

Test Data for 5G_Band 3

Product Name: WIFI module

Test Model: ALX850B

Appendix for 15.407

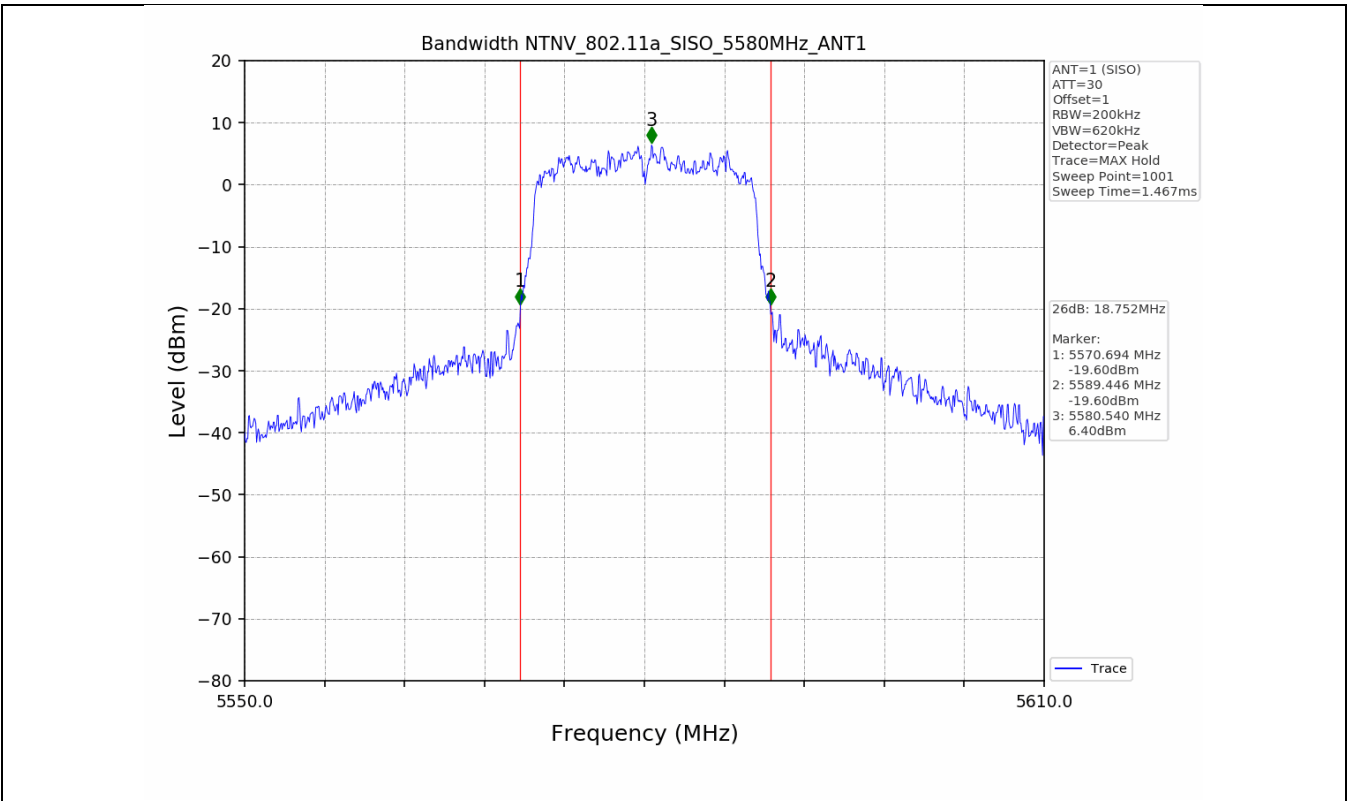
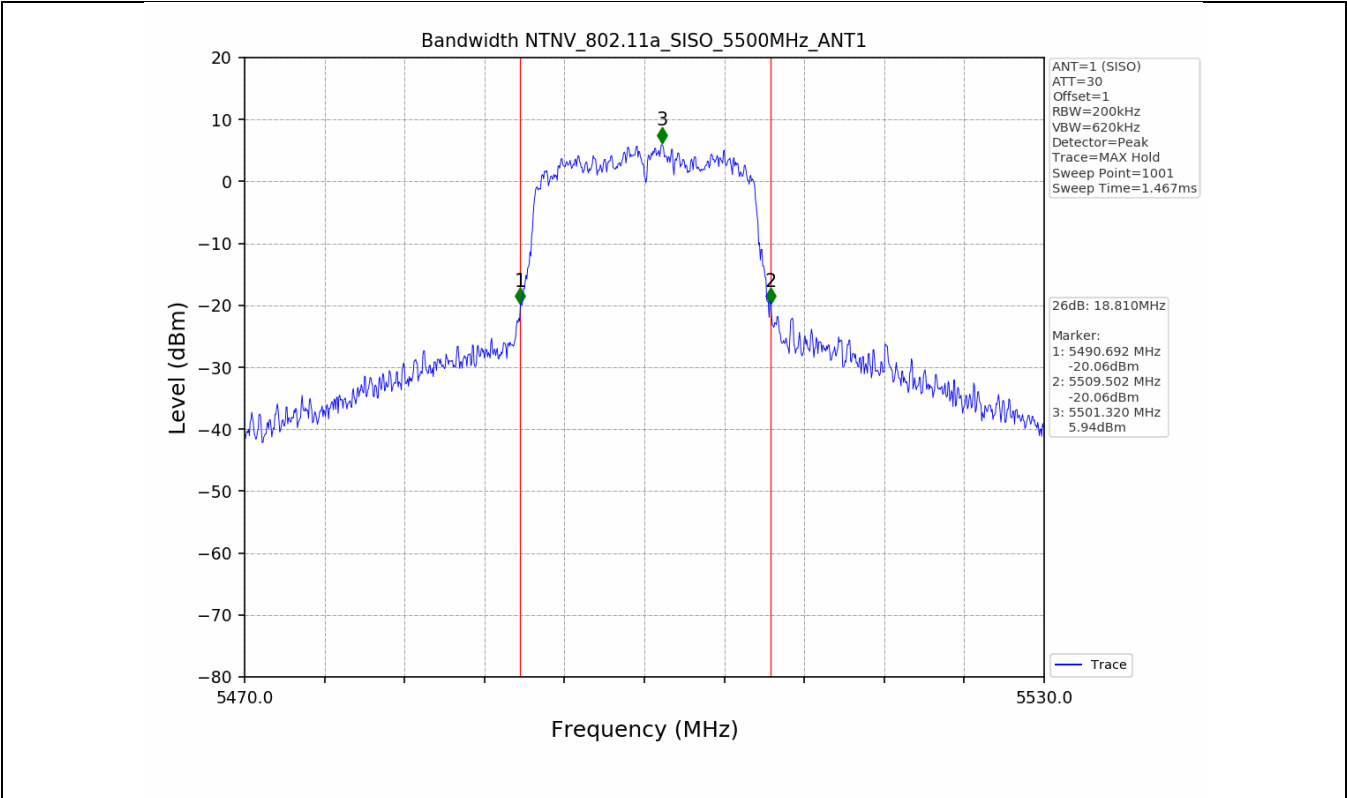
1. Bandwidth

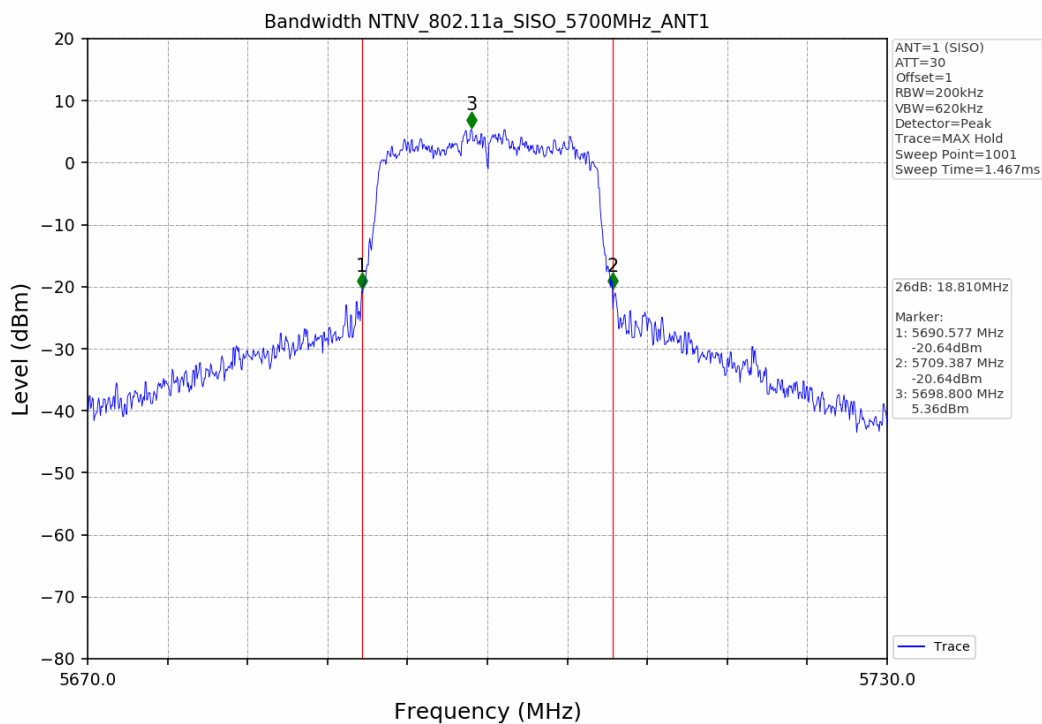
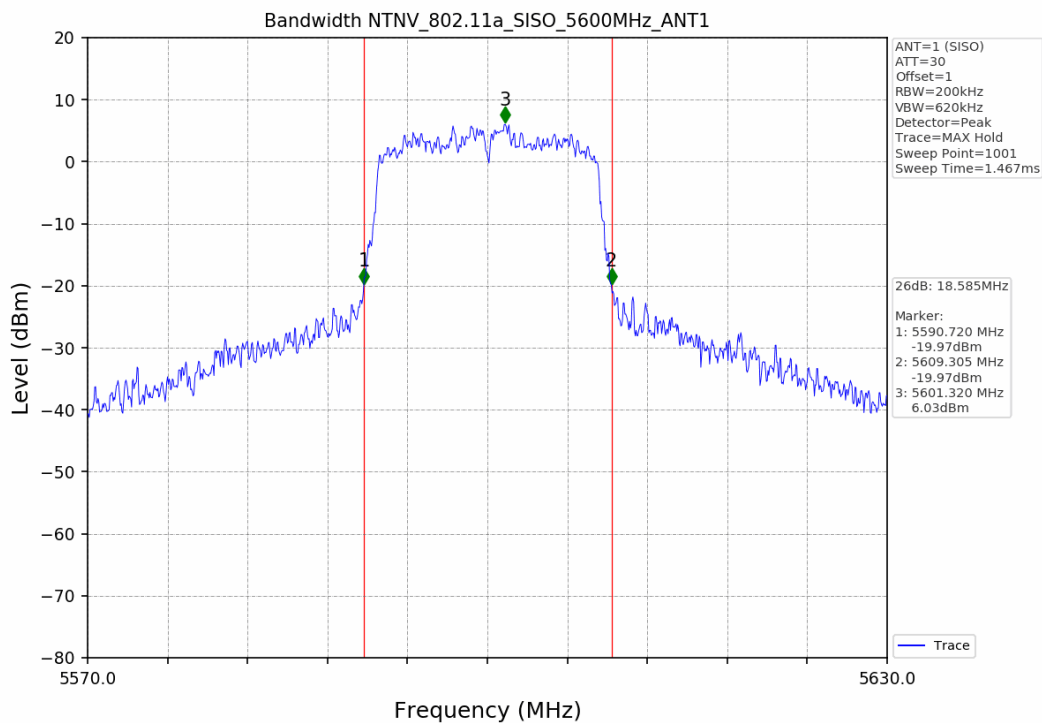
1.1 Test Result

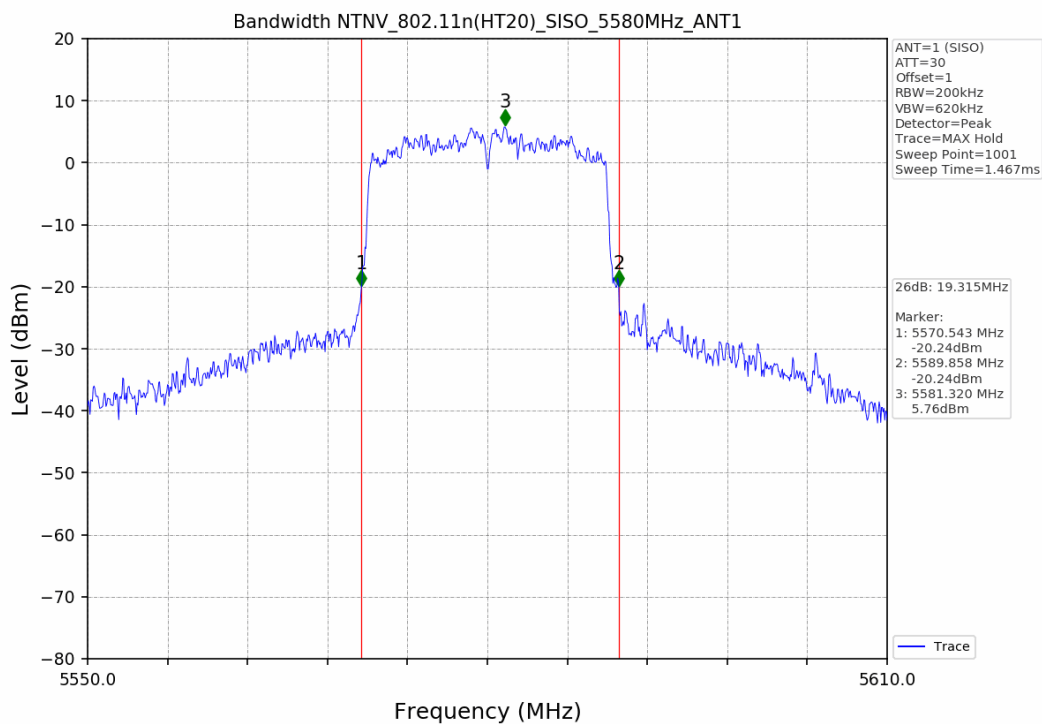
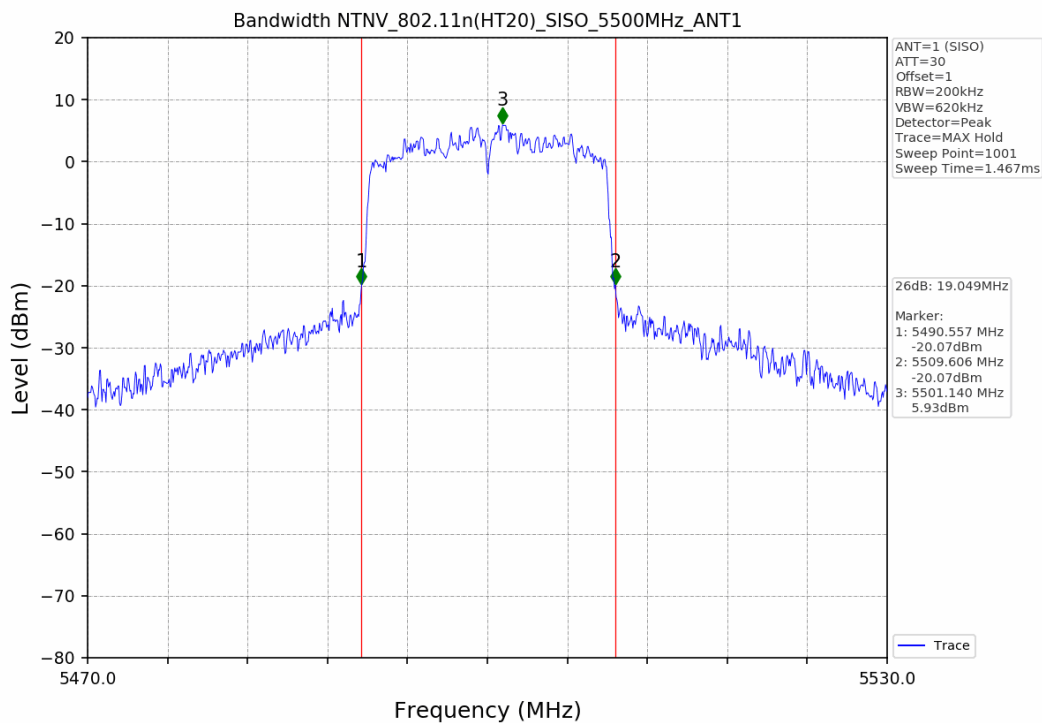
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5500	SISO	1	18.810	Only for Report Use	PASS
	5580	SISO	1	18.752	Only for Report Use	PASS
	5600	SISO	1	18.585	Only for Report Use	PASS
	5700	SISO	1	18.810	Only for Report Use	PASS
802.11n(HT20)	5500	SISO	1	19.049	Only for Report Use	PASS
	5580	SISO	1	19.315	Only for Report Use	PASS
	5600	SISO	1	18.924	Only for Report Use	PASS
	5700	SISO	1	18.856	Only for Report Use	PASS
802.11n(HT40)	5510	SISO	1	38.880	Only for Report Use	PASS
	5550	SISO	1	38.847	Only for Report Use	PASS
	5590	SISO	1	38.685	Only for Report Use	PASS
	5670	SISO	1	39.002	Only for Report Use	PASS

