

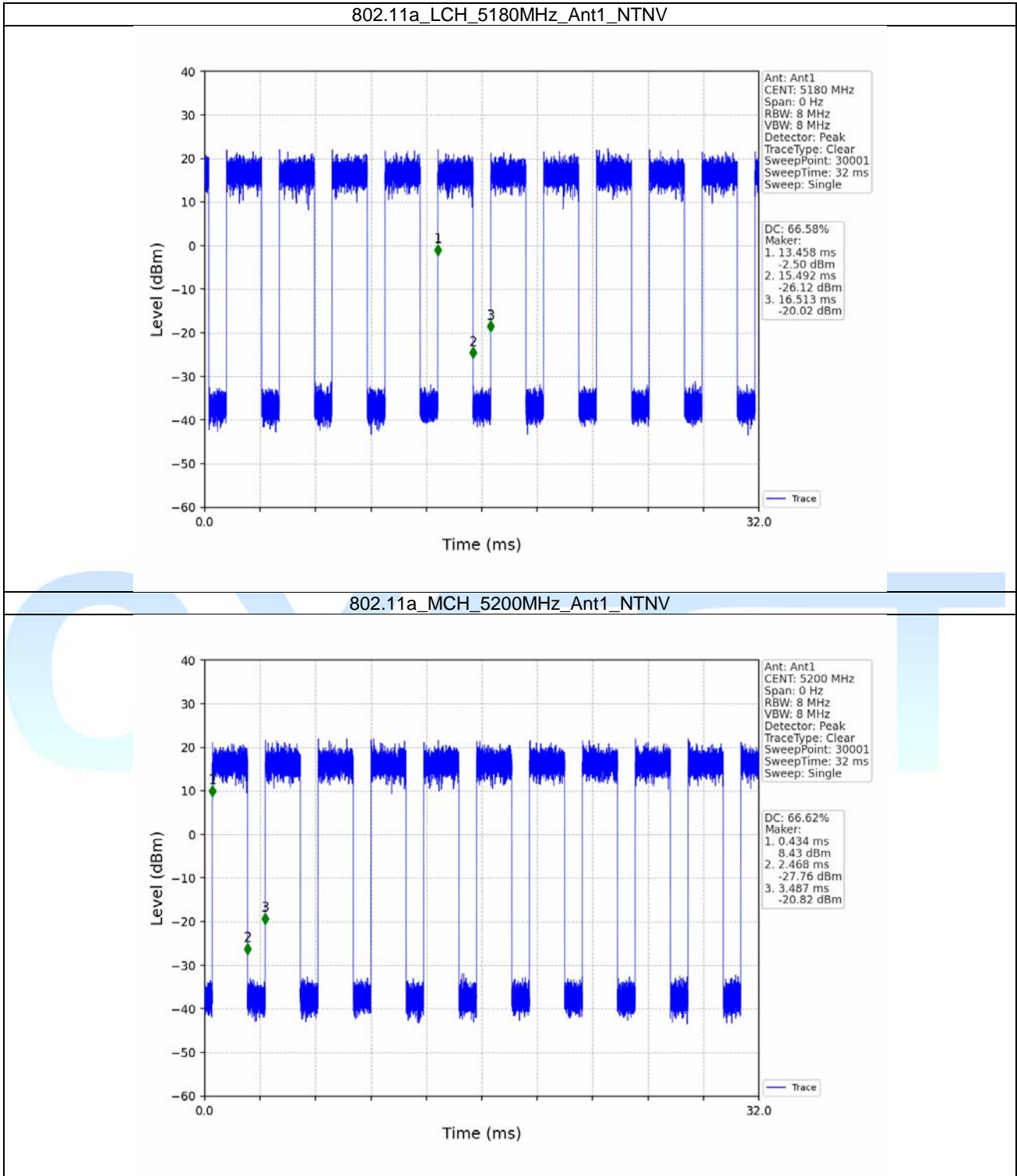
## 1. Duty Cycle

### 1.1 Ant1

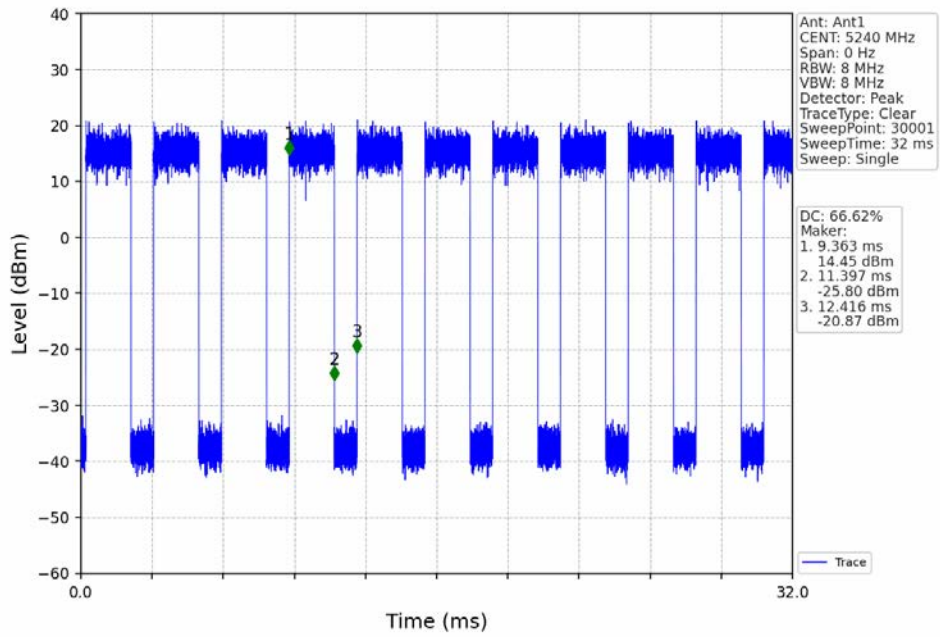
#### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.034	3.055	66.58	1.77	0.16
		5200	2.034	3.053	66.62	1.76	0.06
		5240	2.034	3.053	66.62	1.76	0.13
802.11n (HT20)	SISO	5180	1.895	2.945	64.35	1.91	0.80
		5200	1.894	2.914	65.00	1.87	0.11
		5240	1.895	2.913	65.05	1.87	0.10
802.11n (HT40)	SISO	5190	0.933	1.955	47.72	3.21	0.20
		5230	0.934	1.954	47.80	3.21	0.18
802.11ac (VHT20)	SISO	5180	1.903	2.924	65.08	1.87	0.07
		5200	1.902	2.997	63.46	1.97	1.72
		5240	1.903	2.924	65.08	1.87	0.13
802.11ac (VHT40)	SISO	5190	0.938	1.956	47.96	3.19	0.12
		5230	0.938	1.956	47.96	3.19	0.08

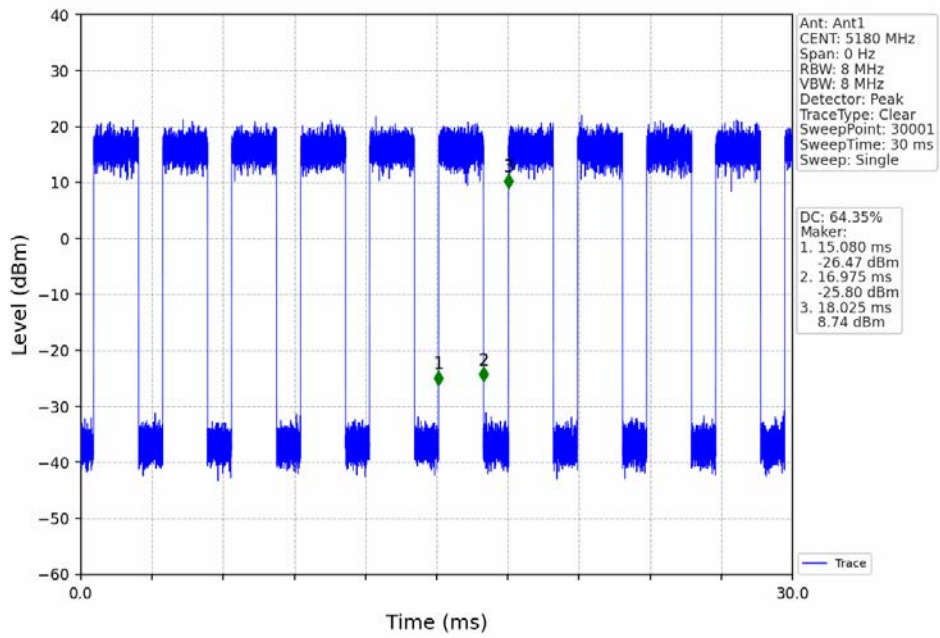
### 1.1.2 Test Graph



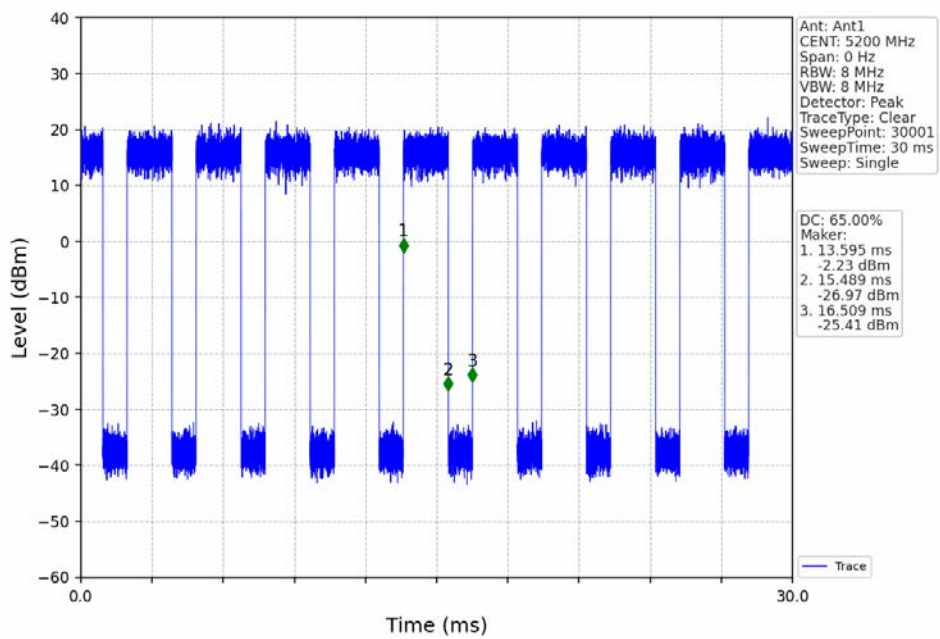
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



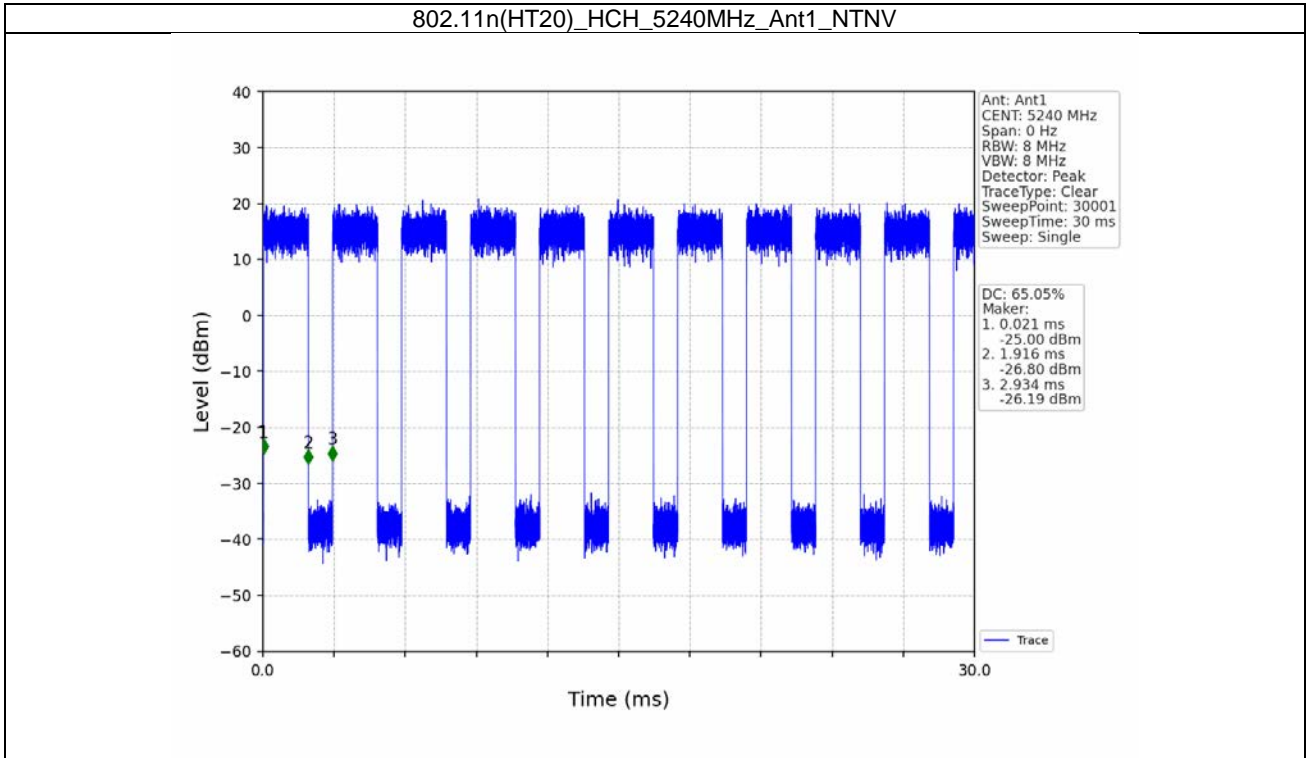
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



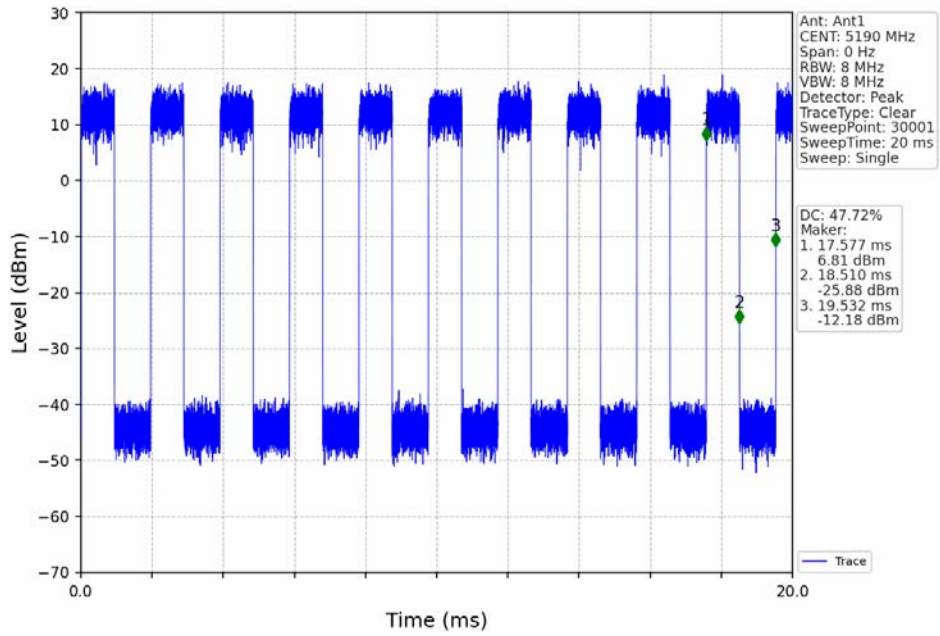
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



