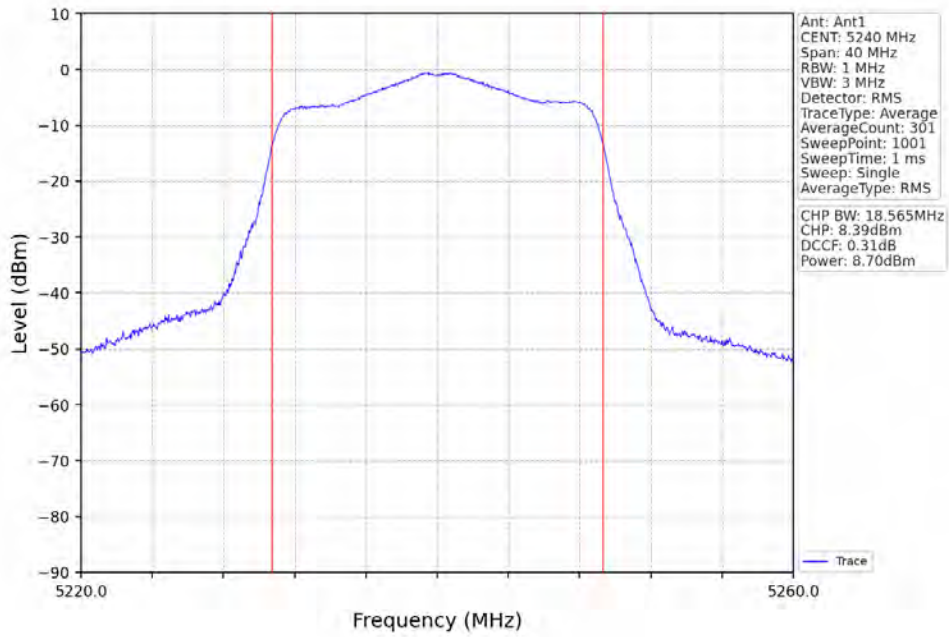
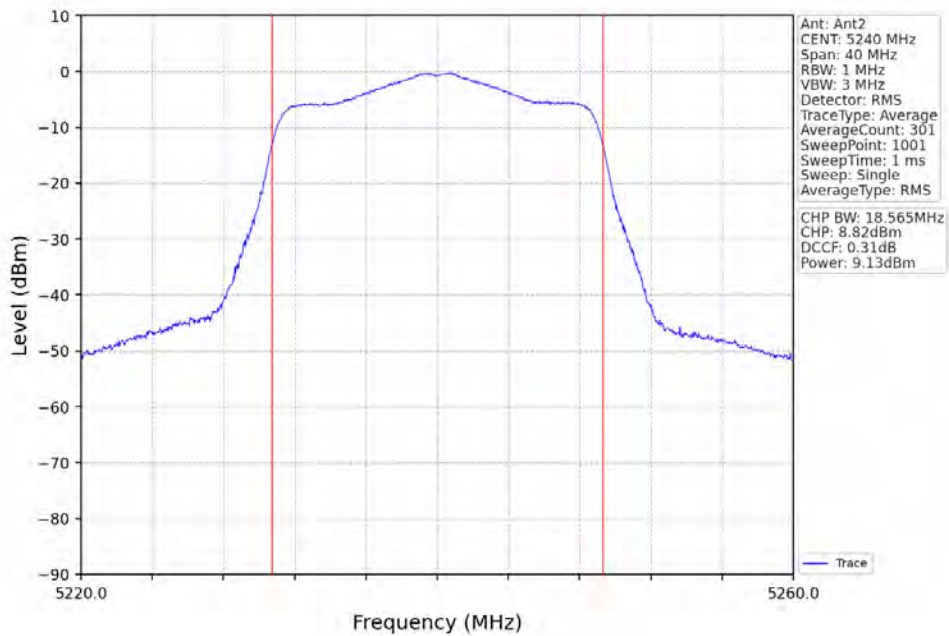


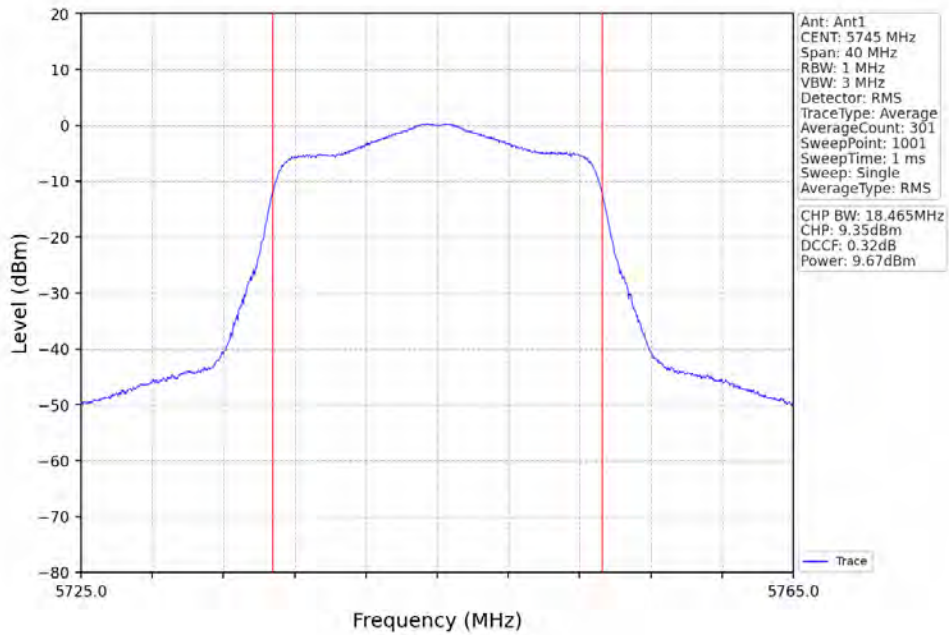
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



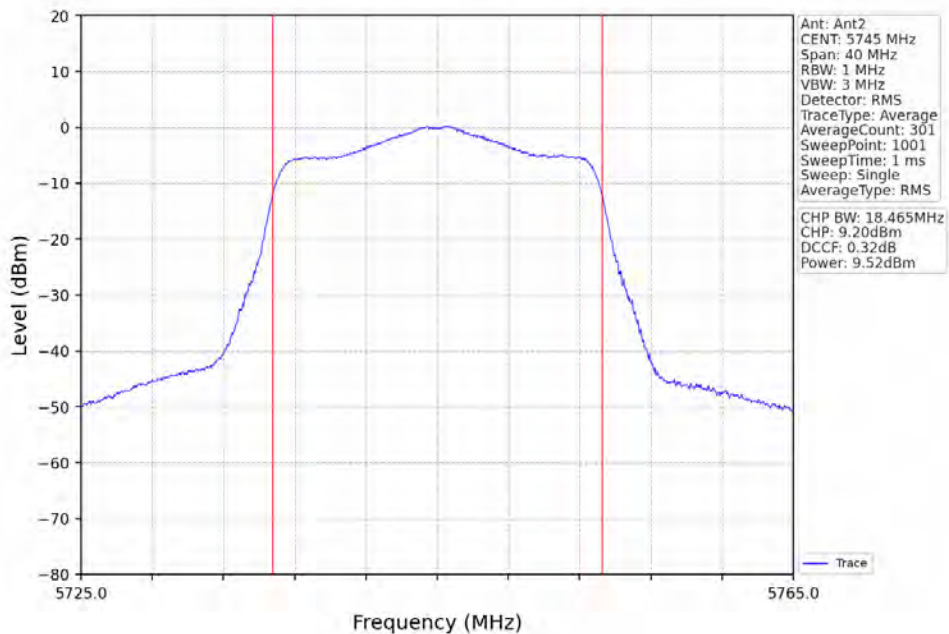
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



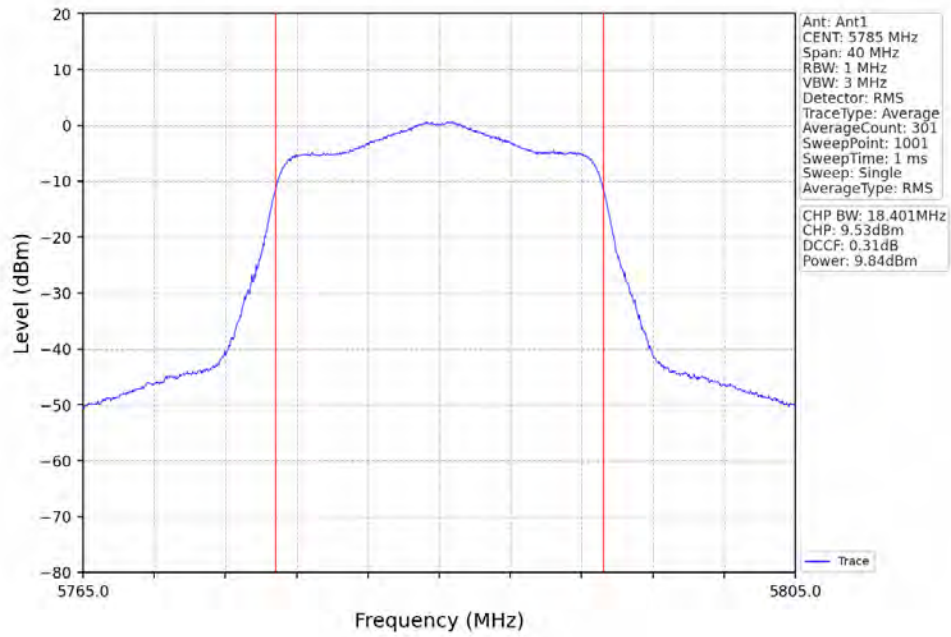
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



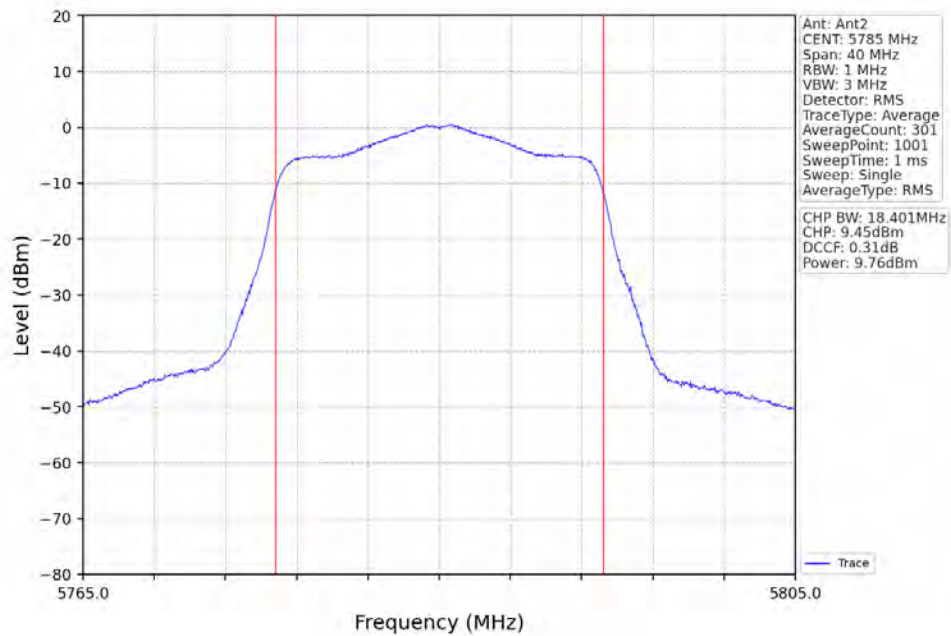
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



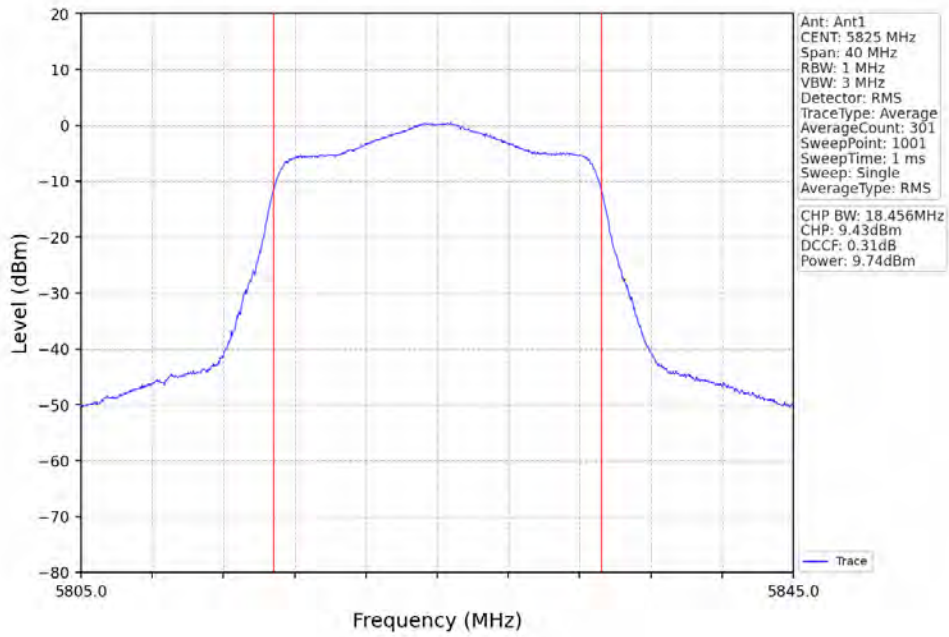
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



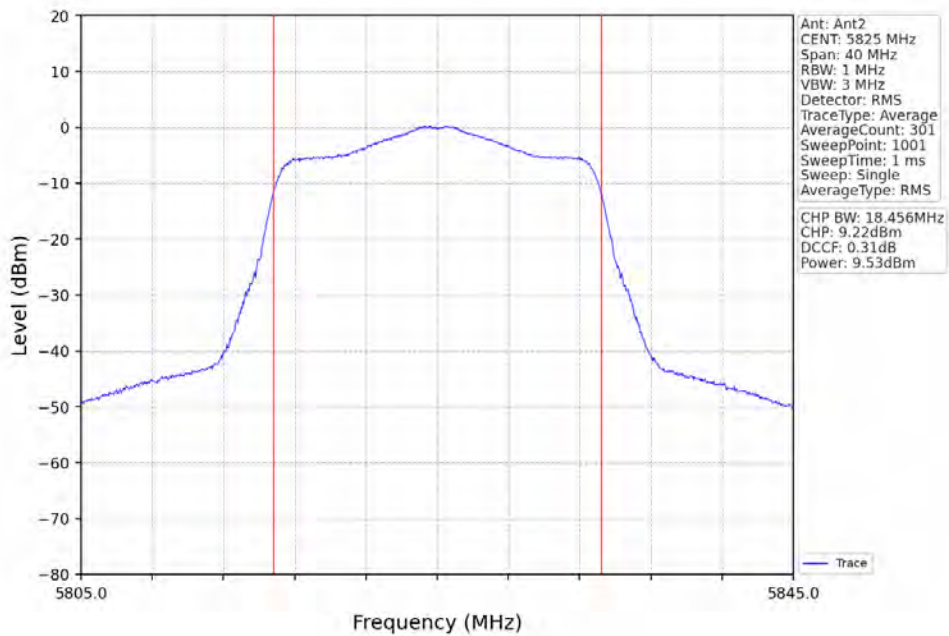
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



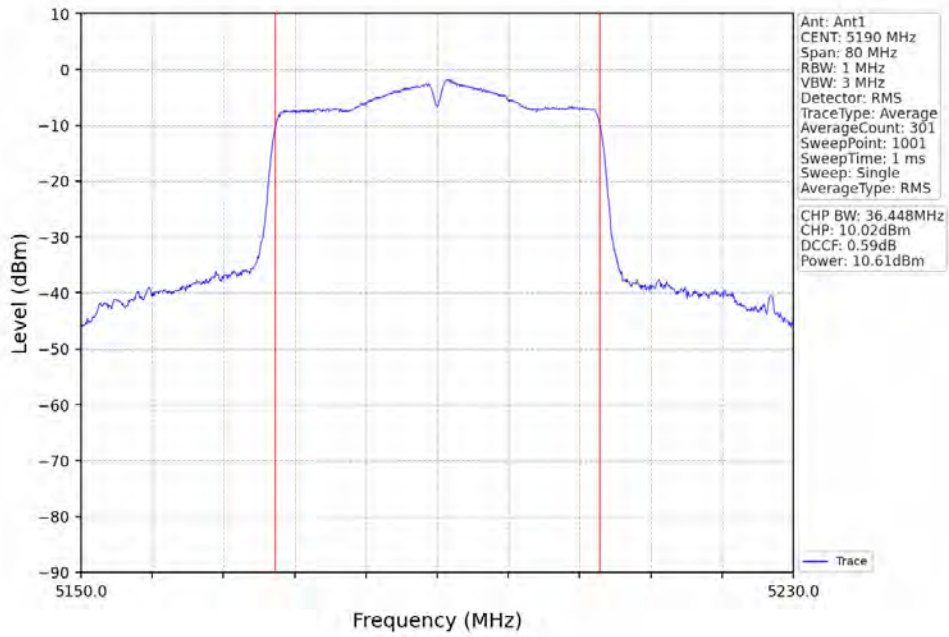
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



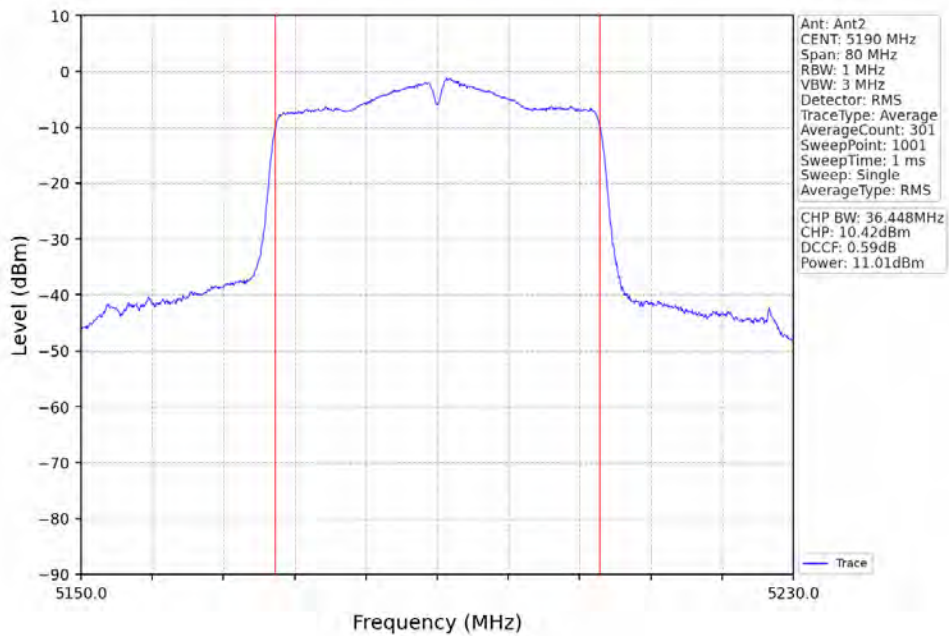
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



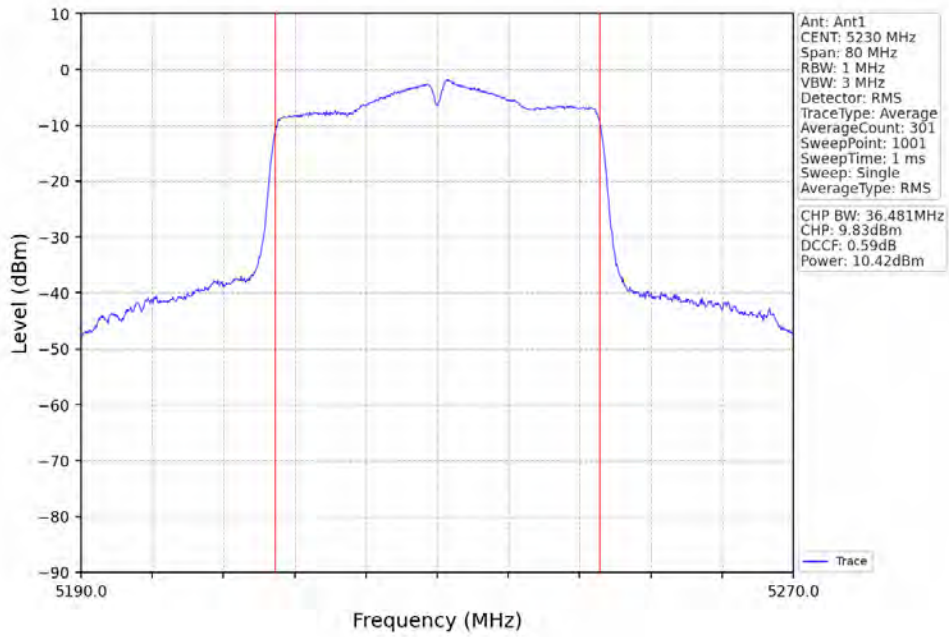
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



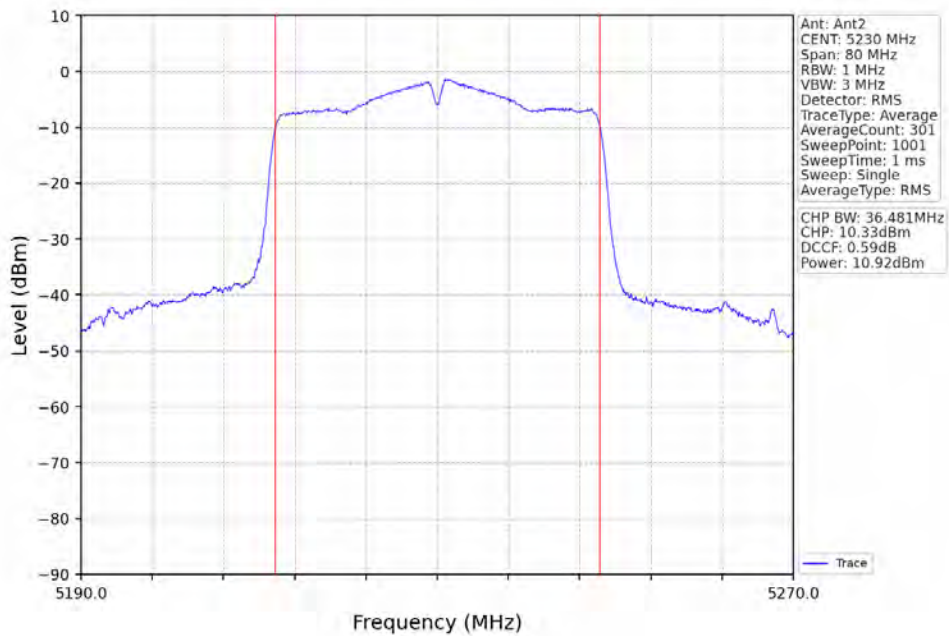
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



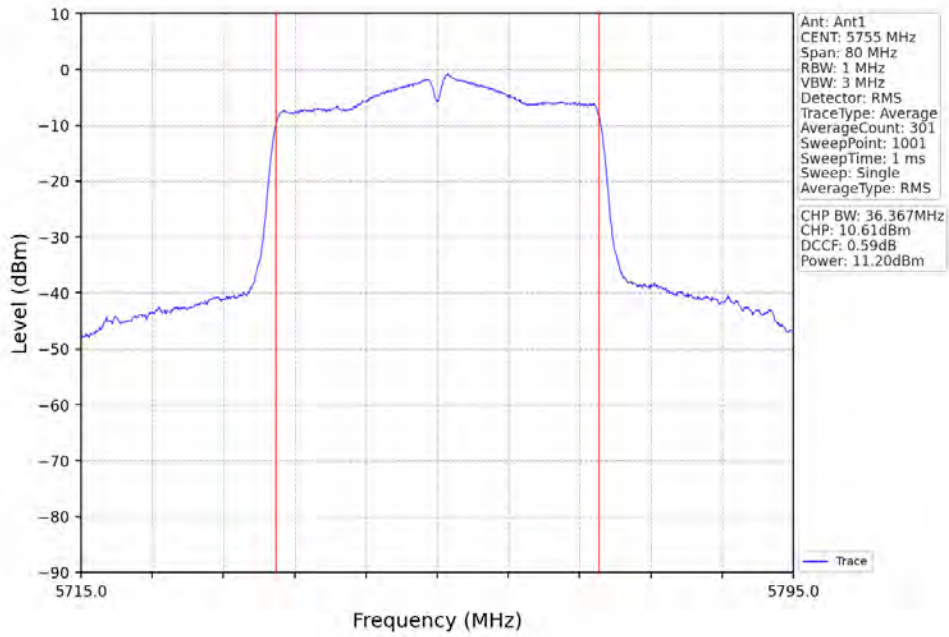
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



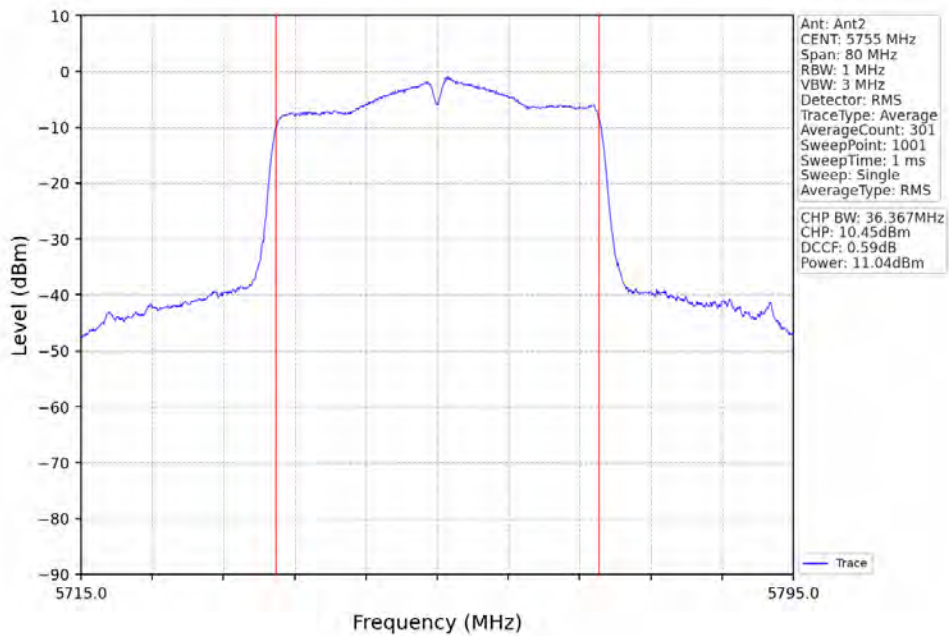
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



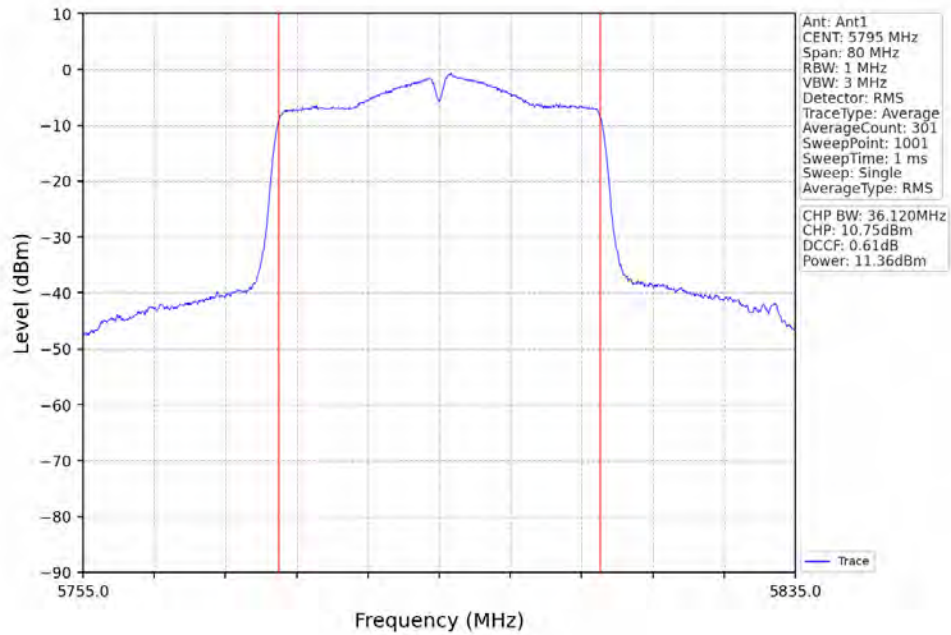
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



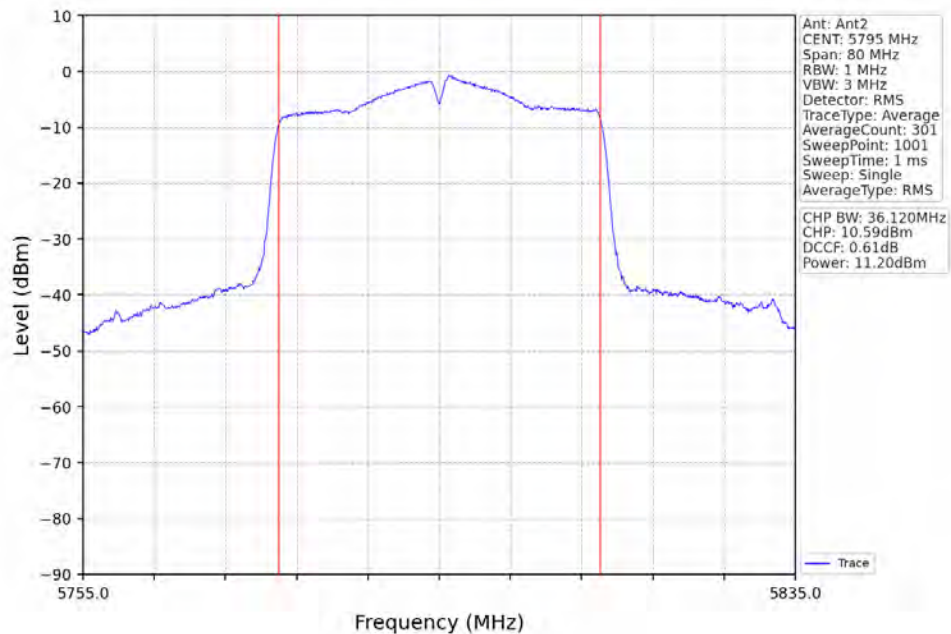
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



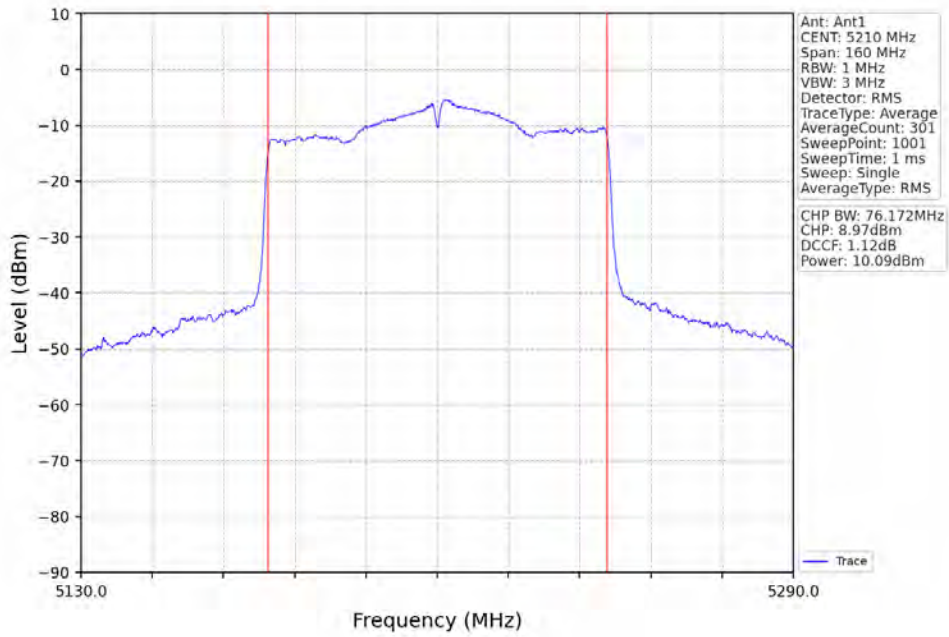
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



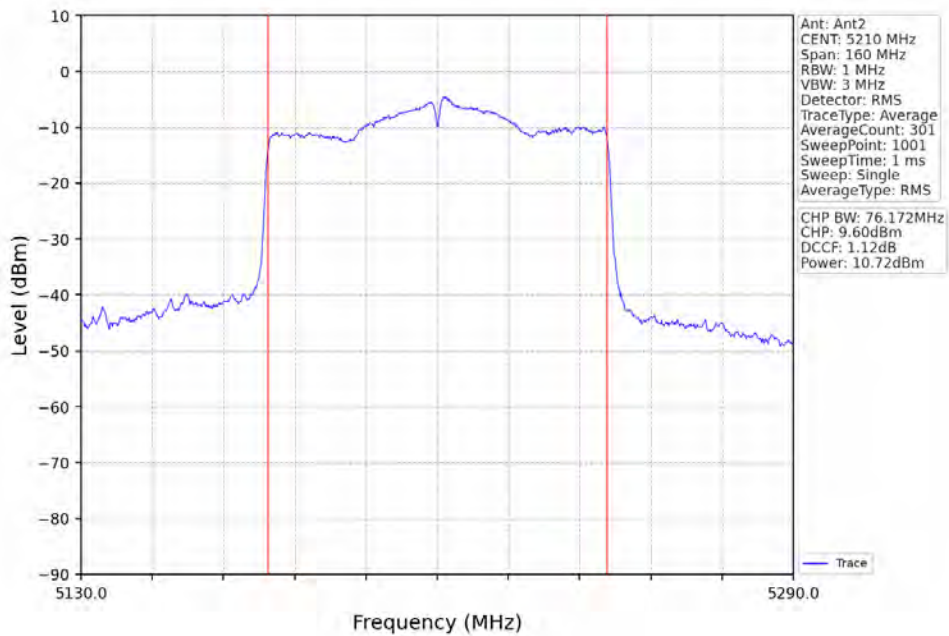
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



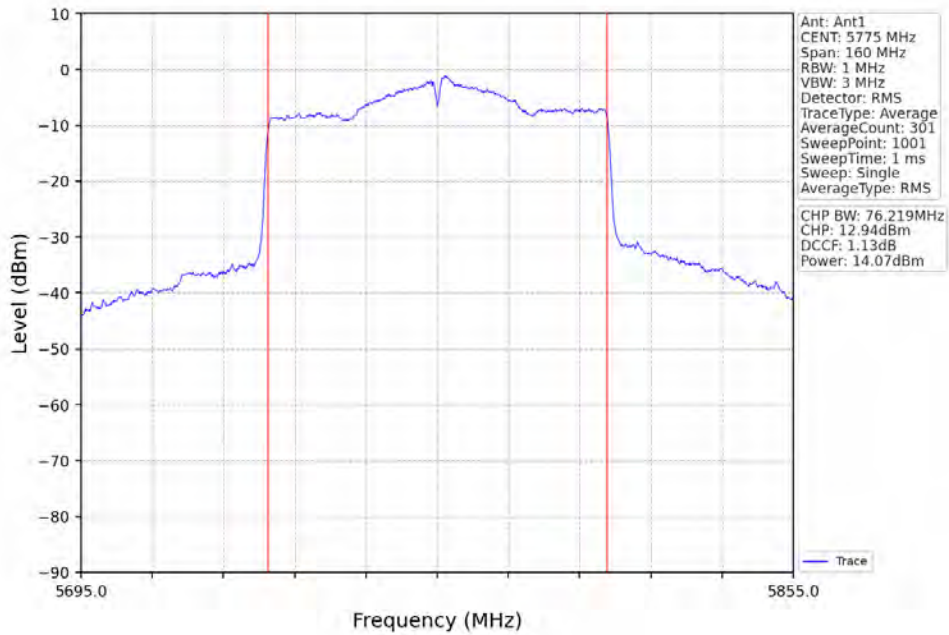
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



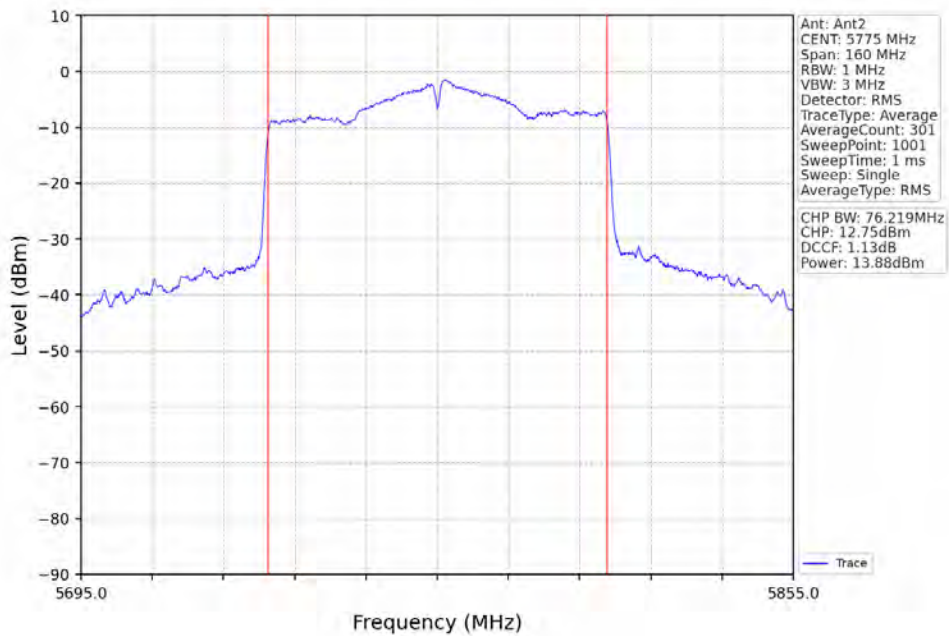
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV

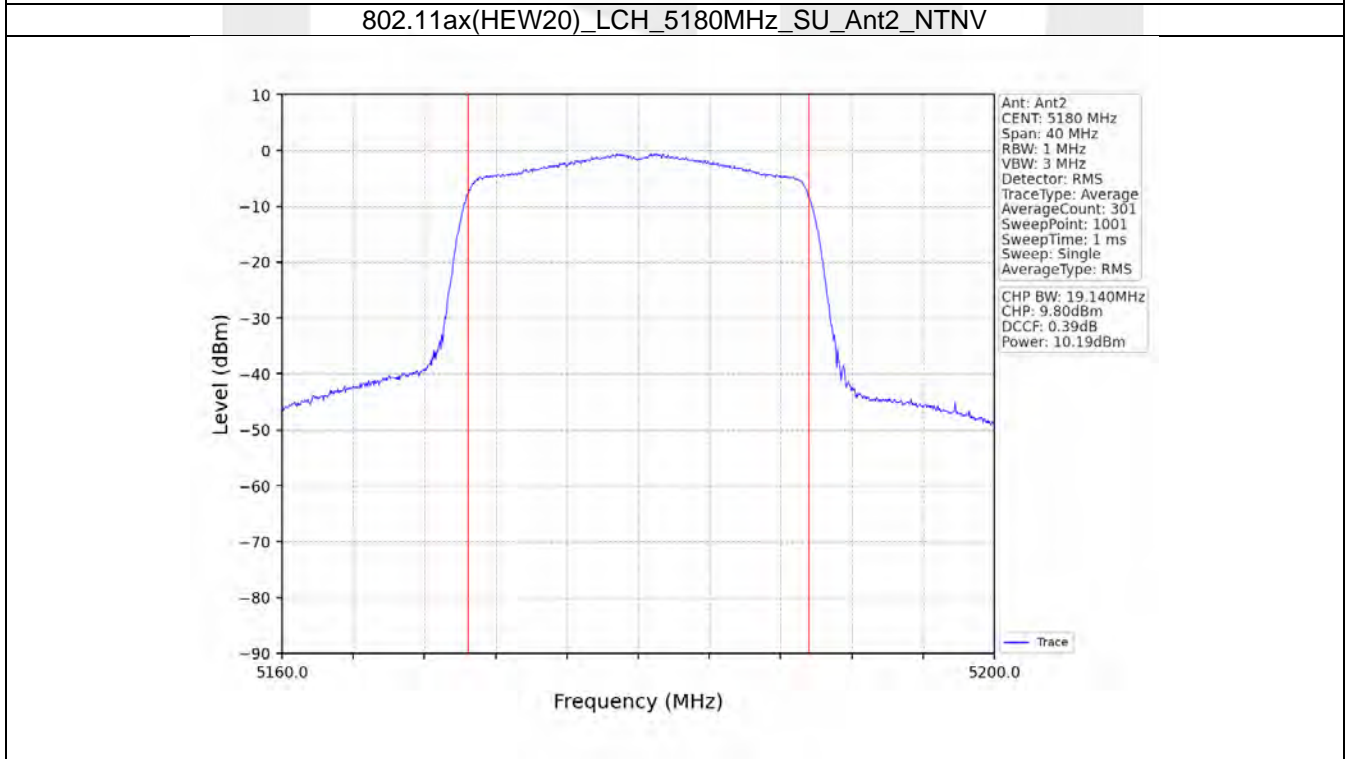
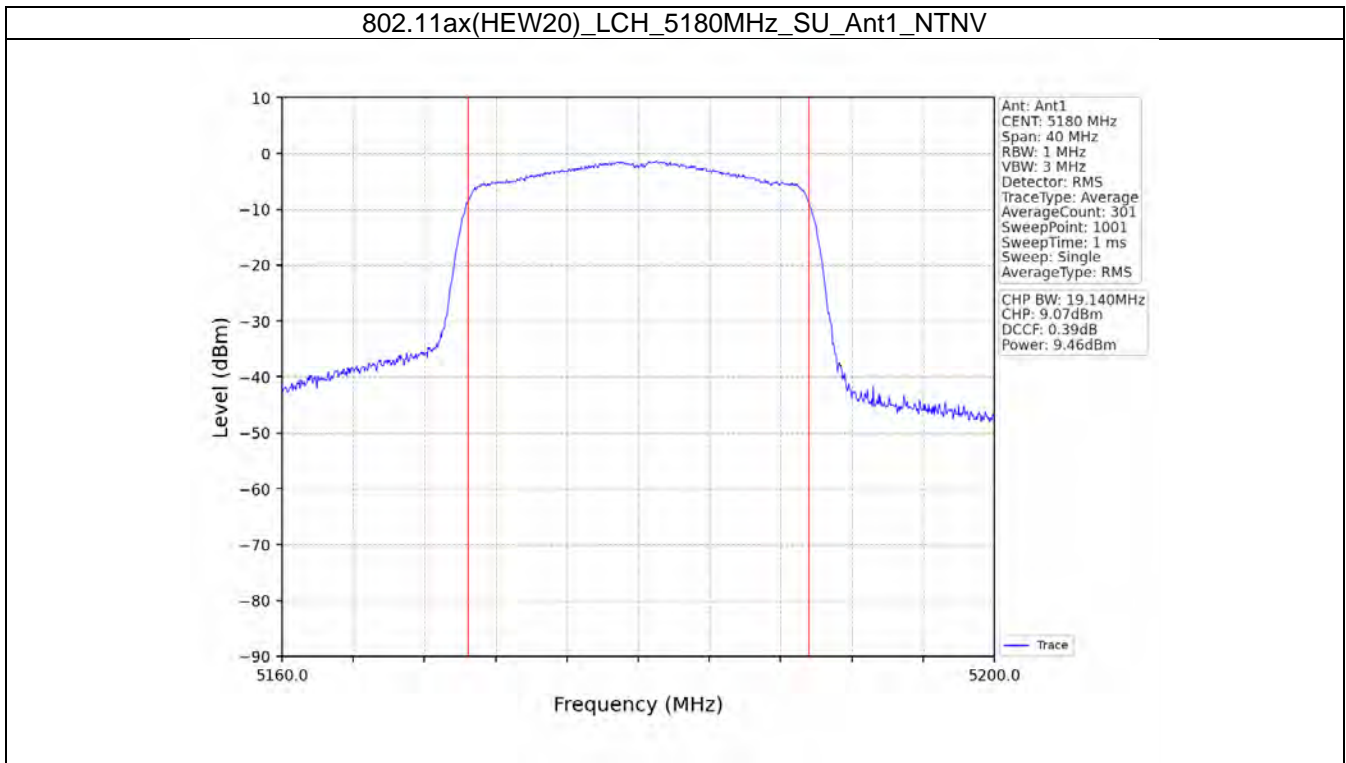


