

**Test Data for 5G\_Band 4**  
**Product Name: WIFI module**  
**Test Model: ALX850B**

**Appendix for 15.407**

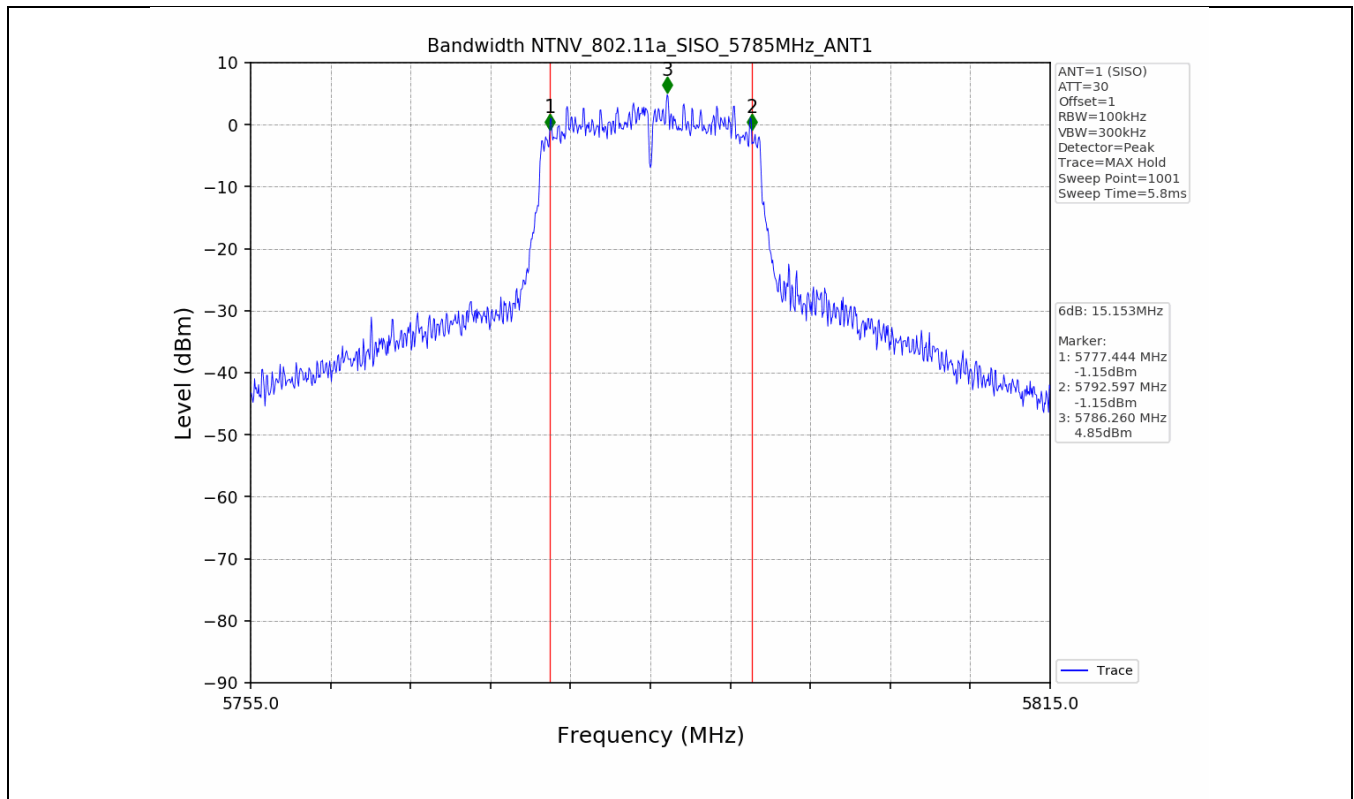
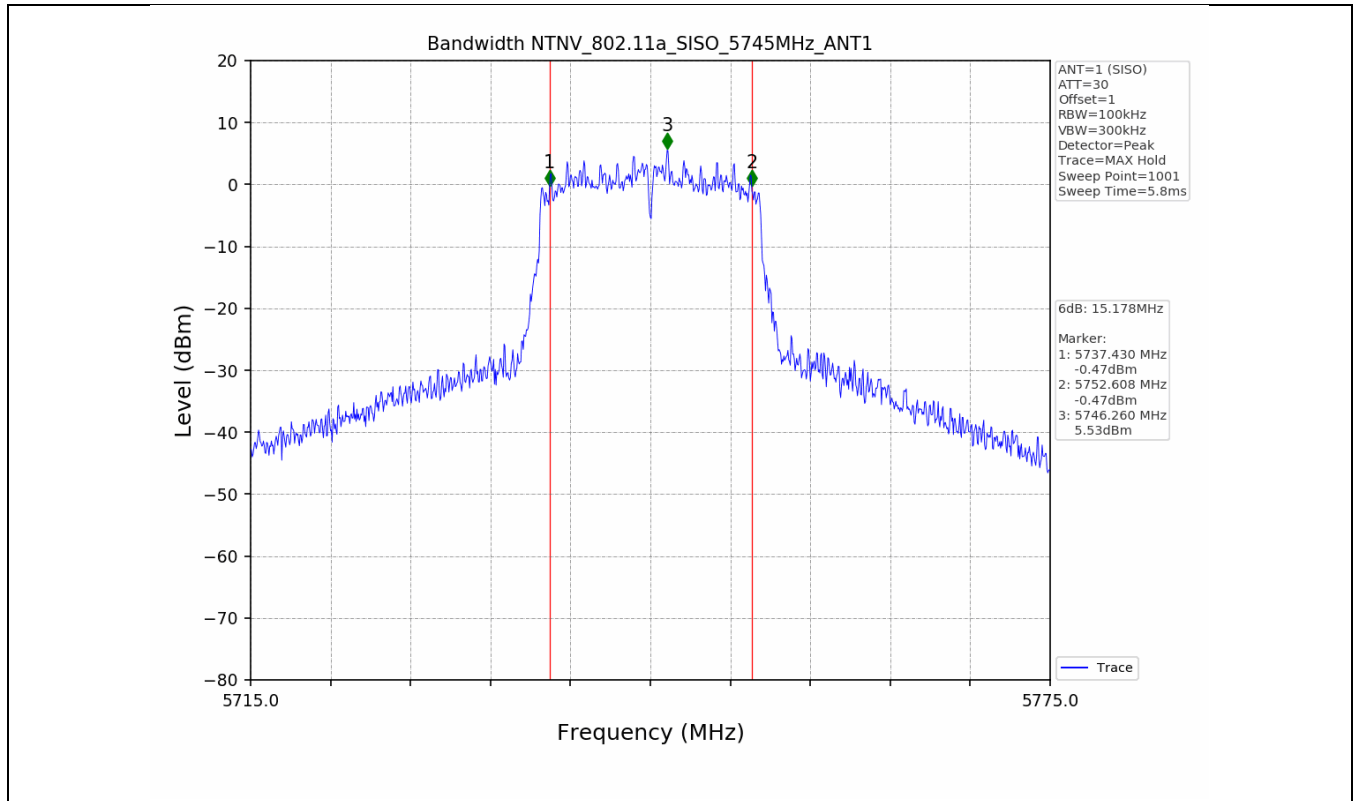
**1. Bandwidth**

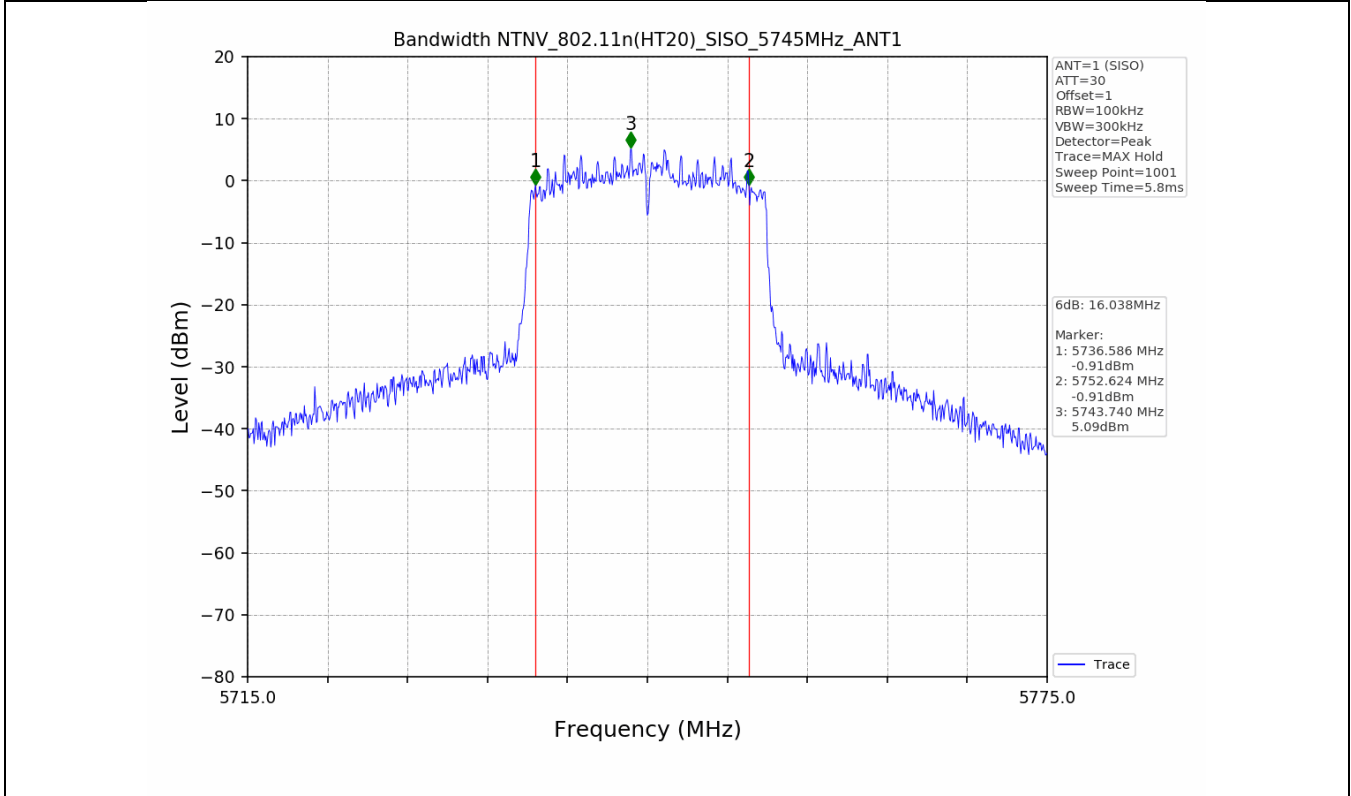
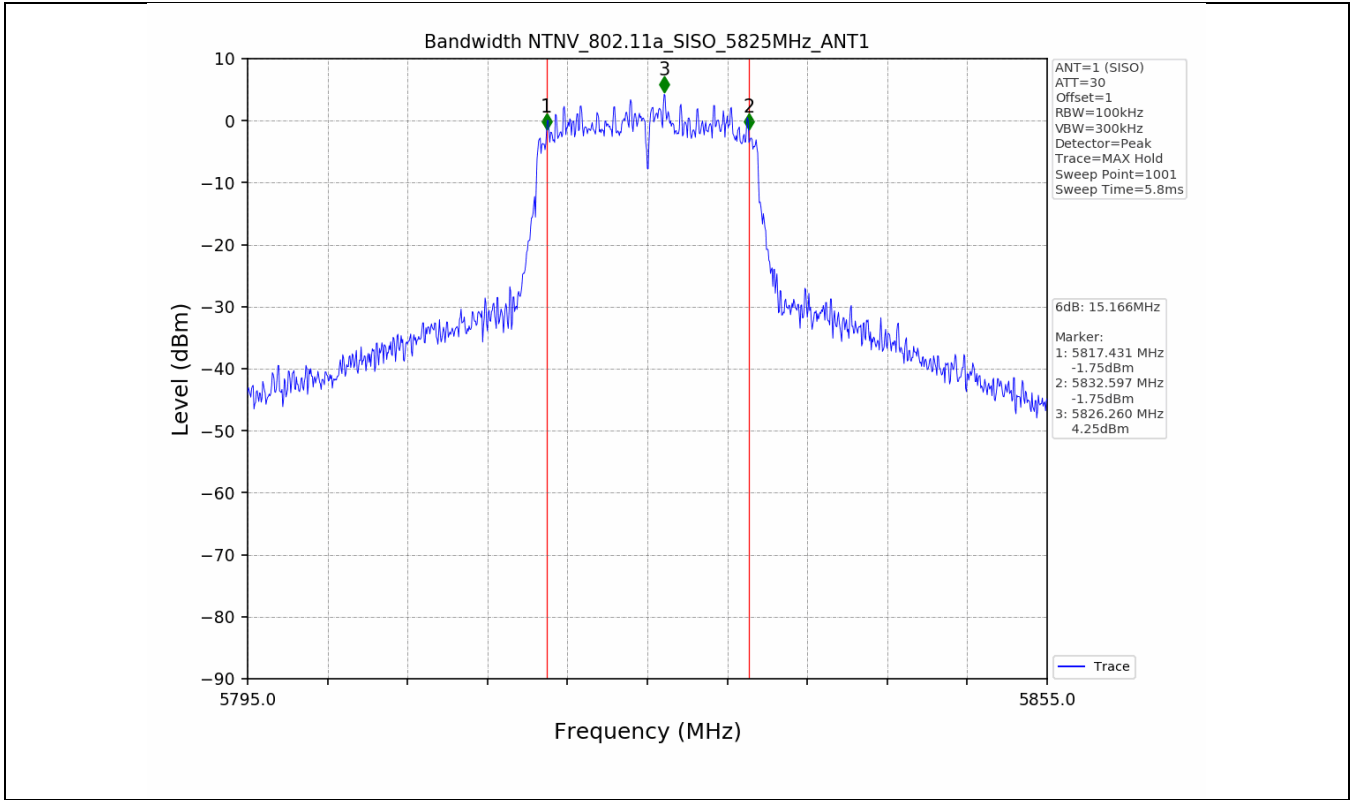
**1.1 Test Result**

