



### Appendix for 15.247

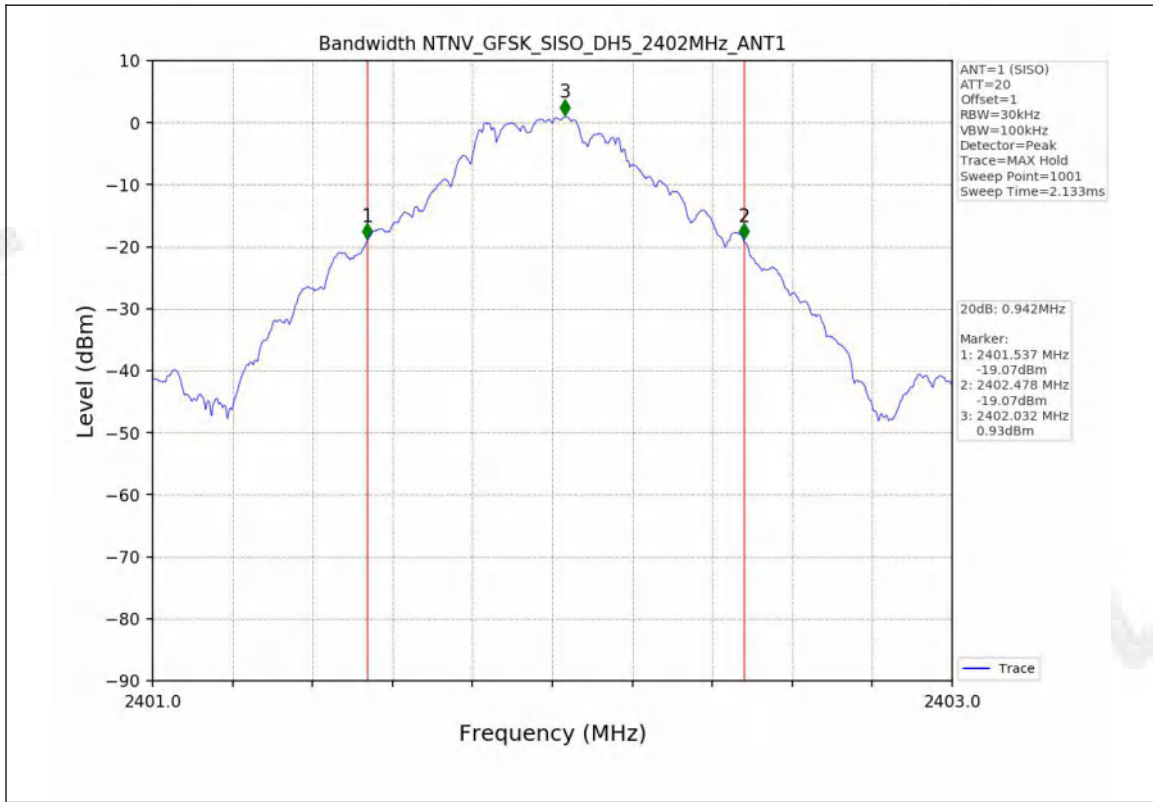
## 1. Bandwidth

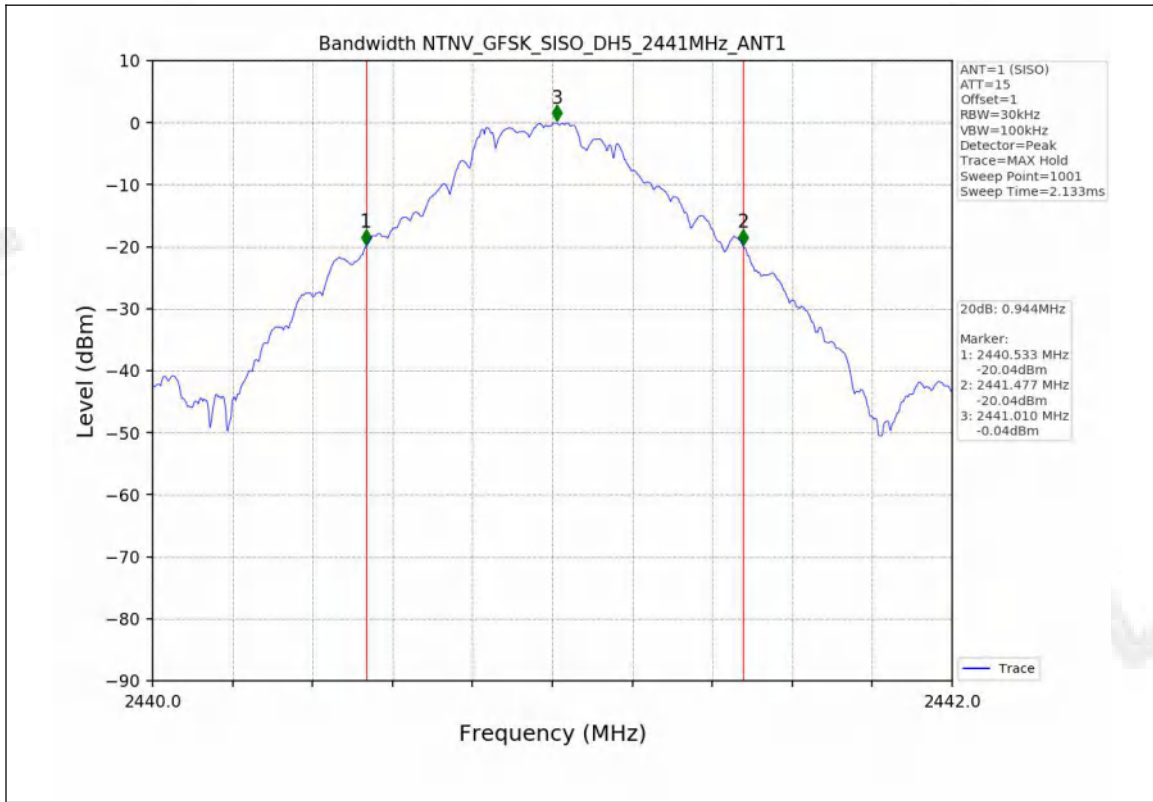
### 1.1 Test Result

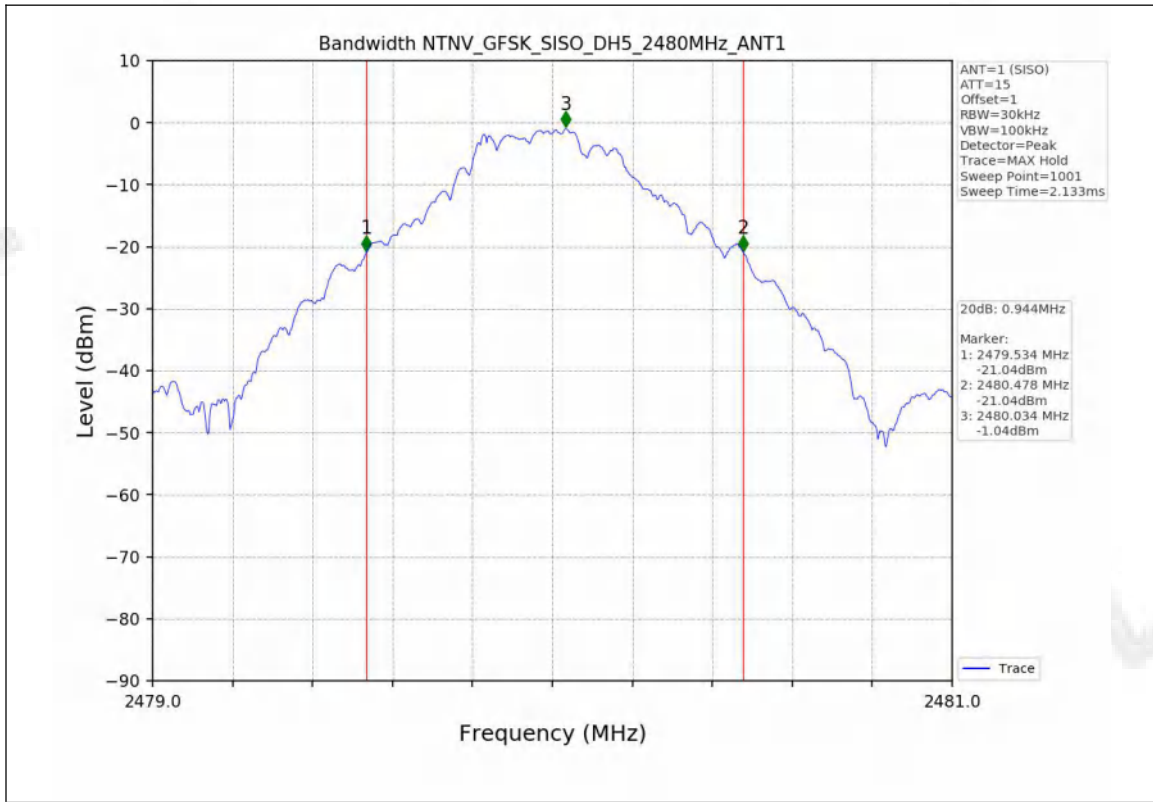
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.942	PASS
	2441	SISO	1	0.944	PASS
	2480	SISO	1	0.944	PASS
Pi/4DQPSK	2402	SISO	1	1.278	PASS
	2441	SISO	1	1.275	PASS
	2480	SISO	1	1.274	PASS
8DPSK	2402	SISO	1	1.298	PASS
	2441	SISO	1	1.290	PASS
	2480	SISO	1	1.280	PASS

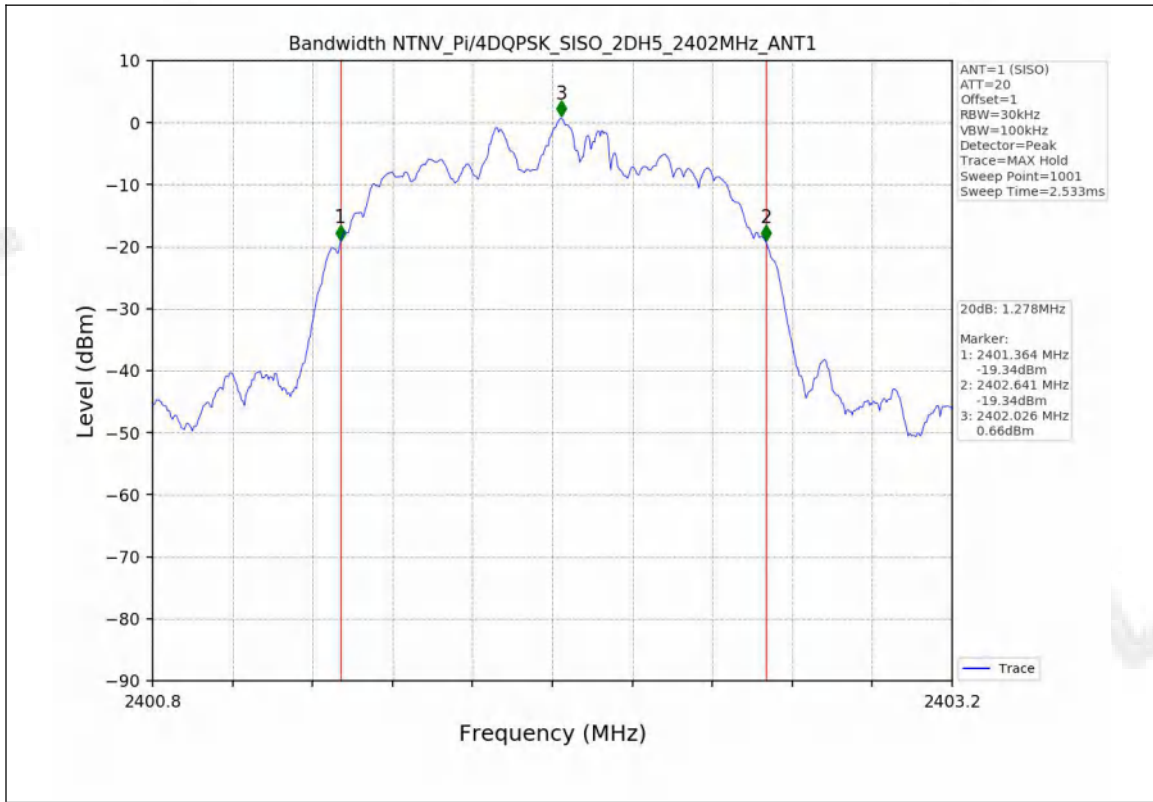
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.823	Only for Report Use
	2441	SISO	1	0.822	Only for Report Use
	2480	SISO	1	0.822	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.156	Only for Report Use
	2441	SISO	1	1.154	Only for Report Use
	2480	SISO	1	1.158	Only for Report Use
8DPSK	2402	SISO	1	1.172	Only for Report Use
	2441	SISO	1	1.176	Only for Report Use
	2480	SISO	1	1.175	Only for Report Use

