

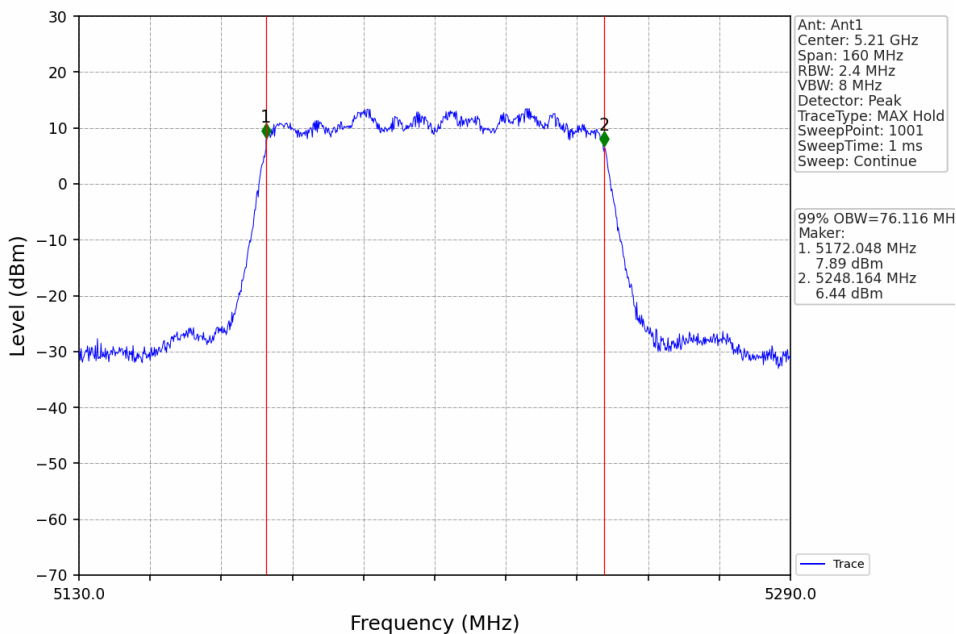
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

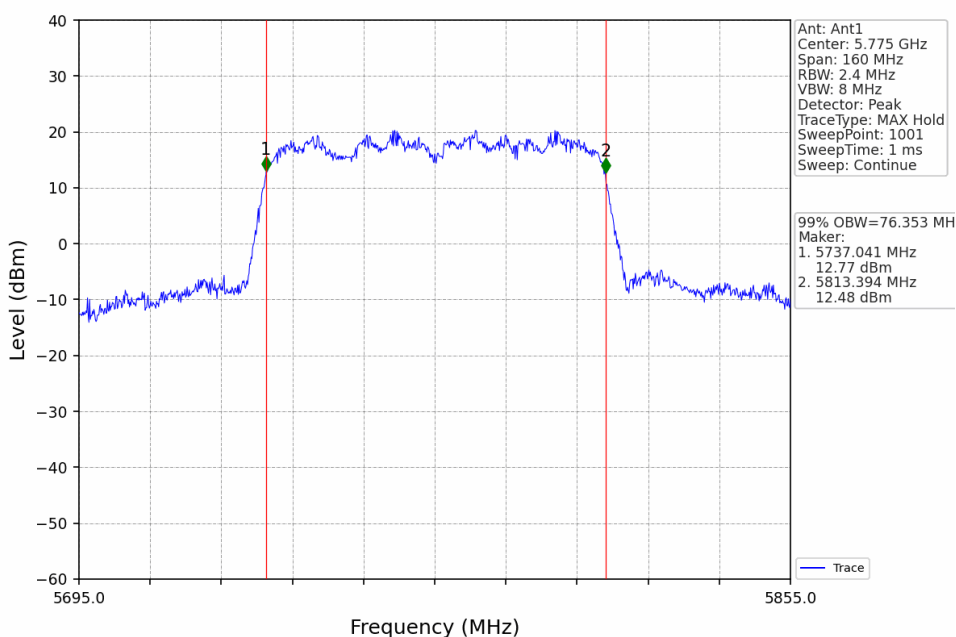
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.393	≥ 0.5	Pass
		5785	1	16.383	≥ 0.5	Pass
		5825	1	16.374	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.622	≥ 0.5	Pass
		5785	1	17.605	≥ 0.5	Pass
		5825	1	17.605	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.144	≥ 0.5	Pass
		5795	1	35.200	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.643	≥ 0.5	Pass
		5785	1	17.602	≥ 0.5	Pass
		5825	1	17.610	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.190	≥ 0.5	Pass
		5795	1	35.145	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.231	≥ 0.5	Pass



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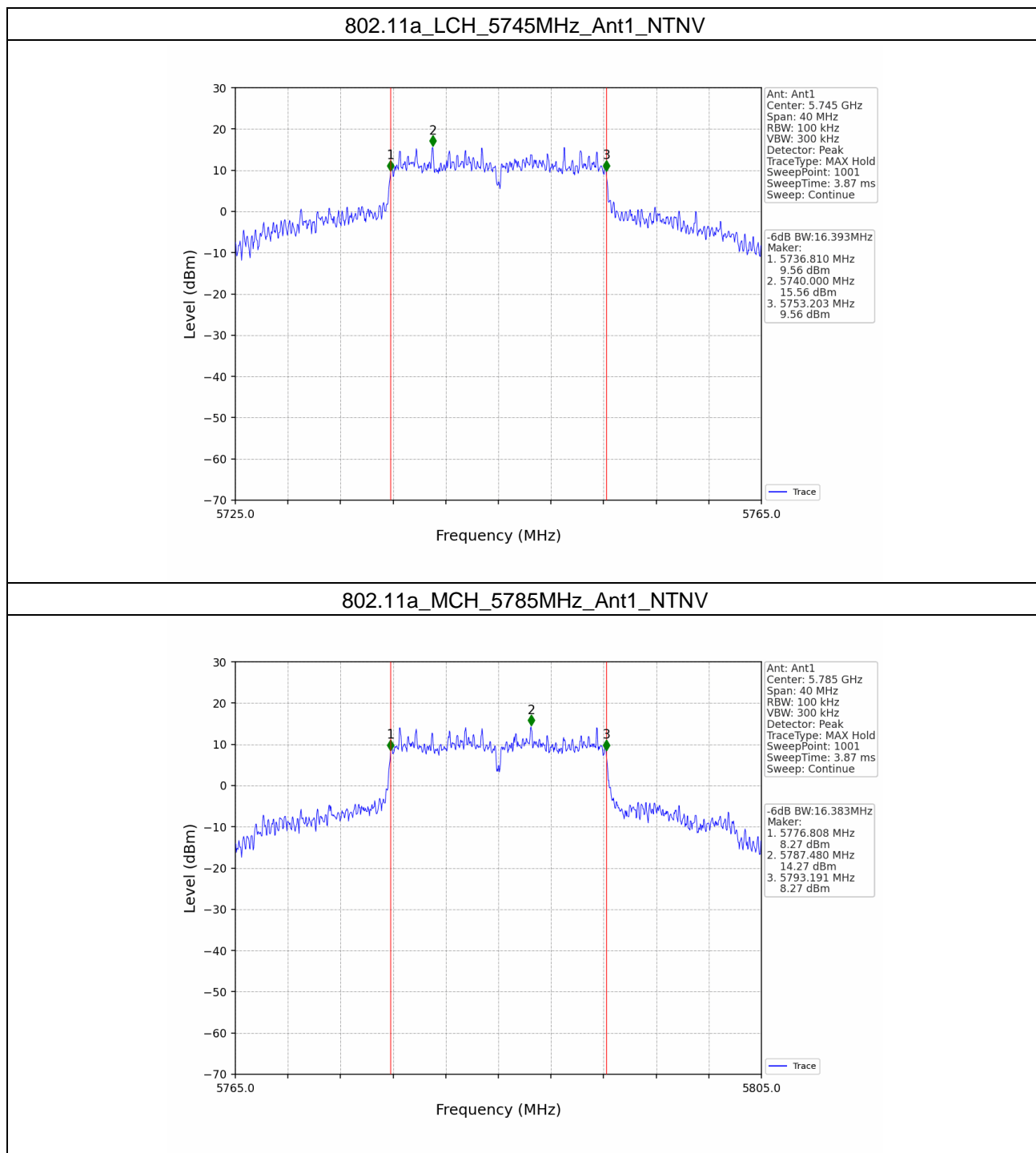
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2.2.2 Test Graph



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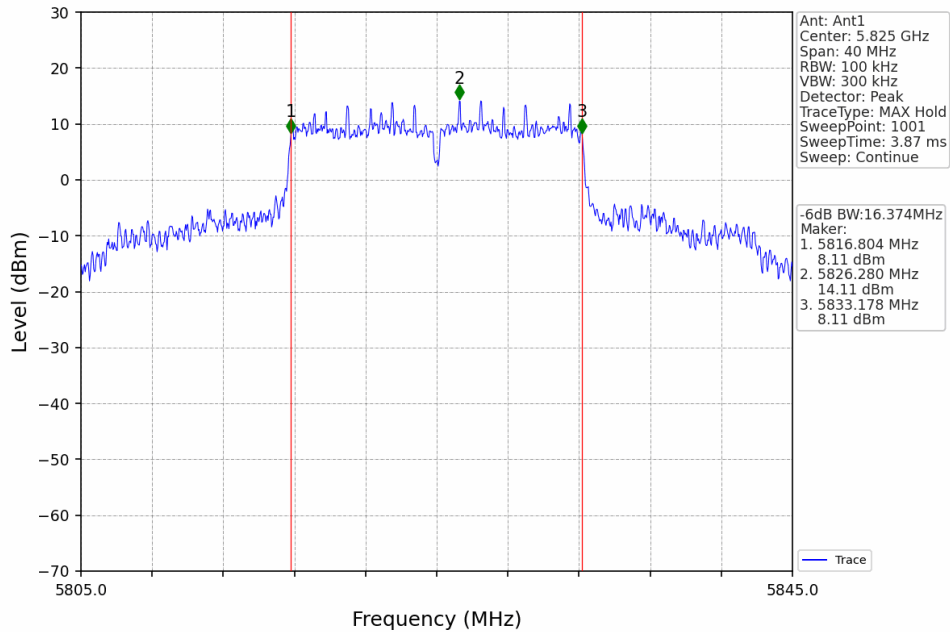
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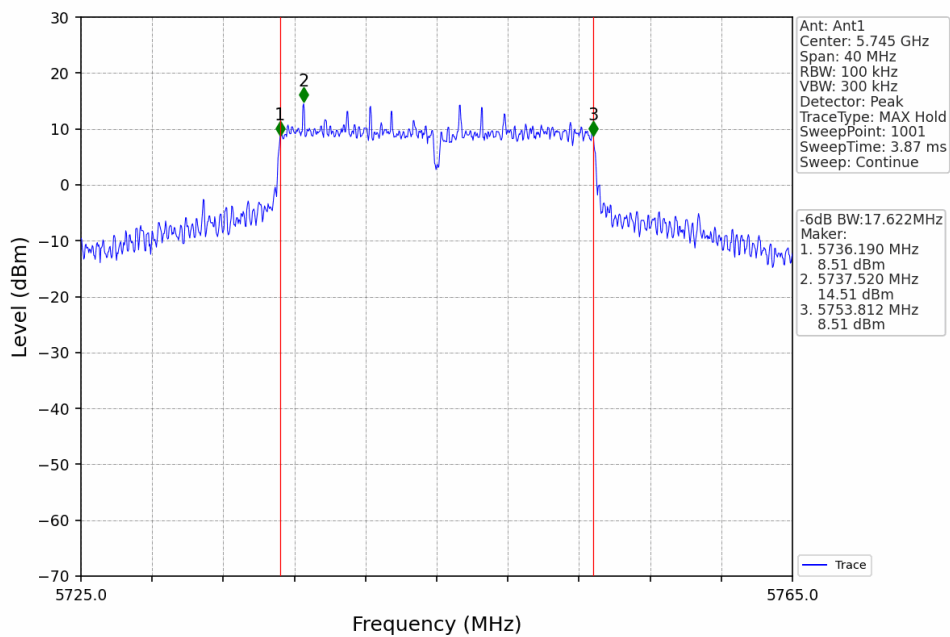
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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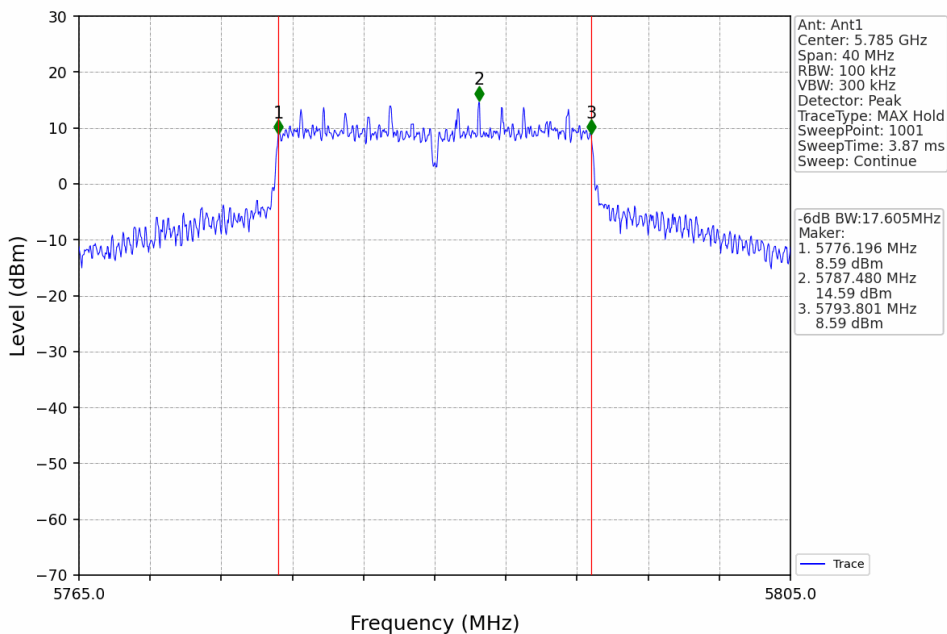
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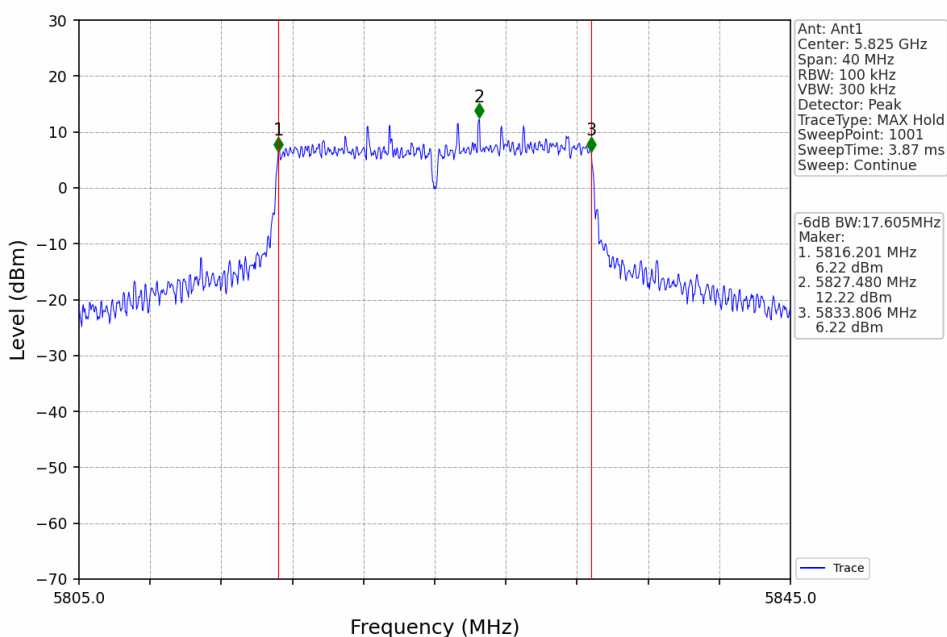
Report No.: FYCR220700028603

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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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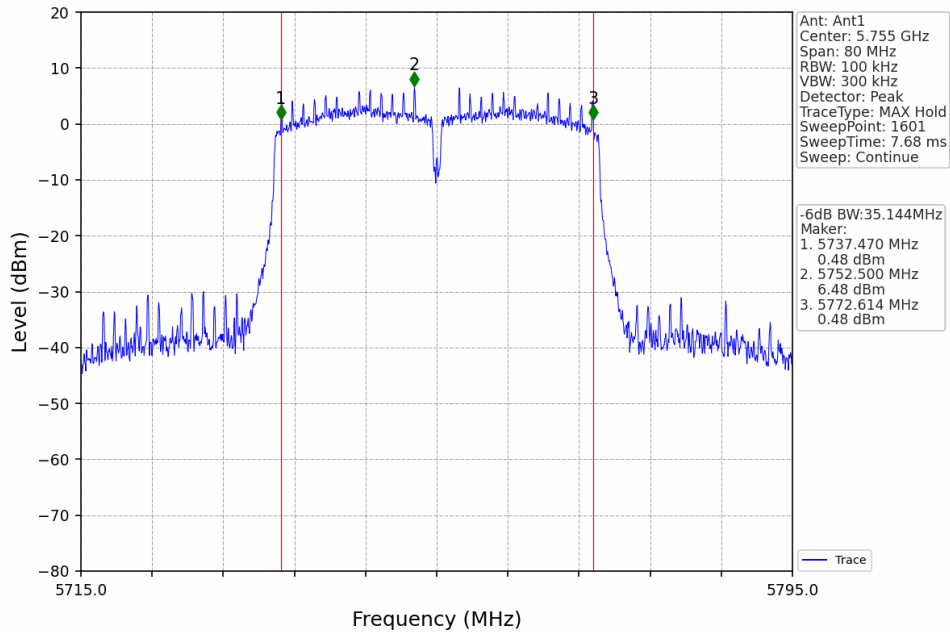
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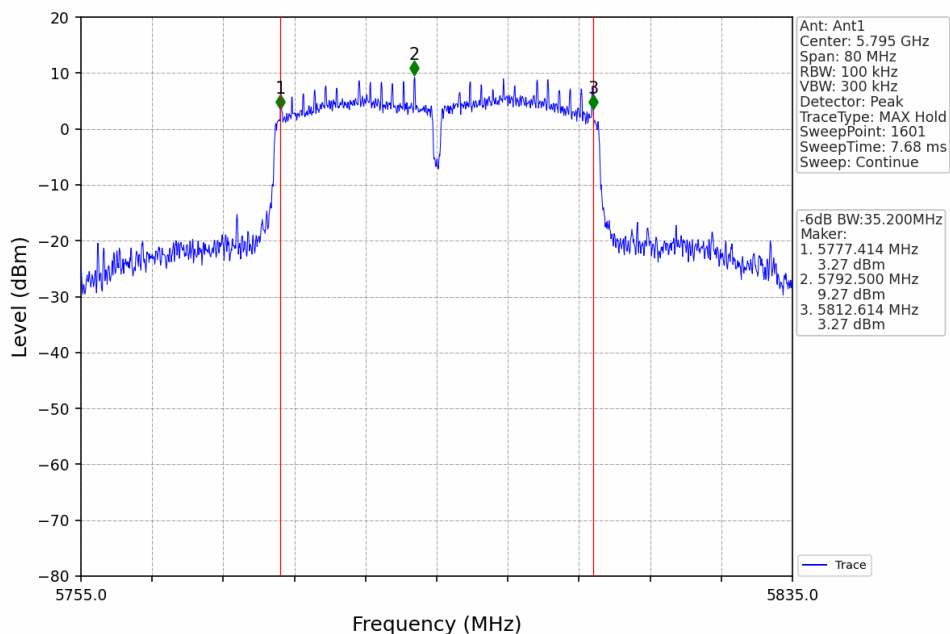
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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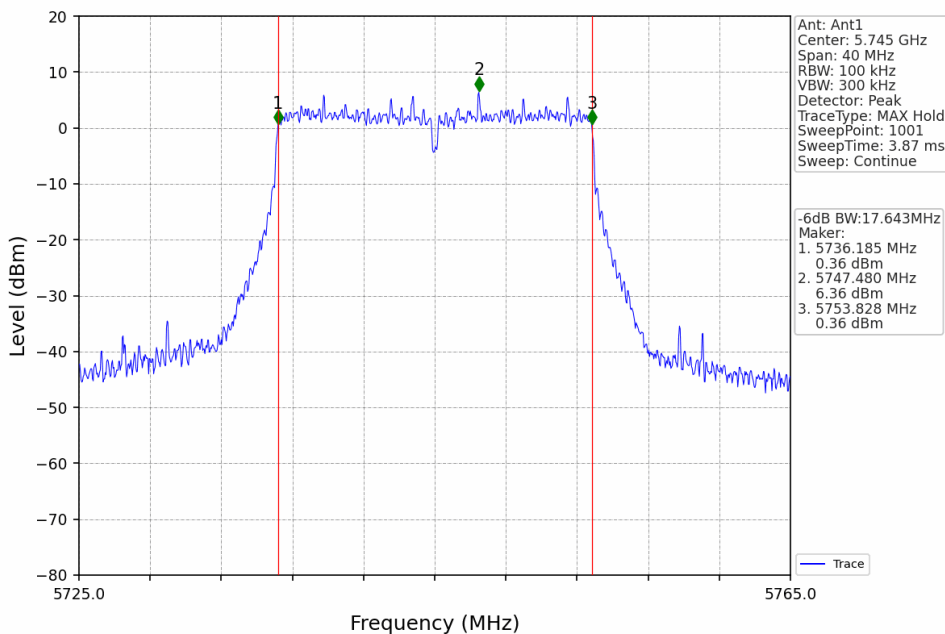
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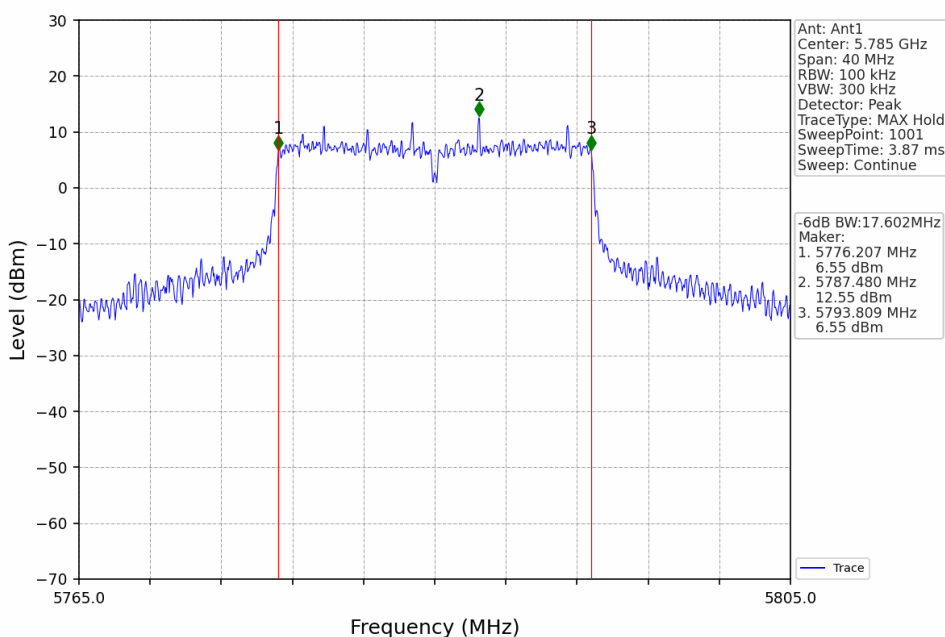
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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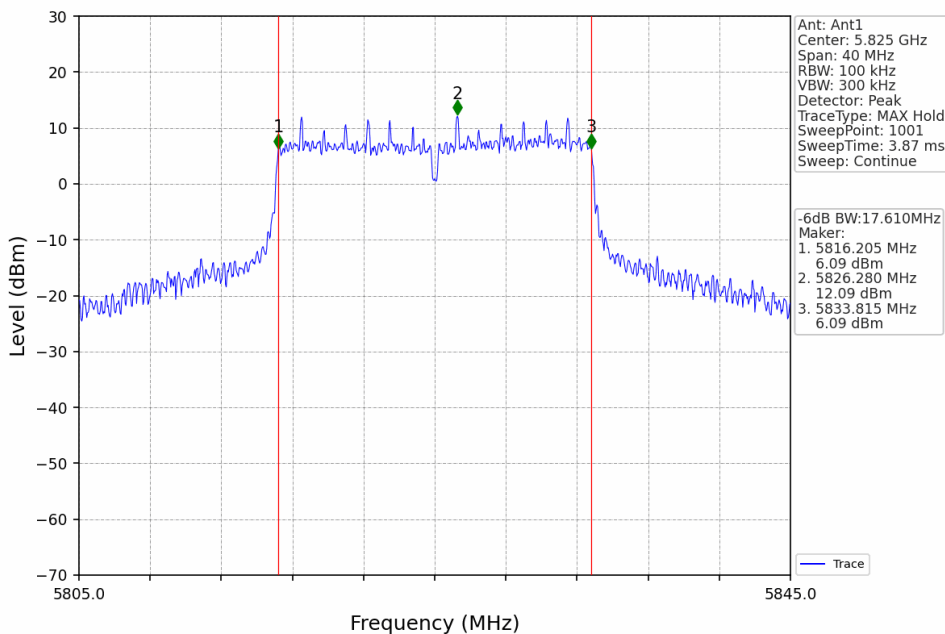
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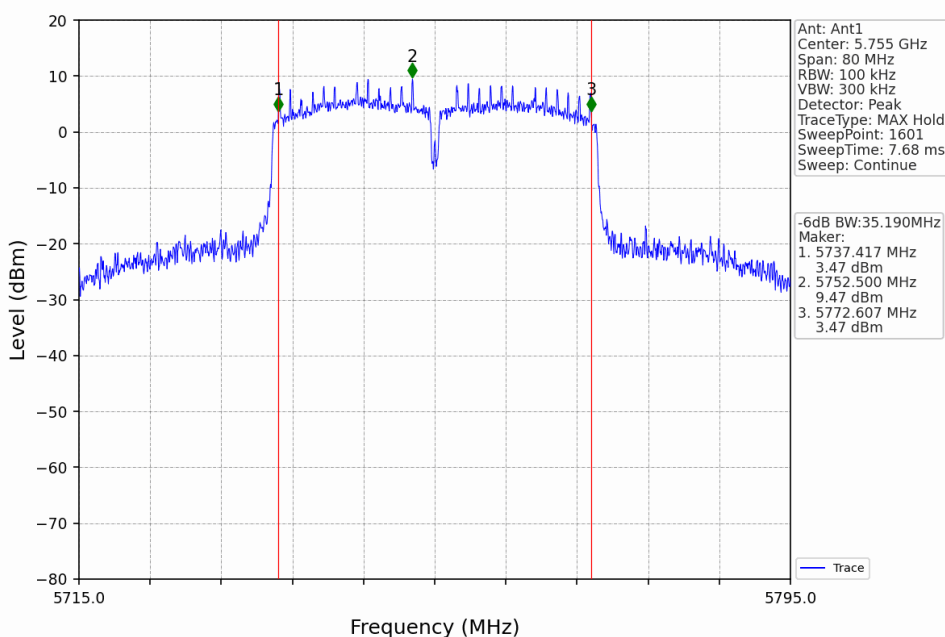
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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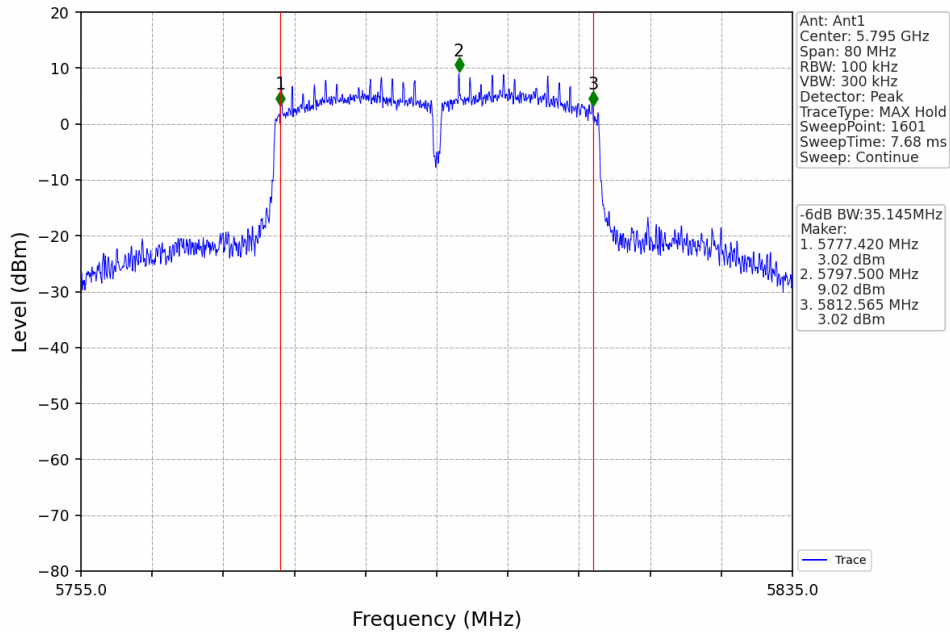
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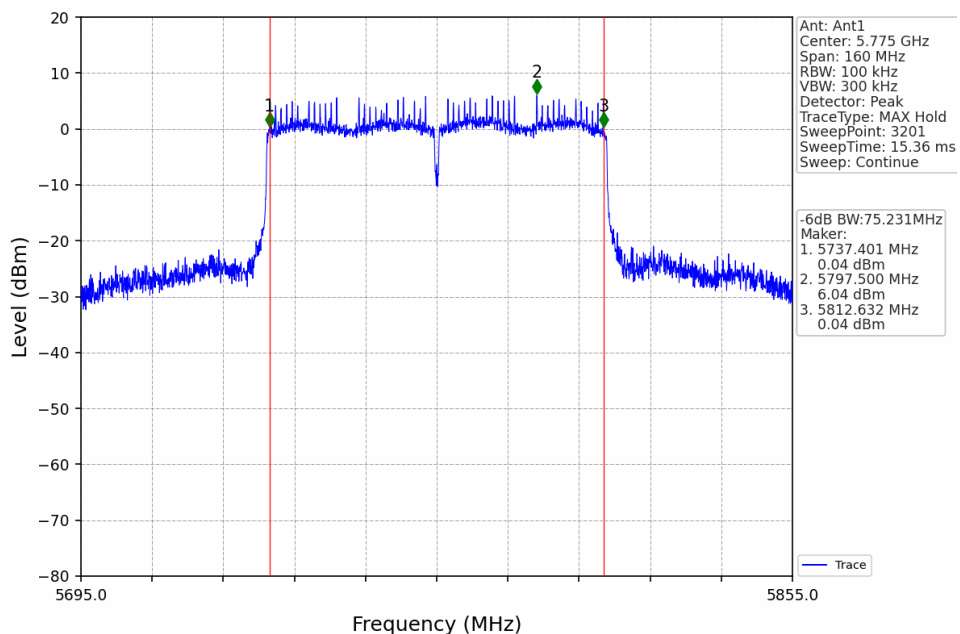
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

