

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.446	96.27	0.17	0.13
		5200	1.394	1.446	96.40	0.16	0.07
		5240	1.394	1.445	96.47	0.16	0.04
		5745	1.394	1.446	96.40	0.16	0.03
		5785	1.395	1.447	96.41	0.16	0.07
		5825	1.392	1.445	96.33	0.16	0.07
802.11n (HT20)	MIMO	5180	1.302	1.354	96.16	0.17	0.07
		5200	1.300	1.354	96.01	0.18	0.03
		5240	1.302	1.354	96.16	0.17	0.04
		5745	1.303	1.354	96.23	0.17	0.03
		5785	1.303	1.354	96.23	0.17	0.00
		5825	1.302	1.354	96.16	0.17	0.03
802.11n (HT40)	MIMO	5190	0.650	0.701	92.72	0.33	0.03
		5230	0.650	0.701	92.72	0.33	0.03
		5755	0.649	0.701	92.58	0.33	0.03
		5795	0.650	0.702	92.59	0.33	0.03
802.11ac (VHT20)	MIMO	5180	1.314	1.366	96.19	0.17	0.07
		5200	1.314	1.366	96.19	0.17	0.04
		5240	1.314	1.366	96.19	0.17	0.10
		5745	1.315	1.366	96.27	0.17	0.03
		5785	1.314	1.366	96.19	0.17	0.03
		5825	1.312	1.366	96.05	0.18	0.07
802.11ac (VHT40)	MIMO	5190	0.653	0.704	92.76	0.33	0.03
		5230	0.654	0.705	92.77	0.33	0.04
		5755	0.654	0.705	92.77	0.33	0.03
		5795	0.654	0.705	92.77	0.33	0.03
802.11ac	MIMO	5210	0.325	0.377	86.21	0.64	0.07



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Compliance Certification Services (Kunshan) Inc.

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(VHT80)		5775	0.325	0.376	86.44	0.63	0.04
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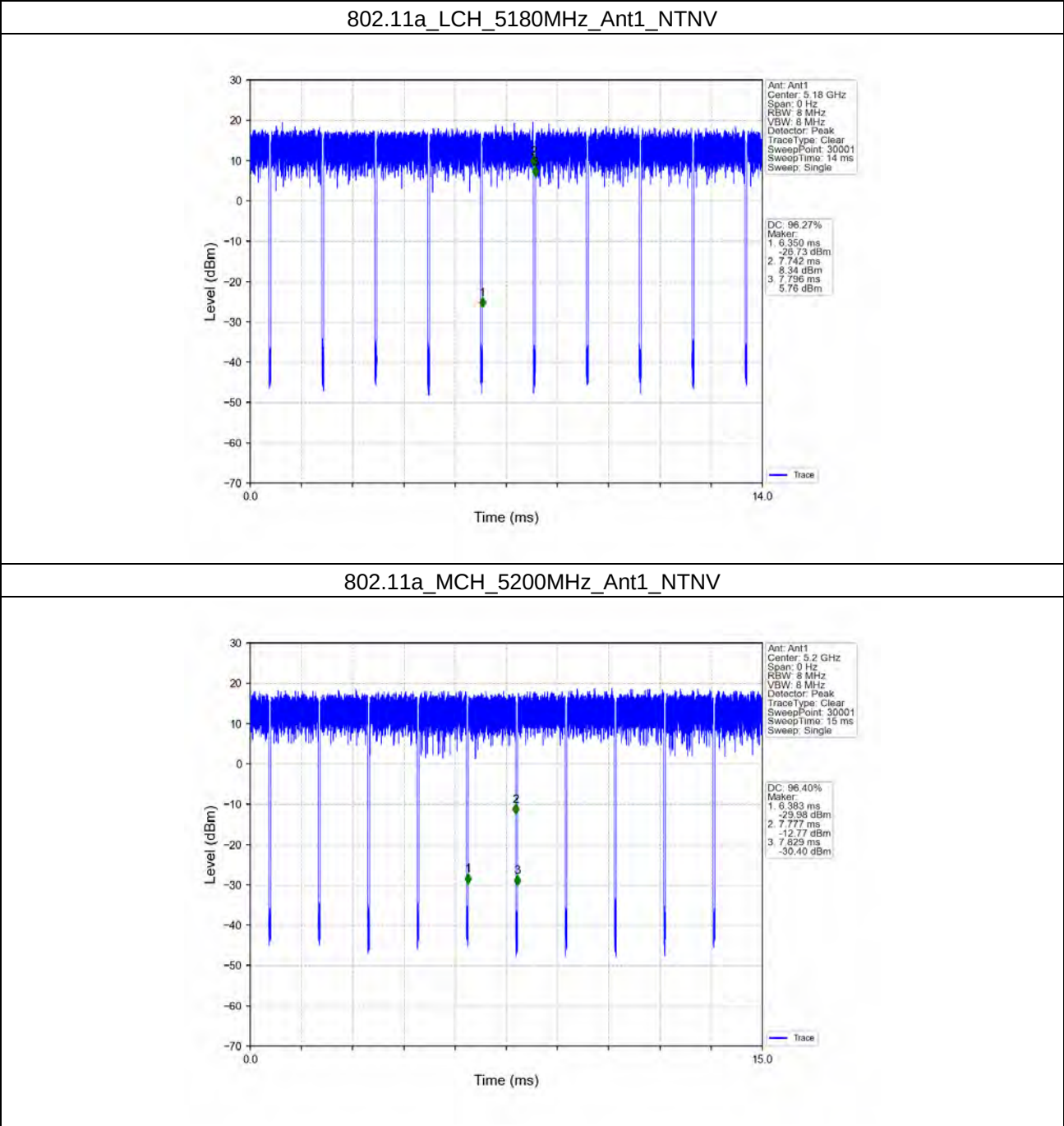
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1.1.2 Test Graph



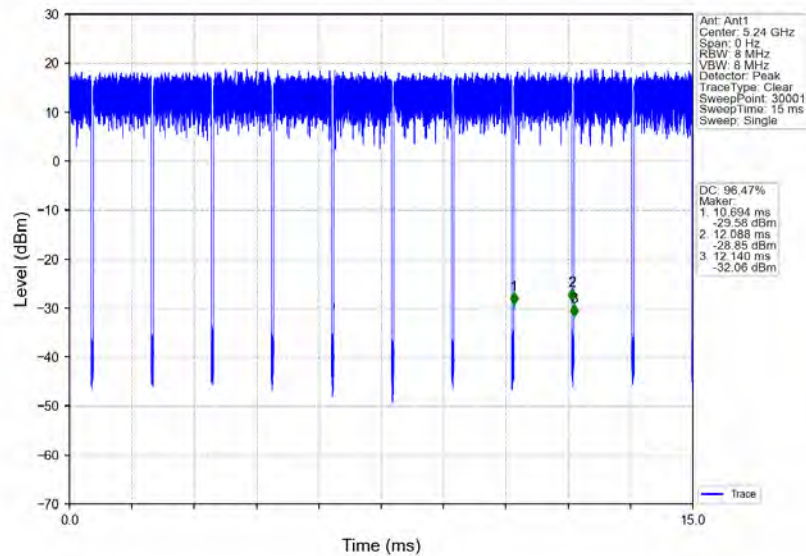
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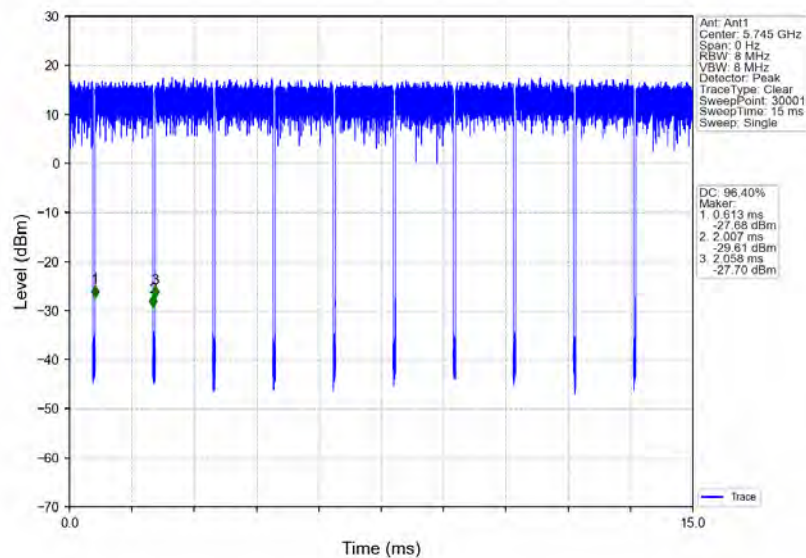
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802.11a_LCH_5745MHz_Ant1_NTNV



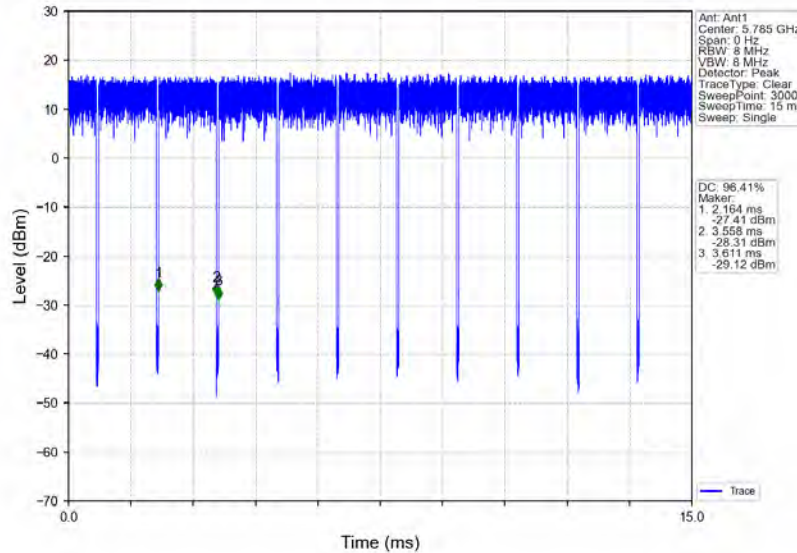
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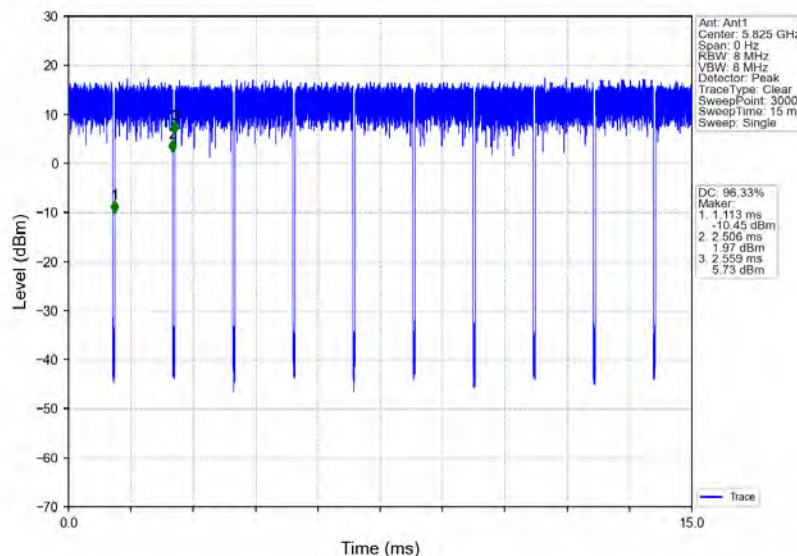
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802.11a_HCH_5825MHz_Ant1_NTNV



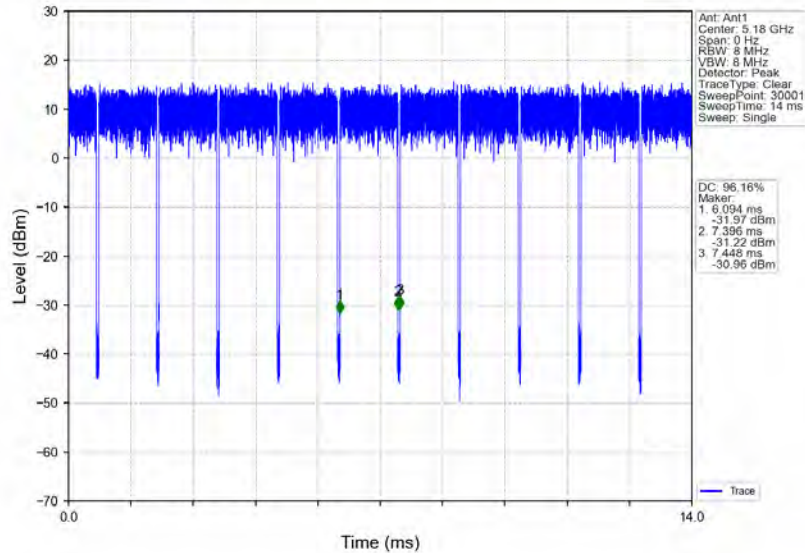
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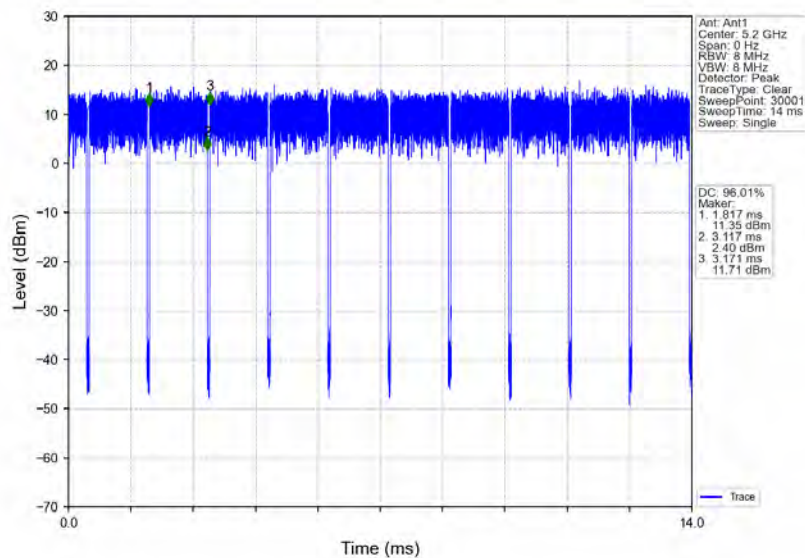
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



