

Appendix for 15.247

1. Bandwidth

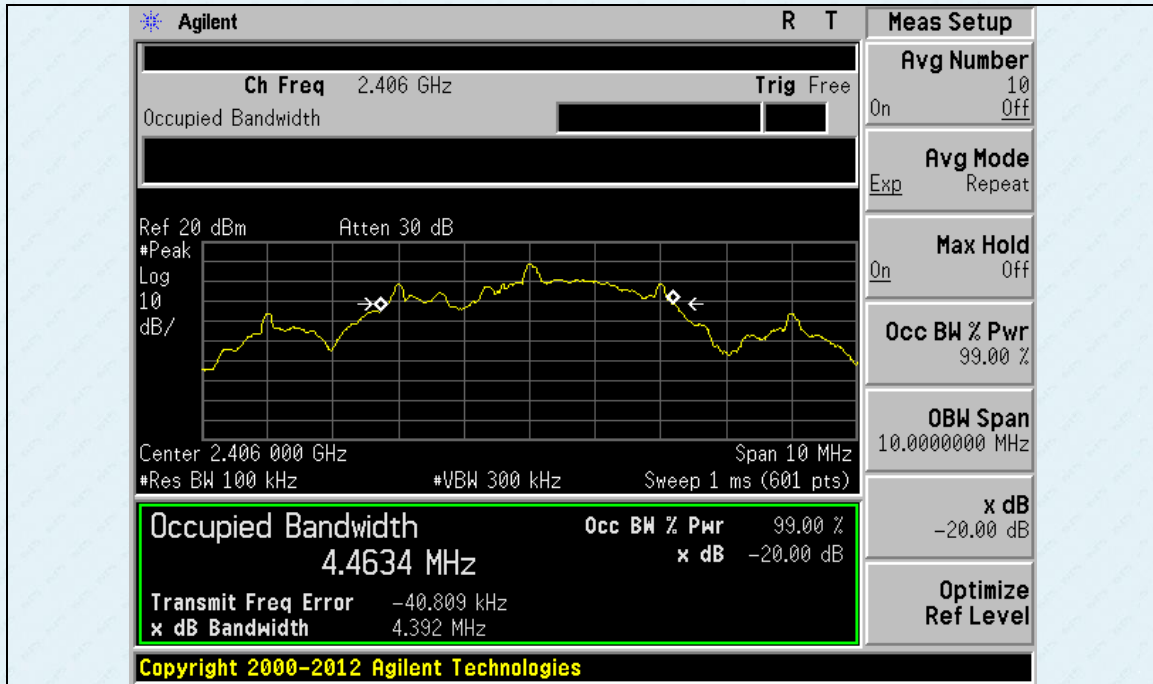
1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	
				Test Result (MHz)	Verdict
FHSS	2406	SISO	1	4.392	PASS
	2440	SISO	1	4.454	PASS
	2472	SISO	1	4.331	PASS
	2406	SISO	2	4.408	PASS
	2440	SISO	2	4.437	PASS
	2472	SISO	2	4.249	PASS

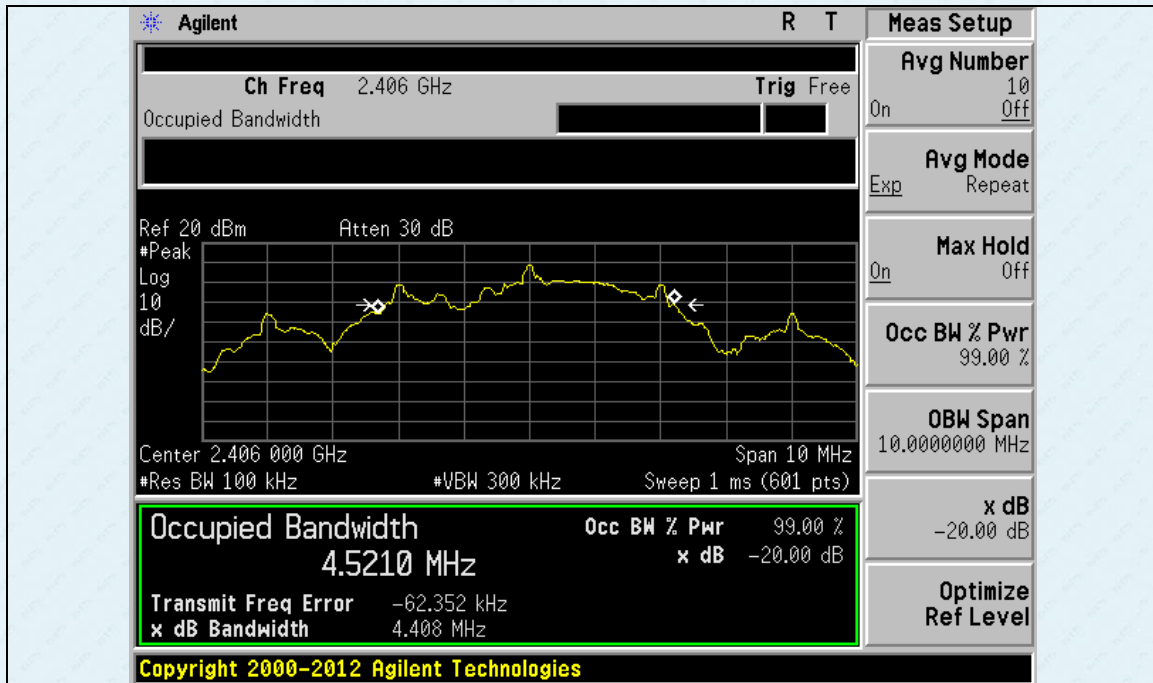
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	Verdict
FHSS	2406	SISO	1	4.463	Only for Report Use
	2440	SISO	1	4.669	Only for Report Use
	2472	SISO	1	4.560	Only for Report Use
	2406	SISO	2	4.521	Only for Report Use
	2440	SISO	2	4.672	Only for Report Use
	2472	SISO	2	4.567	Only for Report Use

1.2 Test Graph

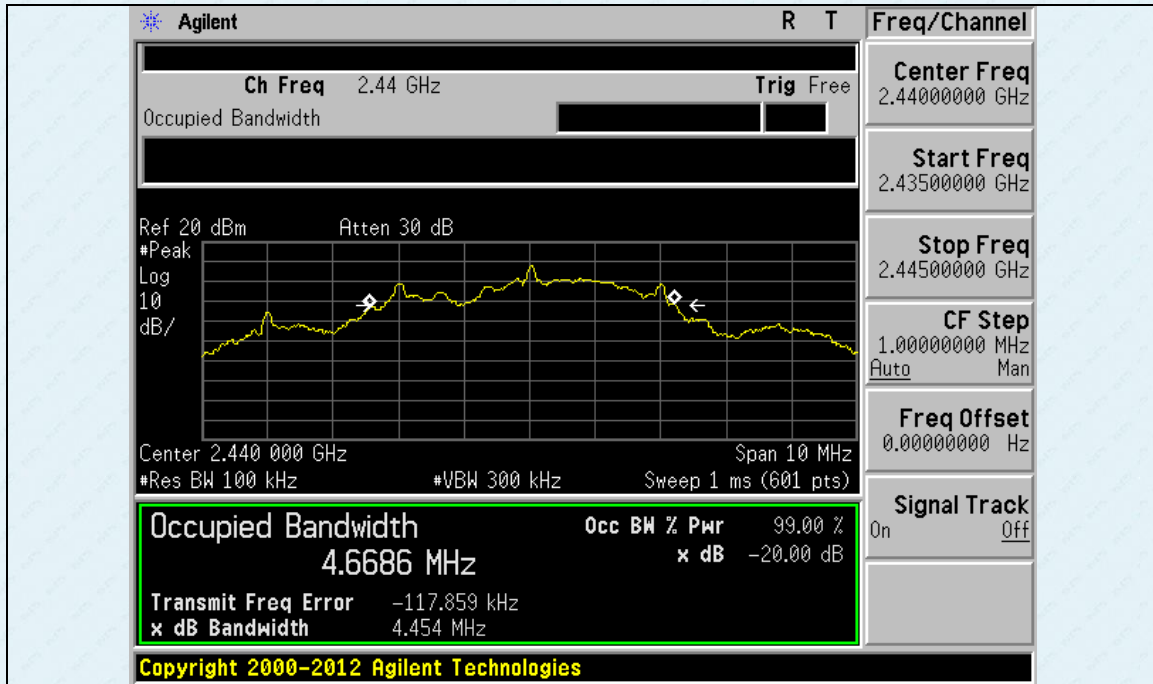
ANT 1:



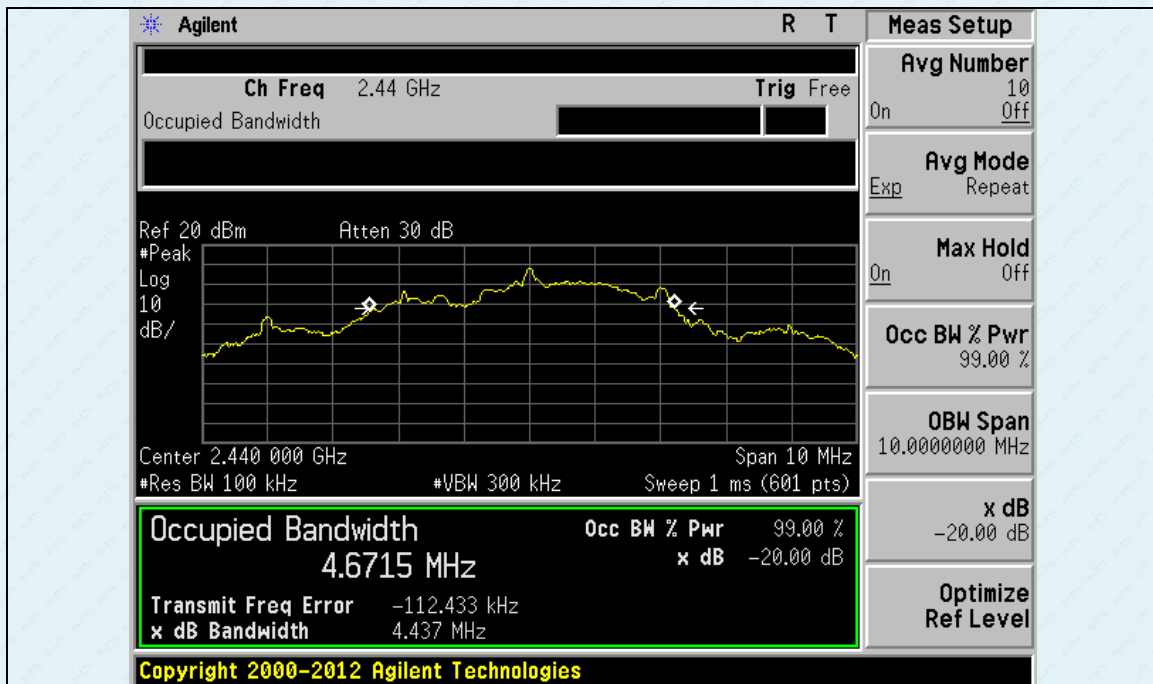
ANT 2



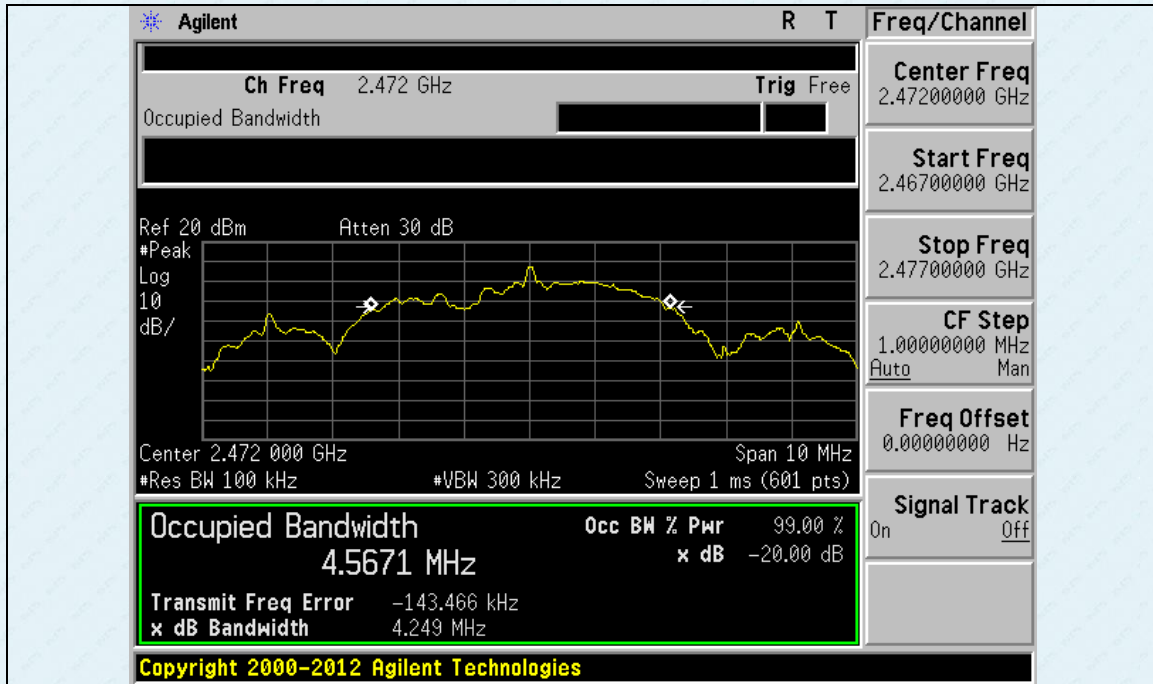
ANT 1:



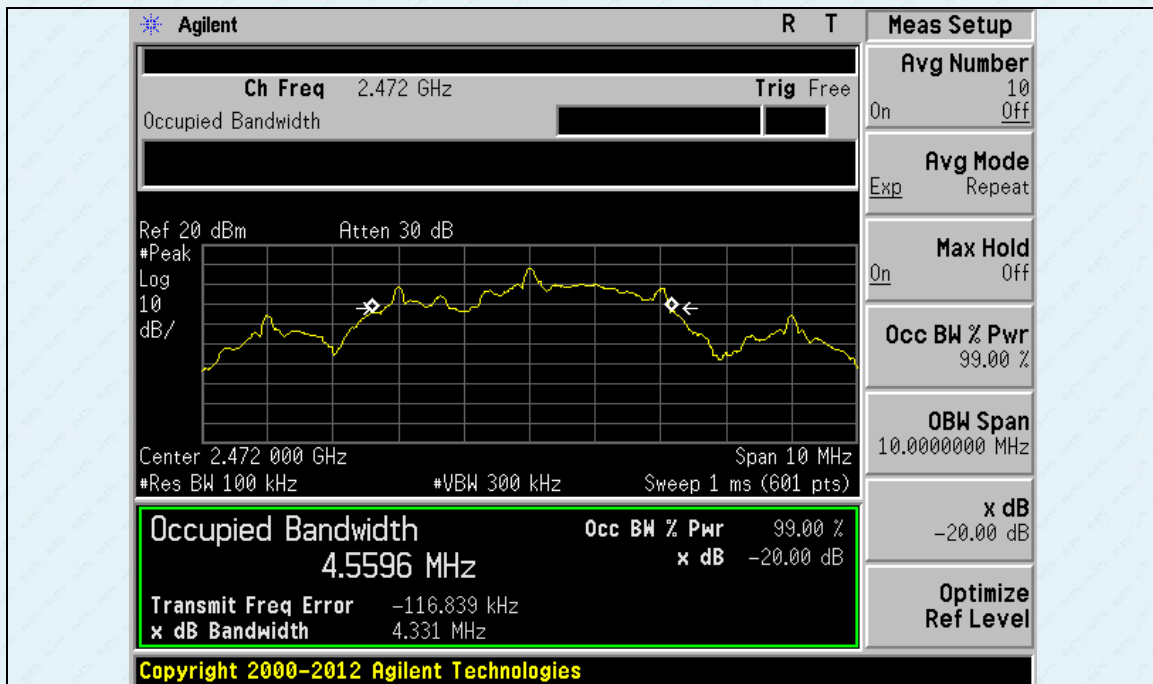
ANT 2:



ANT 1:



ANT 2:



2. Maximum Conducted Output Power

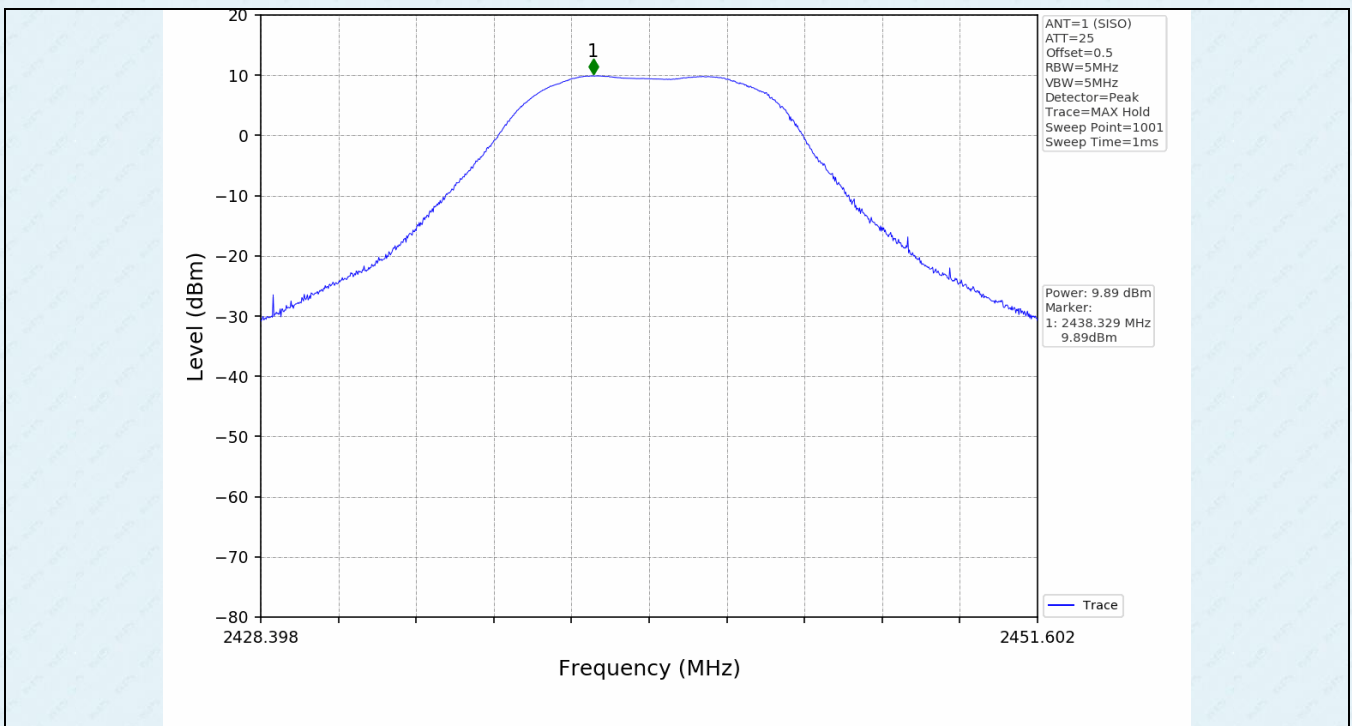
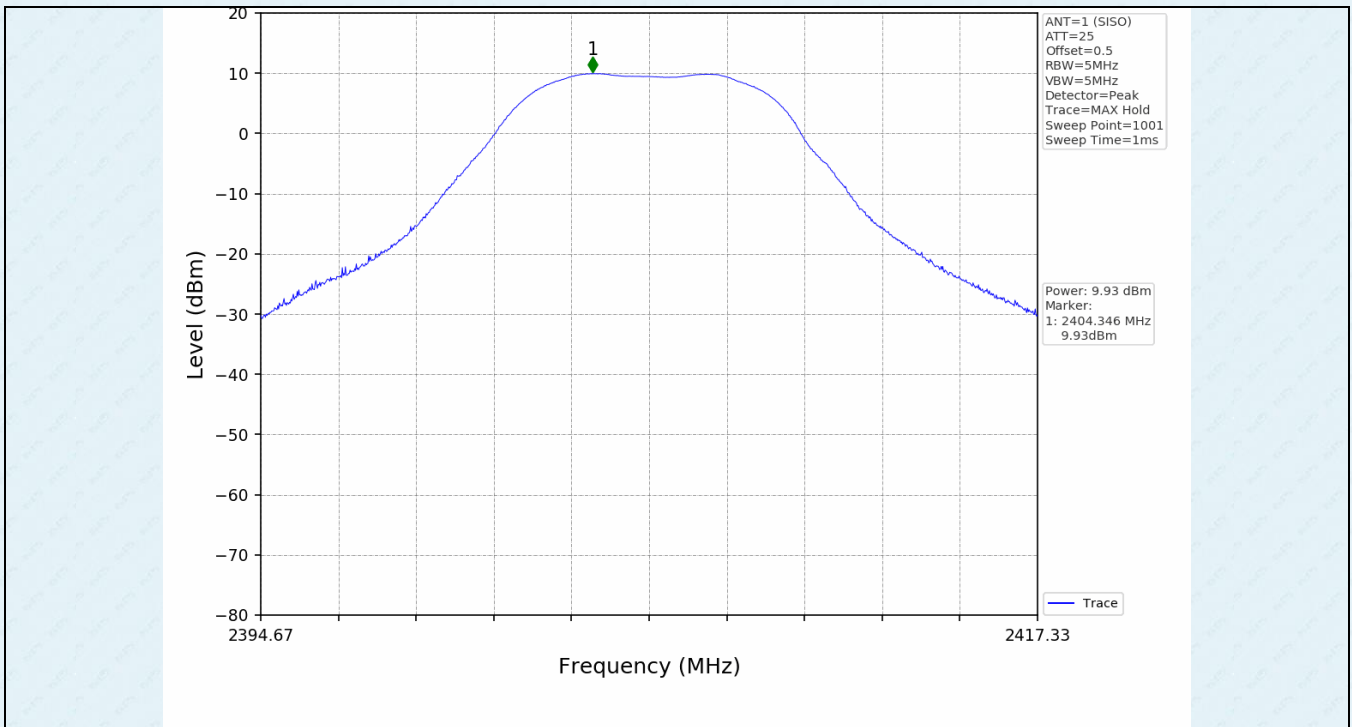
2.1 Test Result

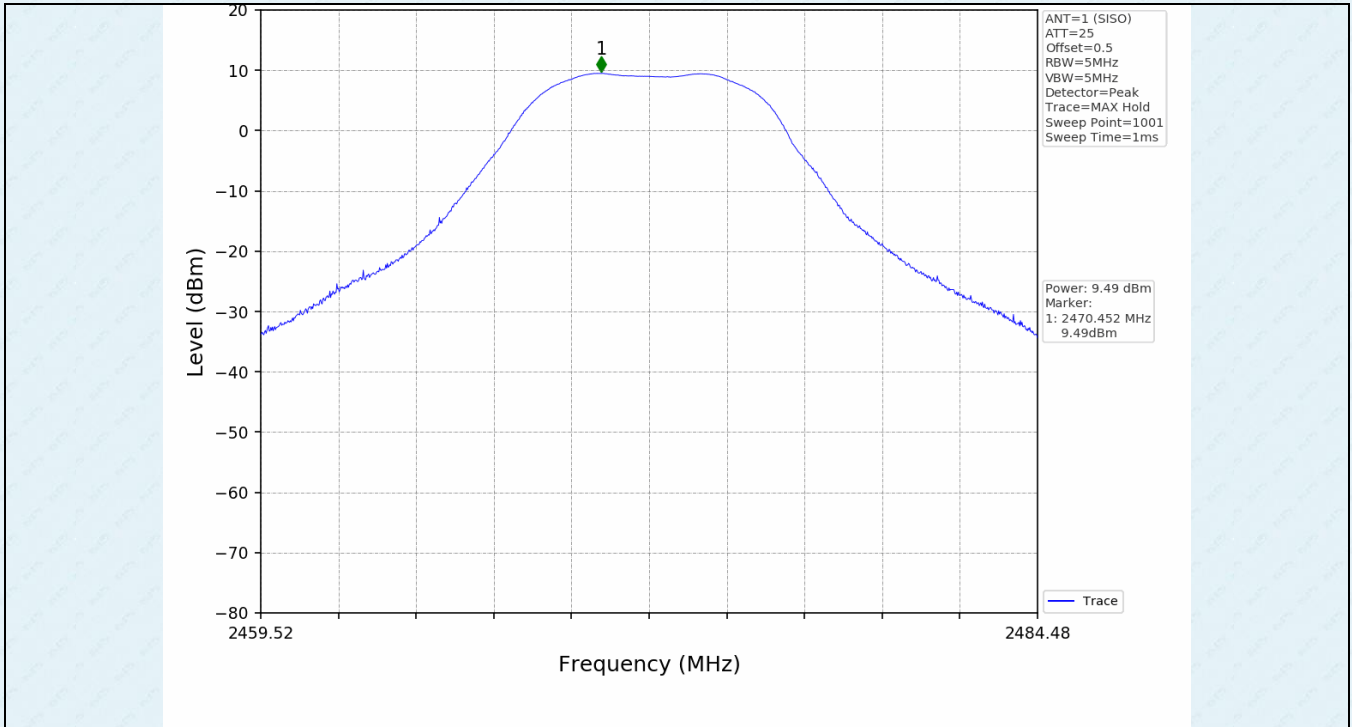
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
FHSS	2406	SISO	9.93	20.97	PASS
	2440	SISO	9.89	20.97	PASS
	2472	SISO	9.49	20.97	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
FHSS	2406	SISO	9.96	20.97	PASS
	2440	SISO	9.90	20.97	PASS
	2472	SISO	9.47	20.97	PASS

