

## Appendix for 15.407

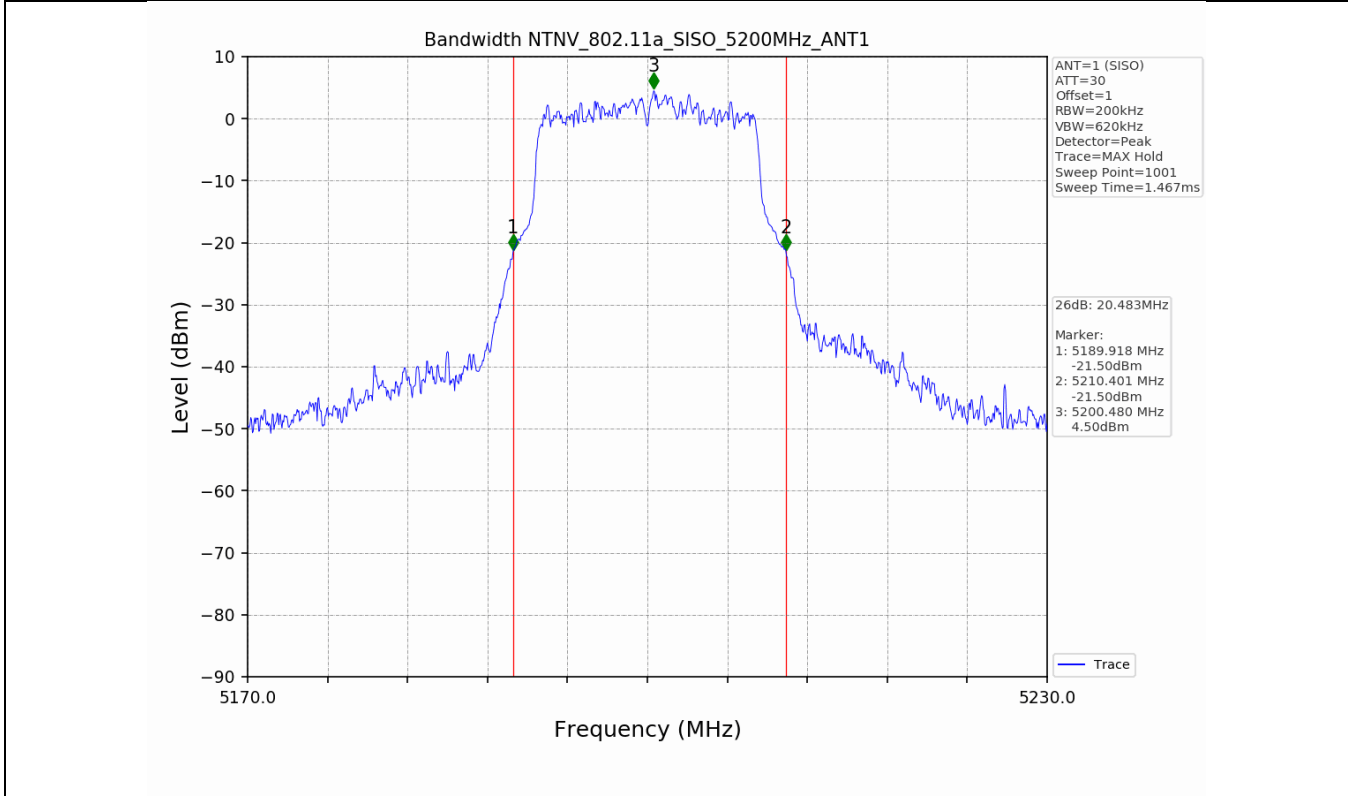
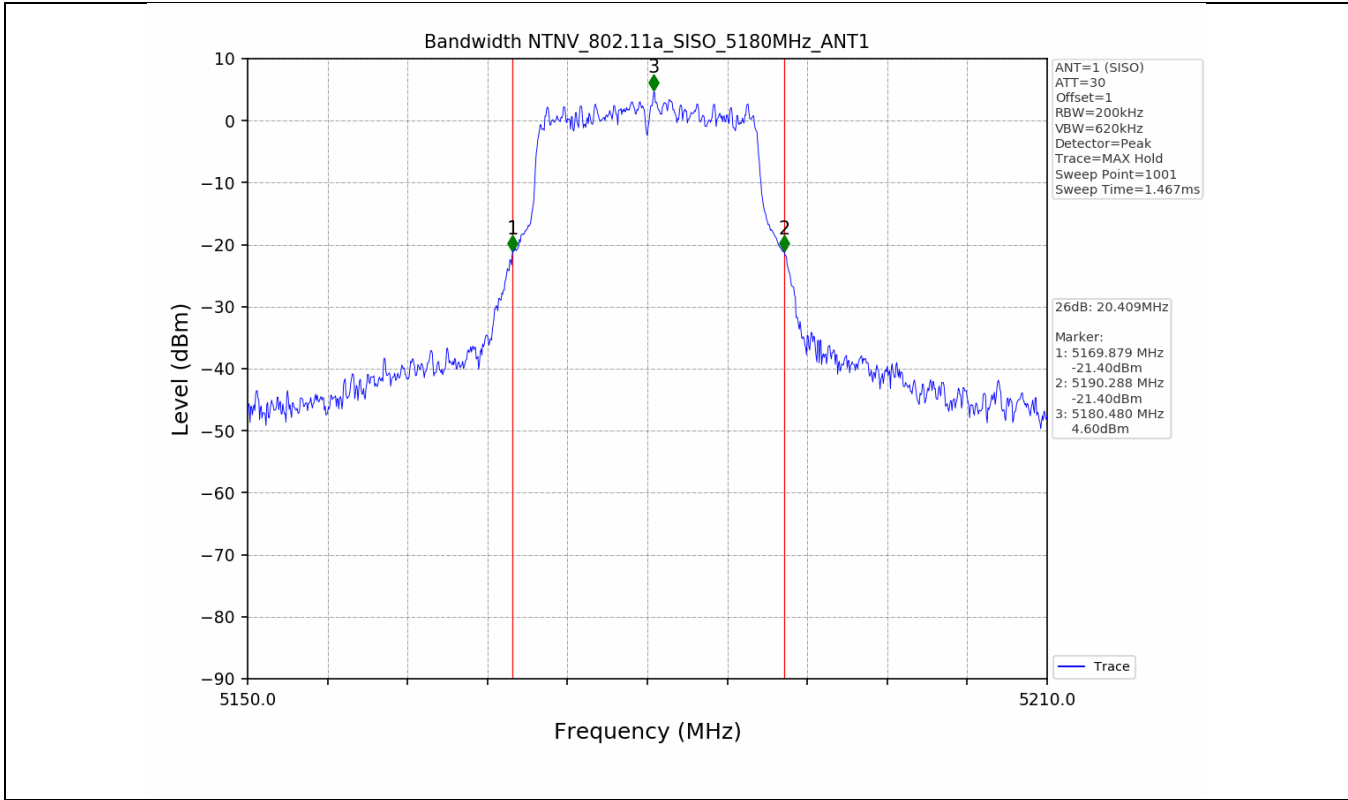
### 1. Bandwidth

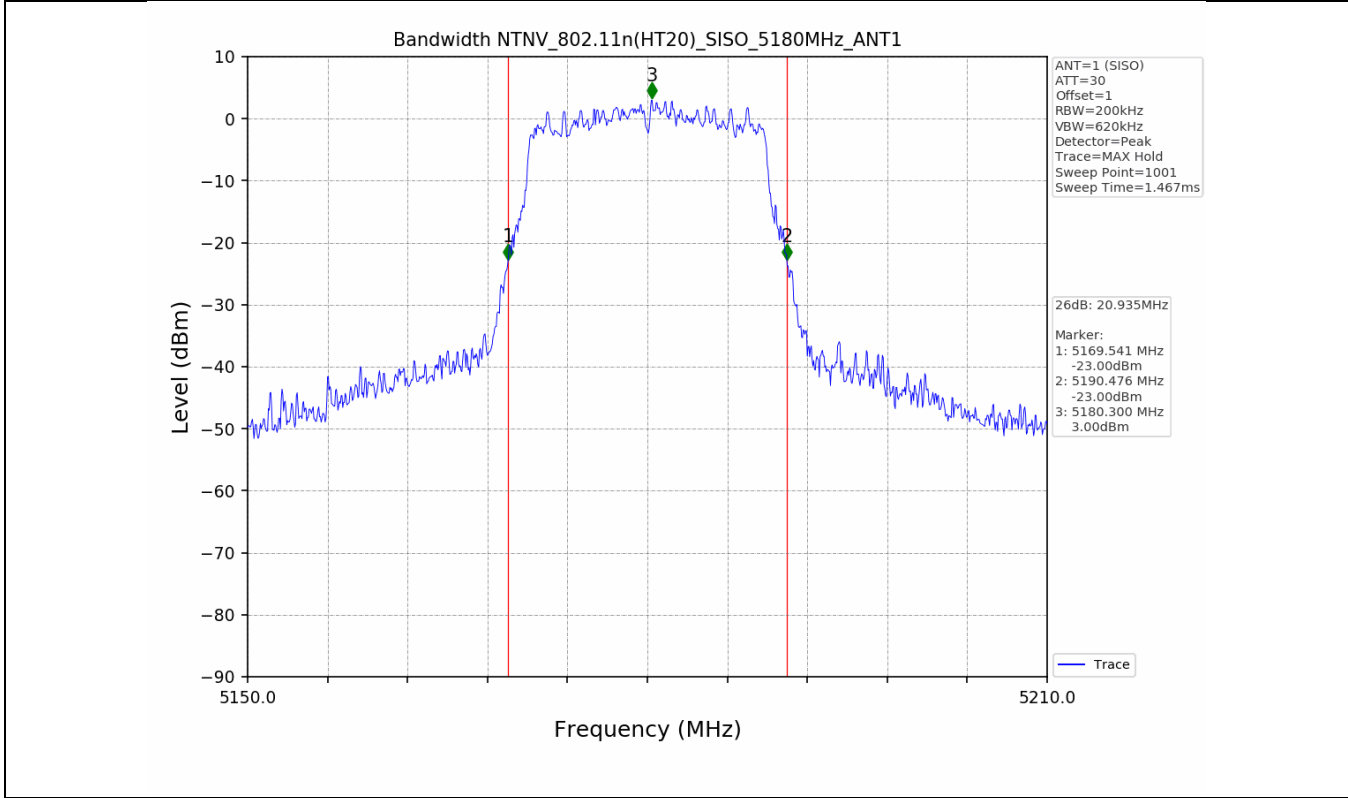
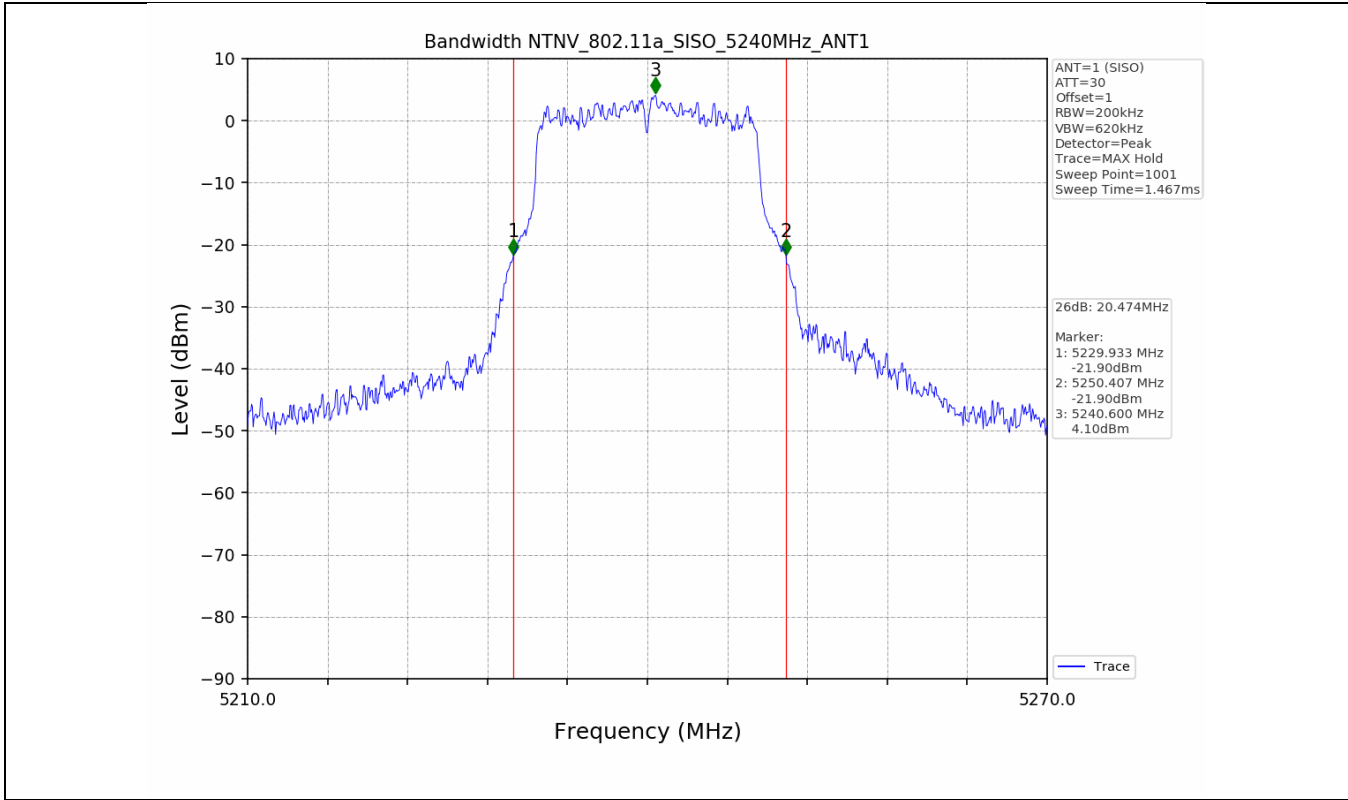
#### 1.1 Test Result

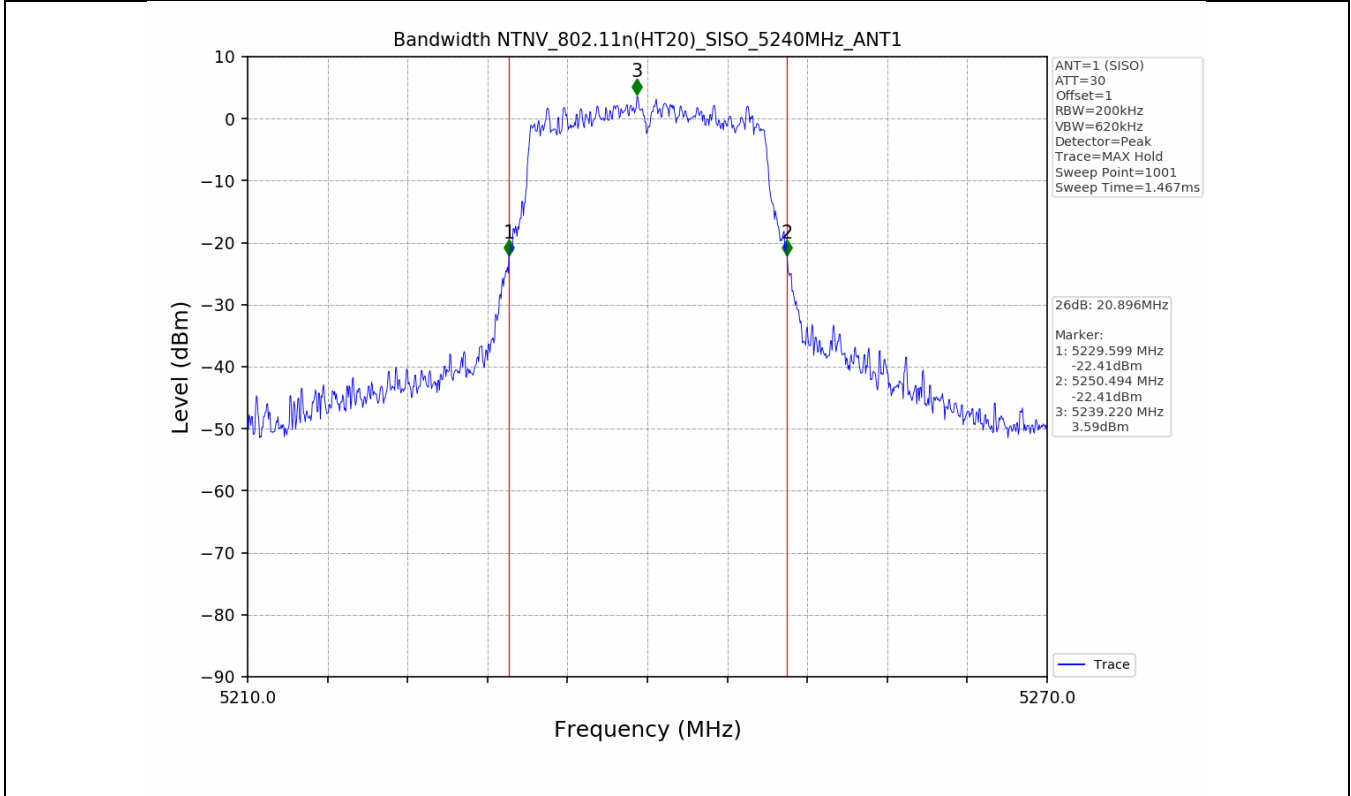
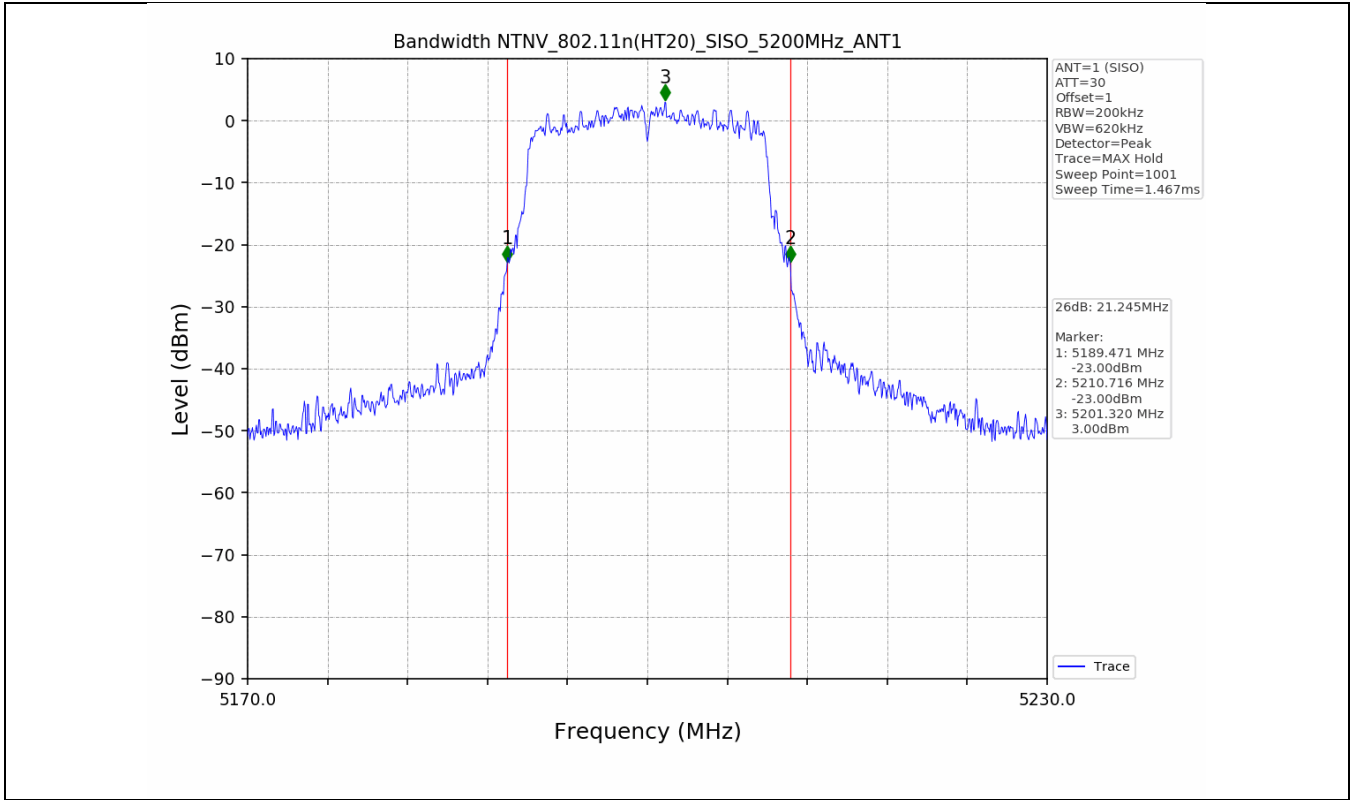
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	20.409	Only for Report Use	PASS
	5200	SISO	1	20.483	Only for Report Use	PASS
	5240	SISO	1	20.474	Only for Report Use	PASS
802.11n(HT20)	5180	SISO	1	20.935	Only for Report Use	PASS
	5200	SISO	1	21.245	Only for Report Use	PASS
	5240	SISO	1	20.896	Only for Report Use	PASS
802.11n(HT40)	5190	SISO	1	39.443	Only for Report Use	PASS
	5230	SISO	1	39.247	Only for Report Use	PASS
802.11ac(VHT20)	5180	SISO	1	20.962	Only for Report Use	PASS
	5200	SISO	1	20.855	Only for Report Use	PASS
	5240	SISO	1	20.947	Only for Report Use	PASS
802.11ac(VHT40)	5190	SISO	1	39.413	Only for Report Use	PASS
	5230	SISO	1	39.440	Only for Report Use	PASS
802.11ac(VHT80)	5210	SISO	1	80.593	Only for Report Use	PASS