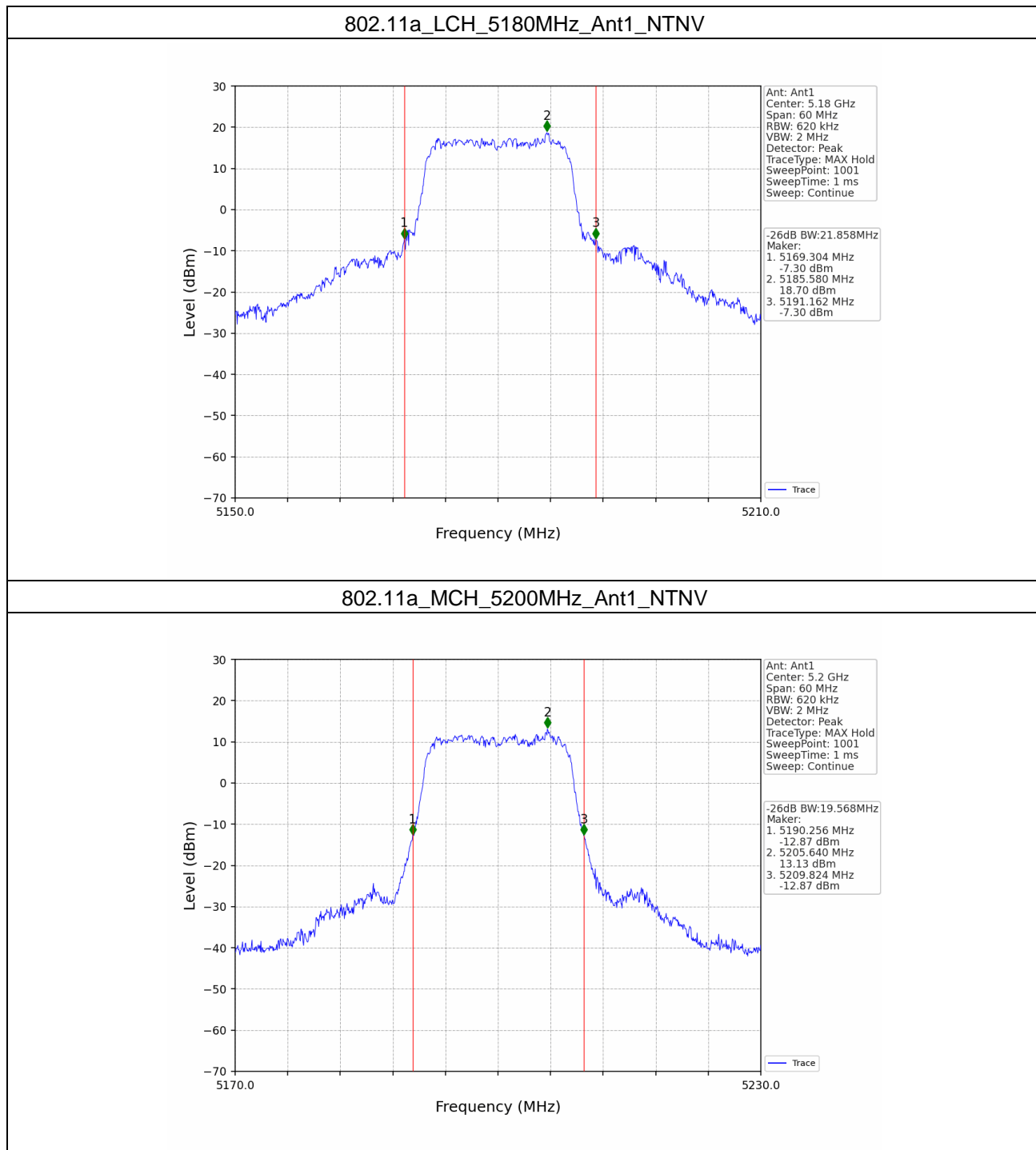
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	21.858	Pass
		5200	1	19.568	Pass
		5240	1	19.535	Pass
802.11n (HT20)	MIMO	5180	1	20.468	Pass
		5200	1	20.340	Pass
		5240	1	20.407	Pass
802.11n (HT40)	MIMO	5190	1	40.603	Pass
		5230	1	40.563	Pass
802.11ac (VHT20)	MIMO	5180	1	20.429	Pass
		5200	1	20.454	Pass
		5240	1	20.512	Pass
802.11ac (VHT40)	MIMO	5190	1	40.603	Pass
		5230	1	40.460	Pass
802.11ac (VHT80)	MIMO	5210	1	84.545	Pass



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2.3.2 Test Graph



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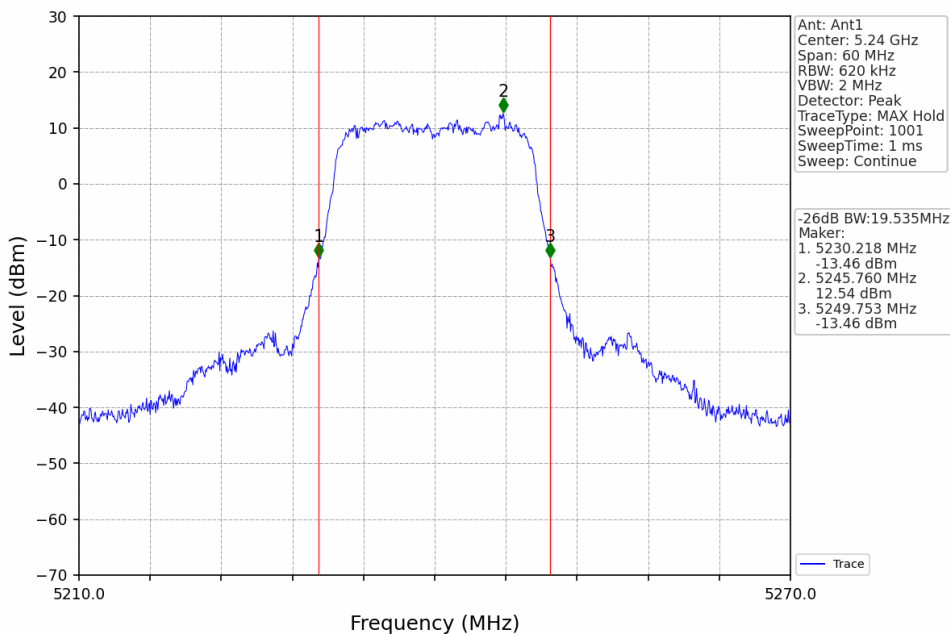
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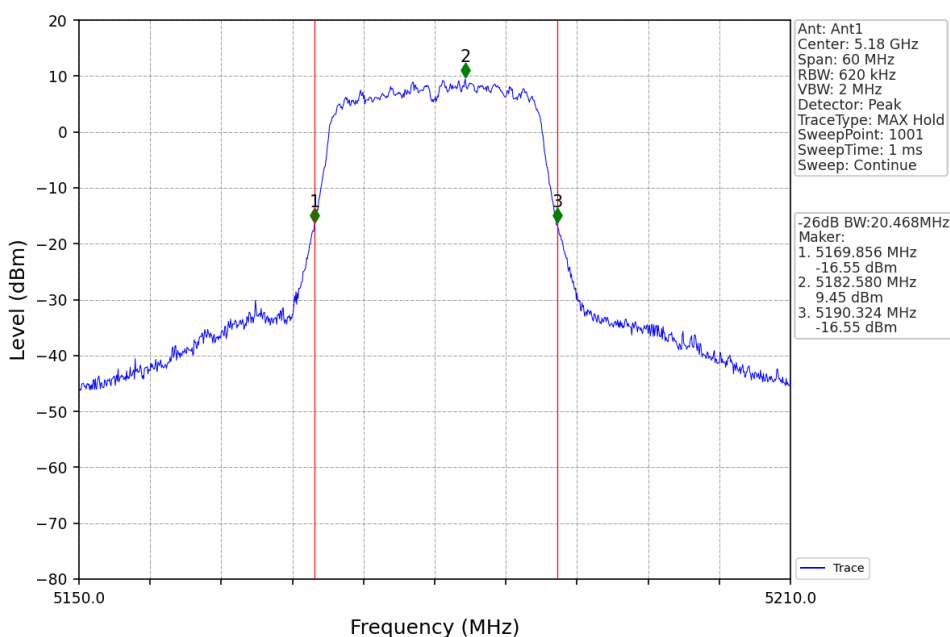
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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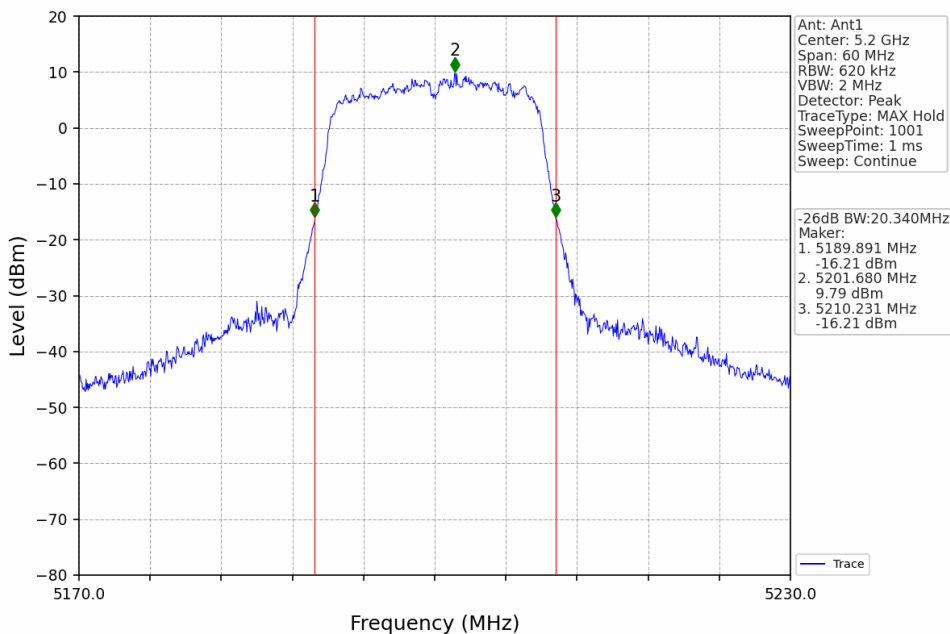
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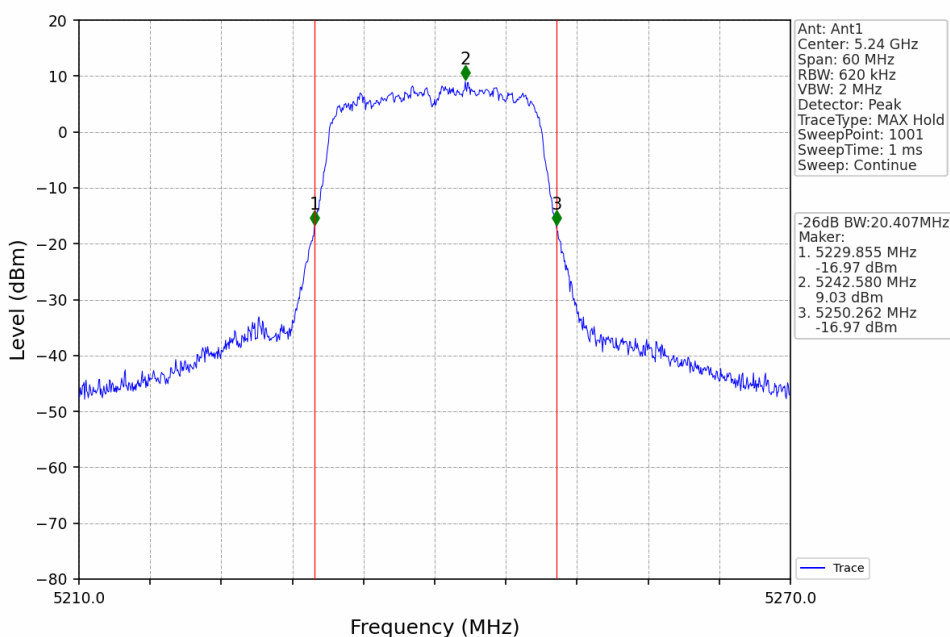
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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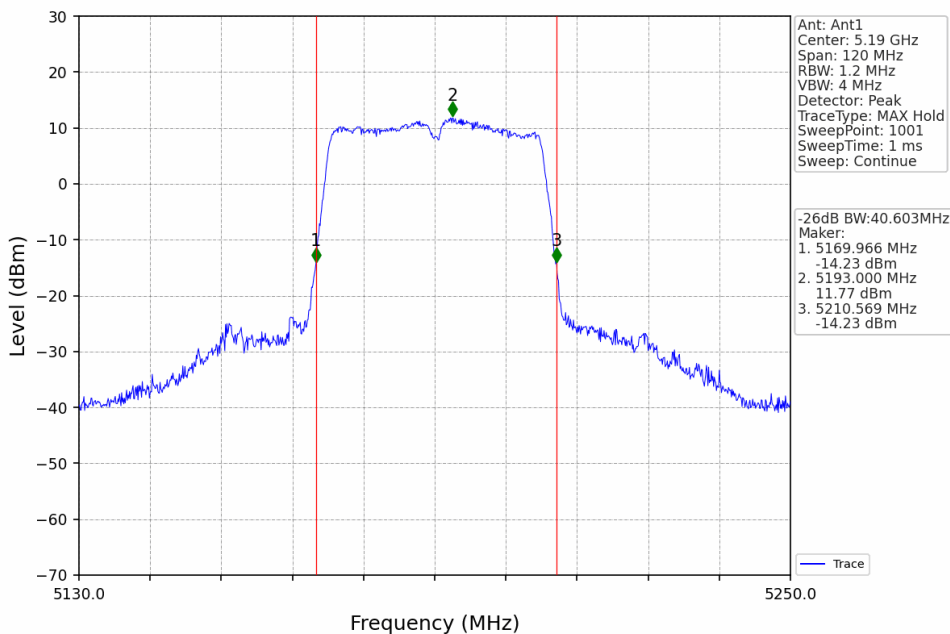
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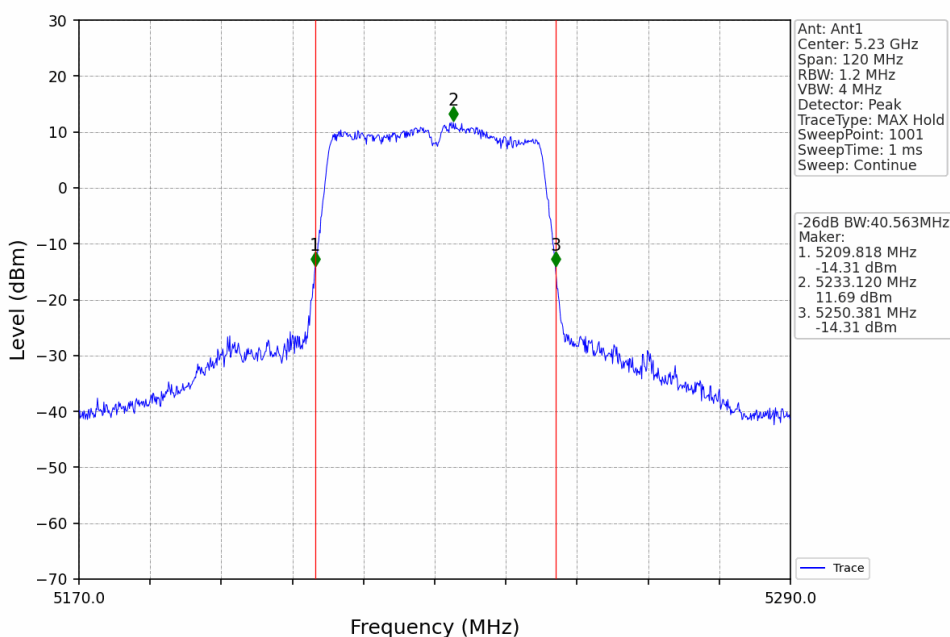
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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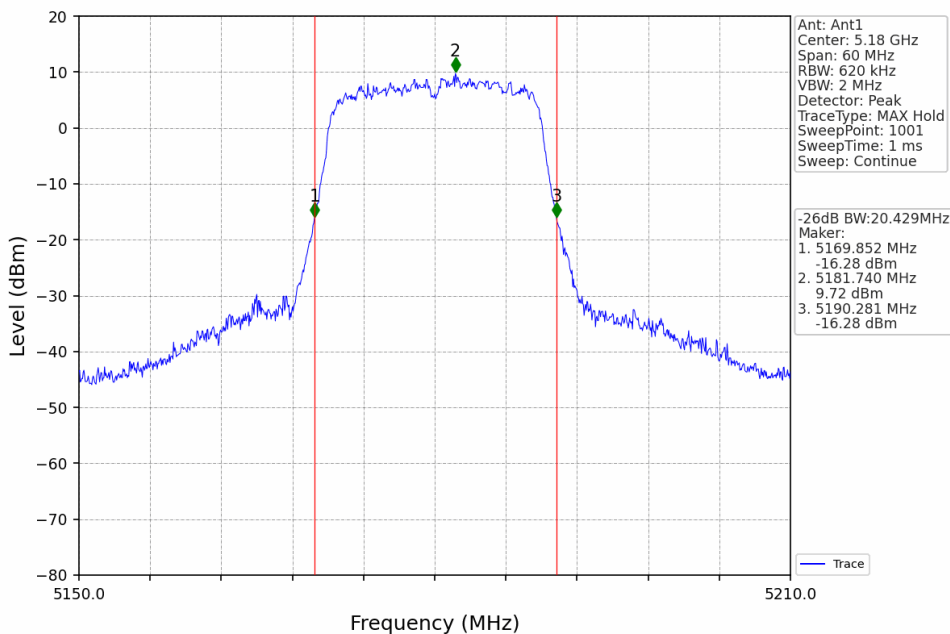
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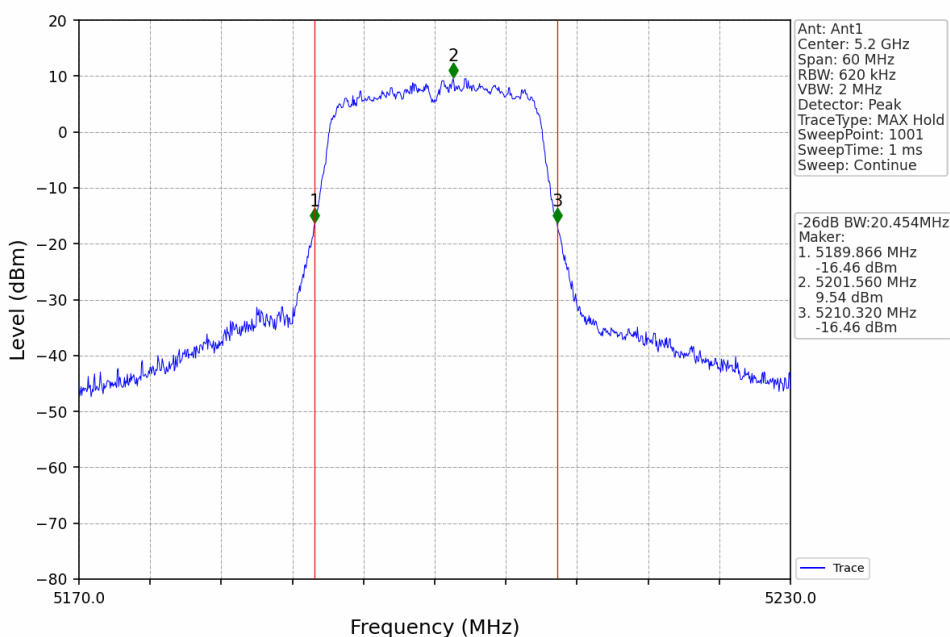
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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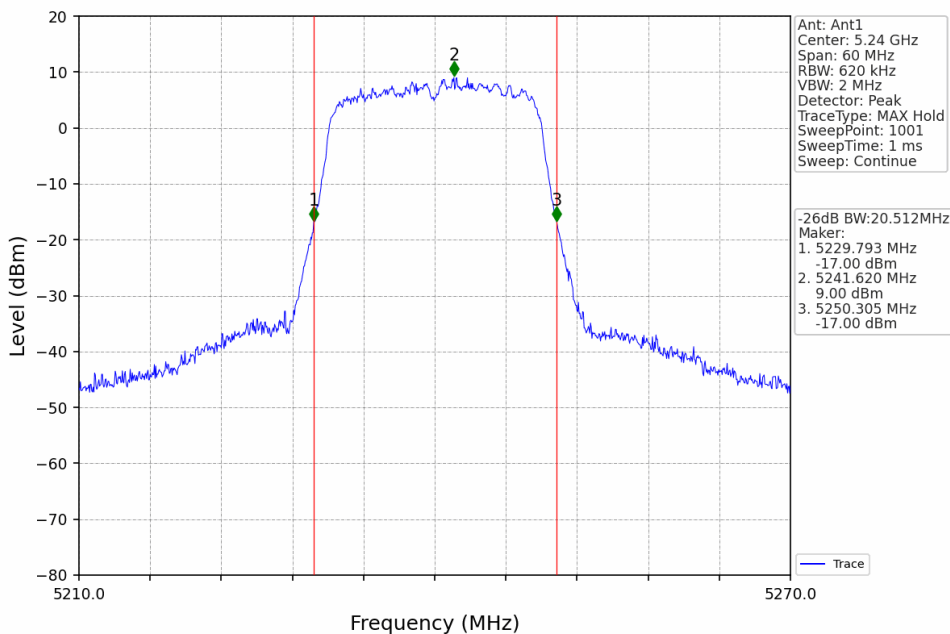
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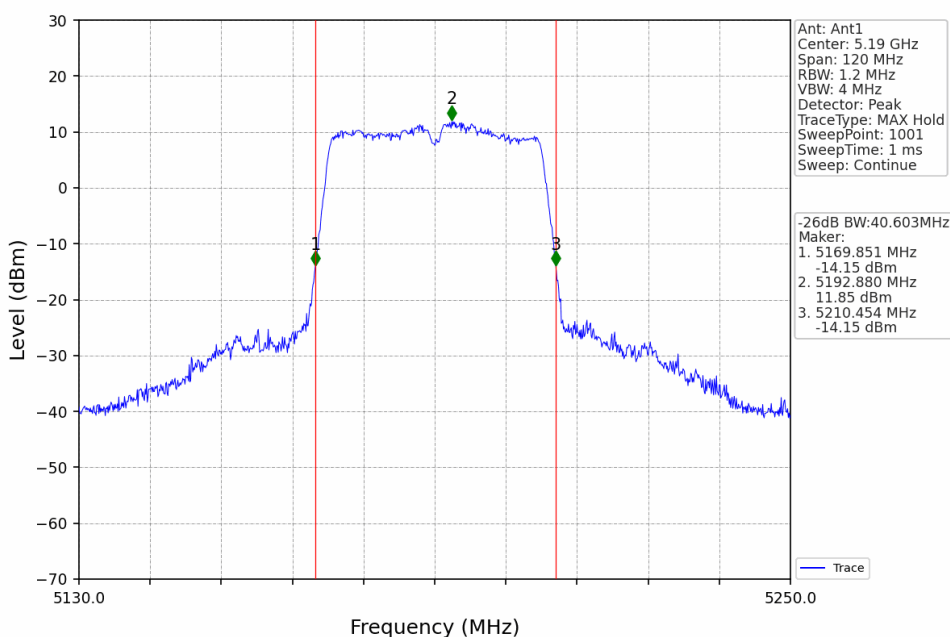
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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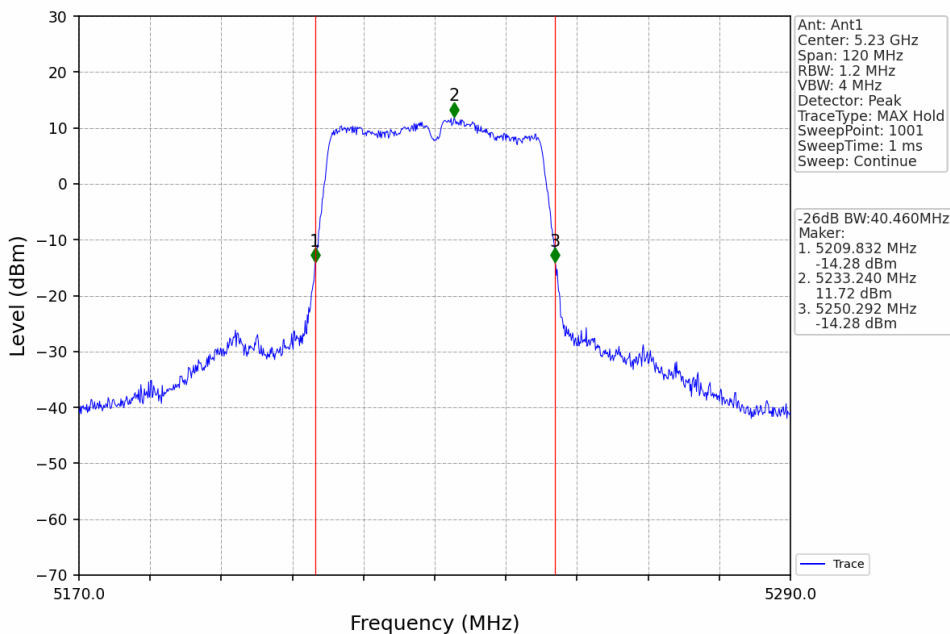
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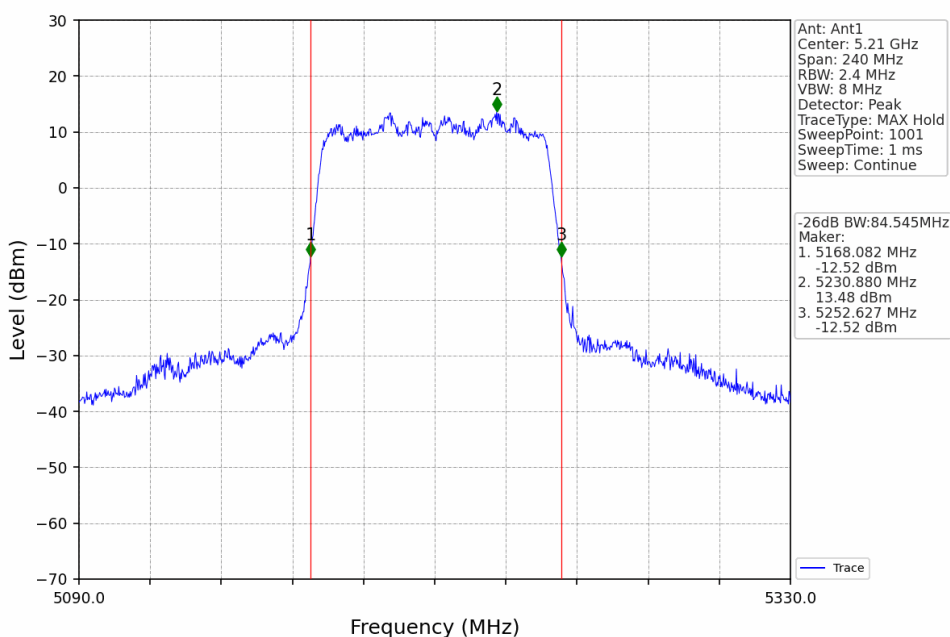
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	17.52	16.25	/	<=30	Pass
		5200	17.47	16.12	/	<=30	Pass
		5240	17.22	16.01	/	<=30	Pass
		5745	25.79	24.66	/	<=30	Pass
		5785	24.45	24.15	/	<=30	Pass
		5825	24.31	23.81	/	<=30	Pass
802.11n (HT20)	MIMO	5180	16.99	16.72	19.87	<=28.88	Pass
		5200	17.00	16.63	19.83	<=28.88	Pass
		5240	16.51	16.30	19.42	<=28.88	Pass
		5745	22.82	21.66	25.29	<=28.88	Pass
		5785	22.53	22.13	25.34	<=28.88	Pass
		5825	22.48	21.97	25.24	<=28.88	Pass
802.11n (HT40)	MIMO	5190	18.73	18.44	21.60	<=28.88	Pass
		5230	18.61	18.59	21.61	<=28.88	Pass
		5755	22.53	21.45	25.03	<=28.88	Pass
		5795	22.63	22.07	25.37	<=28.88	Pass
802.11ac (VHT20)	MIMO	5180	16.78	16.51	19.66	<=28.88	Pass
		5200	16.81	16.49	19.66	<=28.88	Pass
		5240	16.47	16.17	19.33	<=28.88	Pass
		5745	22.89	21.67	25.33	<=28.88	Pass
		5785	22.43	22.13	25.29	<=28.88	Pass
		5825	22.47	21.95	25.23	<=28.88	Pass
802.11ac (VHT40)	MIMO	5190	18.79	18.48	21.65	<=28.88	Pass
		5230	18.59	18.52	21.57	<=28.88	Pass
		5755	22.50	21.43	25.01	<=28.88	Pass
		5795	22.62	22.07	25.36	<=28.88	Pass
802.11ac (VHT80)	MIMO	5210	18.79	18.50	21.66	<=28.88	Pass
		5775	22.61	21.77	25.22	<=28.88	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	6.76	5.45	/	<=17	Pass
		5200	7.01	5.38	/	<=17	Pass
		5240	6.66	5.39	/	<=17	Pass
802.11n (HT20)	MIMO	5180	6.12	5.77	8.91	<=15.88	Pass
		5200	6.13	5.74	8.85	<=15.88	Pass
		5240	5.76	5.61	8.45	<=15.88	Pass
802.11n (HT40)	MIMO	5190	5.27	4.75	7.95	<=15.88	Pass
		5230	5.13	5.06	8.08	<=15.88	Pass
802.11ac (VHT20)	MIMO	5180	6.02	5.58	8.68	<=15.88	Pass
		5200	6.03	5.75	8.74	<=15.88	Pass
		5240	5.77	5.45	8.38	<=15.88	Pass
802.11ac (VHT40)	MIMO	5190	5.27	4.82	7.90	<=15.88	Pass
		5230	5.13	5.06	7.92	<=15.88	Pass
802.11ac (VHT80)	MIMO	5210	2.00	1.62	4.71	<=15.88	Pass