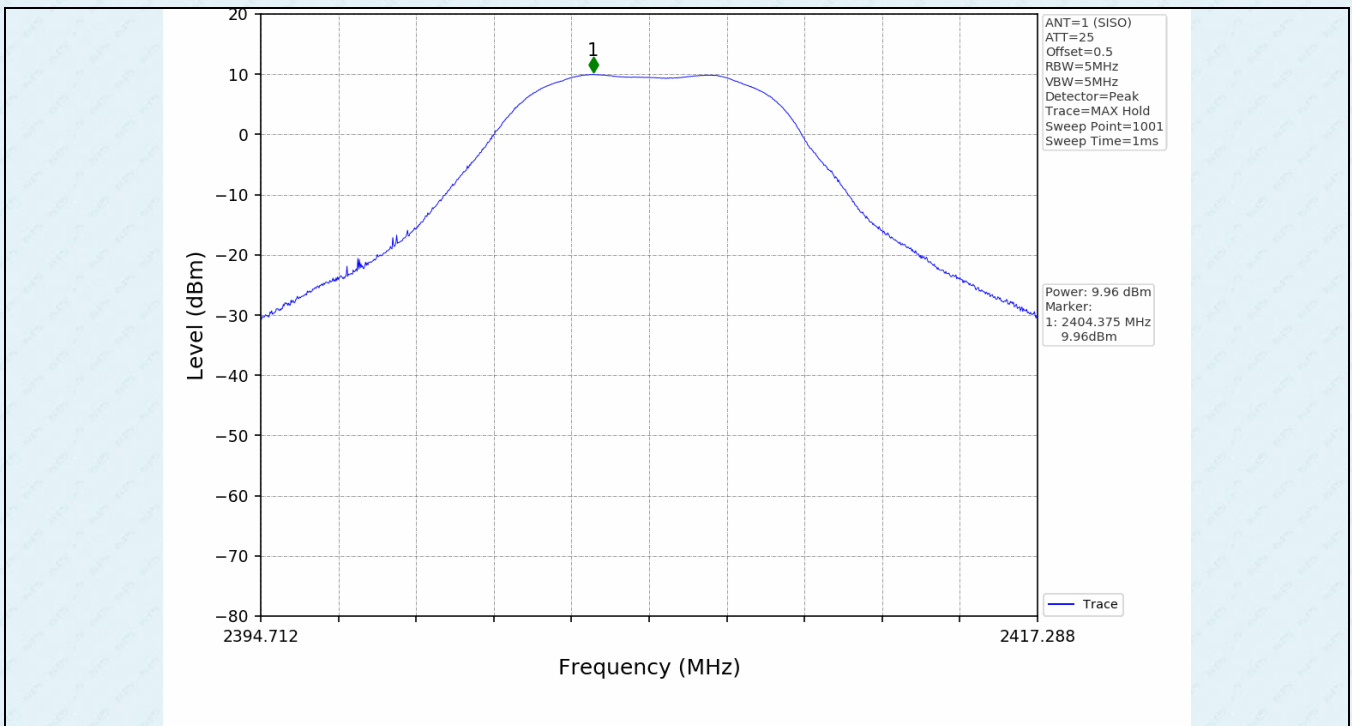
2.2 Test Graph

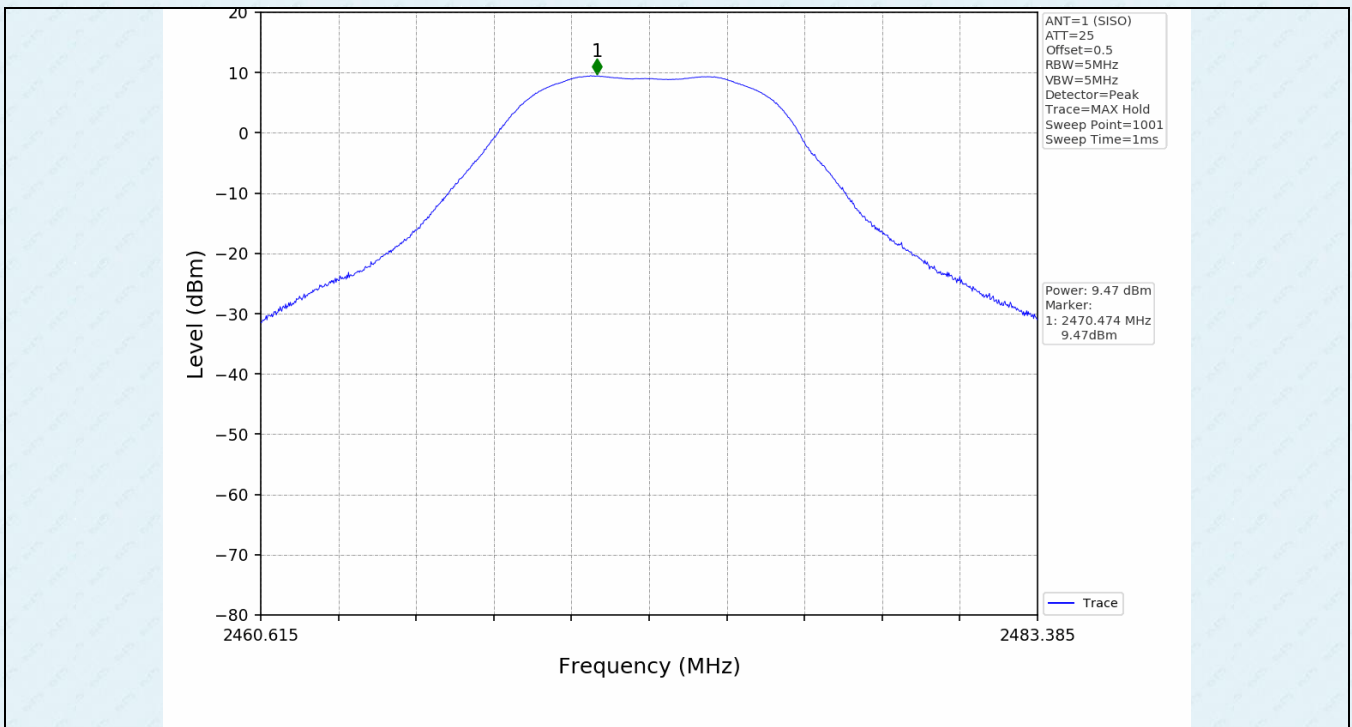
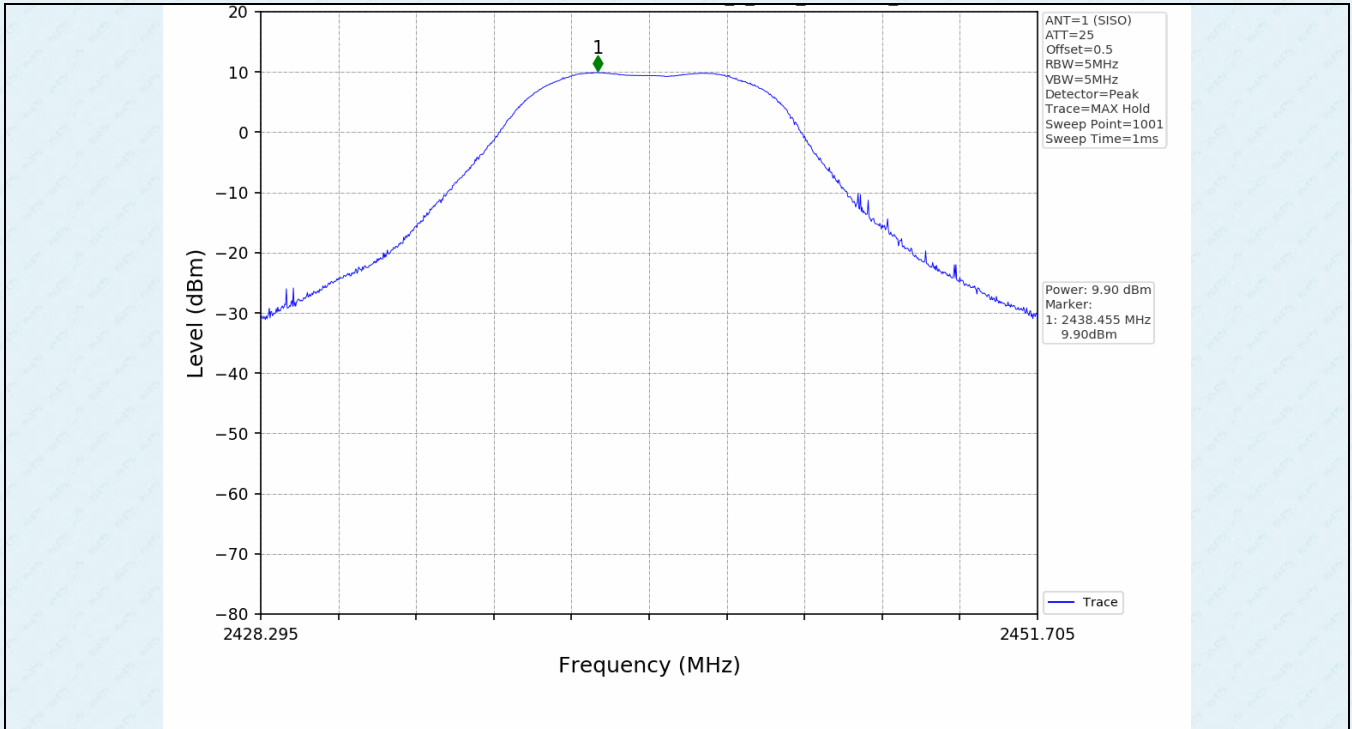
ANT 1:





ANT 2:





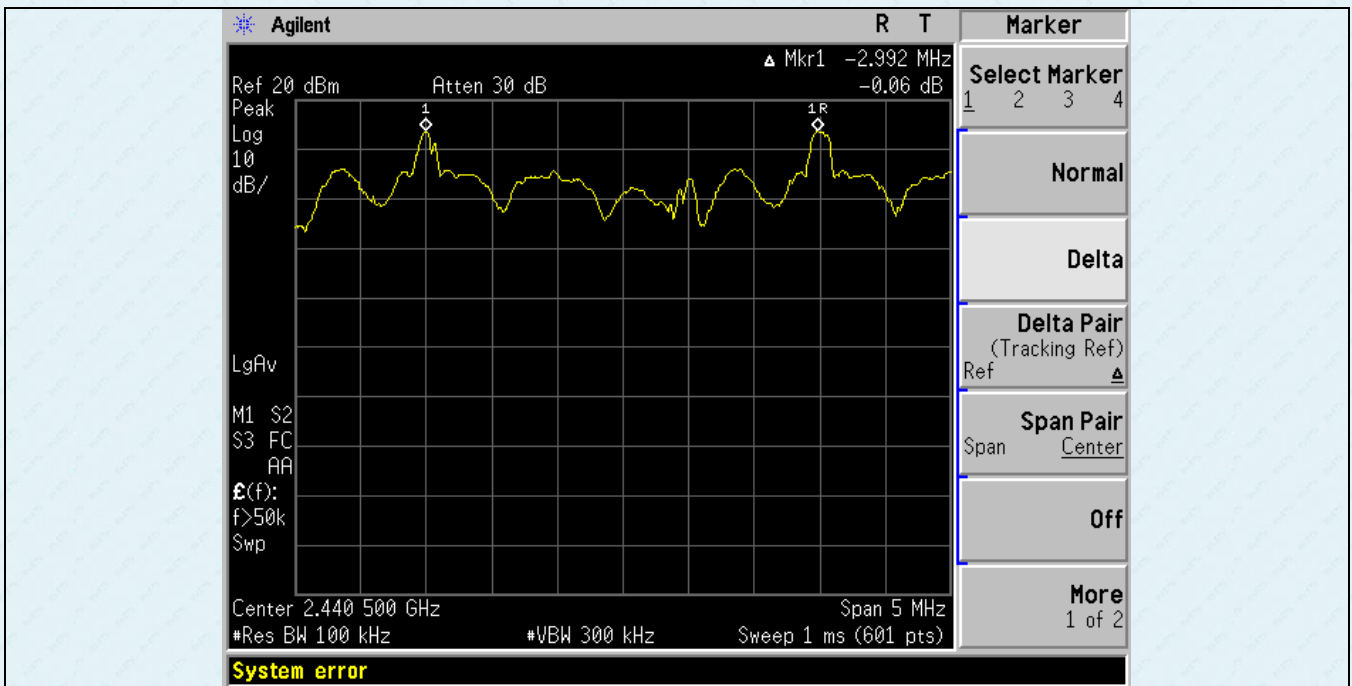
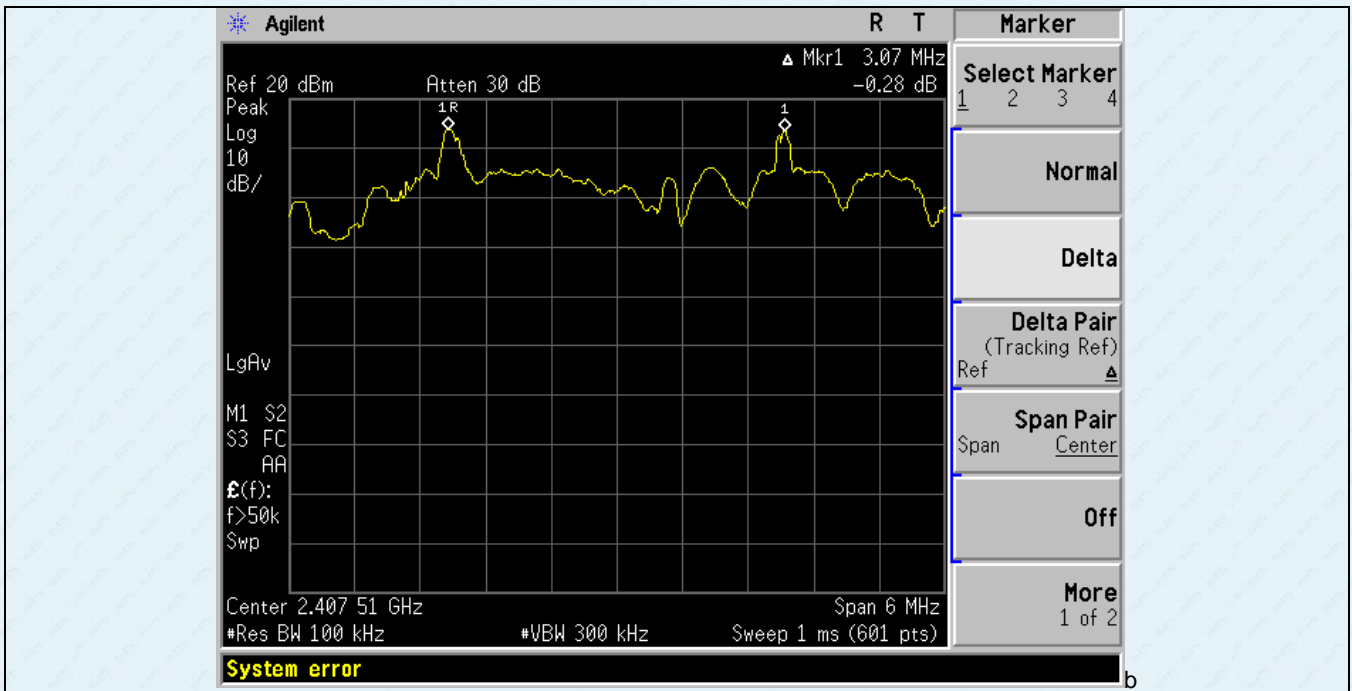
3. Carrier frequency separation

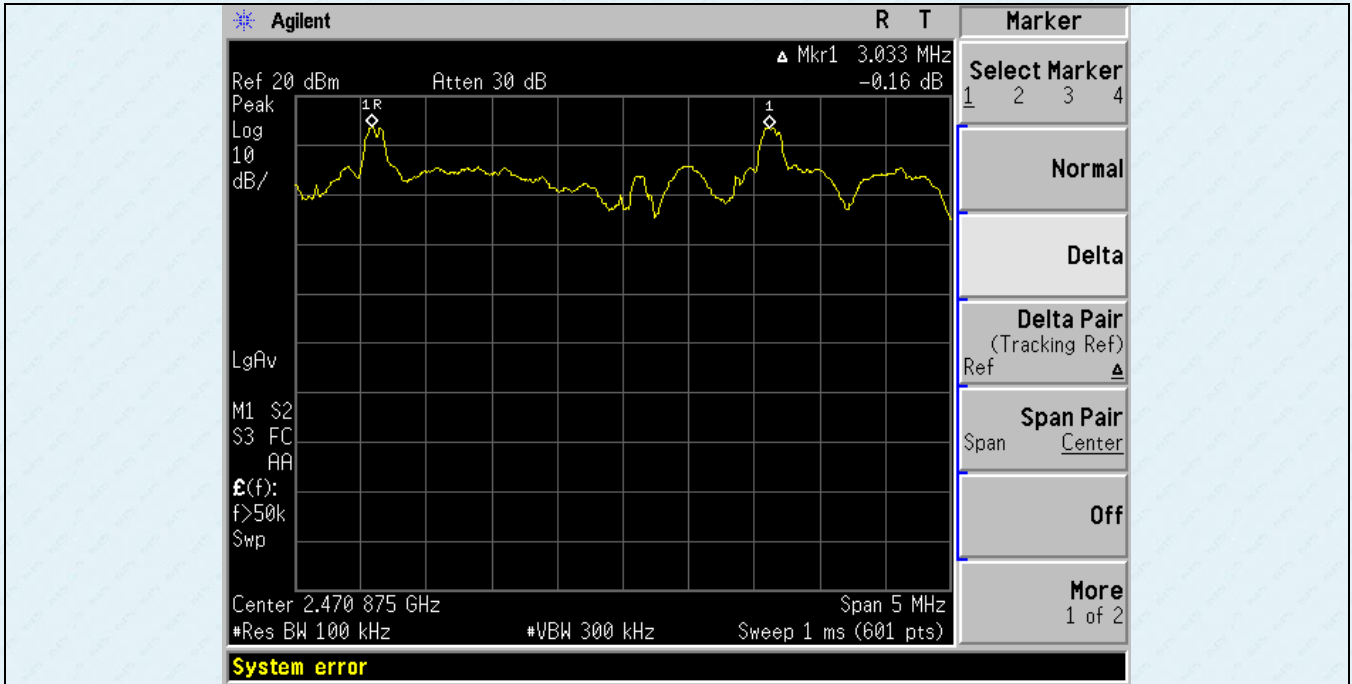
3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
1	Lowest	3070	2928	Pass
	Middle	2992	2969	Pass
	Highest	3033	2887	Pass
2	Lowest	3026	2939	Pass
	Middle	3025	2958	Pass
	Highest	3017	2833	Pass

