

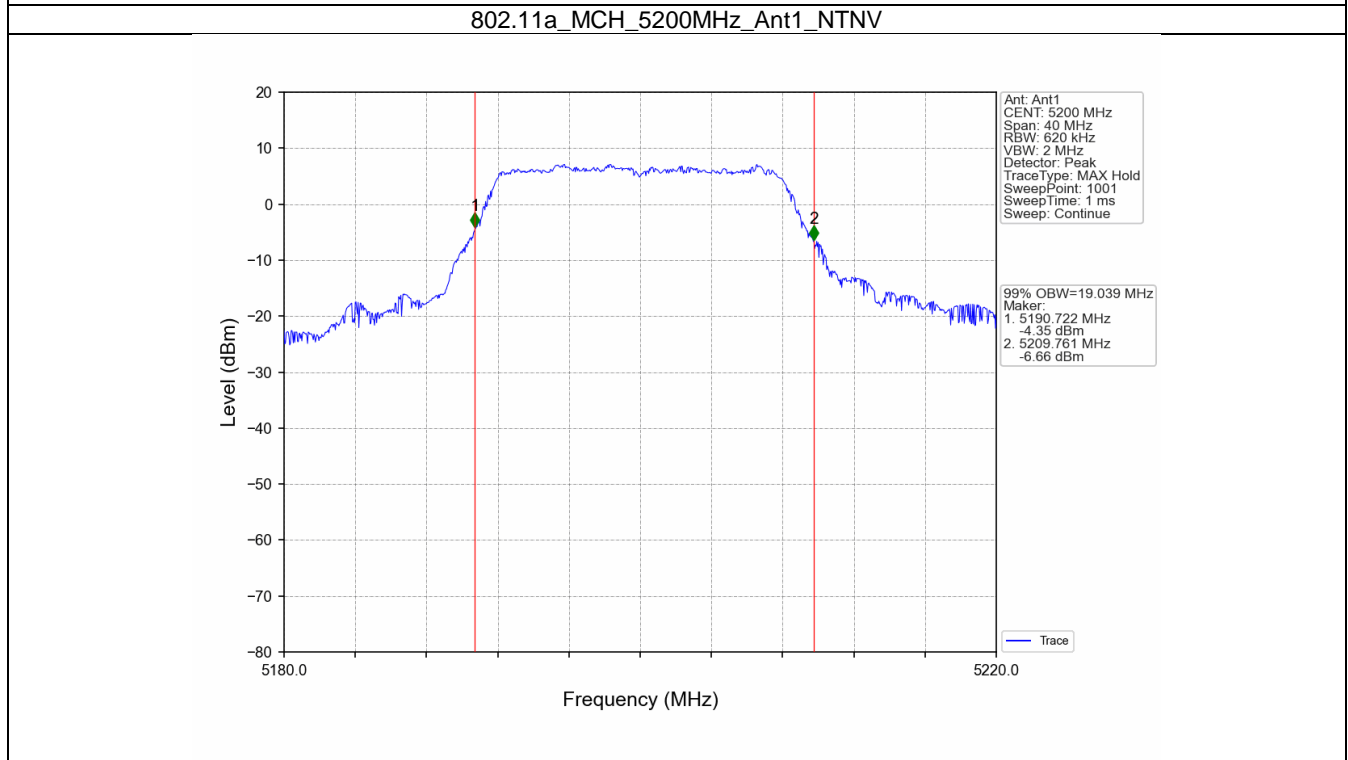
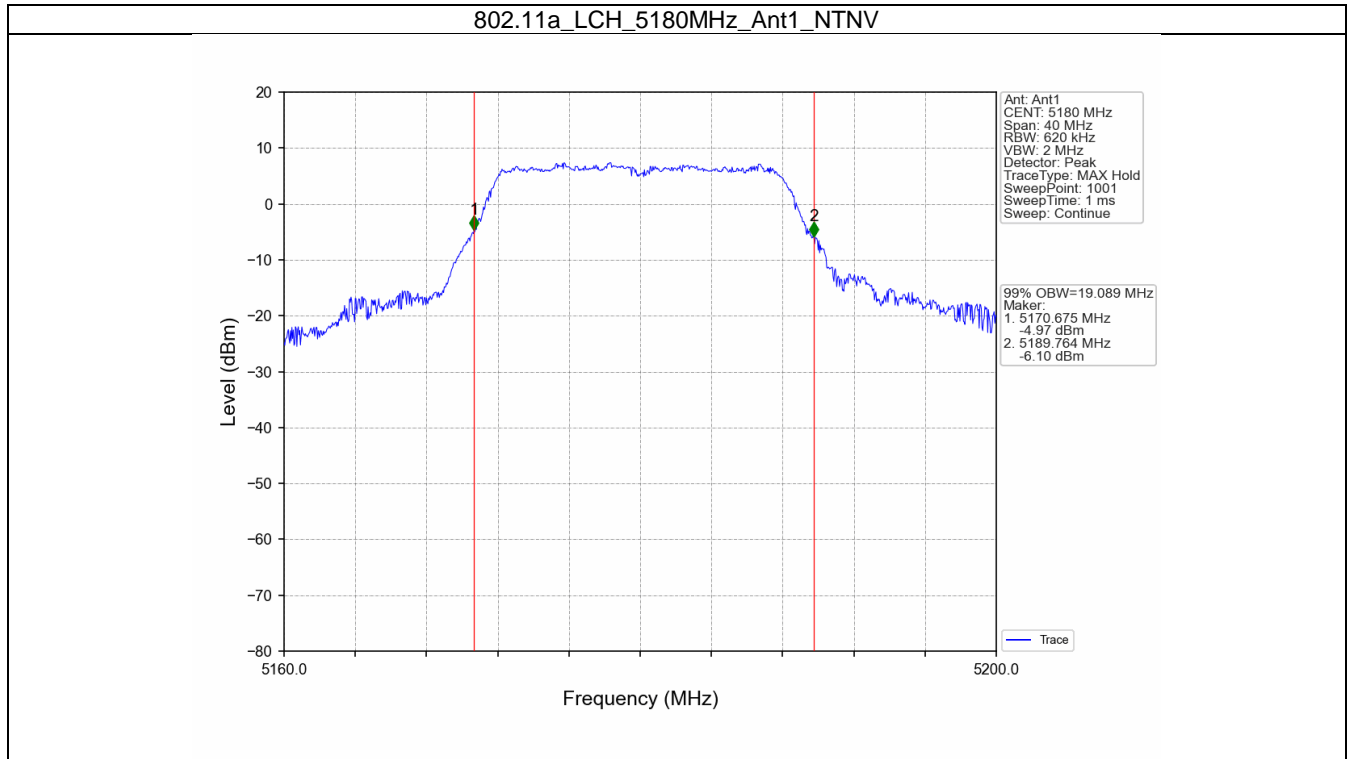
# 1. Bandwidth

## 1.1 OBW

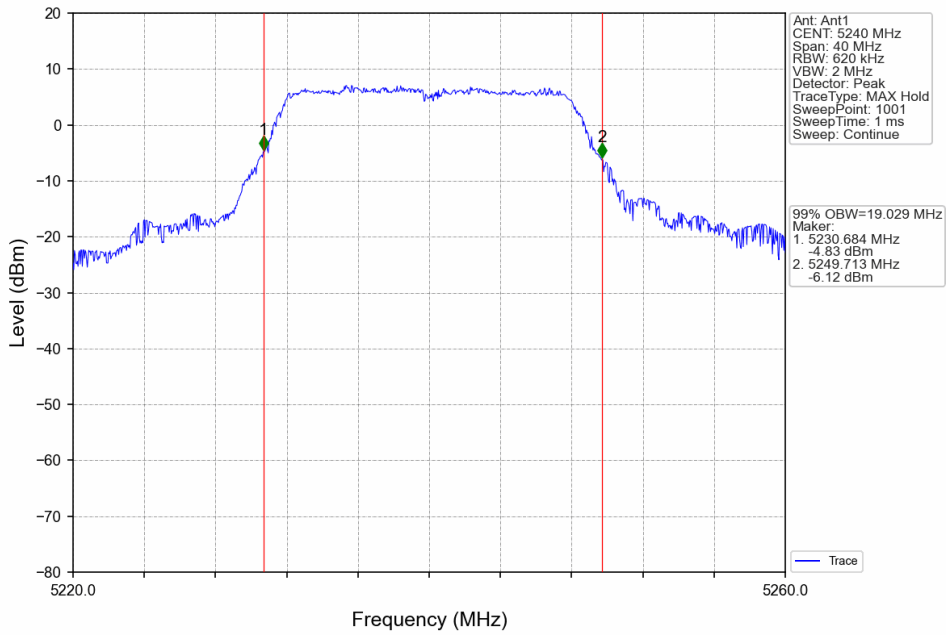
### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.089	/	Pass
		5200	1	19.039	/	Pass
		5240	1	19.029	/	Pass
802.11n (HT20)	SISO	5180	1	19.692	/	Pass
		5200	1	19.906	/	Pass
		5240	1	19.808	/	Pass
802.11n (HT40)	SISO	5190	1	38.237	/	Pass
		5230	1	37.941	/	Pass

