

## Appendix for 15.247

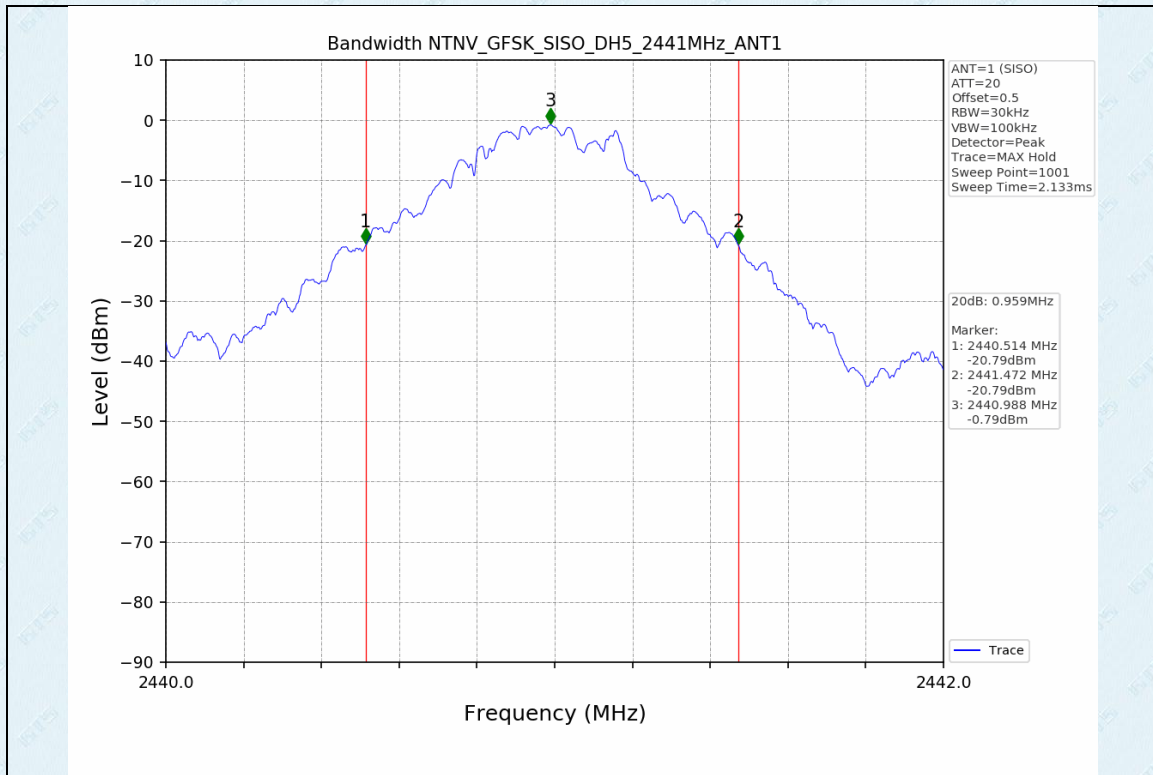
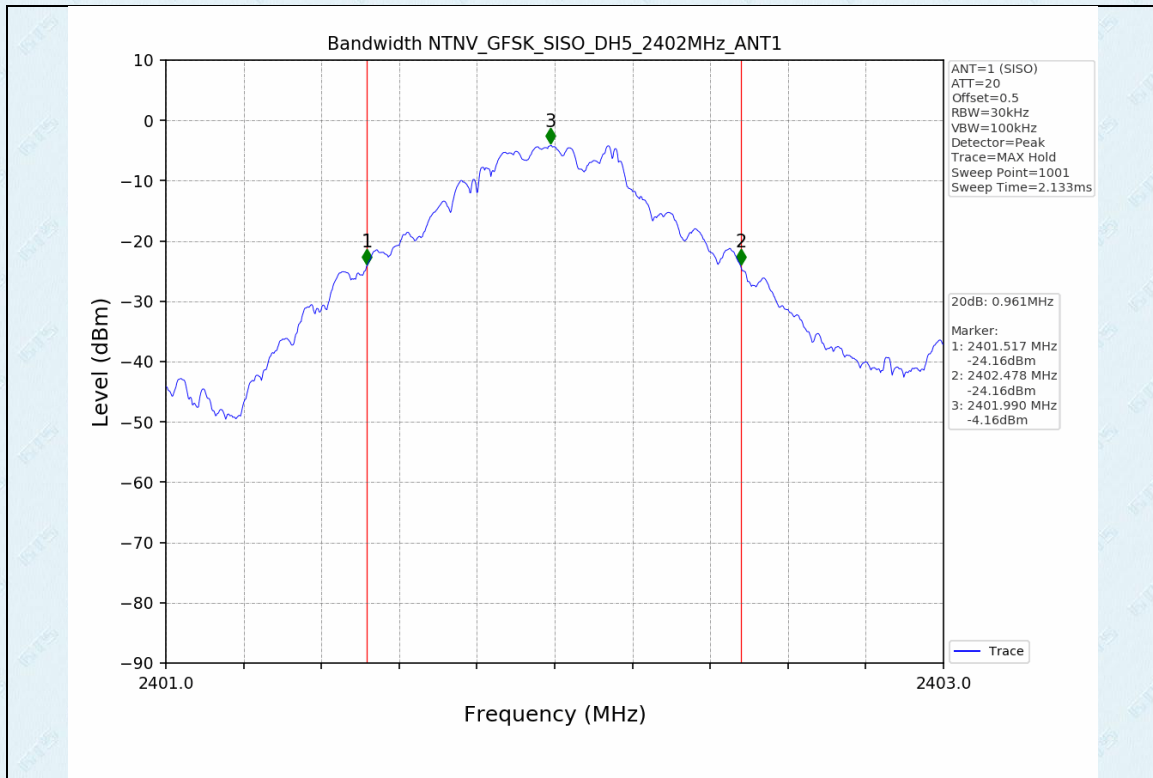
### 1. Bandwidth

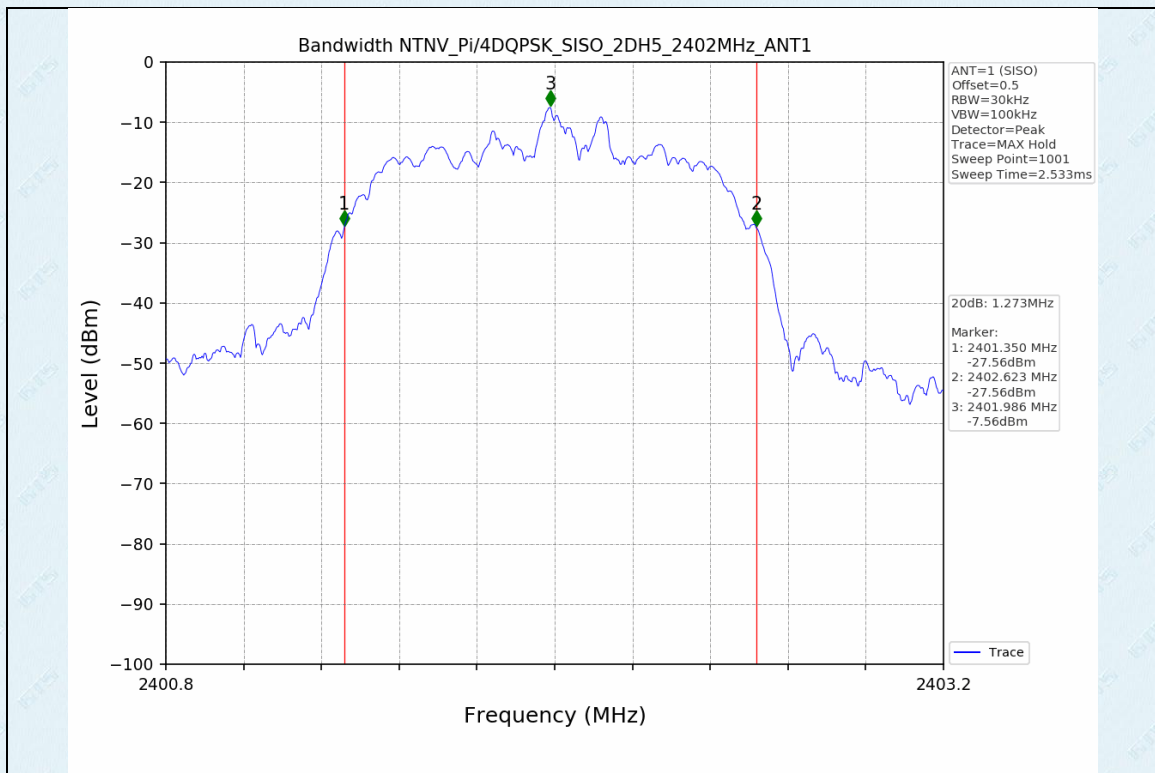
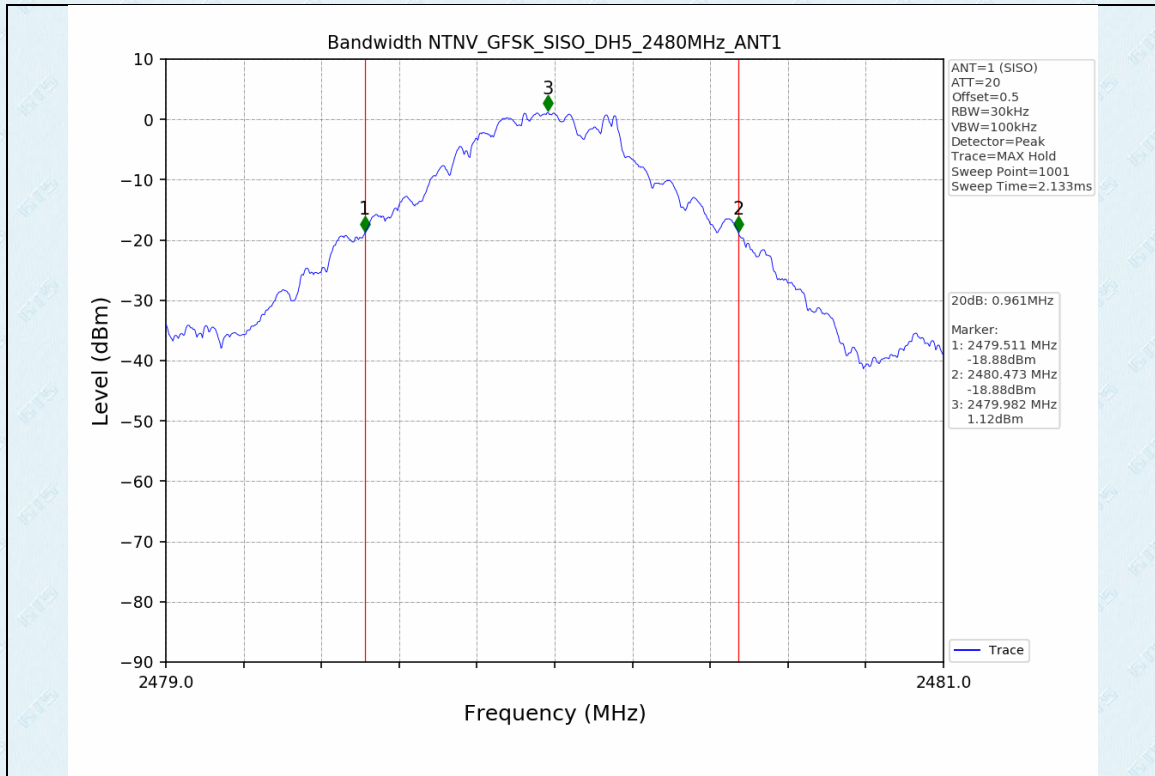
#### 1.1 Test Result

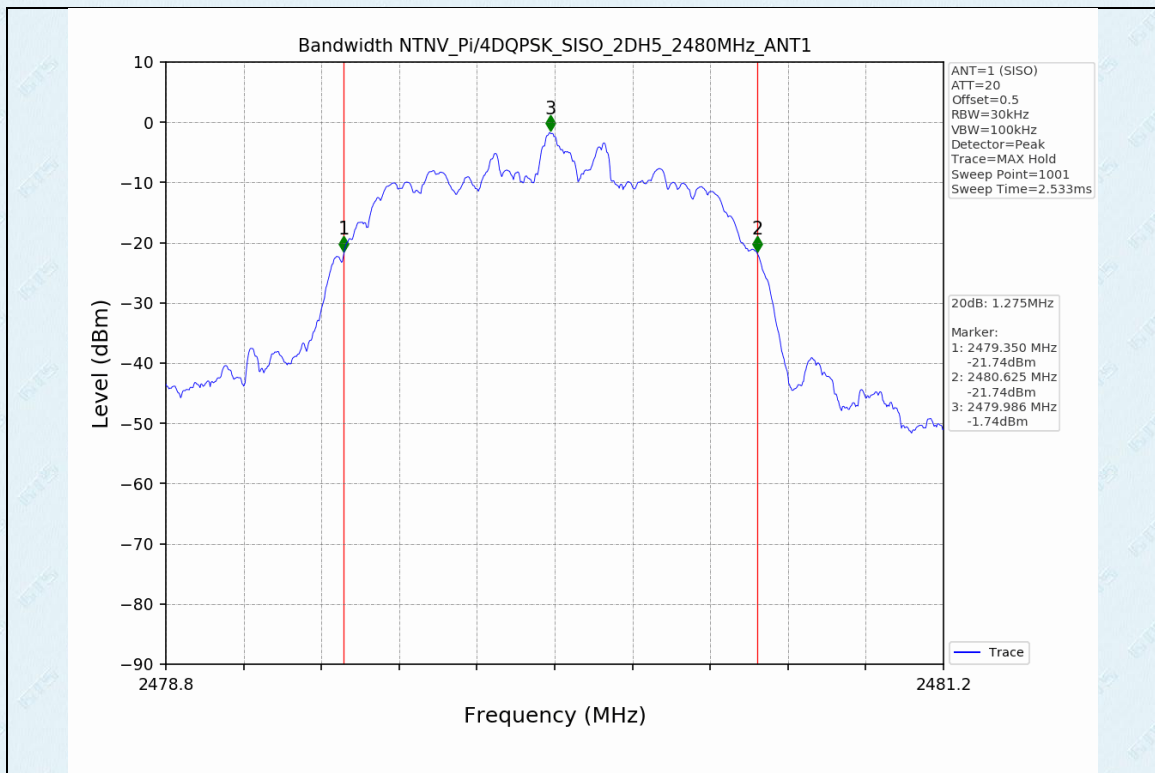
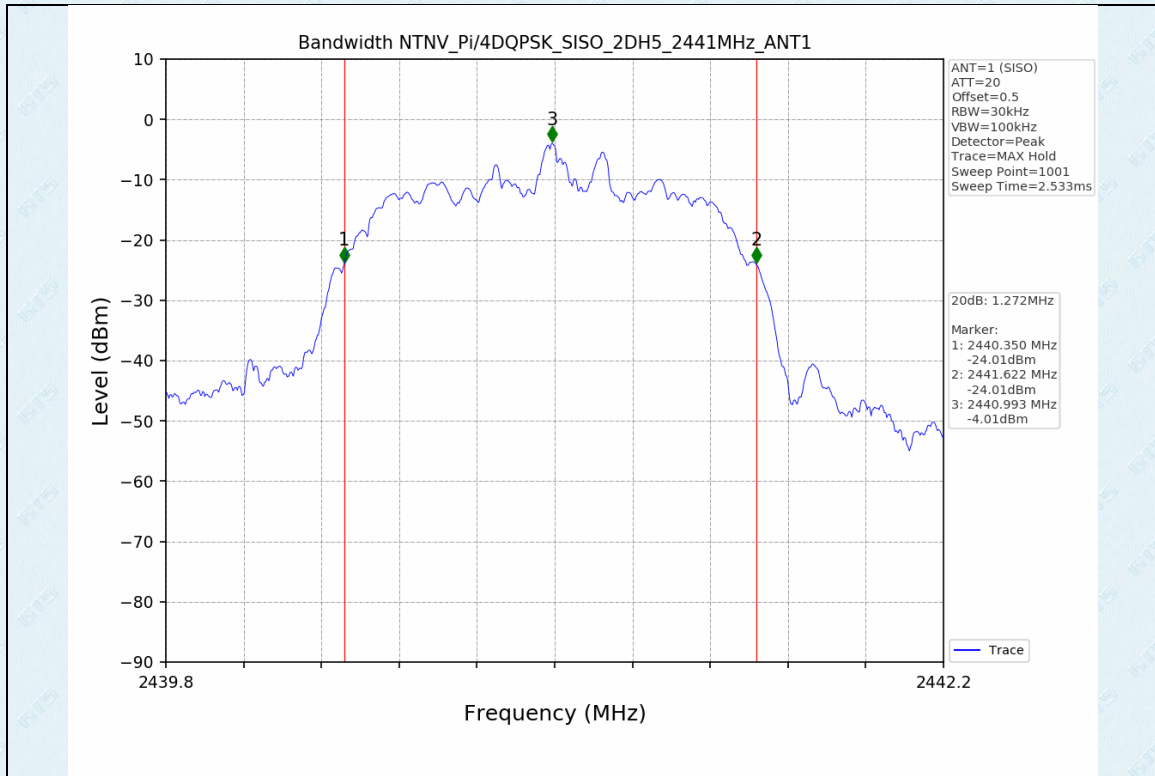
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.961	PASS
	2441	SISO	1	0.959	PASS
	2480	SISO	1	0.961	PASS
$\pi/4$ -DQPSK	2402	SISO	1	1.273	PASS
	2441	SISO	1	1.272	PASS
	2480	SISO	1	1.275	PASS
8-DPSK	2402	SISO	1	1.281	PASS
	2441	SISO	1	1.280	PASS
	2480	SISO	1	1.281	PASS

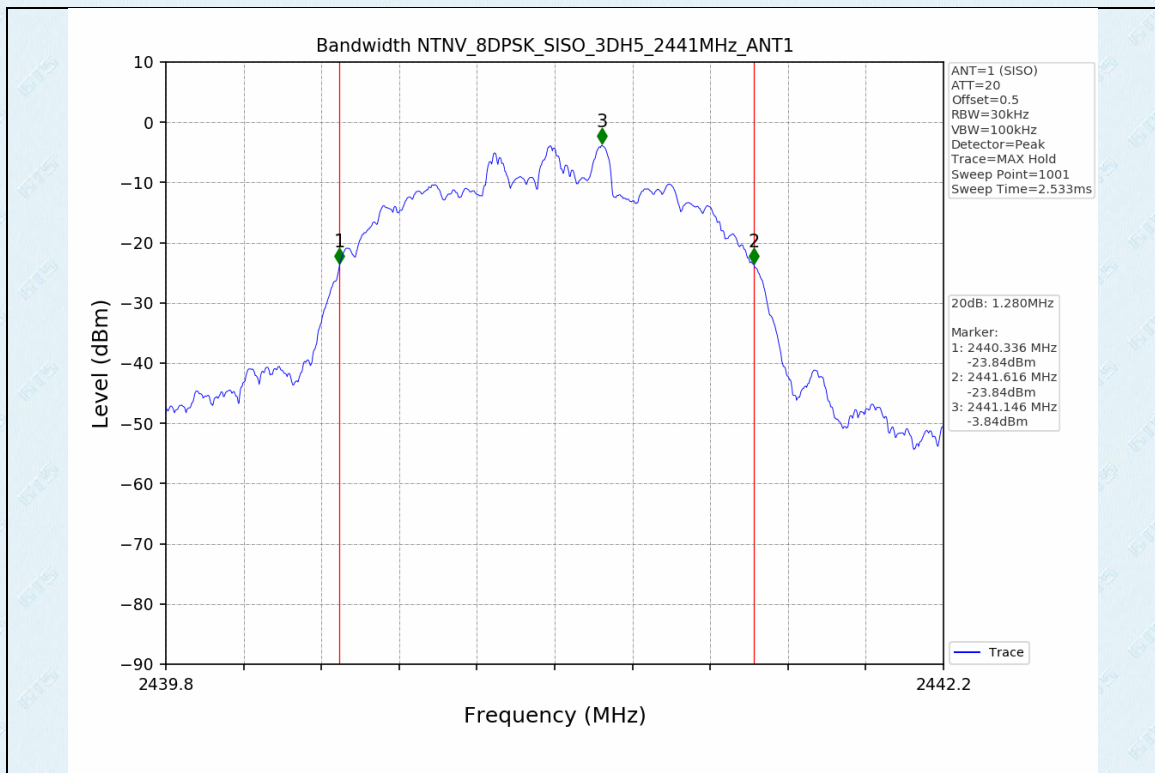
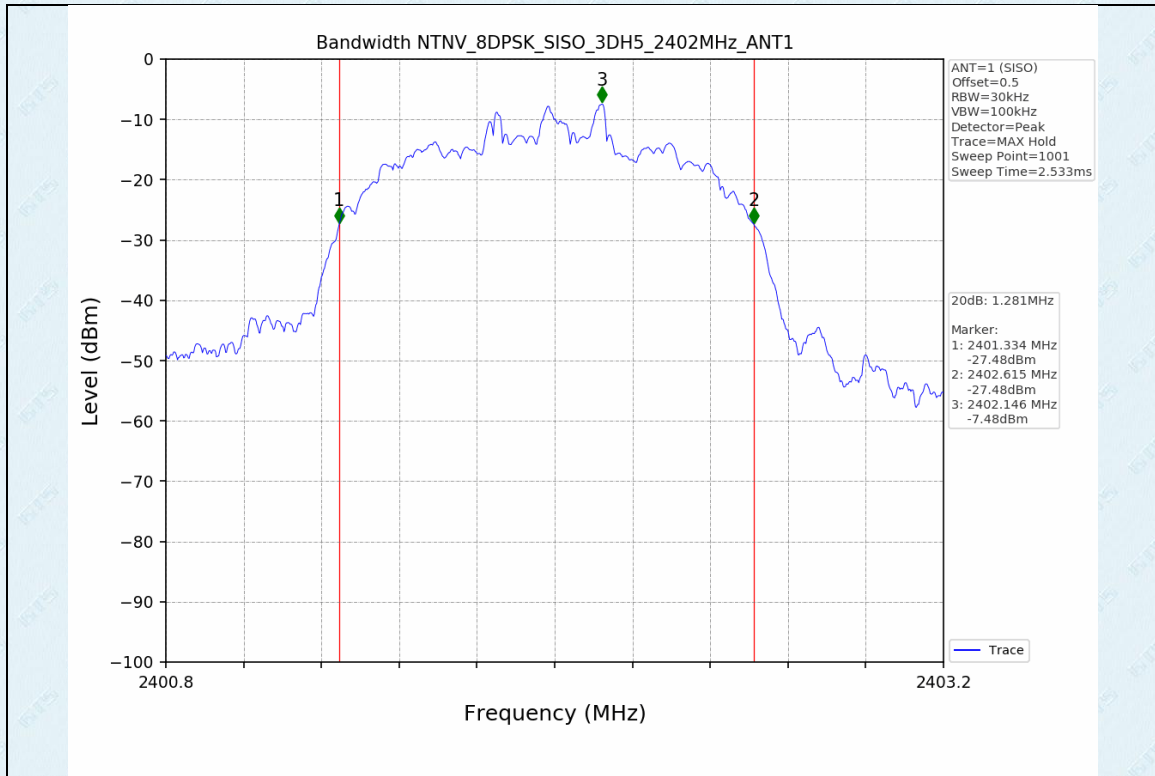
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.877	Only for Report Use
	2441	SISO	1	0.866	Only for Report Use
	2480	SISO	1	0.868	Only for Report Use
$\pi/4$ -DQPSK	2402	SISO	1	1.166	Only for Report Use
	2441	SISO	1	1.166	Only for Report Use
	2480	SISO	1	1.169	Only for Report Use
8-DPSK	2402	SISO	1	1.159	Only for Report Use
	2441	SISO	1	1.157	Only for Report Use
	2480	SISO	1	1.159	Only for Report Use

