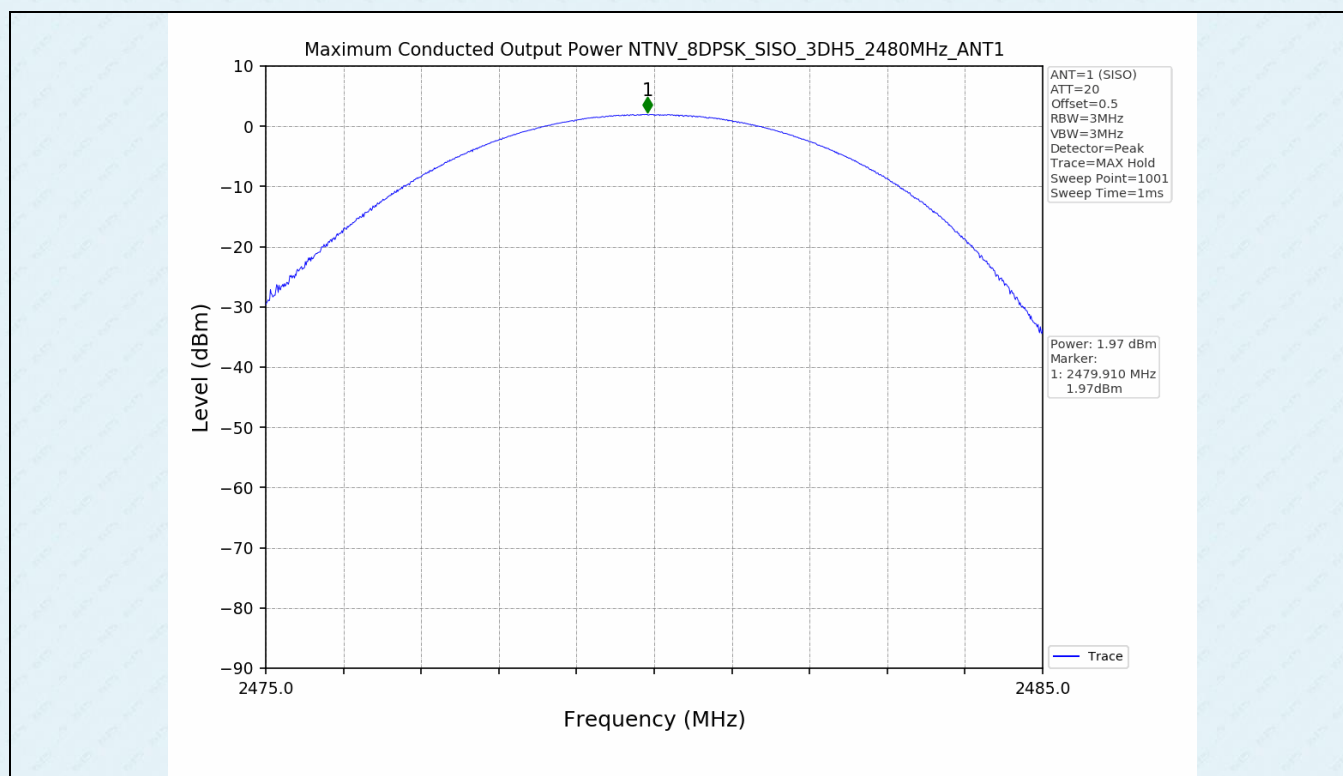
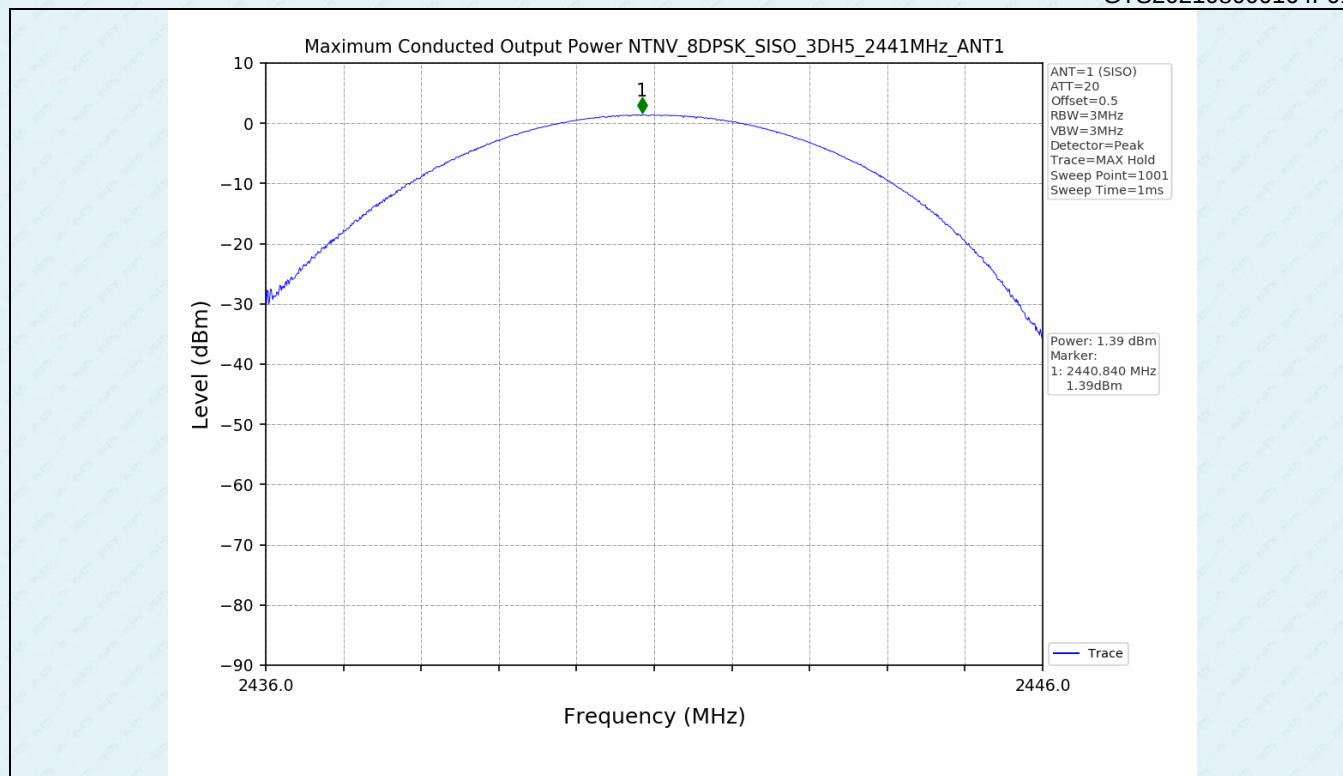
2.2 Test Graph









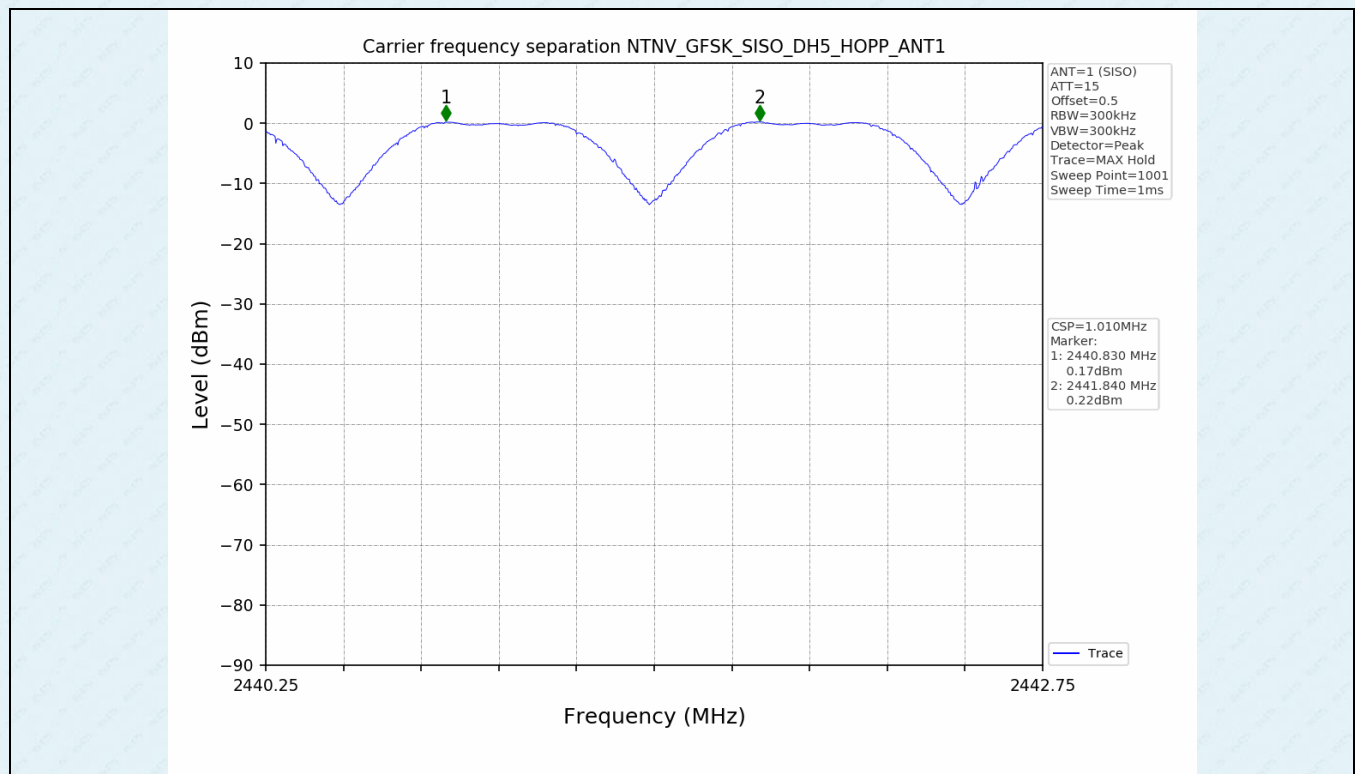


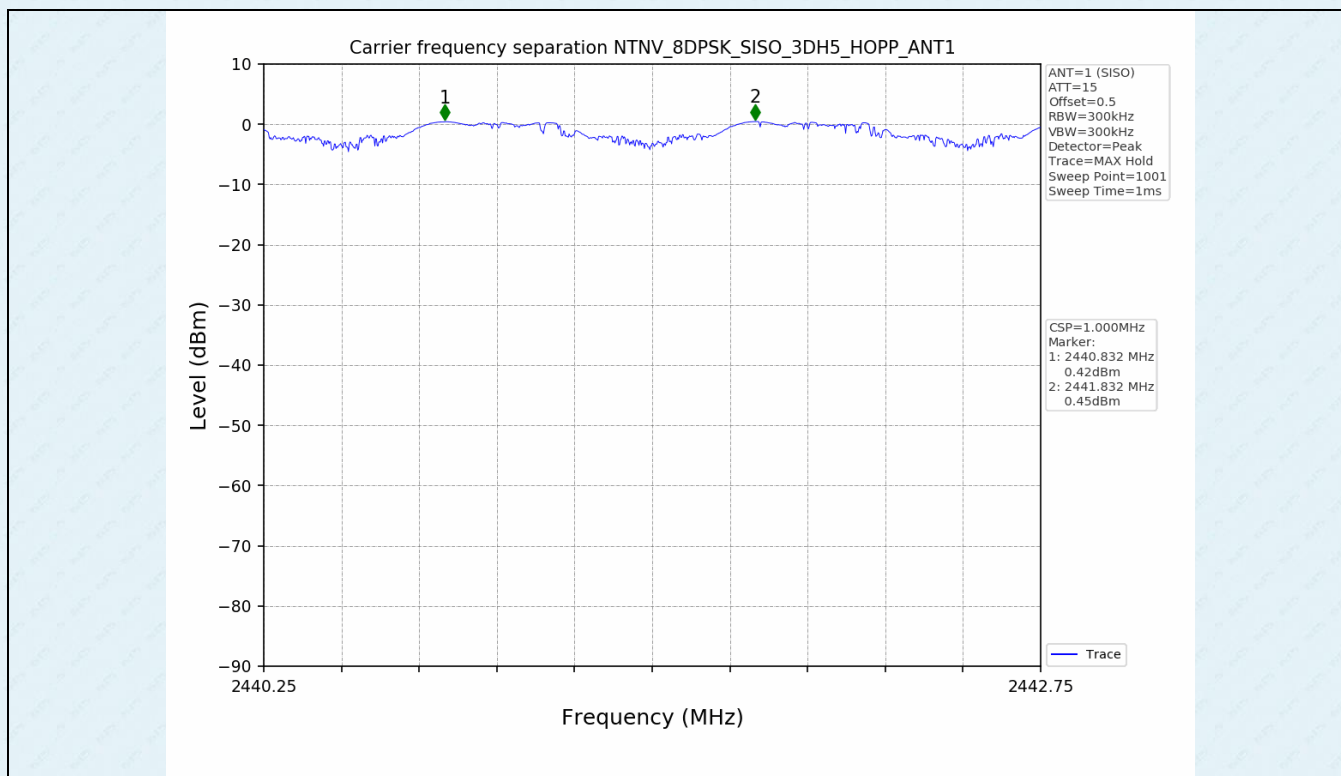
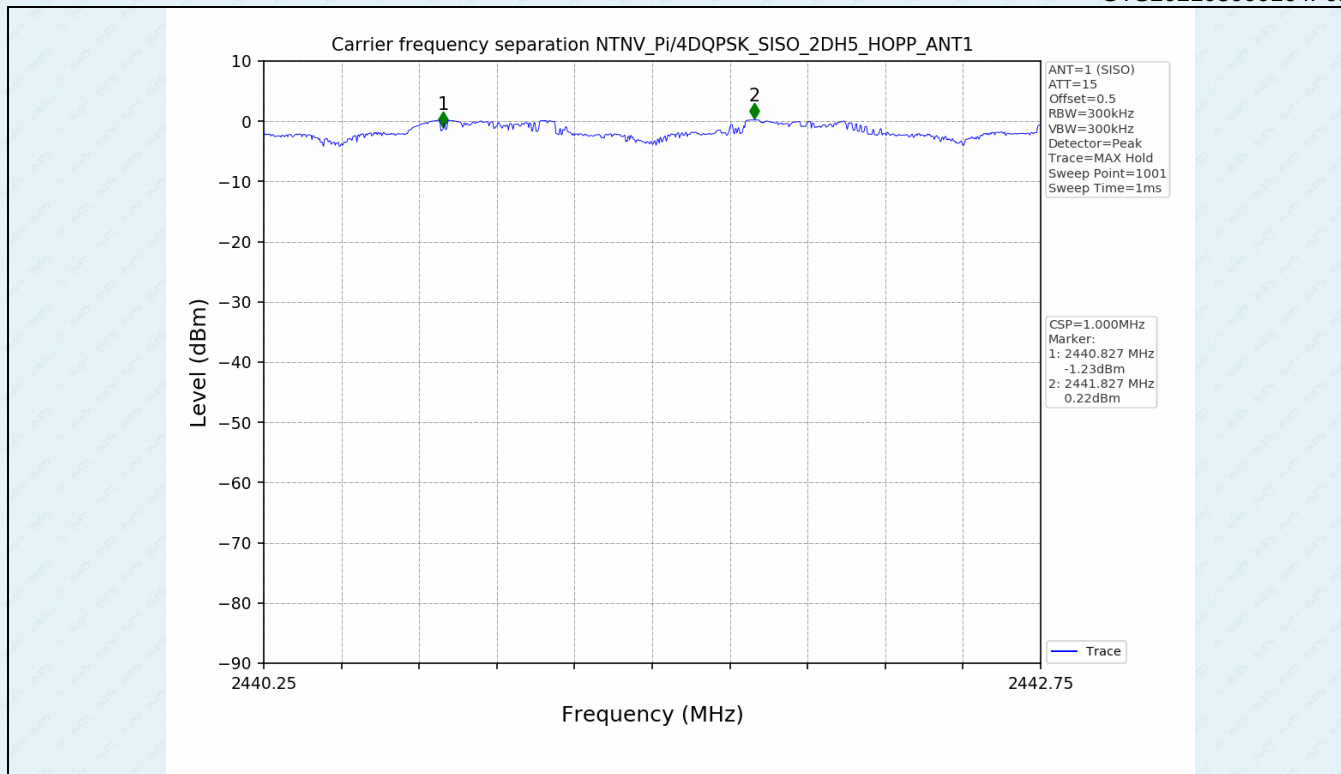
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.010	0.955	≥ 0.955	PASS
$\pi/4$ -DQPSK	SISO	1	1.000	1.279	≥ 0.853	PASS
8-DPSK	SISO	1	1.000	1.280	≥ 0.853	PASS