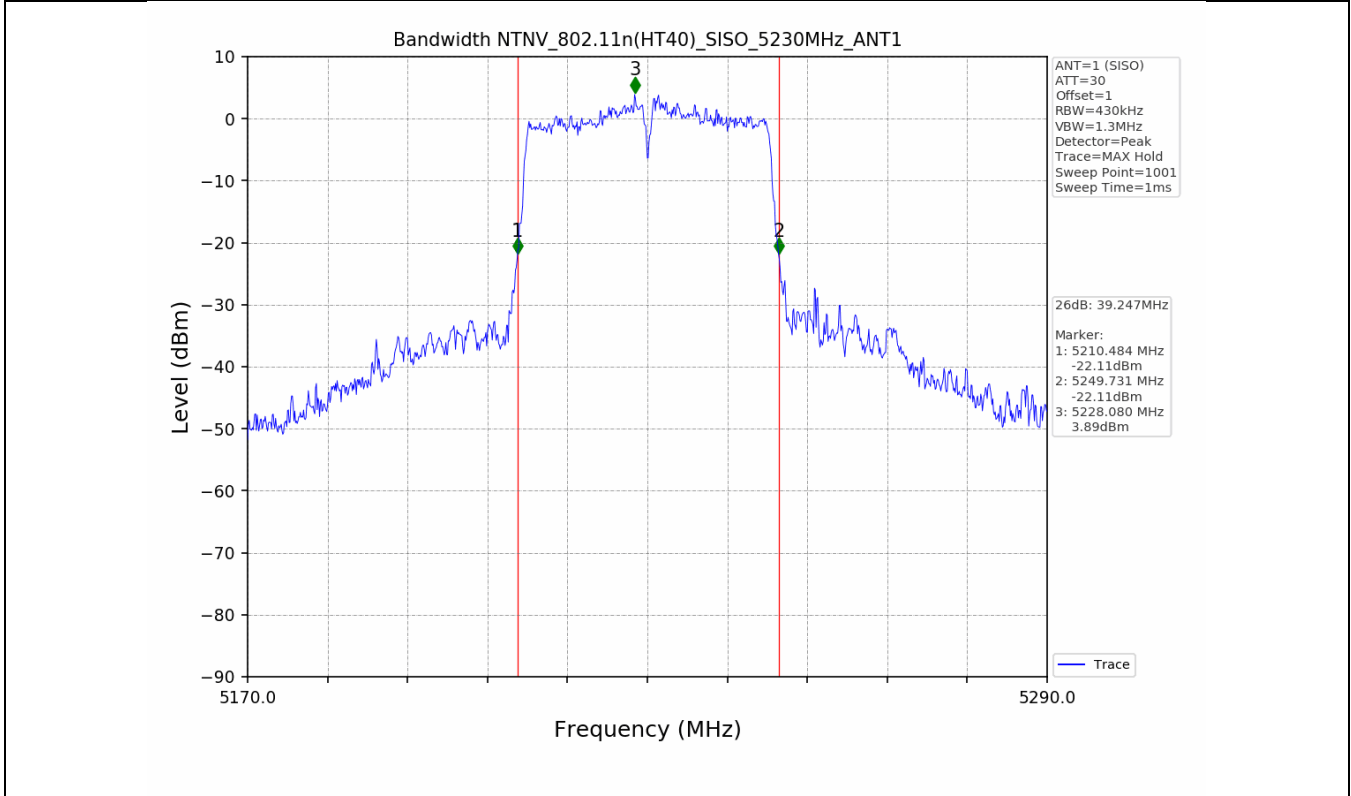
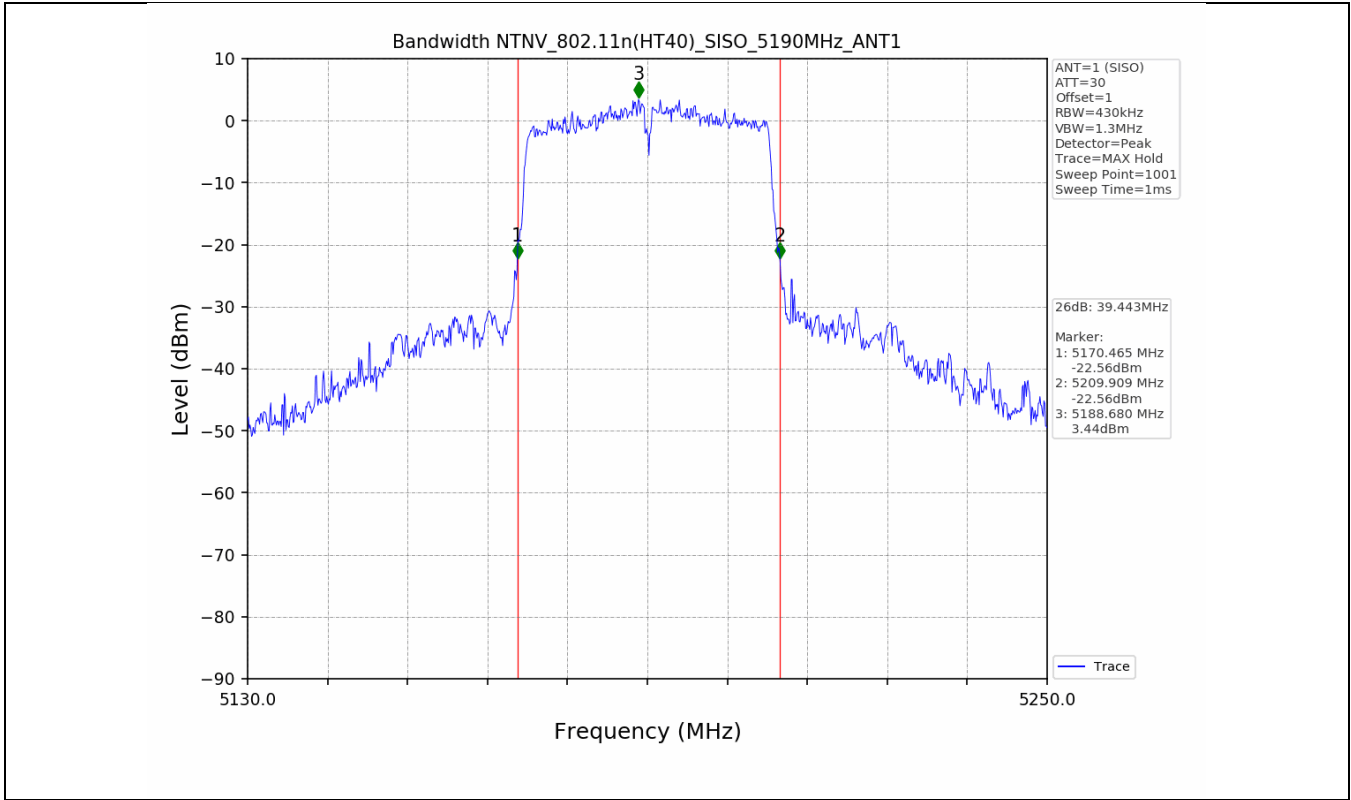
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	16.609	Only for Report Use
	5200	SISO	1	16.586	Only for Report Use
	5240	SISO	1	16.593	Only for Report Use
802.11n(HT20)	5180	SISO	1	17.853	Only for Report Use
	5200	SISO	1	17.801	Only for Report Use
	5240	SISO	1	17.843	Only for Report Use
802.11n(HT40)	5190	SISO	1	36.502	Only for Report Use
	5230	SISO	1	36.488	Only for Report Use
802.11ac(VHT20)	5180	SISO	1	17.831	Only for Report Use
	5200	SISO	1	17.824	Only for Report Use
	5240	SISO	1	17.880	Only for Report Use
802.11ac(VHT40)	5190	SISO	1	36.464	Only for Report Use
	5230	SISO	1	36.481	Only for Report Use
802.11ac(VHT80)	5210	SISO	1	75.496	Only for Report Use

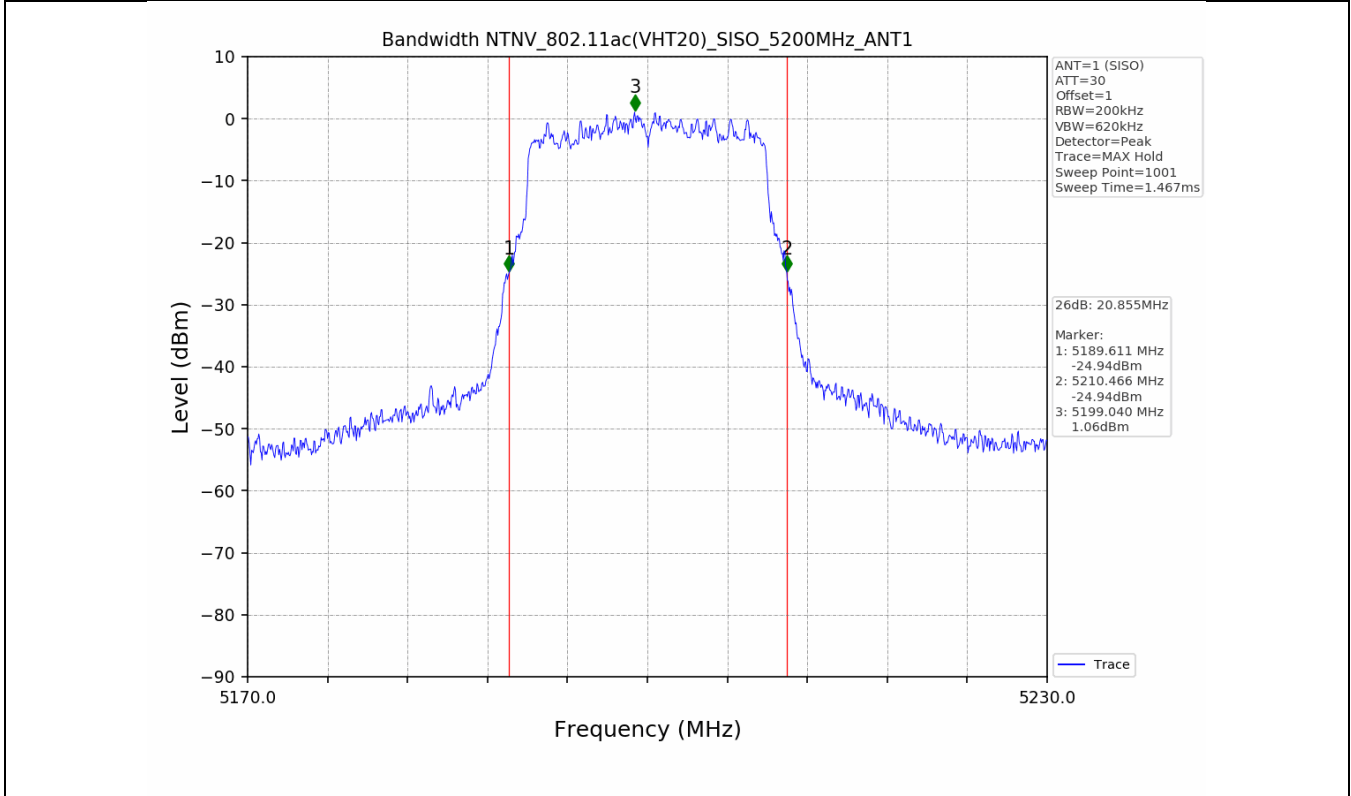
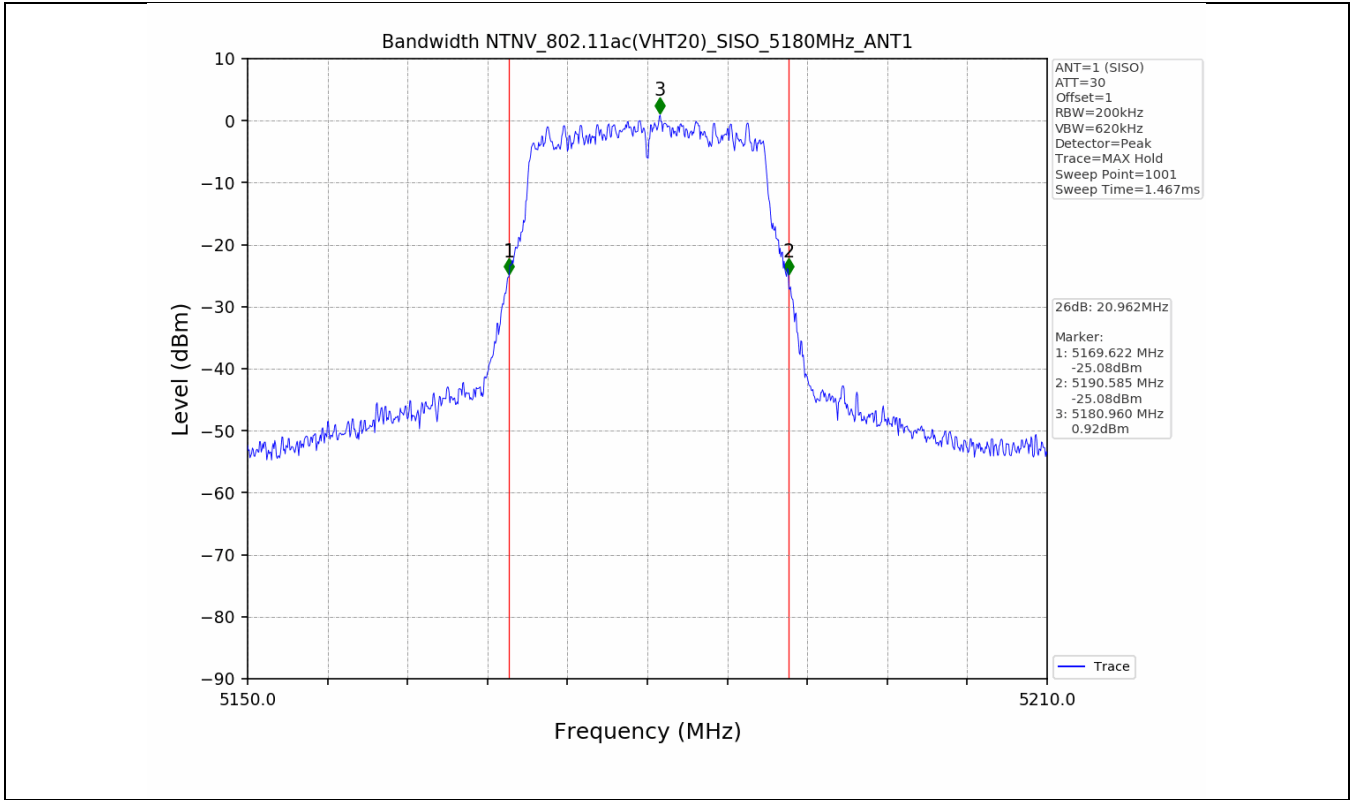
#### 1.2 Test Graph - Emission Bandwidth

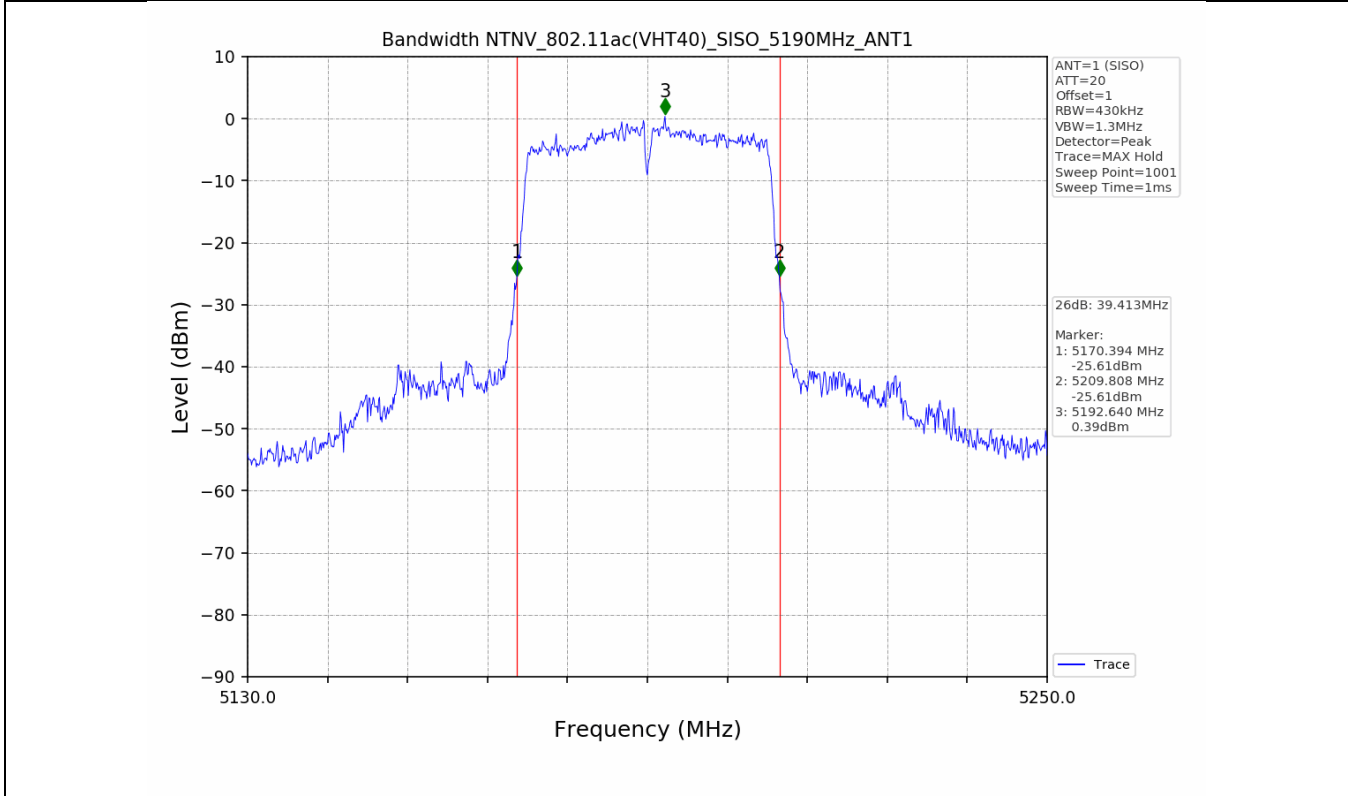
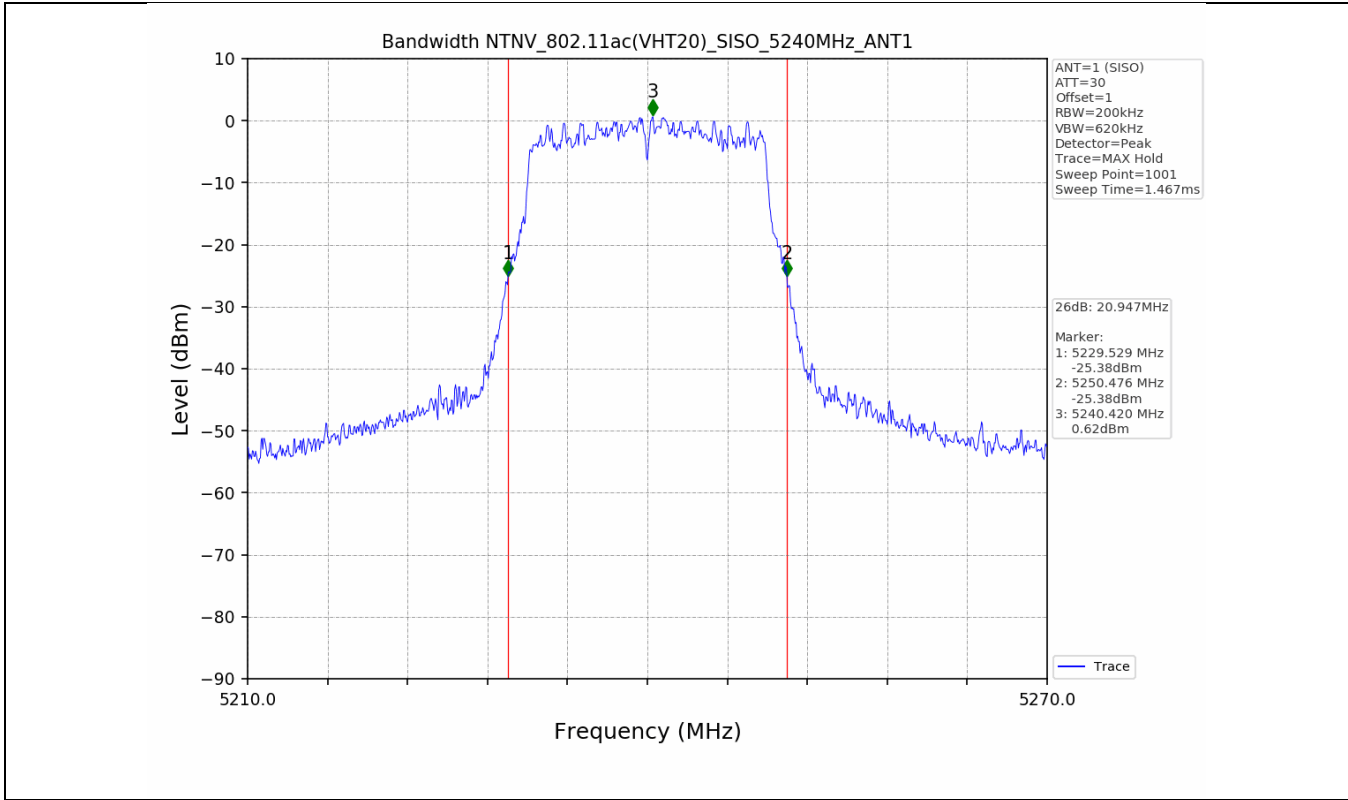