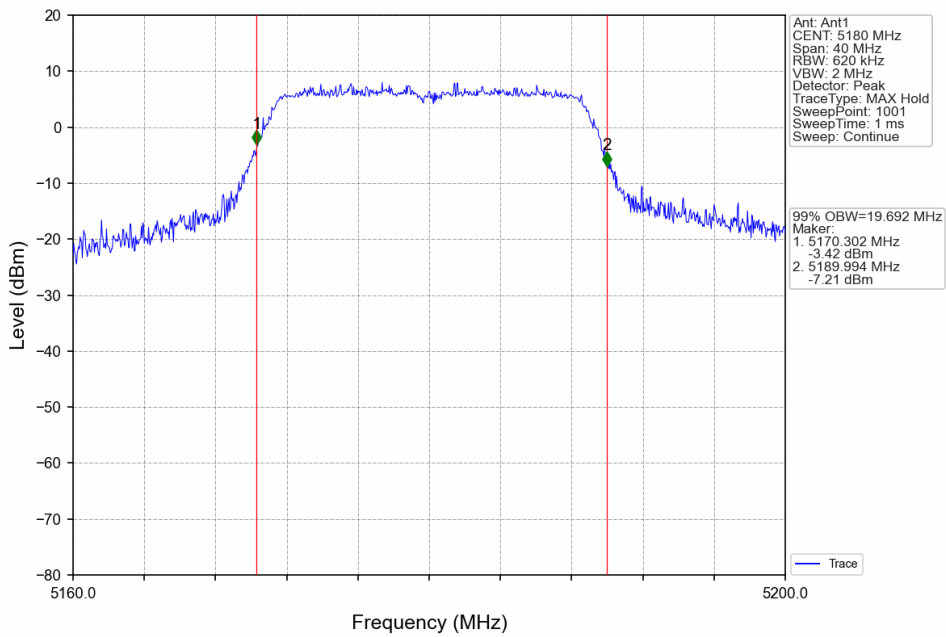
1.1.2 Test Graph



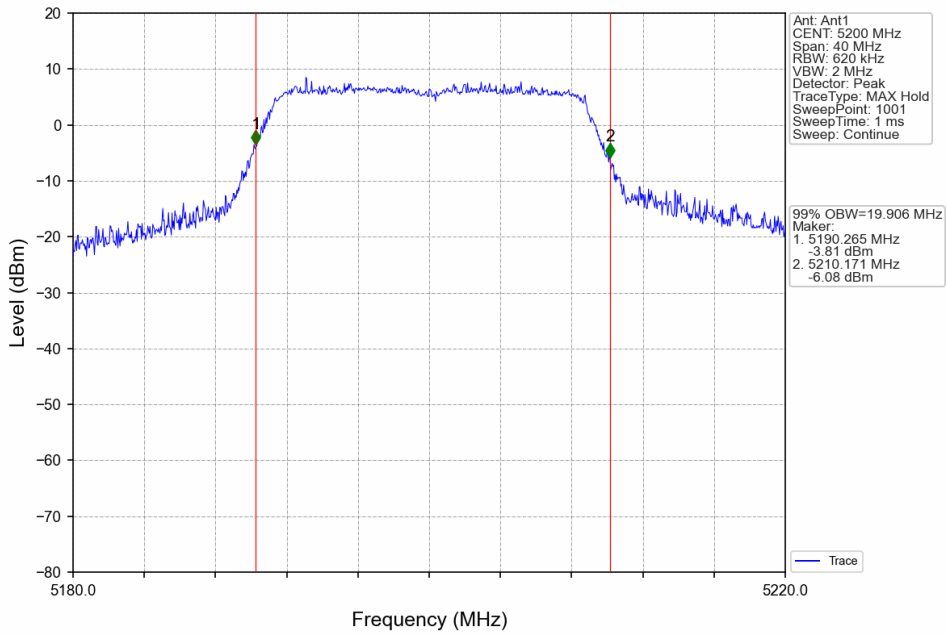
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



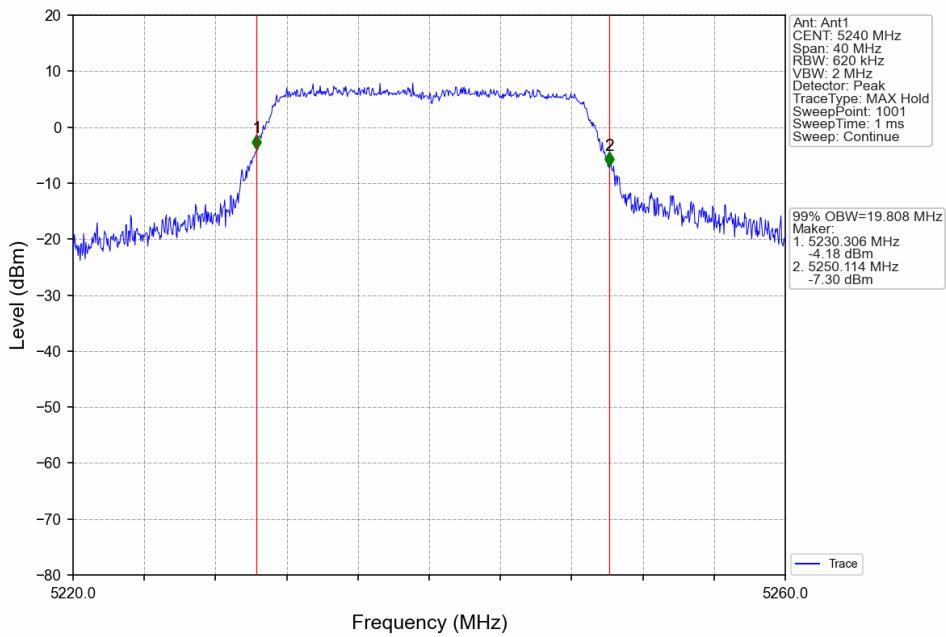
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

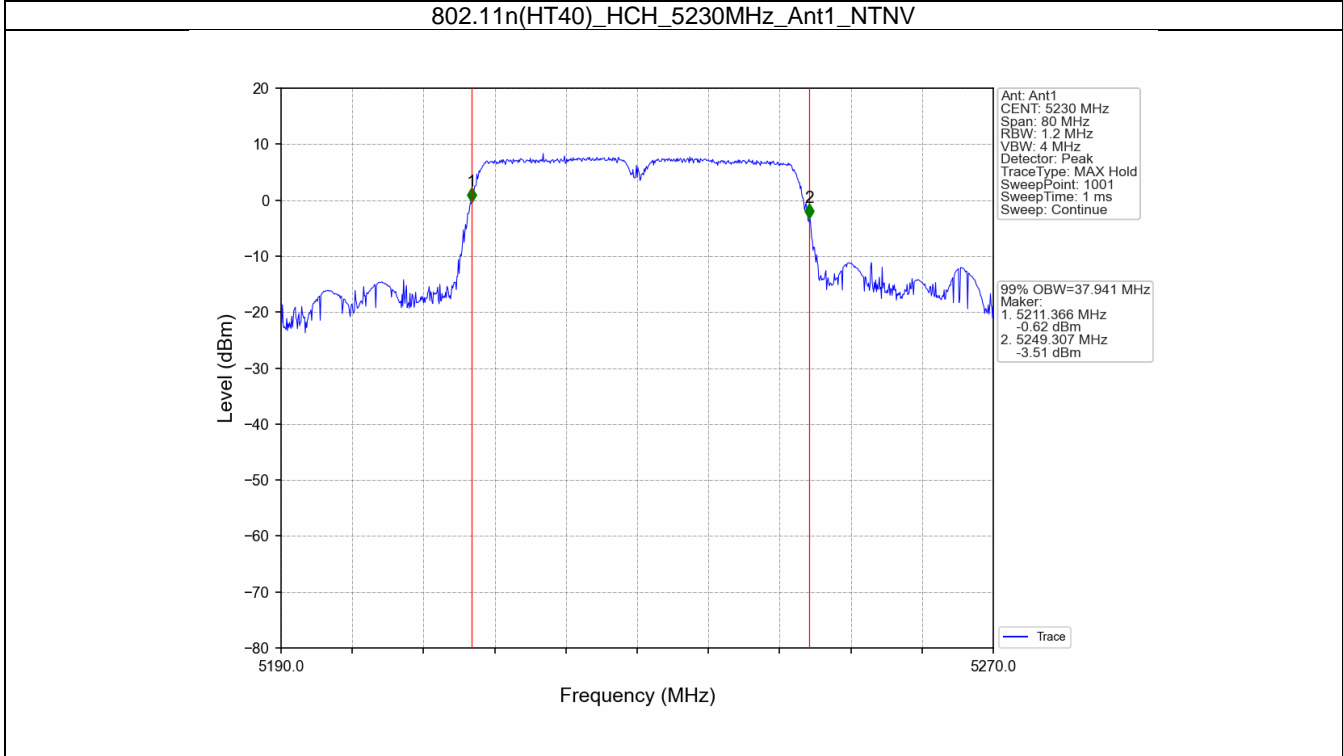
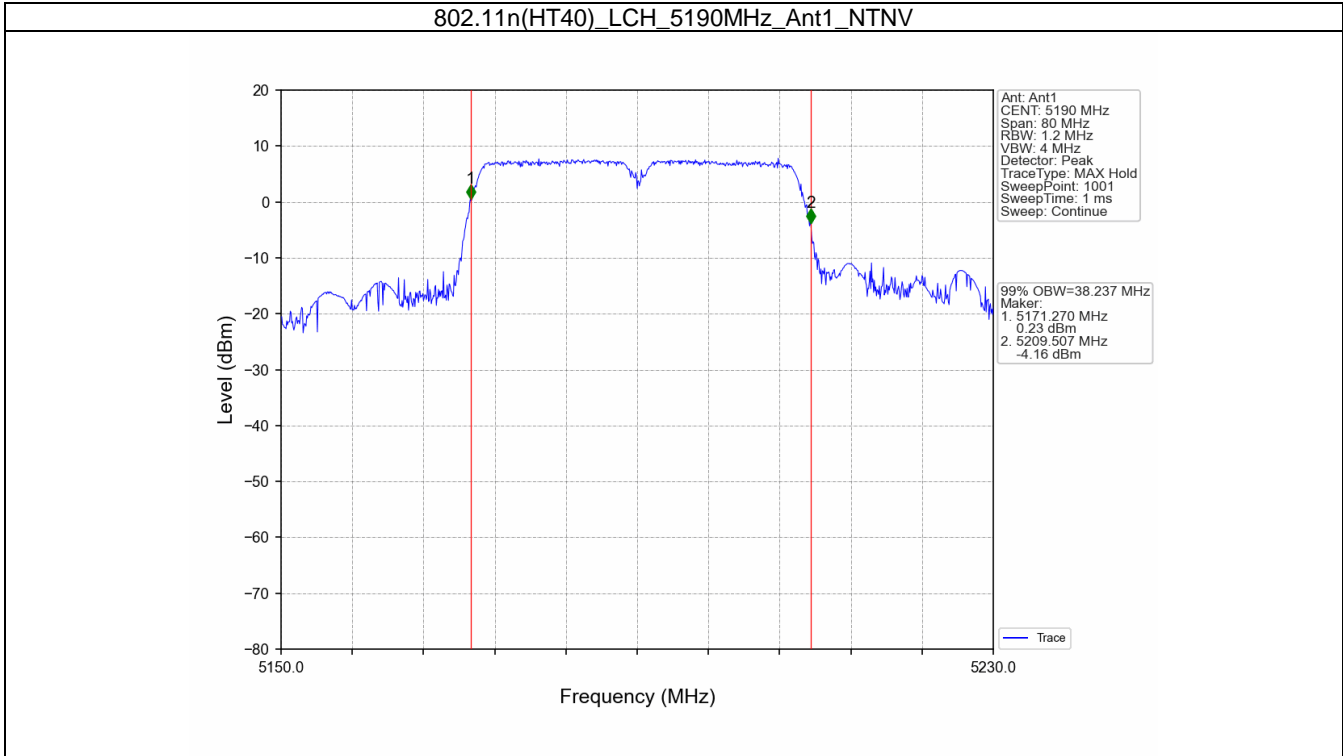


