

# Report No.: CTL2009161021-WF

## Appendix for 15.247

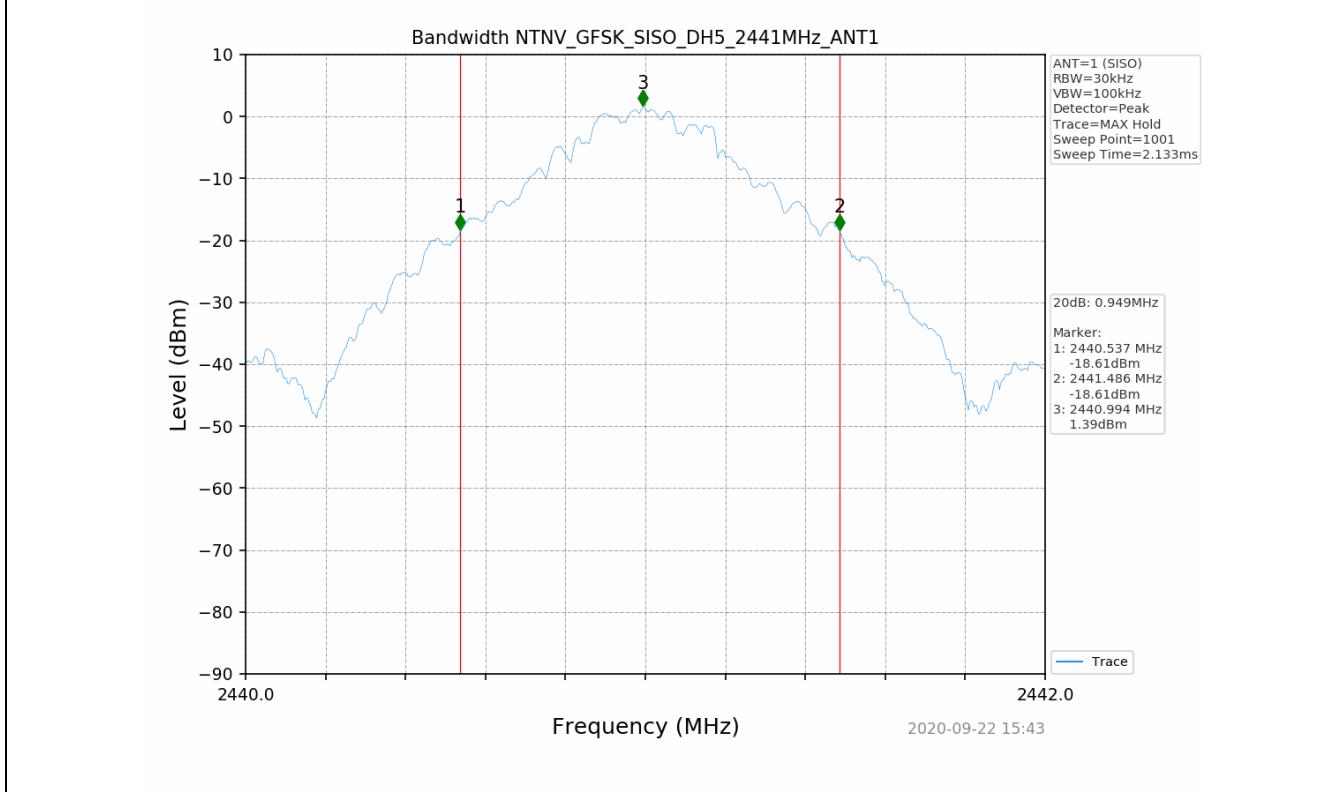
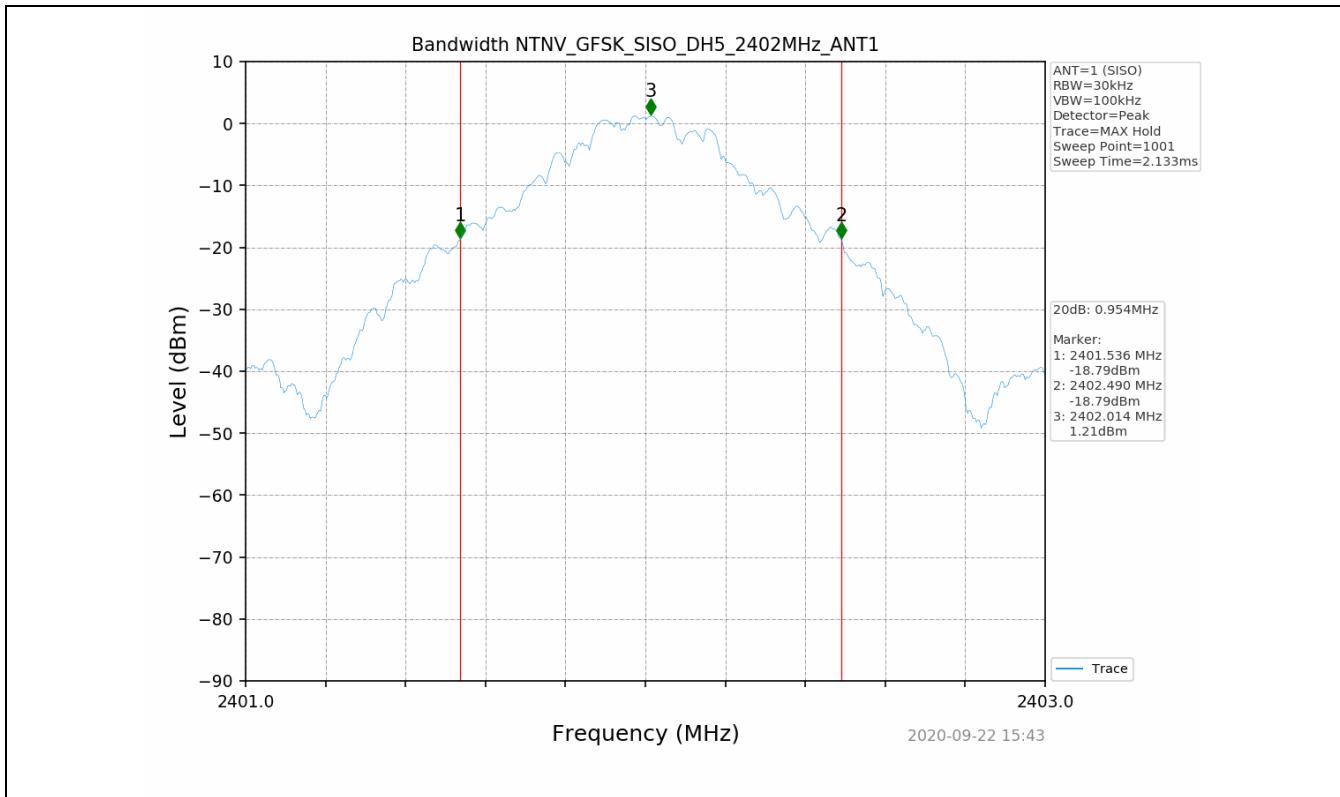
### 1. Bandwidth

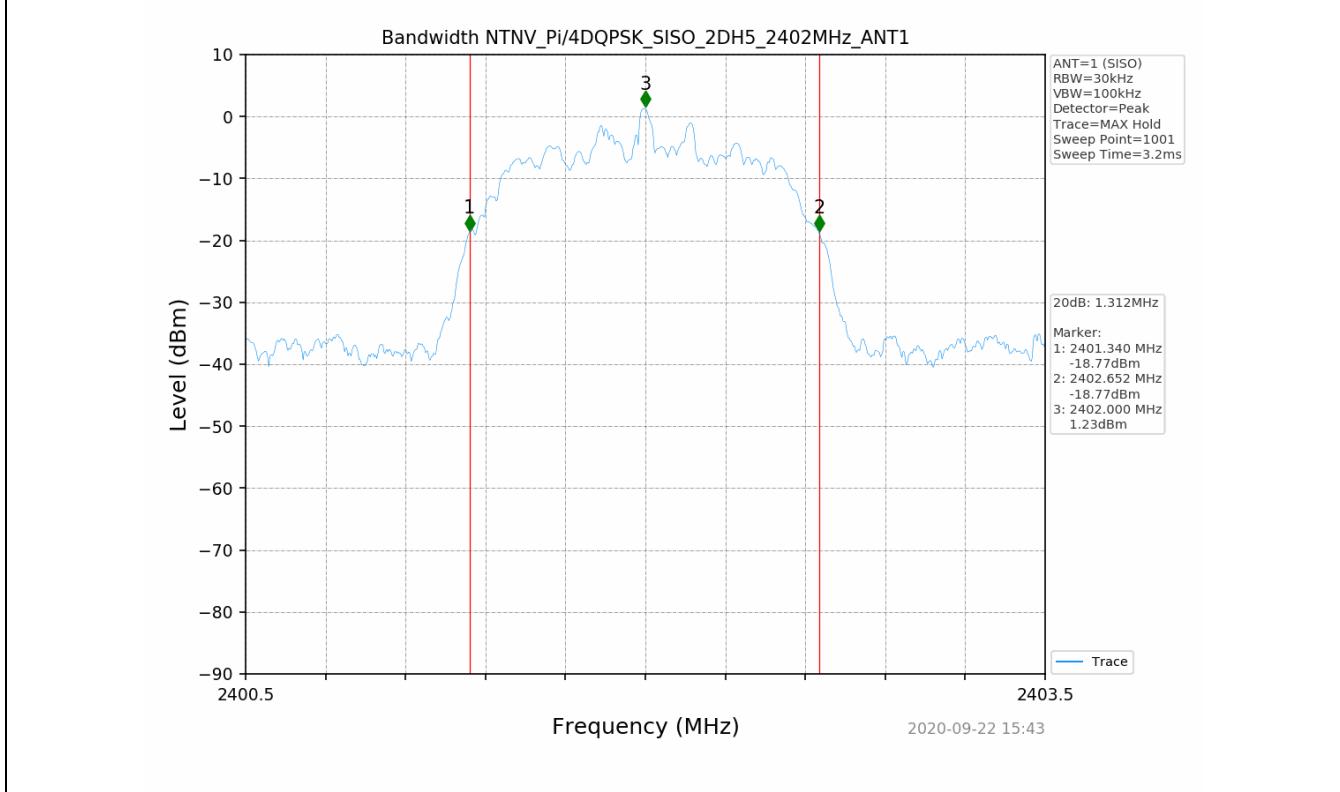
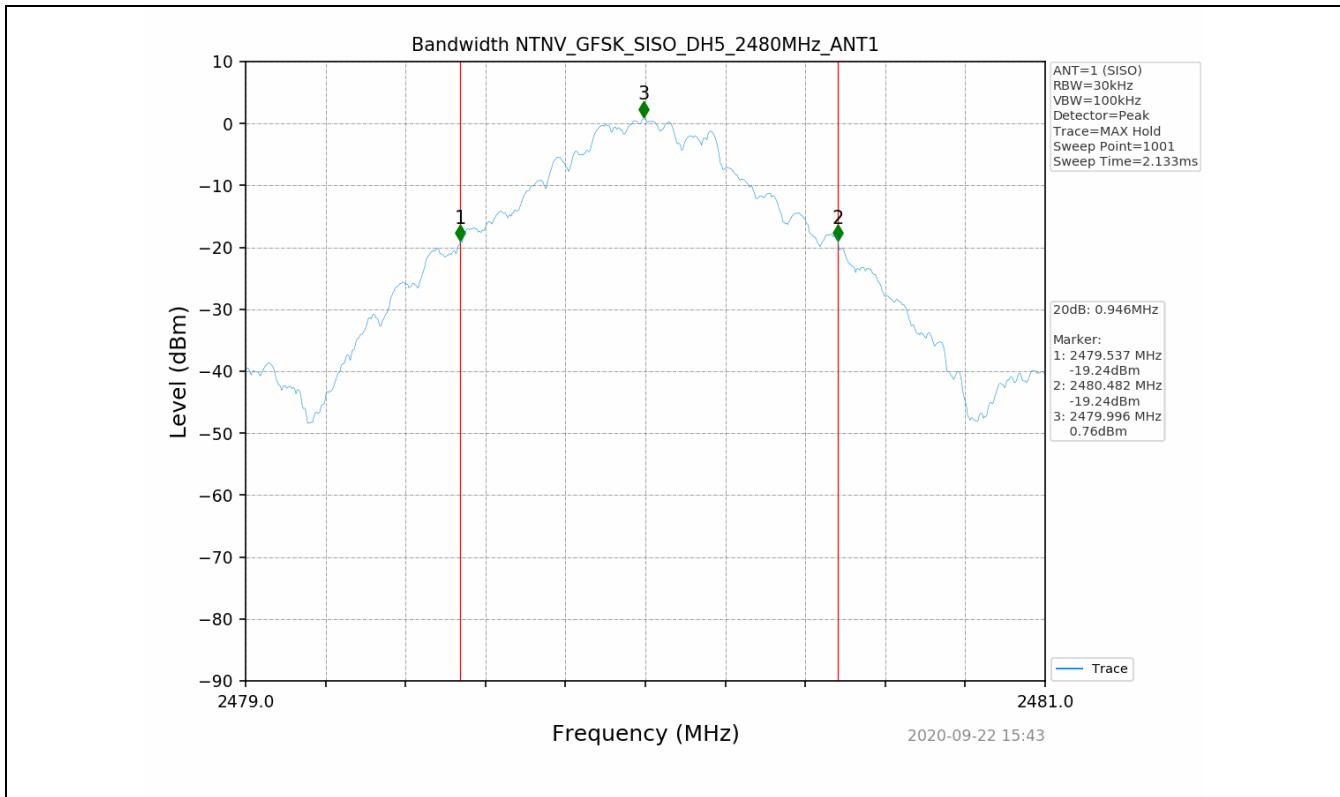
#### 1.1 Test Result

