

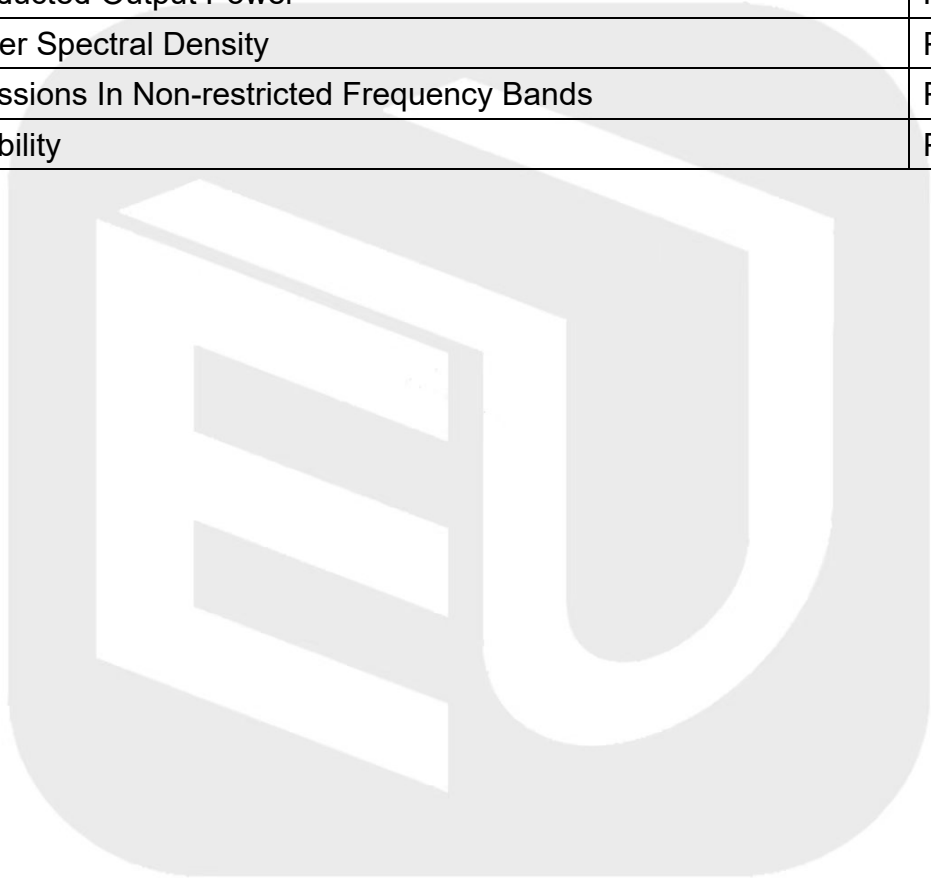
# ANNEX F TEST DATA

## For

Project No.:	8233EU011401W
Client:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Product Description:	Tablet PC
Model No.:	EM101T
FCC ID:	2ABC5-E0080
Technology:	WiFi 5G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-09-24

## Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Stability	Pass



## 1. Duty Cycle

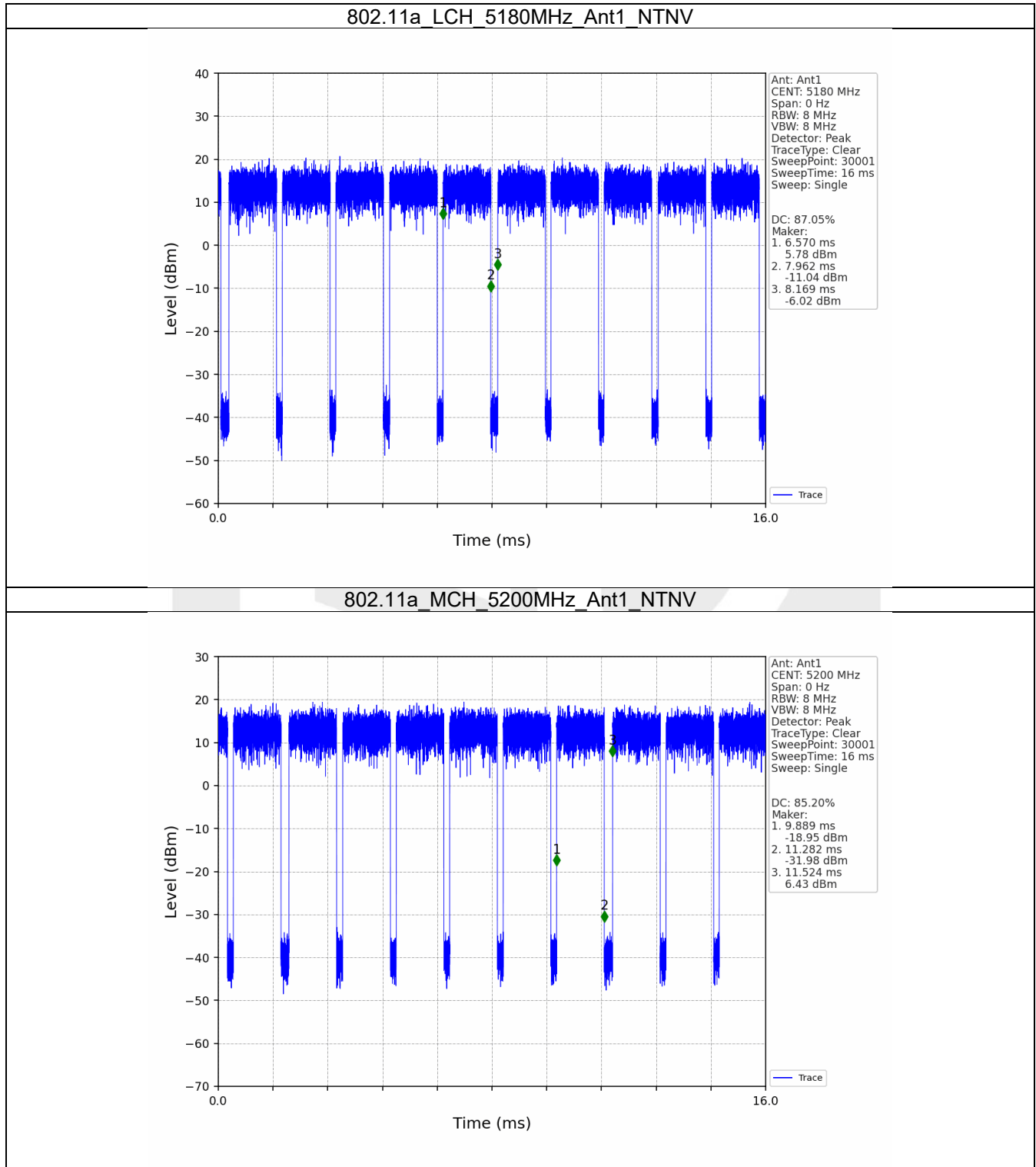
### 1.1 Test Result

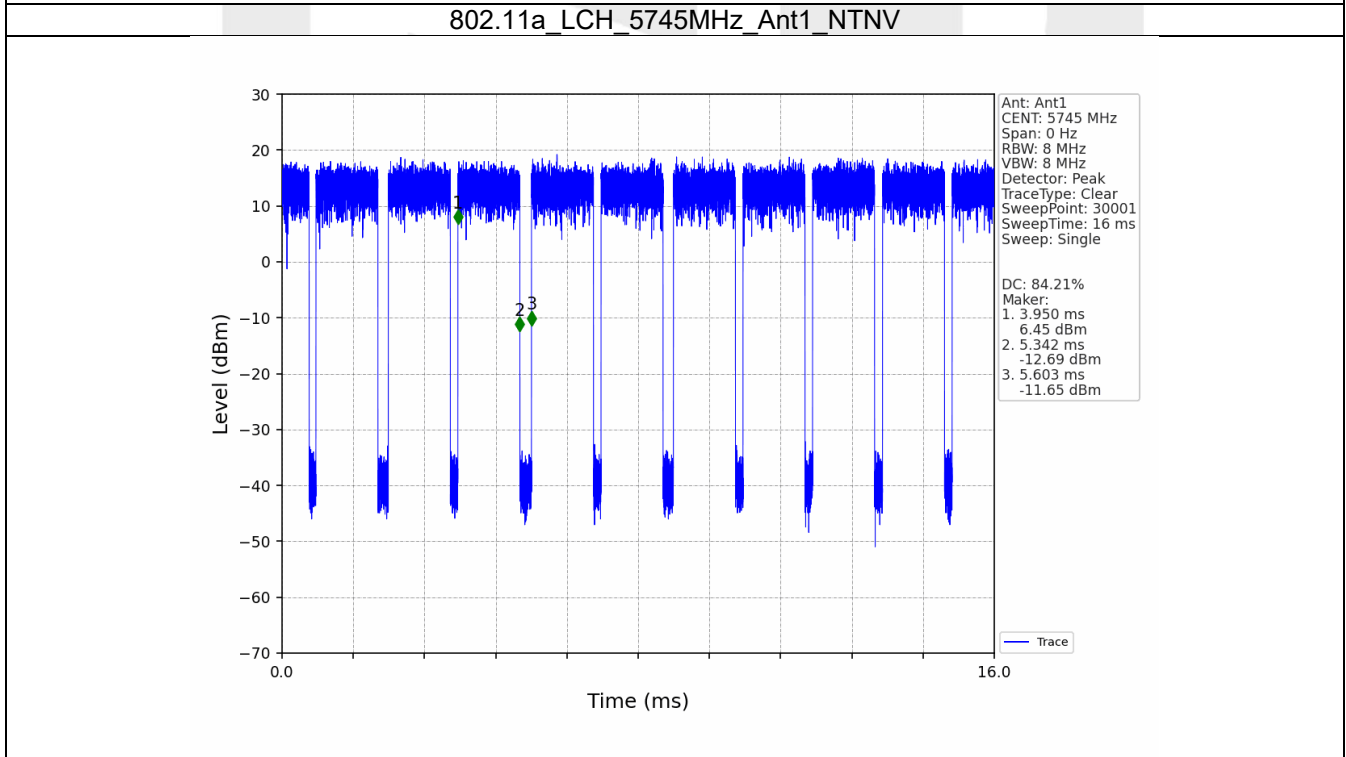
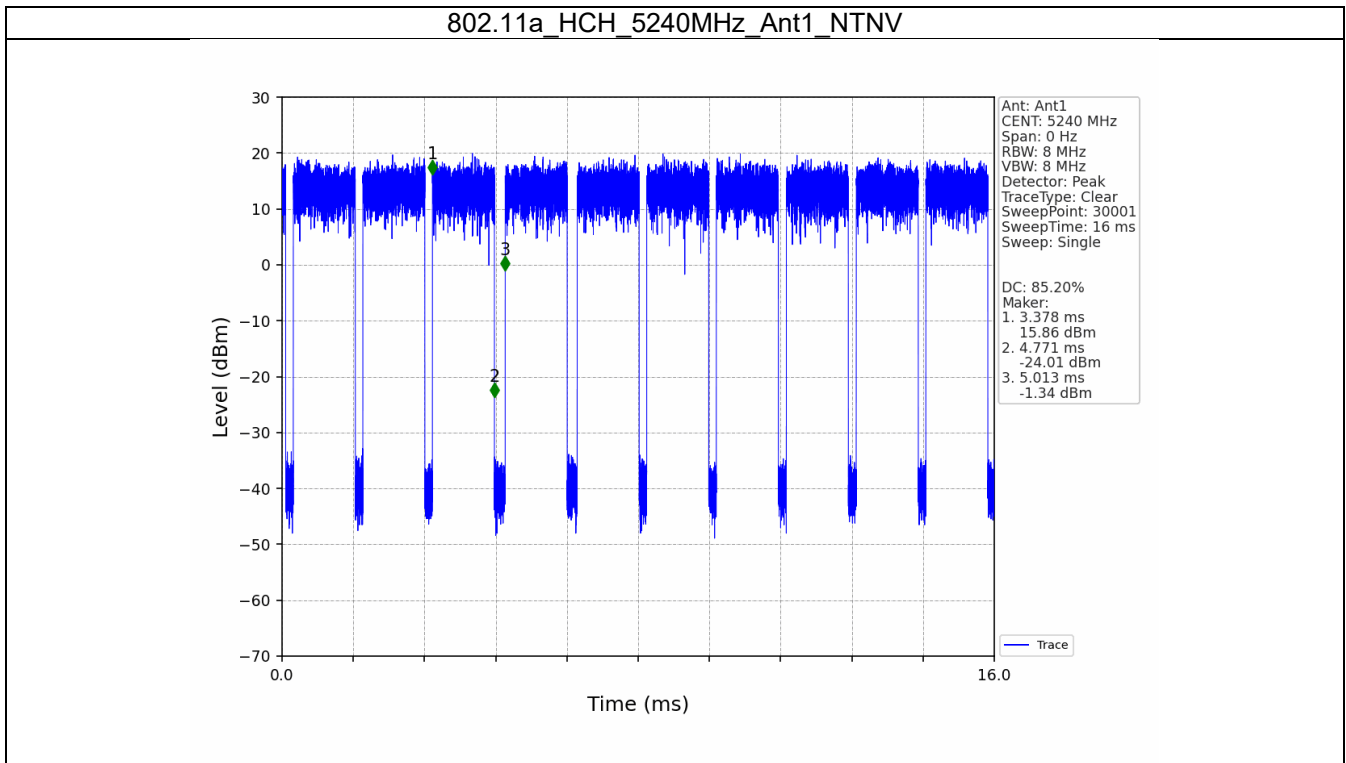
#### 1.1.1 Ant1

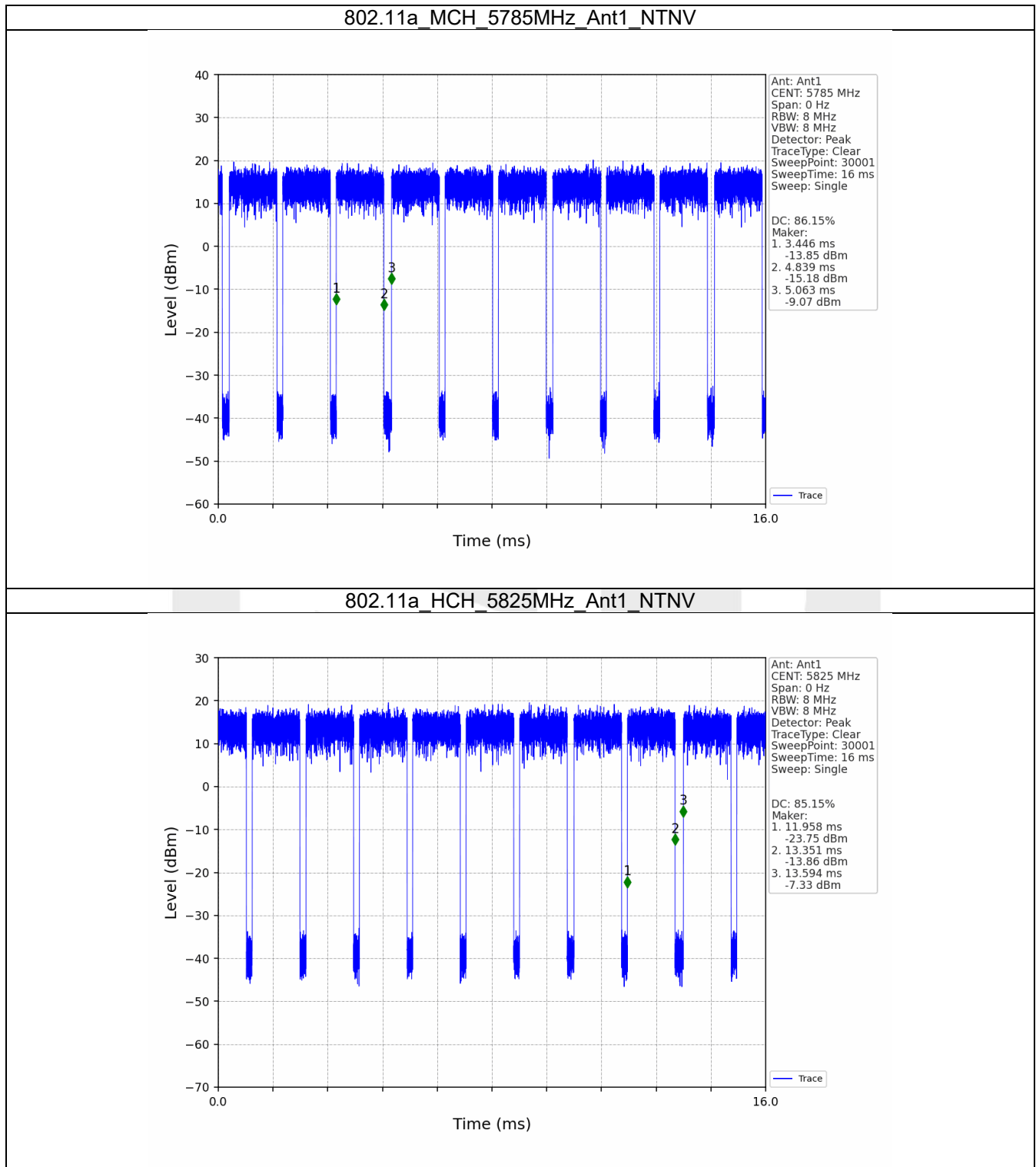
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.599	87.05	0.60	2.51
		5200	1.393	1.635	85.20	0.70	4.44
		5240	1.393	1.635	85.20	0.70	3.93
		5745	1.392	1.653	84.21	0.75	4.87
		5785	1.393	1.617	86.15	0.65	2.97
		5825	1.393	1.636	85.15	0.70	4.44
802.11n (HT20)	SISO	5180	1.300	1.525	85.25	0.69	3.14
		5200	1.301	1.570	82.87	0.82	5.61
		5240	1.301	1.534	84.81	0.72	4.18
		5745	1.301	1.498	86.85	0.61	2.14
		5785	1.300	1.474	88.20	0.55	0.76
		5825	1.301	1.535	84.76	0.72	3.67
802.11n (HT40)	SISO	5190	0.649	0.936	69.34	1.59	10.83
		5230	0.649	0.882	73.58	1.33	6.52
		5755	0.649	0.909	71.40	1.46	8.75
		5795	0.648	0.931	69.60	1.57	10.43

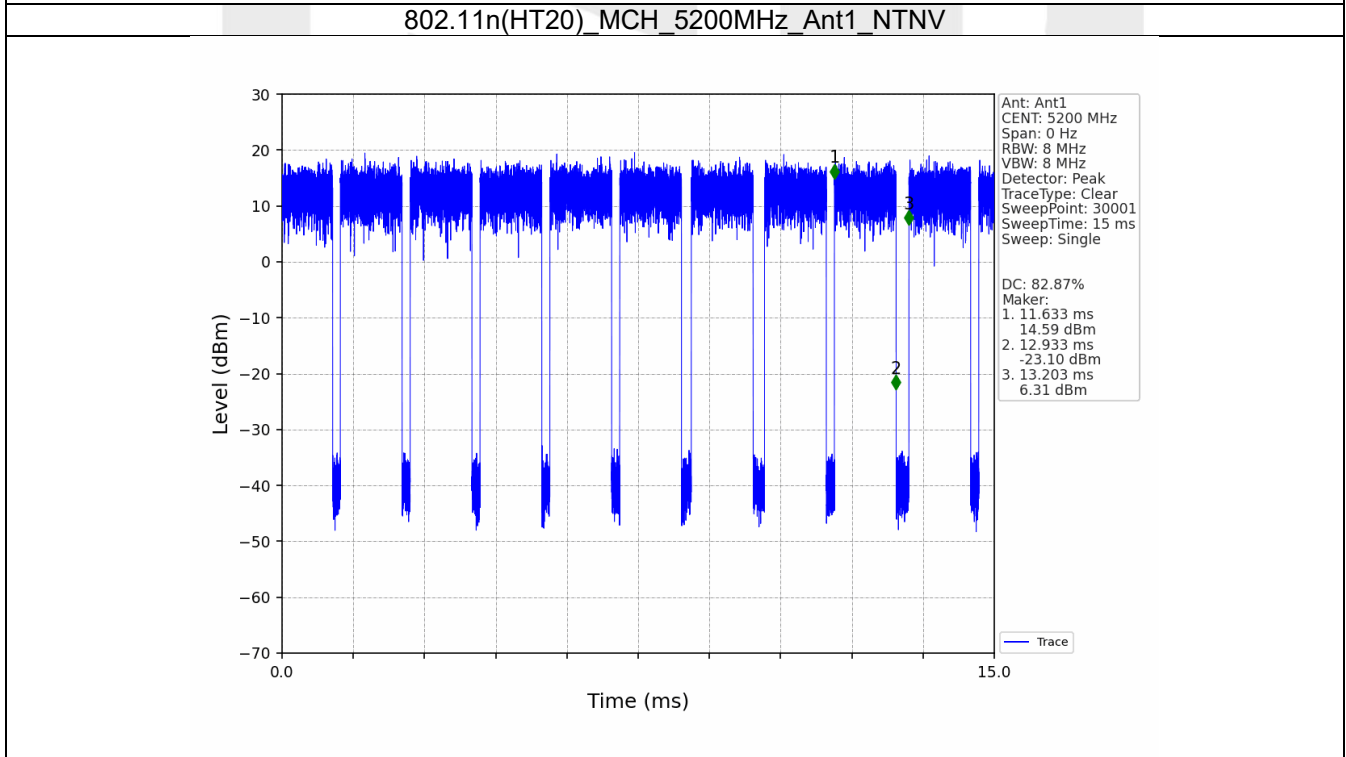
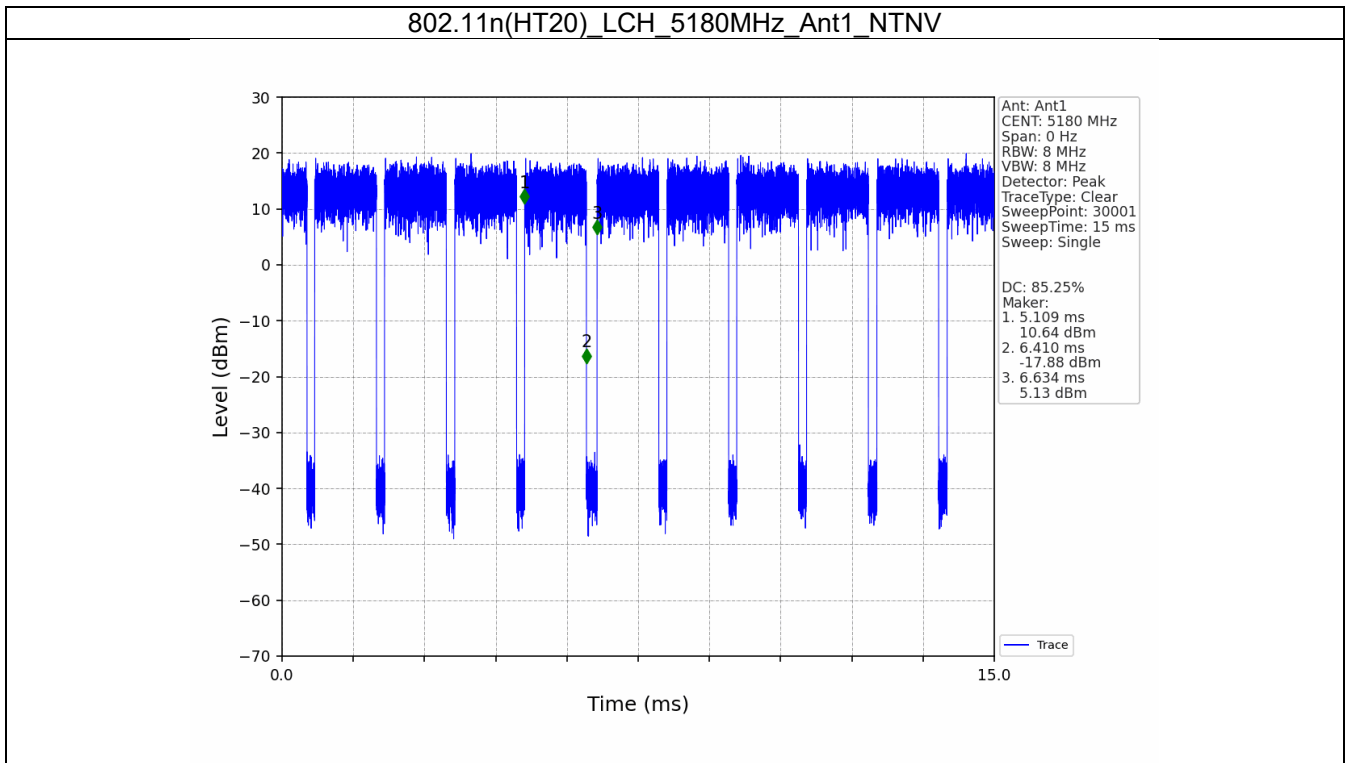
## 1.2 Test Graph

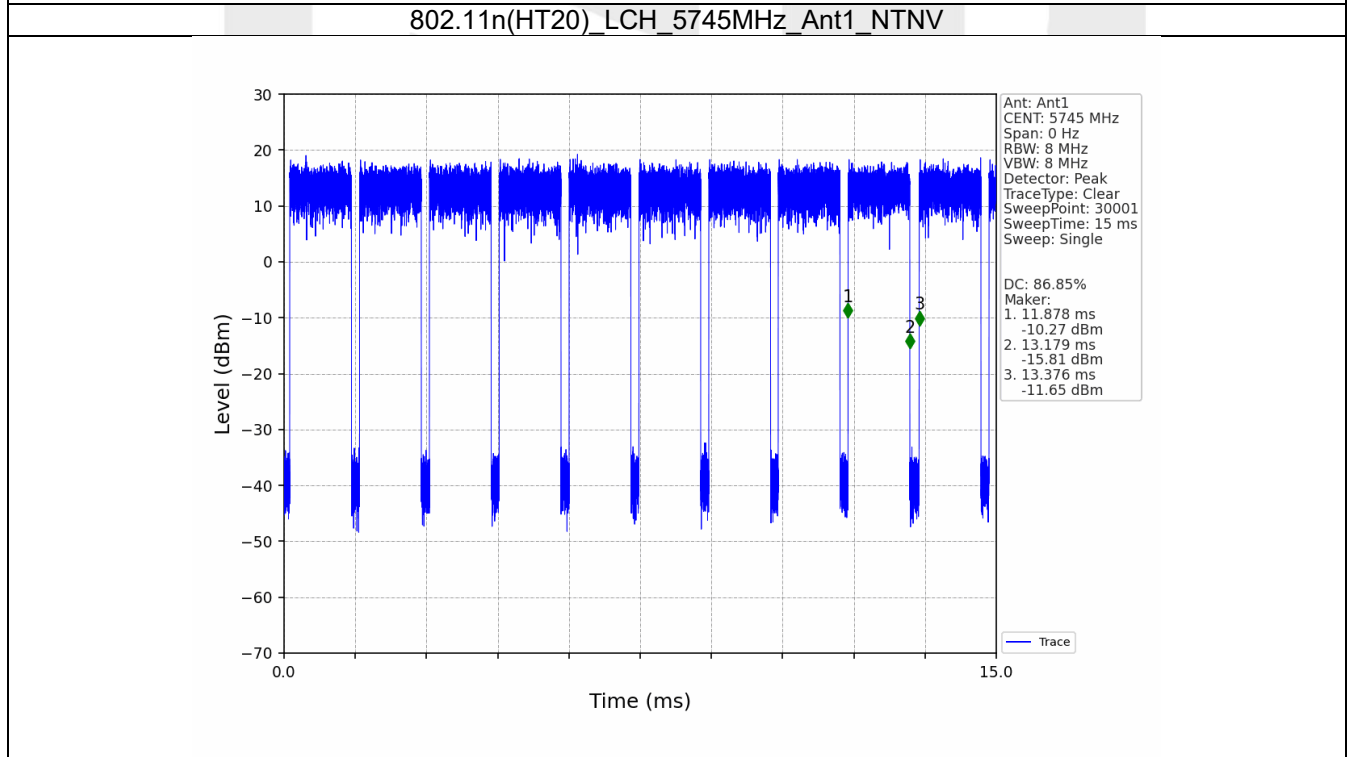
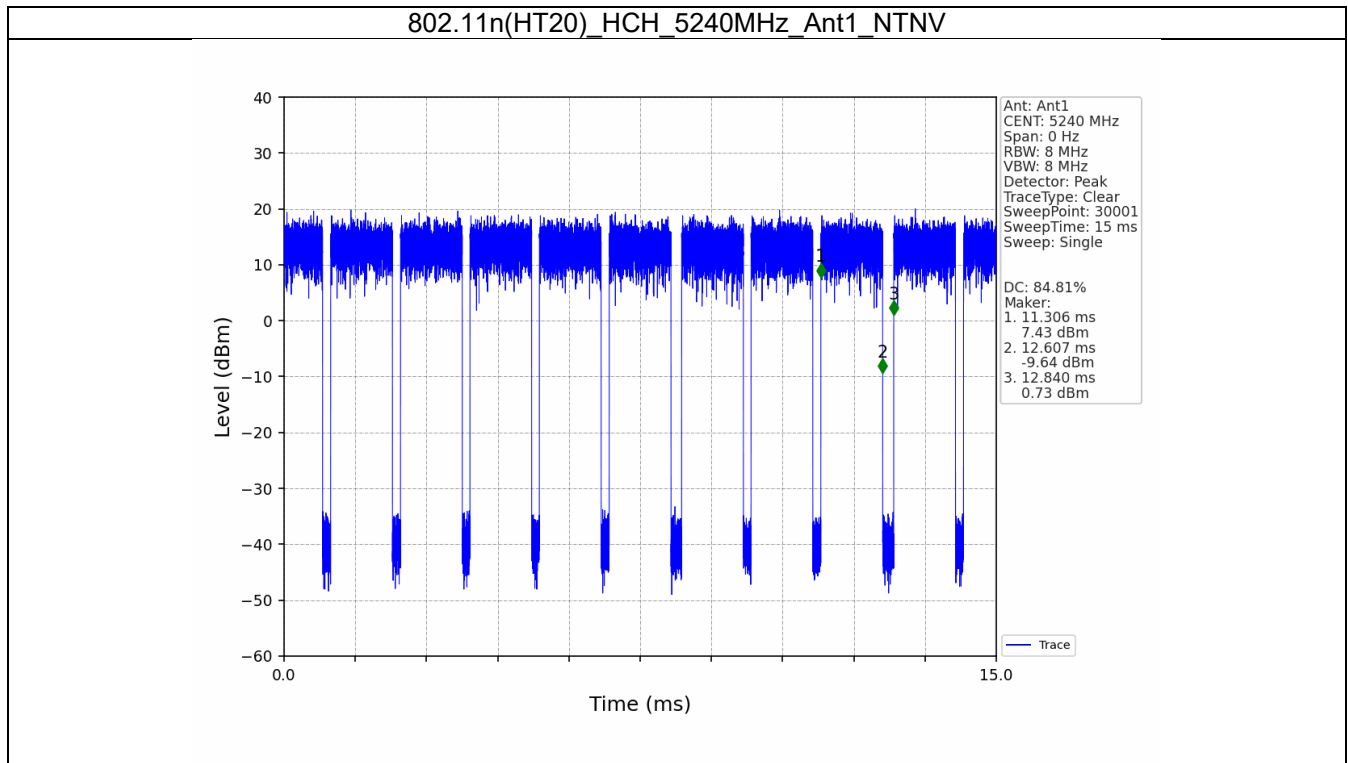
### 1.2.1 Ant1