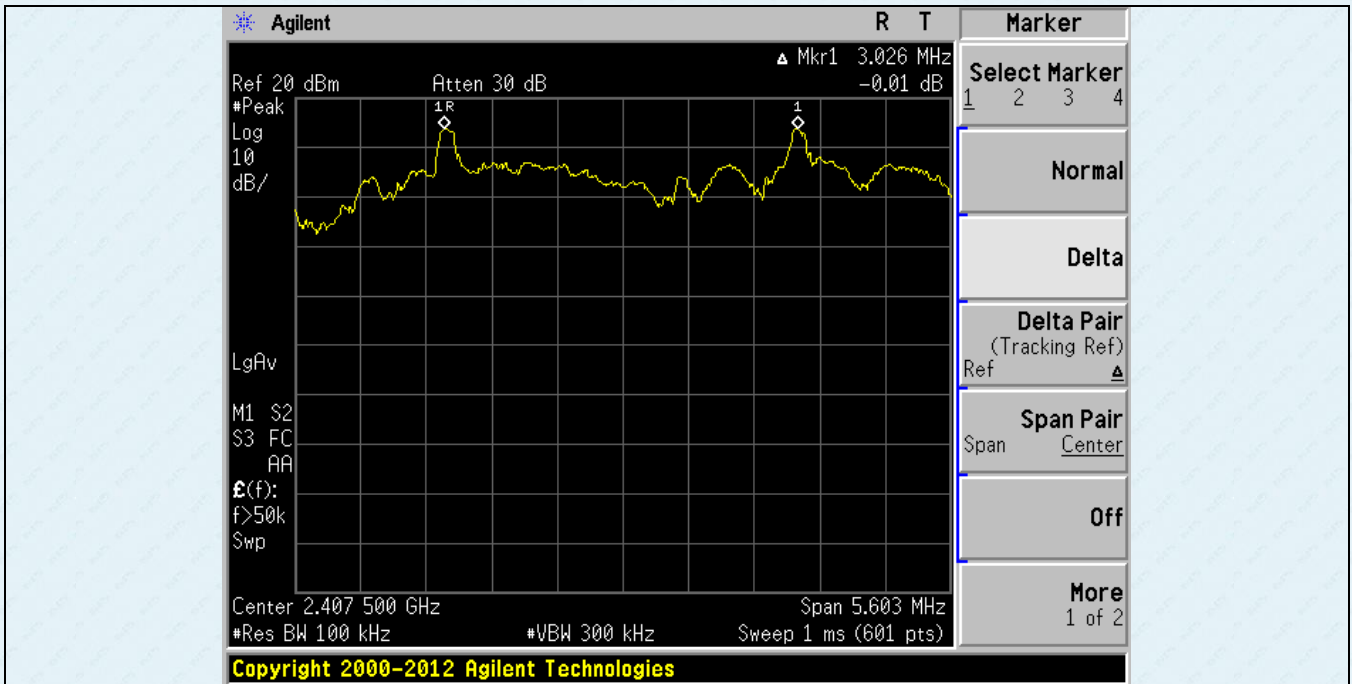
3.2 Test Graph

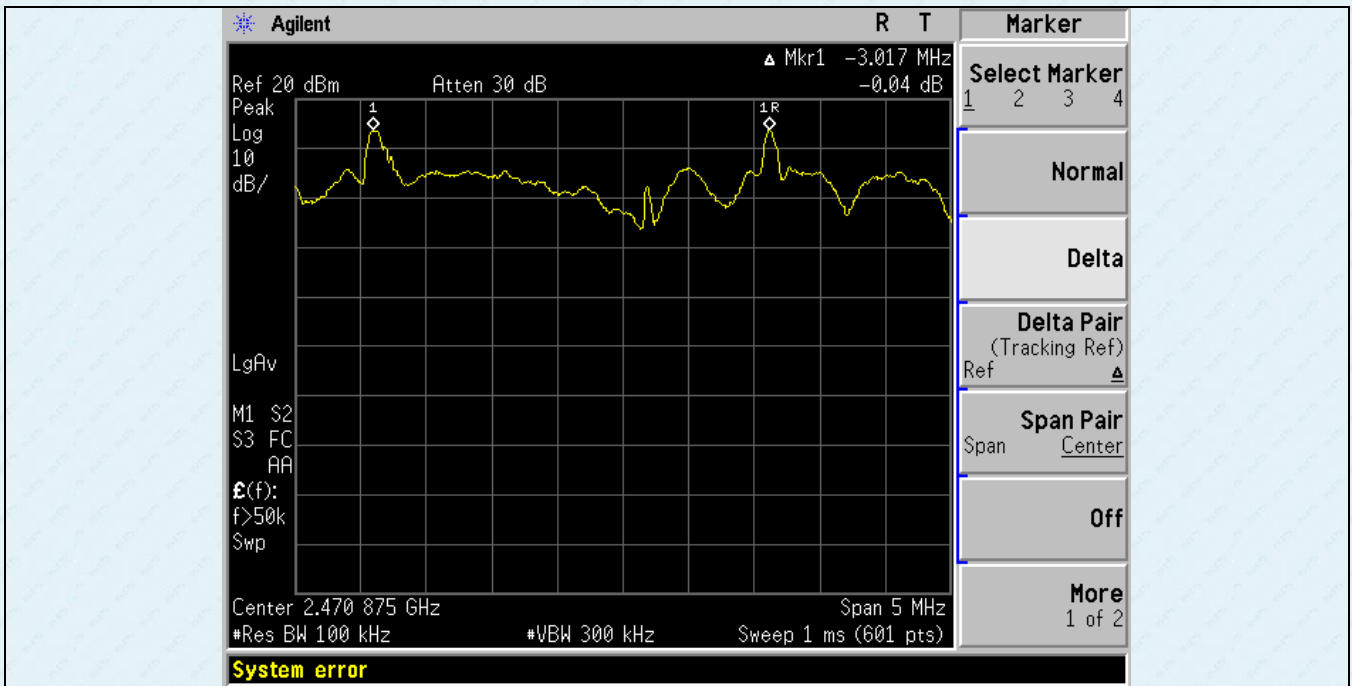
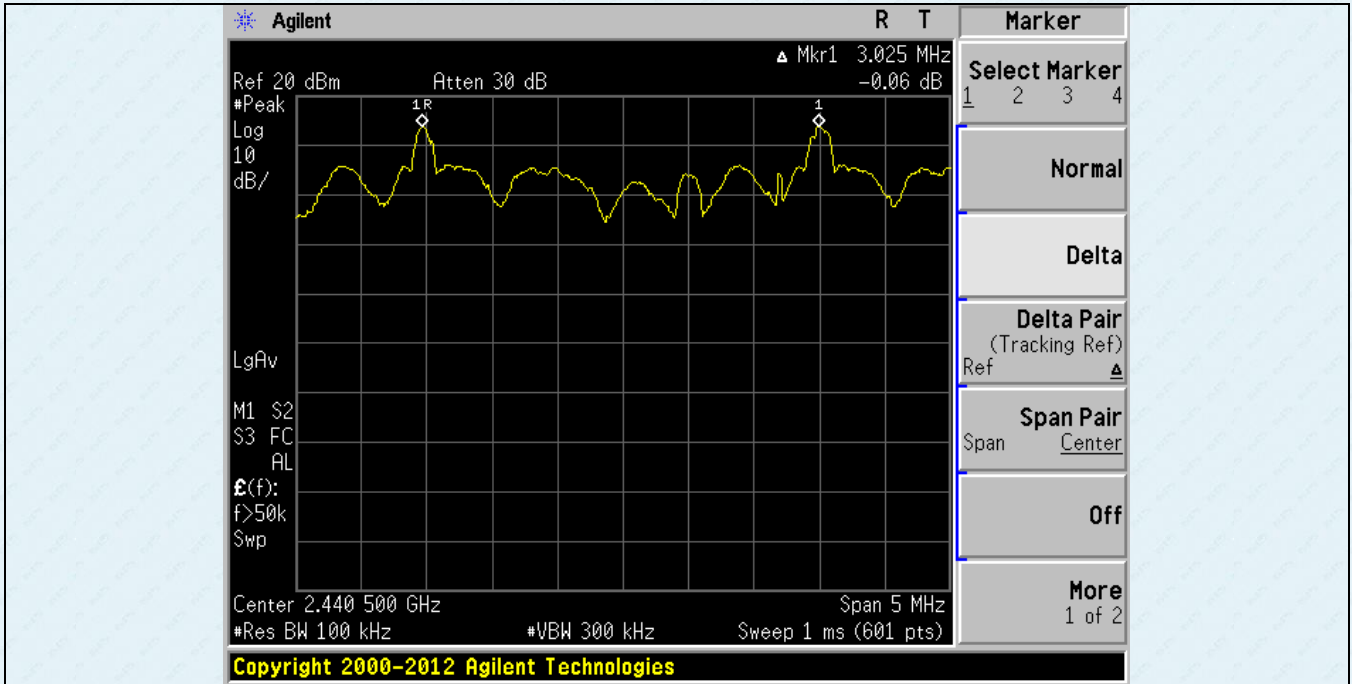
ANT 1:





ANT 2:





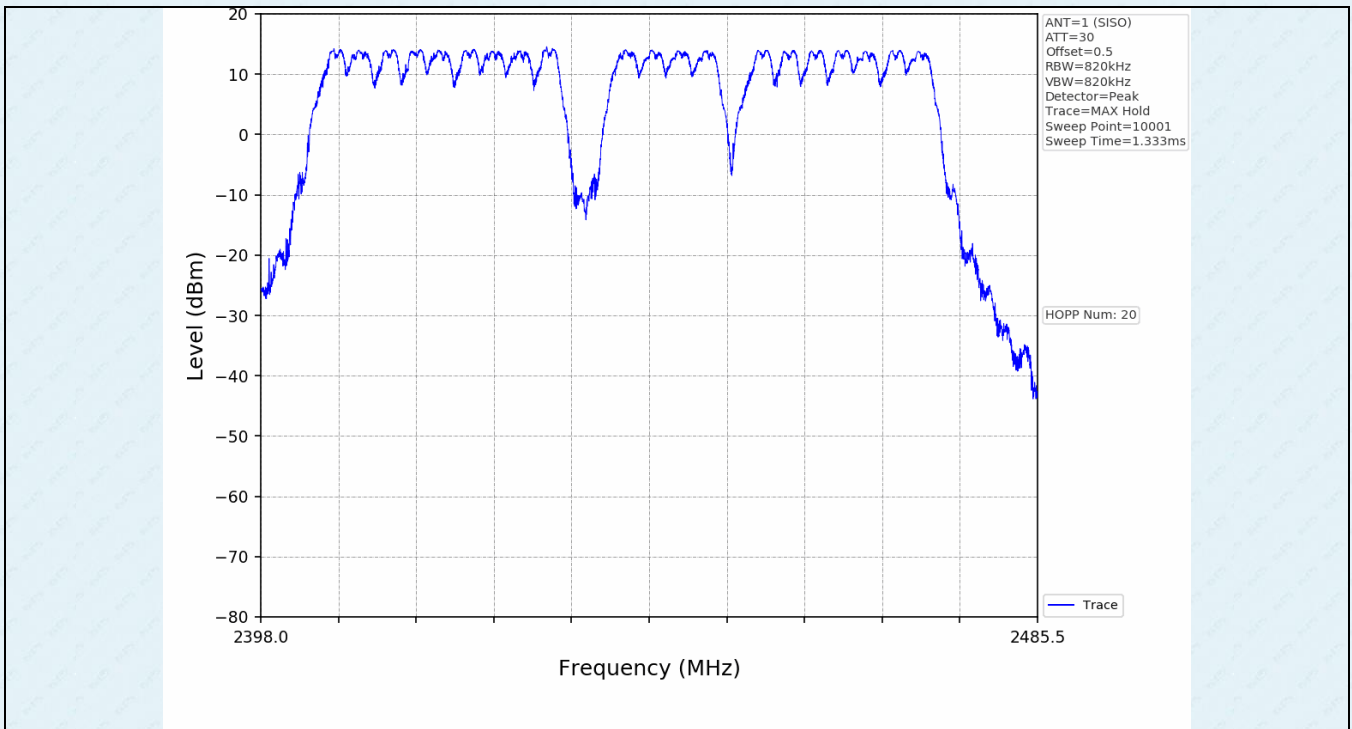
4. Number of hopping frequencies

4.1 Test Result

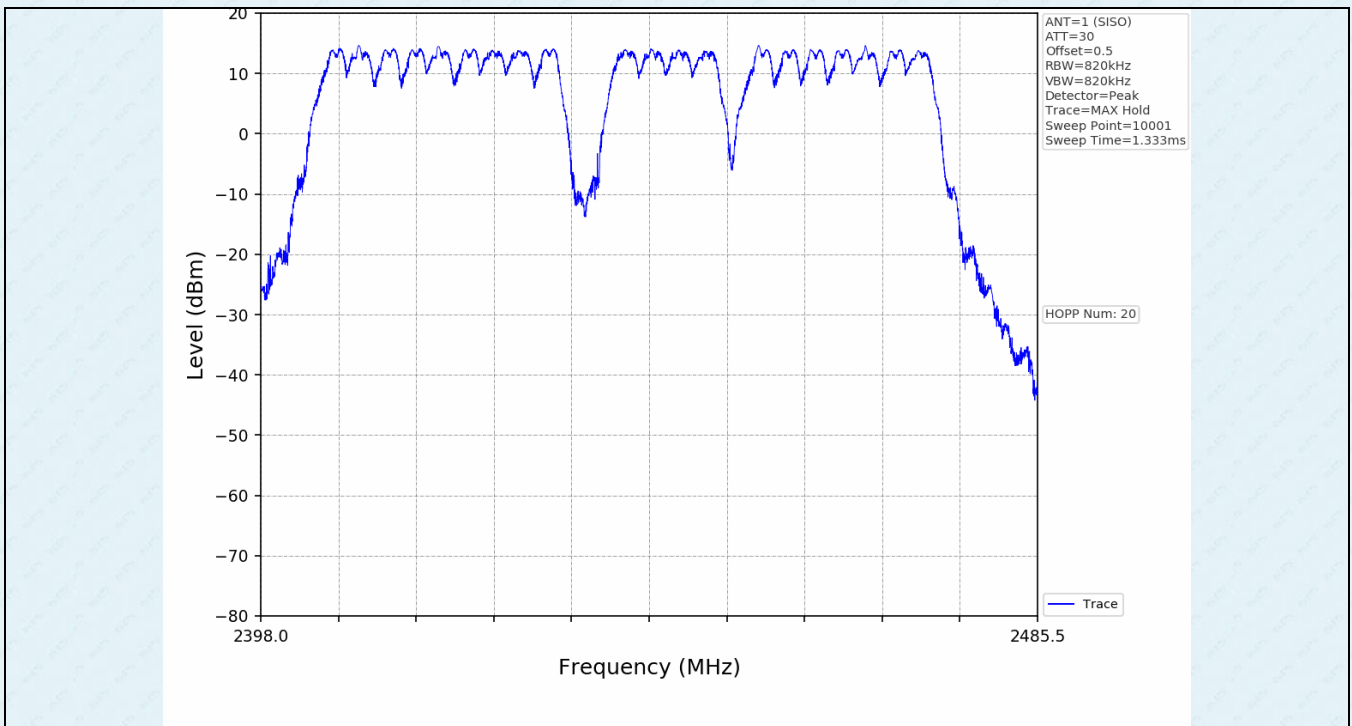
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
FHSS	SISO	1	20	≥15	PASS
	SISO	2	20	≥15	PASS

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	3.1000	49.6000	400	Pass
	Middle	3.0330	48.5280	400	Pass
	Highest	3.0670	49.0720	400	Pass
2	Lowest	3.0670	49.0720	400	Pass
	Middle	3.0000	48.0000	400	Pass
	Highest	3.0670	49.0720	400	Pass

The formula as below:

ANT 1:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.1000ms*2*0.4*20=49.6000ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.0330ms*2*0.4*20=48.5280ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.0670ms*2*0.4*20=49.0720ms

ANT 2:

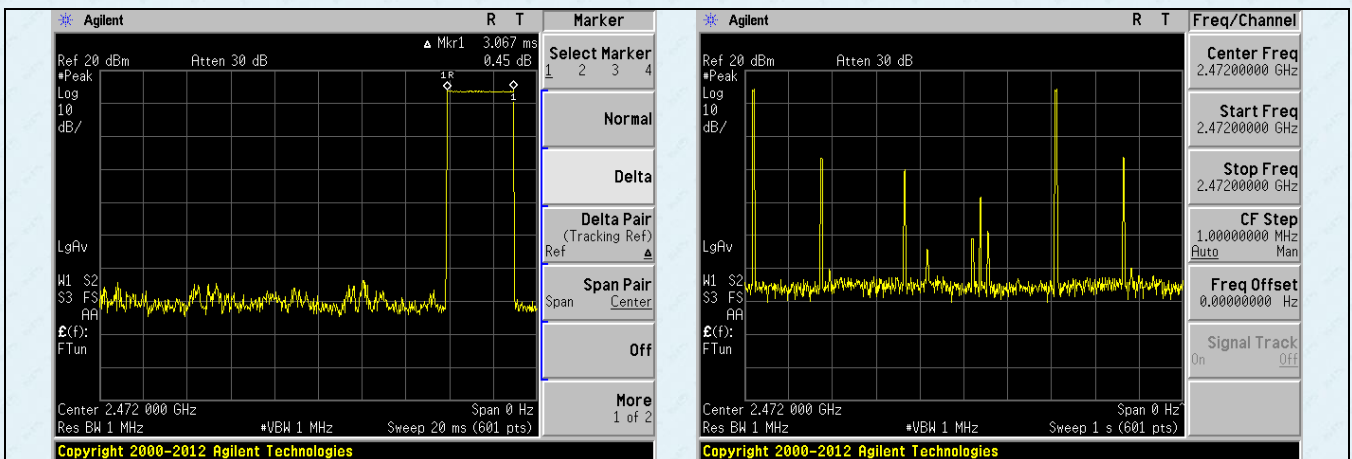
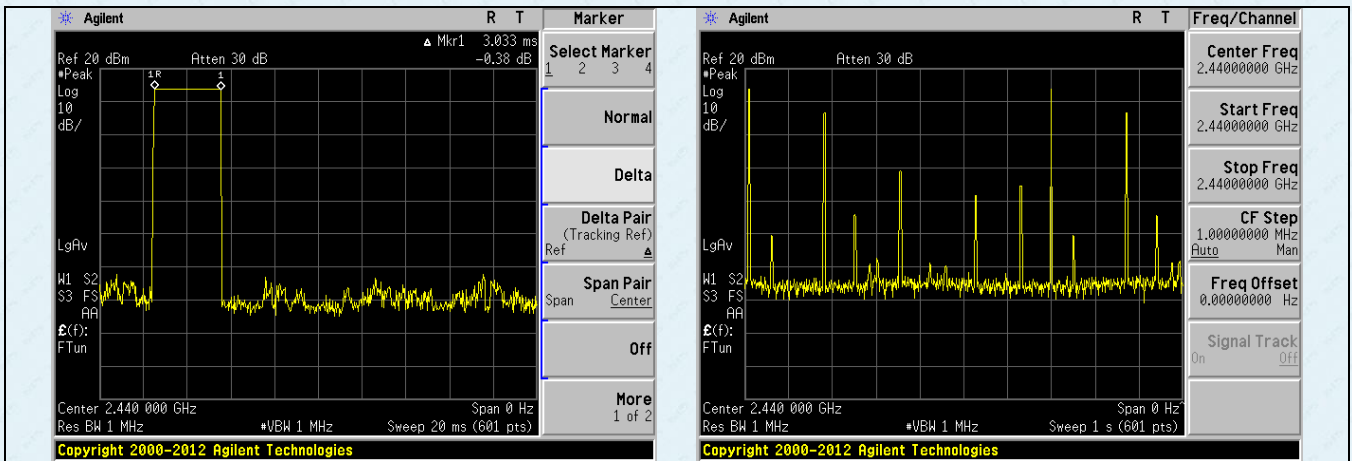
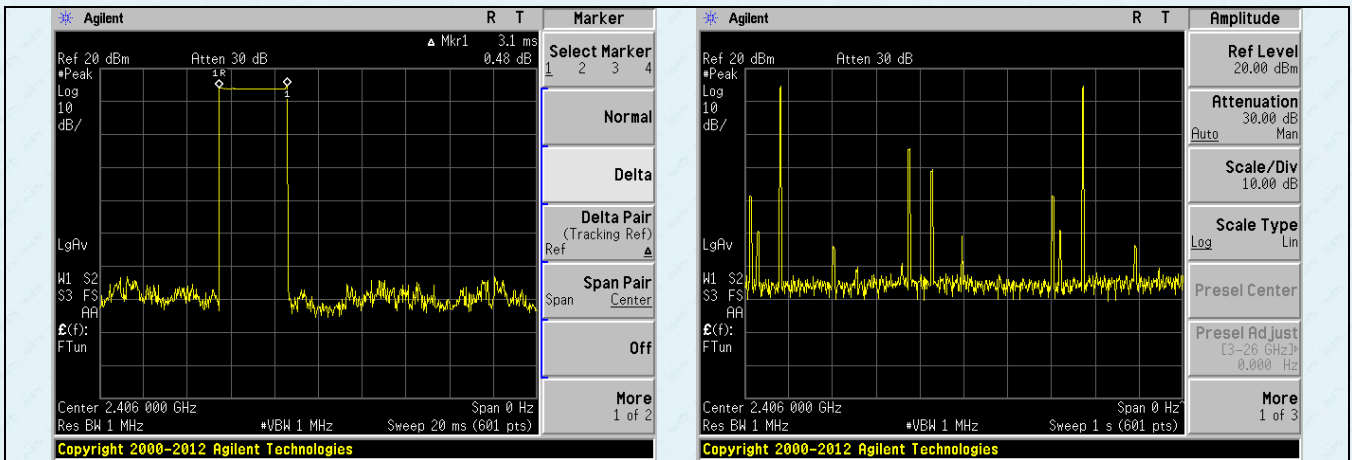
Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.0670ms*2*0.4*20=49.0720ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.0000ms*2*0.4*20=48.0000ms

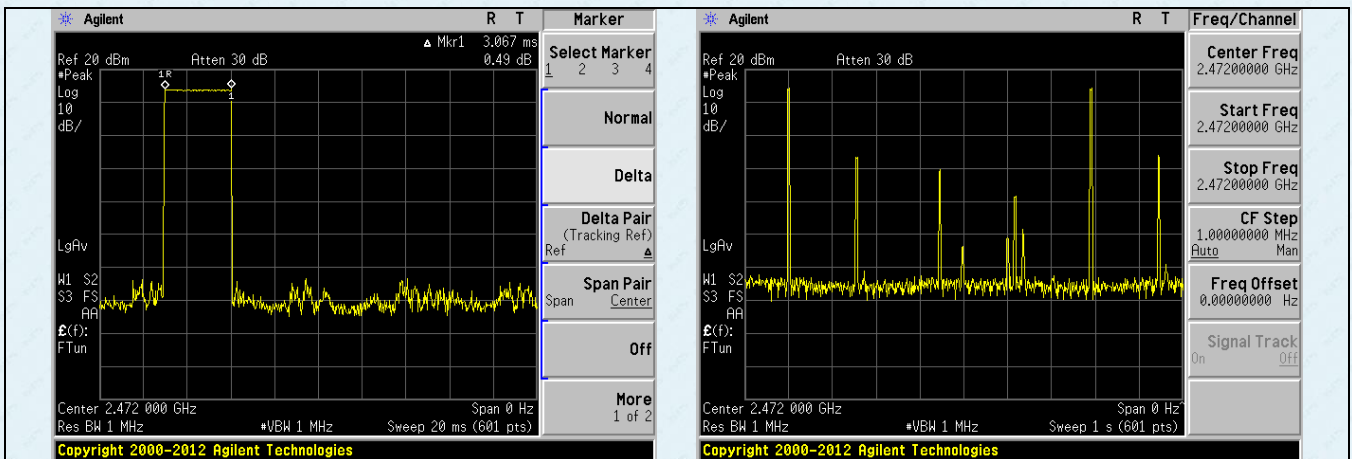
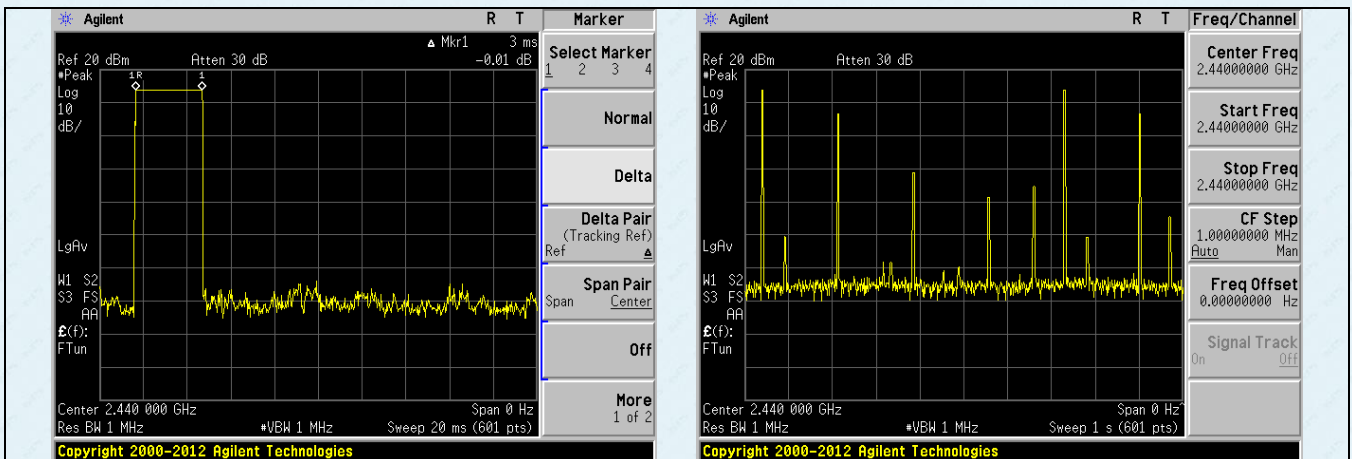
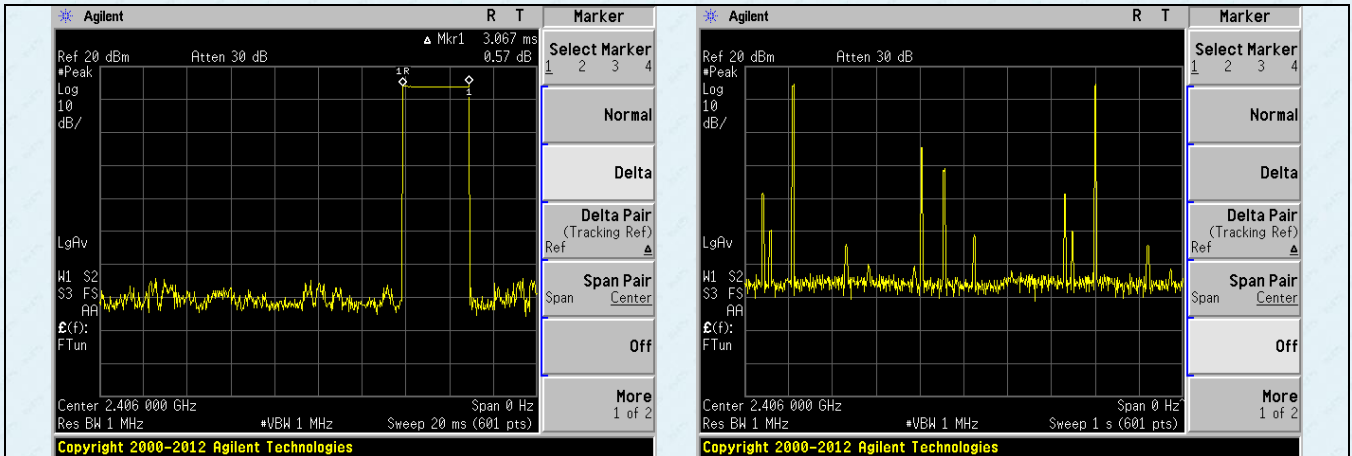
Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.0670ms*2*0.4*20=49.0720ms

5.2 Test Graph

ANT 1:



ANT 2:



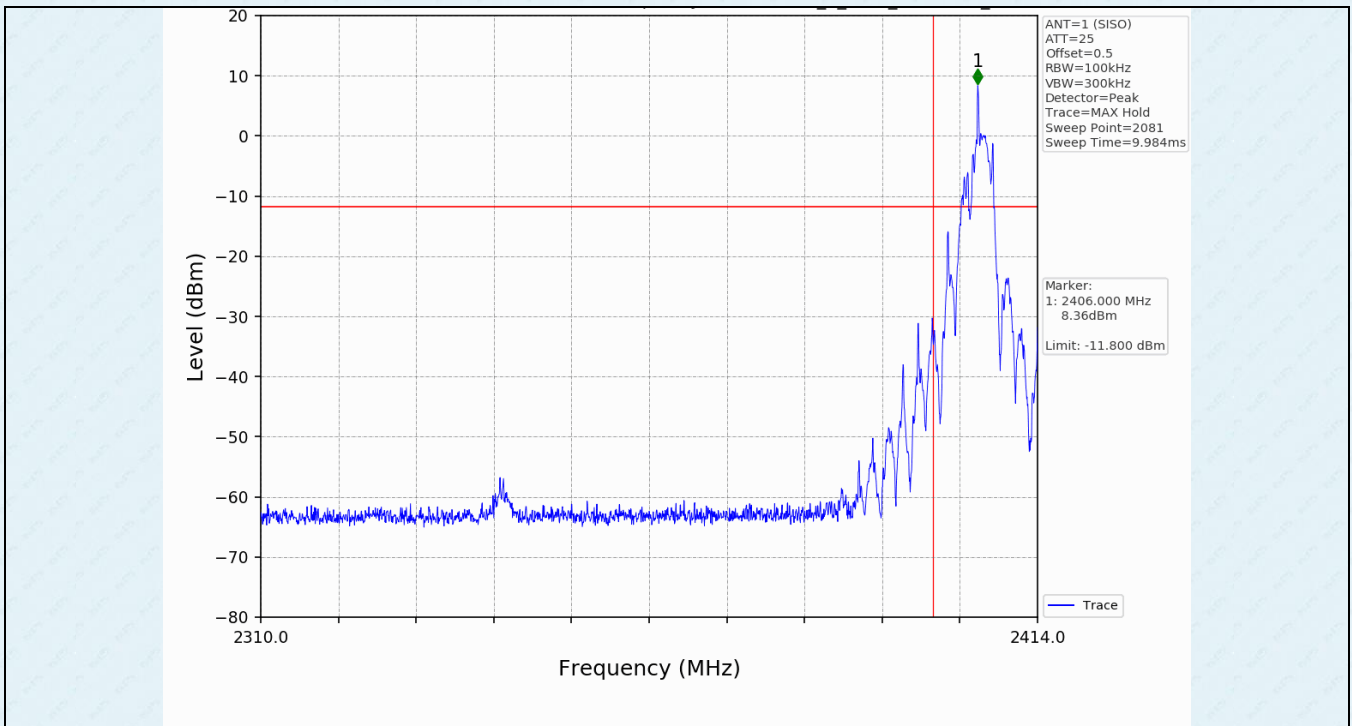
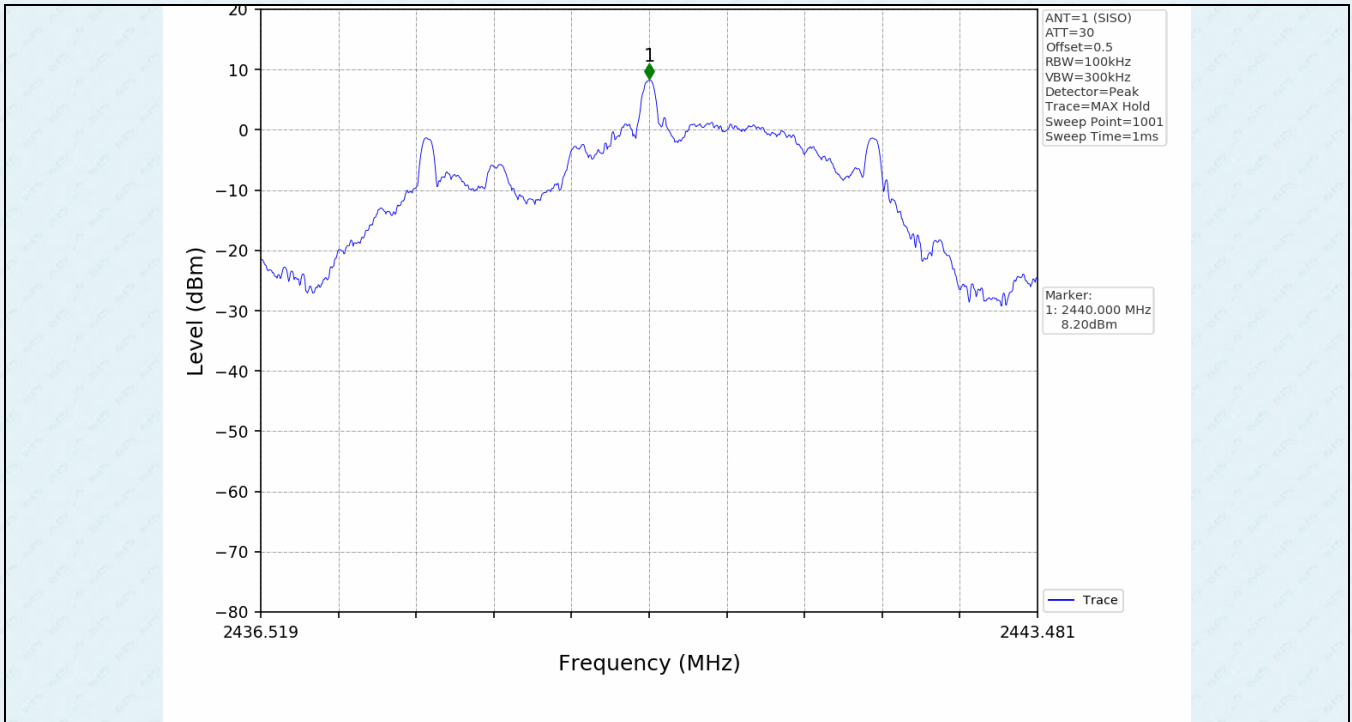
6. Unwanted Emissions in Non-restricted Frequency Bands