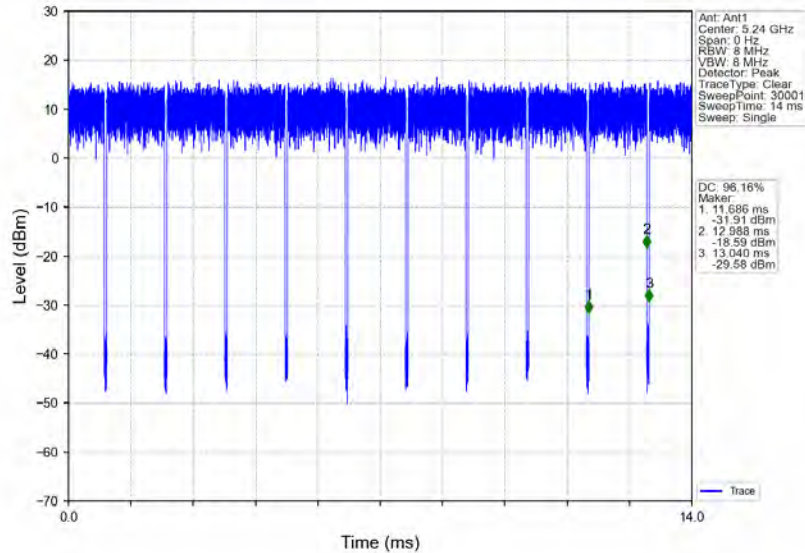
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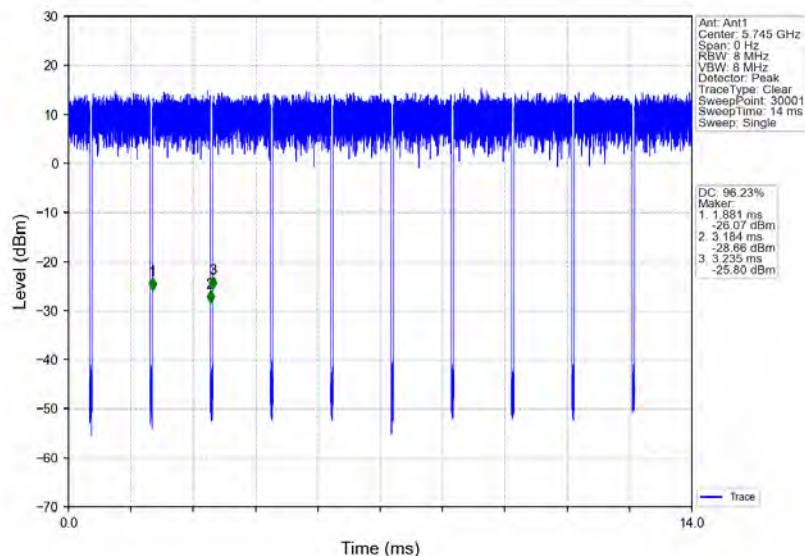
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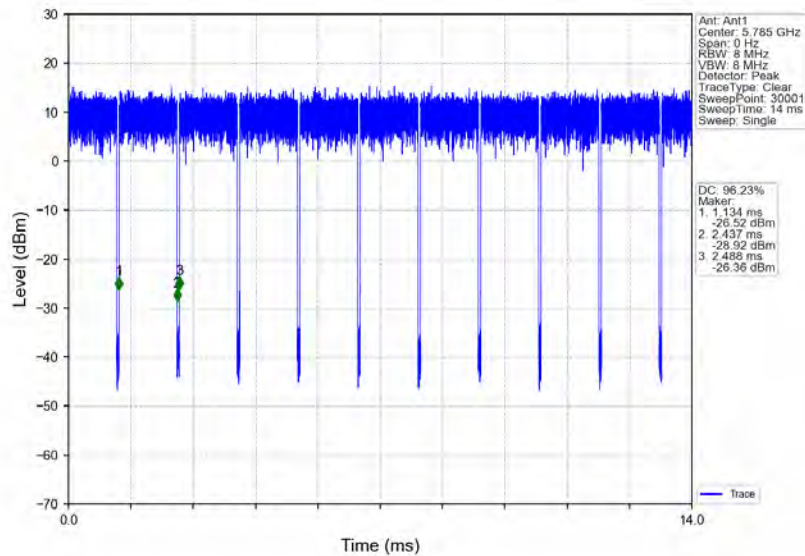
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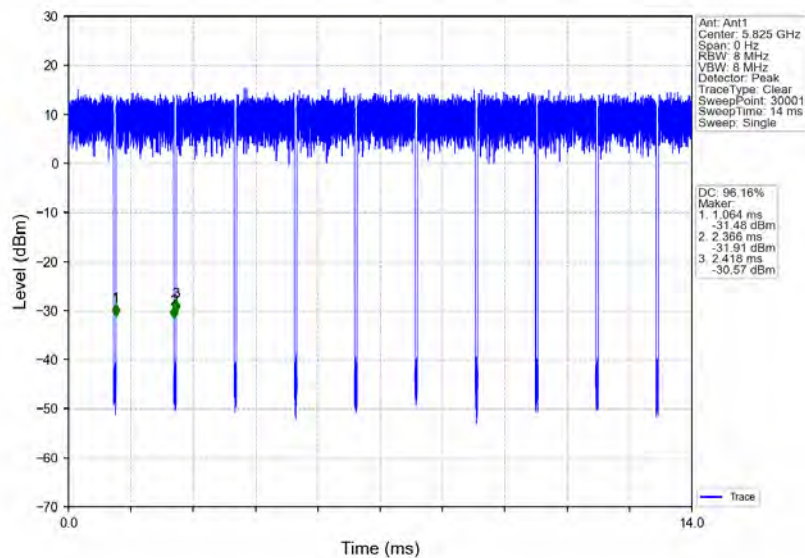
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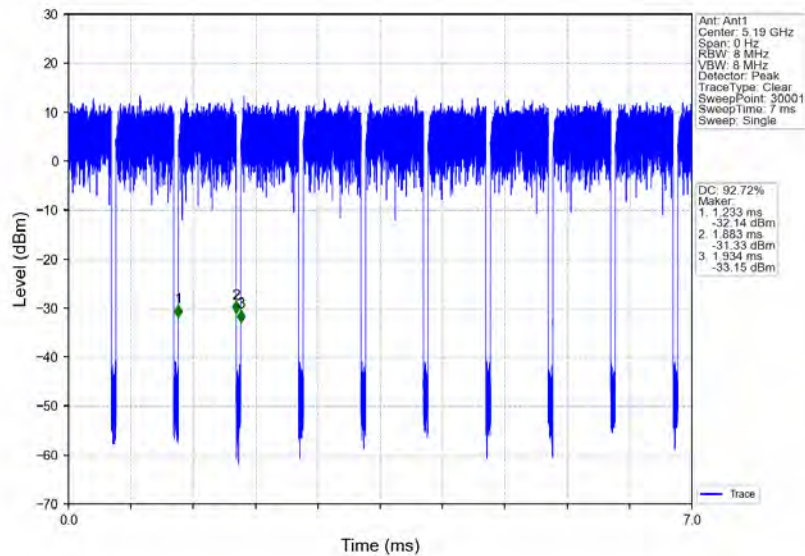
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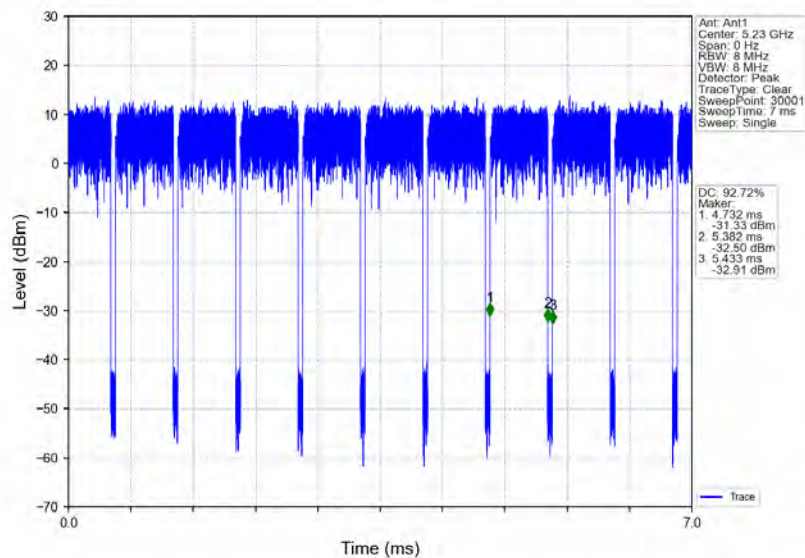
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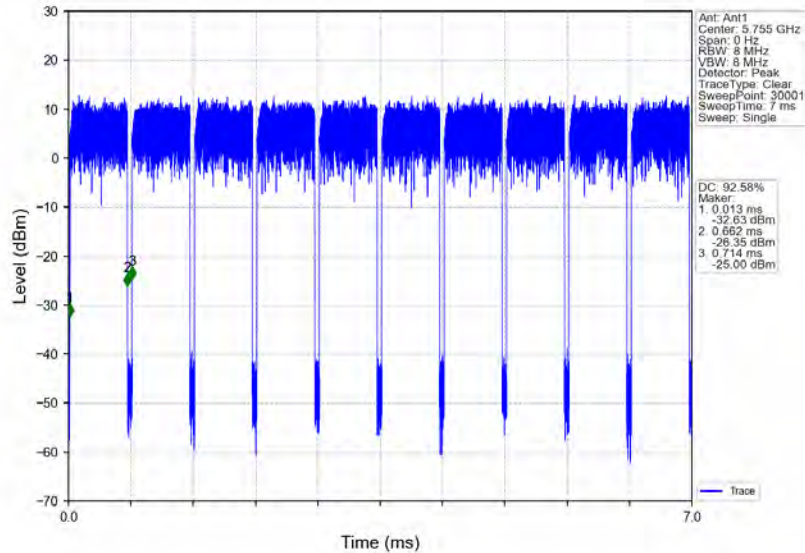
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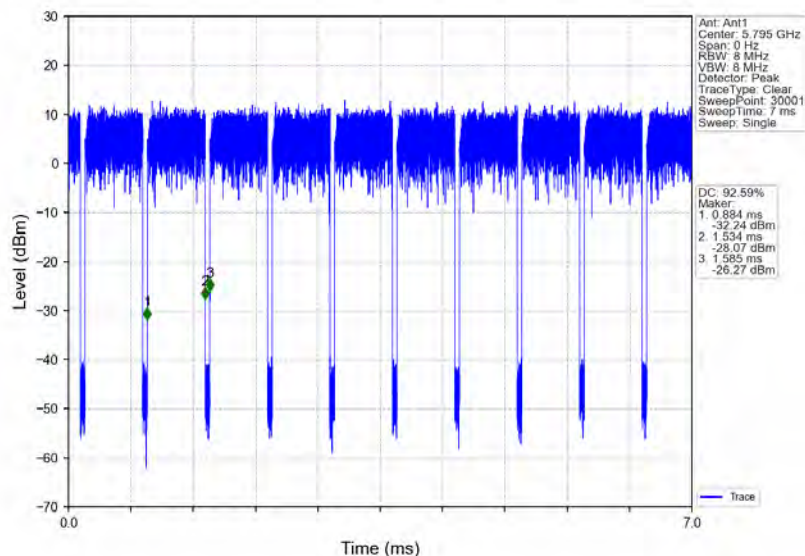
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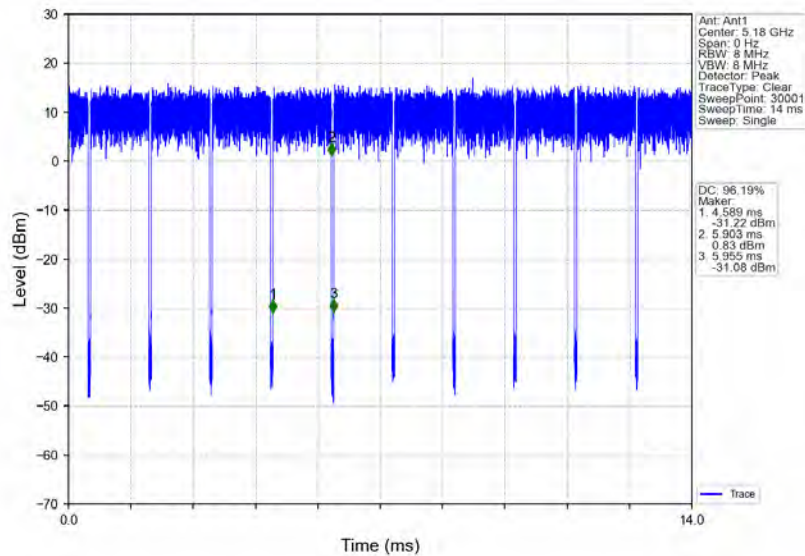
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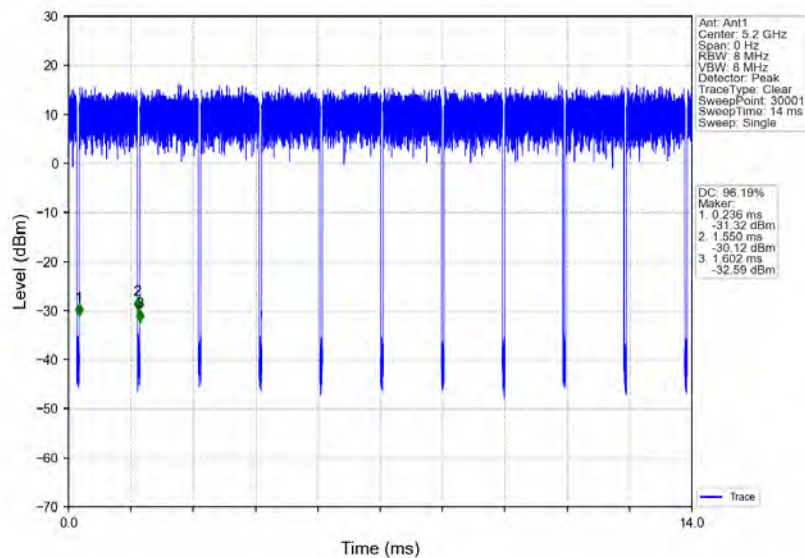
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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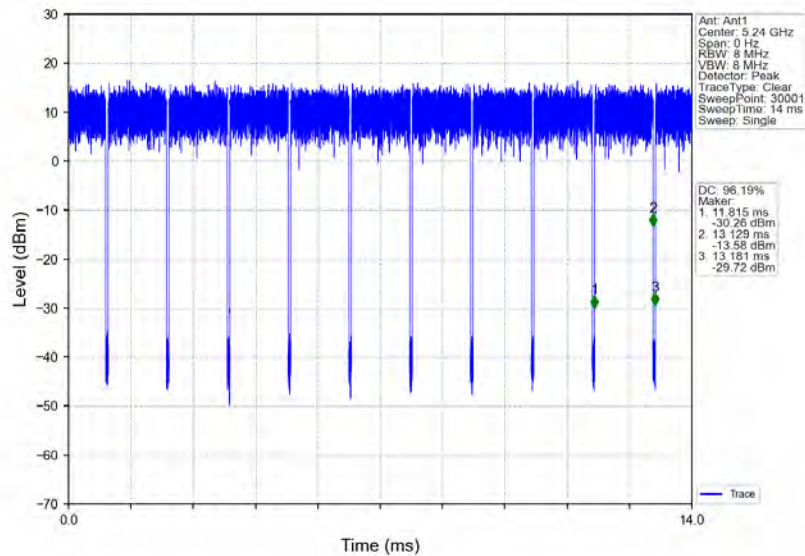
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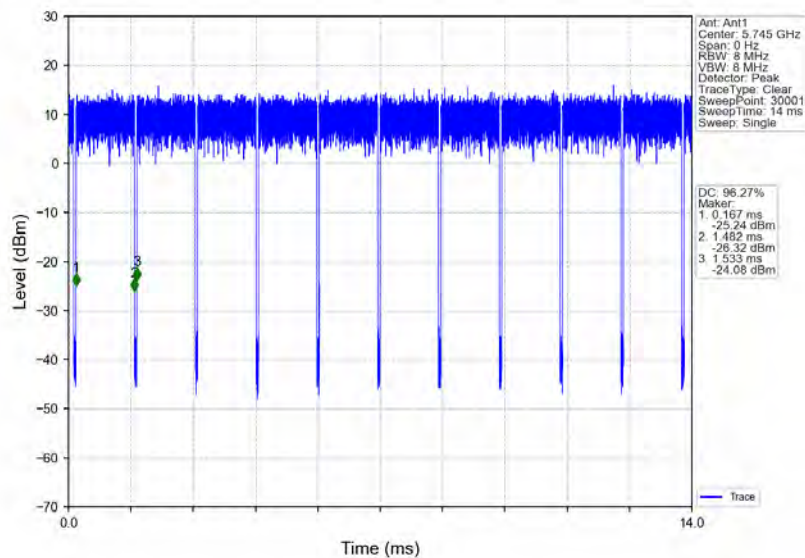
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



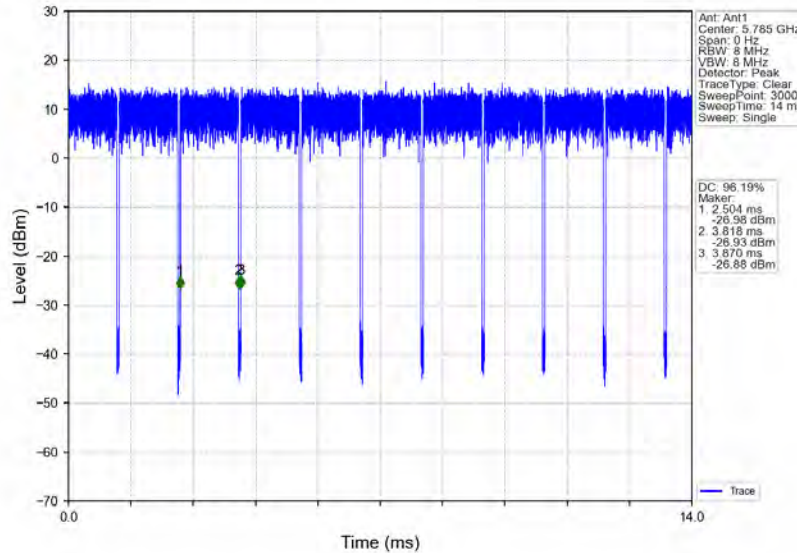
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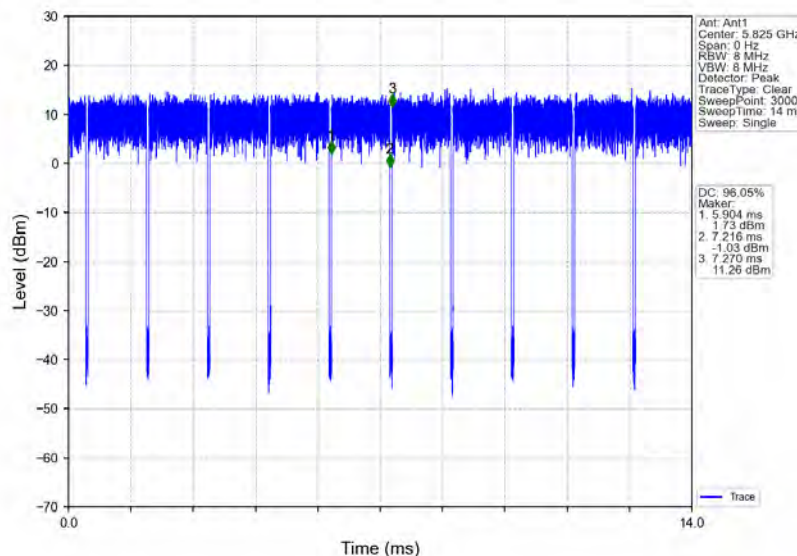
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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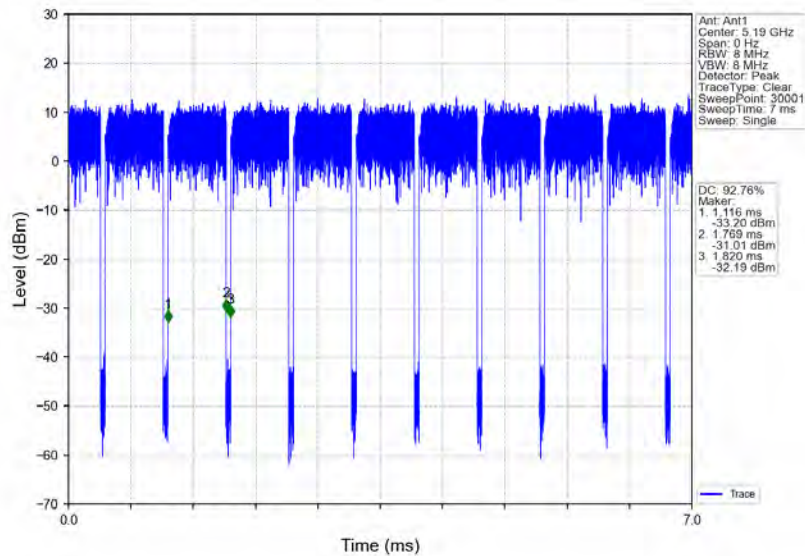
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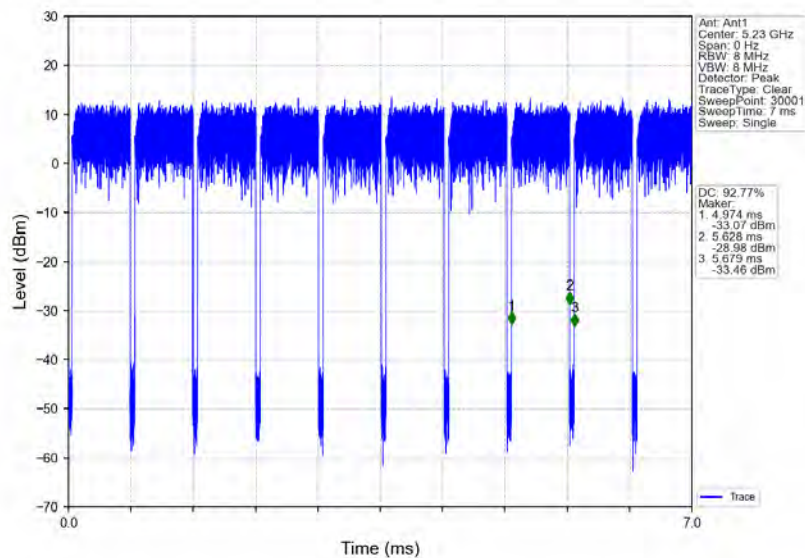
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



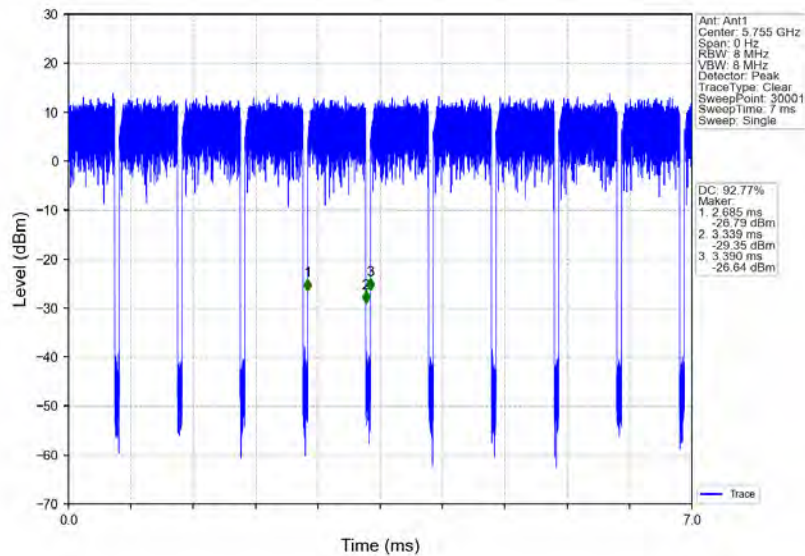
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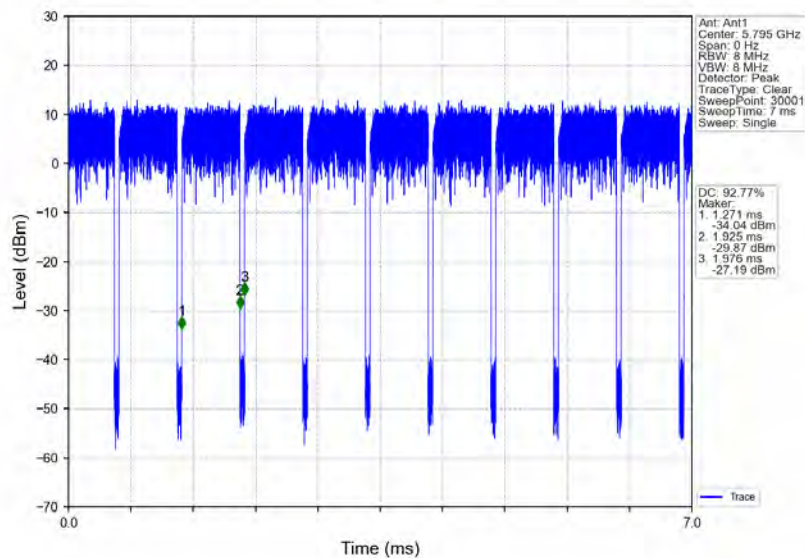
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



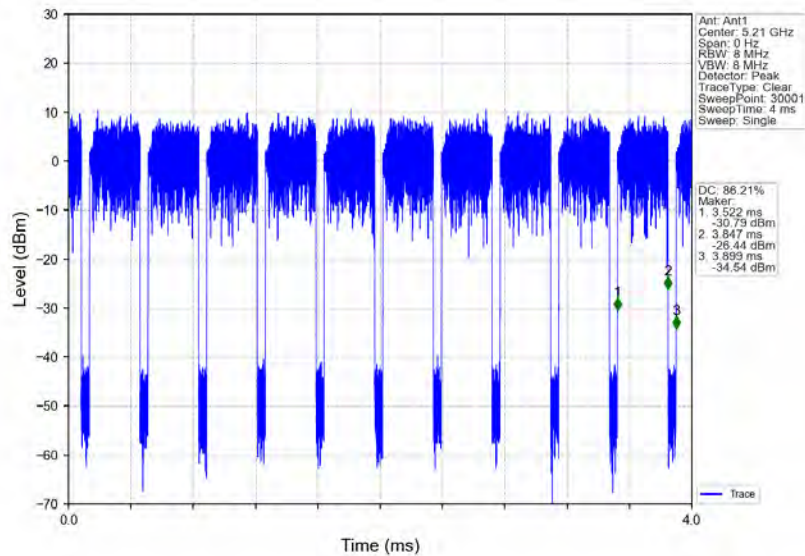
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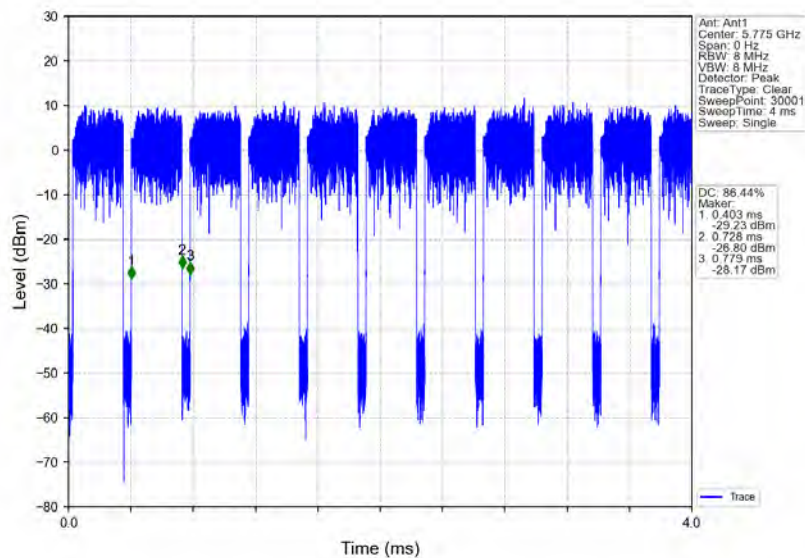
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157005

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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.343	Pass
			2	16.964	Pass
		5200	1	18.089	Pass
			2	16.968	Pass
		5240	1	18.324	Pass
			2	17.043	Pass
		5745	1	18.945	Pass
			2	18.313	Pass
		5785	1	18.458	Pass
			2	17.798	Pass
		5825	1	18.035	Pass
			2	17.439	Pass
802.11n (HT20)	MIMO	5180	1	18.110	Pass
			2	17.746	Pass
		5200	1	18.388	Pass
			2	17.744	Pass
		5240	1	18.447	Pass
			2	17.759	Pass
		5745	1	18.565	Pass
			2	18.023	Pass
		5785	1	18.433	Pass
			2	17.979	Pass
		5825	1	18.308	Pass
			2	17.902	Pass
802.11n (HT40)	MIMO	5190	1	36.271	Pass
			2	36.507	Pass
		5230	1	36.358	Pass
			2	36.459	Pass
		5755	1	36.559	Pass
			2	36.803	Pass
		5795	1	36.621	Pass
			2	36.621	Pass



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Compliance Certification Services (Kunshan) Inc.