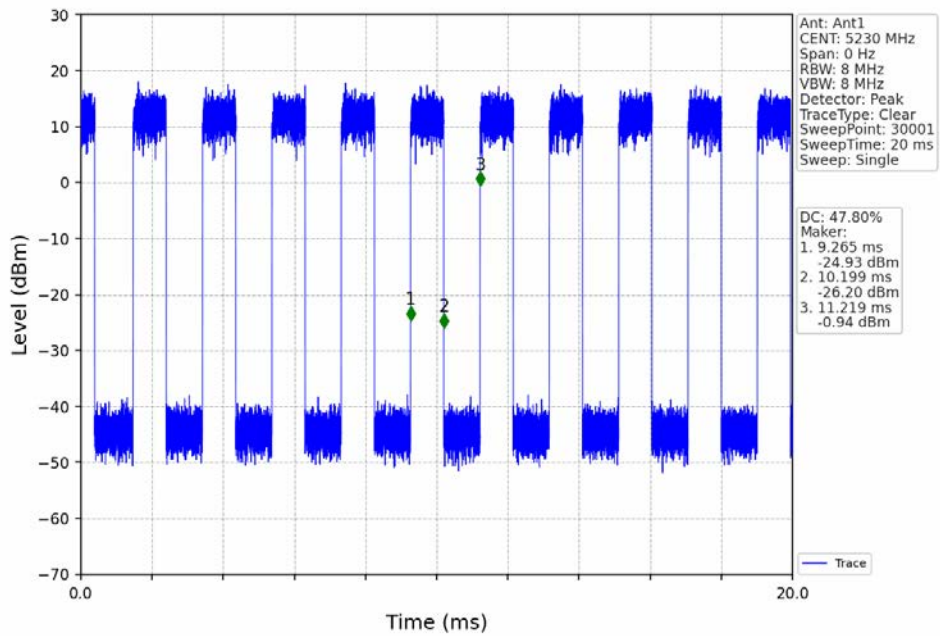
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



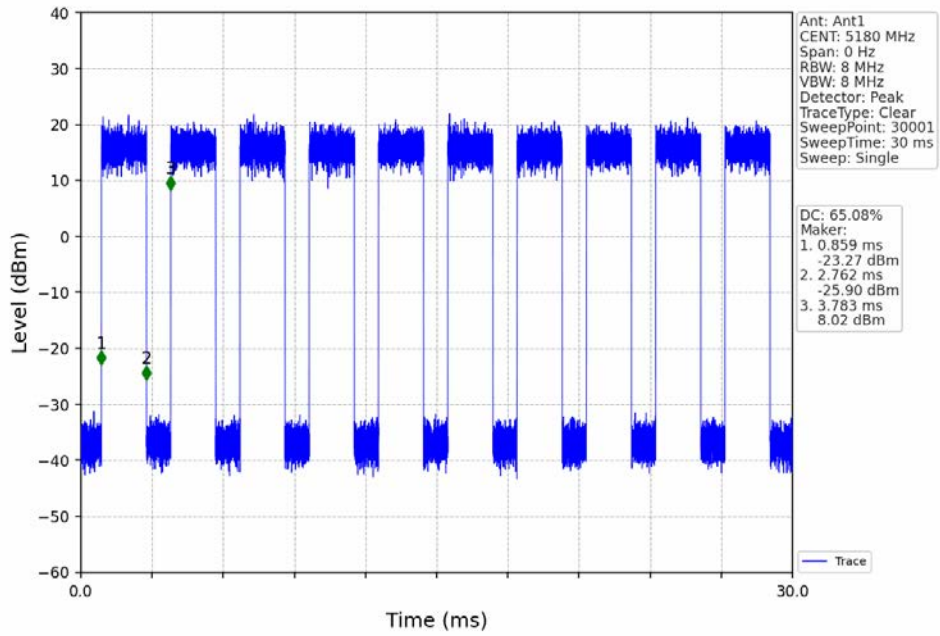
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



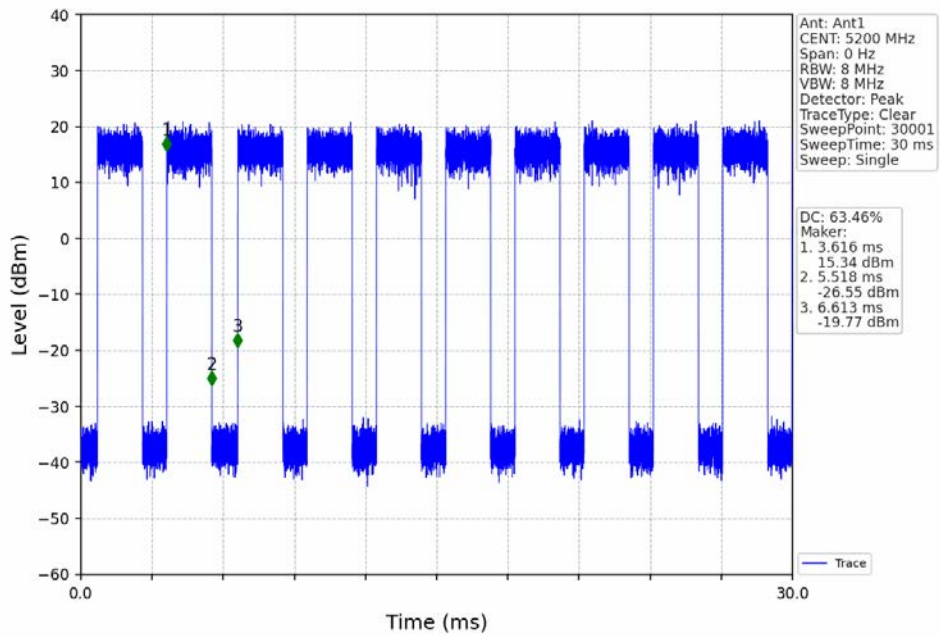
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



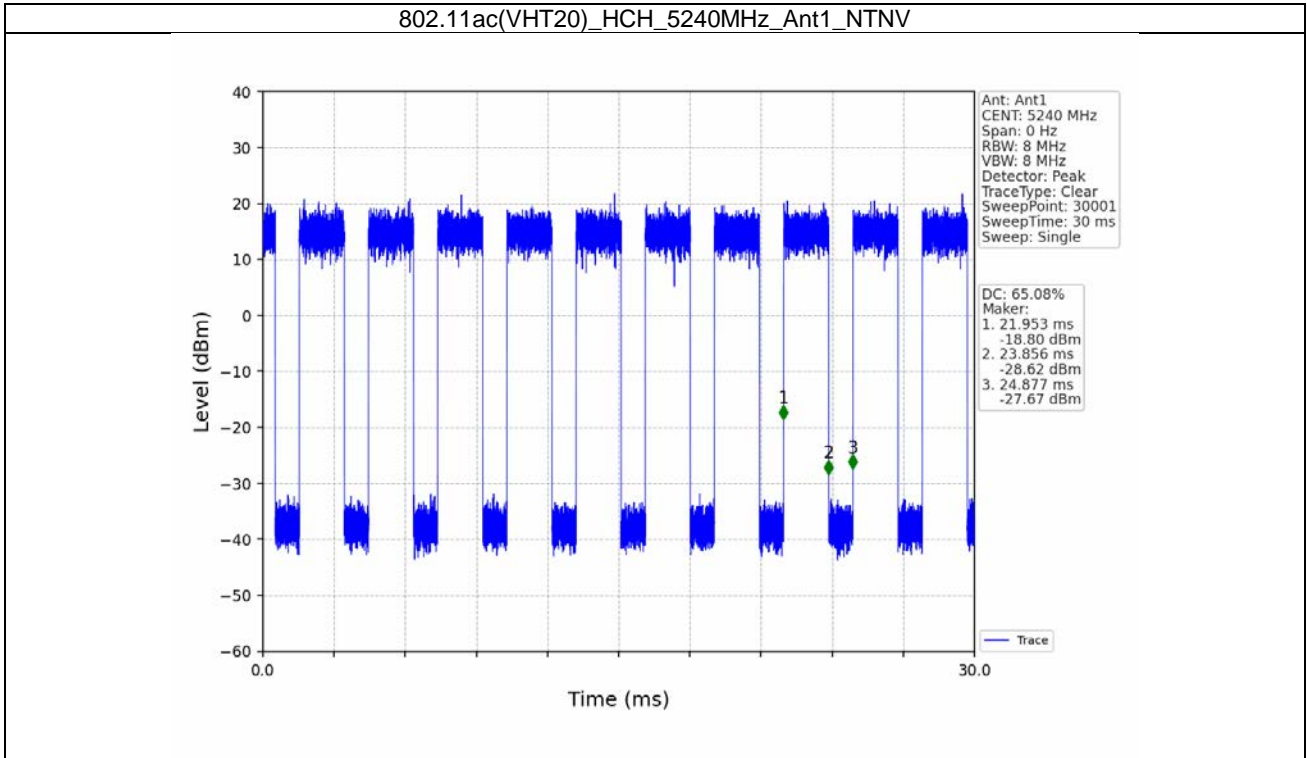
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