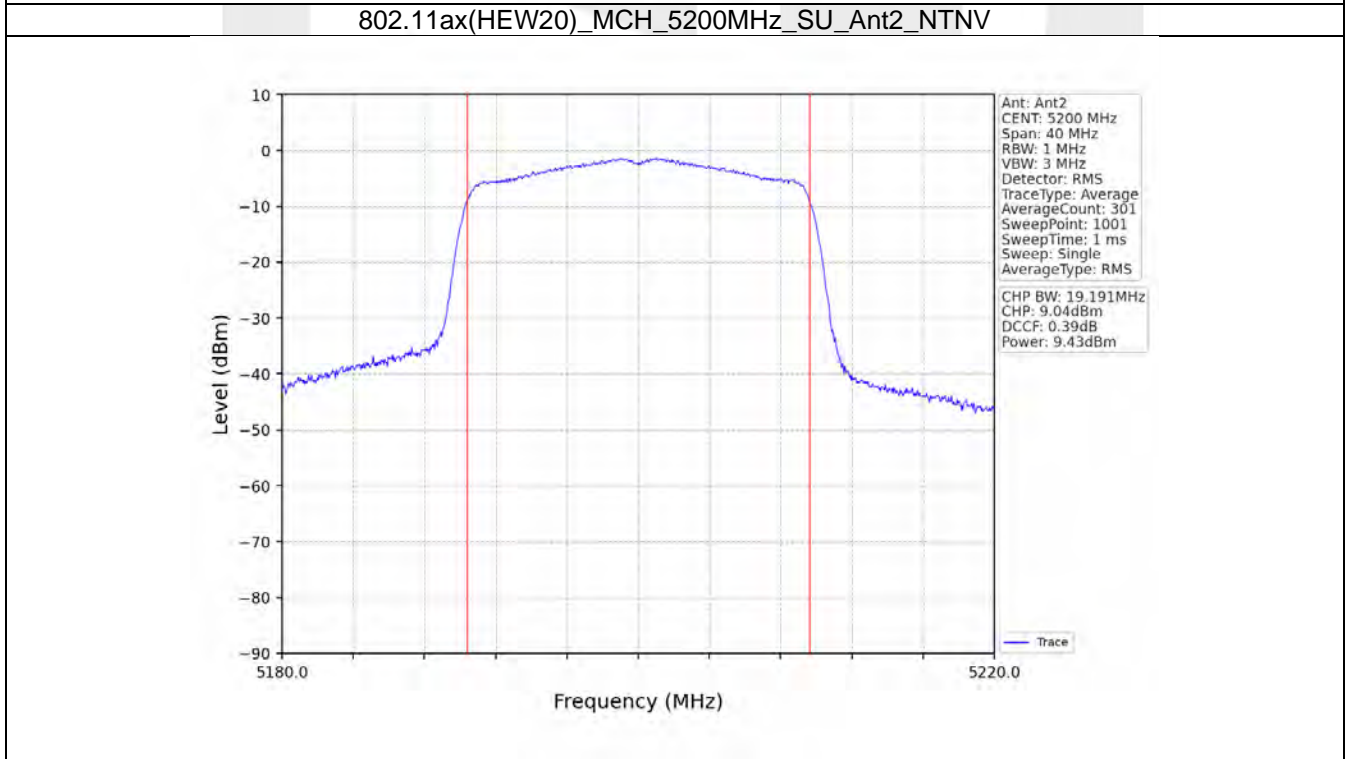
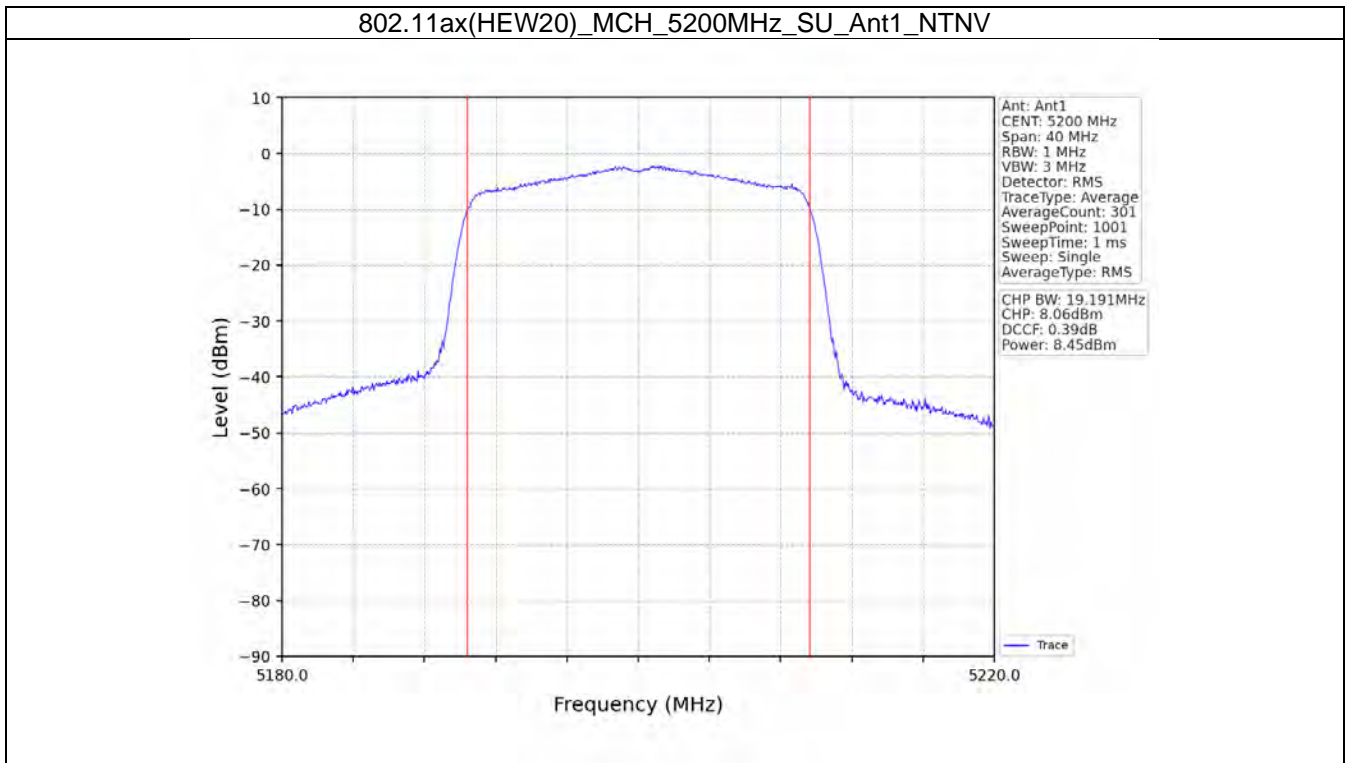
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

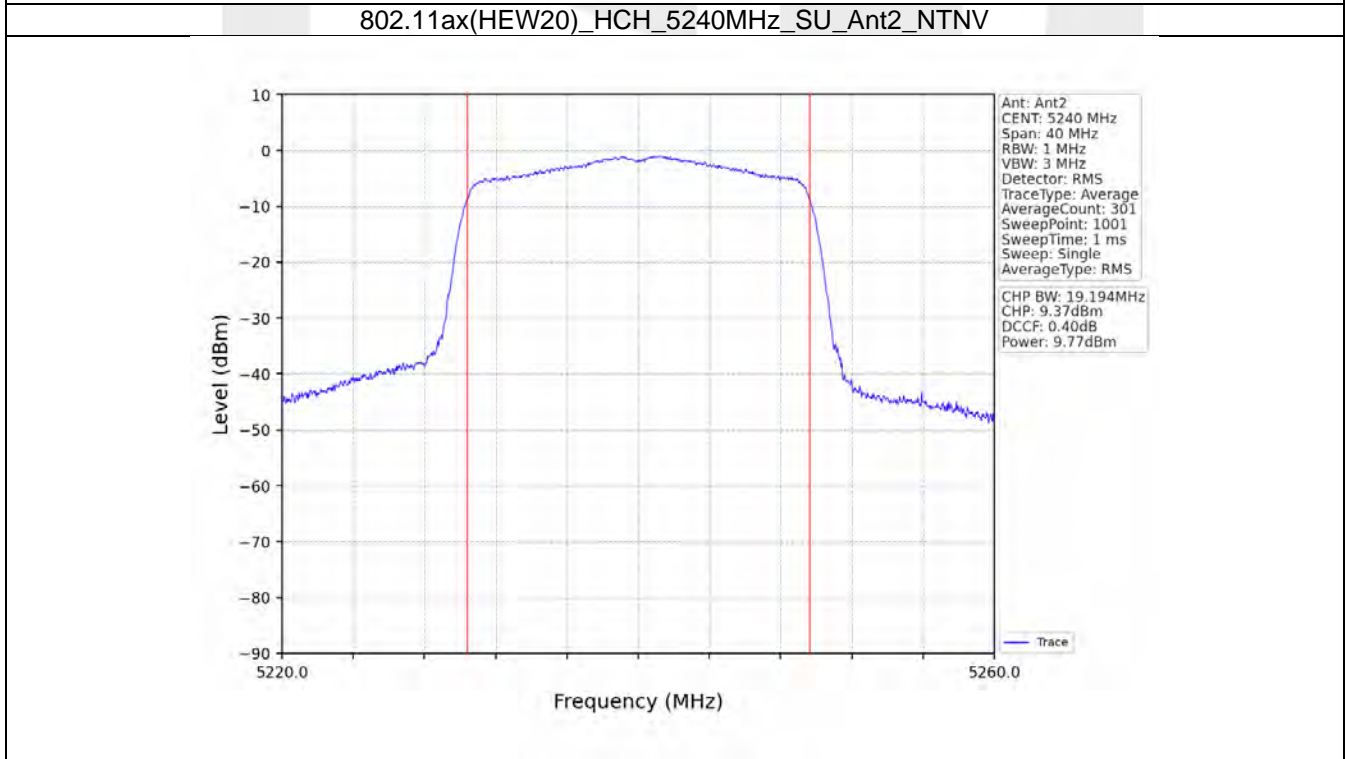
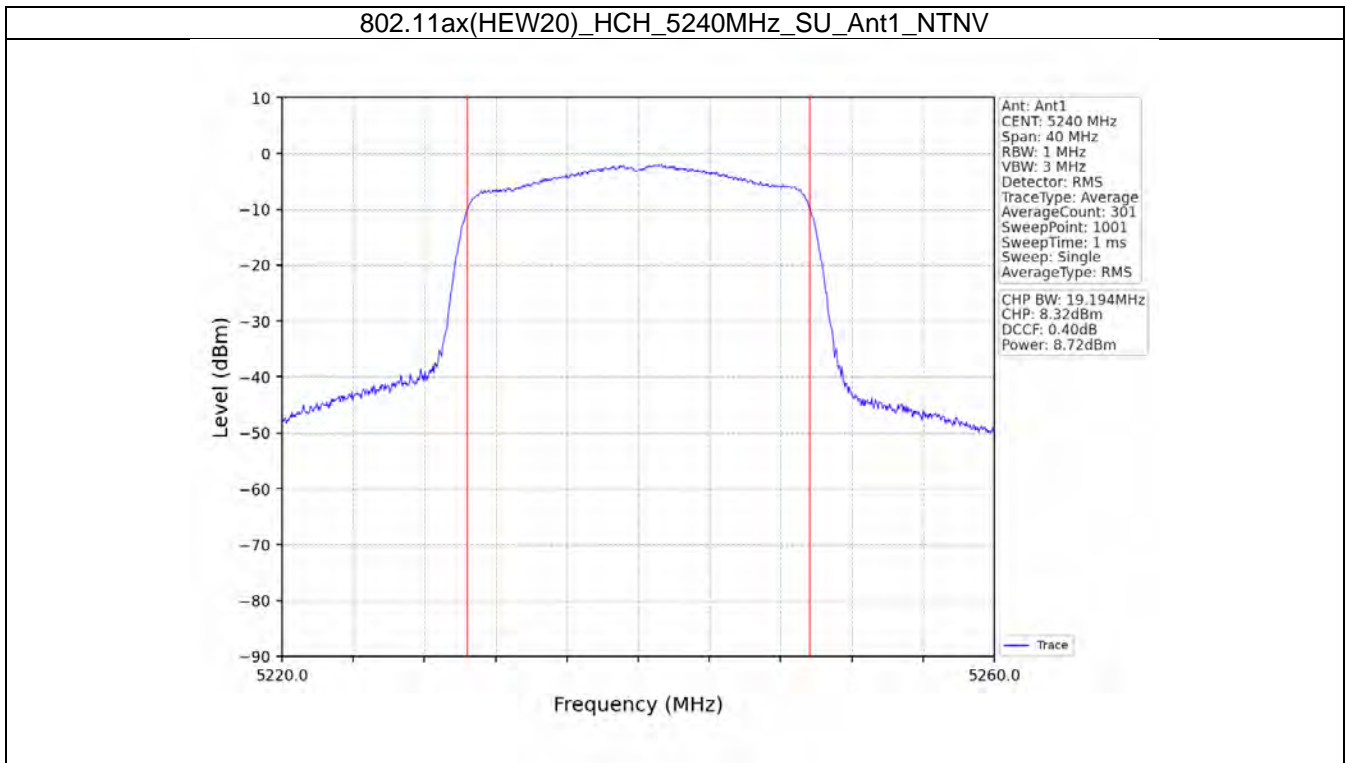


802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV

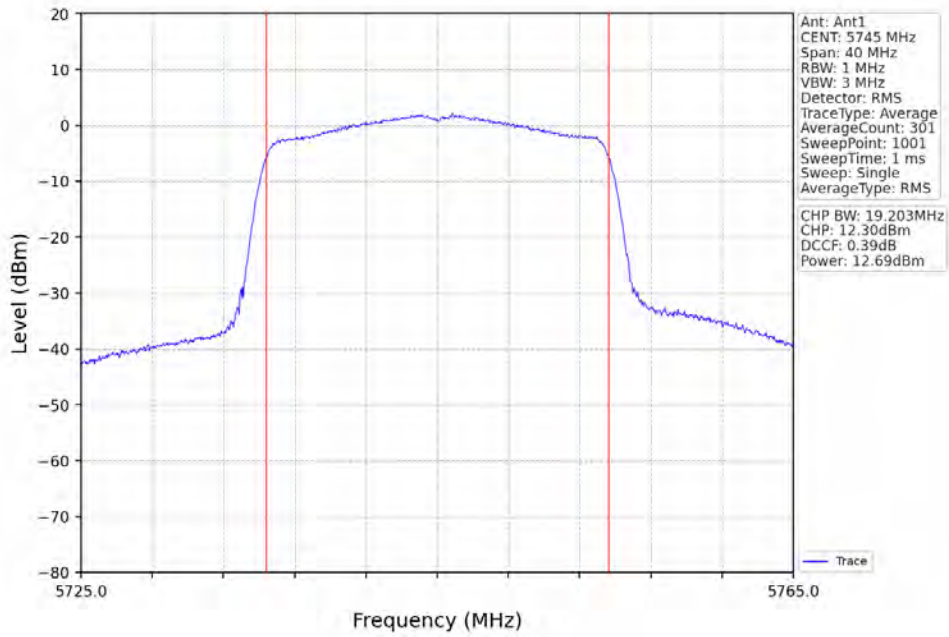




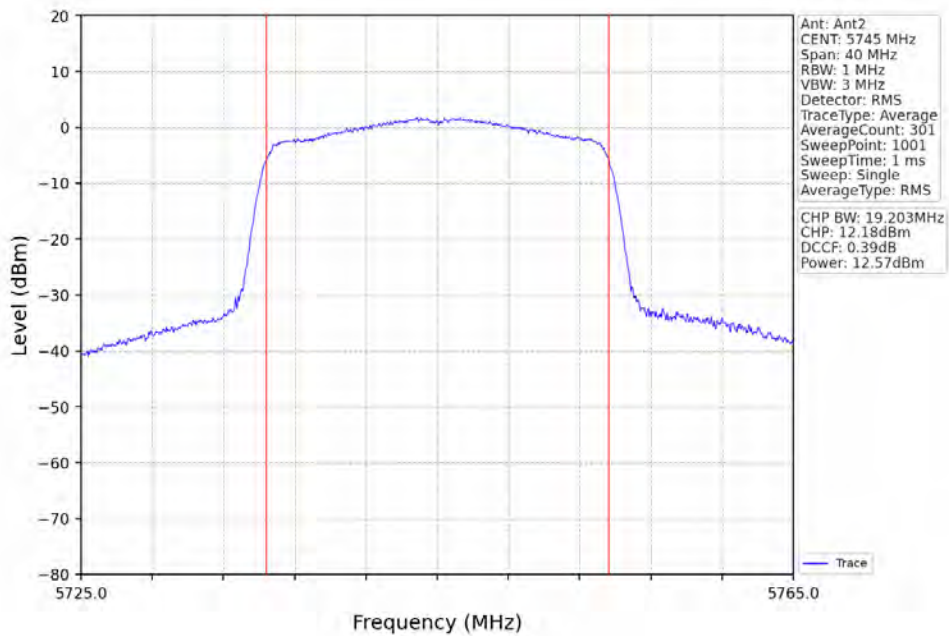


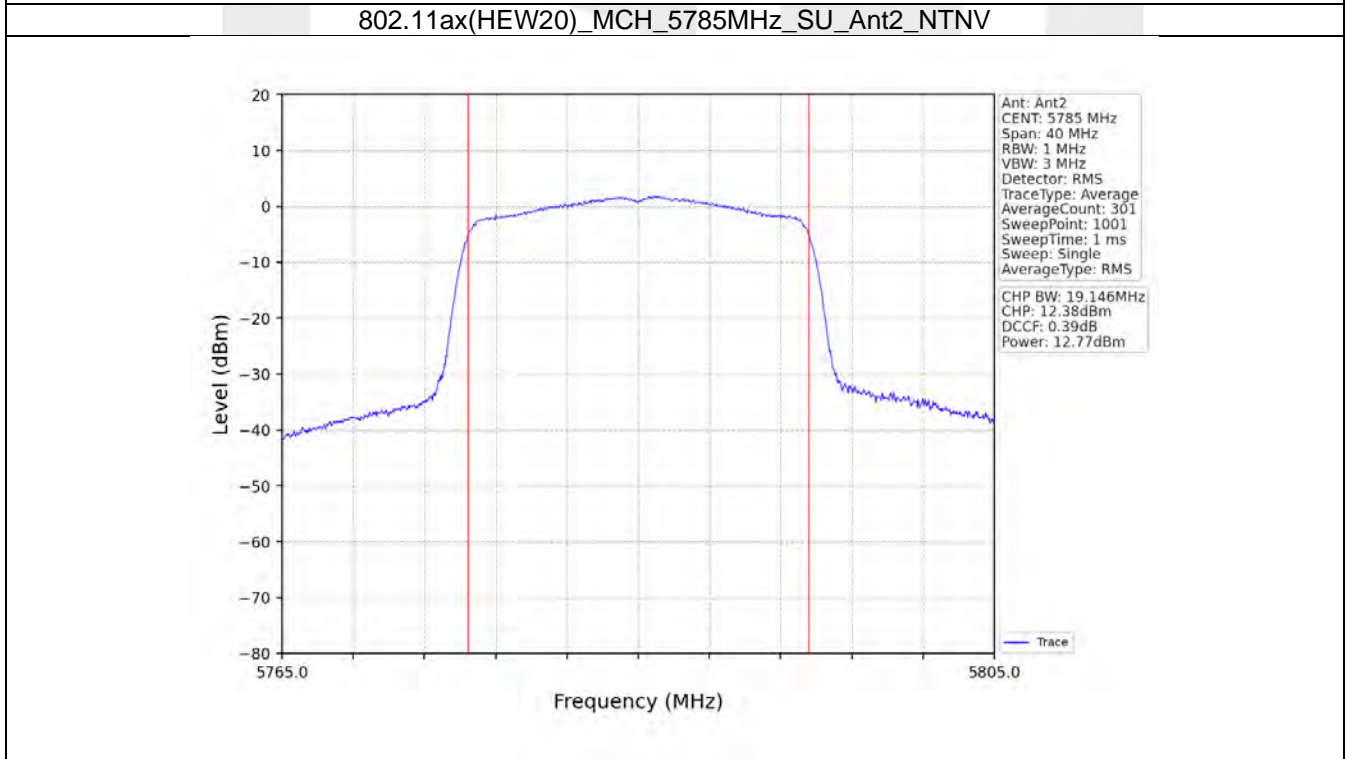
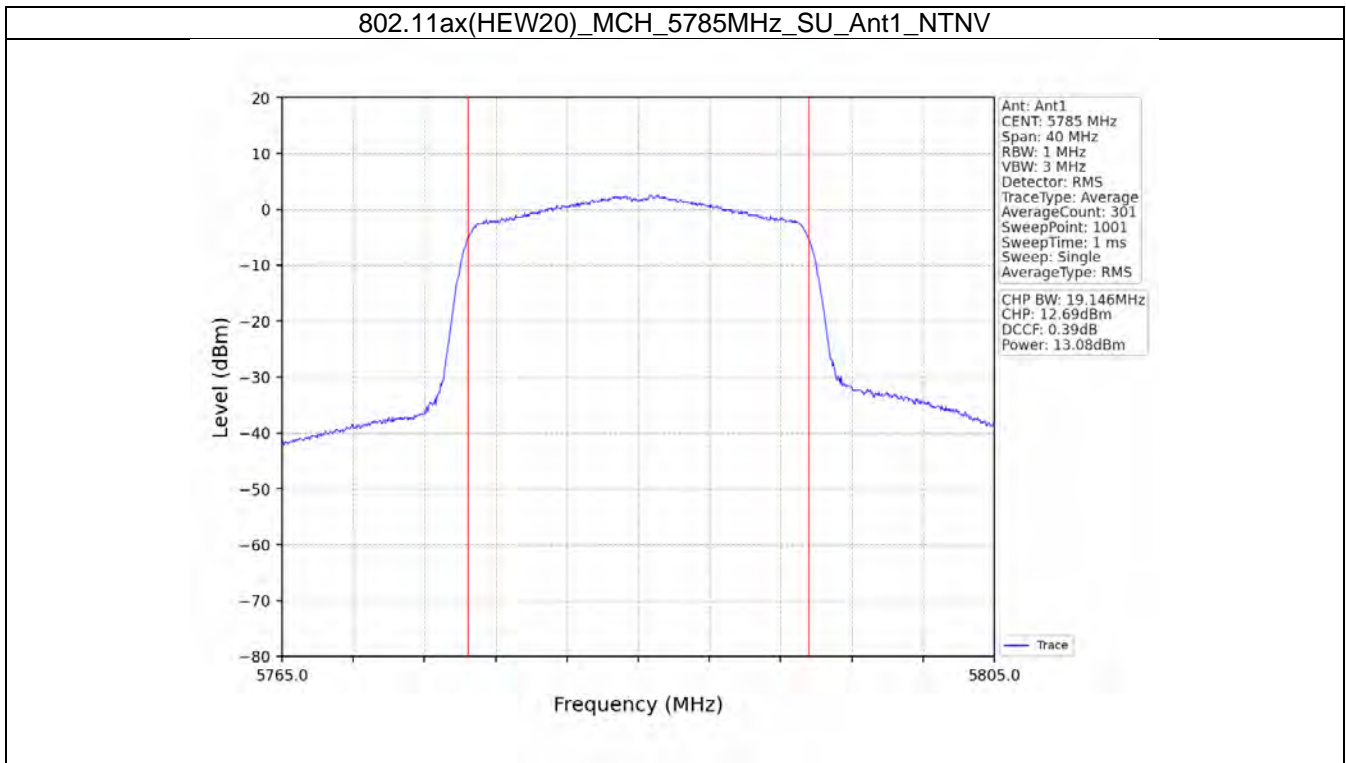


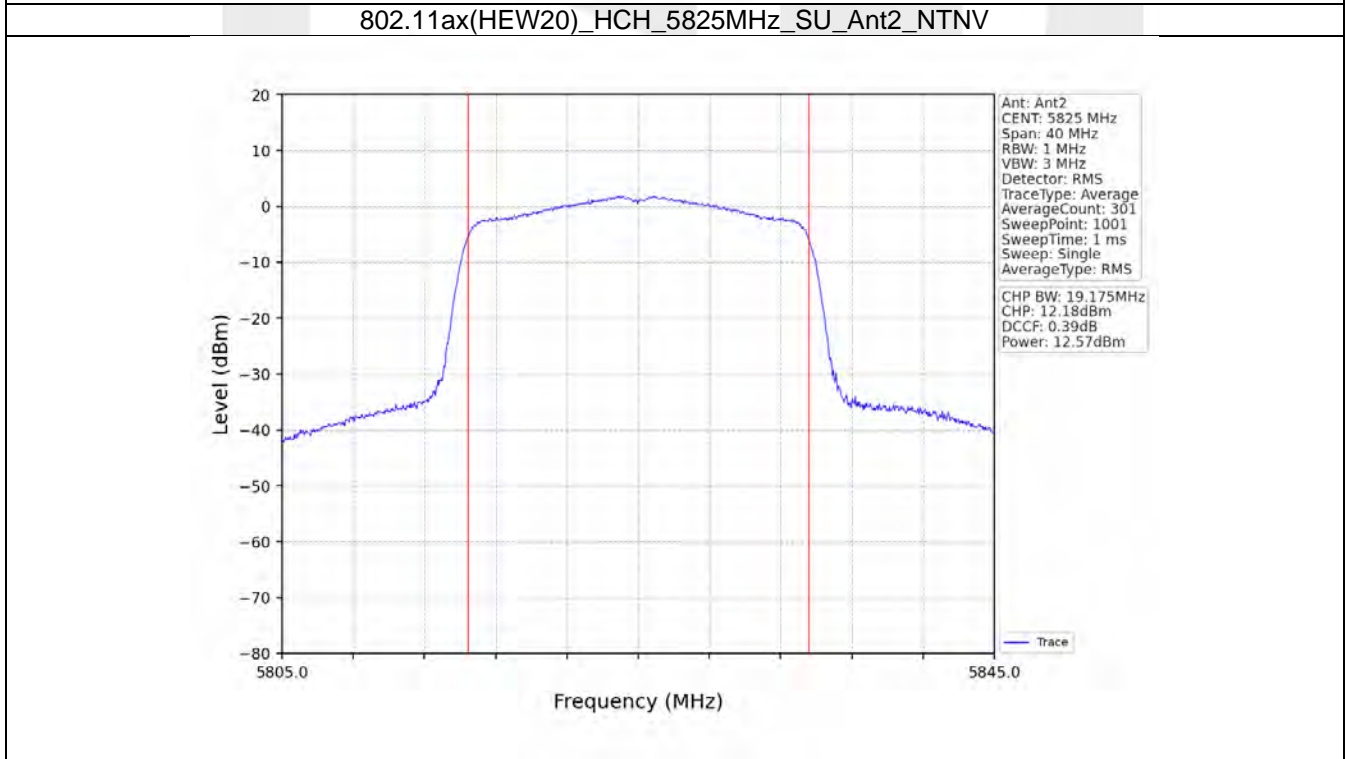
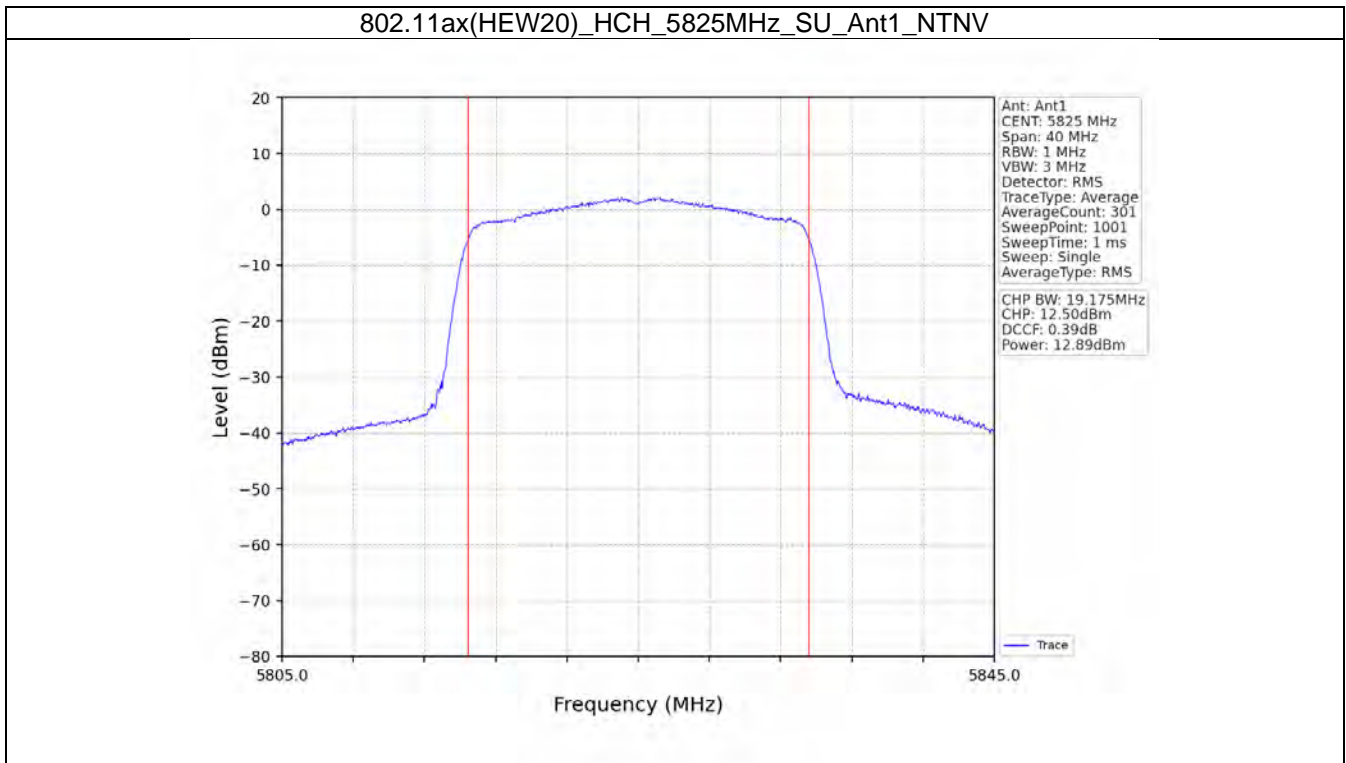
802.11ax(HEW20)_LCH_5745MHz_SU_Ant1_NTNV



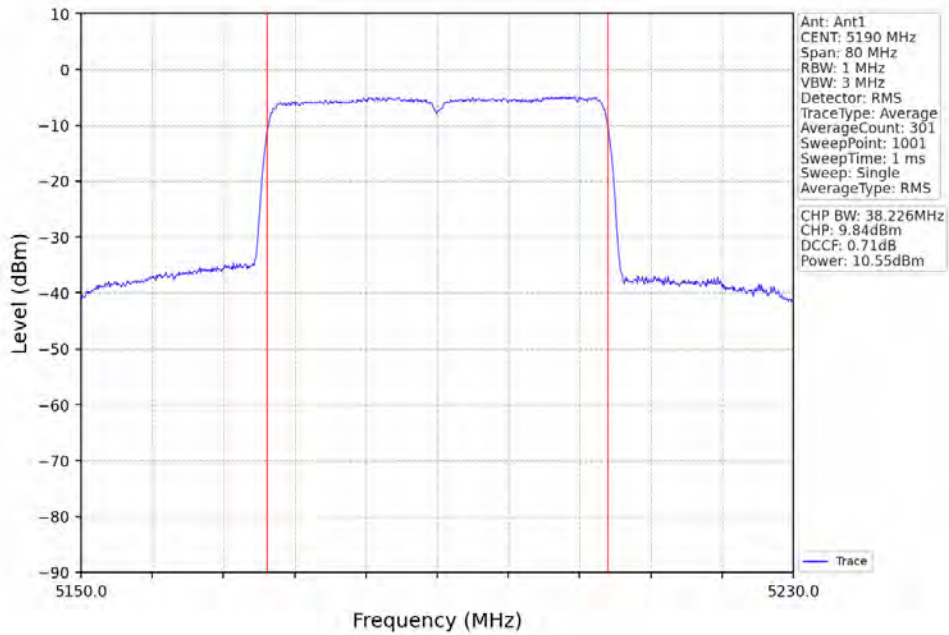
802.11ax(HEW20)_LCH_5745MHz_SU_Ant2_NTNV



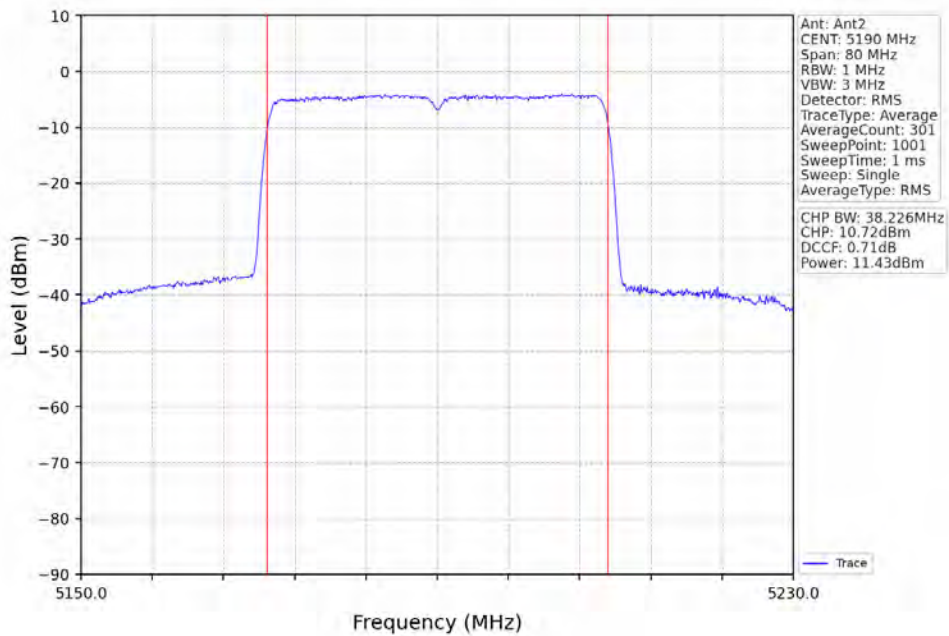


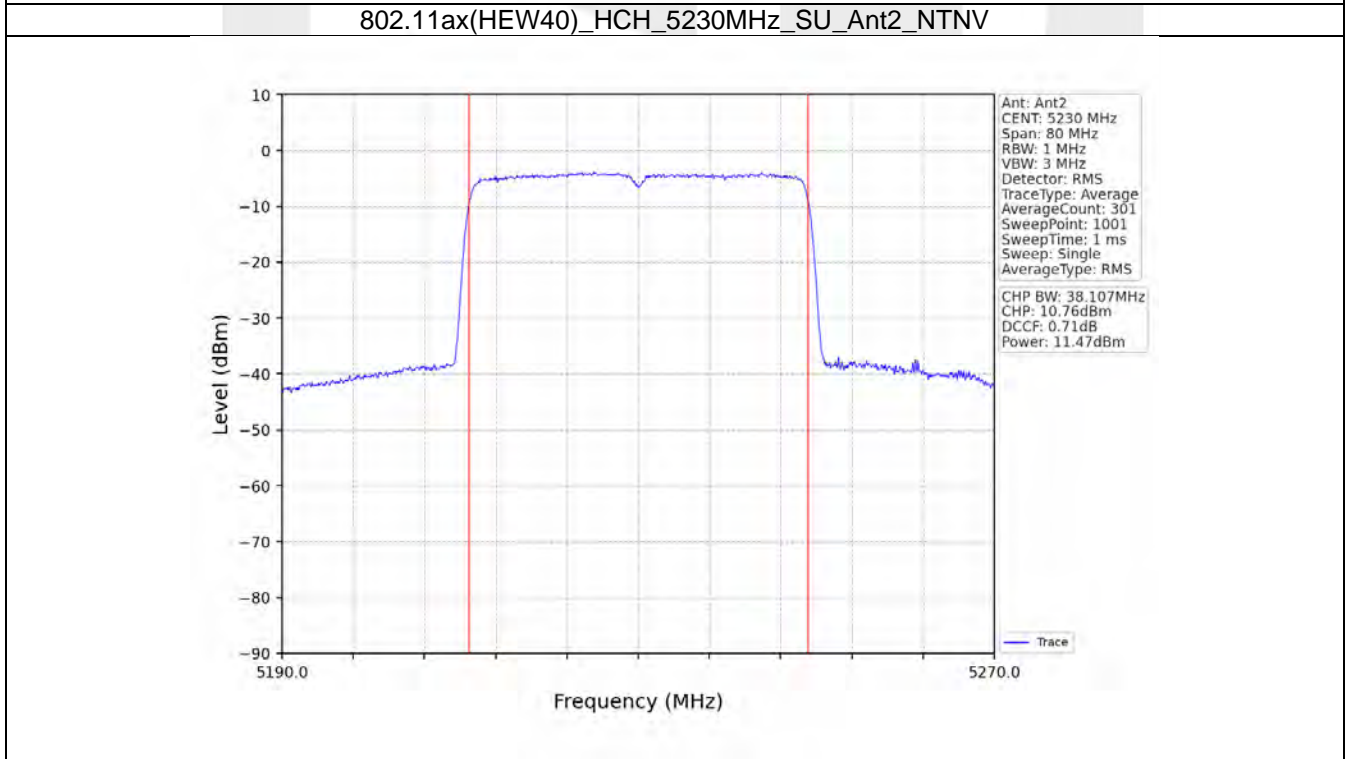
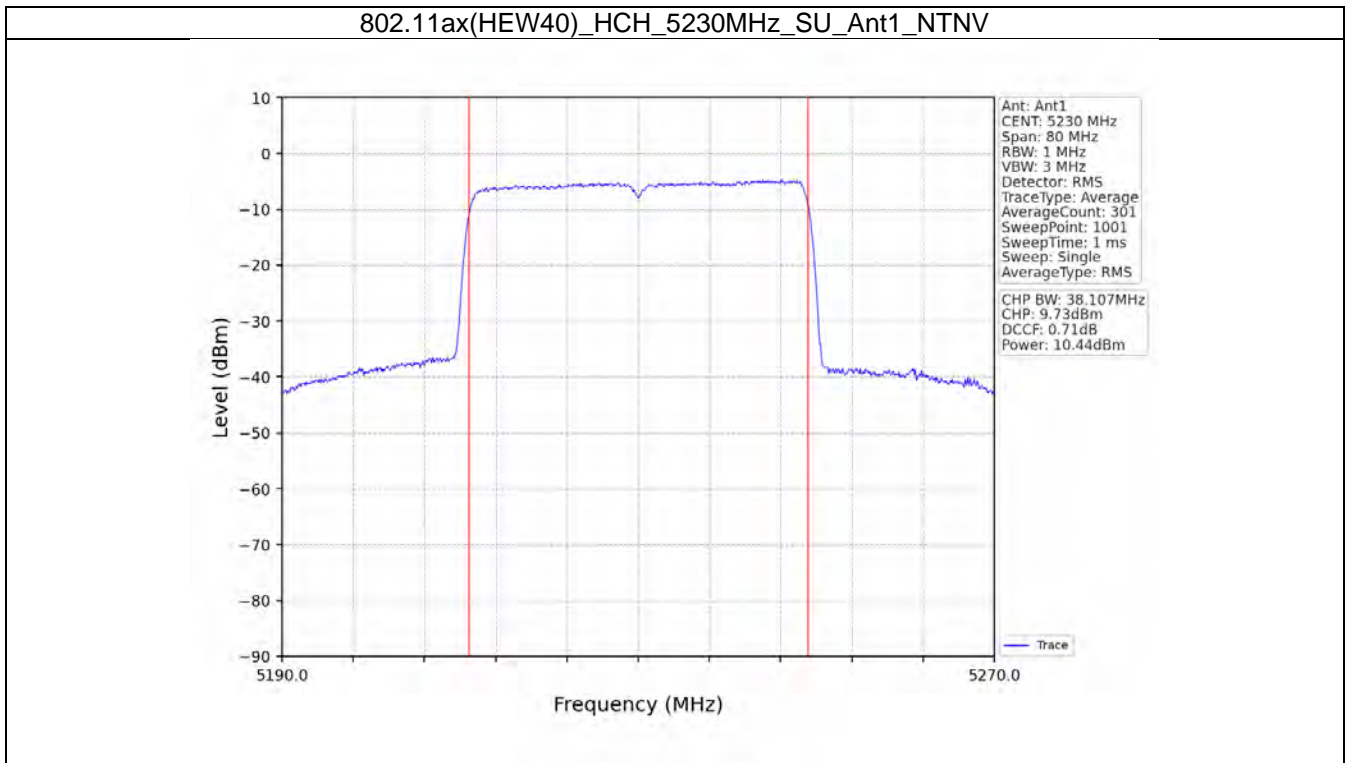


