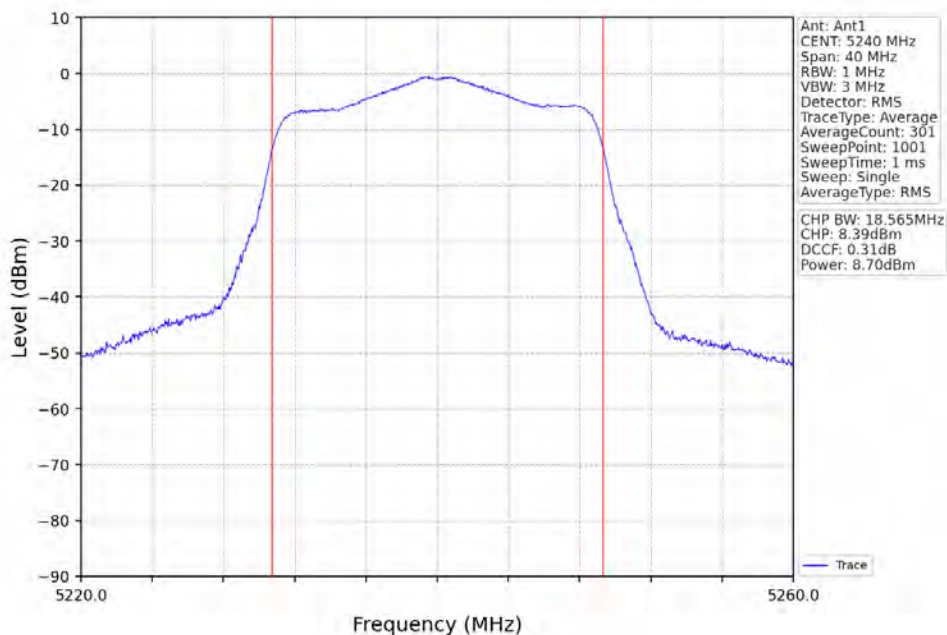
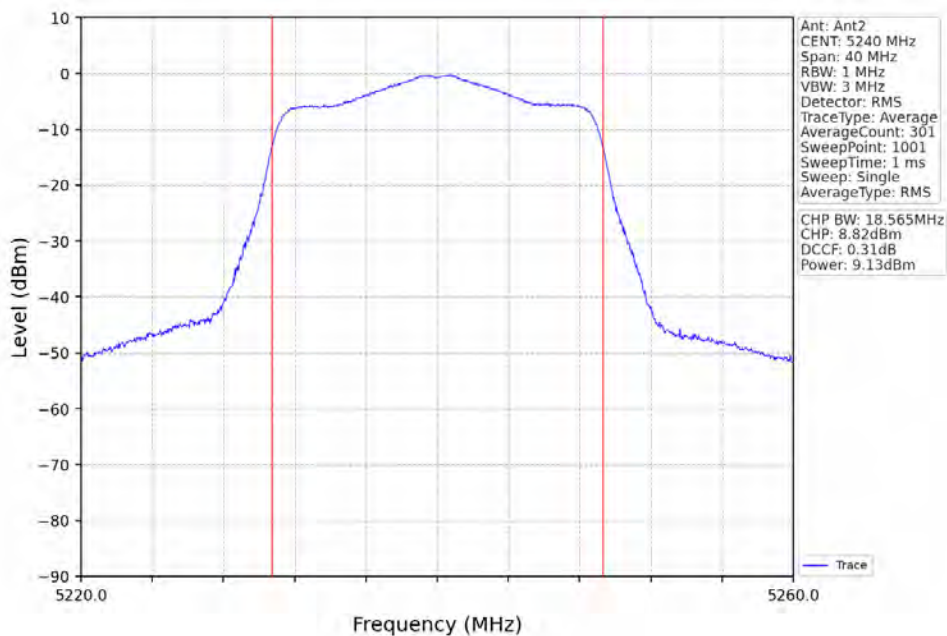


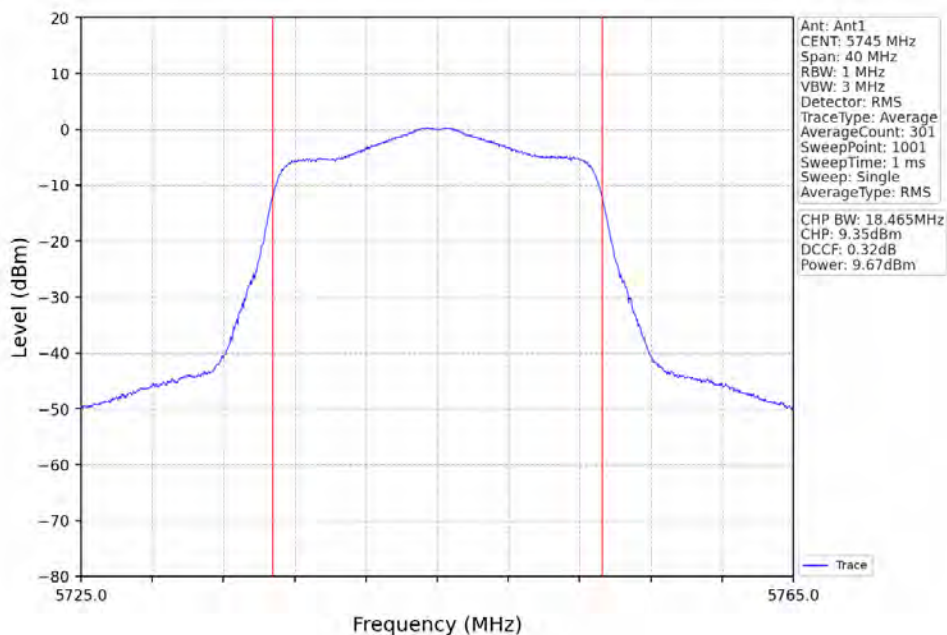
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



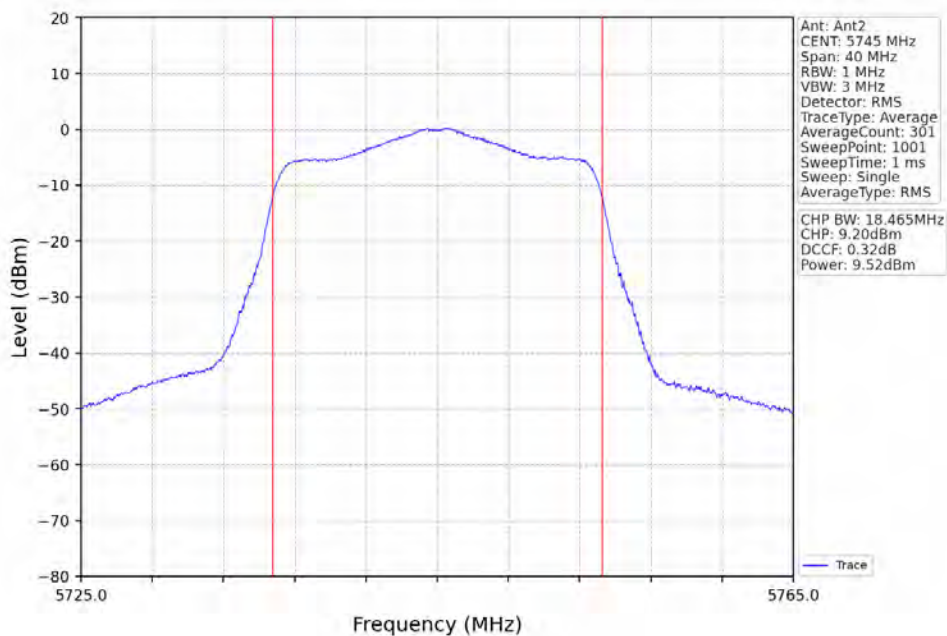
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



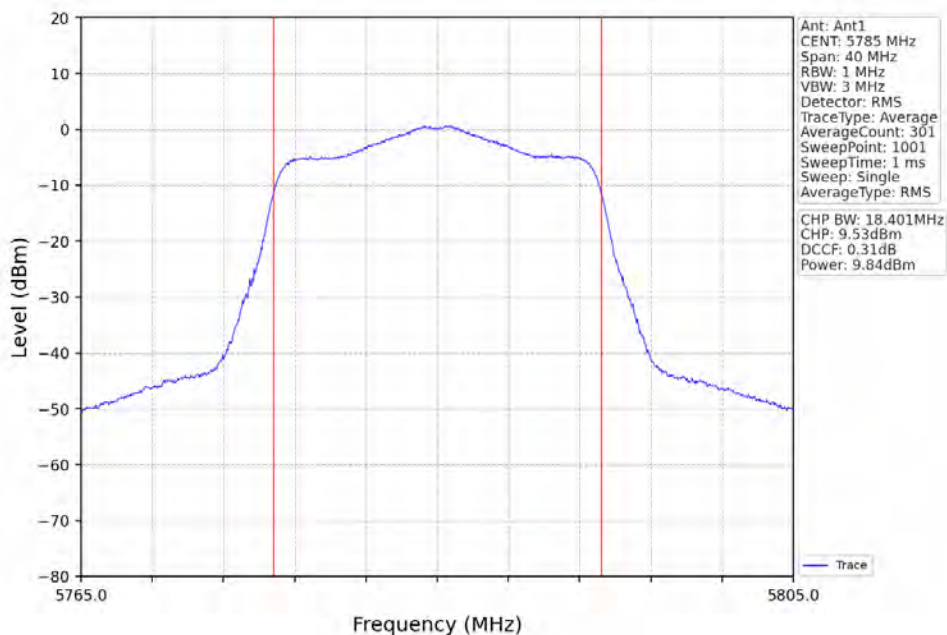
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



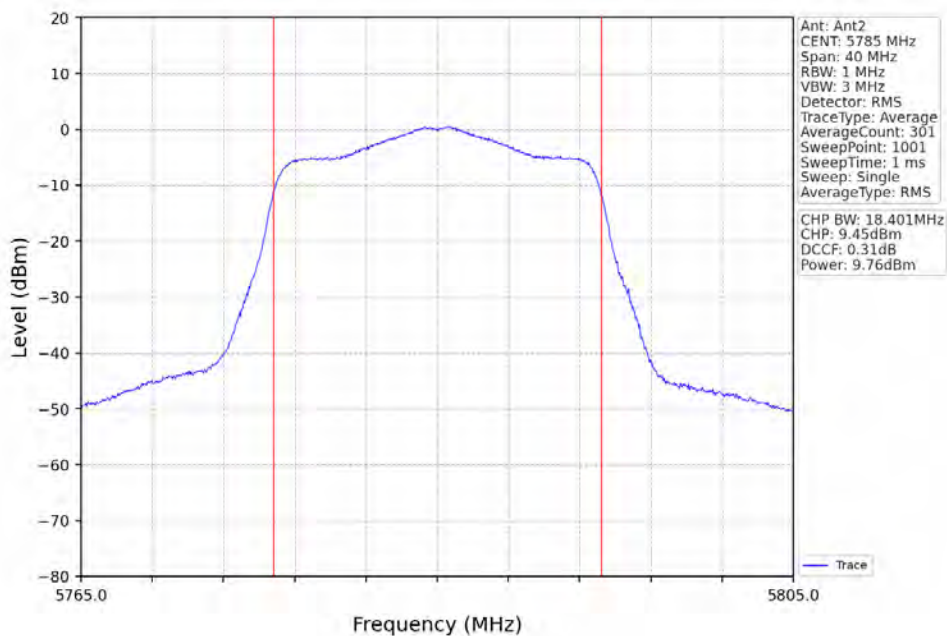
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



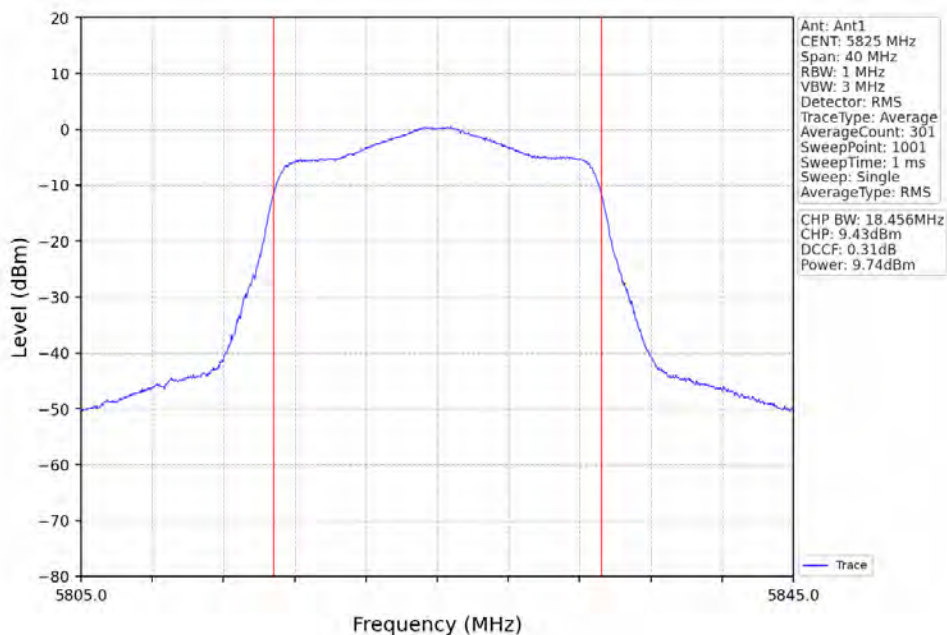
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



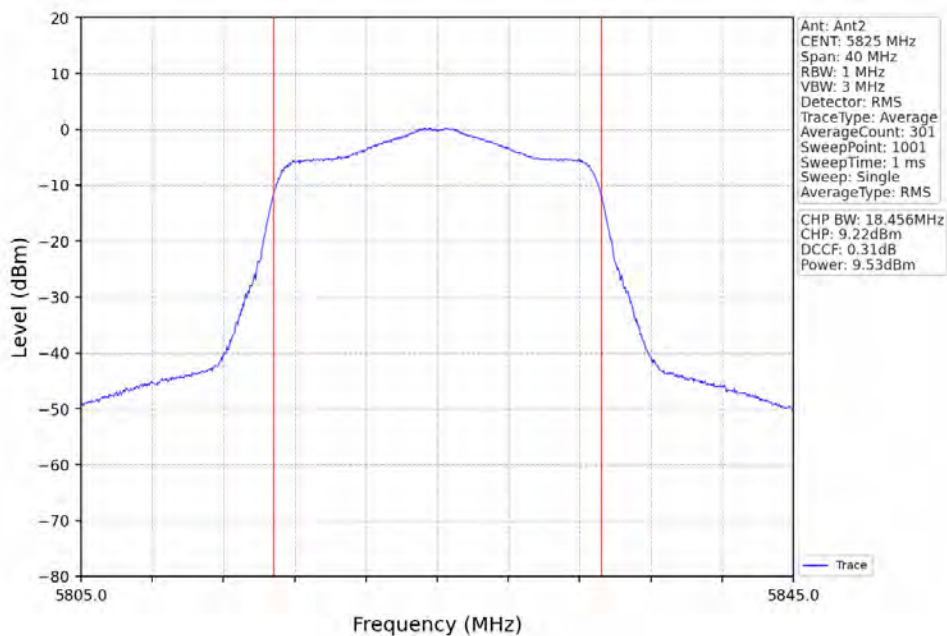
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



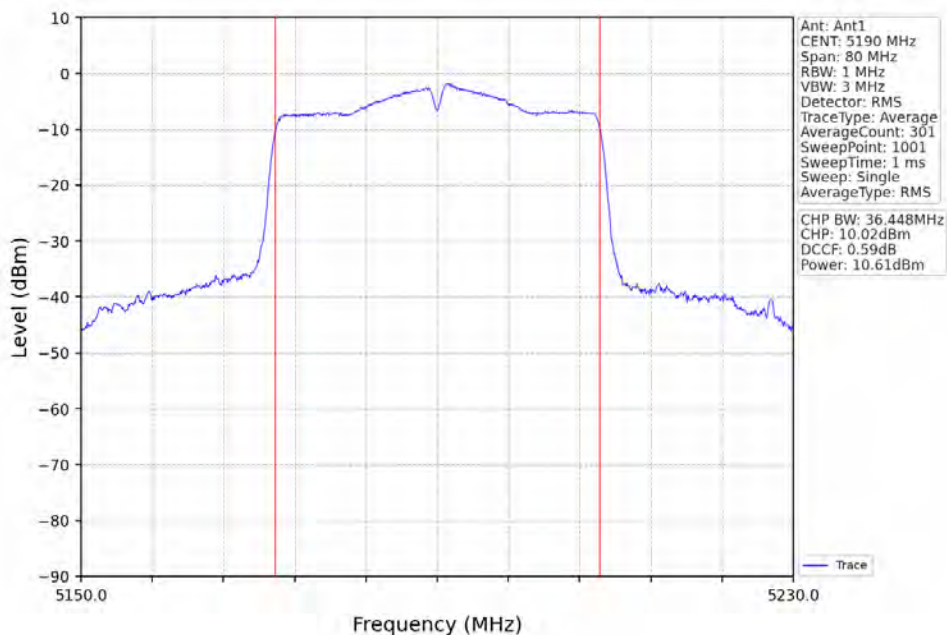
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



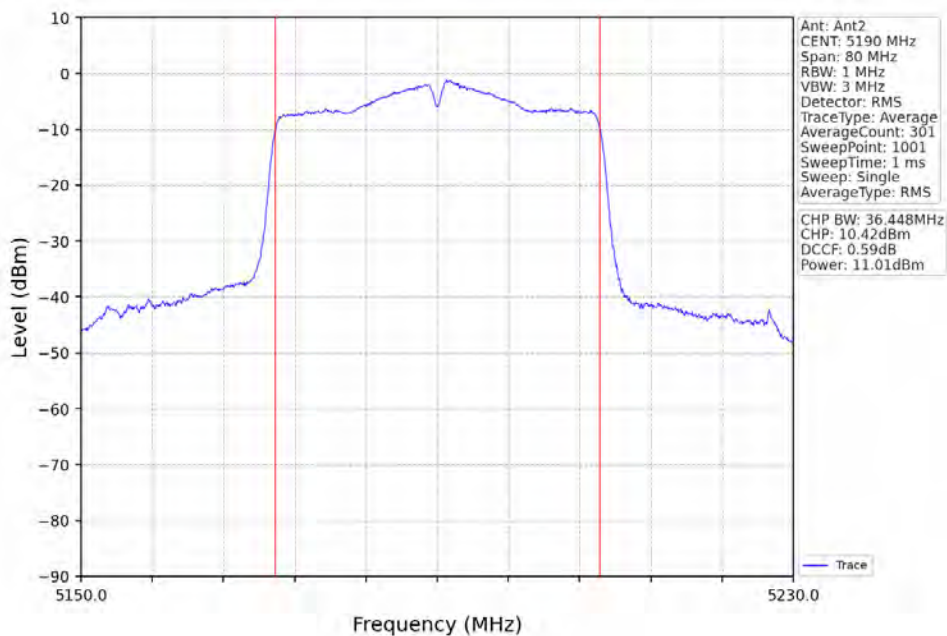
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



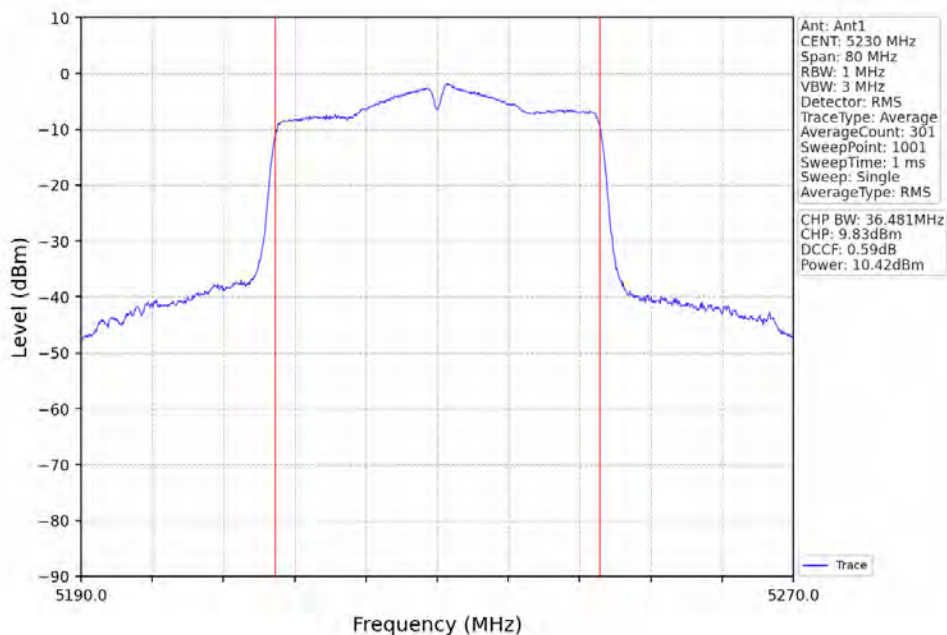
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



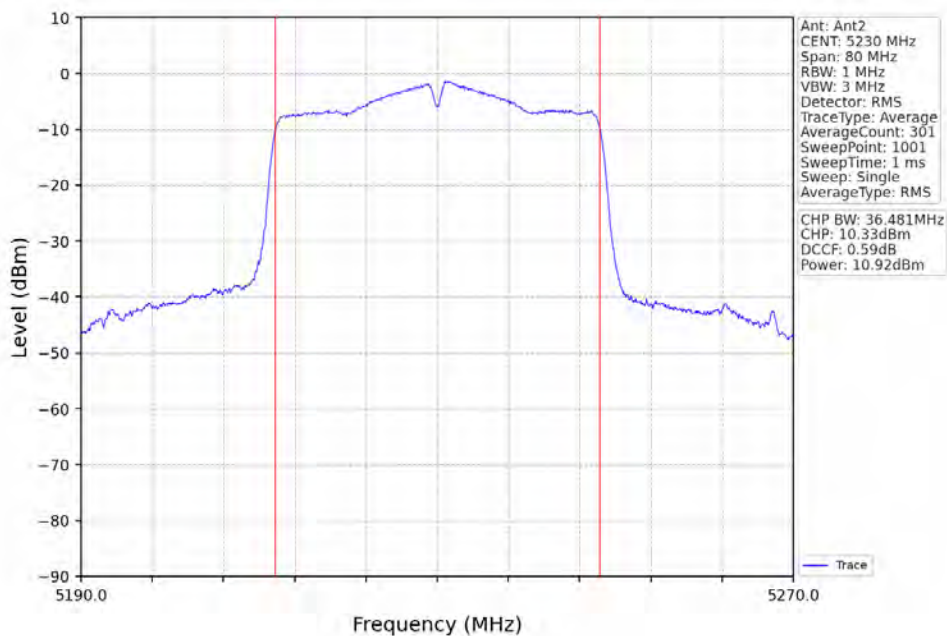
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



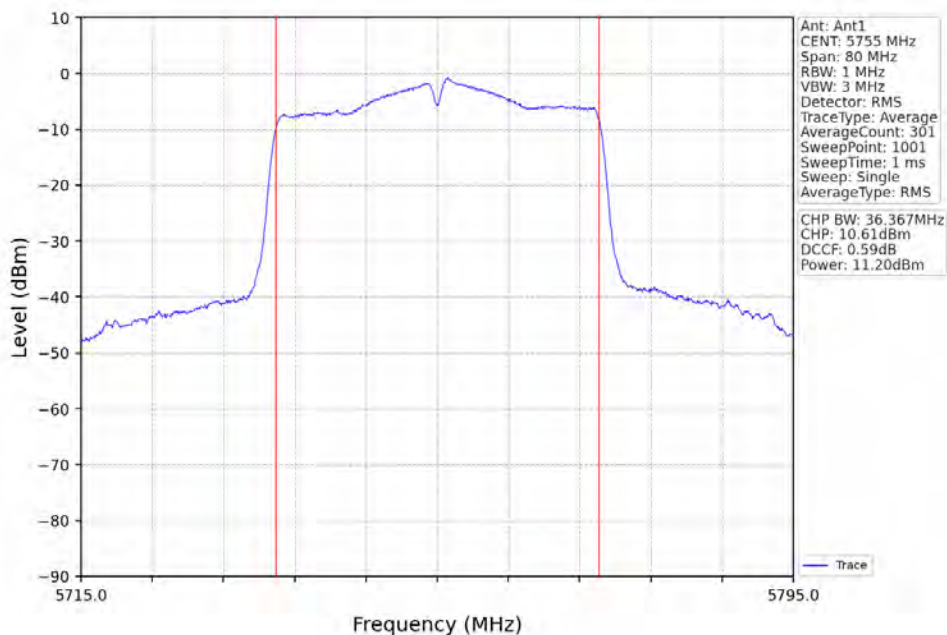
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



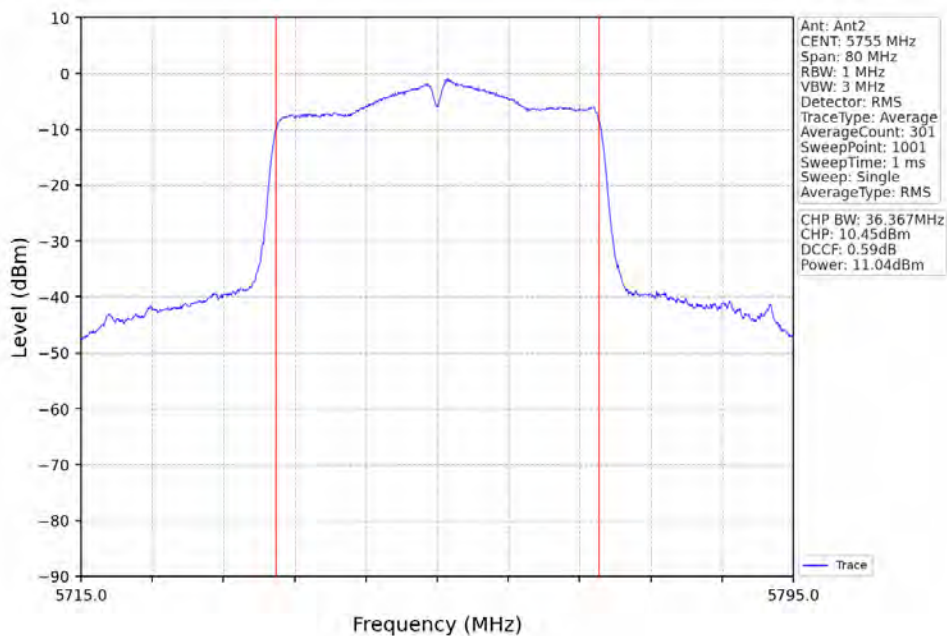
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



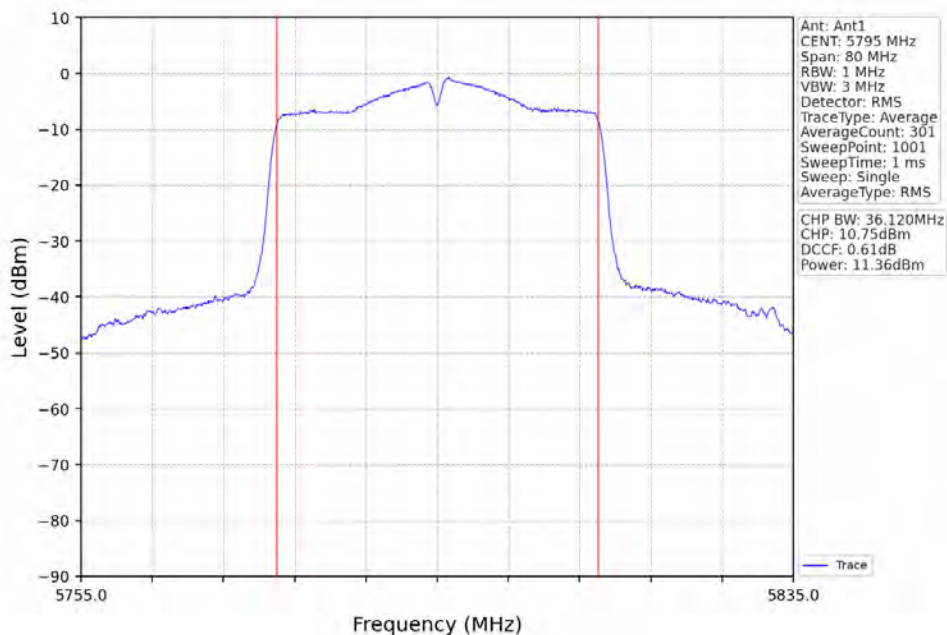
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



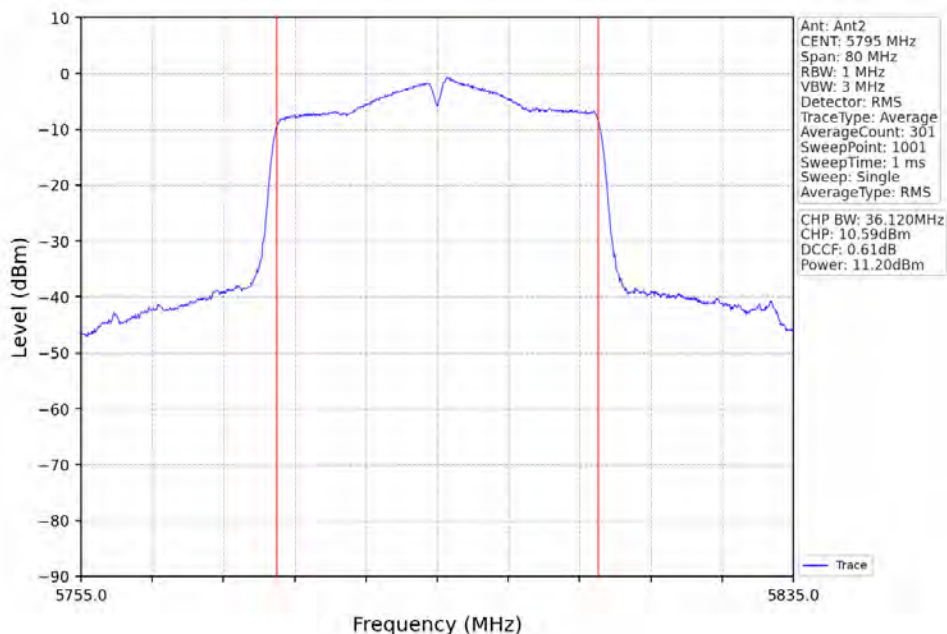
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV