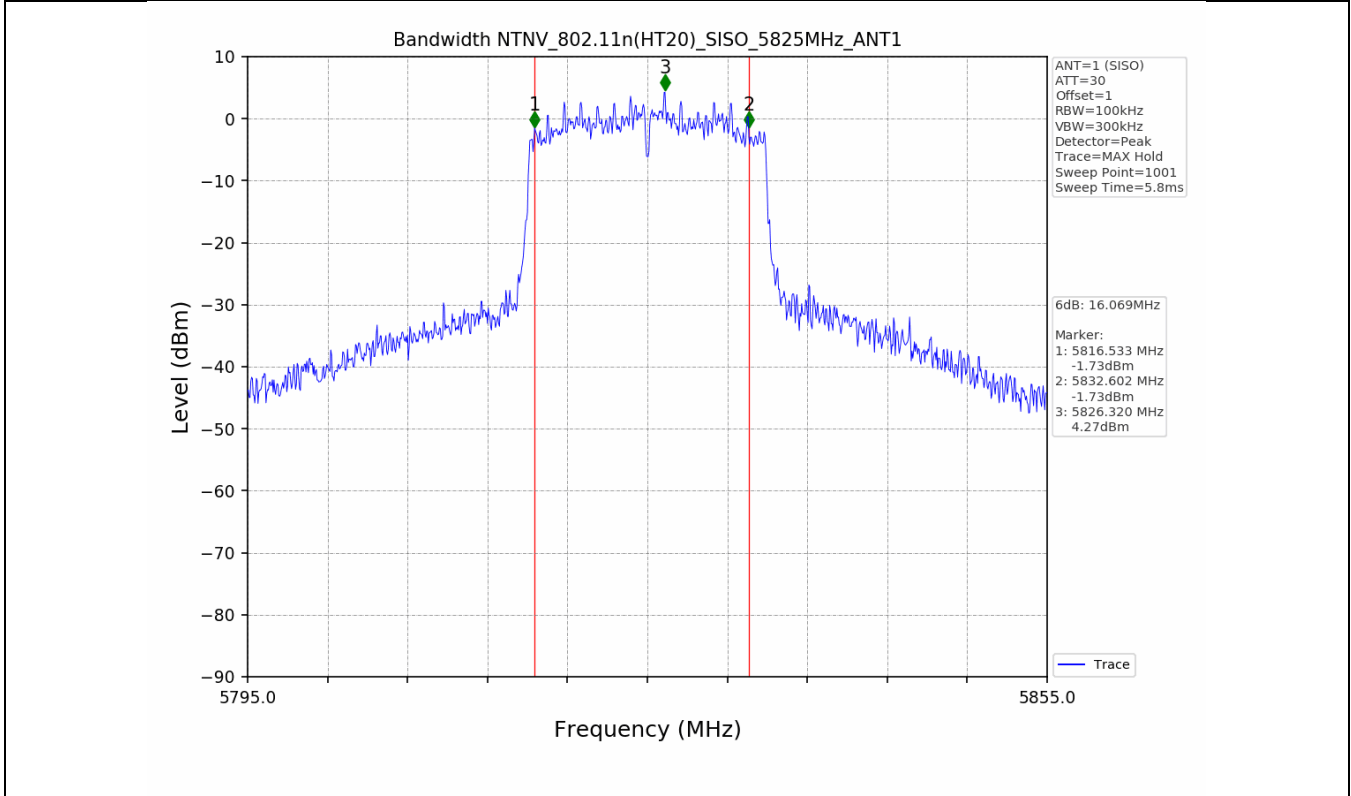
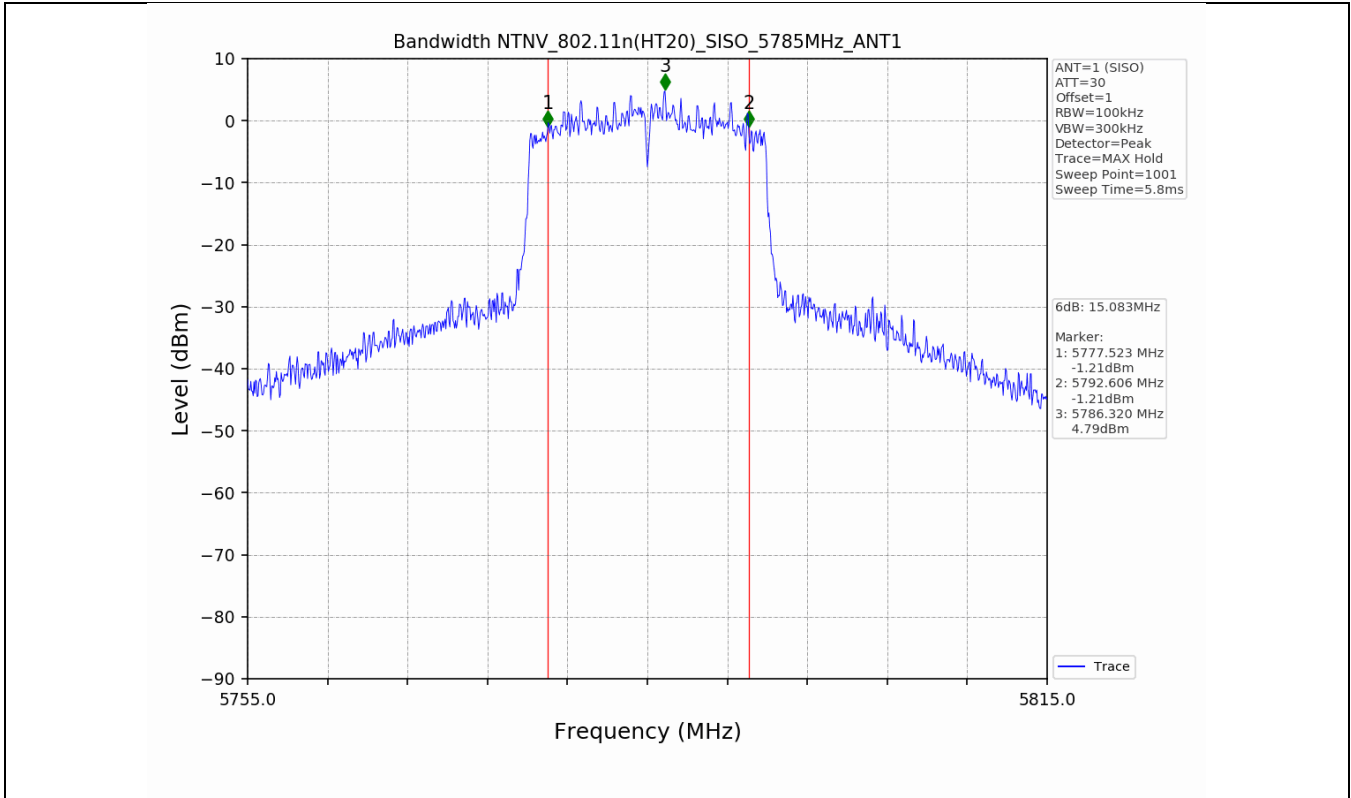
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	15.178	≥0.5	PASS
	5785	SISO	1	15.153	≥0.5	PASS
	5825	SISO	1	15.166	≥0.5	PASS
802.11n(HT20)	5745	SISO	1	16.038	≥0.5	PASS
	5785	SISO	1	15.083	≥0.5	PASS
	5825	SISO	1	16.069	≥0.5	PASS
802.11n(HT40)	5755	SISO	1	35.189	≥0.5	PASS
	5795	SISO	1	35.179	≥0.5	PASS

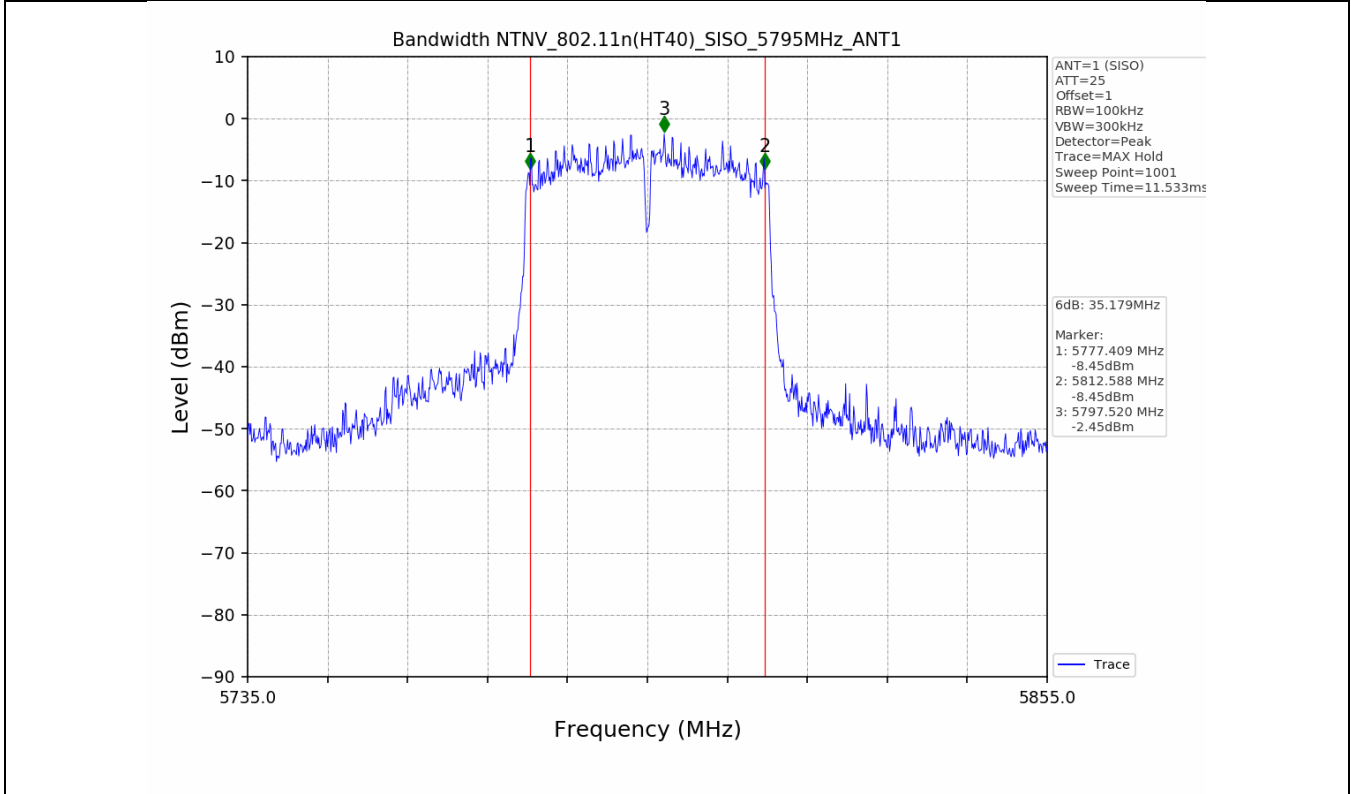
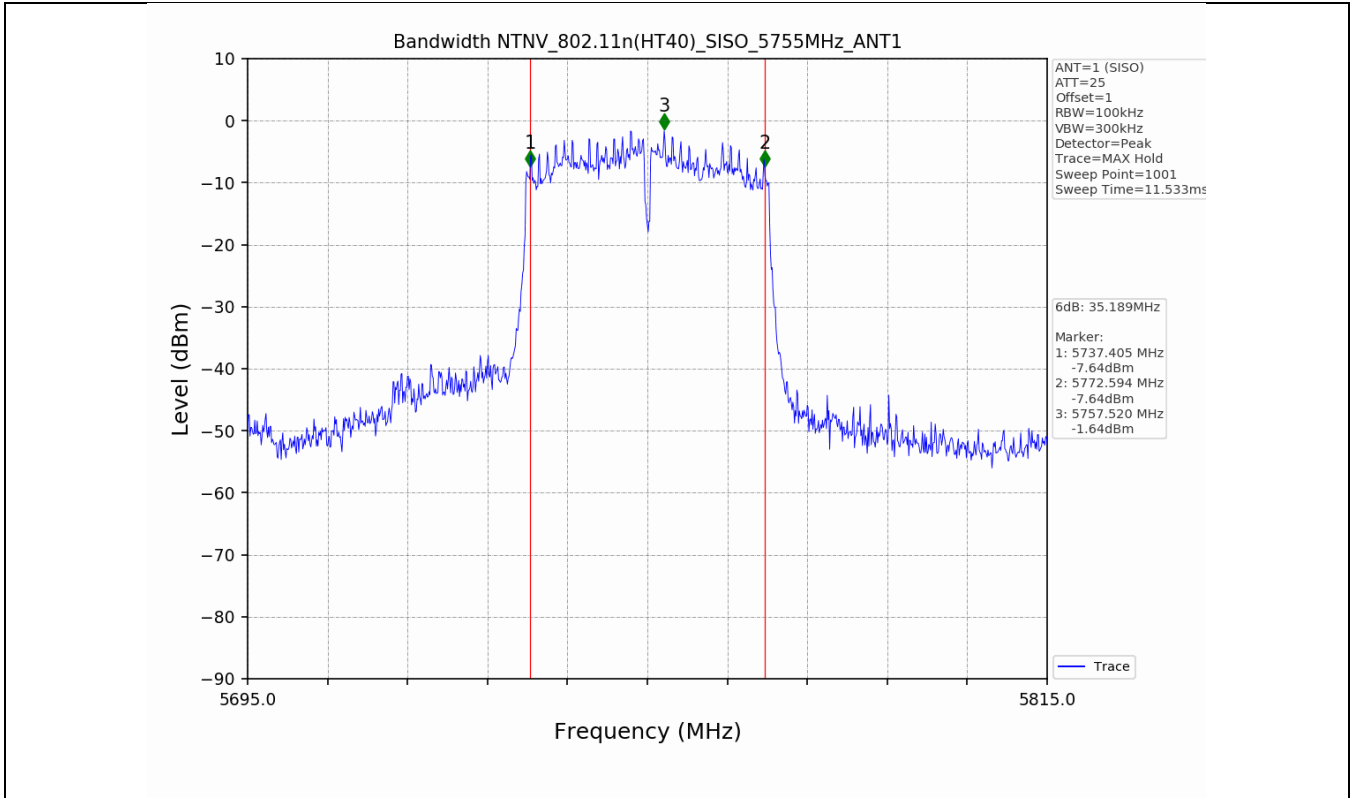
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5745	SISO	1	16.574	Only for Report Use
	5785	SISO	1	16.551	Only for Report Use
	5825	SISO	1	16.624	Only for Report Use
802.11n(HT20)	5745	SISO	1	17.582	Only for Report Use
	5785	SISO	1	17.613	Only for Report Use
	5825	SISO	1	17.624	Only for Report Use
802.11n(HT40)	5755	SISO	1	36.229	Only for Report Use
	5795	SISO	1	36.140	Only for Report Use