802.11ax(HEW40)_LCH_5190MHz_SU_Ant1_NTNV

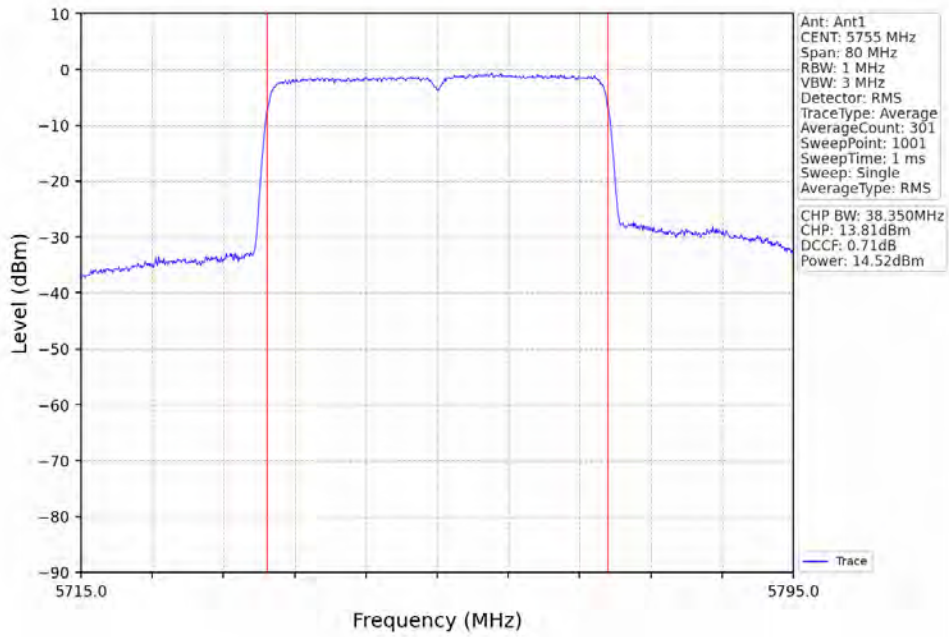


802.11ax(HEW40)_LCH_5190MHz_SU_Ant2_NTNV

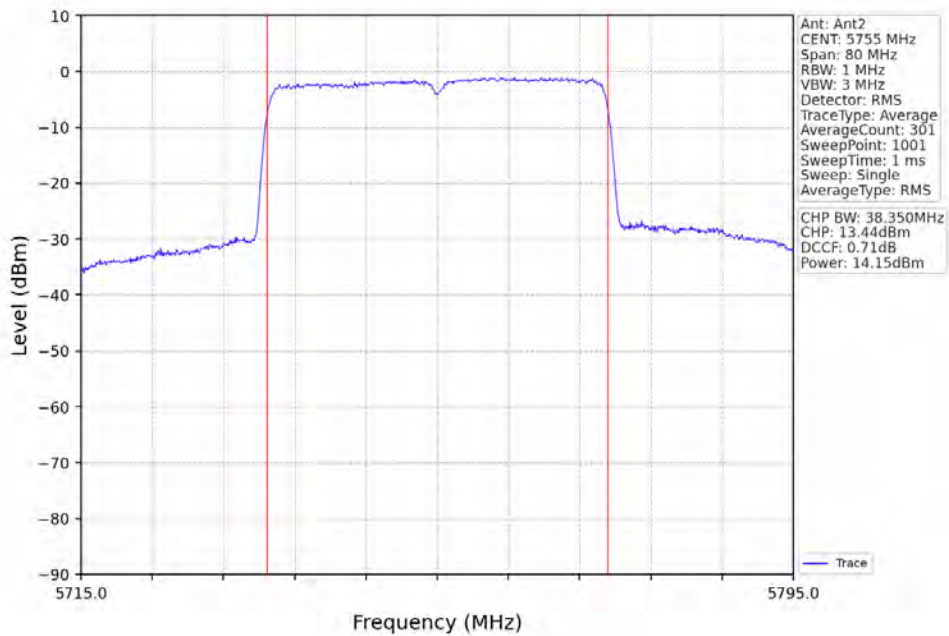


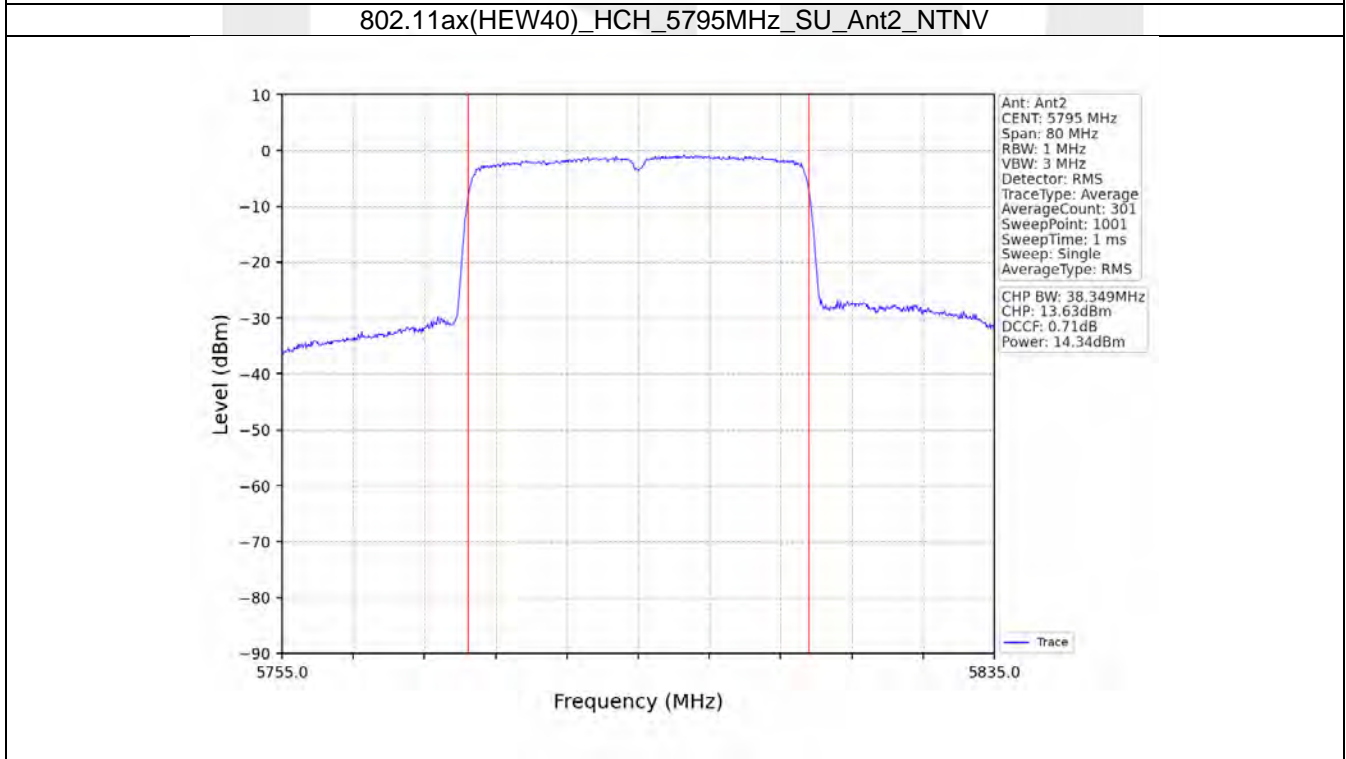
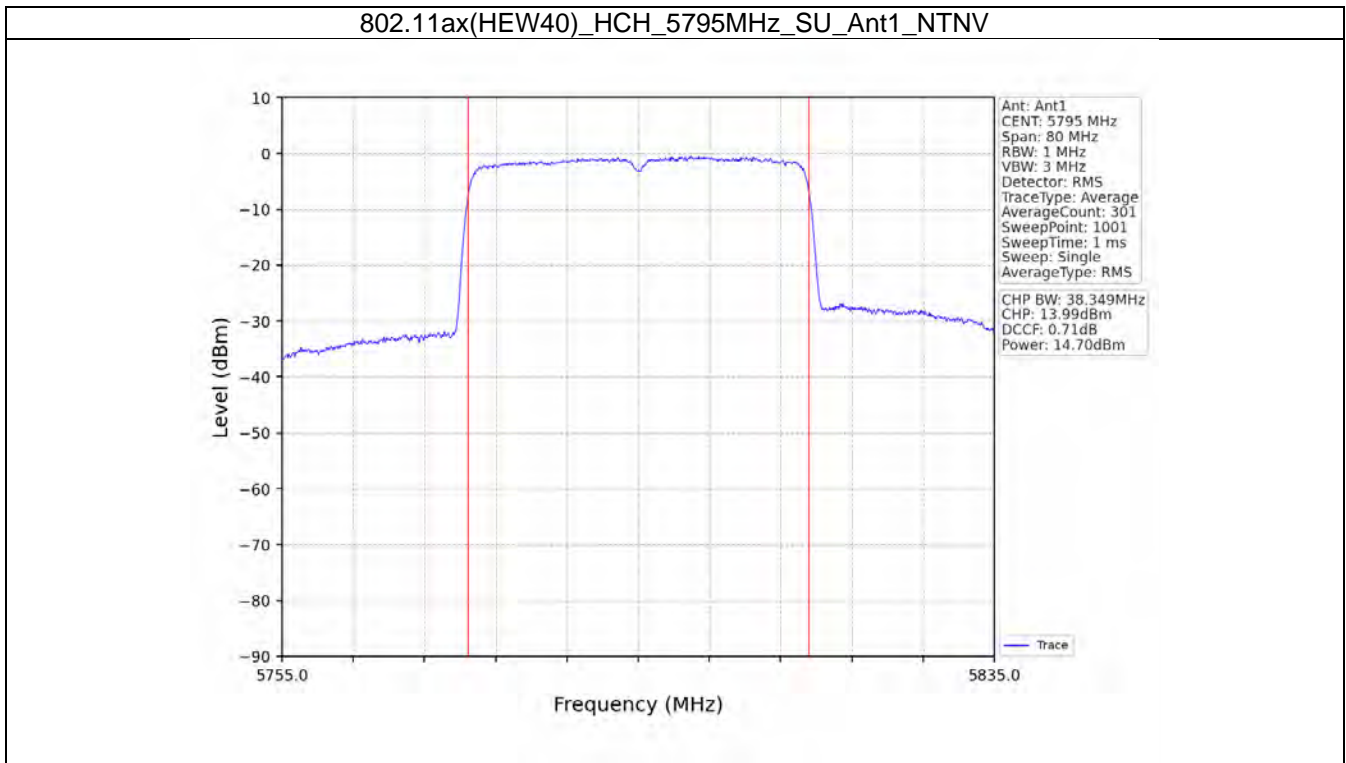


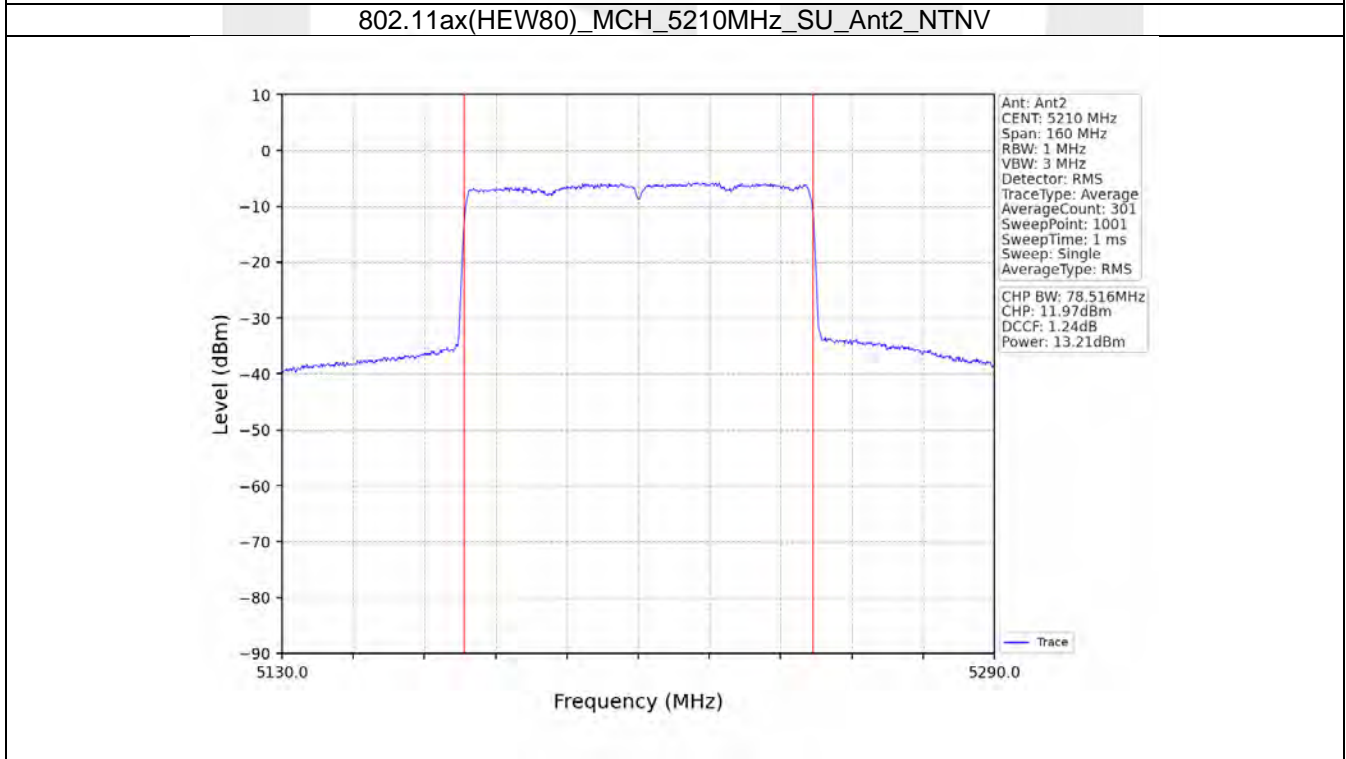
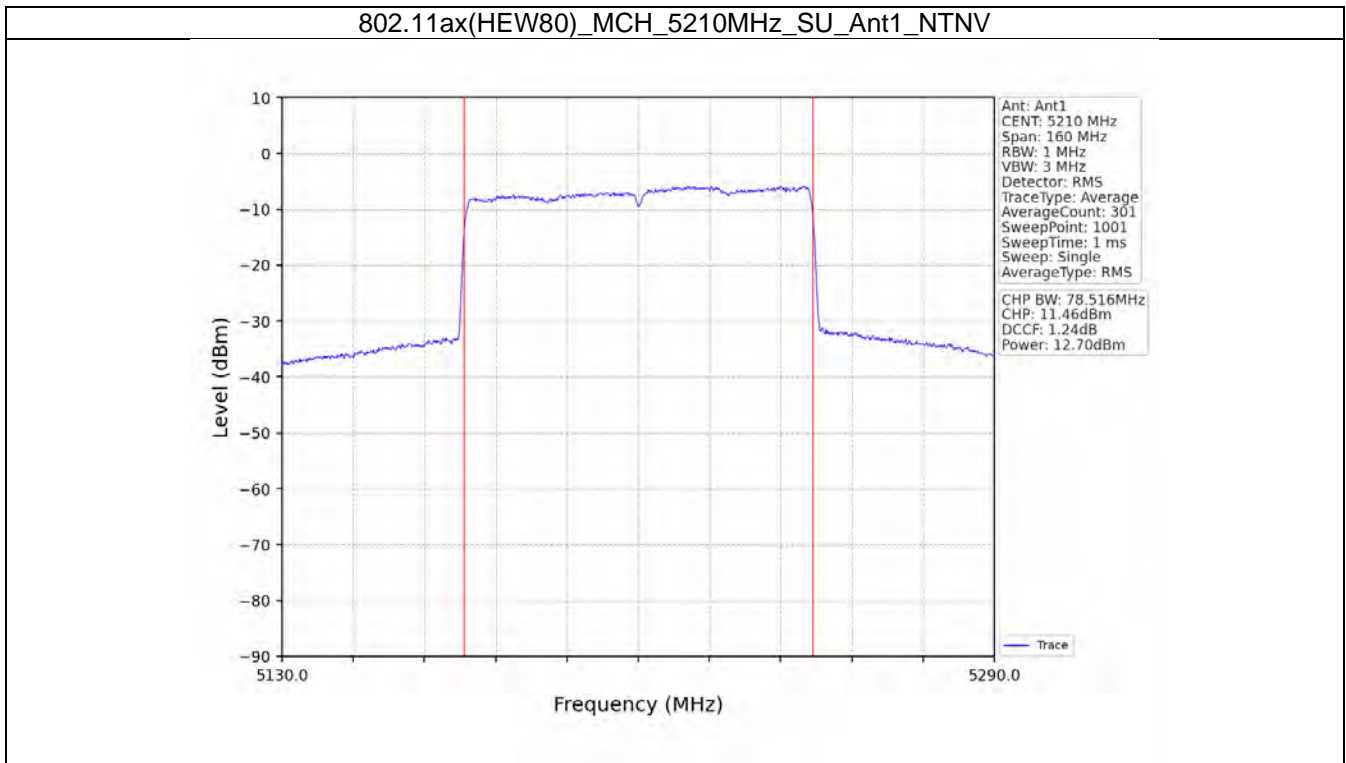
802.11ax(HEW40)_LCH_5755MHz_SU_Ant1_NTNV

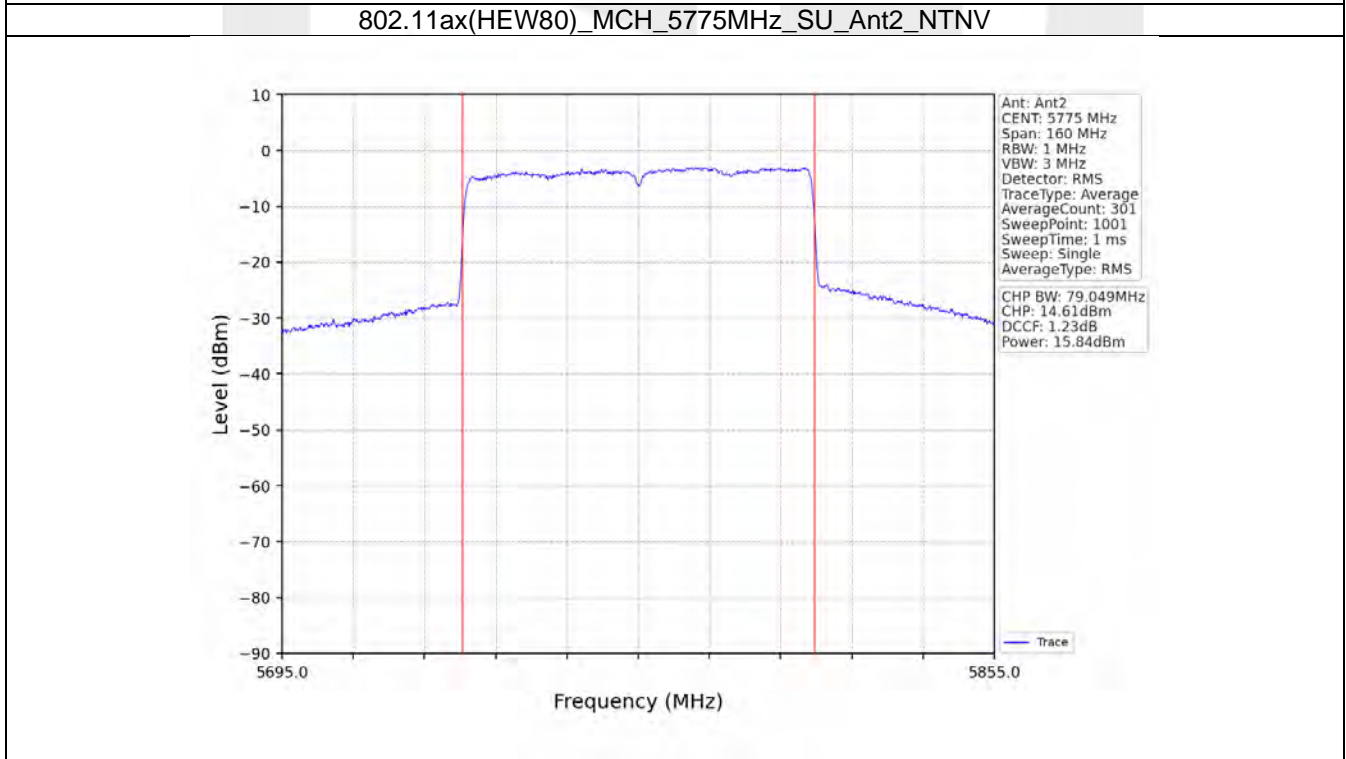
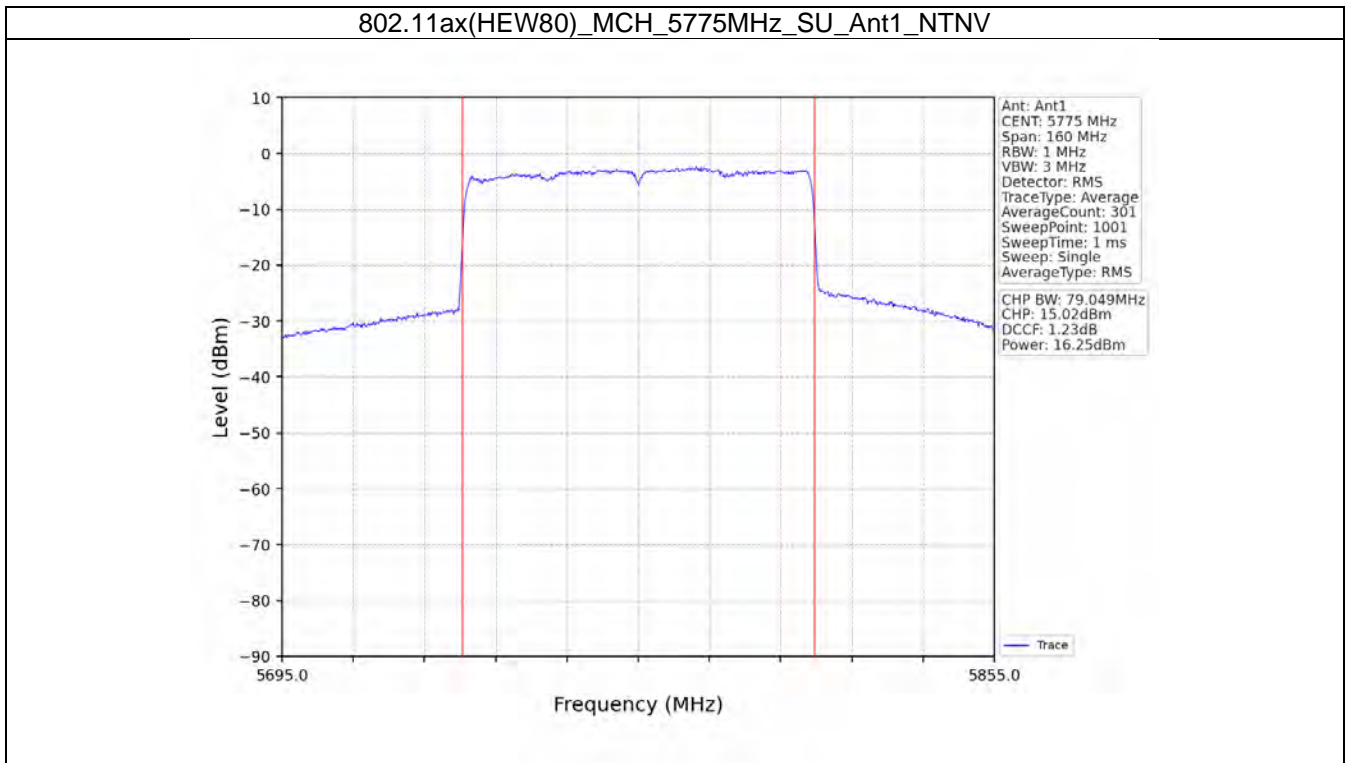


802.11ax(HEW40)_LCH_5755MHz_SU_Ant2_NTNV









4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD-Band1

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)			Verdict
					ANT1	ANT2	Limit	
802.11a	SISO	5180	/	/	-1.42	-1.17	<=11	Pass
		5200	/	/	-1.99	-2.37	<=11	Pass
		5240	/	/	-1.84	-2.04	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	-1.83	-2.67	<=11	Pass
		5200	/	/	-2.41	-3.95	<=11	Pass
		5240	/	/	-2.35	-3.67	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	-4.39	-4.53	<=11	Pass
		5230	/	/	-4.91	-4.78	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	0.59	0.33	<=11	Pass
		5200	/	/	-0.41	-0.79	<=11	Pass
		5240	/	/	-0.22	-0.36	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	-1.24	-1.10	<=11	Pass
		5230	/	/	-1.03	-1.35	<=11	Pass
802.11ac (VHT80)	SISO	5210	/	/	-3.78	-4.32	<=11	Pass
802.11ax (HEW20)	SISO	5180	SU	Left	-0.92	-0.75	<=11	Pass
		5200	SU	Left	-1.97	-2.06	<=11	Pass
		5240	SU	Left	-1.63	-1.63	<=11	Pass
802.11ax (HEW40)	SISO	5190	SU	Left	-4.22	-6.29	<=11	Pass
		5230	SU	Left	-3.91	-6.37	<=11	Pass
802.11ax (HEW80)	SISO	5210	SU	Left	-4.58	-7.58	<=11	Pass

4.1.2 PSD-Band1(MIMO)

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)		Verdict
					MIMO	Limit	
802.11n (HT20)	MIMO	5180	/	/	0.78	<=11	Pass
		5200	/	/	-0.10	<=11	Pass
		5240	/	/	0.05	<=11	Pass
802.11n (HT40)	MIMO	5190	/	/	-1.45	<=11	Pass
		5230	/	/	-1.83	<=11	Pass
802.11ac (VHT20)	MIMO	5180	/	/	3.47	<=11	Pass
		5200	/	/	2.41	<=11	Pass
		5240	/	/	2.72	<=11	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1.84	<=11	Pass
		5230	/	/	1.82	<=11	Pass
802.11ac (VHT80)	MIMO	5210	/	/	-1.03	<=11	Pass
802.11ax (HEW20)	MIMO	5180	SU	Left	2.18	<=11	Pass
		5200	SU	Left	1.00	<=11	Pass
		5240	SU	Left	1.38	<=11	Pass
802.11ax (HEW40)	MIMO	5190	SU	Left	-2.12	<=11	Pass
		5230	SU	Left	-1.96	<=11	Pass
802.11ax (HEW80)	MIMO	5210	SU	Left	-2.82	<=11	Pass

Note1: U-NII-1 Antenna Gain: Ant1: 2.94dBi; Ant2: 2.86dBi, Correlated antenna gain=5.87dBi.

4.1.3 PSD-Band3

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)			Verdict
					ANT1	ANT2	Limit	
802.11a	SISO	5745	/	/	-0.01	-0.41	<=30	Pass
		5785	/	/	0.49	-0.17	<=30	Pass
		5825	/	/	0.11	-0.44	<=30	Pass
802.11n (HT20)	SISO	5745	/	/	4.87	-2.17	<=30	Pass
		5785	/	/	5.52	-1.81	<=30	Pass
		5825	/	/	5.00	-2.05	<=30	Pass
802.11n (HT40)	SISO	5755	/	/	-2.47	-3.16	<=30	Pass
		5795	/	/	-2.10	-2.89	<=30	Pass
802.11ac (VHT20)	SISO	5745	/	/	-1.53	0.94	<=30	Pass
		5785	/	/	-1.21	1.36	<=30	Pass
		5825	/	/	-1.43	1.28	<=30	Pass
802.11ac (VHT40)	SISO	5755	/	/	-2.68	-0.14	<=30	Pass
		5795	/	/	-2.47	0.40	<=30	Pass
802.11ac (VHT80)	SISO	5775	/	/	-2.75	-3.04	<=30	Pass
802.11ax (HEW20)	SISO	5745	SU	Left	-0.43	-0.94	<=30	Pass
		5785	SU	Left	0.07	-0.63	<=30	Pass
		5825	SU	Left	-0.20	-0.68	<=30	Pass
802.11ax (HEW40)	SISO	5755	SU	Left	-3.08	-5.29	<=30	Pass
		5795	SU	Left	-2.84	-5.00	<=30	Pass
802.11ax (HEW80)	SISO	5775	SU	Left	-3.92	-6.42	<=30	Pass

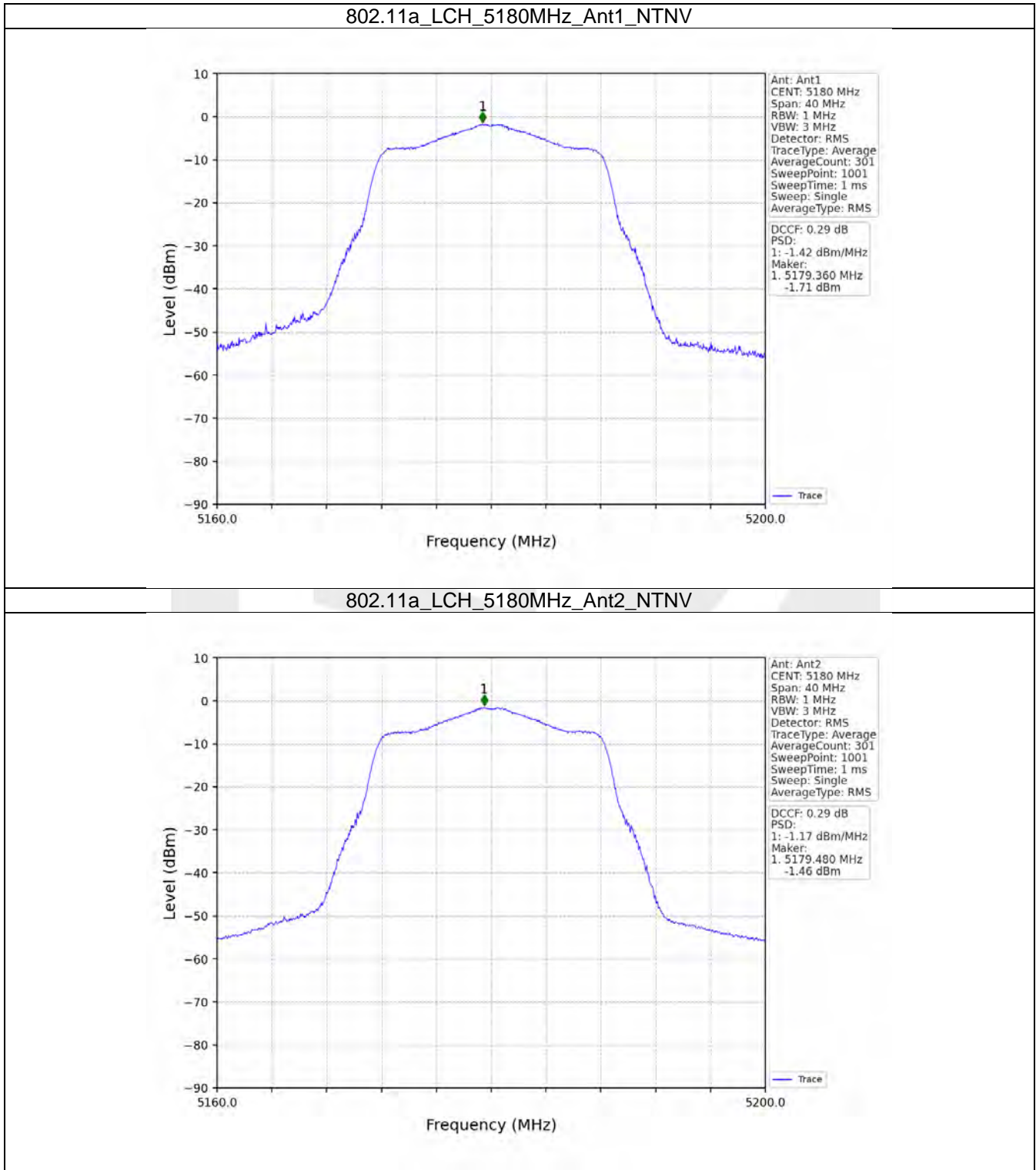
4.1.3 PSD-Band3(MIMO)

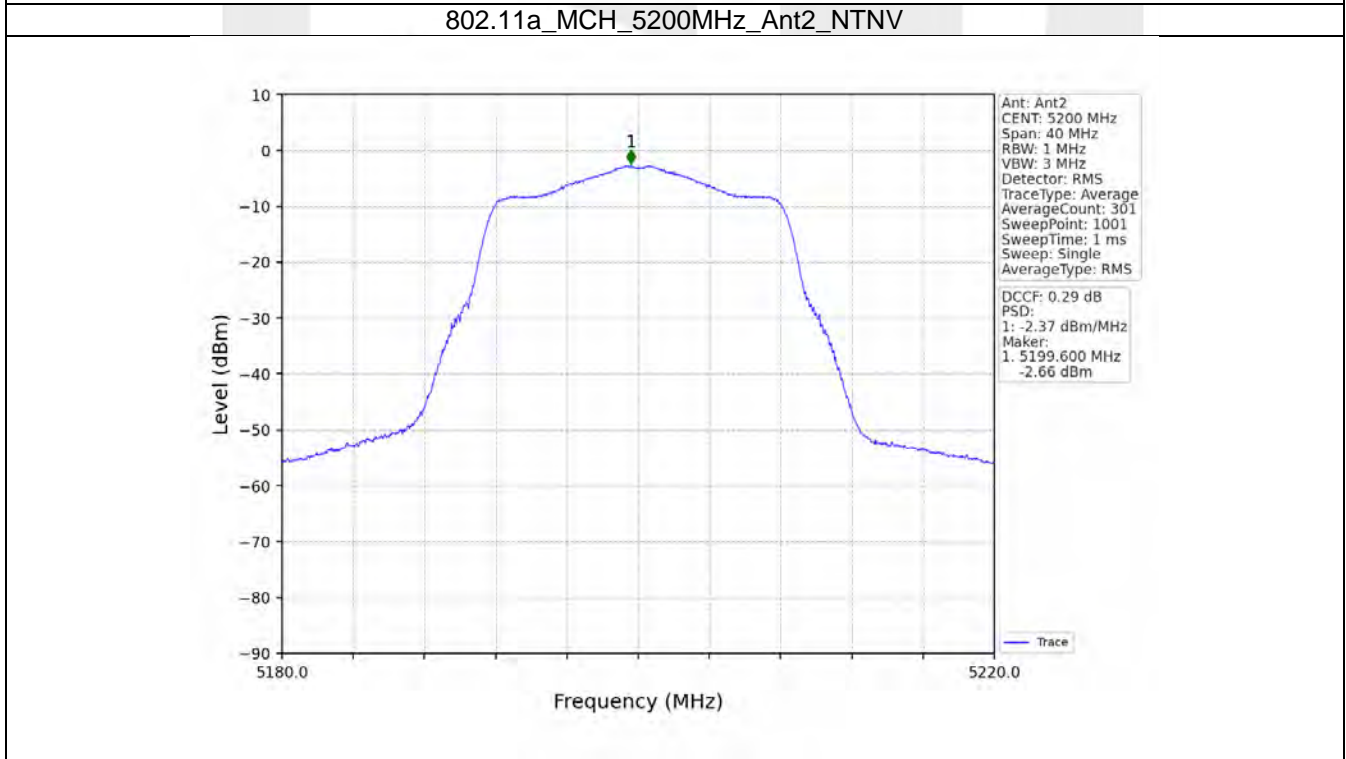
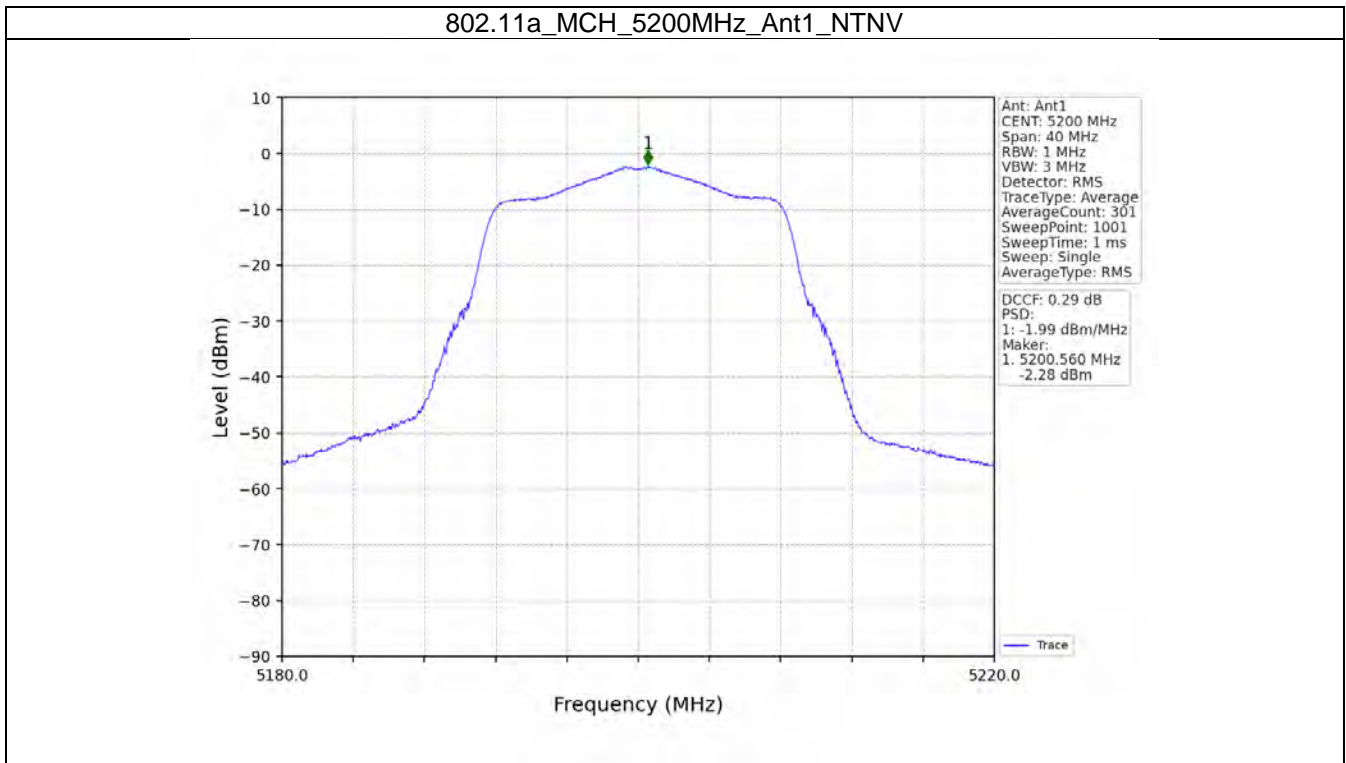
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)		Verdict
					MIMO	Limit	
802.11n (HT20)	MIMO	5745	/	/	5.65	<=30	Pass
		5785	/	/	6.26	<=30	Pass
		5825	/	/	5.78	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	0.21	<=30	Pass
		5795	/	/	0.53	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	2.89	<=30	Pass
		5785	/	/	3.27	<=30	Pass
		5825	/	/	3.14	<=30	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1.78	<=30	Pass
		5795	/	/	2.21	<=30	Pass
802.11ac (VHT80)	MIMO	5775	/	/	0.12	<=30	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	2.33	<=30	Pass
		5785	SU	/	2.74	<=30	Pass
		5825	SU	/	2.58	<=30	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	-1.04	<=30	Pass
		5795	SU	/	-0.78	<=30	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	-1.98	<=30	Pass

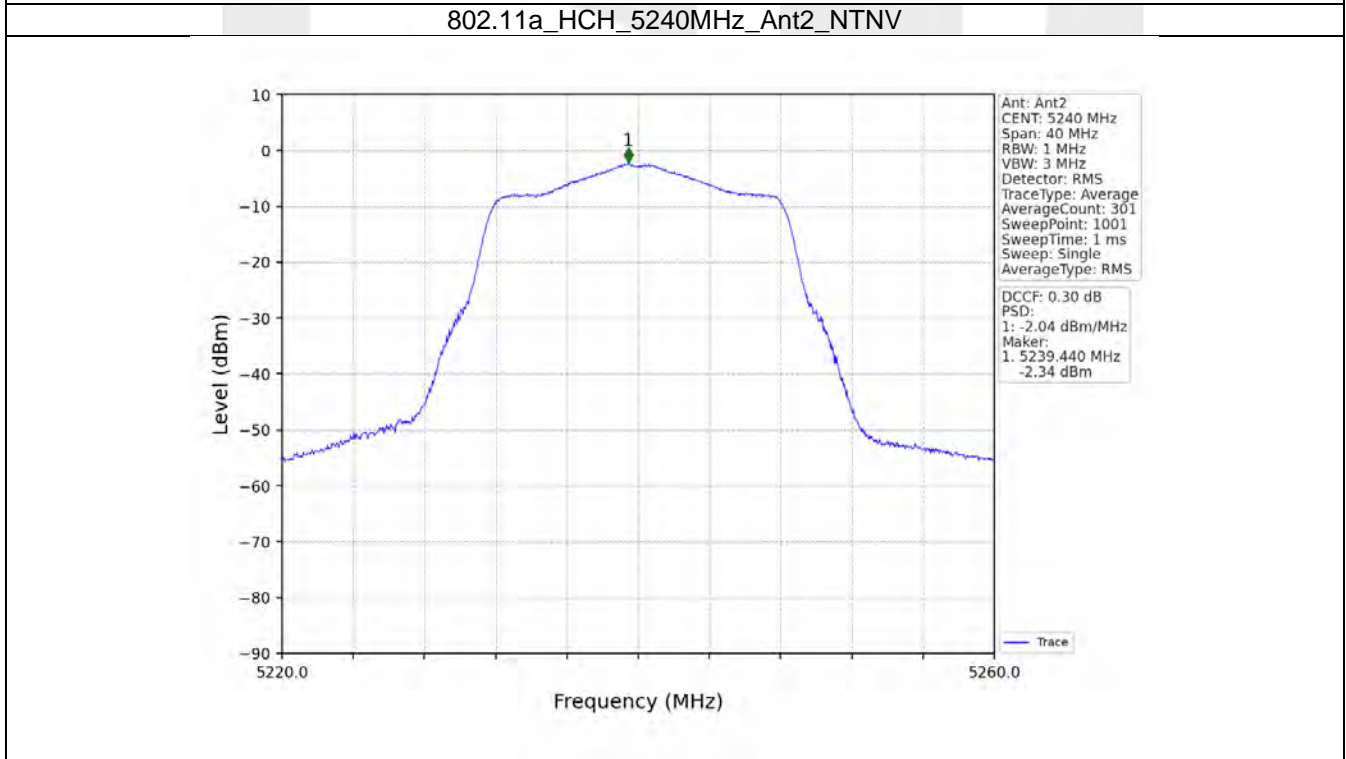
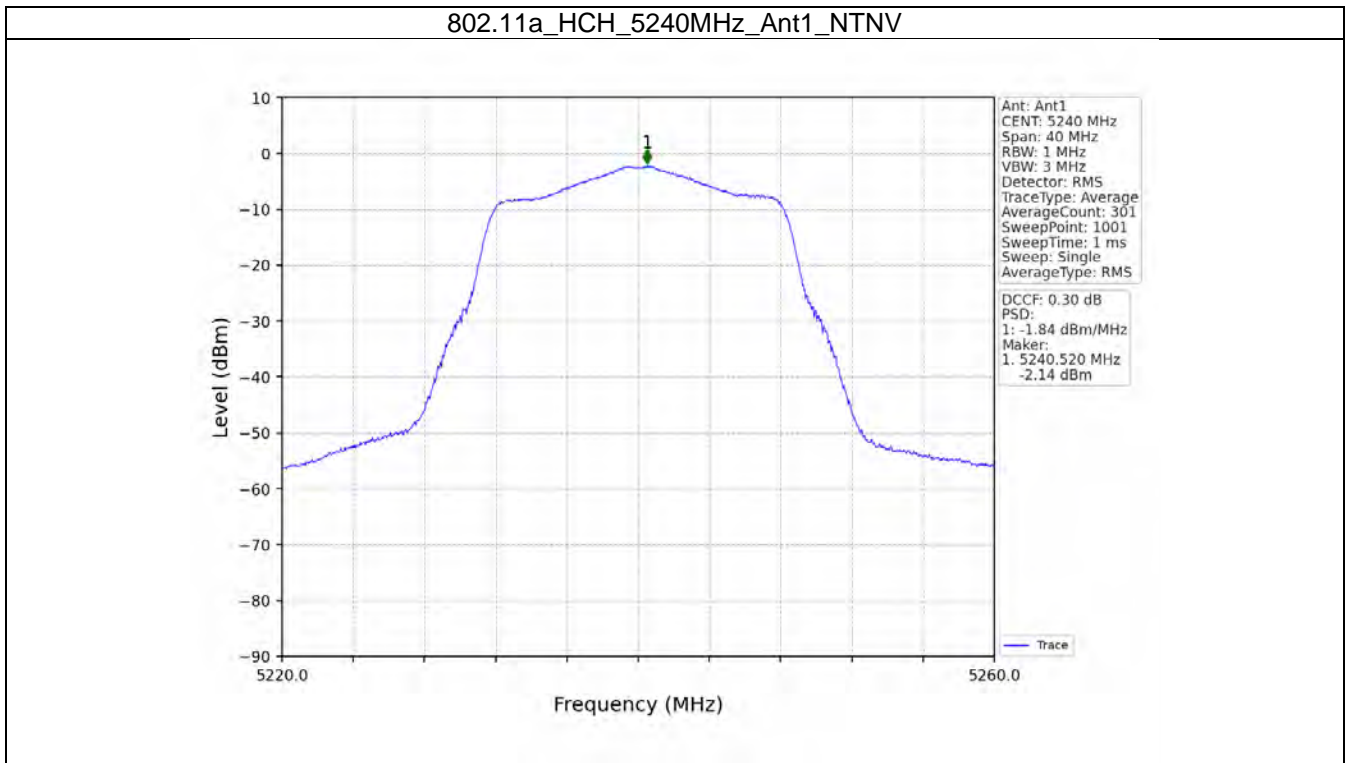
Note1: U-NII-3 Antenna Gain: Ant1: 2.77dBi; Ant2: 2.95dBi, Correlated antenna gain=5.92dBi.