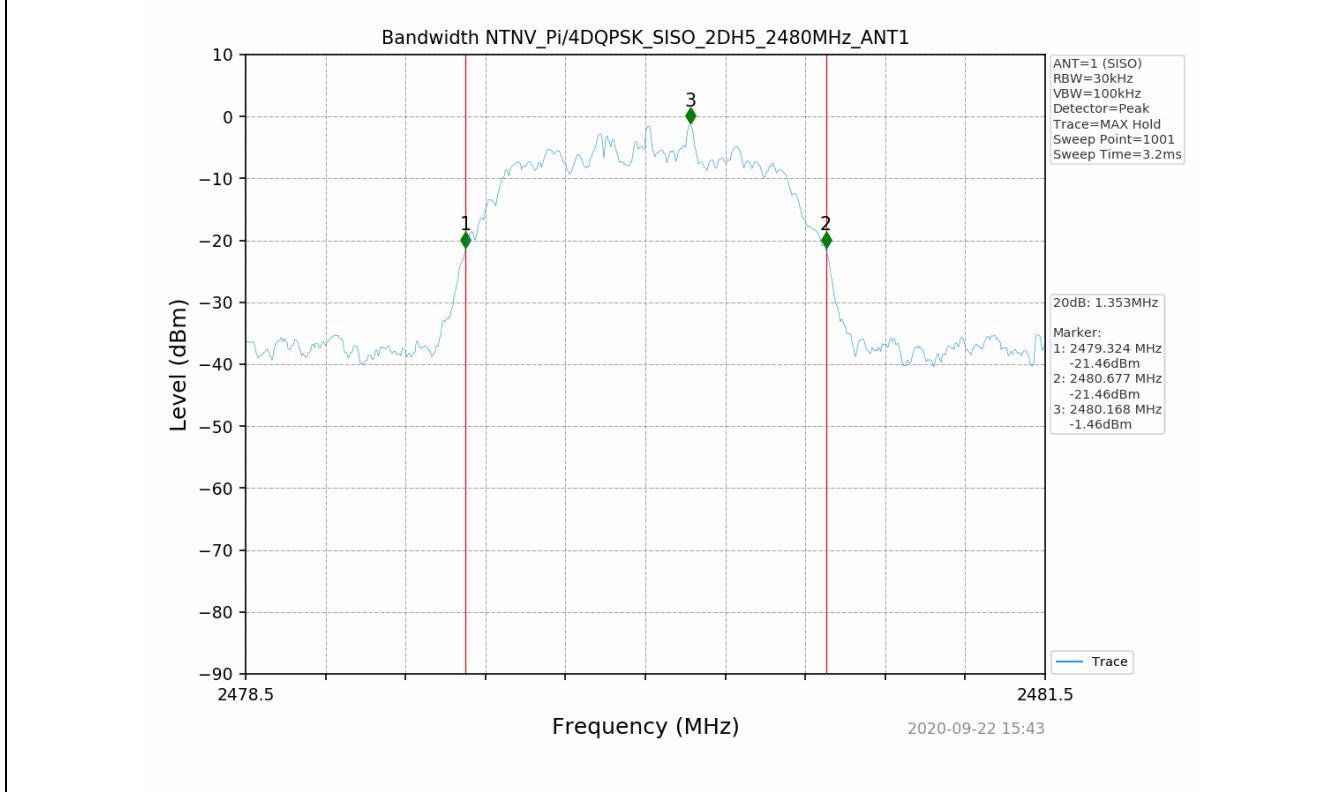
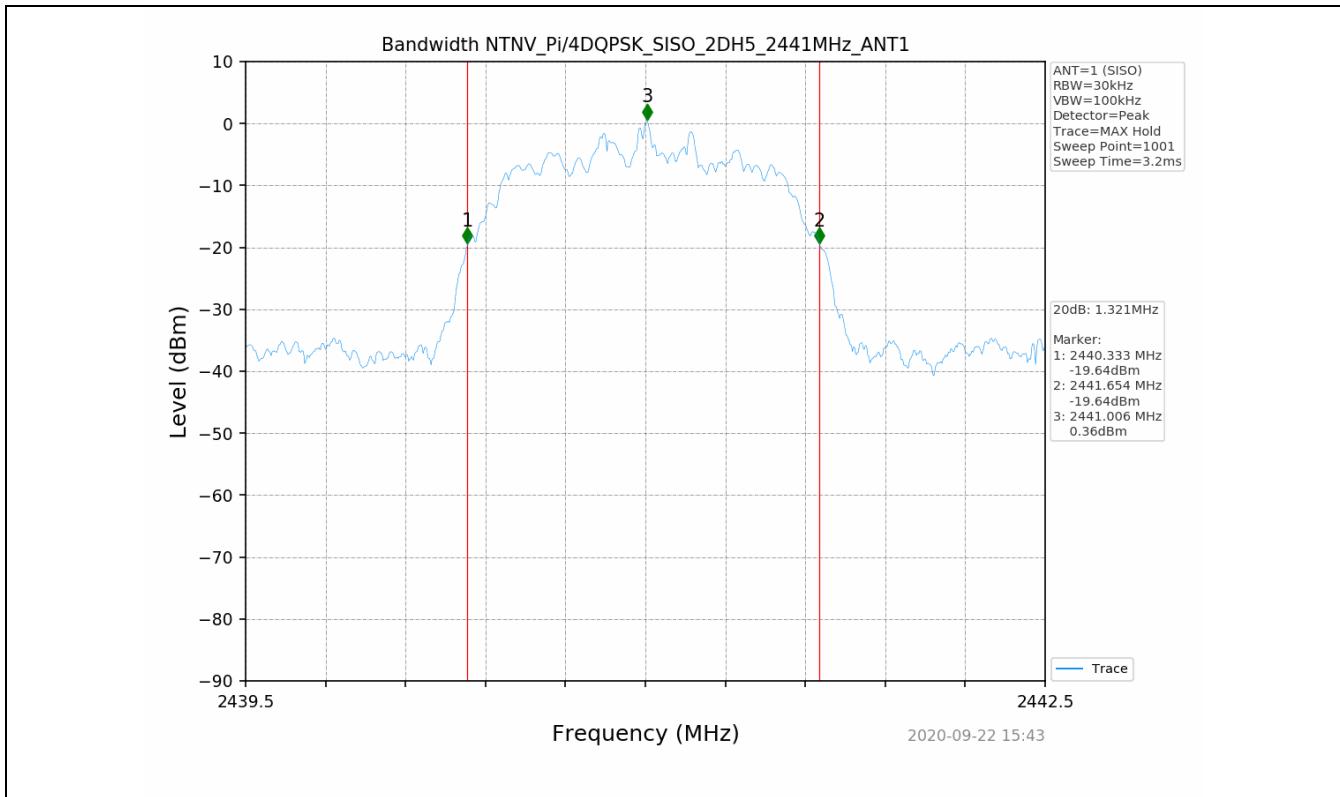
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.954	PASS
	2441	SISO	1	0.949	PASS
	2480	SISO	1	0.946	PASS
Pi/4DQPSK	2402	SISO	1	1.312	PASS
	2441	SISO	1	1.321	PASS
	2480	SISO	1	1.353	PASS
8DPSK	2402	SISO	1	1.331	PASS
	2441	SISO	1	1.326	PASS
	2480	SISO	1	1.312	PASS

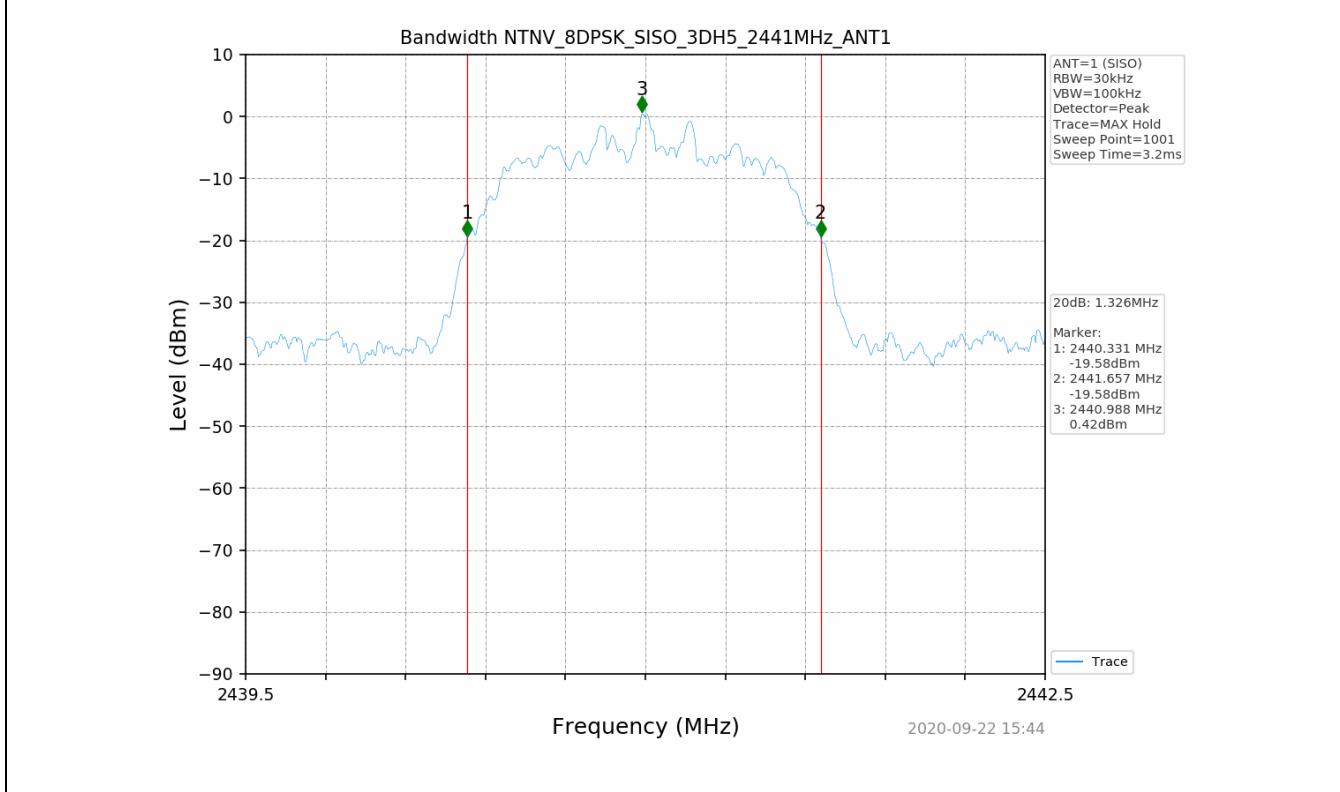
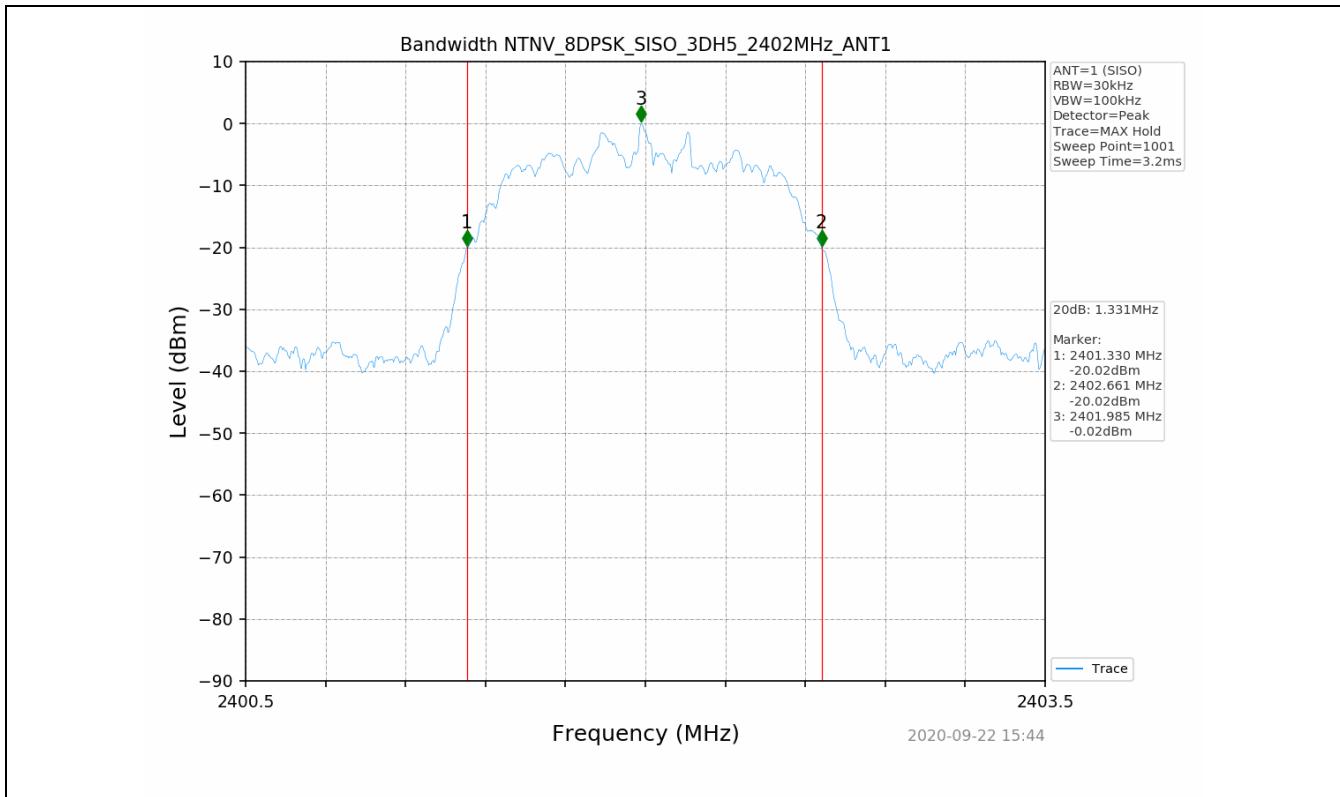
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	Test Result (MHz)
				Test Result (MHz)	
GFSK	2402	SISO	1	0.851	Only for Report Use
	2441	SISO	1	0.855	Only for Report Use
	2480	SISO	1	0.856	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.187	Only for Report Use
	2441	SISO	1	1.192	Only for Report Use
	2480	SISO	1	1.195	Only for Report Use
8DPSK	2402	SISO	1	1.190	Only for Report Use
	2441	SISO	1	1.194	Only for Report Use
	2480	SISO	1	1.196	Only for Report Use