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

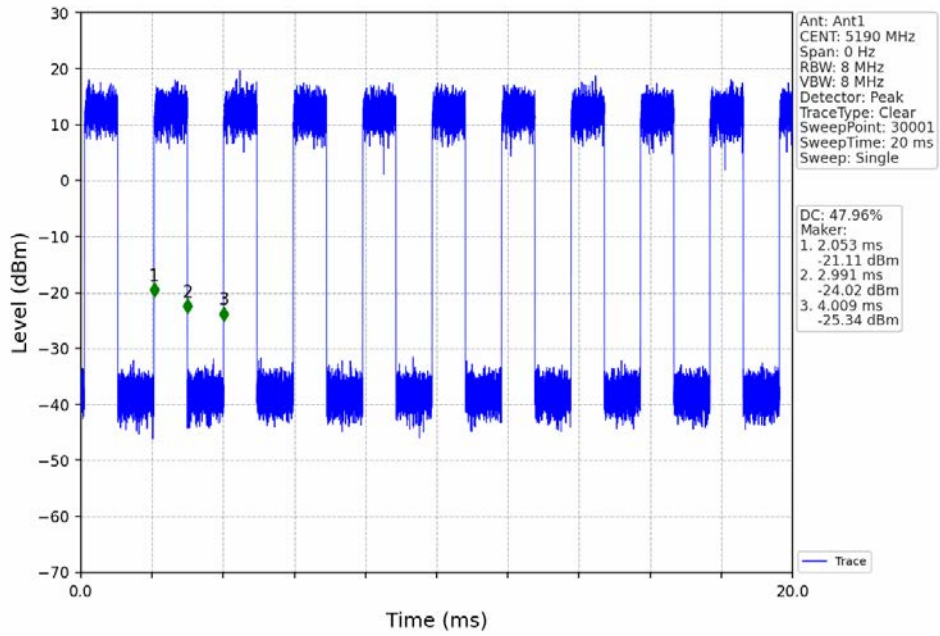


802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV

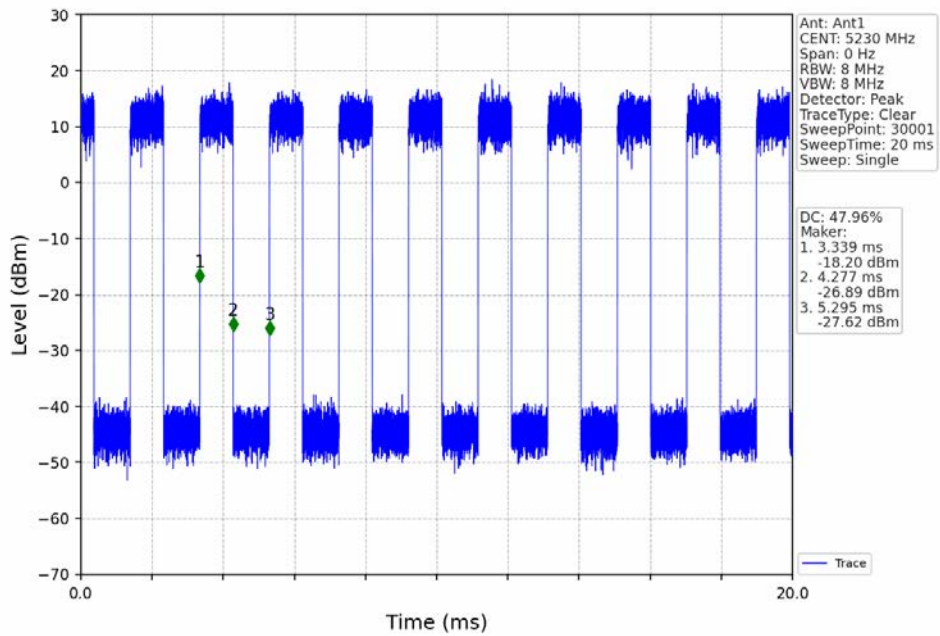




802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



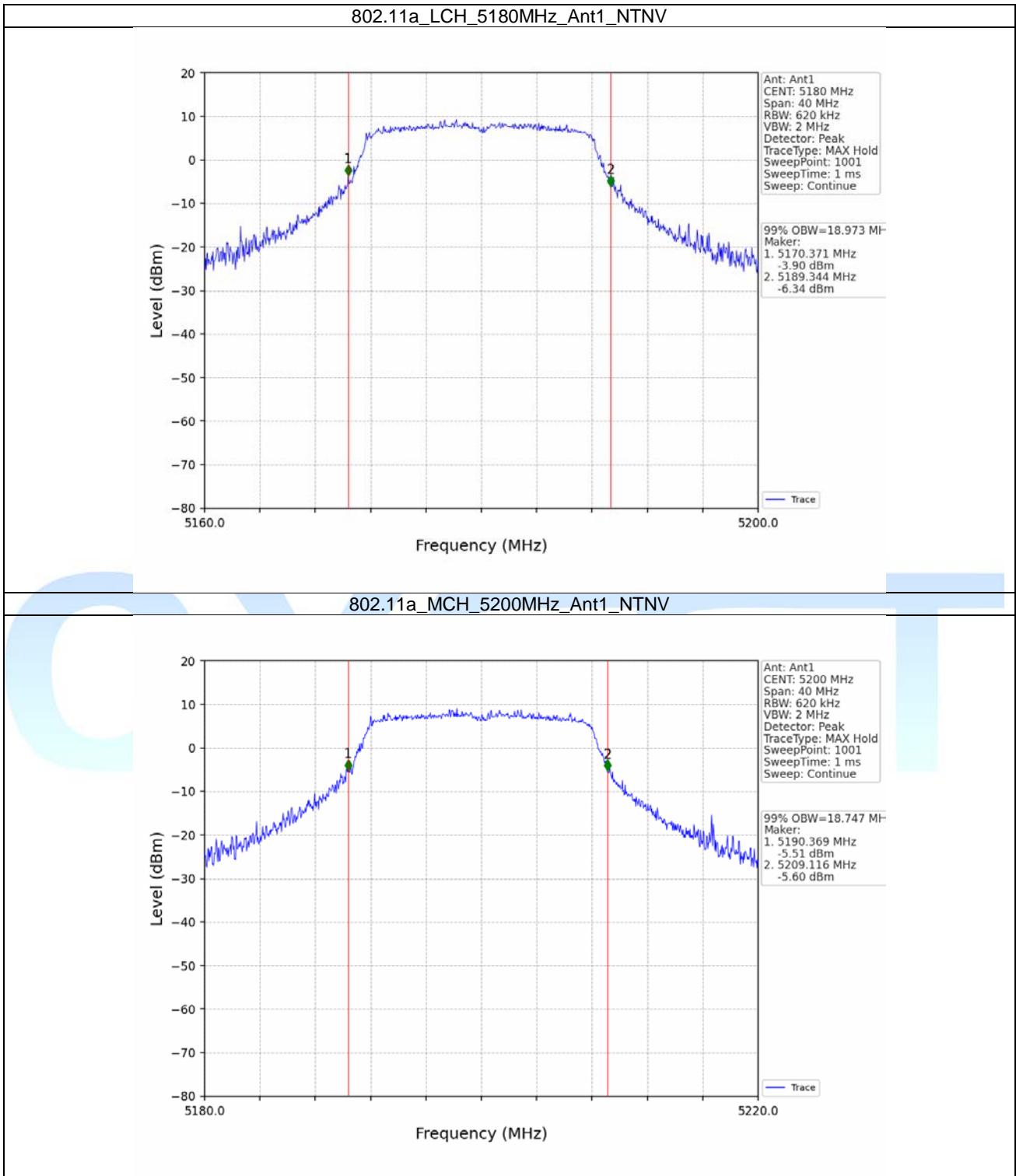
## 2. Bandwidth

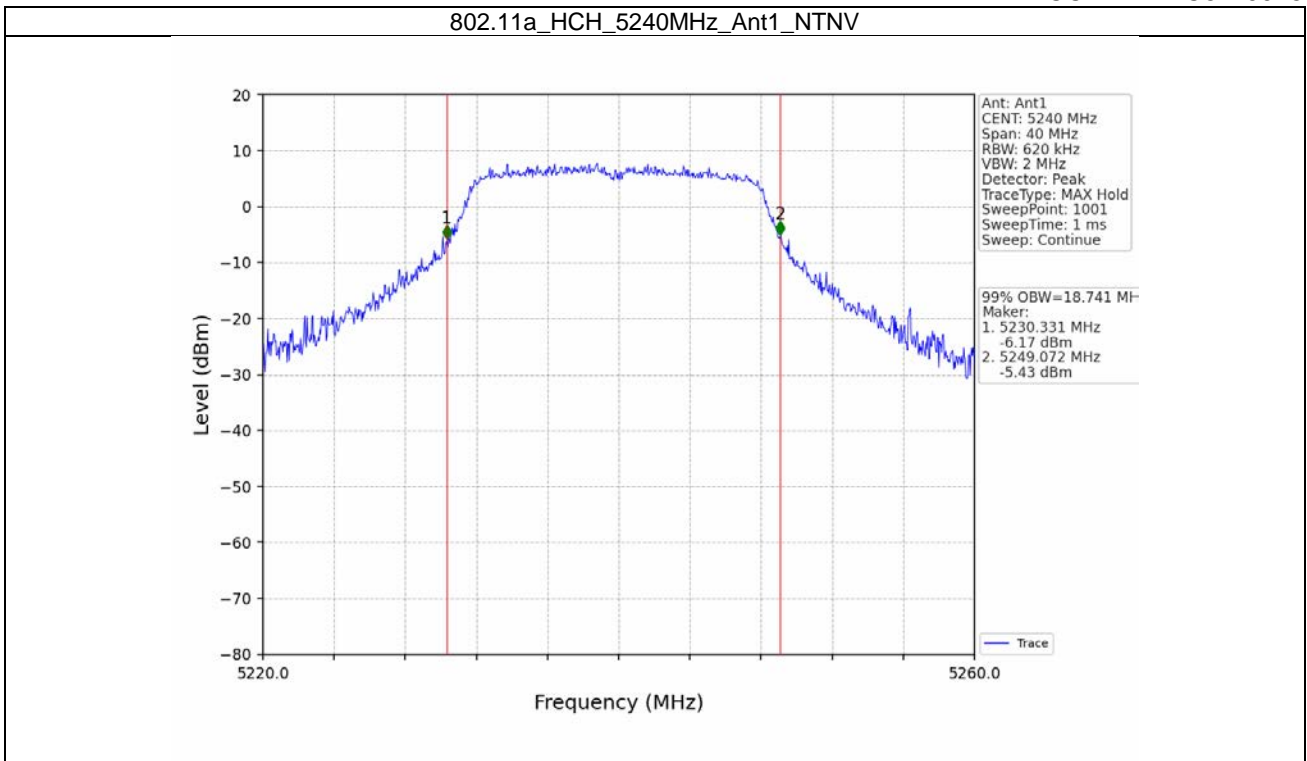
### 2.1 OBW

#### 2.1.1 Test Result

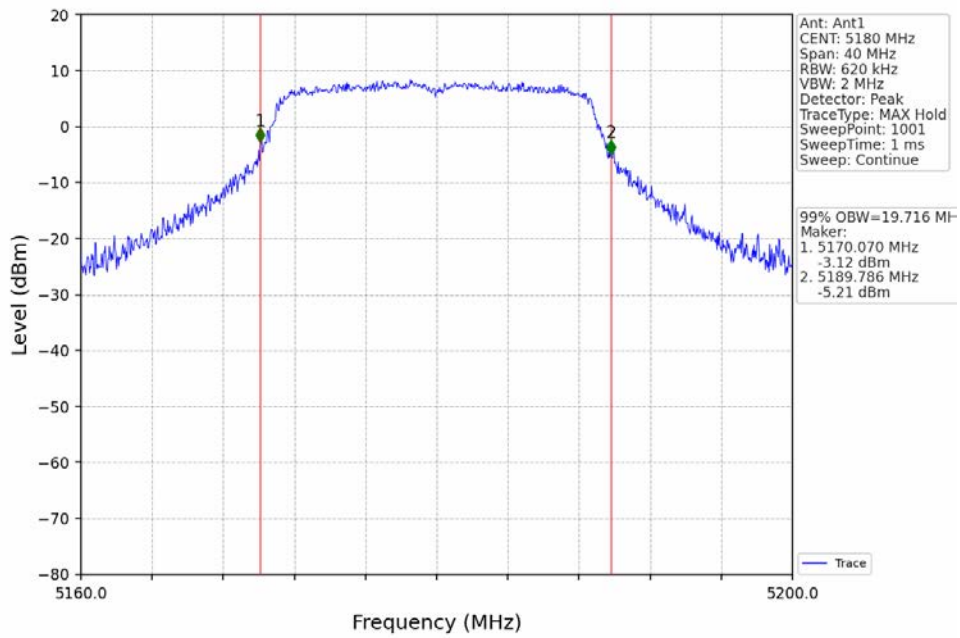
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.973	/	Pass
		5200	1	18.747	/	Pass
		5240	1	18.741	/	Pass
802.11n (HT20)	SISO	5180	1	19.716	/	Pass
		5200	1	19.625	/	Pass
		5240	1	19.692	/	Pass
802.11n (HT40)	SISO	5190	1	37.858	/	Pass
		5230	1	37.782	/	Pass
802.11ac (VHT20)	SISO	5180	1	19.653	/	Pass
		5200	1	19.810	/	Pass
		5240	1	19.794	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.833	/	Pass
		5230	1	37.879	/	Pass

### 2.1.2 Test Graph

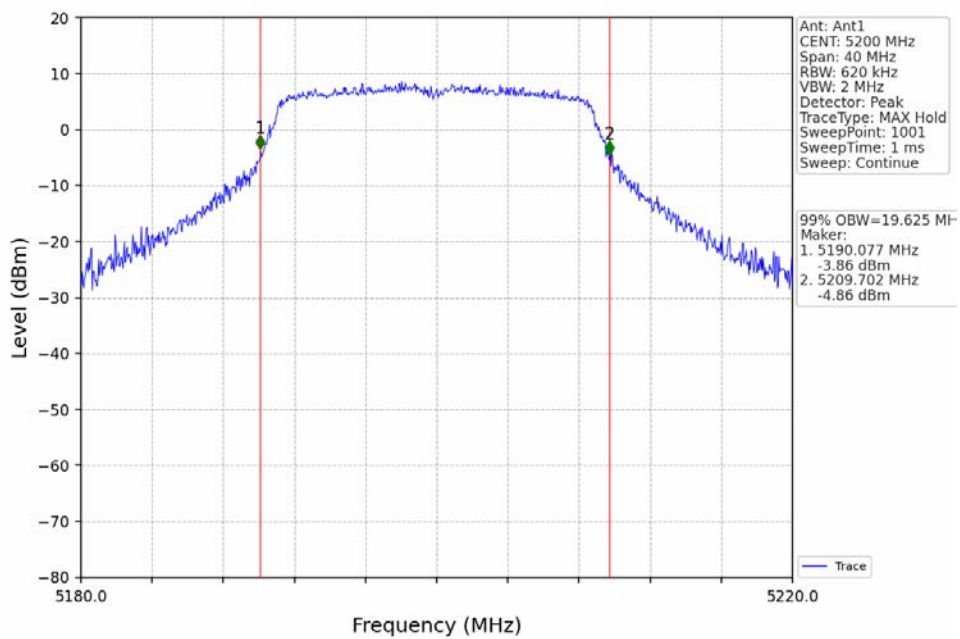




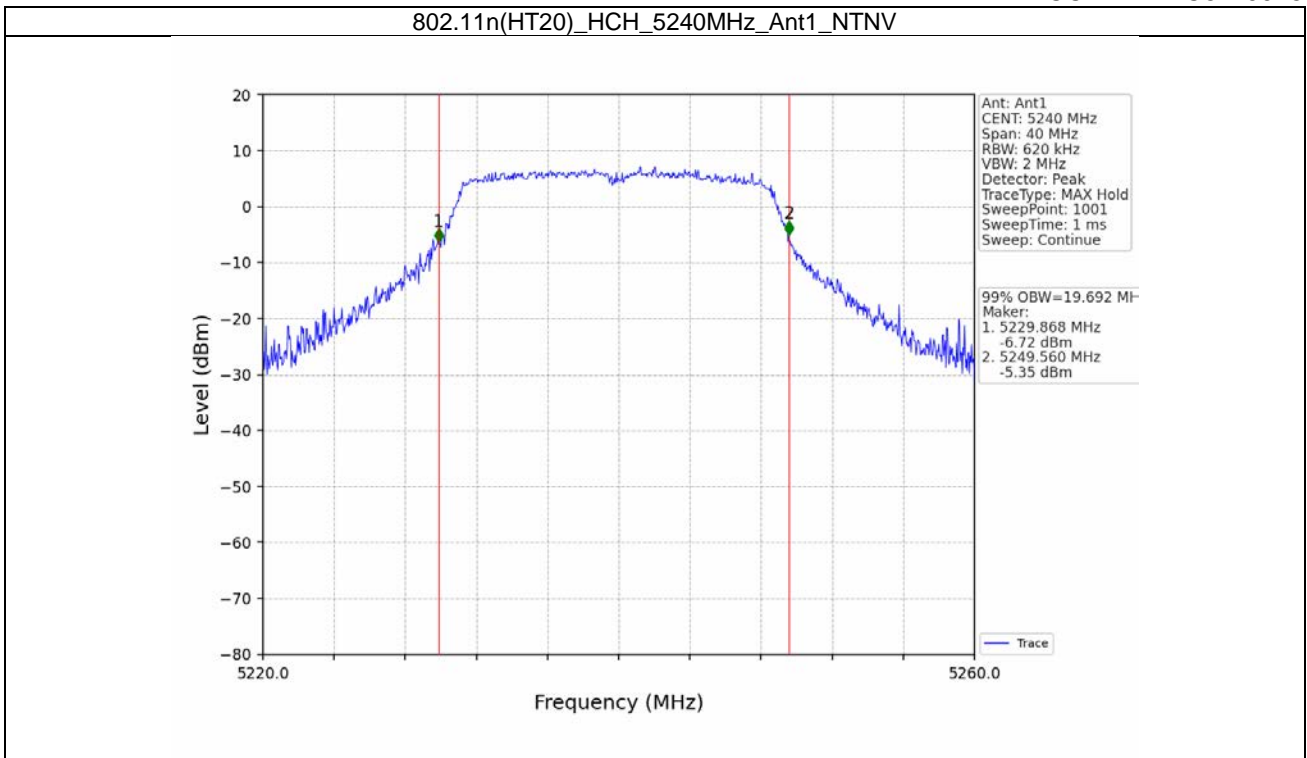
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

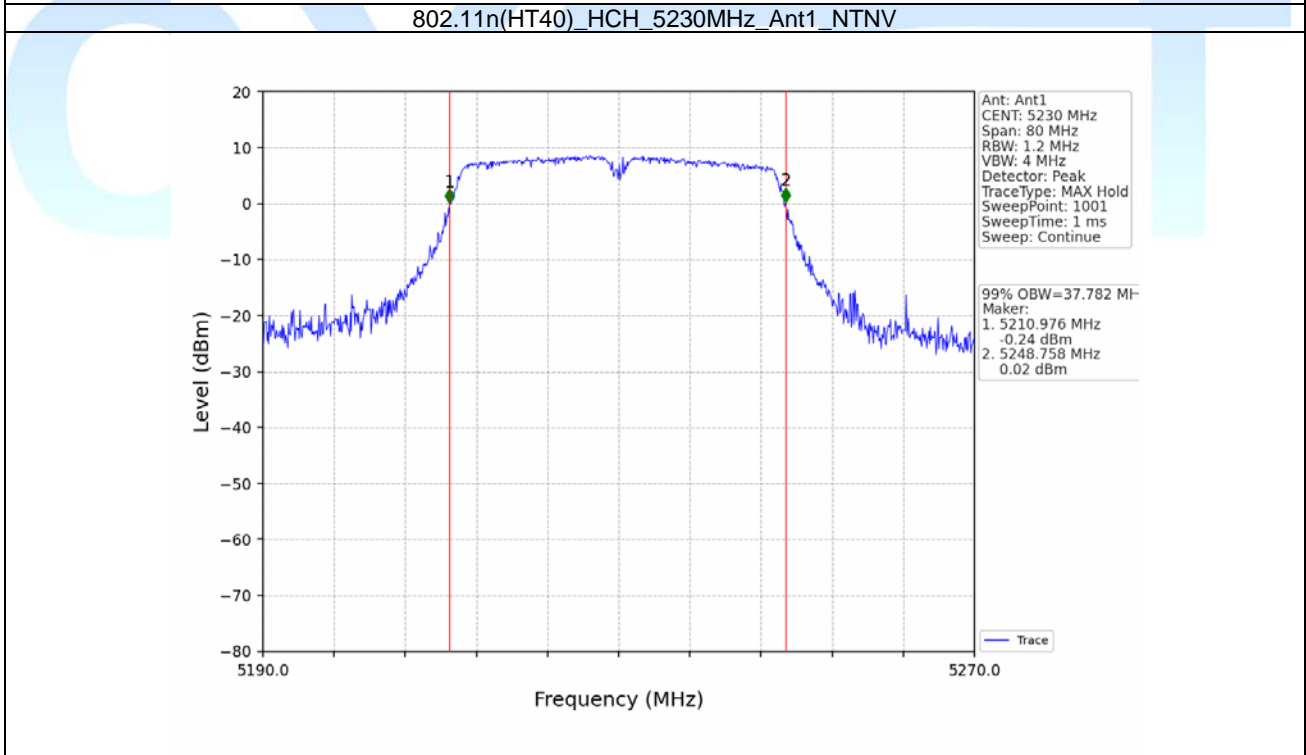
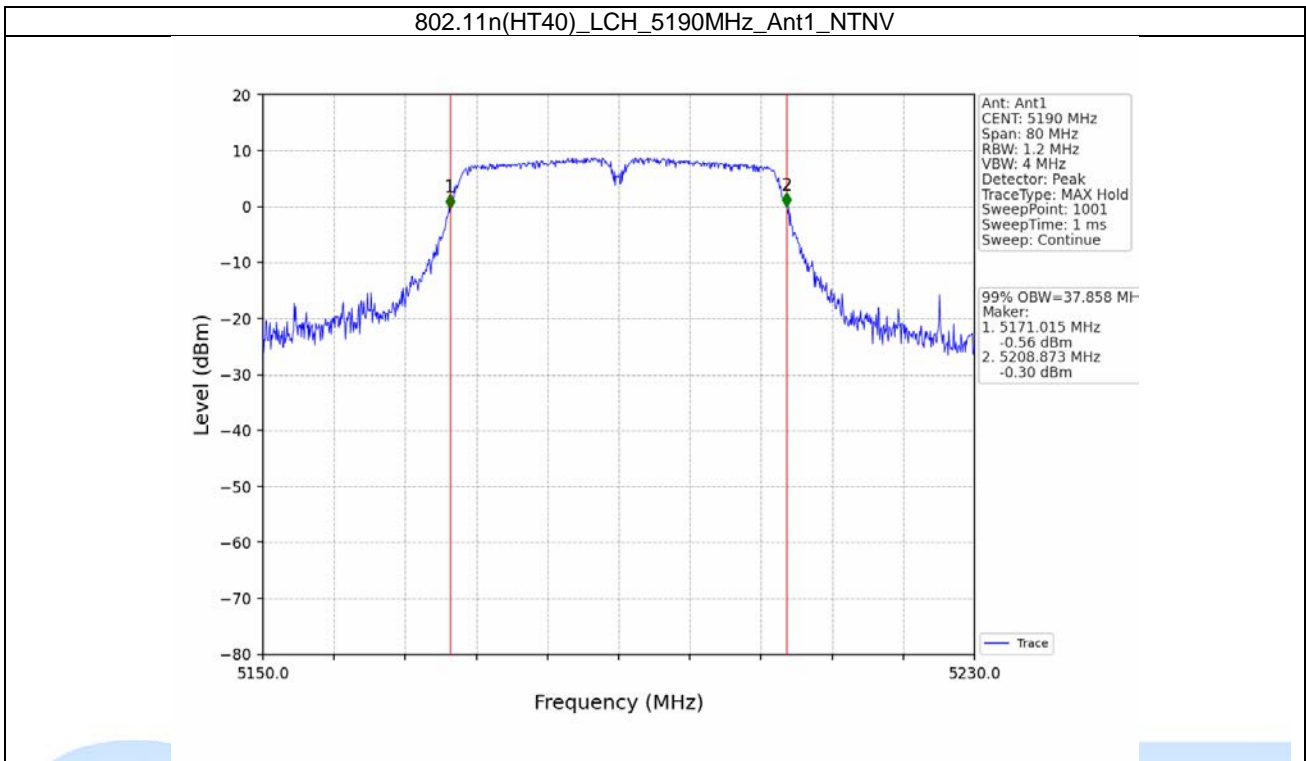