1.2 Test Graph - Emission Bandwidth

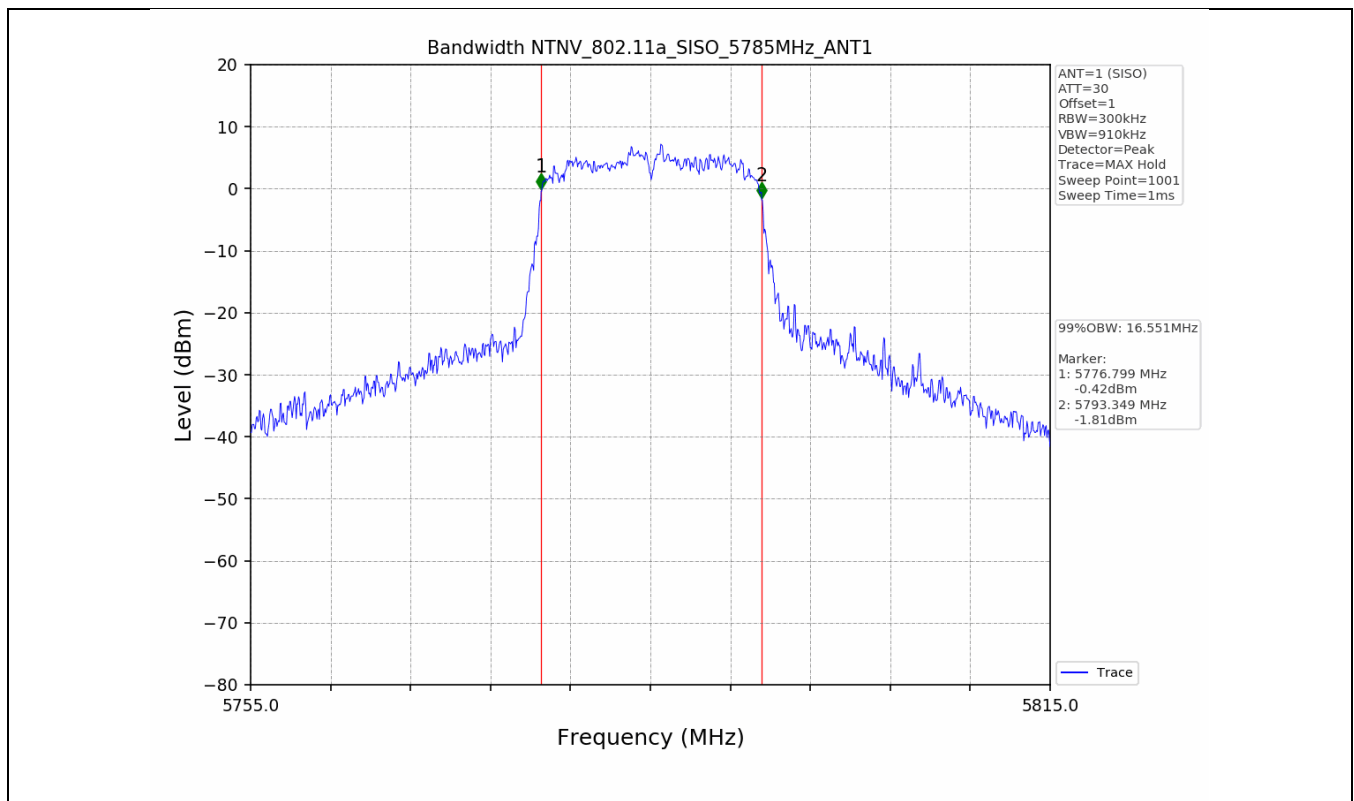
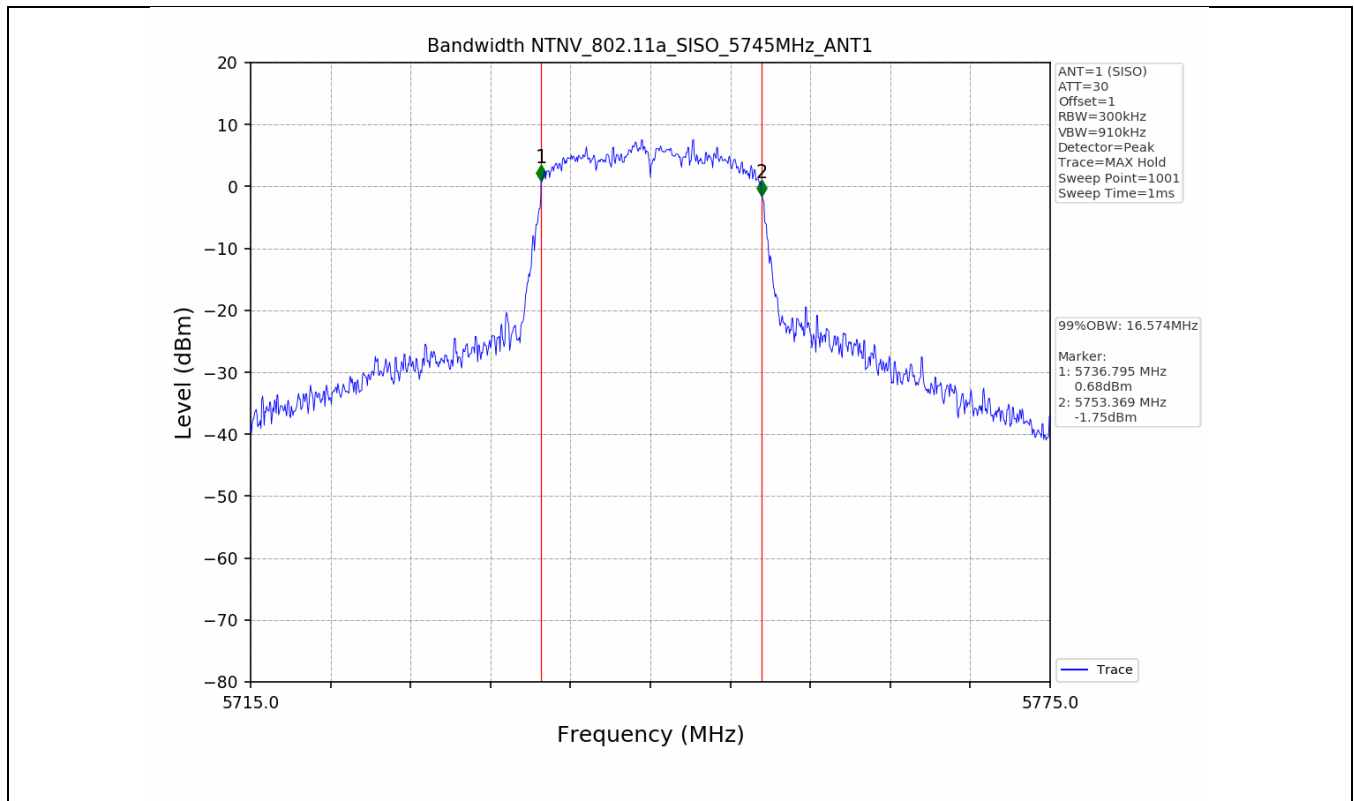


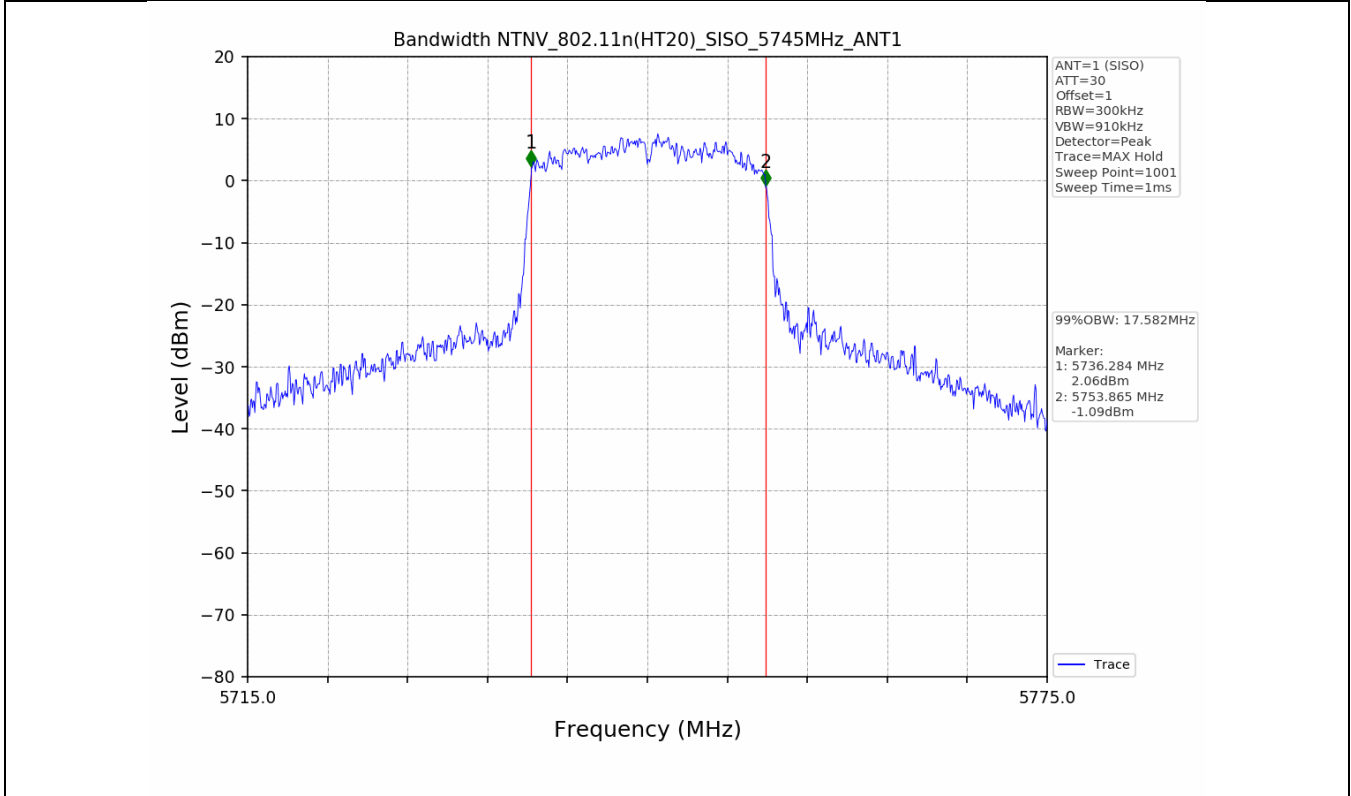
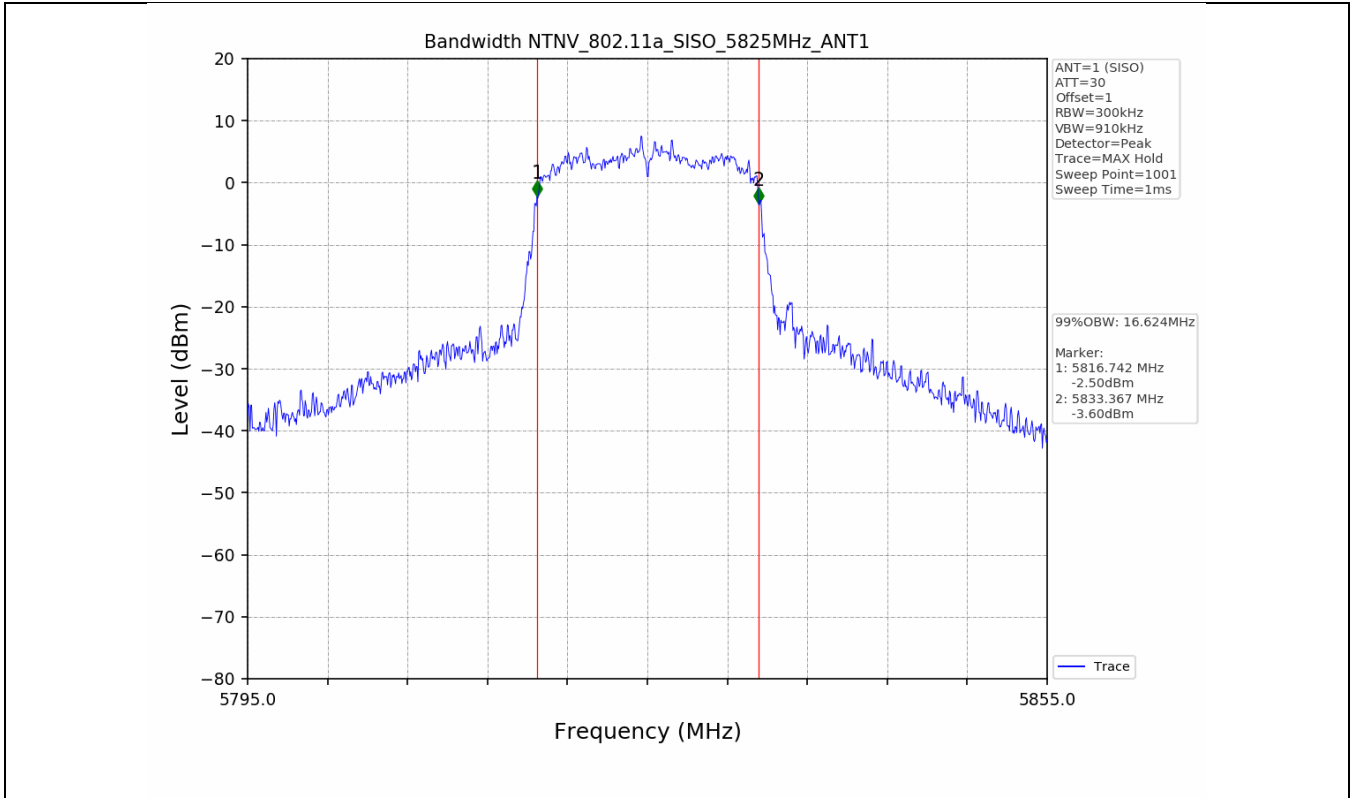


