

## Appendix for 15.247

### 1. Bandwidth

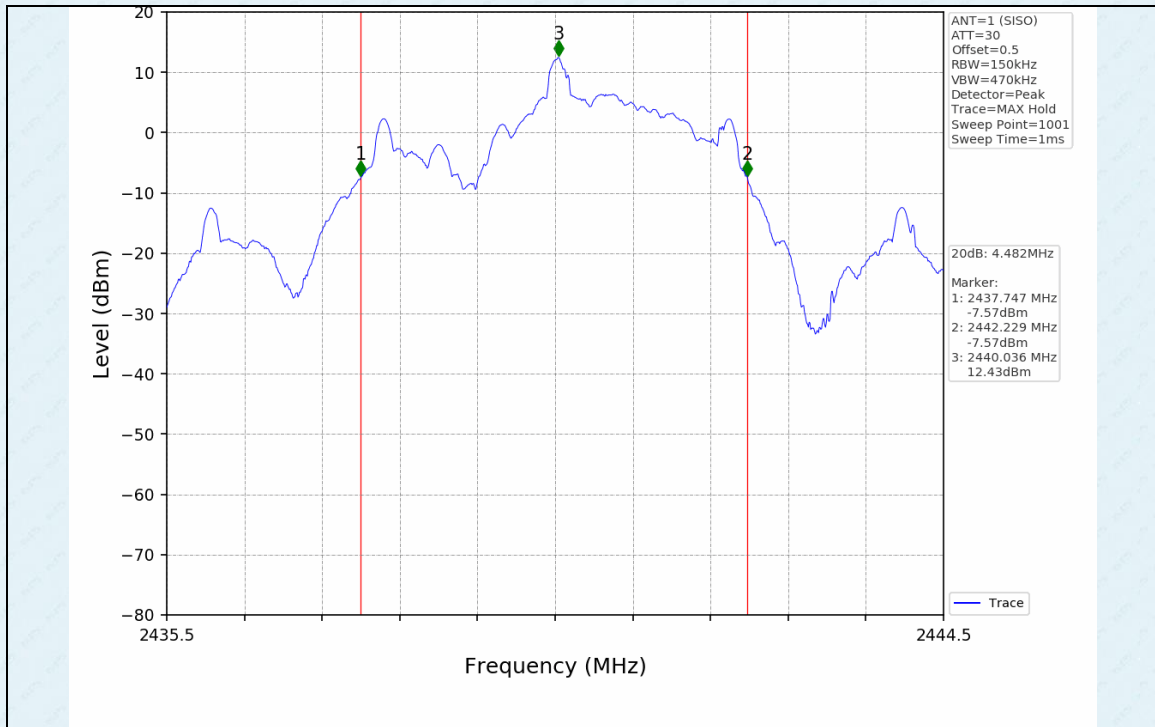
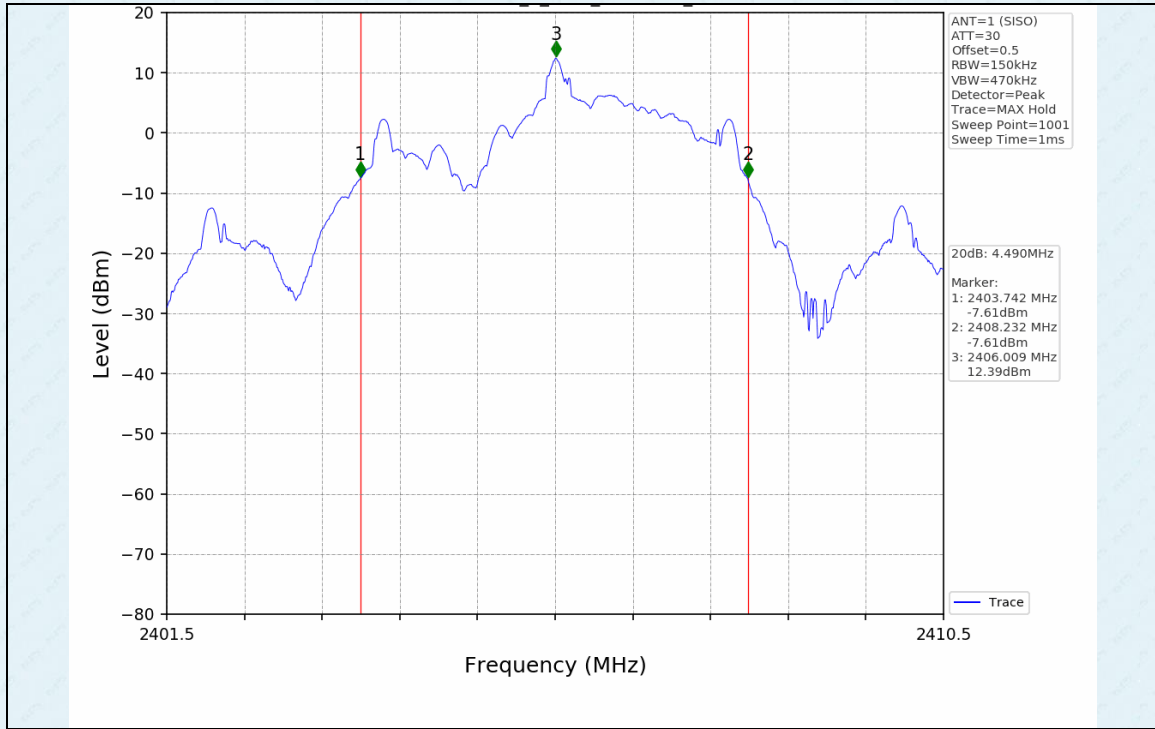
#### 1.1 Test Result

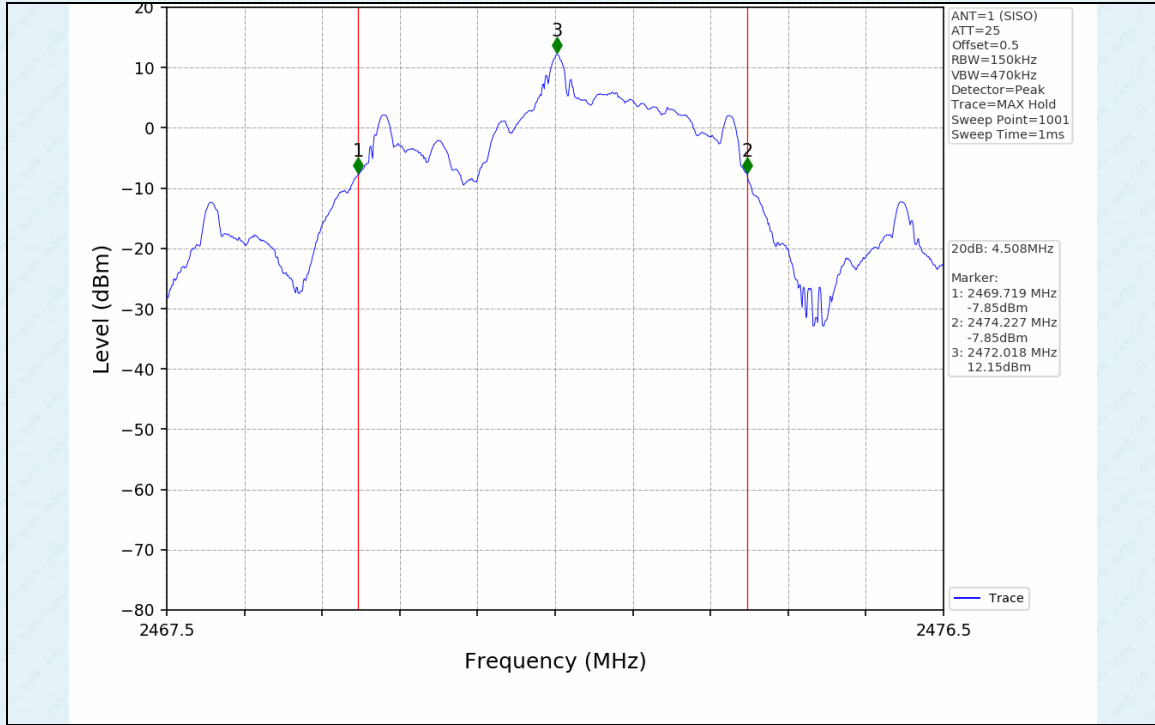
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
FHSS	2406	SISO	1	4.490	PASS
	2440	SISO	1	4.482	PASS
	2472	SISO	1	4.508	PASS
	2406	SISO	2	4.513	PASS
	2440	SISO	2	4.507	PASS
	2472	SISO	2	4.510	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	Verdict
				Test Result (MHz)	
FHSS	2406	SISO	1	4.521	Only for Report Use
	2440	SISO	1	4.641	Only for Report Use
	2472	SISO	1	4.637	Only for Report Use
	2406	SISO	2	4.529	Only for Report Use
	2440	SISO	2	4.534	Only for Report Use
	2472	SISO	2	4.512	Only for Report Use

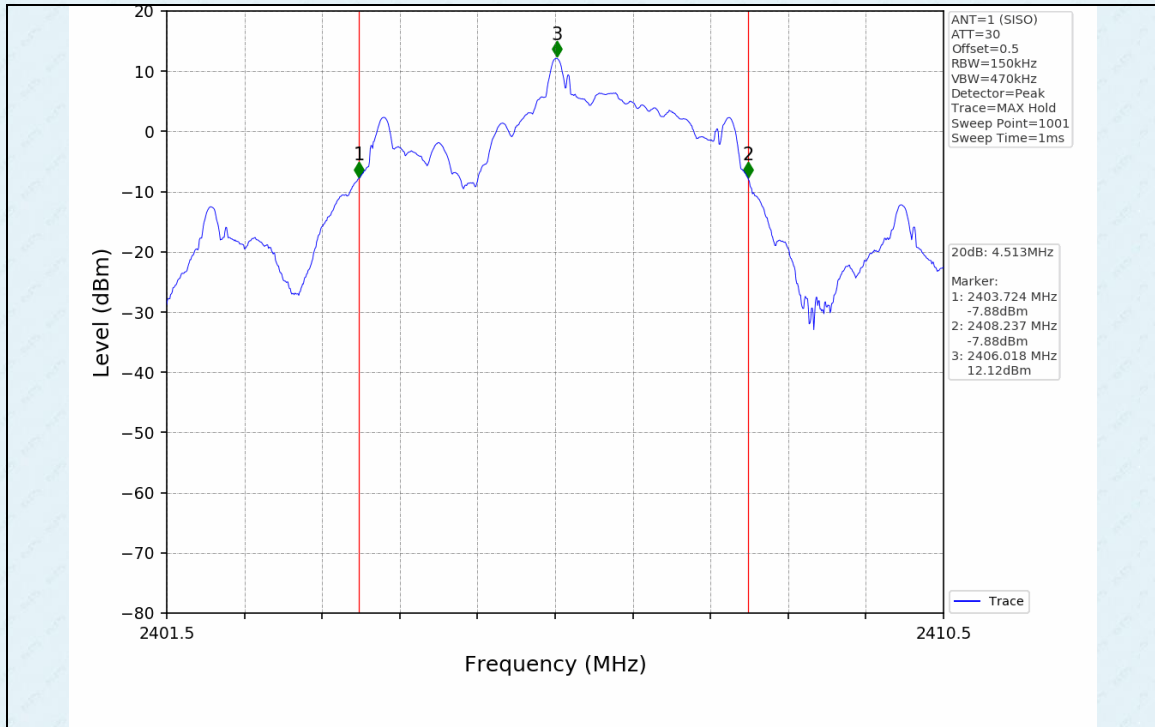
## 1.2 Test Graph - 20dB Bandwidth

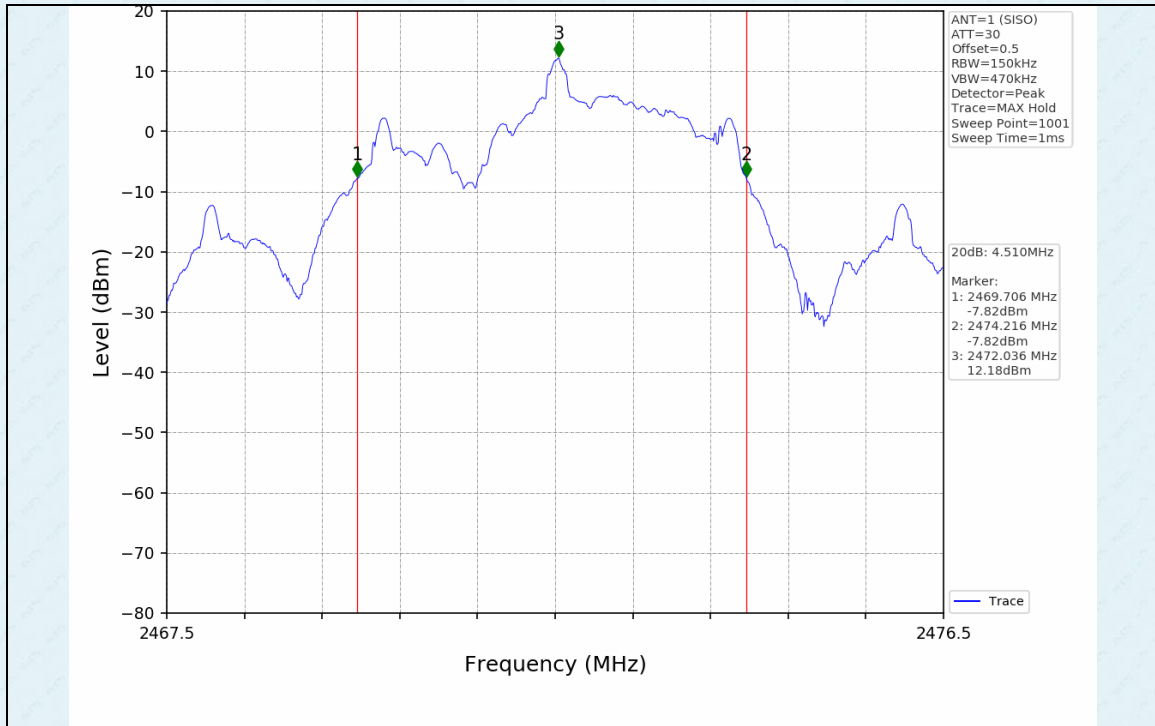
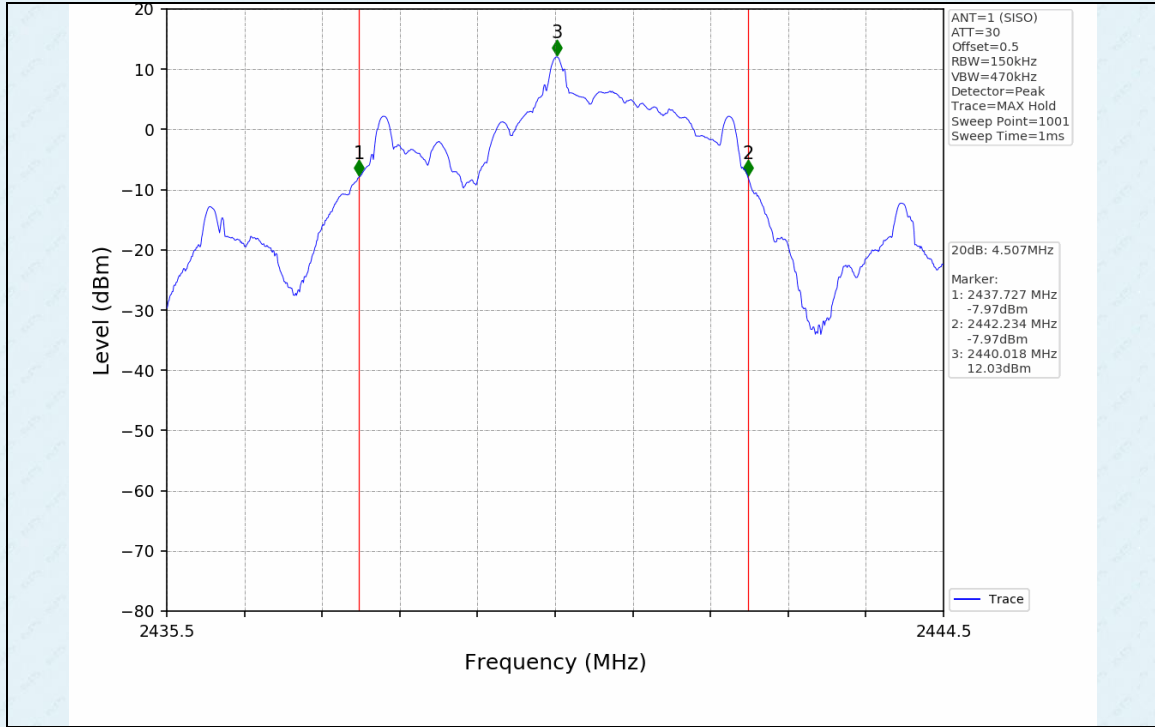
ANT 1:





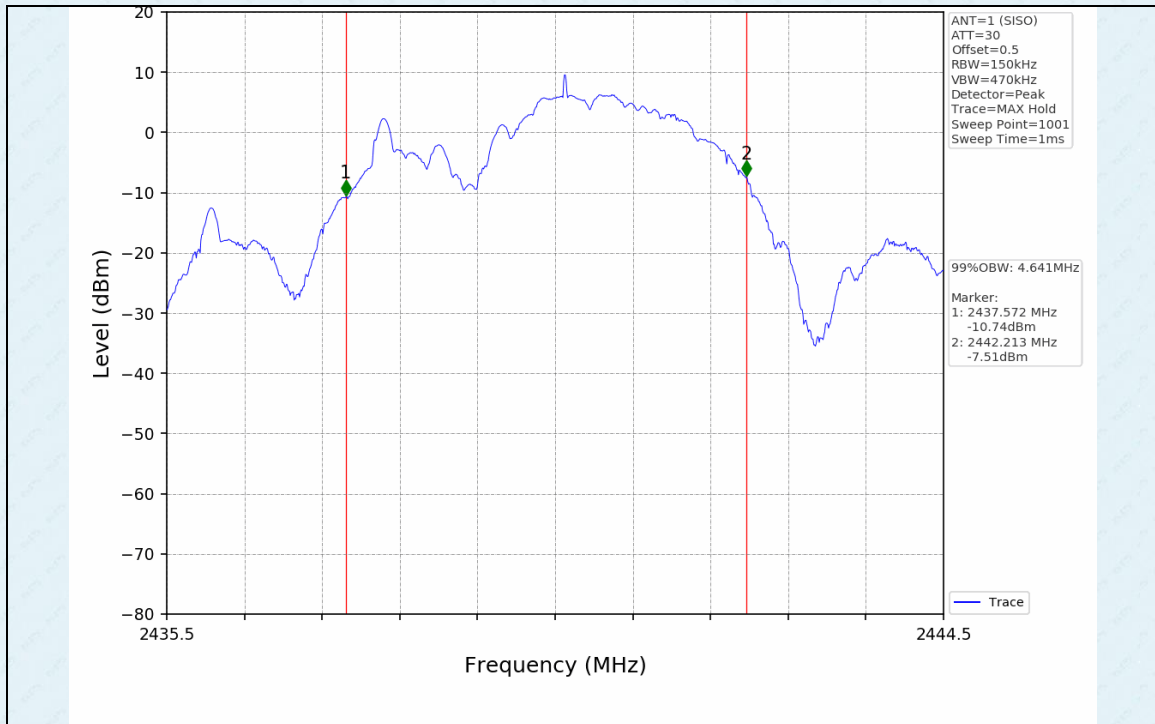
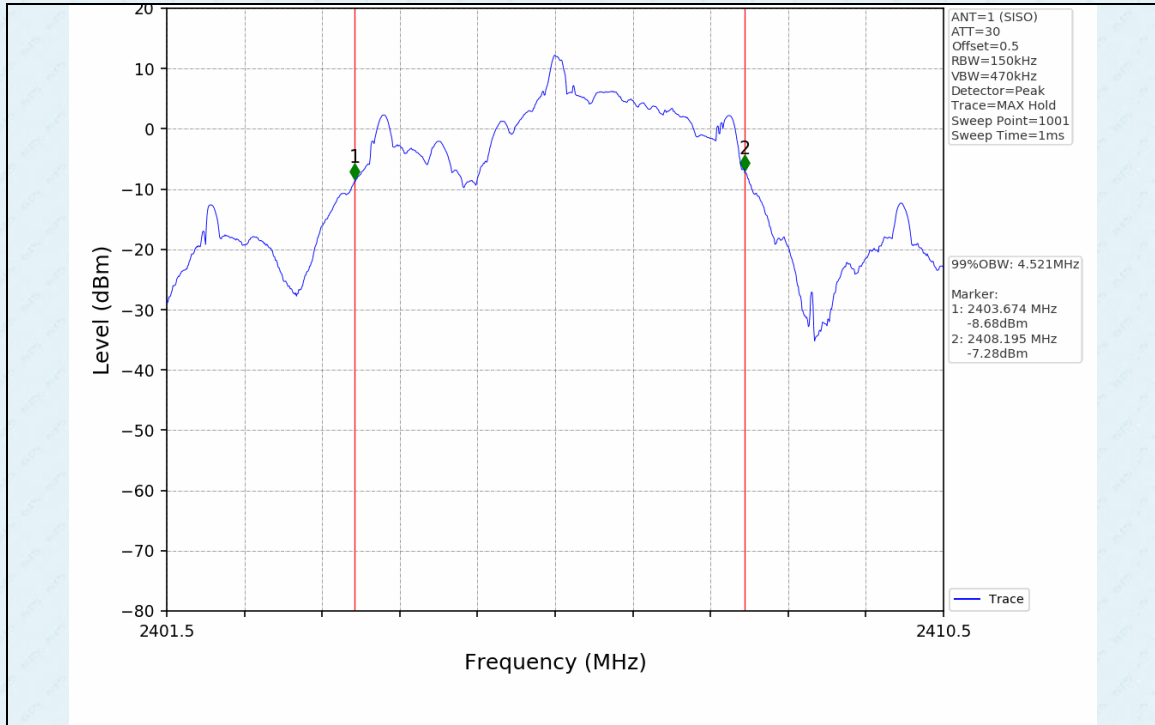
**ANT 2:**

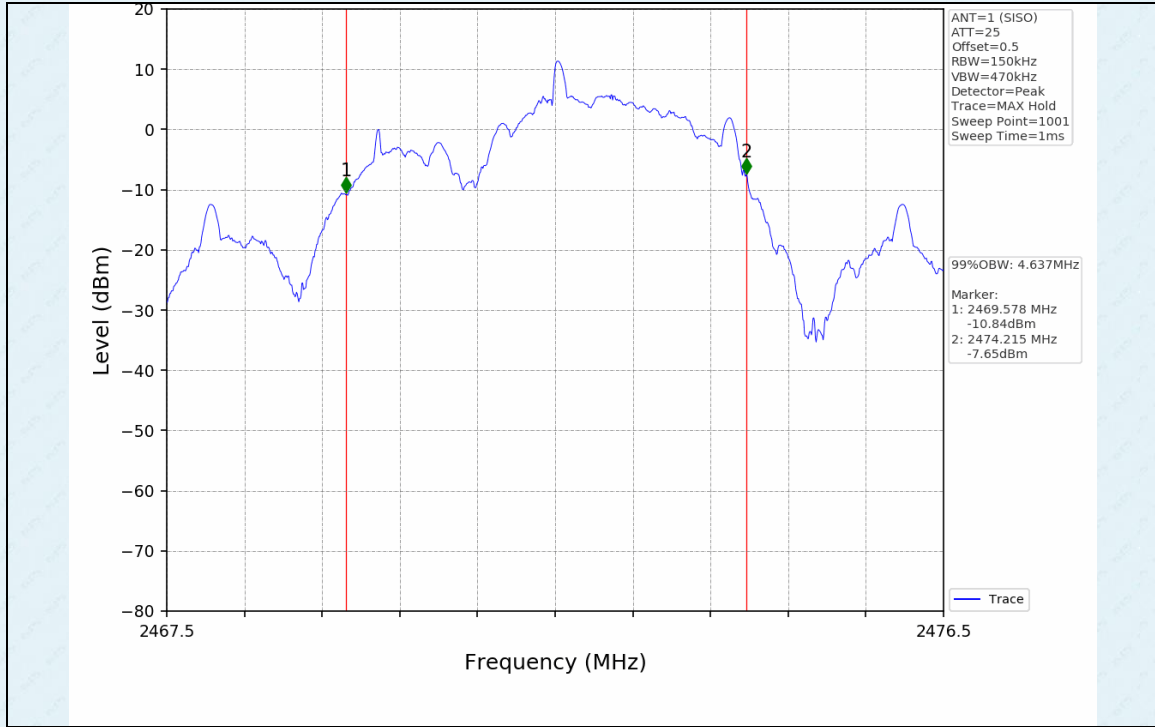




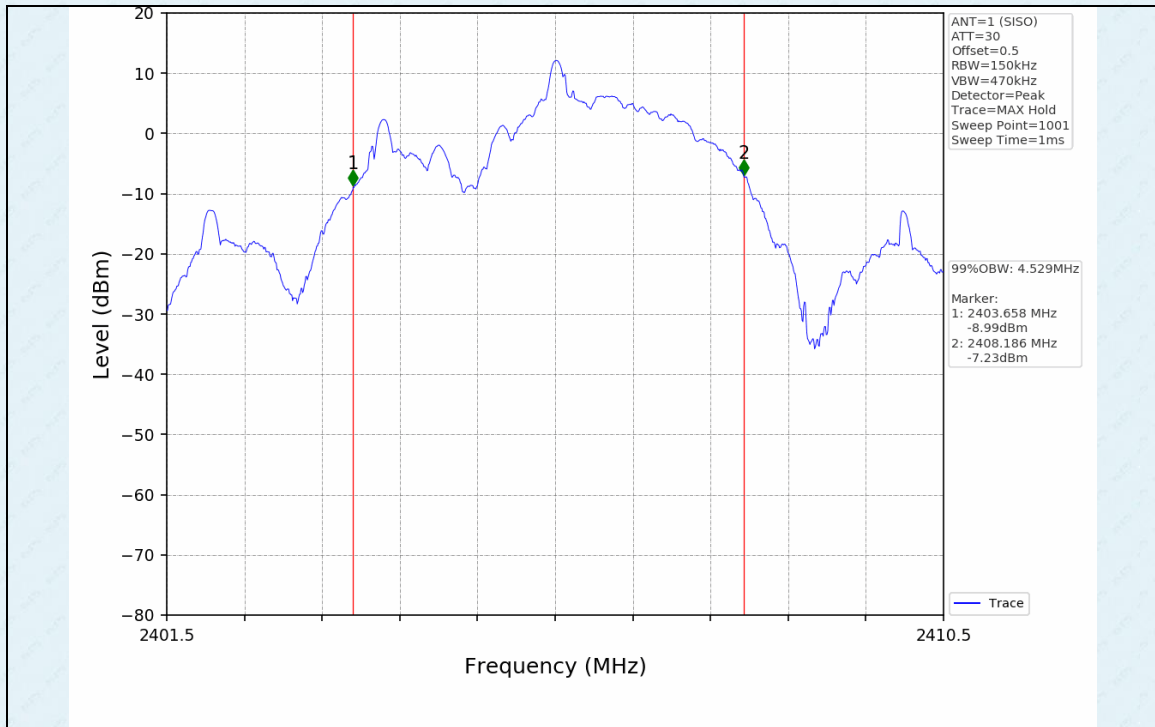
### 1.3 Test Graph - 99% Occupied Bandwidth

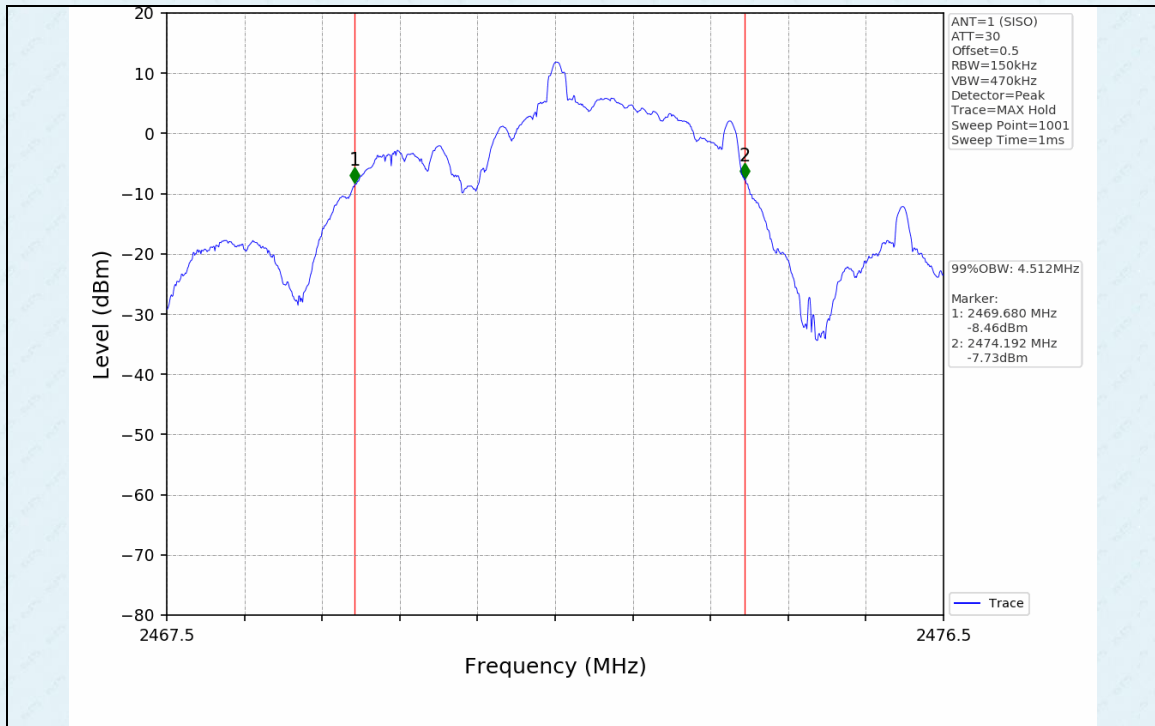
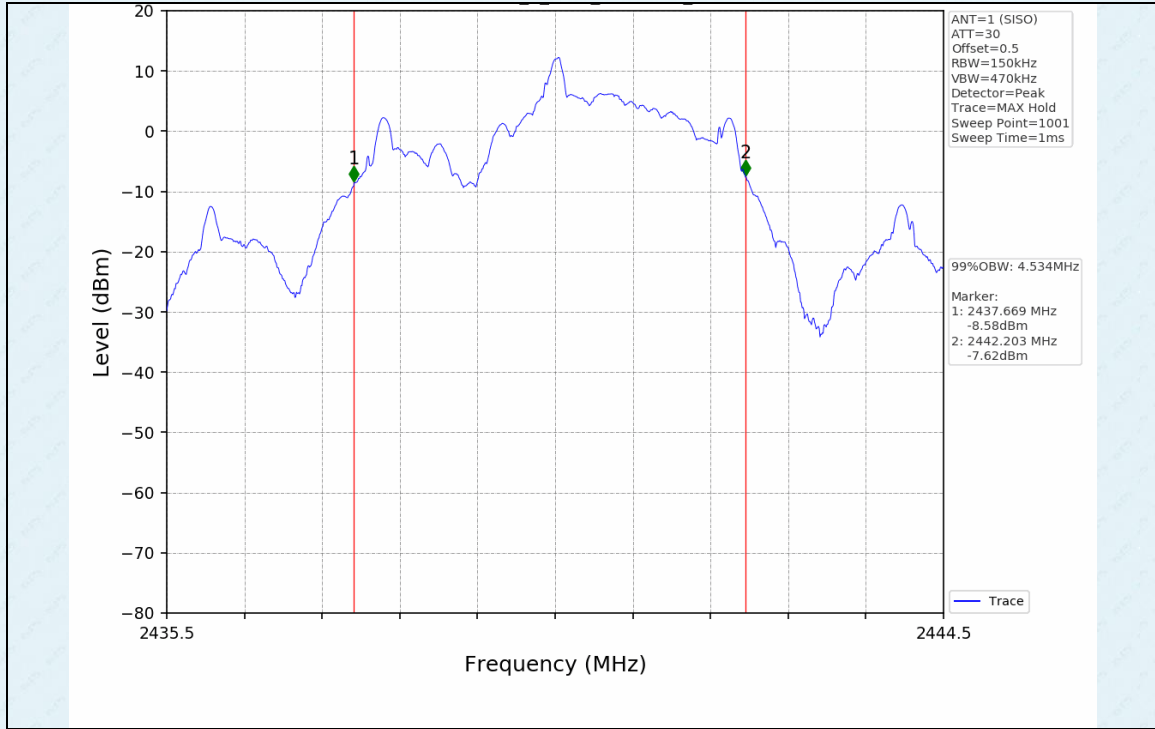
ANT 1:





## ANT 2:





## 2. Maximum Conducted Output Power

### 2.1 Test Result

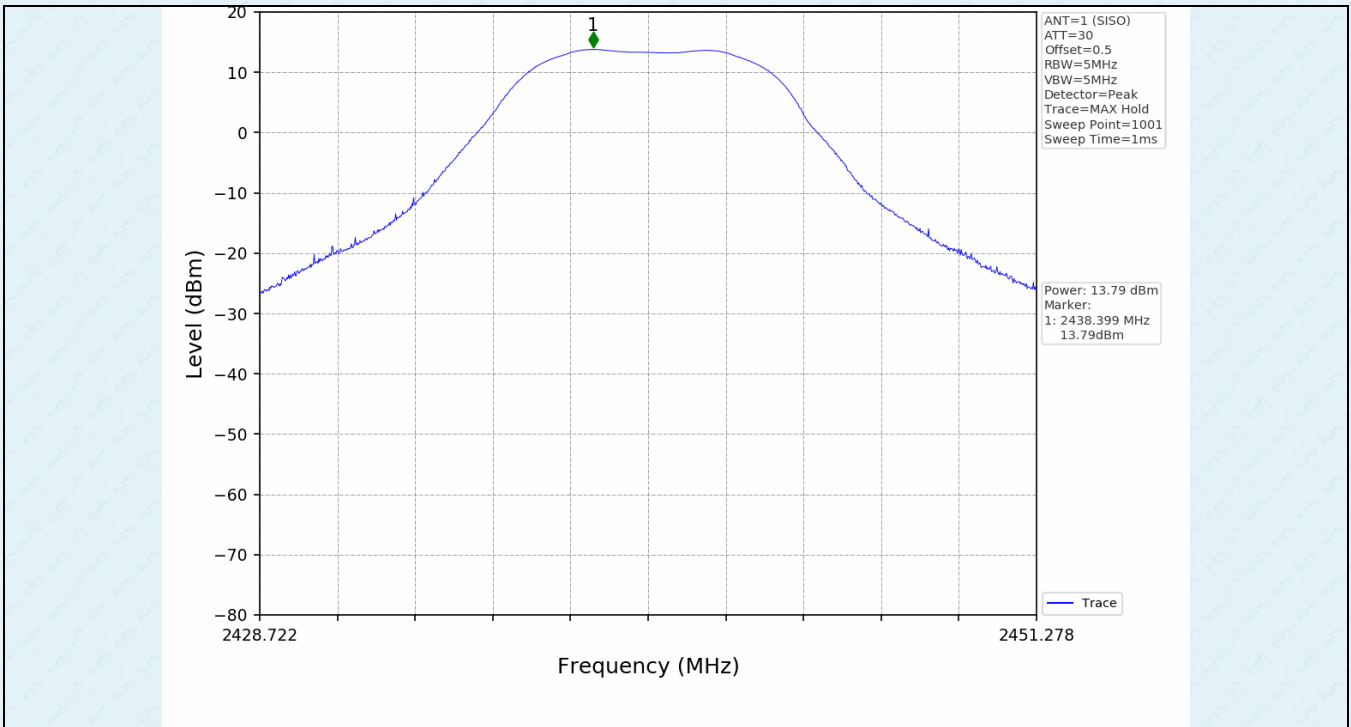
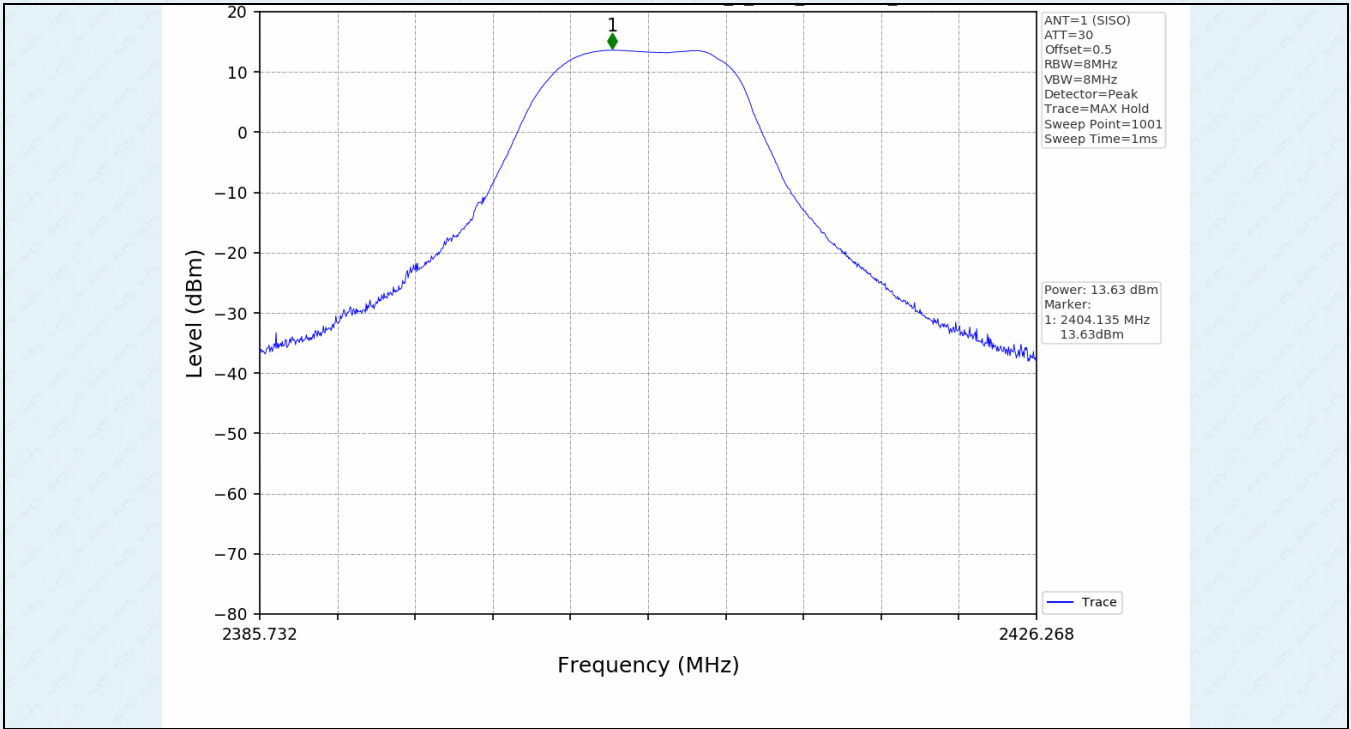
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
FHSS	2406	SISO	13.63	20.97	PASS
	2440	SISO	13.79	20.97	PASS
	2472	SISO	13.00	20.97	PASS

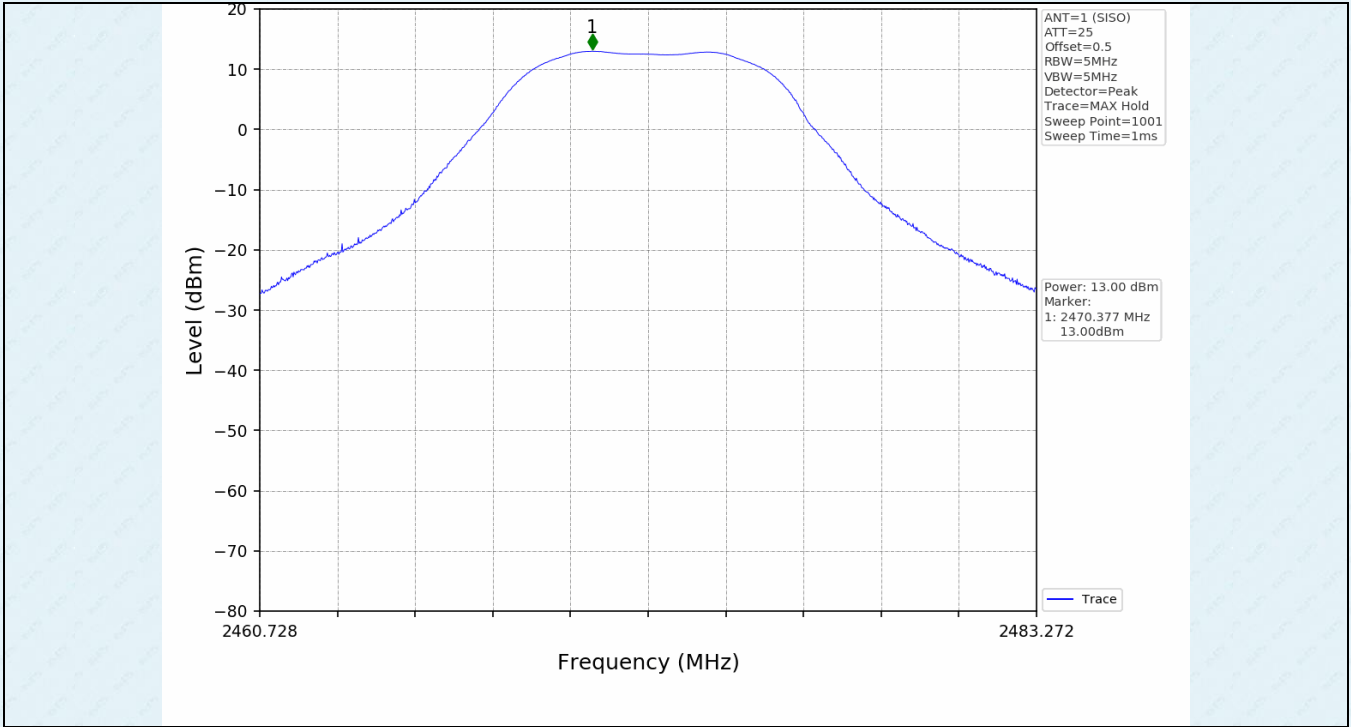
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
FHSS	2406	SISO	13.69	20.97	PASS
	2440	SISO	13.61	20.97	PASS
	2472	SISO	12.98	20.97	PASS



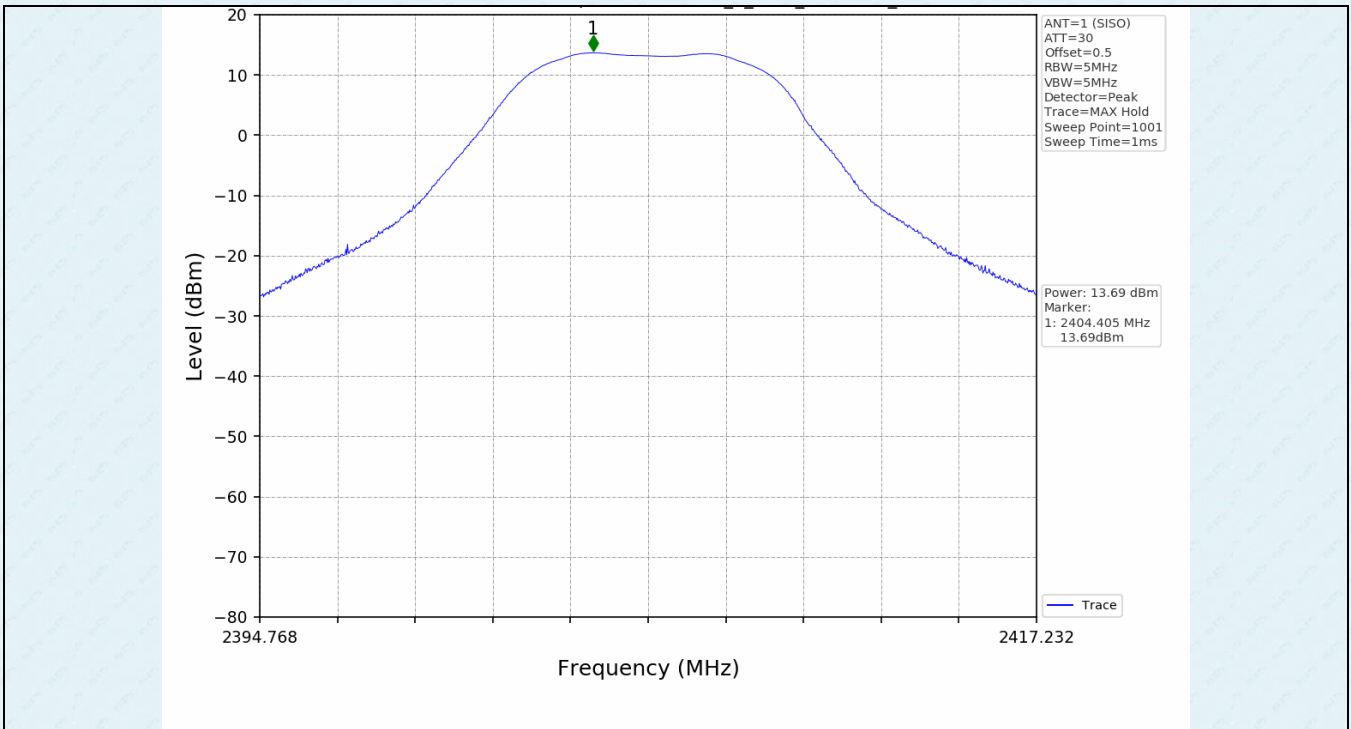
## 2.2 Test Graph

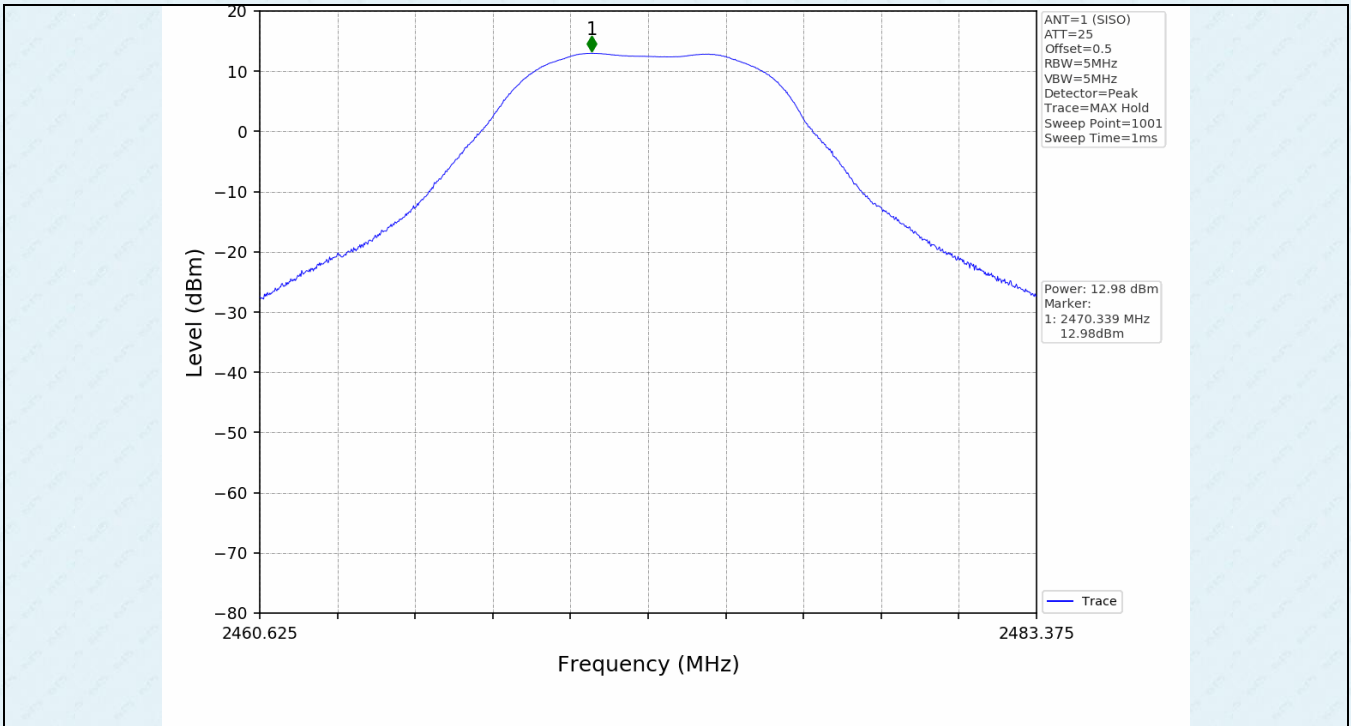
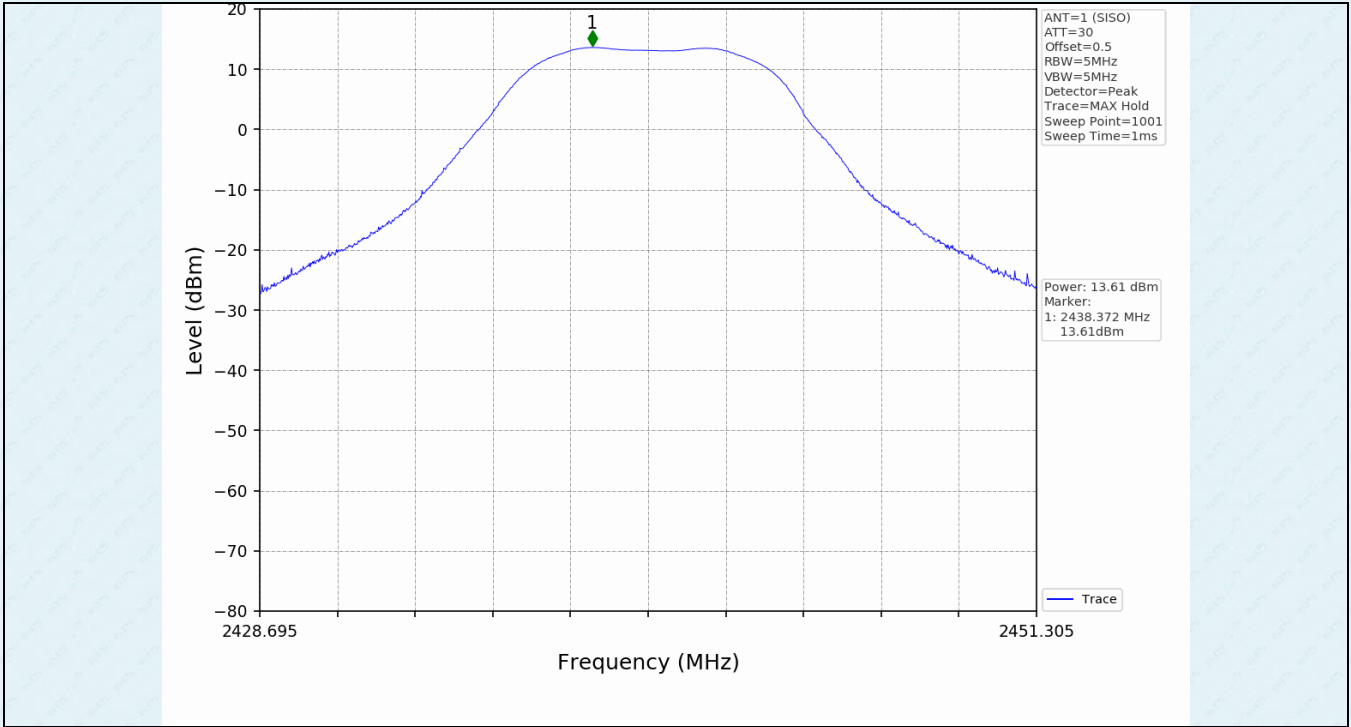
ANT 1:





## ANT 2:





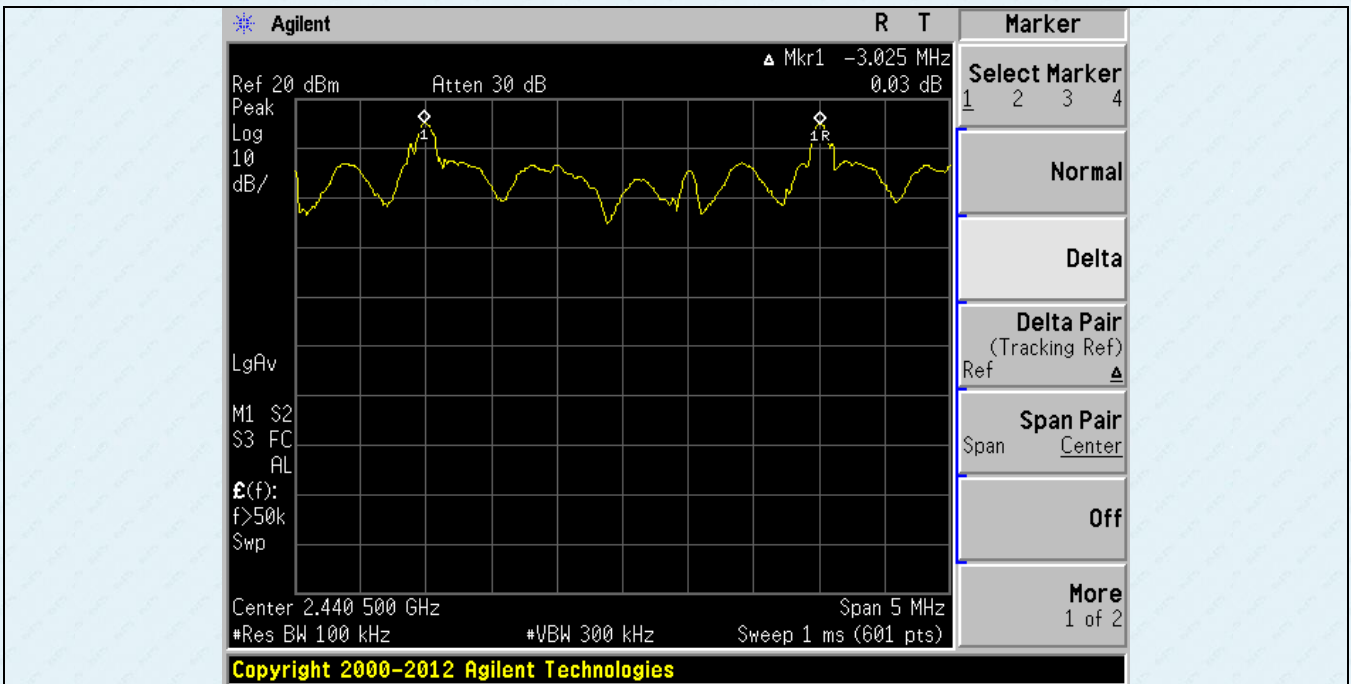
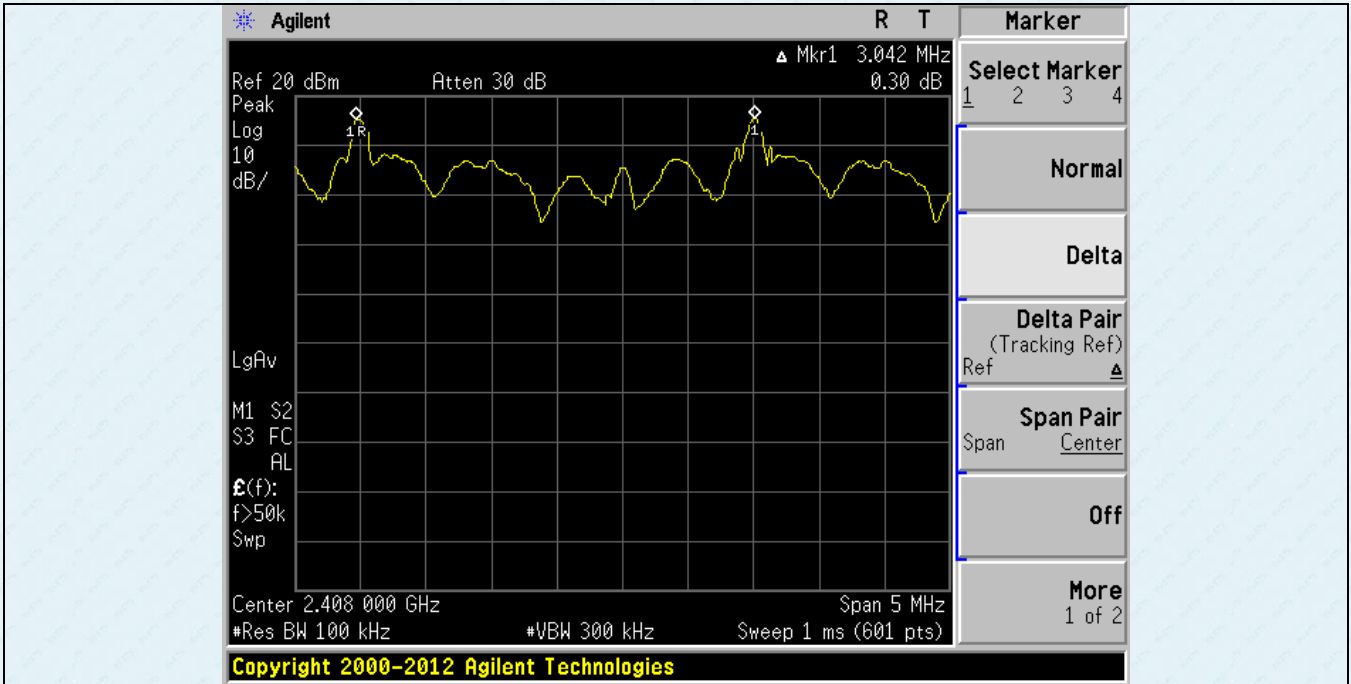
### 3. Carrier frequency separation

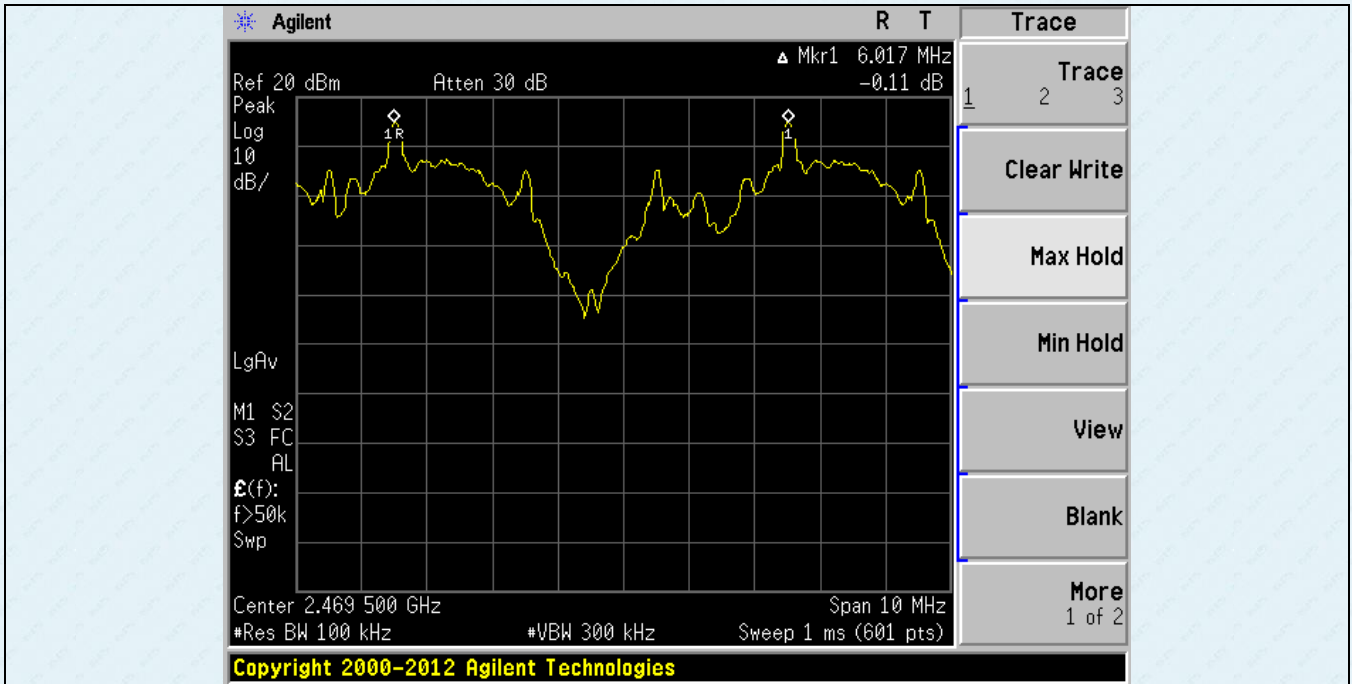
#### 3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
1	Lowest	3.042	2.993	Pass
	Middle	3.025	2.988	Pass
	Highest	6.017	3.005	Pass
2	Lowest	3.025	3.009	Pass
	Middle	3.025	3.005	Pass
	Highest	6.000	3.007	Pass

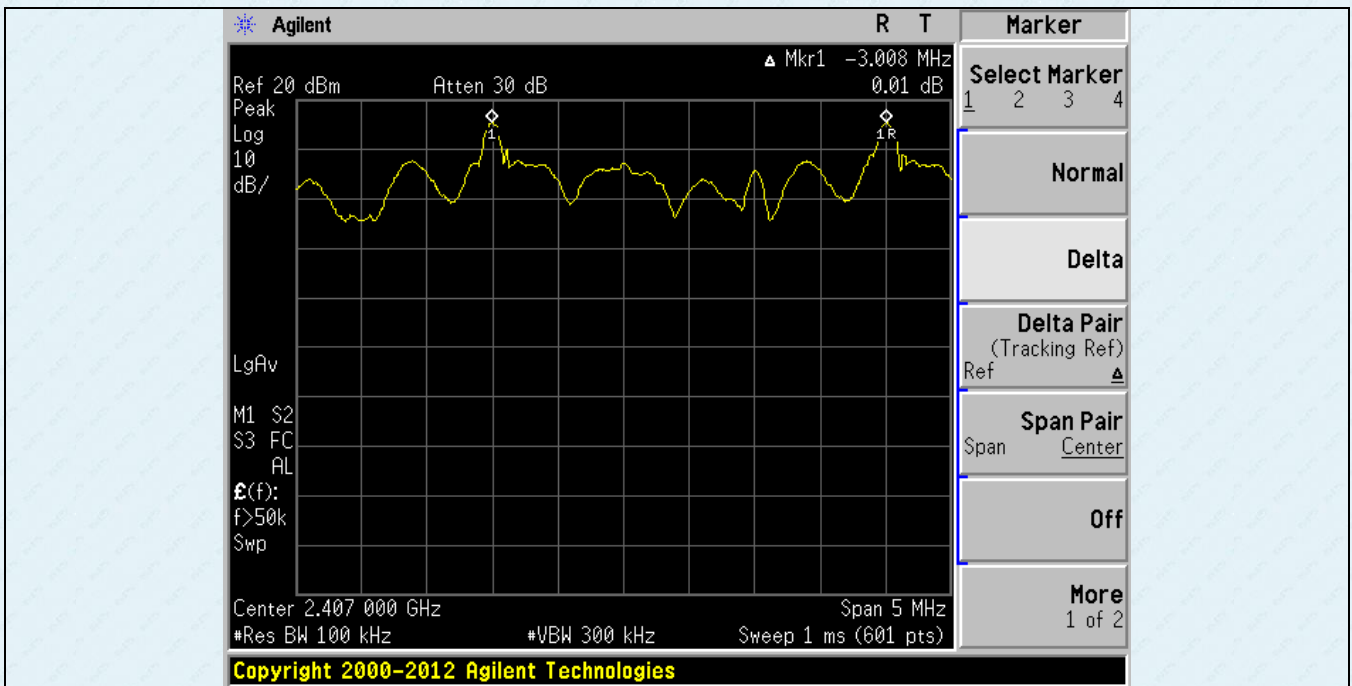
### 3.2 Test Graph

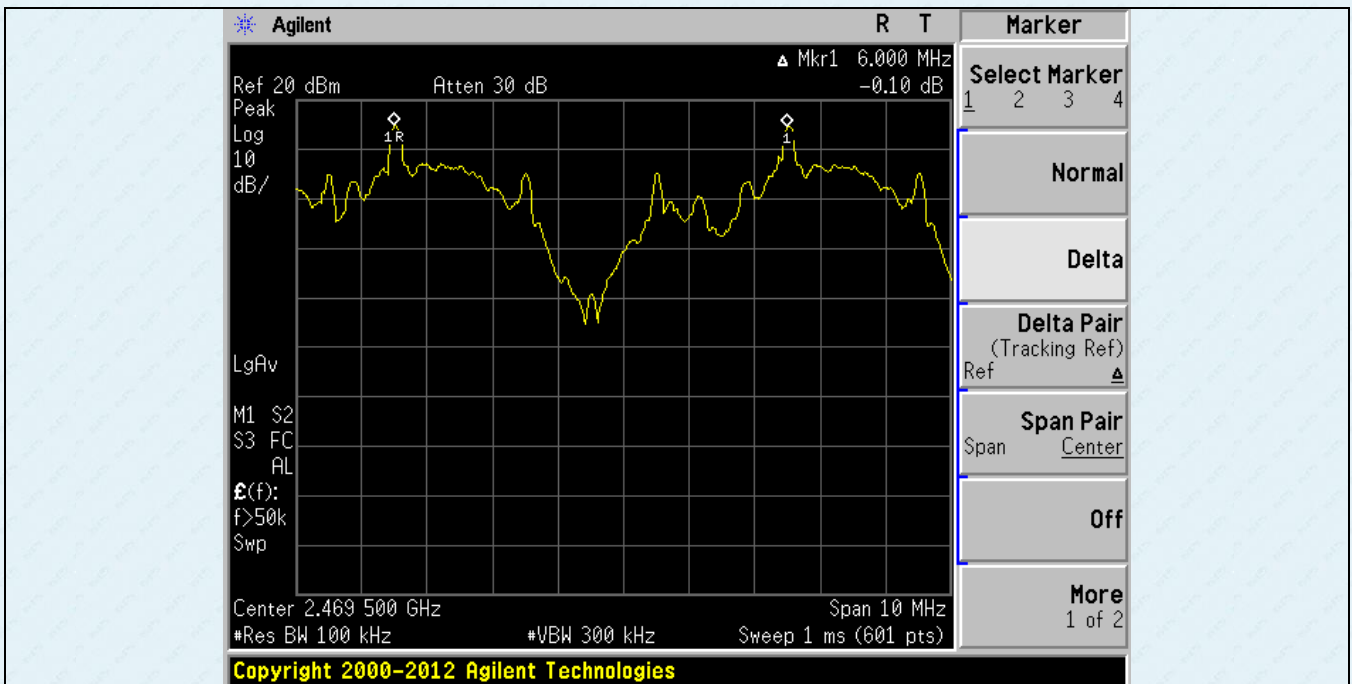
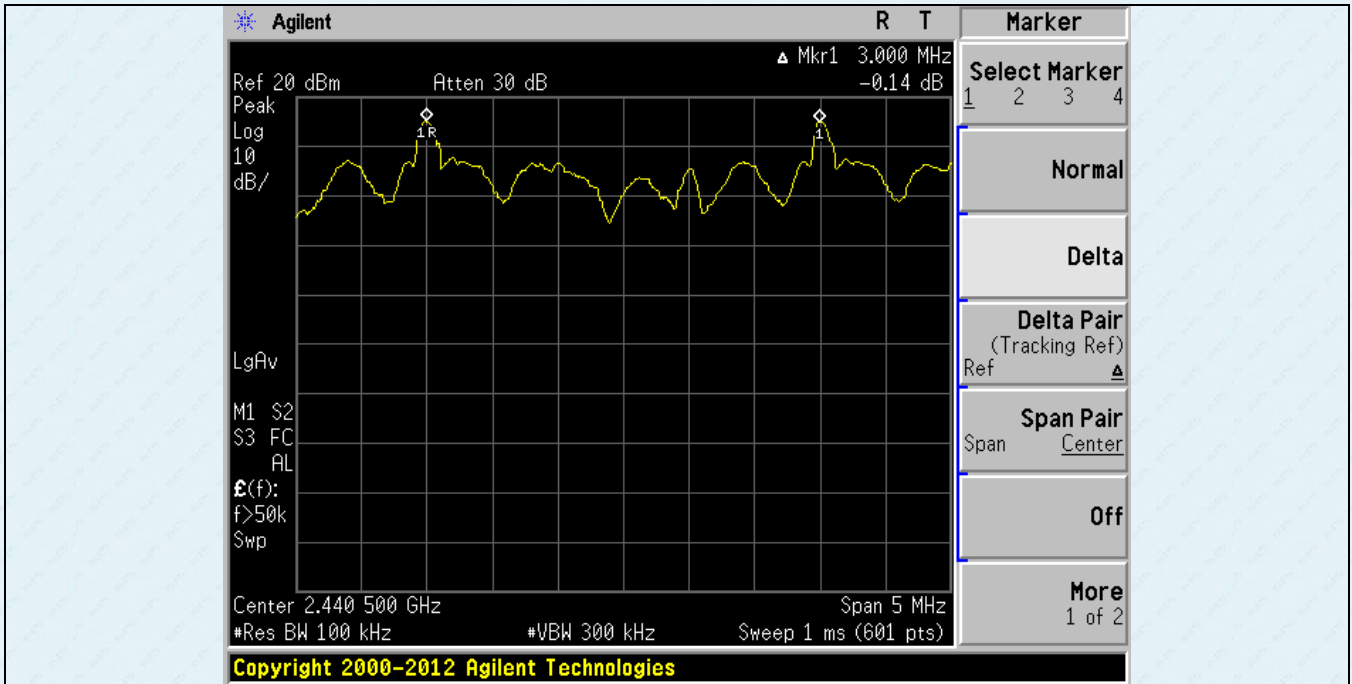
ANT 1:





ANT 2:





## 4. Number of hopping frequencies

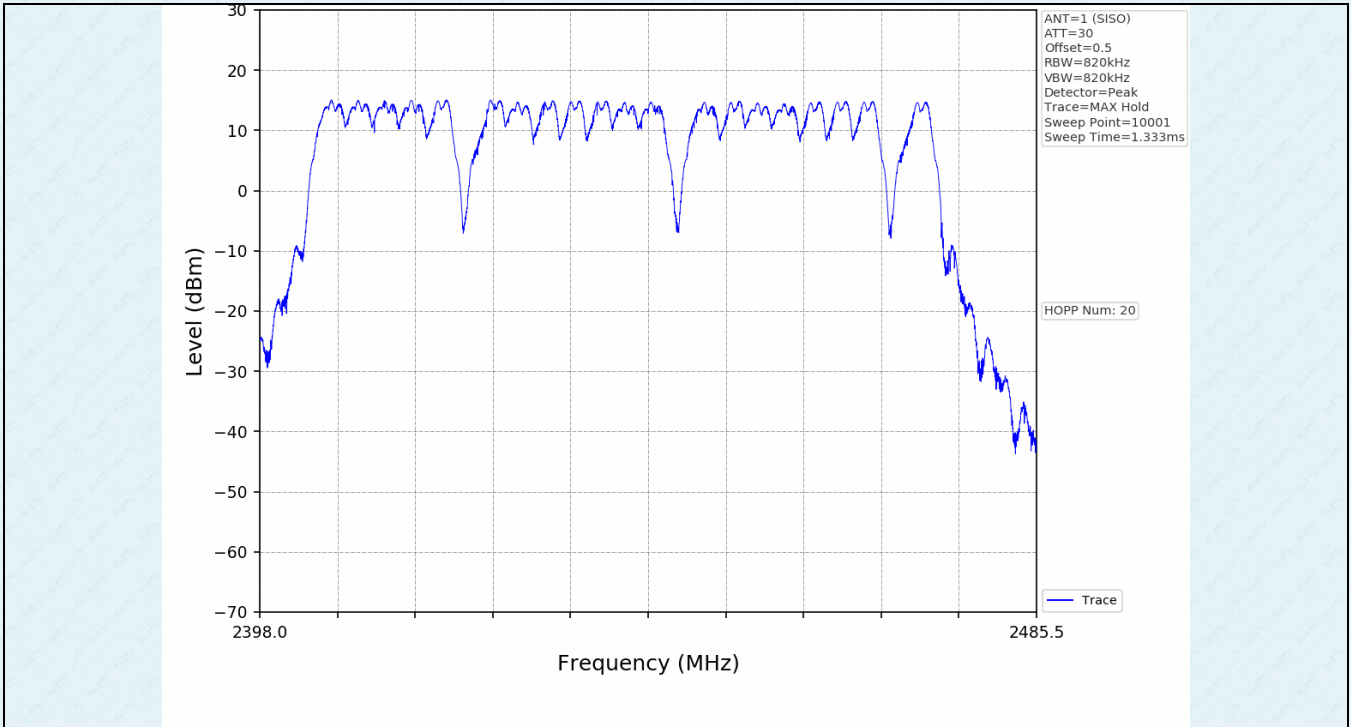
### 4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
FHSS	SISO	1	20	≥15	PASS
	SISO	2	20	≥15	PASS

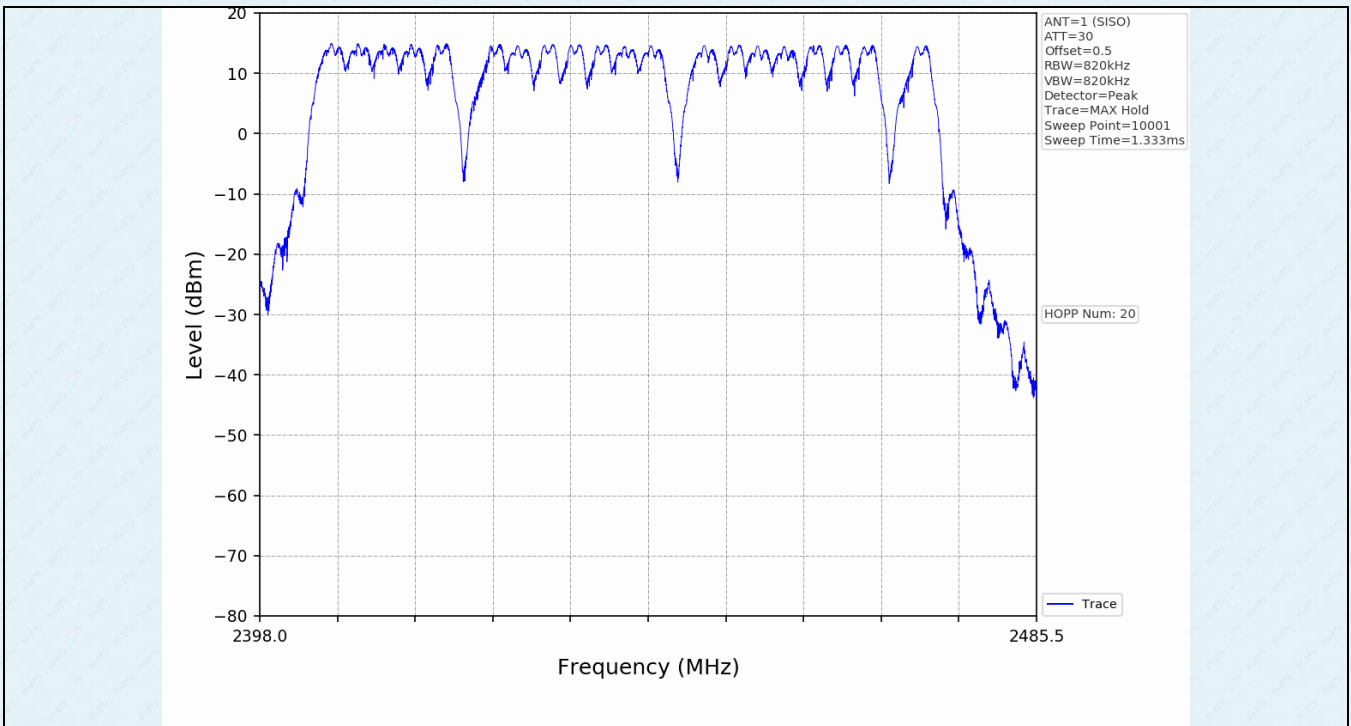


## 4.2 Test Graph

ANT 1:



ANT 2:



## 5. Time of occupancy (dwell time)

### 5.1 Test Result

ANT No.	Test channel	Ton (ms)	Dwell time(ms)	Limit(ms)	Result
1	Lowest	4.1330	66.1280	400	Pass
	Middle	4.0670	65.0720	400	Pass
	Highest	4.1330	66.1280	400	Pass
2	Lowest	4.1330	66.1280	400	Pass
	Middle	4.0670	65.0720	400	Pass
	Highest	4.1000	65.6000	400	Pass

The formula as below:

ANT 1:

Lowest: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.1330ms\*2\*0.4\*20=66.1280ms

Middle: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.0670ms\*2\*0.4\*20=65.0720ms

Highest: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.1330ms\*2\*0.4\*20=66.1280ms

ANT 2:

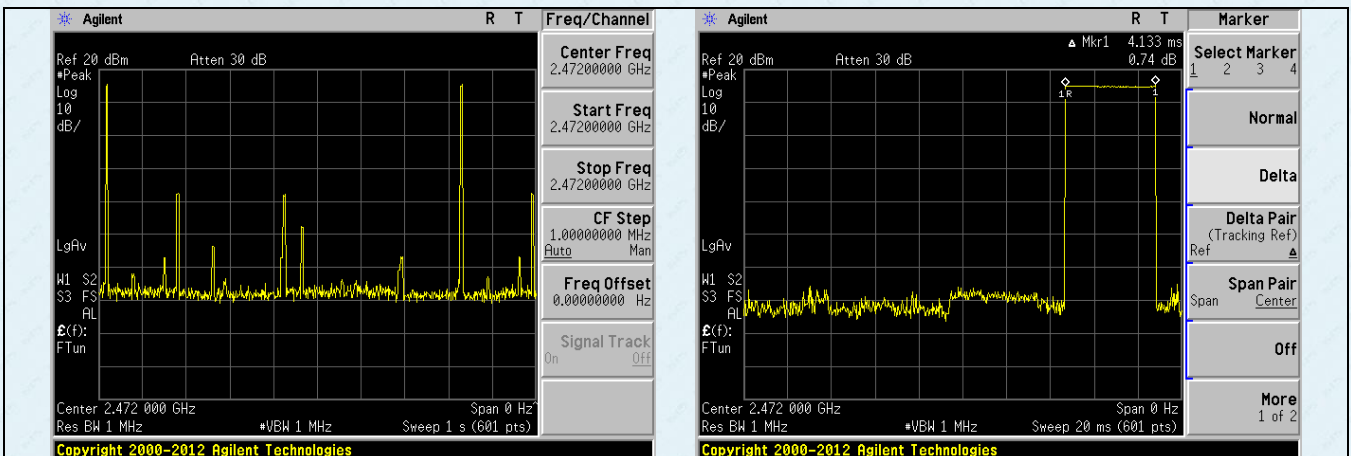
Lowest: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.1330ms\*2\*0.4\*20=66.1280ms

Middle: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.0670ms\*2\*0.4\*20=65.0720ms

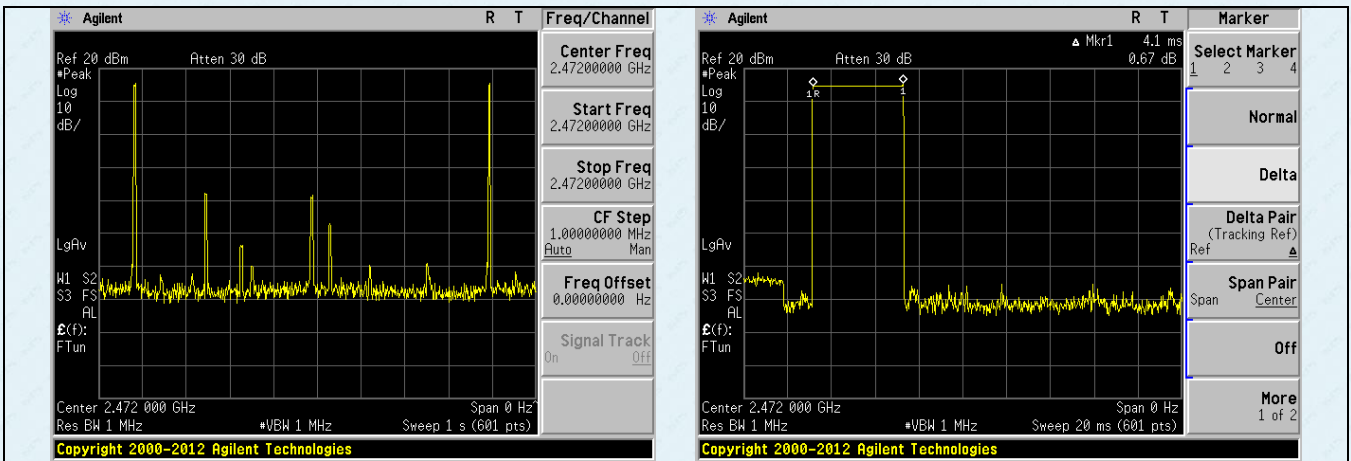
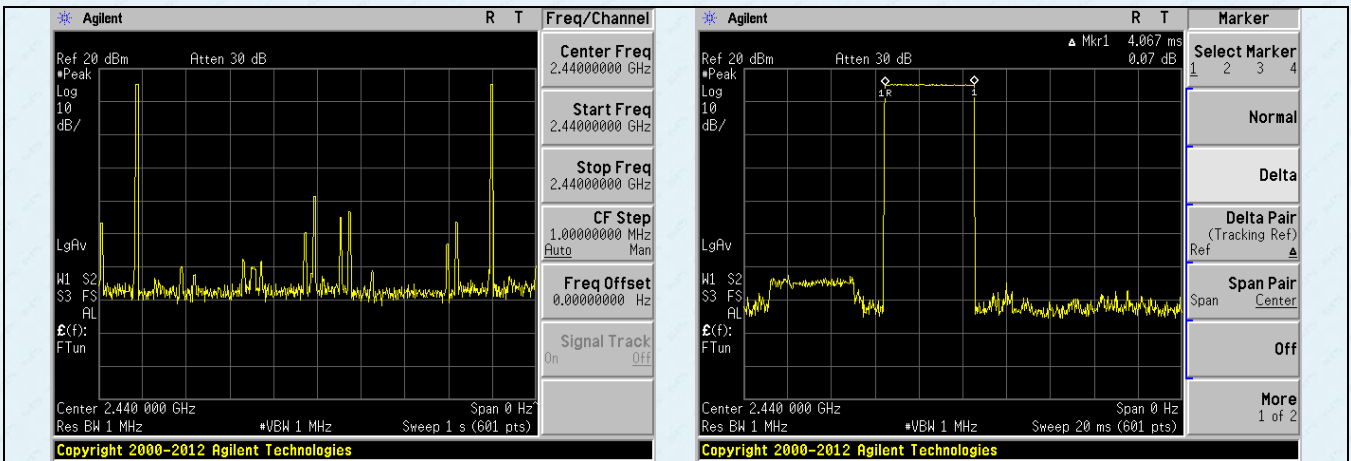
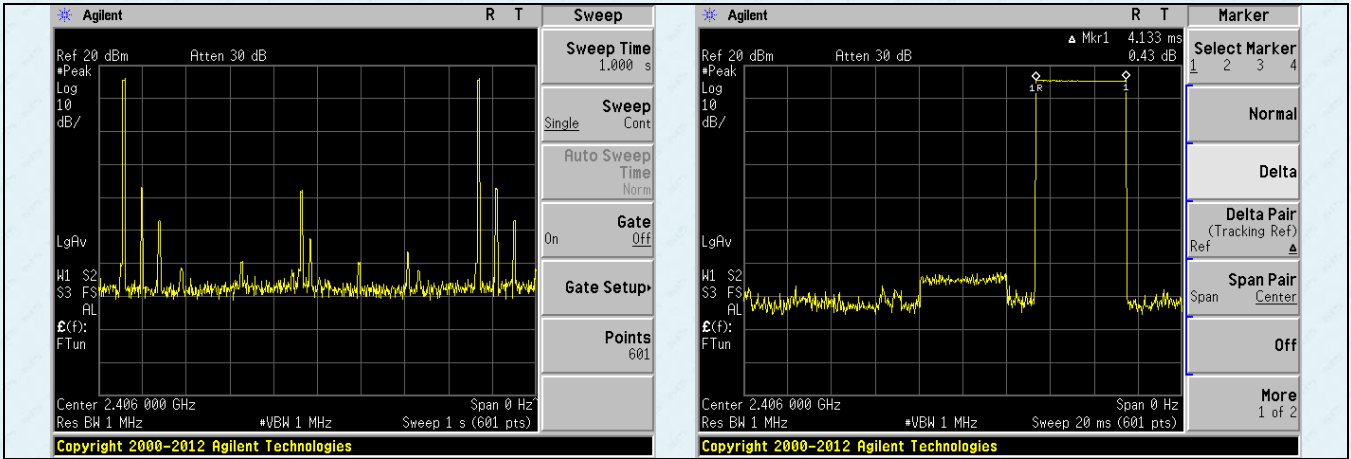
Highest: Dwell time = Ton \* Ton times in 1s \* 0.4s \* channel numbers=4.1000ms\*2\*0.4\*20=65.6000ms