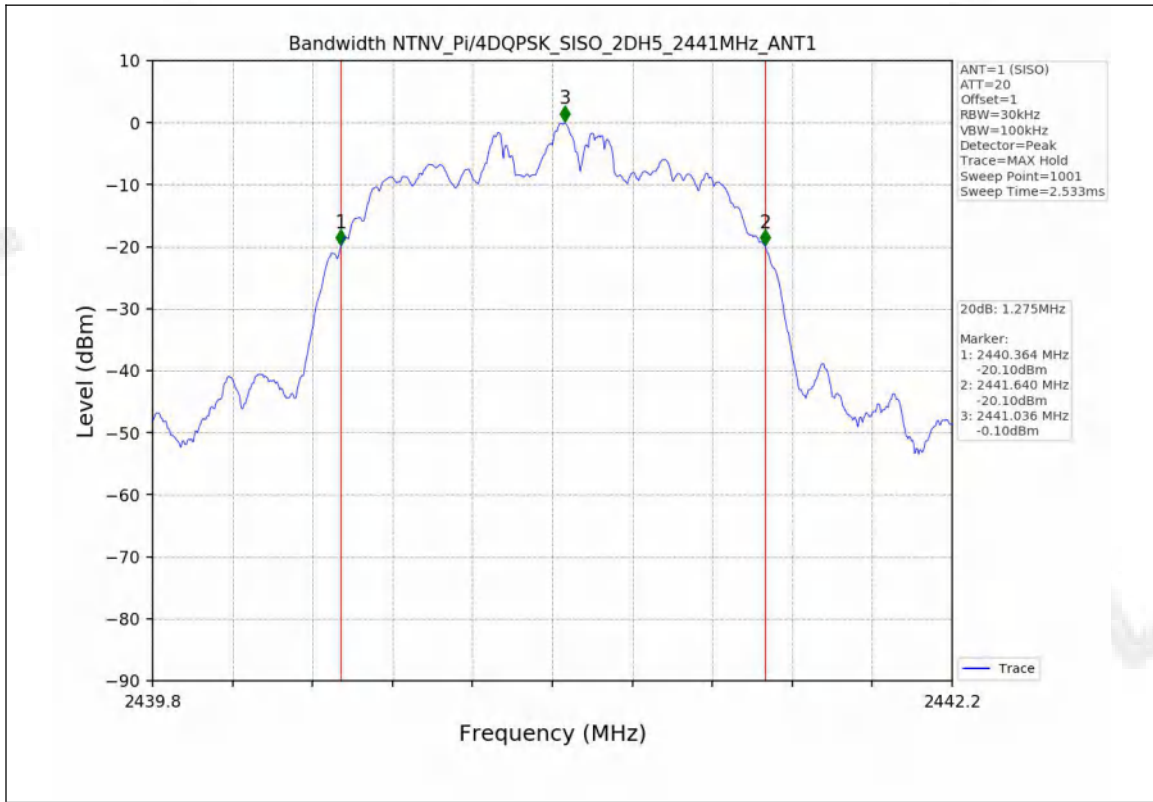
### 1.2 Test Graph - 20dB Bandwidth

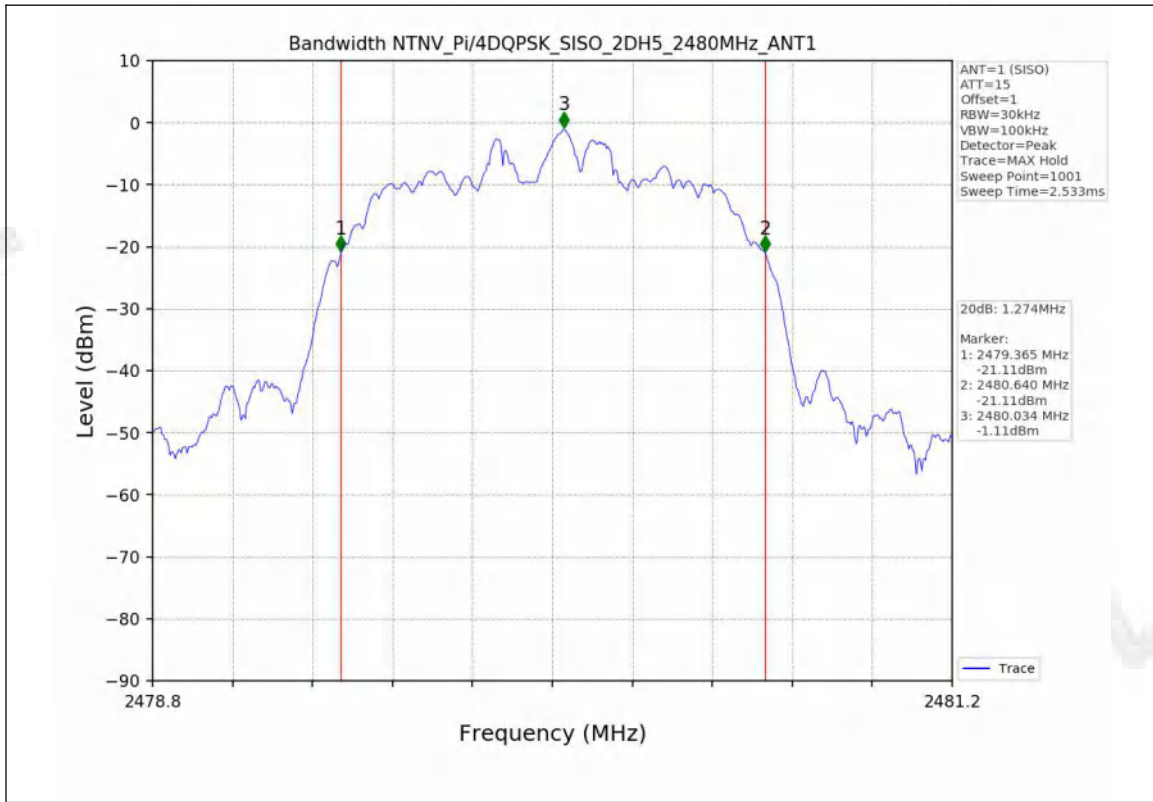


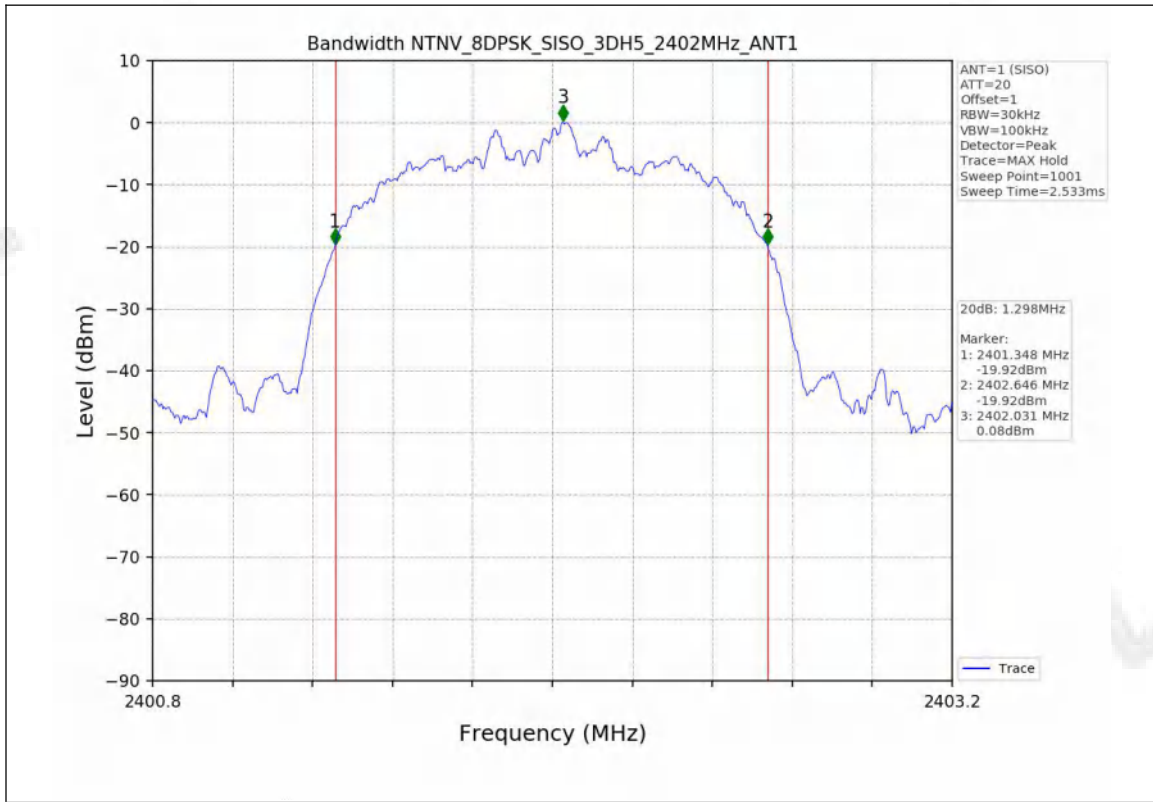




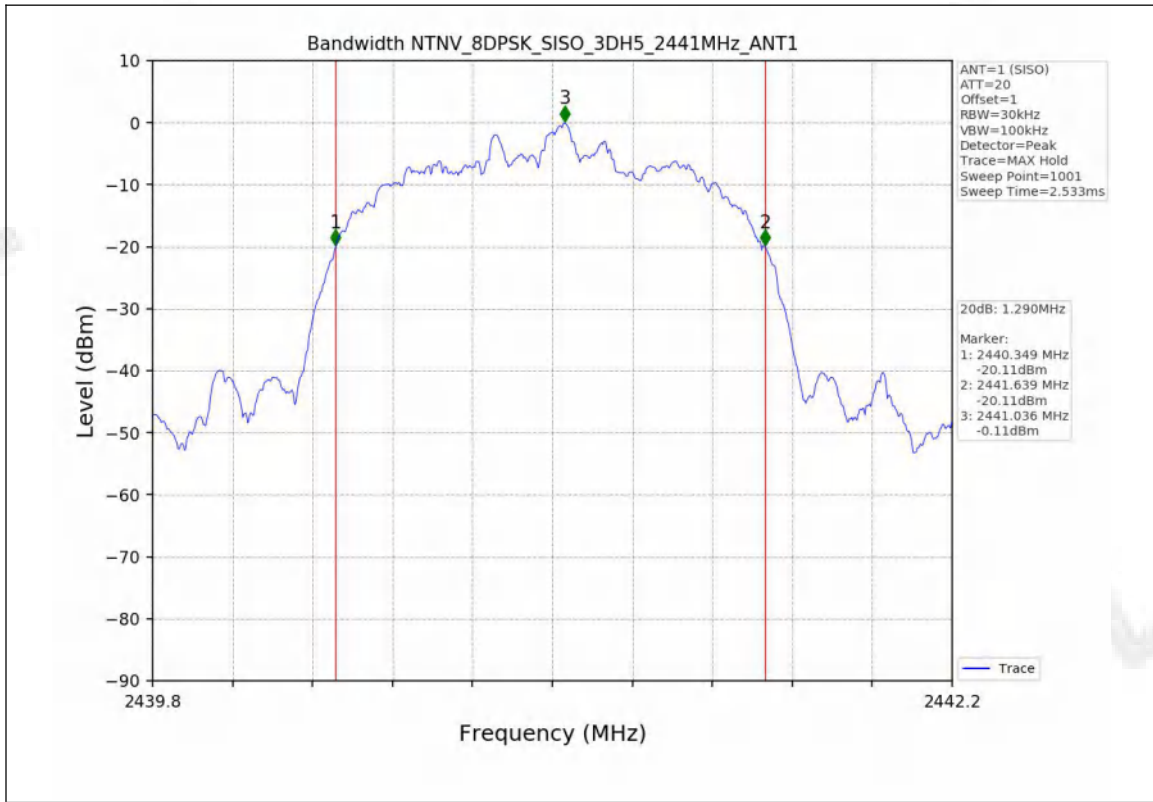


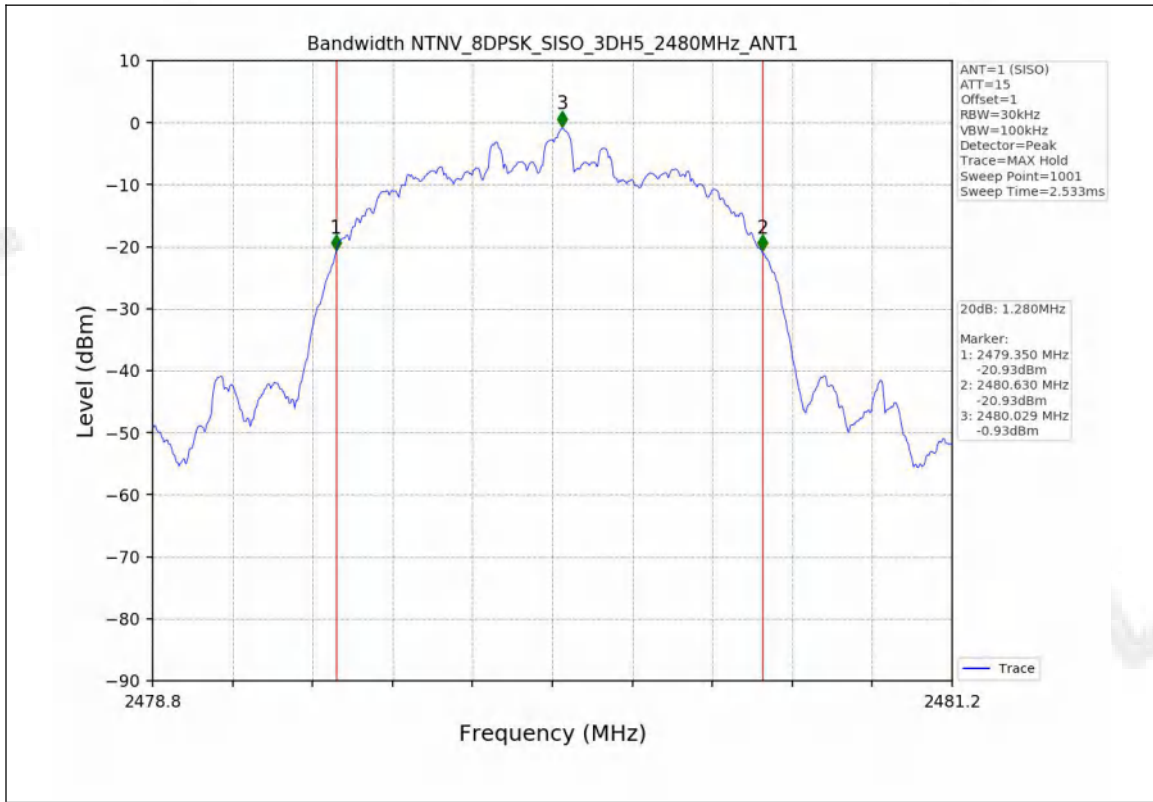




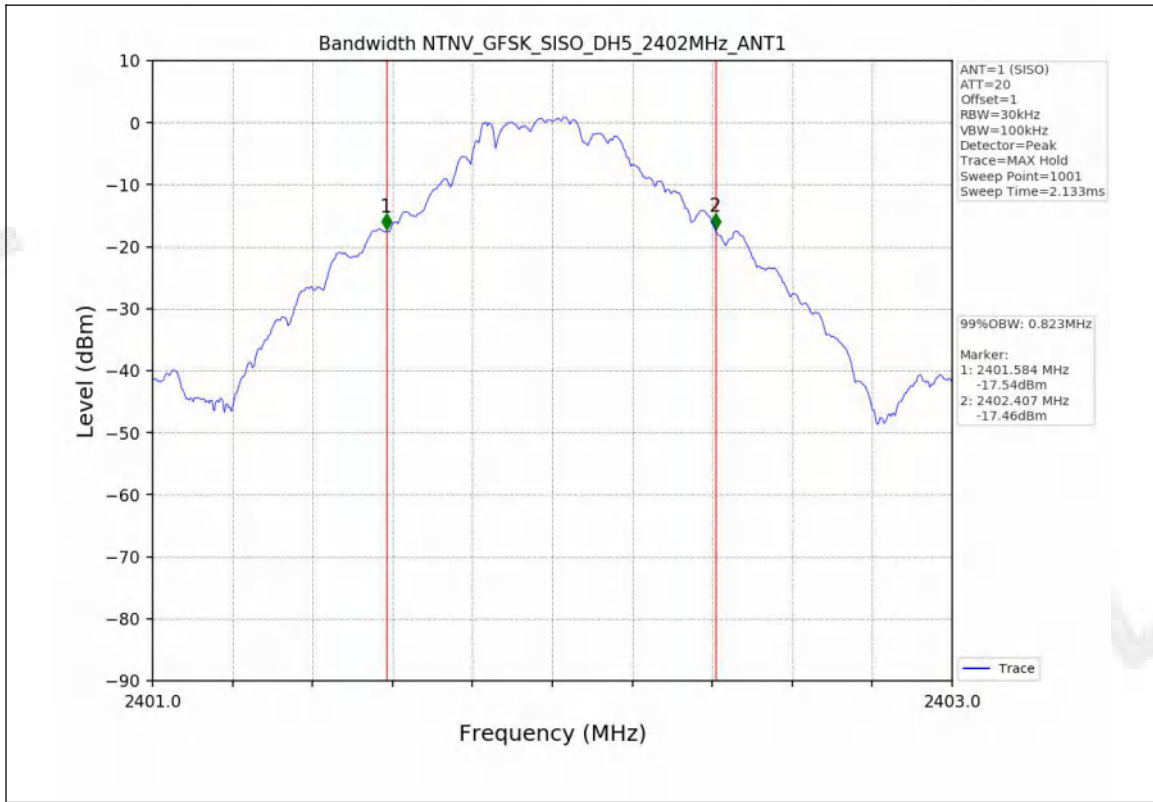


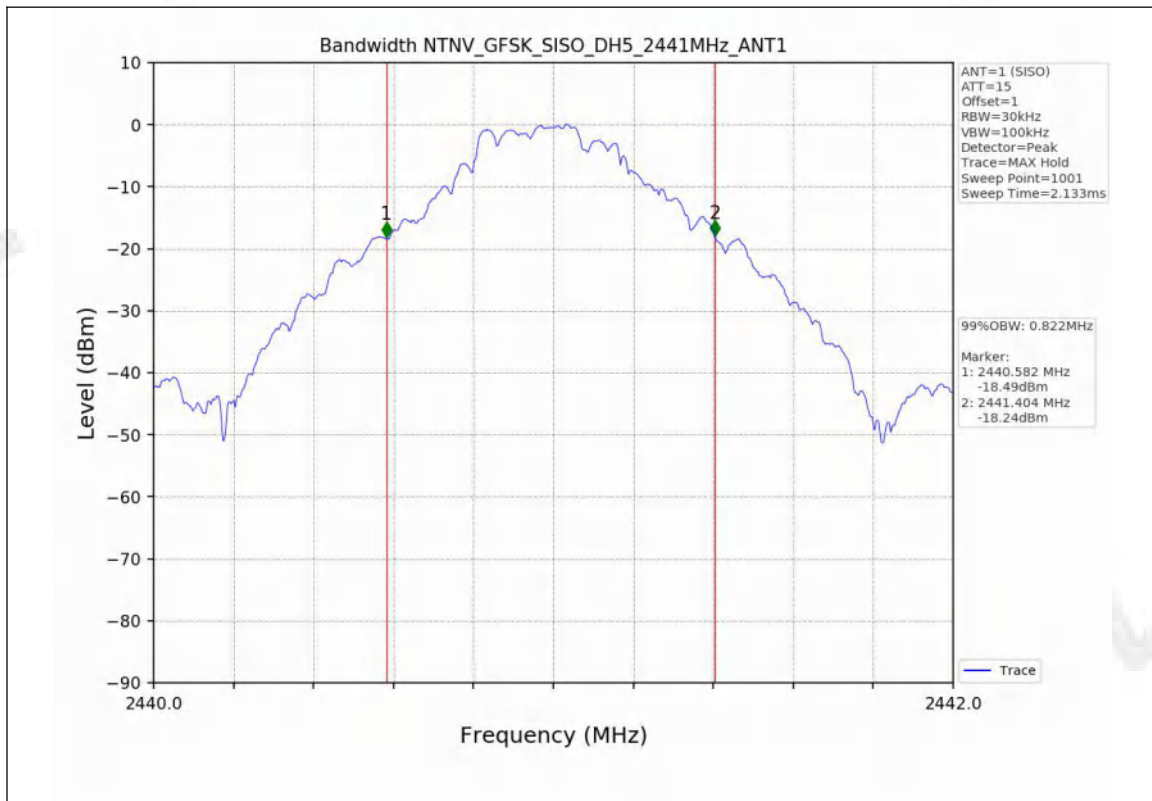


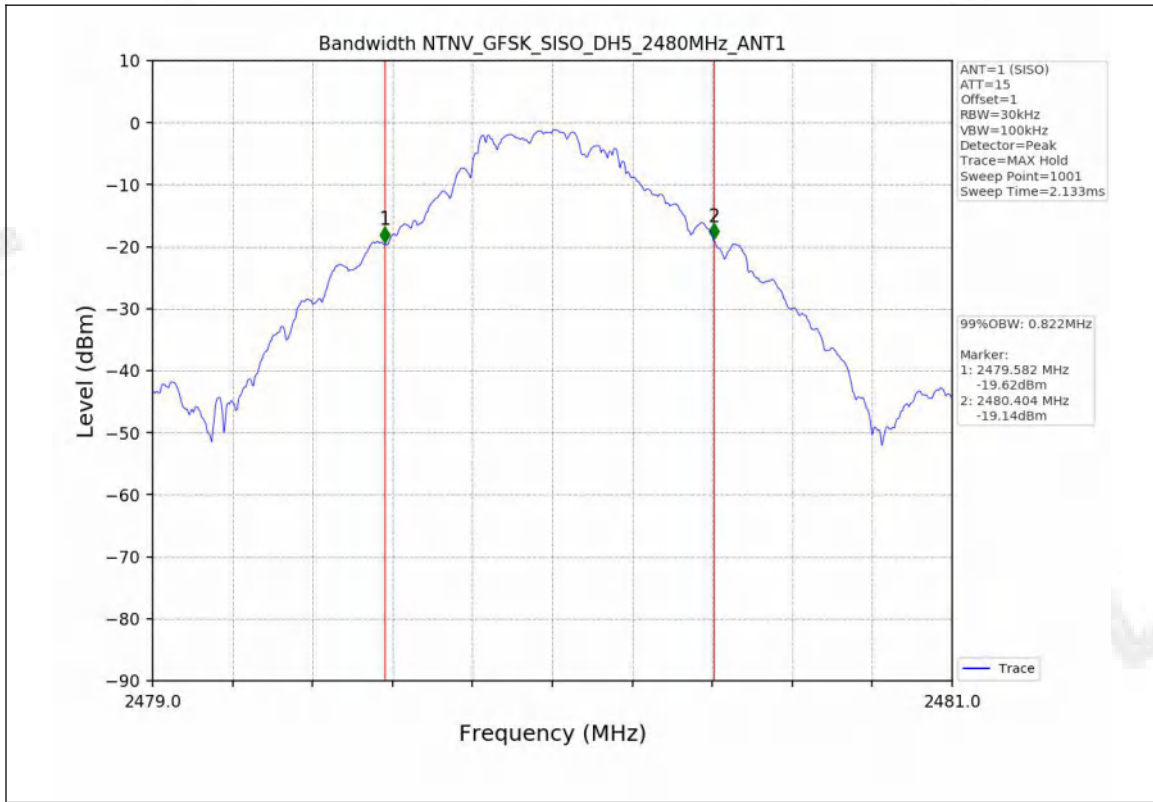


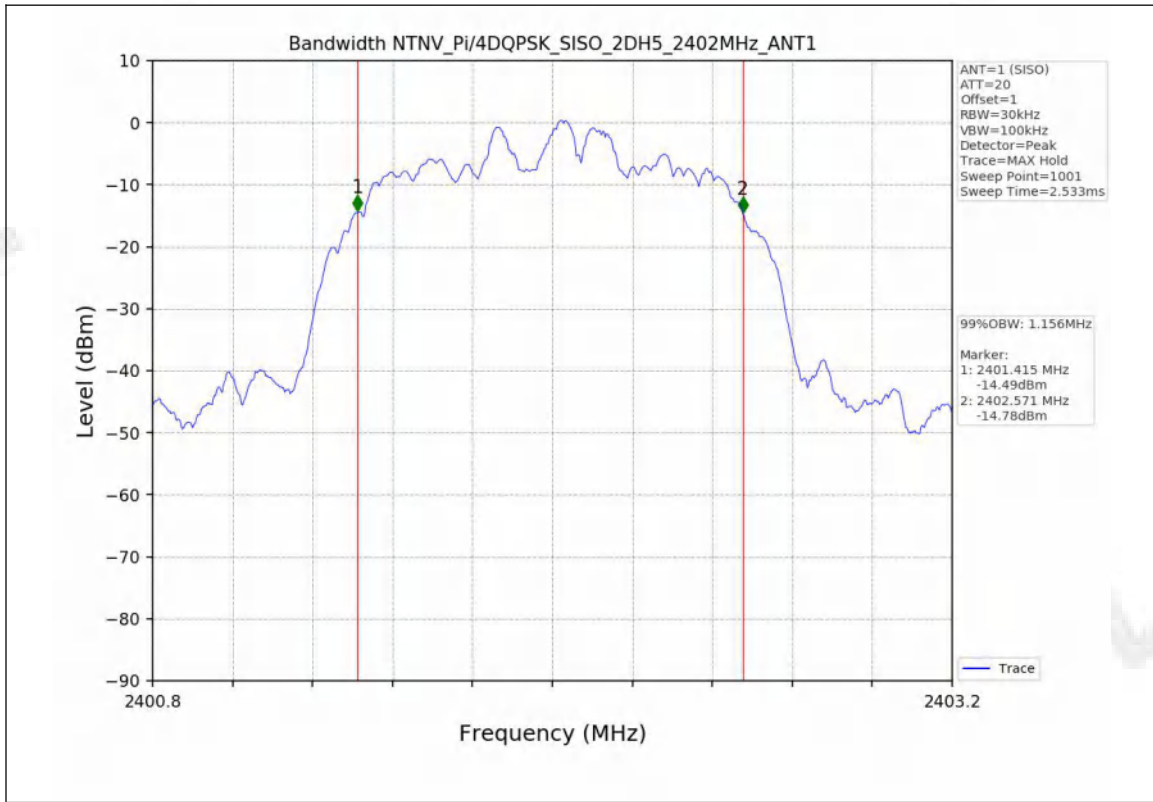


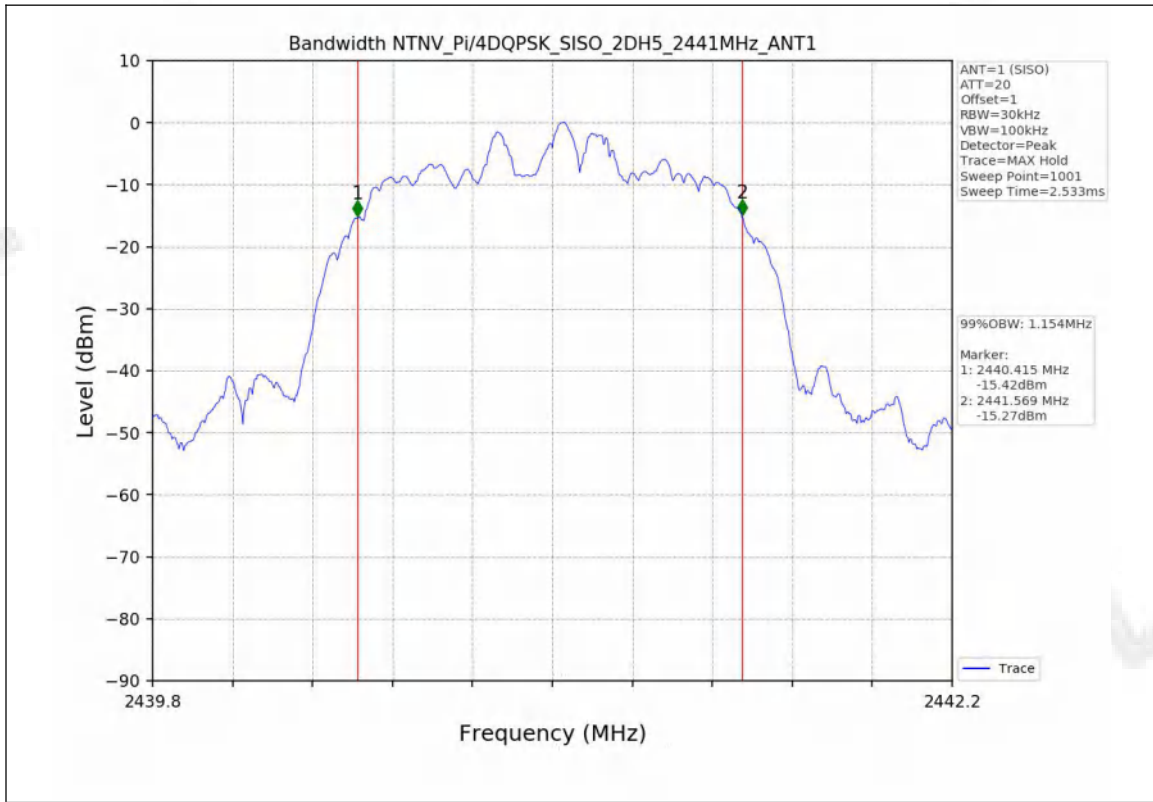
### 1.3 Test Graph - 99% Occupied Bandwidth