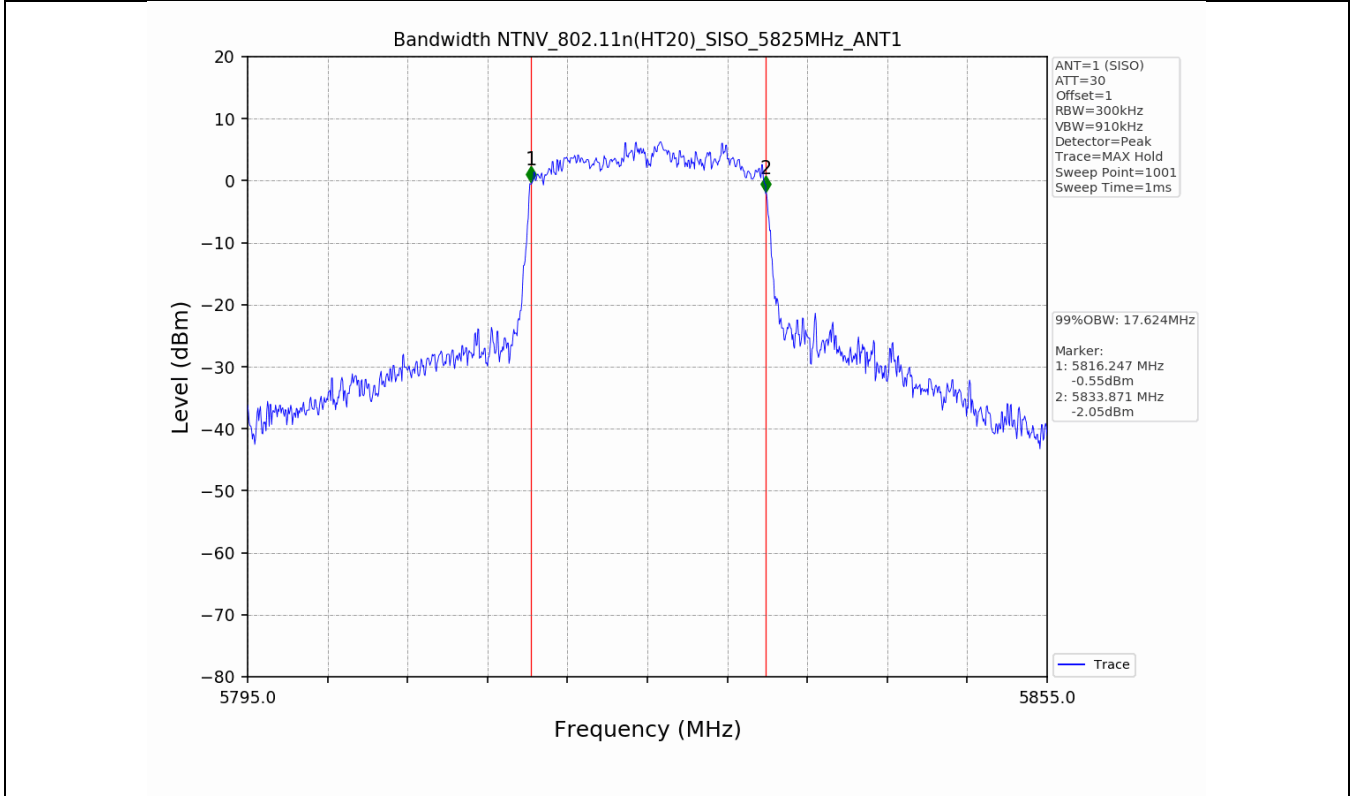
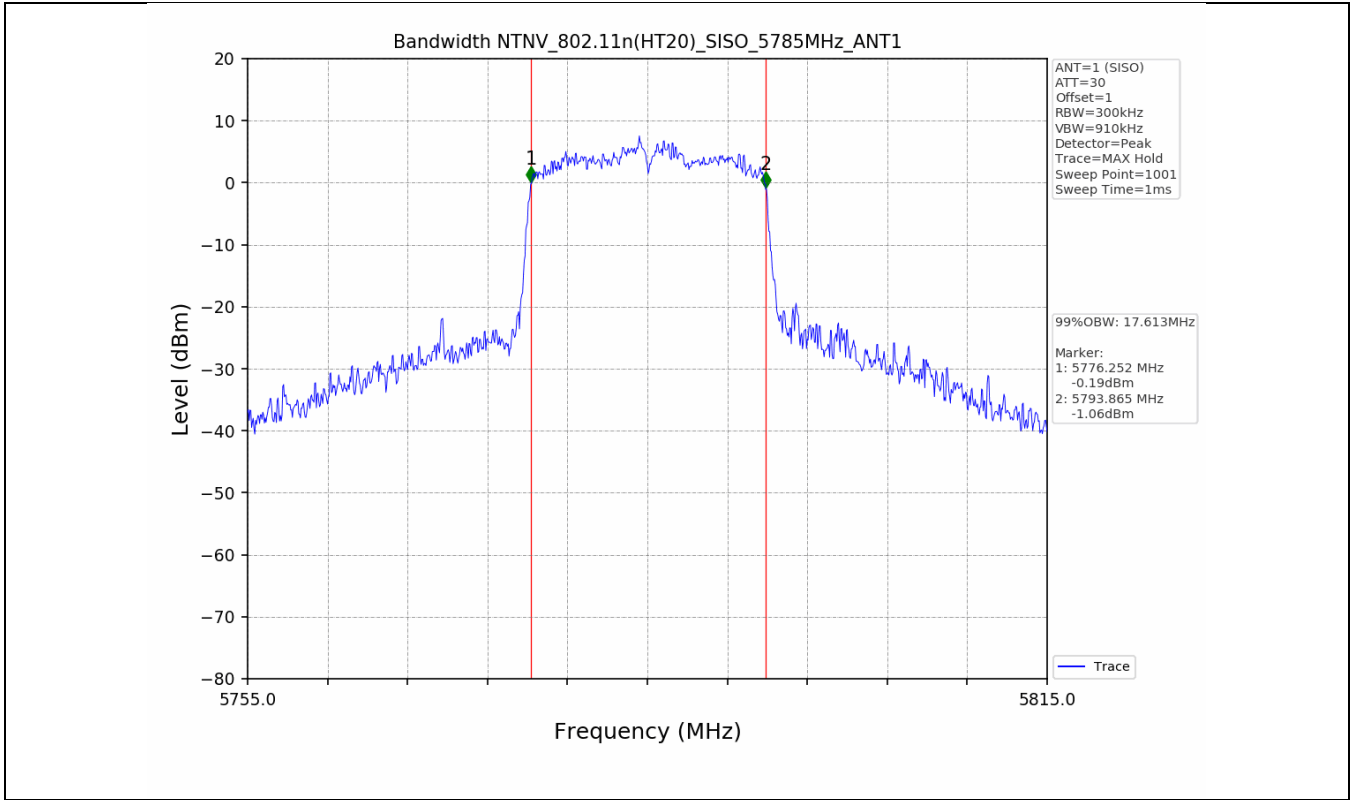




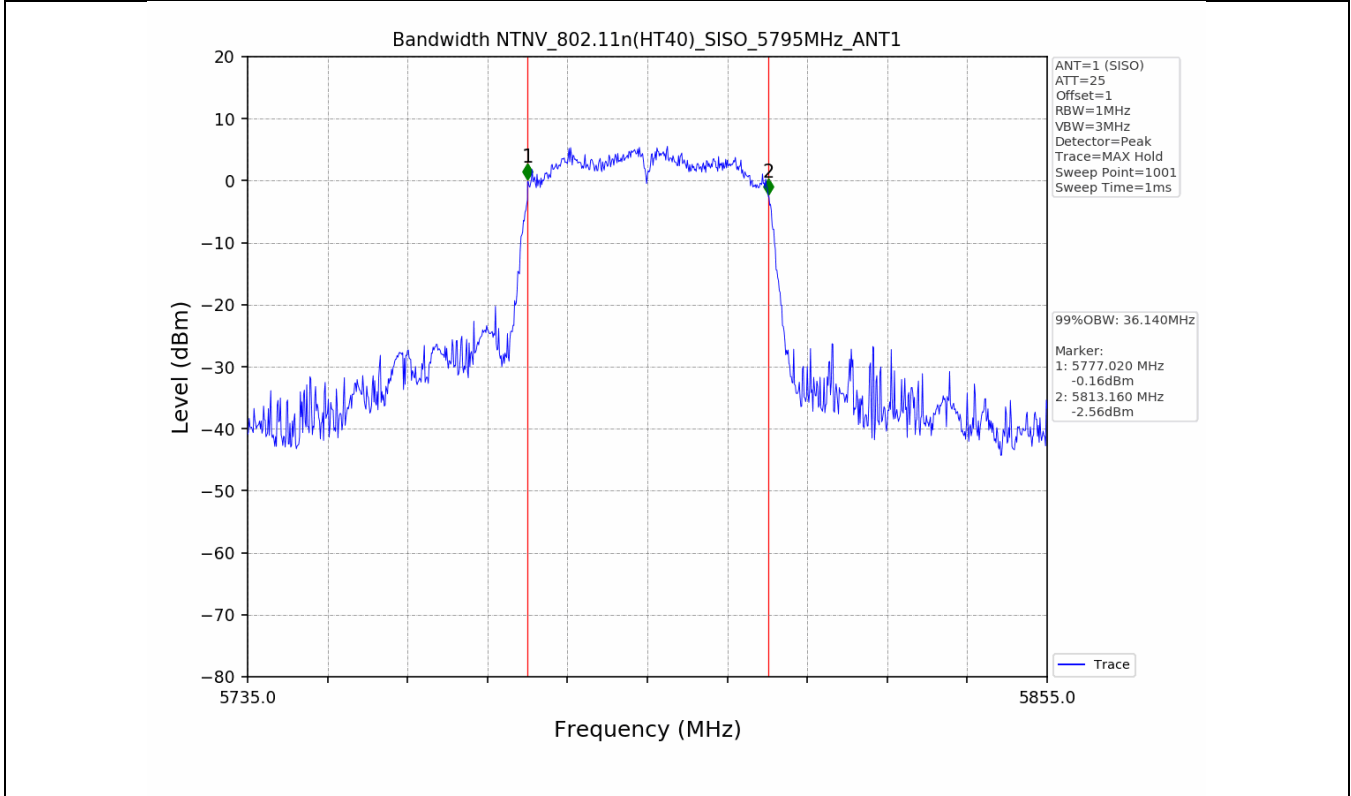
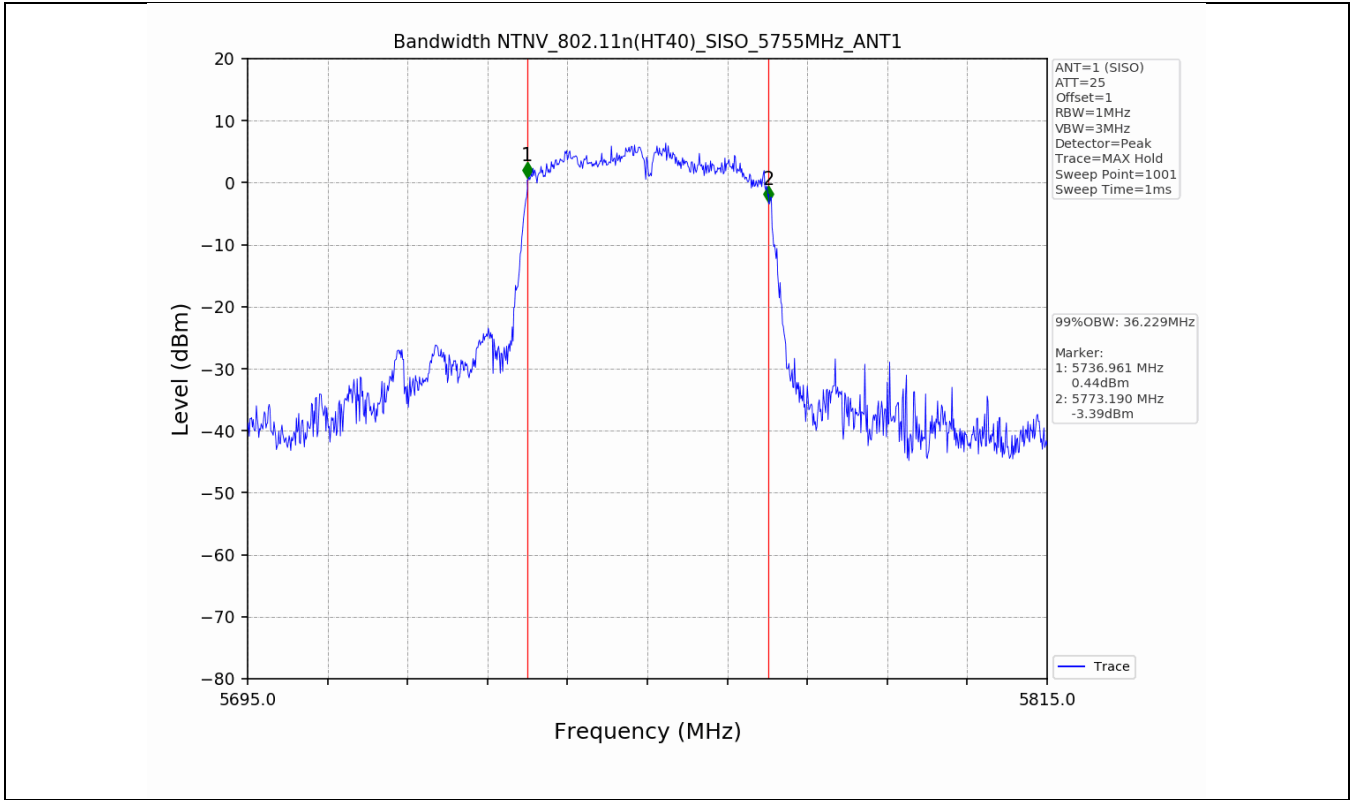
1.3 Test Graph - 99% Occupied Bandwidth