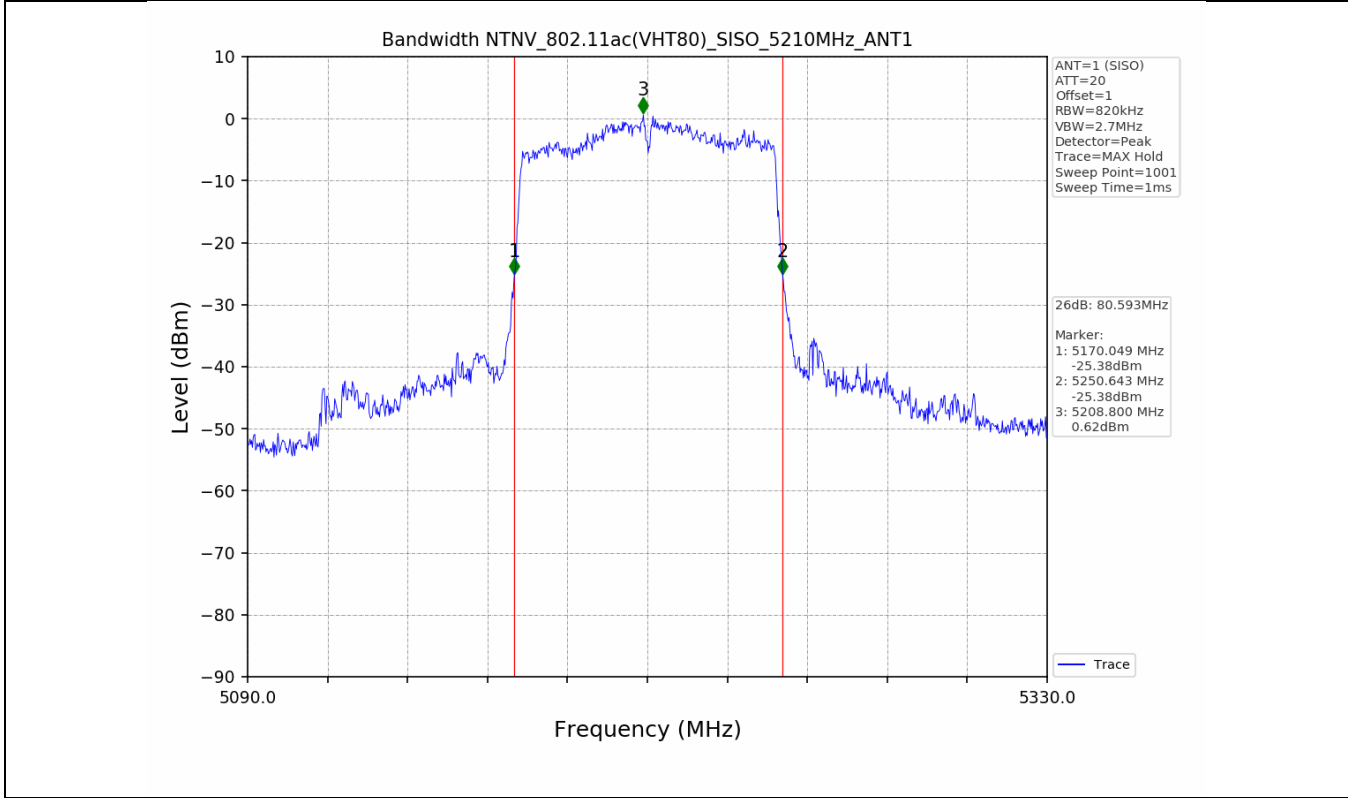
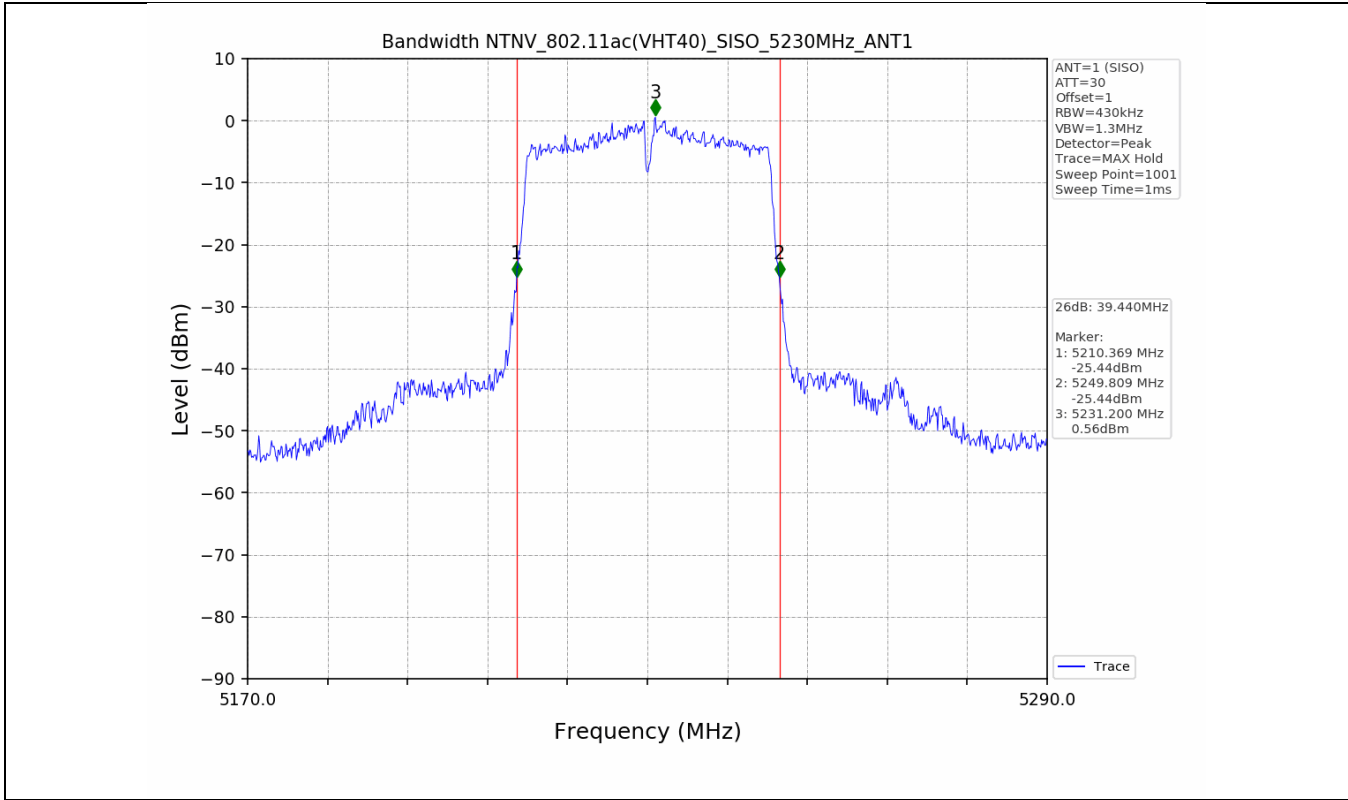






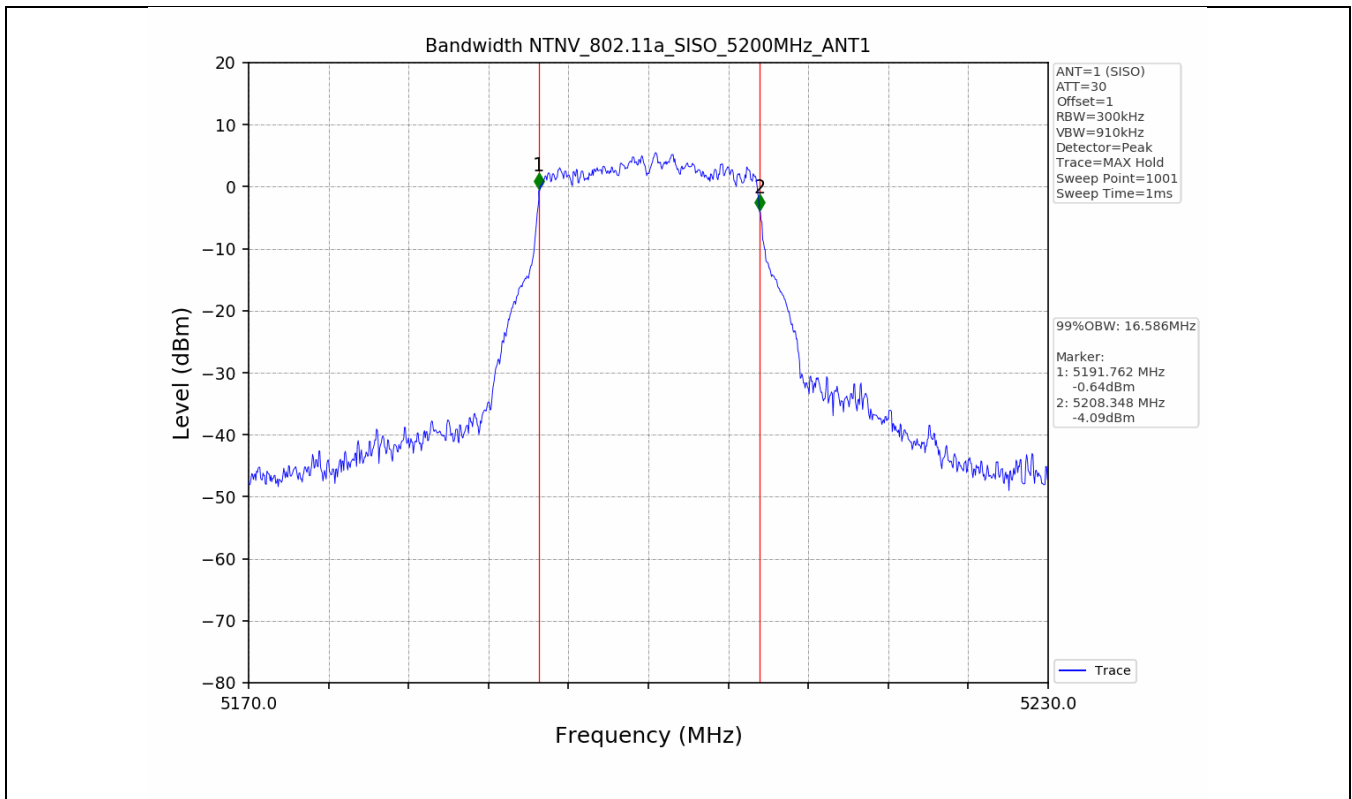
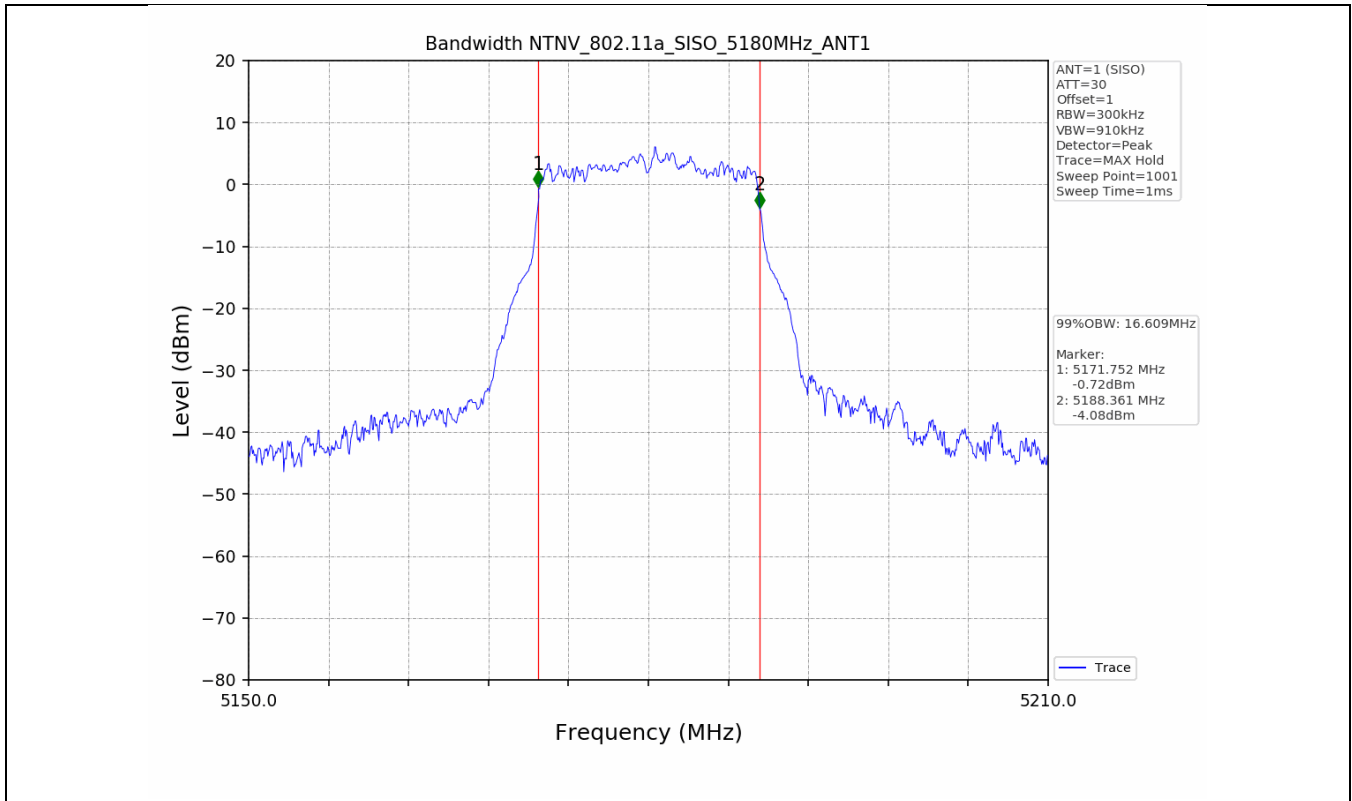




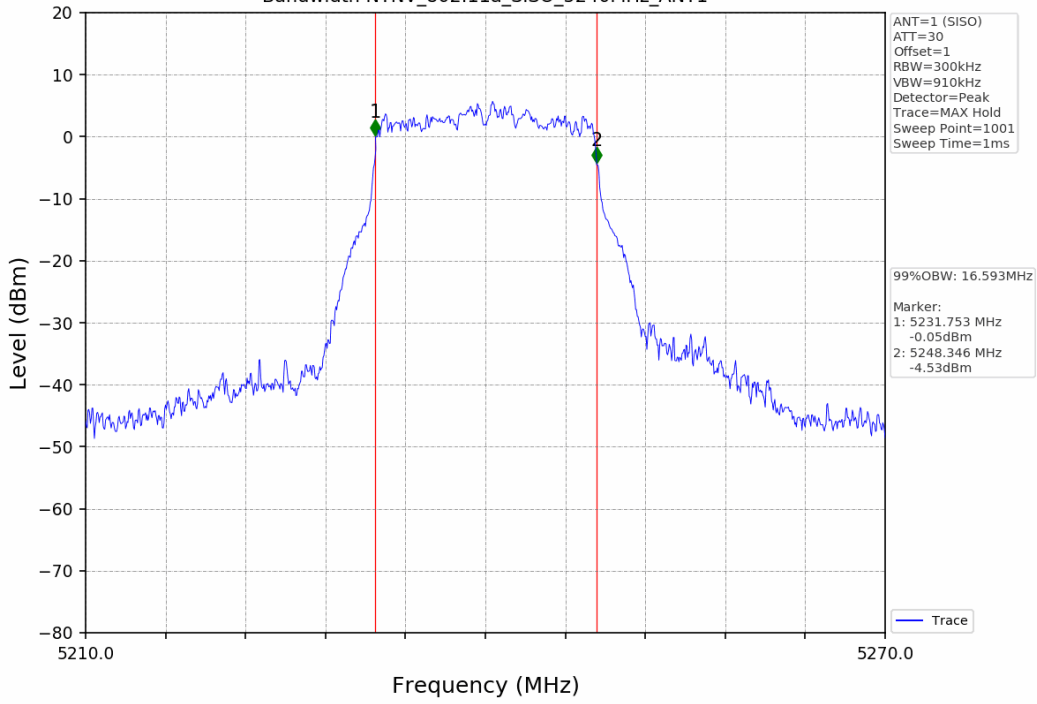


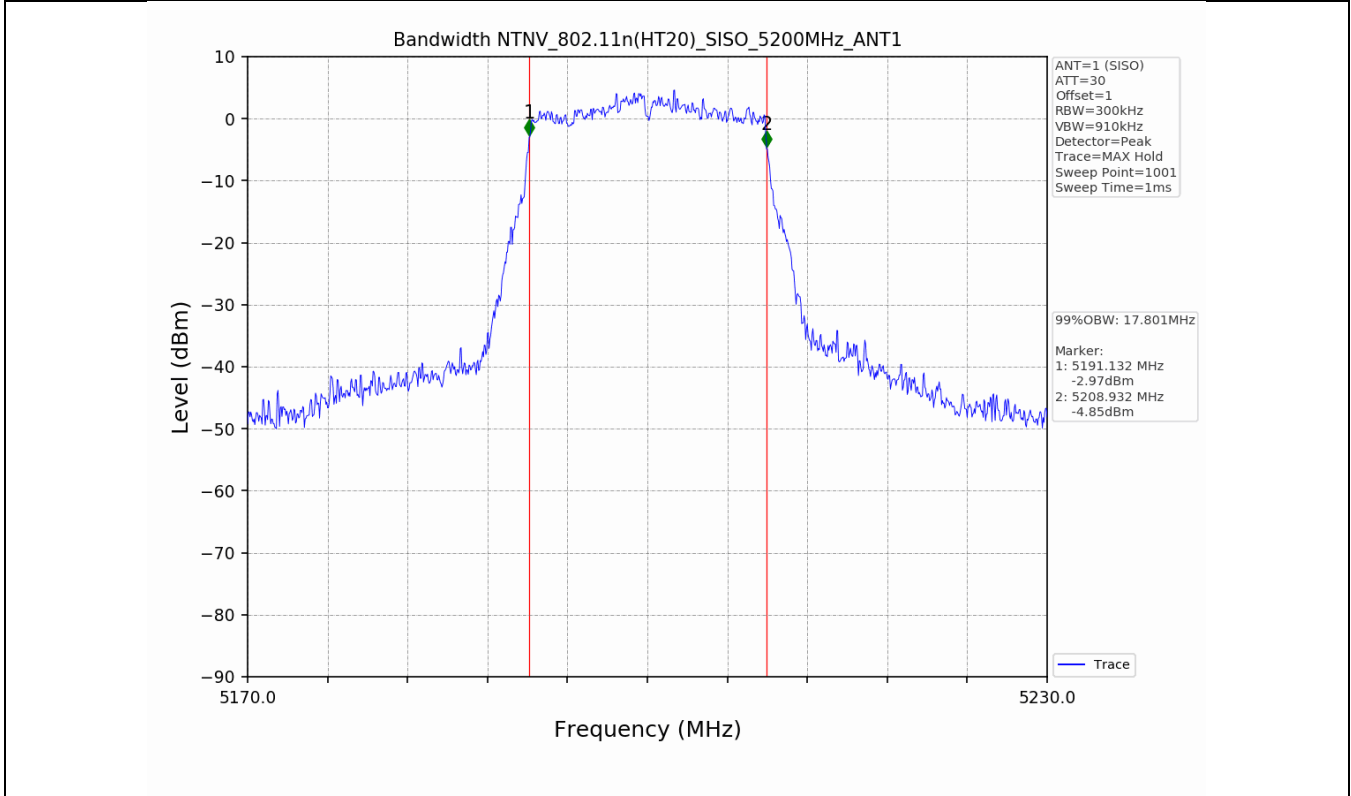
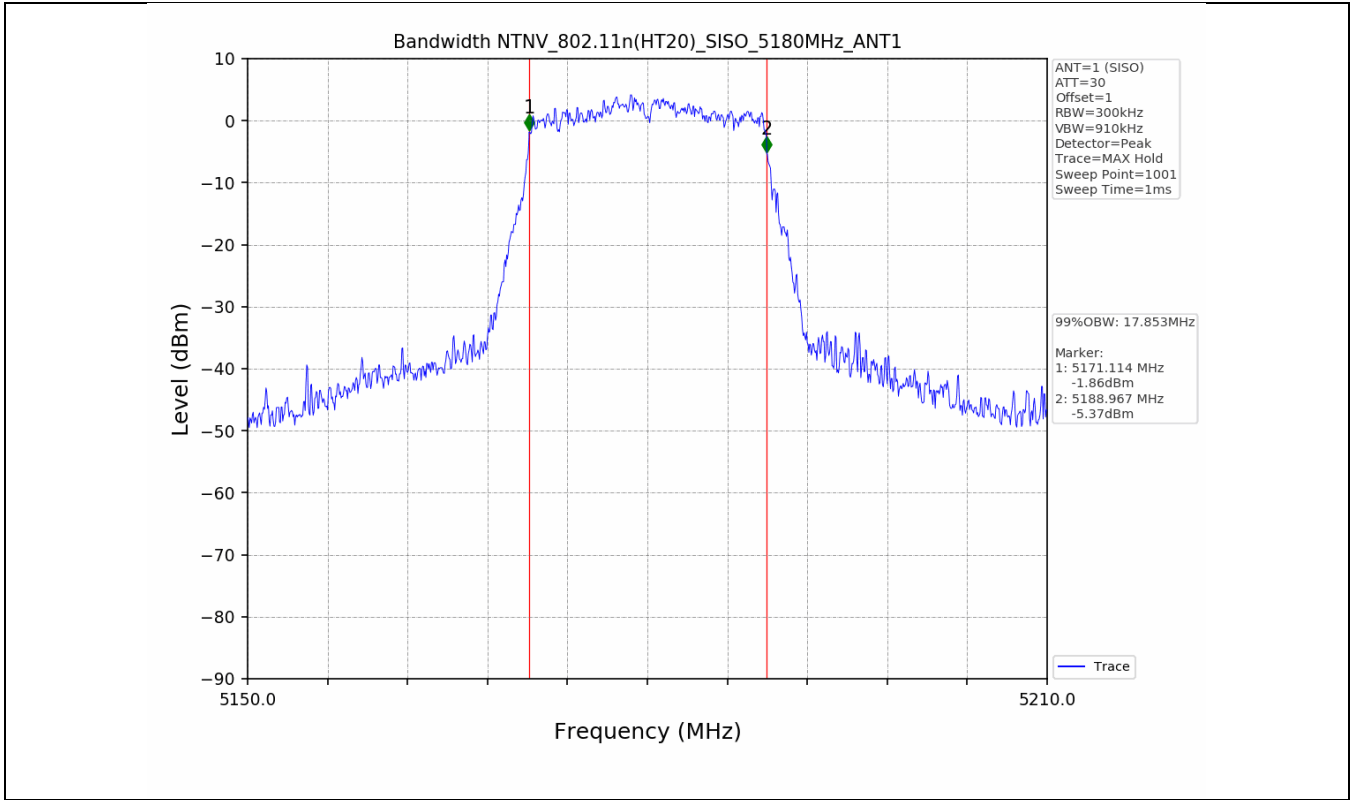