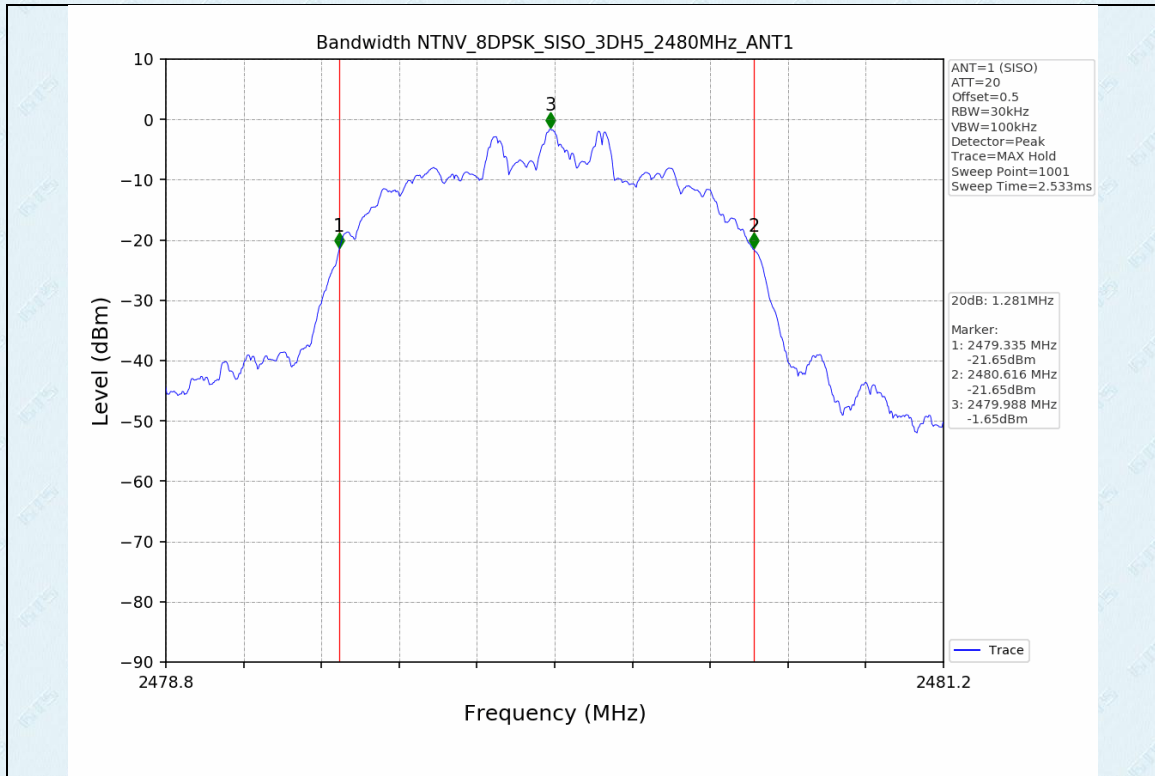
## 1.2 Test Graph - 20dB Bandwidth



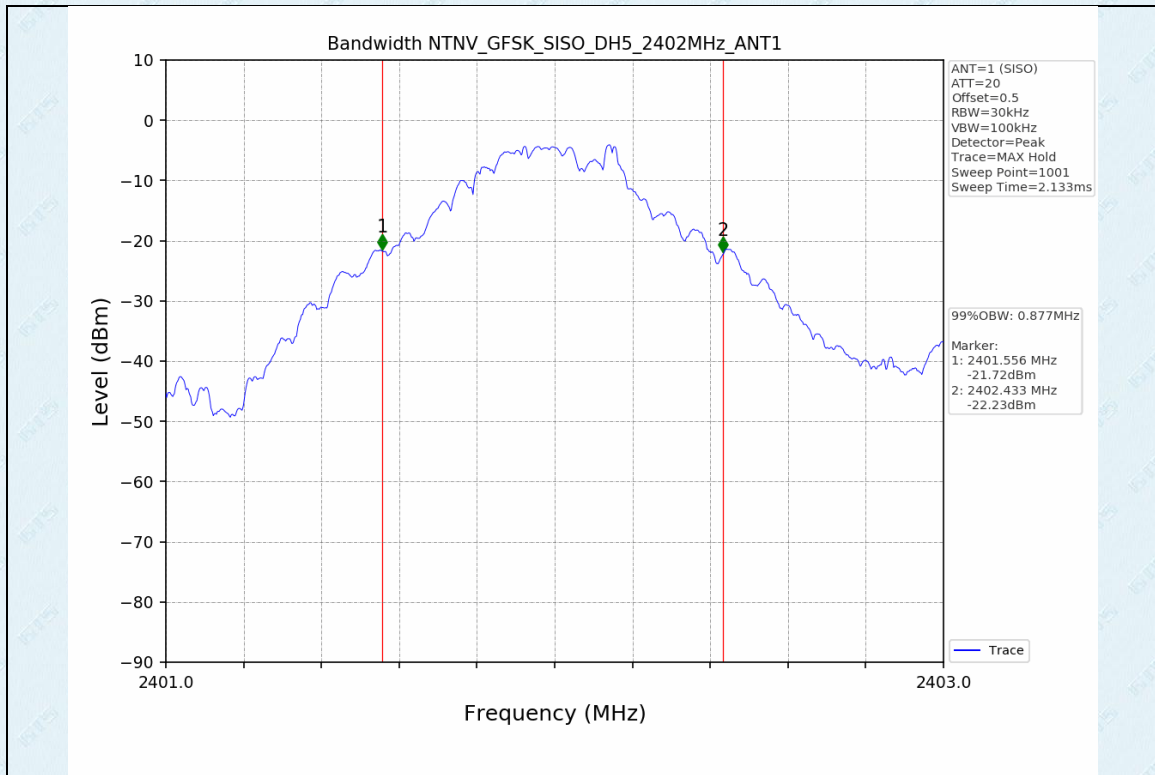


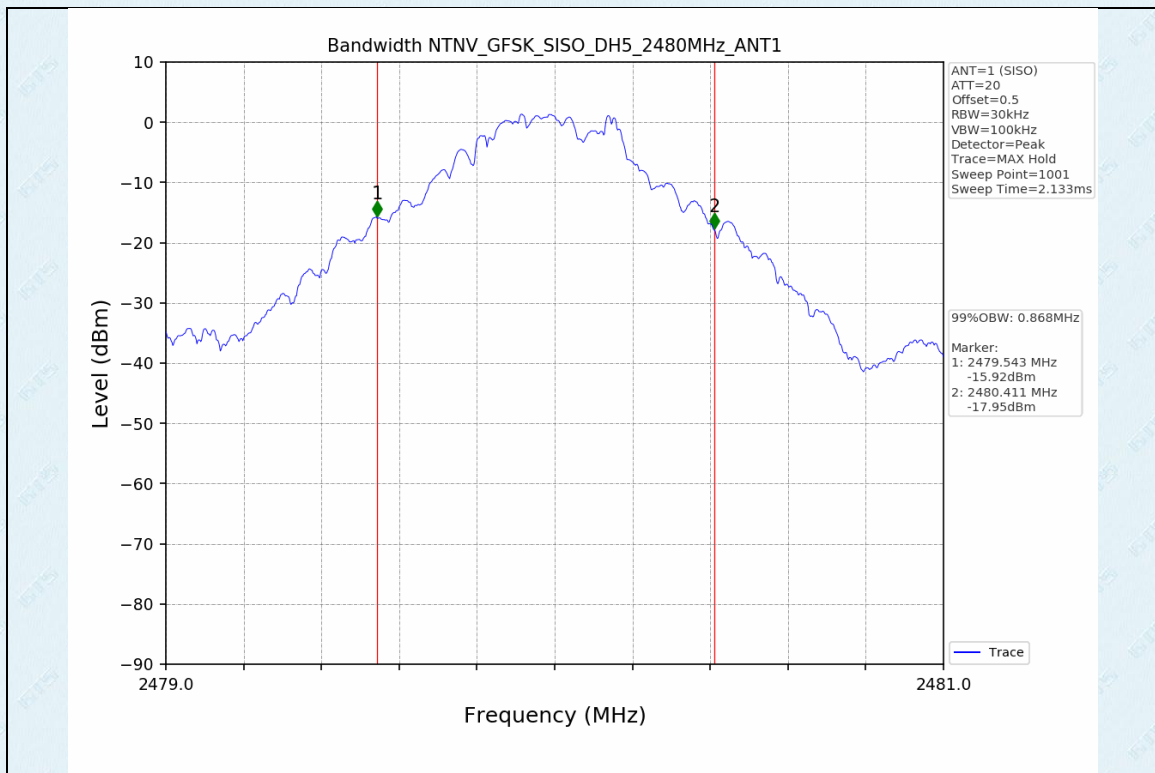
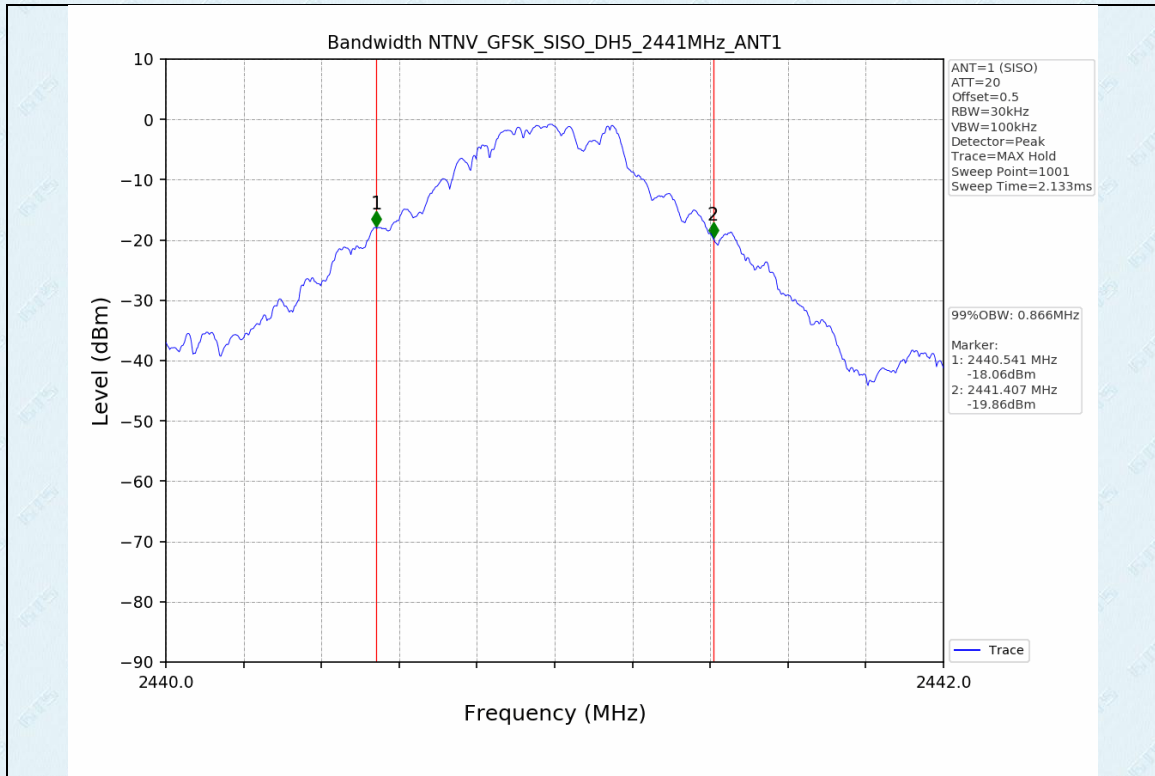


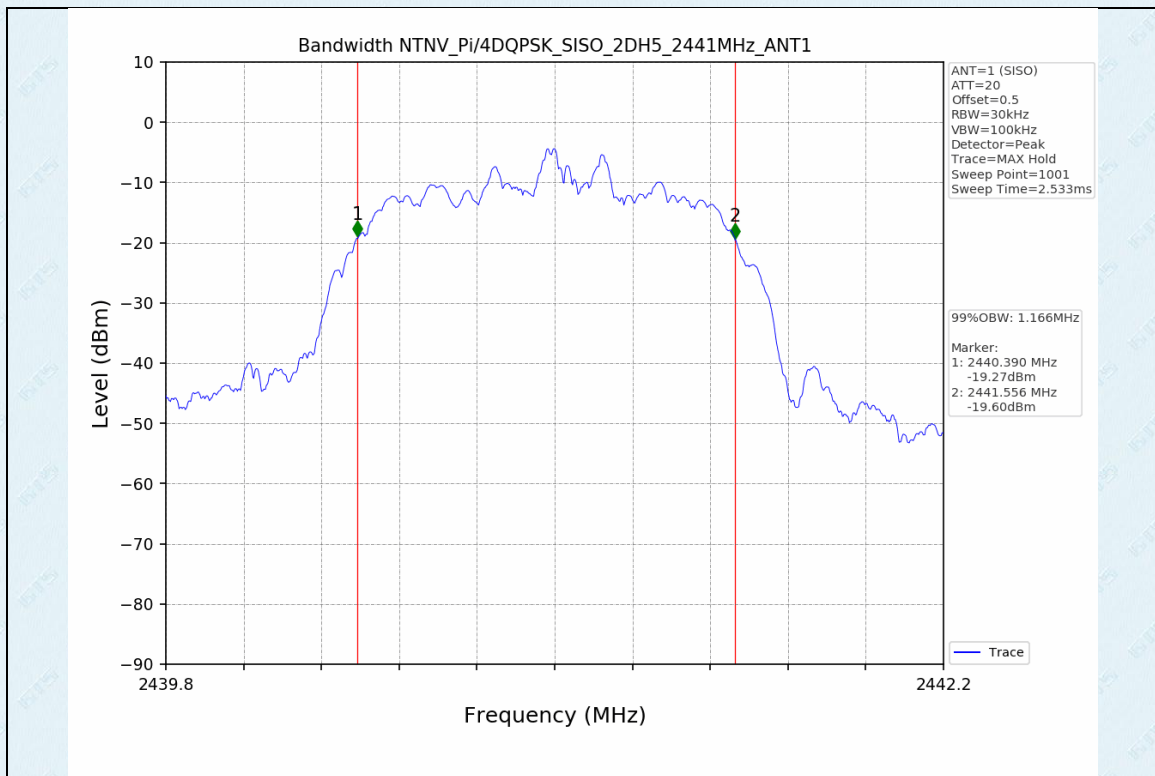
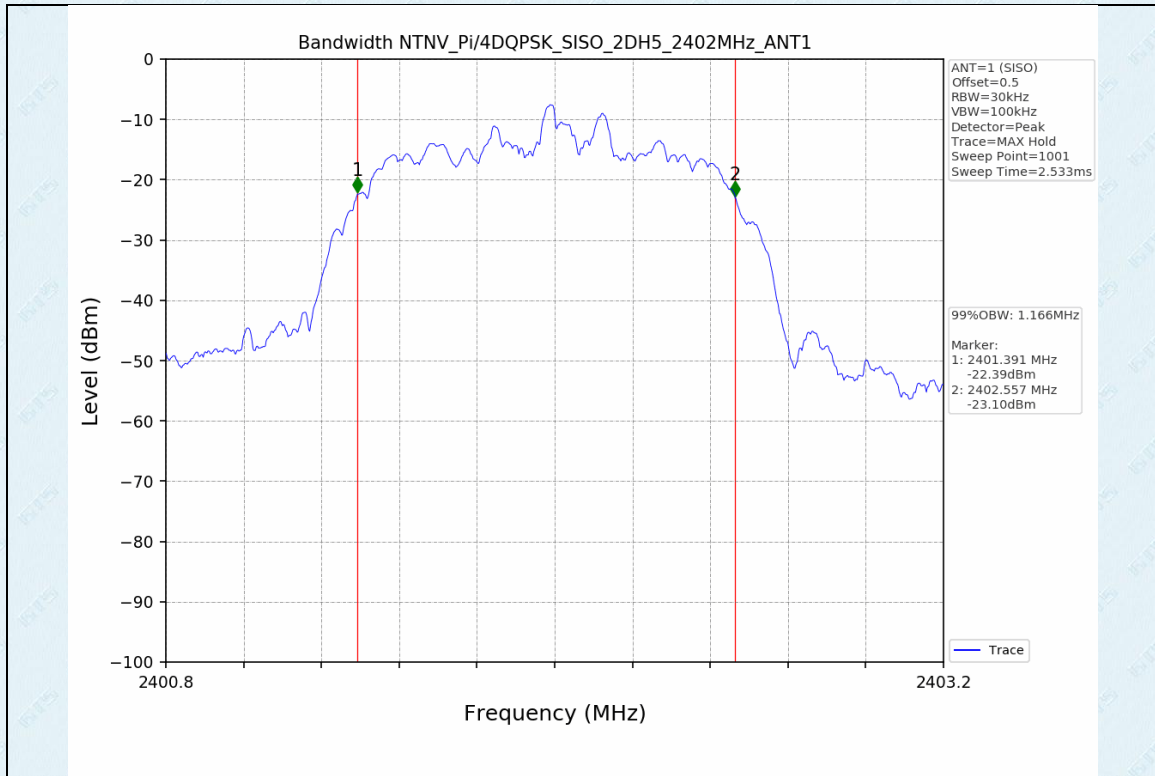




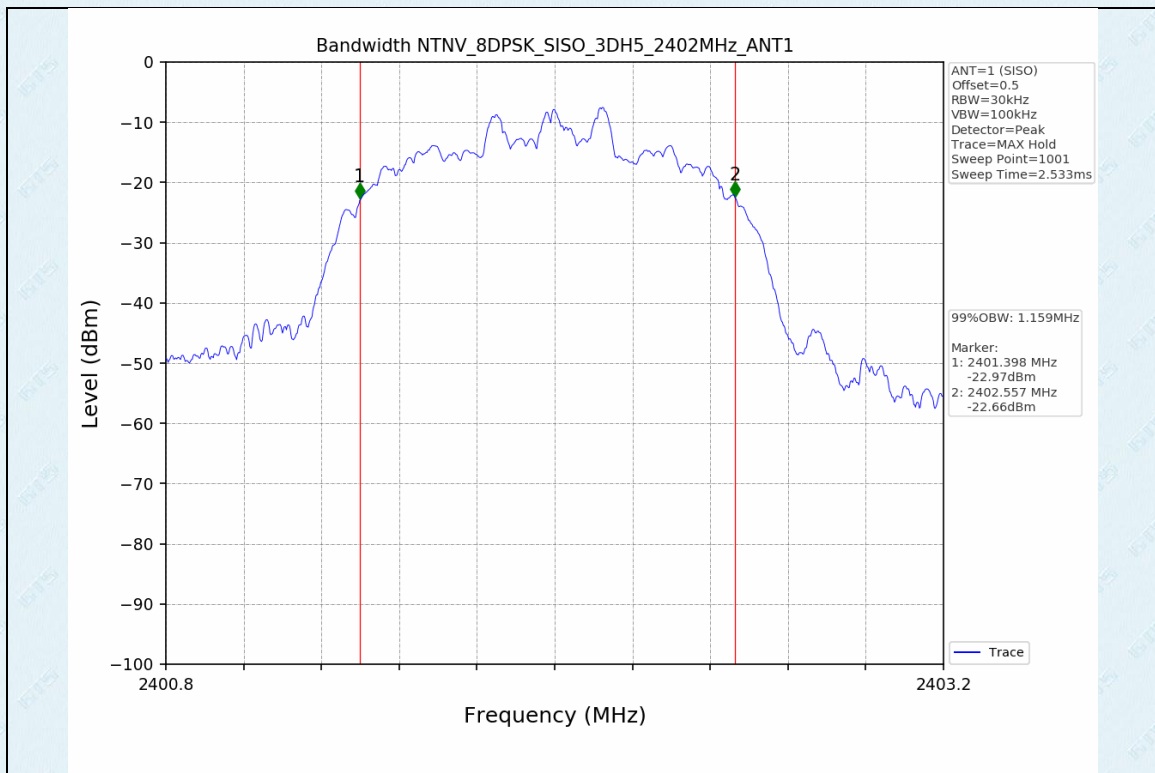
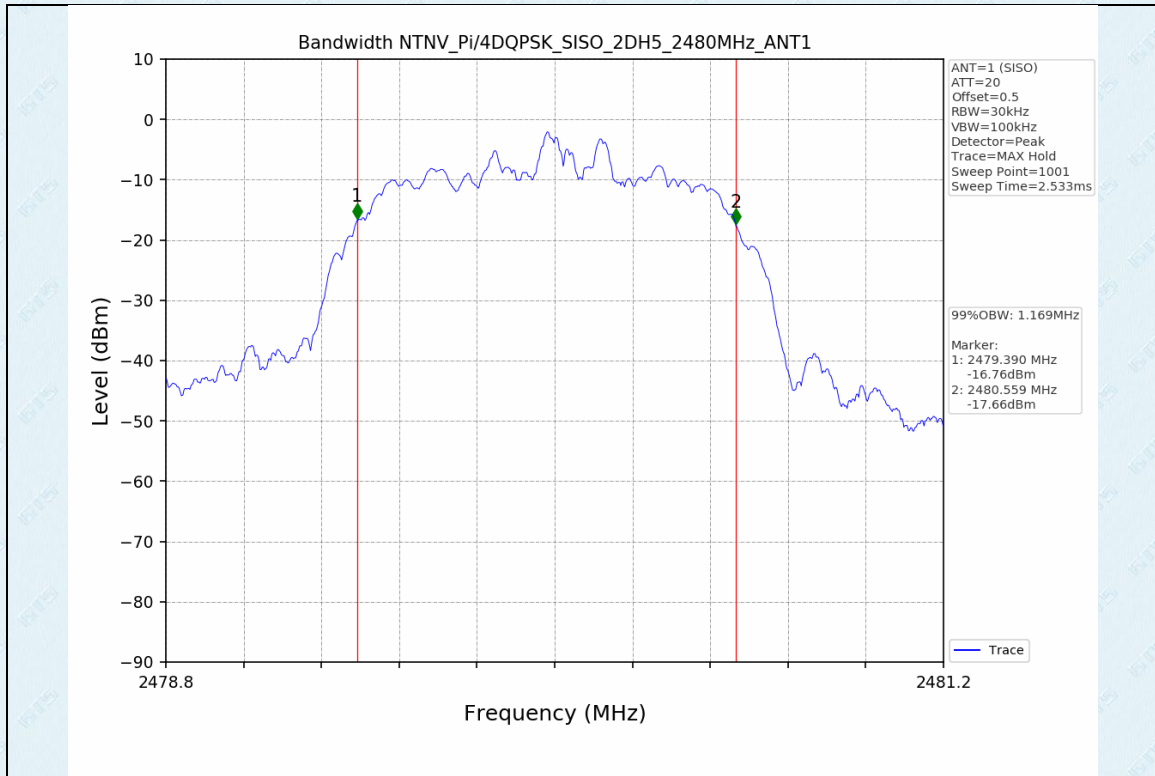
### 1.3 Test Graph - 99% Occupied Bandwidth

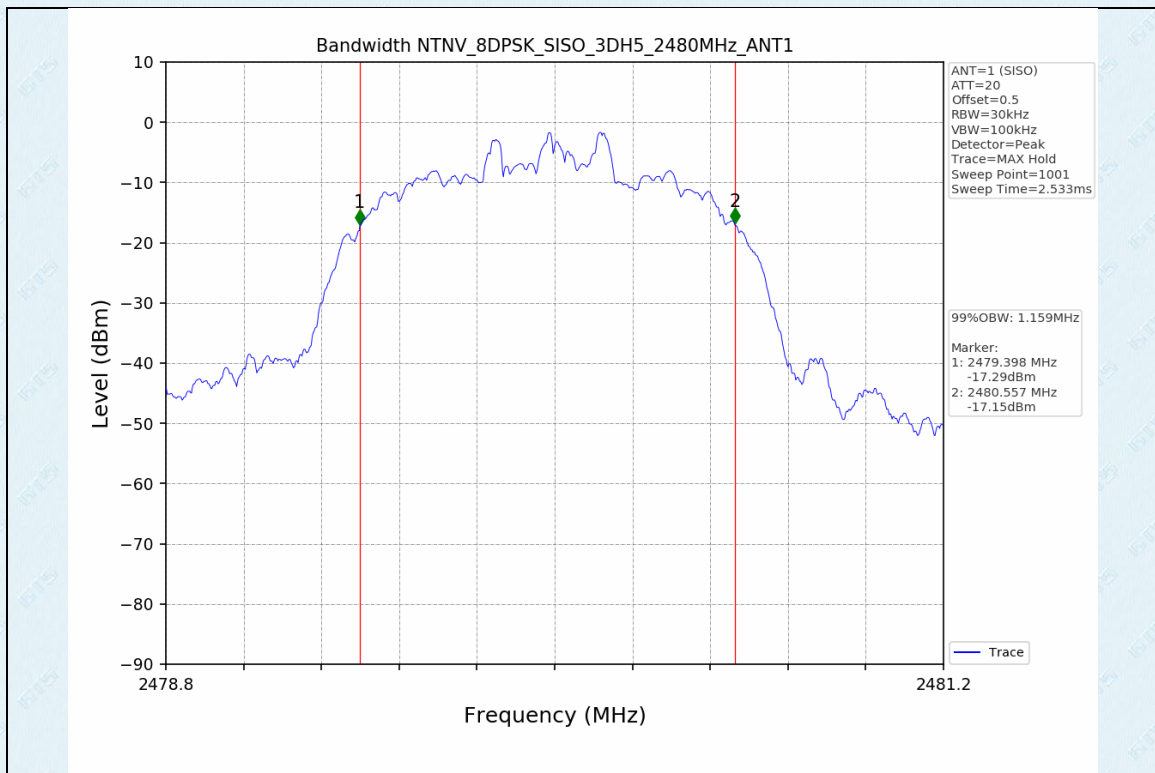
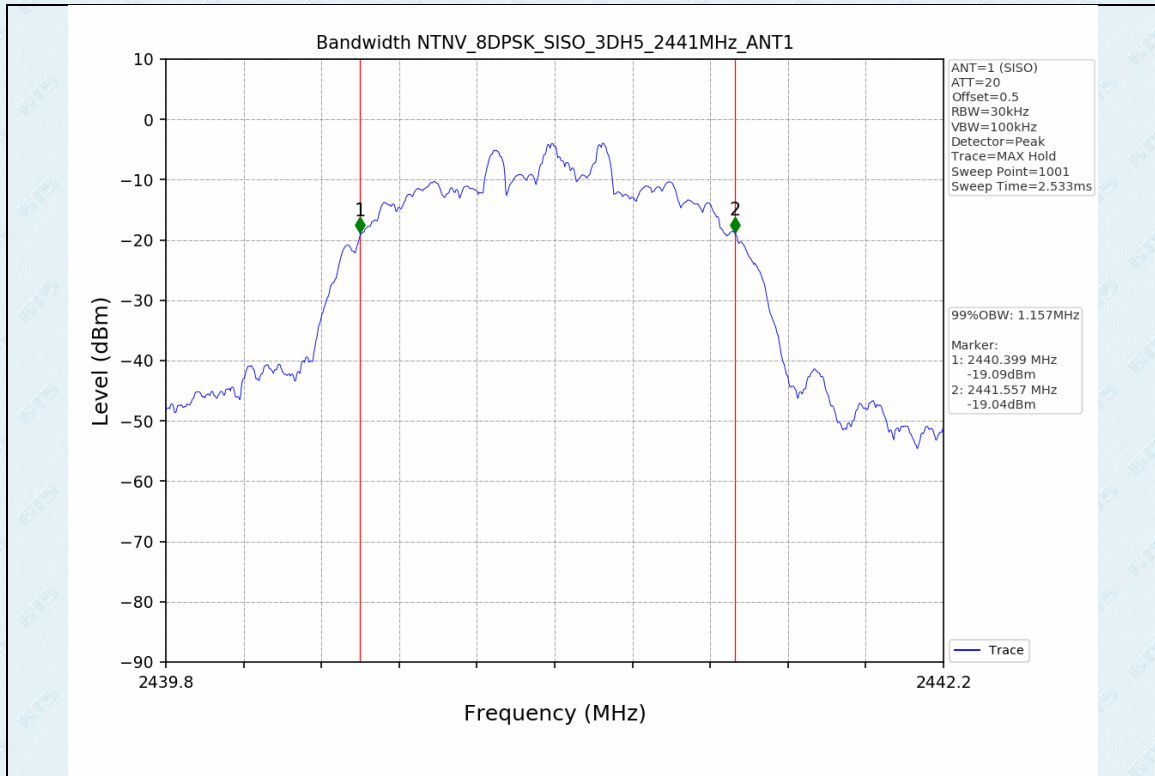










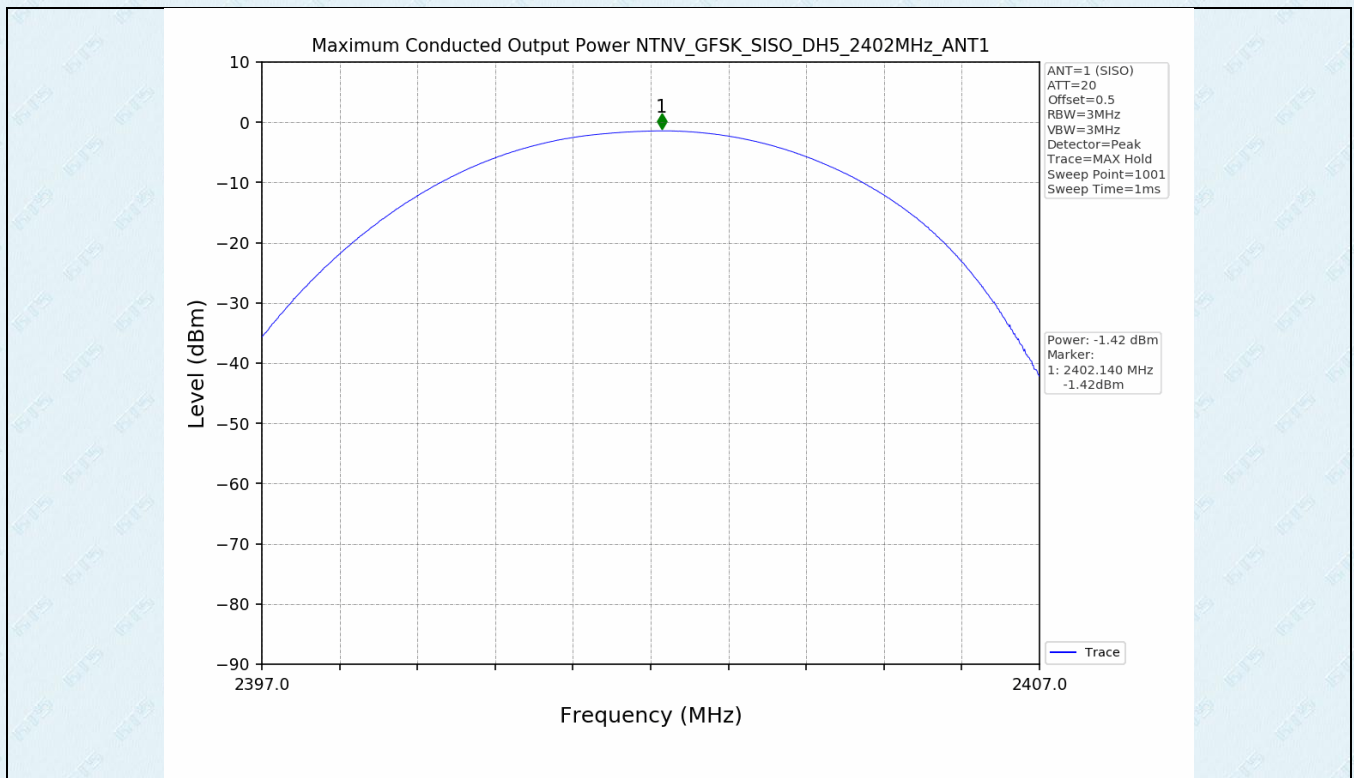


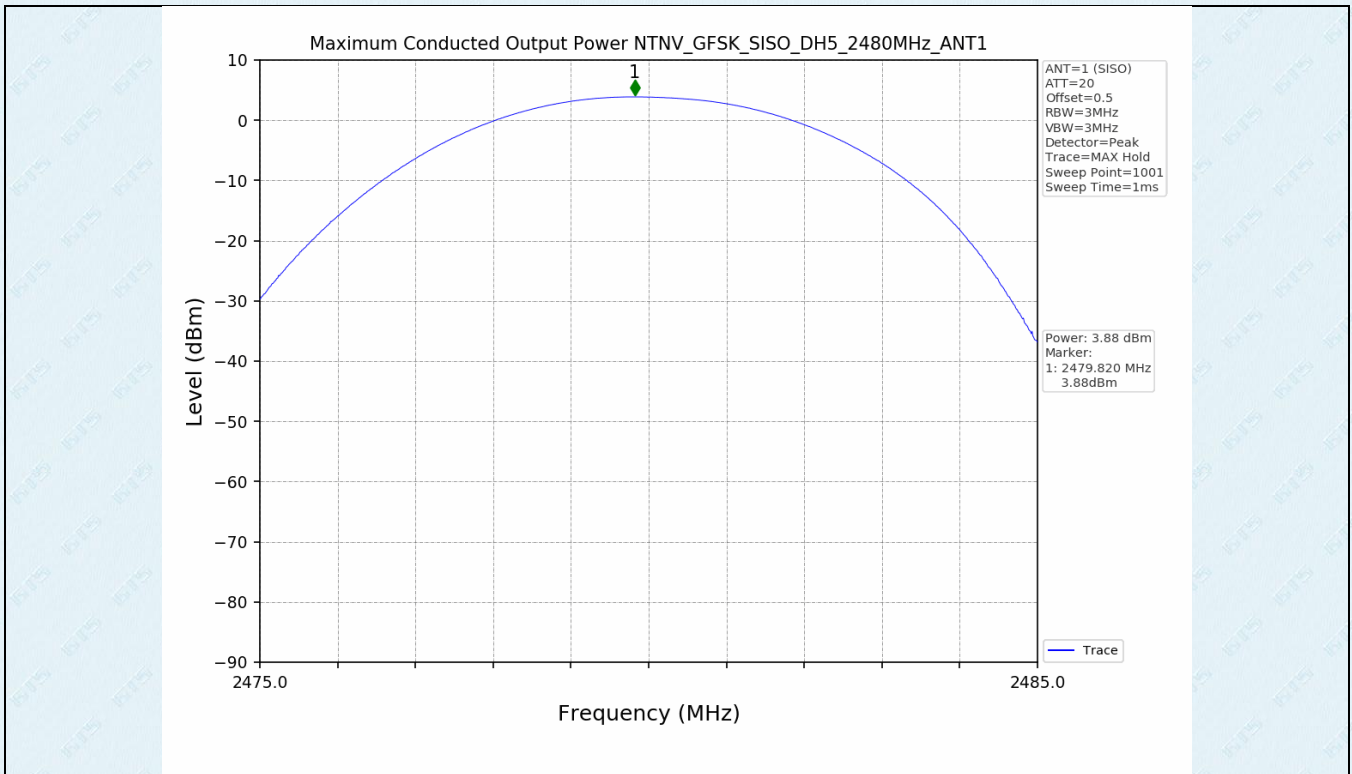
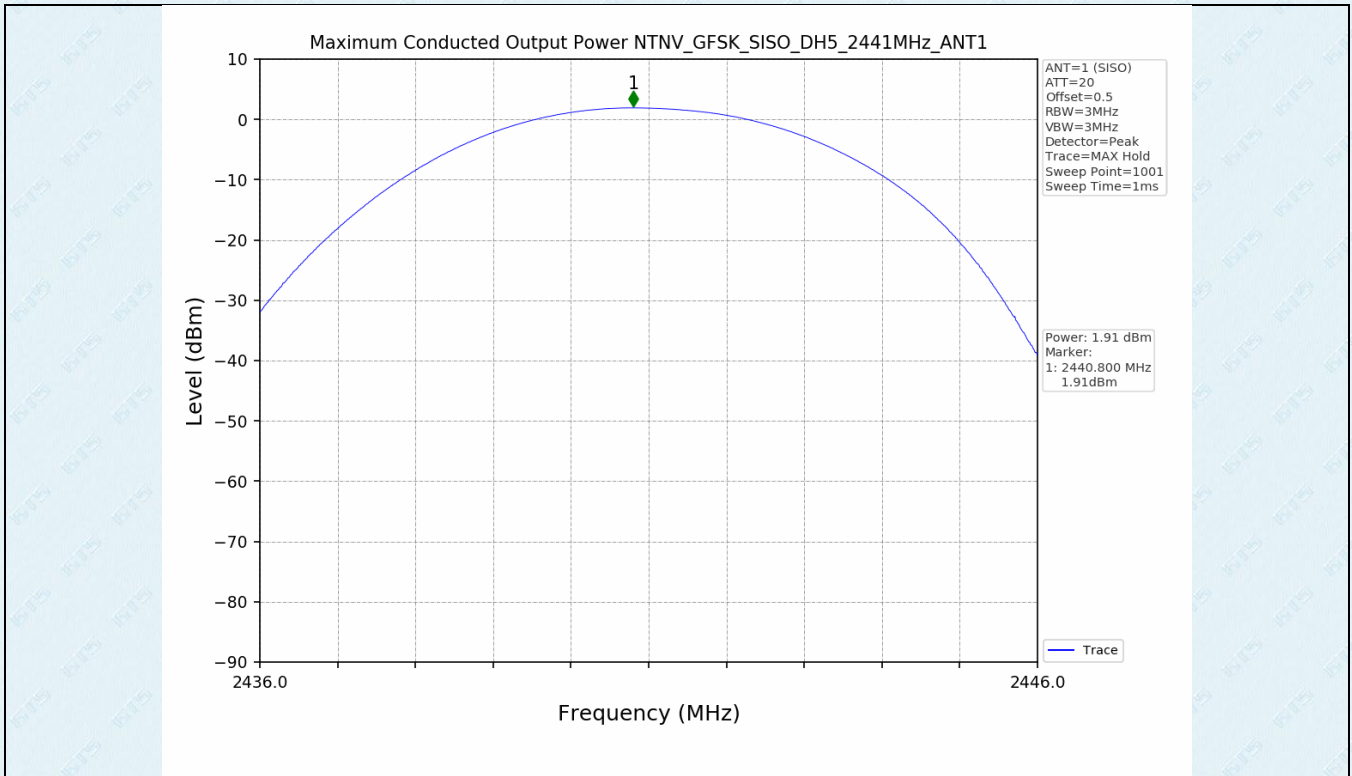
## 2. Maximum Conducted Output Power

