

Appendix for 15.407

1. Bandwidth

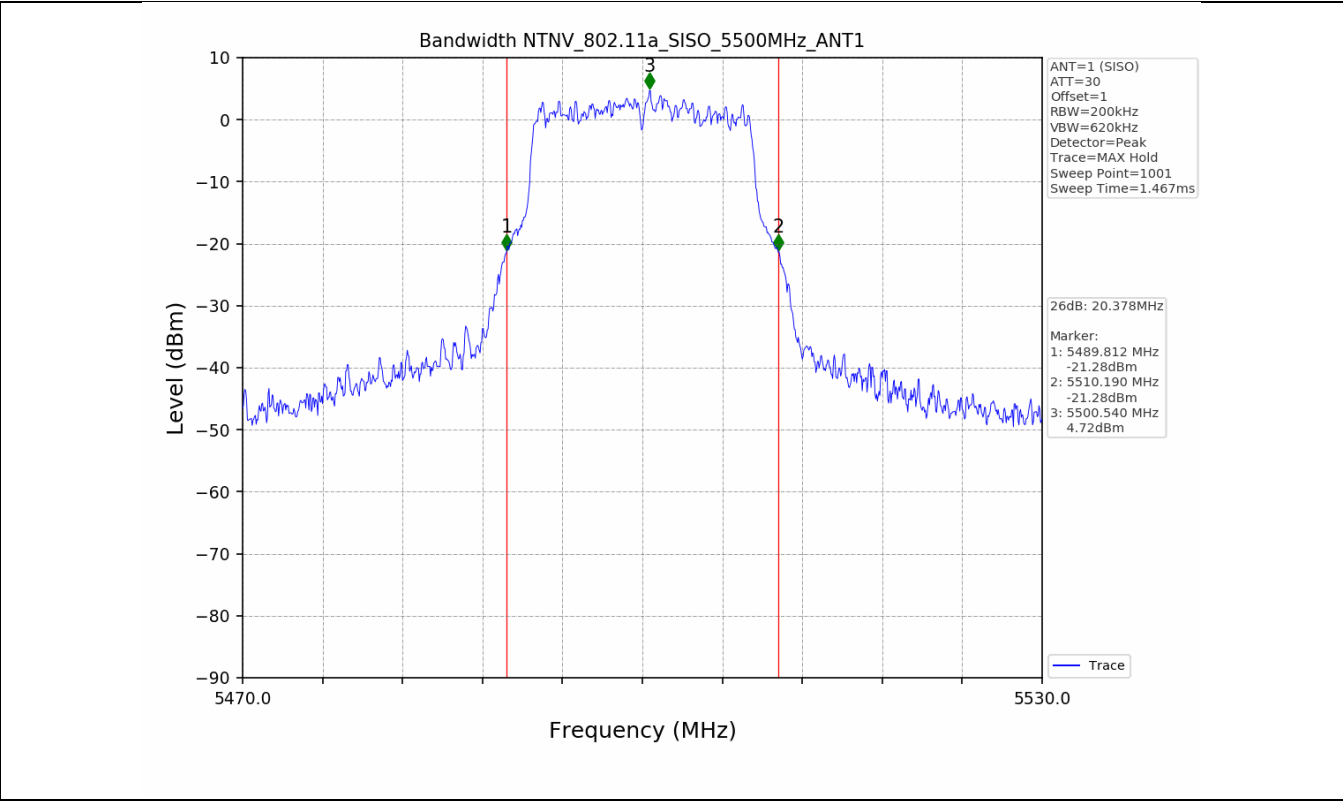
1.1 Test Result

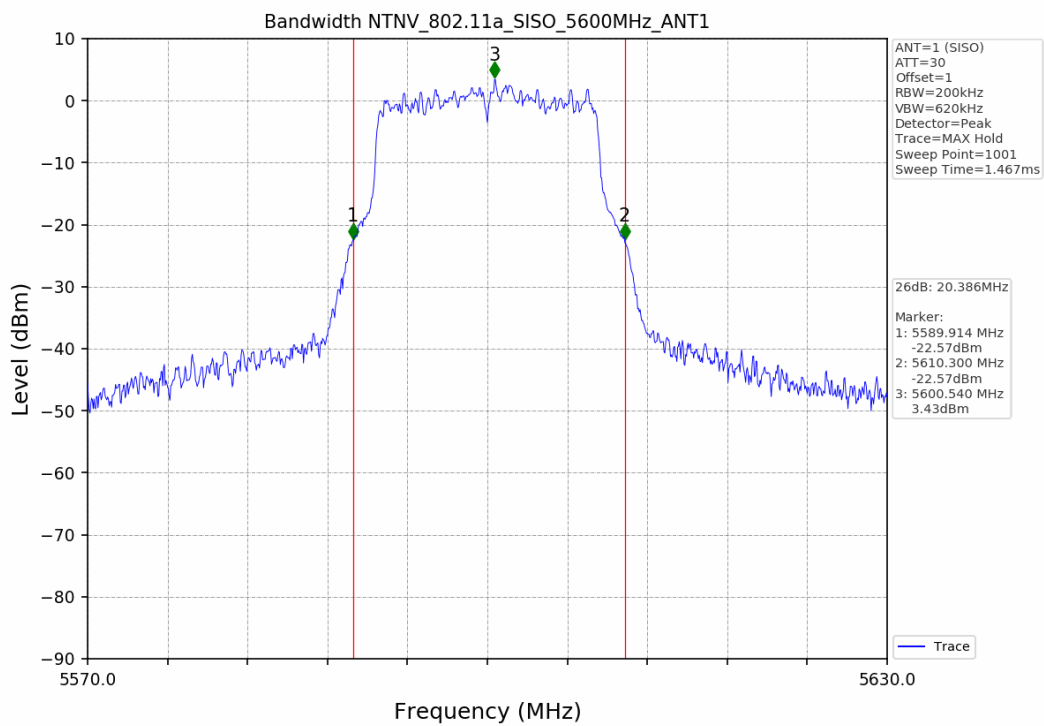
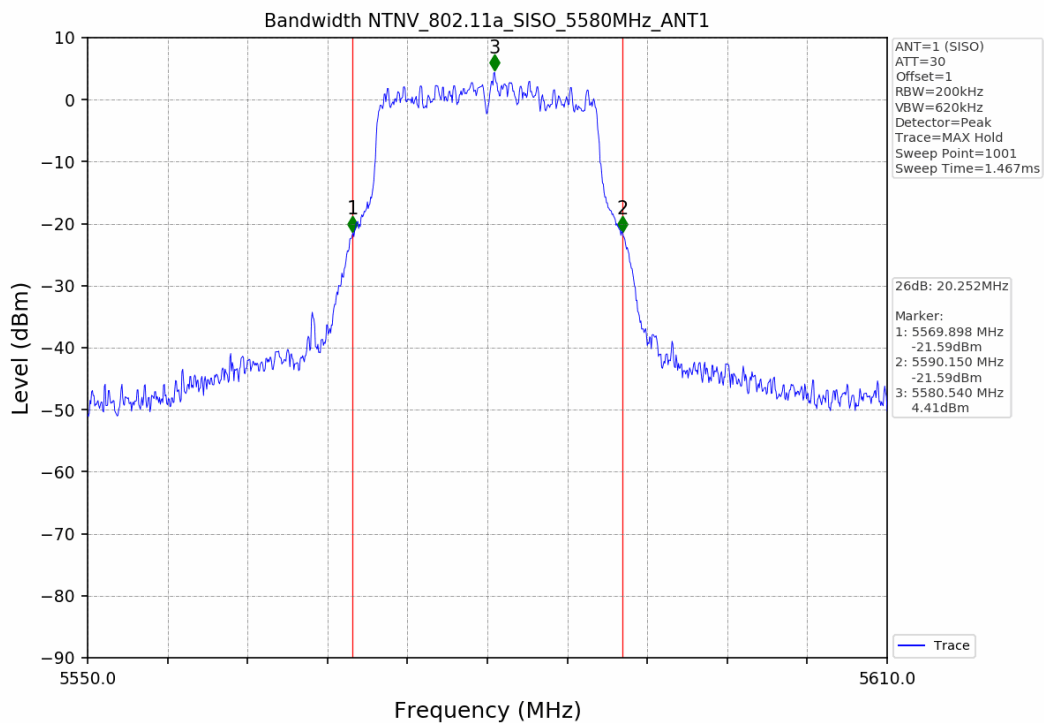
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5500	SISO	1	20.378	Only for Report Use	PASS
	5580	SISO	1	20.252	Only for Report Use	PASS
	5600	SISO	1	20.386	Only for Report Use	PASS
	5700	SISO	1	20.328	Only for Report Use	PASS
802.11n(HT20)	5500	SISO	1	21.001	Only for Report Use	PASS
	5580	SISO	1	21.124	Only for Report Use	PASS
	5600	SISO	1	21.211	Only for Report Use	PASS
	5700	SISO	1	21.141	Only for Report Use	PASS
802.11n(HT40)	5510	SISO	1	39.528	Only for Report Use	PASS
	5550	SISO	1	39.489	Only for Report Use	PASS
	5590	SISO	1	39.389	Only for Report Use	PASS
	5670	SISO	1	39.384	Only for Report Use	PASS
802.11ac(VHT20)	5500	SISO	1	20.754	Only for Report Use	PASS
	5580	SISO	1	21.129	Only for Report Use	PASS
	5600	SISO	1	20.870	Only for Report Use	PASS
	5700	SISO	1	20.941	Only for Report Use	PASS
802.11ac(VHT40)	5510	SISO	1	39.663	Only for Report Use	PASS
	5550	SISO	1	39.486	Only for Report Use	PASS
	5590	SISO	1	39.541	Only for Report Use	PASS
	5670	SISO	1	39.418	Only for Report Use	PASS
802.11ac(VHT80)	5530	SISO	1	80.600	Only for Report Use	PASS
	5610	SISO	1	81.174	Only for Report Use	PASS

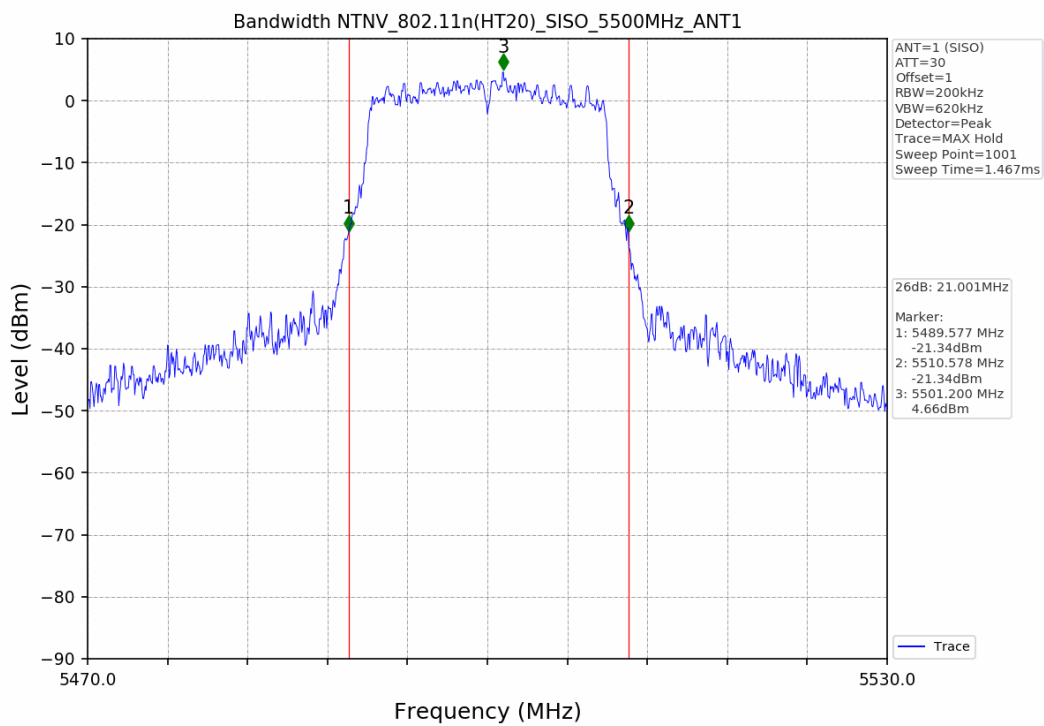
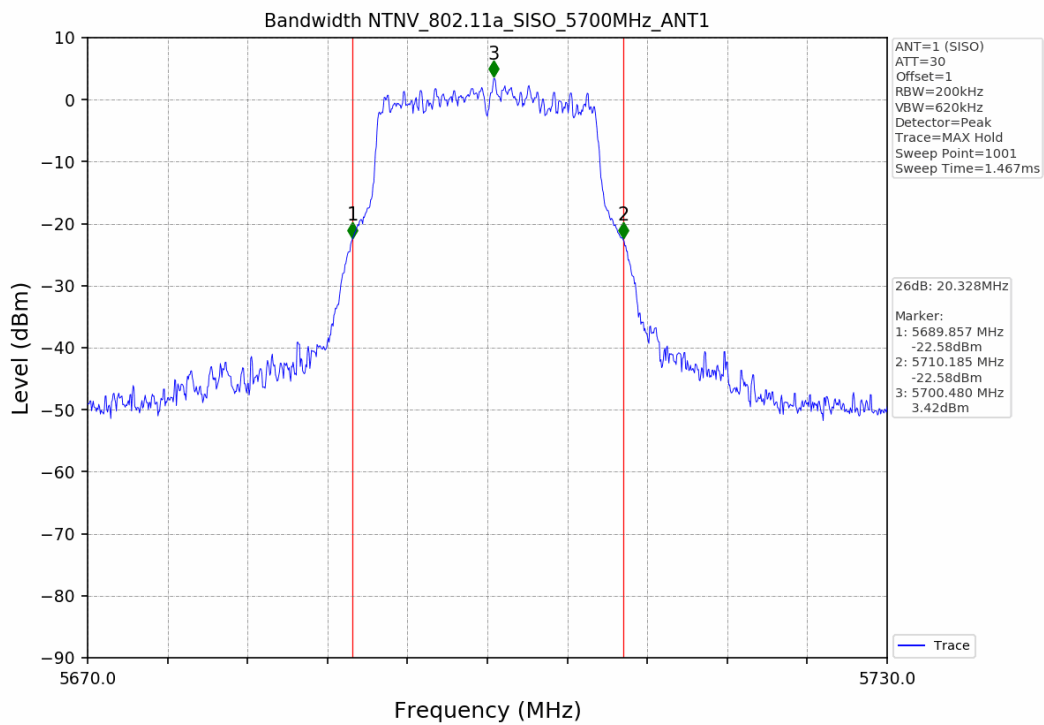
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5500	SISO	1	16.583	Only for Report Use
	5580	SISO	1	16.566	Only for Report Use
	5600	SISO	1	16.617	Only for Report Use
	5700	SISO	1	16.594	Only for Report Use
802.11n(HT20)	5500	SISO	1	17.859	Only for Report Use
	5580	SISO	1	17.884	Only for Report Use
	5600	SISO	1	17.848	Only for Report Use
	5700	SISO	1	17.883	Only for Report Use
802.11n(HT40)	5510	SISO	1	36.611	Only for Report Use
	5550	SISO	1	36.572	Only for Report Use
	5590	SISO	1	36.478	Only for Report Use
	5670	SISO	1	36.502	Only for Report Use
802.11ac(VHT20)	5500	SISO	1	17.840	Only for Report Use
	5580	SISO	1	17.828	Only for Report Use
	5600	SISO	1	17.824	Only for Report Use
	5700	SISO	1	17.789	Only for Report Use
802.11ac(VHT40)	5510	SISO	1	36.672	Only for Report Use
	5550	SISO	1	36.641	Only for Report Use
	5590	SISO	1	36.478	Only for Report Use
	5670	SISO	1	36.698	Only for Report Use

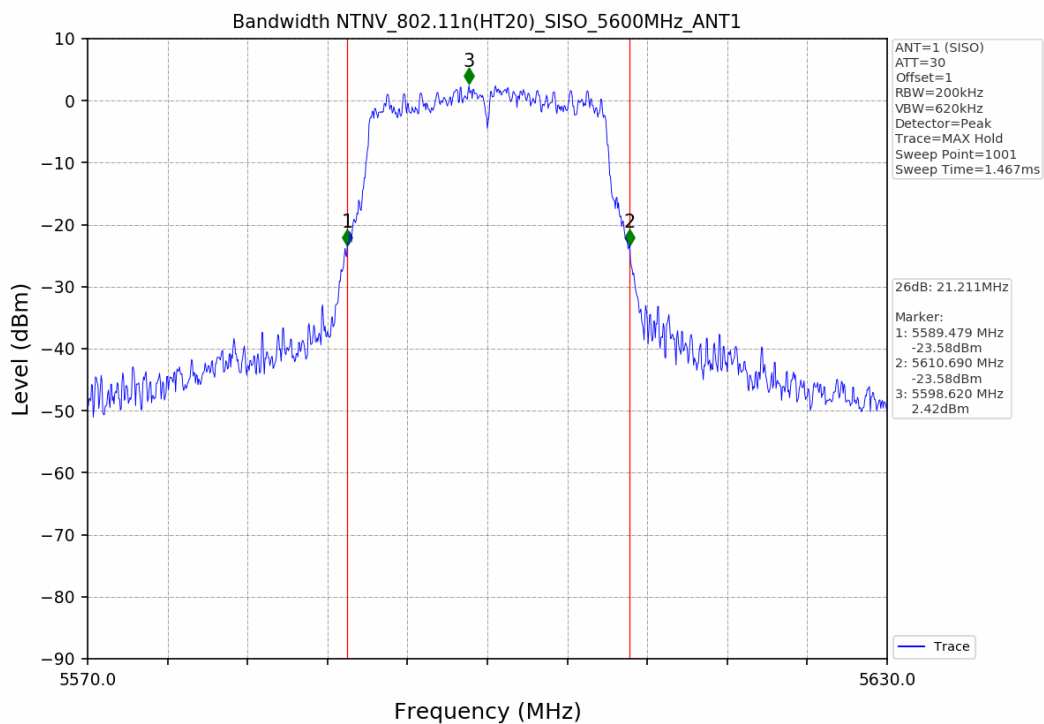
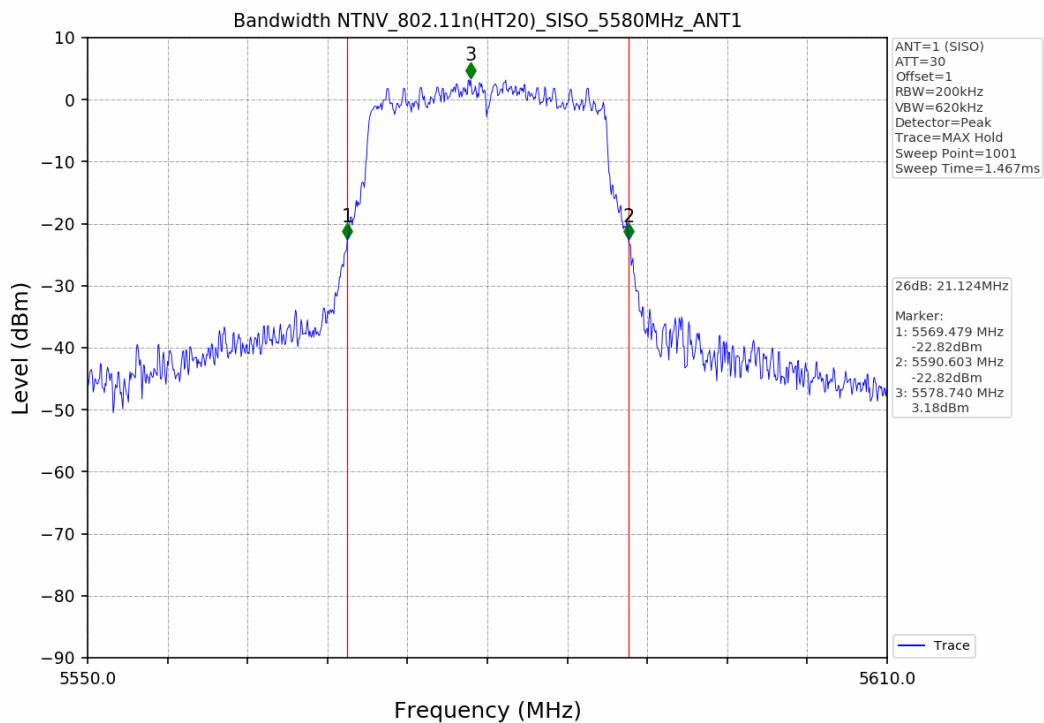
802.11ac(VHT80)	5530	SISO	1	75.702	Only for Report Use
	5610	SISO	1	75.741	Only for Report Use

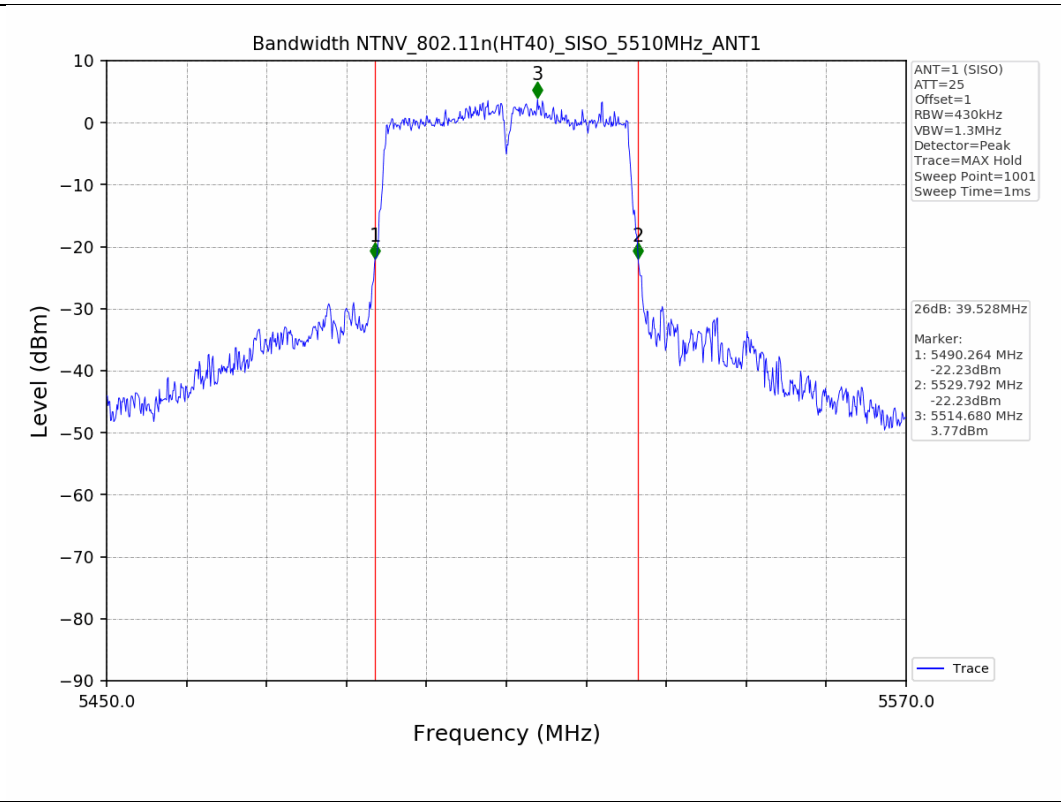
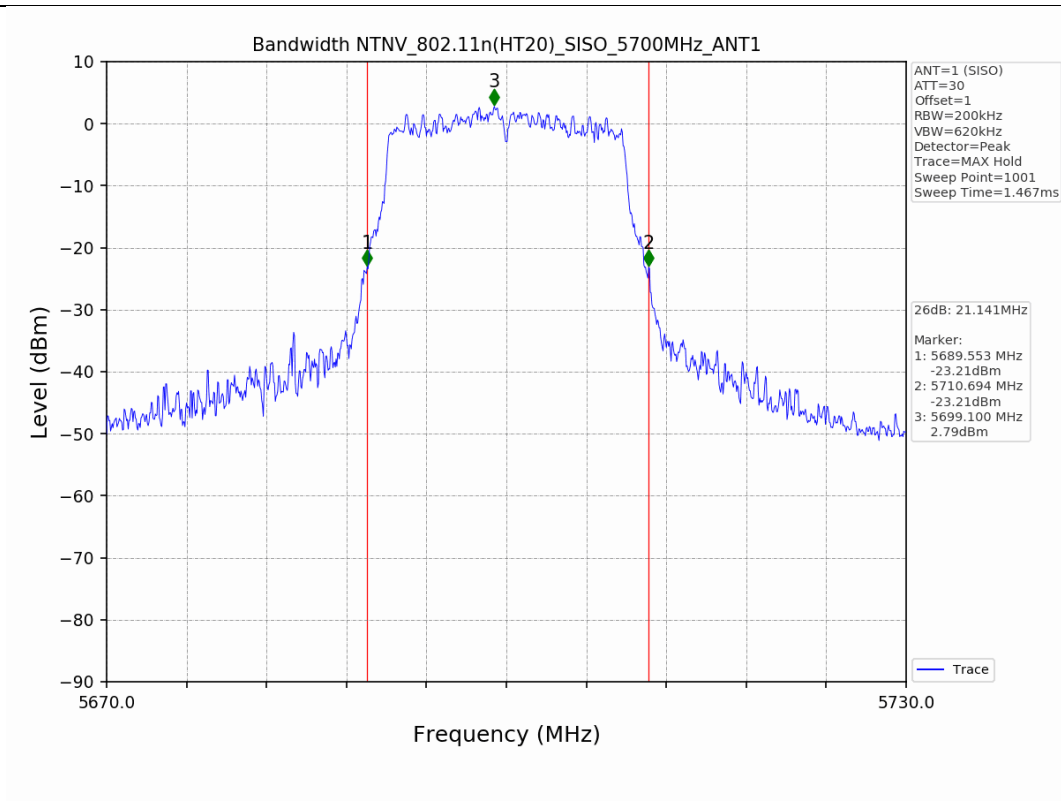
1.2 Test Graph - Emission Bandwidth