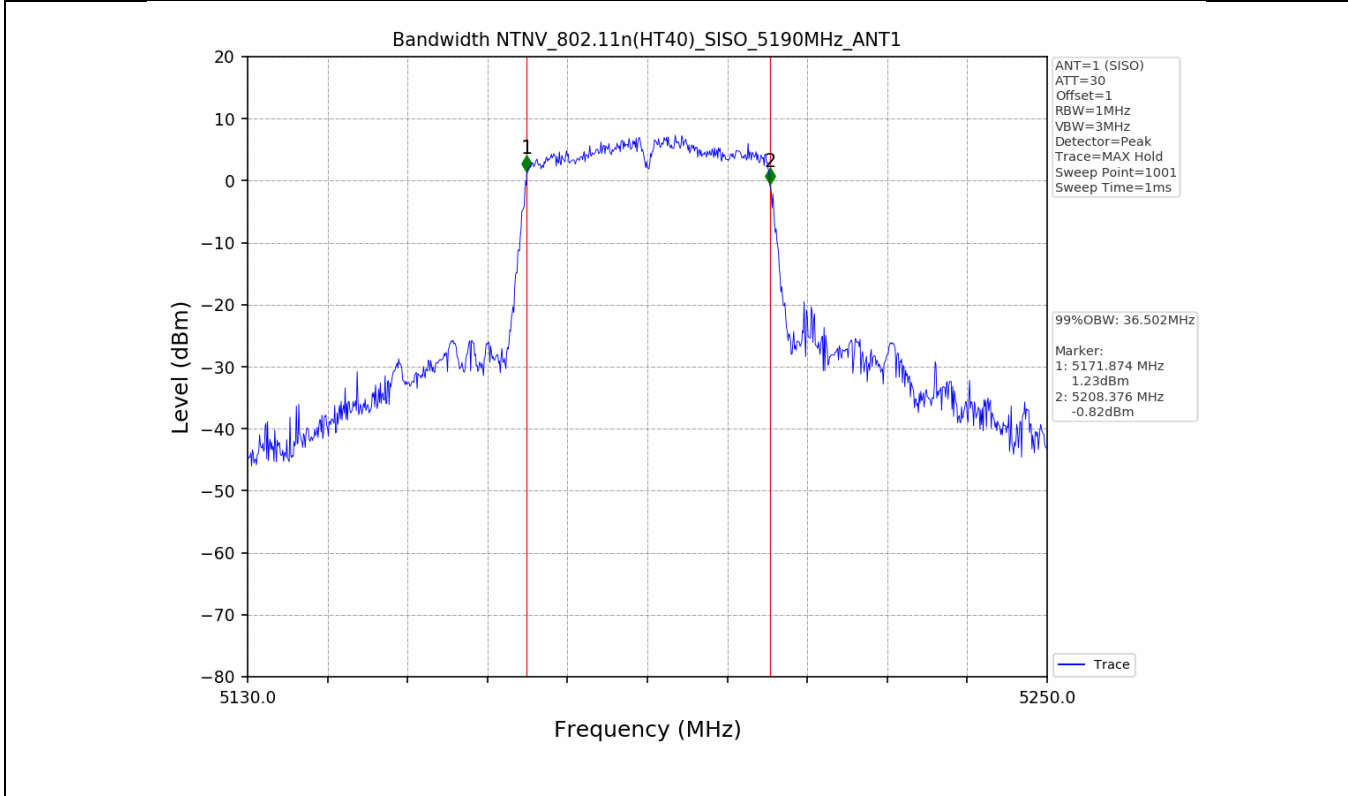
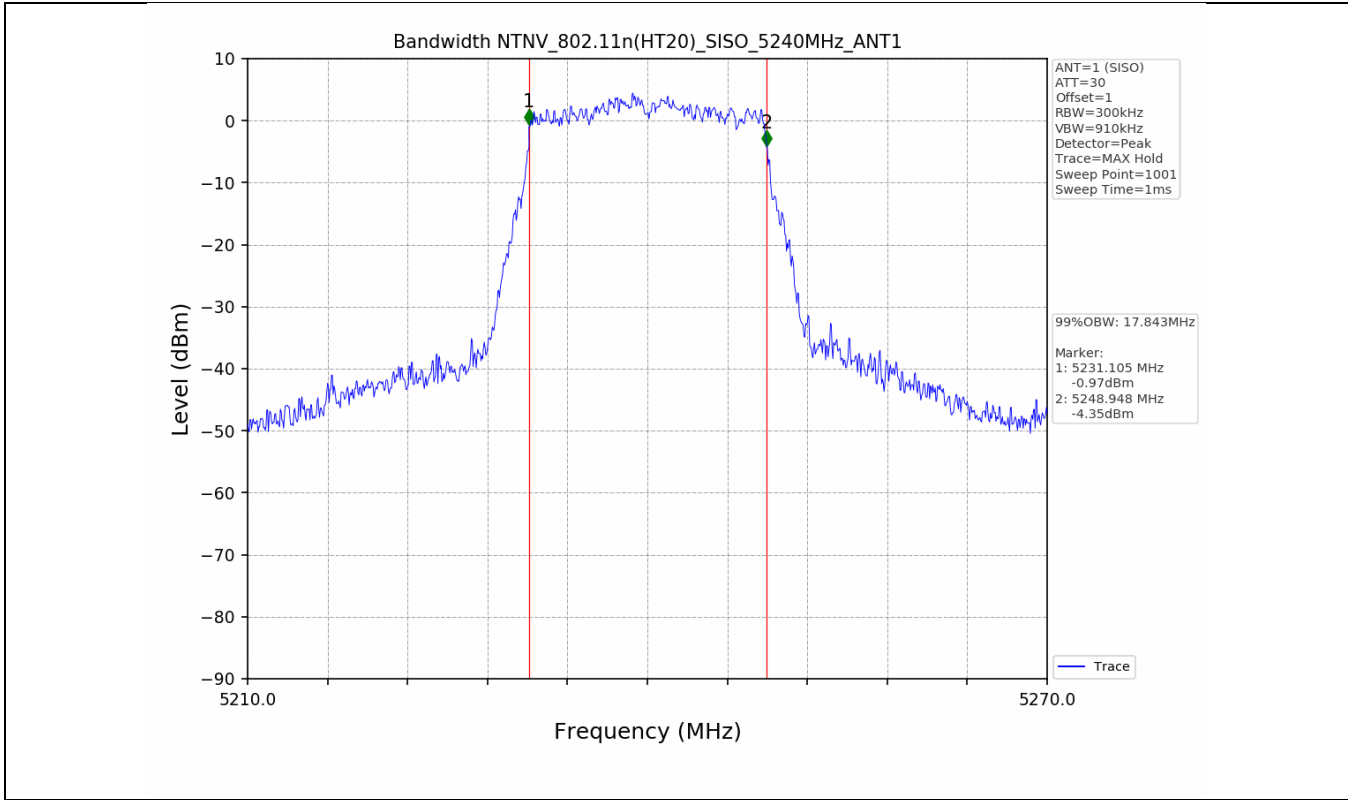
### 1.3 Test Graph - 99% Occupied Bandwidth

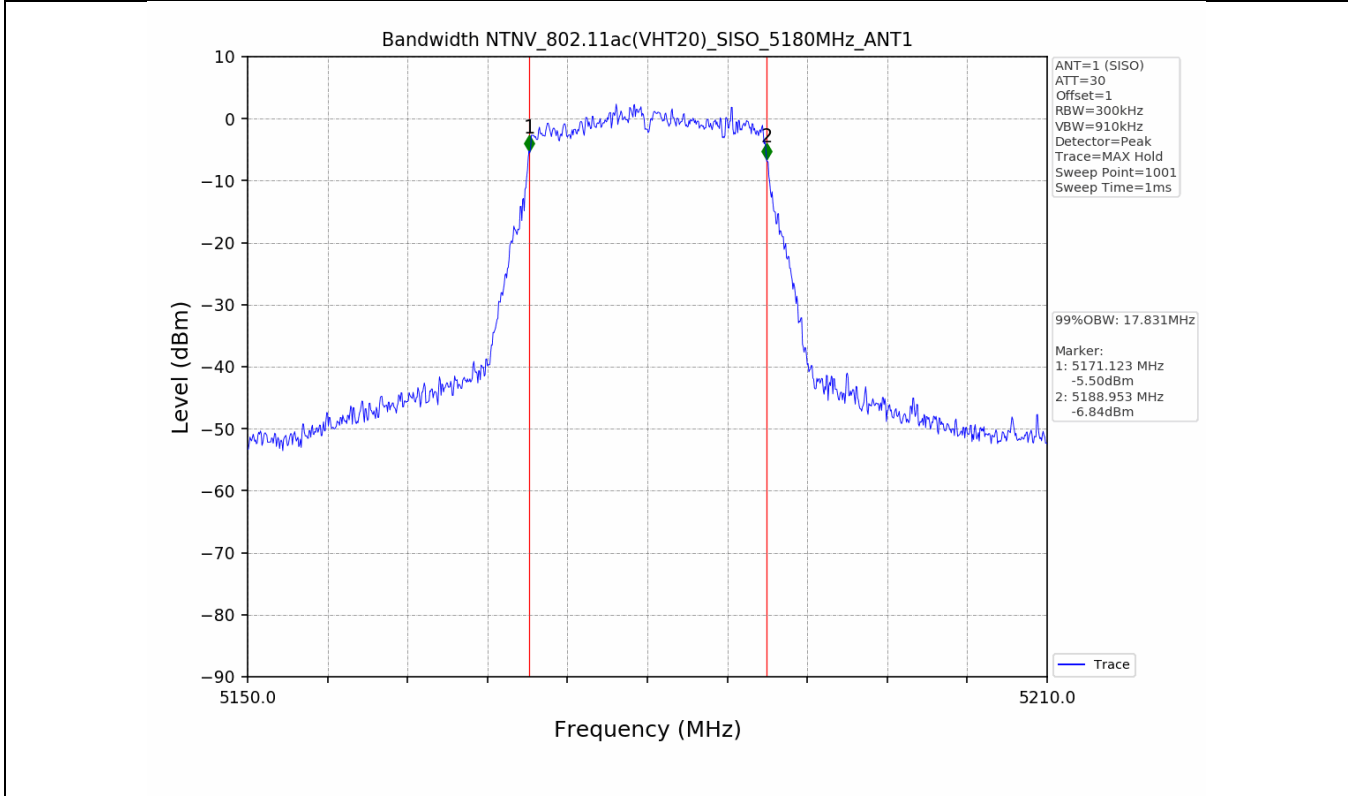
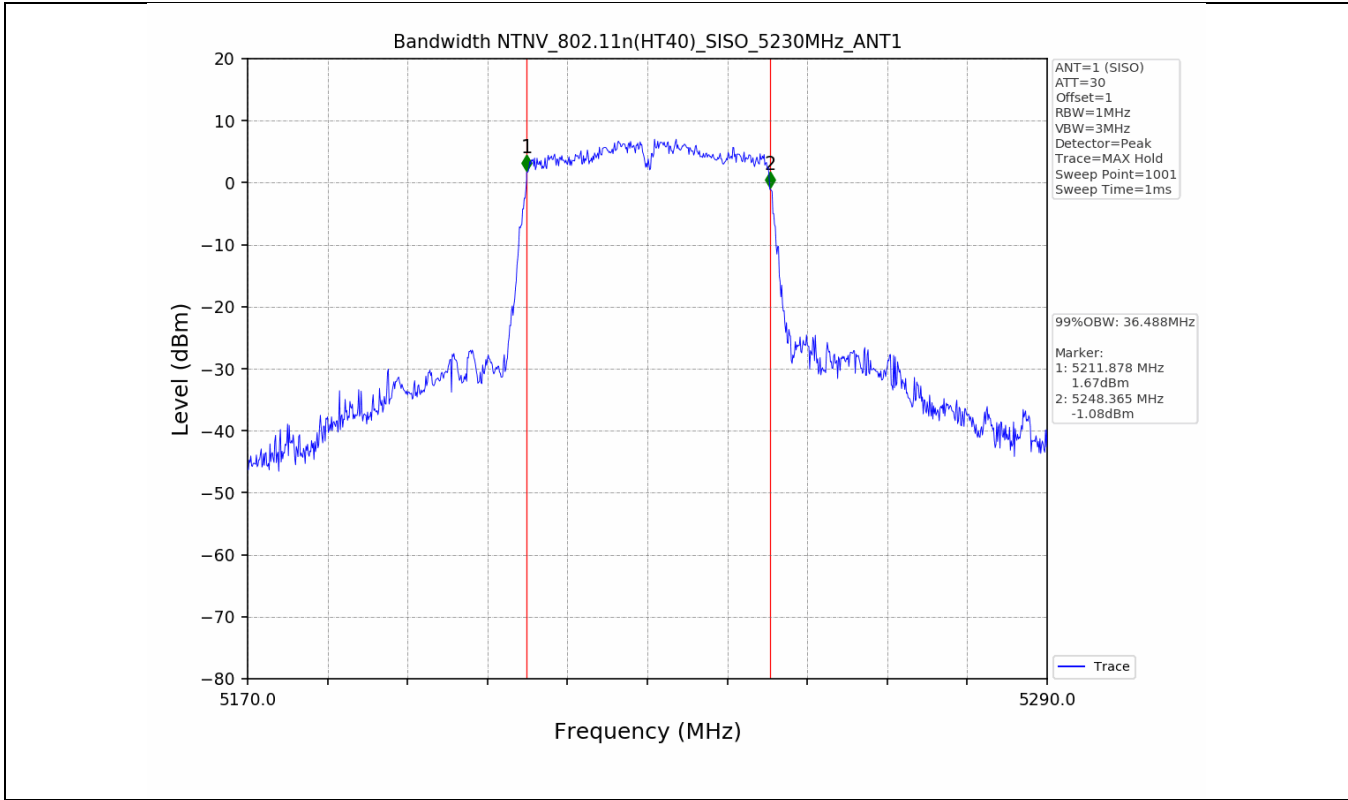


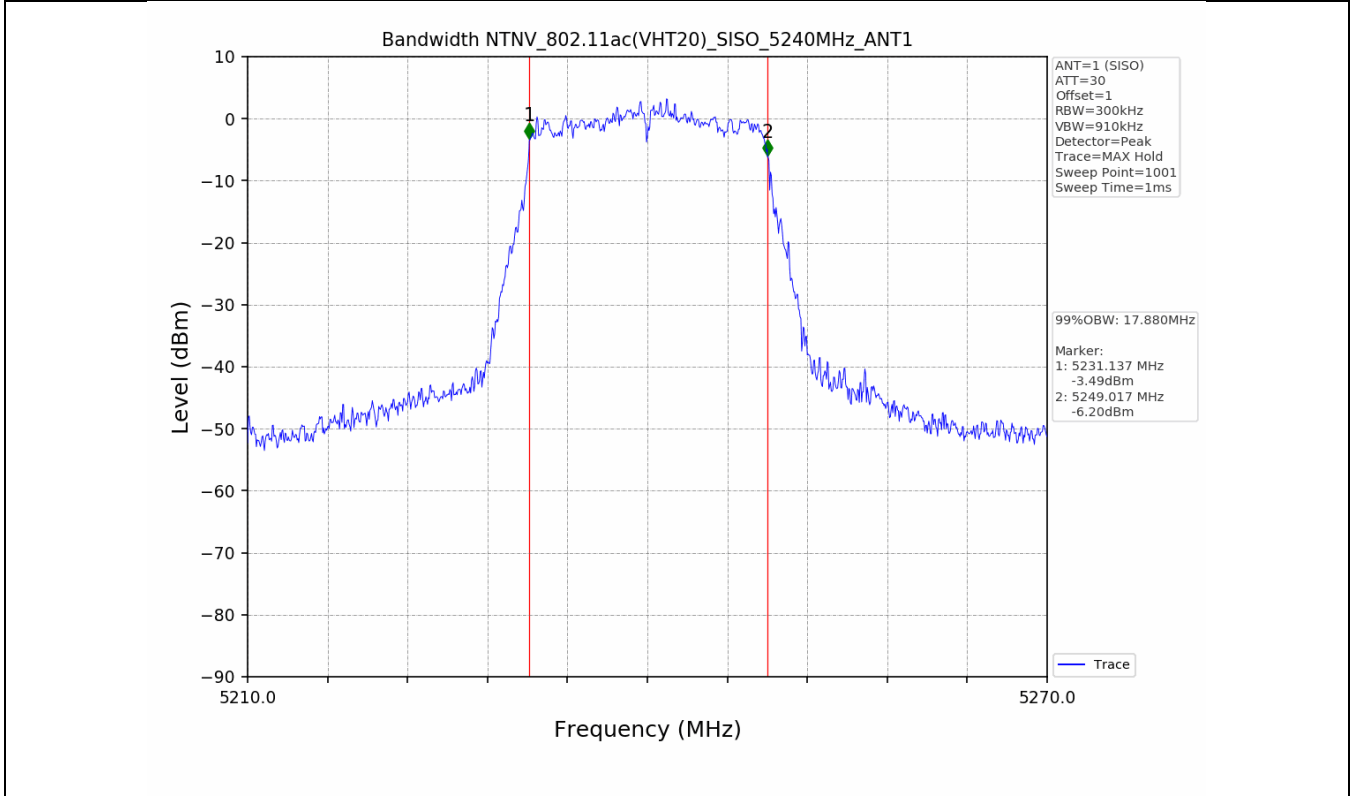
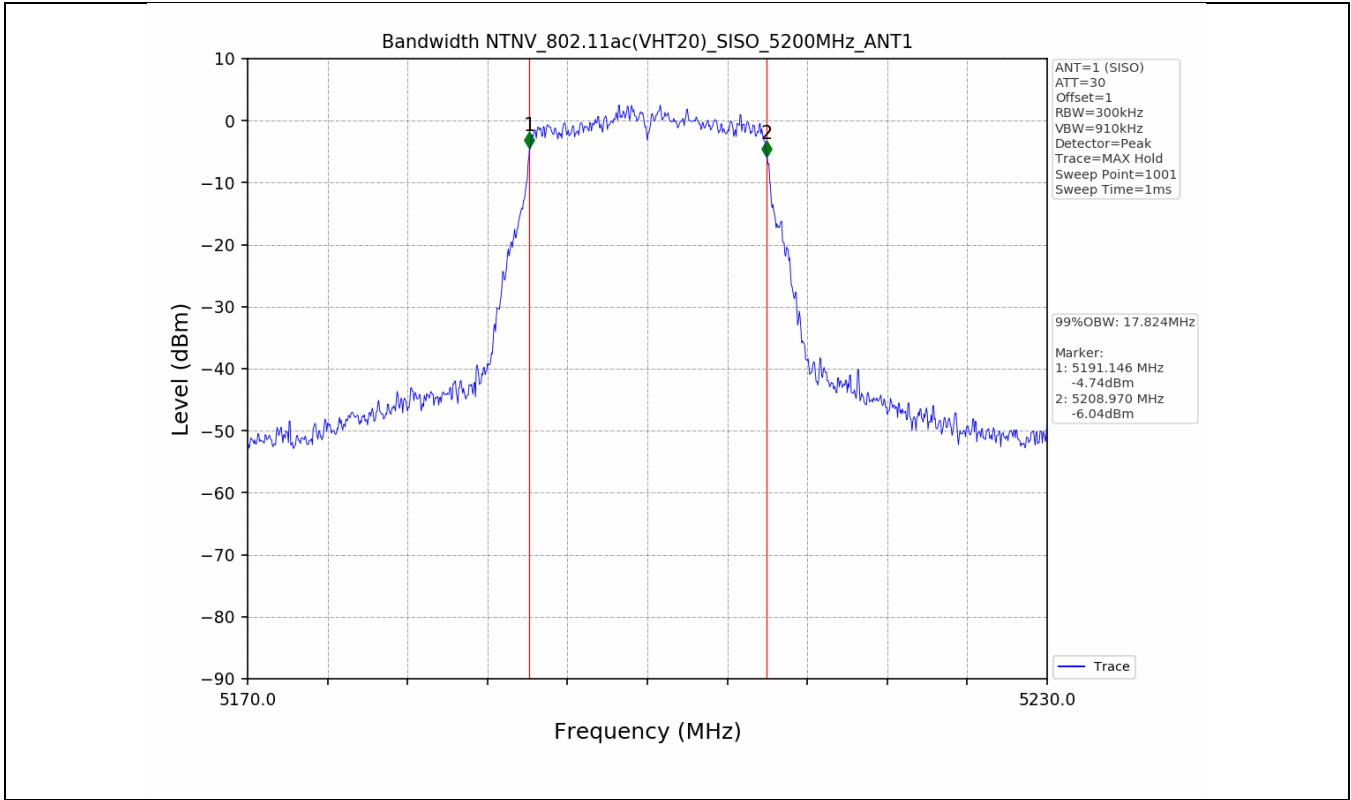
Bandwidth NTN\_V\_802.11a\_SISO\_5240MHz\_ANT1

