

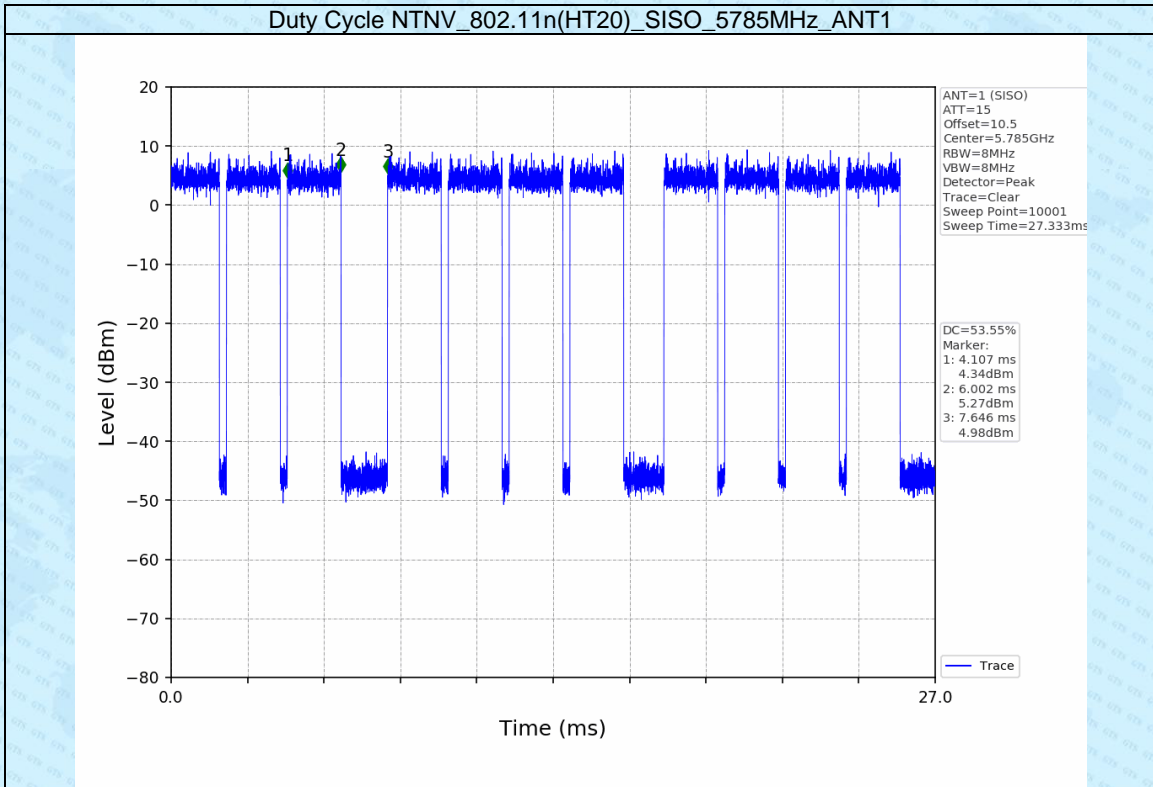
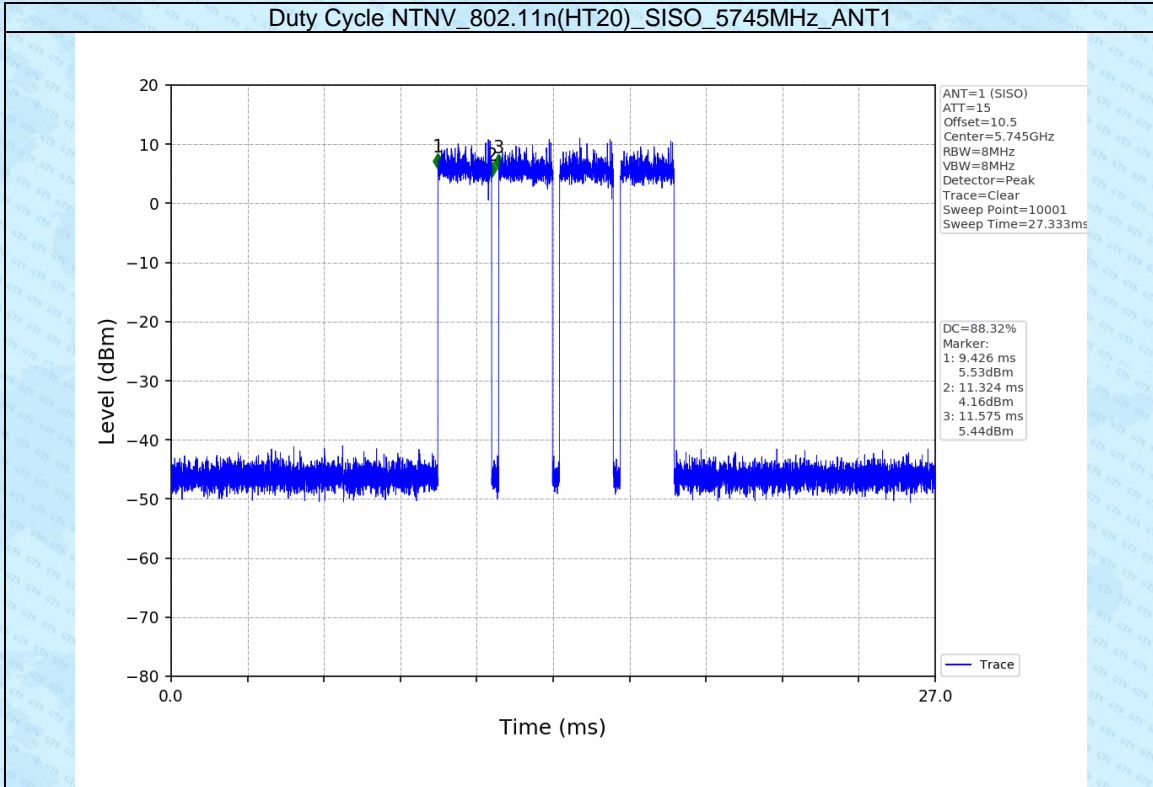
## Appendix for 15.407

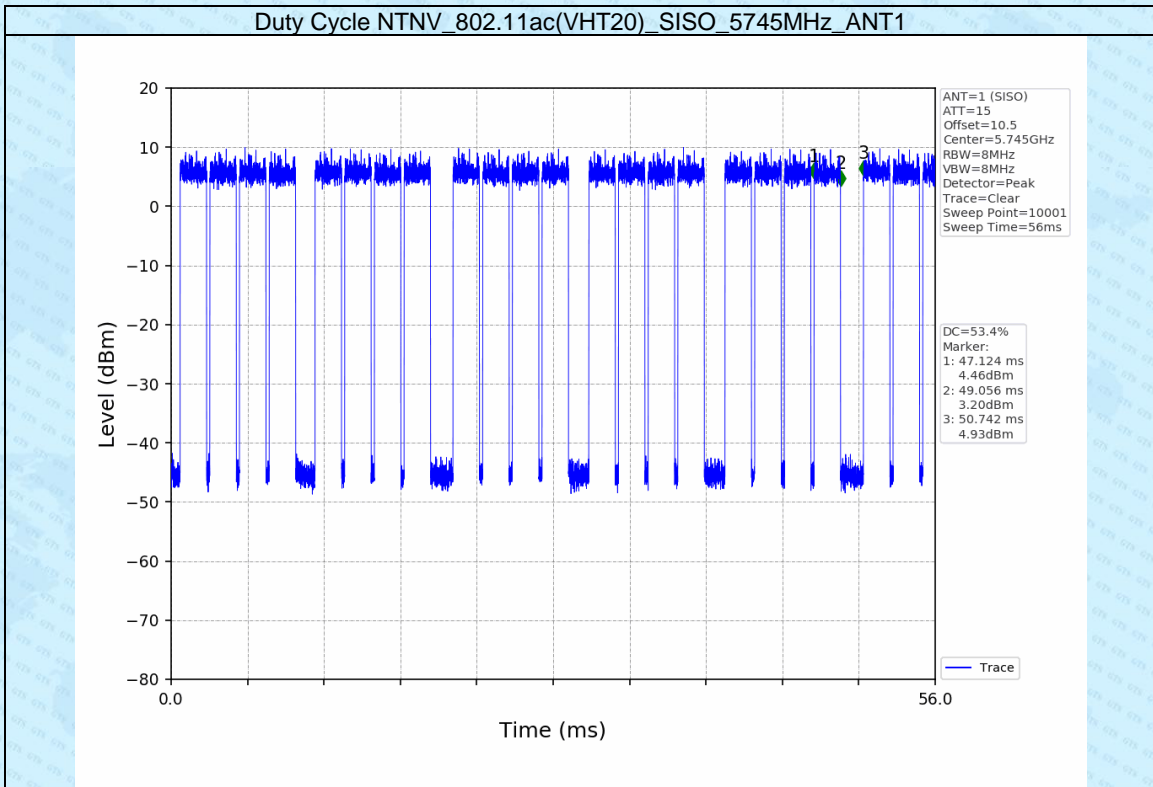
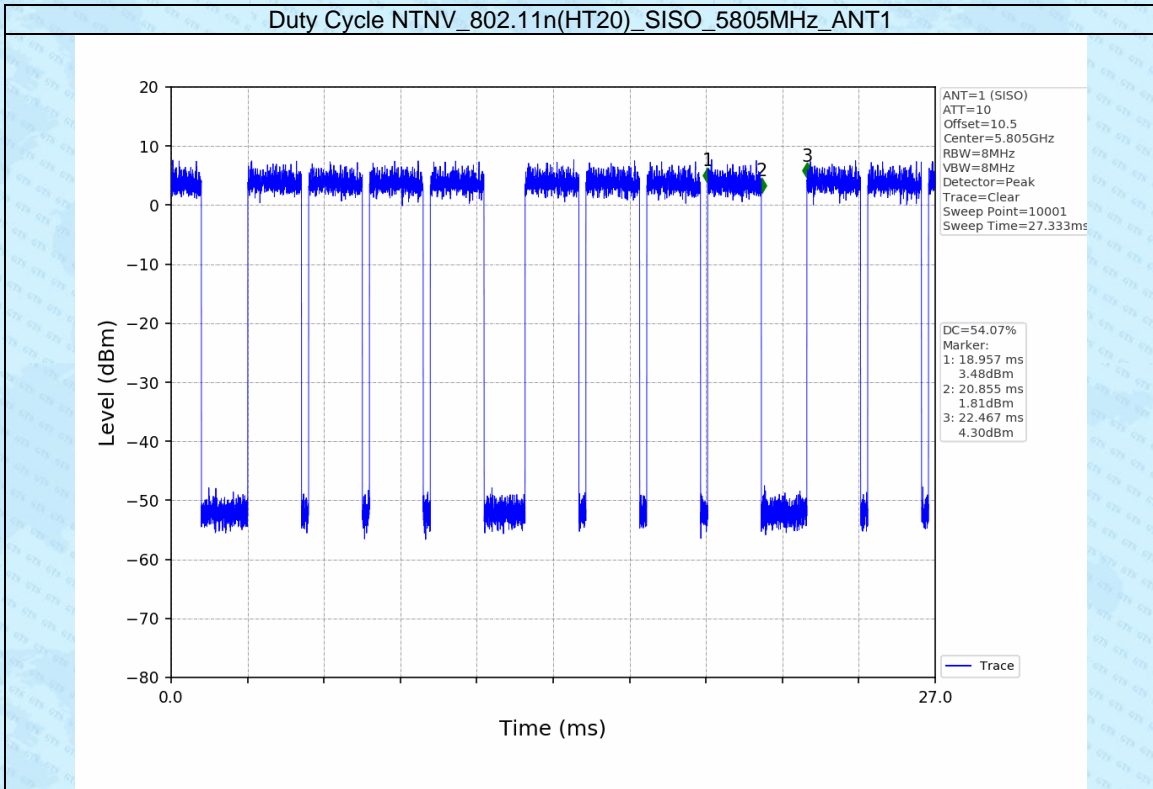
### 1. Duty Cycle

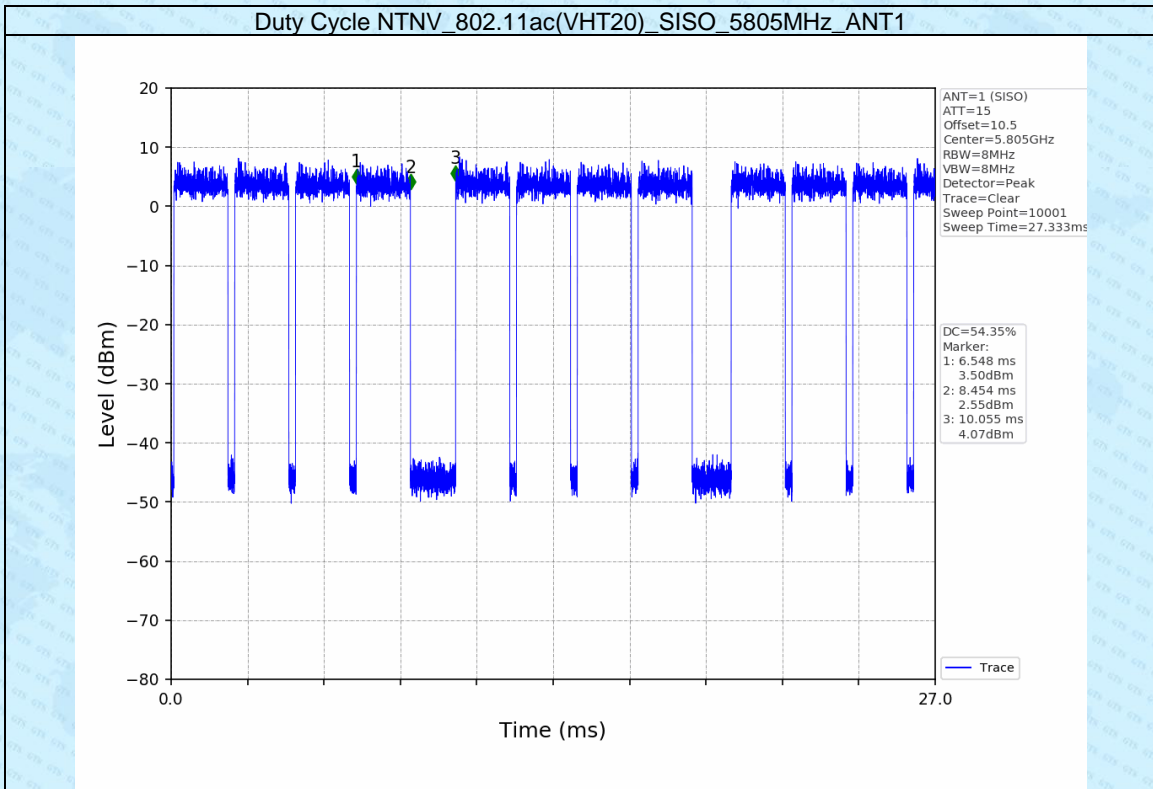
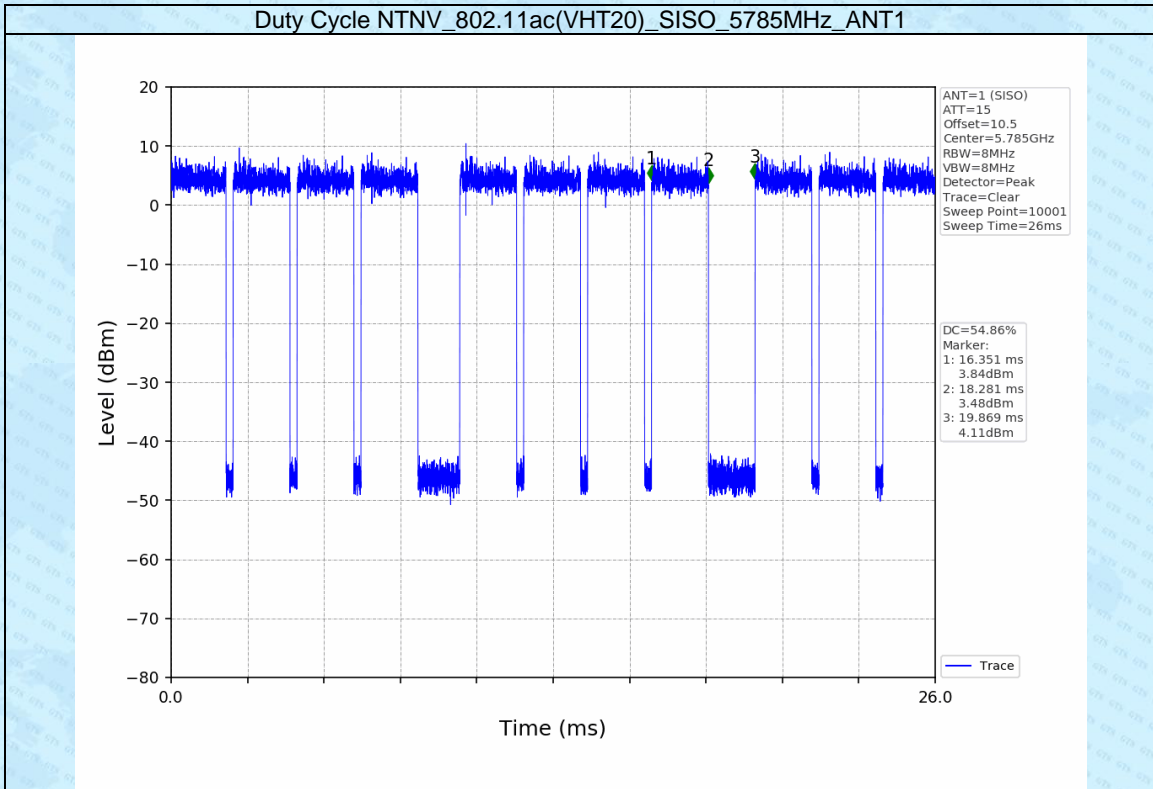
#### 1.1 Test Result

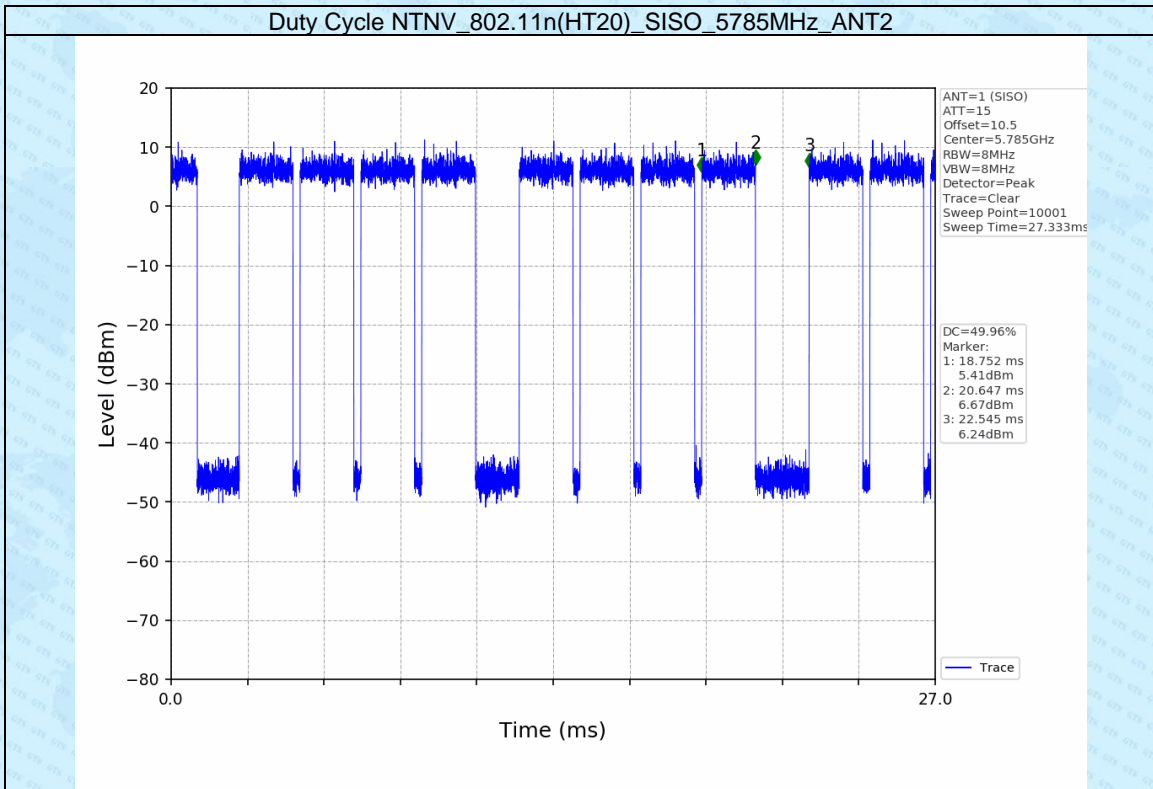
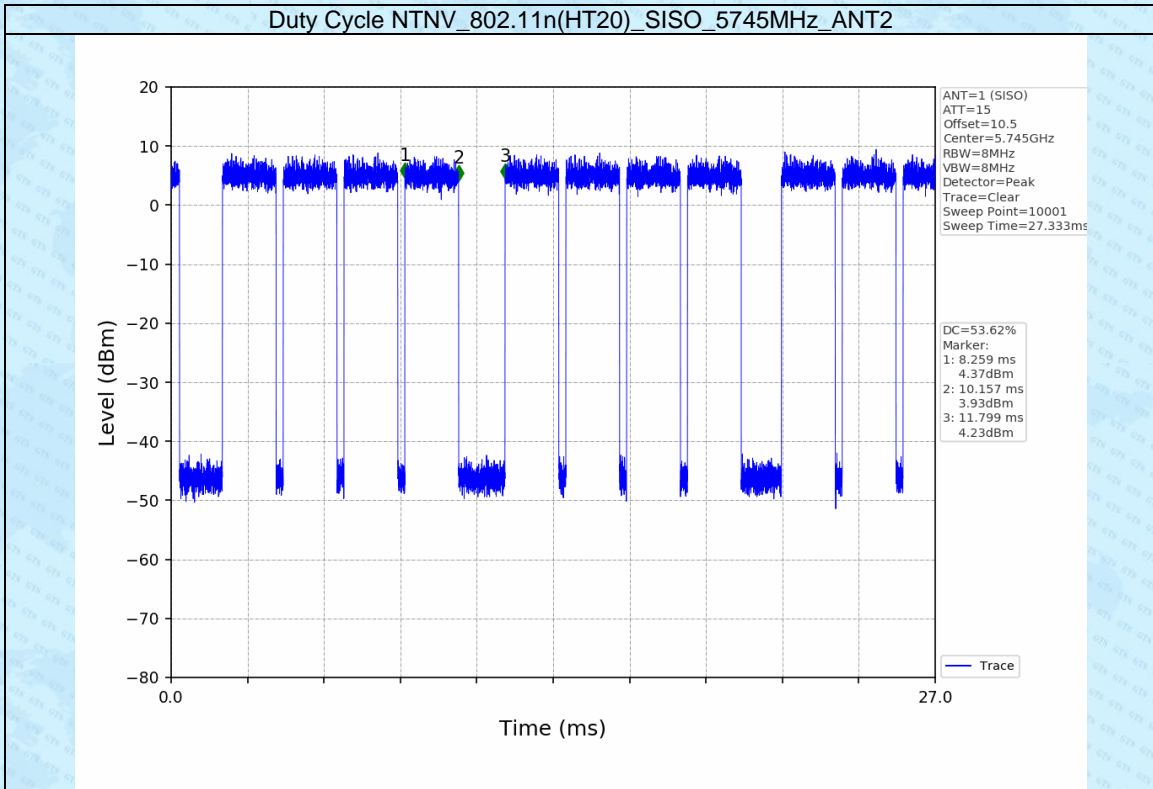
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11n(HT20)	5745.0	SISO	1	1.898	2.149	88.32	0.54
	5785.0	SISO	1	1.895	3.539	53.55	2.71
	5805.0	SISO	1	1.898	3.510	54.07	2.67
802.11ac(VHT20)	5745.0	SISO	1	1.932	3.618	53.40	2.72
	5785.0	SISO	1	1.930	3.518	54.86	2.61
	5805.0	SISO	1	1.906	3.507	54.35	2.65
802.11n(HT20)	5745.0	SISO	1	1.898	3.540	53.62	2.71
	5785.0	SISO	1	1.895	3.793	49.96	3.01
	5805.0	SISO	1	1.921	4.194	45.80	3.39
802.11ac(VHT20)	5745.0	SISO	1	1.909	3.510	54.39	2.64
	5785.0	SISO	1	1.908	3.703	51.53	2.88
	5805.0	SISO	1	1.909	3.478	54.89	2.61