802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

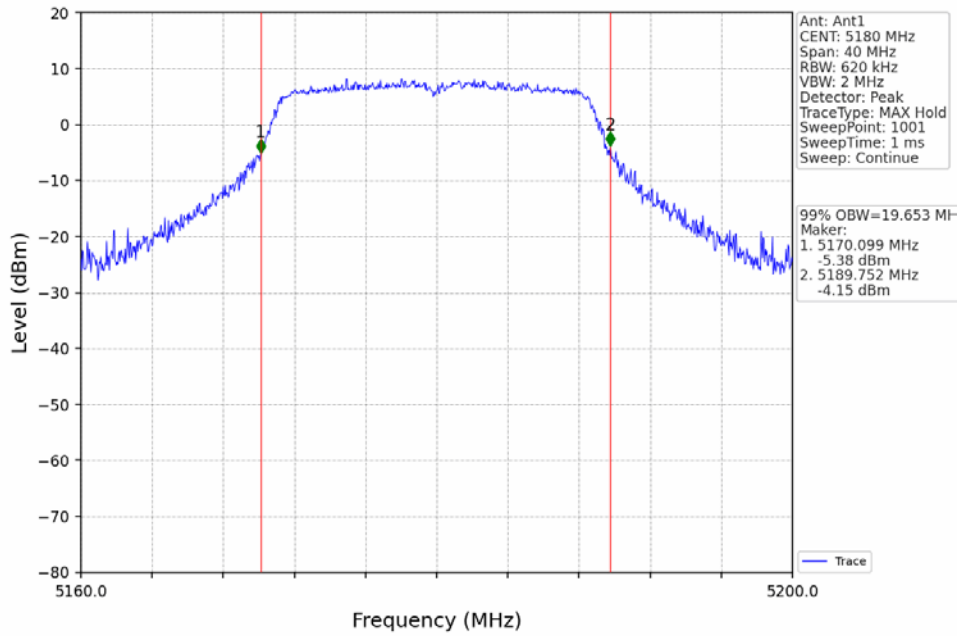


802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

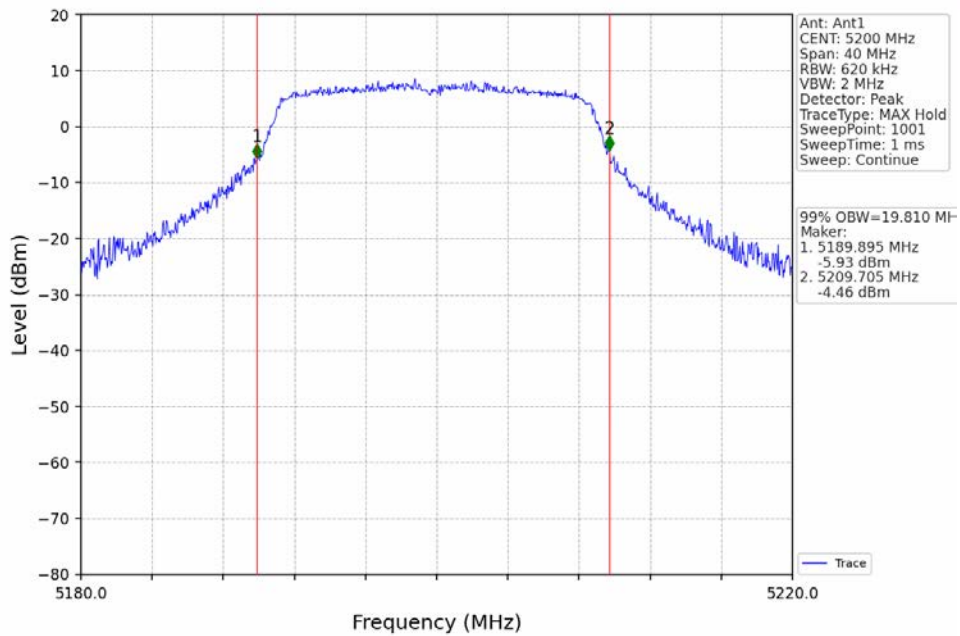




802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV

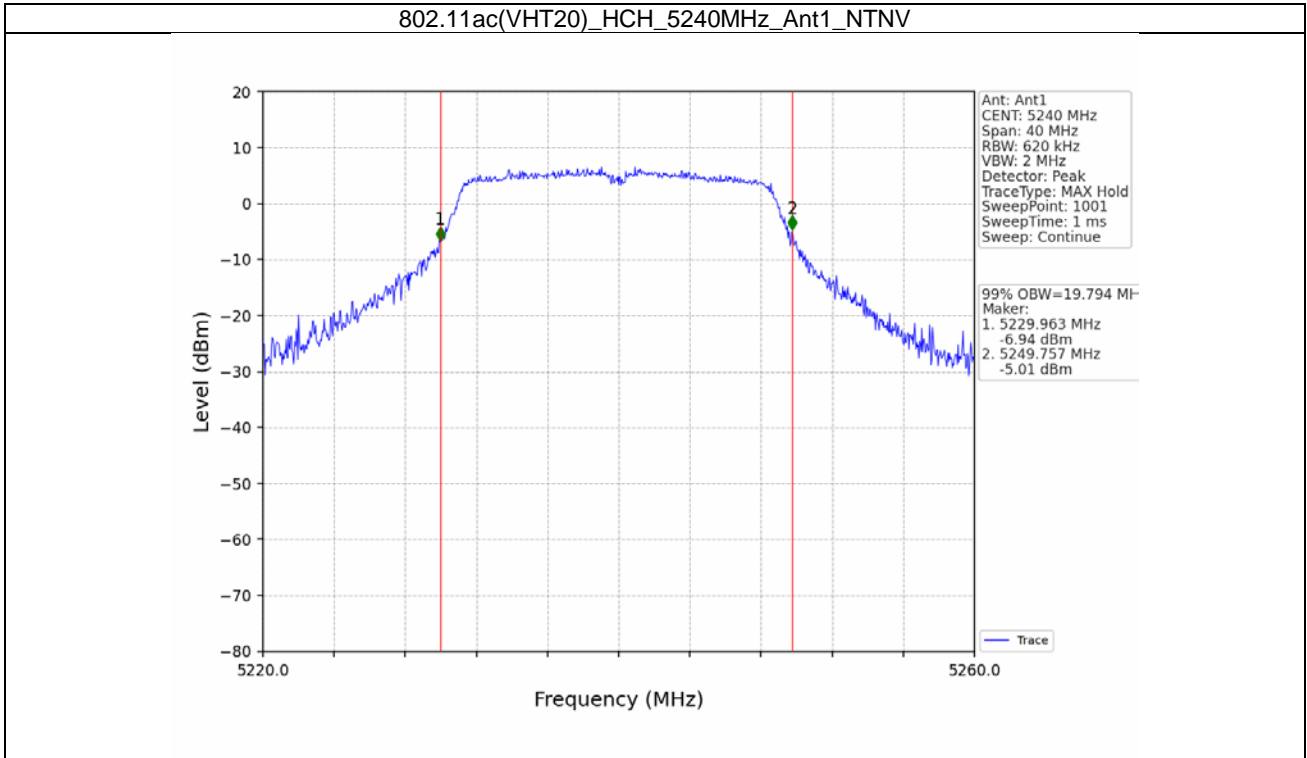


802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

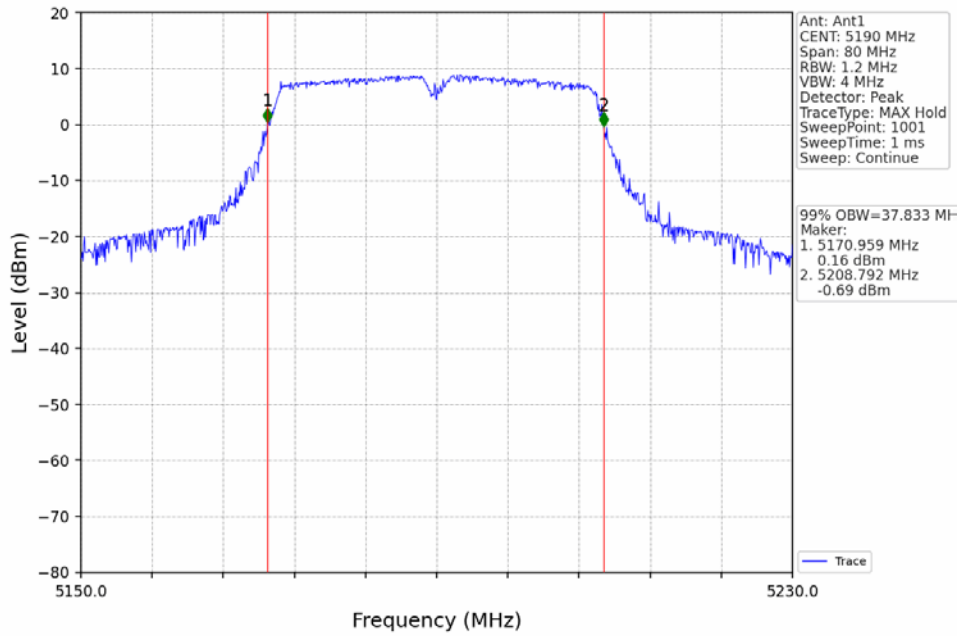




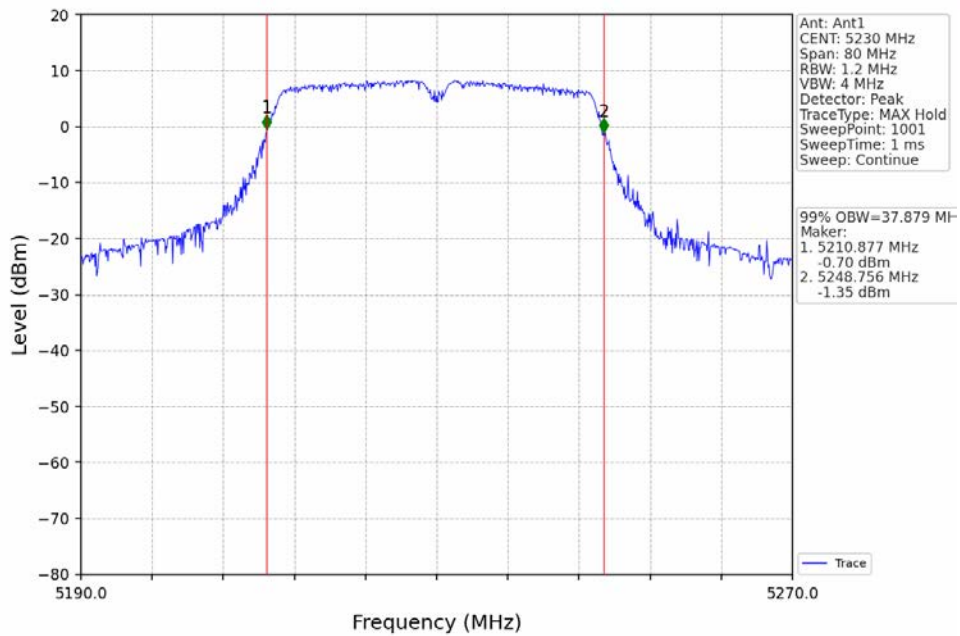
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



