

Appendix for 15.247

1. Bandwidth

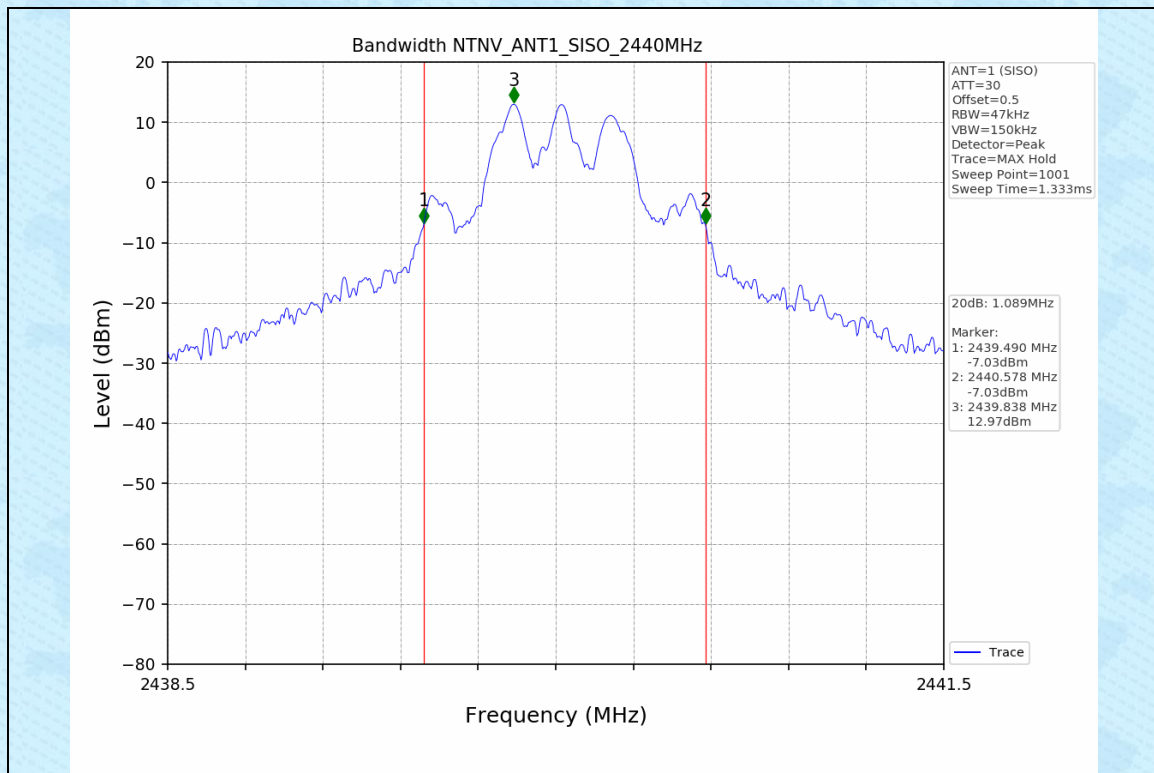
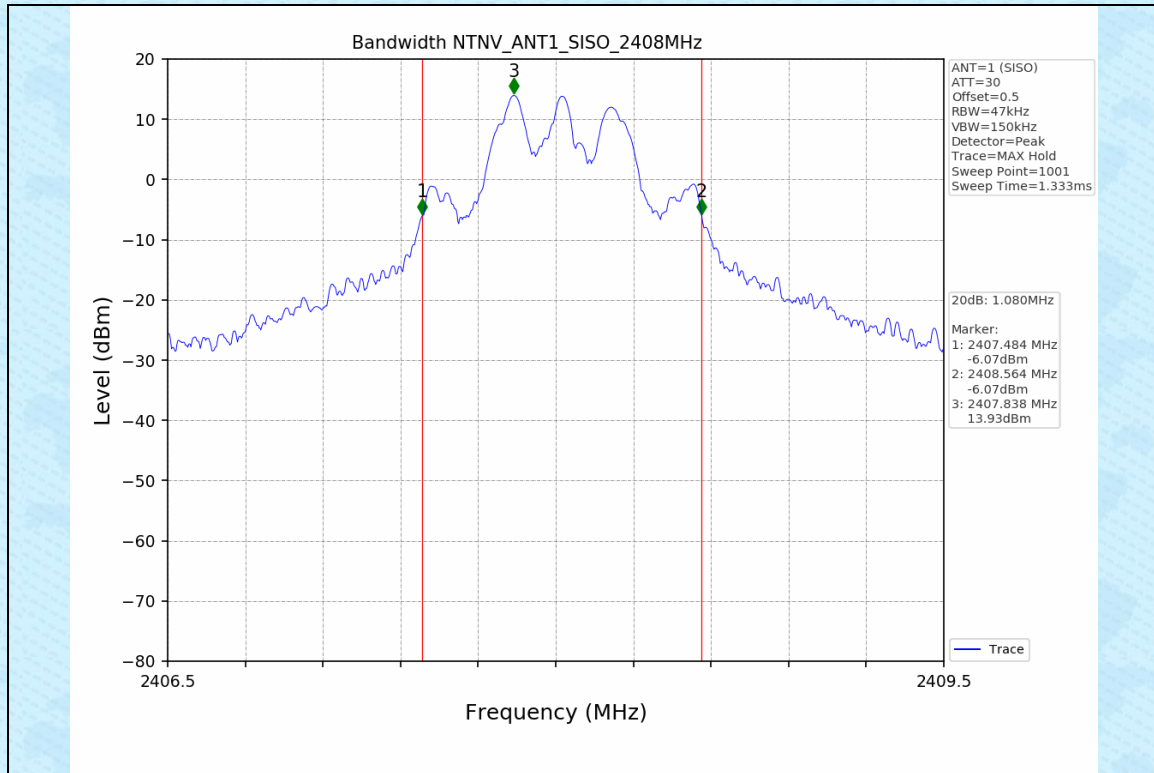
1.1 Test Result

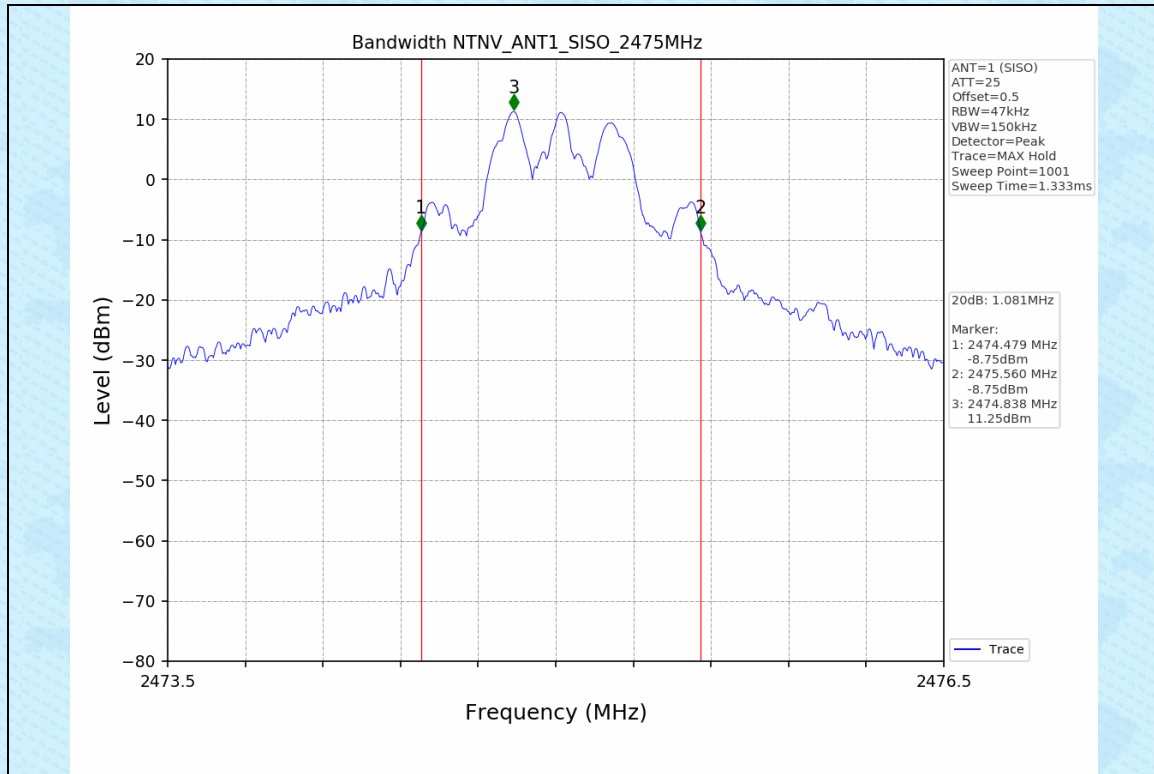
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
Transmitting	2408	SISO	ANT1	1.080	PASS
	2440	SISO	ANT1	1.089	PASS
	2475	SISO	ANT1	1.081	PASS
Transmitting	2408	SISO	ANT2	1.077	PASS
	2440	SISO	ANT2	1.084	PASS
	2475	SISO	ANT2	1.080	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
Transmitting	2408	SISO	ANT1	1.028	Only for Report Use
	2440	SISO	ANT1	1.039	Only for Report Use
	2475	SISO	ANT1	1.037	Only for Report Use
Transmitting	2408	SISO	ANT2	1.028	Only for Report Use
	2440	SISO	ANT2	1.036	Only for Report Use
	2475	SISO	ANT2	1.040	Only for Report Use

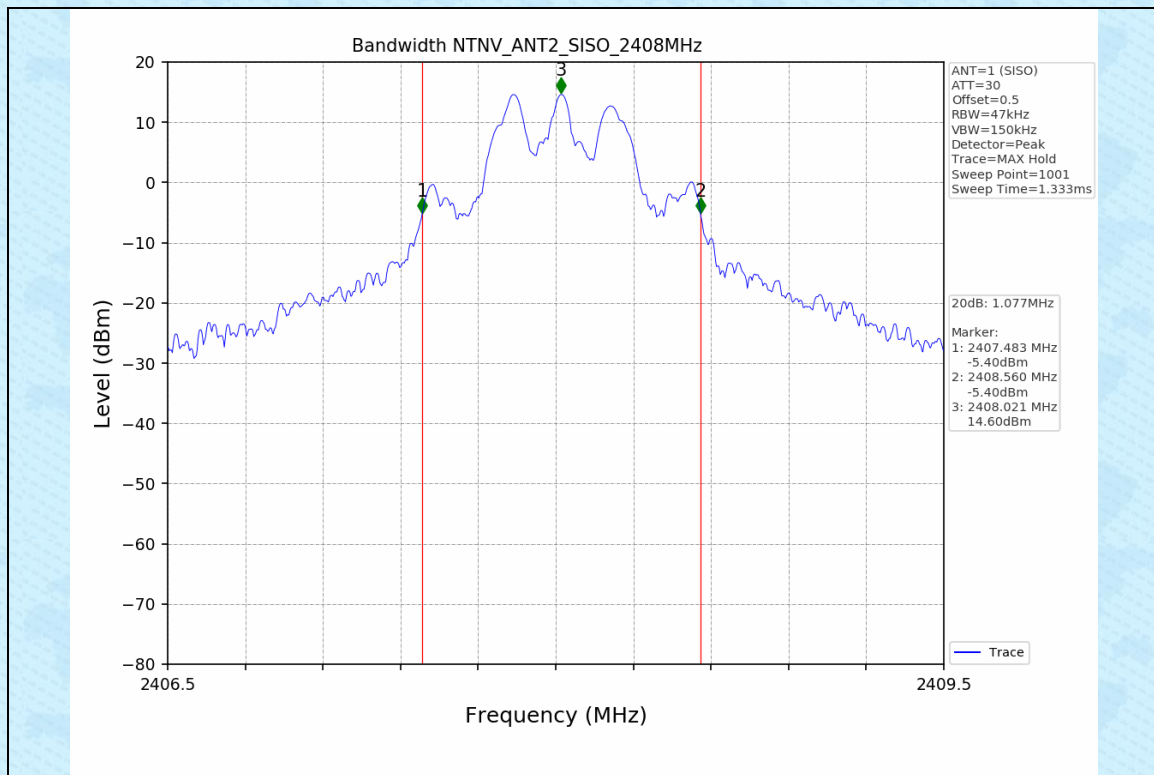
1.2 Test Graph - 20dB Bandwidth

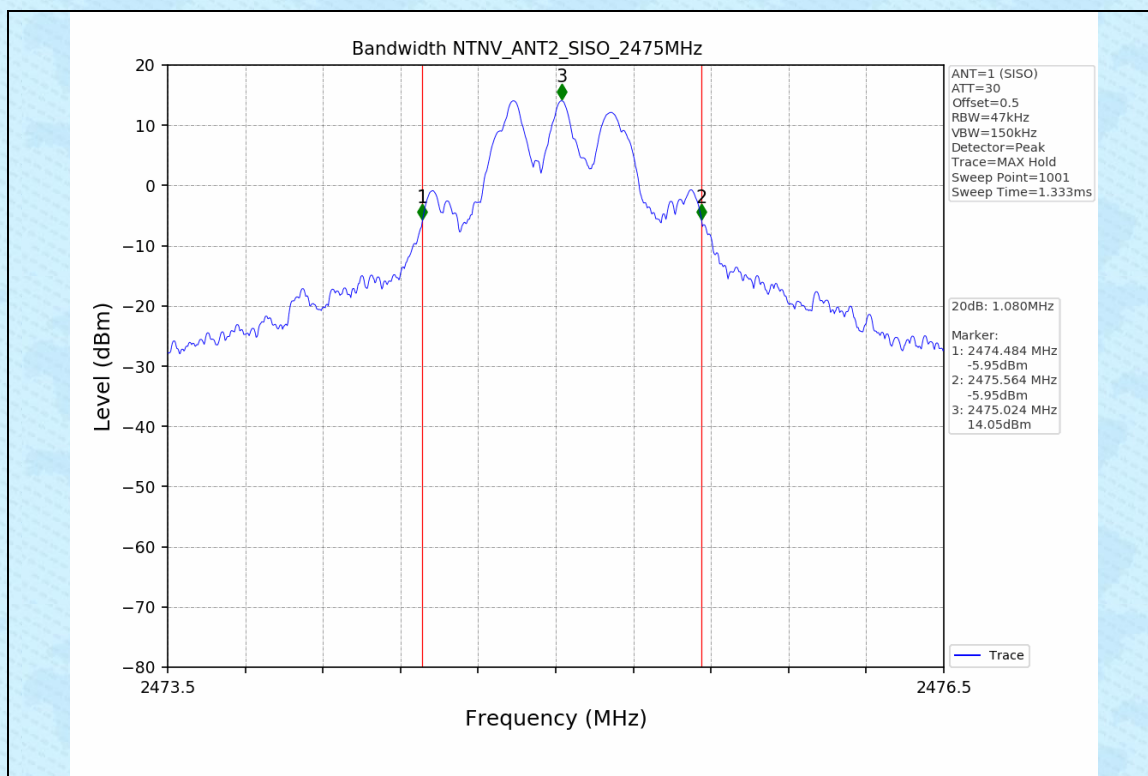
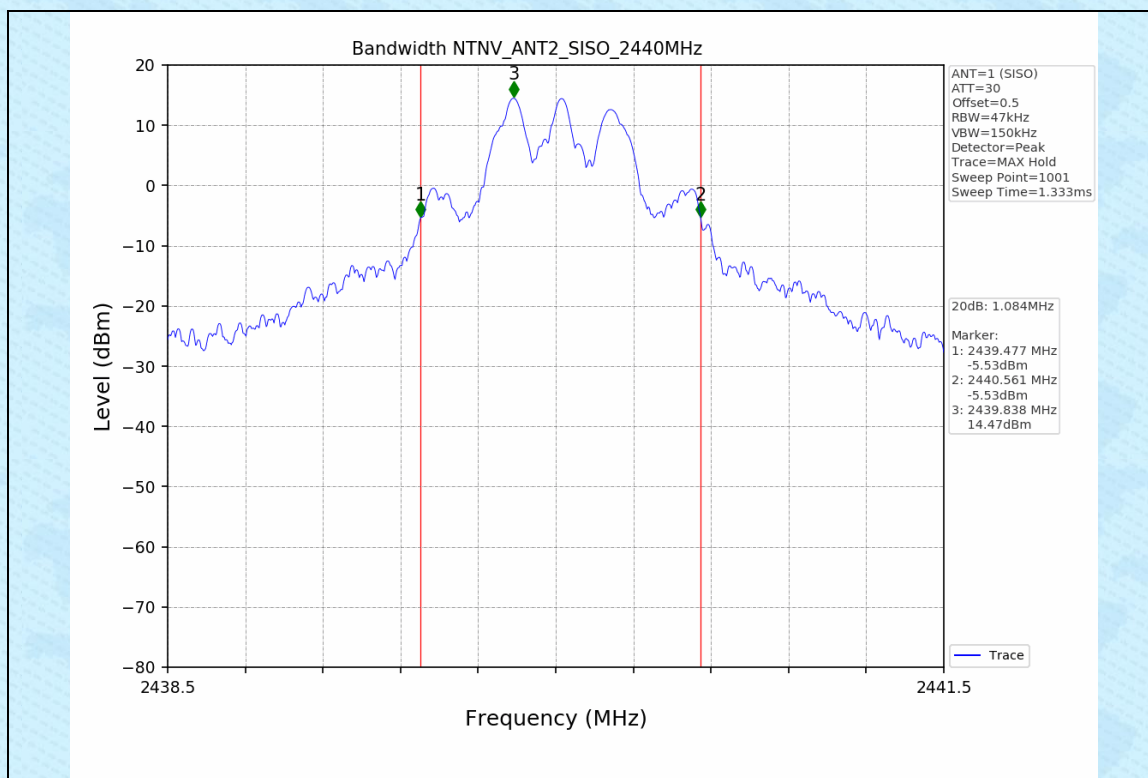
ANT 1:





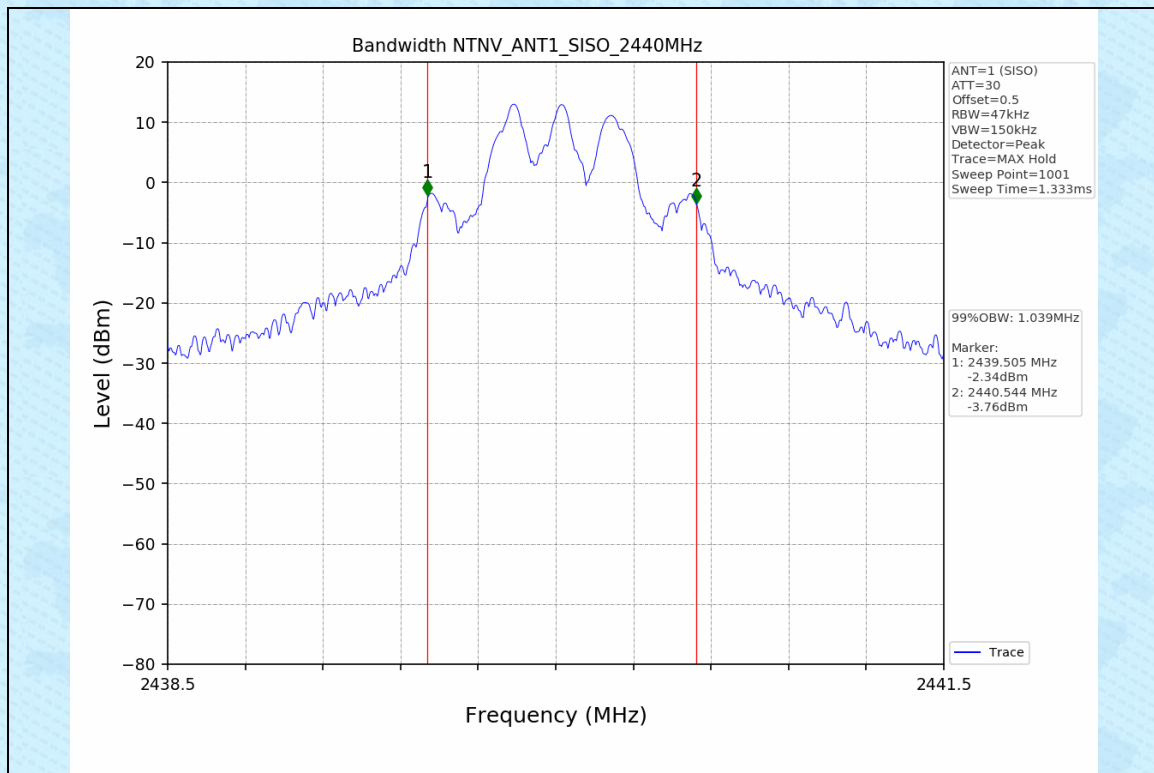
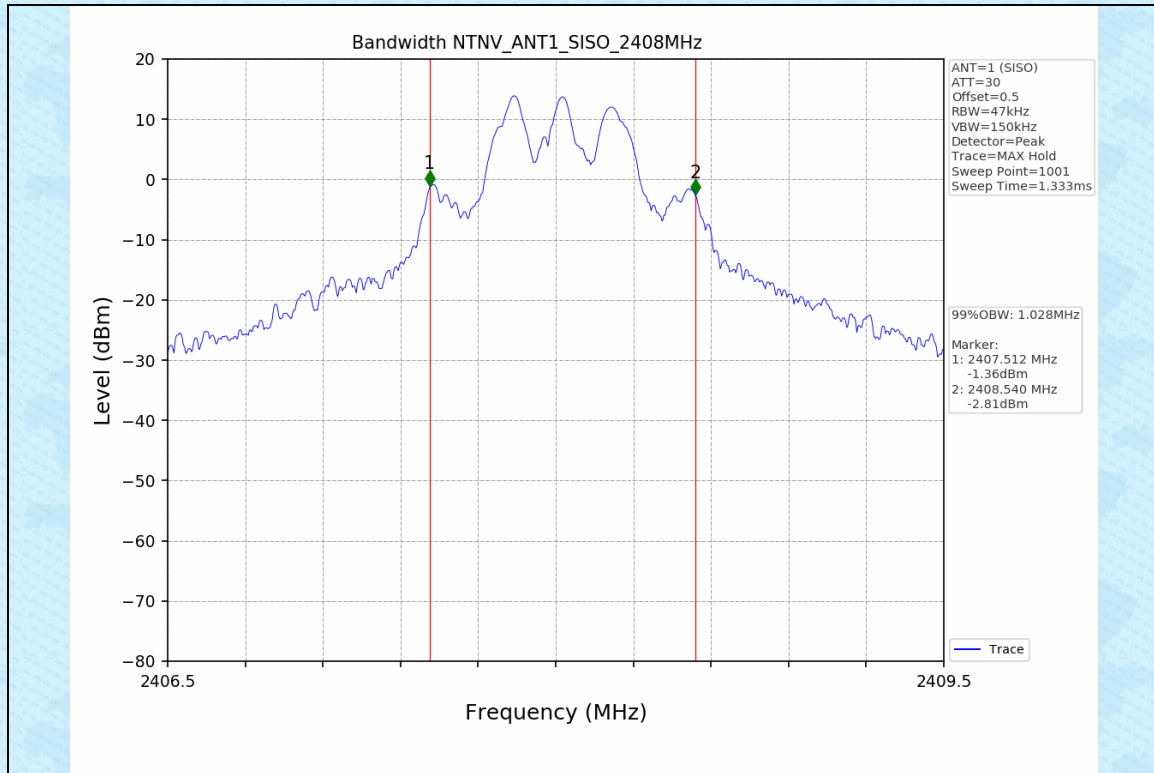
ANT 2:

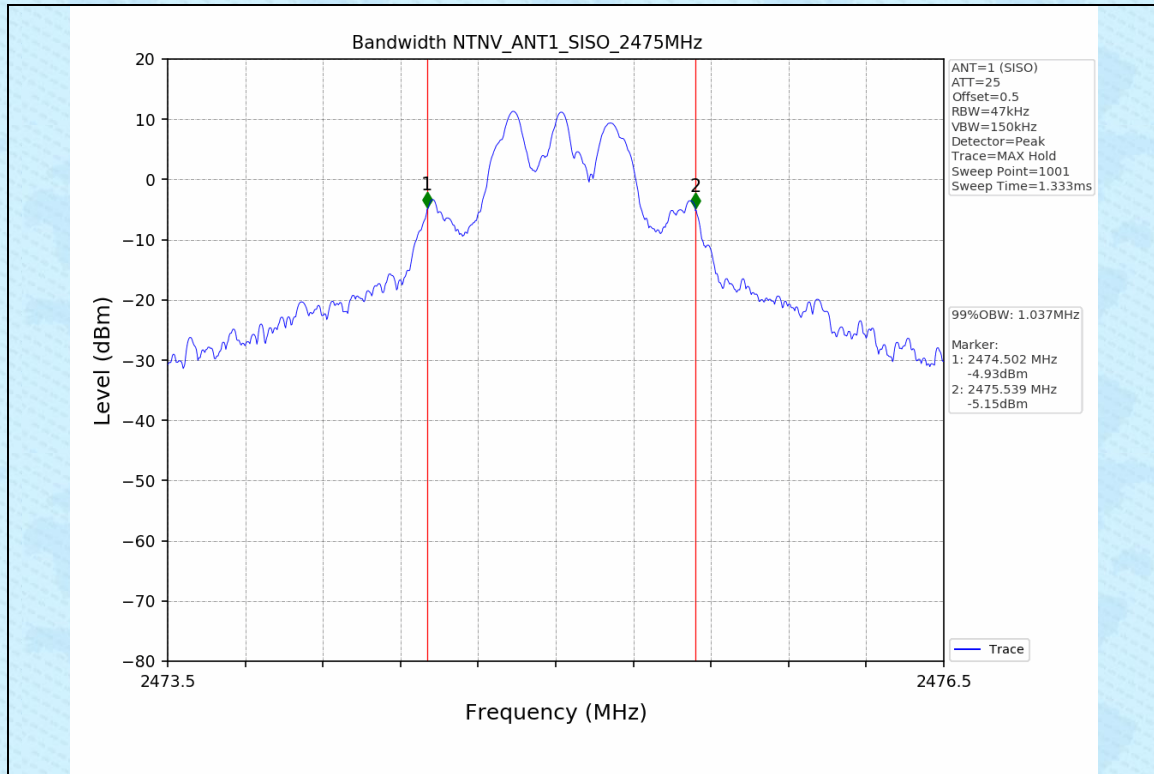




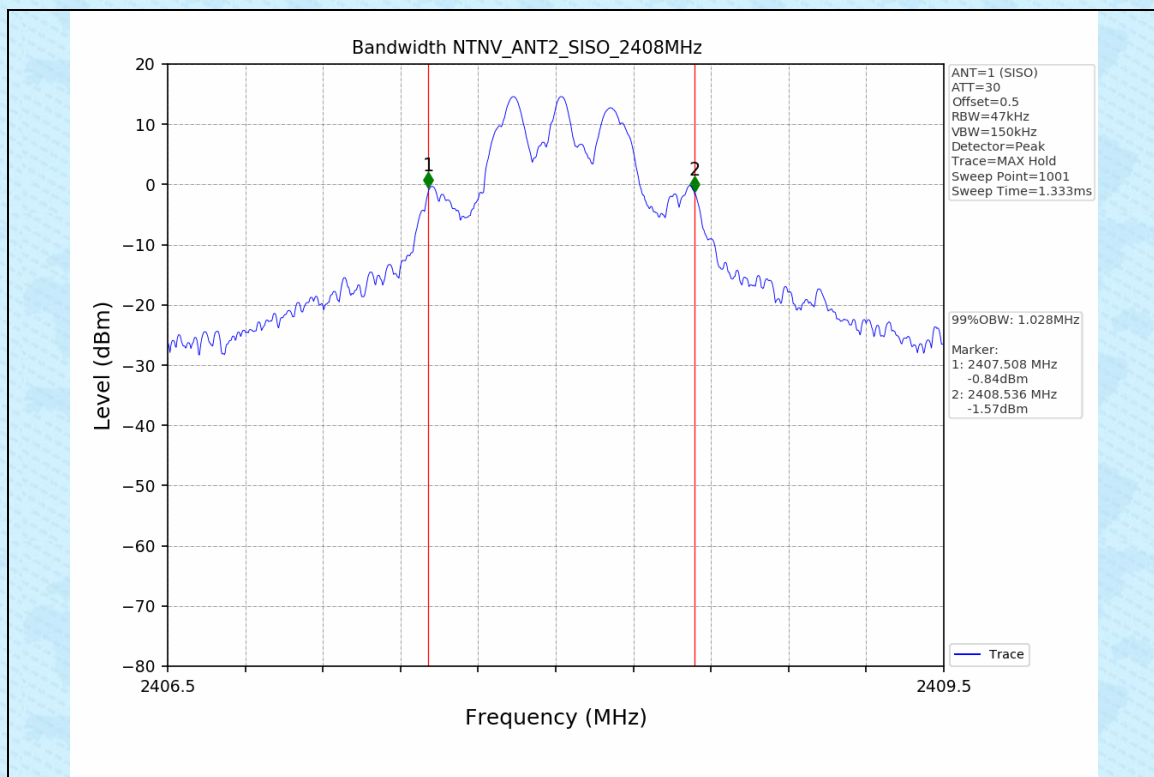
1.3 Test Graph - 99% Occupied Bandwidth

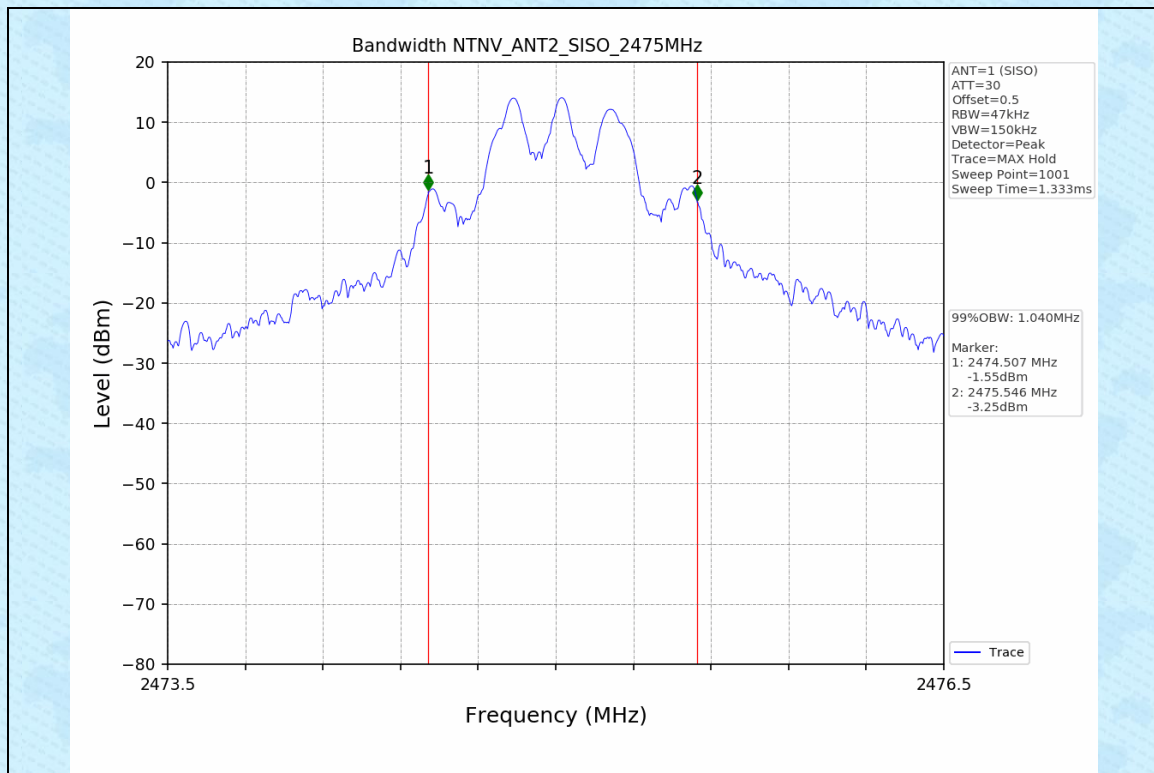
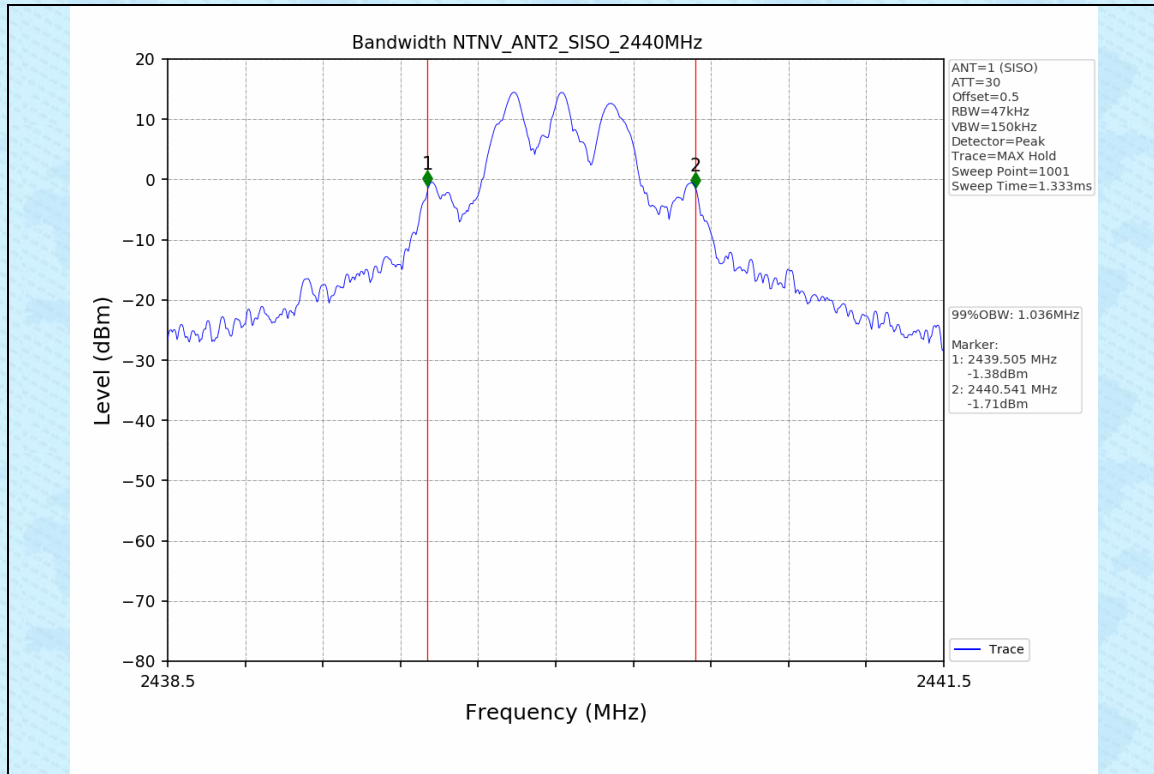
ANT 1:





