

Appendix for 15.247

1. Bandwidth

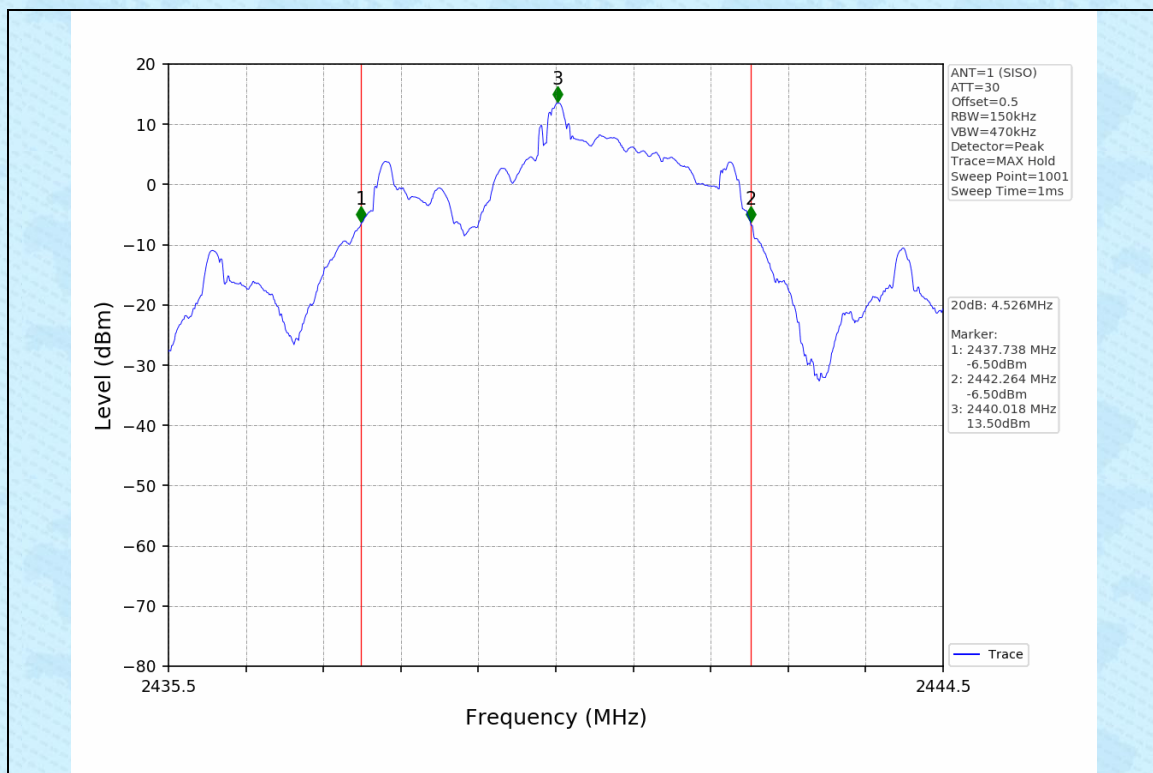
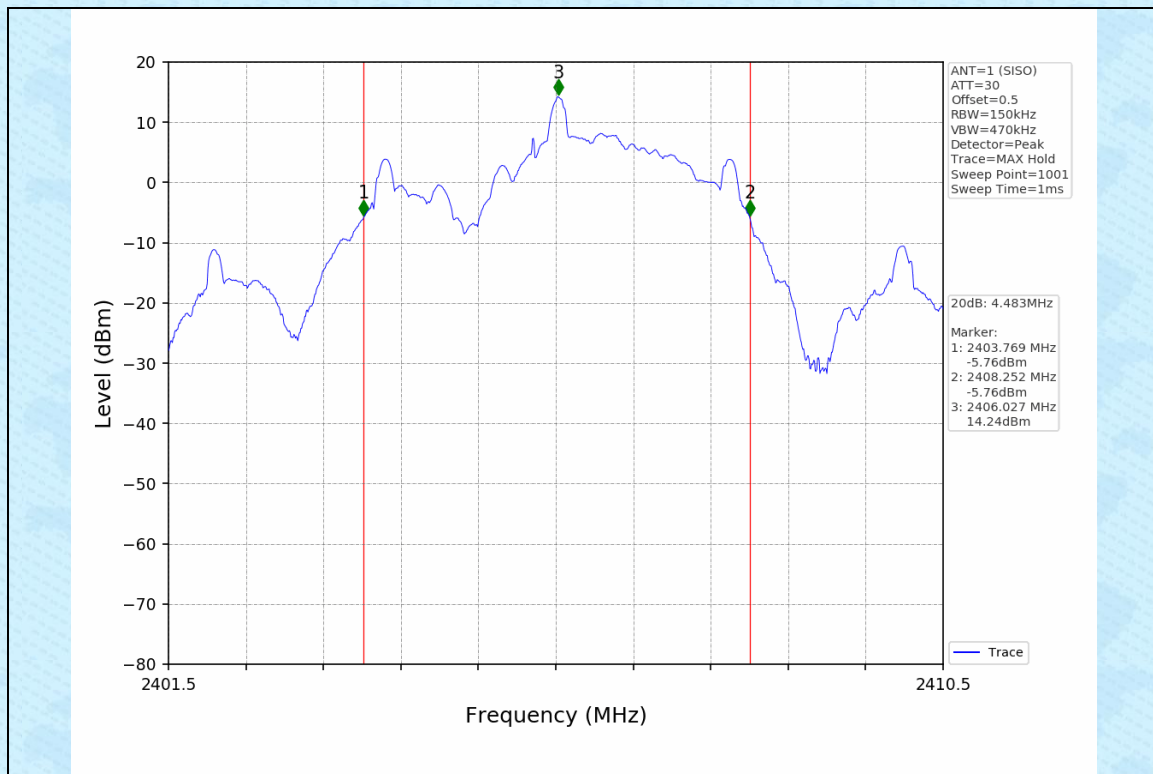
1.1 Test Result

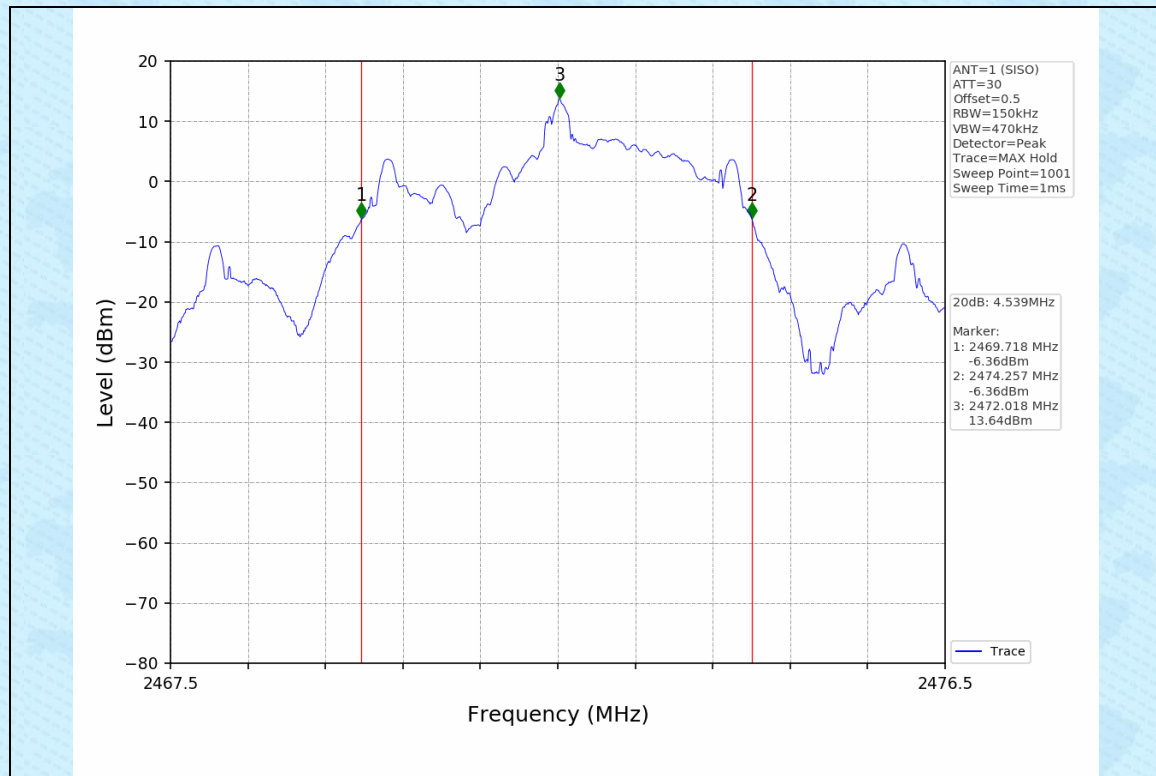
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
FHSS	2406	SISO	1	4.483	PASS
	2440	SISO	1	4.526	PASS
	2472	SISO	1	4.539	PASS
	2406	SISO	2	4.529	PASS
	2440	SISO	2	4.500	PASS
	2472	SISO	2	4.534	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
FHSS	2406	SISO	1	4.548	Only for Report Use
	2440	SISO	1	4.539	Only for Report Use
	2472	SISO	1	4.614	Only for Report Use
	2406	SISO	2	4.579	Only for Report Use
	2440	SISO	2	4.559	Only for Report Use
	2472	SISO	2	4.602	Only for Report Use

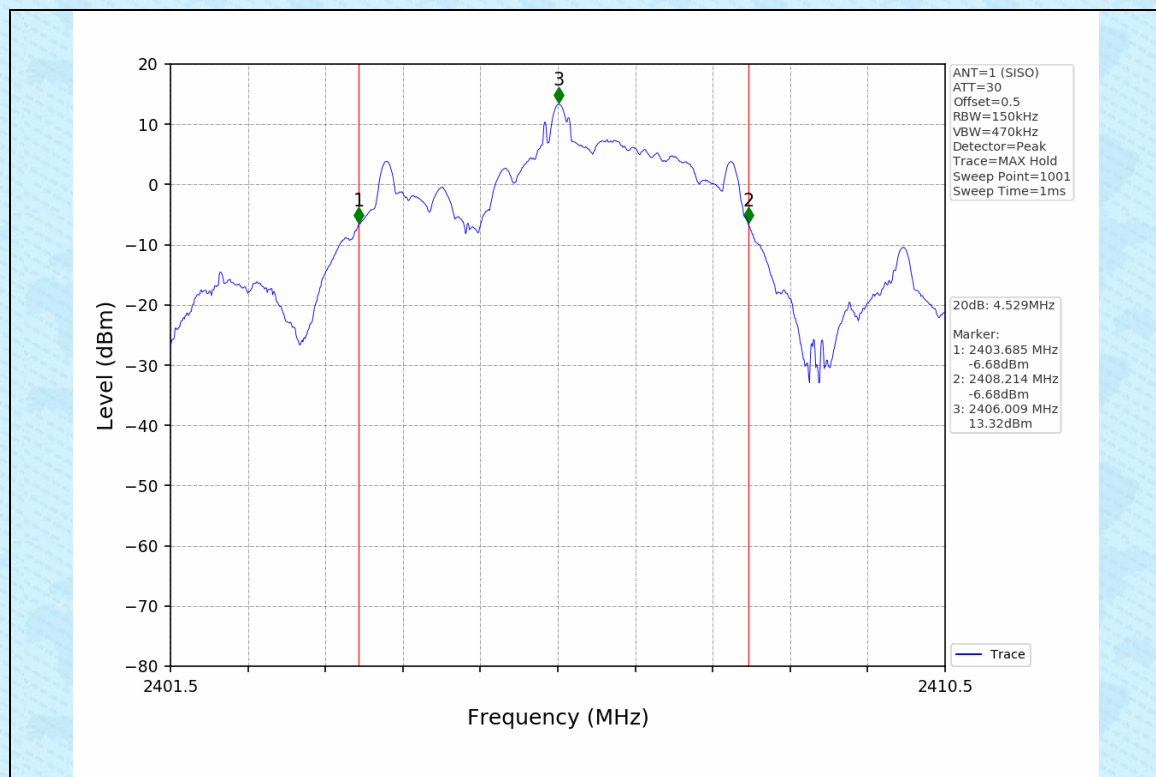
1.2 Test Graph - 20dB Bandwidth

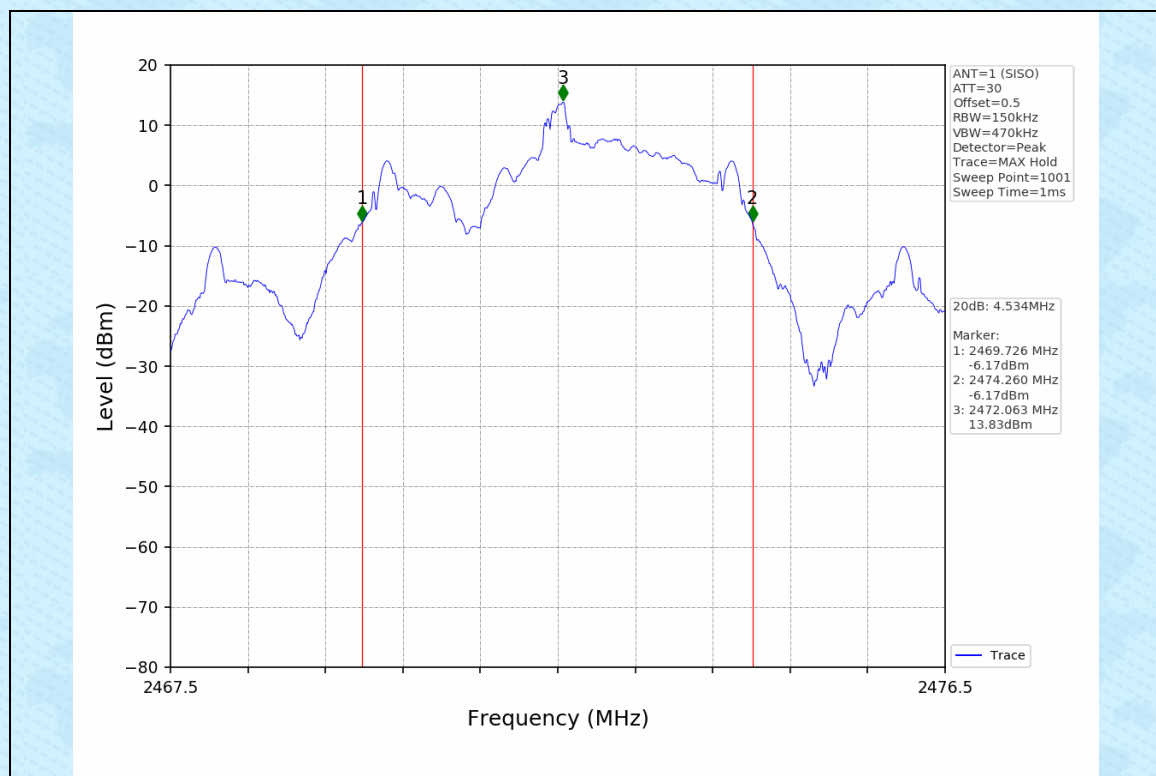
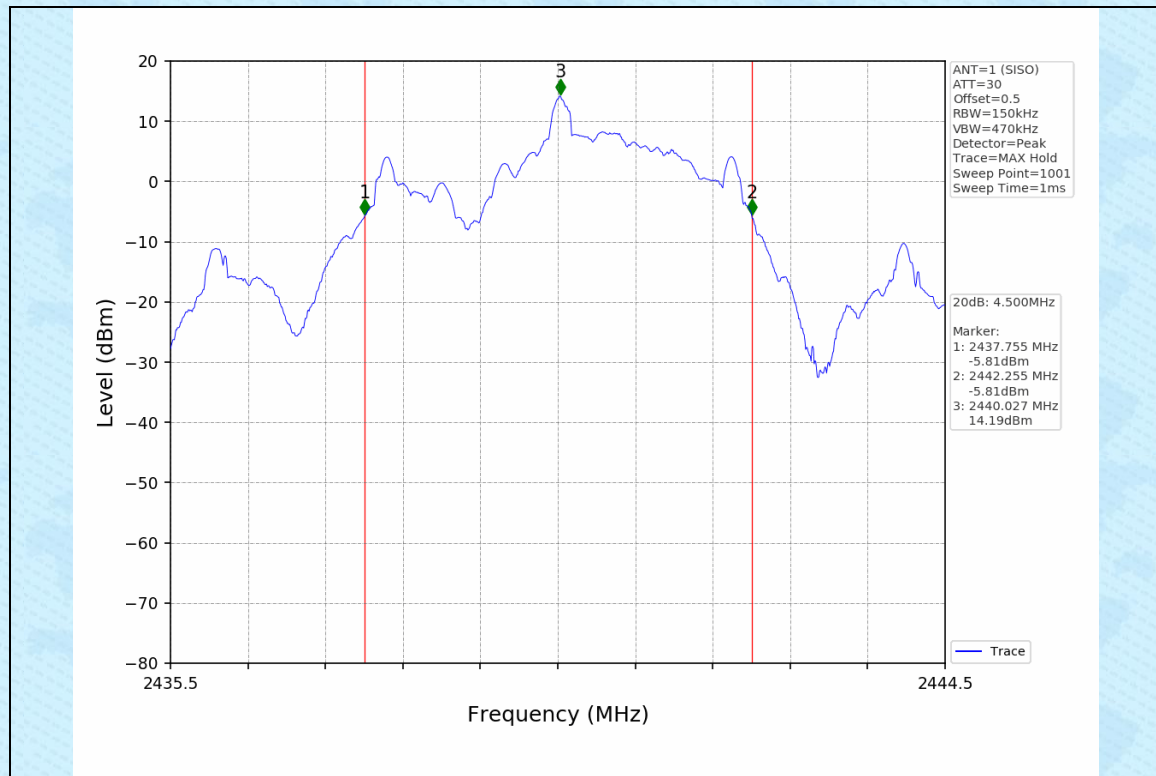
ANT 1:





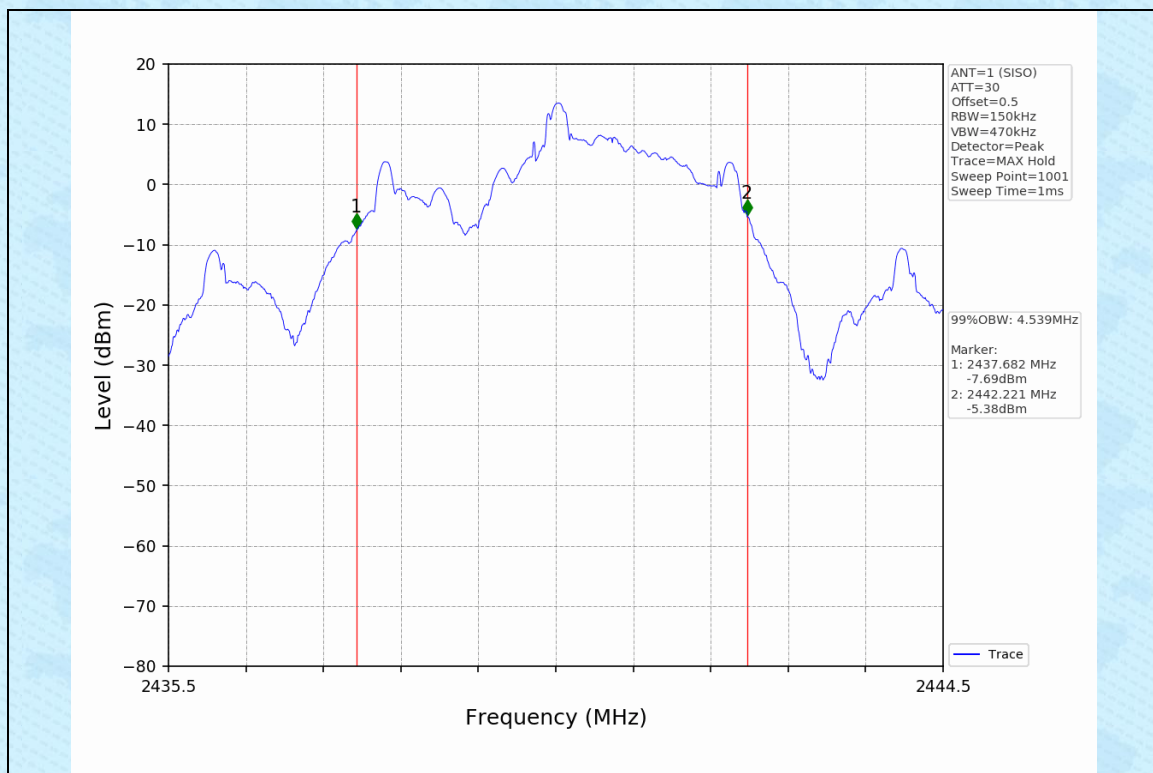
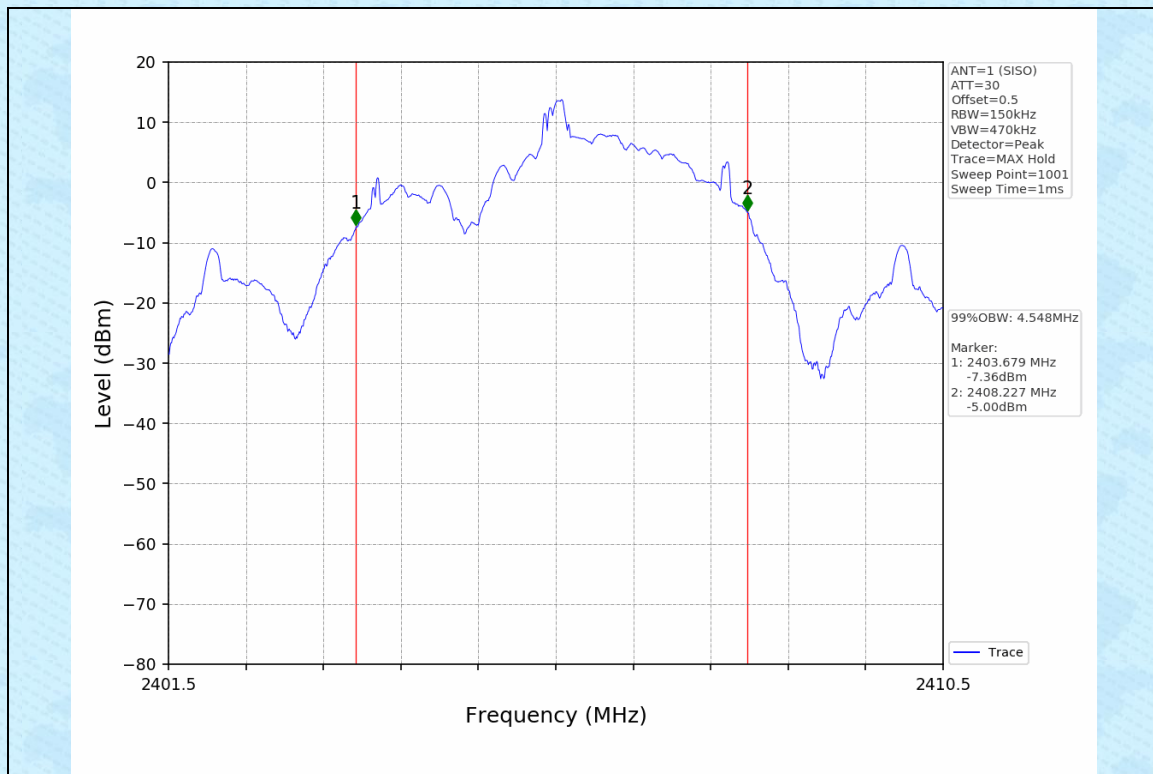
ANT 2:

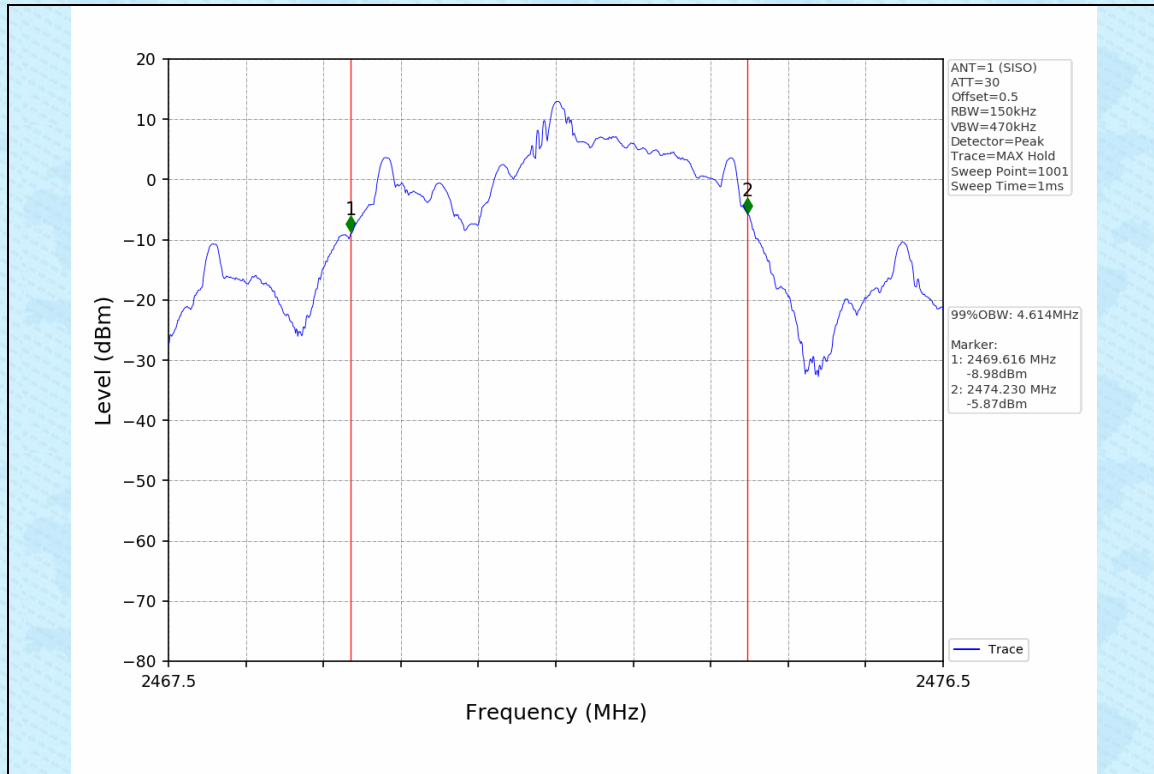




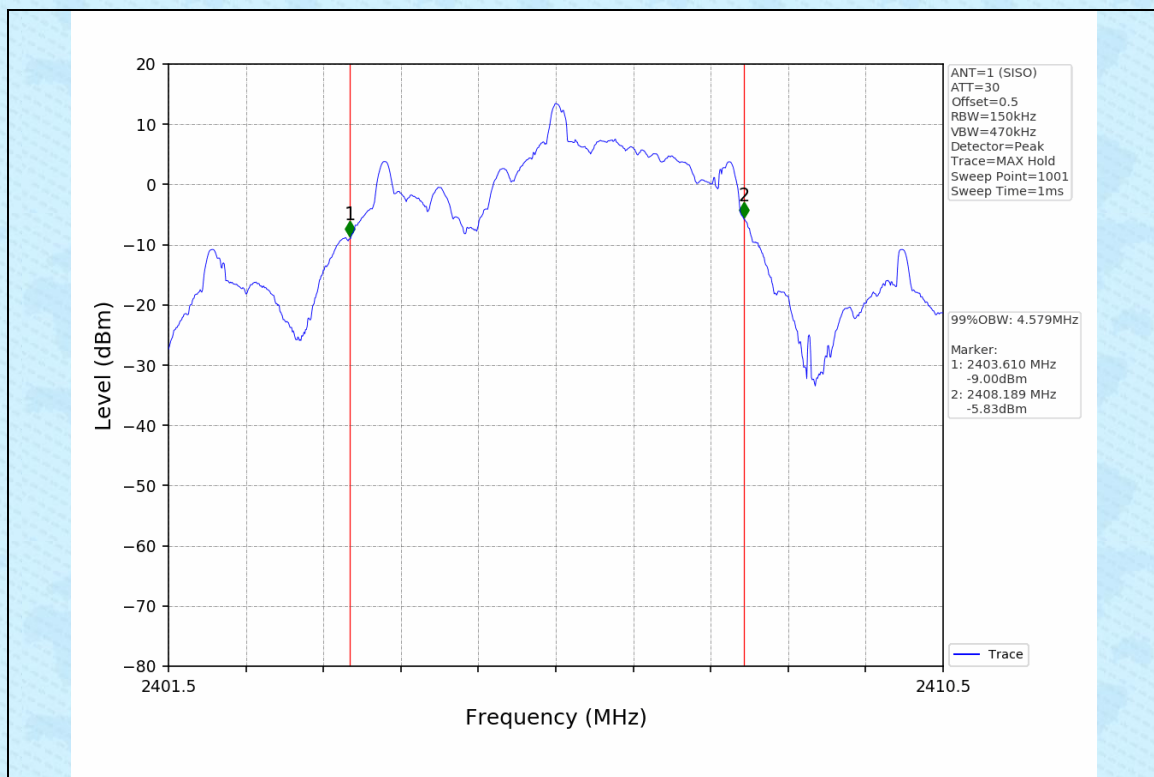
1.3 Test Graph - 99% Occupied Bandwidth

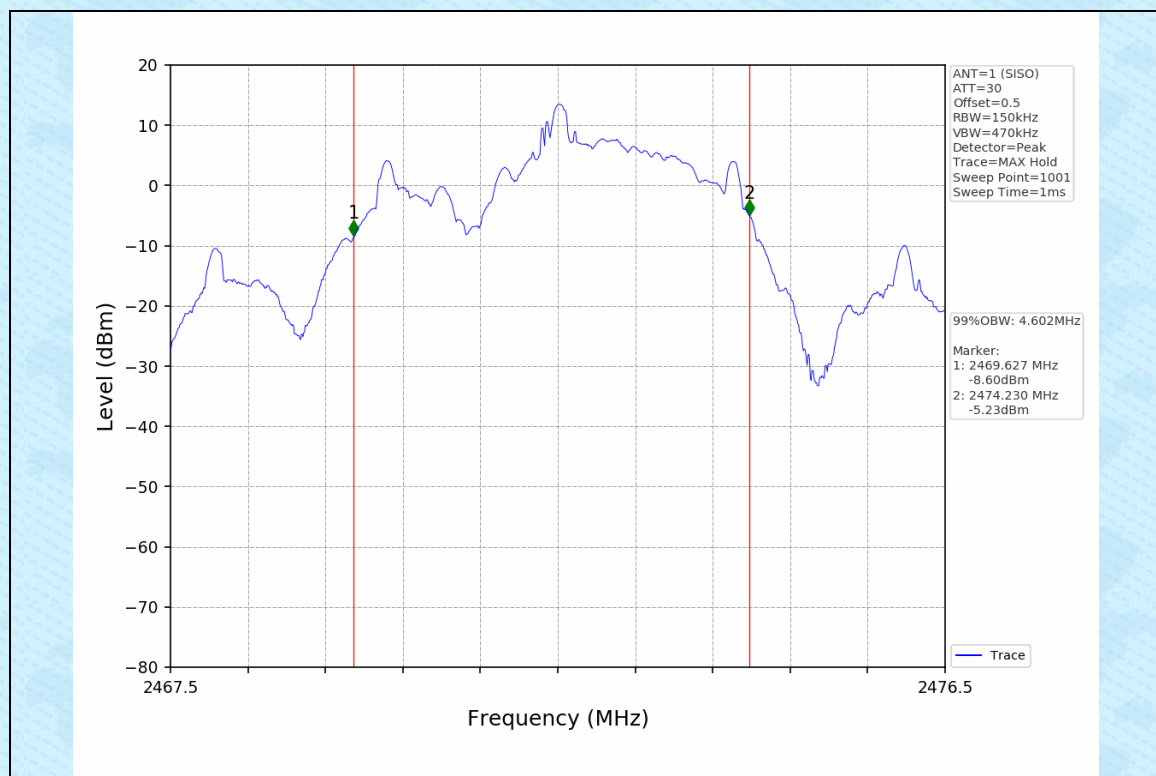
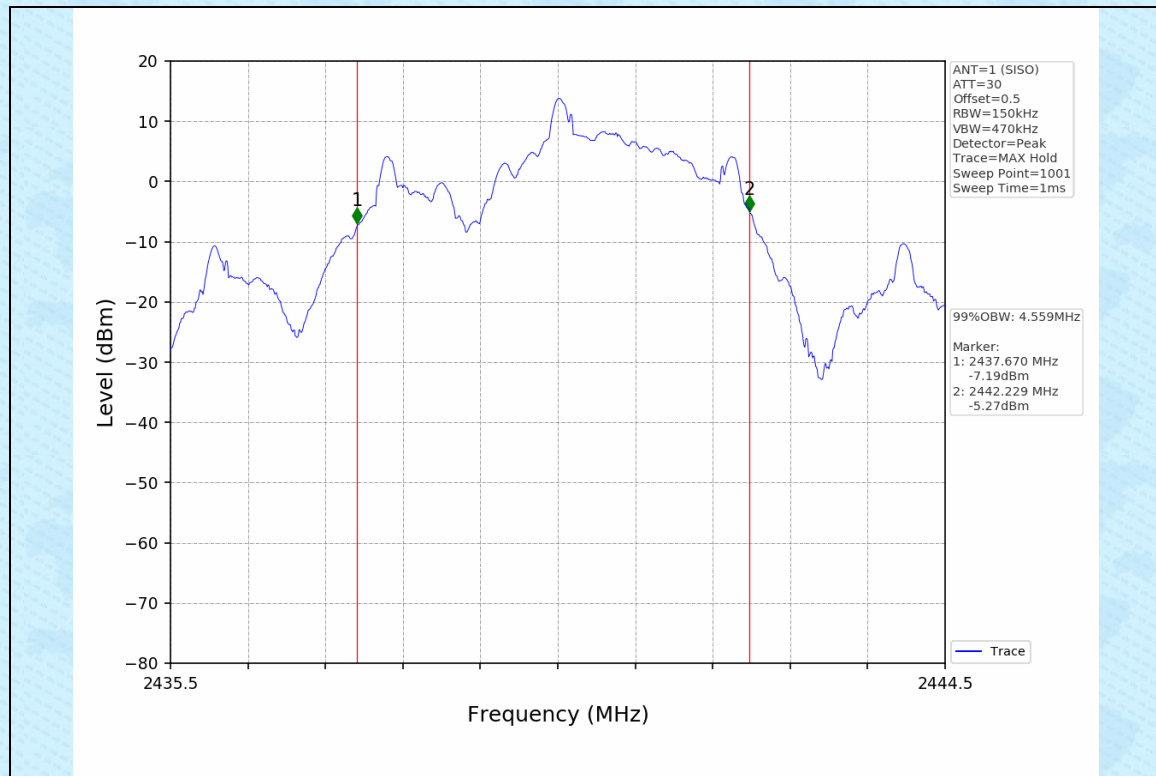
ANT 1:





ANT 2:





2. Maximum Conducted Output Power

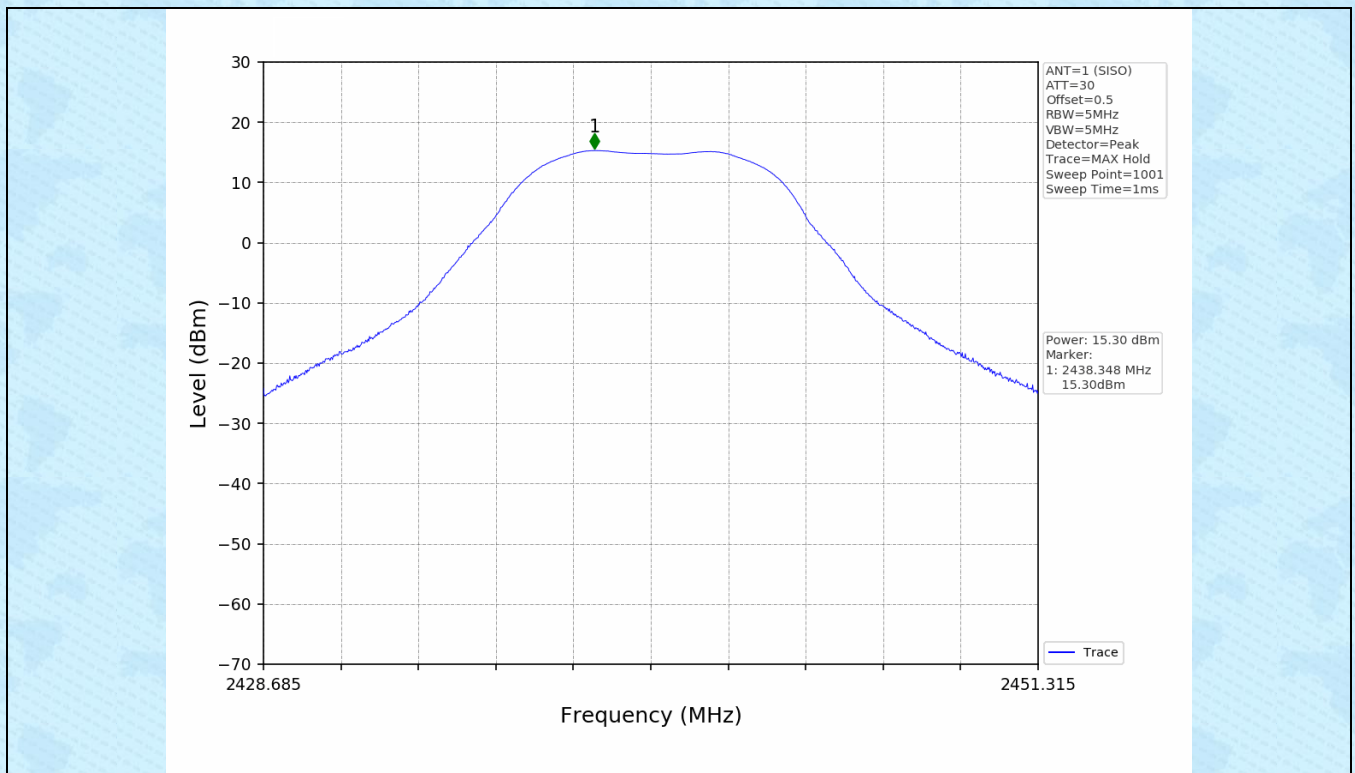
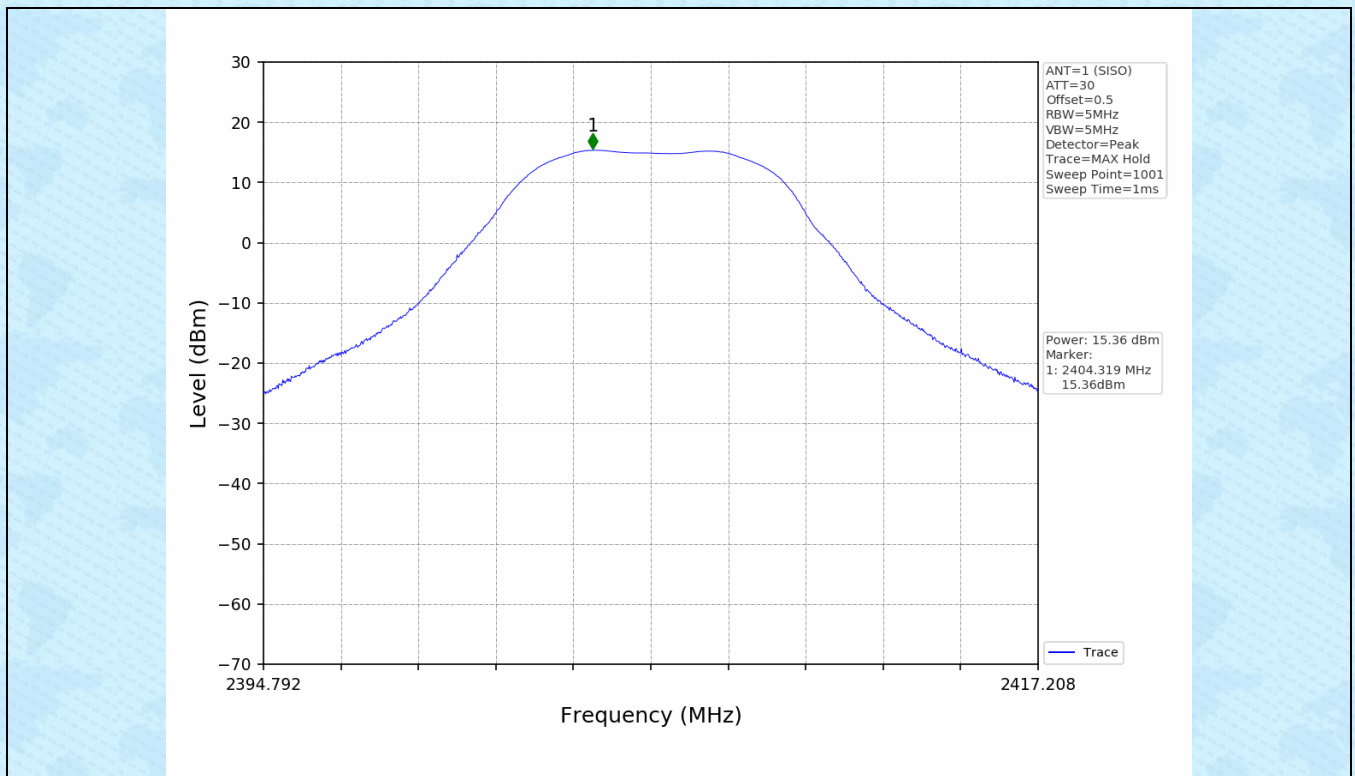
2.1 Test Result

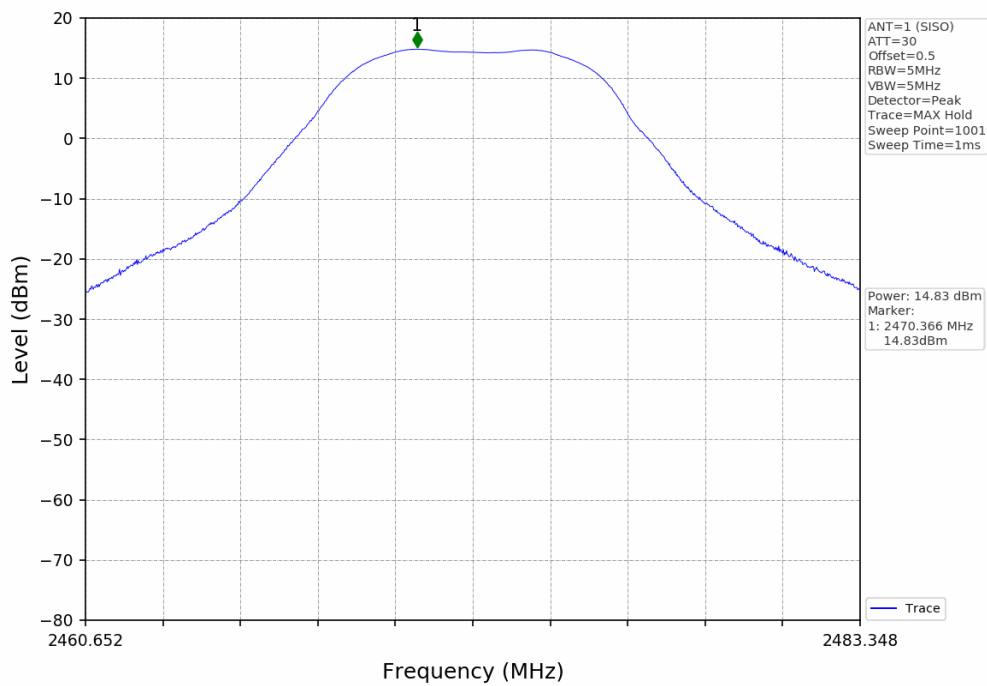
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
FHSS	2406	SISO	15.36	20.97	PASS
	2440	SISO	15.30	20.97	PASS
	2472	SISO	14.83	20.97	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
FHSS	2406	SISO	15.61	20.97	PASS
	2440	SISO	15.55	20.97	PASS
	2472	SISO	15.34	20.97	PASS