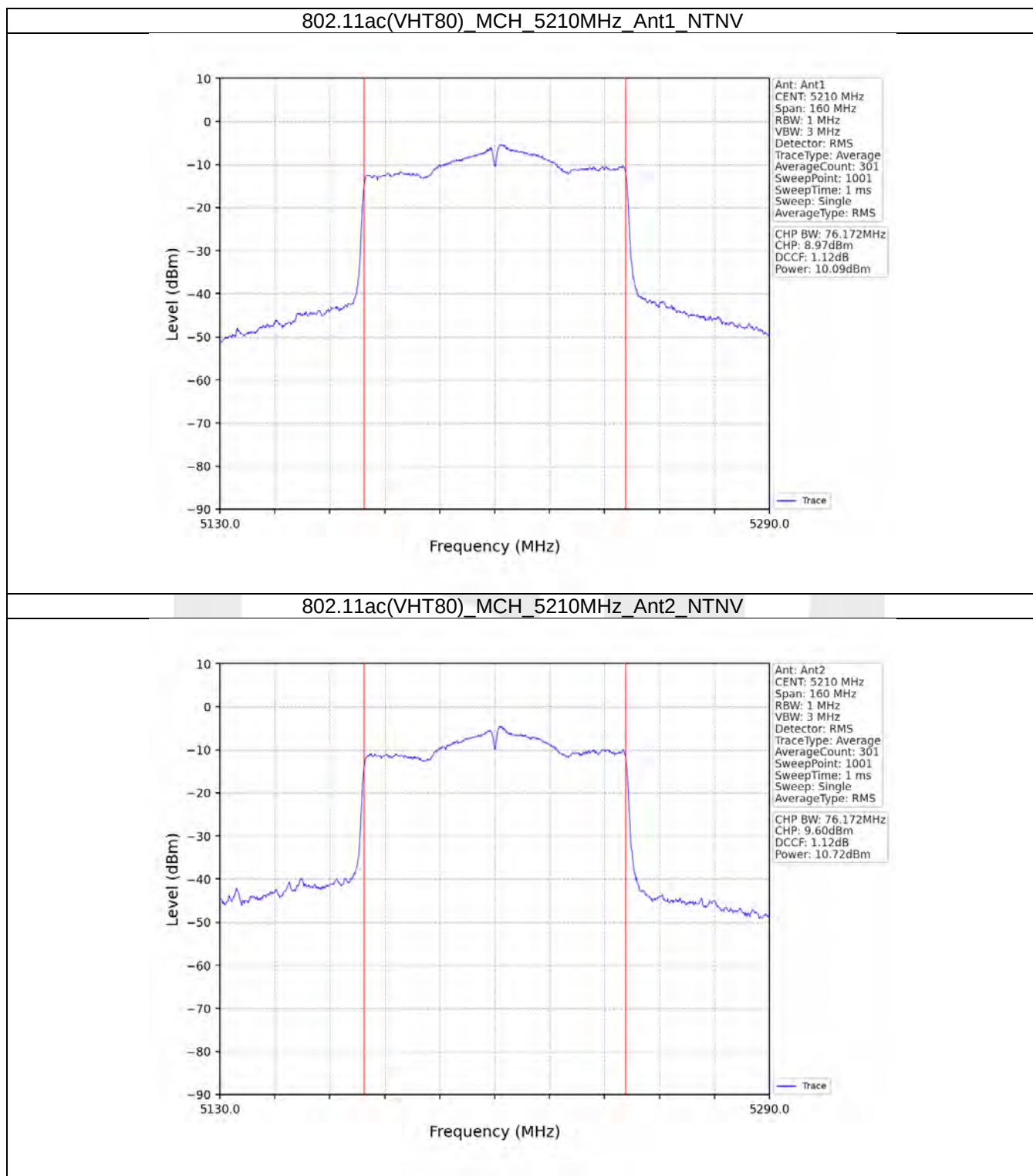


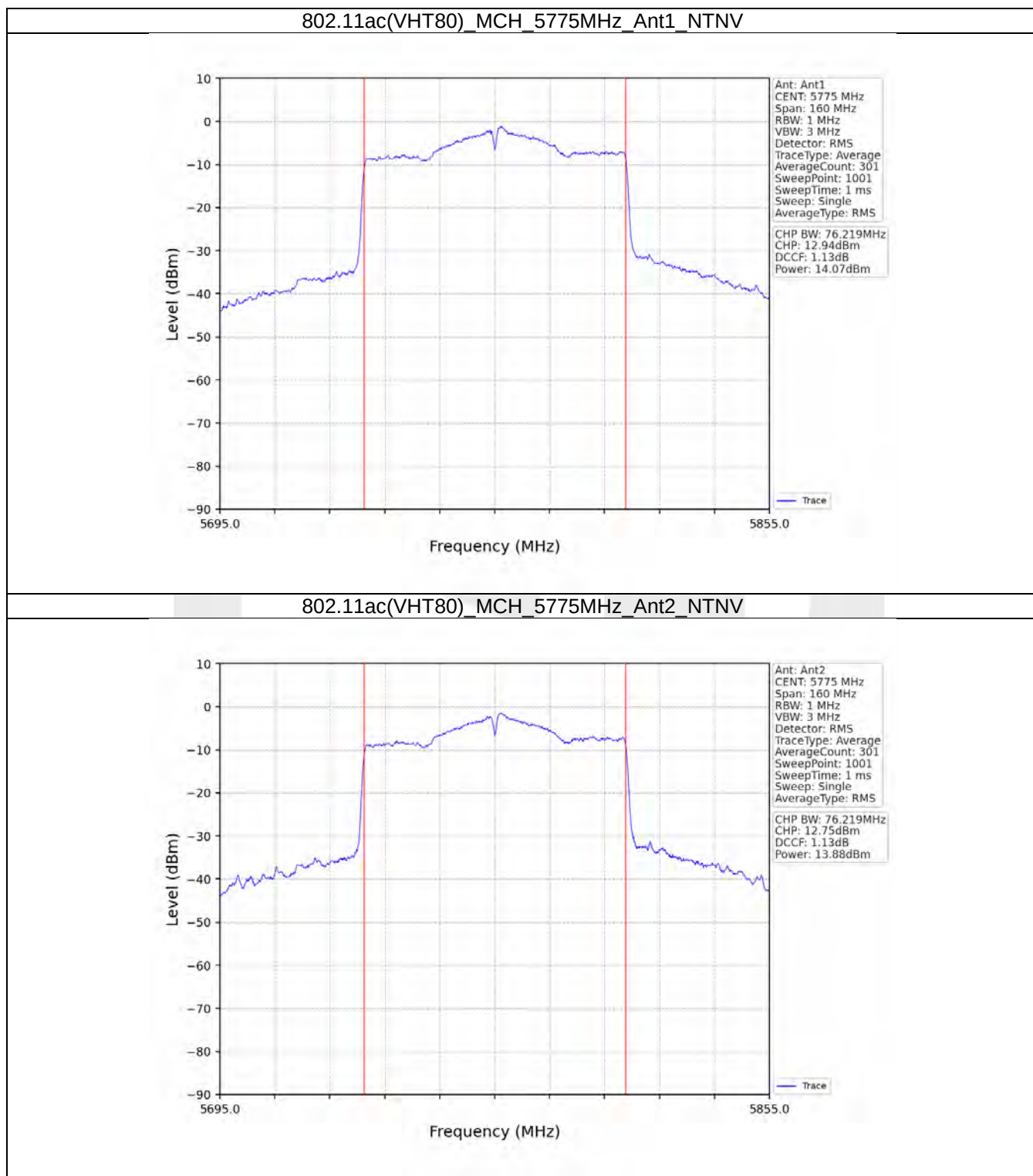
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

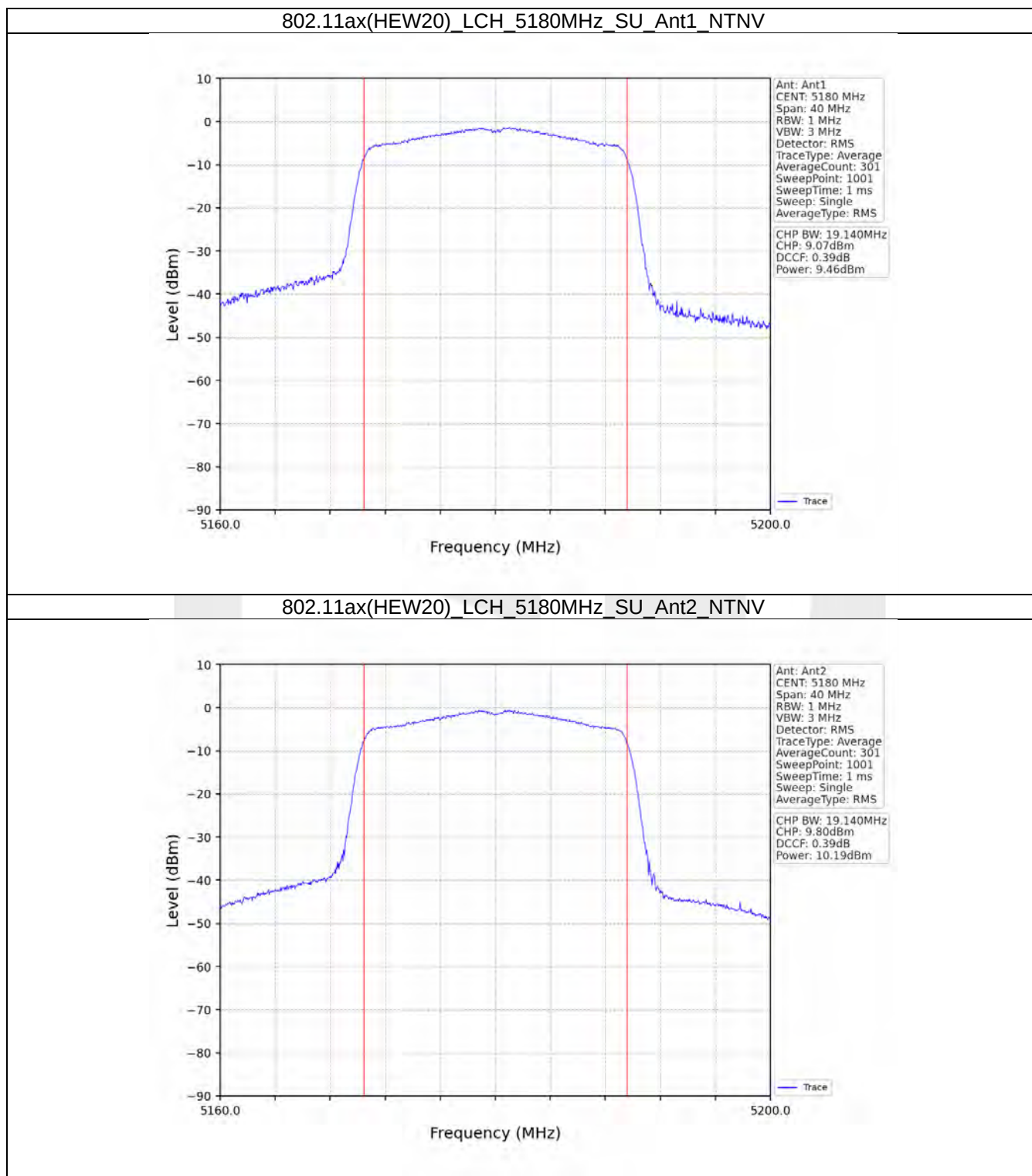


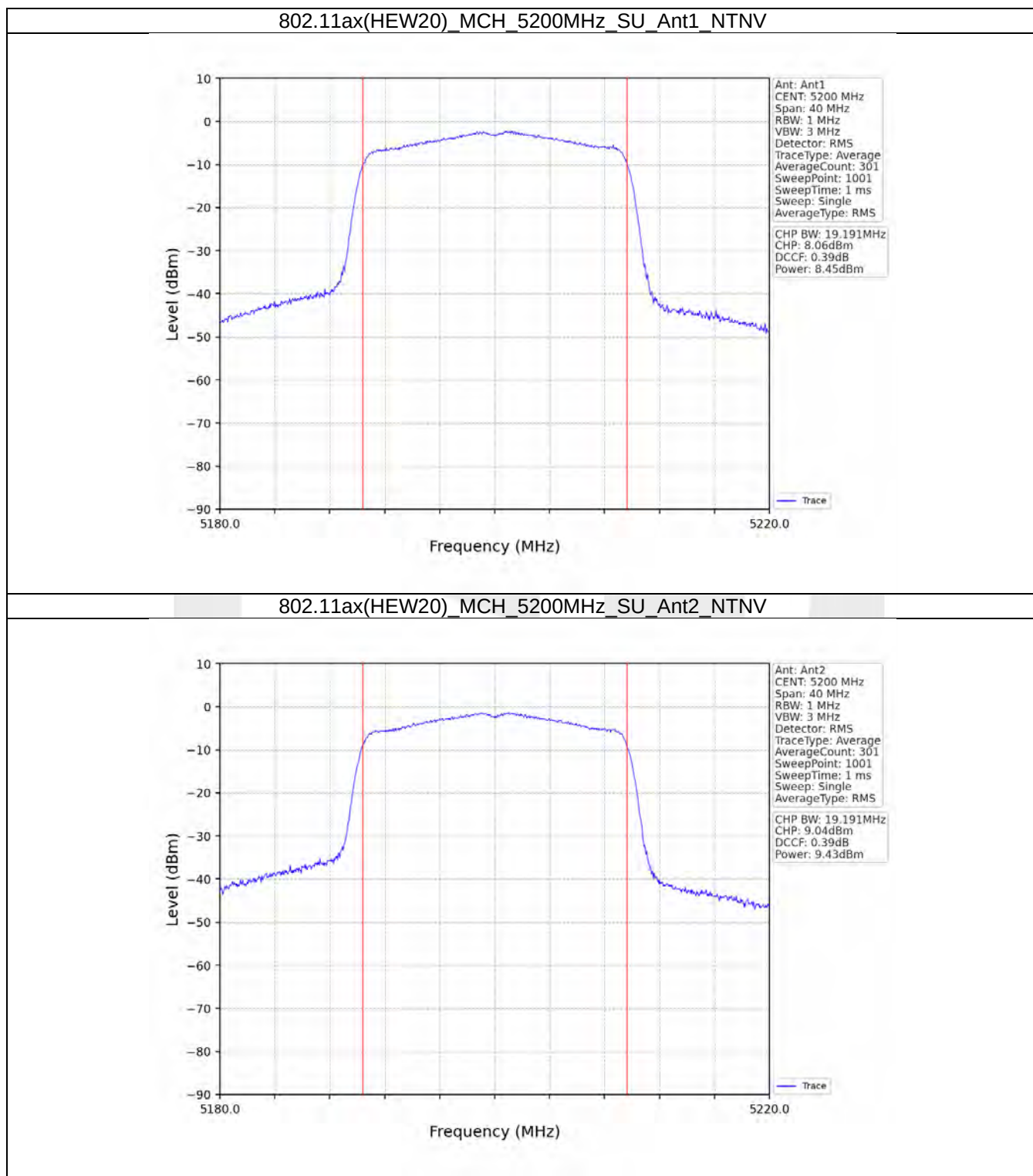
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV

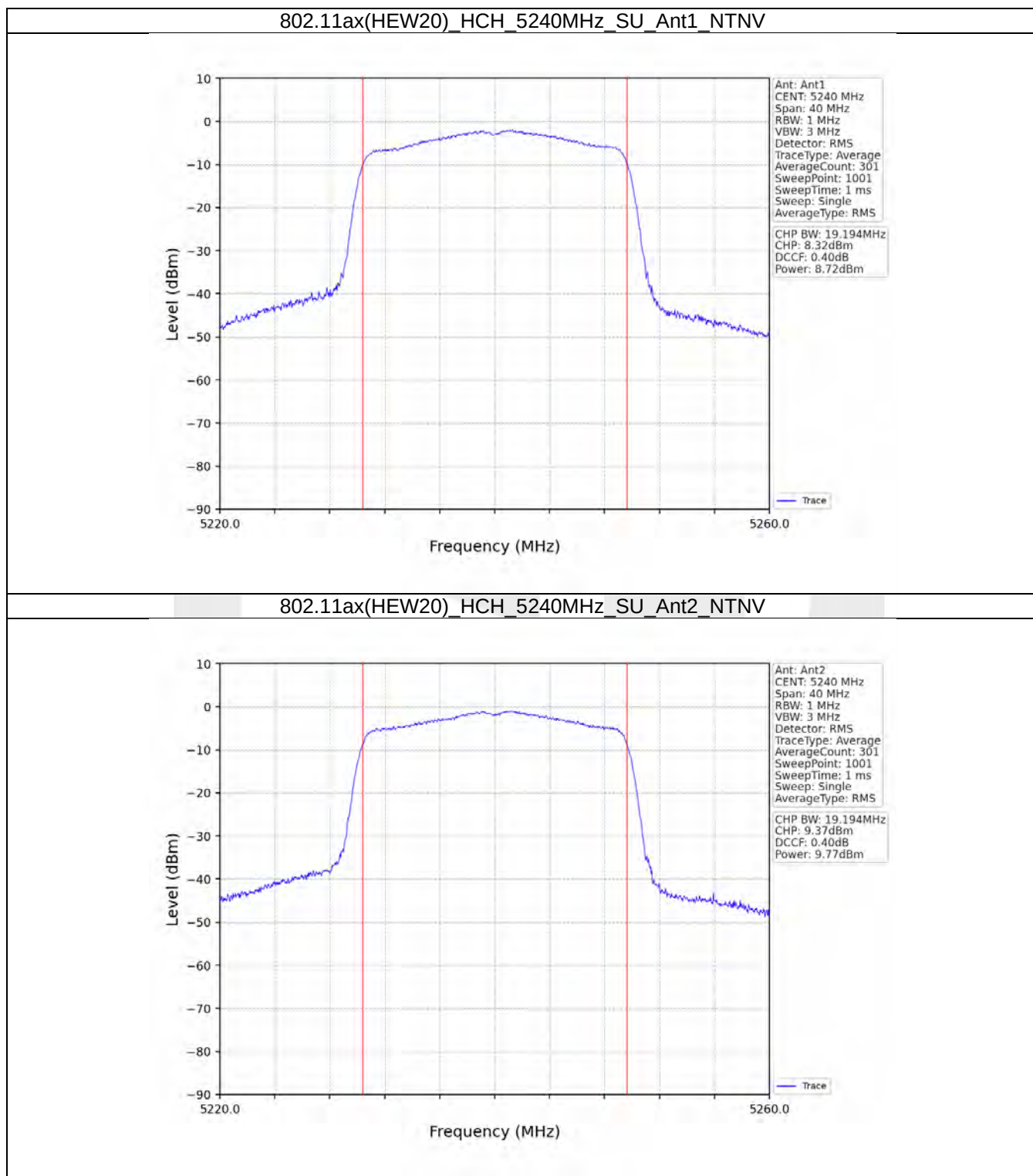




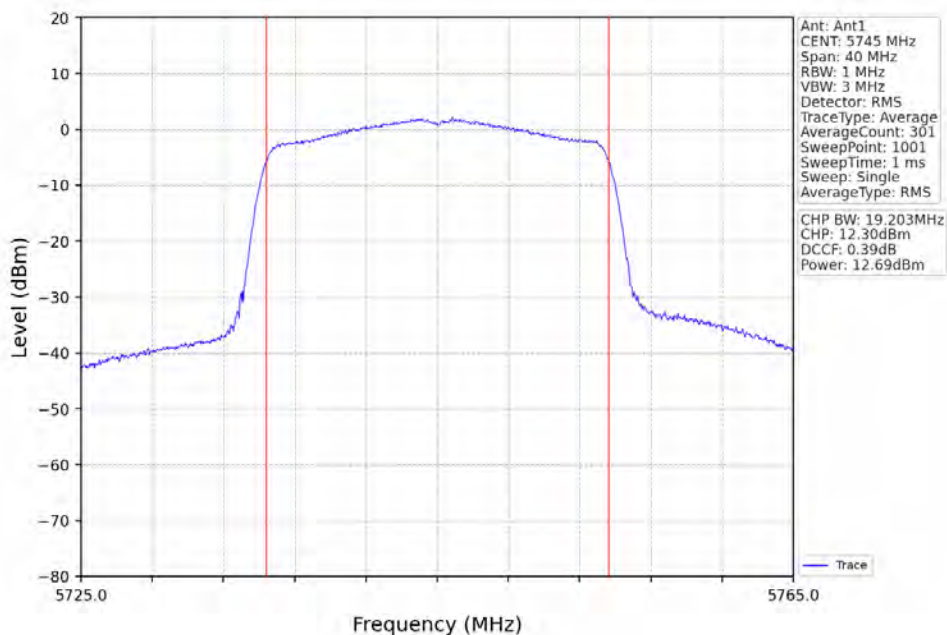




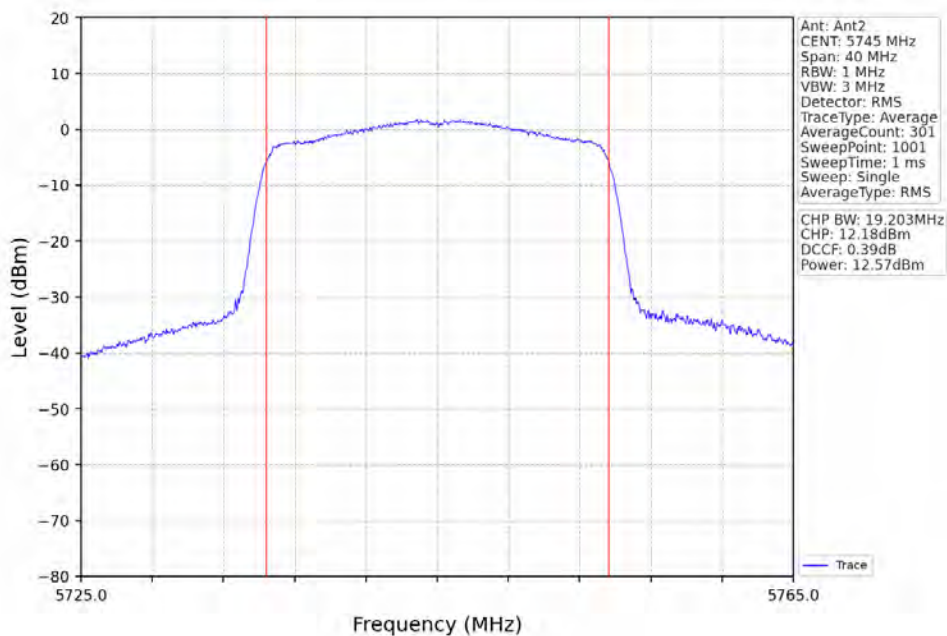


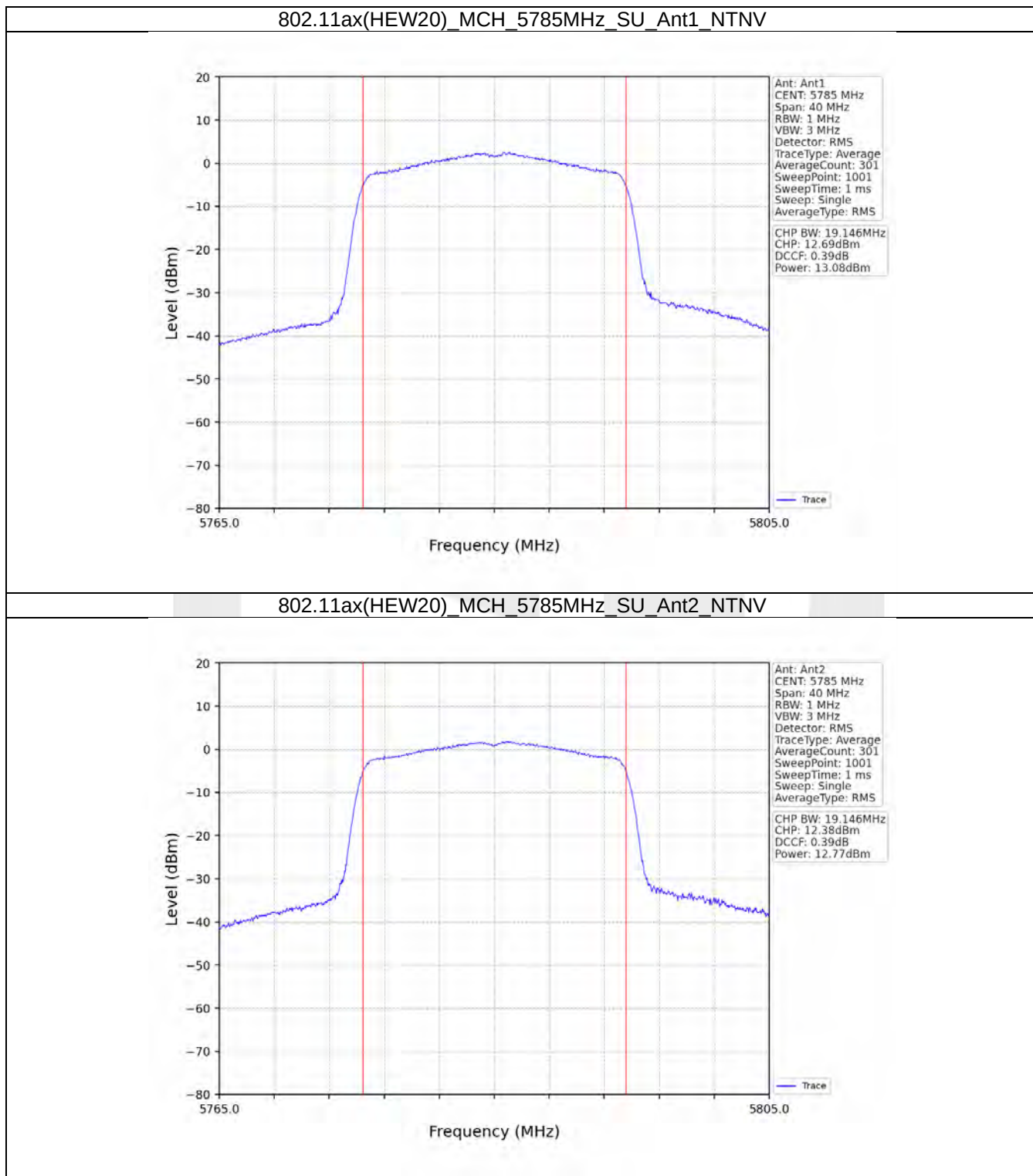


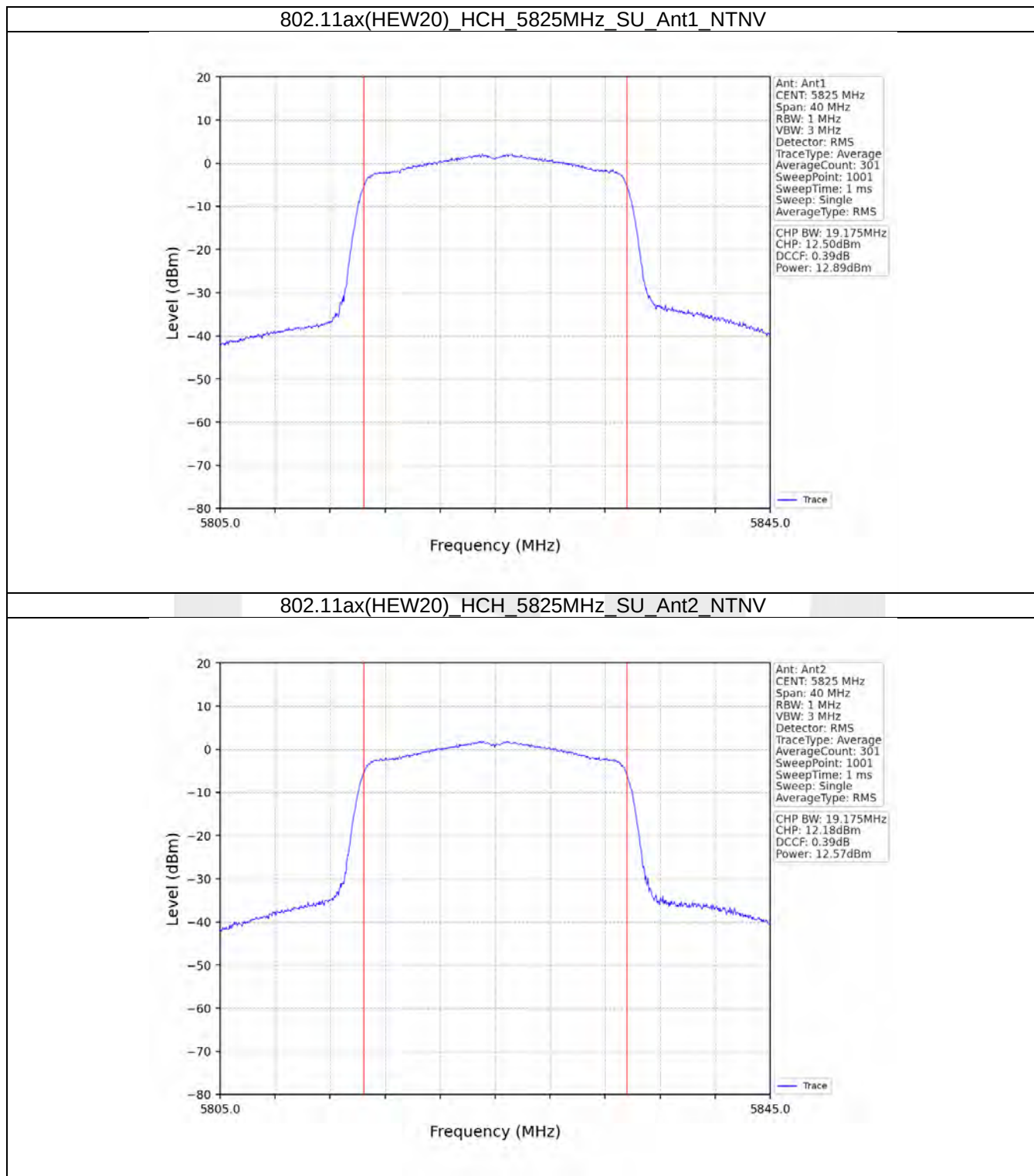
802.11ax(HEW20)_LCH_5745MHz_SU_Ant1_NTNV