ANT 2:





2. Maximum Conducted Output Power

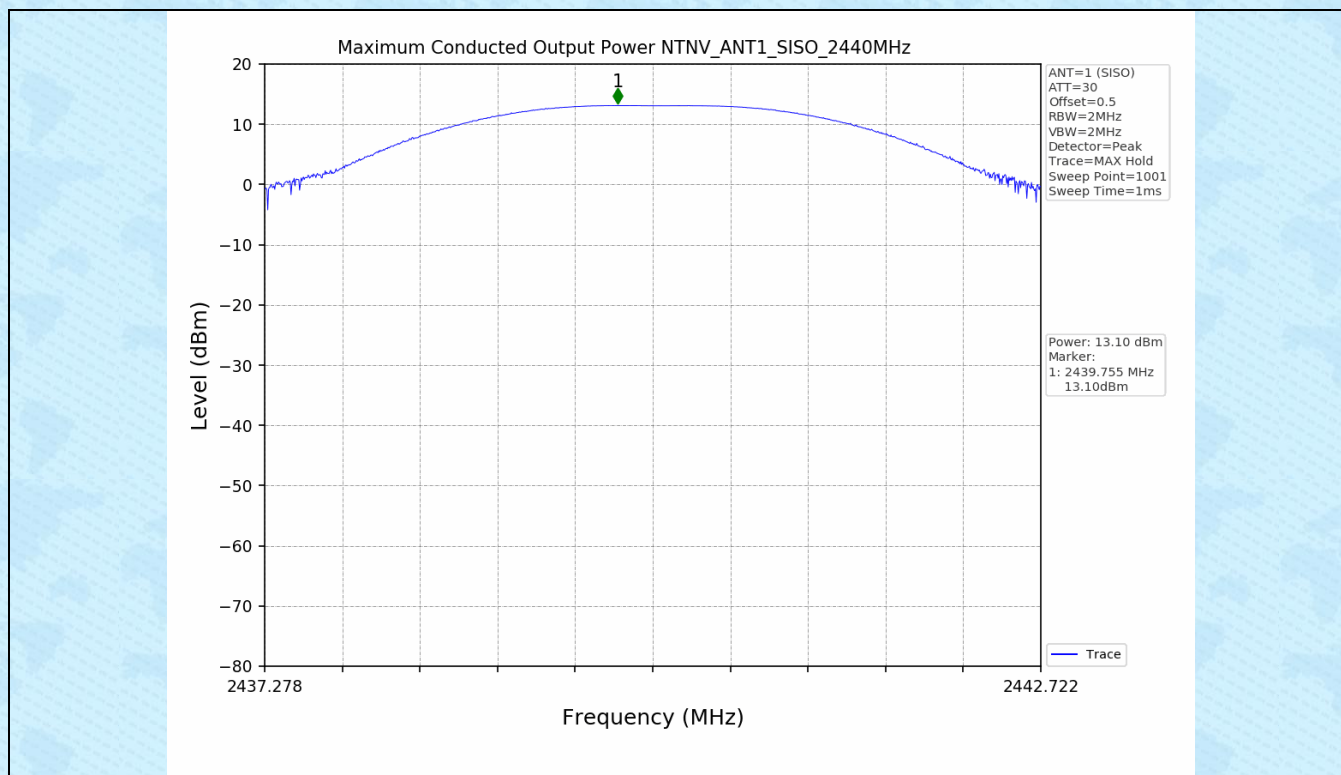
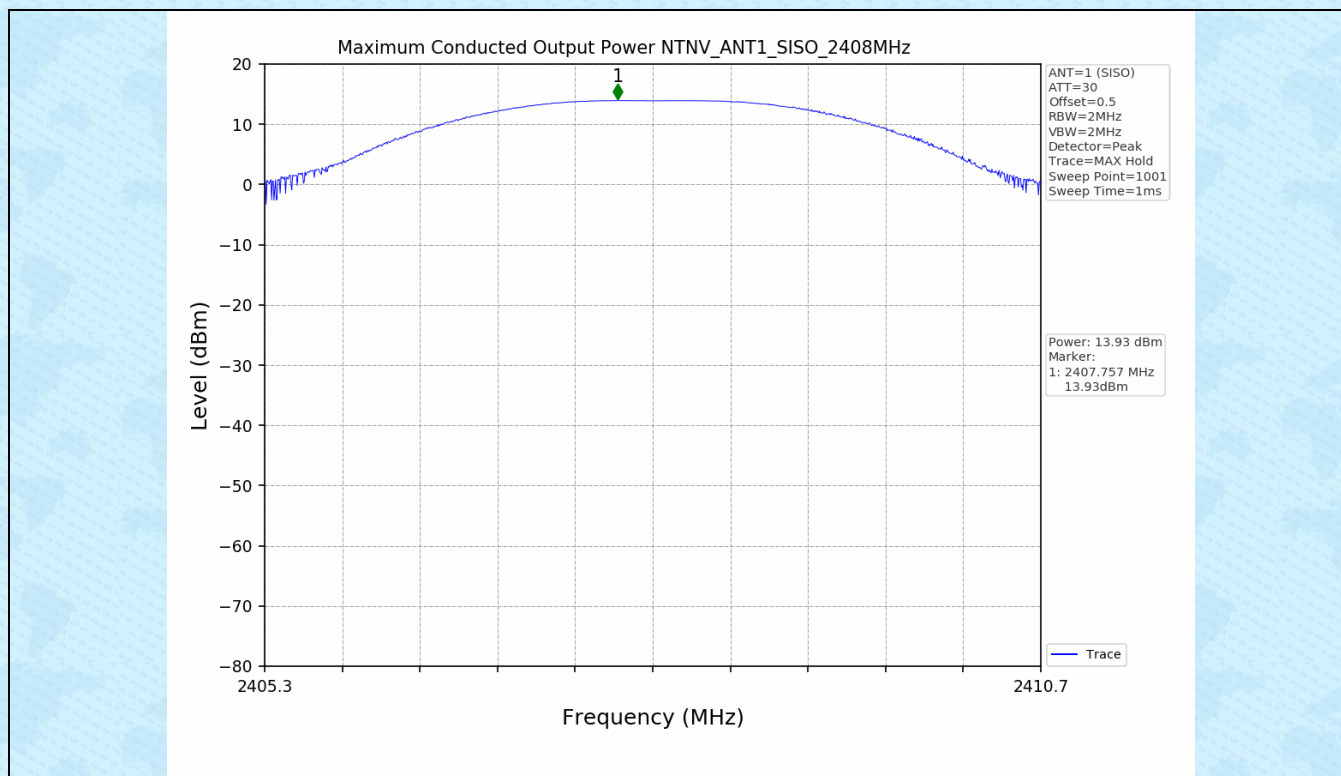
2.1 Test Result

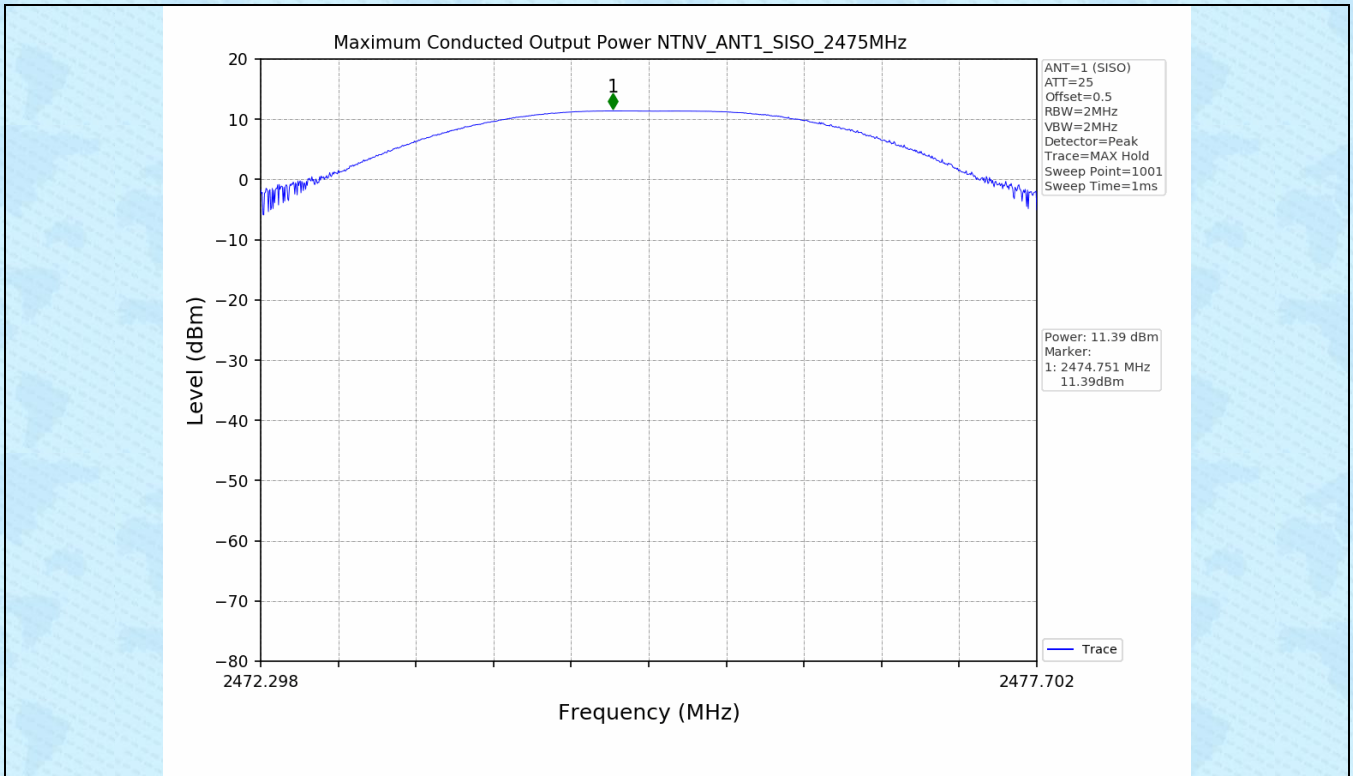
ANT No.	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1	2420	SISO	13.93	20.97	PASS
	2440	SISO	13.10	20.97	PASS
	2480	SISO	11.39	20.97	PASS

ANT No.	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 2		
2	2420	SISO	14.68	20.97	PASS
	2440	SISO	14.55	20.97	PASS
	2480	SISO	14.09	20.97	PASS

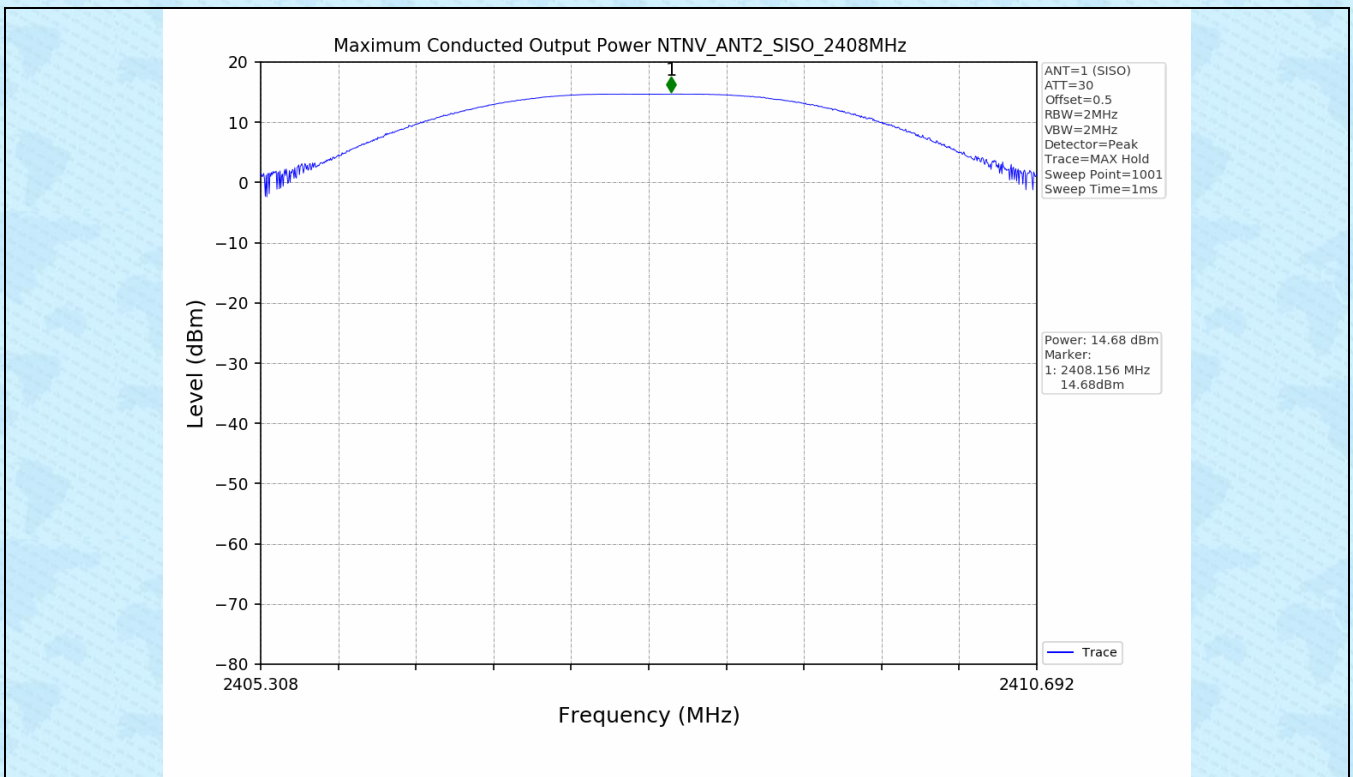
2.2 Test Graph

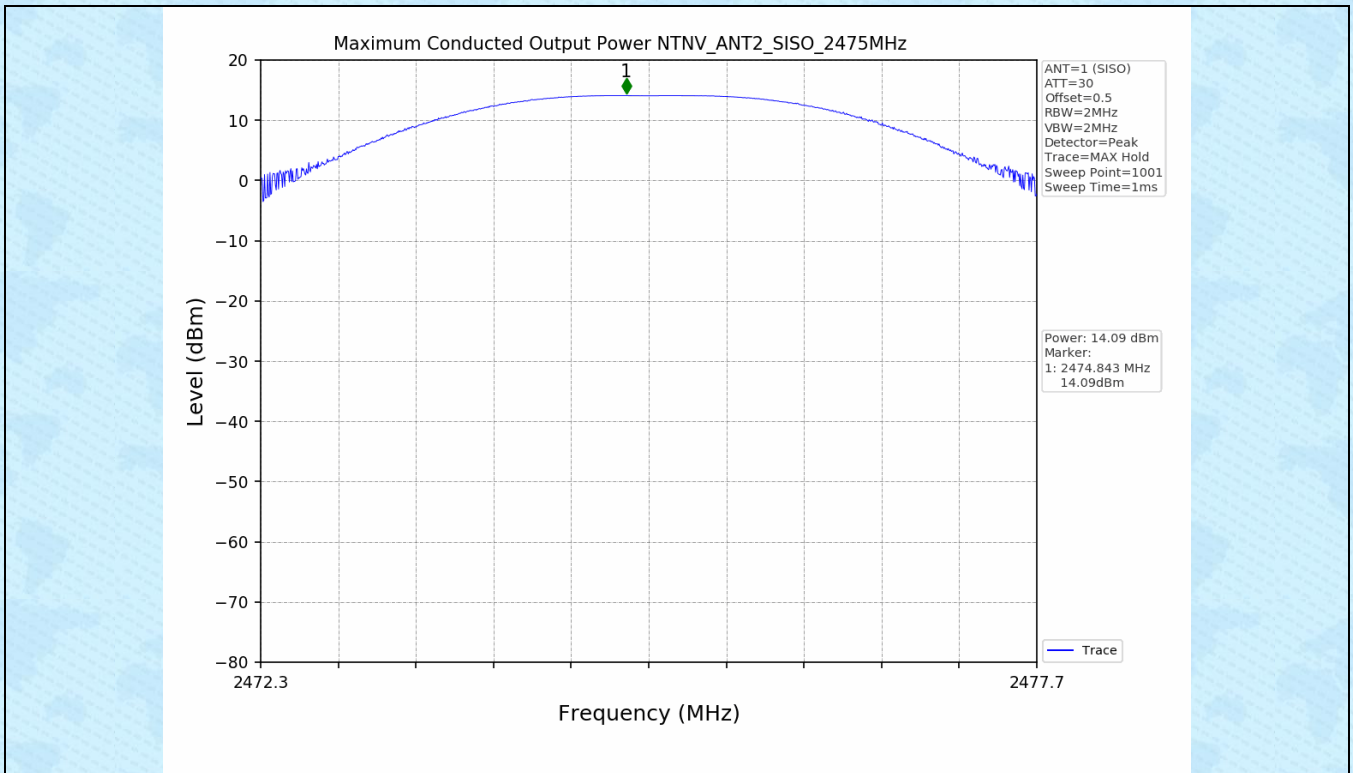
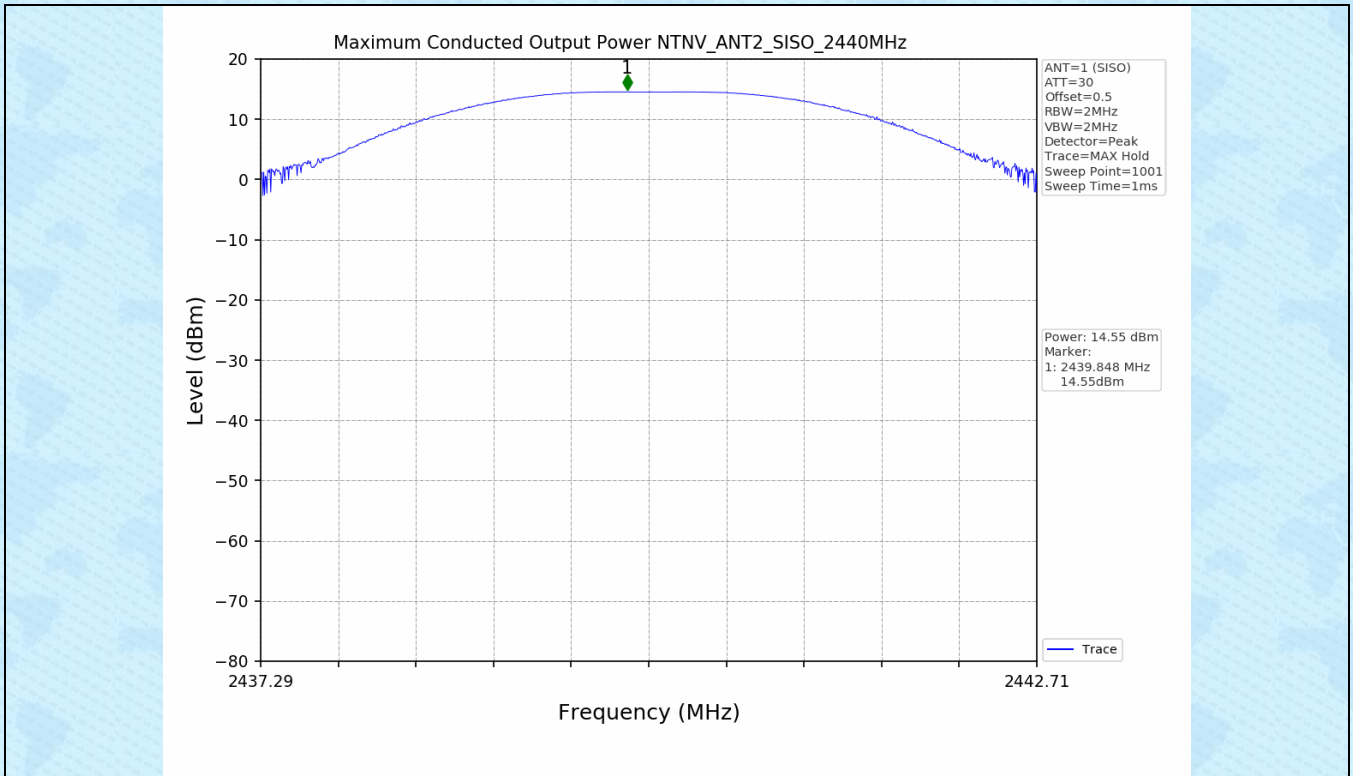
ANT 1:





ANT 2:





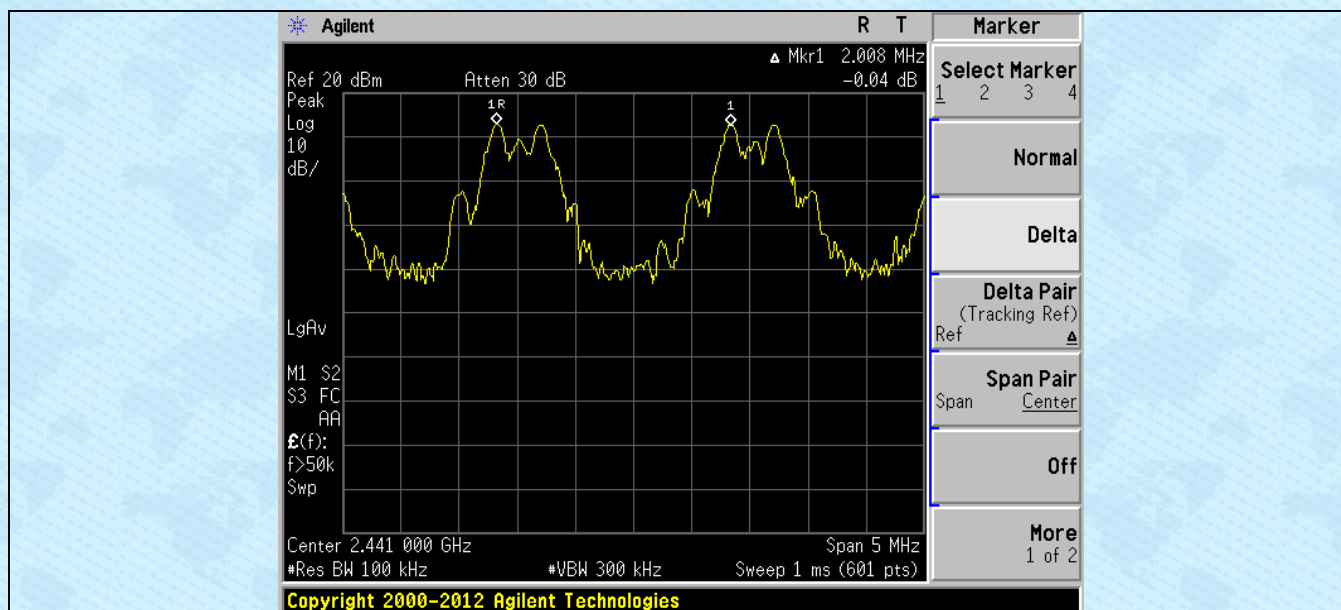
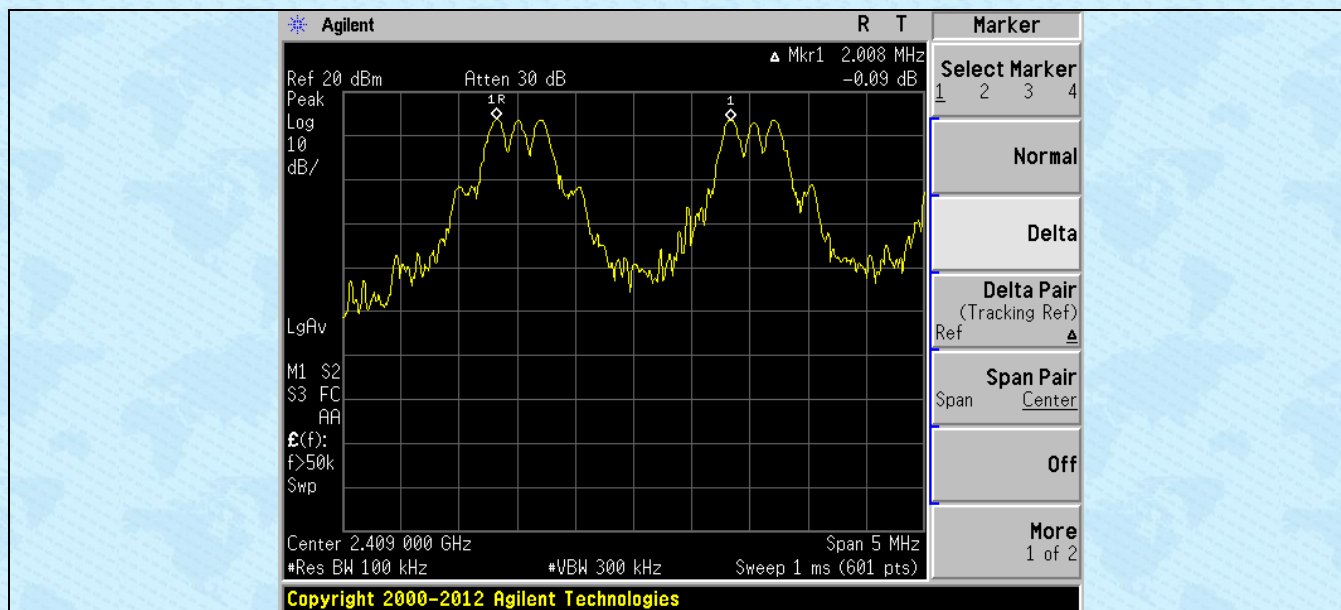
3. Carrier frequency separation

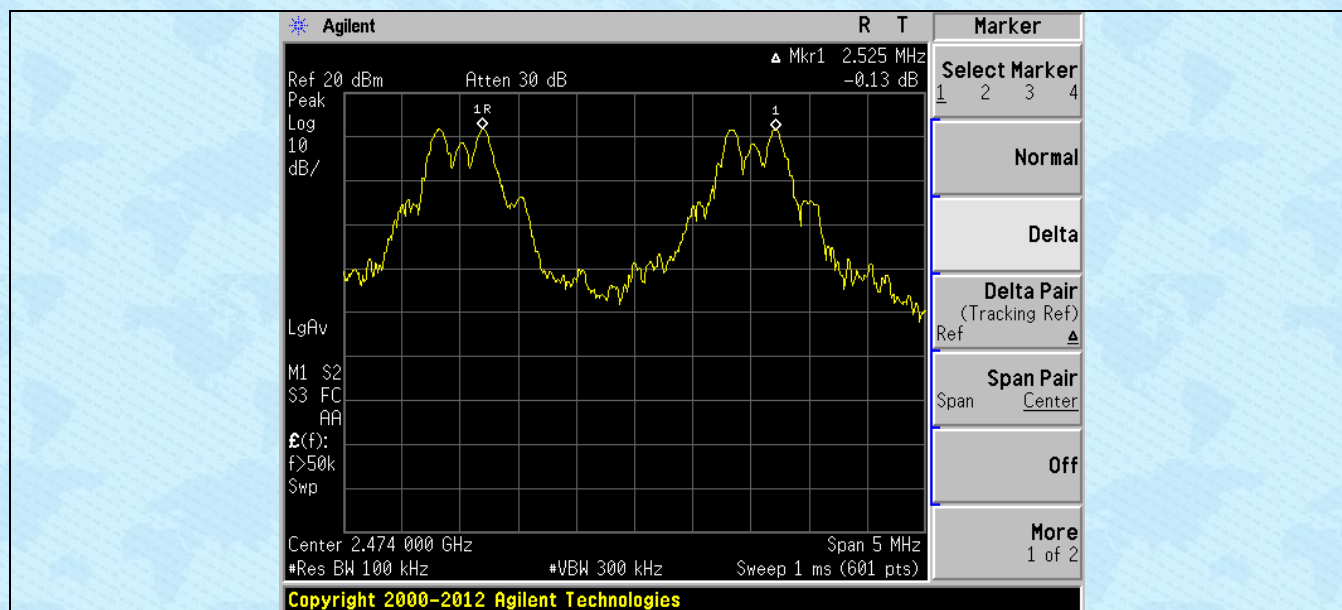
3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
1	Lowest	2008	720	Pass
	Middle	2008	726	Pass
	Highest	2525	721	Pass
2	Lowest	2008	718	Pass
	Middle	2008	723	Pass
	Highest	2517	720	Pass

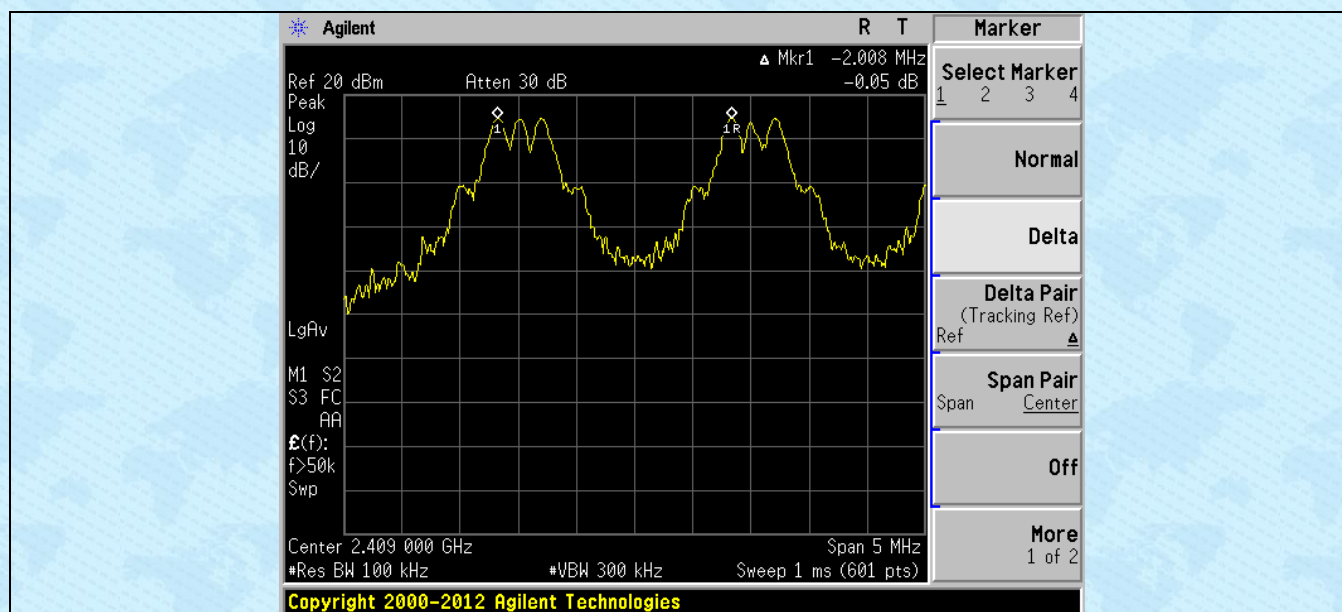
3.2 Test Graph

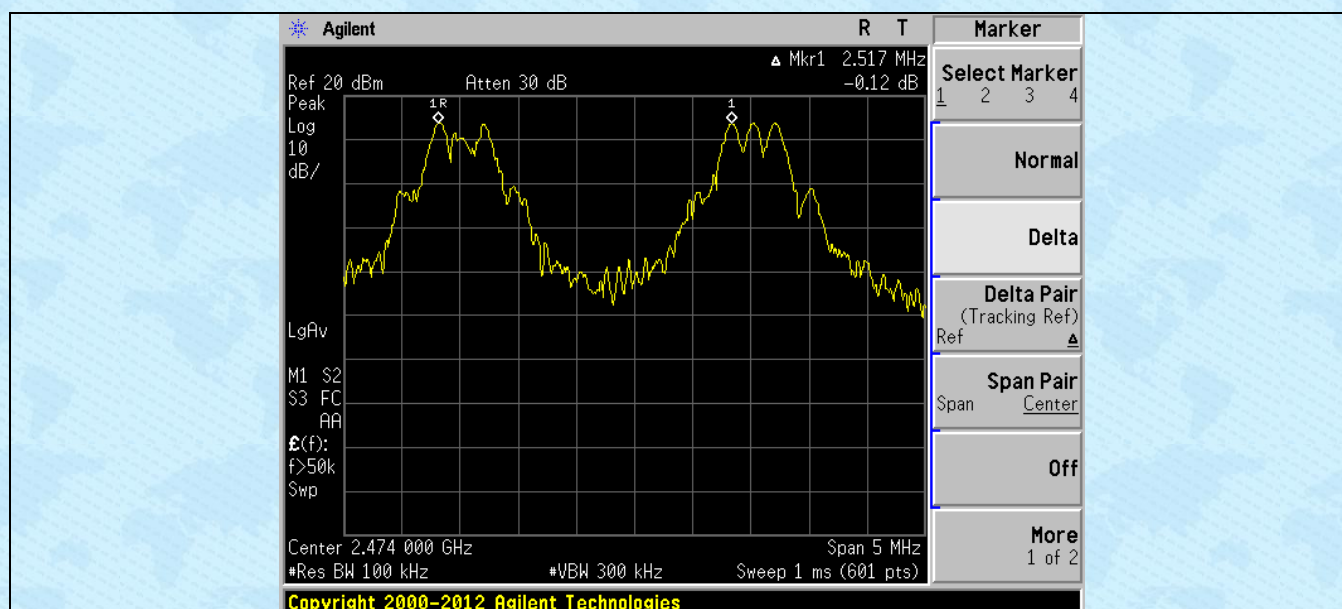
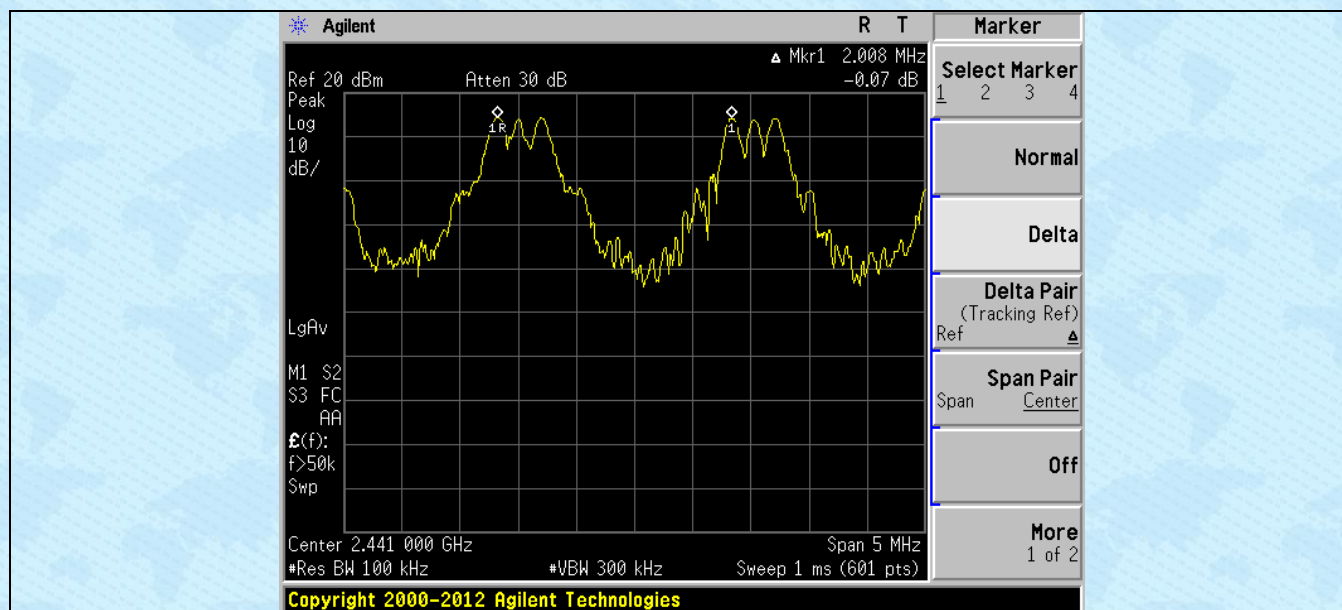
ANT 1:





ANT 2:





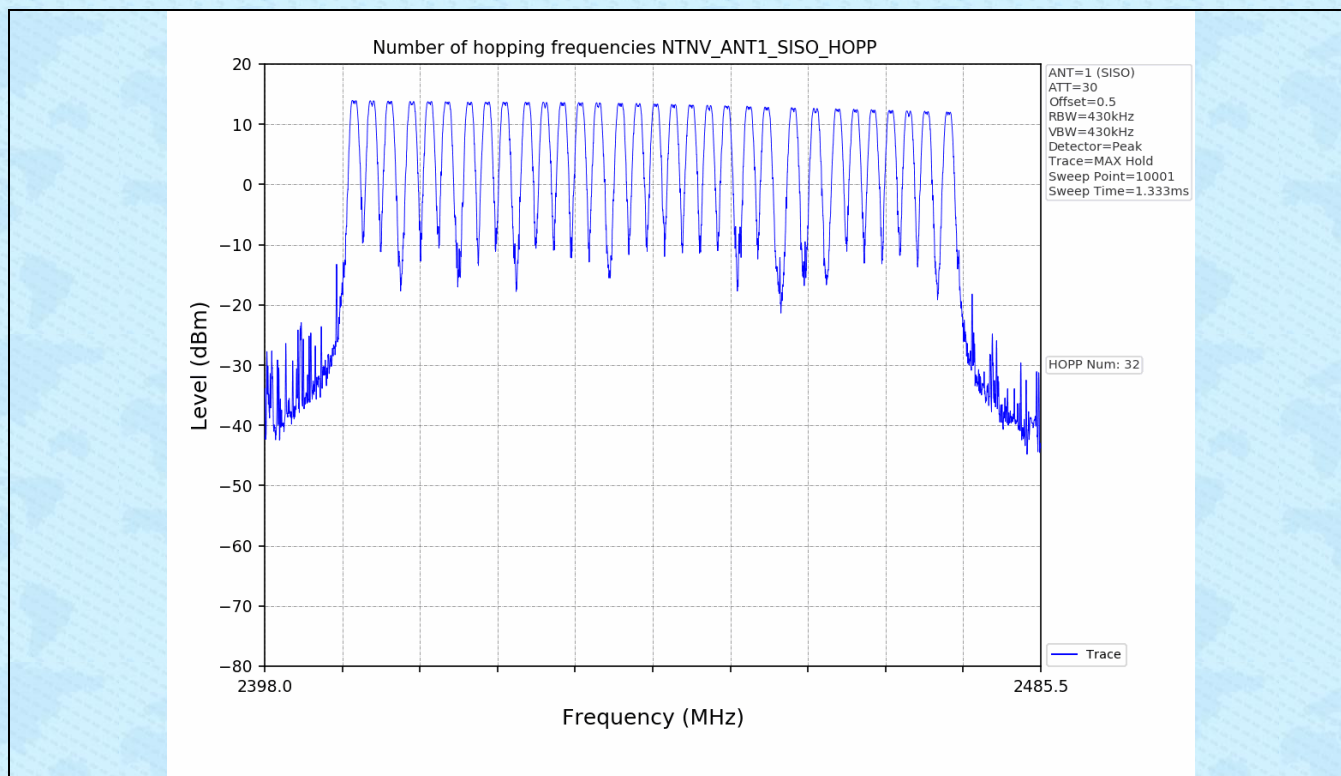
4. Number of hopping frequencies

4.1 Test Result

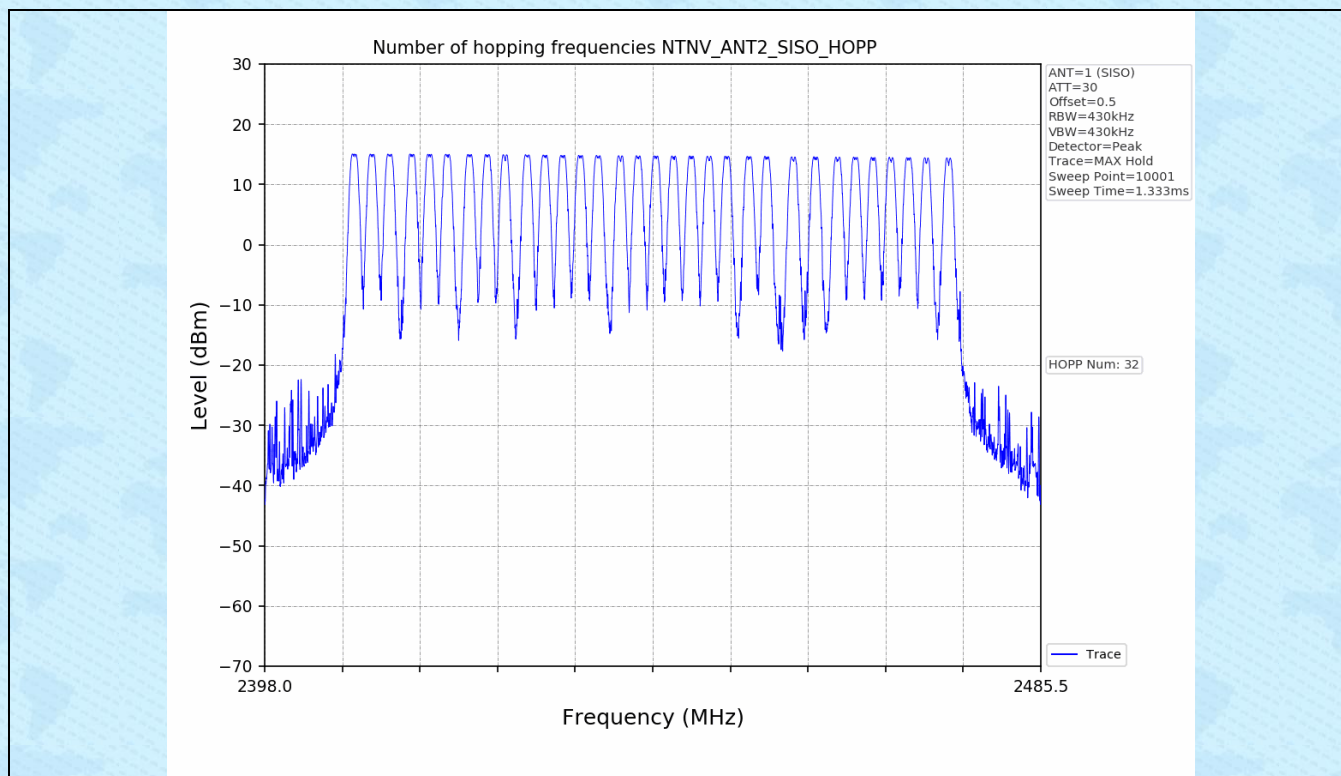
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
FHSS	SISO	ANT1	32	≥ 15	PASS
	SISO	ANT2	32	≥ 15	PASS

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	1.3	33.28	400	Pass
	Middle	1.3	33.28	400	Pass
	Highest	1.3	49.92	400	Pass
2	Lowest	1.3	33.28	400	Pass
	Middle	1.3	33.28	400	Pass
	Highest	1.3	49.92	400	Pass

The formula as below:

ANT 1:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=33.28ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=33.28ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=49.92ms

ANT 2:

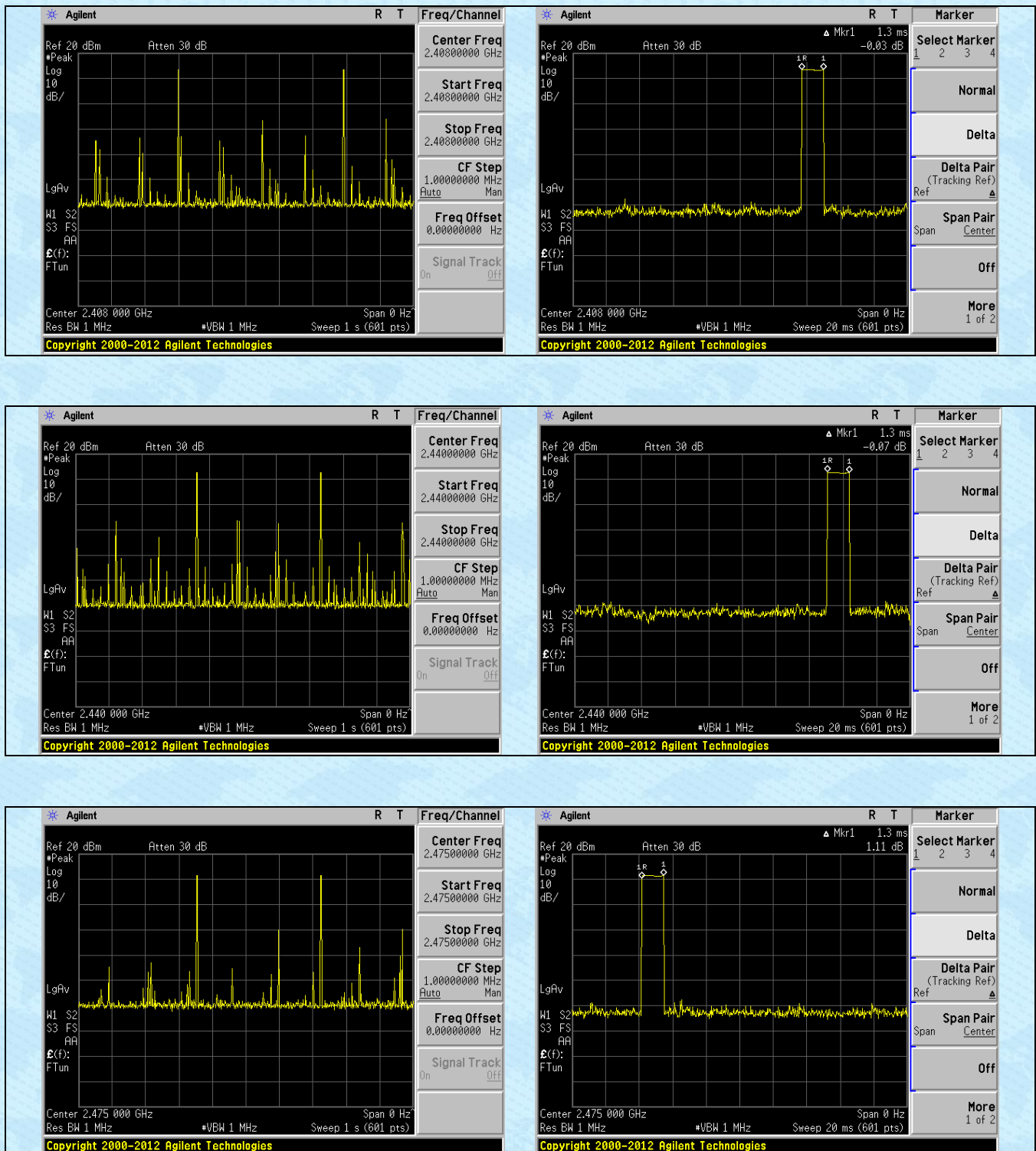
Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=33.28ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=33.28ms

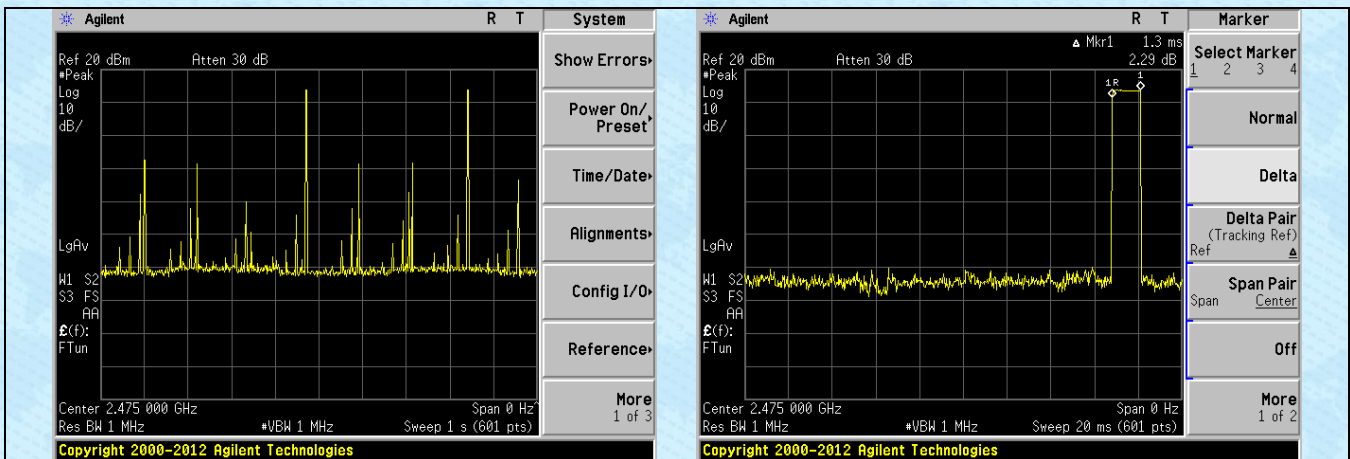
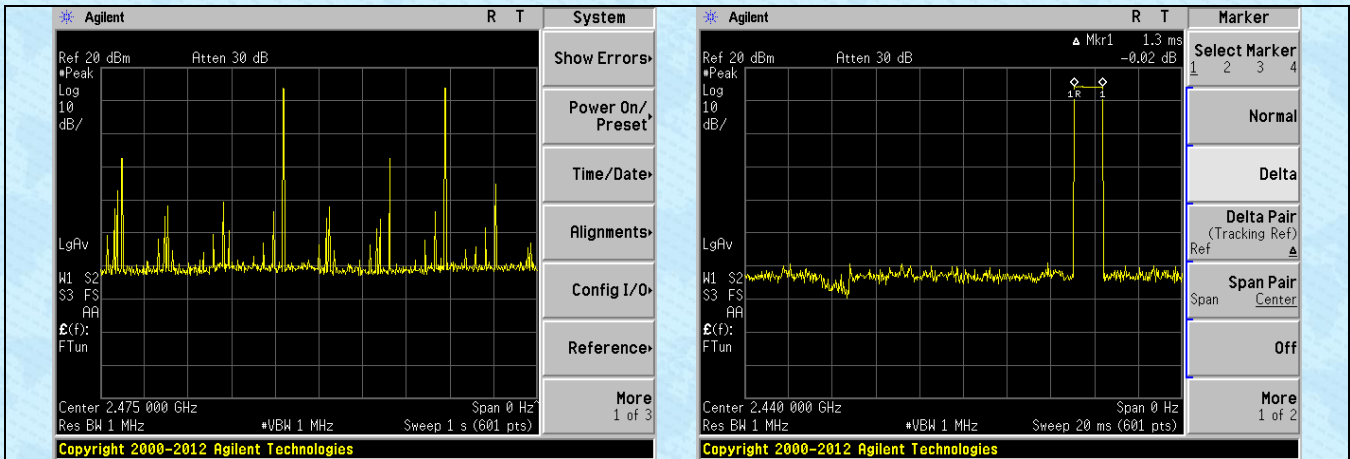
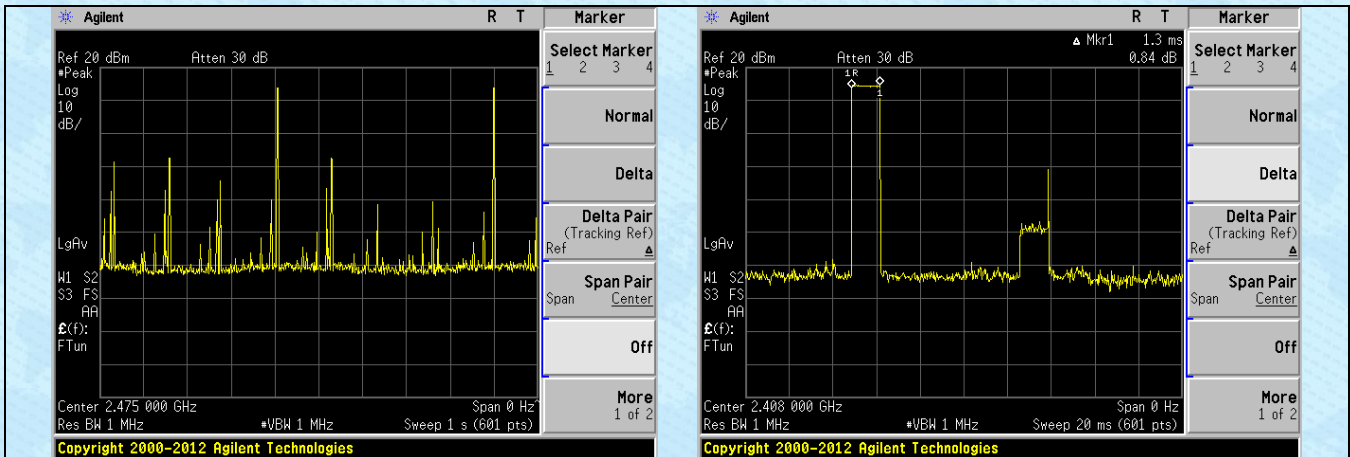
Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=1.3ms*2*0.4*32=49.92ms