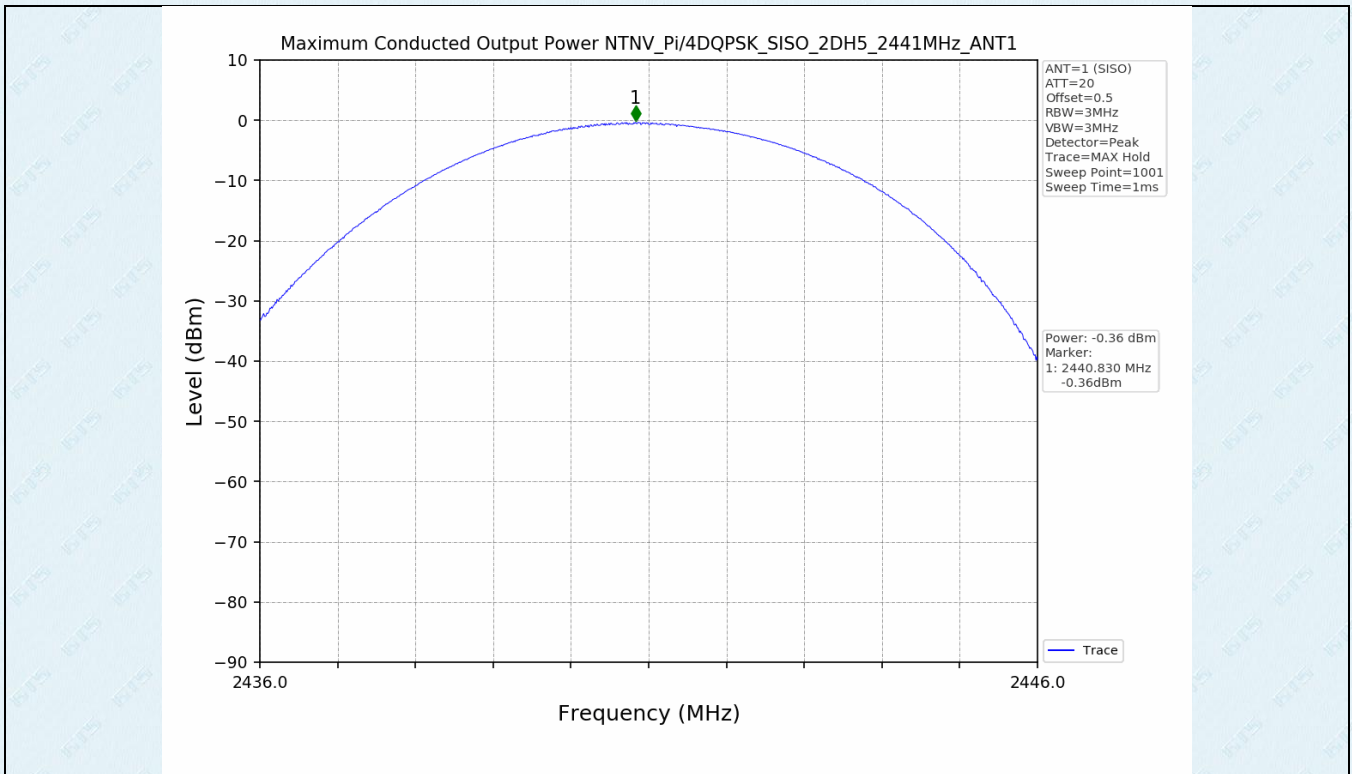
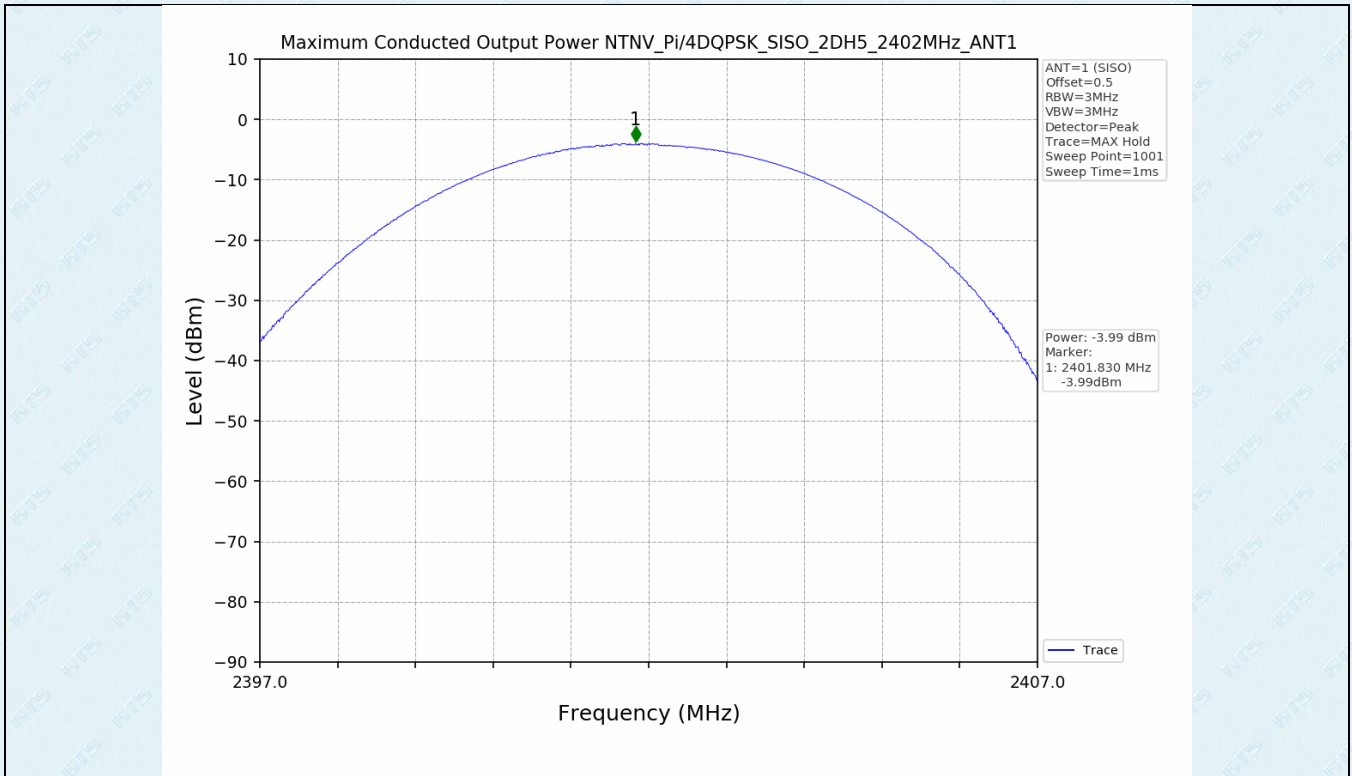
### 2.1 Test Result

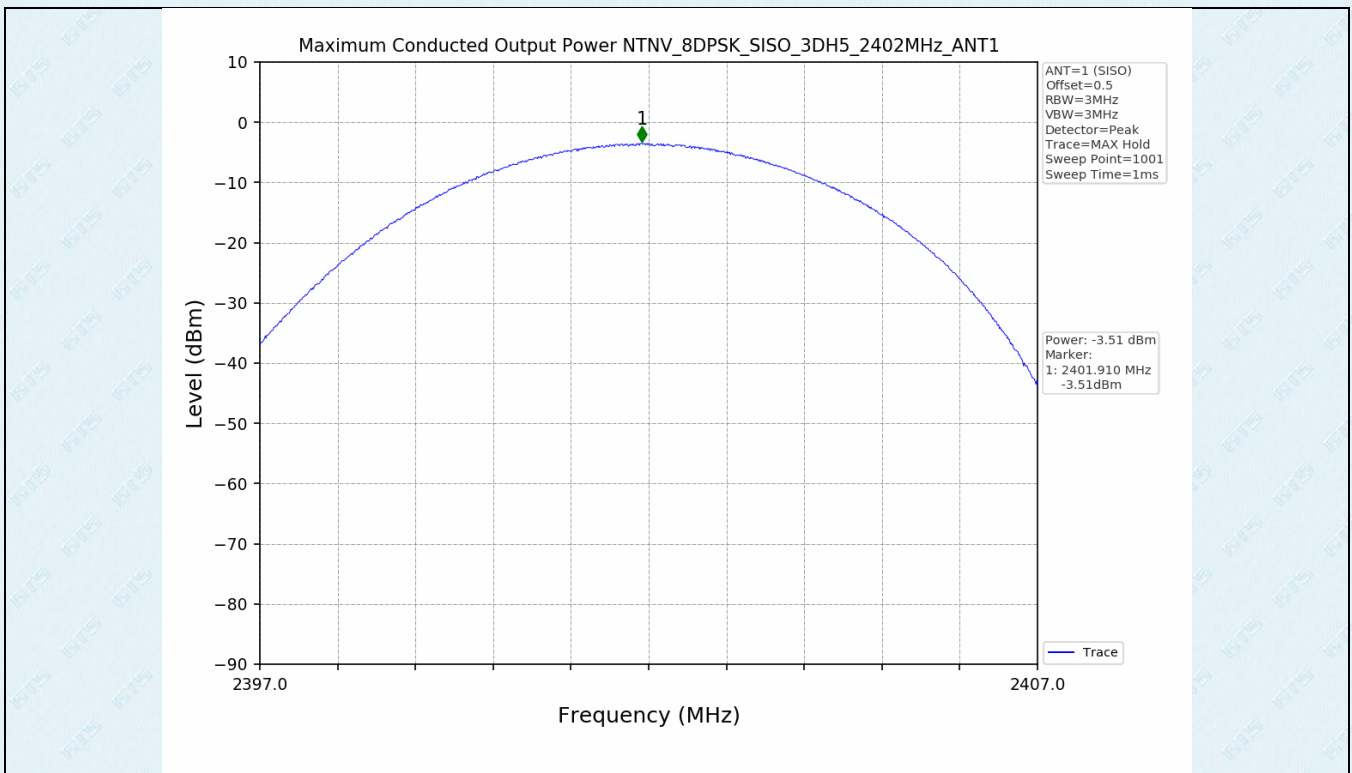
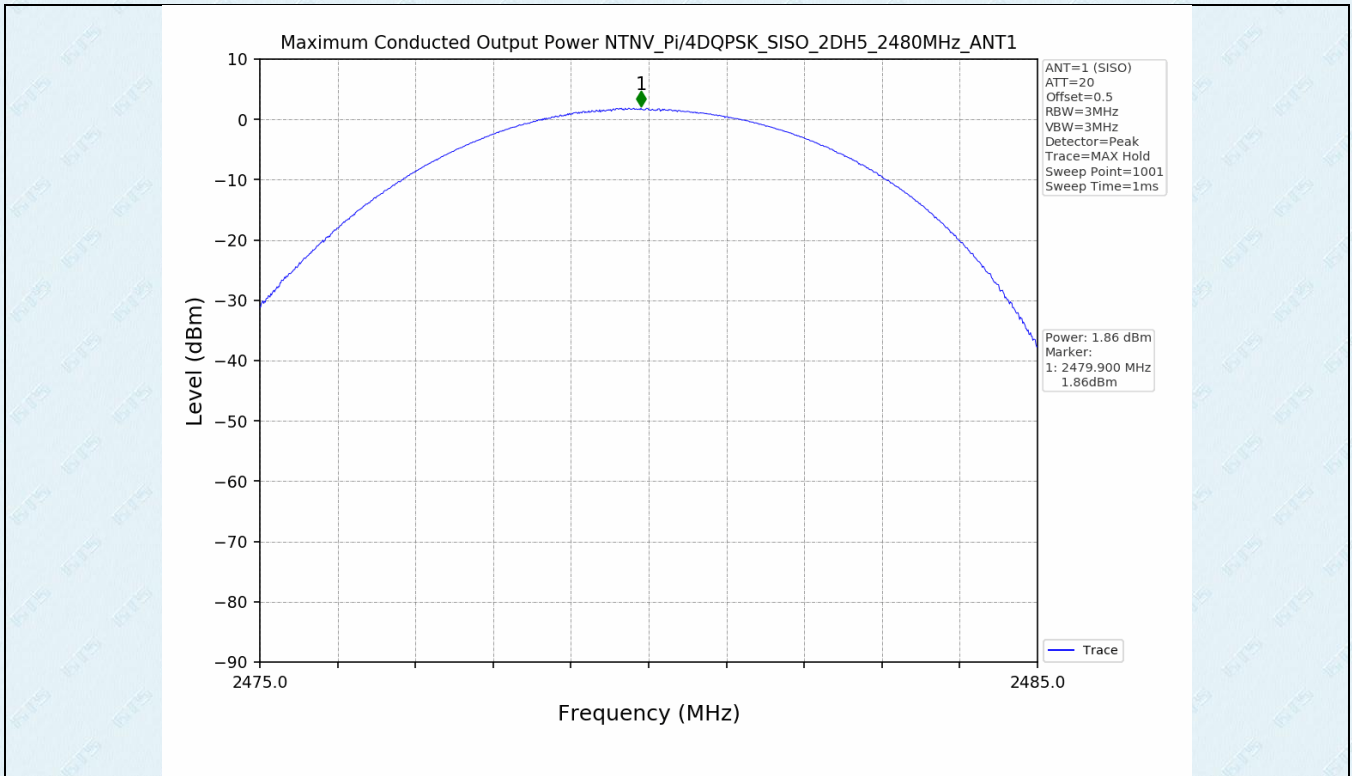
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	-1.42	30	PASS
	2441	SISO	1.91	30	PASS
	2480	SISO	3.88	30	PASS
$\pi/4$ -DQPSK	2402	SISO	-3.99	20.97	PASS
	2441	SISO	-0.36	20.97	PASS
	2480	SISO	1.86	20.97	PASS
8-DPSK	2402	SISO	-3.51	20.97	PASS
	2441	SISO	0.08	20.97	PASS
	2480	SISO	2.30	20.97	PASS

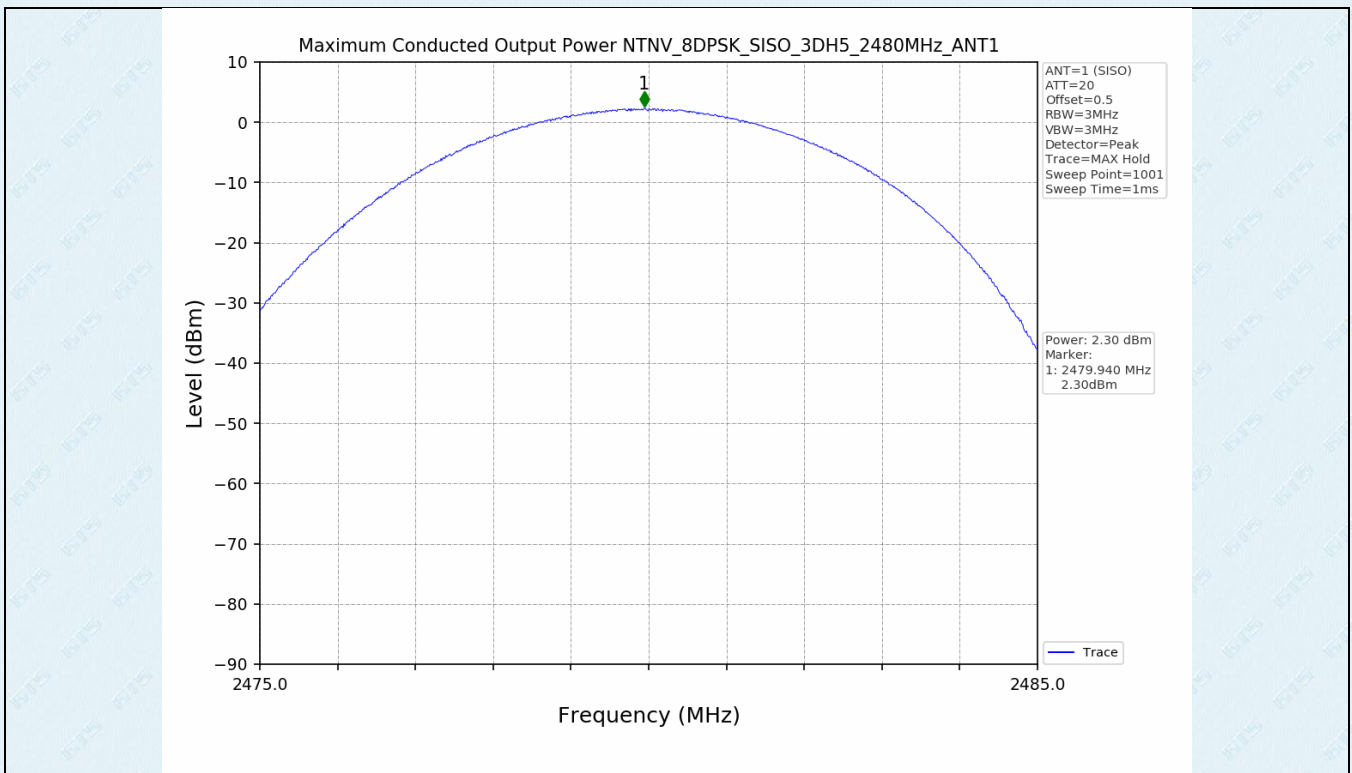
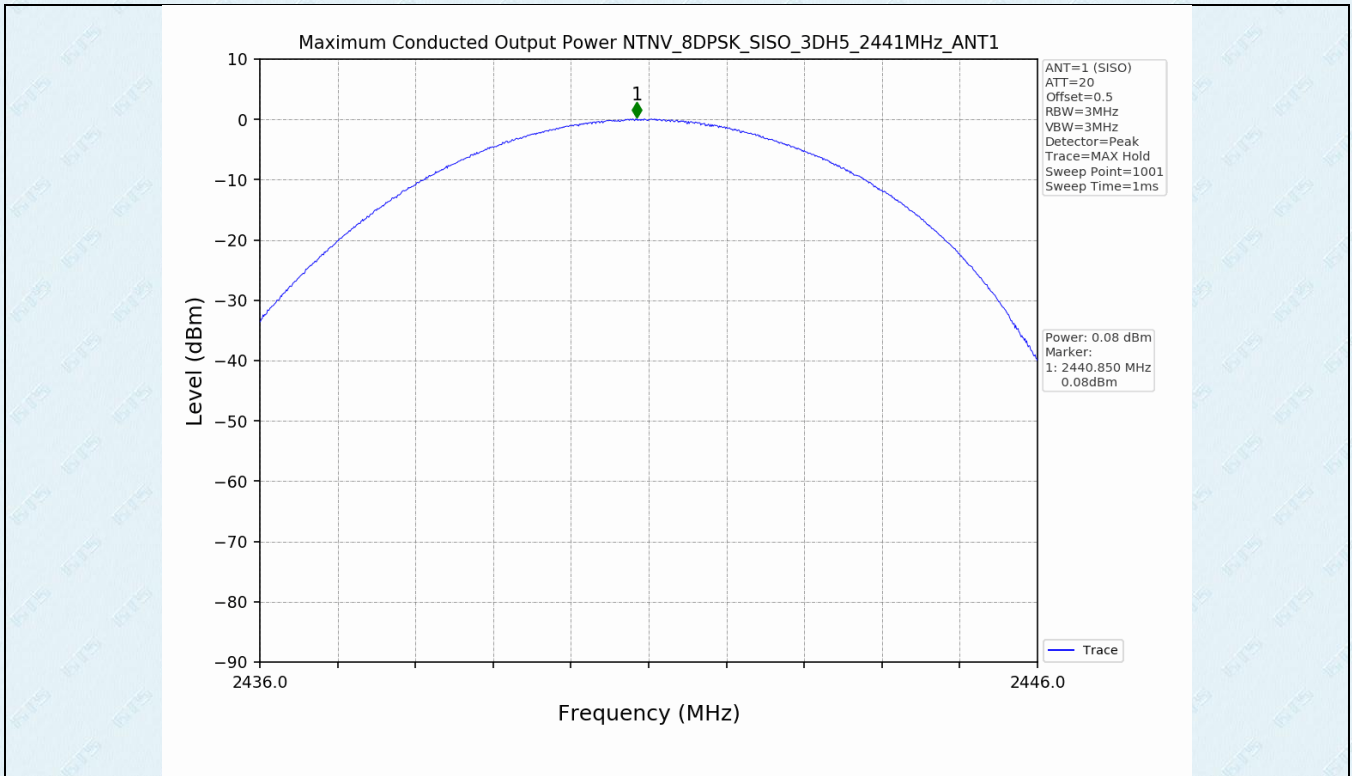
### 2.2 Test Graph









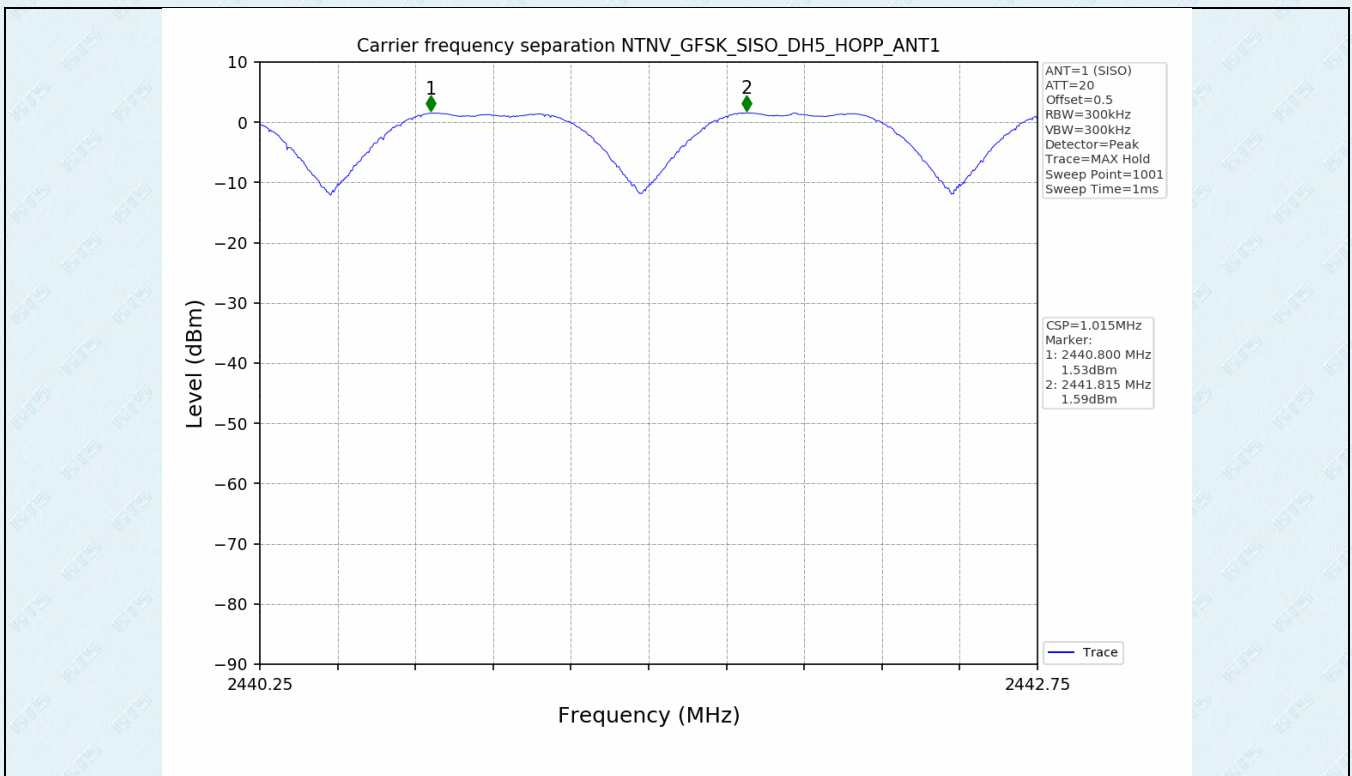


### 3. Carrier frequency separation

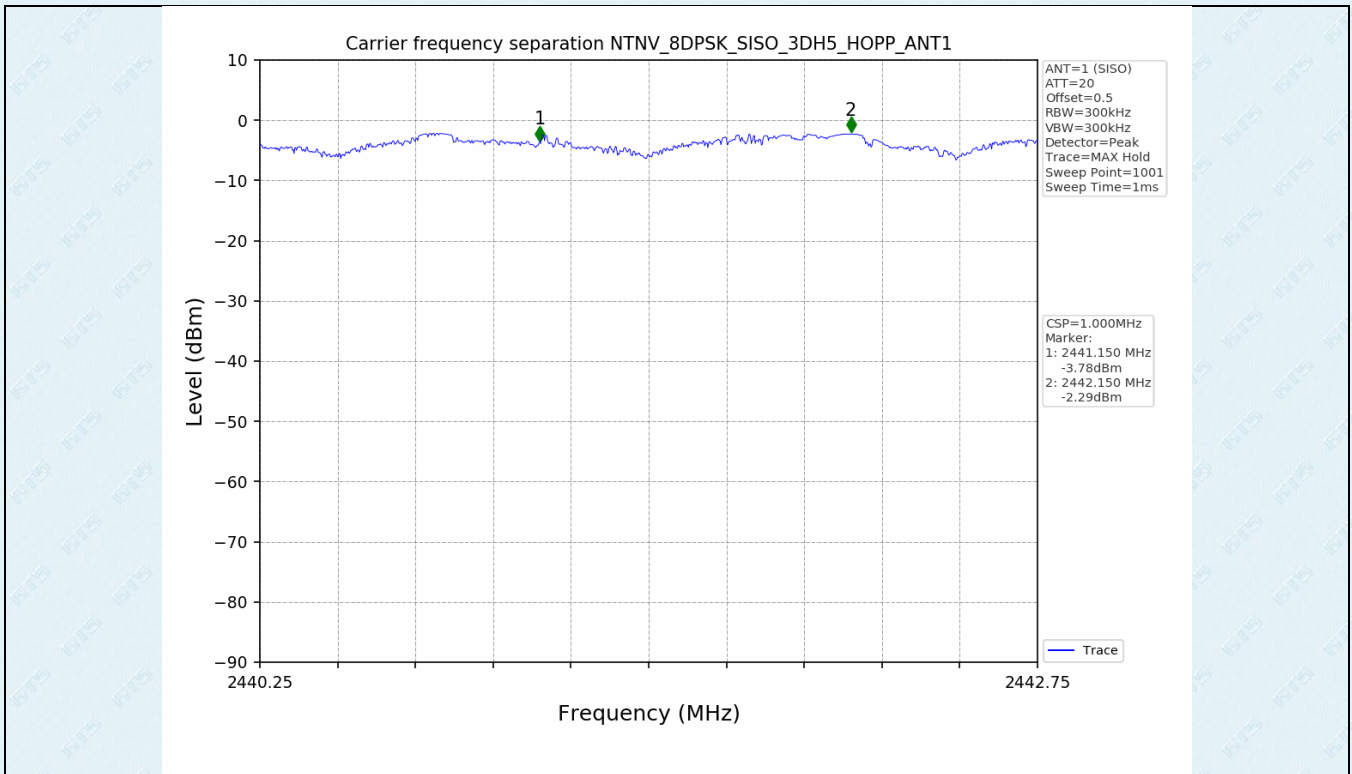
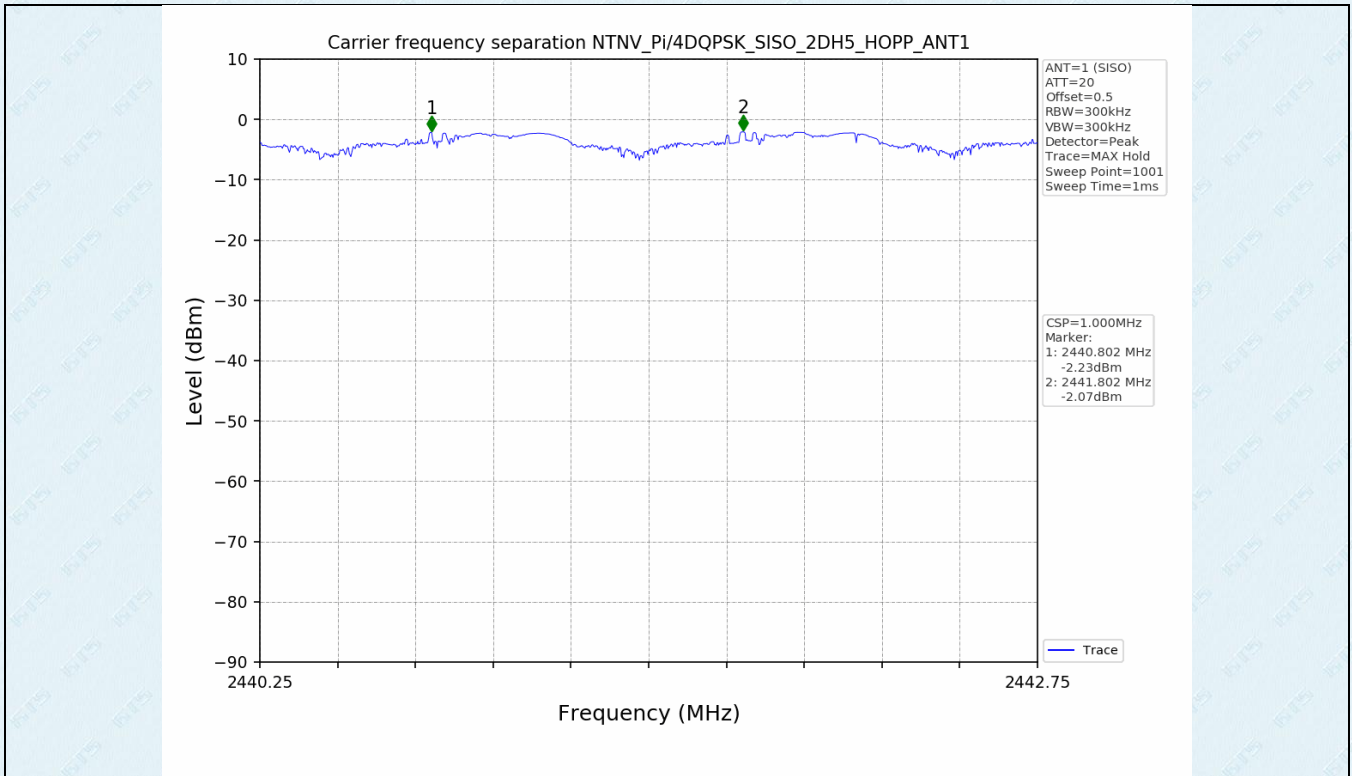
#### 3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.015	0.961	≥0.961	PASS
$\pi/4$ -DQPSK	SISO	1	1.000	1.275	≥0.850	PASS
8-DPSK	SISO	1	1.000	1.281	≥0.854	PASS