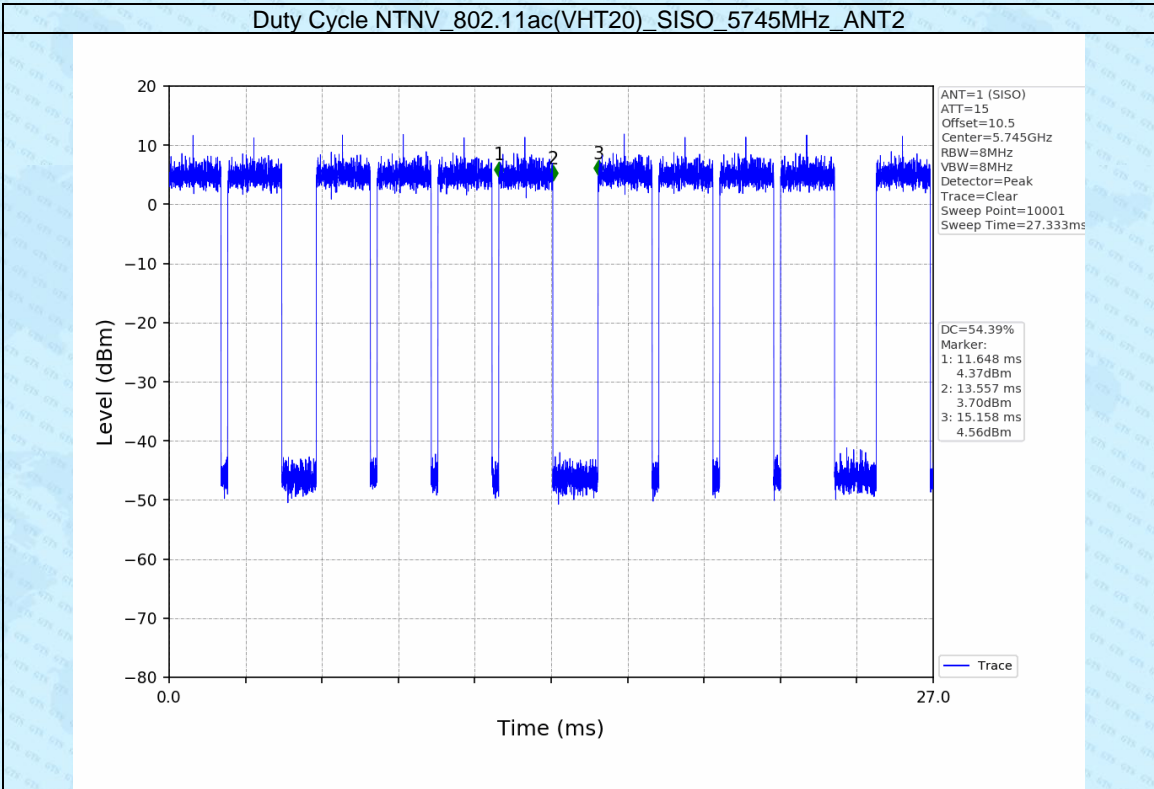
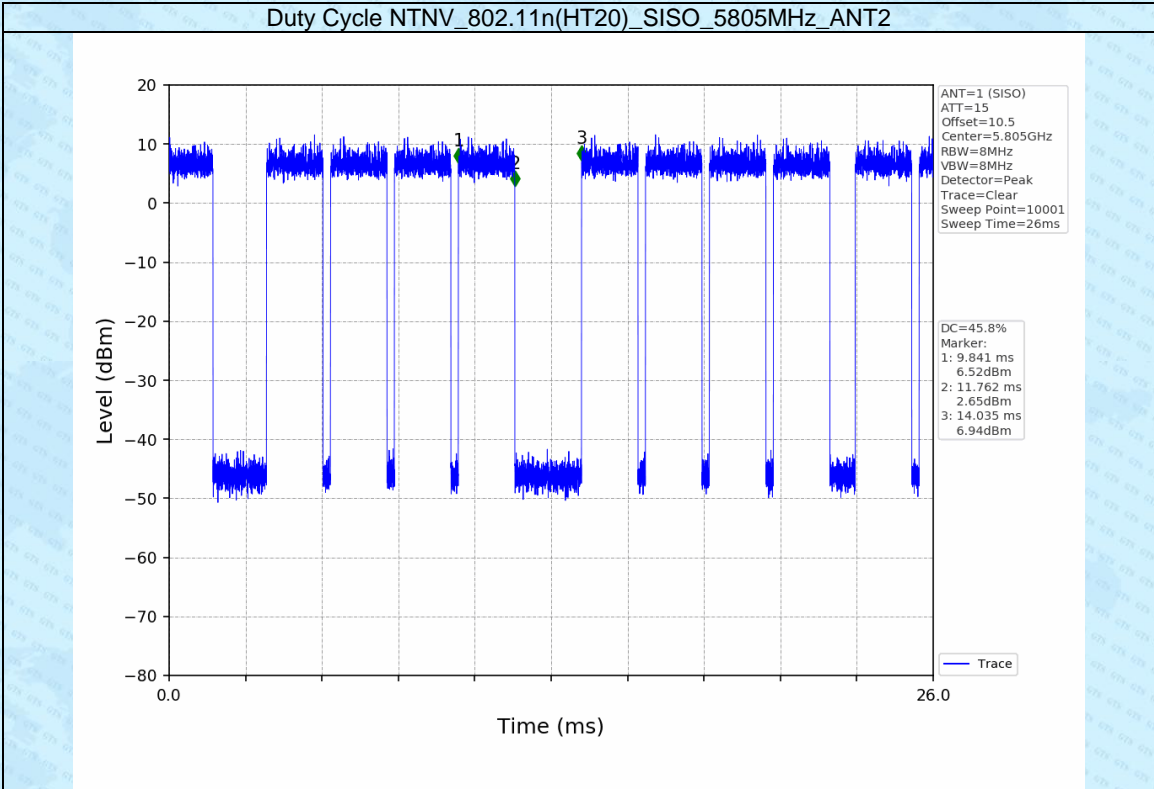
## 1.2 Test Graph

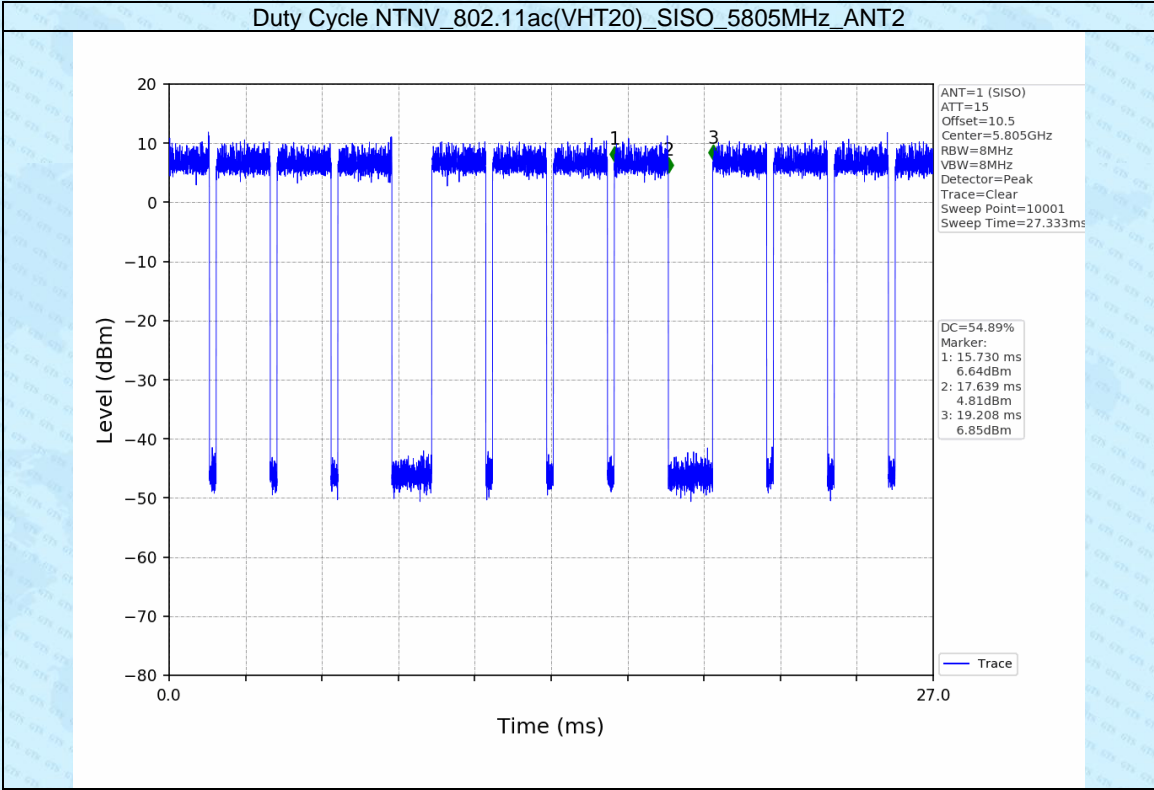
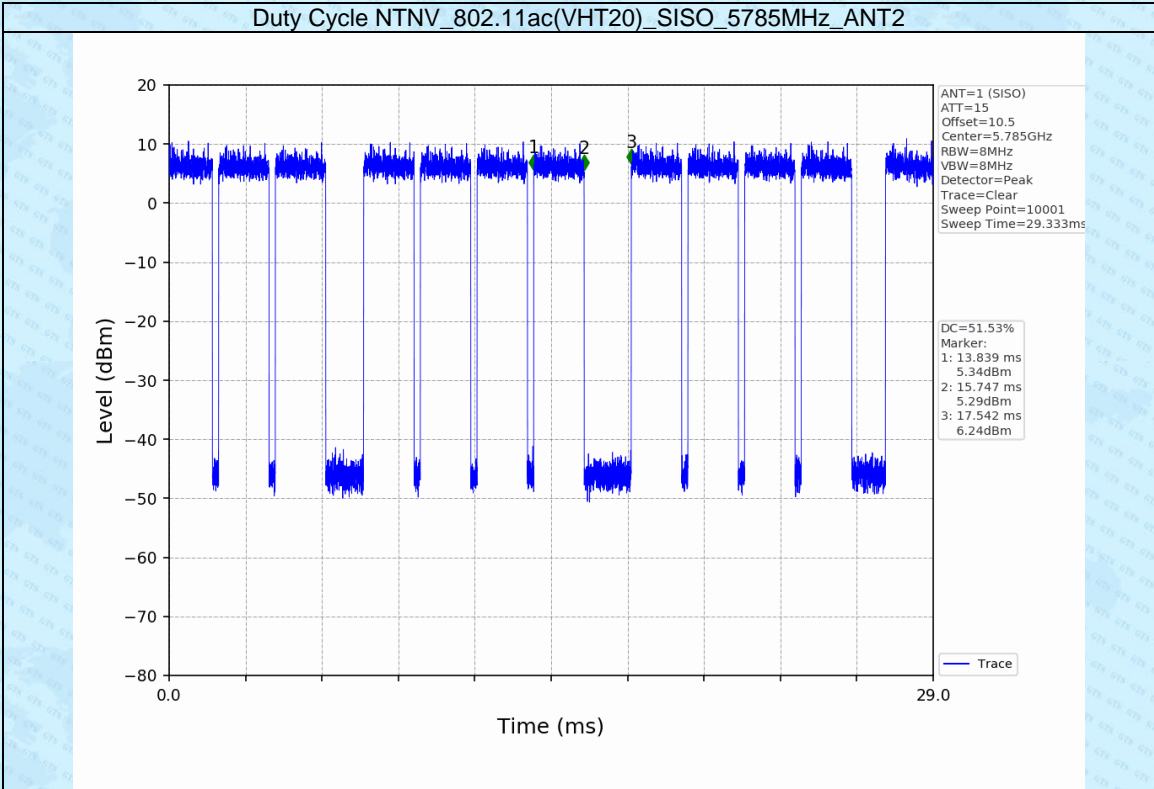












## 2. Bandwidth

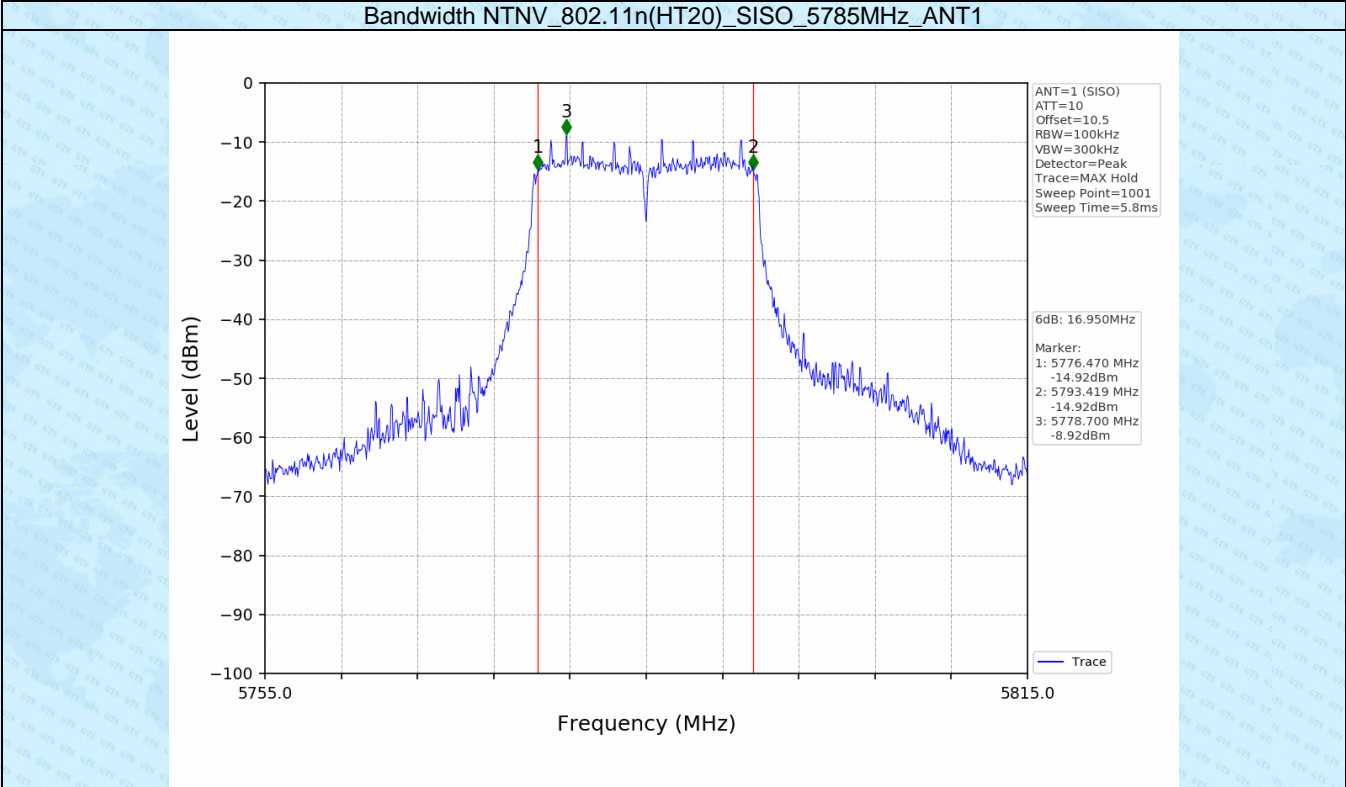
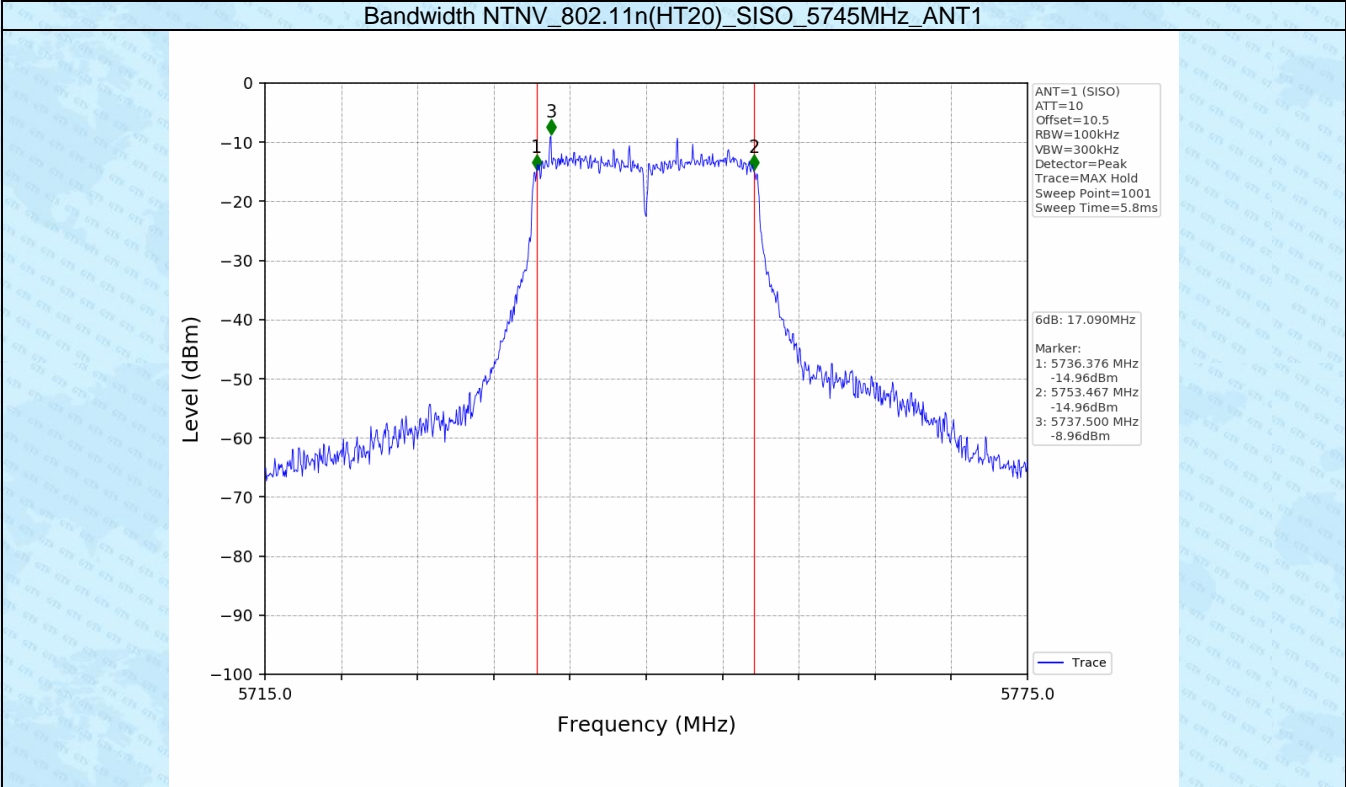
### 2.1 Test Result

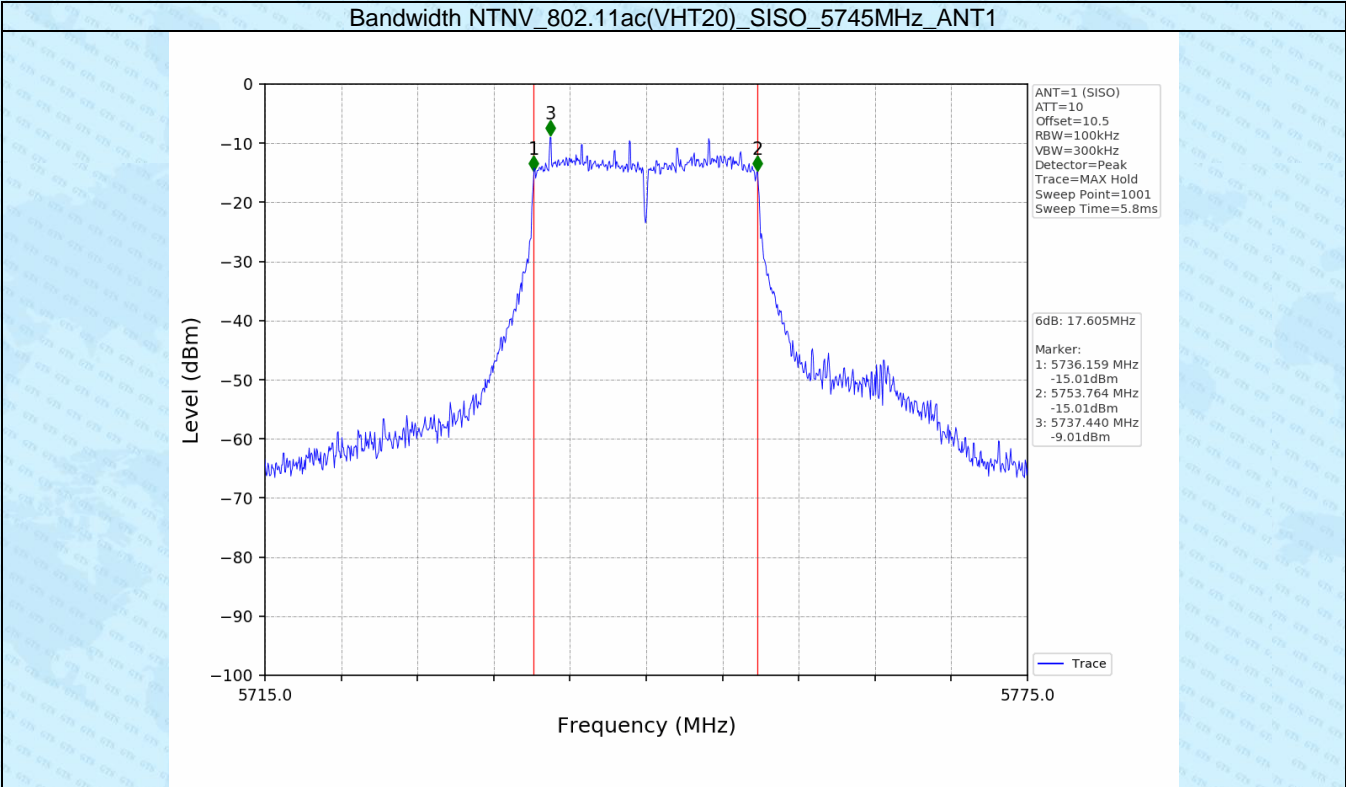
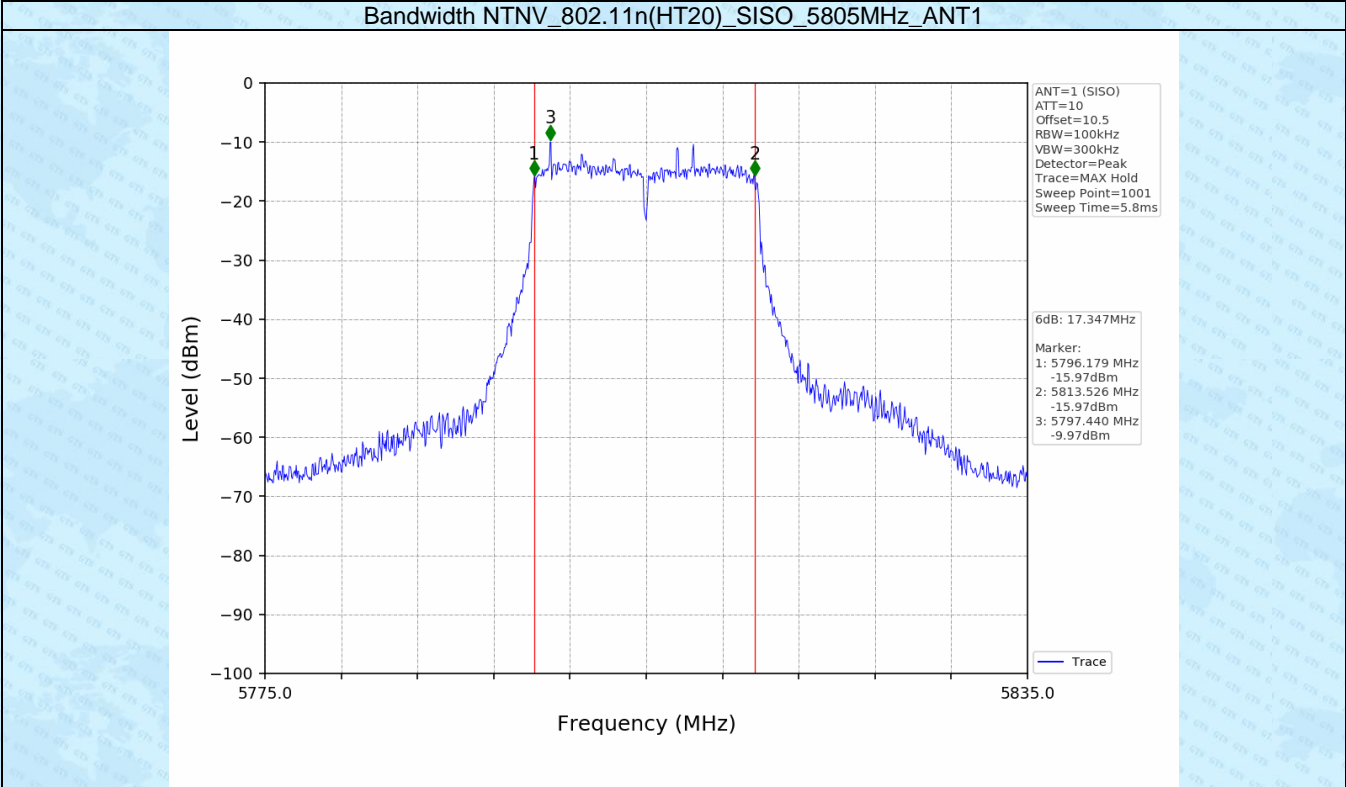
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11n(HT20)	5745.0	SISO	1	17.090	≥0.5	PASS
	5785.0	SISO	1	16.950	≥0.5	PASS
	5805.0	SISO	1	17.347	≥0.5	PASS
802.11ac(VHT20)	5745.0	SISO	1	17.605	≥0.5	PASS
	5785.0	SISO	1	17.566	≥0.5	PASS
	5805.0	SISO	1	17.381	≥0.5	PASS
802.11n(HT20)	5745.0	SISO	2	17.595	≥0.5	PASS
	5785.0	SISO	2	16.597	≥0.5	PASS
	5805.0	SISO	2	17.617	≥0.5	PASS
802.11ac(VHT20)	5745.0	SISO	2	17.345	≥0.5	PASS
	5785.0	SISO	2	16.967	≥0.5	PASS
	5805.0	SISO	2	16.971	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11n(HT20)	5745.0	SISO	1	18.337	Only for Report Use
	5785.0	SISO	1	18.244	Only for Report Use
	5805.0	SISO	1	18.155	Only for Report Use
802.11ac(VHT20)	5745.0	SISO	1	18.154	Only for Report Use
	5785.0	SISO	1	18.323	Only for Report Use
	5805.0	SISO	1	18.257	Only for Report Use
802.11n(HT20)	5745.0	SISO	2	18.257	Only for Report Use
	5785.0	SISO	2	18.240	Only for Report Use
	5805.0	SISO	2	18.204	Only for Report Use
802.11ac(VHT20)	5745.0	SISO	2	18.133	Only for Report Use
	5785.0	SISO	2	18.158	Only for Report Use
	5805.0	SISO	2	18.235	Only for Report Use