5.2 Test Graph

ANT 1:



ANT 2:



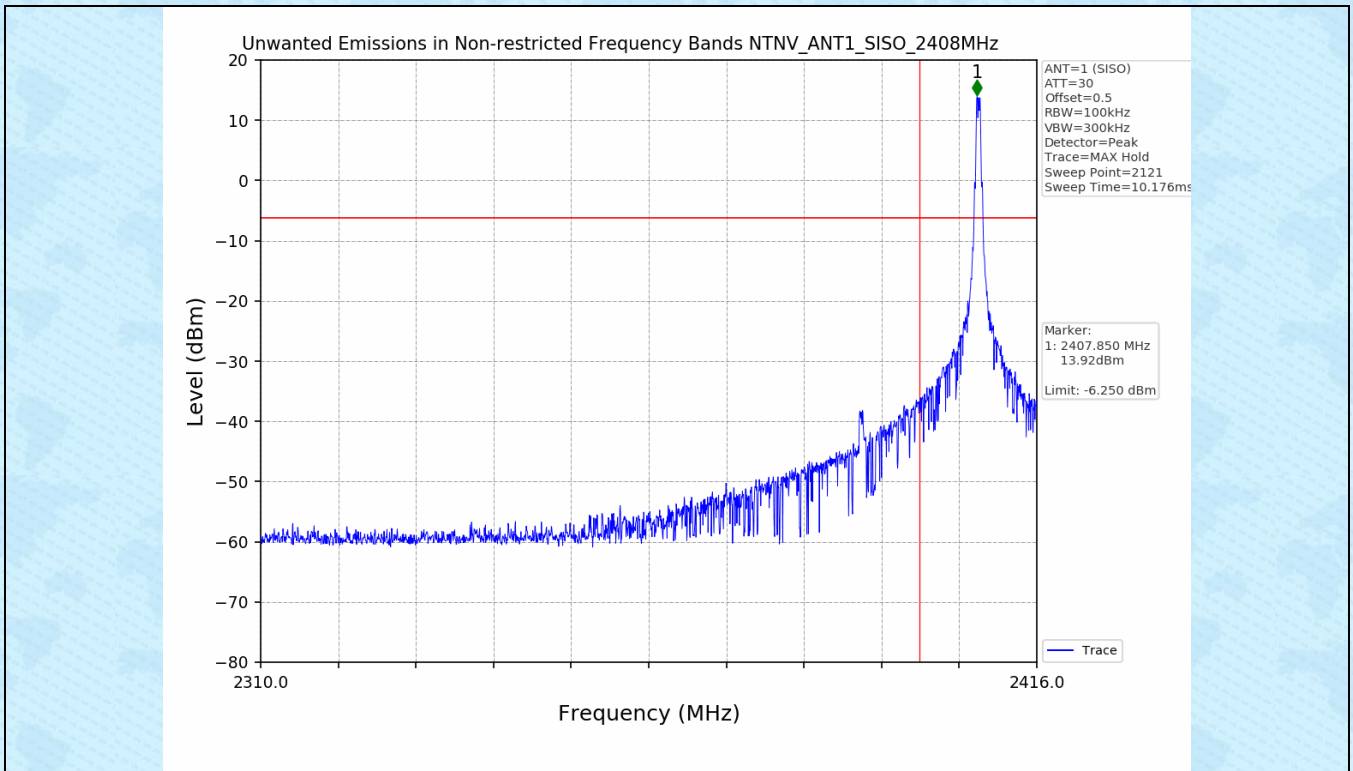
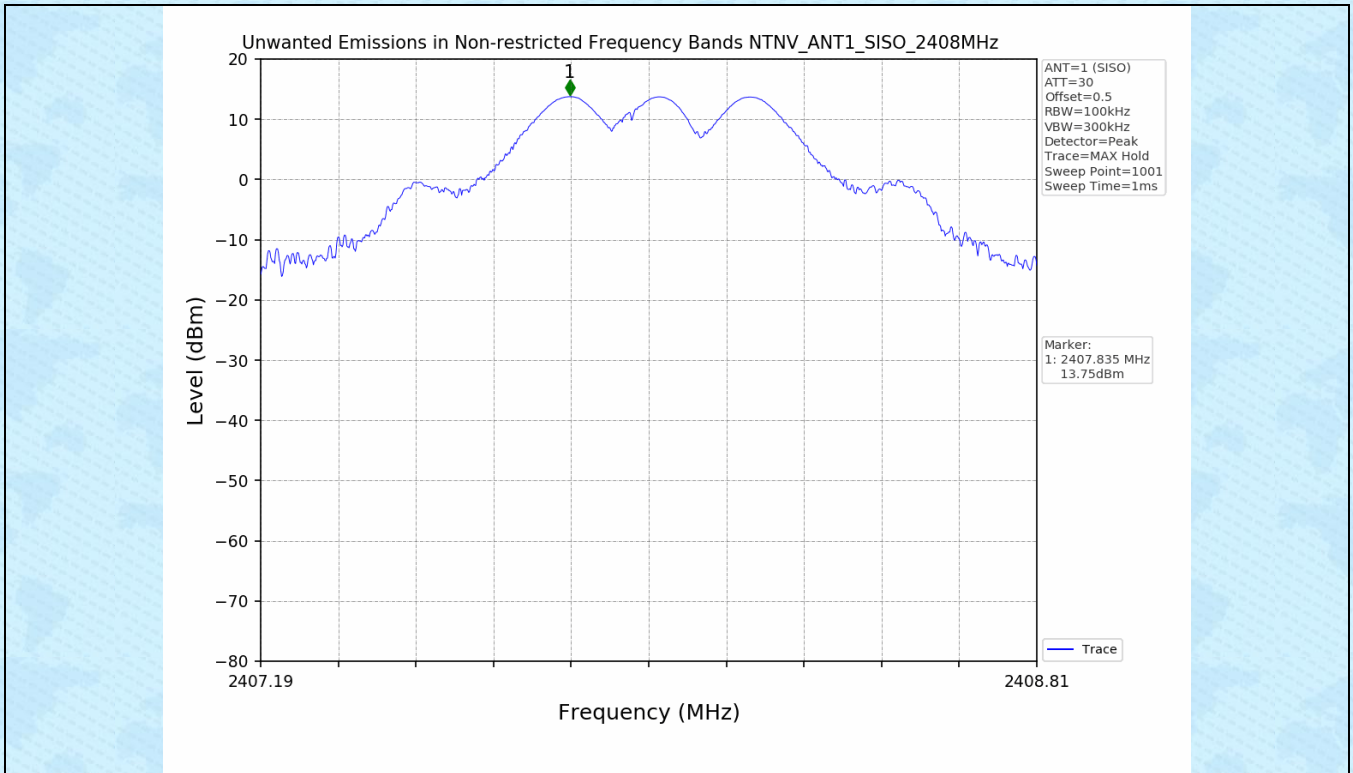
6. Unwanted Emissions in Non-restricted Frequency Bands

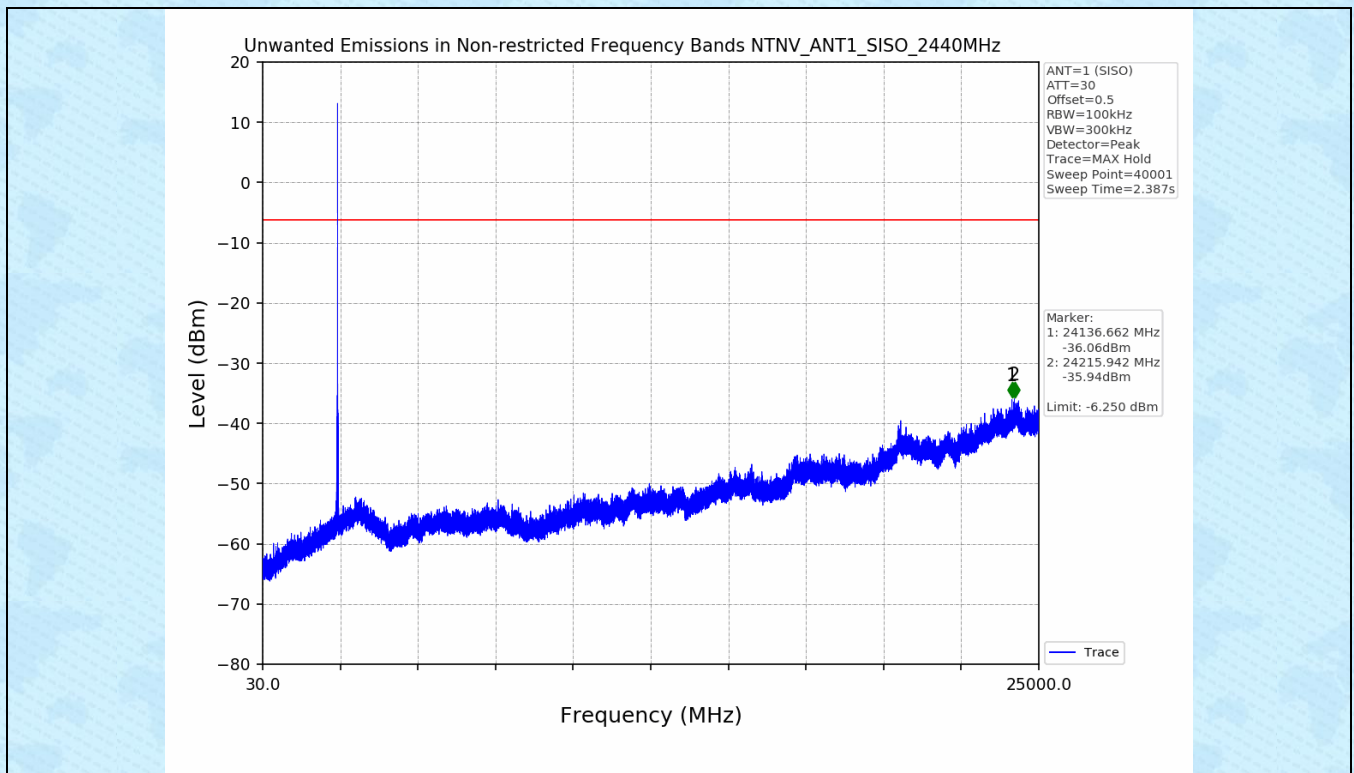
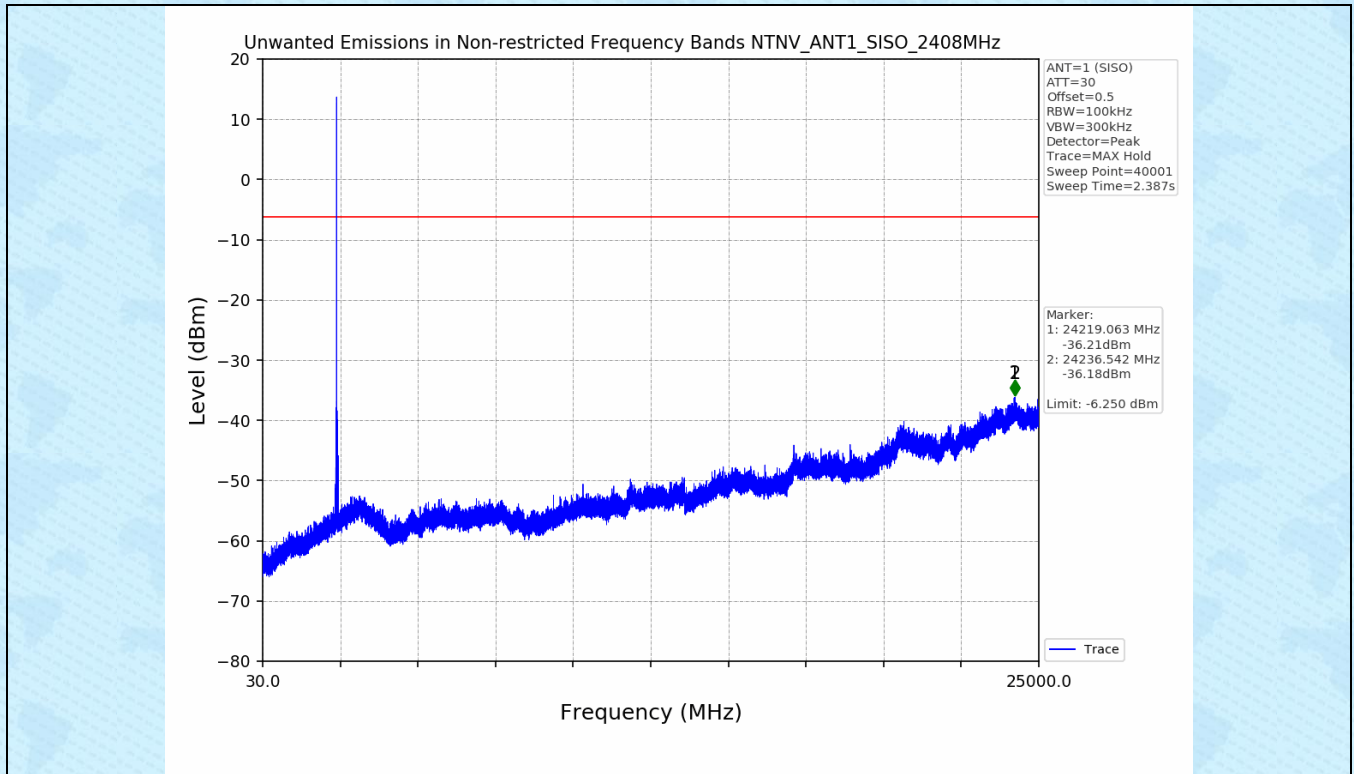
6.1 Test Result