#### 3.2 Test Graph





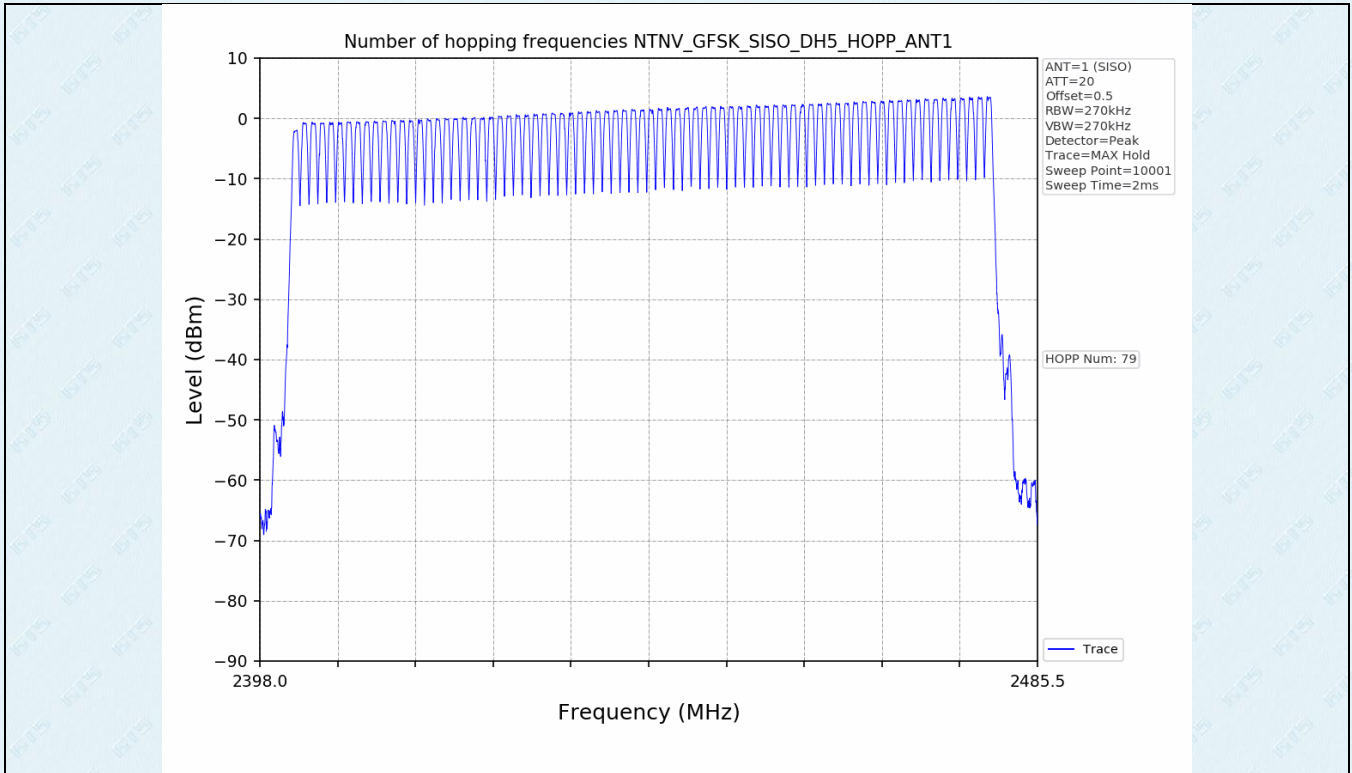


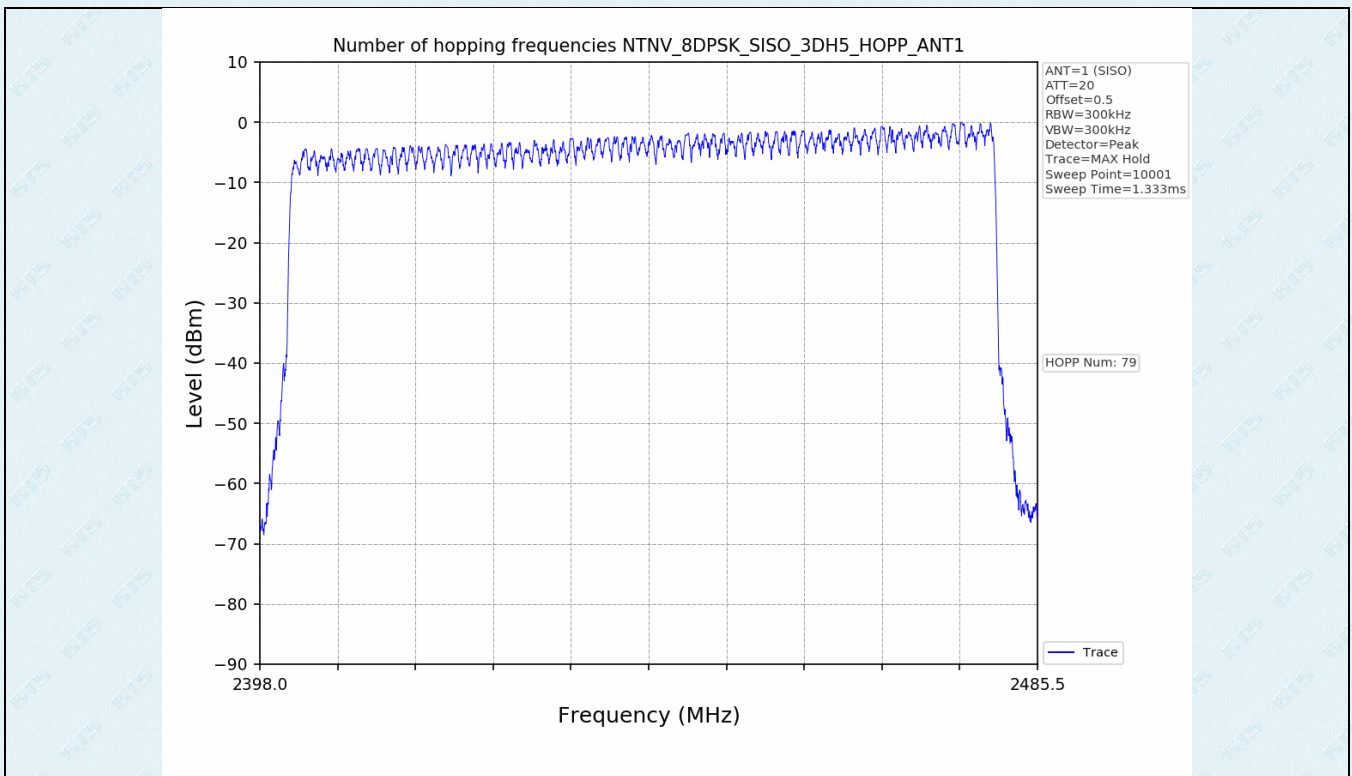
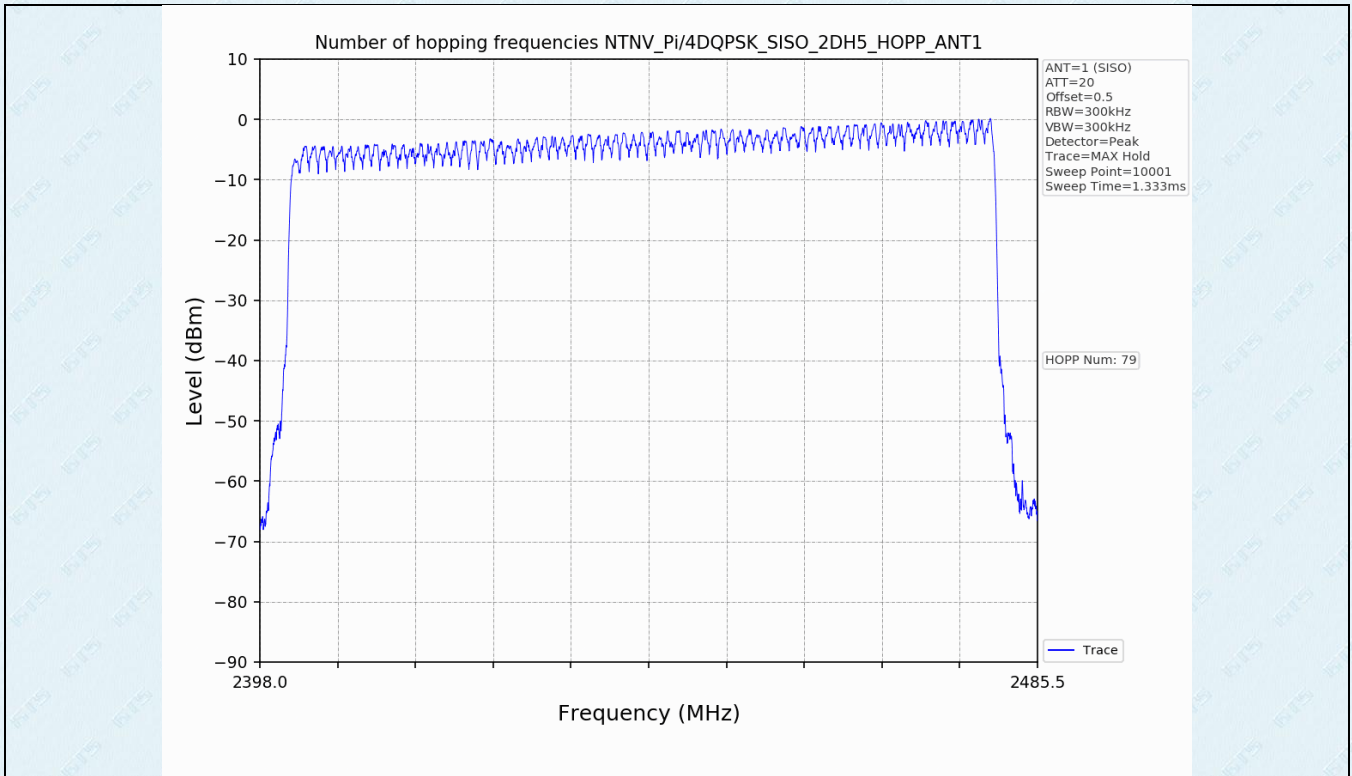
## 4. Number of hopping frequencies

### 4.1 Test Result

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

### 4.2 Test Graph



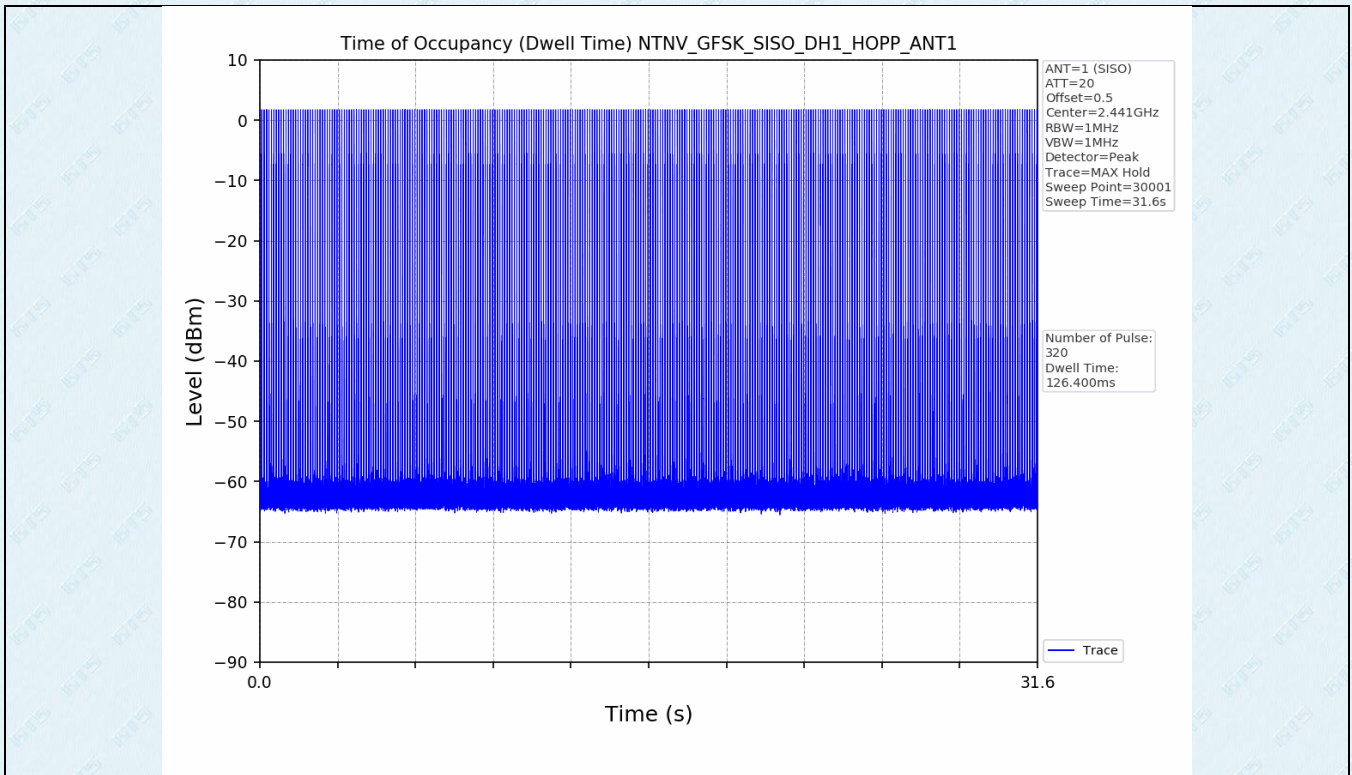
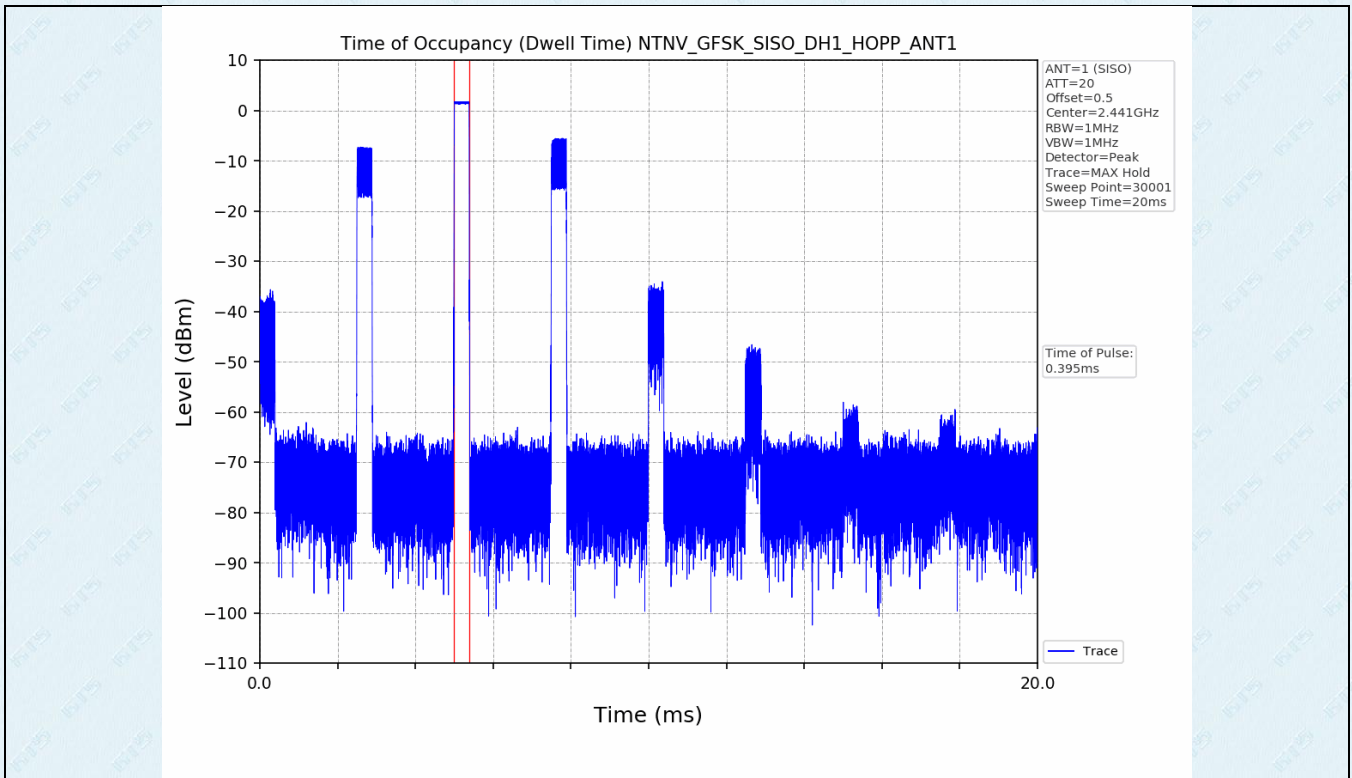


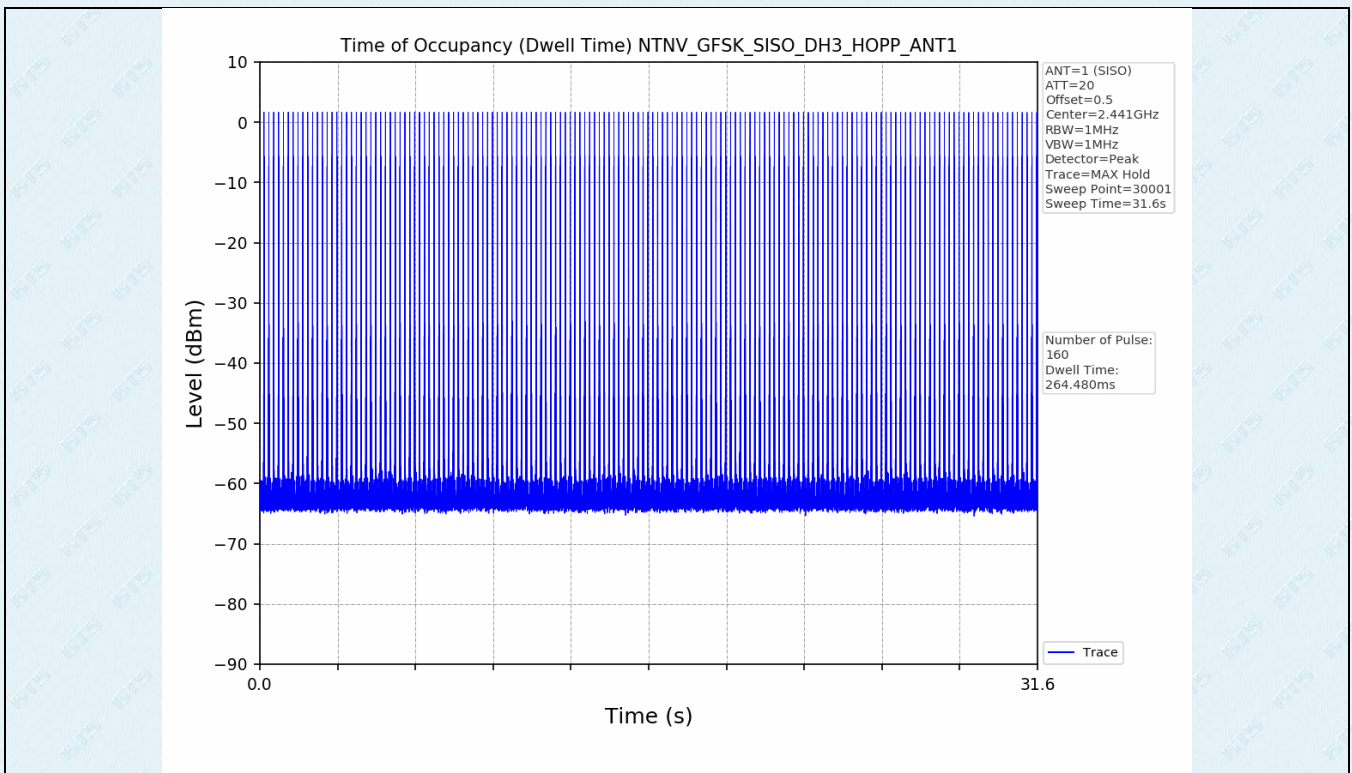
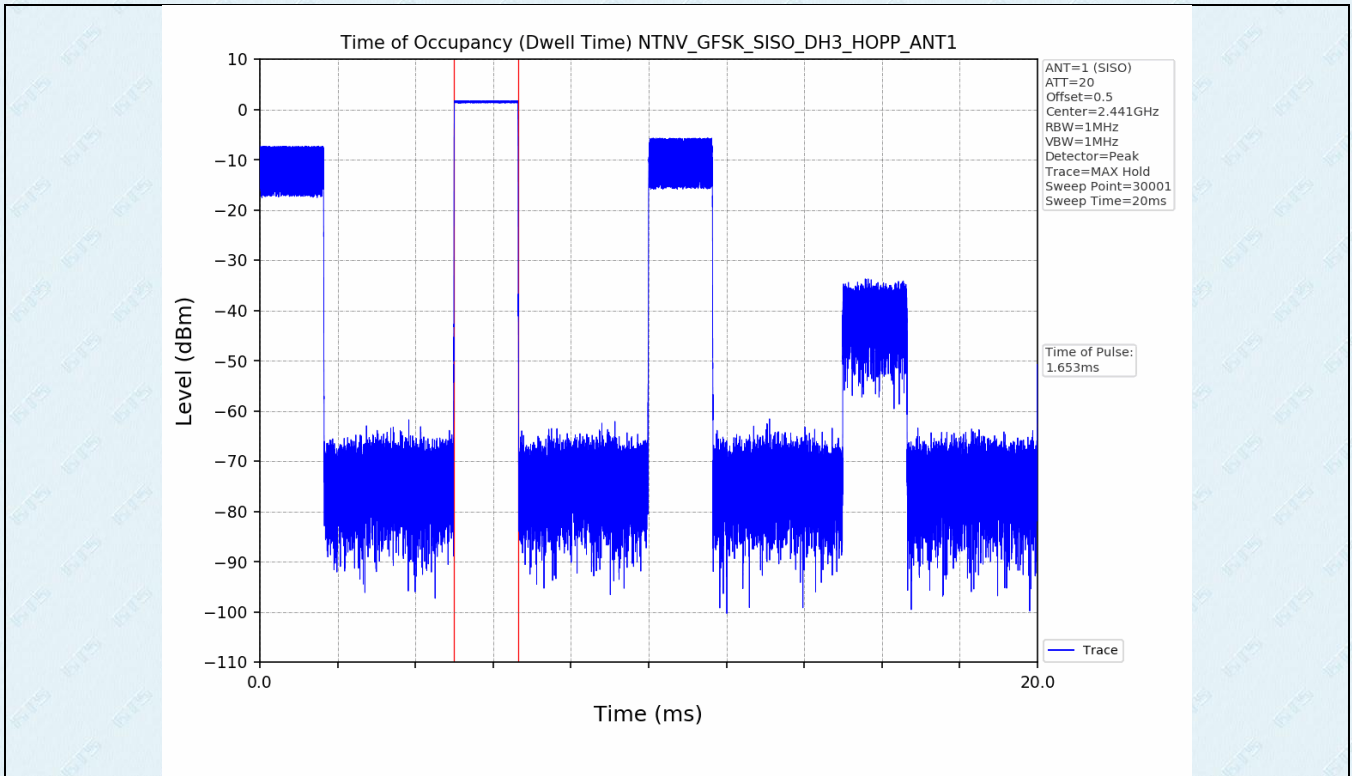
## 5. Time of Occupancy (Dwell Time)

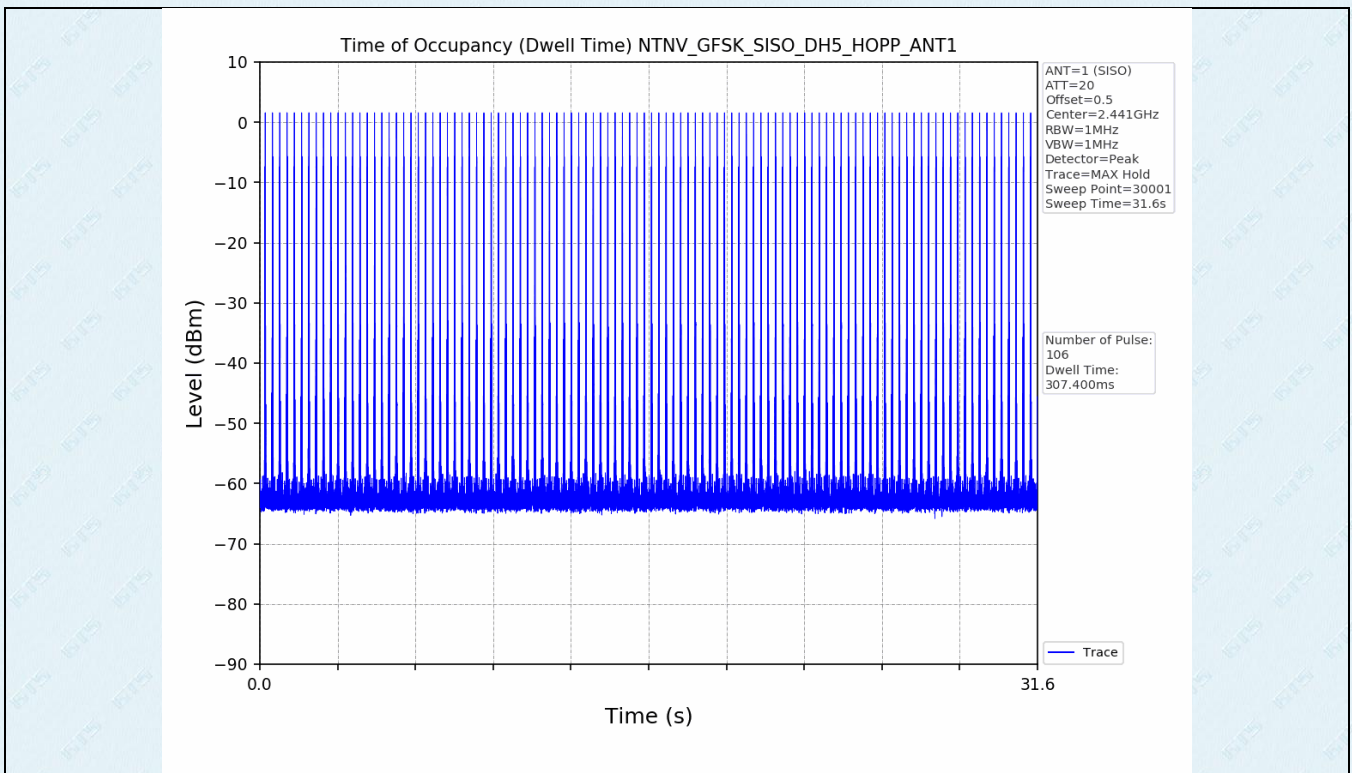
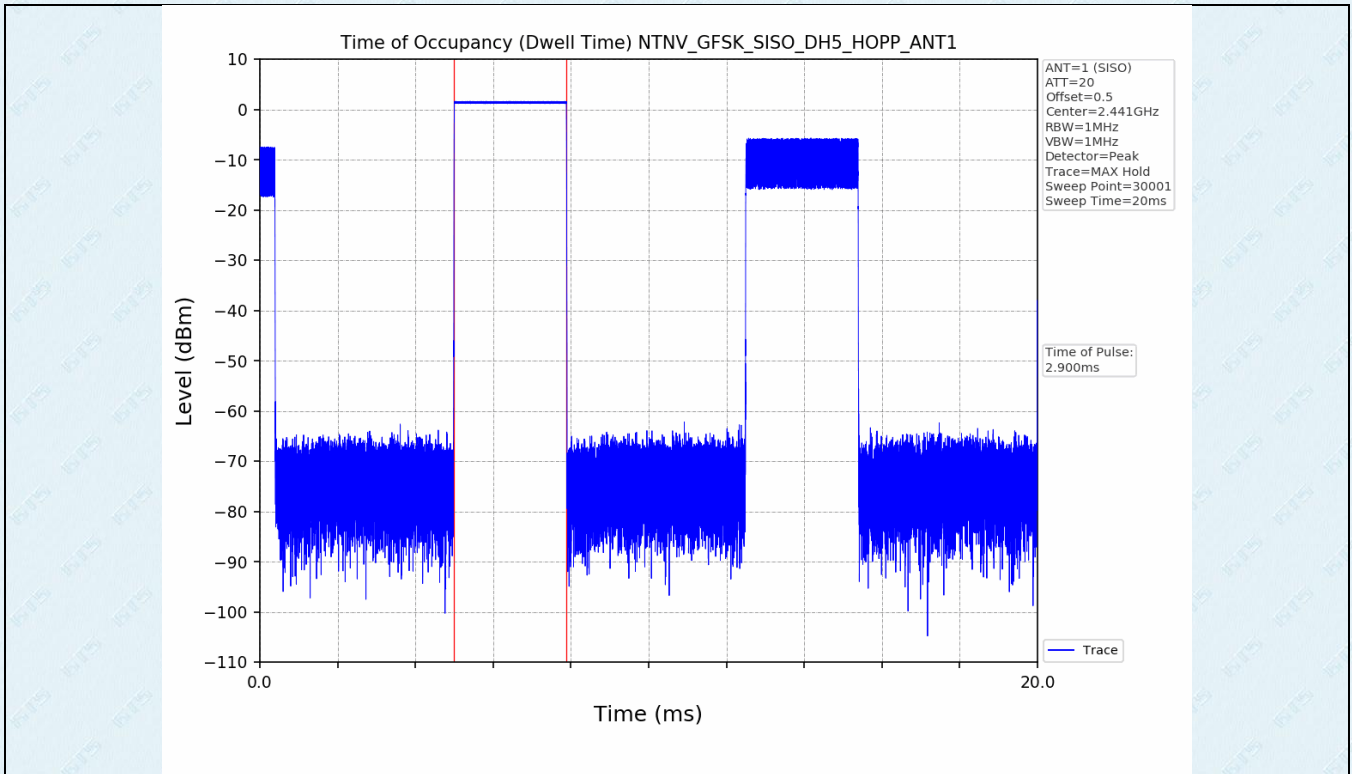
### 5.1 Test Result