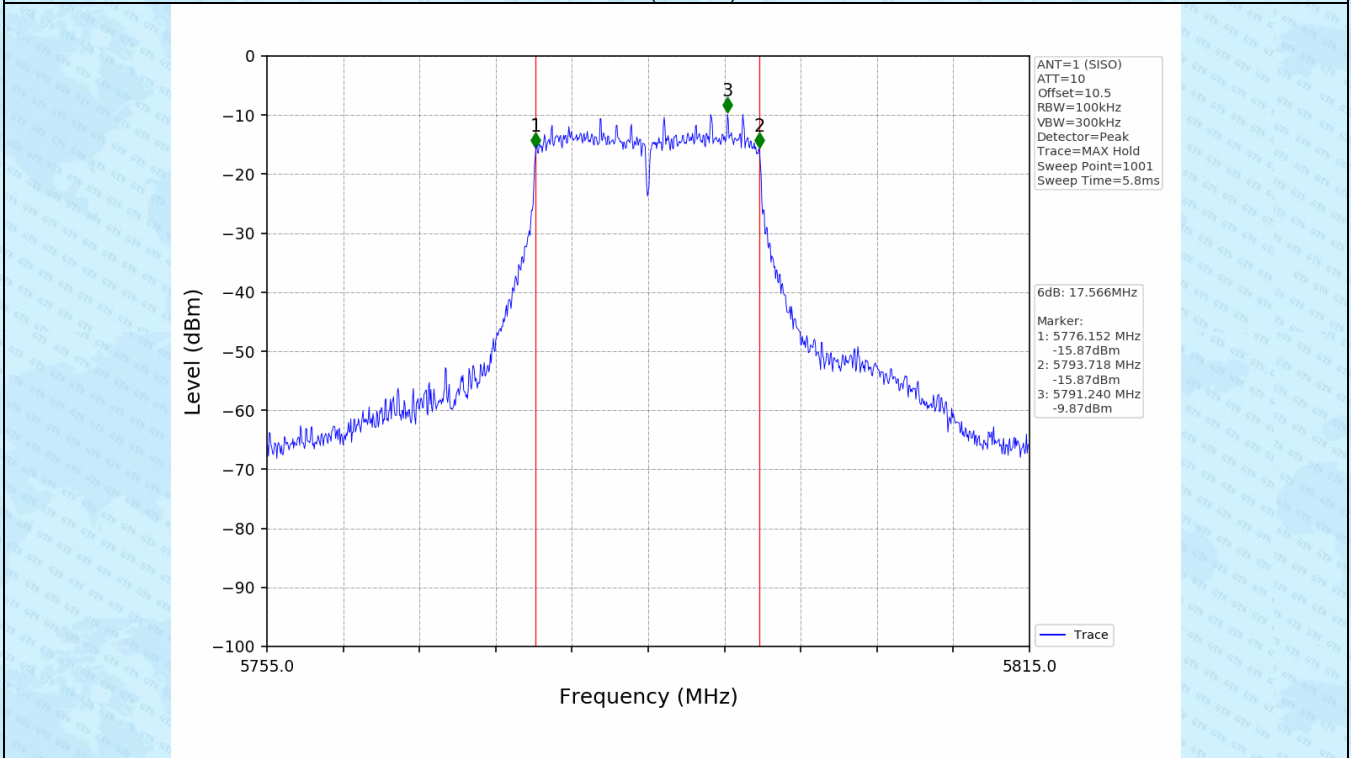


## 2.2 Test Graph - Emission Bandwidth

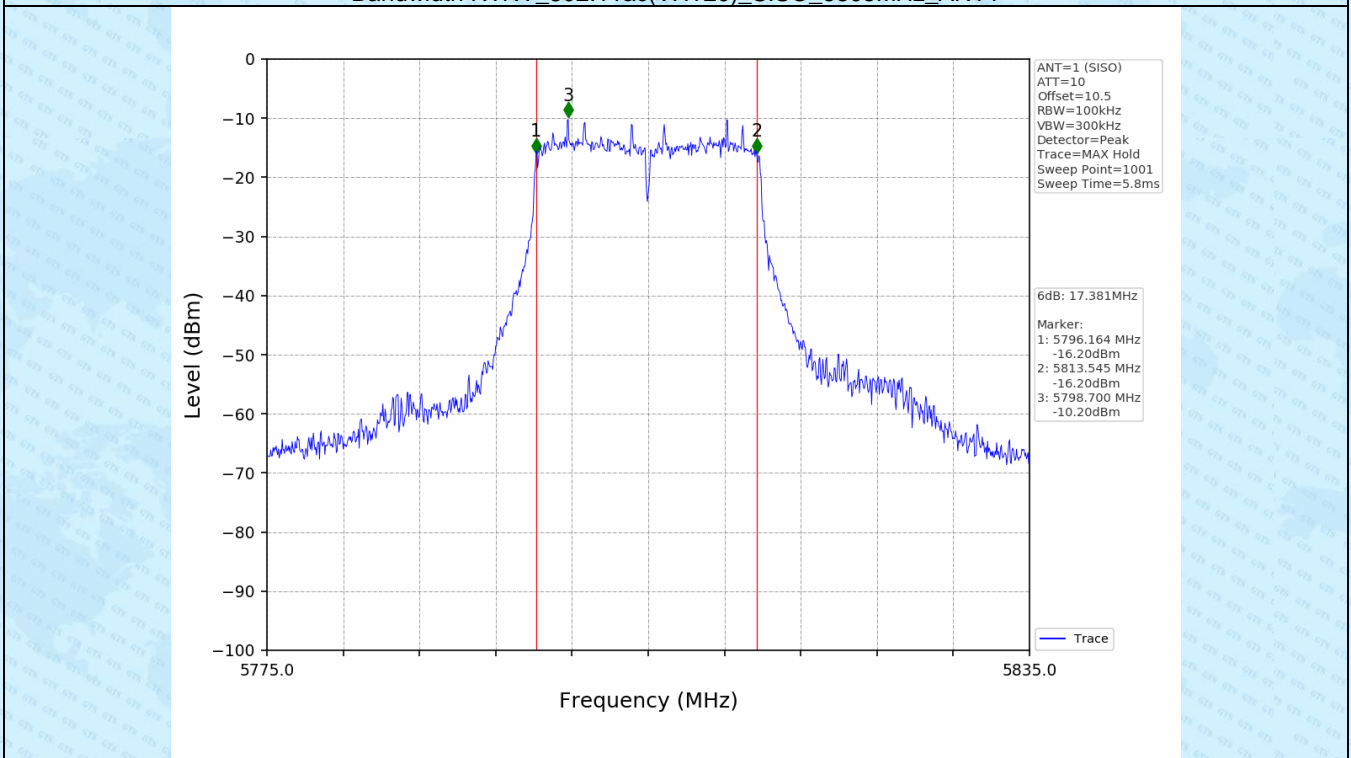


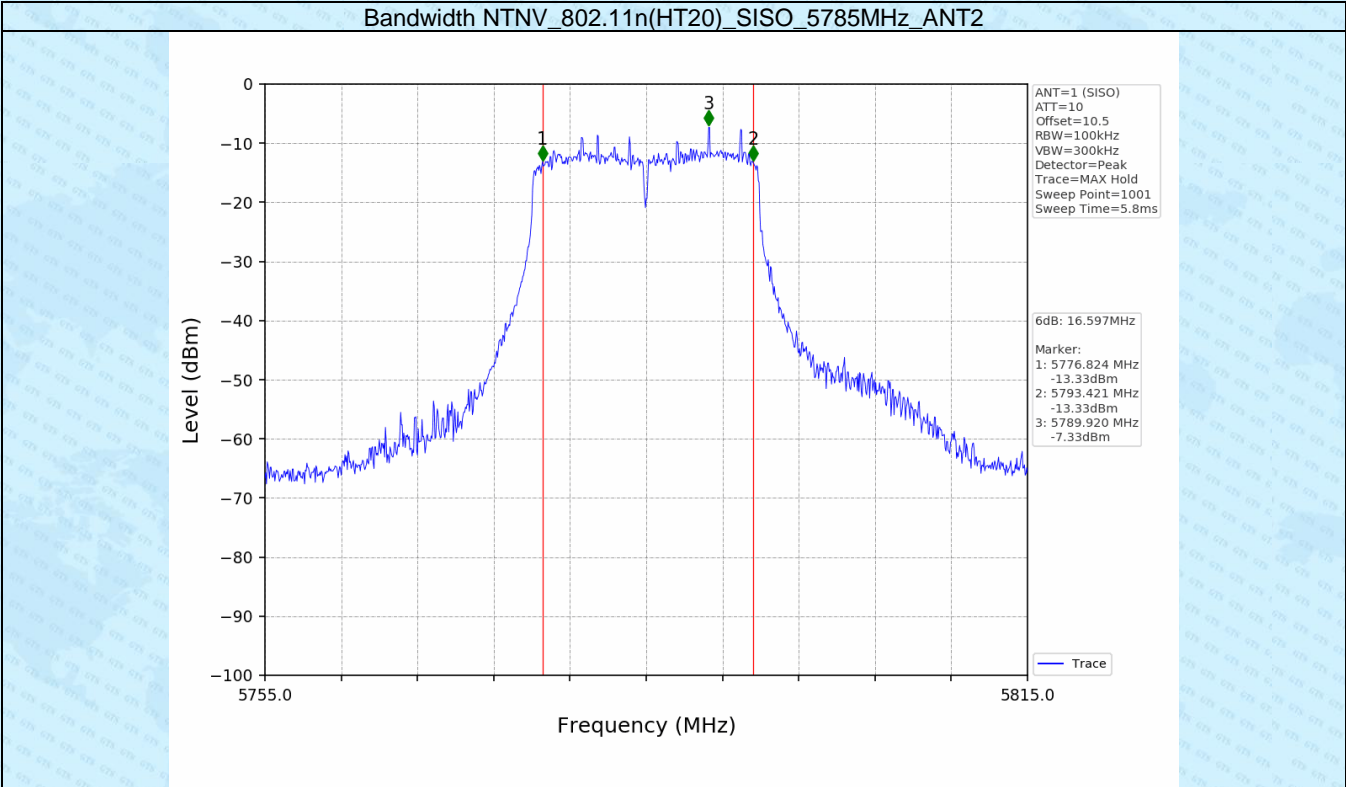
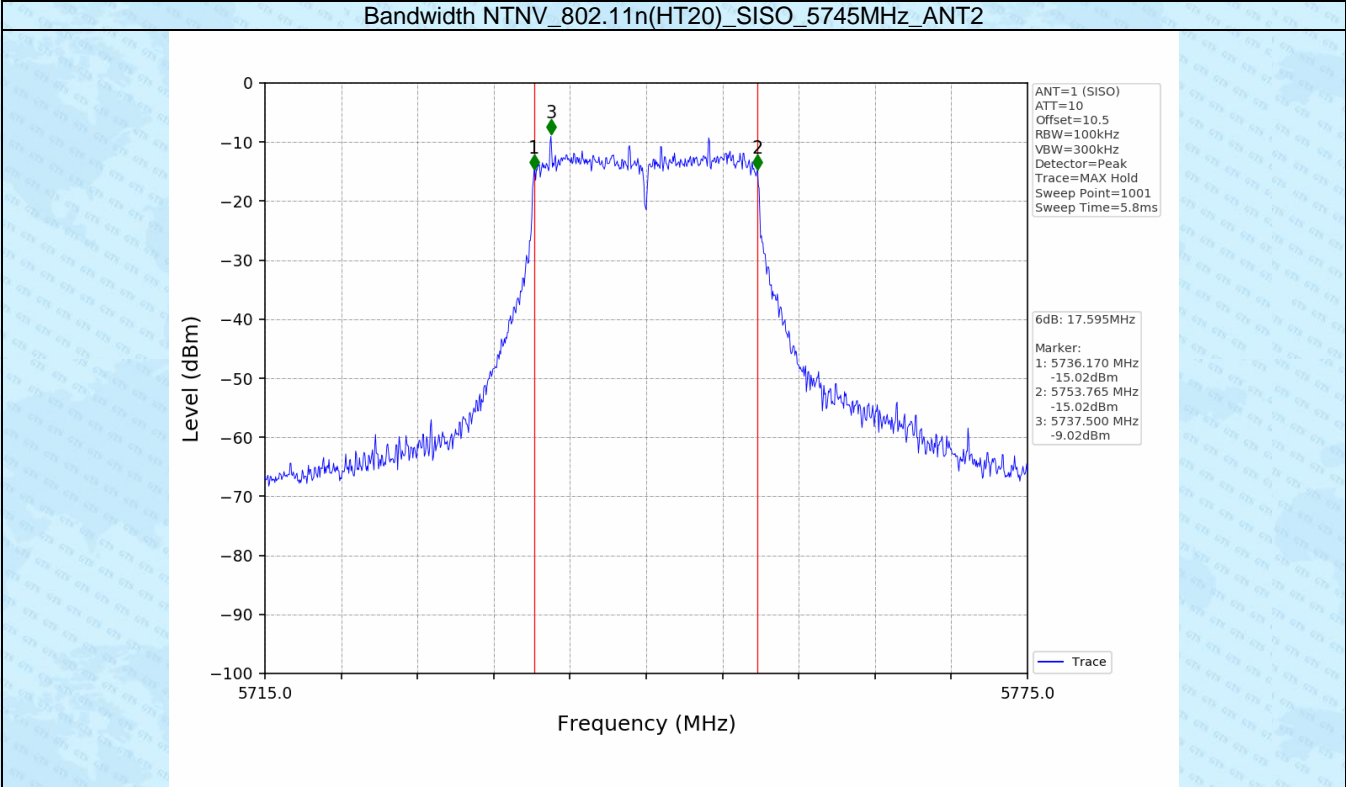