3.2 Test Graph



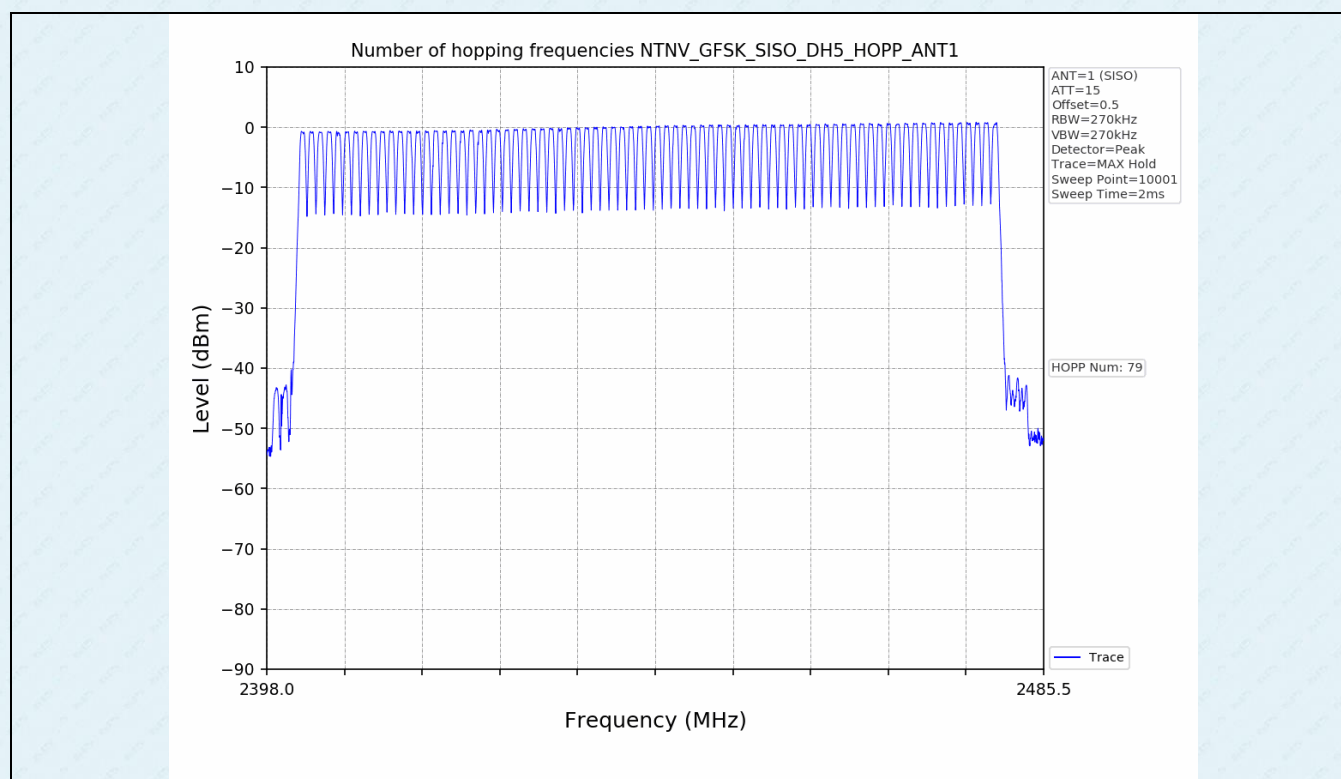


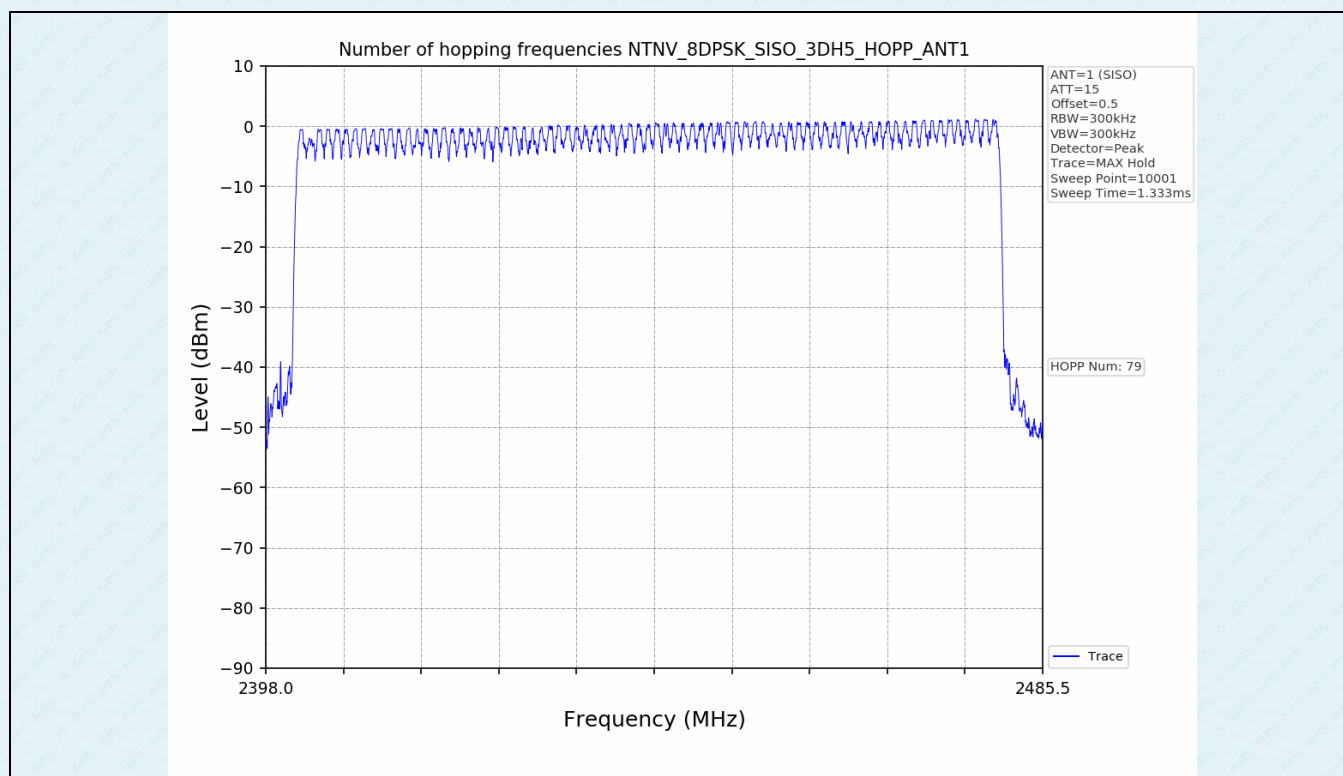
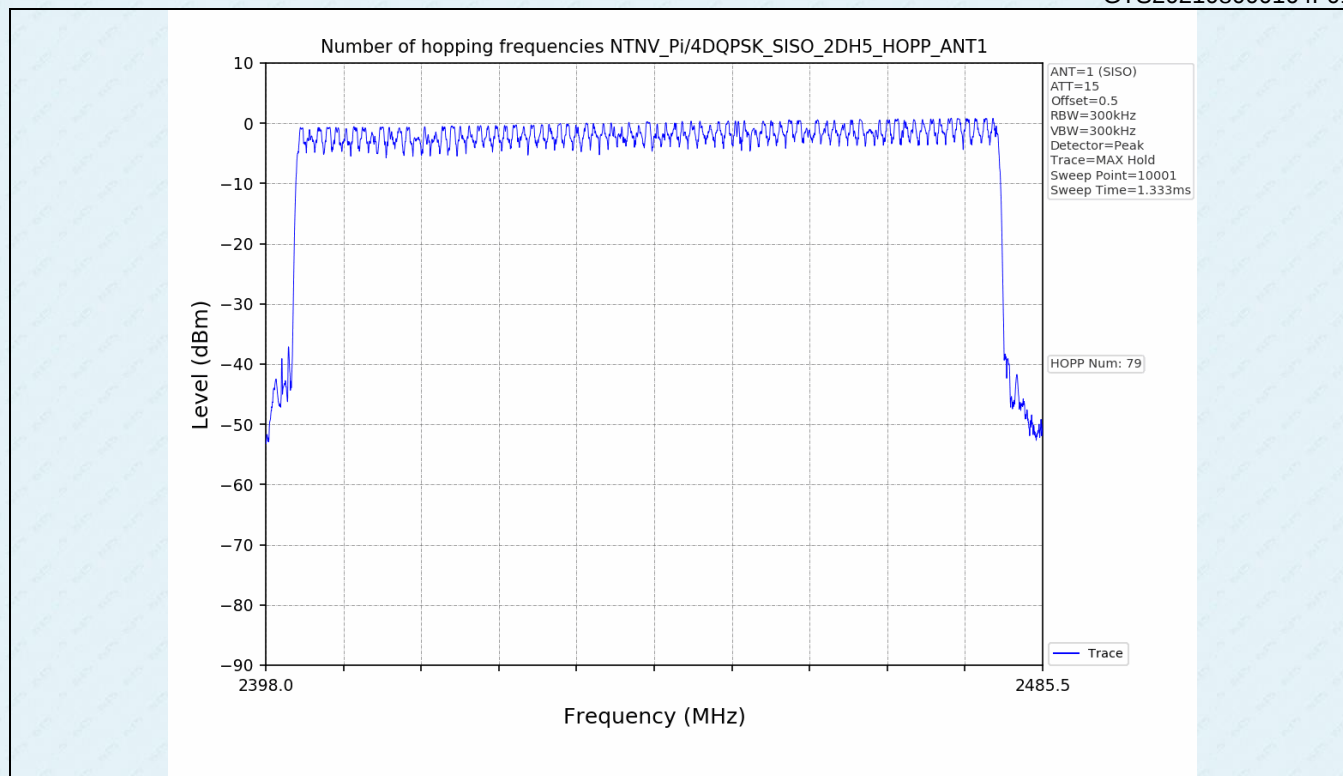
4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph



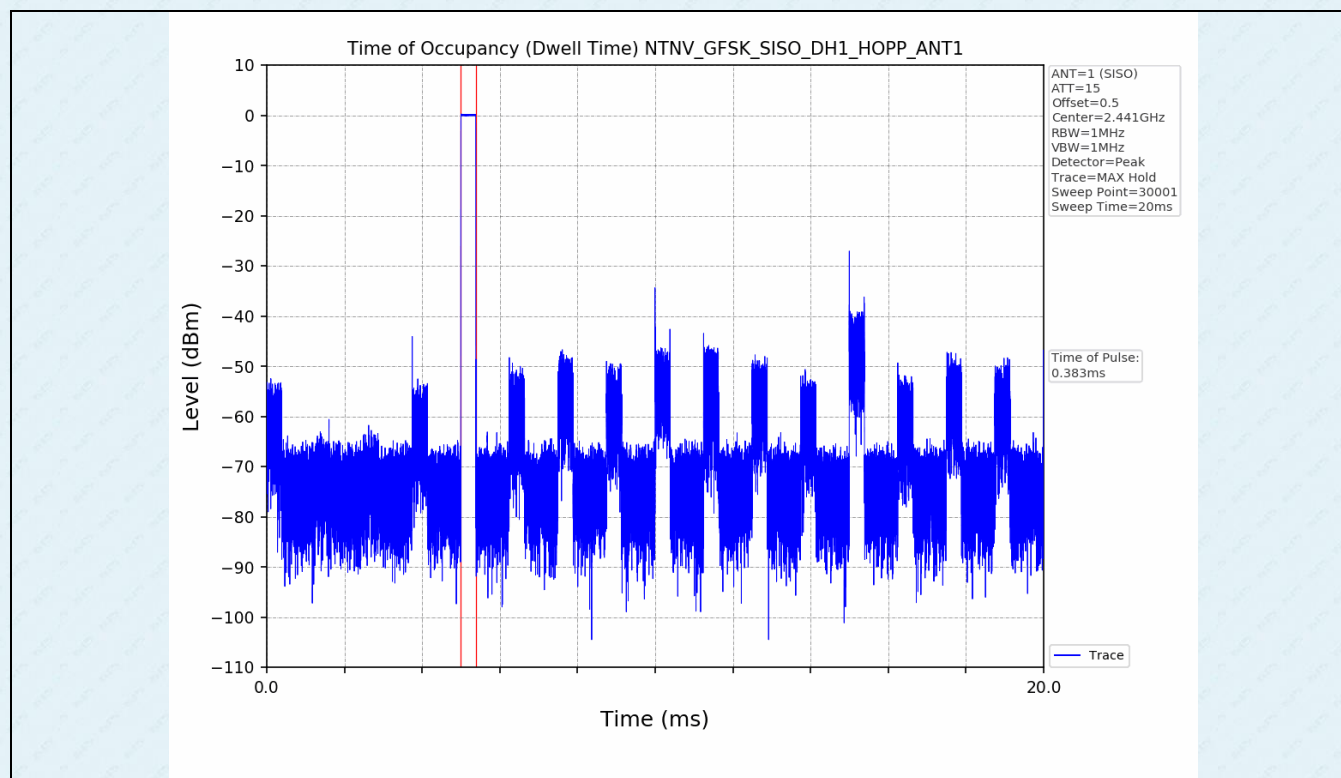


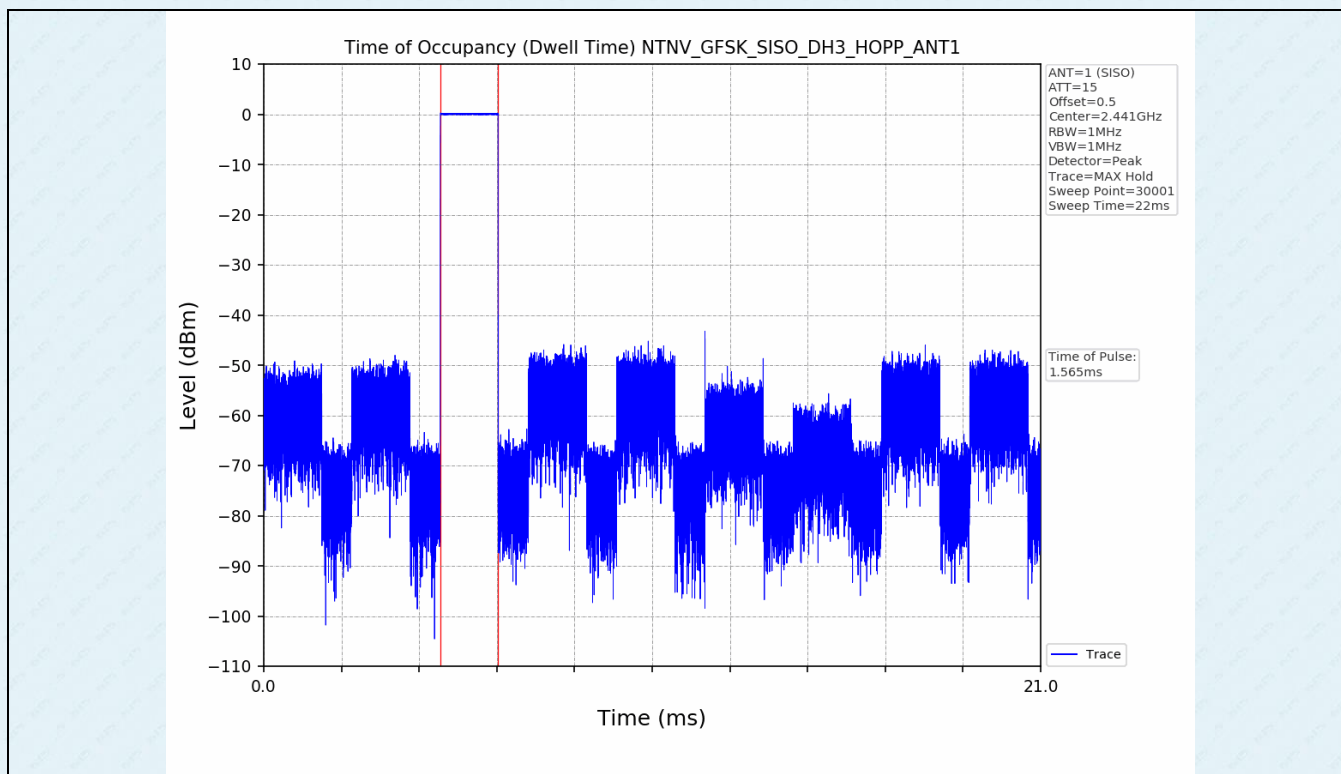
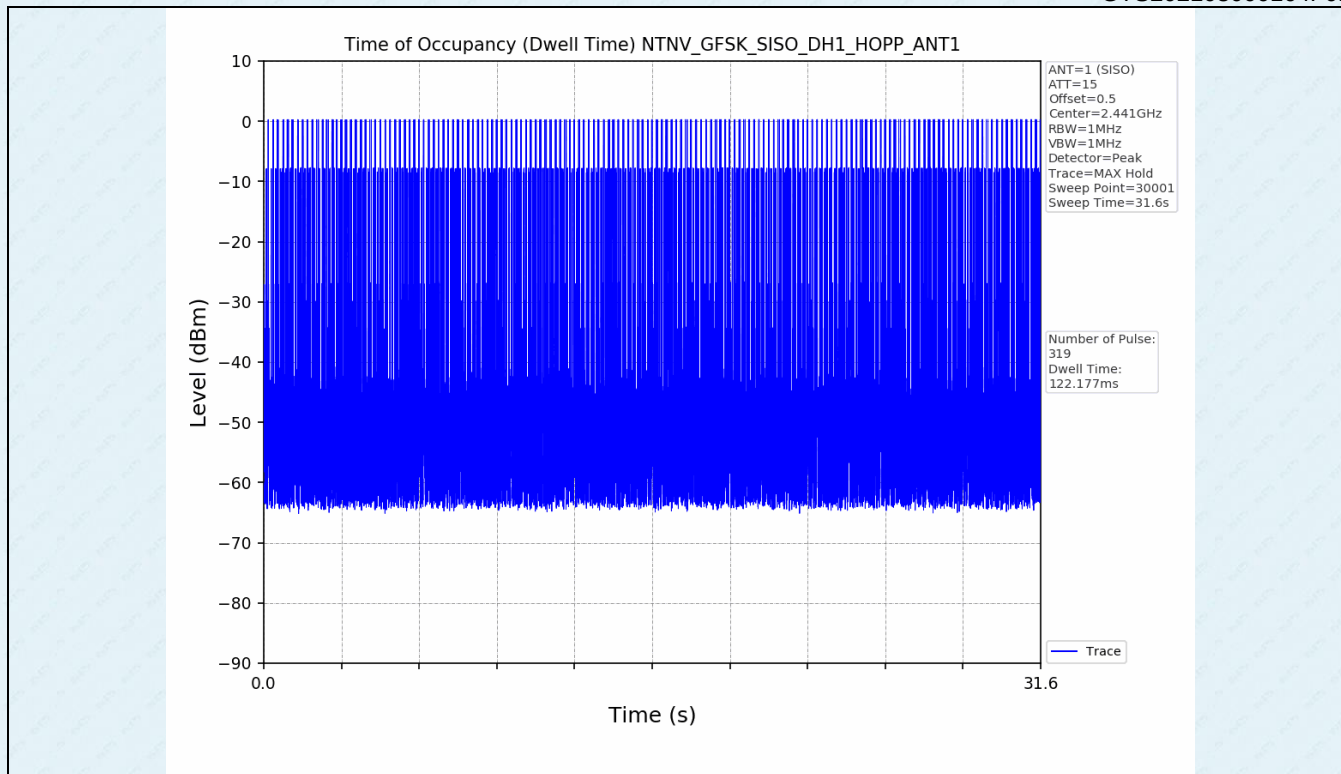
5. Time of Occupancy (Dwell Time)

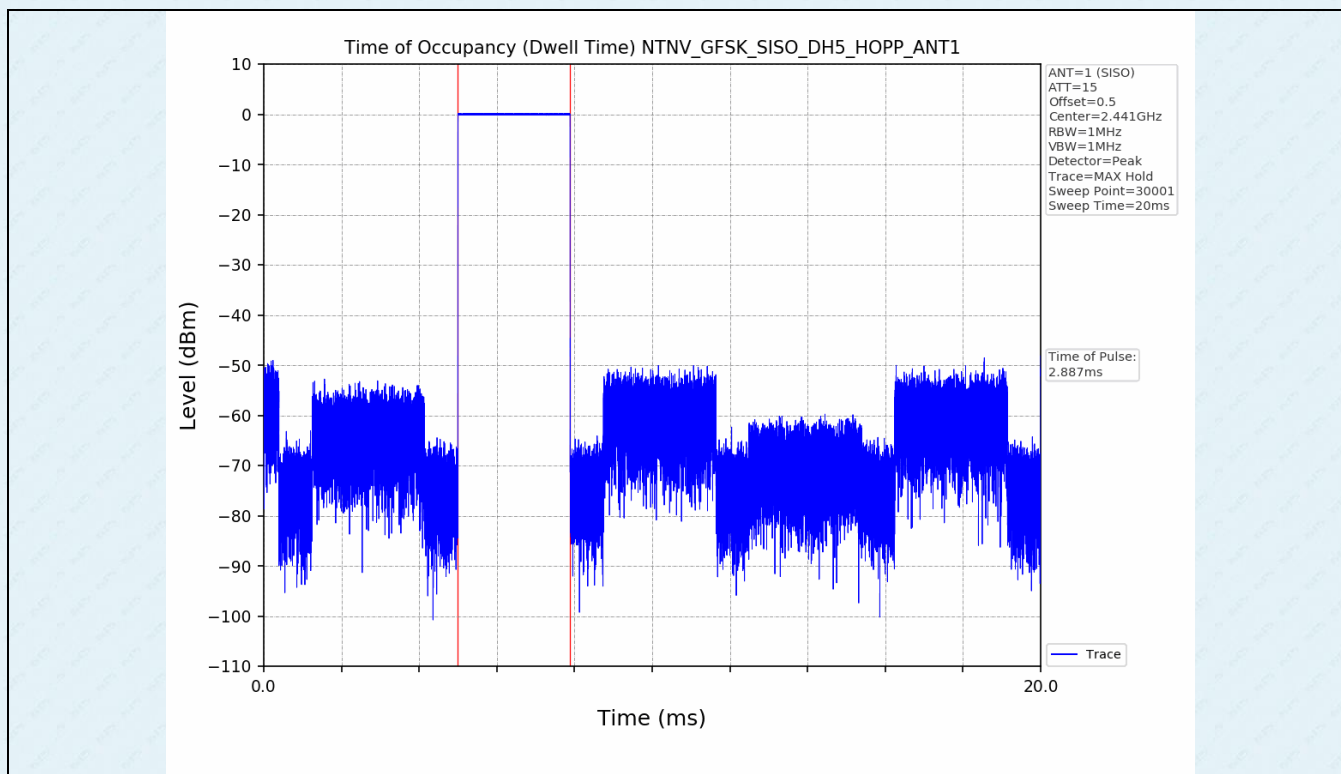
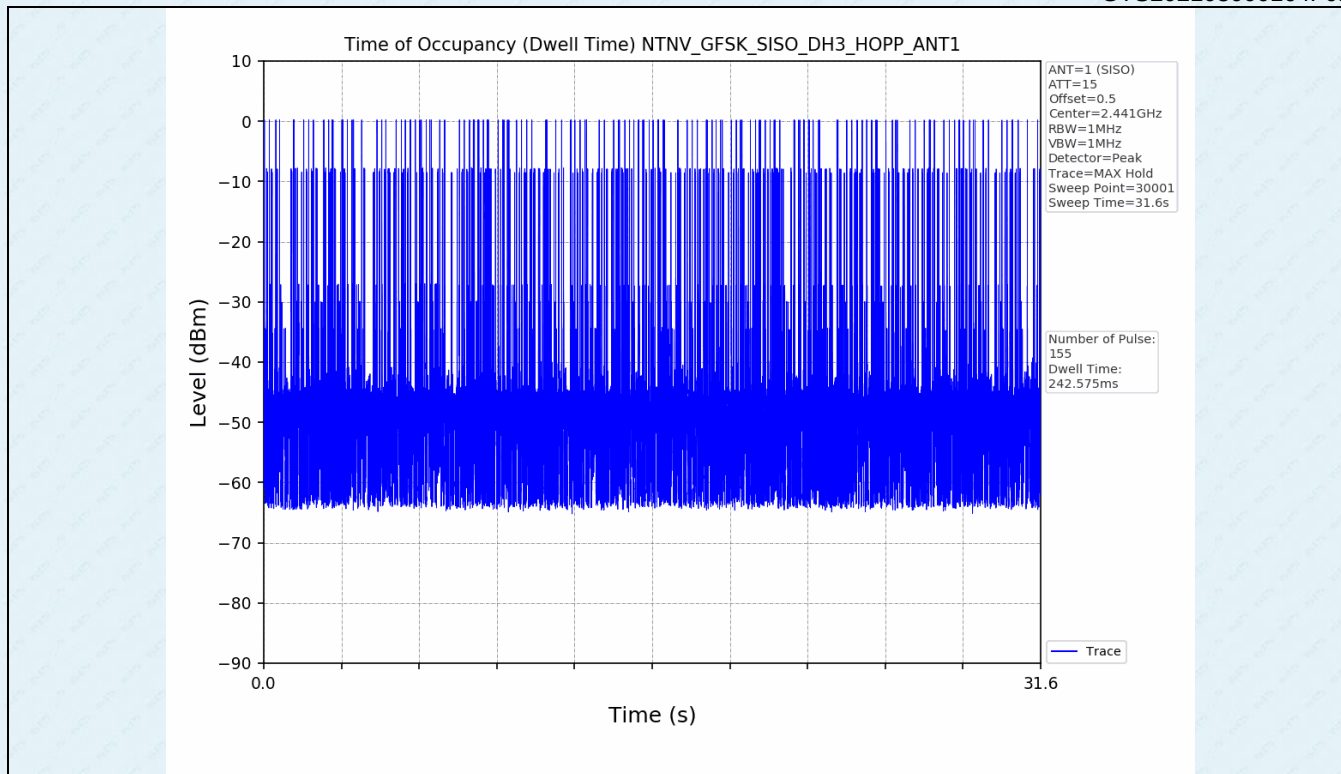
5.1 Test Result