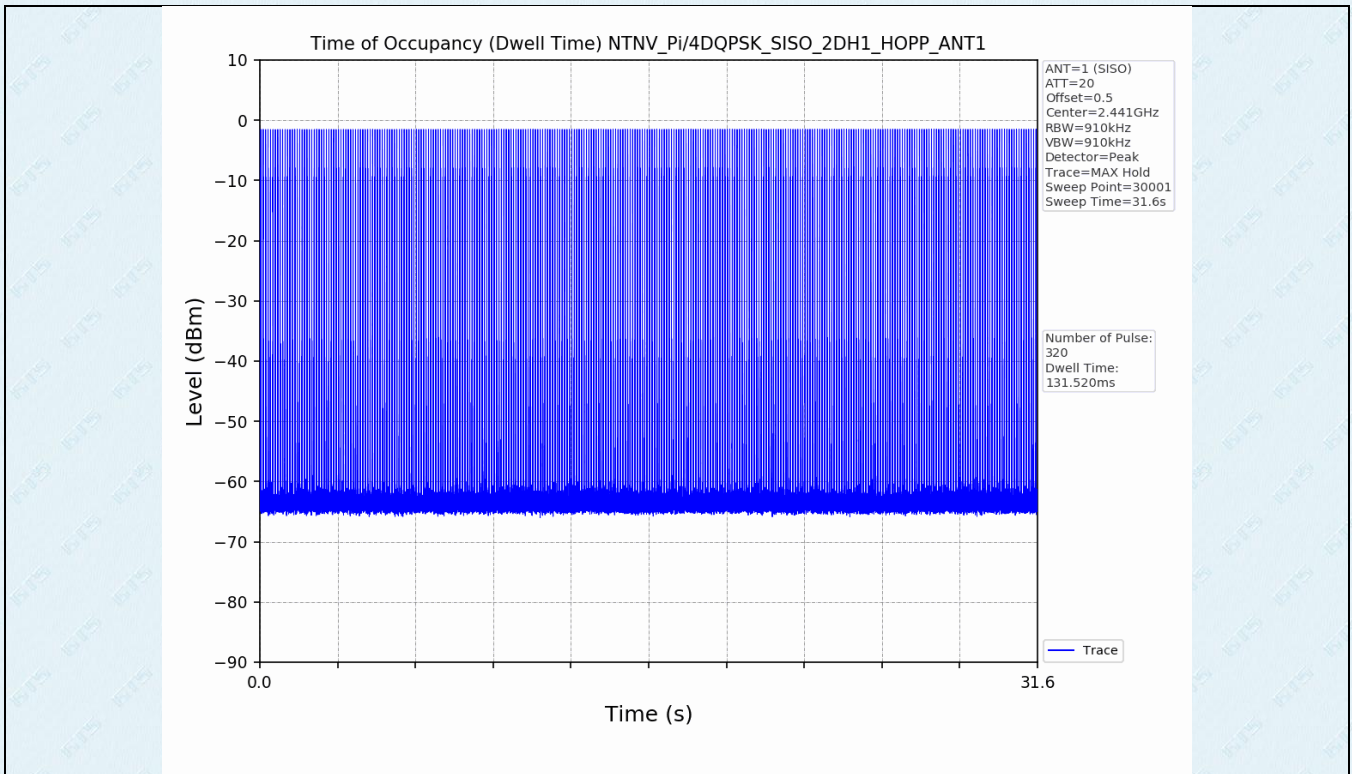
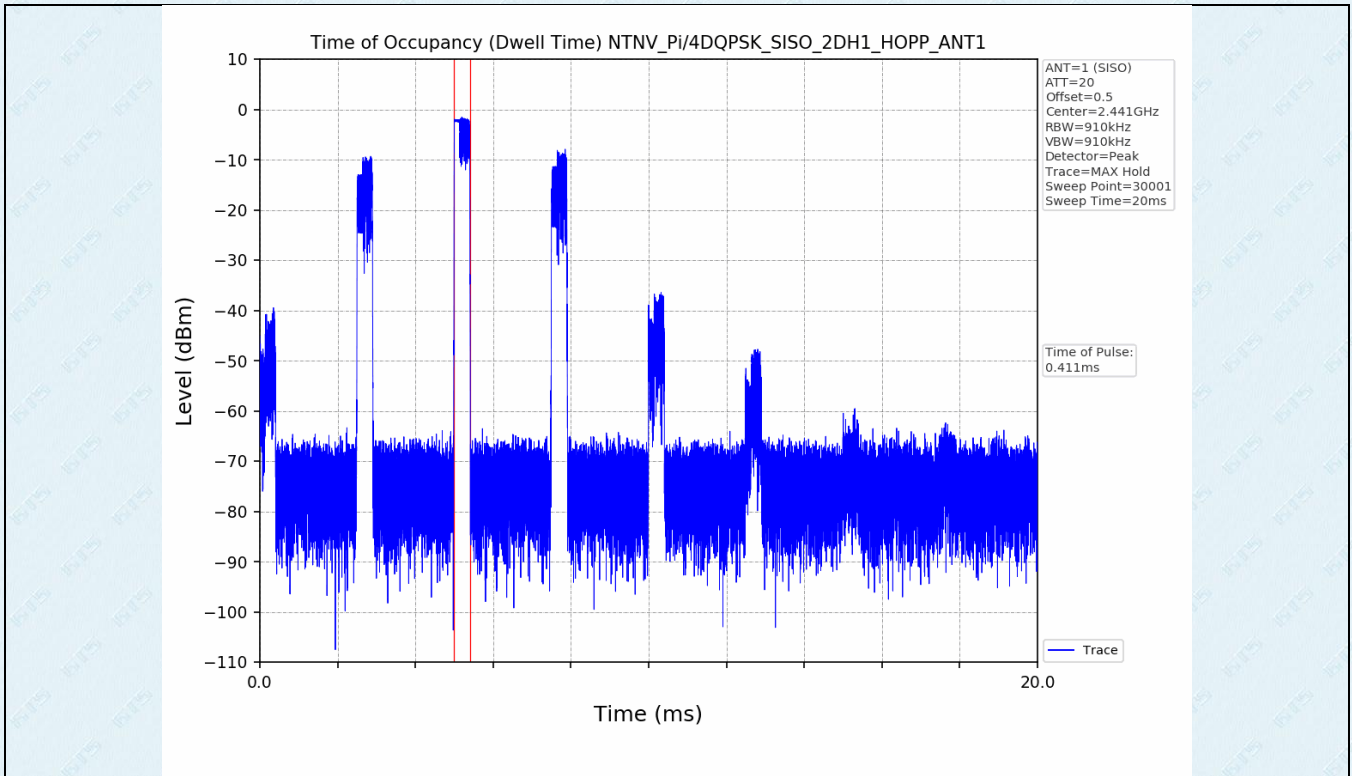
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.395	31.6	320	126.400	≤400	PASS
	DH3	SISO	1	1.653	31.6	160	264.480	≤400	PASS
	DH5	SISO	1	2.900	31.6	106	307.400	≤400	PASS
$\pi/4$ -DQPSK	2DH1	SISO	1	0.411	31.6	320	131.520	≤400	PASS
	2DH3	SISO	1	1.663	31.6	160	266.080	≤400	PASS
	2DH5	SISO	1	2.927	31.6	107	313.189	≤400	PASS
8-DPSK	3DH1	SISO	1	0.411	31.6	320	131.520	≤400	PASS
	3DH3	SISO	1	1.662	31.6	160	265.920	≤400	PASS
	3DH5	SISO	1	2.916	31.6	107	312.012	≤400	PASS

## 5.2 Test Graph

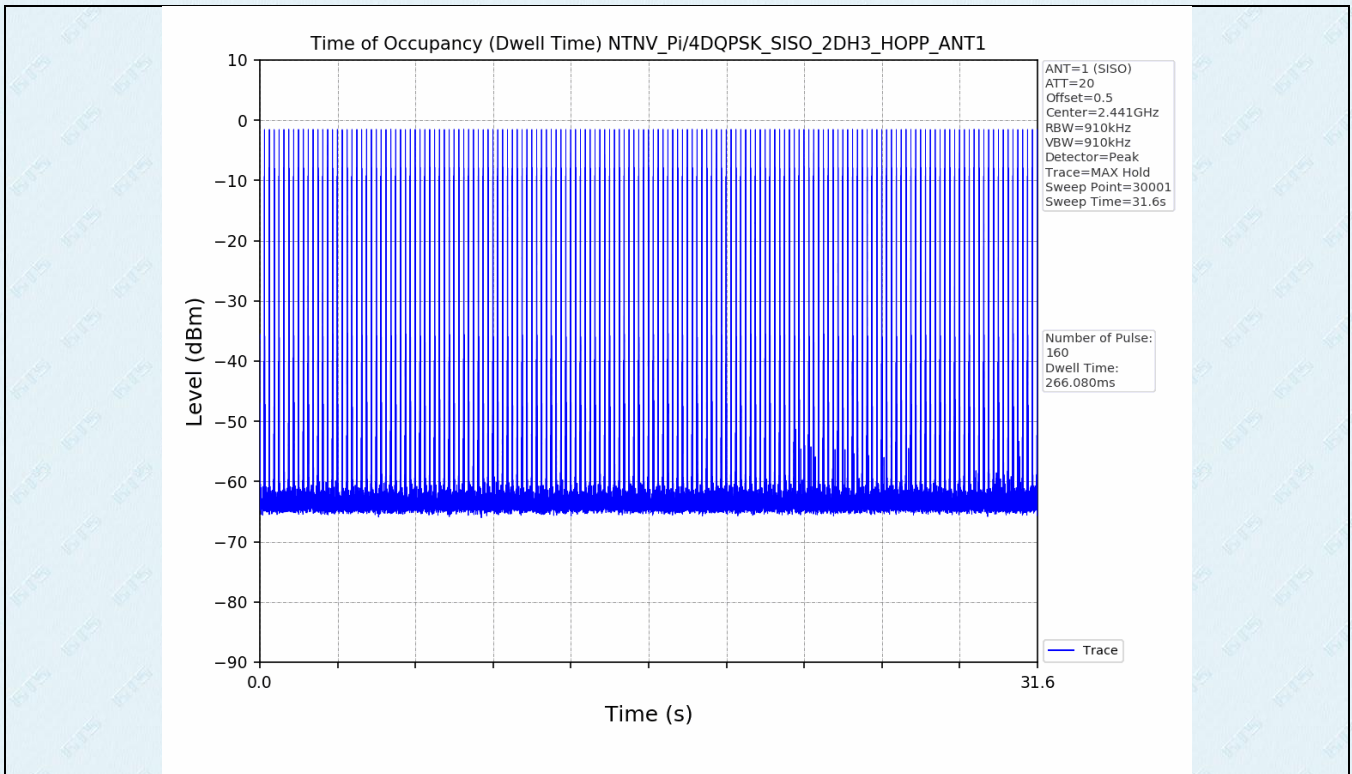
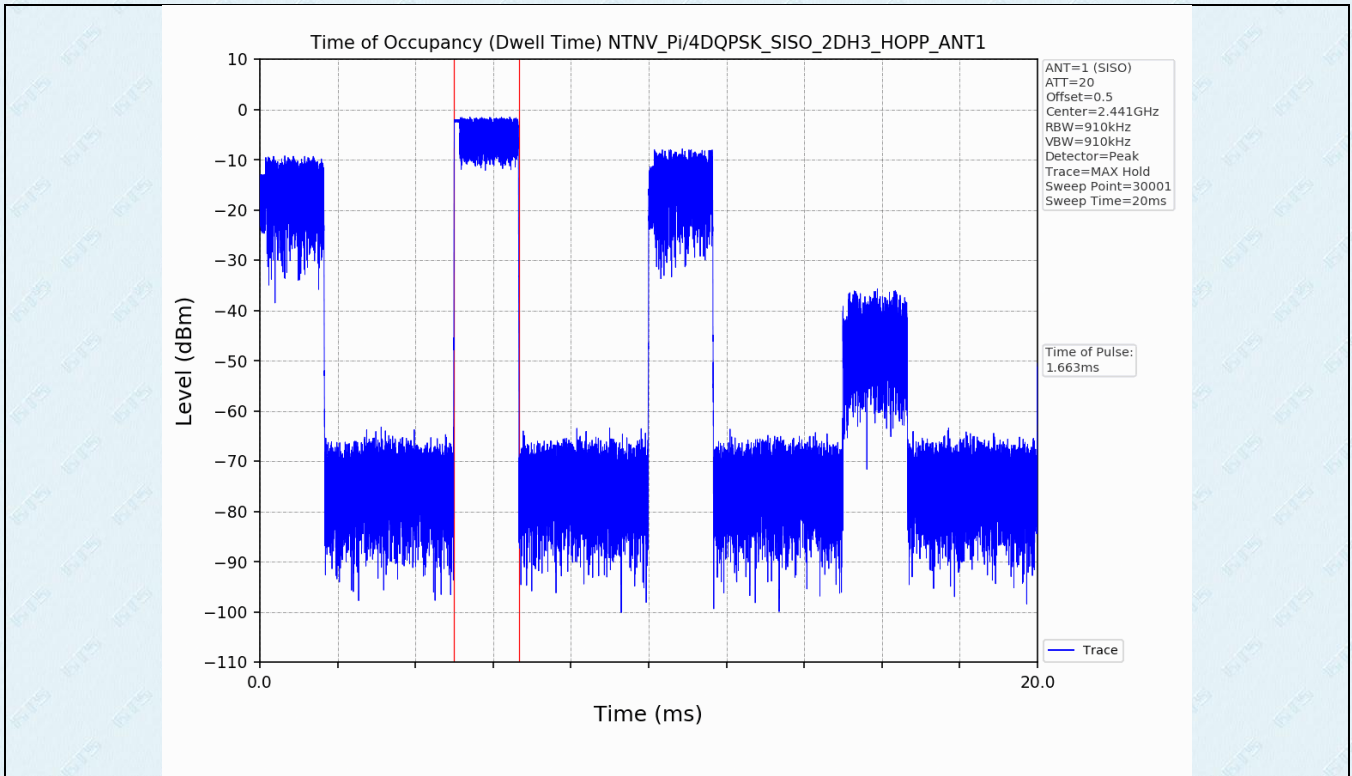


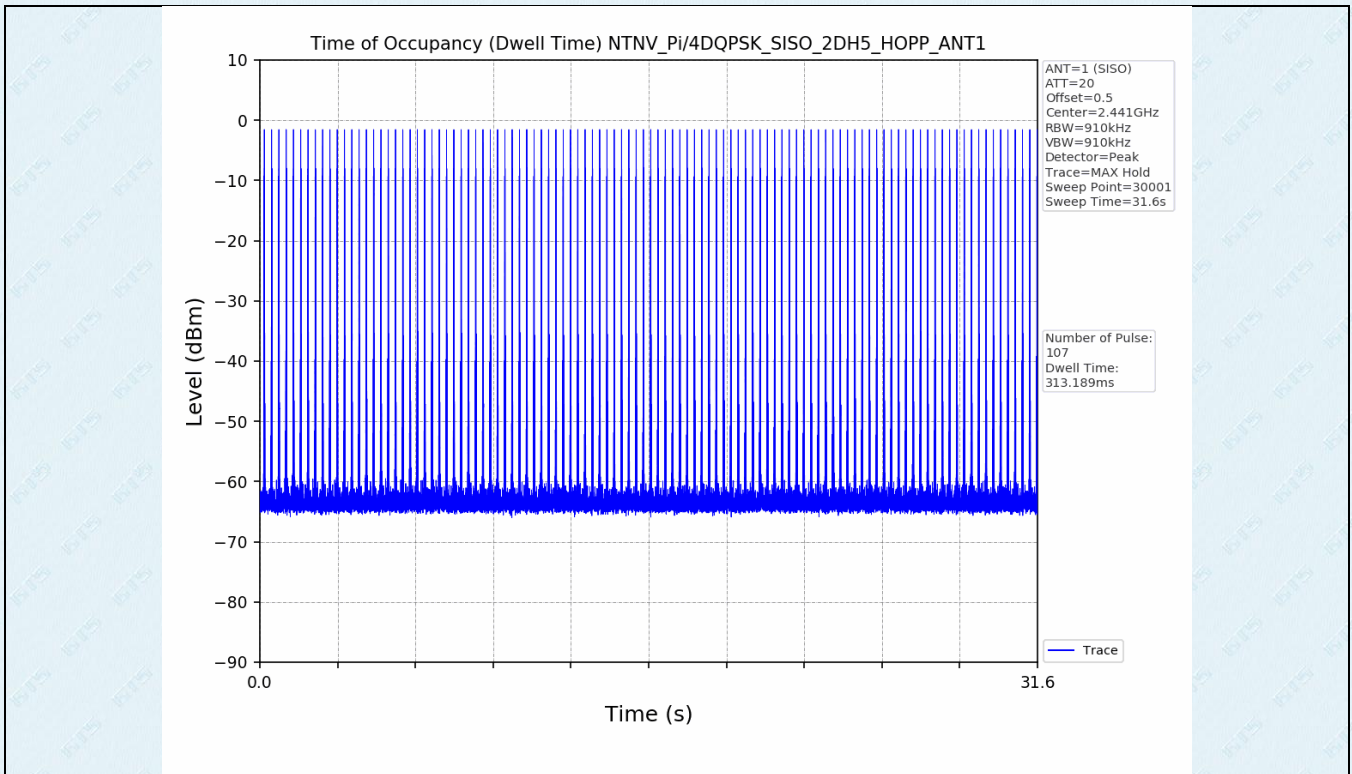
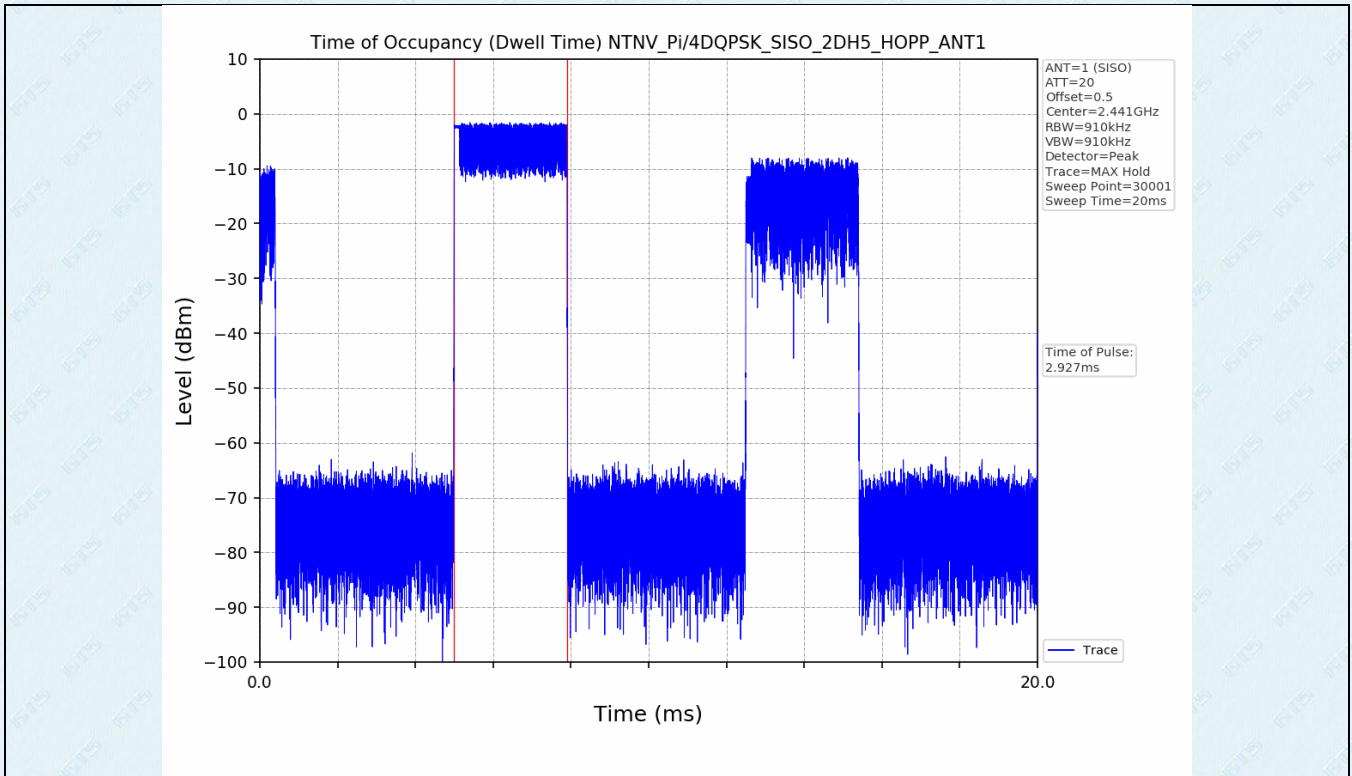


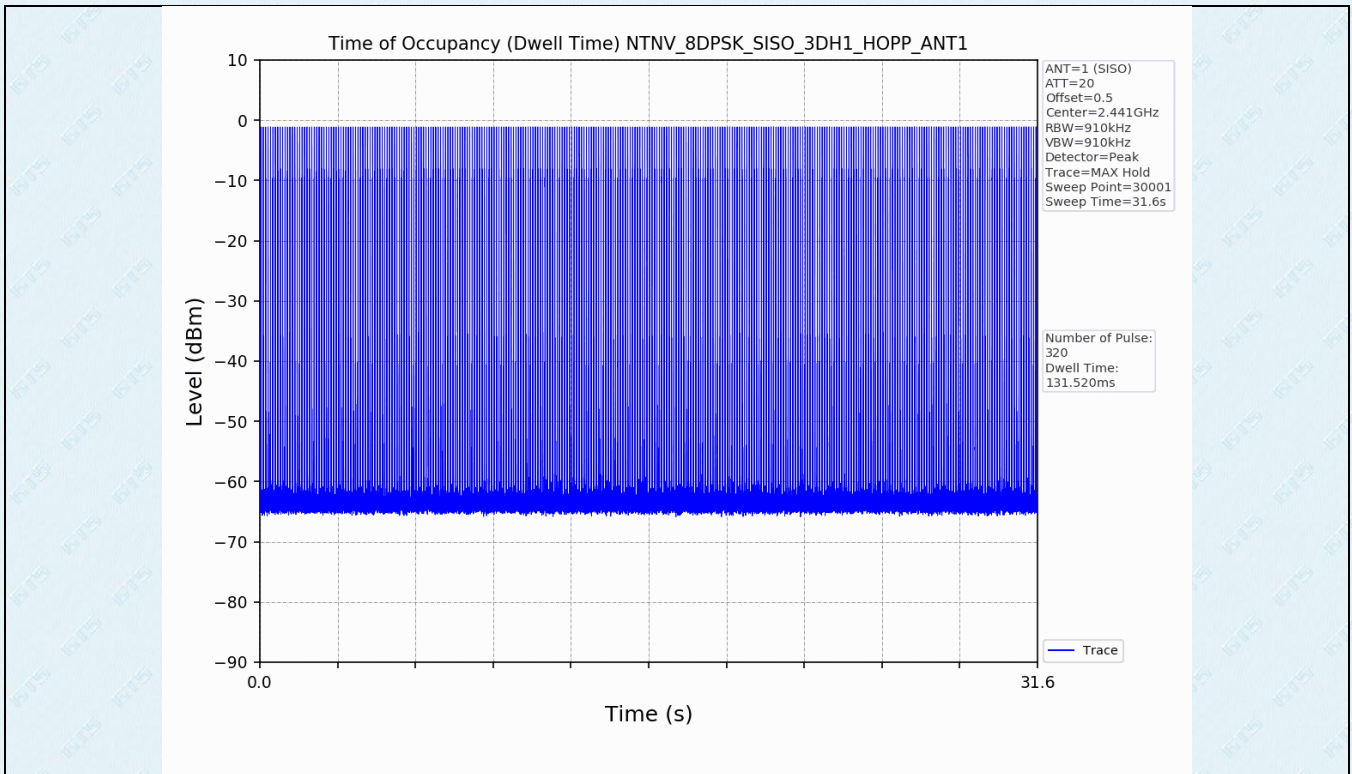
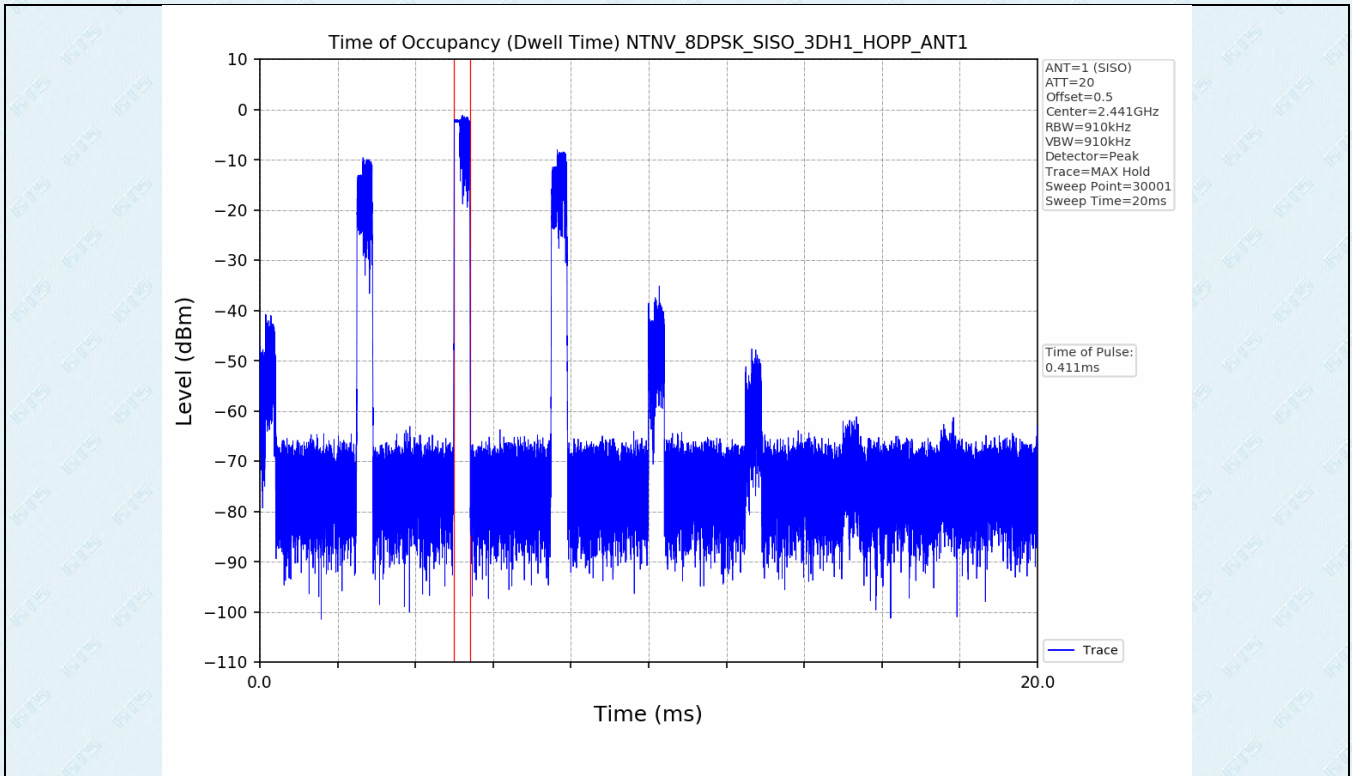