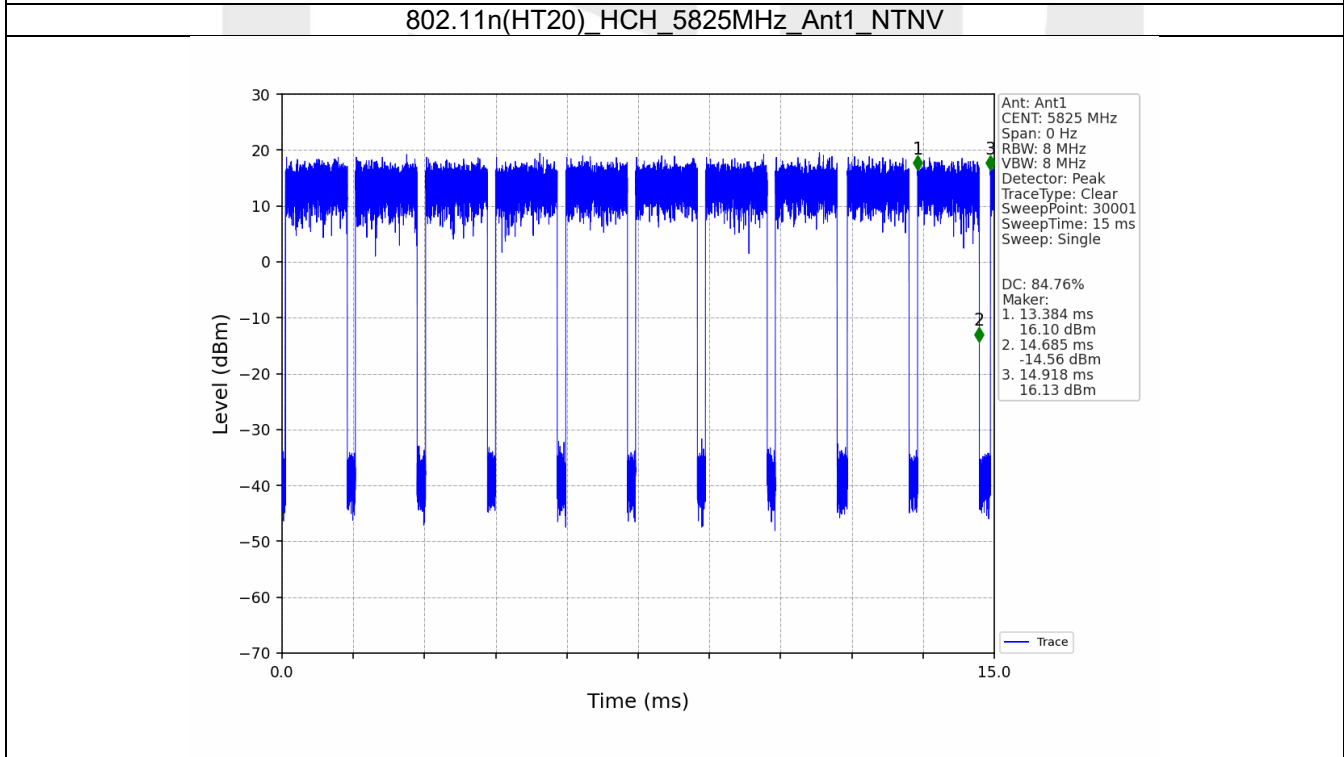
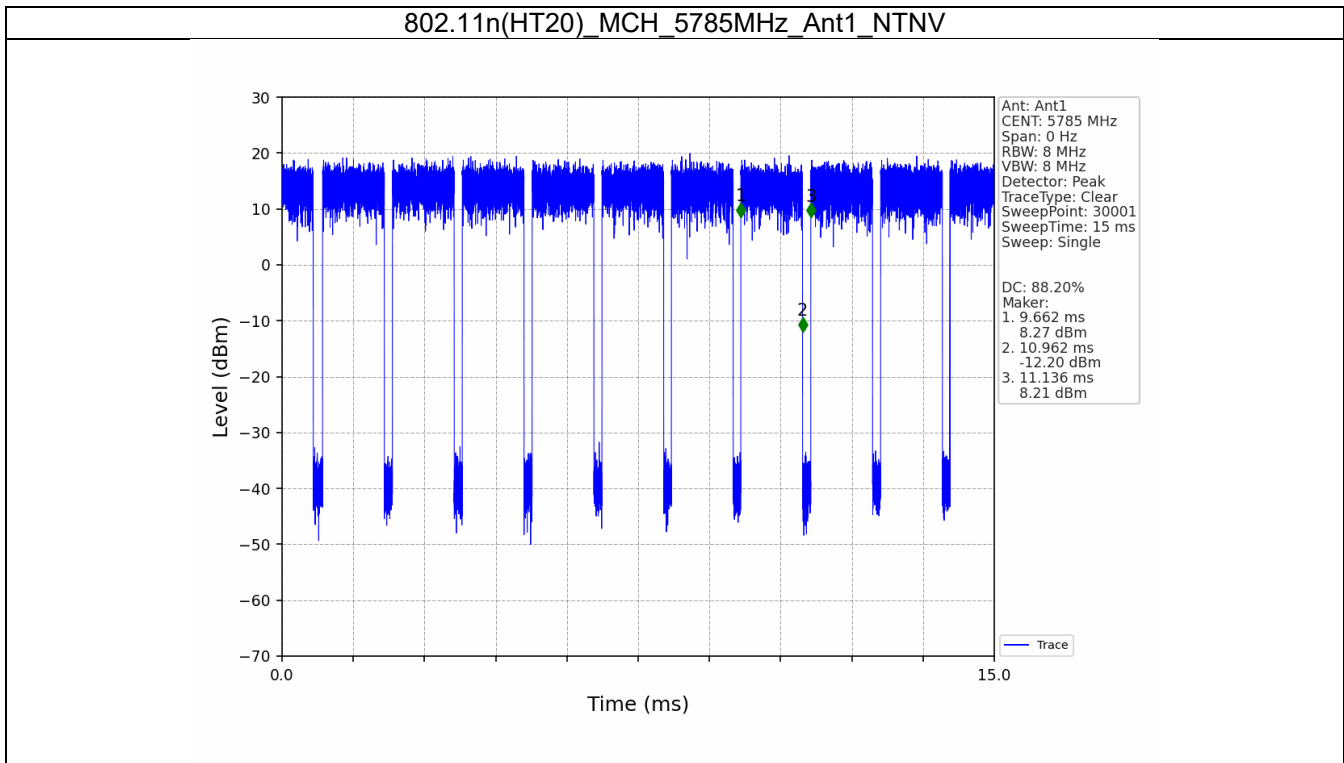


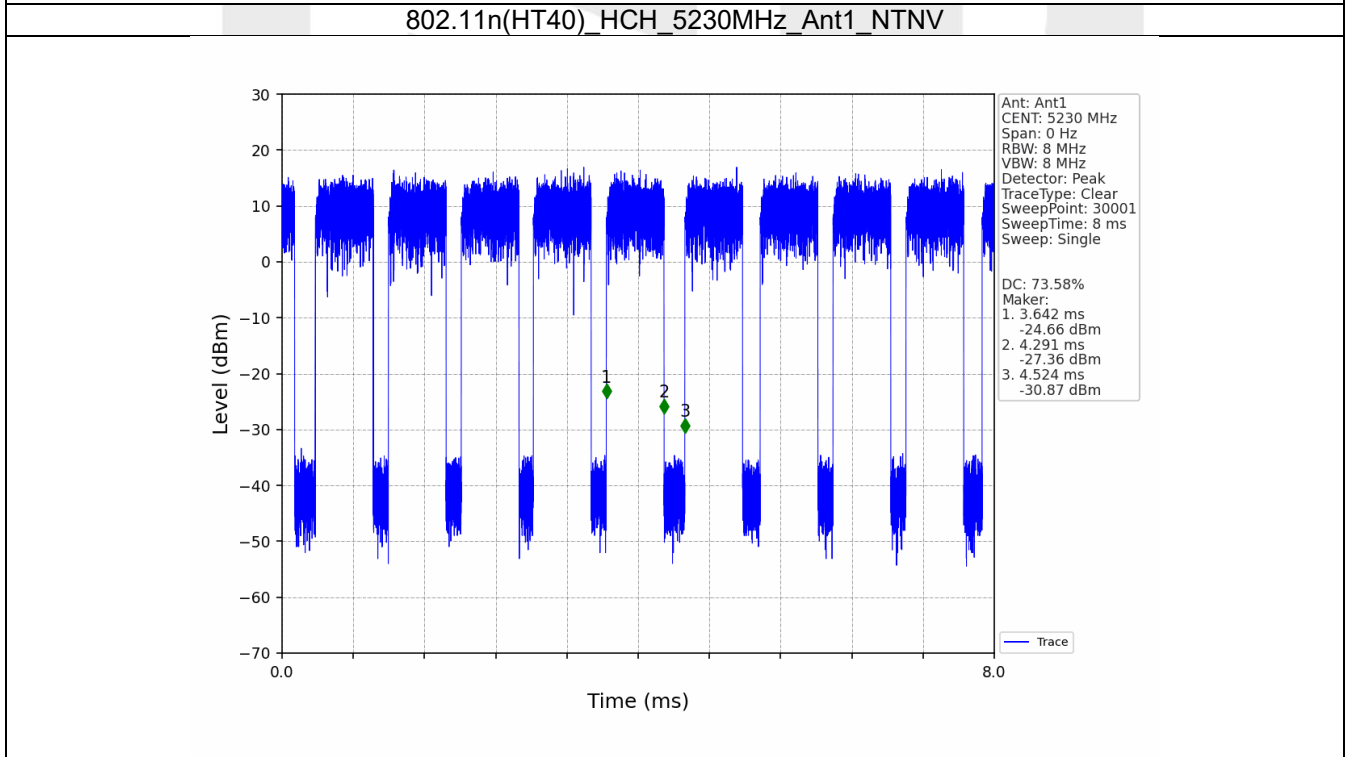
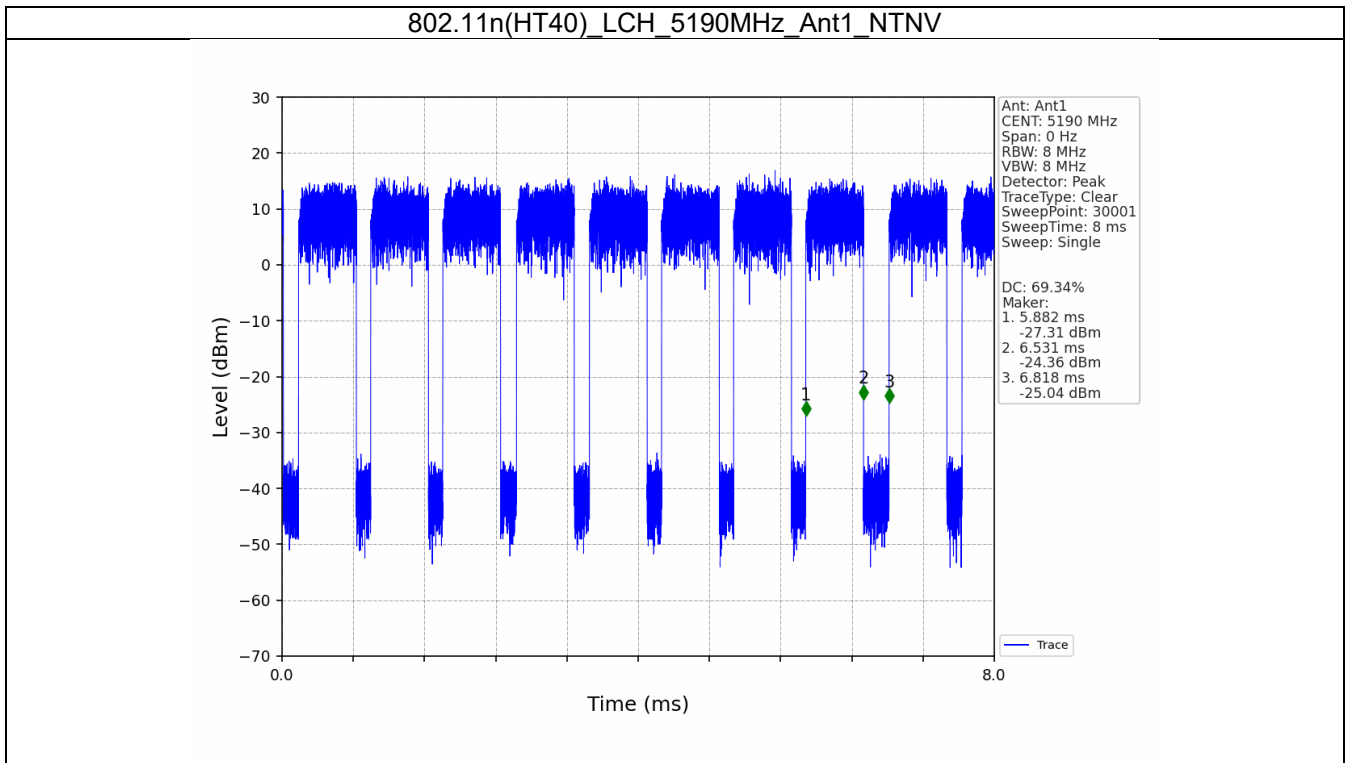




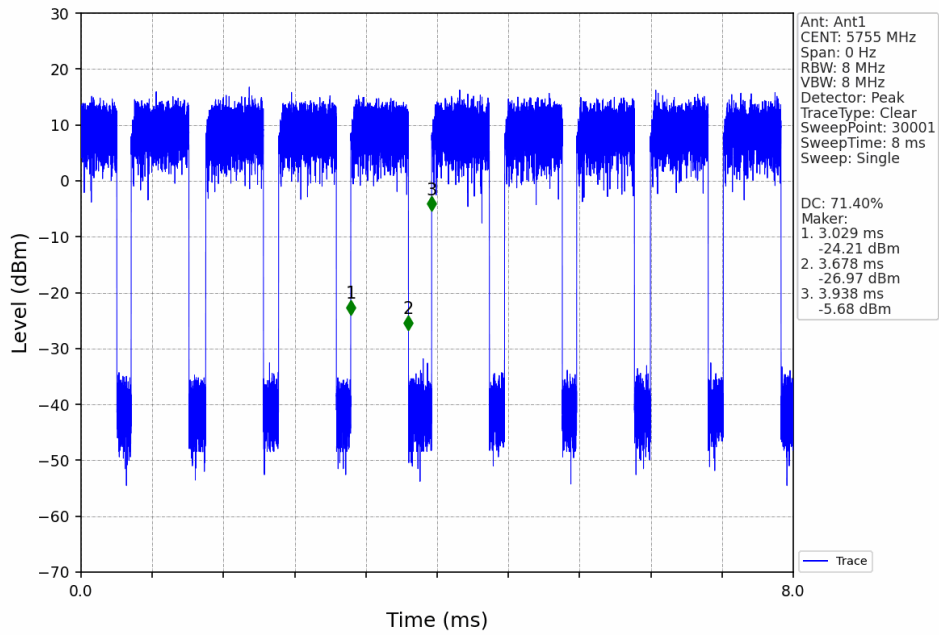




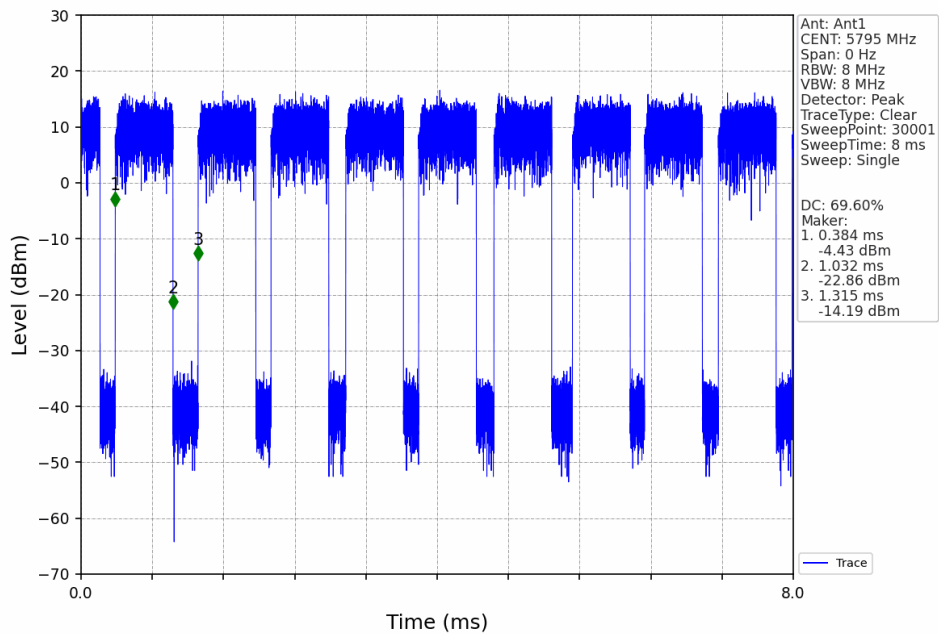




802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.700	/	Pass
		5200	1	17.868	/	Pass
		5240	1	17.878	/	Pass
		5745	1	19.484	/	Pass
		5785	1	19.261	/	Pass
		5825	1	18.724	/	Pass
802.11n (HT20)	SISO	5180	1	19.838	/	Pass
		5200	1	20.212	/	Pass
		5240	1	19.978	/	Pass
		5745	1	20.939	/	Pass
		5785	1	20.422	/	Pass
		5825	1	20.374	/	Pass
802.11n (HT40)	SISO	5190	1	37.067	/	Pass
		5230	1	37.042	/	Pass
		5755	1	38.354	/	Pass
		5795	1	37.432	/	Pass

#### 2.1.2 6dB BW

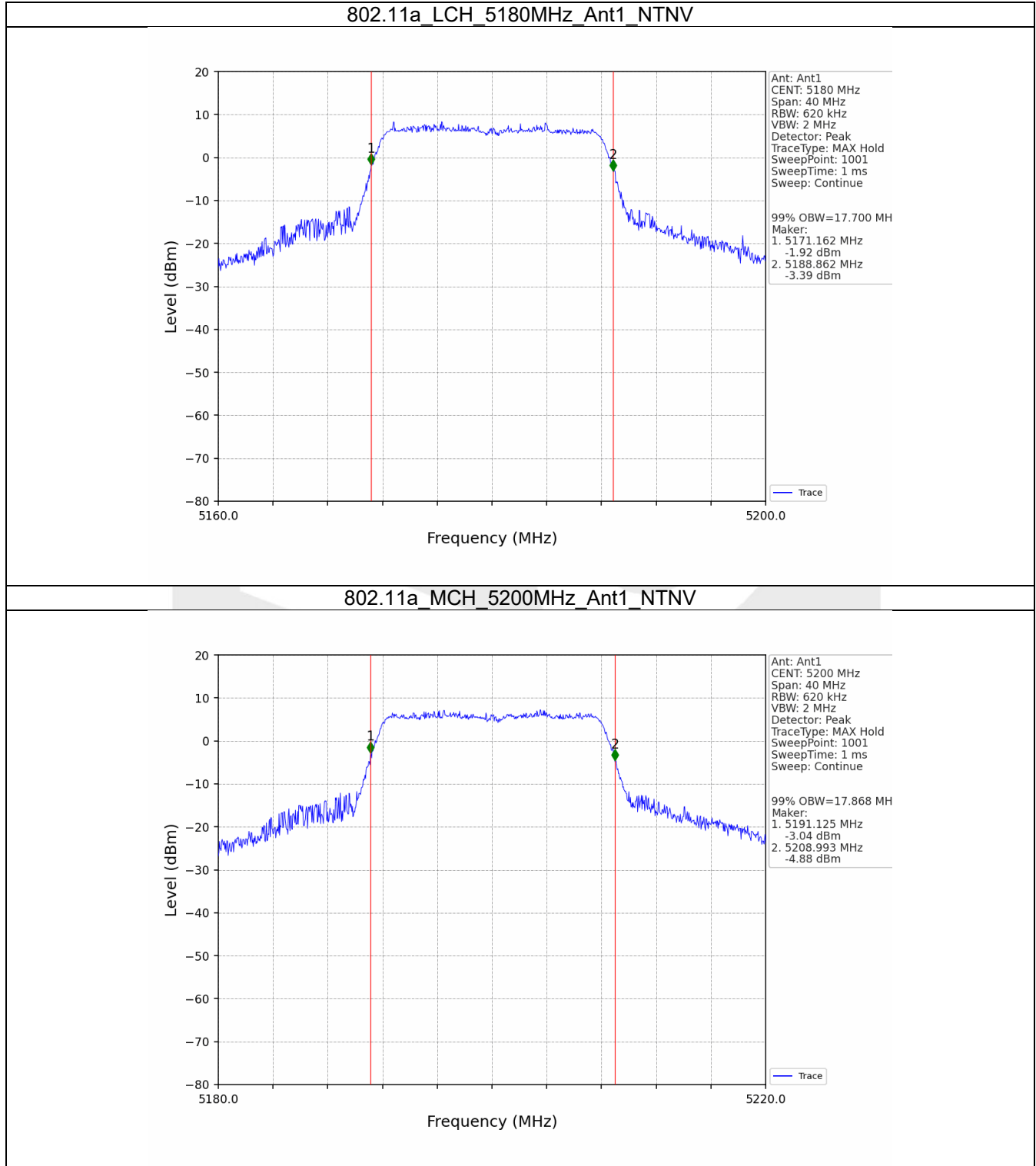
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.389	$\geq 0.5$	Pass
		5785	1	16.418	$\geq 0.5$	Pass
		5825	1	16.362	$\geq 0.5$	Pass
802.11n (HT20)	SISO	5745	1	17.309	$\geq 0.5$	Pass
		5785	1	16.967	$\geq 0.5$	Pass
		5825	1	17.071	$\geq 0.5$	Pass
802.11n (HT40)	SISO	5755	1	35.402	$\geq 0.5$	Pass
		5795	1	35.687	$\geq 0.5$	Pass

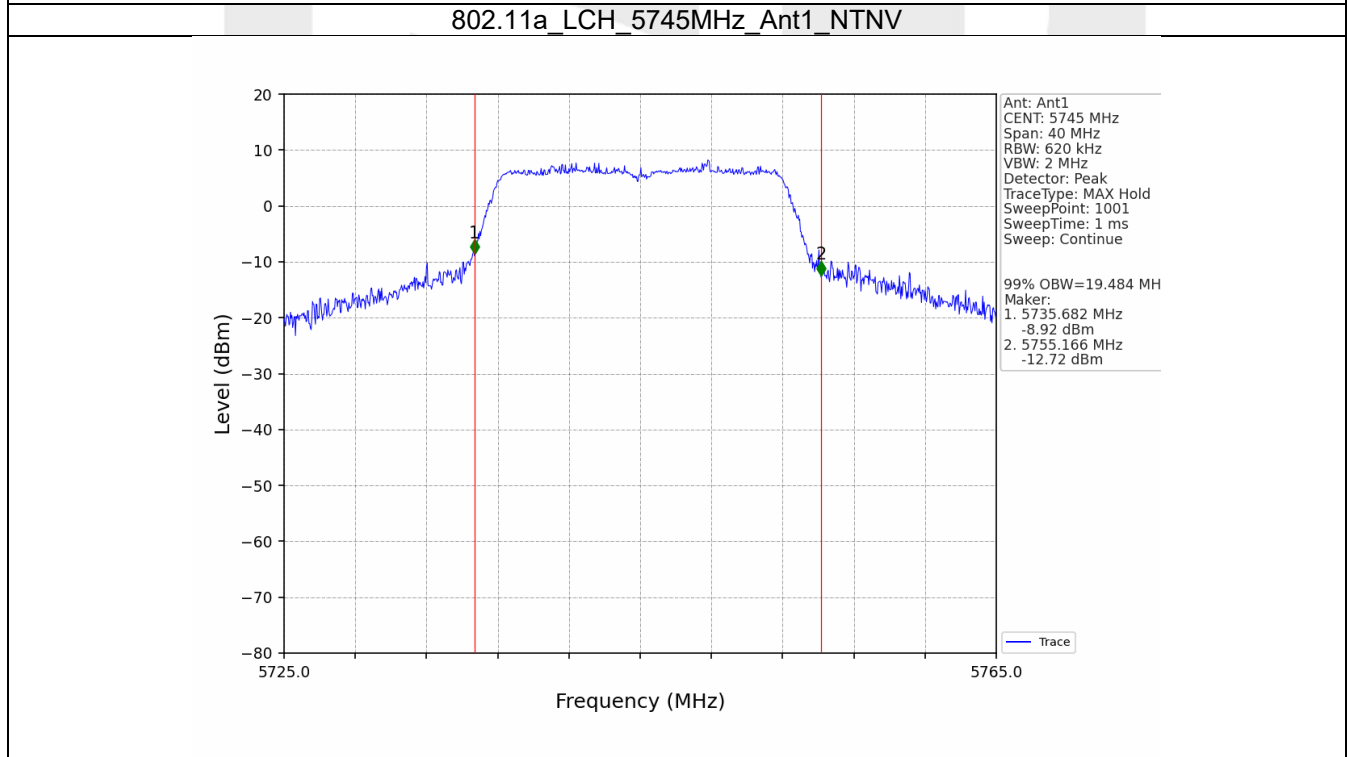
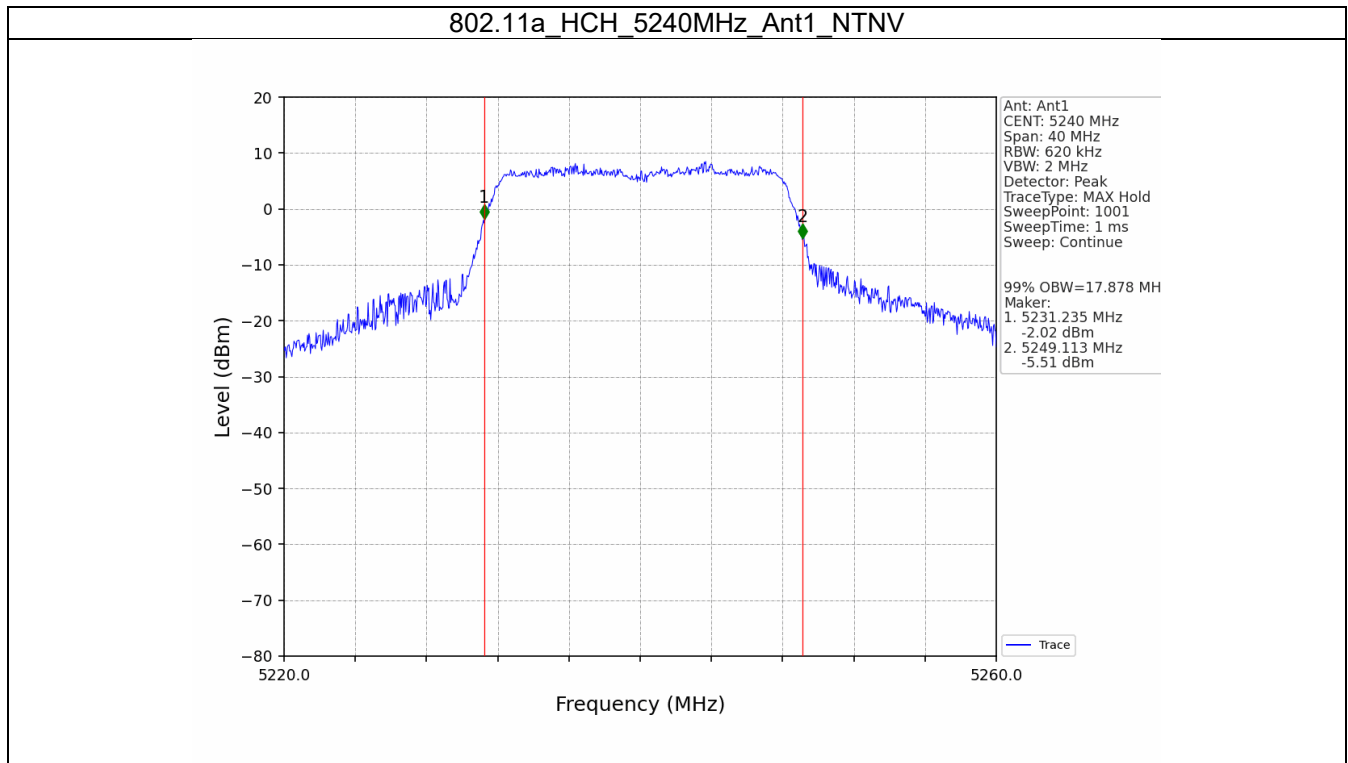
#### 2.1.3 26dB BW

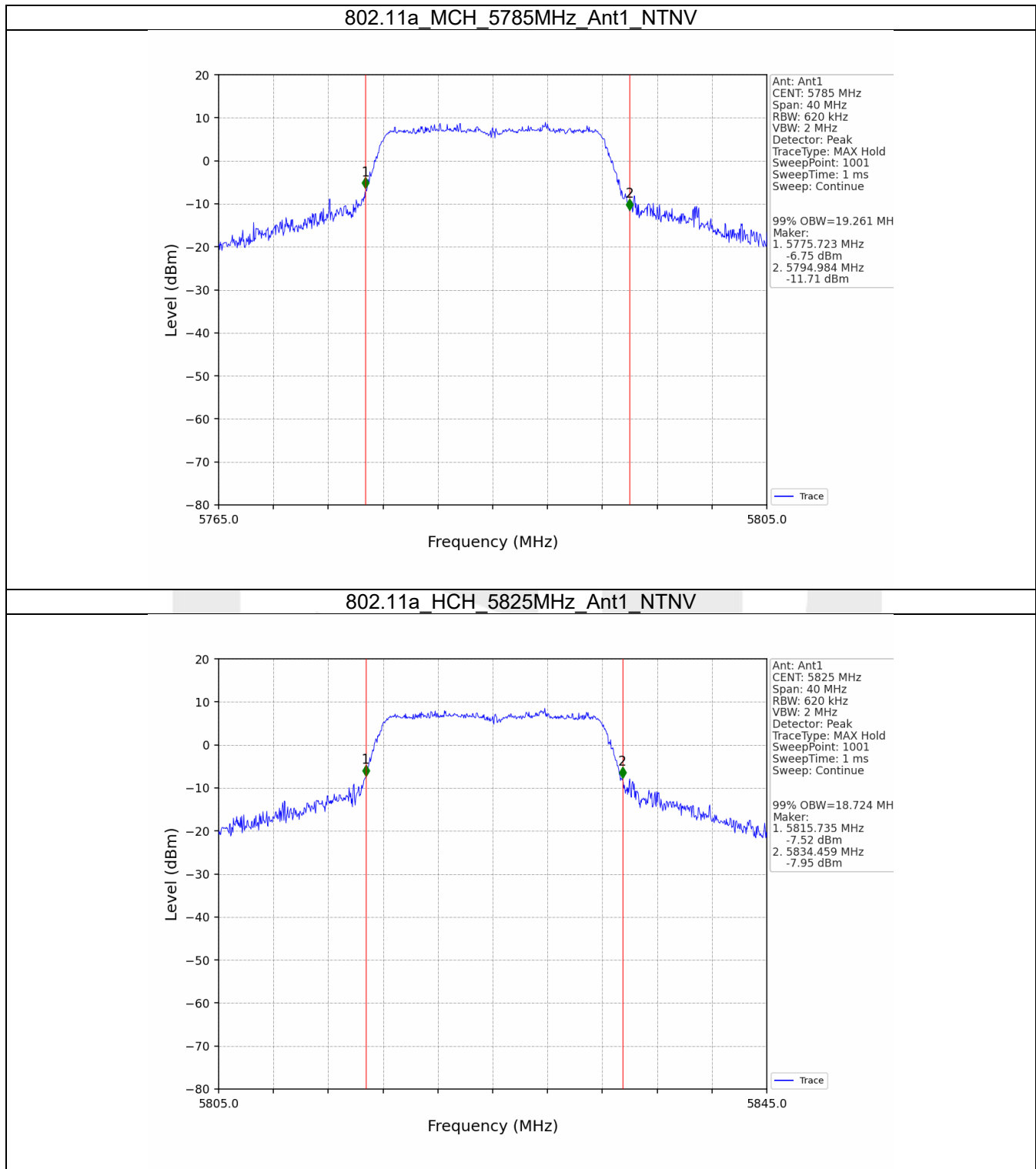
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	25.543	/	Pass
		5200	1	26.513	/	Pass
		5240	1	25.782	/	Pass
802.11n (HT20)	SISO	5180	1	28.552	/	Pass
		5200	1	29.589	/	Pass
		5240	1	28.096	/	Pass
802.11n (HT40)	SISO	5190	1	57.517	/	Pass
		5230	1	55.137	/	Pass