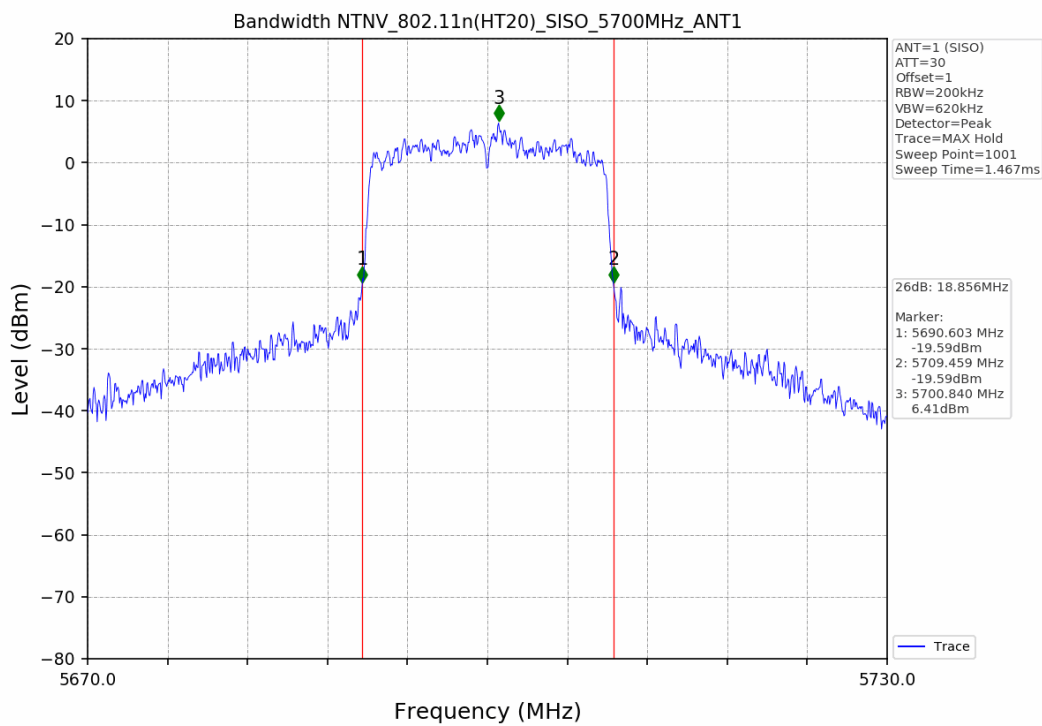
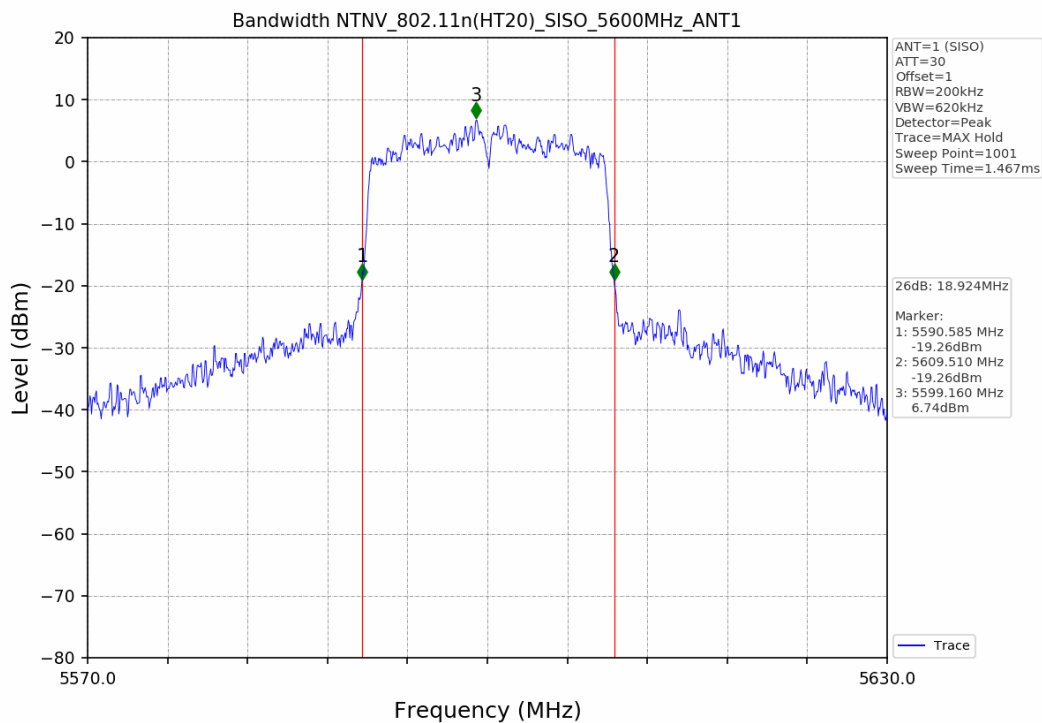
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5500	SISO	1	16.523	Only for Report Use
	5580	SISO	1	16.597	Only for Report Use
	5600	SISO	1	16.542	Only for Report Use
	5700	SISO	1	16.497	Only for Report Use
802.11n(HT20)	5500	SISO	1	17.678	Only for Report Use
	5580	SISO	1	17.586	Only for Report Use
	5600	SISO	1	17.631	Only for Report Use
	5700	SISO	1	17.609	Only for Report Use
802.11n(HT40)	5510	SISO	1	36.192	Only for Report Use
	5550	SISO	1	36.254	Only for Report Use
	5590	SISO	1	36.241	Only for Report Use
	5670	SISO	1	36.114	Only for Report Use

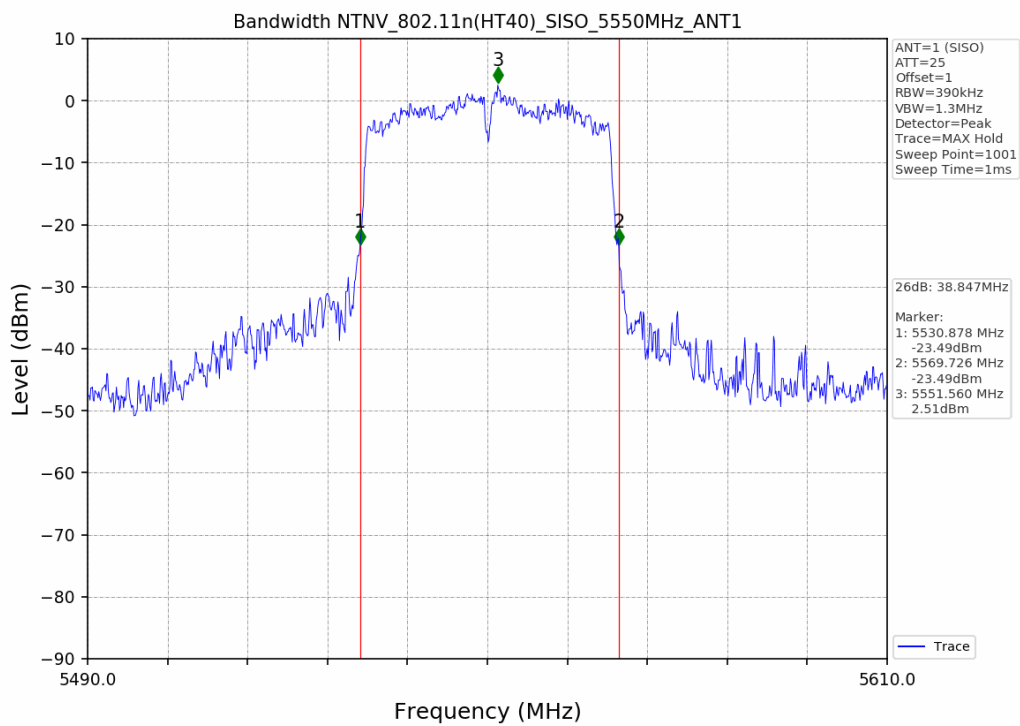
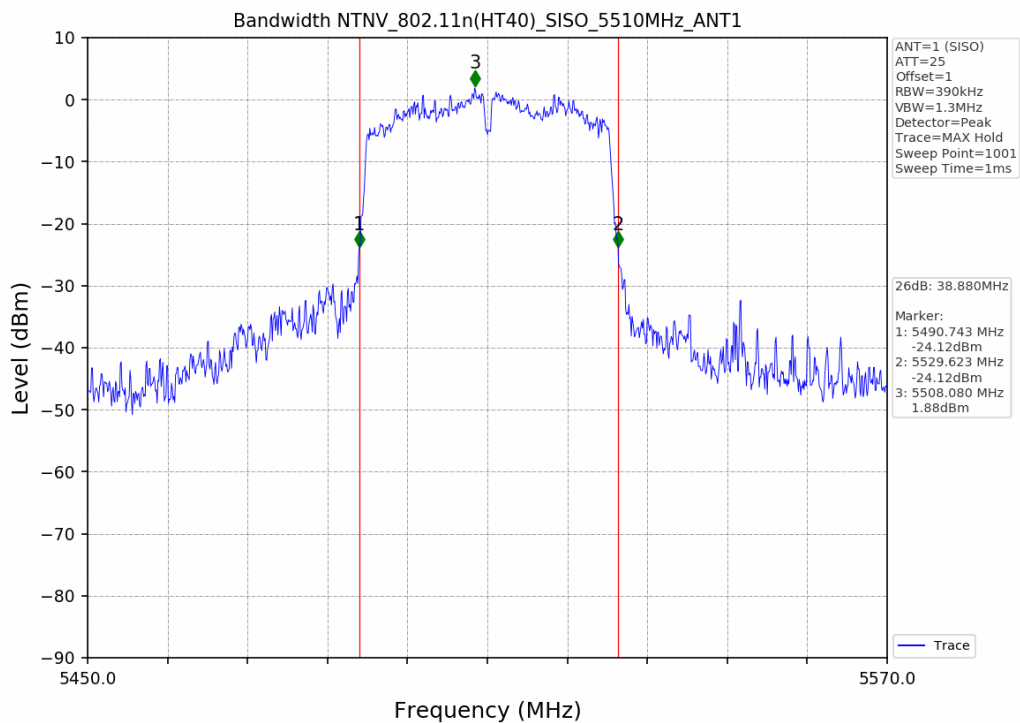
1.2 Test Graph - Emission Bandwidth

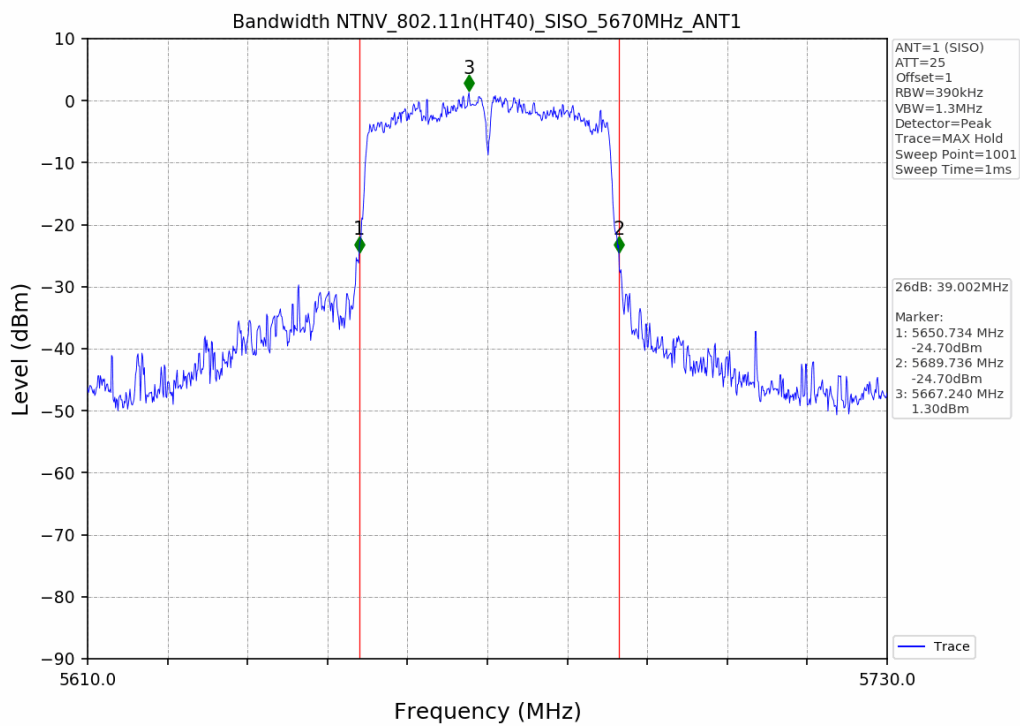
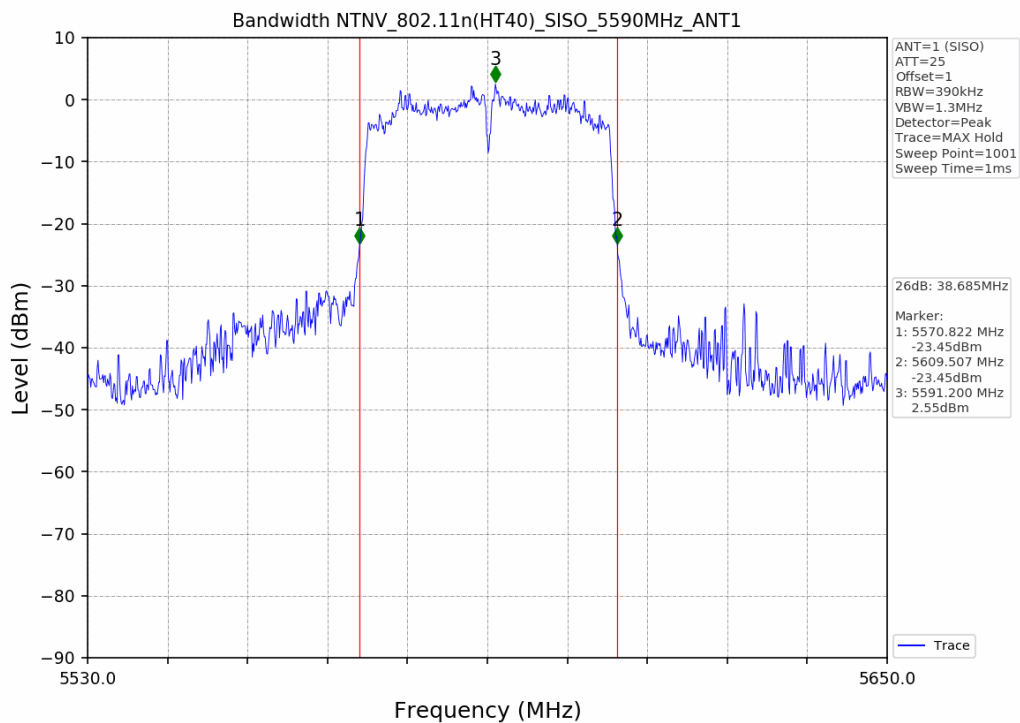