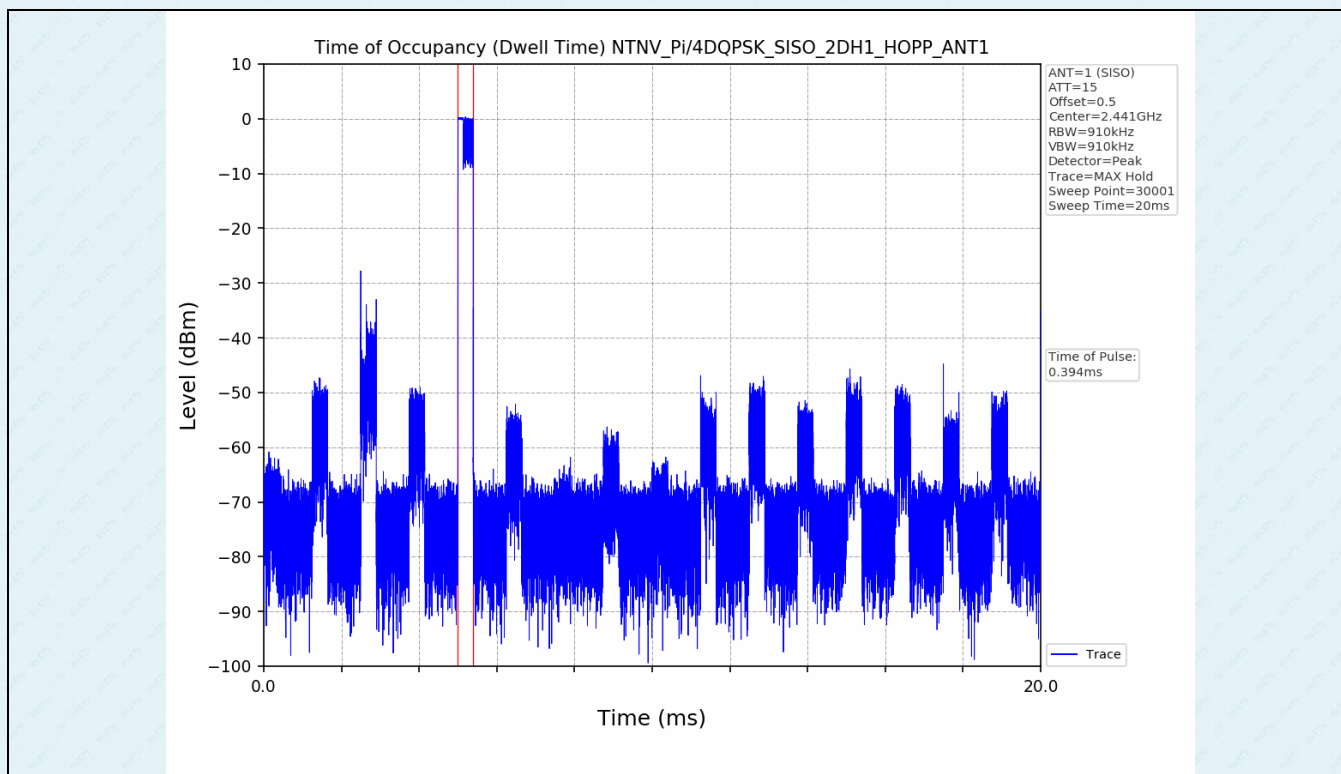
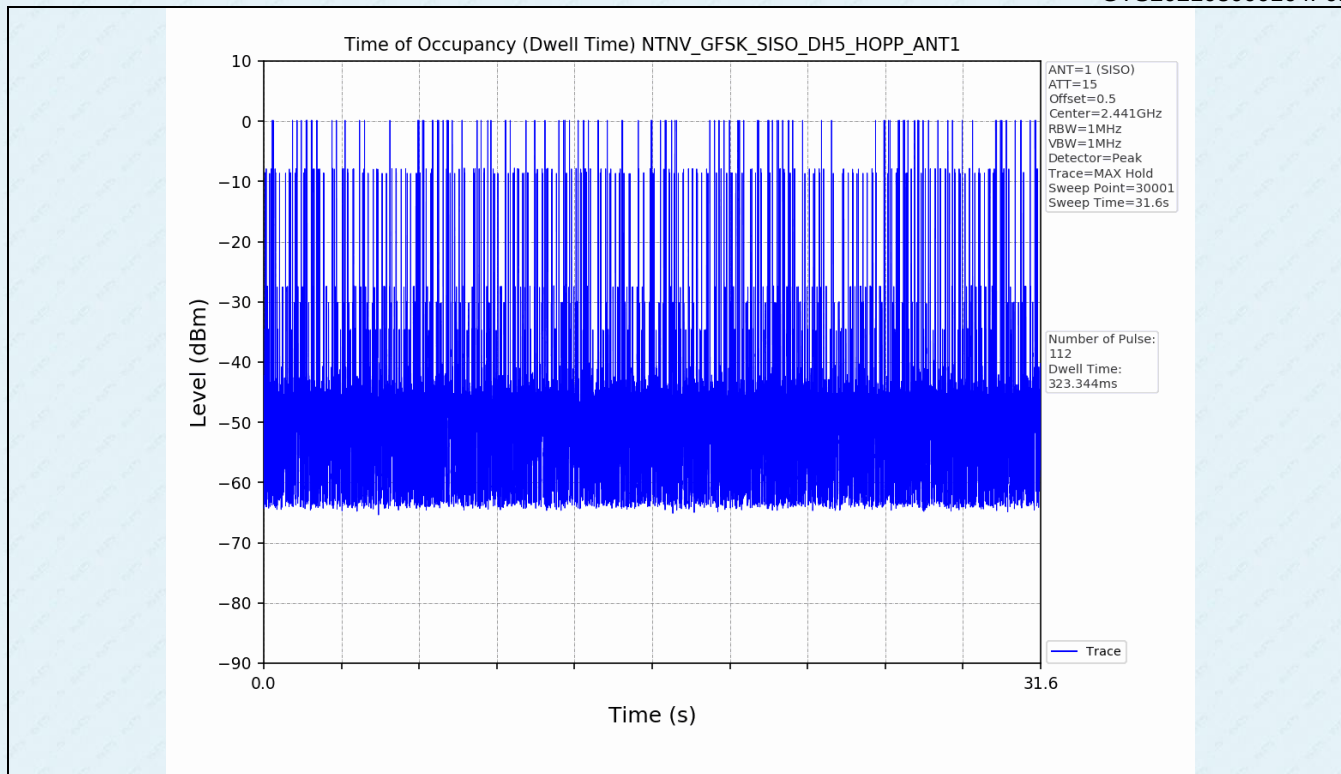
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.383	31.6	319	122.177	≤400	PASS
	DH3	SISO	1	1.565	31.6	155	242.575	≤400	PASS
	DH5	SISO	1	2.887	31.6	112	323.344	≤400	PASS
π/4-DQPSK	2DH1	SISO	1	0.394	31.6	319	125.686	≤400	PASS
	2DH3	SISO	1	1.645	31.6	159	261.555	≤400	PASS
	2DH5	SISO	1	2.893	31.6	88	254.584	≤400	PASS
8-DPSK	3DH1	SISO	1	6.667	31.6	54	360.018	≤400	PASS
	3DH3	SISO	1	0.653	31.6	153	99.909	≤400	PASS
	3DH5	SISO	1	0.897	31.6	97	87.009	≤400	PASS

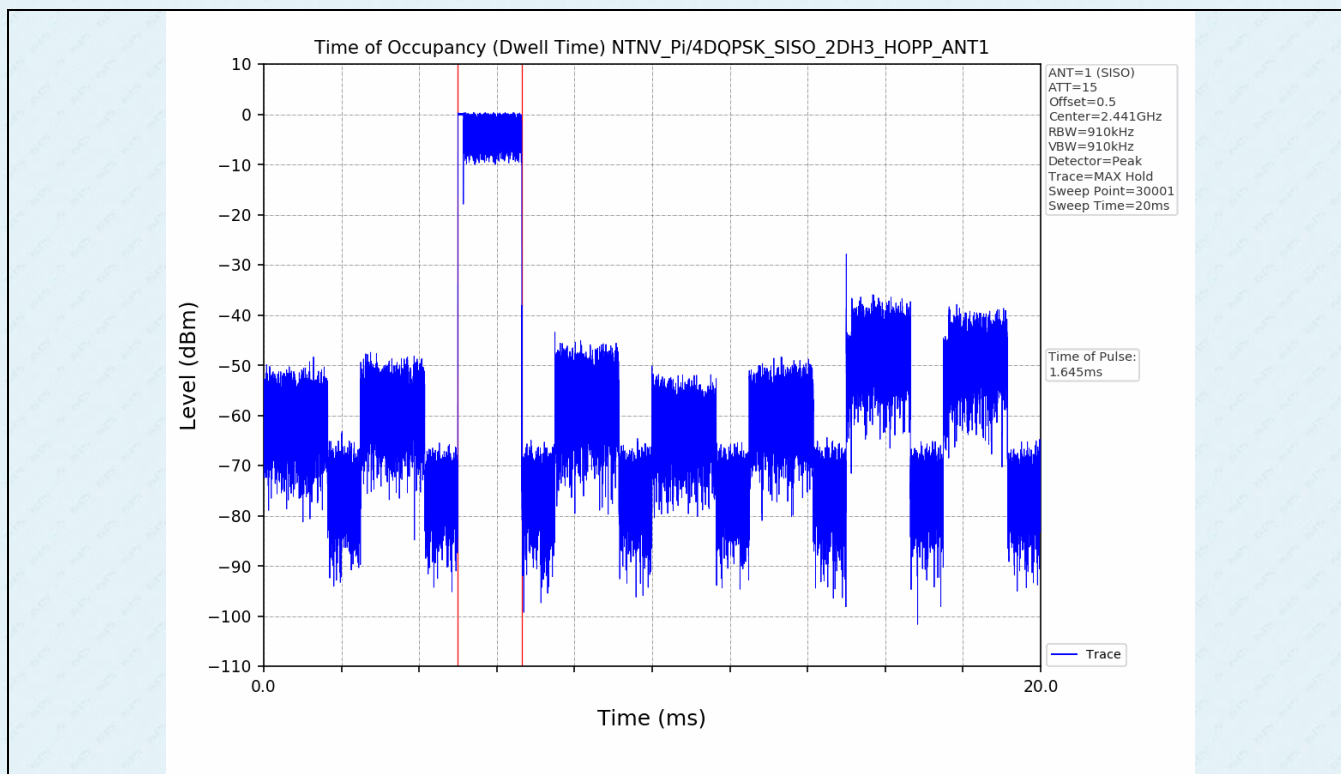
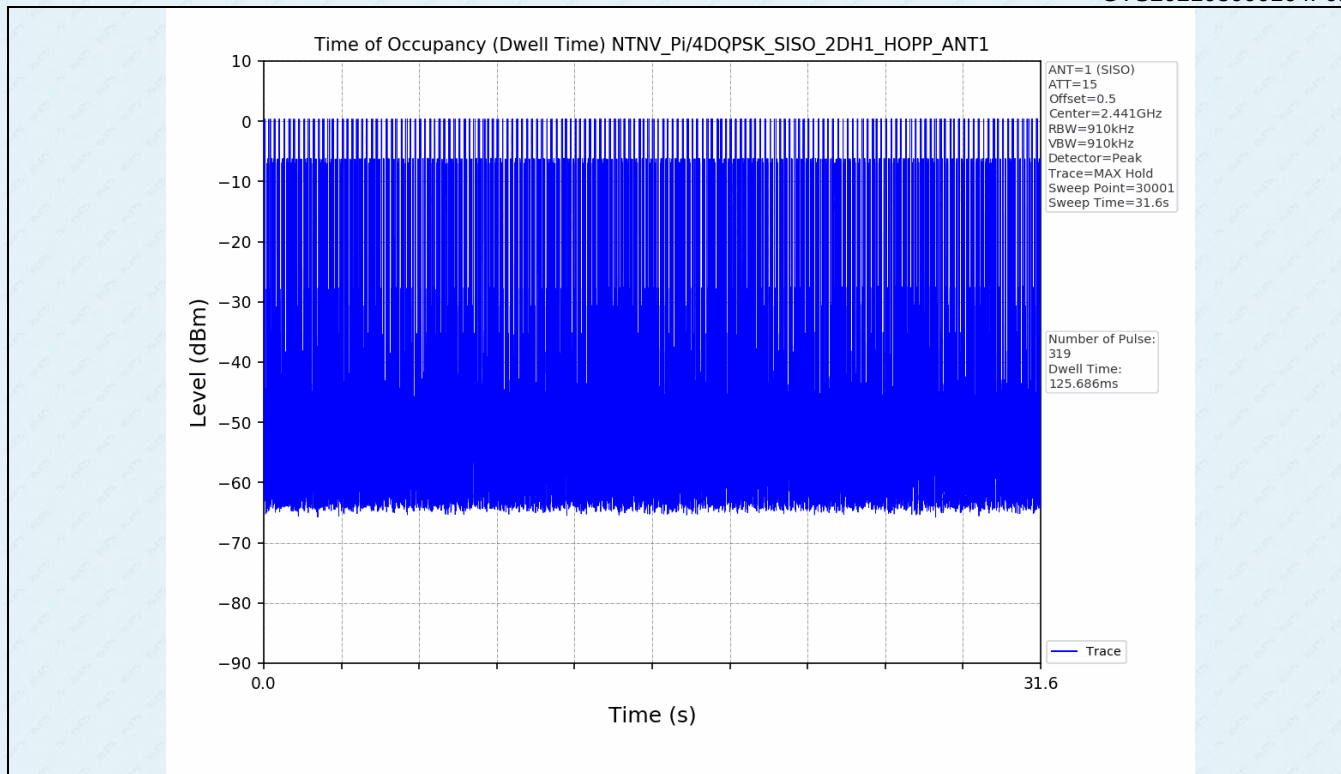
5.2 Test Graph

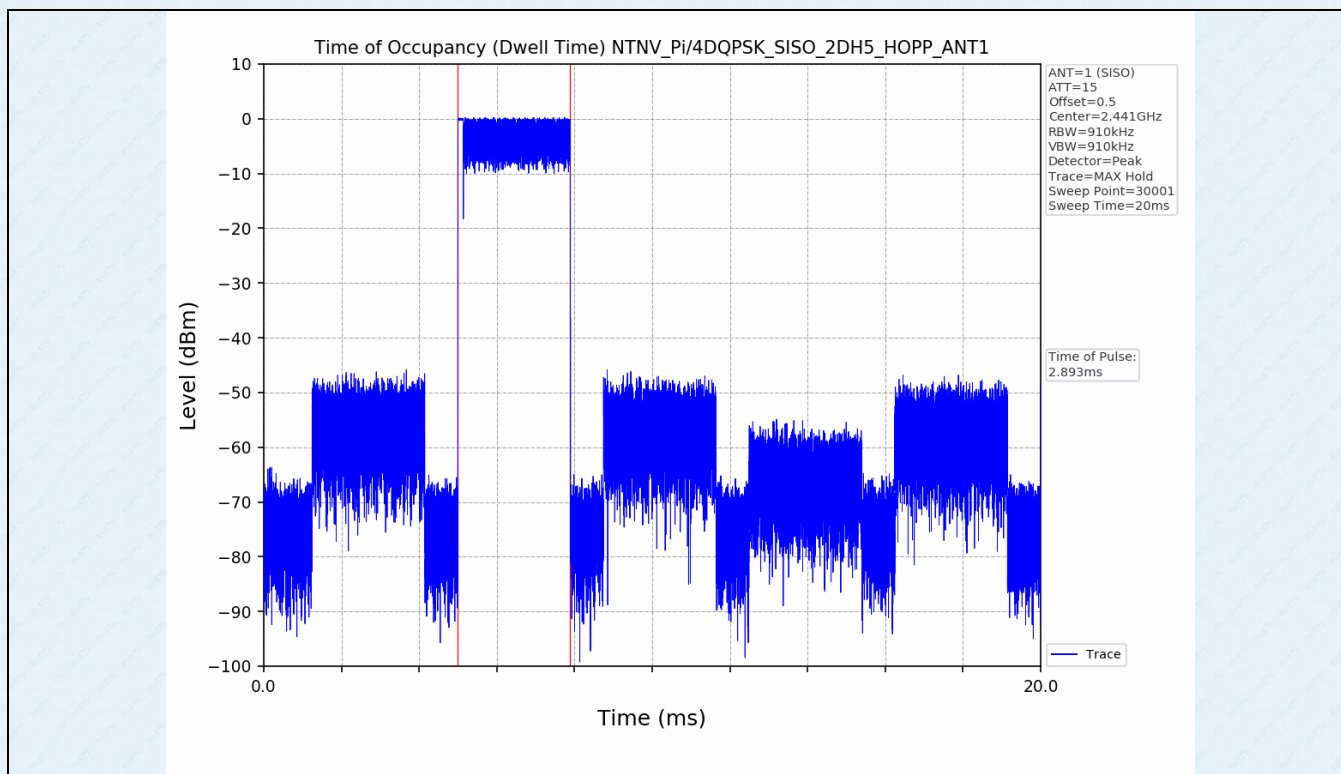
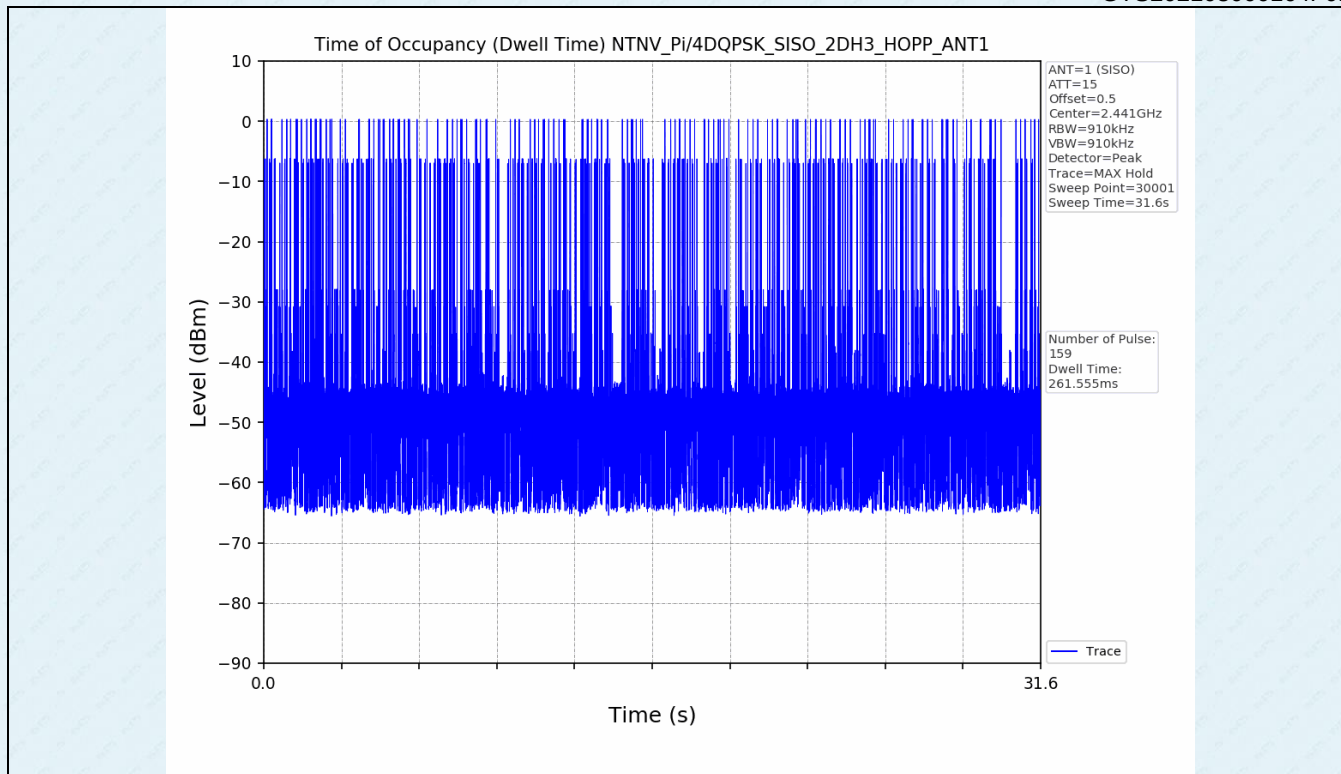