Bandwidth NTN\_V\_802.11ac(VHT20)\_SISO\_5785MHz\_ANT1

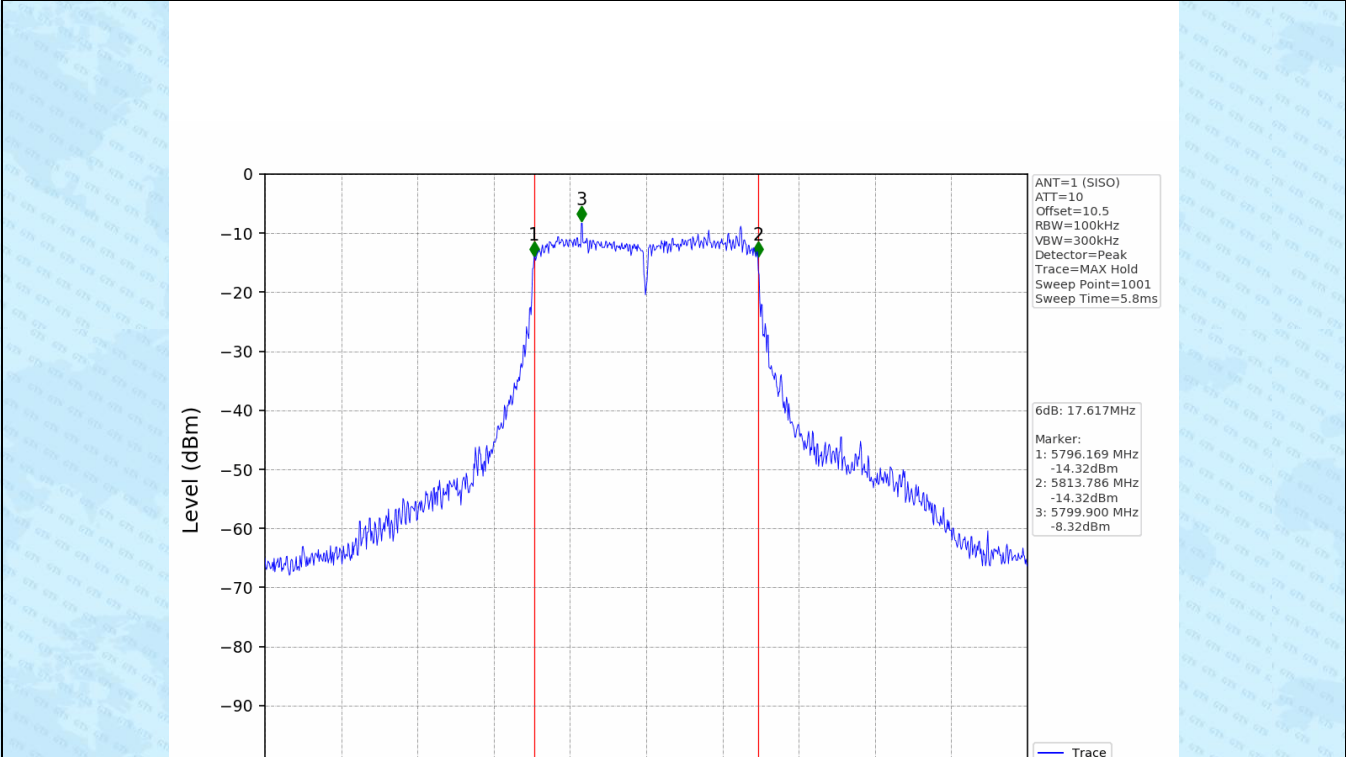


Bandwidth NTN\_V\_802.11ac(VHT20)\_SISO\_5805MHz\_ANT1

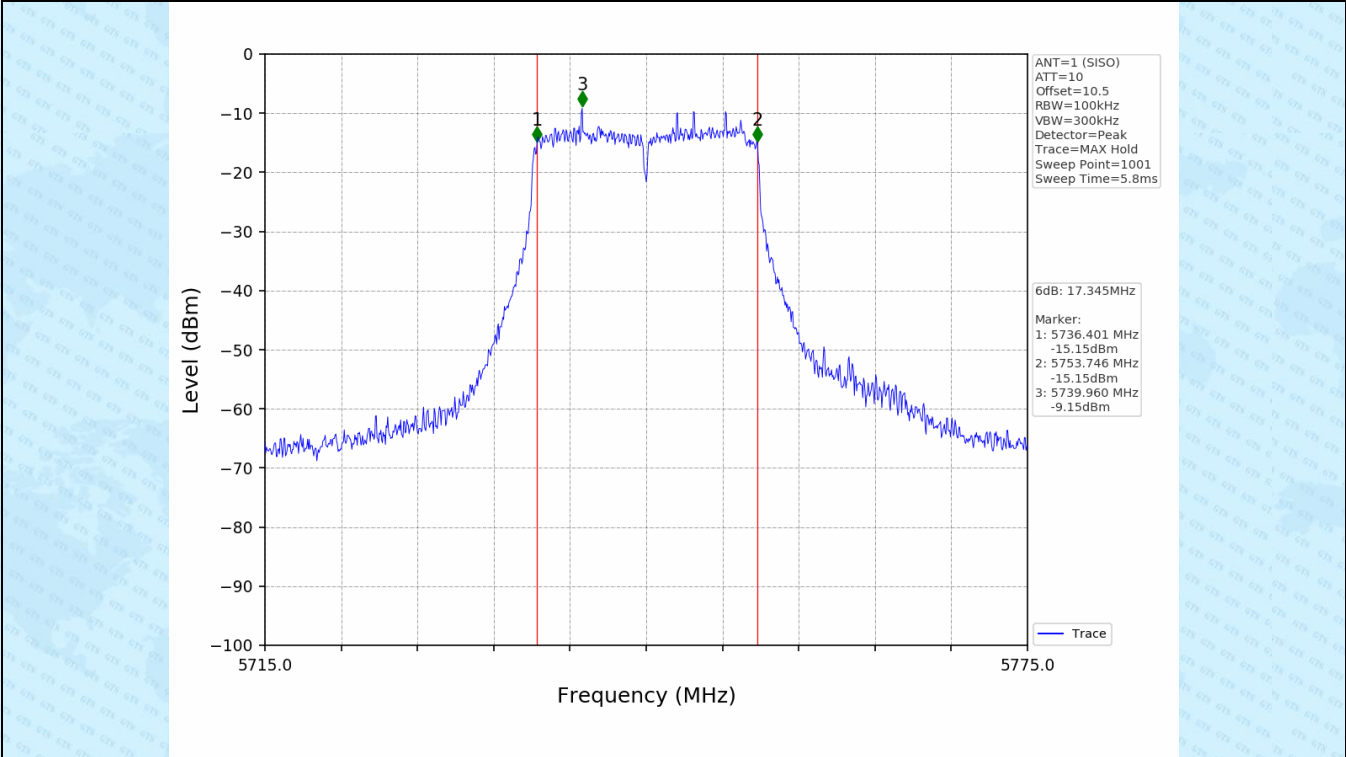


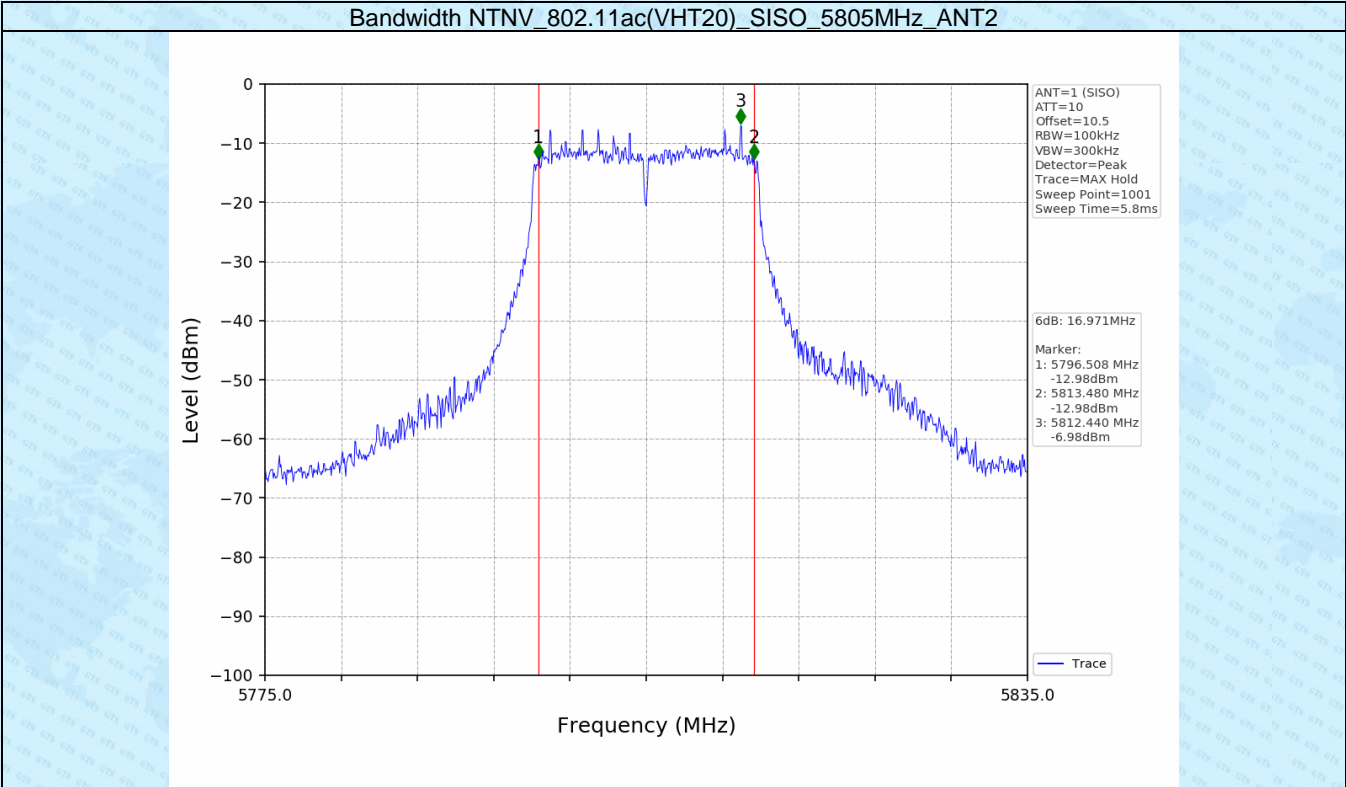
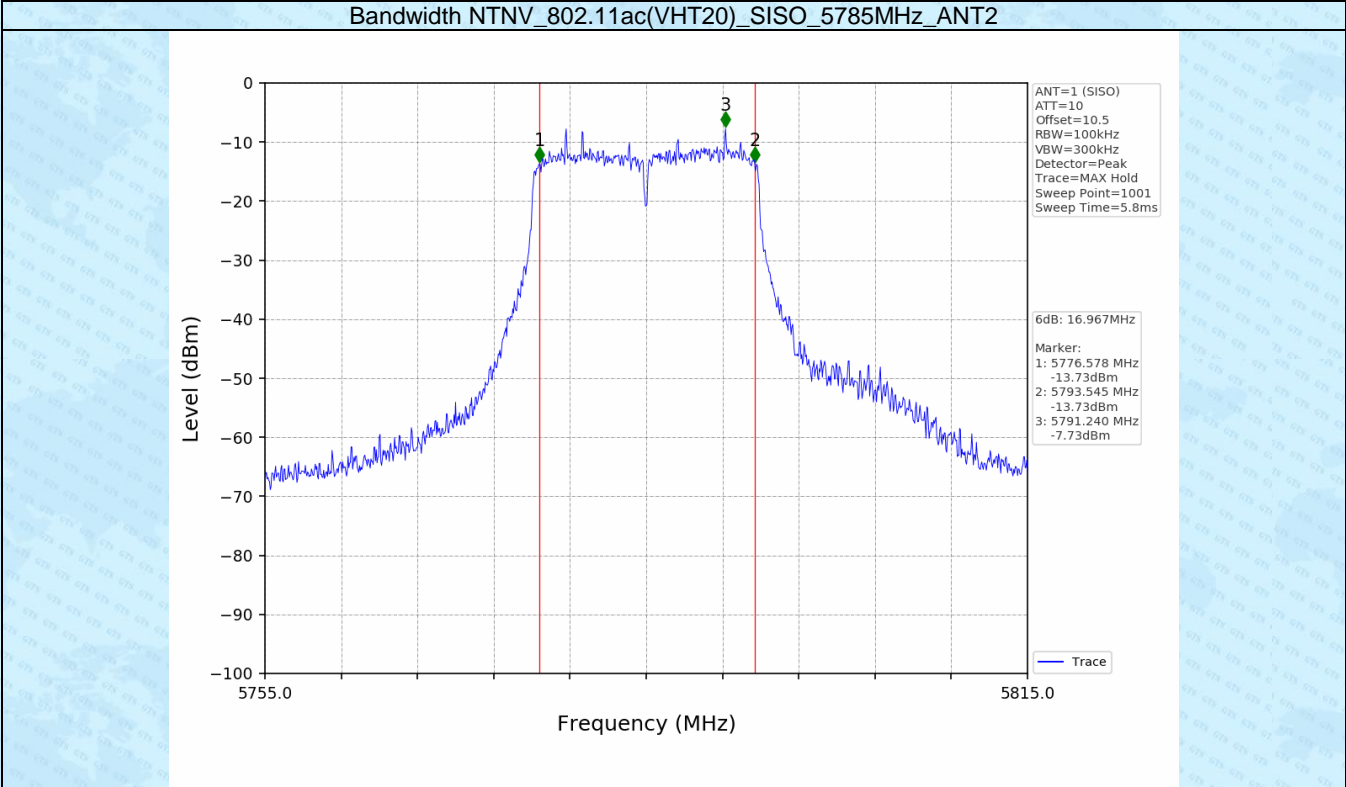


Bandwidth NTN\_802.11n(HT20)\_SISO\_5805MHz\_ANT2

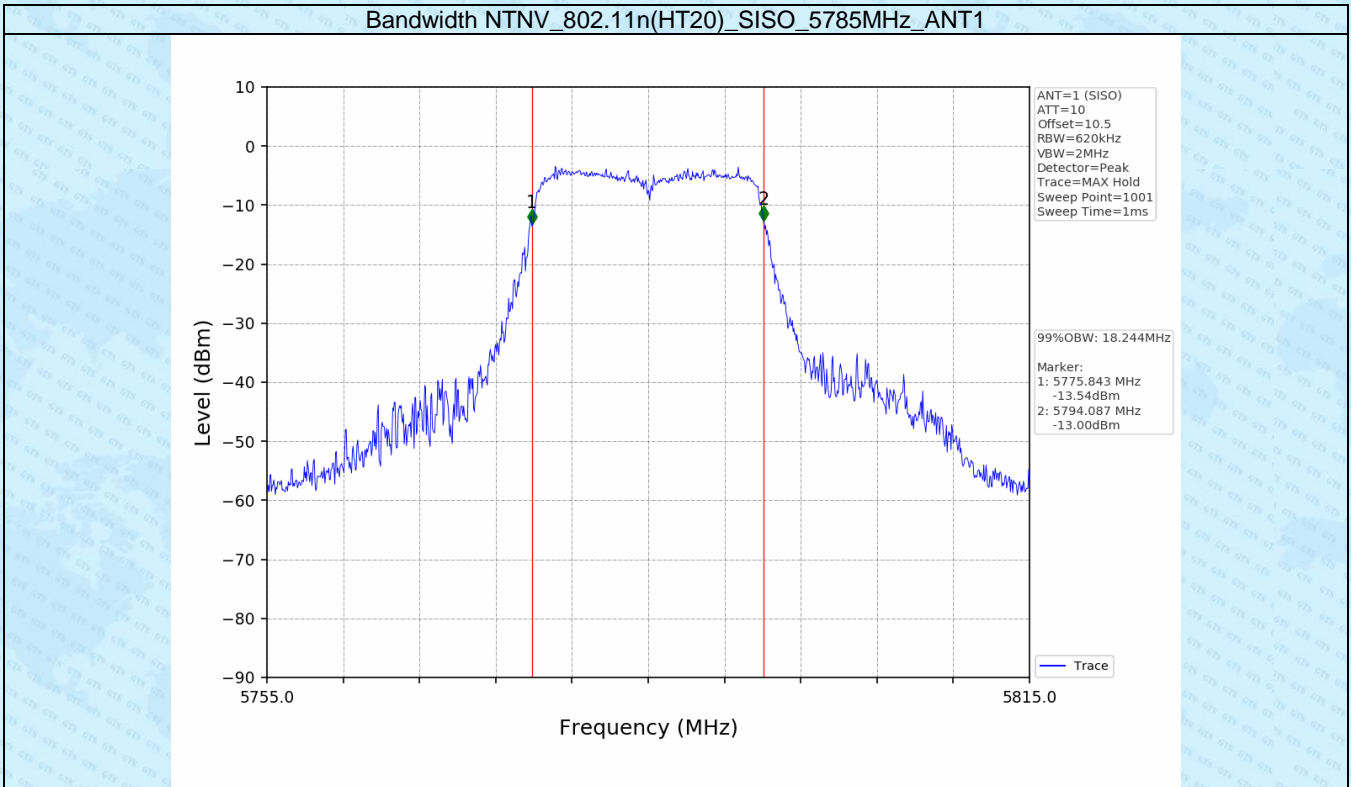
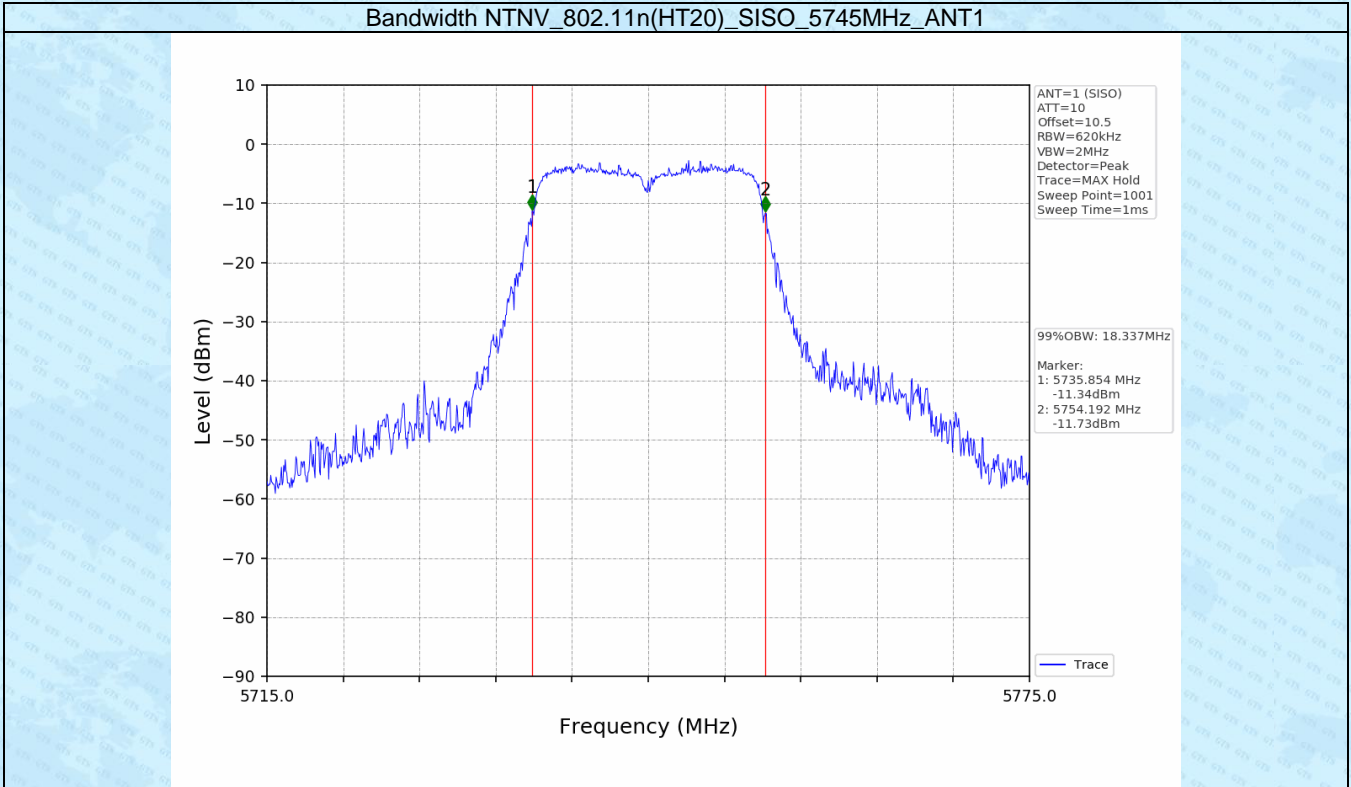


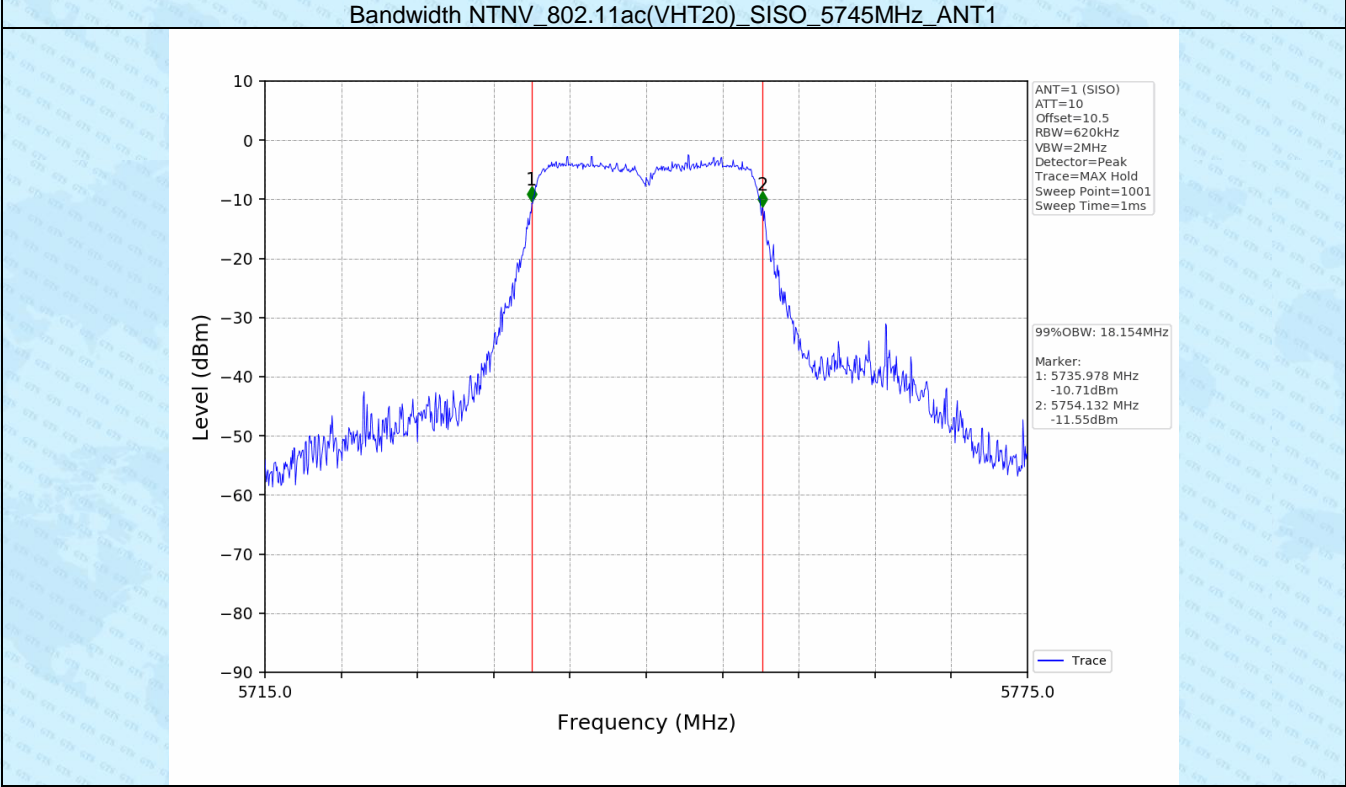
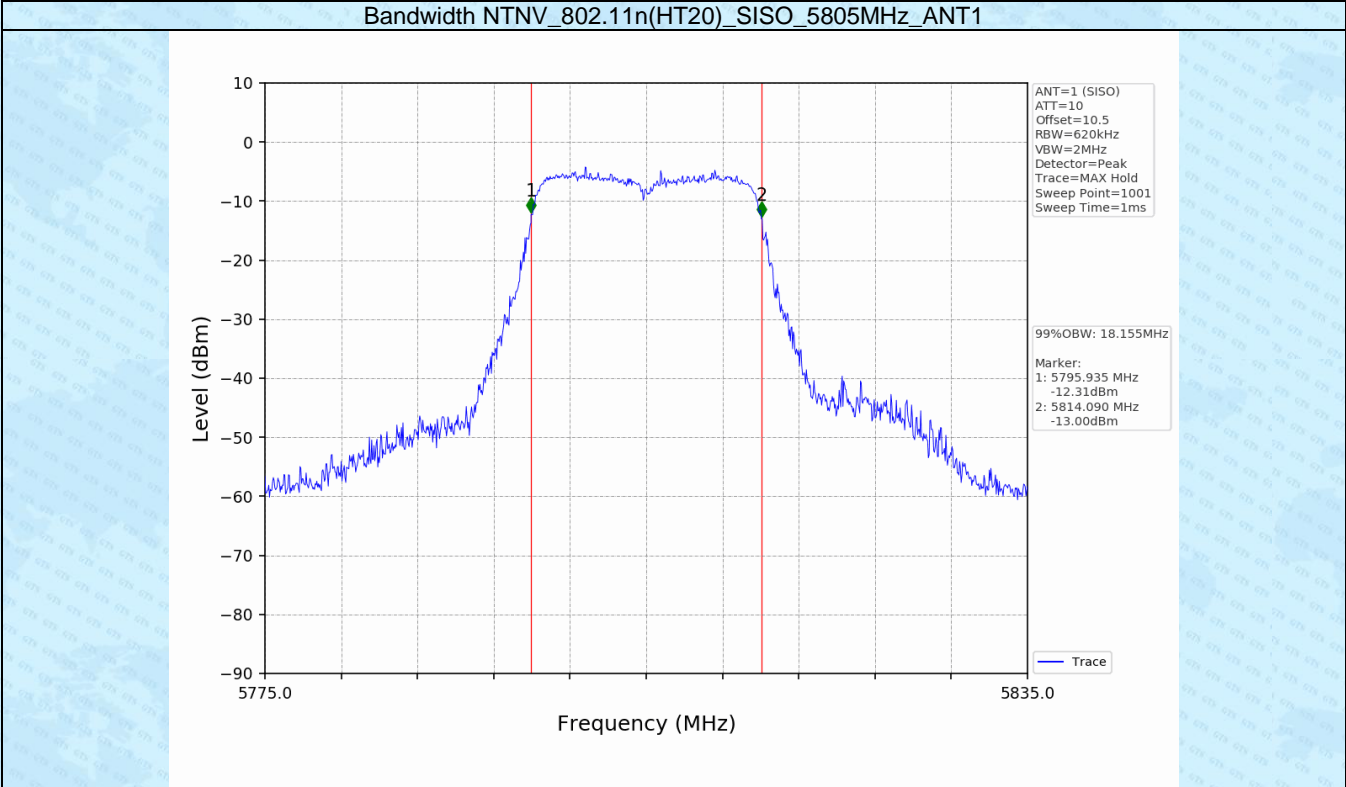
Bandwidth NTN\_802.11ac(VHT20)\_SISO\_5745MHz\_ANT2



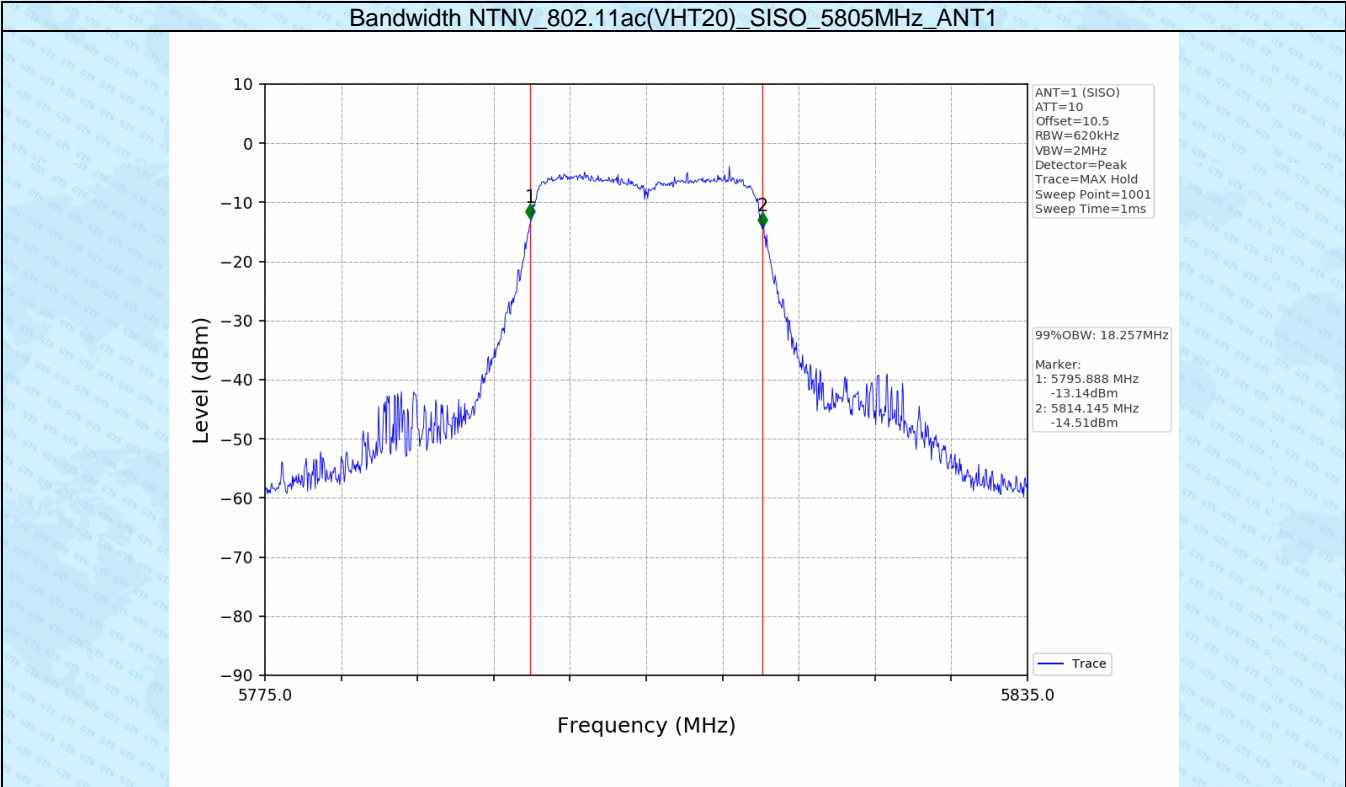
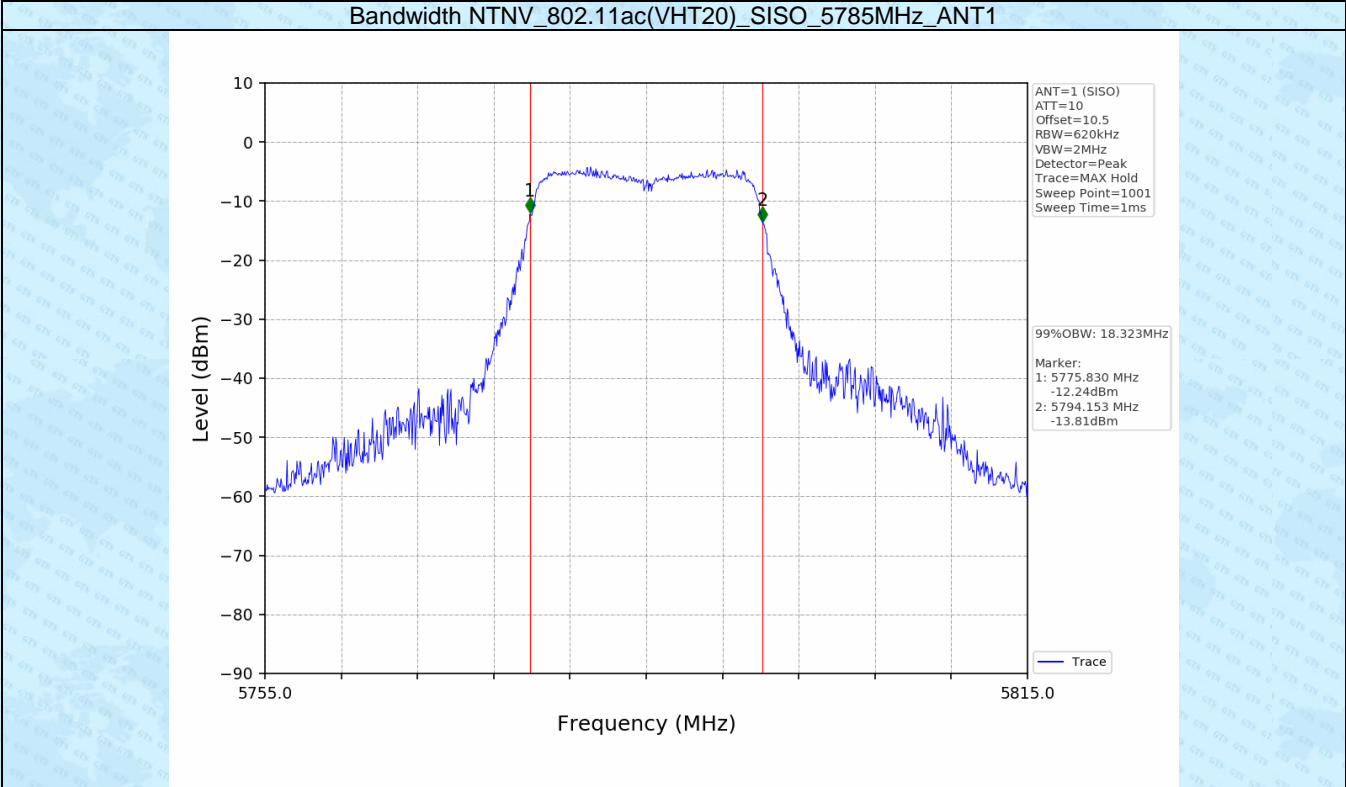