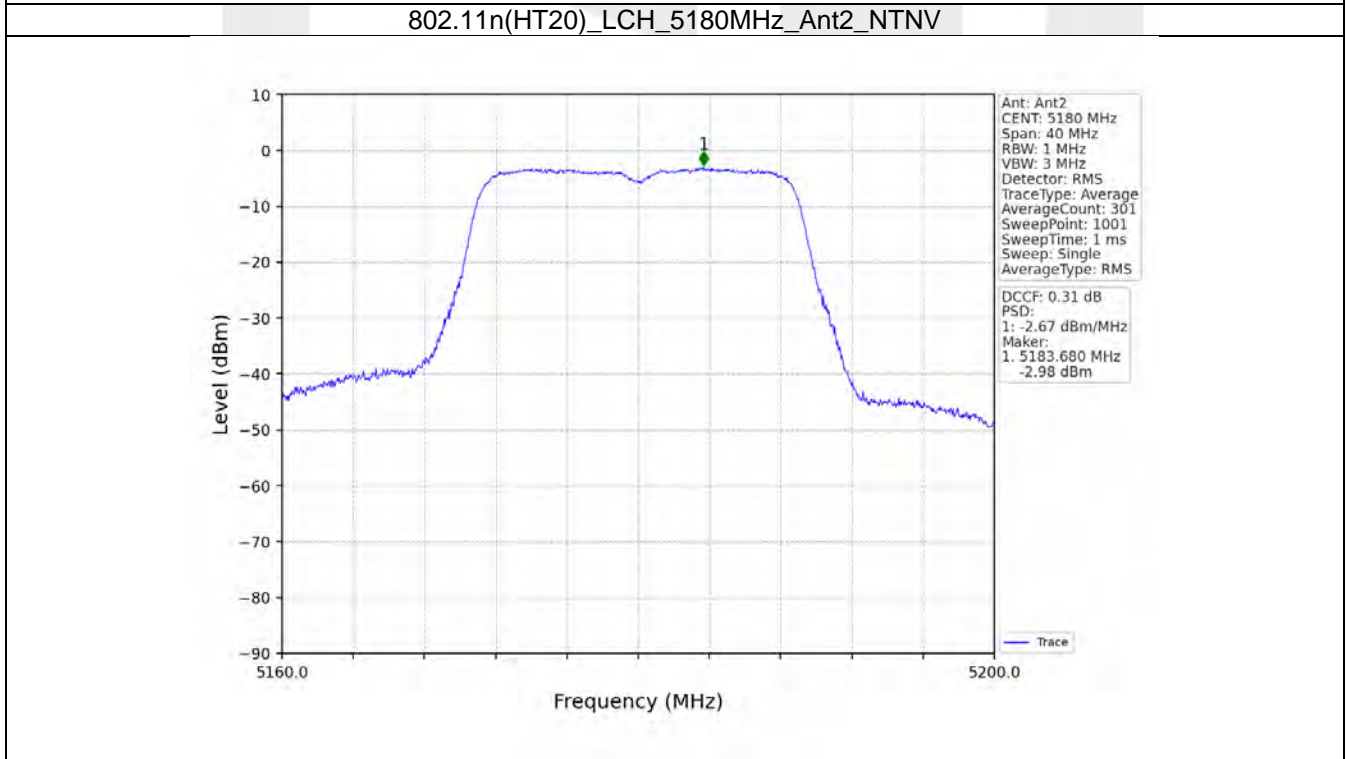
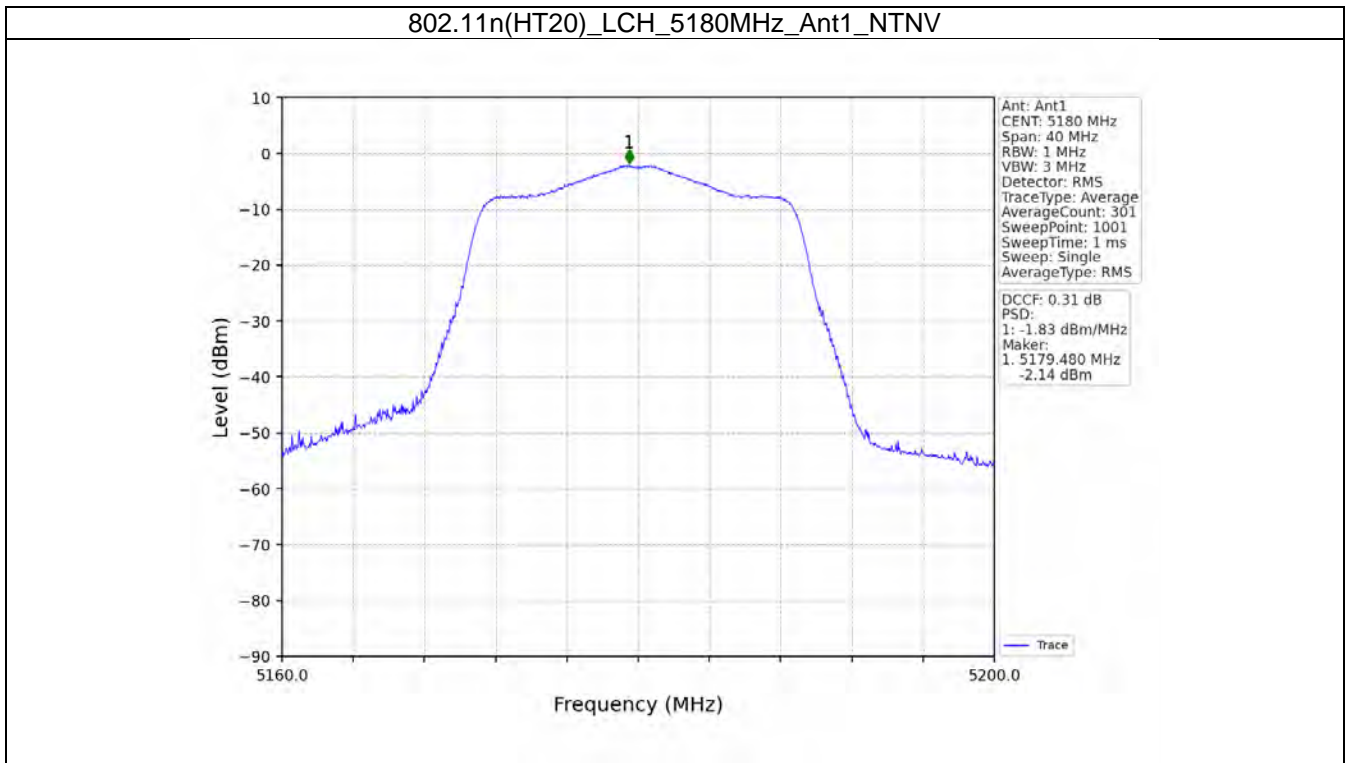
4.2 Test Graph

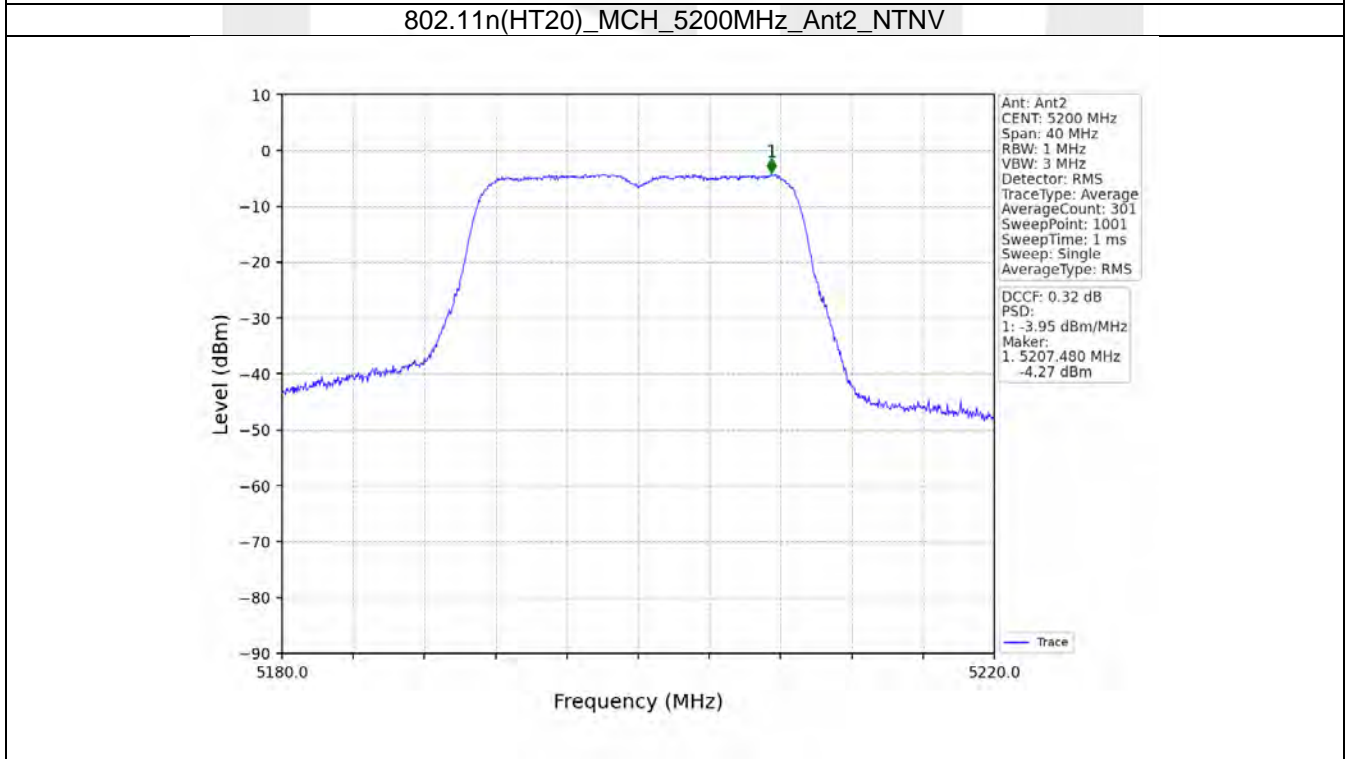
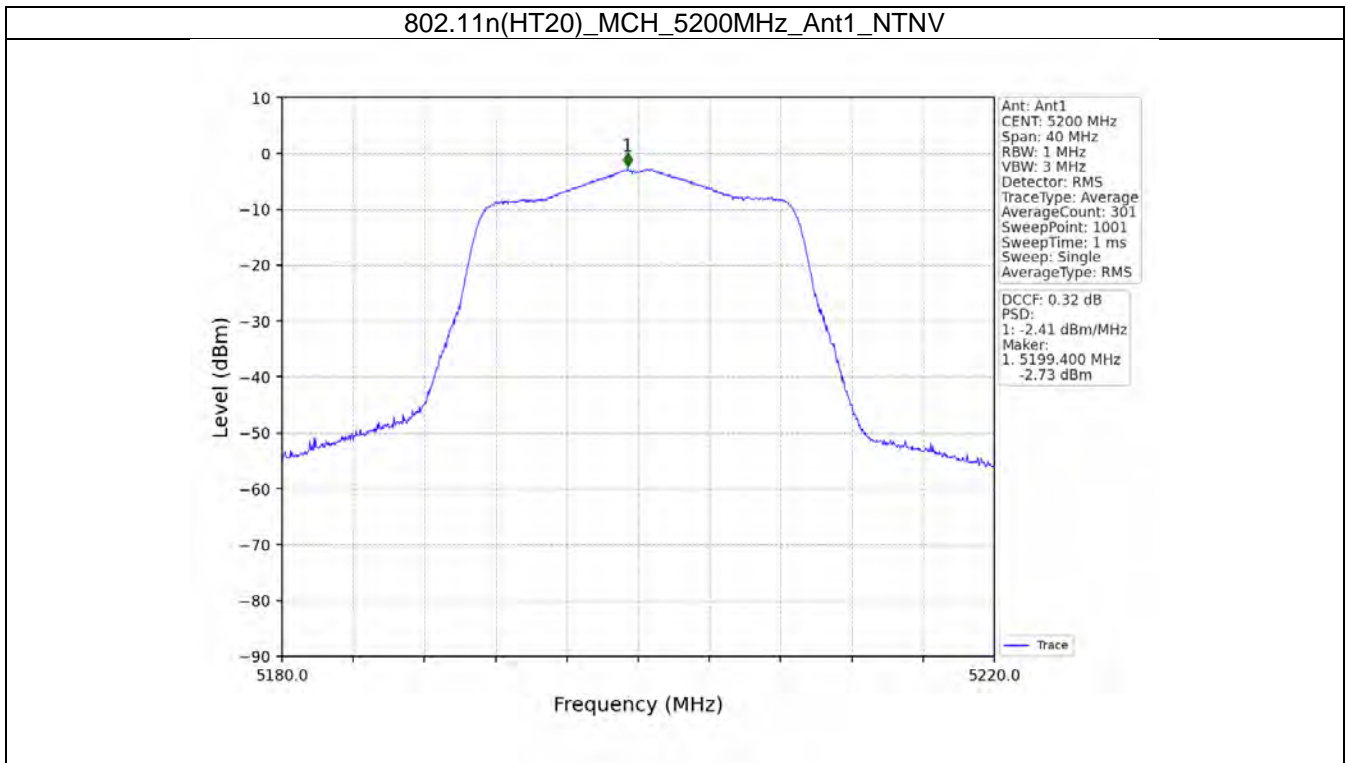
4.2.1 PSD

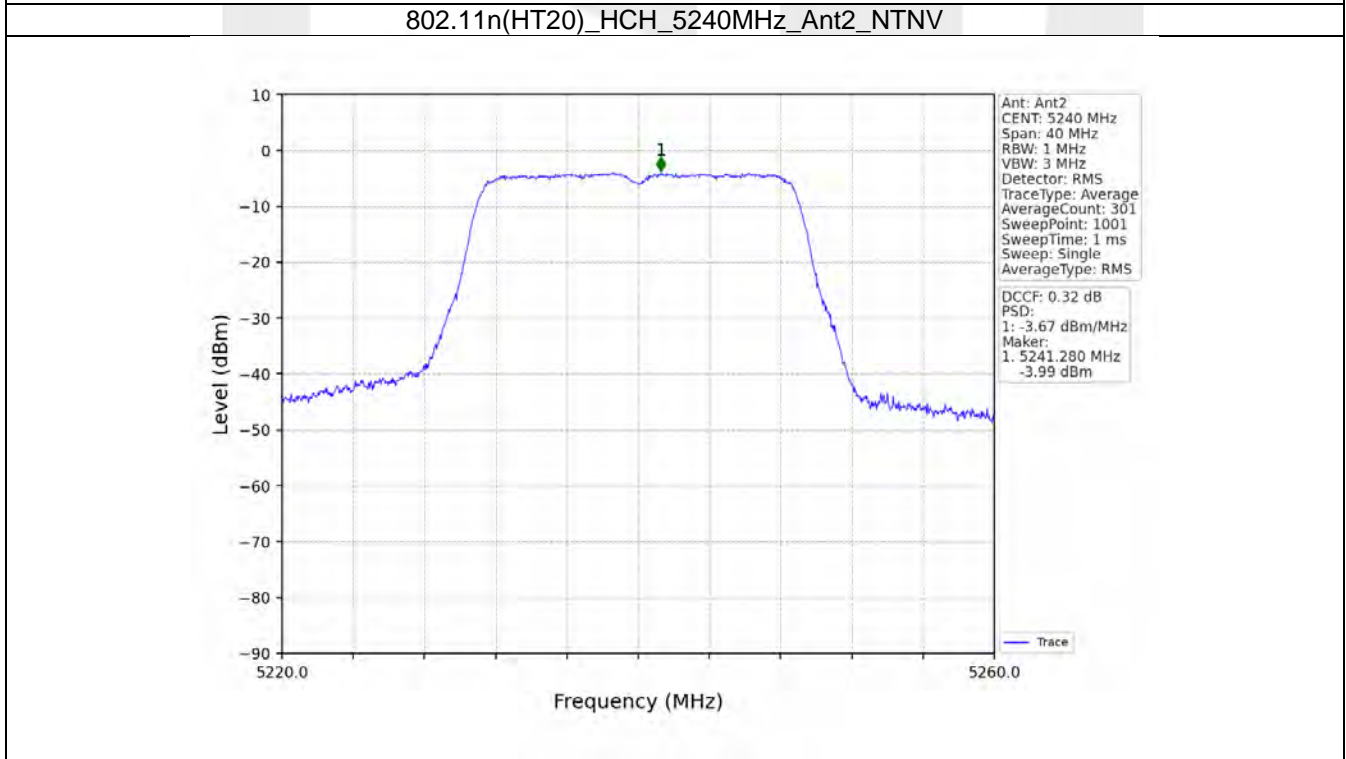
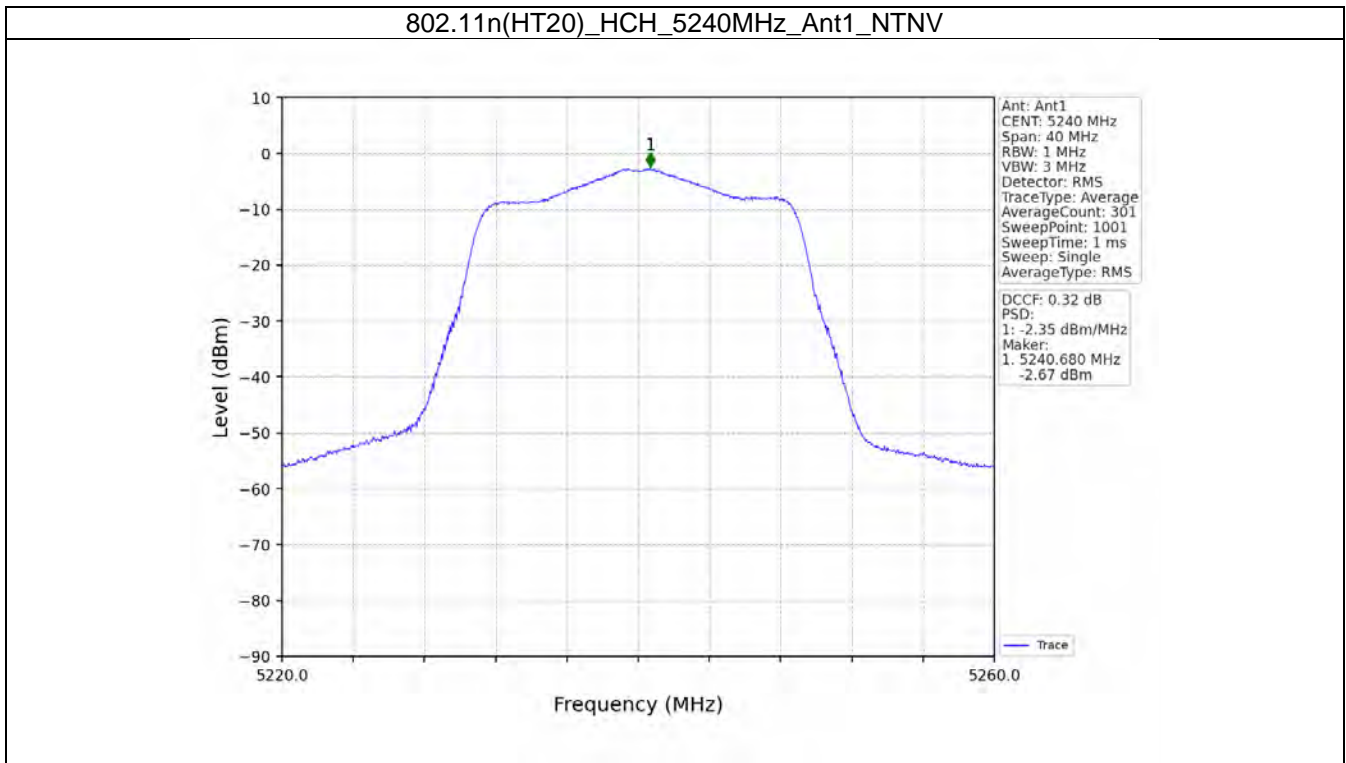


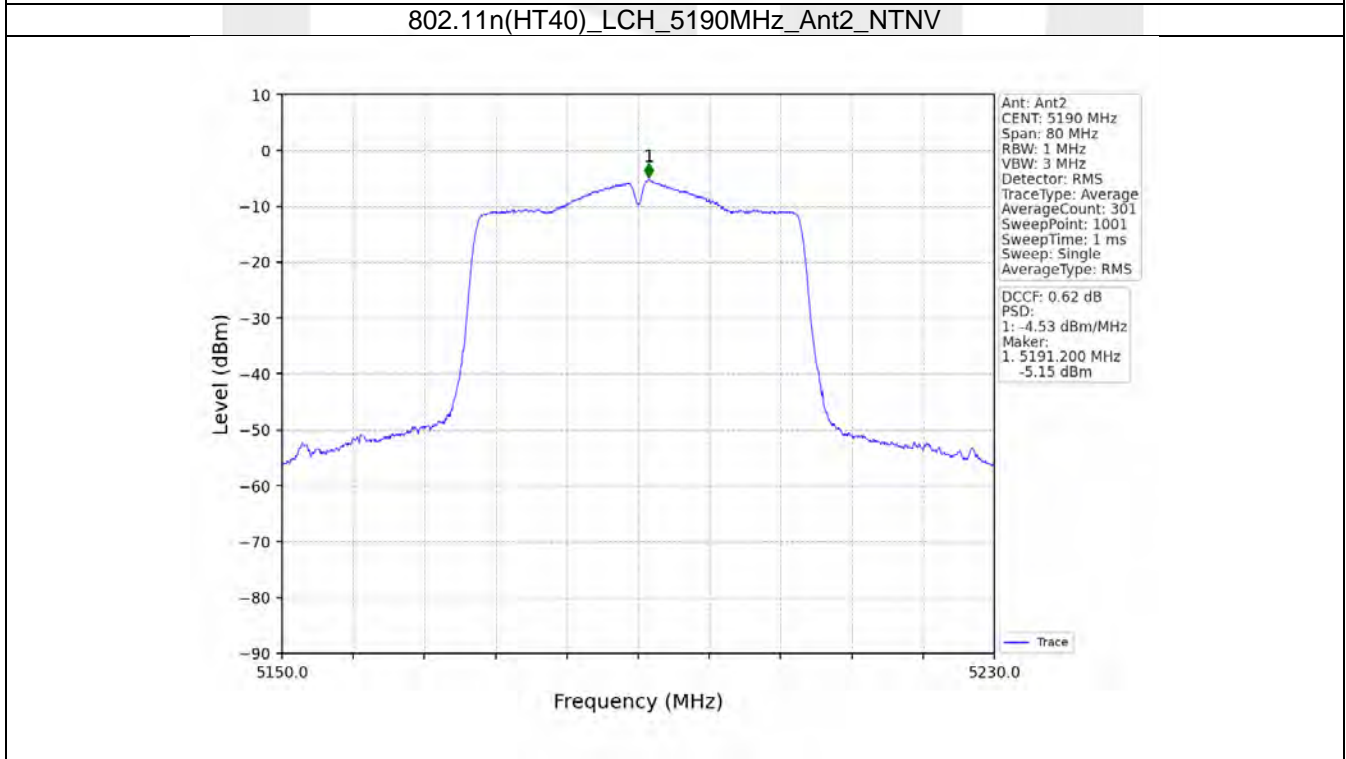
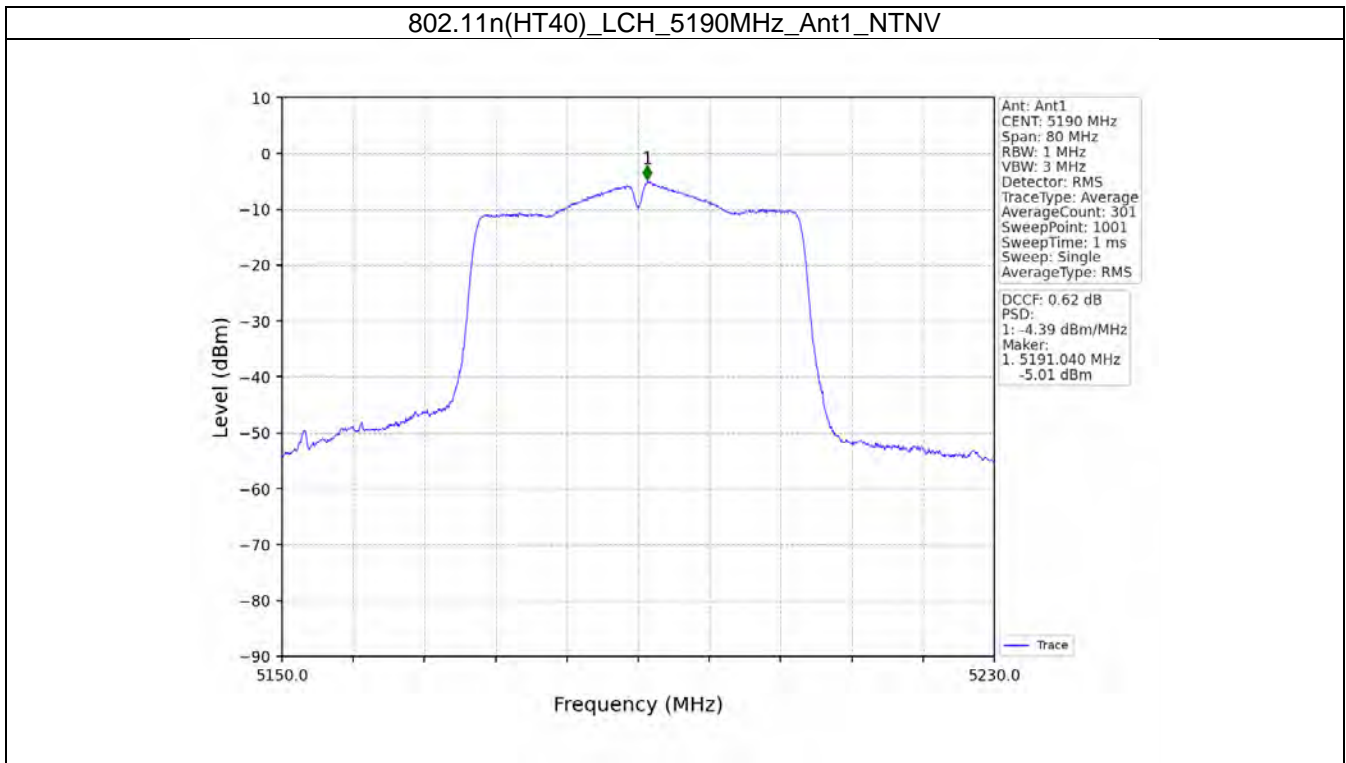




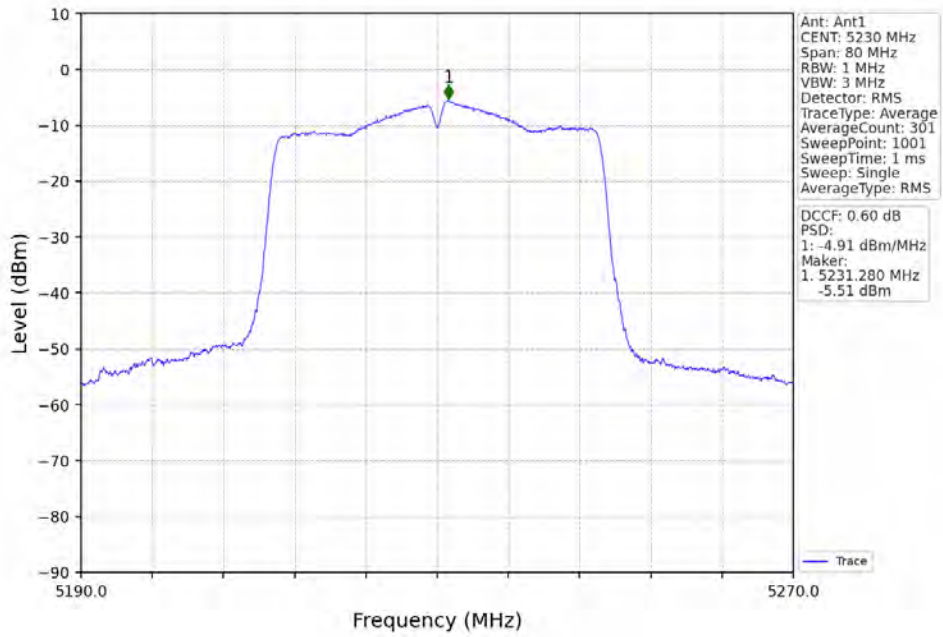




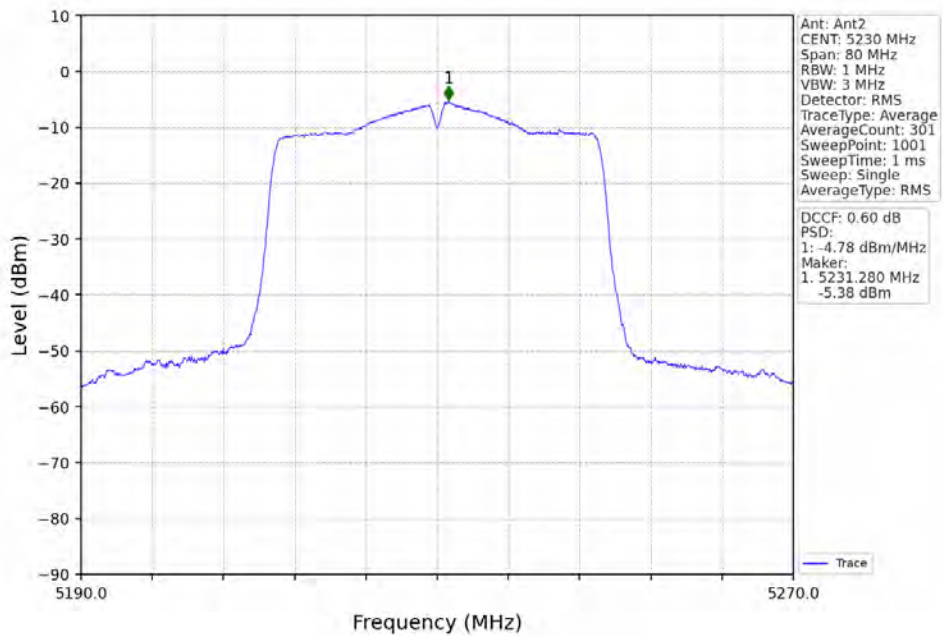




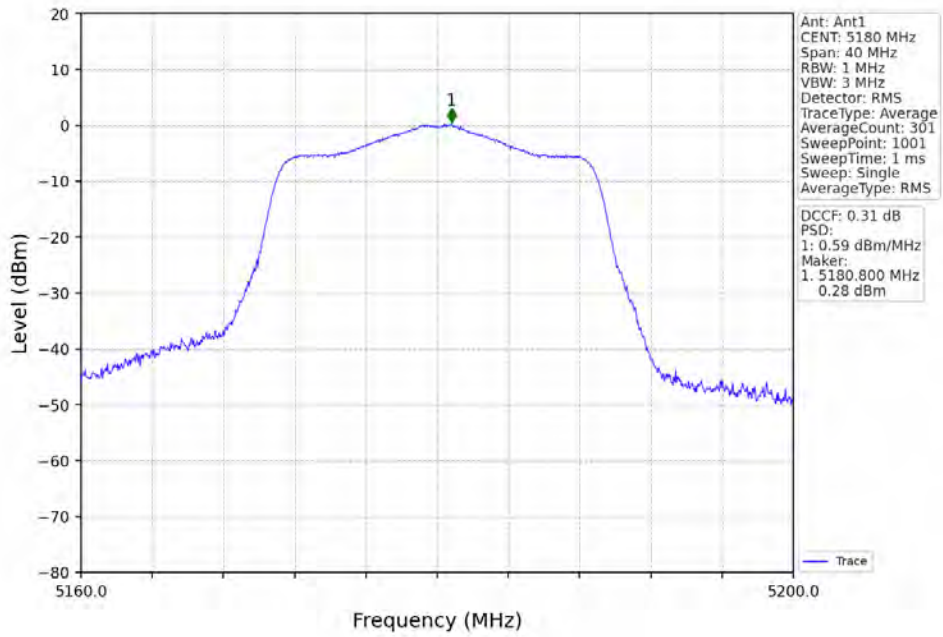
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



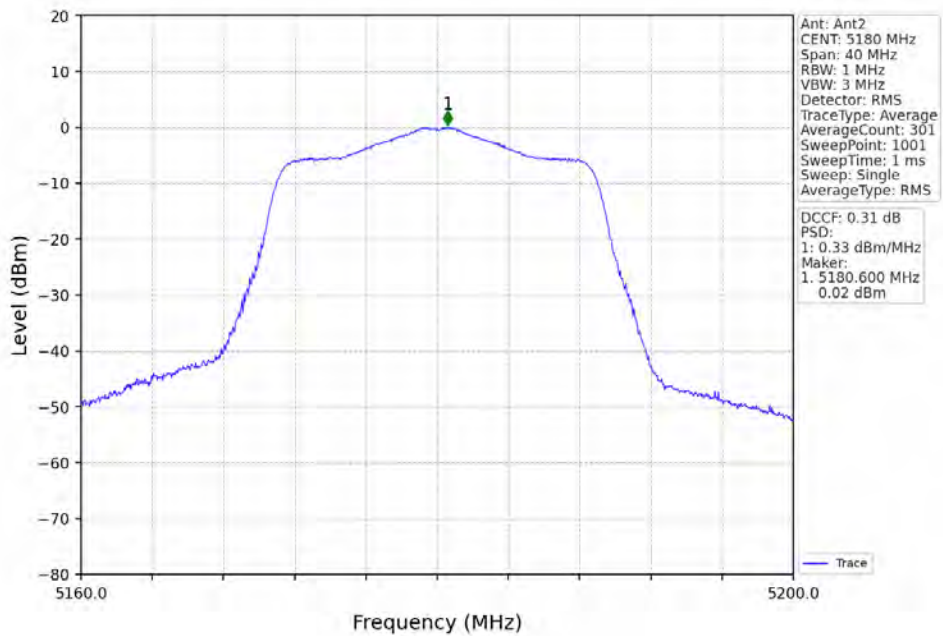
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV

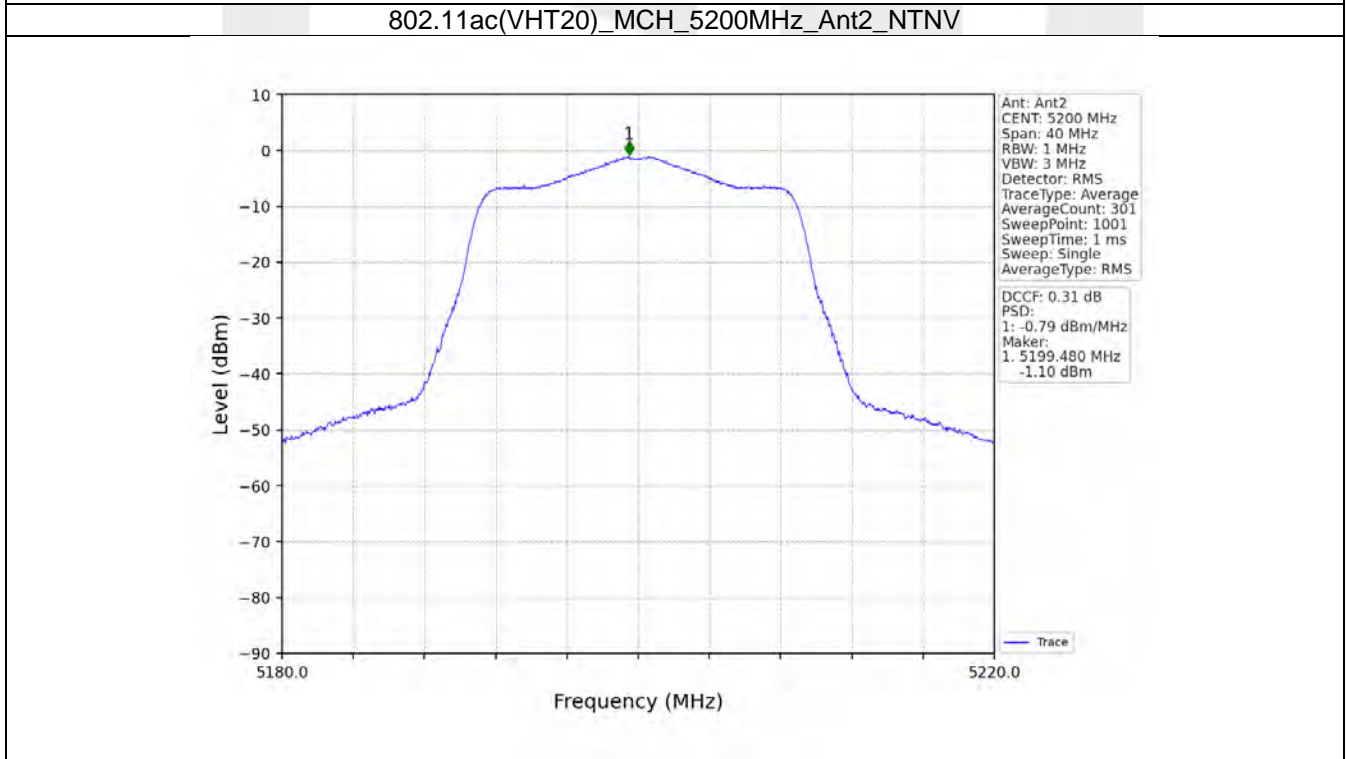
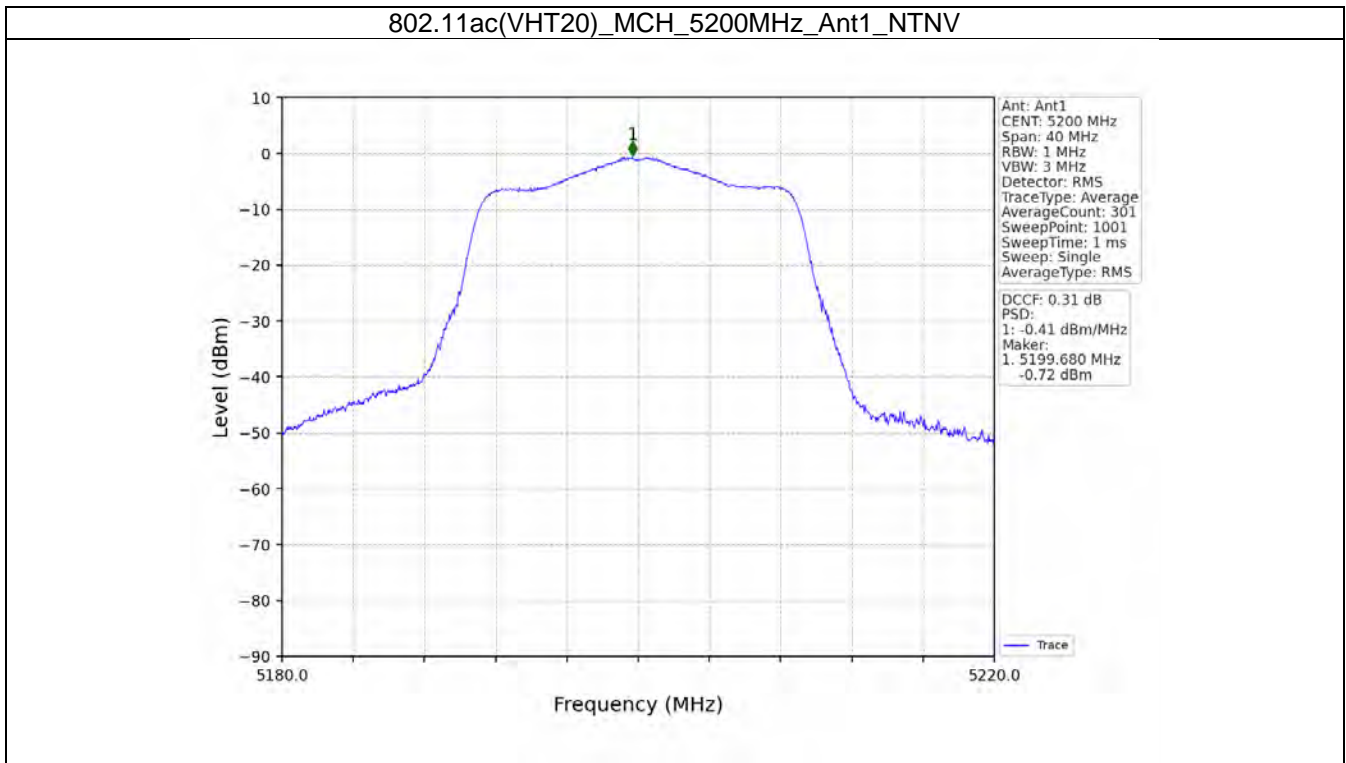


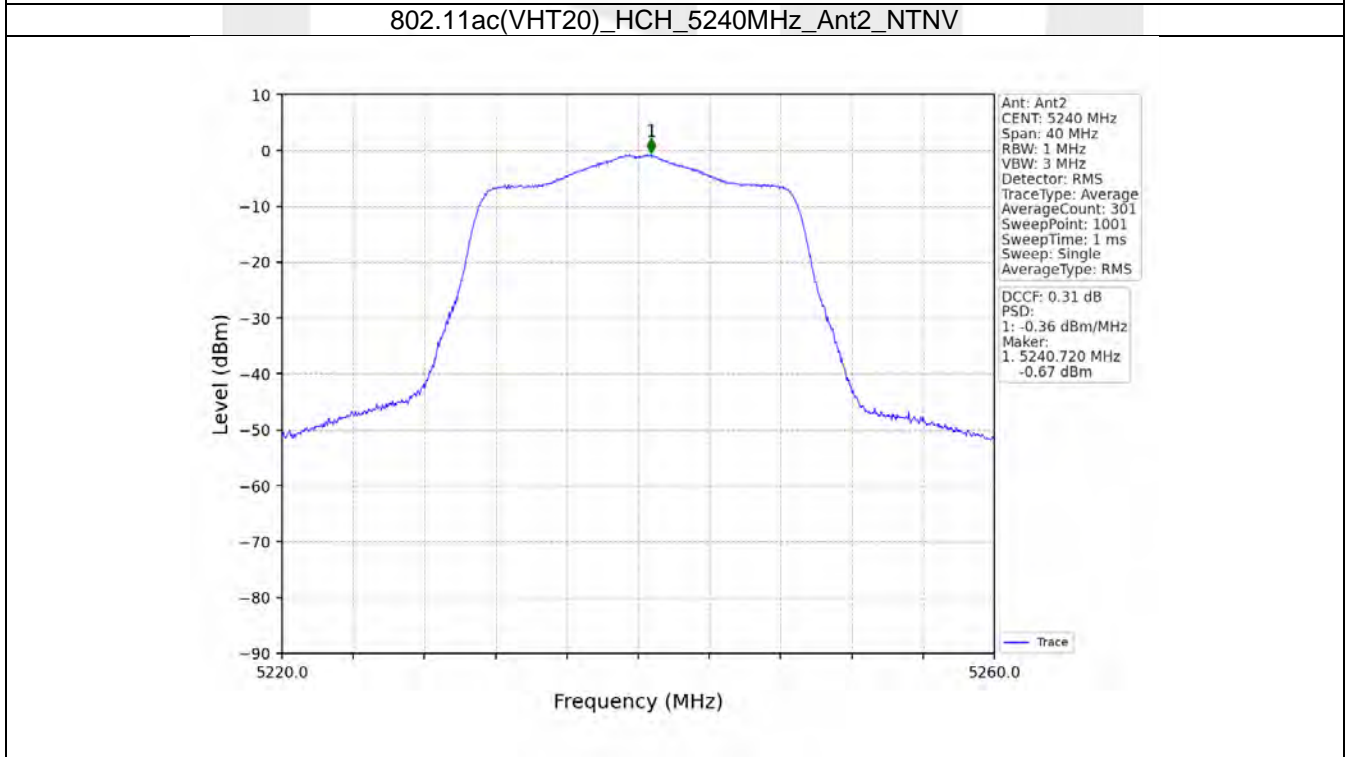
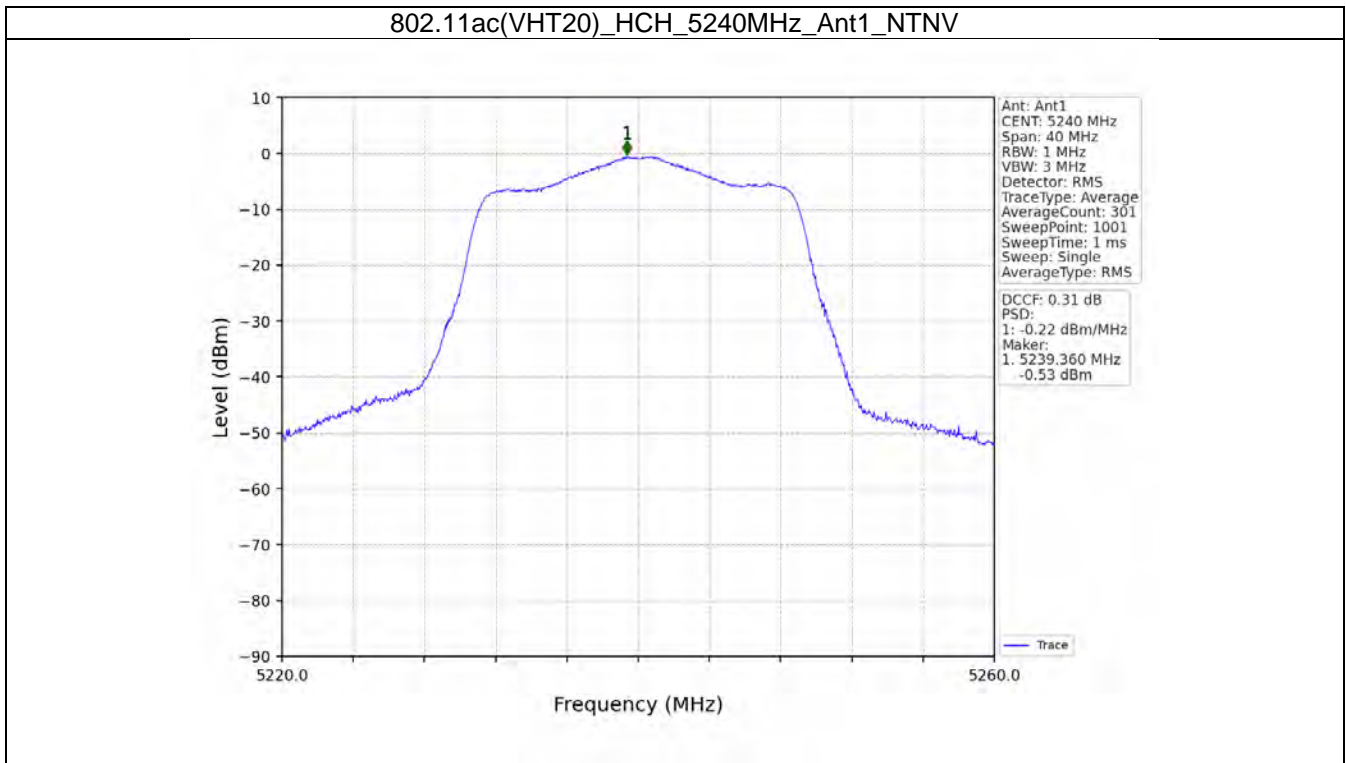
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