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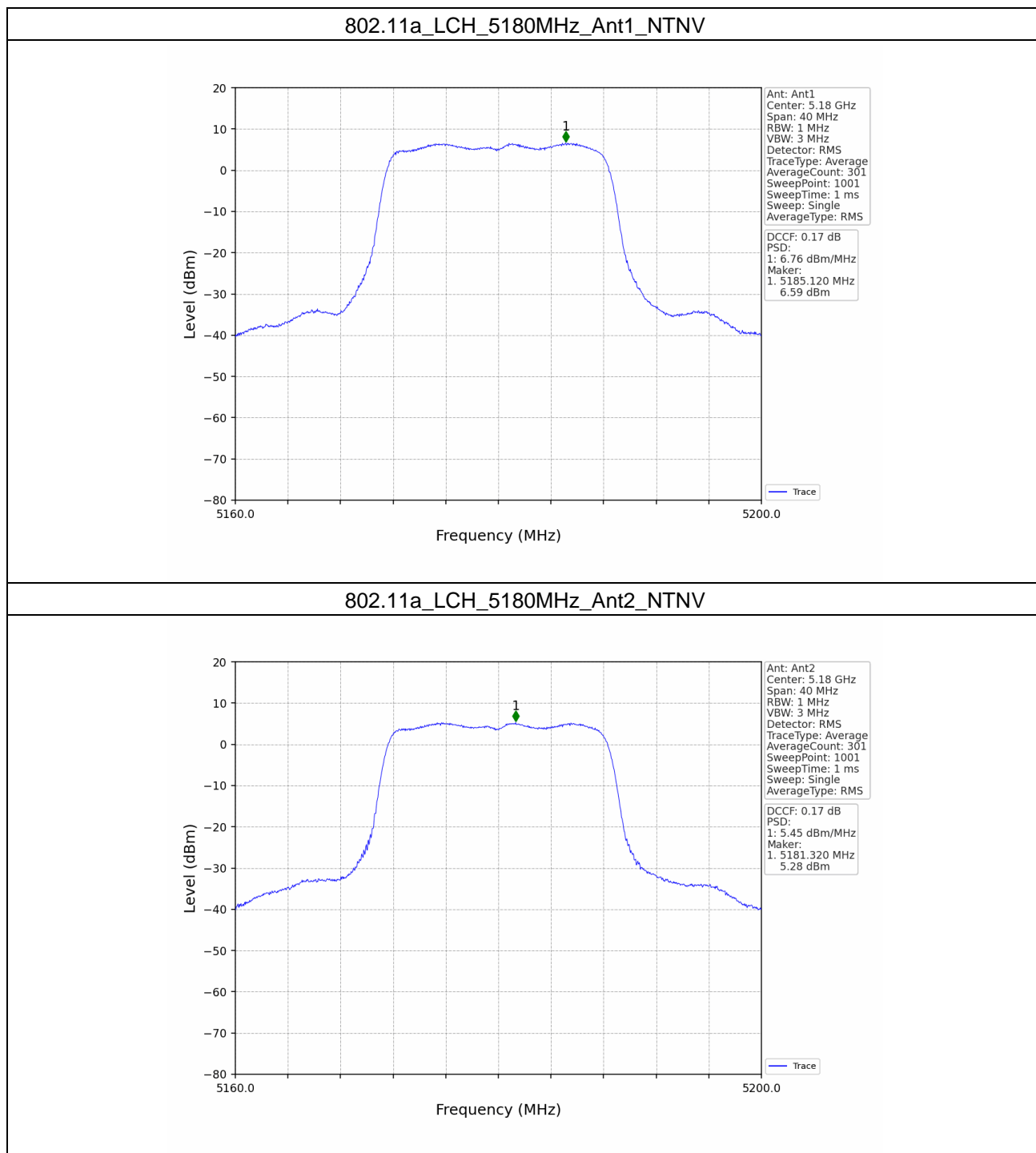
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4.1.2 Test Graph



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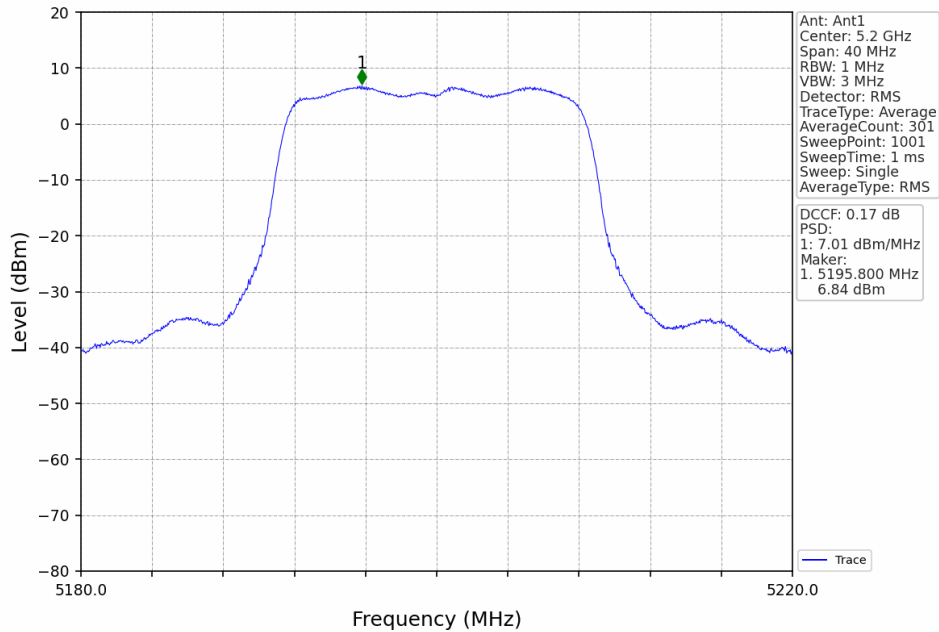
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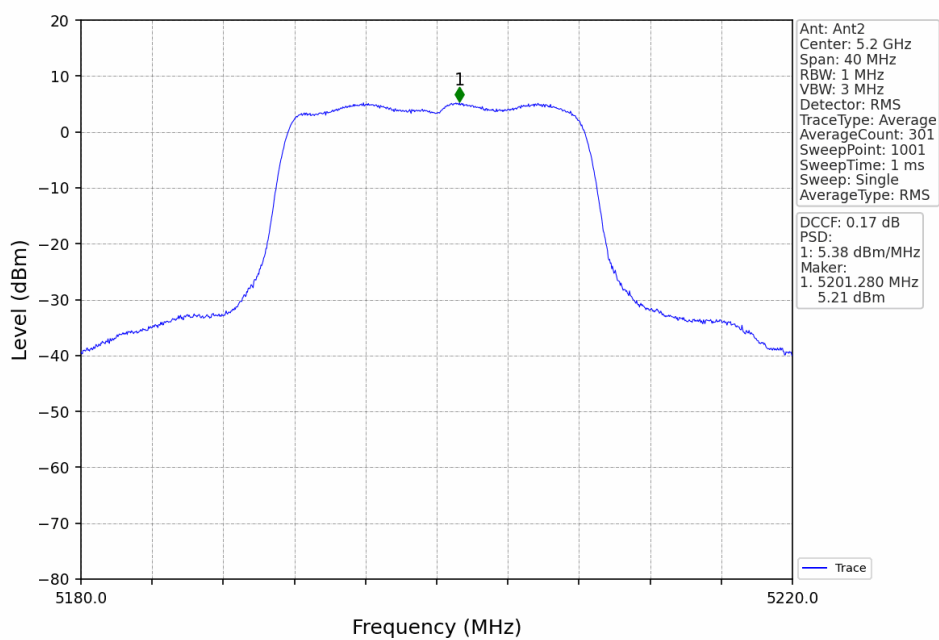
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802.11a_MCH_5200MHz_Ant2_NTNV



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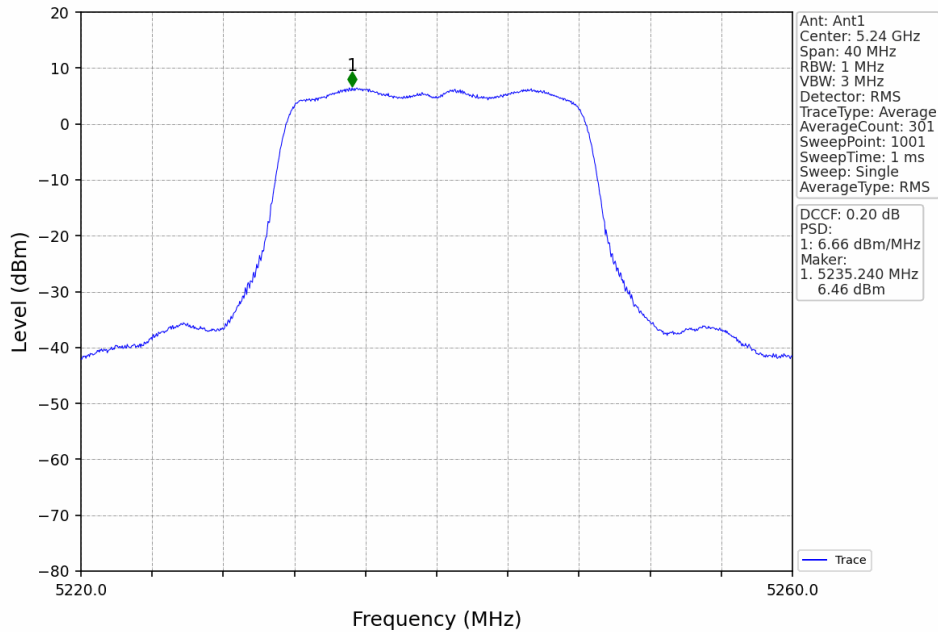
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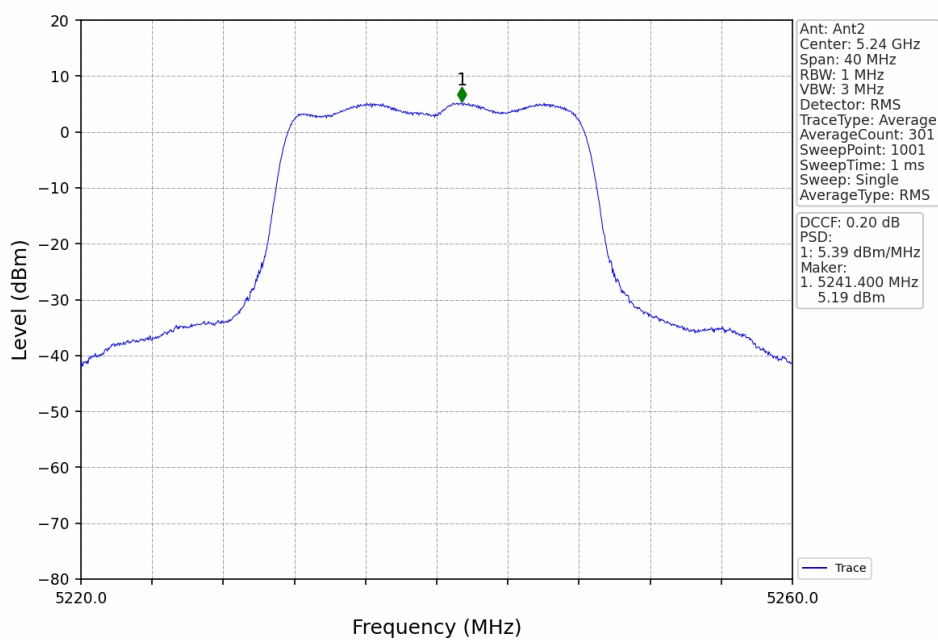
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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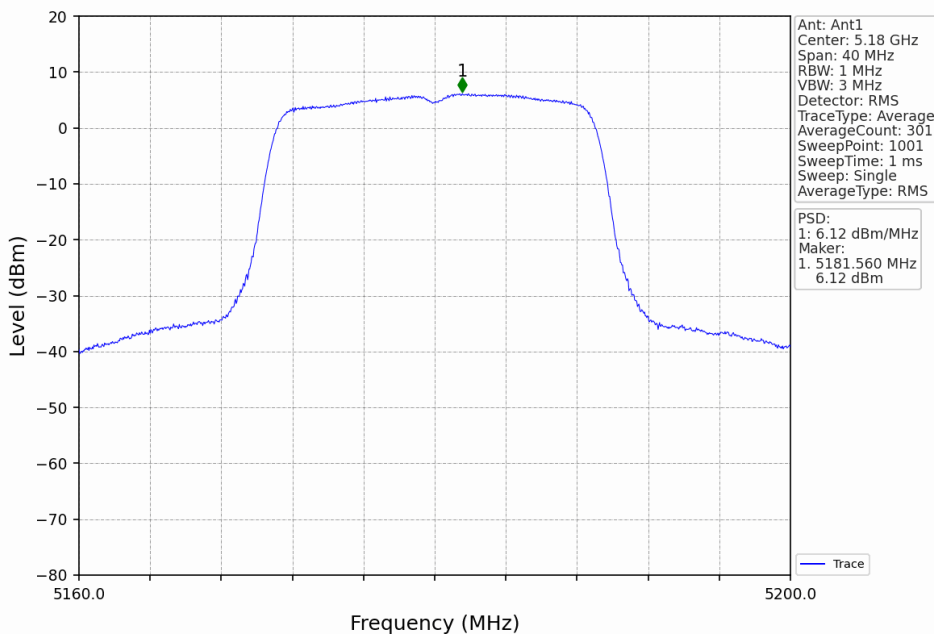
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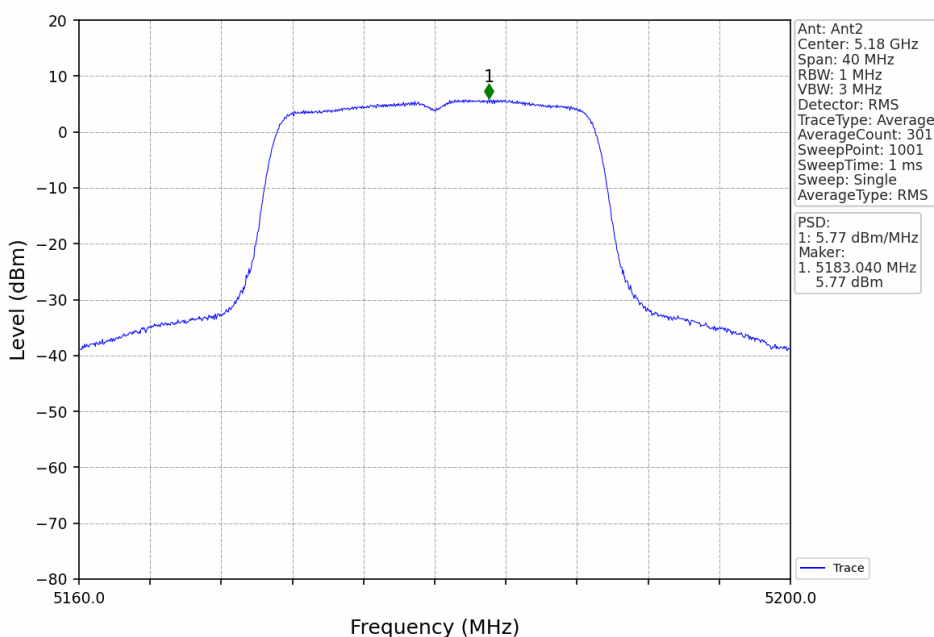
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