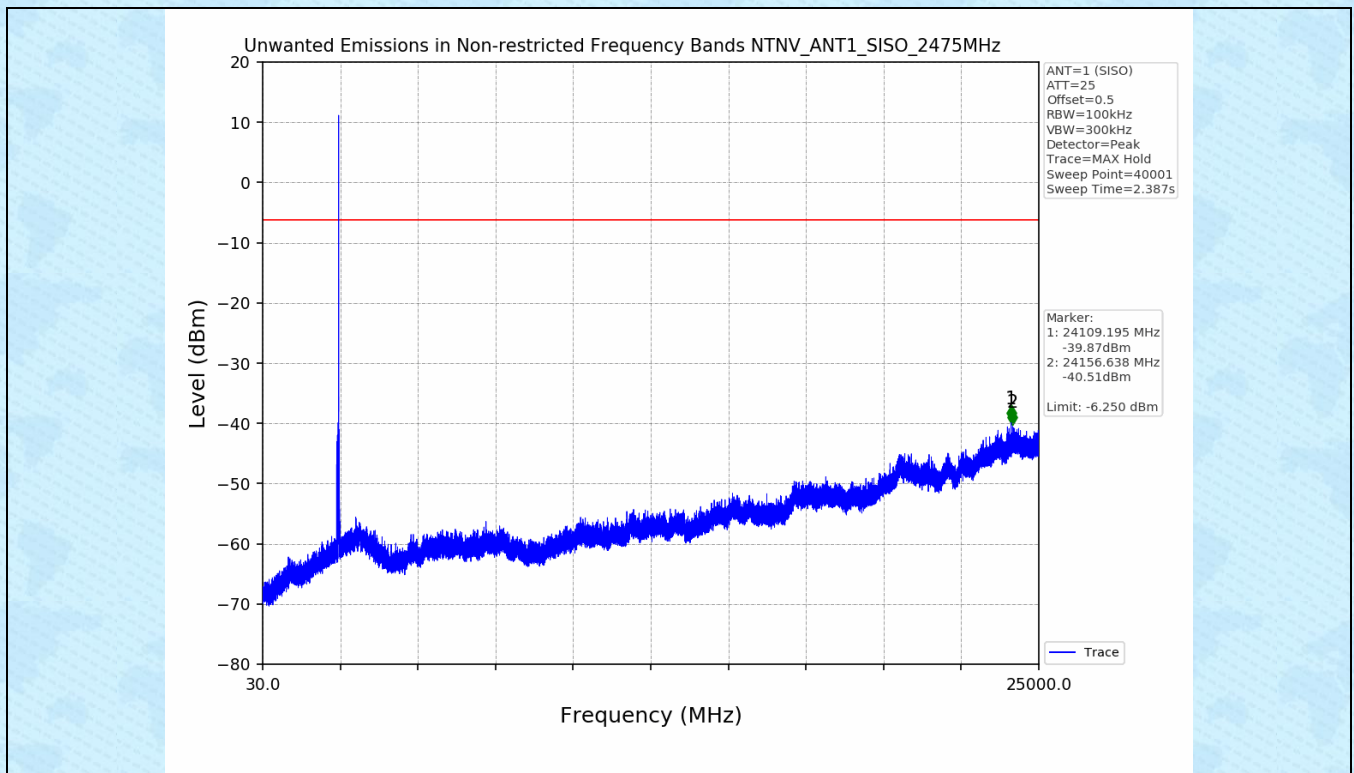
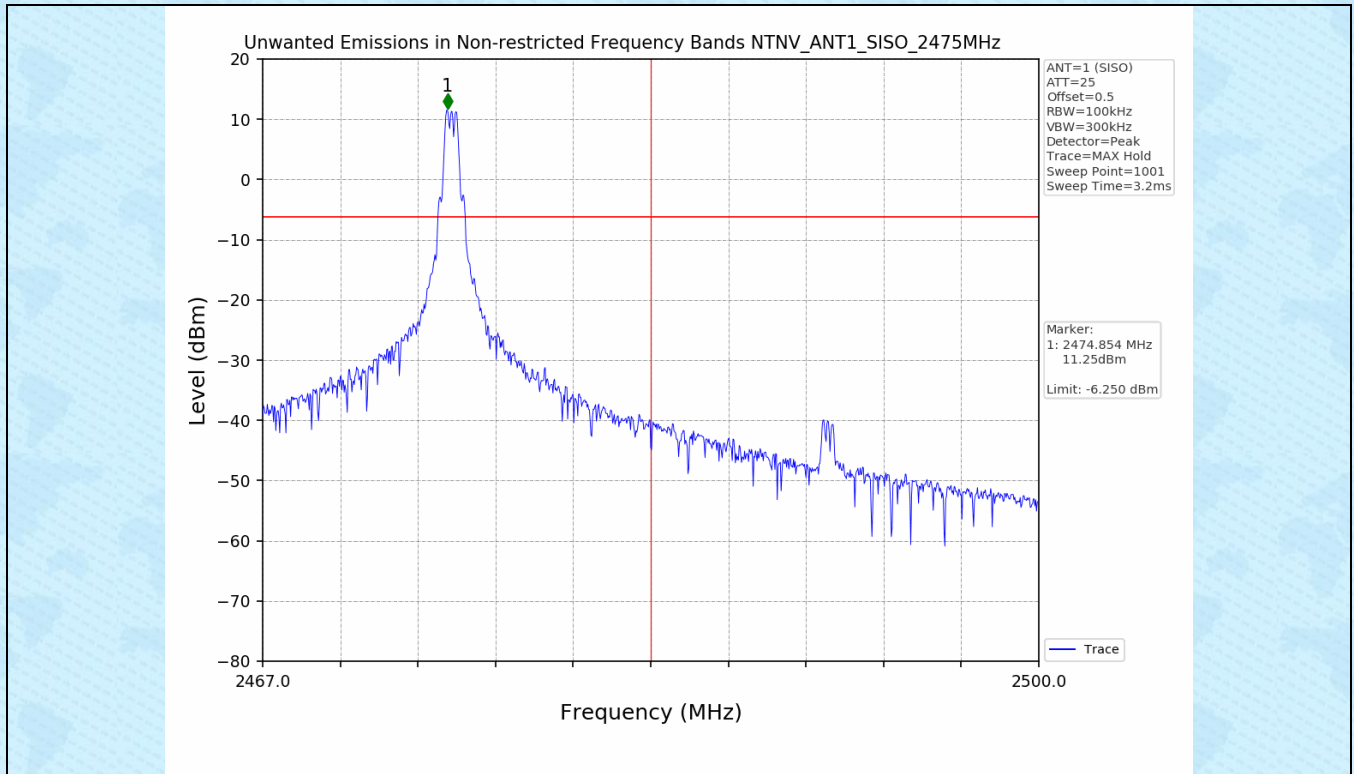
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
Transmitting	2408	SISO	ANT1	Refer to test graph	-6.25	PASS
	2440	SISO	ANT1	Refer to test graph	-6.25	PASS
	2475	SISO	ANT1	Refer to test graph	-6.25	PASS
	Hopping	SISO	ANT1	Refer to test graph	-6.25	PASS
	2408	SISO	ANT2	Refer to test graph	-5.39	PASS
	2440	SISO	ANT2	Refer to test graph	-5.39	PASS
	2475	SISO	ANT2	Refer to test graph	-5.39	PASS
	Hopping	SISO	ANT2	Refer to test graph	-5.39	PASS

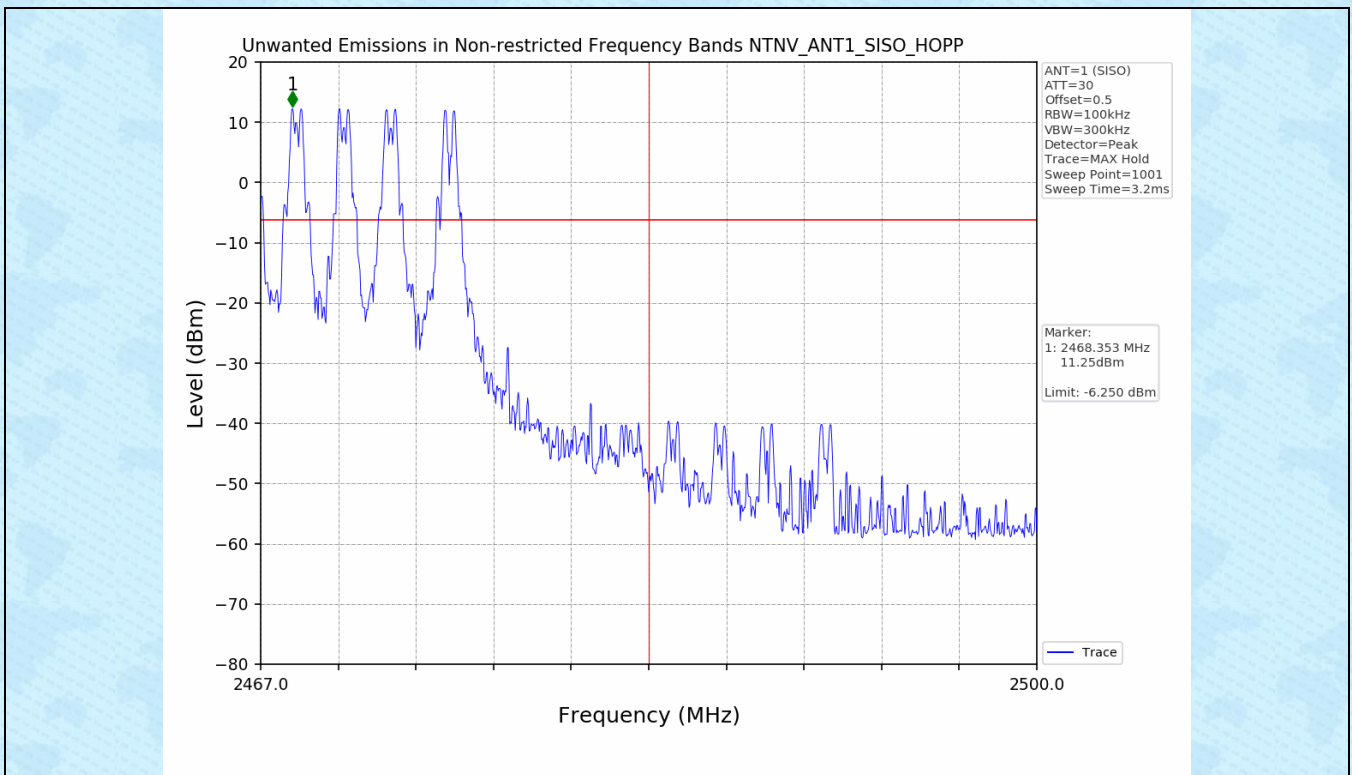
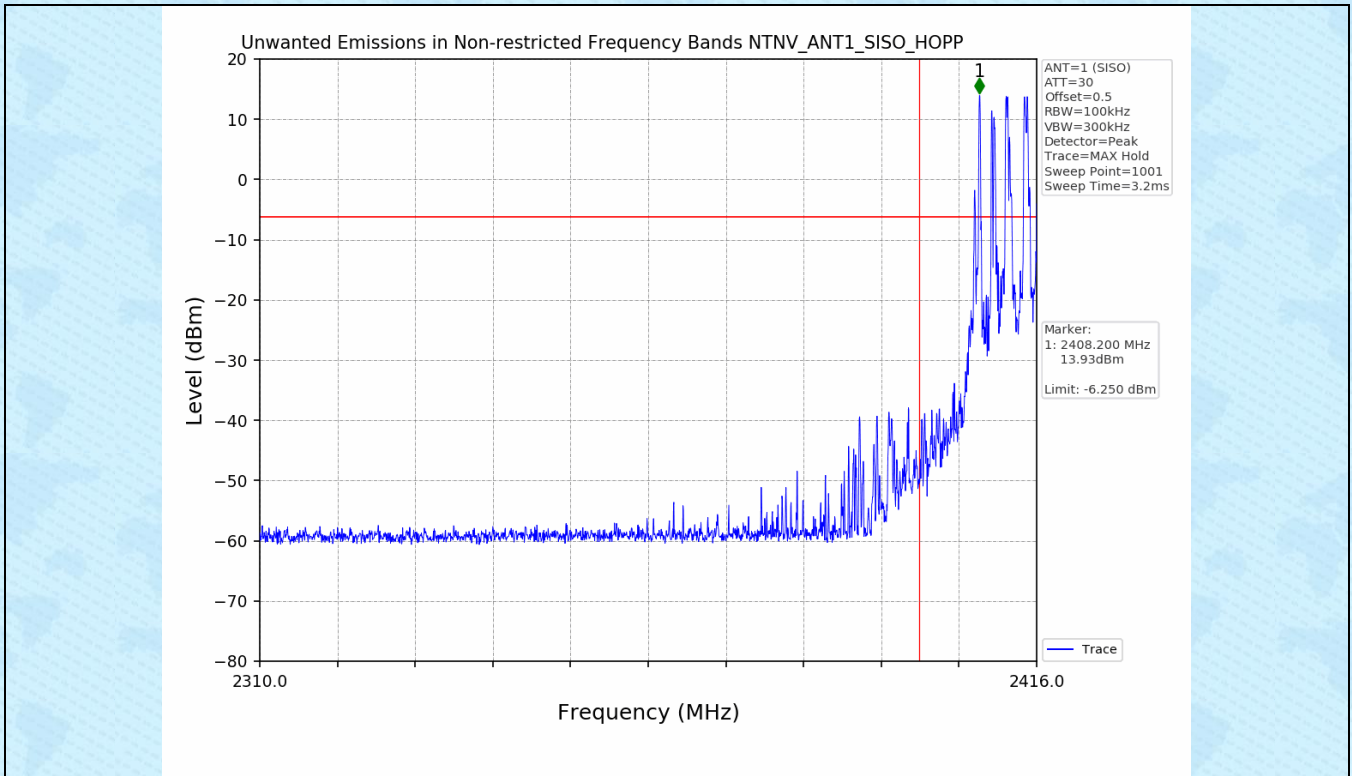
6.2 Test Graph

ANT 1:

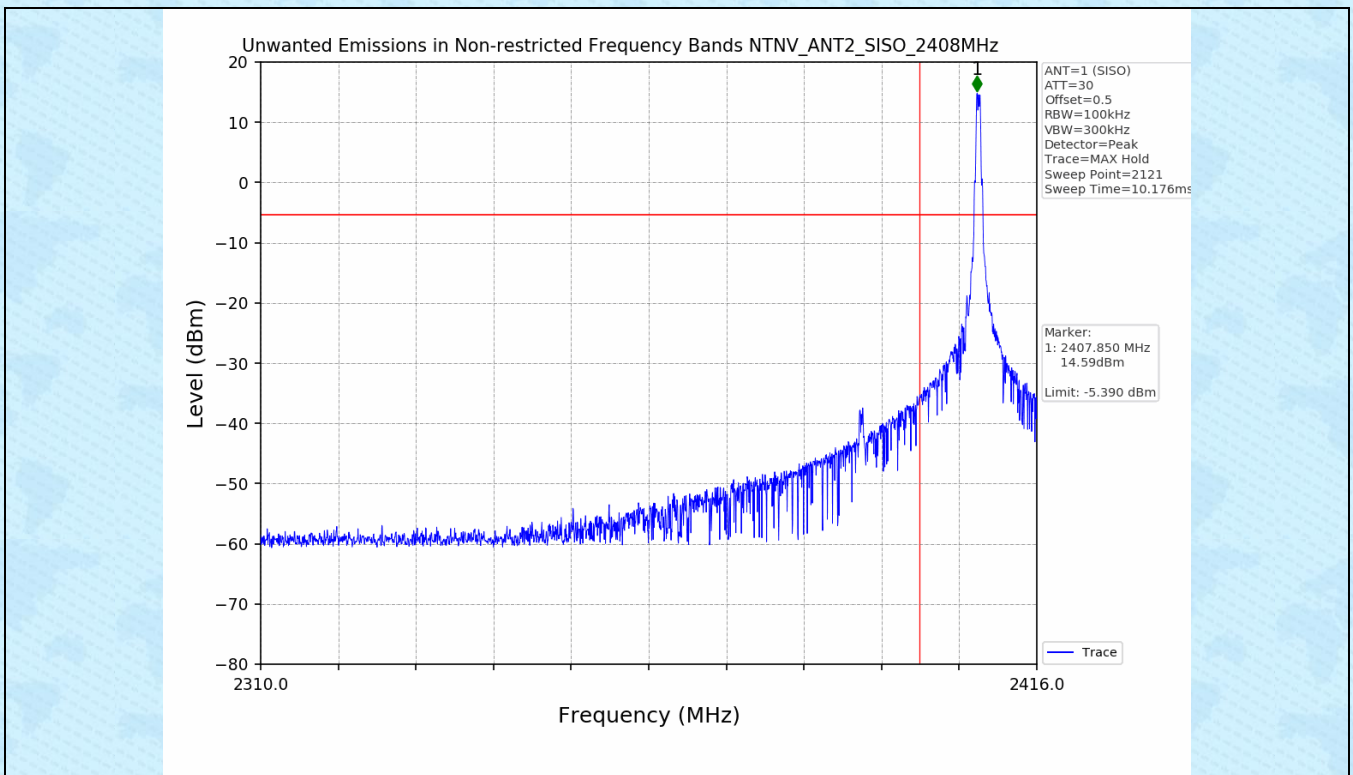
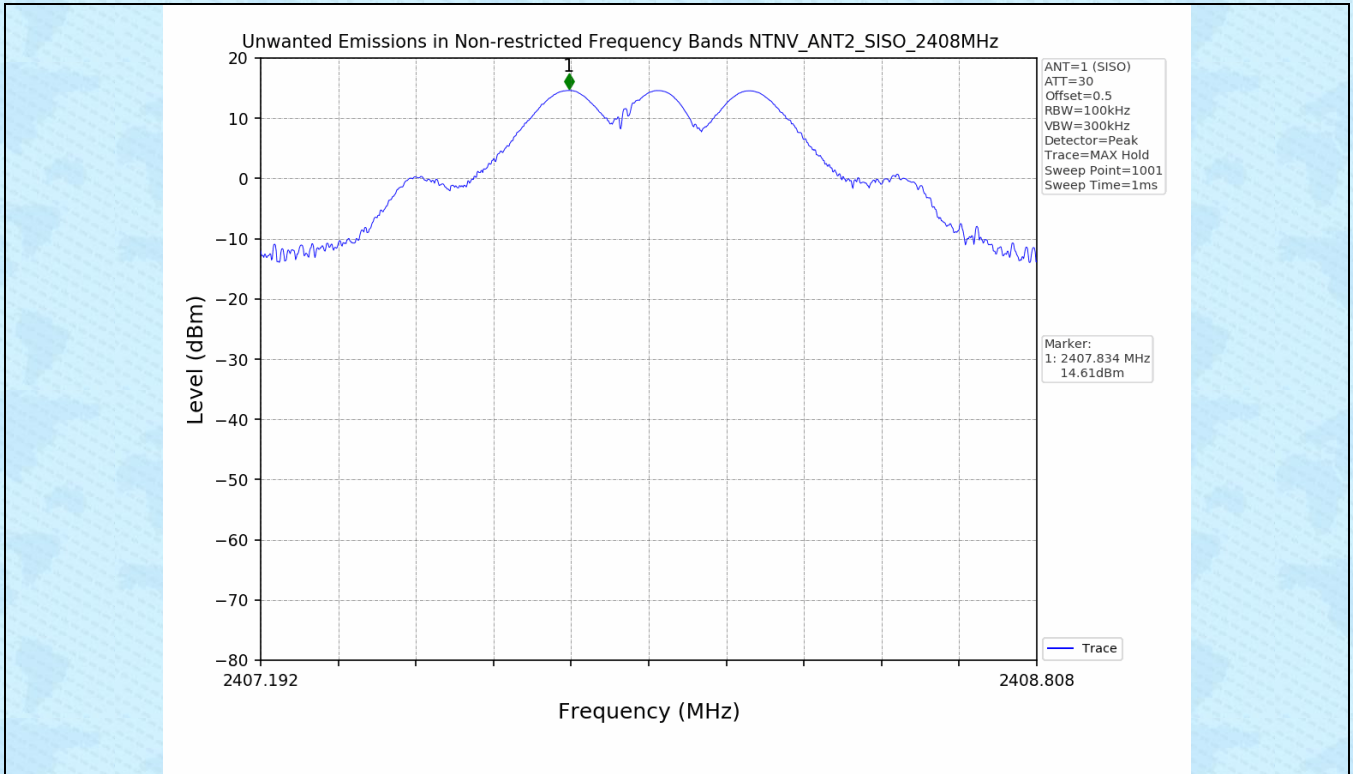