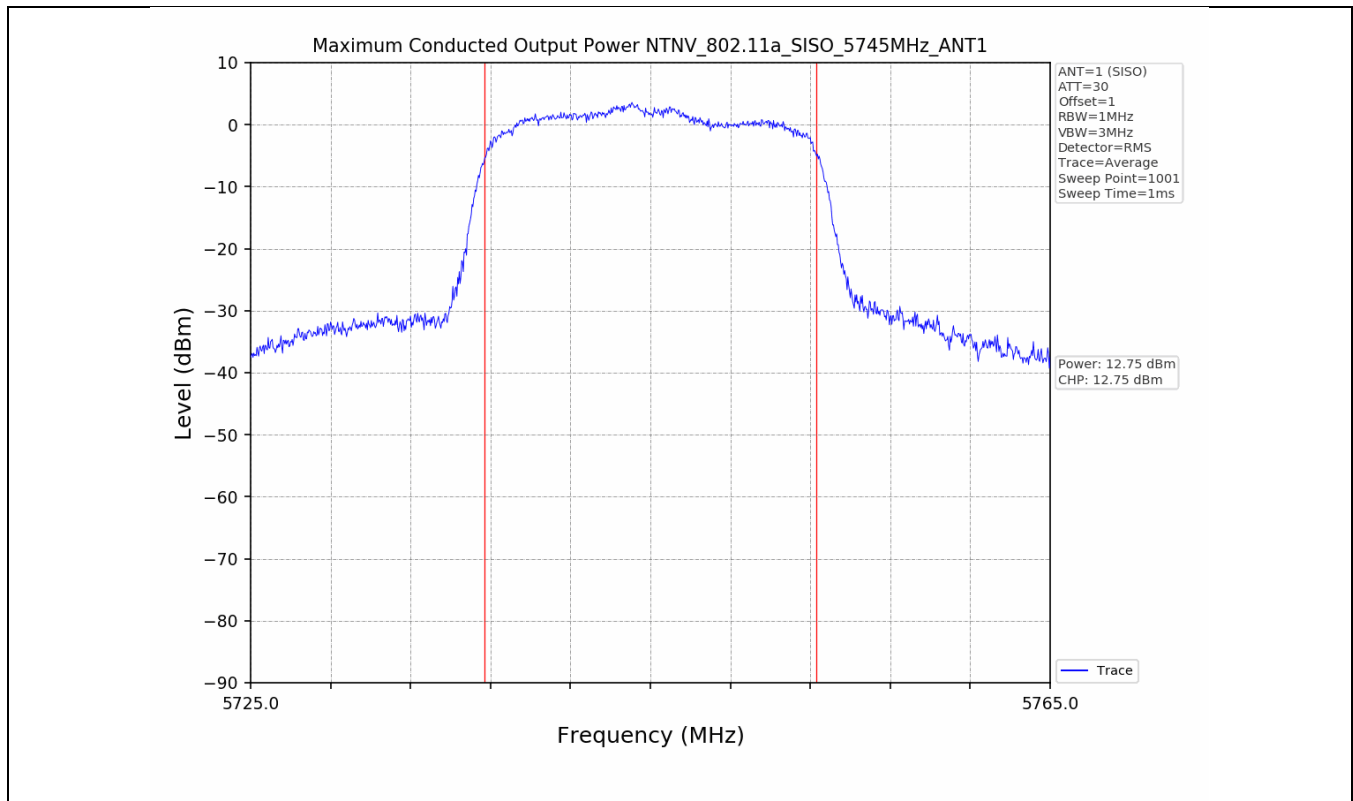


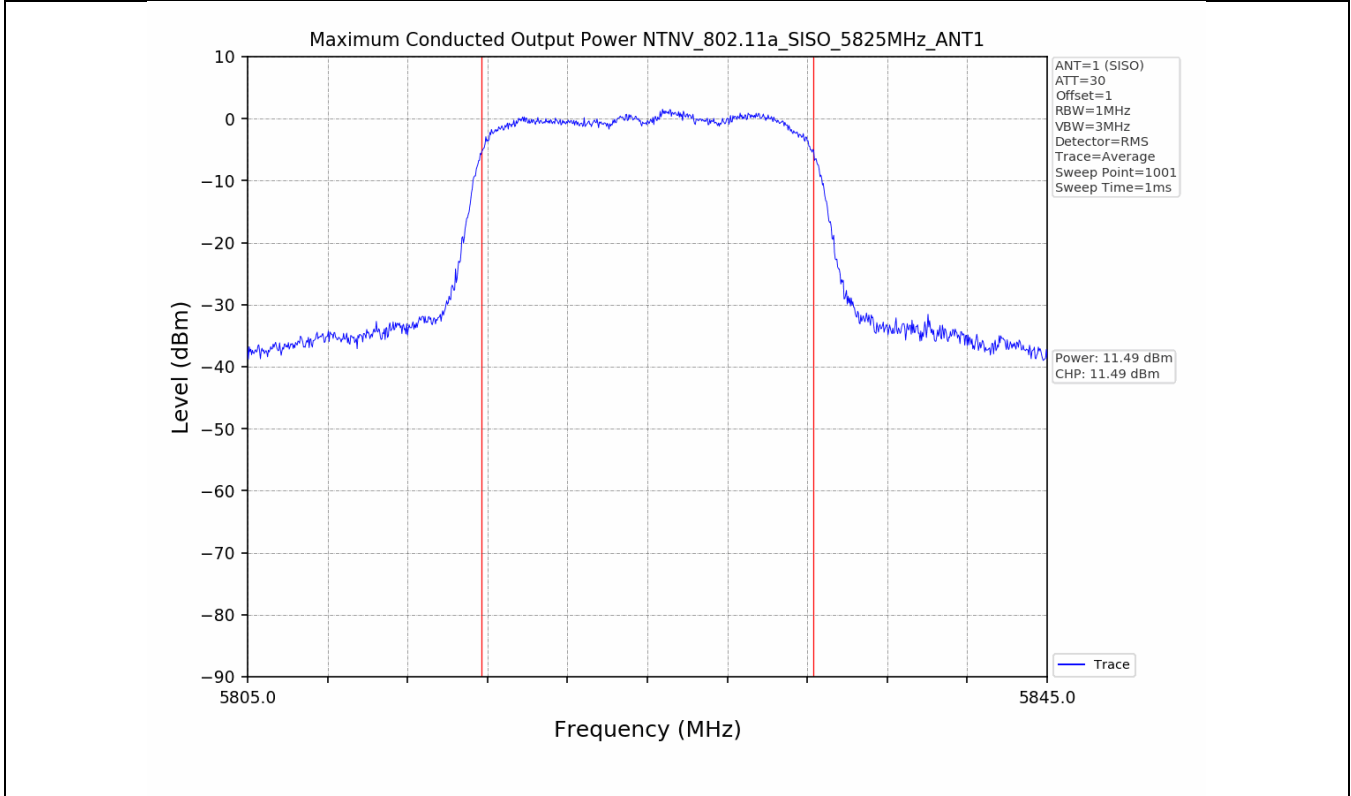
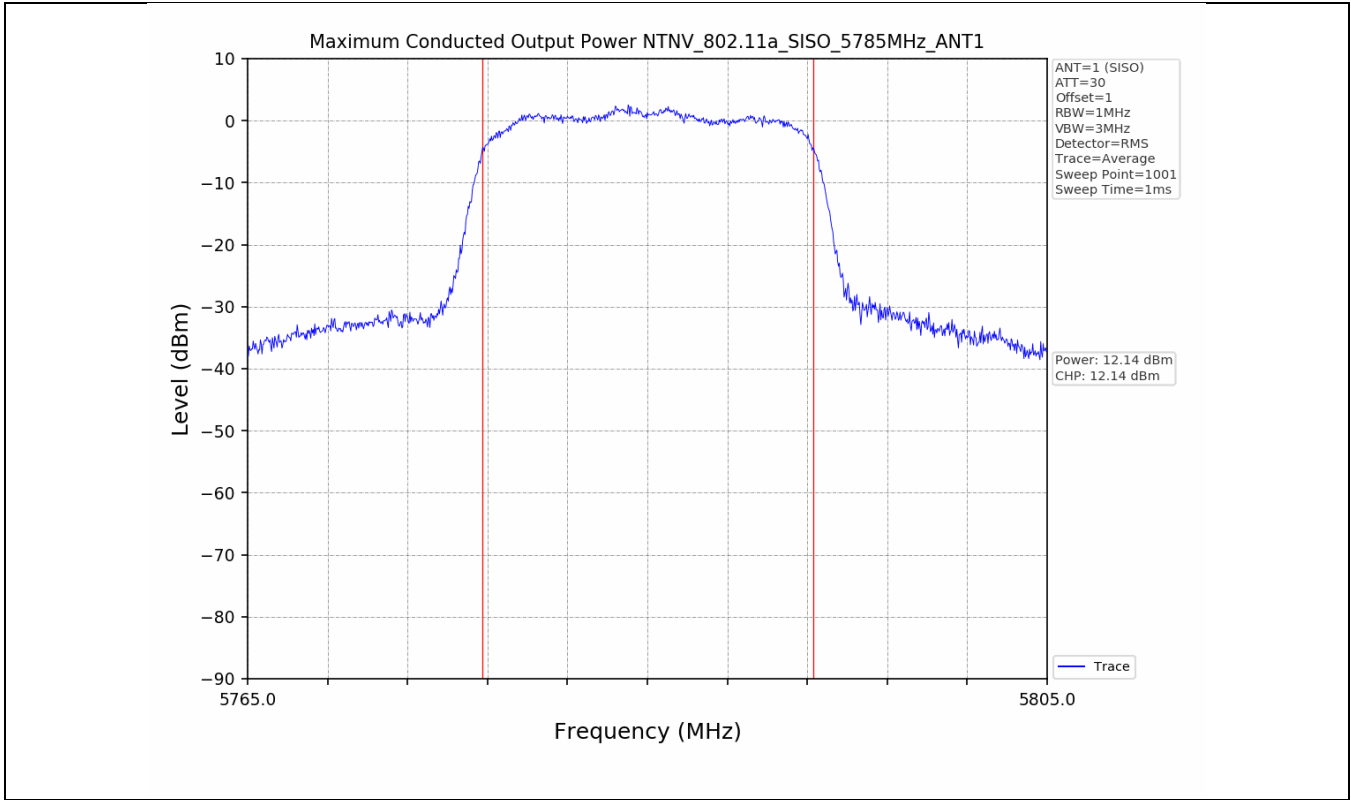
## 2. Maximum Conducted Output Power

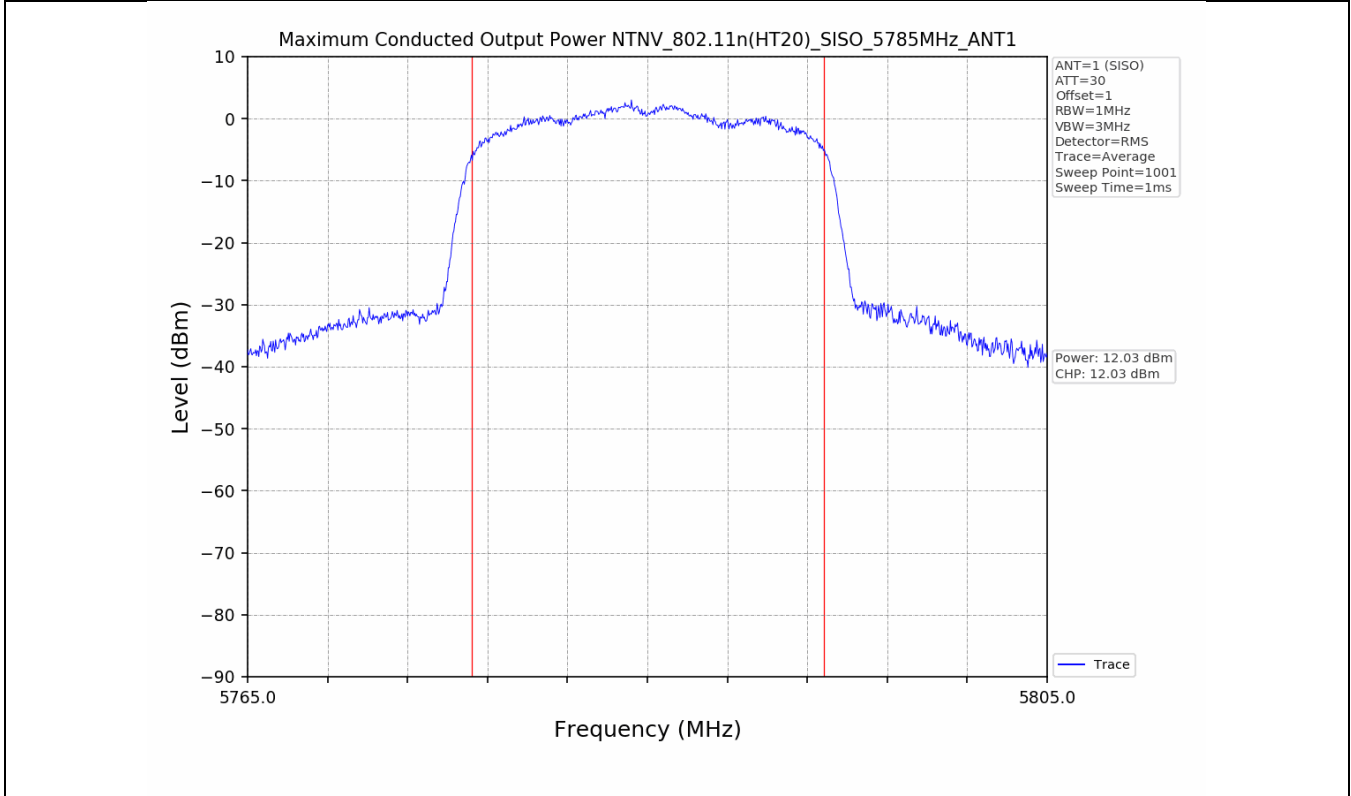
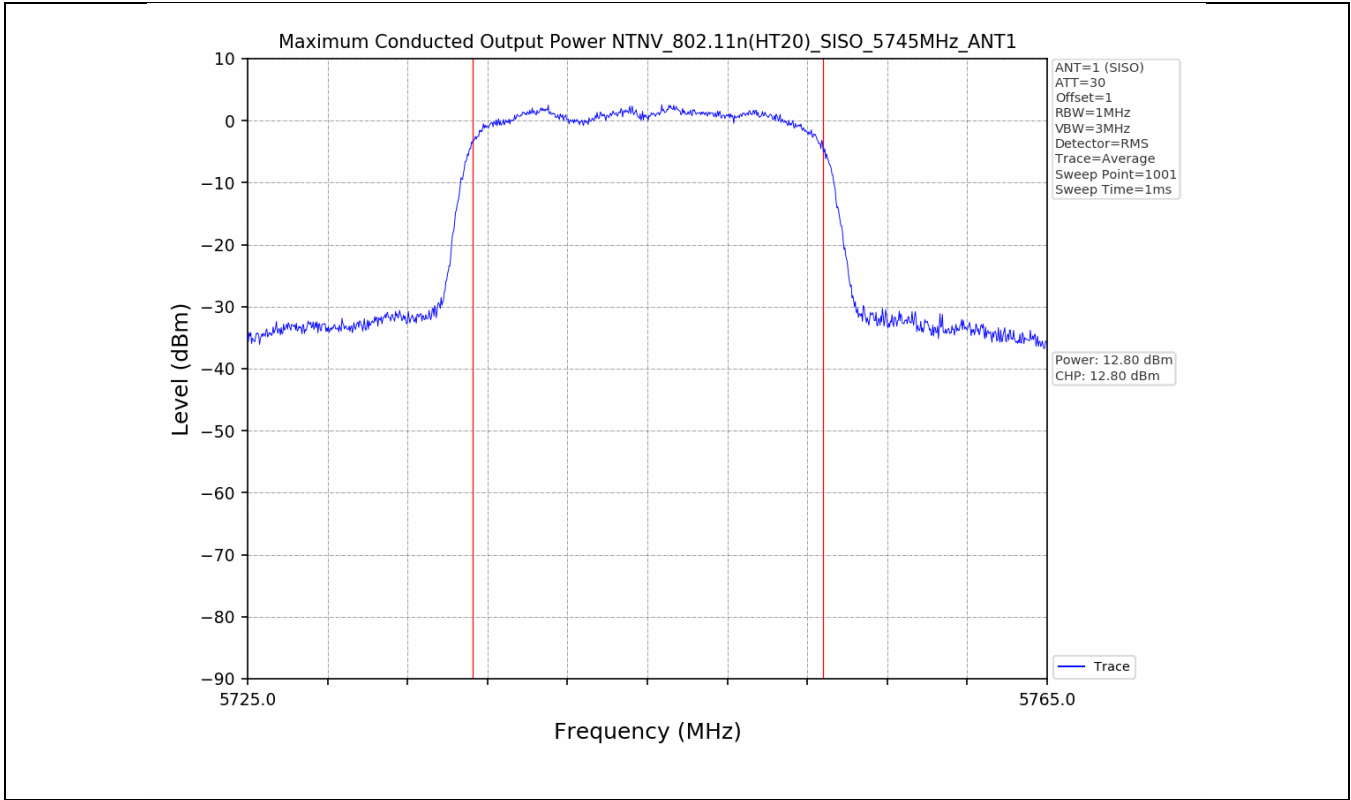
### 2.1 Test Result