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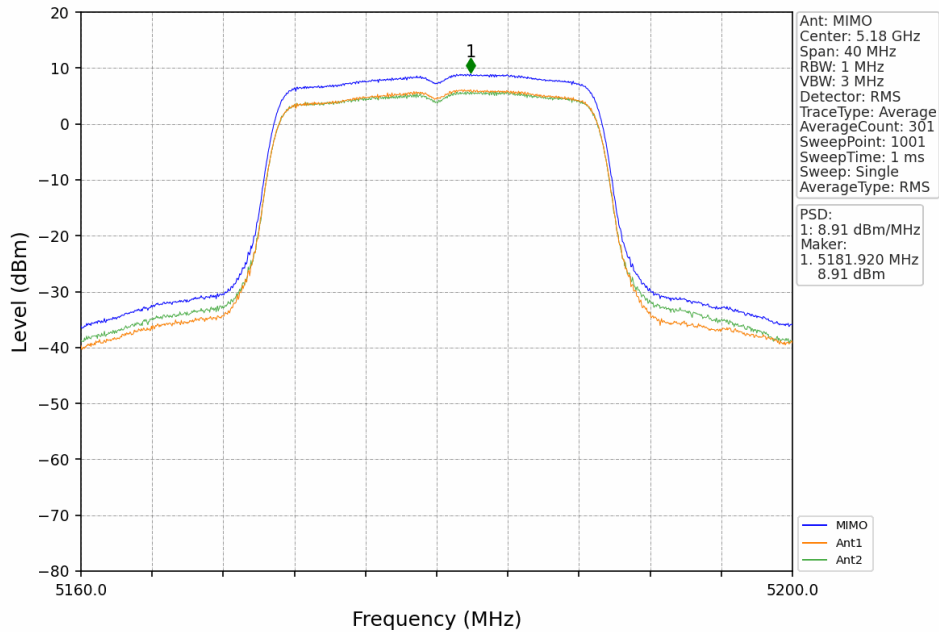
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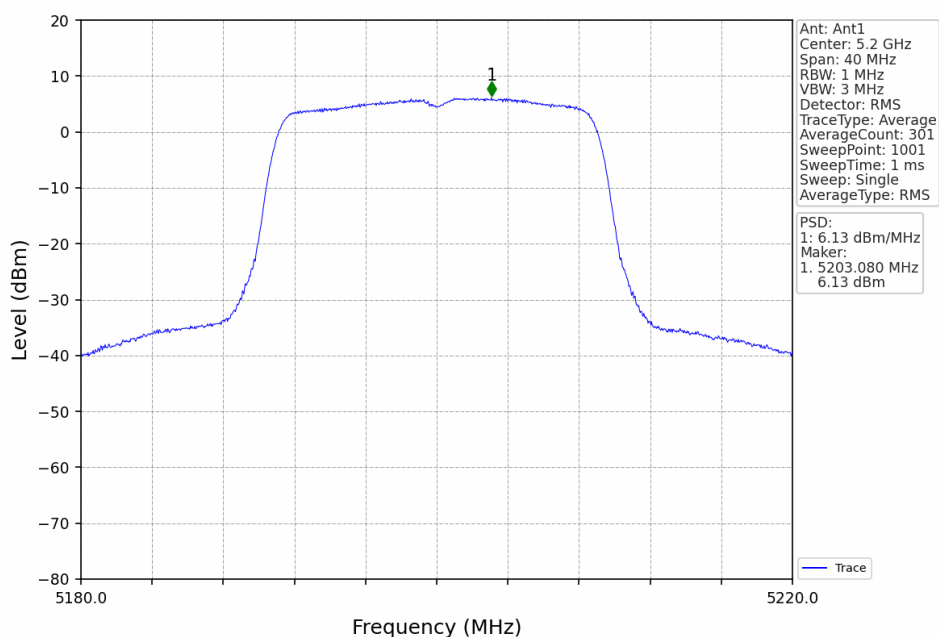
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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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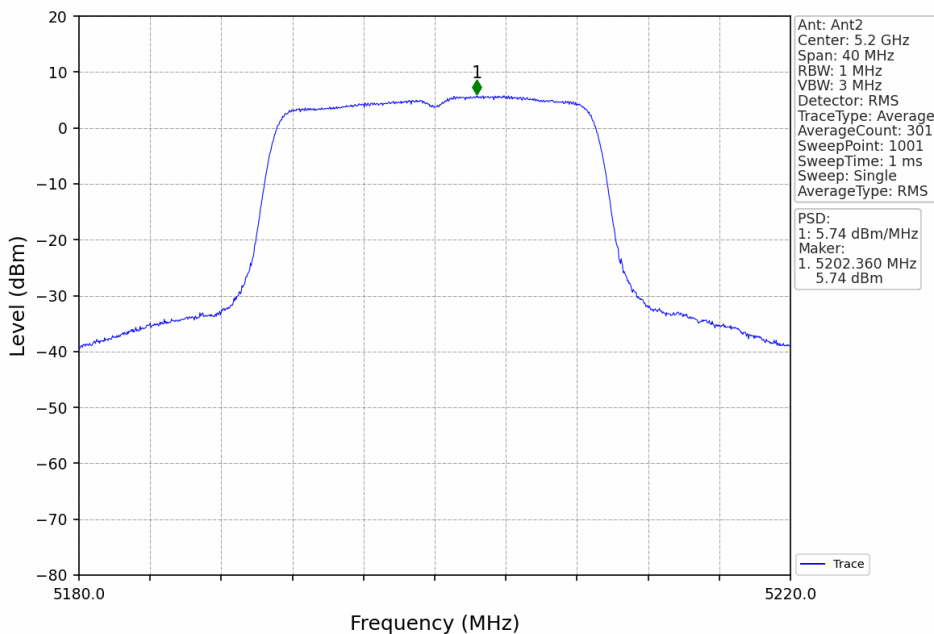
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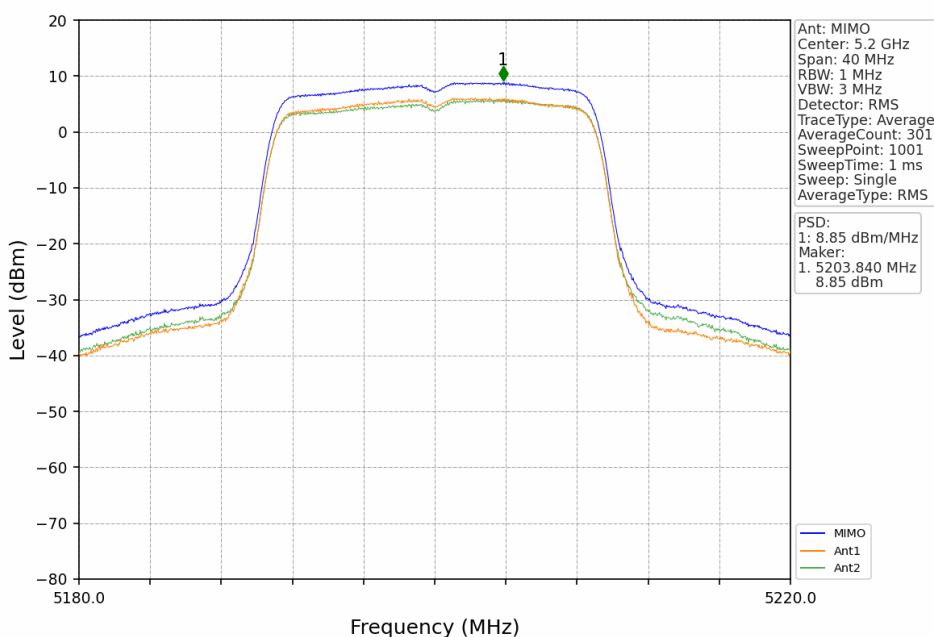
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



802.11n(HT20)_MCH_5200MHz_MIMO_NTNV



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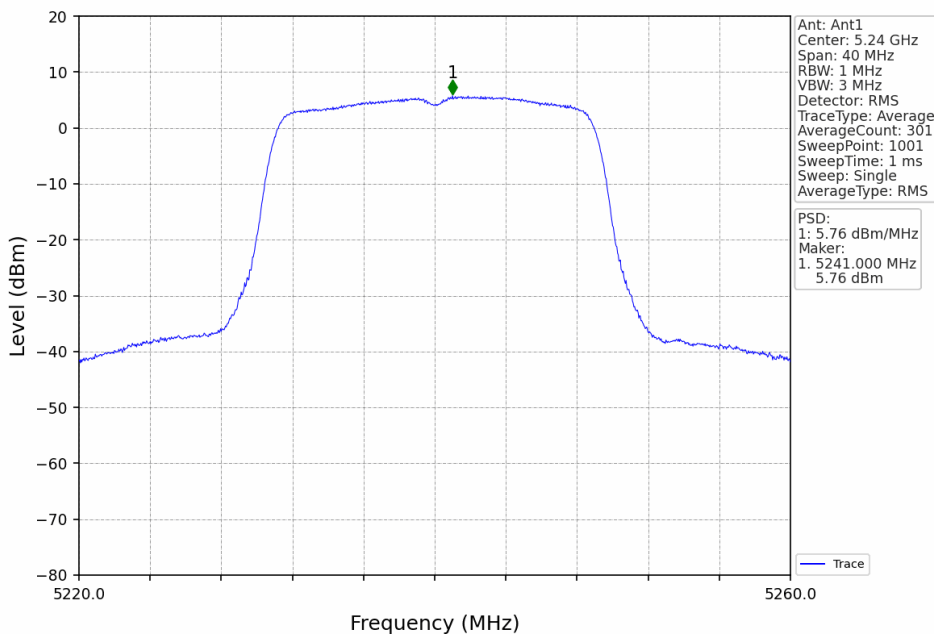
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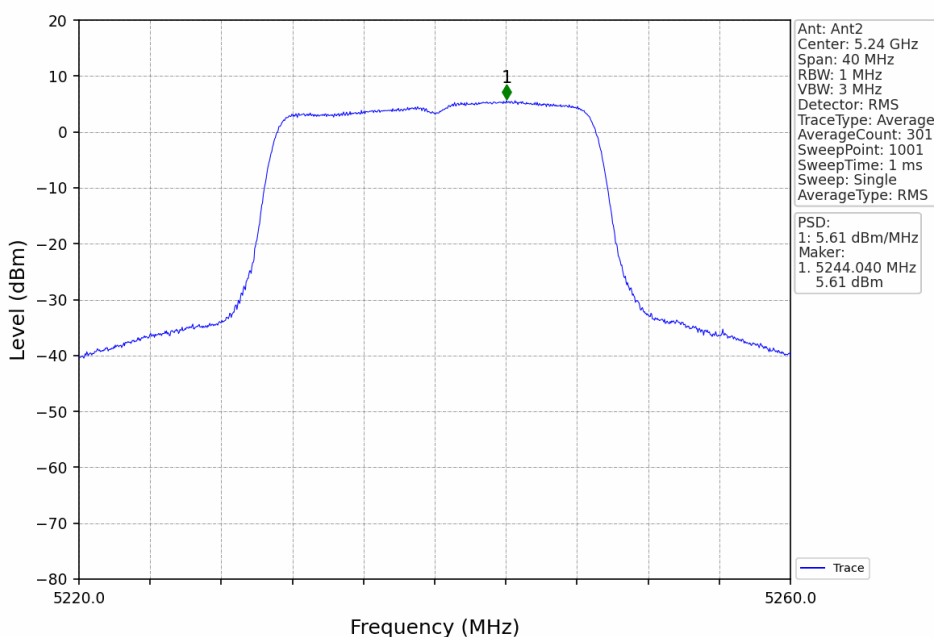
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



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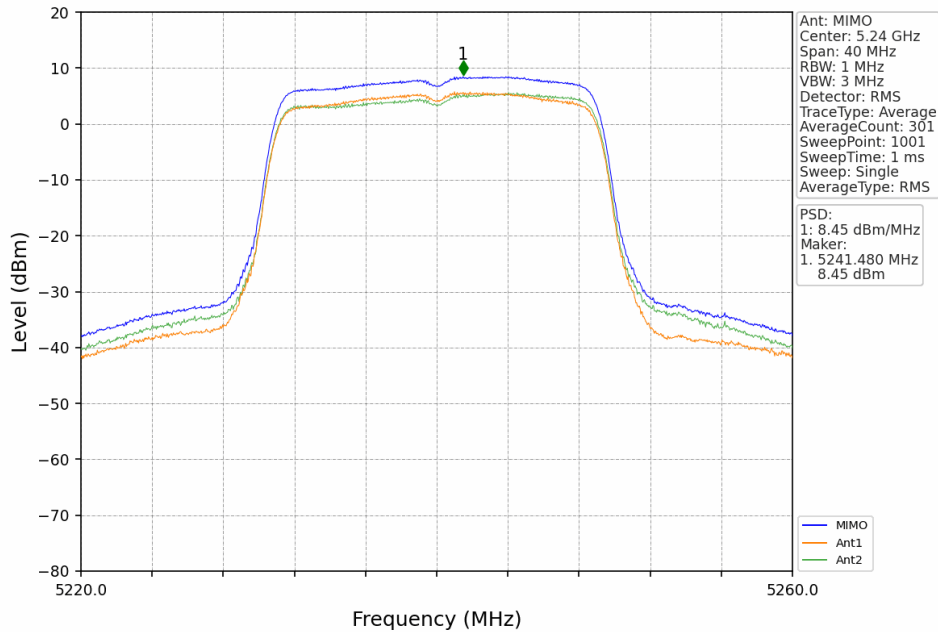
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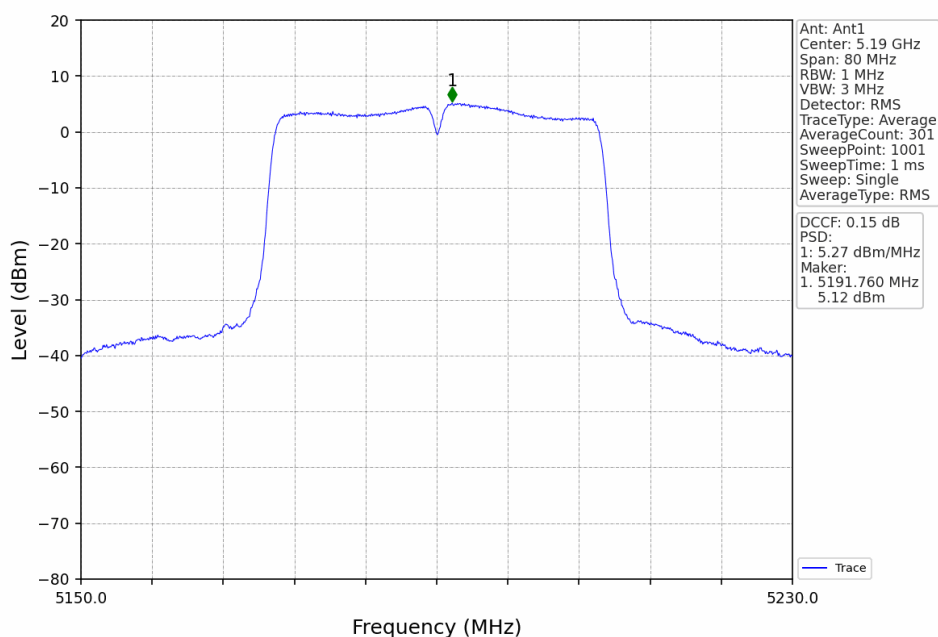
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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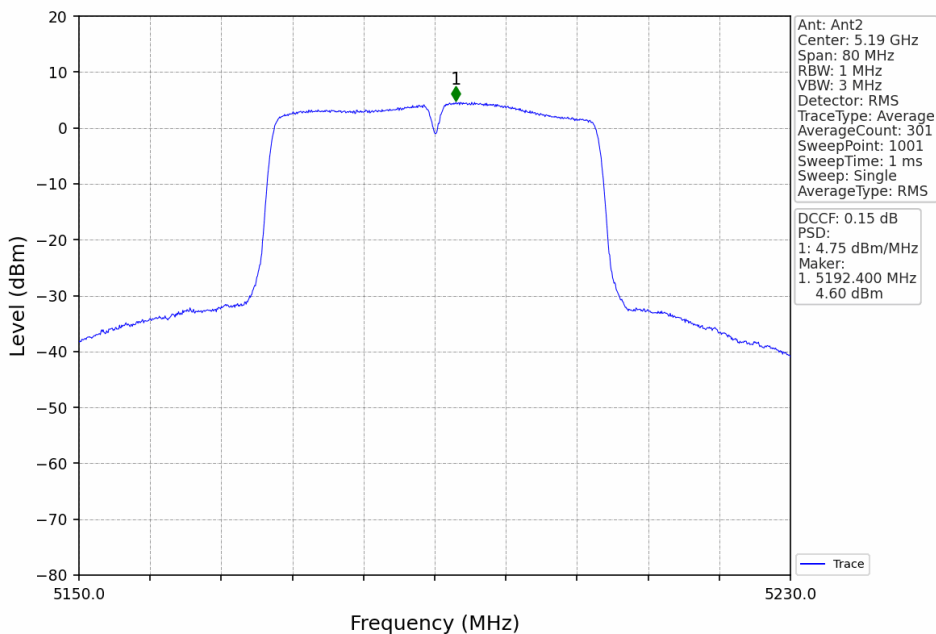
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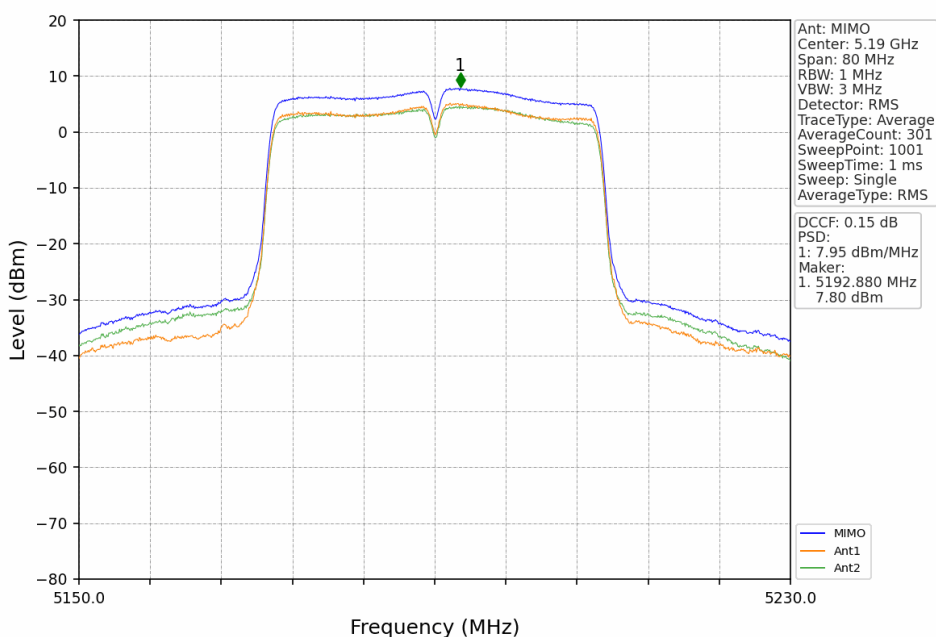
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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_LCH_5190MHz_MIMO_NTNV