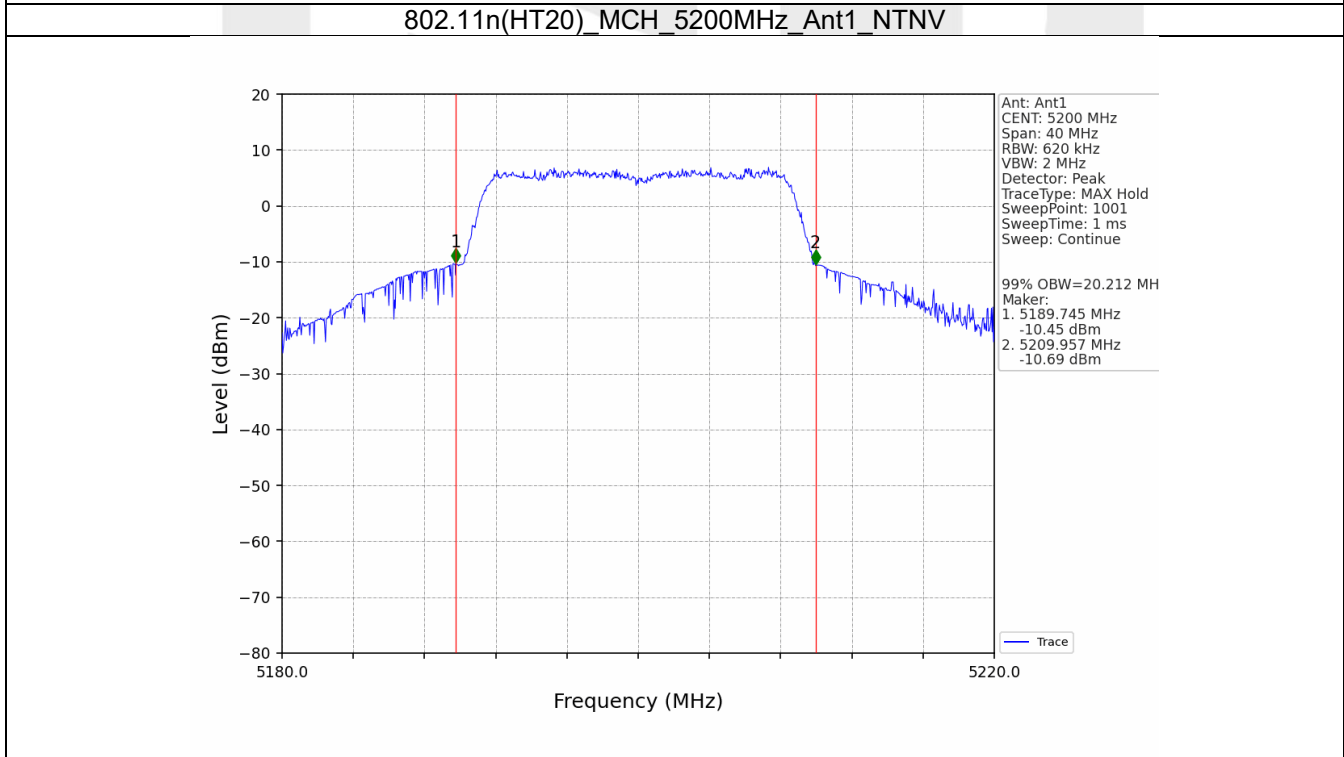
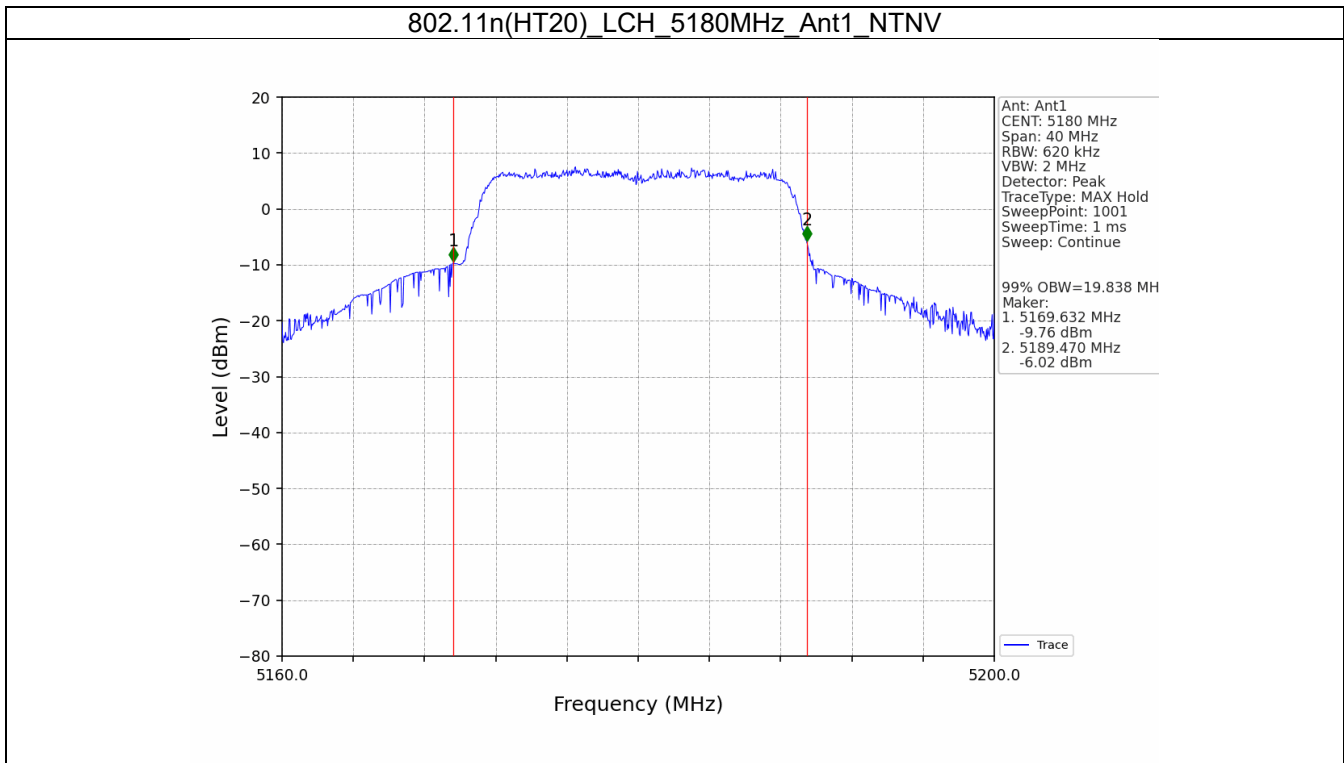
## 2.2 Test Graph

### 2.2.1 OBW

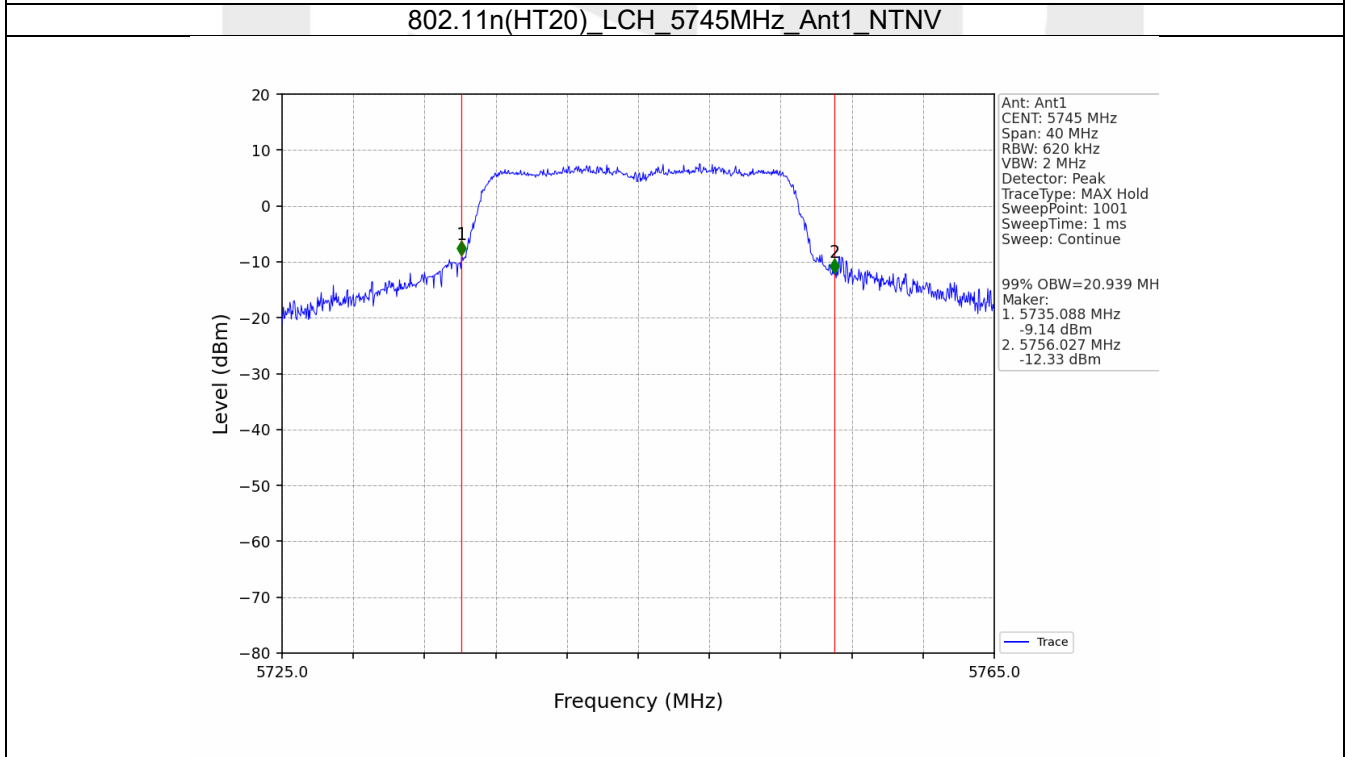
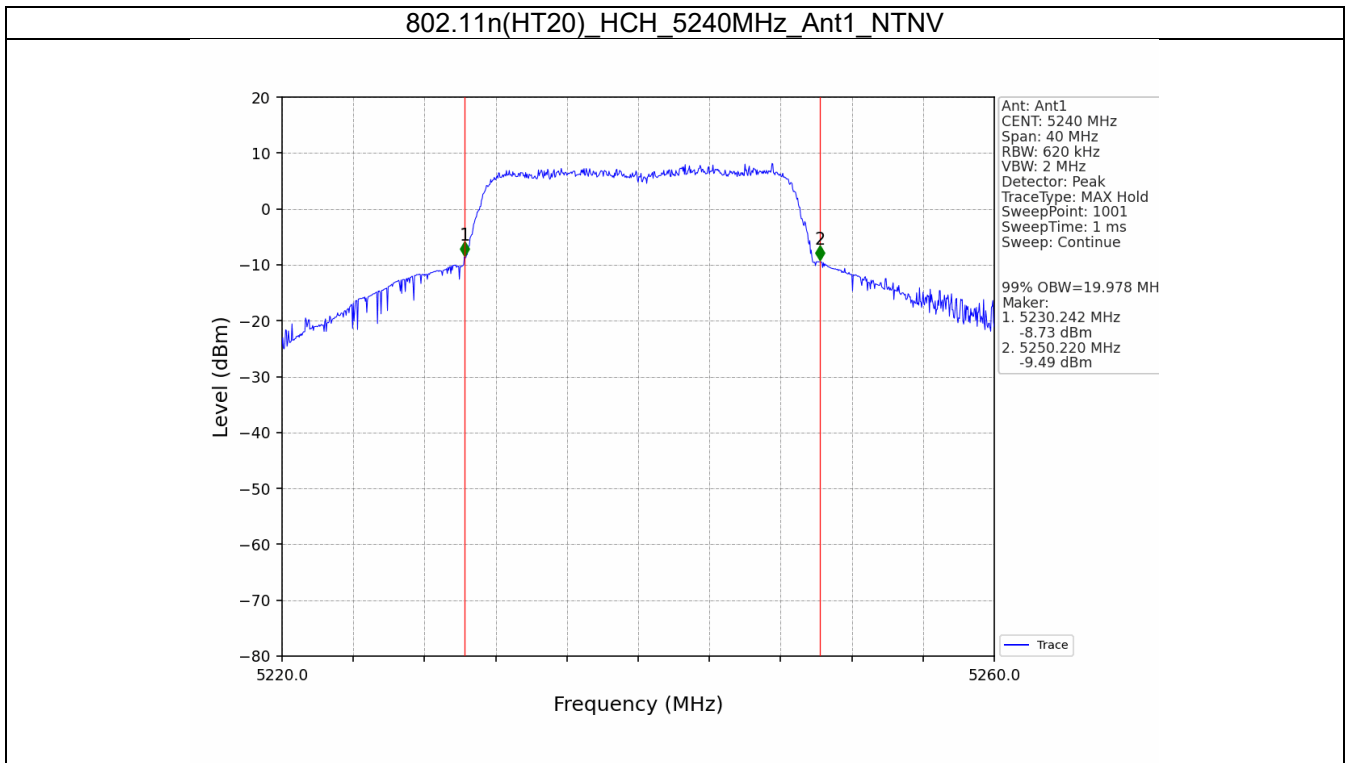


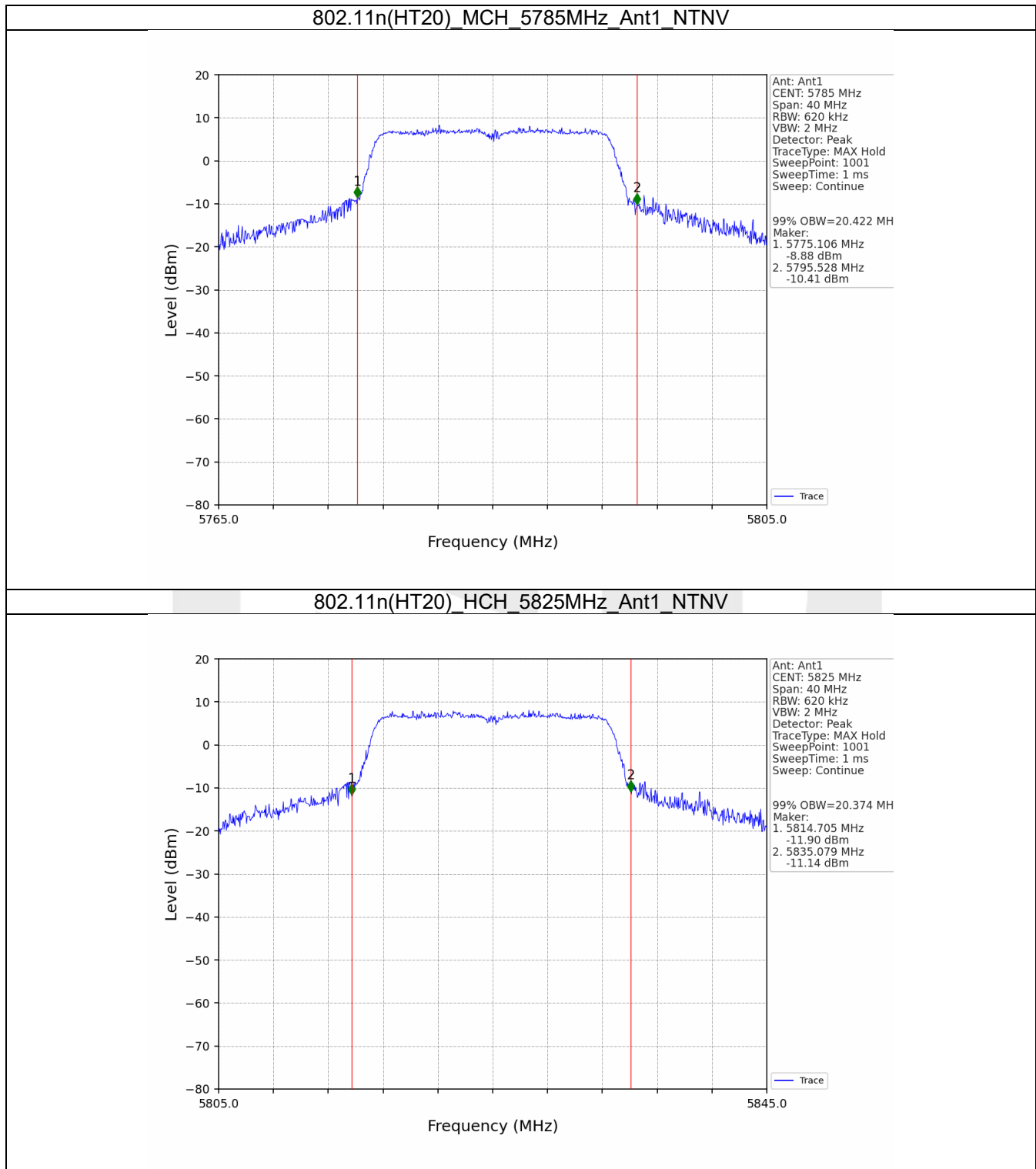


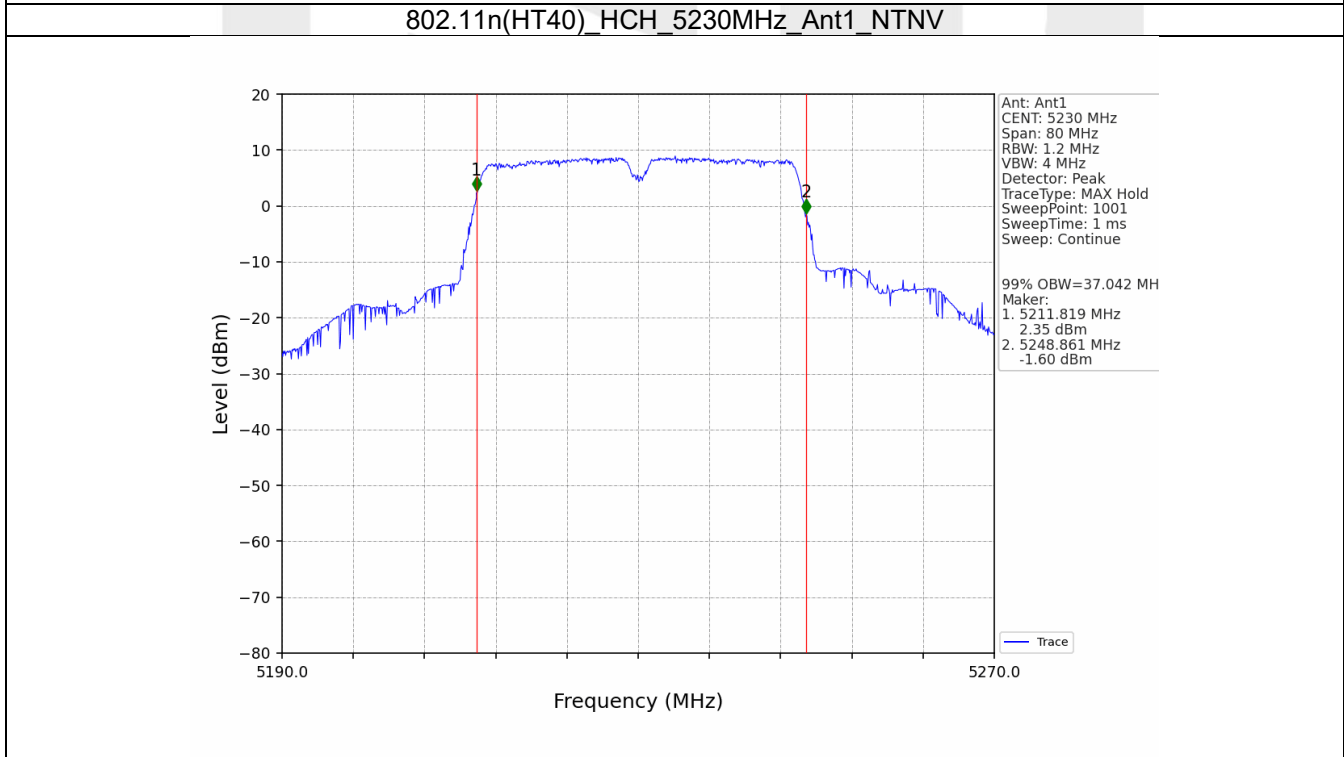
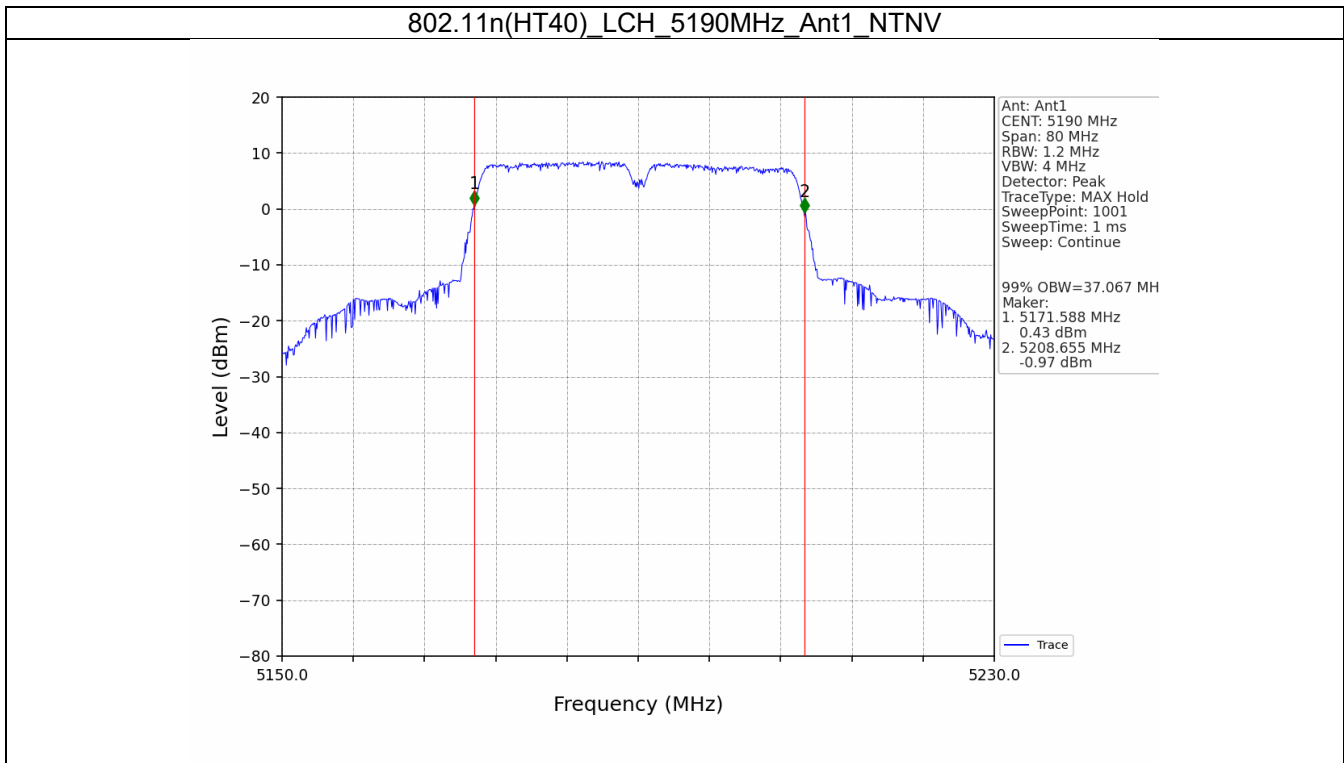


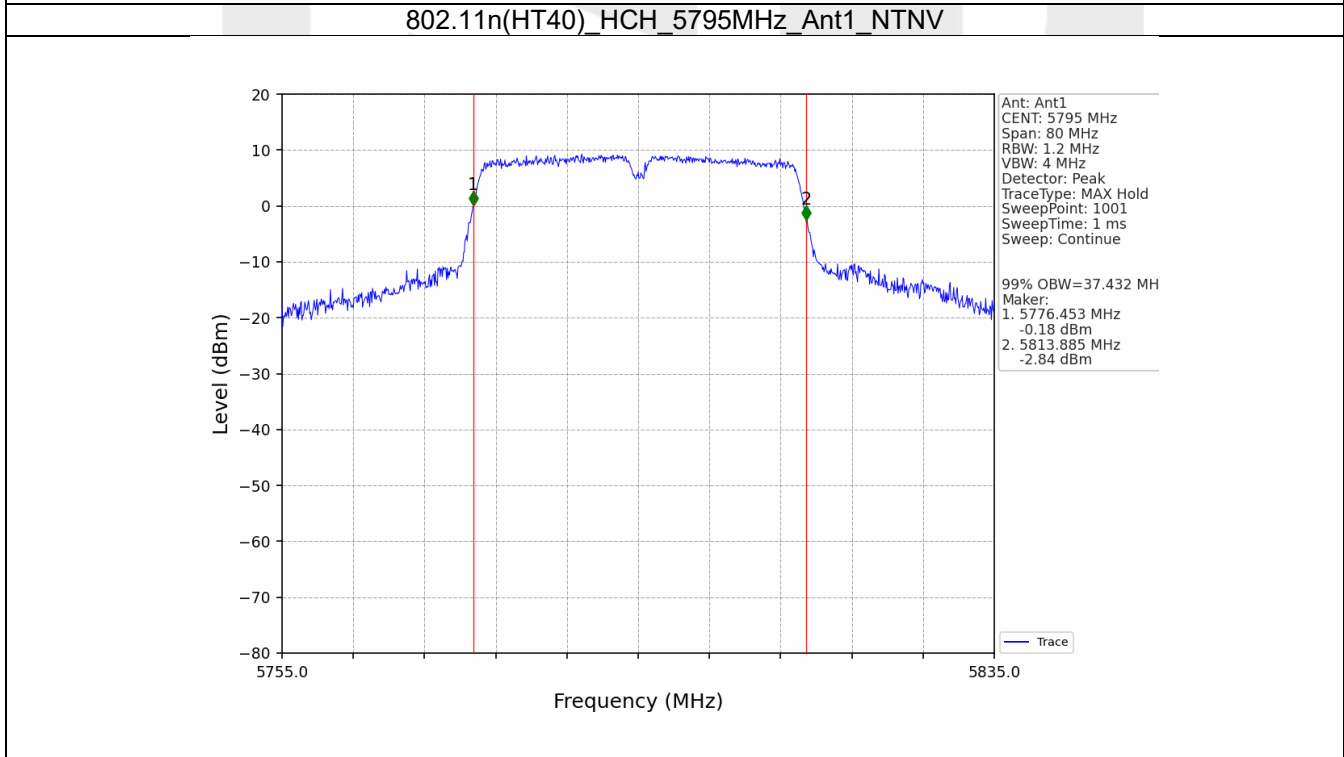
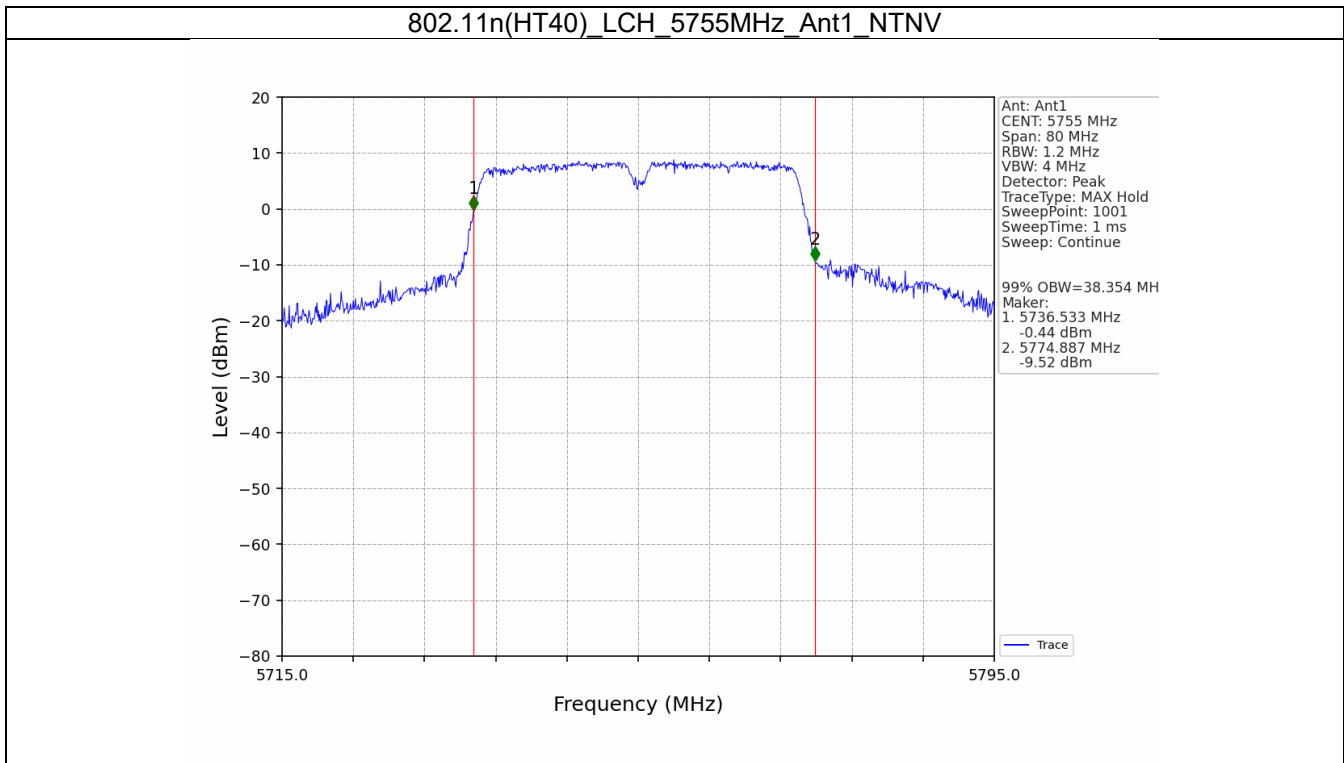