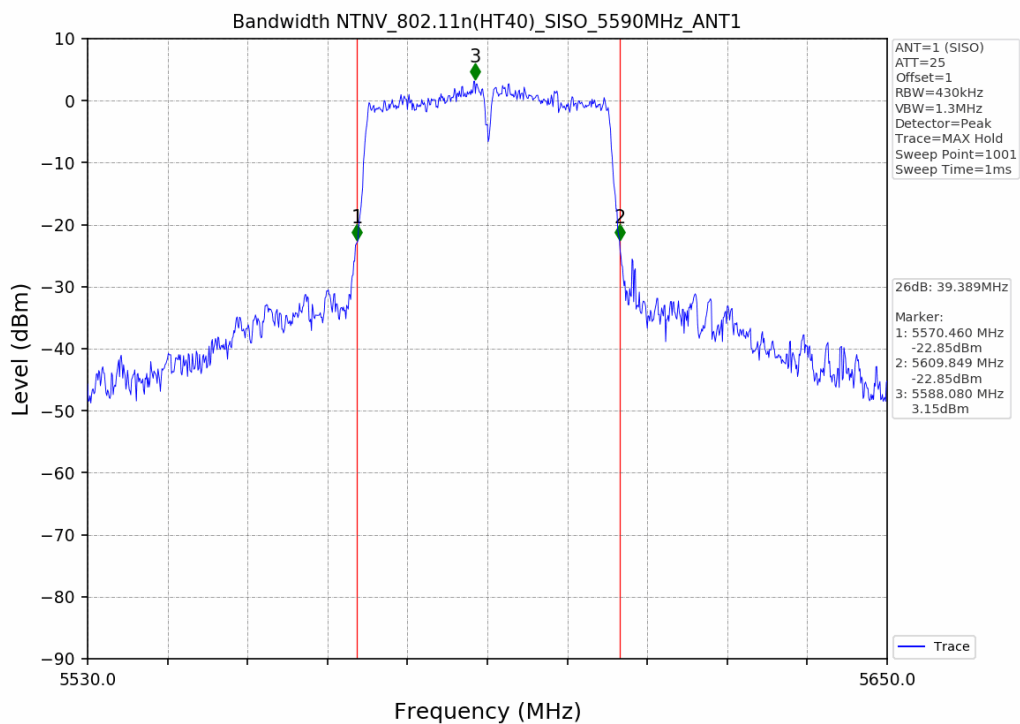
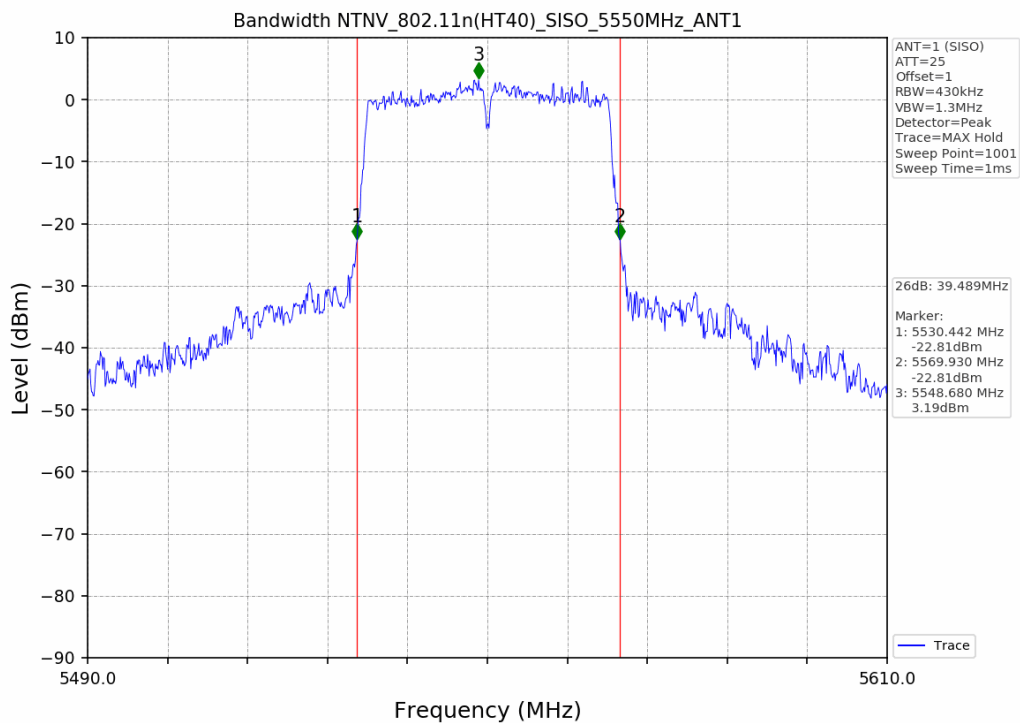


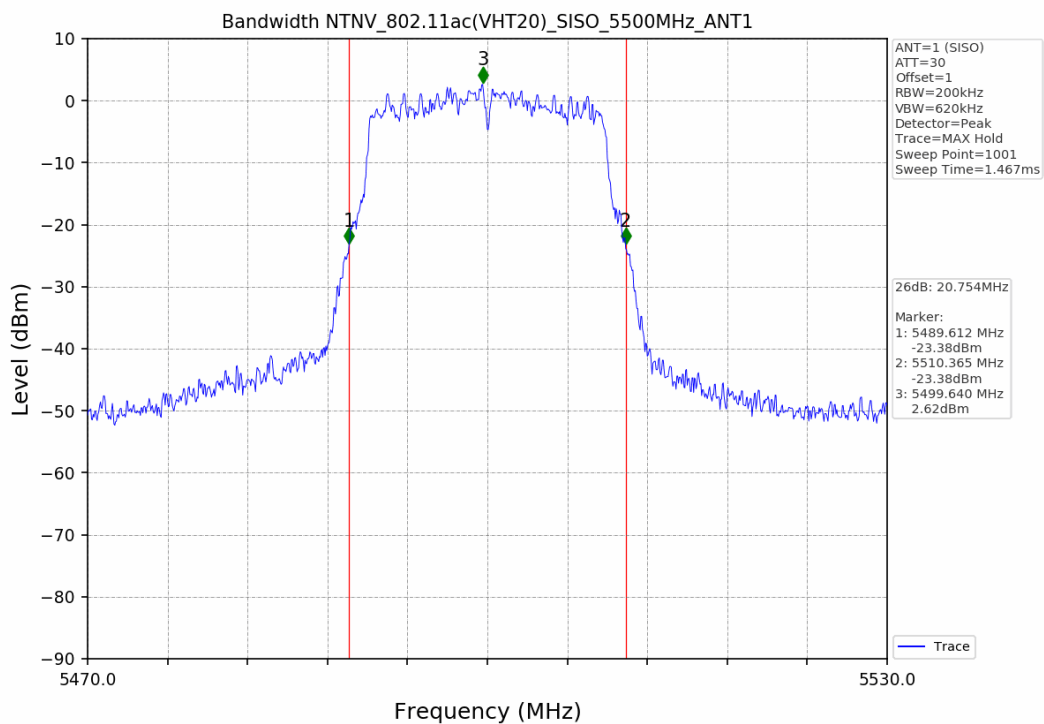
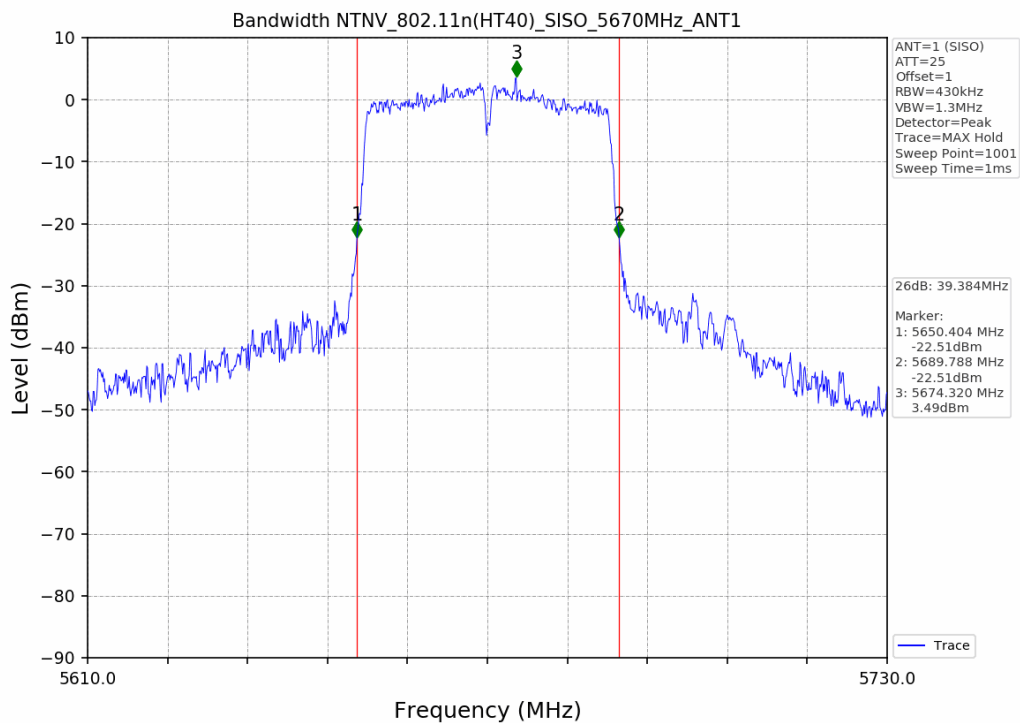


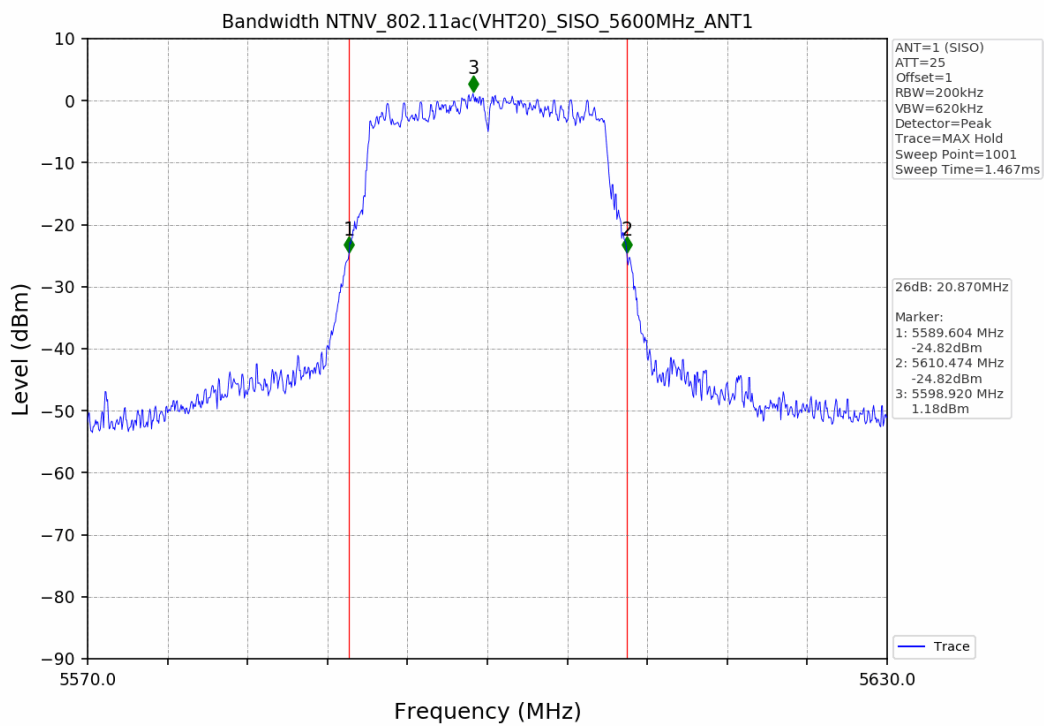
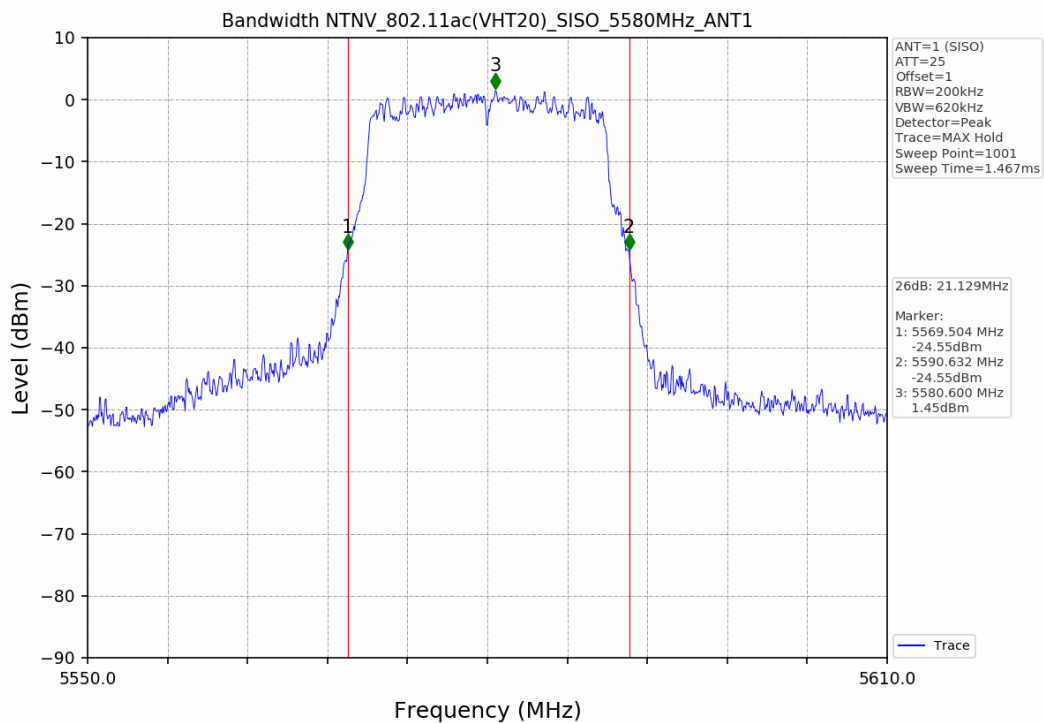


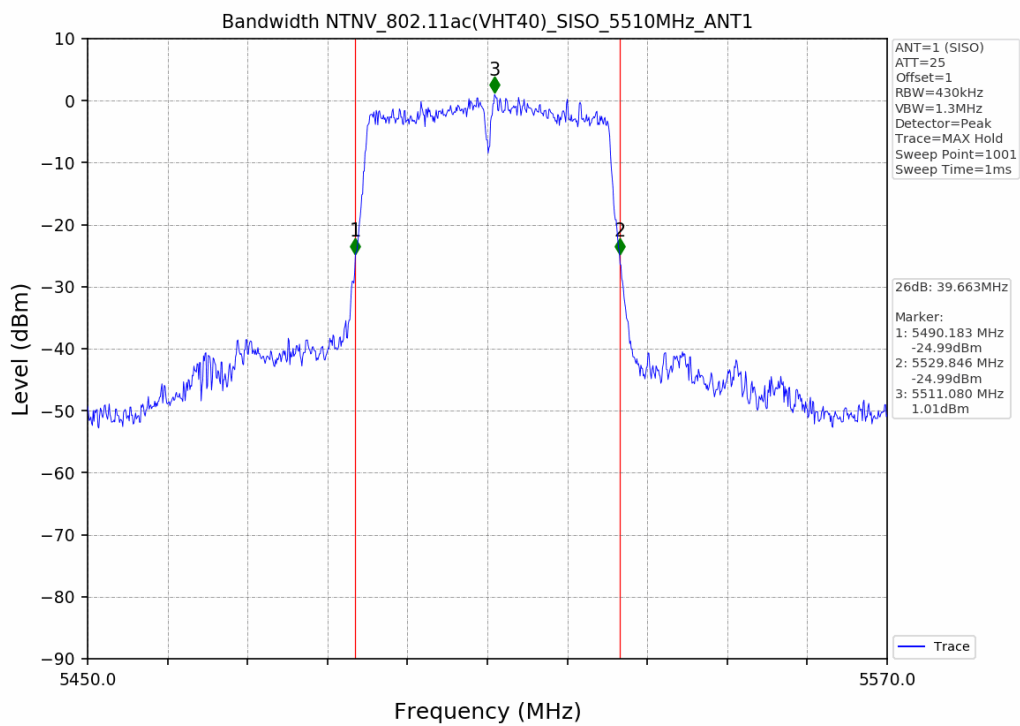
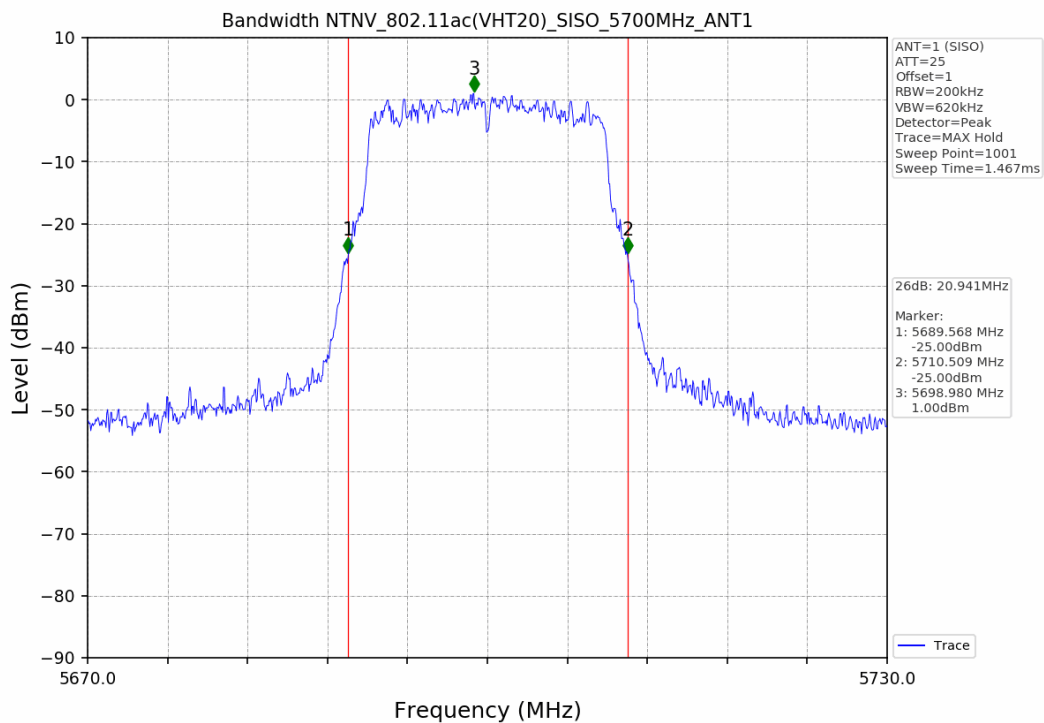


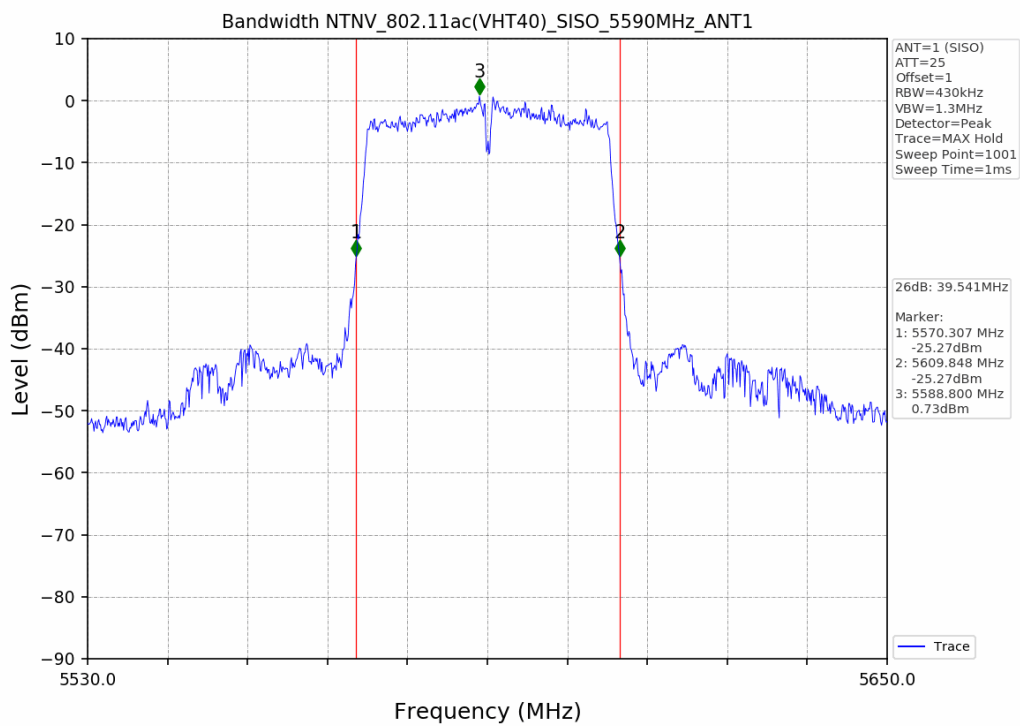
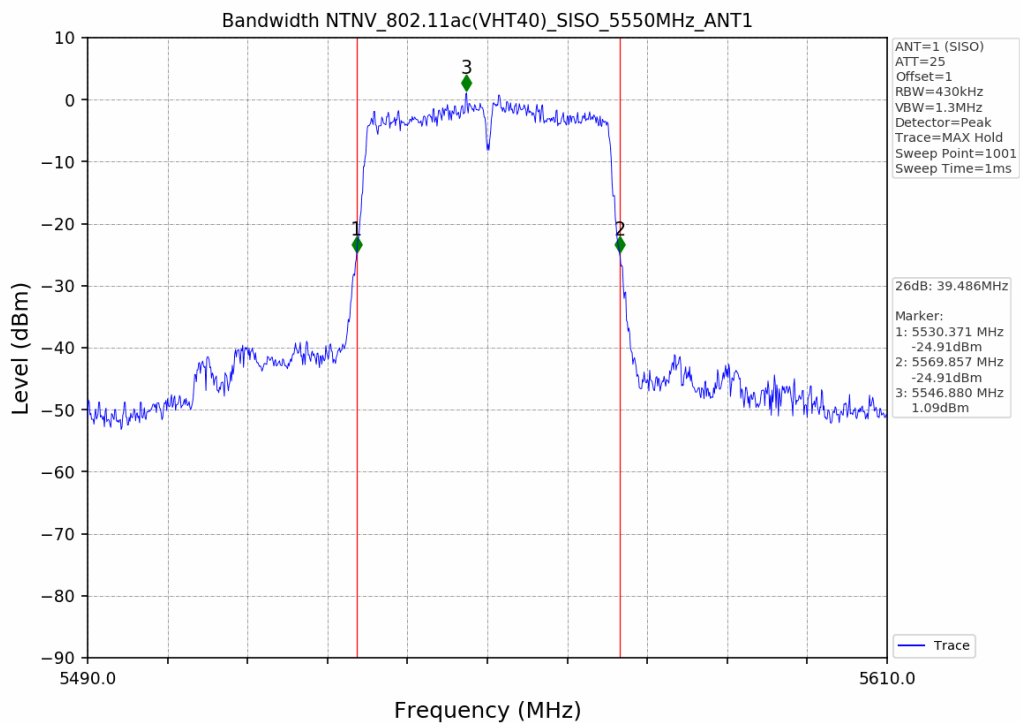


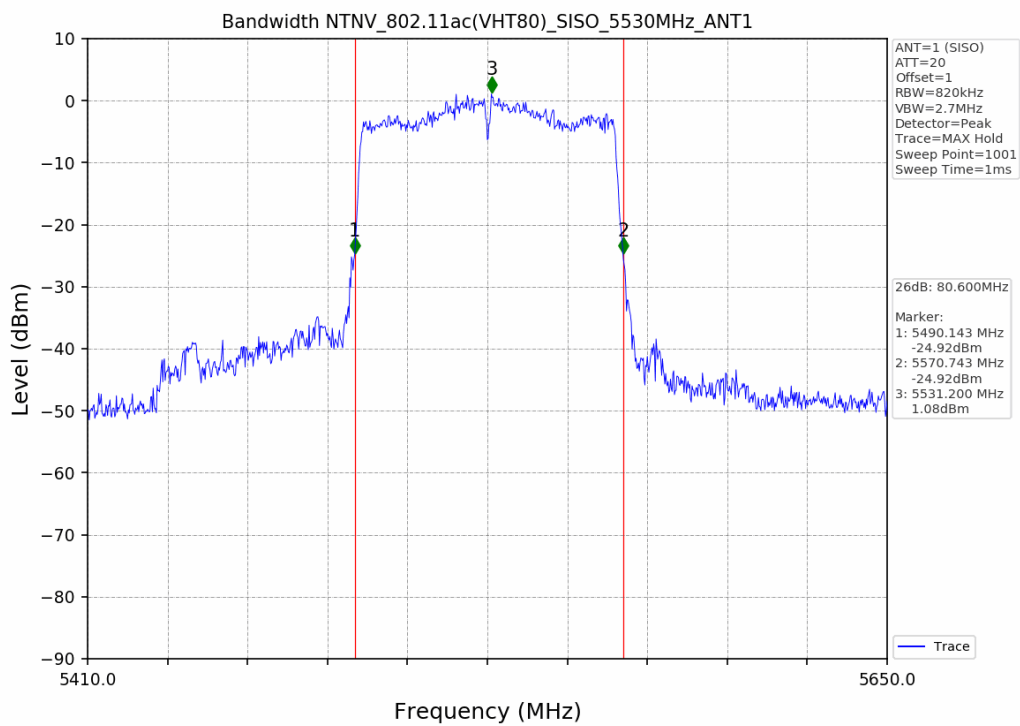
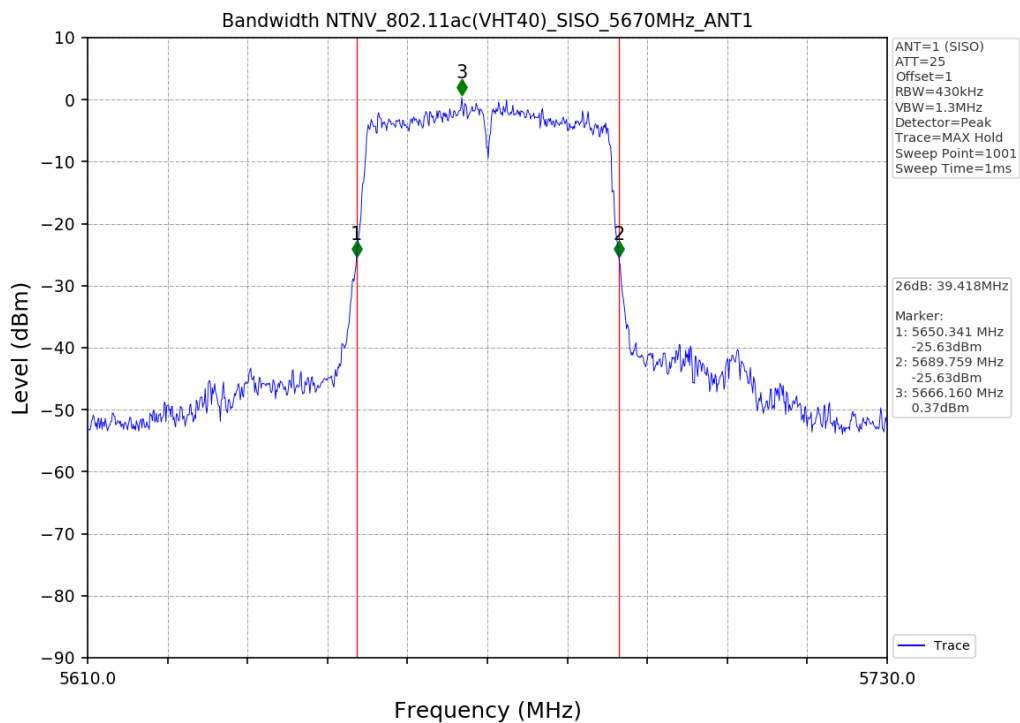