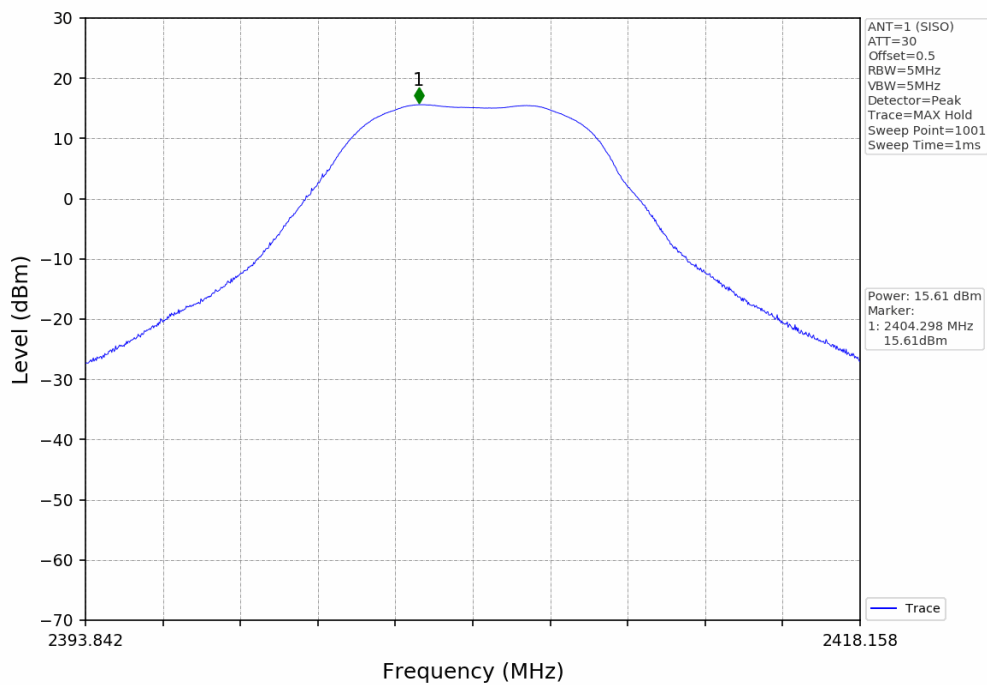
2.2 Test Graph

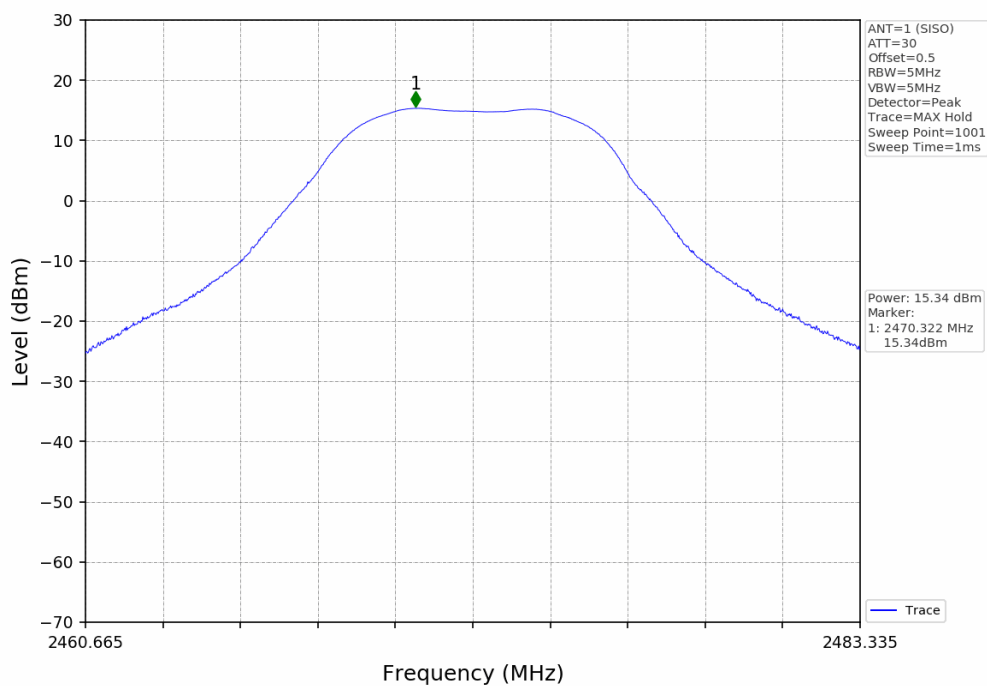
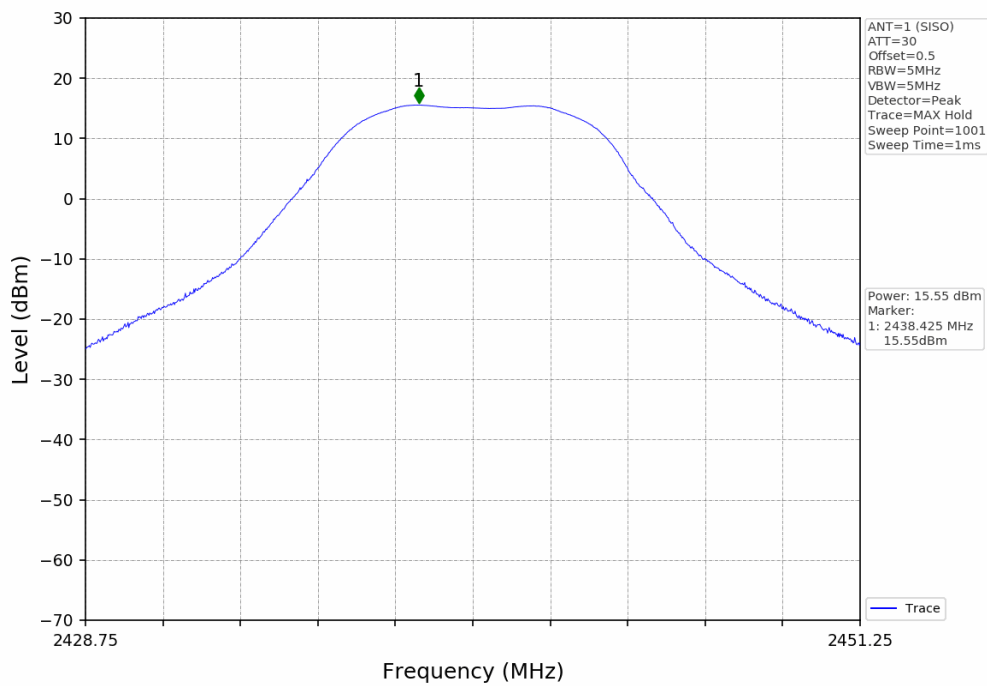
ANT 1:





ANT 2:





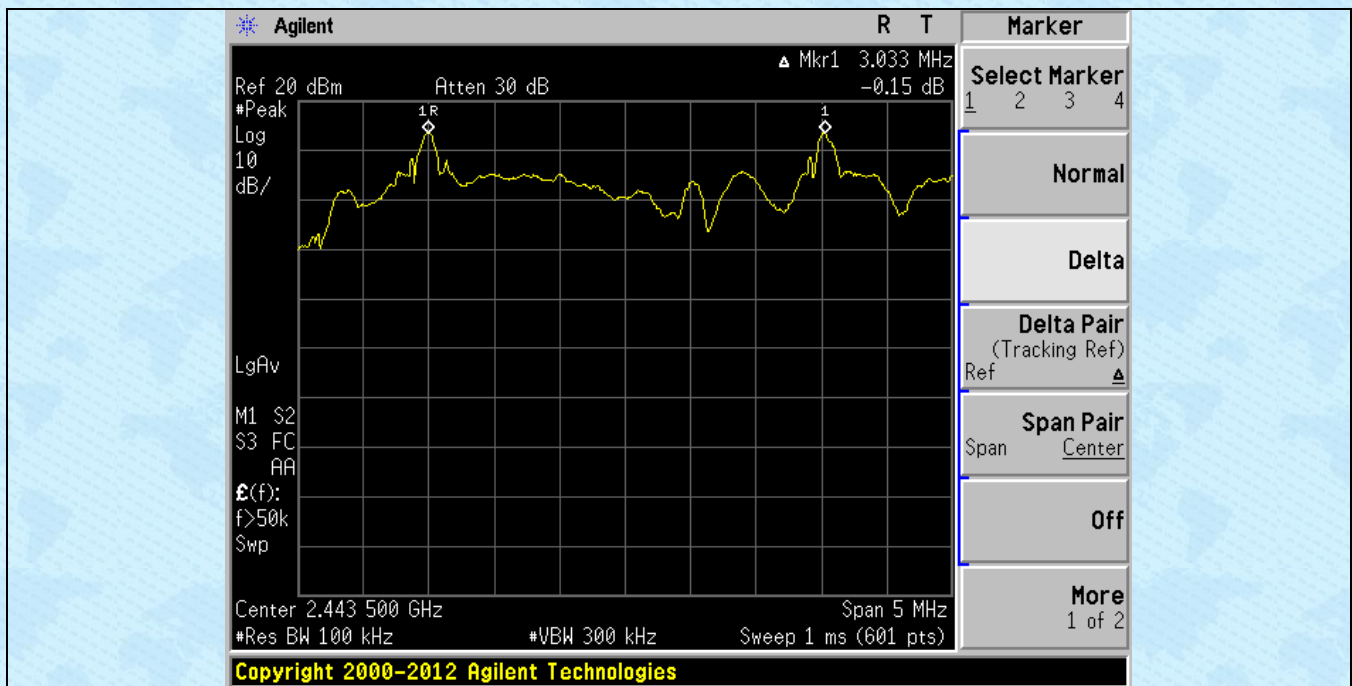
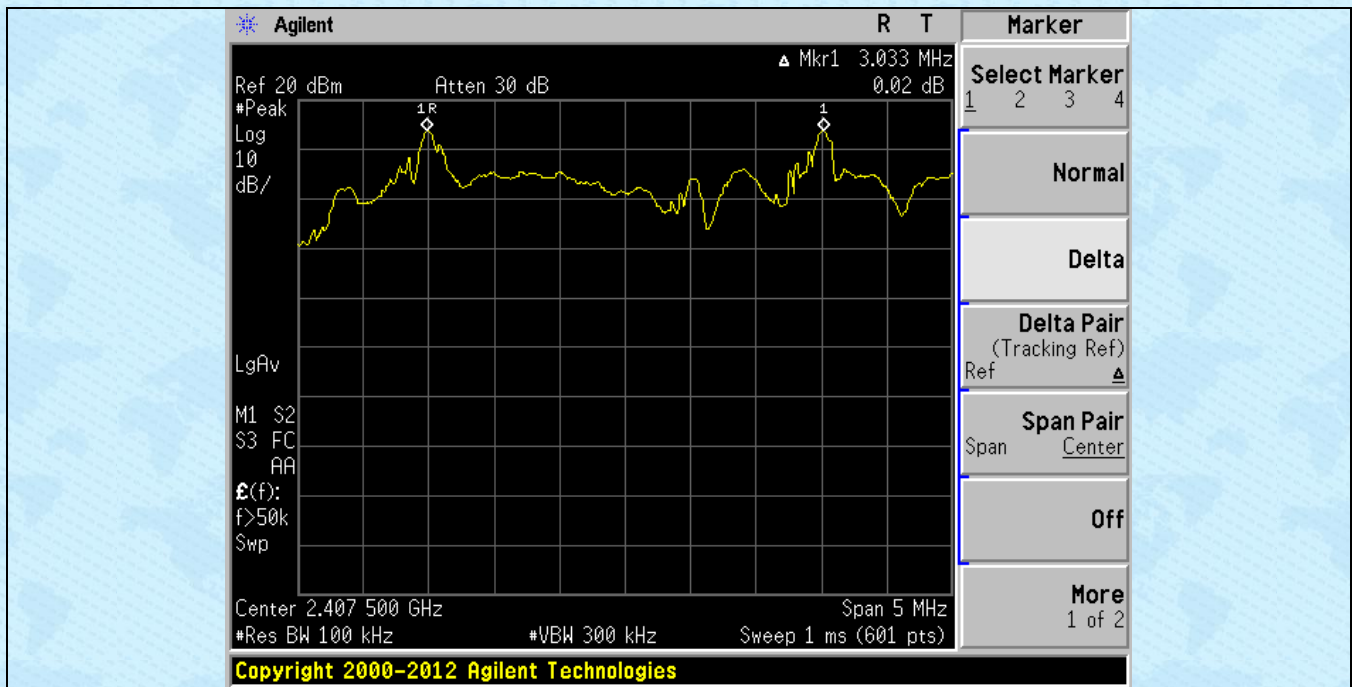
3. Carrier frequency separation

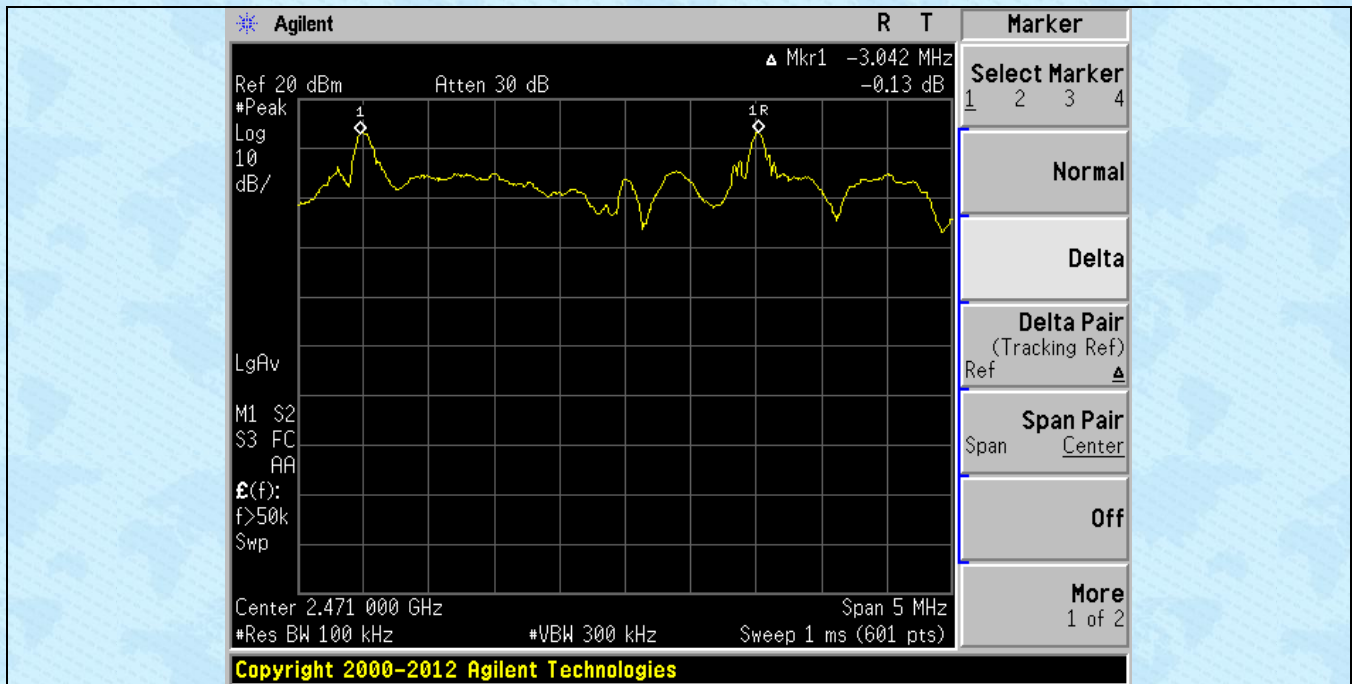
3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
1	Lowest	3.033	2.989	Pass
	Middle	3.033	3.017	Pass
	Highest	3.042	3.026	Pass
2	Lowest	3.033	3.019	Pass
	Middle	3.042	3.000	Pass
	Highest	3.033	3.023	Pass