## 2.3 Test Graph - 99% Occupied Bandwidth

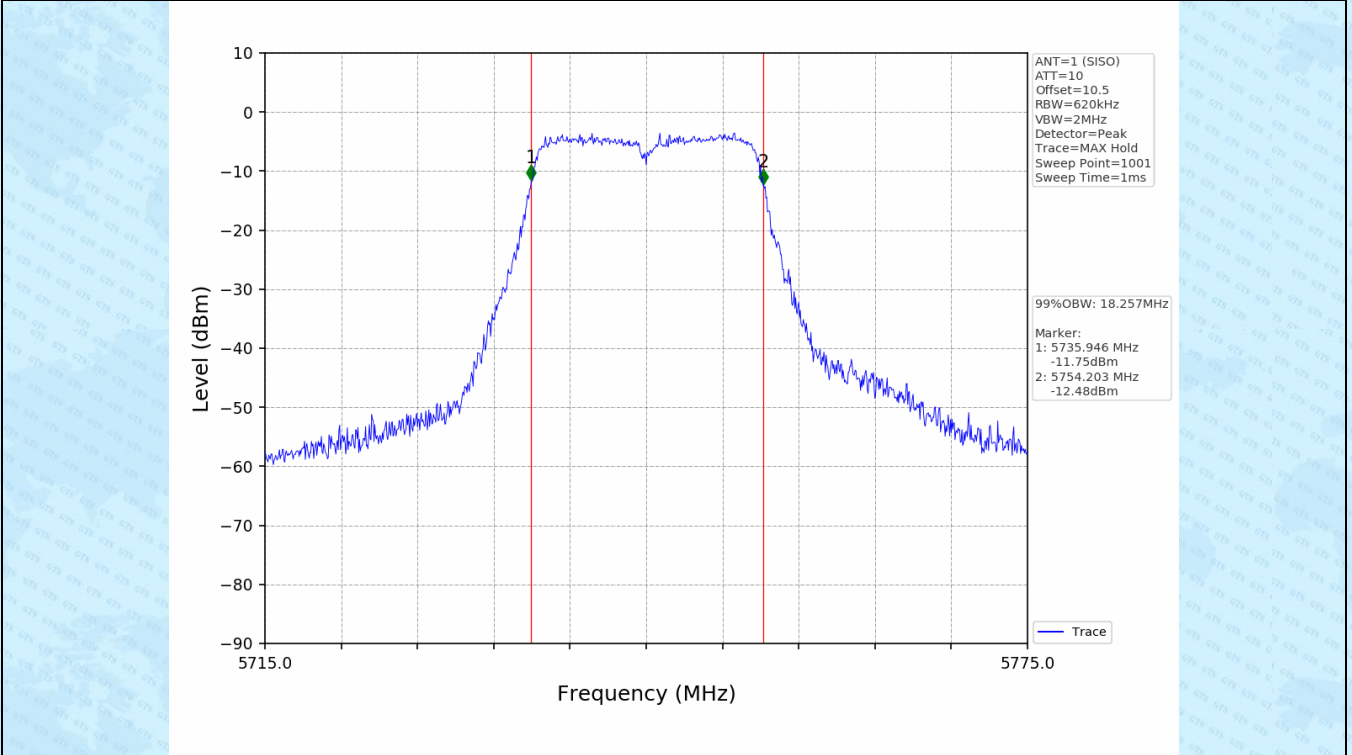




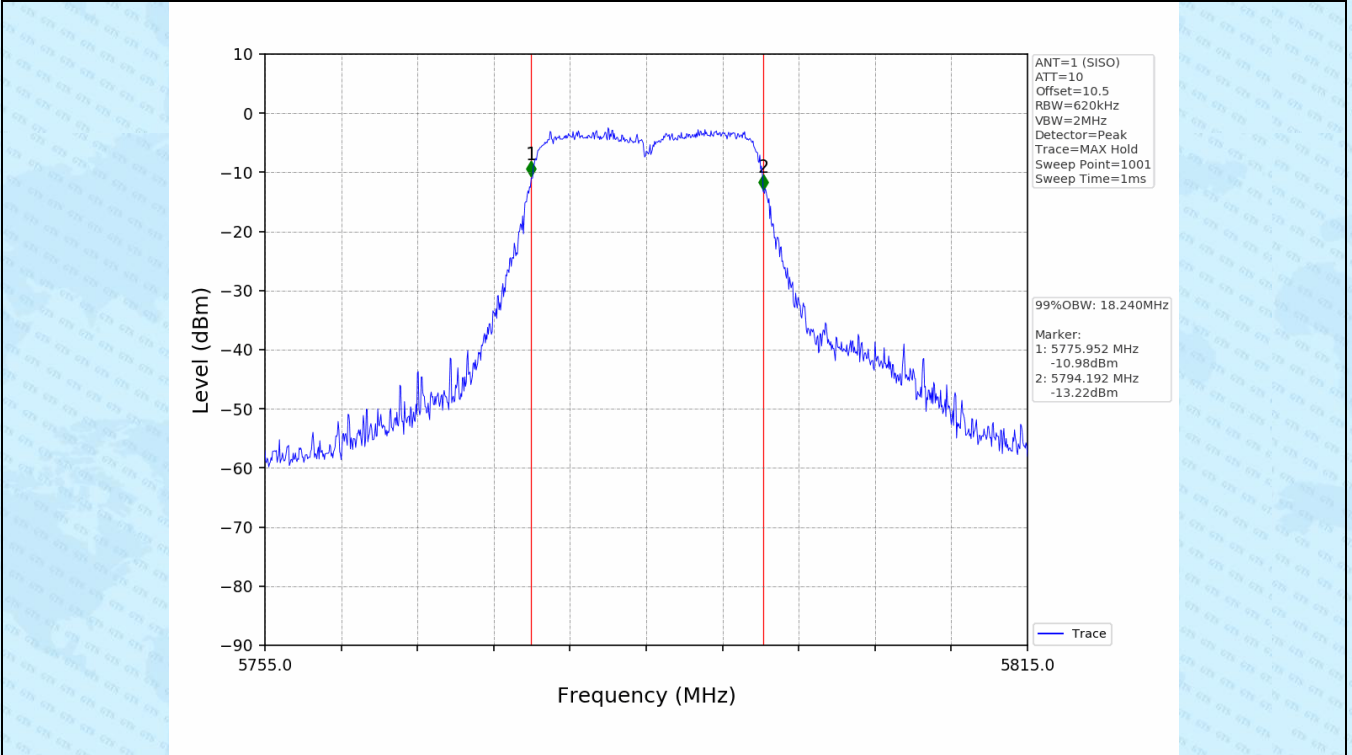




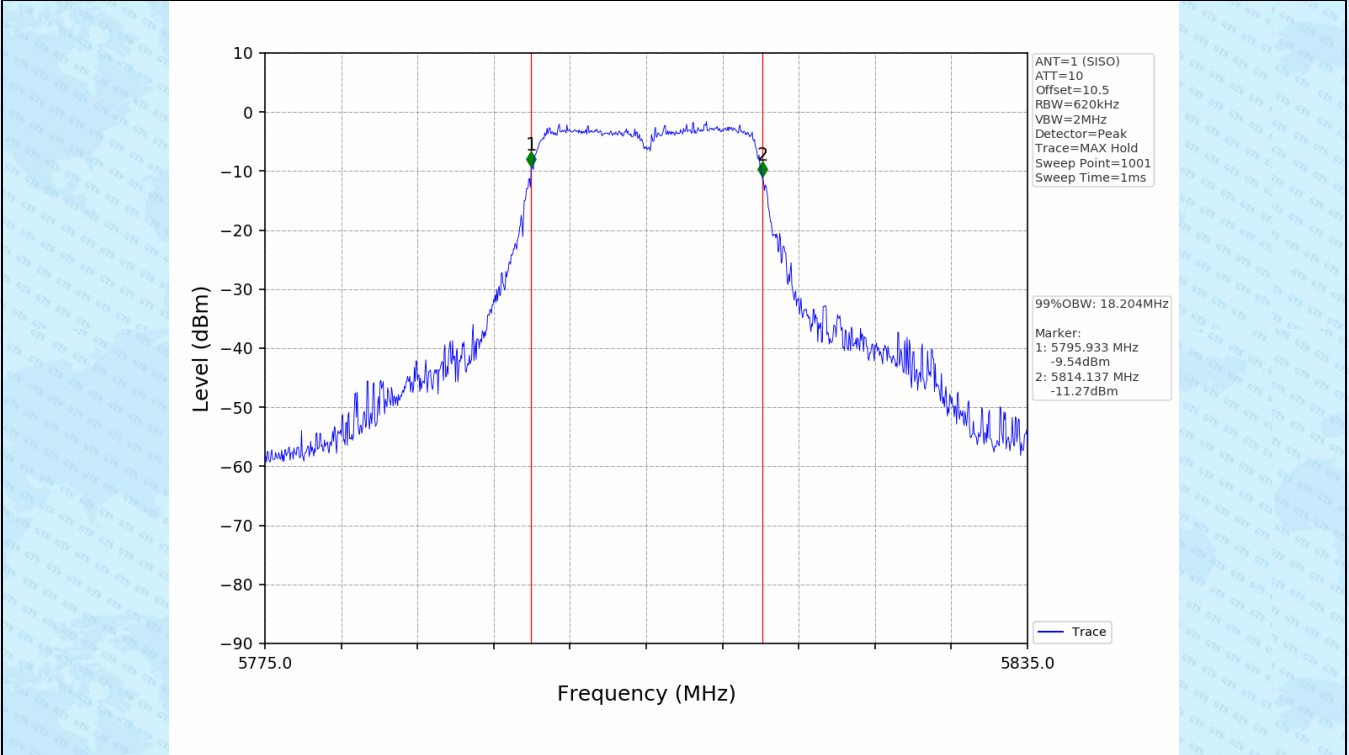
Bandwidth NTV\_802.11n(HT20)\_SISO\_5745MHz\_ANT2



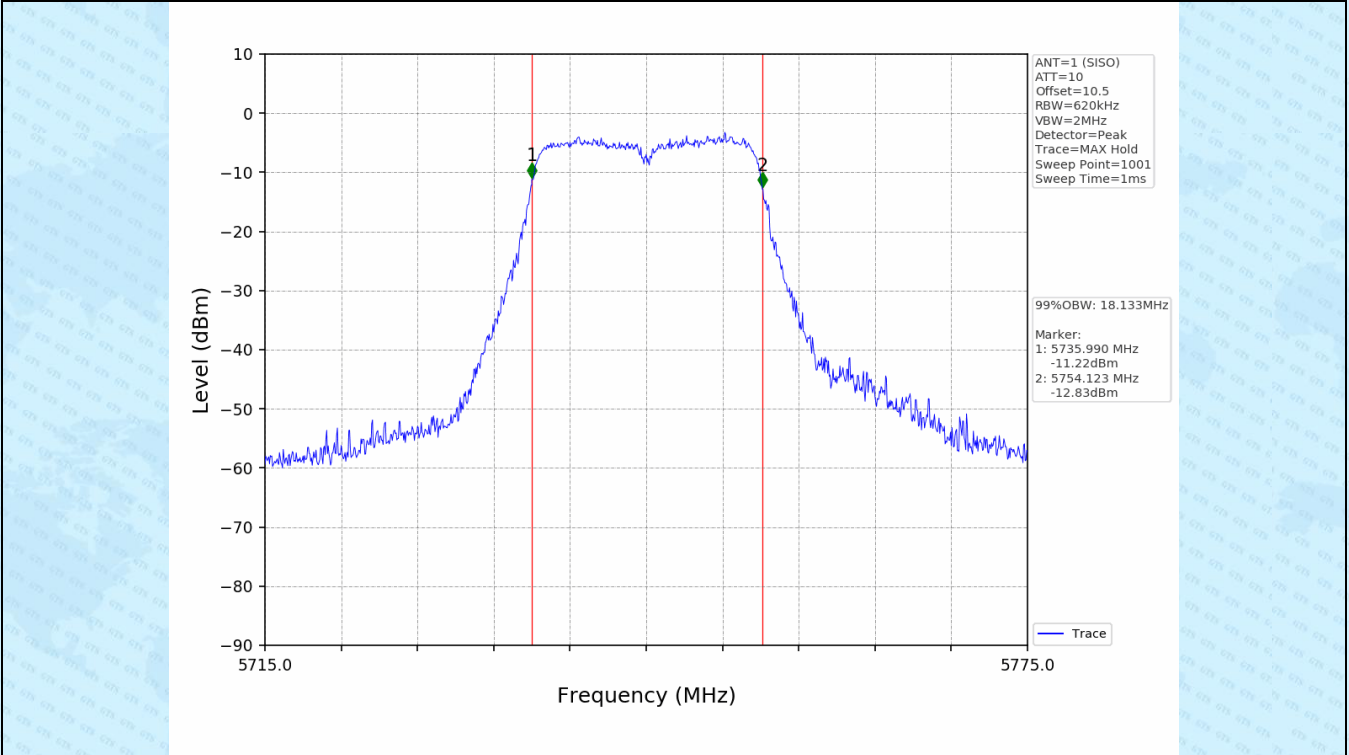
Bandwidth NTV\_802.11n(HT20)\_SISO\_5785MHz\_ANT2



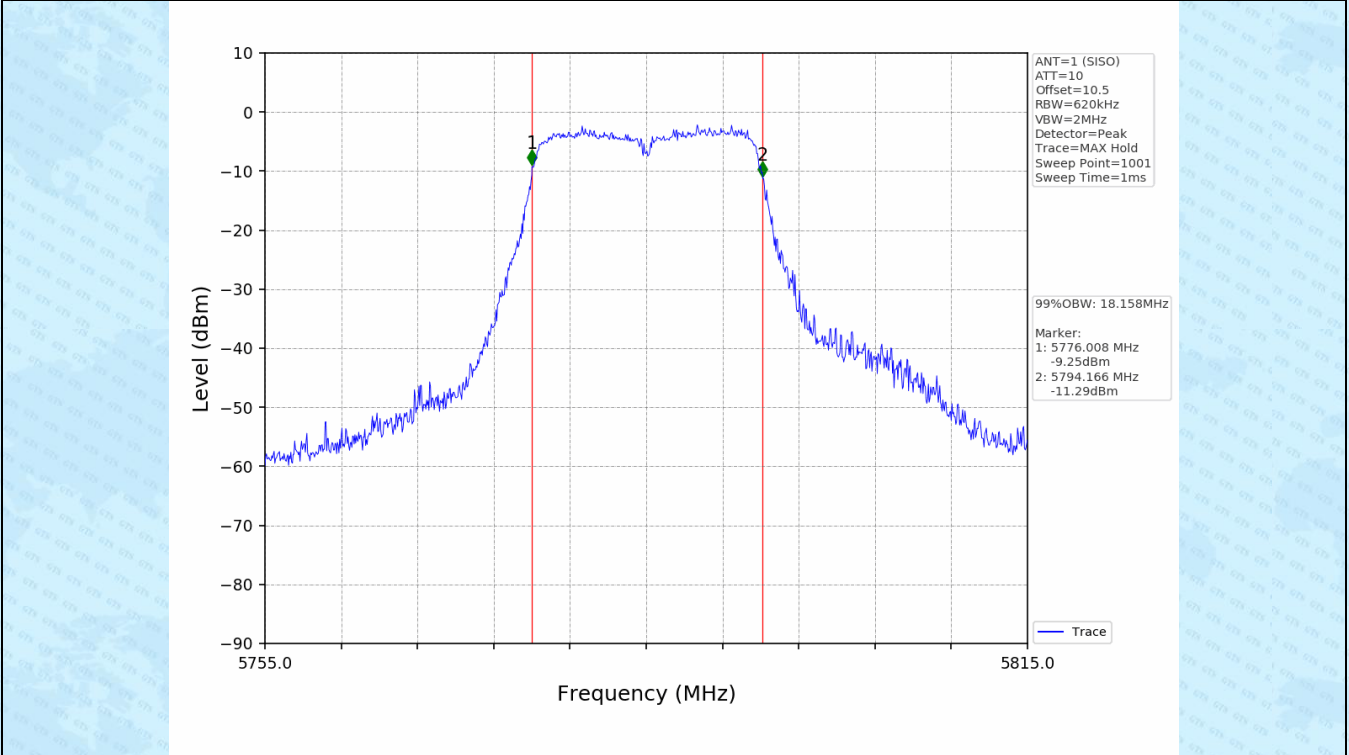
Bandwidth NTN\_V\_802.11n(HT20)\_SISO\_5805MHz\_ANT2



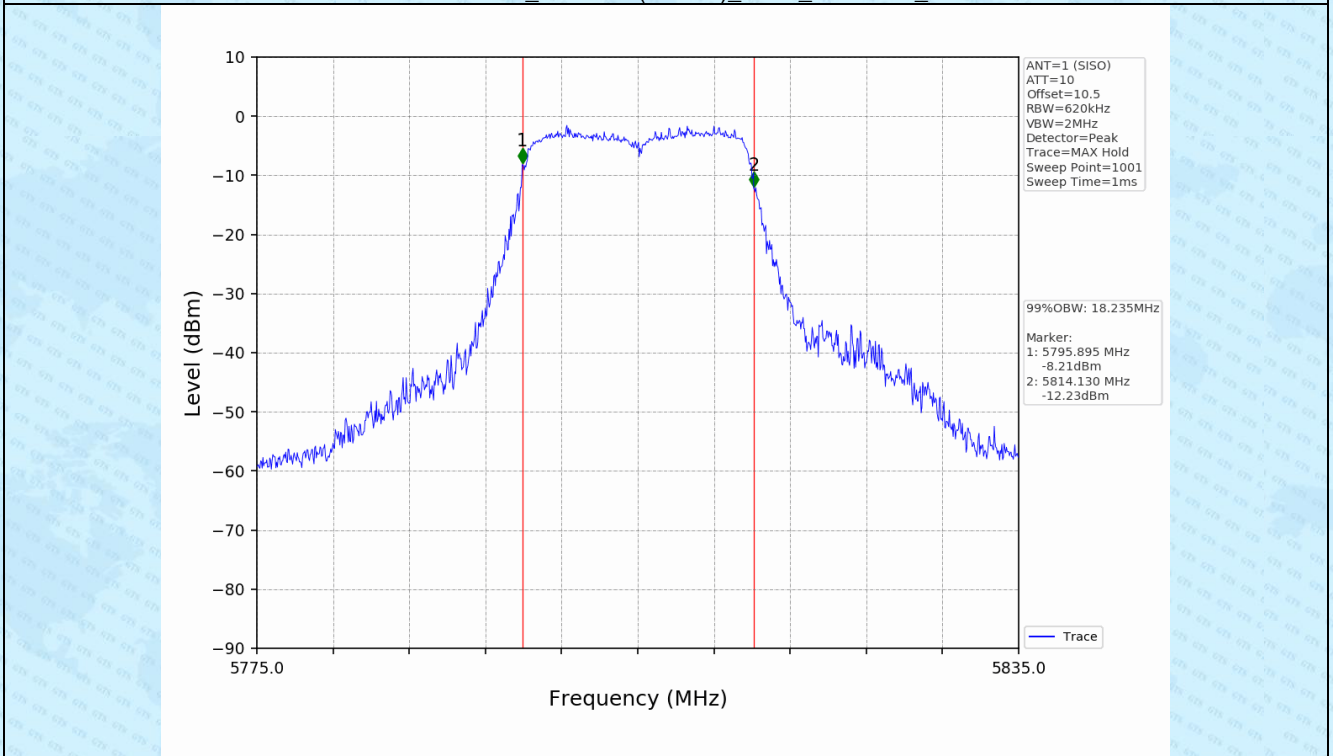
Bandwidth NTN\_V\_802.11ac(VHT20)\_SISO\_5745MHz\_ANT2



Bandwidth NTN\_V\_802.11ac(VHT20)\_SISO\_5785MHz\_ANT2



Bandwidth NTN\_V\_802.11ac(VHT20)\_SISO\_5805MHz\_ANT2



### 3. Maximum Conducted Output Power

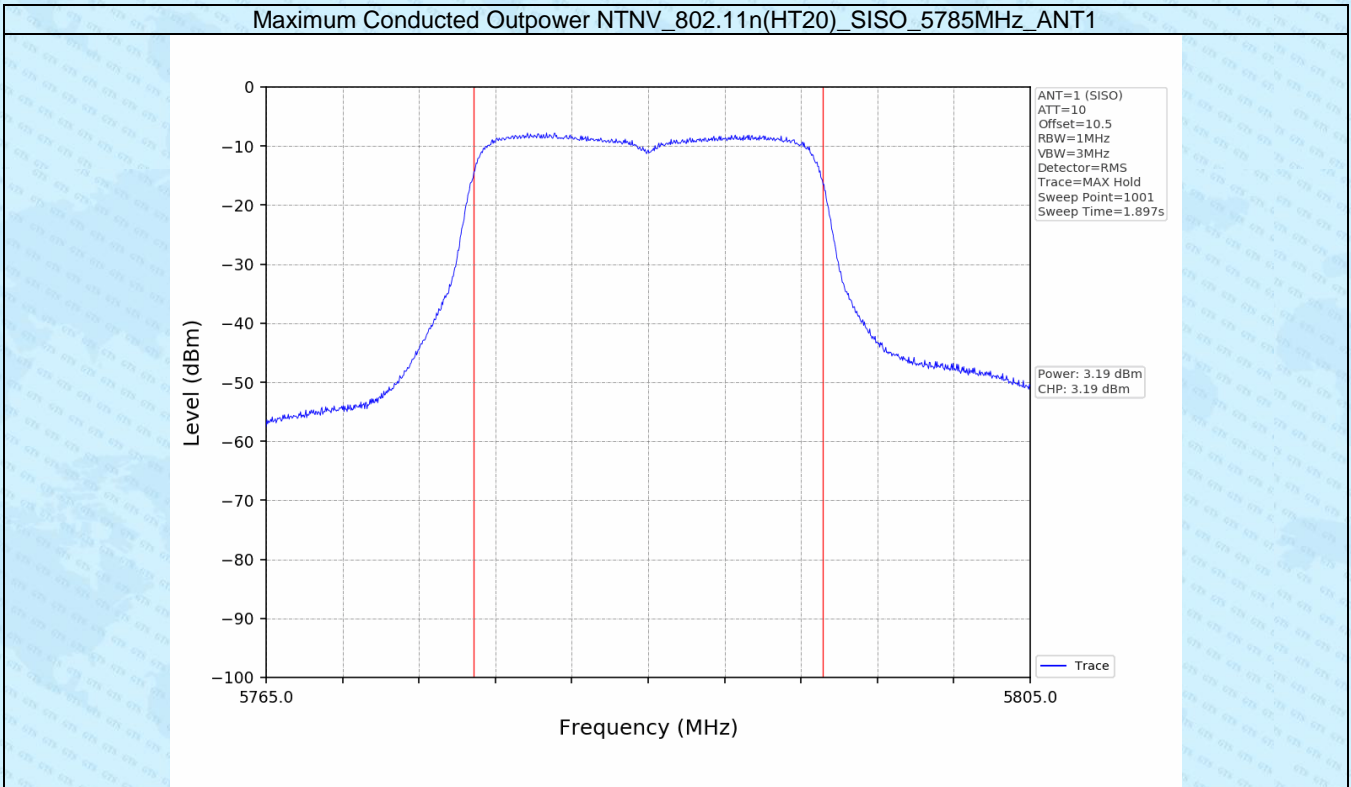
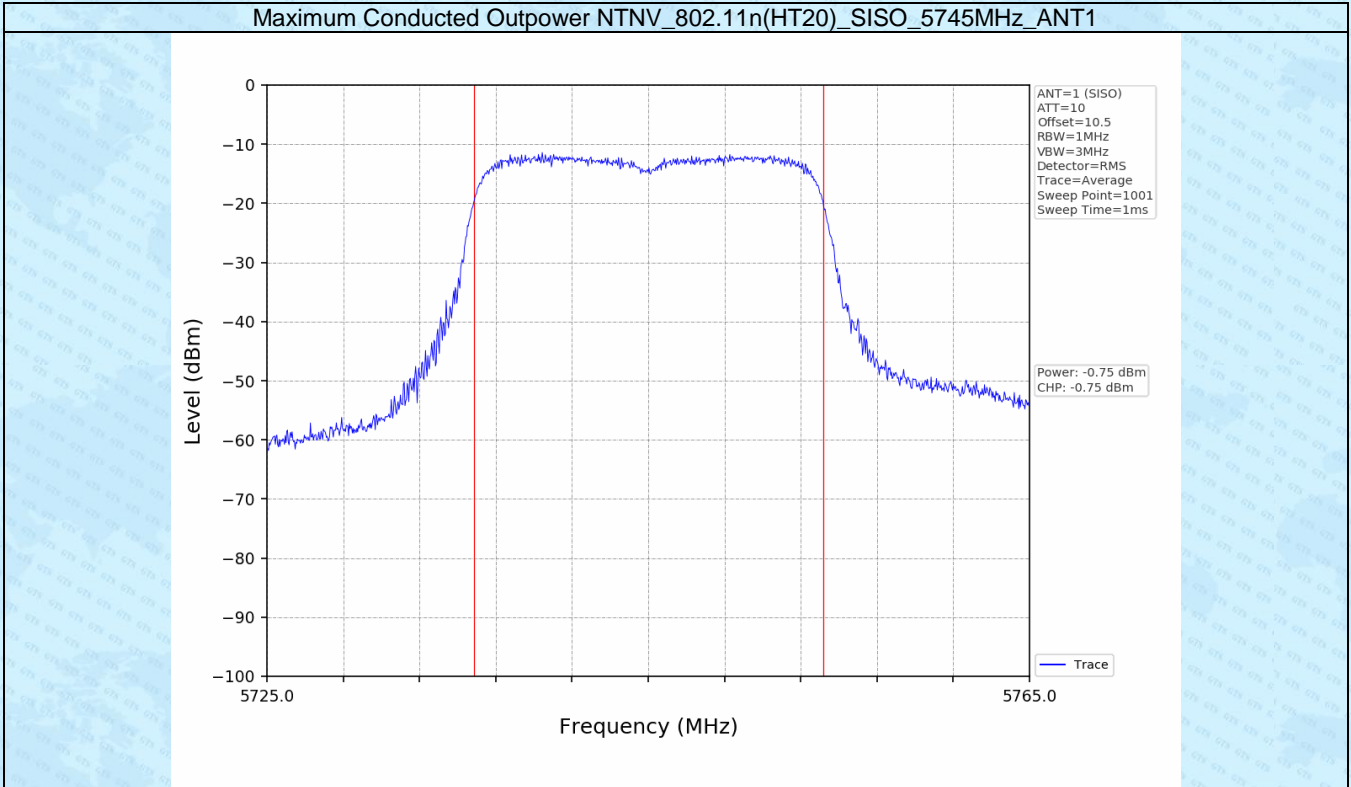
#### 3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11n(HT20)	5745.0	SISO	-0.75	≤30.00	PASS
	5785.0	SISO	3.19	≤30.00	PASS
	5805.0	SISO	1.85	≤30.00	PASS
802.11ac(VHT20)	5745.0	SISO	3.08	≤30.00	PASS
	5785.0	SISO	2.41	≤30.00	PASS
	5805.0	SISO	1.79	≤30.00	PASS

