

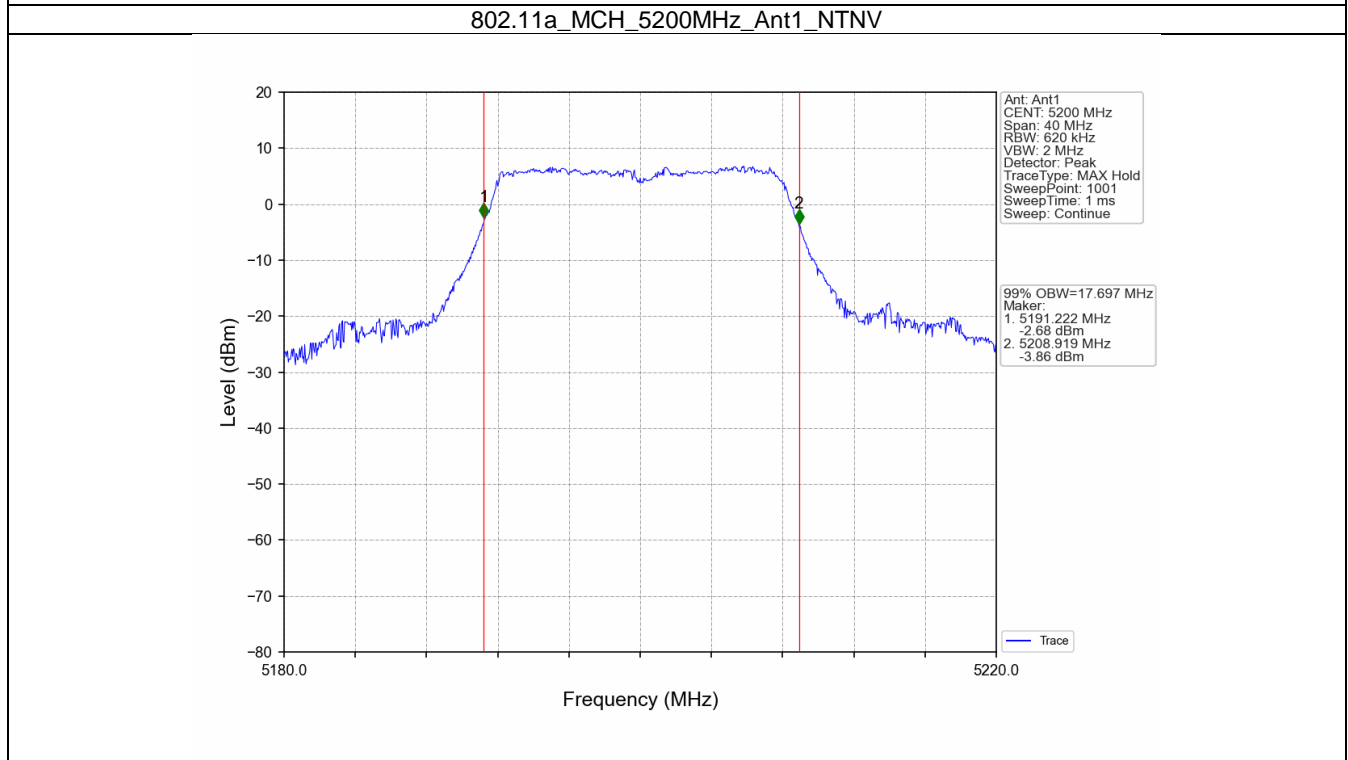
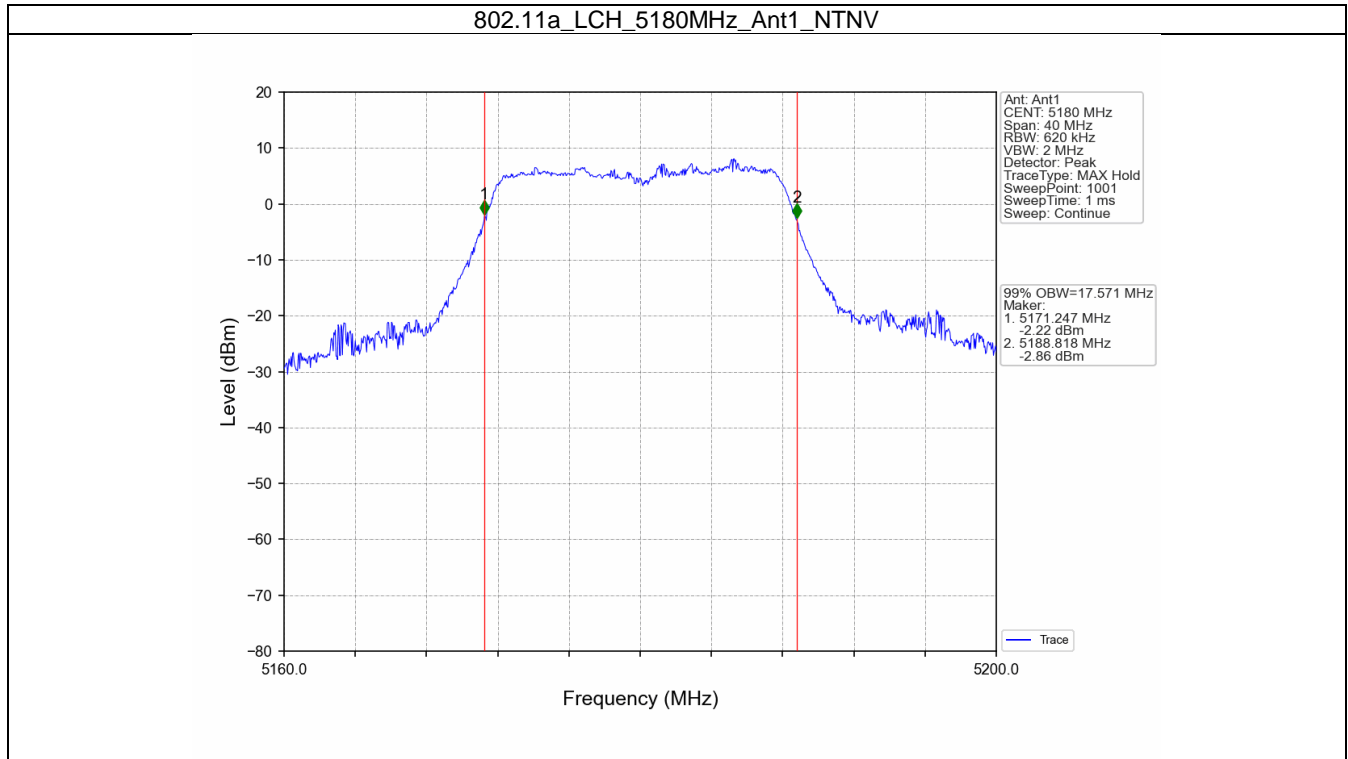
## 1. Bandwidth

### 1.1 OBW

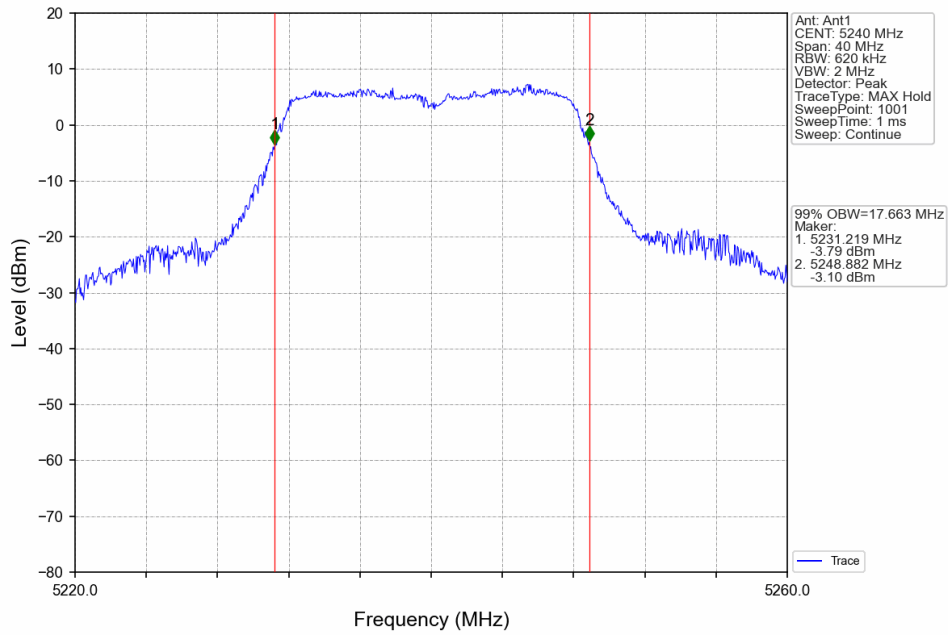
#### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.571	Pass
		5200	1	17.697	Pass
		5240	1	17.663	Pass
802.11n (HT20)	SISO	5180	1	18.744	Pass
		5200	1	18.627	Pass
		5240	1	18.602	Pass
802.11n (HT40)	SISO	5190	1	37.124	Pass
		5230	1	36.835	Pass
802.11ac (VHT20)	SISO	5180	1	18.711	Pass
		5200	1	18.500	Pass
		5240	1	18.320	Pass
802.11ac (VHT40)	SISO	5190	1	37.028	Pass
		5230	1	36.895	Pass
802.11ac (VHT80)	SISO	5210	1	76.831	Pass

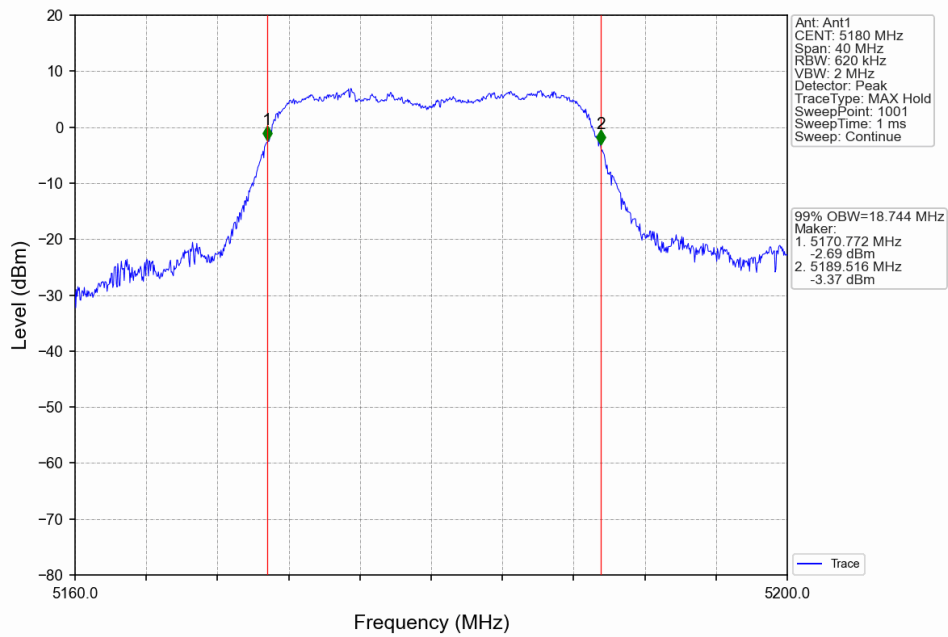
1.1.2 Test Graph



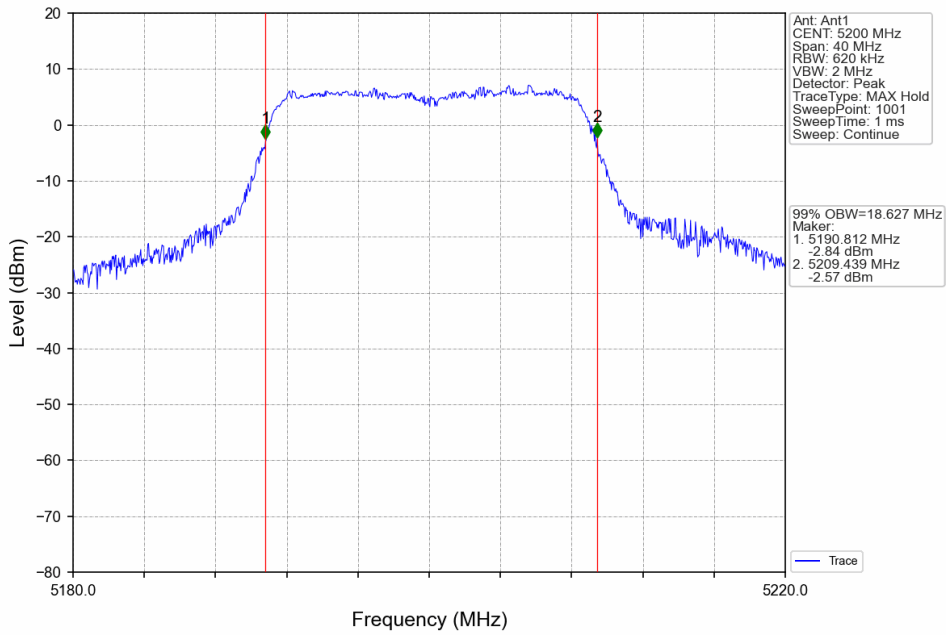
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



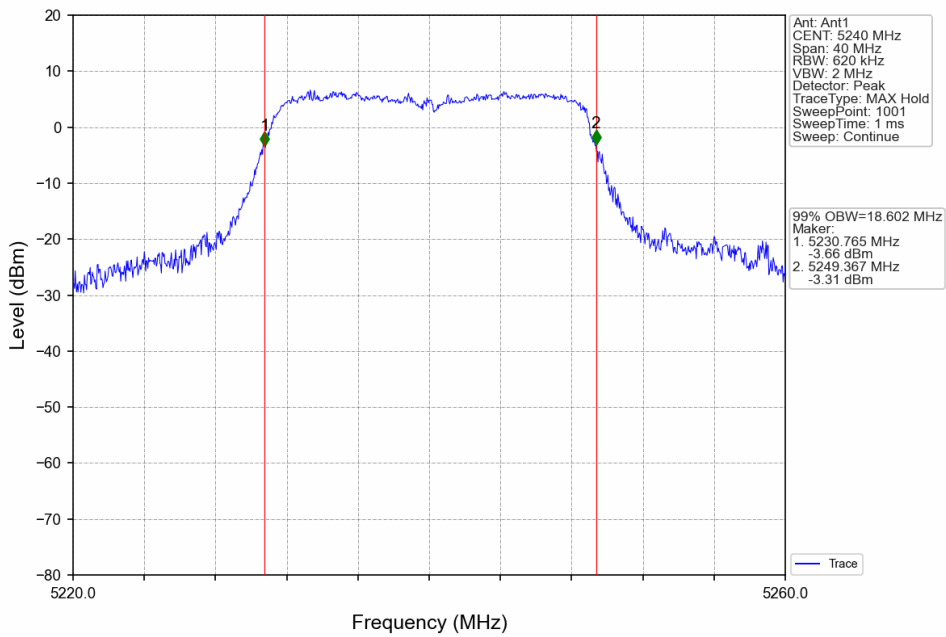
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