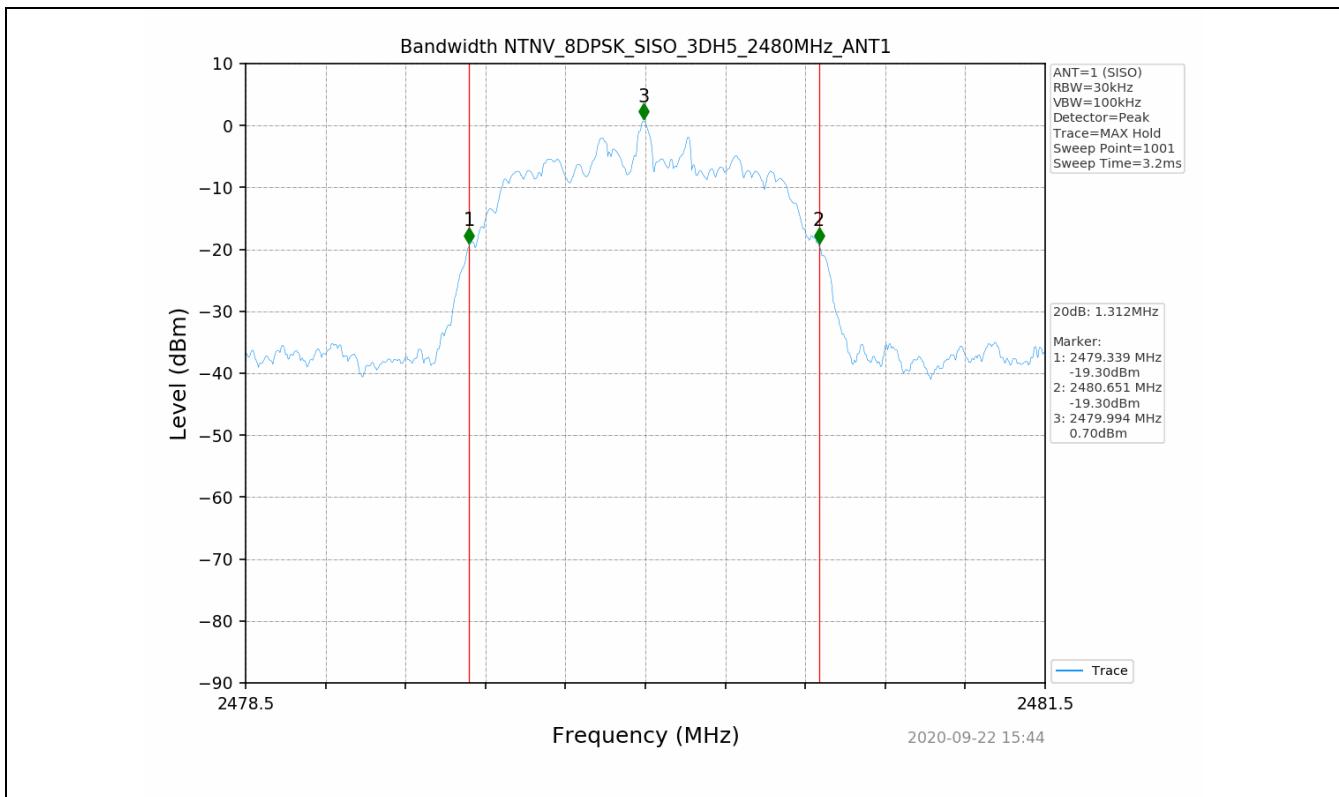
#### 1.2 Test Graph - 20dB Bandwidth



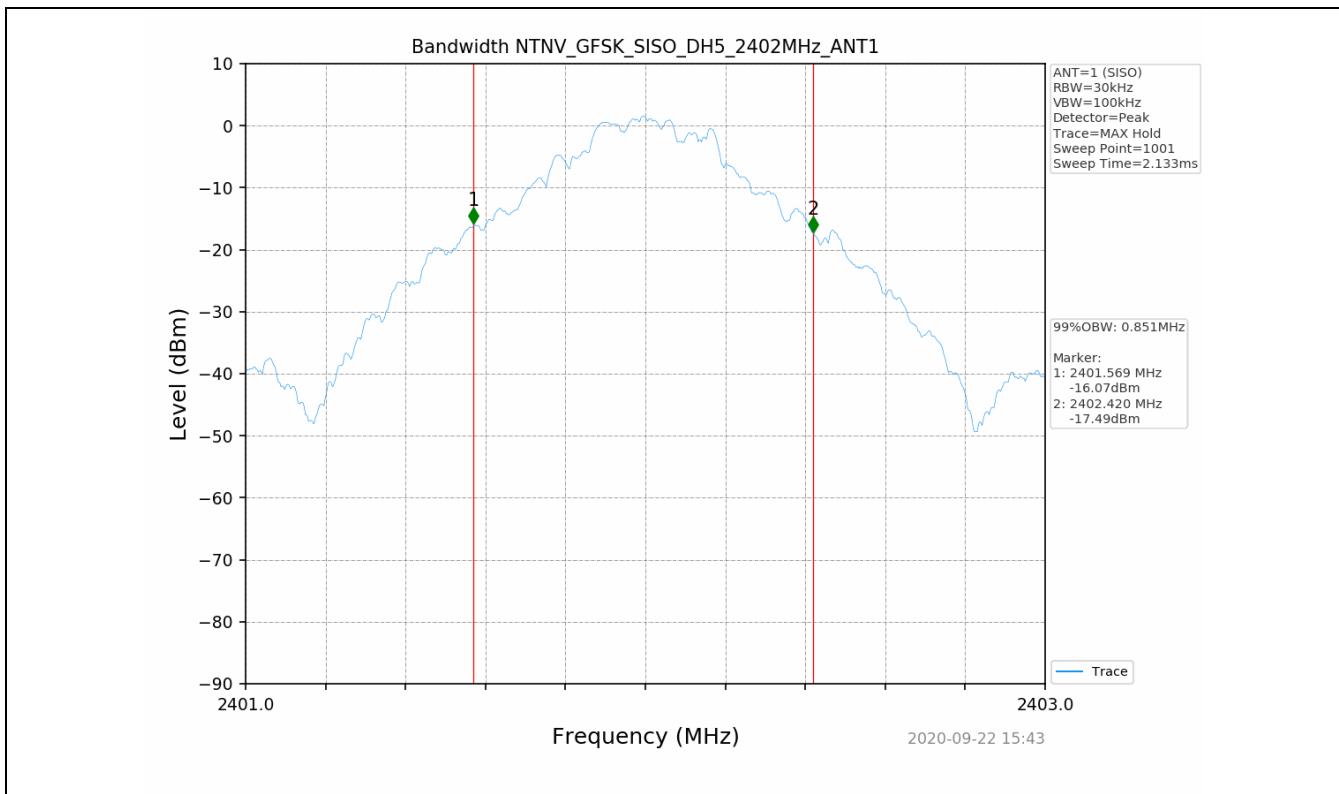


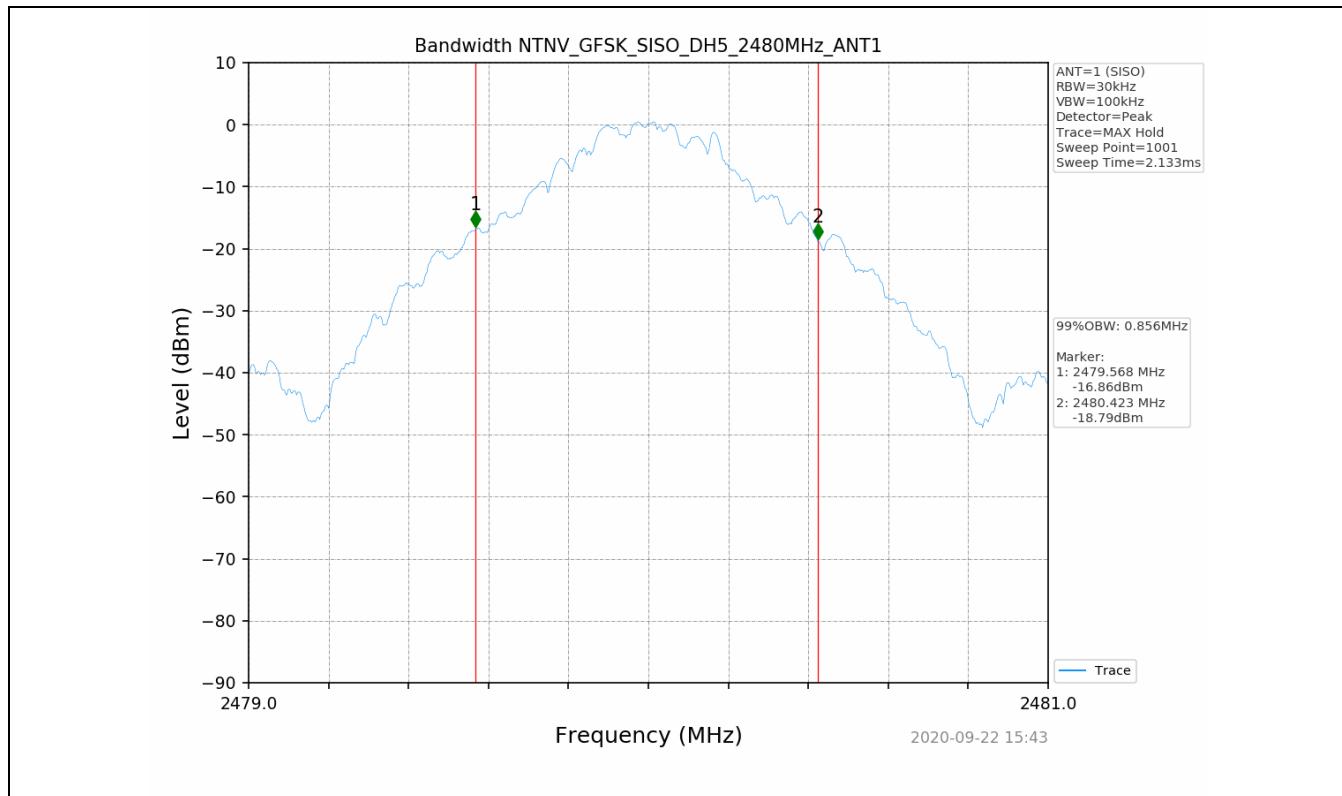
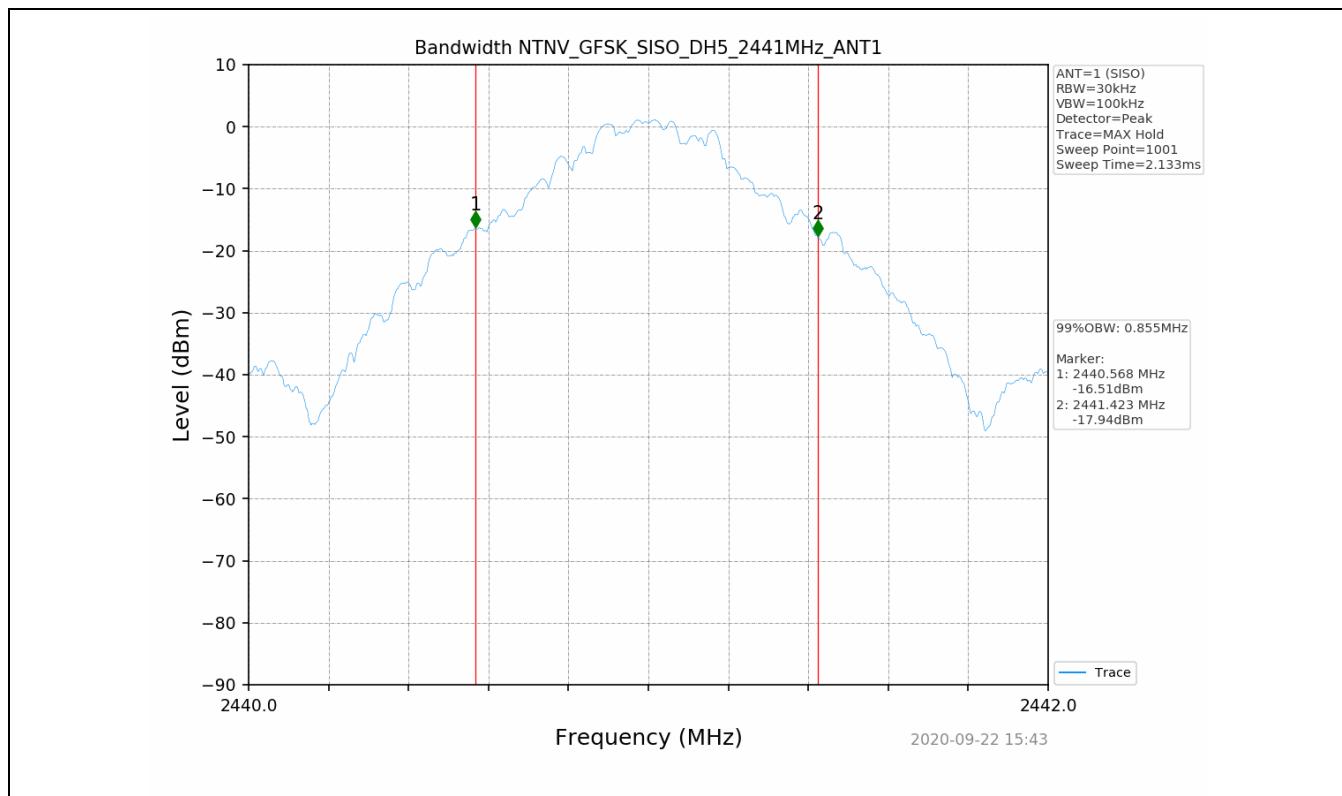