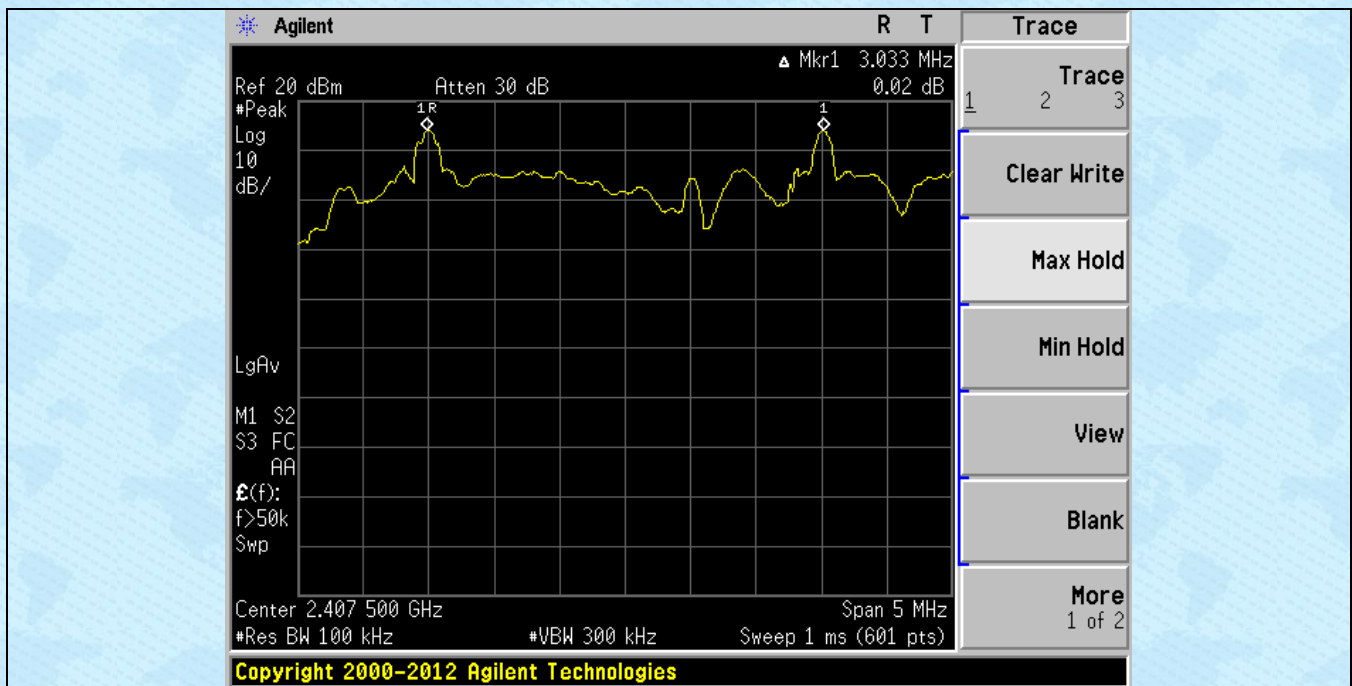
3.2 Test Graph

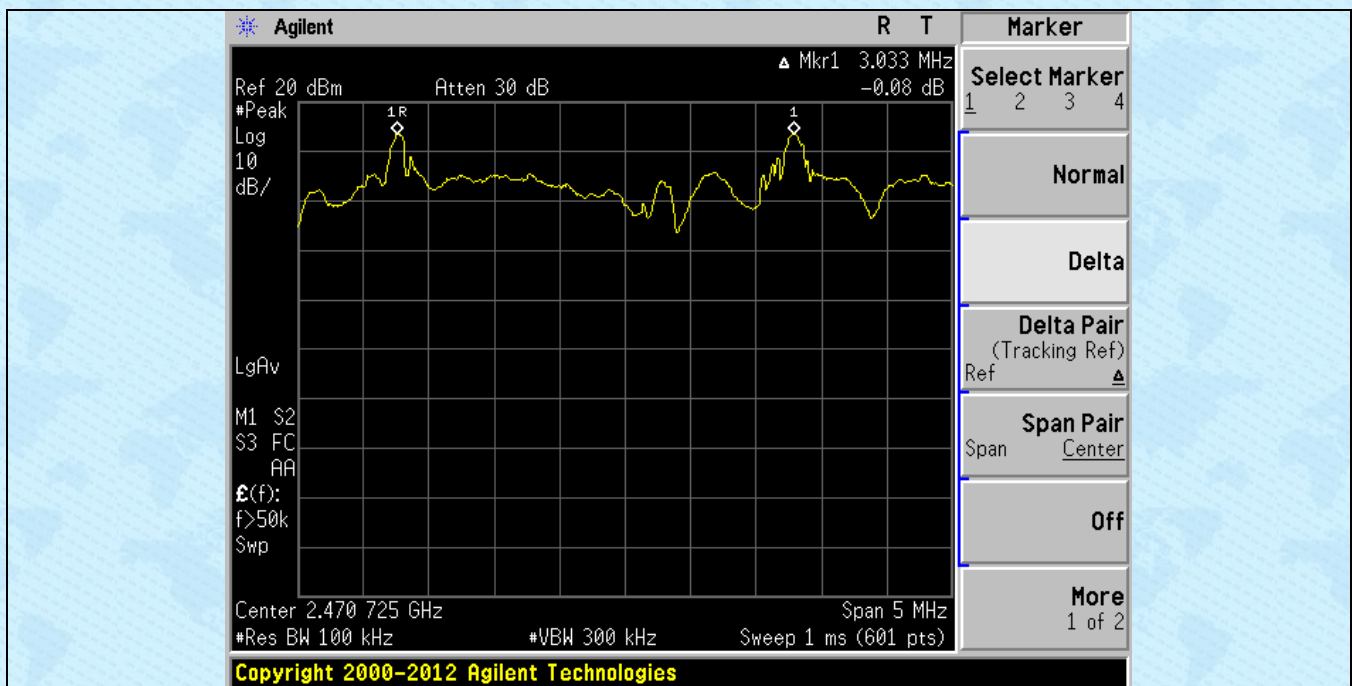
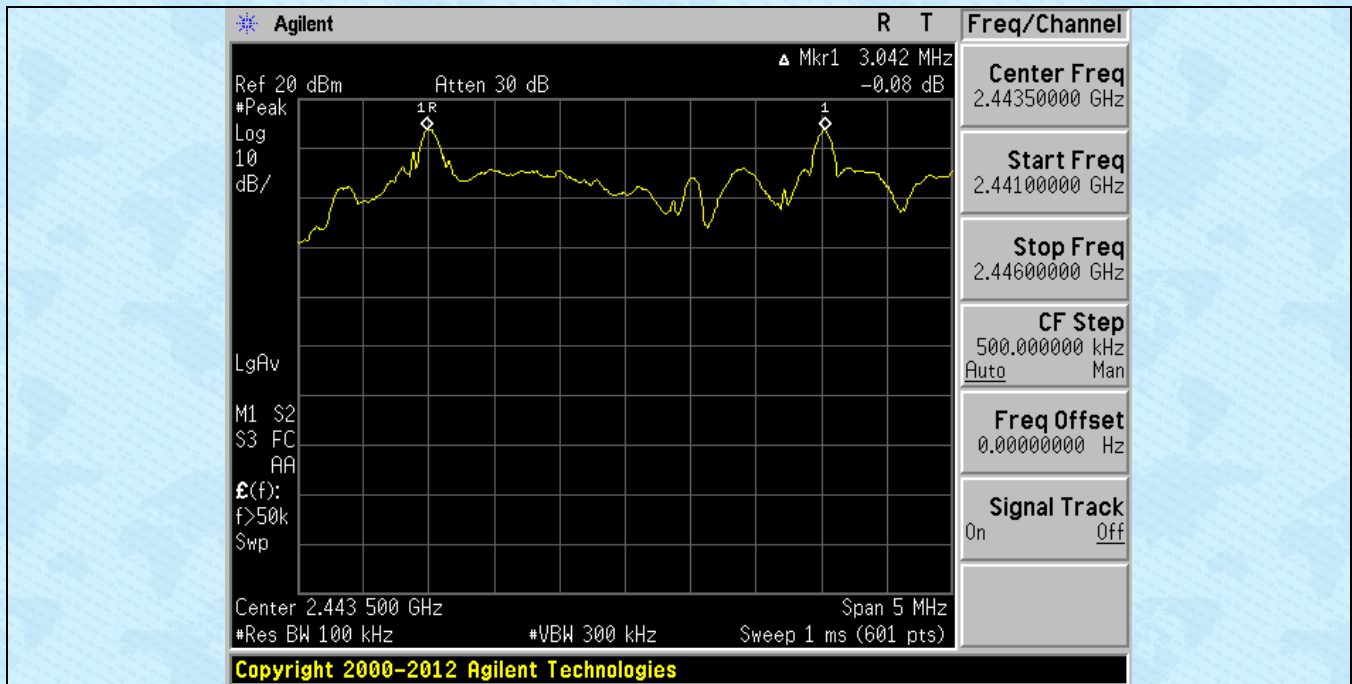
ANT 1:





ANT 2:





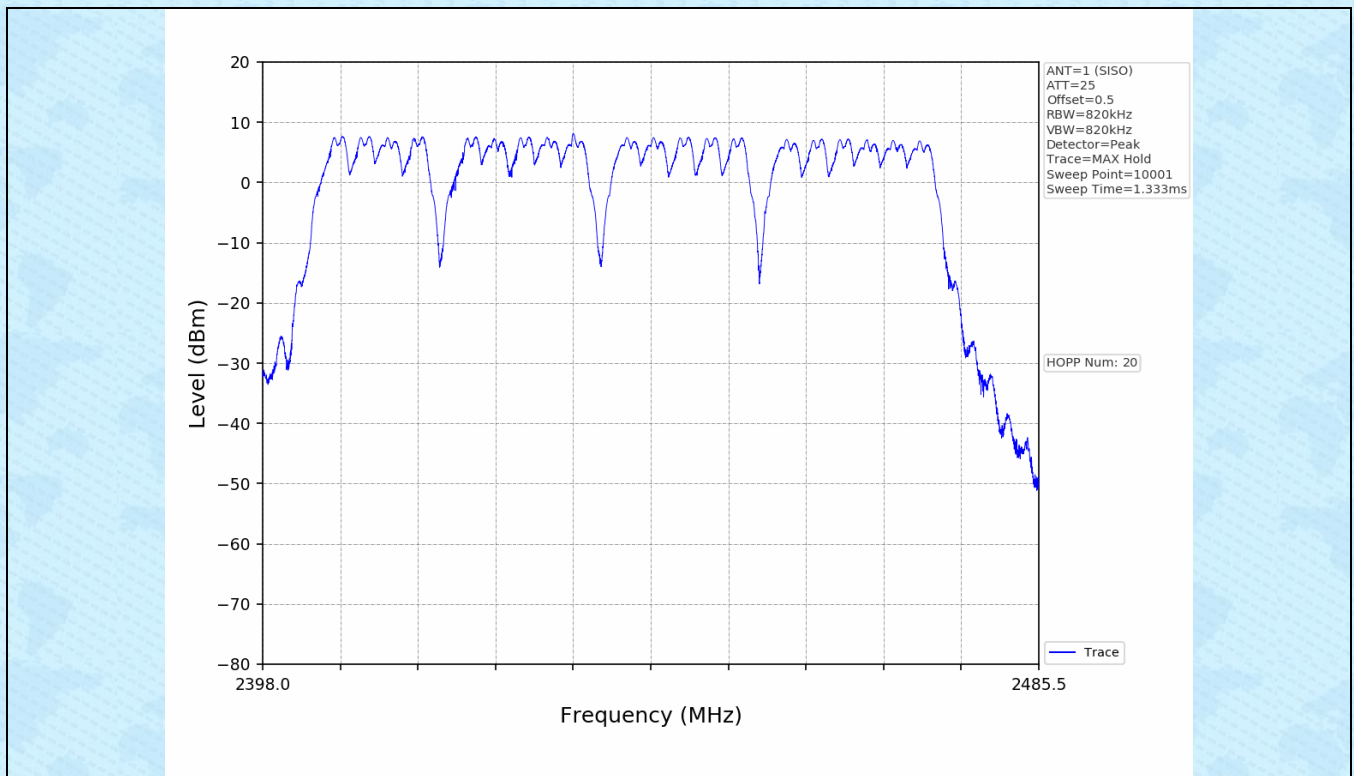
4. Number of hopping frequencies

4.1 Test Result

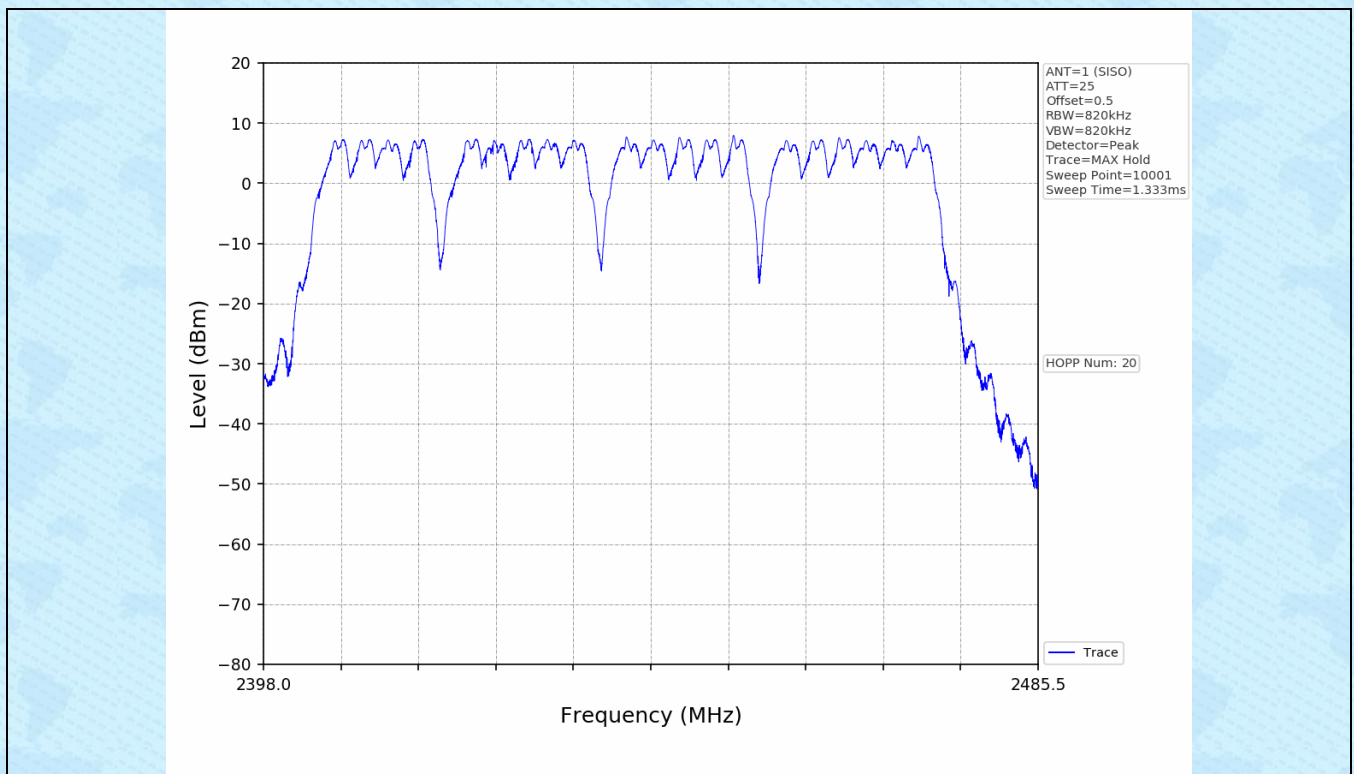
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
FHSS	SISO	1	20	≥15	PASS
	SISO	2	20	≥15	PASS

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	3.8000	121.6000	400	Pass
	Middle	3.8000	121.6000	400	Pass
	Highest	3.8330	122.6560	400	Pass
2	Lowest	3.8330	122.6560	400	Pass
	Middle	3.8000	121.6000	400	Pass
	Highest	3.8000	121.6000	400	Pass

The formula as below:

ANT 1:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8000ms*4*0.4*20=121.6000ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8000ms*4*0.4*20=121.6000ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8330ms*4*0.4*20=122.6560ms

ANT 2:

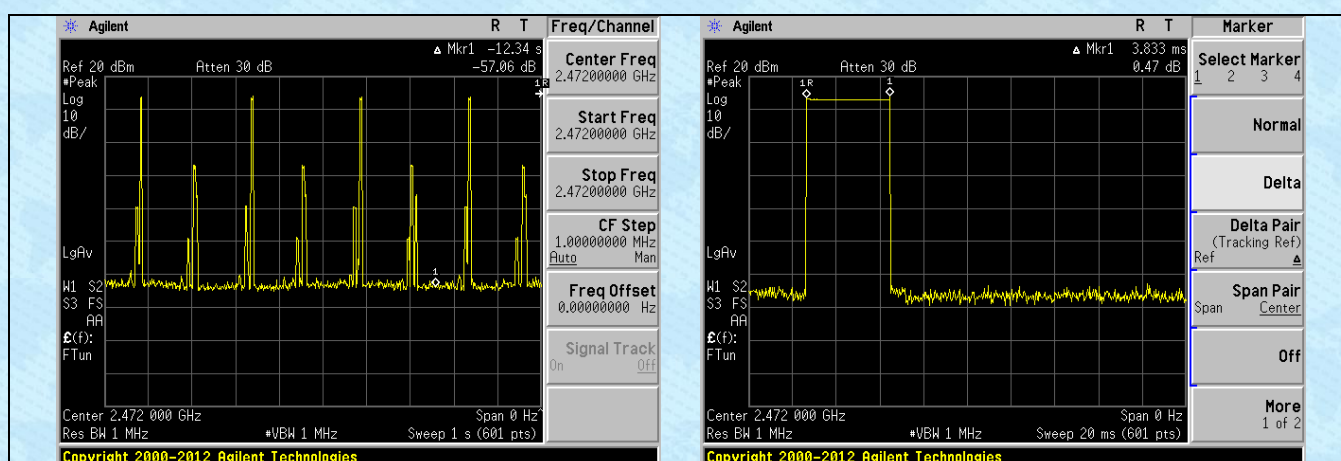
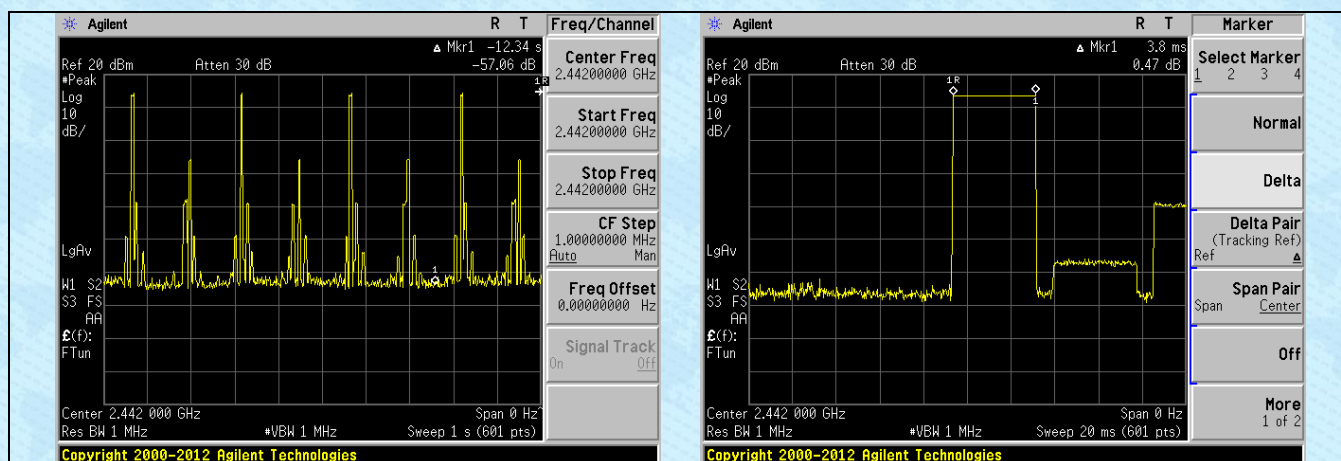
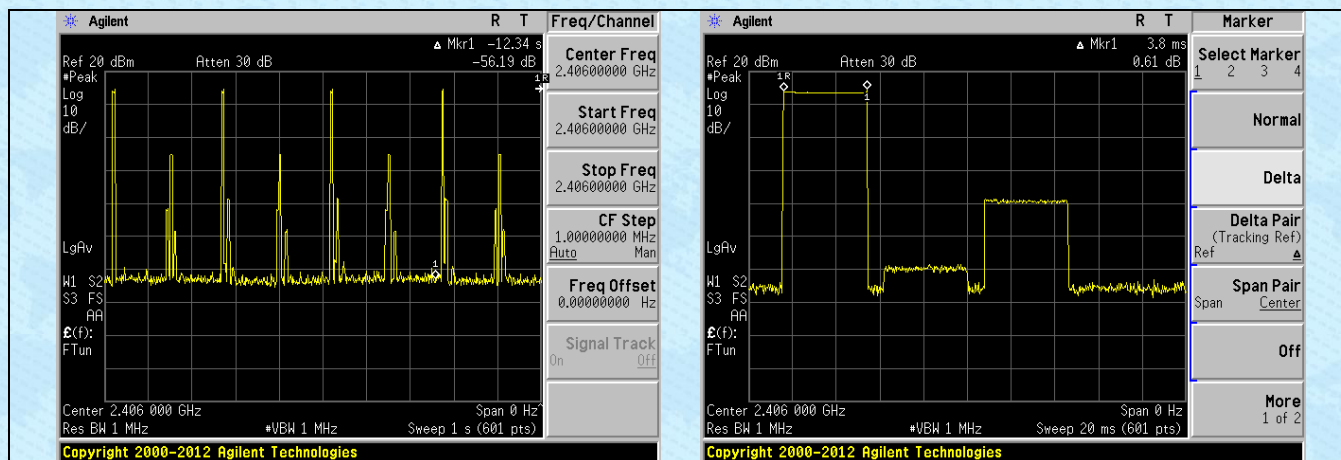
Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8330ms*4*0.4*20=122.6560ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8000ms*4*0.4*20=121.6000ms

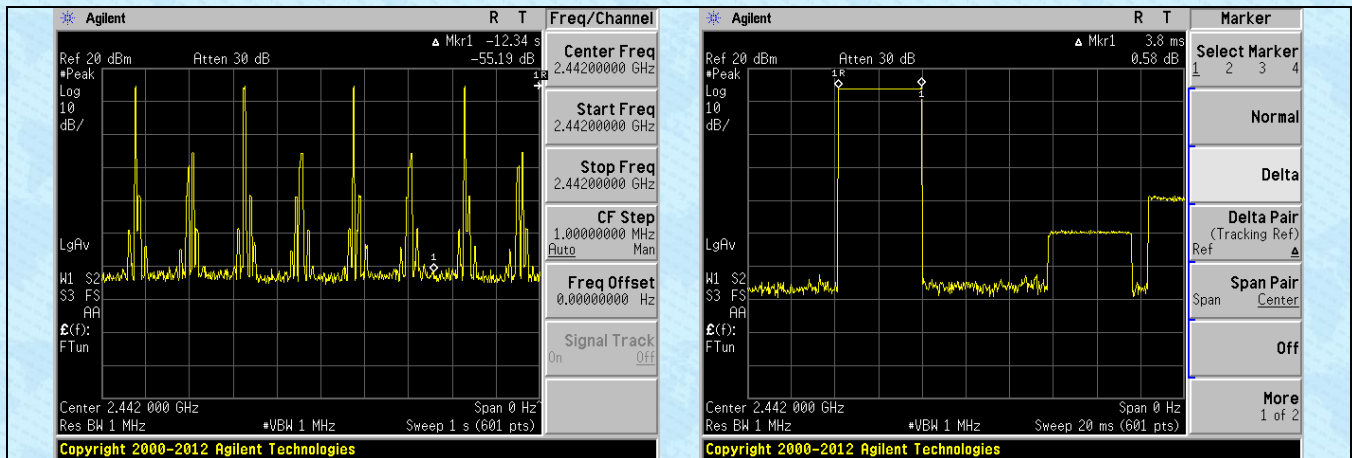
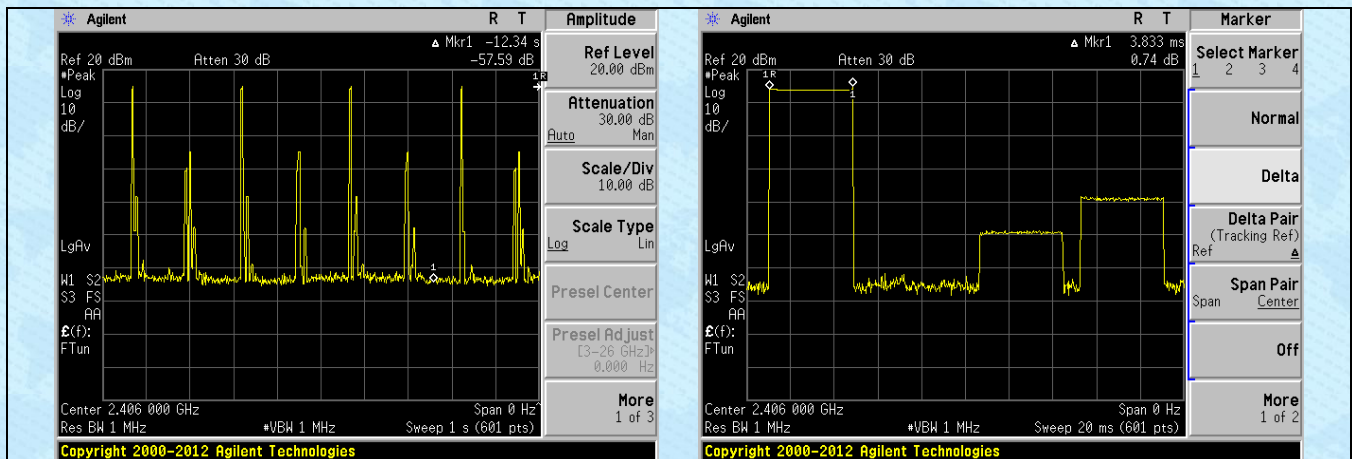
Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.8000ms*4*0.4*20=121.6000ms

5.2 Test Graph

ANT 1:



ANT 2:



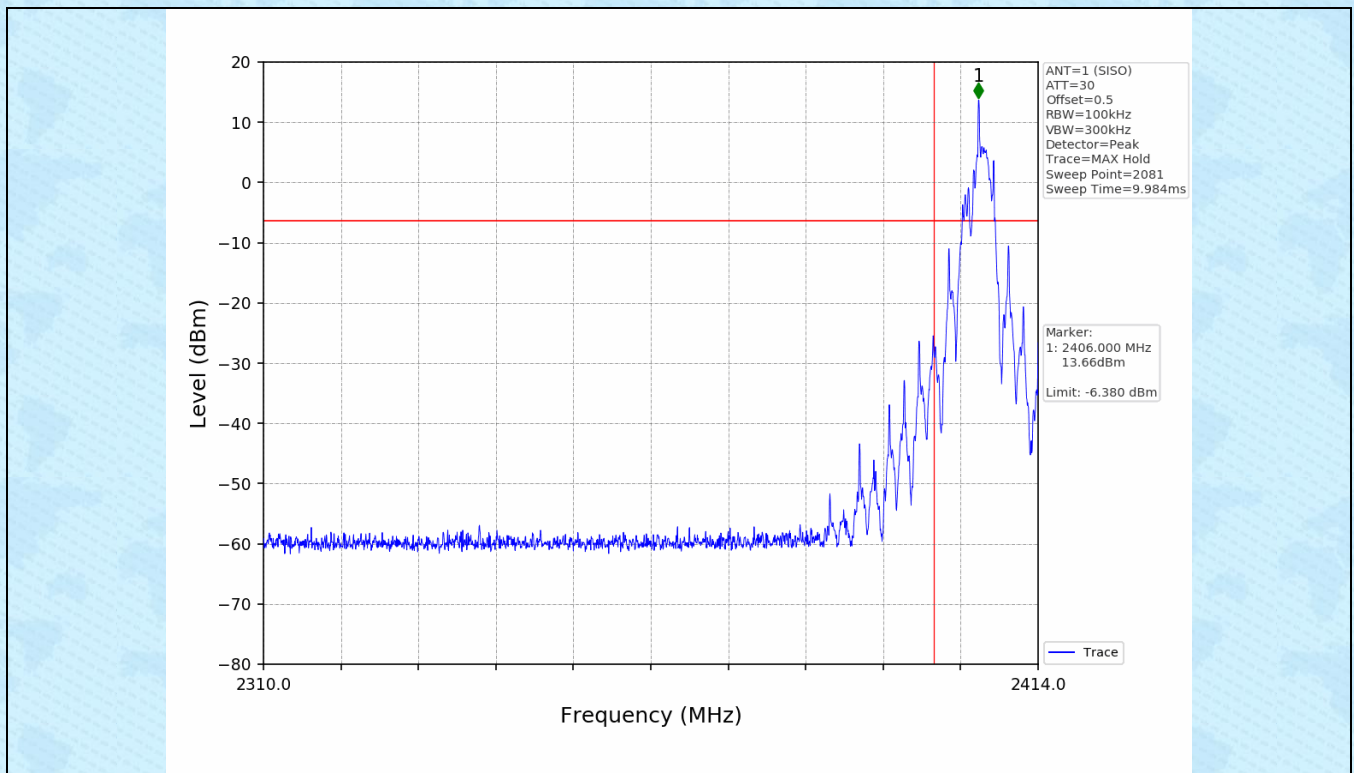
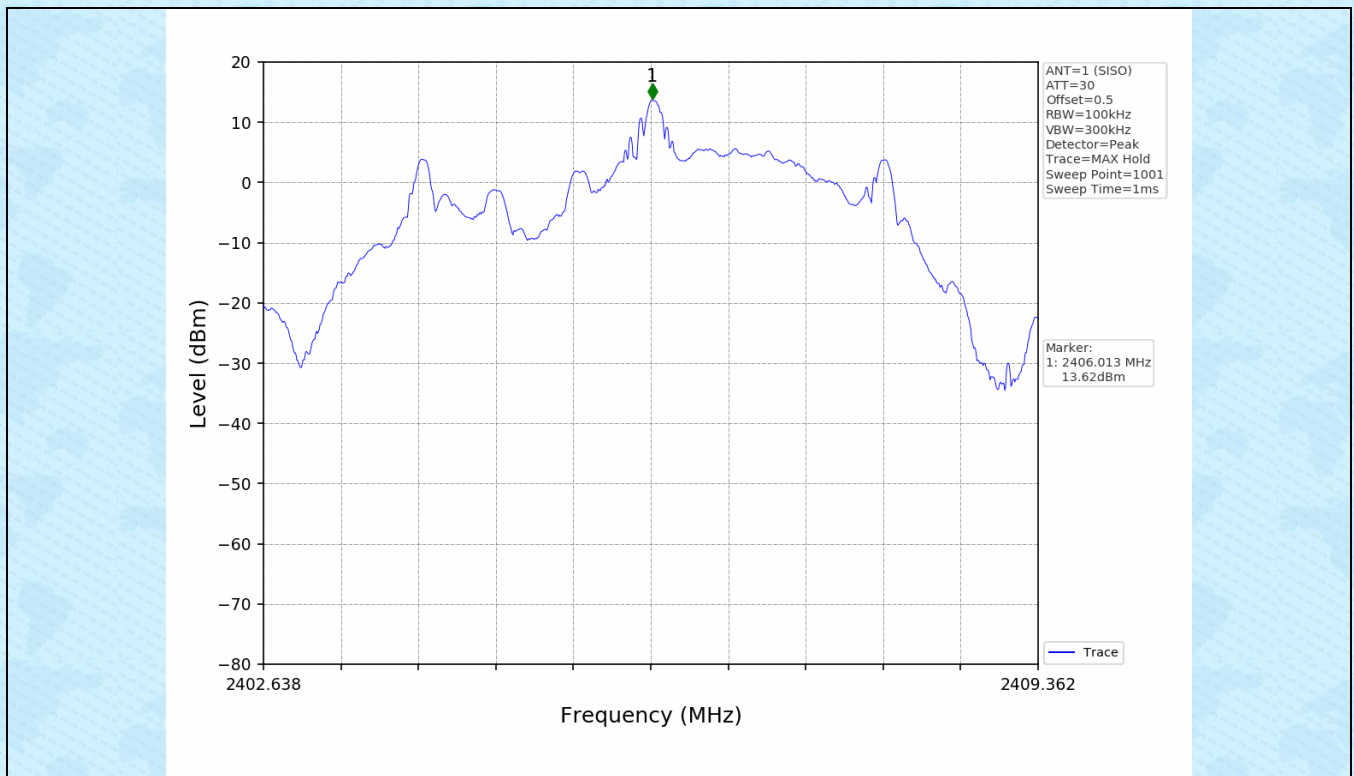
6. Unwanted Emissions in Non-restricted Frequency Bands