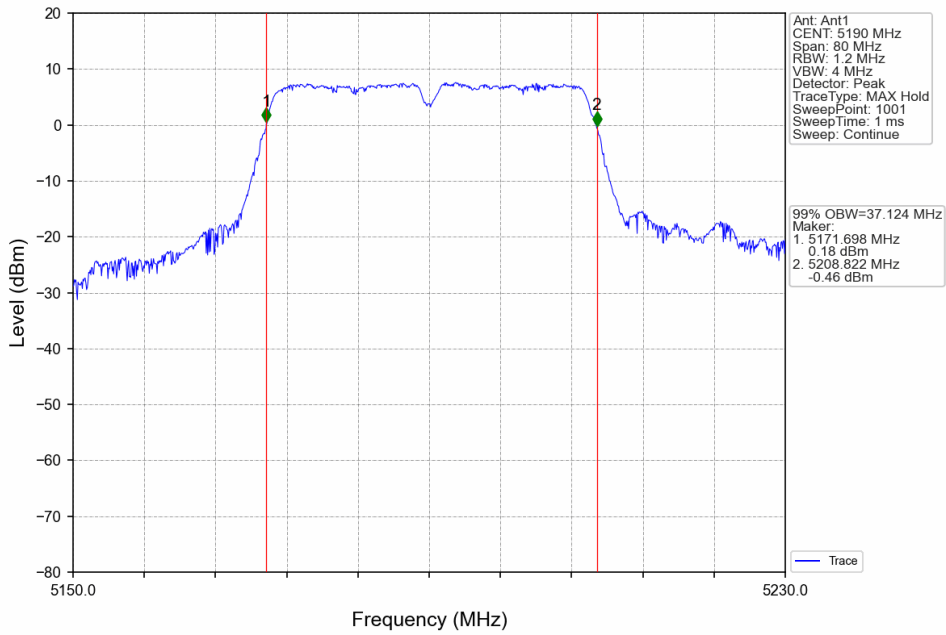
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



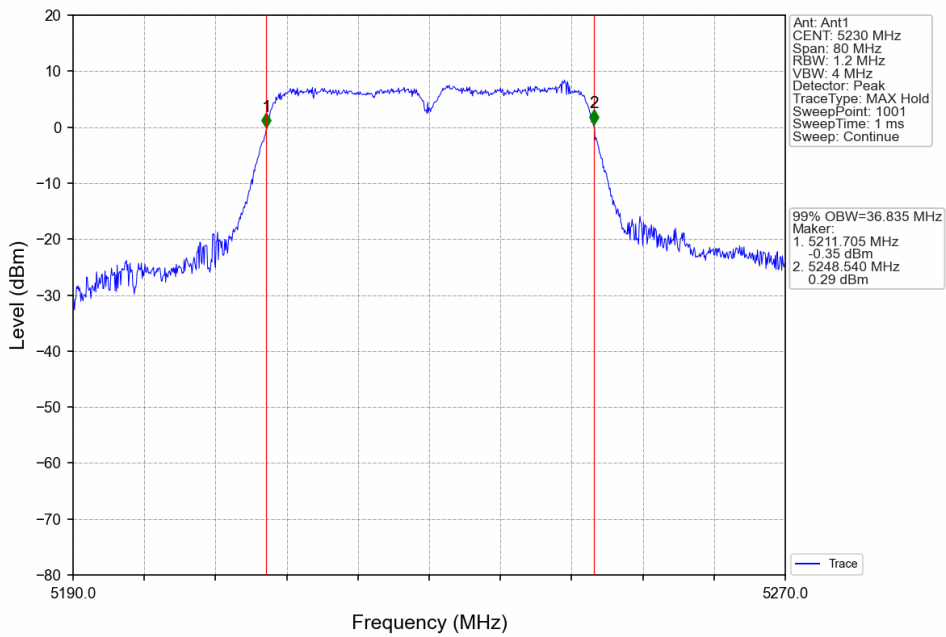
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



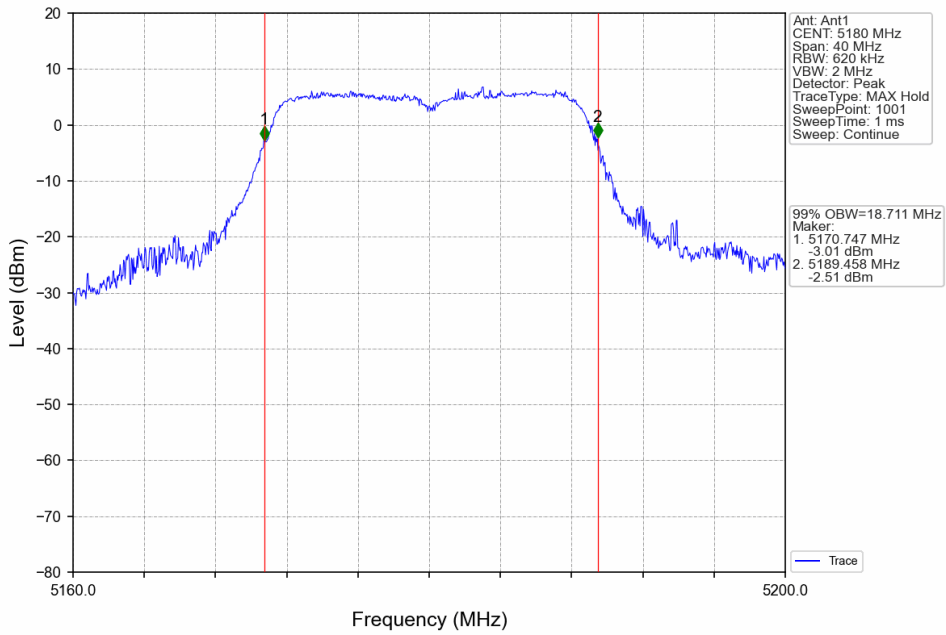
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



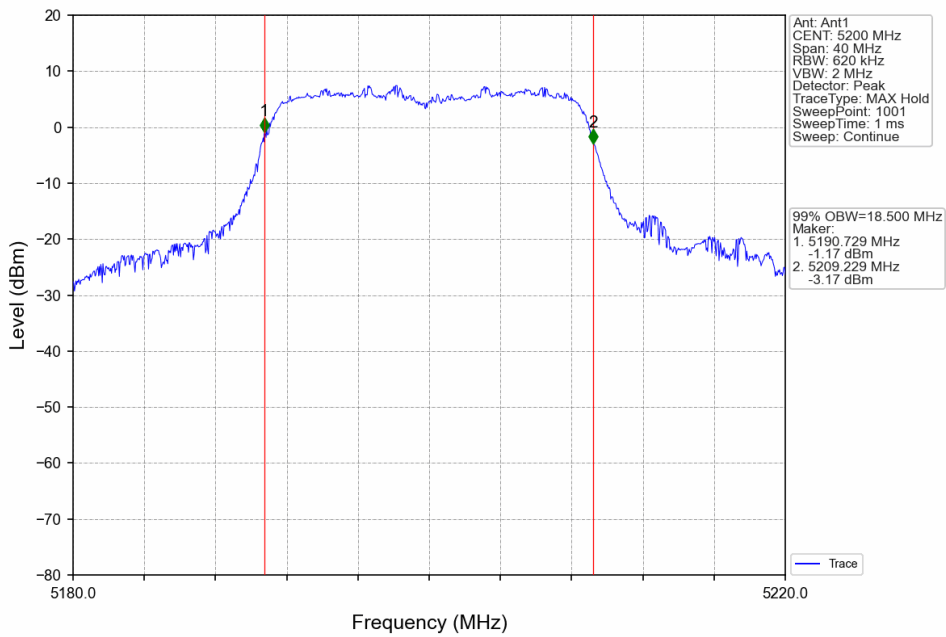
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



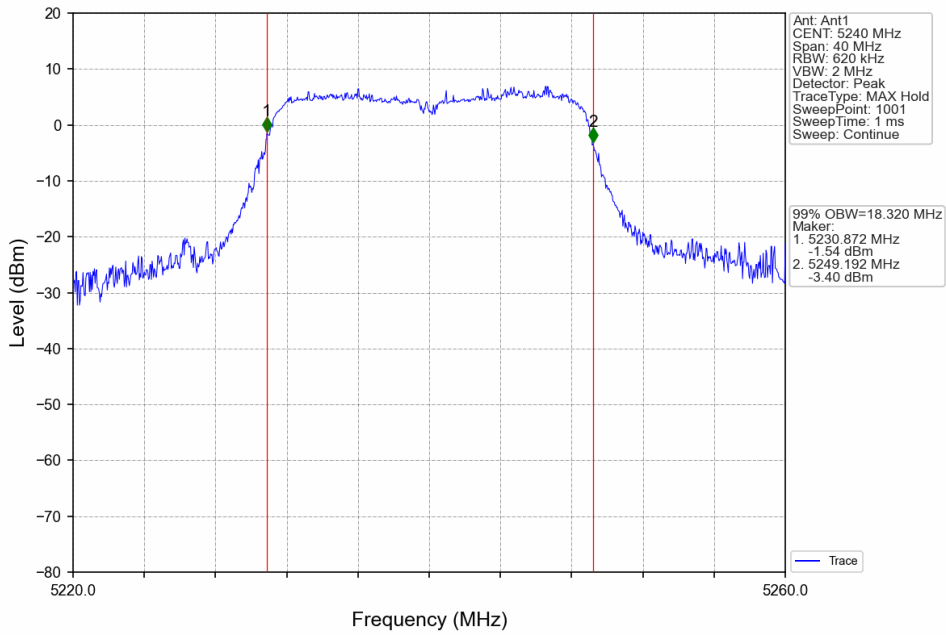
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



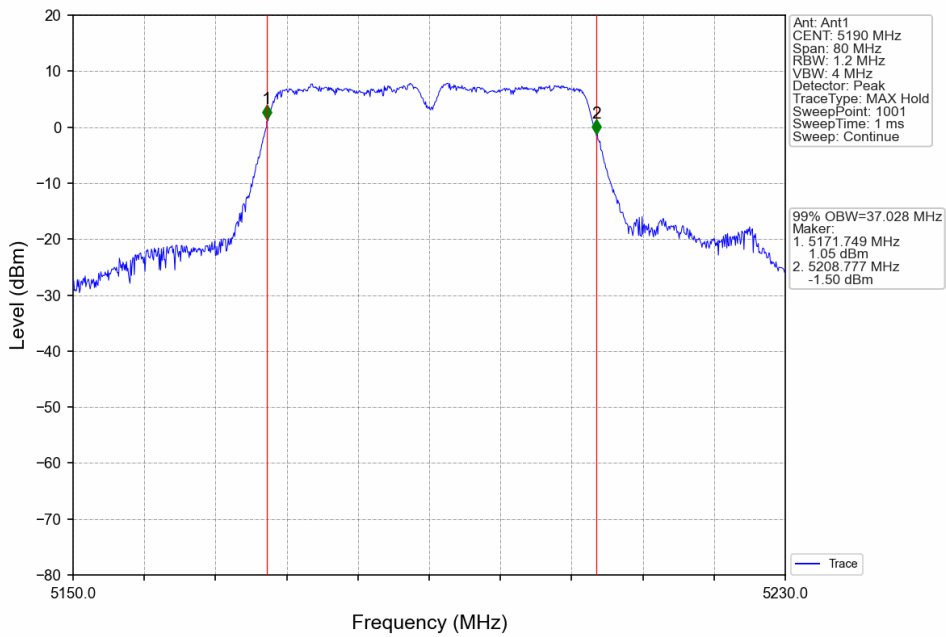
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



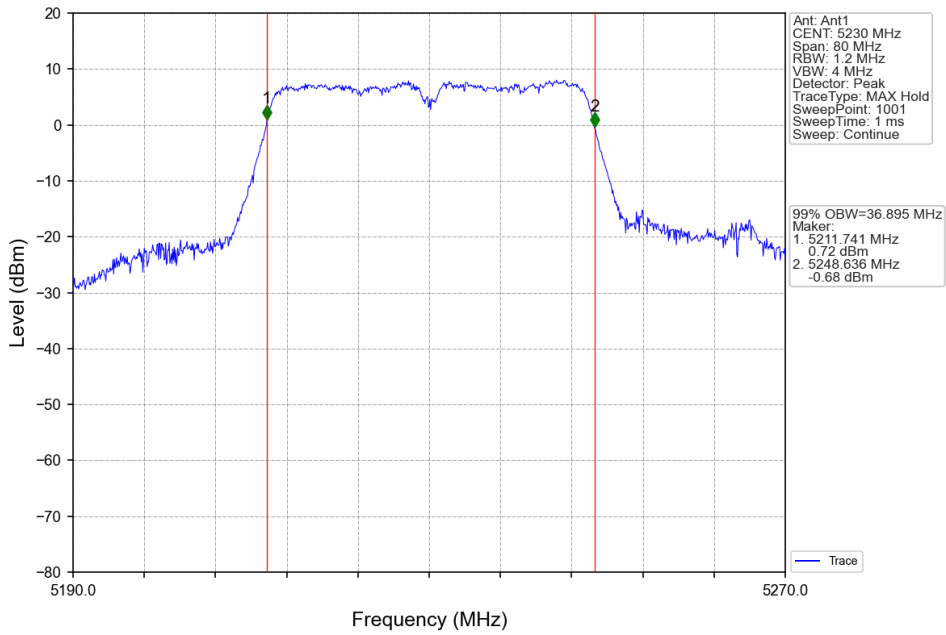
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



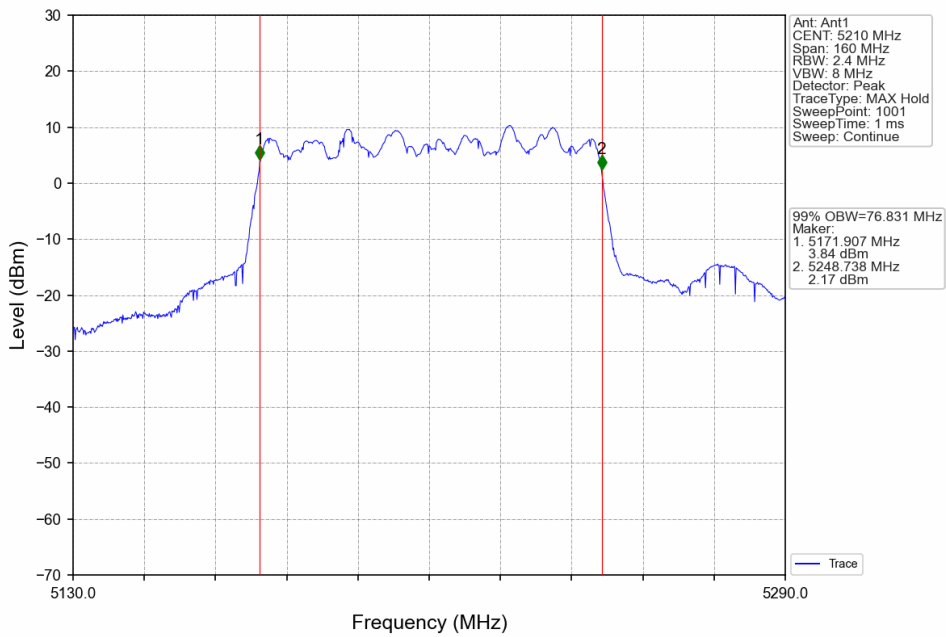
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