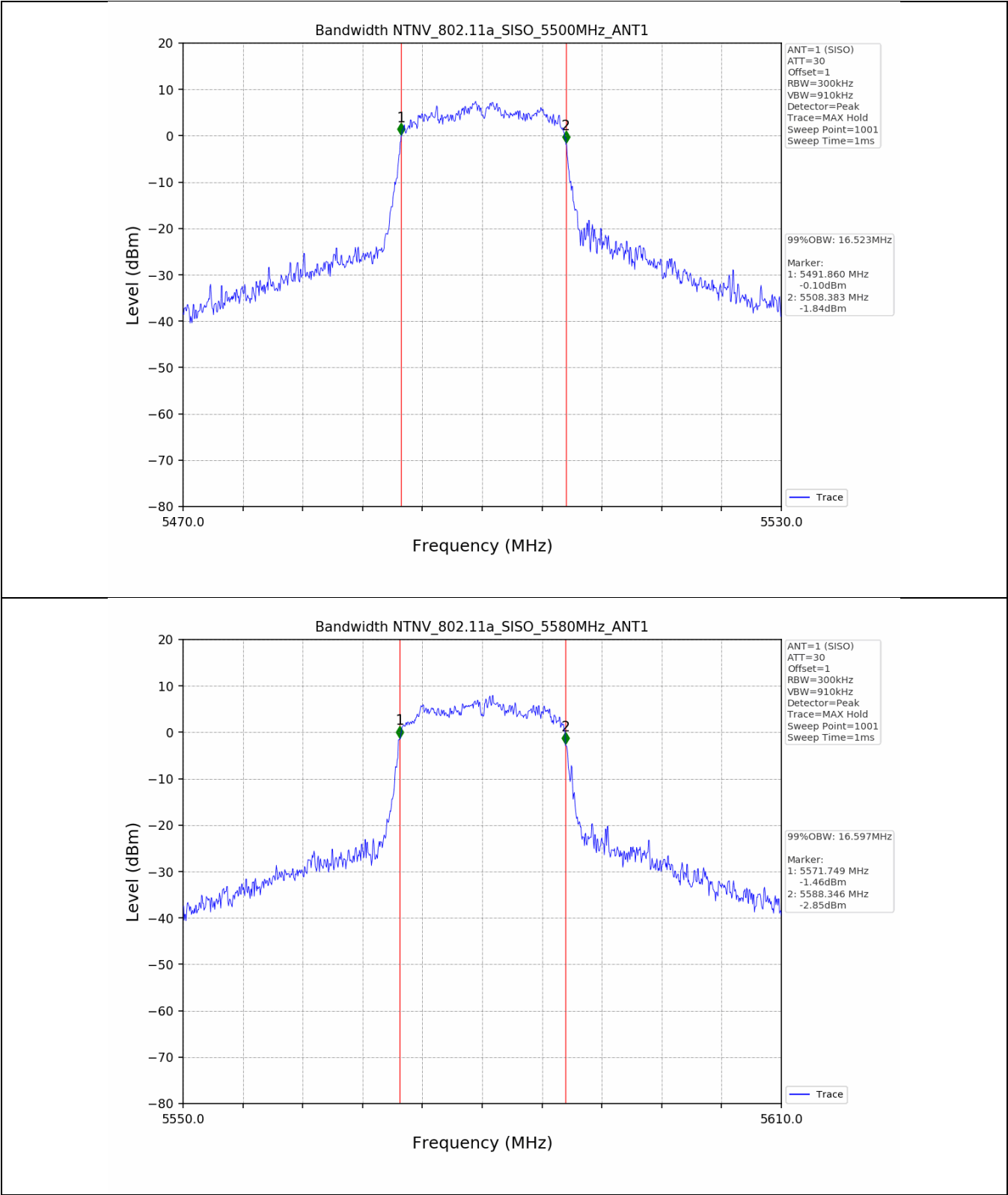


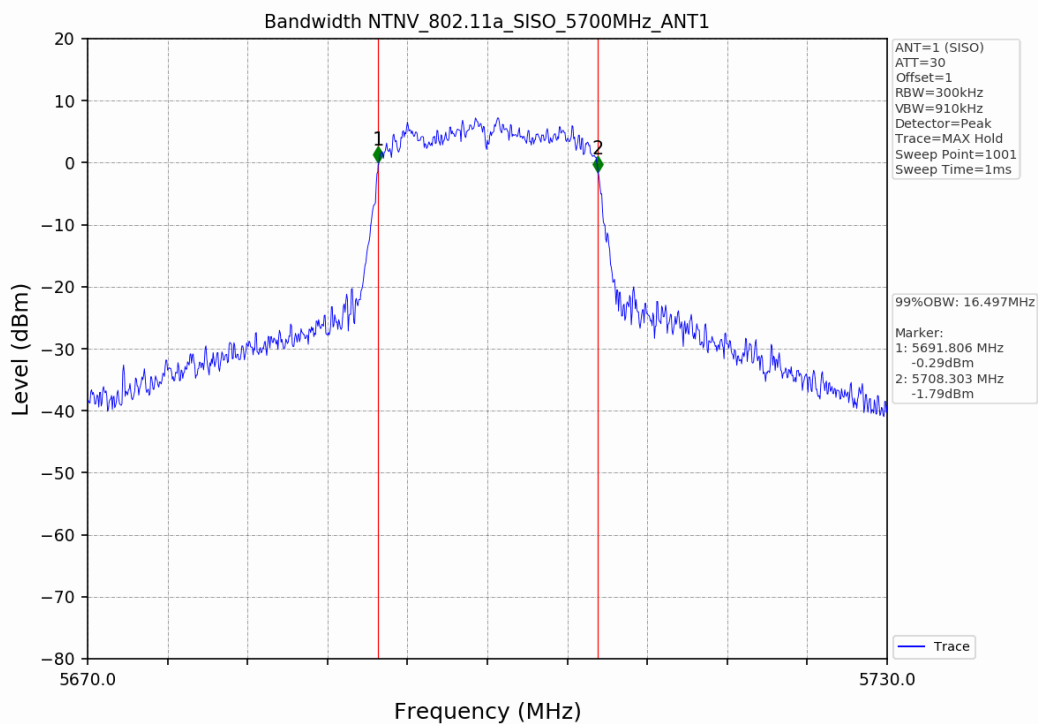
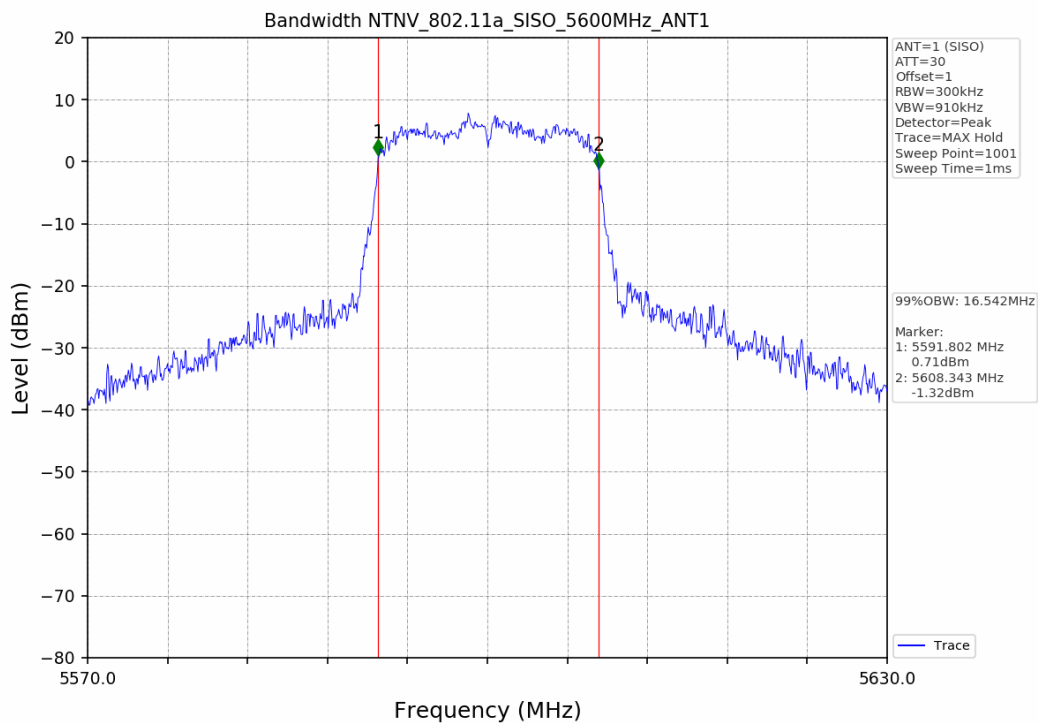


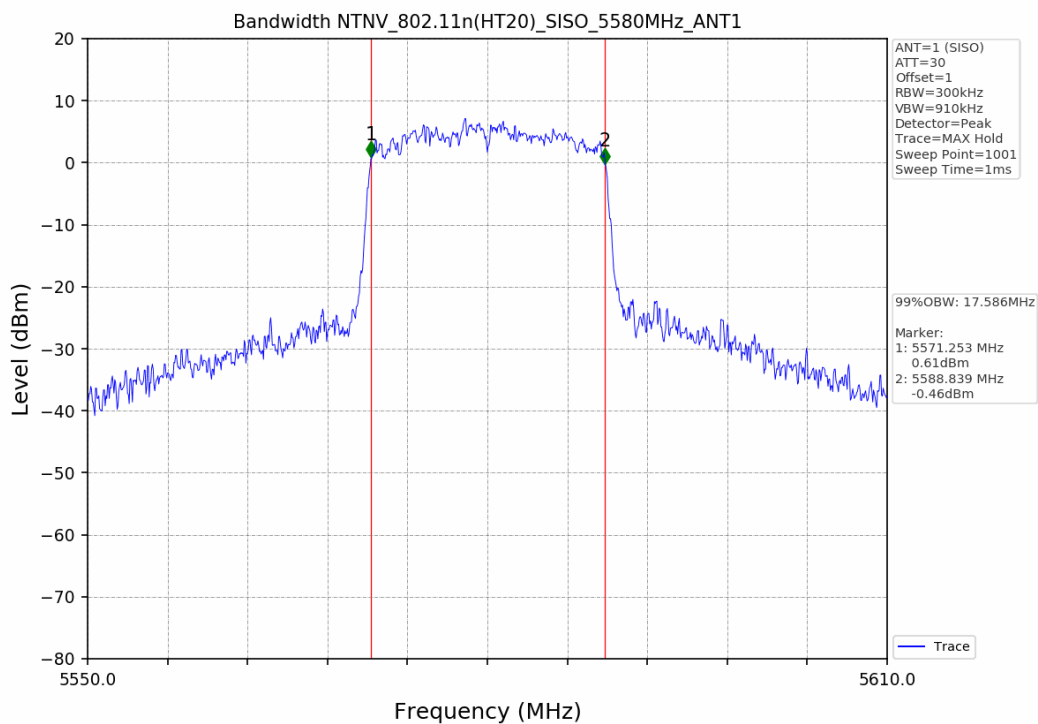
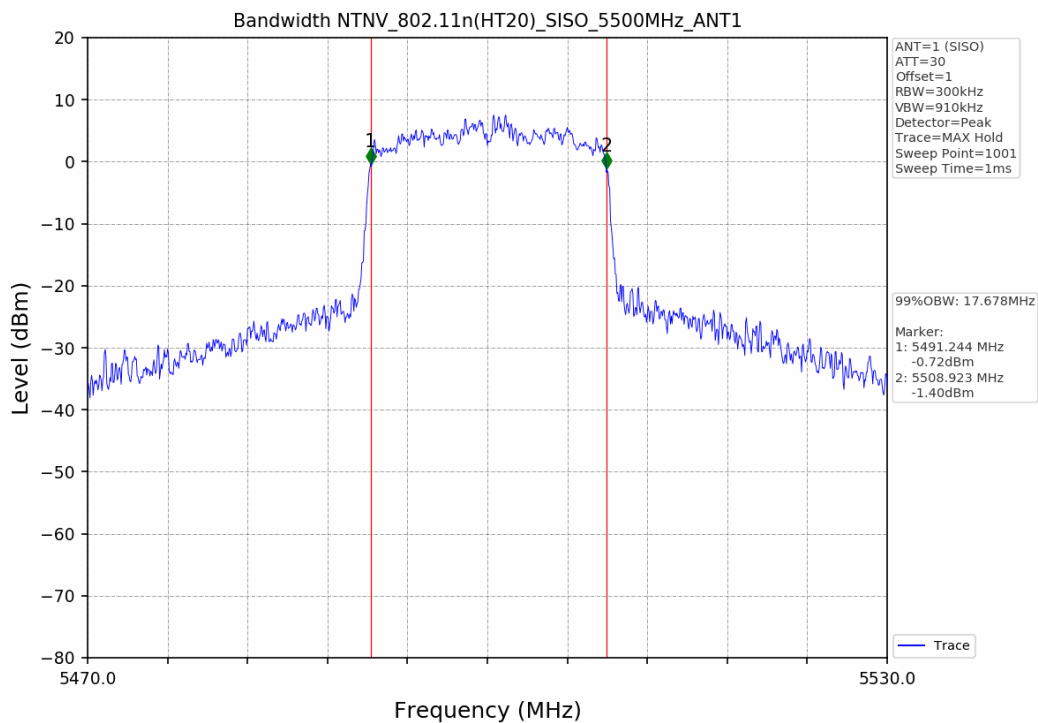