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			2	36.789	Pass
802.11ac (VHT20)	MIMO	5180	1	18.097	Pass
			2	17.756	Pass
		5200	1	18.403	Pass
			2	17.757	Pass
		5240	1	18.476	Pass
			2	17.767	Pass
		5745	1	18.520	Pass
			2	18.087	Pass
		5785	1	18.420	Pass
			2	17.998	Pass
		5825	1	18.355	Pass
			2	17.876	Pass
802.11ac (VHT40)	MIMO	5190	1	36.227	Pass
			2	36.522	Pass
		5230	1	36.378	Pass
			2	36.352	Pass
		5755	1	36.631	Pass
			2	36.894	Pass
		5795	1	36.599	Pass
			2	36.688	Pass
802.11ac (VHT80)	MIMO	5210	1	75.851	Pass
			2	75.440	Pass
		5775	1	75.931	Pass
			2	75.751	Pass



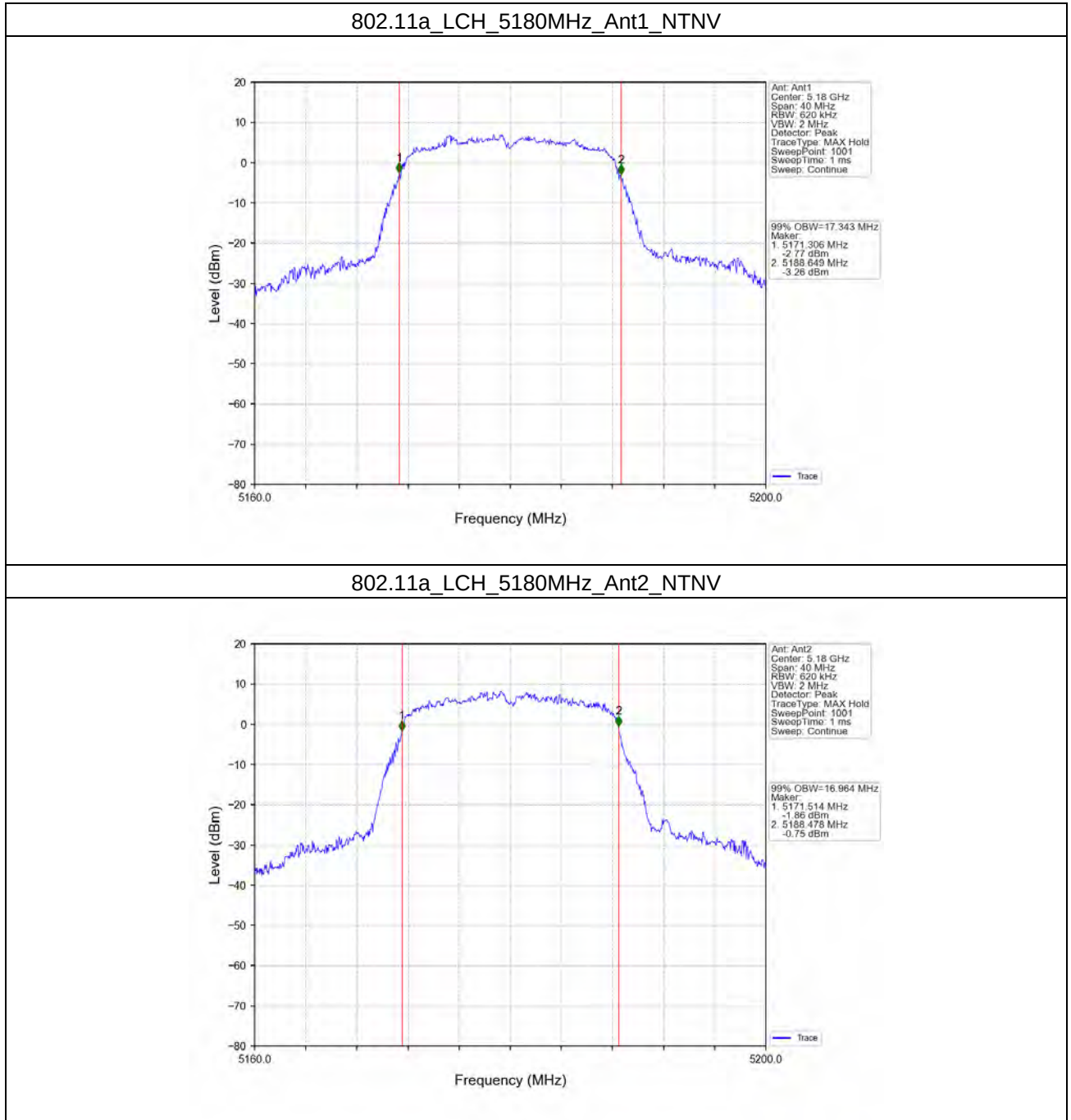
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2.1.2 Test Graph



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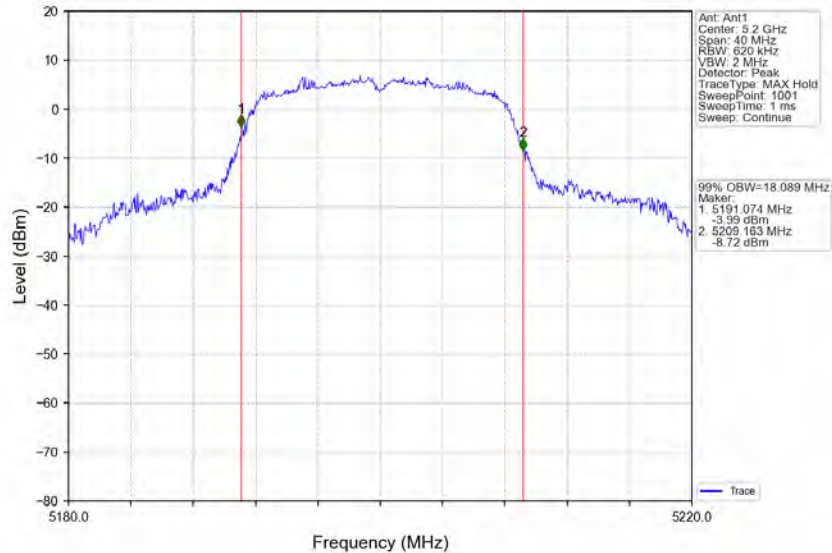
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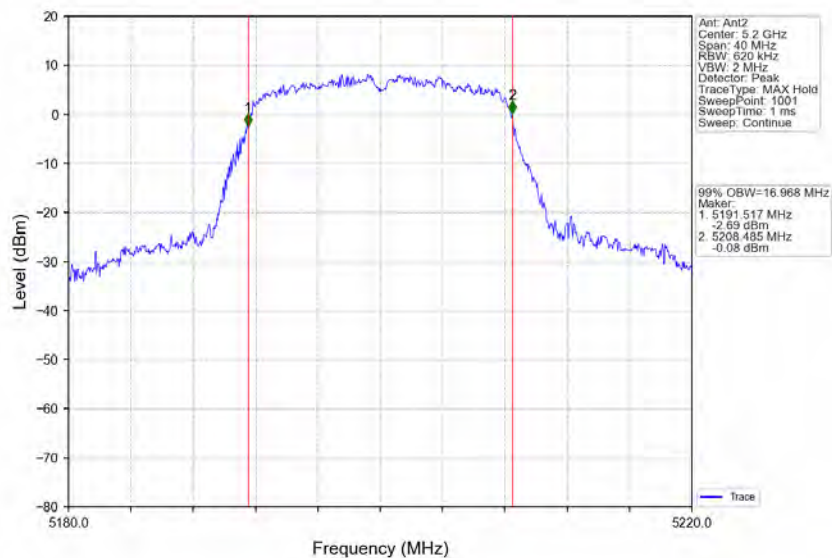
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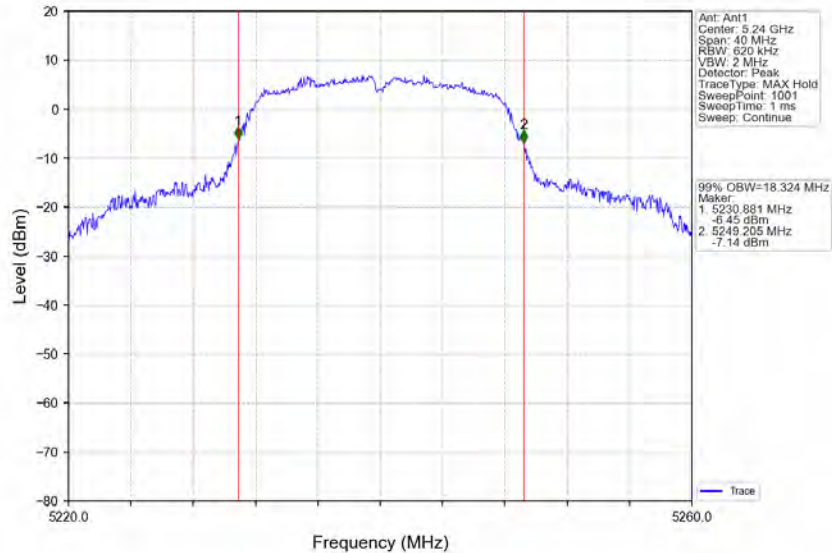
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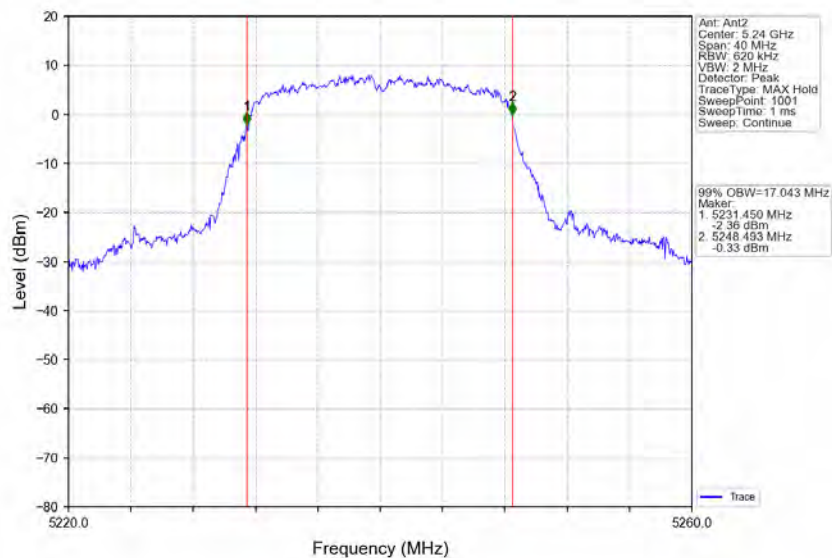
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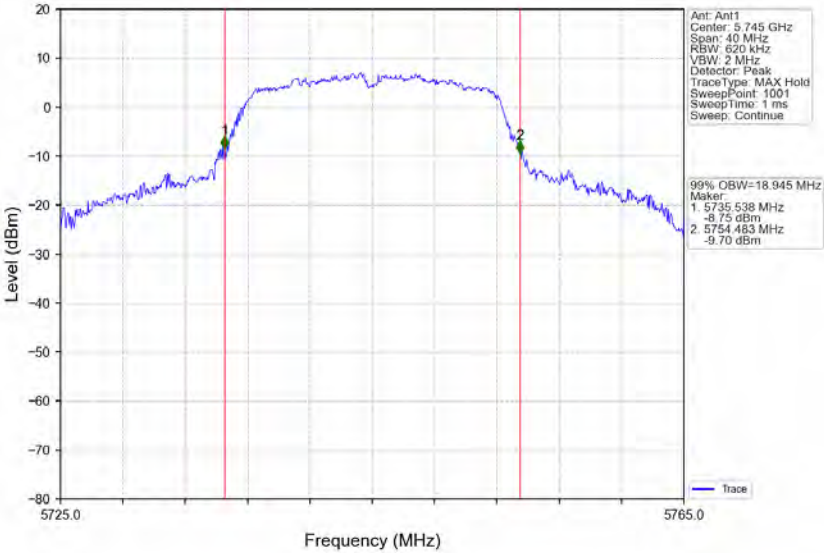
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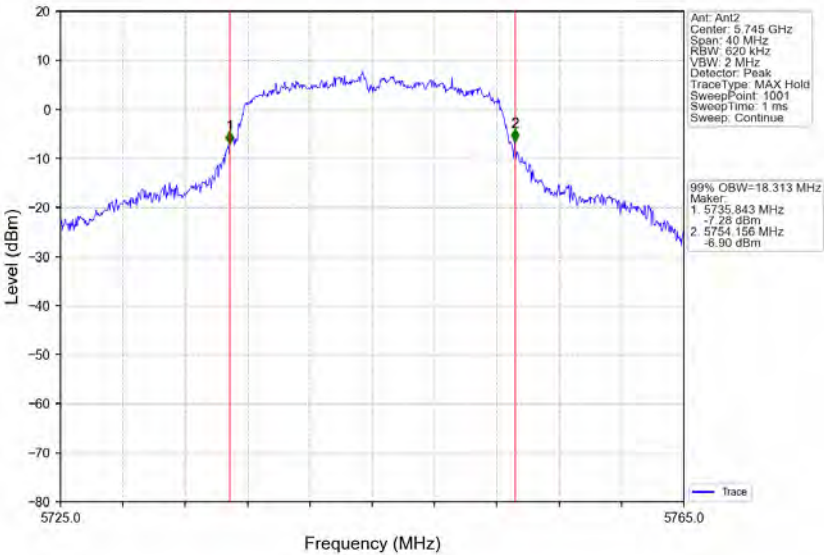
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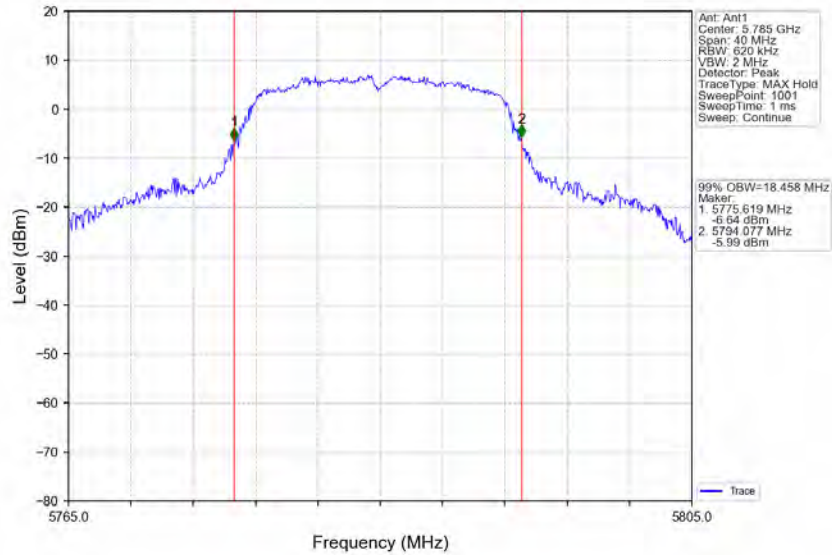
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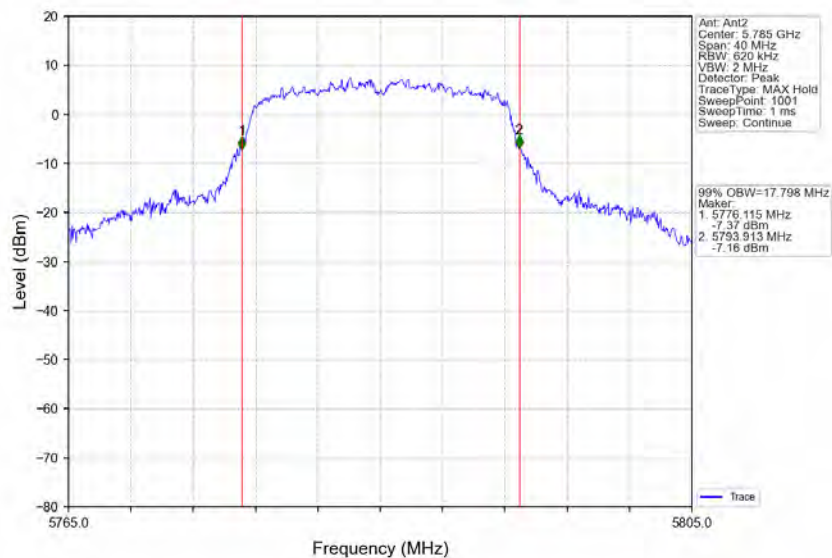
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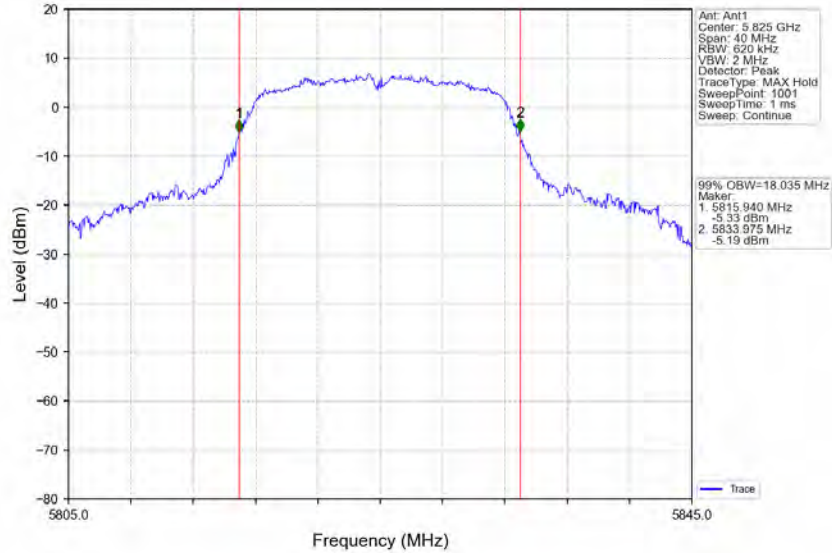
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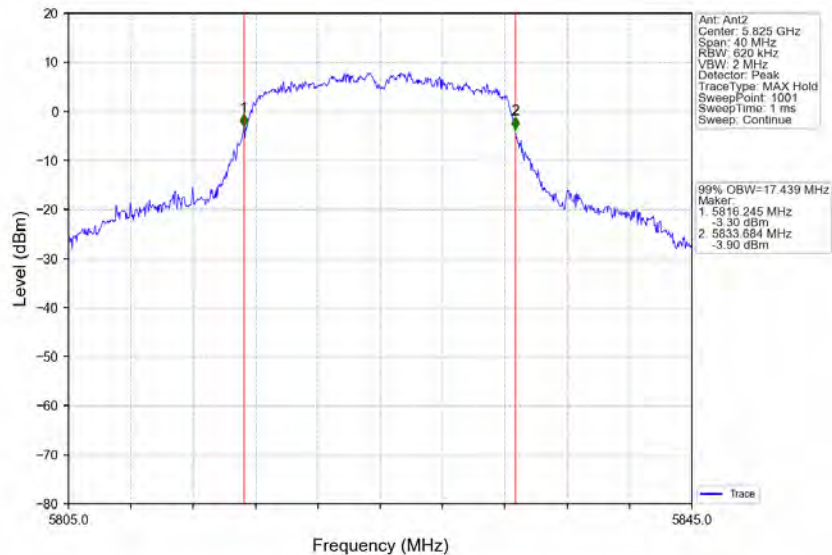
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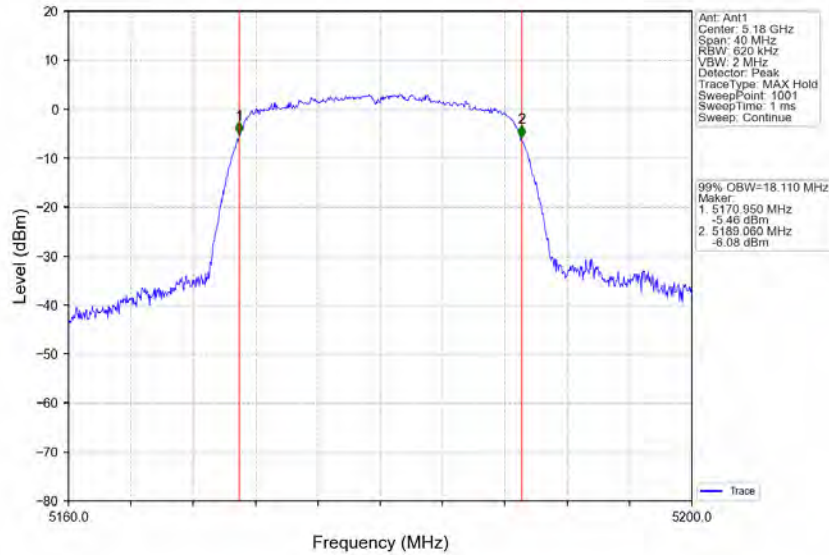
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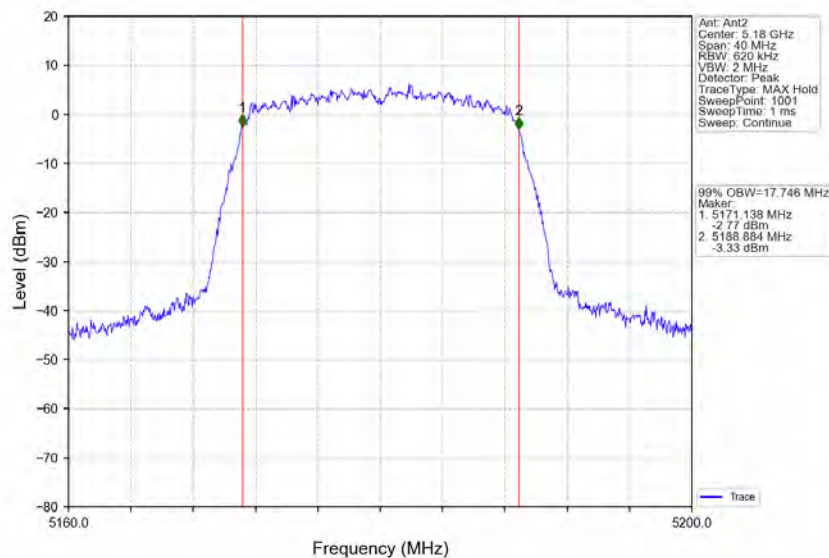
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802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