802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



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



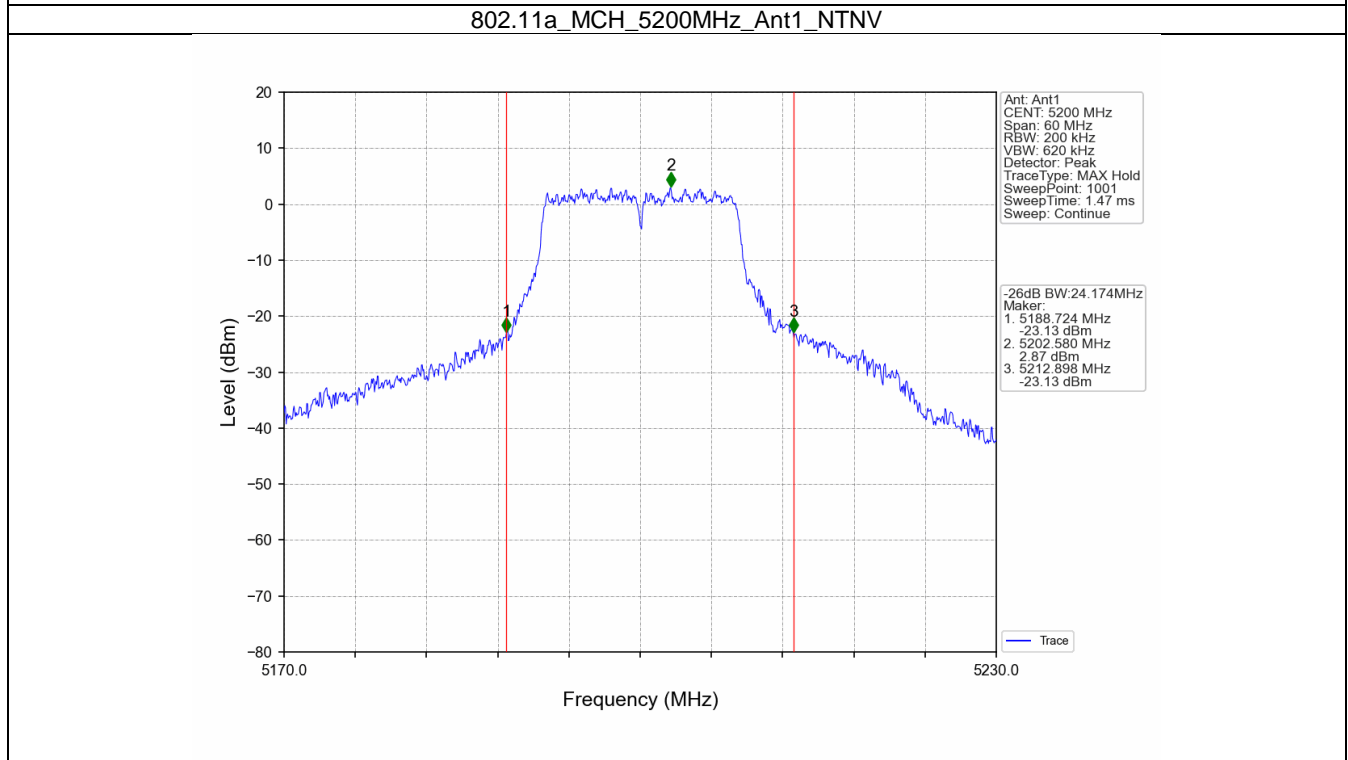
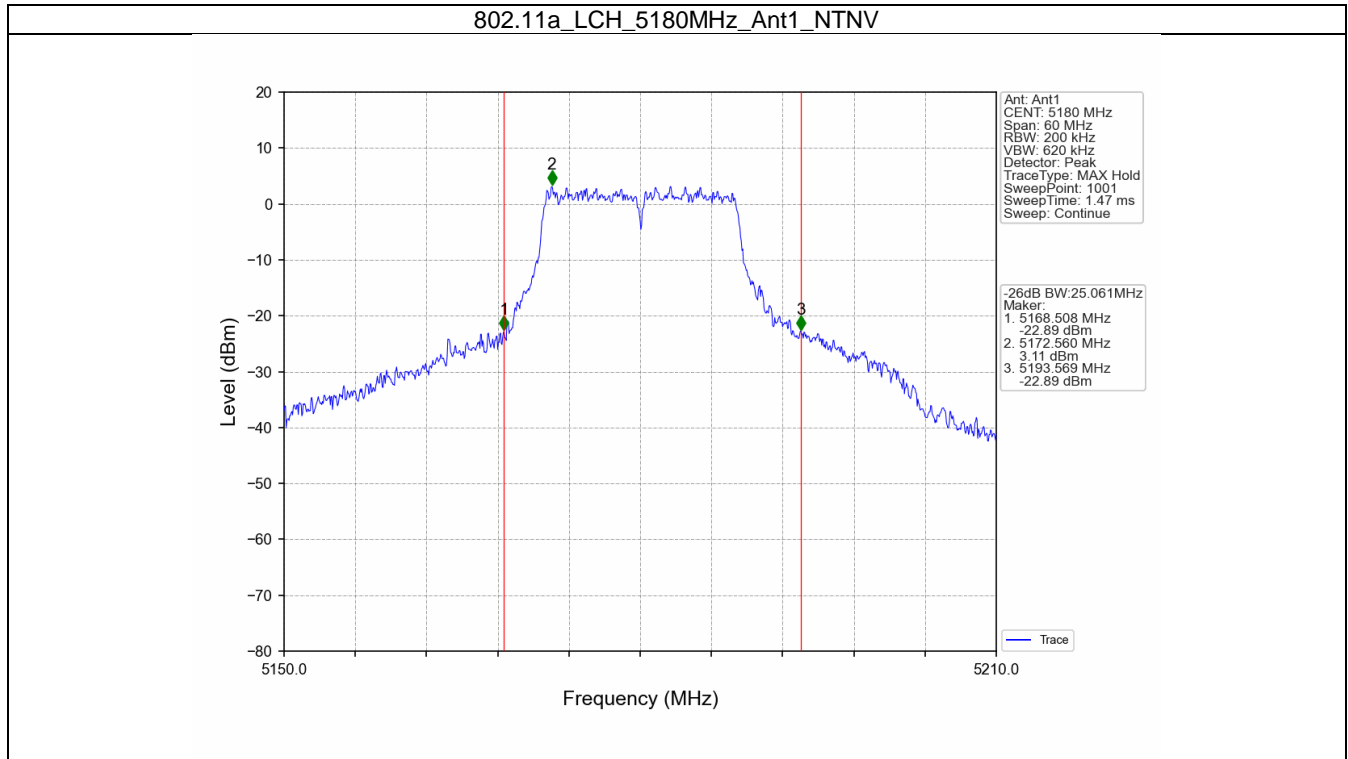


## 1.2 26dB BW

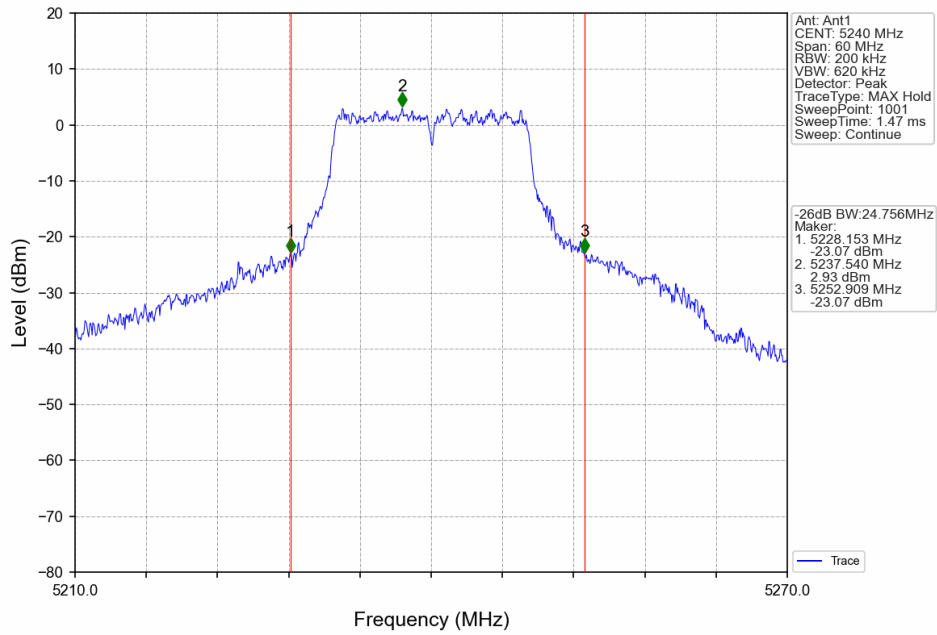
### 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	25.061	/	Pass
		5200	1	24.174	/	Pass
		5240	1	24.756	/	Pass
802.11n (HT20)	SISO	5180	1	32.100	/	Pass
		5200	1	29.864	/	Pass
		5240	1	32.056	/	Pass
802.11n (HT40)	SISO	5190	1	67.767	/	Pass
		5230	1	67.527	/	Pass