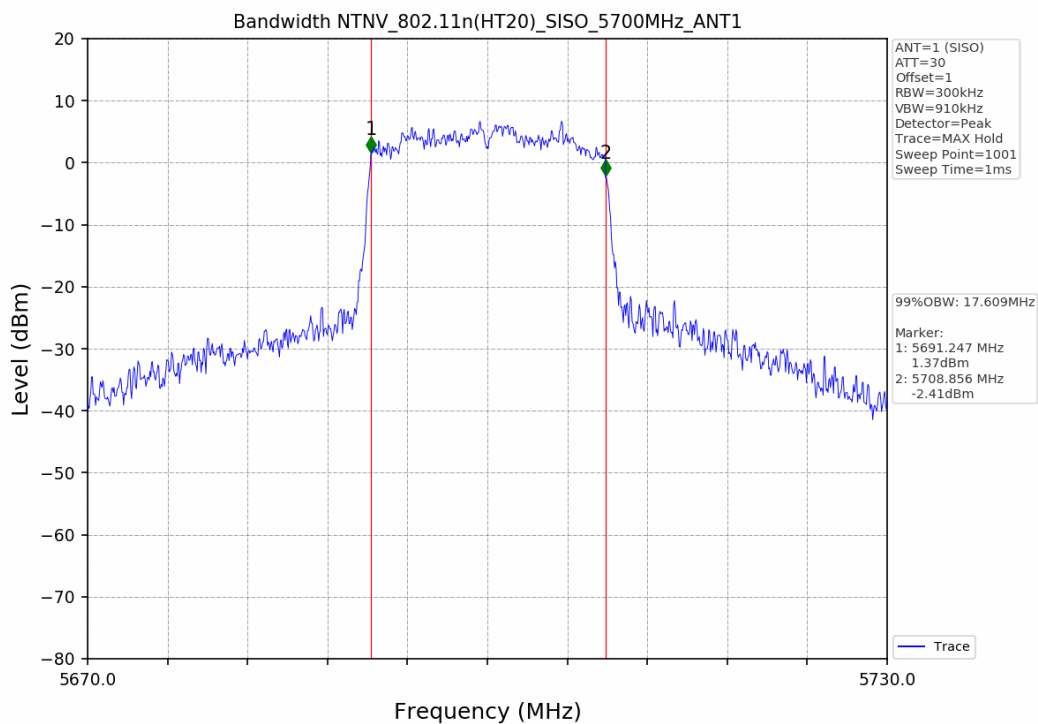
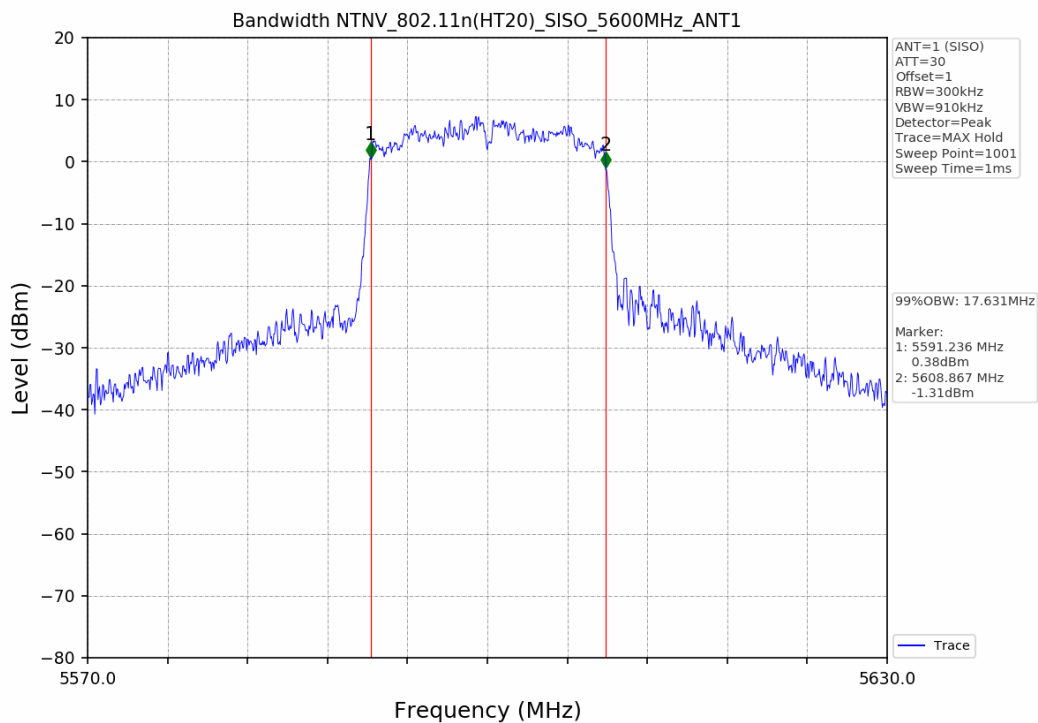


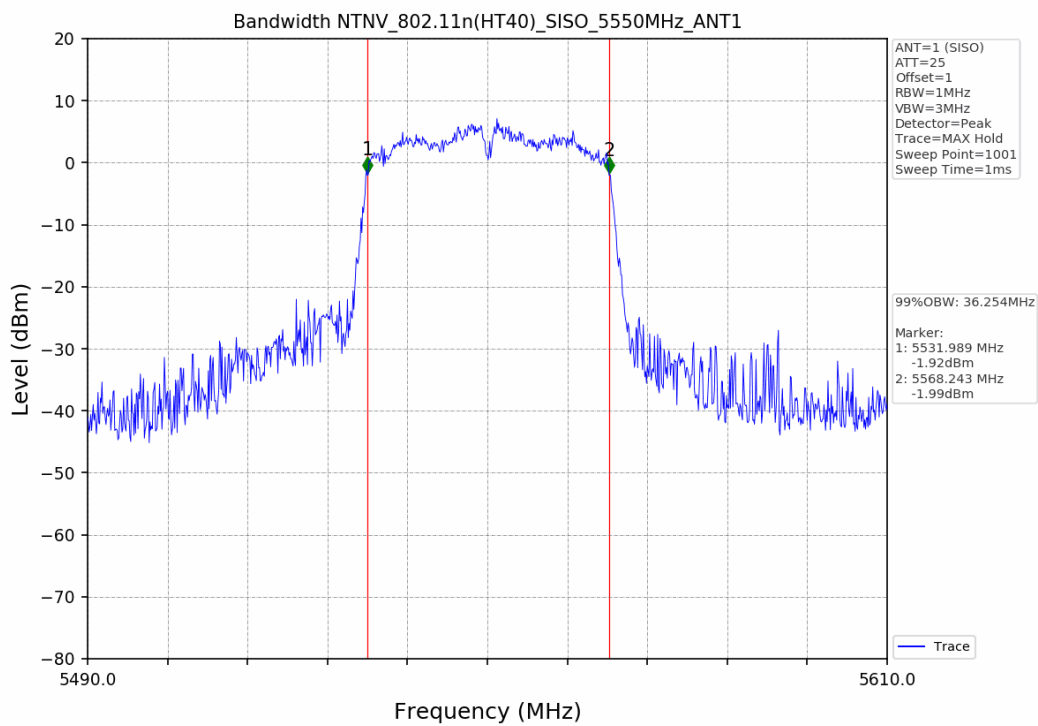
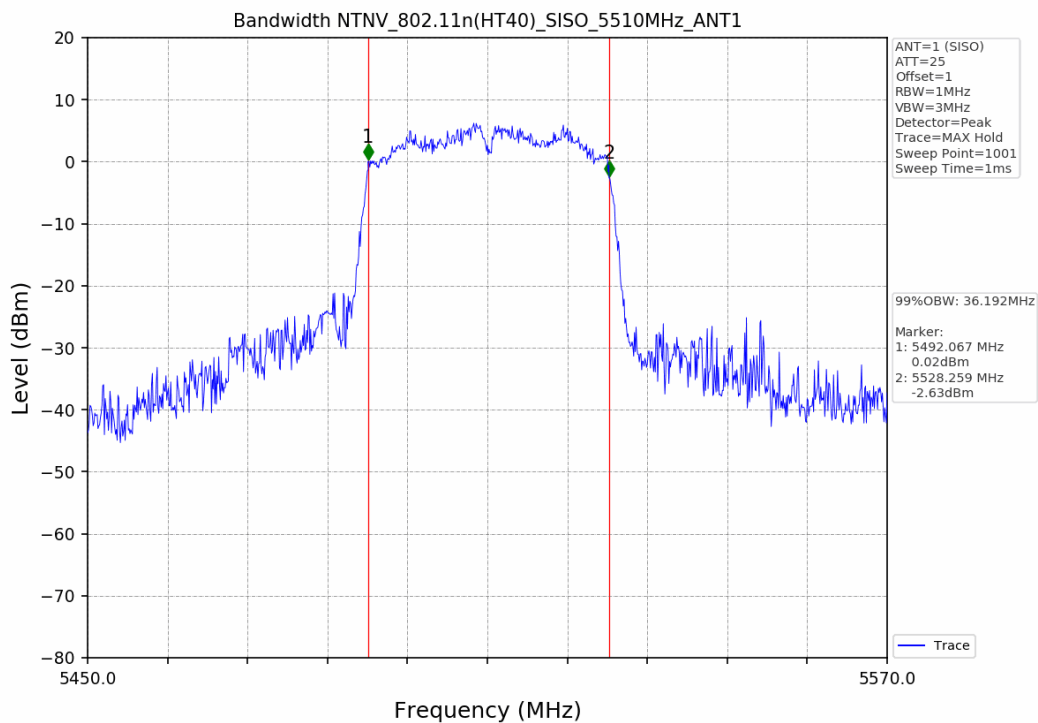
1.3 Test Graph - 99% Occupied Bandwidth

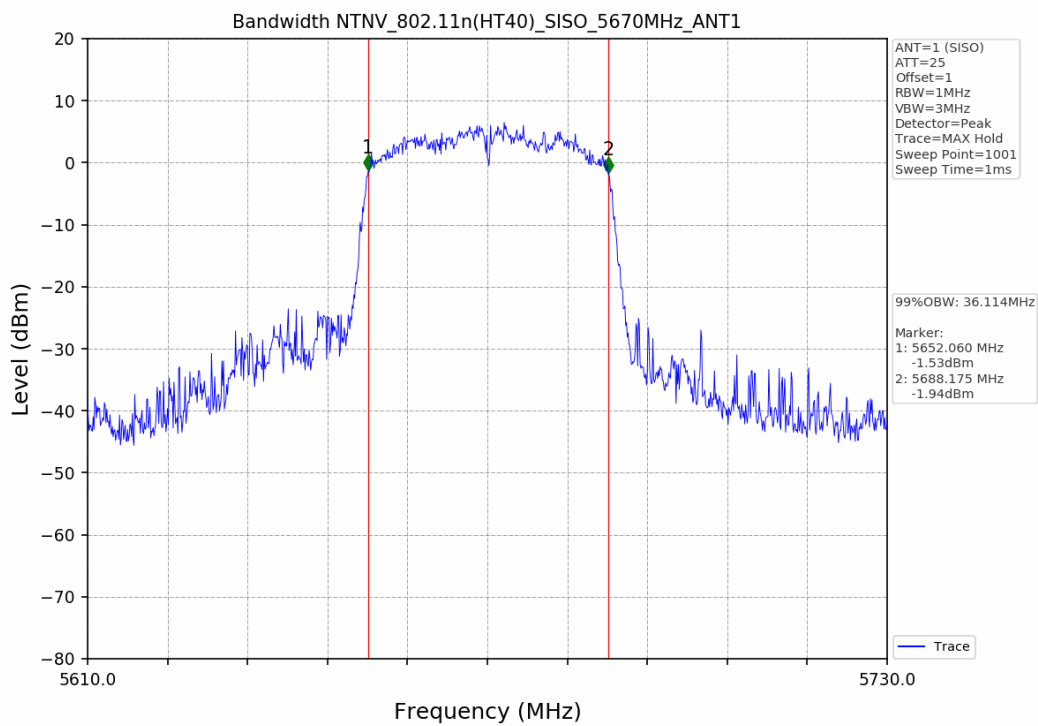
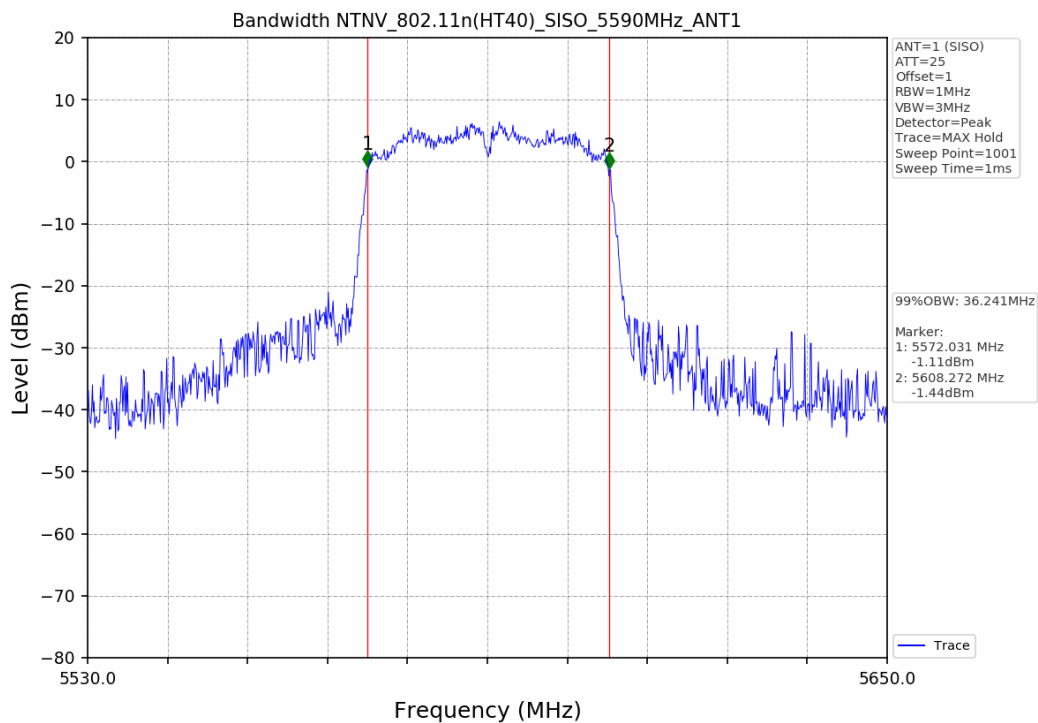