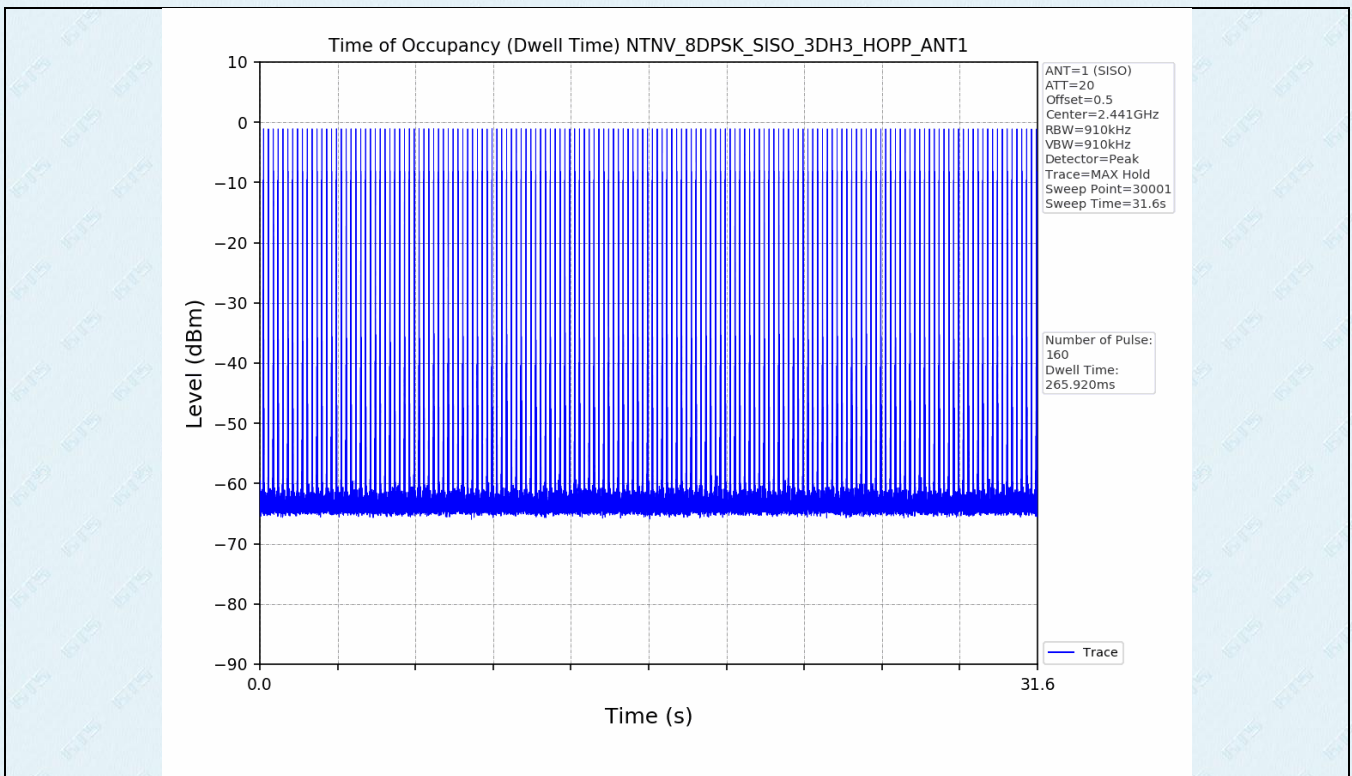
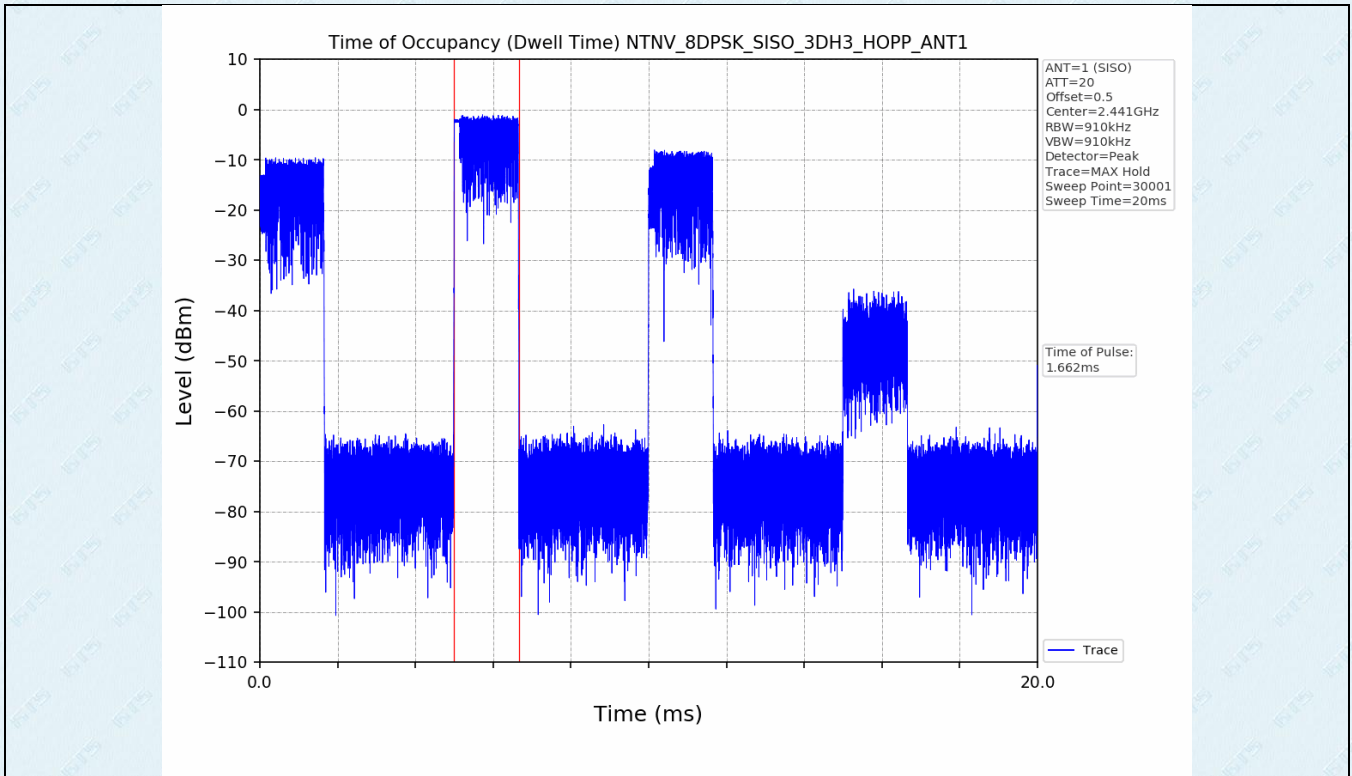


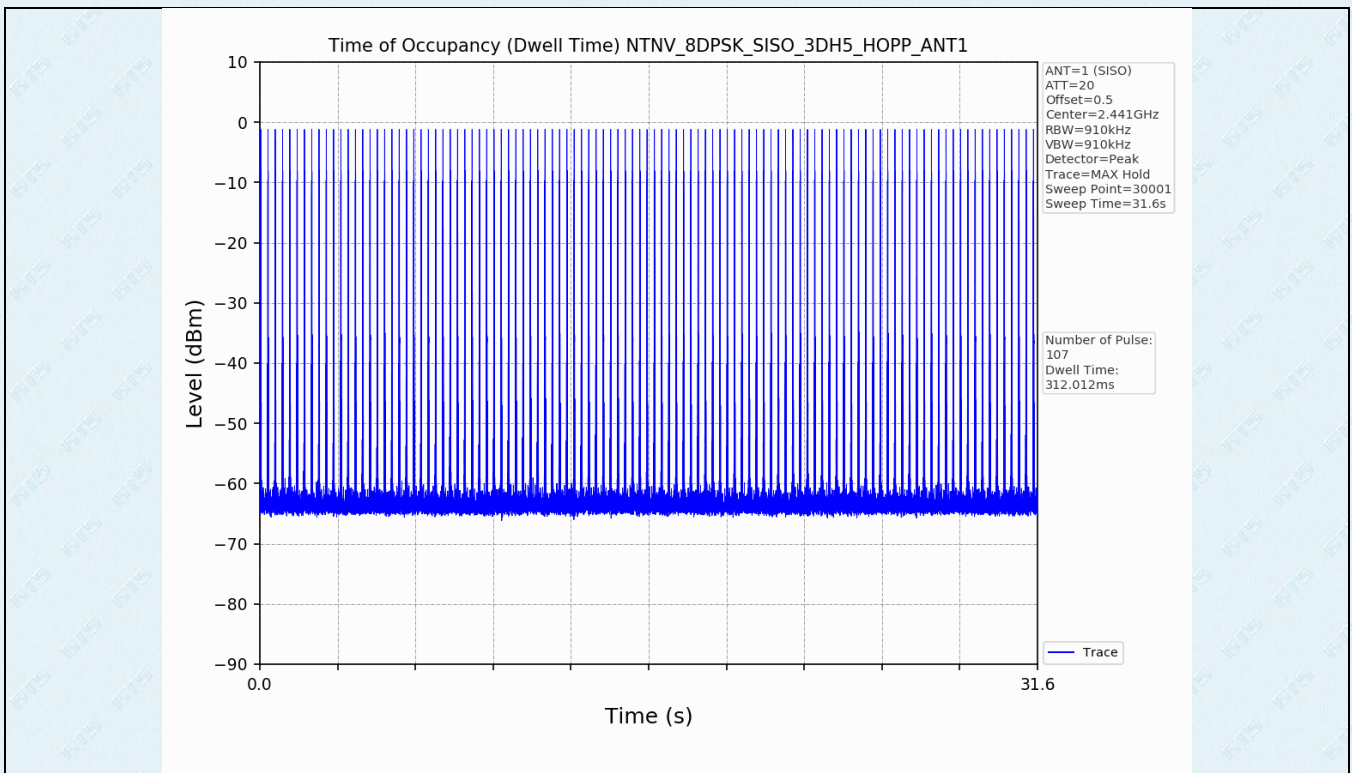
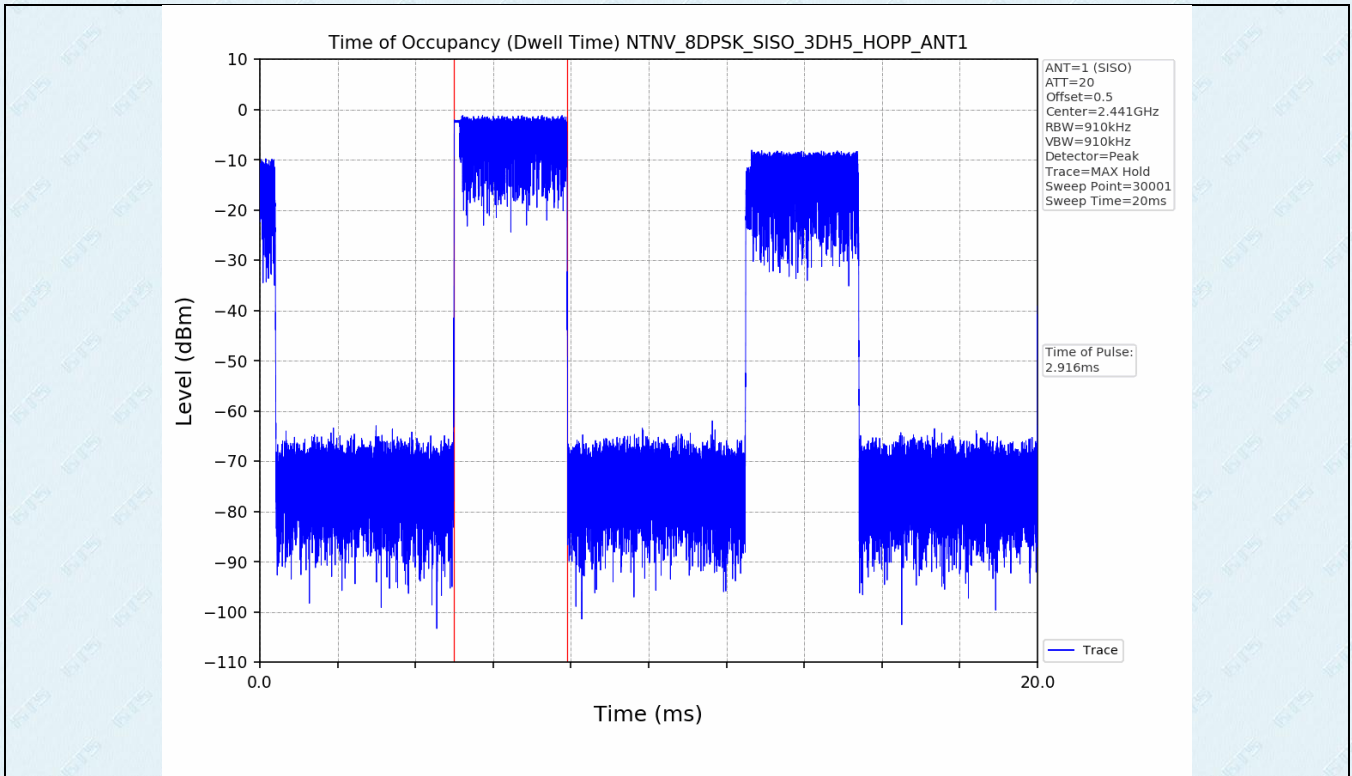










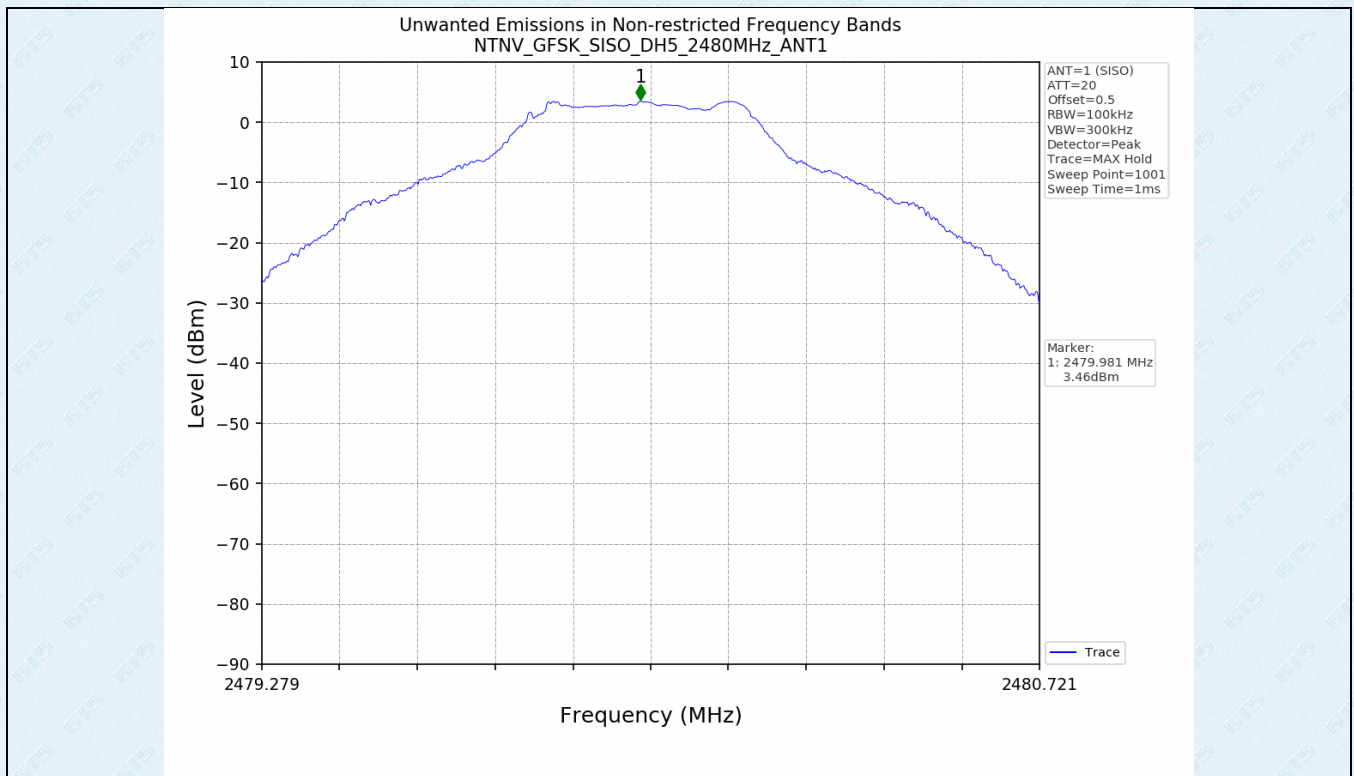


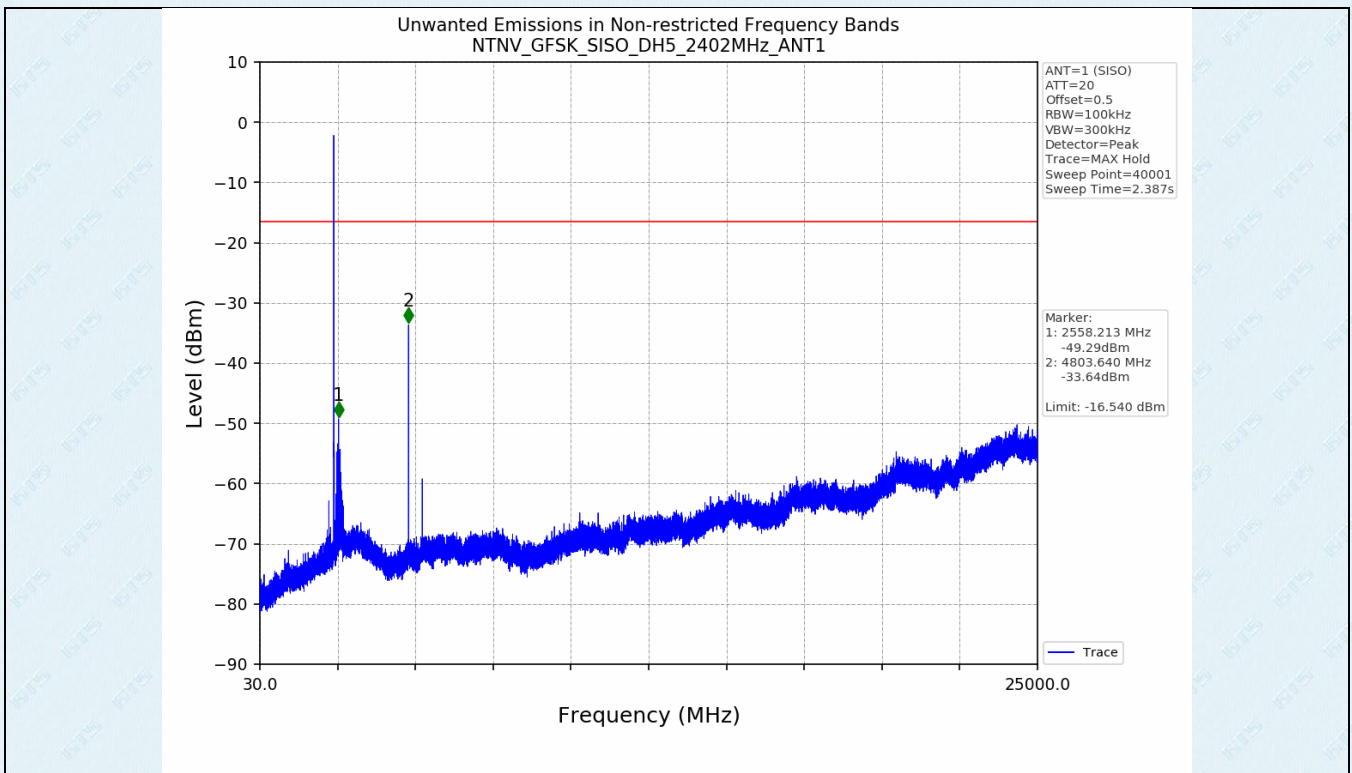
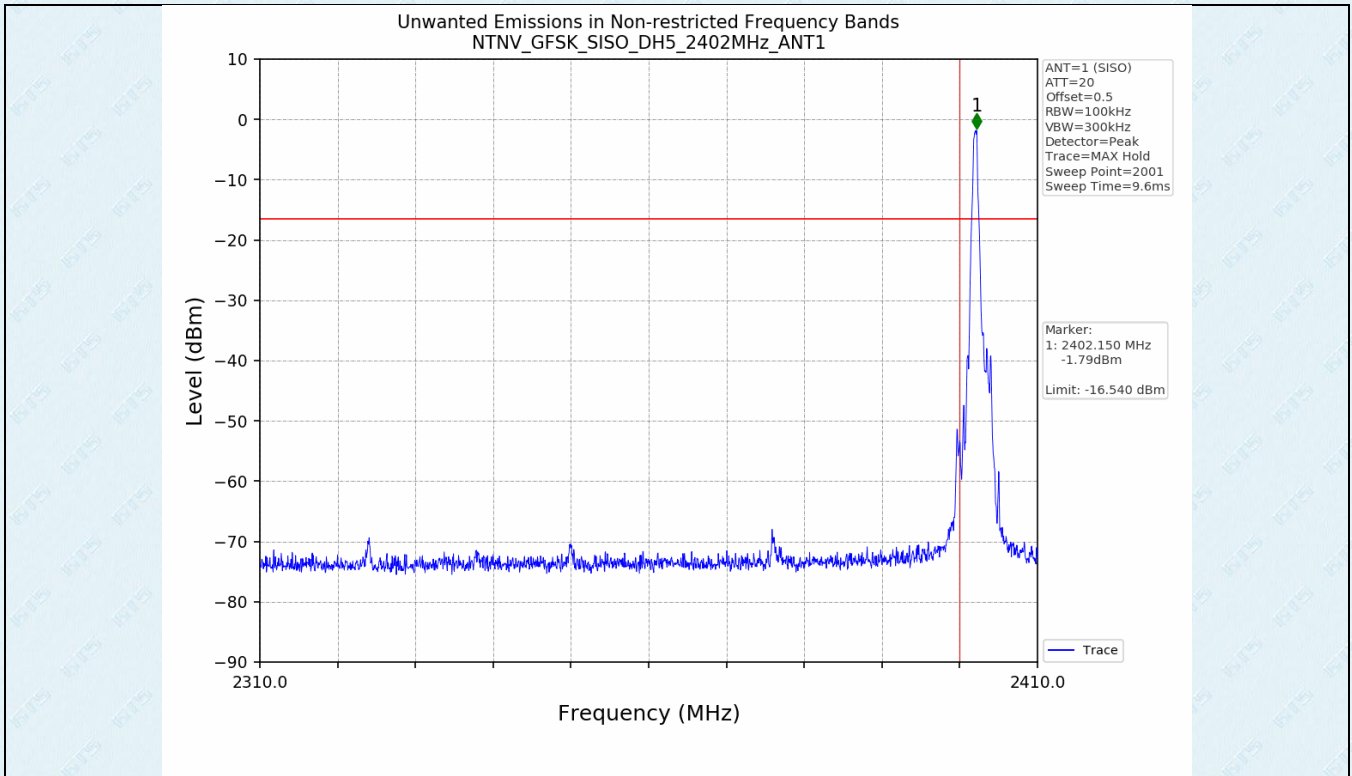
## 6. Unwanted Emissions in Non-restricted Frequency Bands

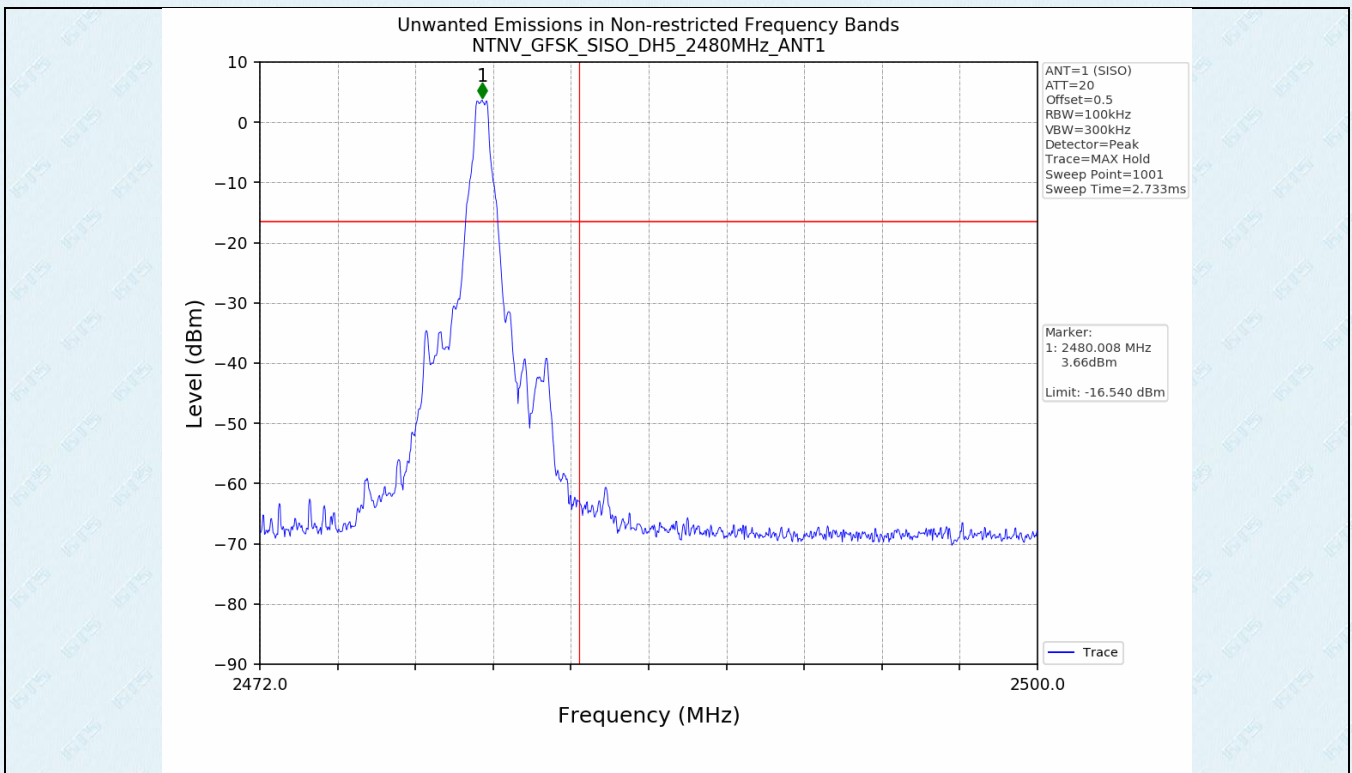
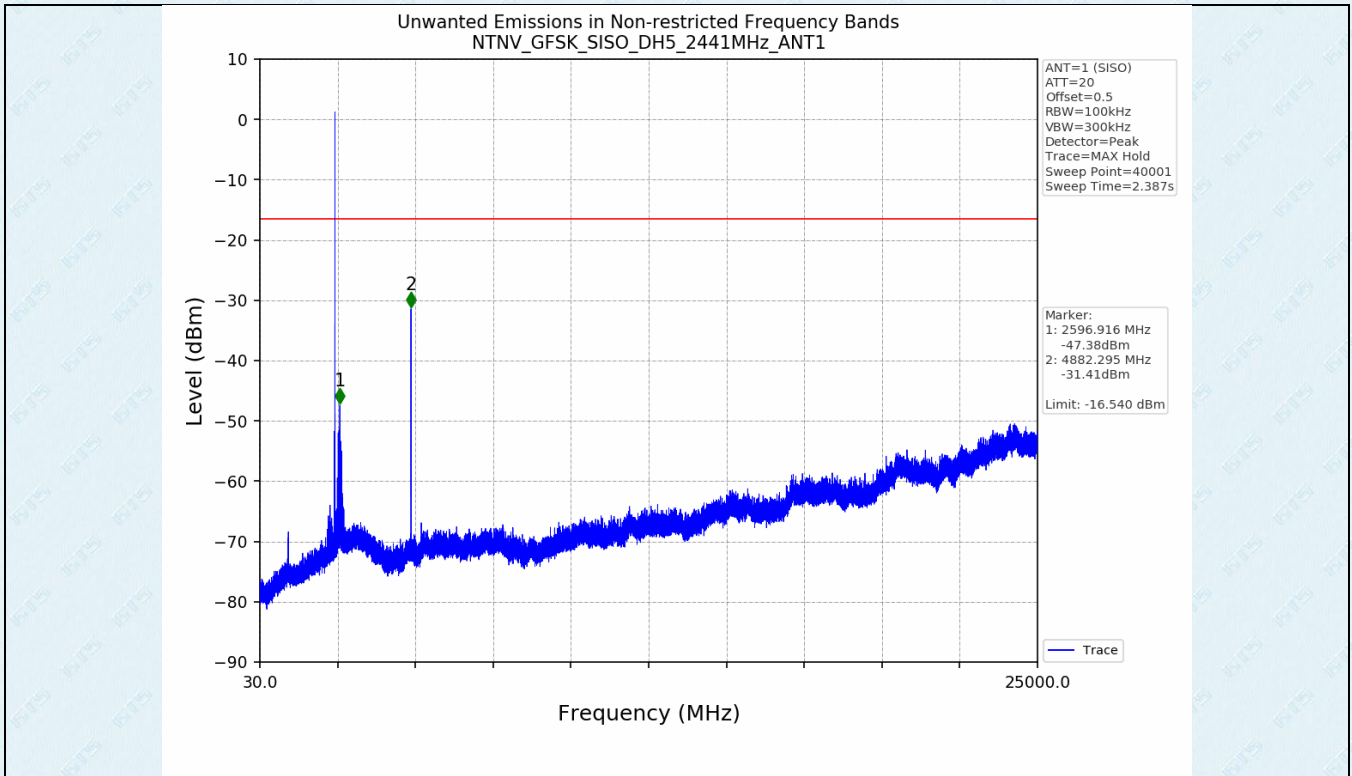
### 6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-16.54	PASS
	2441	SISO	1	Refer to test graph	-16.54	PASS
	2480	SISO	1	Refer to test graph	-16.54	PASS
	Hopping	SISO	1	Refer to test graph	-16.54	PASS
$\pi/4$ -DQPSK	2402	SISO	1	Refer to test graph	-19.99	PASS
	2441	SISO	1	Refer to test graph	-19.99	PASS
	2480	SISO	1	Refer to test graph	-19.99	PASS
	Hopping	SISO	1	Refer to test graph	-19.99	PASS
8-DPSK	2402	SISO	1	Refer to test graph	-19.92	PASS
	2441	SISO	1	Refer to test graph	-19.92	PASS
	2480	SISO	1	Refer to test graph	-19.92	PASS
	Hopping	SISO	1	Refer to test graph	-19.92	PASS