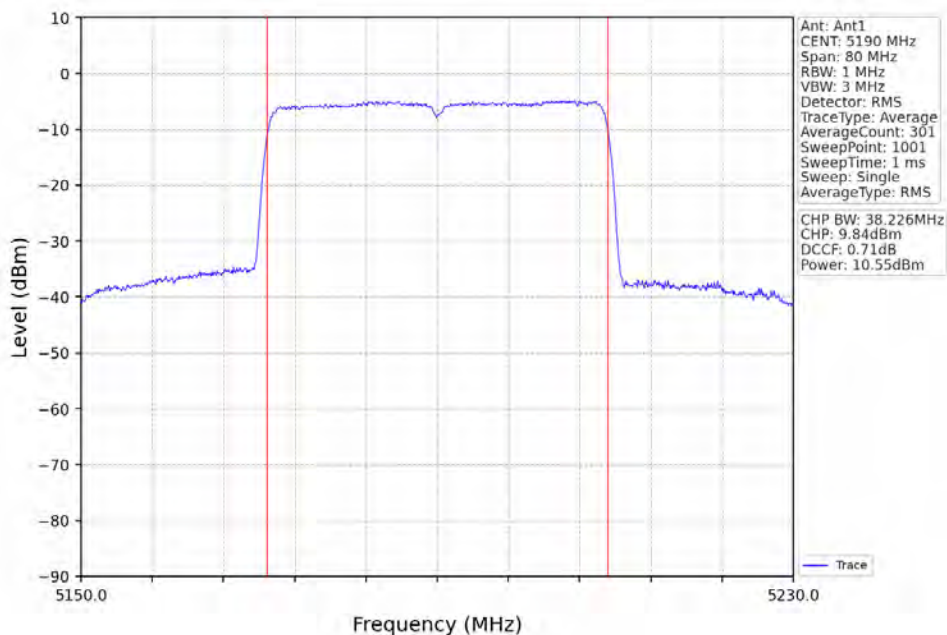
802.11ax(HEW20)_LCH_5745MHz_SU_Ant2_NTNV



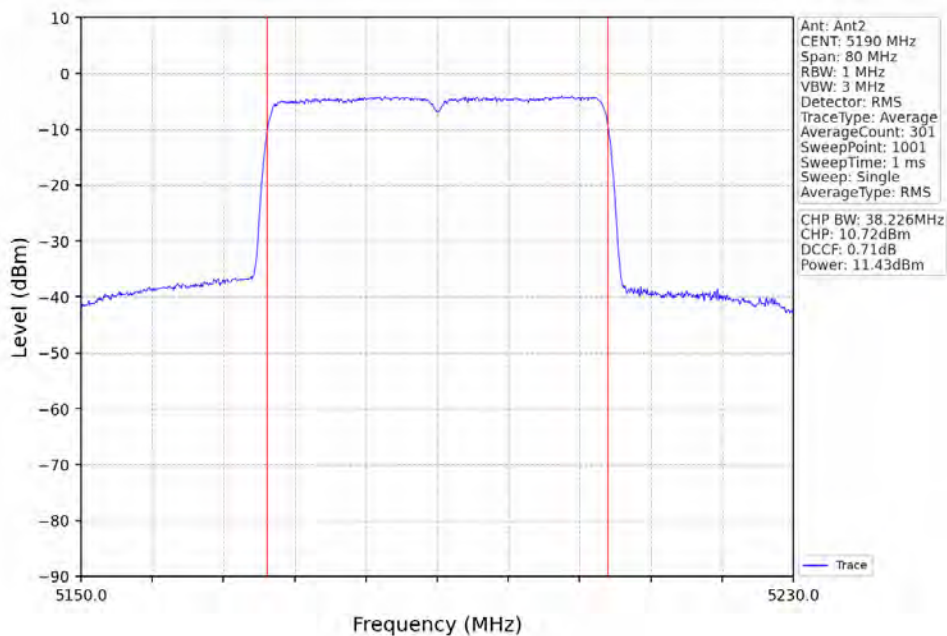


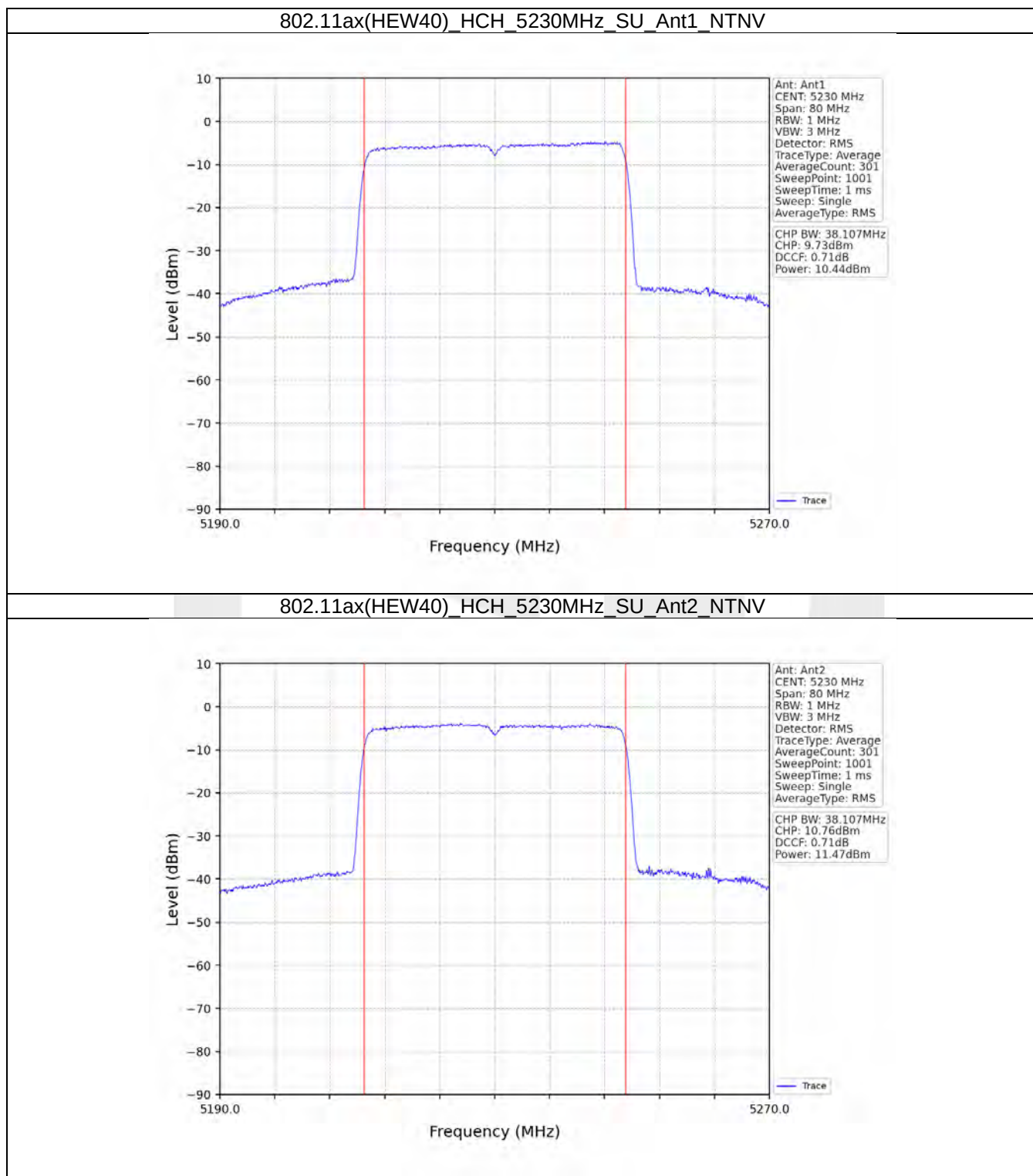


802.11ax(HEW40)_LCH_5190MHz_SU_Ant1_NTNV

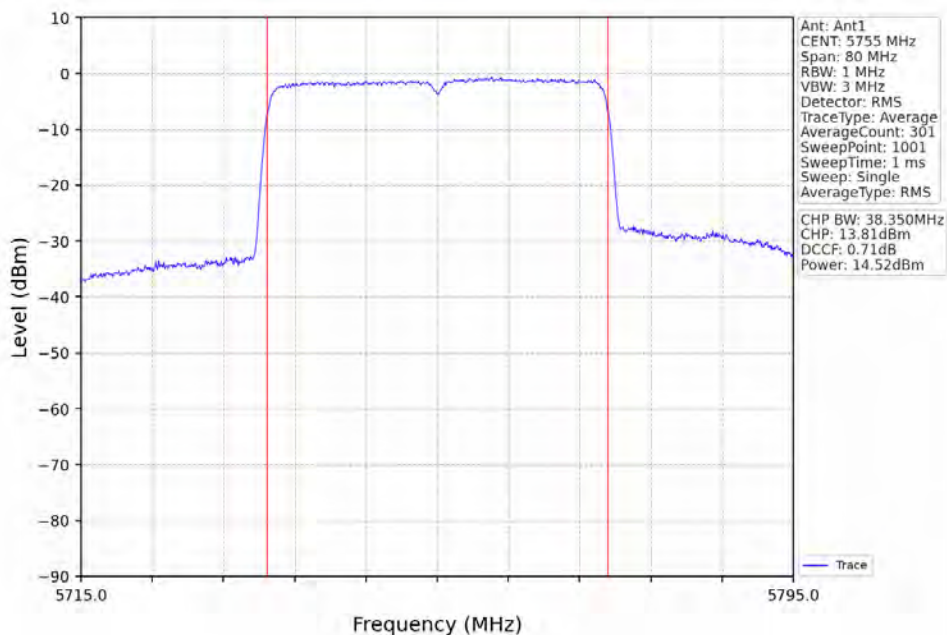


802.11ax(HEW40)_LCH_5190MHz_SU_Ant2_NTNV

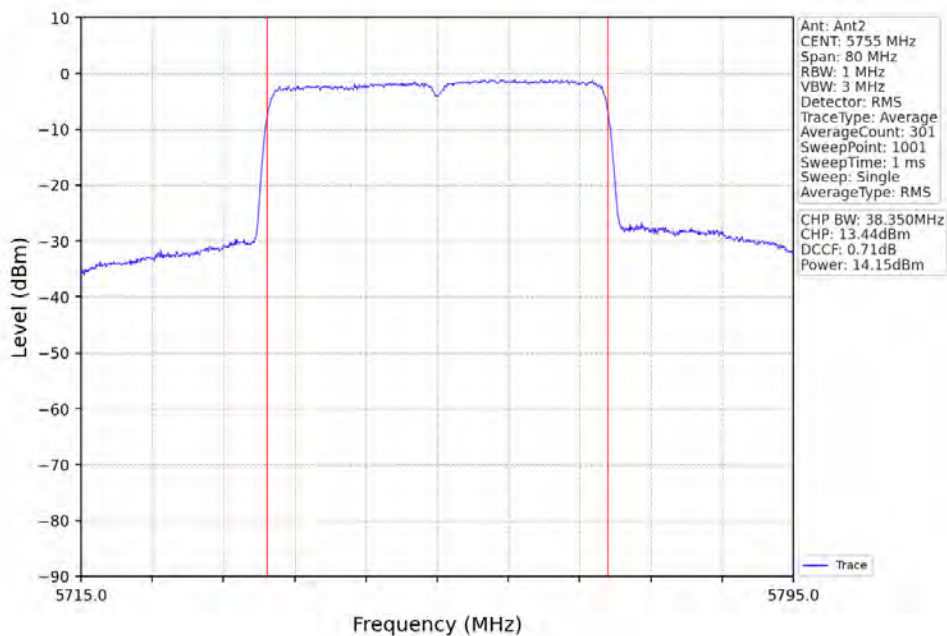


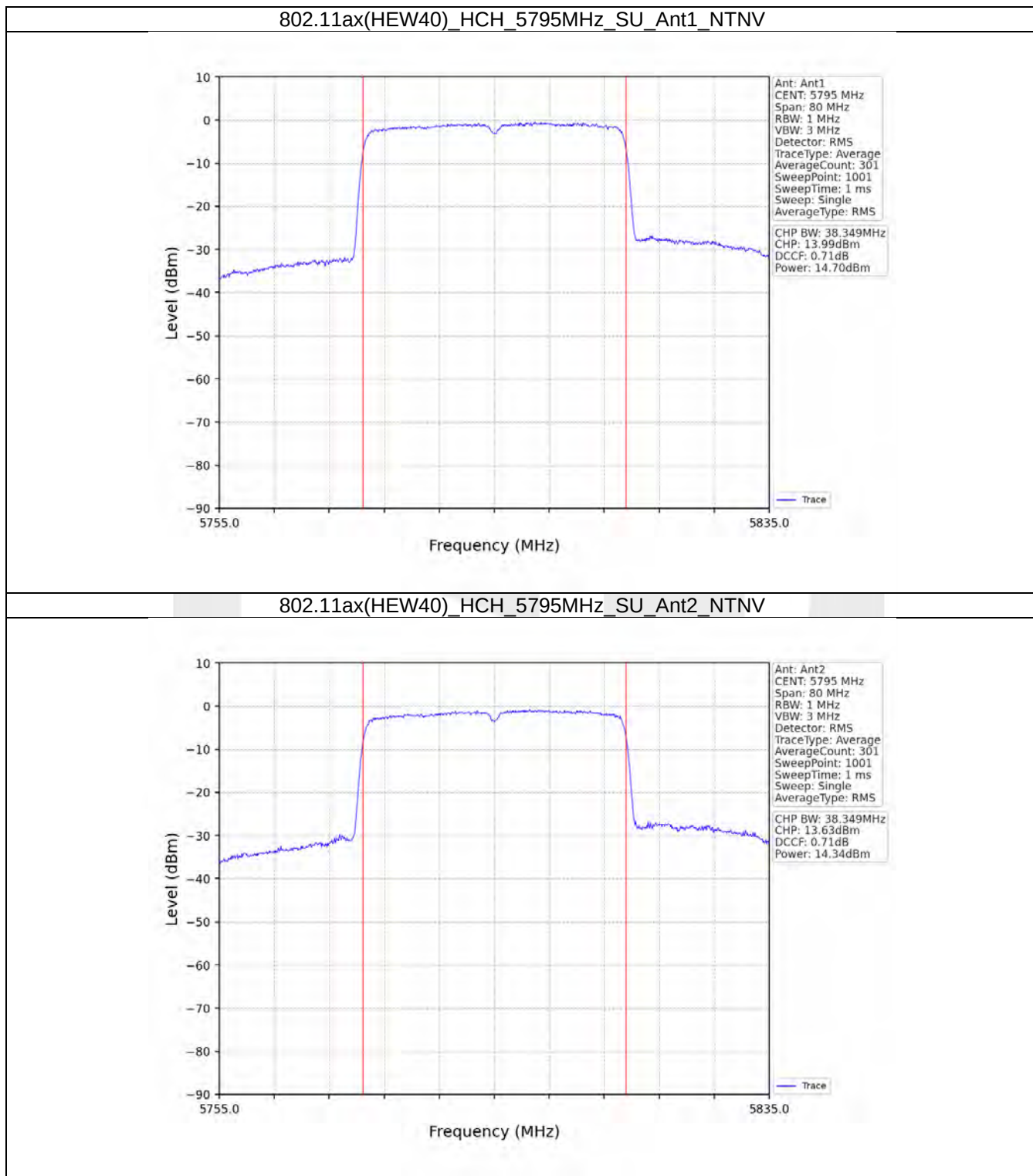


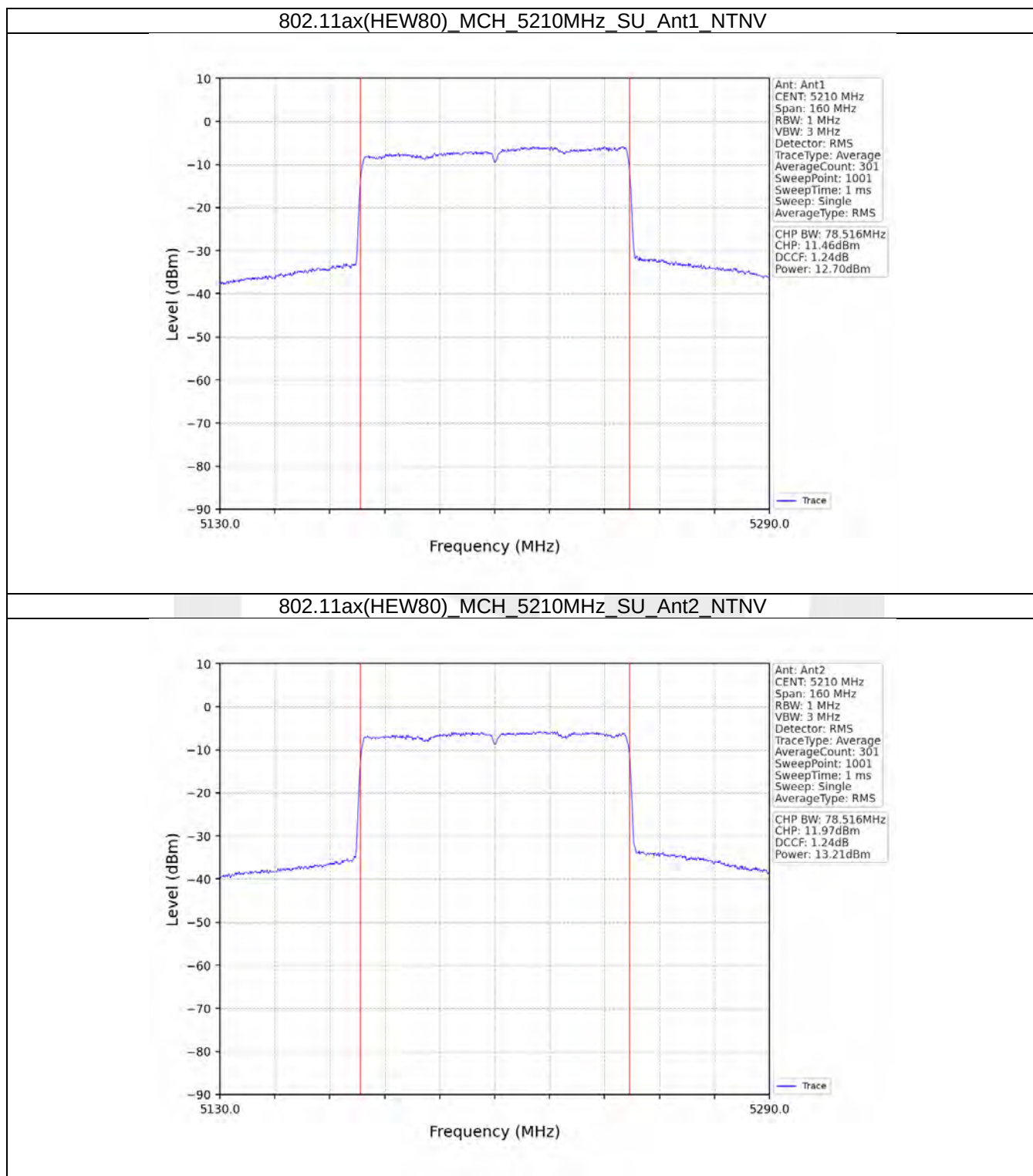
802.11ax(HEW40)_LCH_5755MHz_SU_Ant1_NTNV

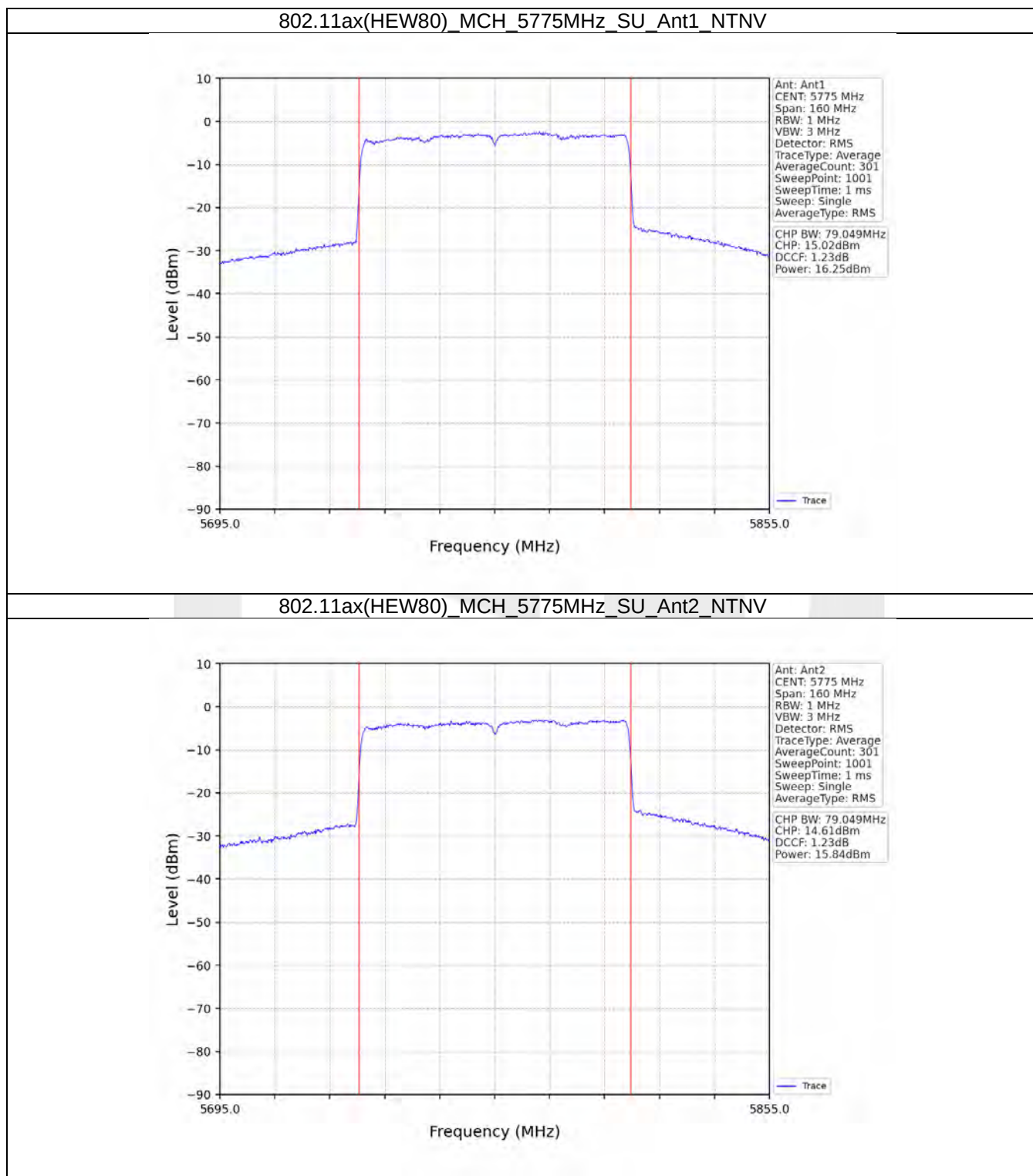


802.11ax(HEW40)_LCH_5755MHz_SU_Ant2_NTNV









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

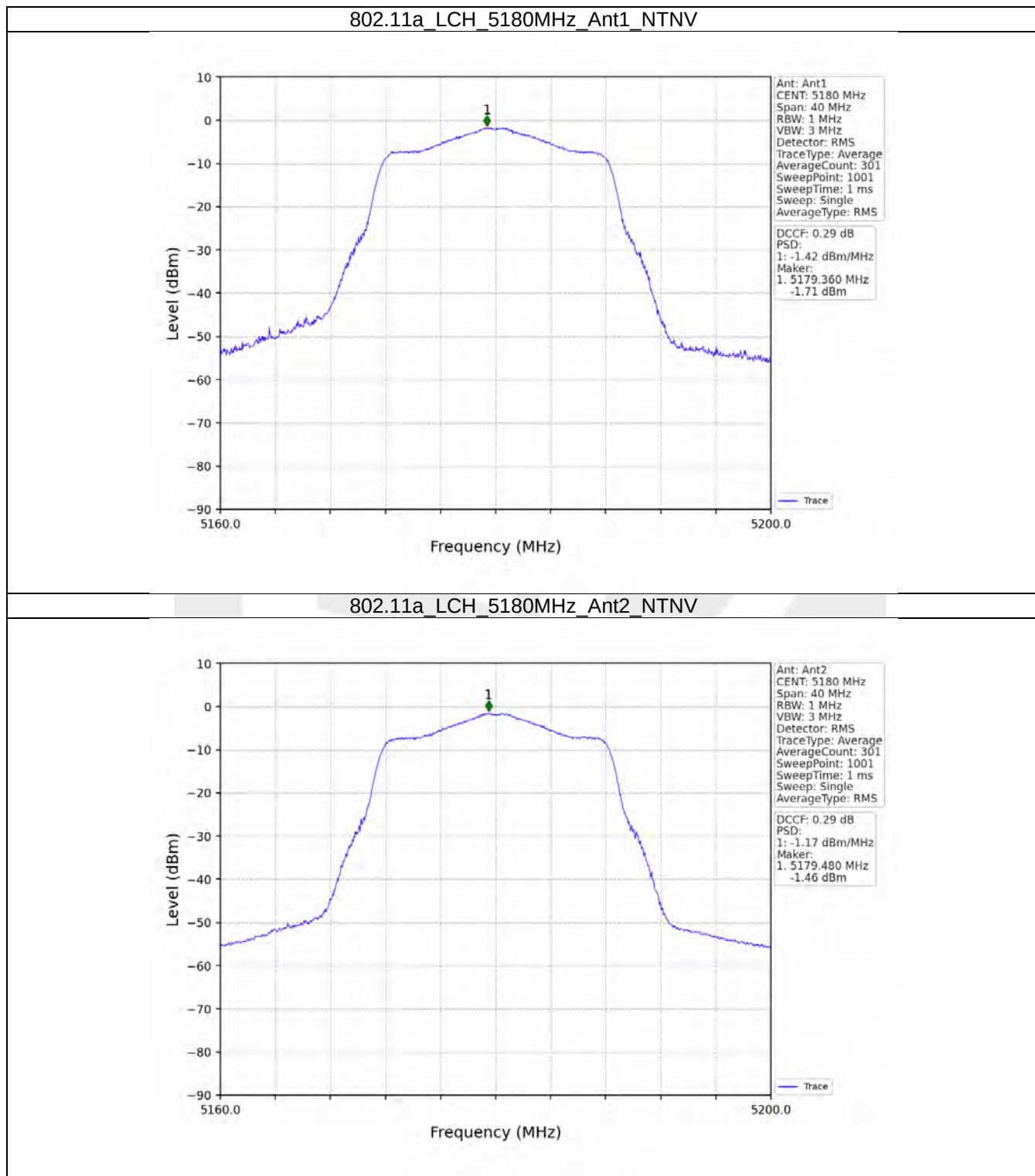
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)			Verdict
					ANT1	ANT2	Limit	
802.11a	SISO	5745	/	/	-0.01	-0.41	<=30	Pass
		5785	/	/	0.49	-0.17	<=30	Pass
		5825	/	/	0.11	-0.44	<=30	Pass
802.11n (HT20)	SISO	5745	/	/	4.87	-2.17	<=30	Pass
		5785	/	/	5.52	-1.81	<=30	Pass
		5825	/	/	5.00	-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