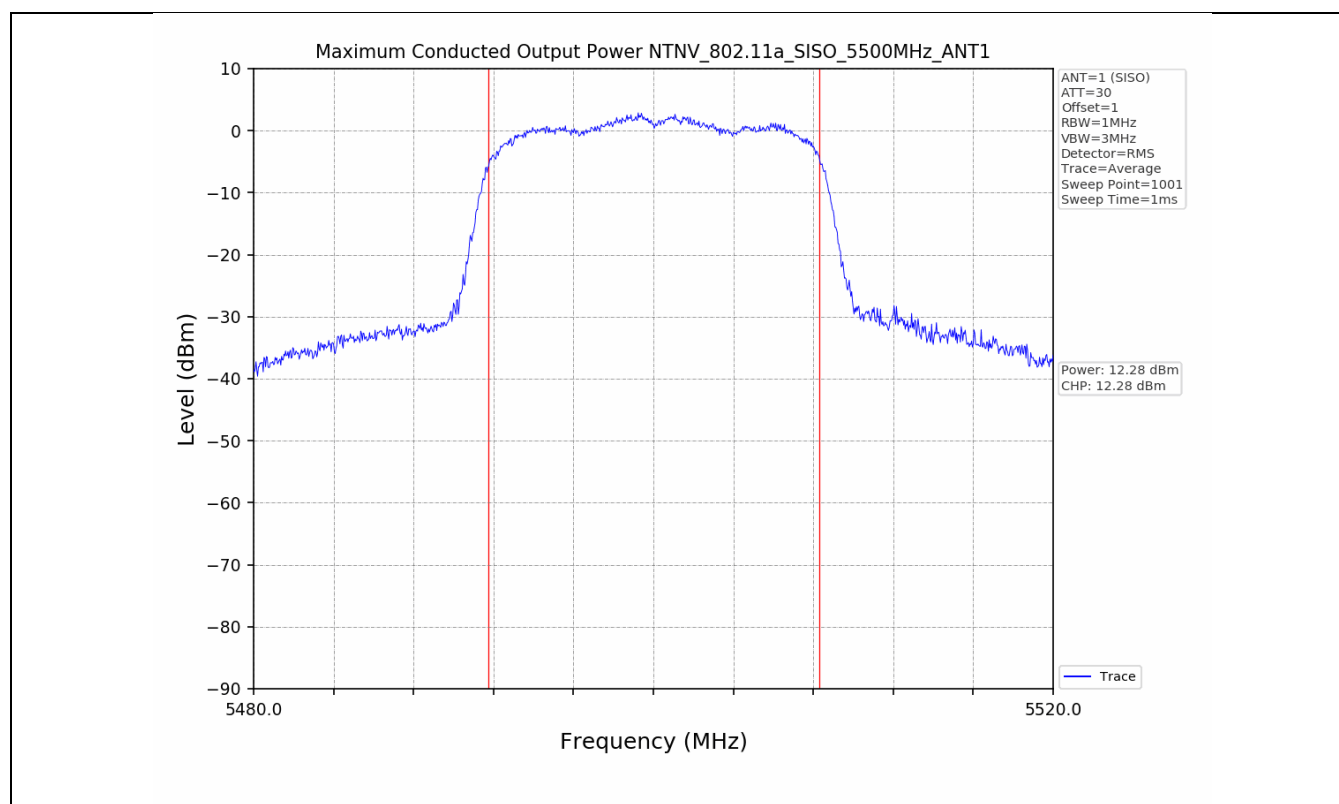


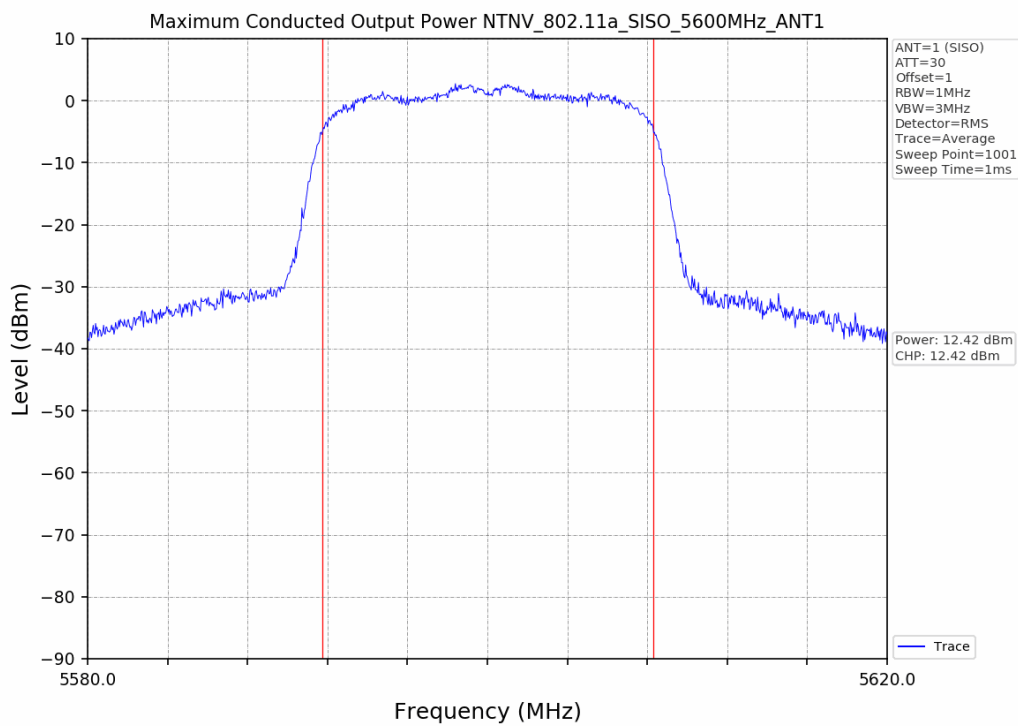
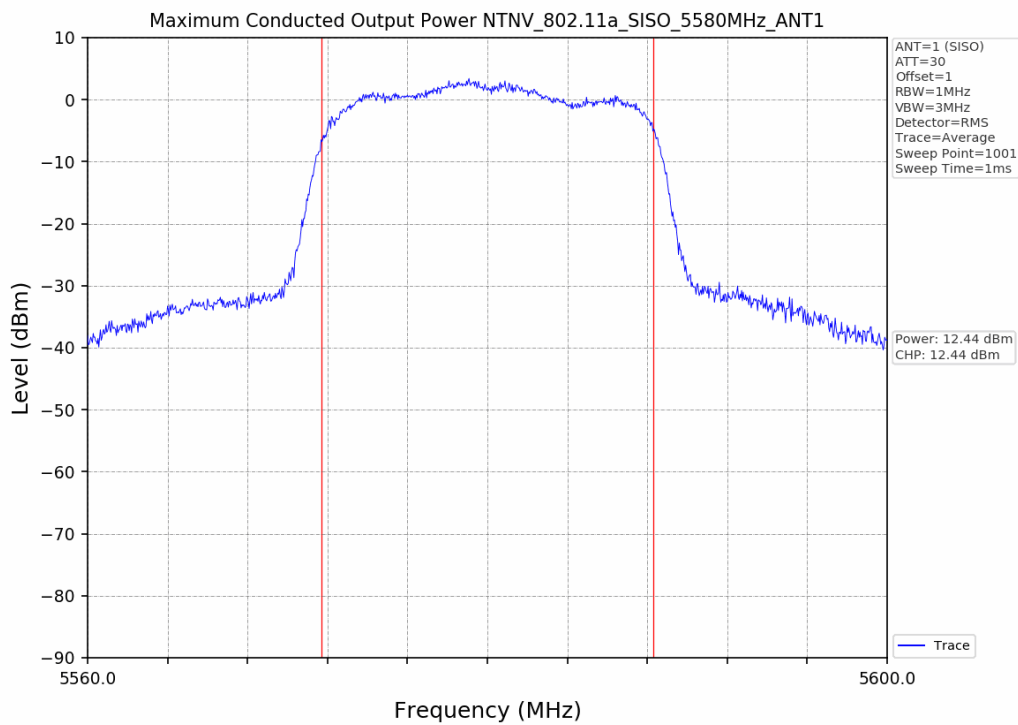
2. Maximum Conducted Output Power

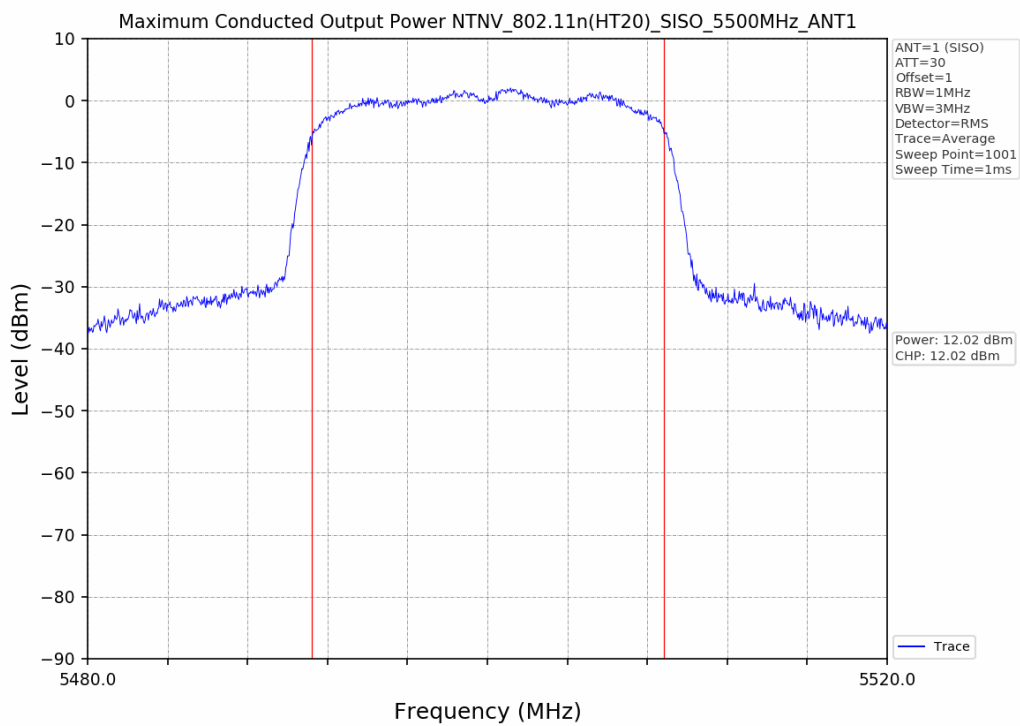
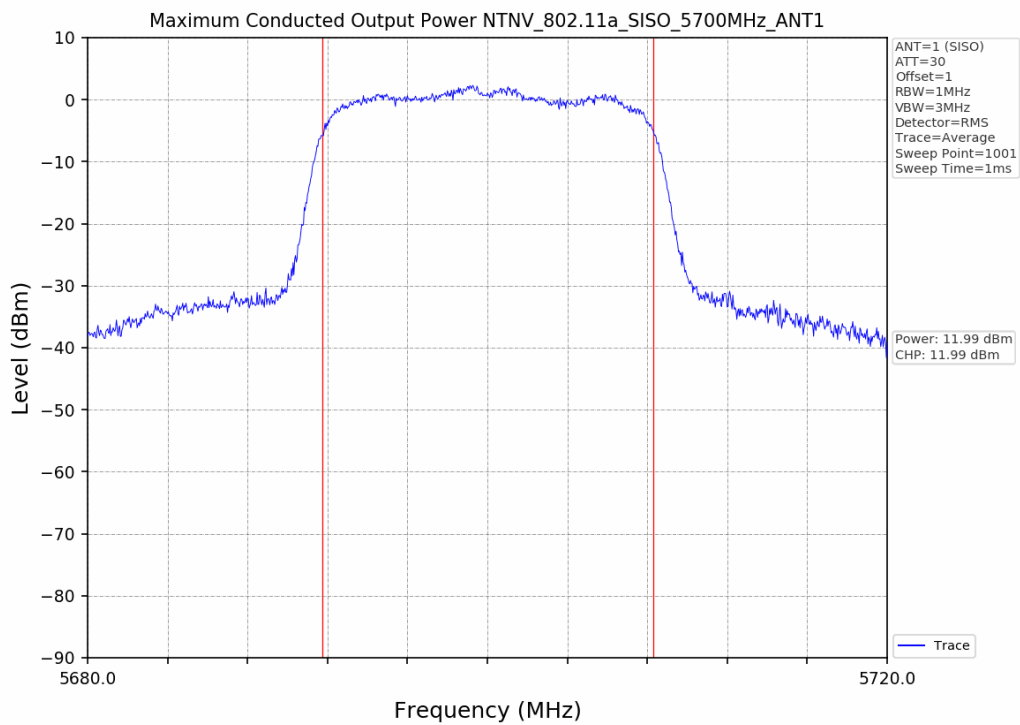
2.1 Test Result