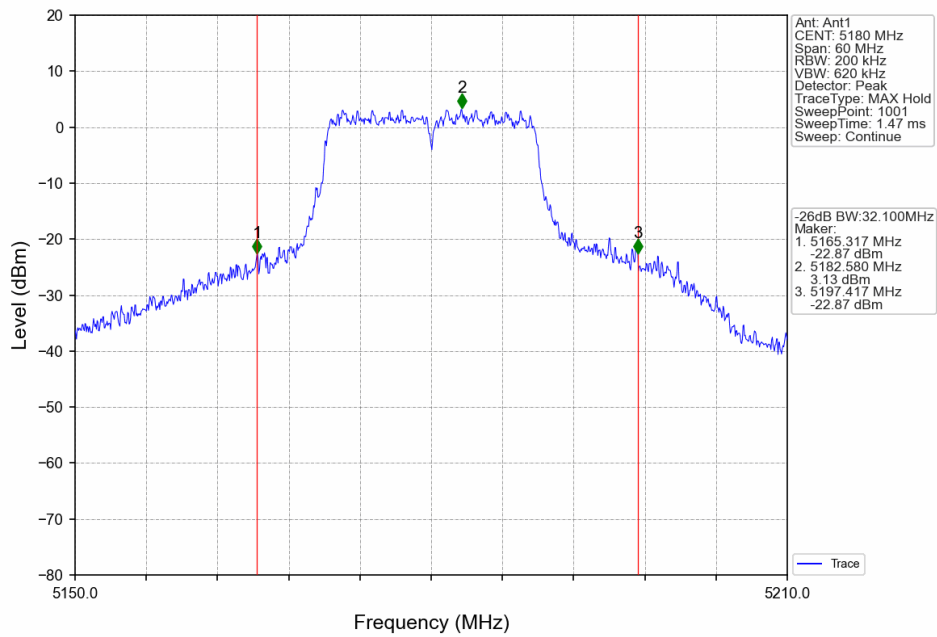
1.2.2 Test Graph



802.11a\_HCH\_5240MHz\_Ant1\_NTNV

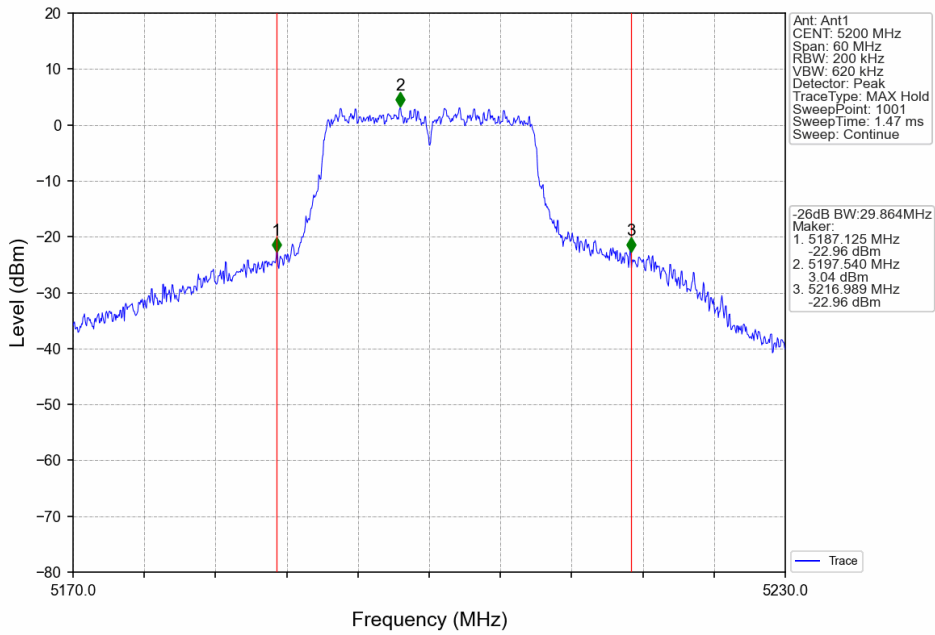


802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

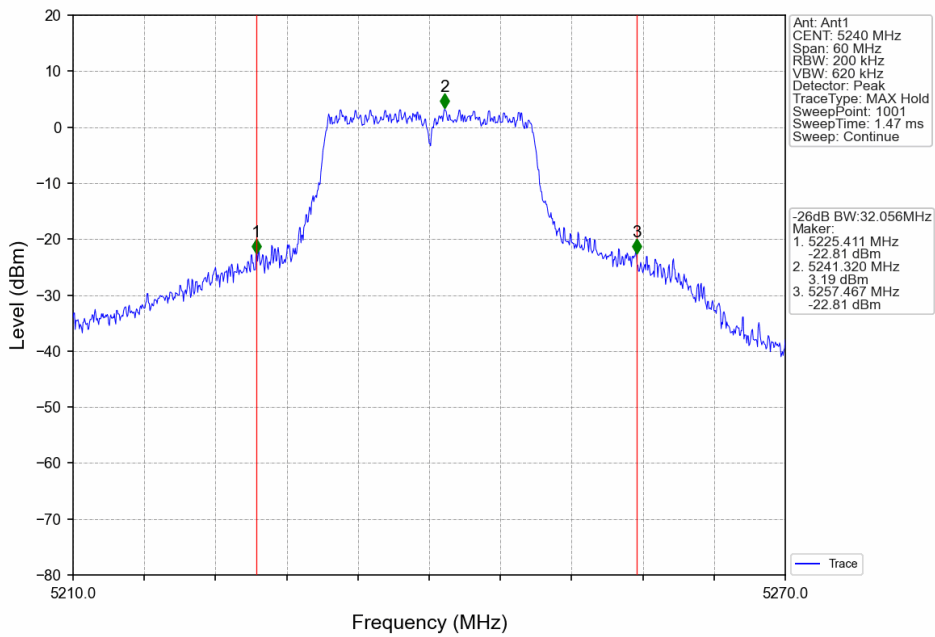


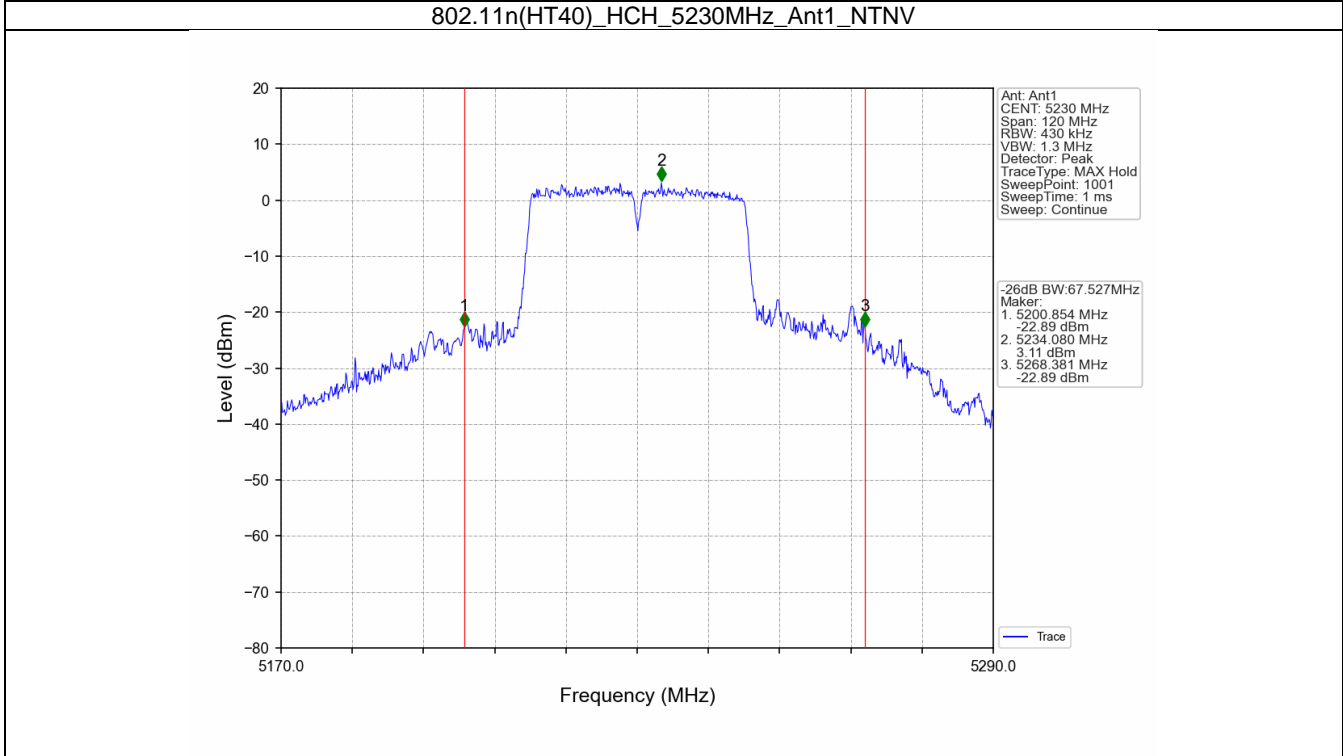
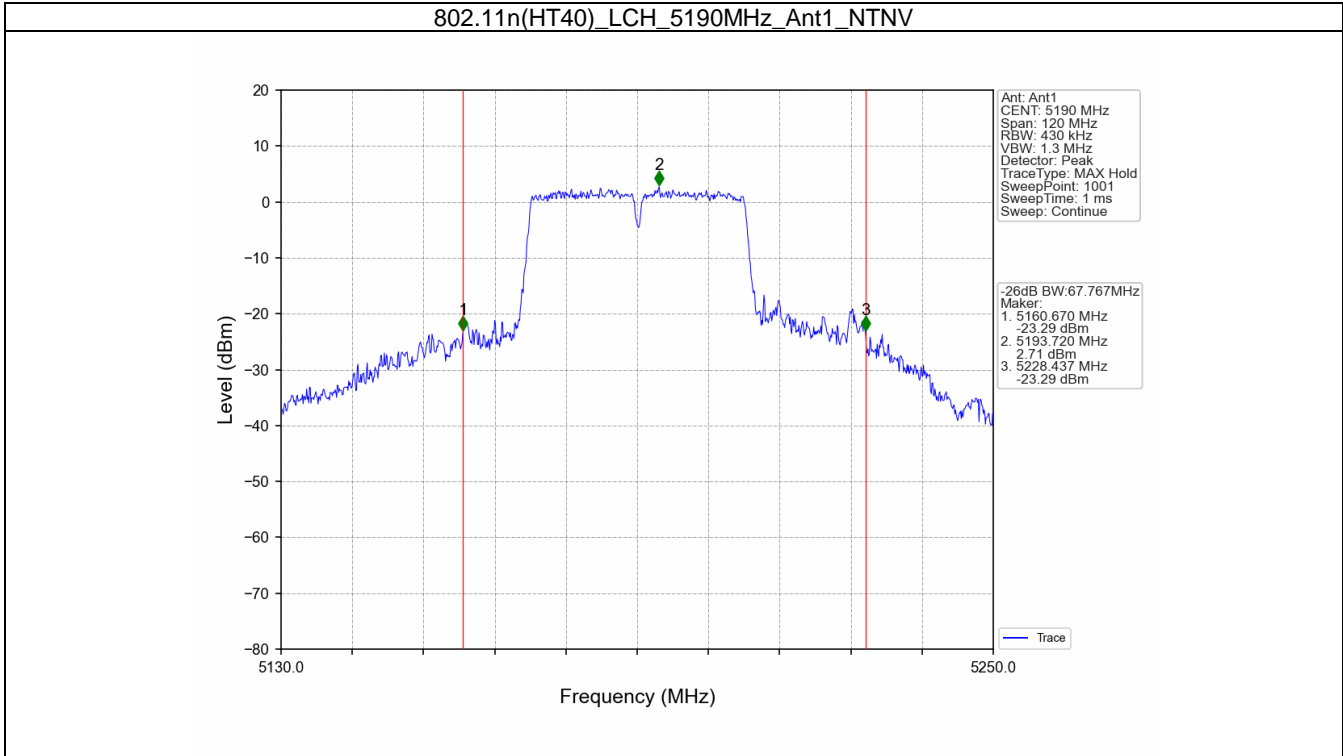