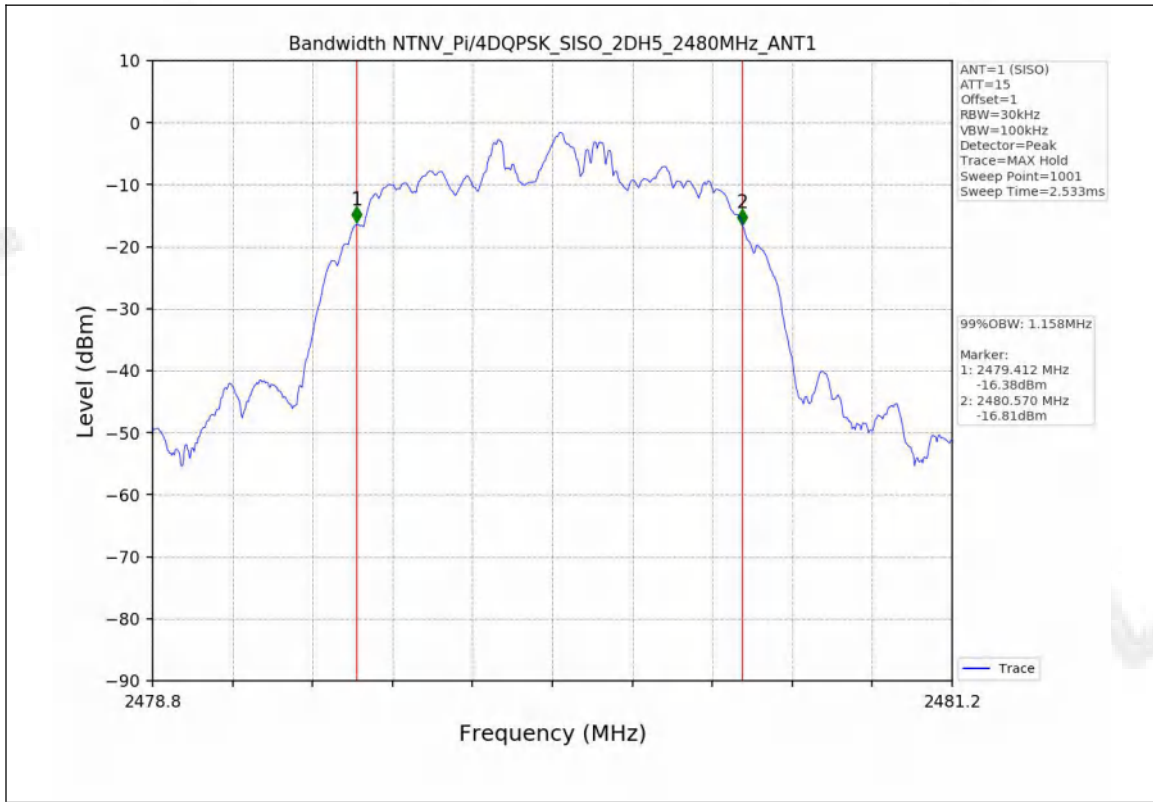




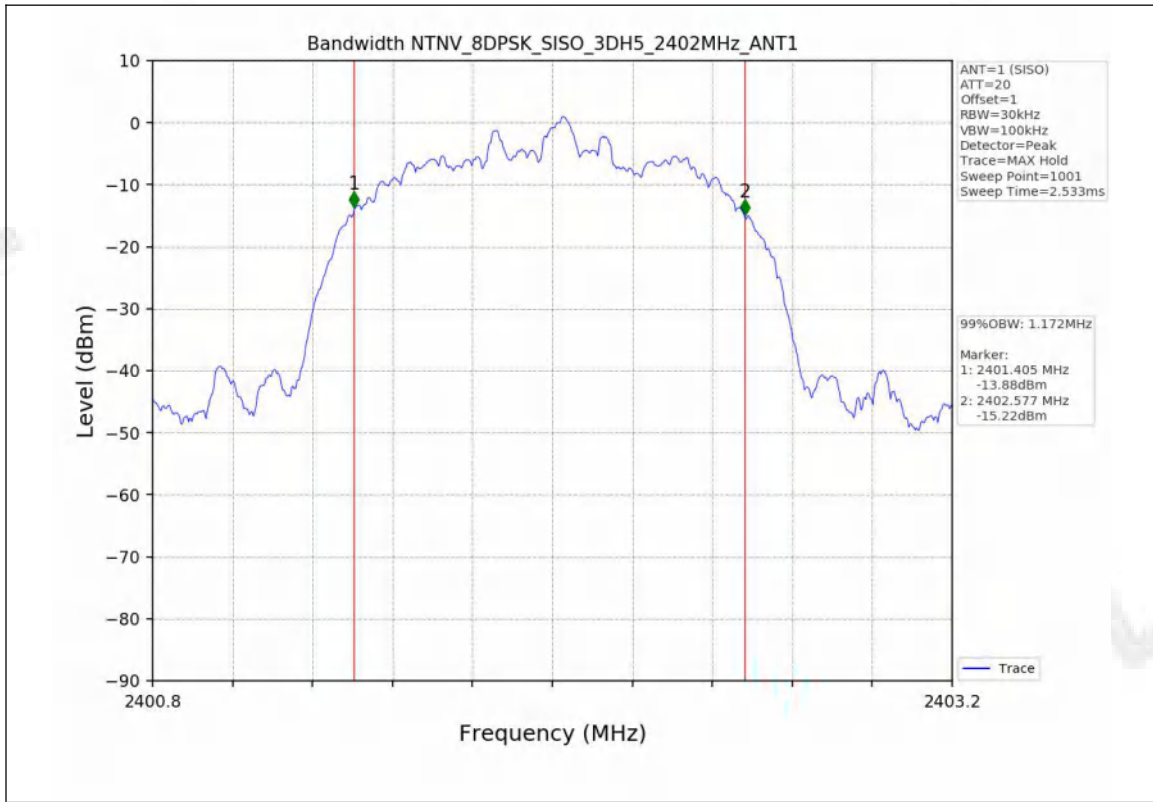


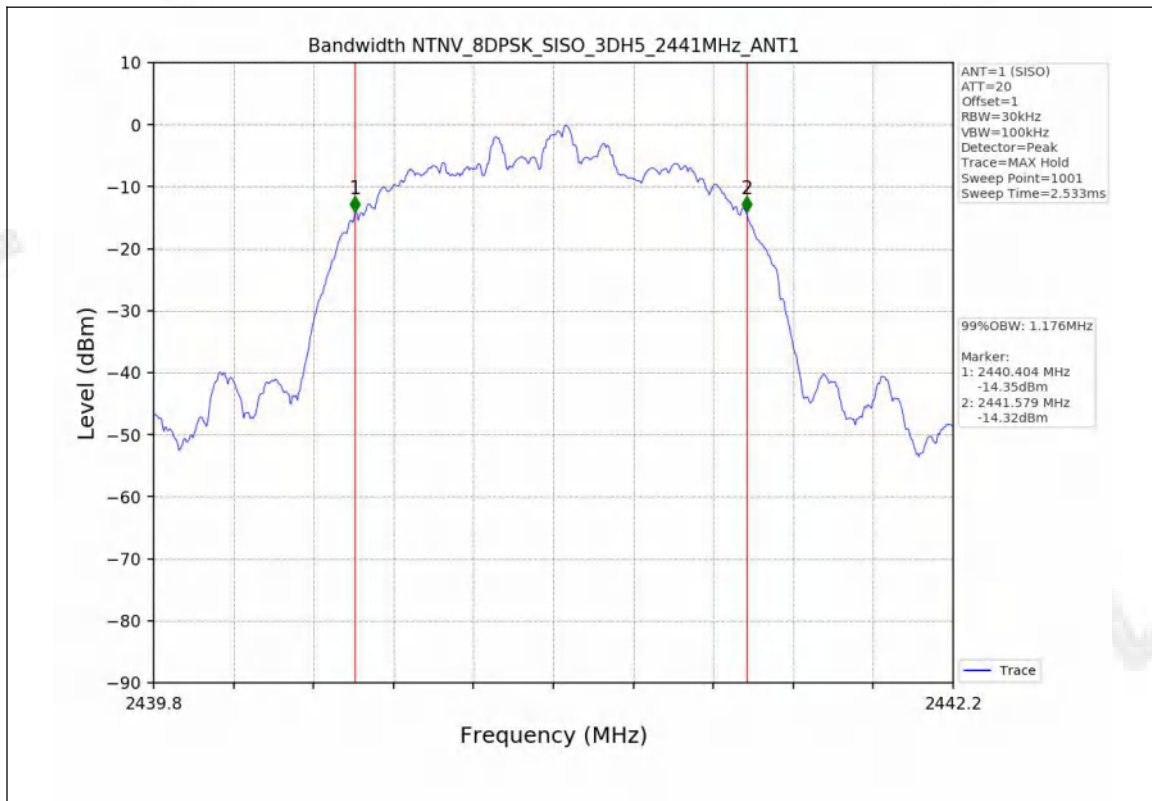


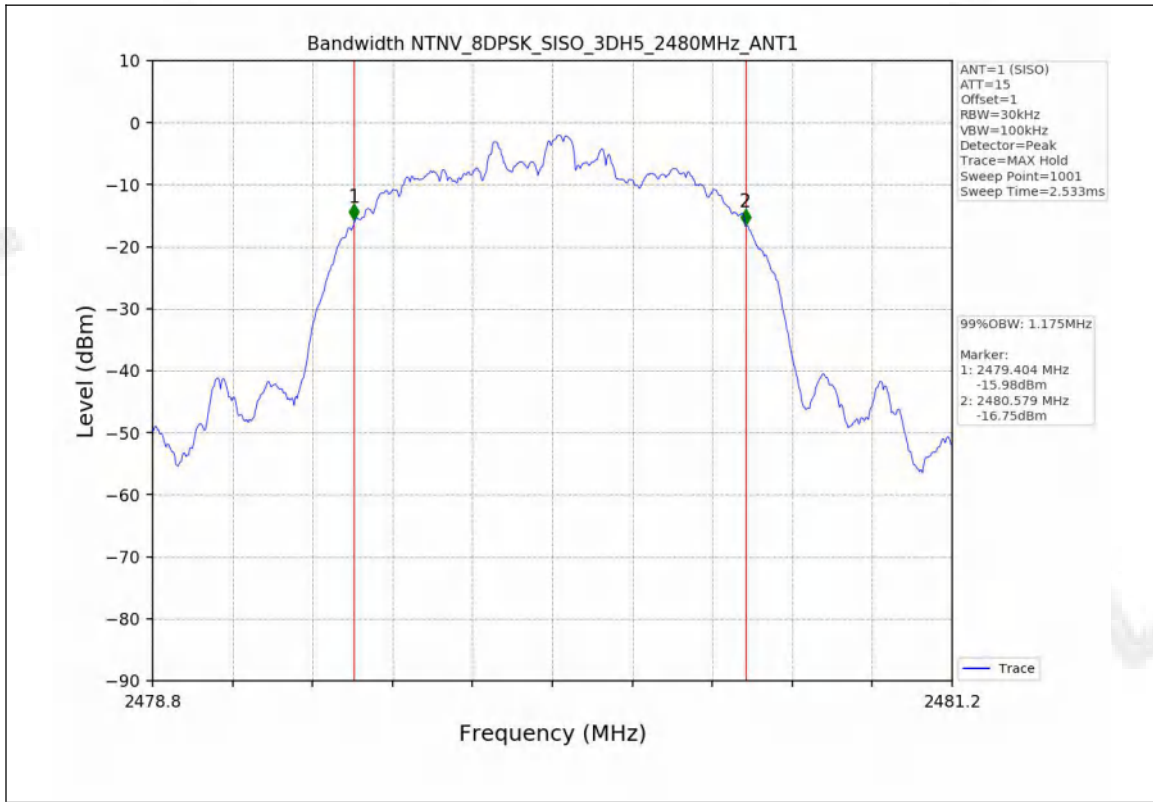










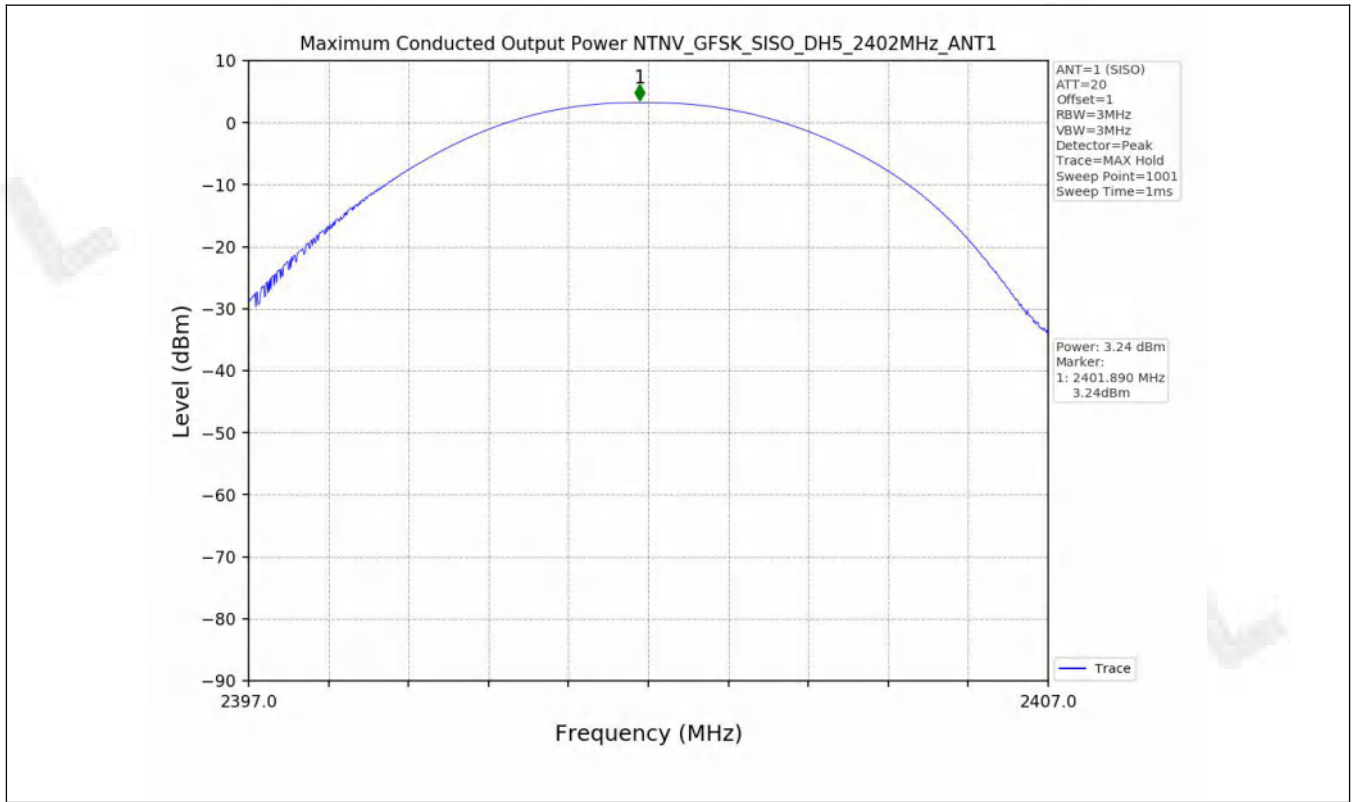


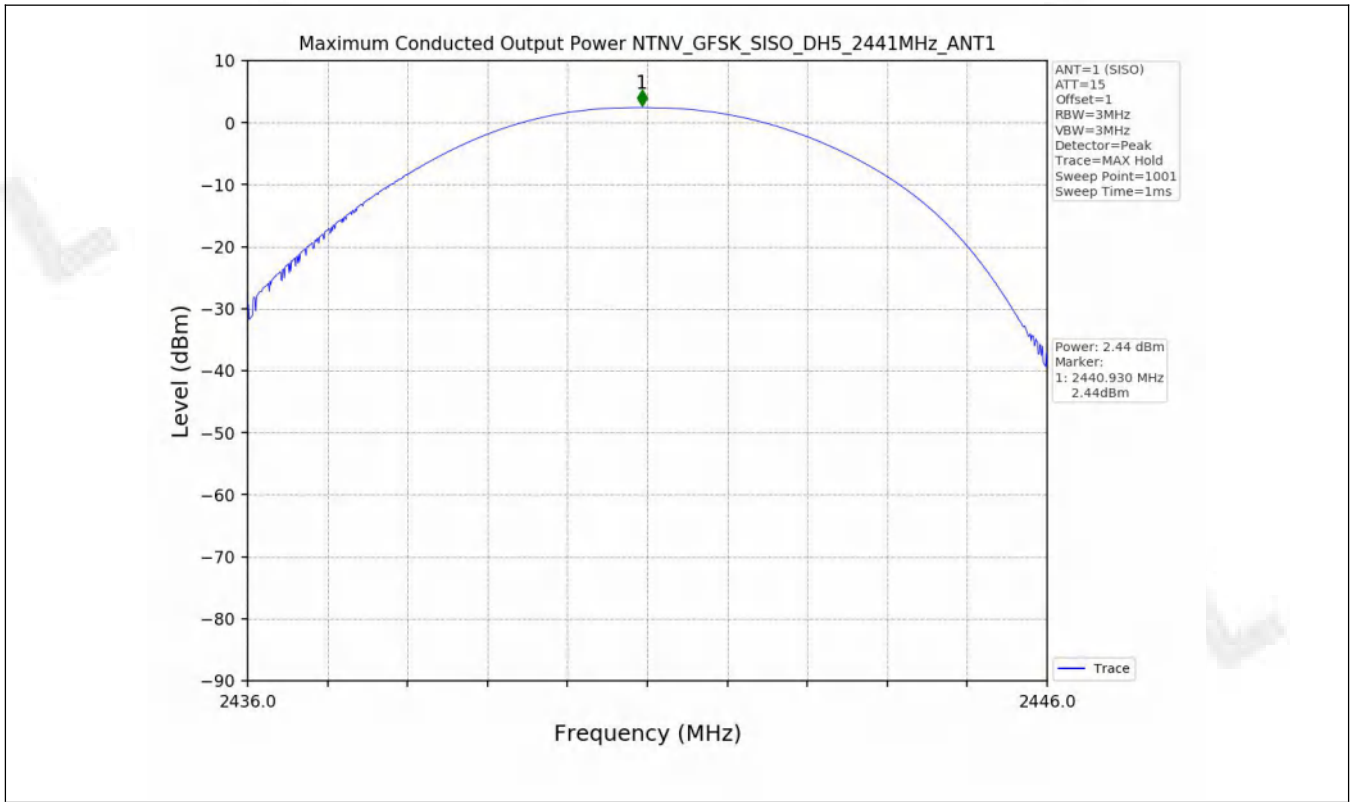
## 2. Maximum Conducted Output Power

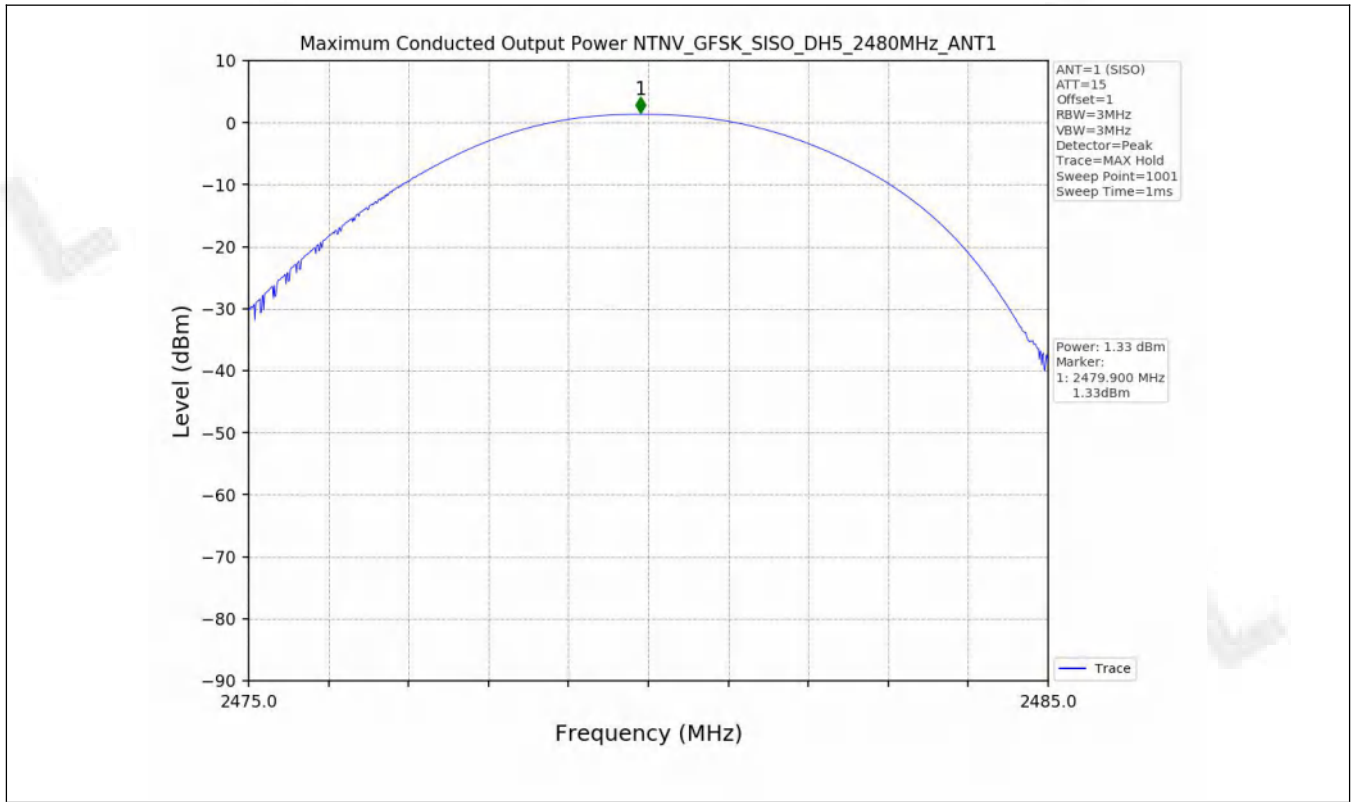
### 2.1 Test Result

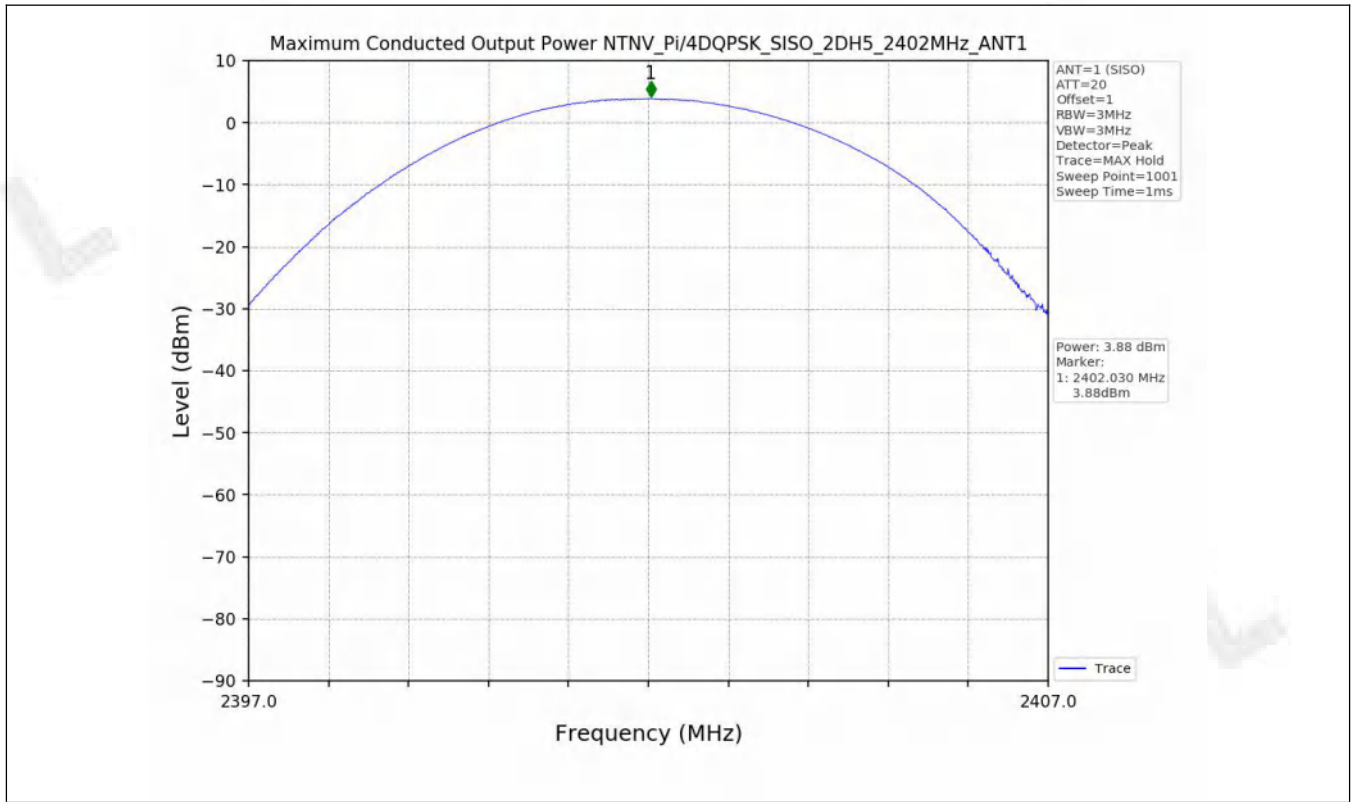
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	3.24	30	PASS
	2441	SISO	2.44	30	PASS
	2480	SISO	1.33	30	PASS
Pi/4DQPSK	2402	SISO	3.88	20.97	PASS
	2441	SISO	3.14	20.97	PASS
	2480	SISO	2.06	20.97	PASS
8DPSK	2402	SISO	4.36	20.97	PASS
	2441	SISO	3.69	20.97	PASS
	2480	SISO	2.64	20.97	PASS