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



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

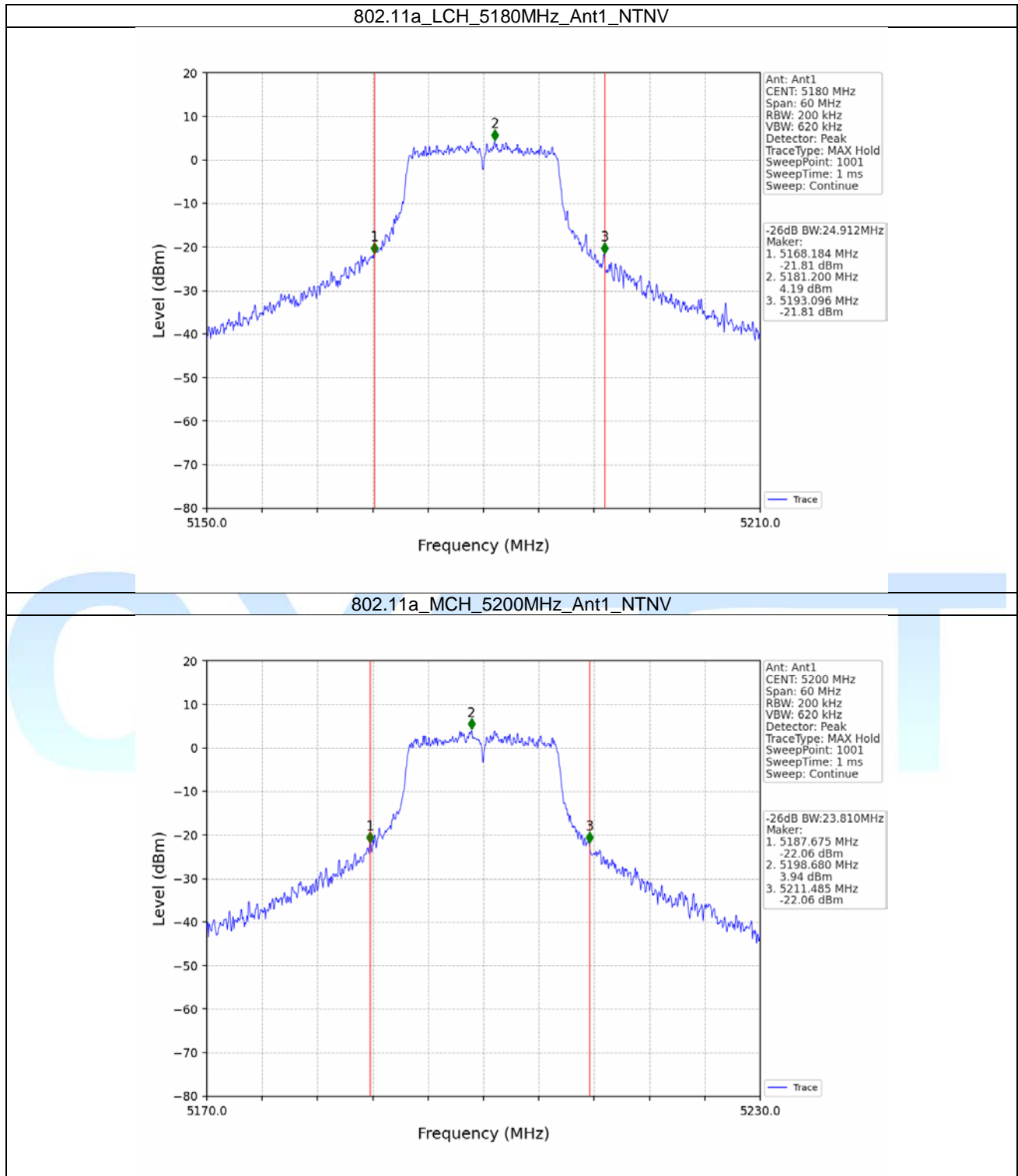


## 2.3 26dB BW

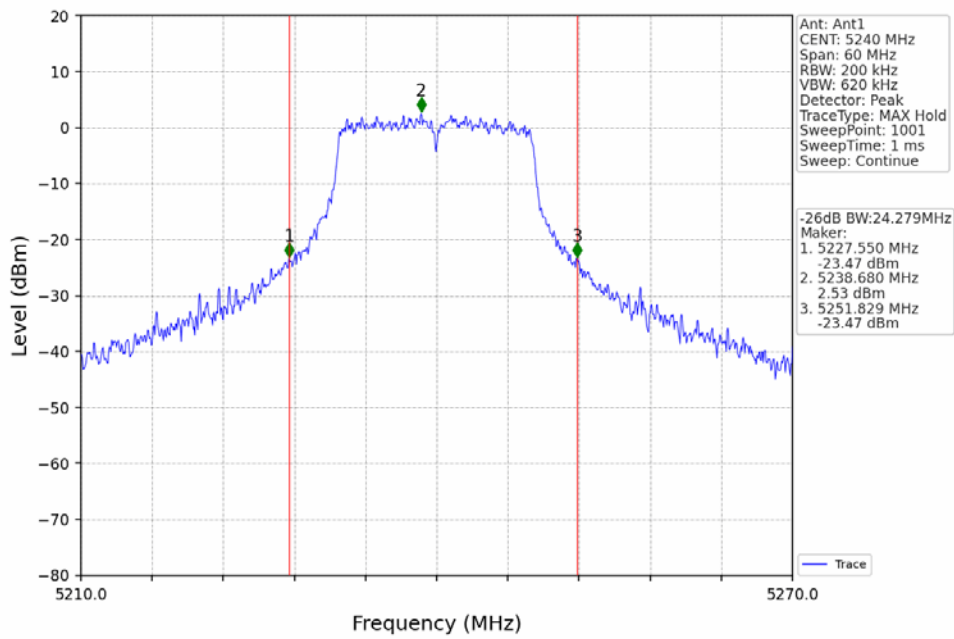
### 2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	24.912	/	Pass
		5200	1	23.810	/	Pass
		5240	1	24.279	/	Pass
802.11n (HT20)	SISO	5180	1	24.604	/	Pass
		5200	1	24.278	/	Pass
		5240	1	25.500	/	Pass
802.11n (HT40)	SISO	5190	1	45.684	/	Pass
		5230	1	46.519	/	Pass
802.11ac (VHT20)	SISO	5180	1	25.096	/	Pass
		5200	1	24.292	/	Pass
		5240	1	24.244	/	Pass
802.11ac (VHT40)	SISO	5190	1	45.760	/	Pass
		5230	1	46.243	/	Pass

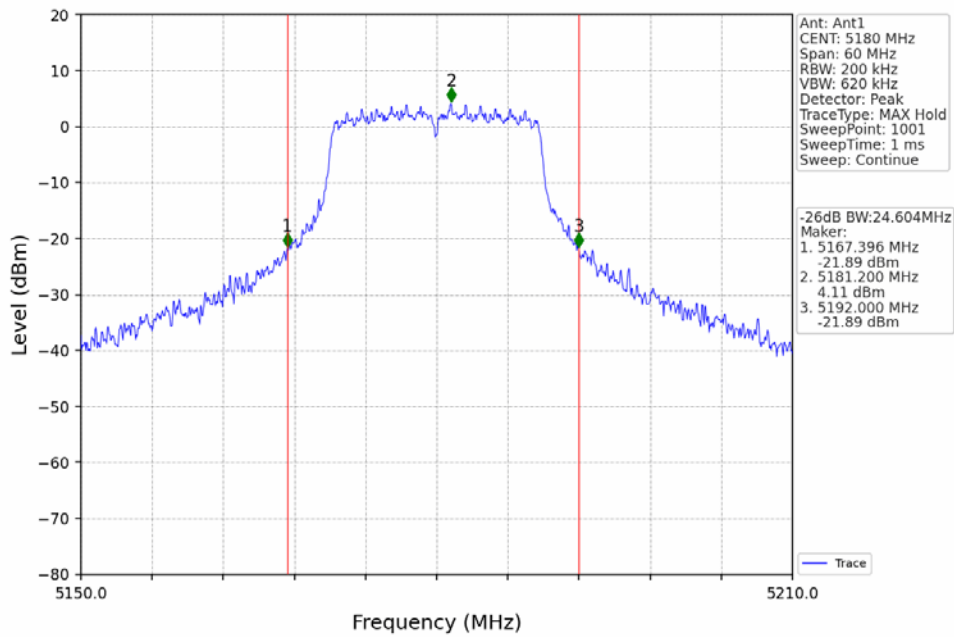
### 2.3.2 Test Graph



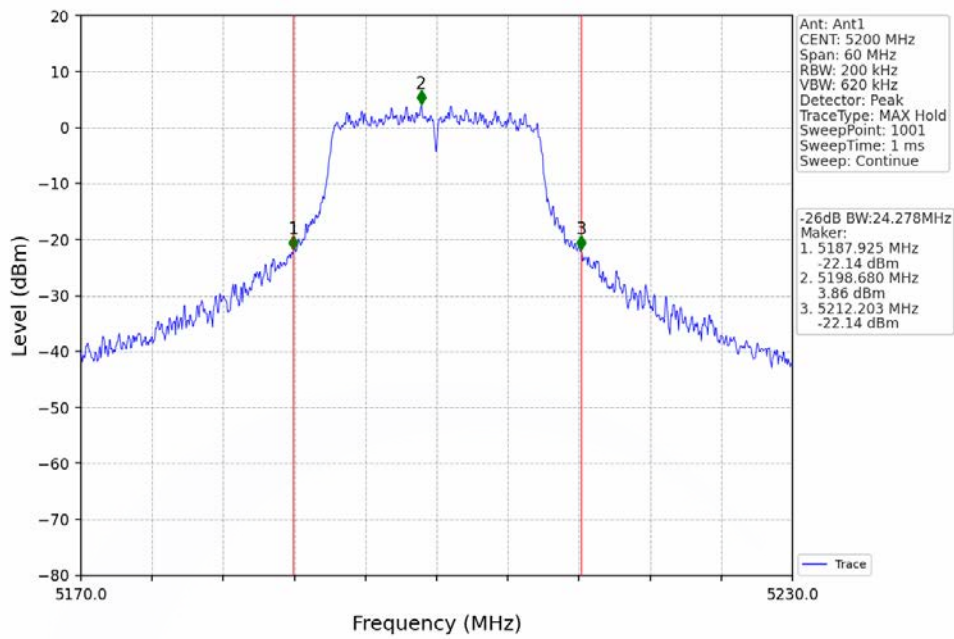
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



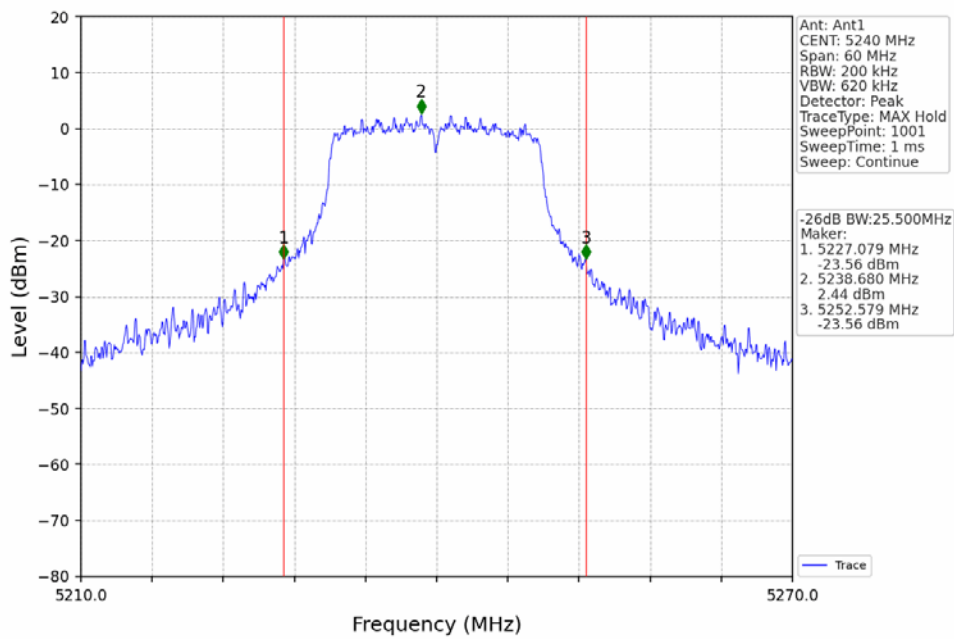
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



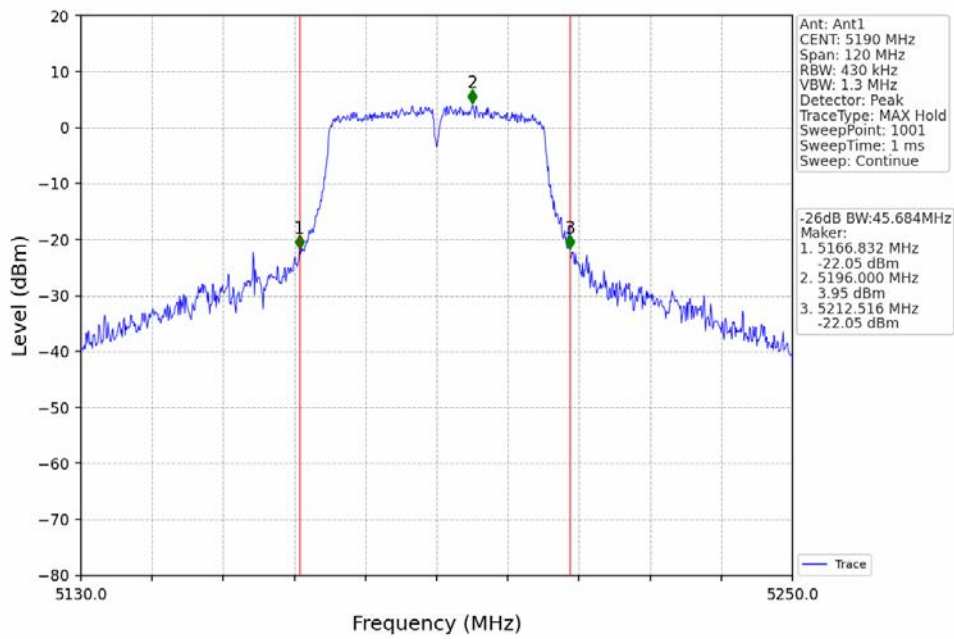
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



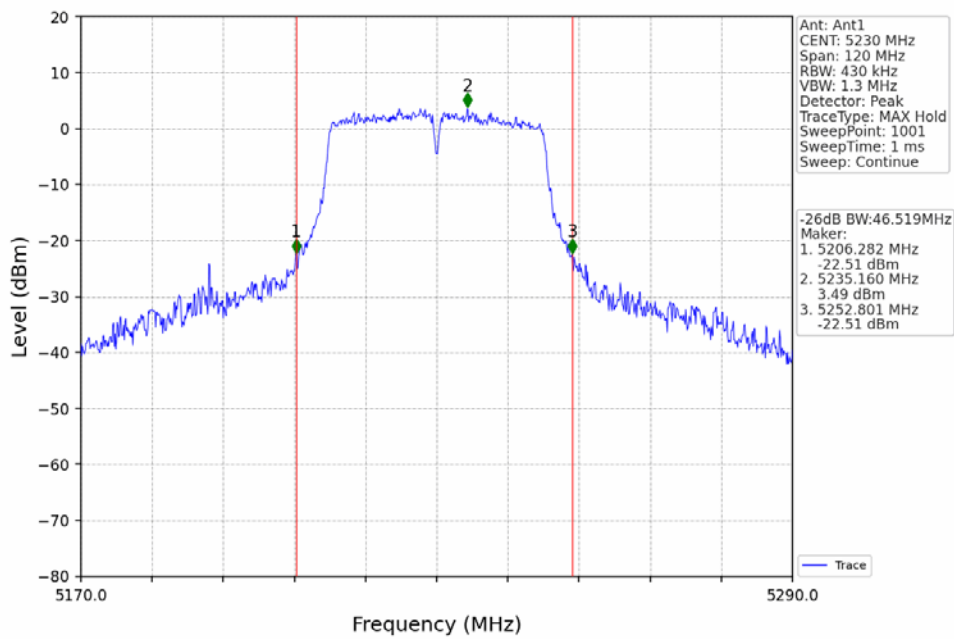
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