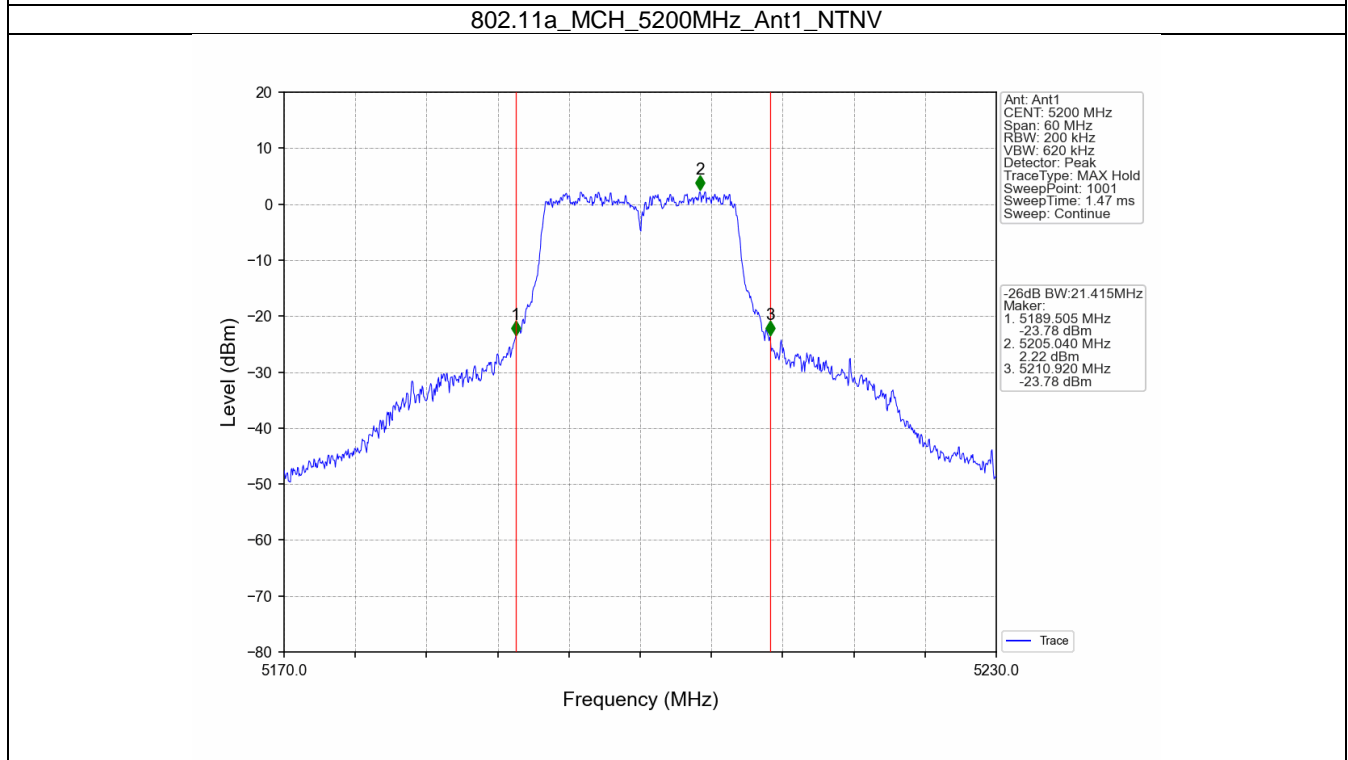
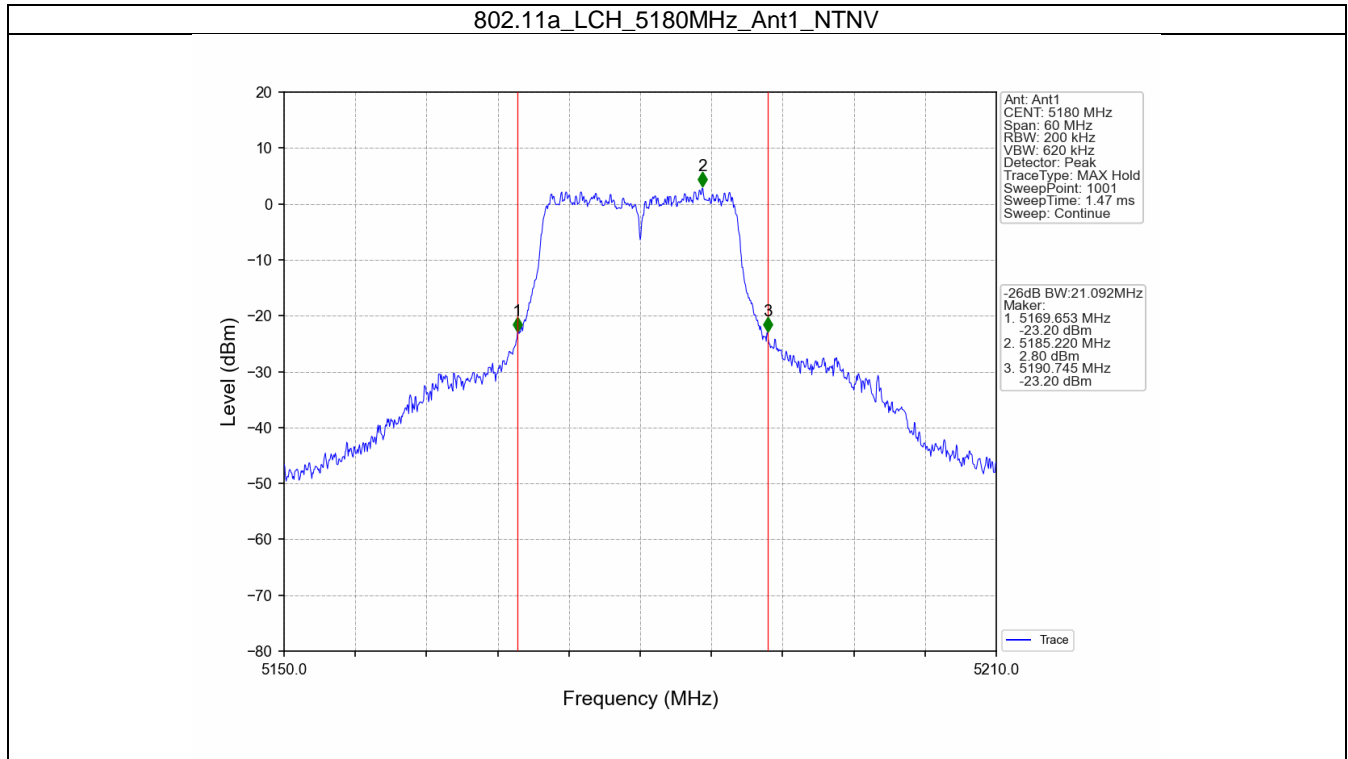


## 1.2 26dB BW

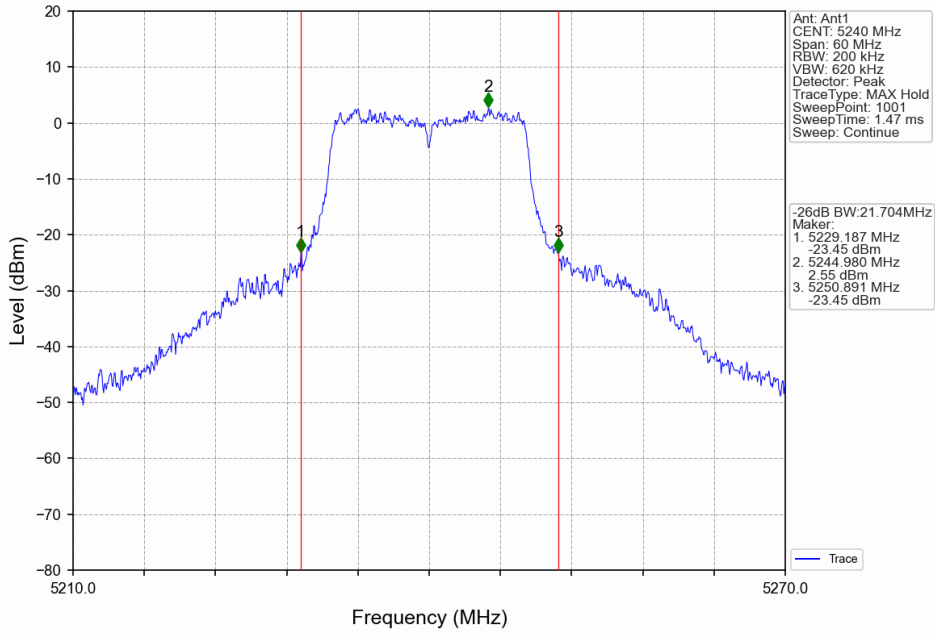
### 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	21.092	Pass
		5200	1	21.415	Pass
		5240	1	21.704	Pass
802.11n (HT20)	SISO	5180	1	21.382	Pass
		5200	1	21.243	Pass
		5240	1	21.364	Pass
802.11n (HT40)	SISO	5190	1	44.694	Pass
		5230	1	41.800	Pass
802.11ac (VHT20)	SISO	5180	1	22.621	Pass
		5200	1	23.132	Pass
		5240	1	21.564	Pass
802.11ac (VHT40)	SISO	5190	1	42.228	Pass
		5230	1	44.863	Pass
802.11ac (VHT80)	SISO	5210	1	84.300	Pass

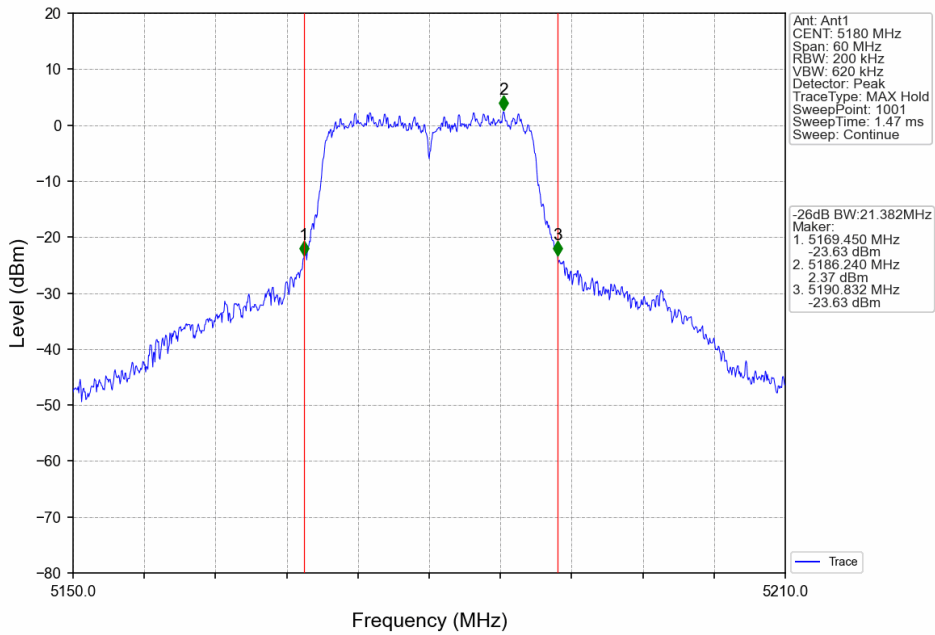
1.2.2 Test Graph



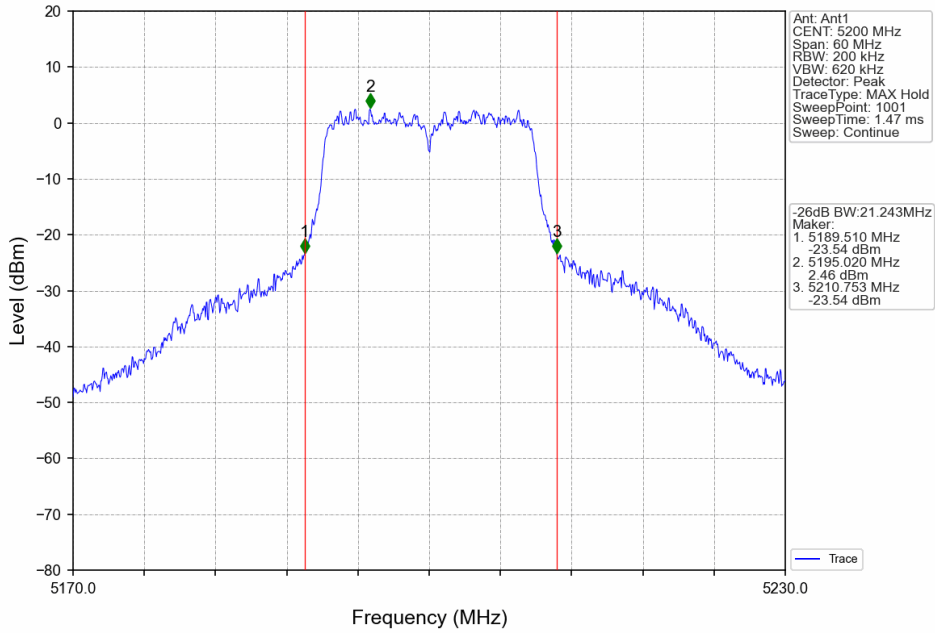
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



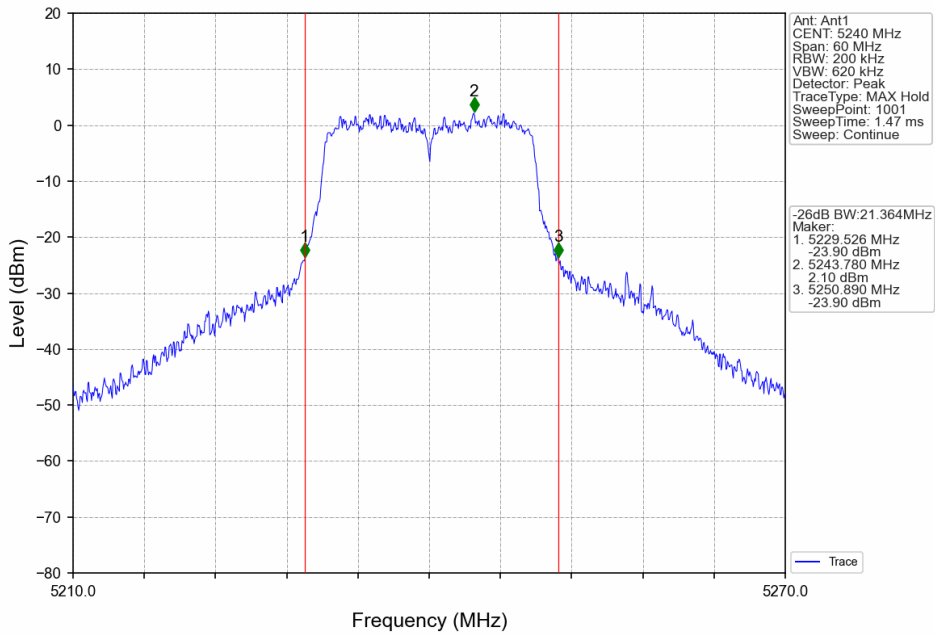
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



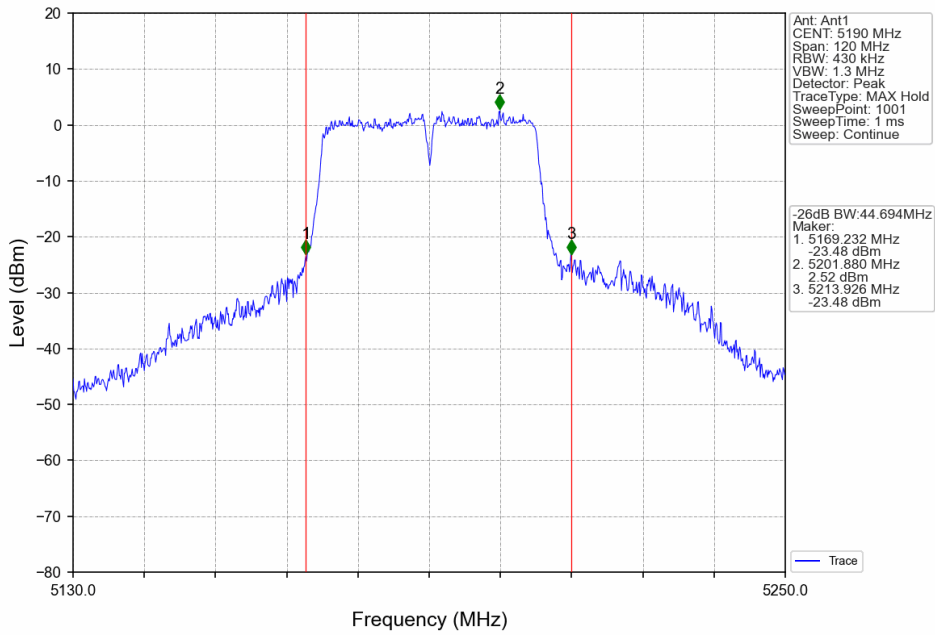
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