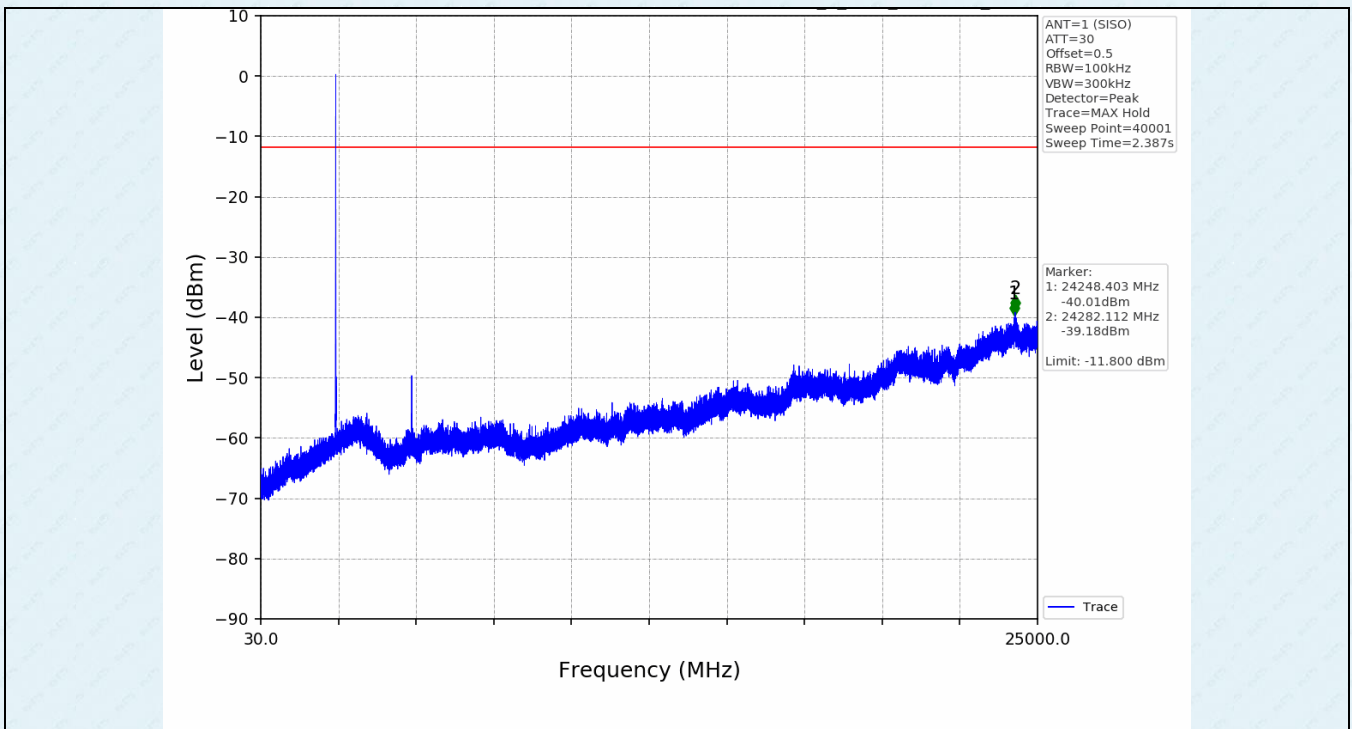
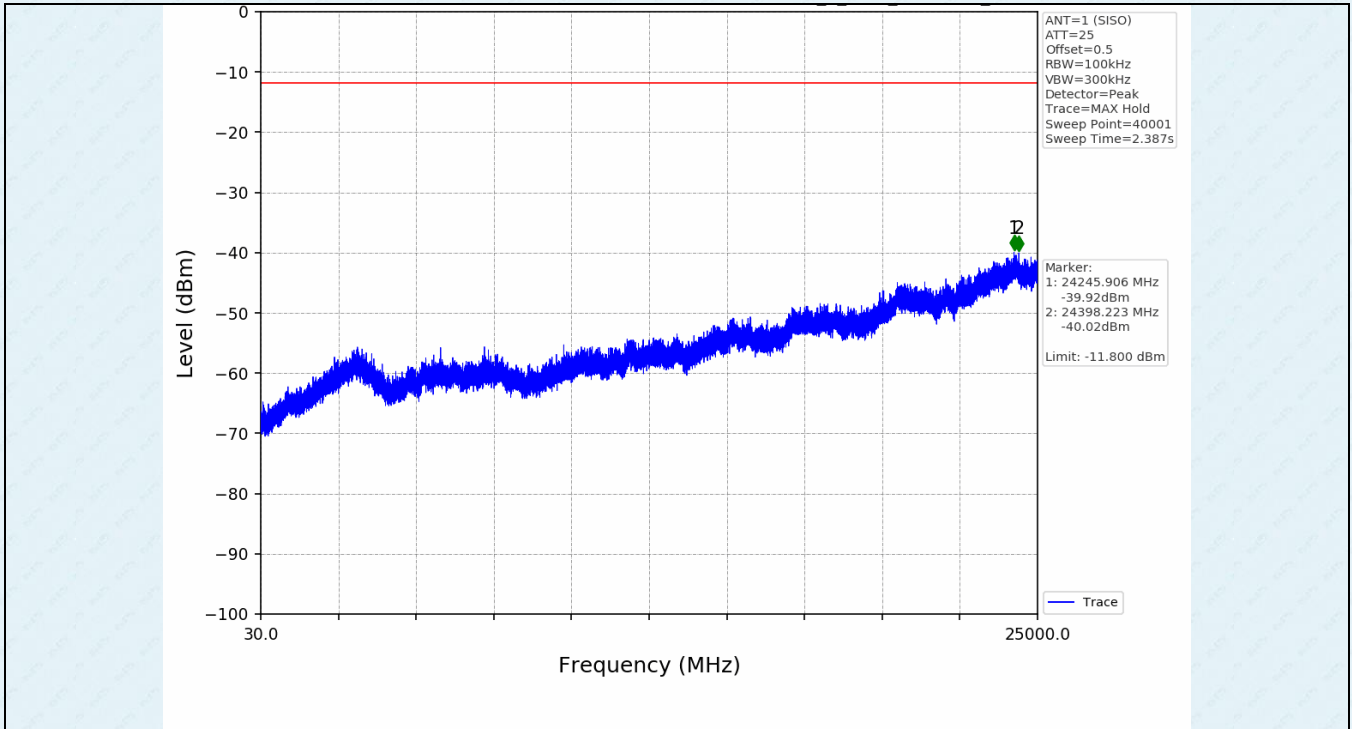
6.1 Test Result

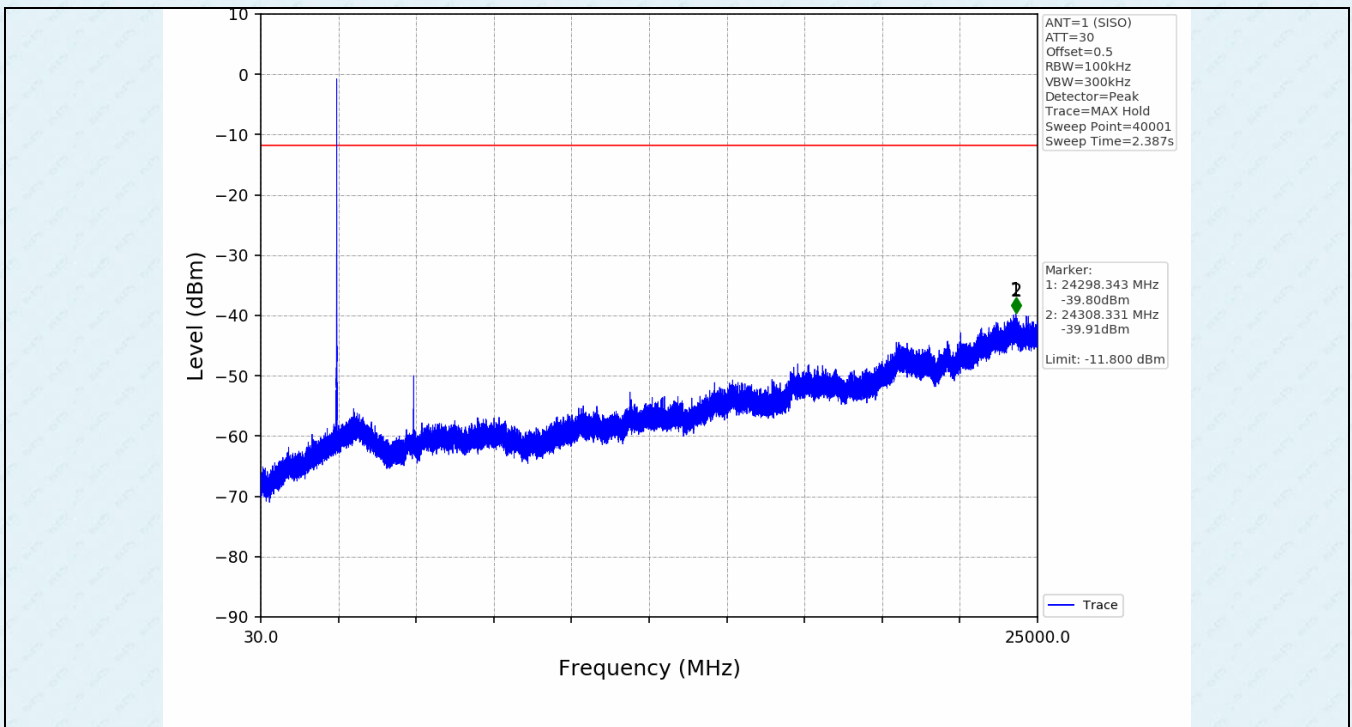
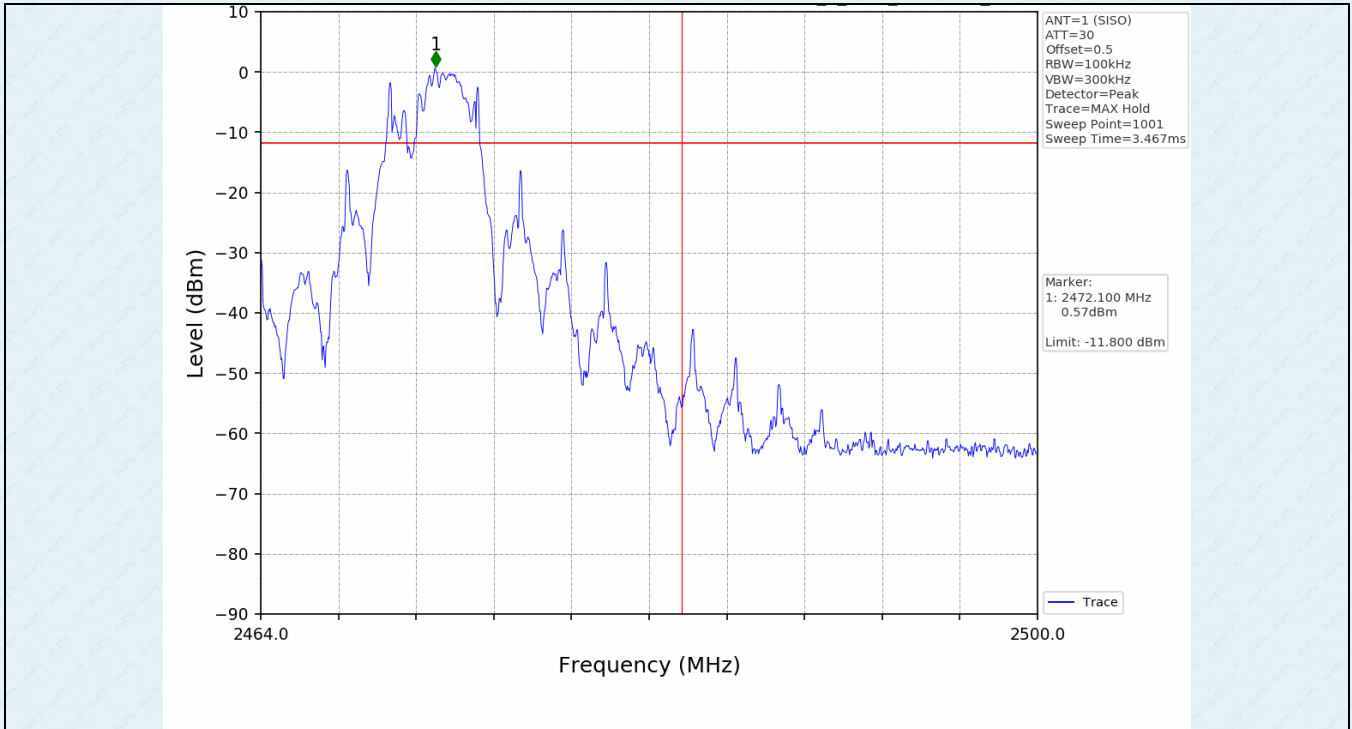
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
FHSS	2406	SISO	1	Refer to test graph	-11.80	PASS
	2440	SISO	1	Refer to test graph	-11.80	PASS
	2472	SISO	1	Refer to test graph	-11.80	PASS
	Hopping	SISO	1	Refer to test graph	-11.80	PASS
	2406	SISO	2	Refer to test graph	-11.76	PASS
	2440	SISO	2	Refer to test graph	-11.76	PASS
	2472	SISO	2	Refer to test graph	-11.76	PASS
	Hopping	SISO	2	Refer to test graph	-11.76	PASS