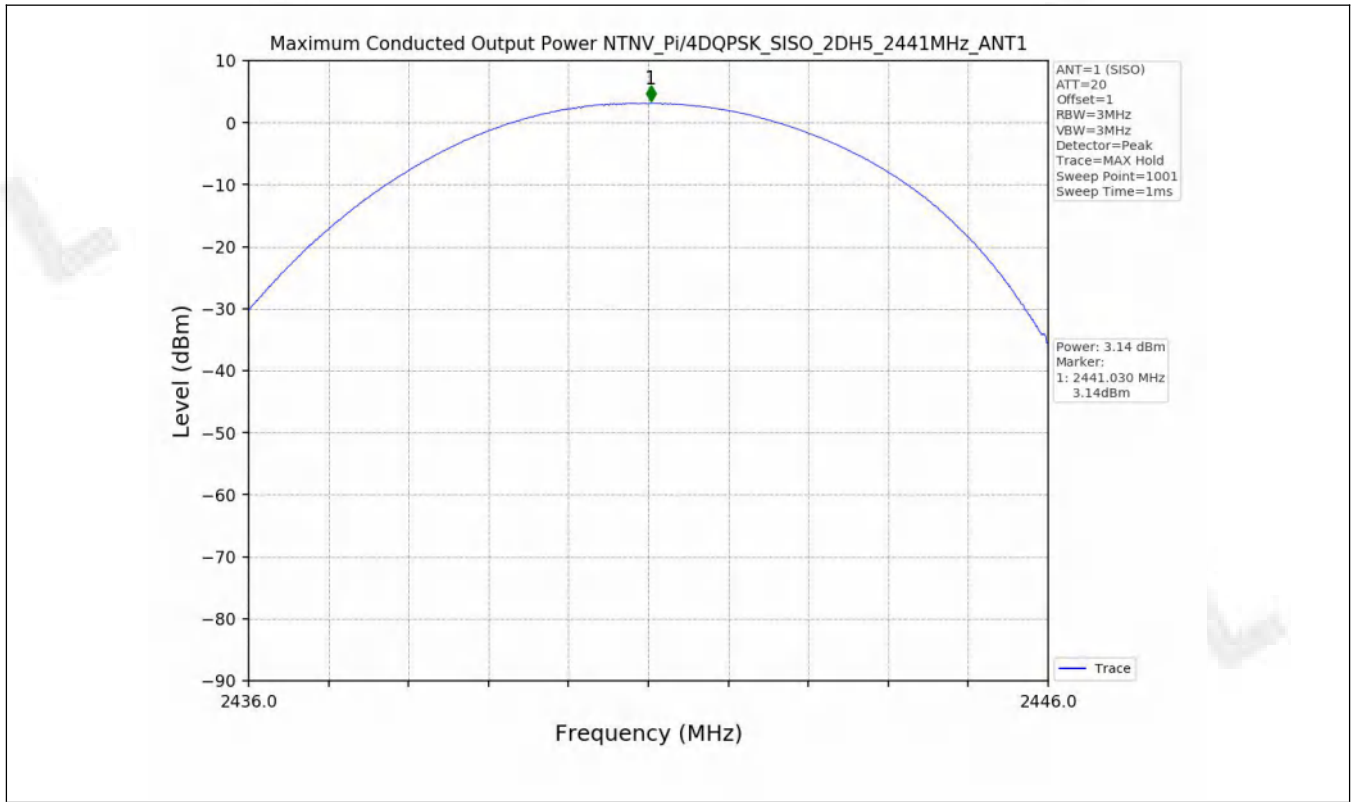
### 2.2 Test Graph





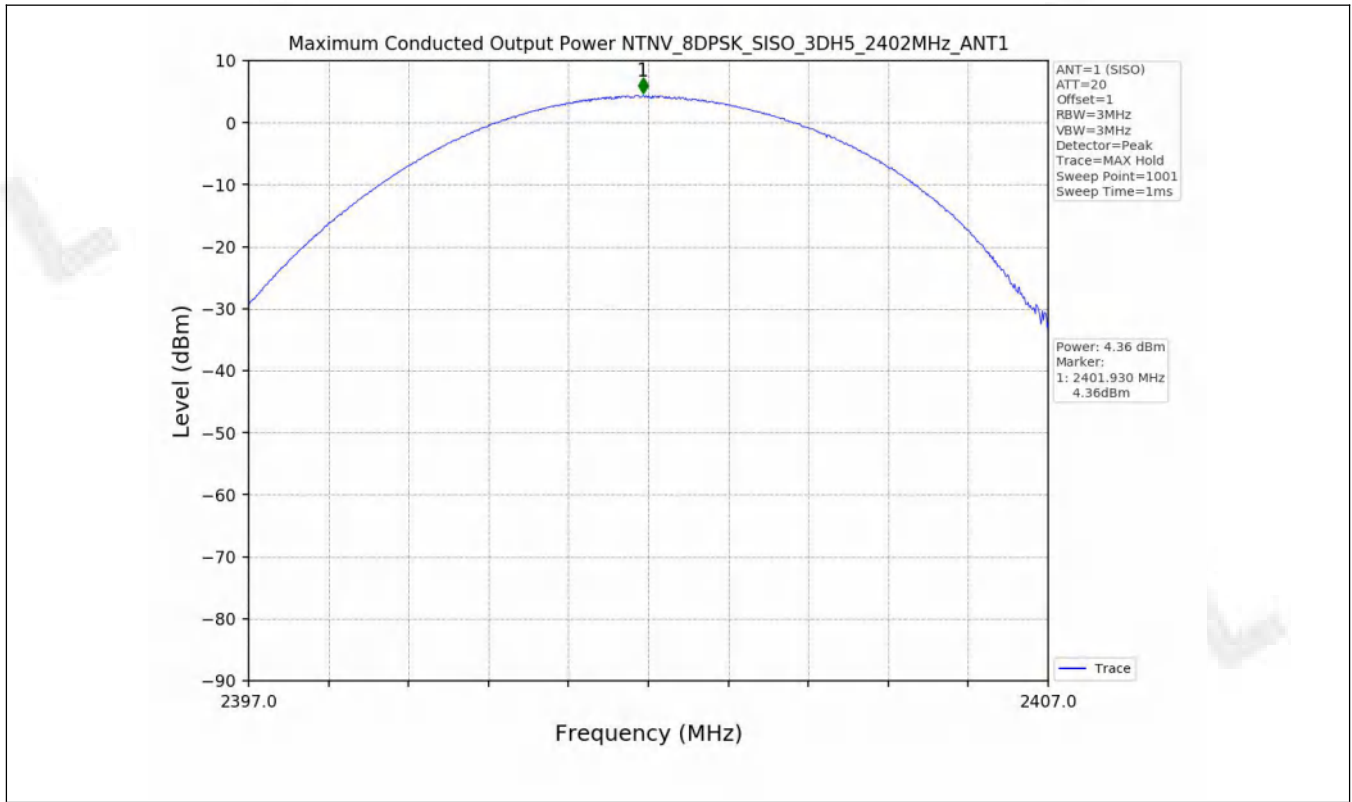




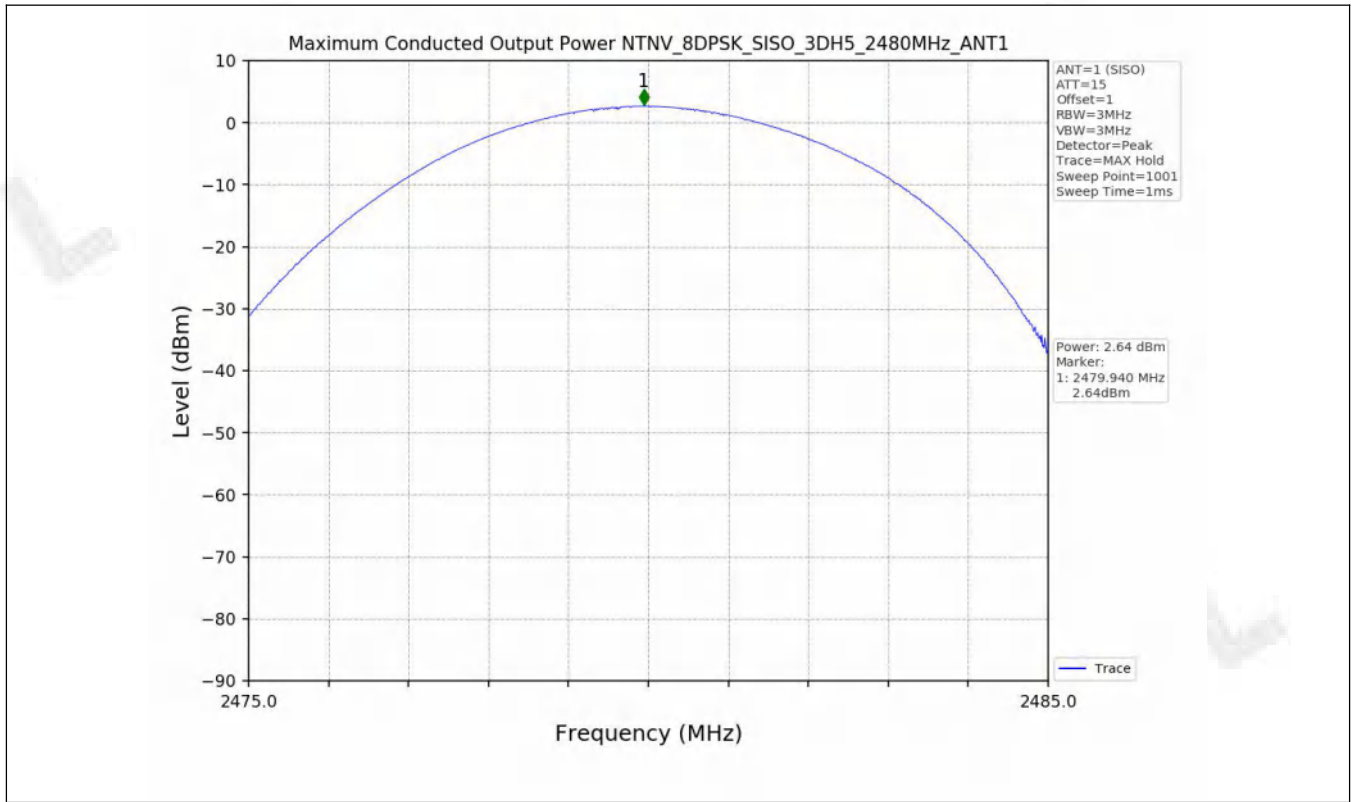










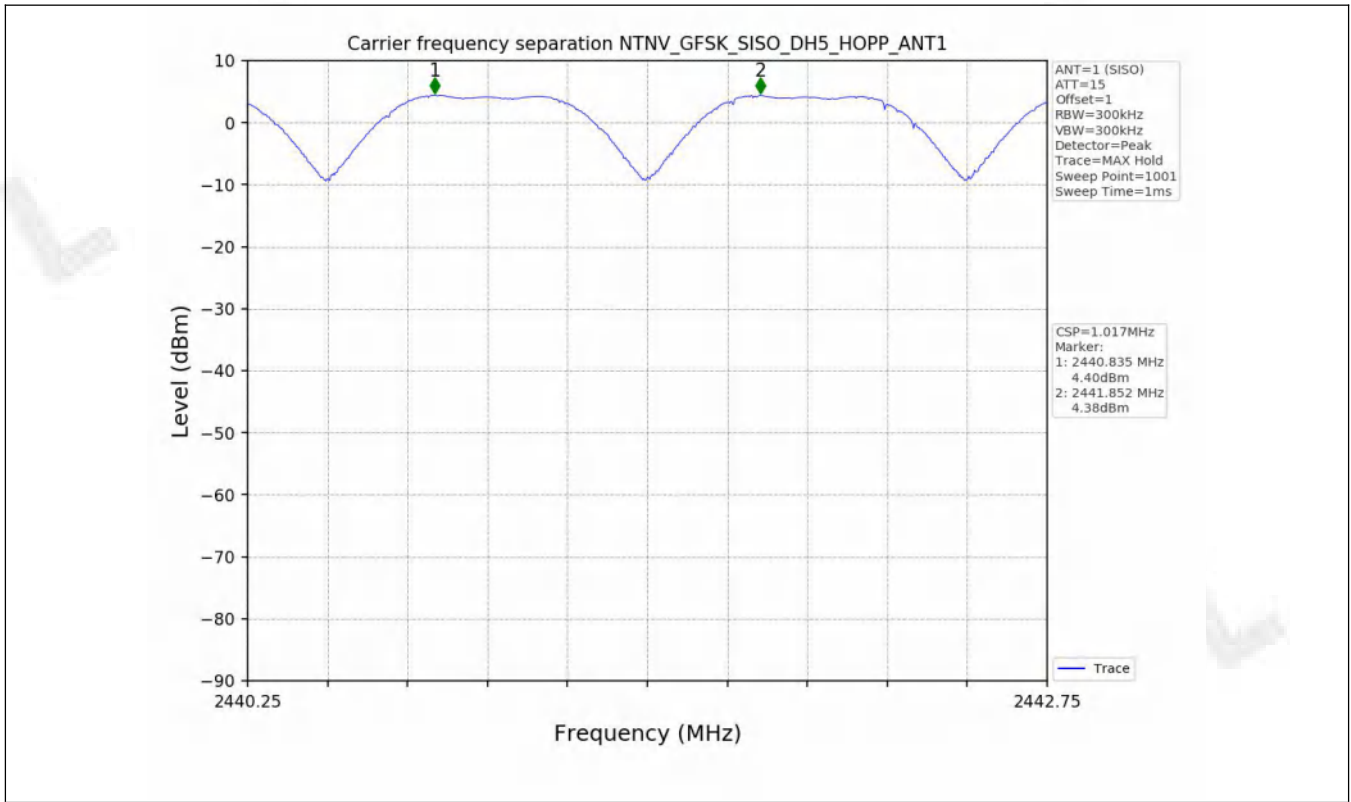


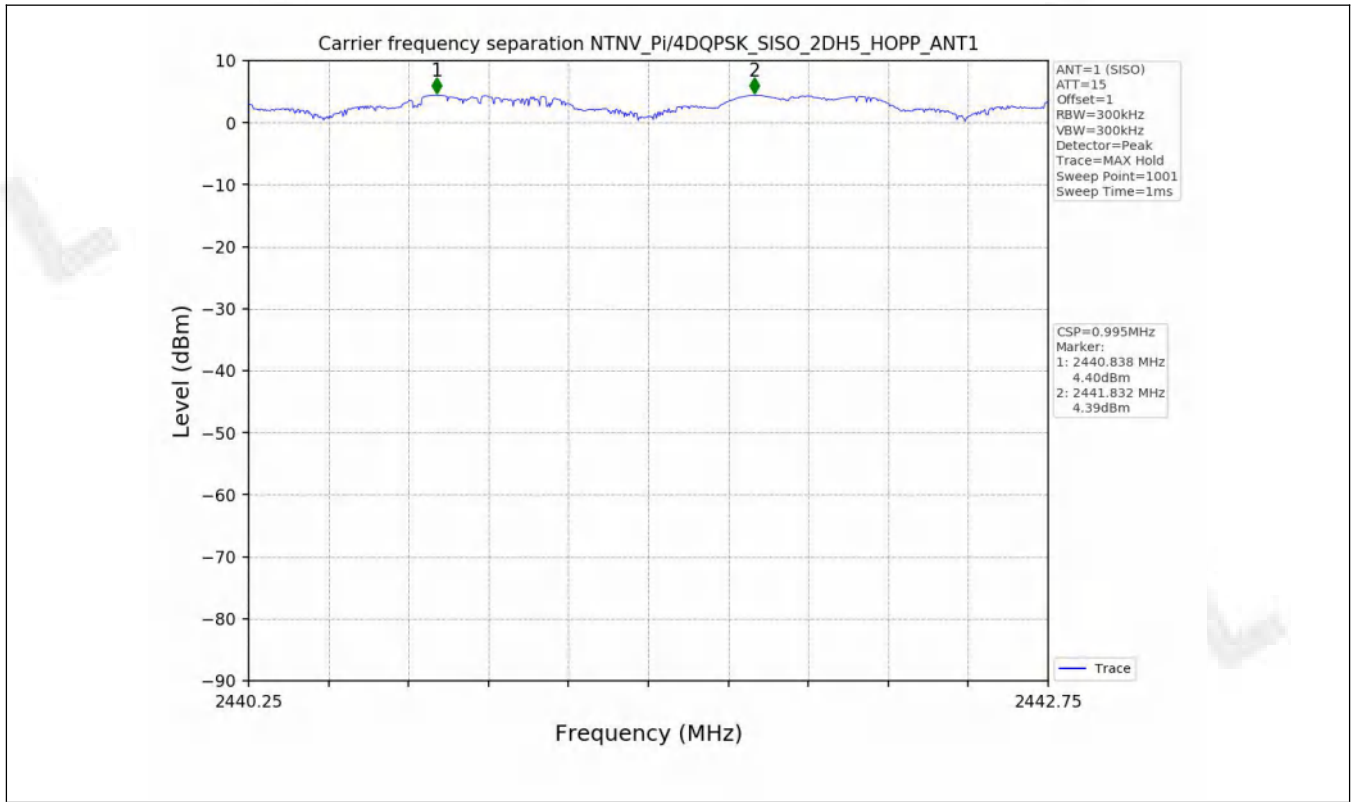
### 3. Carrier frequency separation

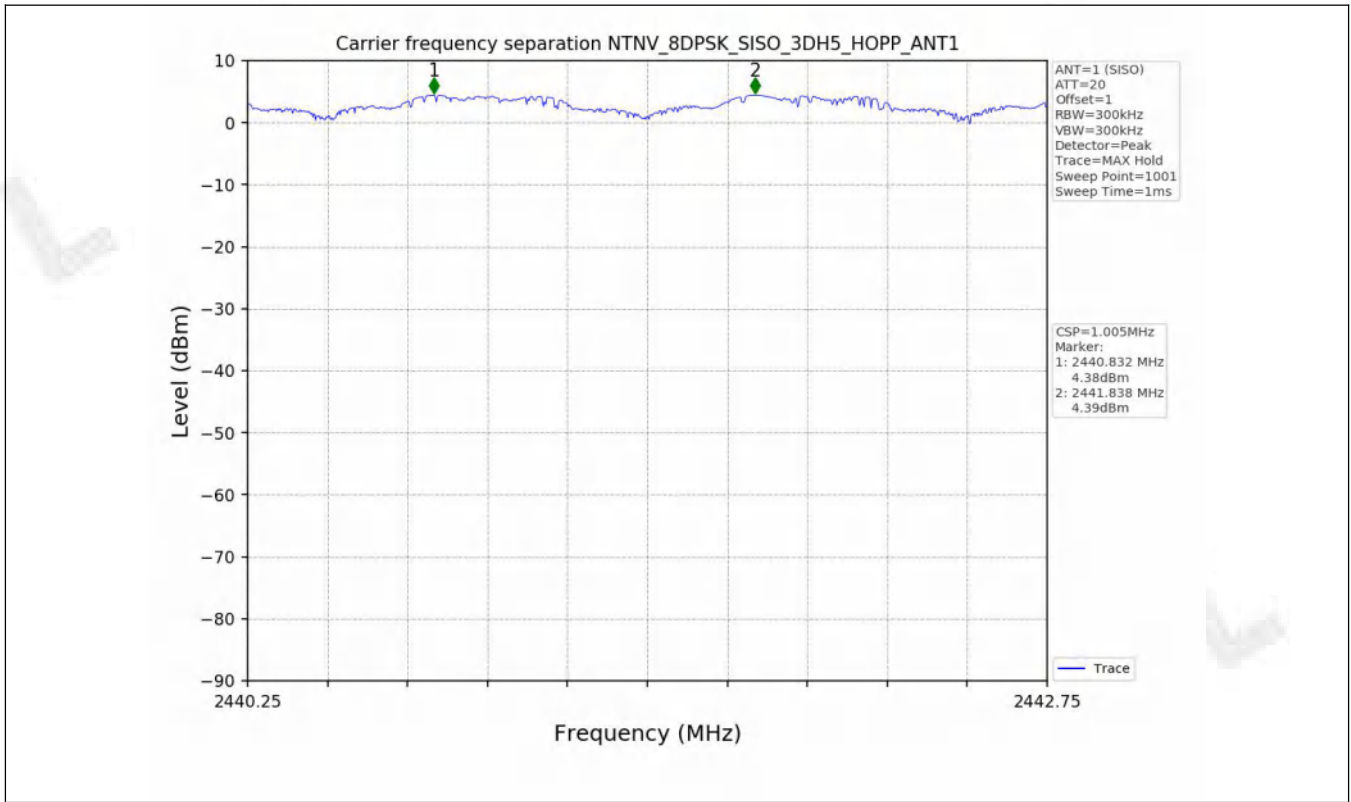
#### 3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.017	0.944	$\geq 0.944$	PASS
Pi/4DQPSK	SISO	1	0.995	1.278	$\geq 0.852$	PASS