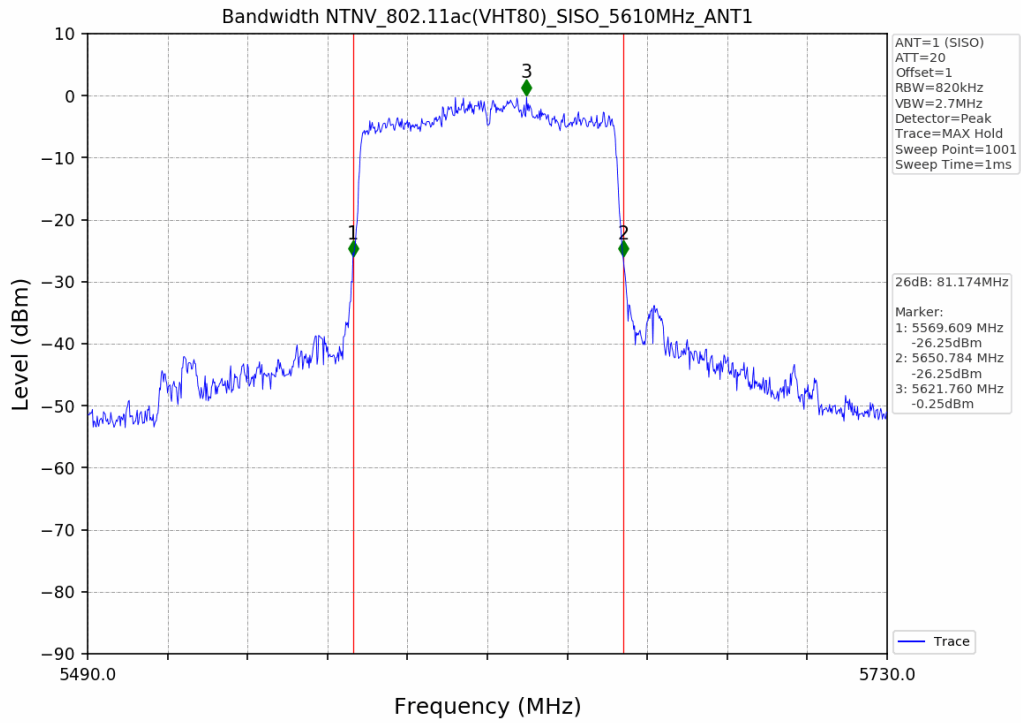




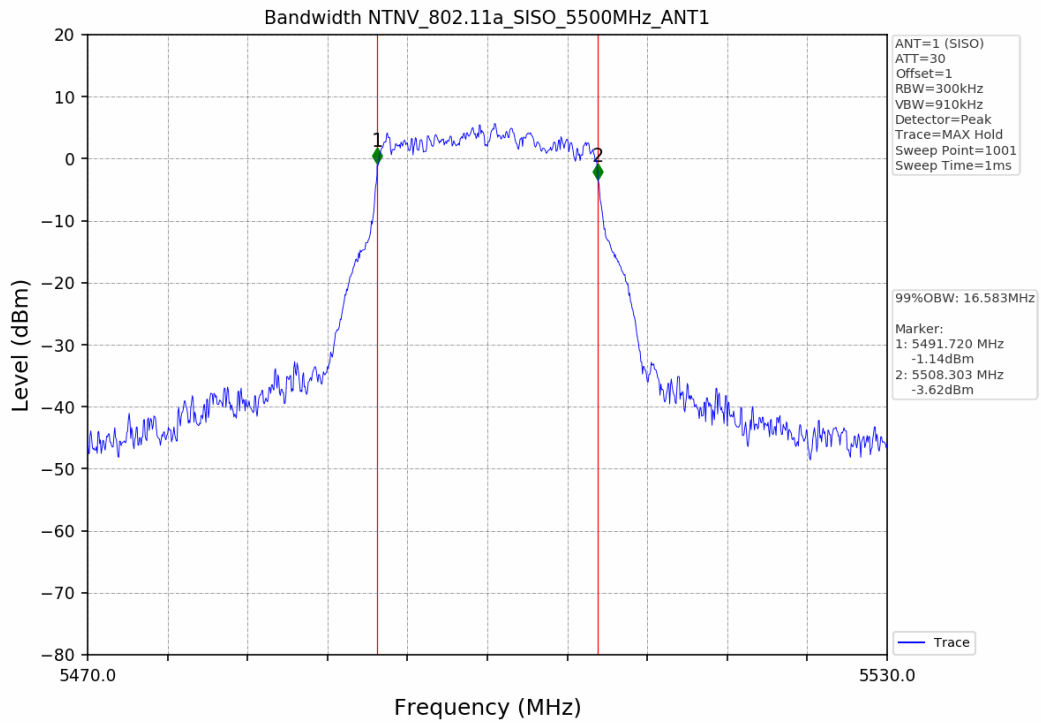


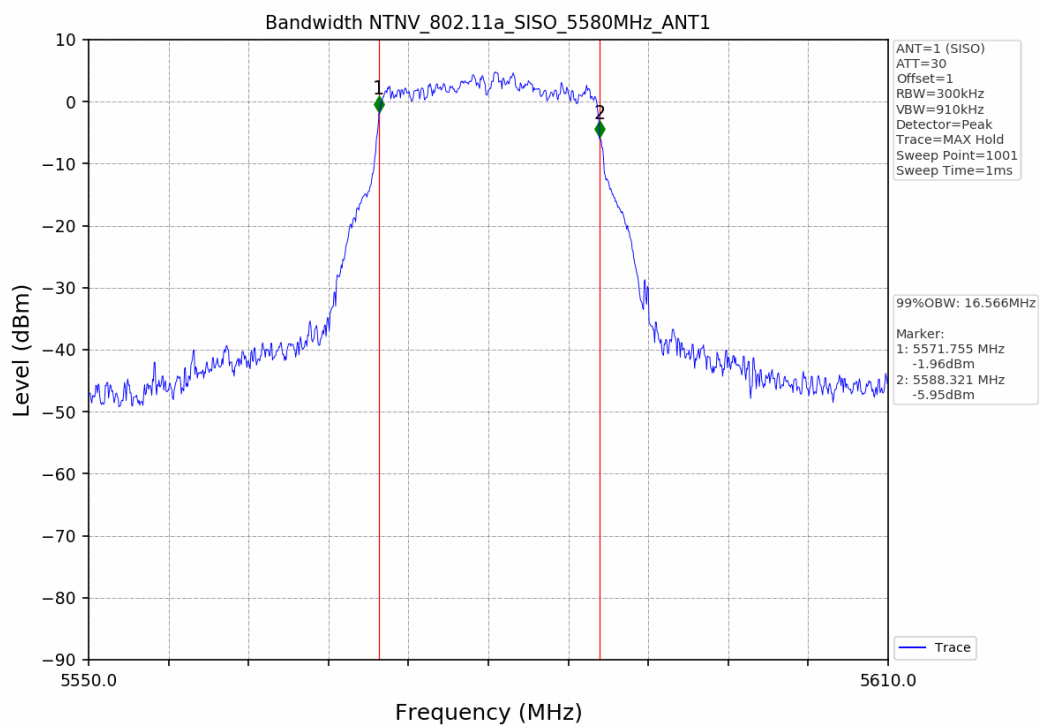


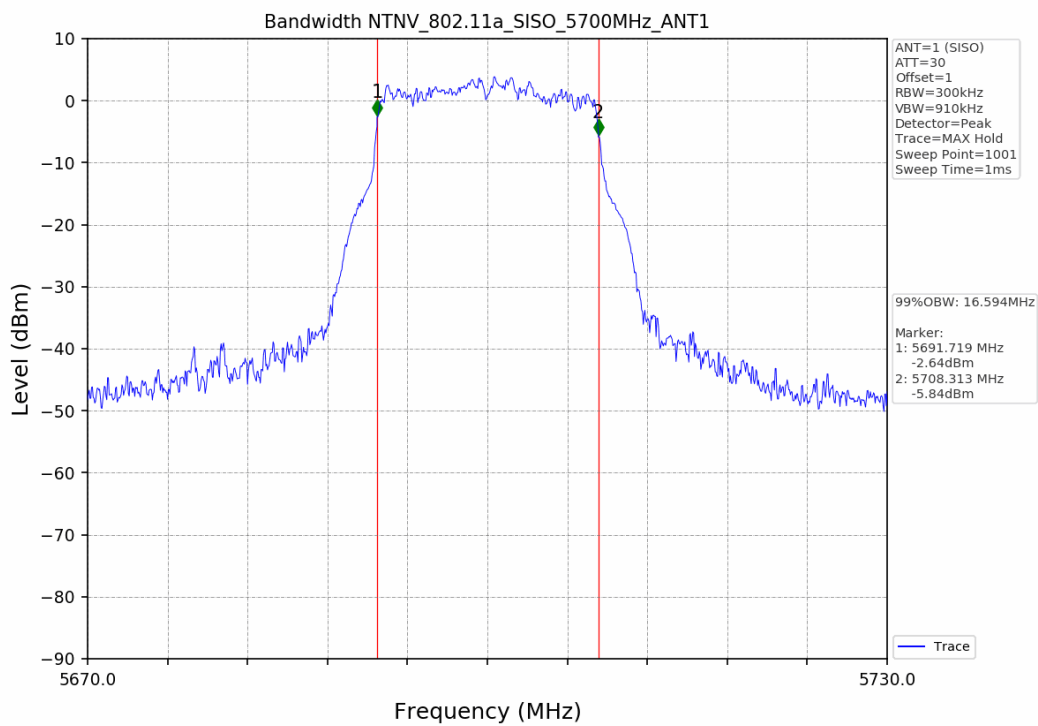
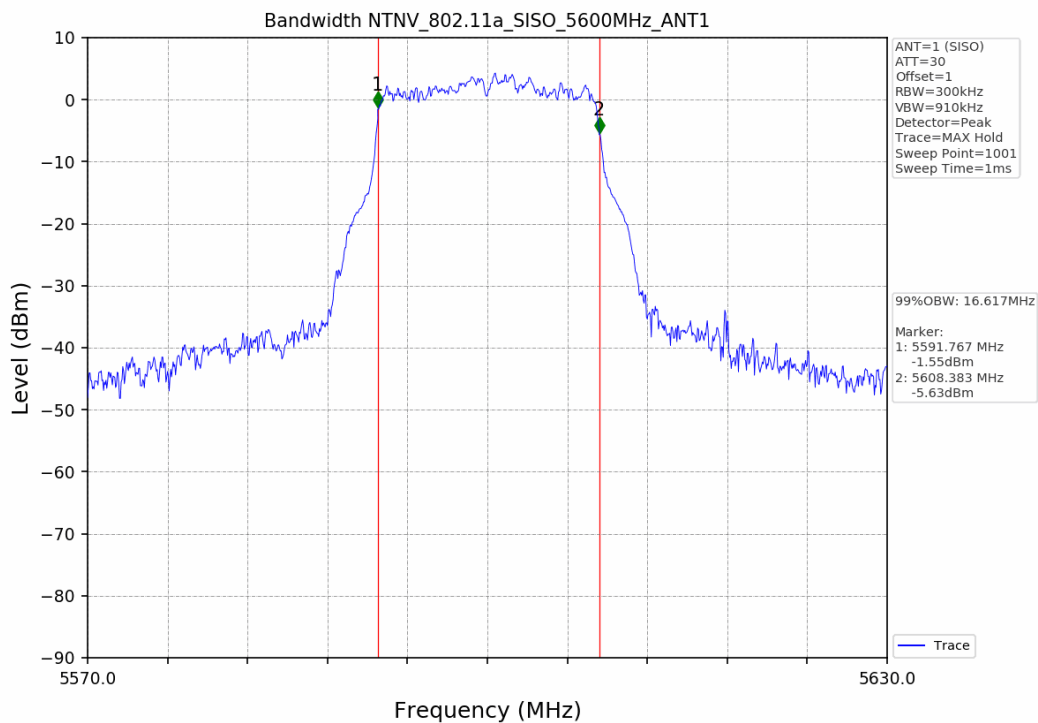


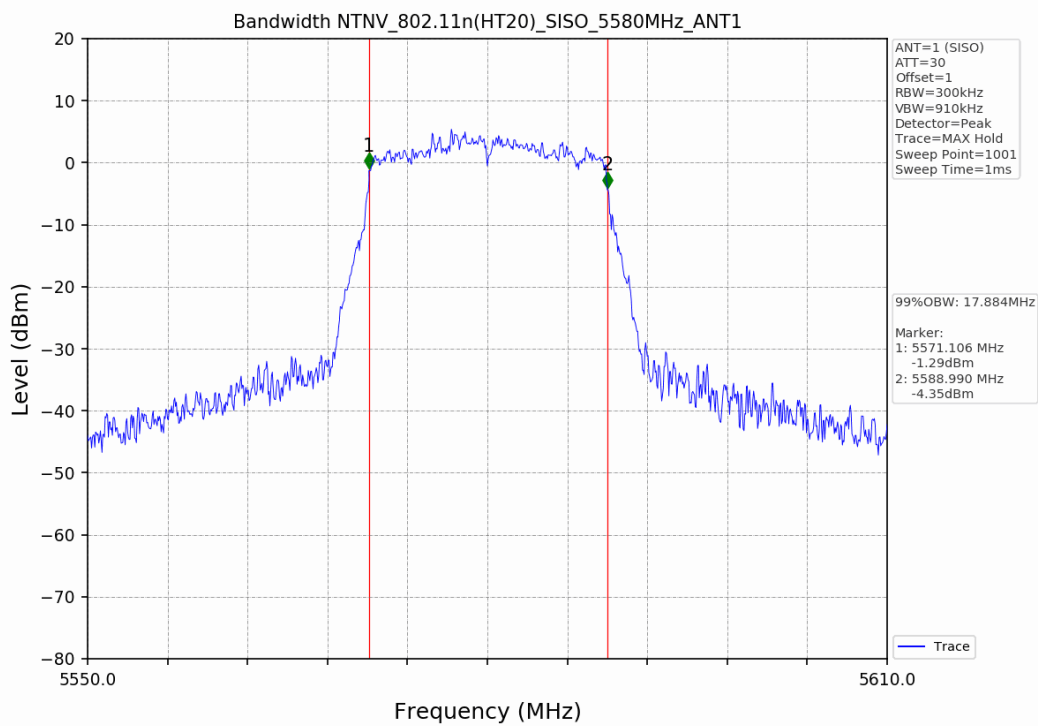
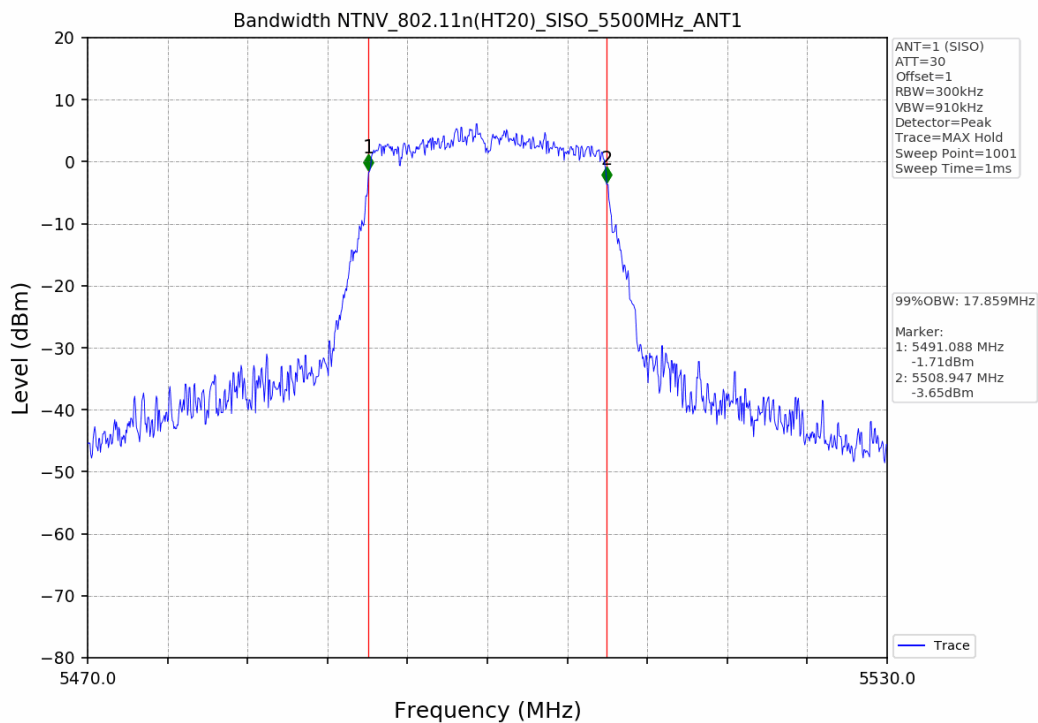


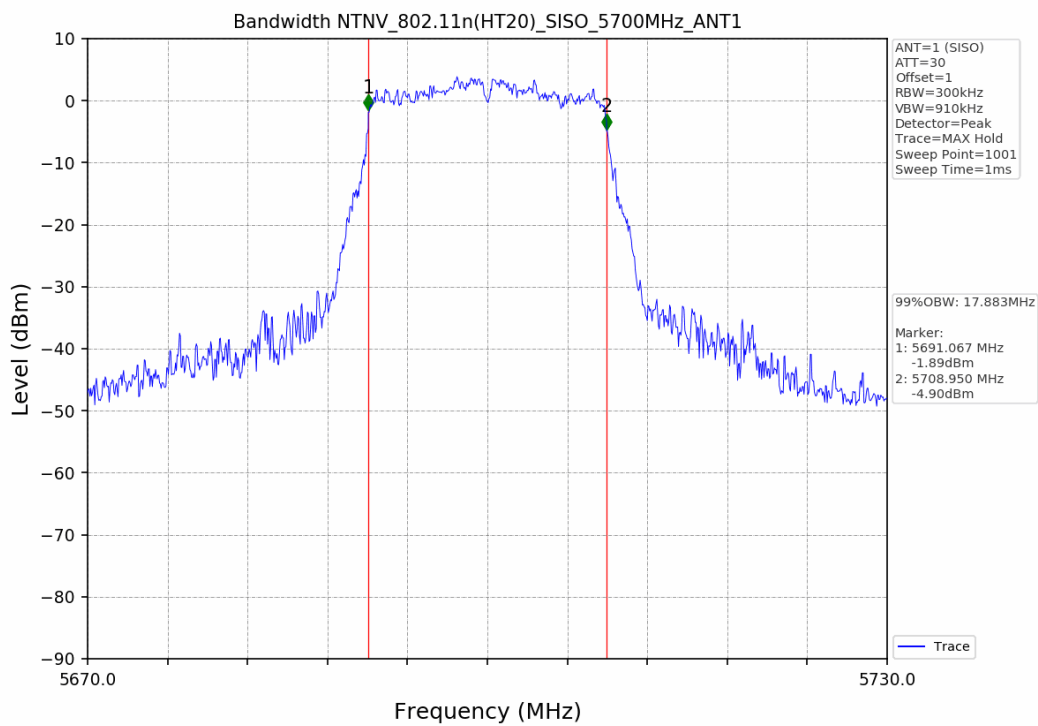
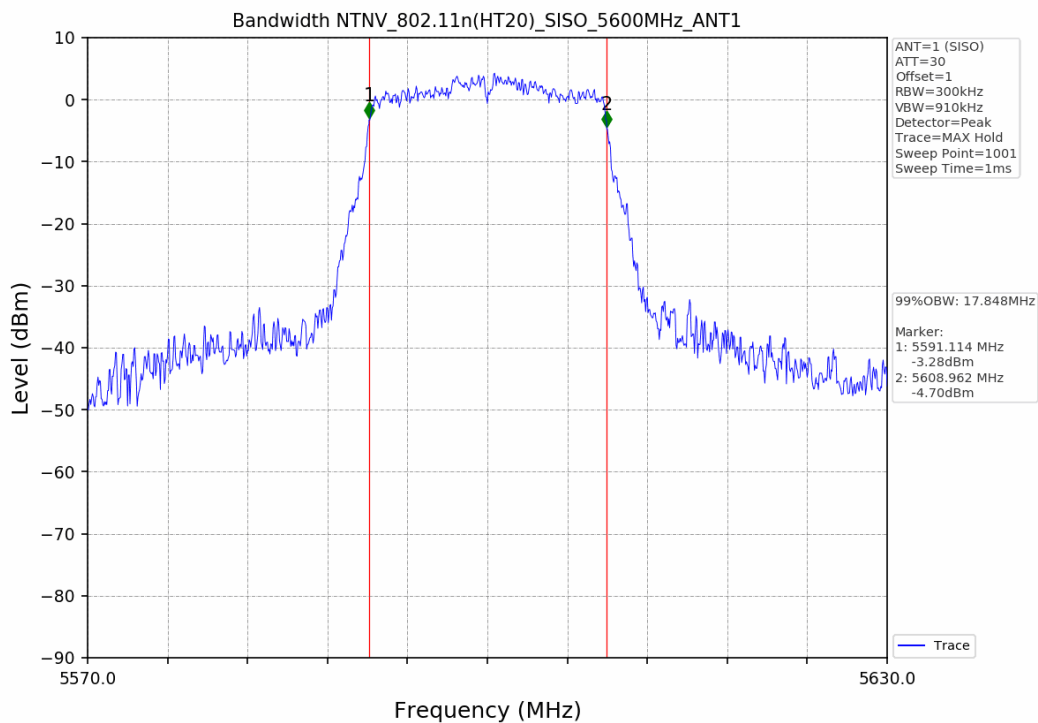
1.3 Test Graph - 99% Occupied Bandwidth

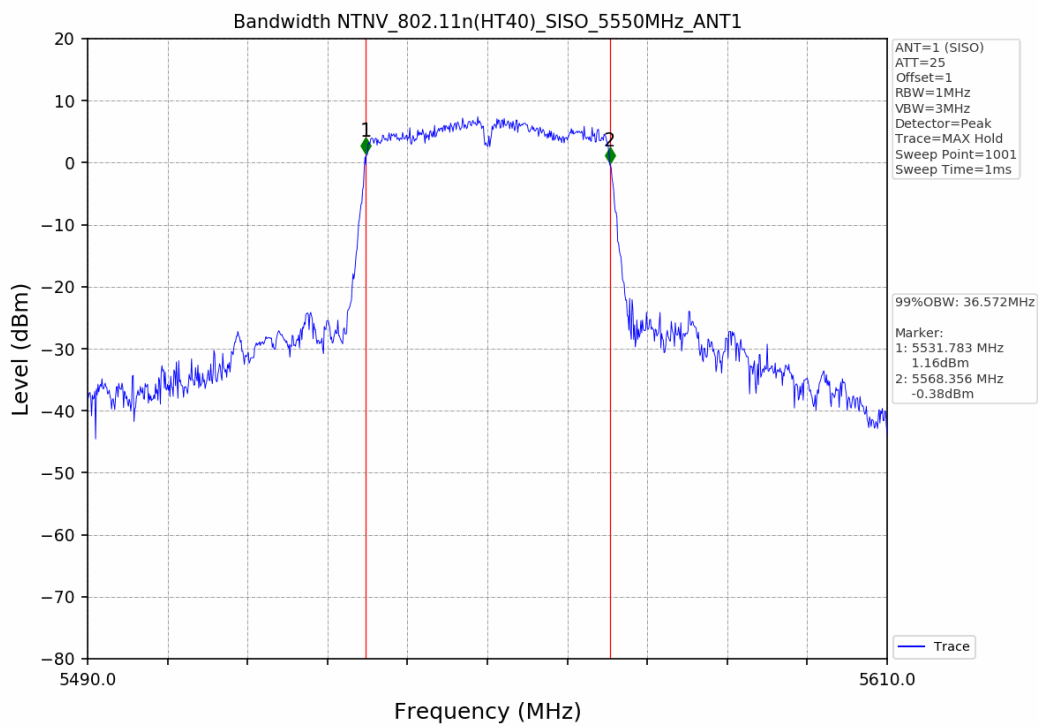
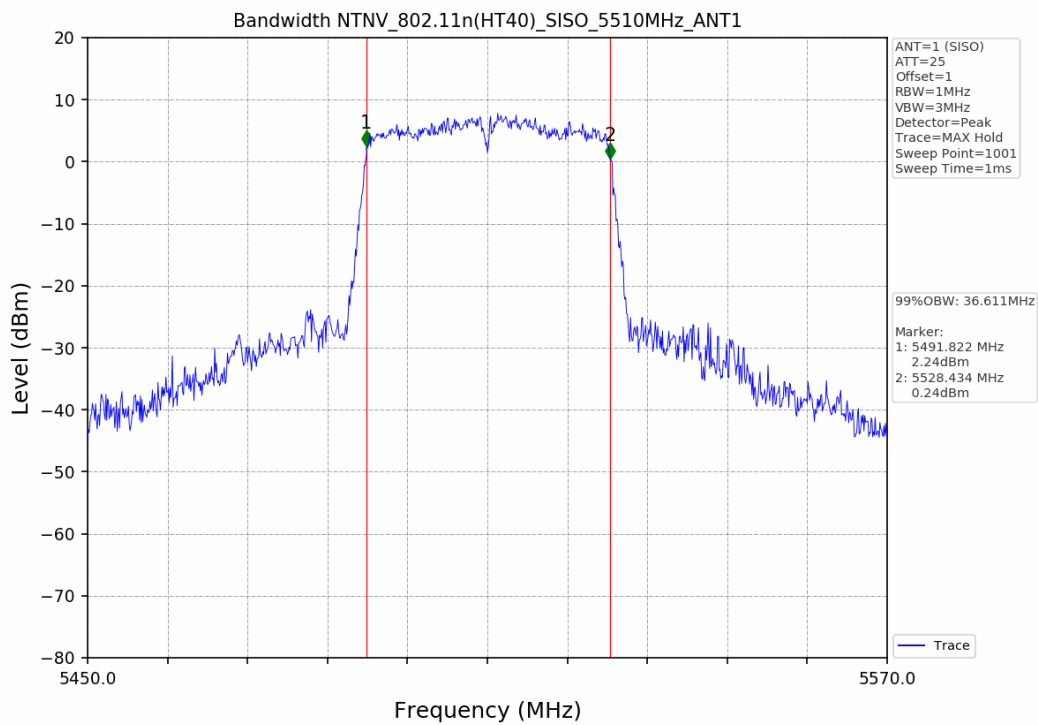