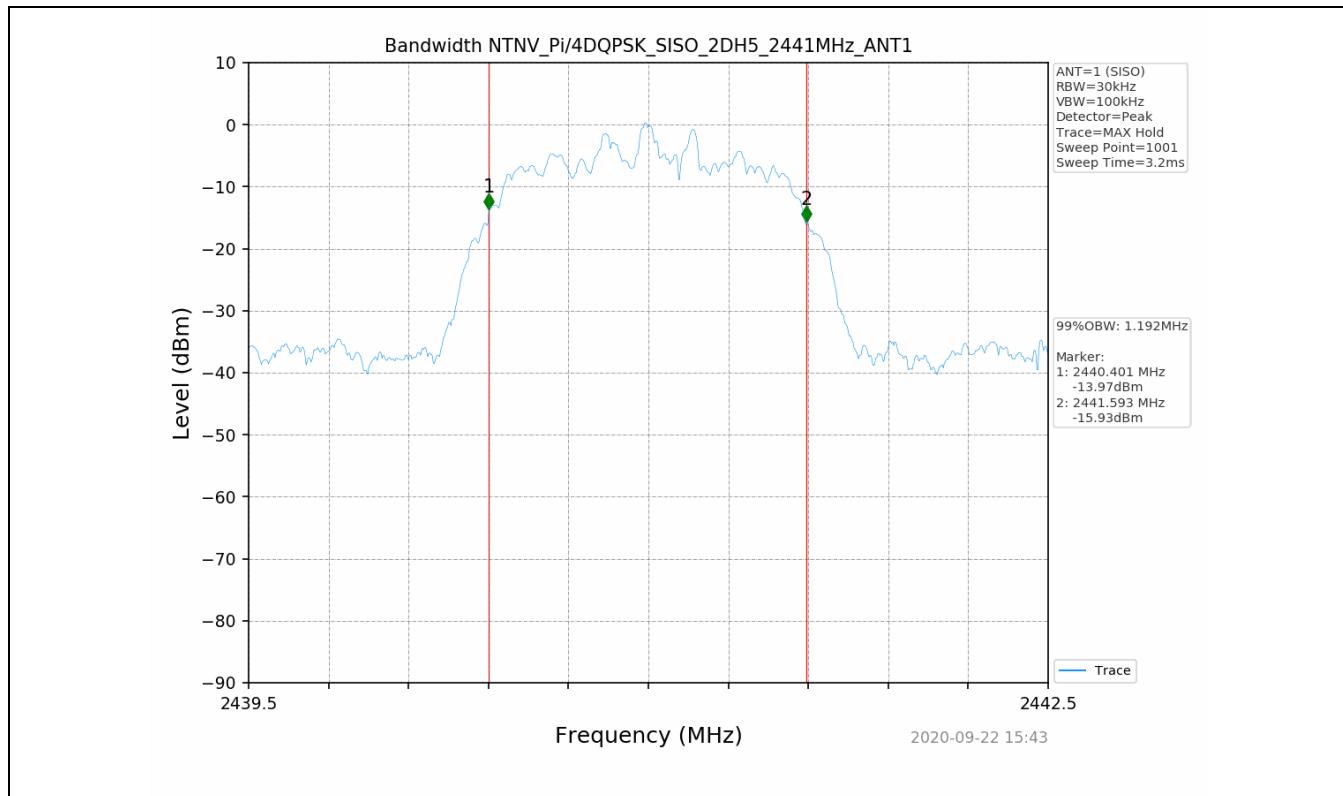
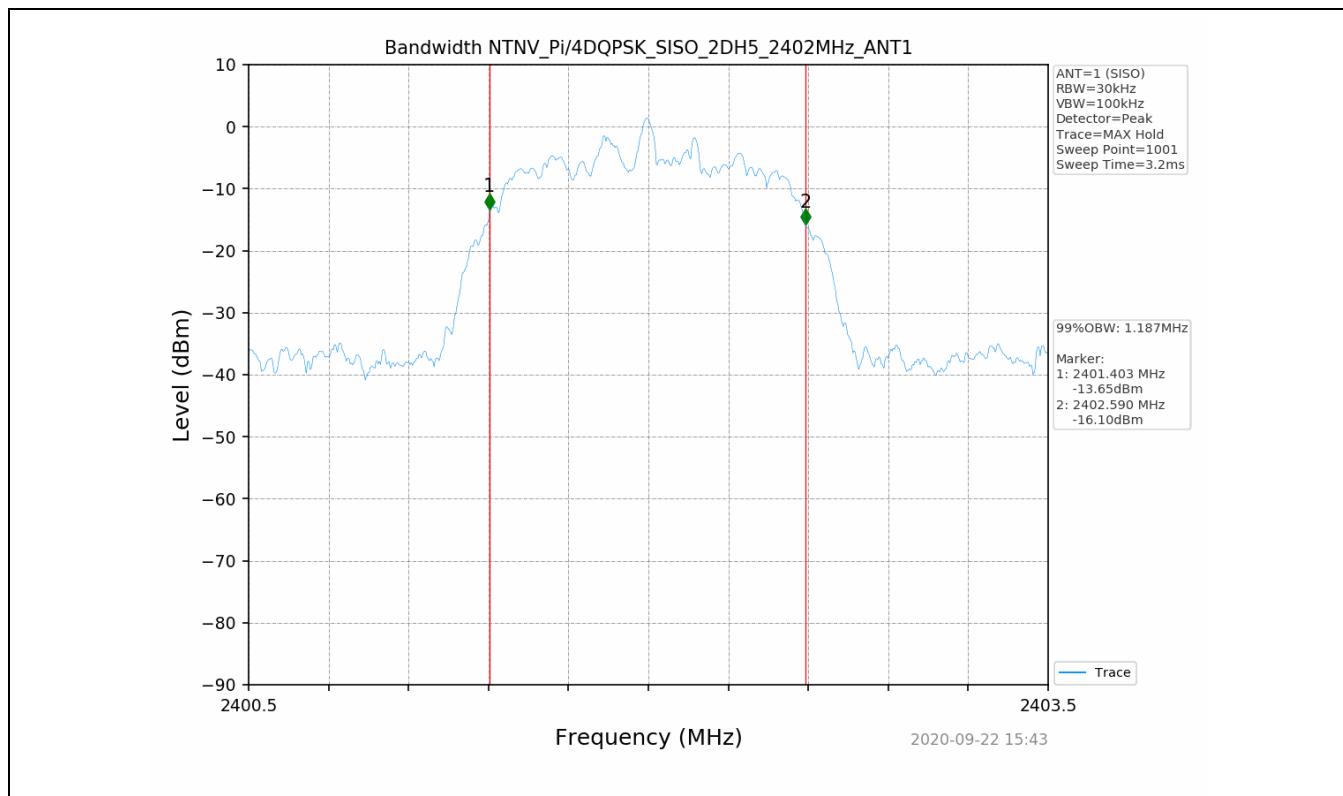


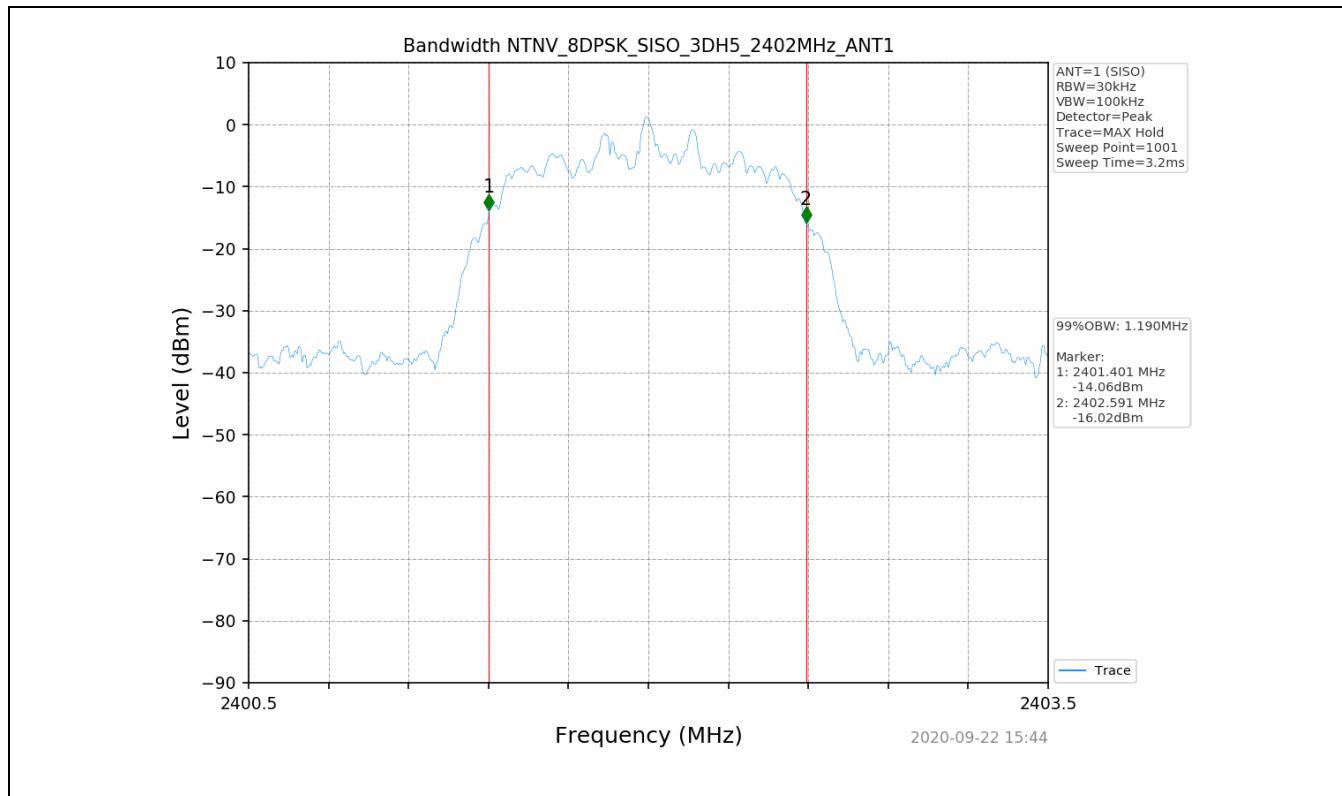
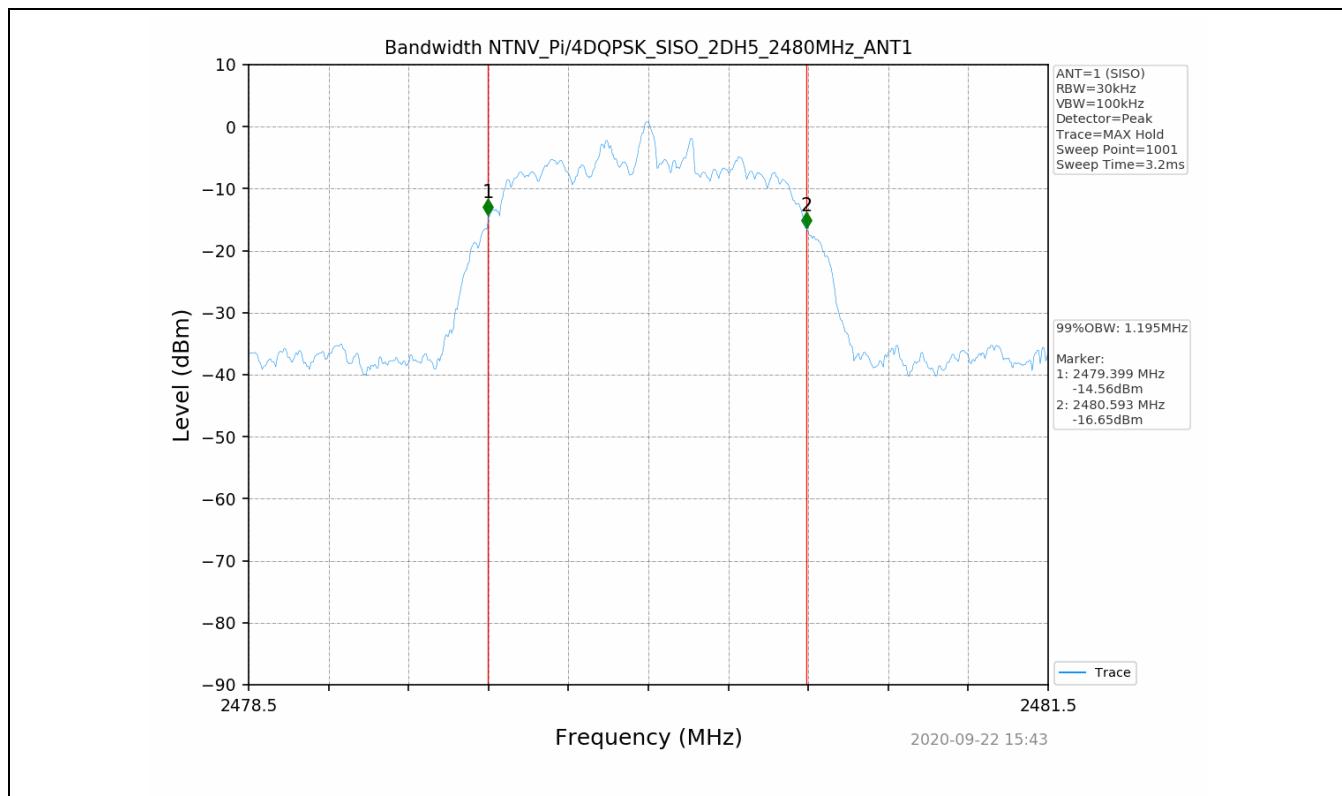