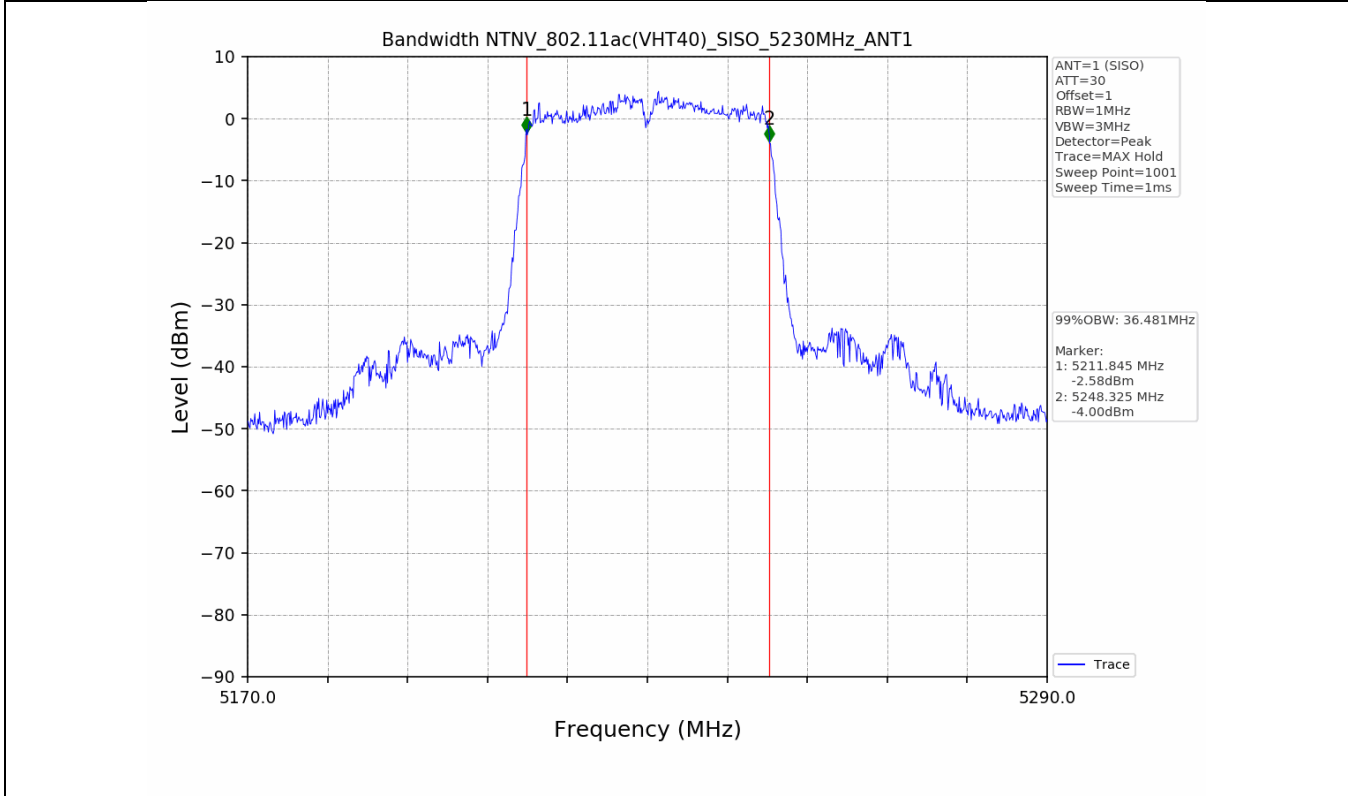
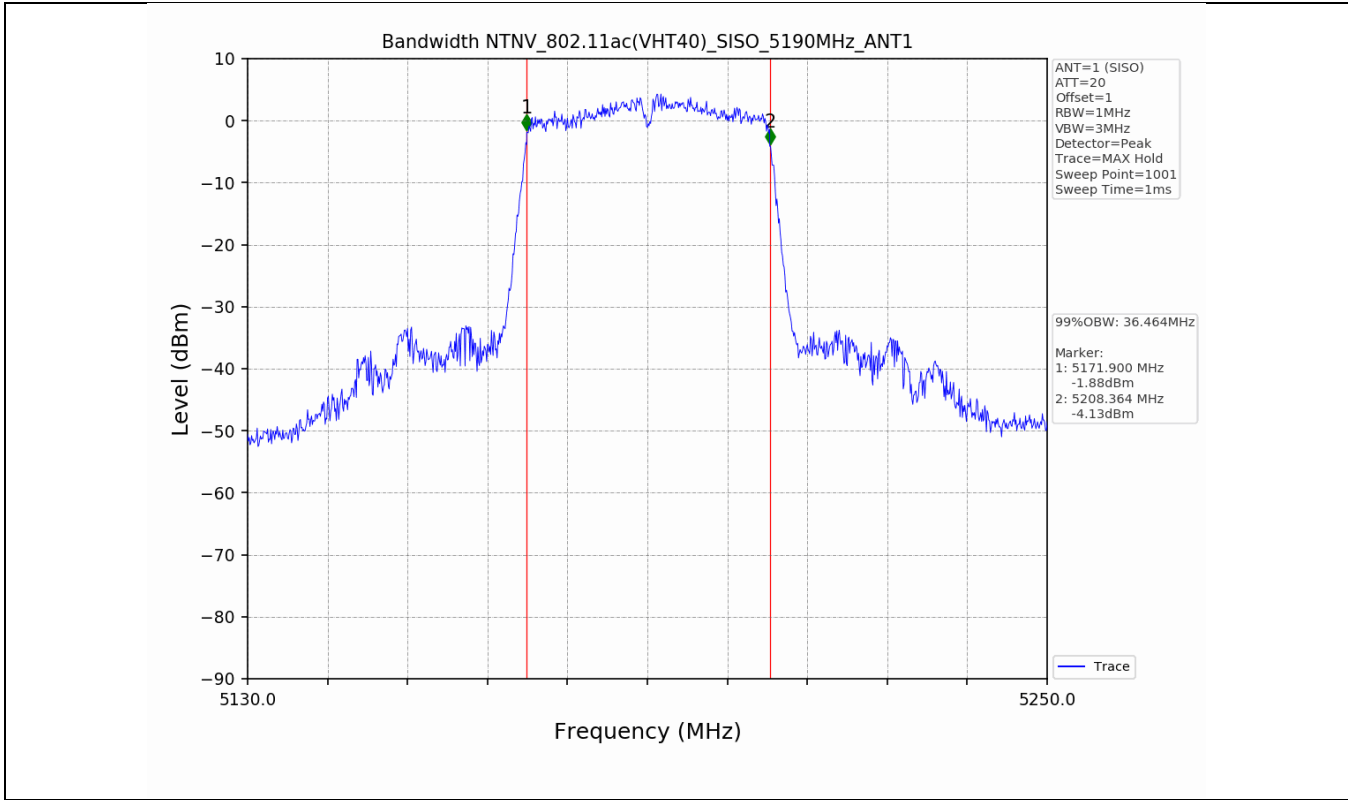




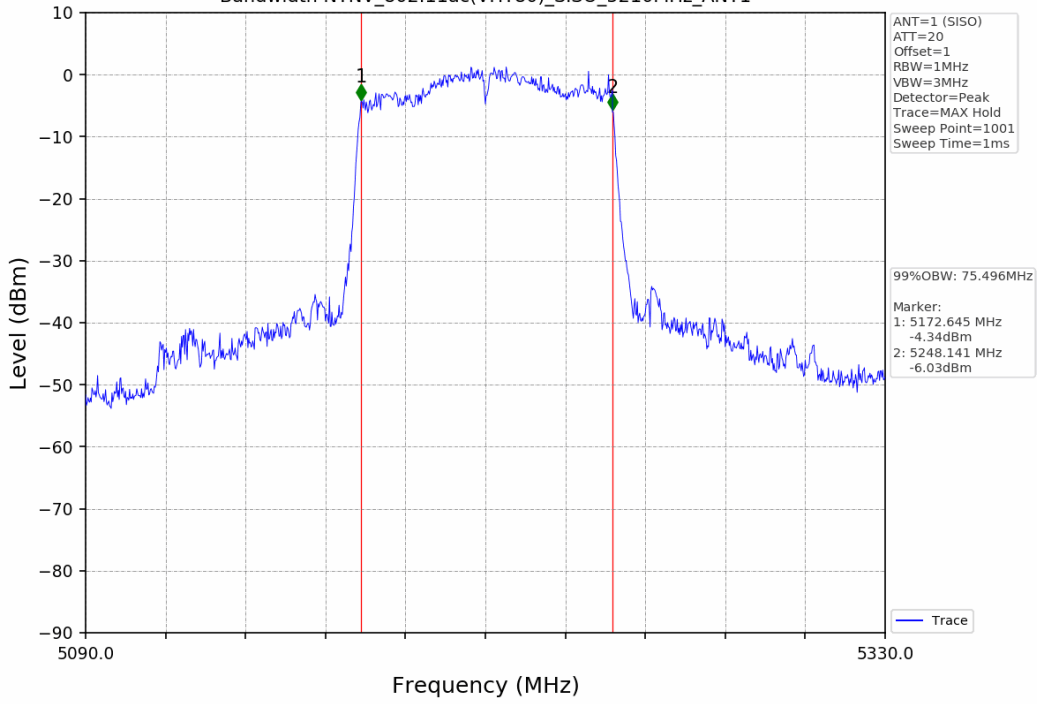








Bandwidth NTN\_V\_802.11ac(VHT80)\_SISO\_5210MHz\_ANT1



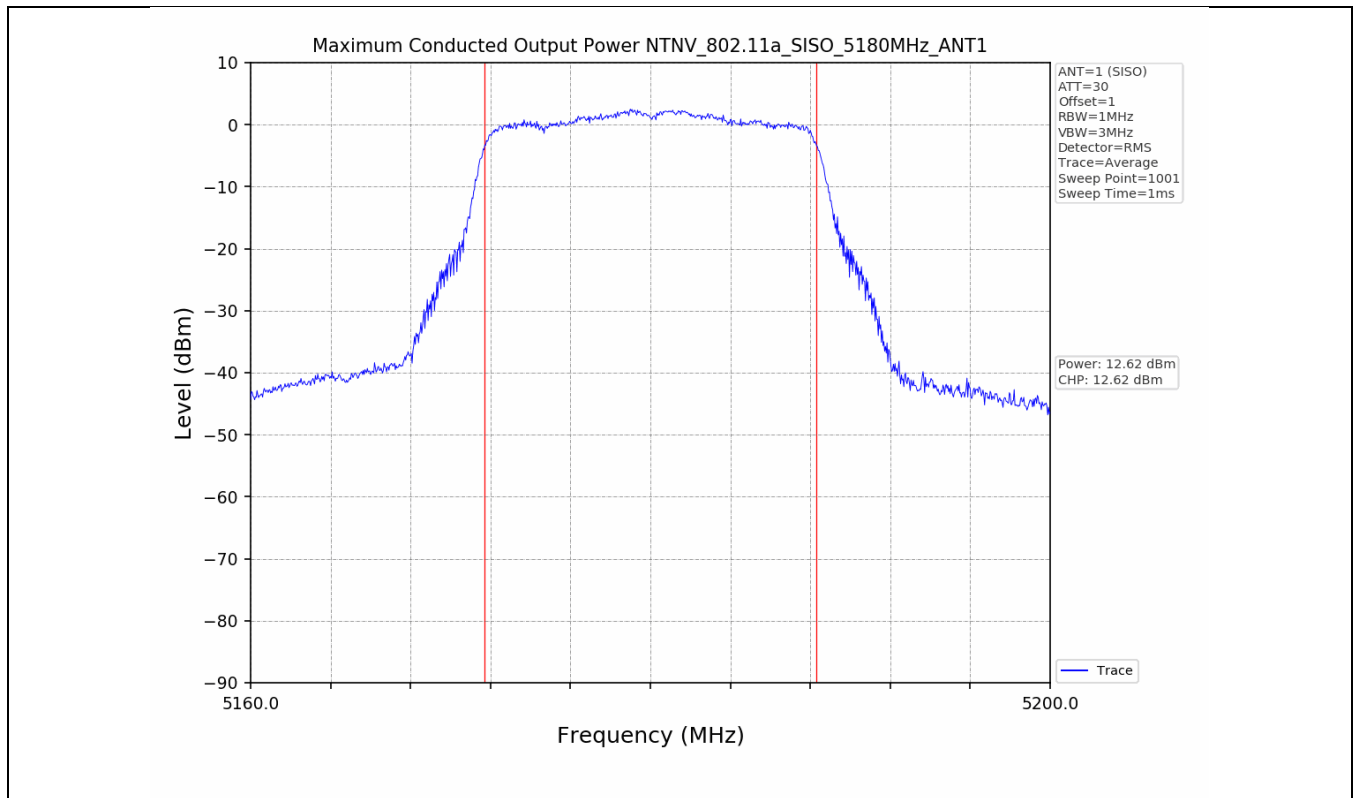


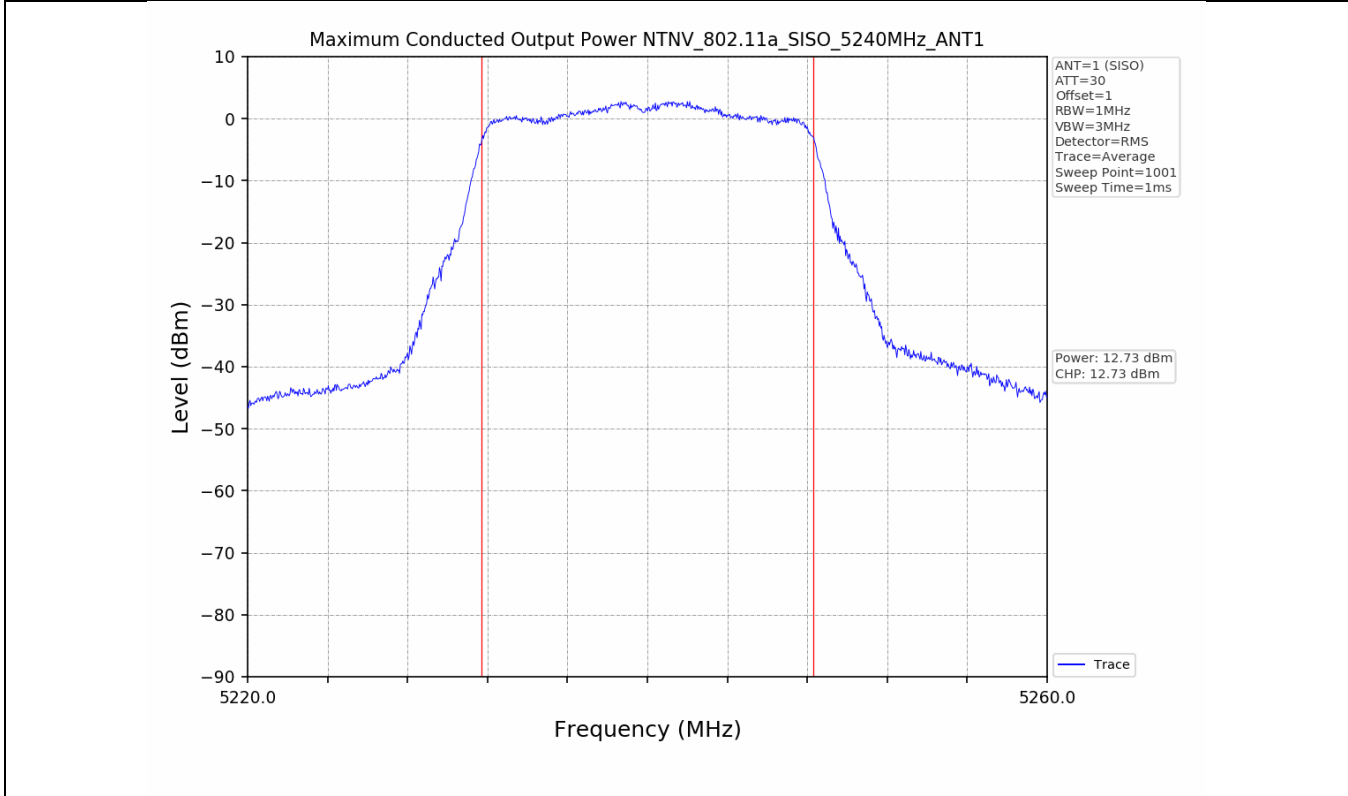
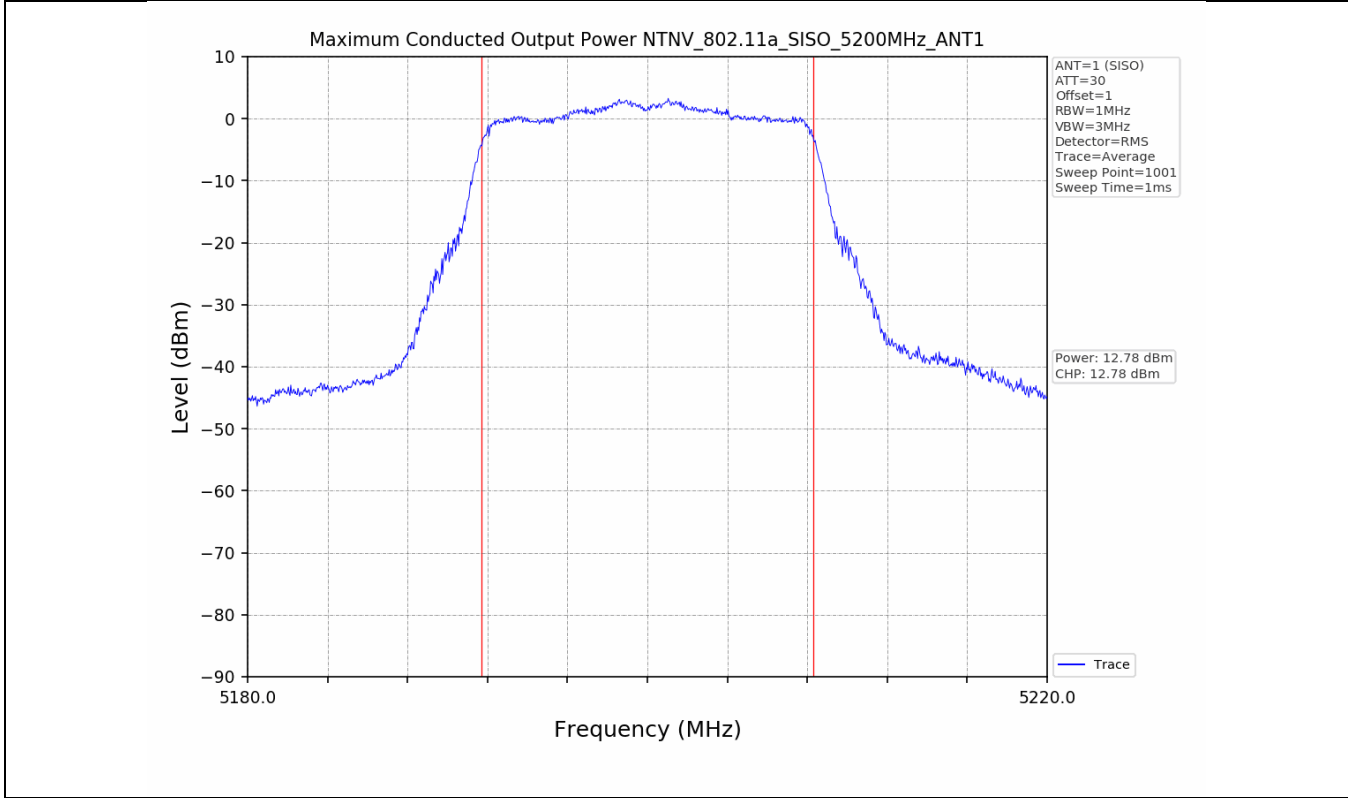
## 2. Maximum Conducted Output Power

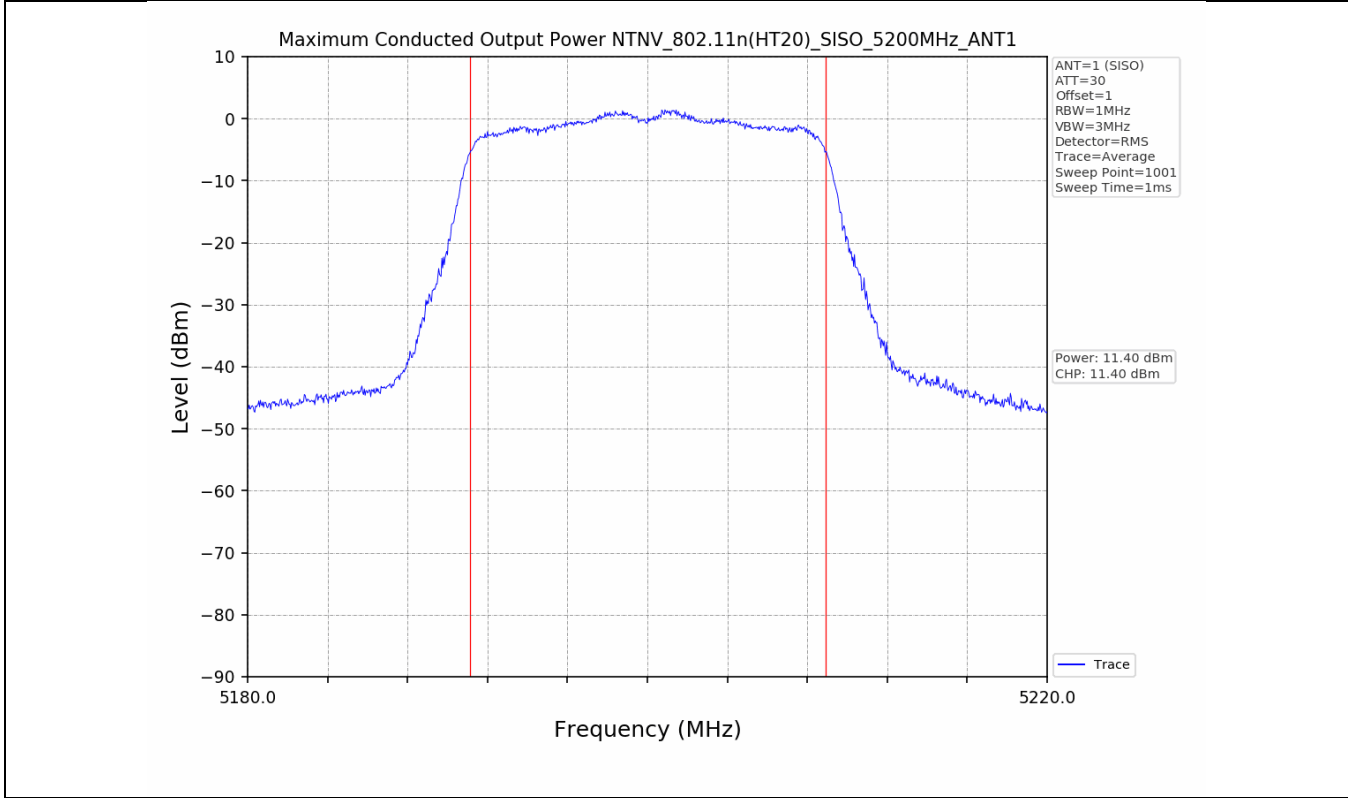
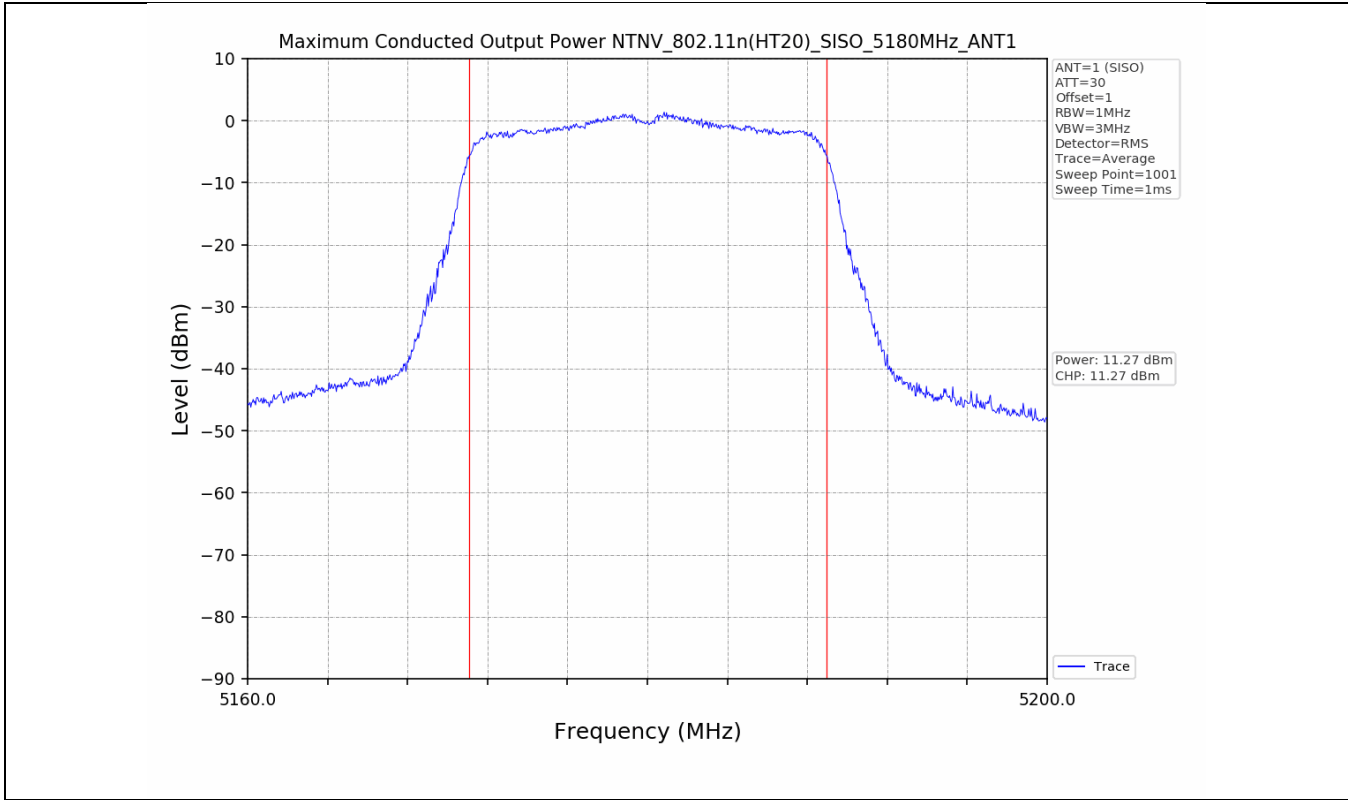
### 2.1 Test Result