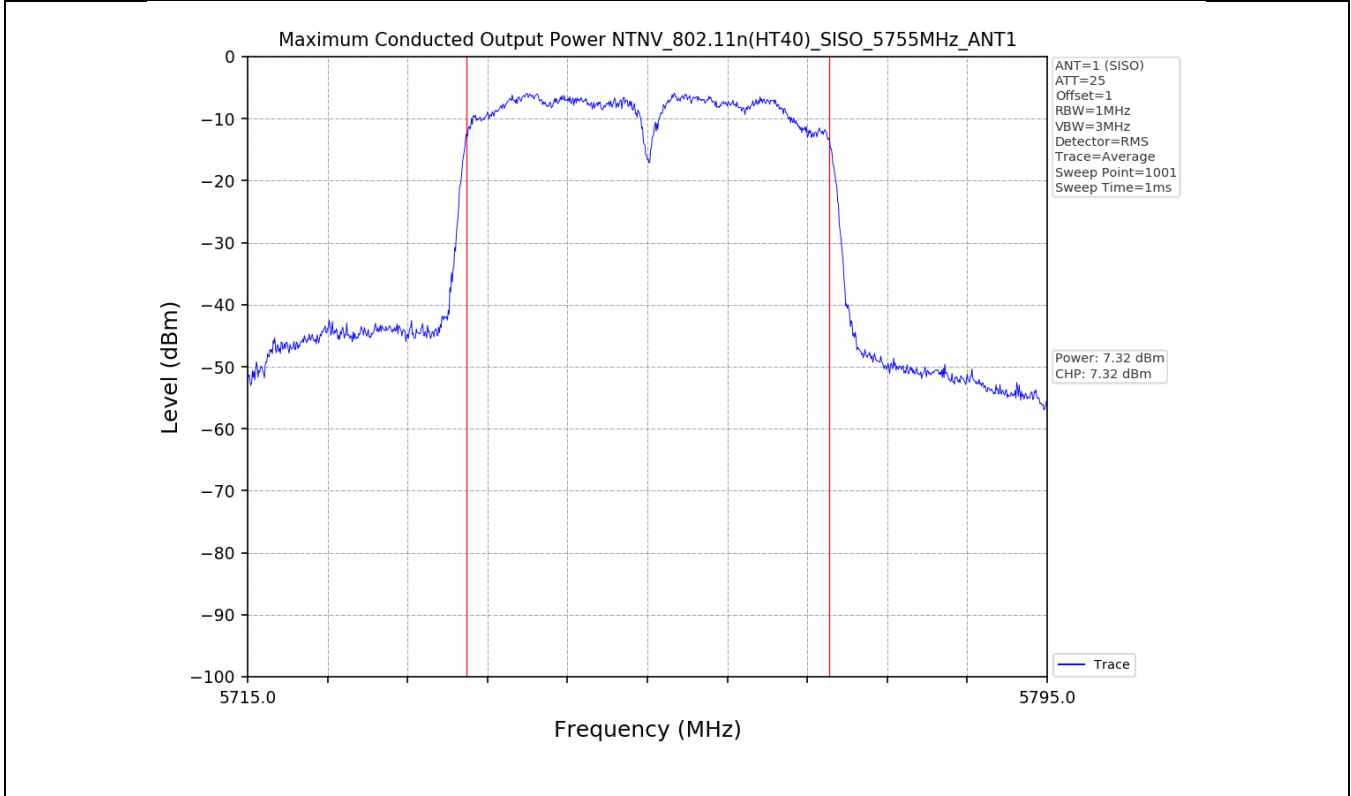
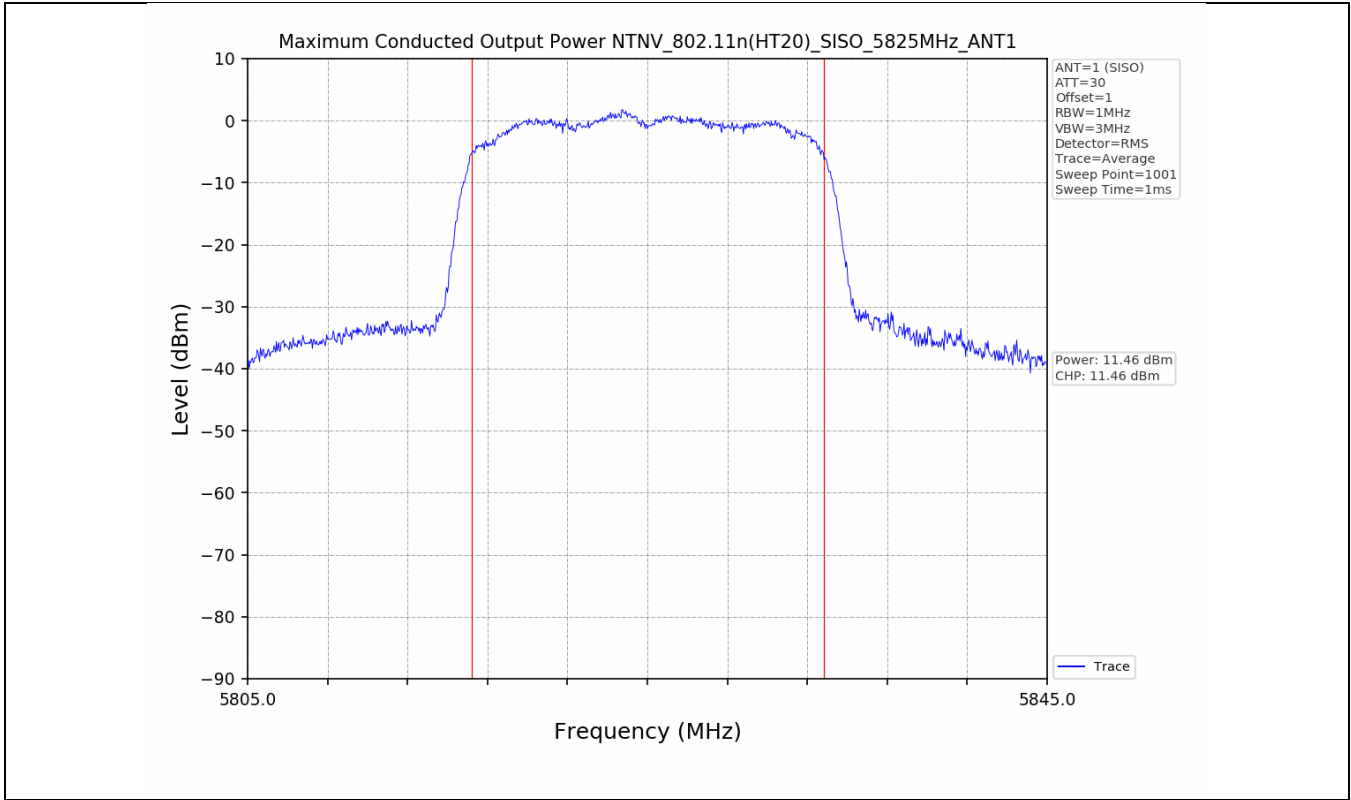
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5745	SISO	12.75	≤30.00	PASS
	5785	SISO	12.14	≤30.00	PASS
	5825	SISO	11.49	≤30.00	PASS
802.11n(HT20)	5745	SISO	12.80	≤30.00	PASS
	5785	SISO	12.03	≤30.00	PASS
	5825	SISO	11.46	≤30.00	PASS
802.11n(HT40)	5755	SISO	7.32	≤30.00	PASS
	5795	SISO	6.53	≤30.00	PASS