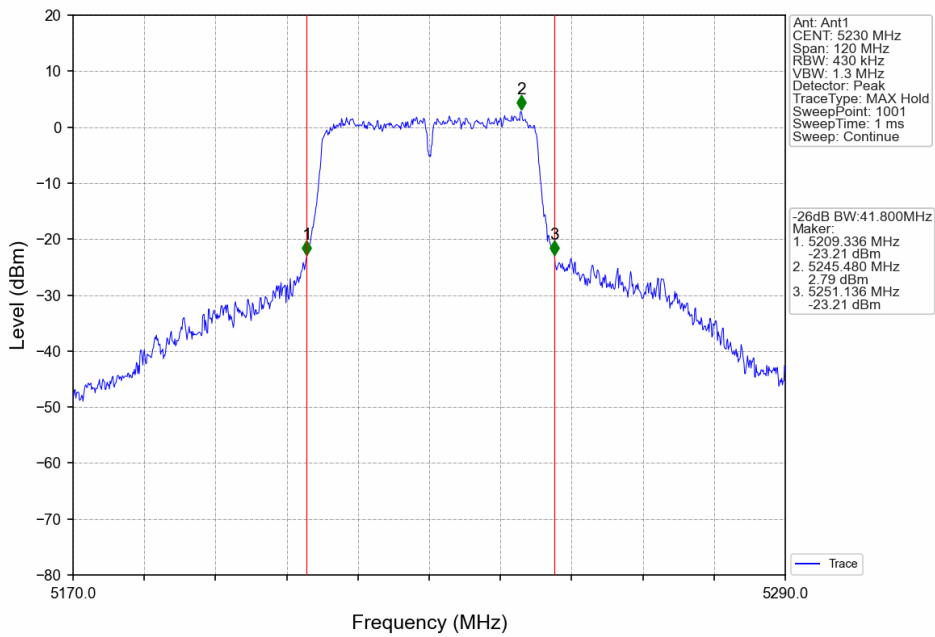
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



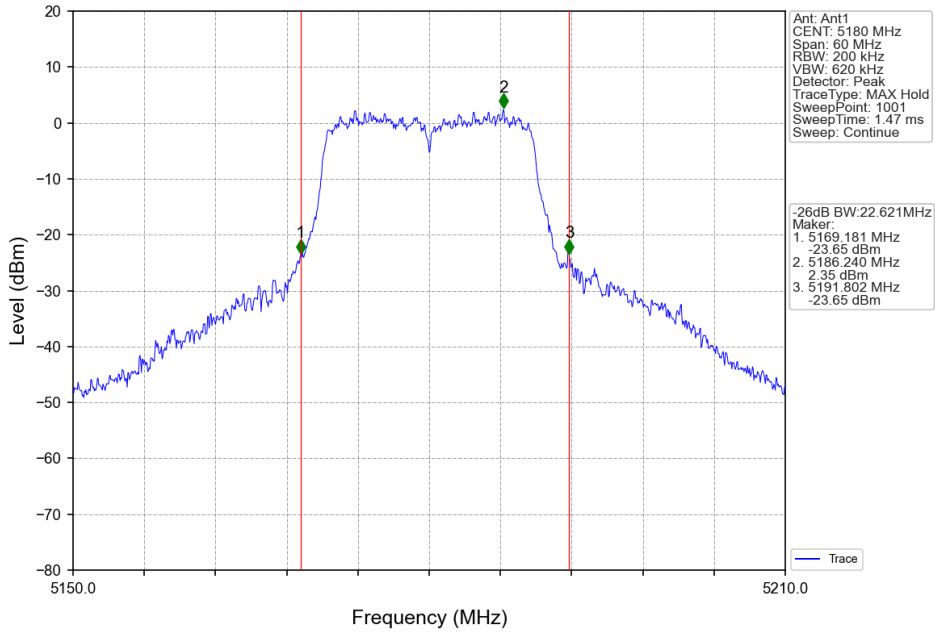
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



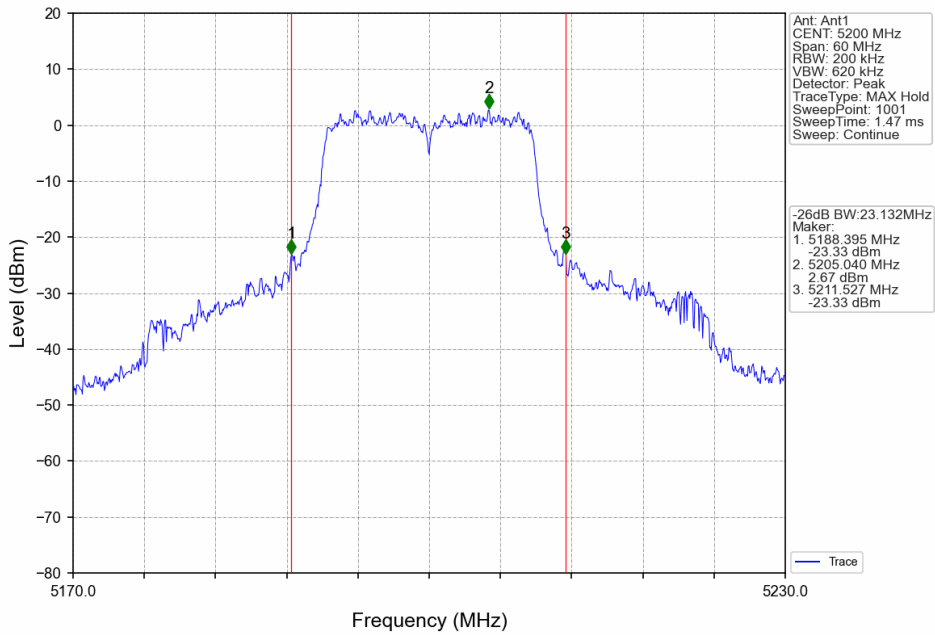
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



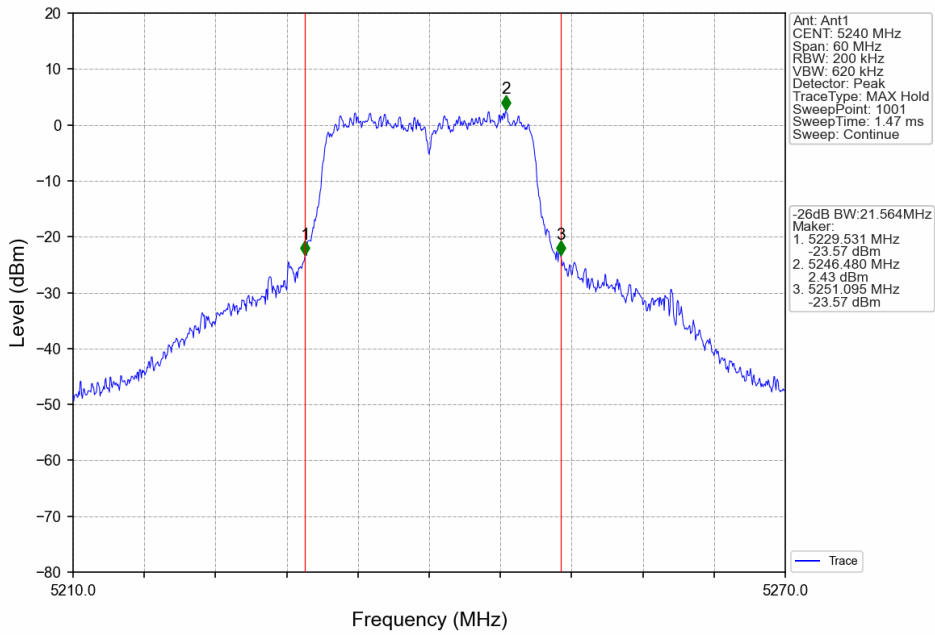
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



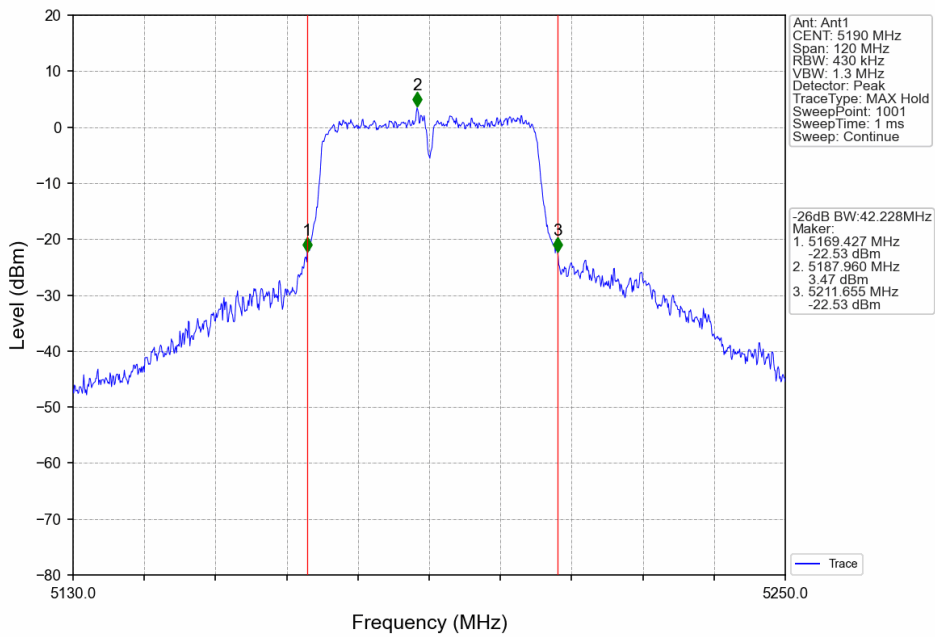
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



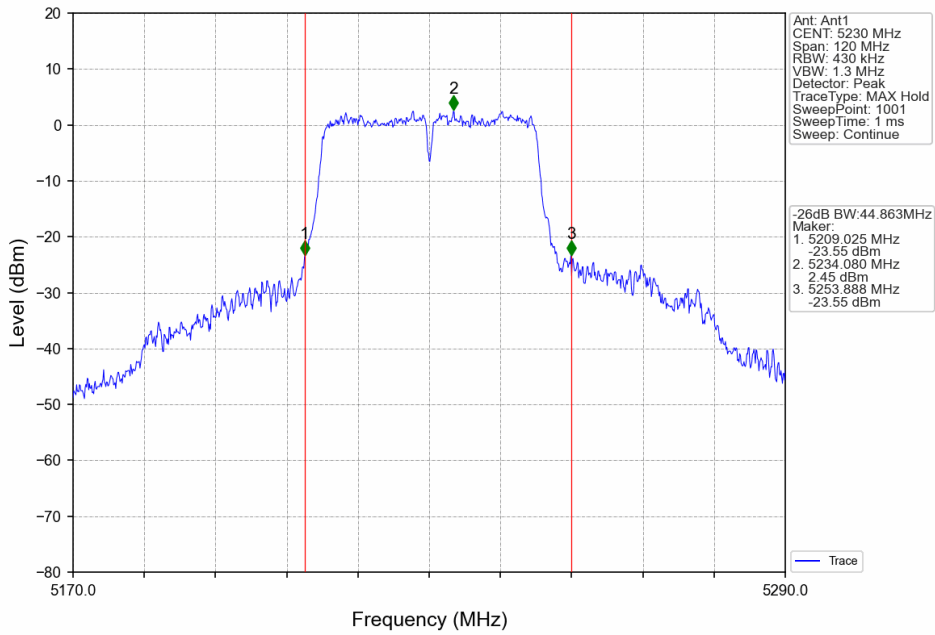
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



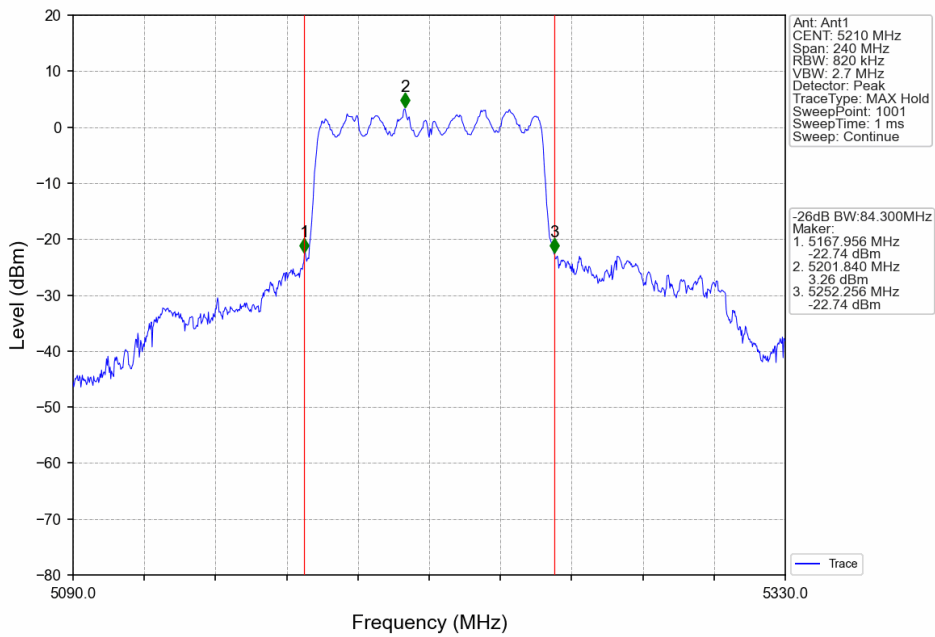
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV