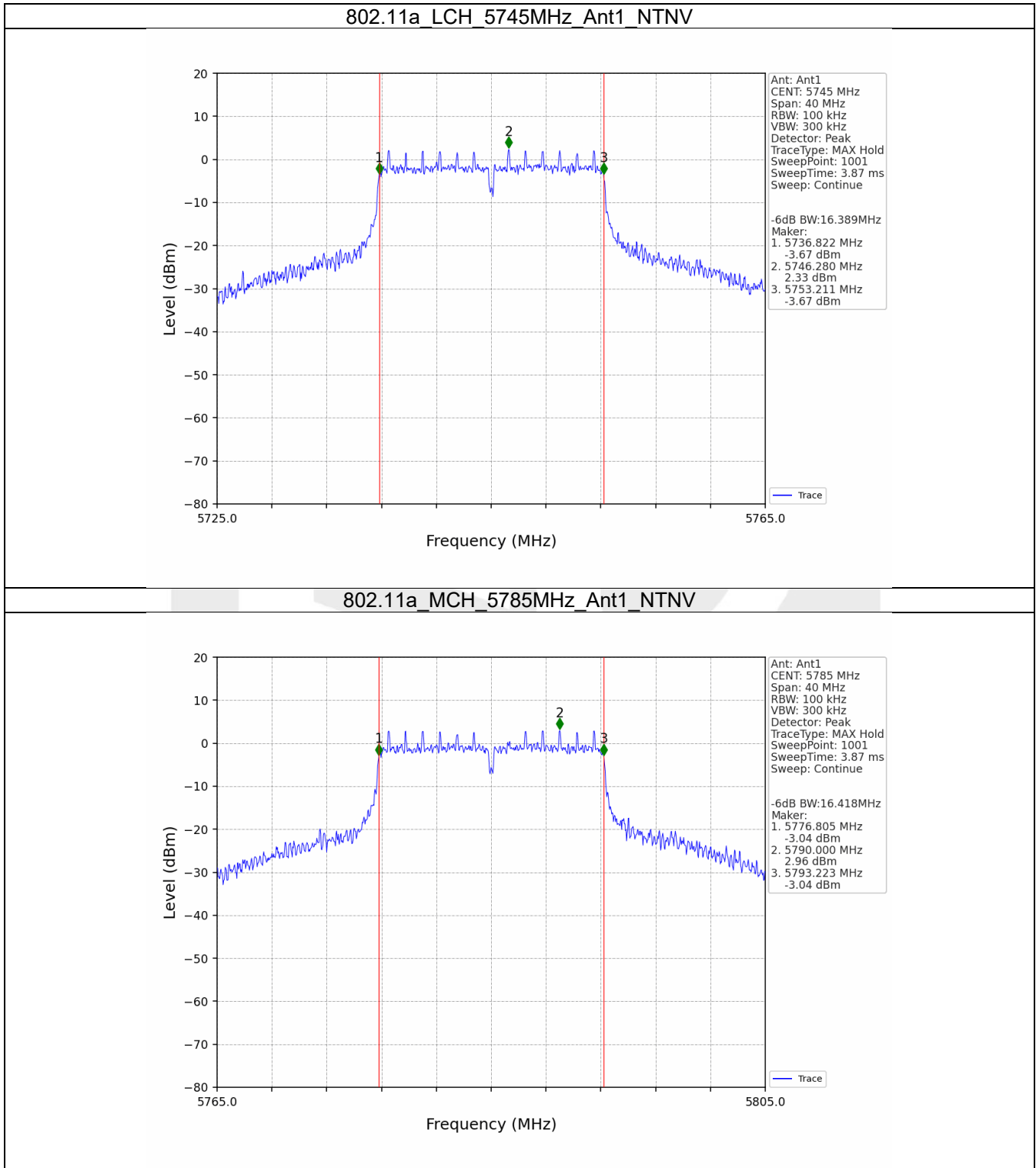


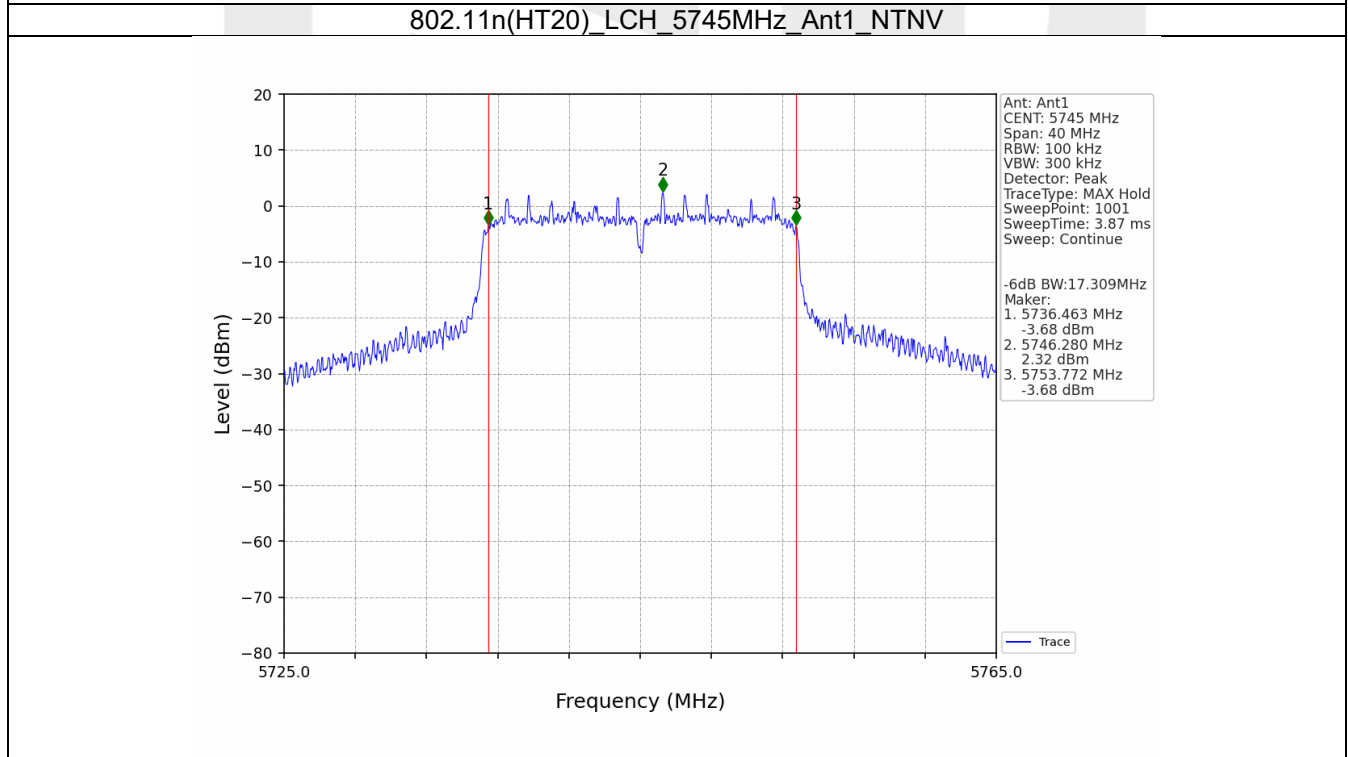
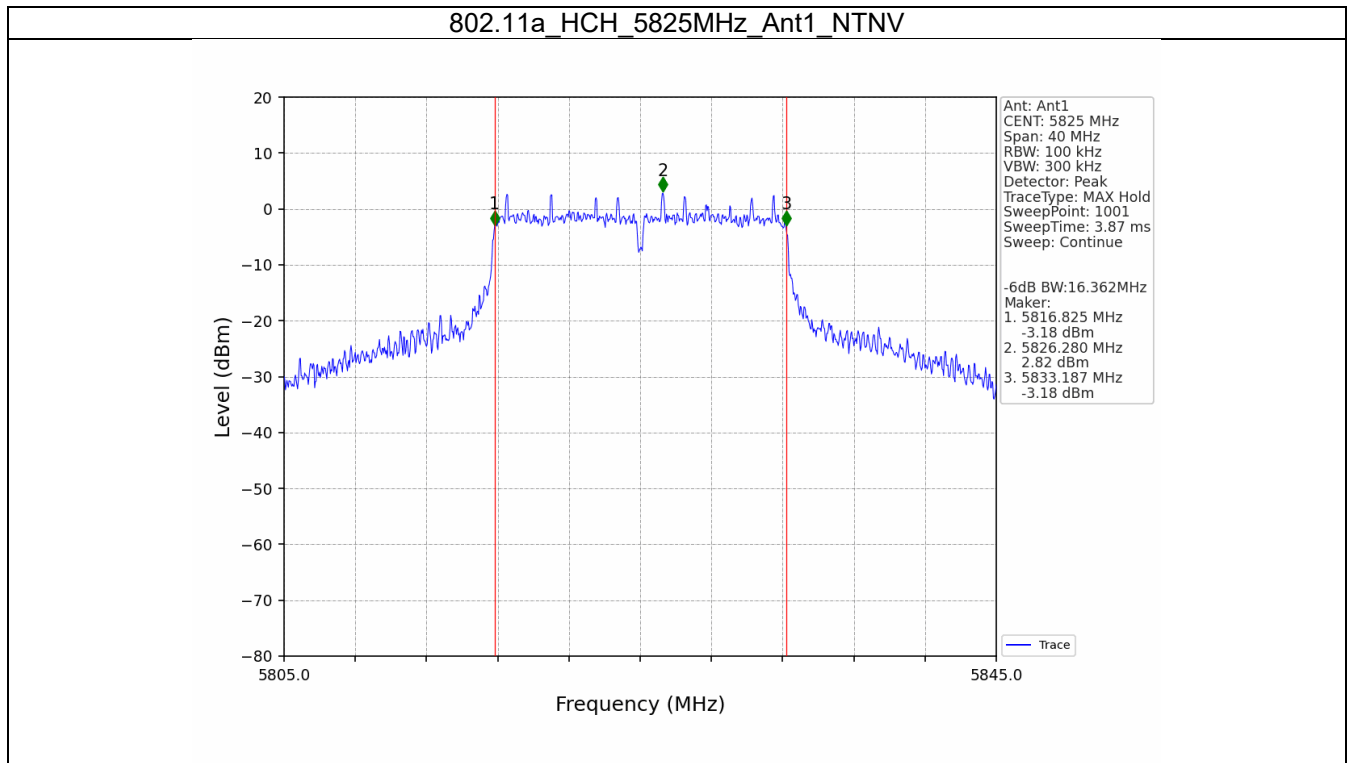


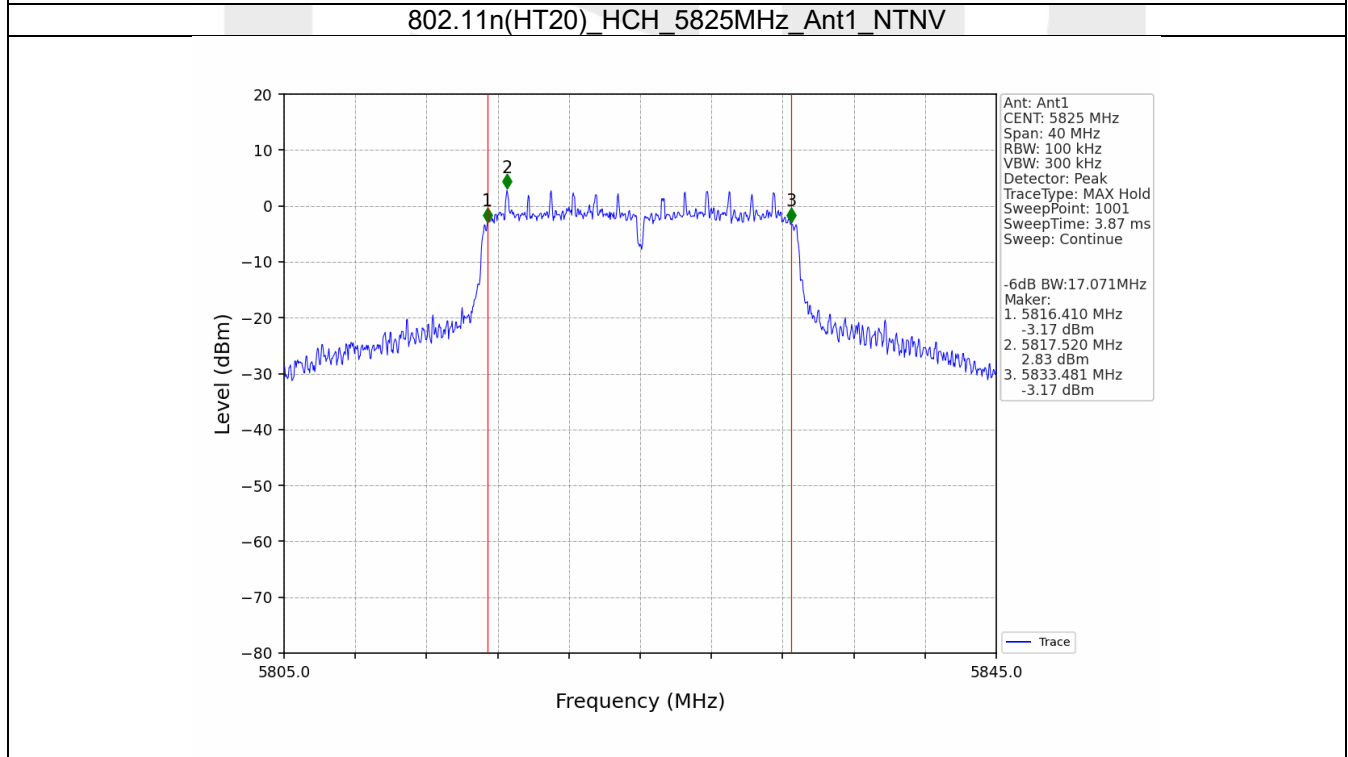
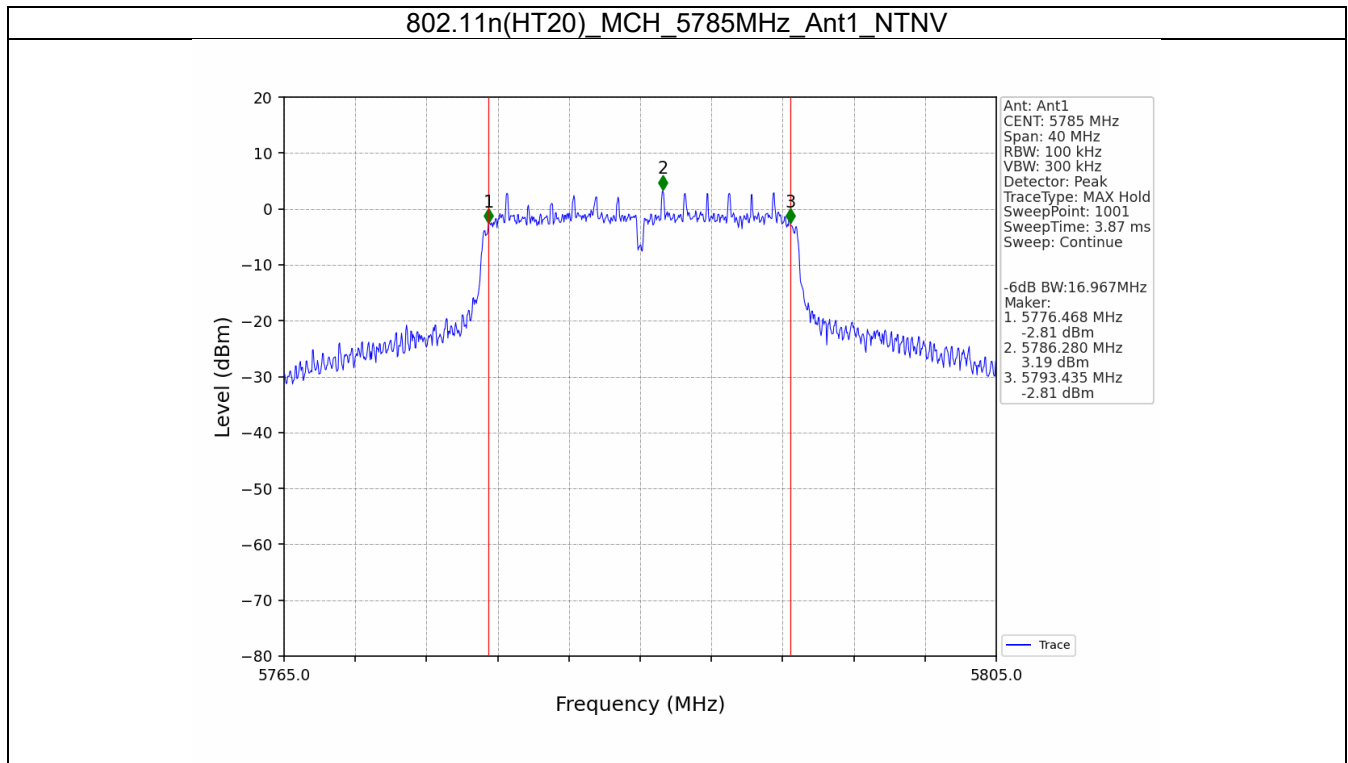


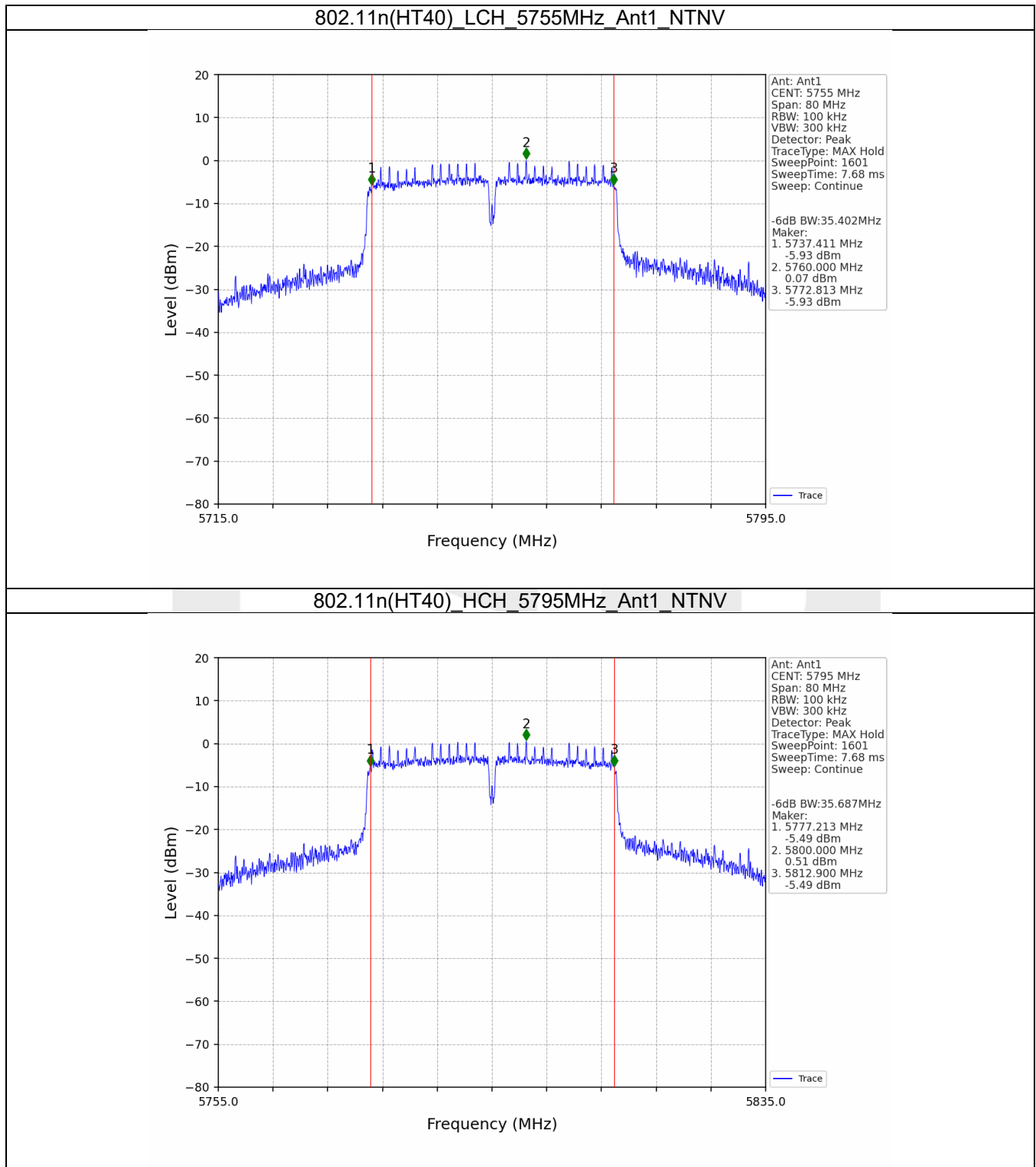


2.2.2 6dB BW



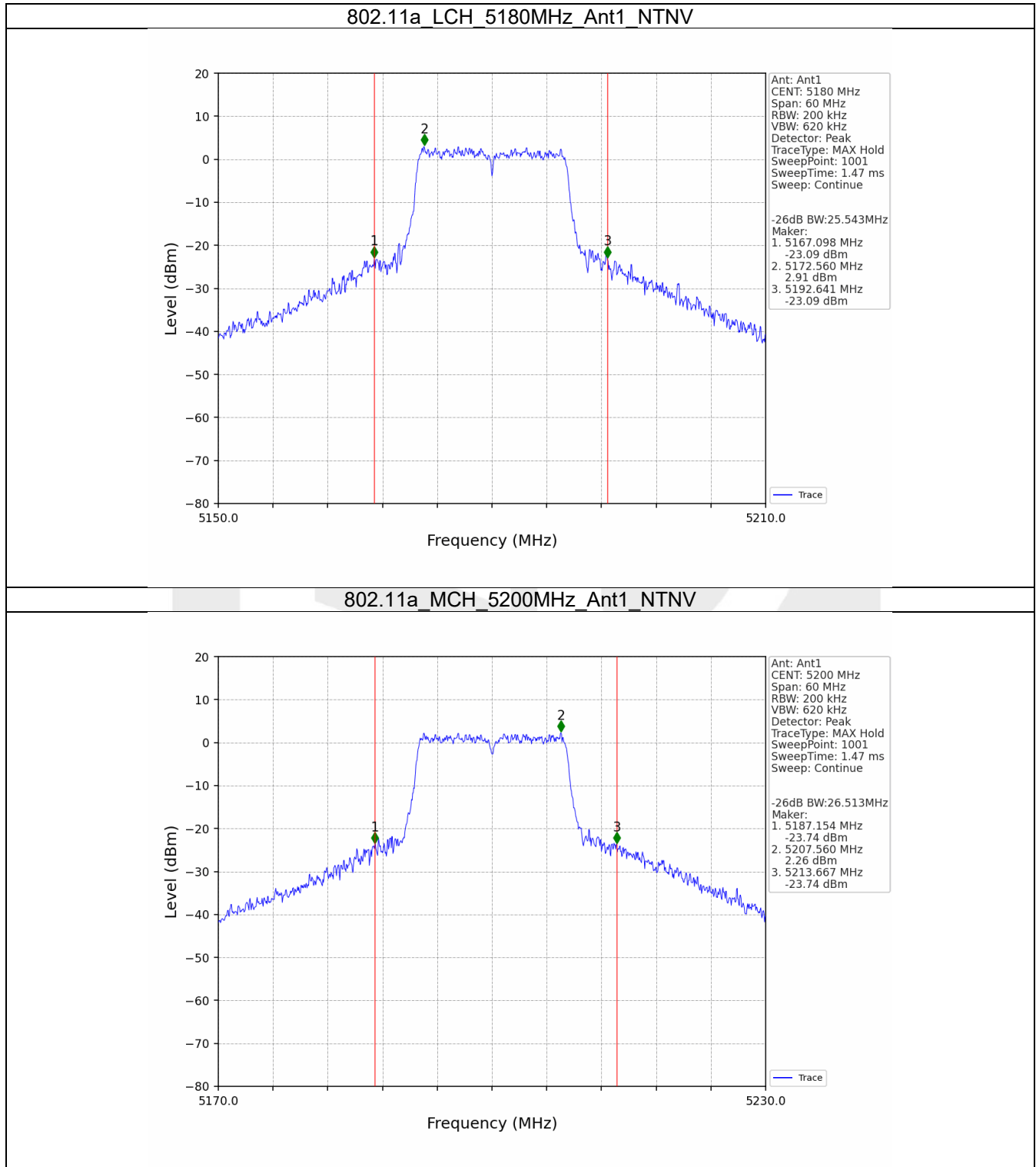


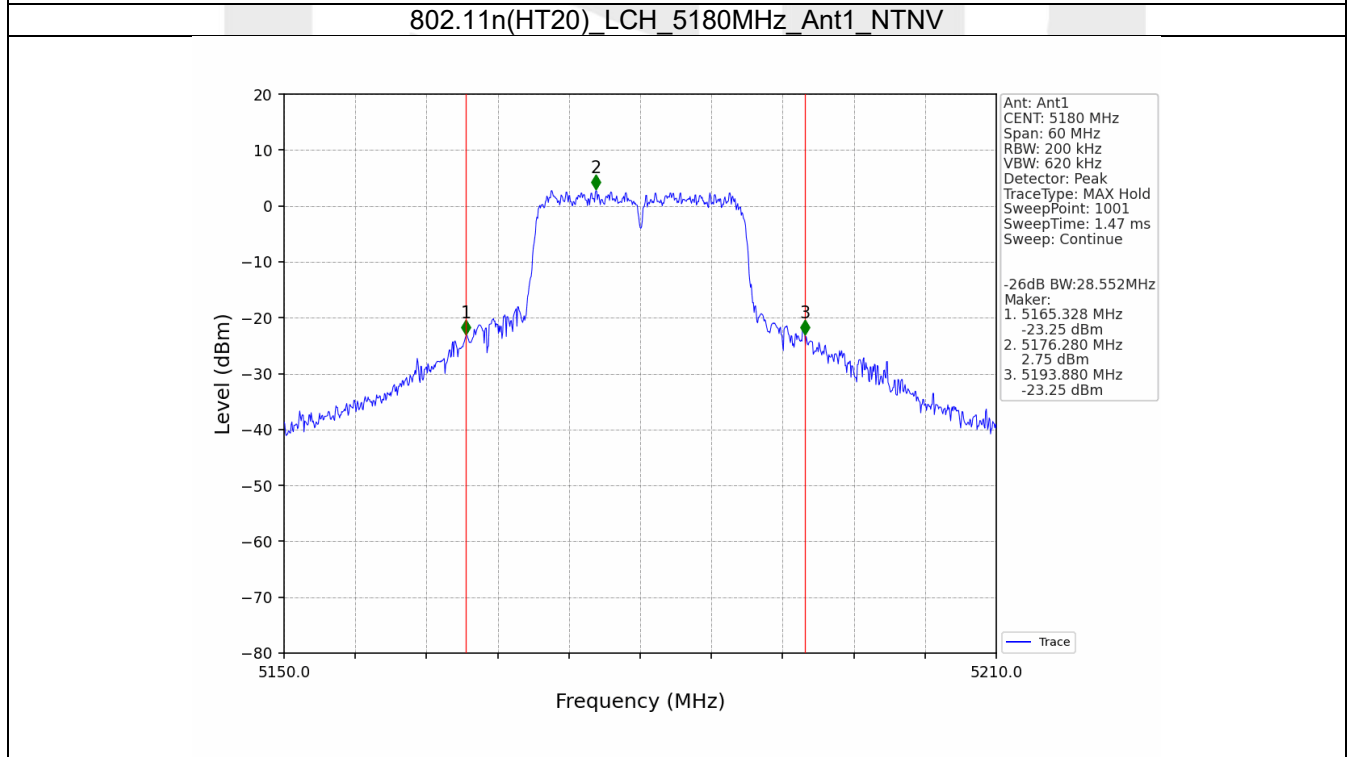
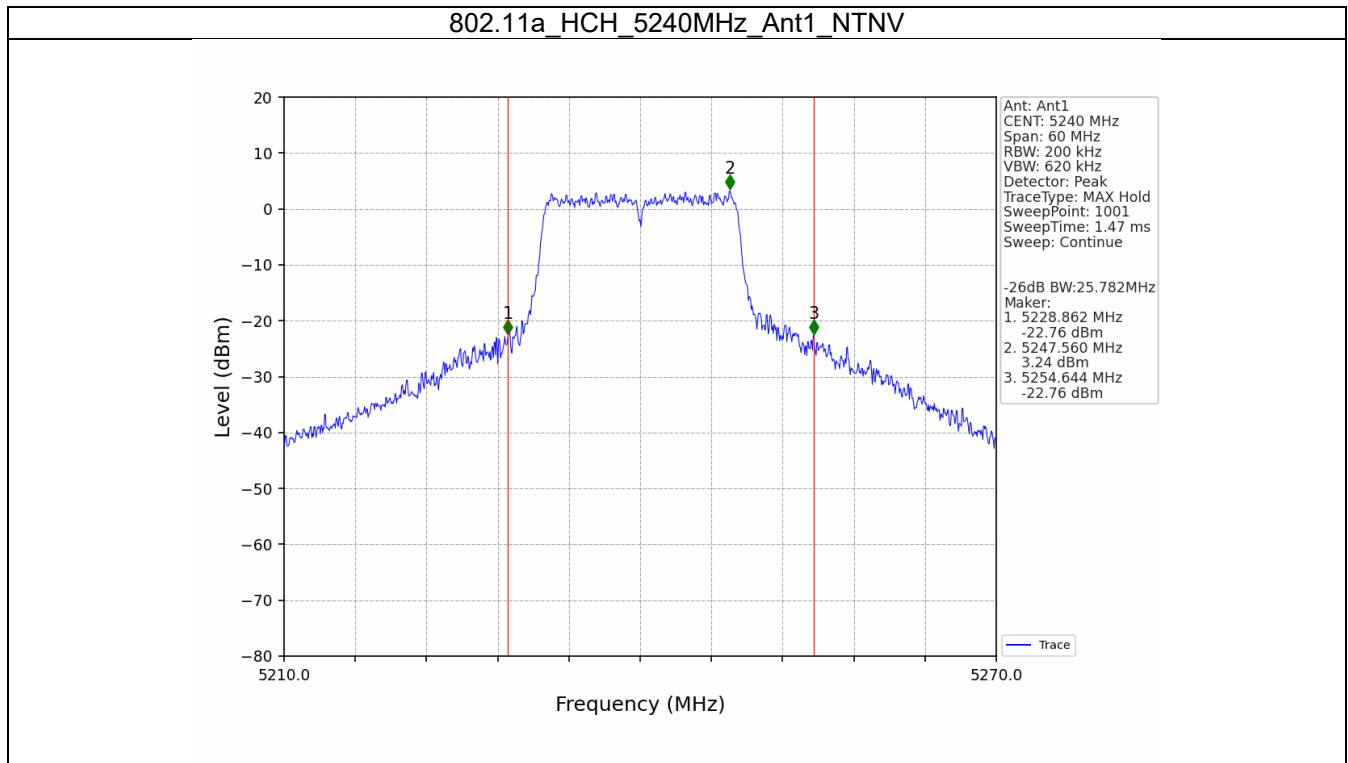


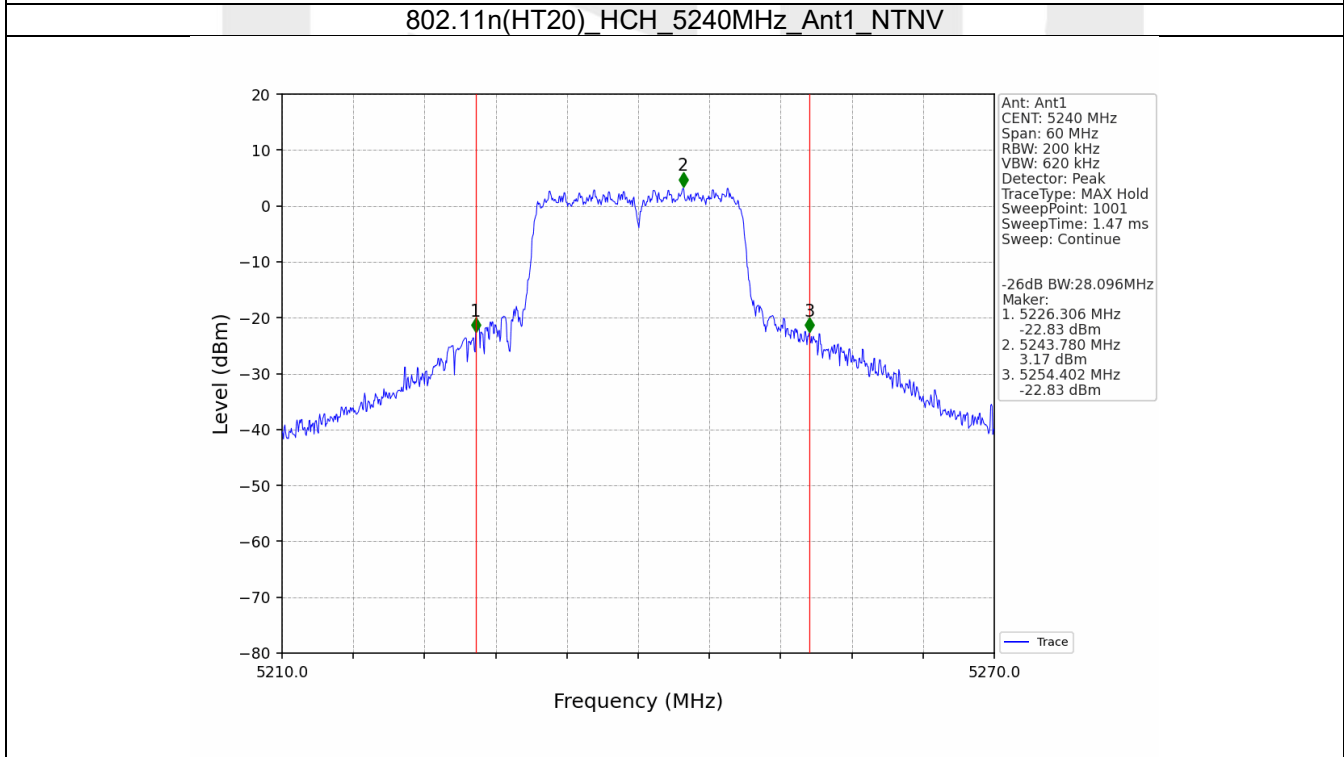
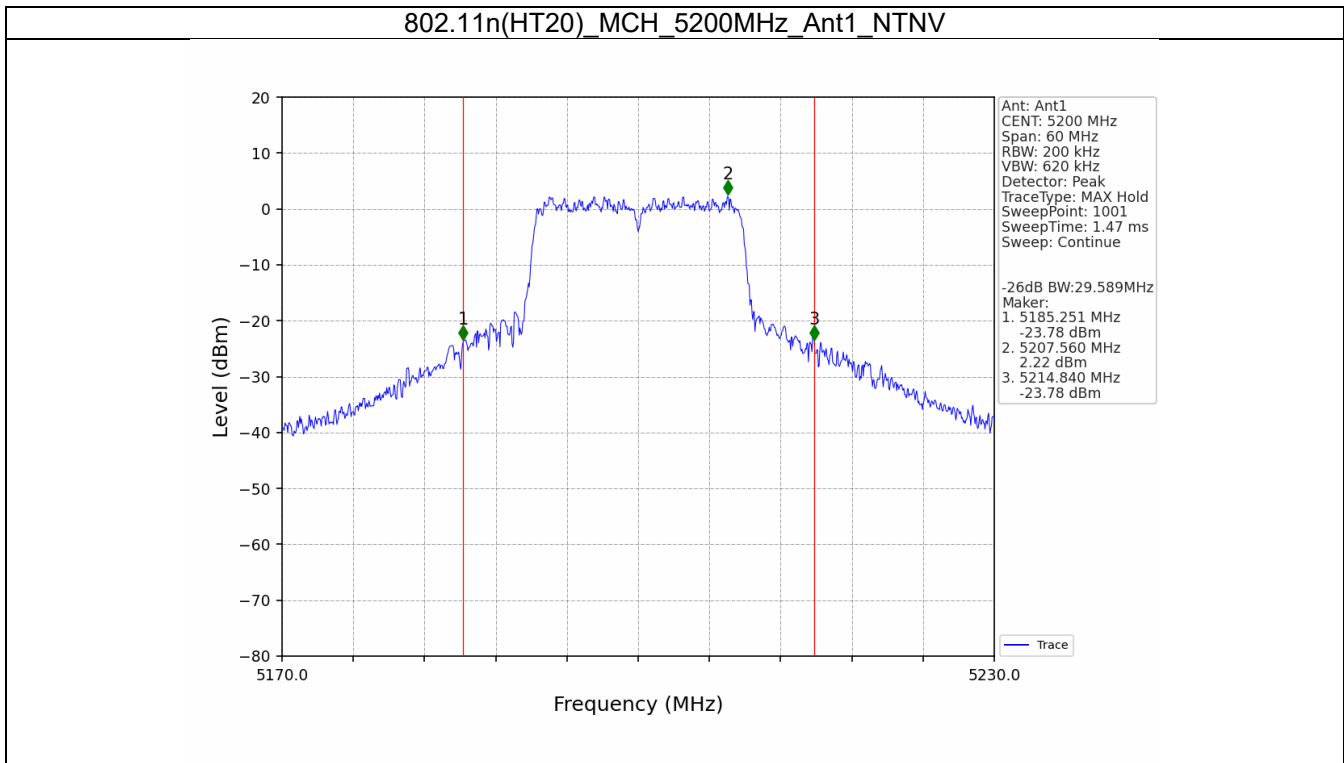