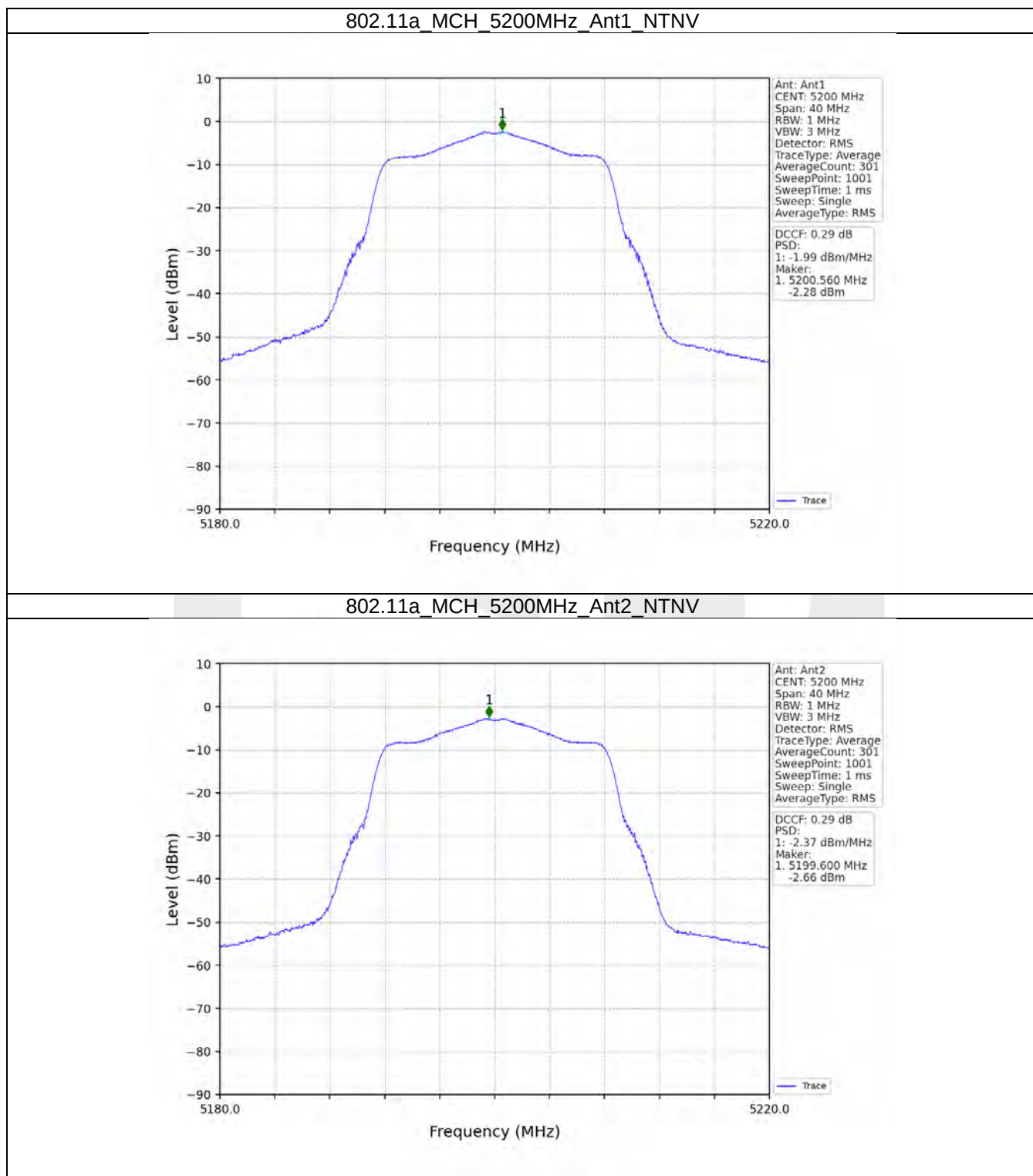
4.1.3 PSD-Band3(MIMO)

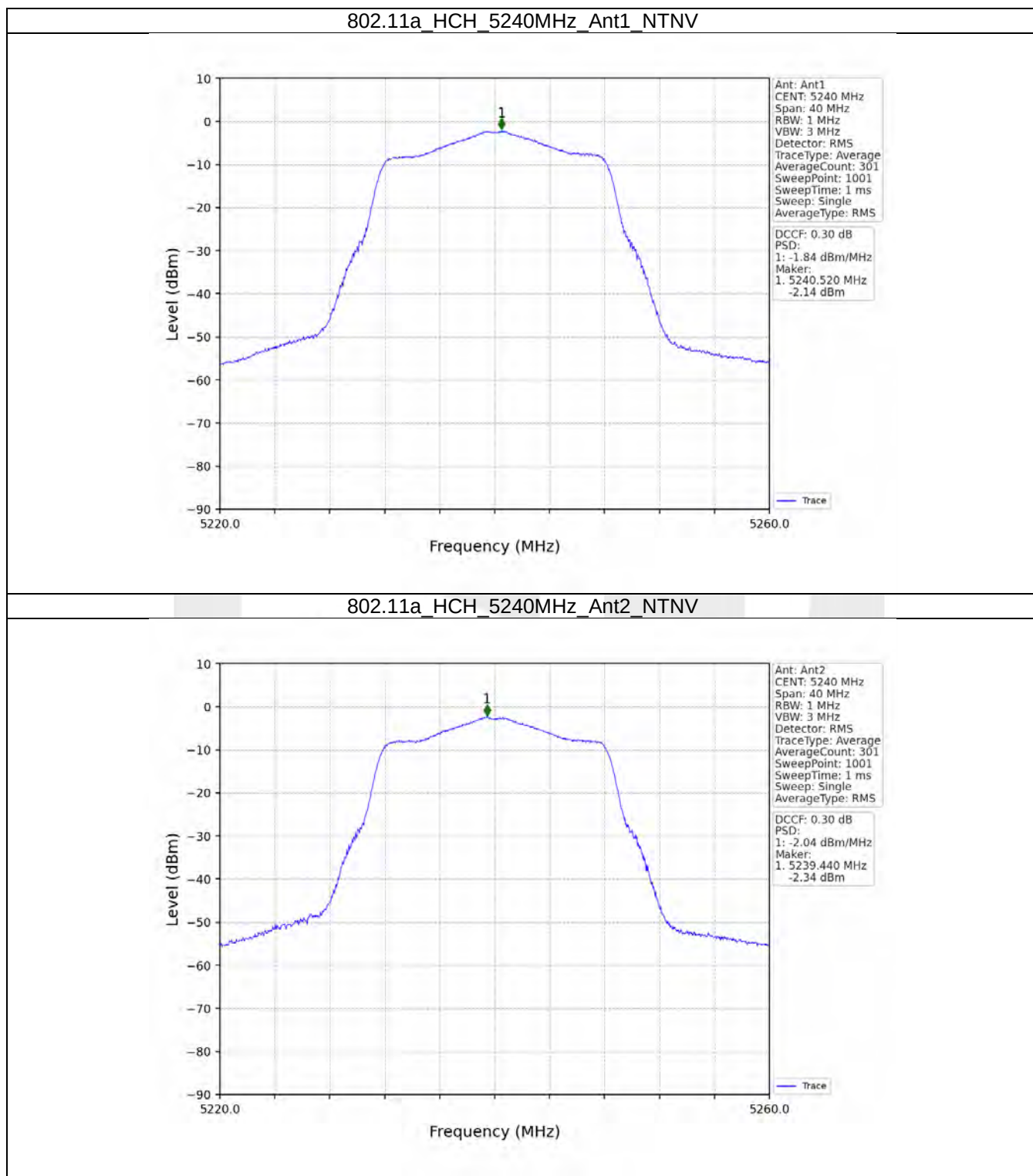
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)		Verdict
					MIMO	Limit	
802.11n (HT20)	MIMO	5745	/	/	5.65	<=30	Pass
		5785	/	/	6.26	<=30	Pass
		5825	/	/	5.78	<=30	Pass
802.11n (HT40)	MIMO	5755	/	/	0.21	<=30	Pass
		5795	/	/	0.53	<=30	Pass
802.11ac (VHT20)	MIMO	5745	/	/	2.89	<=30	Pass
		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.							

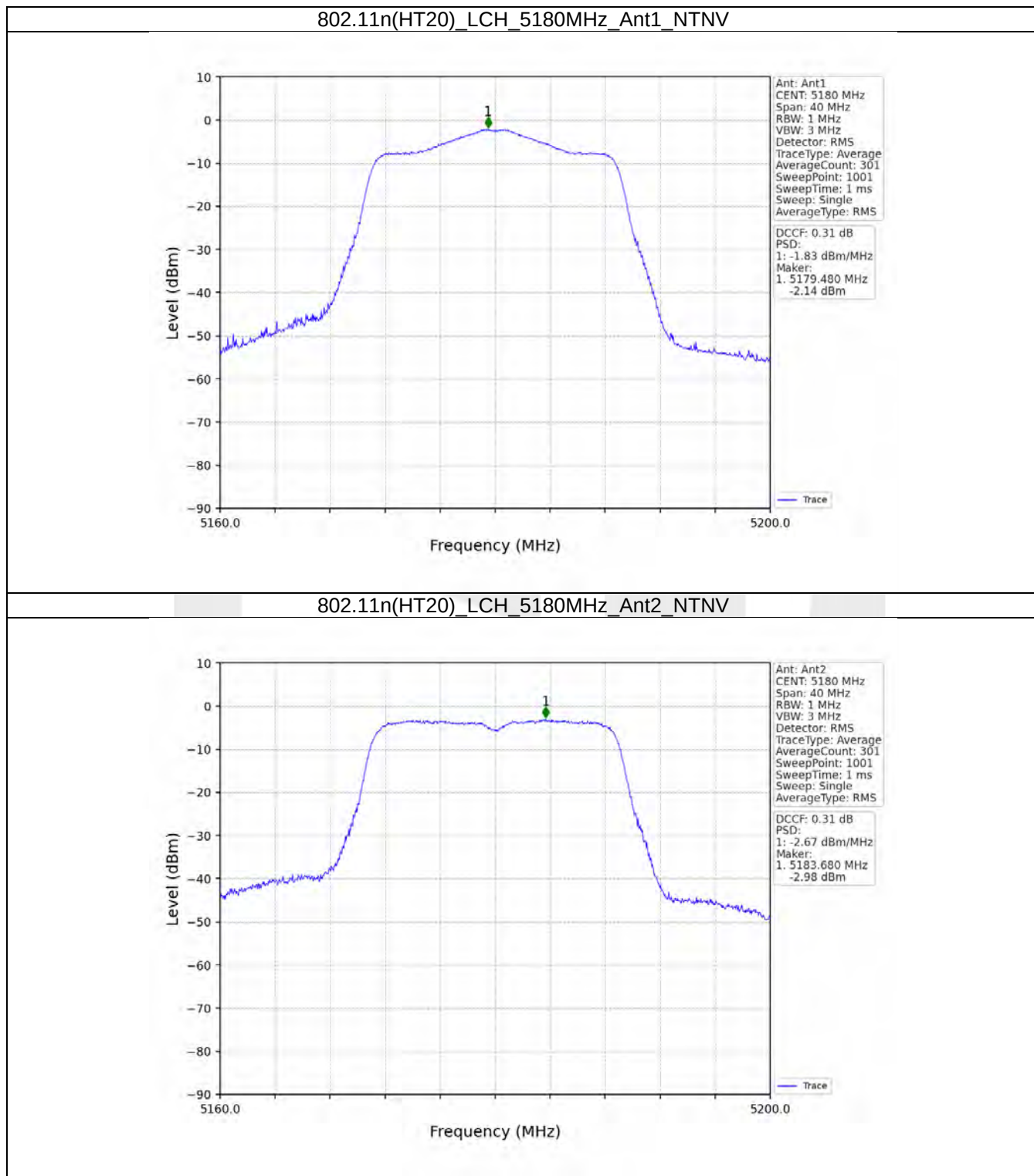
4.2 Test Graph

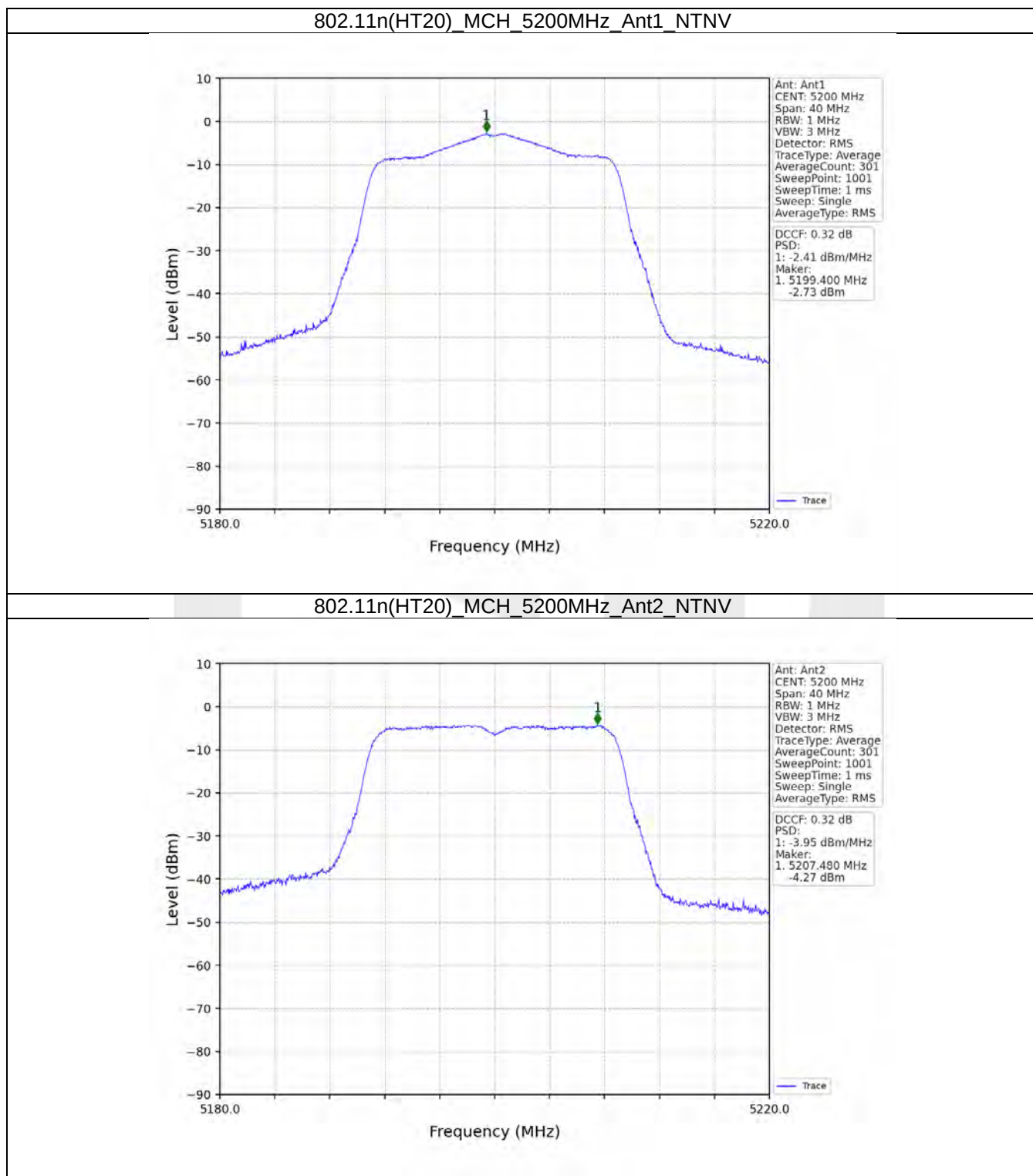
4.2.1 PSD



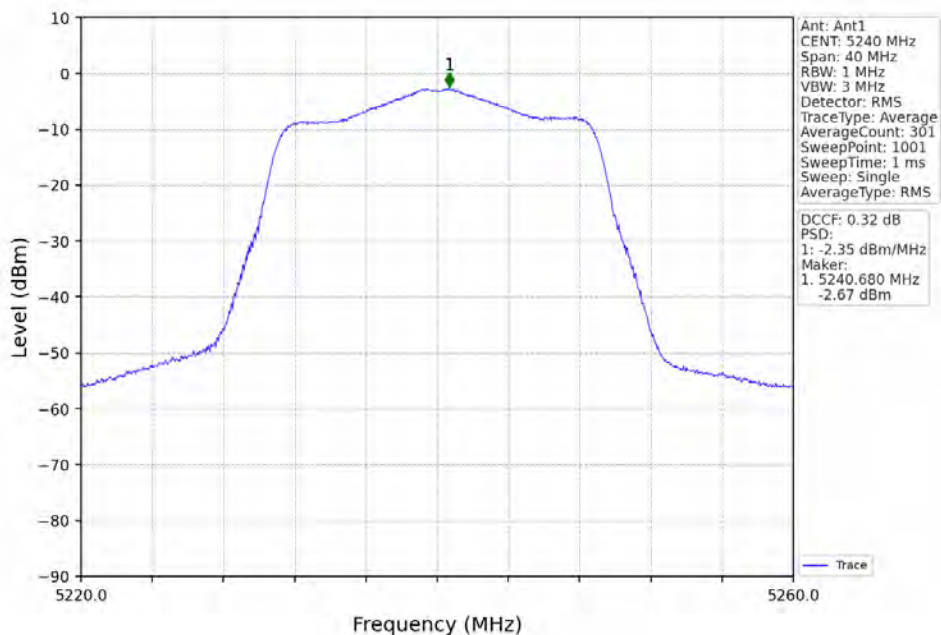




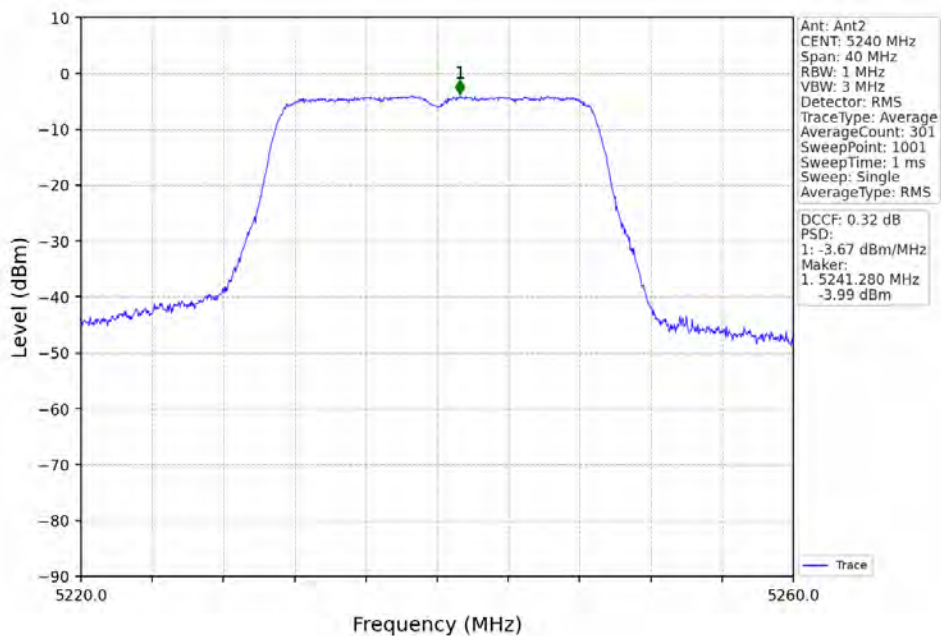




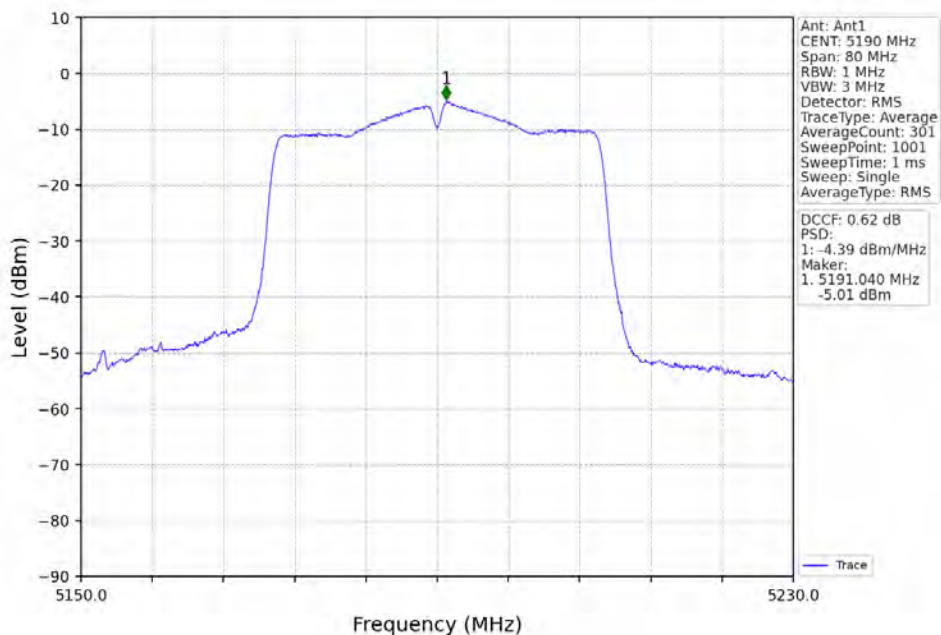
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



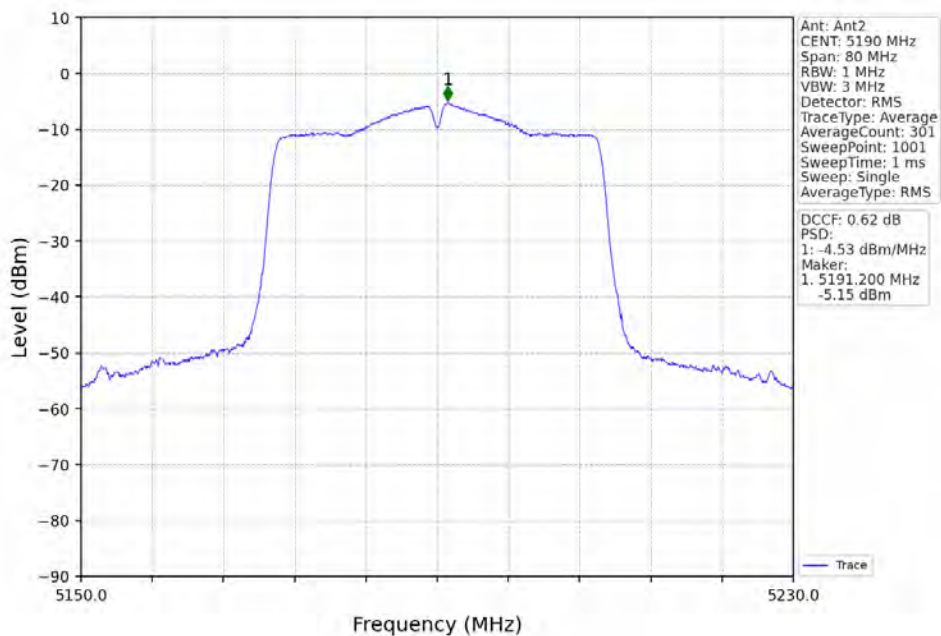
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



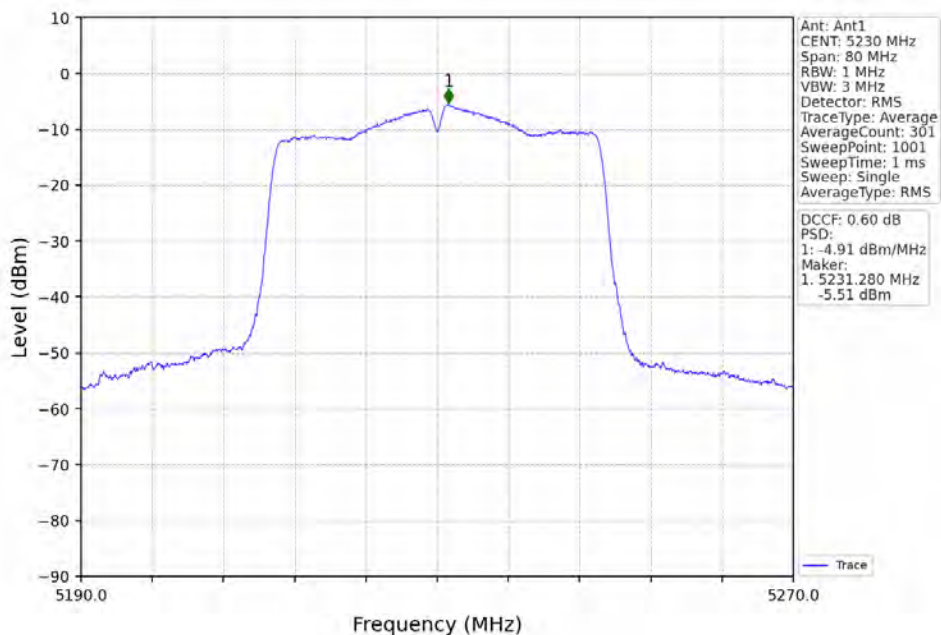
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



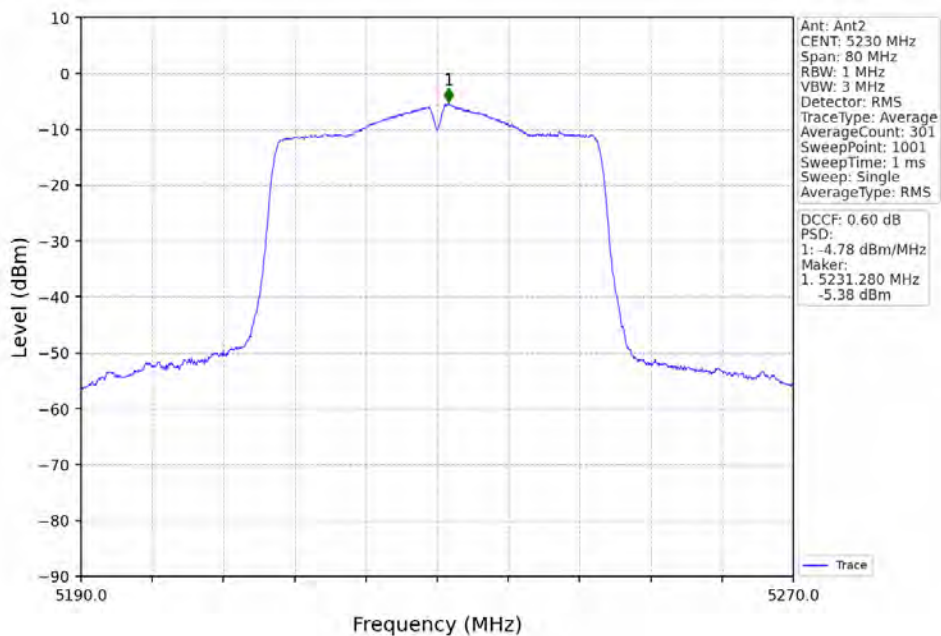
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



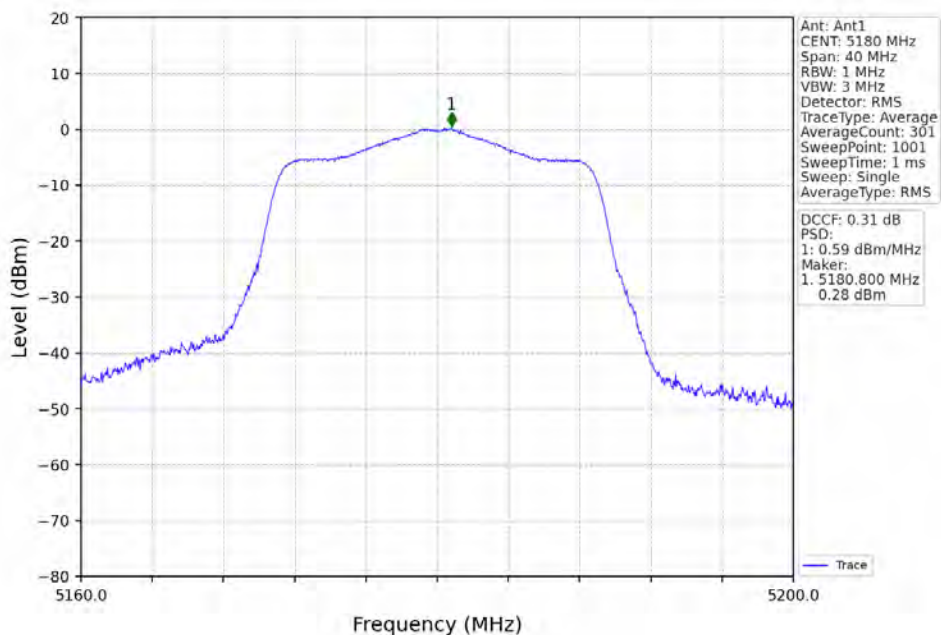
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



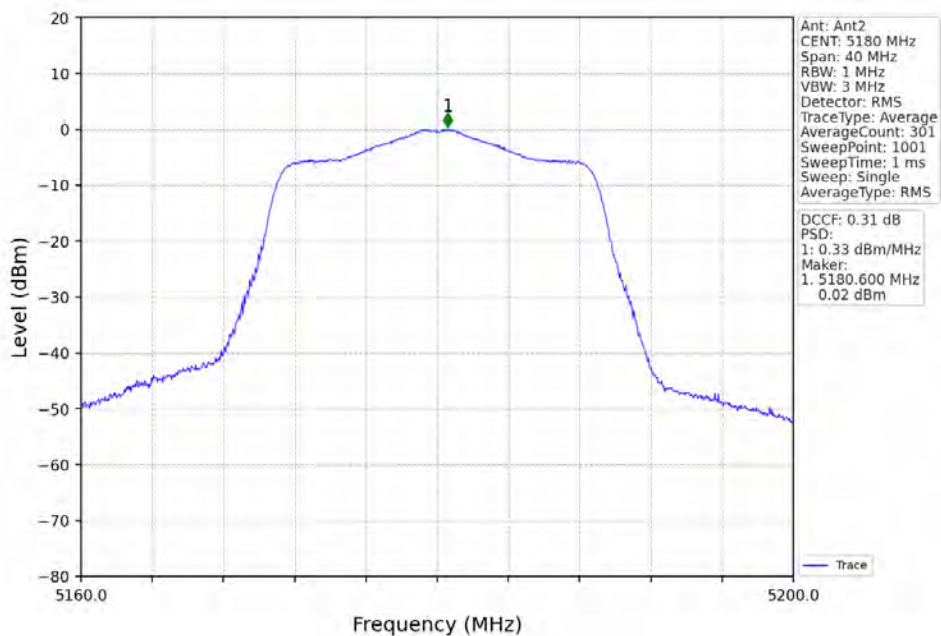
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