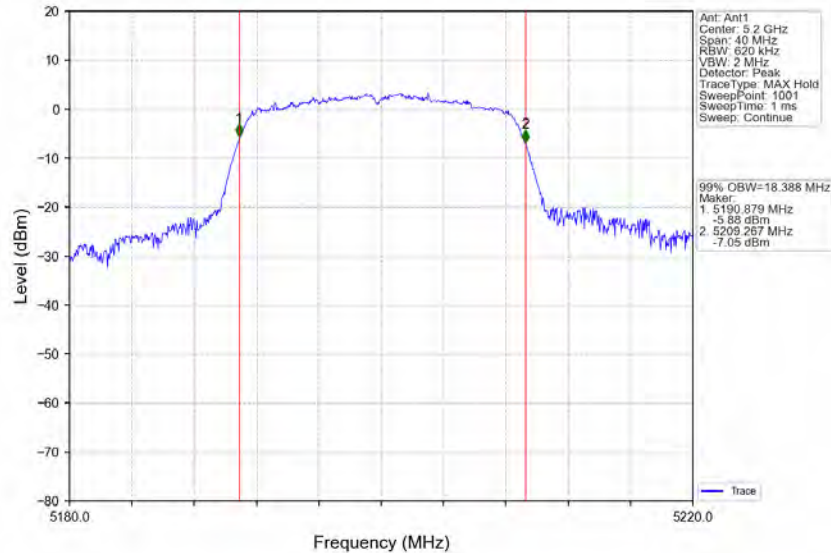
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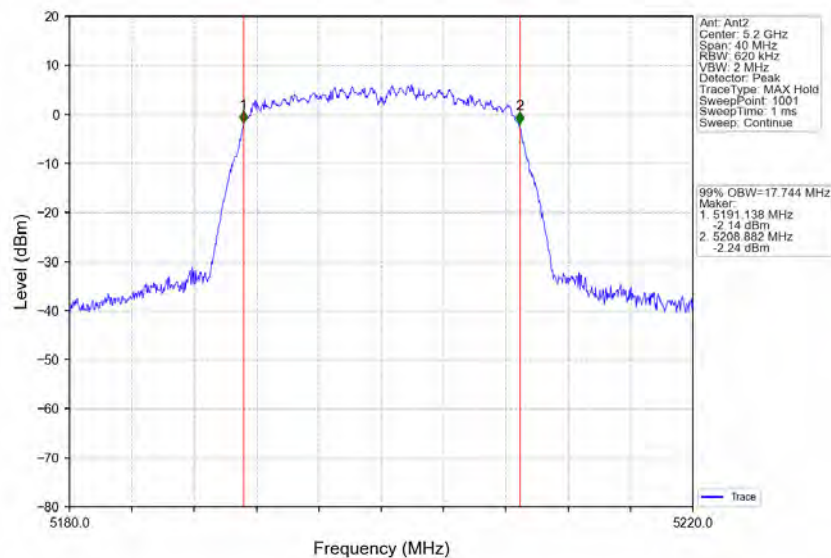
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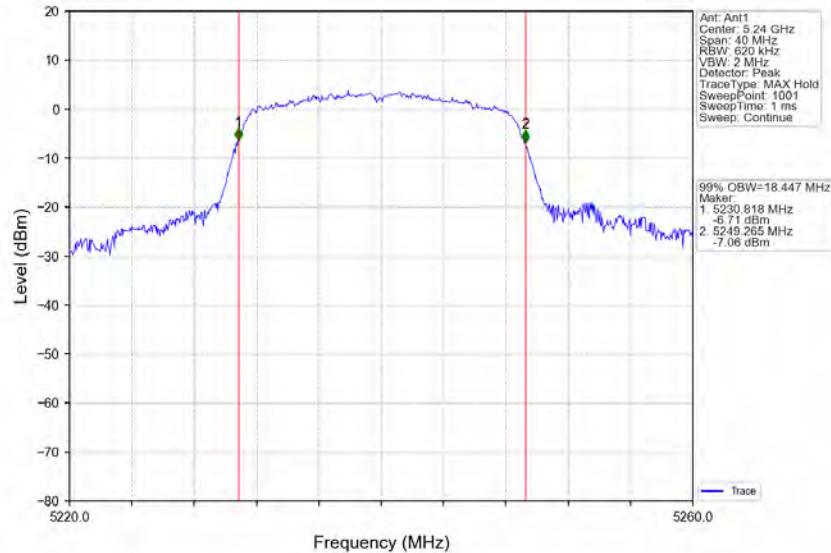
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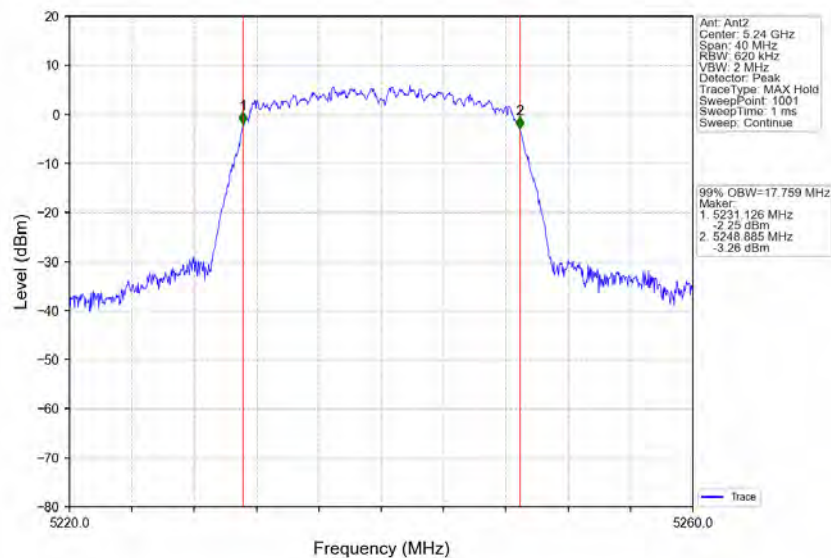
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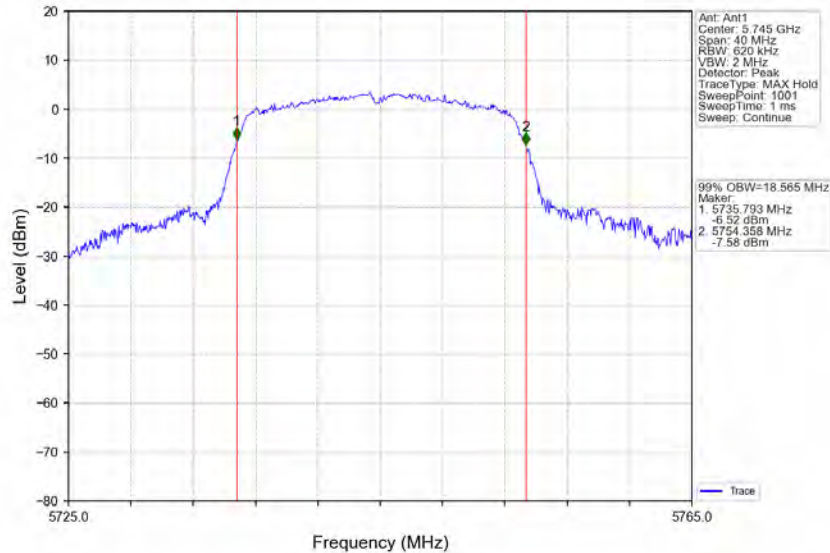
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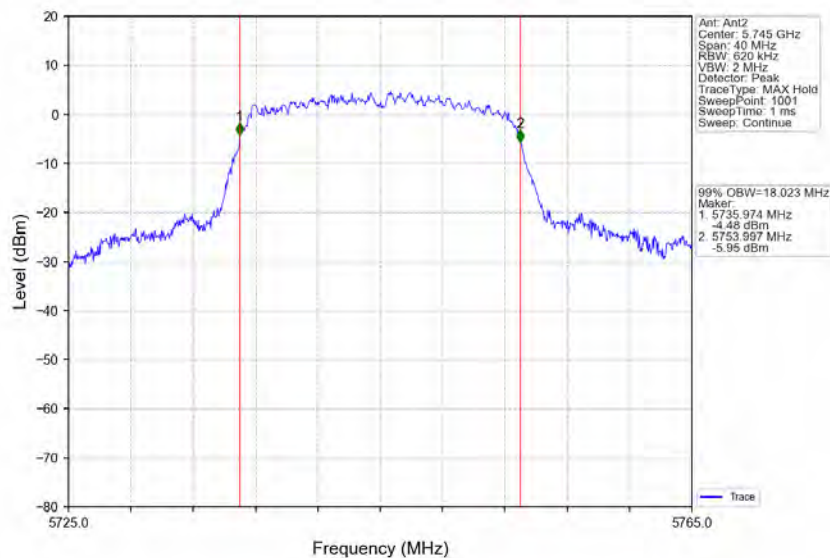
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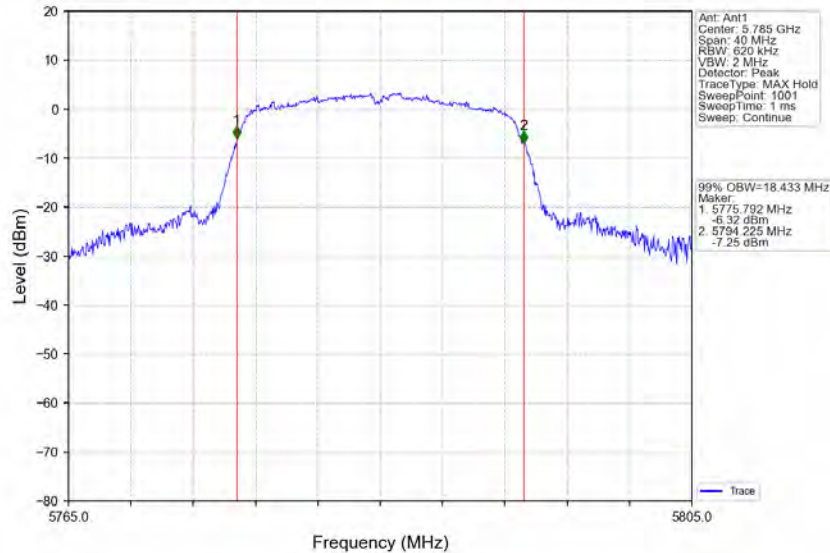
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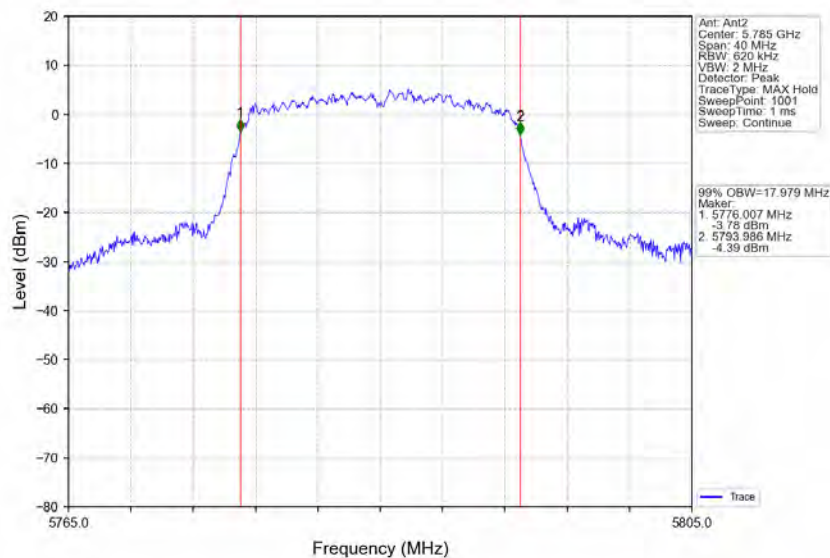
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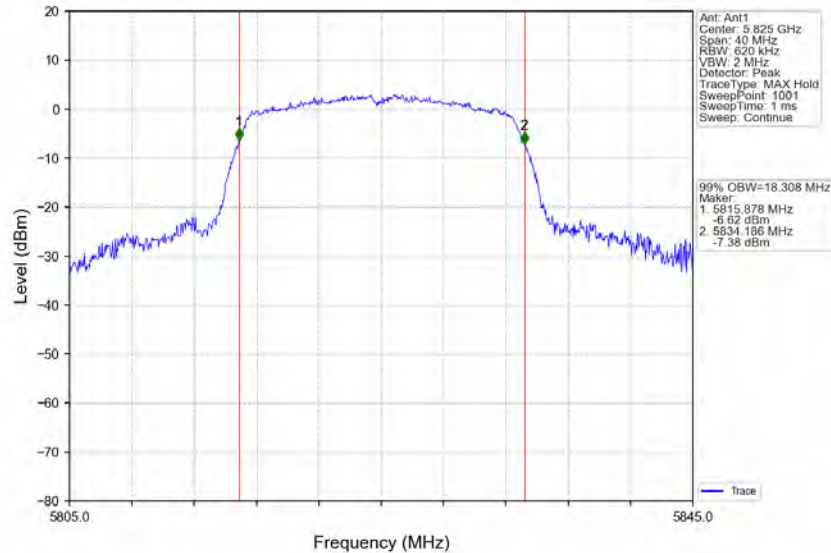
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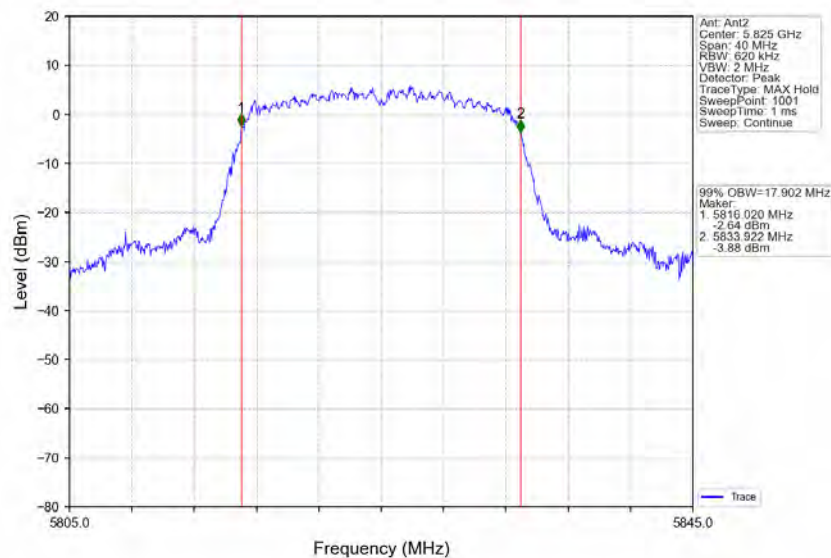
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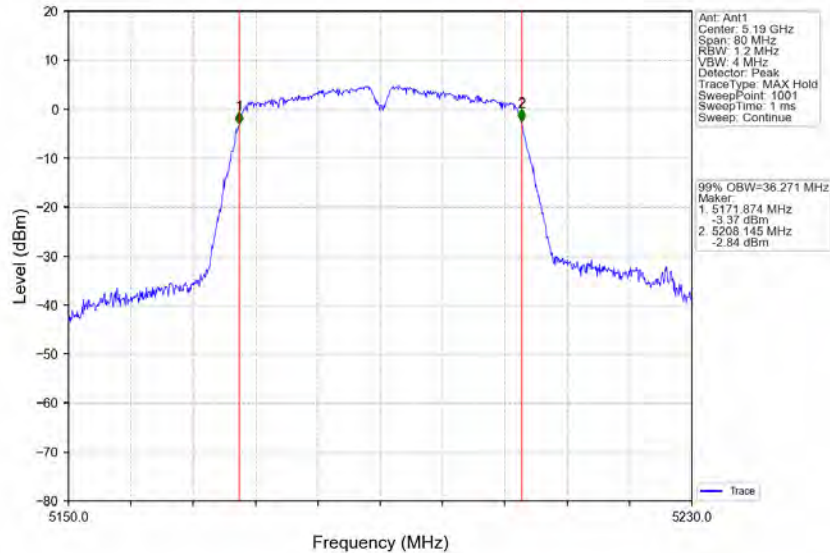
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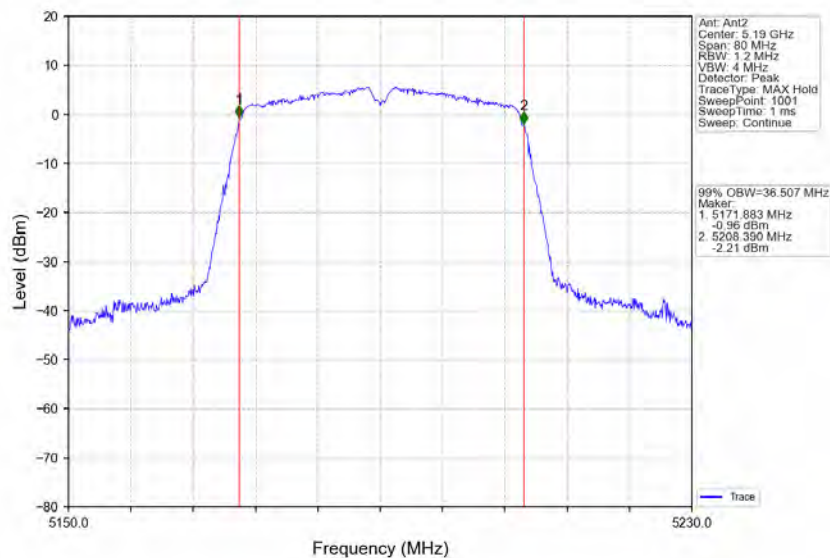
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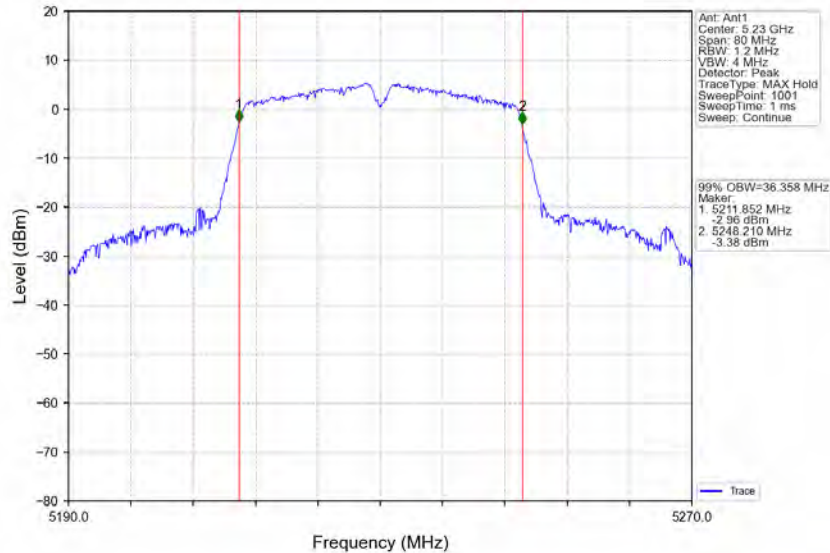
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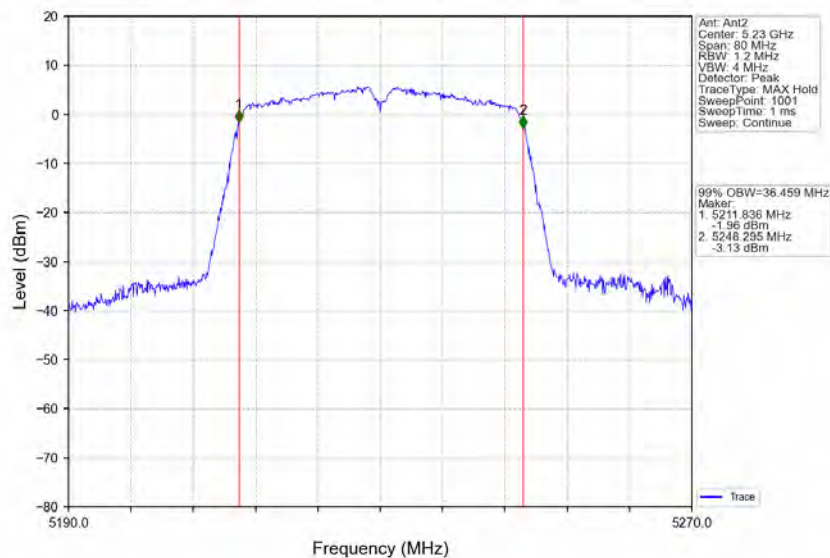
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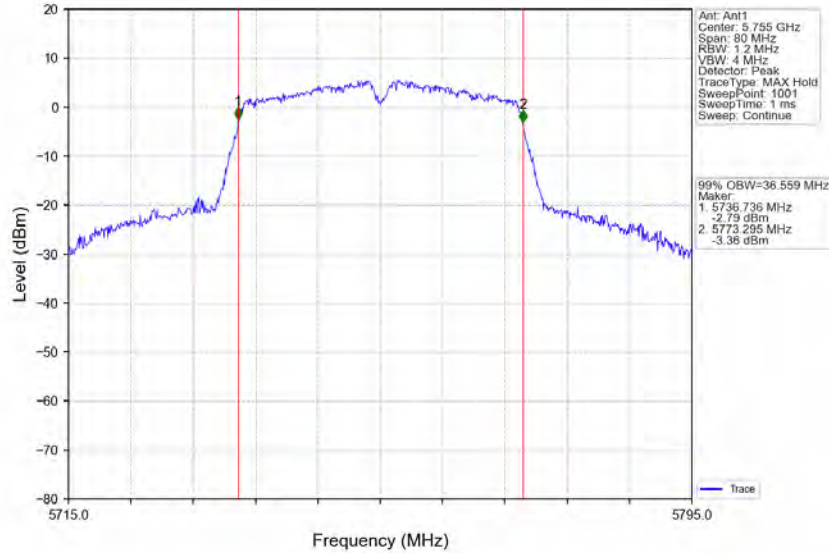
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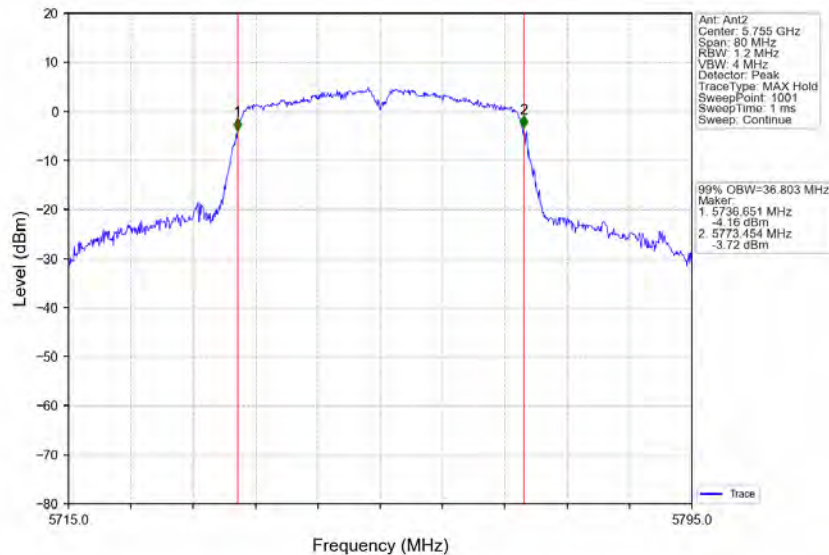
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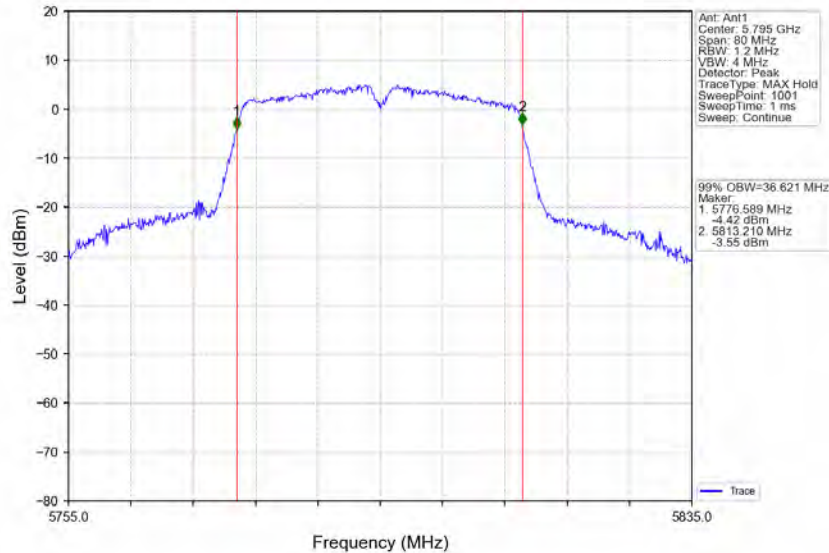
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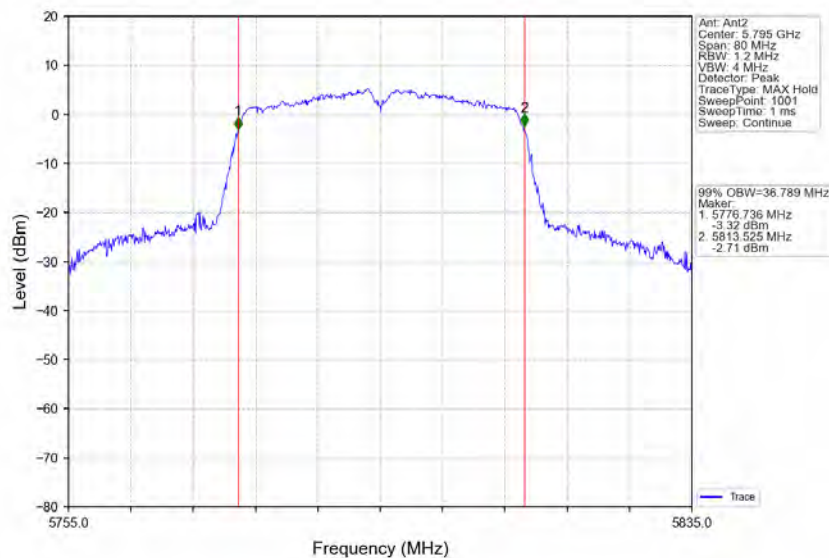
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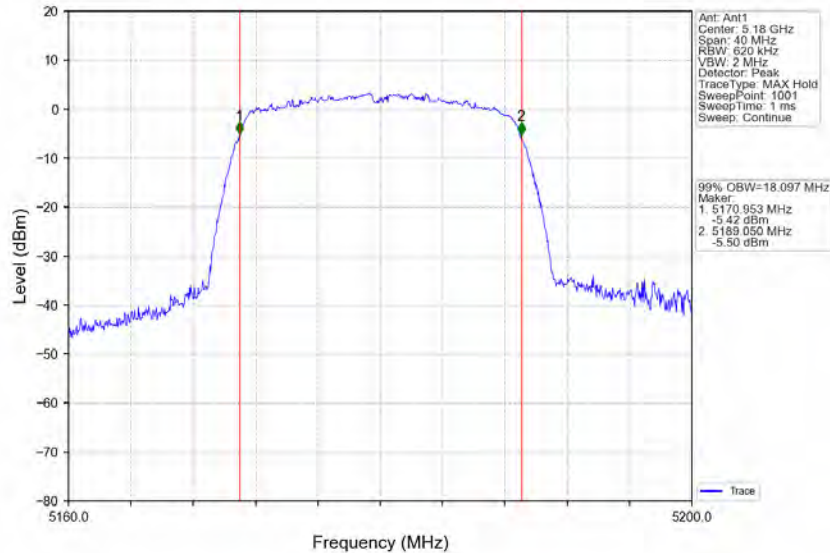
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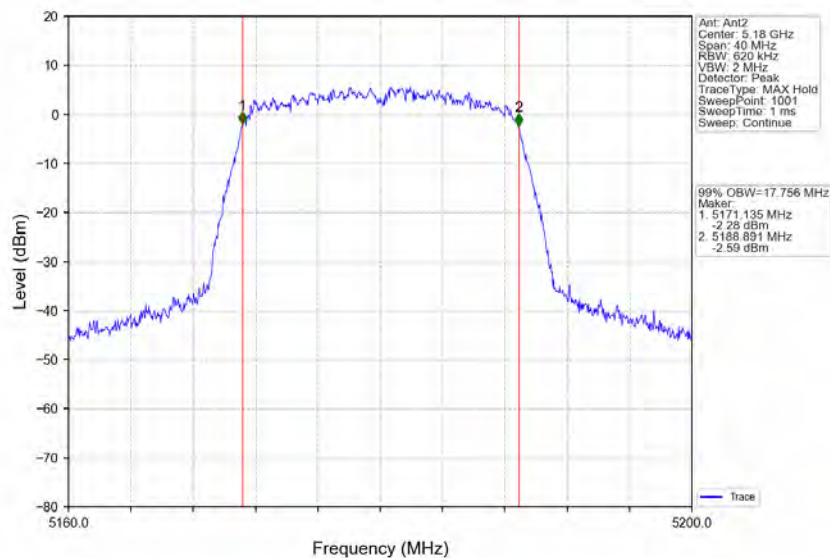
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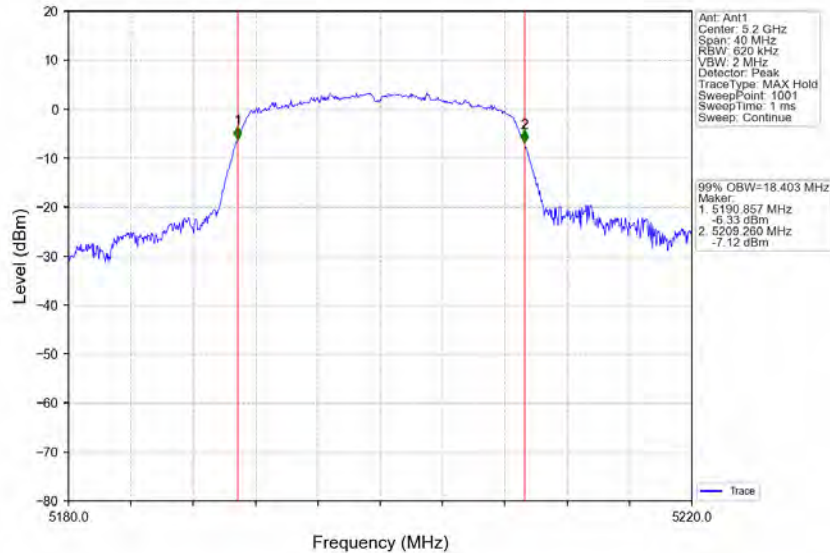
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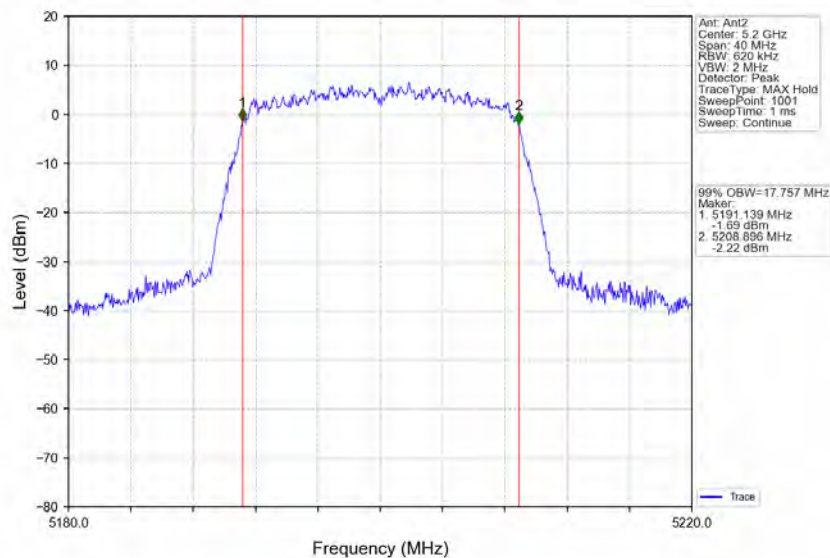
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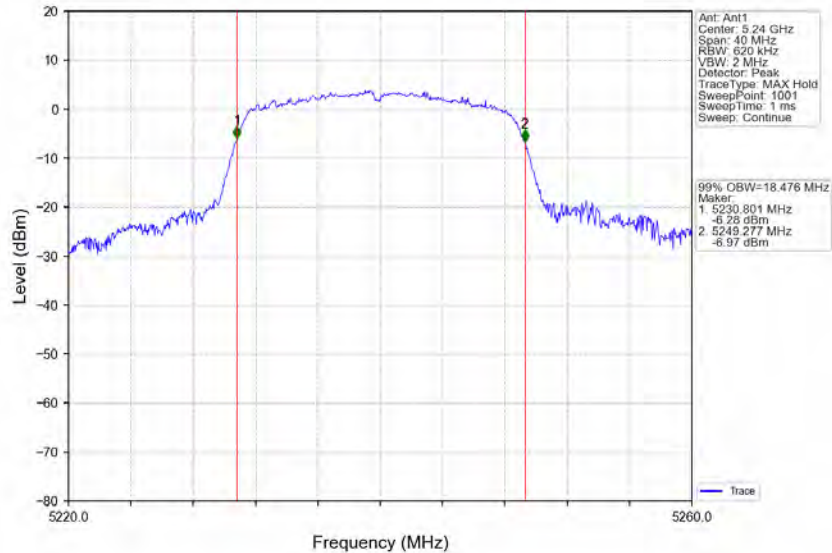
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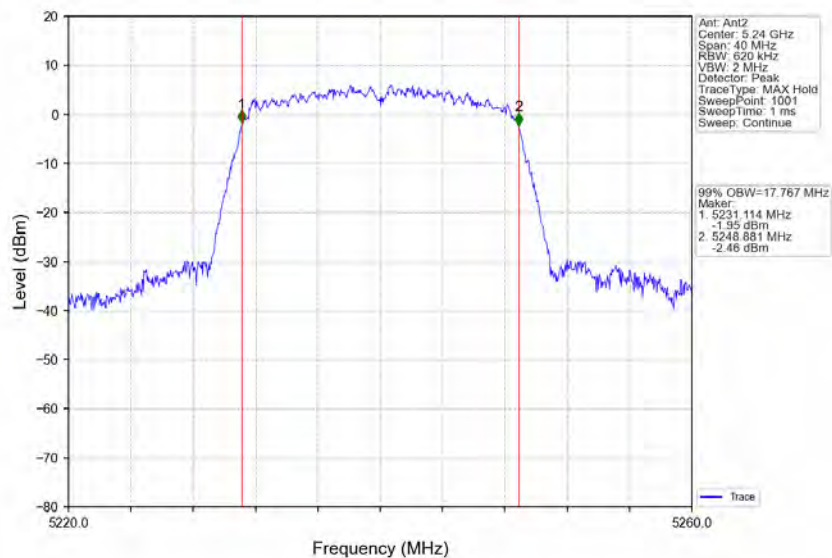
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