## 5.2 Test Graph

### ANT 1:



**ANT 2:**



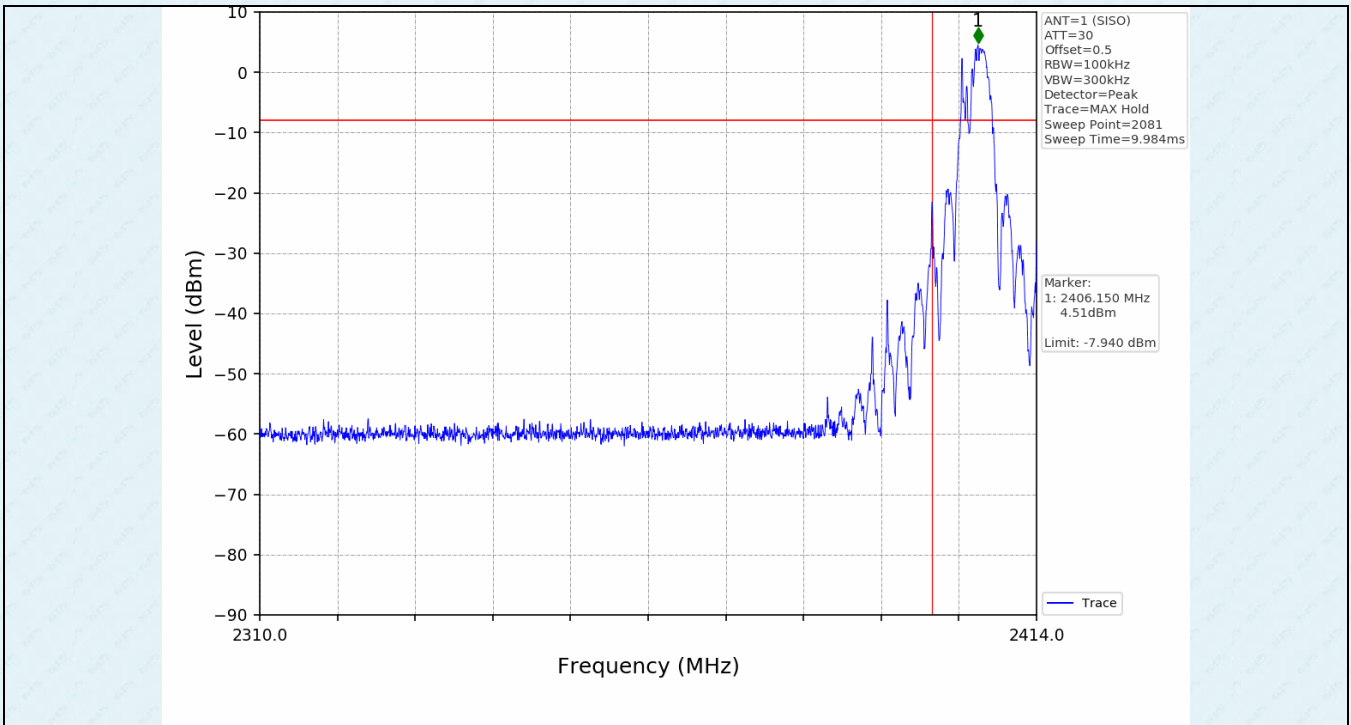
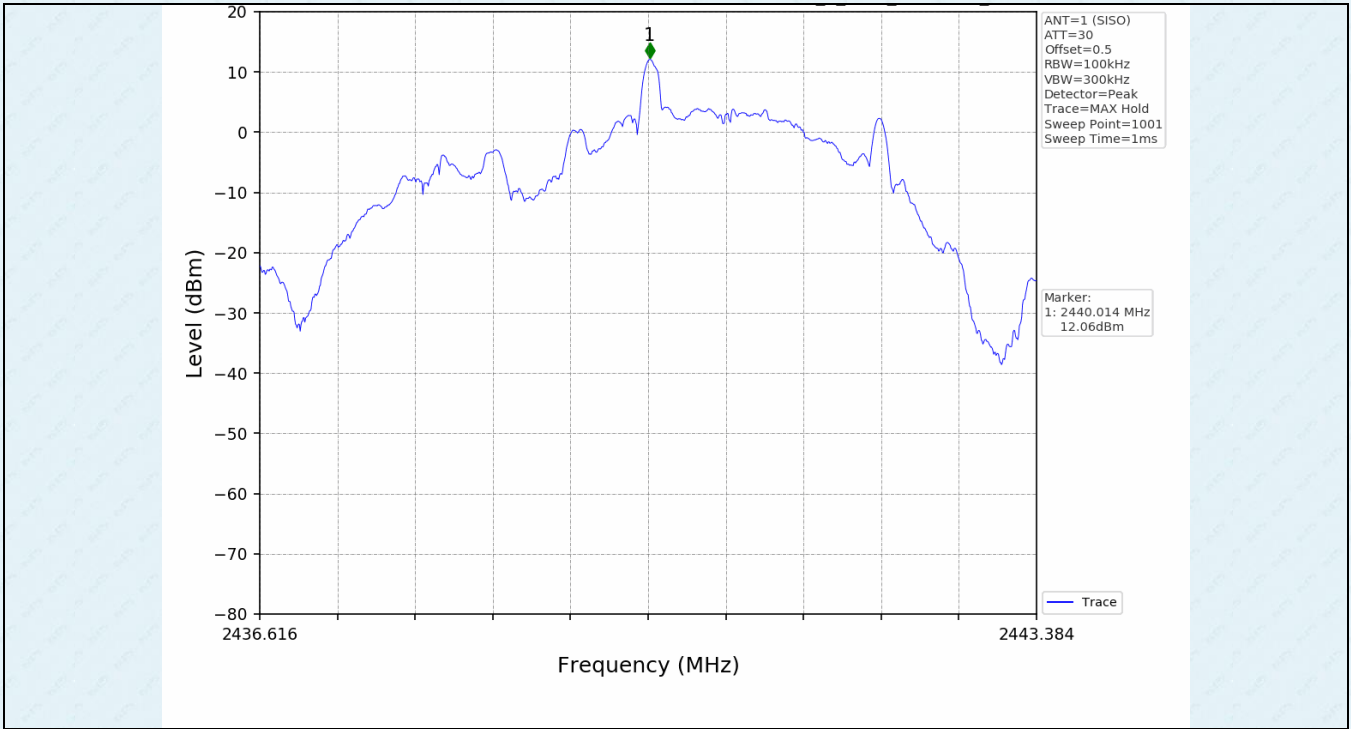
## 6. Unwanted Emissions in Non-restricted Frequency Bands

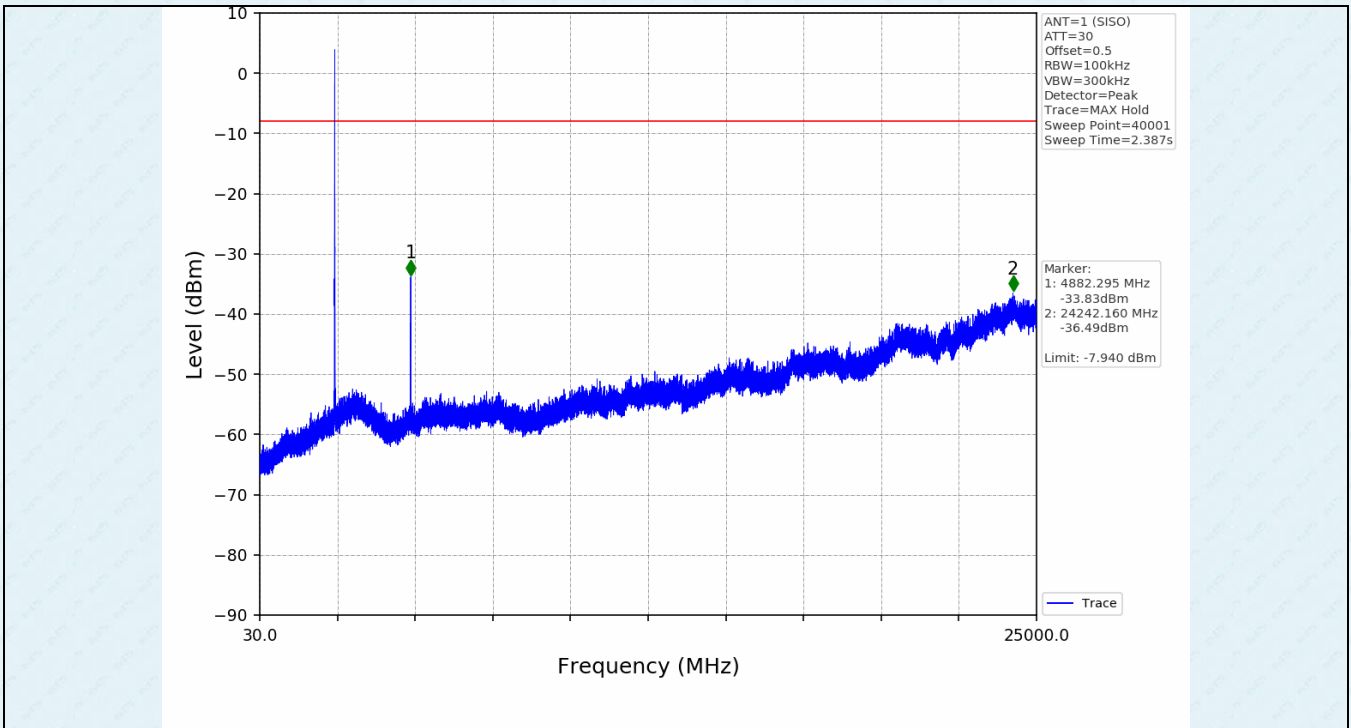
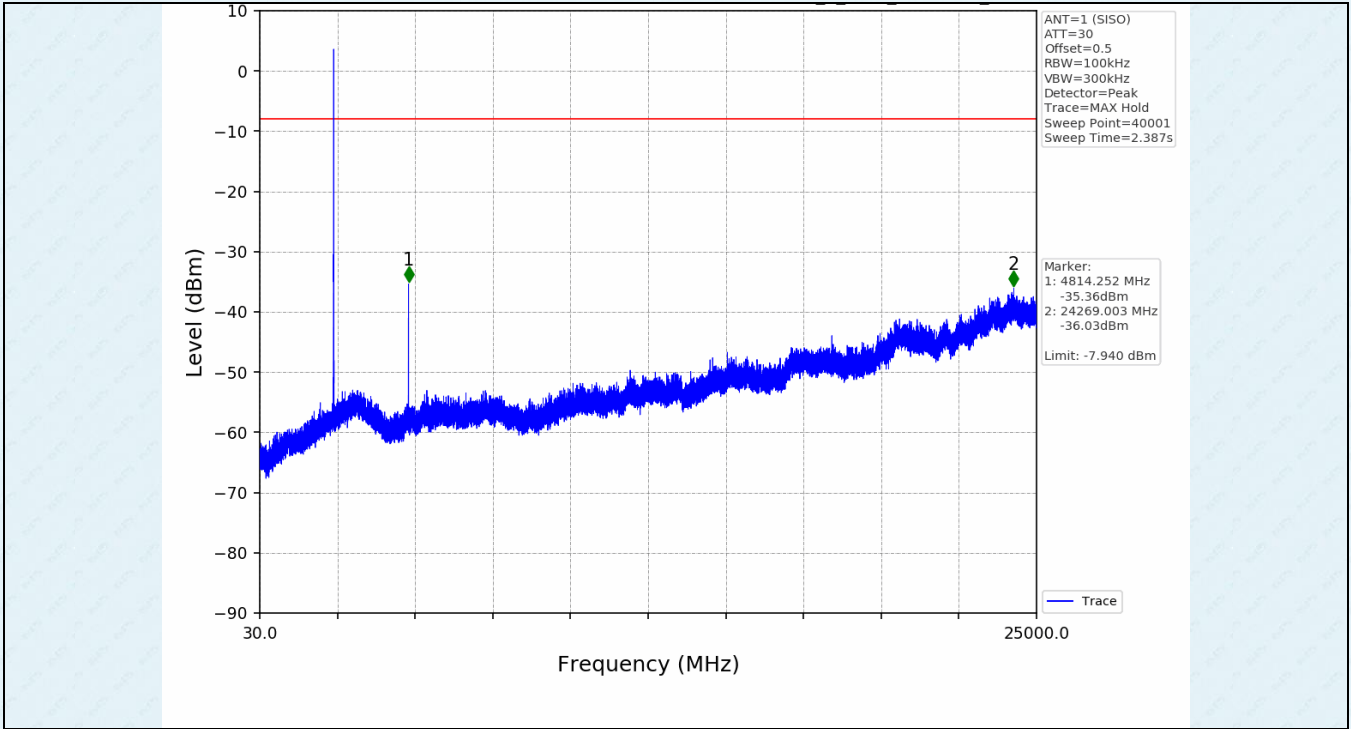
### 6.1 Test Result

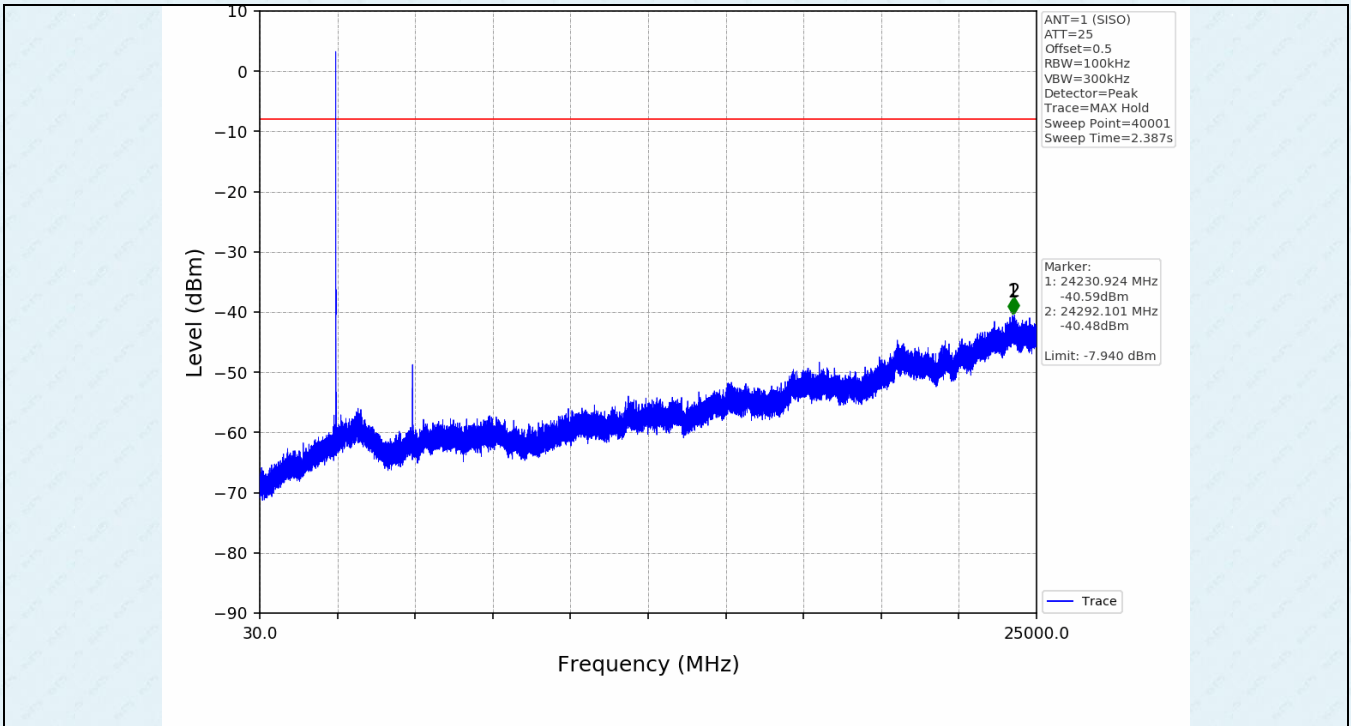
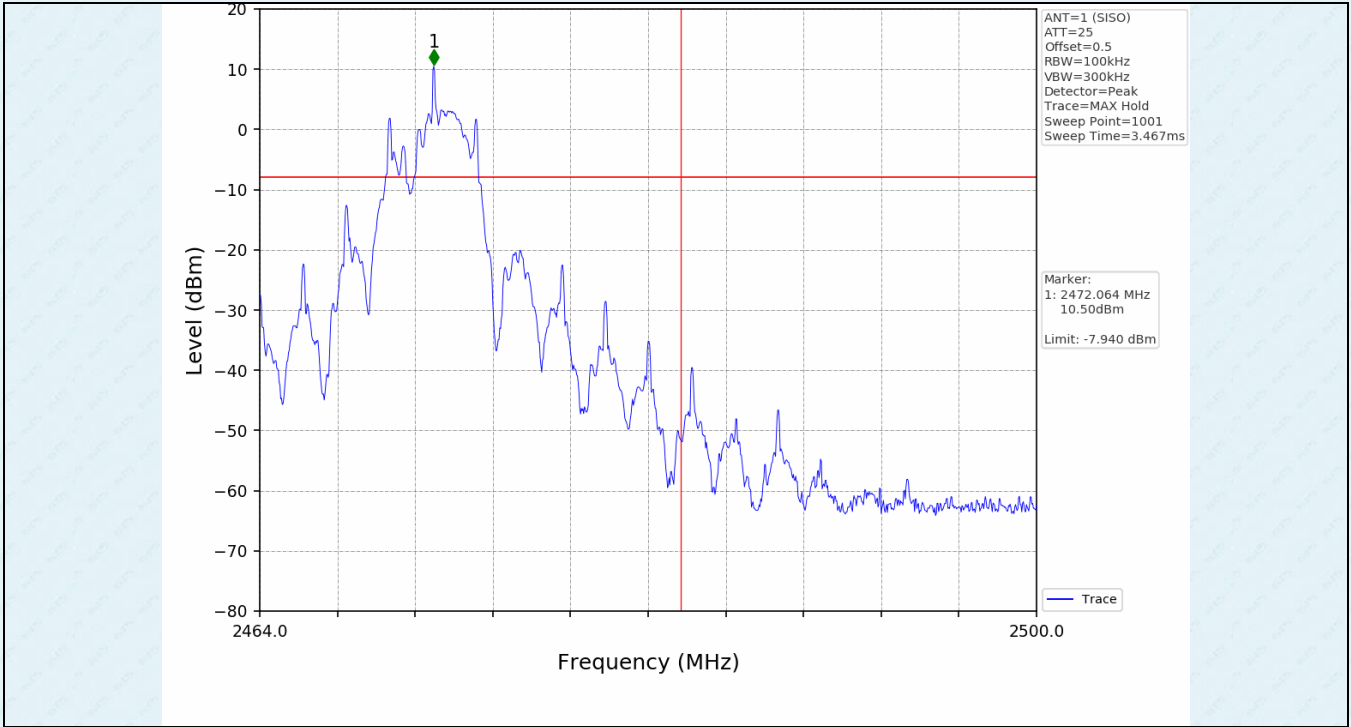
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
FHSS	2406	SISO	1	Refer to test graph	-7.94	PASS
	2440	SISO	1	Refer to test graph	-7.94	PASS
	2472	SISO	1	Refer to test graph	-7.94	PASS
	Hopping	SISO	1	Refer to test graph	-7.94	PASS
	2406	SISO	2	Refer to test graph	-8.01	PASS
	2440	SISO	2	Refer to test graph	-8.01	PASS
	2472	SISO	2	Refer to test graph	-8.01	PASS
	Hopping	SISO	2	Refer to test graph	-8.01	PASS