8DPSK	SISO	1	1.005	1.298	$\geq 0.865$	PASS

#### 3.2 Test Graph





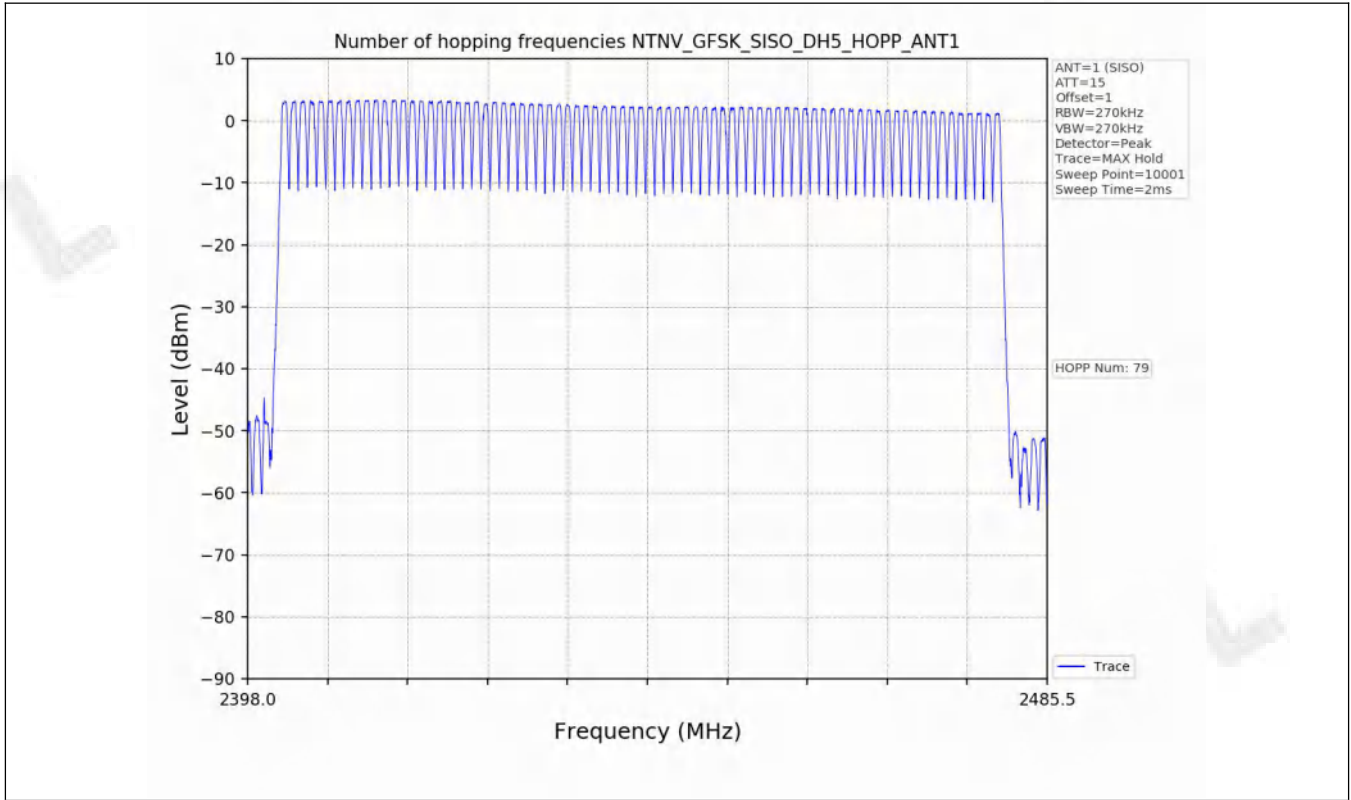


#### 4. Number of hopping frequencies

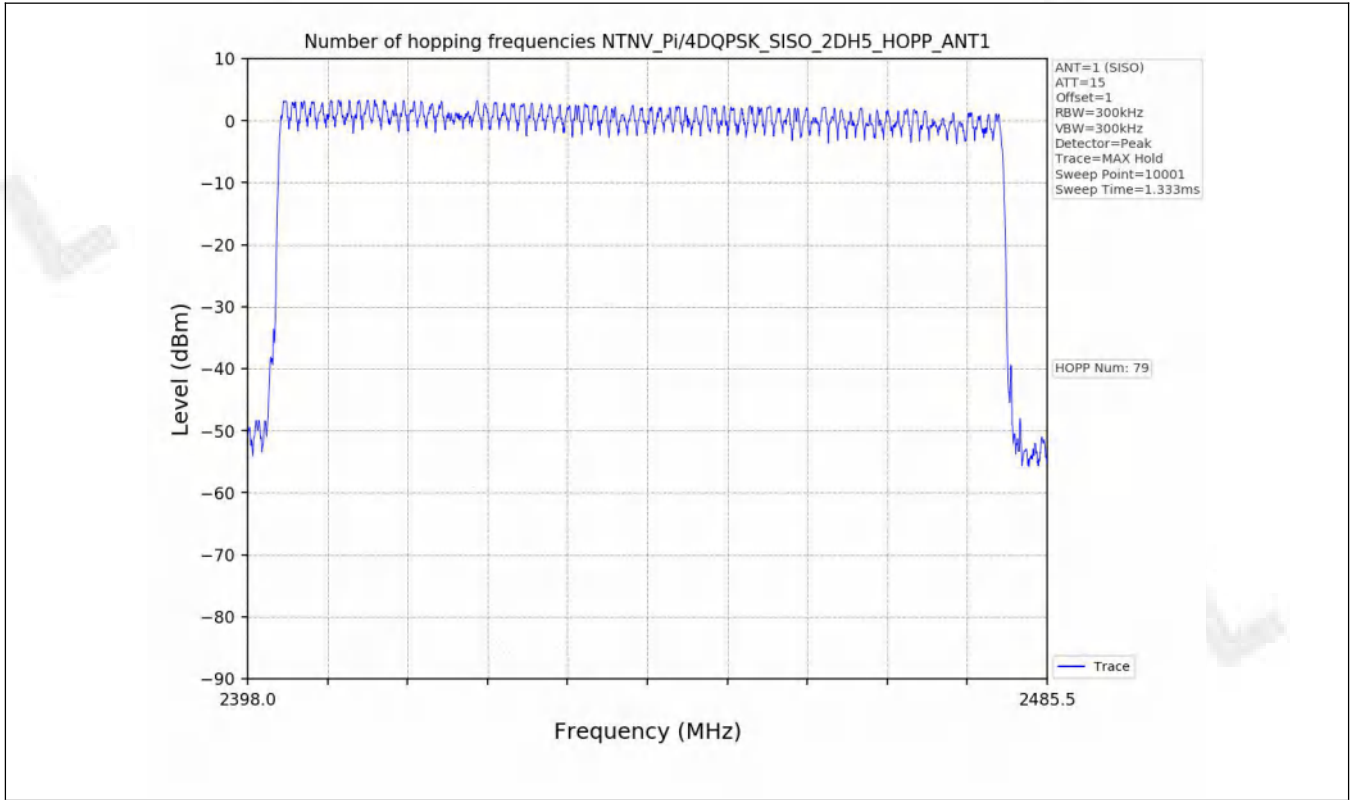
##### 4.1 Test Result

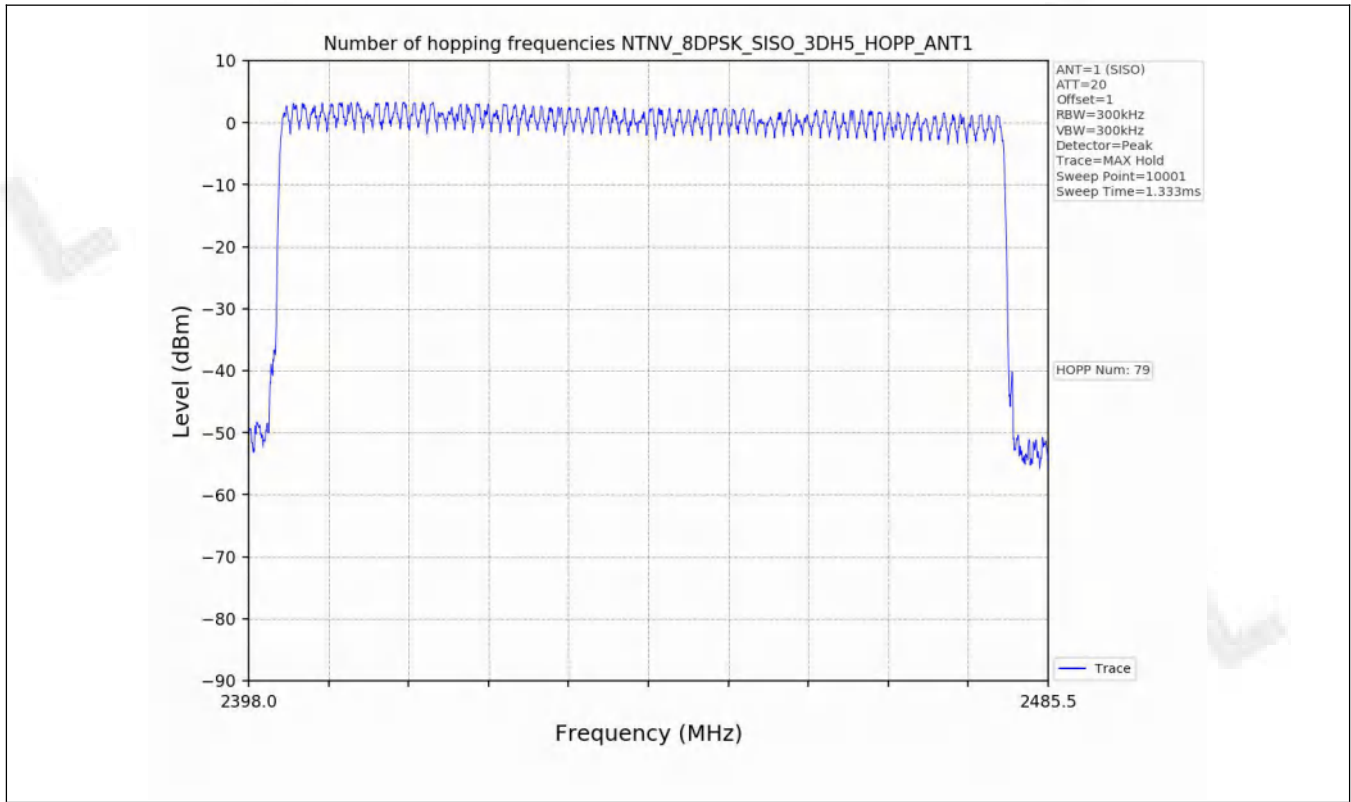
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥15	PASS
Pi/4DQPSK	SISO	1	79	≥15	PASS
8DPSK	SISO	1	79	≥15	PASS