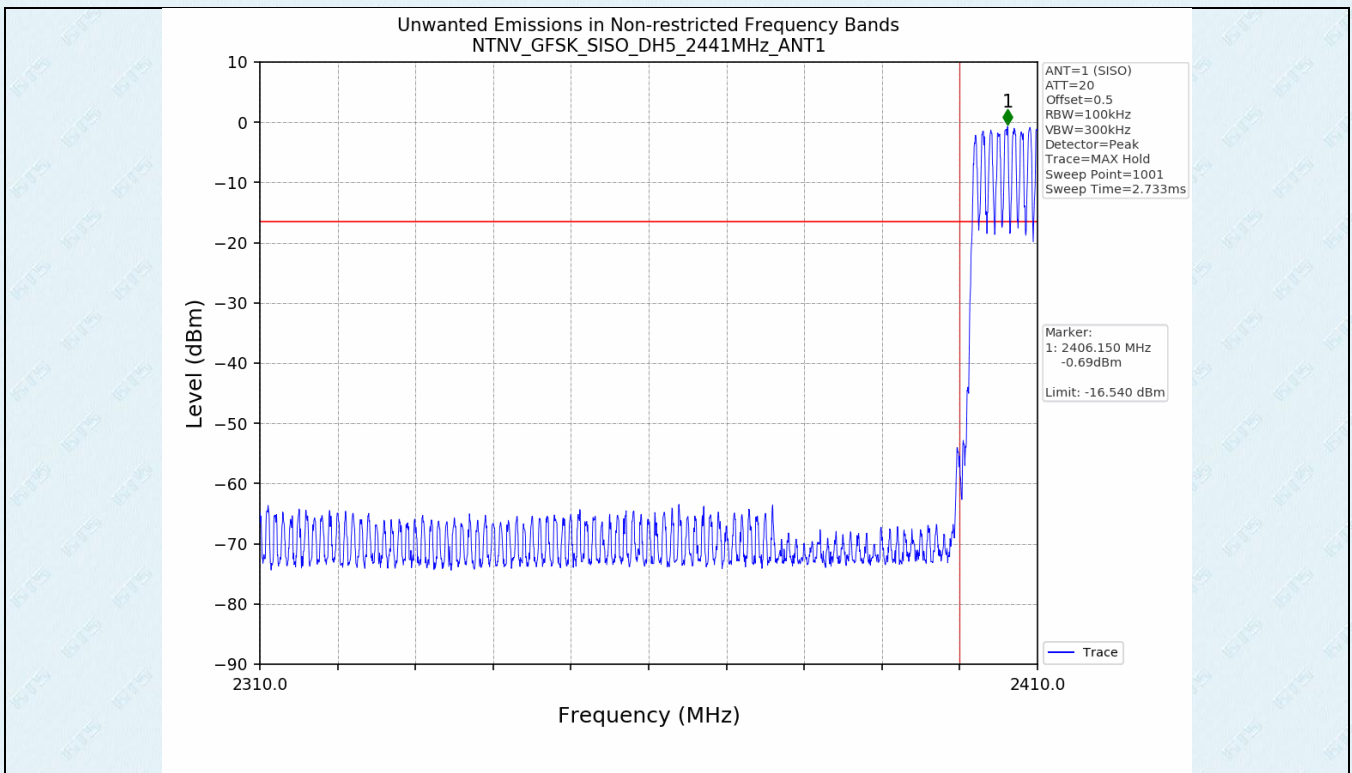
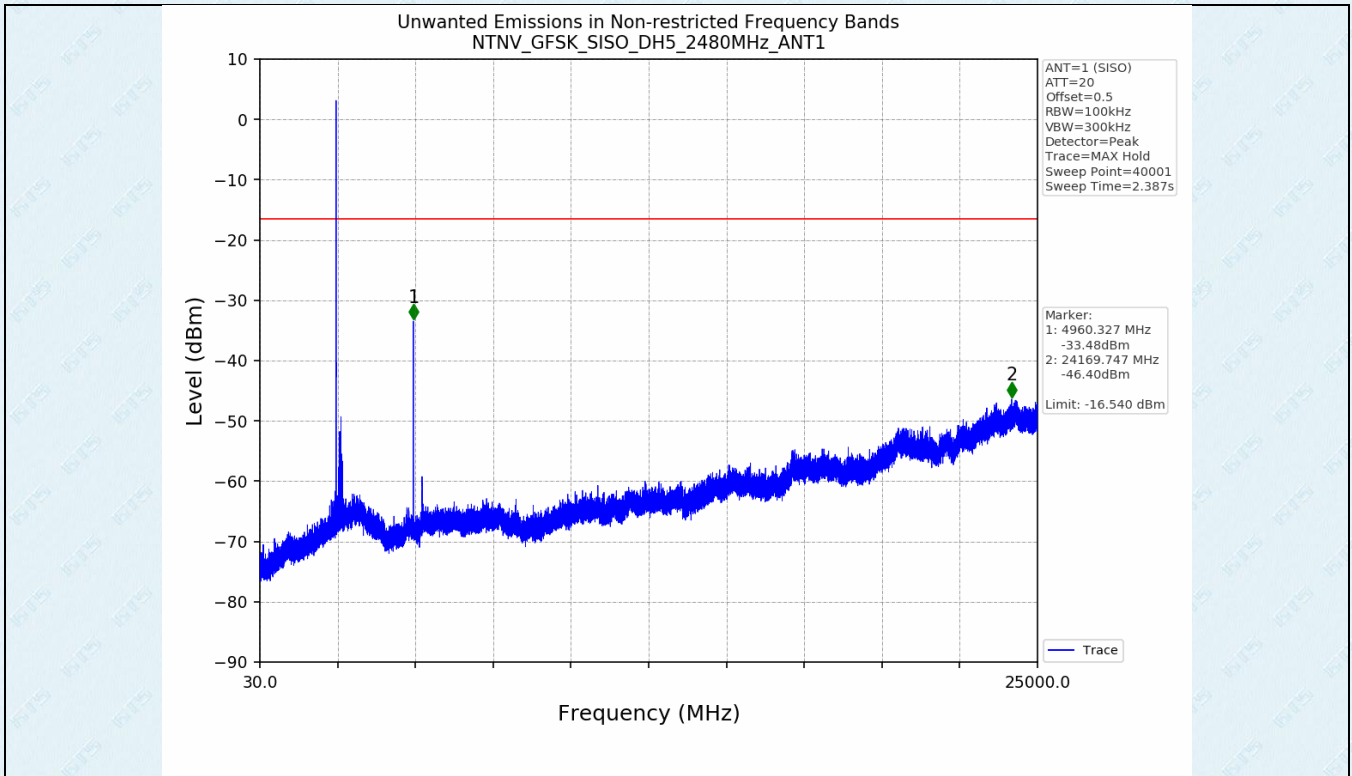
### 6.2 Test Graph

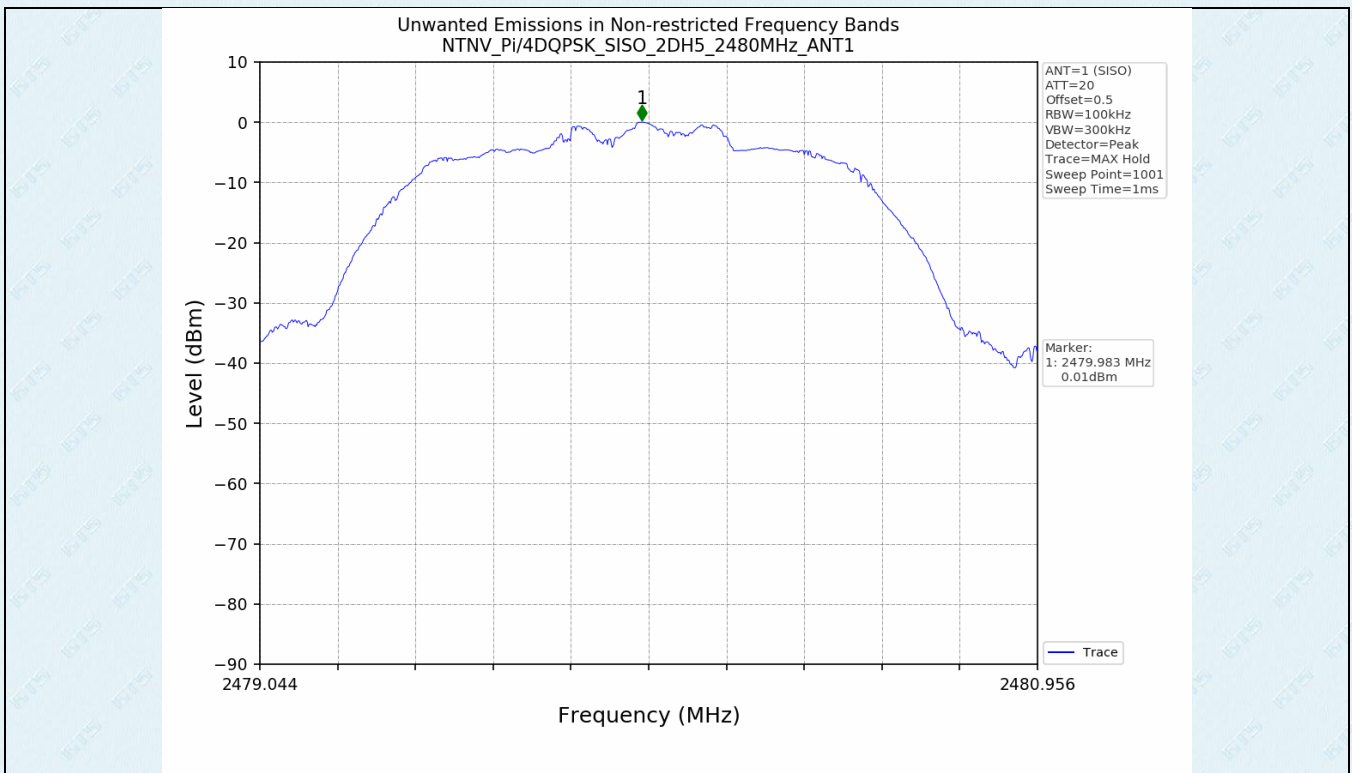
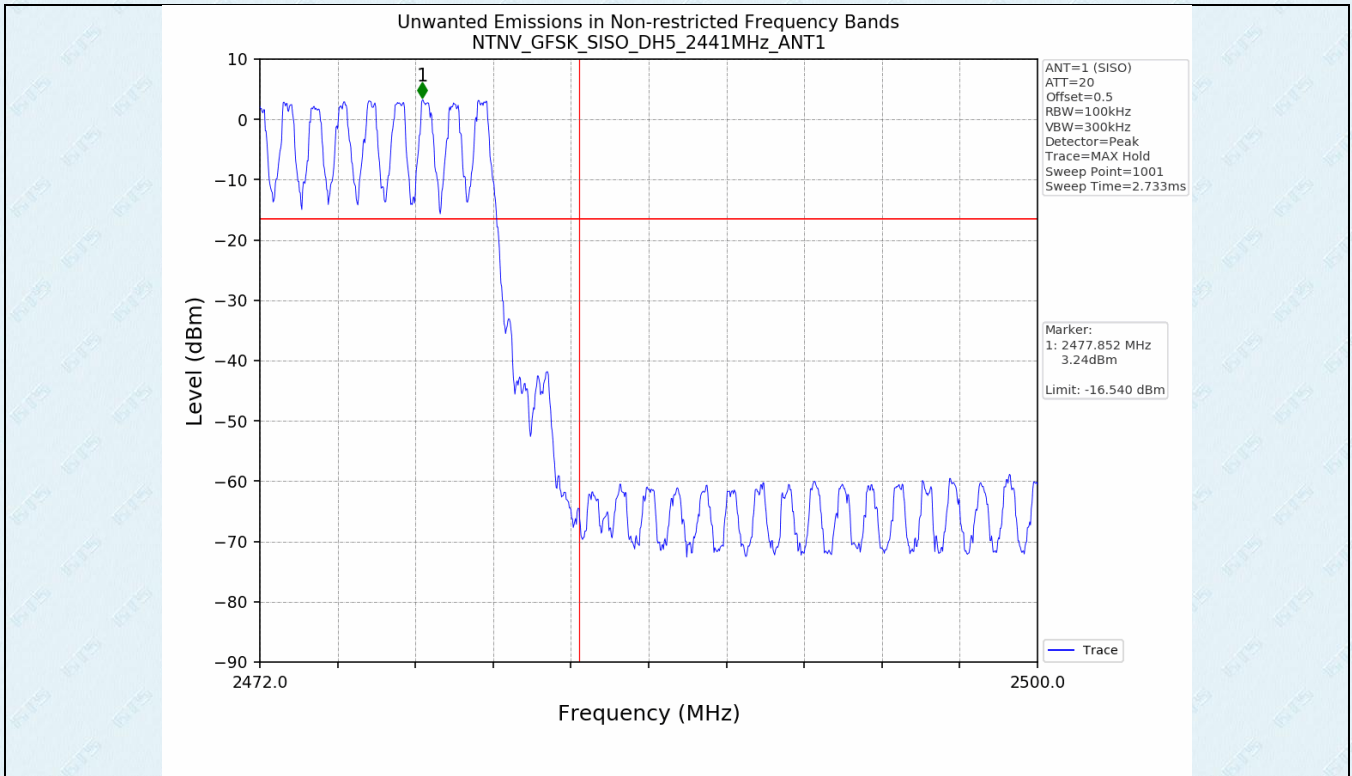


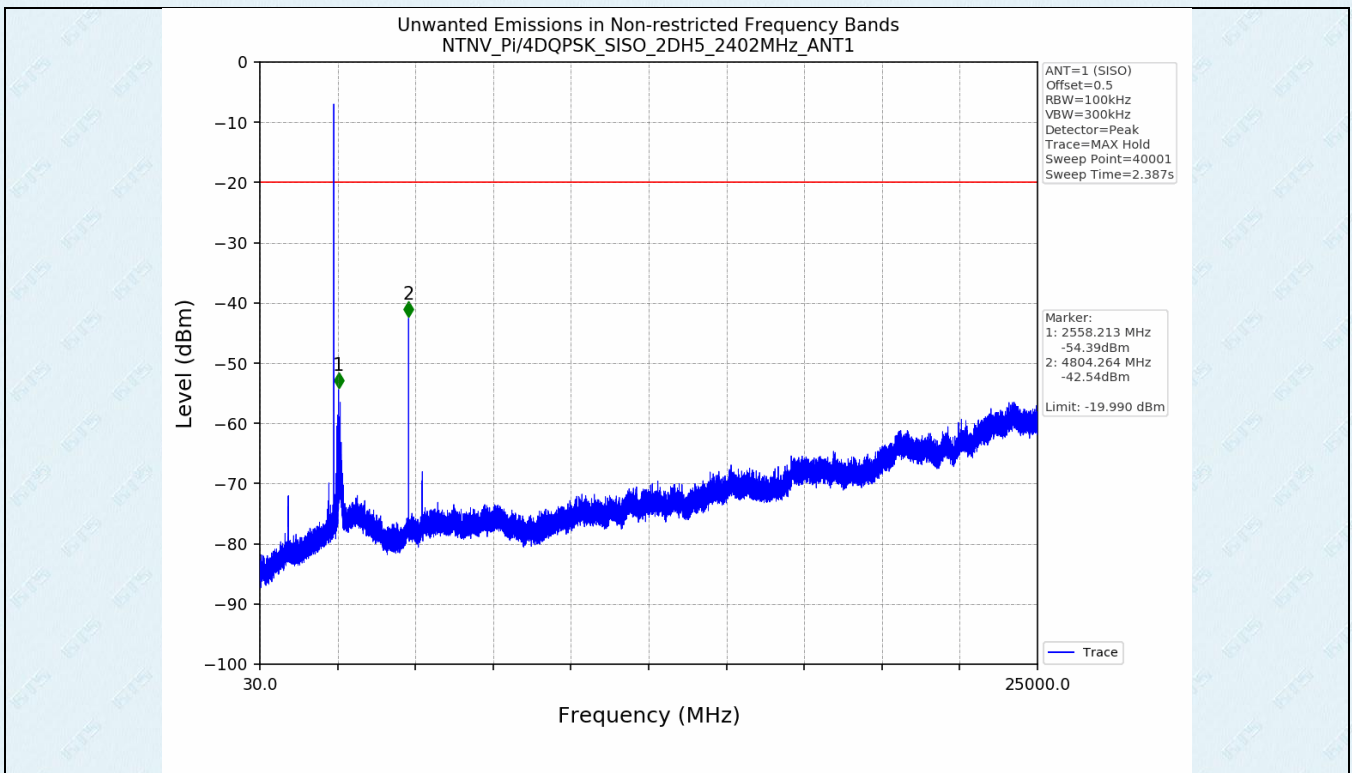
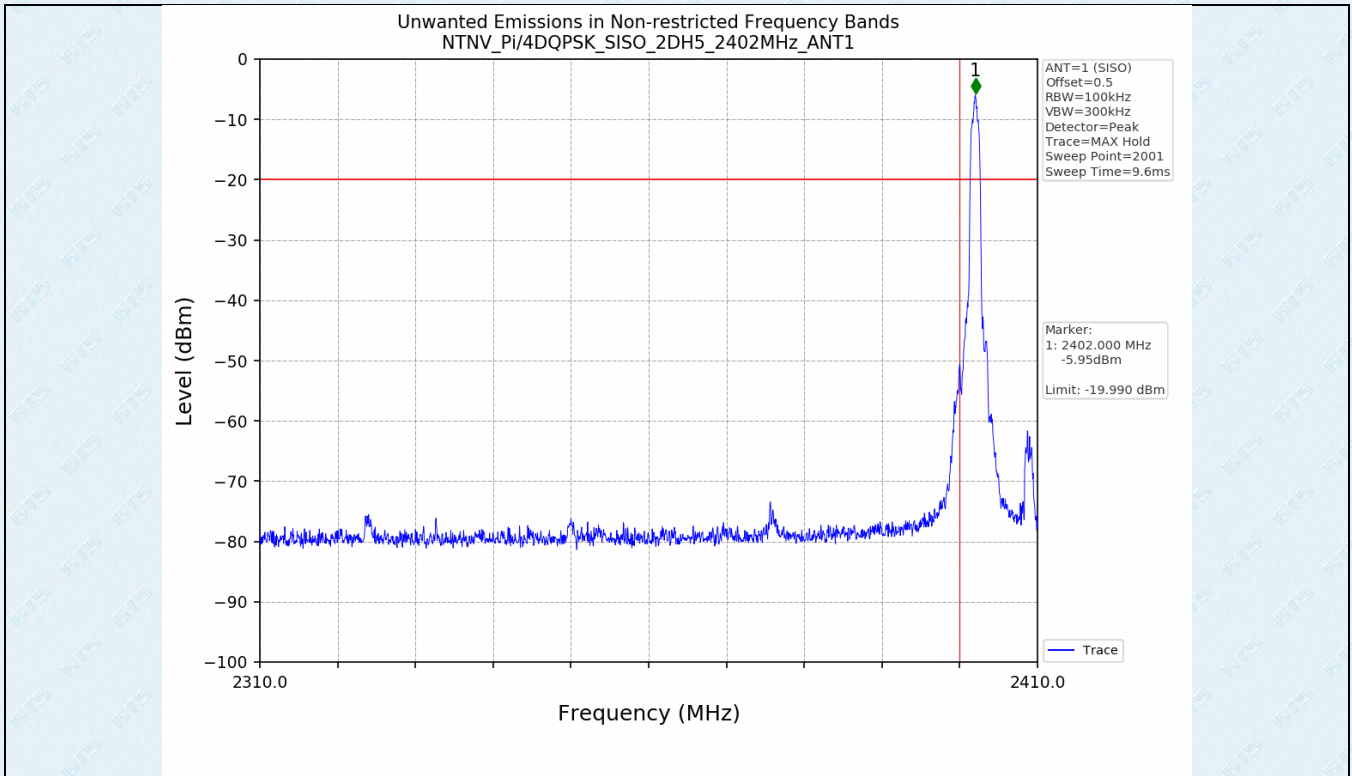


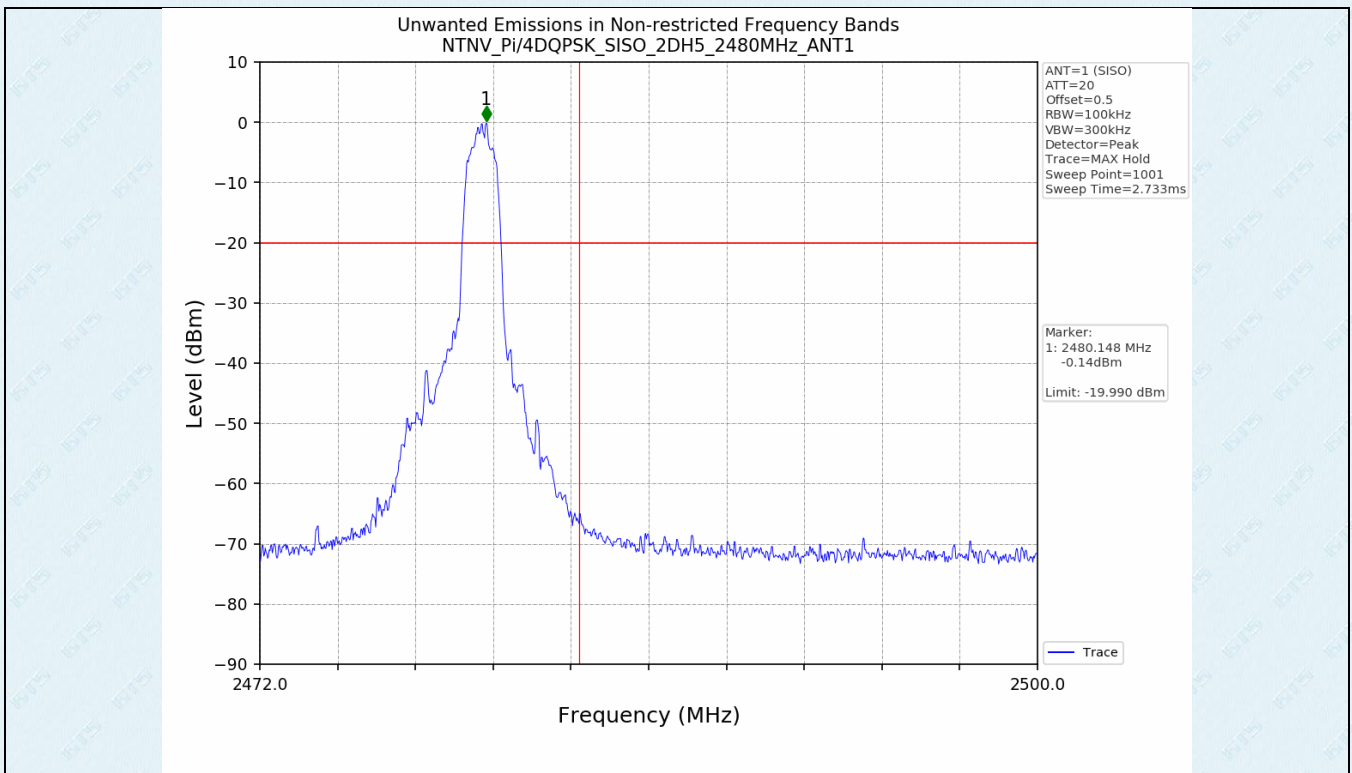
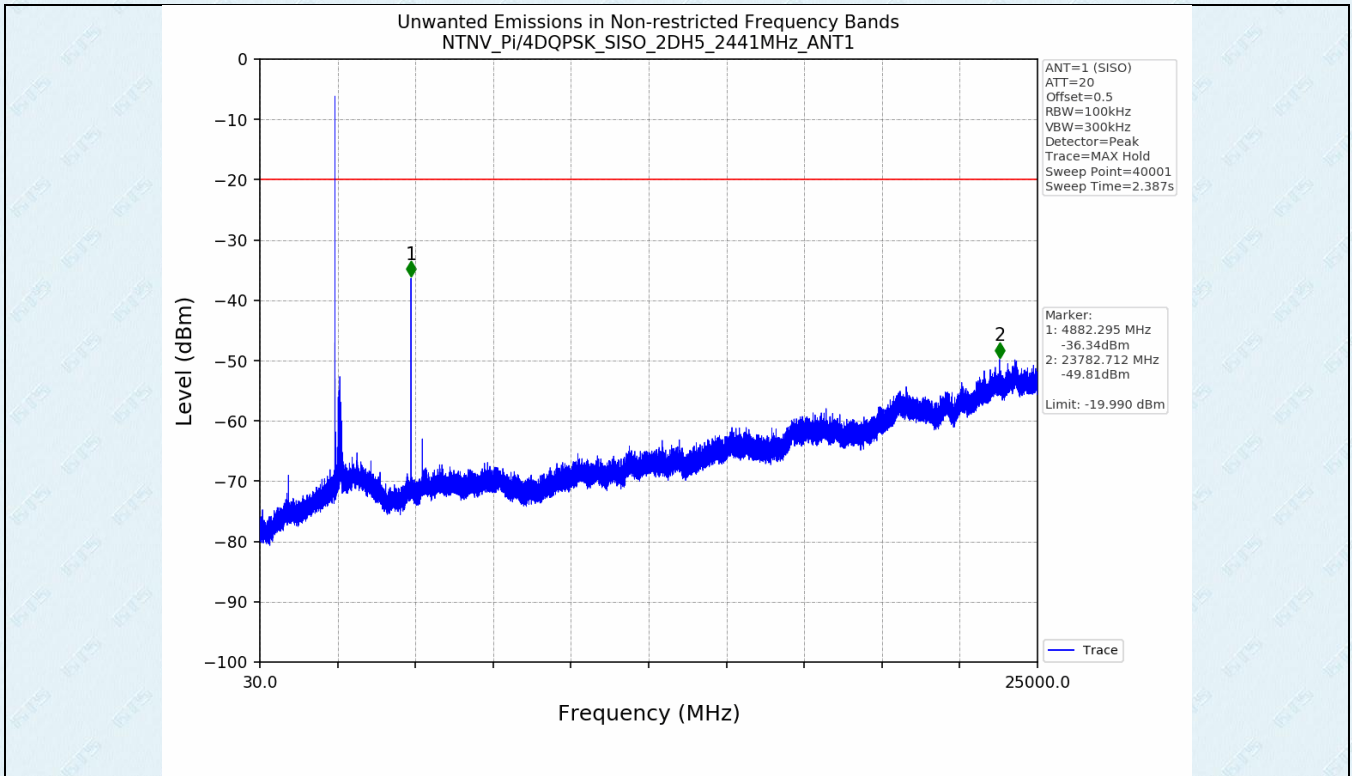


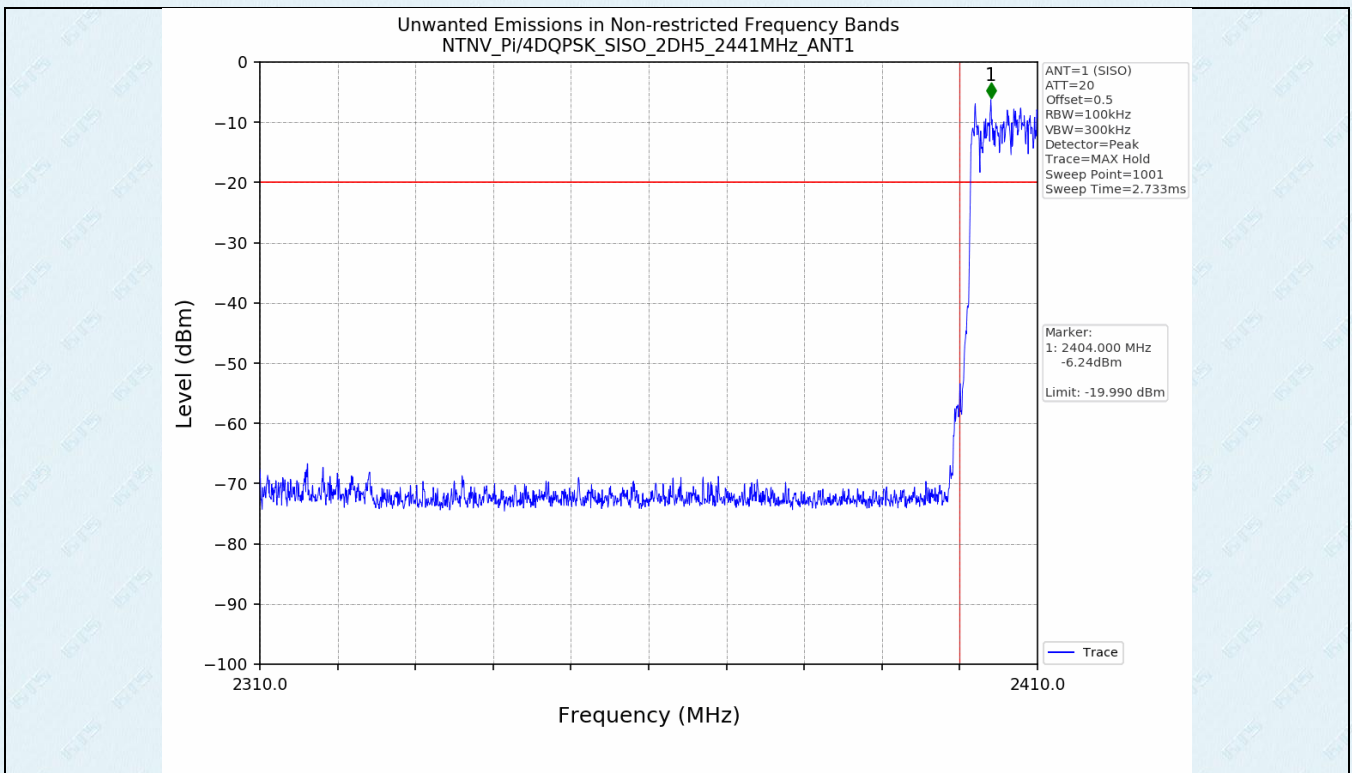
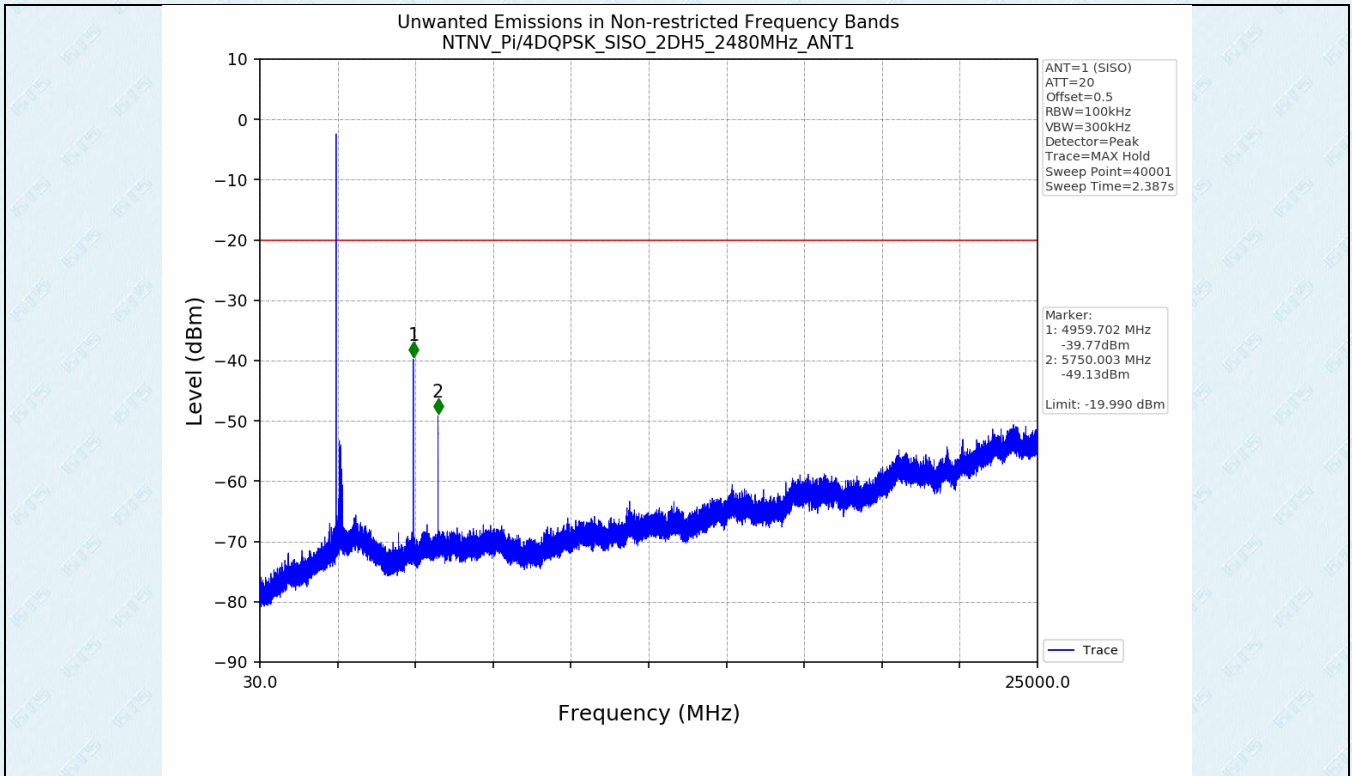