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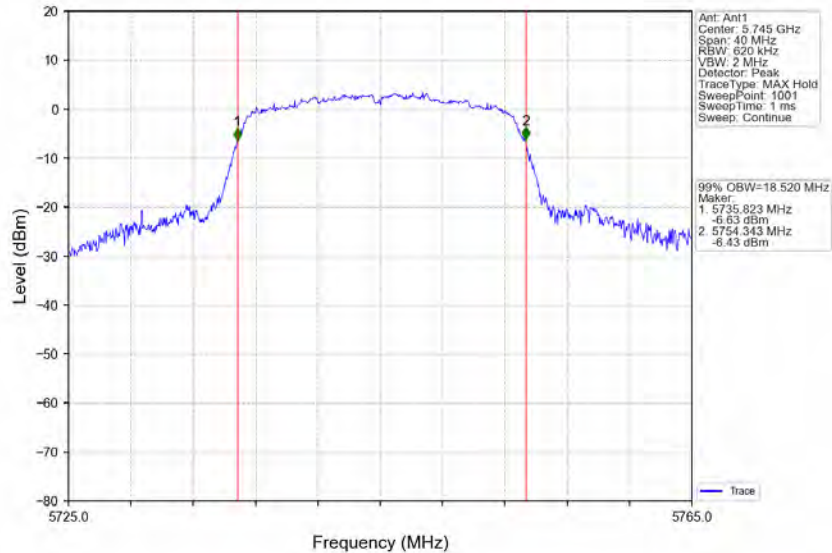
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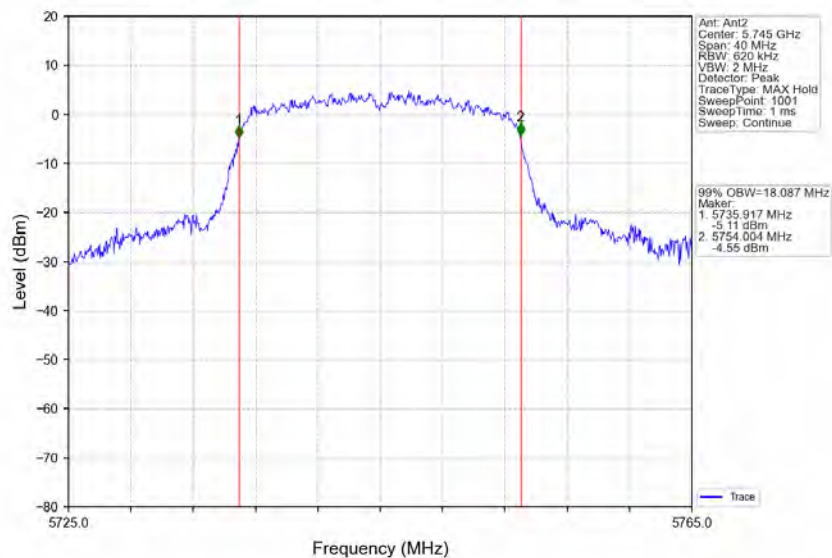
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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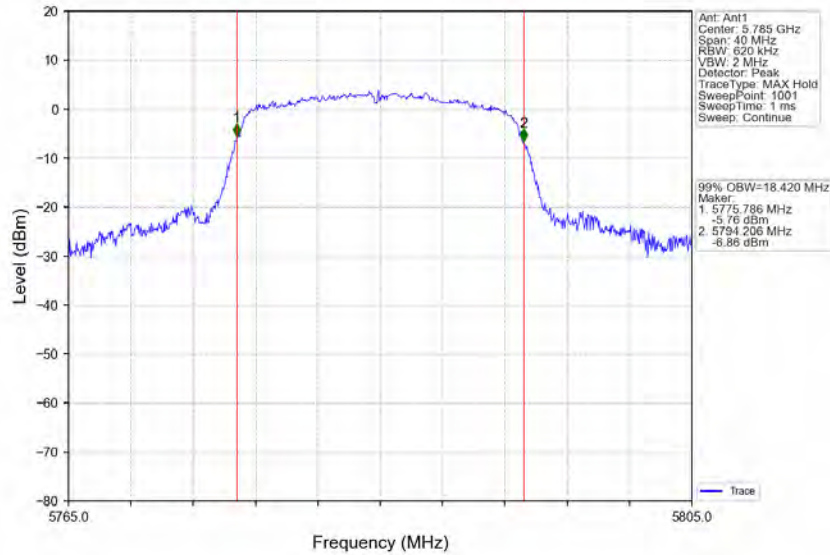
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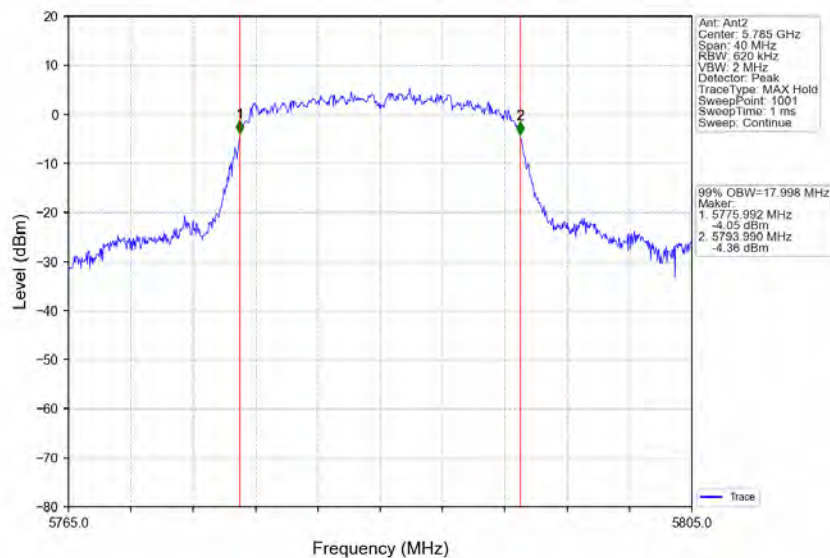
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