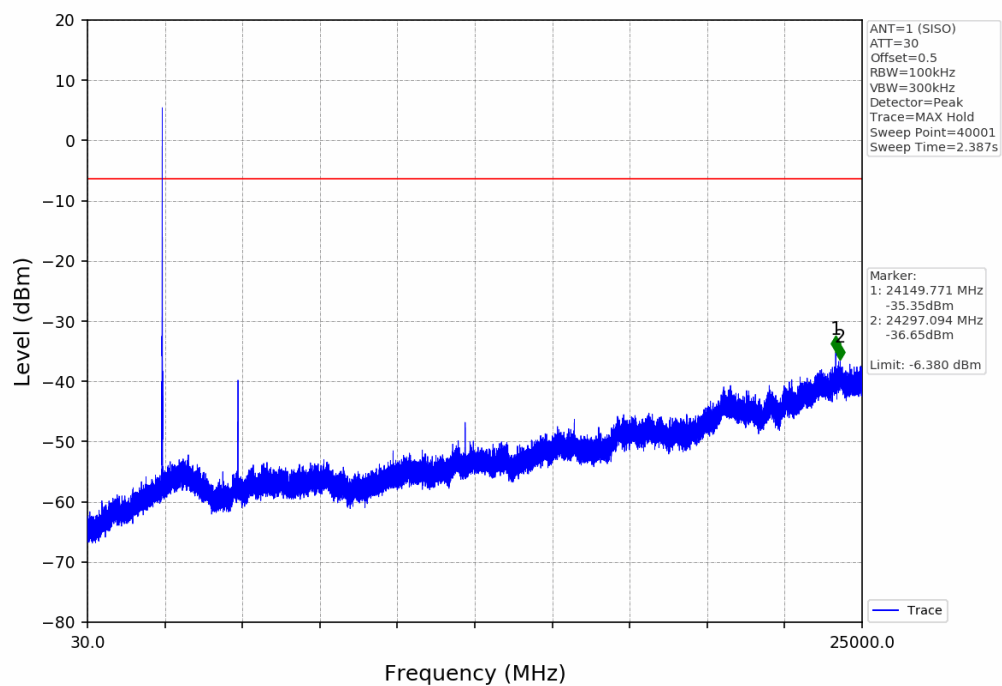
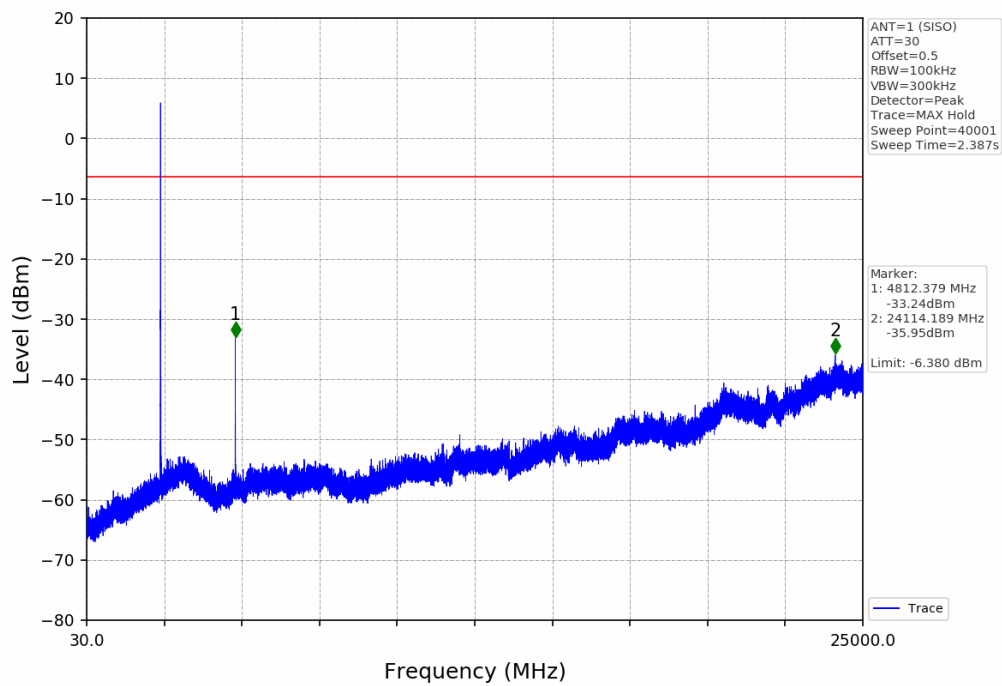
6.1 Test Result

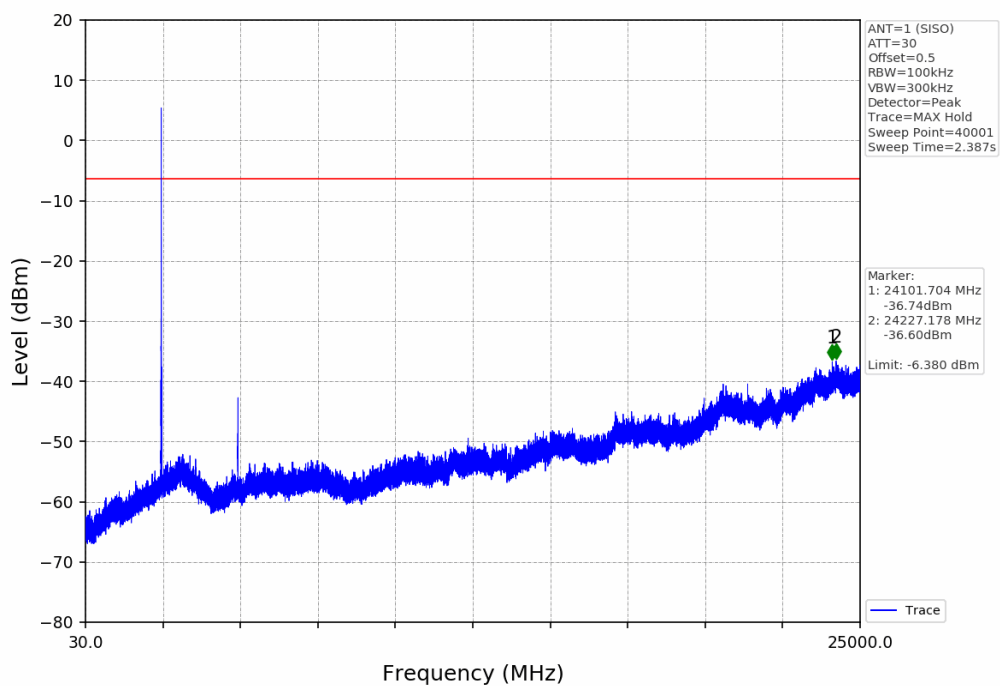
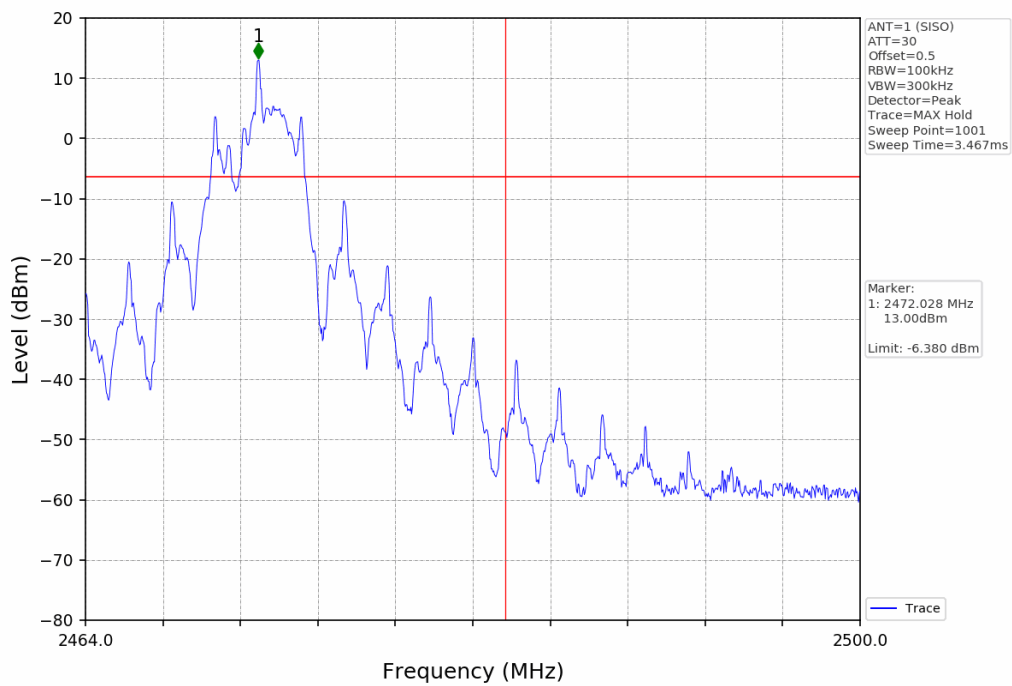
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
FHSS	2406	SISO	1	Refer to test graph	-6.38	PASS
	2440	SISO	1	Refer to test graph	-6.38	PASS
	2472	SISO	1	Refer to test graph	-6.38	PASS
	Hopping	SISO	1	Refer to test graph	-6.38	PASS
	2406	SISO	2	Refer to test graph	-6.13	PASS
	2440	SISO	2	Refer to test graph	-6.13	PASS
	2472	SISO	2	Refer to test graph	-6.13	PASS
	Hopping	SISO	2	Refer to test graph	-6.13	PASS

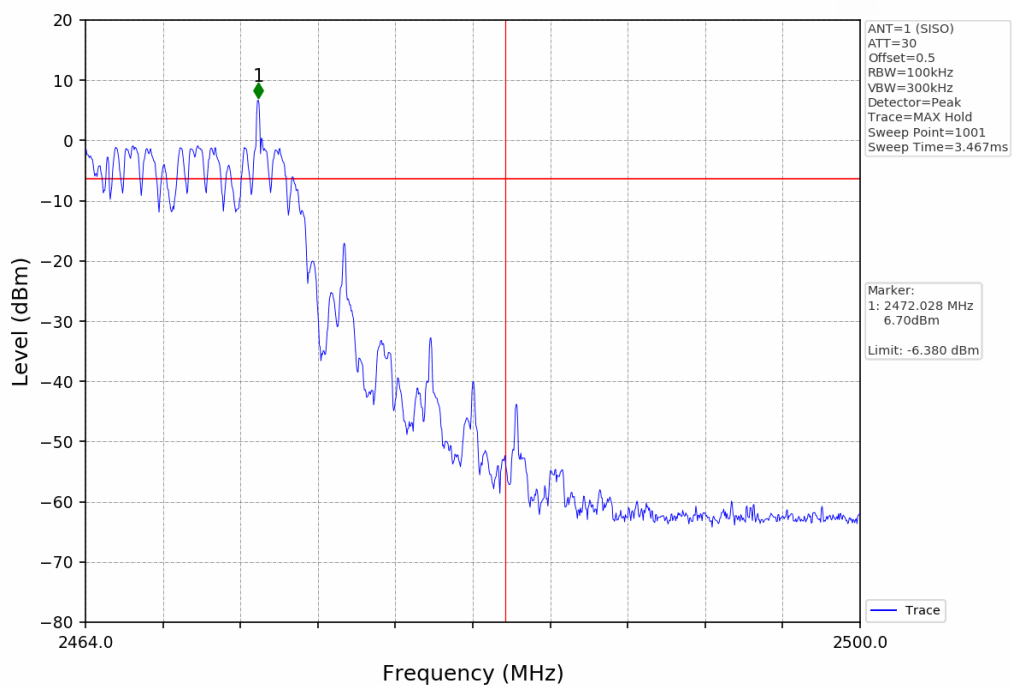
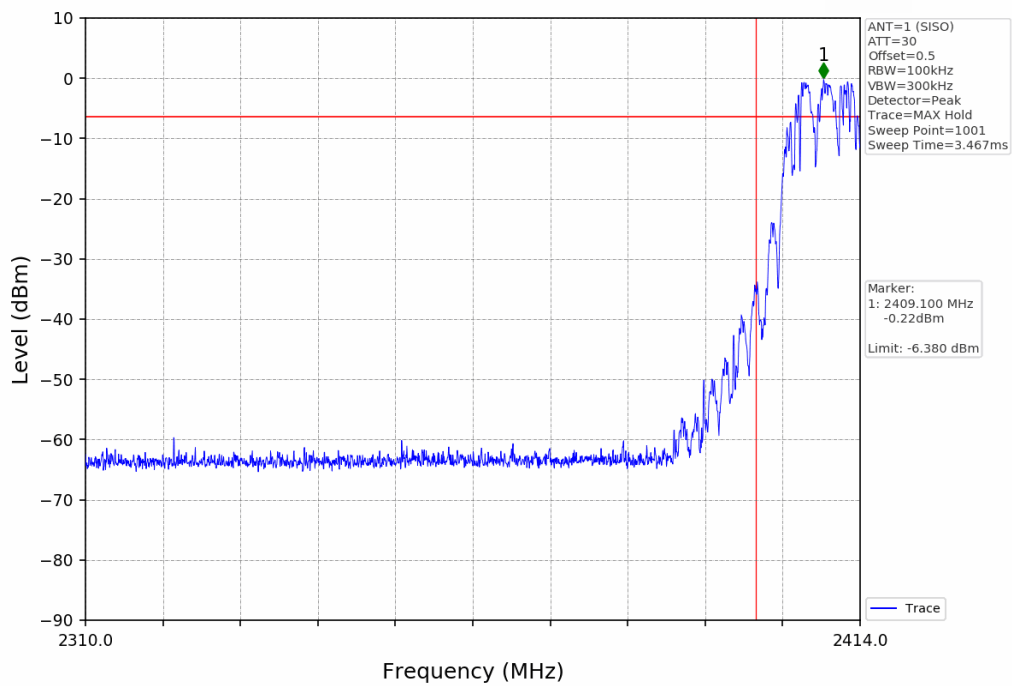
6.2 Test Graph

ANT 1:

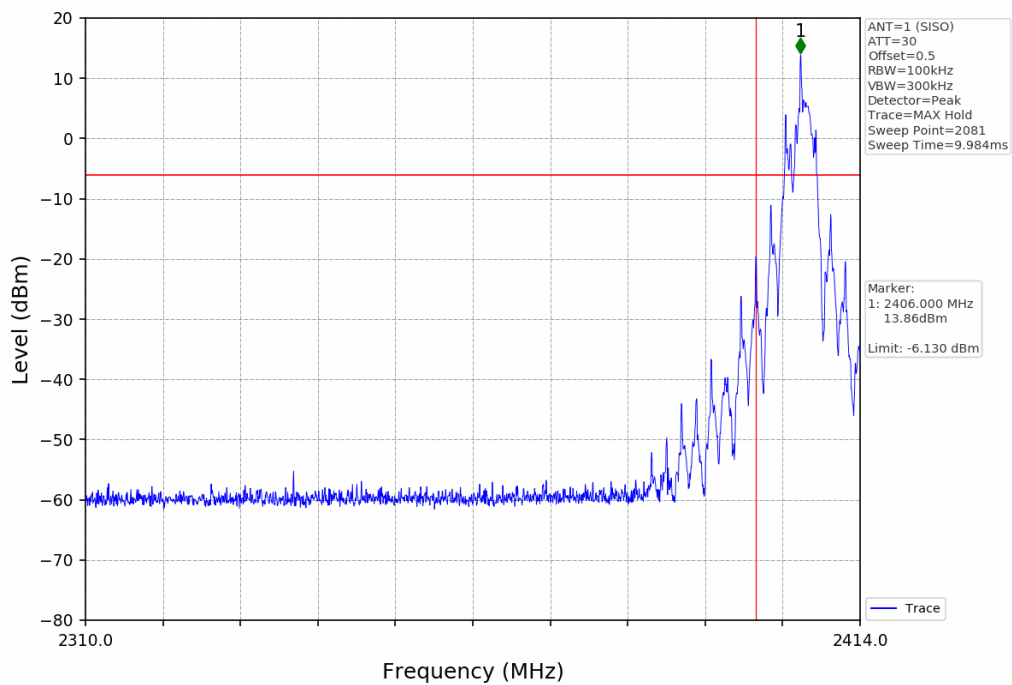
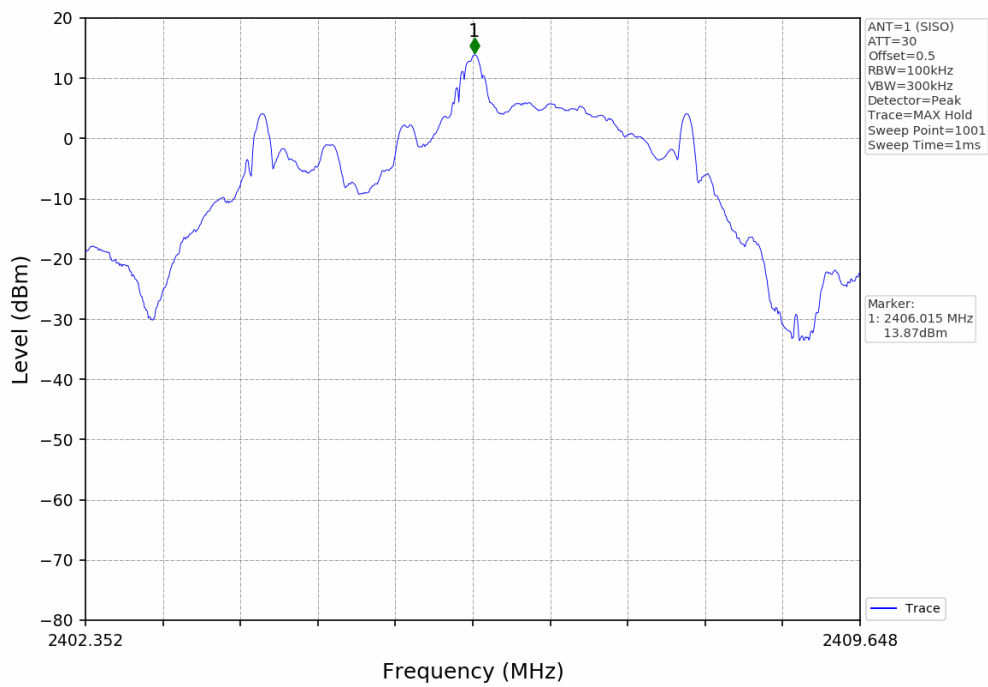


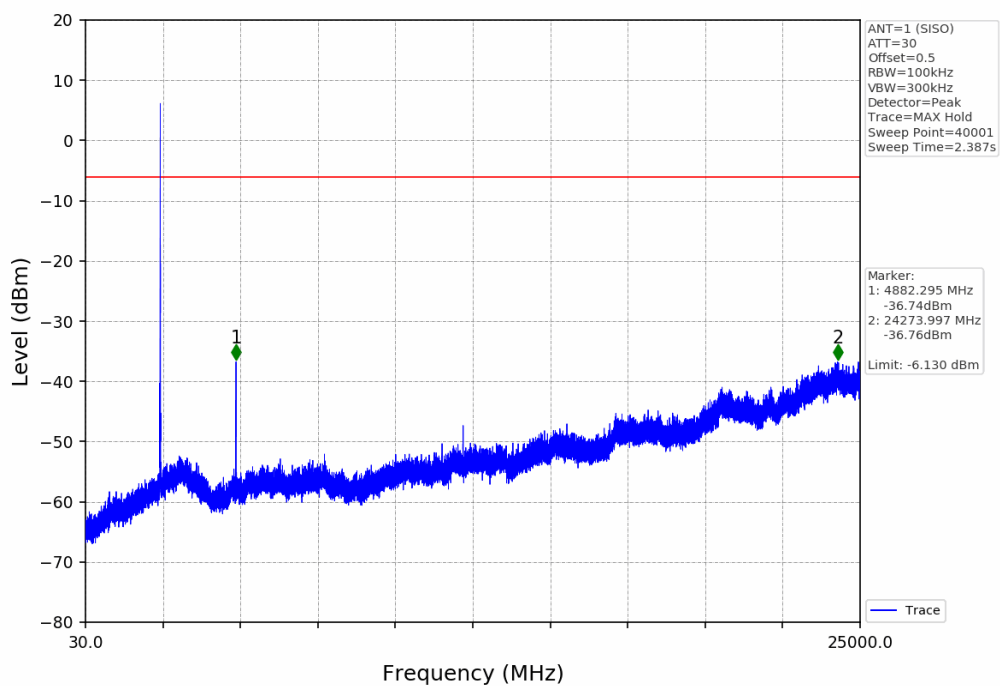
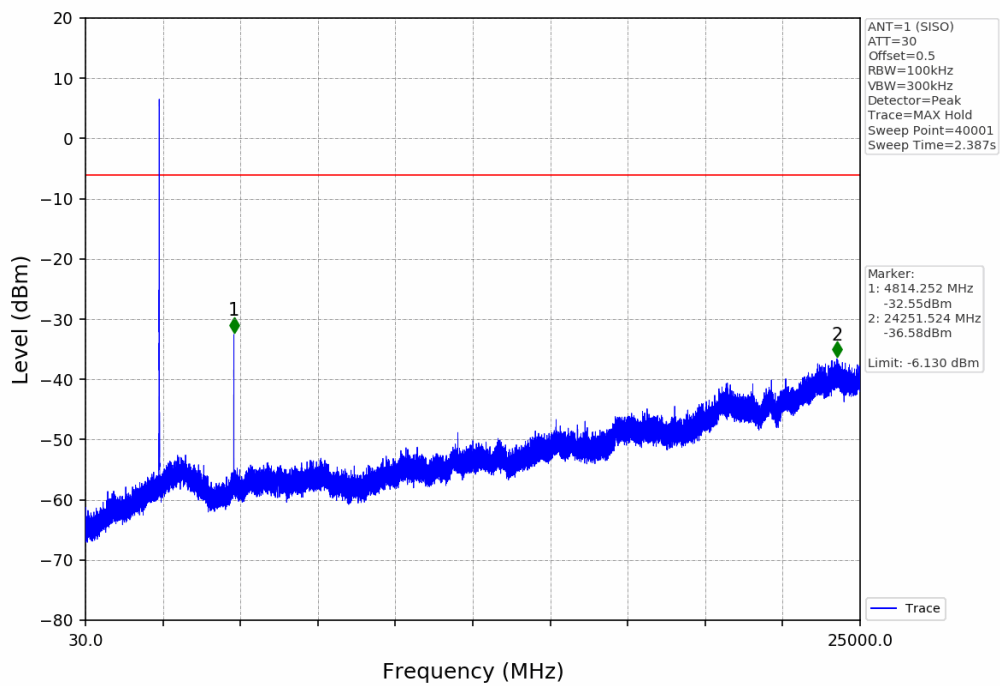


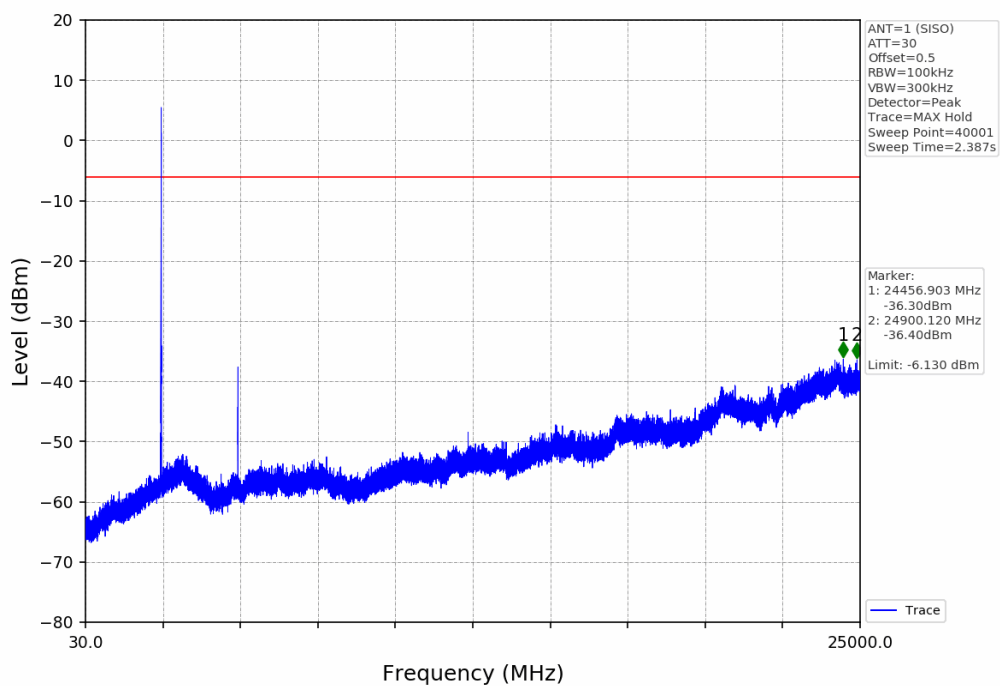
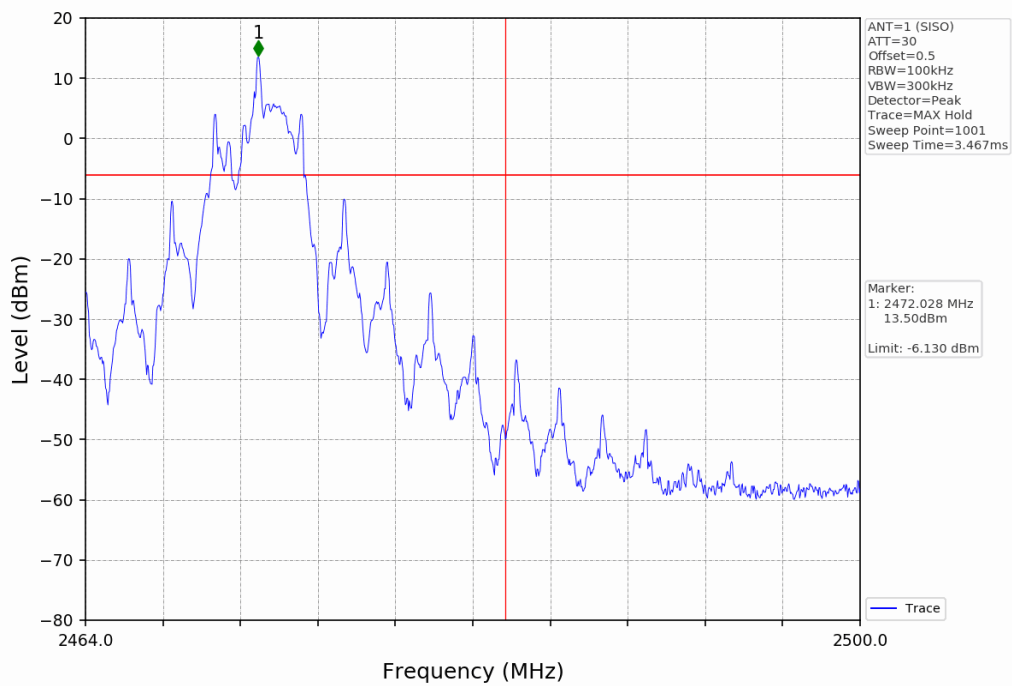


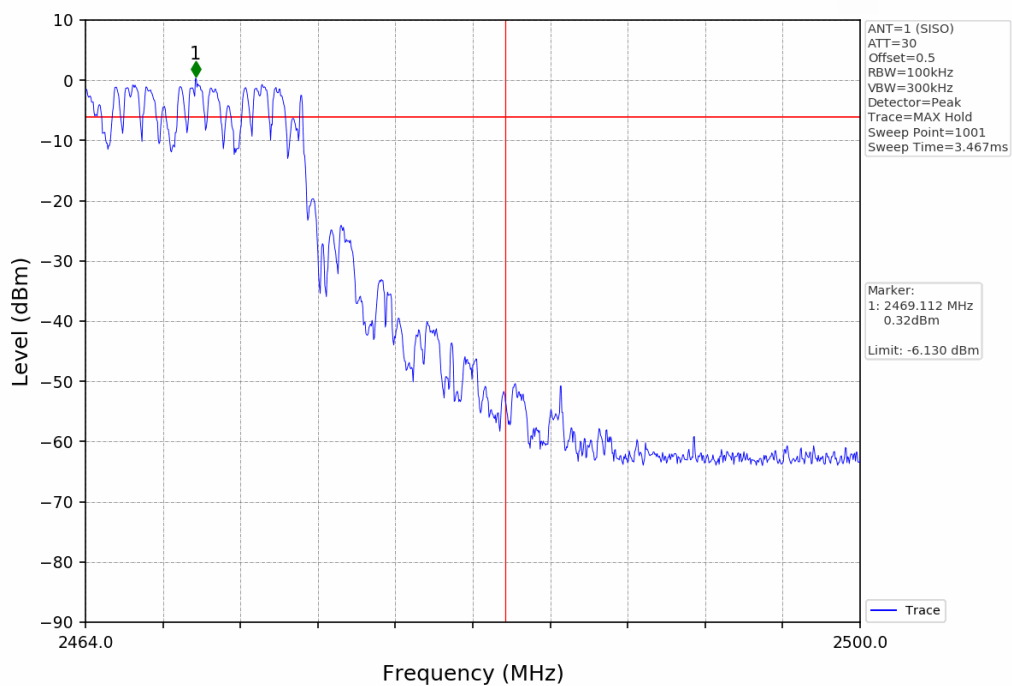
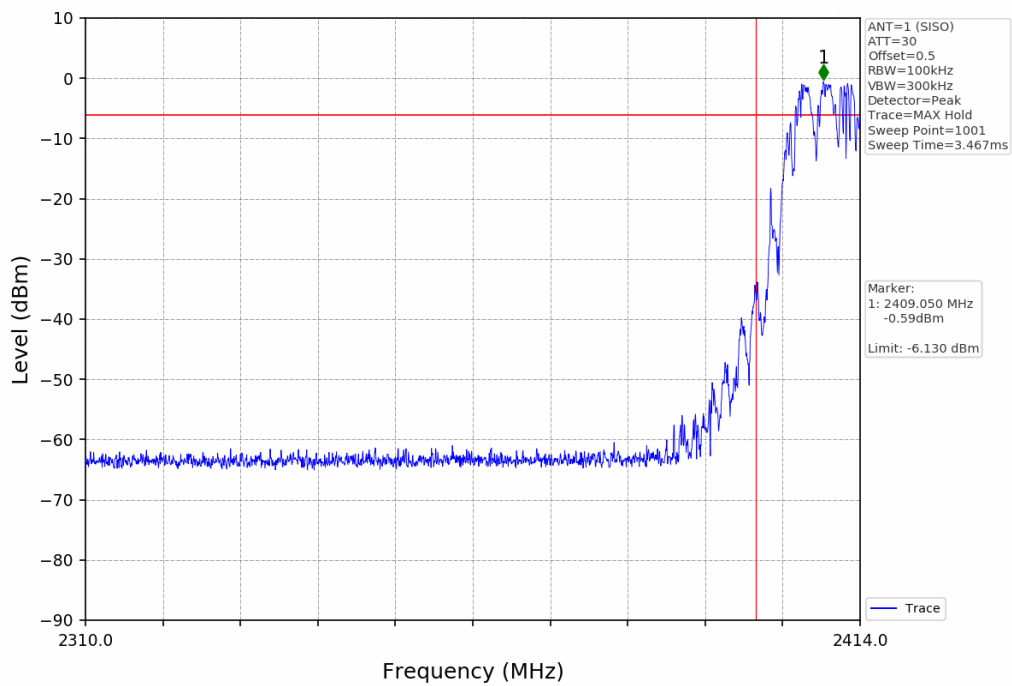


ANT 2:









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