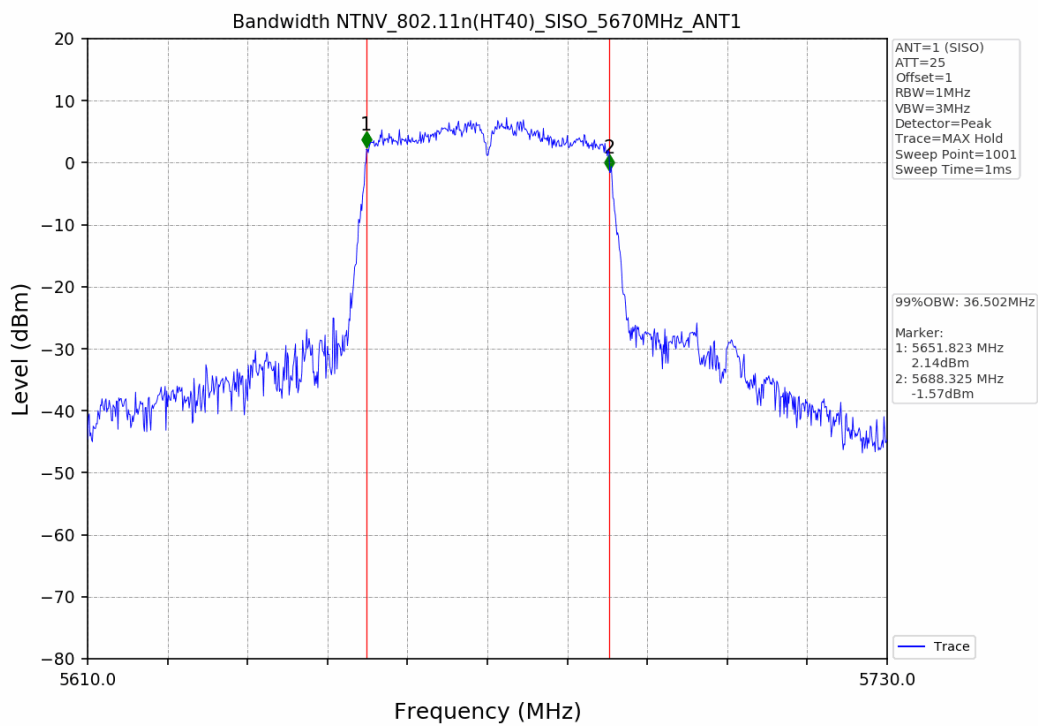
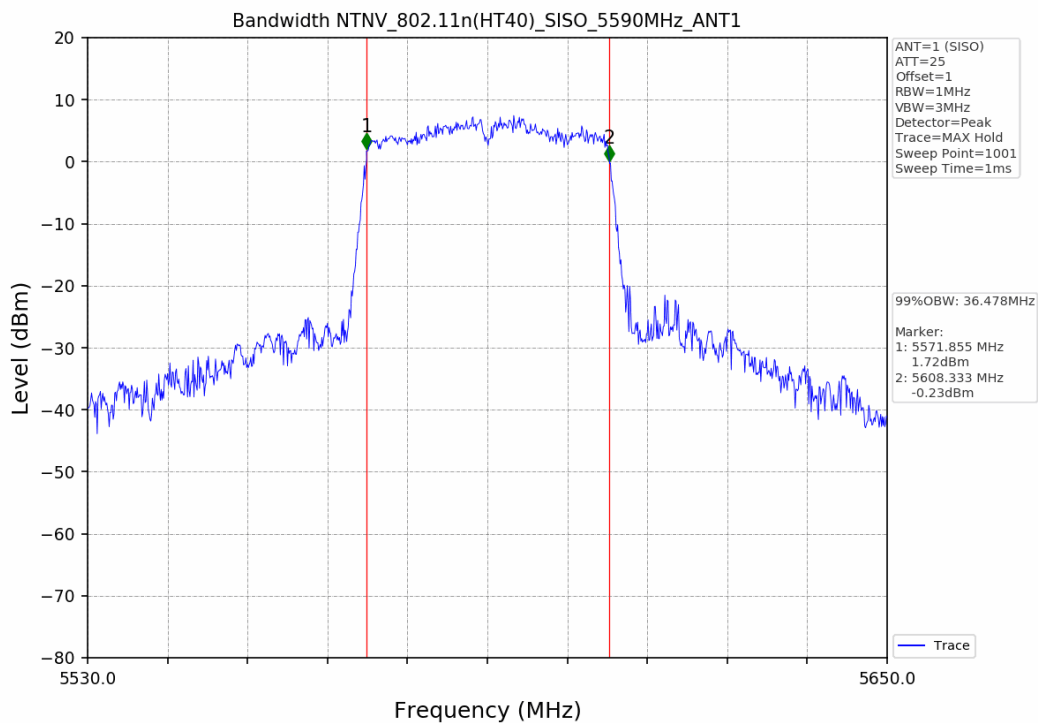


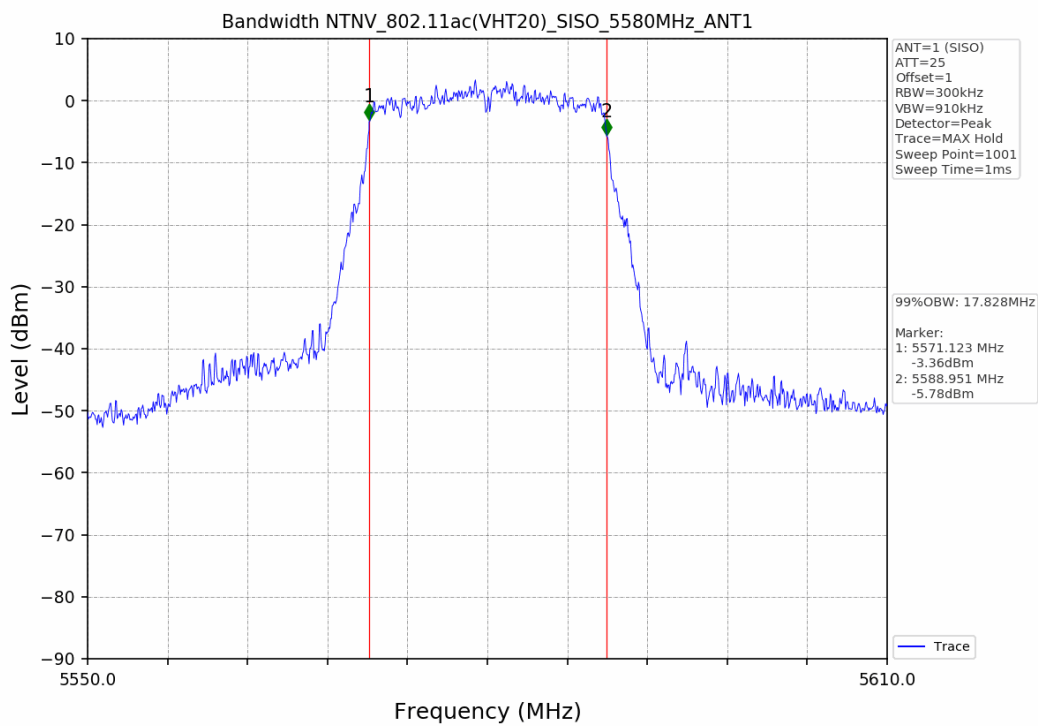
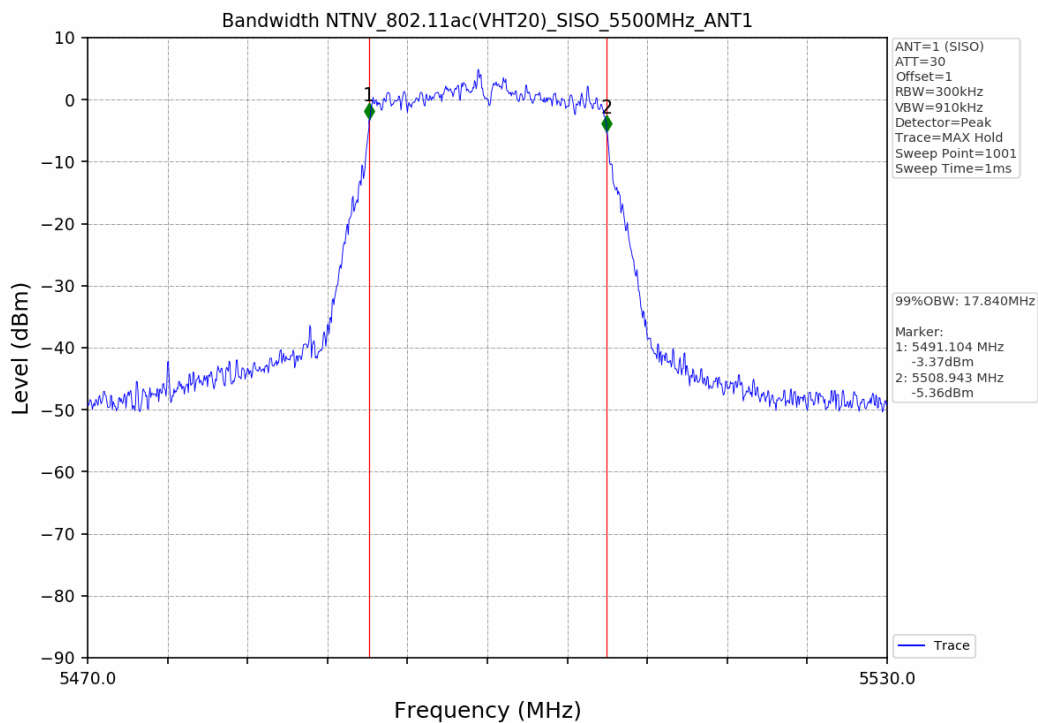


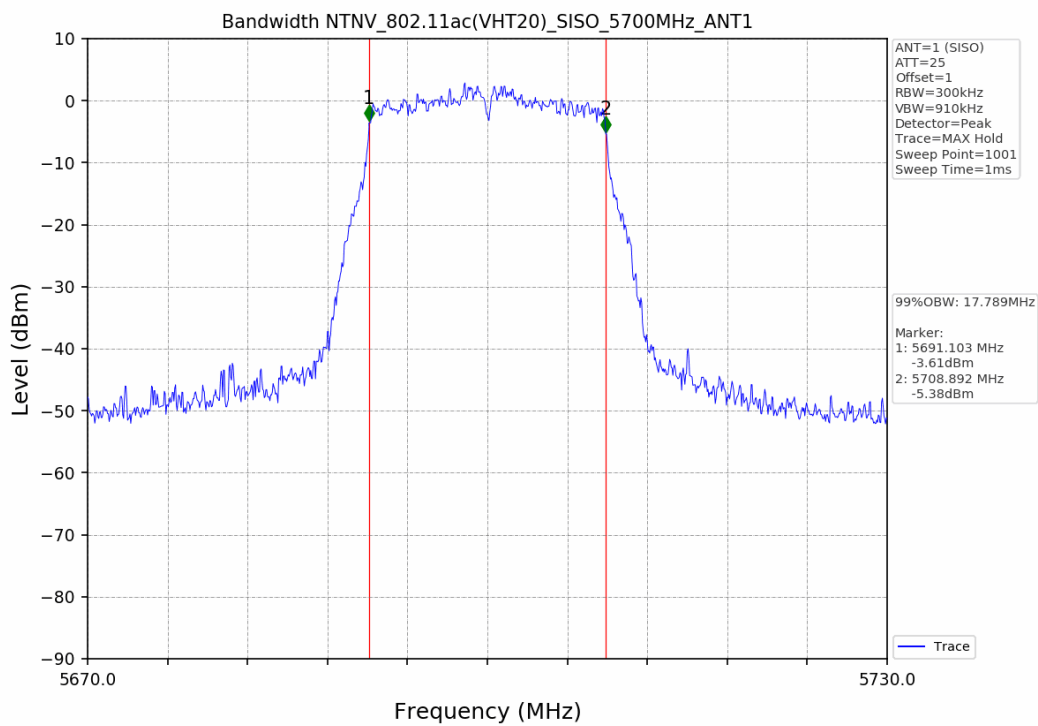
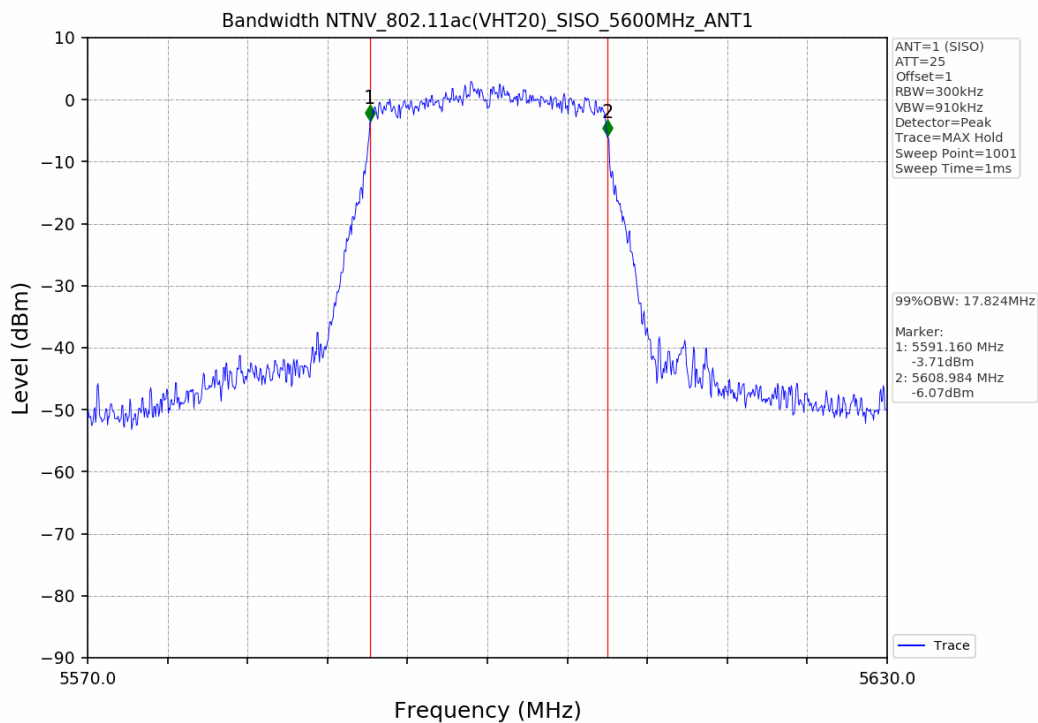


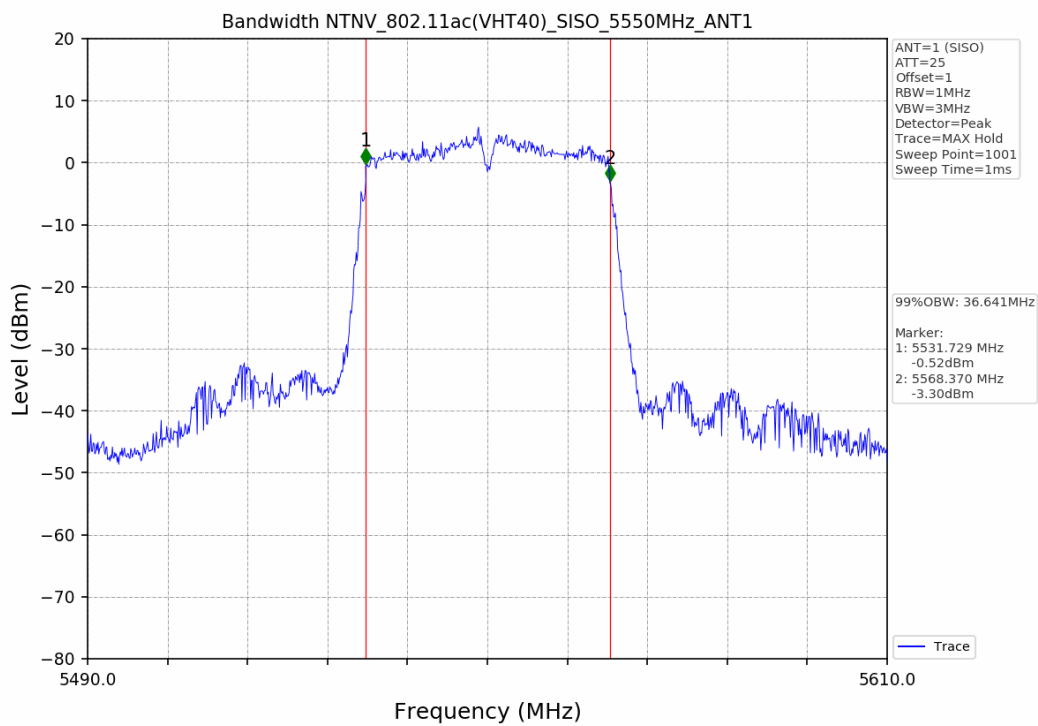
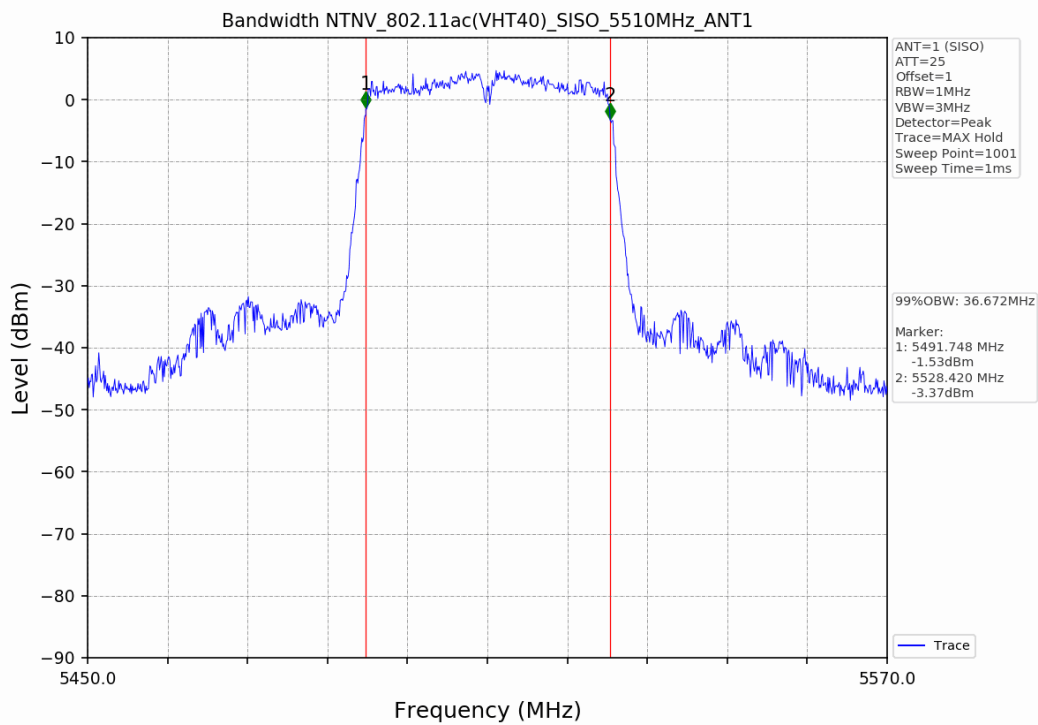


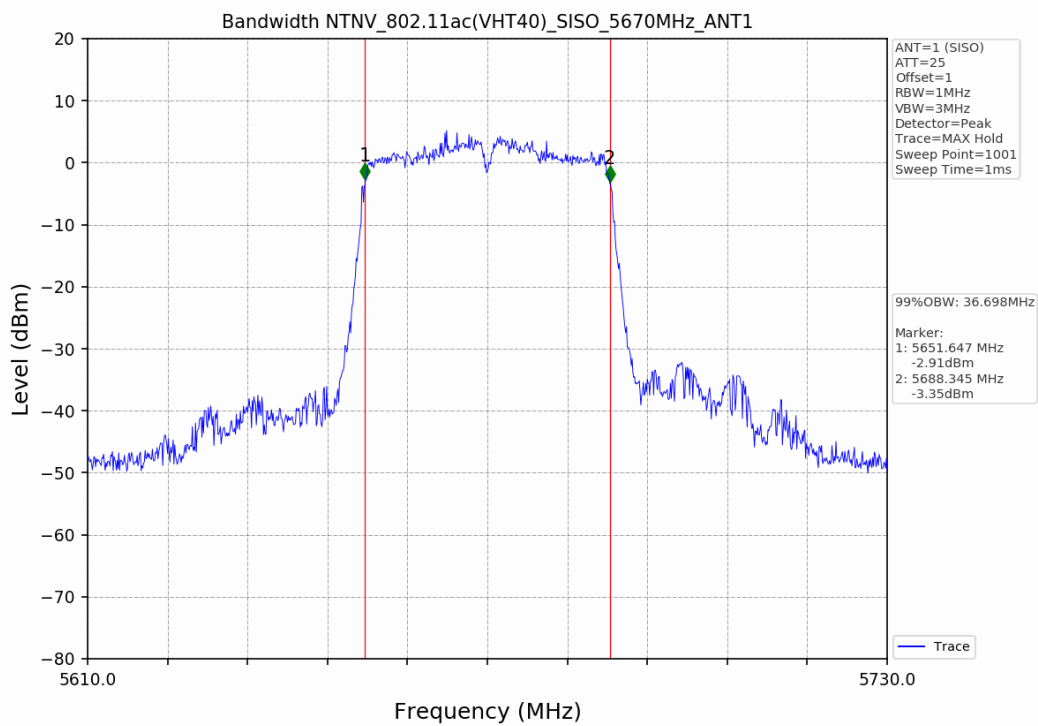
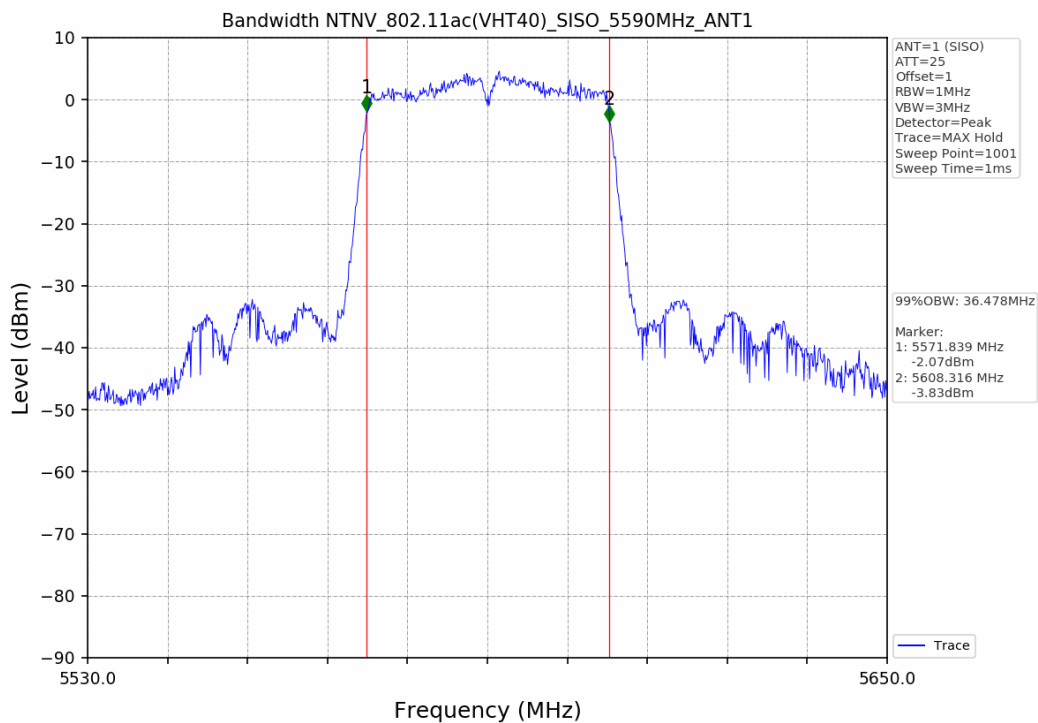


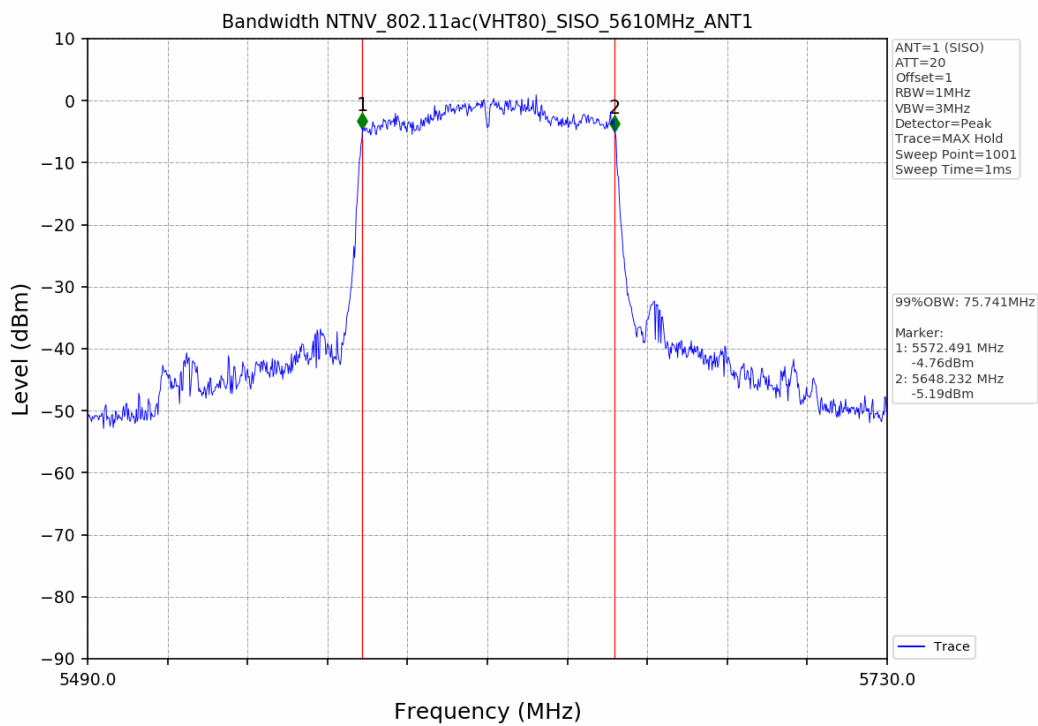
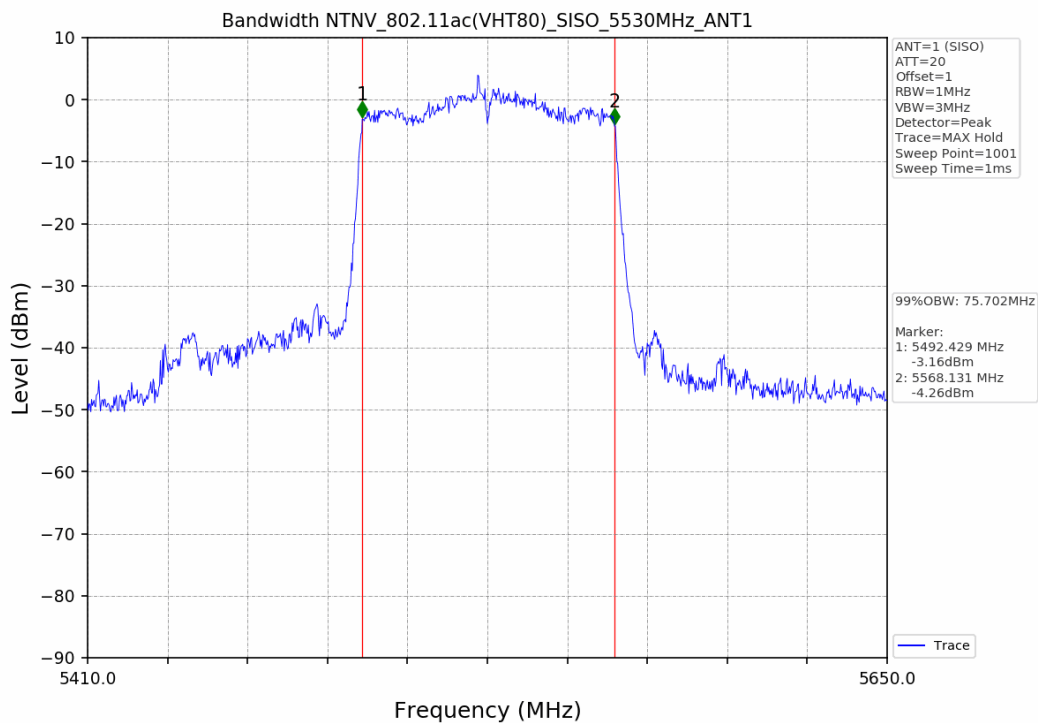