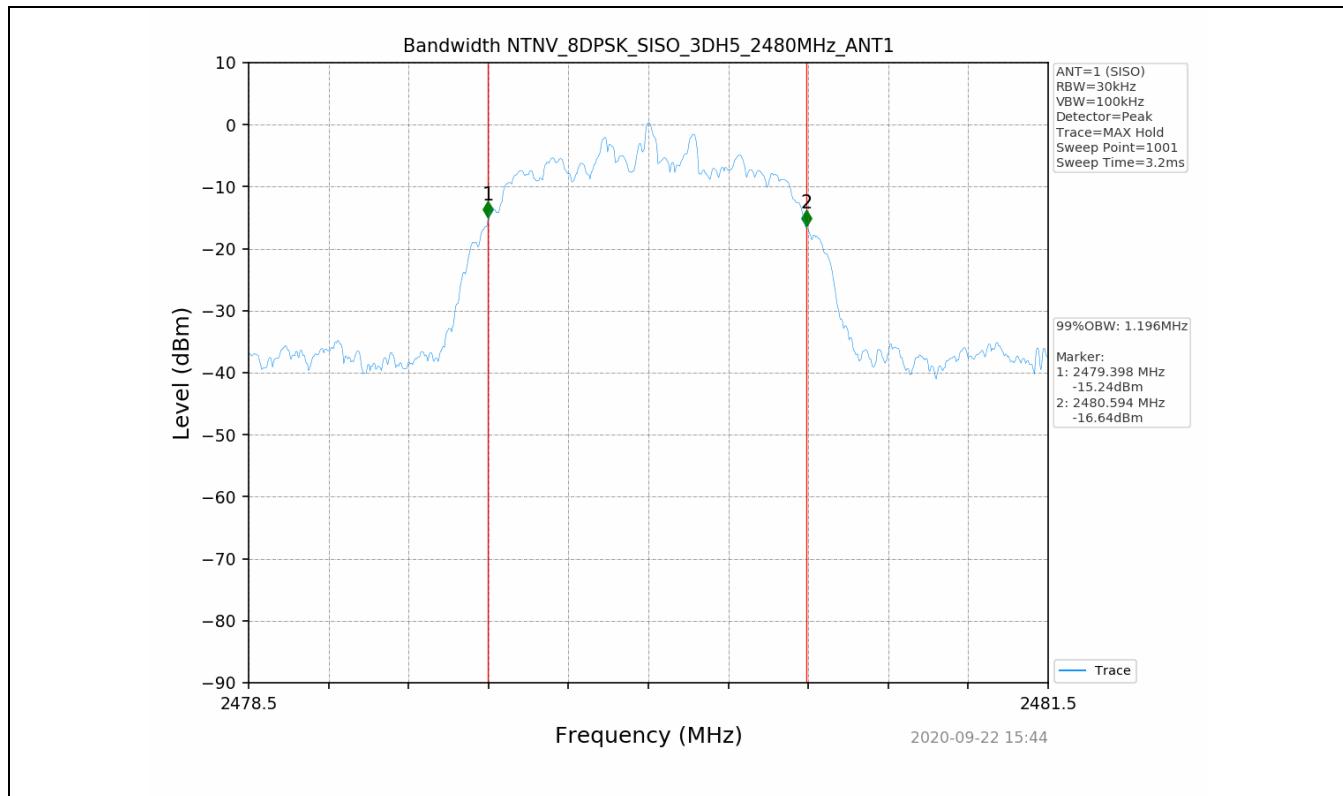
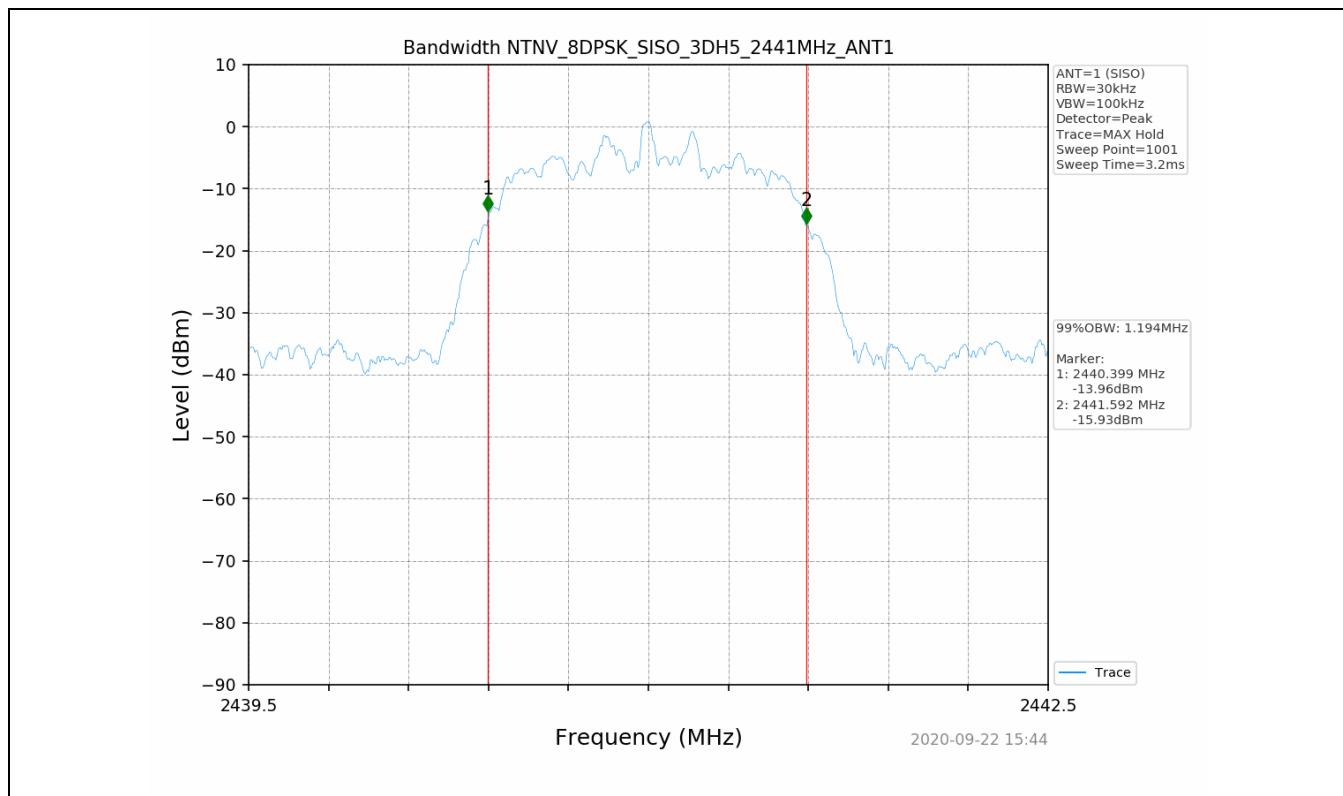
### 1.3 Test Graph - 99% Occupied Bandwidth









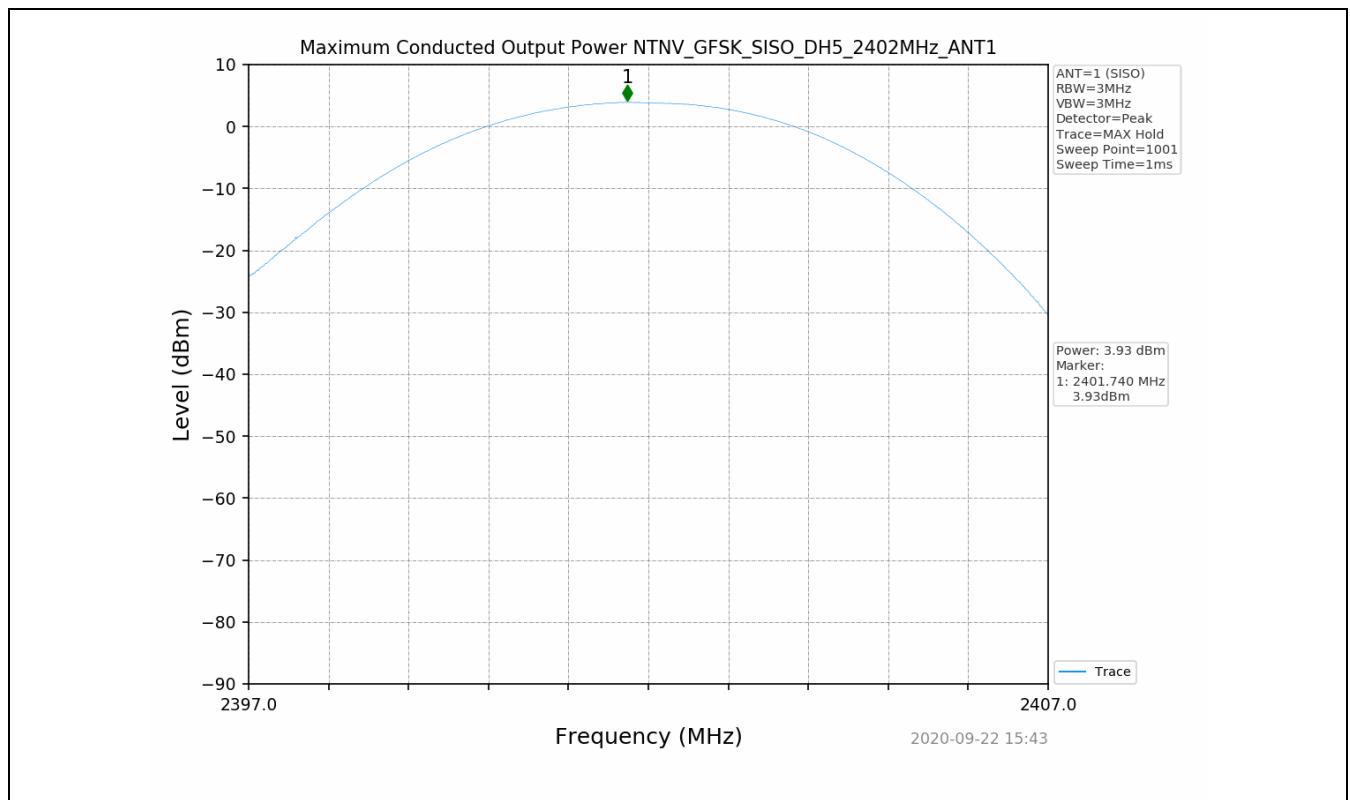


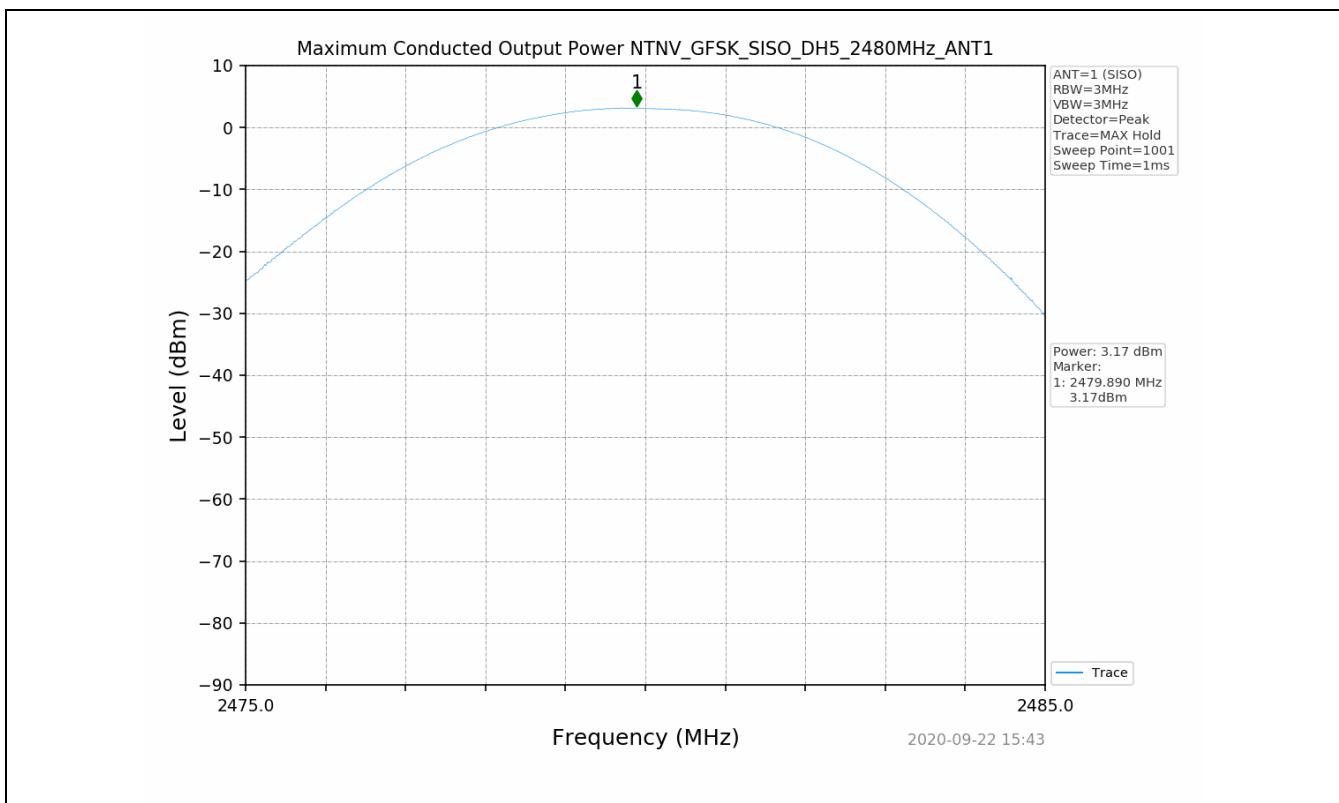
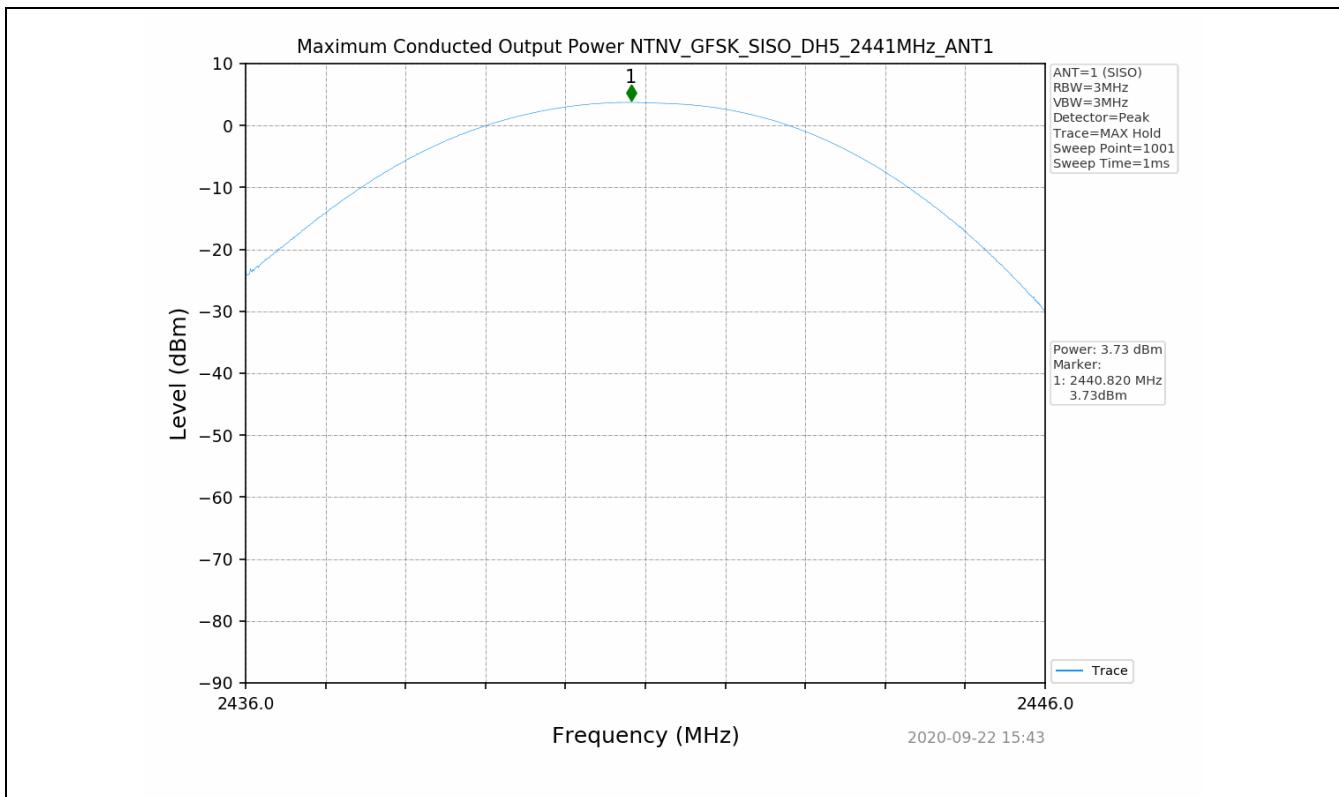
## 2. Maximum Conducted Output Power