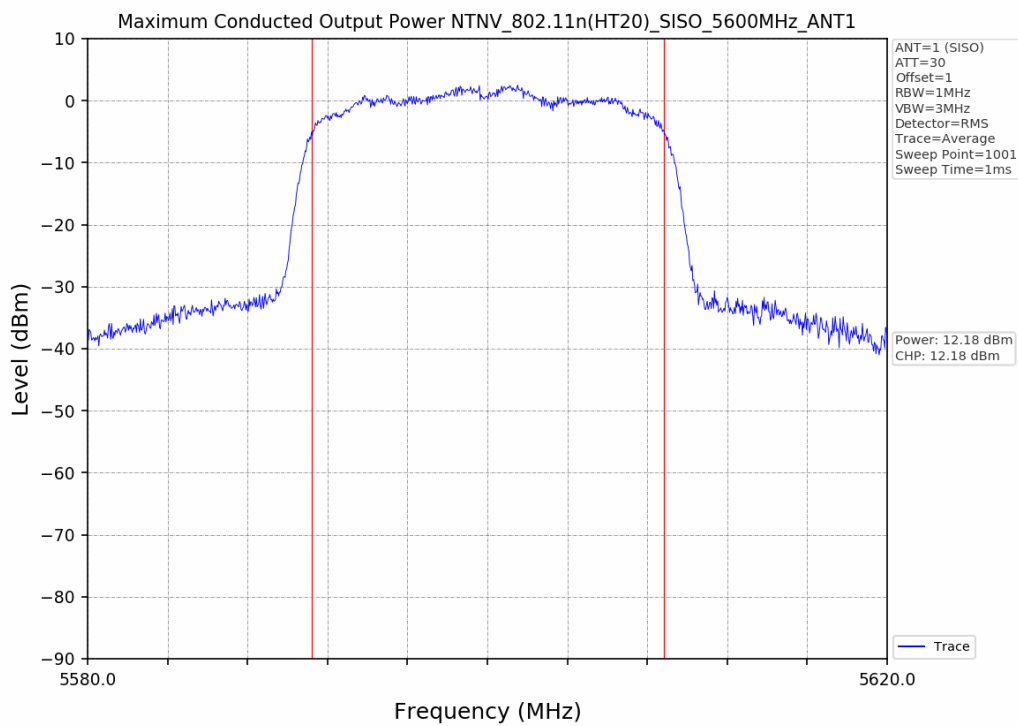
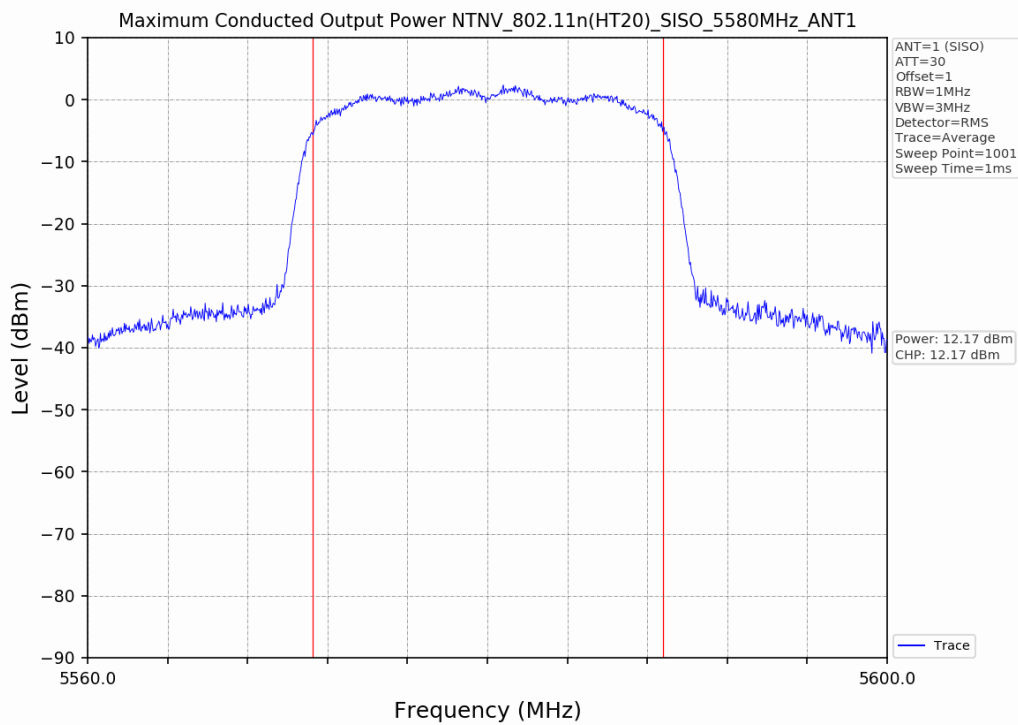
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5500	SISO	12.28	≤ 23.74	PASS
	5580	SISO	12.44	≤ 23.73	PASS
	5600	SISO	12.42	≤ 23.69	PASS
	5700	SISO	11.99	≤ 23.74	PASS
802.11n(HT20)	5500	SISO	12.02	≤ 23.80	PASS
	5580	SISO	12.17	≤ 23.86	PASS
	5600	SISO	12.18	≤ 23.77	PASS
	5700	SISO	11.74	≤ 23.75	PASS
802.11n(HT40)	5510	SISO	6.81	≤ 23.98	PASS
	5550	SISO	7.02	≤ 23.98	PASS
	5590	SISO	7.03	≤ 23.98	PASS
	5670	SISO	6.85	≤ 23.98	PASS

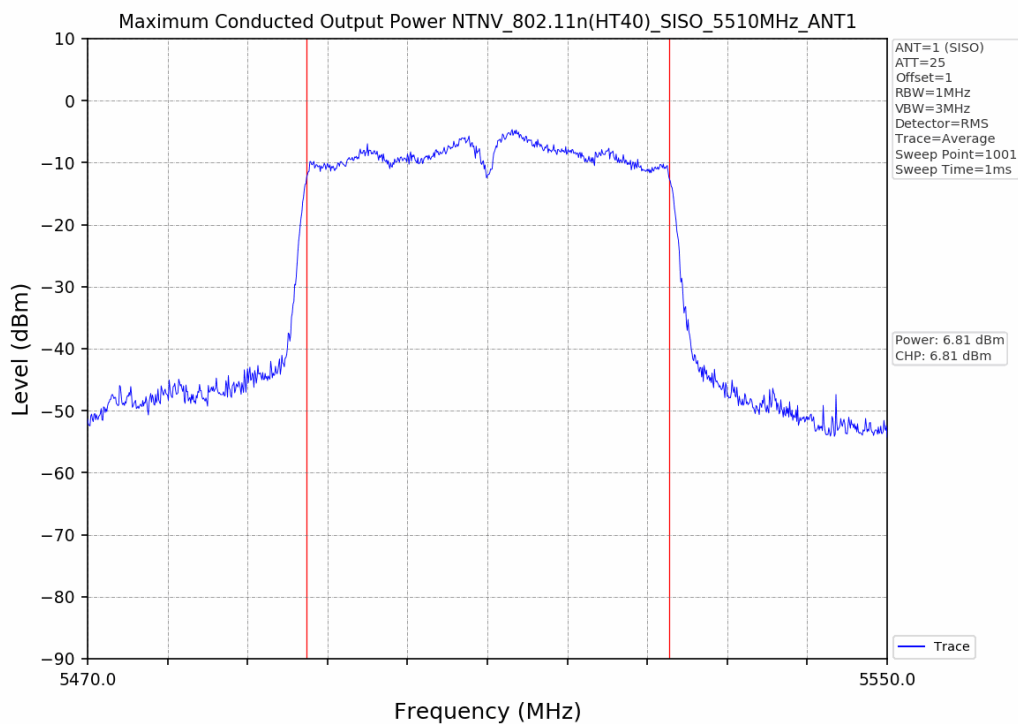
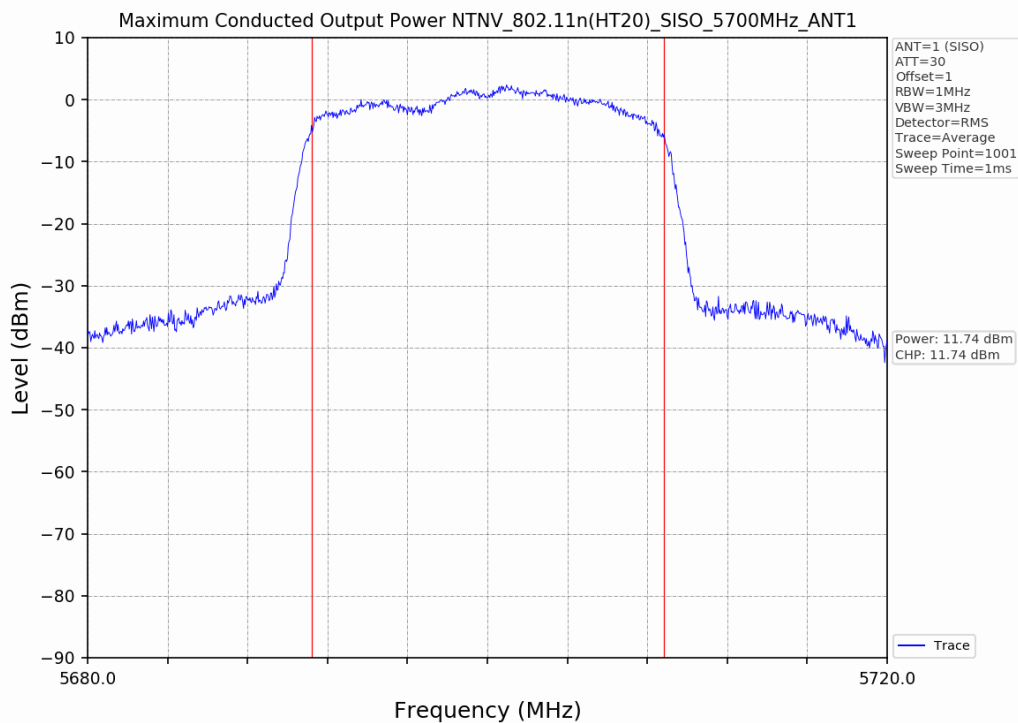
2.2 Test Graph

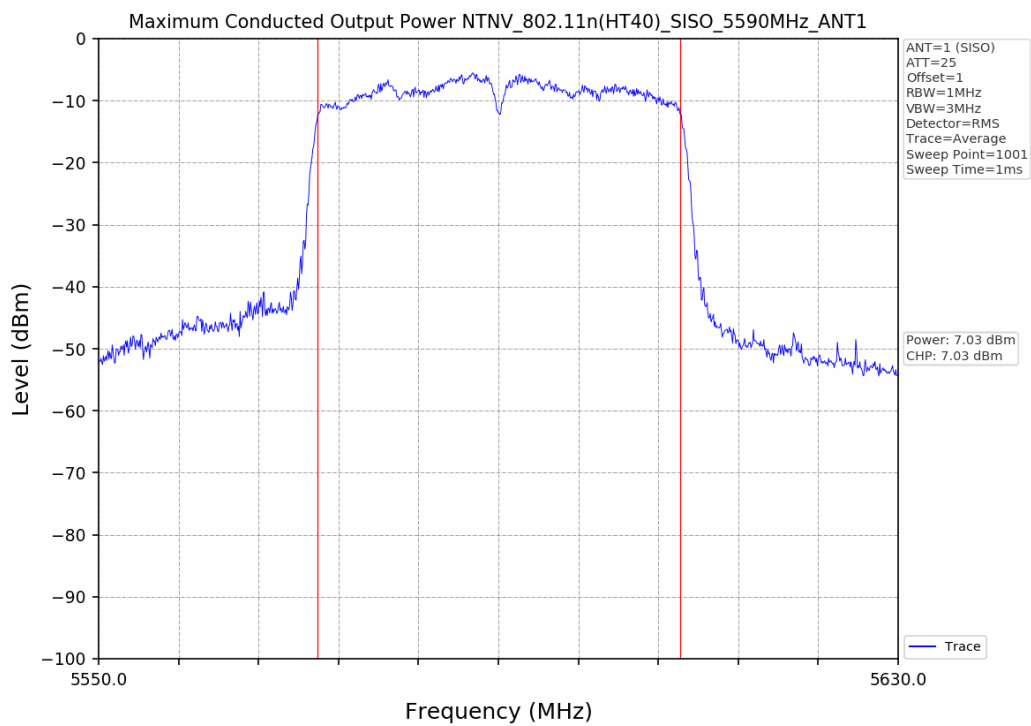
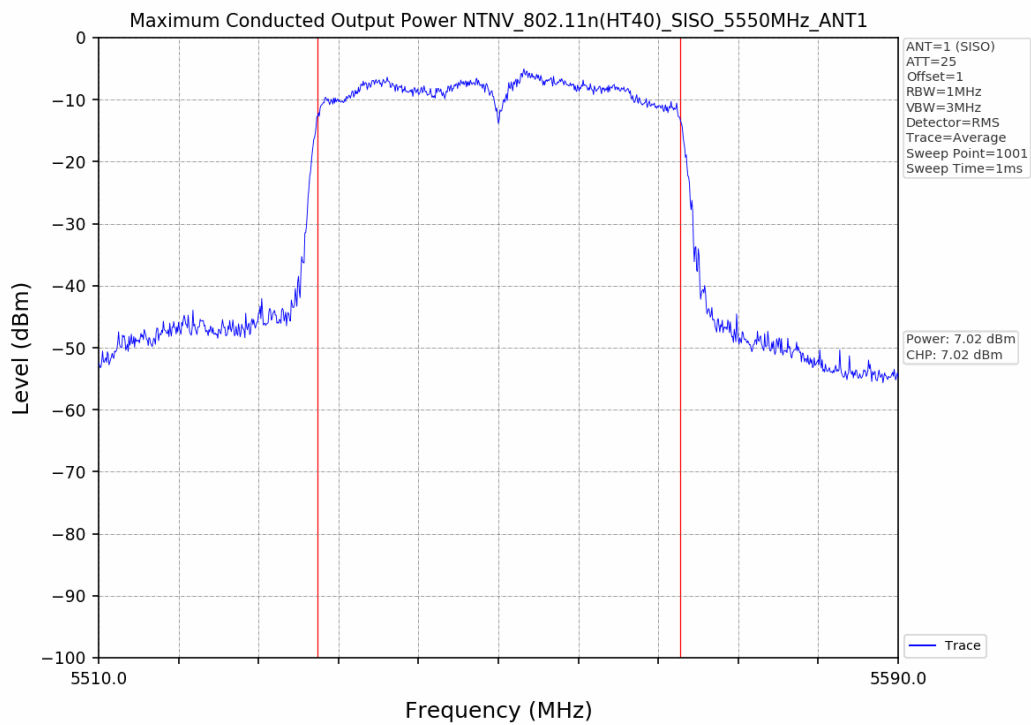