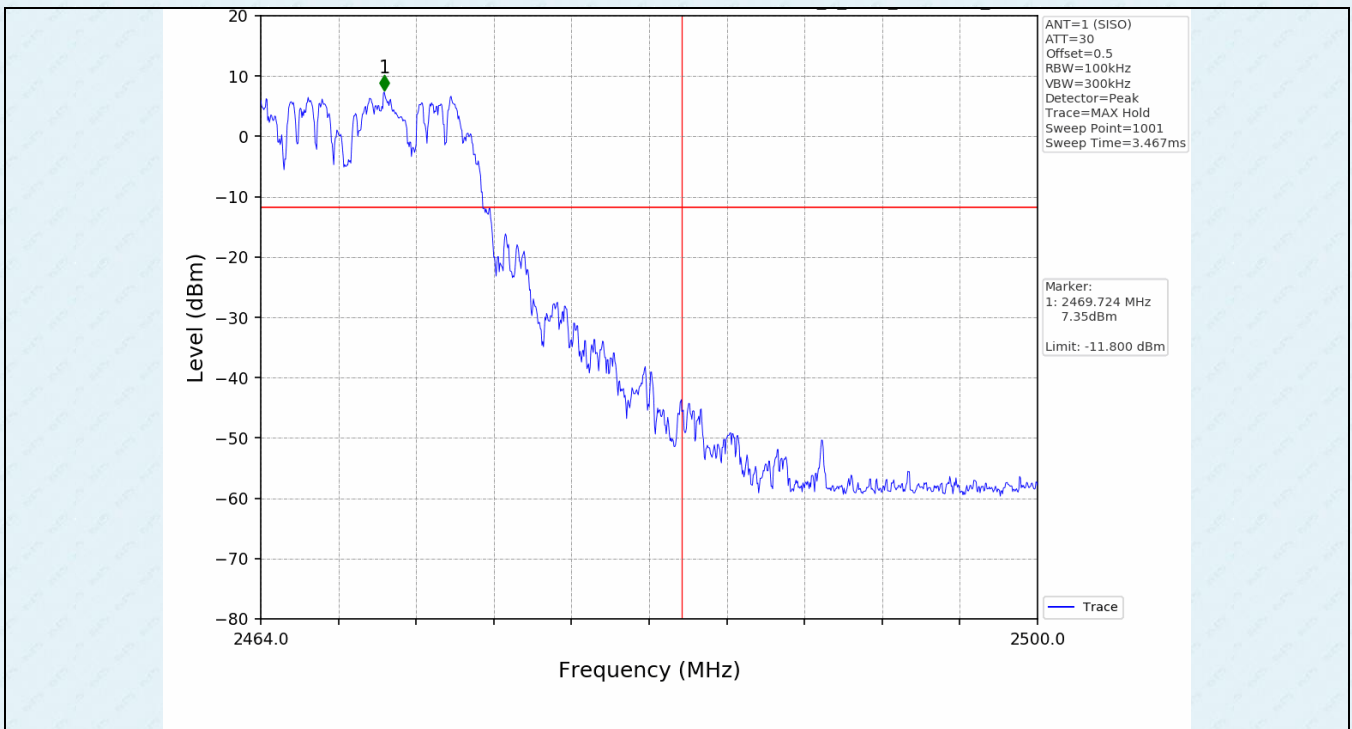
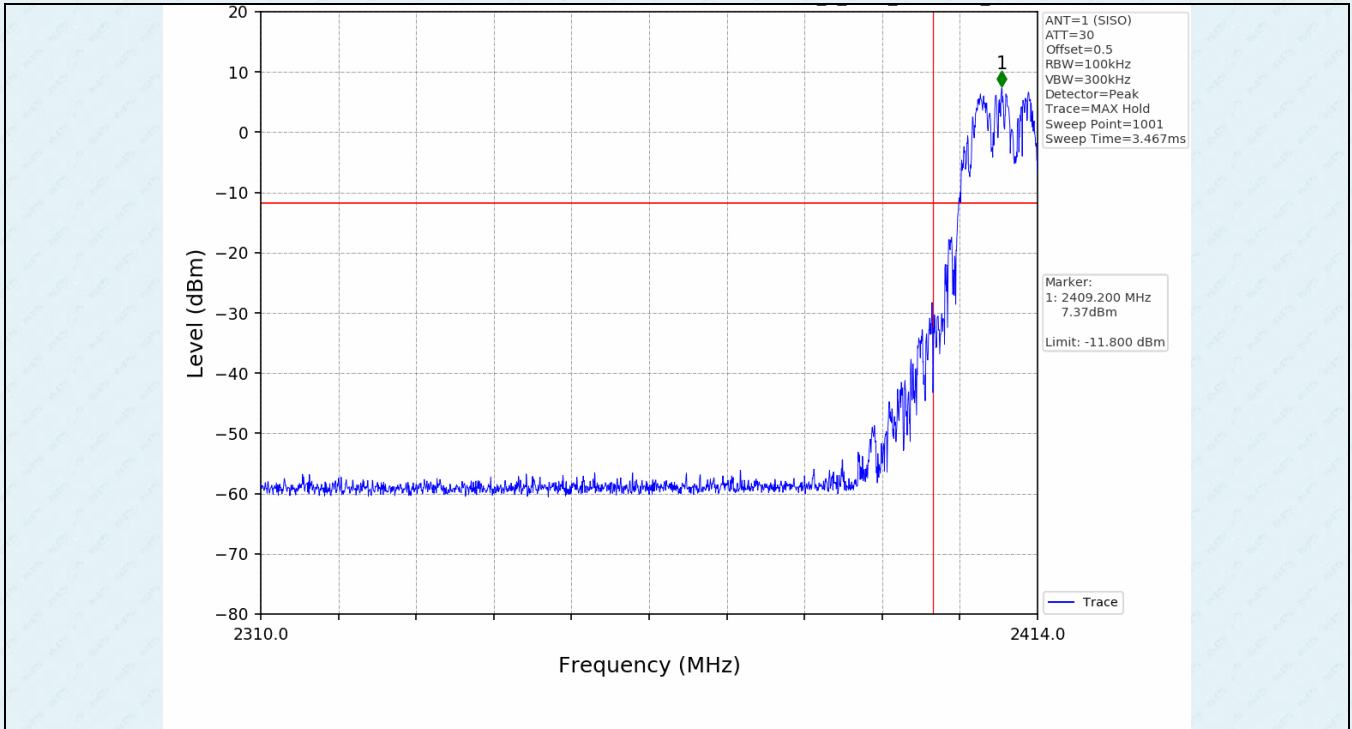
6.2 Test Graph

ANT 1:

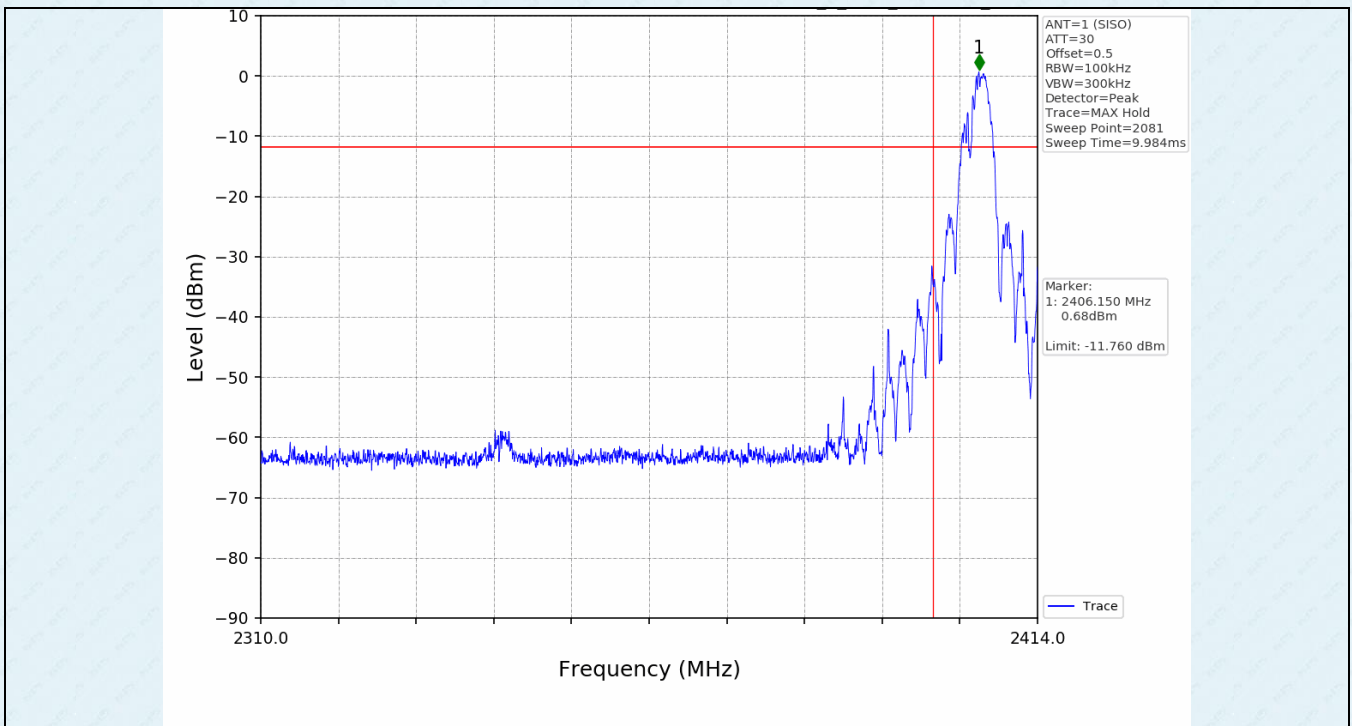
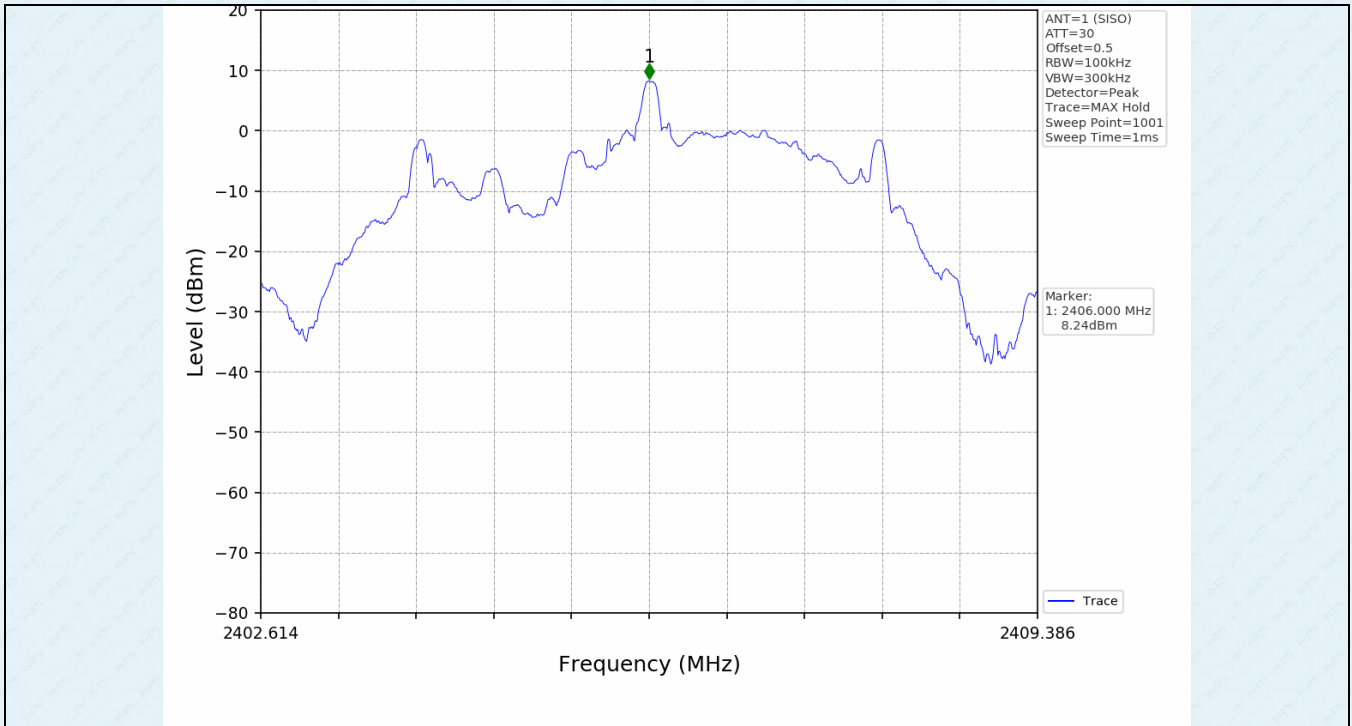


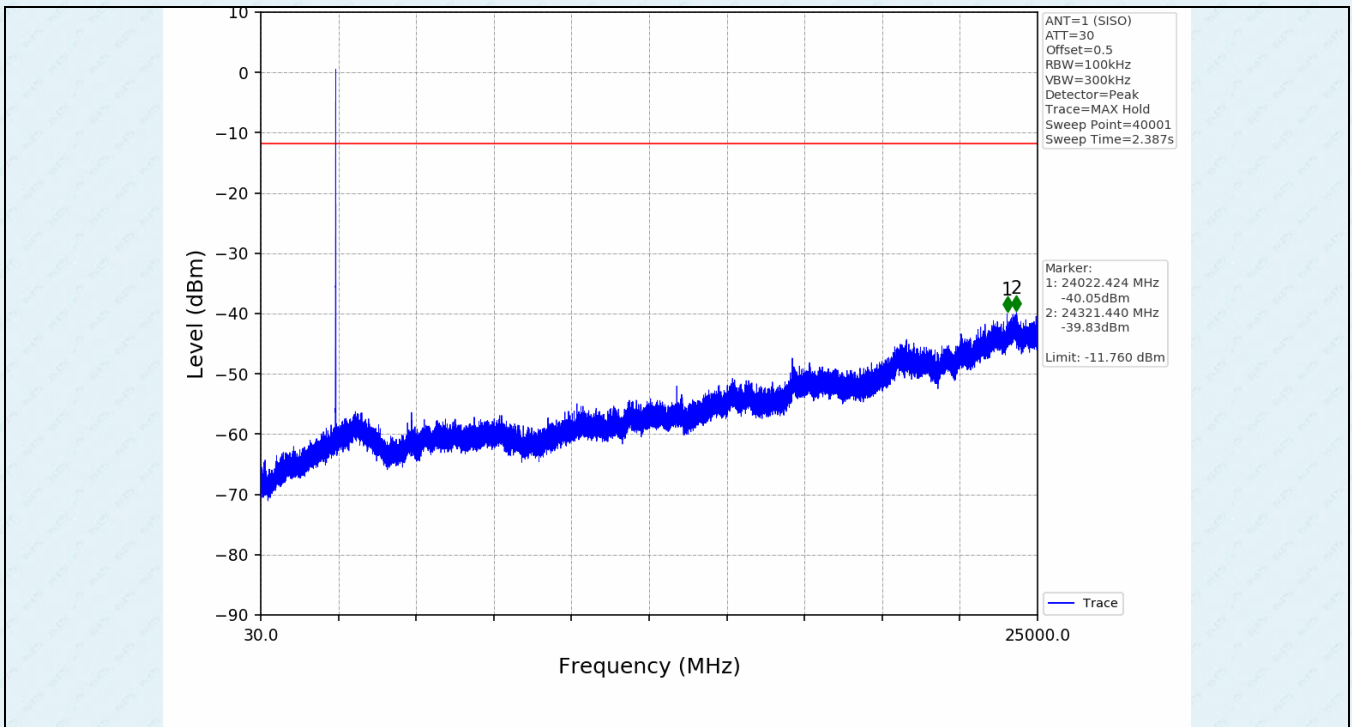
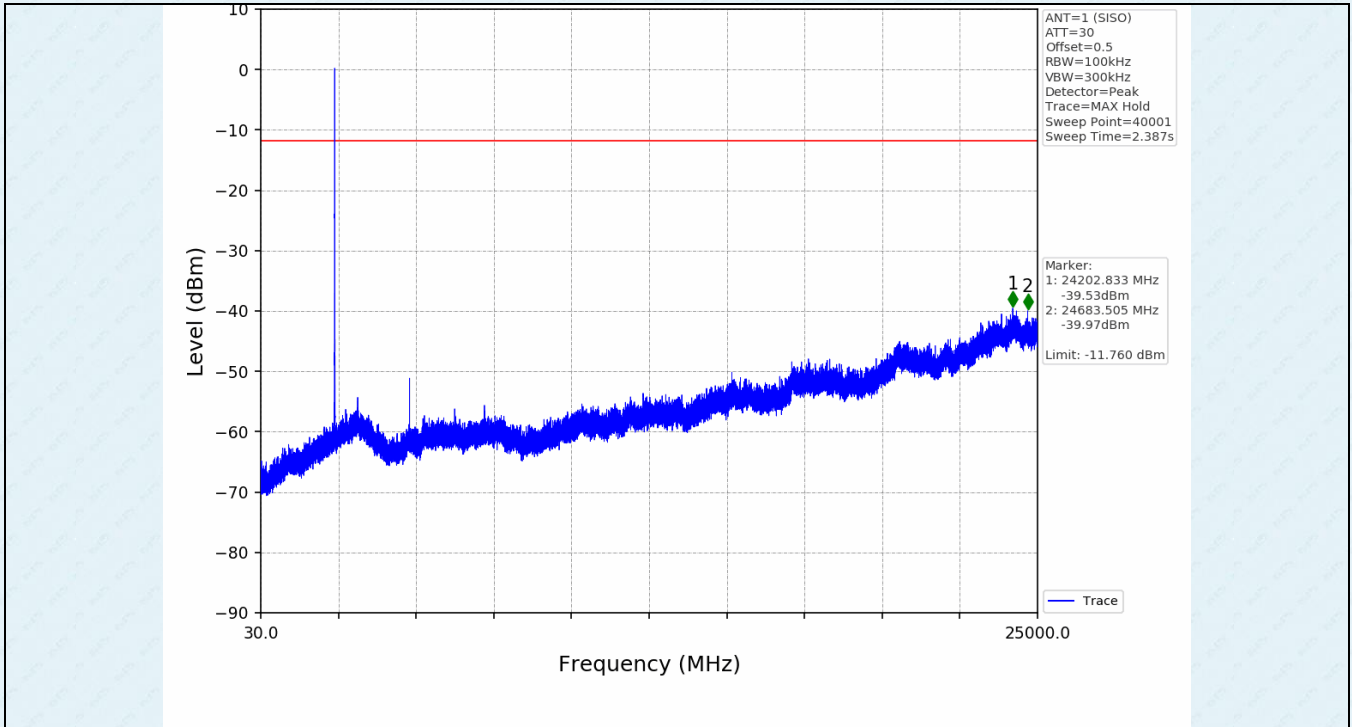