802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



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





## 2. Maximum Conducted Output Power

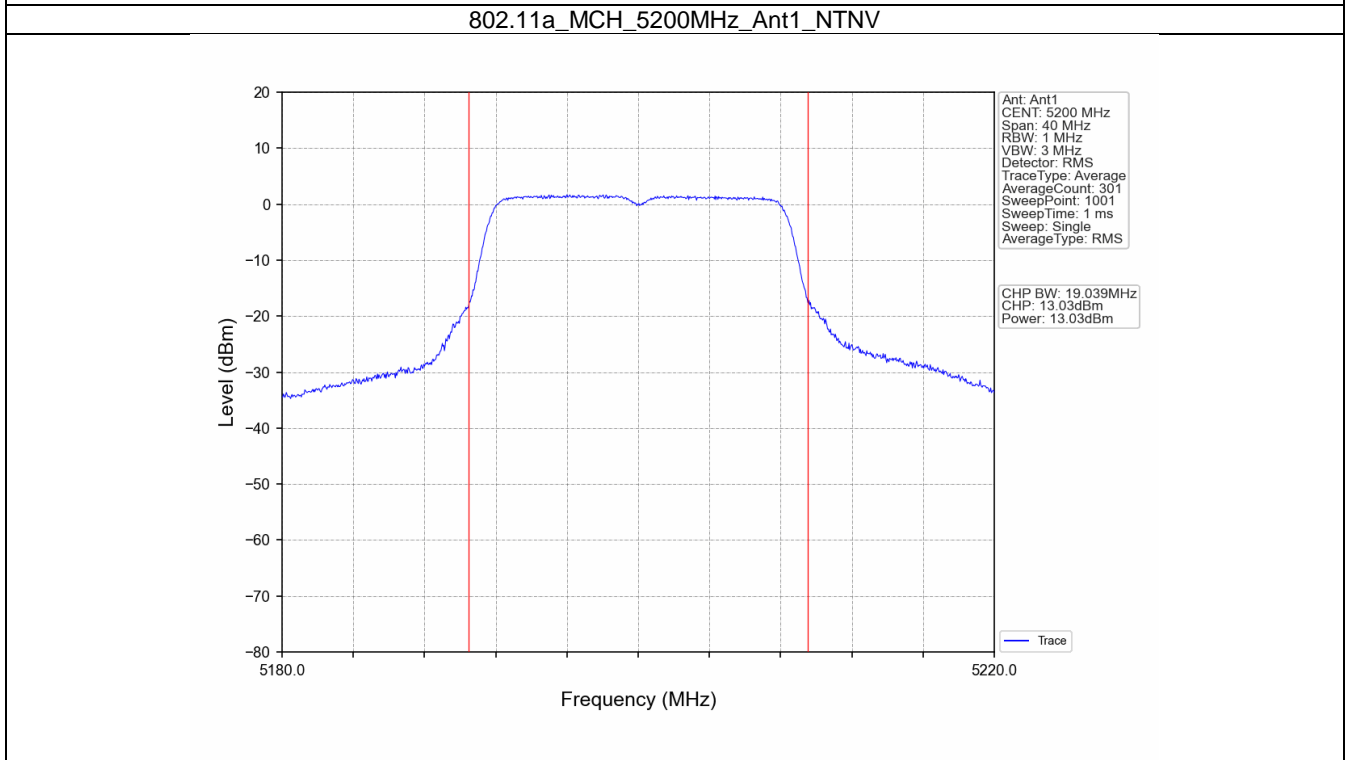
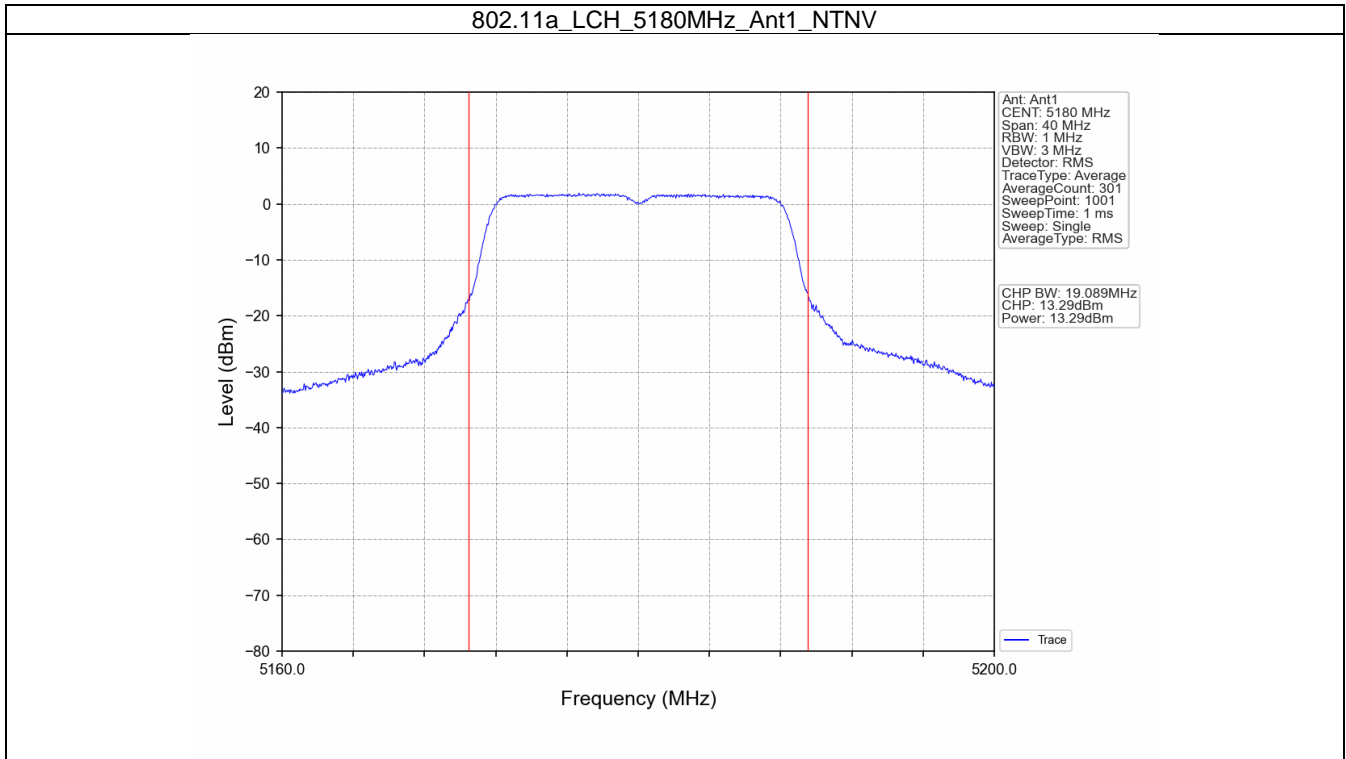
### 2.1 Power

#### 2.1.1 Test Result

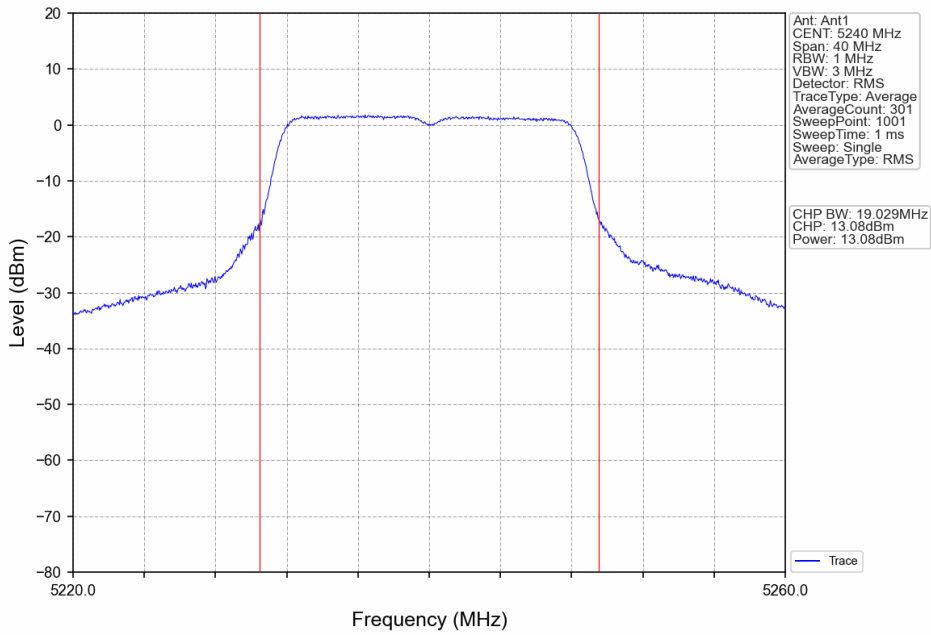
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.29	<=23.98	Pass
		5200	13.03	<=23.98	Pass
		5240	13.08	<=23.98	Pass
802.11n (HT20)	SISO	5180	13.22	<=23.98	Pass
		5200	13.15	<=23.98	Pass
		5240	13.15	<=23.98	Pass
802.11n (HT40)	SISO	5190	12.70	<=23.98	Pass
		5230	12.65	<=23.98	Pass

Note1: Antenna Gain: Ant1: 3.86dBi;