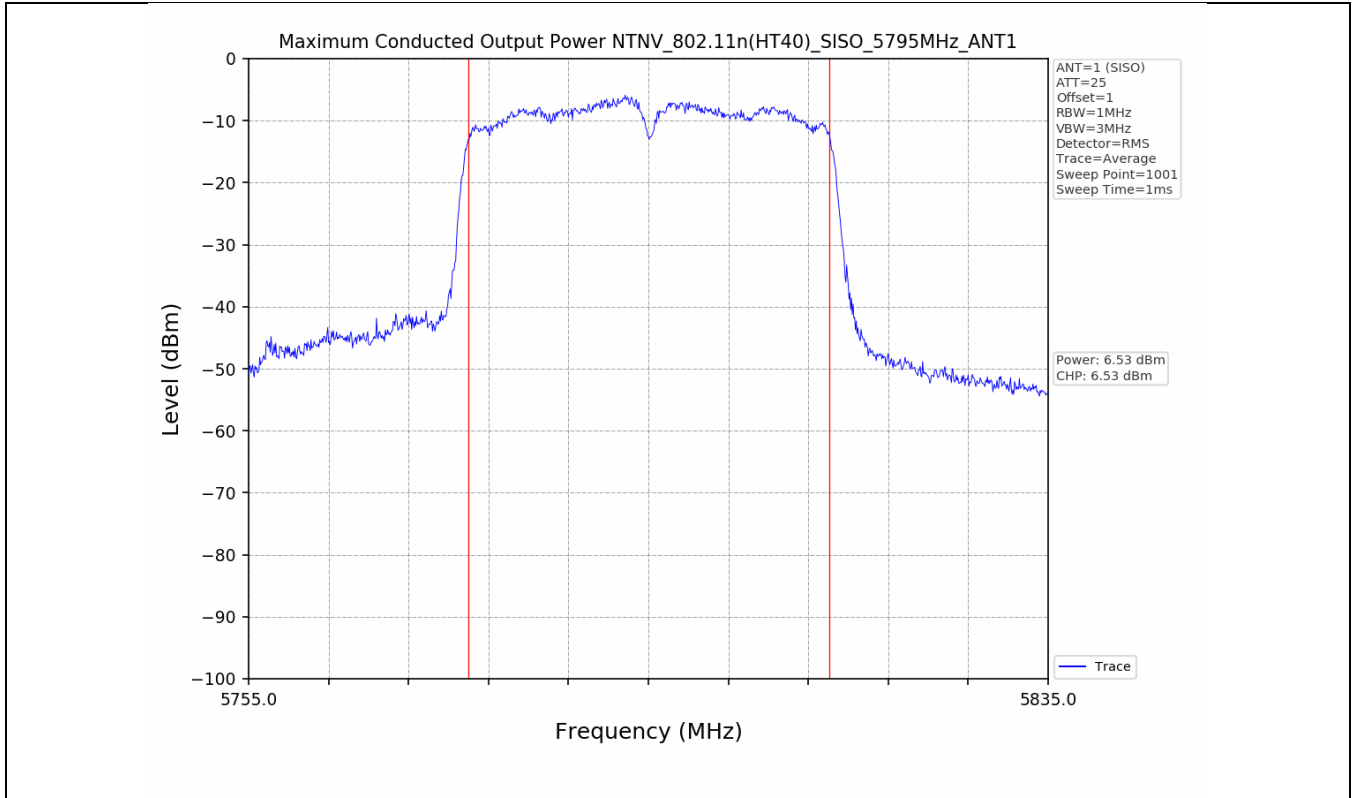
### 2.2 Test Graph









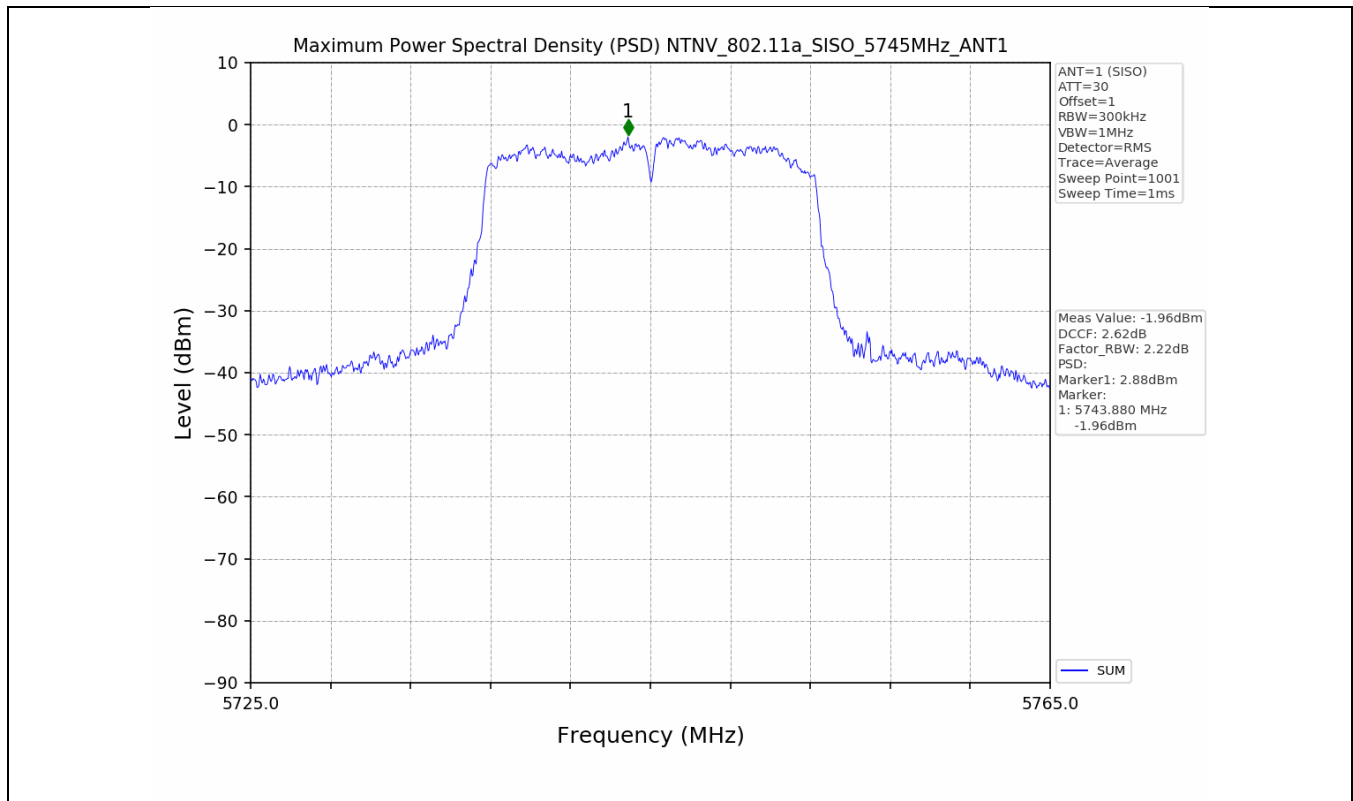


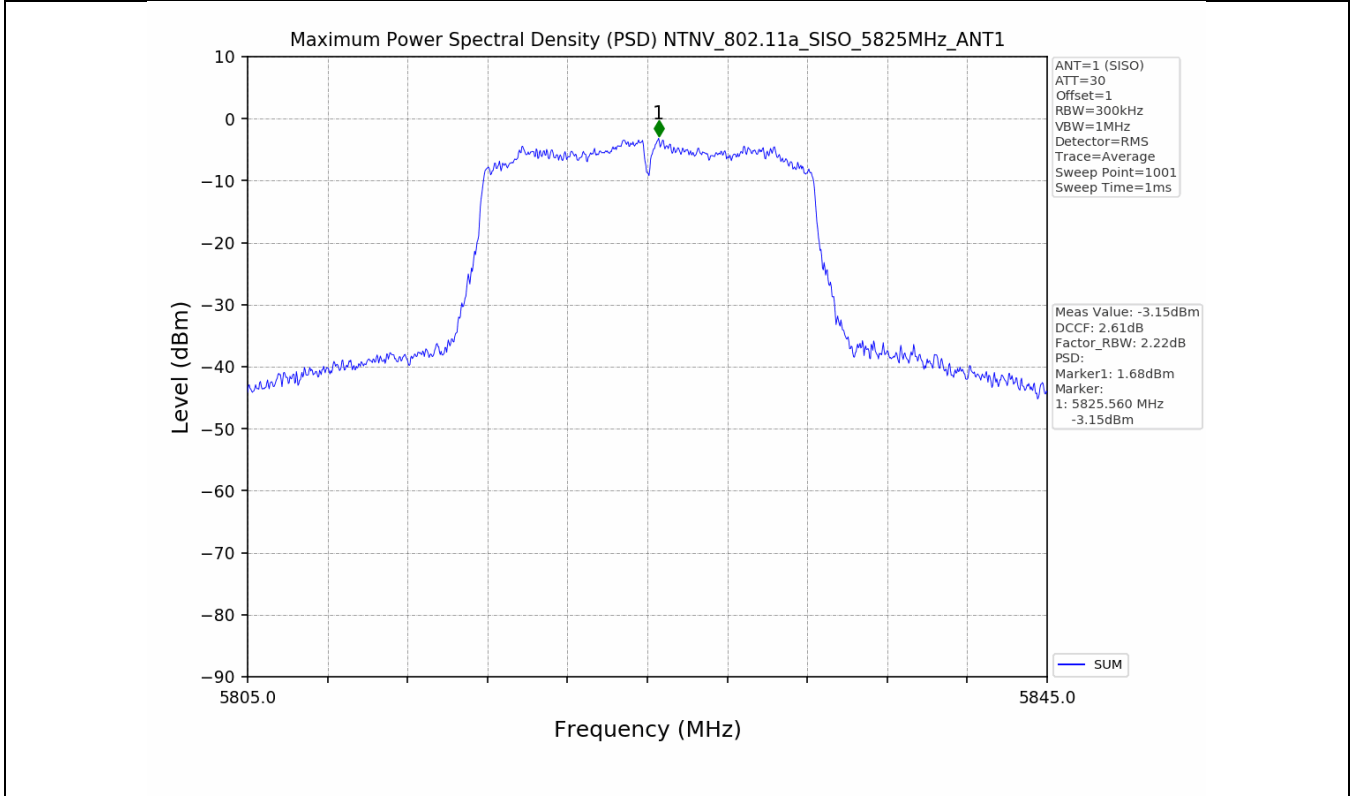
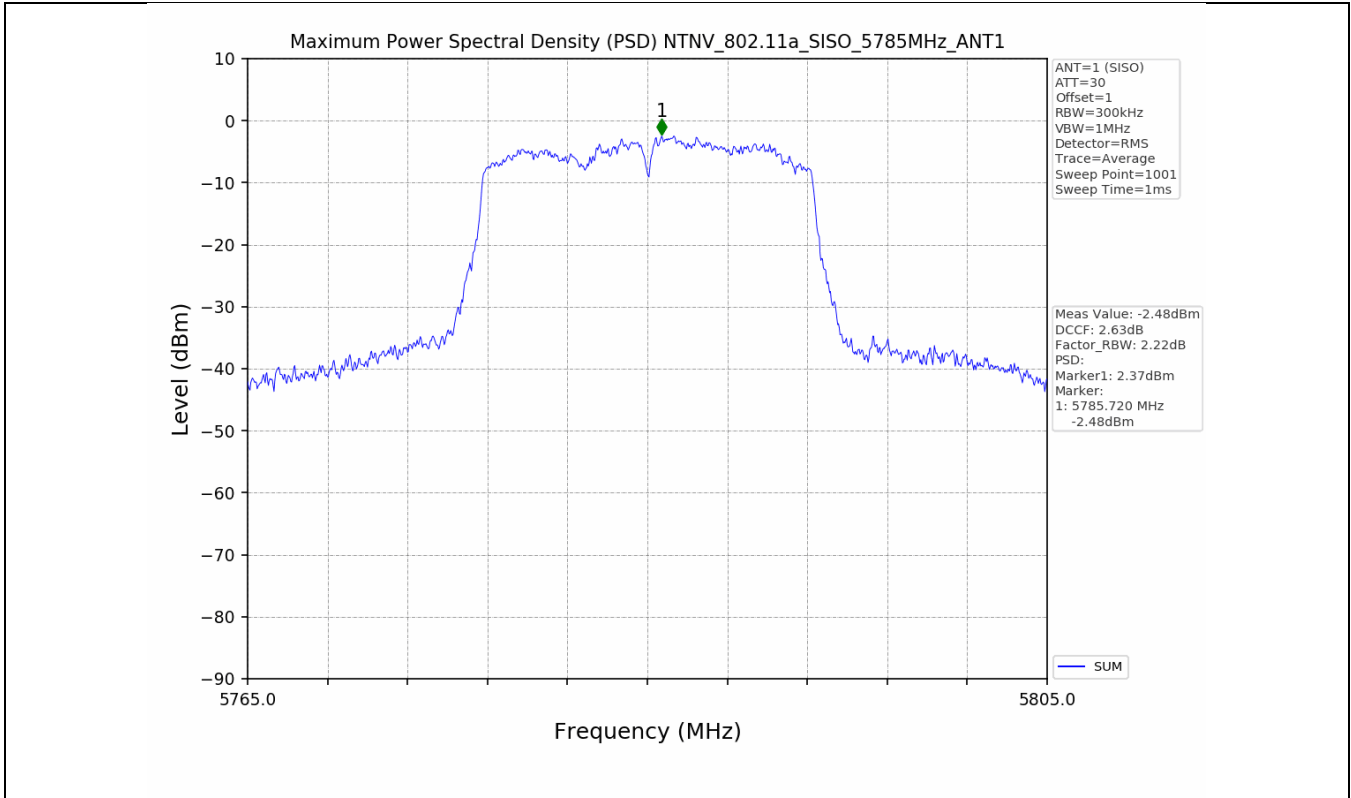
### 3. Maximum Power Spectral Density (PSD)

#### 3.1 Test Result

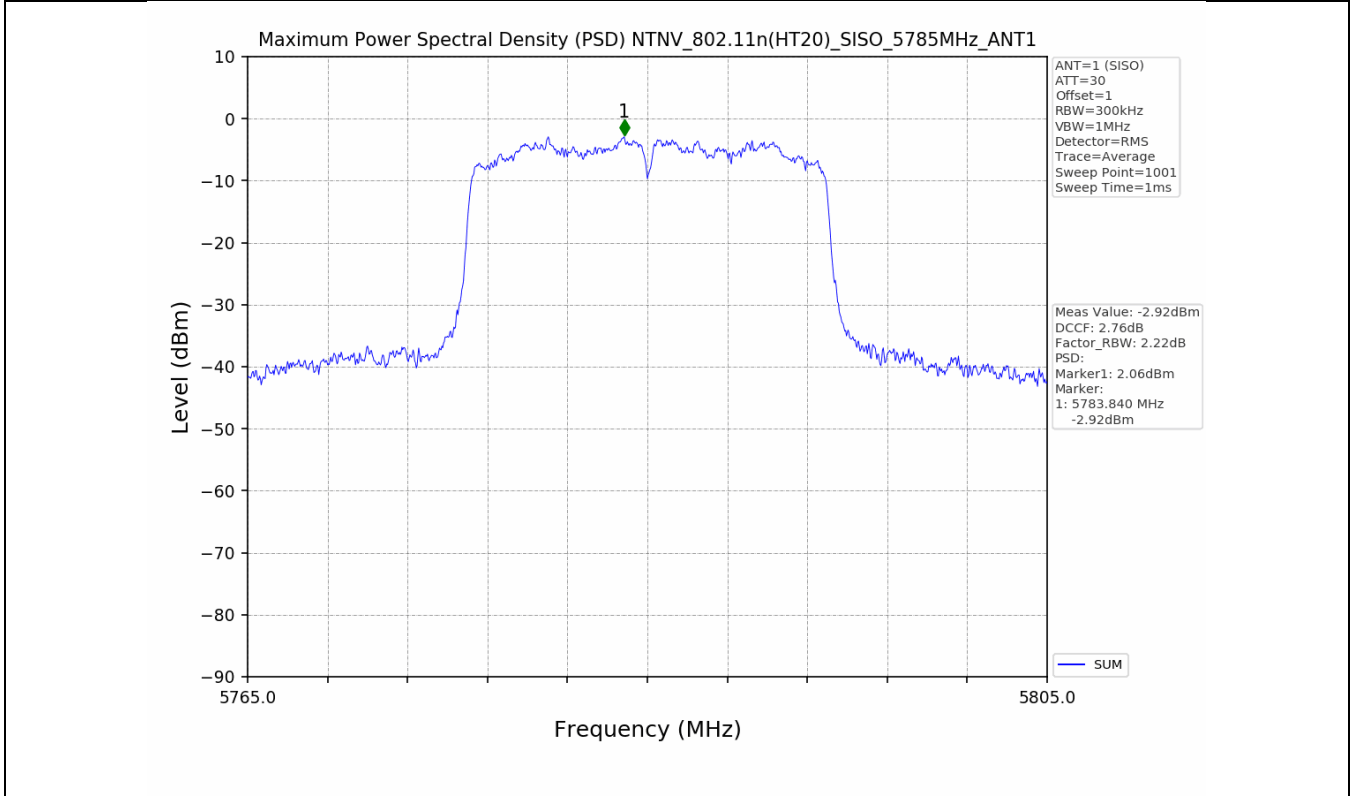
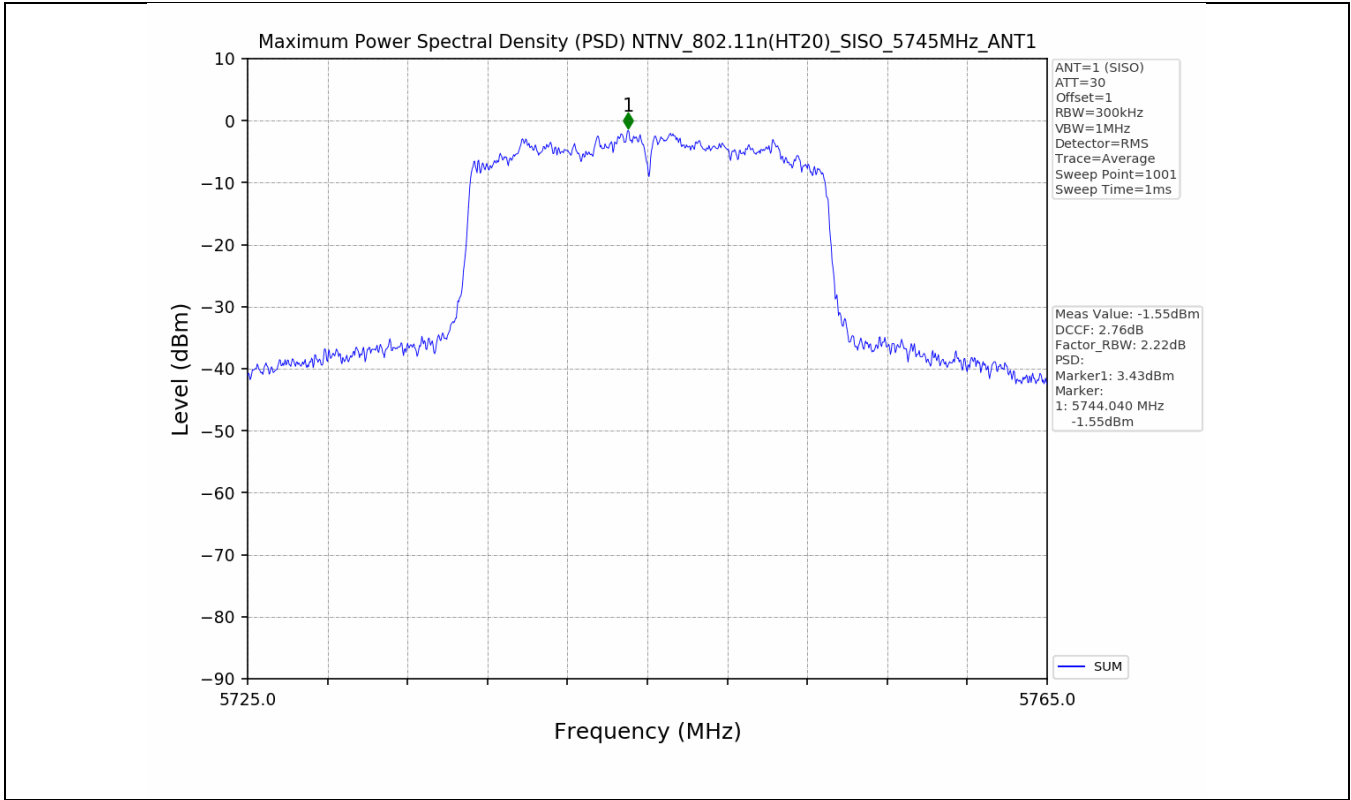
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11a	5745	SISO	2.88	≤30	PASS
	5785	SISO	2.37	≤30	PASS
	5825	SISO	1.68	≤30	PASS
802.11n(HT20)	5745	SISO	3.43	≤30	PASS
	5785	SISO	2.06	≤30	PASS
	5825	SISO	1.31	≤30	PASS
802.11n(HT40)	5755	SISO	-3.67	≤30	PASS
	5795	SISO	-3.30	≤30	PASS