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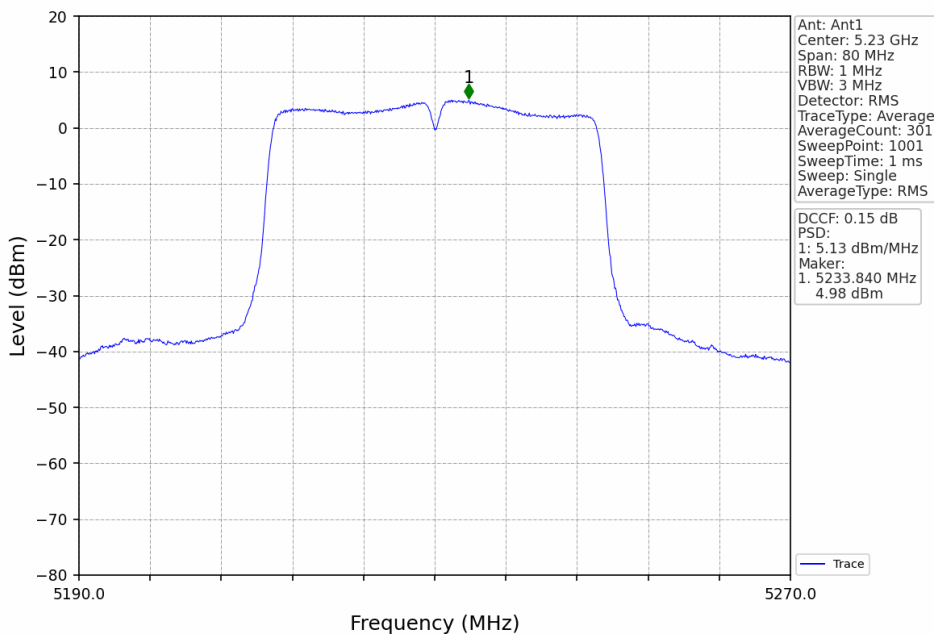
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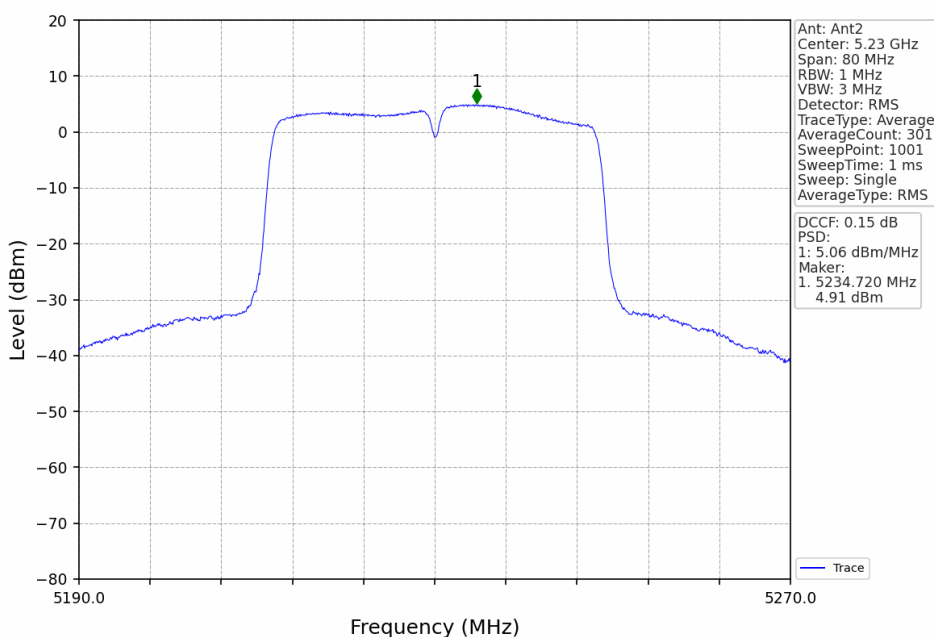
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



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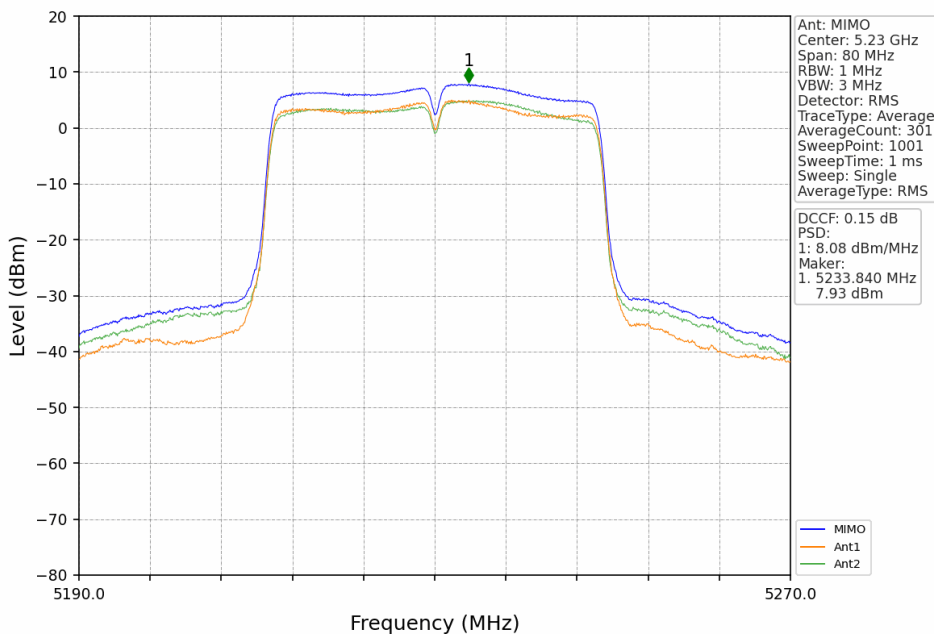
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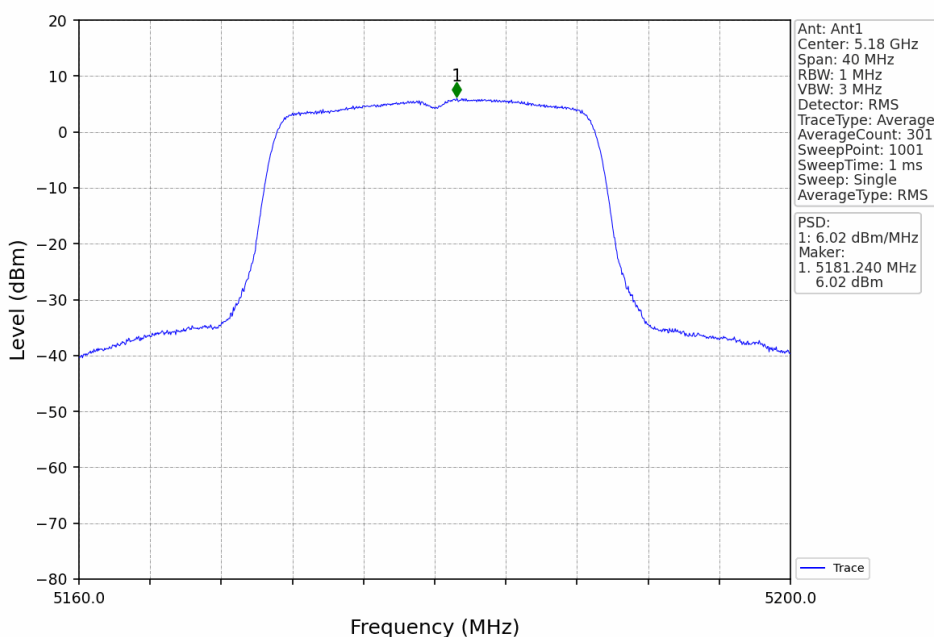
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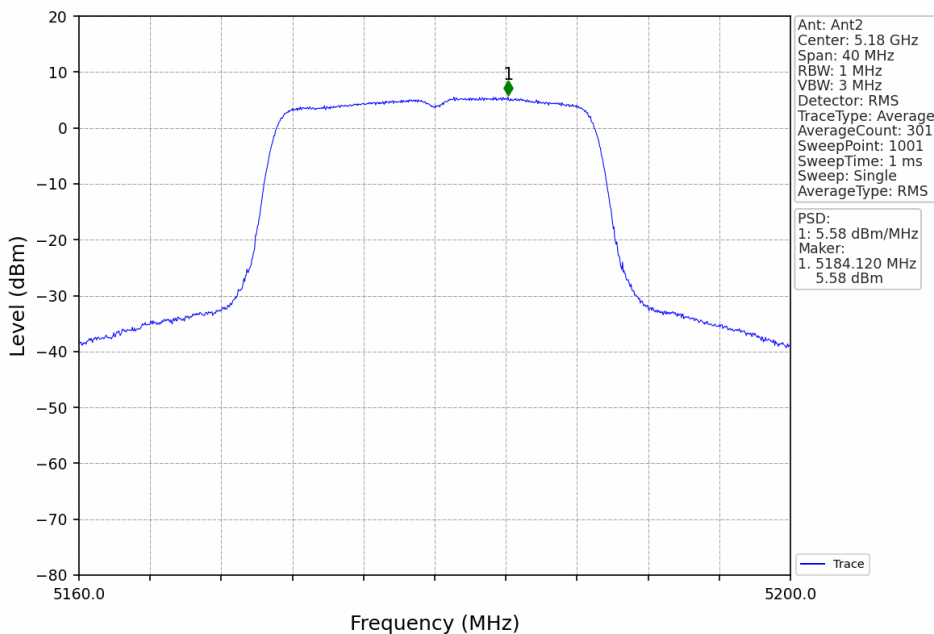
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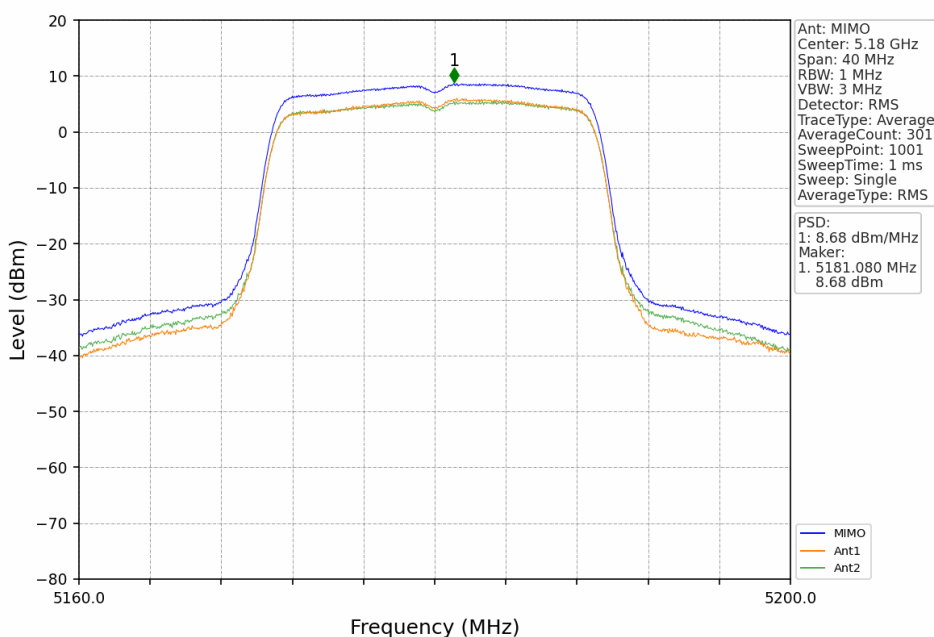
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802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV



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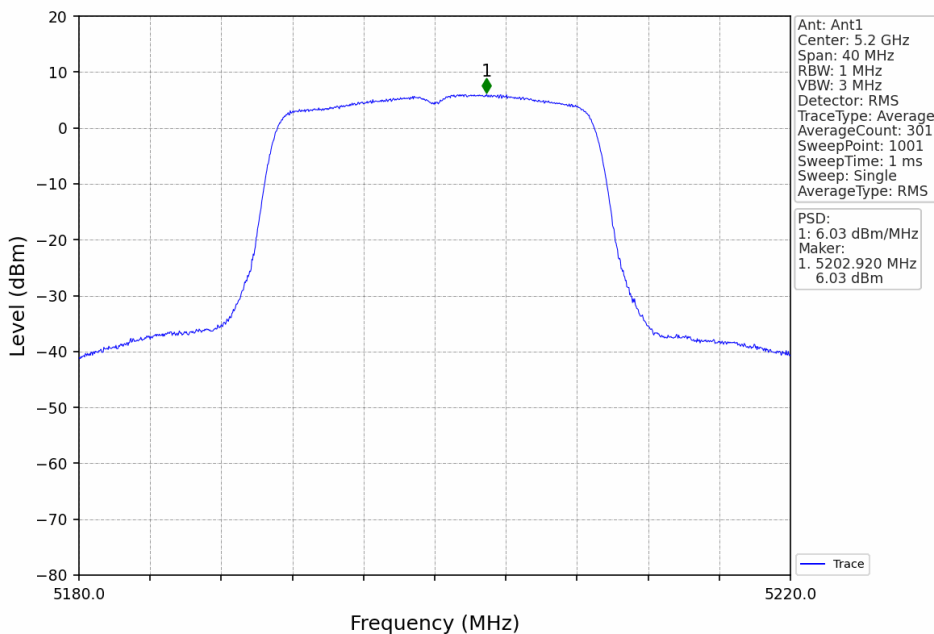
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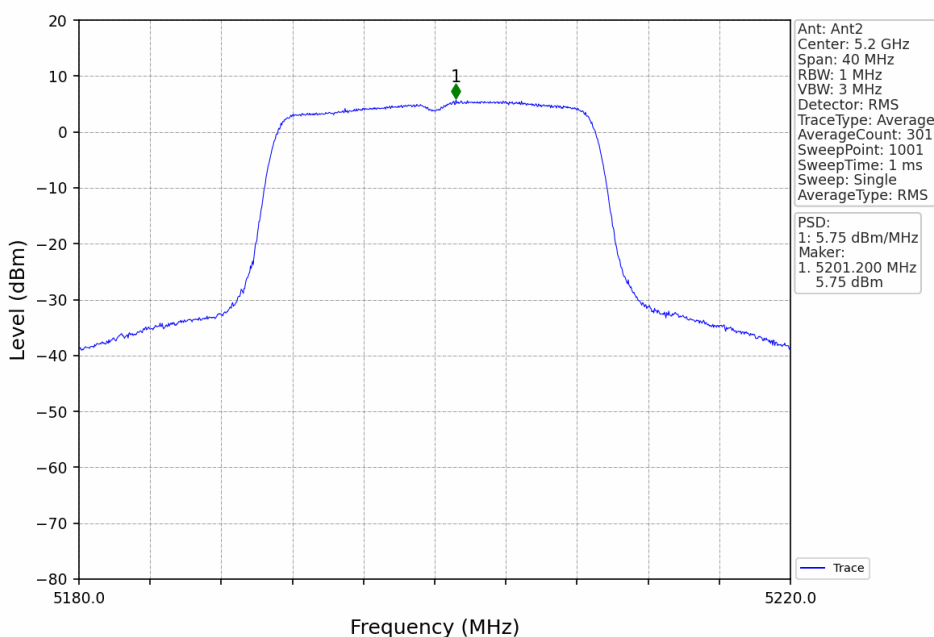
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802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



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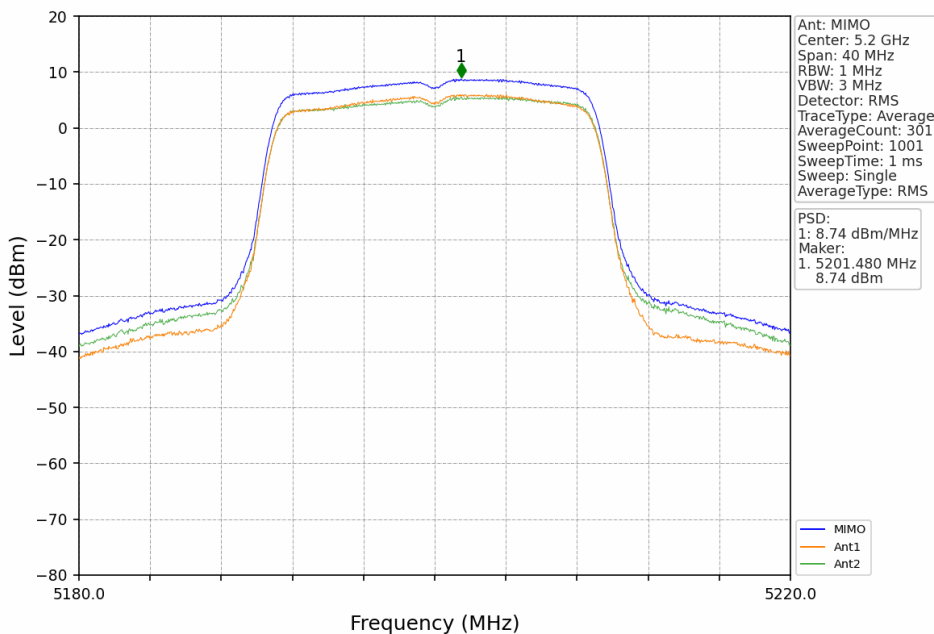
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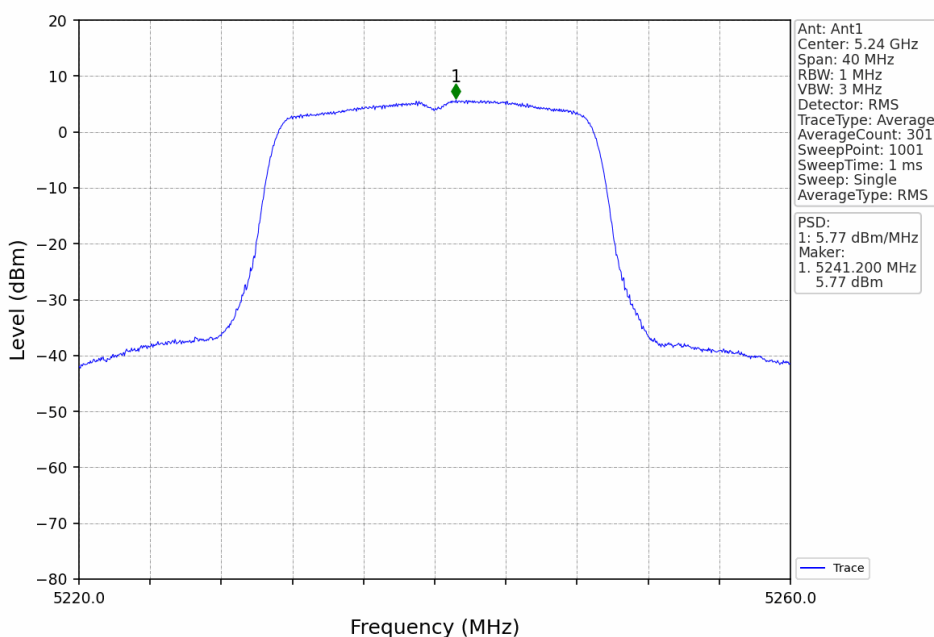
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802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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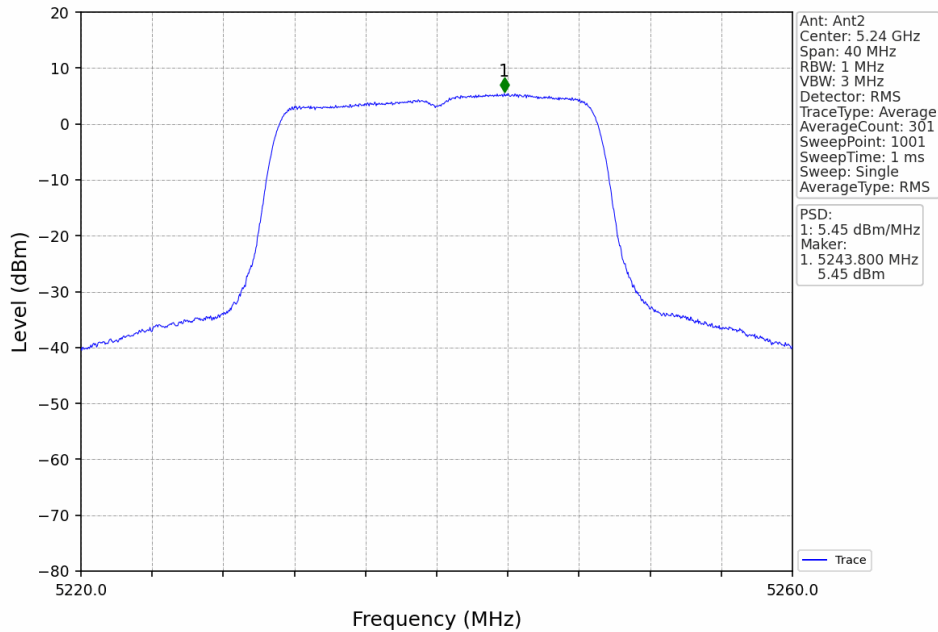
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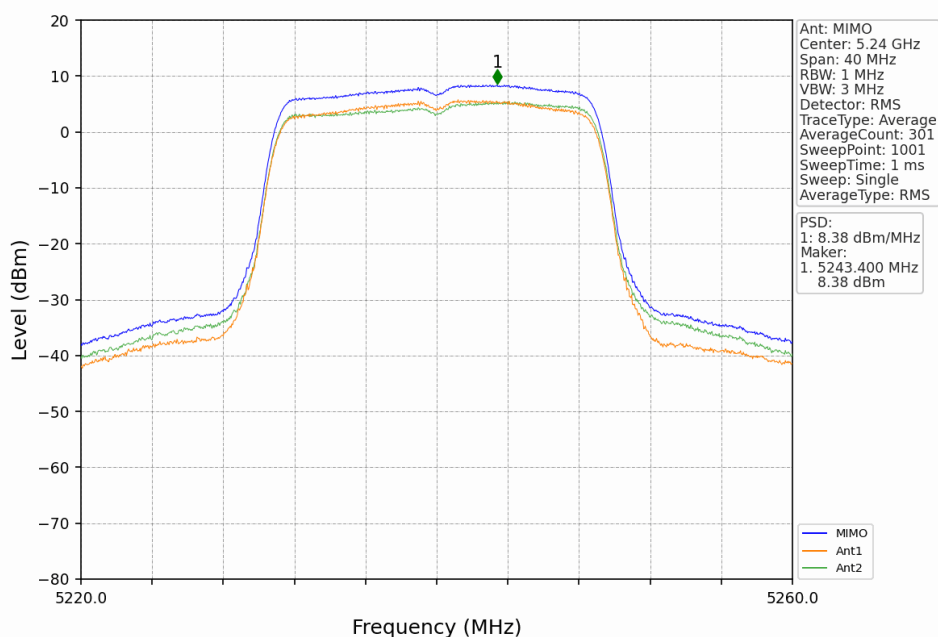
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



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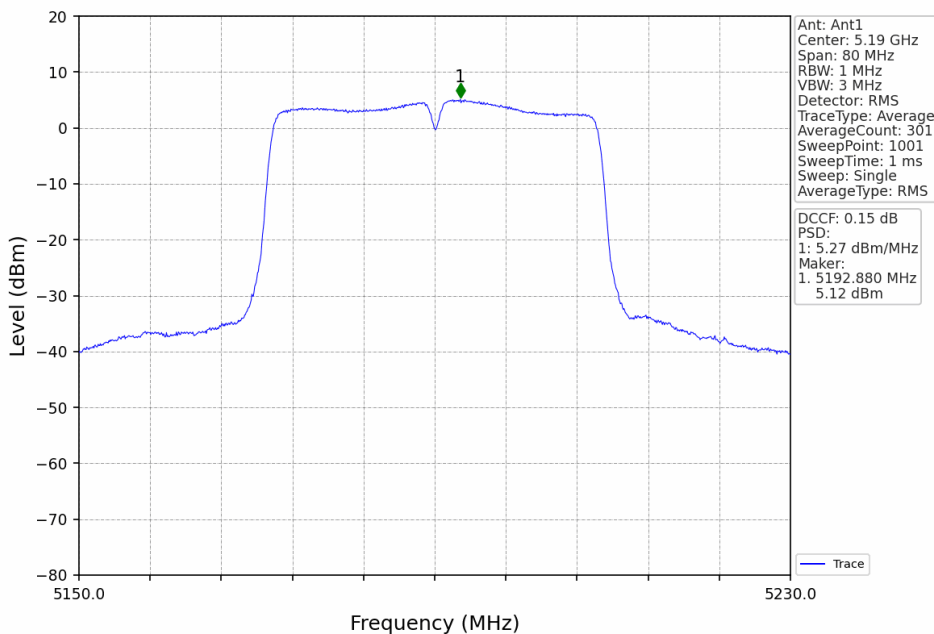
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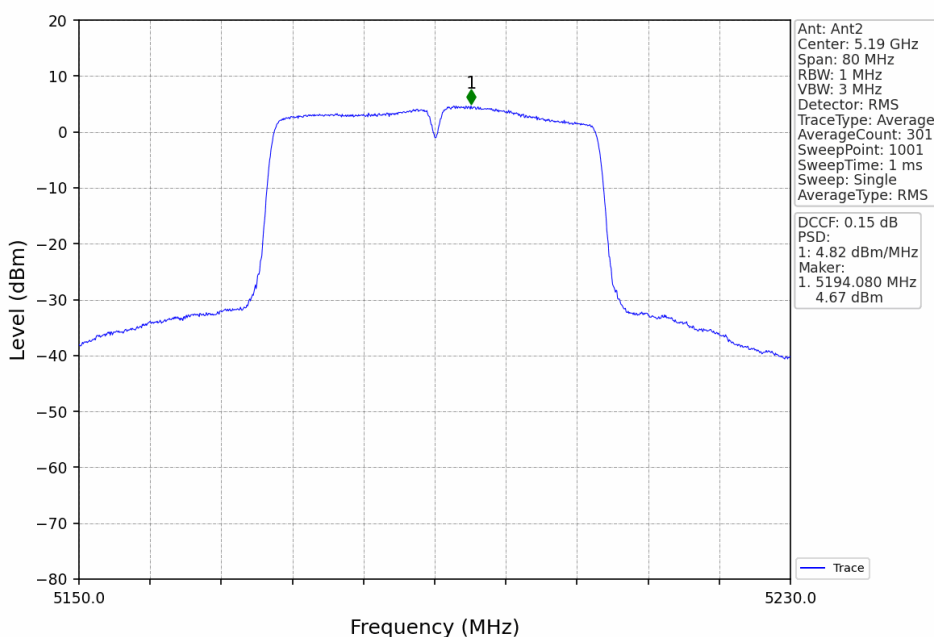
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