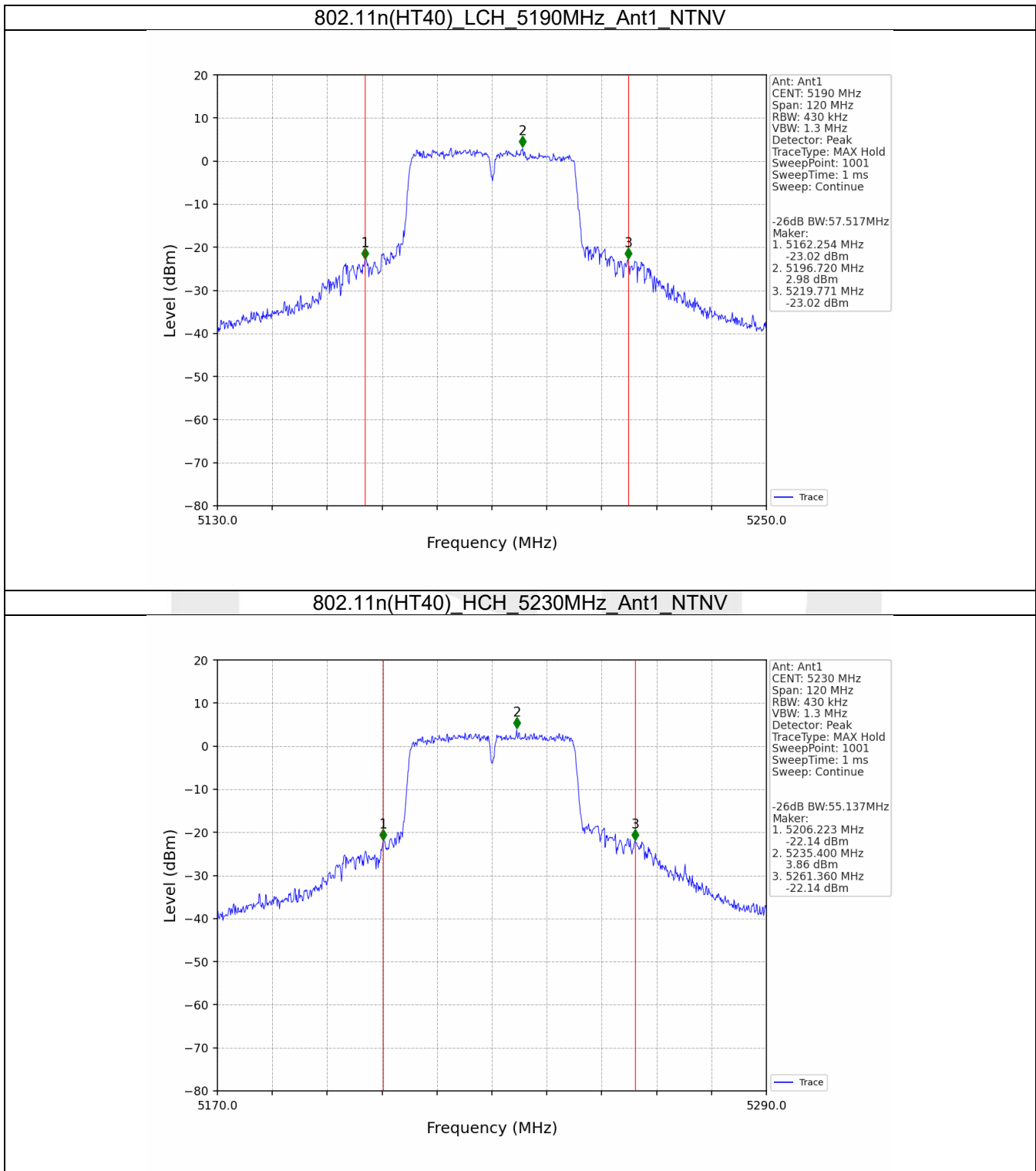


2.2.3 26dB BW









### 3. Maximum Conducted Output Power

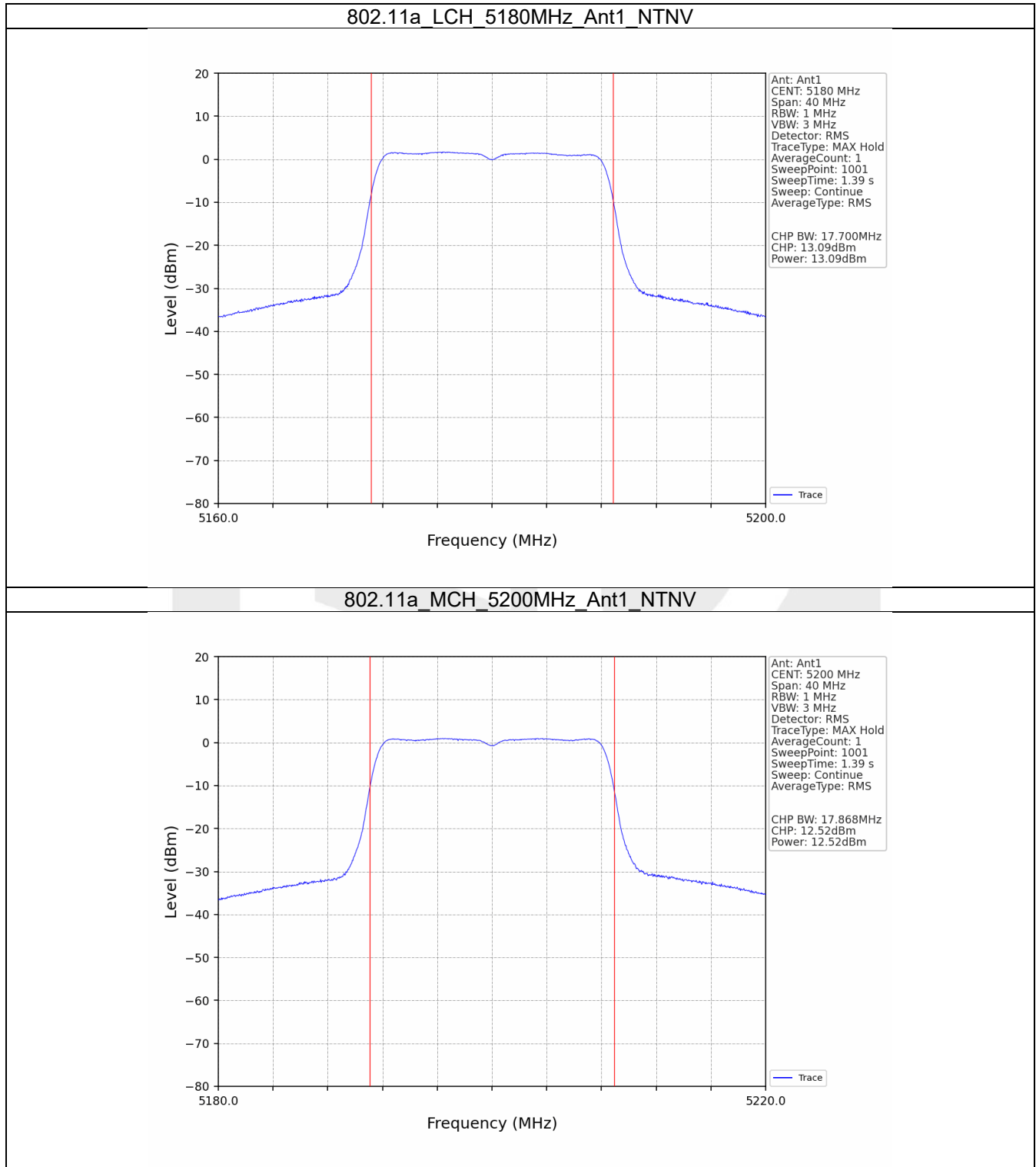
#### 3.1 Test Result

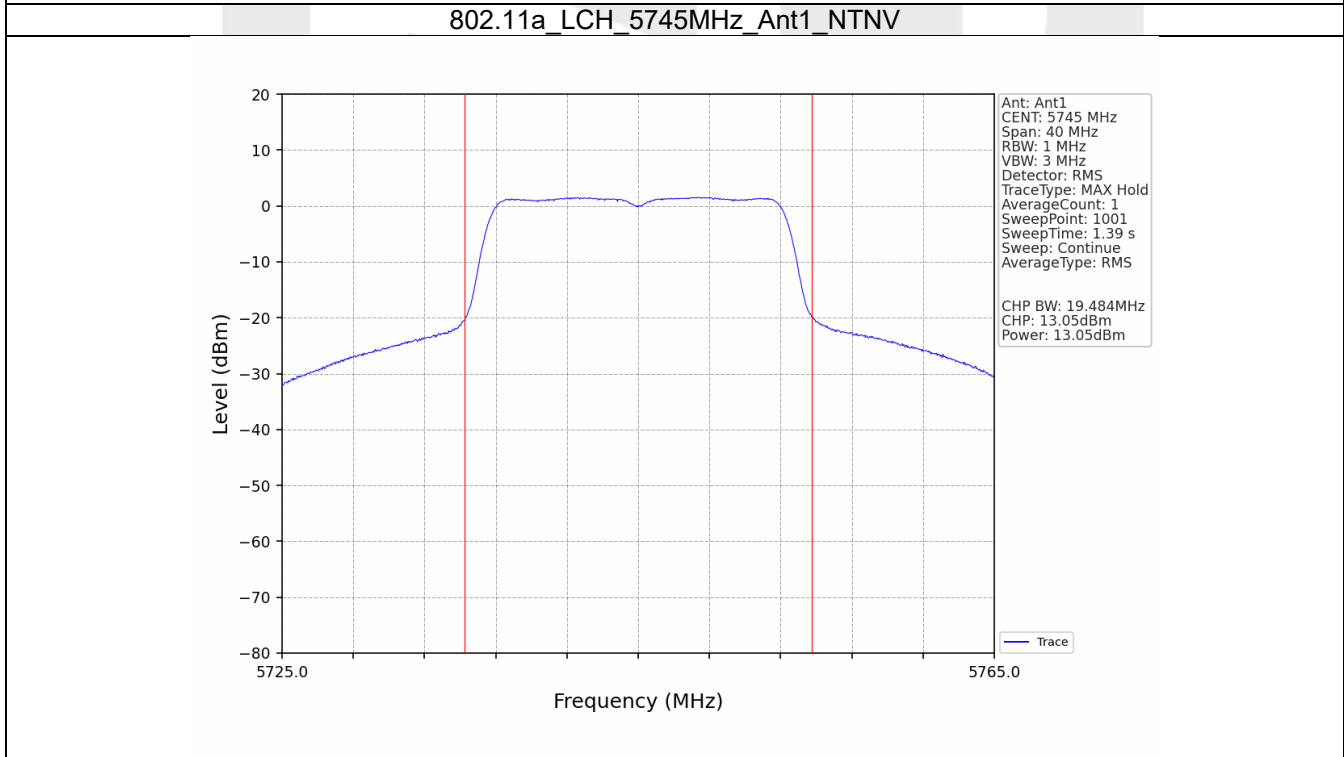
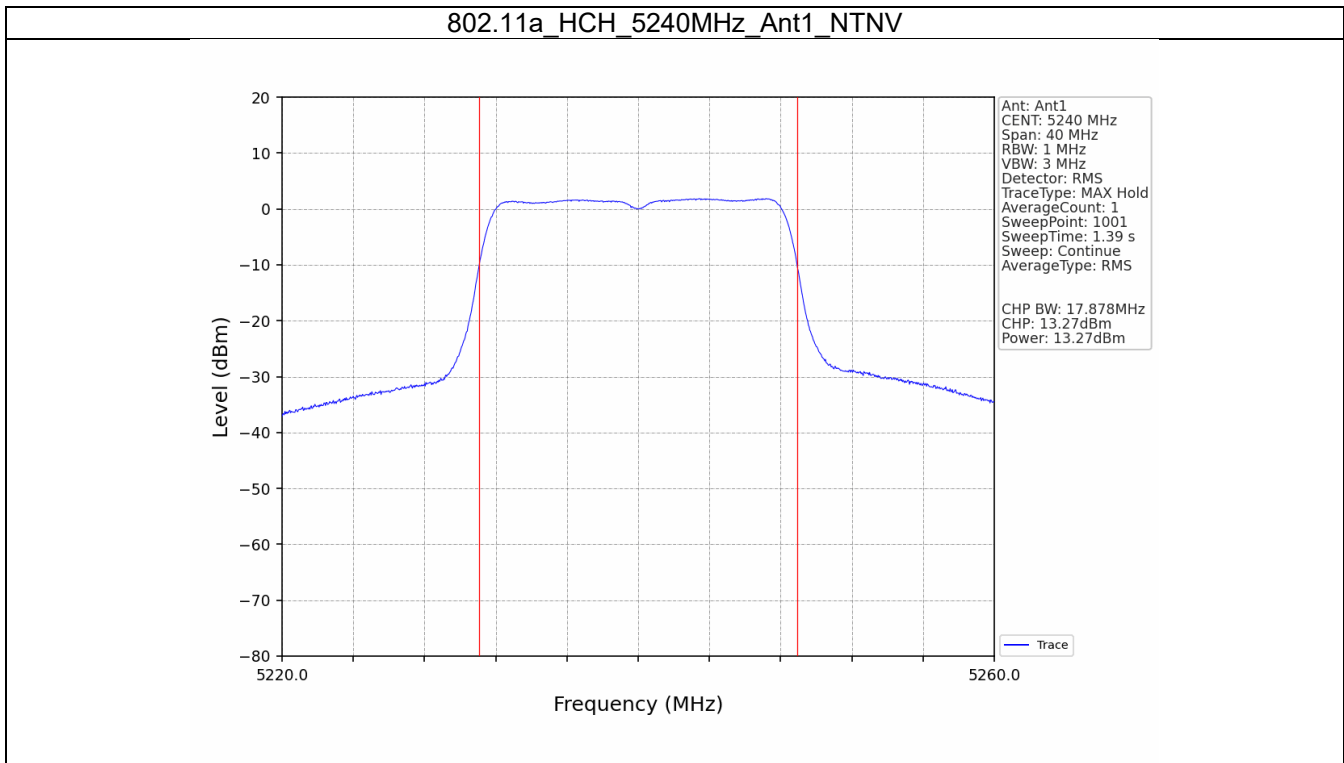
##### 3.1.1 Power

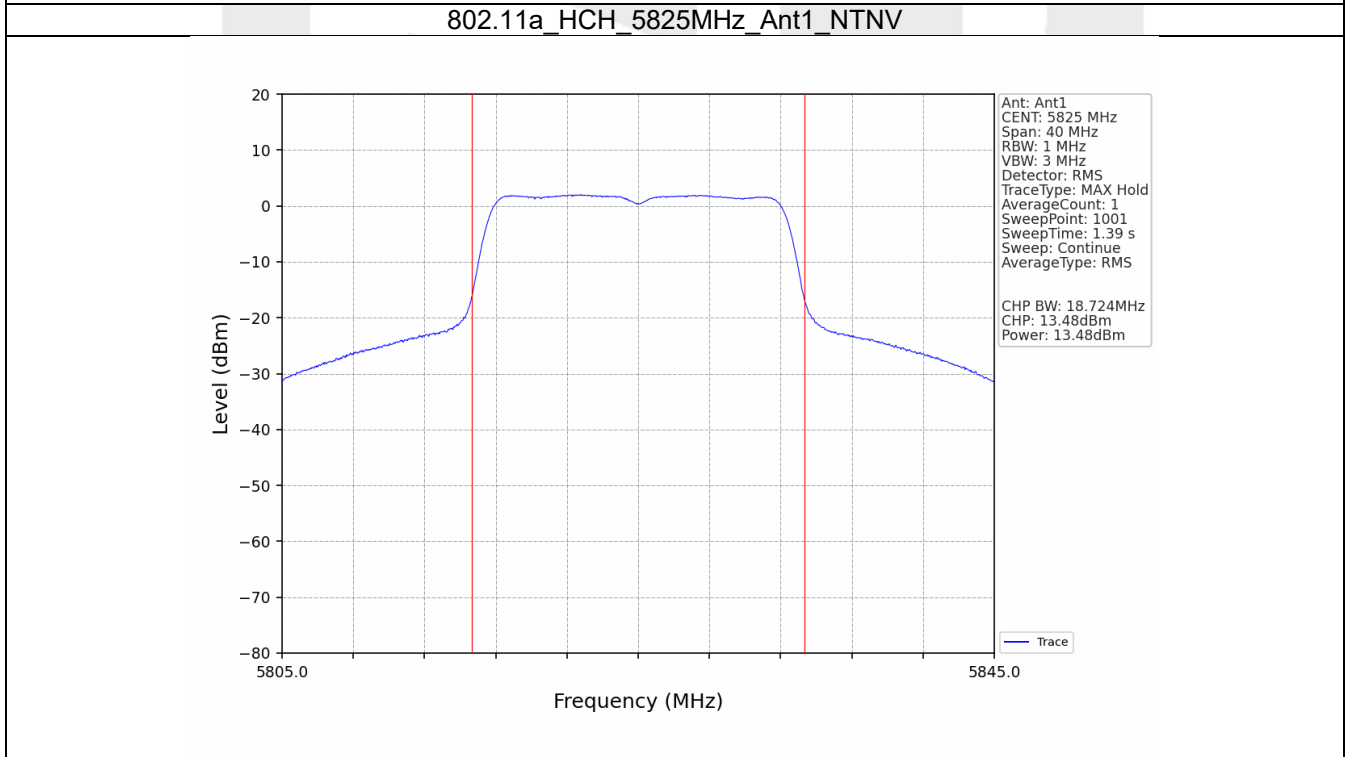
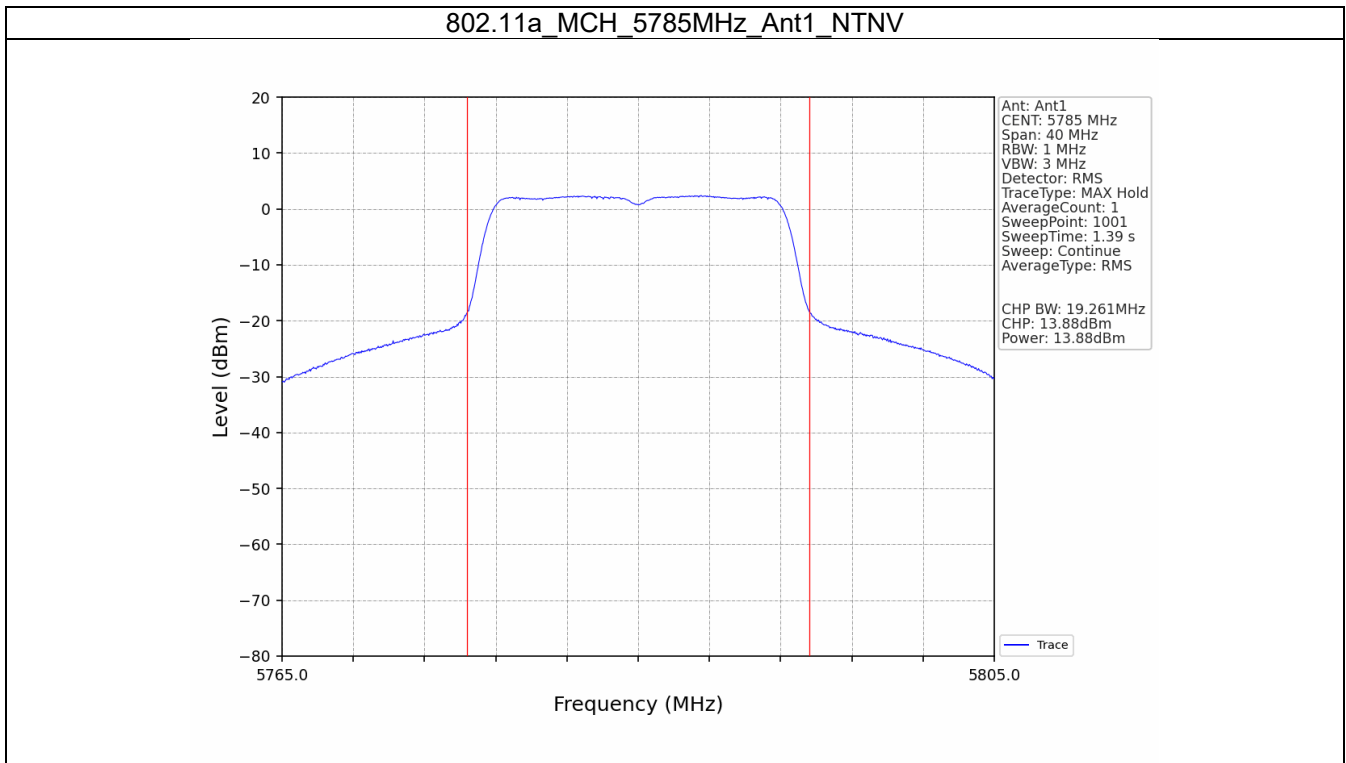
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.09	<=23.98	Pass
		5200	12.52	<=23.98	Pass
		5240	13.27	<=23.98	Pass
		5745	13.05	<=30	Pass
		5785	13.88	<=30	Pass
		5825	13.48	<=30	Pass
802.11n (HT20)	SISO	5180	13.08	<=23.98	Pass
		5200	12.54	<=23.98	Pass
		5240	13.33	<=23.98	Pass
		5745	13.05	<=30	Pass
		5785	13.84	<=30	Pass
		5825	13.68	<=30	Pass
802.11n (HT40)	SISO	5190	13.30	<=23.98	Pass
		5230	13.55	<=23.98	Pass
		5755	13.56	<=30	Pass
		5795	14.21	<=30	Pass

### 3.2 Test Graph

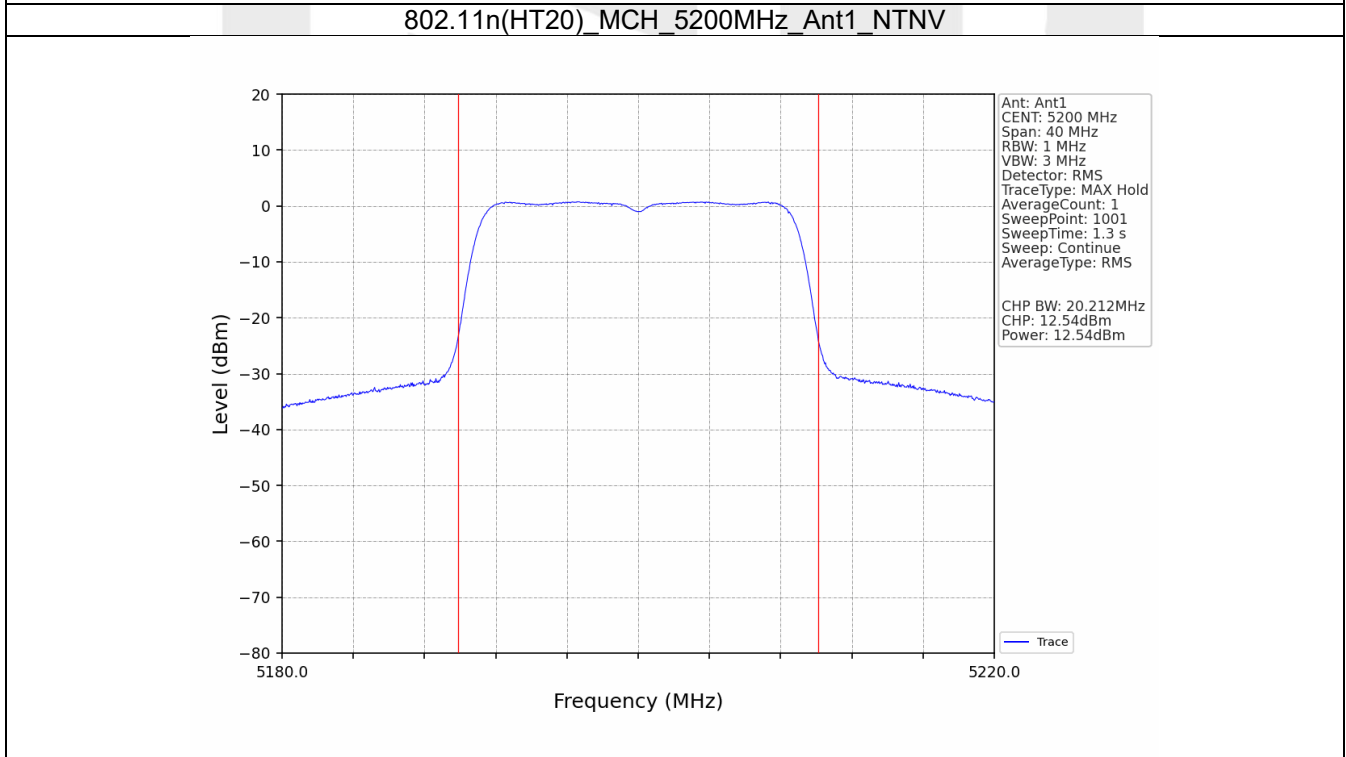
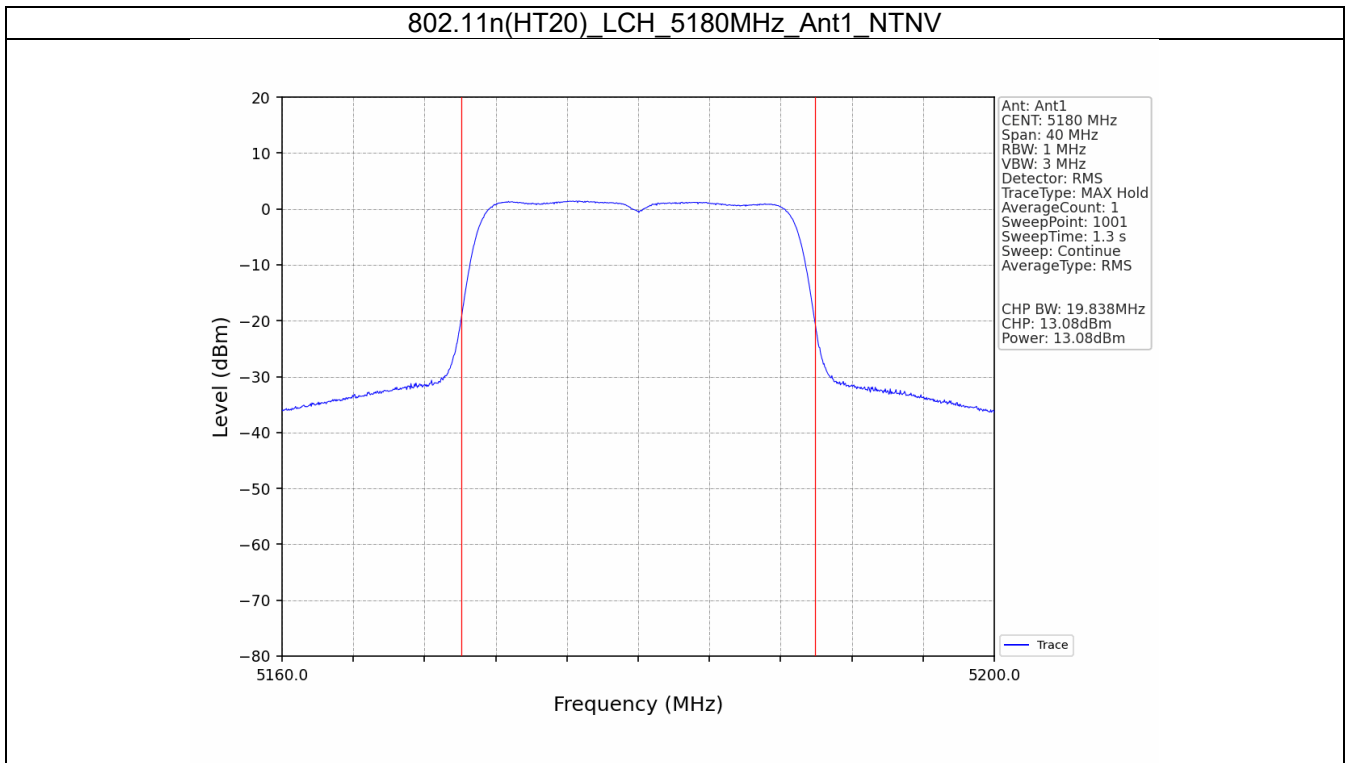
#### 3.2.1 Power

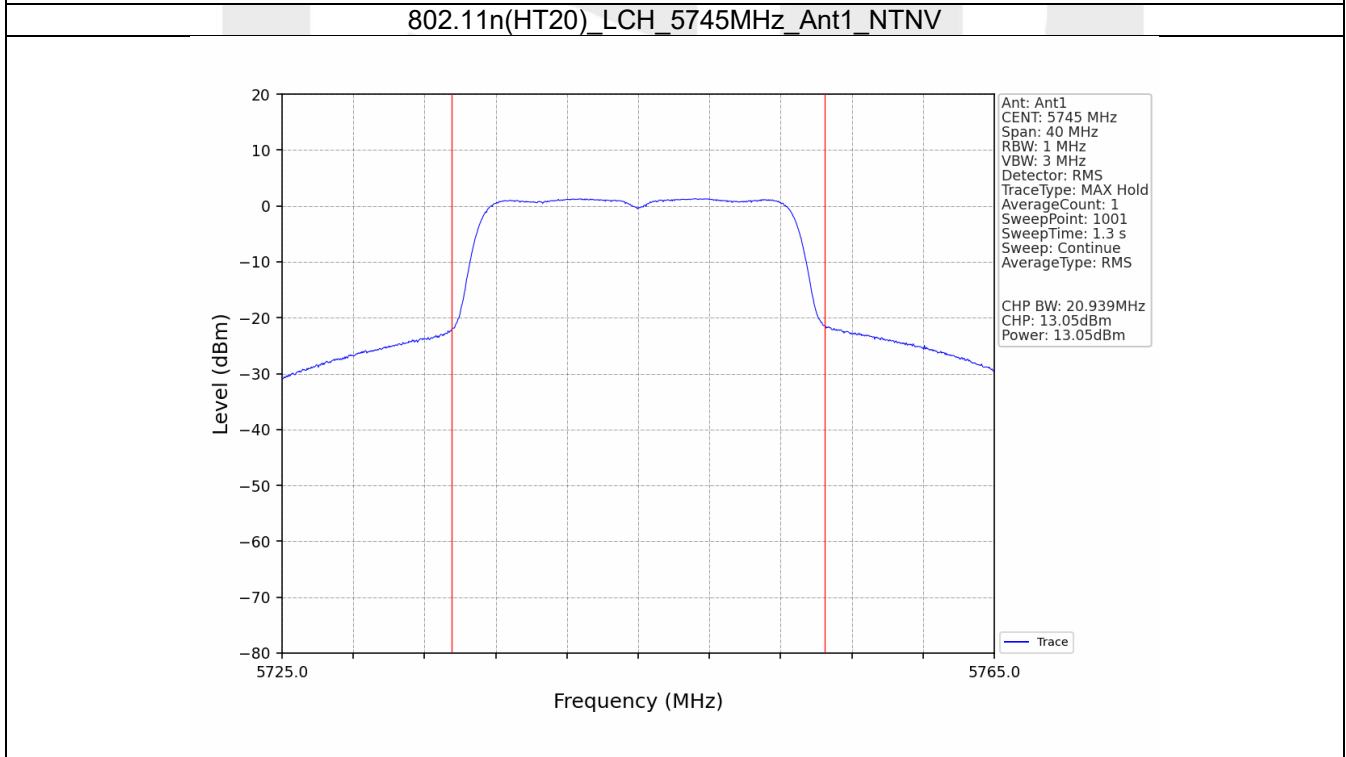
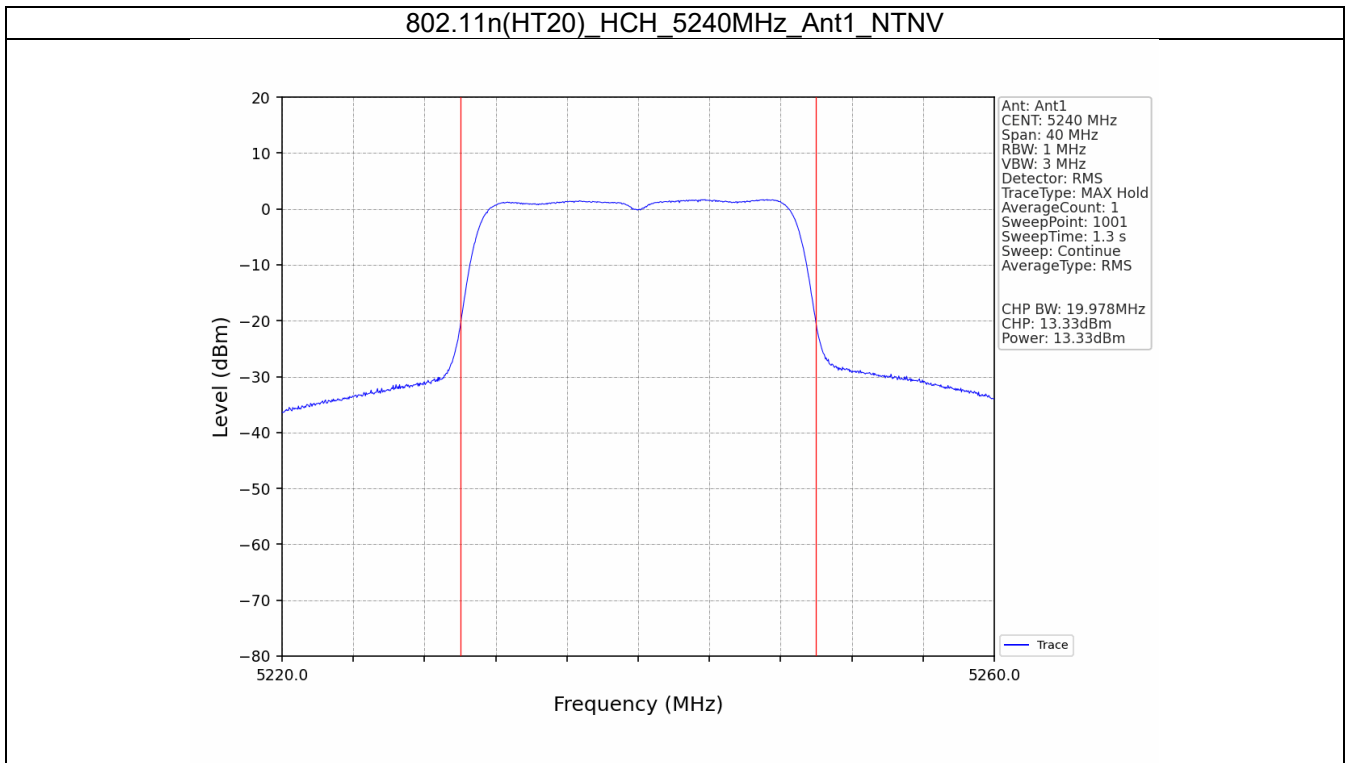