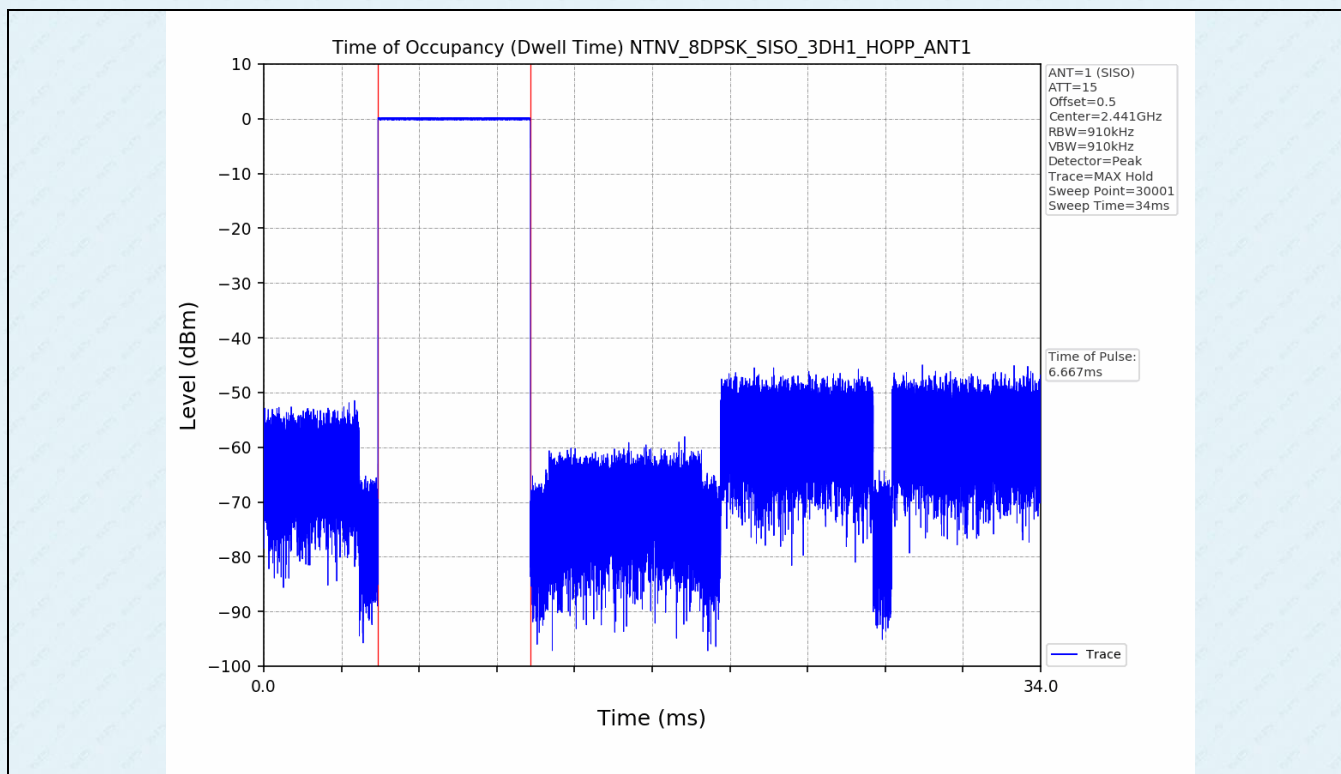
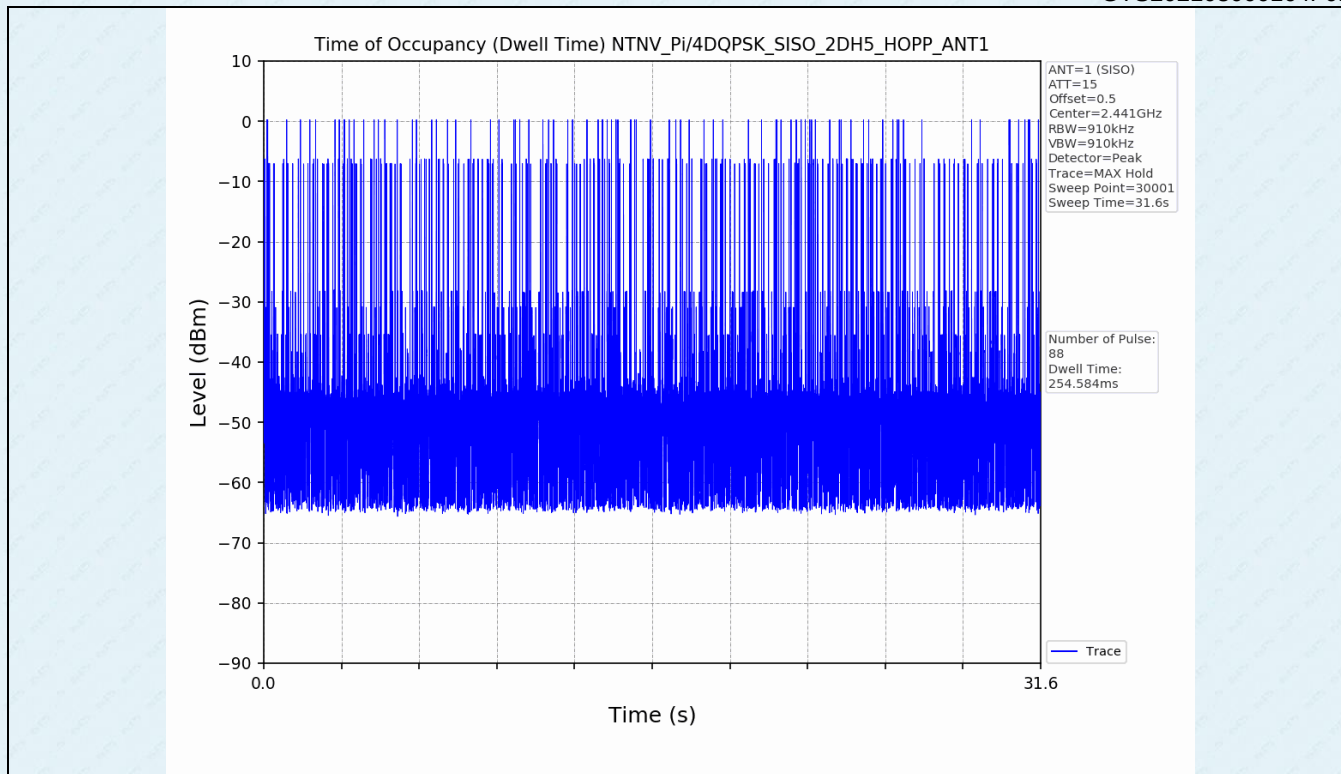


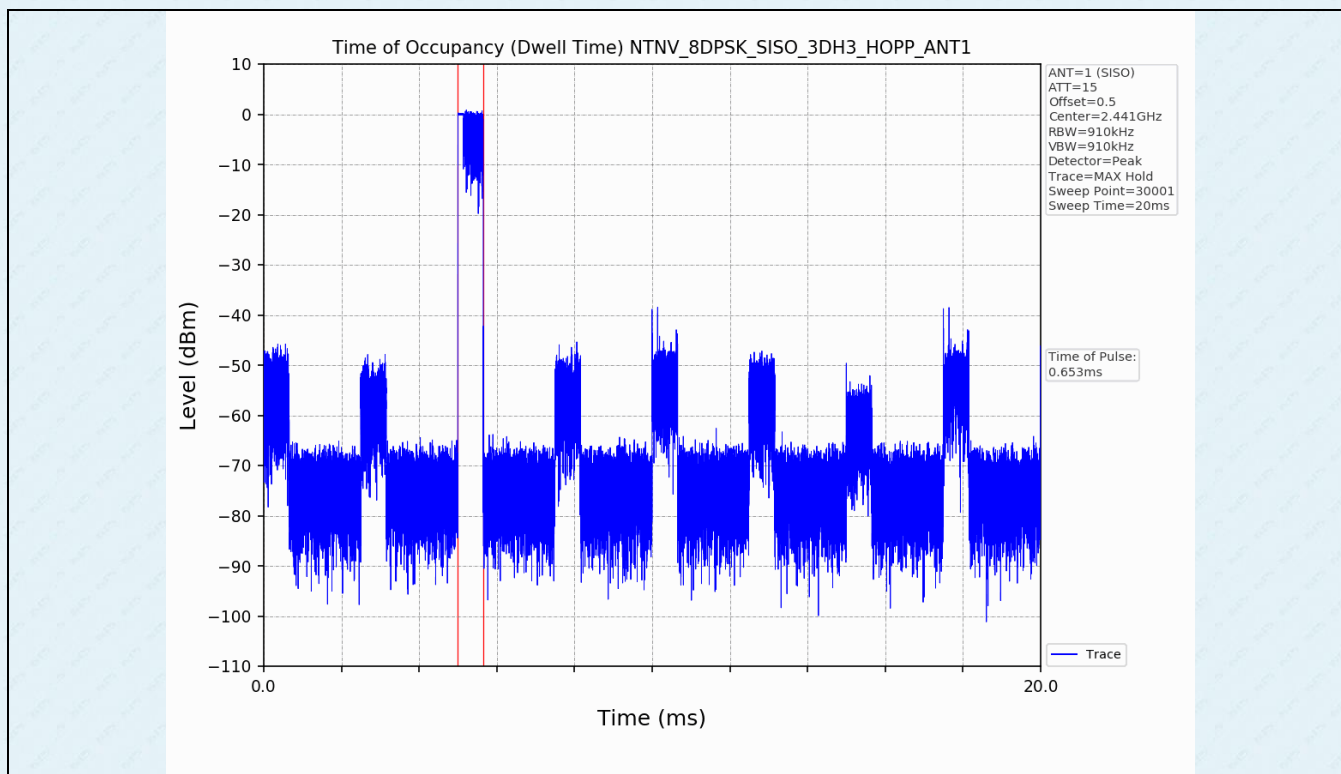
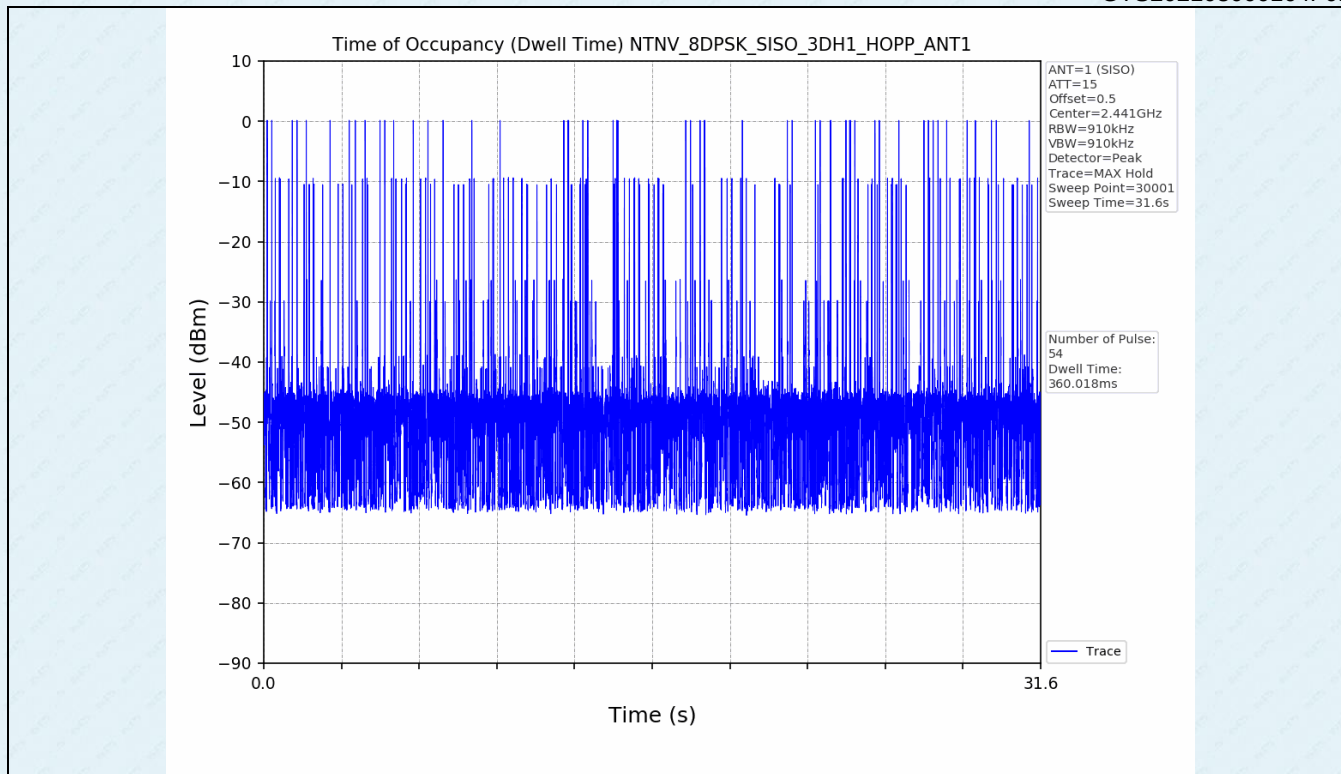


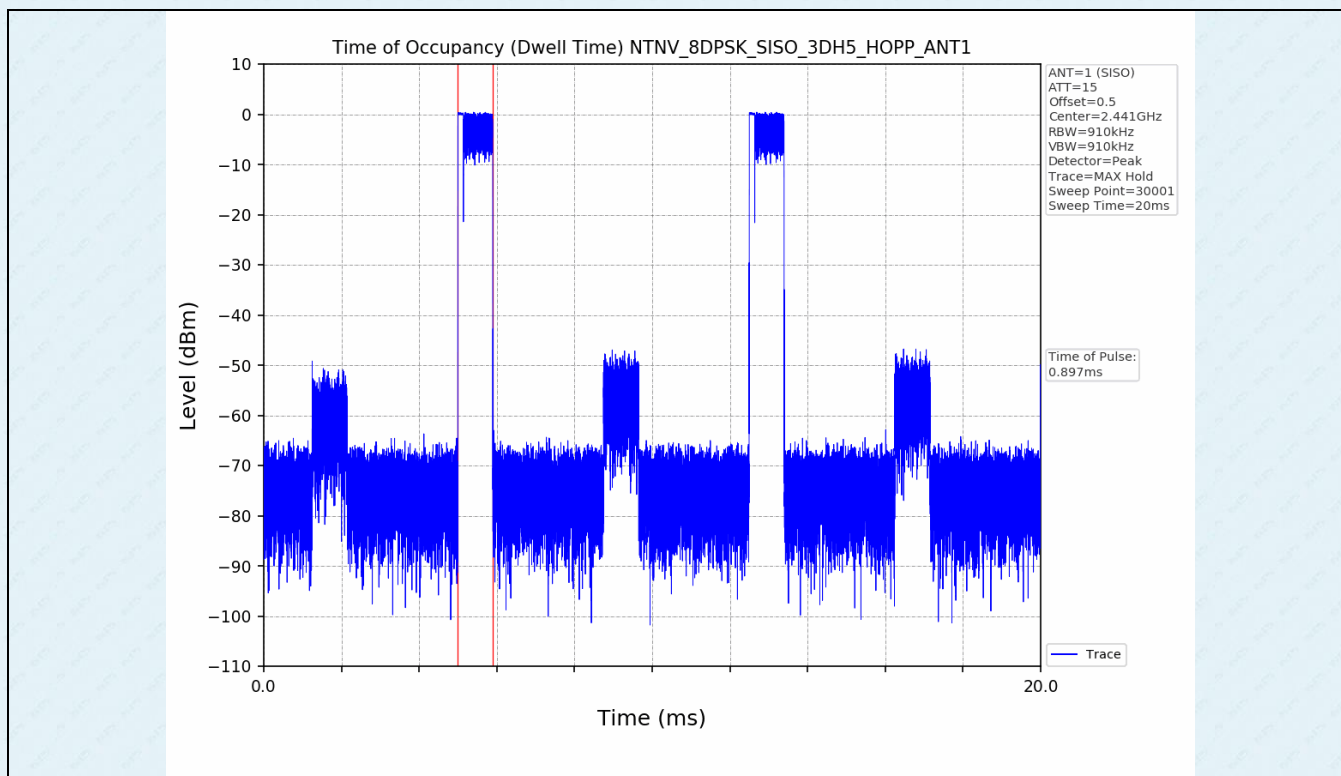
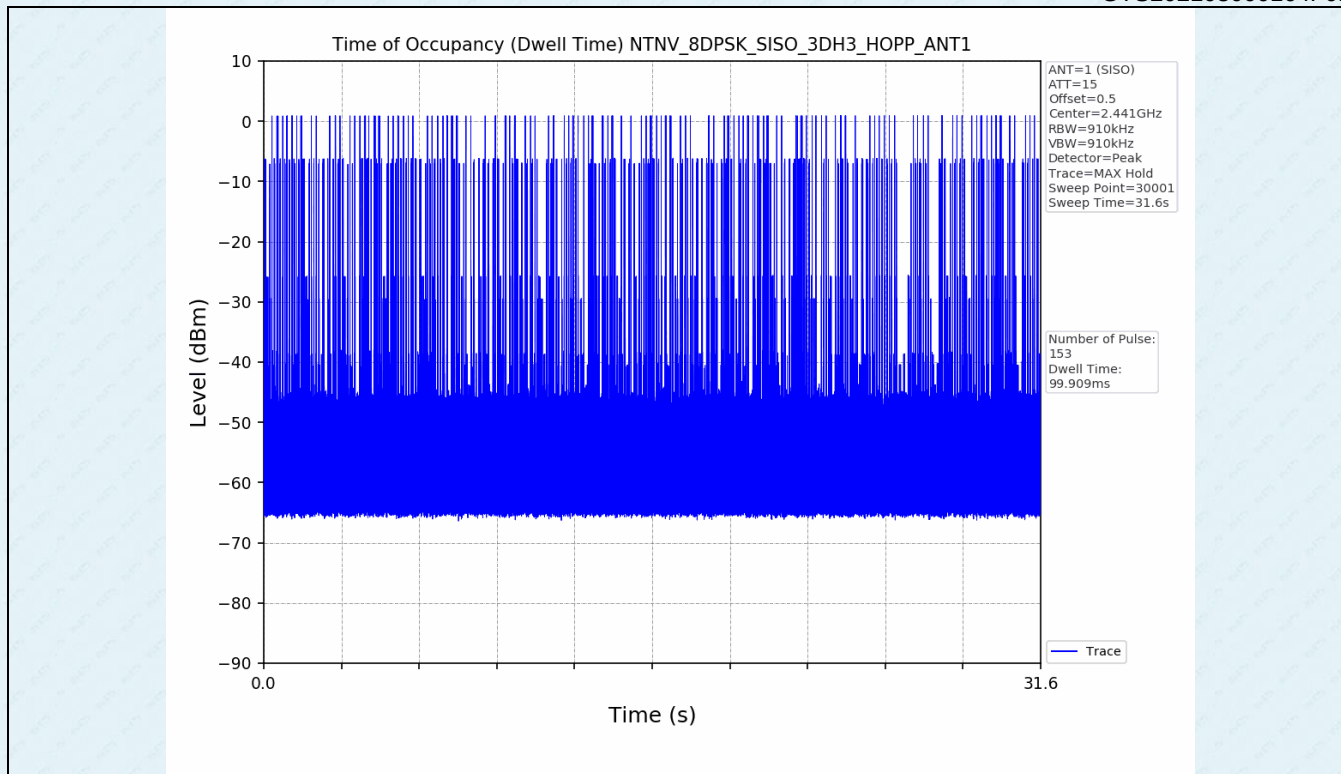