## 2. Maximum Conducted Output Power

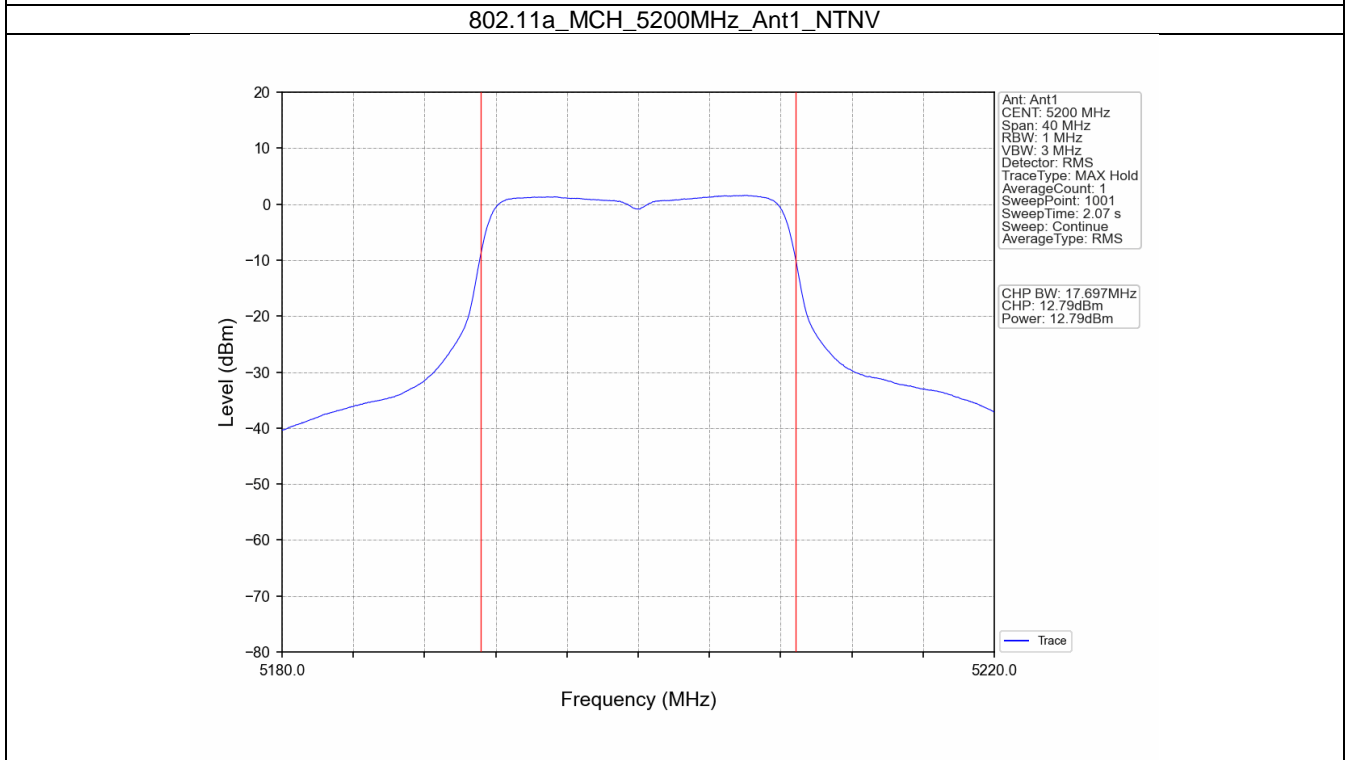
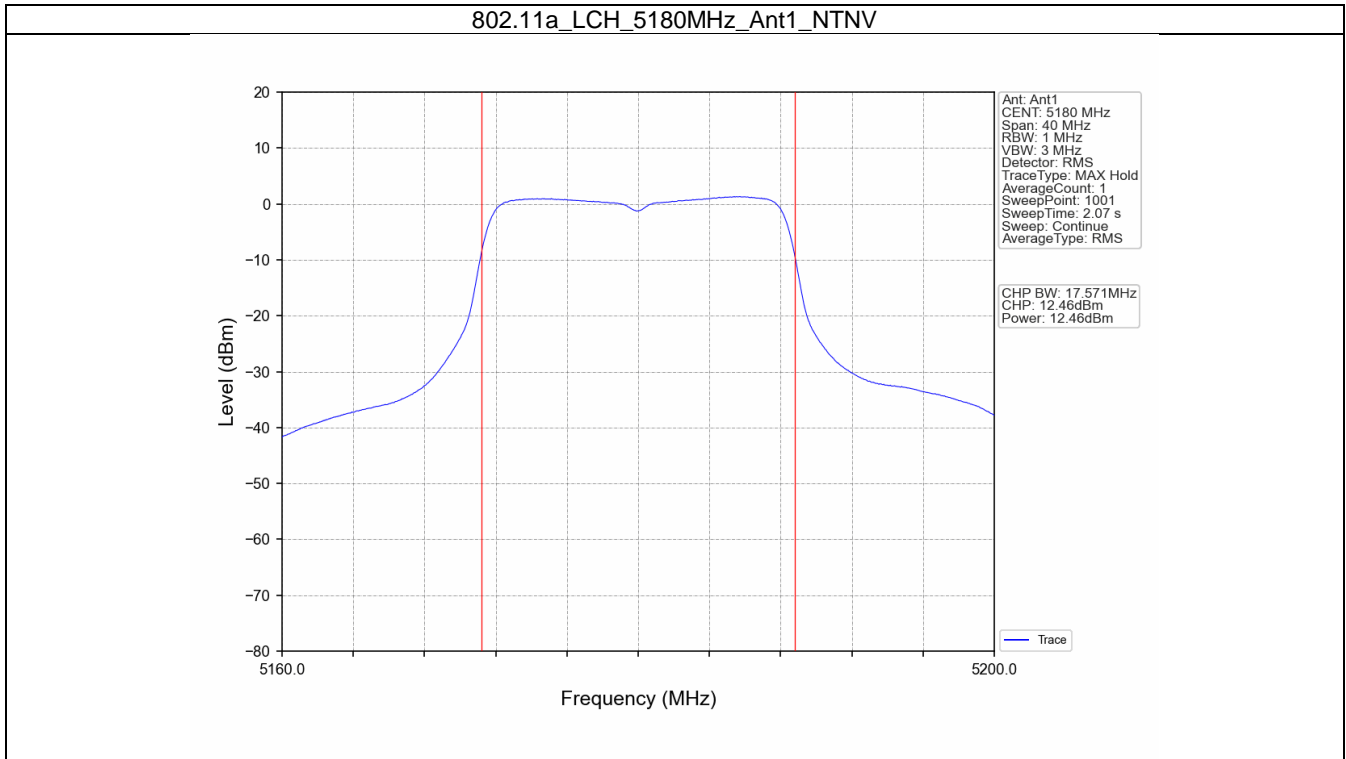
### 2.1 Power

#### 2.1.1 Test Result

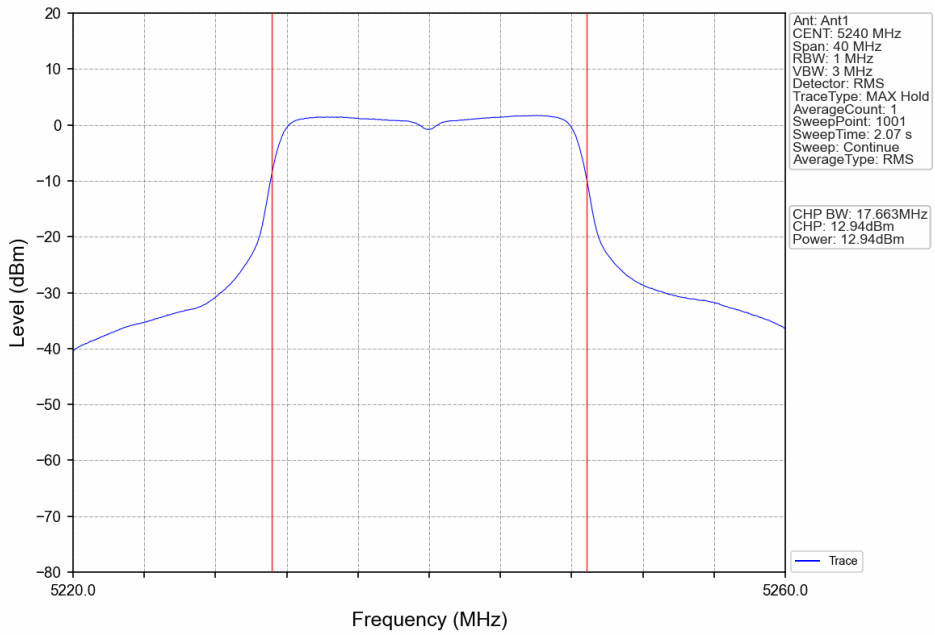
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	12.46	<=23.98	Pass
		5200	12.79	<=23.98	Pass
		5240	12.94	<=23.98	Pass
802.11n (HT20)	SISO	5180	12.36	<=23.98	Pass
		5200	12.77	<=23.98	Pass
		5240	12.90	<=23.98	Pass
802.11n (HT40)	SISO	5190	12.82	<=23.98	Pass
		5230	12.97	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	12.48	<=23.98	Pass
		5200	12.84	<=23.98	Pass
		5240	12.96	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	12.88	<=23.98	Pass
		5230	13.04	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	12.75	<=23.98	Pass

Note1: Antenna Gain: Ant1: 0.97dBi;

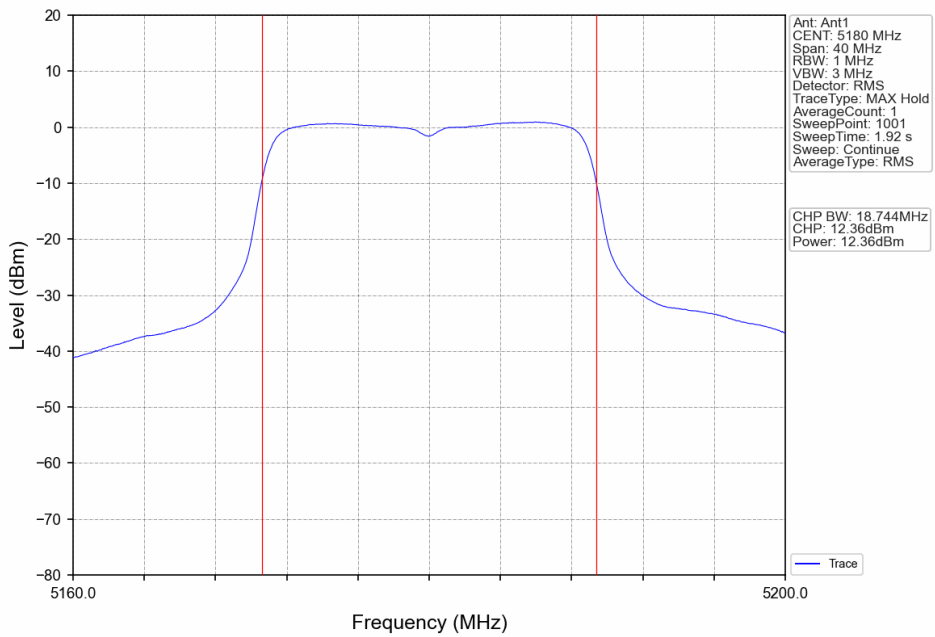
2.1.2 Test Graph



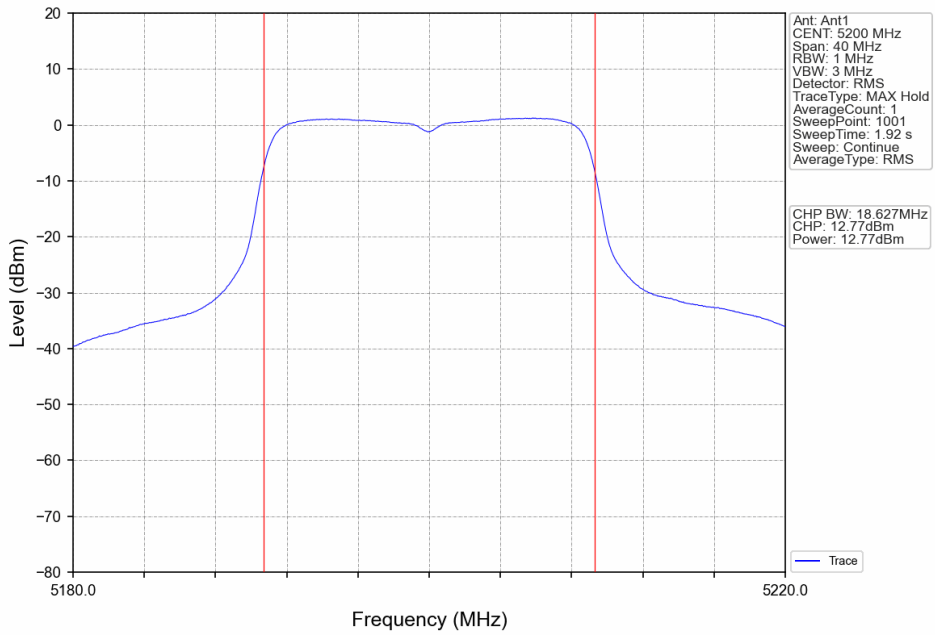
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



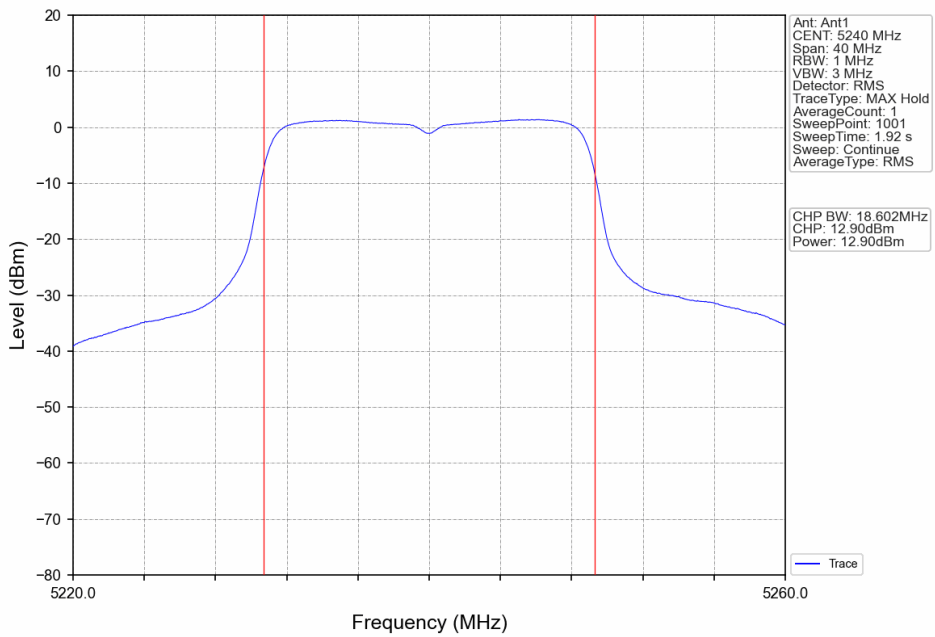
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



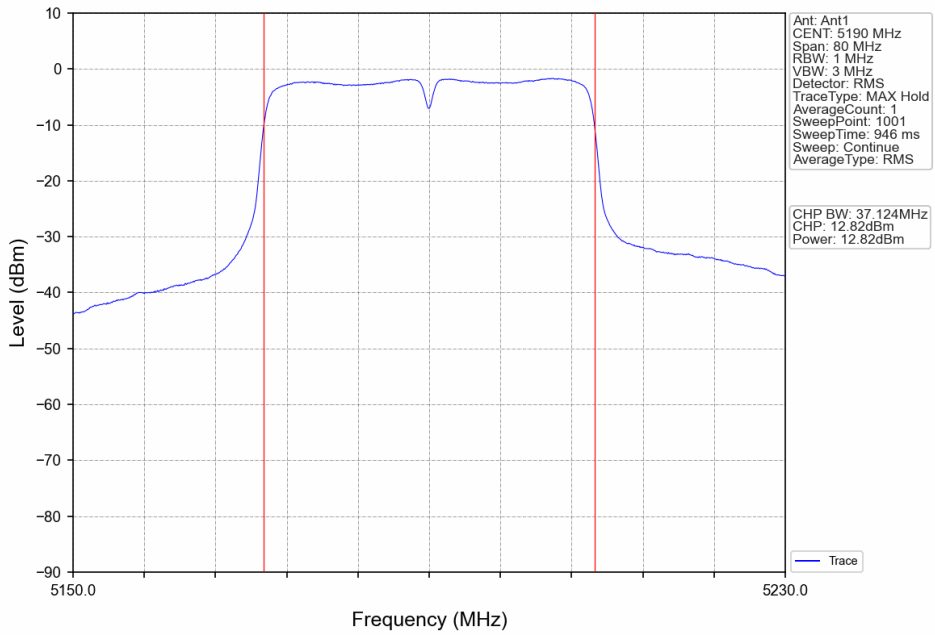
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