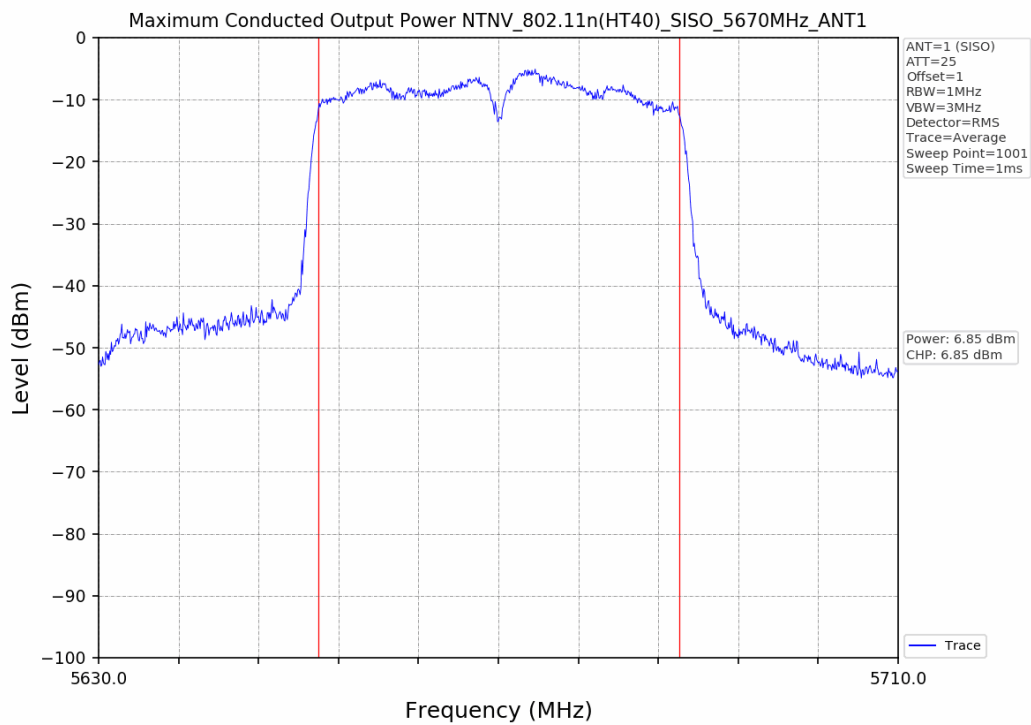










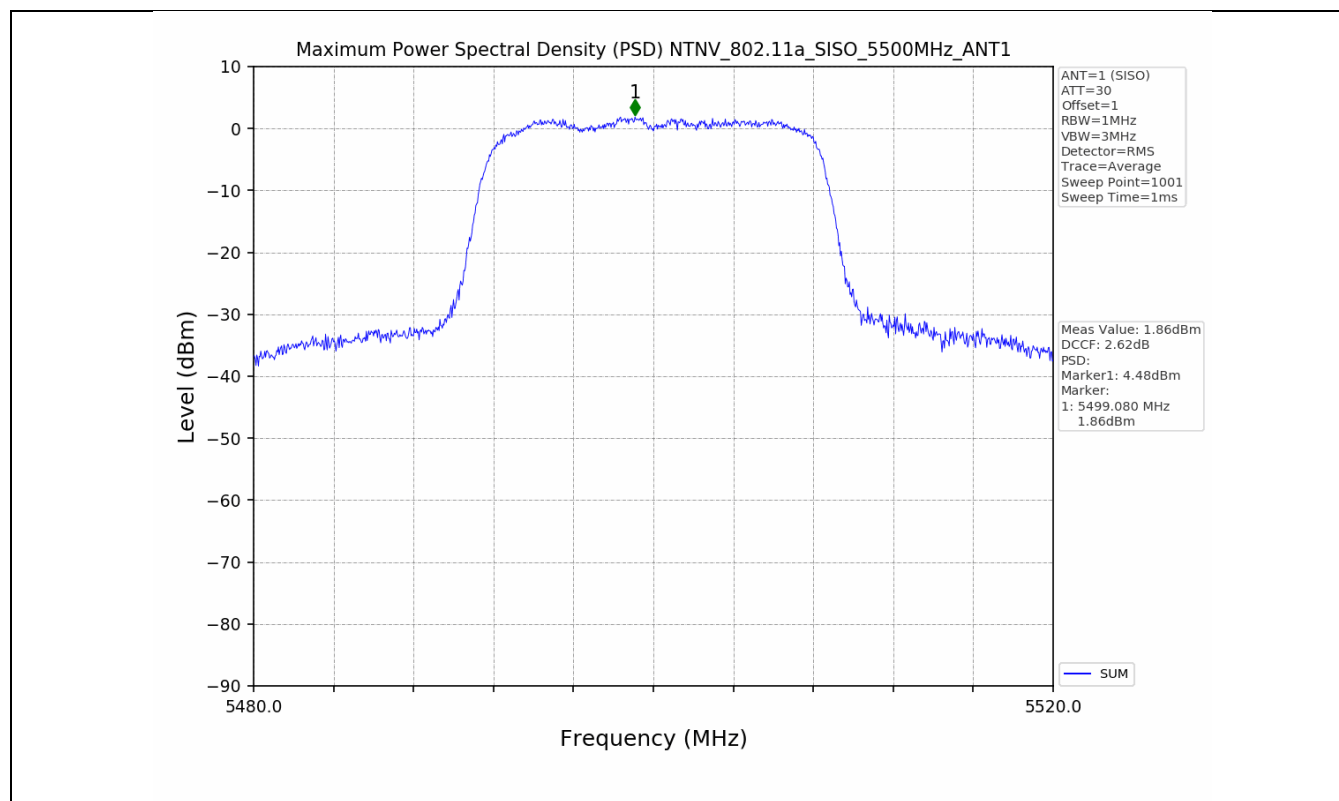


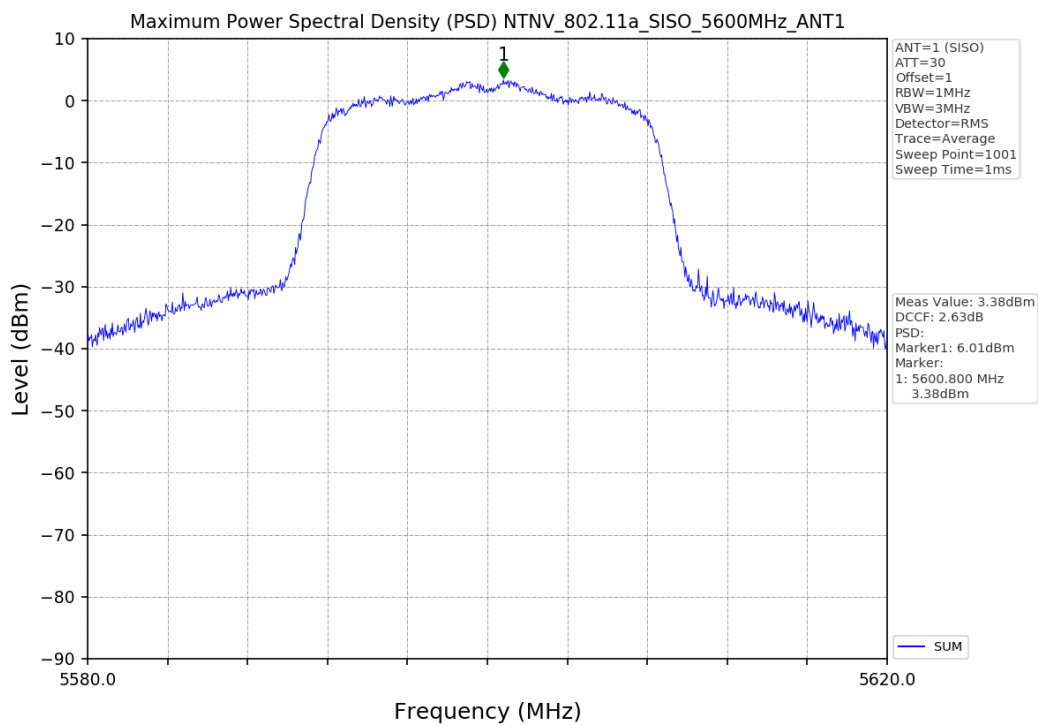
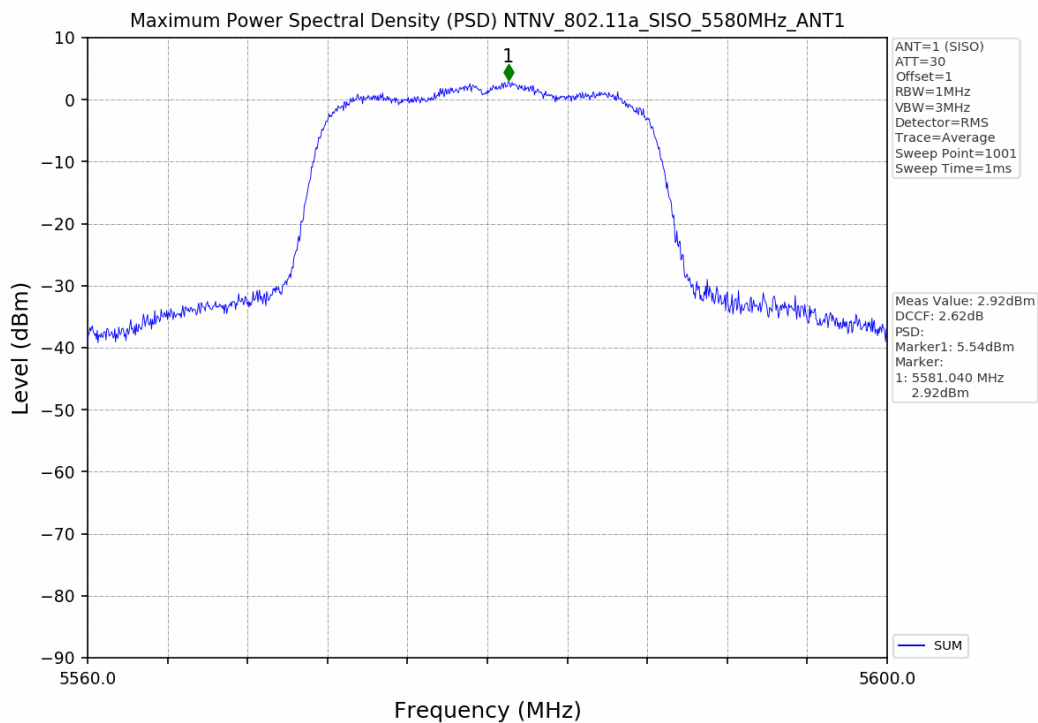
3. Maximum Power Spectral Density (PSD)

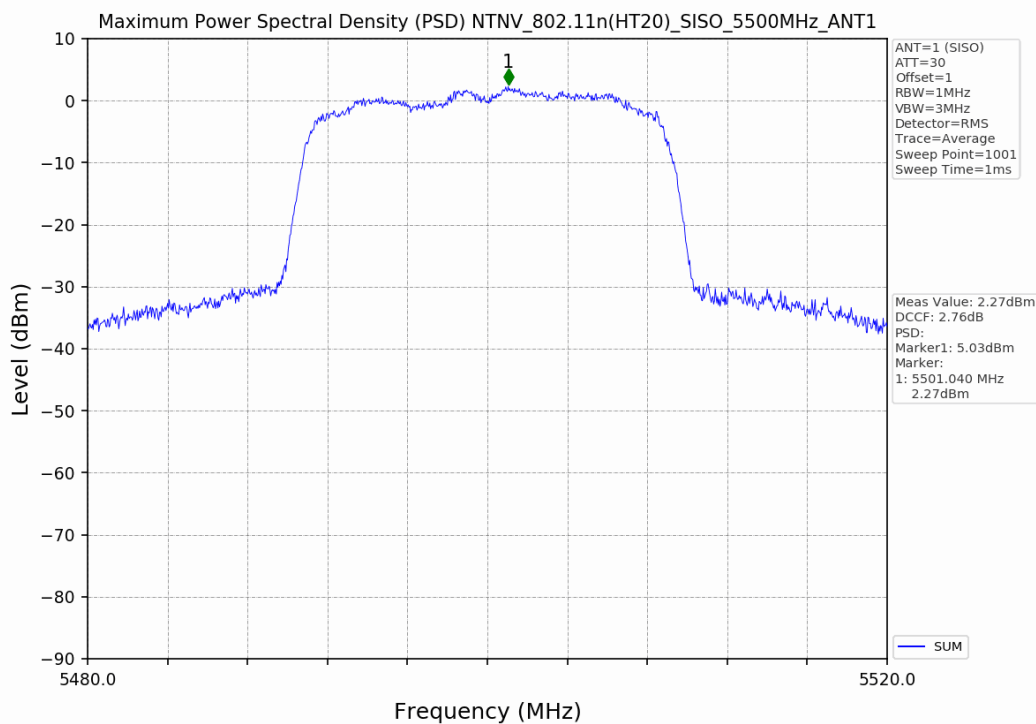
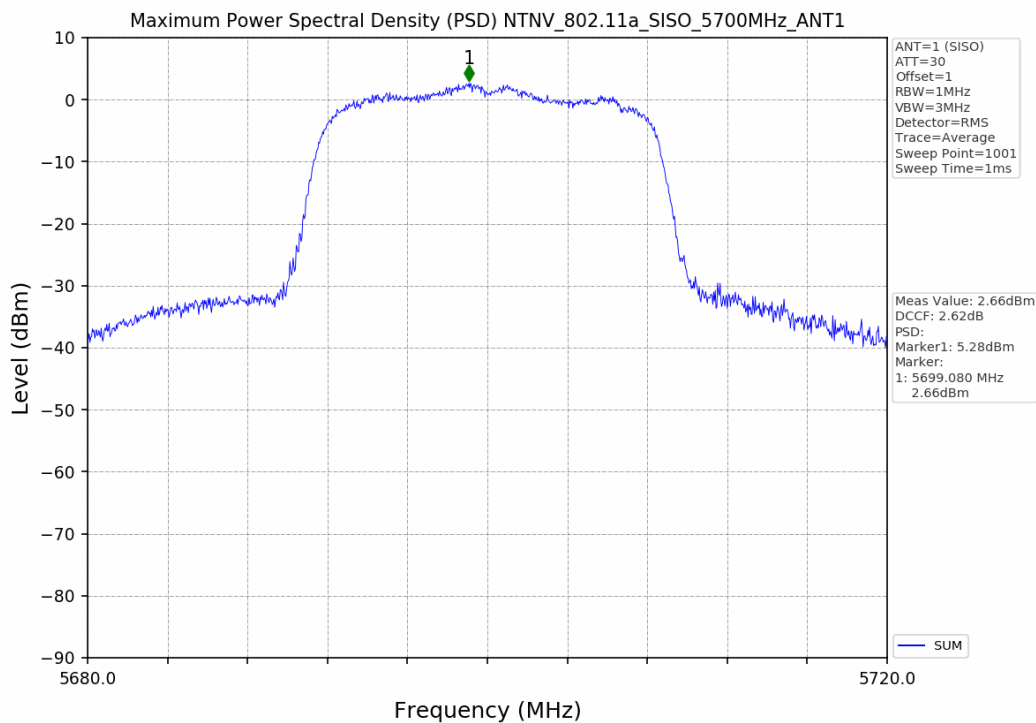
3.1 Test Result