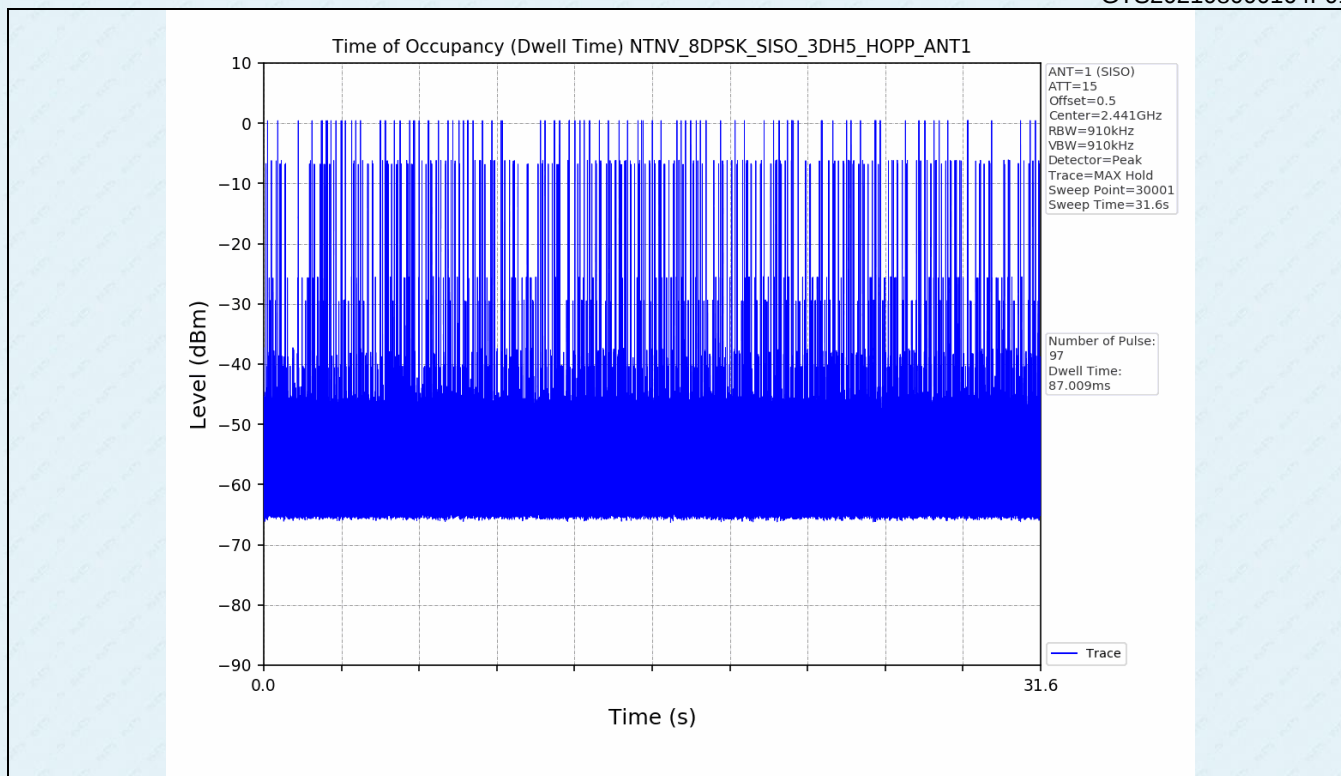










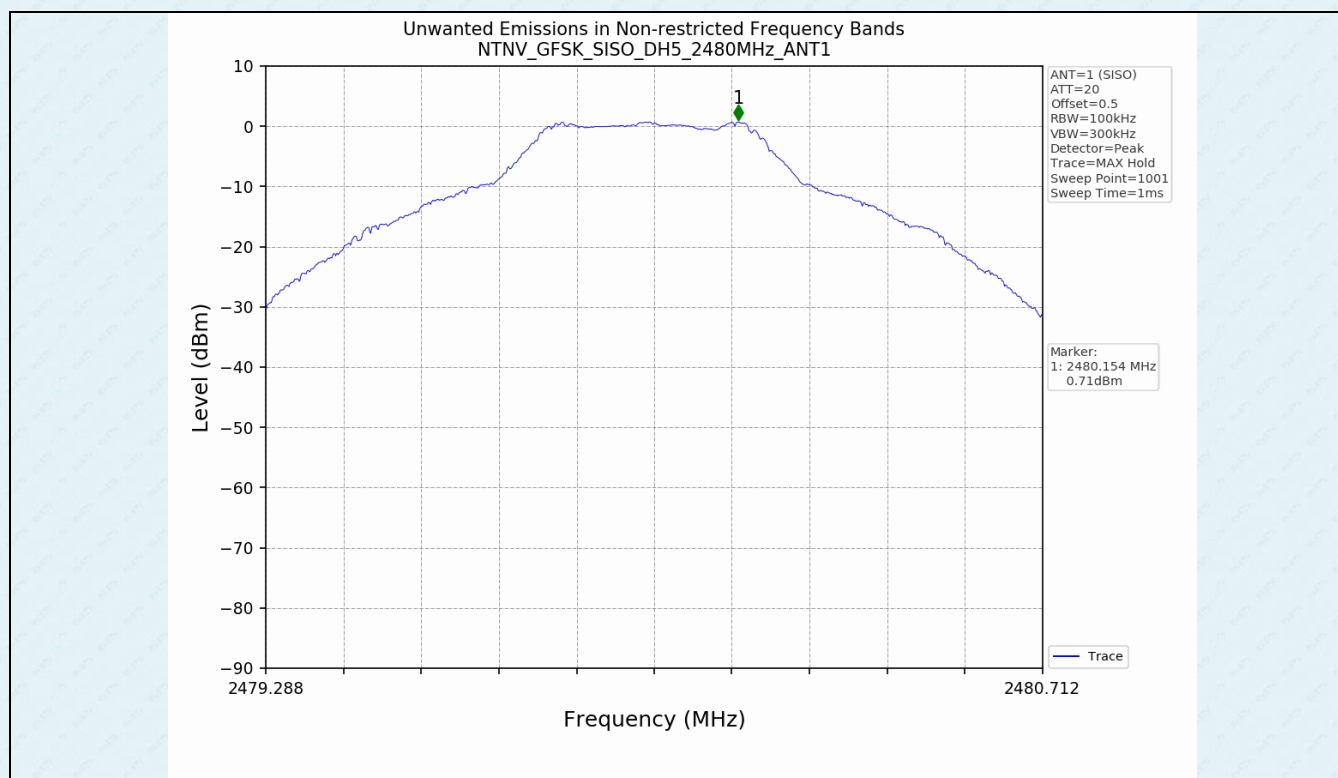


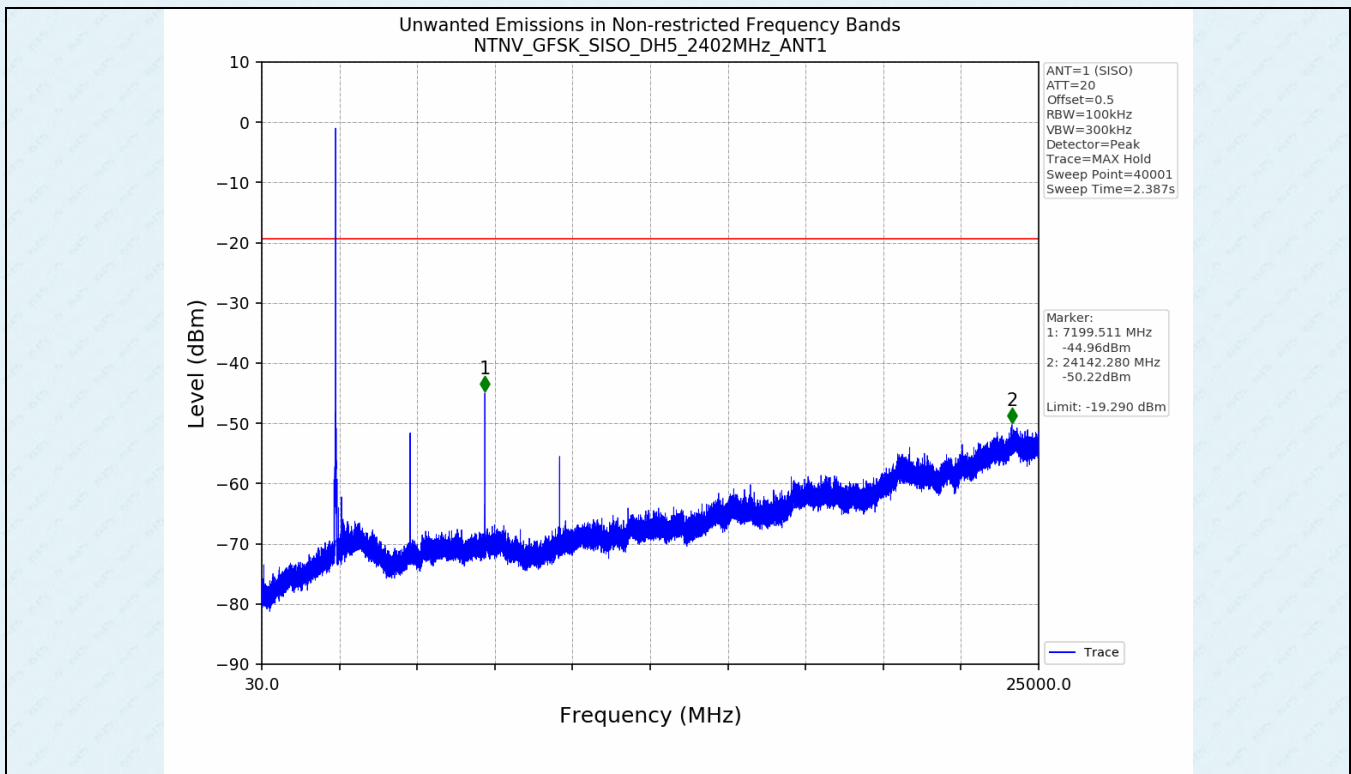
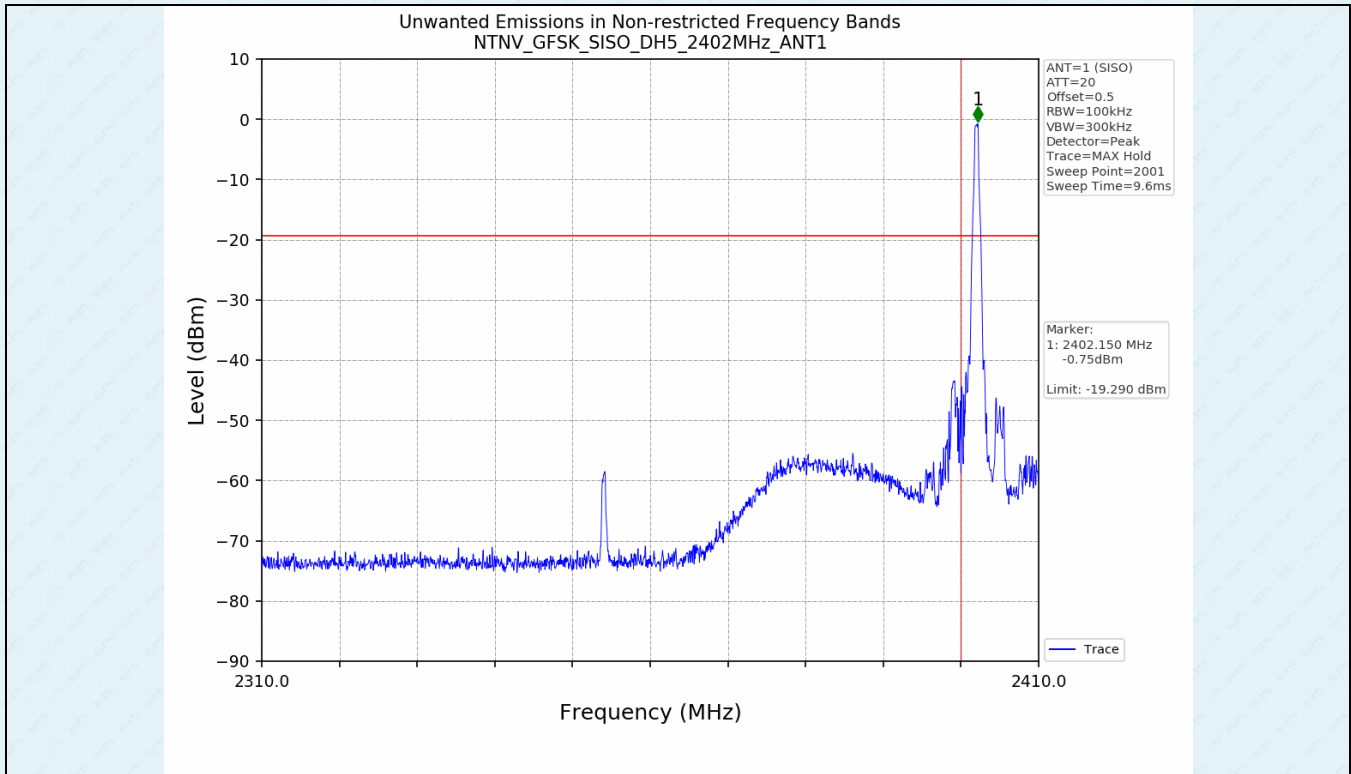
6. Unwanted Emissions in Non-restricted Frequency Bands

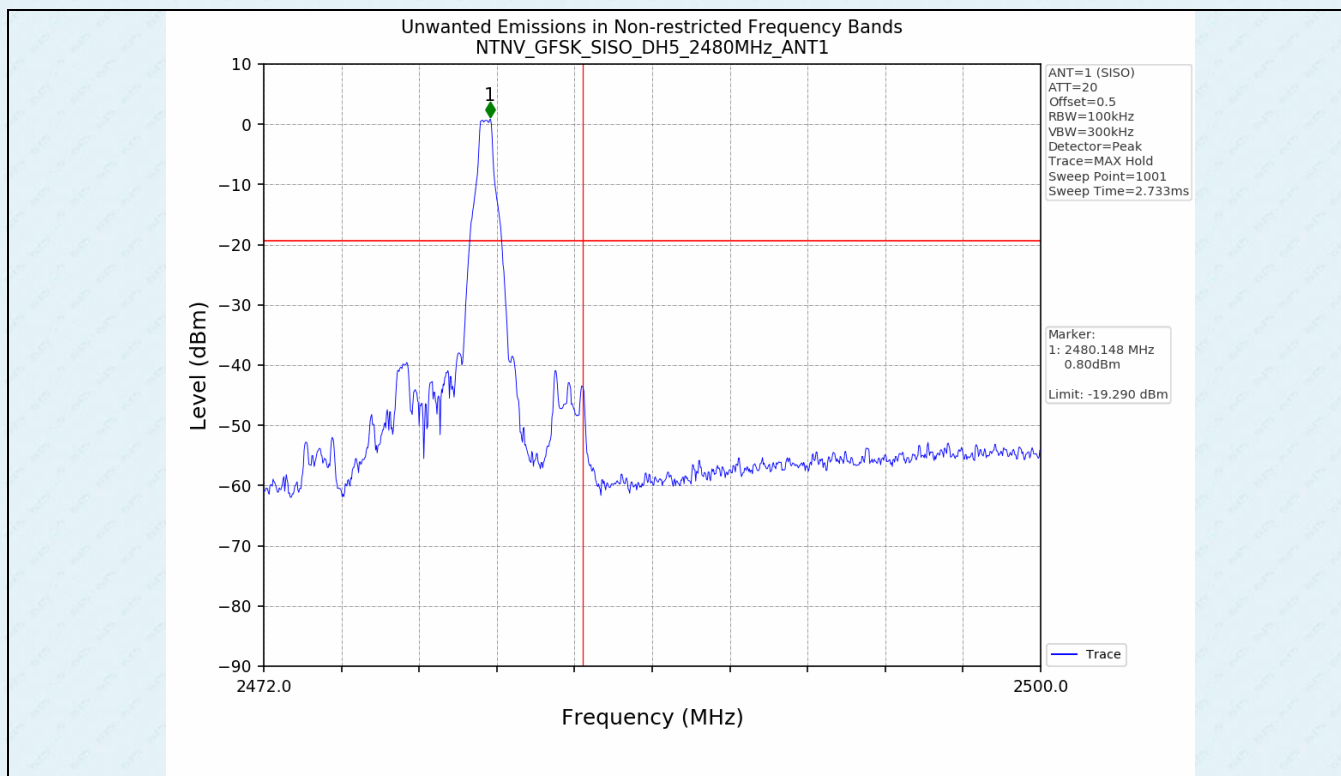
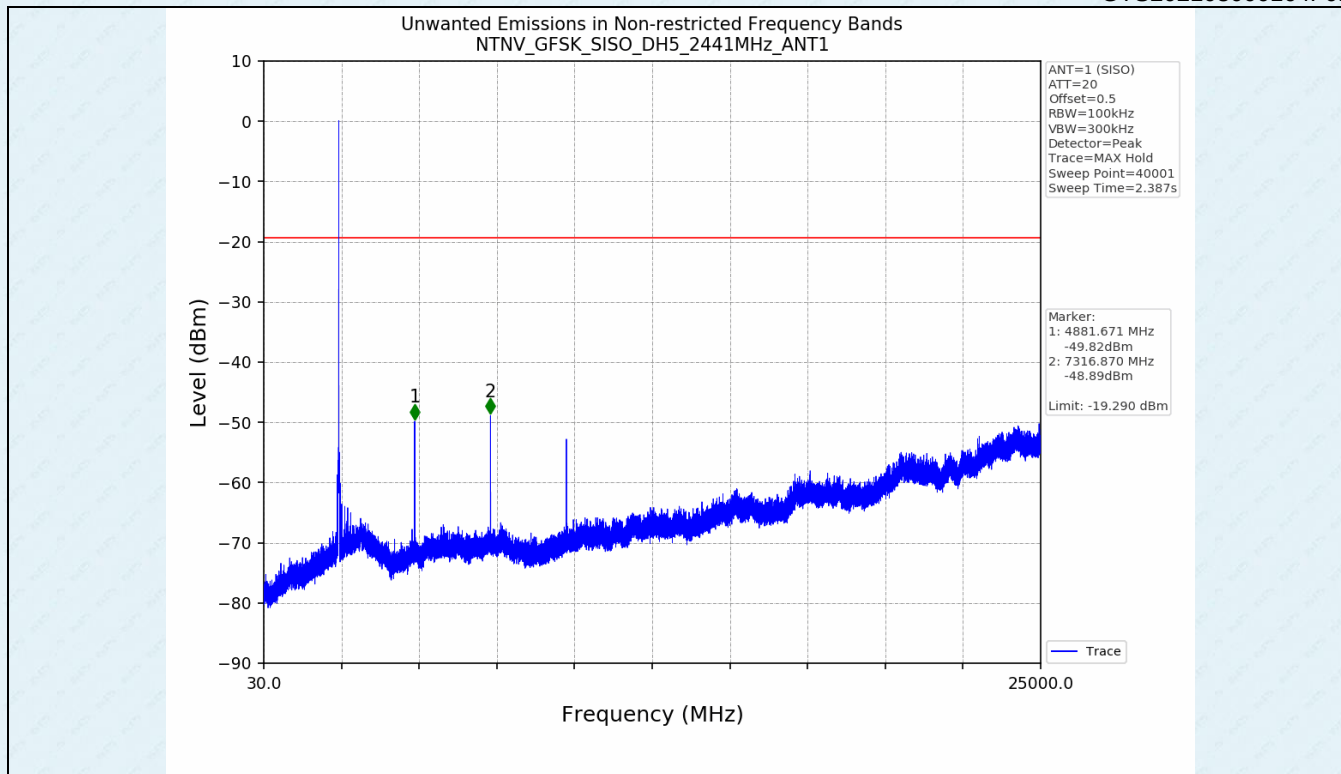
6.1 Test Result

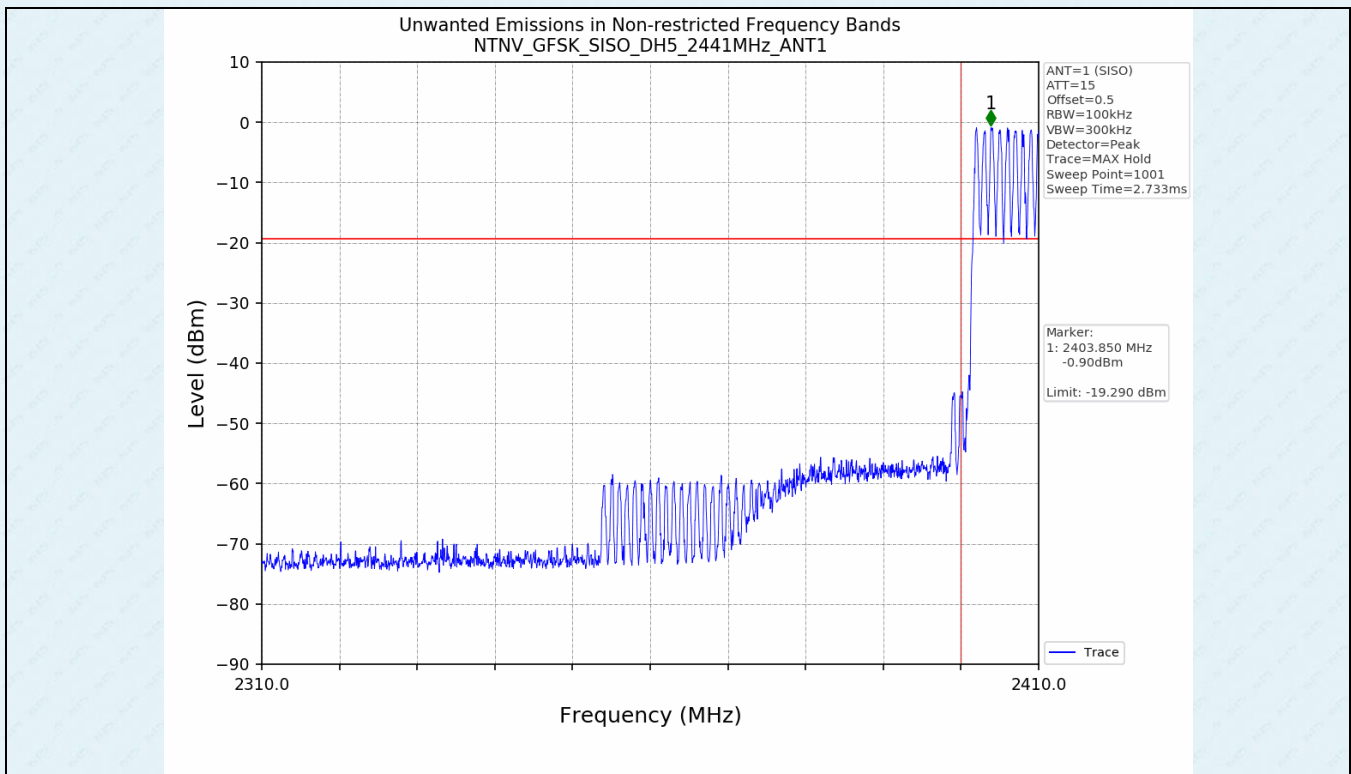
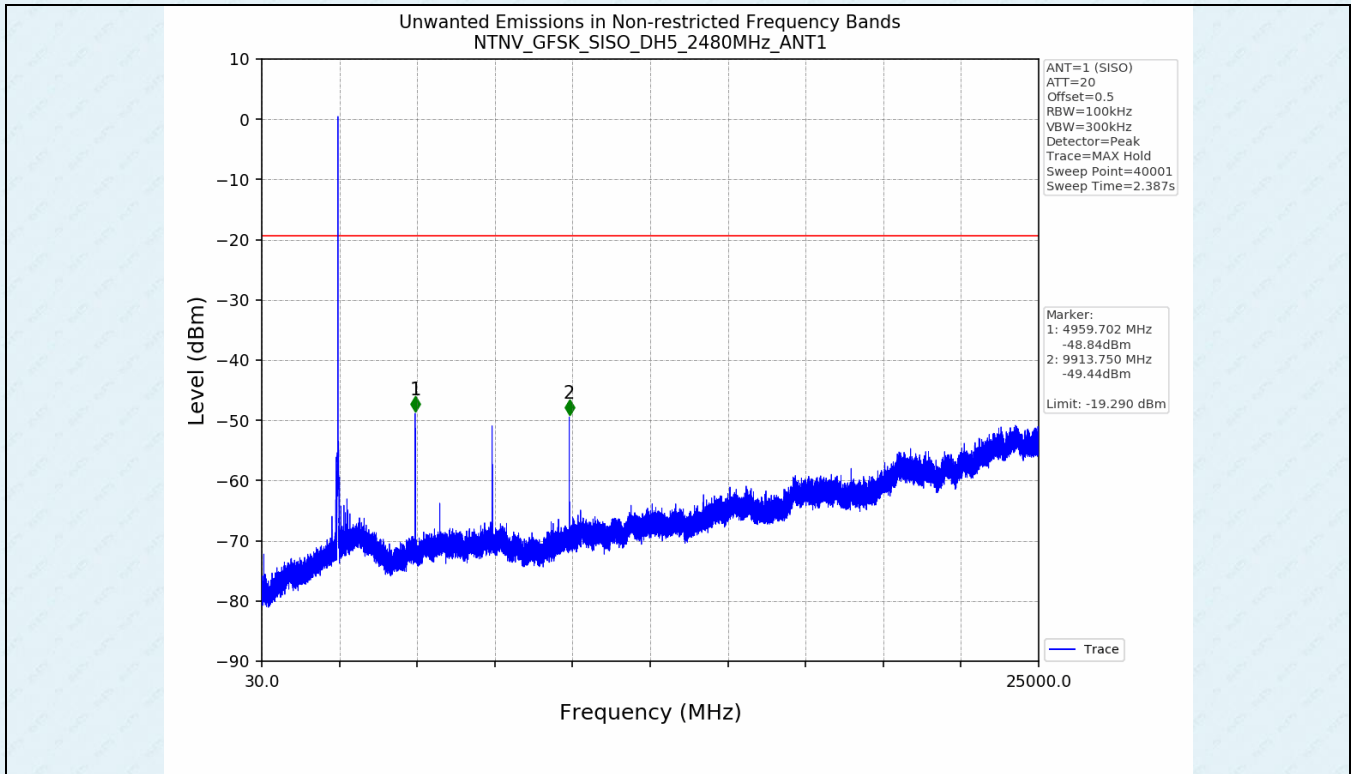
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-19.29	PASS
	2441	SISO	1	Refer to test graph	-19.29	PASS
	2480	SISO	1	Refer to test graph	-19.29	PASS
	Hopping	SISO	1	Refer to test graph	-19.29	PASS
$\pi/4$ -DQPSK	2402	SISO	1	Refer to test graph	-19.17	PASS
	2441	SISO	1	Refer to test graph	-19.17	PASS
	2480	SISO	1	Refer to test graph	-19.17	PASS
	Hopping	SISO	1	Refer to test graph	-19.17	PASS
8-DPSK	2402	SISO	1	Refer to test graph	-18.93	PASS
	2441	SISO	1	Refer to test graph	-18.93	PASS
	2480	SISO	1	Refer to test graph	-18.93	PASS
	Hopping	SISO	1	Refer to test graph	-18.93	PASS