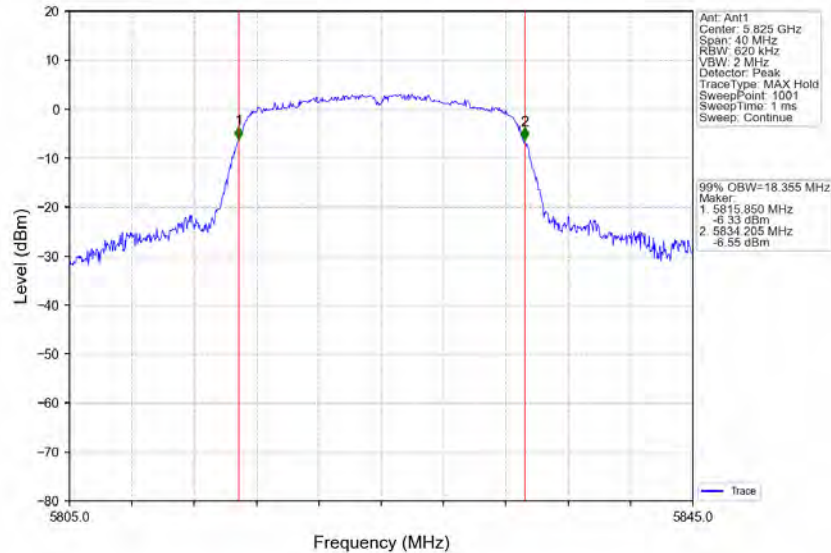
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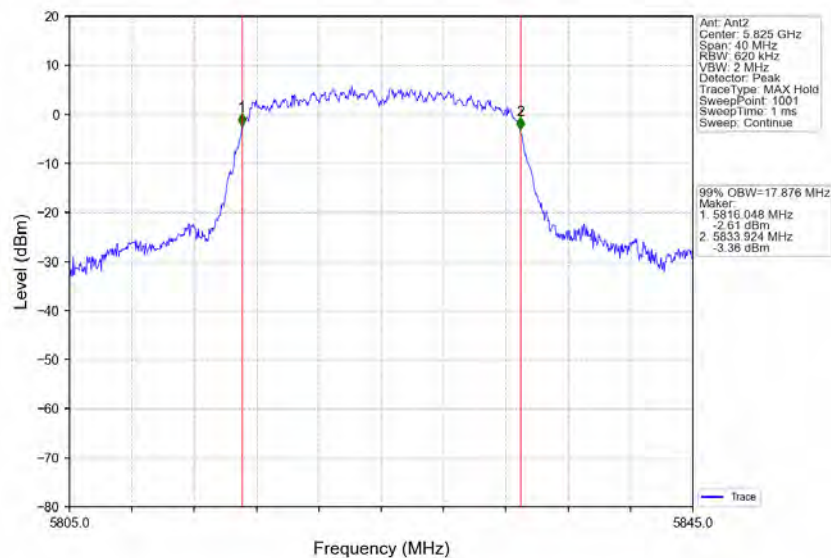
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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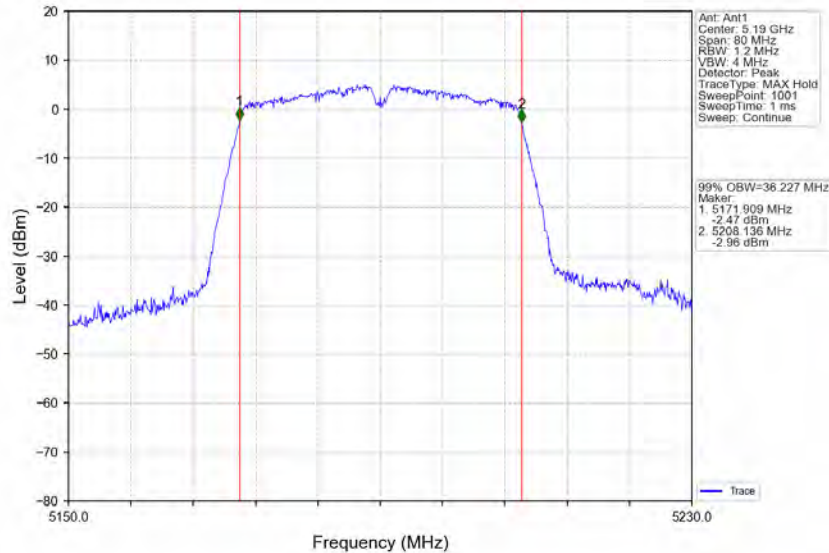
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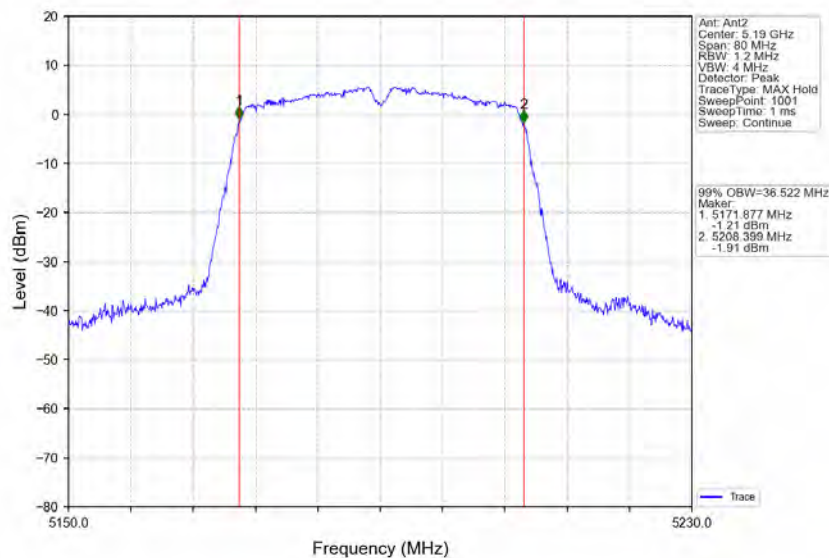
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



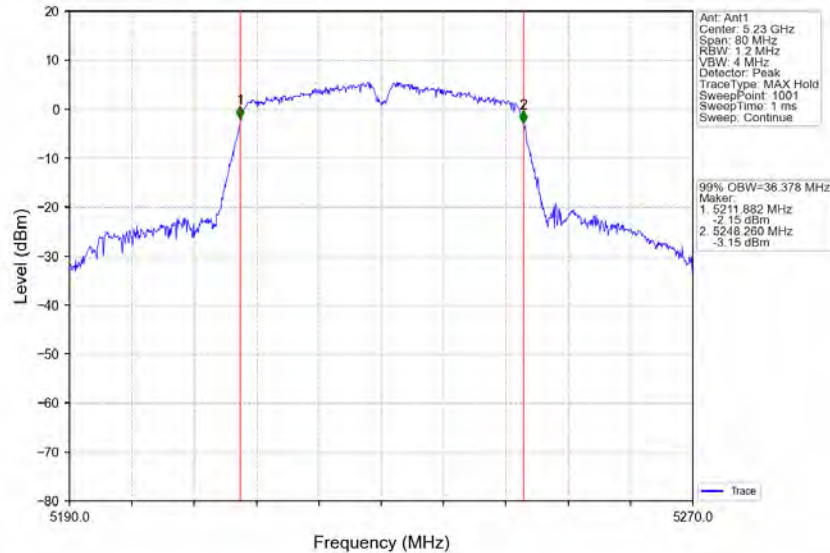
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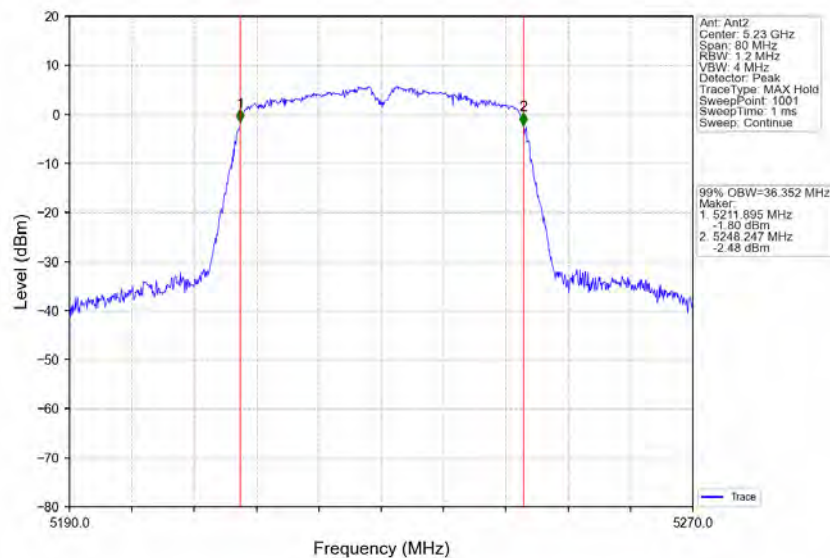
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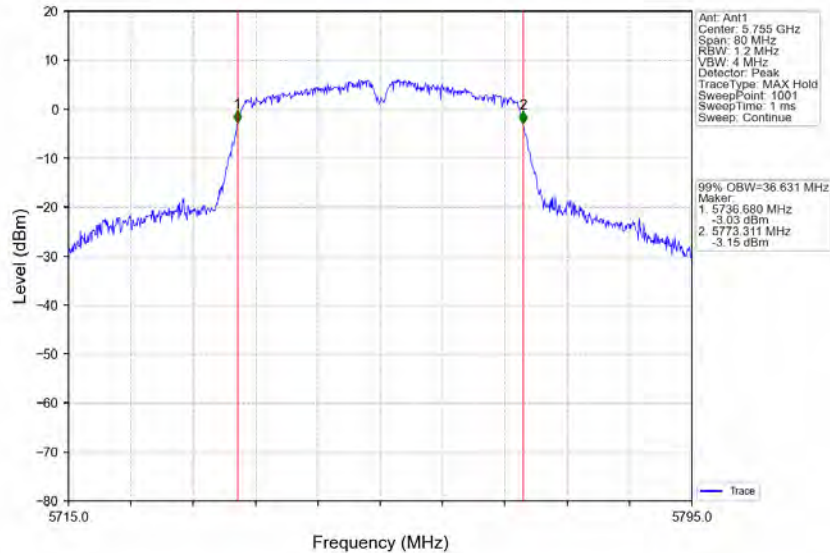
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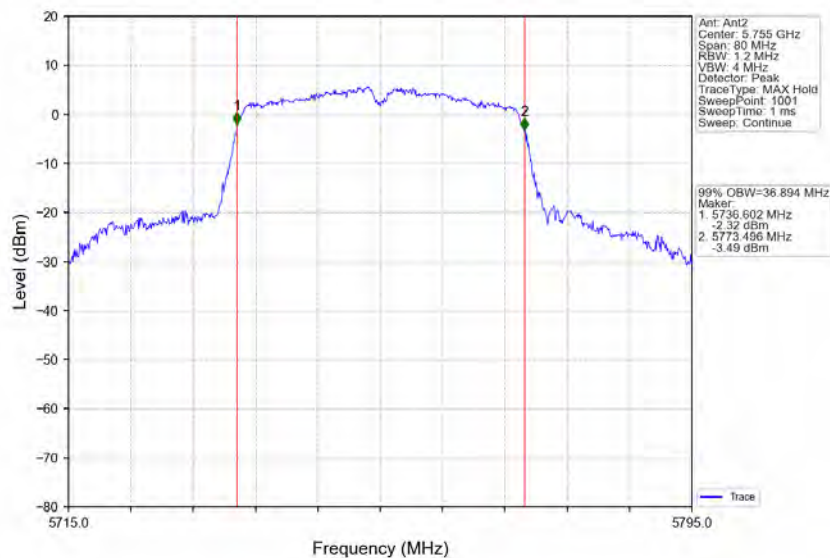
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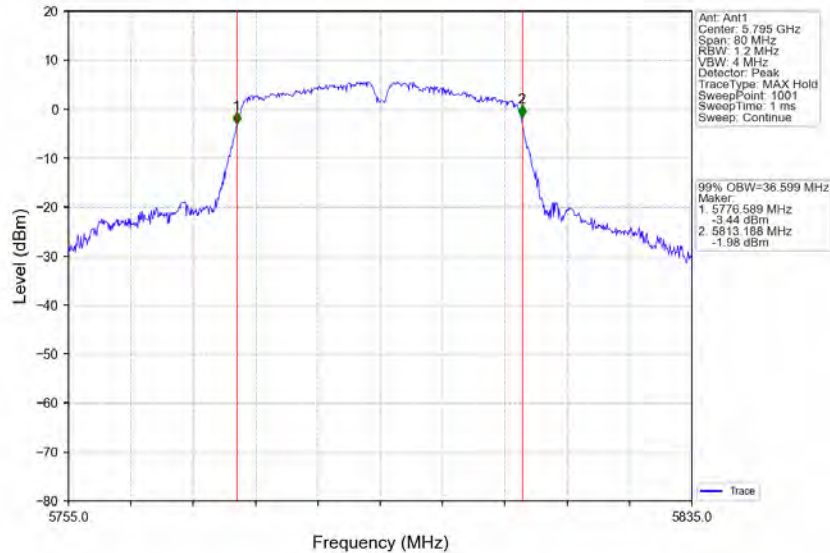
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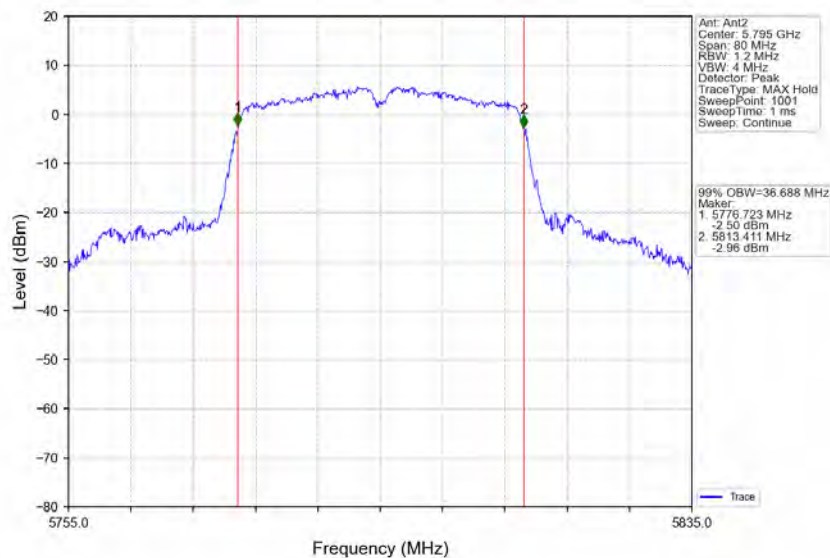
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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