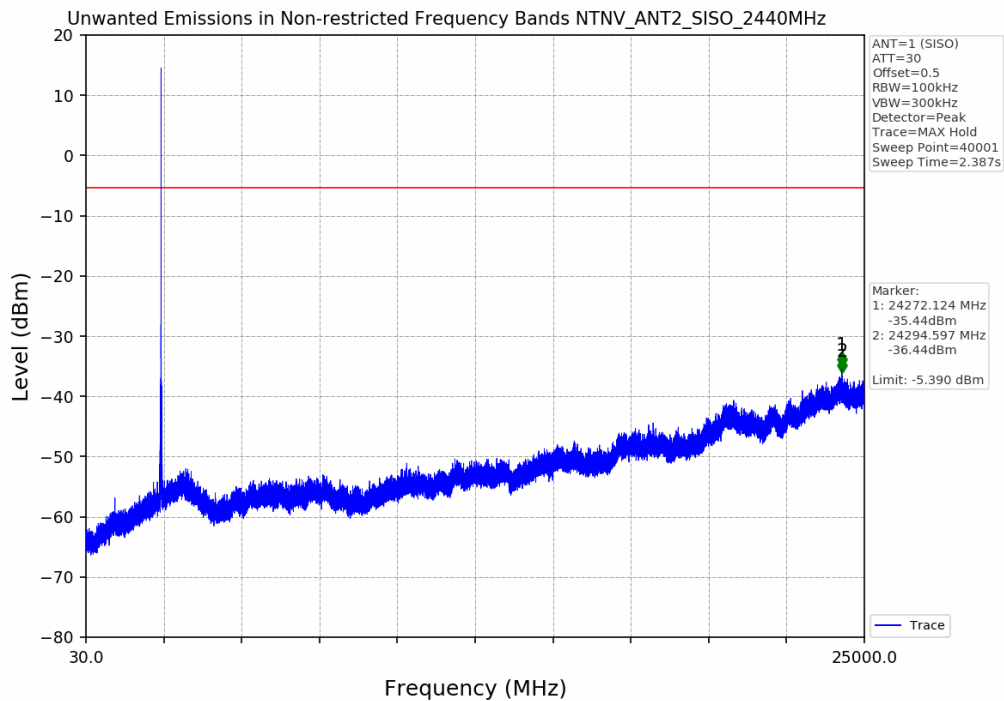
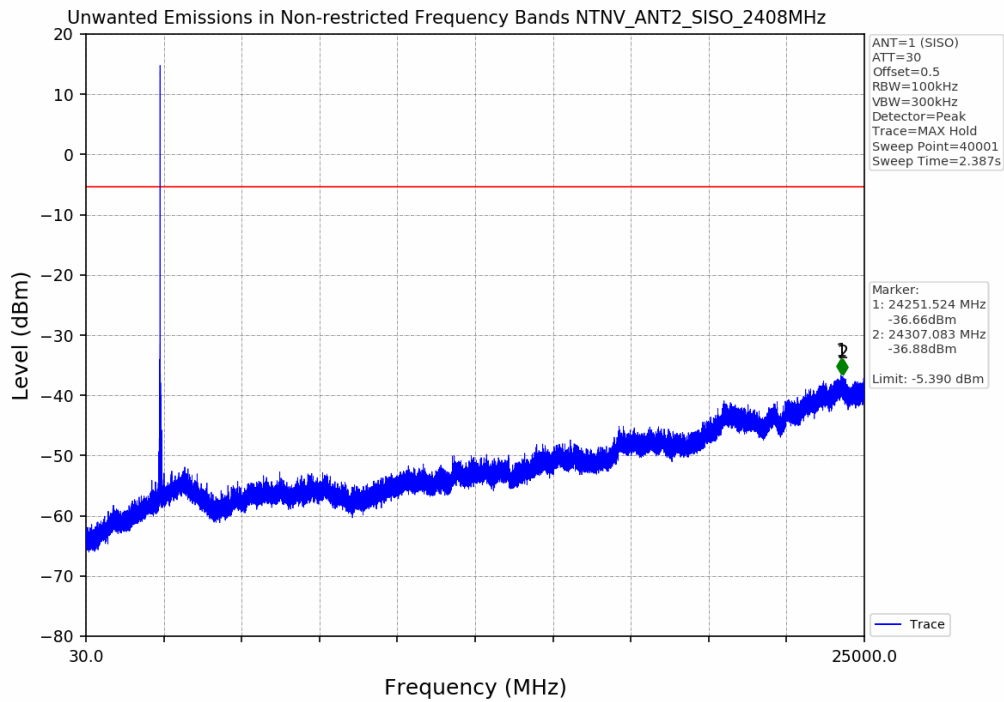


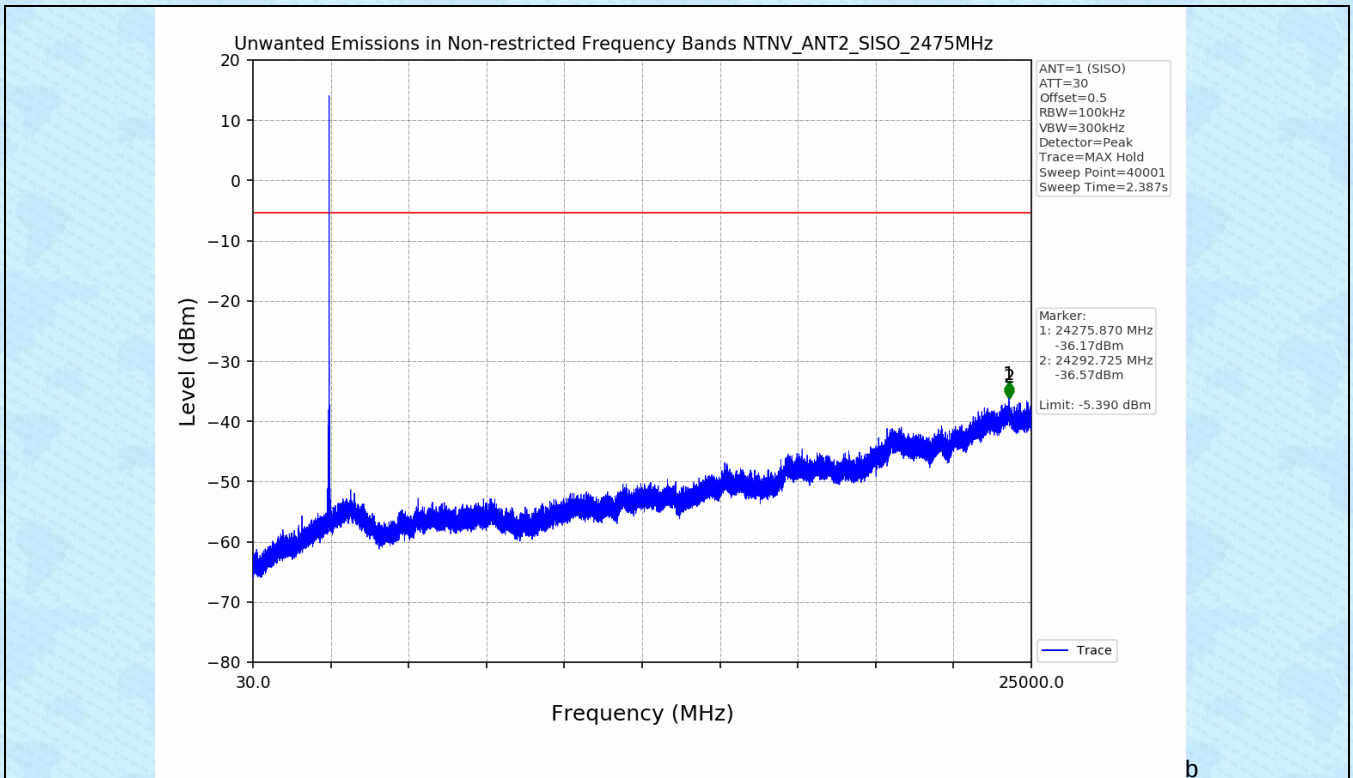
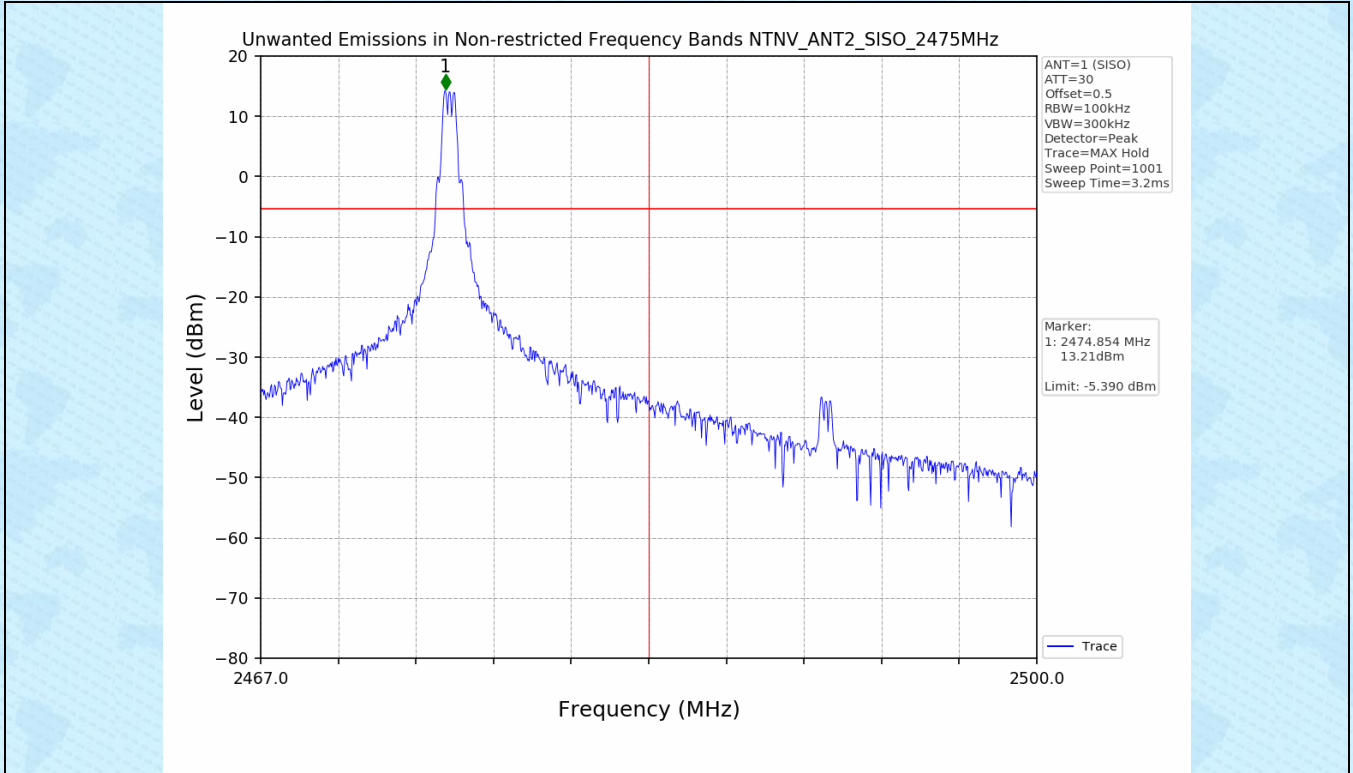




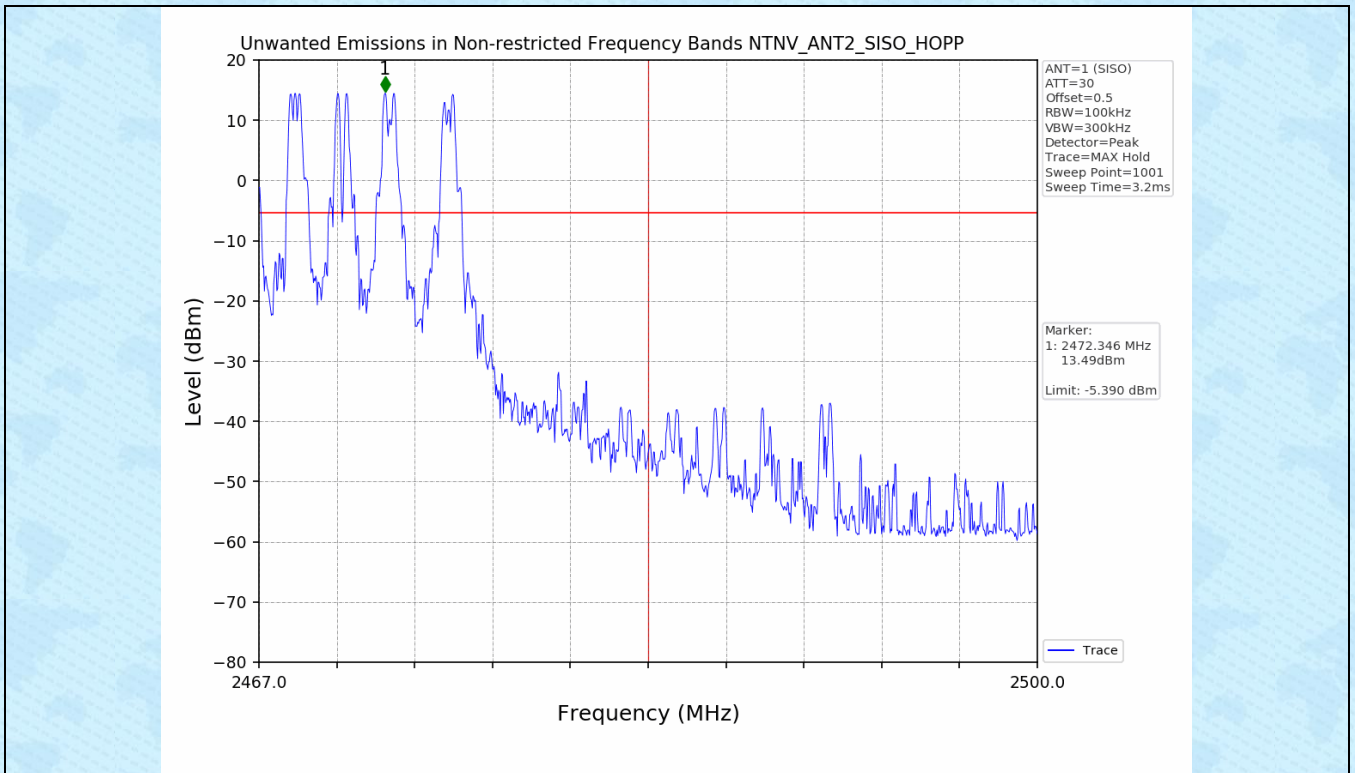
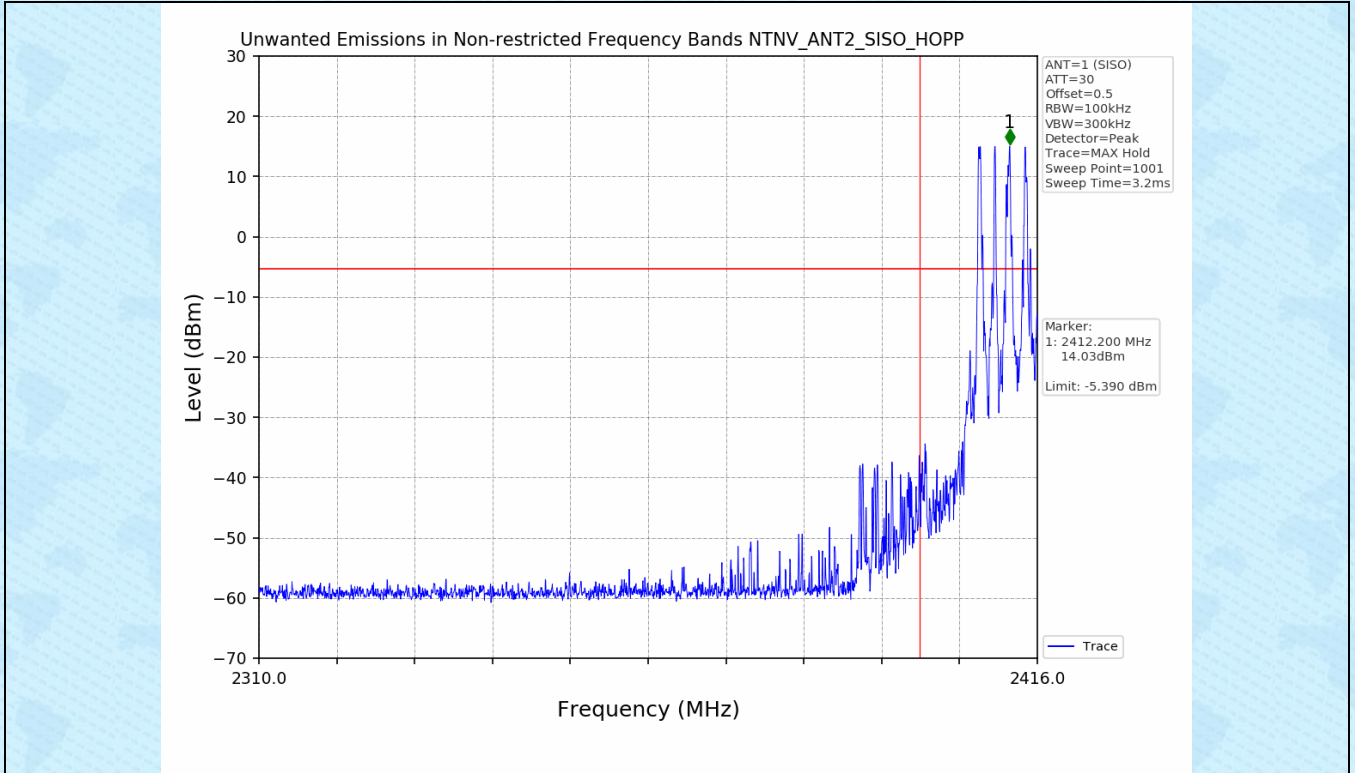
ANT 2:







b



---End---