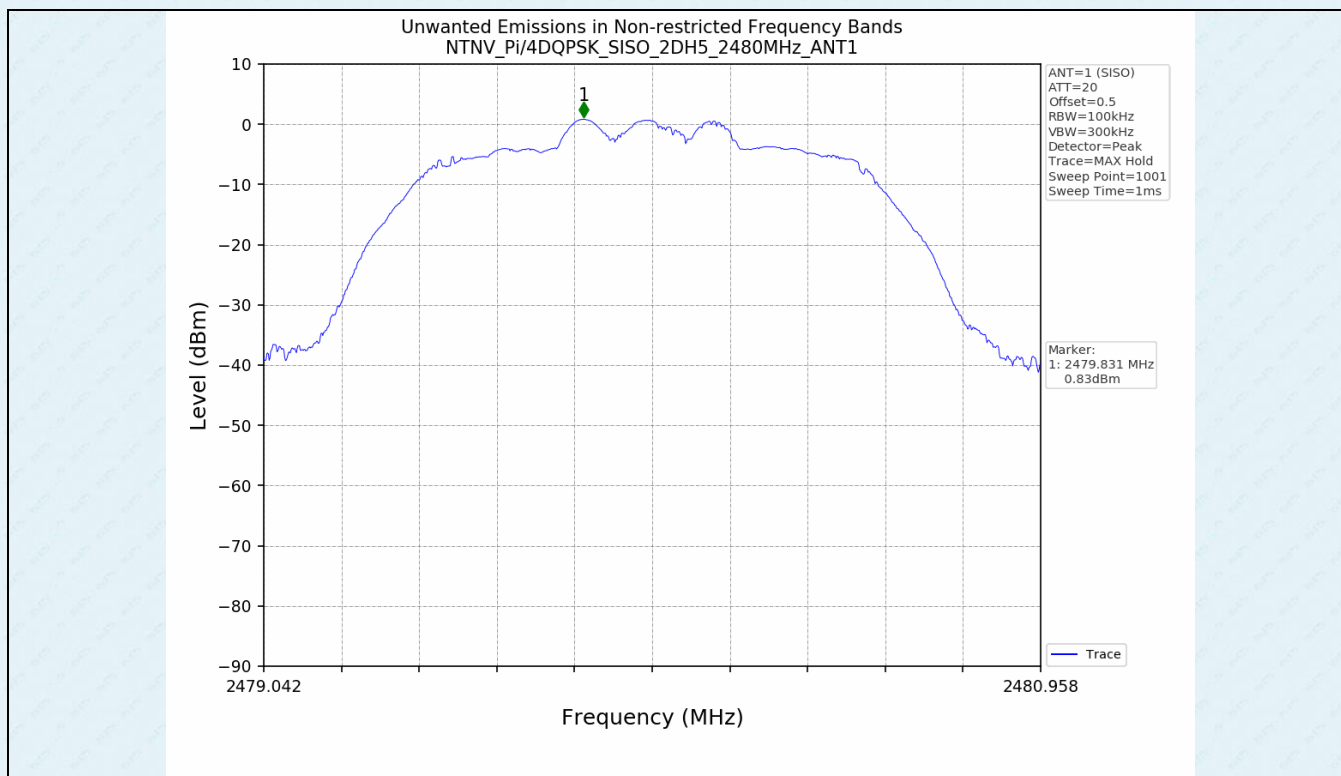
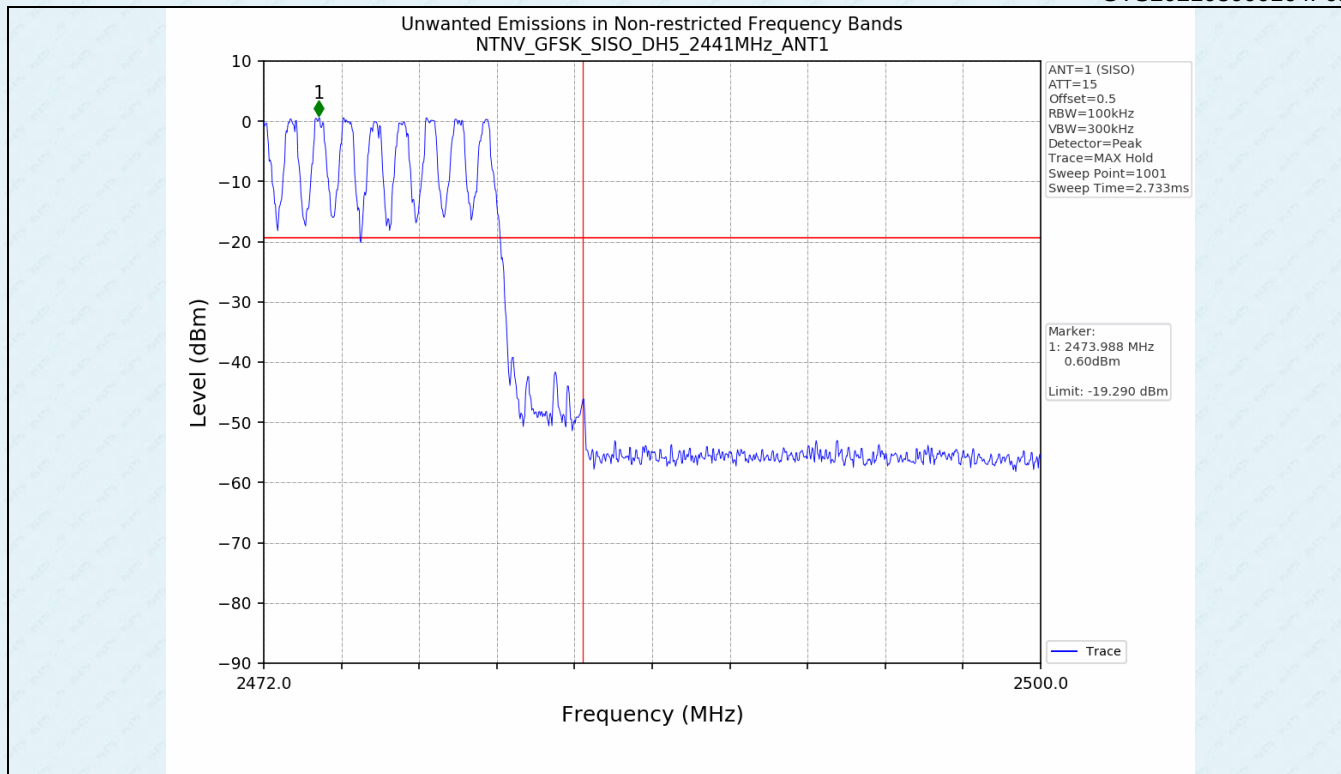
6.2 Test Graph

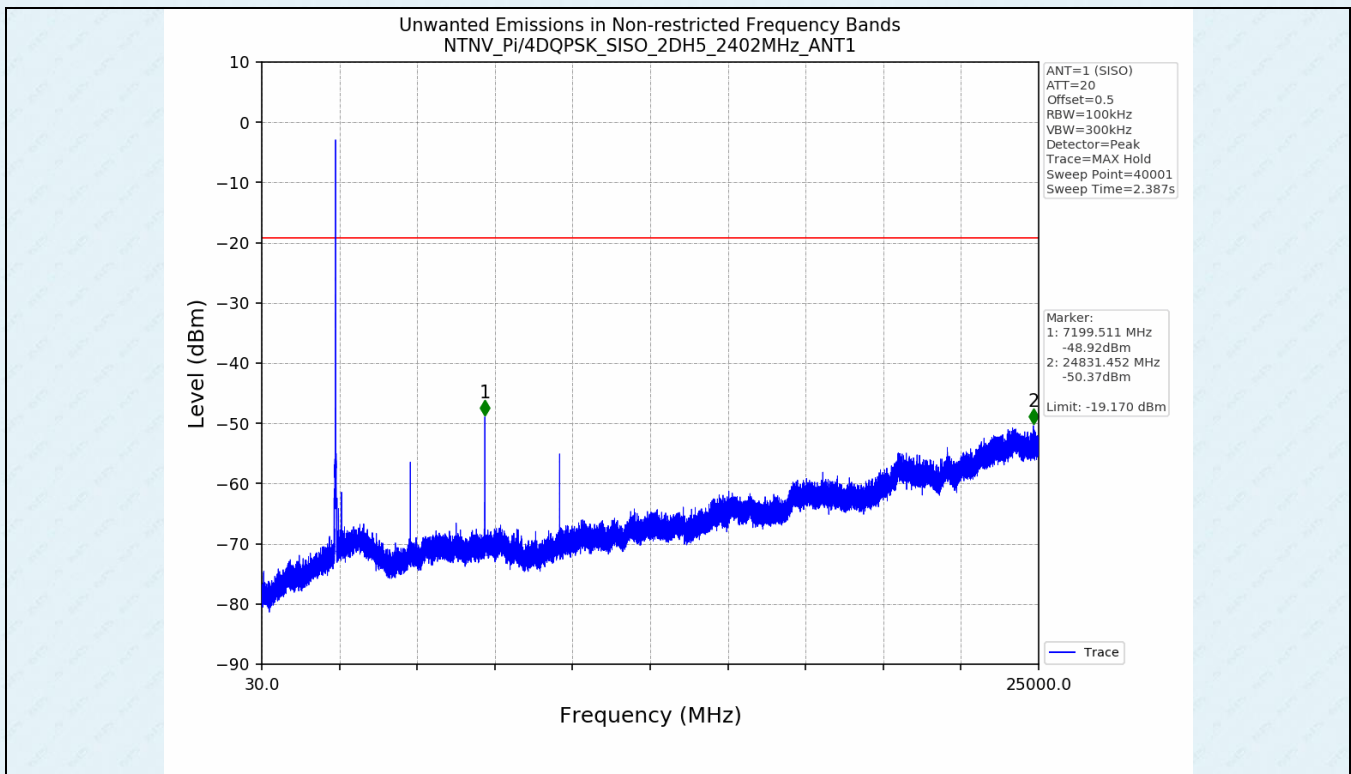
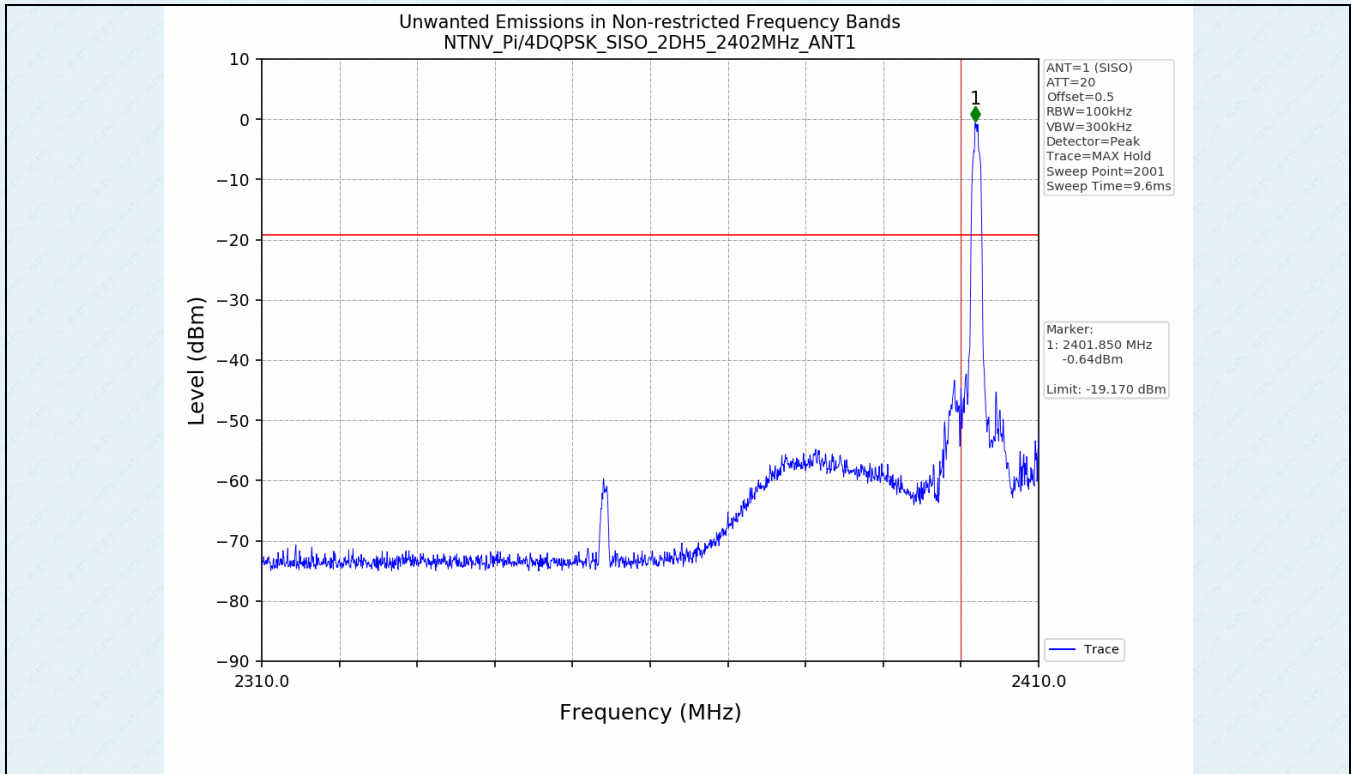


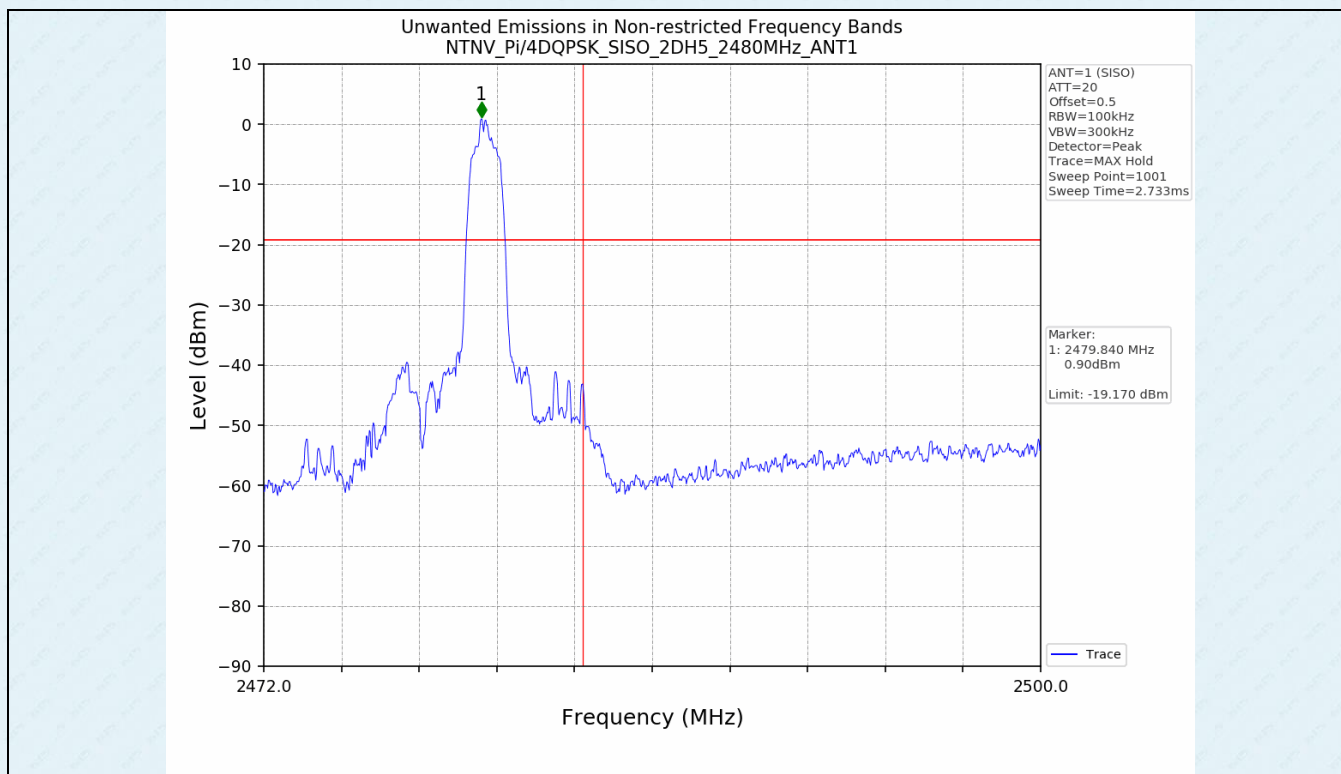
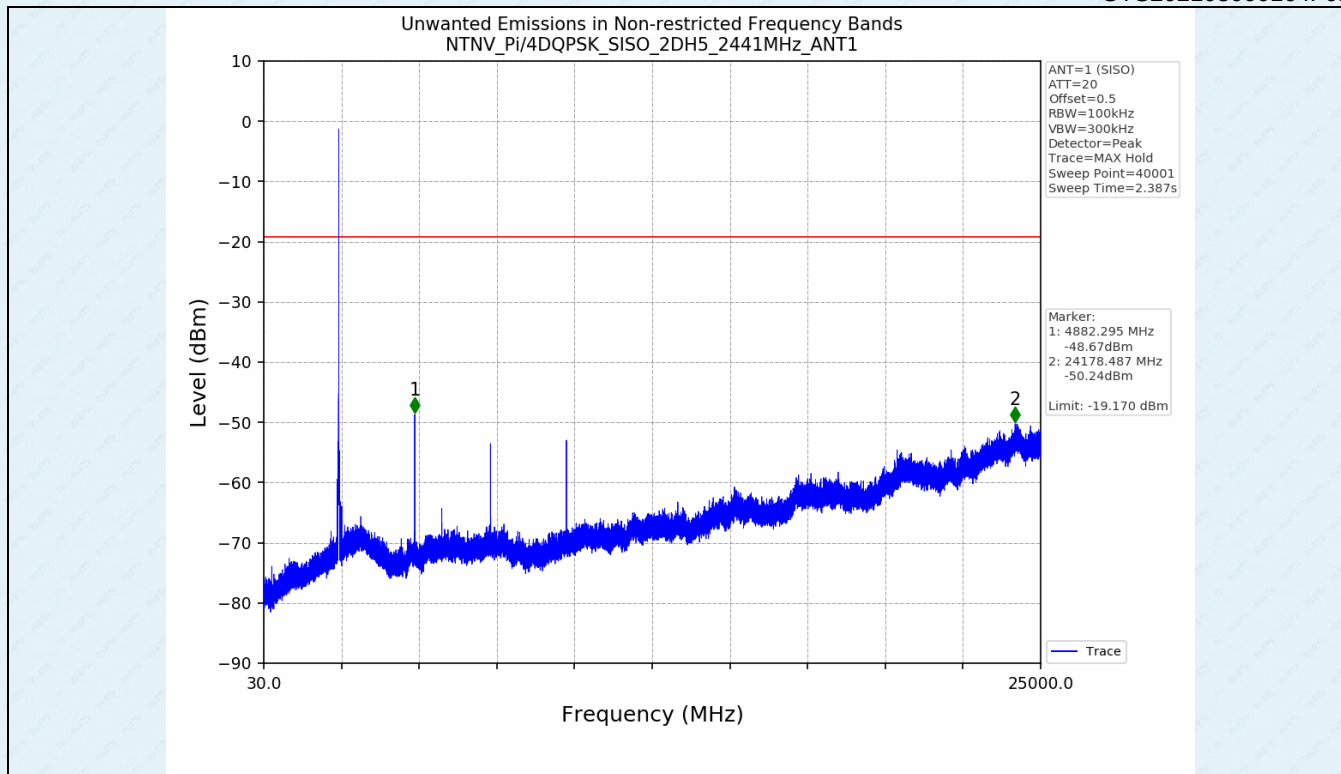