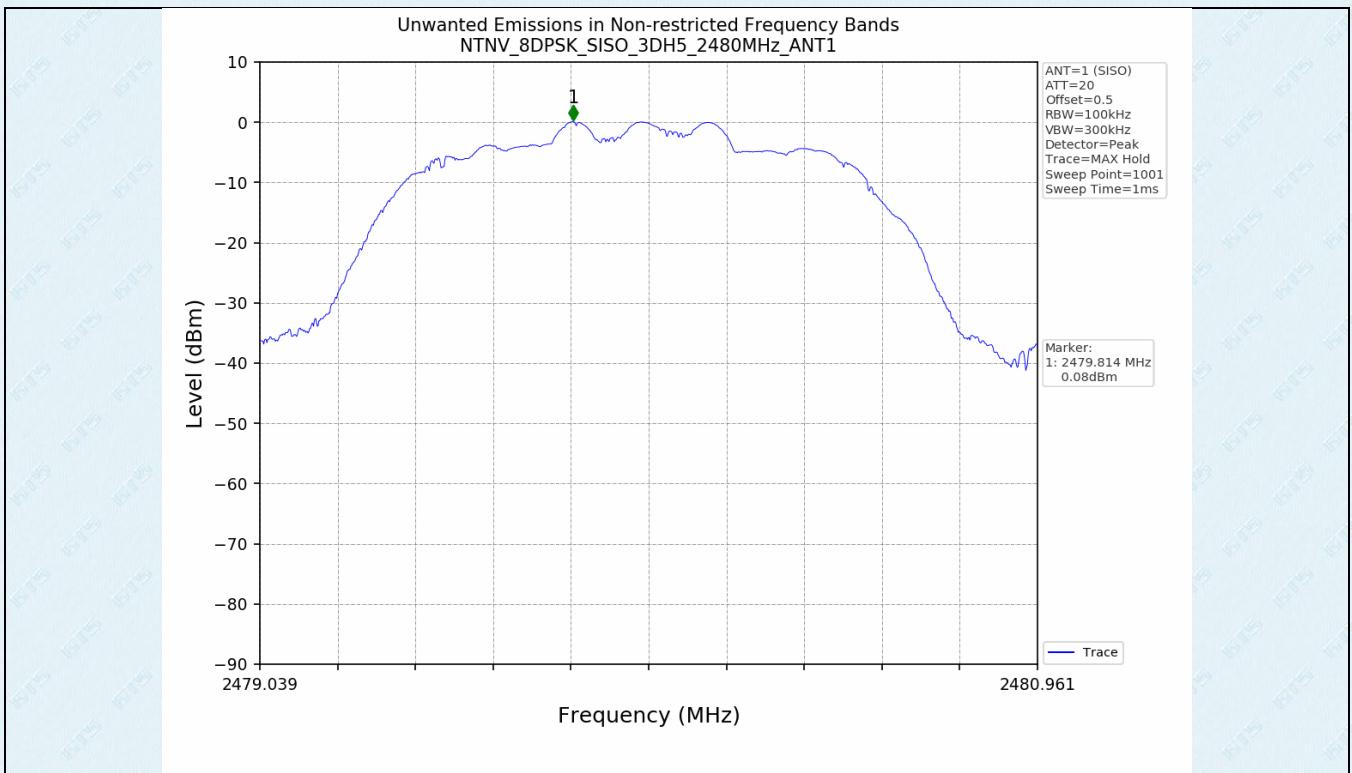
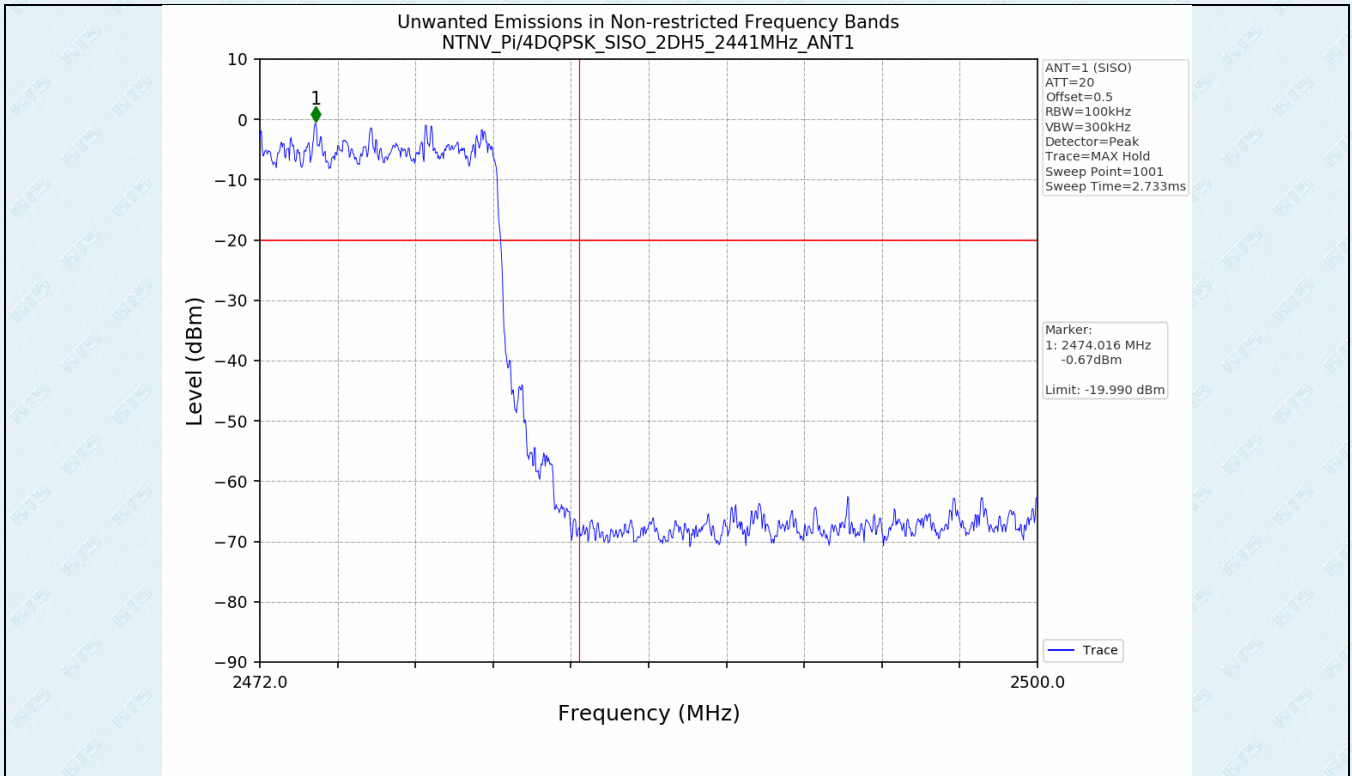


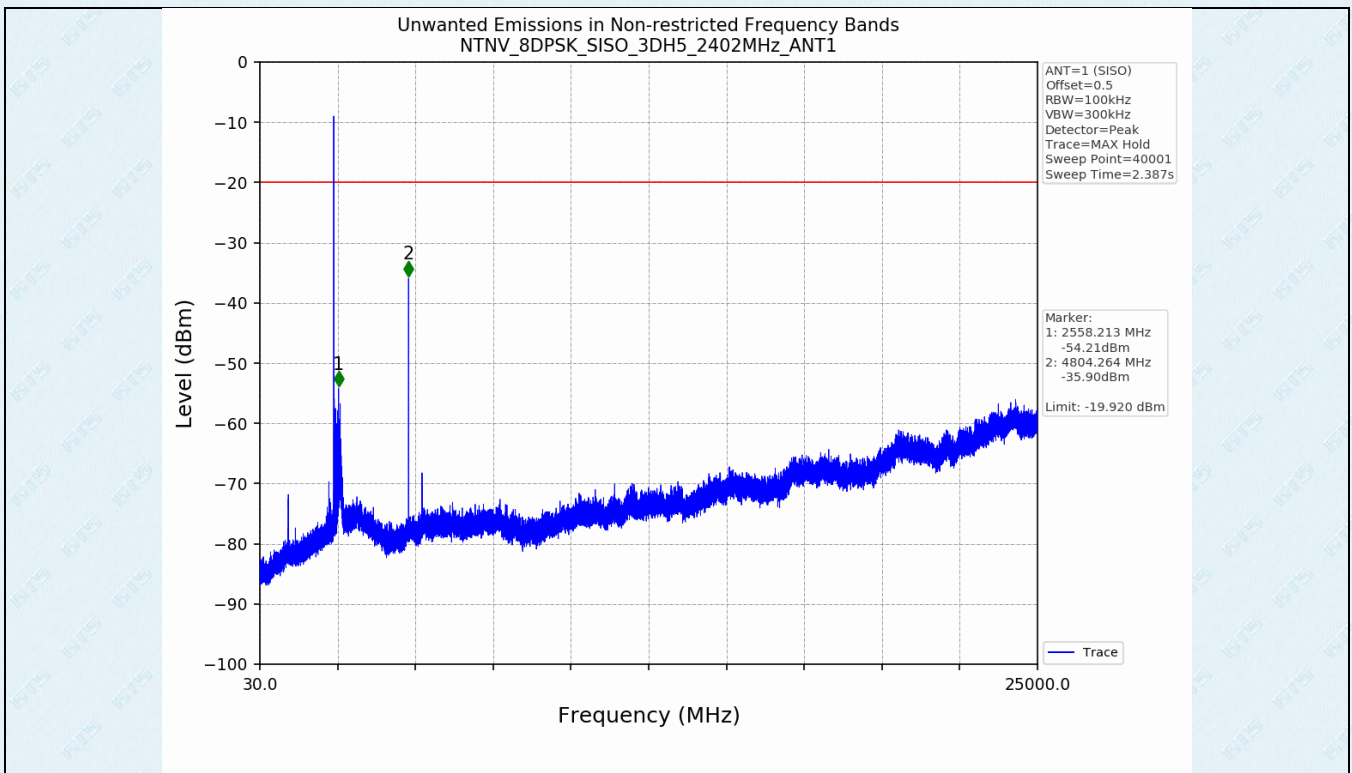
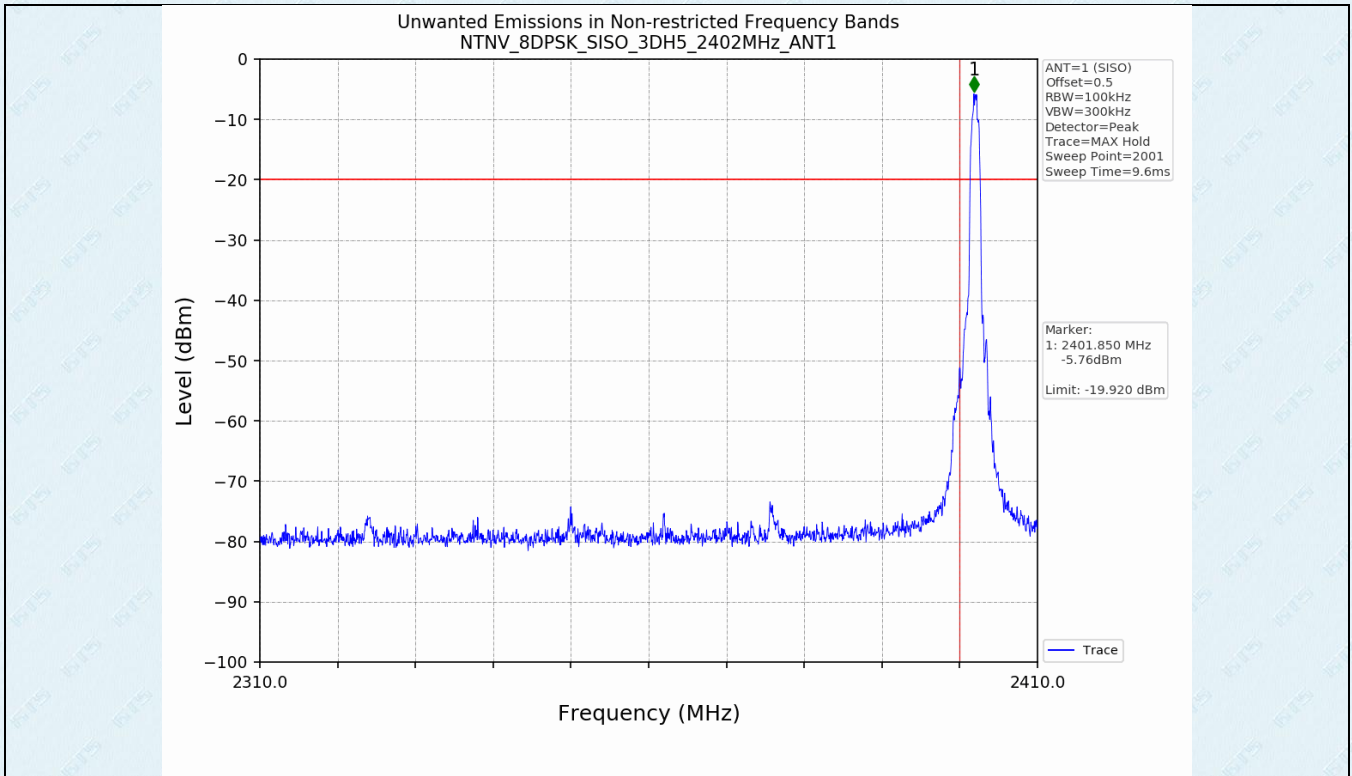


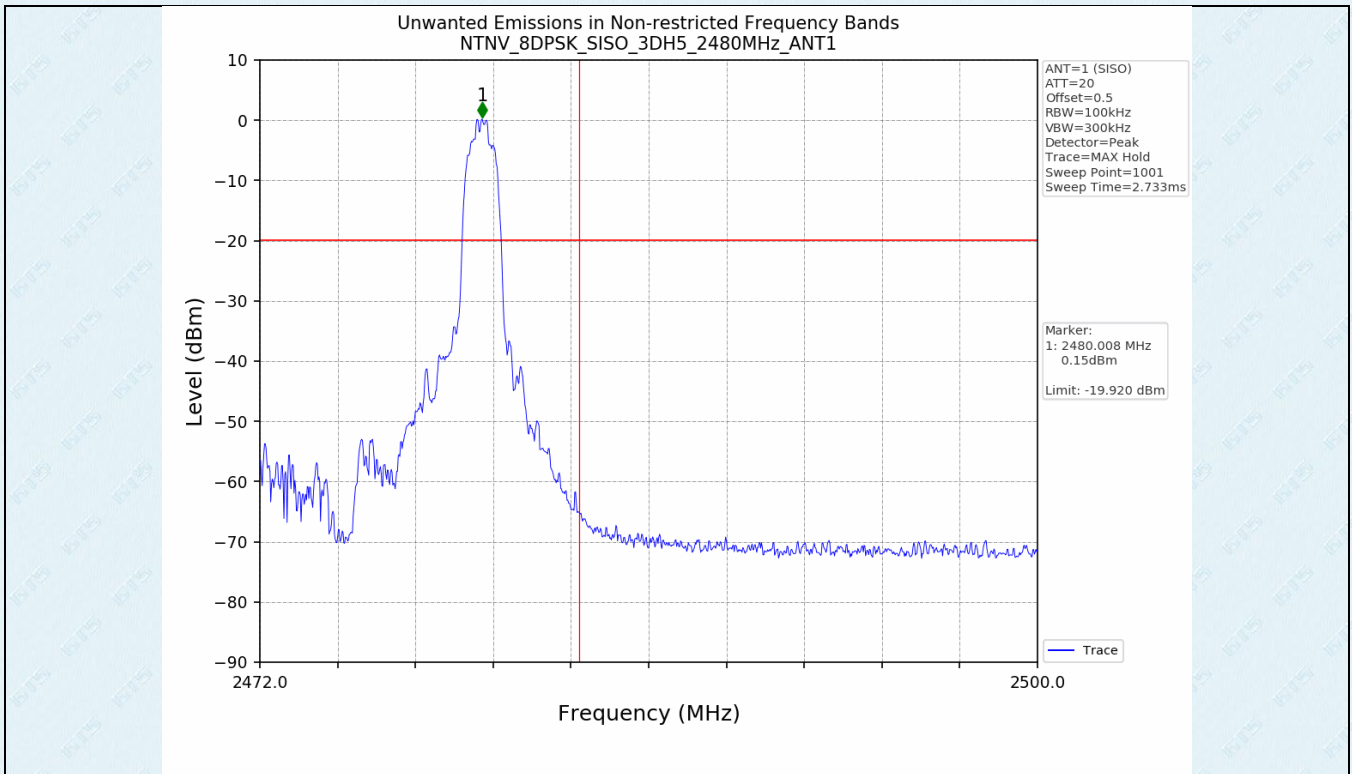
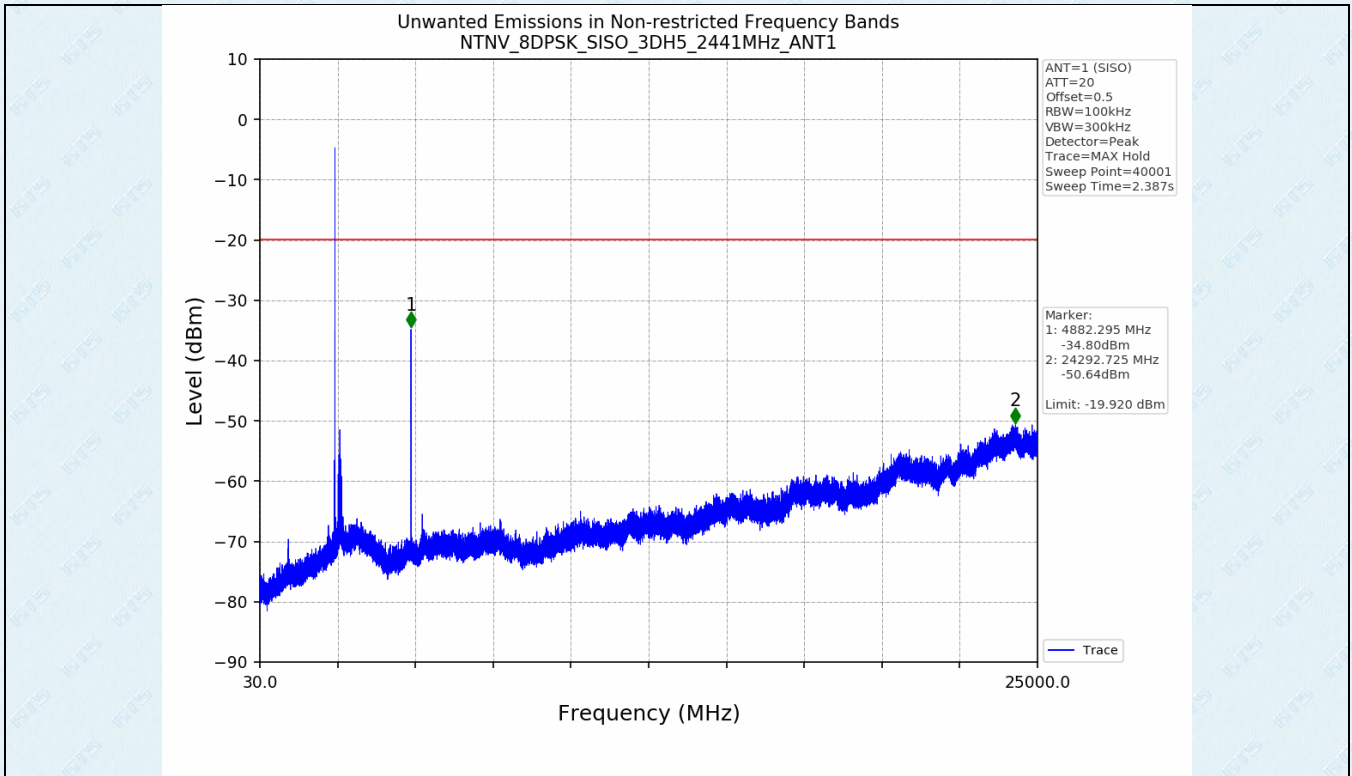




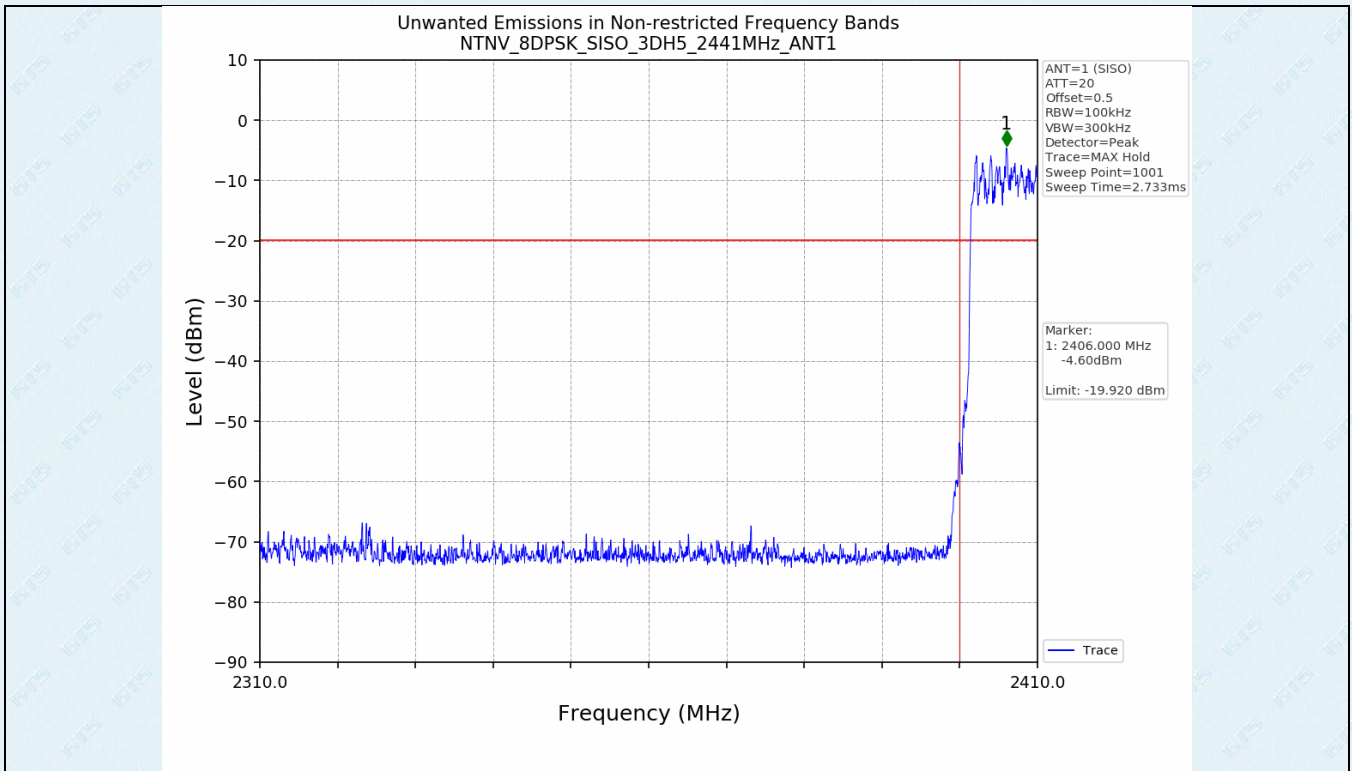
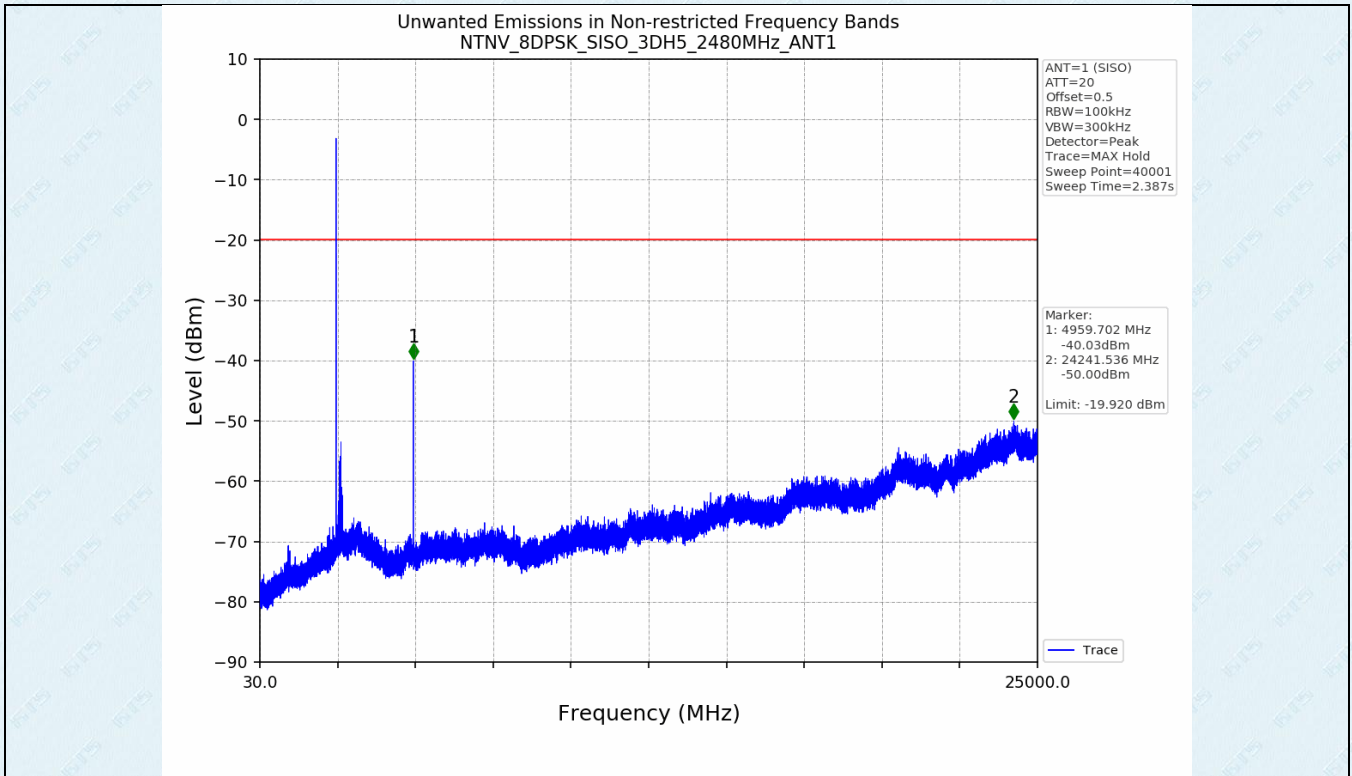


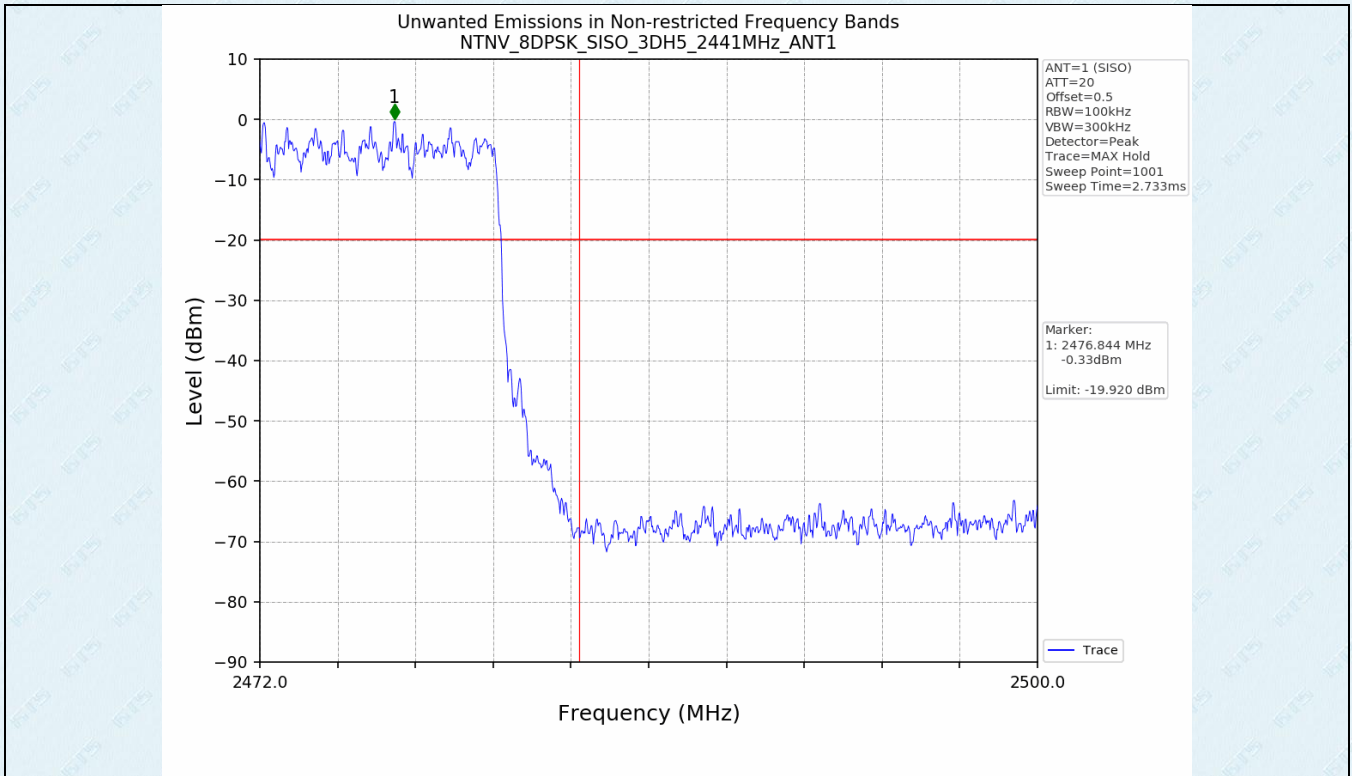












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