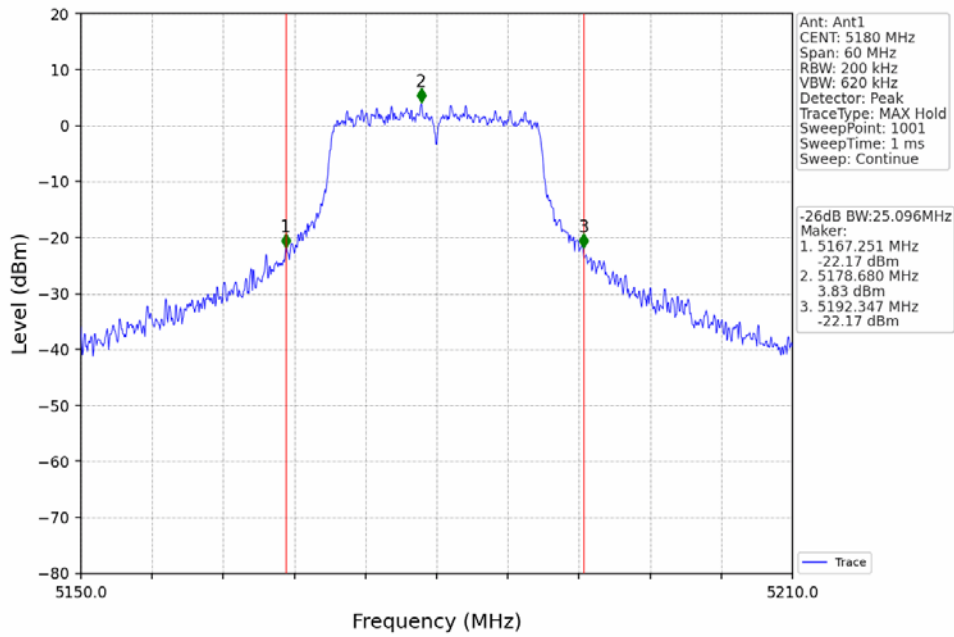
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



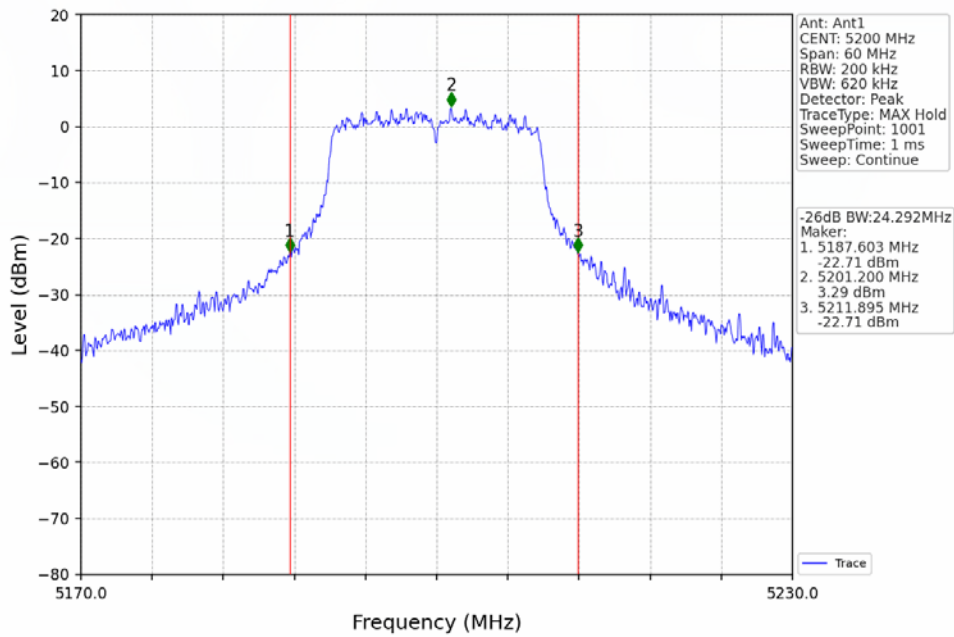
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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

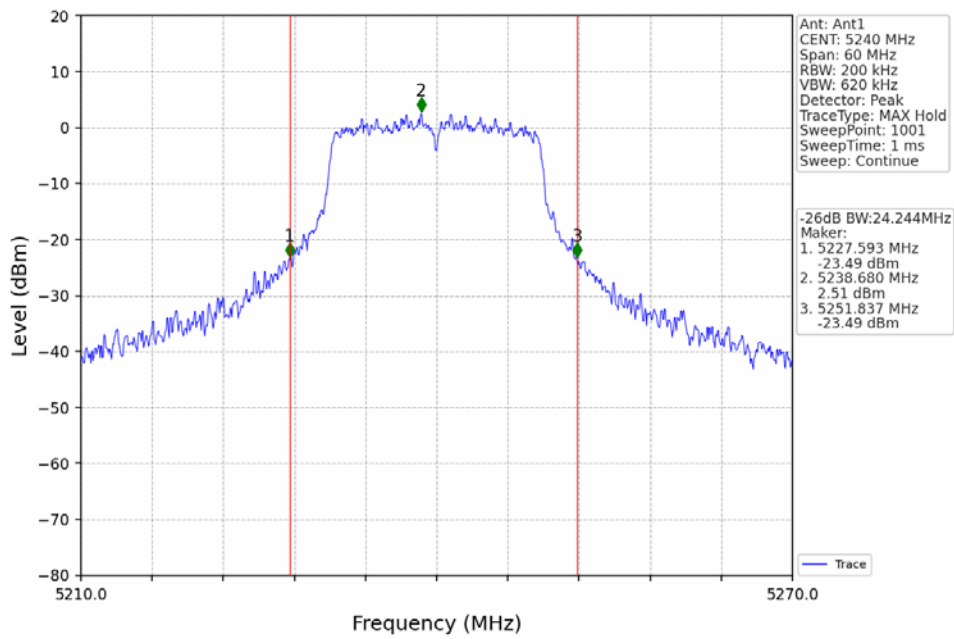


802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

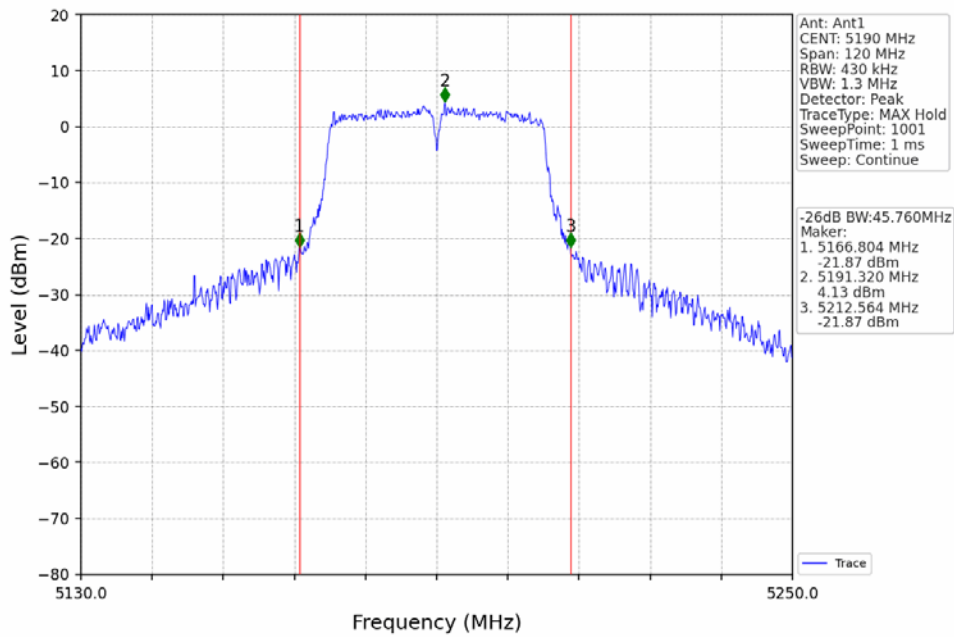




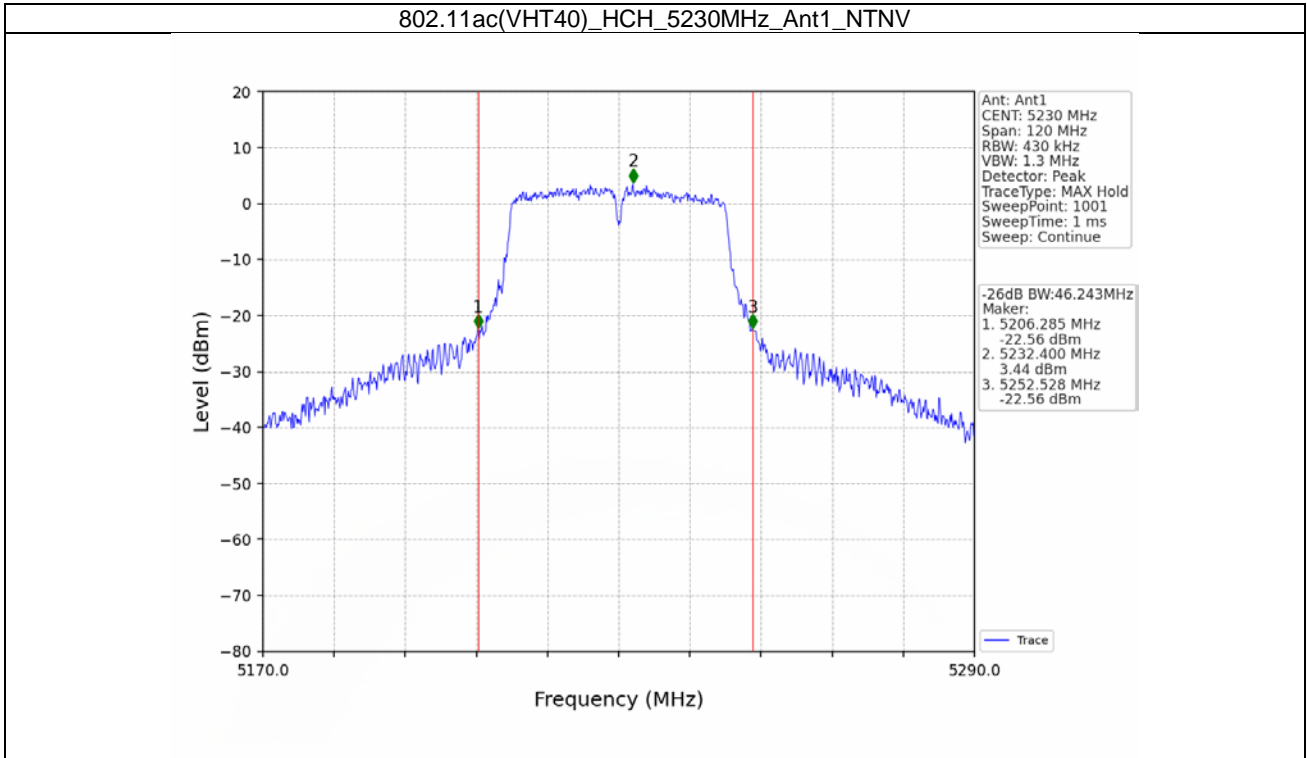
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



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



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



### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	14.58	<=23.98	Pass
		5200	13.46	<=23.98	Pass
		5240	12.61	<=23.98	Pass
802.11n (HT20)	SISO	5180	14.26	<=23.98	Pass
		5200	13.83	<=23.98	Pass
		5240	12.86	<=23.98	Pass
802.11n (HT40)	SISO	5190	13.49	<=23.98	Pass
		5230	13.18	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	13.94	<=23.98	Pass
		5200	13.58	<=23.98	Pass
		5240	12.21	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	13.30	<=23.98	Pass
		5230	13.06	<=23.98	Pass

Note1: Antenna Gain: Ant1: 1.68dBi;

### 4. Maximum Power Spectral Density

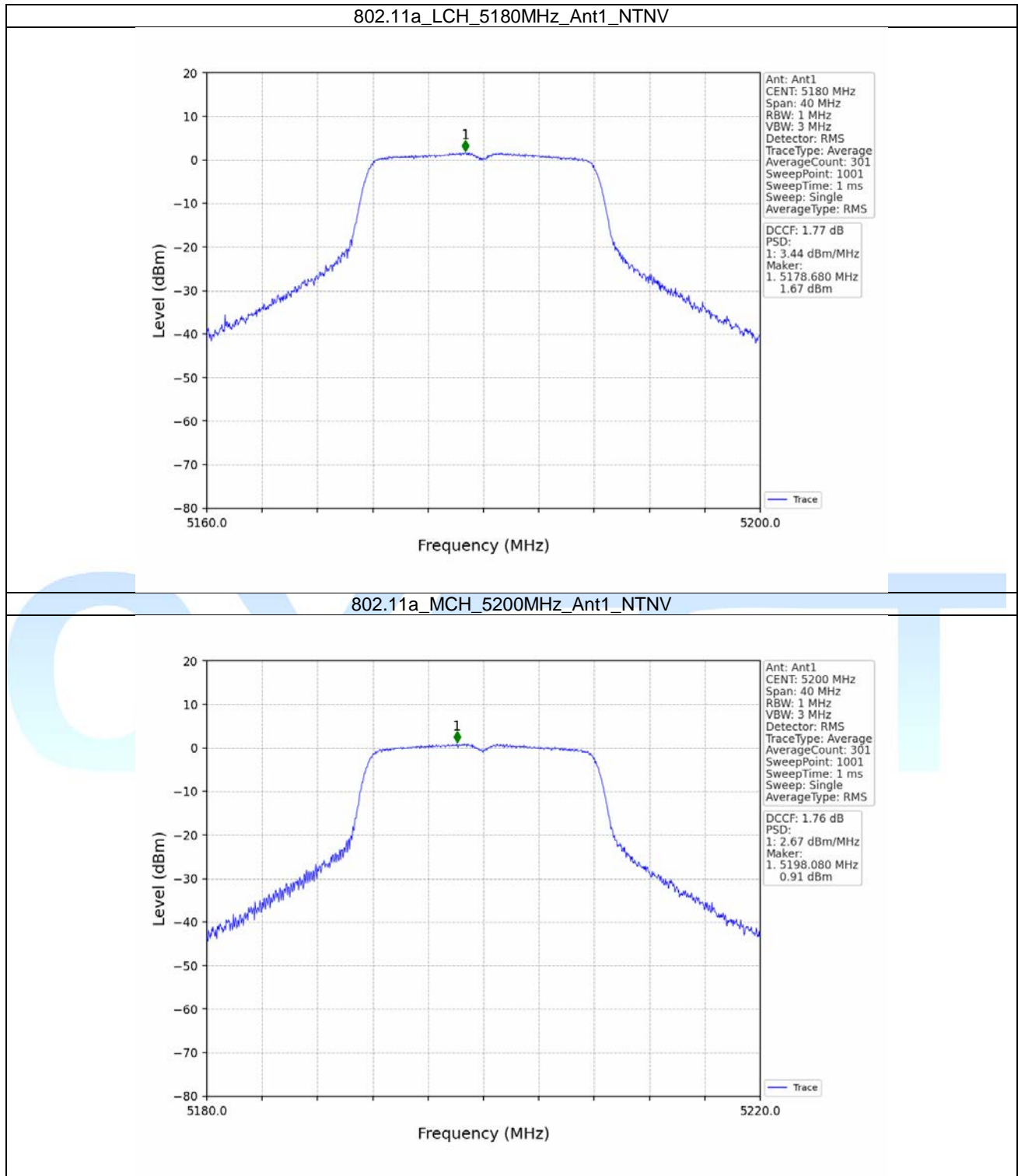
#### 4.1 PSD

##### 4.1.1 Test Result

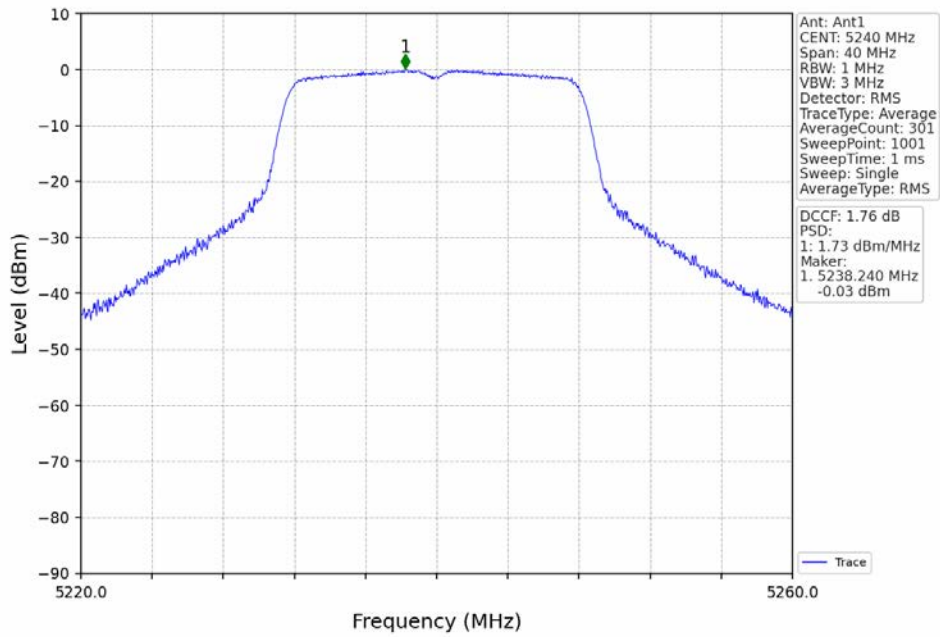
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	3.44	<=11	Pass
		5200	2.67	<=11	Pass
		5240	1.73	<=11	Pass
802.11n (HT20)	SISO	5180	2.83	<=11	Pass
		5200	2.80	<=11	Pass
		5240	1.68	<=11	Pass
802.11n (HT40)	SISO	5190	-0.64	<=11	Pass
		5230	-1.03	<=11	Pass
802.11ac (VHT20)	SISO	5180	2.58	<=11	Pass
		5200	2.60	<=11	Pass
		5240	1.16	<=11	Pass
802.11ac (VHT40)	SISO	5190	-0.60	<=11	Pass
		5230	-1.01	<=11	Pass