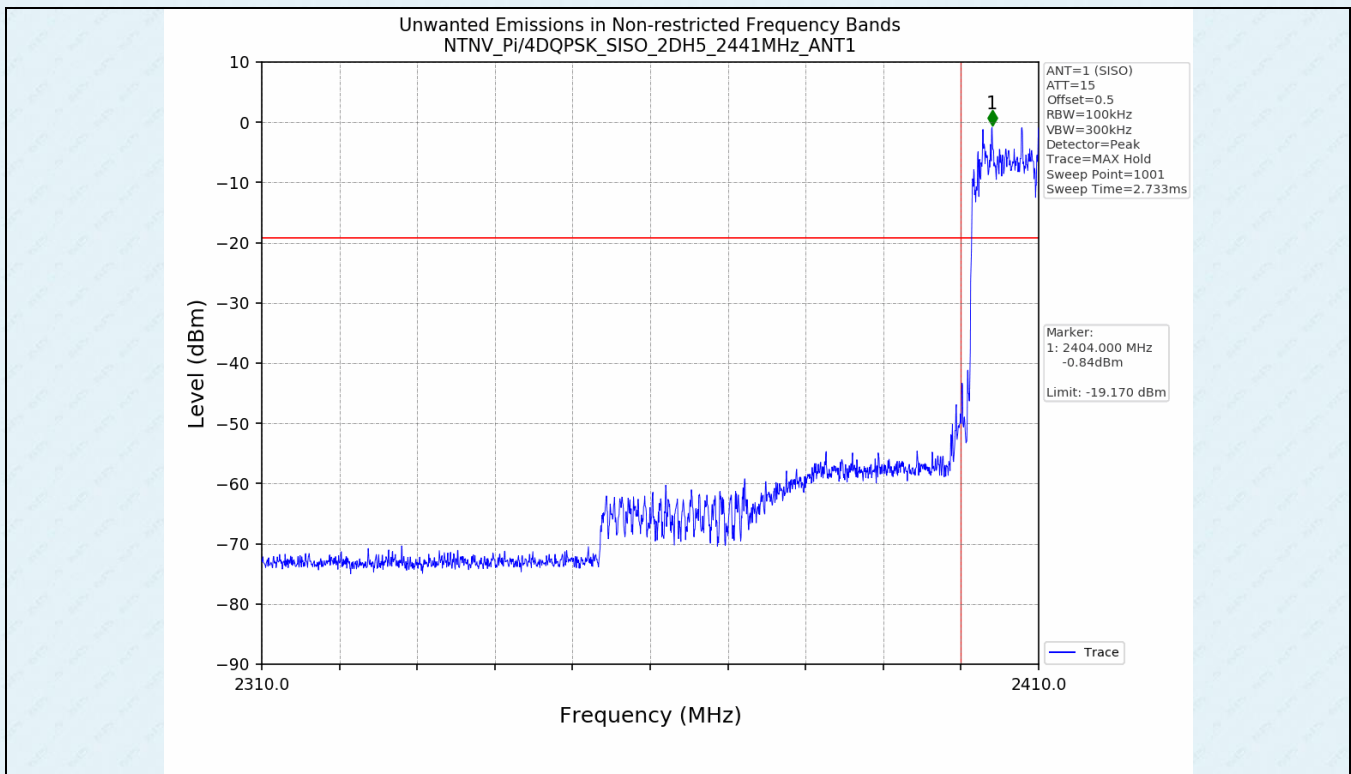
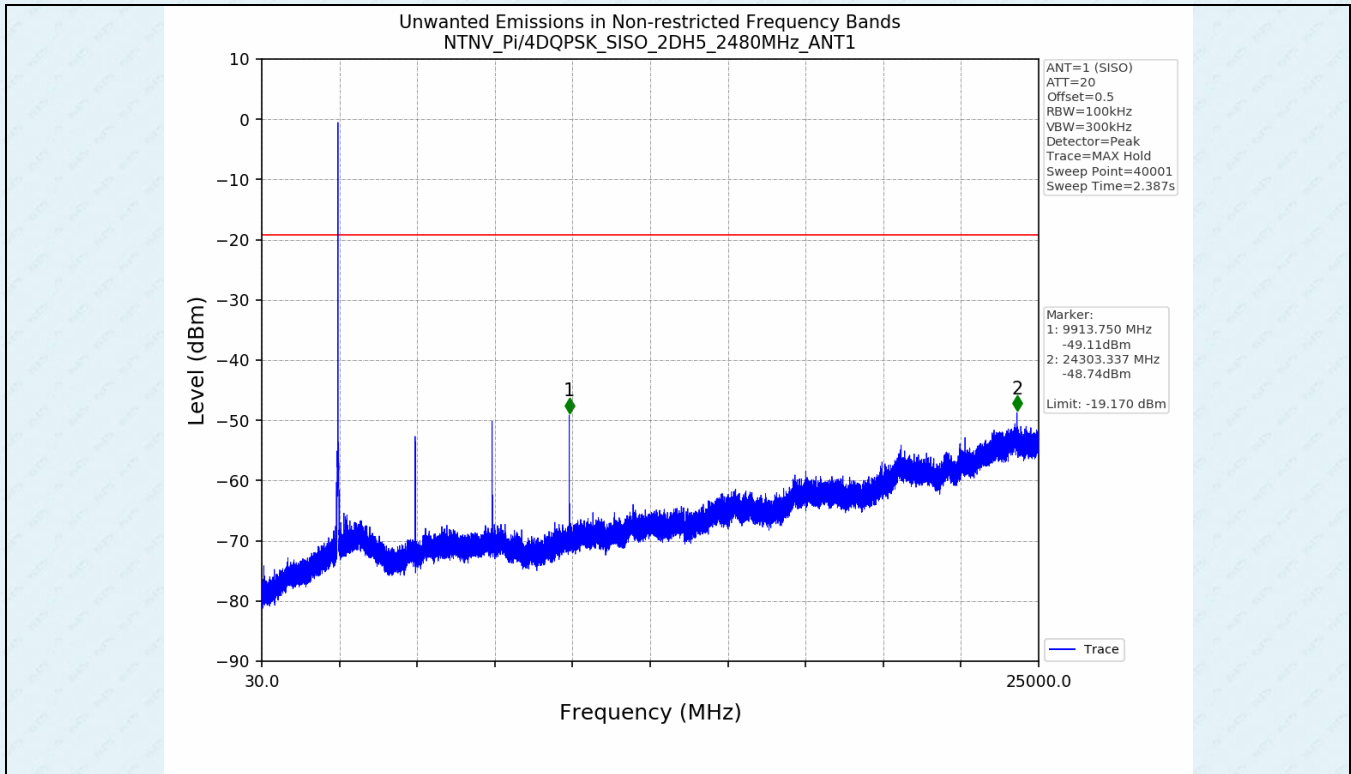


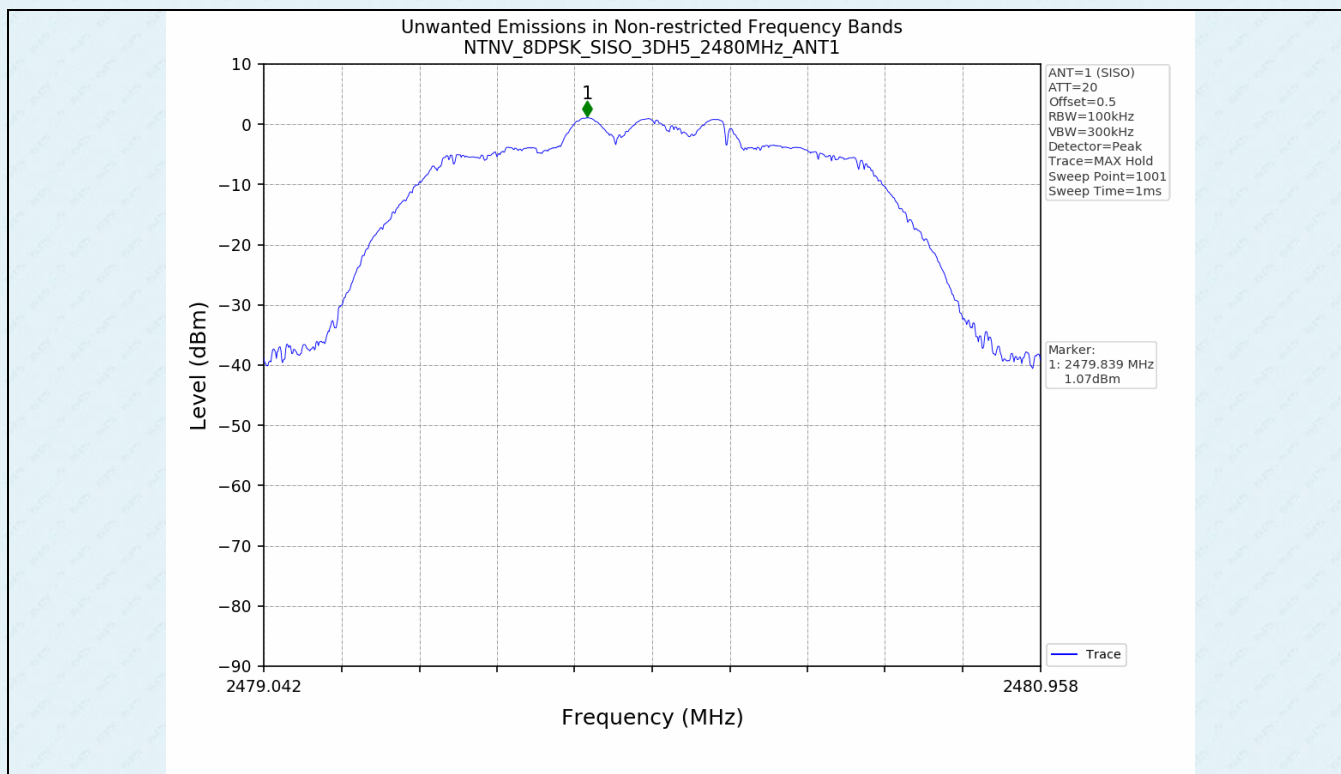
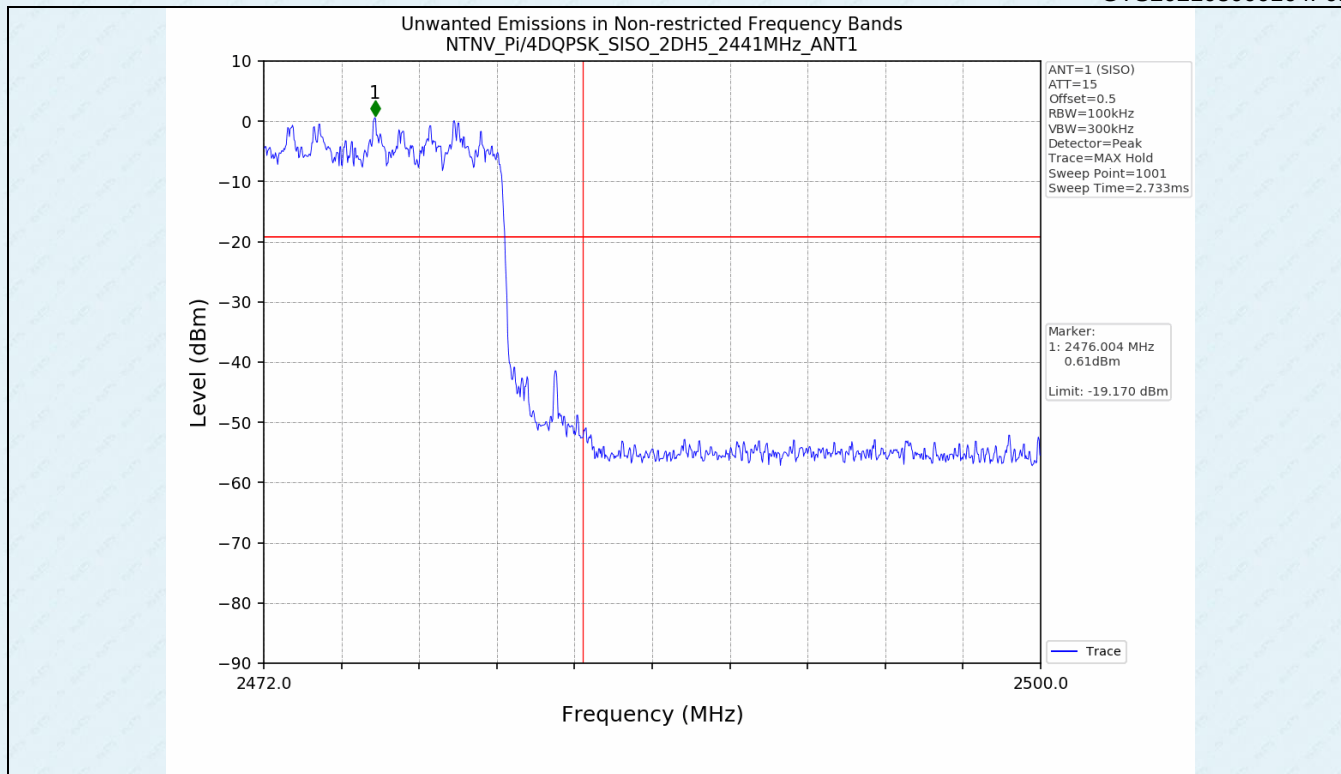


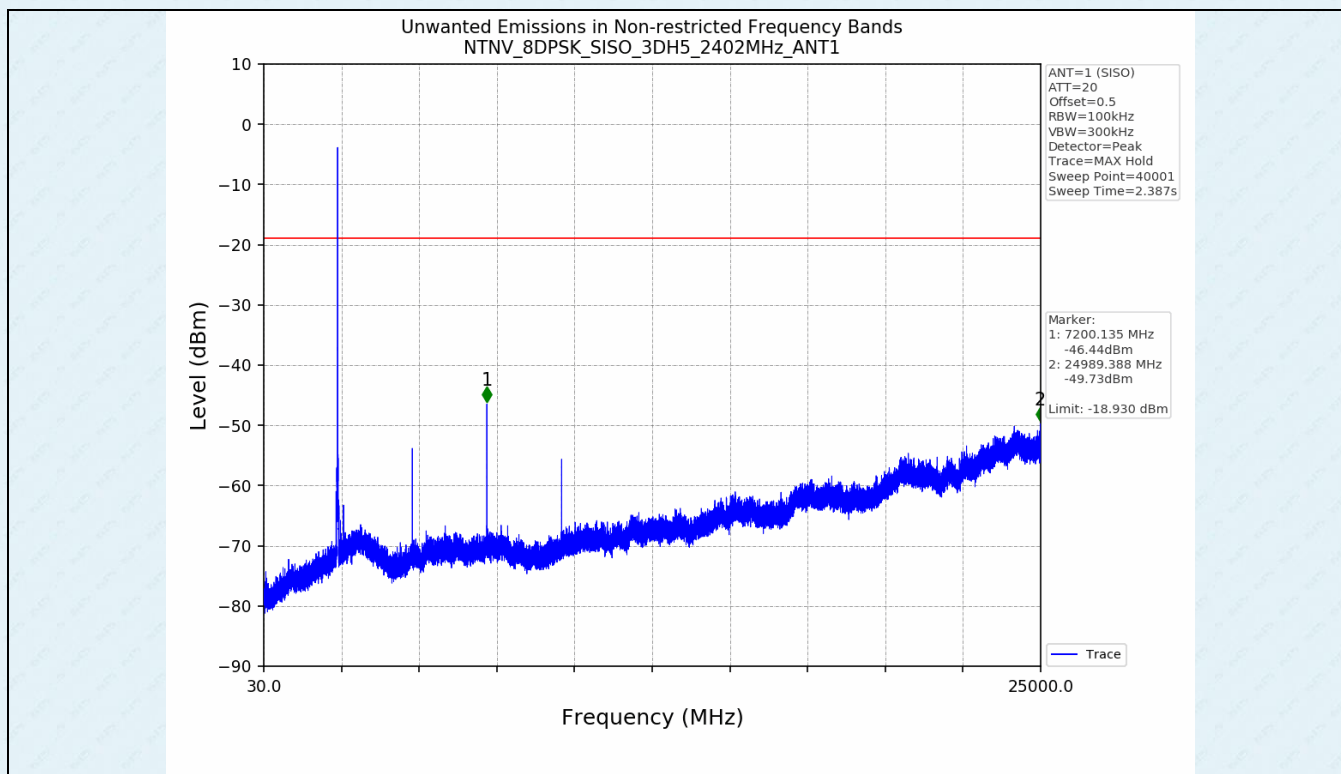
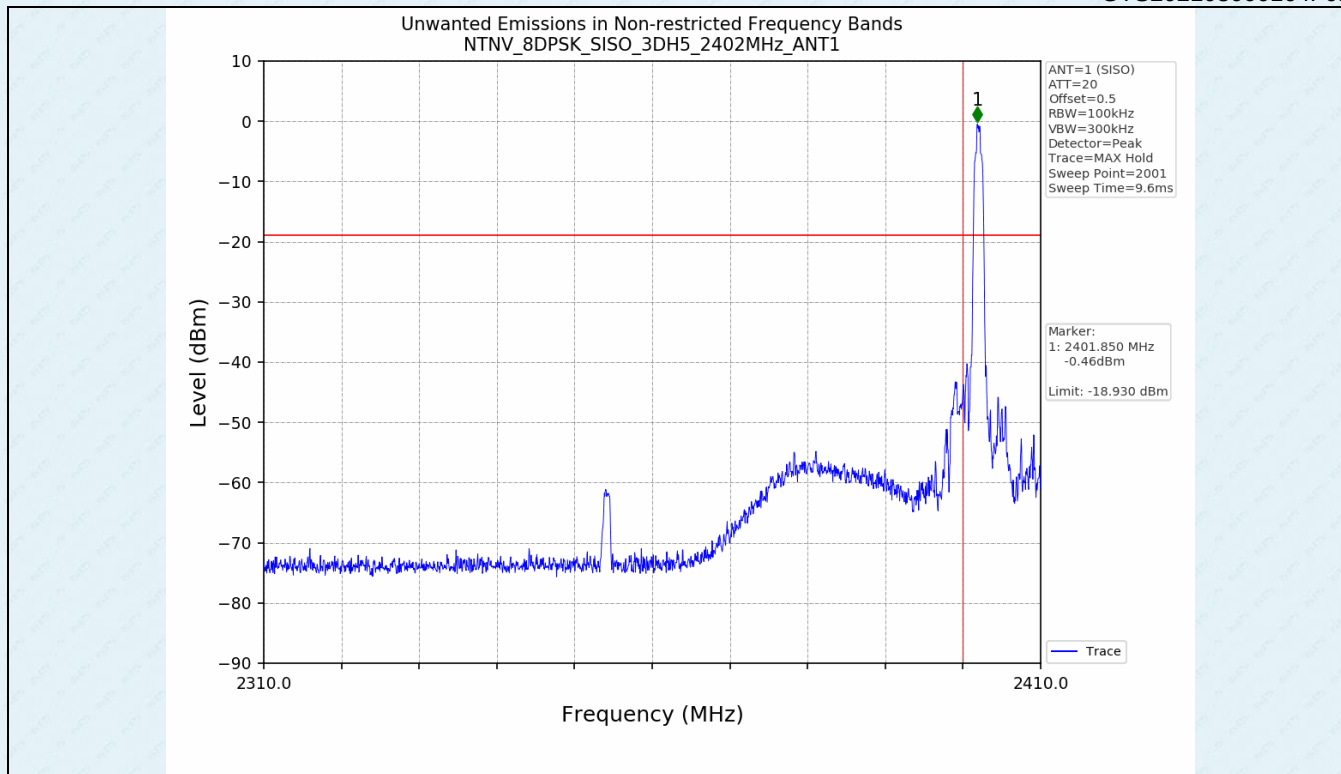


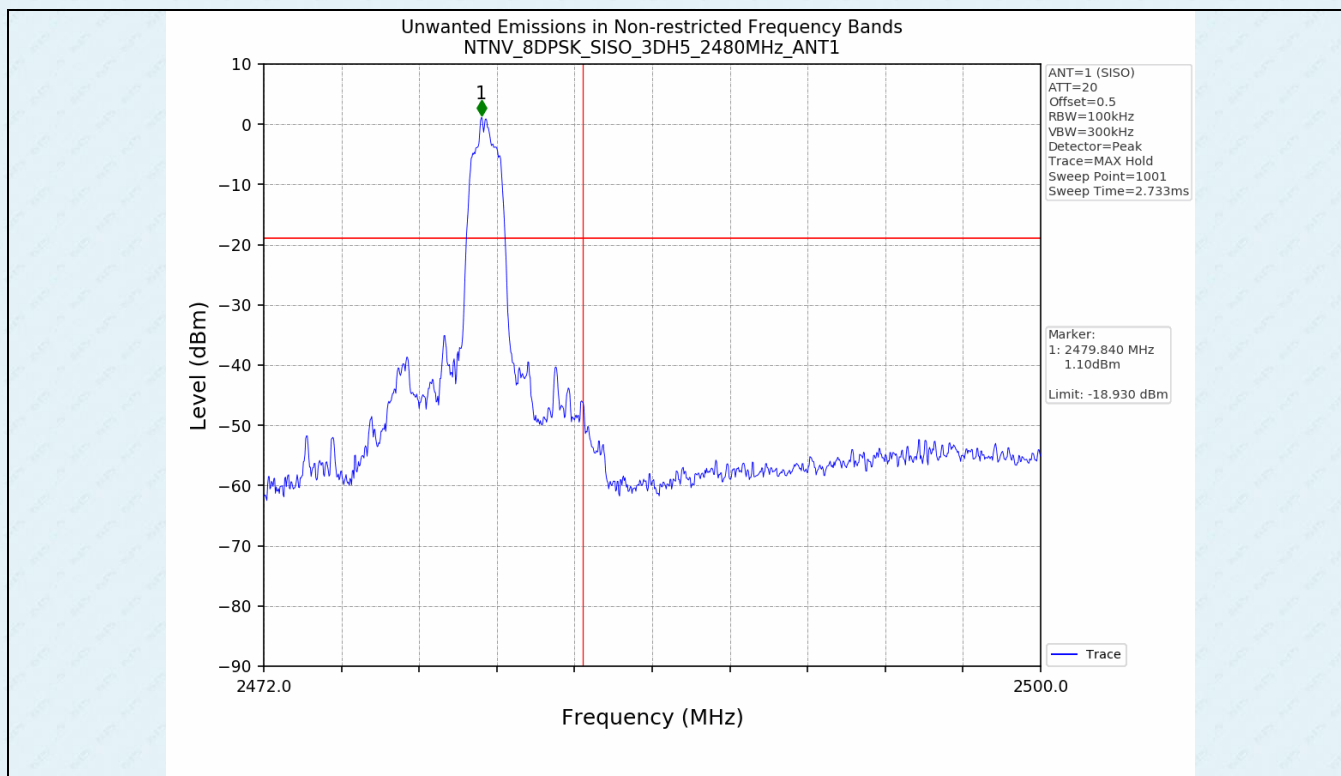
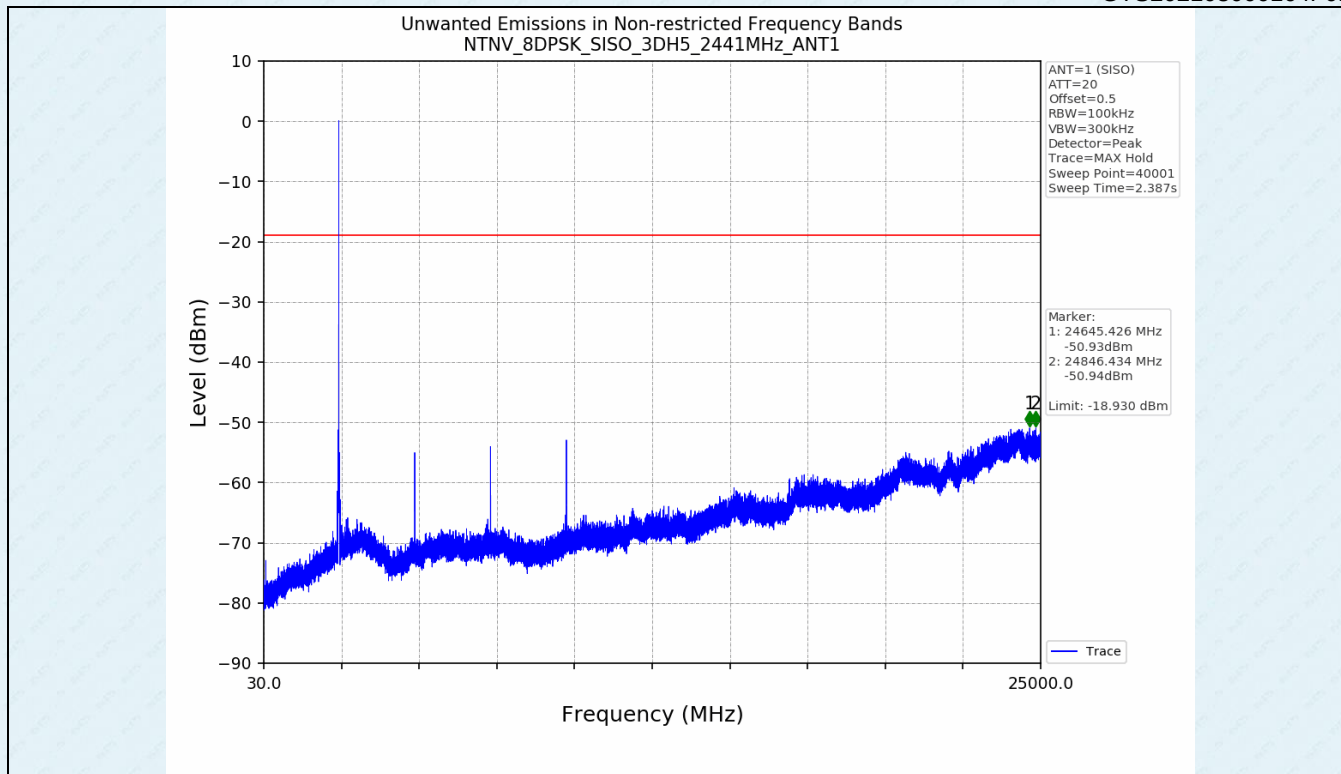