## 6.2 Test Graph

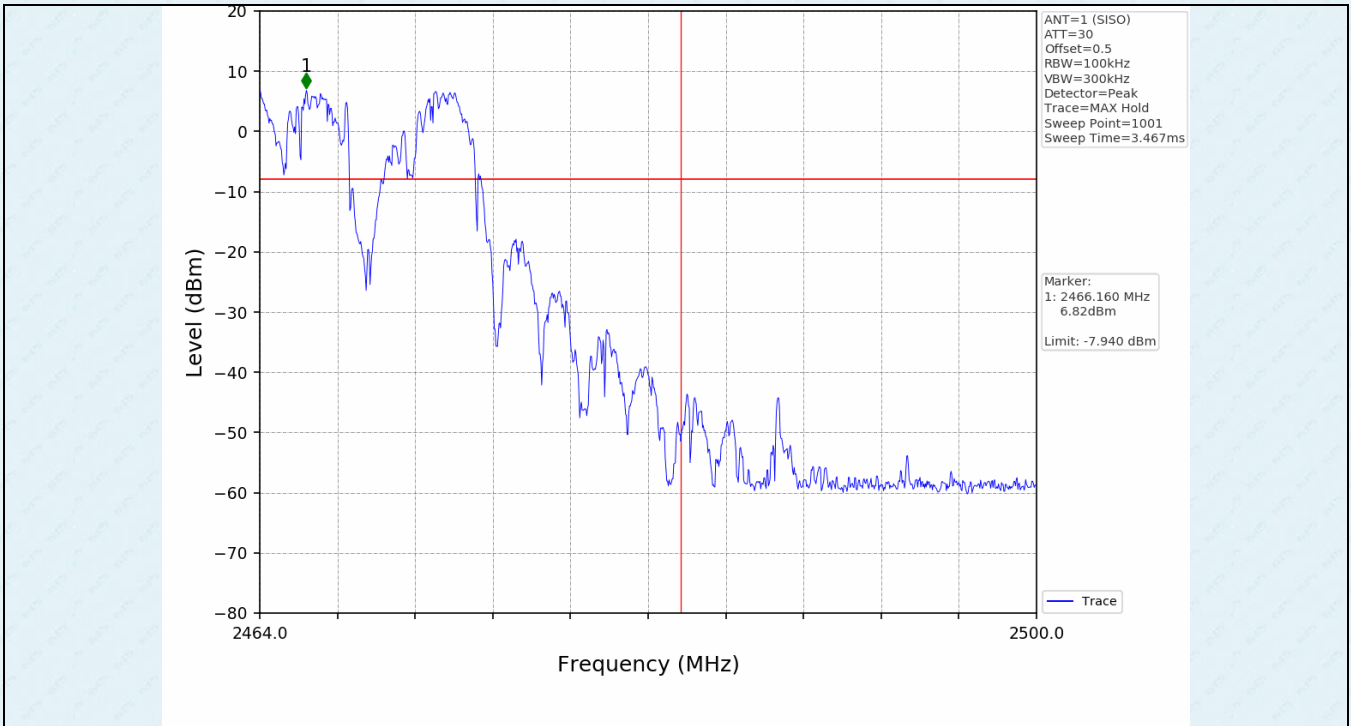
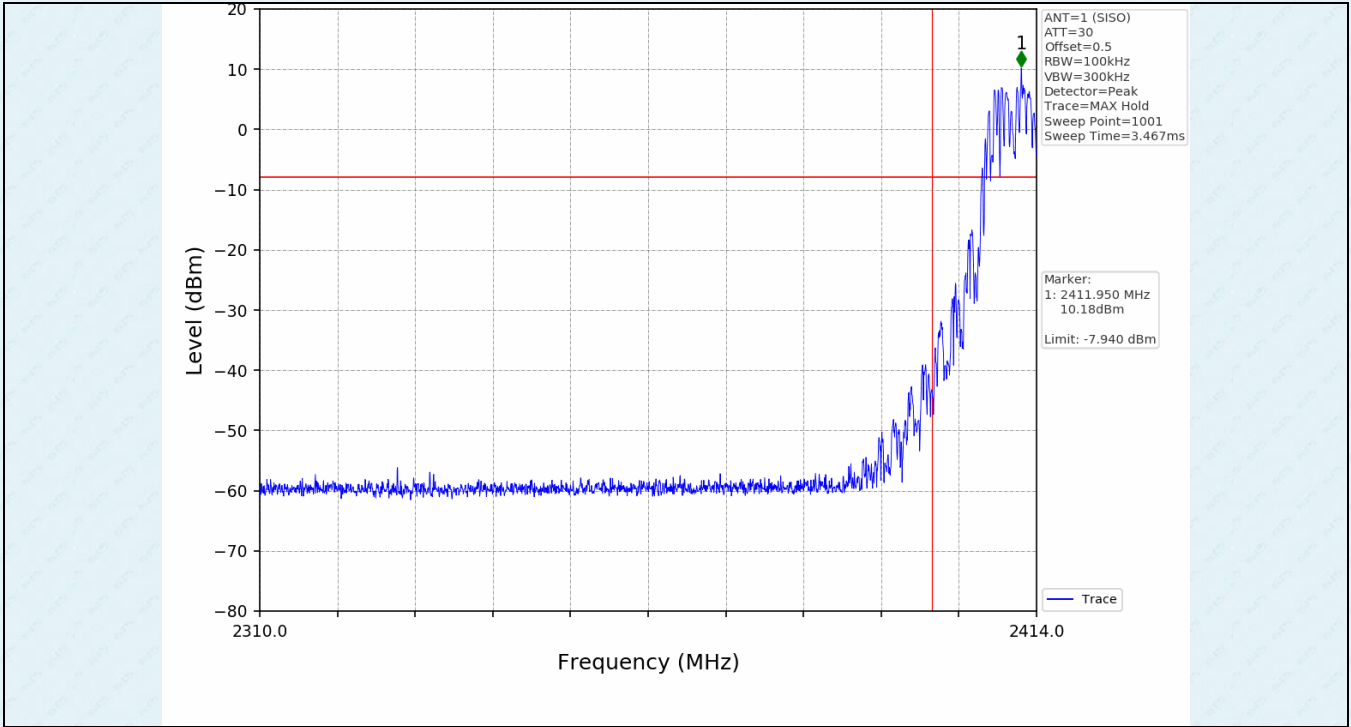
ANT 1:



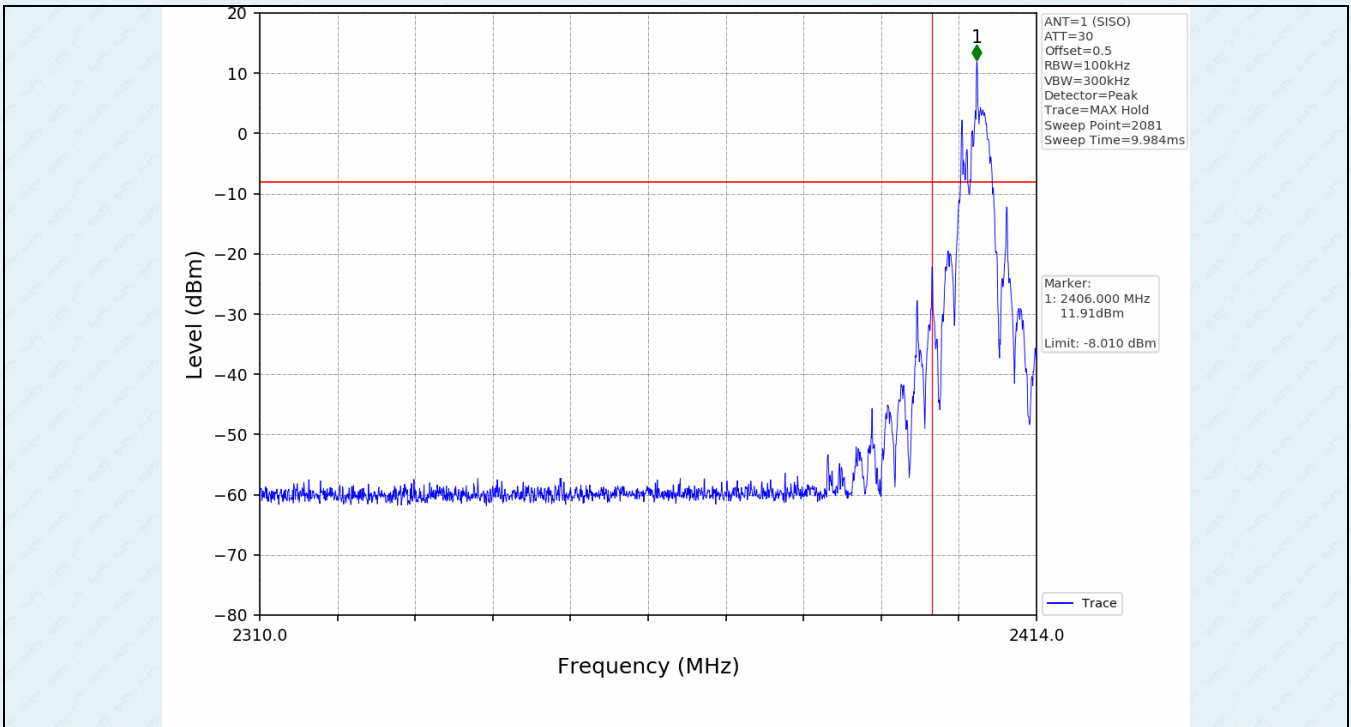
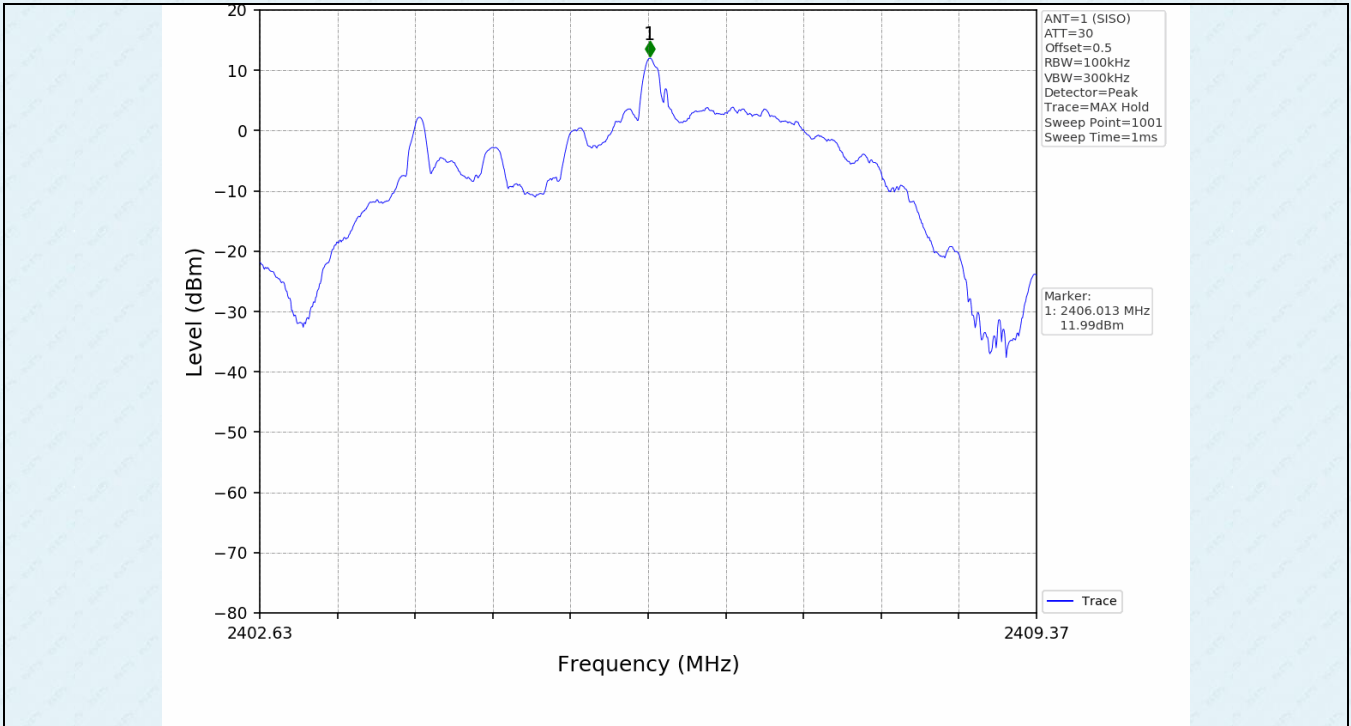