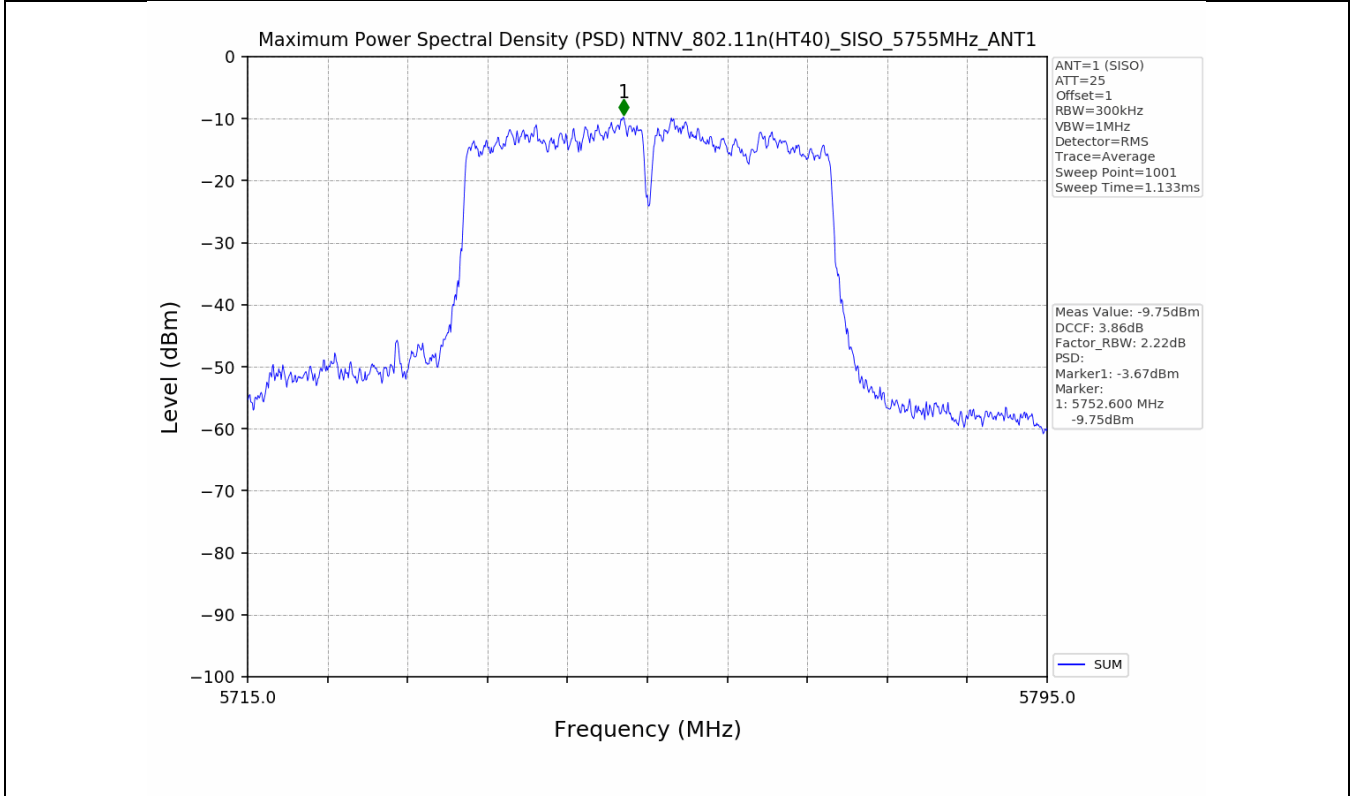
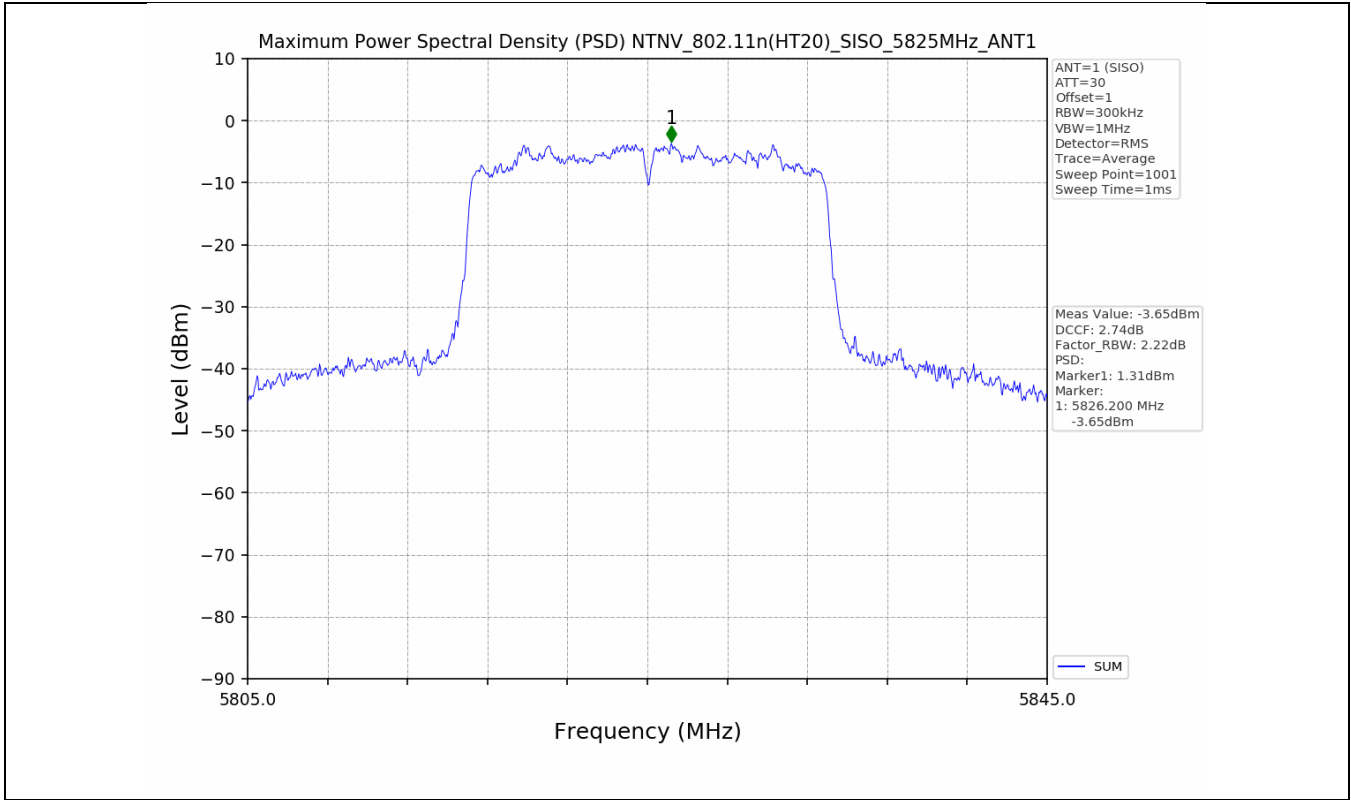
#### 3.2 Test Graph

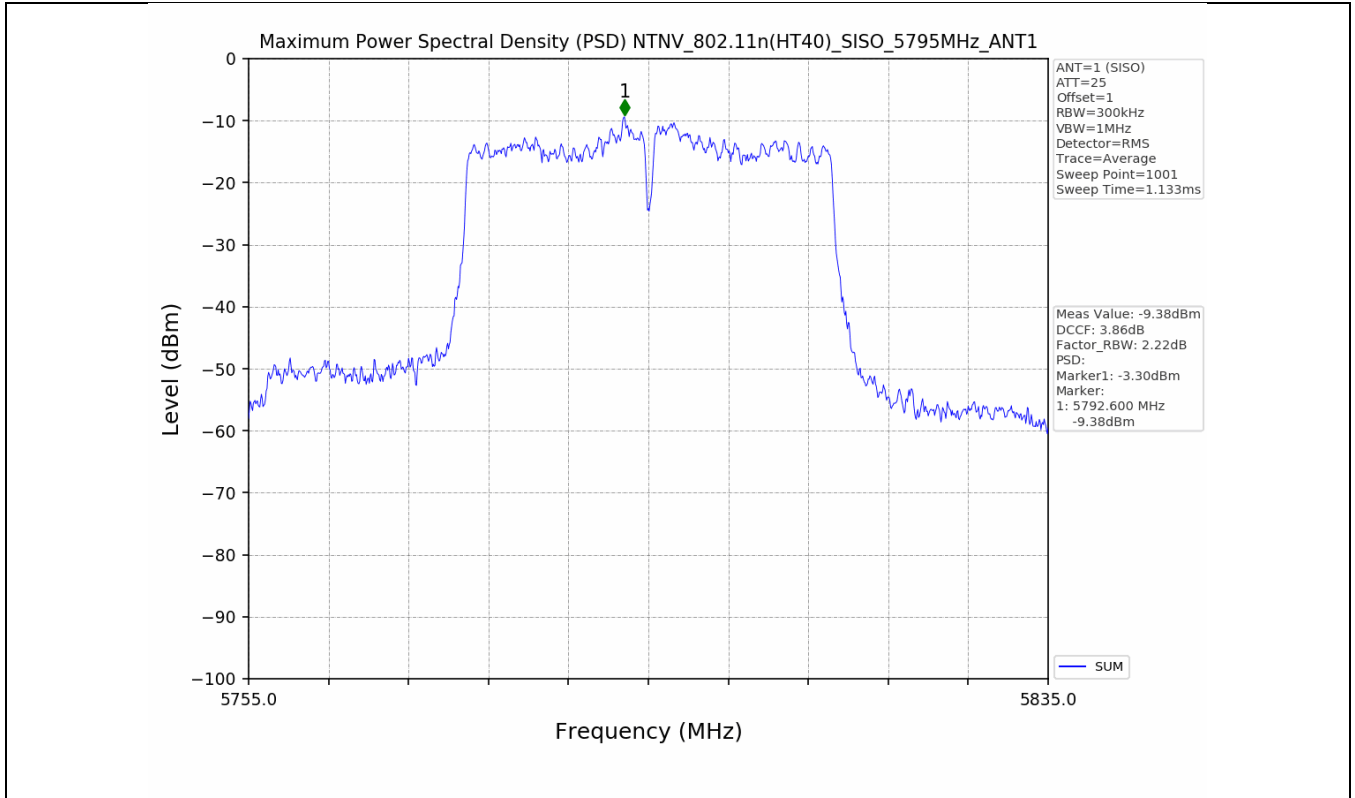












## 4. Frequency Stability

## 4.1 Test Result

Reference Frequency: 802.11a channel=149 frequency=5745MHz					
Voltage ( V )	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
5.0	-30	69.8	13.42	Within the band of operation	Pass
	-20	61.0	11.75		
	-10	76.6	14.68		
	0	83.2	16.02		
	10	72.3	13.85		
	20	71.1	13.74		
	30	81.6	15.72		
	40	99.5	19.18		
	50	65.6	12.61		
5.5	25	68.0	13.10		
4.5	25	93.7	16.02		