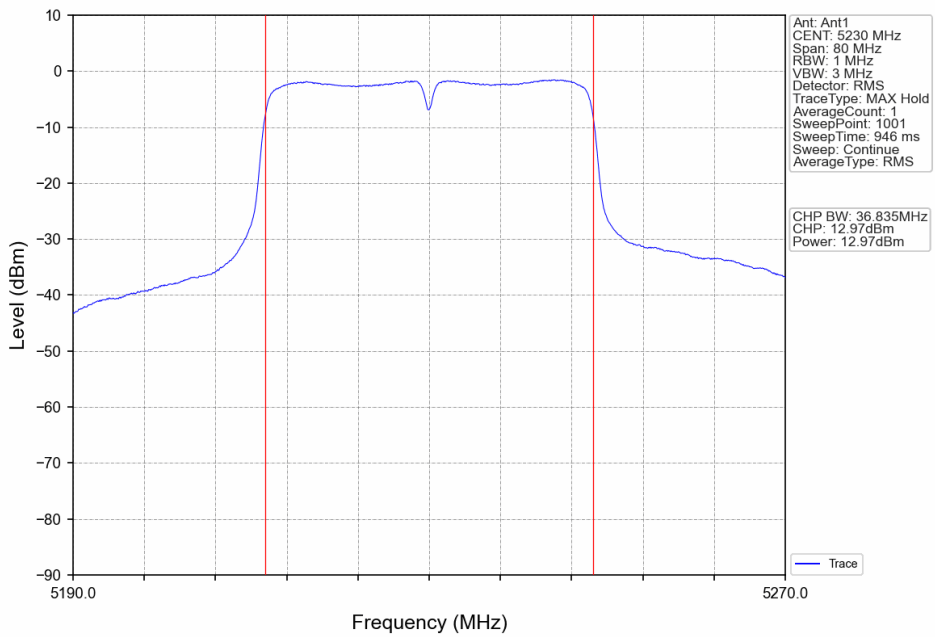
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



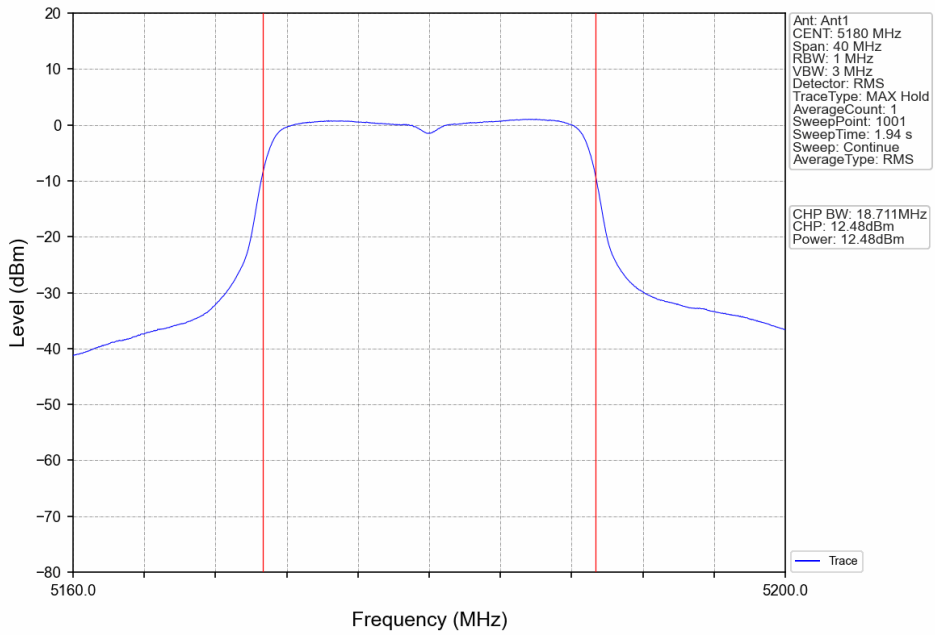
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



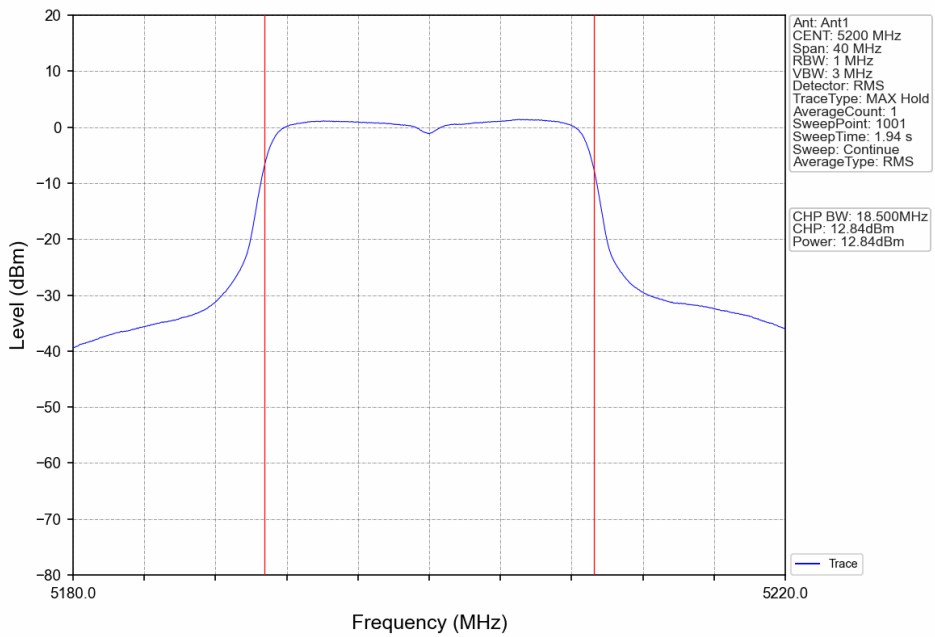
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



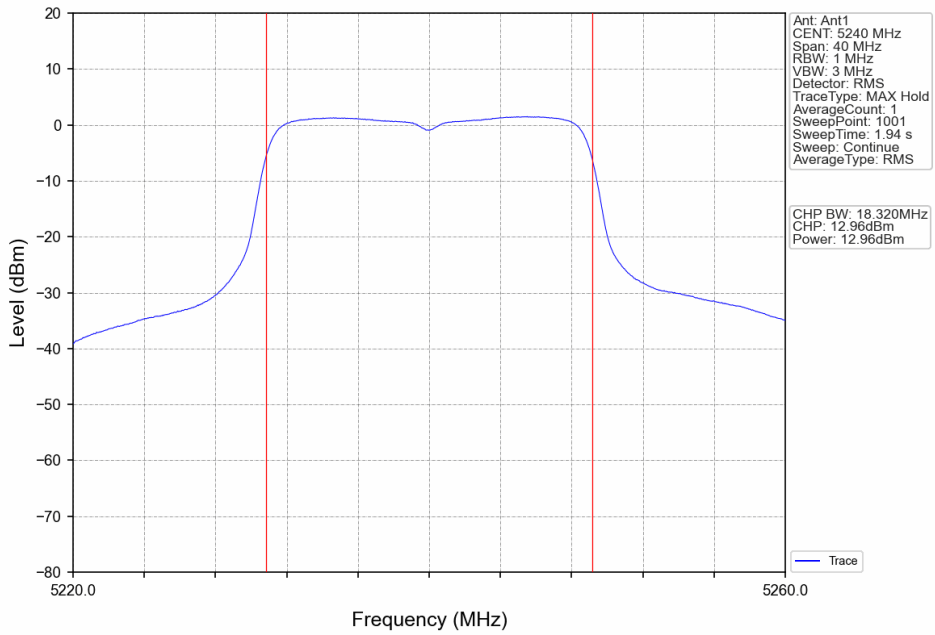
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



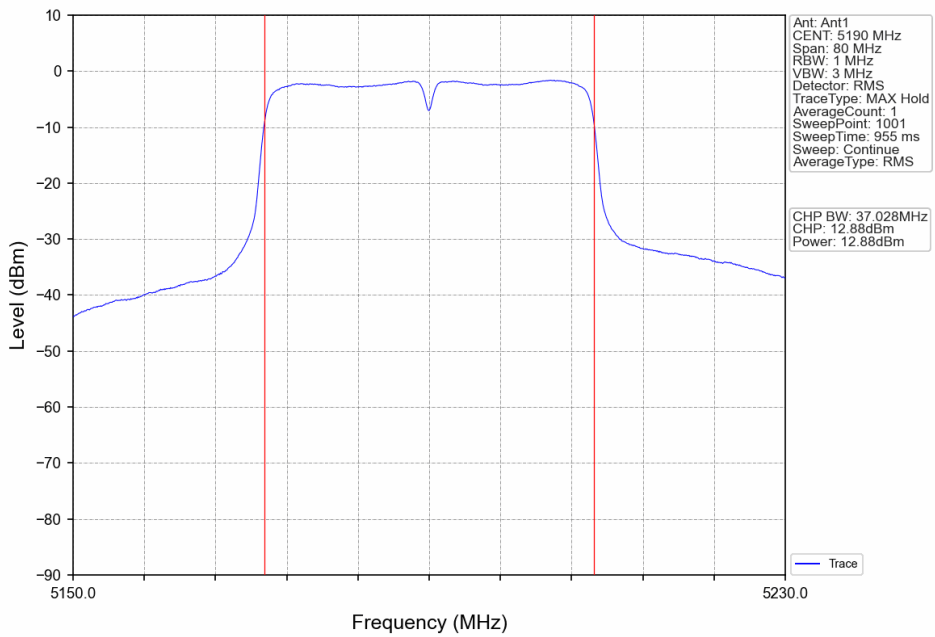
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



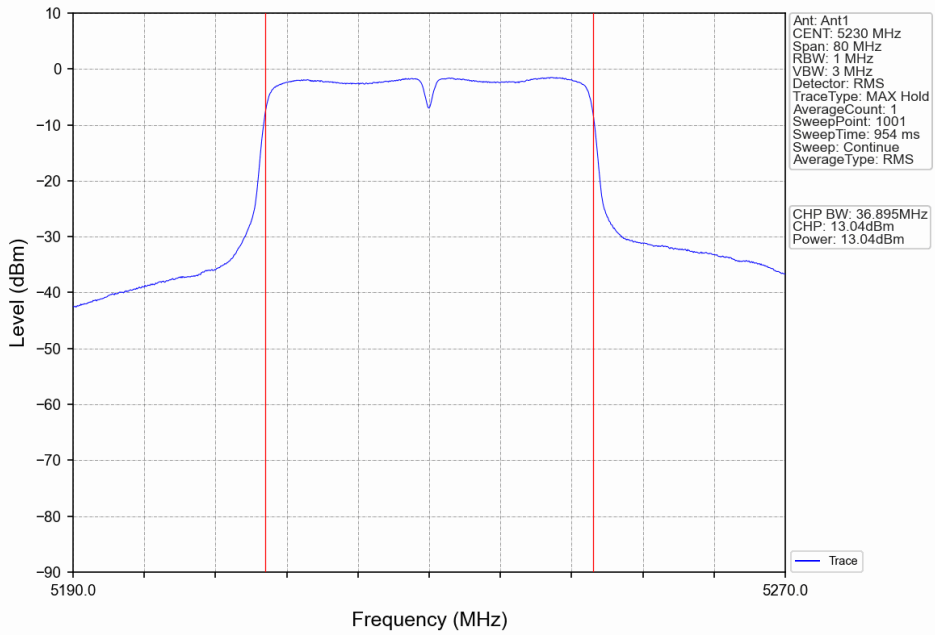
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



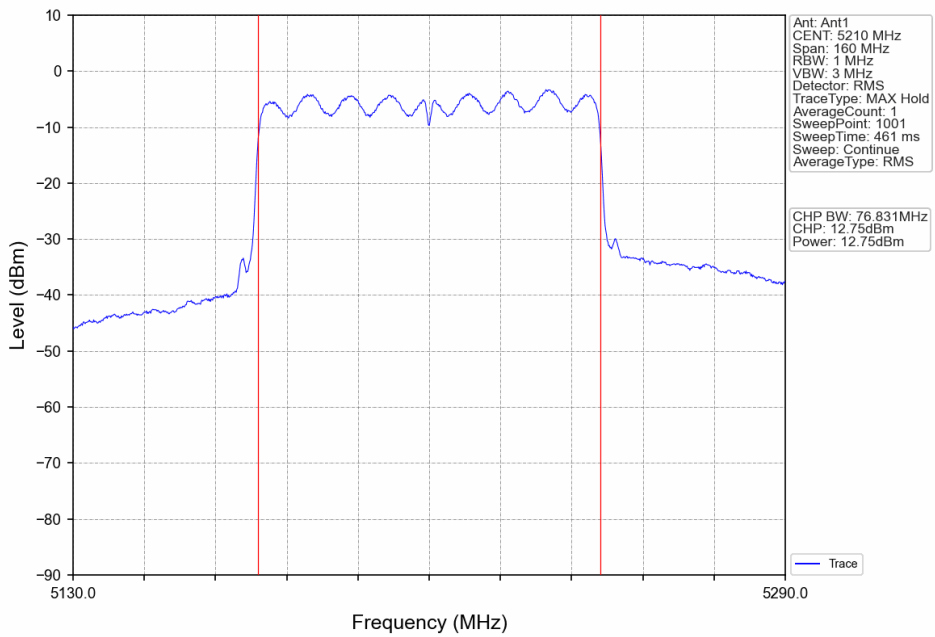
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV





### 3. Maximum Power Spectral Density

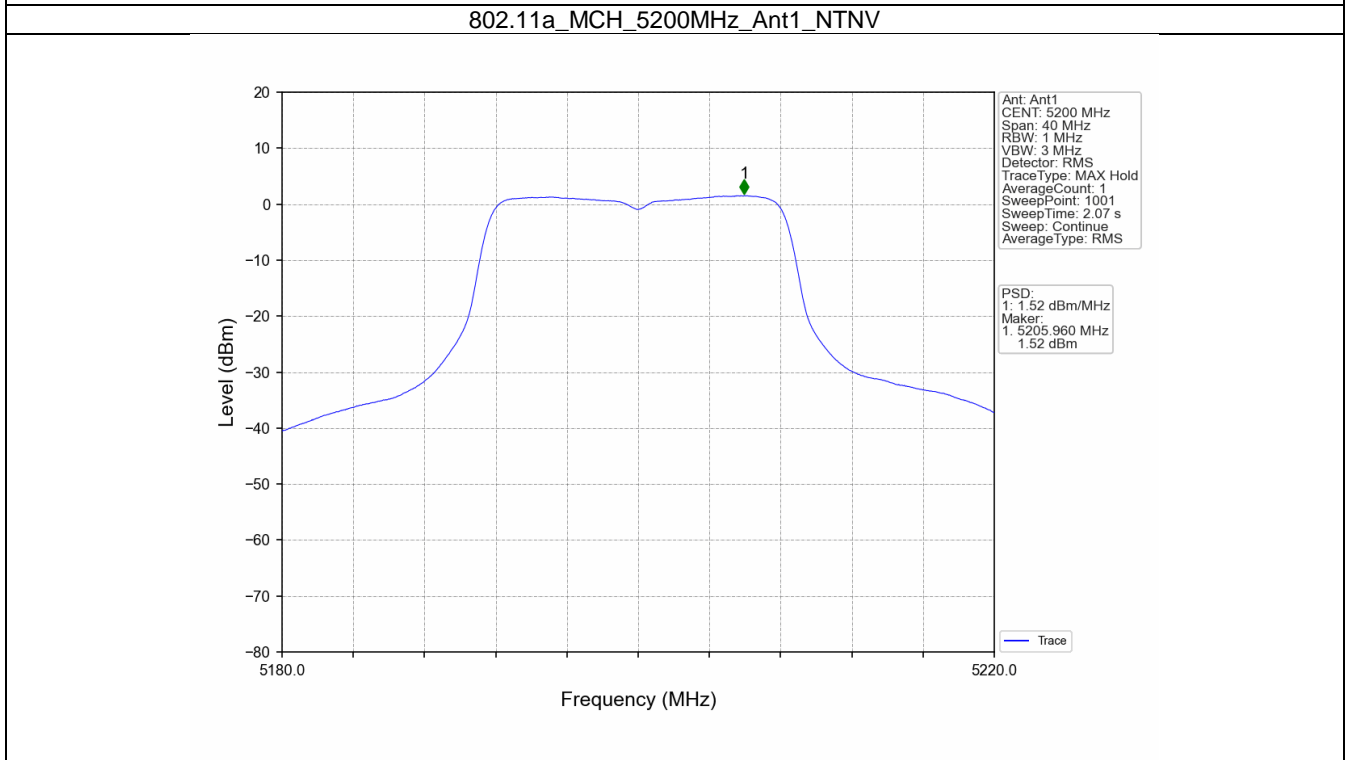
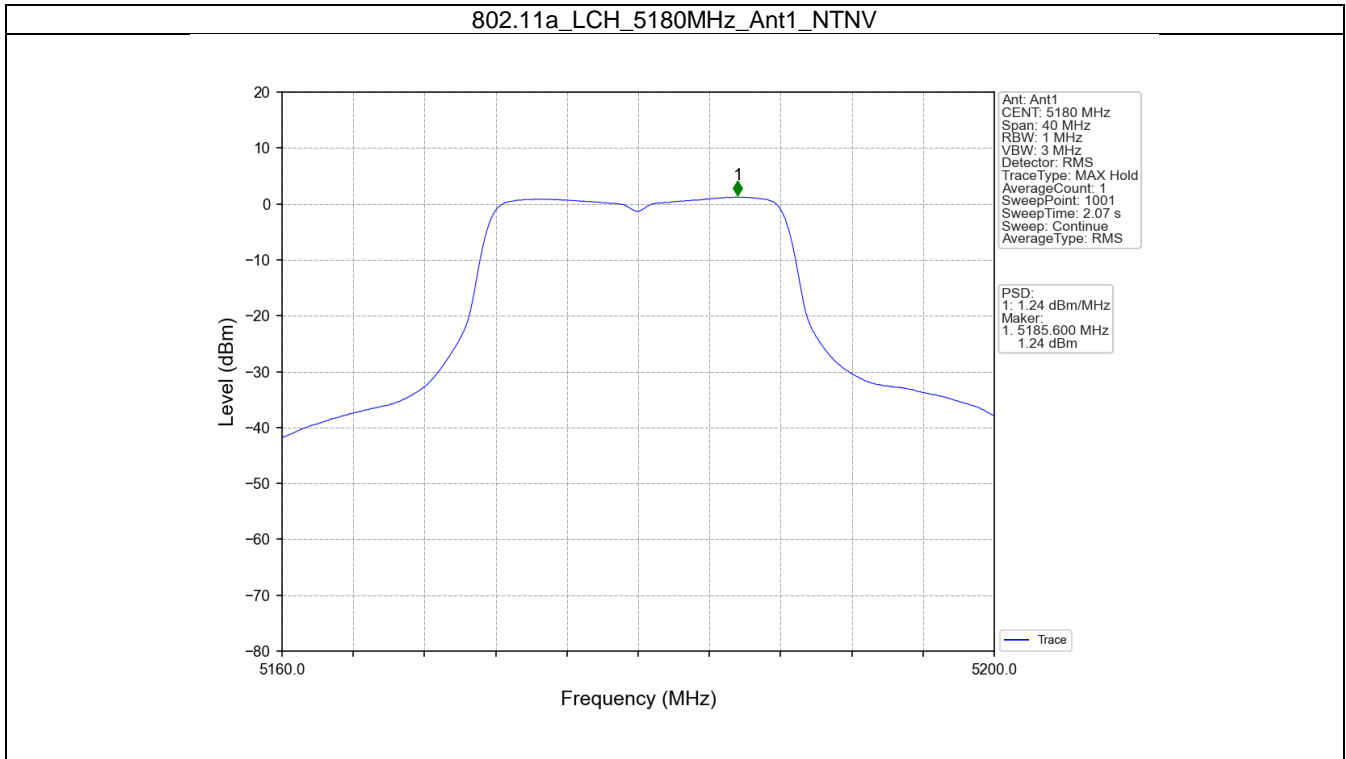
#### 3.1 PSD

##### 3.1.1 Test Result

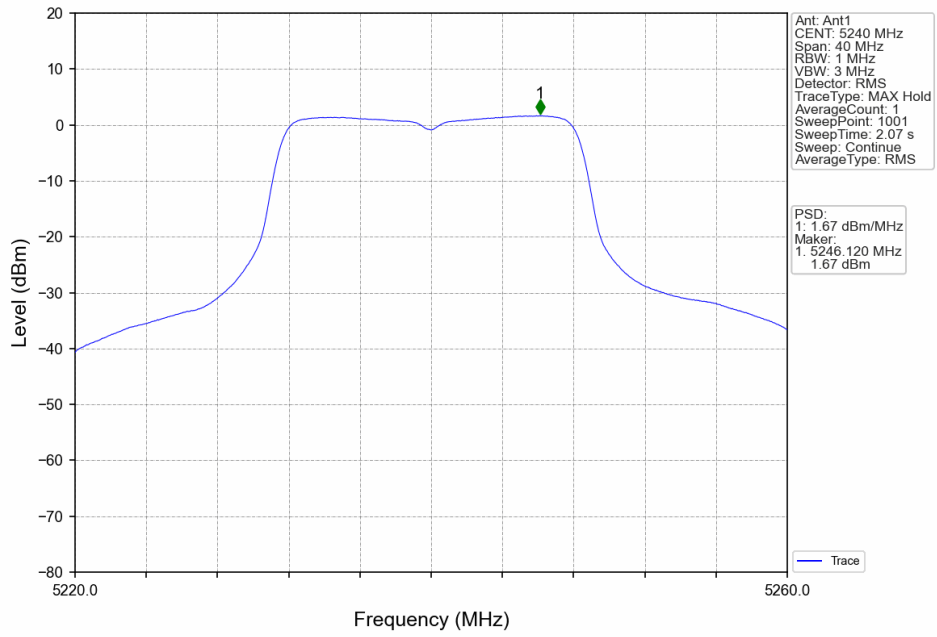
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	1.24	<=11	Pass
		5200	1.52	<=11	Pass
		5240	1.67	<=11	Pass
802.11n (HT20)	SISO	5180	0.89	<=11	Pass
		5200	1.16	<=11	Pass
		5240	1.29	<=11	Pass
802.11n (HT40)	SISO	5190	-1.71	<=11	Pass
		5230	-1.58	<=11	Pass
802.11ac (VHT20)	SISO	5180	0.98	<=11	Pass
		5200	1.35	<=11	Pass
		5240	1.41	<=11	Pass
802.11ac (VHT40)	SISO	5190	-1.66	<=11	Pass
		5230	-1.54	<=11	Pass
802.11ac (VHT80)	SISO	5210	-3.27	<=11	Pass

Note1: Antenna Gain: Ant1: 0.97dBi;

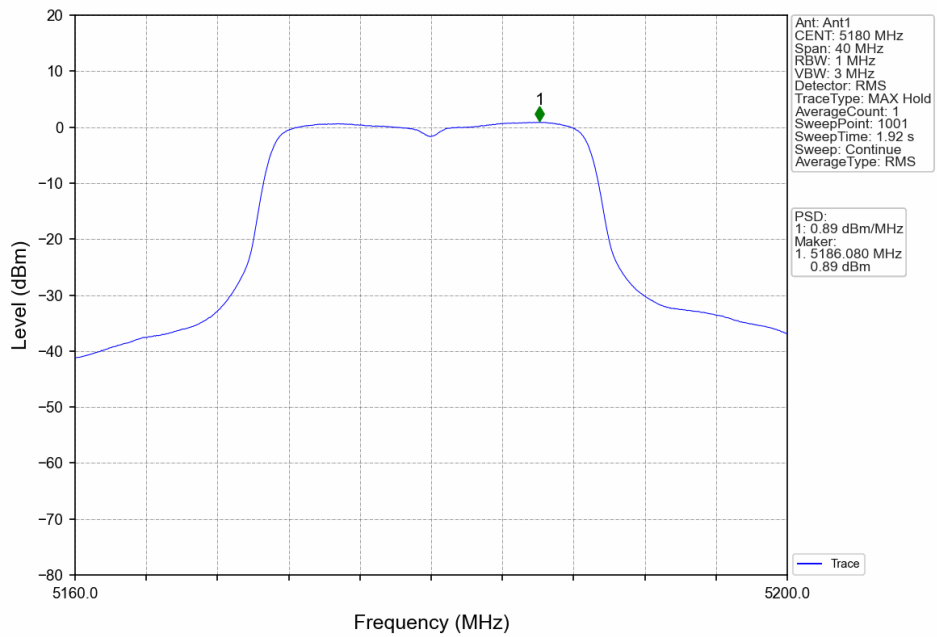
3.1.2 Test Graph



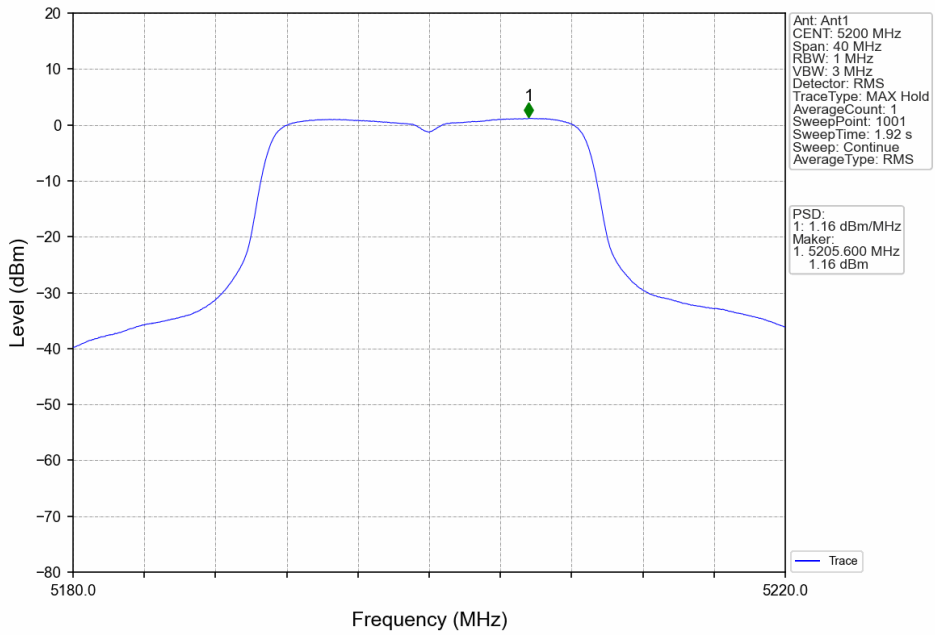
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



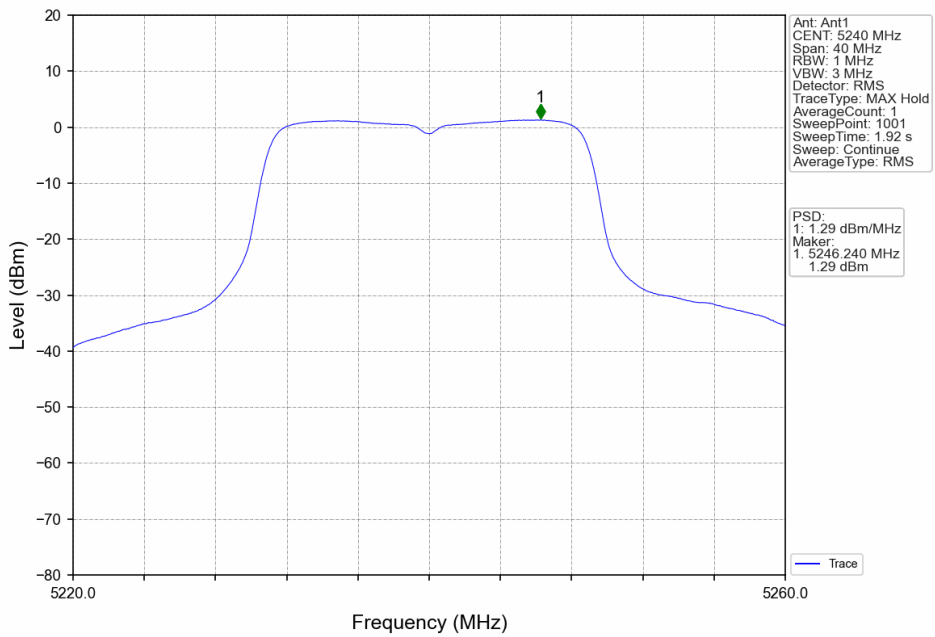
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



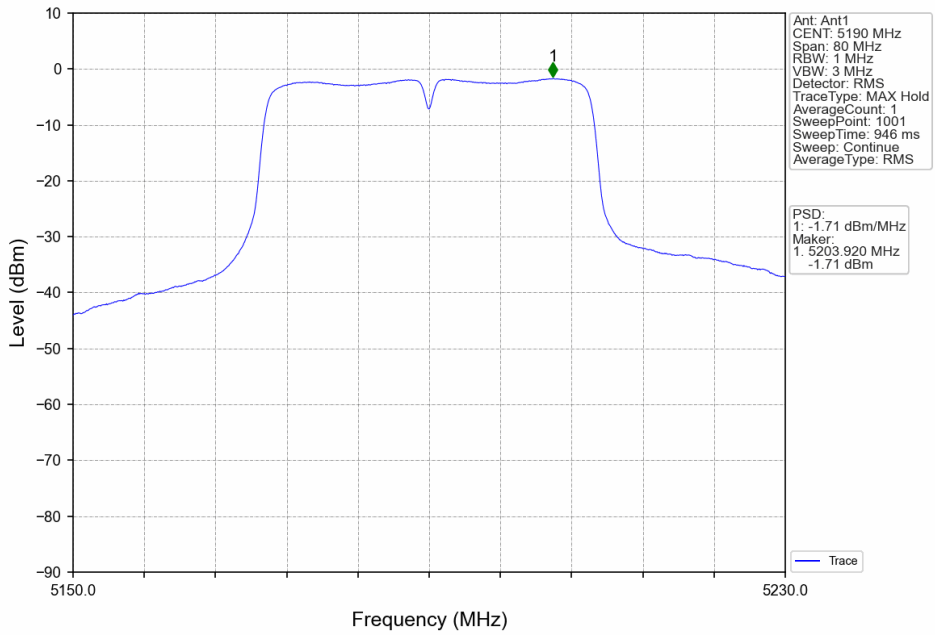
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



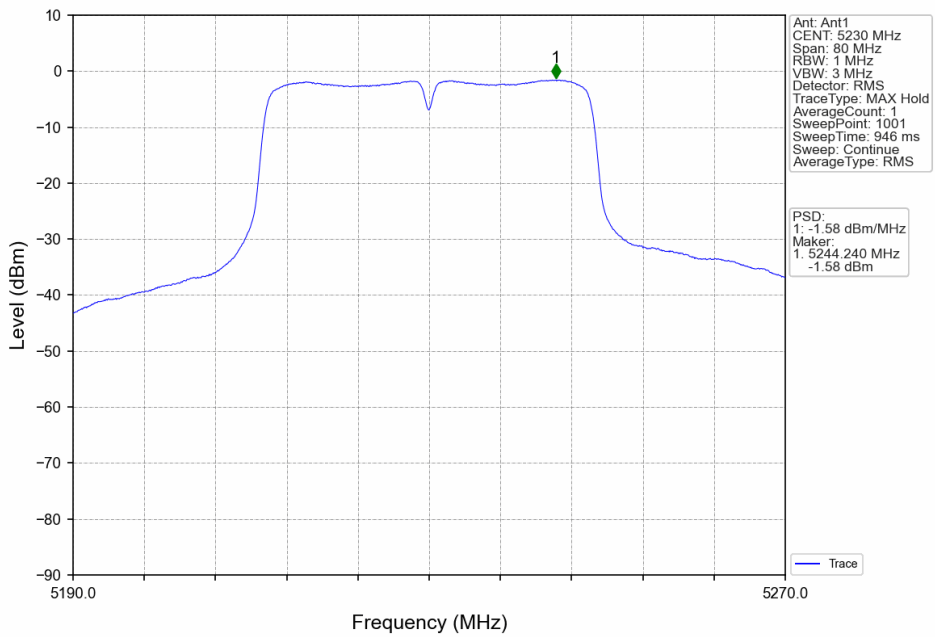
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