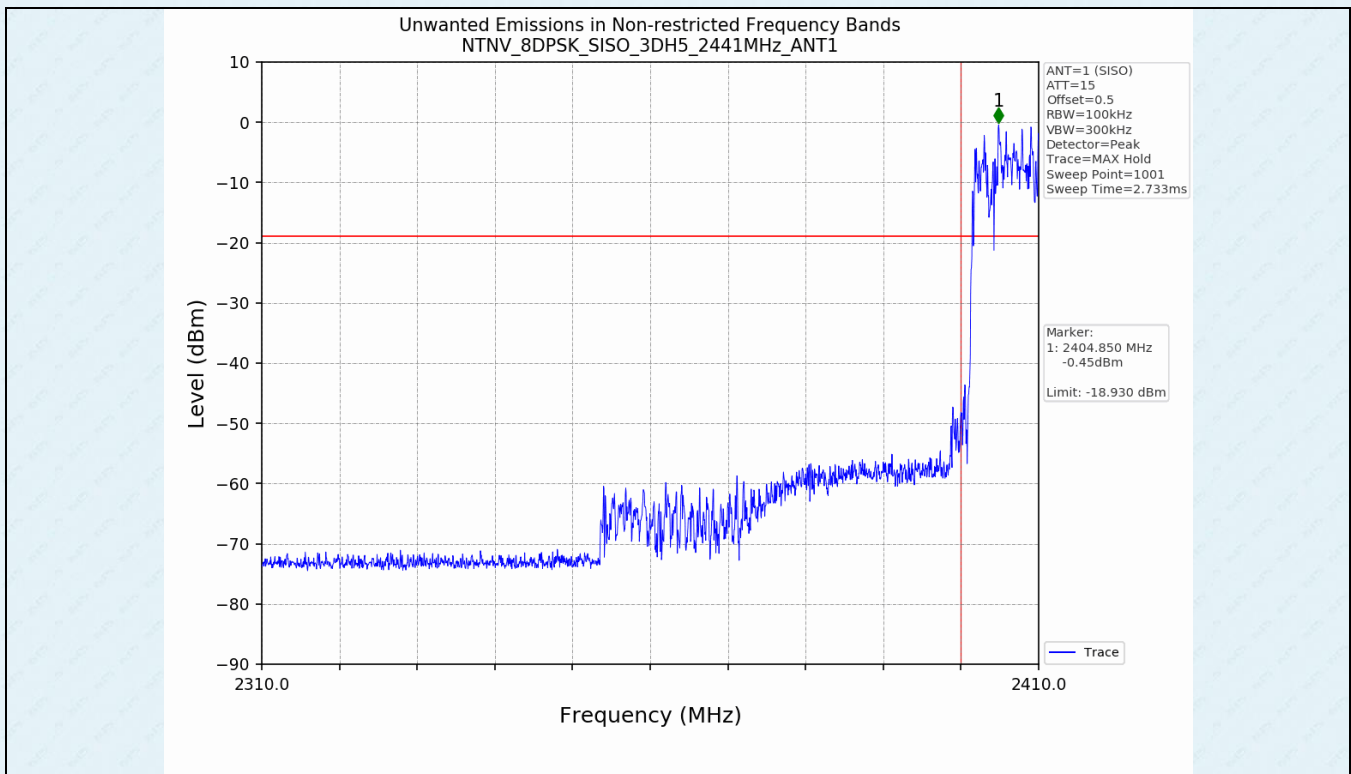
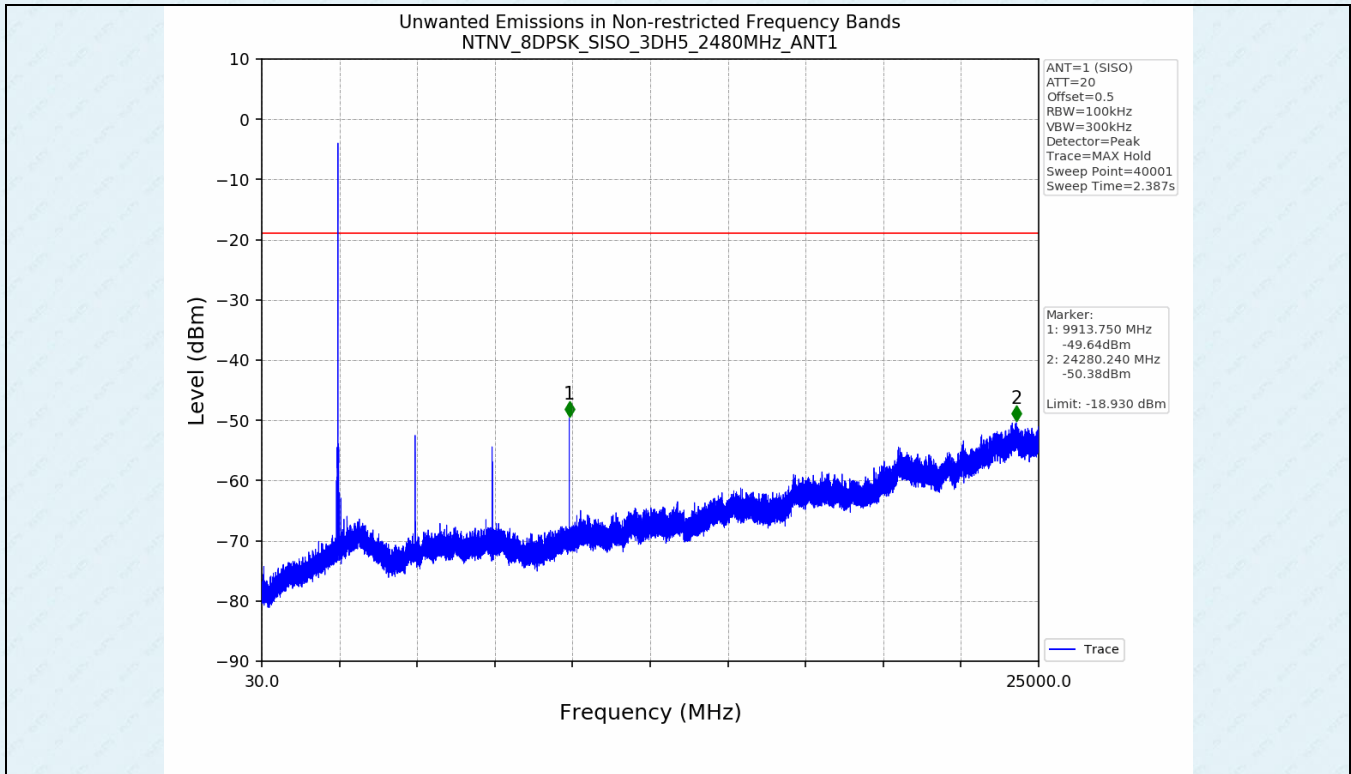


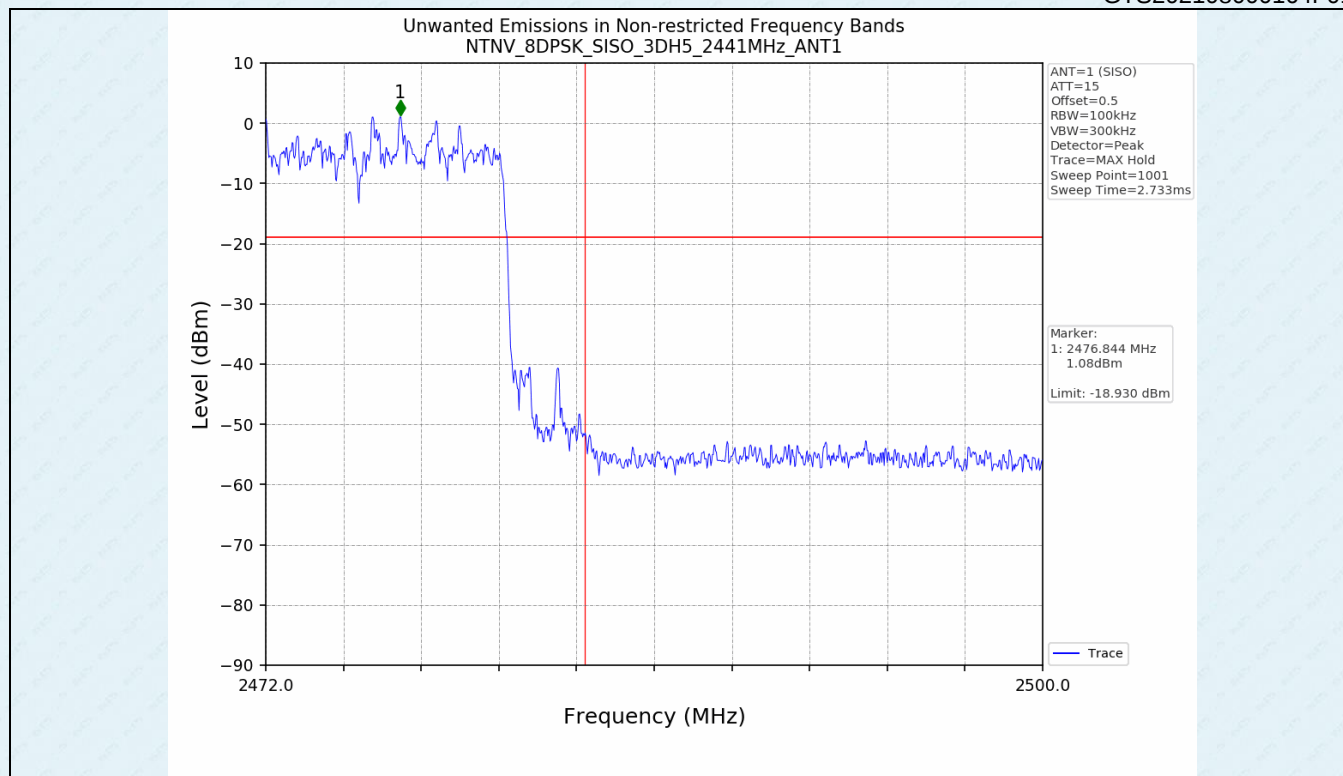










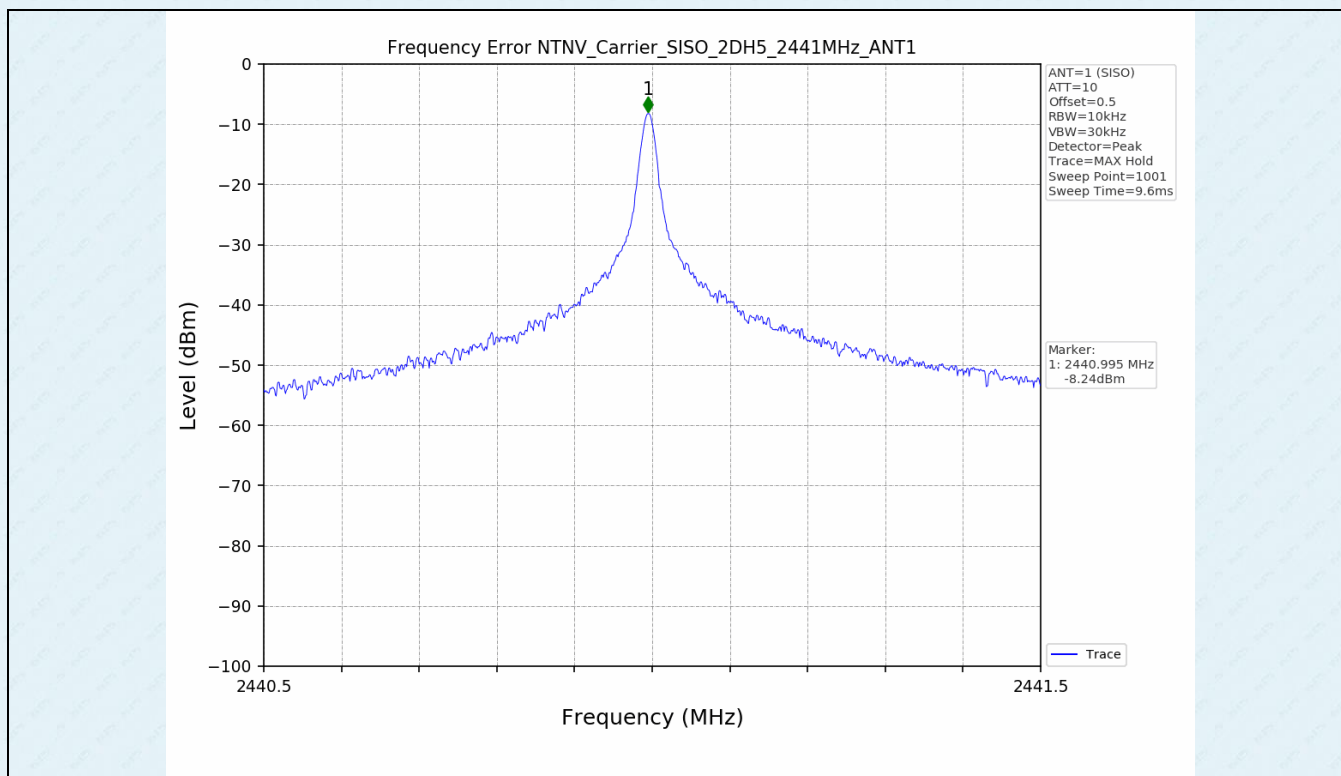
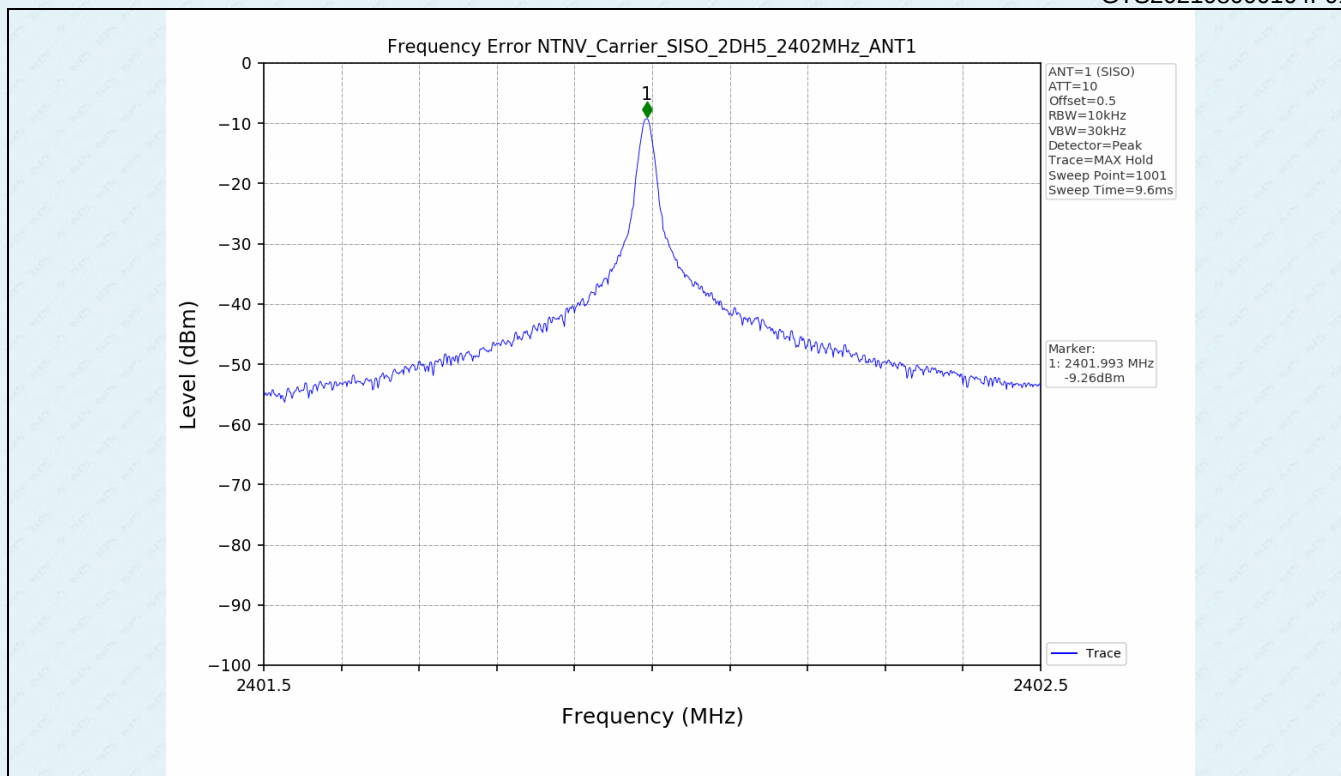


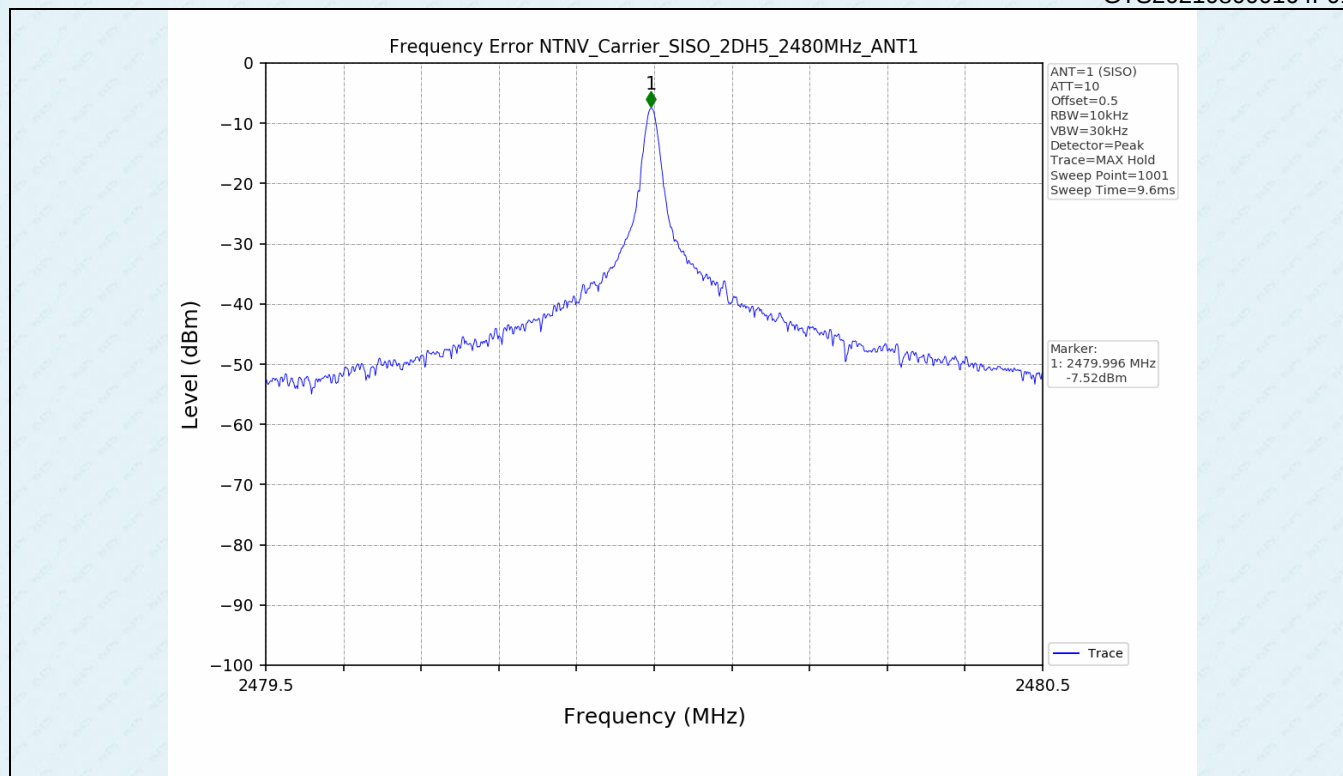
7. Frequency Error

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	2480.00	2400-2483.5	PASS

7.2 Test Graph





-----End-----