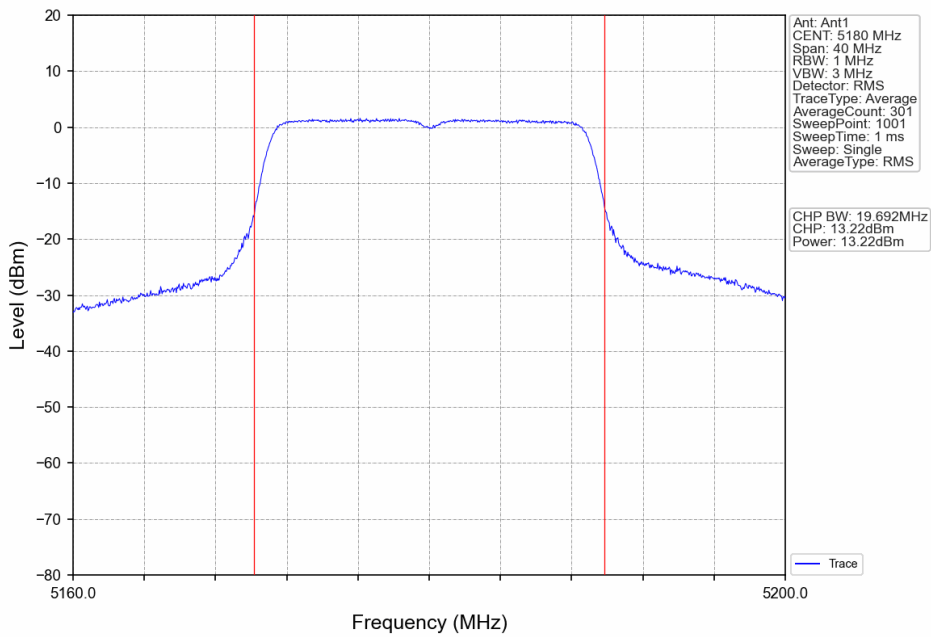
2.1.2 Test Graph



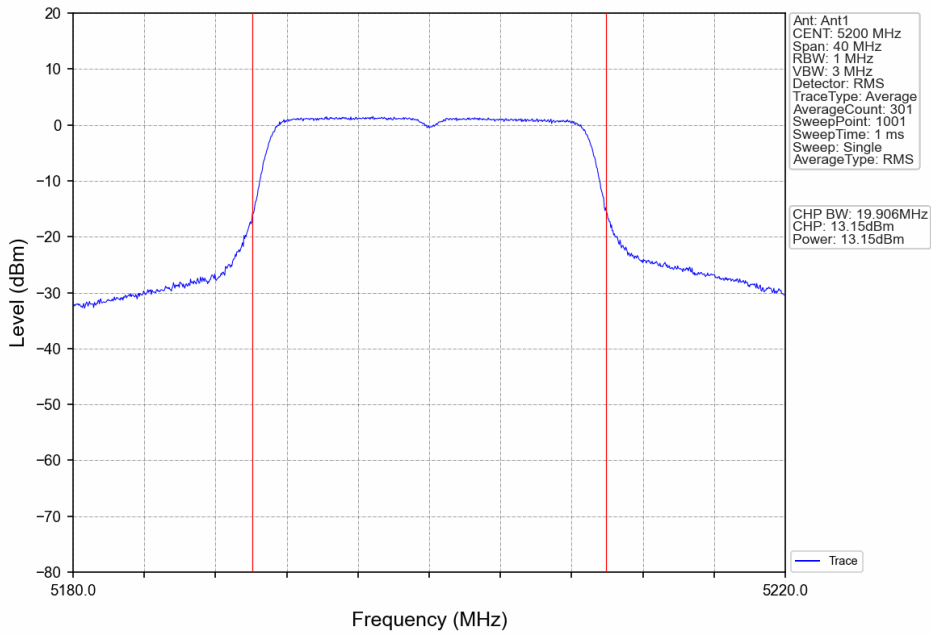
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



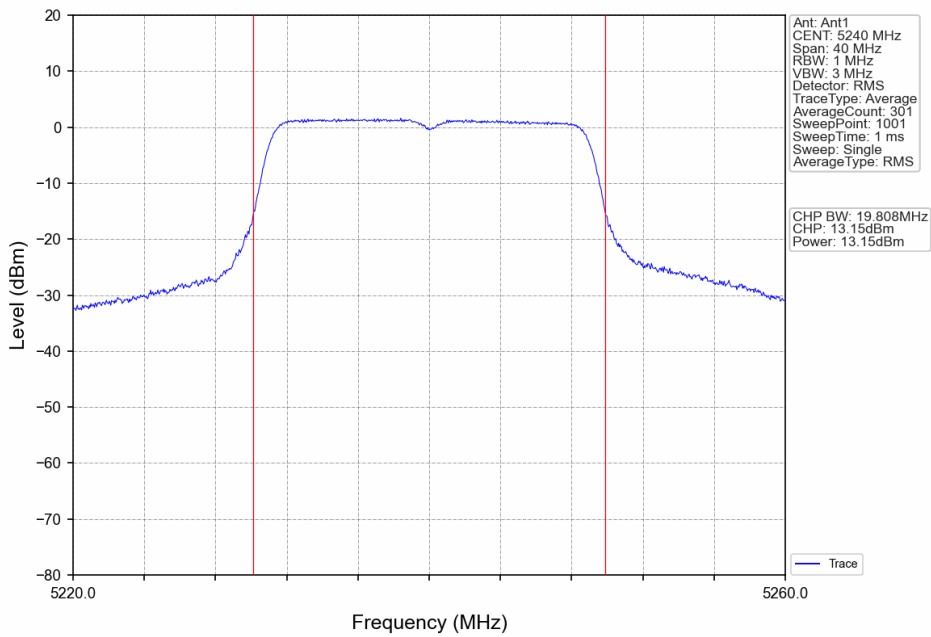
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



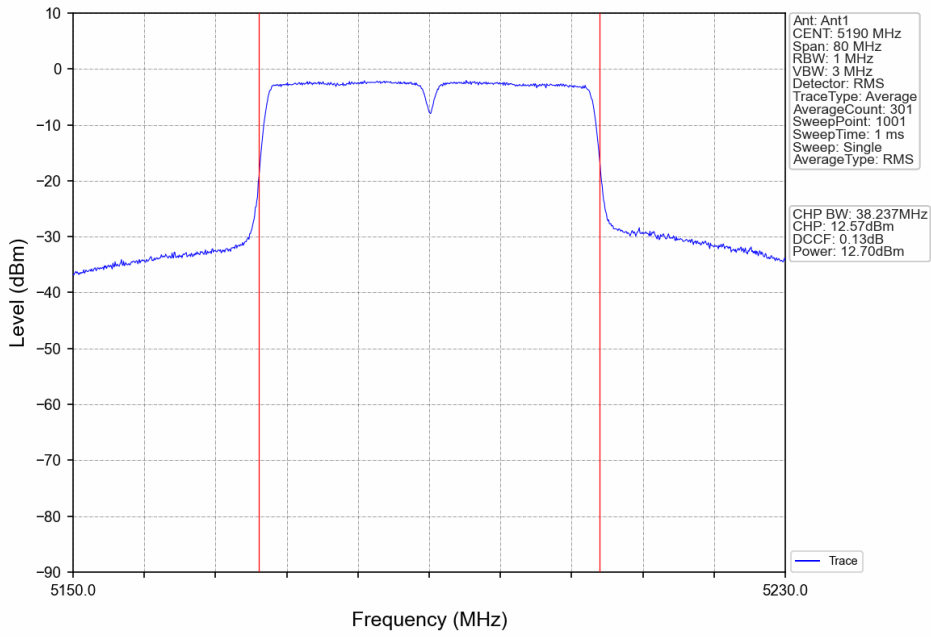
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



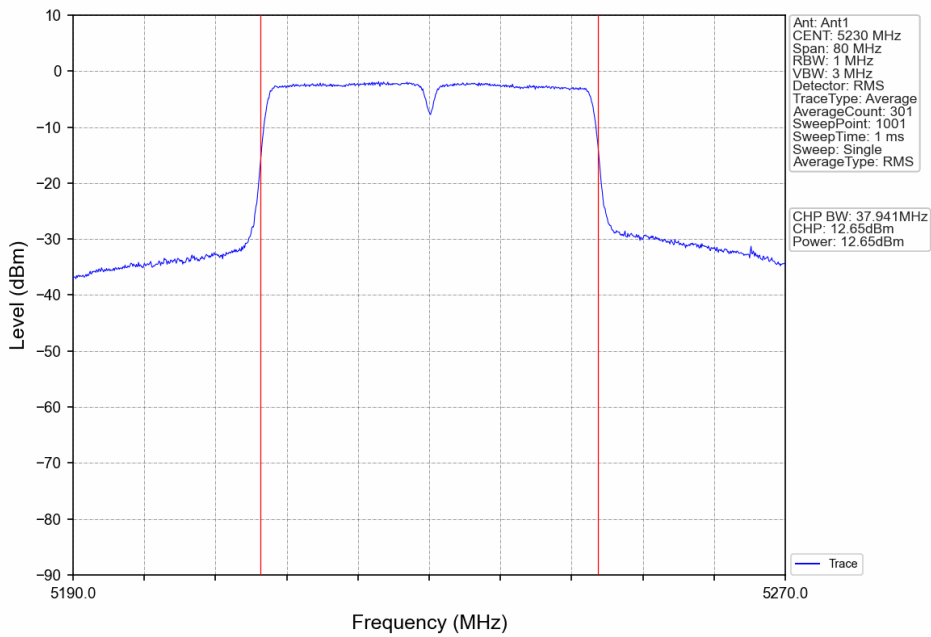
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