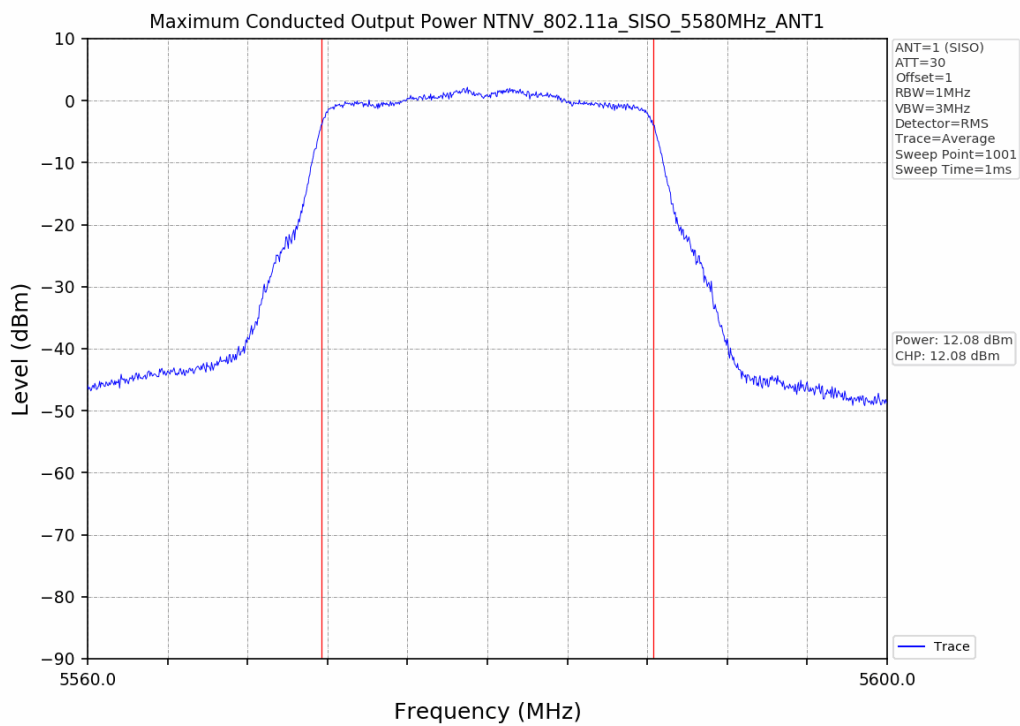
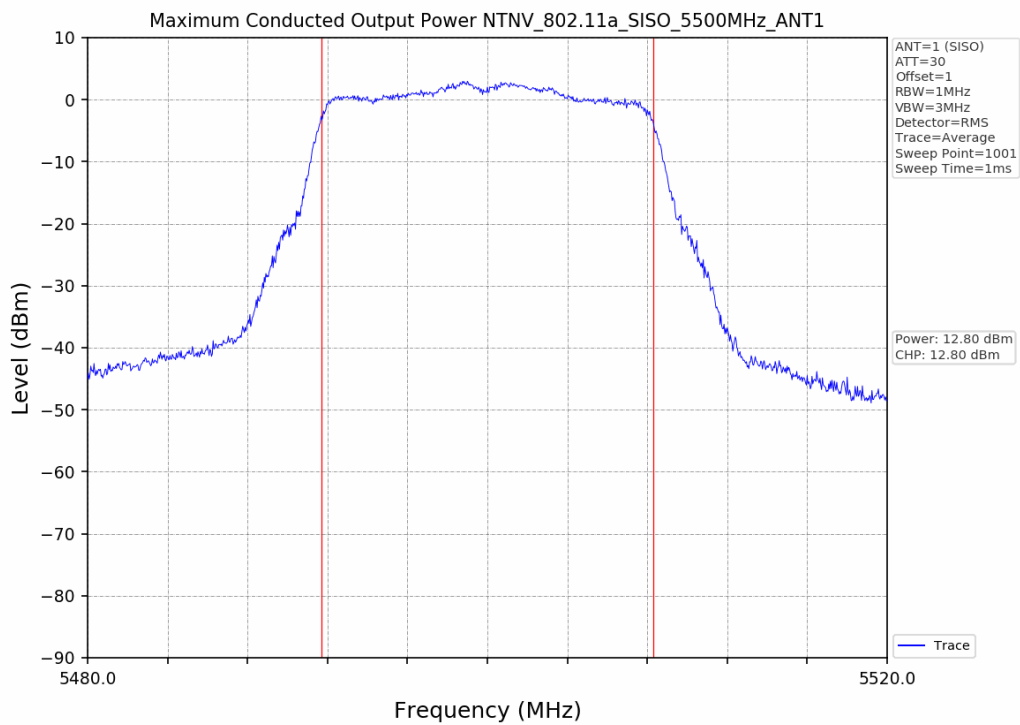


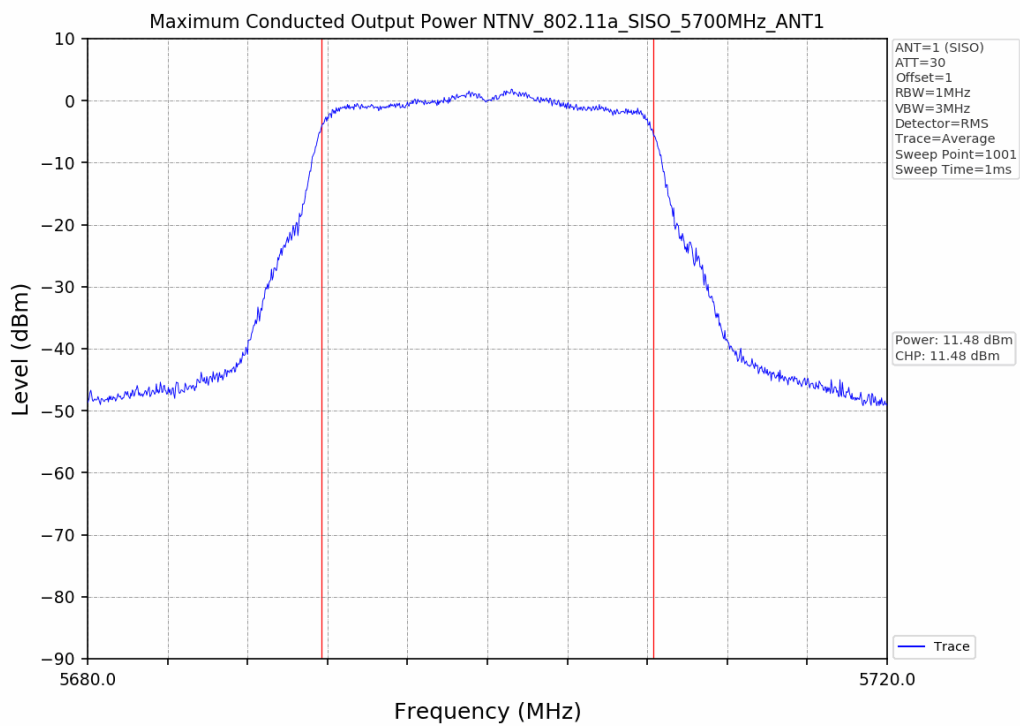
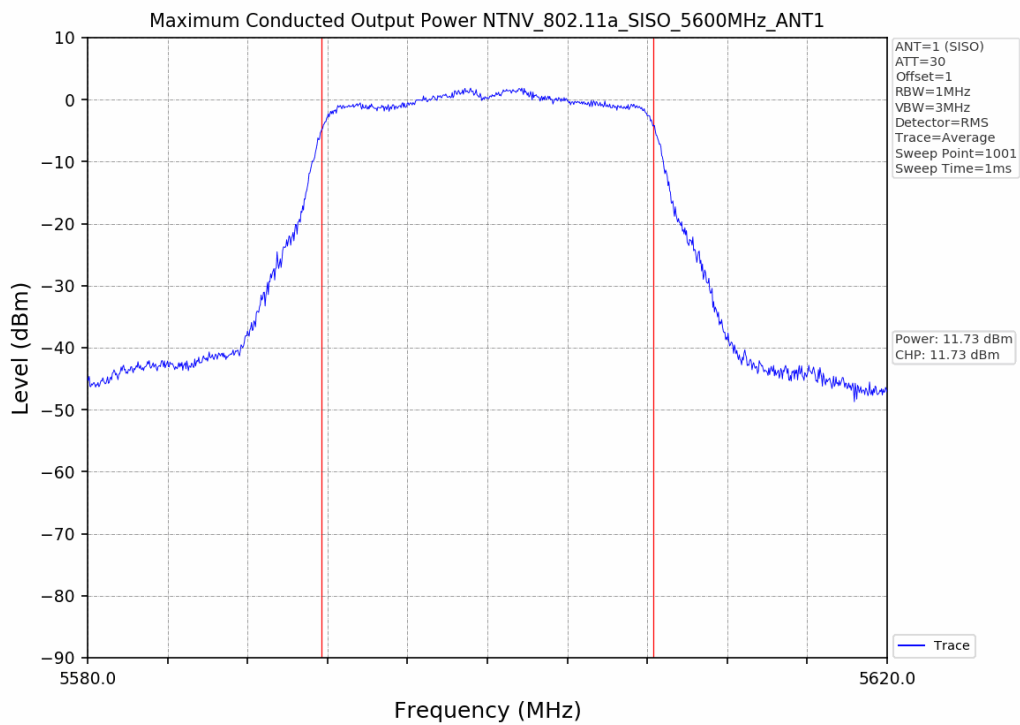
2. Maximum Conducted Output Power

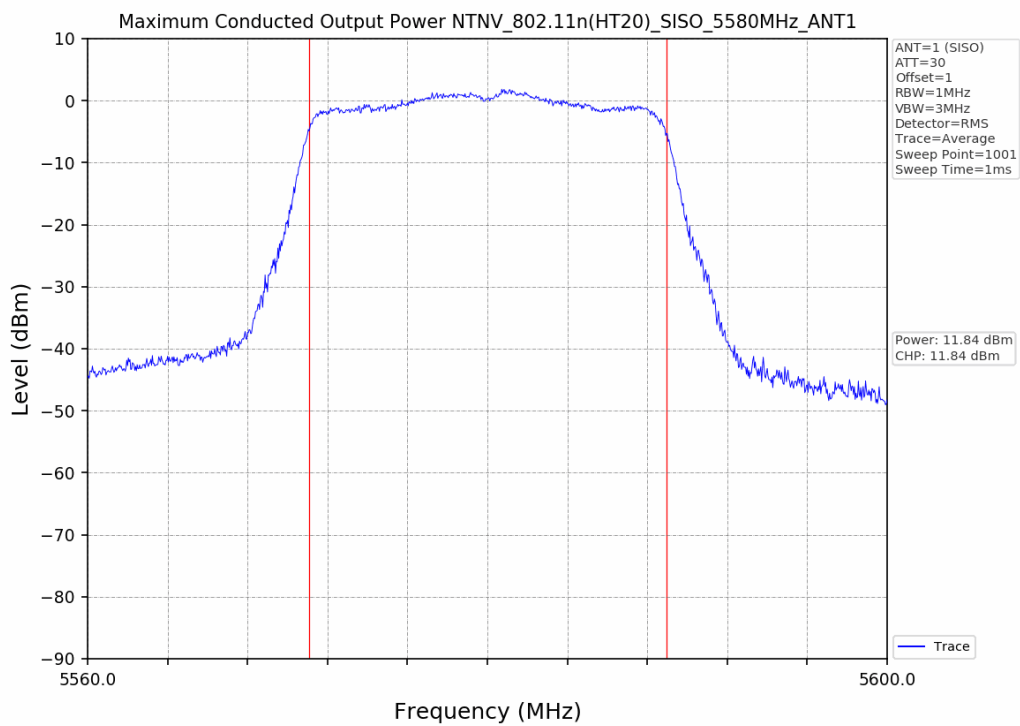
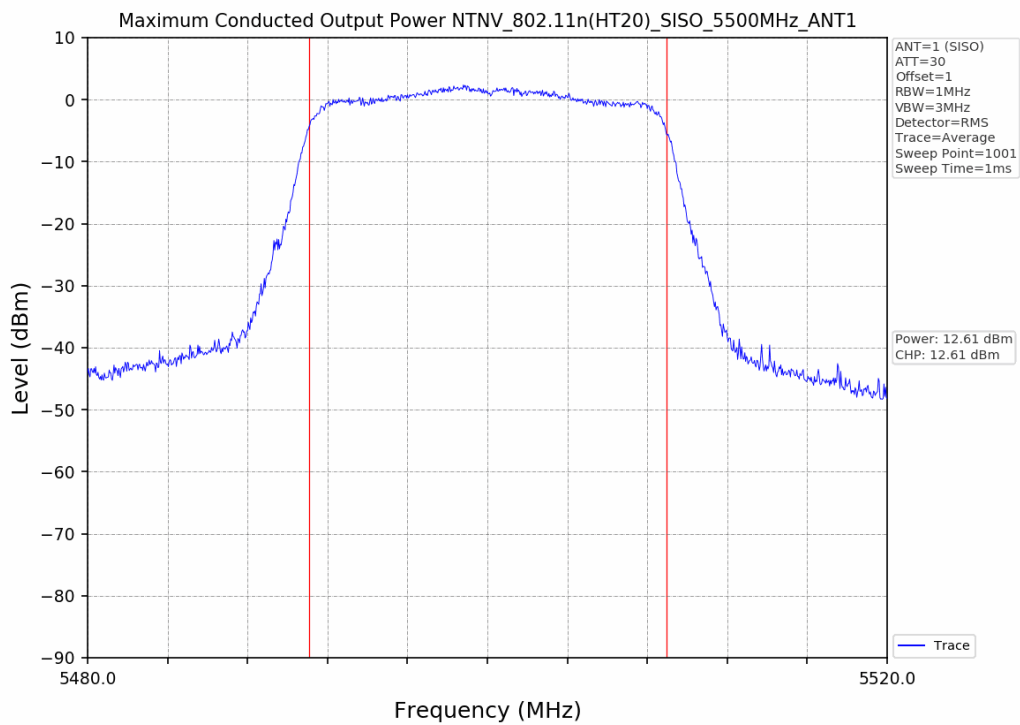
2.1 Test Result

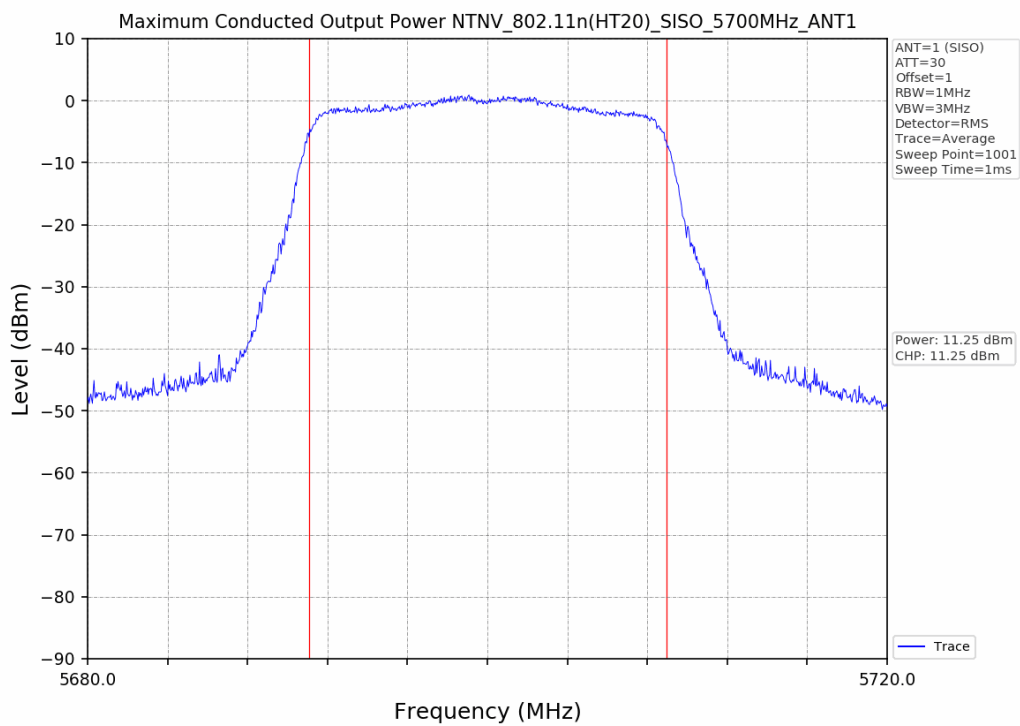
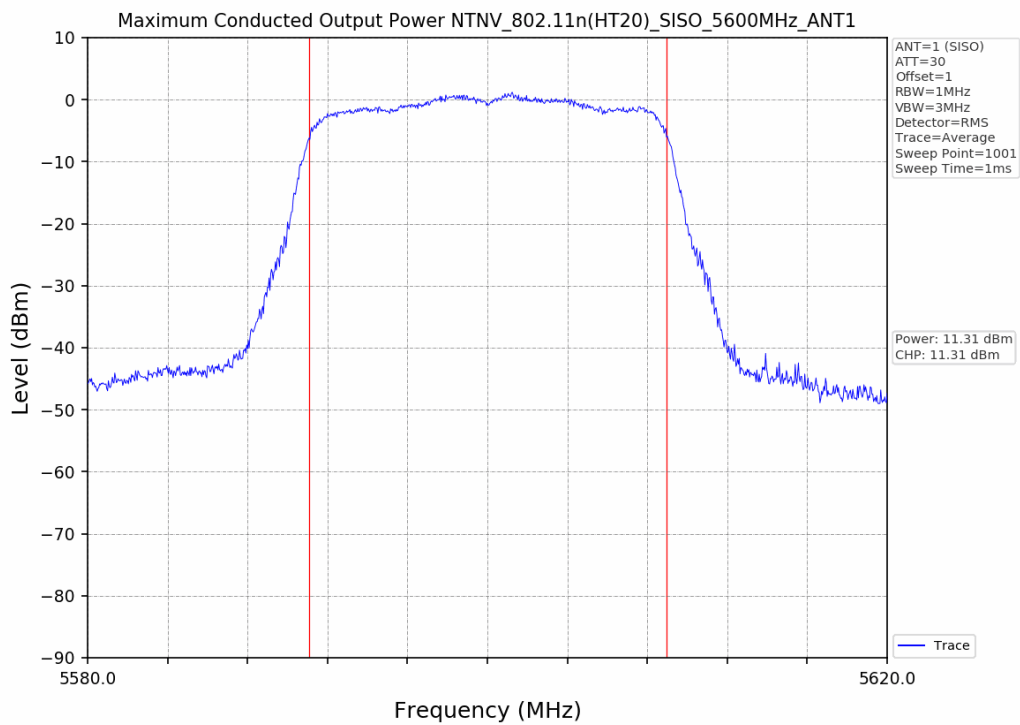
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5500	SISO	12.80	≤23.98	PASS
	5580	SISO	12.08	≤23.98	PASS
	5600	SISO	11.73	≤23.98	PASS
	5700	SISO	11.48	≤23.98	PASS
802.11n(HT20)	5500	SISO	12.61	≤23.98	PASS
	5580	SISO	11.84	≤23.98	PASS
	5600	SISO	11.31	≤23.98	PASS
	5700	SISO	11.25	≤23.98	PASS
802.11n(HT40)	5510	SISO	19.25	≤23.98	PASS
	5550	SISO	18.96	≤23.98	PASS
	5590	SISO	18.55	≤23.98	PASS
	5670	SISO	18.33	≤23.98	PASS
802.11ac(VHT20)	5500	SISO	17.77	≤23.98	PASS
	5580	SISO	17.22	≤23.98	PASS
	5600	SISO	9.80	≤23.98	PASS
	5700	SISO	9.84	≤23.98	PASS
802.11ac(VHT40)	5510	SISO	16.55	≤23.98	PASS
	5550	SISO	15.91	≤23.98	PASS
	5590	SISO	15.74	≤23.98	PASS
	5670	SISO	8.61	≤23.98	PASS
802.11ac(VHT80)	5530	SISO	16.03	≤23.98	PASS
	5610	SISO	8.22	≤23.98	PASS

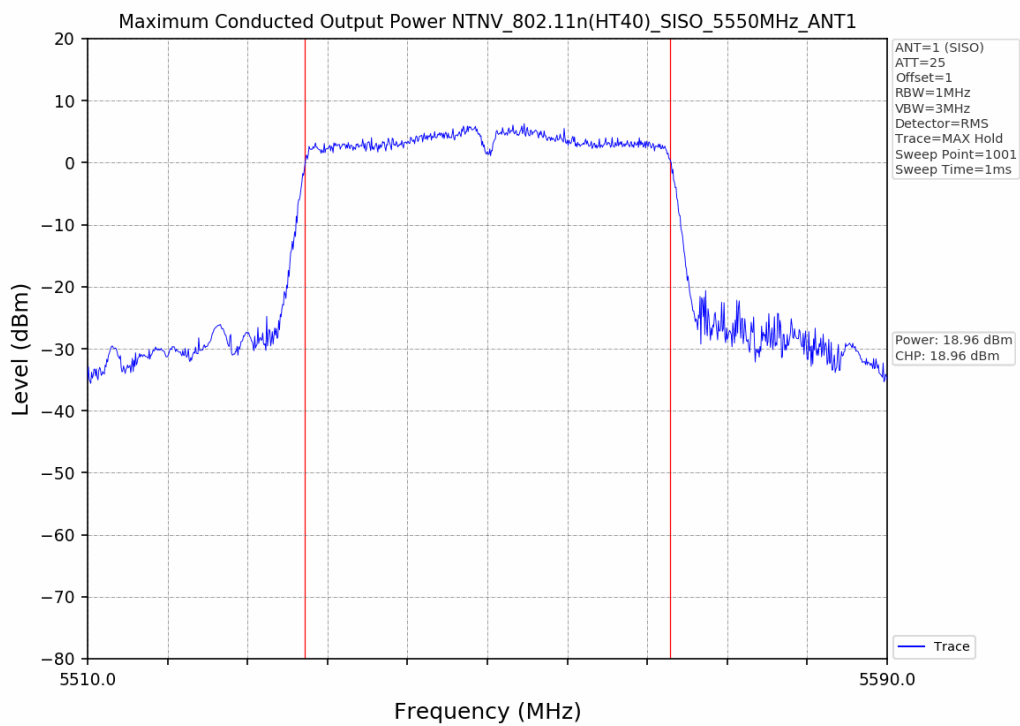
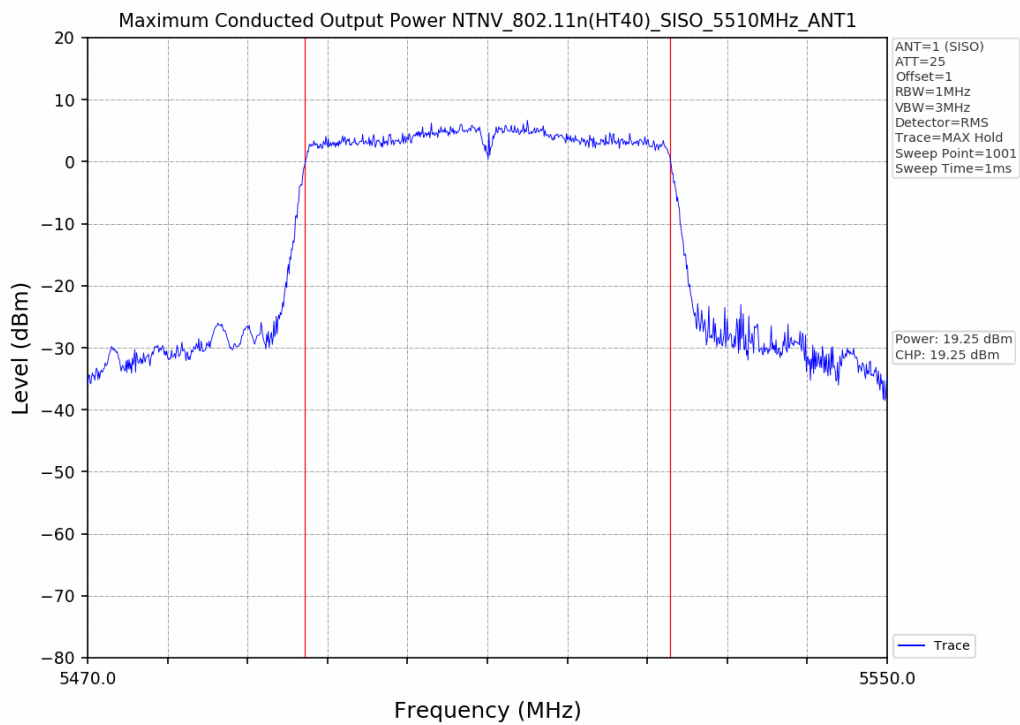
2.2 Test Graph