Note1: Antenna Gain: Ant1: 1.68dBi;

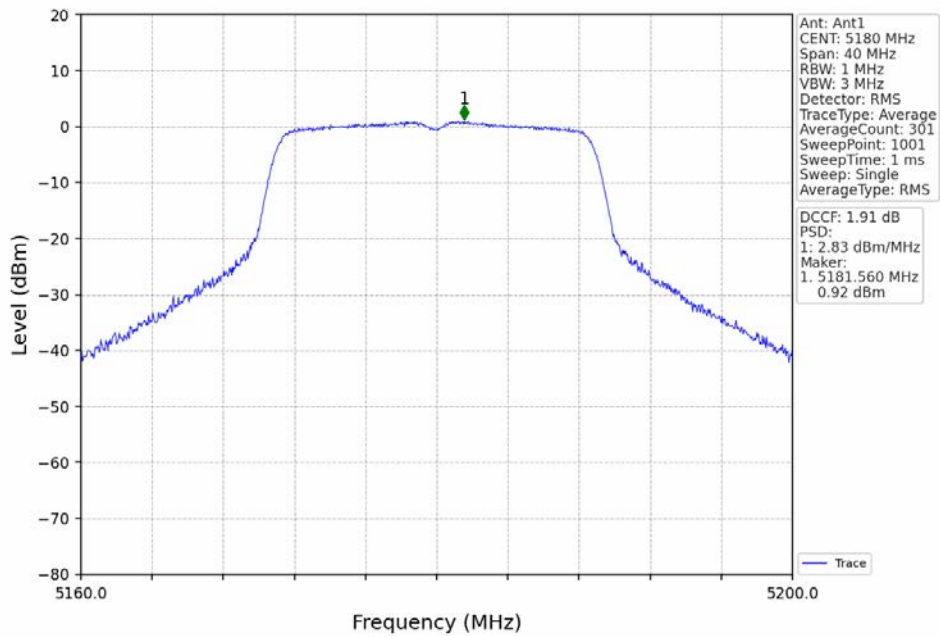
### 4.1.2 Test Graph



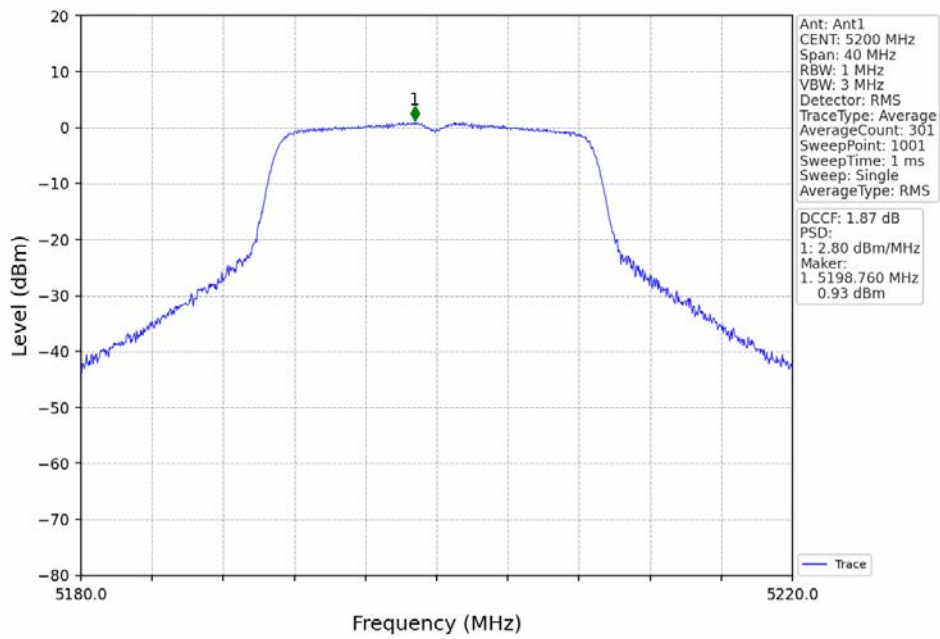
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



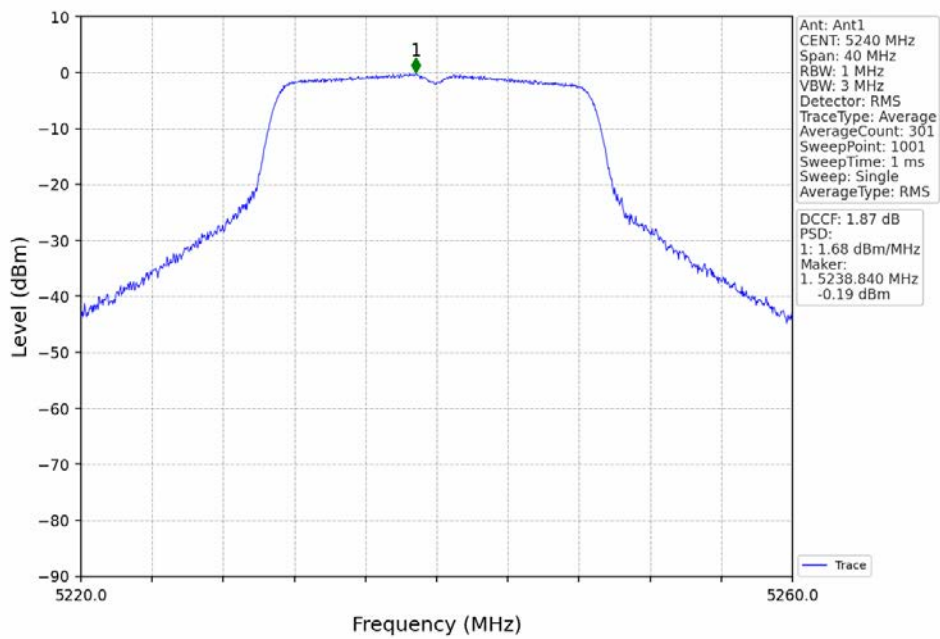
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



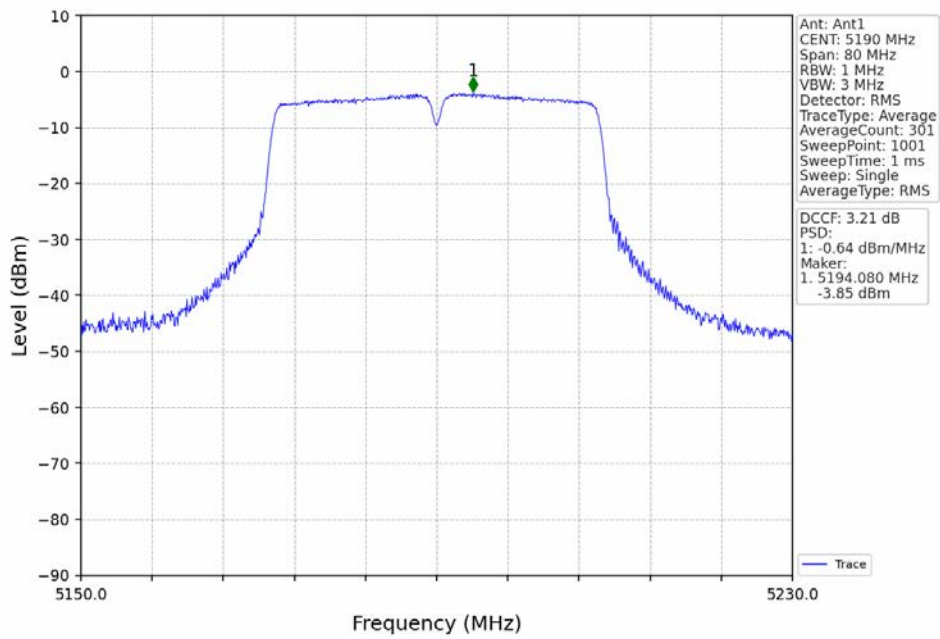
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



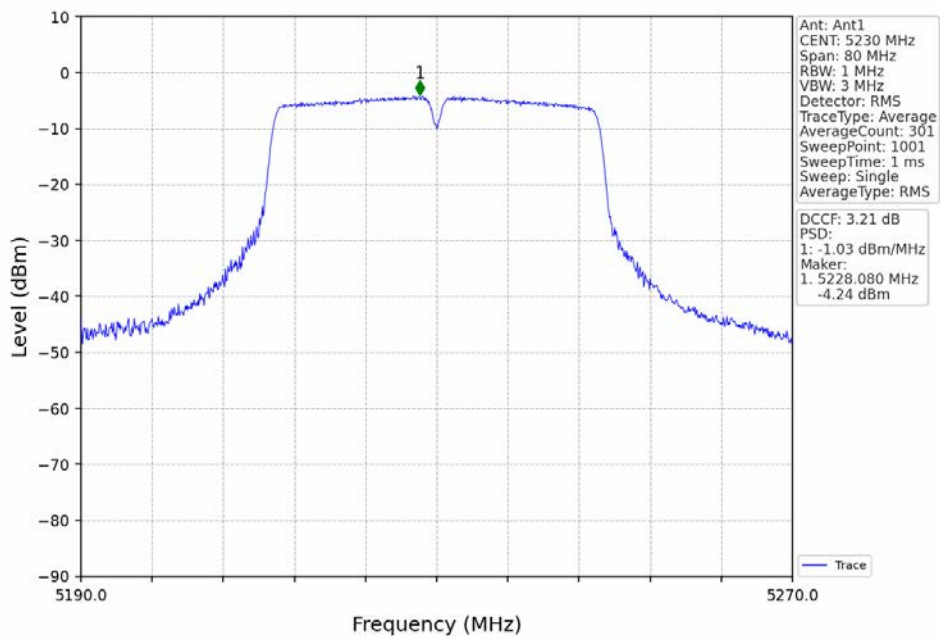
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



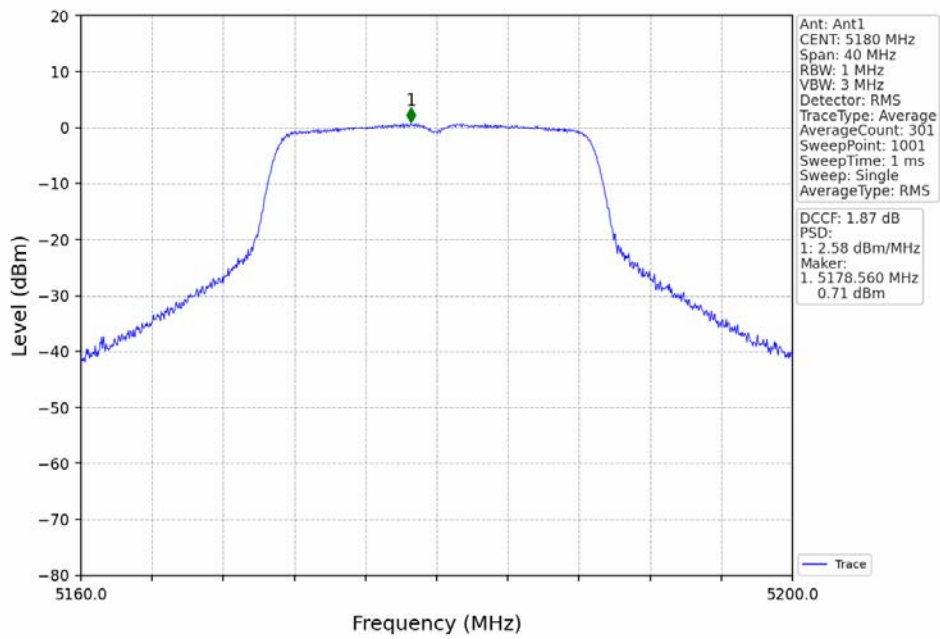
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



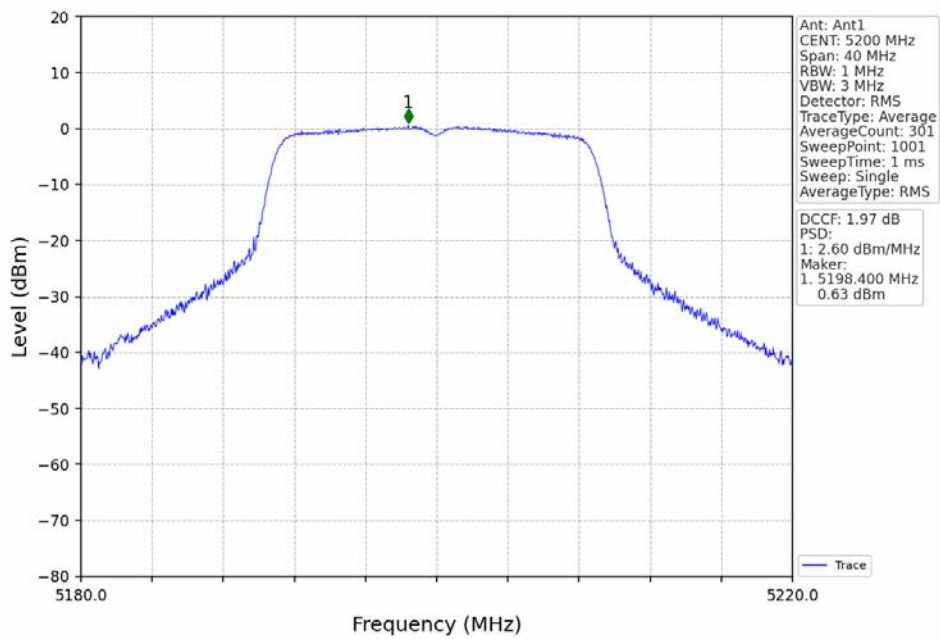
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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