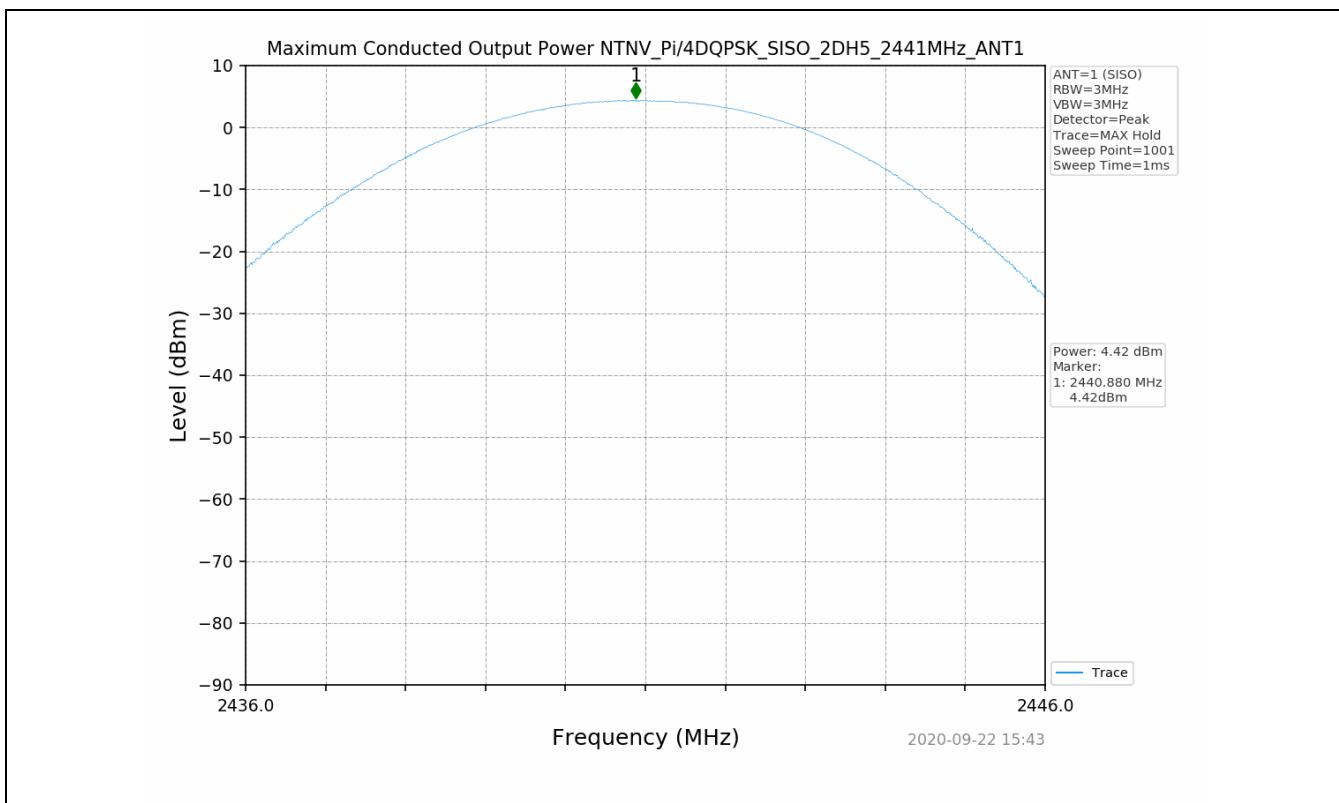
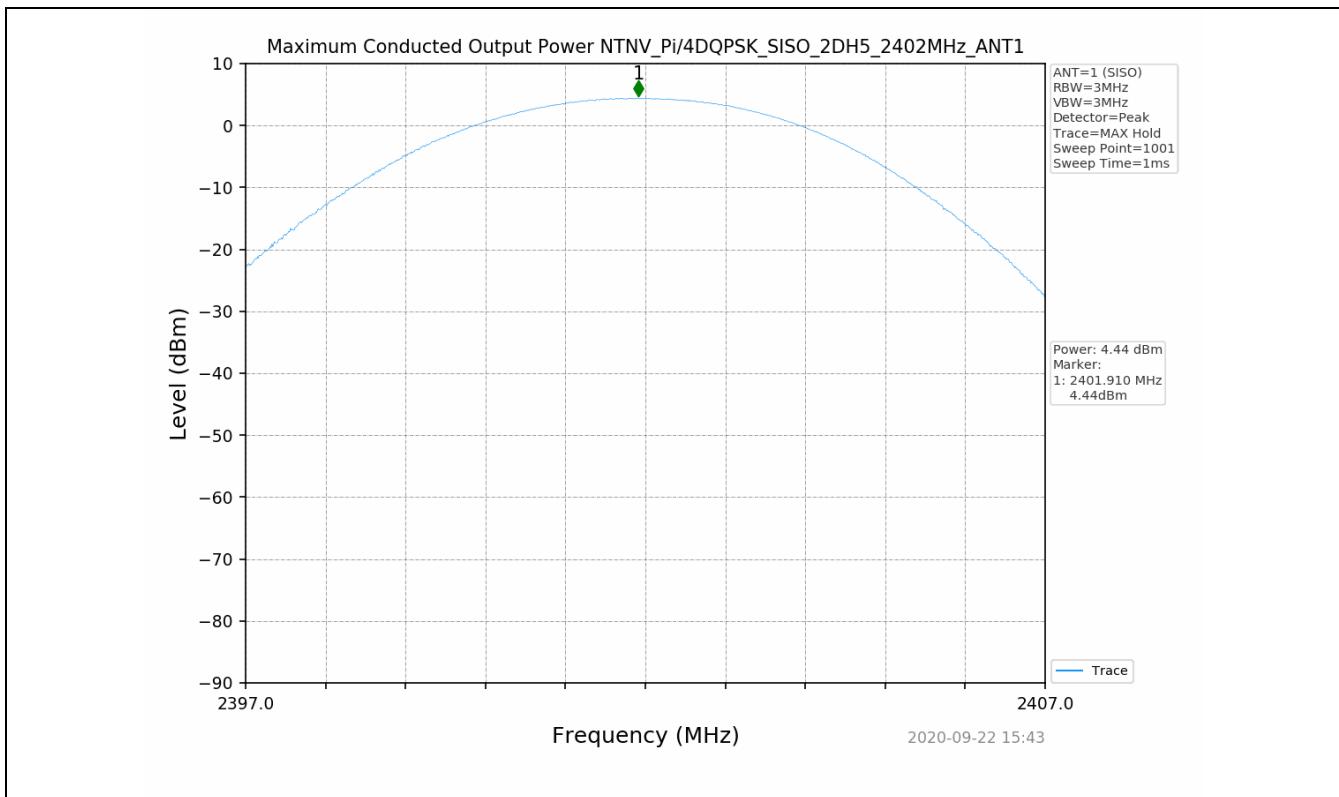
### 2.1 Test Result

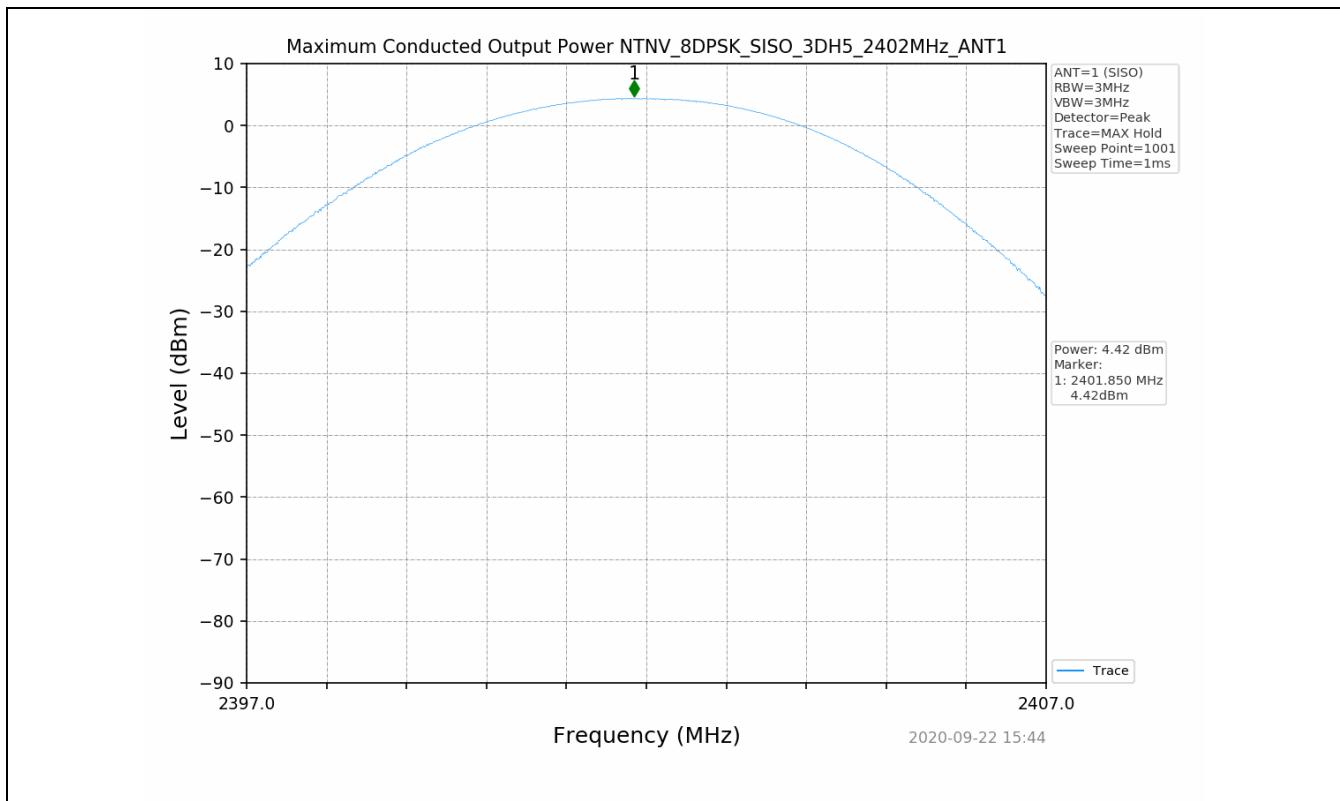
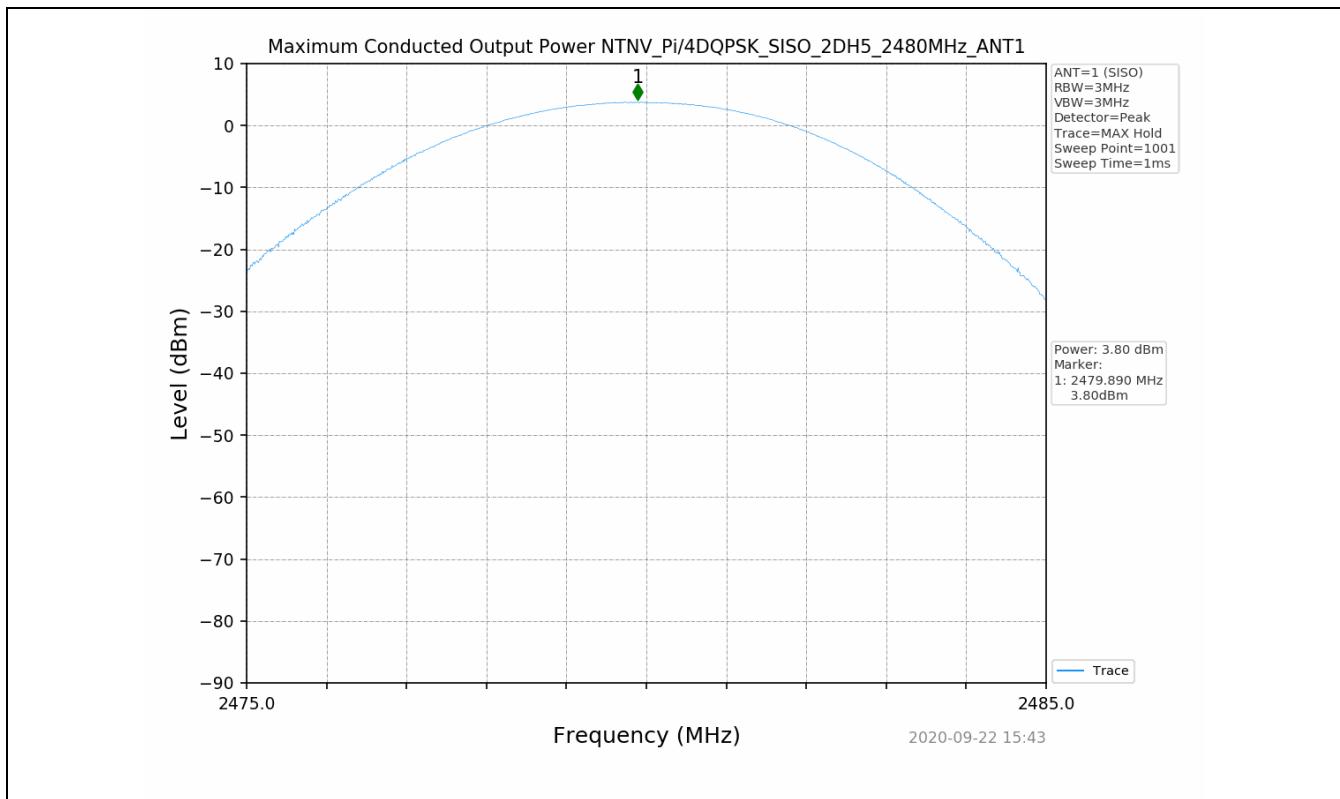
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	3.93	30	PASS
	2441	SISO	3.73	30	PASS
	2480	SISO	3.17	30	PASS
Pi/4DQPSK	2402	SISO	4.44	20.97	PASS
	2441	SISO	4.42	20.97	PASS
	2480	SISO	3.80	20.97	PASS
8DPSK	2402	SISO	4.42	20.97	PASS
	2441	SISO	4.40	20.97	PASS
	2480	SISO	3.79	20.97	PASS