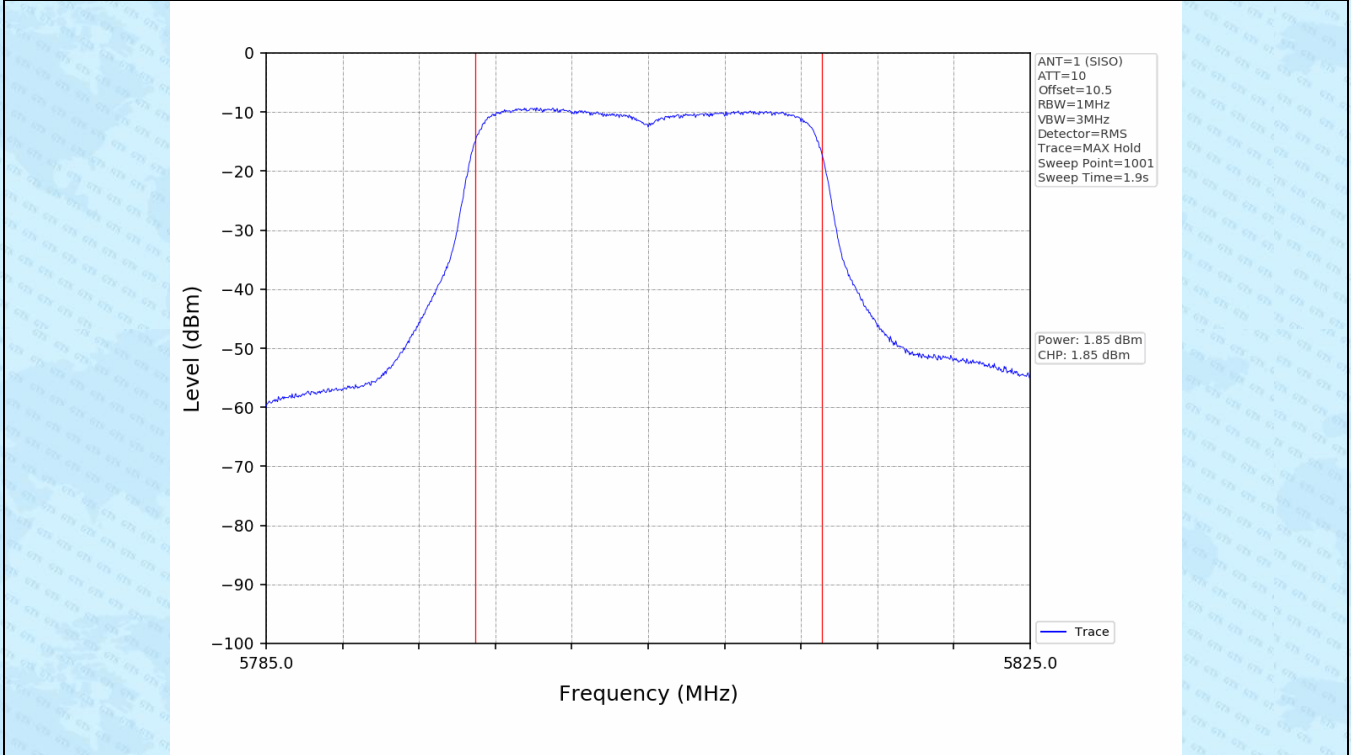
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 2		
802.11n(HT20)	5745.0	SISO	3.51	≤30.00	PASS
	5785.0	SISO	4.22	≤30.00	PASS
	5805.0	SISO	5.22	≤30.00	PASS
802.11ac(VHT20)	5745.0	SISO	2.99	≤30.00	PASS
	5785.0	SISO	4.19	≤30.00	PASS
	5805.0	SISO	4.83	≤30.00	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
802.11n(HT20)	5745.0	MIMO	4.89	≤30.00	PASS
	5785.0	MIMO	6.75	≤30.00	PASS
	5805.0	MIMO	6.86	≤30.00	PASS
802.11ac(VHT20)	5745.0	MIMO	6.05	≤30.00	PASS
	5785.0	MIMO	6.40	≤30.00	PASS
	5805.0	MIMO	6.58	≤30.00	PASS

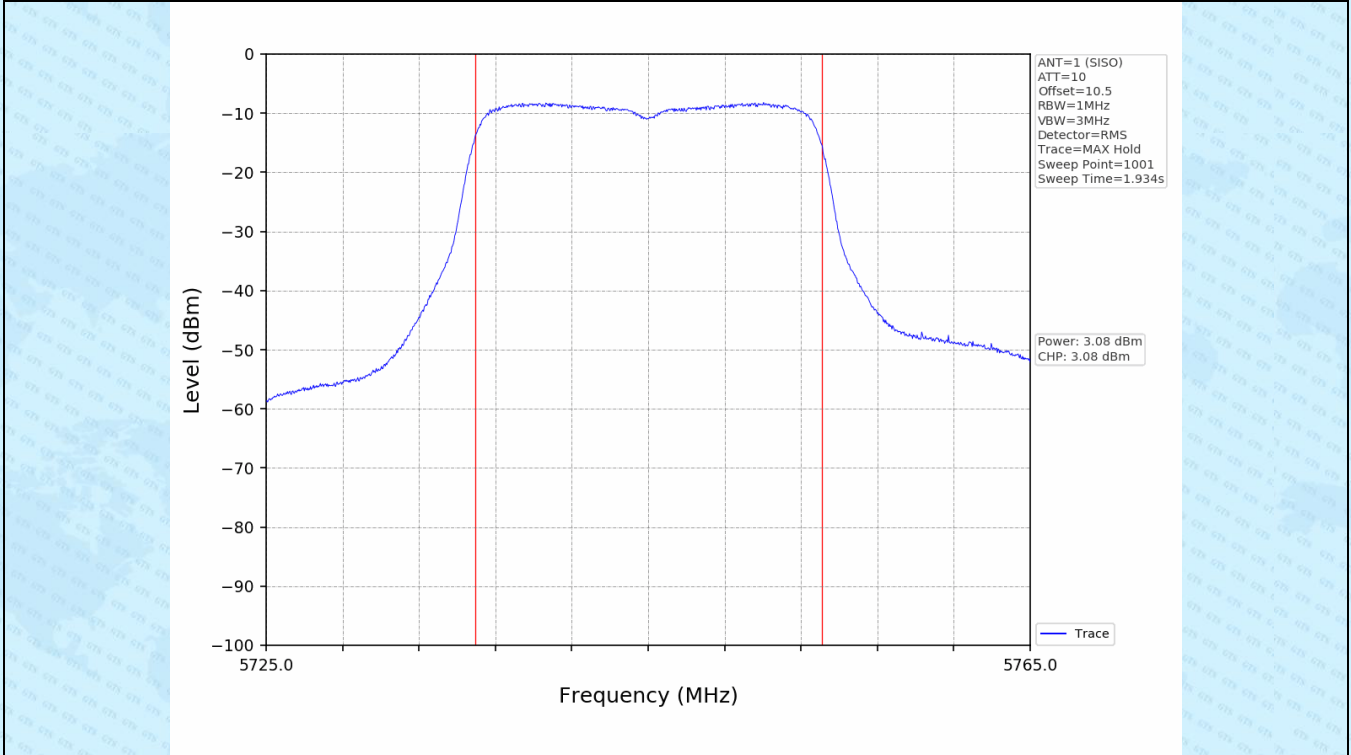
### 3.2 Test Graph



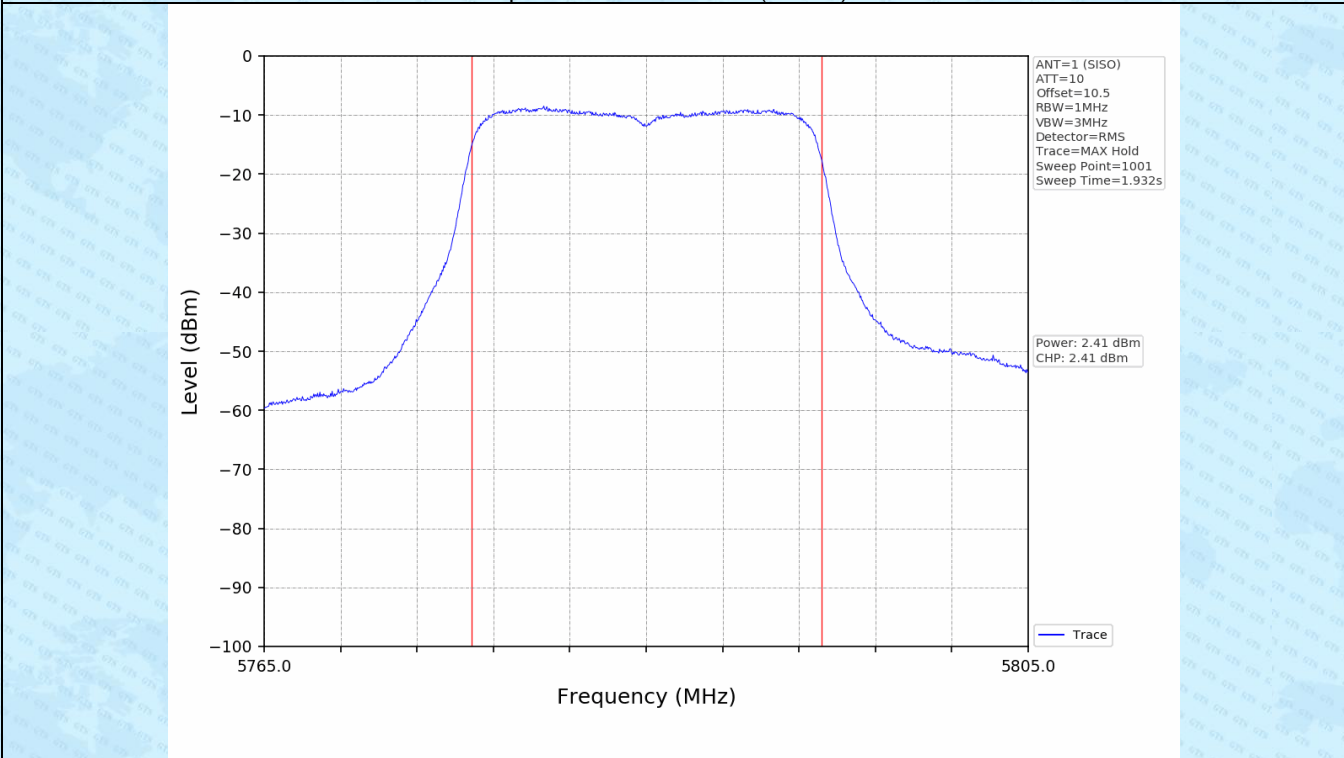
Maximum Conducted Outpower NTN\_V\_802.11n(HT20)\_SISO\_5805MHz\_ANT1



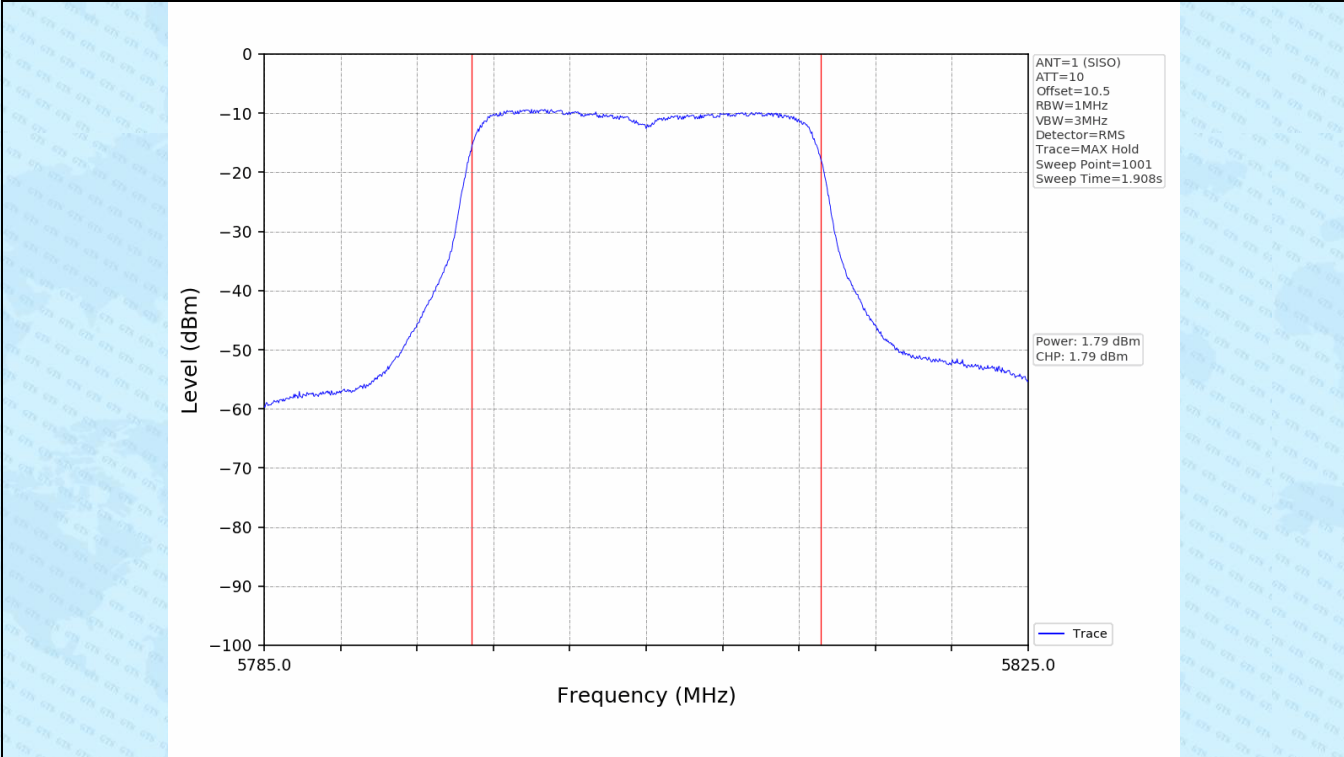
Maximum Conducted Outpower NTN\_V\_802.11ac(VHT20)\_SISO\_5745MHz\_ANT1



Maximum Conducted Outpower NTV\_802.11ac(VHT20)\_SISO\_5785MHz\_ANT1

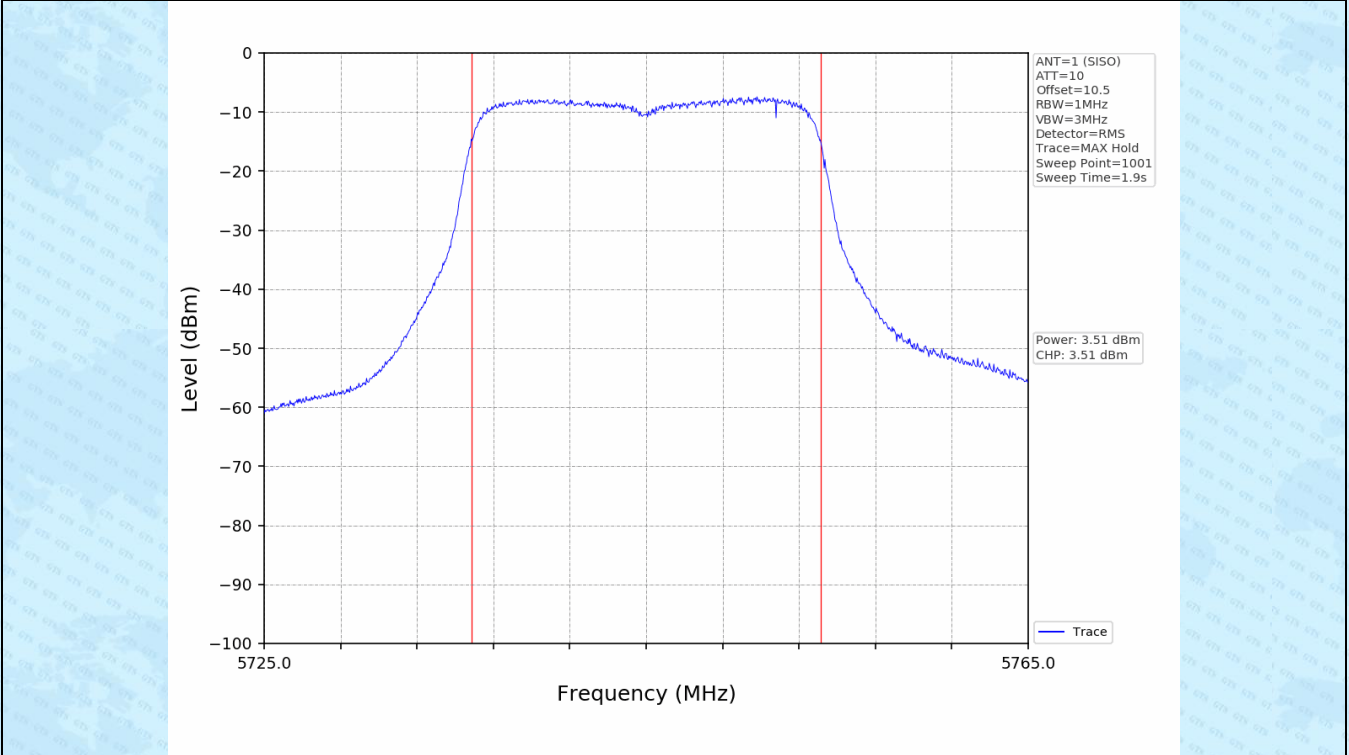


Maximum Conducted Outpower NTV\_802.11ac(VHT20)\_SISO\_5805MHz\_ANT1

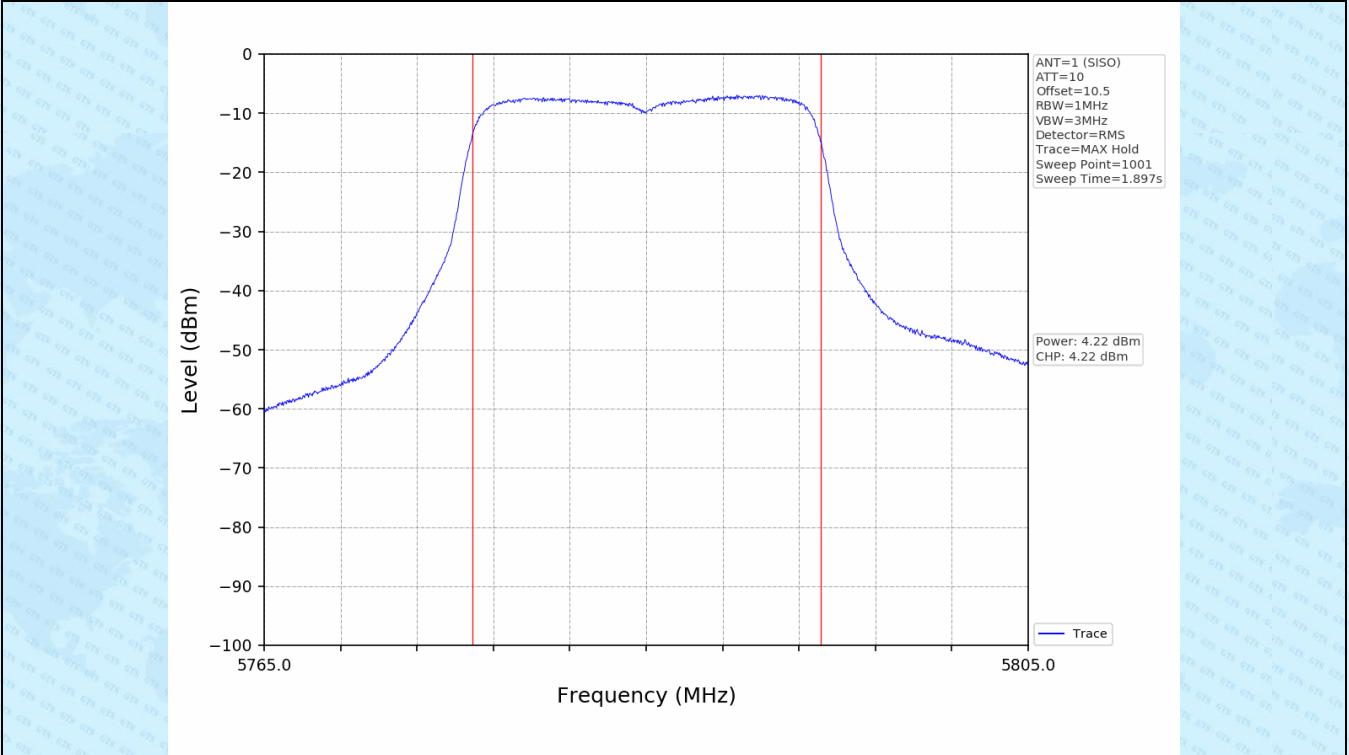




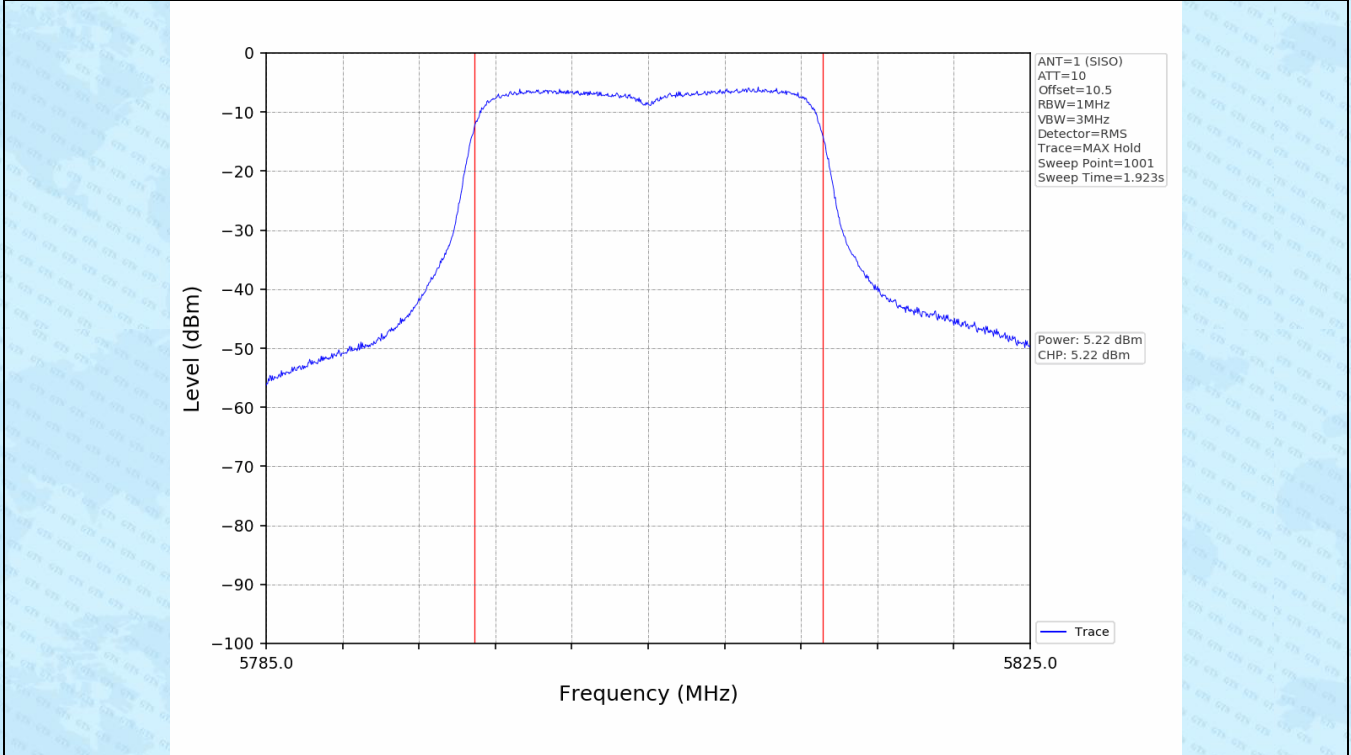
Maximum Conducted Outpower NTN\_V\_802.11n(HT20)\_SISO\_5745MHz\_ANT2