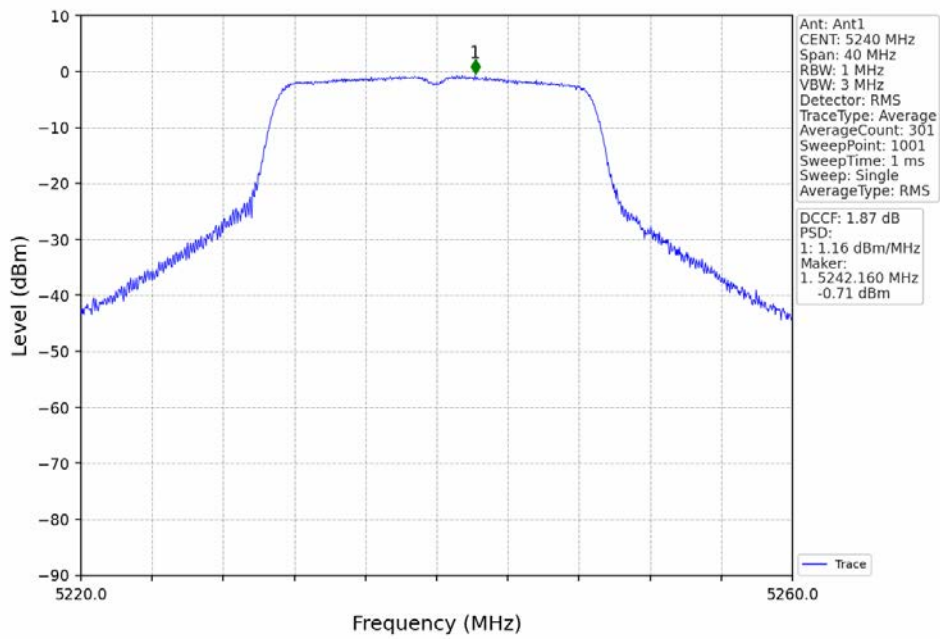


802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

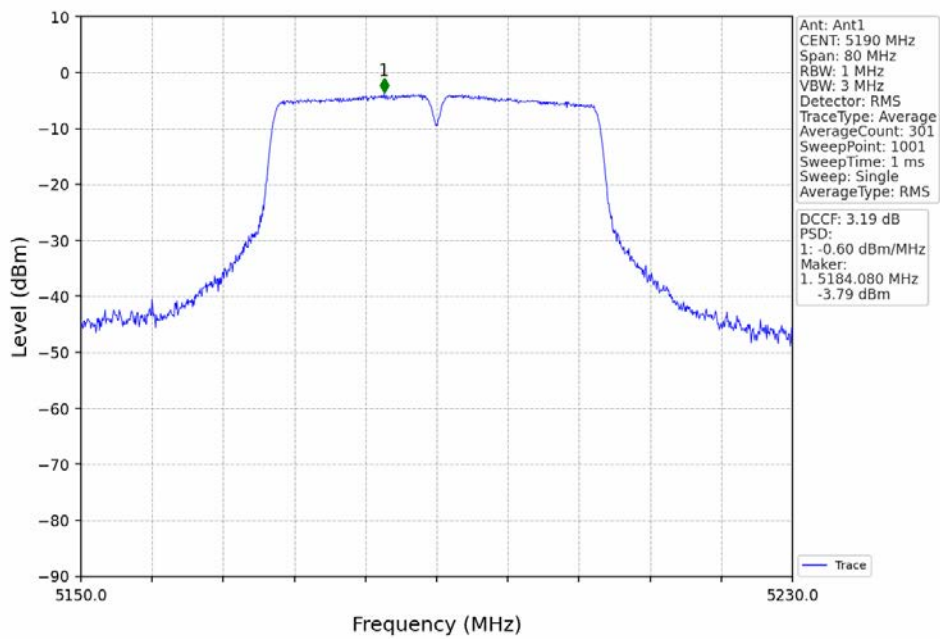




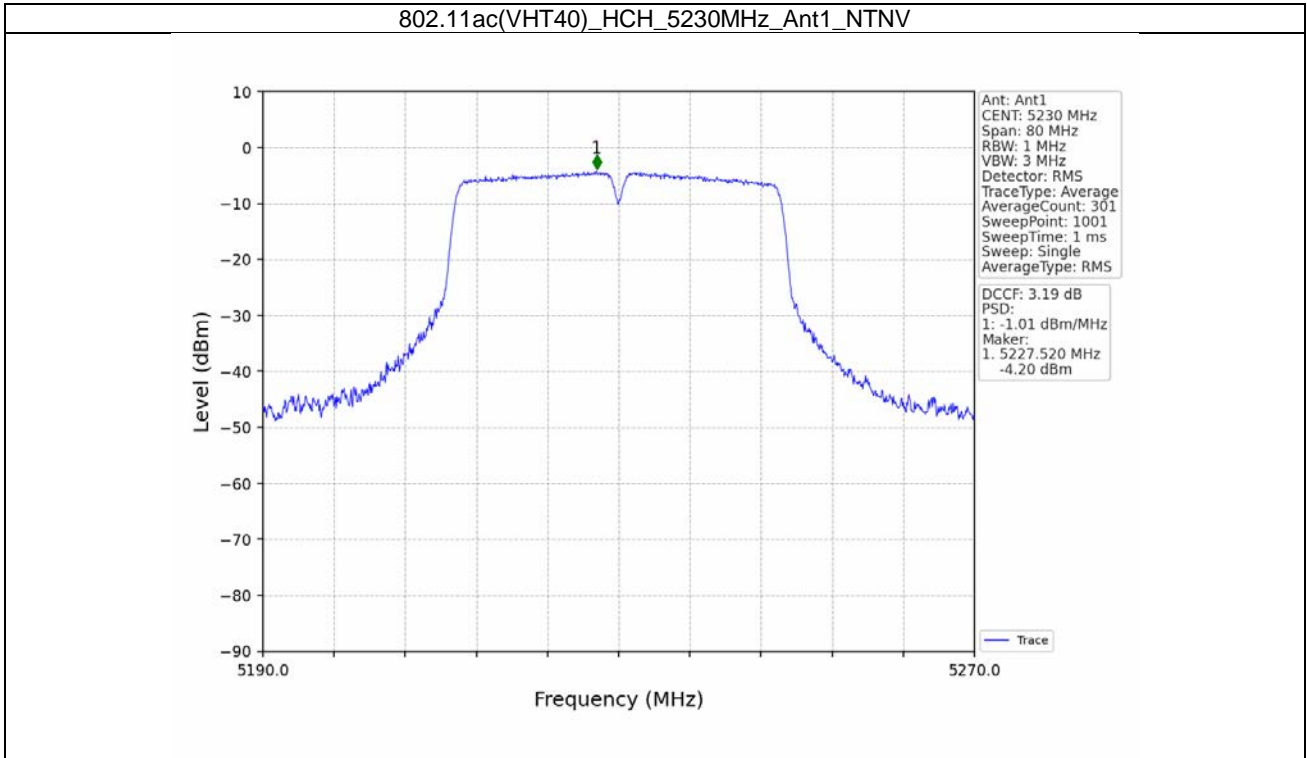
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



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



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



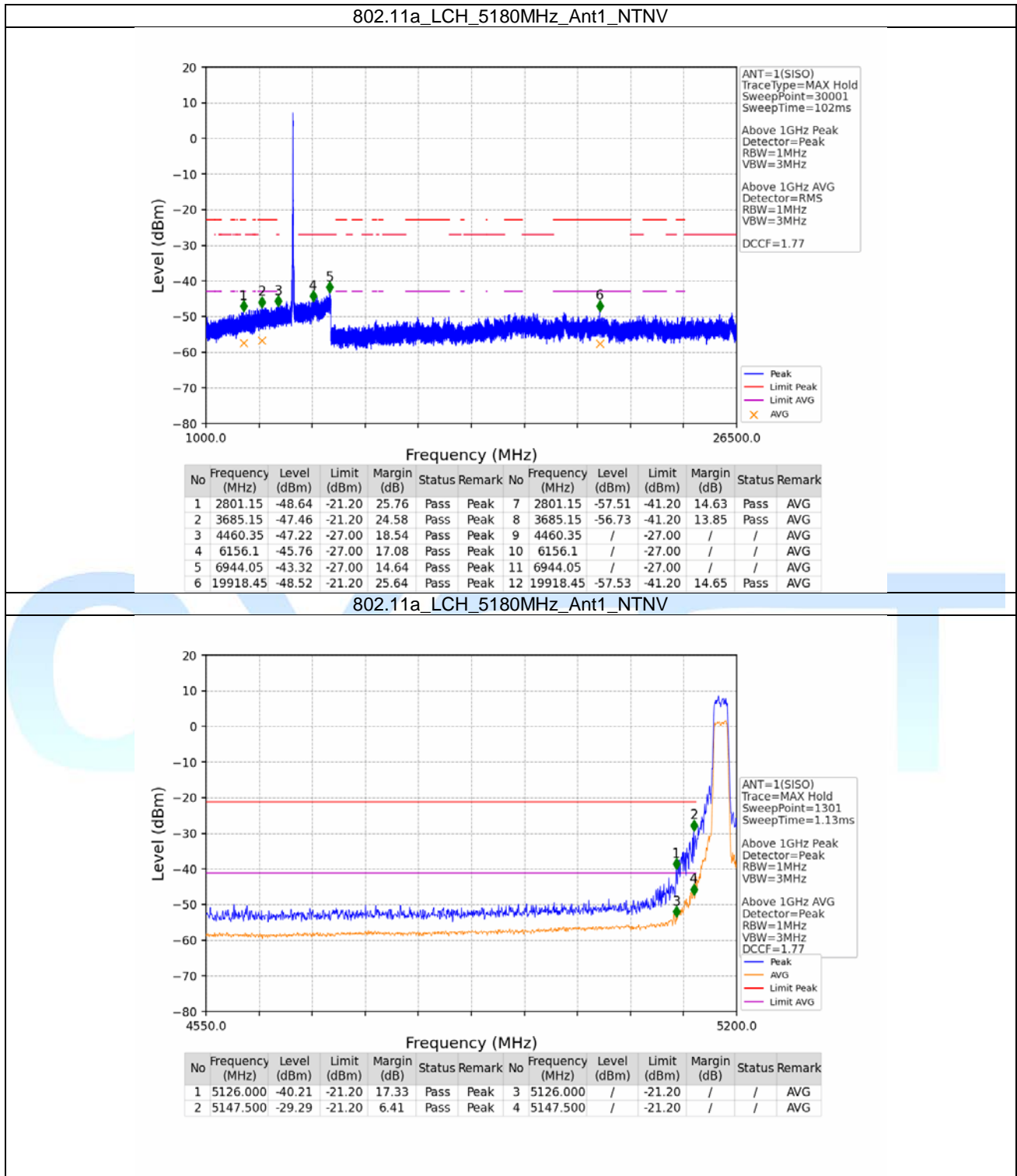
## 5. Unwanted Emissions In Restricted Frequency Bands

### 5.1 RSE

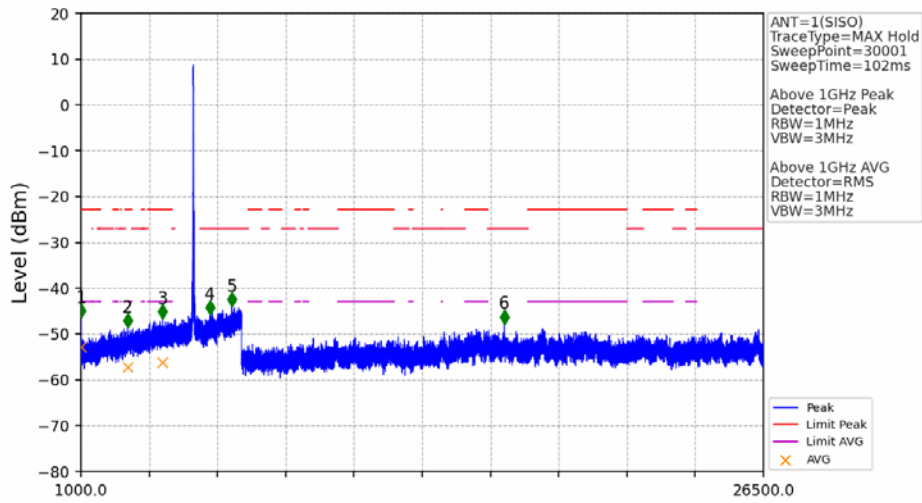
#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass

### 5.1.2 Test Graph

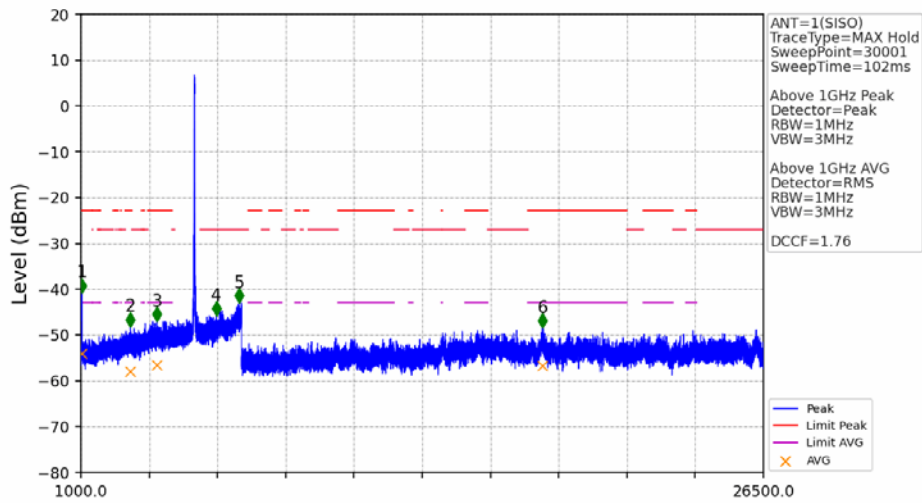


802.11a\_MCH\_5200MHz\_Ant1\_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	1000	-46.54	-21.20	23.66	Pass	Peak	7	1000	-52.91	-41.20	10.03	Pass	AVG
2	2736.55	-48.68	-21.20	25.80	Pass	Peak	8	2736.55	-57.32	-41.20	14.44	Pass	AVG
3	4056.6	-46.67	-21.20	23.79	Pass	Peak	9	4056.6	-56.25	-41.20	13.37	Pass	AVG
4	5822.9	-45.74	-27.00	17.06	Pass	Peak	10	5822.9	/	-27.00	/	/	AVG
5	6632.1	-44.06	-27.00	15.38	Pass	Peak	11	6632.1	/	-27.00	/	/	AVG
6	16814.25	-47.82	-27.00	19.14	Pass	Peak	12	16814.25	/	-27.00	/	/	AVG

802.11a\_HCH\_5240MHz\_Ant1\_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	1029.75	-40.76	-21.20	17.88	Pass	Peak	7	1029.75	-54.02	-41.20	11.14	Pass	AVG
2	2847.9	-48.17	-21.20	25.29	Pass	Peak	8	2847.9	-57.98	-41.20	15.10	Pass	AVG
3	3840.7	-47.00	-21.20	24.12	Pass	Peak	9	3840.7	-56.48	-41.20	13.60	Pass	AVG
4	6058.35	-45.81	-27.00	17.13	Pass	Peak	10	6058.35	/	-27.00	/	/	AVG
5	6899.85	-42.96	-27.00	14.28	Pass	Peak	11	6899.85	/	-27.00	/	/	AVG
6	18242.25	-48.47	-21.20	25.59	Pass	Peak	12	18242.25	-56.77	-41.20	13.89	Pass	AVG