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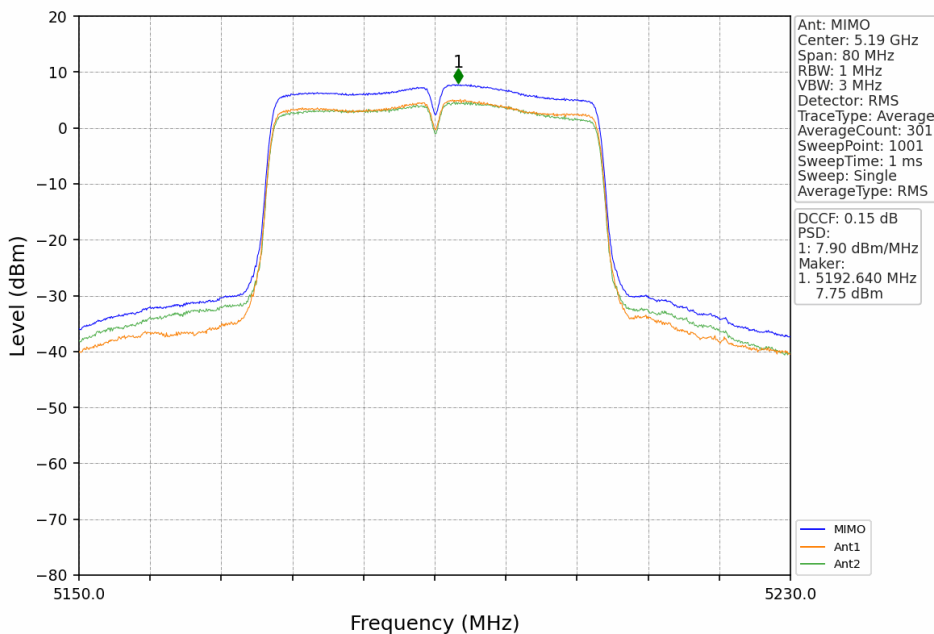
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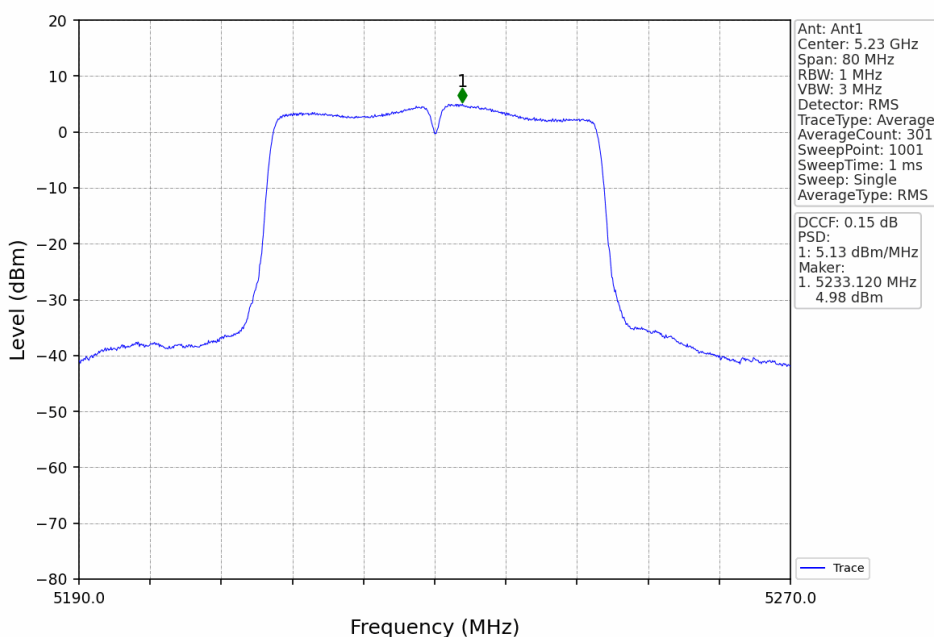
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802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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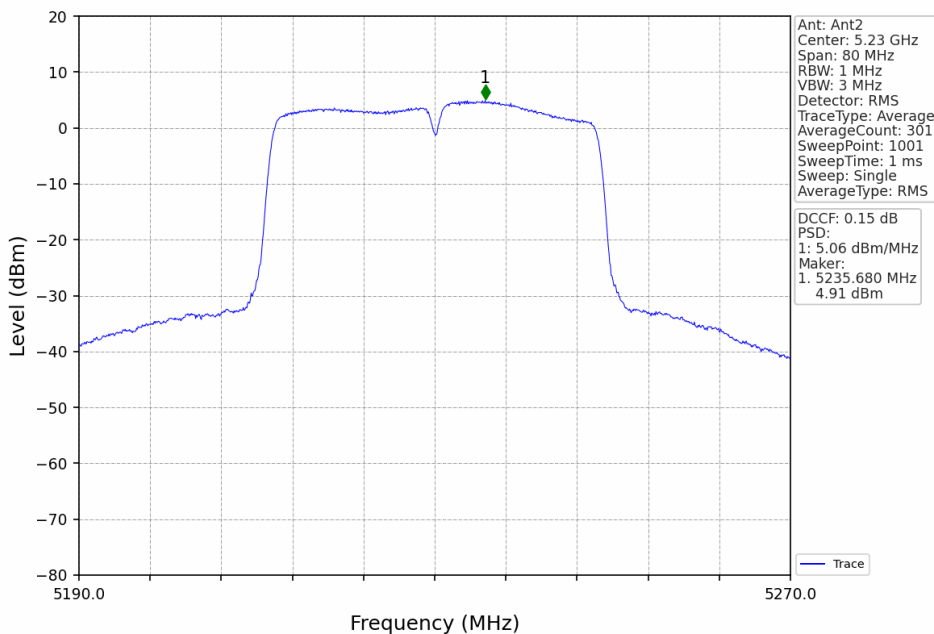
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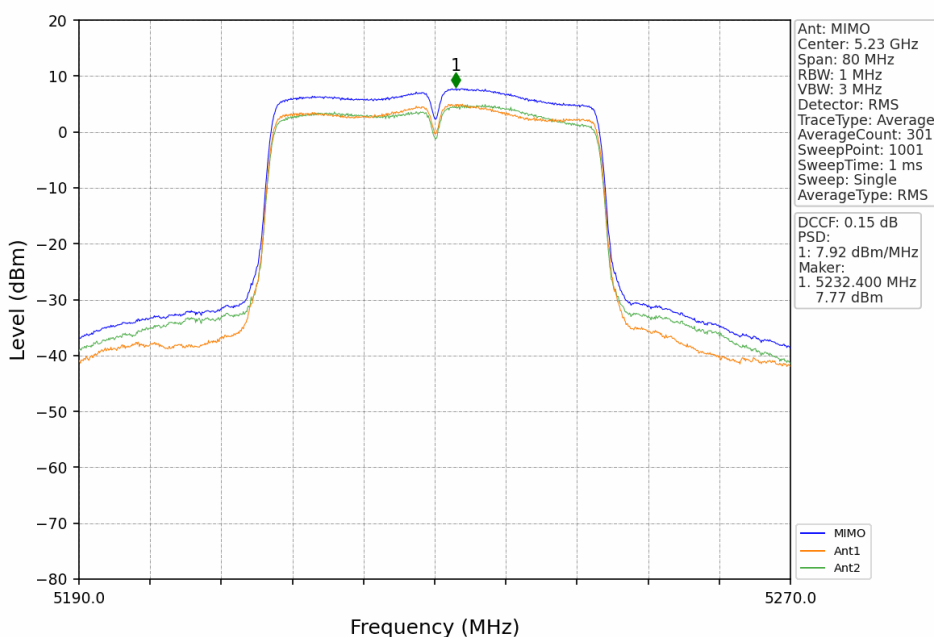
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802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



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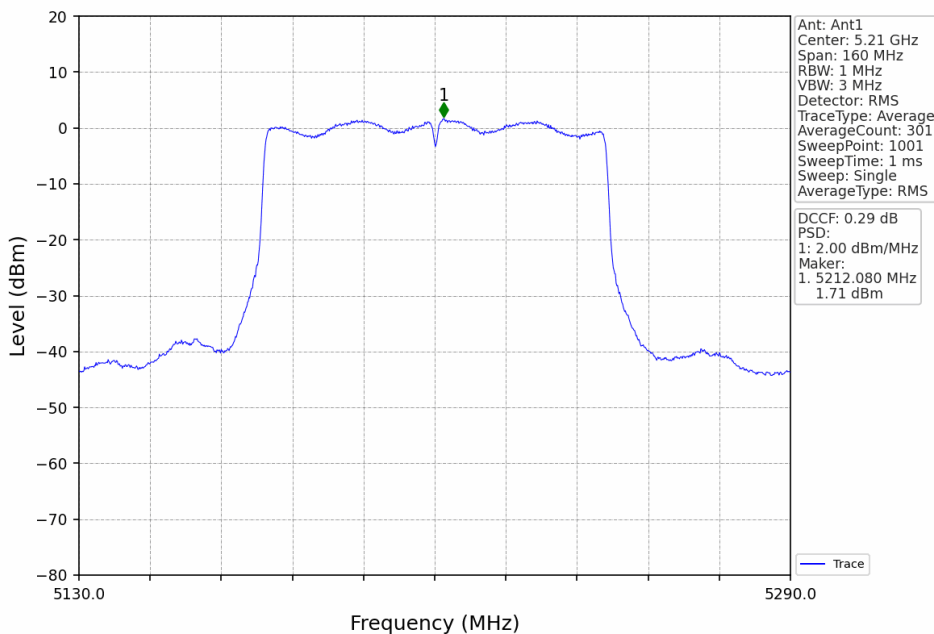
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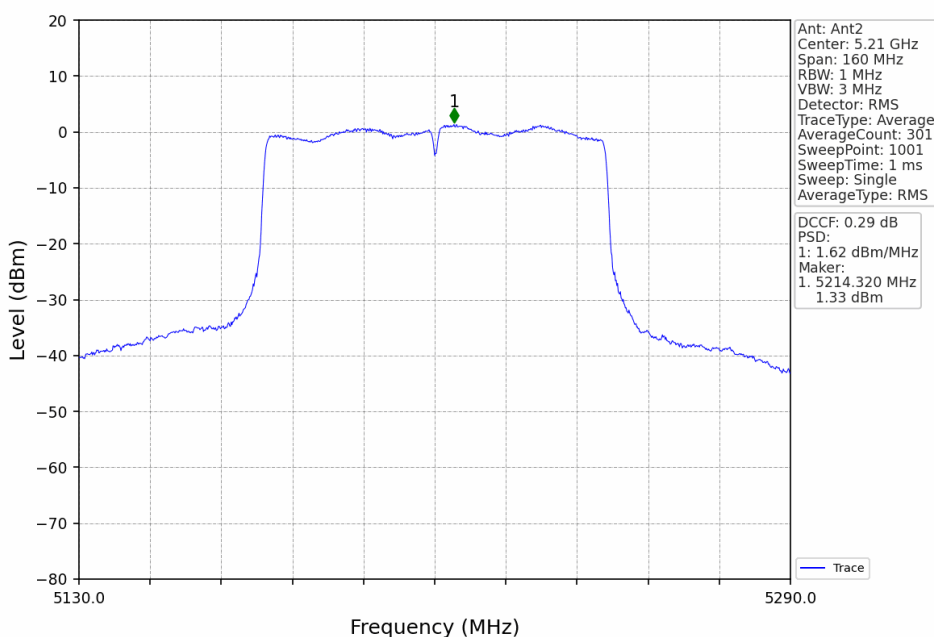
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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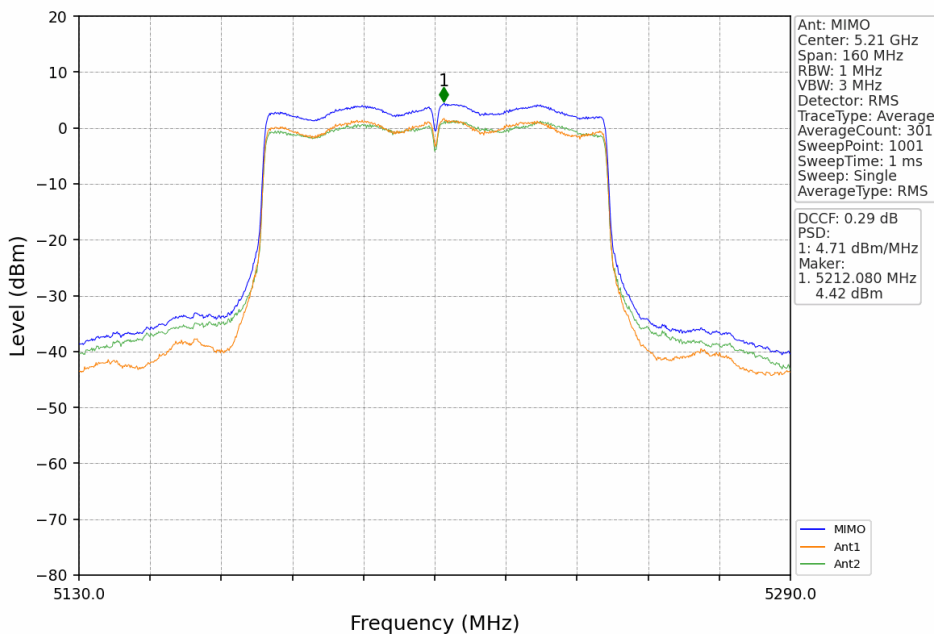
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802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	11.85	10.92	/	<=30	Pass
		5785	10.51	10.43	/	<=30	Pass
		5825	10.56	10.11	/	<=30	Pass
802.11n (HT20)	MIMO	5745	8.62	7.93	10.99	<=28.88	Pass
		5785	7.99	8.21	10.82	<=28.88	Pass
		5825	8.20	8.07	10.58	<=28.88	Pass
802.11n (HT40)	MIMO	5755	5.48	4.90	7.99	<=28.88	Pass
		5795	5.69	5.48	8.22	<=28.88	Pass
802.11ac (VHT20)	MIMO	5745	8.69	7.82	11.09	<=28.88	Pass
		5785	7.92	8.13	10.82	<=28.88	Pass
		5825	8.11	7.93	10.66	<=28.88	Pass
802.11ac (VHT40)	MIMO	5755	5.37	4.77	7.94	<=28.88	Pass
		5795	5.74	5.44	8.16	<=28.88	Pass
802.11ac (VHT80)	MIMO	5775	1.93	1.73	4.57	<=28.88	Pass



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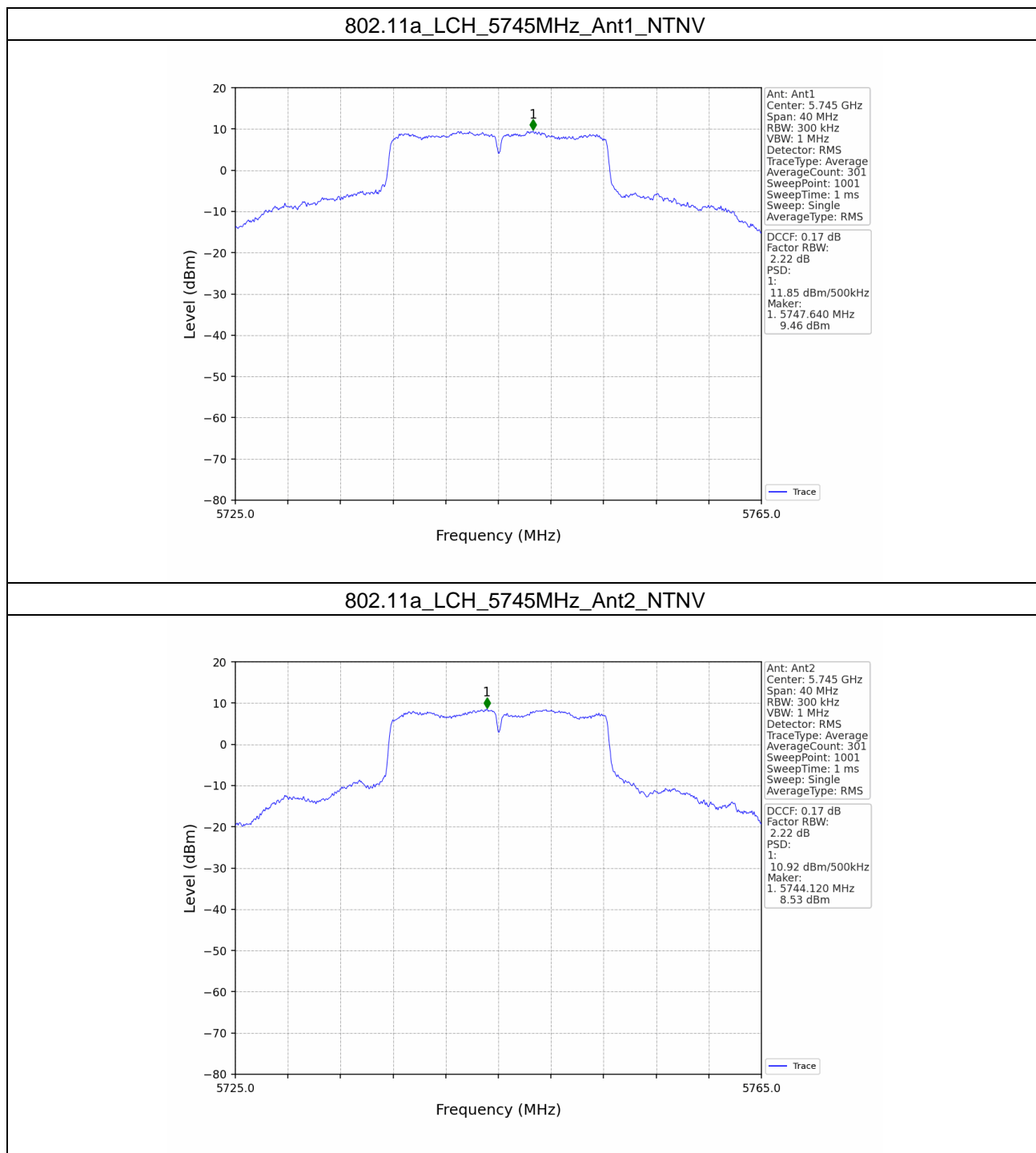
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4.2.2 Test Graph



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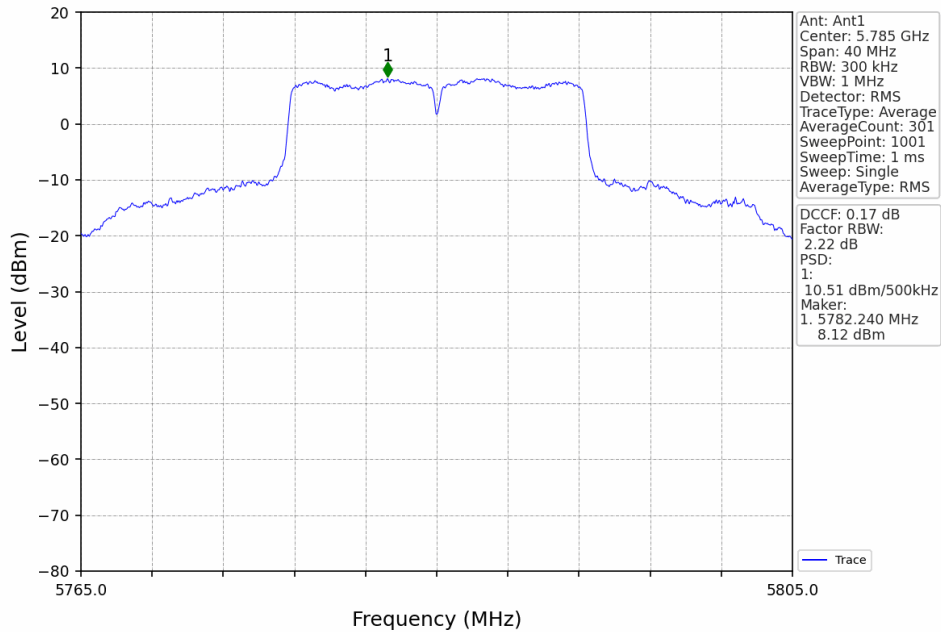
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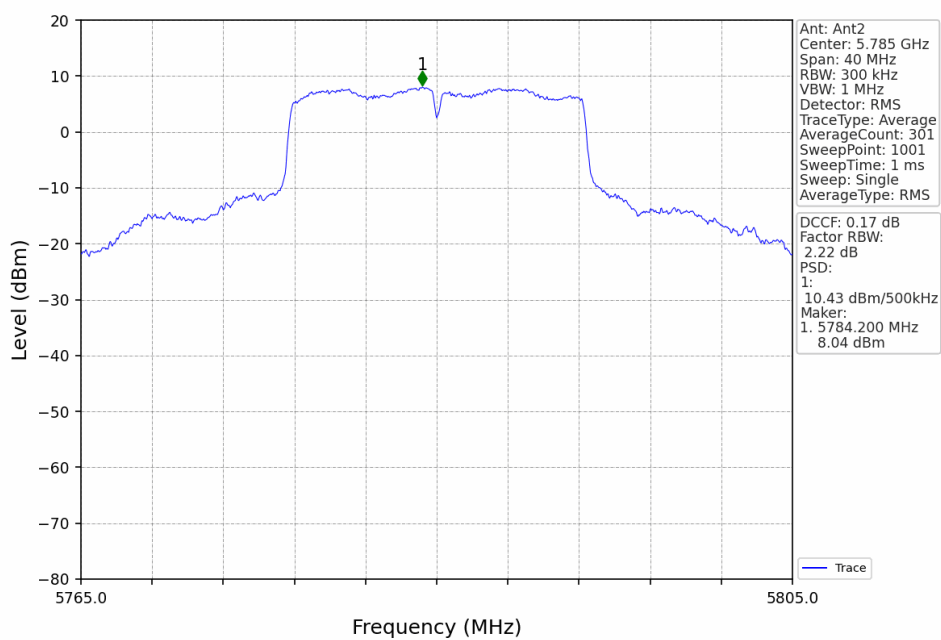
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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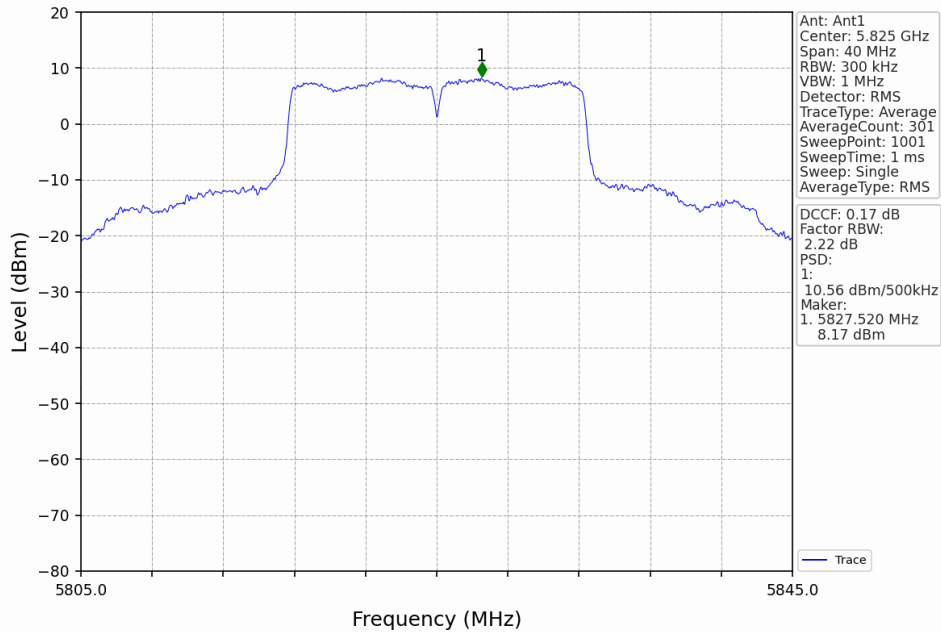
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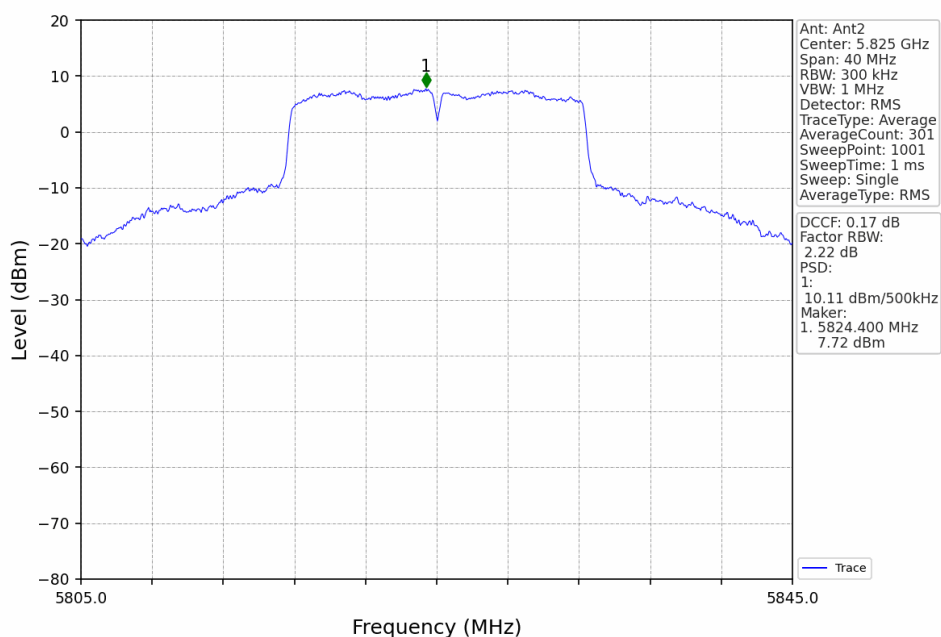
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802.11a_HCH_5825MHz_Ant2_NTNV