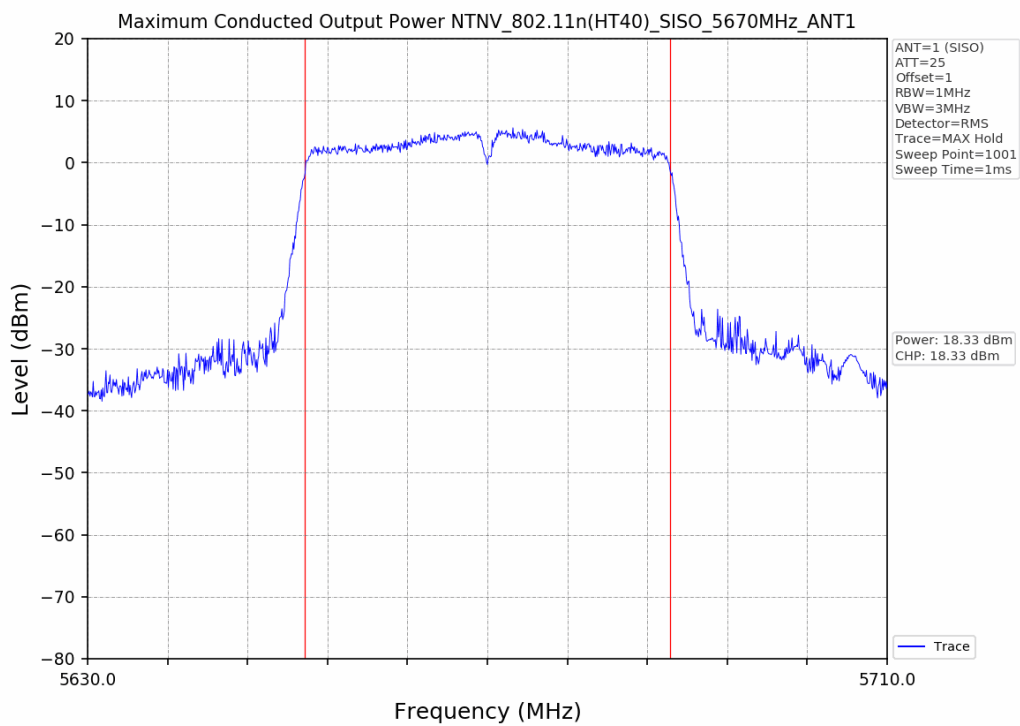
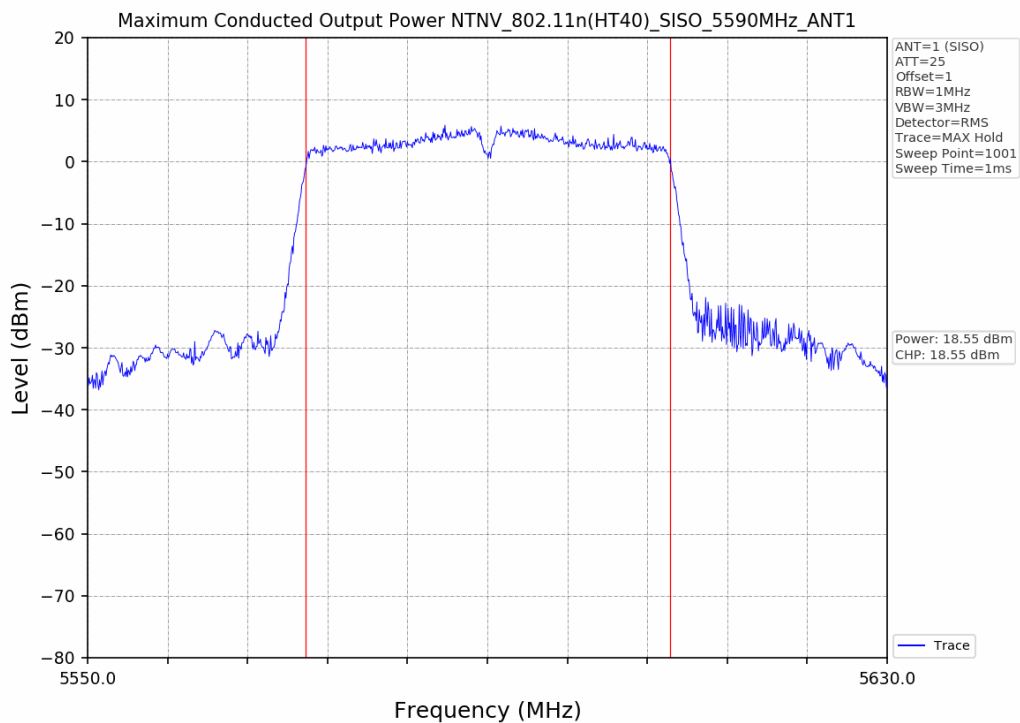


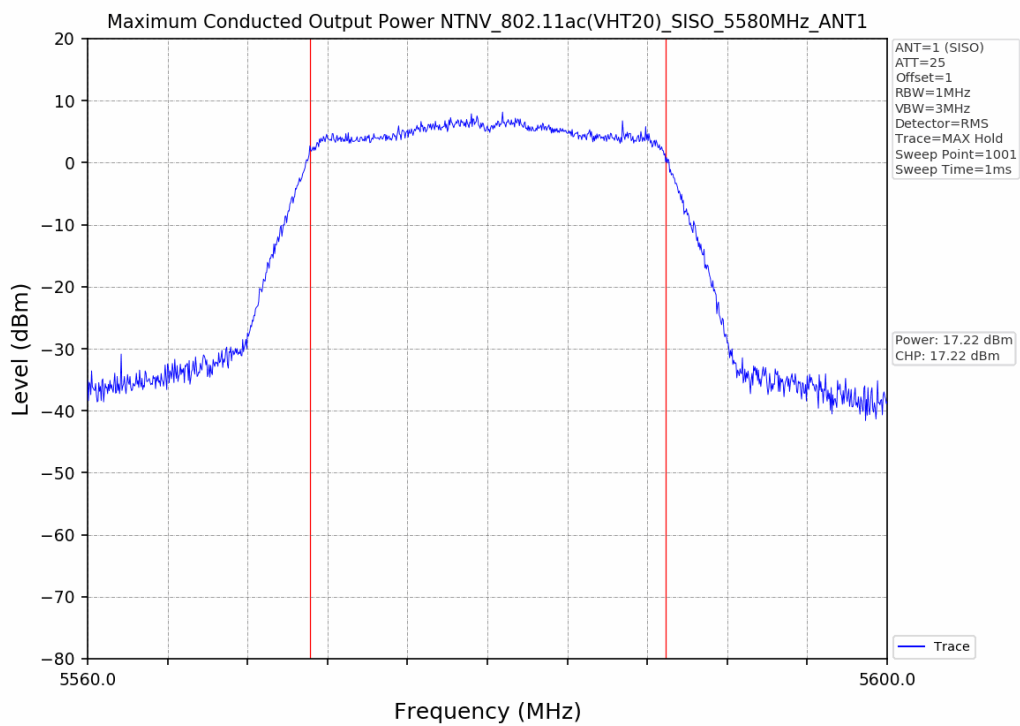
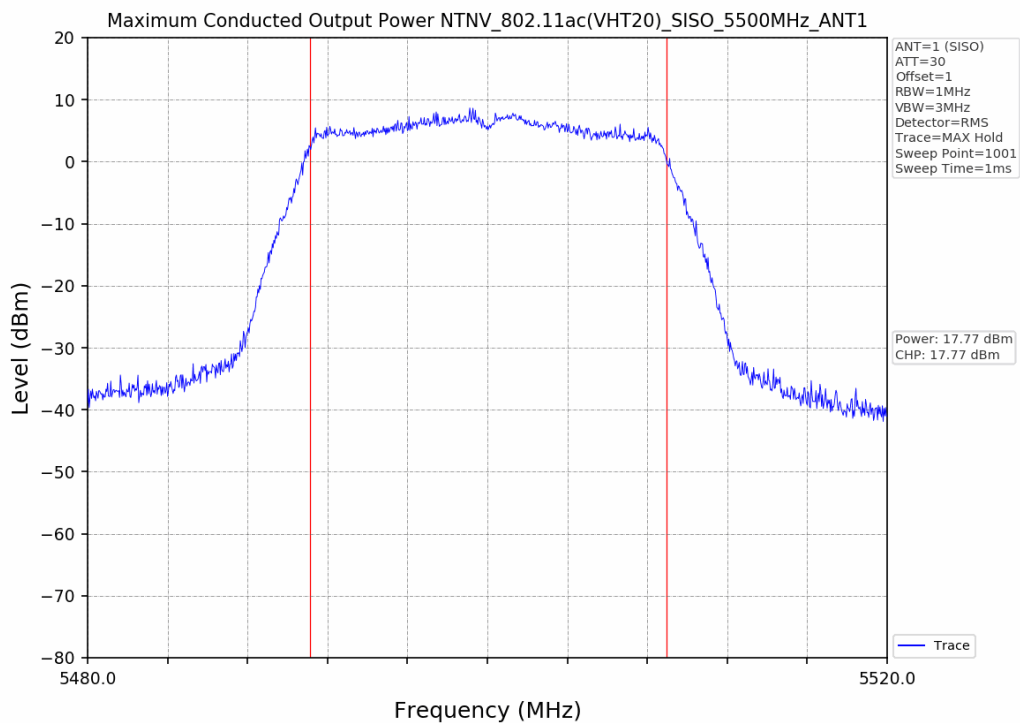


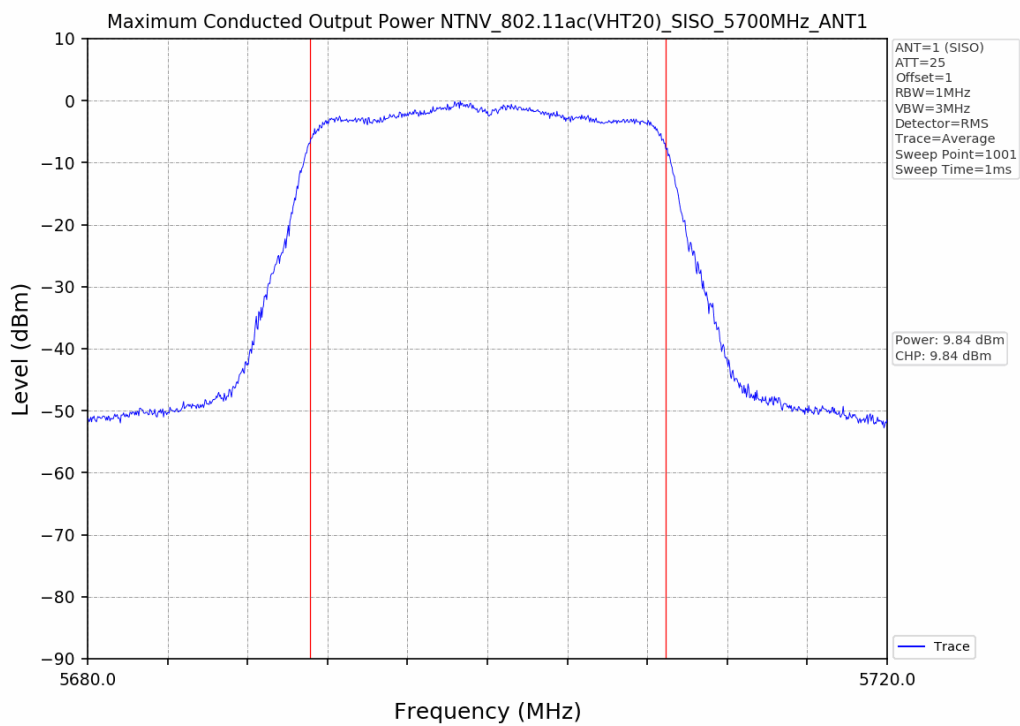
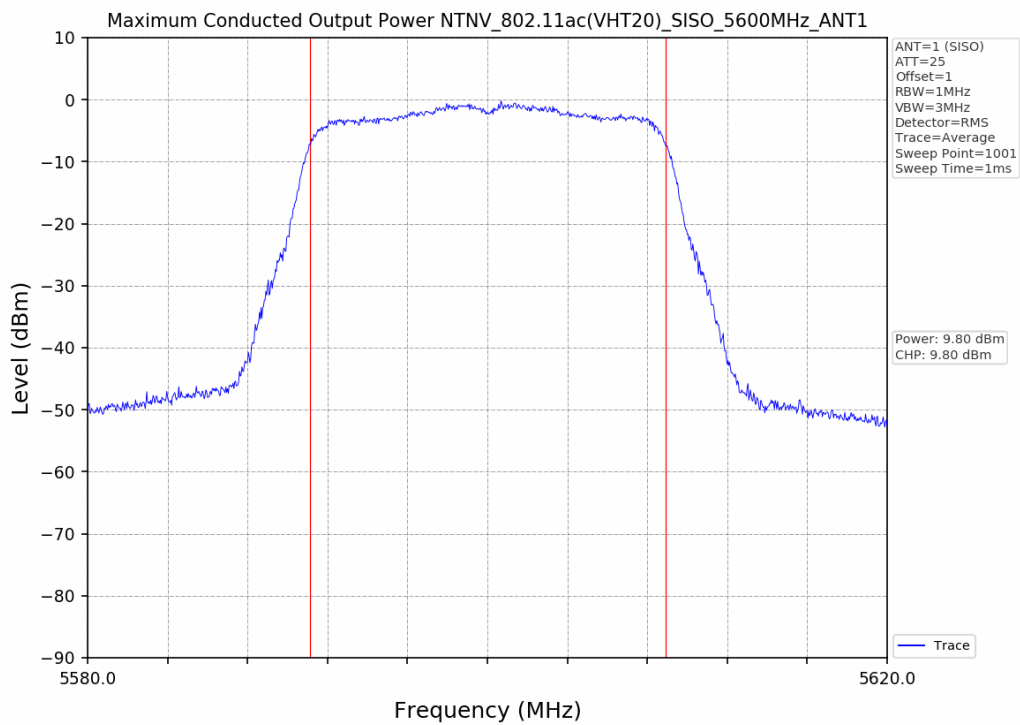


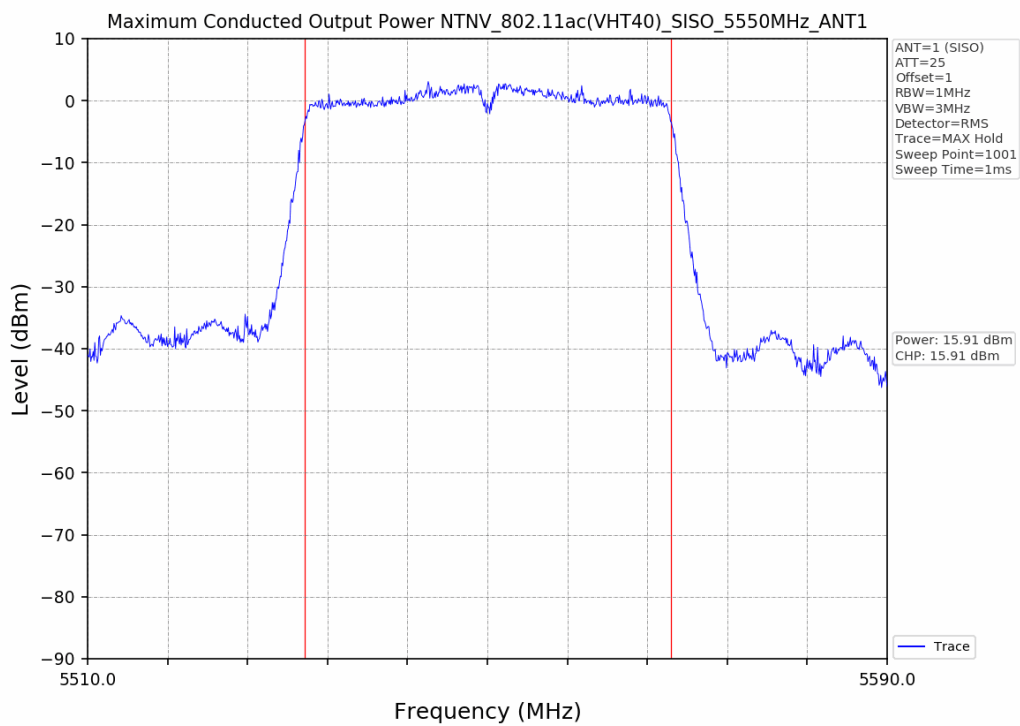
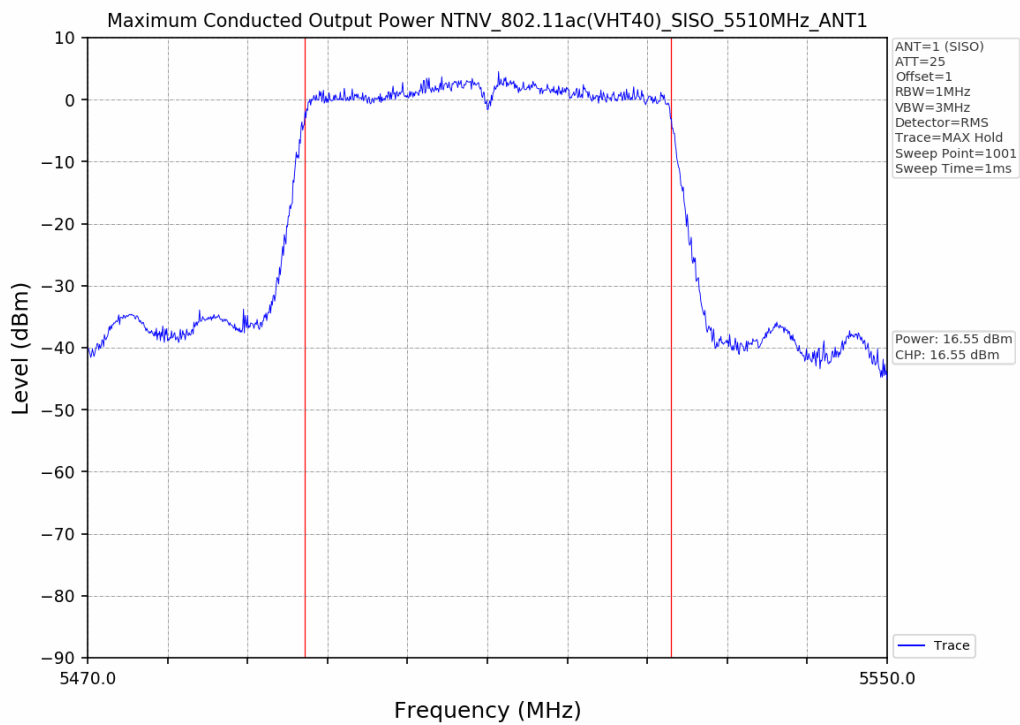


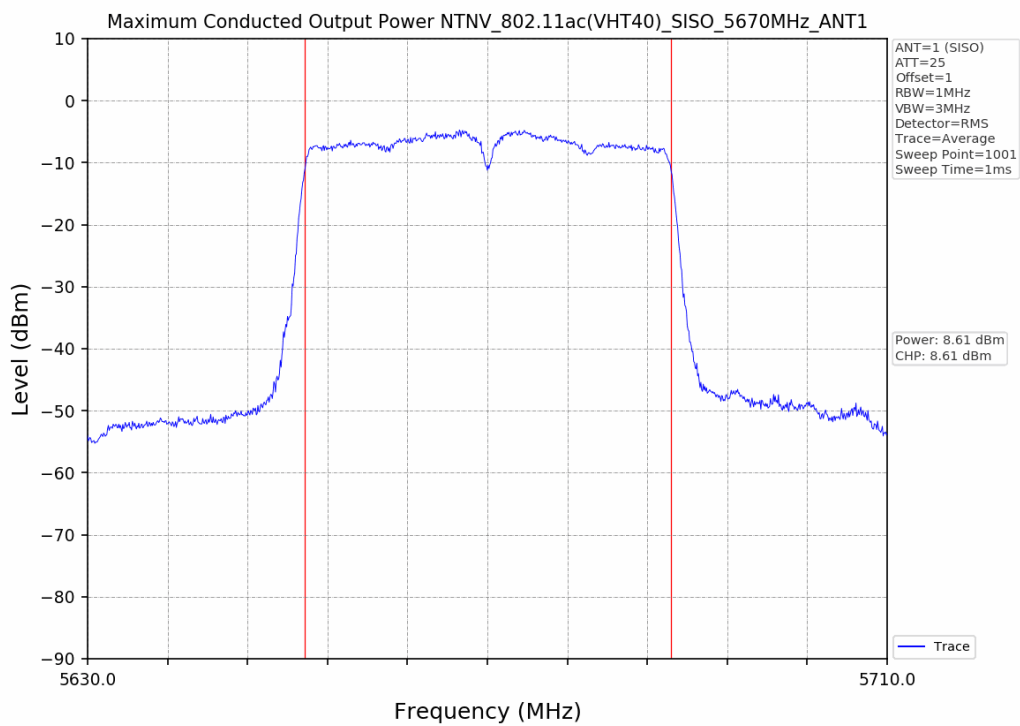
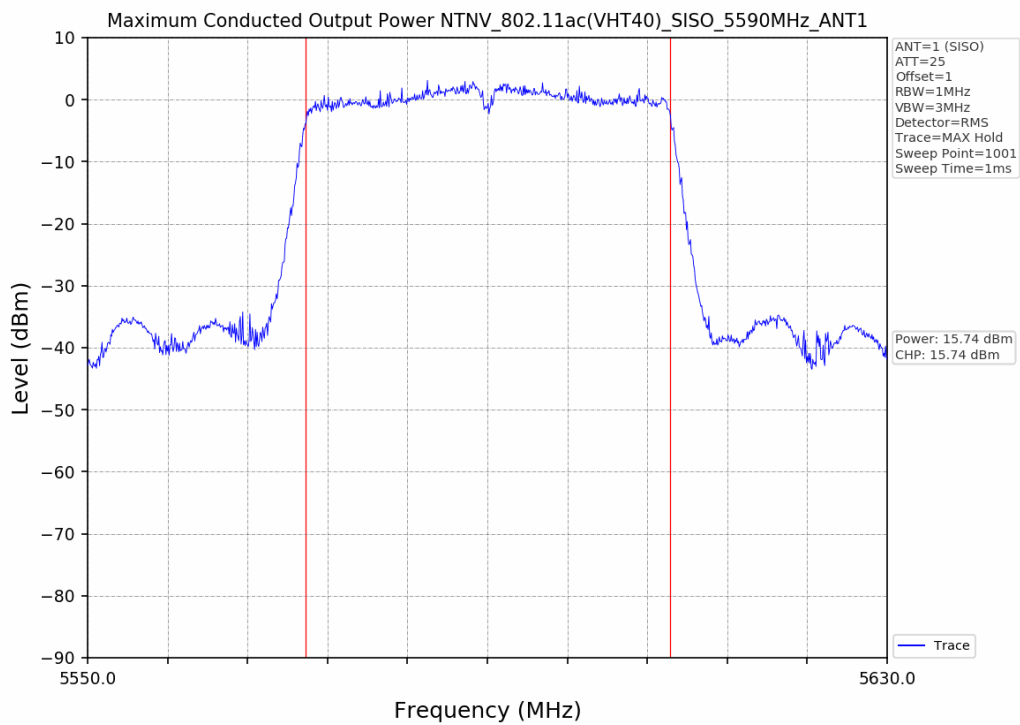


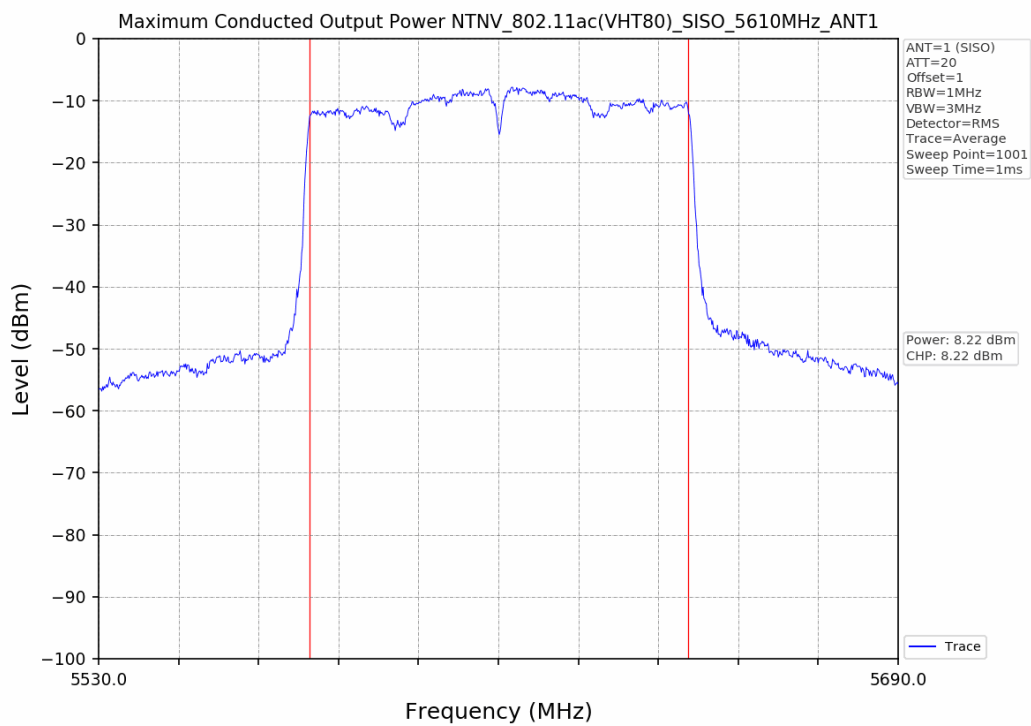
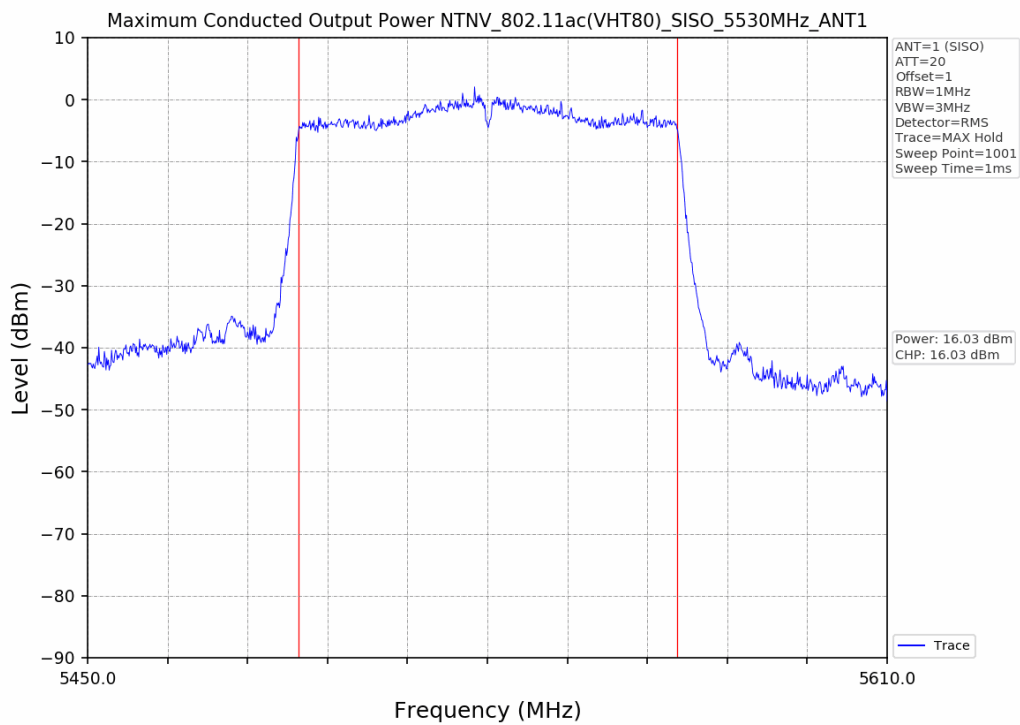