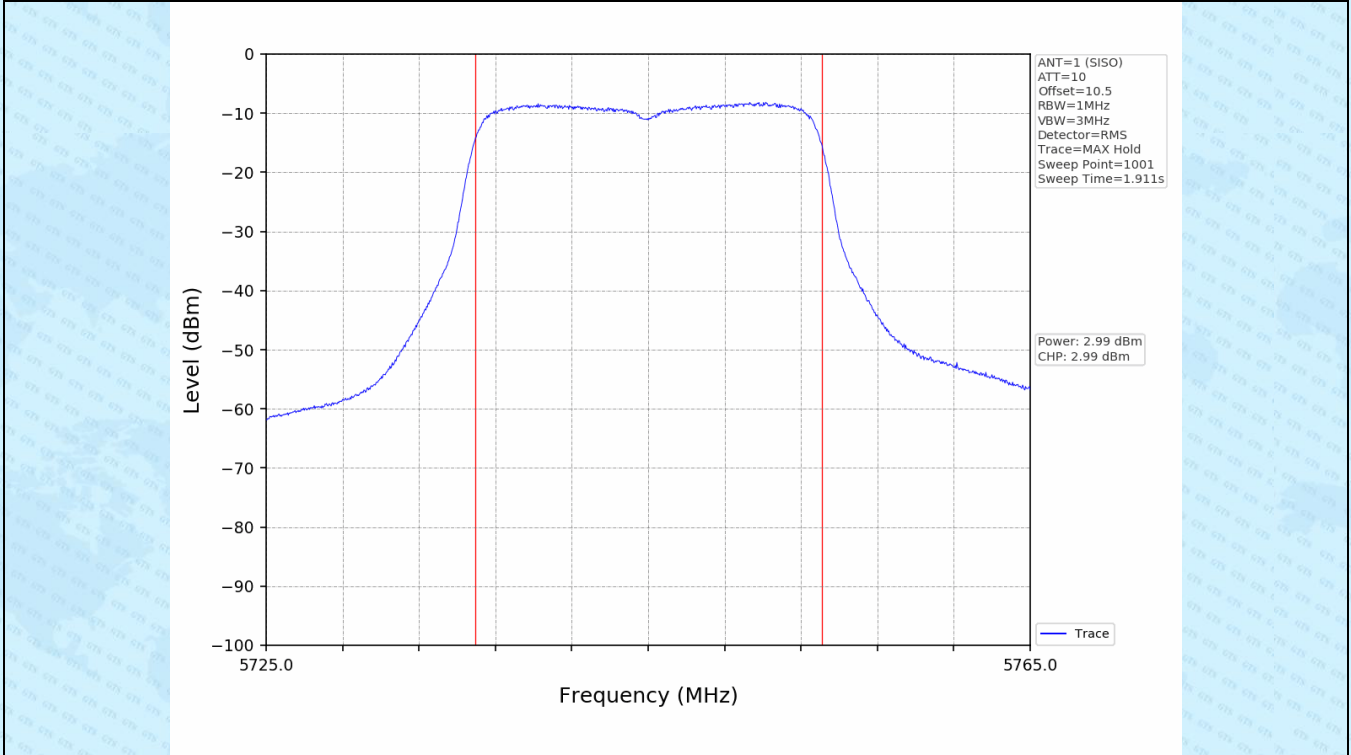
Maximum Conducted Outpower NTN\_V\_802.11n(HT20)\_SISO\_5785MHz\_ANT2



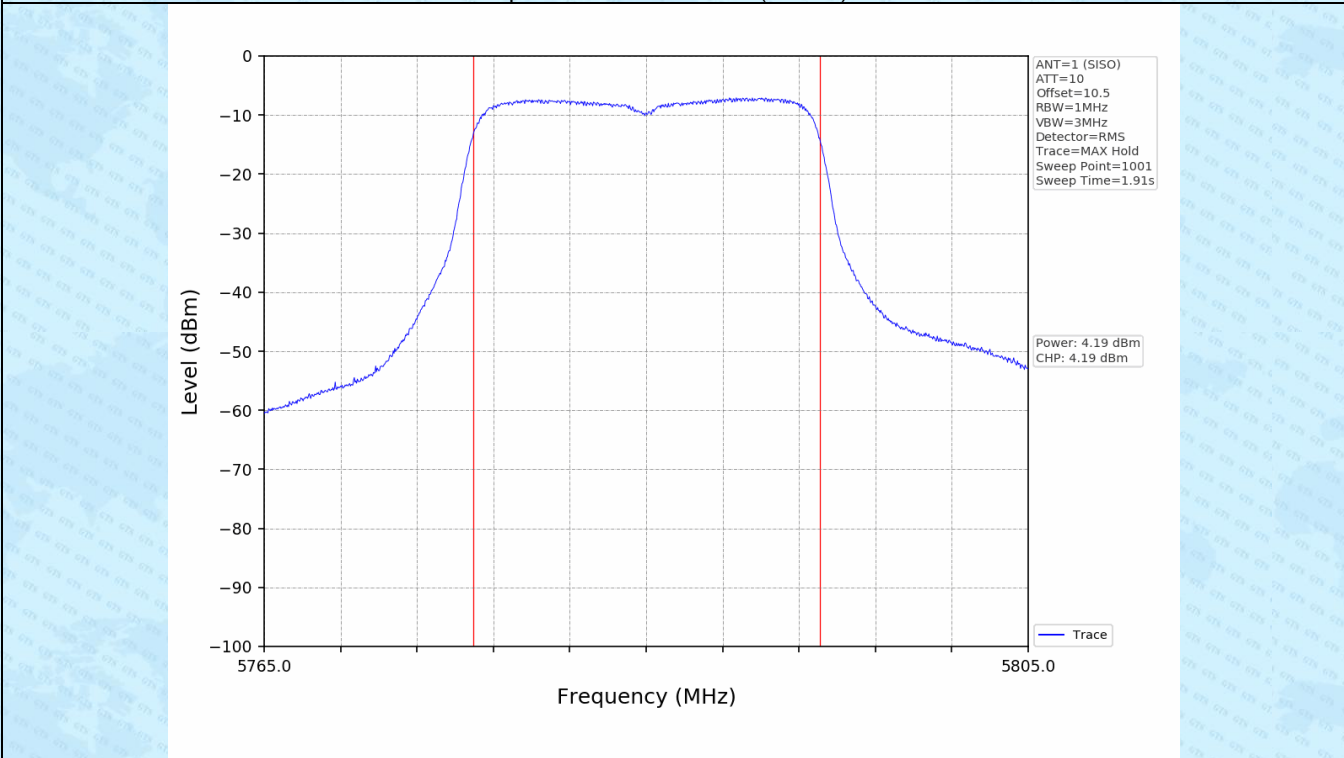
Maximum Conducted Outpower NTN\_V\_802.11n(HT20)\_SISO\_5805MHz\_ANT2



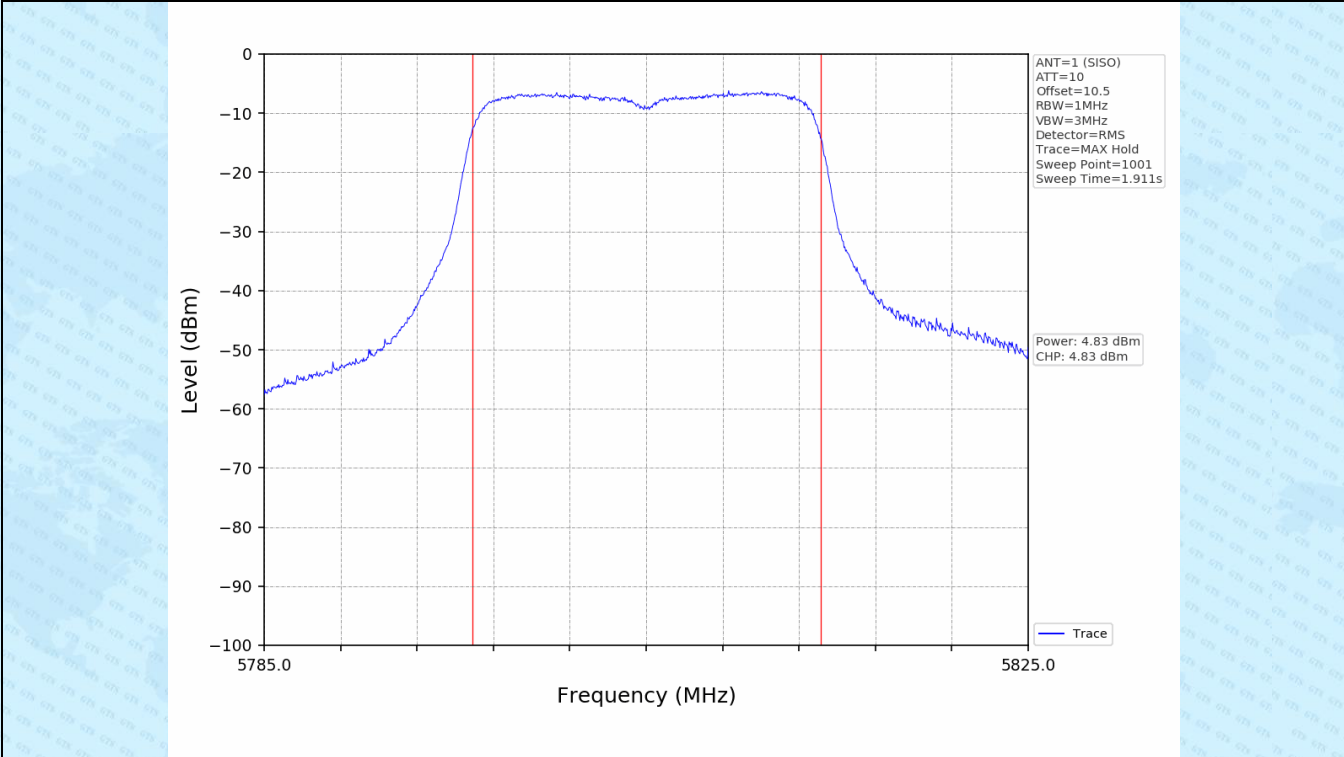
Maximum Conducted Outpower NTN\_V\_802.11ac(VHT20)\_SISO\_5745MHz\_ANT2



Maximum Conducted Outpower NTV\_802.11ac(VHT20)\_SISO\_5785MHz\_ANT2



Maximum Conducted Outpower NTV\_802.11ac(VHT20)\_SISO\_5805MHz\_ANT2



## 4. Maximum Power Spectral Density (PSD)

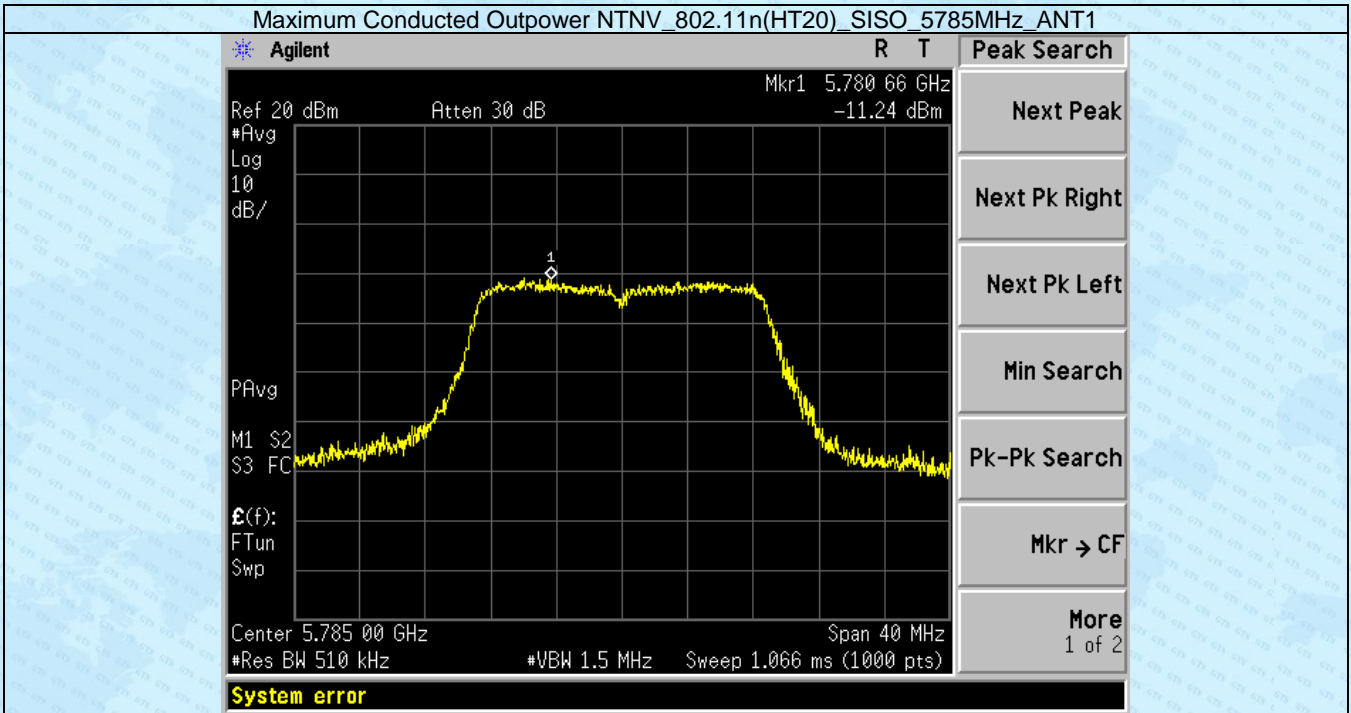
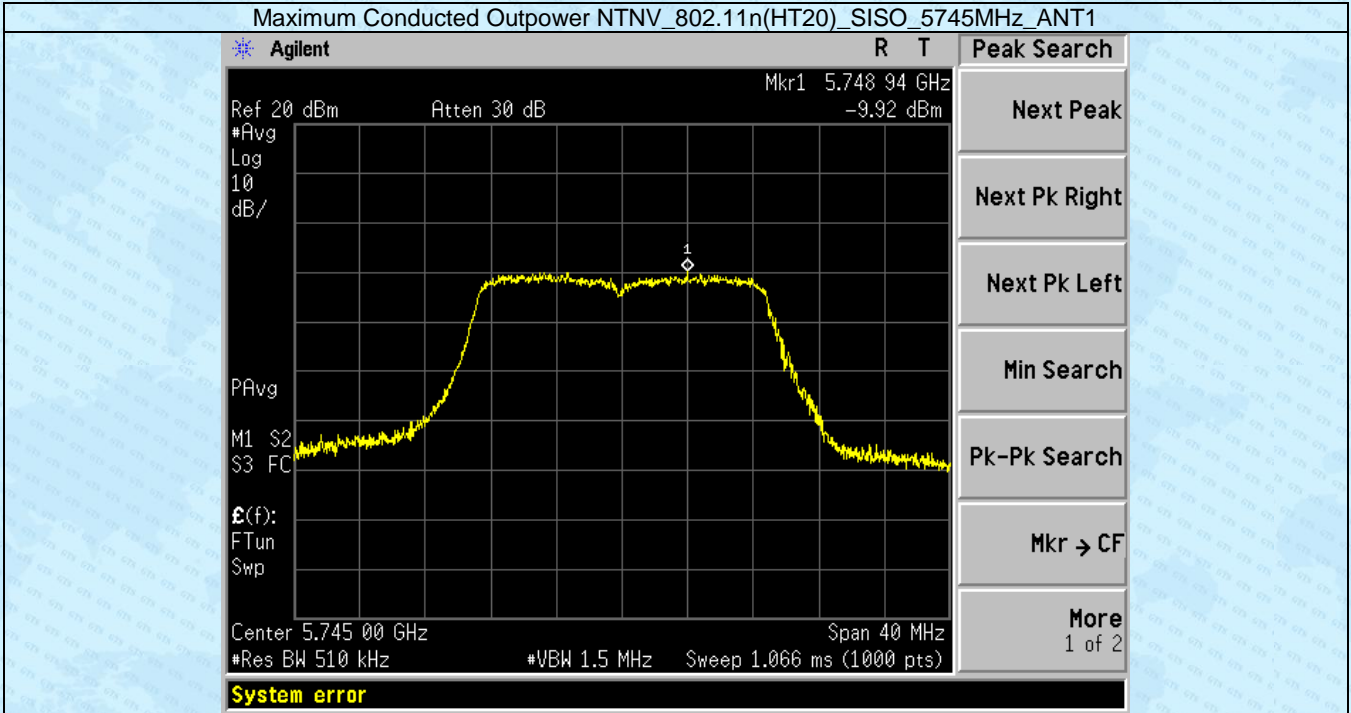
### 4.1 Test Result

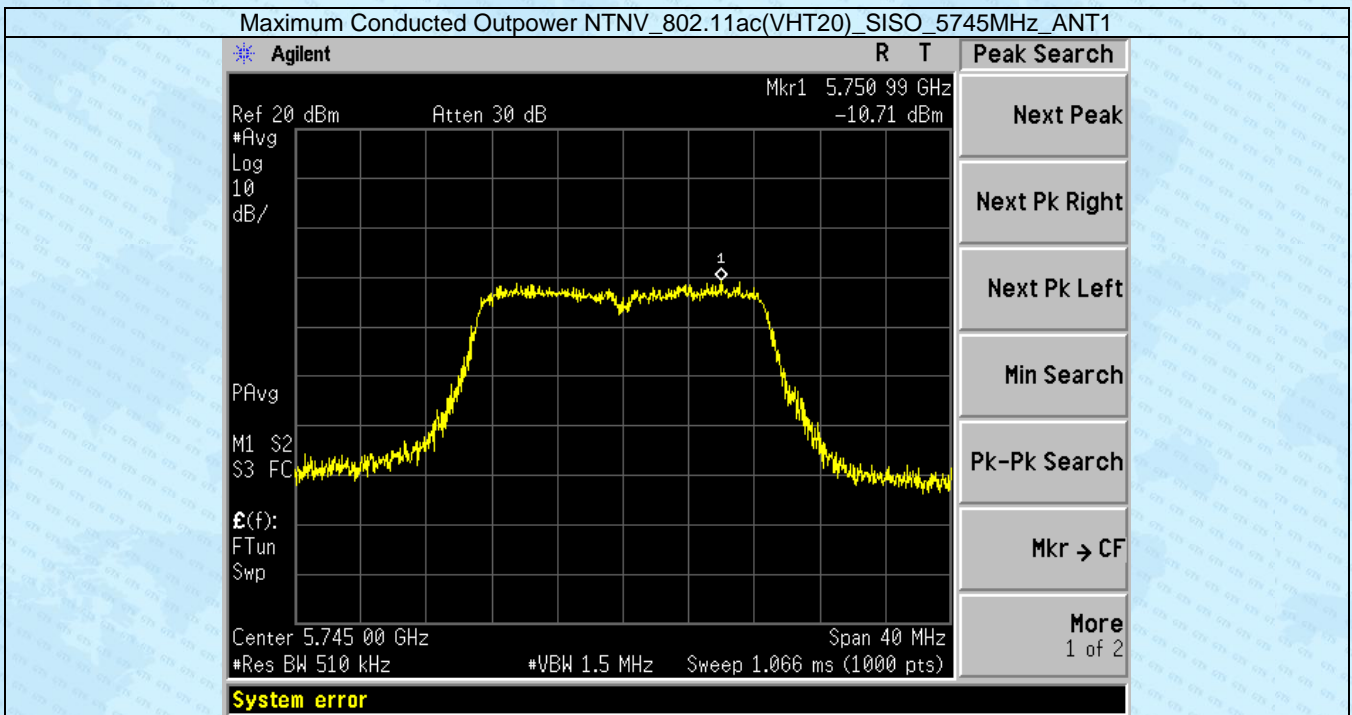
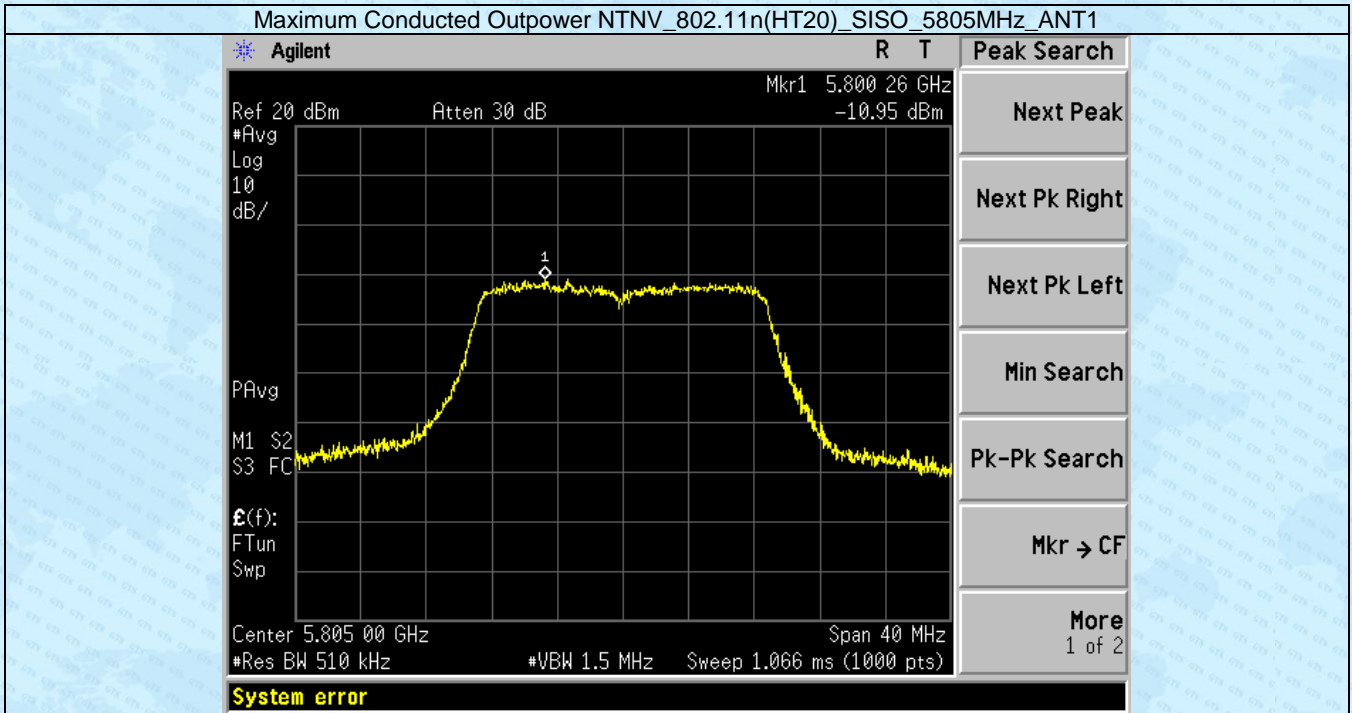
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11n(HT20)	5745.0	SISO	-9.92	≤30	PASS
	5785.0	SISO	-11.24	≤30	PASS
	5805.0	SISO	-10.95	≤30	PASS
802.11ac(VHT20)	5745.0	SISO	-10.71	≤30	PASS
	5785.0	SISO	-11.54	≤30	PASS
	5805.0	SISO	-11.81	≤30	PASS