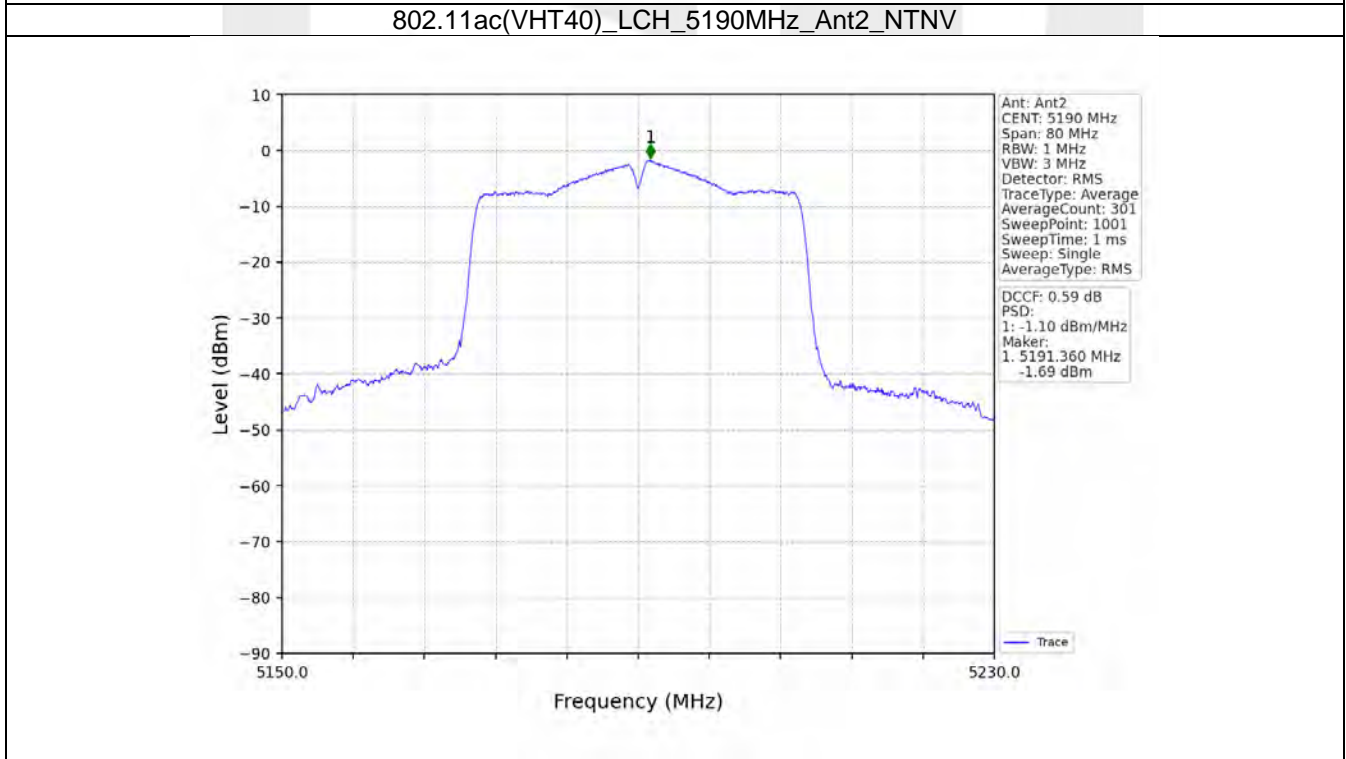
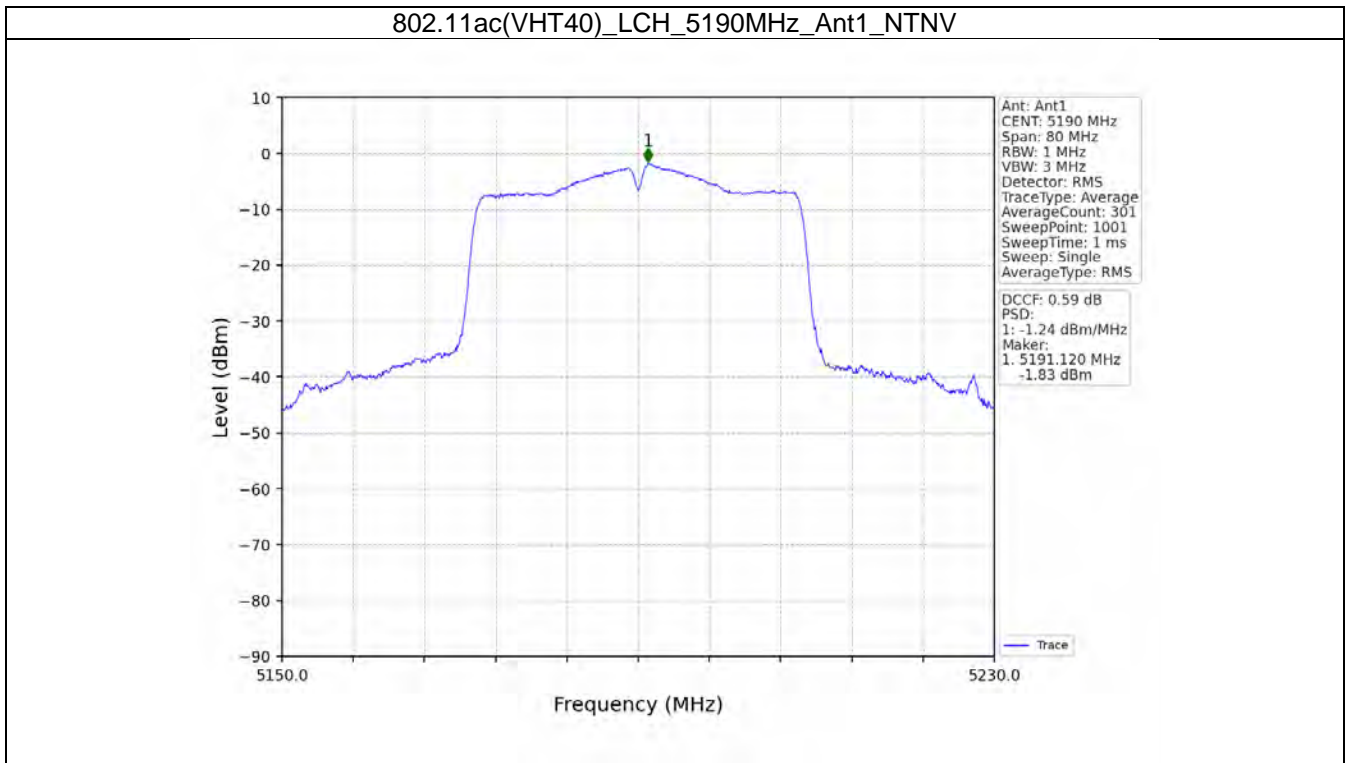


802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV

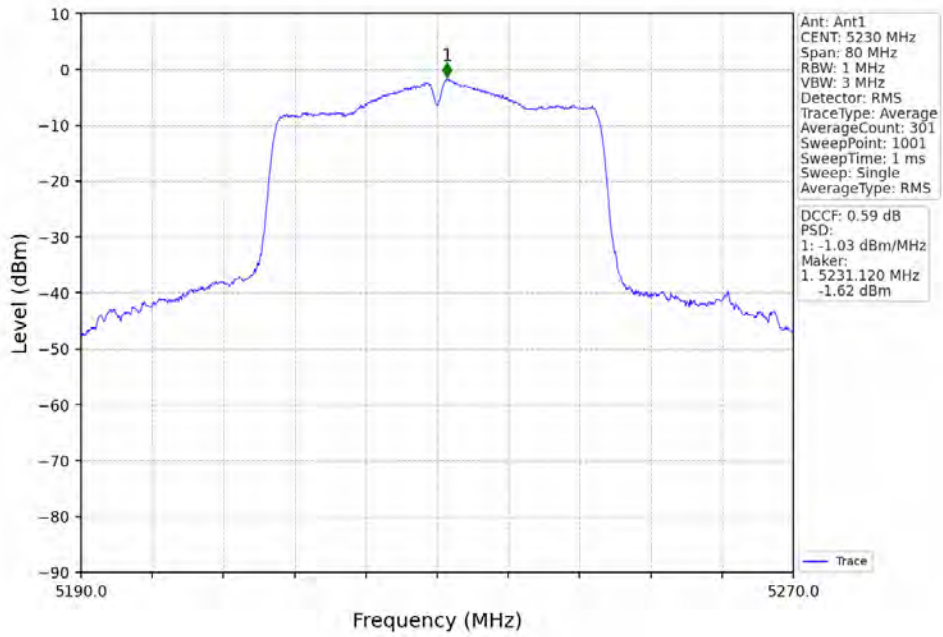




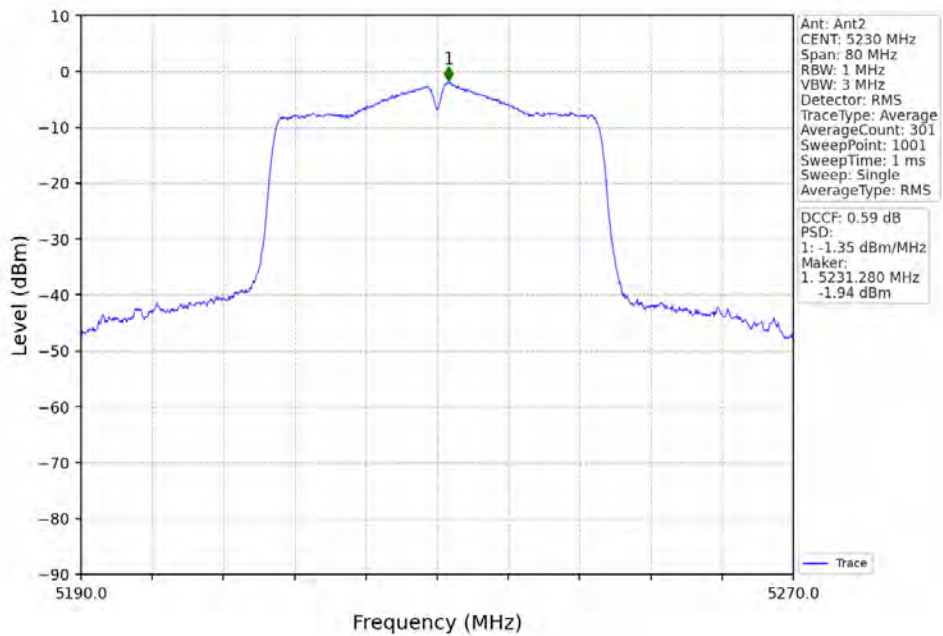


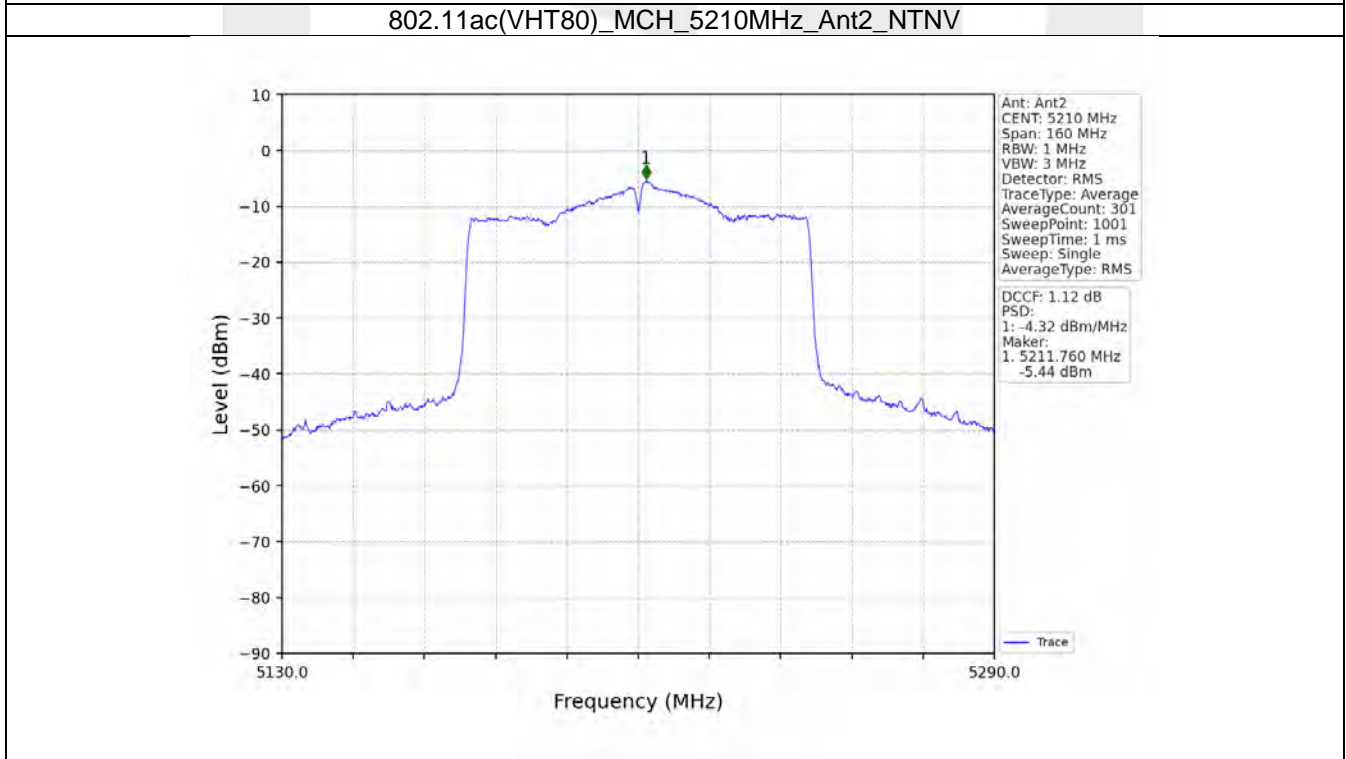
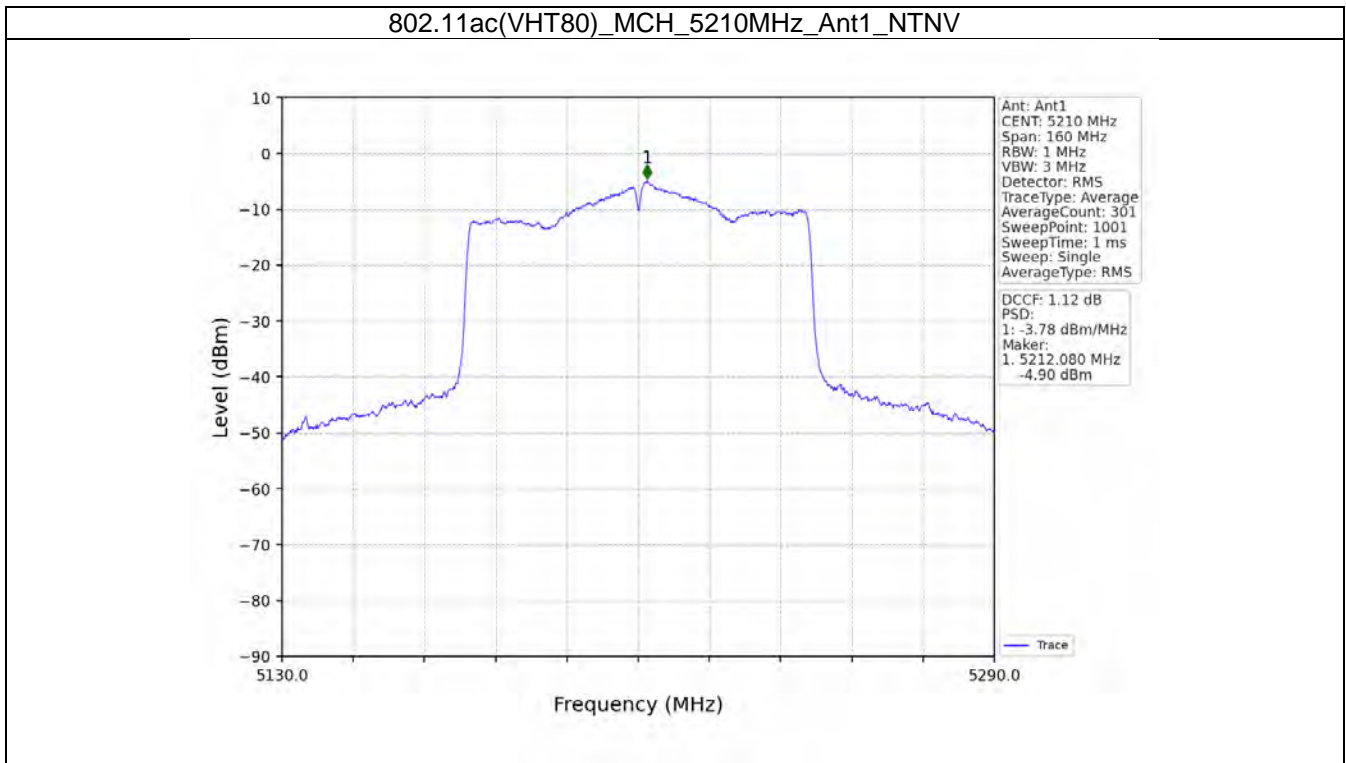


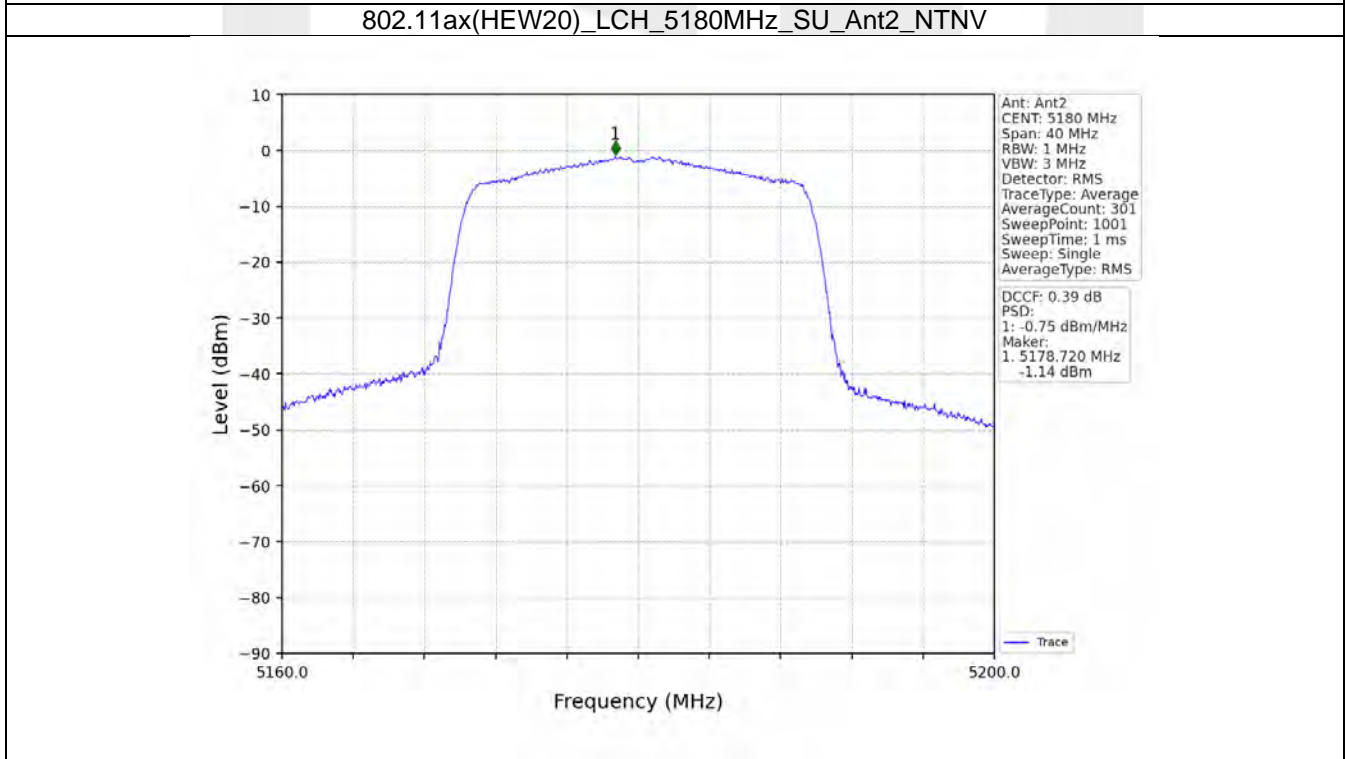
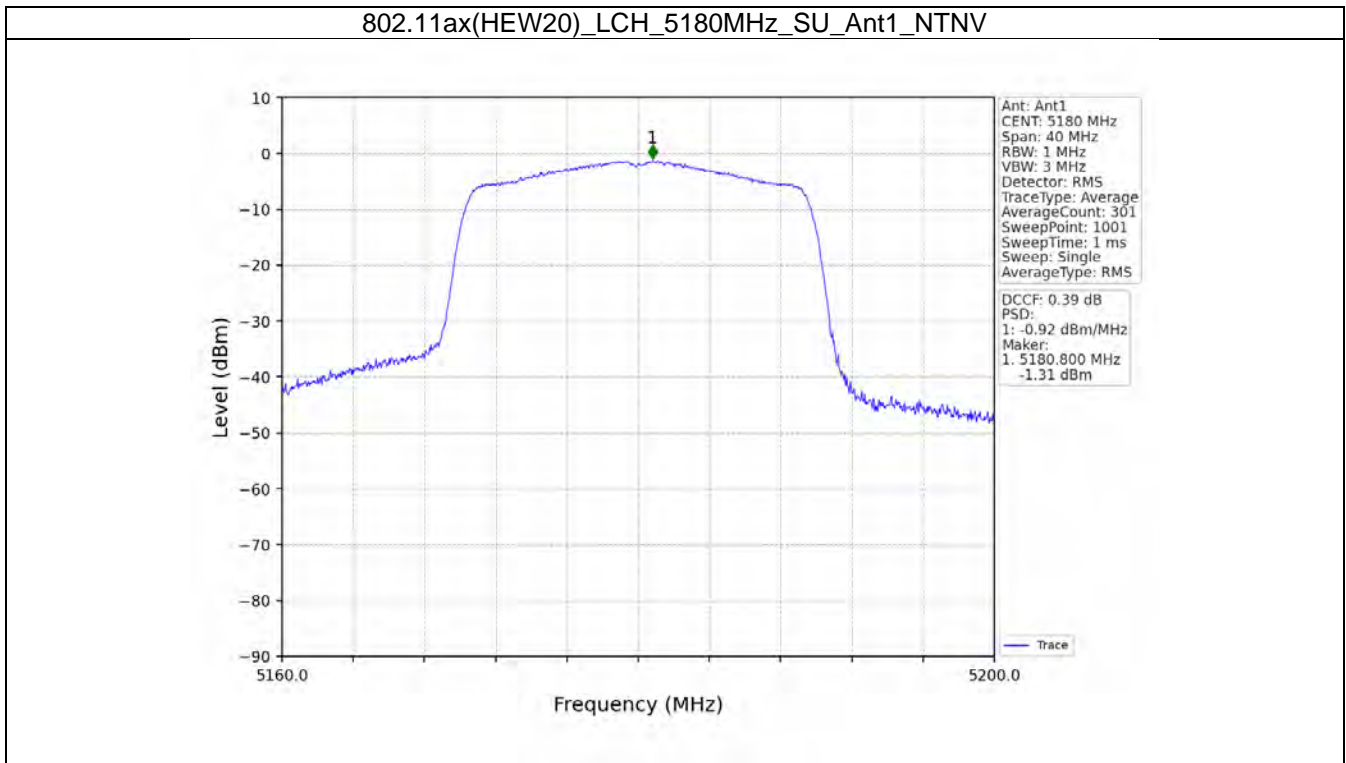
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

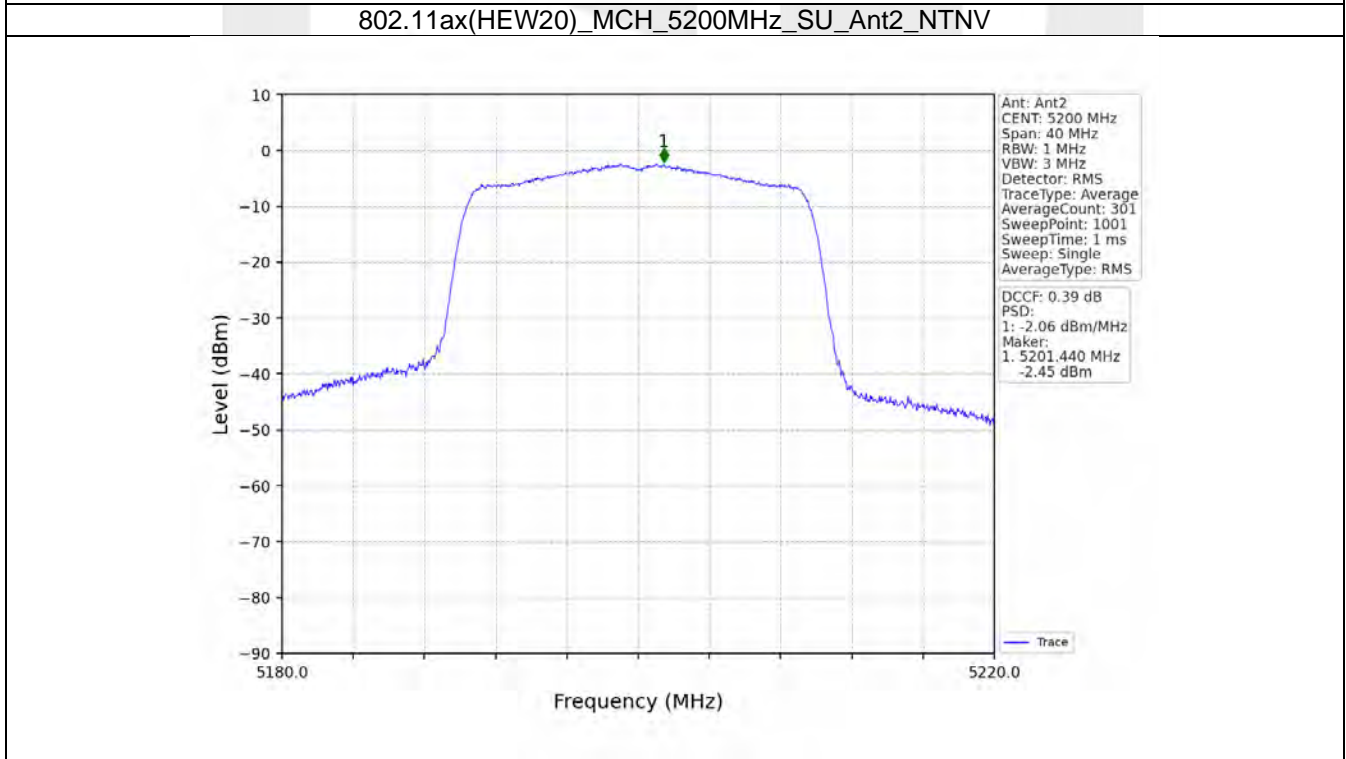
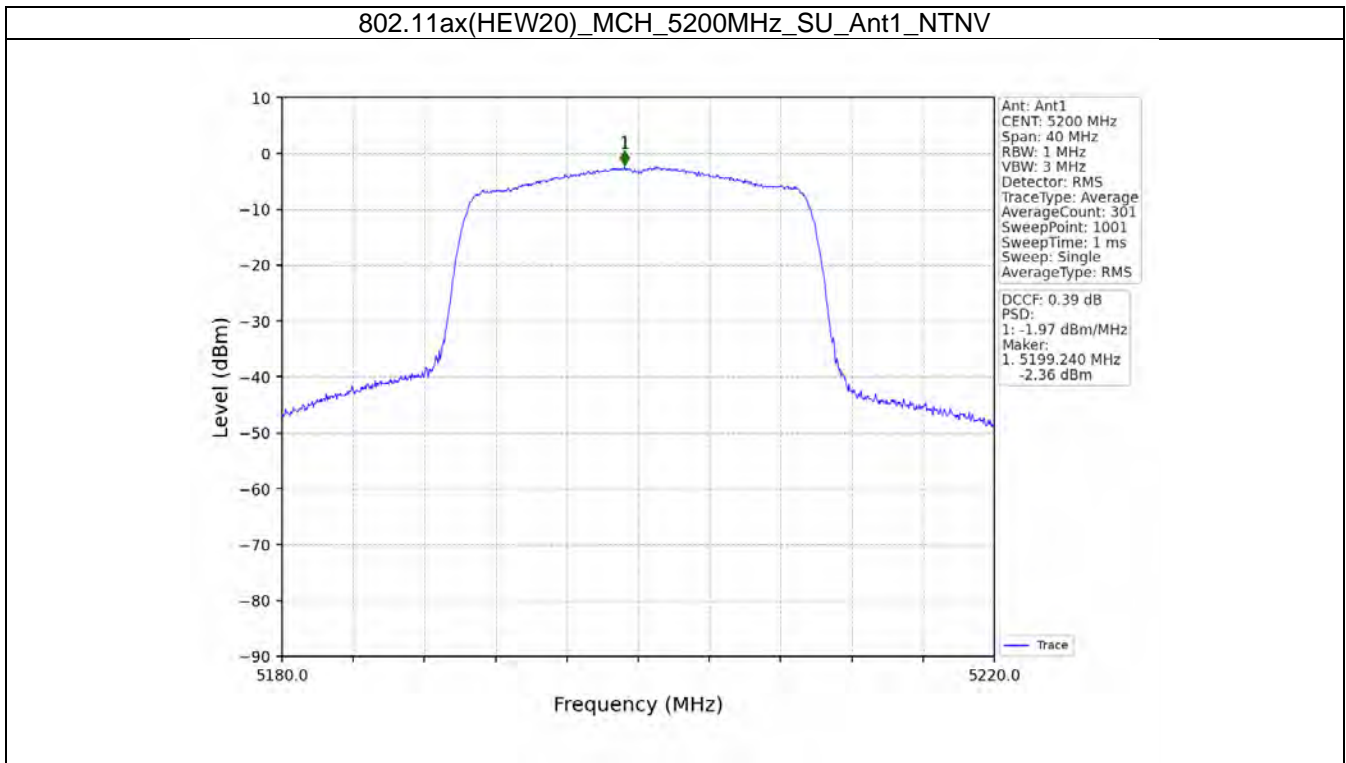


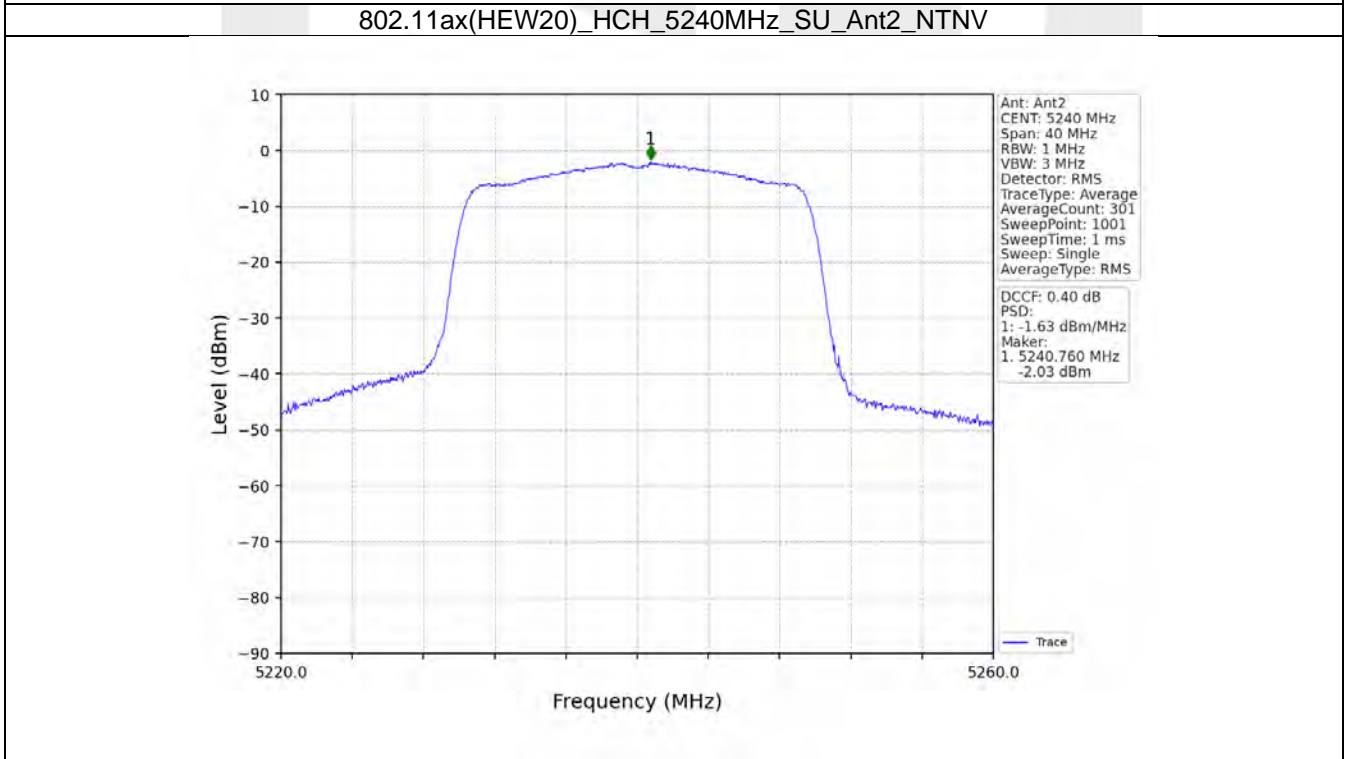
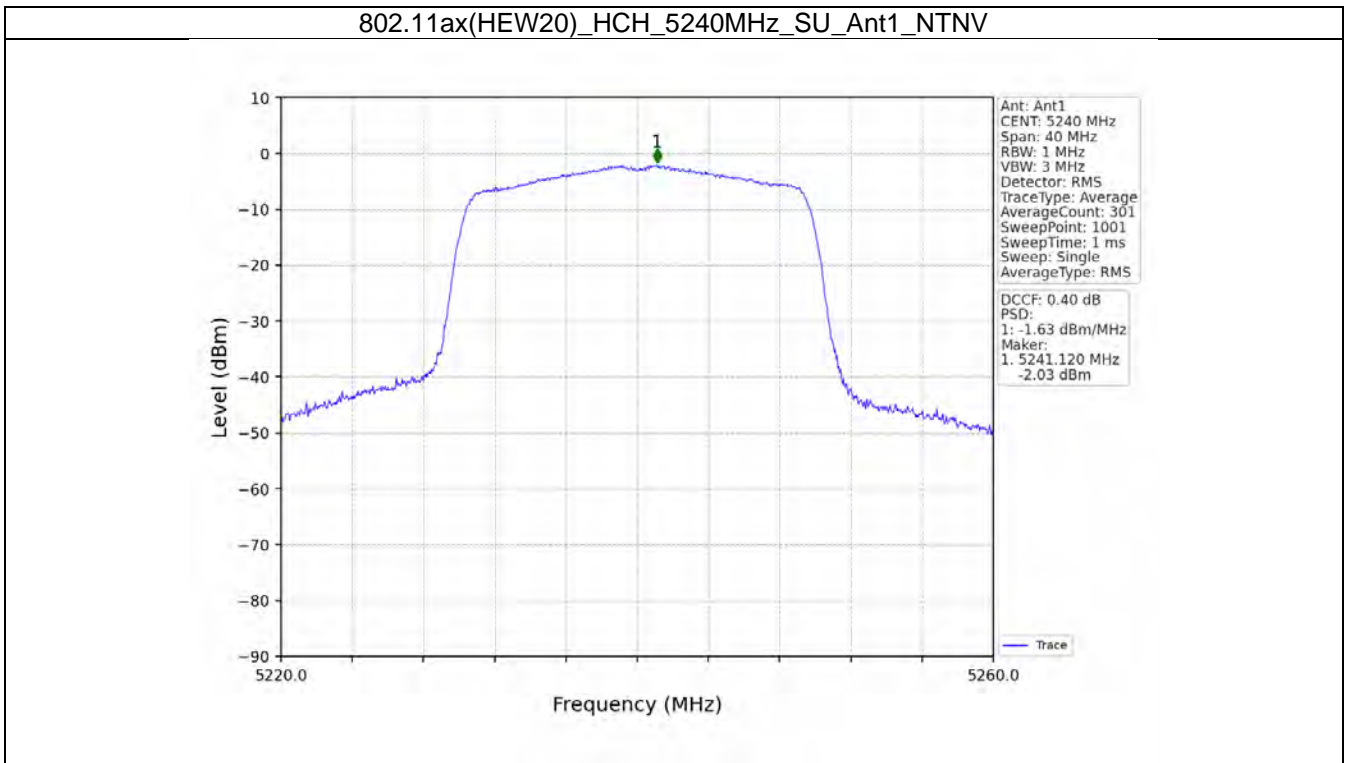
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV

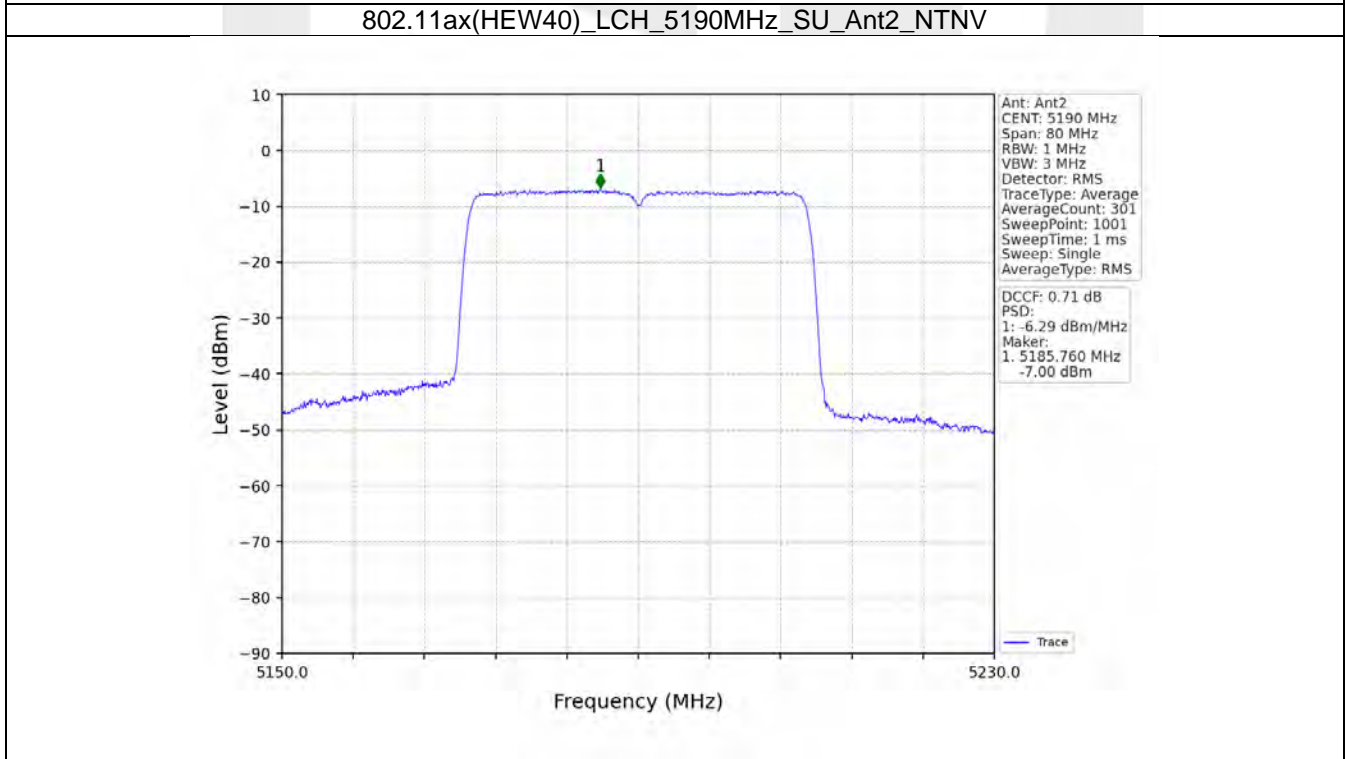
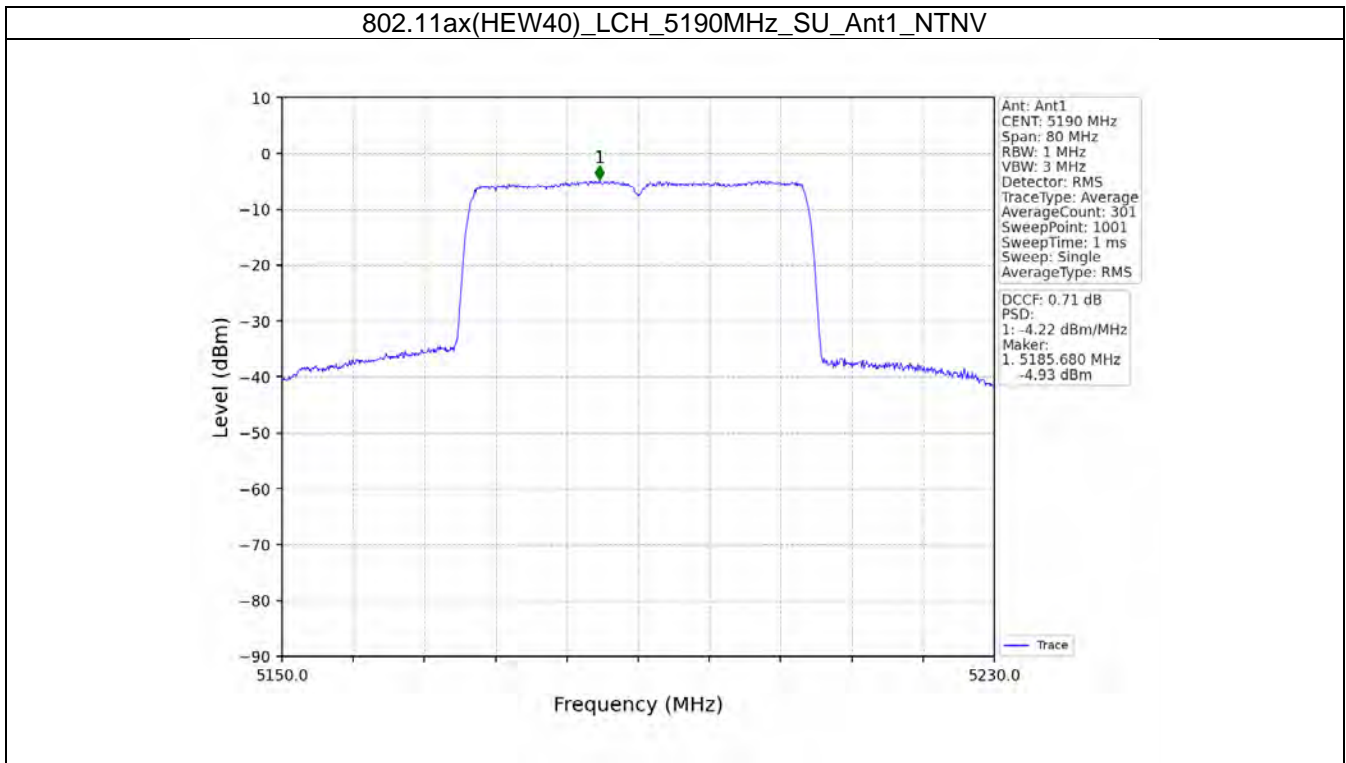