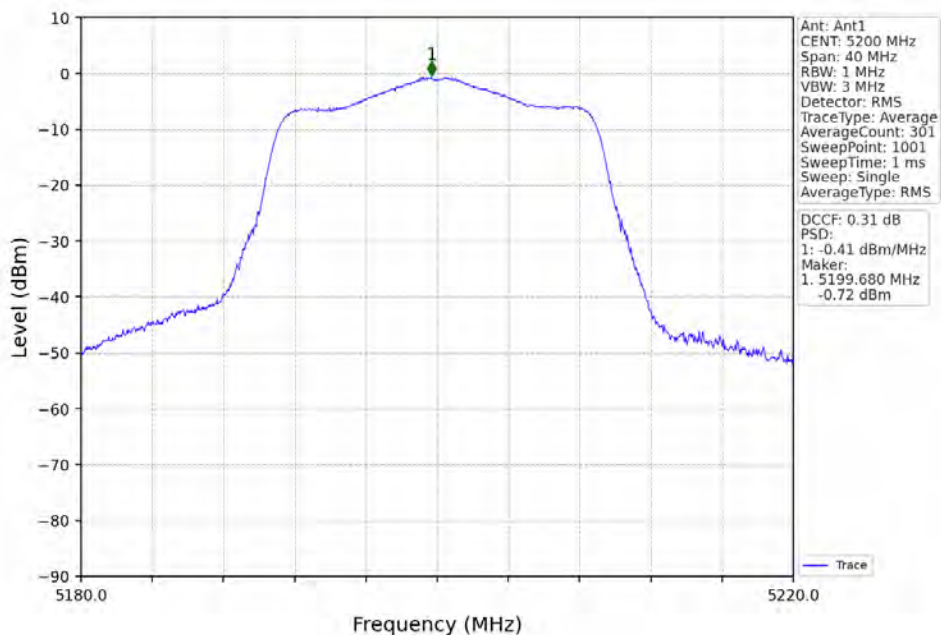
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



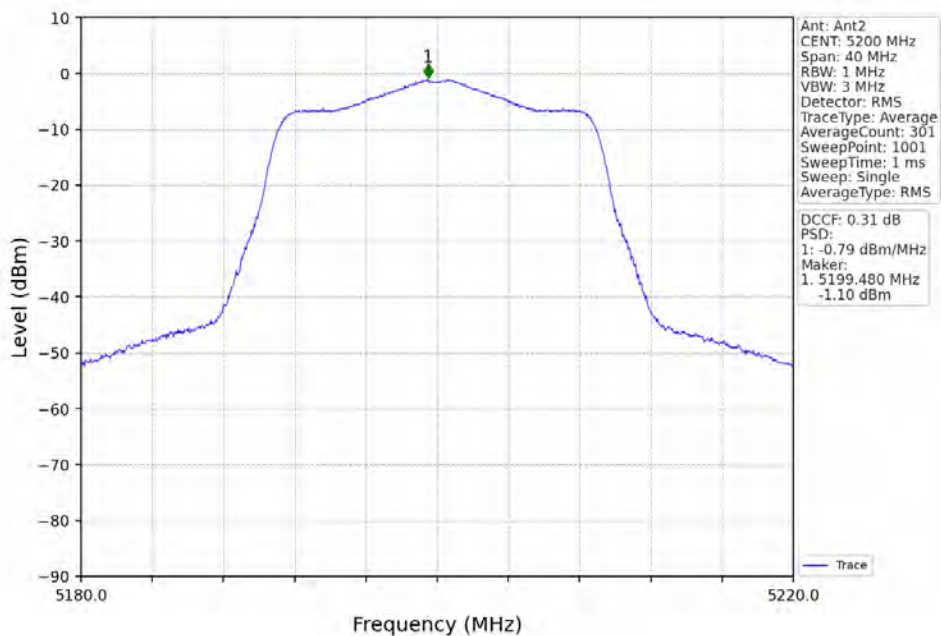
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



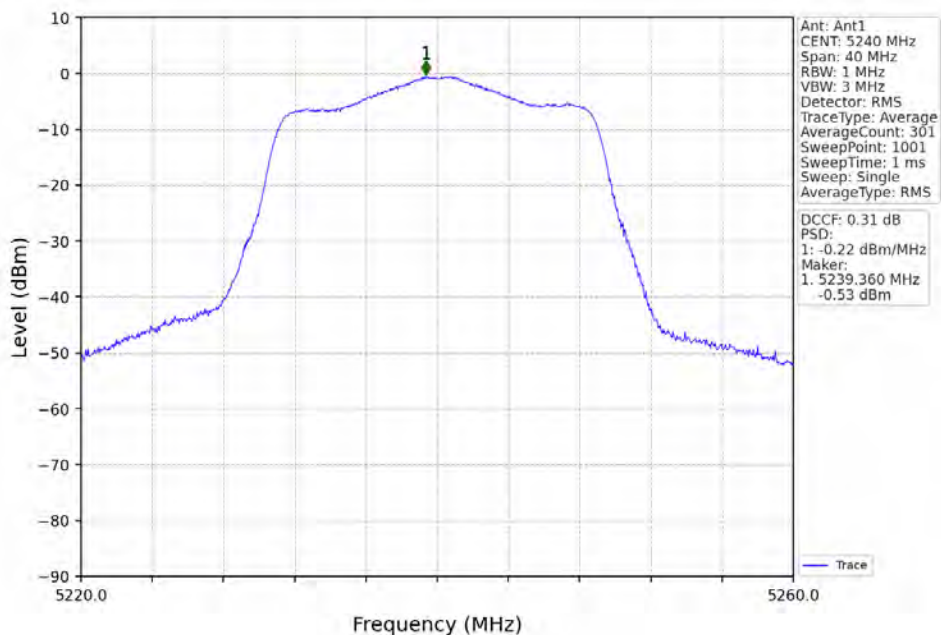
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



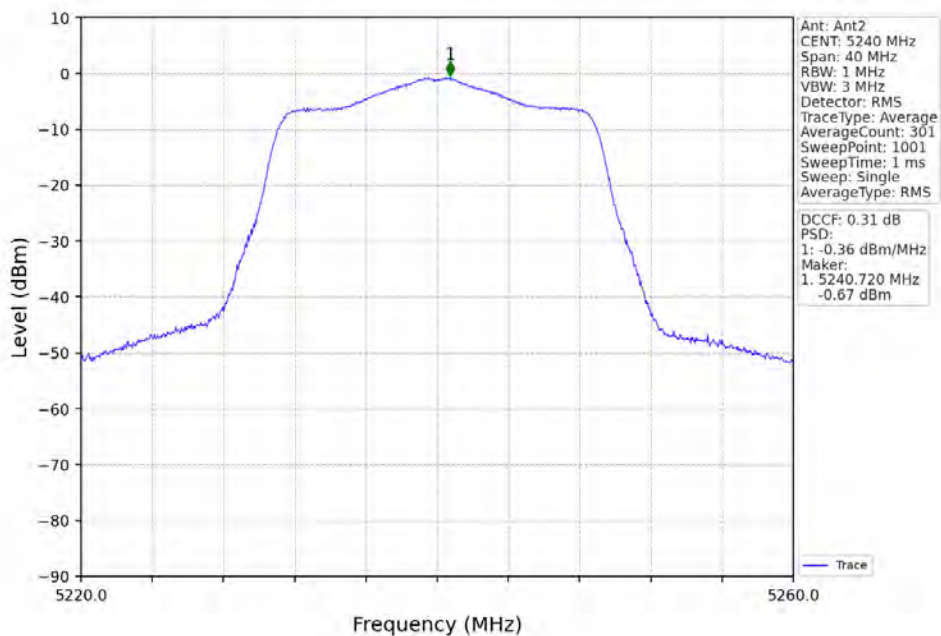
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



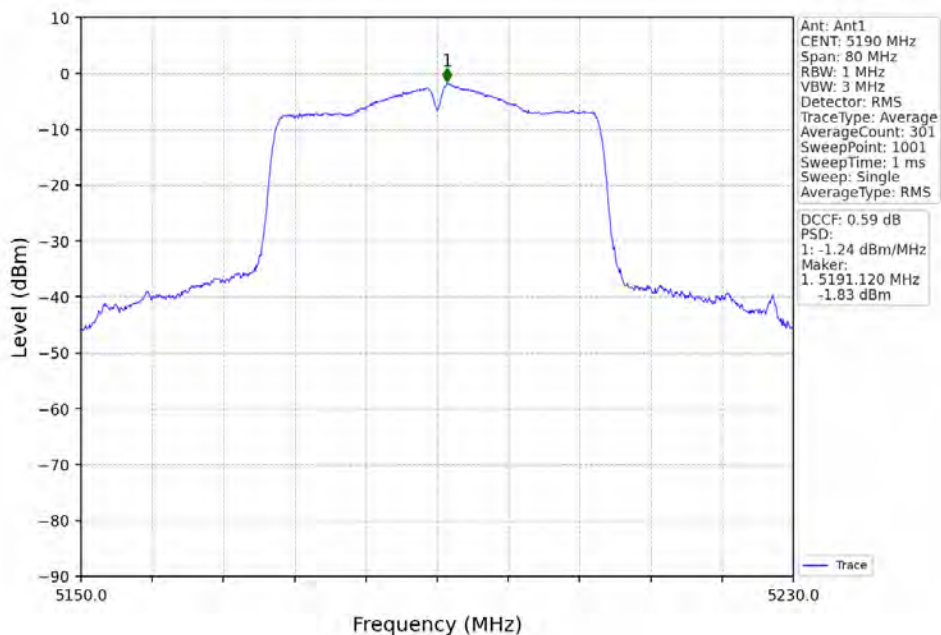
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



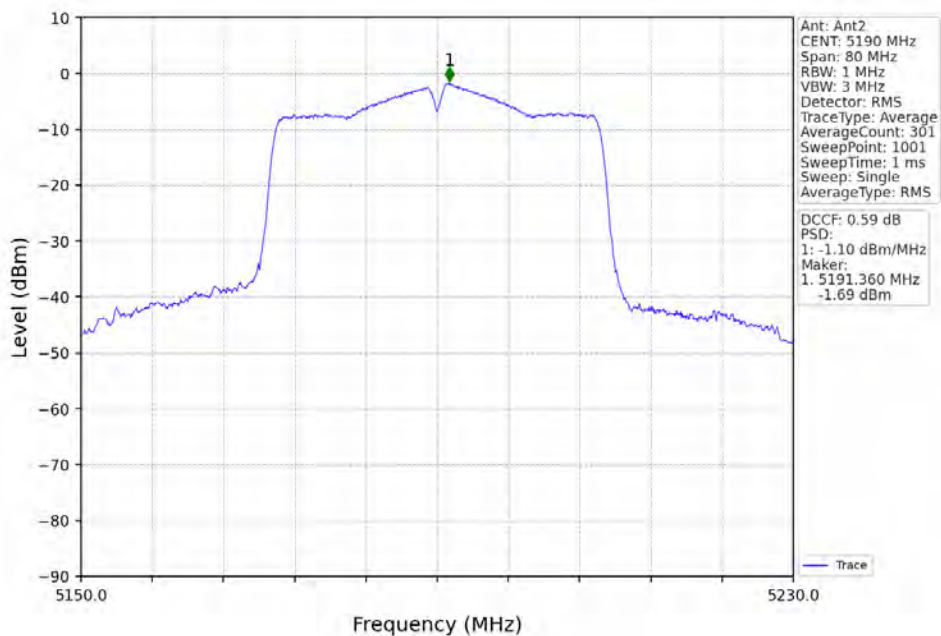
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



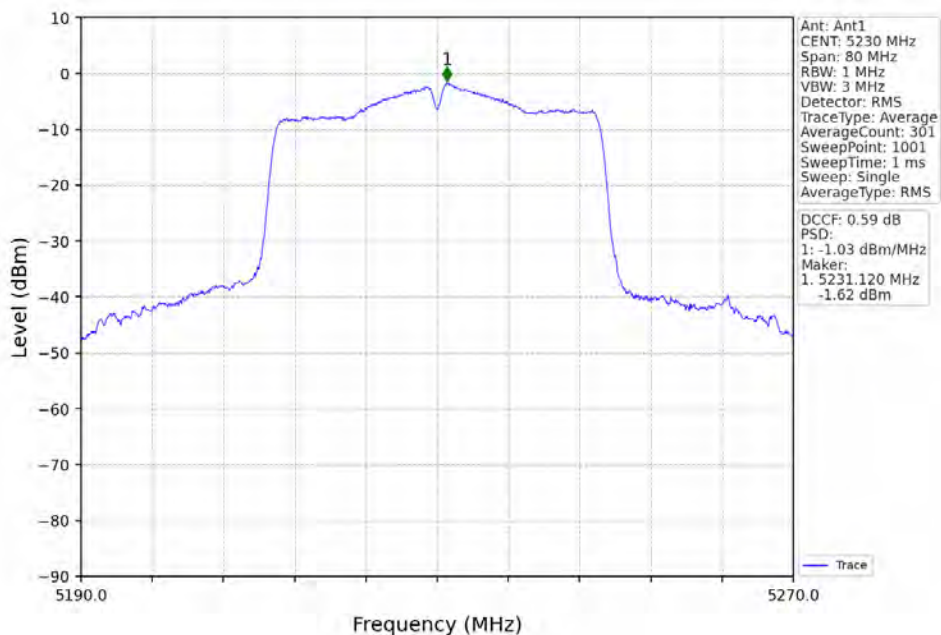
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



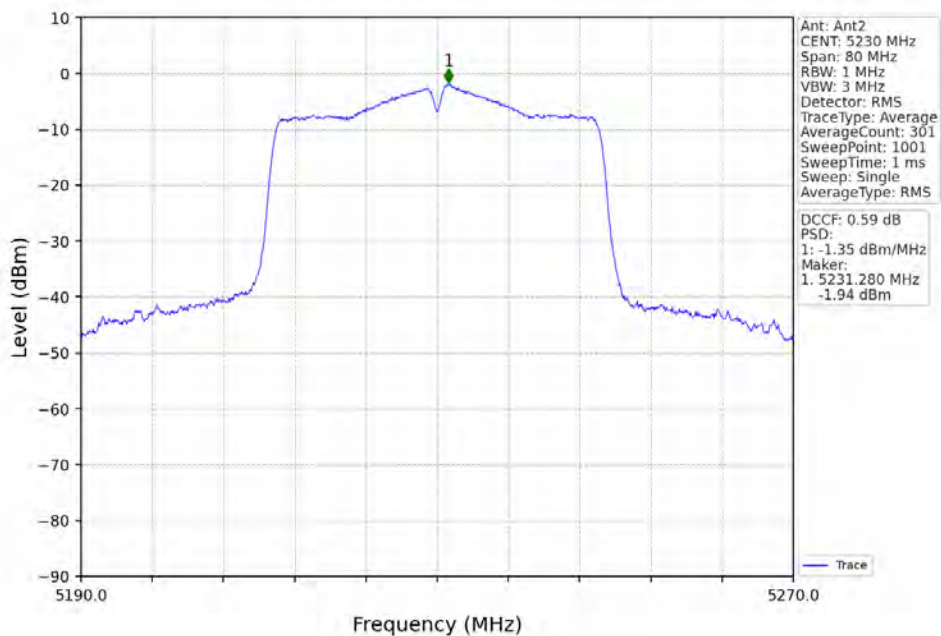
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



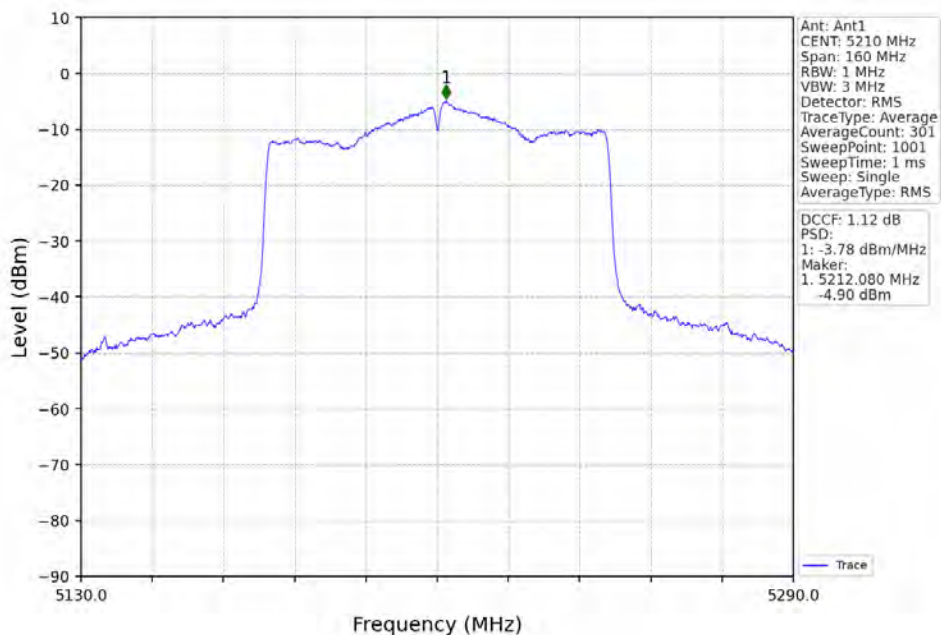
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



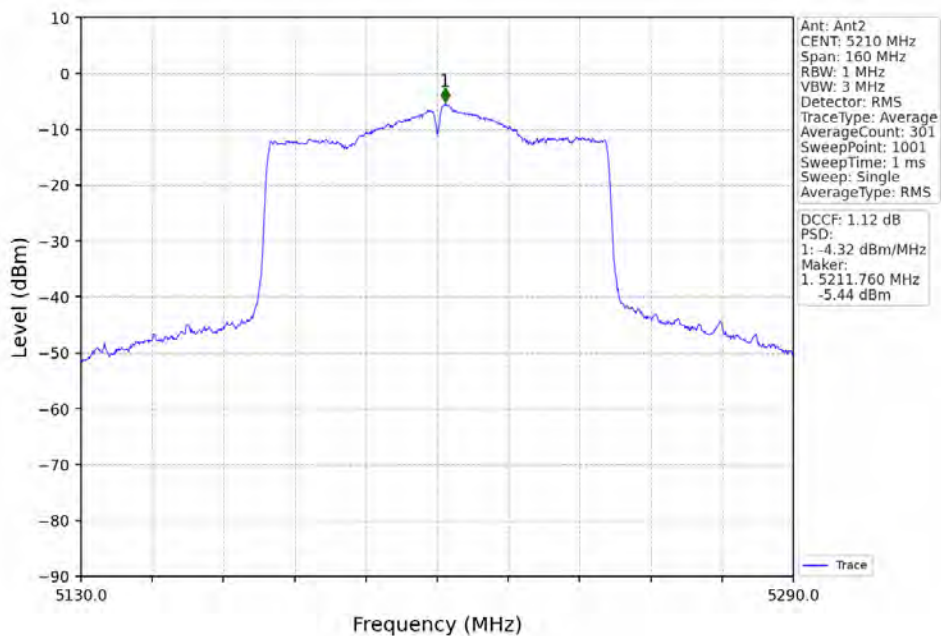
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



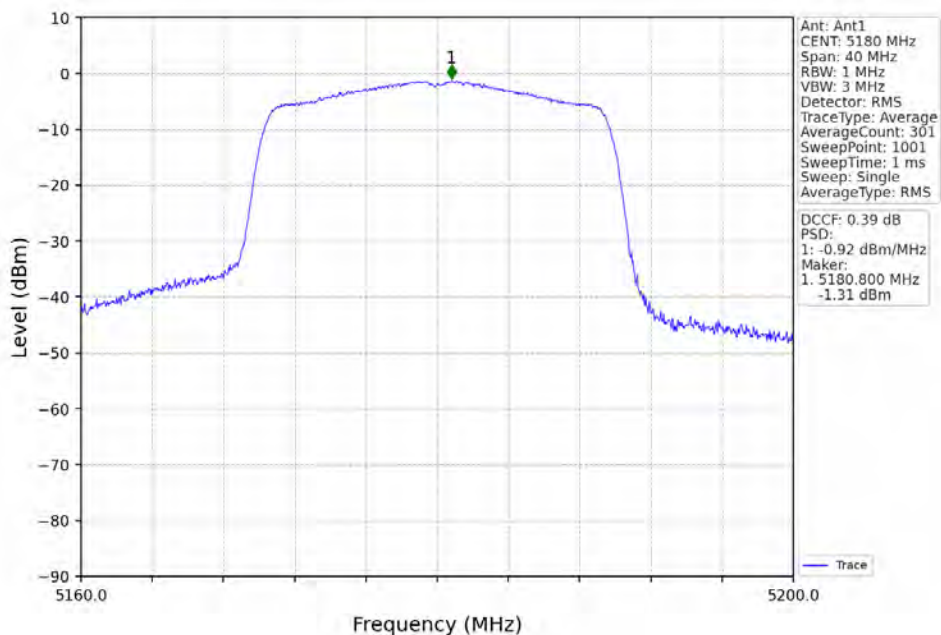
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



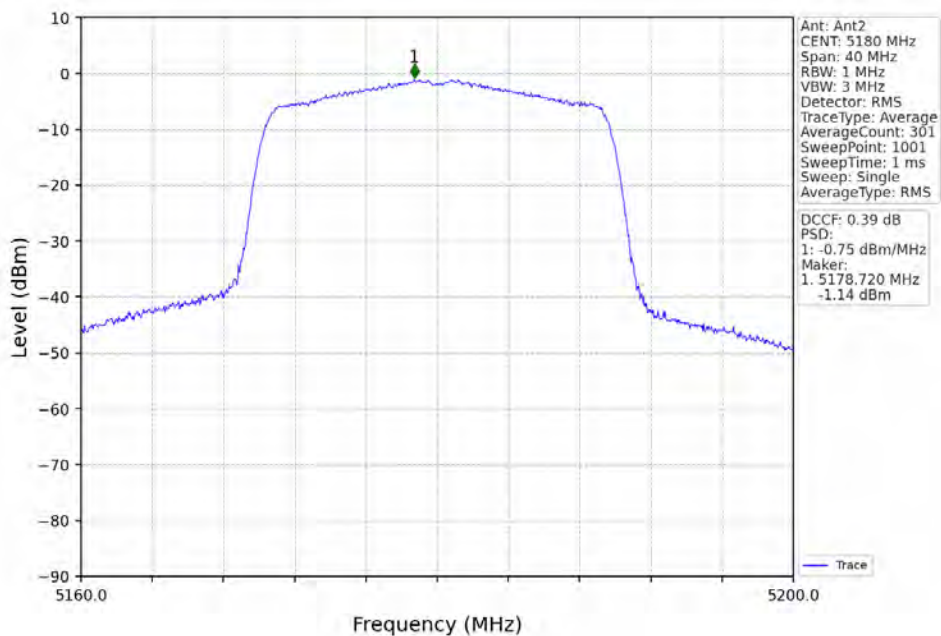
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV

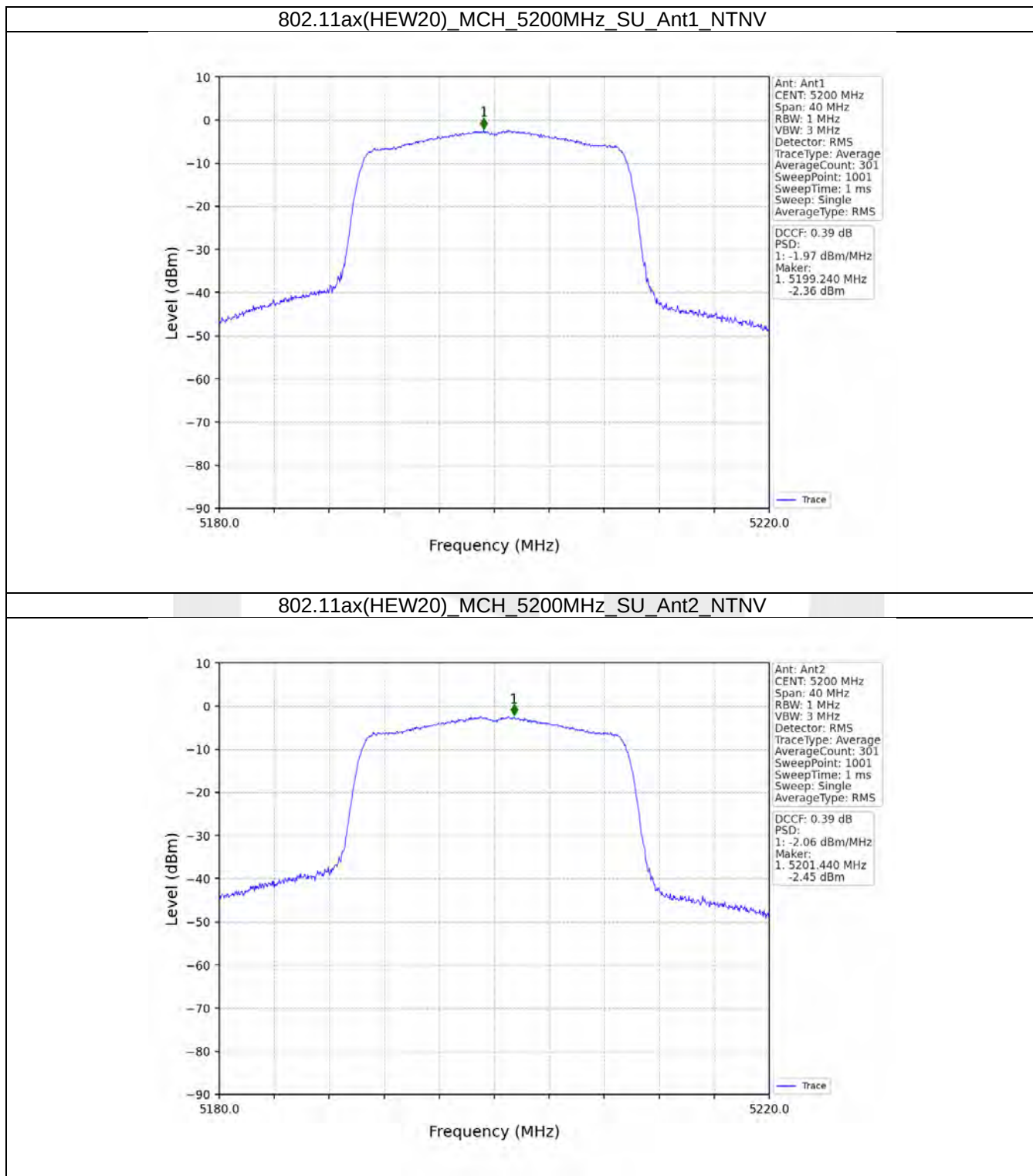


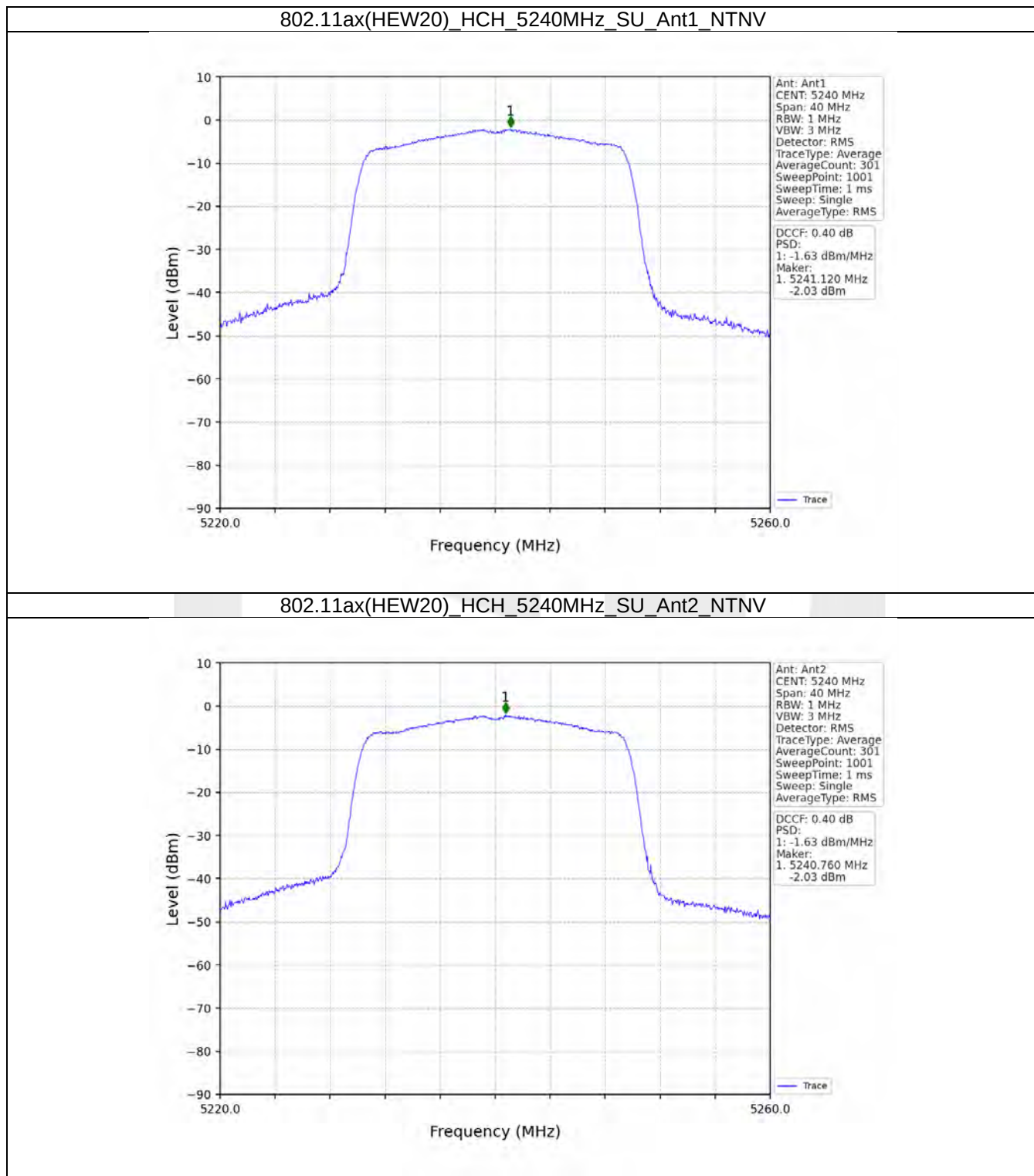
802.11ax(HEW20)_LCH_5180MHz_SU_Ant1_NTNV