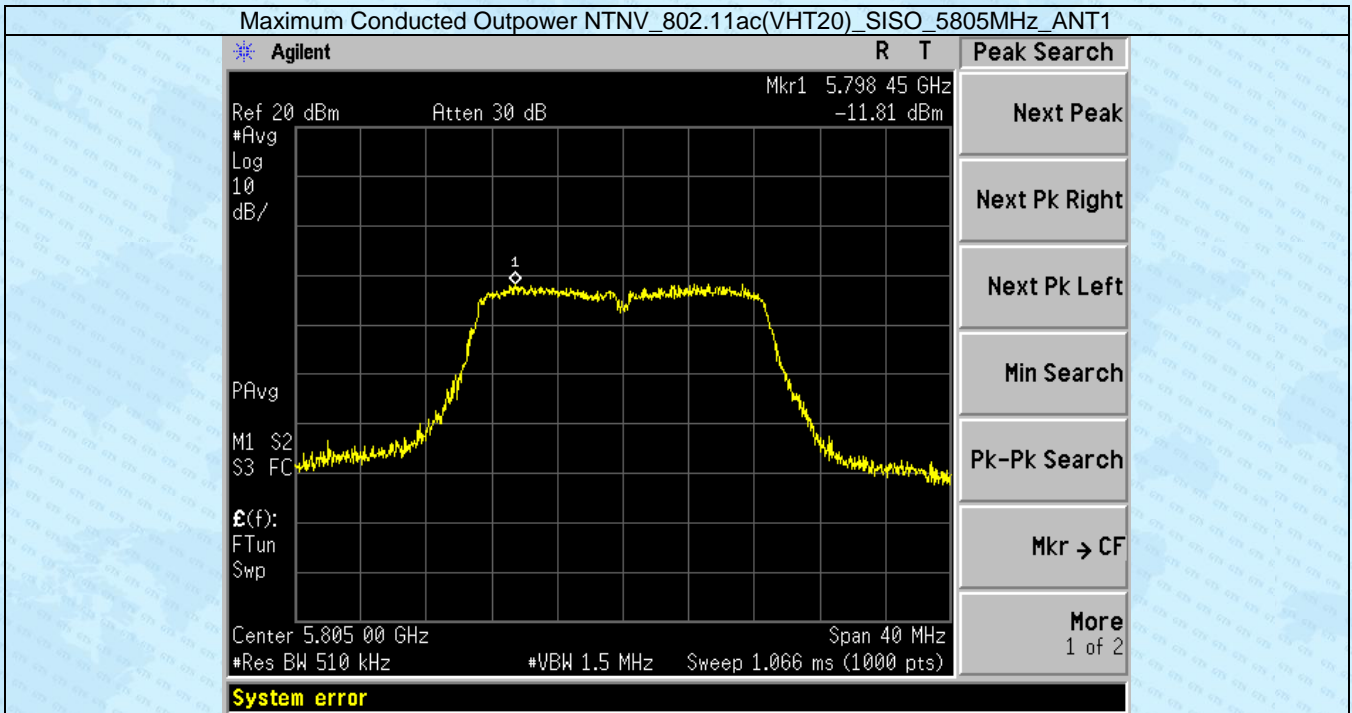
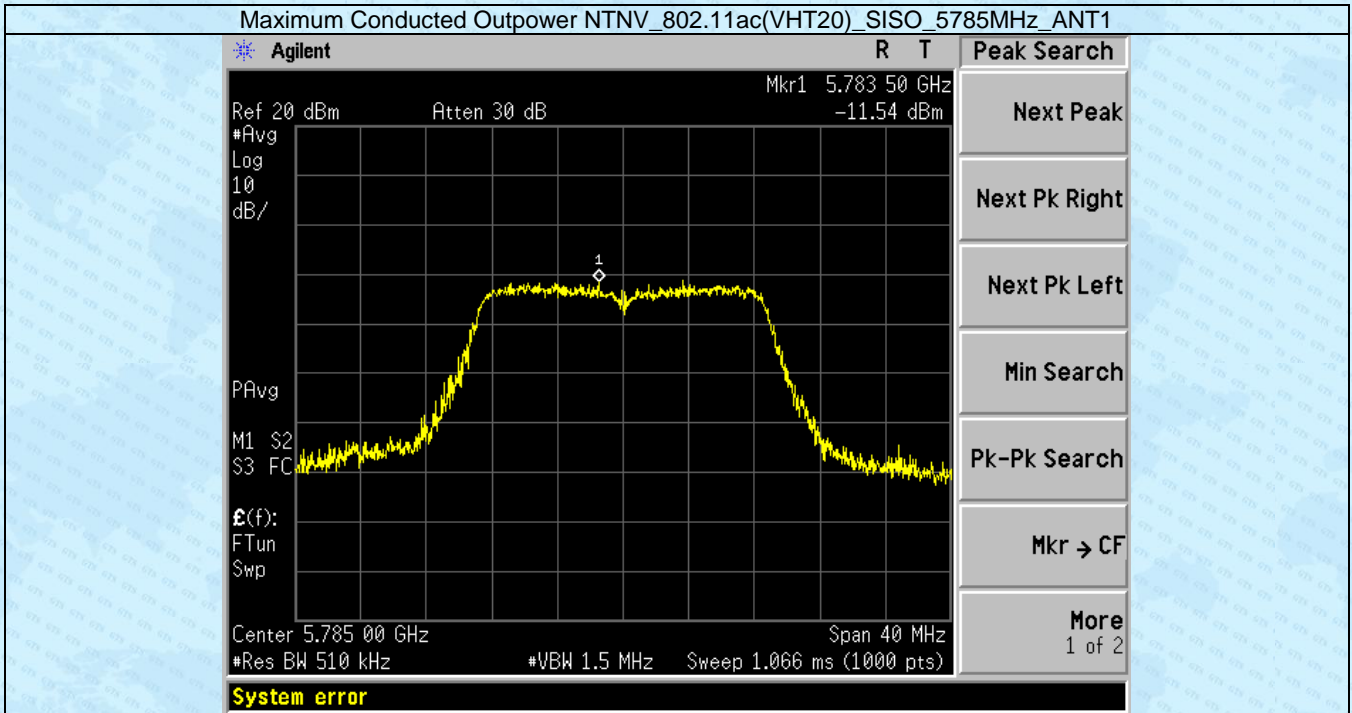
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 2		
802.11n(HT20)	5745.0	SISO	-8.87	≤30	PASS
	5785.0	SISO	-10.17	≤30	PASS
	5805.0	SISO	-10.15	≤30	PASS
802.11ac(VHT20)	5745.0	SISO	-9.92	≤30	PASS
	5785.0	SISO	-10.58	≤30	PASS
	5805.0	SISO	-11.71	≤30	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
802.11n(HT20)	5745.0	MIMO	-6.35	≤30	PASS
	5785.0	MIMO	-7.66	≤30	PASS
	5805.0	MIMO	-7.52	≤30	PASS
802.11ac(VHT20)	5745.0	MIMO	-7.29	≤30	PASS
	5785.0	MIMO	-8.02	≤30	PASS
	5805.0	MIMO	-8.75	≤30	PASS

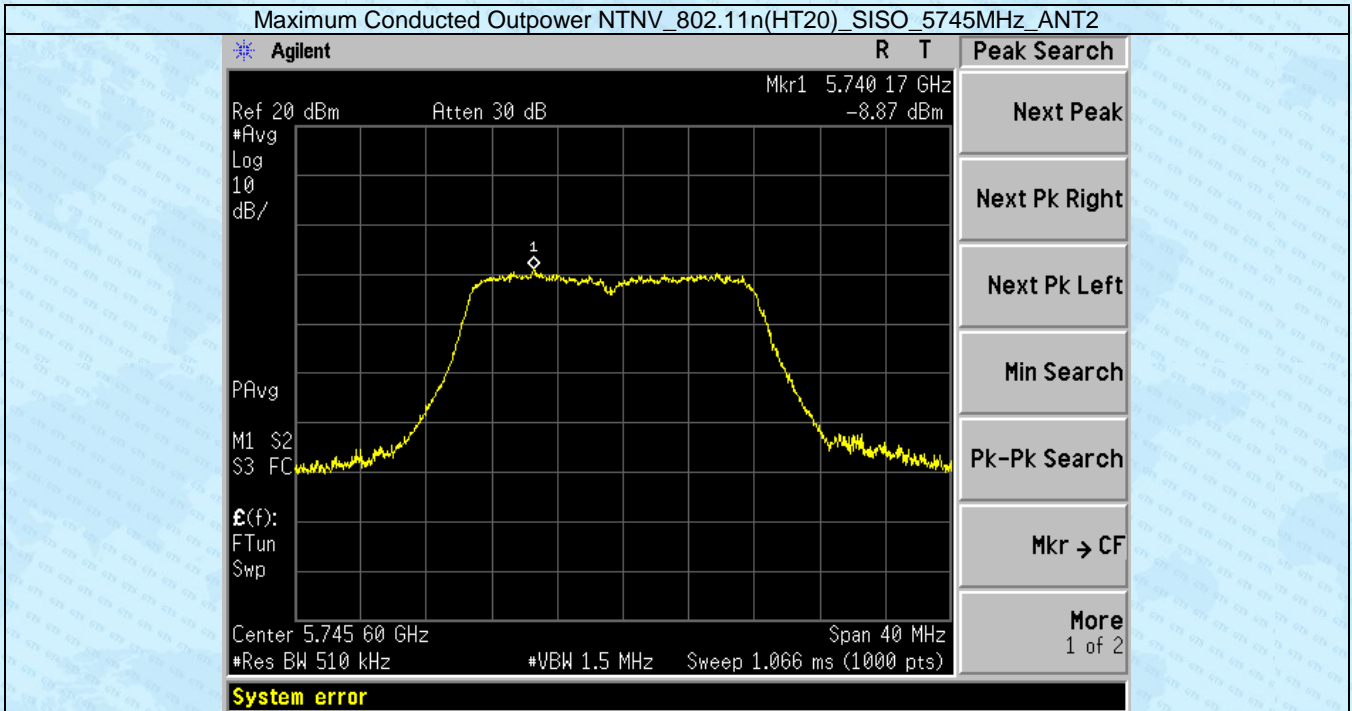
## 4.2 Test Graph



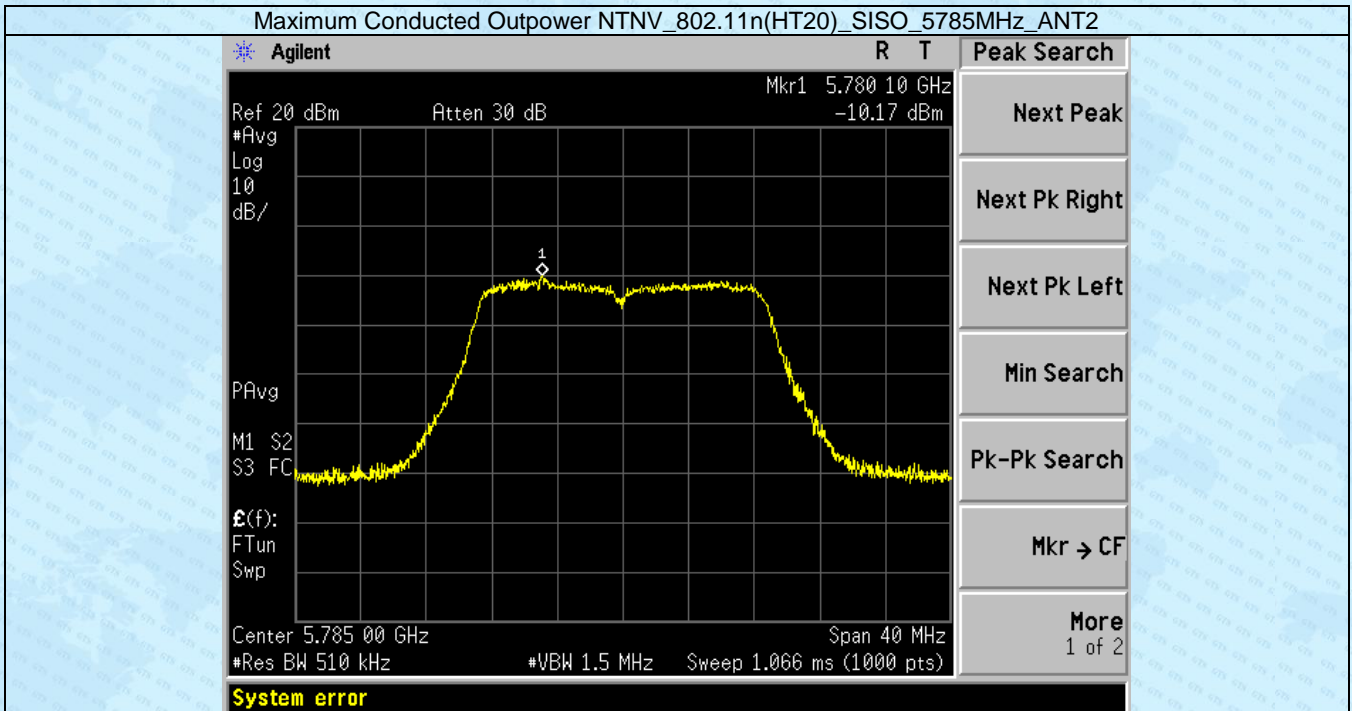




Maximum Conducted Outpower NTN<sub>V</sub>\_802.11n(HT20)\_SISO\_5745MHz\_ANT2

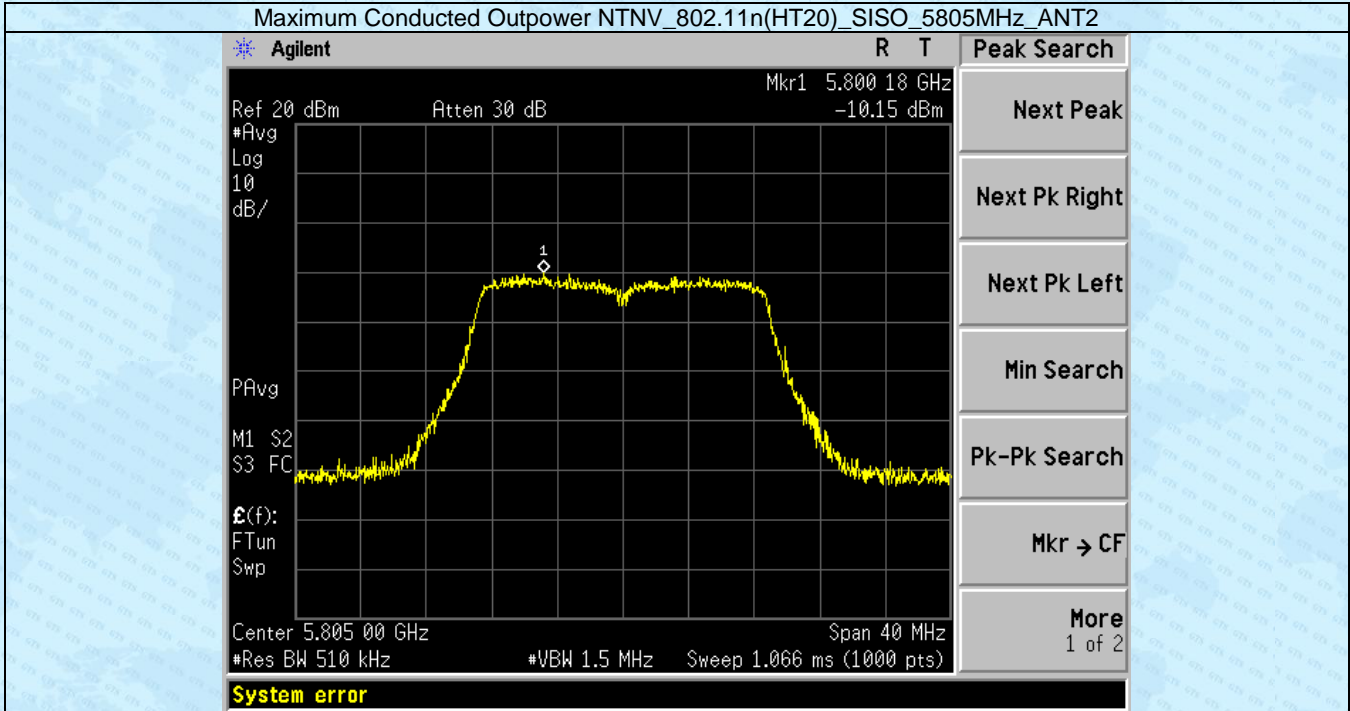


Maximum Conducted Outpower NTN<sub>V</sub>\_802.11n(HT20)\_SISO\_5785MHz\_ANT2

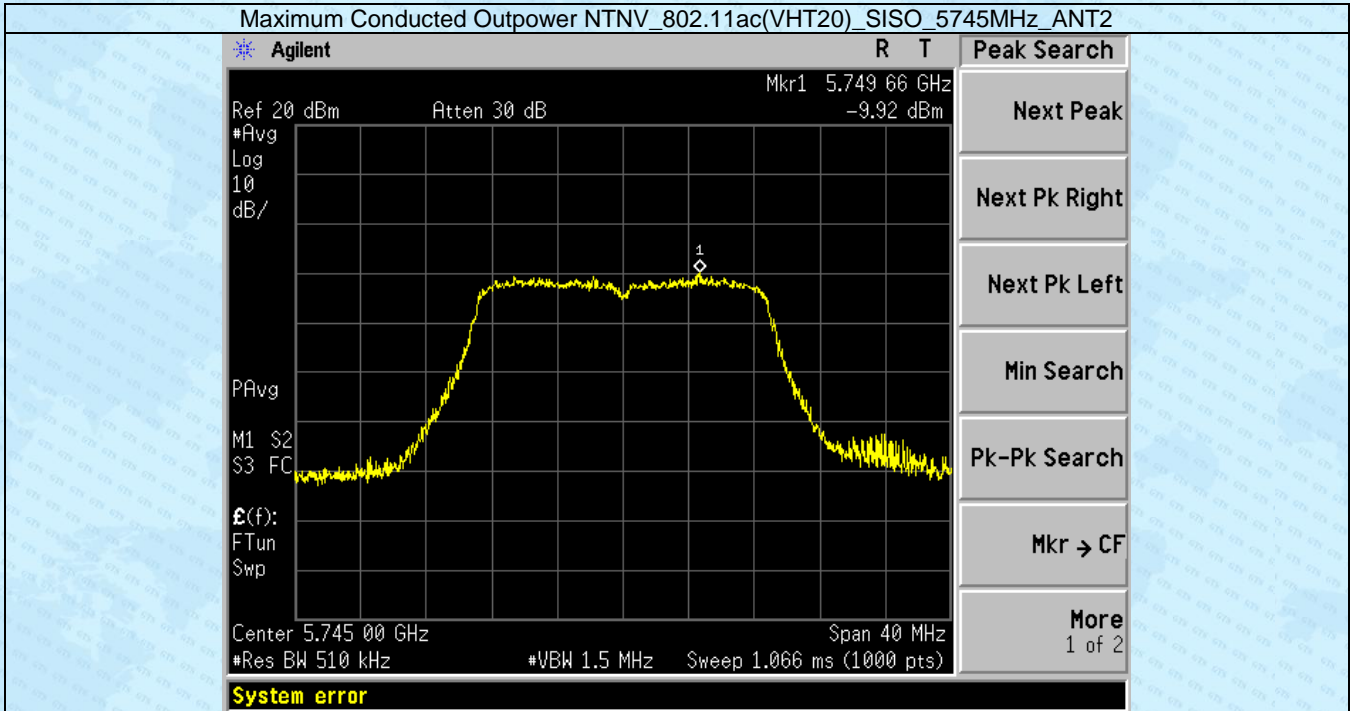


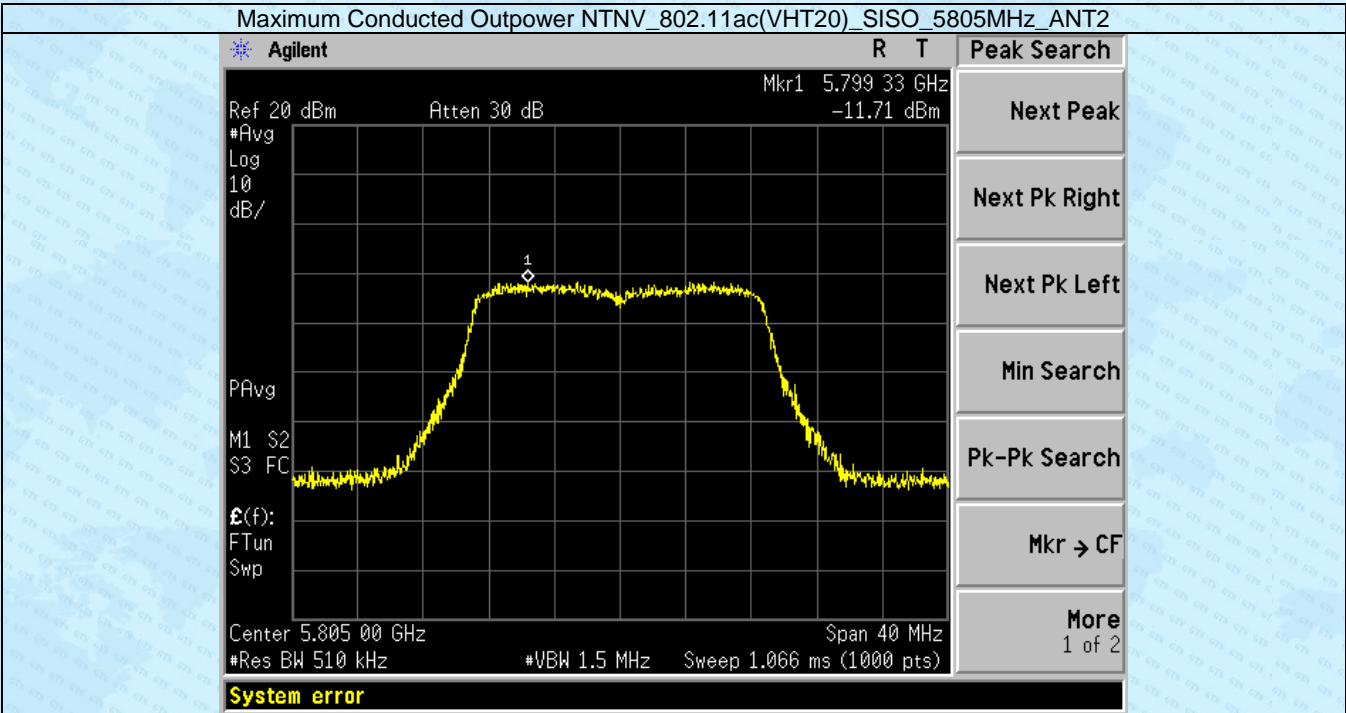
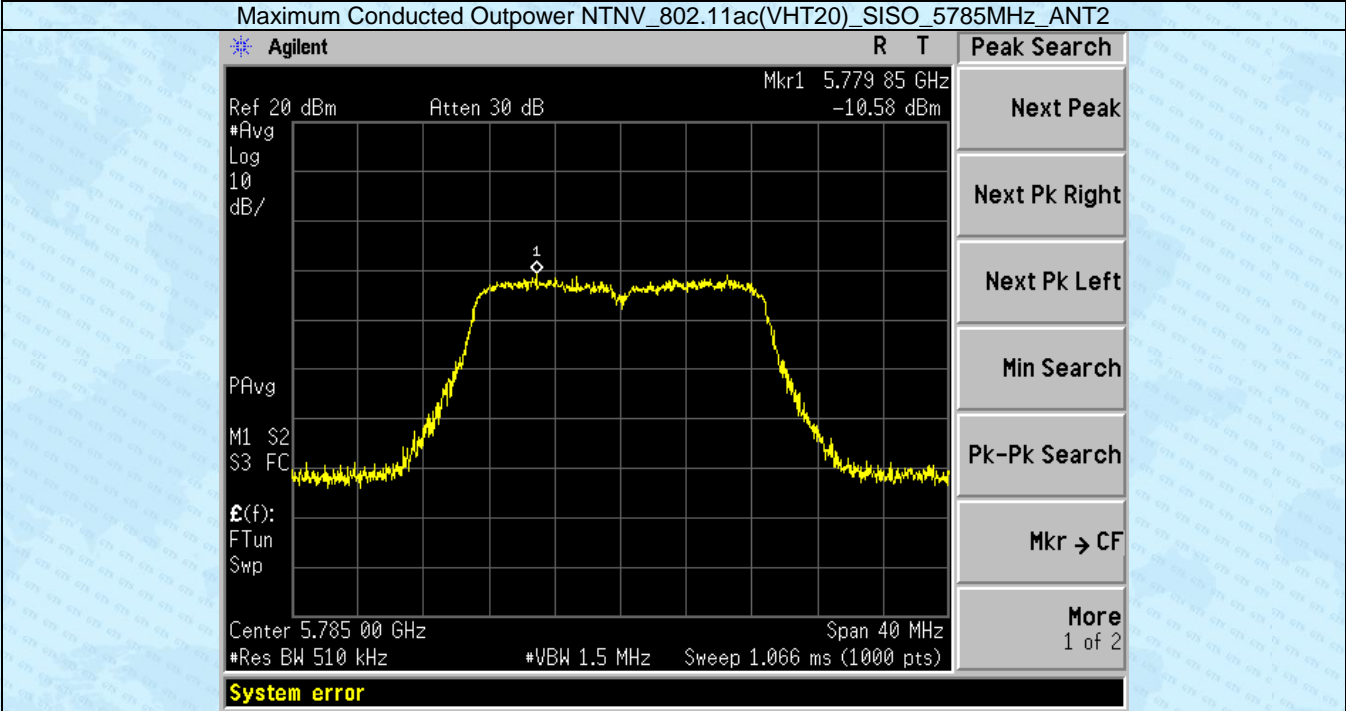


Maximum Conducted Outpower NTN\_V\_802.11n(HT20)\_SISO\_5805MHz\_ANT2



Maximum Conducted Outpower NTN\_V\_802.11ac(VHT20)\_SISO\_5745MHz\_ANT2





## 5. Frequency Stability

### 5.1 Test Result

Only shown the worst case

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	Carrier	5745.0	1	-8.88	$\leq 20$	PASS
		5785.0	1	-8.82	$\leq 20$	PASS
		5805.0	1	-8.79	$\leq 20$	PASS

-----End-----