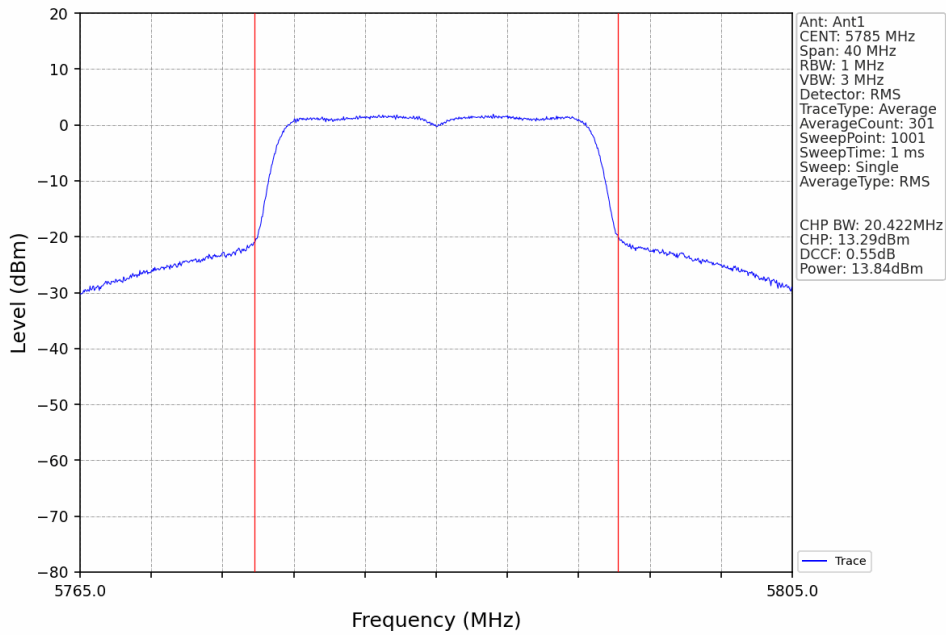




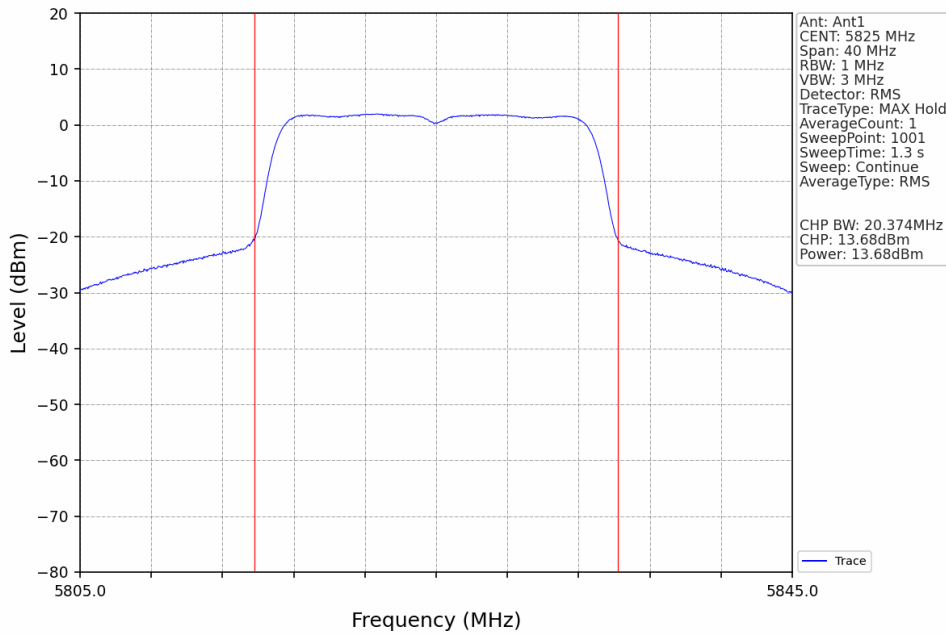


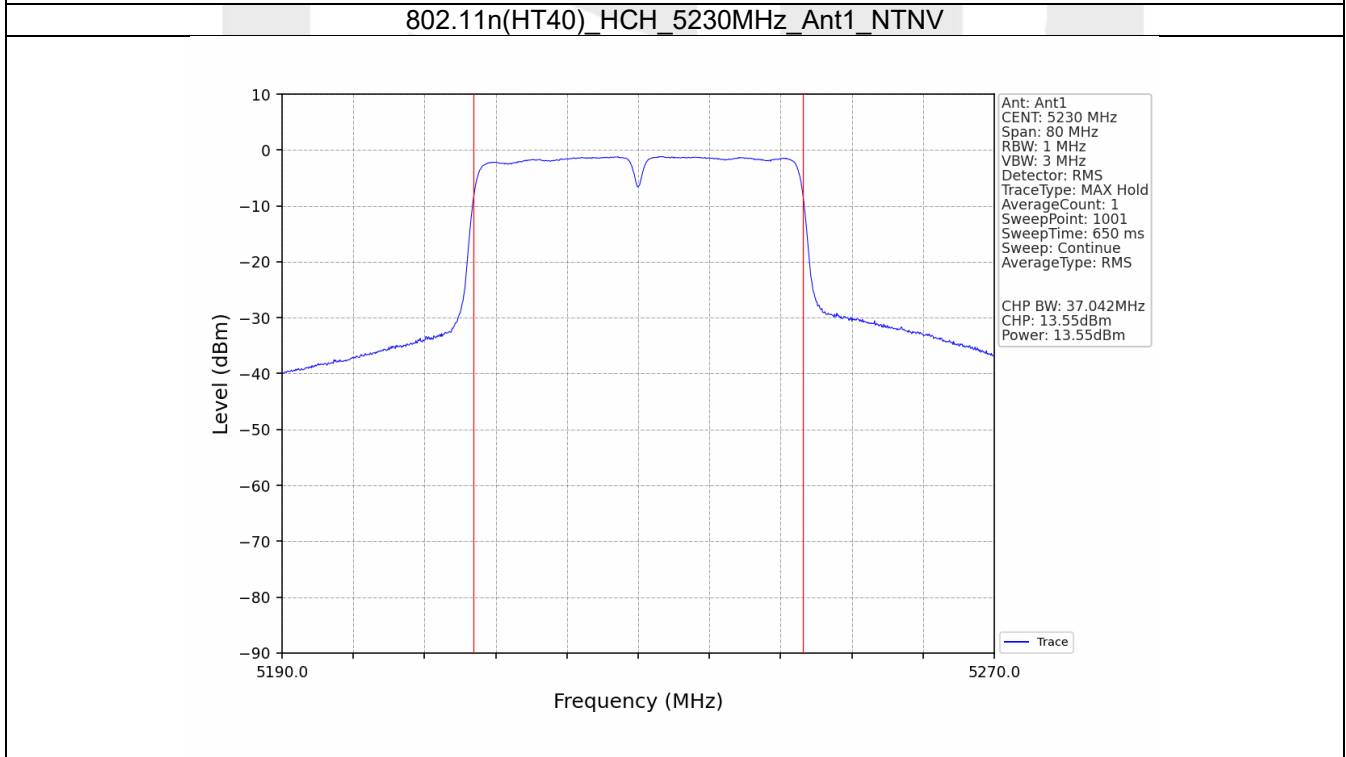
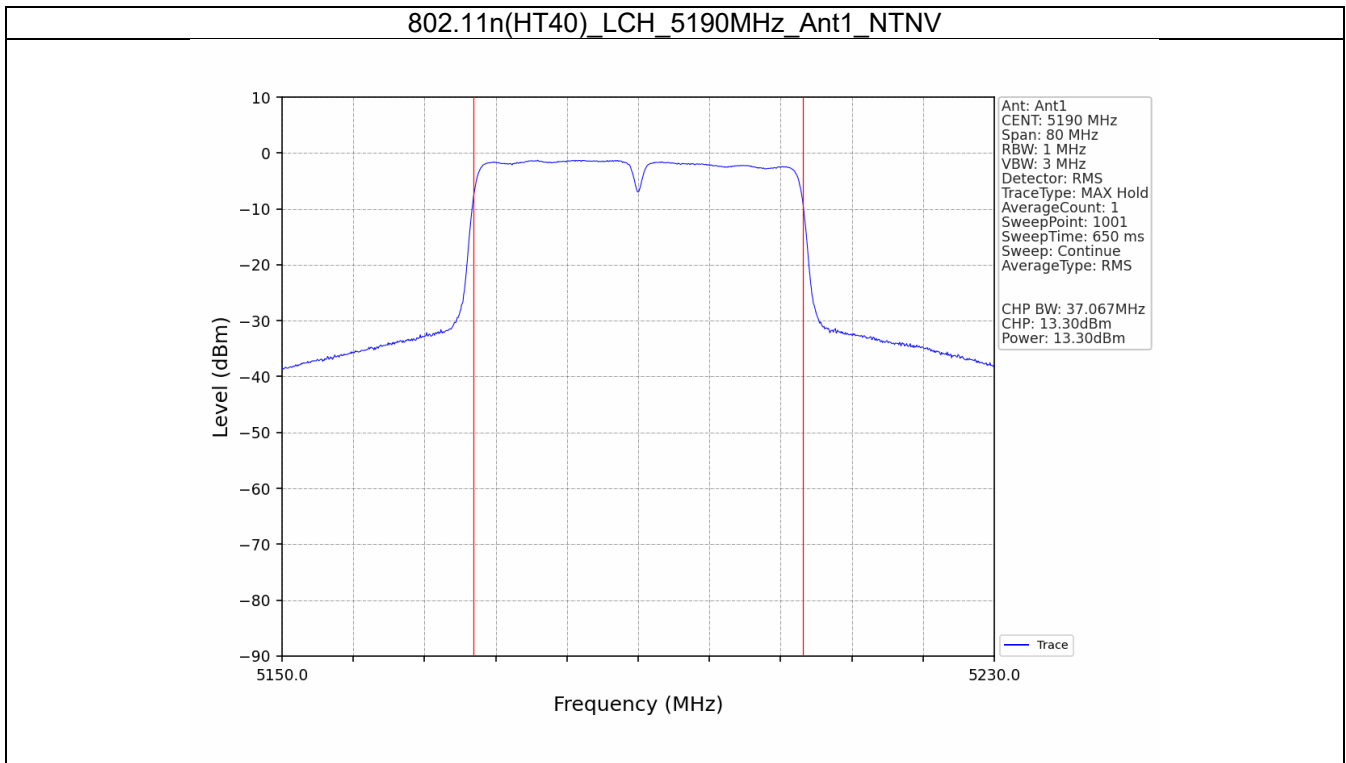


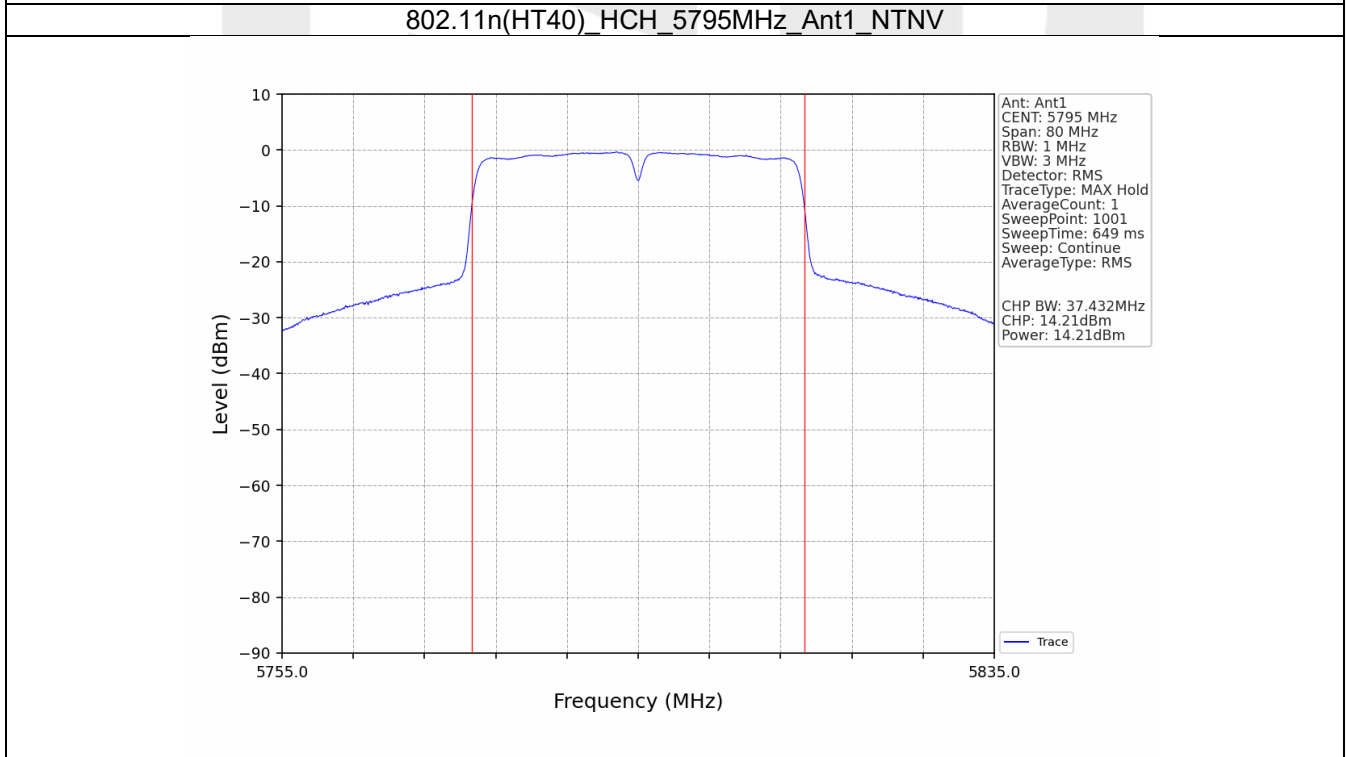
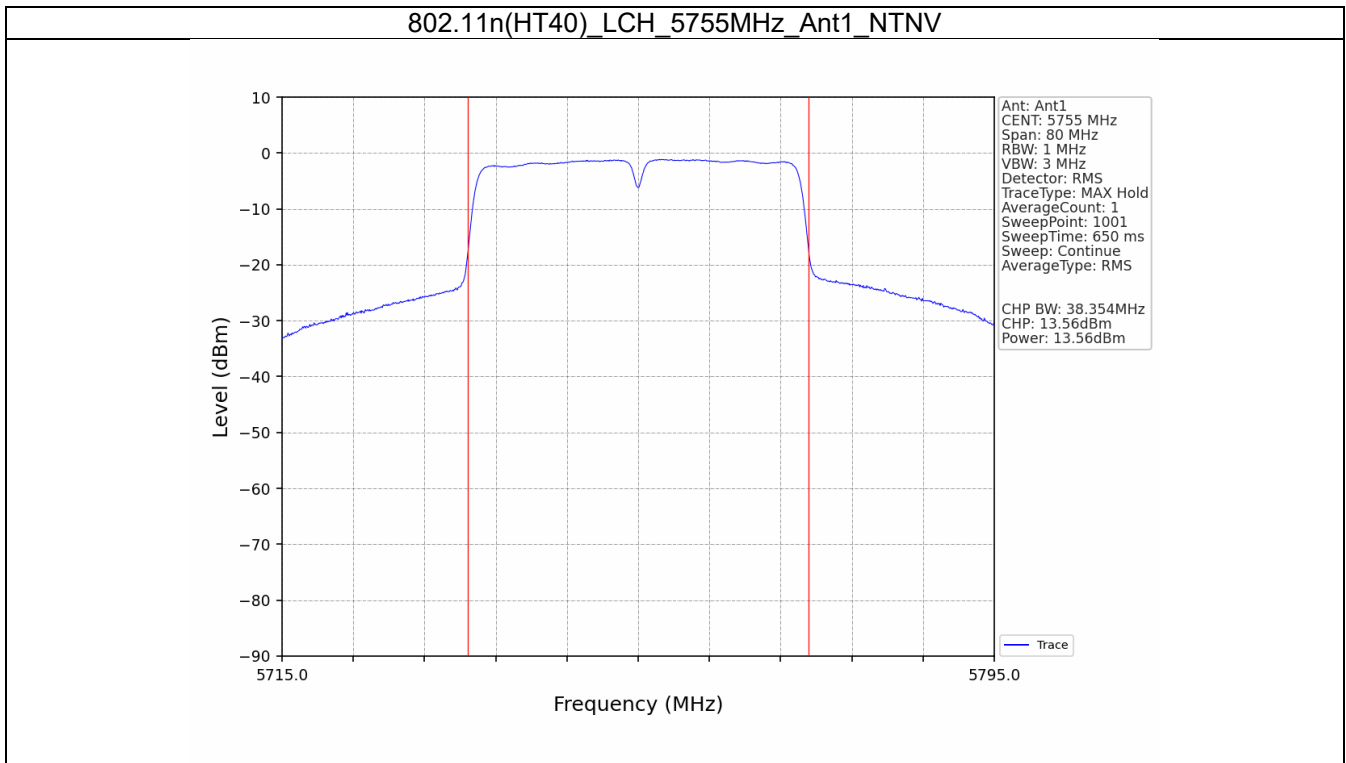
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV







#### 4. Maximum Power Spectral Density

##### 4.1 Test Result

##### 4.1.1 PSD

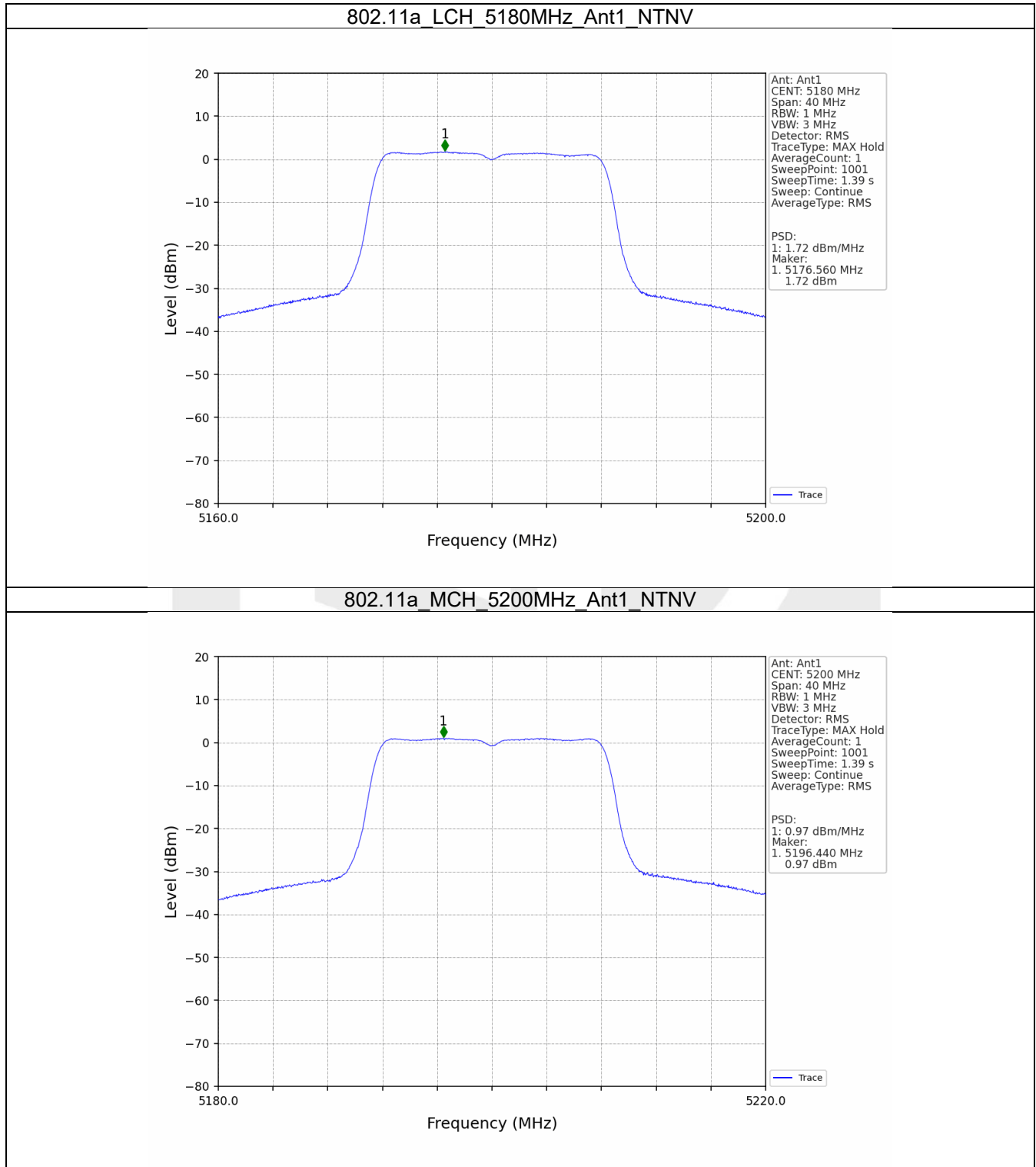
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	1.72	<=11	Pass
		5200	0.97	<=11	Pass
		5240	1.86	<=11	Pass
802.11n (HT20)	SISO	5180	1.39	<=11	Pass
		5200	0.73	<=11	Pass
		5240	1.68	<=11	Pass
802.11n (HT40)	SISO	5190	-1.32	<=11	Pass
		5230	-1.17	<=11	Pass

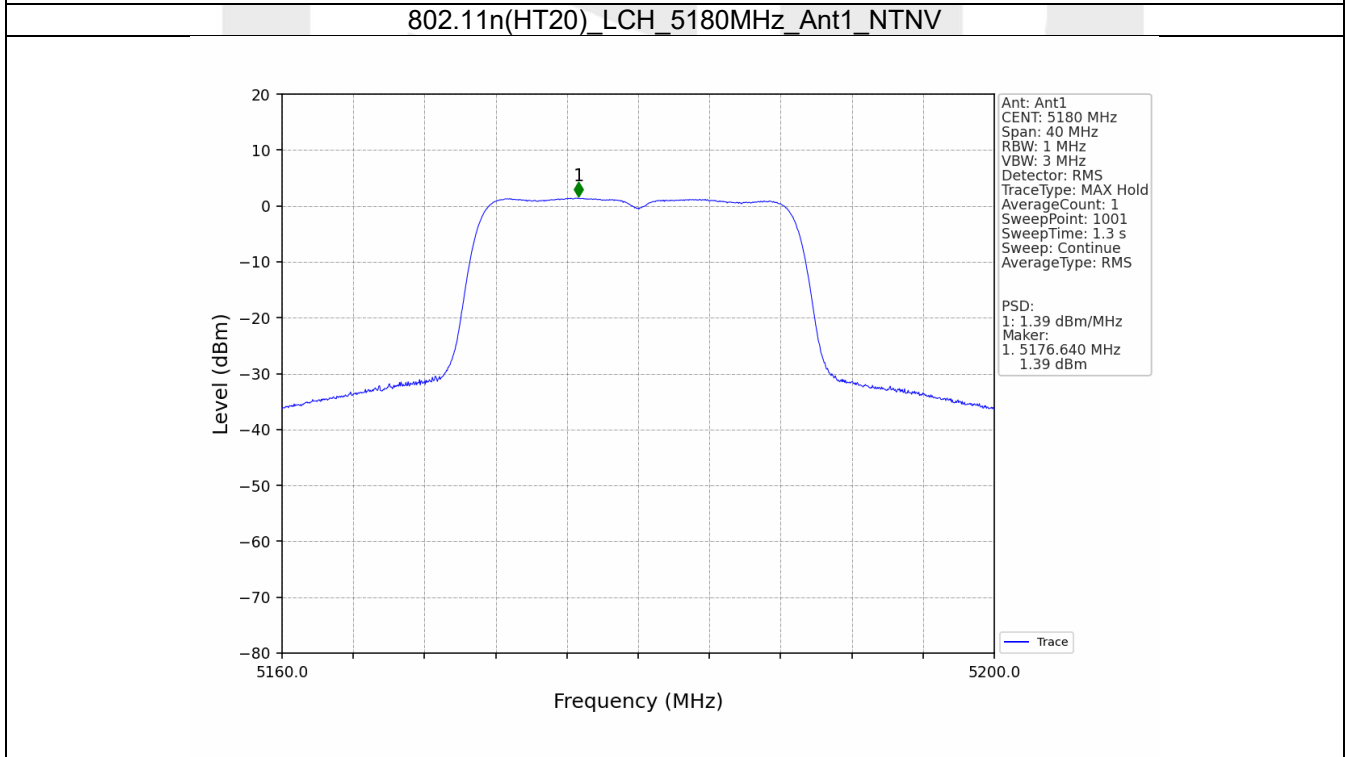
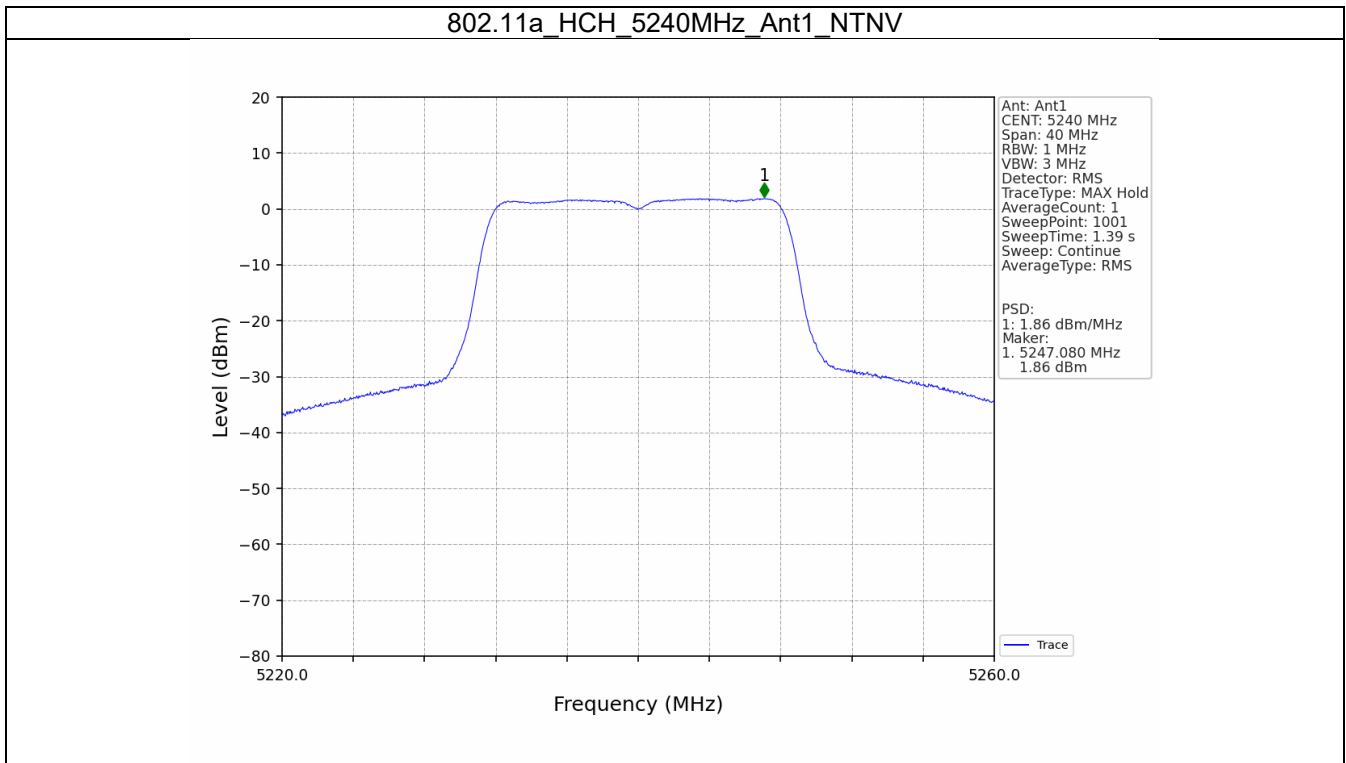
##### 4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)			Verdict
			ANT1	Duty Cycle Correction Factor (dB)	Limit	
802.11a	SISO	5745	-1.46	0.75	<=30	Pass
		5785	-0.62	0.65	<=30	Pass
		5825	-0.84	0.70	<=30	Pass
802.11n (HT20)	SISO	5745	-1.67	0.61	<=30	Pass
		5785	-0.57	0.55	<=30	Pass
		5825	-0.96	0.72	<=30	Pass
802.11n (HT40)	SISO	5755	-3.94	1.46	<=30	Pass
		5795	-3.13	1.57	<=30	Pass