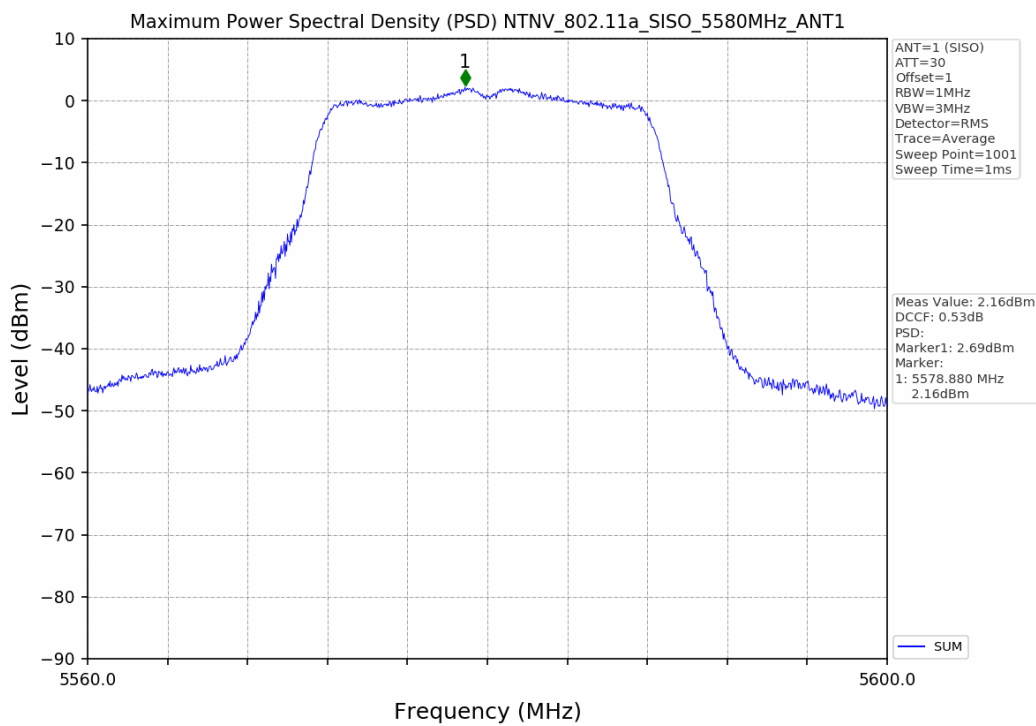
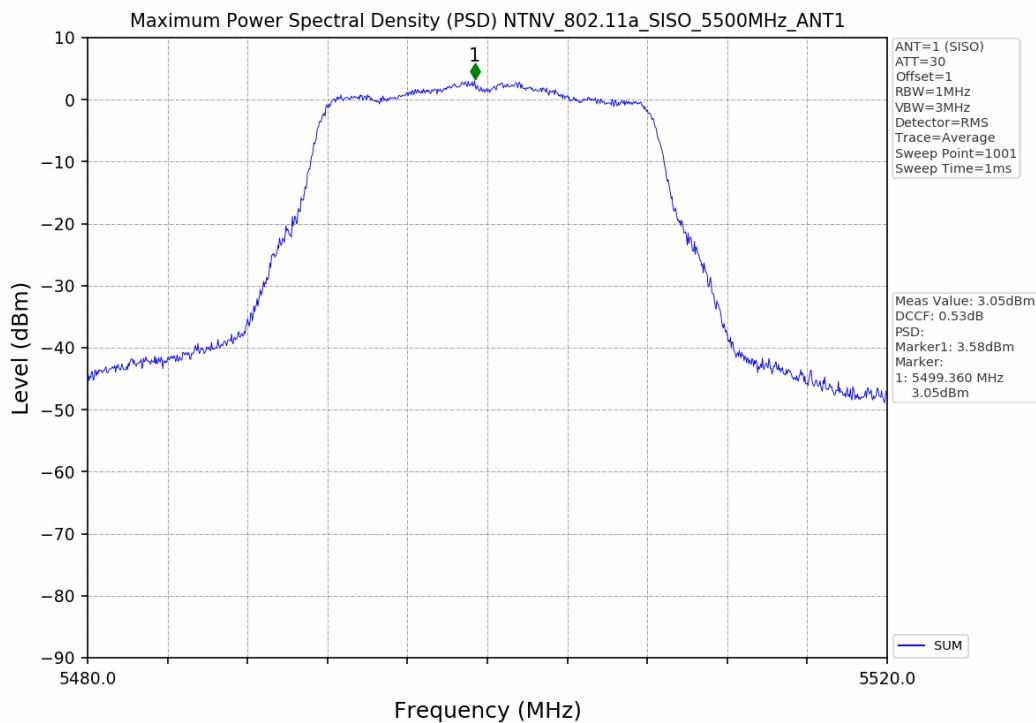


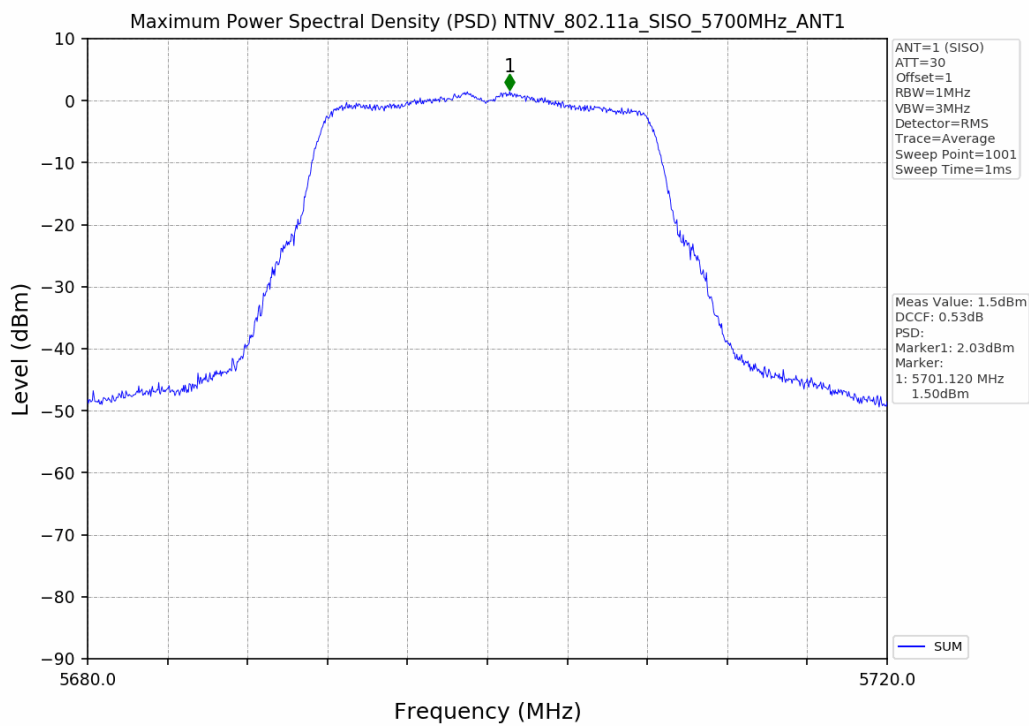
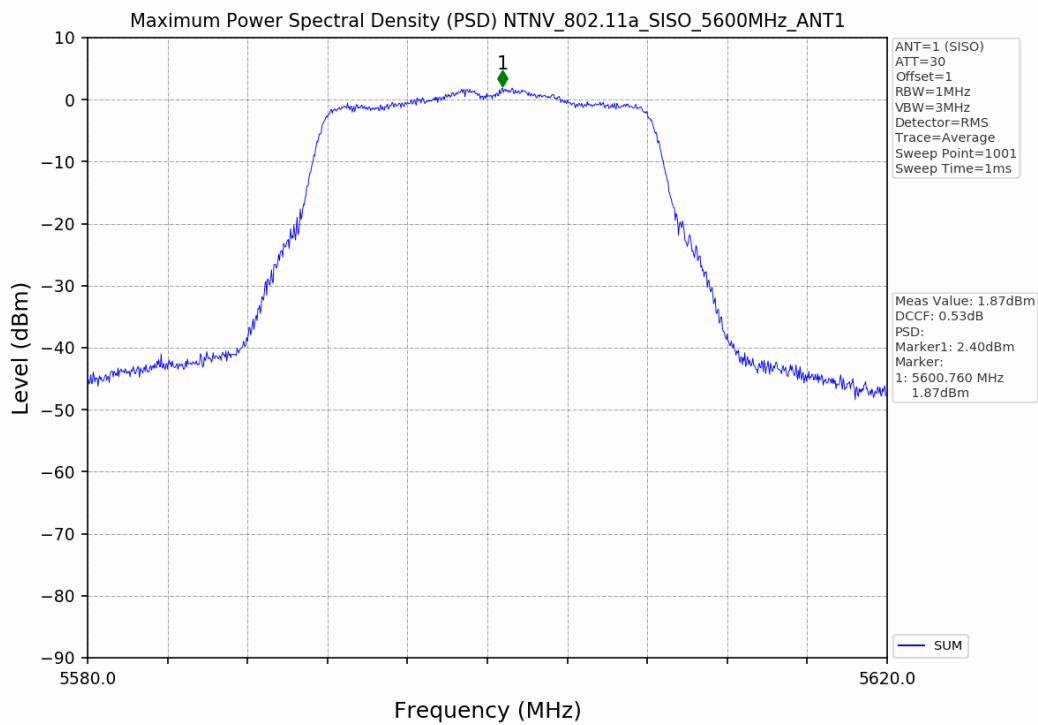
3. Maximum Power Spectral Density (PSD)

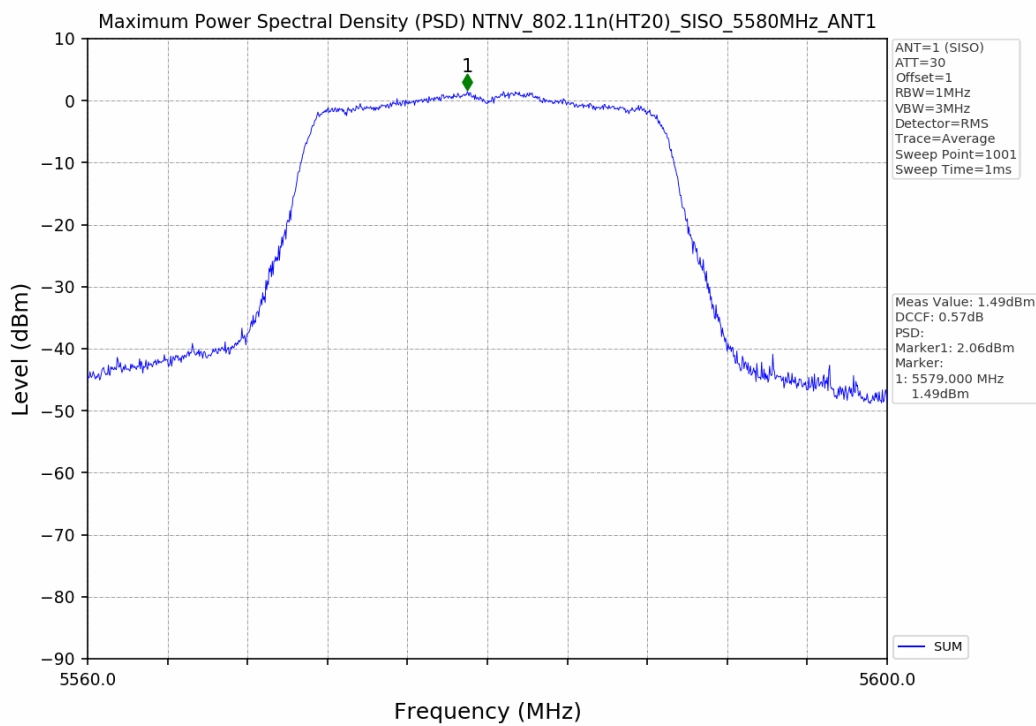
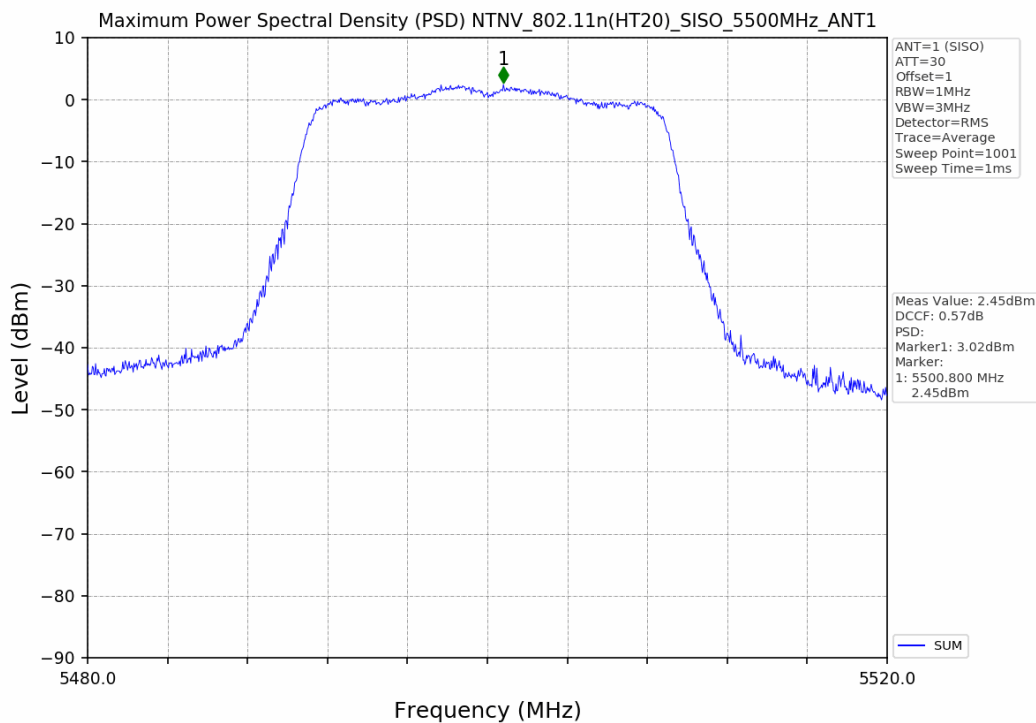
3.1 Test Result

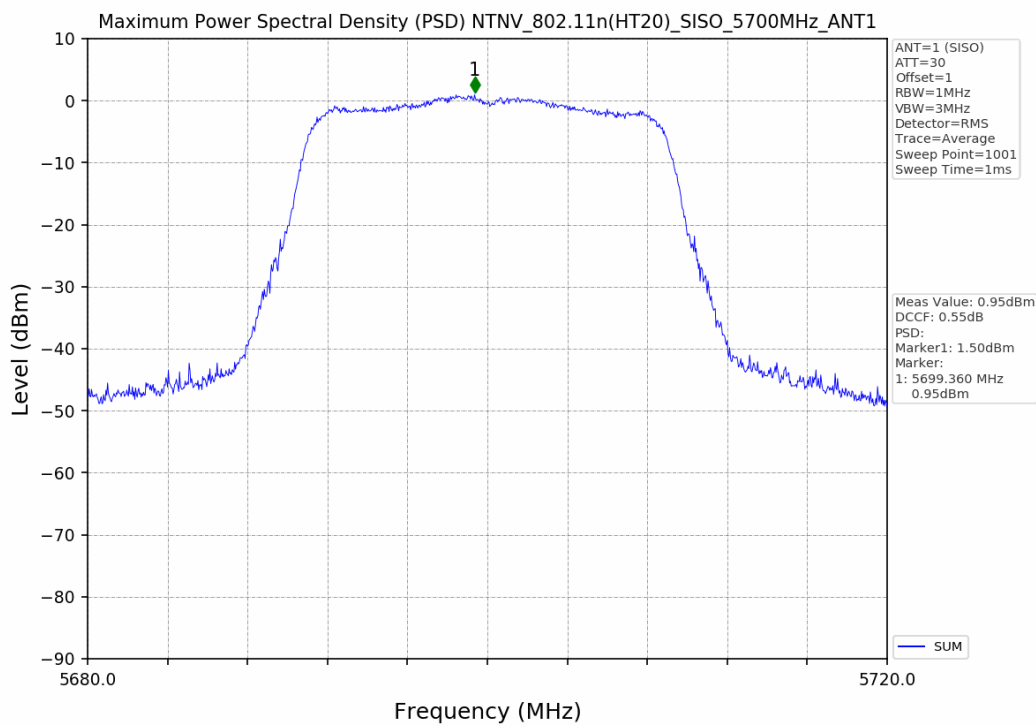
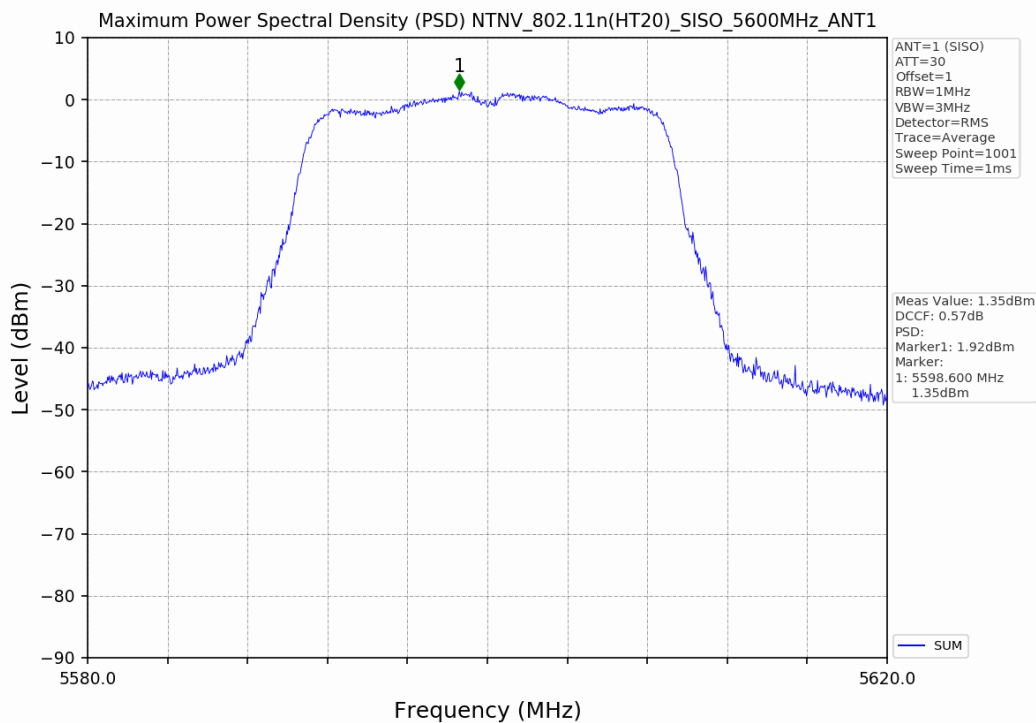
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5500	SISO	3.58	≤11	PASS
	5580	SISO	2.69	≤11	PASS
	5600	SISO	2.40	≤11	PASS
	5700	SISO	2.03	≤11	PASS
802.11n(HT20)	5500	SISO	3.02	≤11	PASS
	5580	SISO	2.06	≤11	PASS
	5600	SISO	1.92	≤11	PASS
	5700	SISO	1.50	≤11	PASS
802.11n(HT40)	5510	SISO	6.76	≤11	PASS
	5550	SISO	6.29	≤11	PASS
	5590	SISO	6.07	≤11	PASS
	5670	SISO	5.77	≤11	PASS
802.11ac(VHT20)	5500	SISO	8.80	≤11	PASS
	5580	SISO	8.15	≤11	PASS
	5600	SISO	0.09	≤11	PASS
	5700	SISO	0.46	≤11	PASS
802.11ac(VHT40)	5510	SISO	3.62	≤11	PASS
	5550	SISO	3.79	≤11	PASS
	5590	SISO	3.24	≤11	PASS
	5670	SISO	-4.21	≤11	PASS
802.11ac(VHT80)	5530	SISO	1.08	≤11	PASS
	5610	SISO	-6.78	≤11	PASS

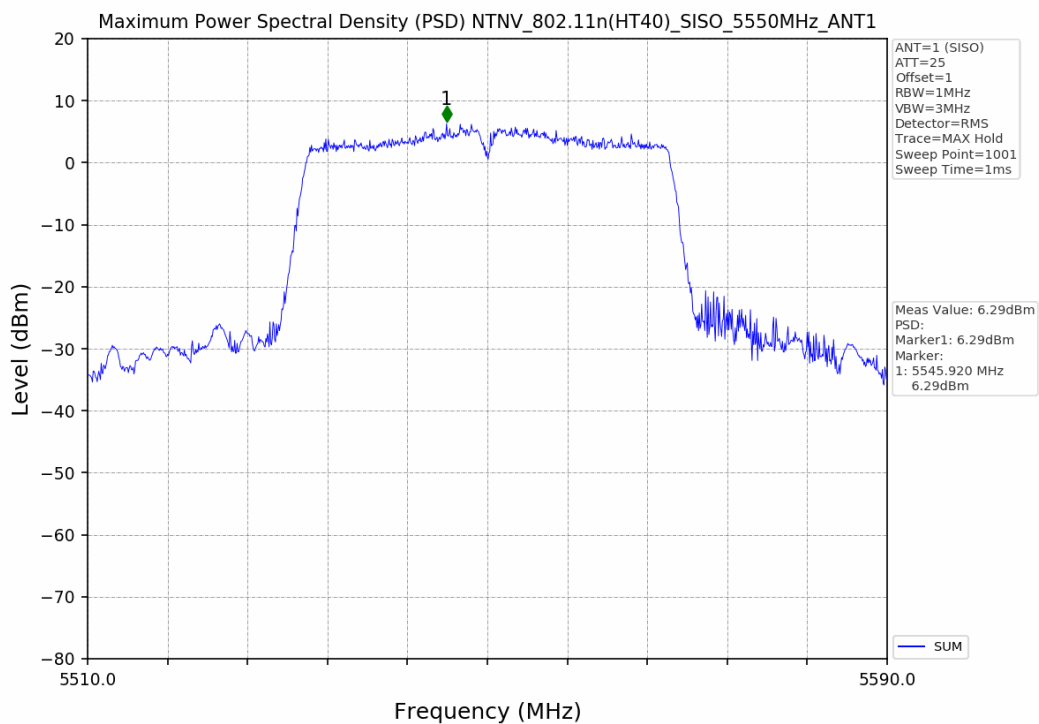
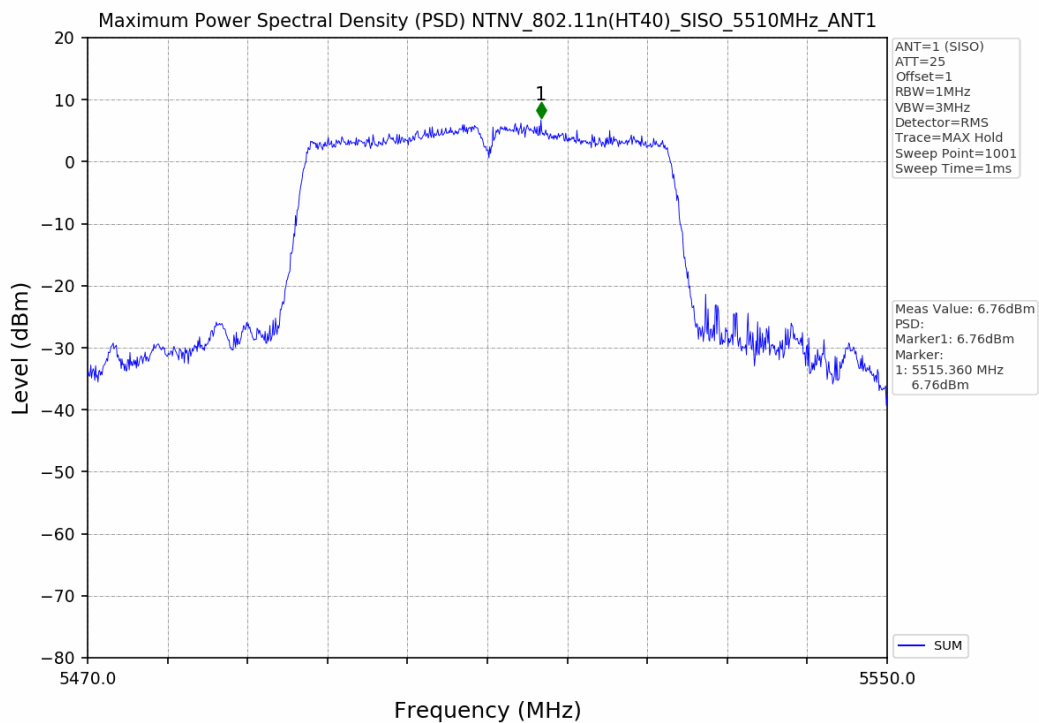
3.2 Test Graph