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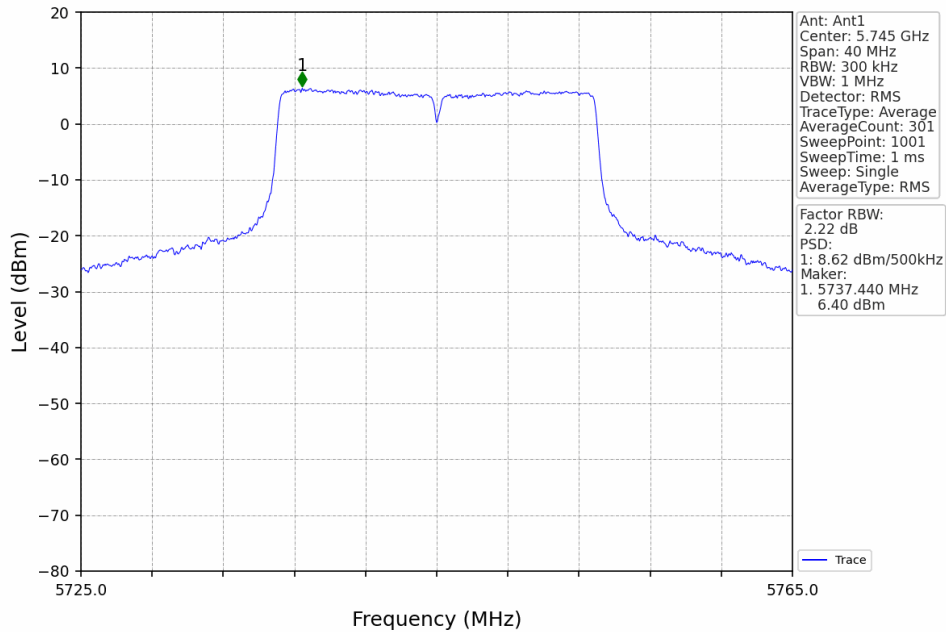
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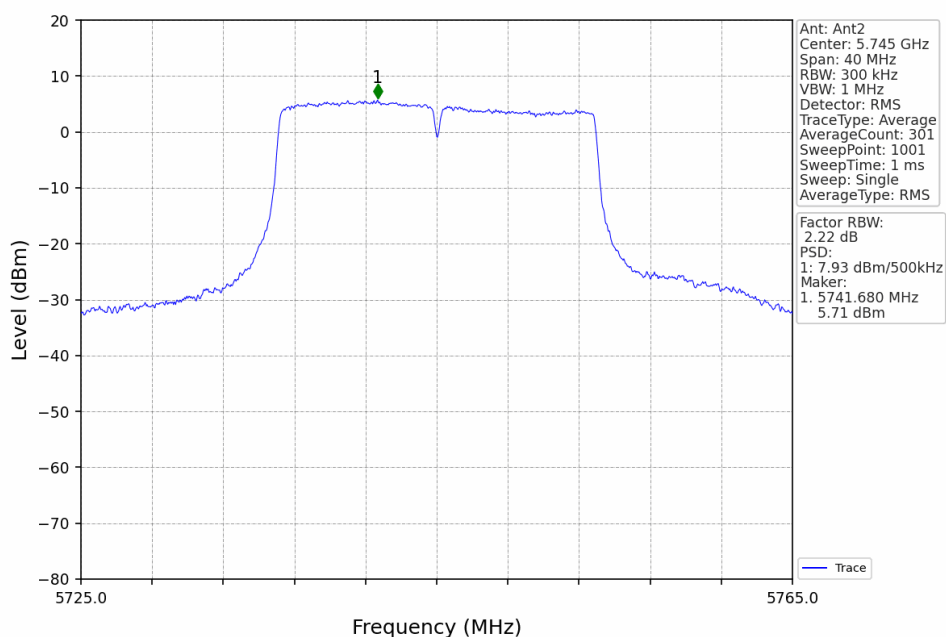
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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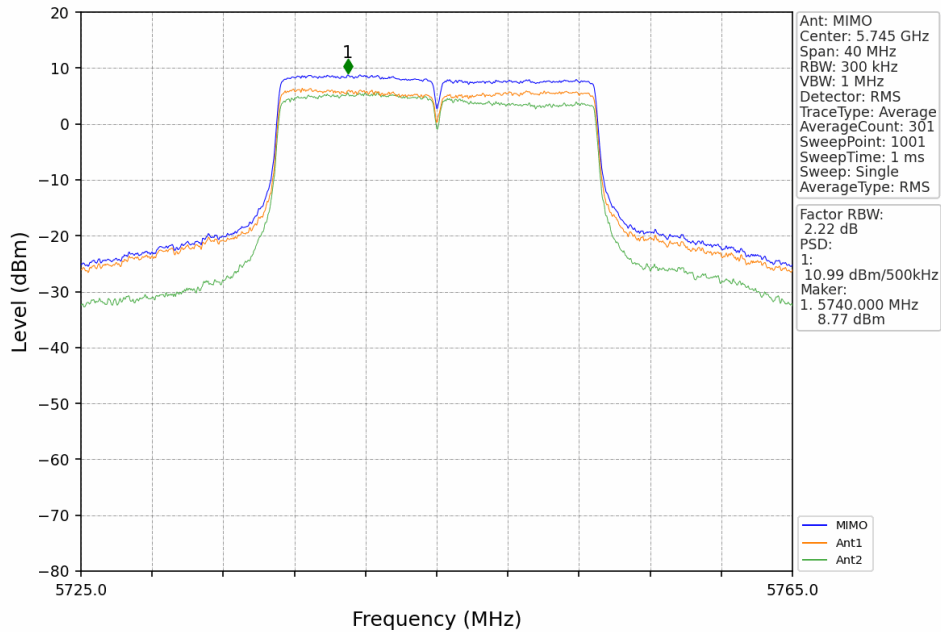
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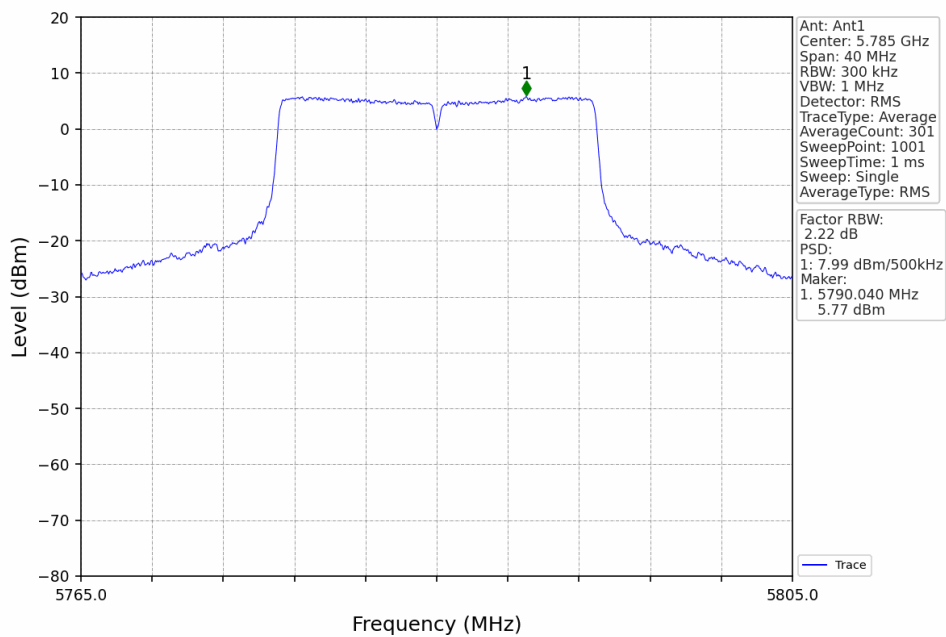
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802.11n(HT20)_LCH_5745MHz_MIMO_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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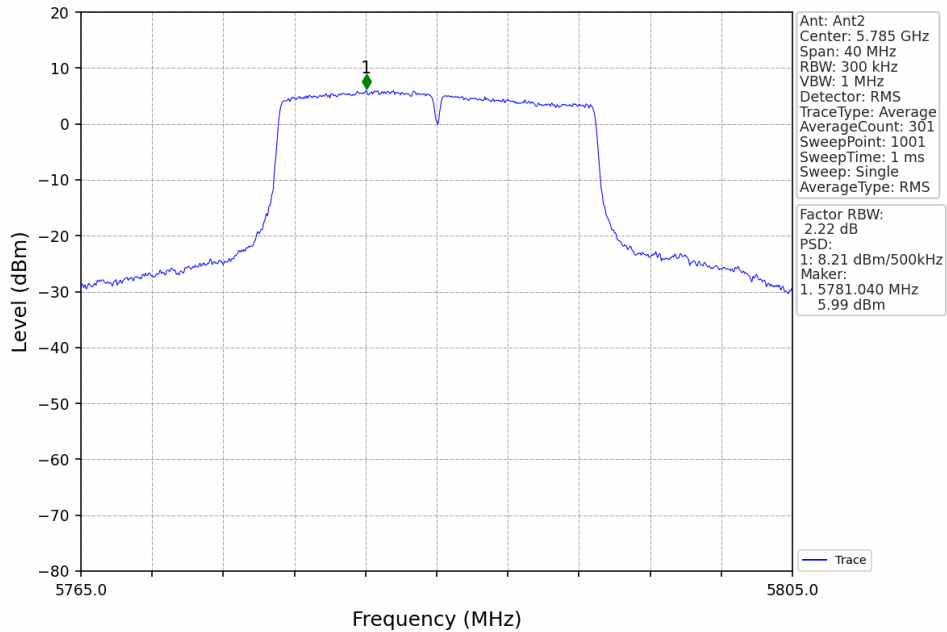
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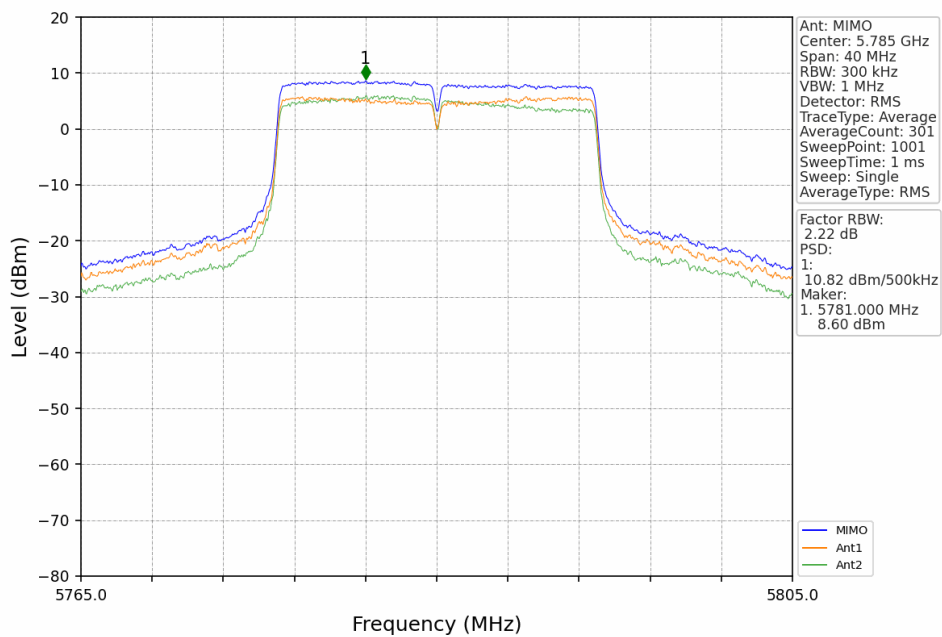
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802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



802.11n(HT20)_MCH_5785MHz_MIMO_NTNV



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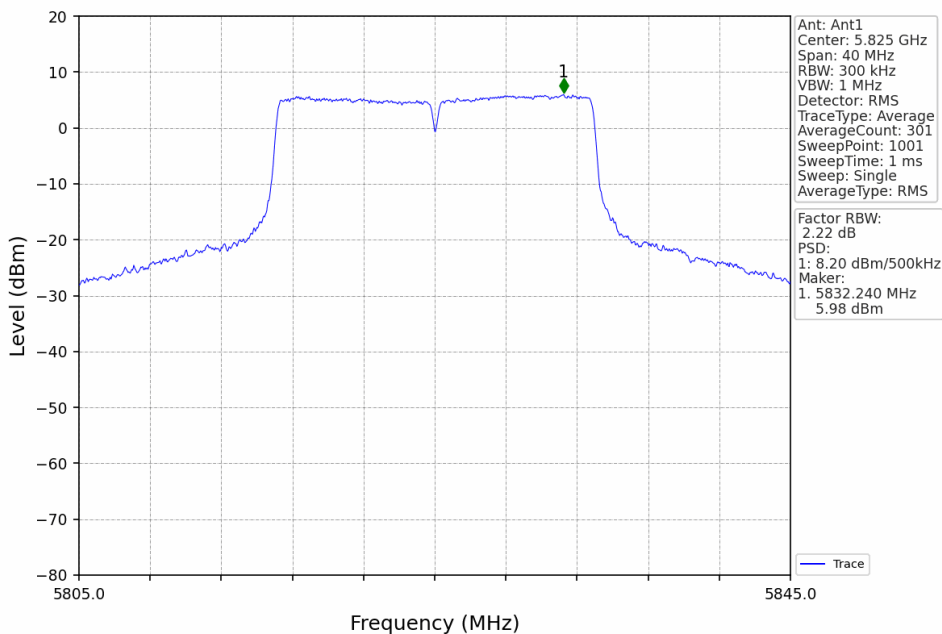
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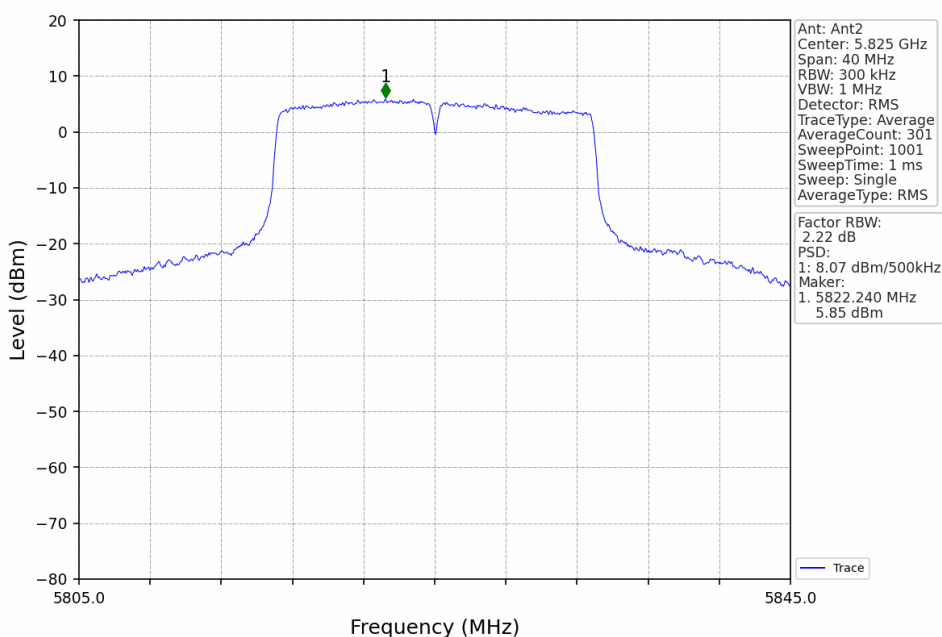
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



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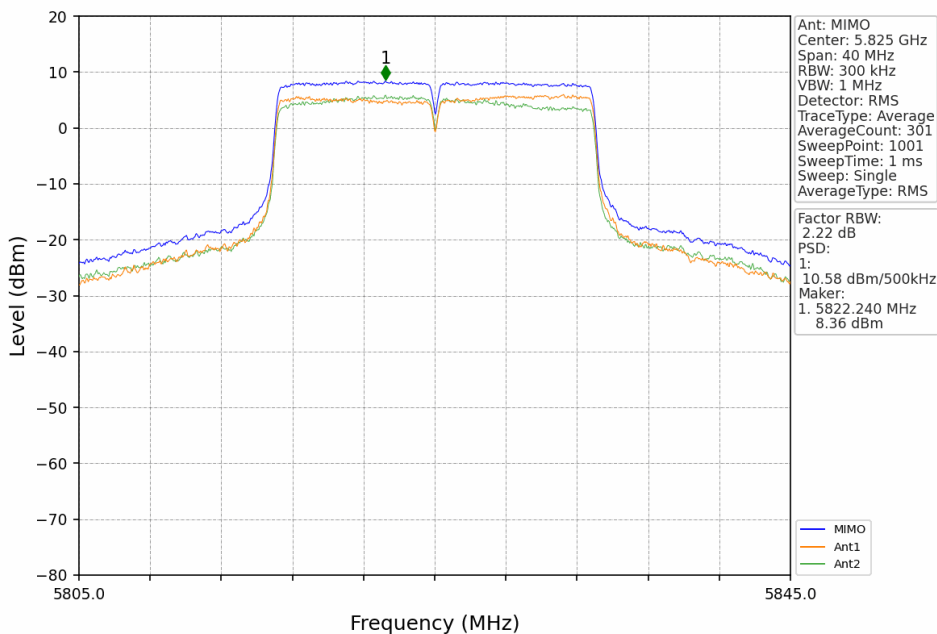
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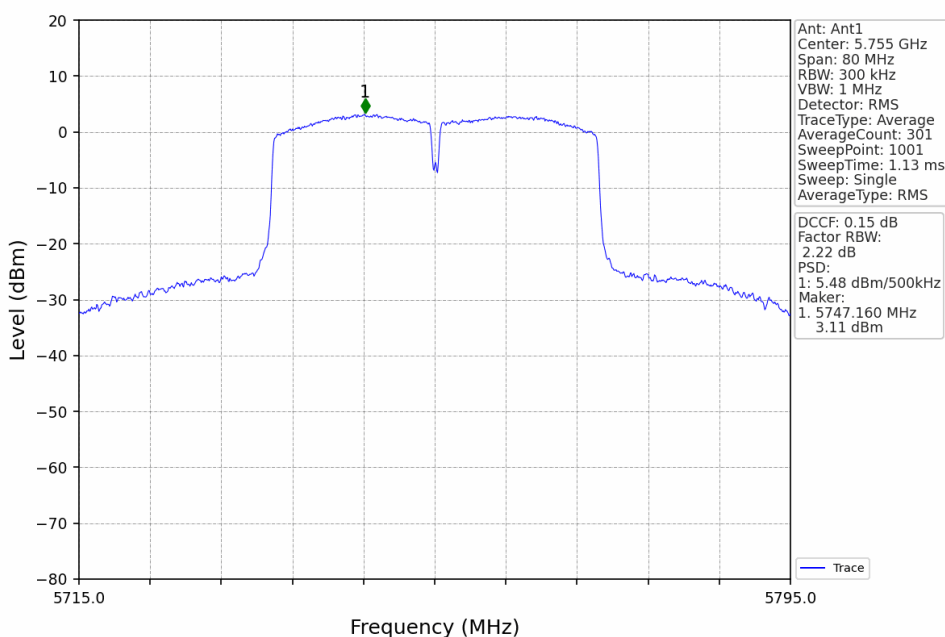
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802.11n(HT20)_HCH_5825MHz_MIMO_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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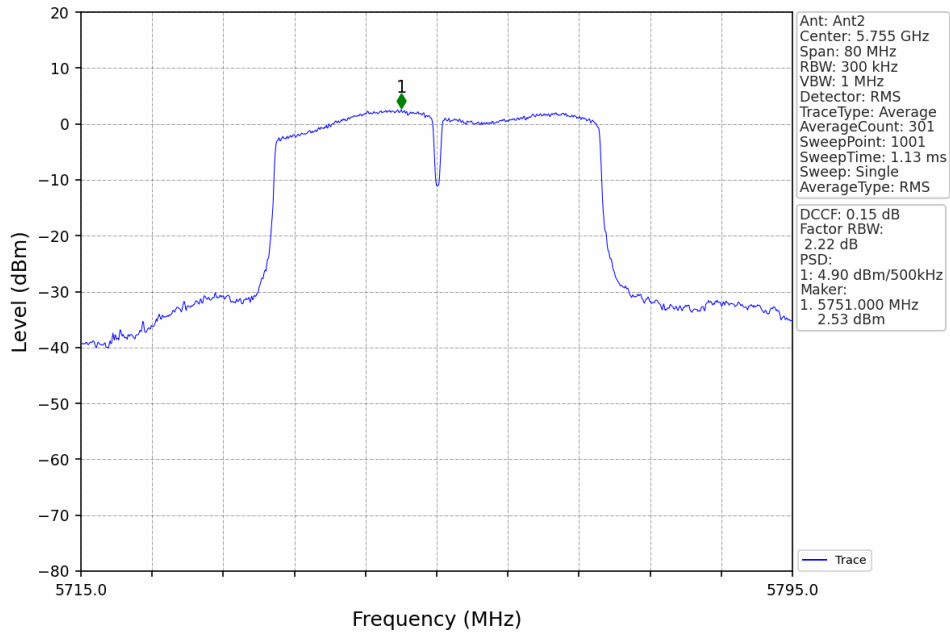
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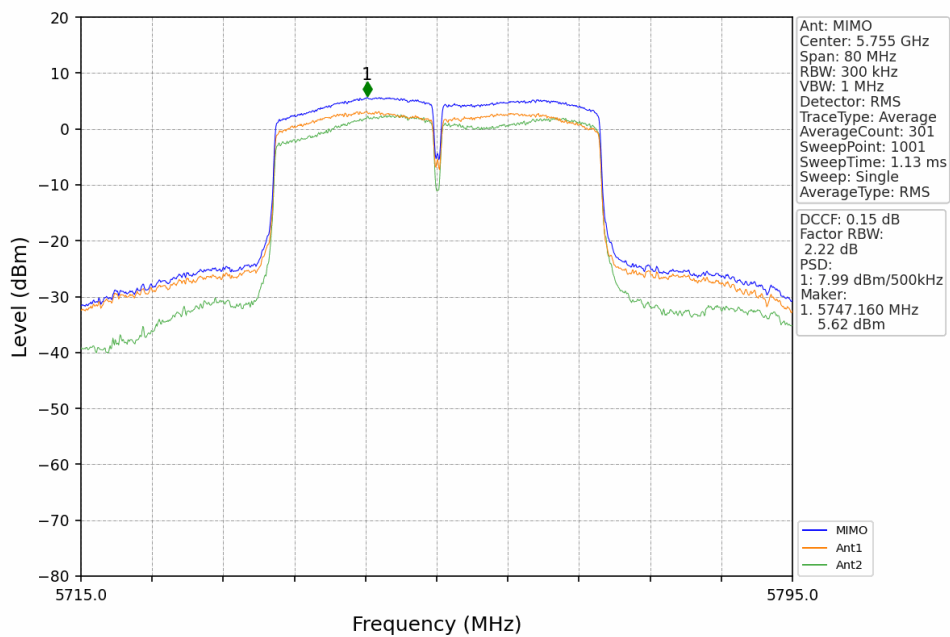
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802.11n(HT40)_LCH_5755MHz_MIMO_NTNV