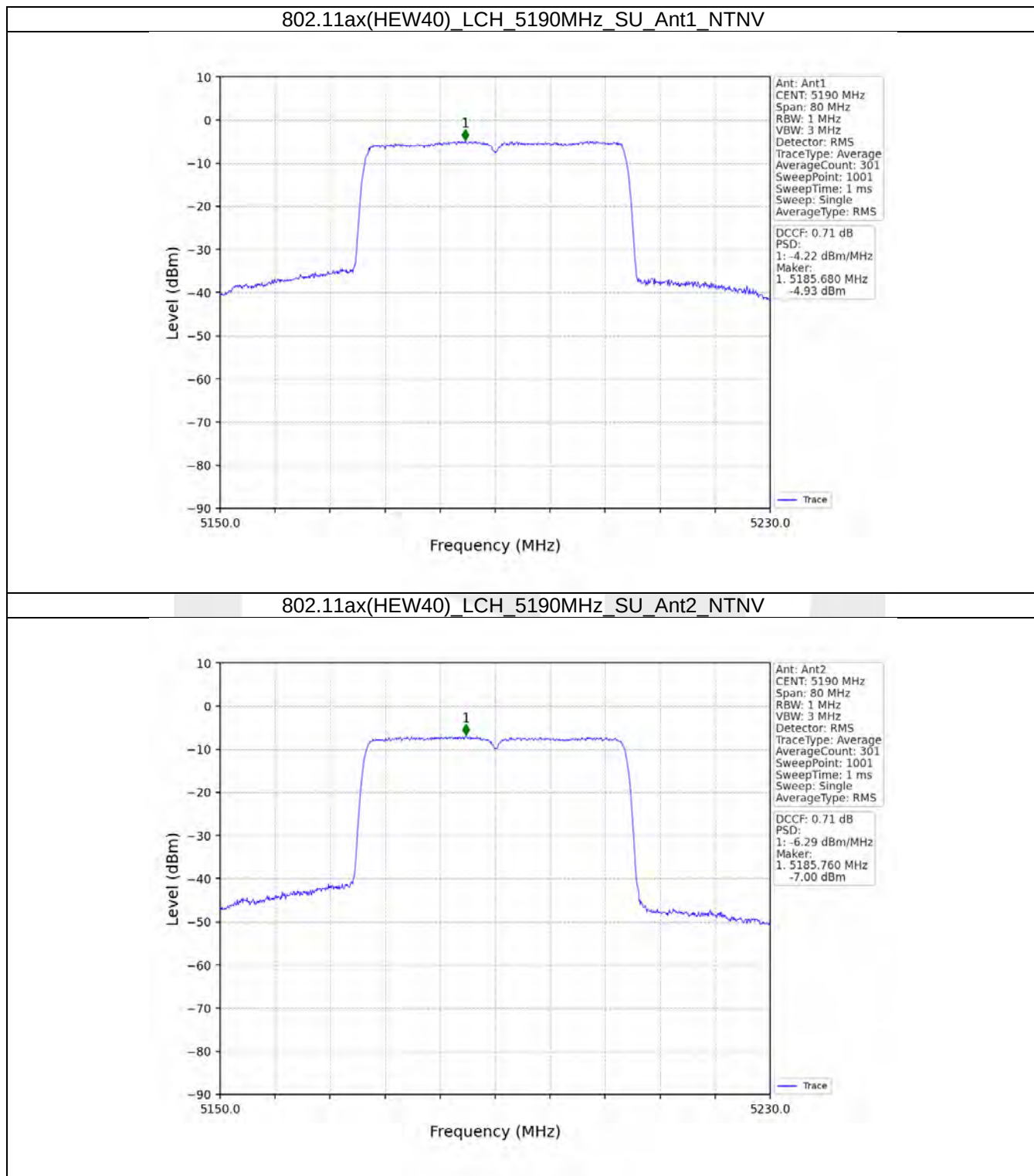


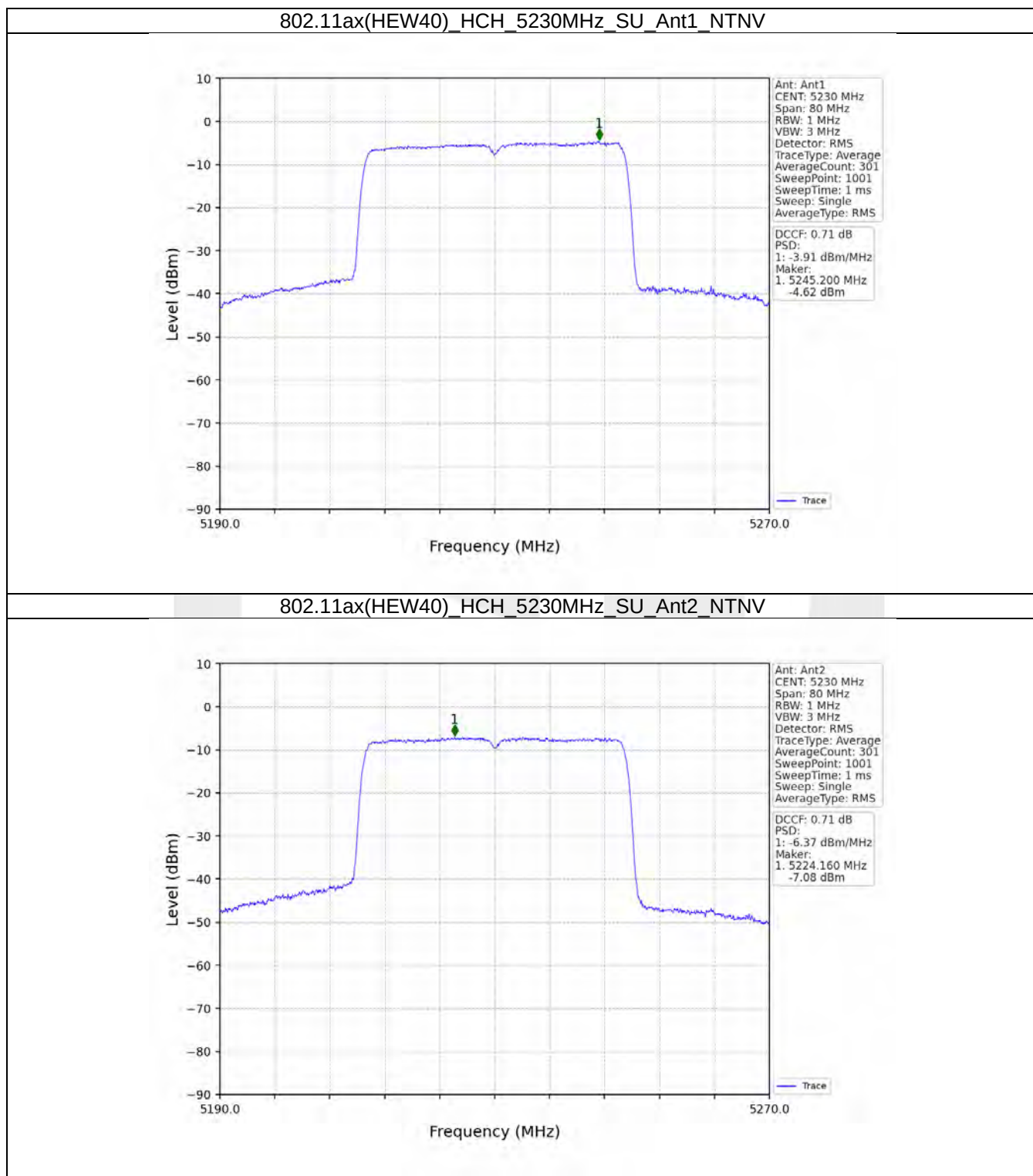
802.11ax(HEW20)_LCH_5180MHz_SU_Ant2_NTNV

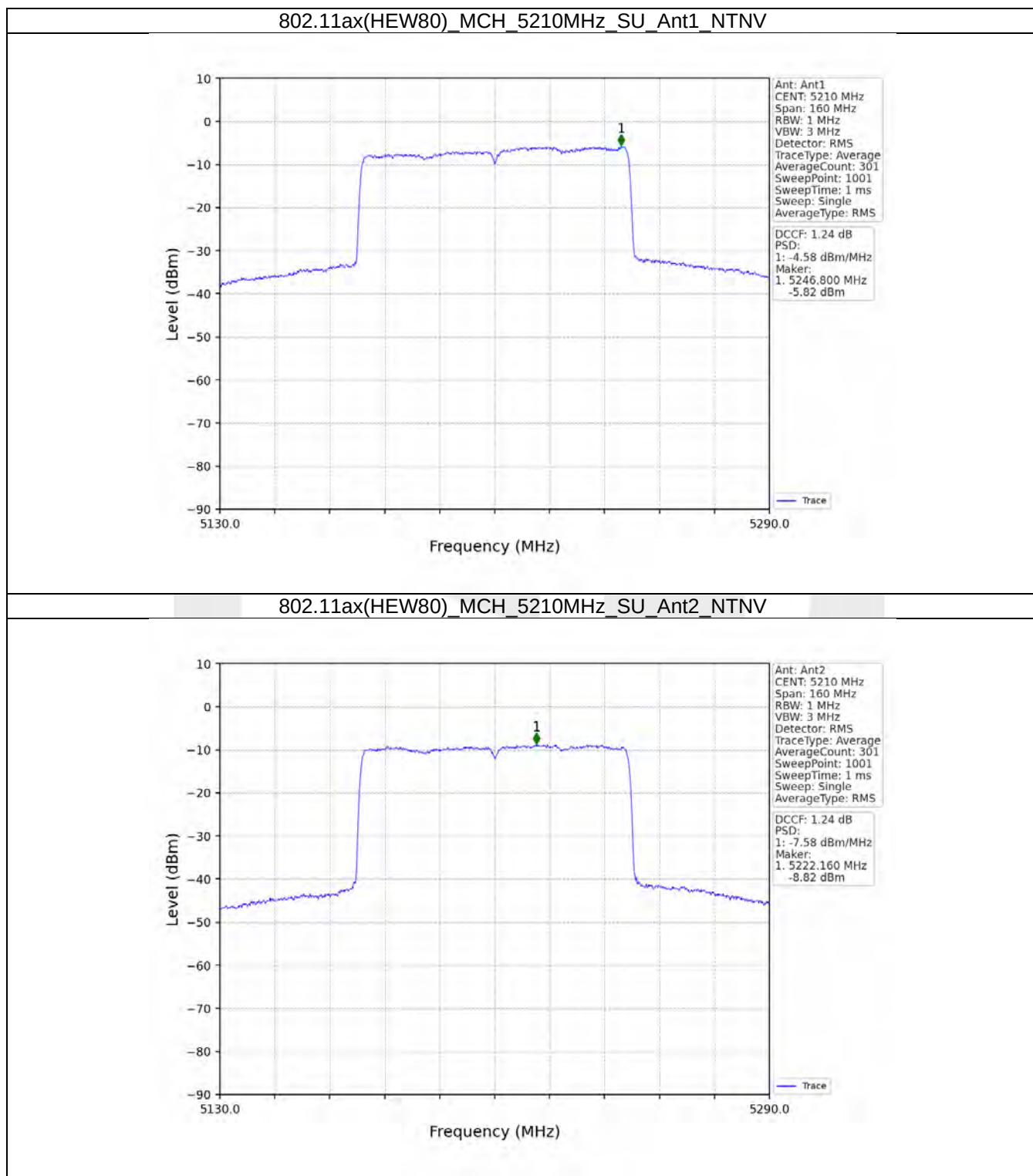




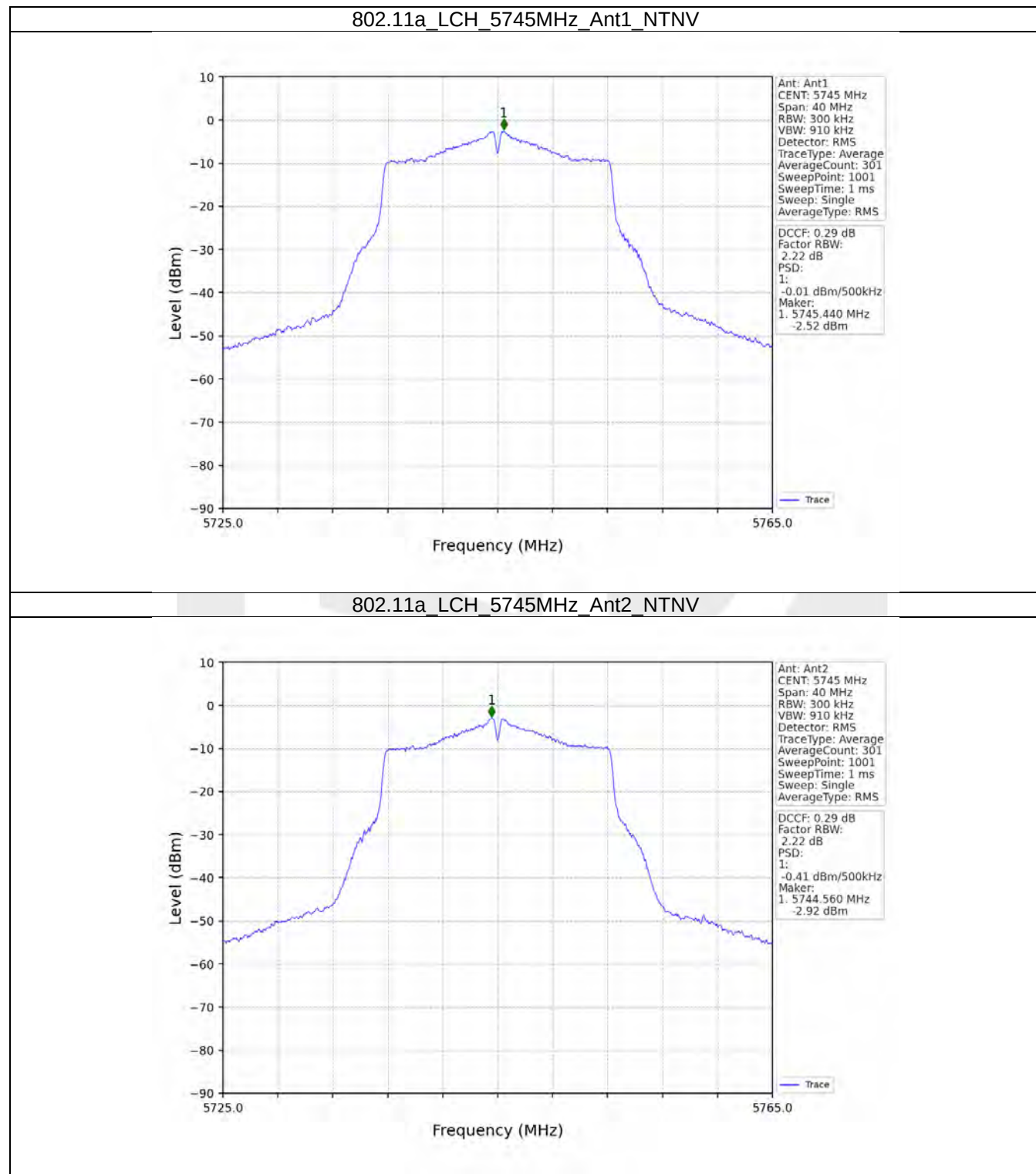


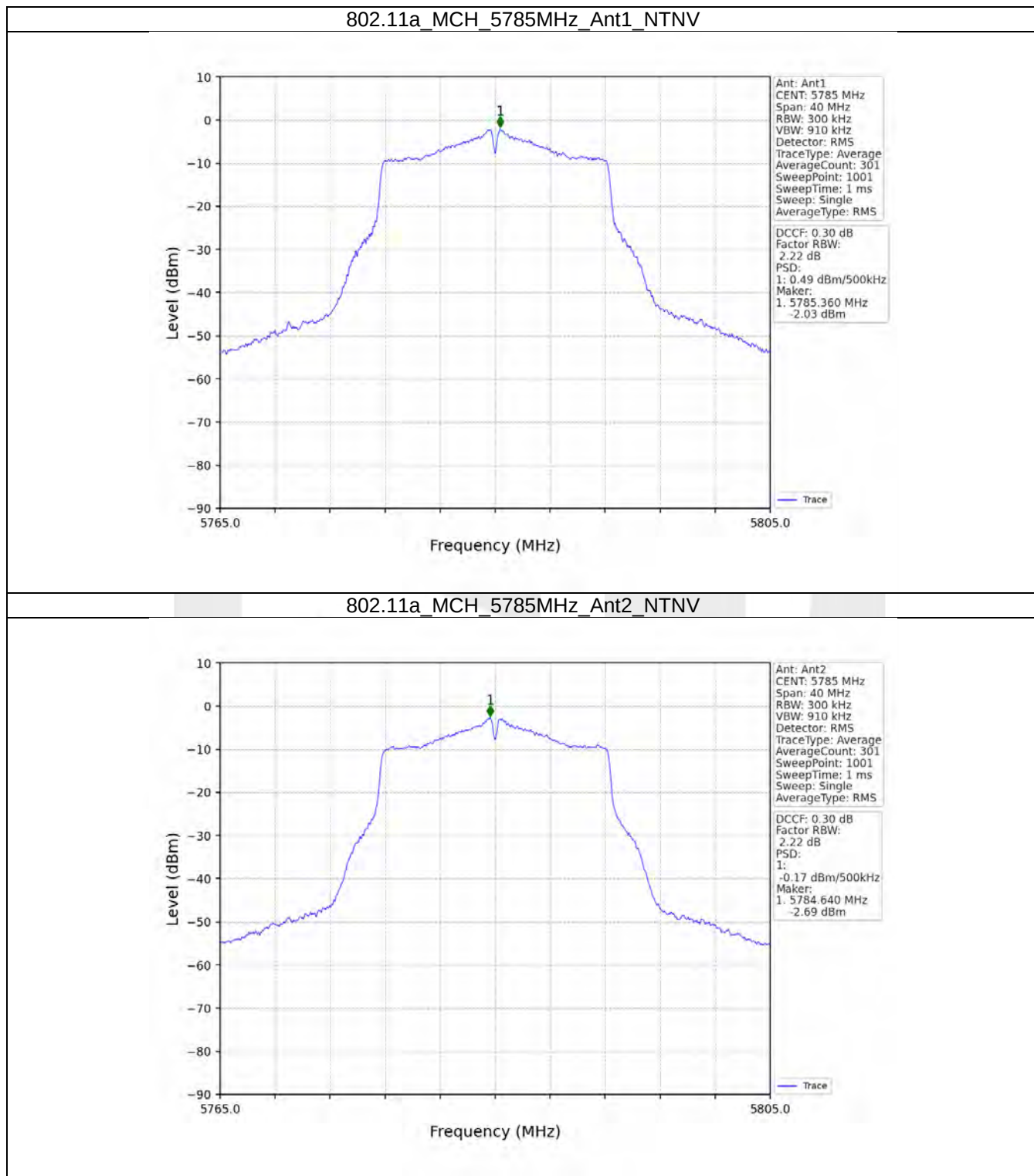


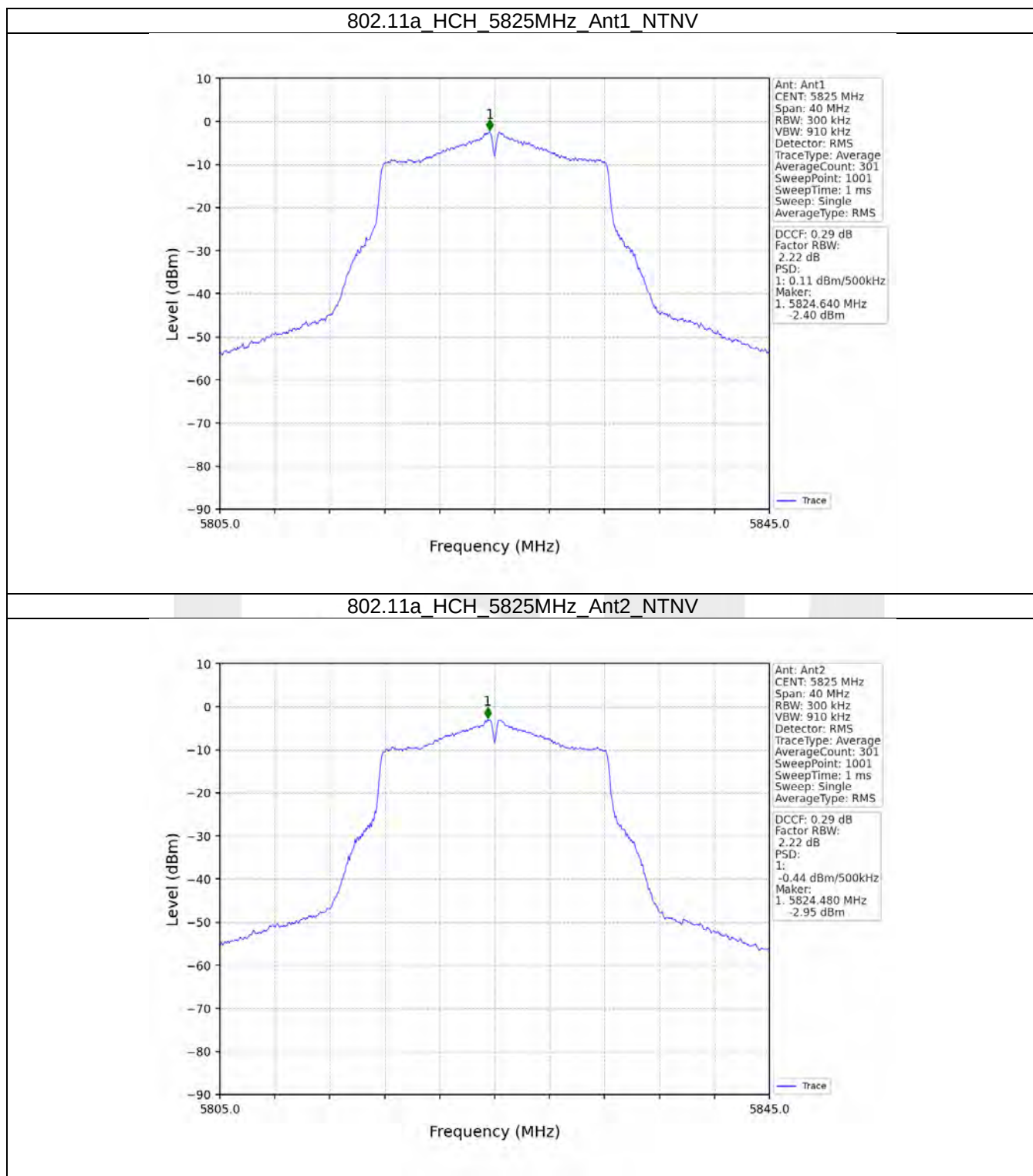




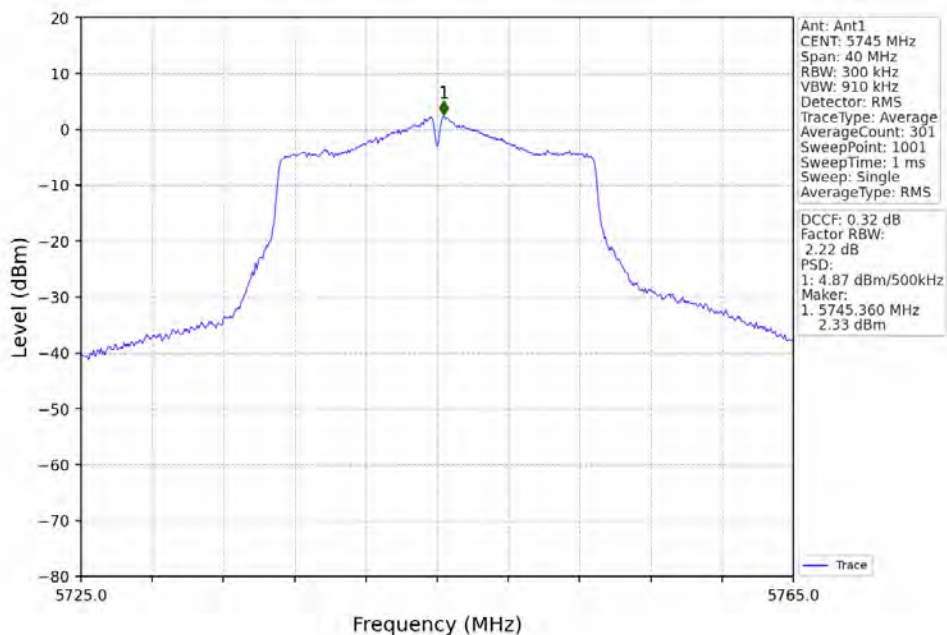
4.2.2 PSD-Band3



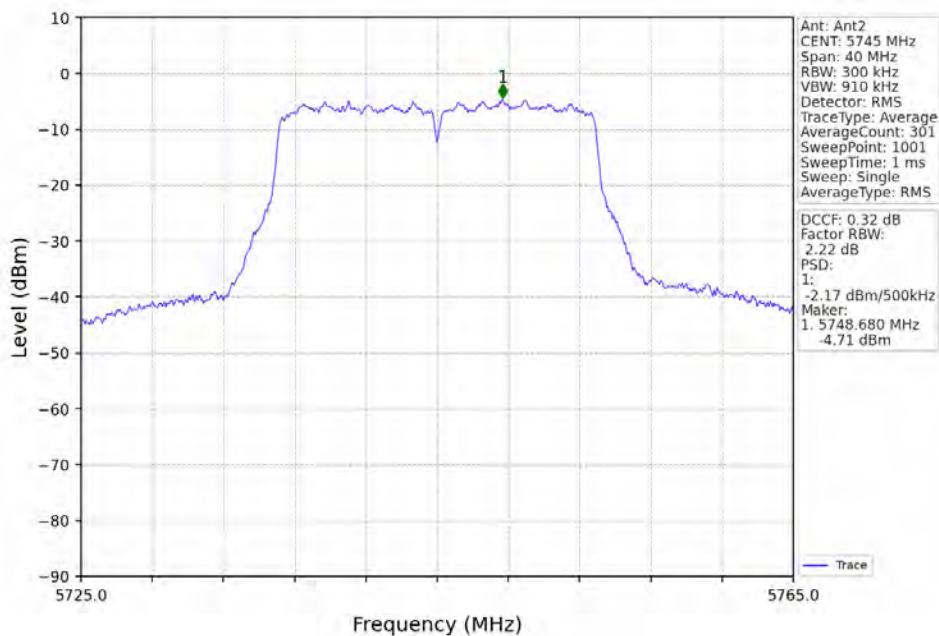




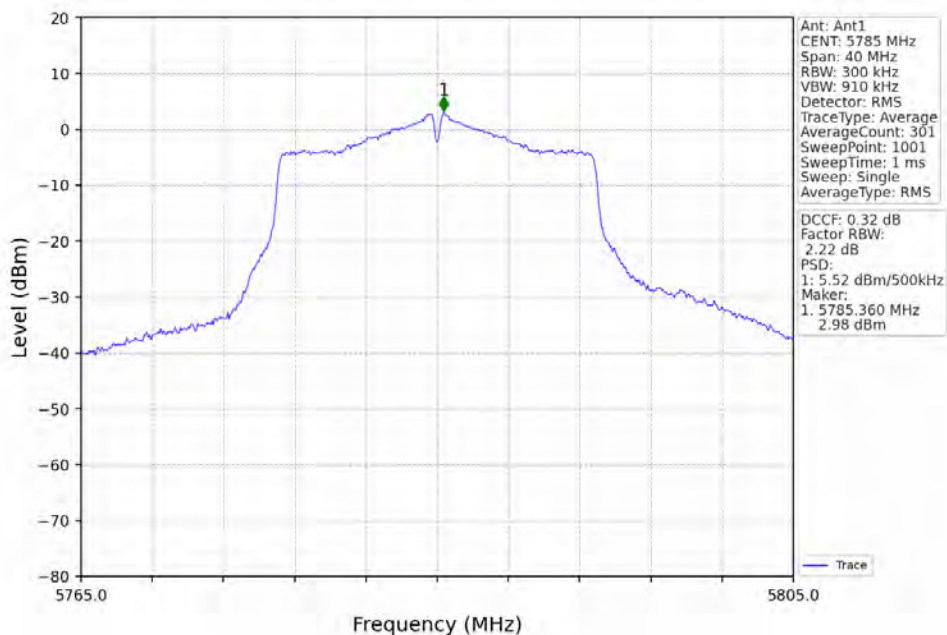
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