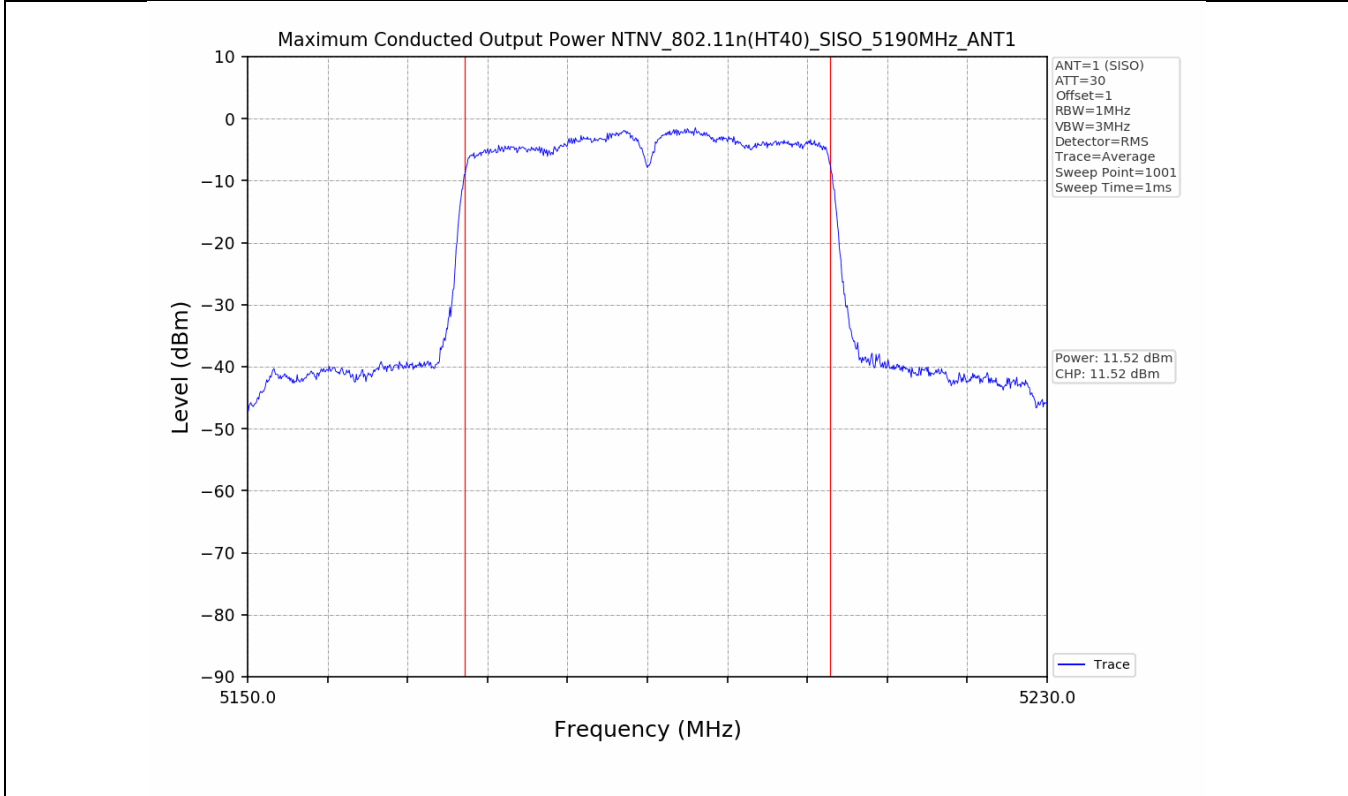
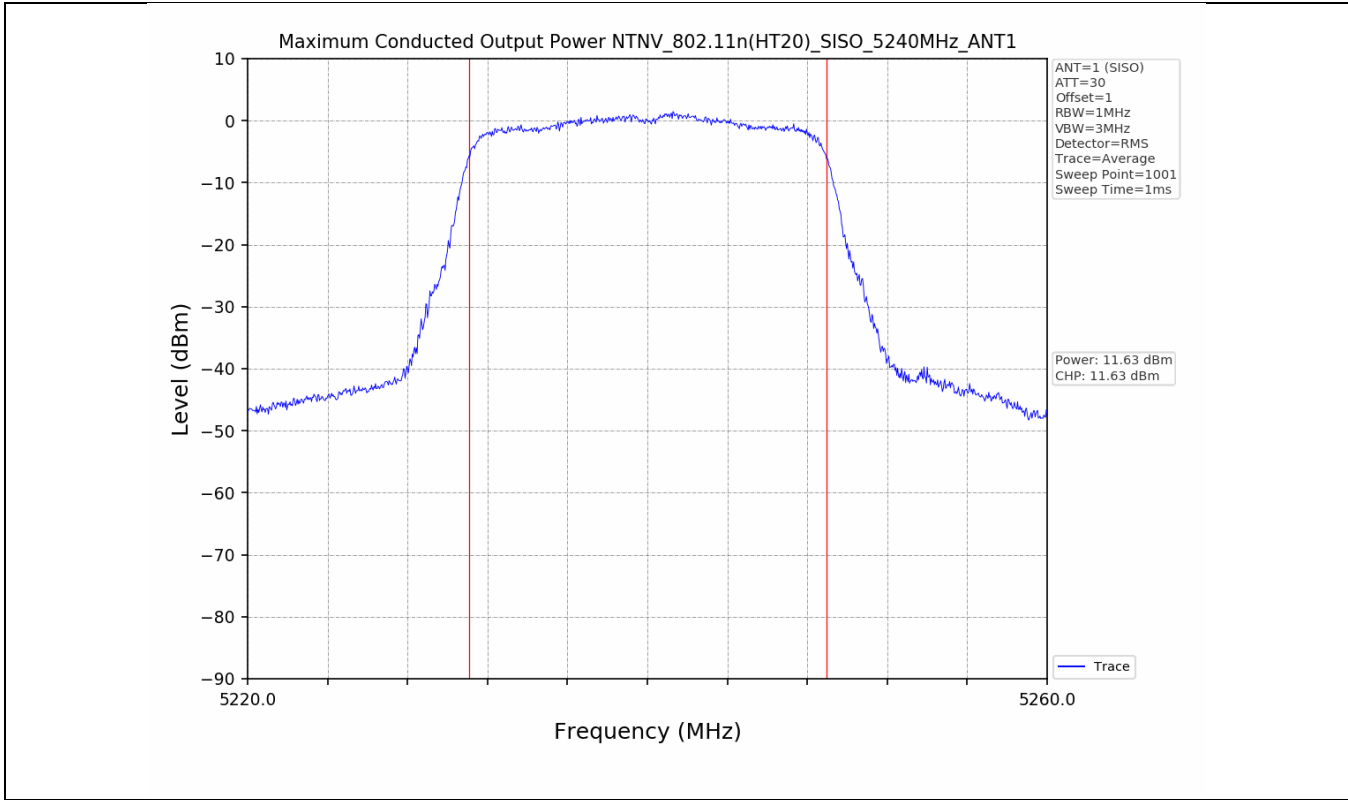
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5180	SISO	12.62	≤23.98	PASS
	5200	SISO	12.78	≤23.98	PASS
	5240	SISO	12.73	≤23.98	PASS
802.11n(HT20)	5180	SISO	11.27	≤23.98	PASS
	5200	SISO	11.40	≤23.98	PASS
	5240	SISO	11.63	≤23.98	PASS
802.11n(HT40)	5190	SISO	11.52	≤23.98	PASS
	5230	SISO	18.53	≤23.98	PASS
802.11ac(VHT20)	5180	SISO	9.25	≤23.98	PASS
	5200	SISO	9.53	≤23.98	PASS
	5240	SISO	10.66	≤23.98	PASS
802.11ac(VHT40)	5190	SISO	13.78	≤23.98	PASS
	5230	SISO	8.29	≤23.98	PASS
802.11ac(VHT80)	5210	SISO	8.07	≤23.98	PASS

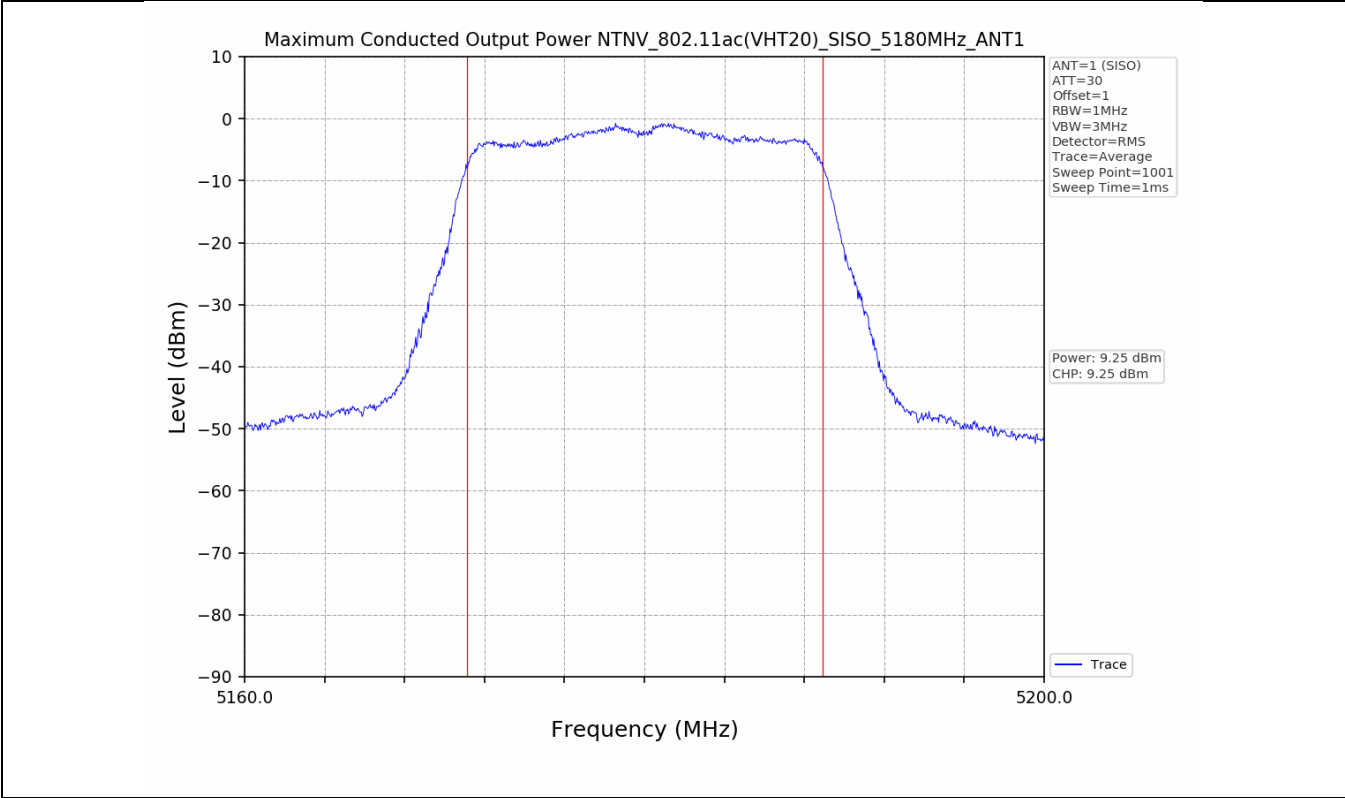
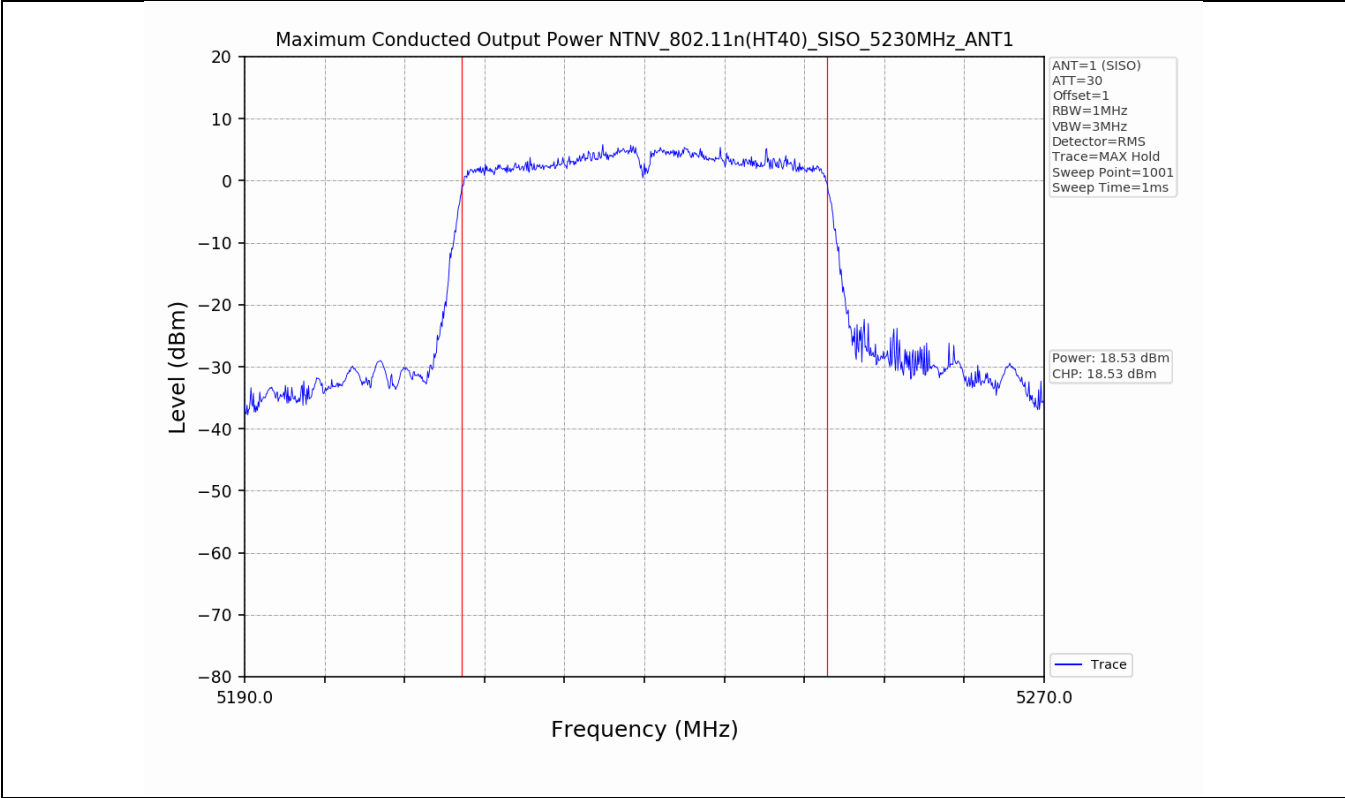
### 2.2 Test Graph

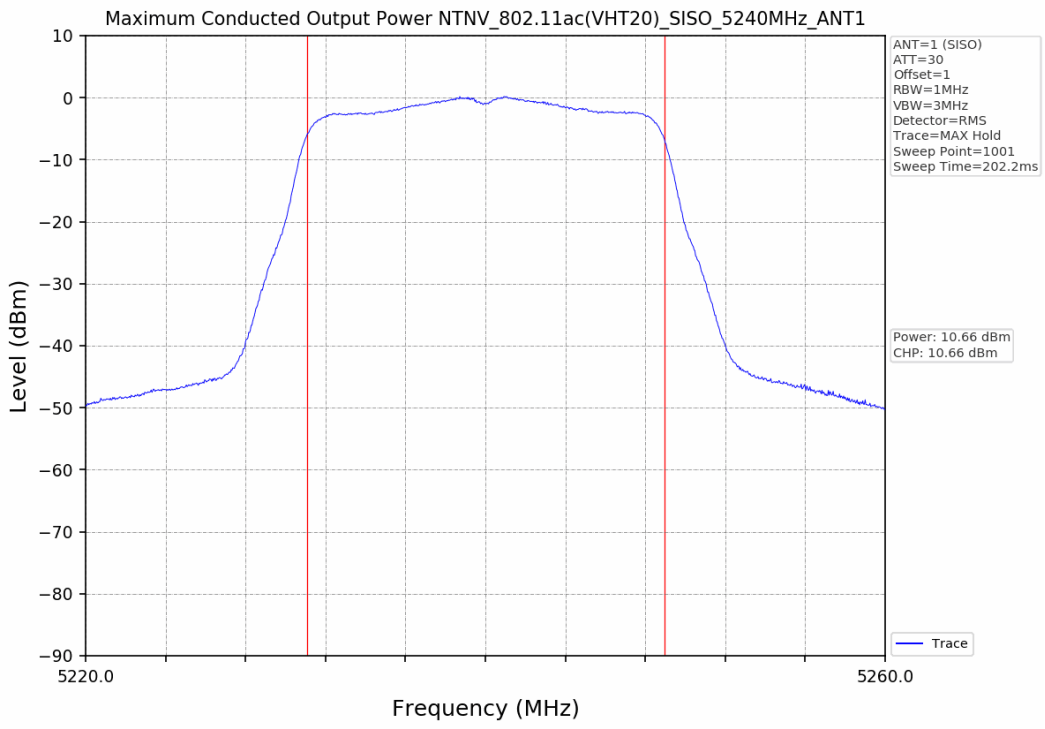
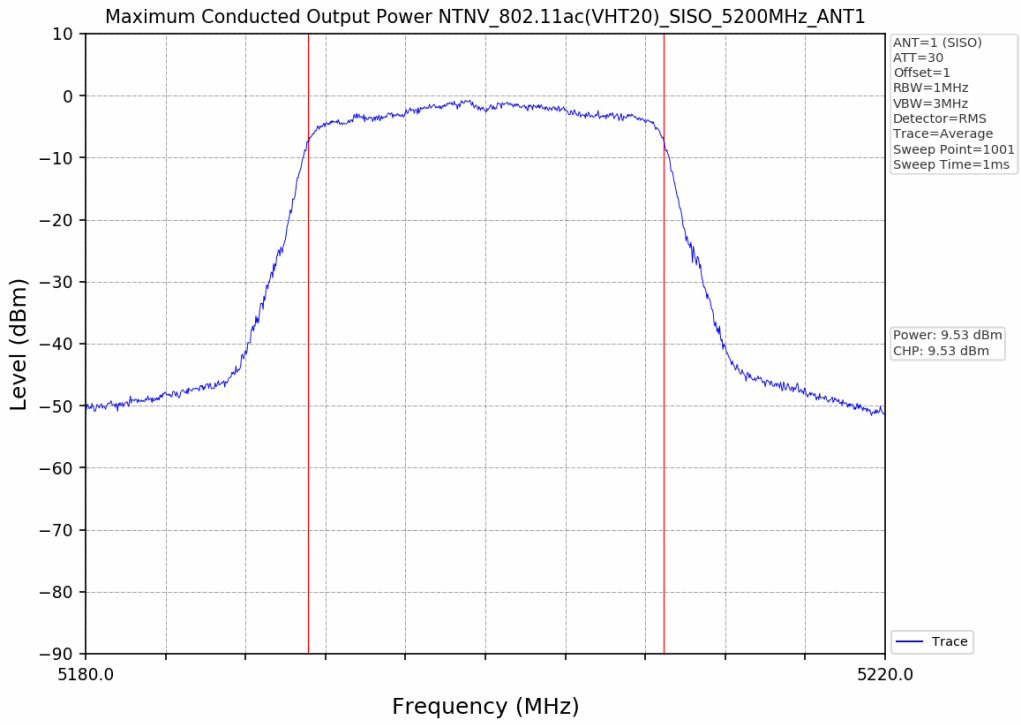