##### 4.2 Test Graph







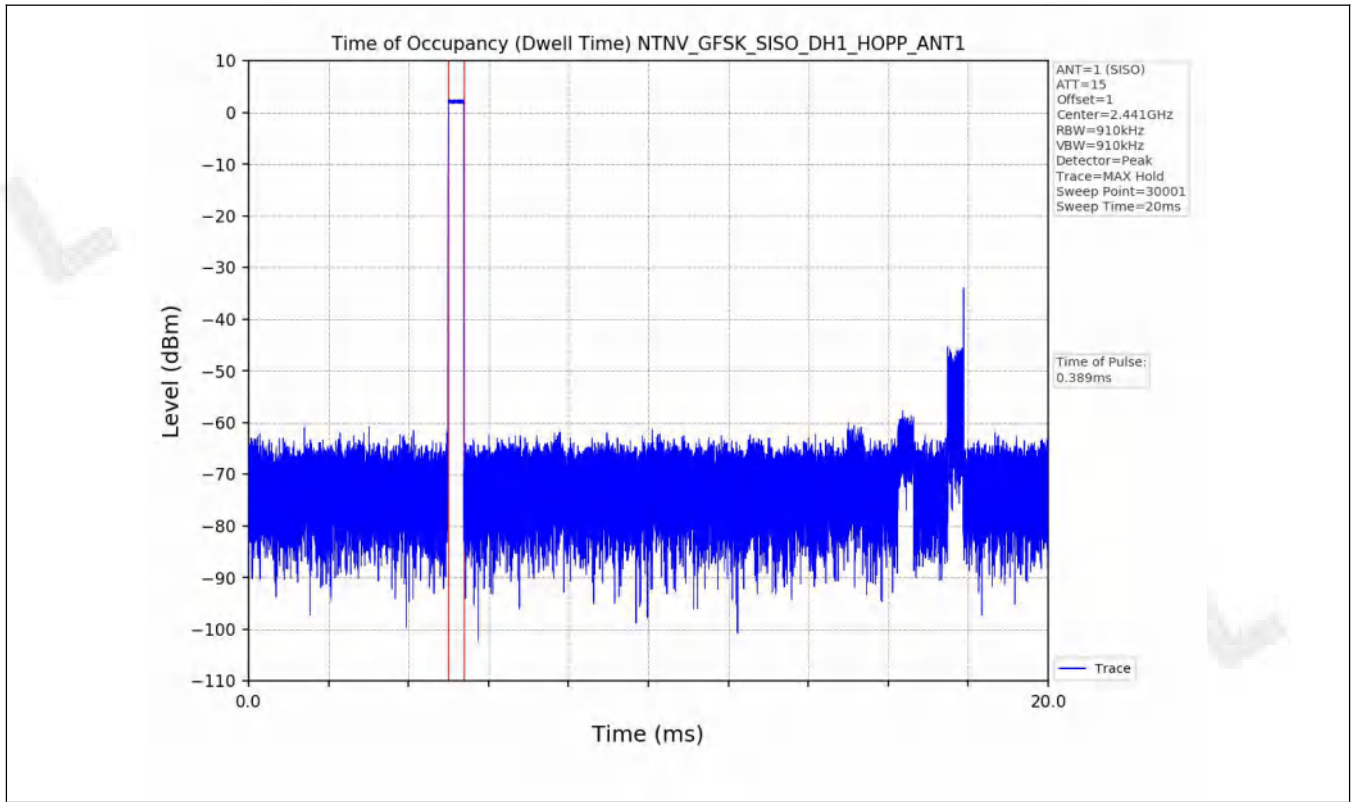


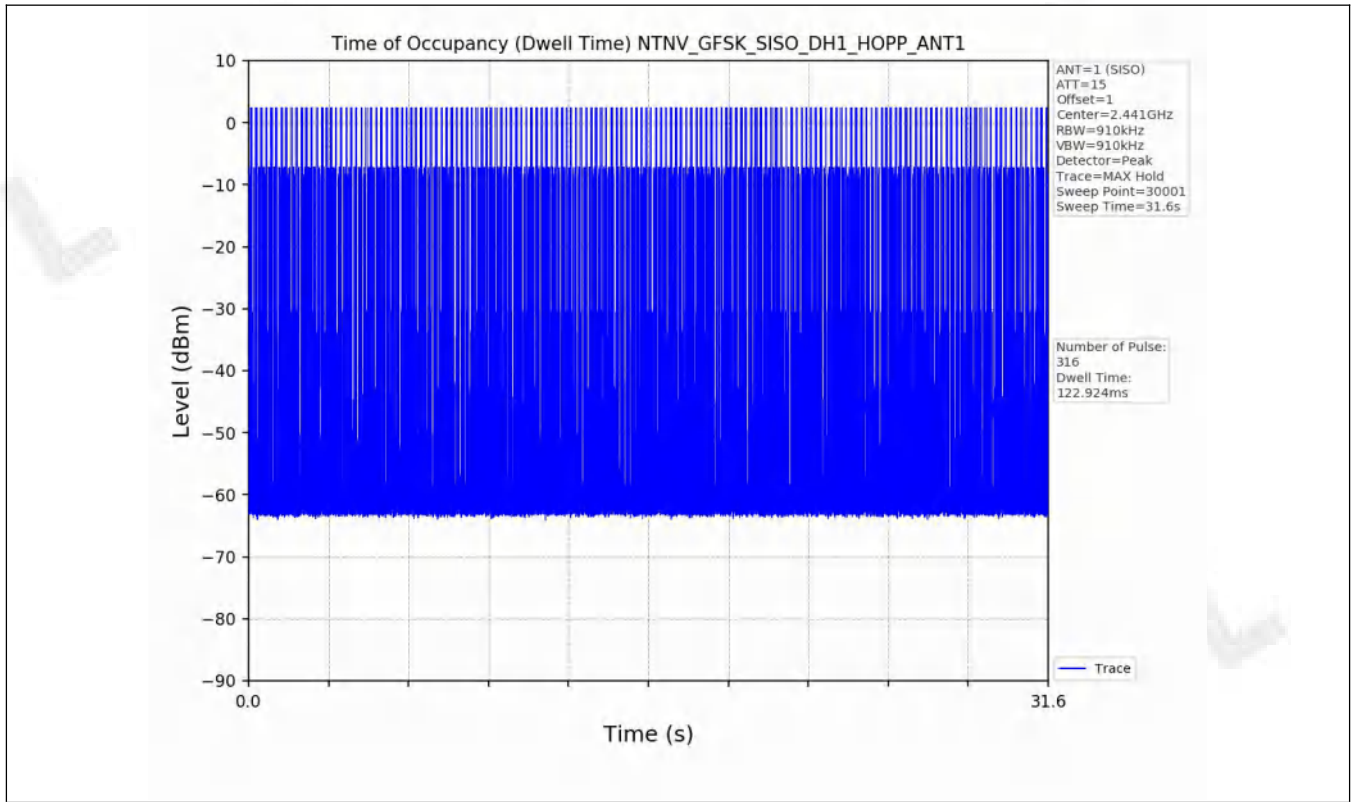
## 5. Time of Occupancy (Dwell Time)

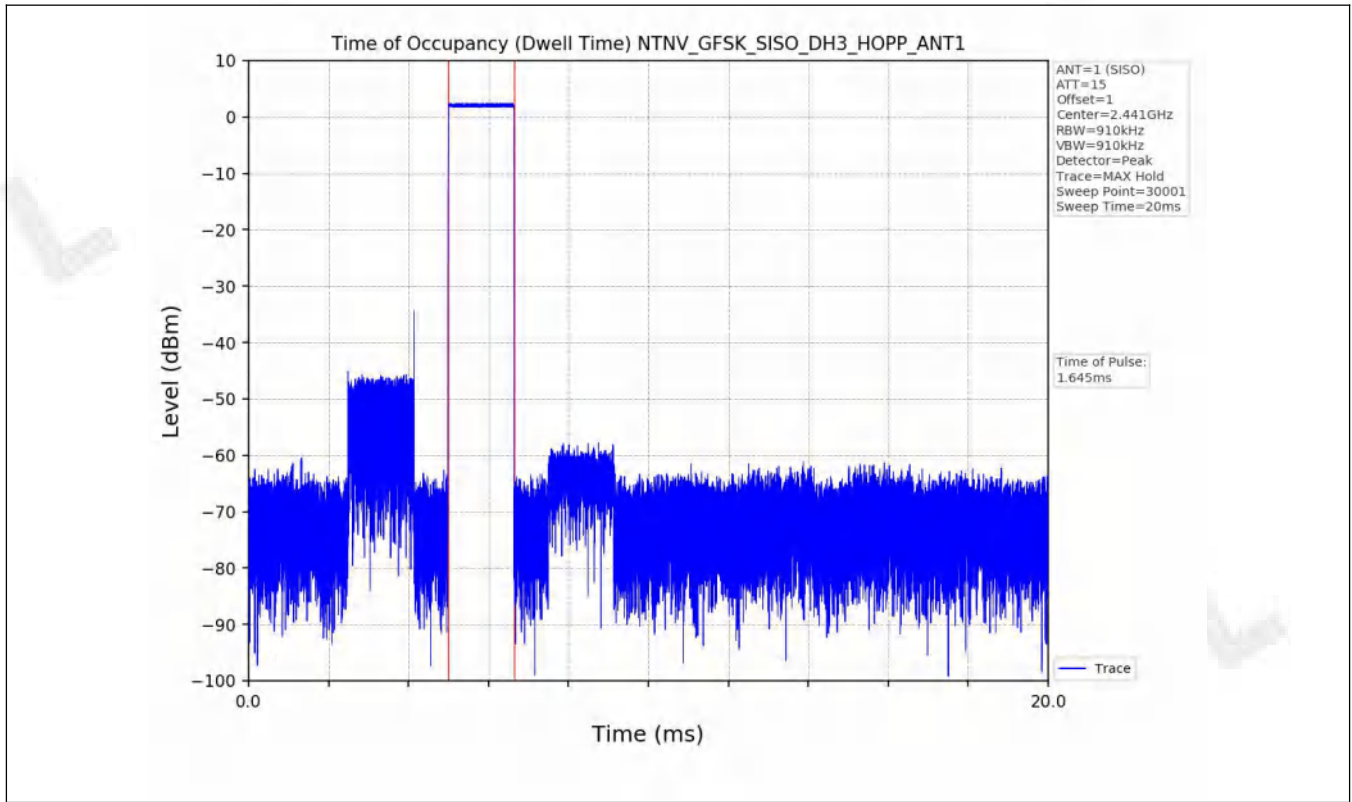
### 5.1 Test Result

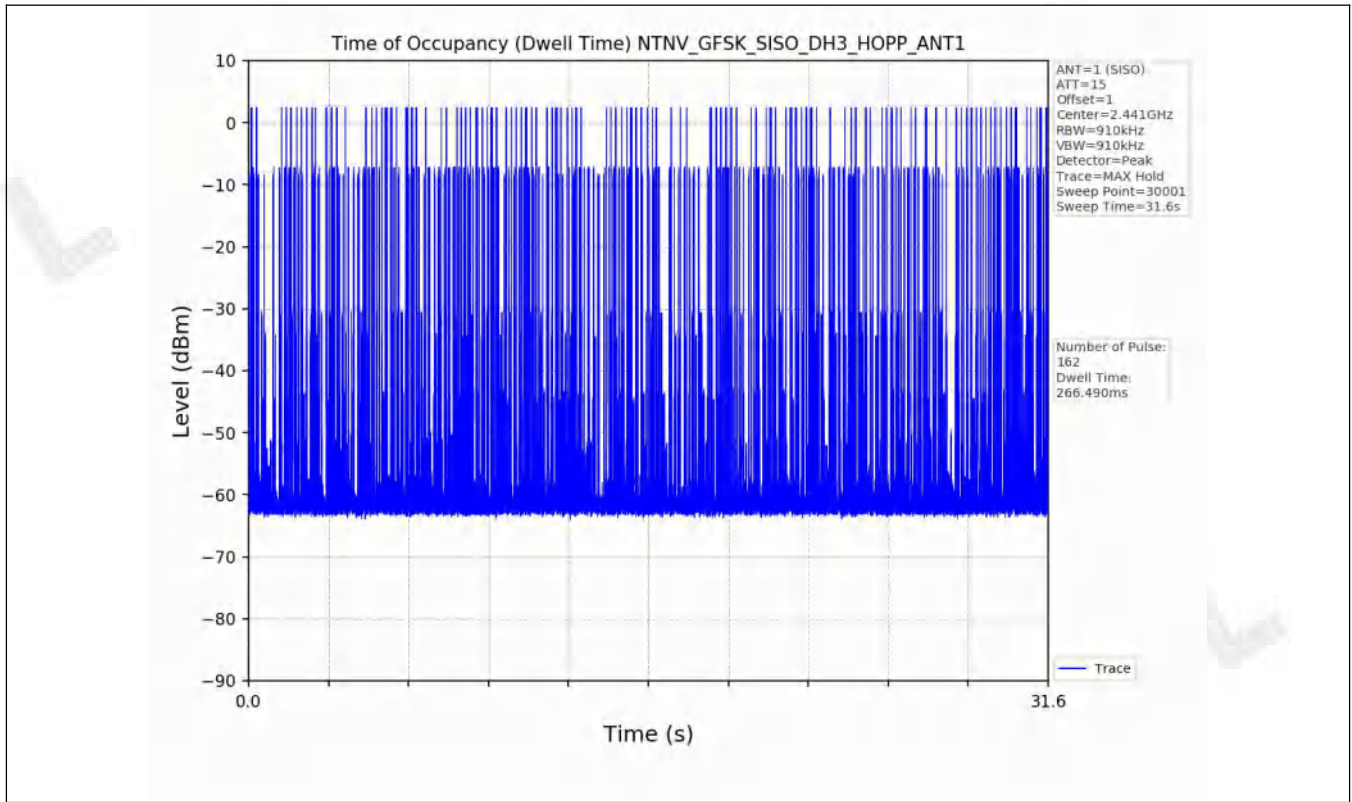
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.389	31.6	316	122.924	≤400	PASS
	DH3	SISO	1	1.645	31.6	162	266.490	≤400	PASS
	DH5	SISO	1	2.824	31.6	97	273.928	≤400	PASS
Pi/4DQPSK	2DH1	SISO	1	0.408	31.6	317	129.336	≤400	PASS
	2DH3	SISO	1	1.661	31.6	163	270.743	≤400	PASS
	2DH5	SISO	1	2.902	31.6	112	325.024	≤400	PASS
8DPSK	3DH1	SISO	1	0.408	31.6	316	128.928	≤400	PASS
	3DH3	SISO	1	1.660	31.6	159	263.940	≤400	PASS
	3DH5	SISO	1	2.844	31.6	121	344.124	≤400	PASS