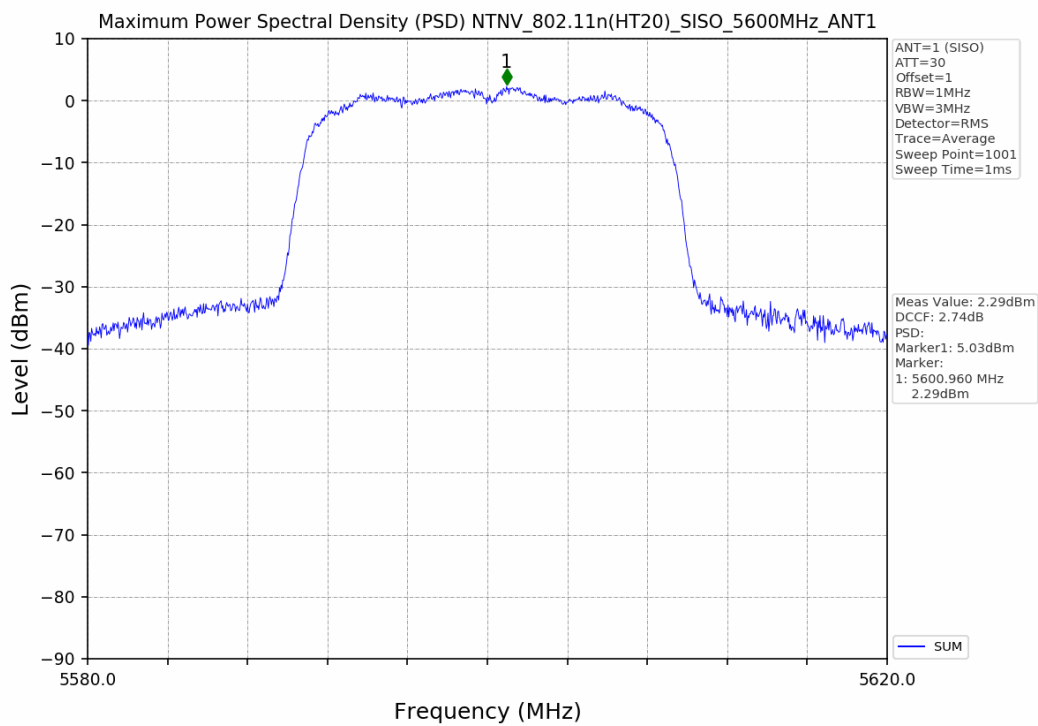
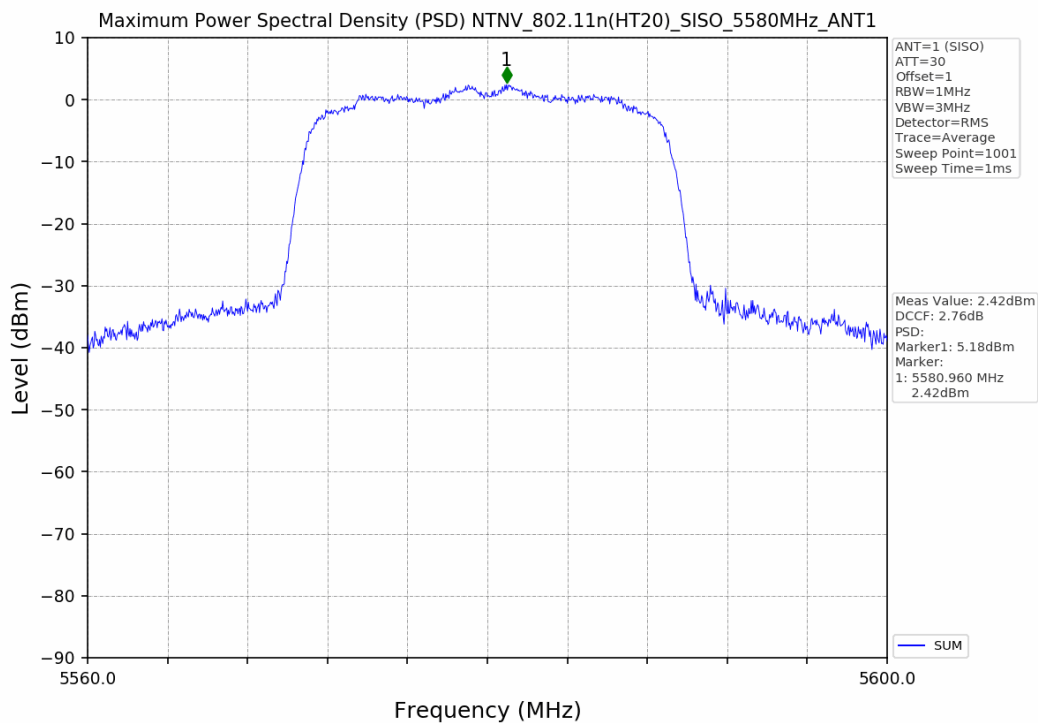
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5500	SISO	4.48	≤11	PASS
	5580	SISO	5.54	≤11	PASS
	5600	SISO	6.01	≤11	PASS
	5700	SISO	5.28	≤11	PASS
802.11n(HT20)	5500	SISO	5.03	≤11	PASS
	5580	SISO	5.18	≤11	PASS
	5600	SISO	5.03	≤11	PASS
	5700	SISO	4.87	≤11	PASS
802.11n(HT40)	5510	SISO	-1.79	≤11	PASS
	5550	SISO	-1.62	≤11	PASS
	5590	SISO	-1.81	≤11	PASS
	5670	SISO	-1.68	≤11	PASS

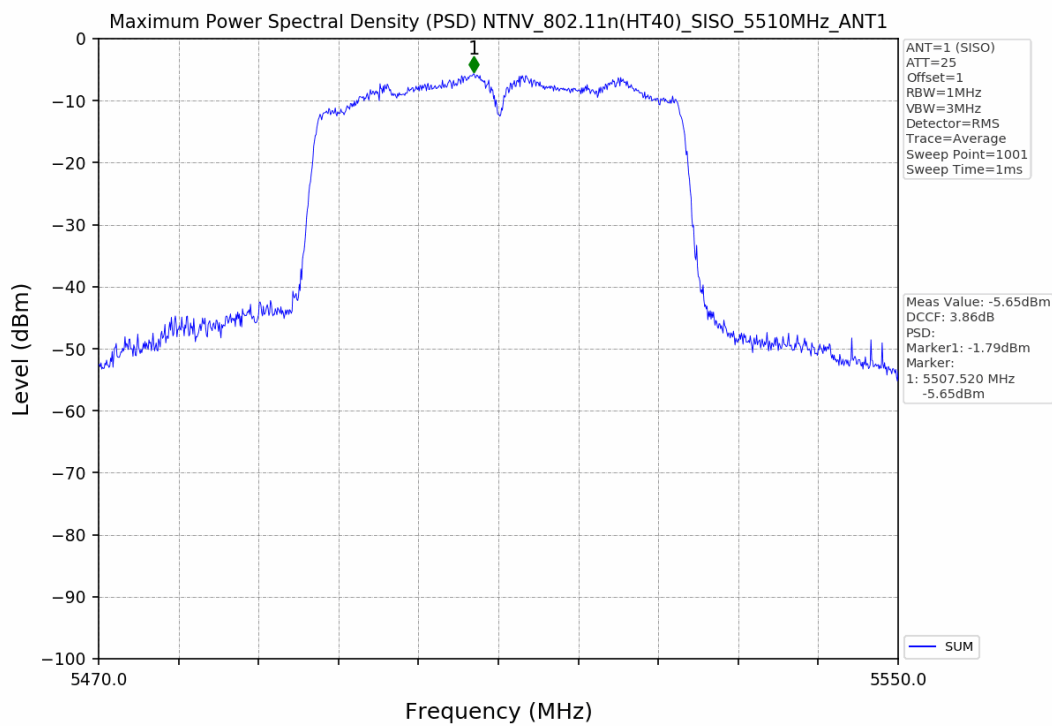
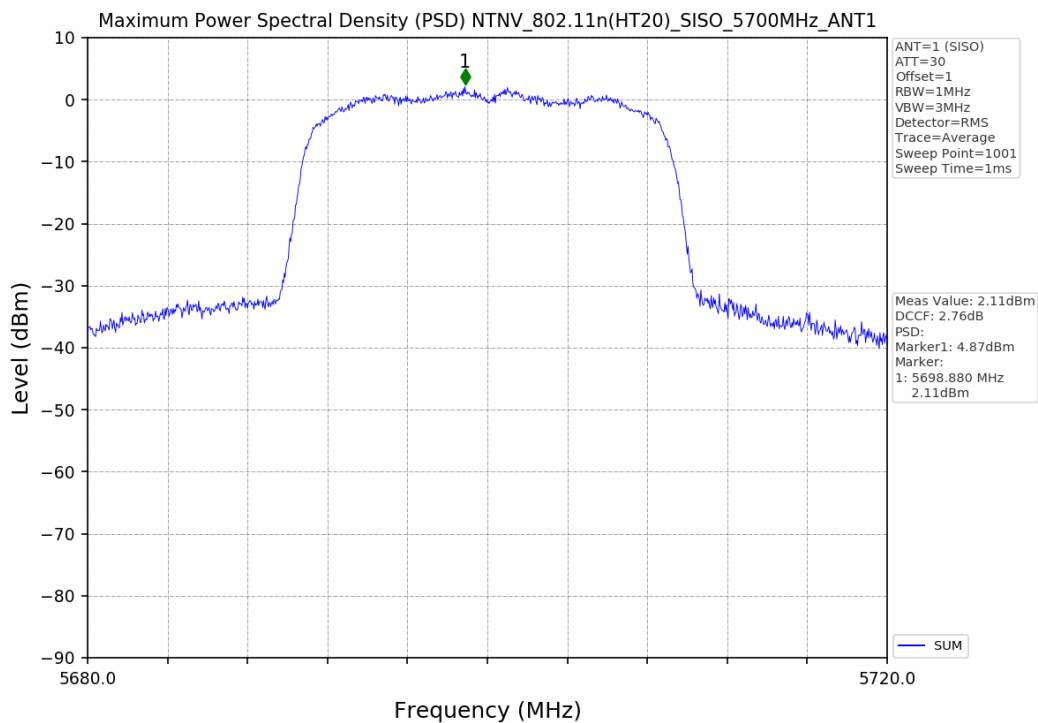
3.2 Test Graph

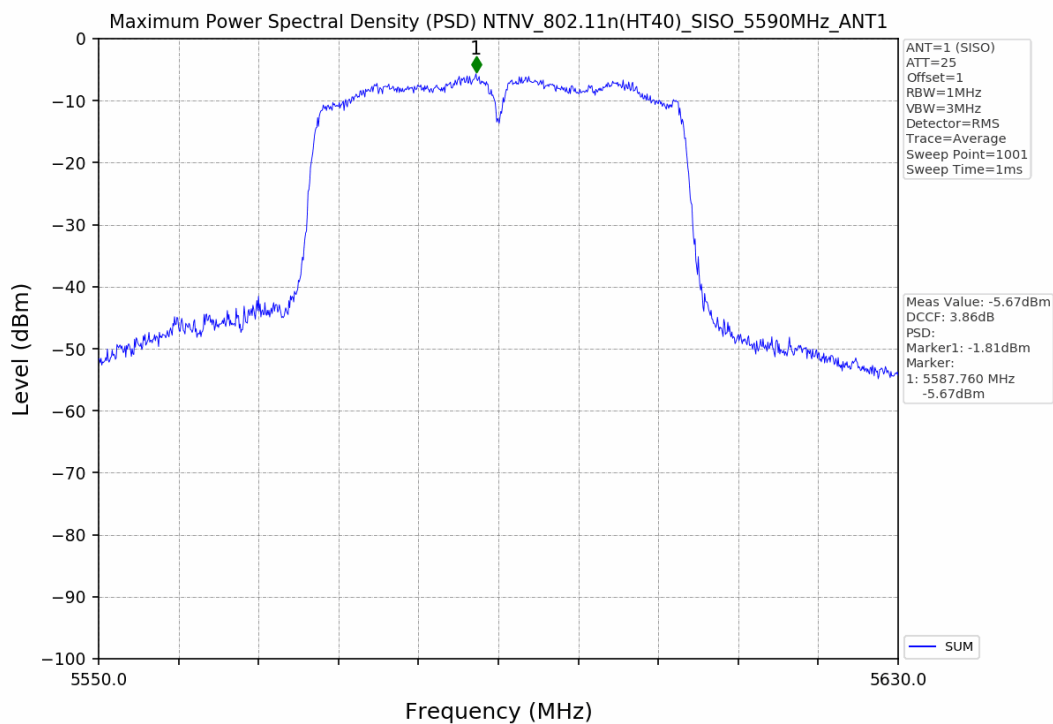
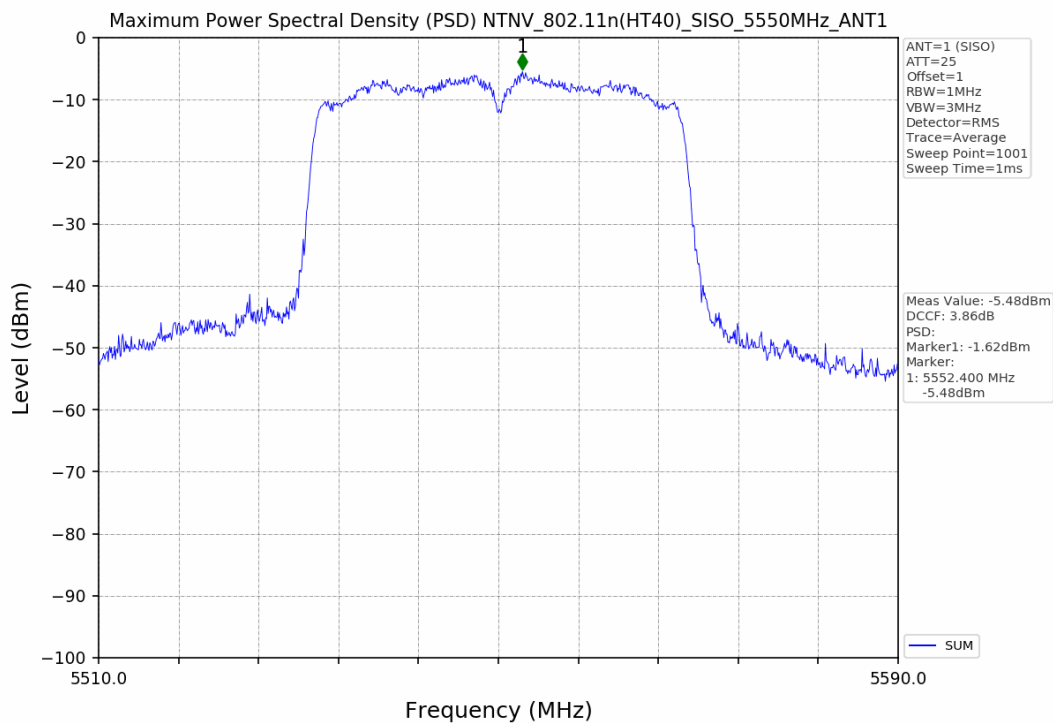


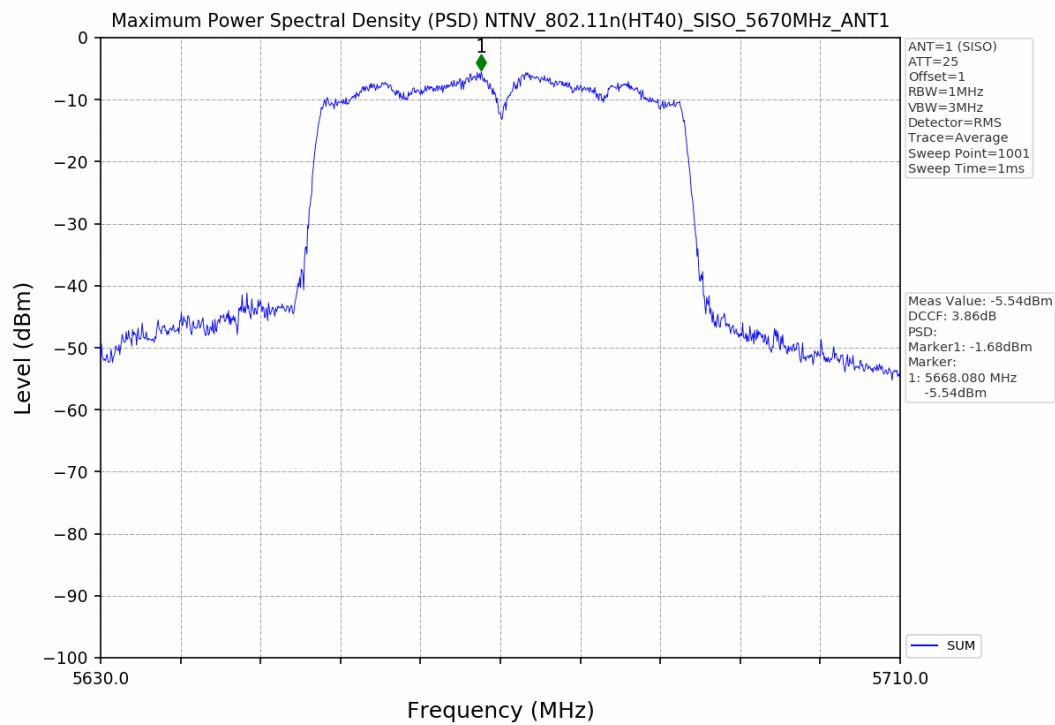












4. Frequency Stability

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		