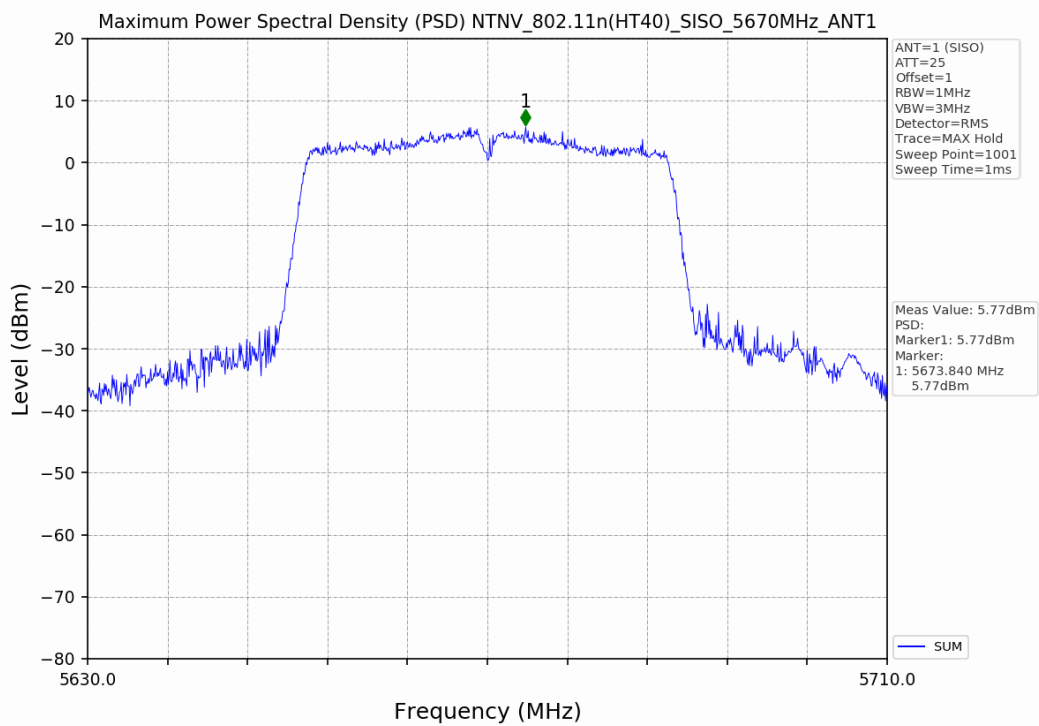
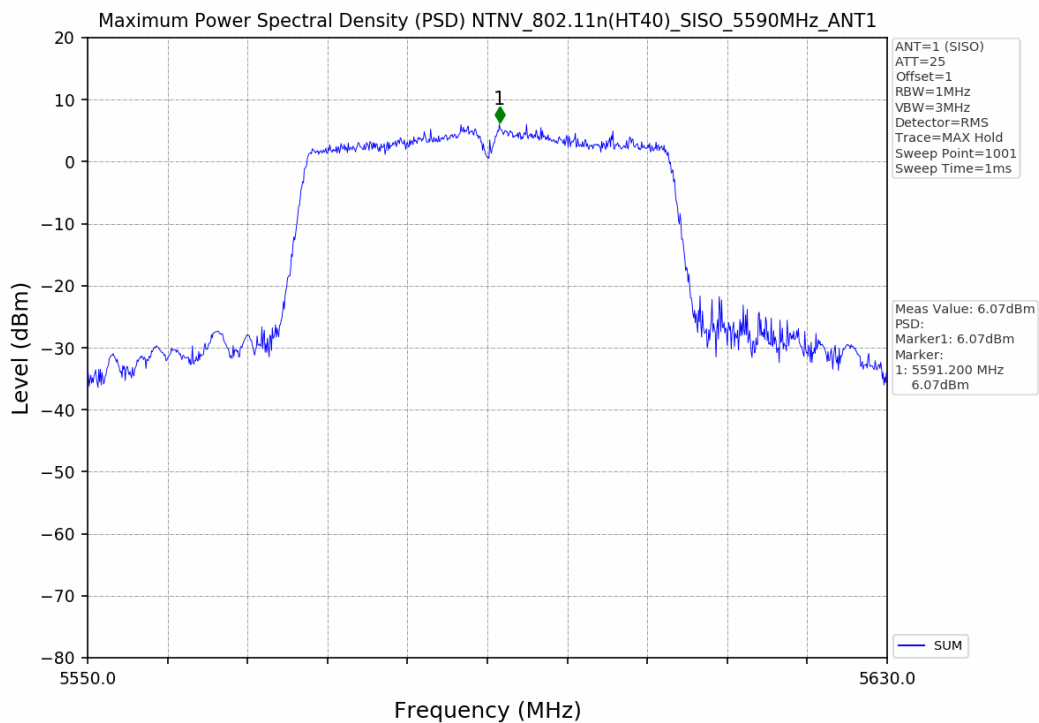


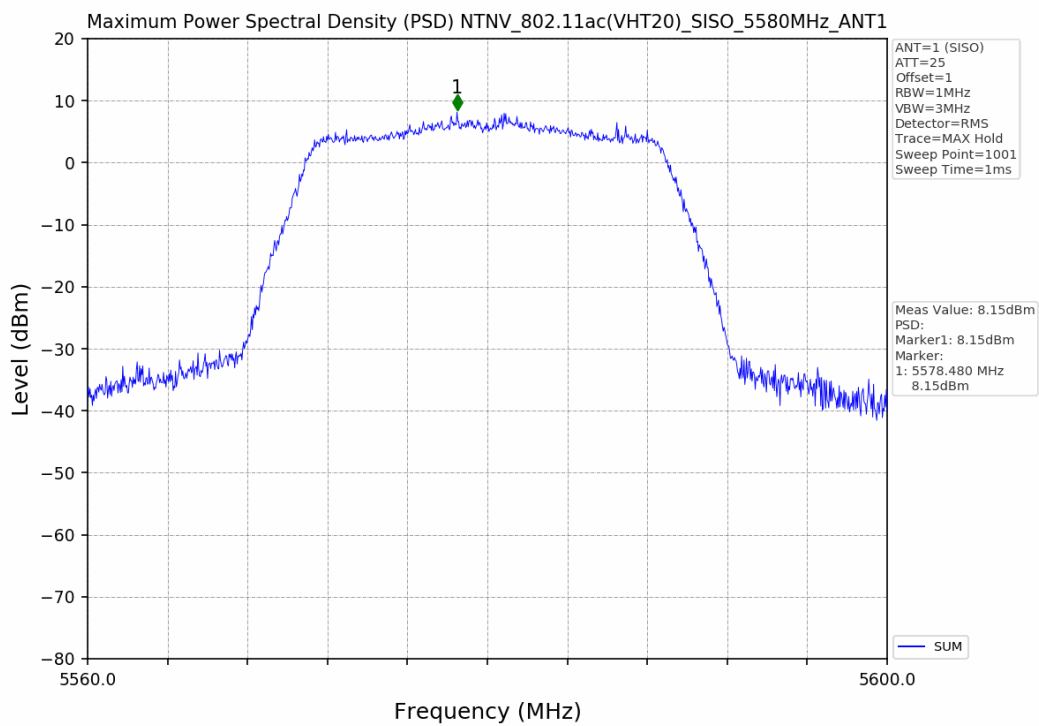
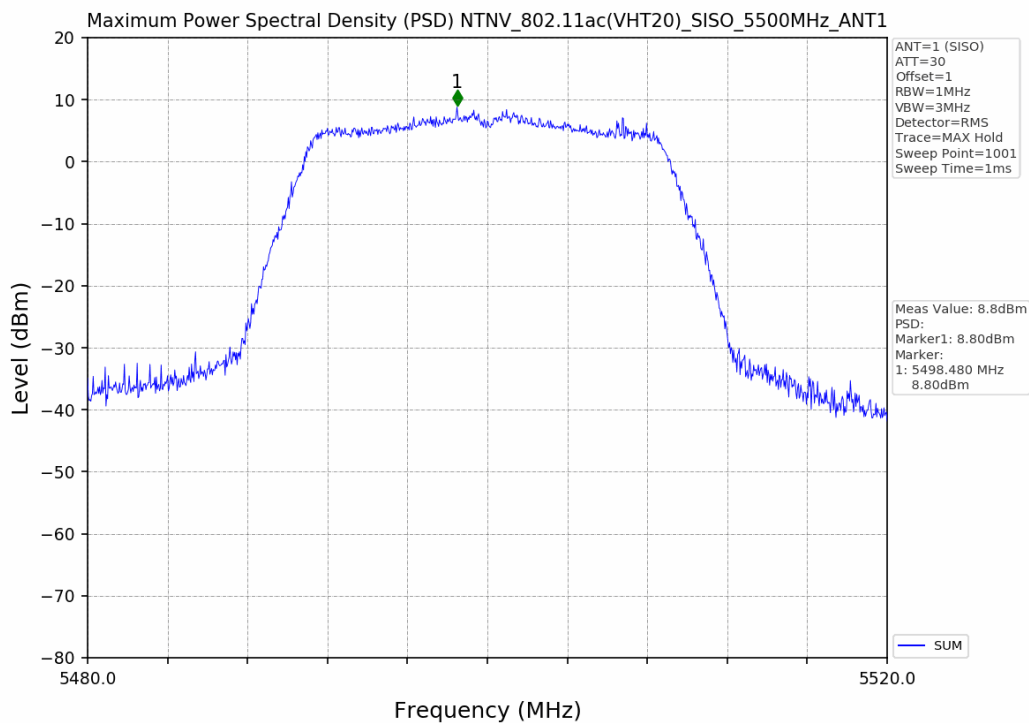


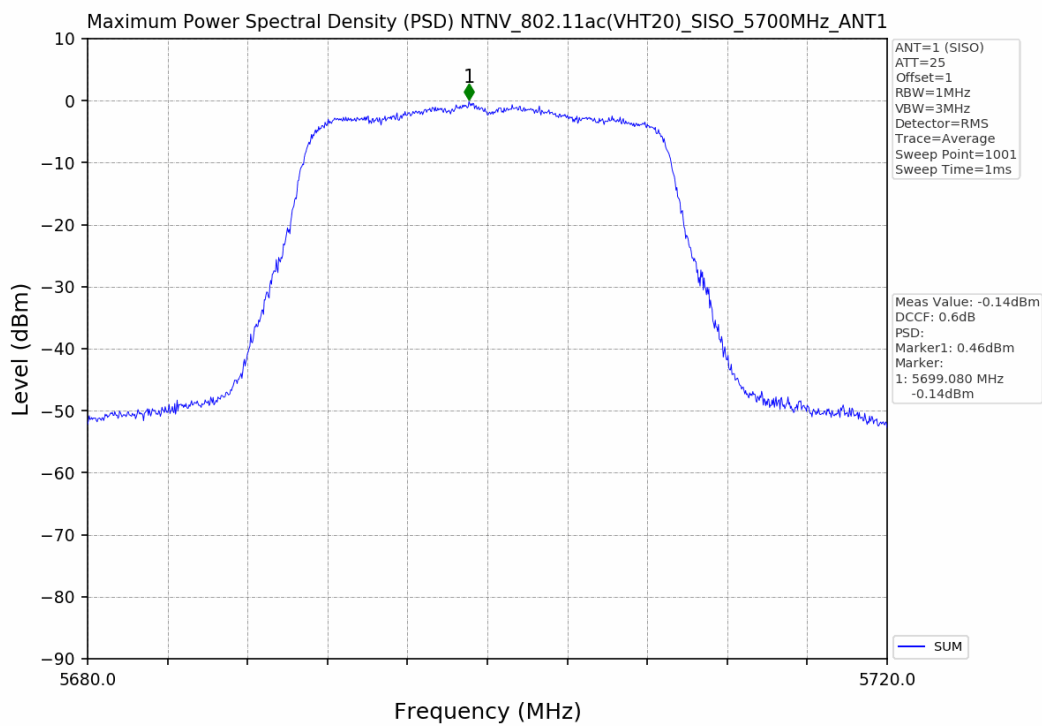
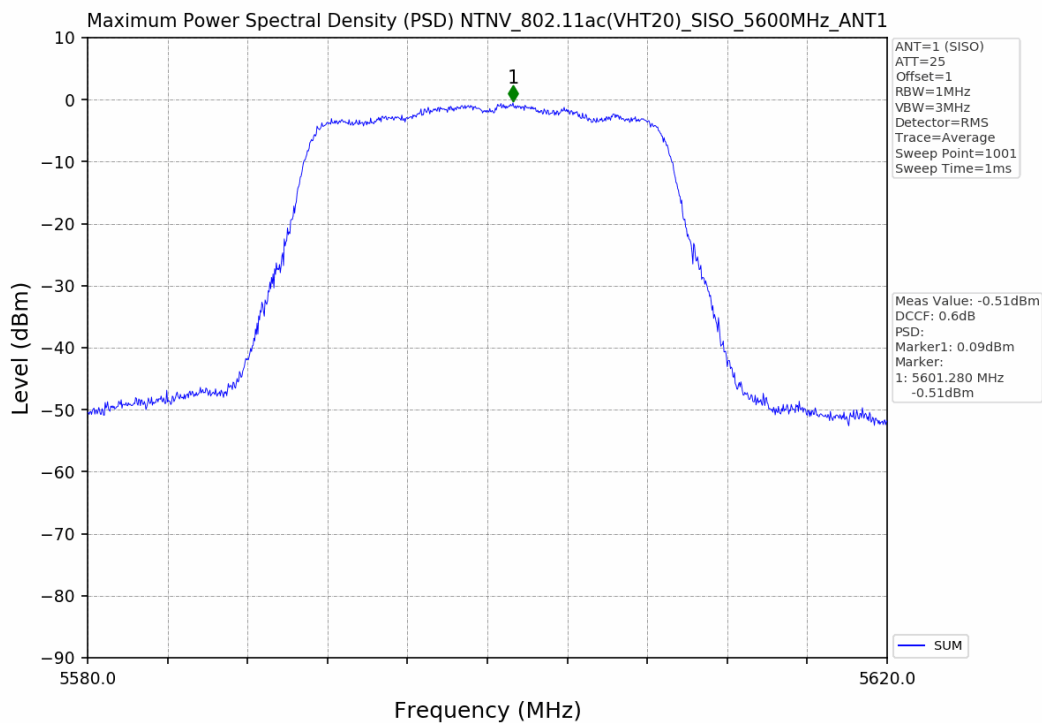


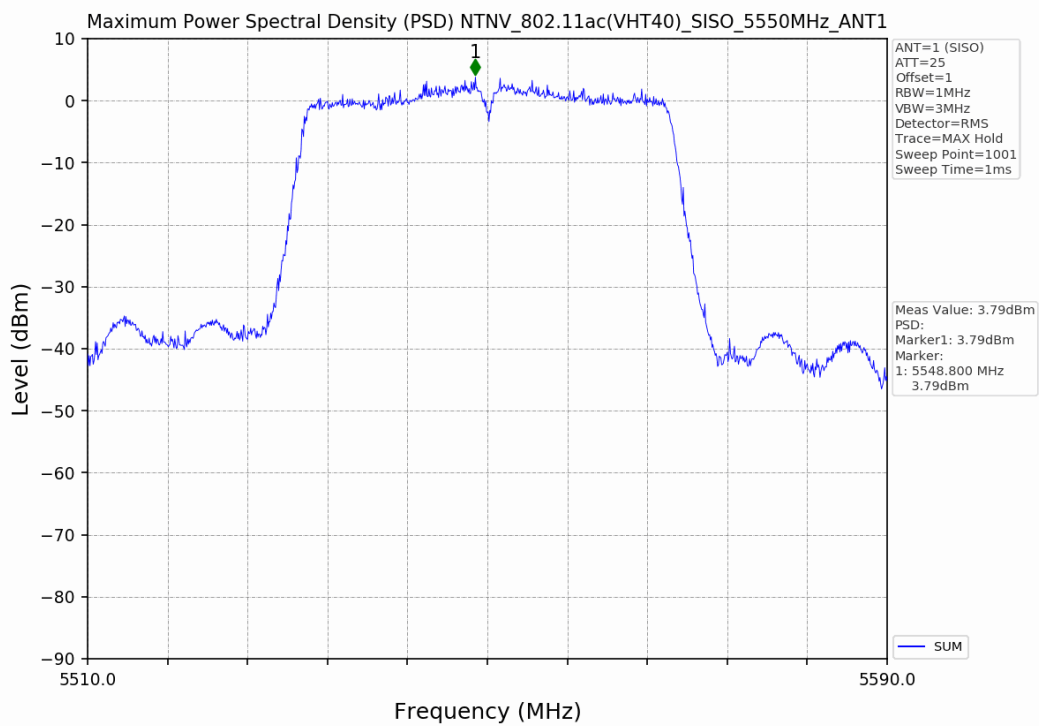
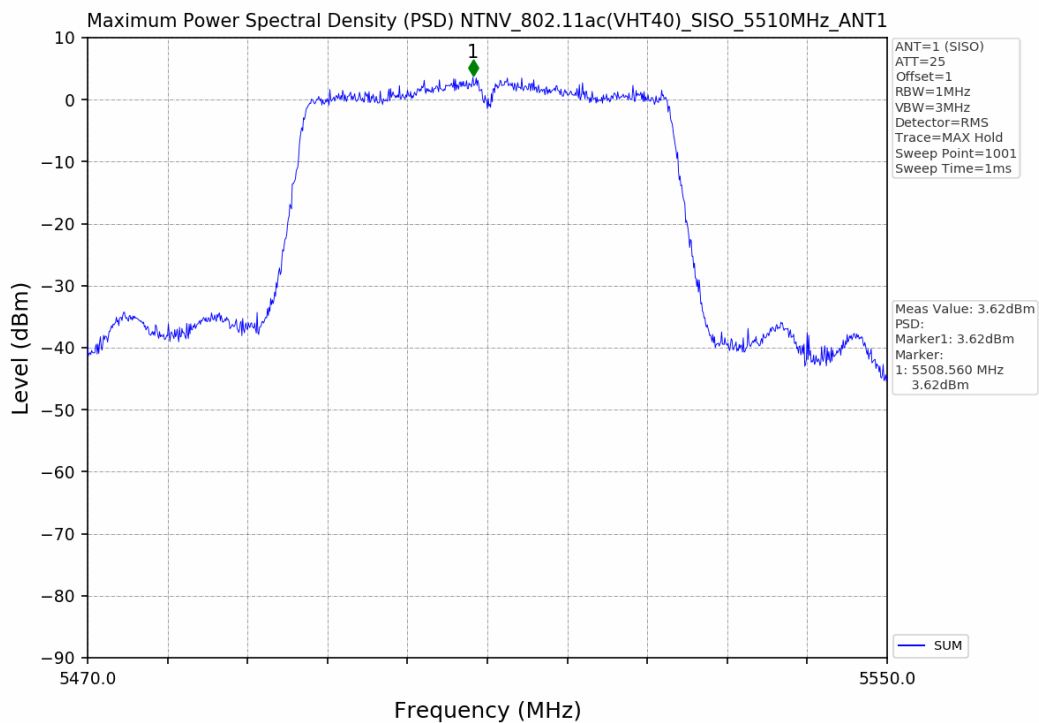


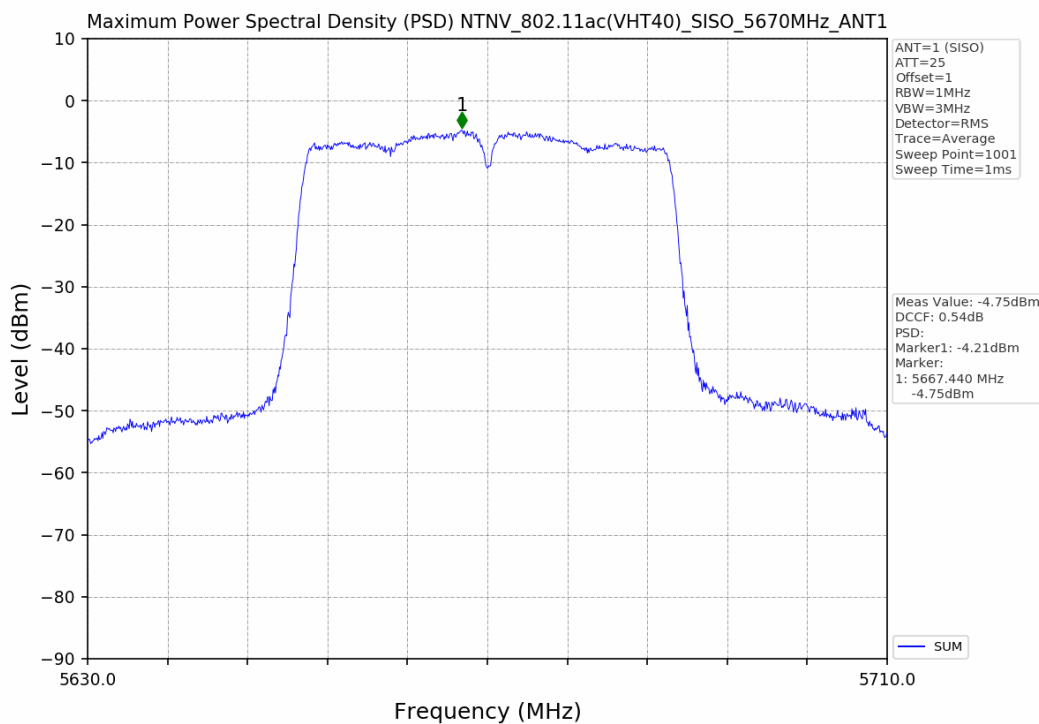
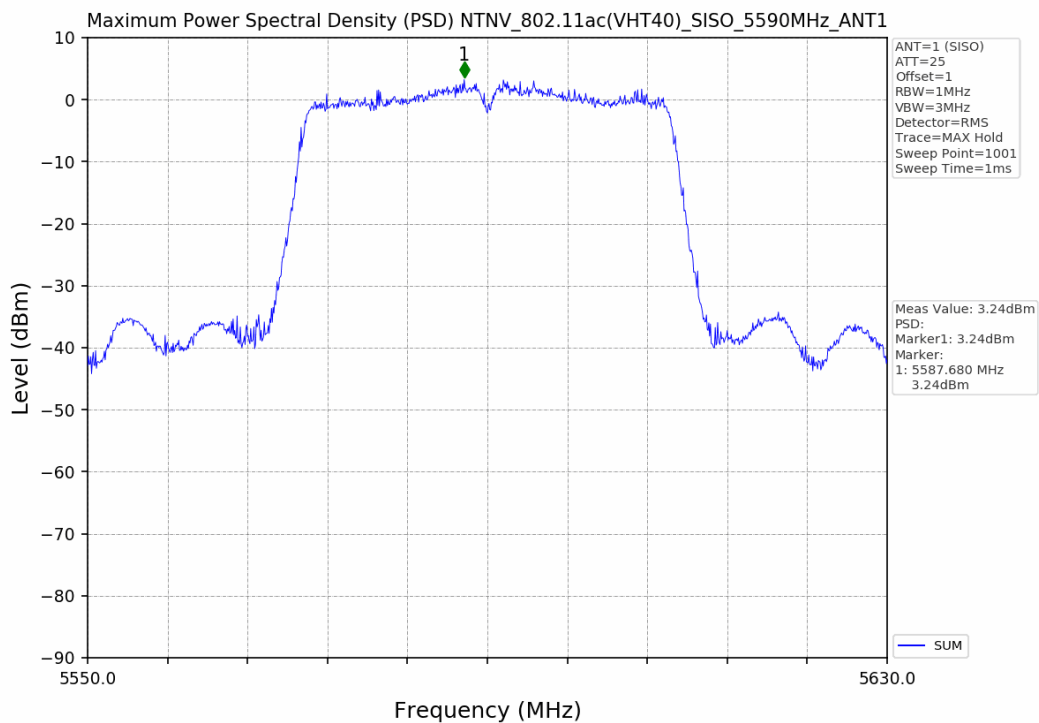


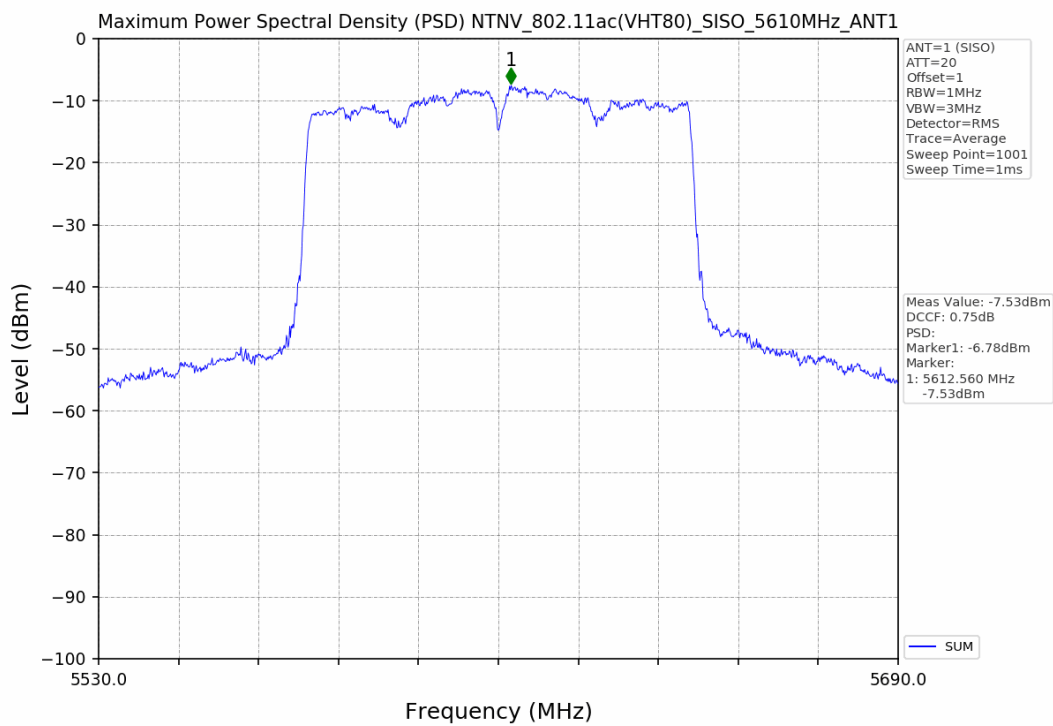
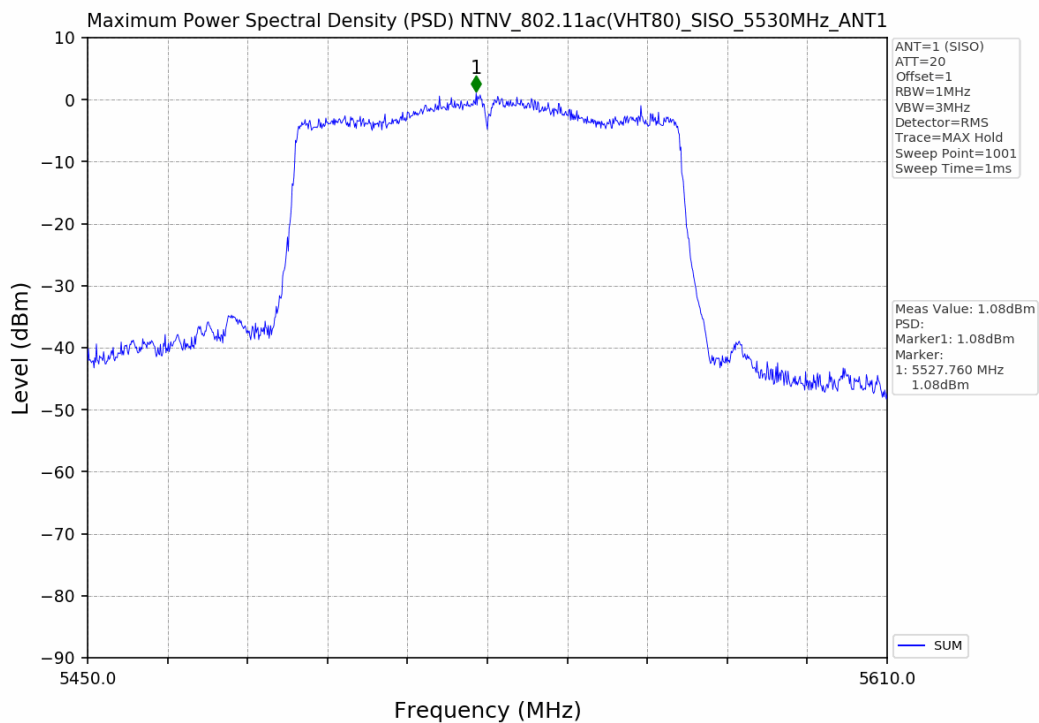












4. Frequency Stability

4.1 Test Result

Reference Frequency: 802.11a channel=100 frequency=5500MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
5.0	-30	68.9	12.56	Within the band of operation	Pass
	-20	61.2	10.82		
	-10	75.6	13.59		
	0	82.8	15.48		
	10	72.0	12.86		
	20	70.6	11.72		
	30	80.8	14.65		
	40	99.1	18.24		
	50	65.4	11.65		
5.5	25	67.5	12.18	Within the band of operation	Pass
4.5	25	92.3	18.07		