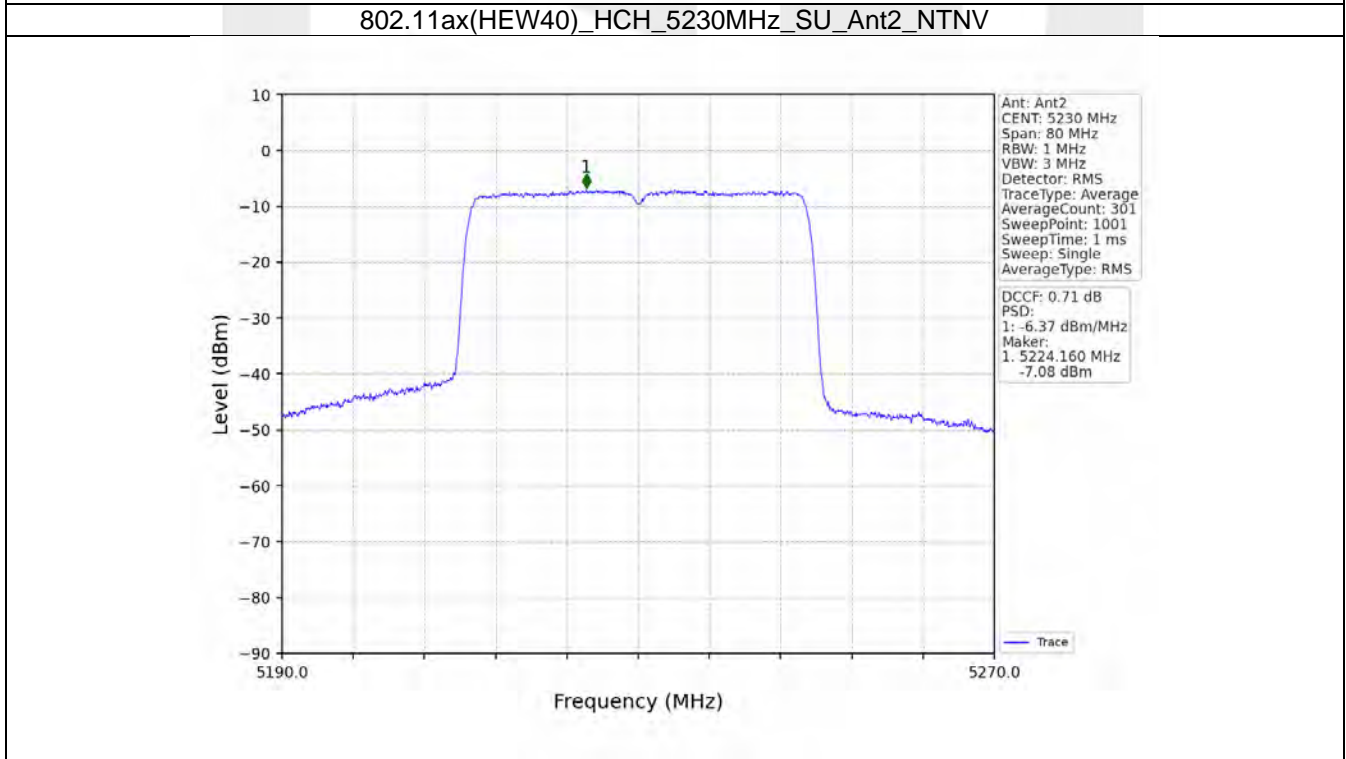
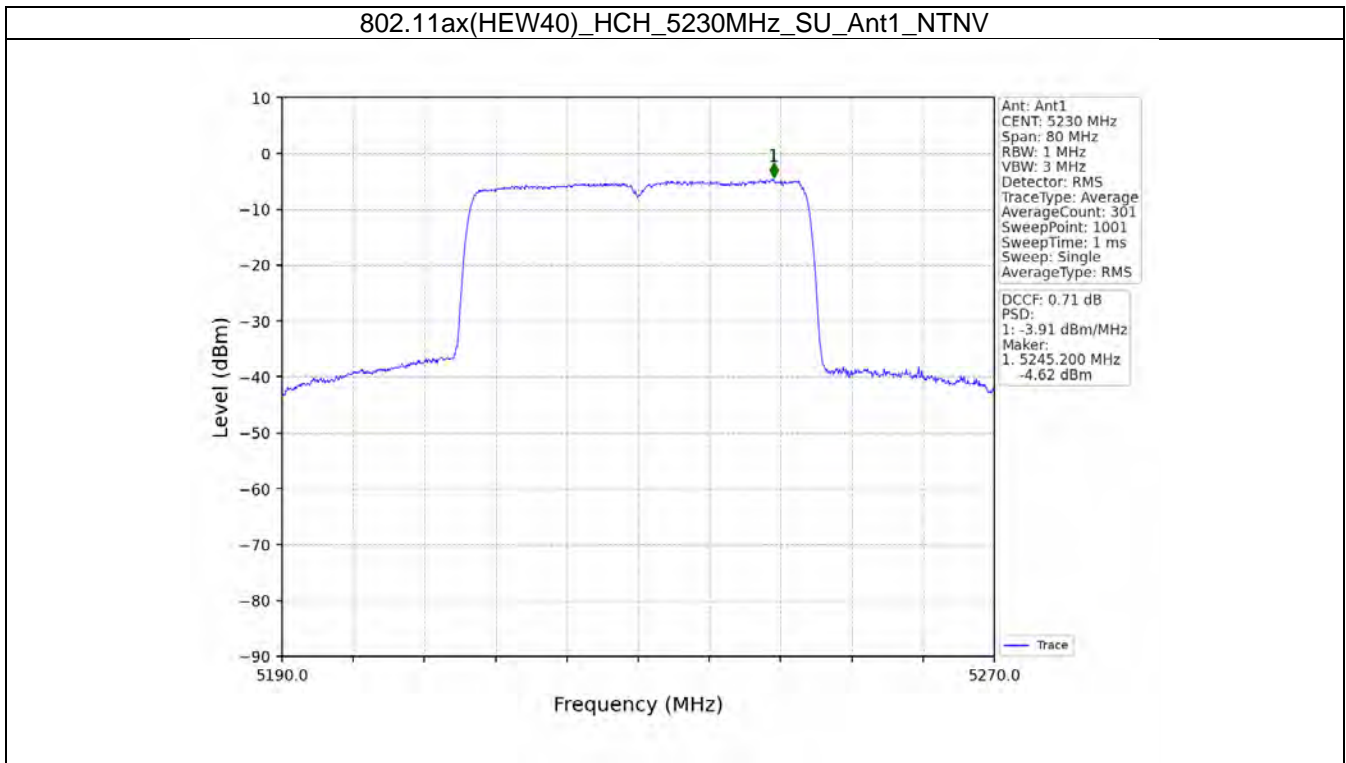


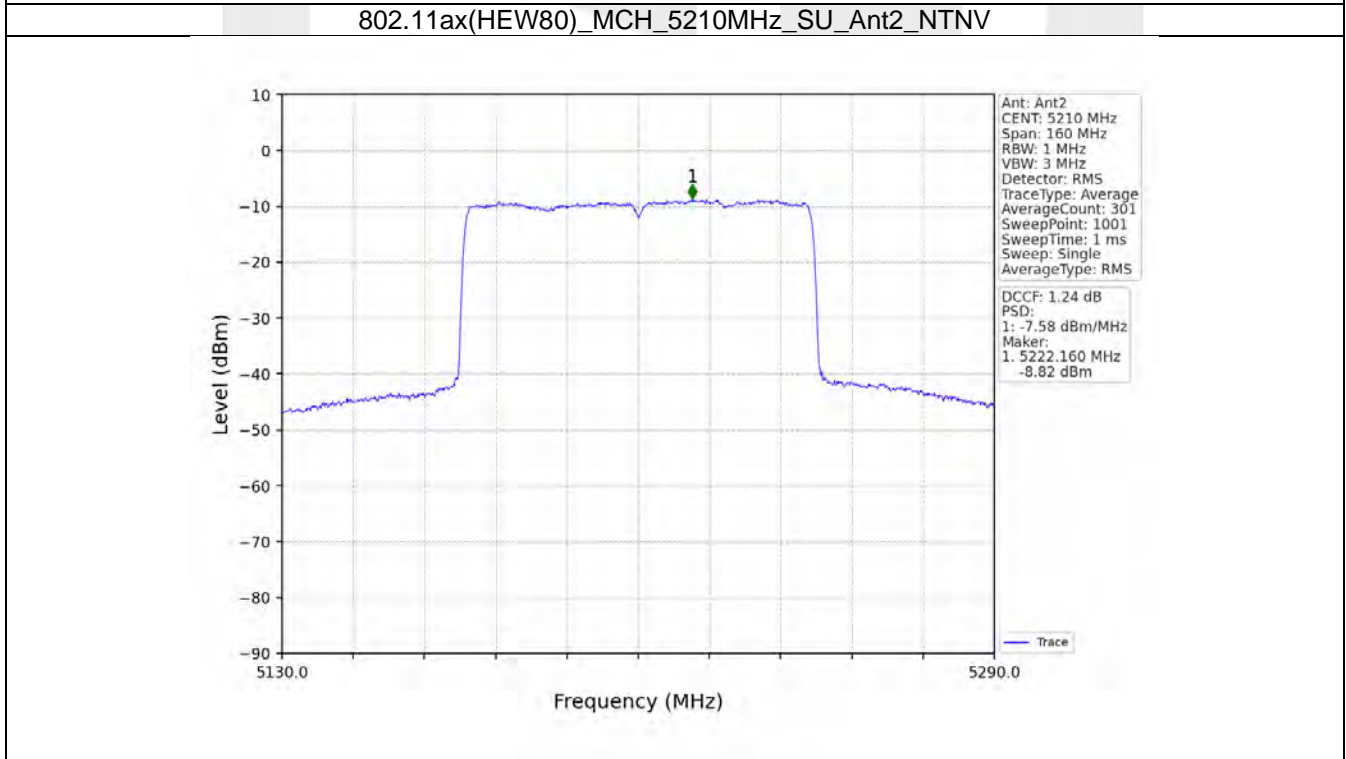
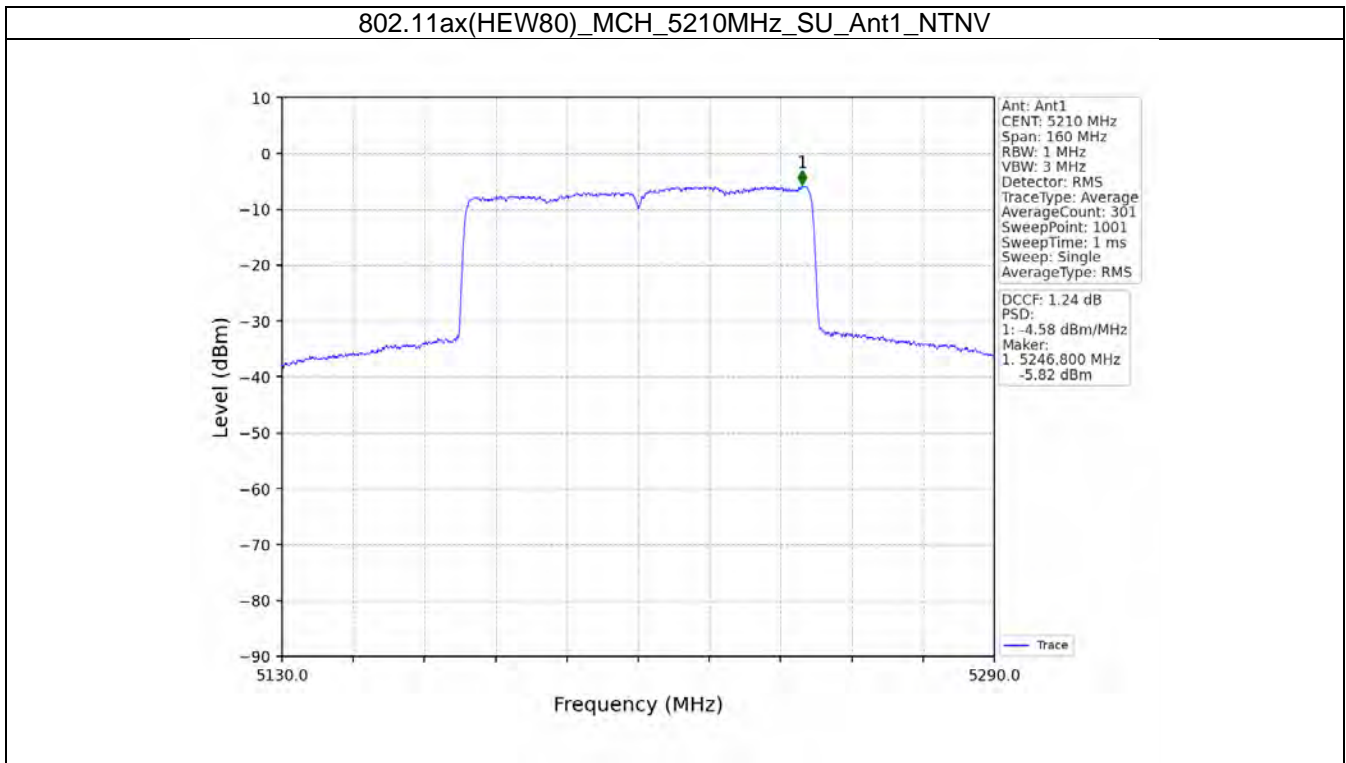




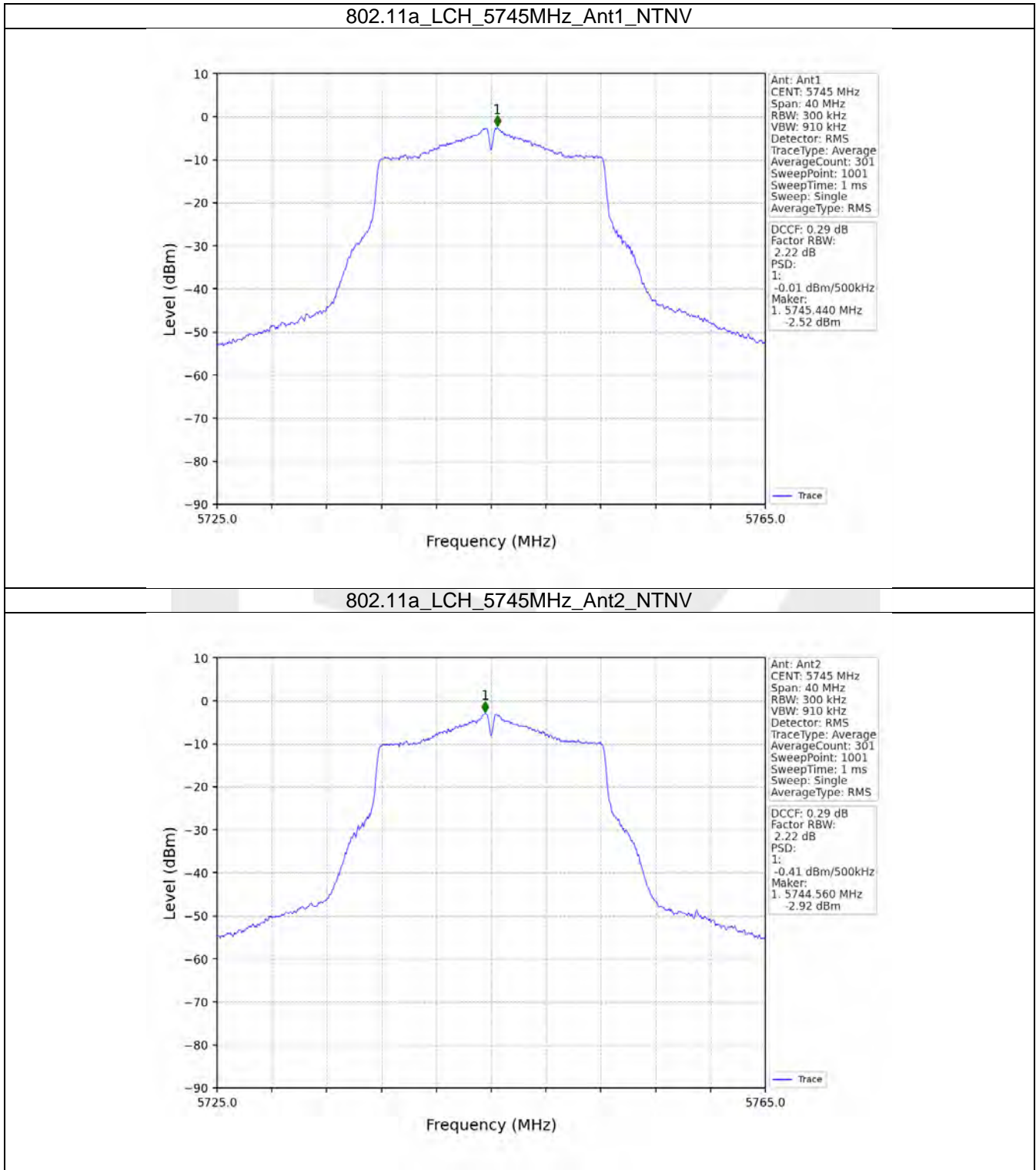


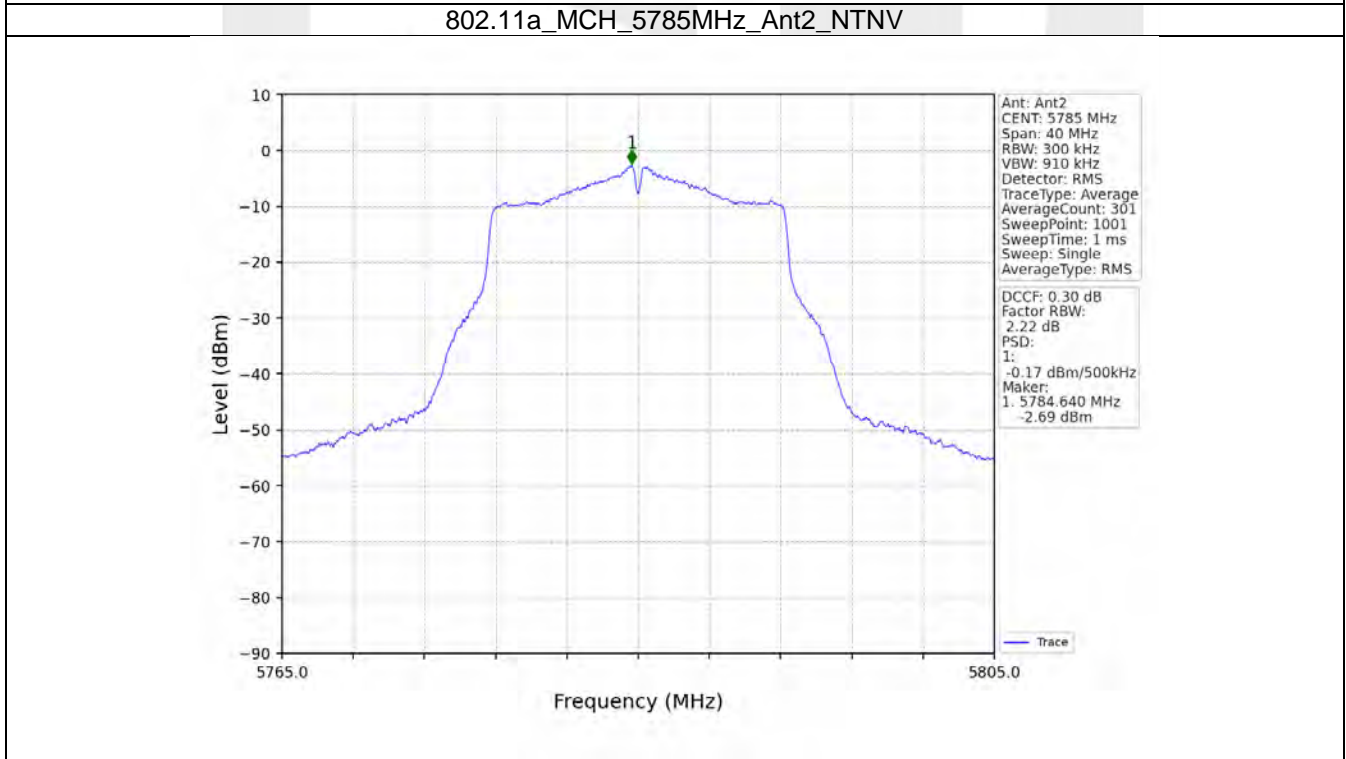
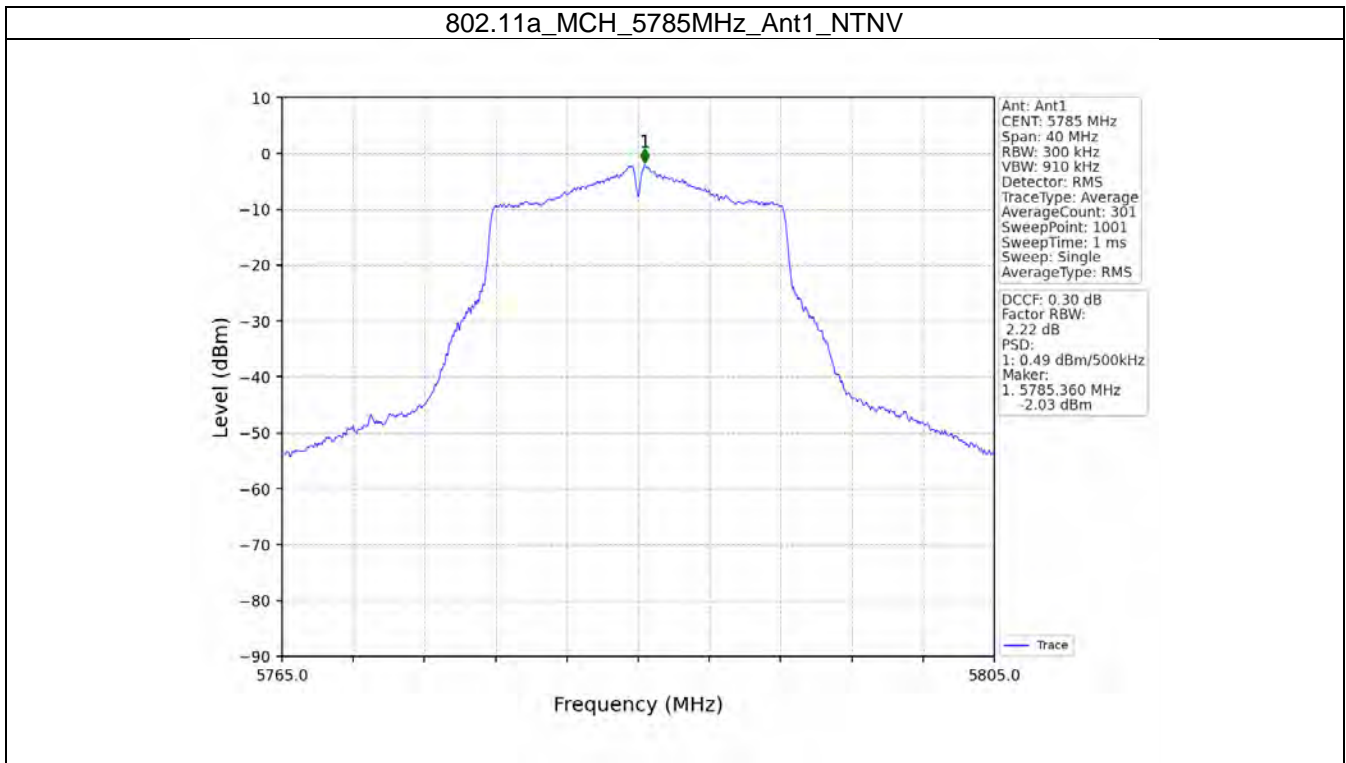


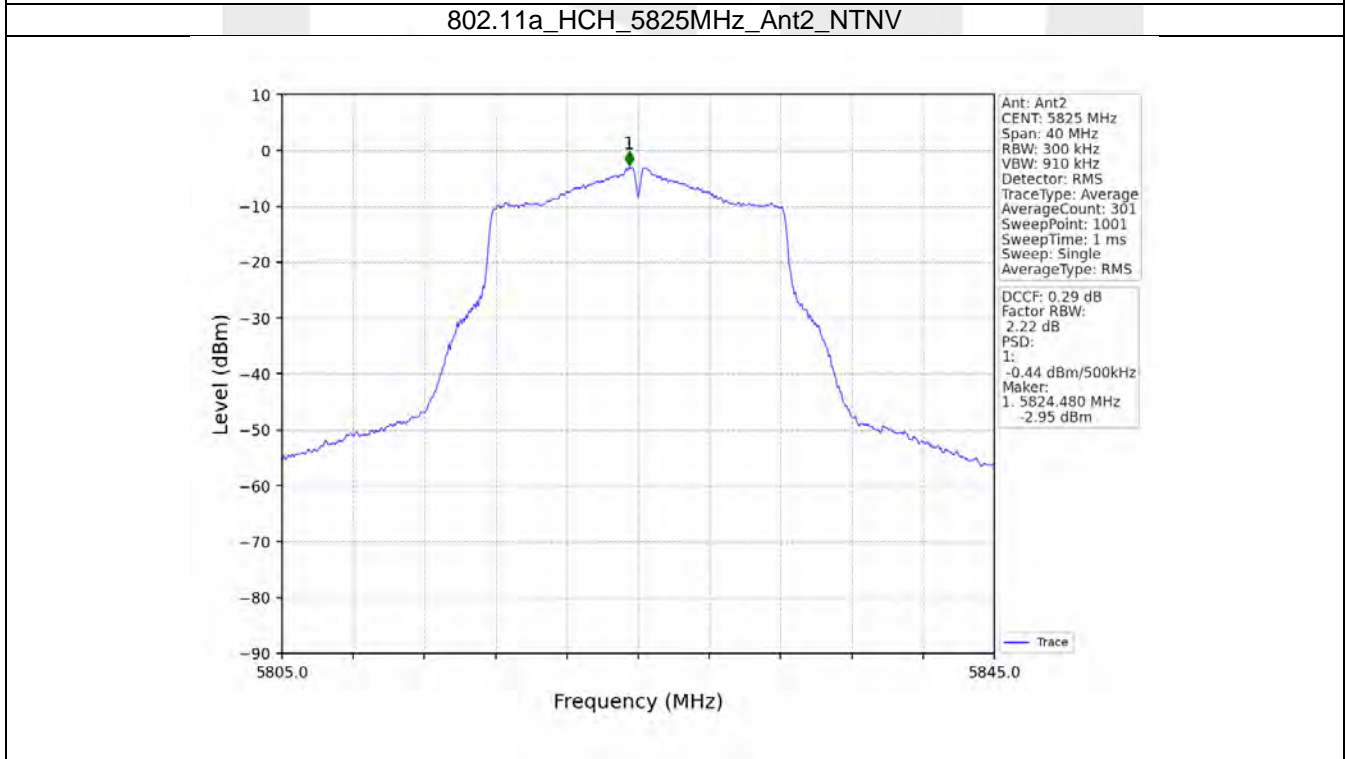
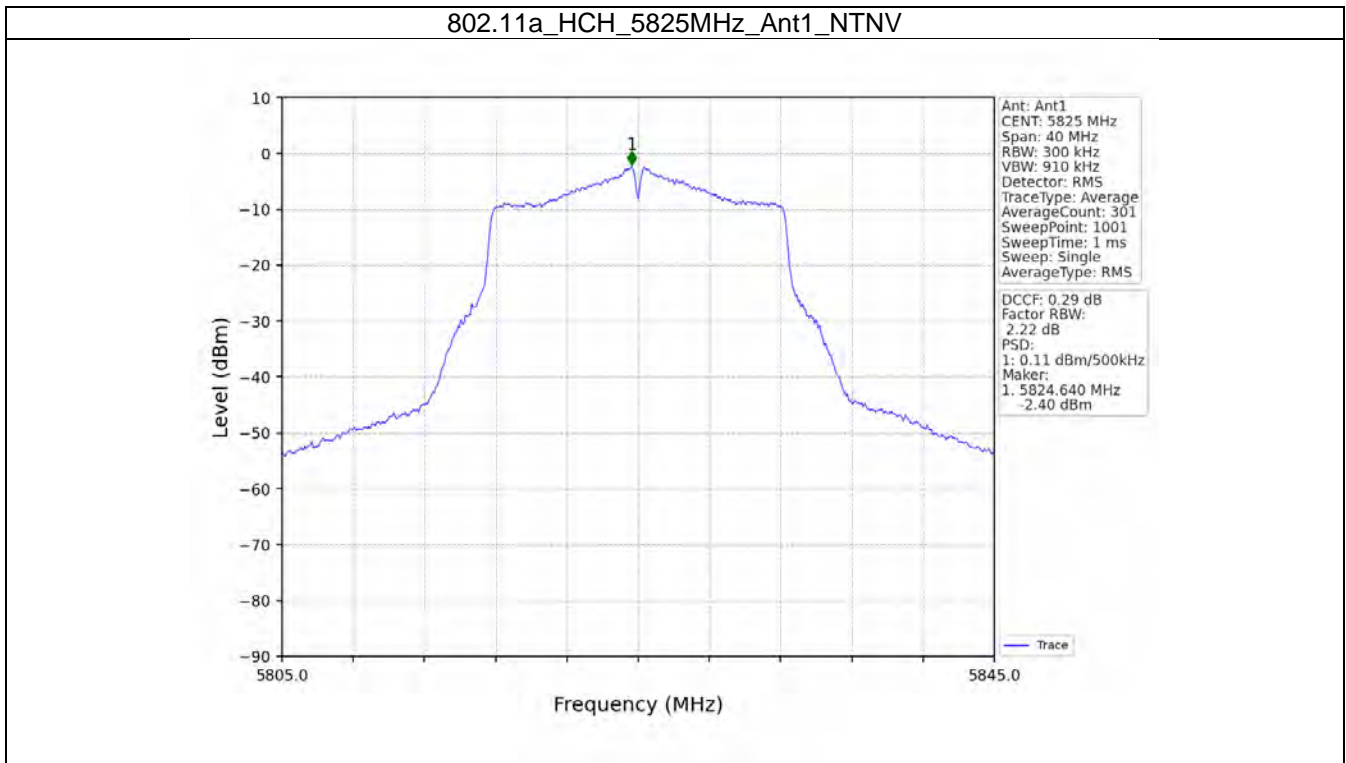




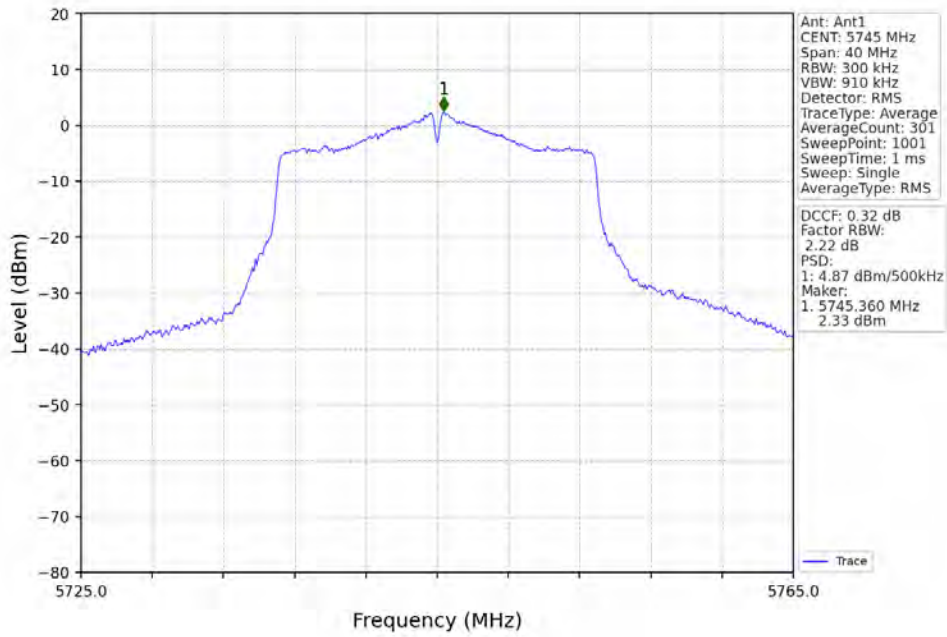
4.2.2 PSD-Band3



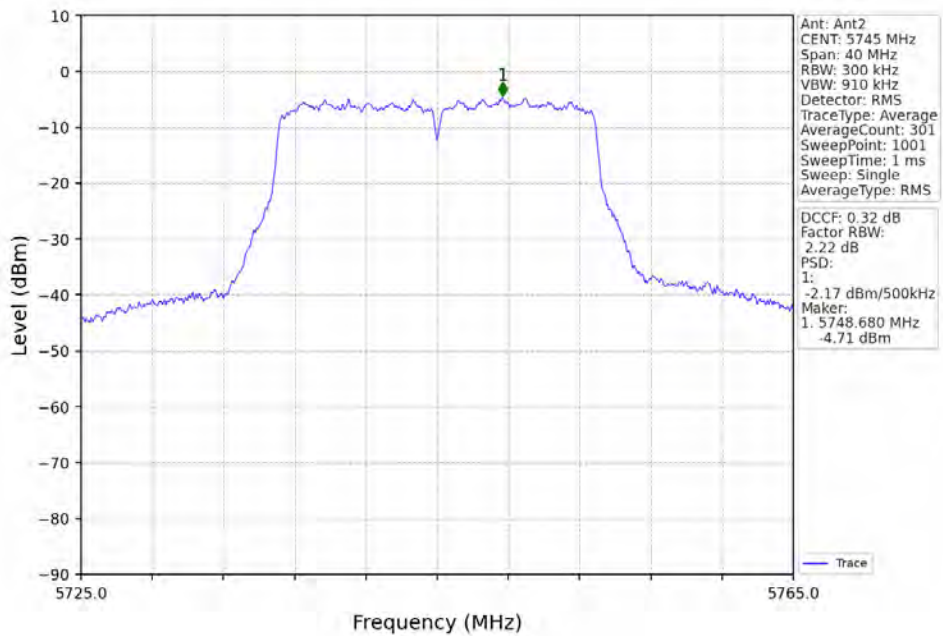




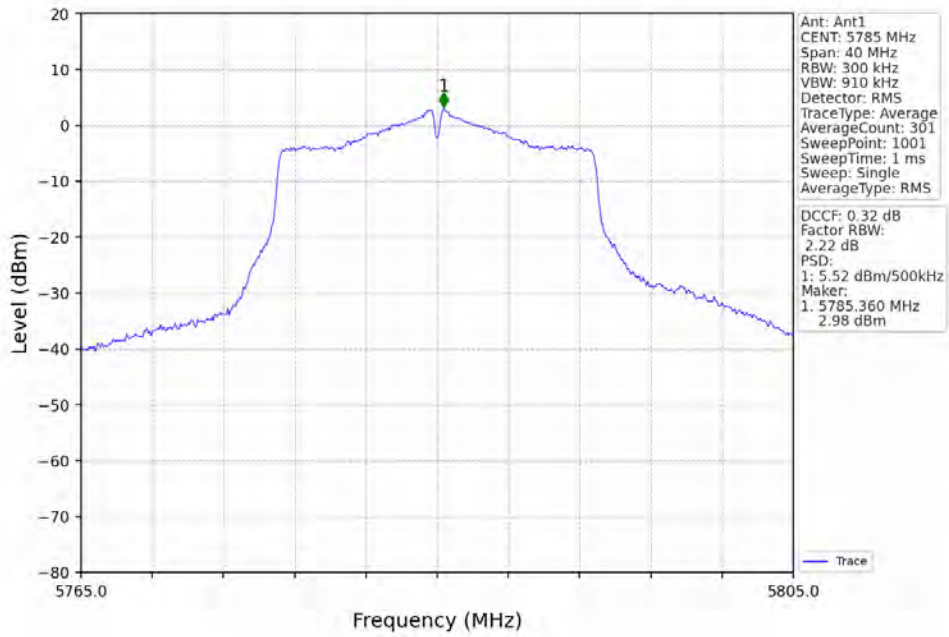
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



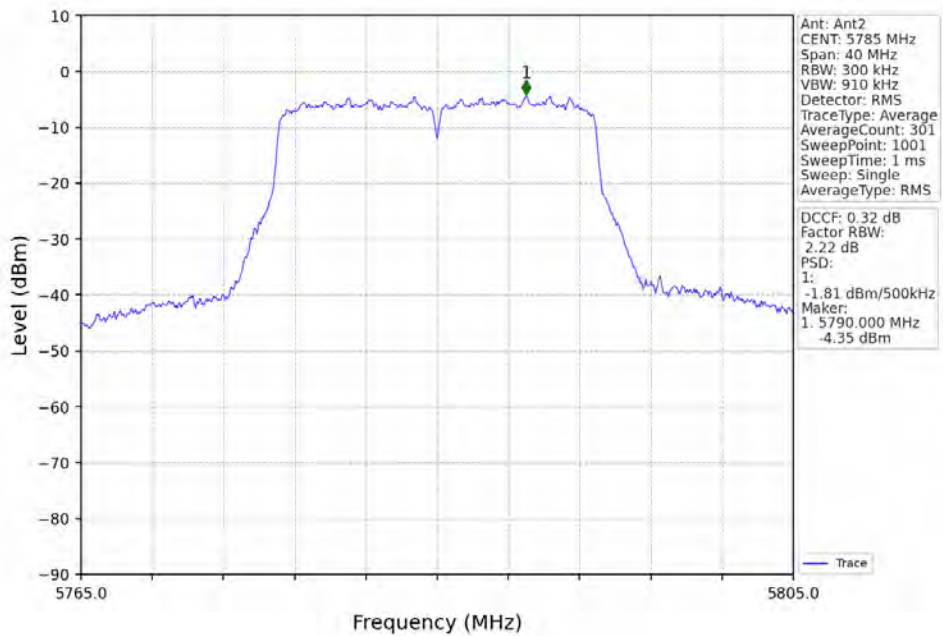
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

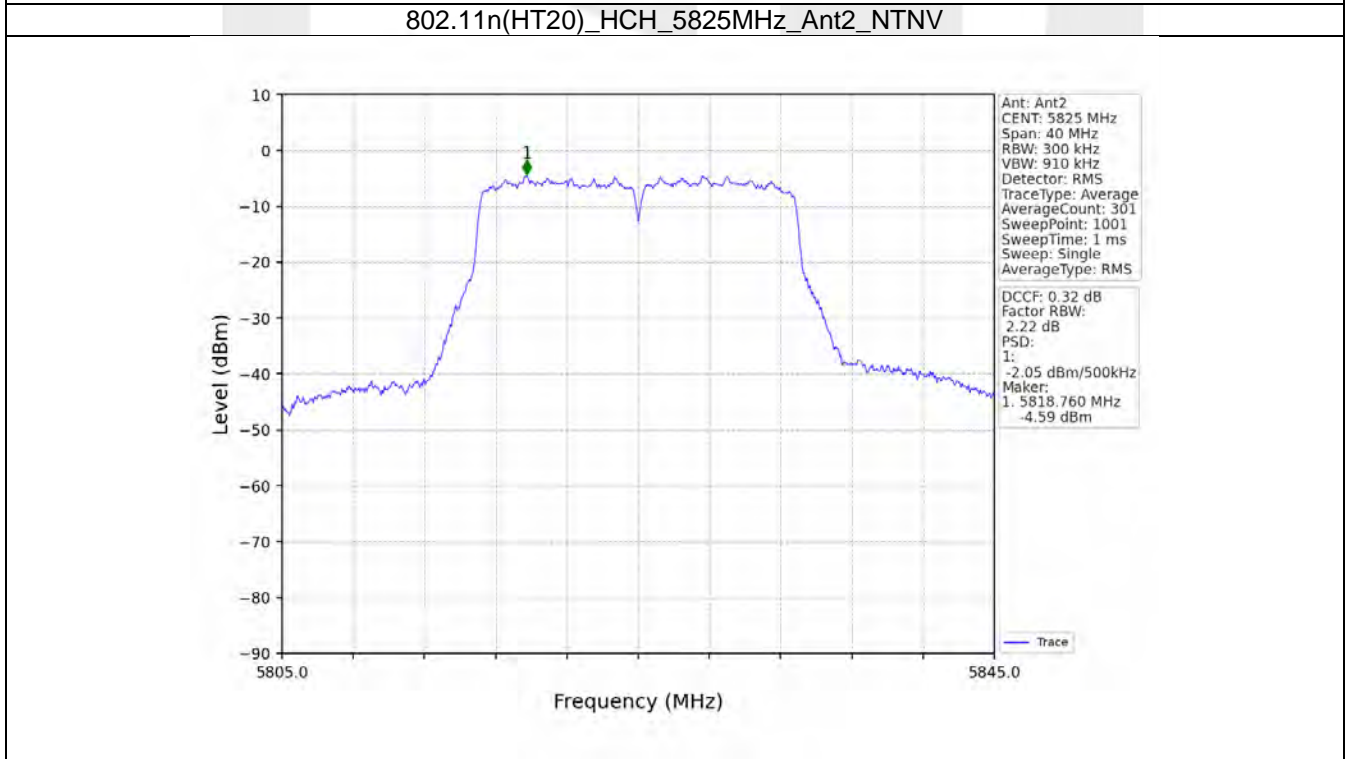
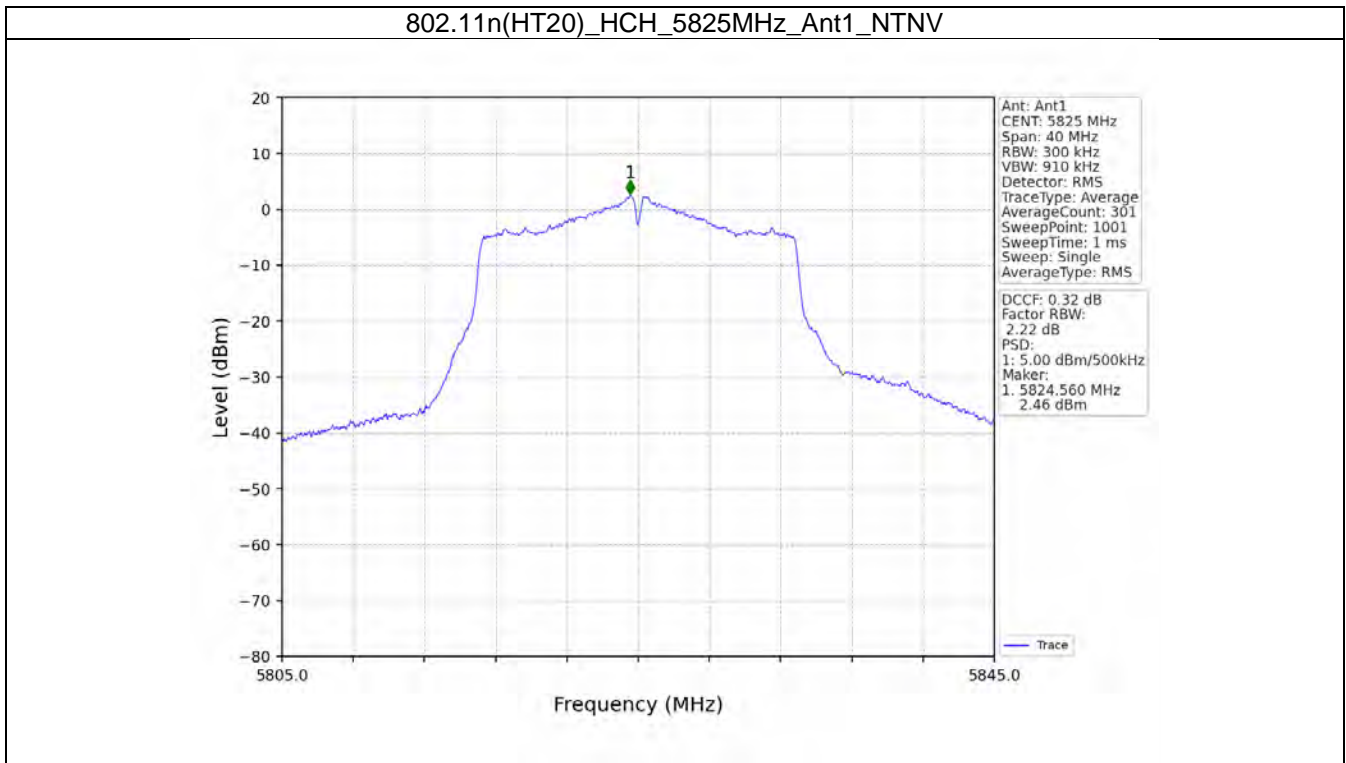