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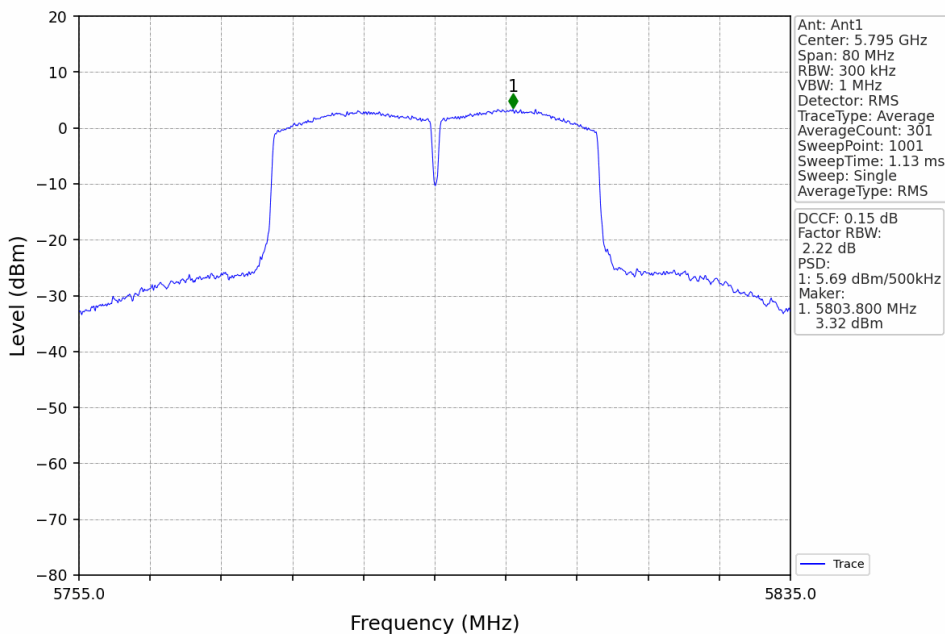
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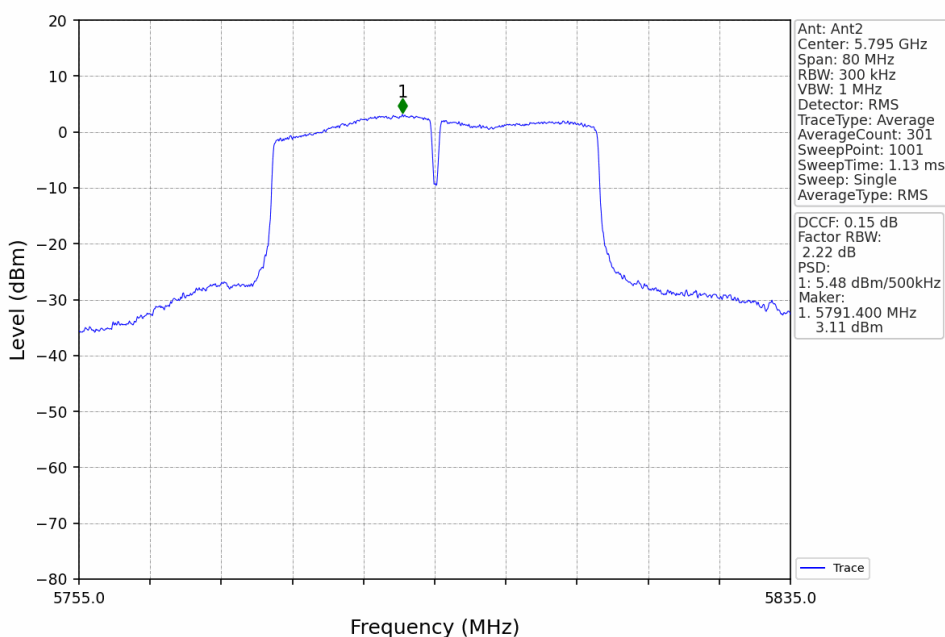
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



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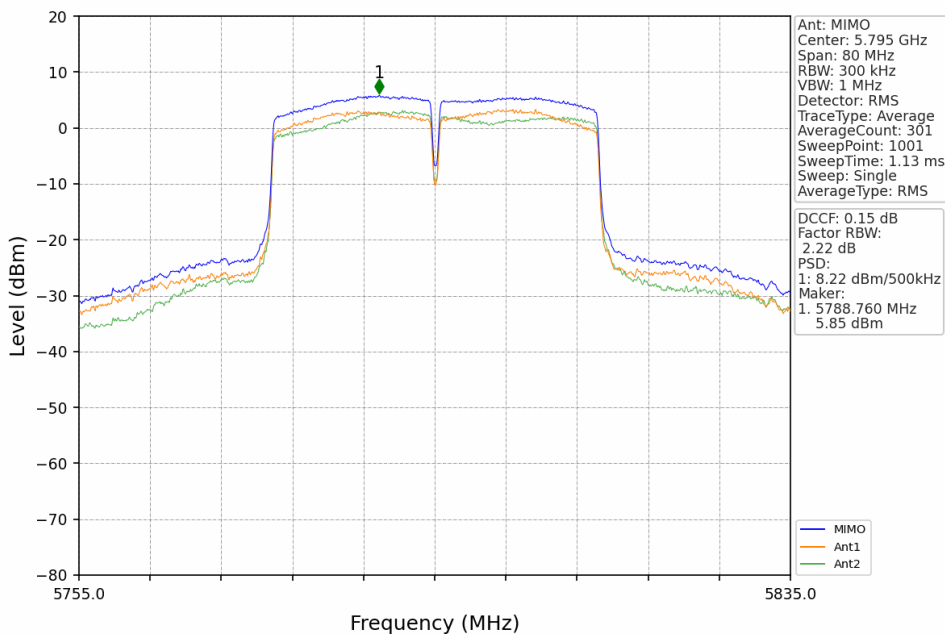
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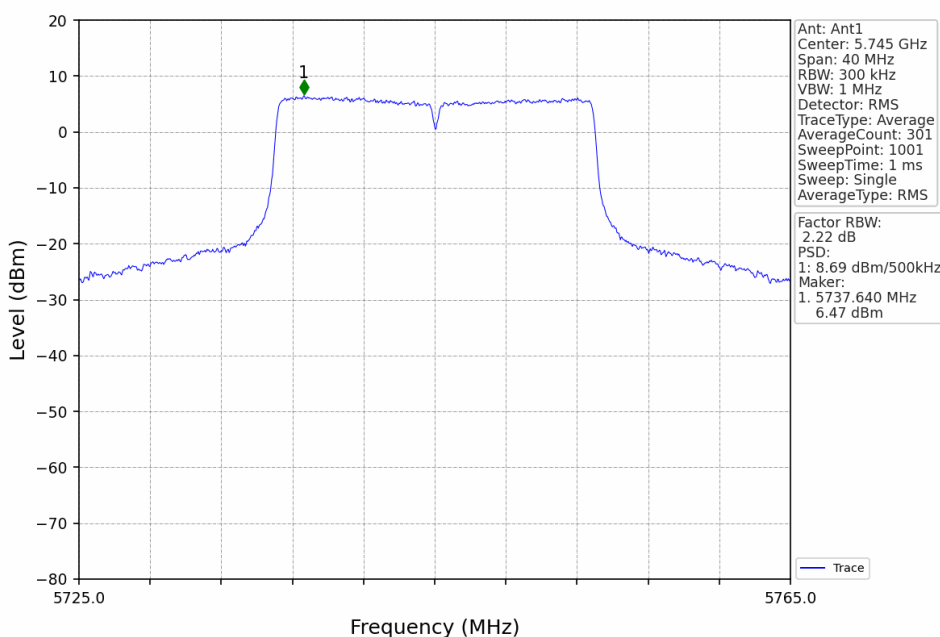
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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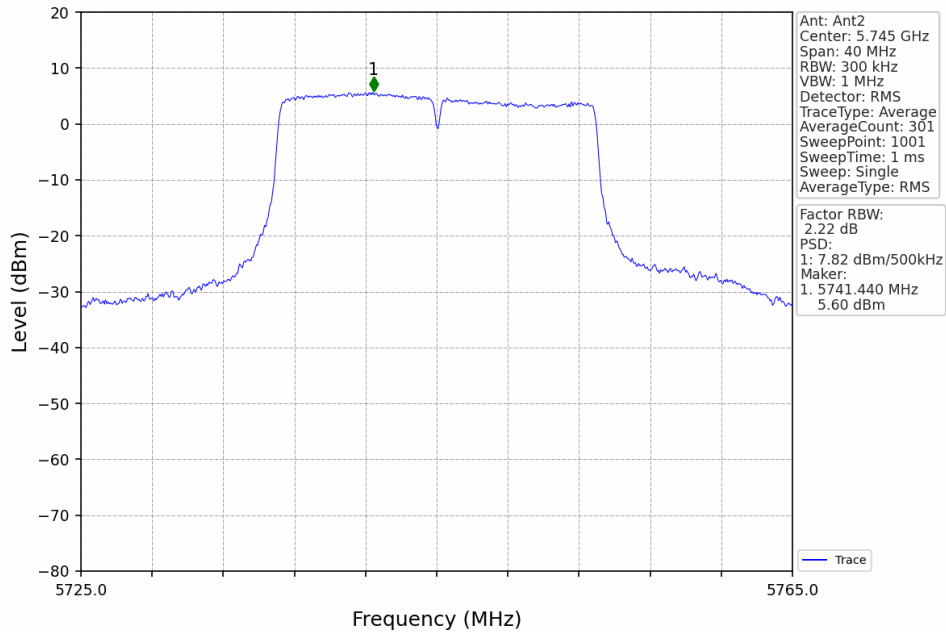
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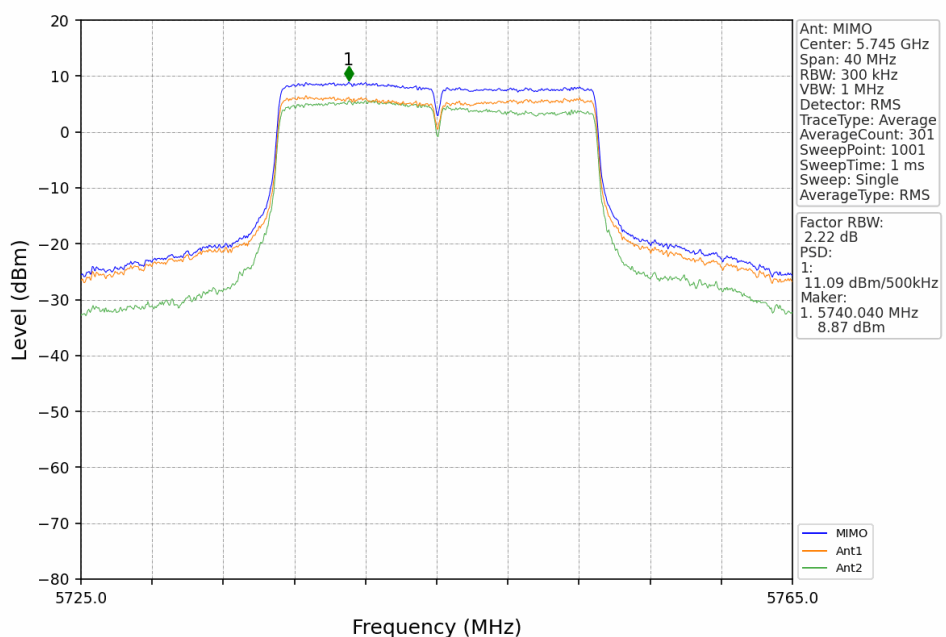
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802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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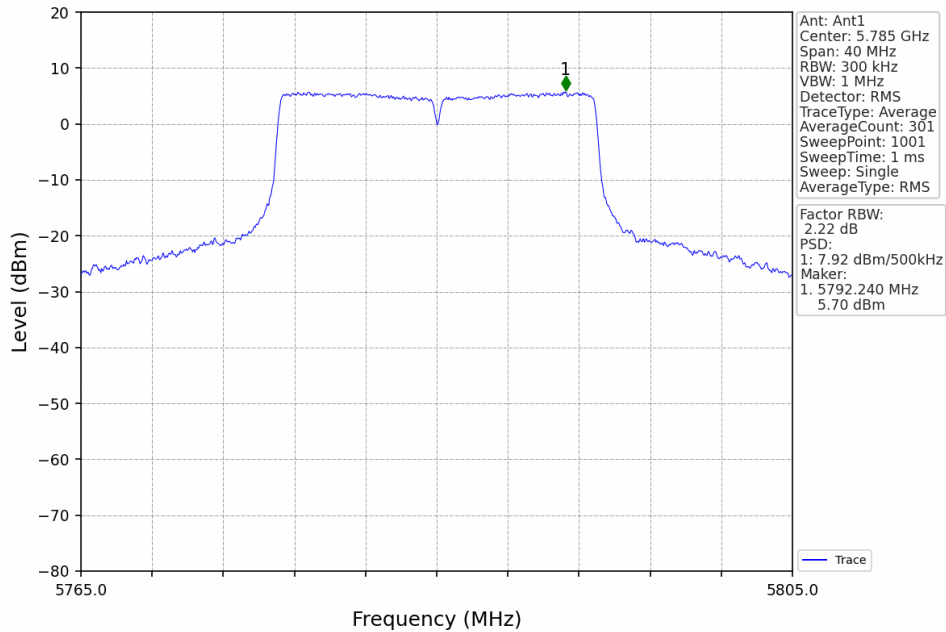
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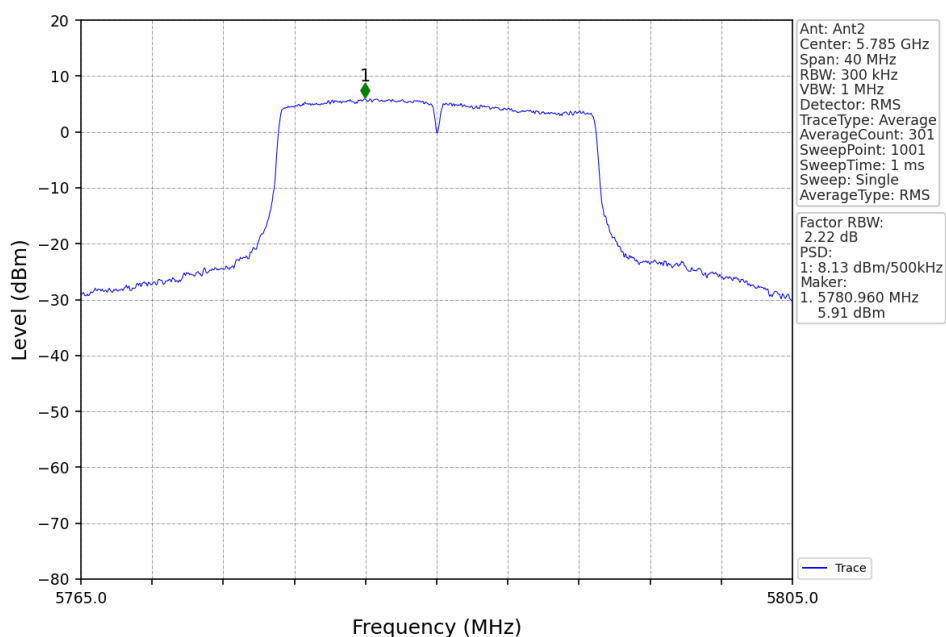
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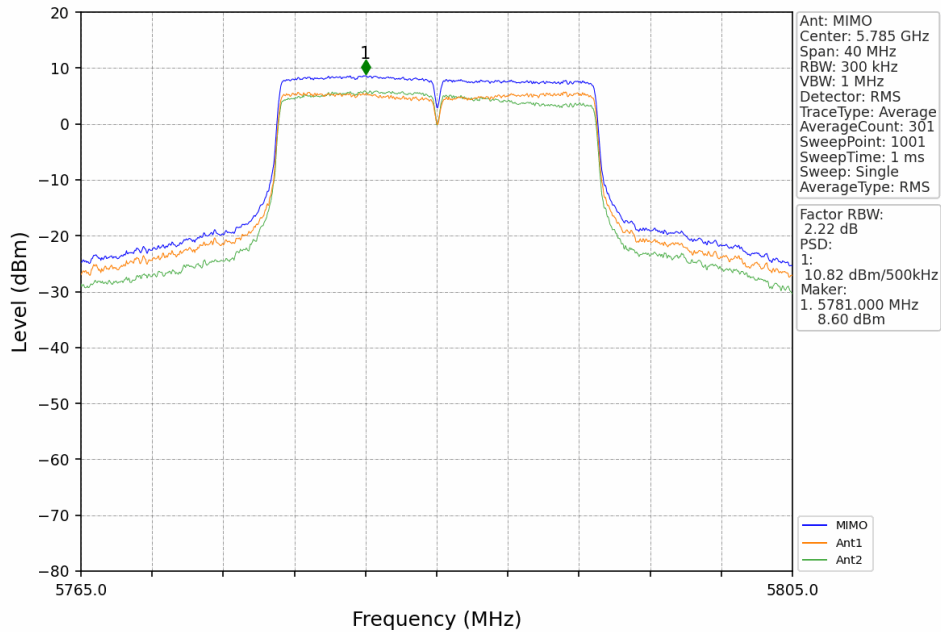
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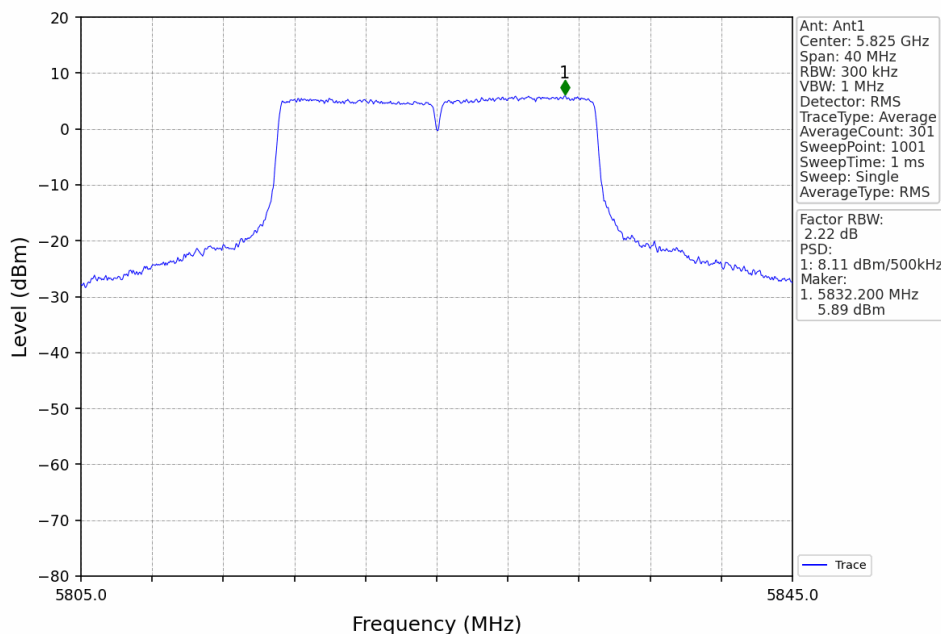
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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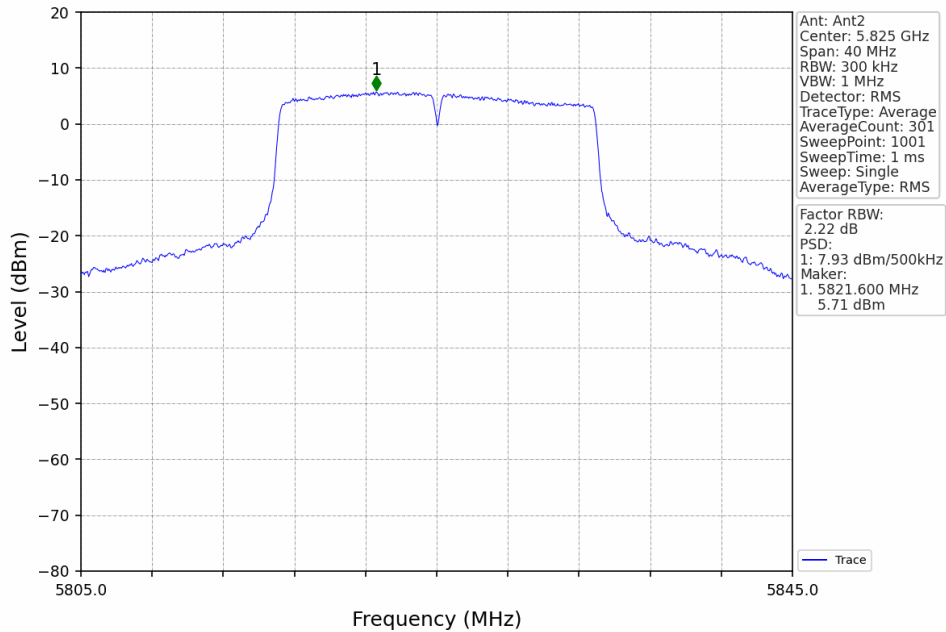
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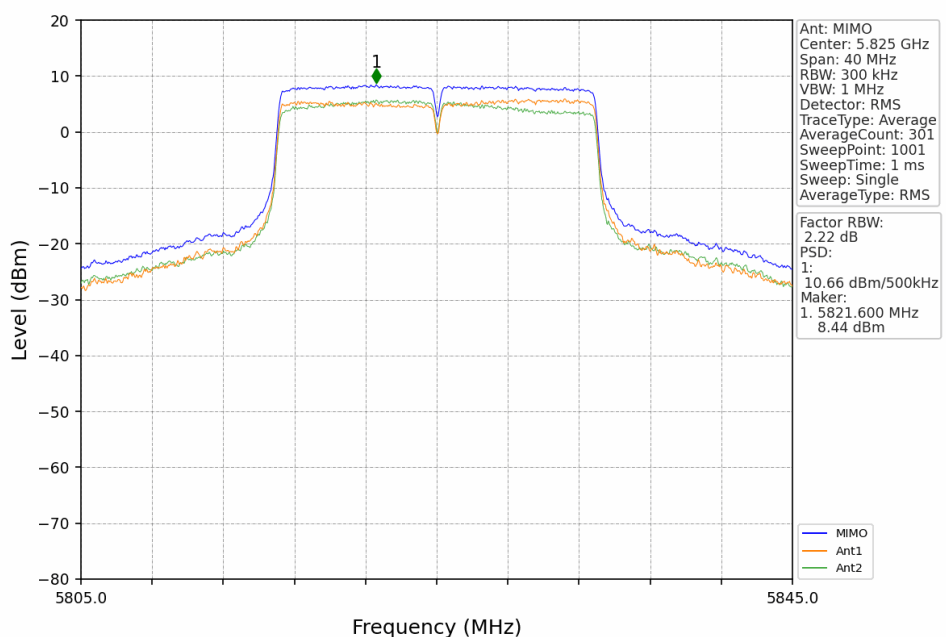
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802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5825MHz_MIMO_NTNV



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