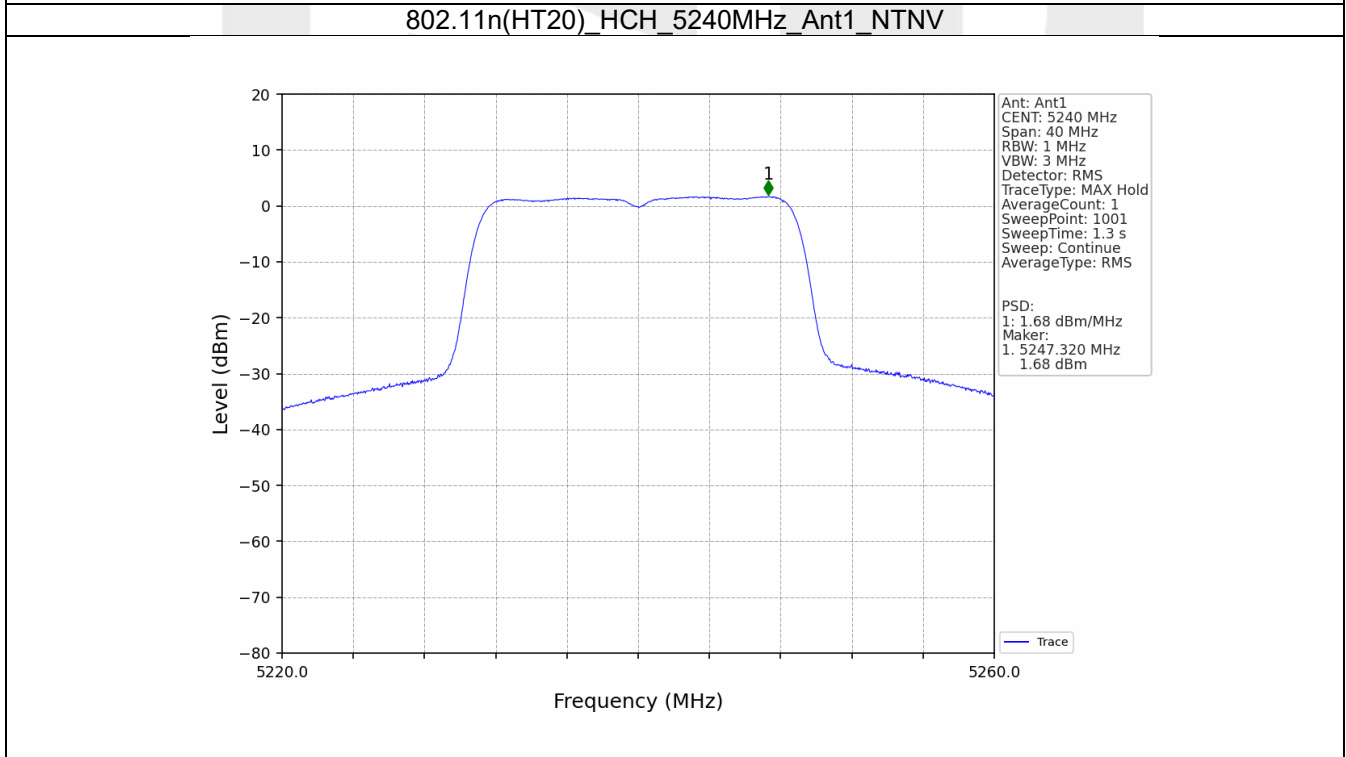
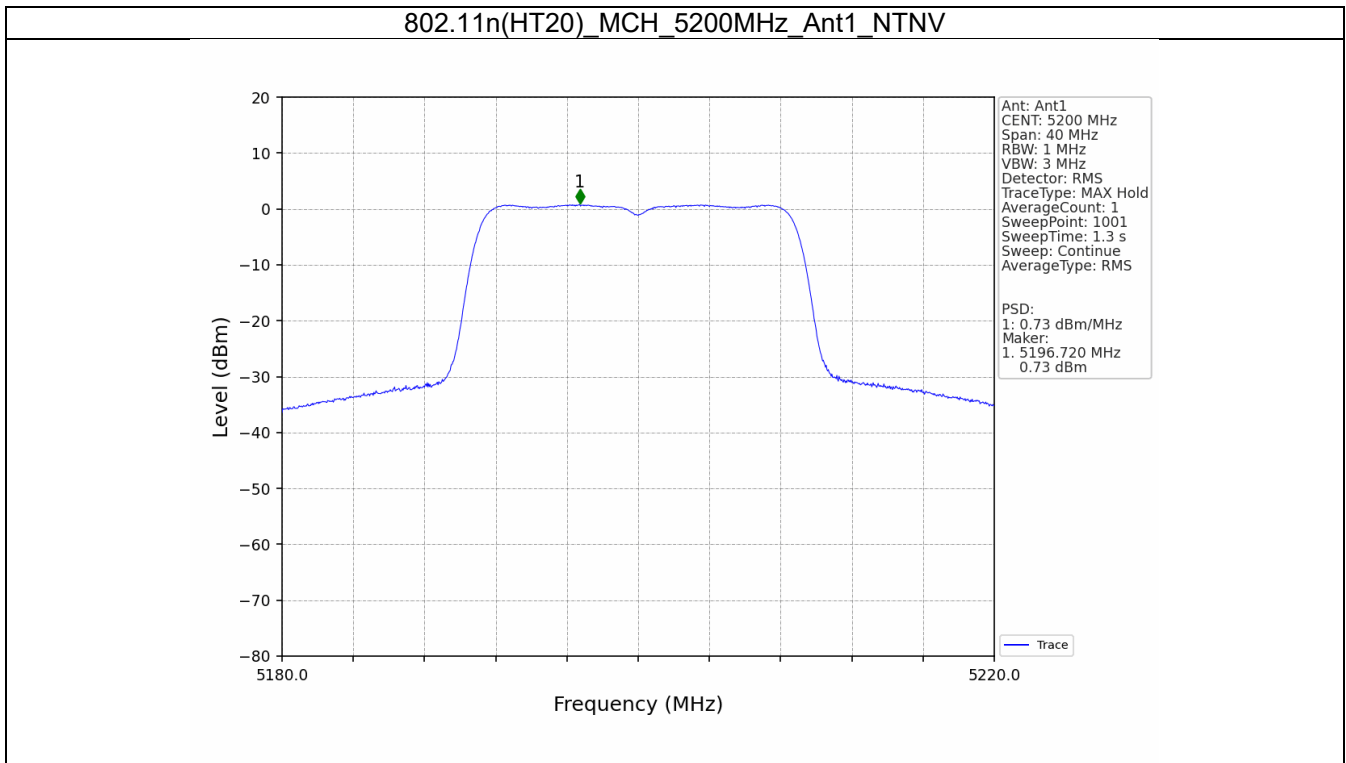
## 4.2 Test Graph

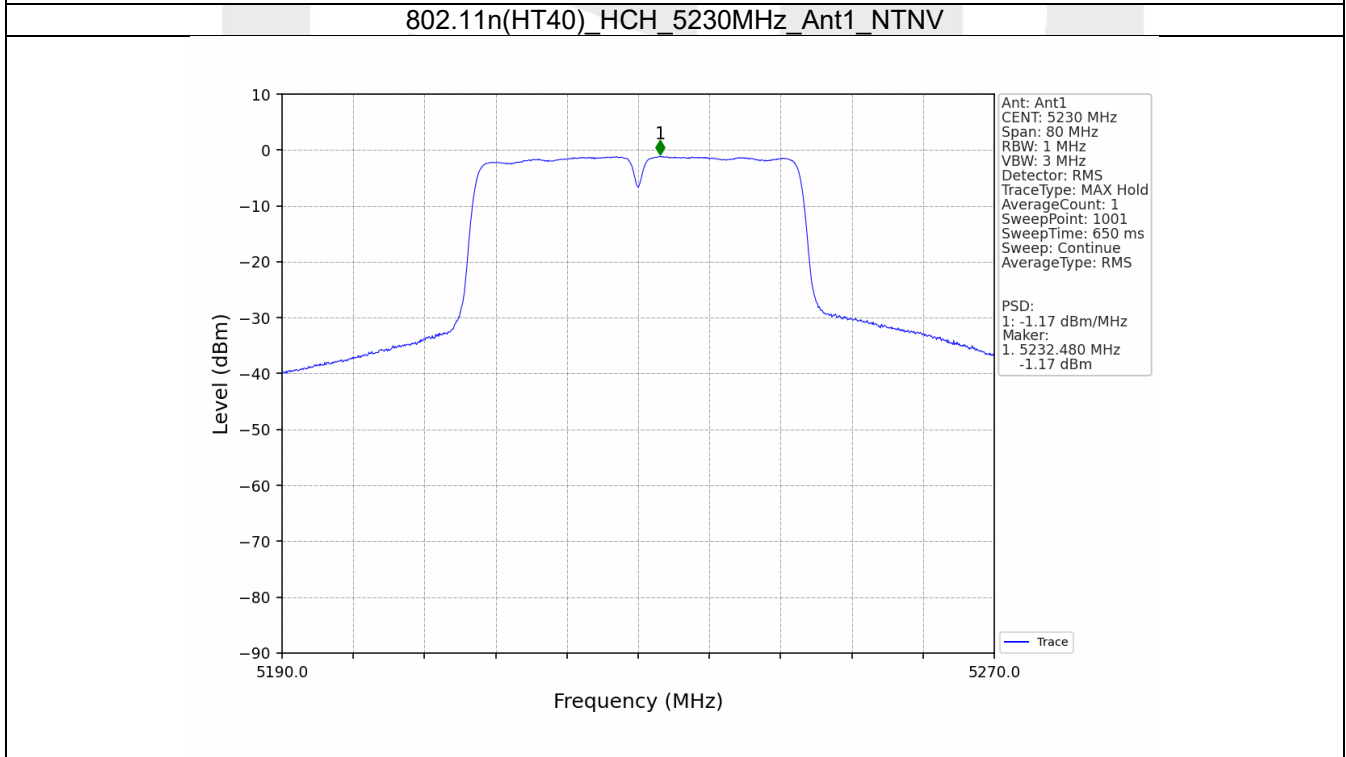
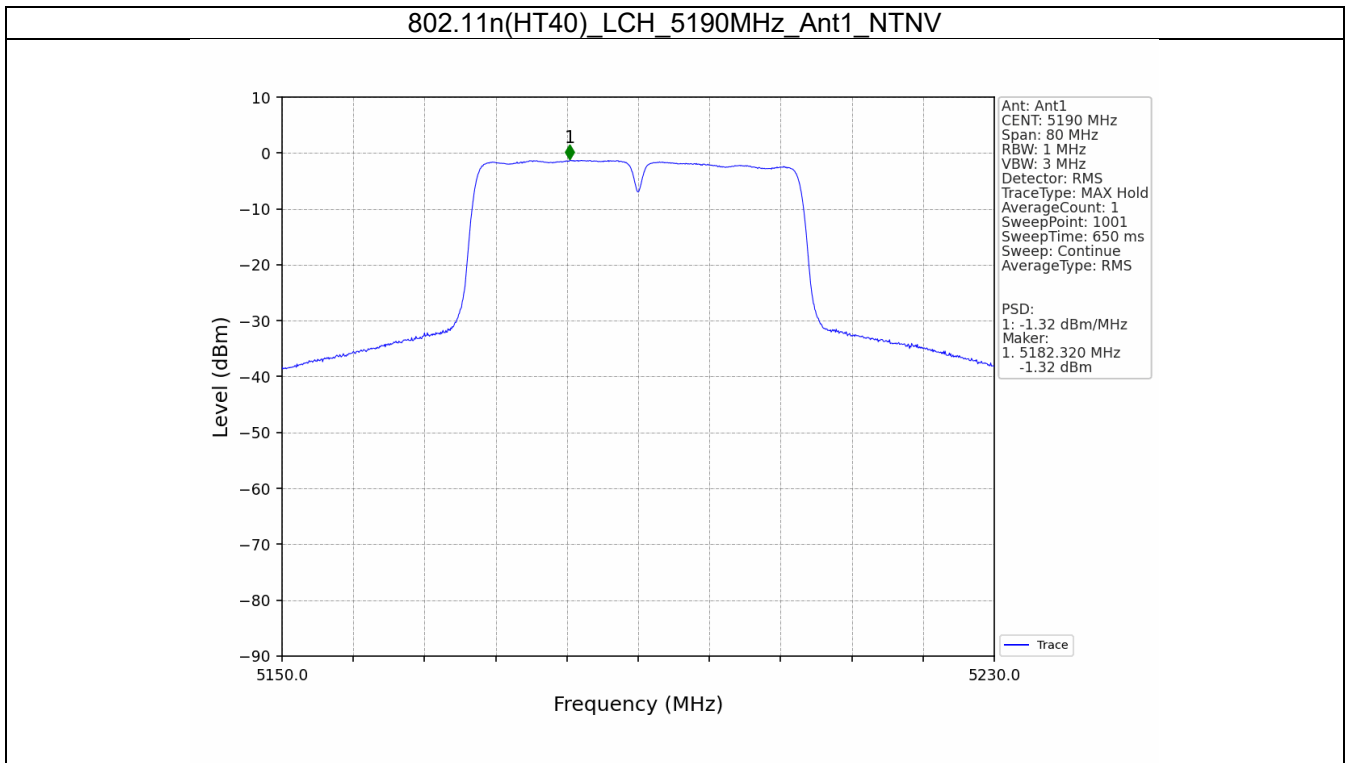
### 4.2.1 PSD



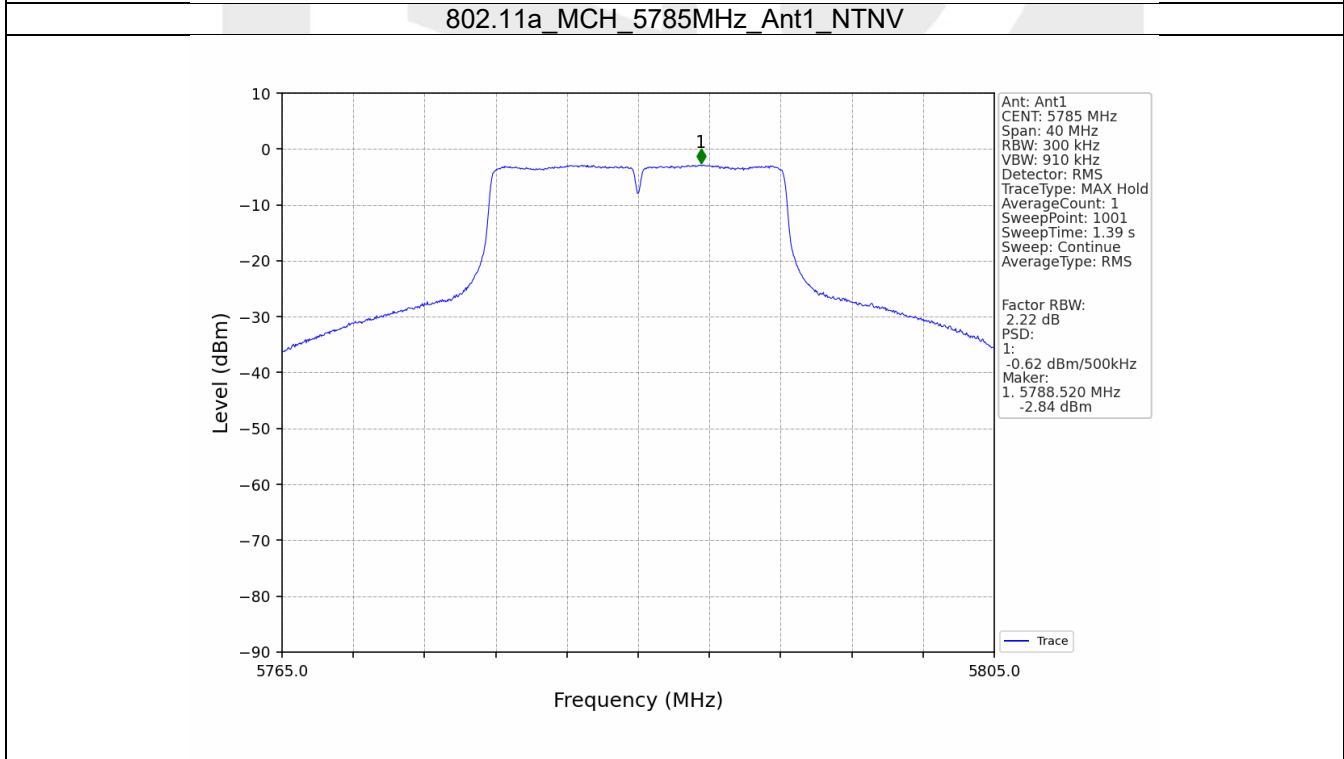
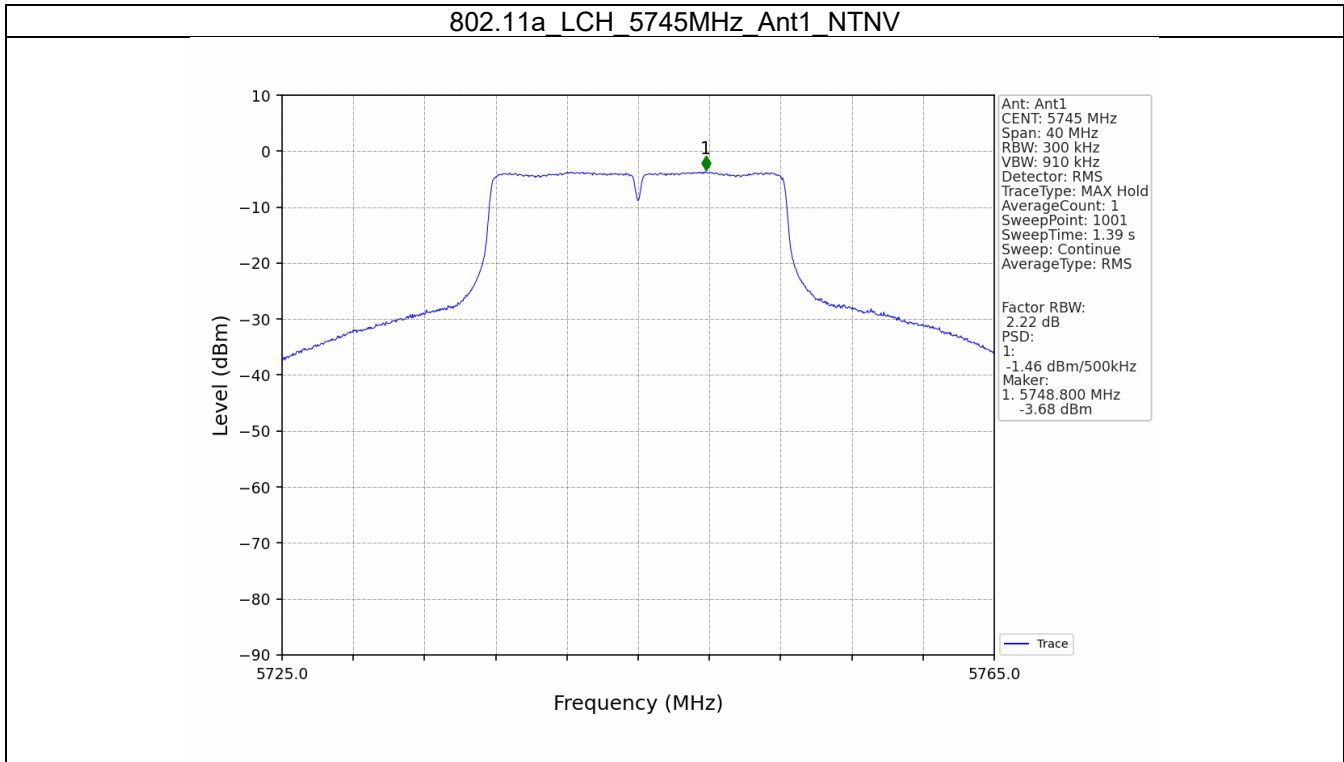


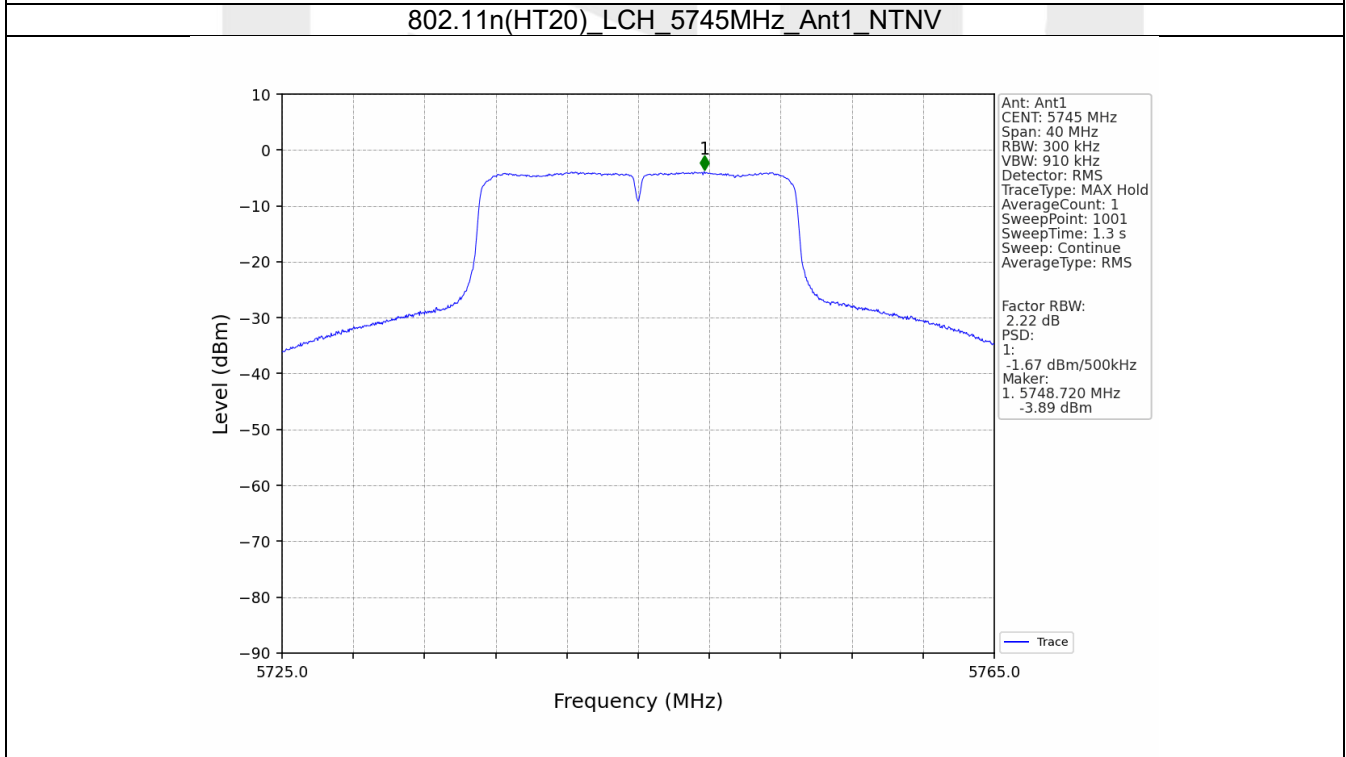
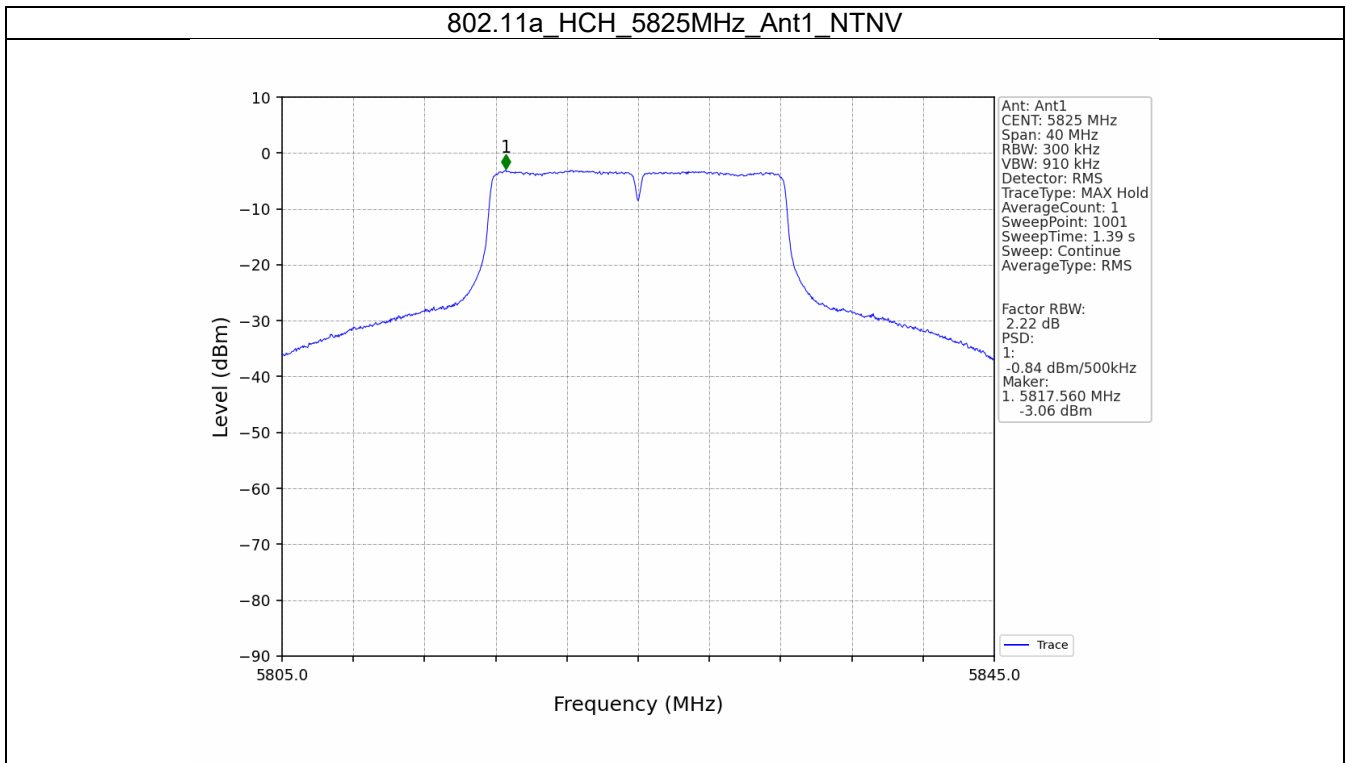




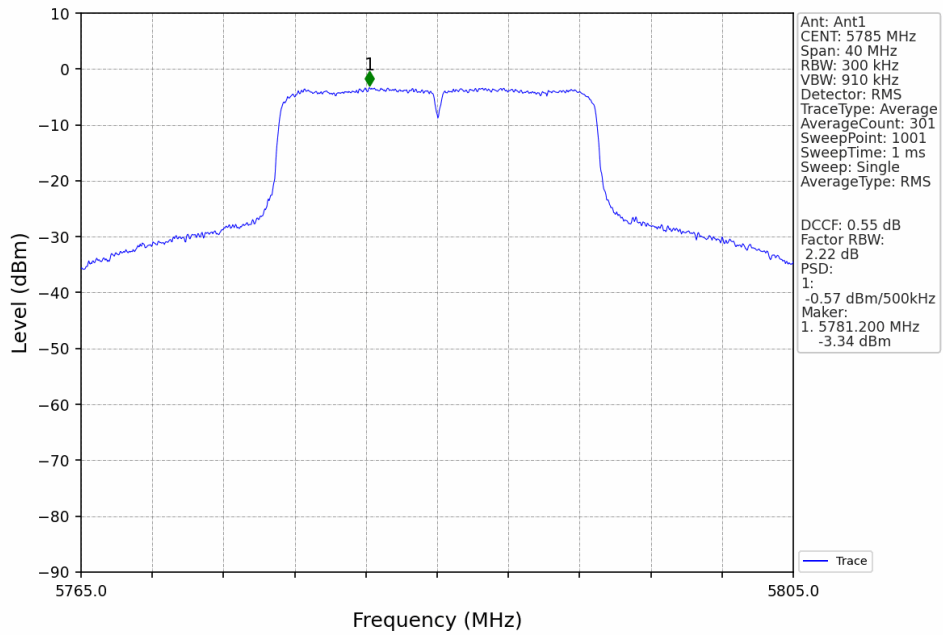


4.2.2 PSD-Band3

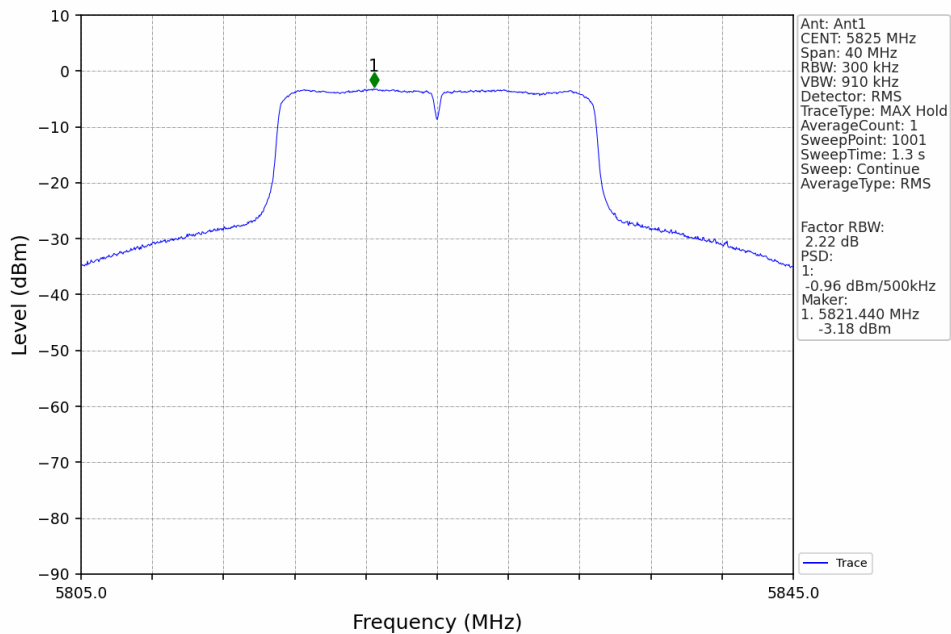


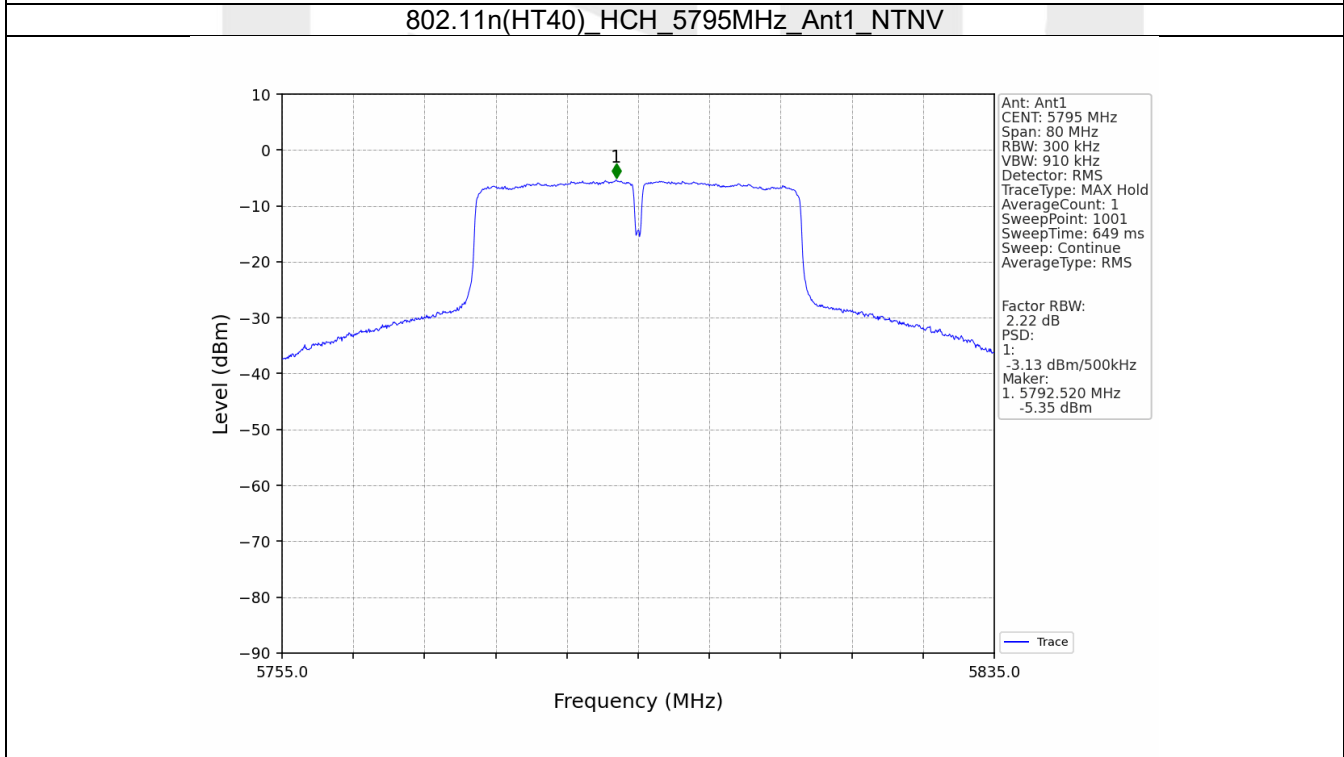
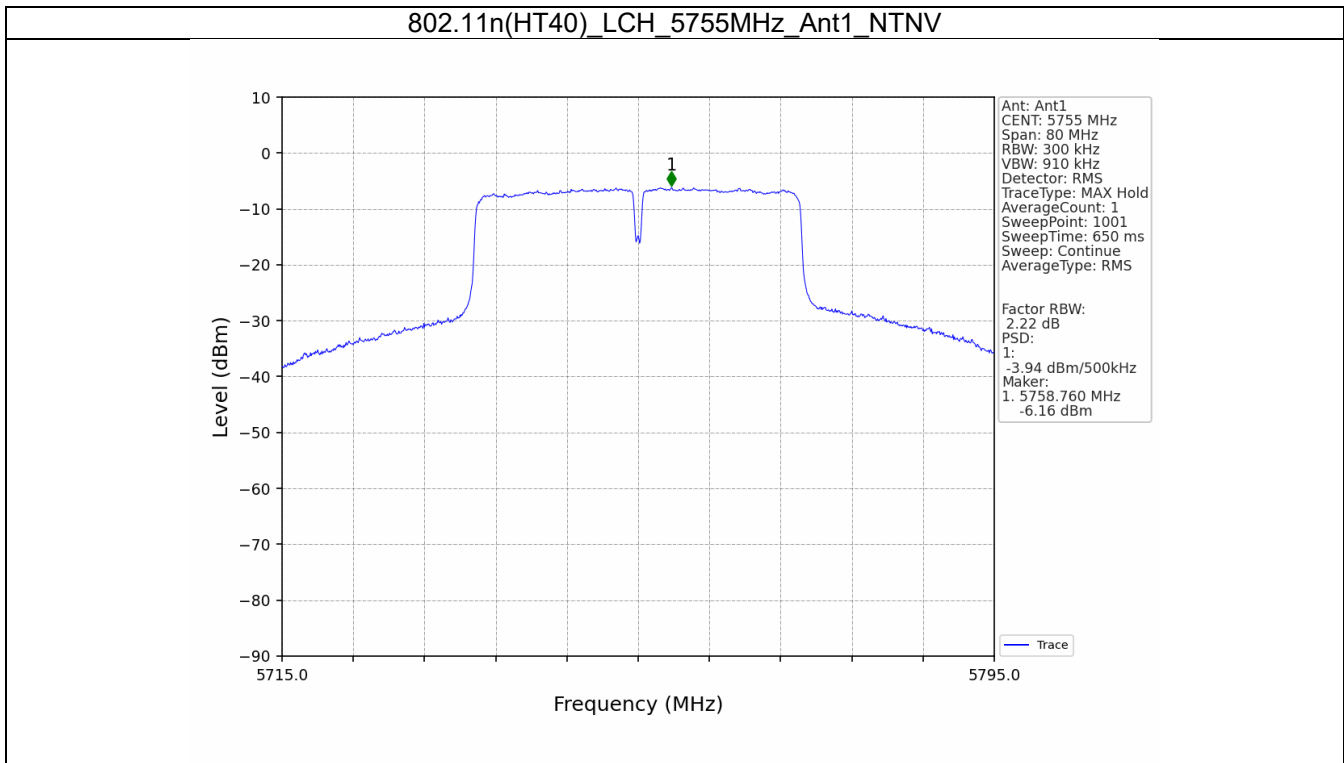