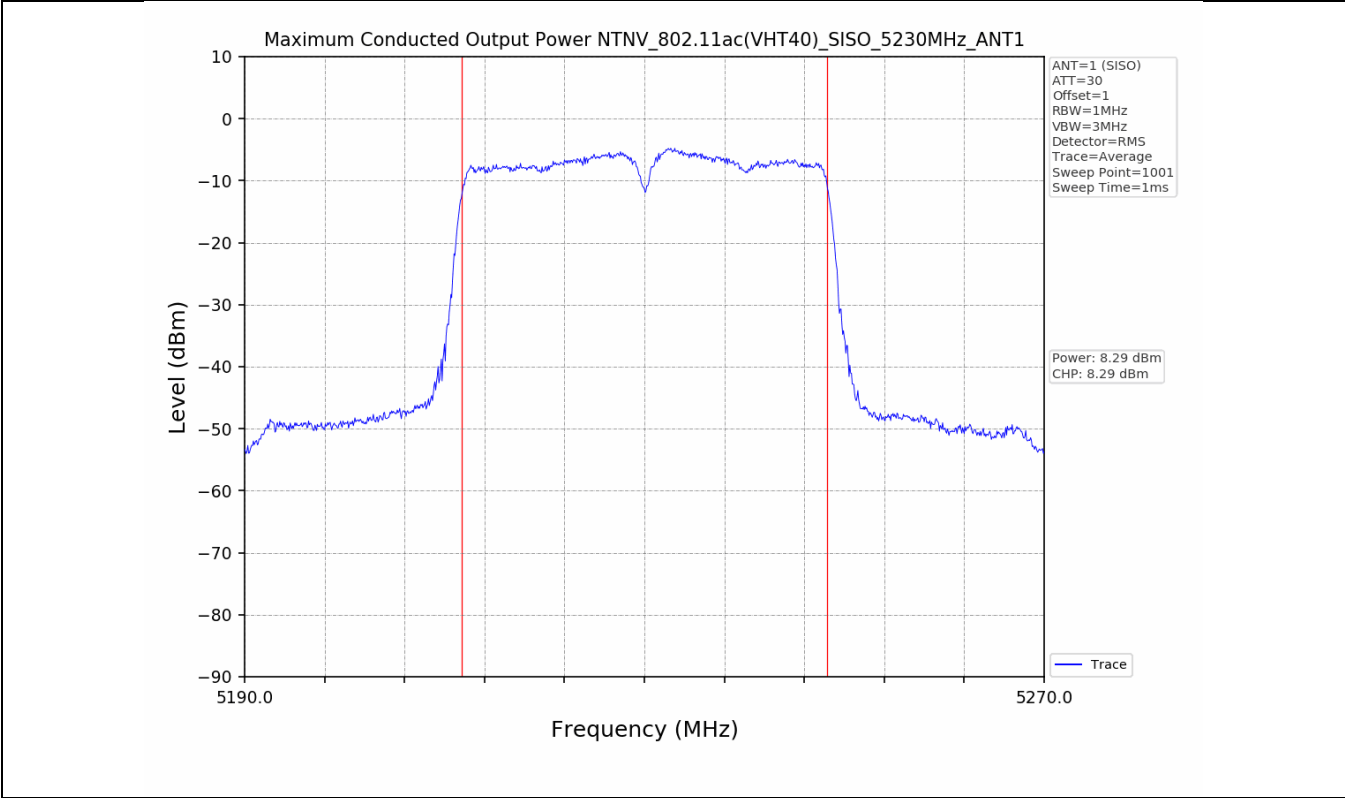
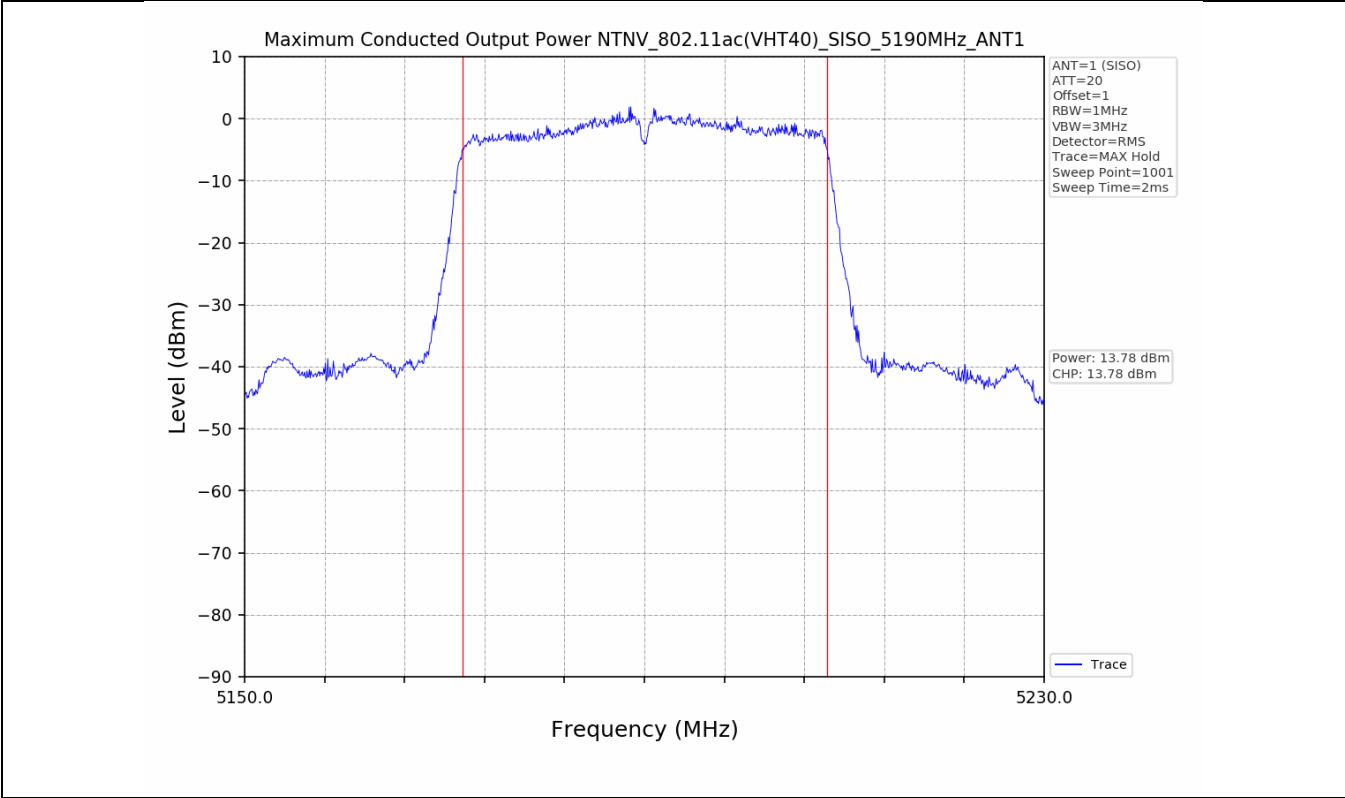




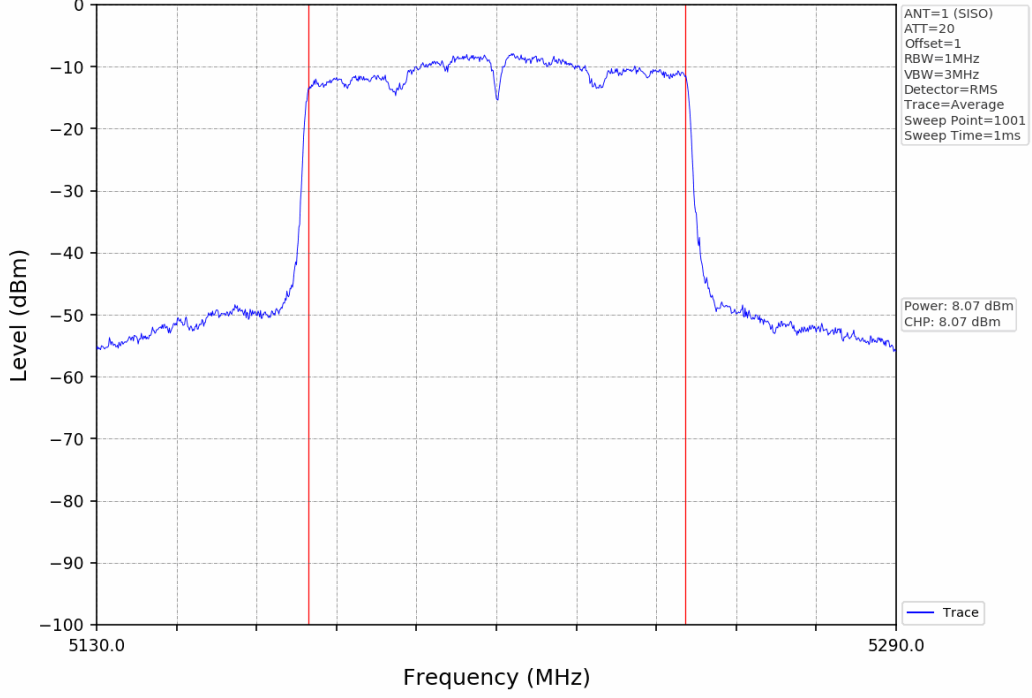








Maximum Conducted Output Power NTV\_802.11ac(VHT80)\_SISO\_5210MHz\_ANT1



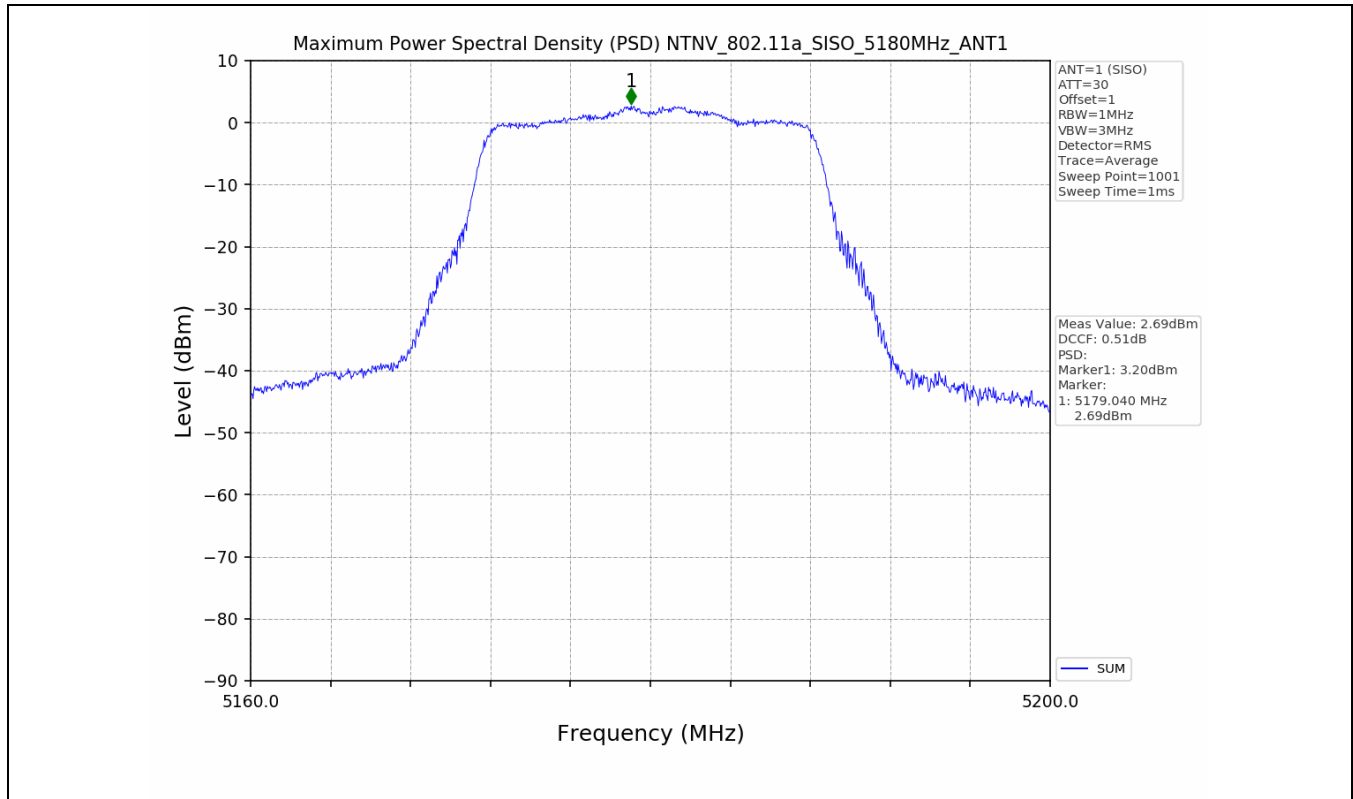


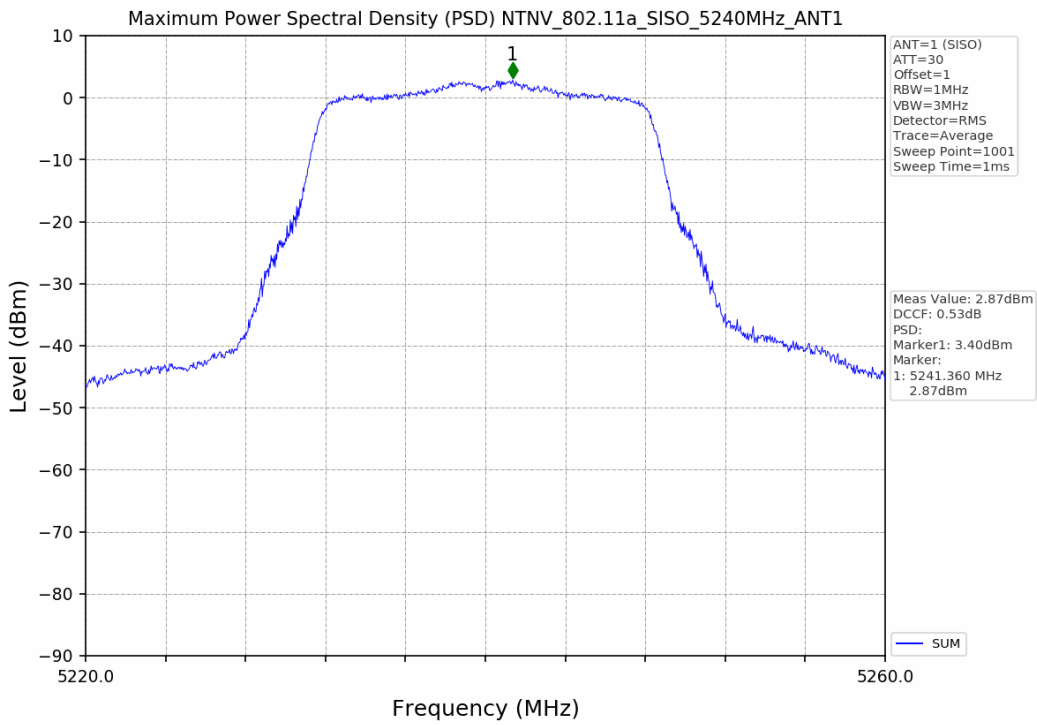
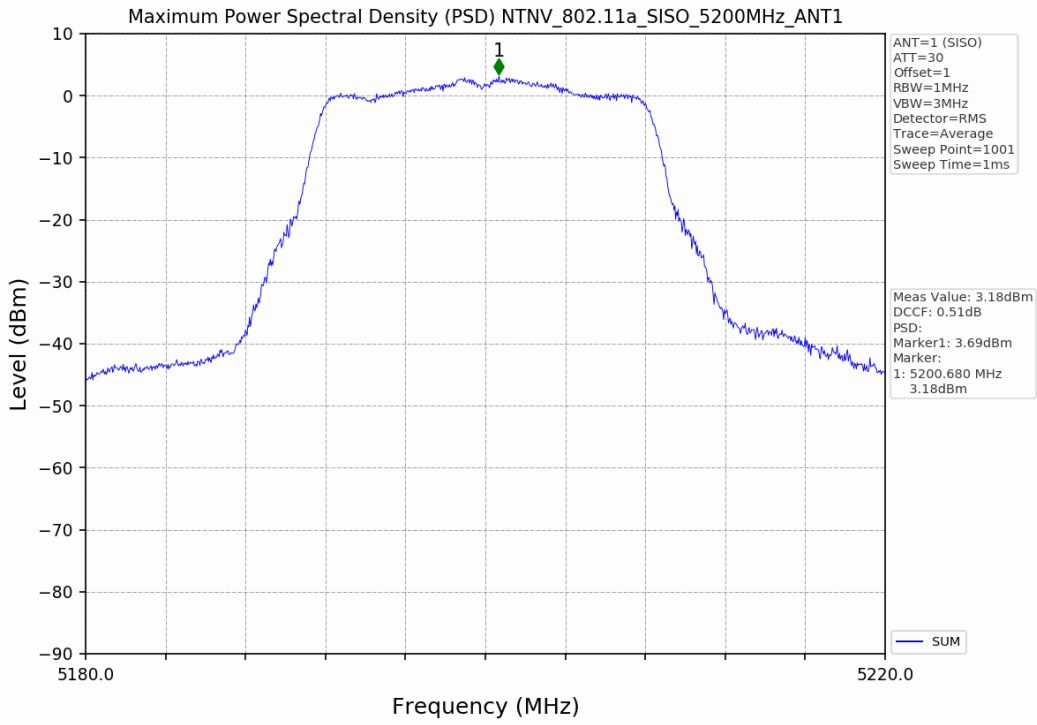
### 3. Maximum Power Spectral Density (PSD)

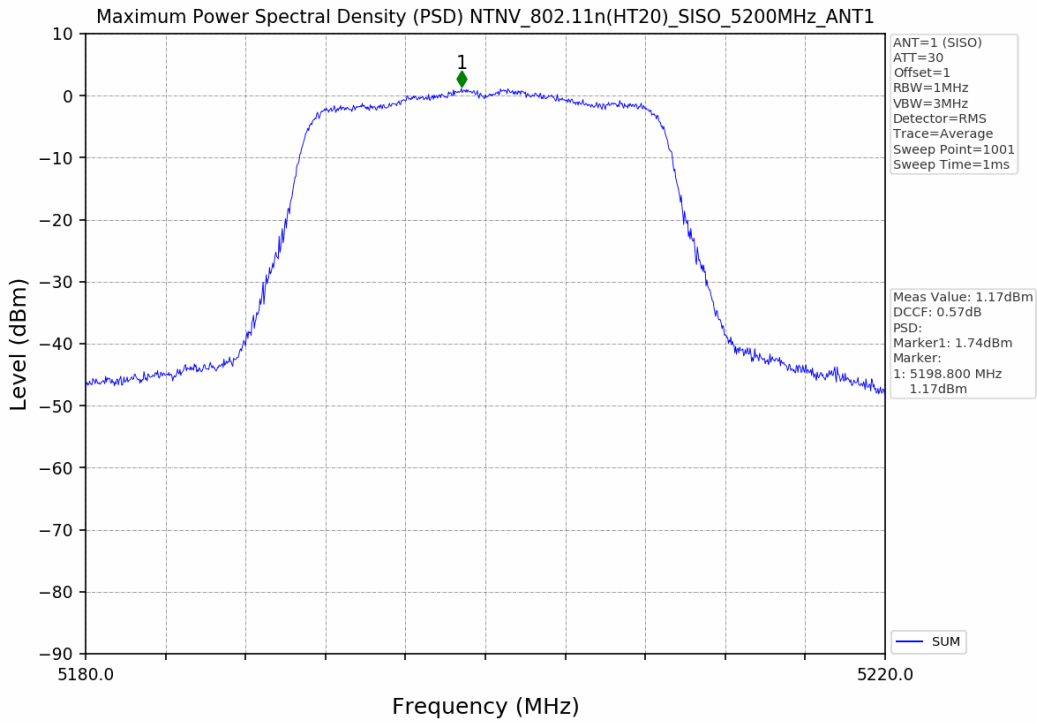
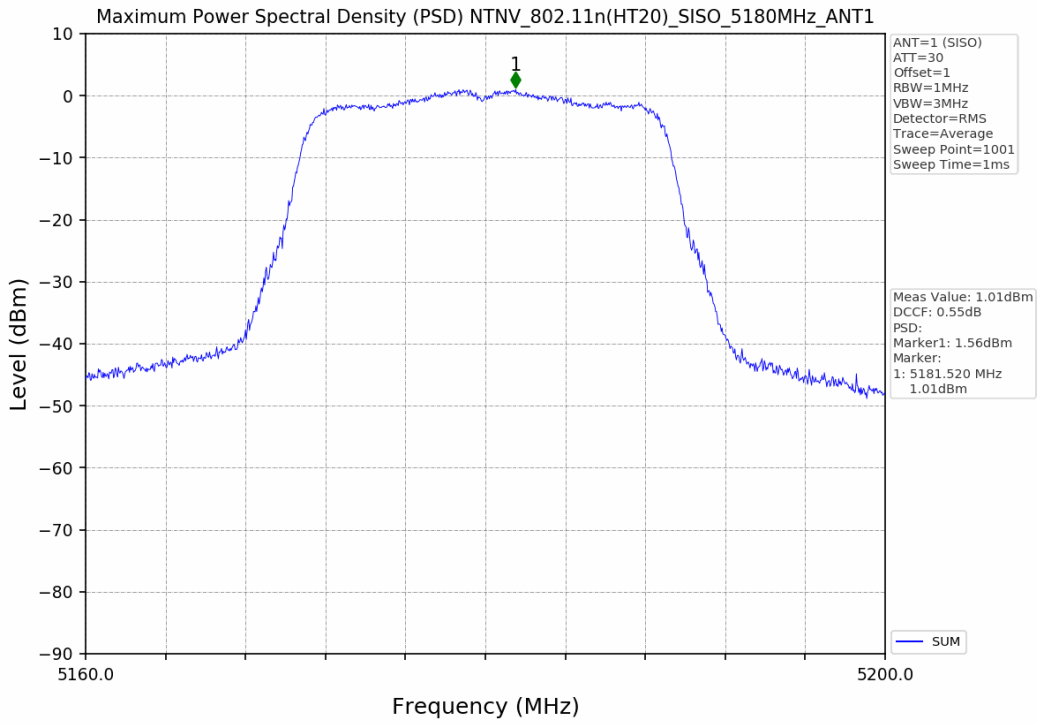
#### 3.1 Test Result