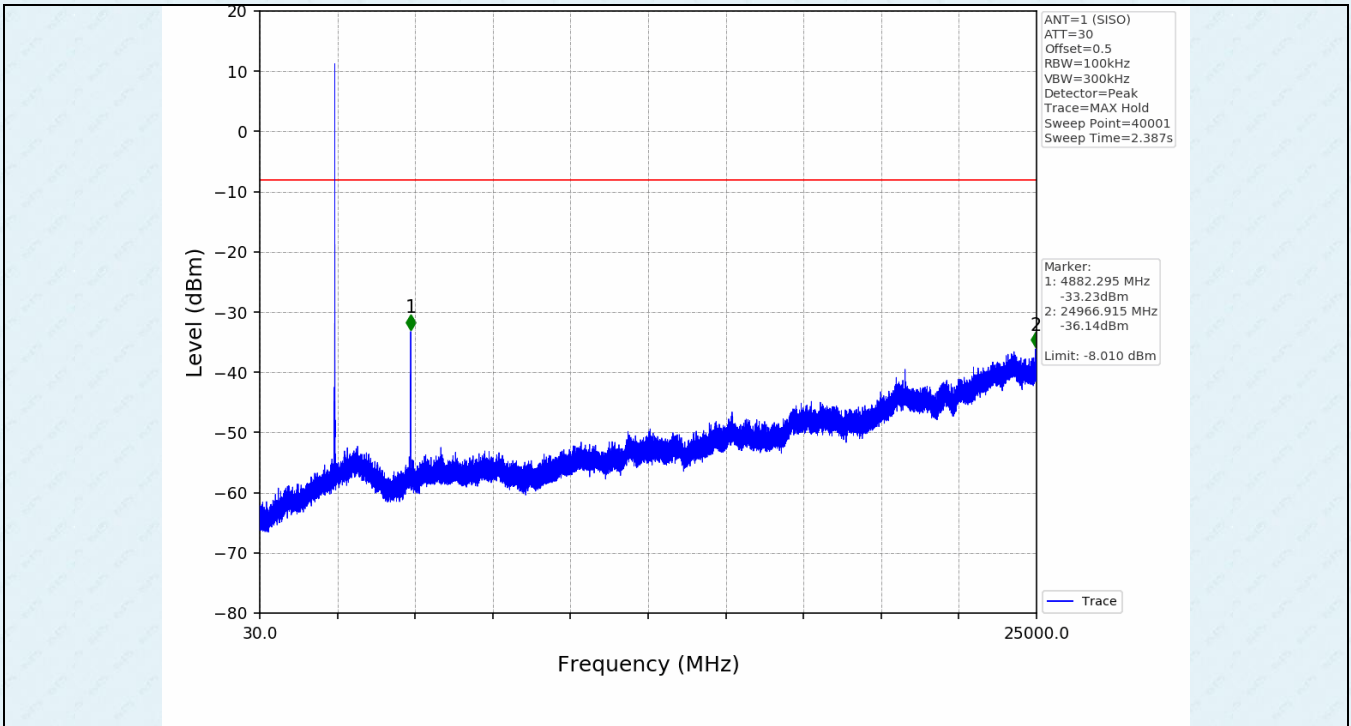
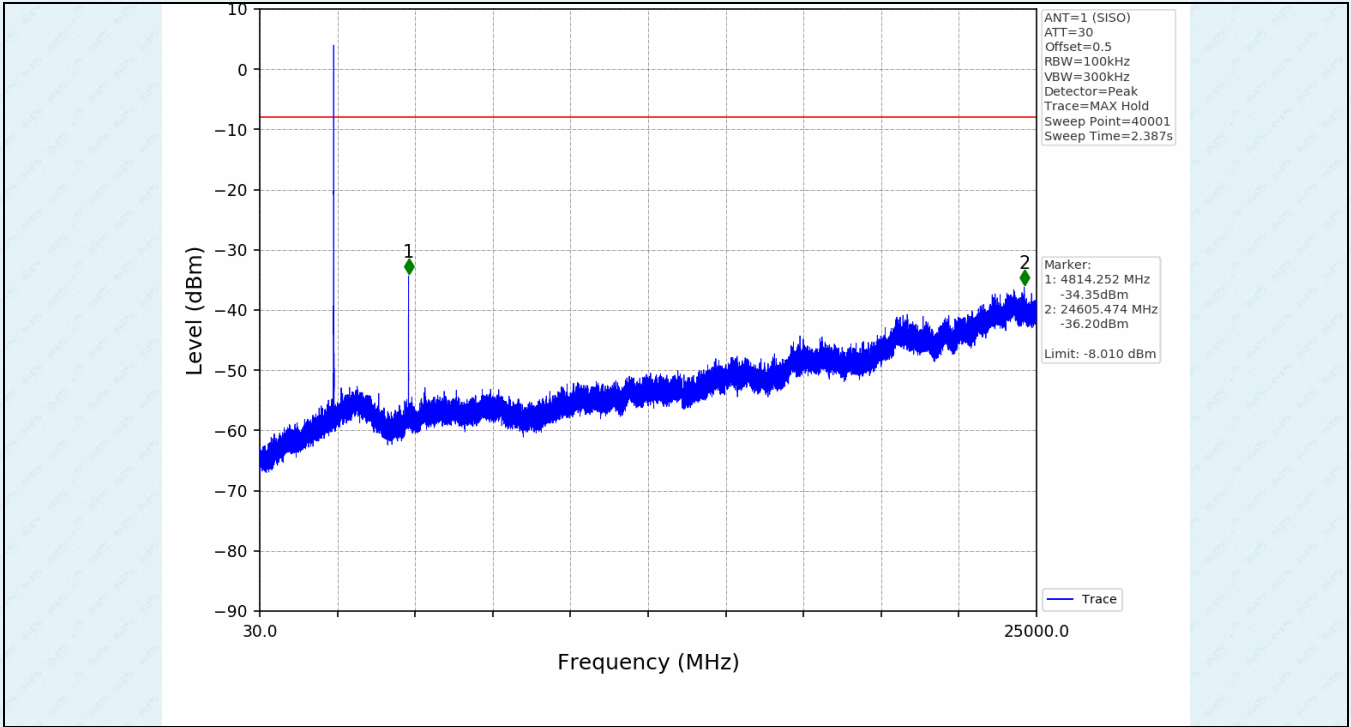


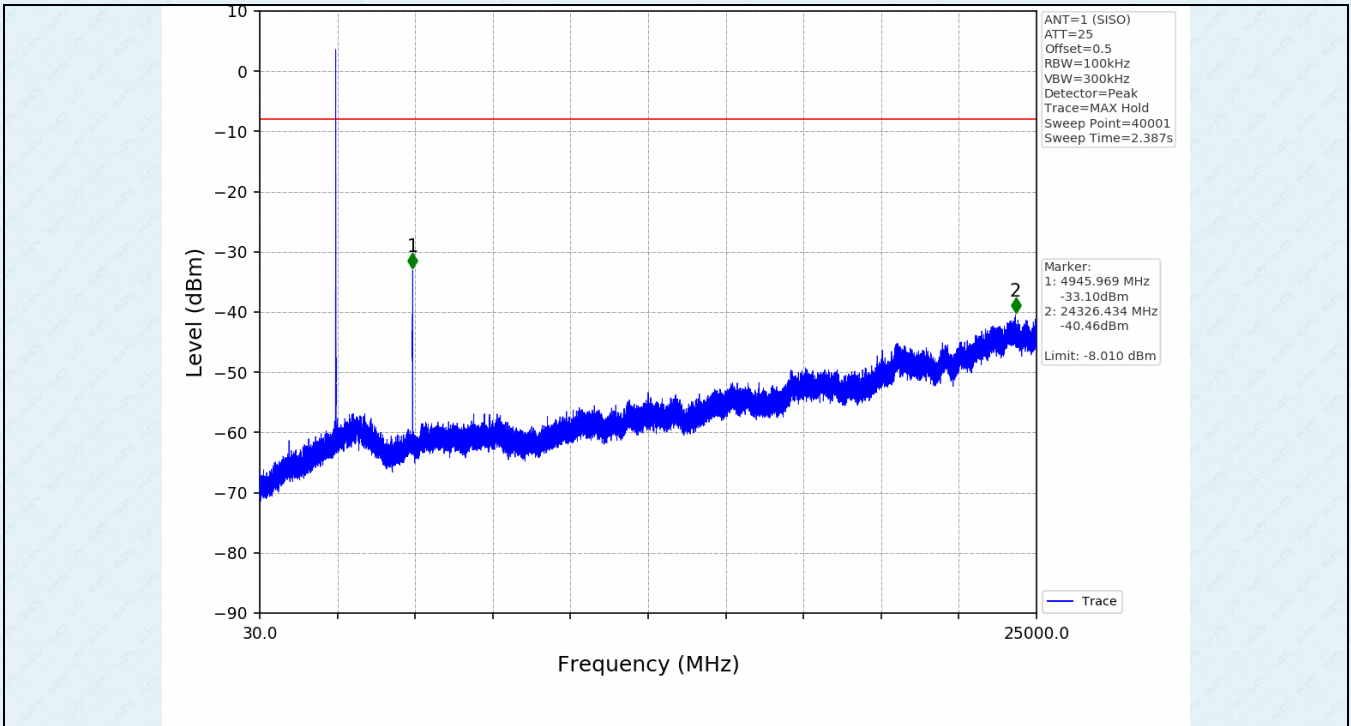
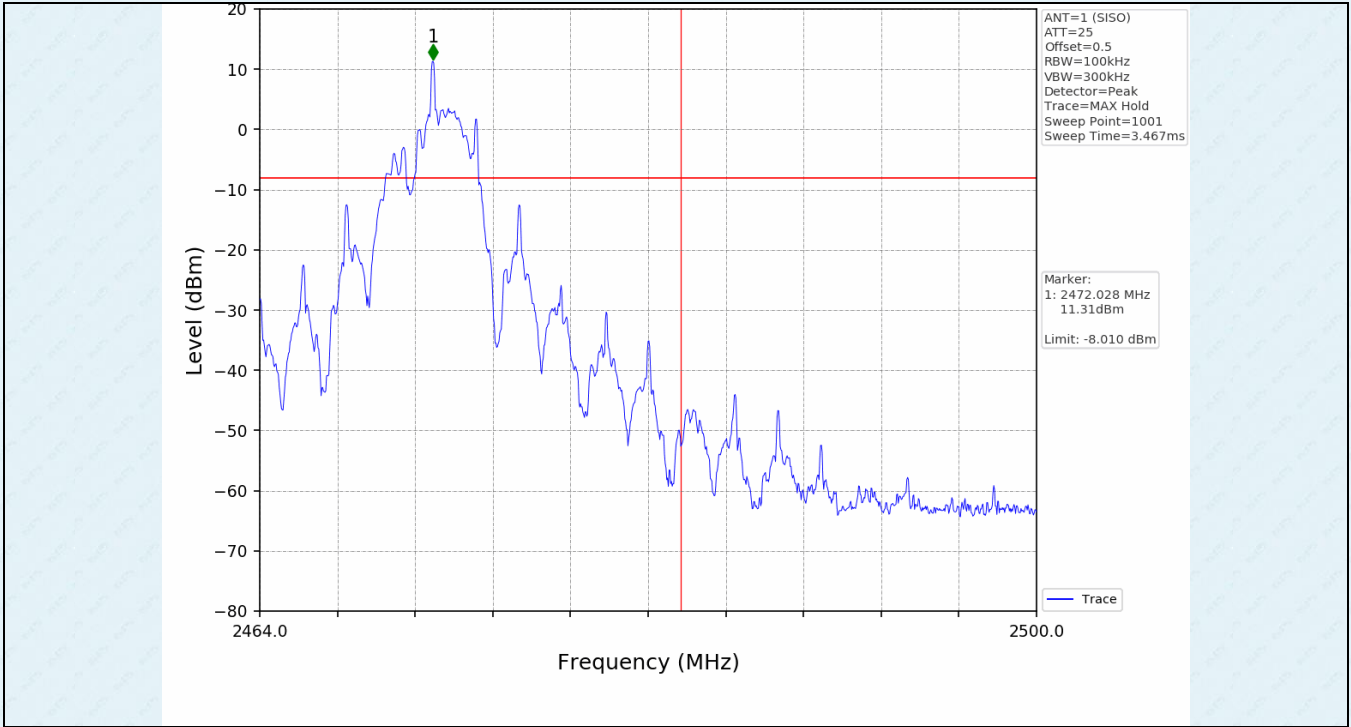


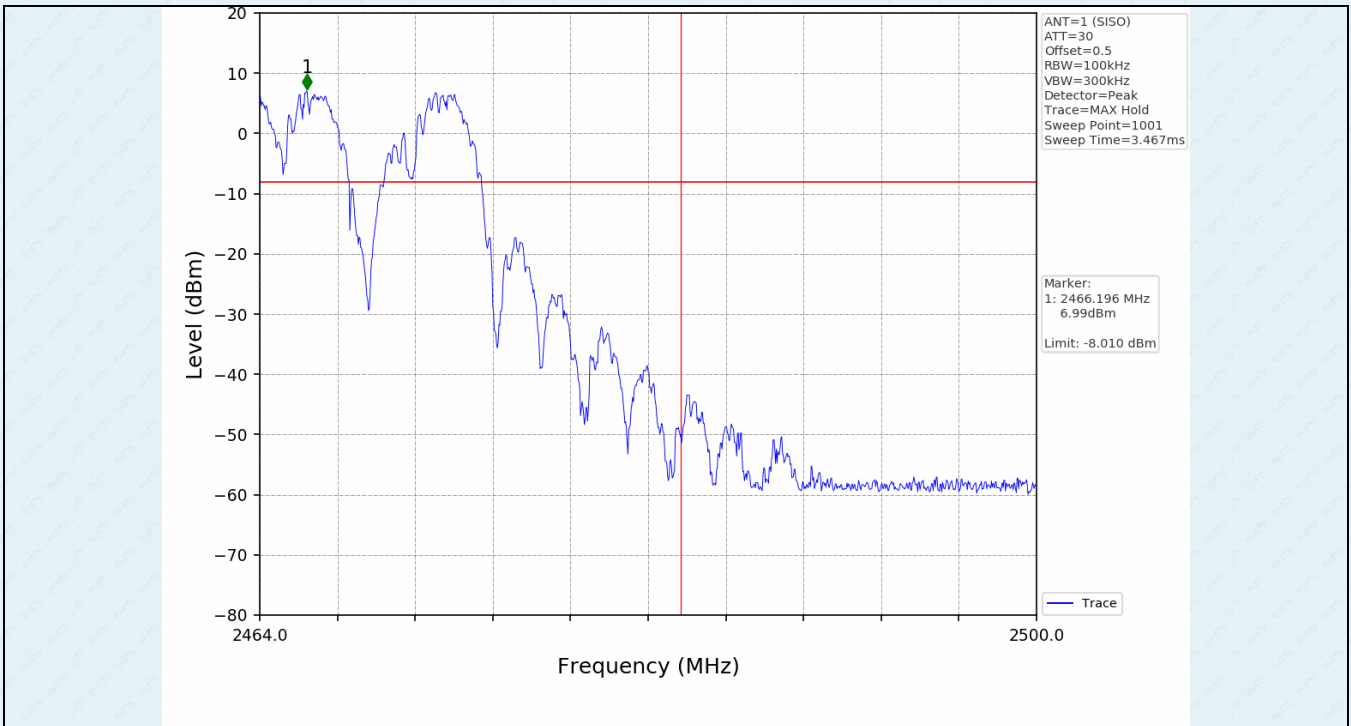
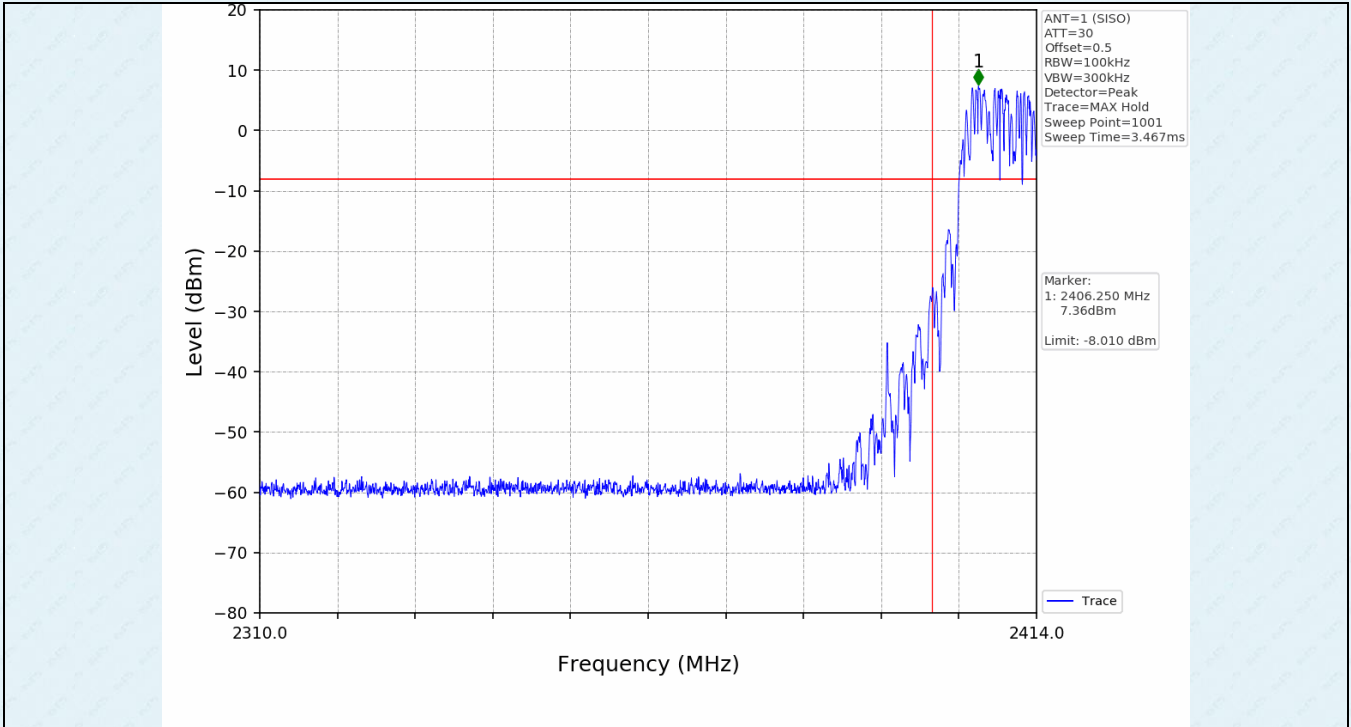


**ANT 2:**









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