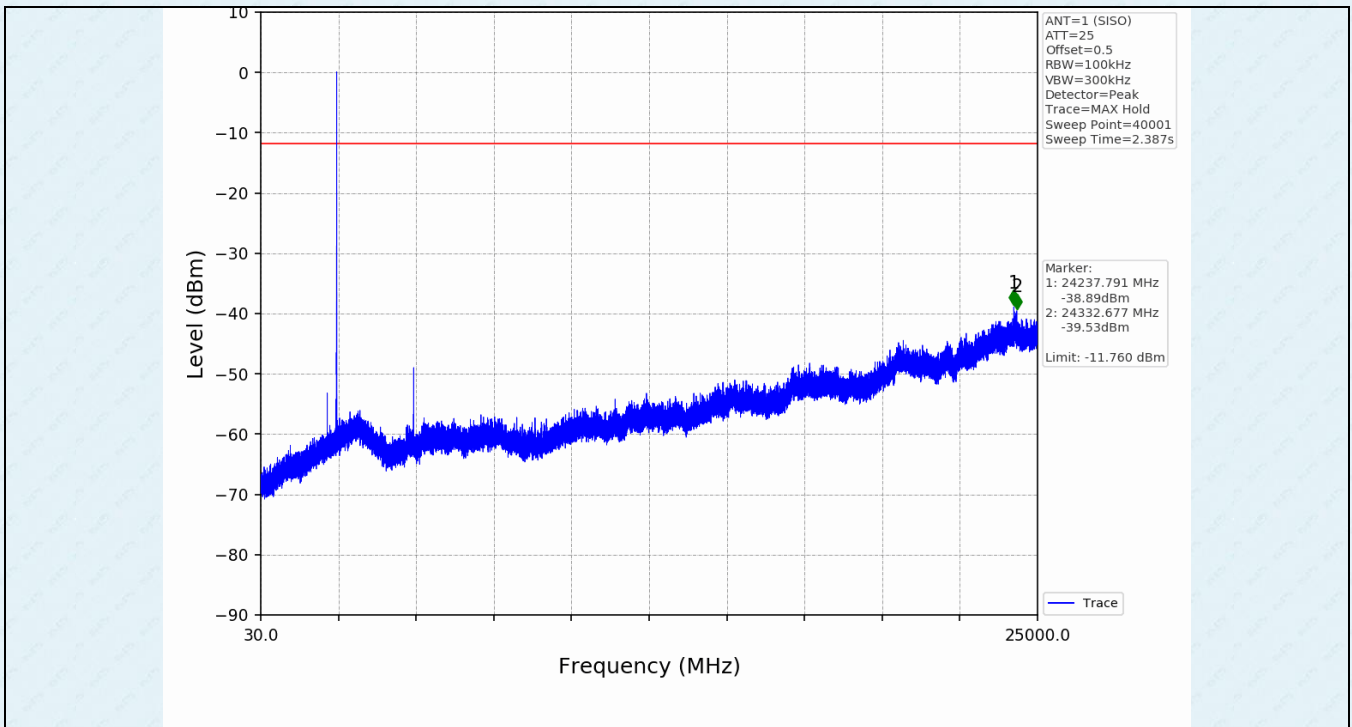
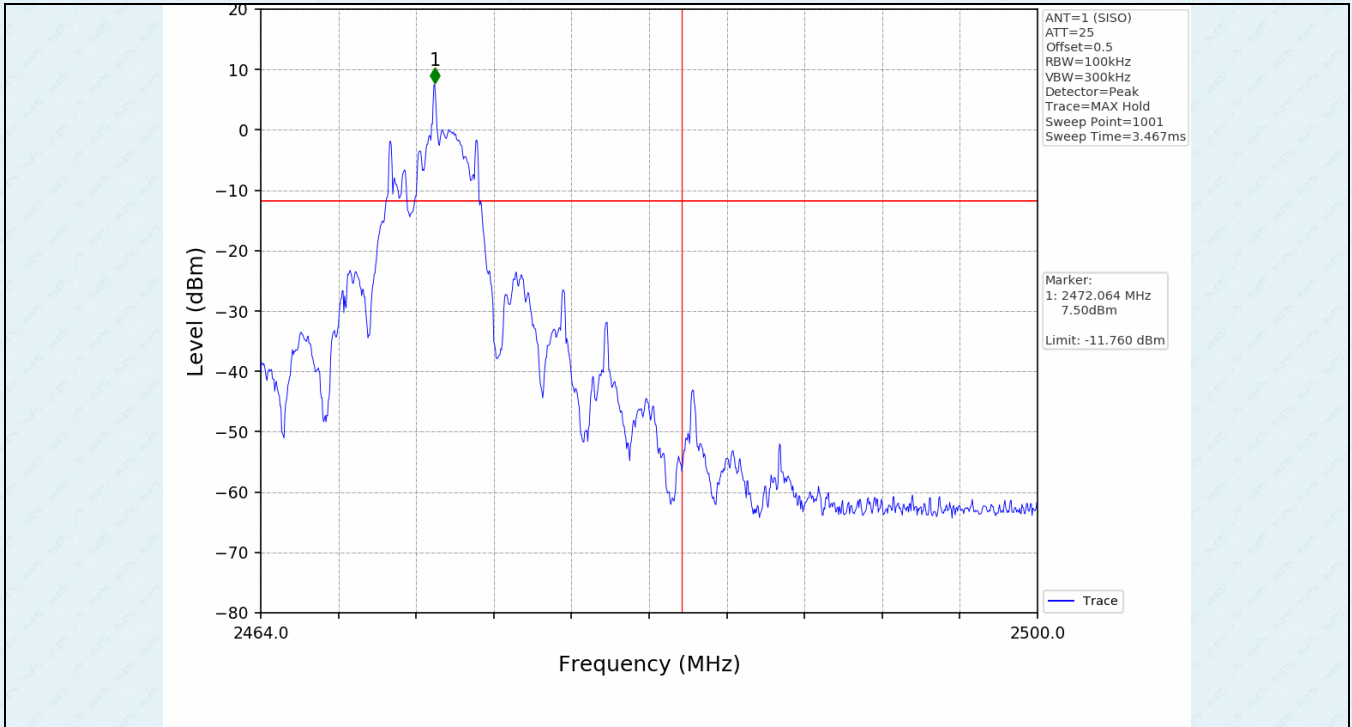


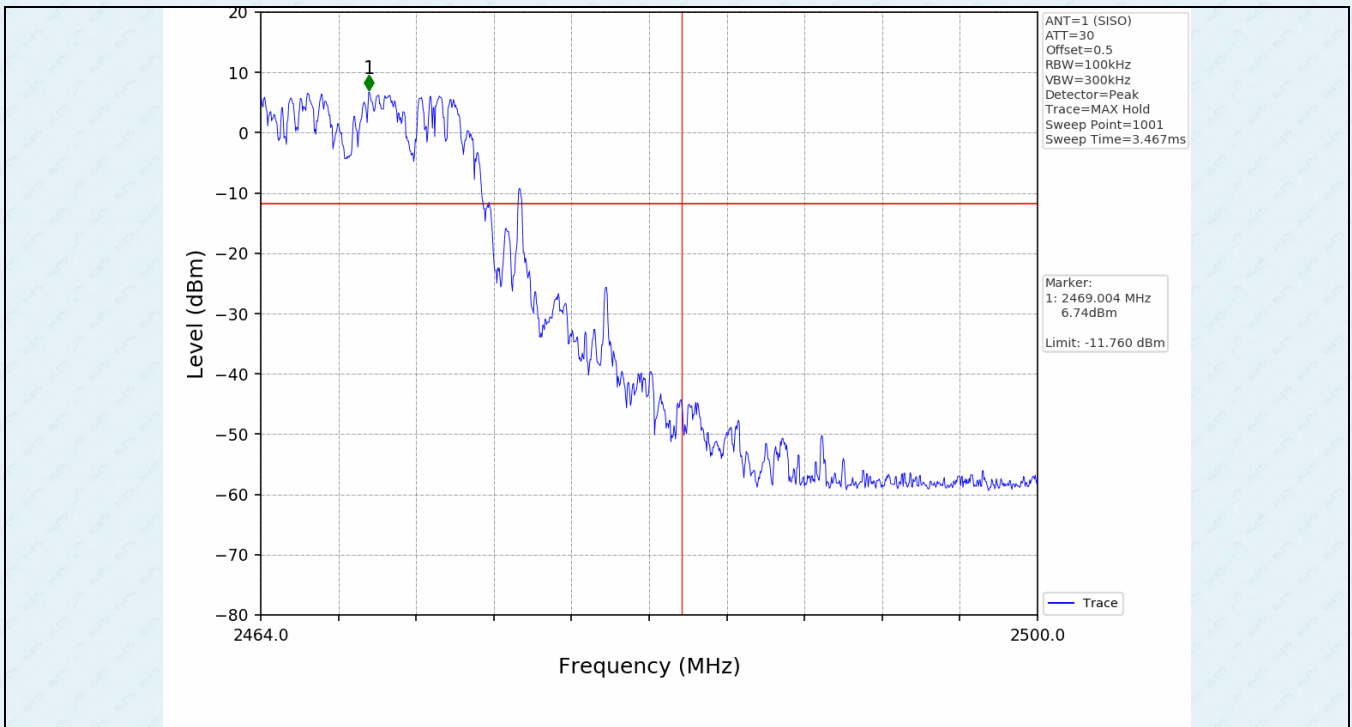
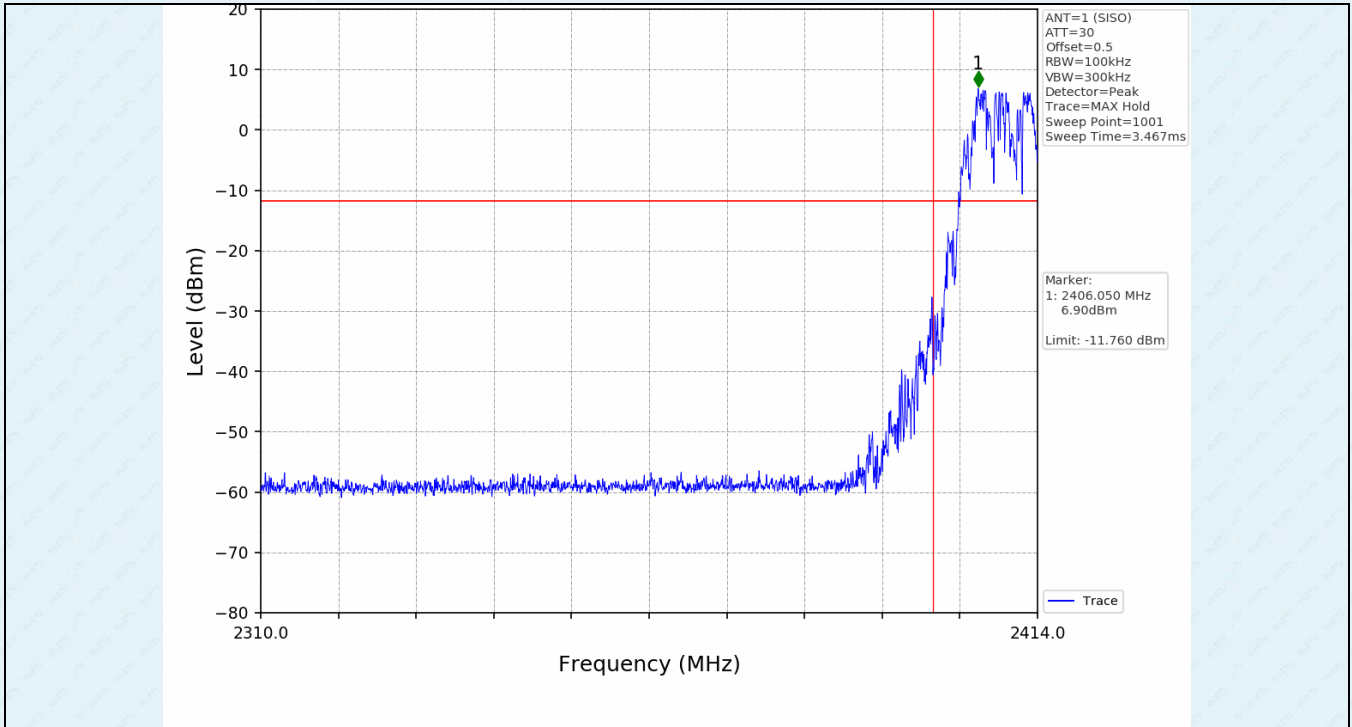


ANT 2:









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