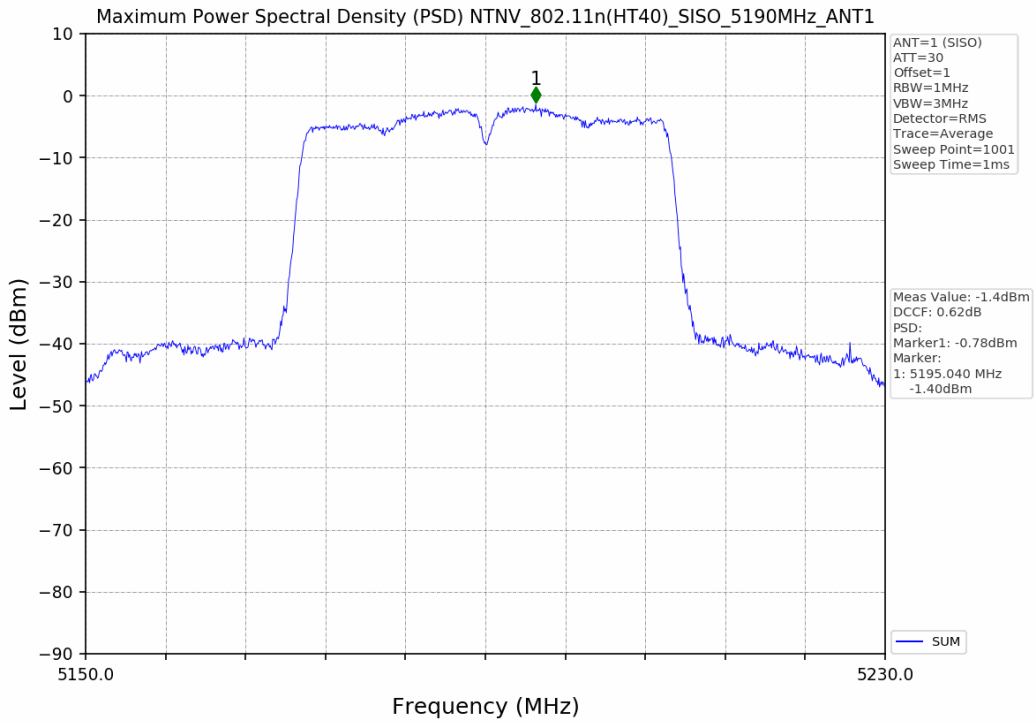
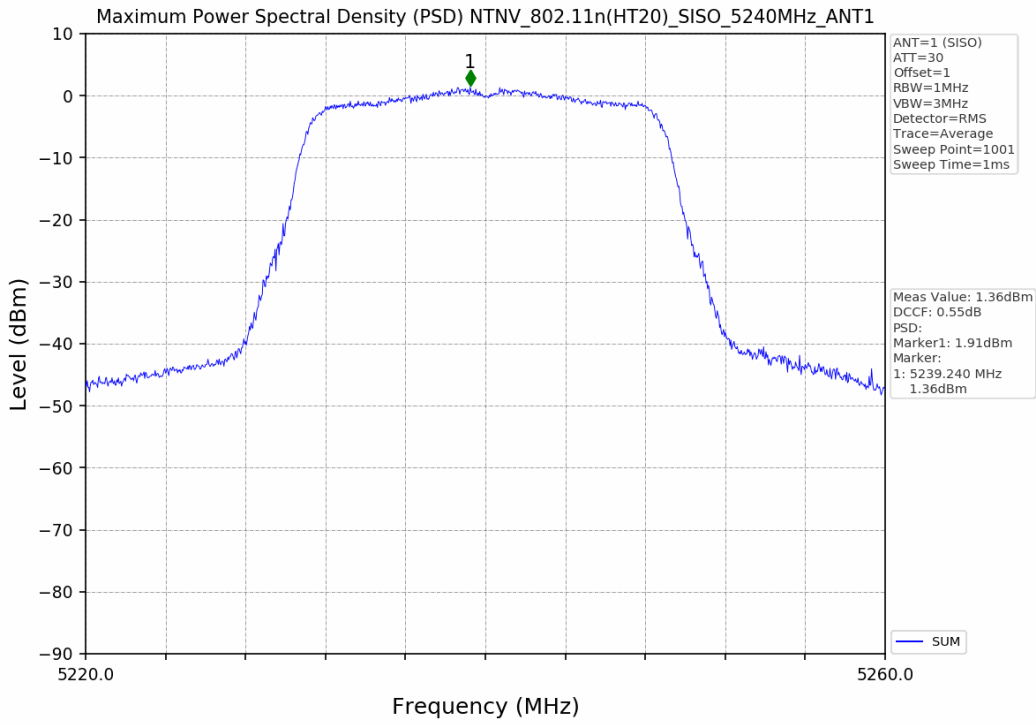
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5180	SISO	3.20	≤11	PASS
	5200	SISO	3.69	≤11	PASS
	5240	SISO	3.40	≤11	PASS
802.11n(HT20)	5180	SISO	1.56	≤11	PASS
	5200	SISO	1.74	≤11	PASS
	5240	SISO	1.91	≤11	PASS
802.11n(HT40)	5190	SISO	-0.78	≤11	PASS
	5230	SISO	6.11	≤11	PASS
802.11ac(VHT20)	5180	SISO	-0.58	≤11	PASS
	5200	SISO	-0.23	≤11	PASS
	5240	SISO	0.14	≤11	PASS
802.11ac(VHT40)	5190	SISO	1.33	≤11	PASS
	5230	SISO	-4.30	≤11	PASS
802.11ac(VHT80)	5210	SISO	-6.90	≤11	PASS

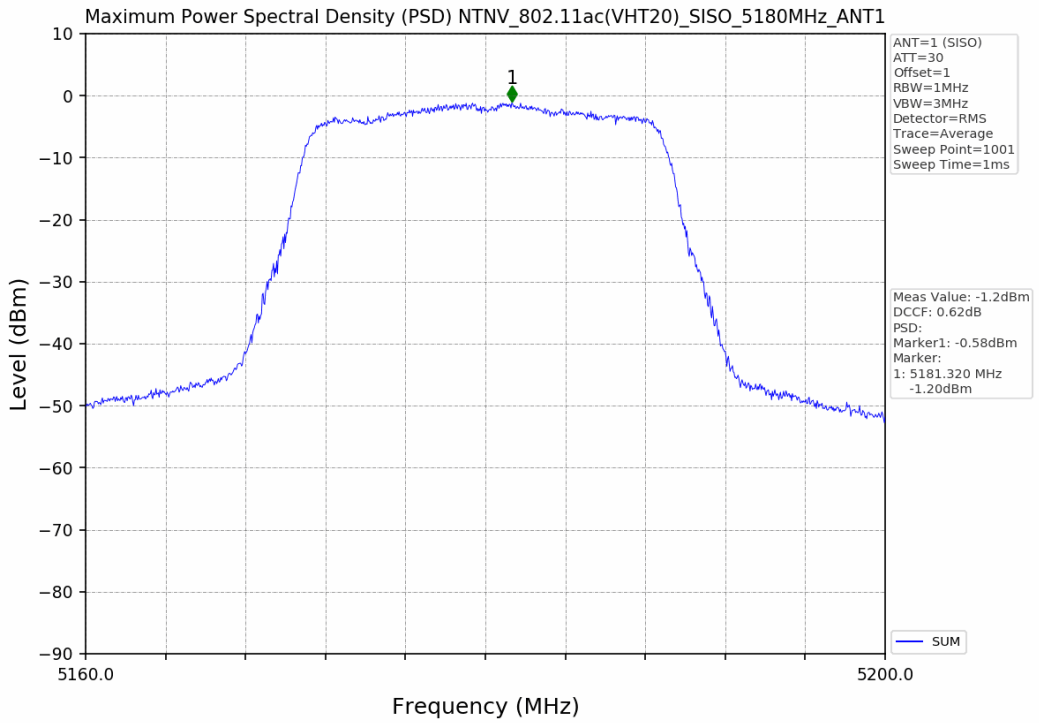
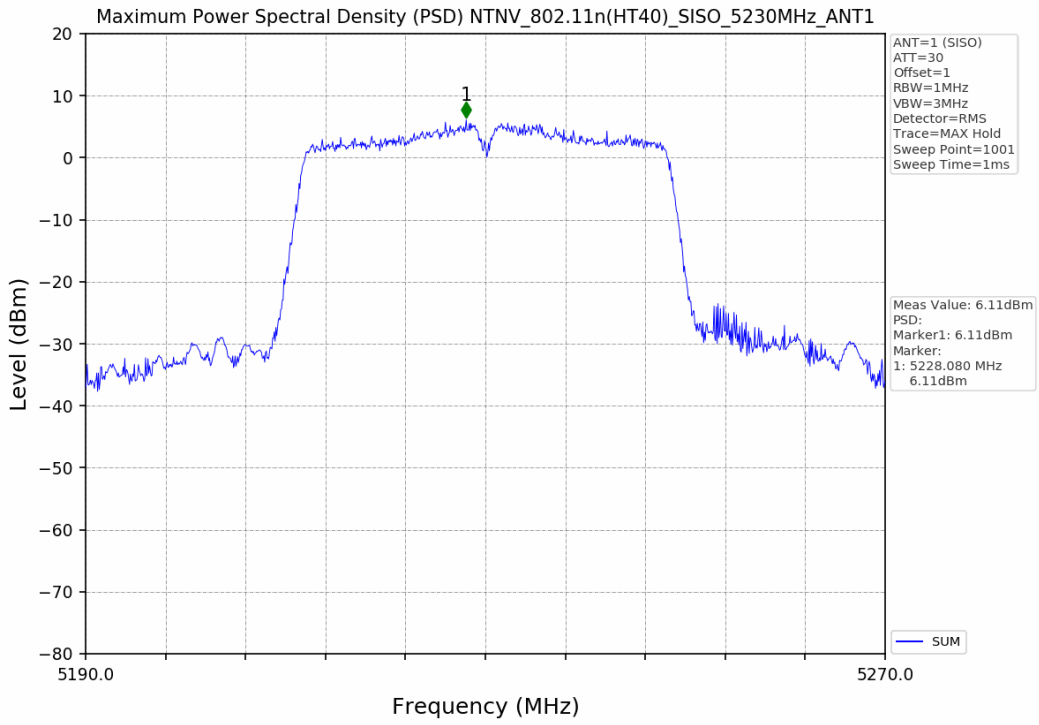
#### 3.2 Test Graph

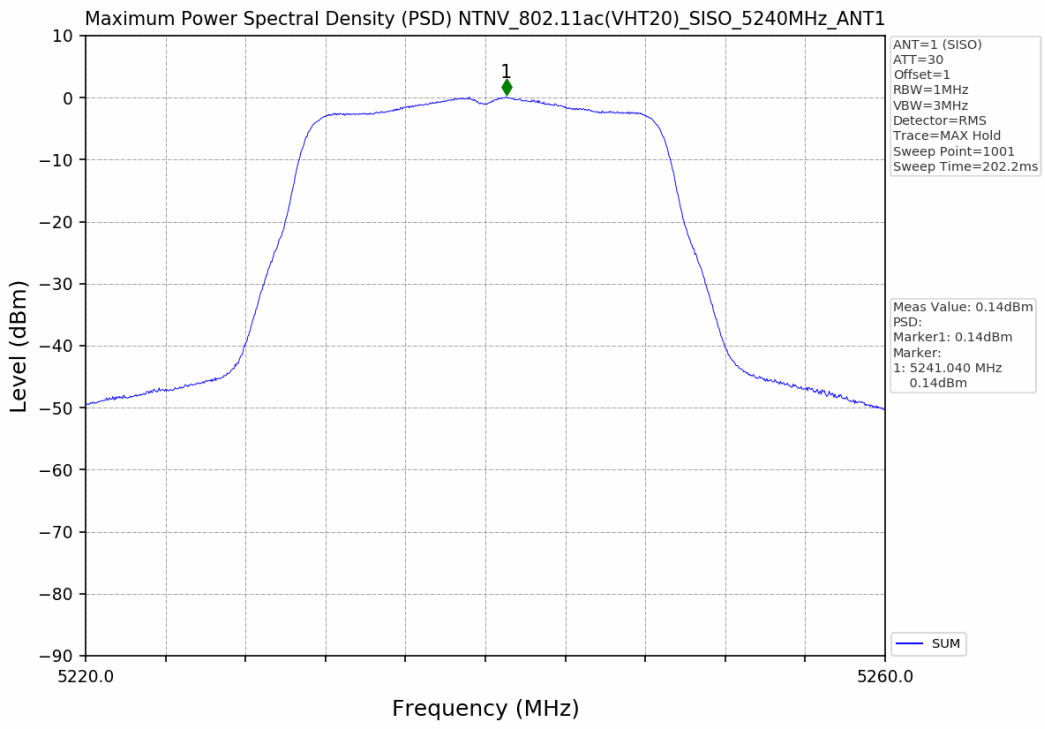
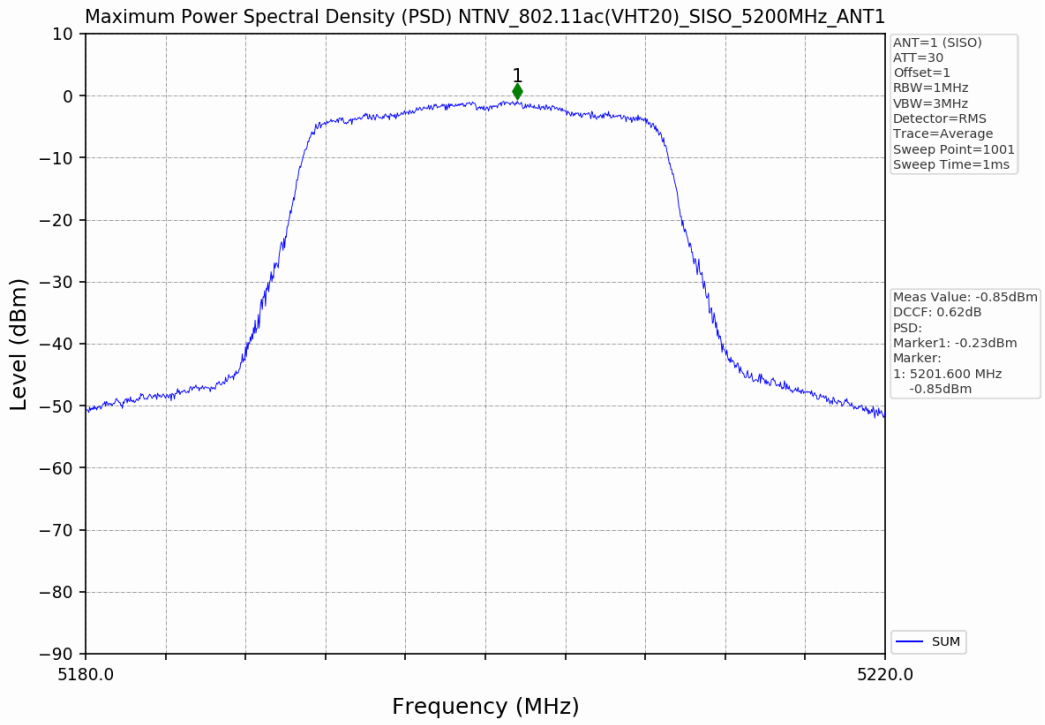


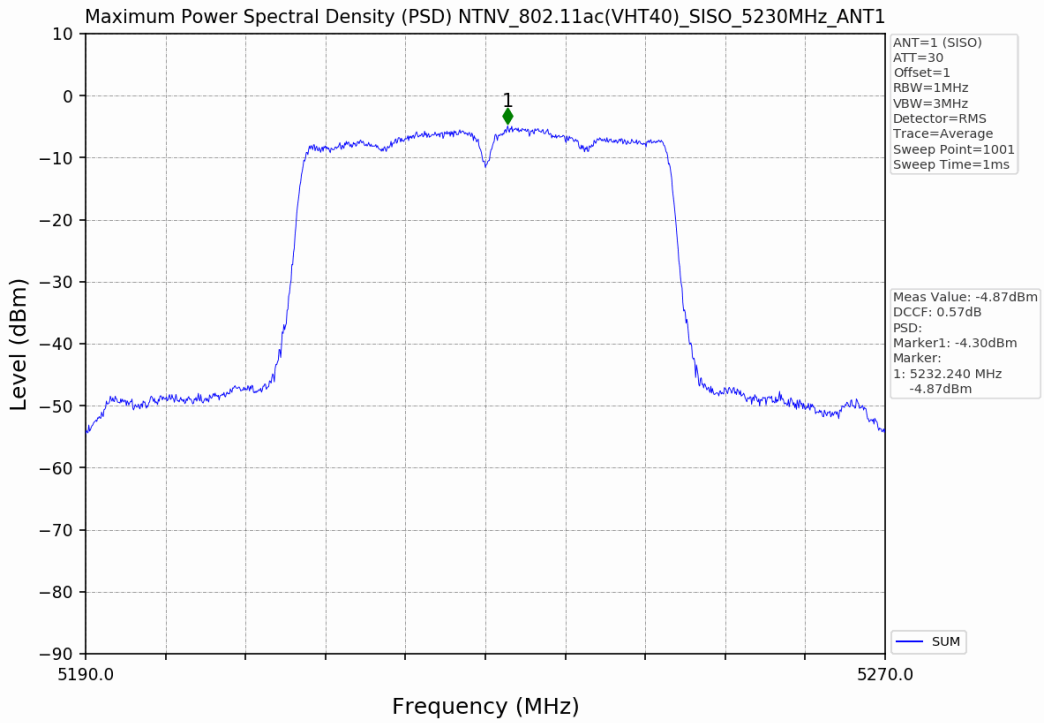
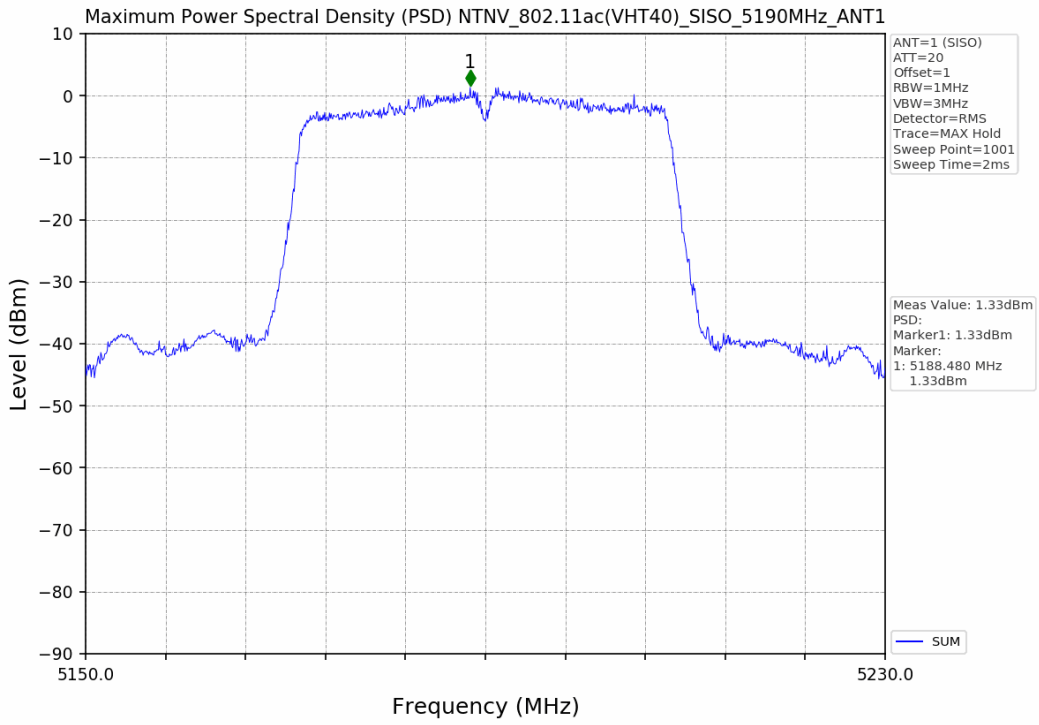


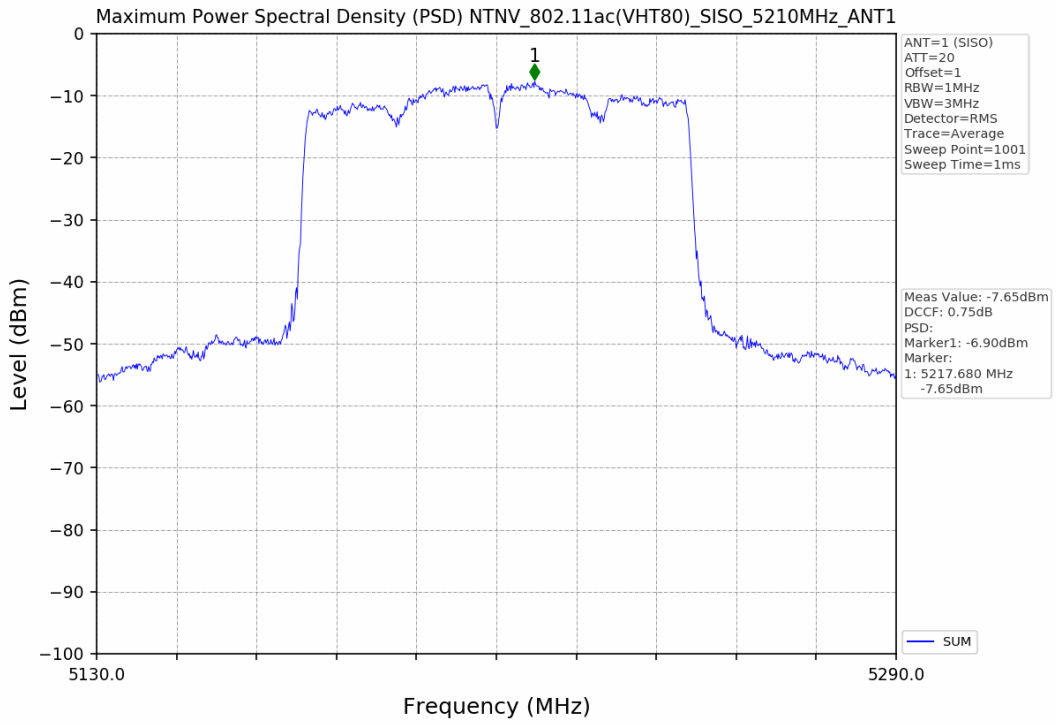














#### 4. Frequency Stability

##### 4.1 Test Result

Reference Frequency: 802.11a channel=36 frequency=5180MHz					
Voltage ( V )	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
5.0	-30	45.6	8.60	Within the band of operation	Pass
	-20	66.7	12.57		
	-10	79.4	15.21		
	0	83.2	16.04		
	10	83.7	16.08		
	20	65.7	12.52		
	30	52.8	10.32		
	40	56.8	10.86		
	50	50.1	9.63		
5.5	25	90.6	17.41		
4.5	25	45.6	8.88		