802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV





## 5. Unwanted Emissions In Restricted Frequency Bands

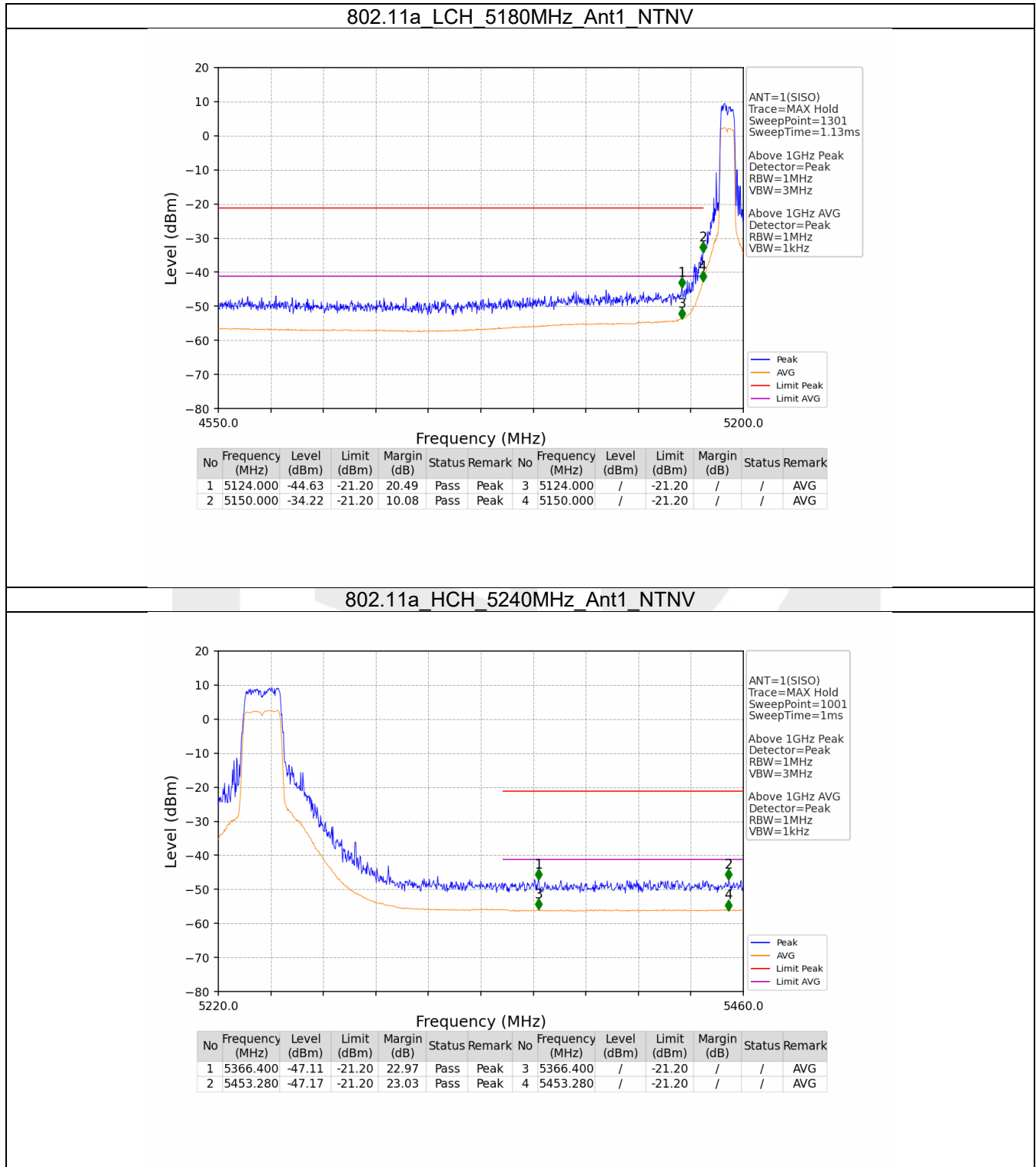
### 5.1 Test Result

#### 5.1.1 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
		5745	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
		5745	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
		5755	1	Refer To Test Graph		Pass
		5795	1	Refer To Test Graph		Pass

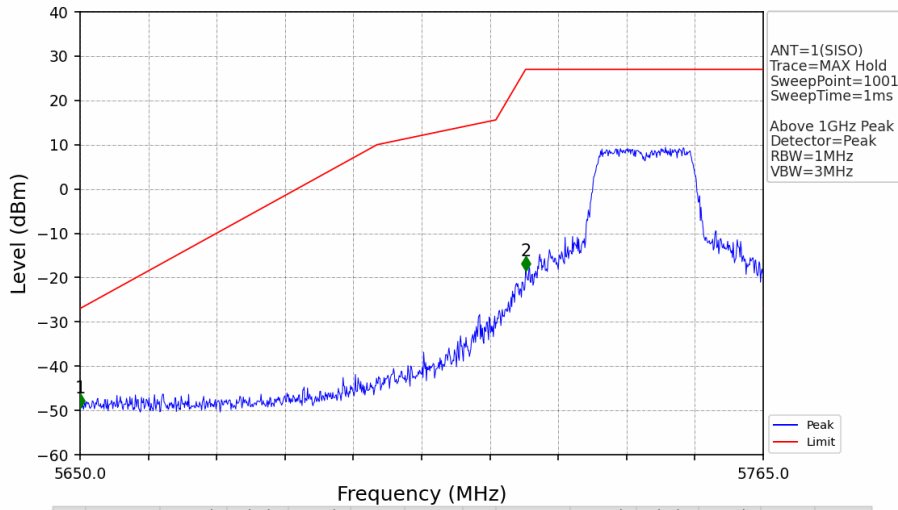
## 5.2 Test Graph

### 5.2.1 CSE



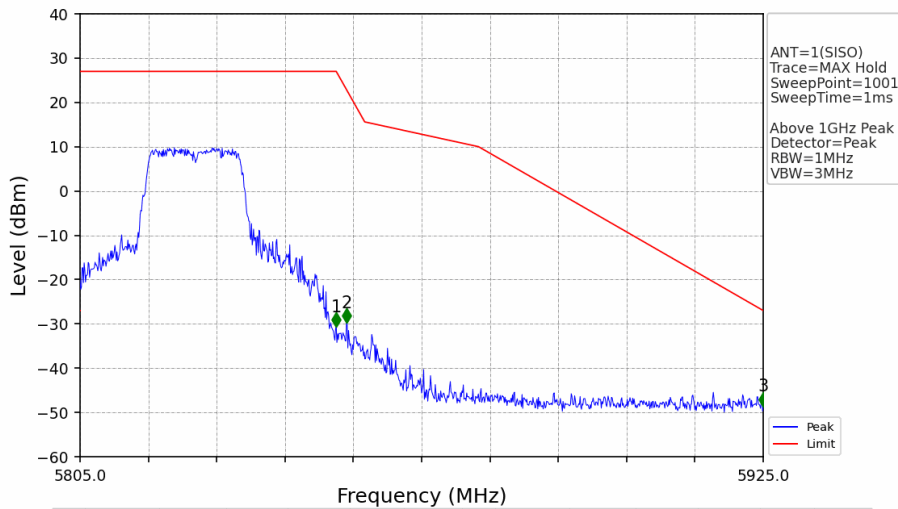


802.11a\_LCH\_5745MHz\_Ant1\_NTNV



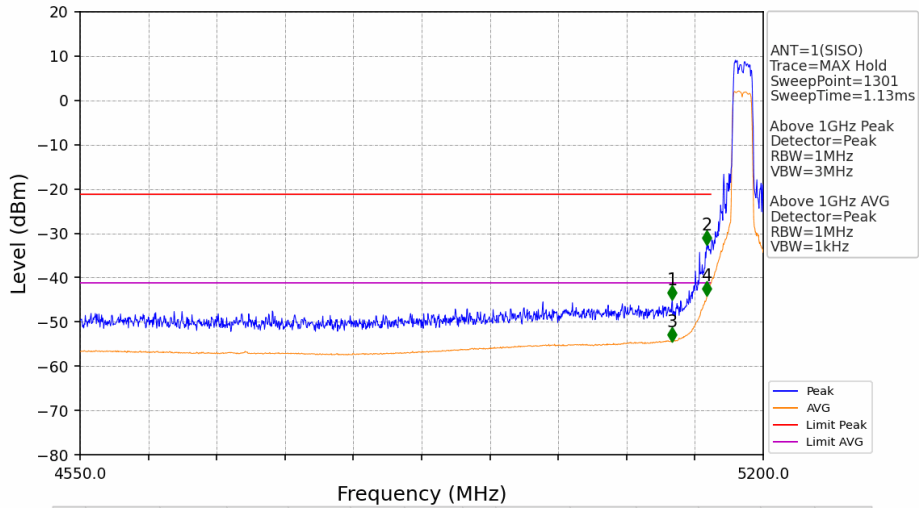
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-49.46	-27.00	22.46	Pass	Peak	2	5725.000	-18.40	27.00	45.40	Pass	Peak

802.11a\_HCH\_5825MHz\_Ant1\_NTNV



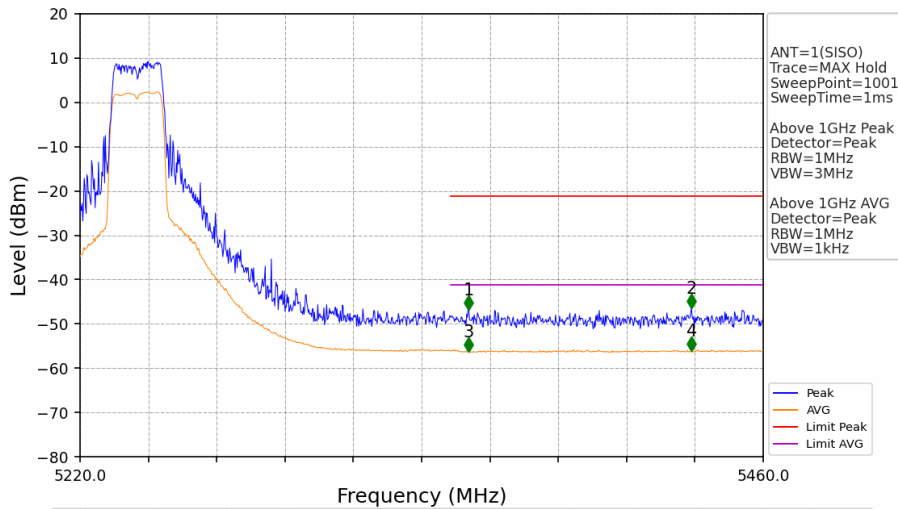
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5850.000	-30.60	27.00	57.60	Pass	Peak	3	5925.000	-48.56	-27.00	21.56	Pass	Peak
2	5851.800	-29.76	22.90	52.66	Pass	Peak							

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



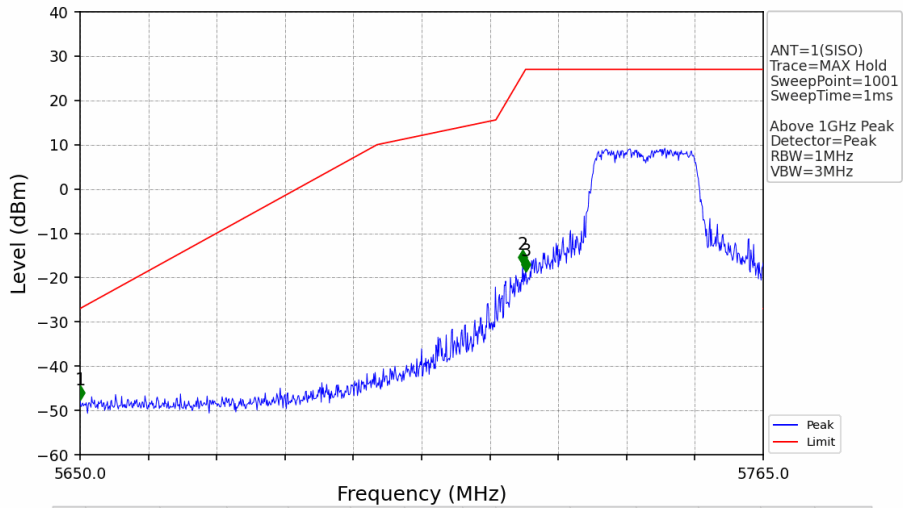
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5113.500	-44.94	-21.20	20.80	Pass	Peak	3	5113.500	/	-21.20	/	/	AVG
2	5146.500	-32.62	-21.20	8.48	Pass	Peak	4	5146.500	/	-21.20	/	/	AVG

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



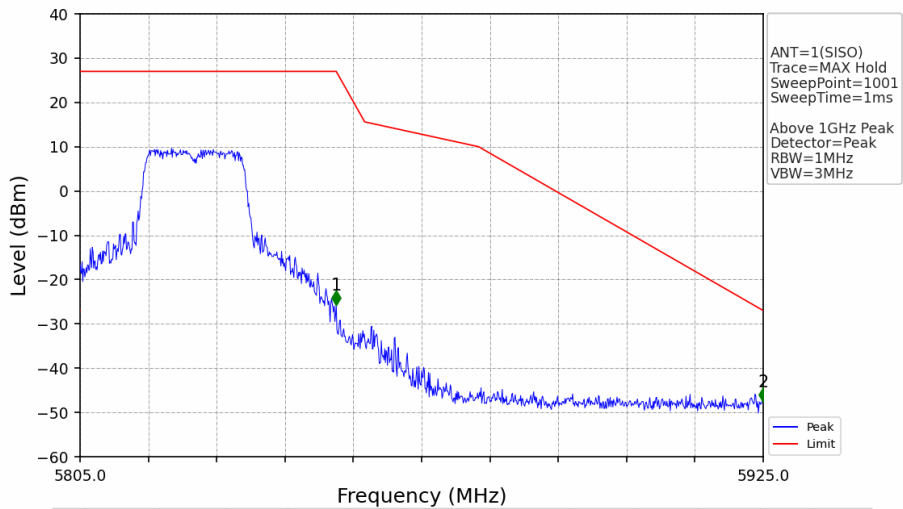
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5356.560	-46.75	-21.20	22.61	Pass	Peak	3	5356.560	/	-21.20	/	/	AVG
2	5434.800	-46.45	-21.20	22.31	Pass	Peak	4	5434.800	/	-21.20	/	/	AVG

802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



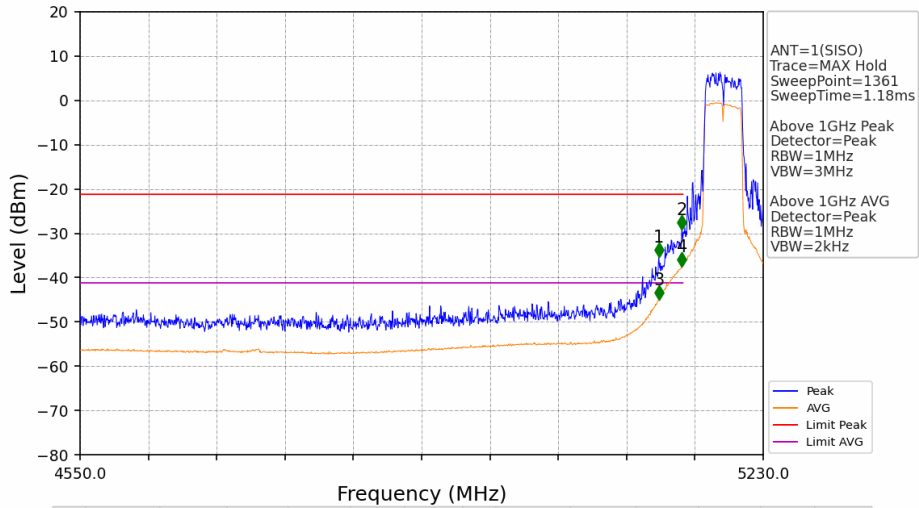
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-47.63	-27.00	20.63	Pass	Peak	3	5725.000	-18.50	27.00	45.51	Pass	Peak
2	5724.520	-16.89	25.91	42.80	Pass	Peak							

802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



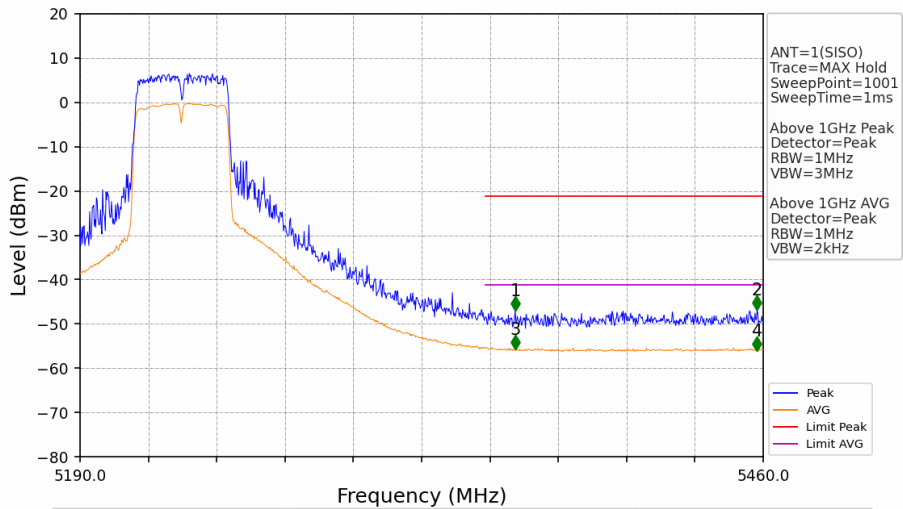
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5850.000	-25.64	27.00	52.64	Pass	Peak	2	5925.000	-47.57	-27.00	20.57	Pass	Peak

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



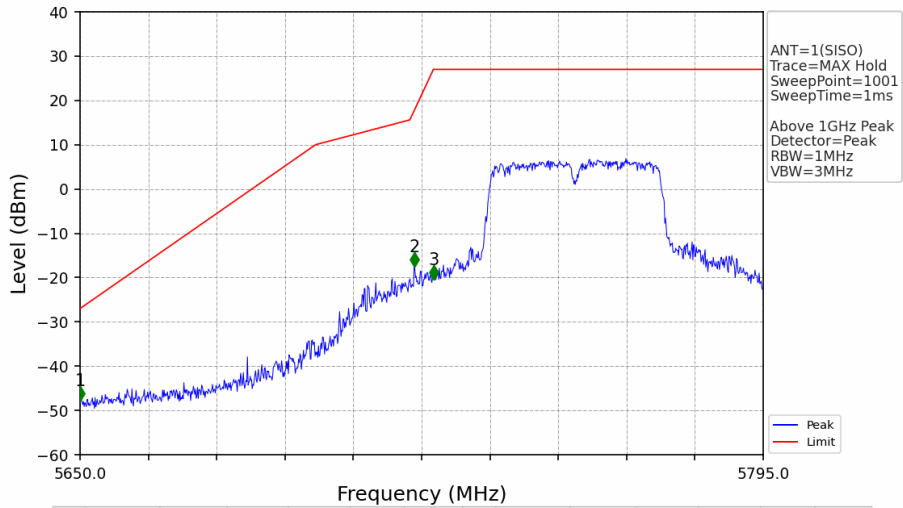
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	5126.000	-35.30	-21.20	11.16	Pass Peak	3	5126.000	/	-21.20	/	/ AVG
2	5149.000	-29.18	-21.20	5.04	Pass Peak	4	5149.000	/	-21.20	/	/ AVG

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



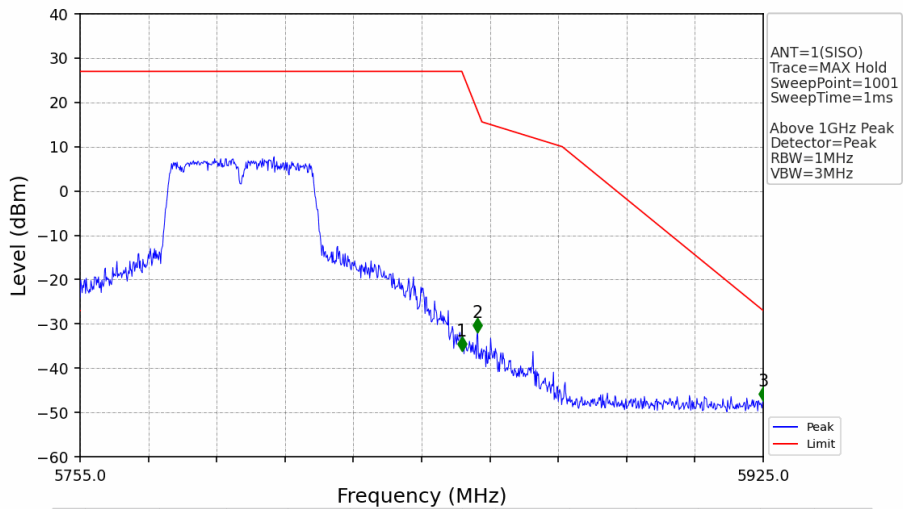
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status Remark
1	5361.990	-47.00	-21.20	22.86	Pass Peak	3	5361.990	/	-21.20	/	/ AVG
2	5457.570	-46.88	-21.20	22.74	Pass Peak	4	5457.570	/	-21.20	/	/ AVG

802.11n(HT40)\_LCH\_5755MHz\_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	5650.000	-47.68	-27.00	20.68	Pass	Peak	3	5725.000	-20.47	27.00	47.47	Pass	Peak
2	5720.905	-17.54	17.66	35.20	Pass	Peak							

802.11n(HT40)\_HCH\_5795MHz\_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	5850.000	-36.07	27.00	63.07	Pass	Peak	3	5925.000	-47.35	-27.00	20.35	Pass	Peak
2	5853.940	-31.81	18.02	49.83	Pass	Peak							

## 6. Frequency Stability

### 6.1 Test Result

#### 6.1.1 Ant1

Ant1											
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict				
Carrier Wave	SISO	5180	20	102	5179.999	5150 to 5250	Pass				
				120	5179.998	5150 to 5250	Pass				
				138	5179.999	5150 to 5250	Pass				
			-30	120	5179.998	5150 to 5250	Pass				
				-20	120	5179.999	5150 to 5250	Pass			
					120	5179.999	5150 to 5250	Pass			
			-10	120	5179.999	5150 to 5250	Pass				
				120	5179.999	5150 to 5250	Pass				
			0	120	5179.999	5150 to 5250	Pass				
				120	5179.999	5150 to 5250	Pass				
			10	120	5179.999	5150 to 5250	Pass				
				120	5179.999	5150 to 5250	Pass				
		30	120	5179.998	5150 to 5250	Pass					
			120	5179.998	5150 to 5250	Pass					
		40	120	5179.998	5150 to 5250	Pass					
			120	5179.998	5150 to 5250	Pass					
		50	120	5179.998	5150 to 5250	Pass					
			120	5179.998	5150 to 5250	Pass					
		5200	20	5200	20	102	5199.998	5150 to 5250	Pass		
						120	5199.998	5150 to 5250	Pass		
						138	5199.999	5150 to 5250	Pass		
			-30	5200	-30	120	5199.998	5199.998	5150 to 5250	Pass	
							-20	120	5199.998	5150 to 5250	Pass
								120	5199.998	5150 to 5250	Pass
			-10	5200	-10	120	5199.999	5199.999	5150 to 5250	Pass	
							120	5199.999	5150 to 5250	Pass	
			0	5200	0	120	5199.999	5199.999	5150 to 5250	Pass	
							120	5199.999	5150 to 5250	Pass	
			10	5200	10	120	5199.999	5199.999	5150 to 5250	Pass	
							120	5199.999	5150 to 5250	Pass	
		30	5200	30	120	5199.998	5199.998	5150 to 5250	Pass		
						120	5199.998	5150 to 5250	Pass		
		40	5200	40	120	5199.999	5199.999	5150 to 5250	Pass		
						120	5199.999	5150 to 5250	Pass		
		50	5200	50	120	5199.999	5199.999	5150 to 5250	Pass		
						120	5199.999	5150 to 5250	Pass		
		5240	20	5240	20	102	5239.998	5150 to 5250	Pass		
						120	5239.998	5150 to 5250	Pass		
						138	5239.999	5150 to 5250	Pass		
			-30	5240	-30	120	5239.998	5239.998	5150 to 5250	Pass	
							-20	120	5239.999	5150 to 5250	Pass
								120	5239.999	5150 to 5250	Pass
			-10	5240	-10	120	5239.999	5239.999	5150 to 5250	Pass	
							120	5239.999	5150 to 5250	Pass	
			0	5240	0	120	5239.999	5239.999	5150 to 5250	Pass	
							120	5239.999	5150 to 5250	Pass	
			10	5240	10	120	5239.998	5239.998	5150 to 5250	Pass	
							120	5239.998	5150 to 5250	Pass	
30	5240	30	120	5239.999	5239.999	5150 to 5250	Pass				
				120	5239.999	5150 to 5250	Pass				
40	5240	40	120	5239.999	5239.999	5150 to 5250	Pass				
				120	5239.999	5150 to 5250	Pass				
50	5240	50	120	5239.999	5239.999	5150 to 5250	Pass				
				120	5239.999	5150 to 5250	Pass				
5745	20	5745	20	102	5744.998	5725 to 5850	Pass				
				120	5744.998	5725 to 5850	Pass				
				138	5744.998	5725 to 5850	Pass				
	-30	5745	-30	120	5744.998	5744.998	5725 to 5850	Pass			
					-20	120	5744.998	5725 to 5850	Pass		
						120	5744.998	5725 to 5850	Pass		
	-10	5745	-10	120	5744.998	5744.998	5725 to 5850	Pass			
					120	5744.998	5725 to 5850	Pass			
0	5745	0	120	5744.998	5744.998	5725 to 5850	Pass				
				120	5744.998	5725 to 5850	Pass				
10	5745	10	120	5744.998	5744.998	5725 to 5850	Pass				
				120	5744.998	5725 to 5850	Pass				

			30	120	5744.998	5725 to 5850	Pass
			40	120	5744.998	5725 to 5850	Pass
			50	120	5744.998	5725 to 5850	Pass
		5785	20	102	5784.998	5725 to 5850	Pass
				120	5784.998	5725 to 5850	Pass
				138	5784.998	5725 to 5850	Pass
			-30	120	5784.998	5725 to 5850	Pass
			-20	120	5784.998	5725 to 5850	Pass
			-10	120	5784.998	5725 to 5850	Pass
			0	120	5784.998	5725 to 5850	Pass
			10	120	5784.998	5725 to 5850	Pass
			30	120	5784.998	5725 to 5850	Pass
			40	120	5784.998	5725 to 5850	Pass
			50	120	5784.998	5725 to 5850	Pass
		5825	20	102	5824.998	5725 to 5850	Pass
				120	5824.998	5725 to 5850	Pass
				138	5824.998	5725 to 5850	Pass
			-30	120	5824.998	5725 to 5850	Pass
			-20	120	5824.998	5725 to 5850	Pass
			-10	120	5824.998	5725 to 5850	Pass
			0	120	5824.998	5725 to 5850	Pass
			10	120	5824.998	5725 to 5850	Pass
			30	120	5824.998	5725 to 5850	Pass
			40	120	5824.998	5725 to 5850	Pass
			50	120	5824.998	5725 to 5850	Pass
		5190	20	102	5189.998	5150 to 5250	Pass
				120	5189.998	5150 to 5250	Pass
				138	5189.998	5150 to 5250	Pass
			-30	120	5189.998	5150 to 5250	Pass
			-20	120	5189.998	5150 to 5250	Pass
			-10	120	5189.998	5150 to 5250	Pass
			0	120	5189.998	5150 to 5250	Pass
			10	120	5189.998	5150 to 5250	Pass
			30	120	5189.998	5150 to 5250	Pass
			40	120	5189.998	5150 to 5250	Pass
			50	120	5189.998	5150 to 5250	Pass
		5230	20	102	5229.998	5150 to 5250	Pass
				120	5229.998	5150 to 5250	Pass
				138	5229.998	5150 to 5250	Pass
			-30	120	5229.998	5150 to 5250	Pass
			-20	120	5229.998	5150 to 5250	Pass
			-10	120	5229.998	5150 to 5250	Pass
			0	120	5229.998	5150 to 5250	Pass
			10	120	5229.998	5150 to 5250	Pass
			30	120	5229.998	5150 to 5250	Pass
			40	120	5229.998	5150 to 5250	Pass
			50	120	5229.998	5150 to 5250	Pass
		5755	20	102	5754.997	5725 to 5850	Pass
				120	5754.998	5725 to 5850	Pass
				138	5754.998	5725 to 5850	Pass
-30	120		5754.998	5725 to 5850	Pass		
-20	120		5754.998	5725 to 5850	Pass		

			-10	120	5754.998	5725 to 5850	Pass	
			0	120	5754.998	5725 to 5850	Pass	
			10	120	5754.998	5725 to 5850	Pass	
			30	120	5754.998	5725 to 5850	Pass	
			40	120	5754.998	5725 to 5850	Pass	
			50	120	5754.998	5725 to 5850	Pass	
		5795	20	102	5794.998	5725 to 5850	Pass	
				120	5794.998	5725 to 5850	Pass	
				138	5794.998	5725 to 5850	Pass	
				-30	120	5794.998	5725 to 5850	Pass
				-20	120	5794.998	5725 to 5850	Pass
				-10	120	5794.998	5725 to 5850	Pass
				0	120	5794.998	5725 to 5850	Pass
				10	120	5794.998	5725 to 5850	Pass
				30	120	5794.998	5725 to 5850	Pass
				40	120	5794.998	5725 to 5850	Pass
				50	120	5794.998	5725 to 5850	Pass

----- End of Report -----