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

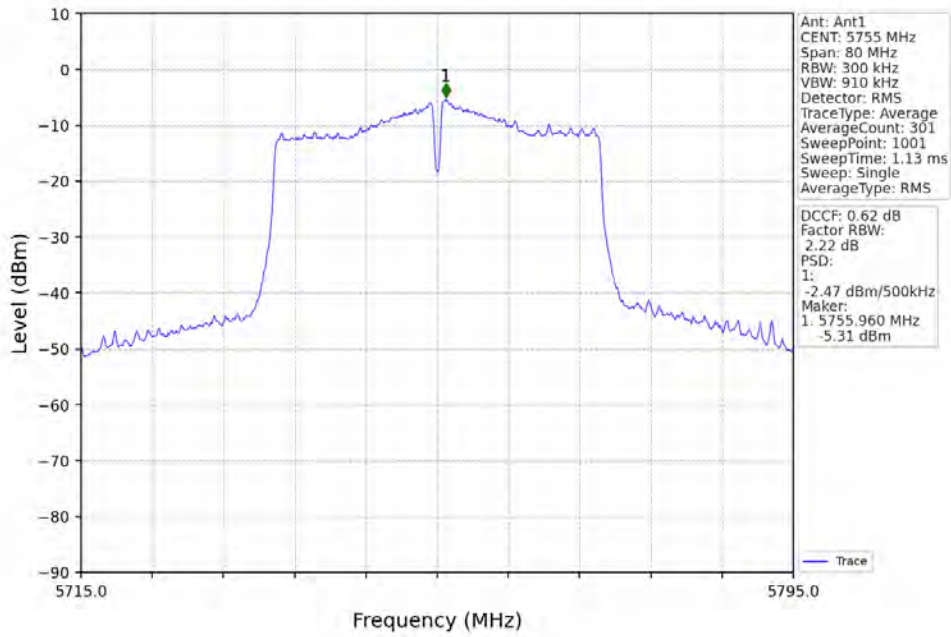


802.11n(HT20)_MCH_5785MHz_Ant2_NTNV

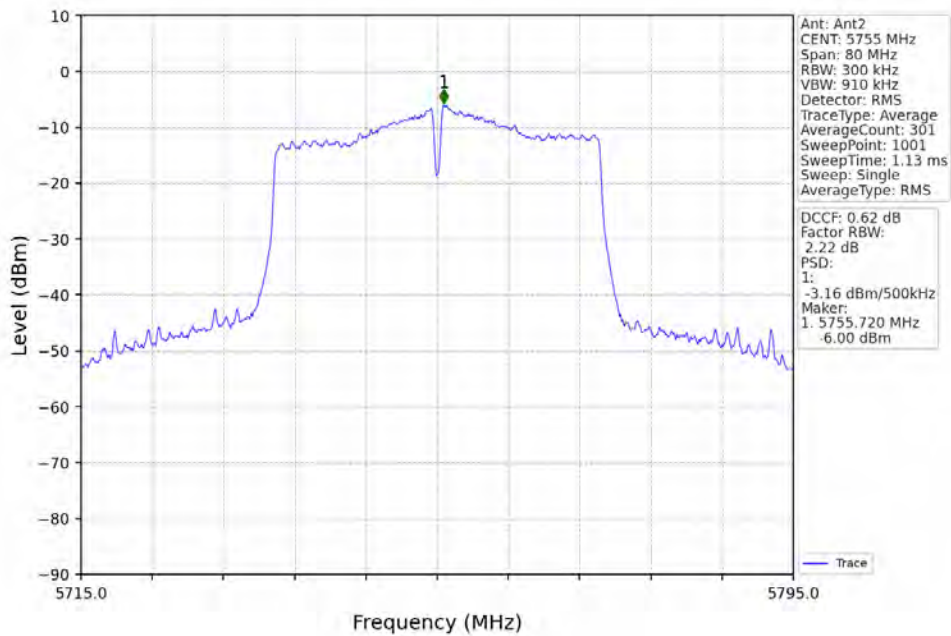


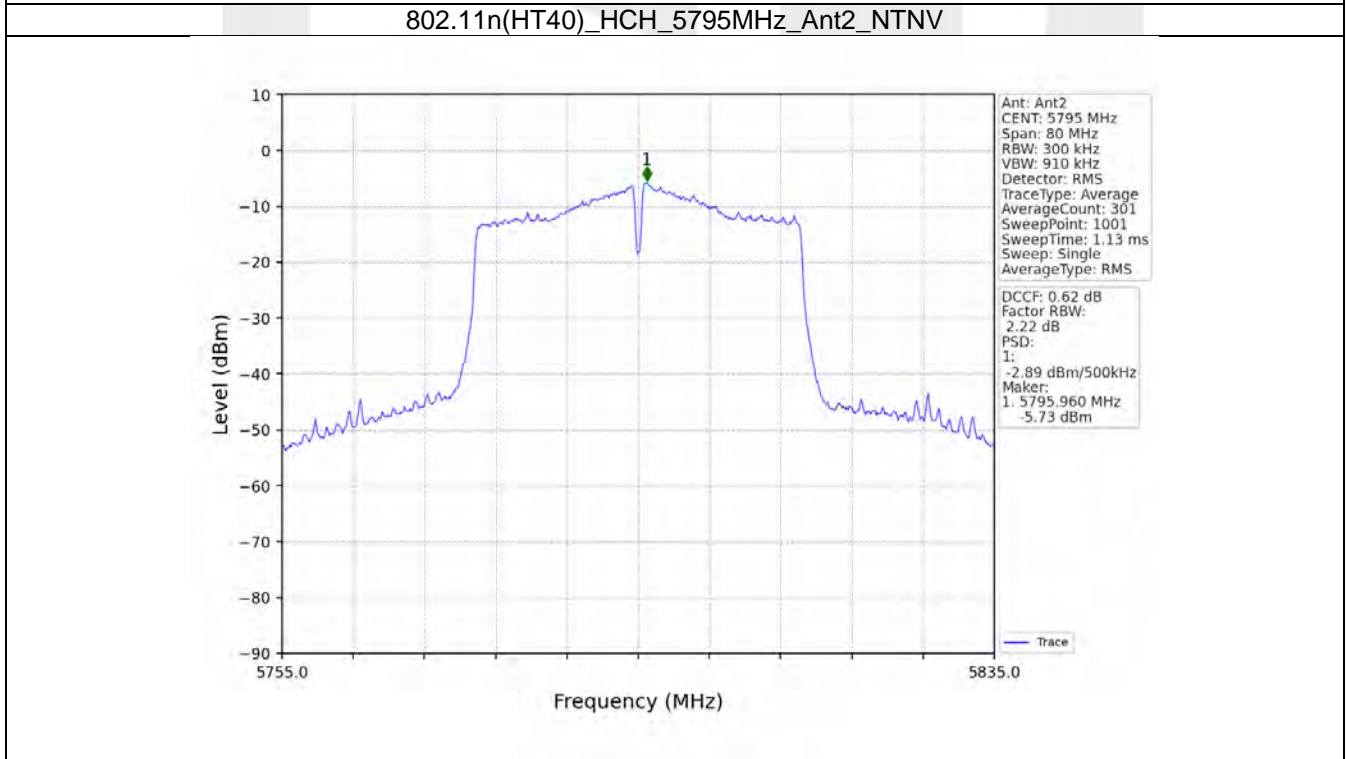
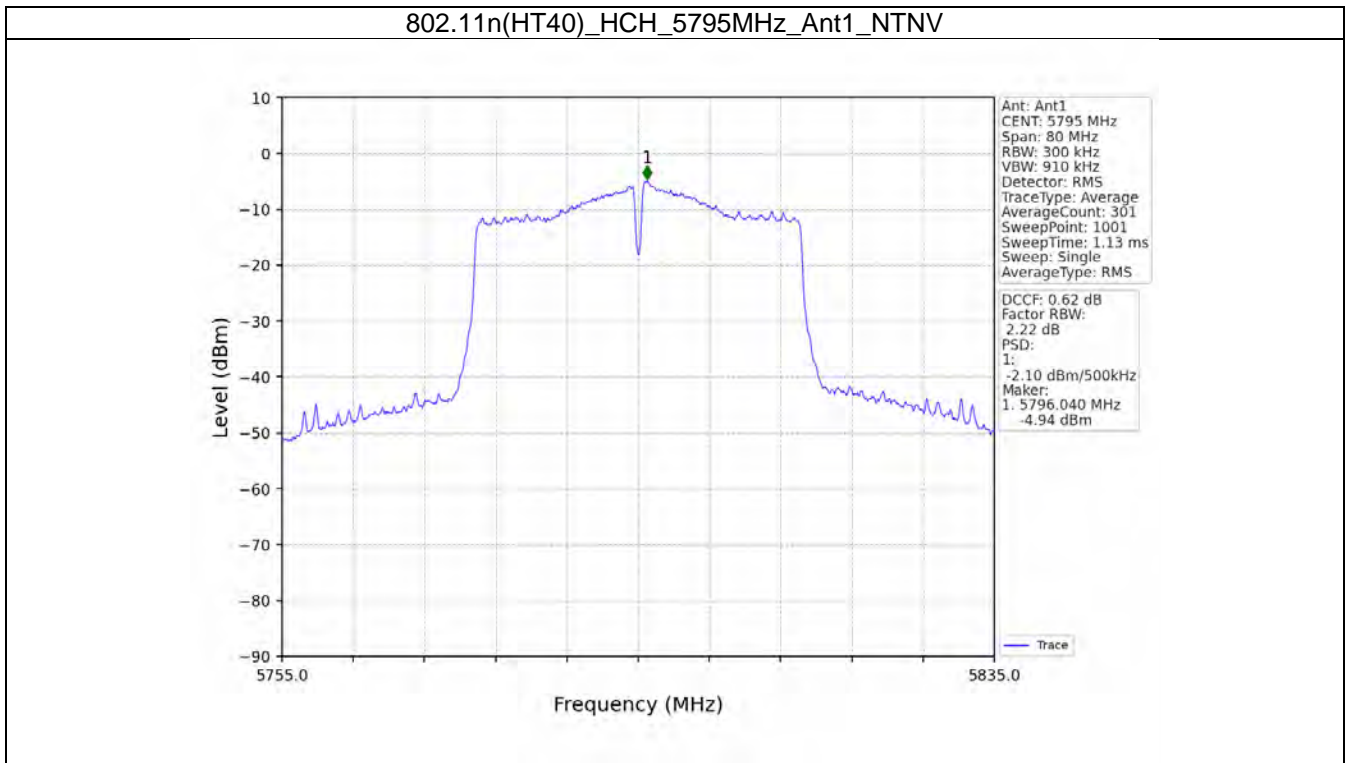


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

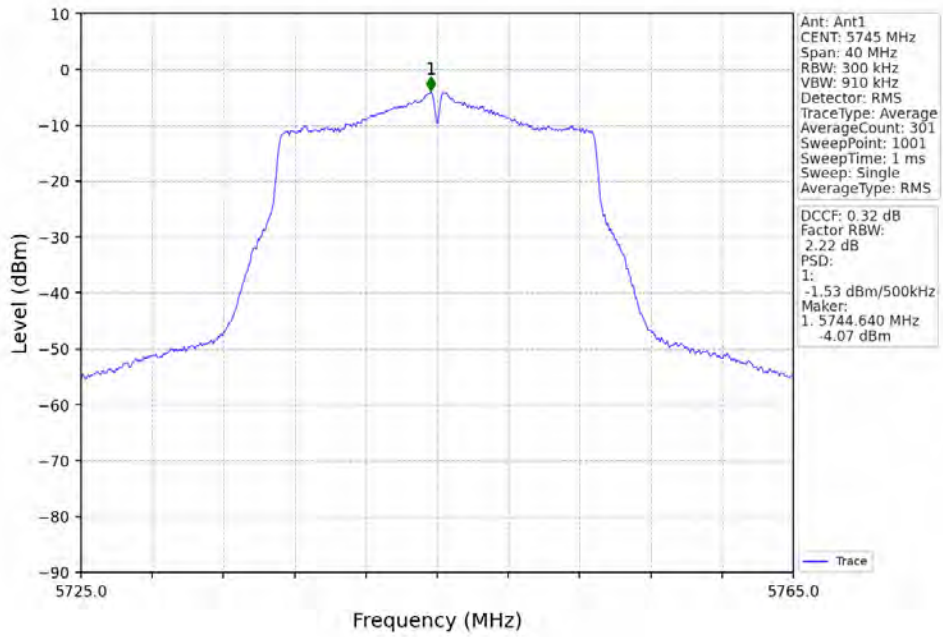


802.11n(HT40)_LCH_5755MHz_Ant2_NTNV

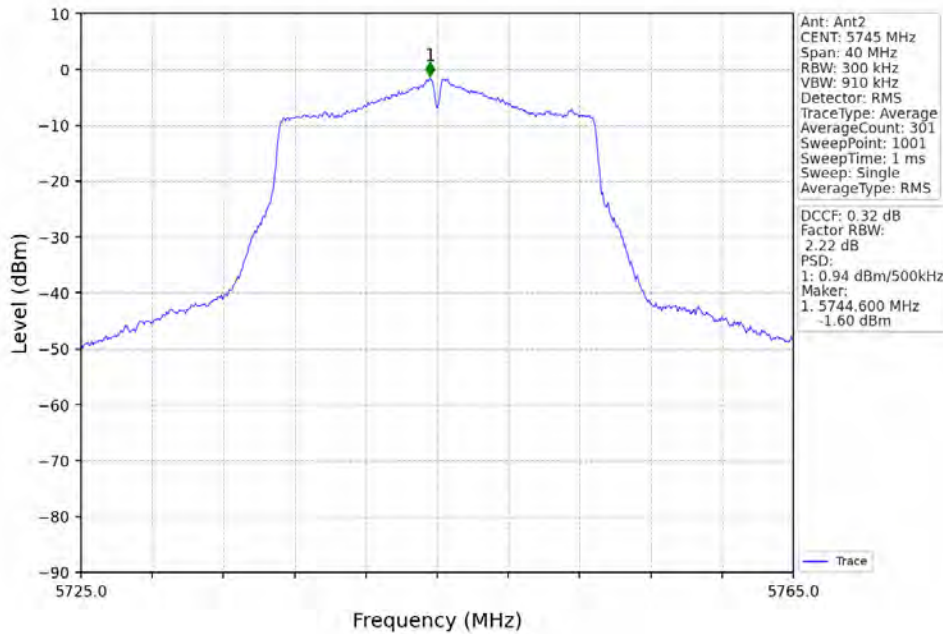




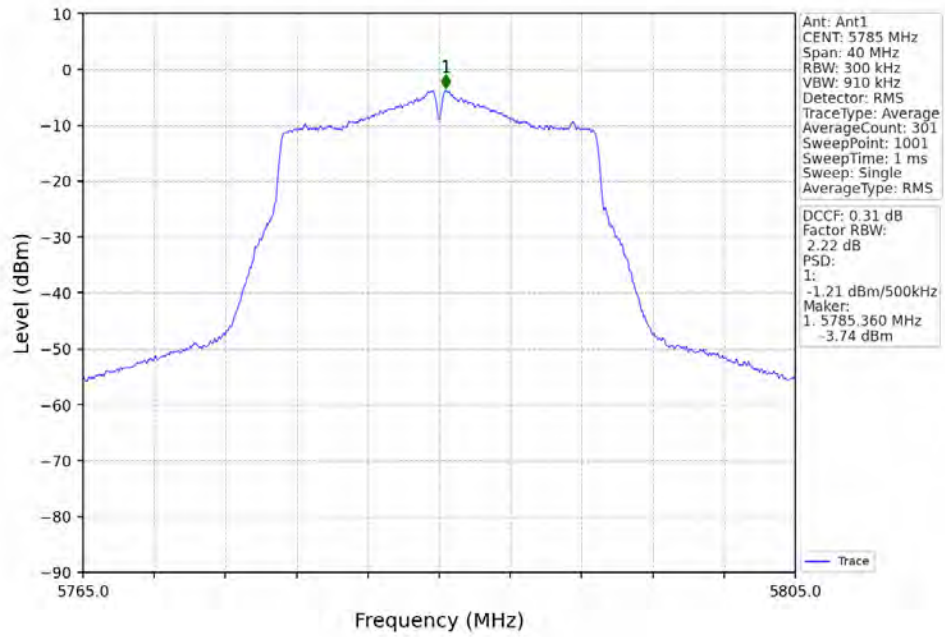
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



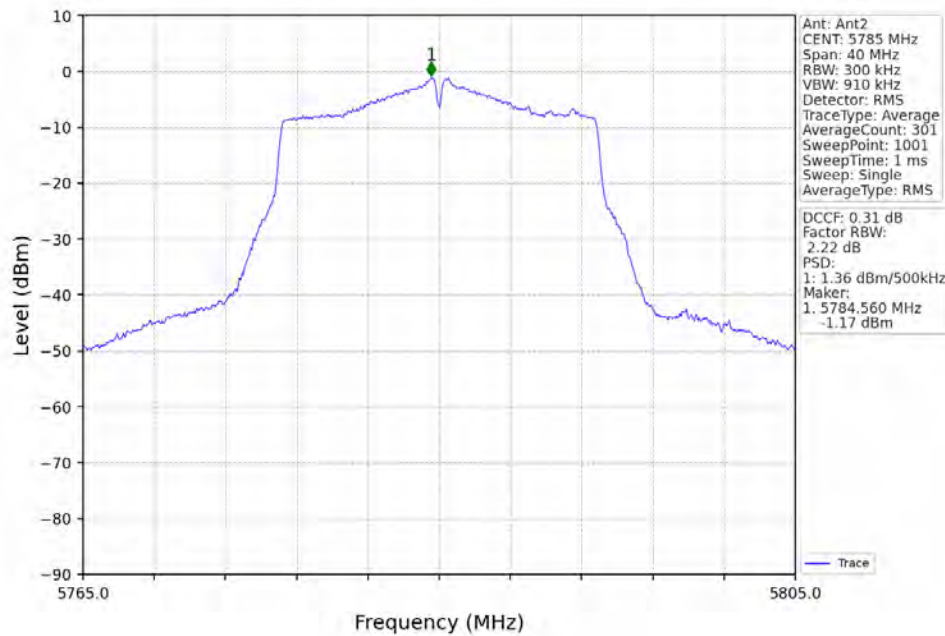
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV

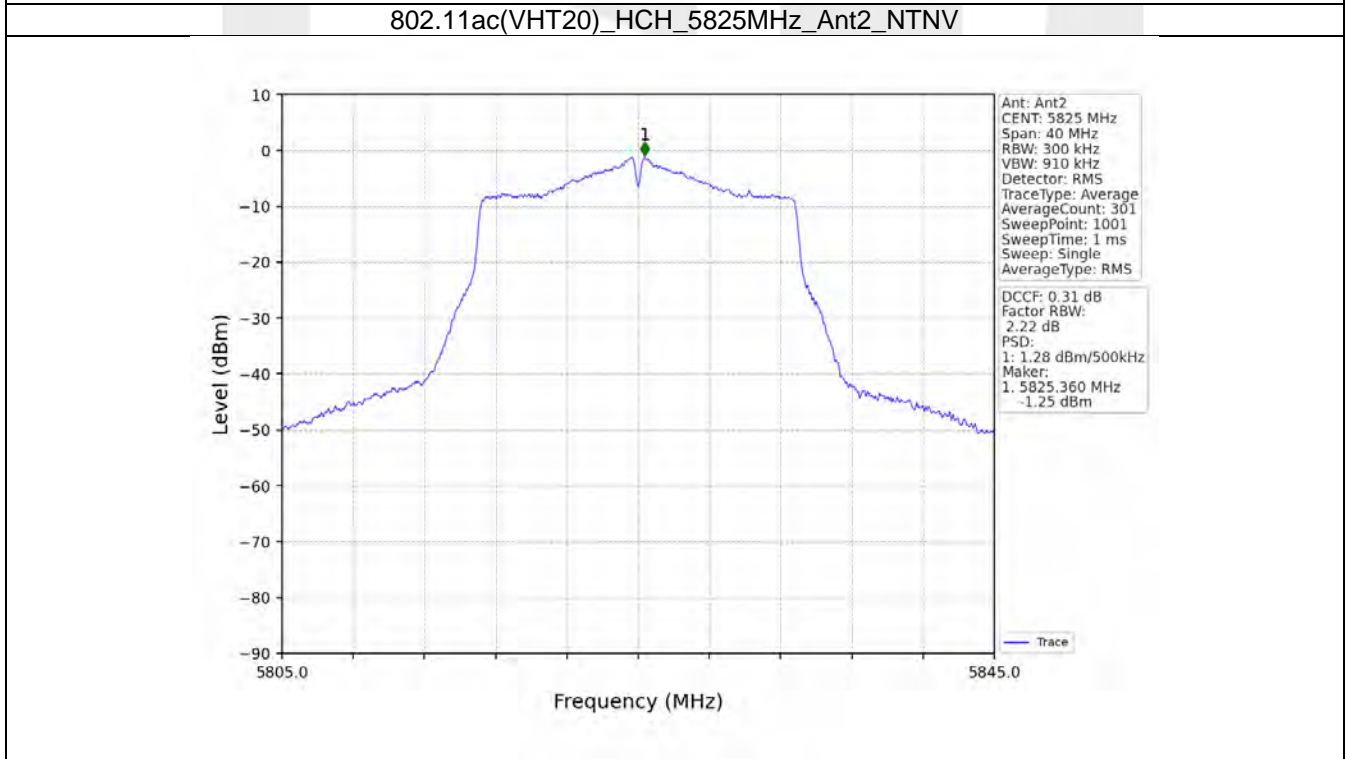
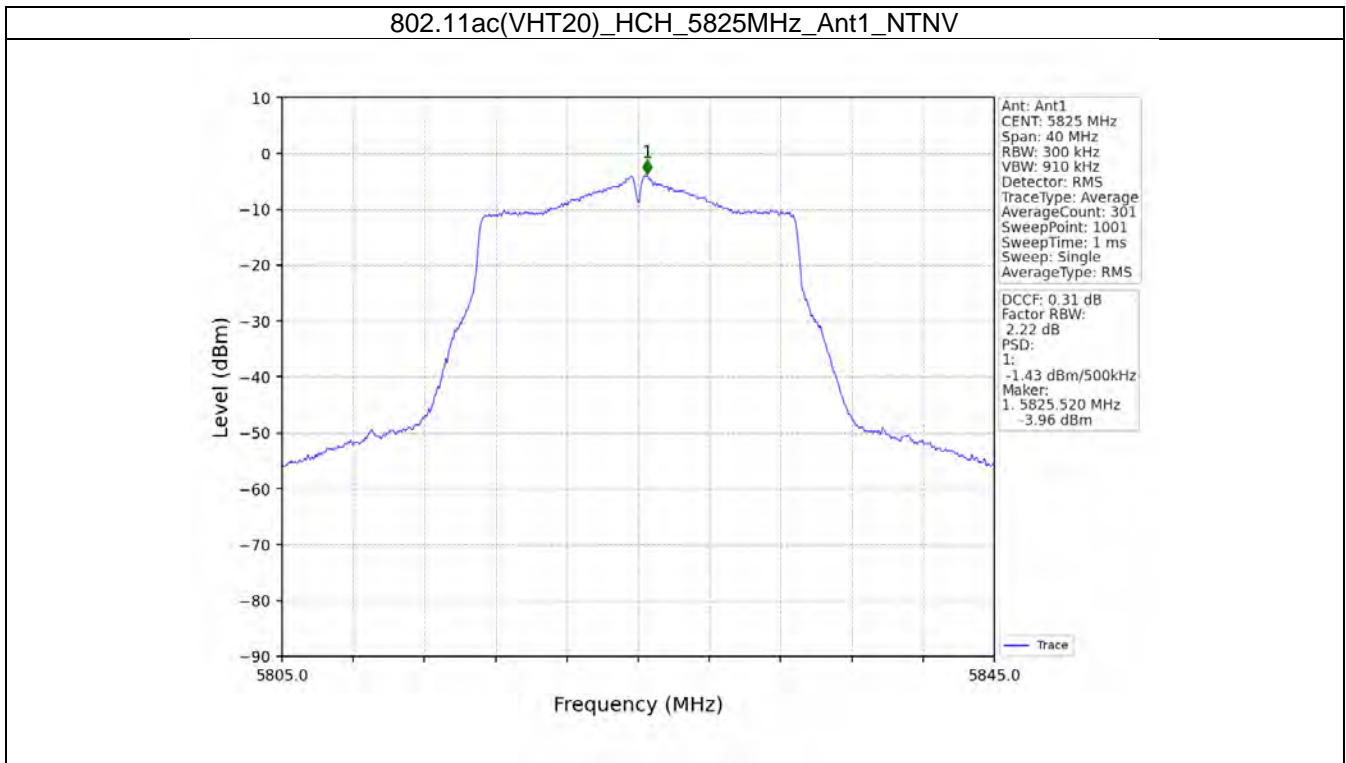


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

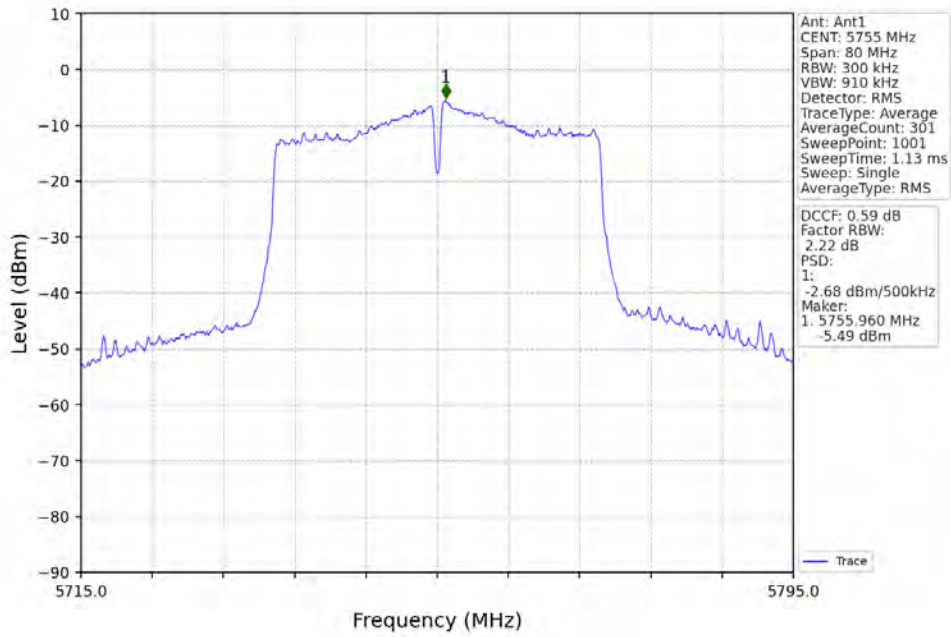


802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV

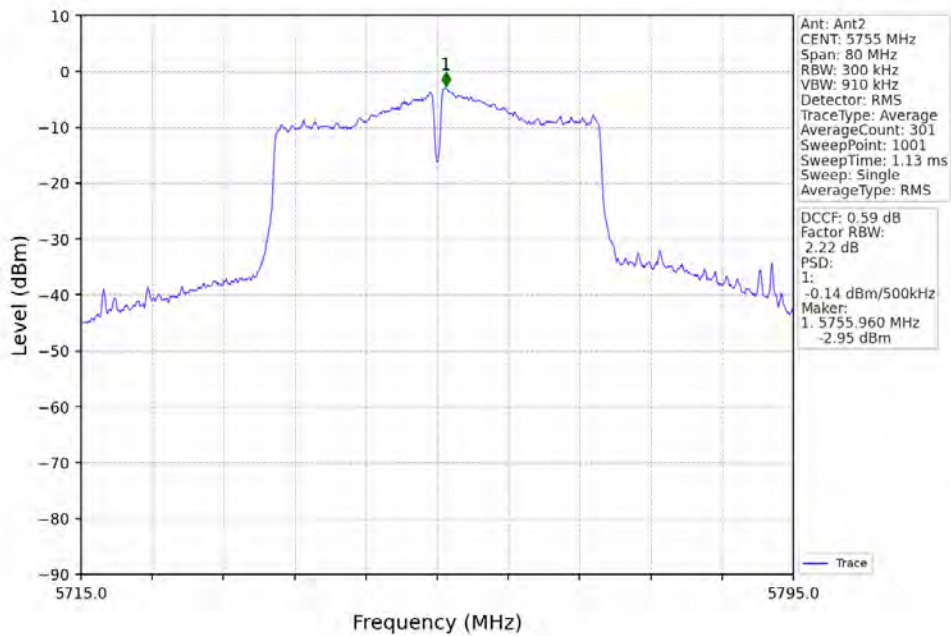




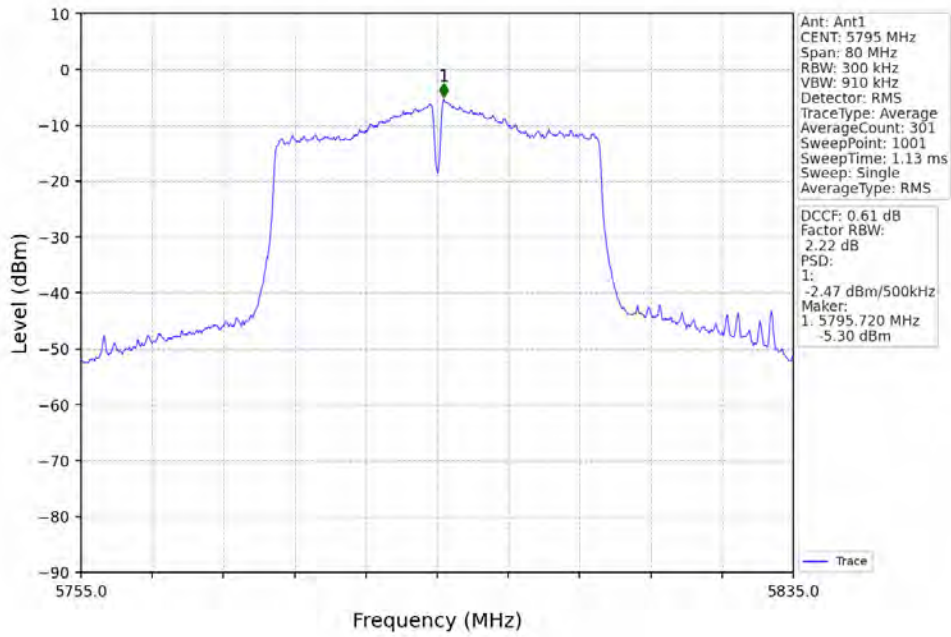
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



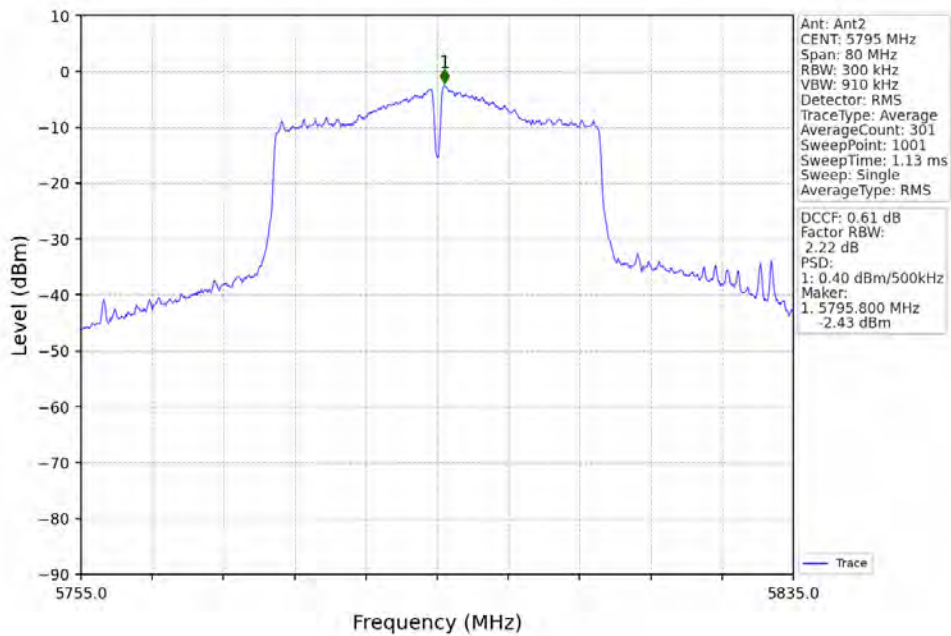
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV

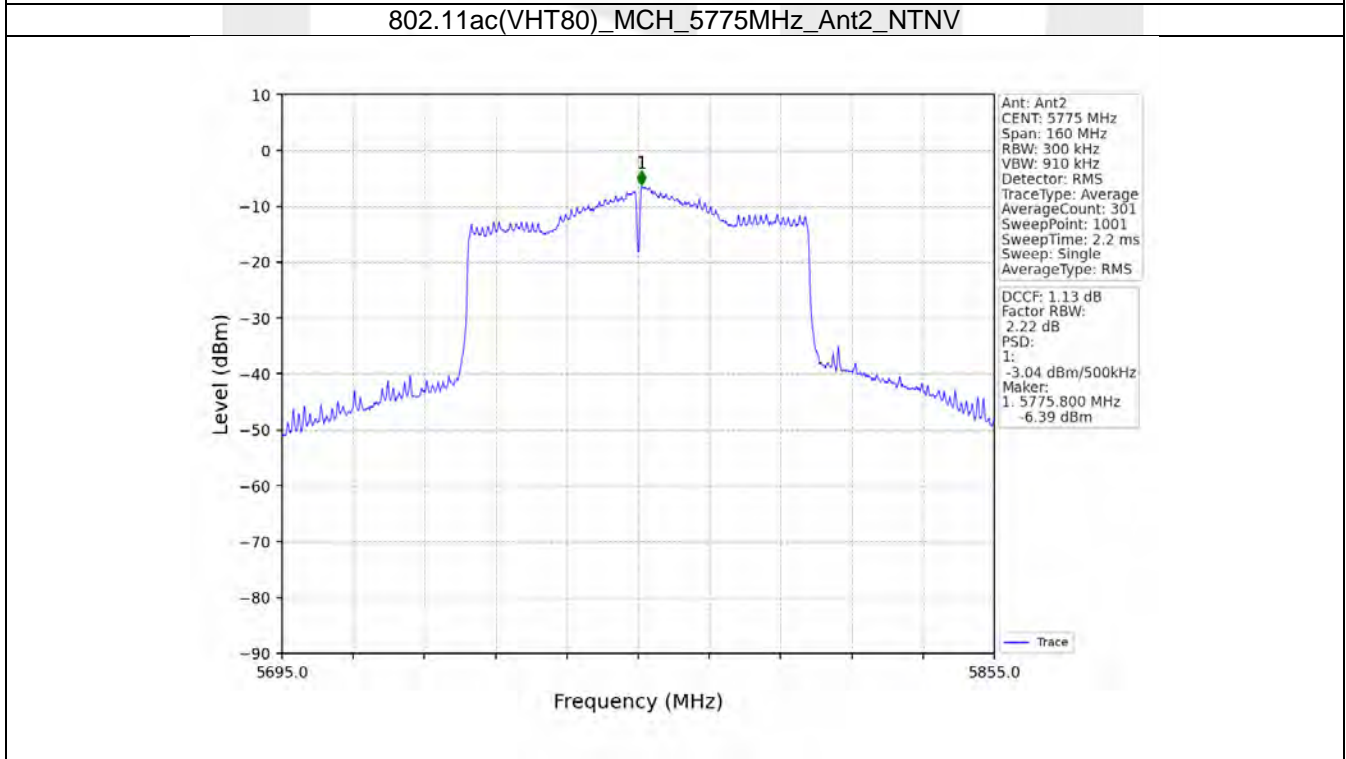
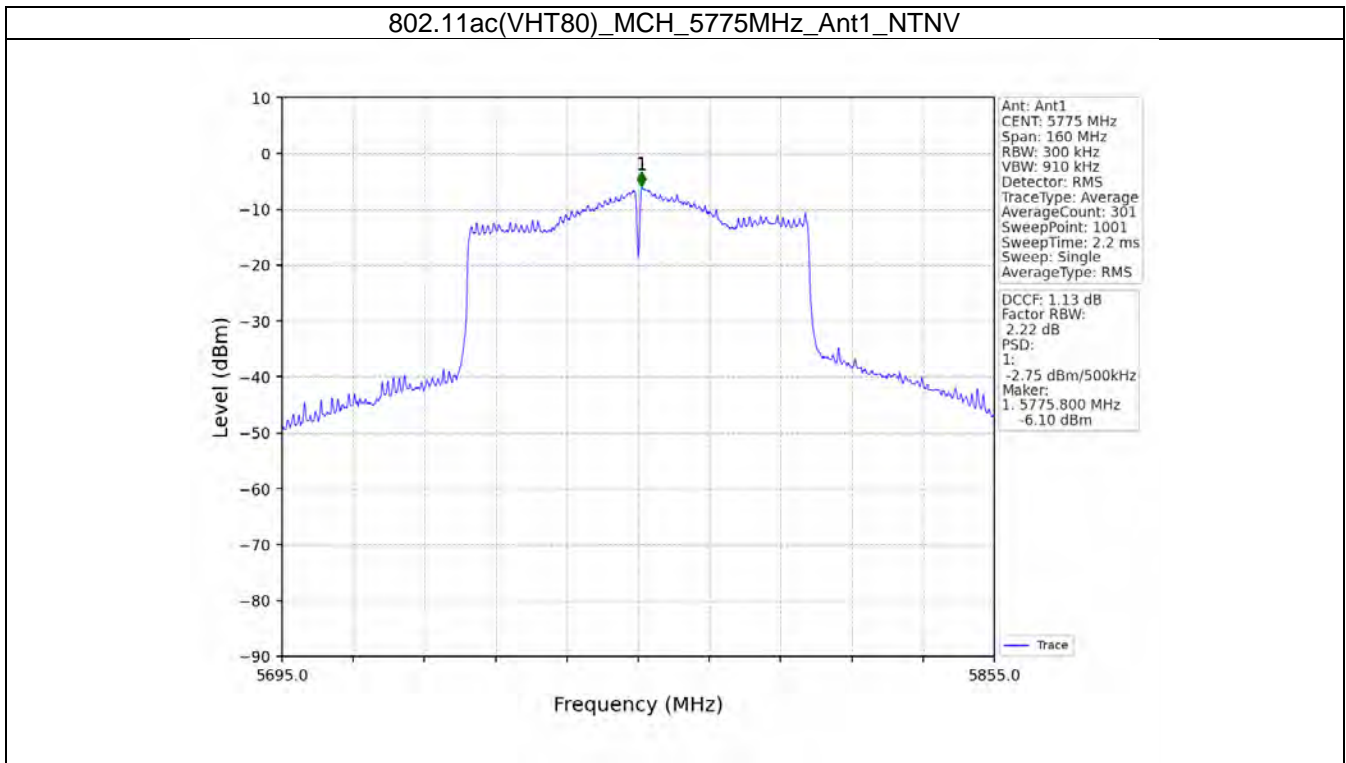


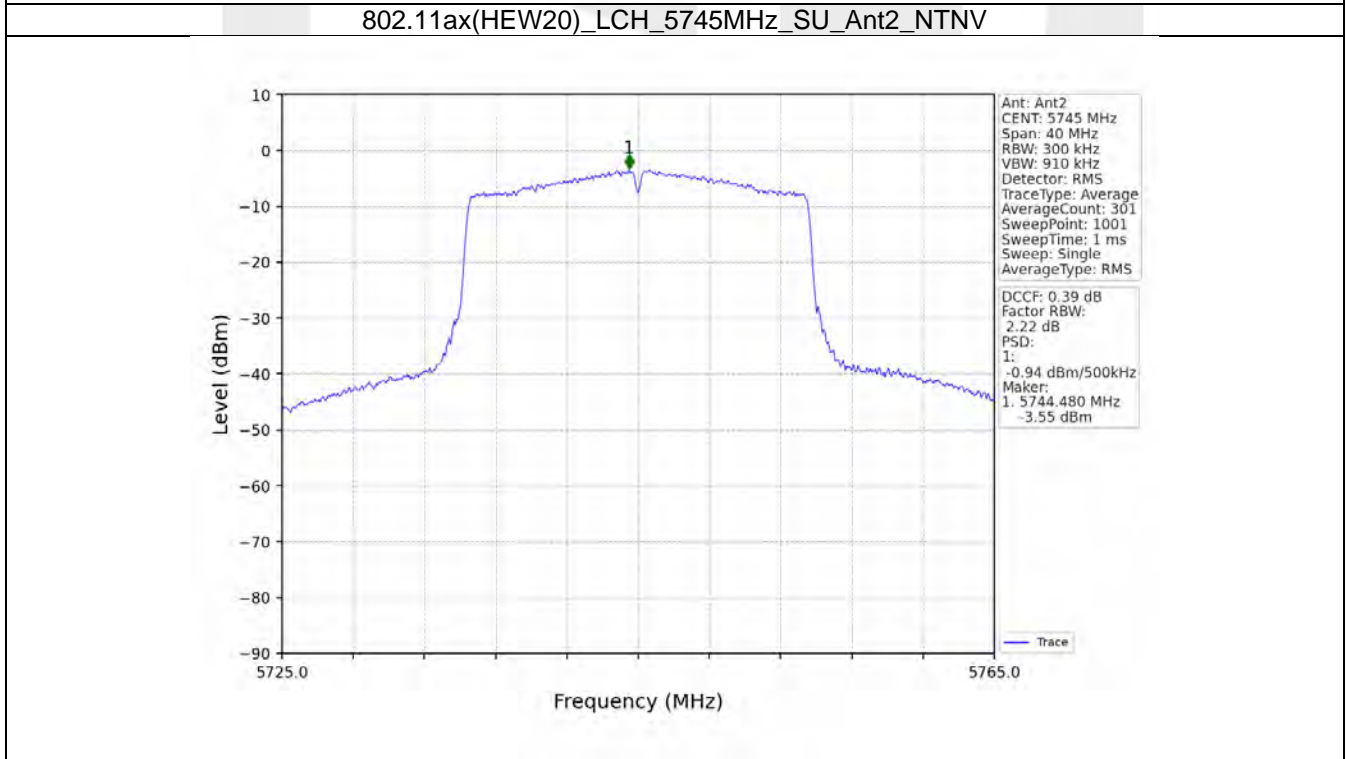
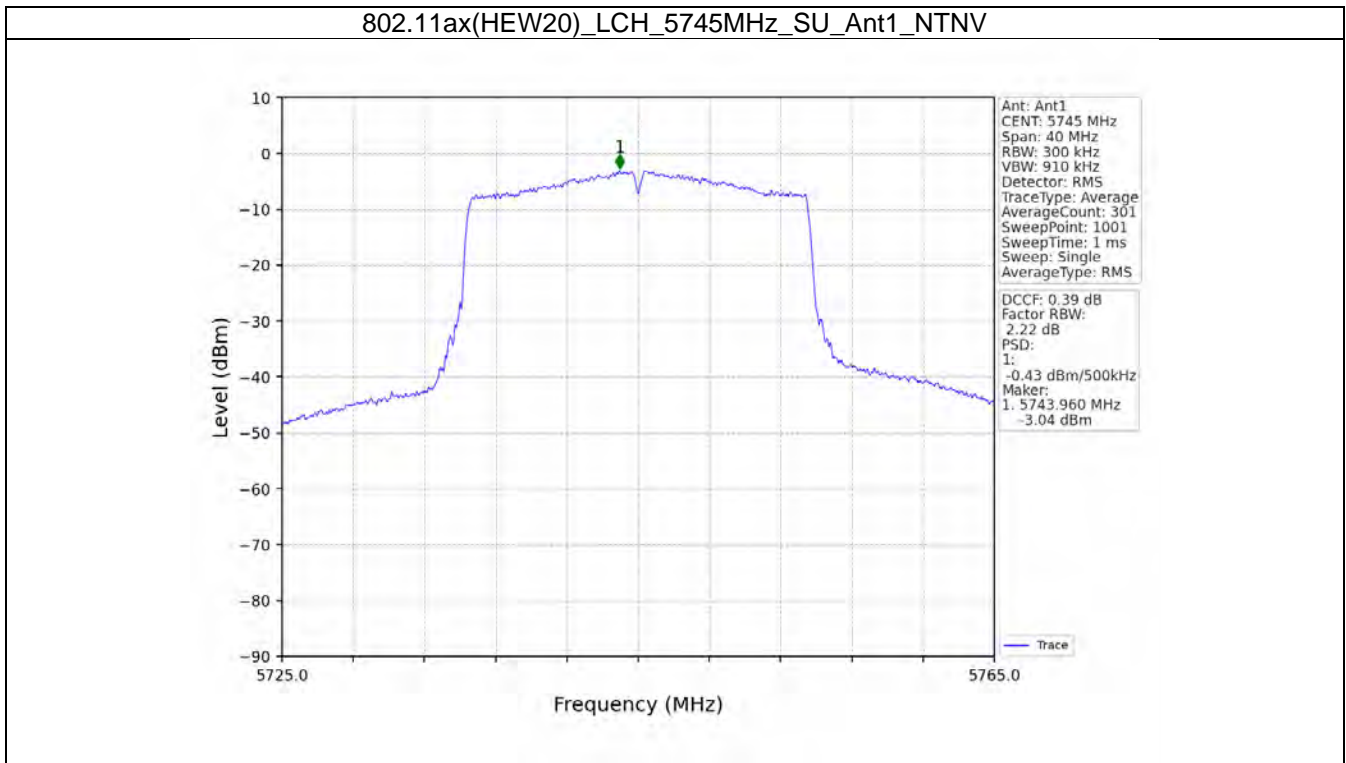
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