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



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



### 3. Maximum Power Spectral Density

#### 3.1 PSD

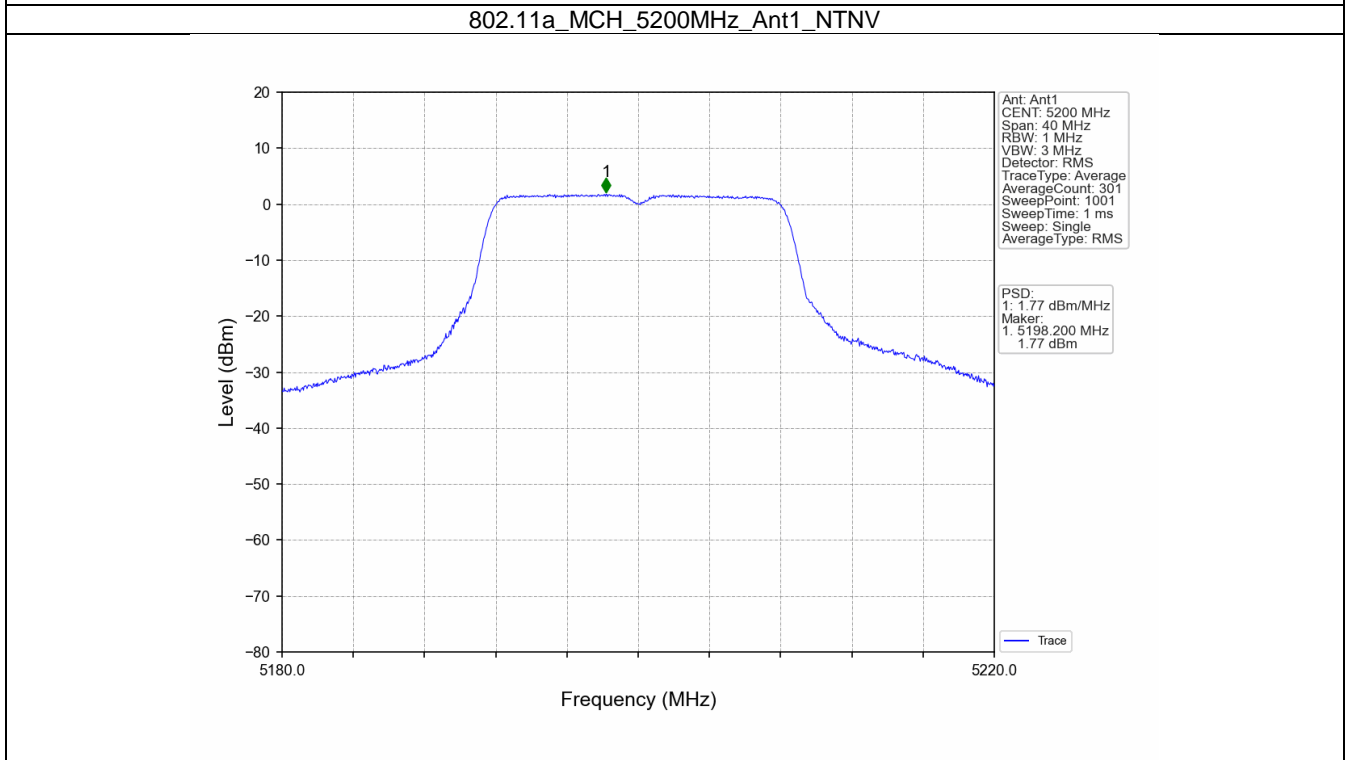
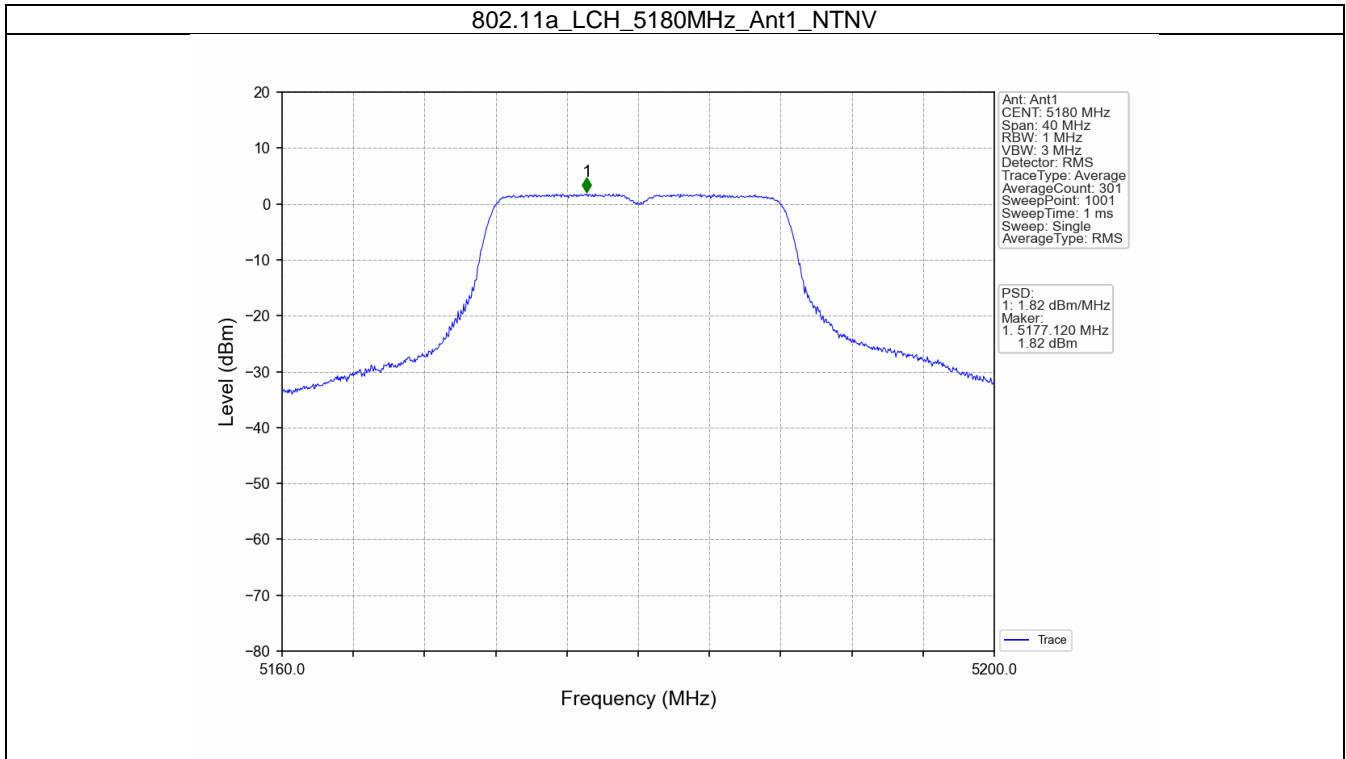
##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	1.82	<=11	Pass
		5200	1.77	<=11	Pass
		5240	1.79	<=11	Pass
802.11n (HT20)	SISO	5180	1.53	<=11	Pass
		5200	1.52	<=11	Pass
		5240	1.52	<=11	Pass
802.11n (HT40)	SISO	5190	-1.95	<=11	Pass
		5230	-1.86	<=11	Pass

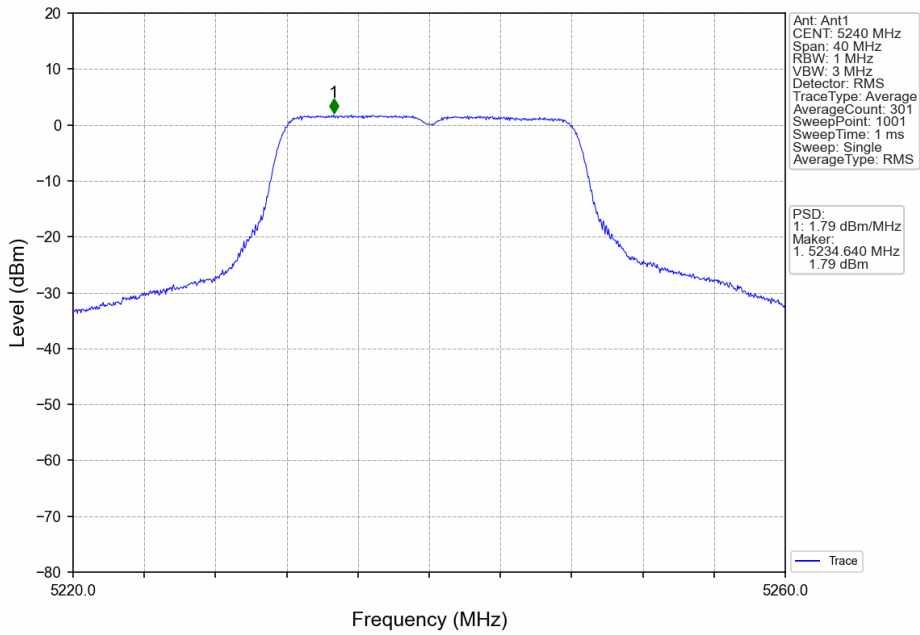
Note1: Antenna Gain: Ant1: 3.86dBi;