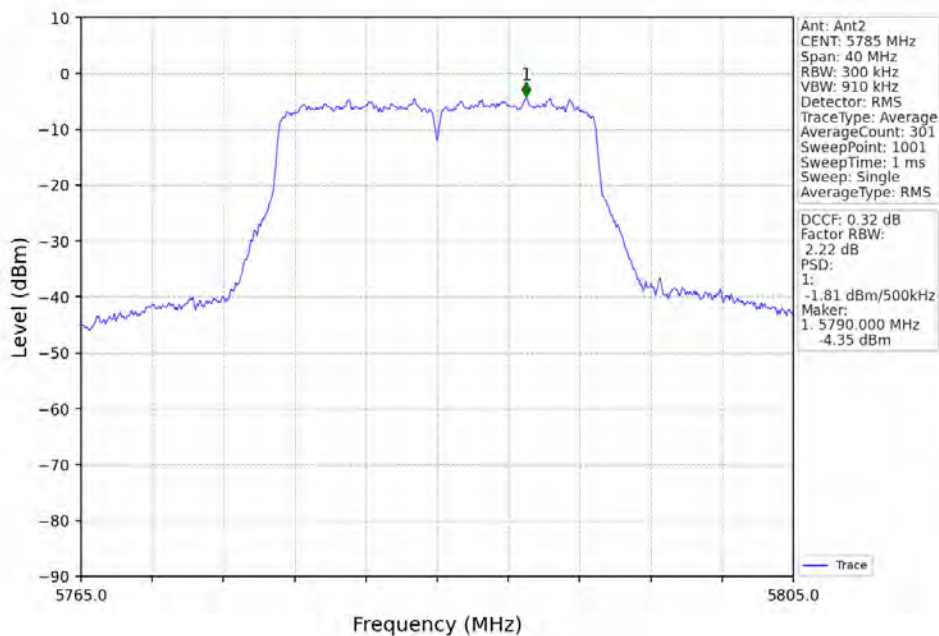
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



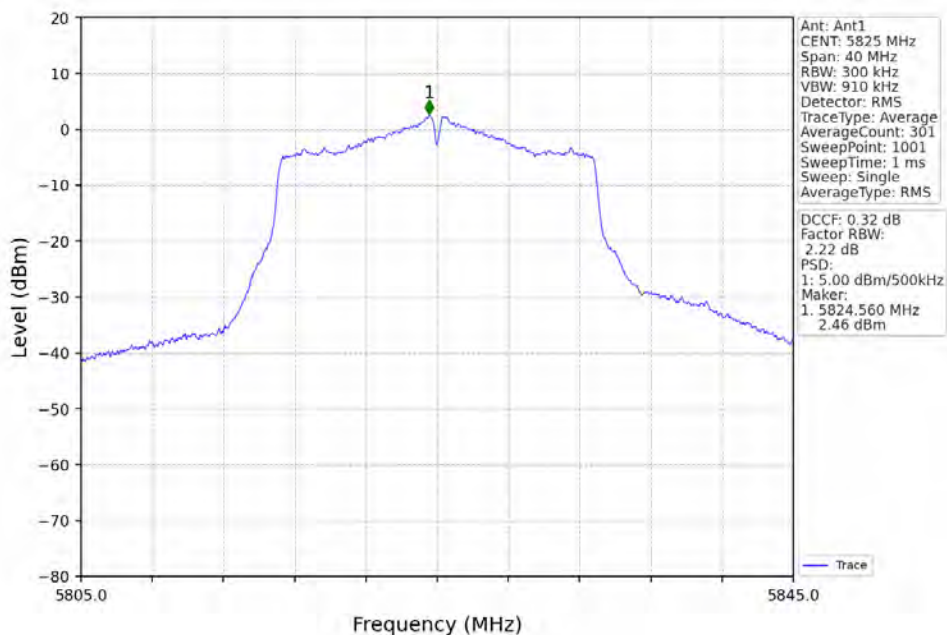
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



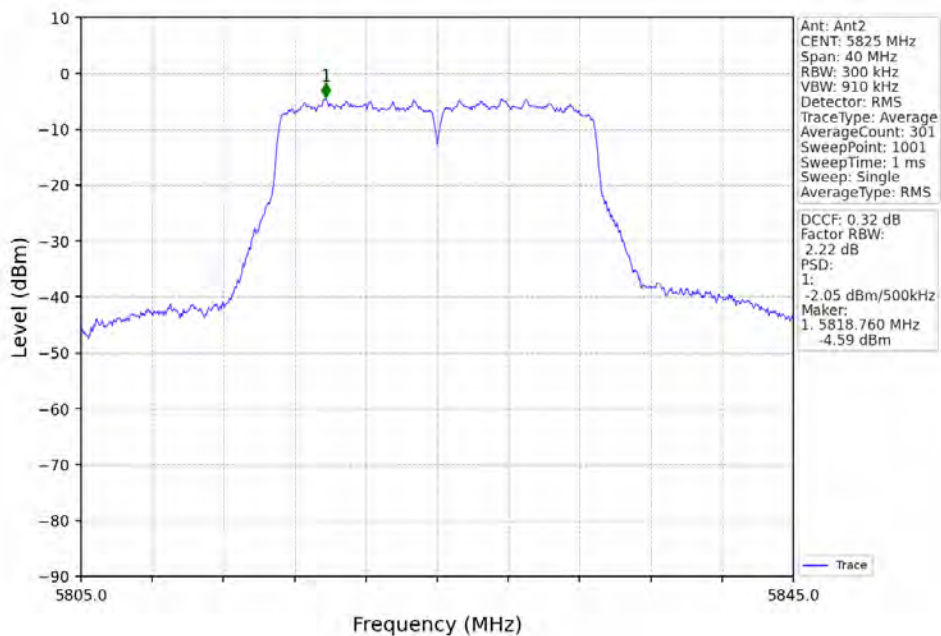
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



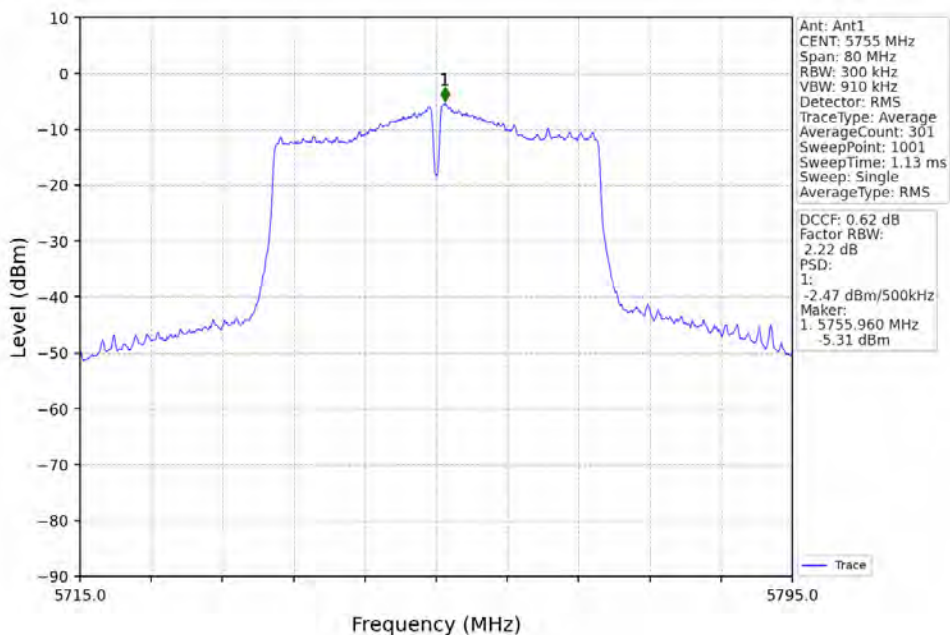
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



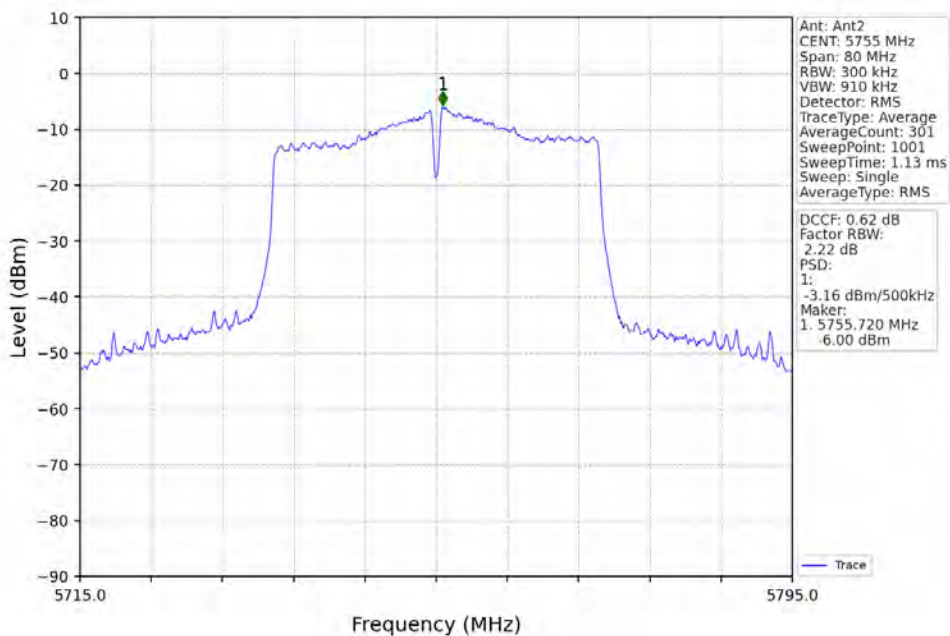
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV

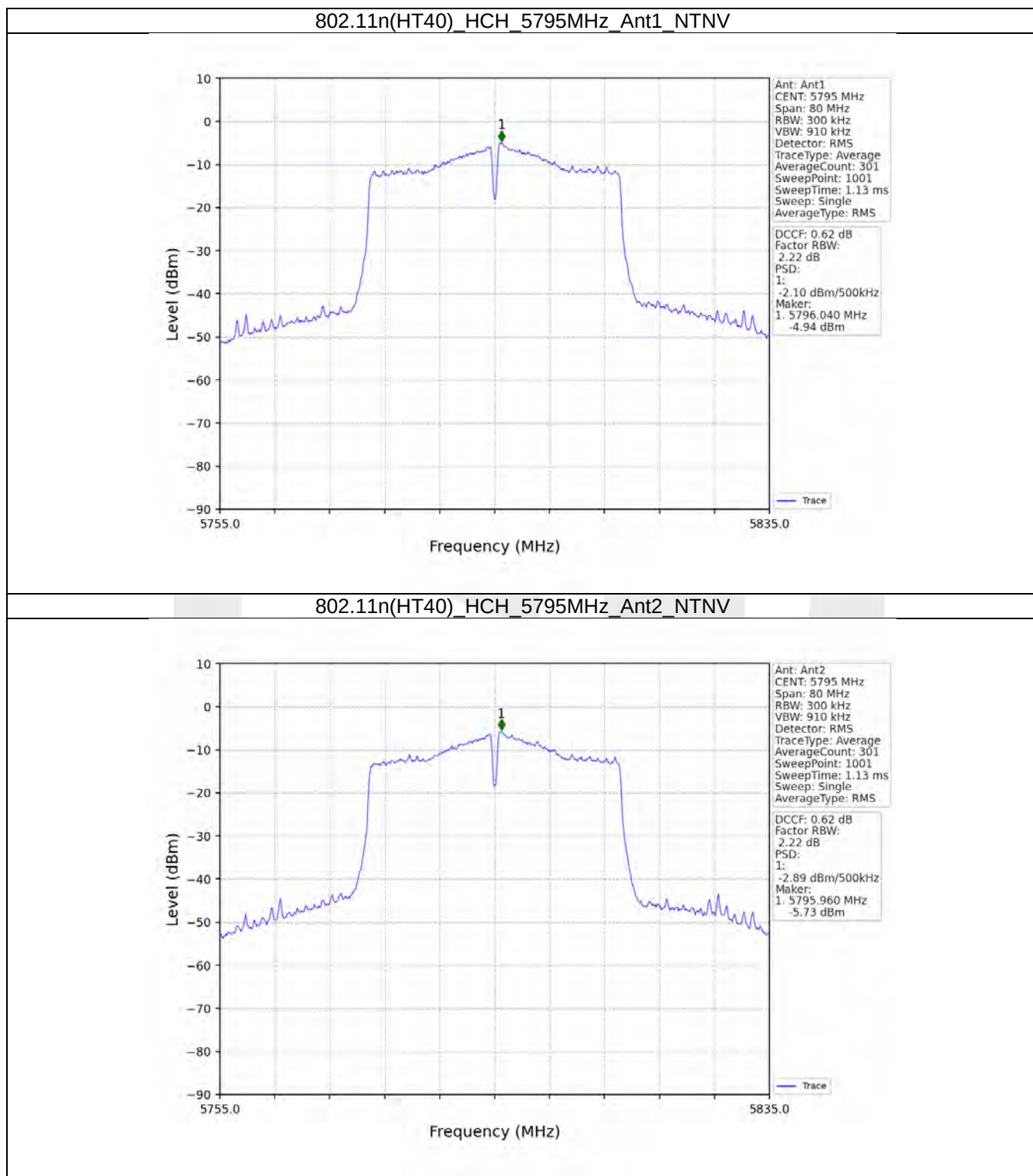


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

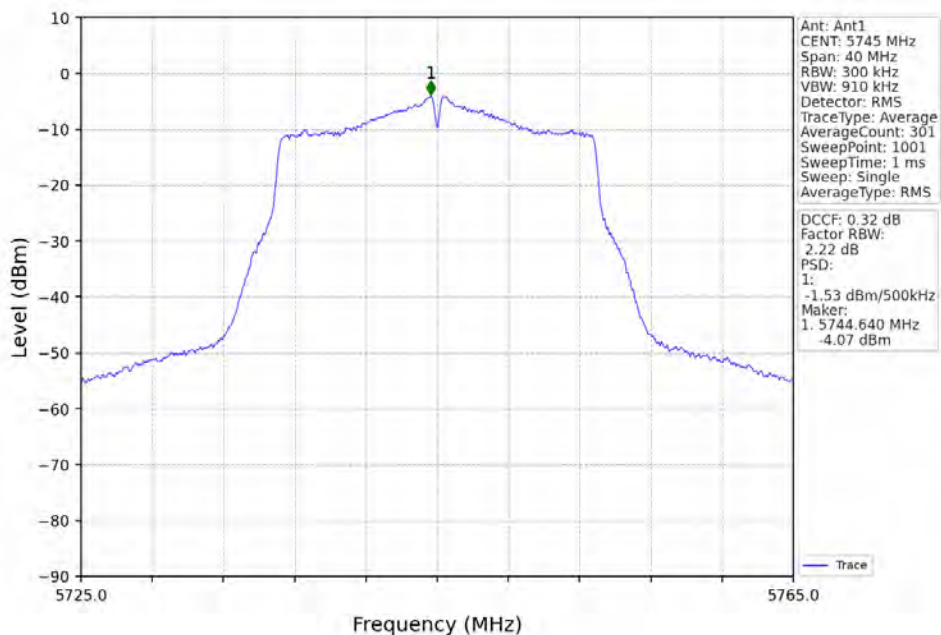


802.11n(HT40)_LCH_5755MHz_Ant2_NTNV

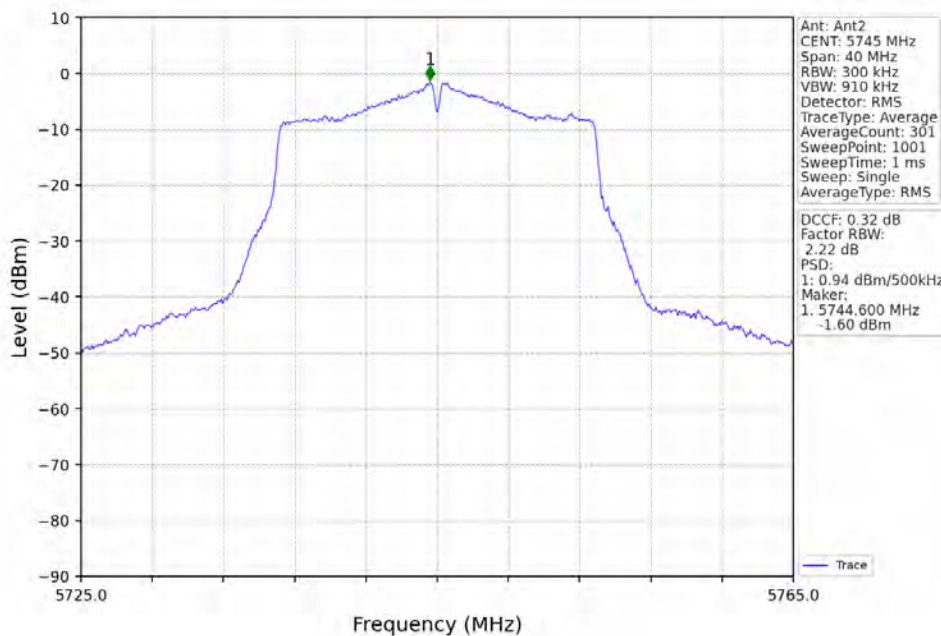




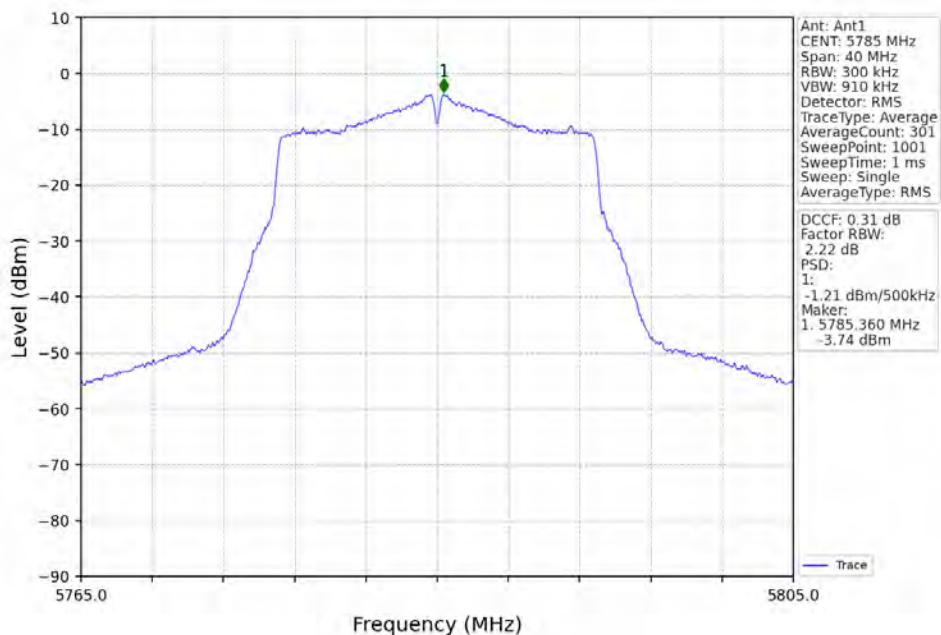
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



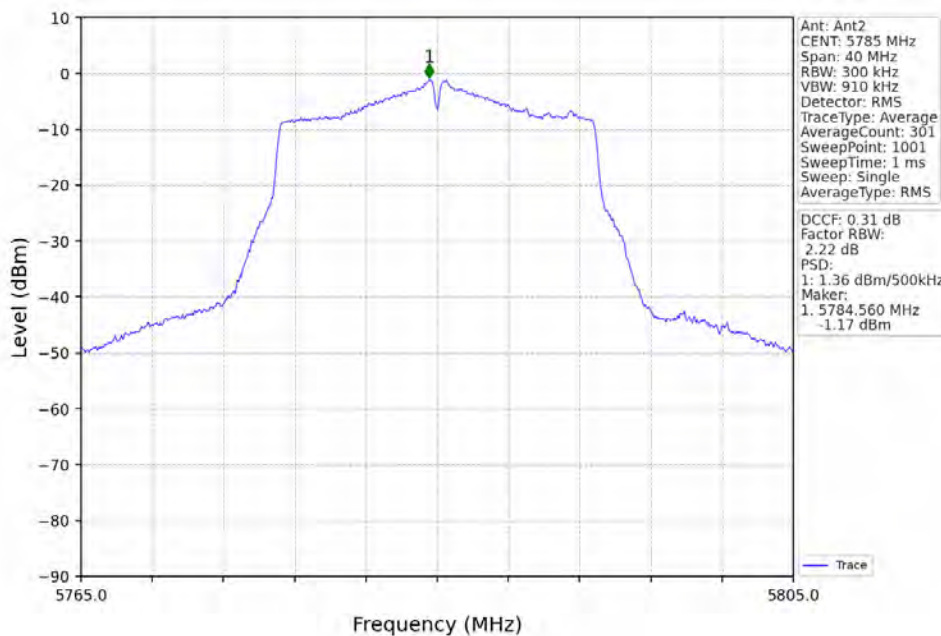
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



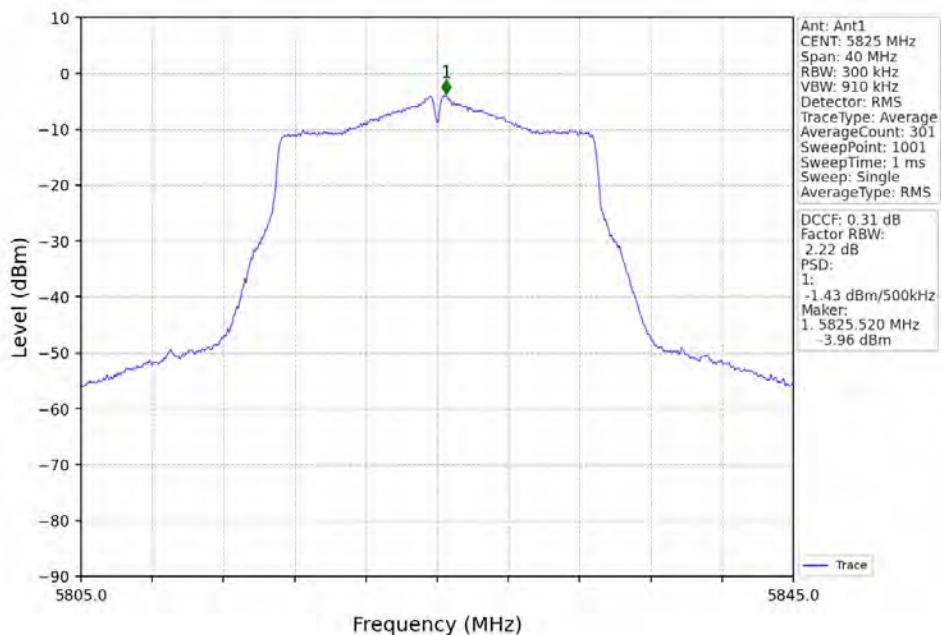
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



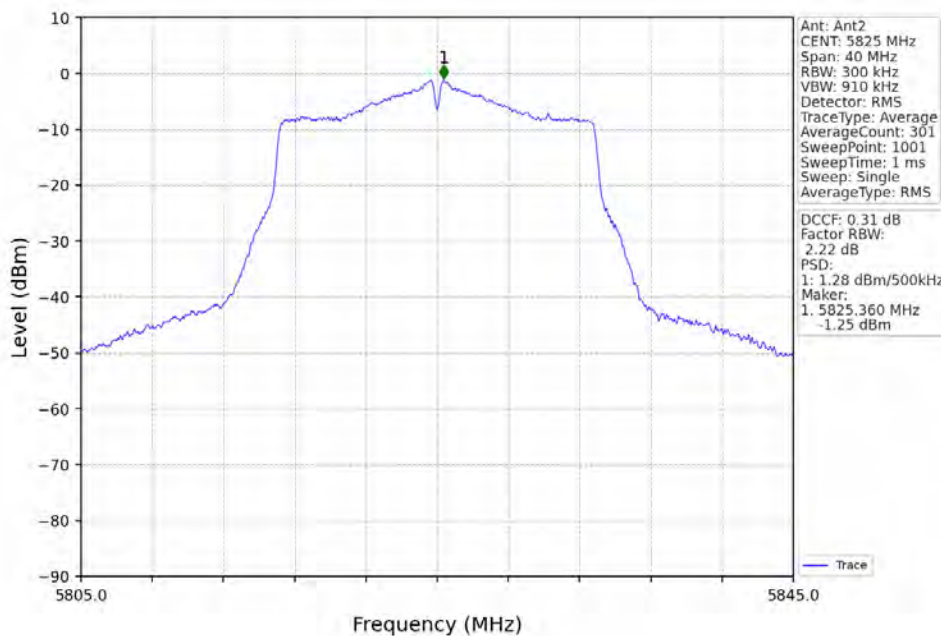
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



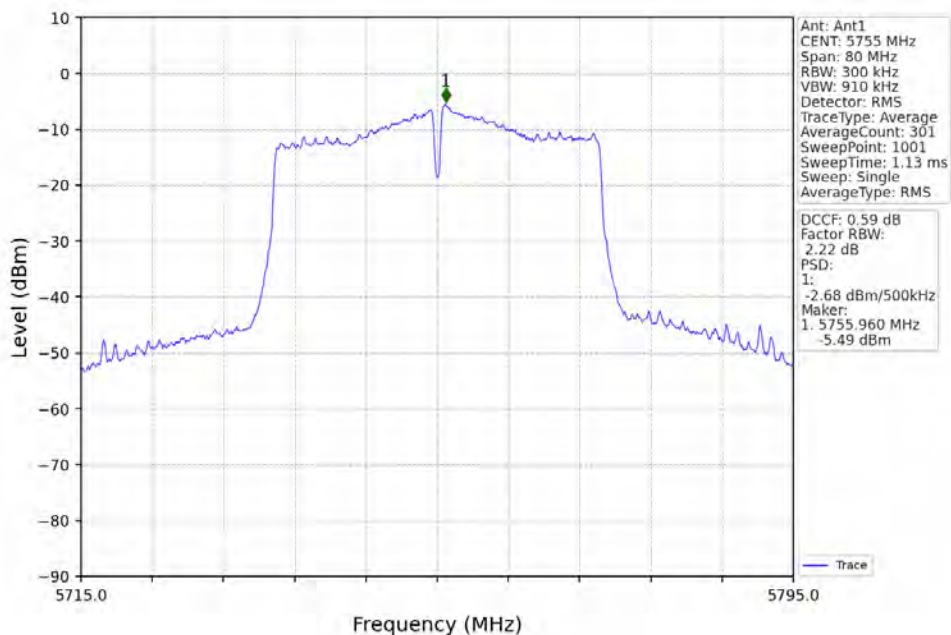
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



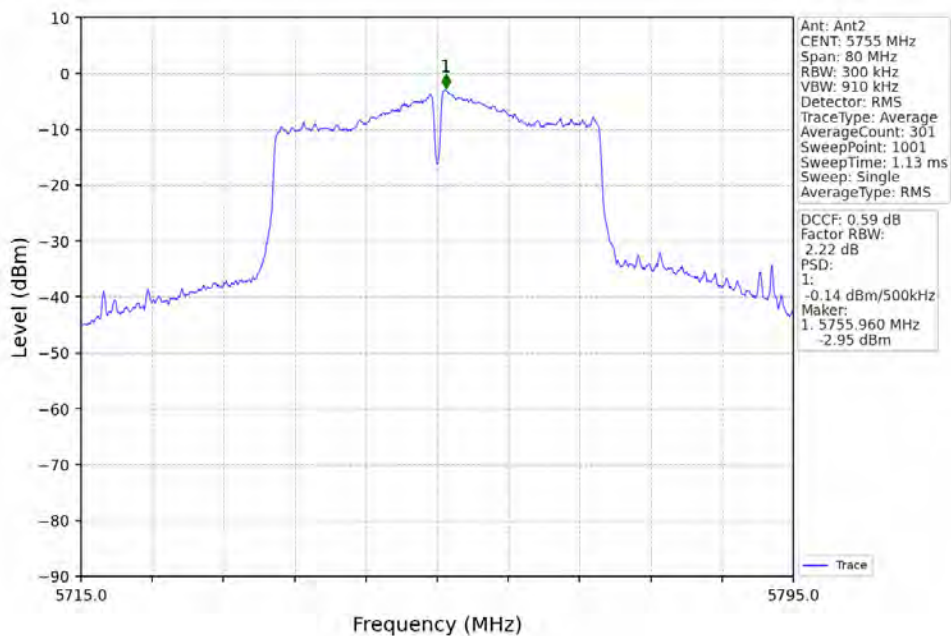
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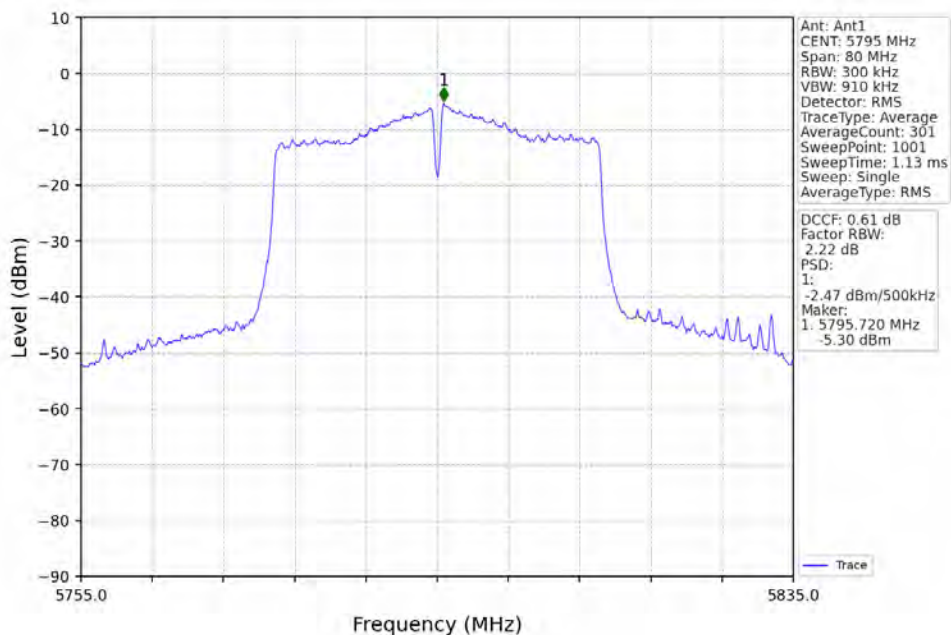
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