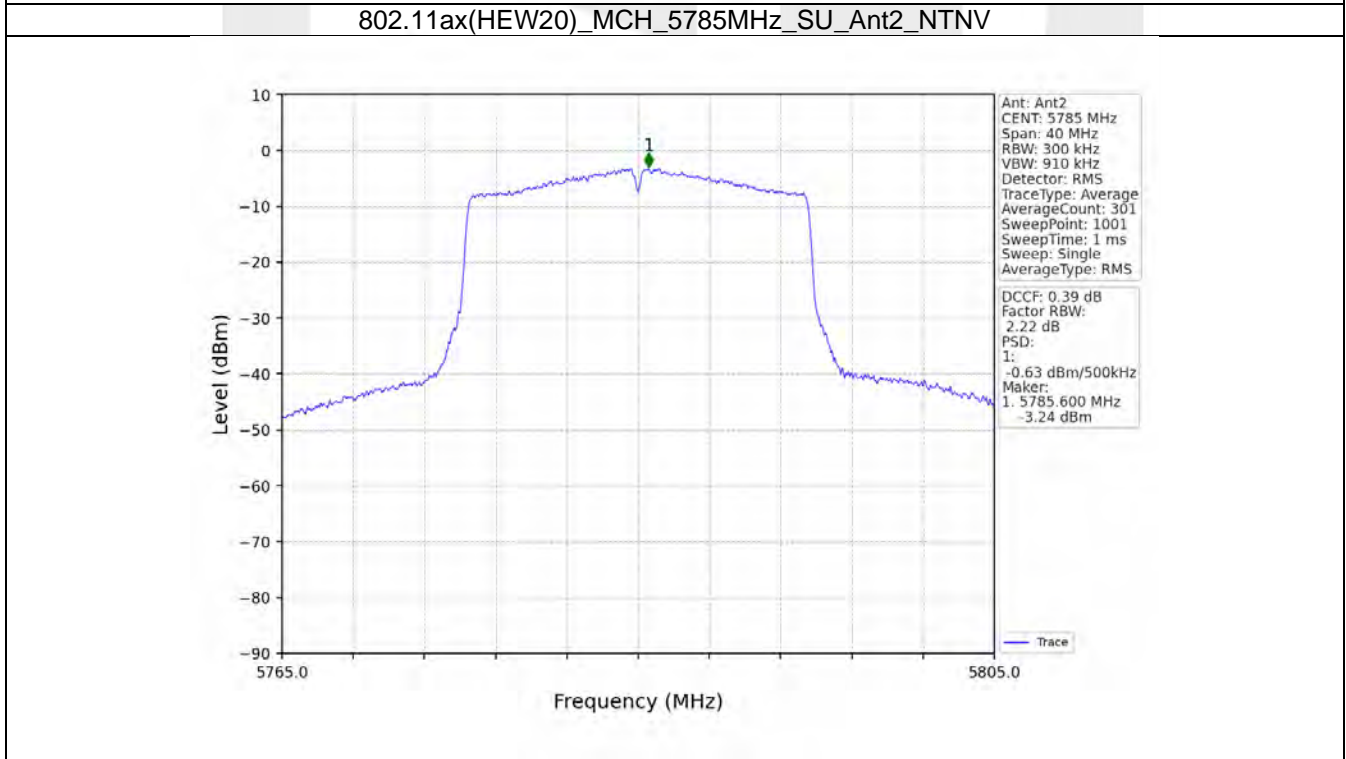
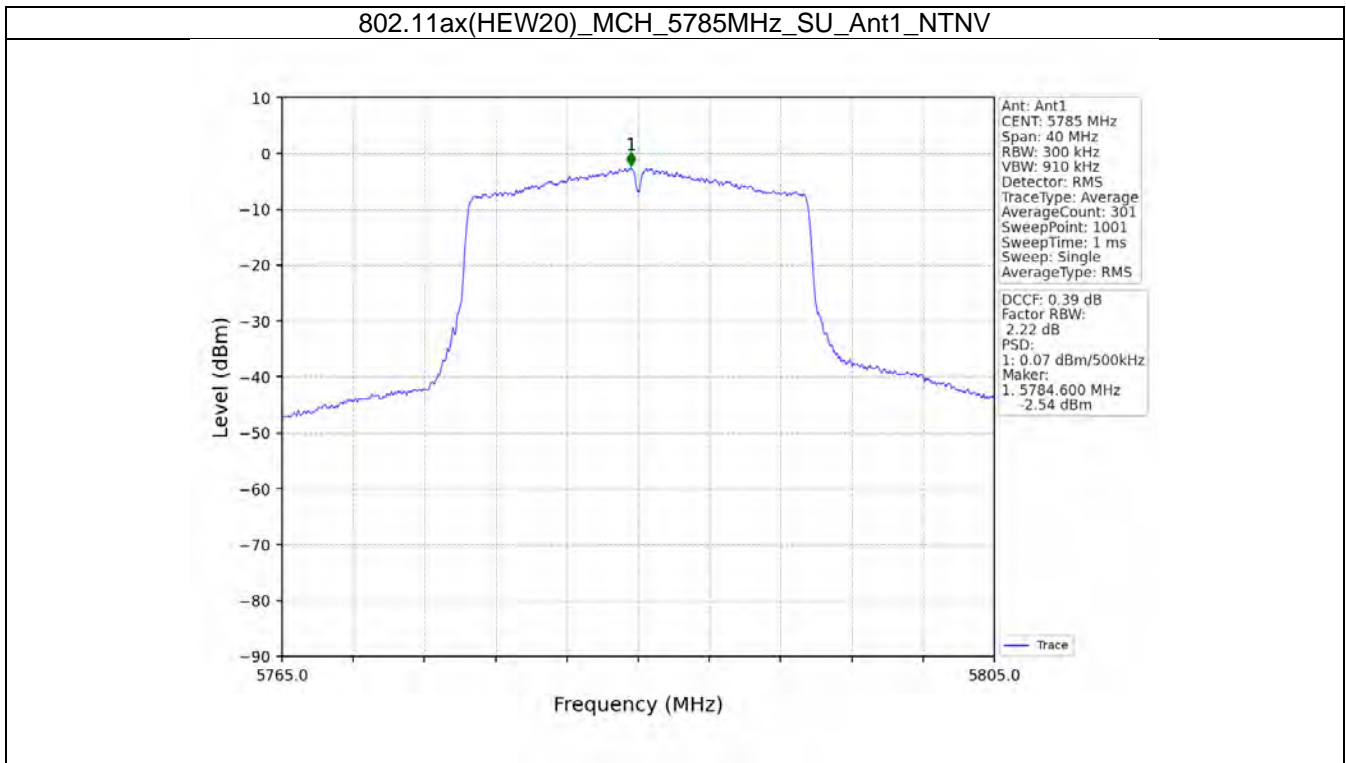


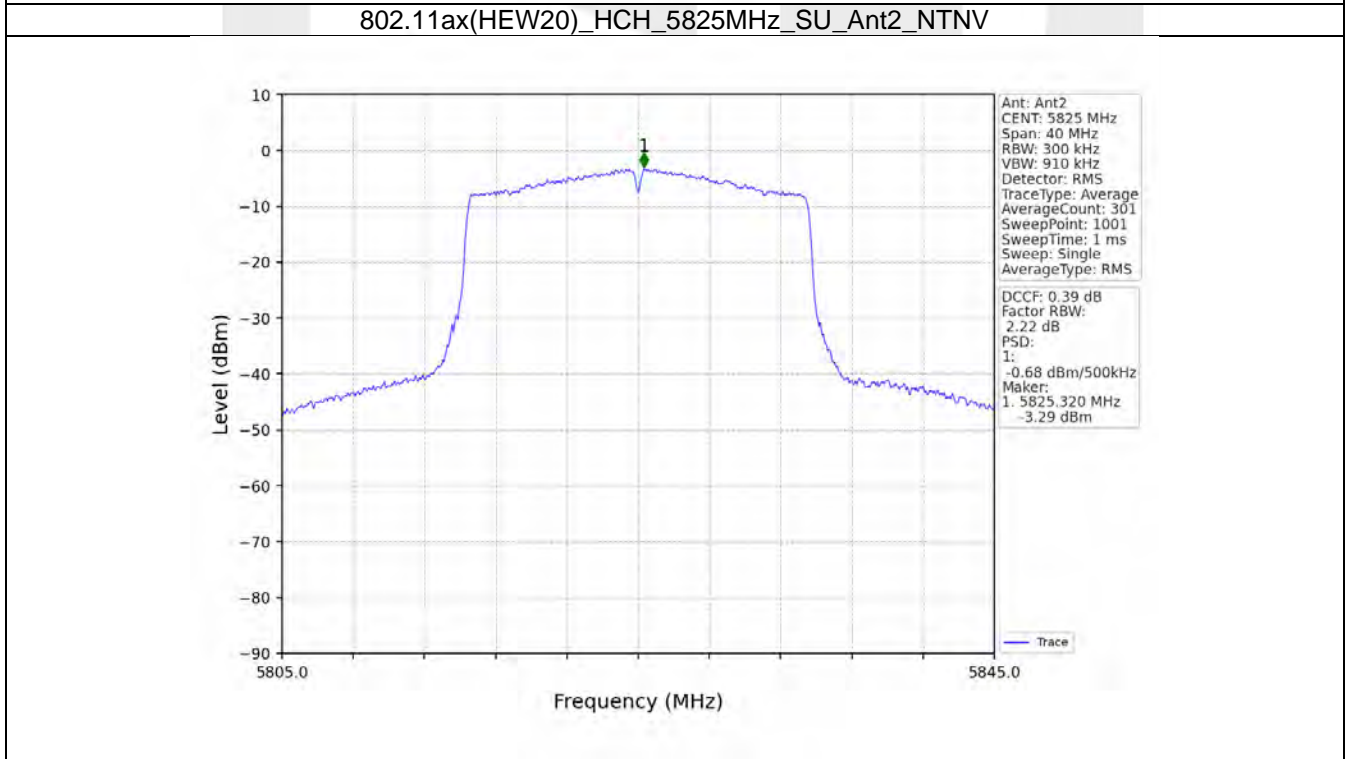
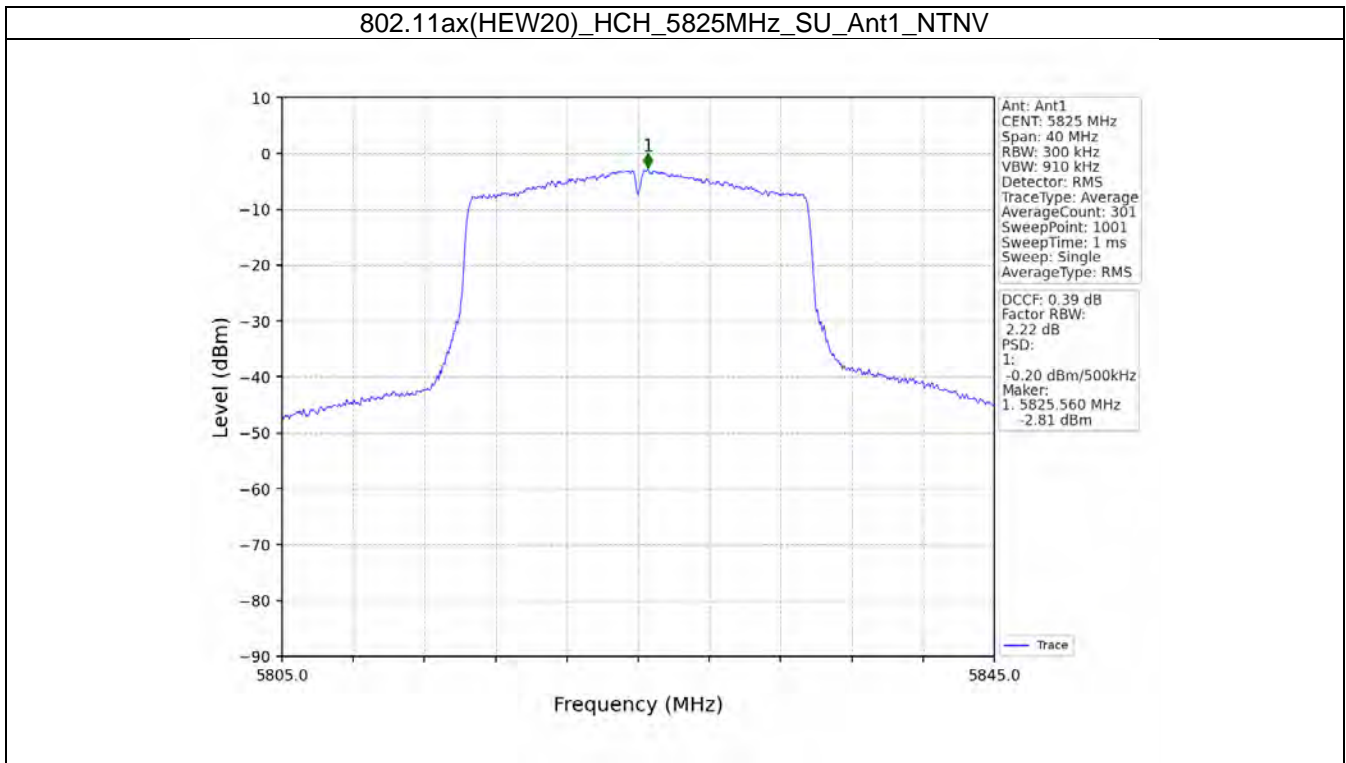
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV

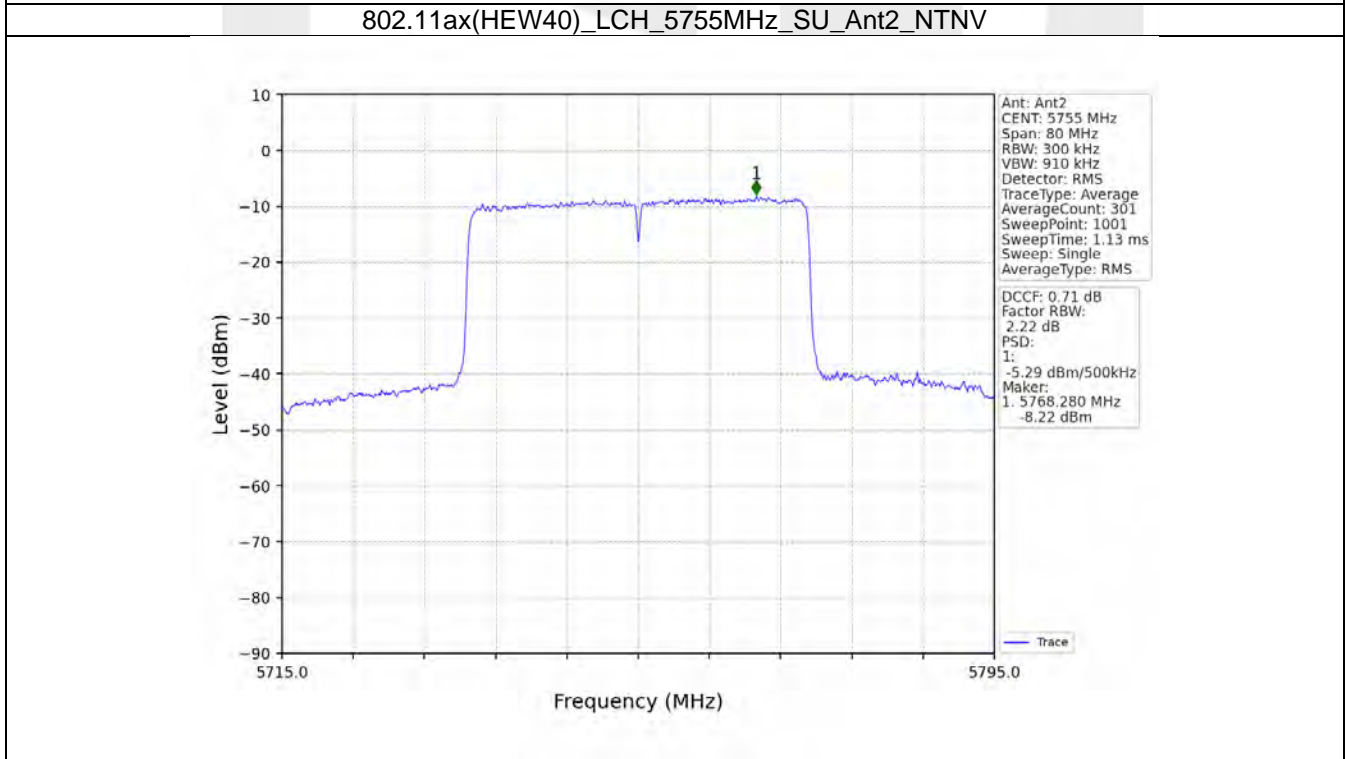
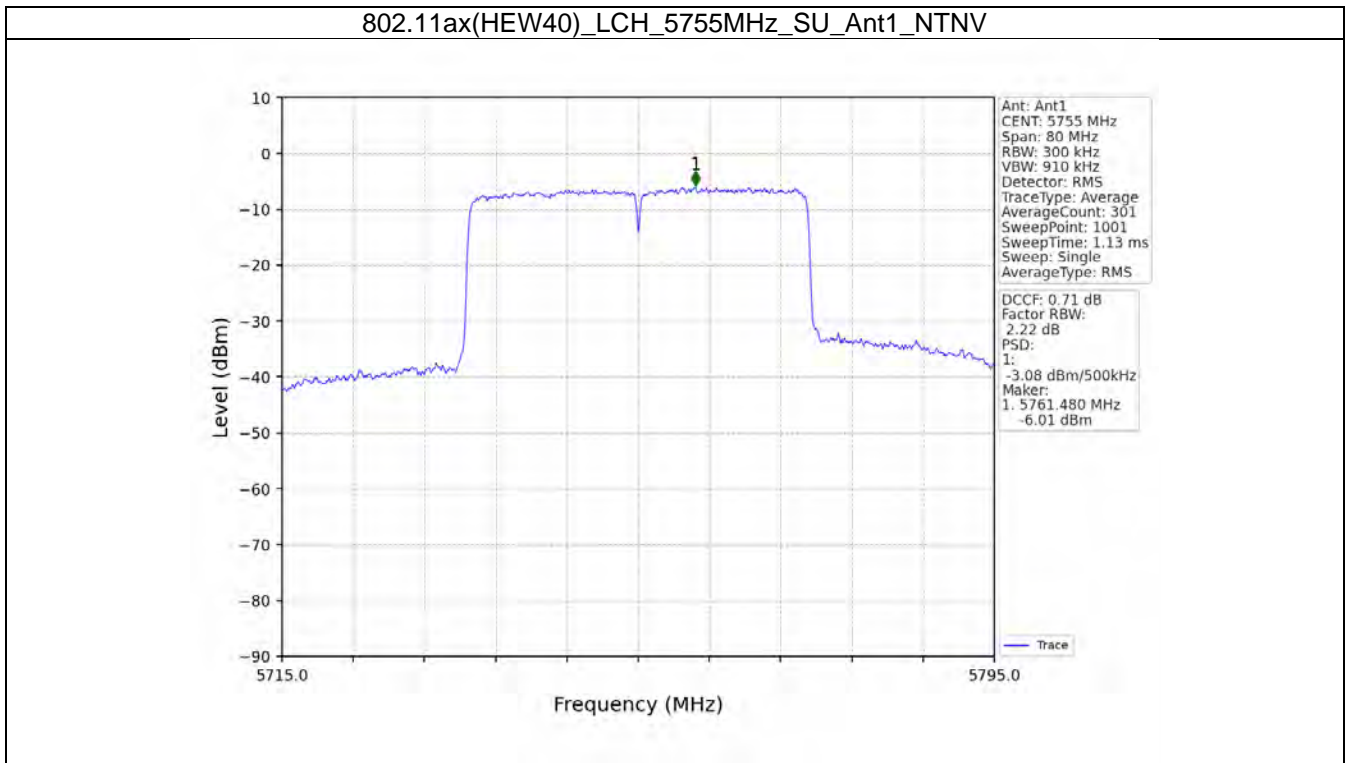


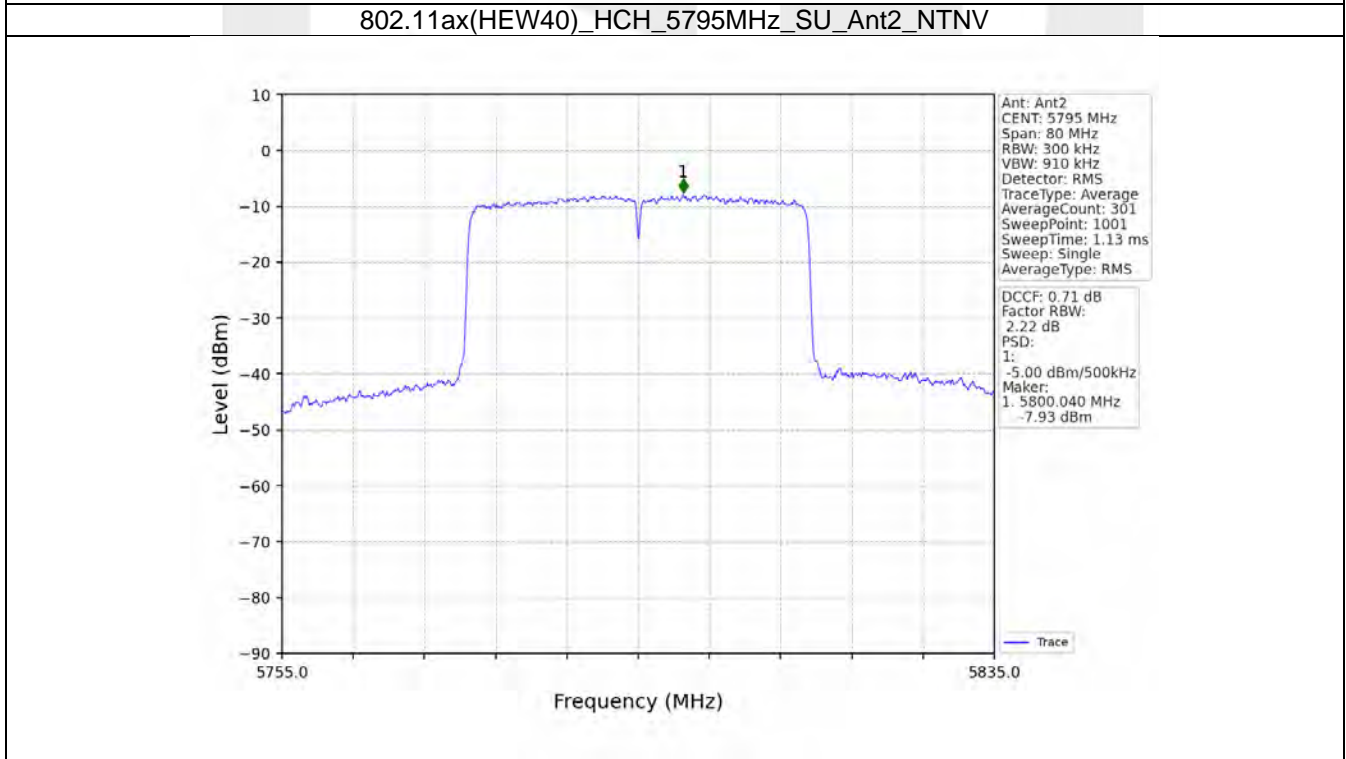
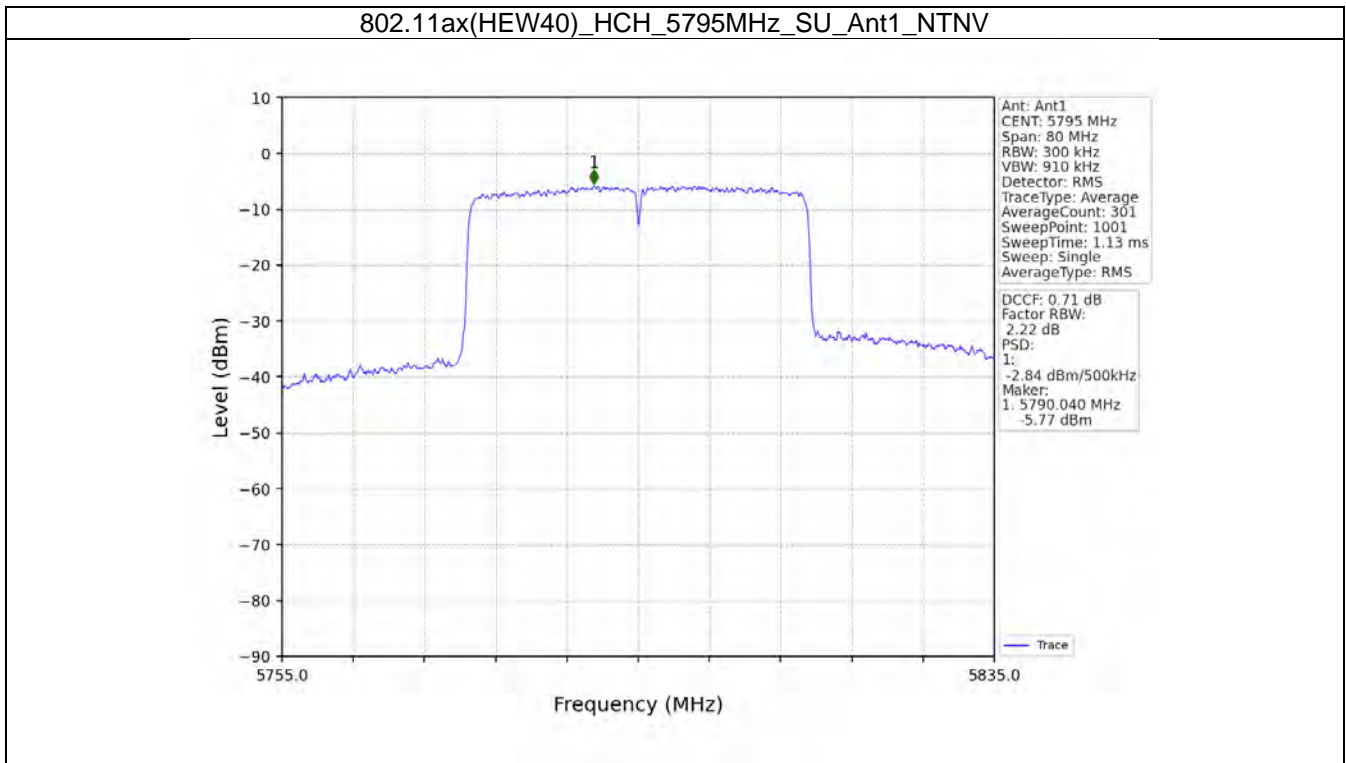


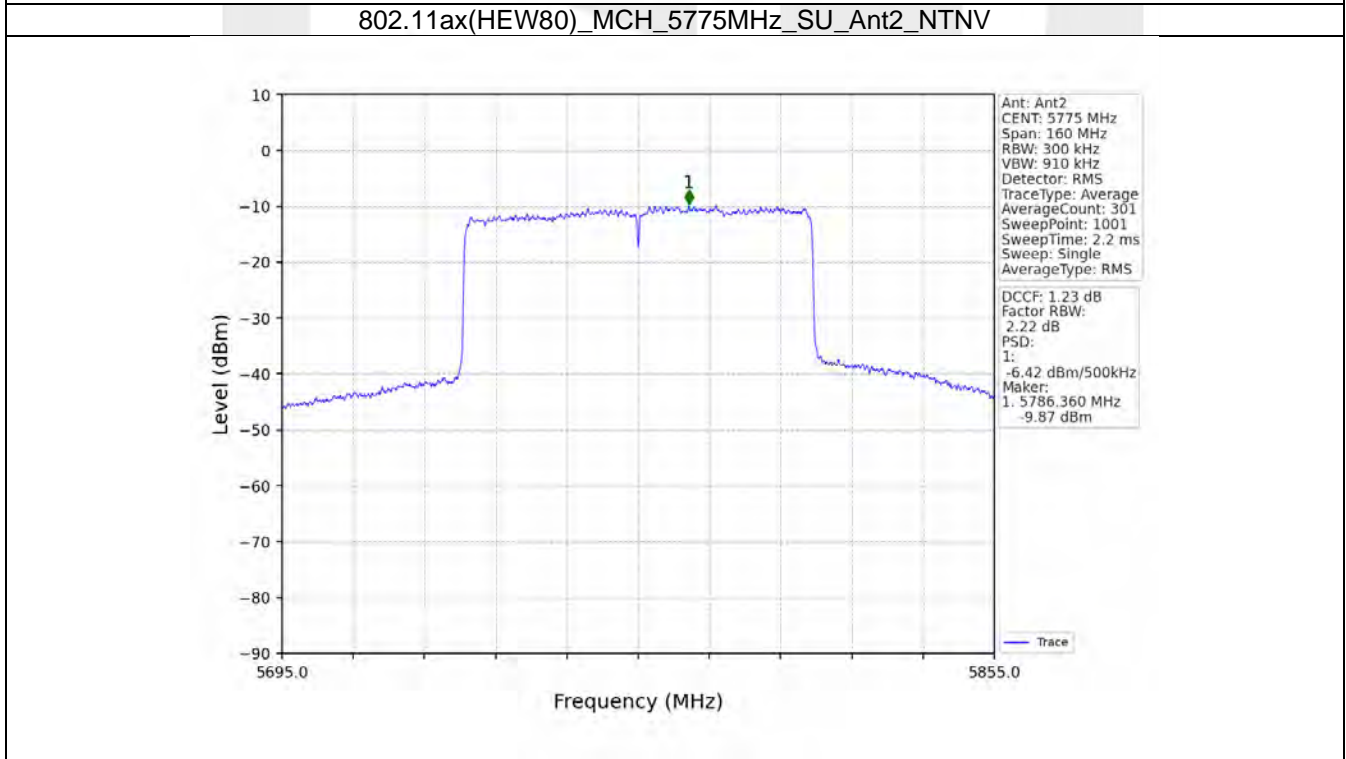
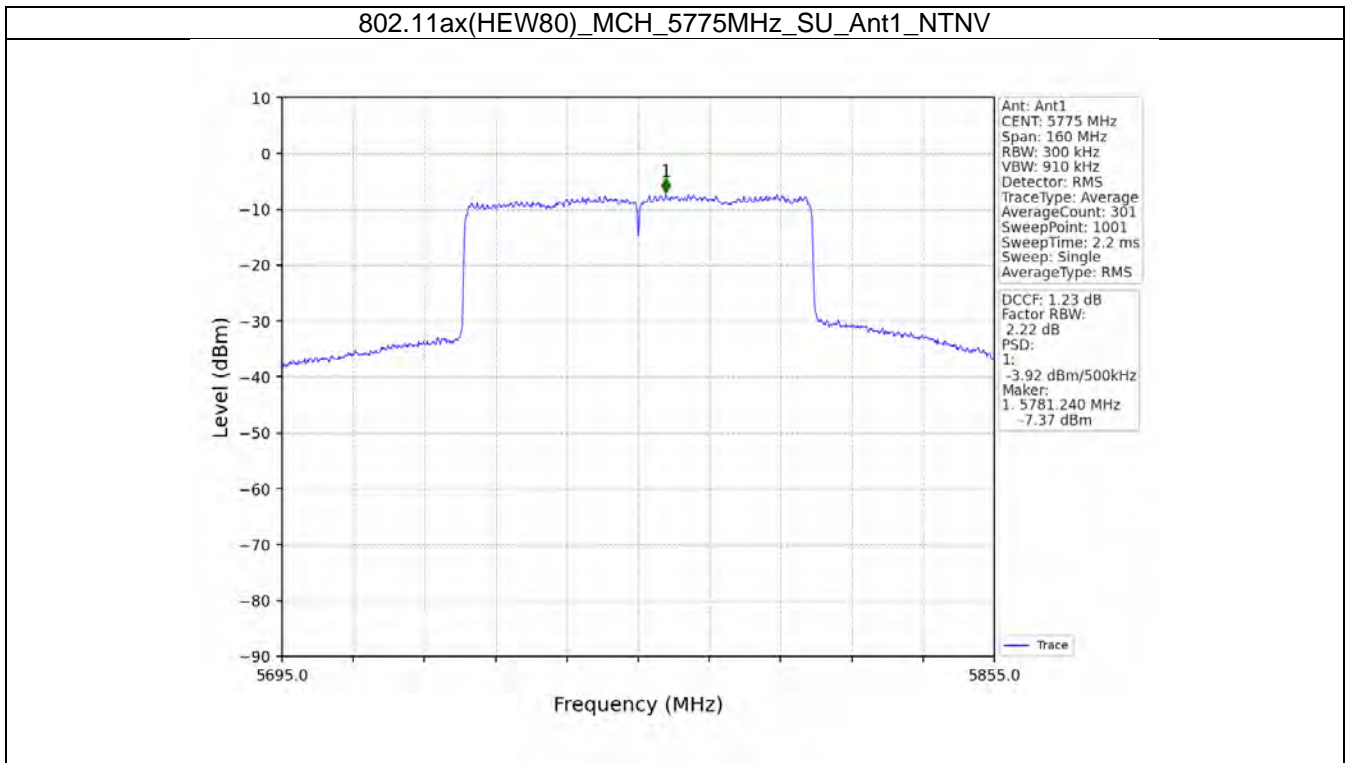












5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
Carrier Wave	SISO	5180	20	102	5179.960	5150 to 5250	Pass	
				120	5179.960	5150 to 5250	Pass	
				138	5179.960	5150 to 5250	Pass	
			-30	120	5179.960	5150 to 5250	Pass	
				-20	120	5179.960	5150 to 5250	Pass
					120	5179.960	5150 to 5250	Pass
			-10	120	5179.960	5150 to 5250	Pass	
				120	5179.960	5150 to 5250	Pass	
			0	120	5179.960	5150 to 5250	Pass	
				120	5179.960	5150 to 5250	Pass	
			10	120	5179.960	5150 to 5250	Pass	
				120	5179.960	5150 to 5250	Pass	
		30	120	5179.960	5150 to 5250	Pass		
			120	5179.960	5150 to 5250	Pass		
		40	120	5179.960	5150 to 5250	Pass		
			120	5179.960	5150 to 5250	Pass		
		50	120	5179.960	5150 to 5250	Pass		
			120	5179.960	5150 to 5250	Pass		
		5200	20	5200	102	5199.960	5150 to 5250	Pass
					120	5199.960	5150 to 5250	Pass
					138	5199.960	5150 to 5250	Pass
			-30	120	5199.960	5150 to 5250	Pass	
				-20	120	5199.960	5150 to 5250	Pass
					120	5199.960	5150 to 5250	Pass
			-10	120	5199.960	5150 to 5250	Pass	
				120	5199.960	5150 to 5250	Pass	
			0	120	5199.960	5150 to 5250	Pass	
				120	5199.960	5150 to 5250	Pass	
			10	120	5199.960	5150 to 5250	Pass	
				120	5199.960	5150 to 5250	Pass	
		30	120	5199.960	5150 to 5250	Pass		
			120	5199.960	5150 to 5250	Pass		
		40	120	5199.960	5150 to 5250	Pass		
			120	5199.960	5150 to 5250	Pass		
		50	120	5199.960	5150 to 5250	Pass		
			120	5199.960	5150 to 5250	Pass		
		5240	20	5240	102	5239.960	5150 to 5250	Pass
					120	5239.960	5150 to 5250	Pass
					138	5239.960	5150 to 5250	Pass
			-30	120	5239.960	5150 to 5250	Pass	
				-20	120	5239.960	5150 to 5250	Pass
					120	5239.960	5150 to 5250	Pass
-10	120		5239.960	5150 to 5250	Pass			
	120		5239.960	5150 to 5250	Pass			
0	120		5239.960	5150 to 5250	Pass			
	120		5239.960	5150 to 5250	Pass			
10	120		5239.960	5150 to 5250	Pass			
	120		5239.960	5150 to 5250	Pass			
30	120	5239.960	5150 to 5250	Pass				
	120	5239.960	5150 to 5250	Pass				
40	120	5239.960	5150 to 5250	Pass				
	120	5239.960	5150 to 5250	Pass				
50	120	5239.960	5150 to 5250	Pass				
	120	5239.960	5150 to 5250	Pass				
5745	20	5745	102	5744.956	5725 to 5850	Pass		
			120	5744.956	5725 to 5850	Pass		
			138	5744.956	5725 to 5850	Pass		
	-30	120	5744.956	5725 to 5850	Pass			
		-20	120	5744.956	5725 to 5850	Pass		
			120	5744.956	5725 to 5850	Pass		
	-10	120	5744.956	5725 to 5850	Pass			
		120	5744.956	5725 to 5850	Pass			
	0	120	5744.956	5725 to 5850	Pass			
		120	5744.956	5725 to 5850	Pass			
10	120	5744.956	5725 to 5850	Pass				
	120	5744.956	5725 to 5850	Pass				

			30	120	5744.956	5725 to 5850	Pass
			40	120	5744.956	5725 to 5850	Pass
			50	120	5744.957	5725 to 5850	Pass
		5785	20	102	5784.956	5725 to 5850	Pass
				120	5784.956	5725 to 5850	Pass
				138	5784.956	5725 to 5850	Pass
			-30	120	5784.956	5725 to 5850	Pass
			-20	120	5784.956	5725 to 5850	Pass
			-10	120	5784.956	5725 to 5850	Pass
			0	120	5784.956	5725 to 5850	Pass
			10	120	5784.956	5725 to 5850	Pass
			30	120	5784.956	5725 to 5850	Pass
			40	120	5784.956	5725 to 5850	Pass
			50	120	5784.956	5725 to 5850	Pass
			5825	20	102	5824.955	5725 to 5850
		120			5824.955	5725 to 5850	Pass
		138			5824.956	5725 to 5850	Pass
		-30		120	5824.956	5725 to 5850	Pass
		-20		120	5824.956	5725 to 5850	Pass
		-10		120	5824.956	5725 to 5850	Pass
		0		120	5824.956	5725 to 5850	Pass
		10		120	5824.956	5725 to 5850	Pass
		30		120	5824.956	5725 to 5850	Pass
		40		120	5824.956	5725 to 5850	Pass
		50		120	5824.956	5725 to 5850	Pass
		5190		20	102	5189.960	5150 to 5250
			120		5189.961	5150 to 5250	Pass
			138		5189.961	5150 to 5250	Pass
			-30	120	5189.961	5150 to 5250	Pass
			-20	120	5189.961	5150 to 5250	Pass
			-10	120	5189.961	5150 to 5250	Pass
			0	120	5189.961	5150 to 5250	Pass
			10	120	5189.961	5150 to 5250	Pass
			30	120	5189.961	5150 to 5250	Pass
			40	120	5189.961	5150 to 5250	Pass
			50	120	5189.962	5150 to 5250	Pass
			5230	20	102	5229.960	5150 to 5250
		120			5229.960	5150 to 5250	Pass
		138			5229.960	5150 to 5250	Pass
		-30		120	5229.961	5150 to 5250	Pass
		-20		120	5229.961	5150 to 5250	Pass
		-10		120	5229.961	5150 to 5250	Pass
		0		120	5229.961	5150 to 5250	Pass
		10		120	5229.961	5150 to 5250	Pass
		30		120	5229.961	5150 to 5250	Pass
		40		120	5229.961	5150 to 5250	Pass
		50		120	5229.961	5150 to 5250	Pass
5755	20	102		5754.956	5725 to 5850	Pass	
		120	5754.956	5725 to 5850	Pass		
		138	5754.956	5725 to 5850	Pass		
	-30	120	5754.956	5725 to 5850	Pass		
	-20	120	5754.956	5725 to 5850	Pass		

			-10	120	5754.957	5725 to 5850	Pass	
			0	120	5754.957	5725 to 5850	Pass	
			10	120	5754.957	5725 to 5850	Pass	
			30	120	5754.957	5725 to 5850	Pass	
			40	120	5754.957	5725 to 5850	Pass	
			50	120	5754.957	5725 to 5850	Pass	
		5795	20	102	5794.956	5725 to 5850	Pass	
					120	5794.956	5725 to 5850	Pass
					138	5794.956	5725 to 5850	Pass
				-30	120	5794.956	5725 to 5850	Pass
				-20	120	5794.956	5725 to 5850	Pass
				-10	120	5794.956	5725 to 5850	Pass
				0	120	5794.956	5725 to 5850	Pass
				10	120	5794.957	5725 to 5850	Pass
				30	120	5794.957	5725 to 5850	Pass
				40	120	5794.957	5725 to 5850	Pass
				50	120	5794.957	5725 to 5850	Pass
			5210	20	102	5209.960	5150 to 5250	Pass
						120	5209.961	5150 to 5250
					138	5209.961	5150 to 5250	Pass
				-30	120	5209.961	5150 to 5250	Pass
				-20	120	5209.961	5150 to 5250	Pass
				-10	120	5209.961	5150 to 5250	Pass
				0	120	5209.961	5150 to 5250	Pass
				10	120	5209.961	5150 to 5250	Pass
				30	120	5209.961	5150 to 5250	Pass
				40	120	5209.961	5150 to 5250	Pass
				50	120	5209.962	5150 to 5250	Pass
		5775		20	102	5774.957	5725 to 5850	Pass
						120	5774.956	5725 to 5850
					138	5774.956	5725 to 5850	Pass
				-30	120	5774.956	5725 to 5850	Pass
				-20	120	5774.956	5725 to 5850	Pass
				-10	120	5774.956	5725 to 5850	Pass
				0	120	5774.956	5725 to 5850	Pass
				10	120	5774.956	5725 to 5850	Pass
				30	120	5774.957	5725 to 5850	Pass
				40	120	5774.957	5725 to 5850	Pass
			50	120	5774.957	5725 to 5850	Pass	

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