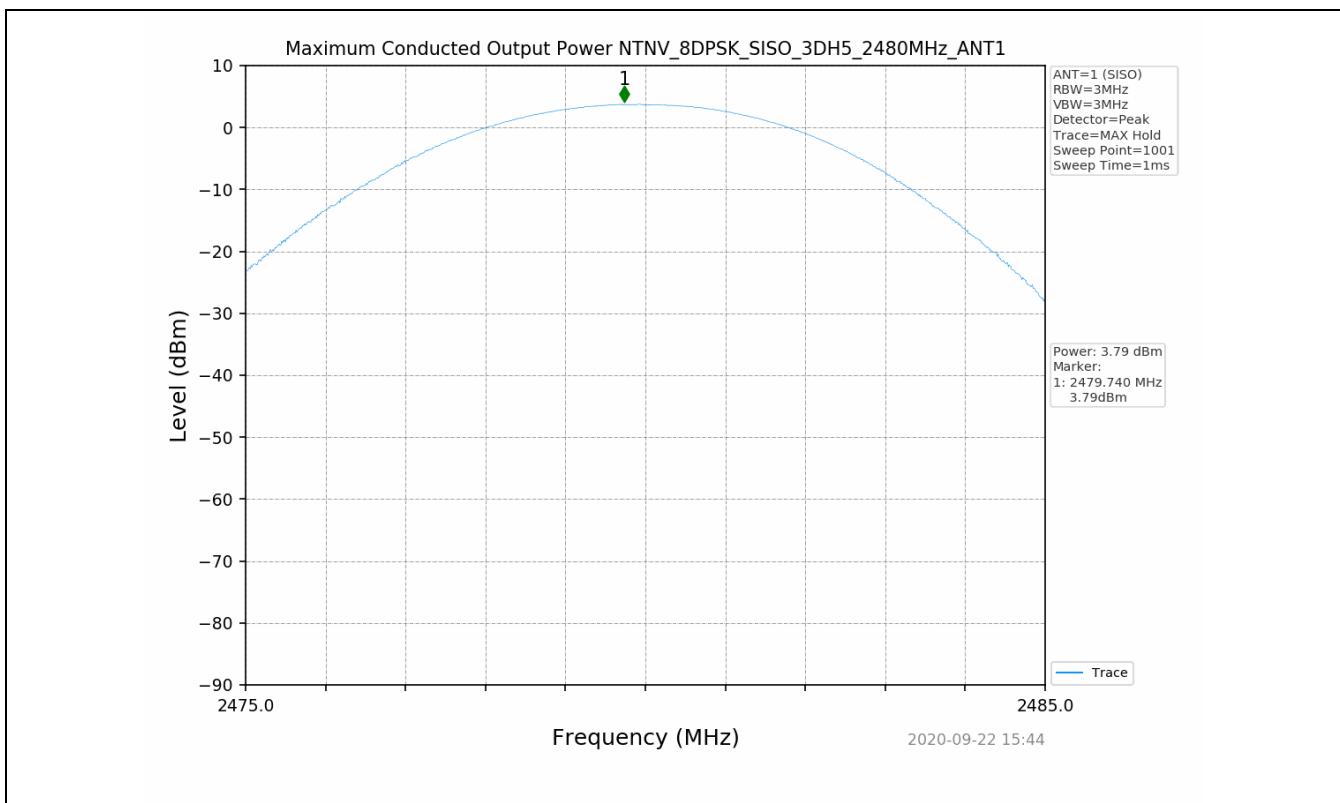
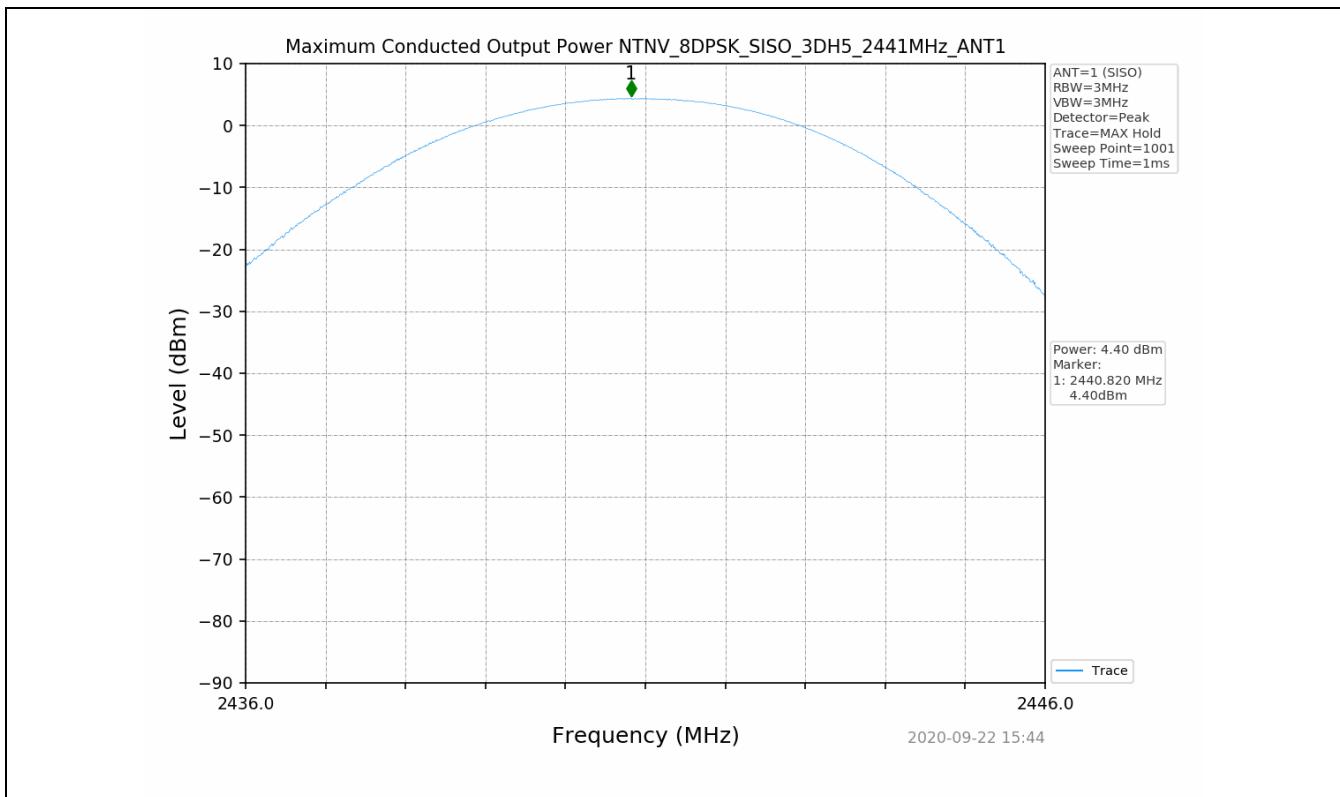
### 2.2 Test Graph









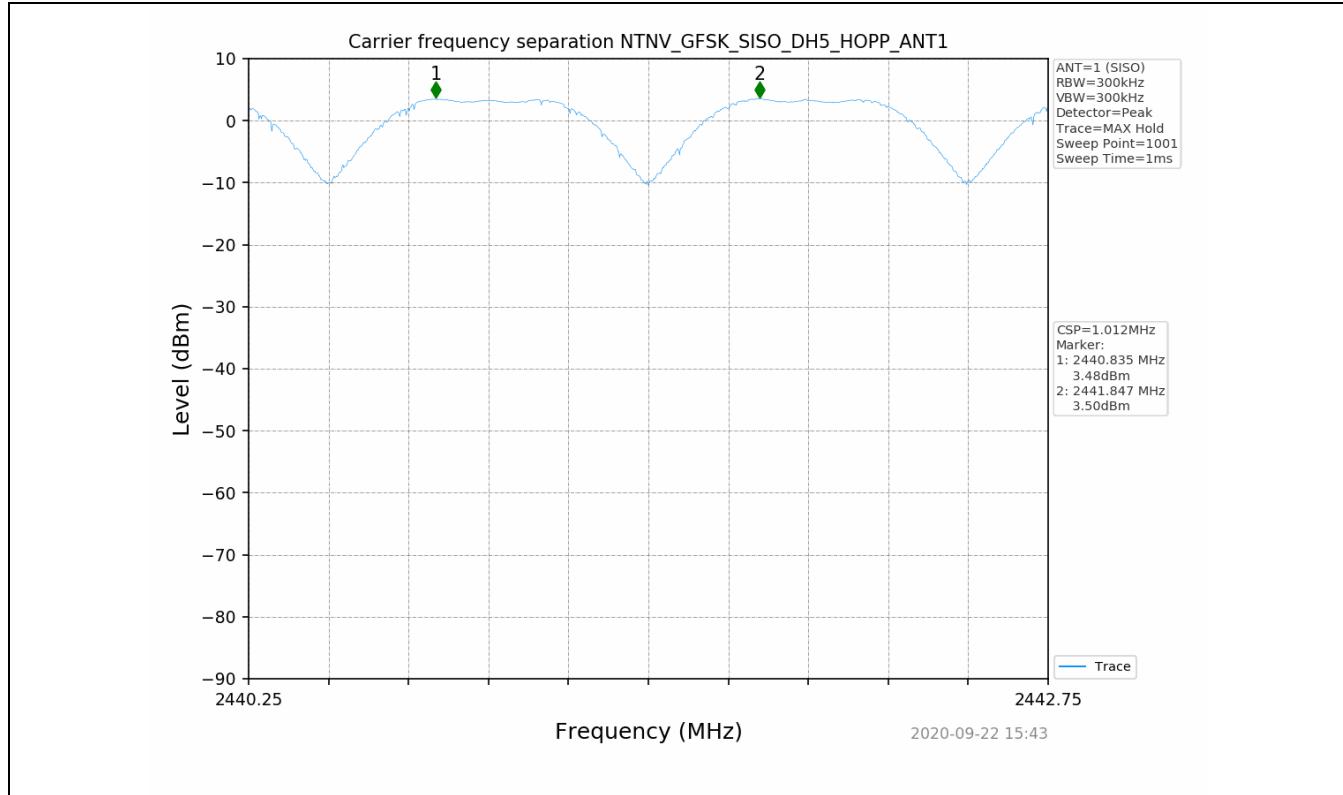


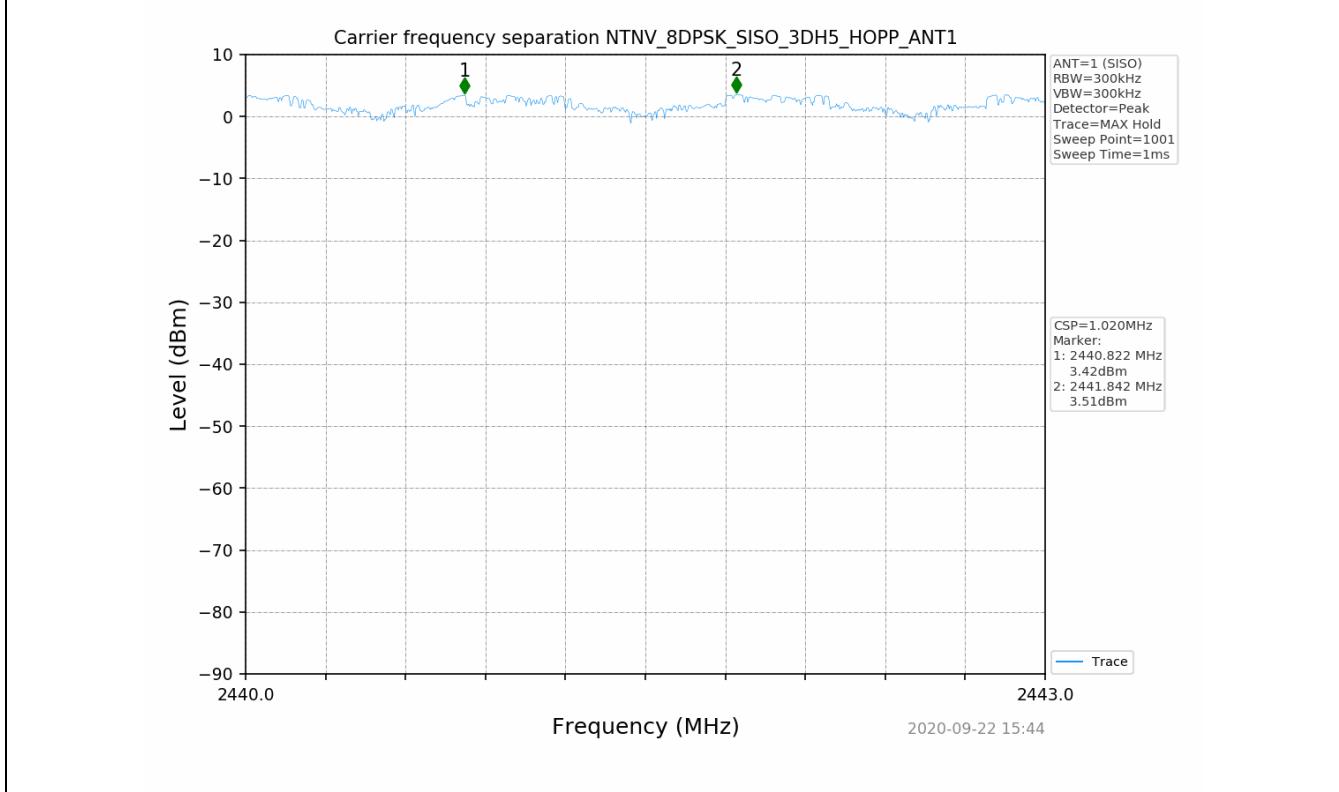
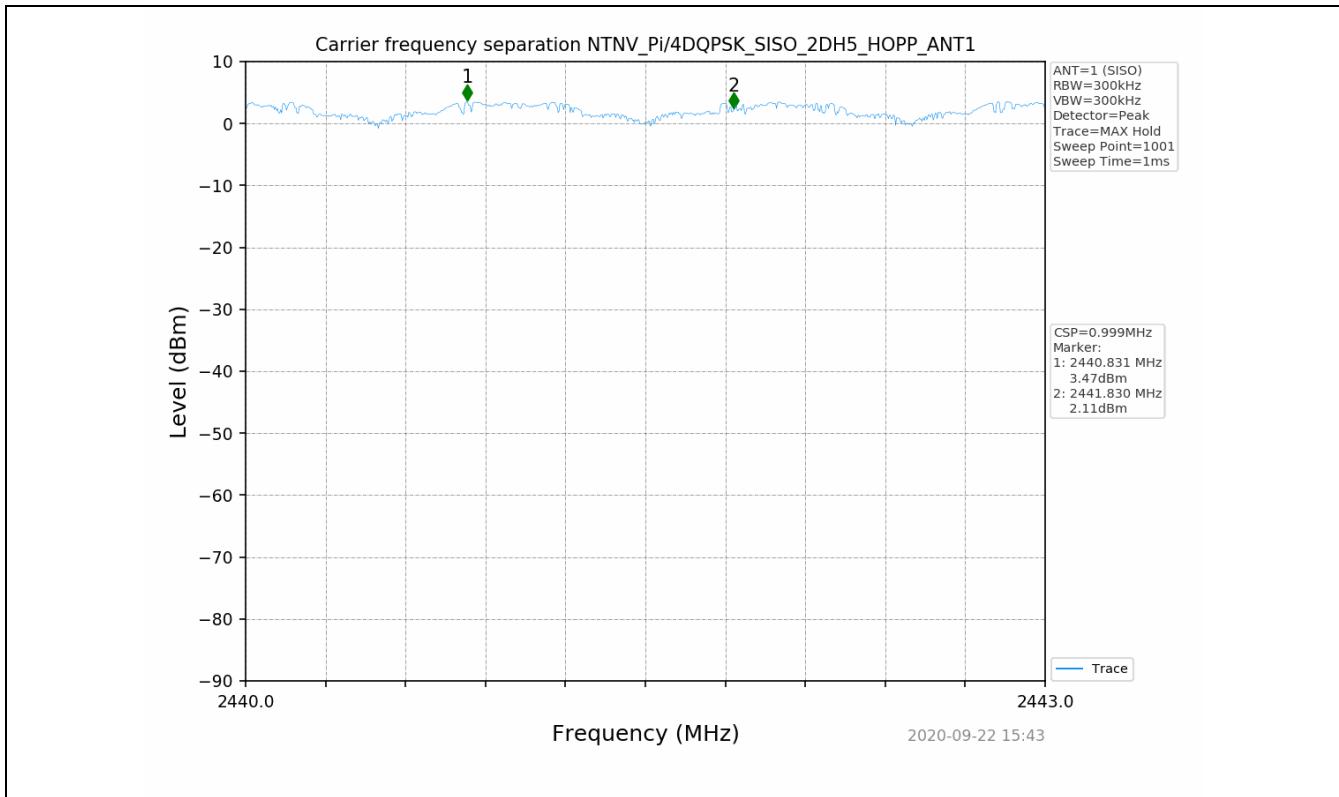
### 3. Carrier frequency separation