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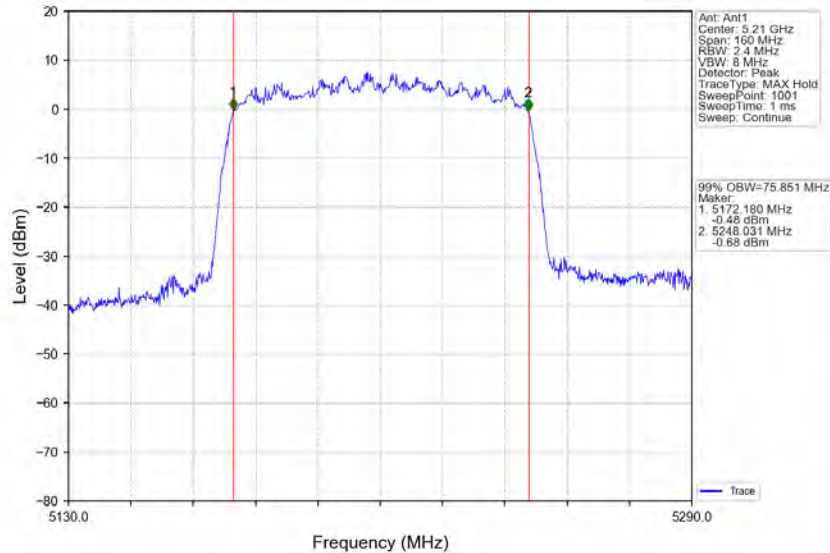
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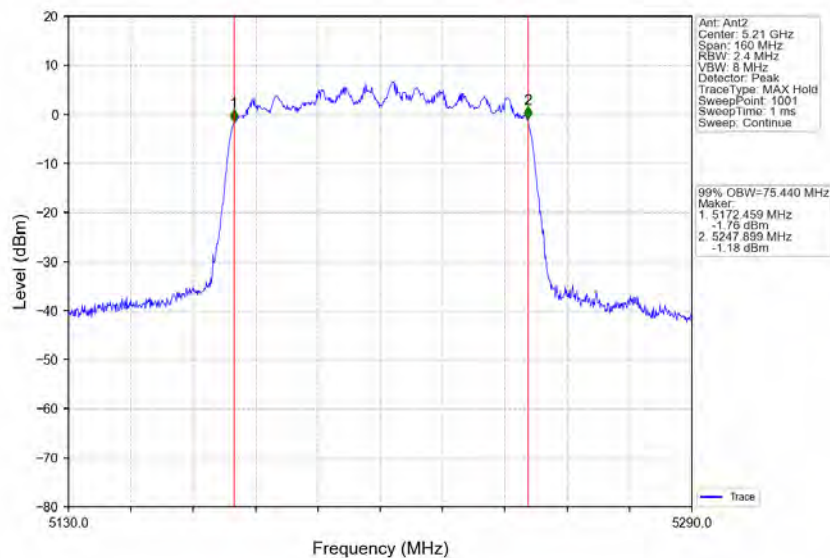
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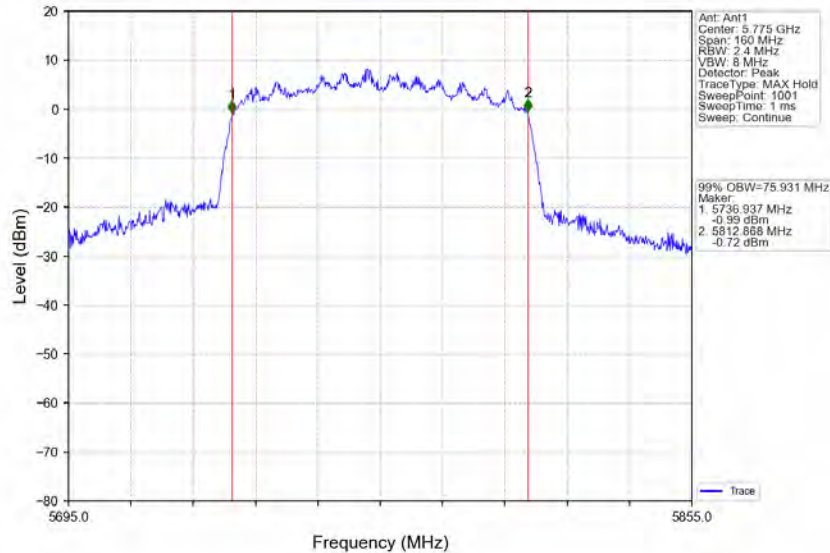
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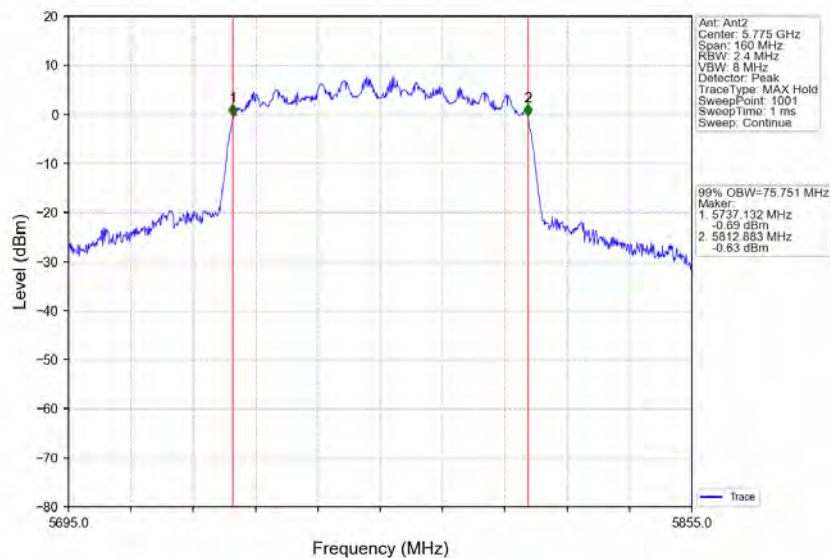
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Report No.: KSCR220800157005

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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	15.181	≥ 0.5	Pass
			2	15.146	≥ 0.5	Pass
		5785	1	15.118	≥ 0.5	Pass
			2	15.146	≥ 0.5	Pass
		5825	1	15.136	≥ 0.5	Pass
			2	15.147	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.126	≥ 0.5	Pass
			2	15.718	≥ 0.5	Pass
		5785	1	15.109	≥ 0.5	Pass
			2	15.156	≥ 0.5	Pass
		5825	1	15.177	≥ 0.5	Pass
			2	15.732	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.130	≥ 0.5	Pass
			2	35.125	≥ 0.5	Pass
		5795	1	35.086	≥ 0.5	Pass
			2	35.136	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	15.152	≥ 0.5	Pass
			2	15.129	≥ 0.5	Pass
		5785	1	15.107	≥ 0.5	Pass
			2	15.730	≥ 0.5	Pass
		5825	1	15.159	≥ 0.5	Pass
			2	15.716	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.134	≥ 0.5	Pass
			2	35.140	≥ 0.5	Pass
		5795	1	35.140	≥ 0.5	Pass
			2	35.130	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.097	≥ 0.5	Pass
			2	75.152	≥ 0.5	Pass



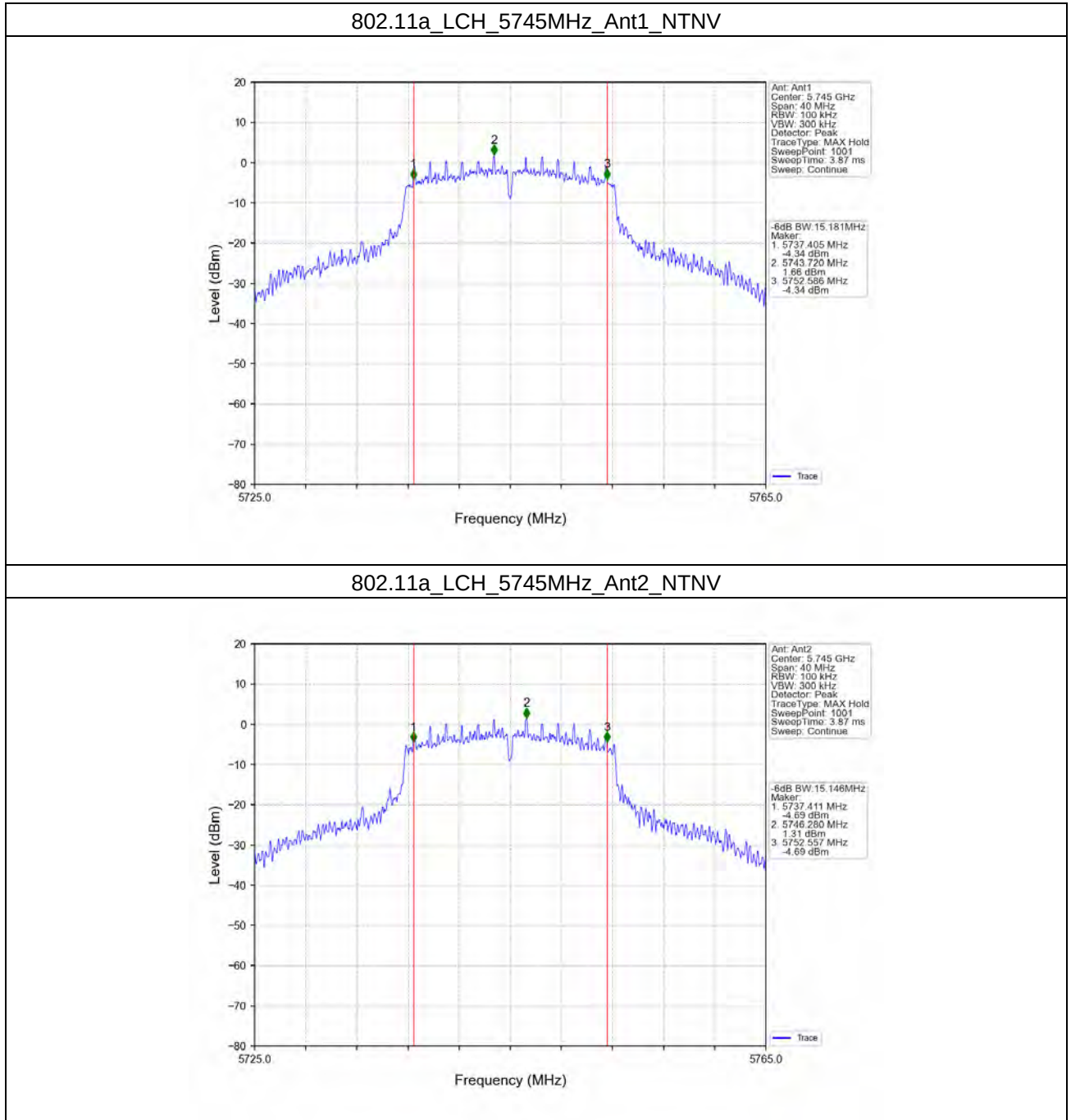
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2.2.2 Test Graph