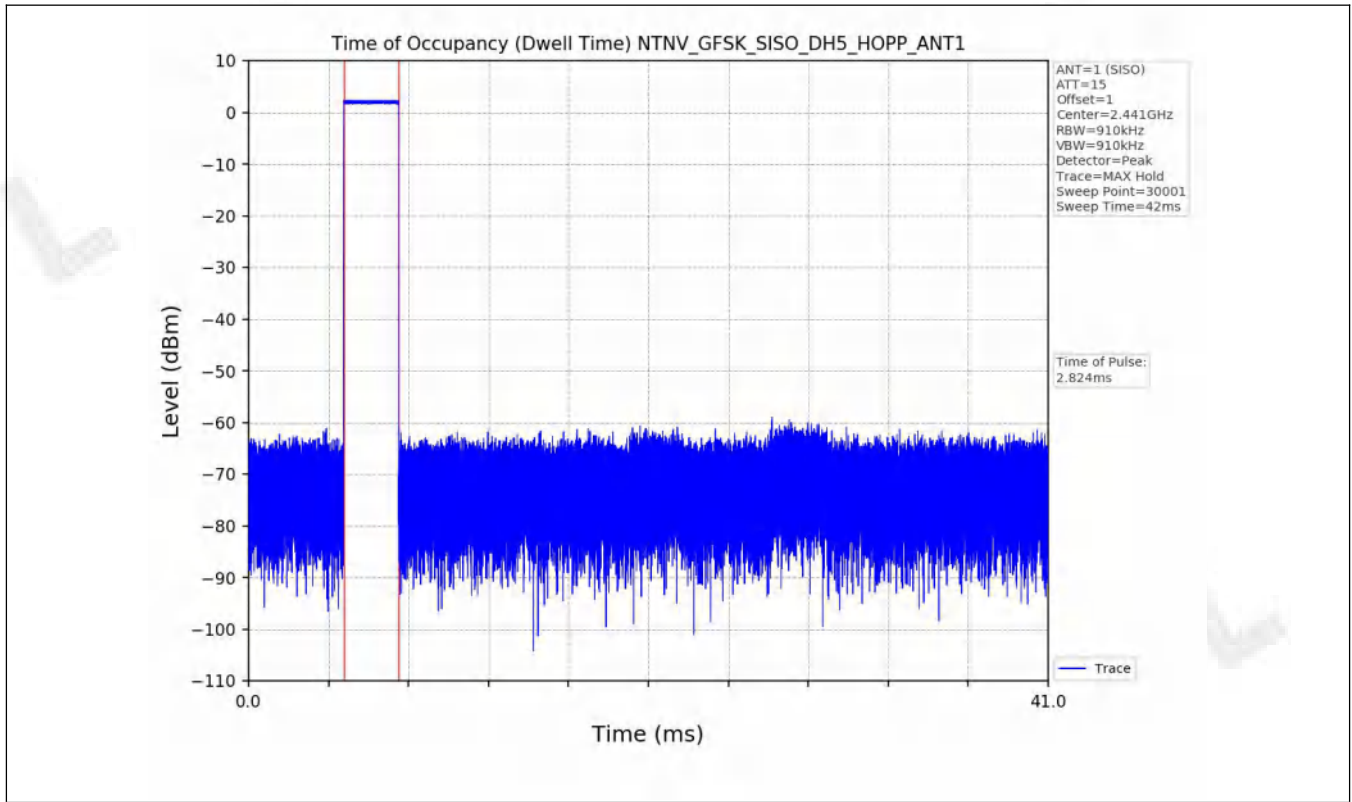
### 5.2 Test Graph

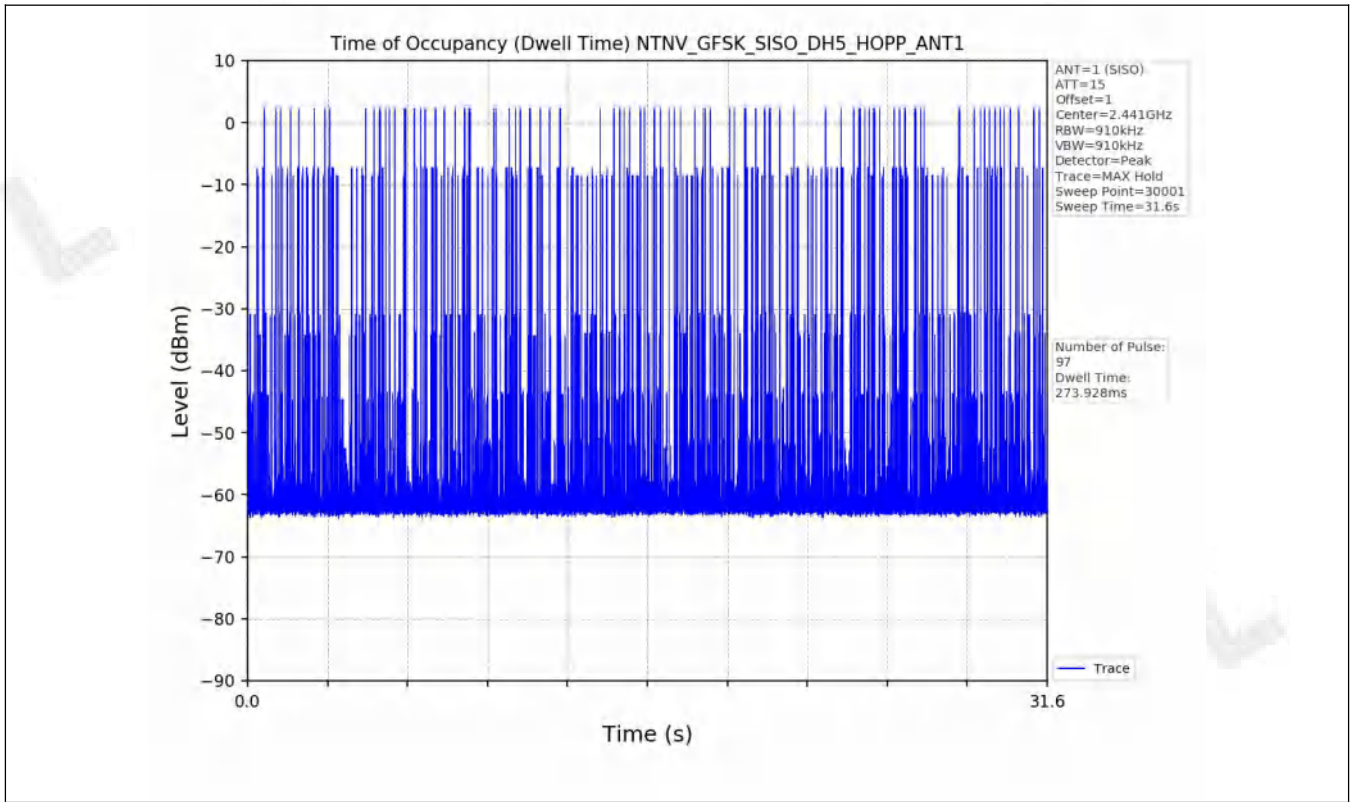




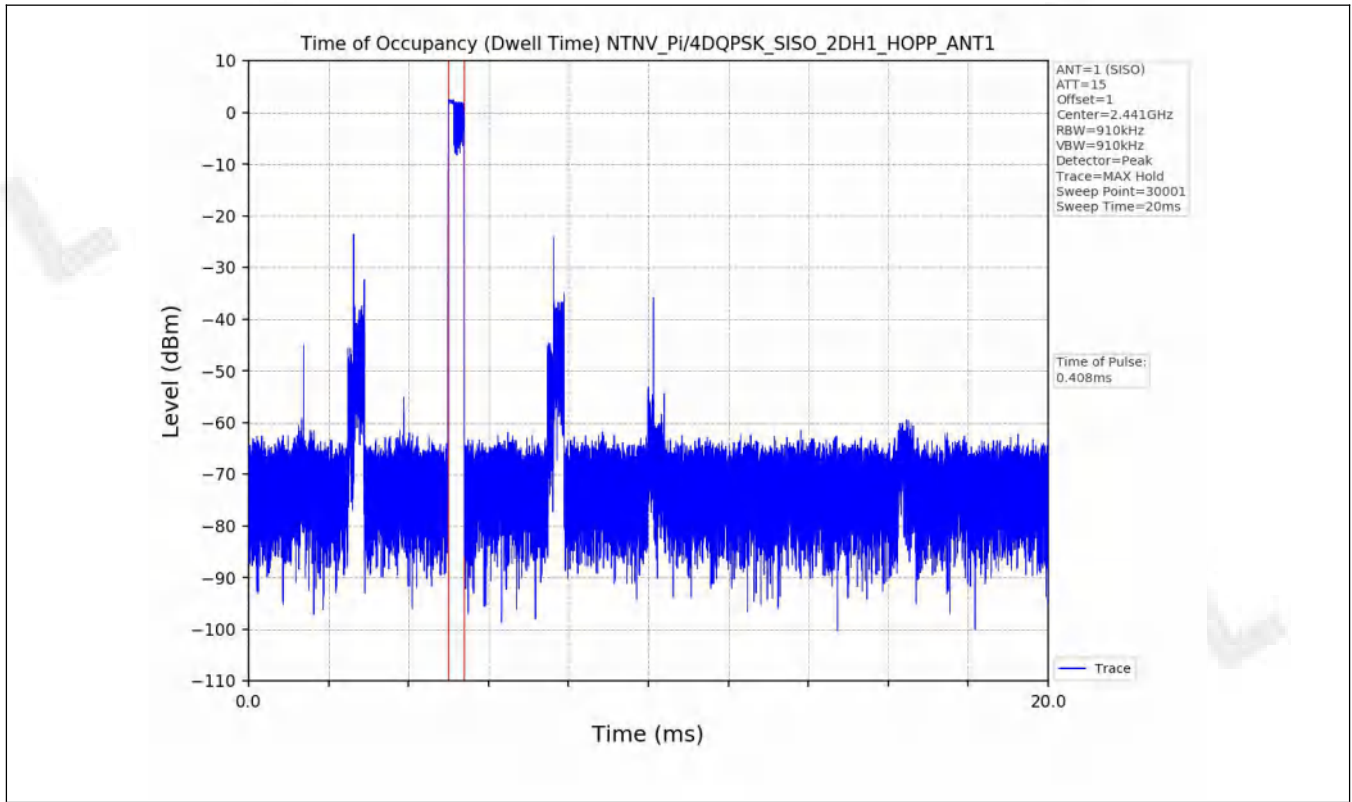


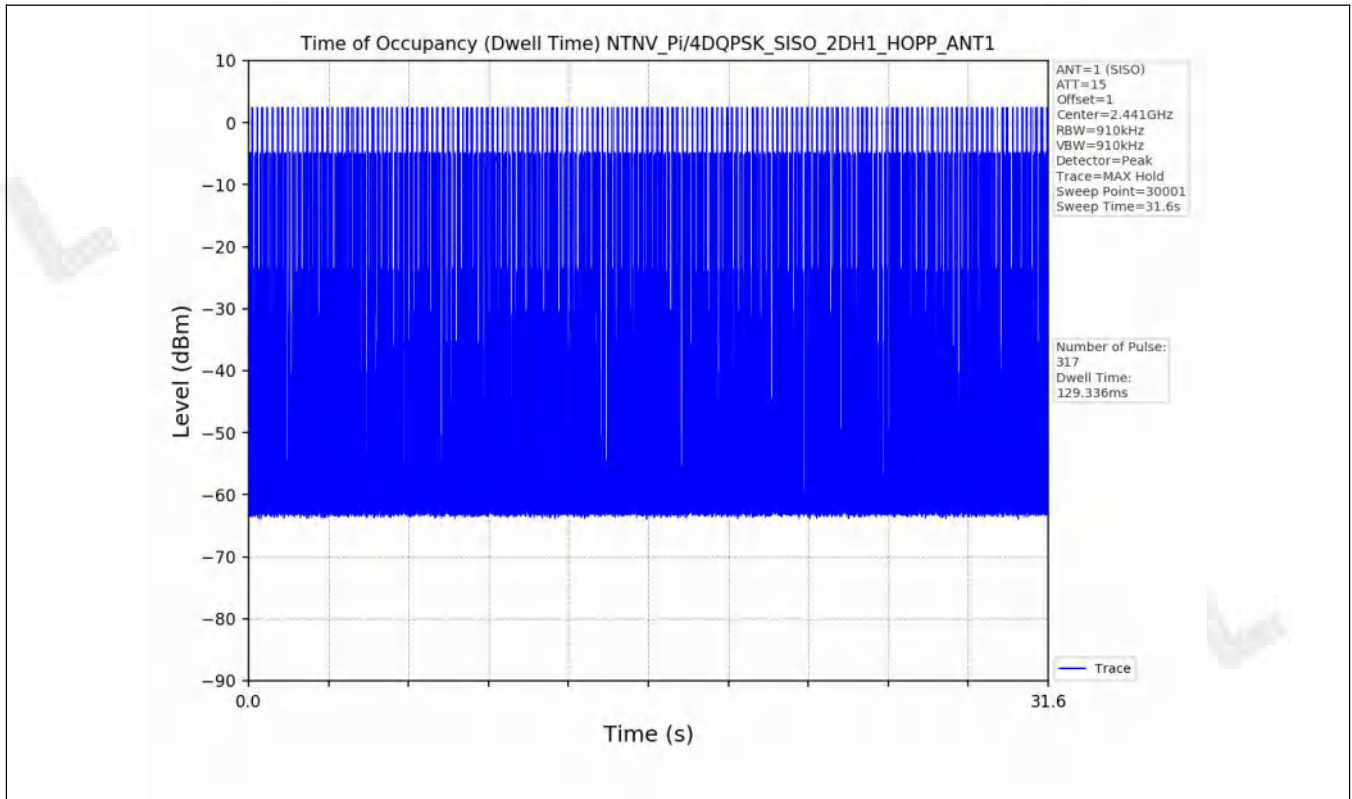


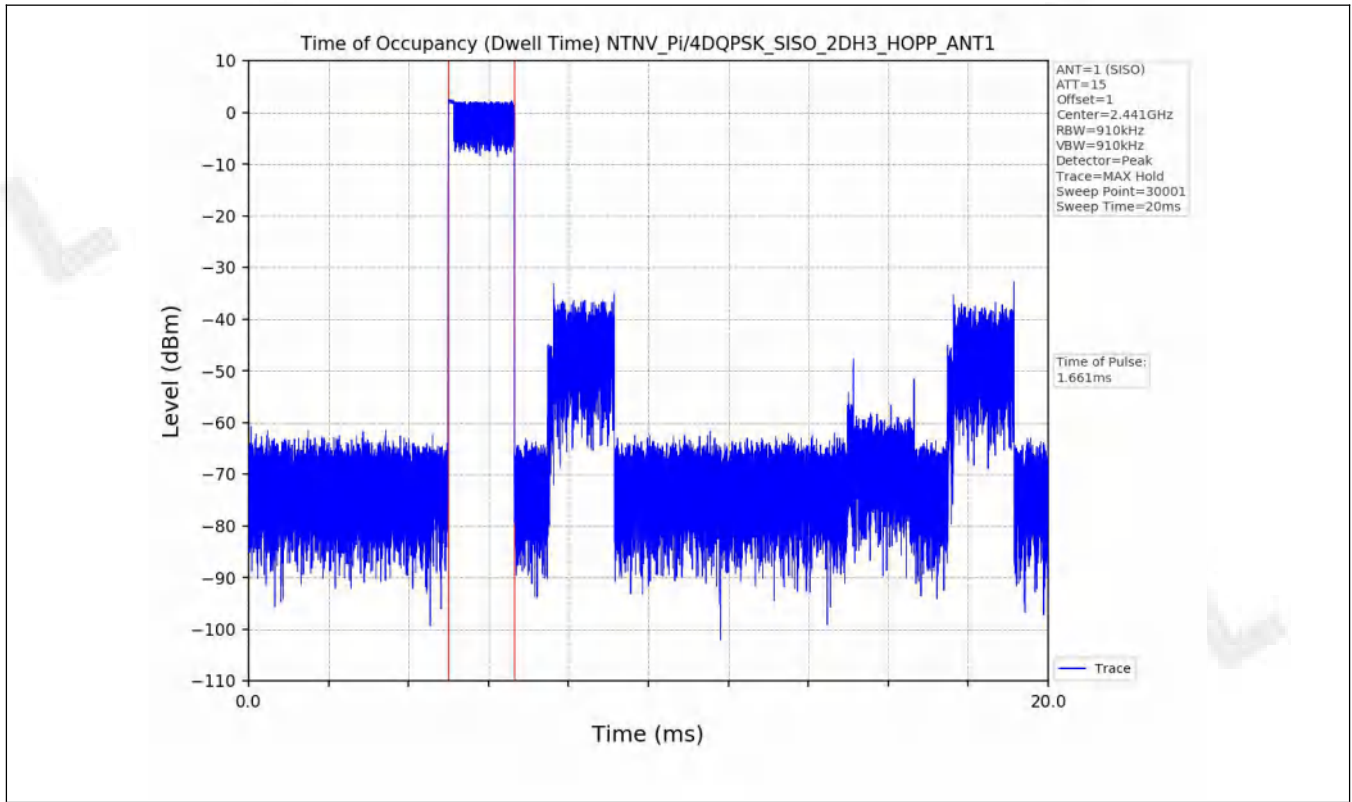


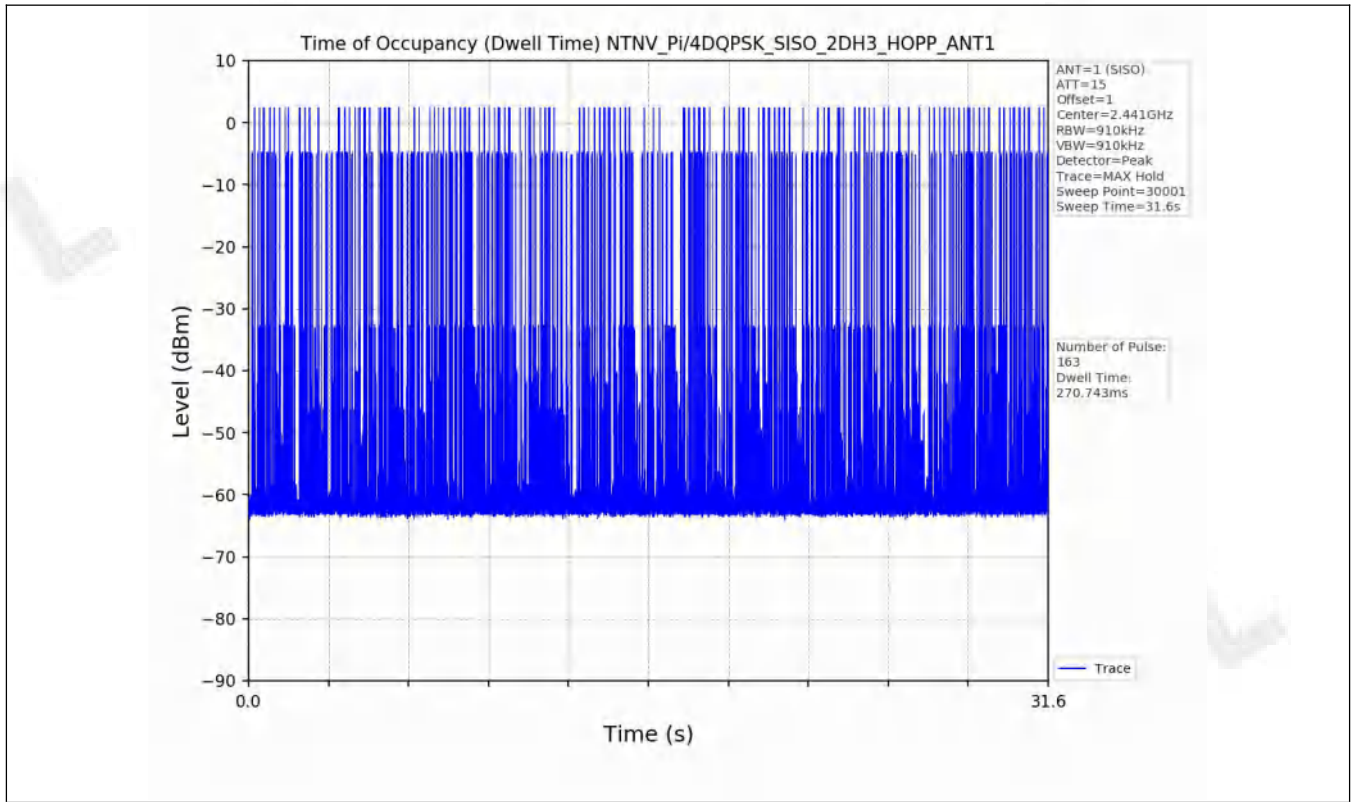


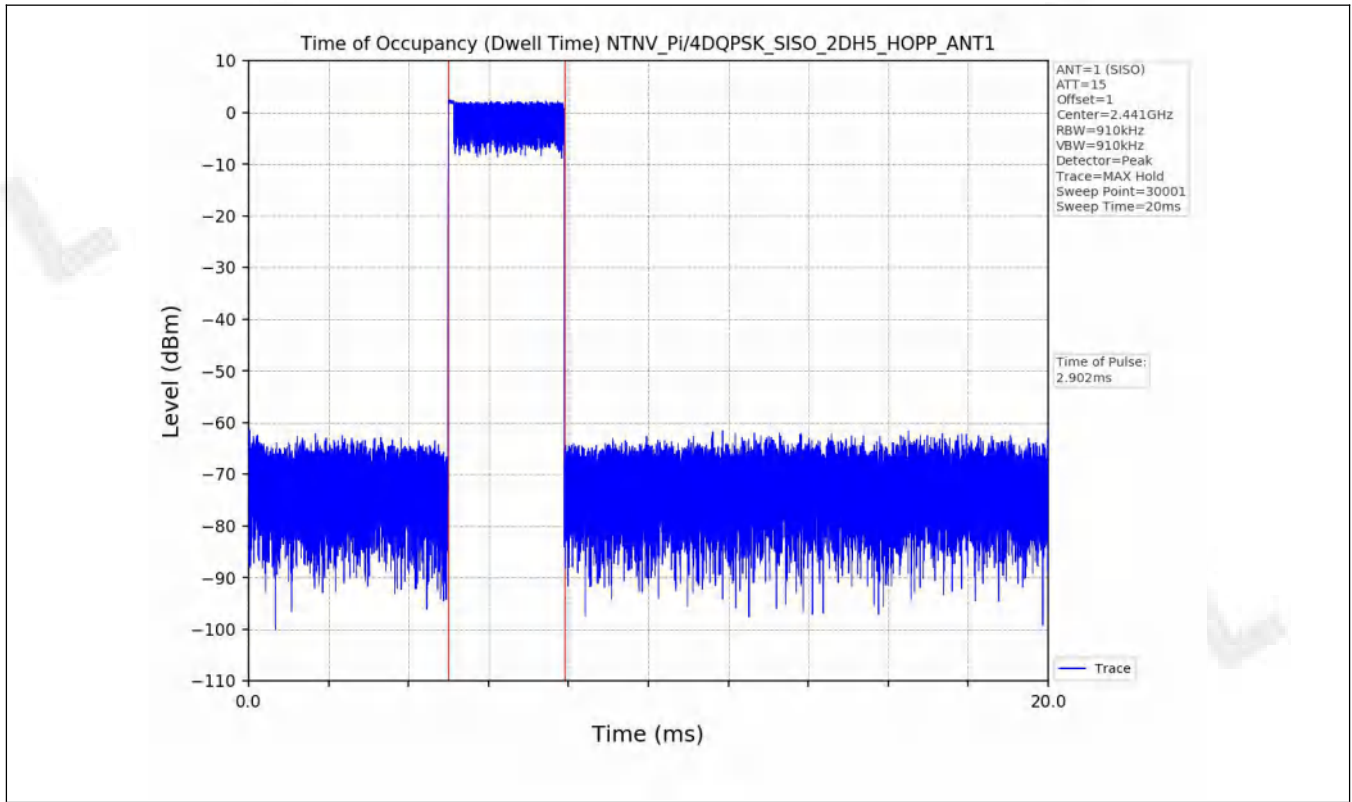


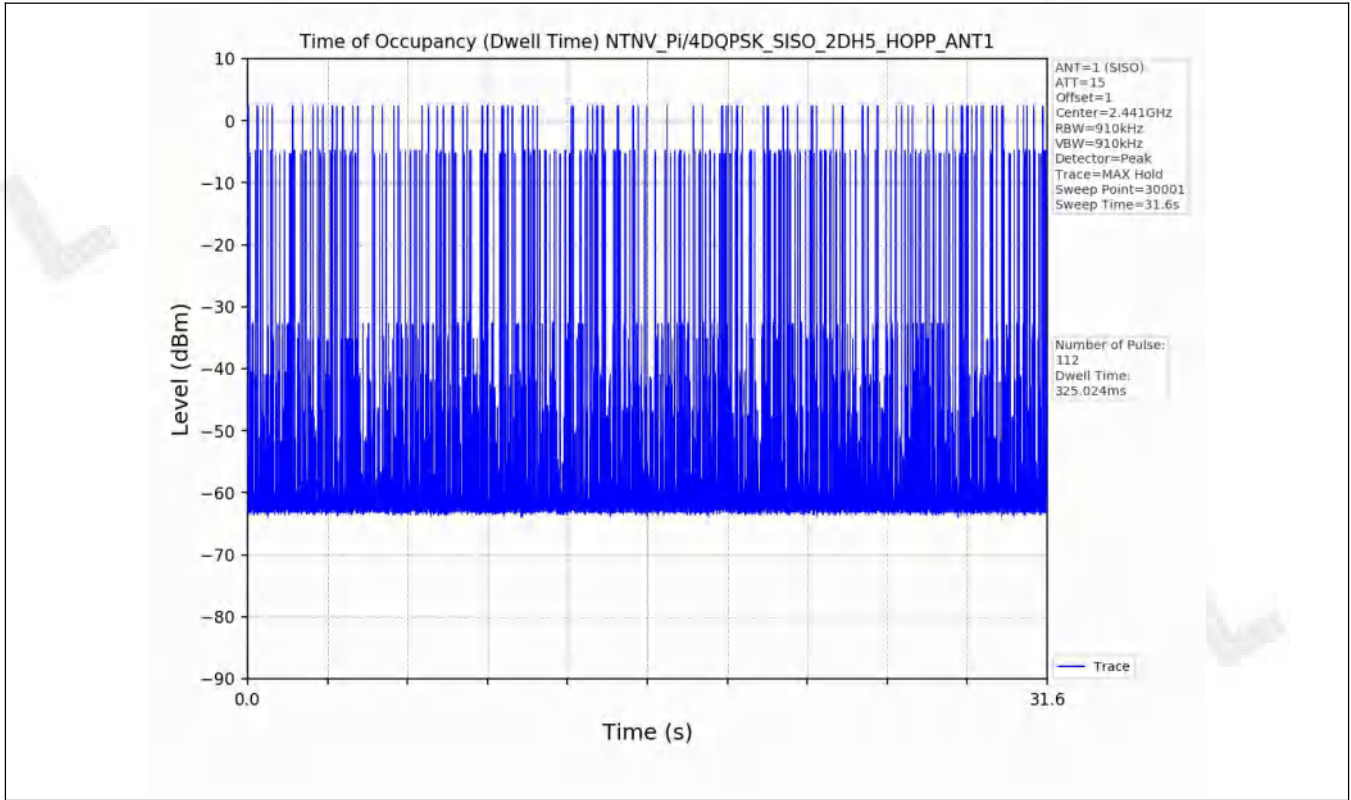


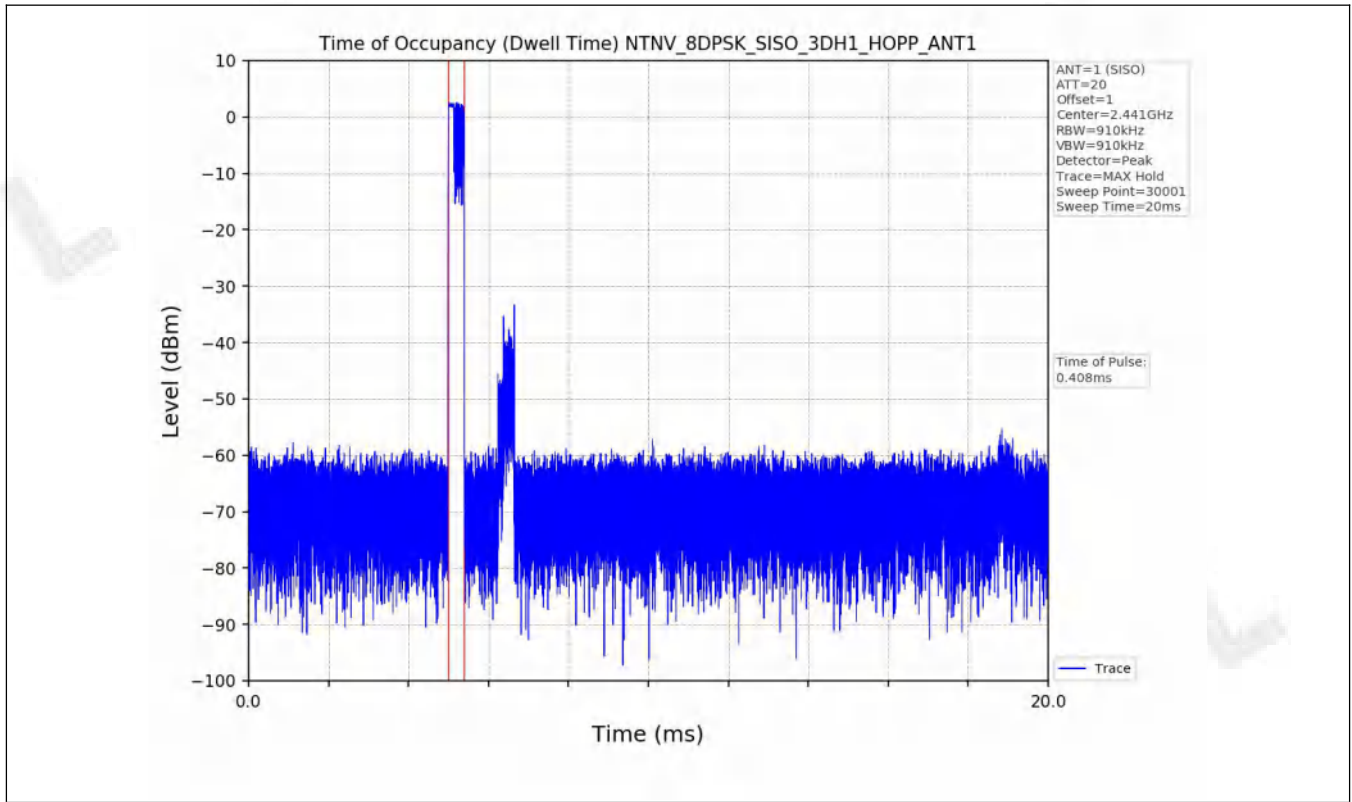


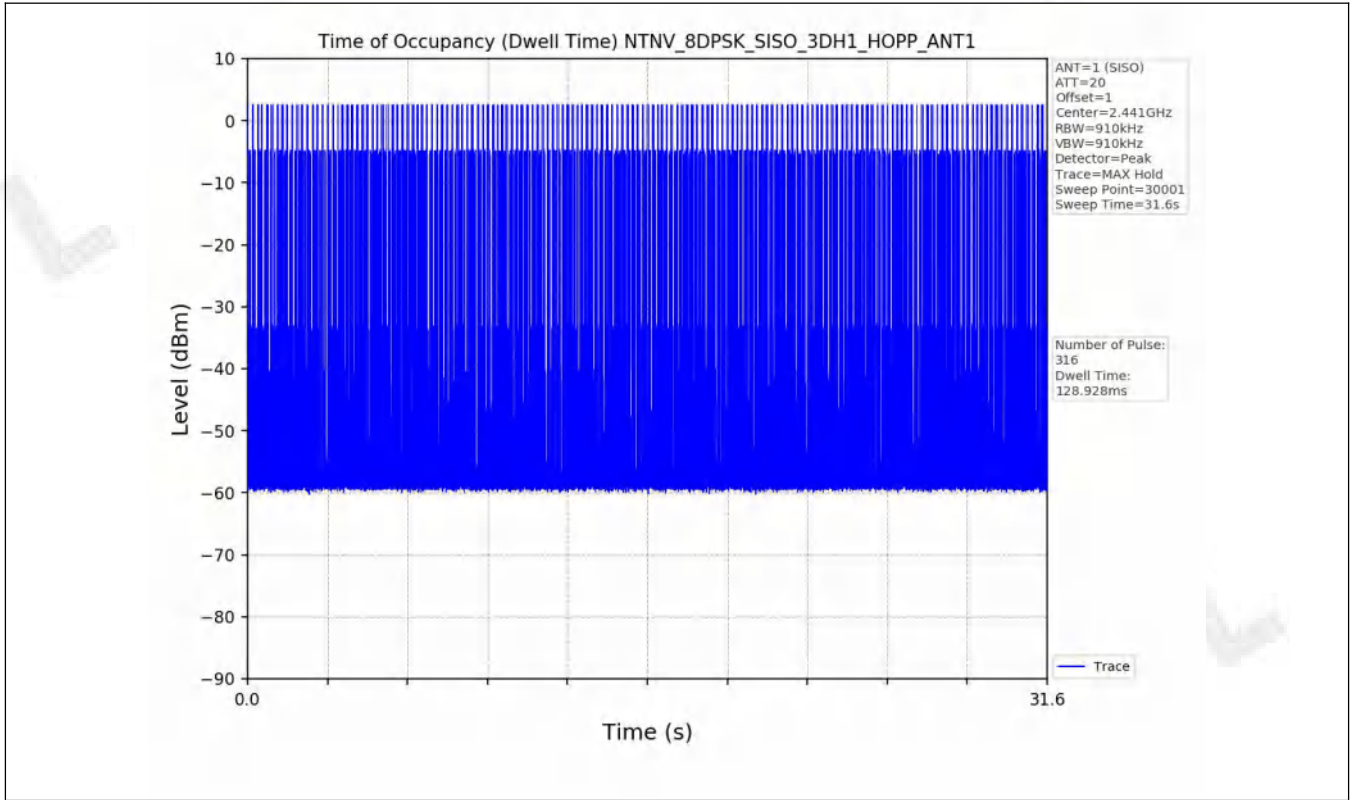




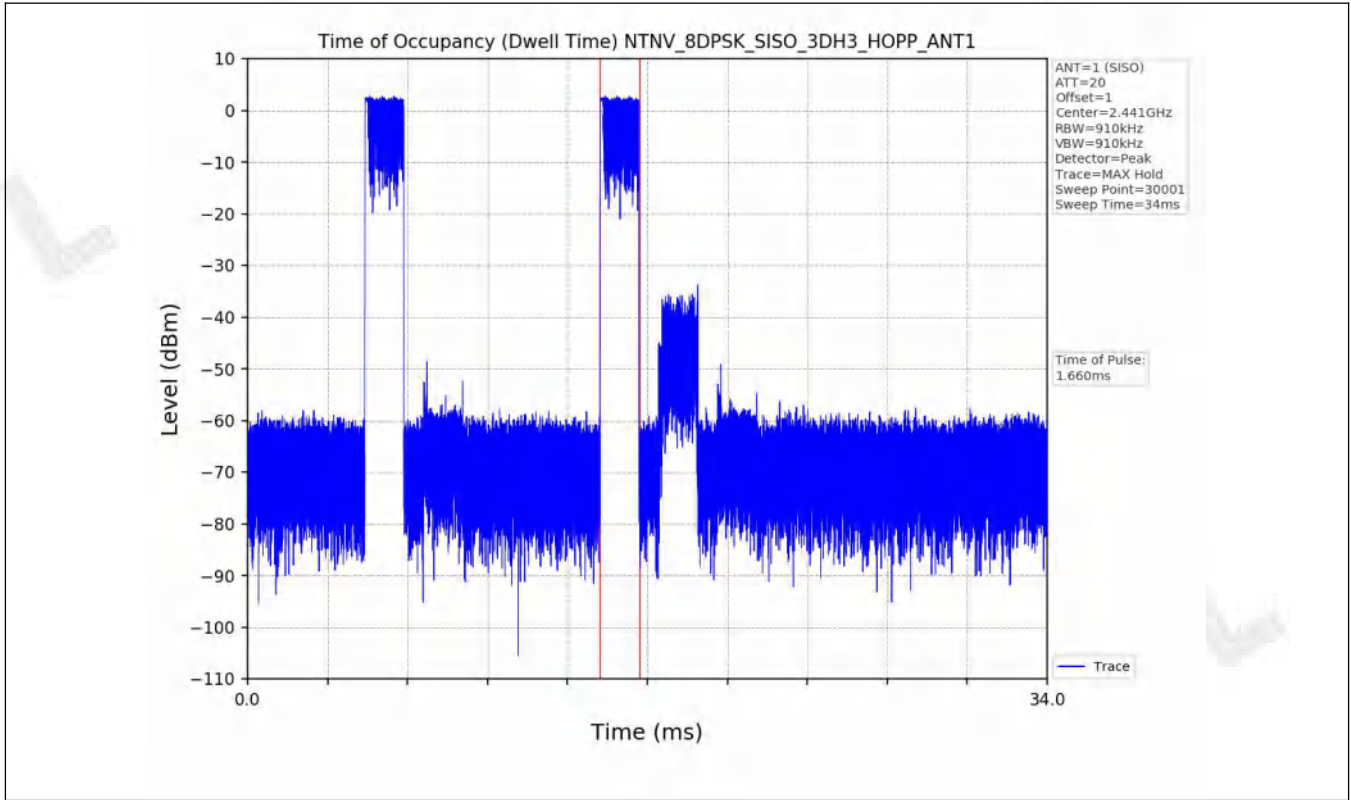


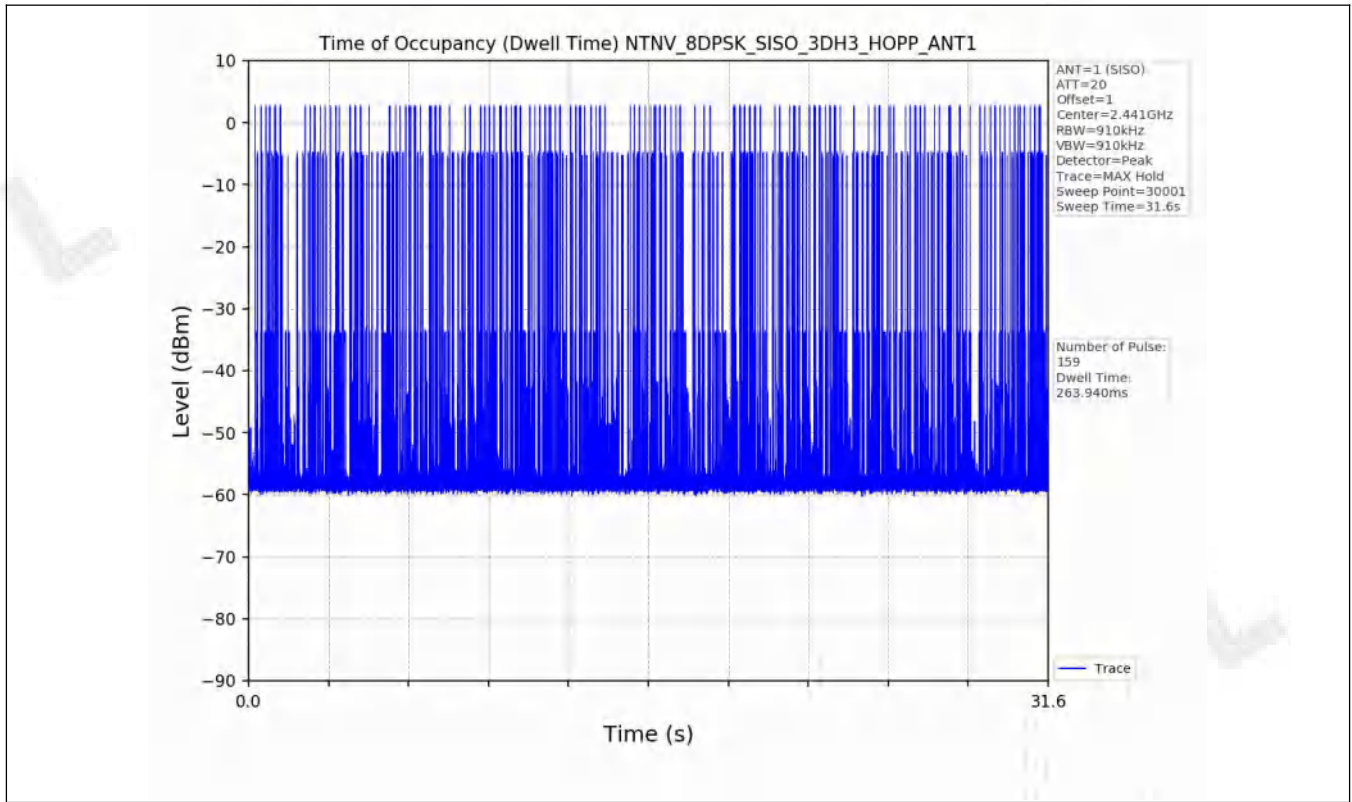


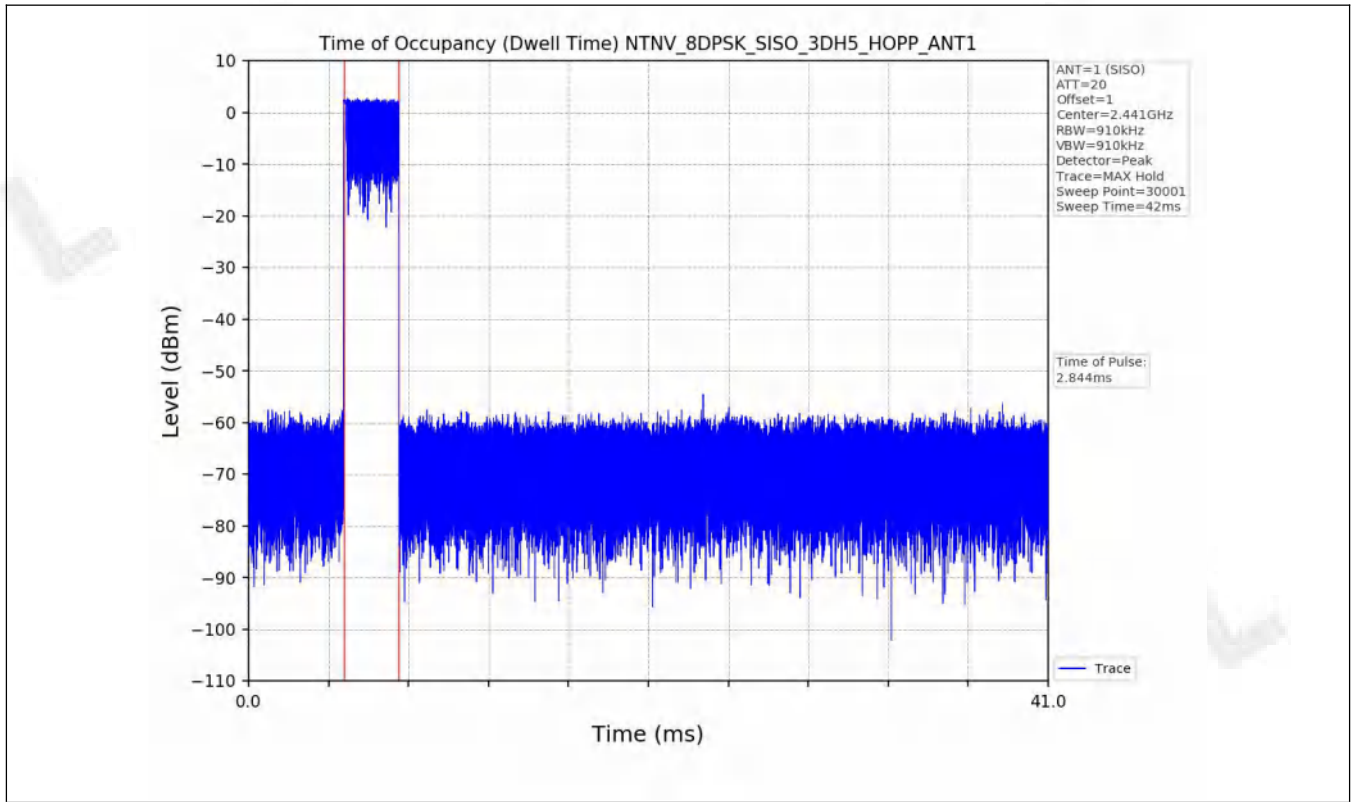


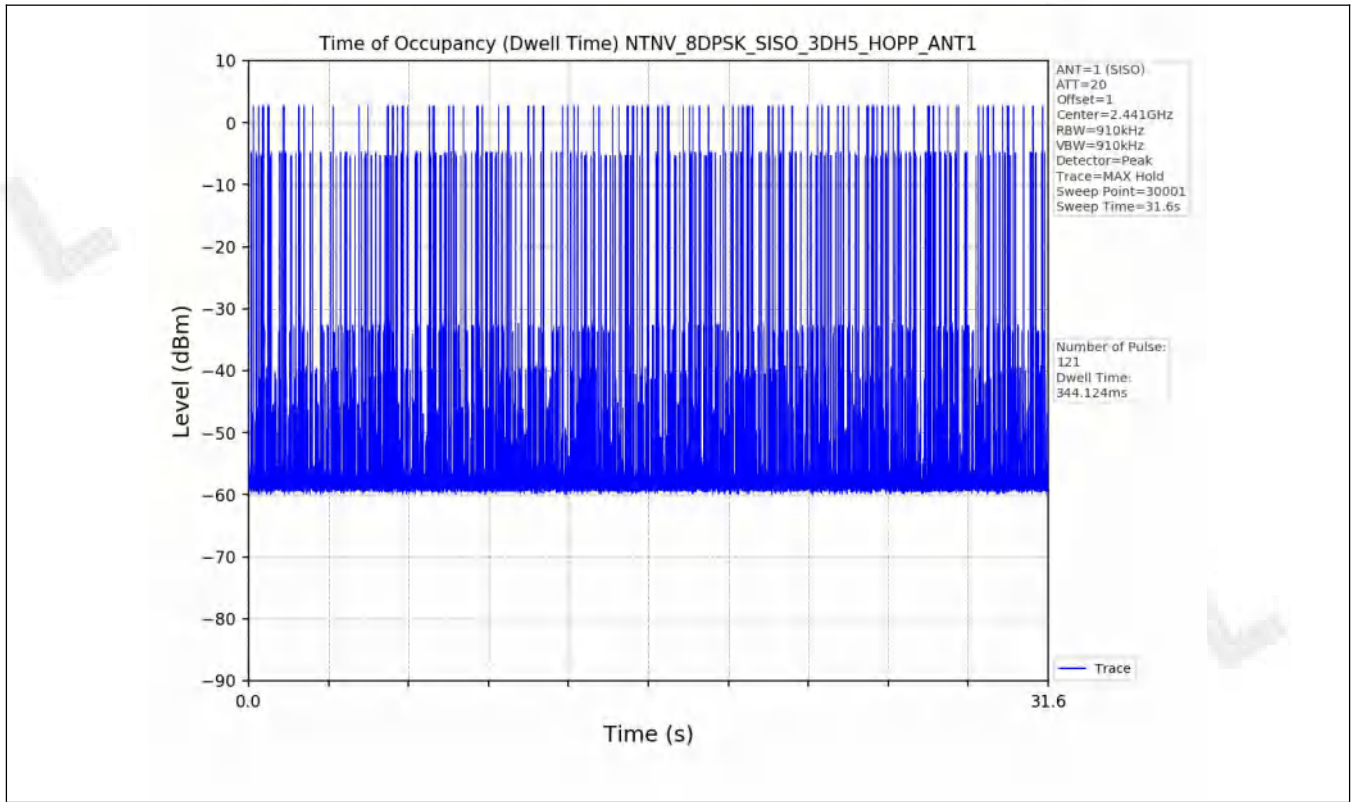












## 6. Unwanted Emissions in Non-restricted Frequency Bands

### 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	-17.02	PASS
	2441	SISO	1	Refer to test graph	-17.02	PASS
	2480	SISO	1	Refer to test graph	-17.02	PASS
	Hopping	SISO	1	Refer to test graph	-17.02	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-17.04	PASS
	2441	SISO	1	Refer to test graph	-17.04	PASS
	2480	SISO	1	Refer to test graph	-17.04	PASS
	Hopping	SISO	1	Refer to test graph	-17.04	PASS
8DPSK	2402	SISO	1	Refer to test graph	-17.19	PASS
	2441	SISO	1	Refer to test	-17.19	PASS



				graph		
	2480	SISO	1	Refer to test graph	-17.19	PASS
	Hopping	SISO	1	Refer to test graph	-17.19	PASS

### 6.2 Test Graph