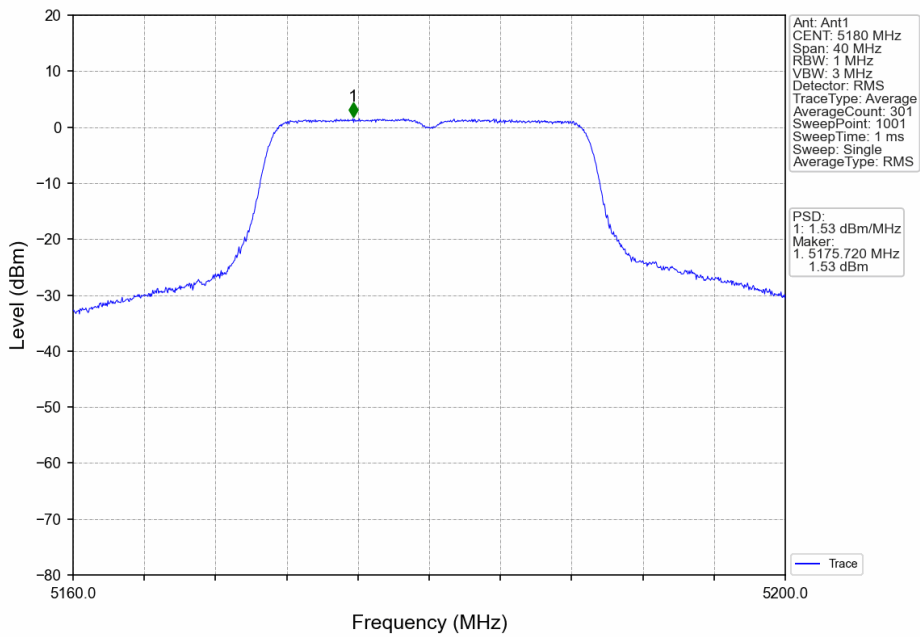
3.1.2 Test Graph



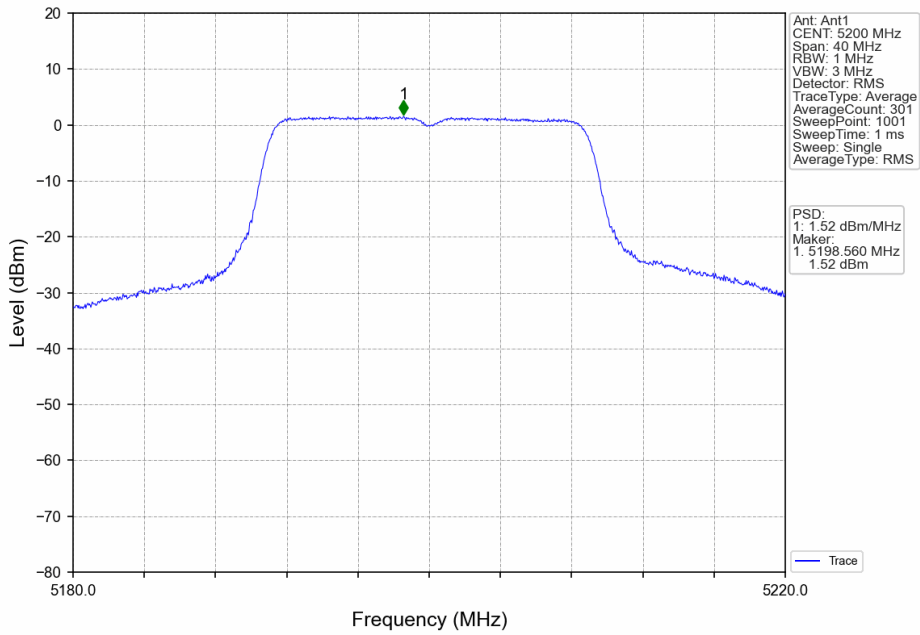
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



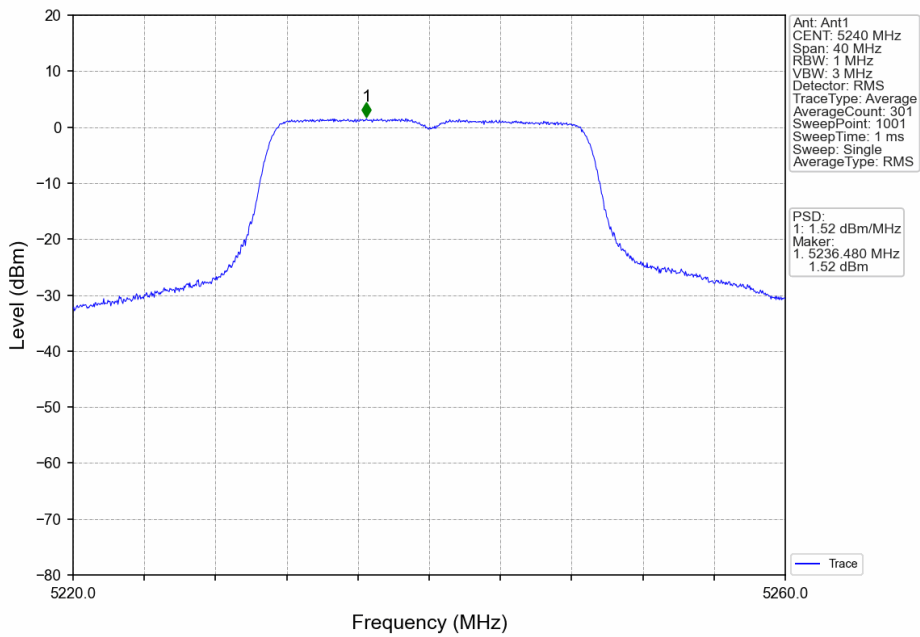
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



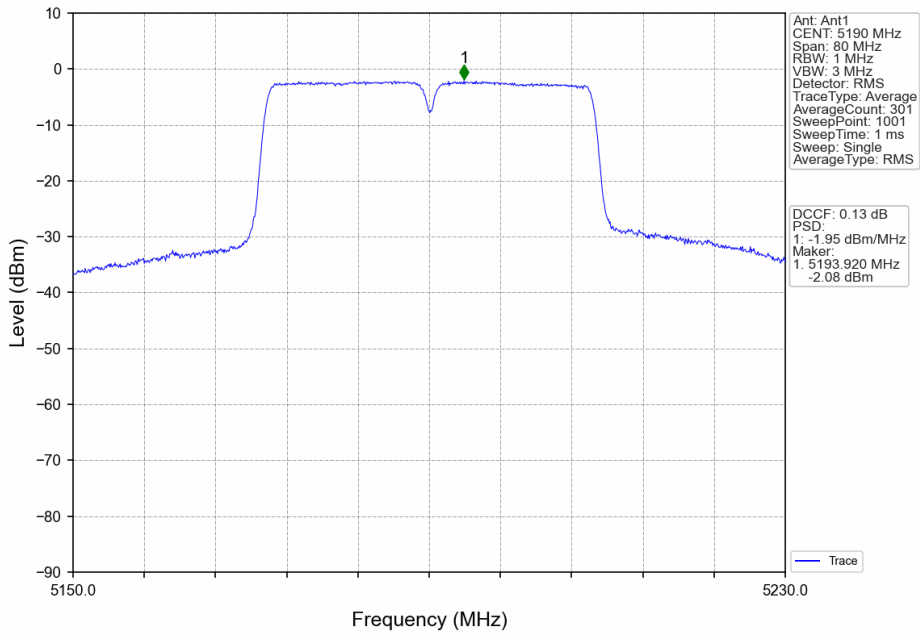
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



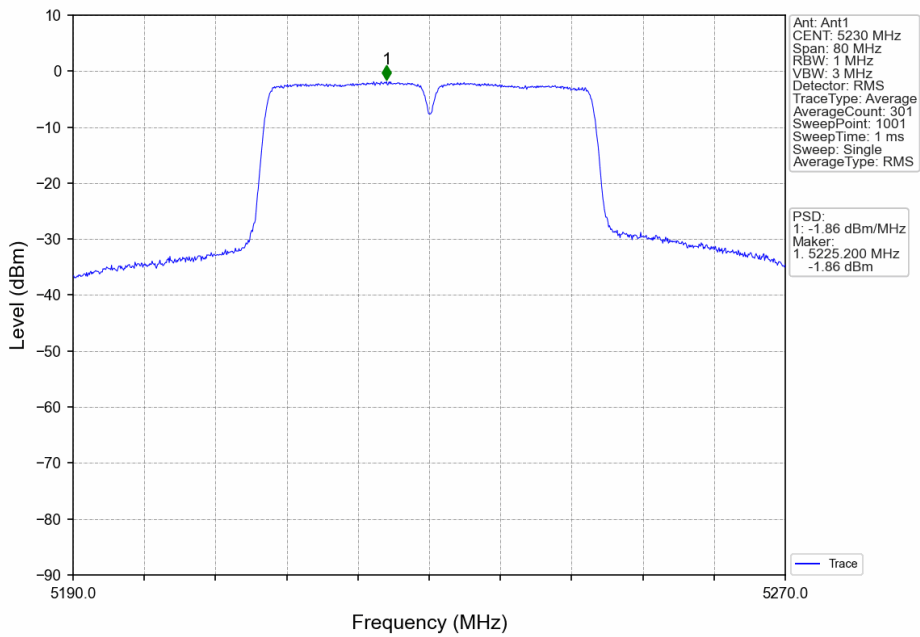
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



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



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



### 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	5180.004	5150 to 5250	Pass			
				120	5180.004	5150 to 5250	Pass			
				138	5180.004	5150 to 5250	Pass			
			5200	-30	120	5180.004	5150 to 5250	Pass		
					-20	120	5180.004	5150 to 5250	Pass	
						-10	120	5180.004	5150 to 5250	Pass
				5240			0	120	5180.004	5150 to 5250
					10			120	5180.004	5150 to 5250
						30		120	5180.004	5150 to 5250
		40					120	5180.004	5150 to 5250	Pass
					50		120	5180.004	5150 to 5250	Pass
						5190	20	102	5200.004	5150 to 5250
		120	5200.004					5150 to 5250	Pass	
		138	5200.004		5150 to 5250			Pass		
		5230	-30		120		5200.004	5150 to 5250	Pass	
				-20	120		5200.004	5150 to 5250	Pass	
					-10		120	5200.004	5150 to 5250	Pass
			5190				0	120	5200.004	5150 to 5250
				10				120	5200.004	5150 to 5250
					30			120	5200.004	5150 to 5250
						5190	40	120	5200.004	5150 to 5250
				50				120	5200.004	5150 to 5250
					20			102	5240.004	5150 to 5250
		120					5240.004	5150 to 5250	Pass	
		138		5240.004			5150 to 5250	Pass		
		5190		-30	120		5240.004	5150 to 5250	Pass	
			-20		120		5240.004	5150 to 5250	Pass	
					-10		120	5240.004	5150 to 5250	Pass
				5190			0	120	5240.004	5150 to 5250
			10			120		5240.004	5150 to 5250	Pass
					30	120		5240.004	5150 to 5250	Pass
						5190	40	120	5240.004	5150 to 5250
			50					120	5240.004	5150 to 5250
					20			102	5190.004	5150 to 5250
		120					5190.004	5150 to 5250	Pass	
		138	5190.004				5150 to 5250	Pass		
		5190	-30		120		5190.004	5150 to 5250	Pass	
				-20	120		5190.004	5150 to 5250	Pass	
					-10		120	5190.004	5150 to 5250	Pass
			5190				0	120	5190.004	5150 to 5250
				10		120		5190.004	5150 to 5250	Pass
					30	120		5190.004	5150 to 5250	Pass
						5190	40	120	5190.004	5150 to 5250
				50				120	5190.004	5150 to 5250
					20			102	5230.004	5150 to 5250
120	5230.004	5150 to 5250					Pass			
138	5230.004	5150 to 5250		Pass						
-30	120	5230.004		5150 to 5250	Pass					
	-20	120	5230.004	5150 to 5250	Pass					
		-10	120	5230.004	5150 to 5250		Pass			

			0	120	5230.004	5150 to 5250	Pass
			10	120	5230.004	5150 to 5250	Pass
			30	120	5230.004	5150 to 5250	Pass
			40	120	5230.004	5150 to 5250	Pass
			50	120	5230.004	5150 to 5250	Pass