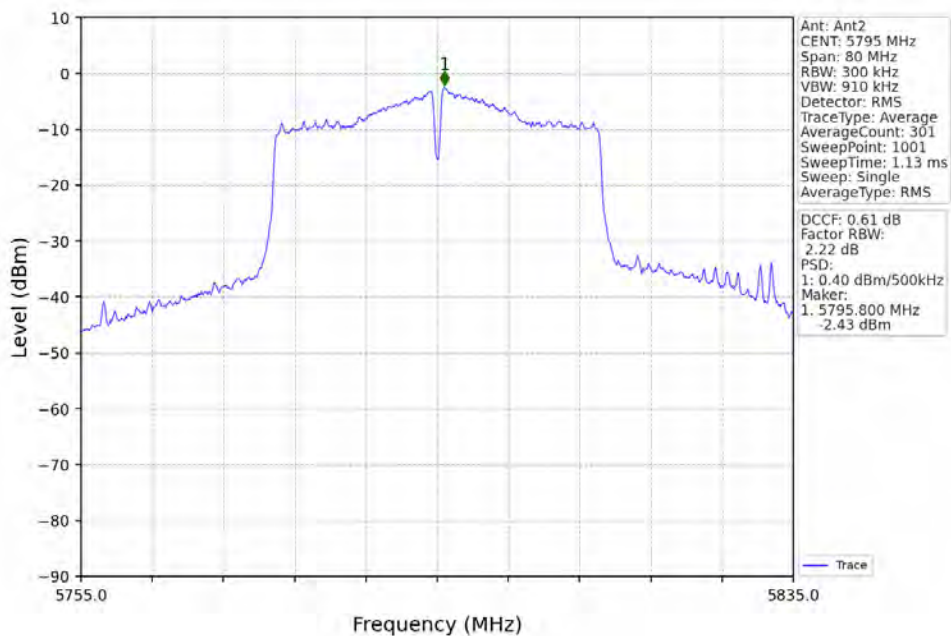
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



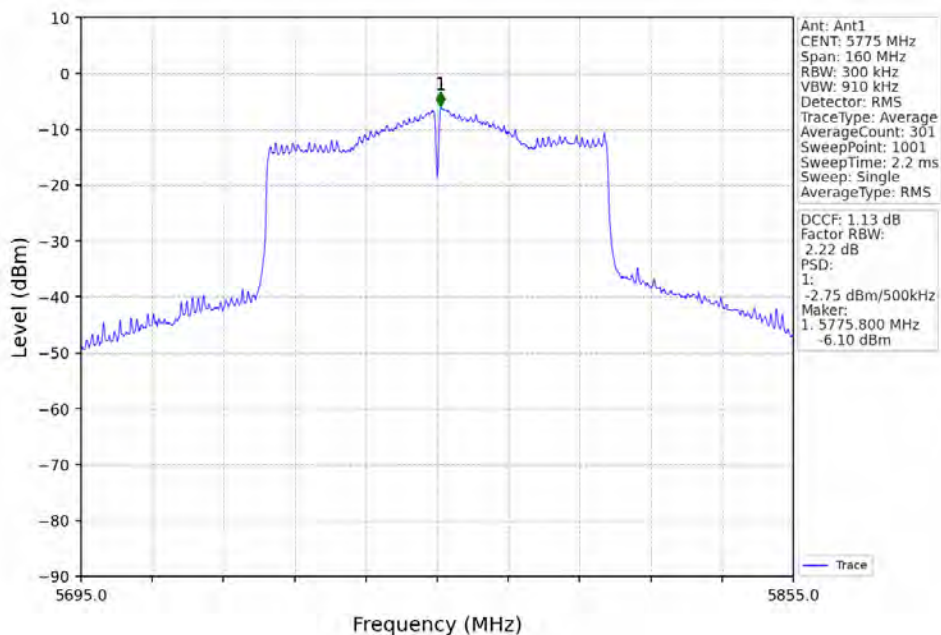
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



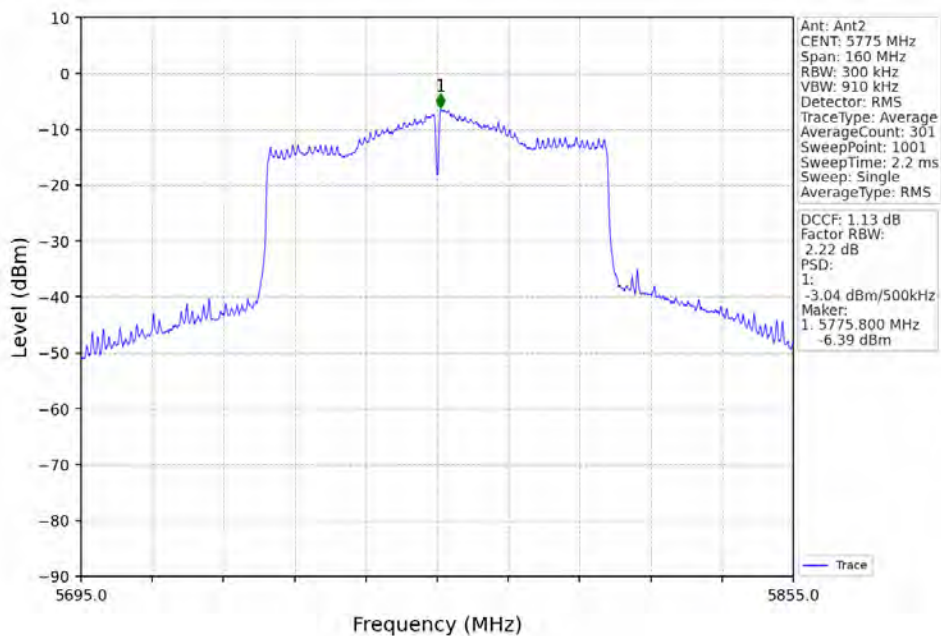
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



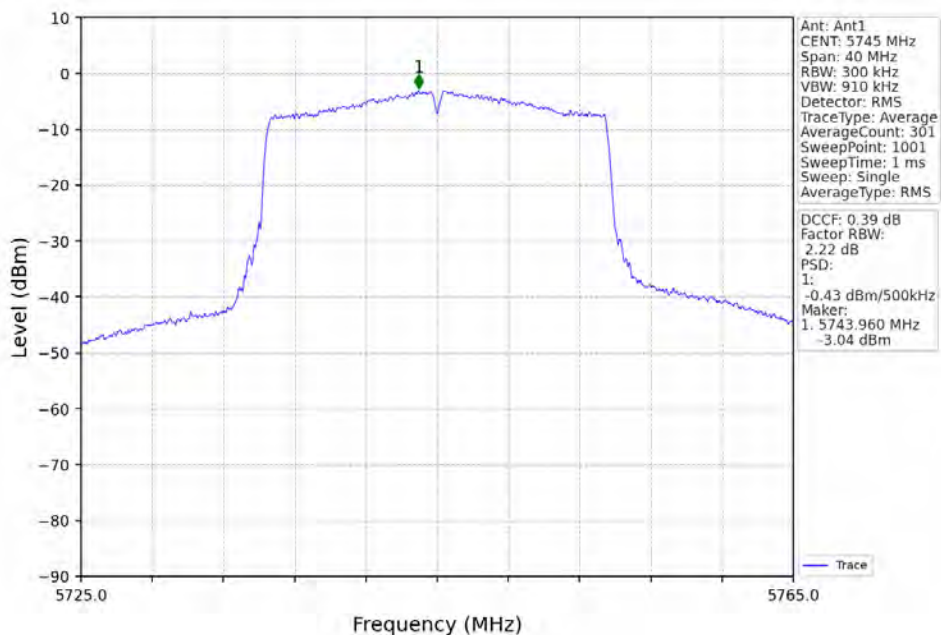
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



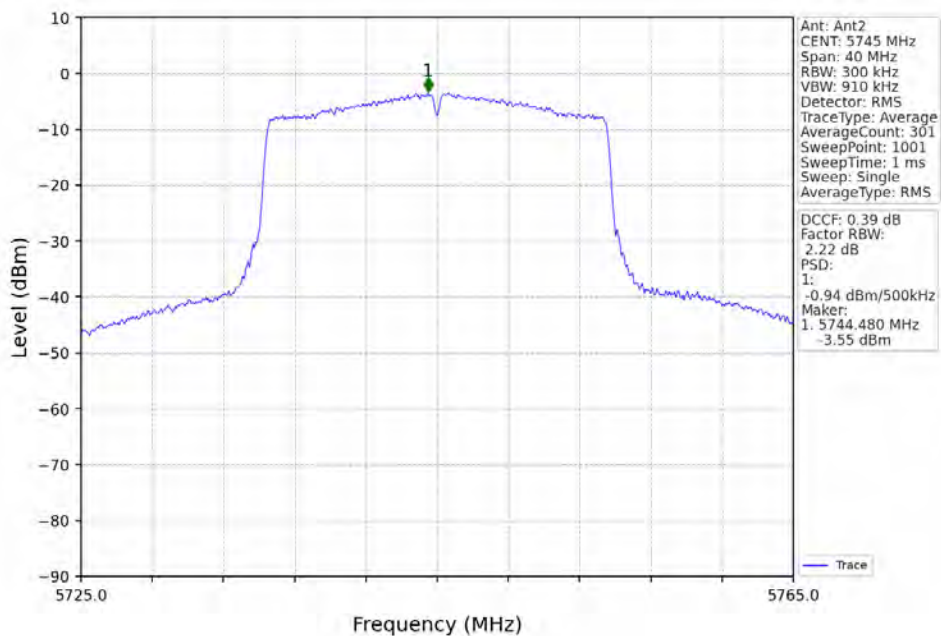
802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV

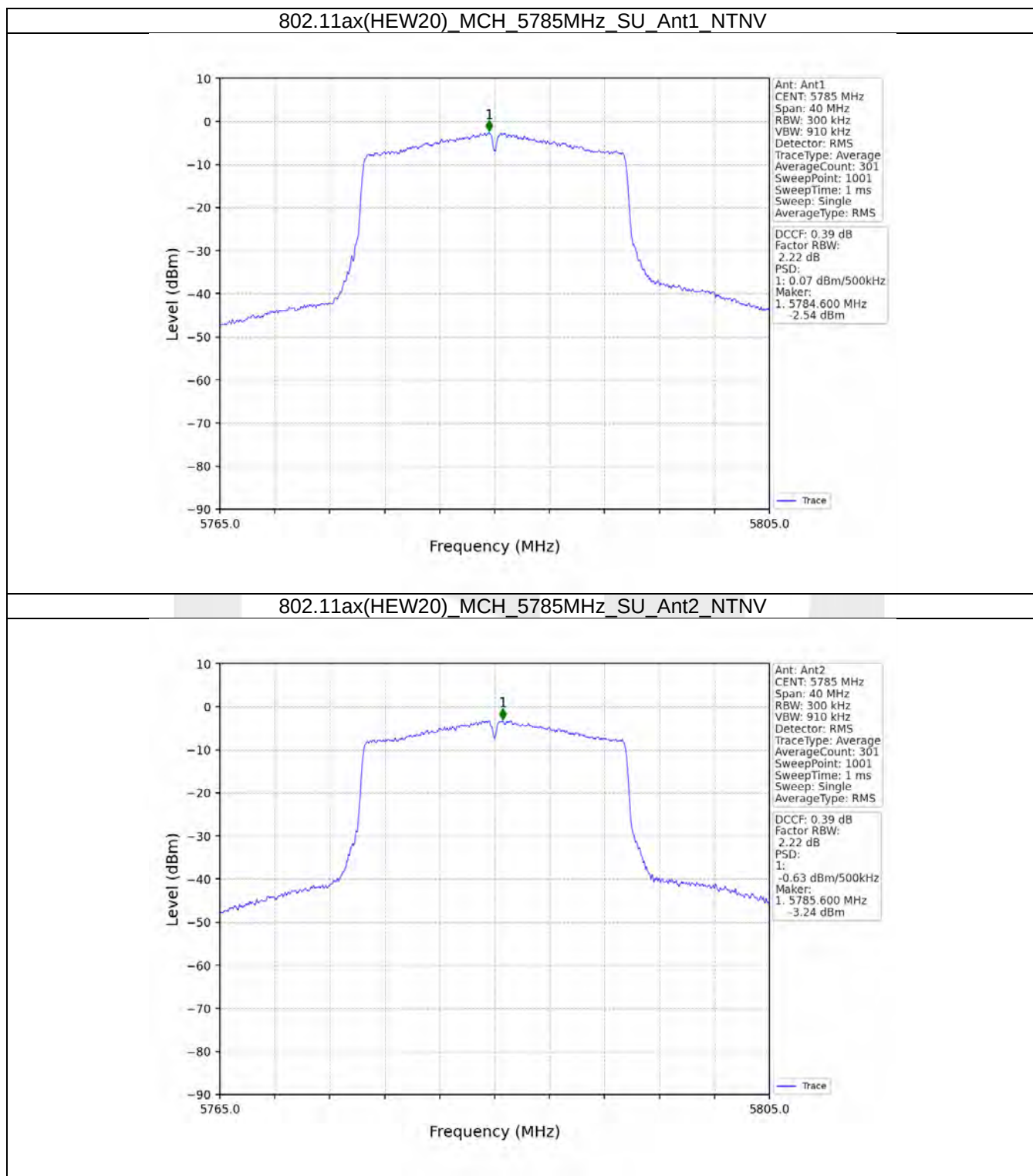


802.11ax(HEW20)_LCH_5745MHz_SU_Ant1_NTNV

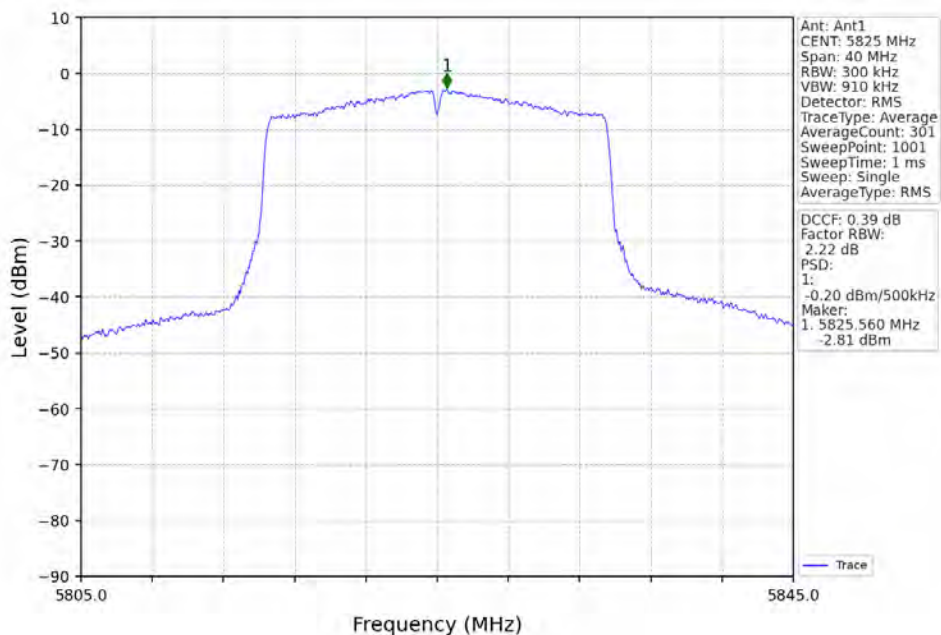


802.11ax(HEW20)_LCH_5745MHz_SU_Ant2_NTNV

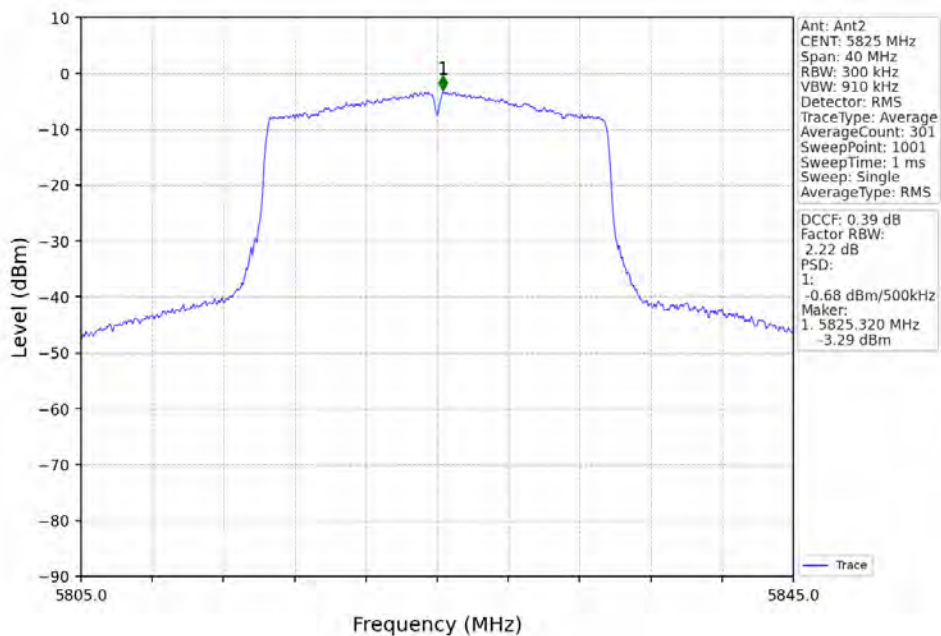




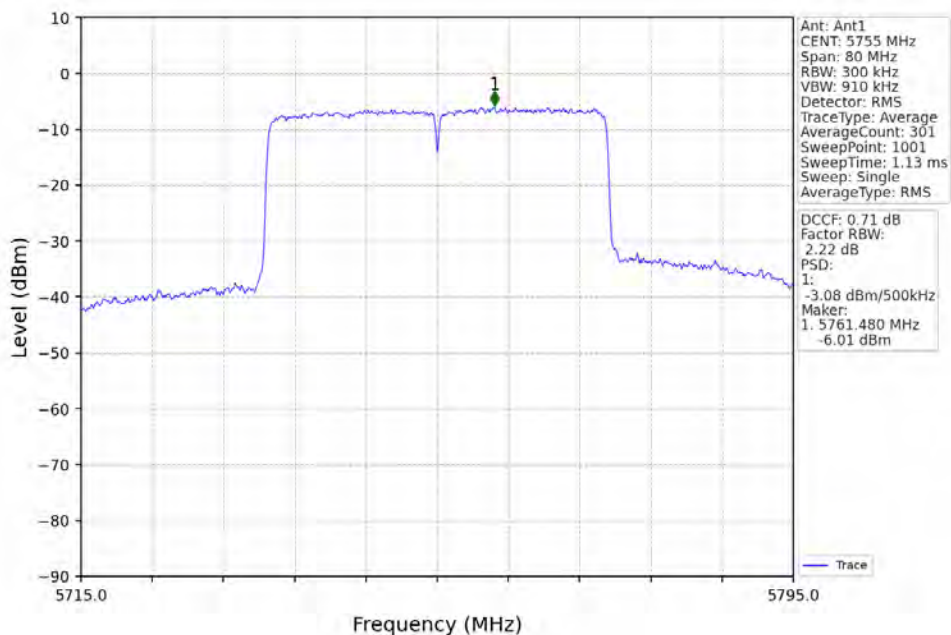
802.11ax(HEW20)_HCH_5825MHz_SU_Ant1_NTNV



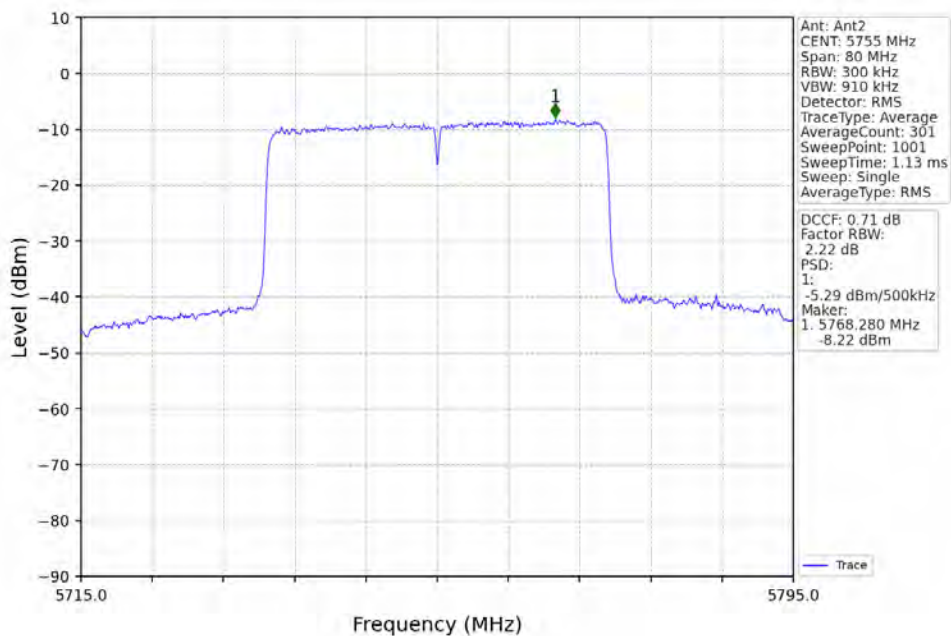
802.11ax(HEW20)_HCH_5825MHz_SU_Ant2_NTNV

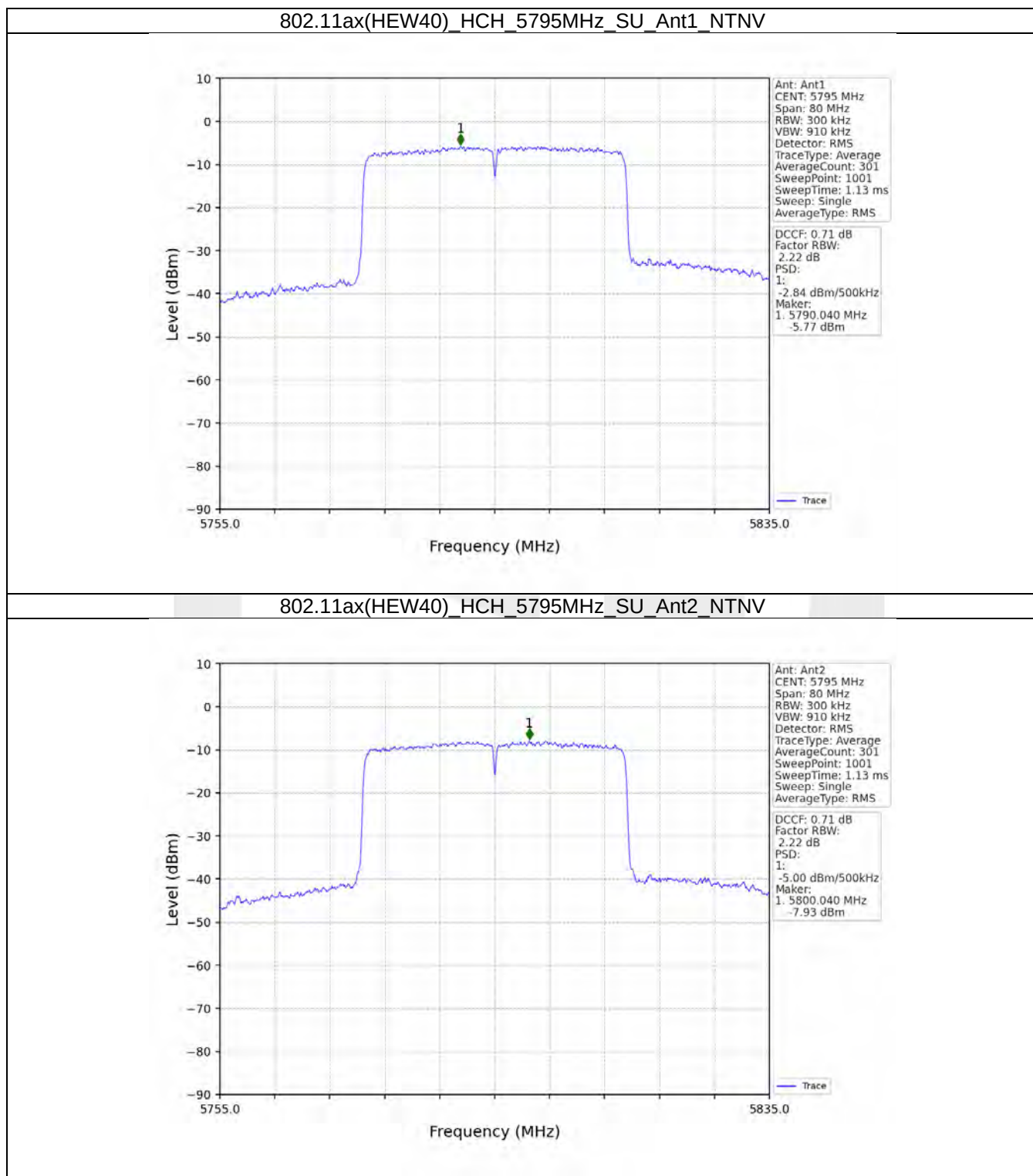


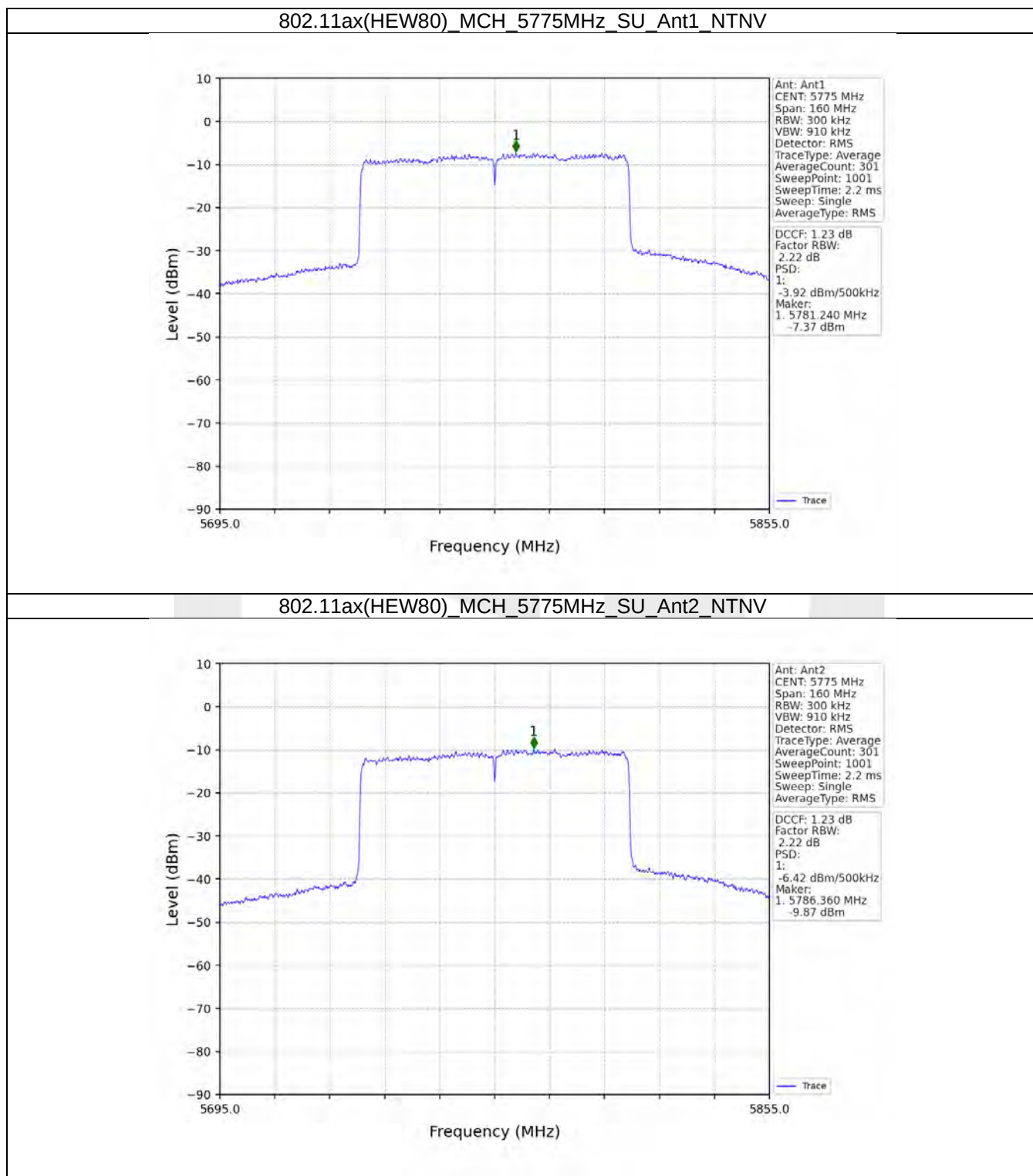
802.11ax(HEW40)_LCH_5755MHz_SU_Ant1_NTNV



802.11ax(HEW40)_LCH_5755MHz_SU_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
			-10	120	5179.960	5150 to 5250	Pass
			0	120	5179.960	5150 to 5250	Pass
			10	120	5179.960	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
			40	120	5179.960	5150 to 5250	Pass
			50	120	5179.960	5150 to 5250	Pass
		5200	20	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
			-10	120	5199.960	5150 to 5250	Pass
			0	120	5199.960	5150 to 5250	Pass
			10	120	5199.960	5150 to 5250	Pass
			30	120	5199.960	5150 to 5250	Pass
			40	120	5199.960	5150 to 5250	Pass
			50	120	5199.960	5150 to 5250	Pass
		5240	20	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
			-10	120	5239.960	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5239.960	5150 to 5250	Pass
			30	120	5239.960	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5239.960	5150 to 5250	Pass
		5745	20	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
			-10	120	5744.956	5725 to 5850	Pass
			0	120	5744.956	5725 to 5850	Pass
			10	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	Pass
				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	Pass
				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	Pass
				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	Pass
				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	Pass
				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 -----