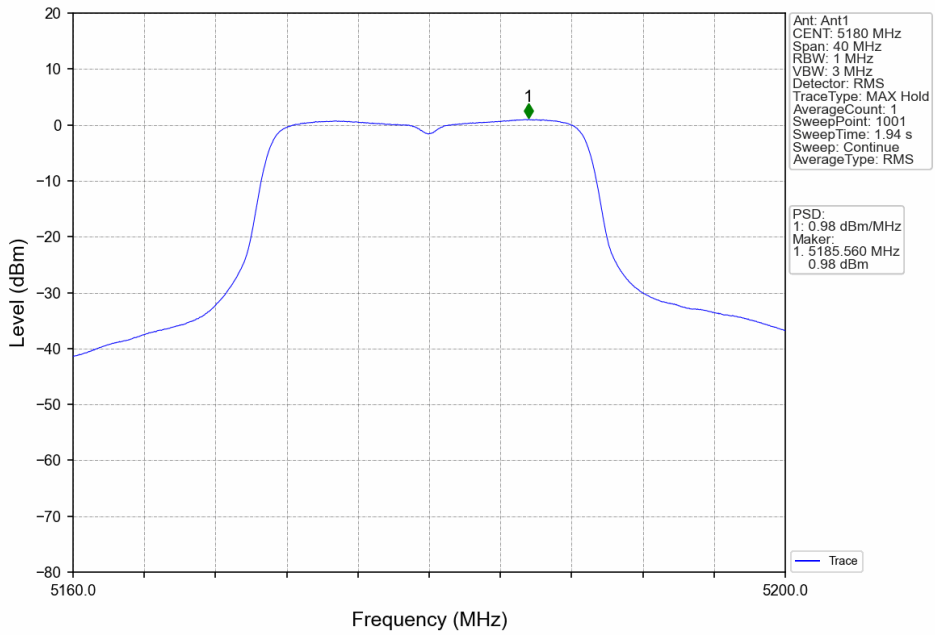
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



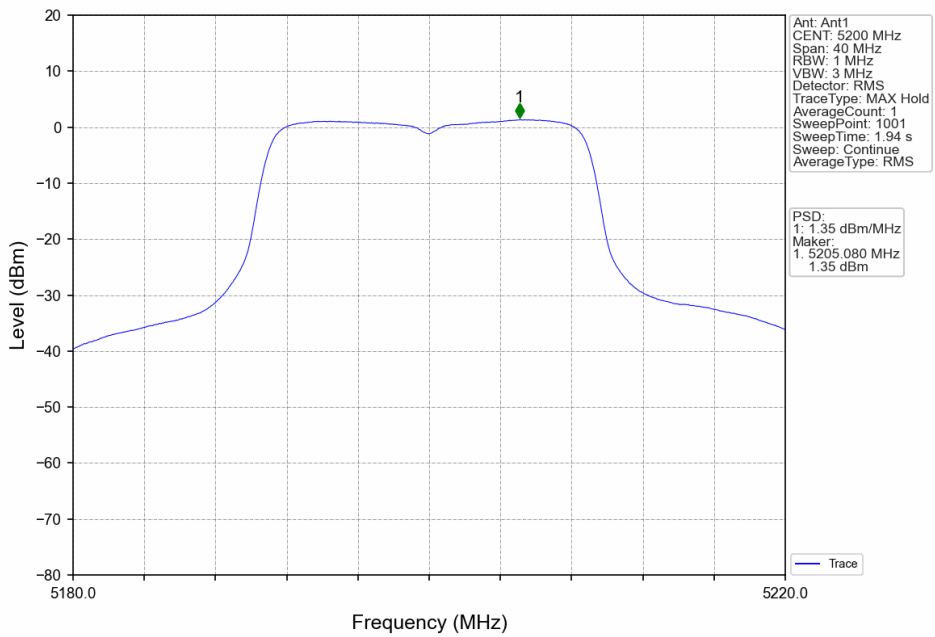
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



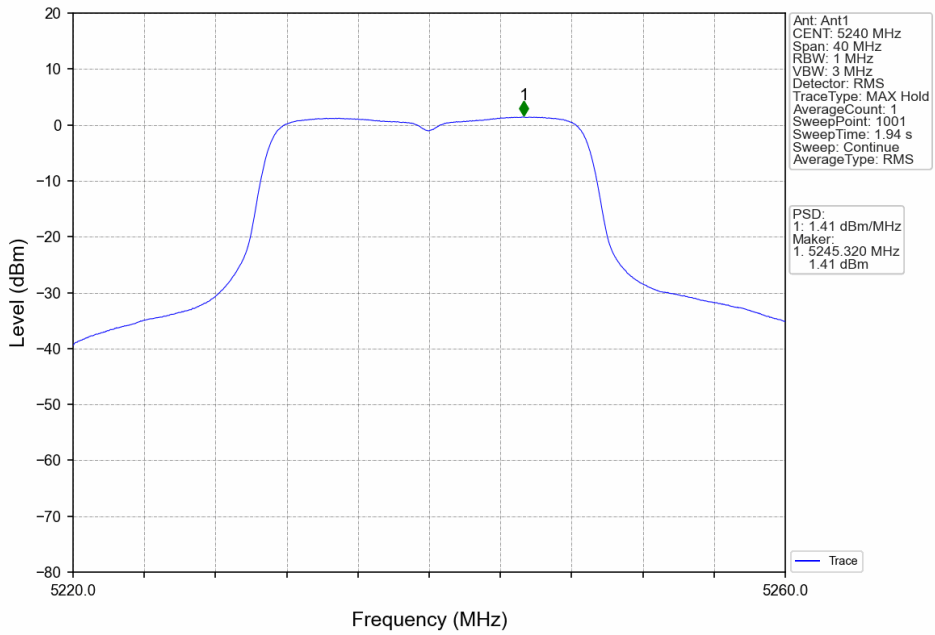
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



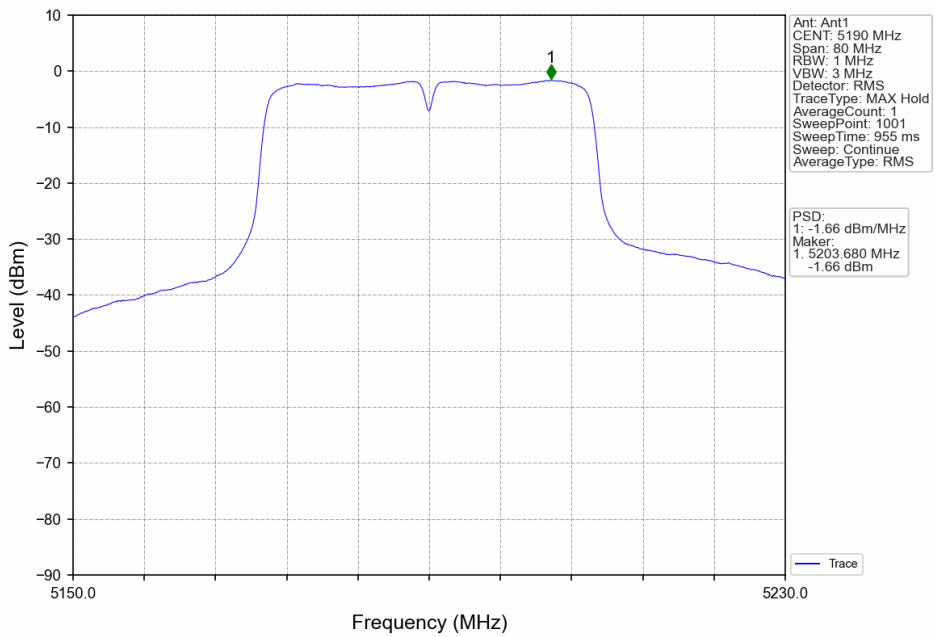
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



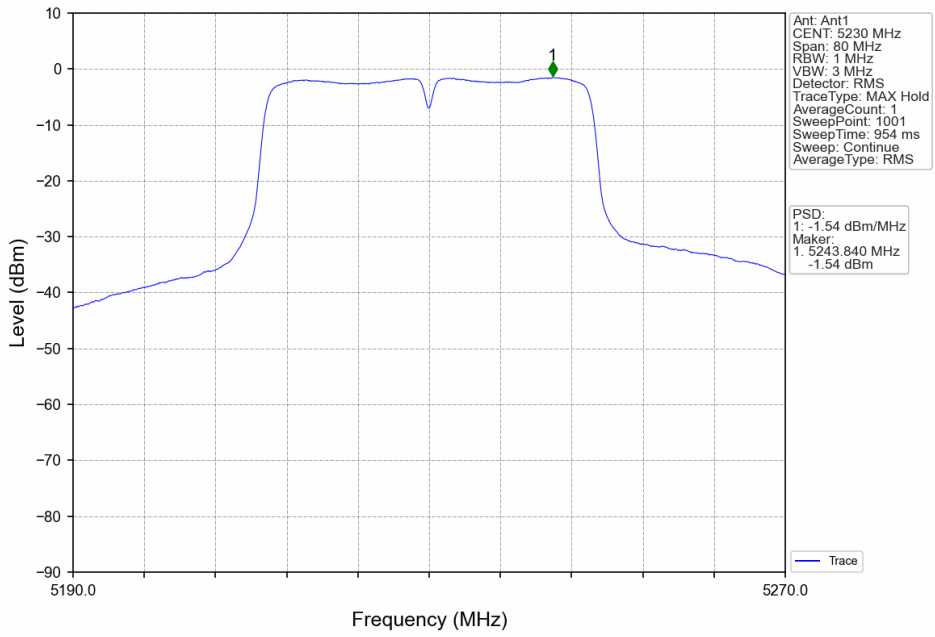
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



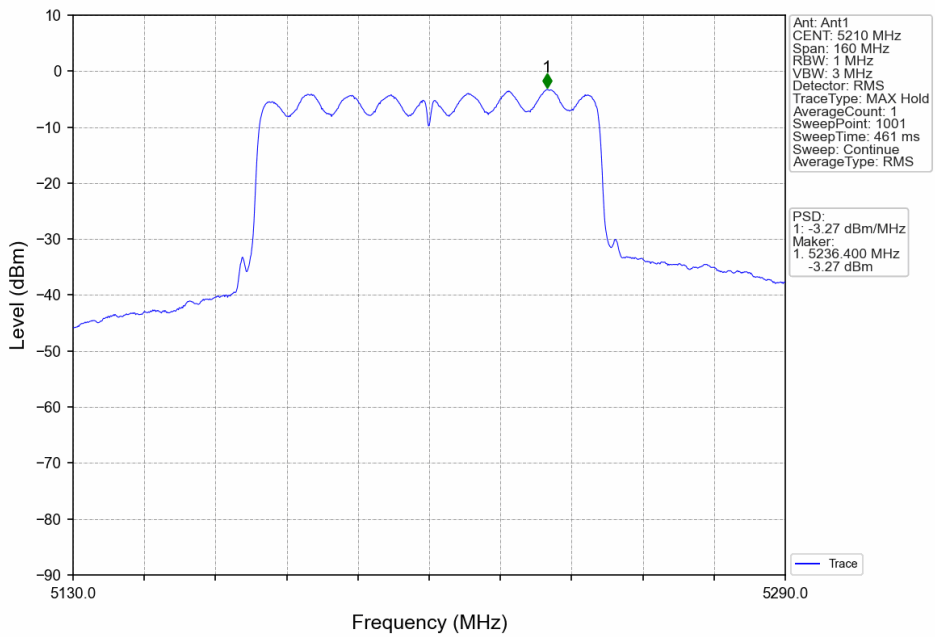
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV





### 4. Frequency Stability

#### 4.1 Ant1

##### 4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.976	5150 to 5250	Pass
				120	5179.975	5150 to 5250	Pass
				138	5179.974	5150 to 5250	Pass
			-30	120	5179.974	5150 to 5250	Pass
			-20	120	5179.974	5150 to 5250	Pass
			-10	120	5179.974	5150 to 5250	Pass
			0	120	5179.974	5150 to 5250	Pass
			10	120	5179.974	5150 to 5250	Pass
			30	120	5179.974	5150 to 5250	Pass
		40	120	5179.973	5150 to 5250	Pass	
		50	120	5179.974	5150 to 5250	Pass	
		5200	20	102	5199.974	5150 to 5250	Pass
				120	5199.973	5150 to 5250	Pass
				138	5199.973	5150 to 5250	Pass
			-30	120	5199.973	5150 to 5250	Pass
			-20	120	5199.973	5150 to 5250	Pass
			-10	120	5199.973	5150 to 5250	Pass
			0	120	5199.973	5150 to 5250	Pass
			10	120	5199.972	5150 to 5250	Pass
			30	120	5199.972	5150 to 5250	Pass
		40	120	5199.972	5150 to 5250	Pass	
		50	120	5199.972	5150 to 5250	Pass	
		5240	20	102	5239.974	5150 to 5250	Pass
				120	5239.974	5150 to 5250	Pass
				138	5239.974	5150 to 5250	Pass
			-30	120	5239.974	5150 to 5250	Pass
			-20	120	5239.974	5150 to 5250	Pass
			-10	120	5239.973	5150 to 5250	Pass
			0	120	5239.974	5150 to 5250	Pass
			10	120	5239.974	5150 to 5250	Pass
			30	120	5239.973	5150 to 5250	Pass
		40	120	5239.973	5150 to 5250	Pass	
		50	120	5239.973	5150 to 5250	Pass	
		5190	20	102	5189.977	5150 to 5250	Pass
				120	5189.976	5150 to 5250	Pass
				138	5189.975	5150 to 5250	Pass
			-30	120	5189.974	5150 to 5250	Pass
			-20	120	5189.973	5150 to 5250	Pass
			-10	120	5189.974	5150 to 5250	Pass
			0	120	5189.973	5150 to 5250	Pass
			10	120	5189.973	5150 to 5250	Pass
			30	120	5189.973	5150 to 5250	Pass
		40	120	5189.973	5150 to 5250	Pass	
		50	120	5189.973	5150 to 5250	Pass	
		5230	20	102	5229.974	5150 to 5250	Pass
				120	5229.974	5150 to 5250	Pass
				138	5229.974	5150 to 5250	Pass
			-30	120	5229.973	5150 to 5250	Pass
-20	120		5229.973	5150 to 5250	Pass		

			-10	120	5229.973	5150 to 5250	Pass	
			0	120	5229.973	5150 to 5250	Pass	
			10	120	5229.973	5150 to 5250	Pass	
			30	120	5229.973	5150 to 5250	Pass	
			40	120	5229.973	5150 to 5250	Pass	
			50	120	5229.973	5150 to 5250	Pass	
		5210	20	102	5209.975	5150 to 5250	Pass	
				120	5209.973	5150 to 5250	Pass	
				138	5209.973	5150 to 5250	Pass	
				-30	120	5209.973	5150 to 5250	Pass
				-20	120	5209.973	5150 to 5250	Pass
				-10	120	5209.973	5150 to 5250	Pass
				0	120	5209.973	5150 to 5250	Pass
				10	120	5209.973	5150 to 5250	Pass
				30	120	5209.973	5150 to 5250	Pass
				40	120	5209.973	5150 to 5250	Pass
				50	120	5209.973	5150 to 5250	Pass