#### 3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.012	0.954	$\geq 0.954$	PASS
Pi/4DQPSK	SISO	1	0.999	1.353	$\geq 0.902$	PASS
8DPSK	SISO	1	1.020	1.331	$\geq 0.887$	PASS

#### 3.2 Test Graph



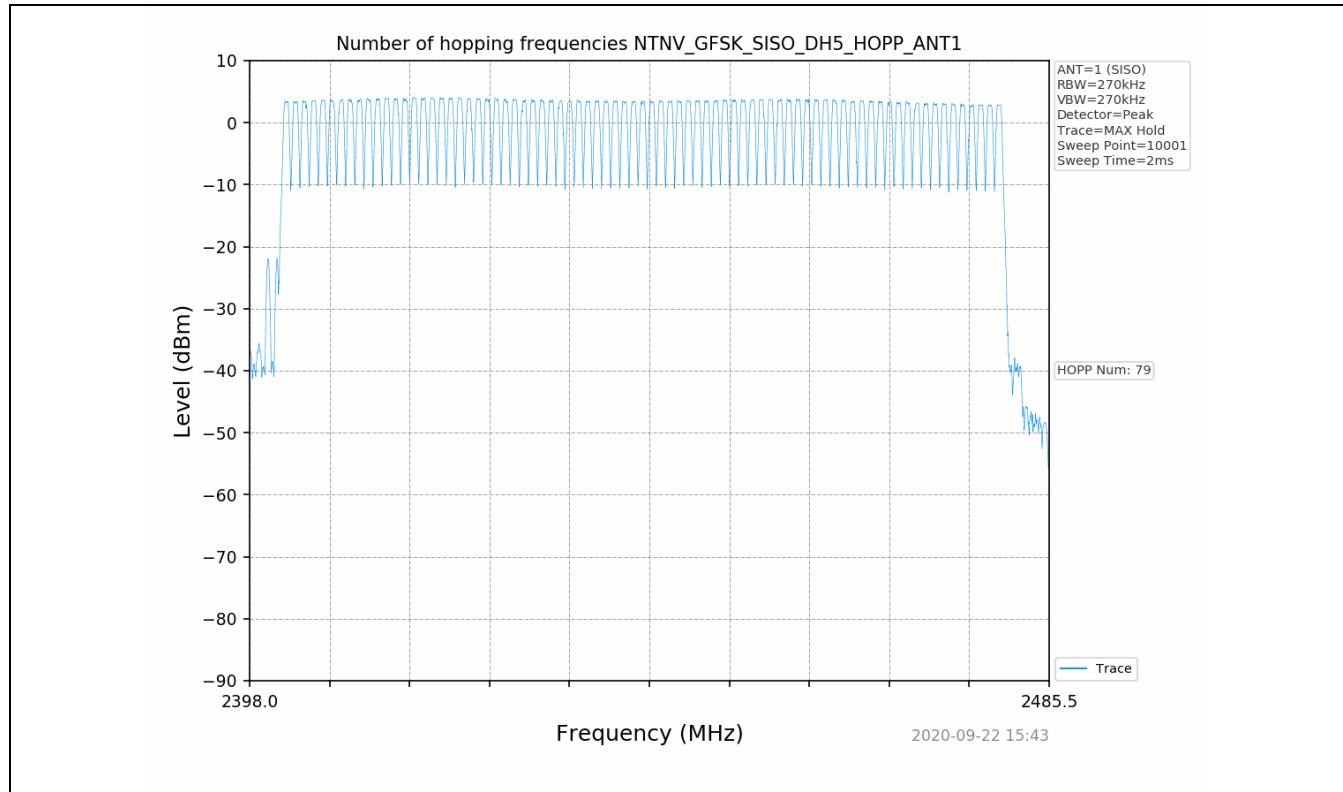


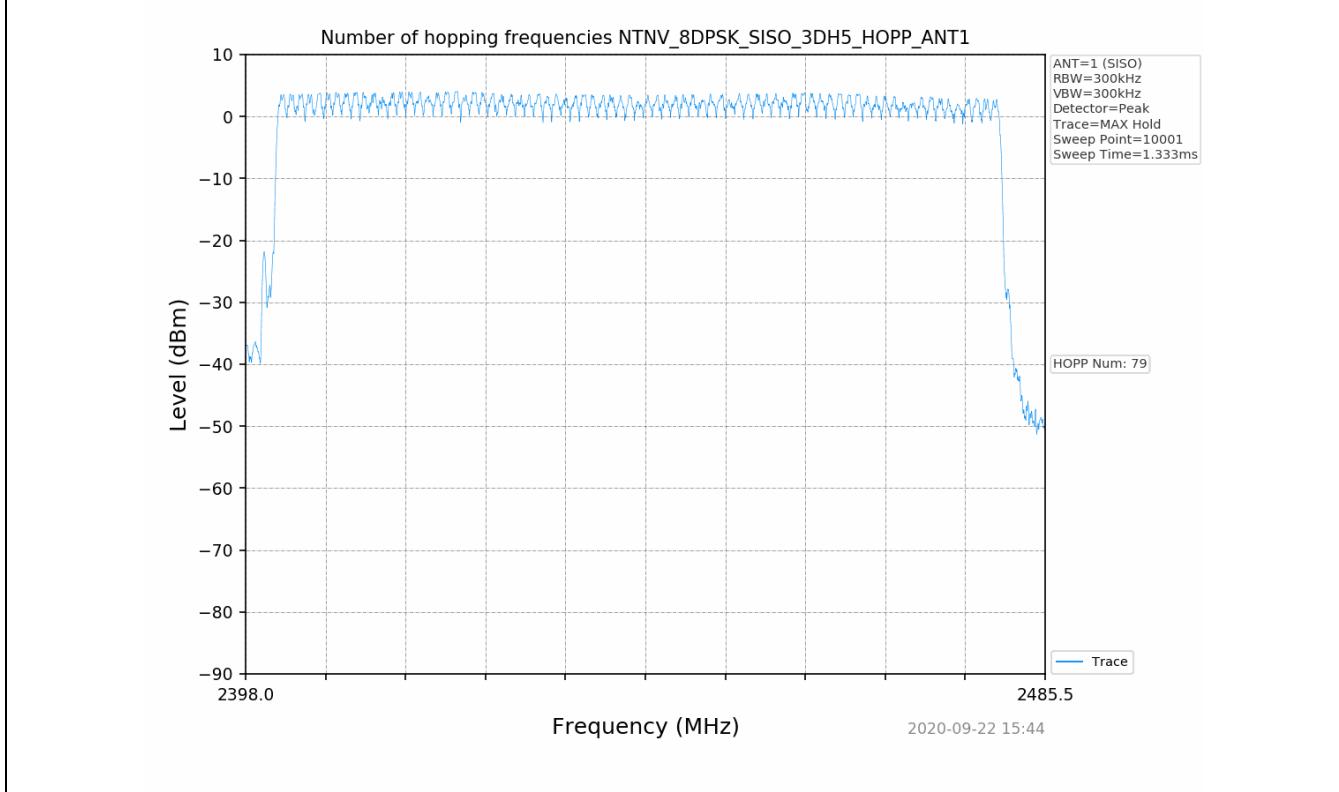
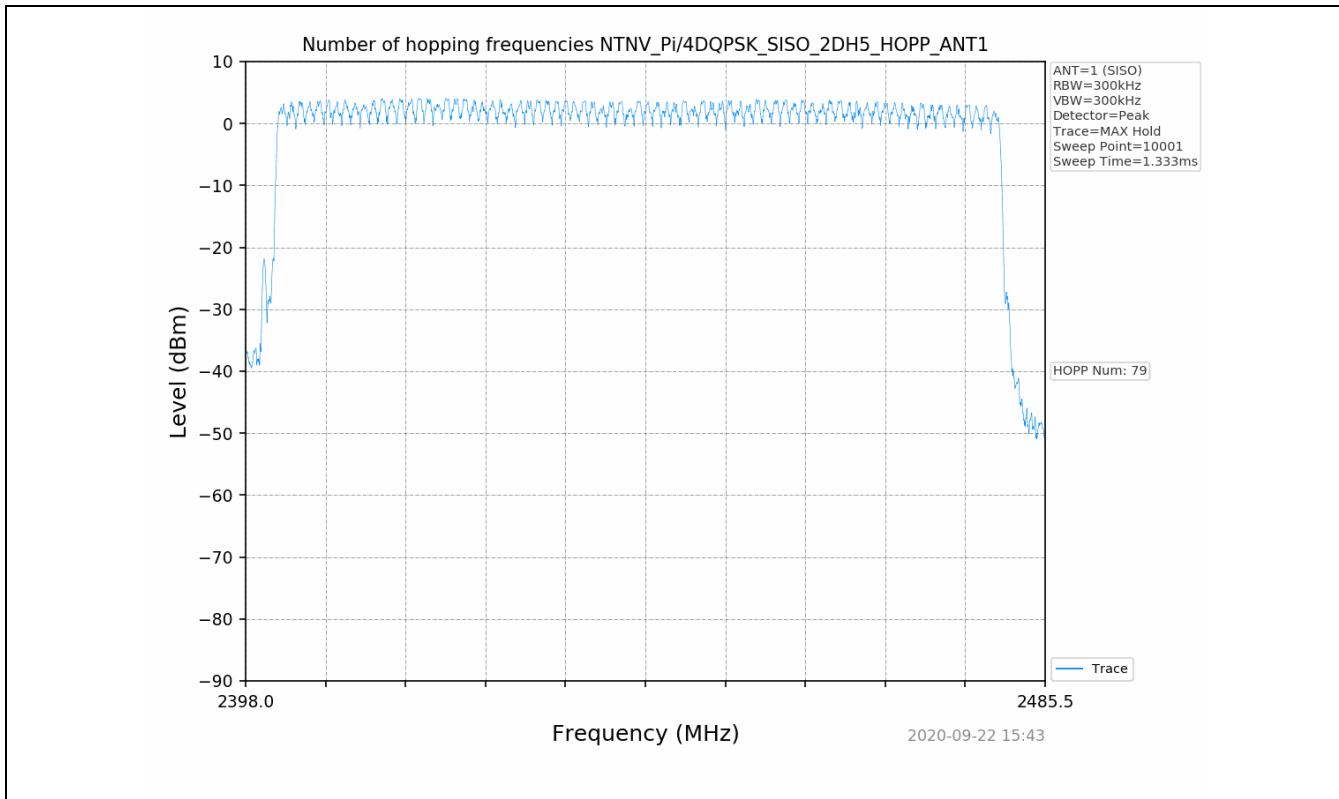
## 4. Number of hopping frequencies

### 4.1 Test Result

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

### 4.2 Test Graph





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

### 5.1 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	-16.59	PASS
	2441	SISO	1	Refer to test graph	-16.59	PASS
	2480	SISO	1	Refer to test graph	-16.59	PASS
	Hopping	SISO	1	Refer to test graph	-16.59	PASS
Pi/4DQPSK	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
8DPSK	2402	SISO	1	Refer to test graph	-16.63	PASS
	2441	SISO	1	Refer to test graph	-16.63	PASS
	2480	SISO	1	Refer to test graph	-16.63	PASS
	Hopping	SISO	1	Refer to test graph	-16.63	PASS

### 6.2 Test Graph