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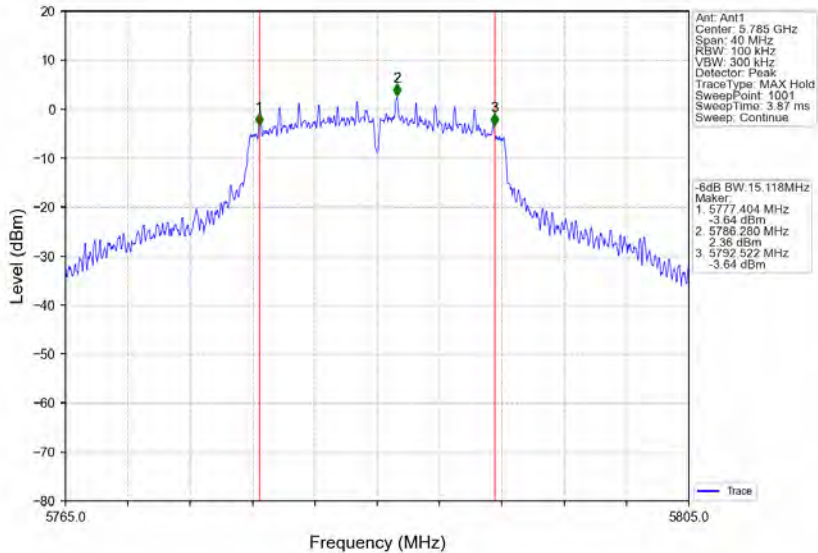
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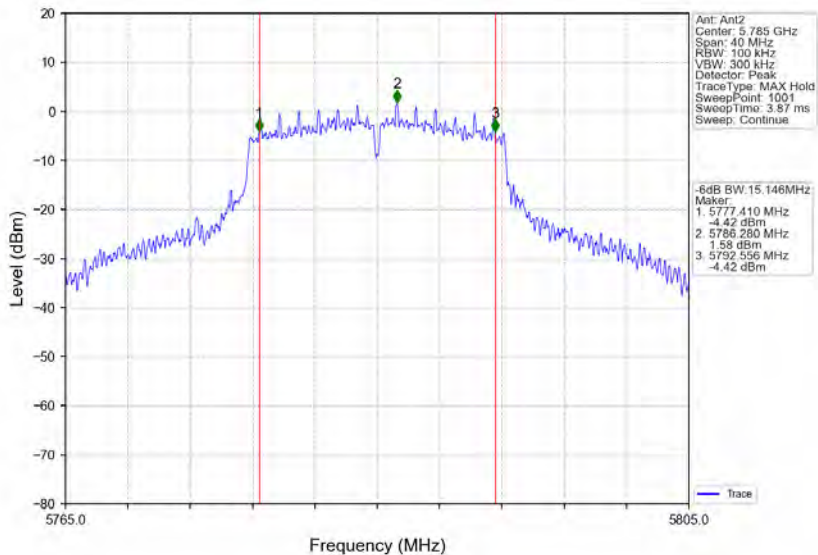
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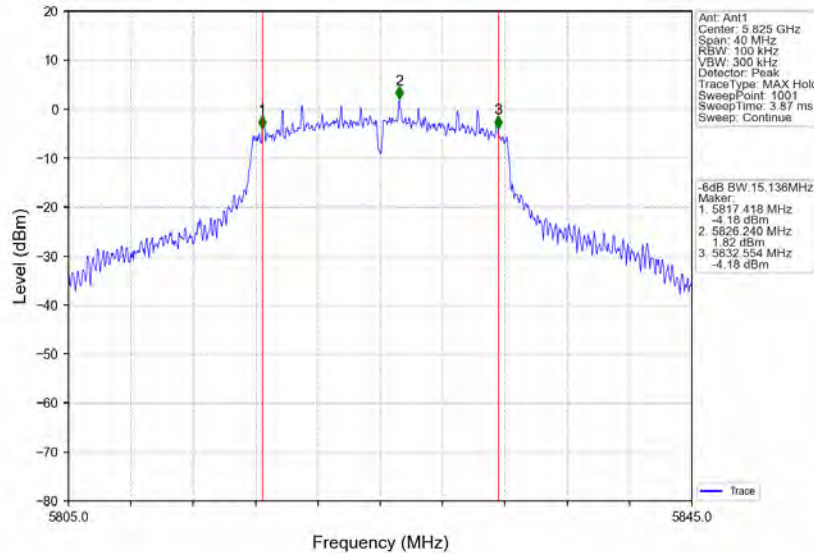
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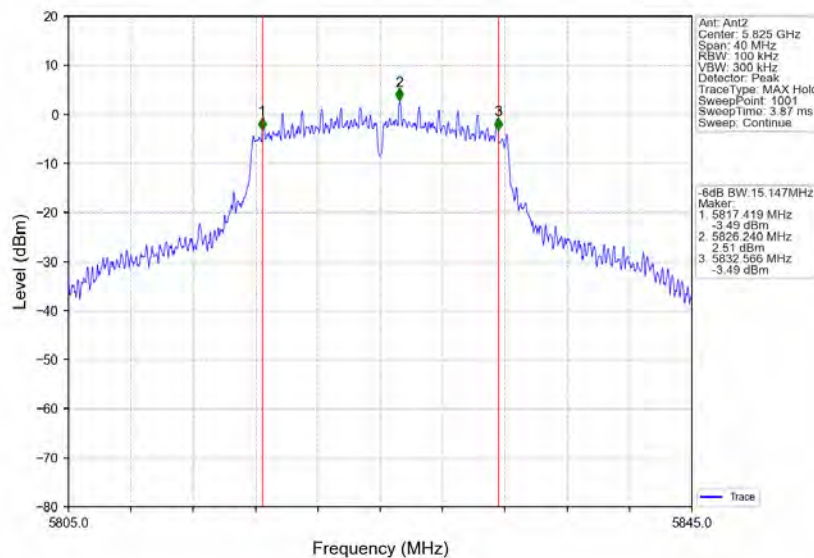
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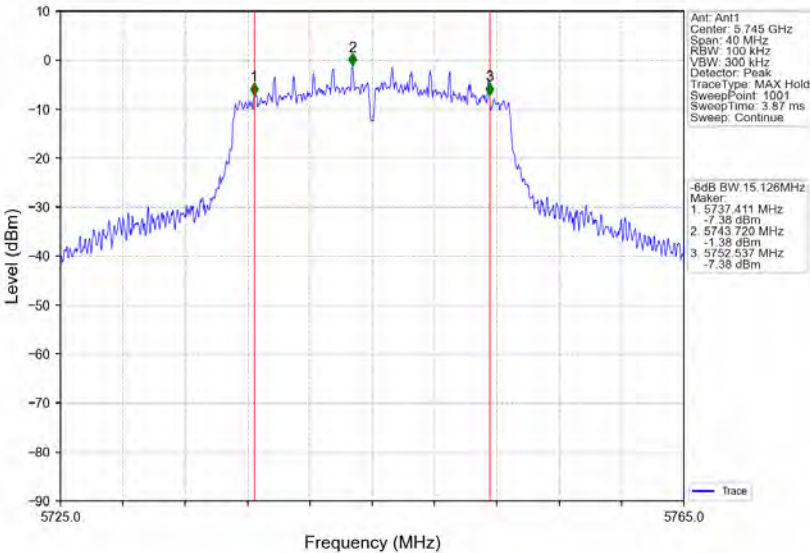
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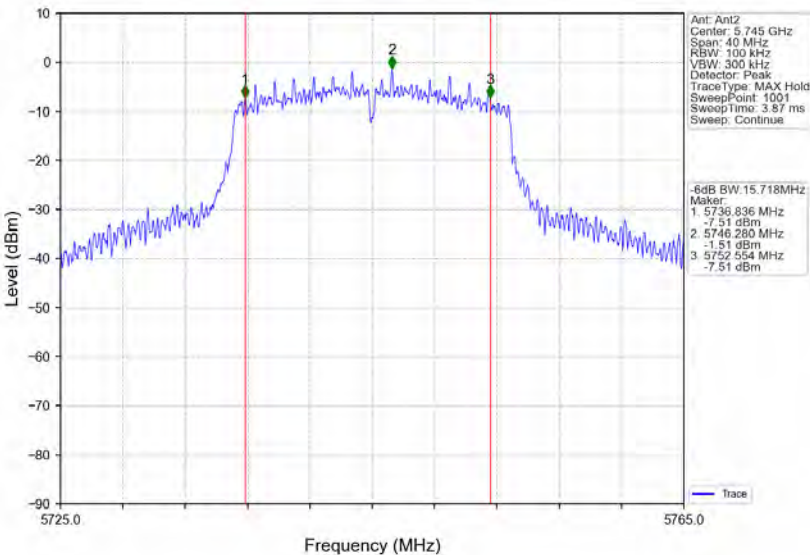
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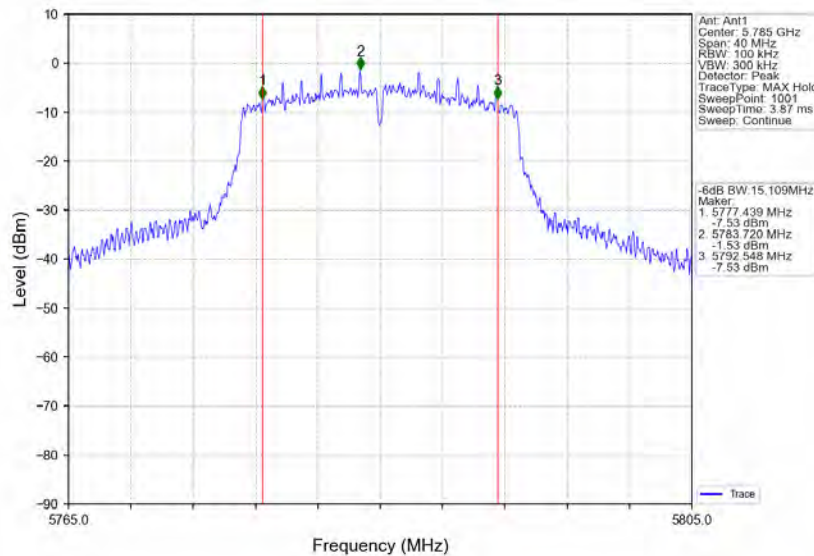
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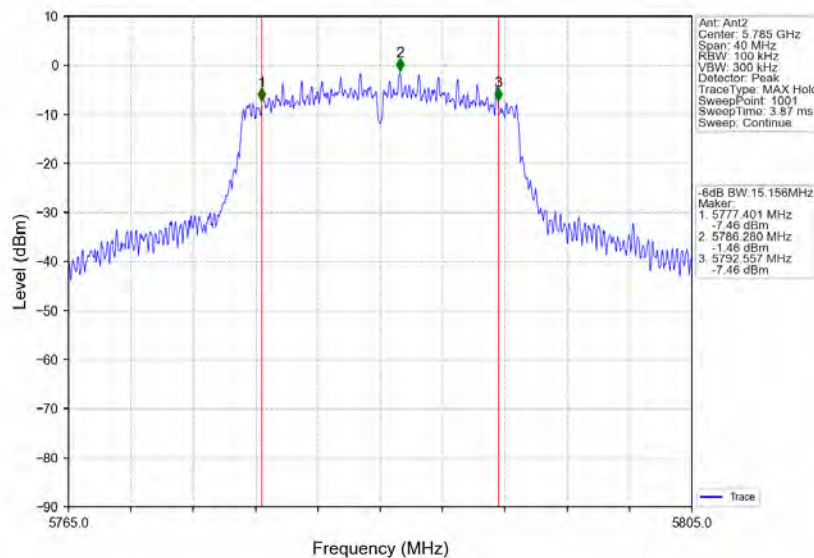
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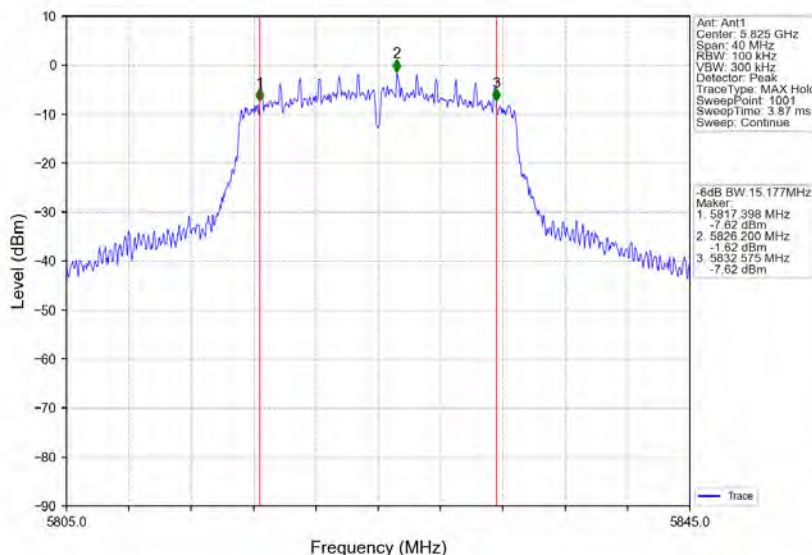
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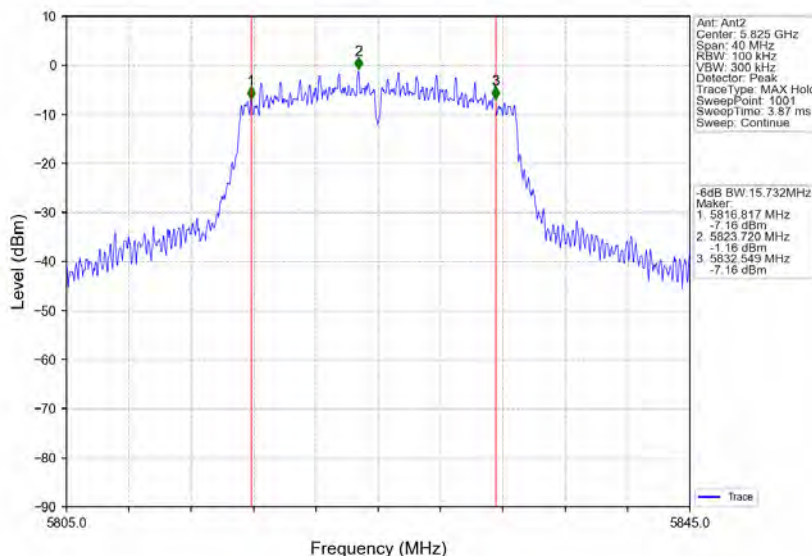
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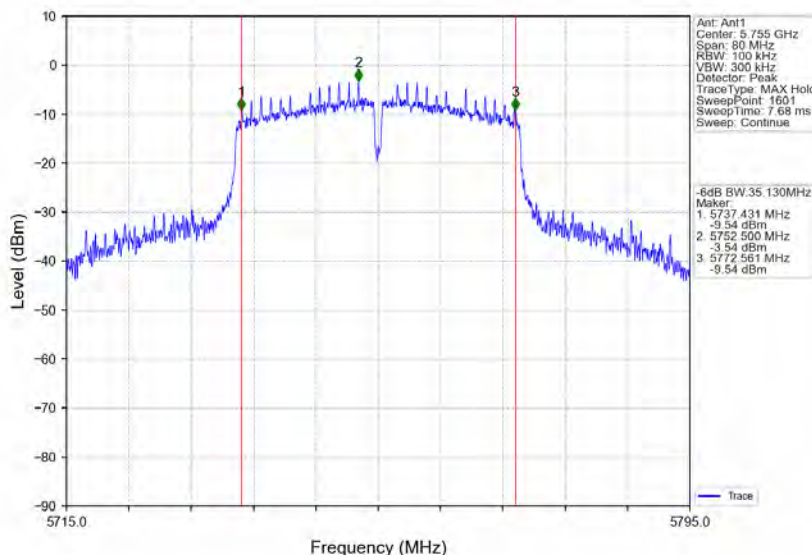
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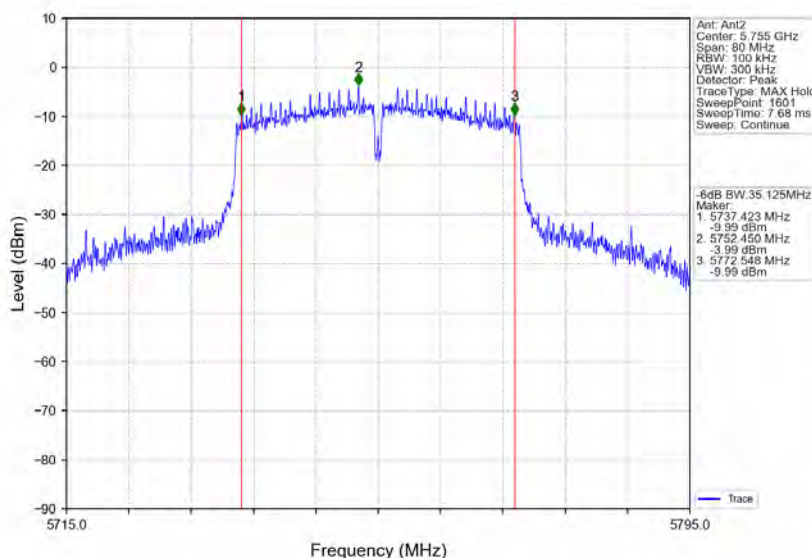
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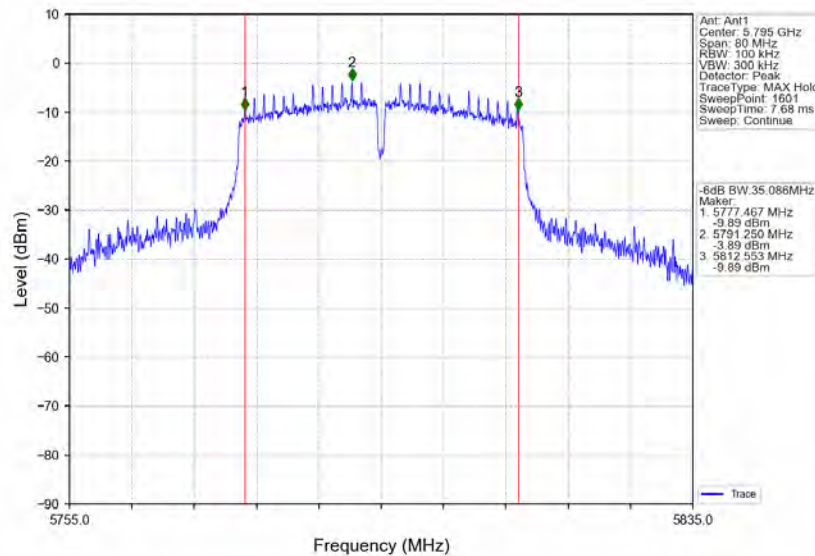
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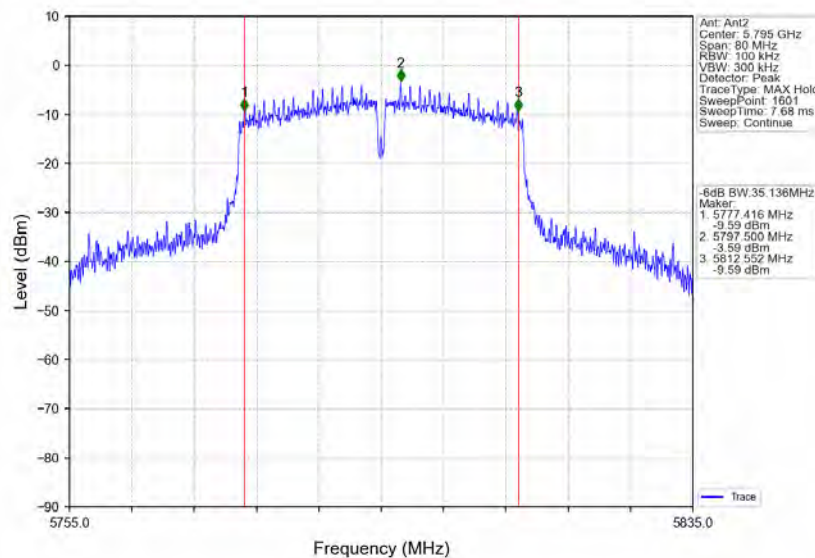
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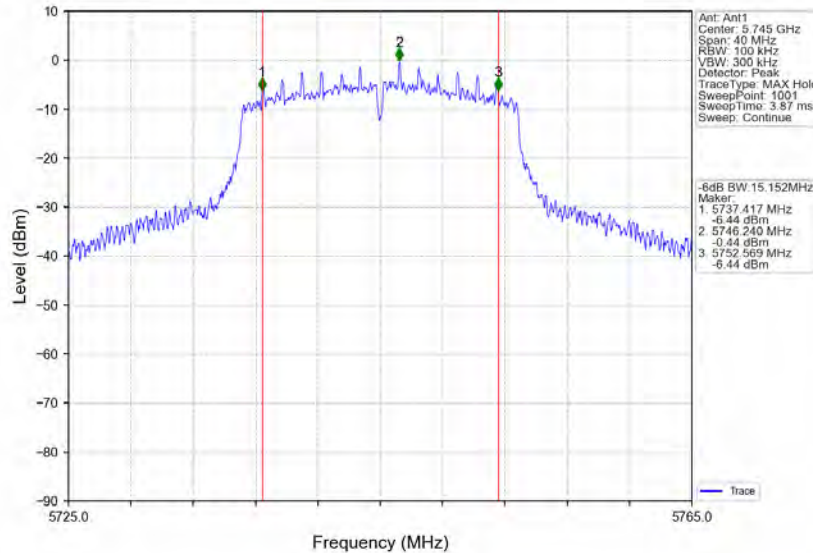
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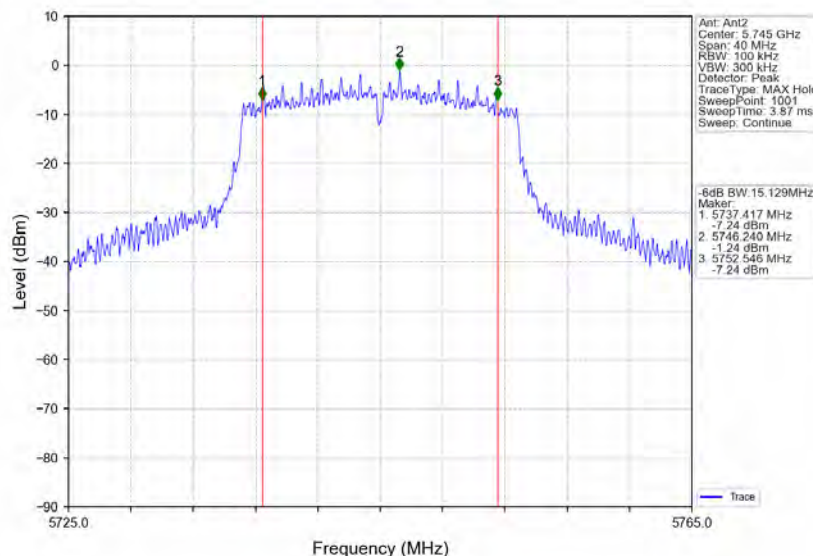
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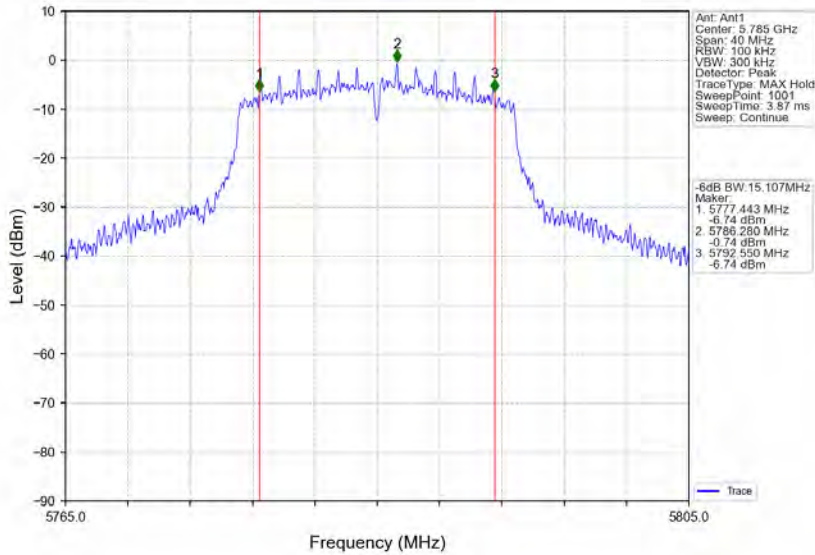
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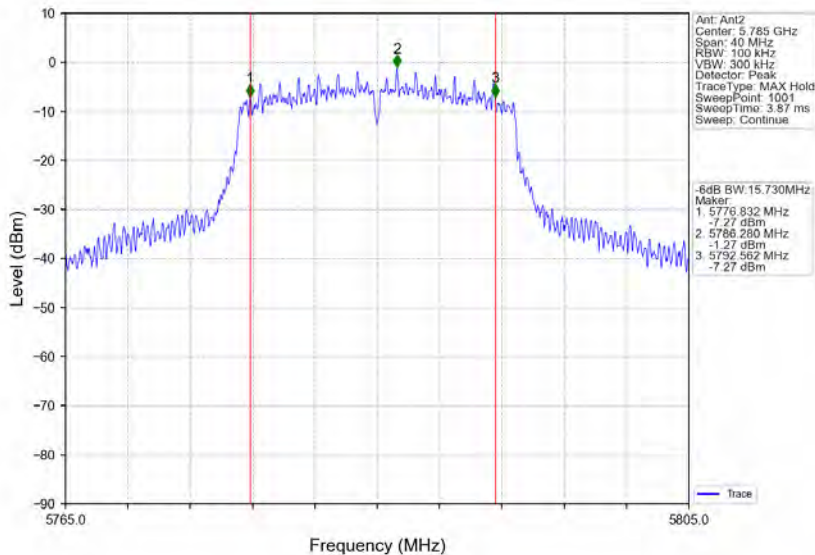
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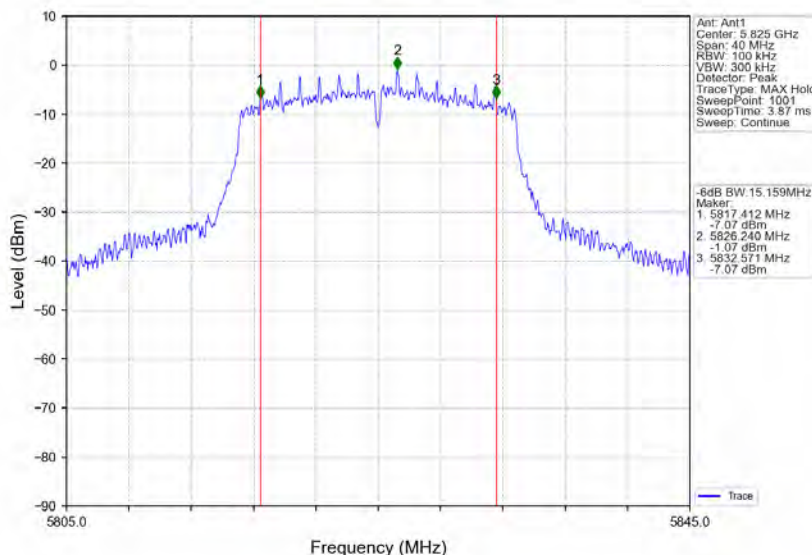
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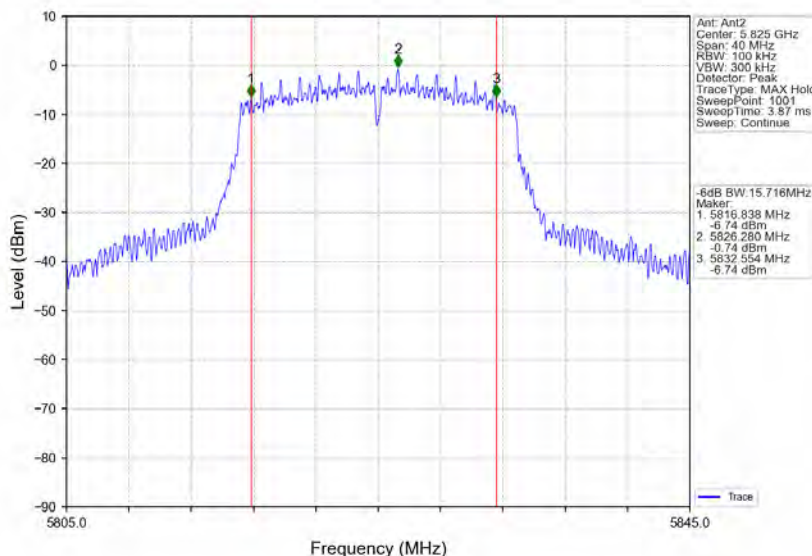
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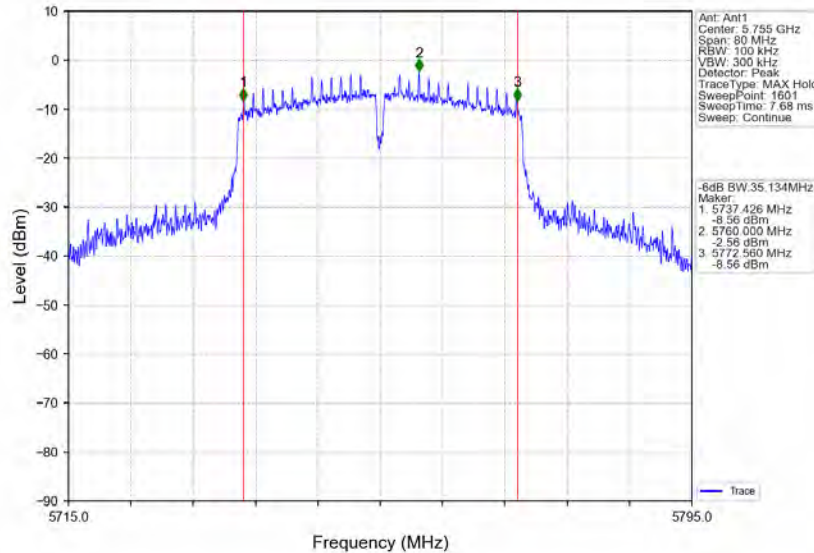
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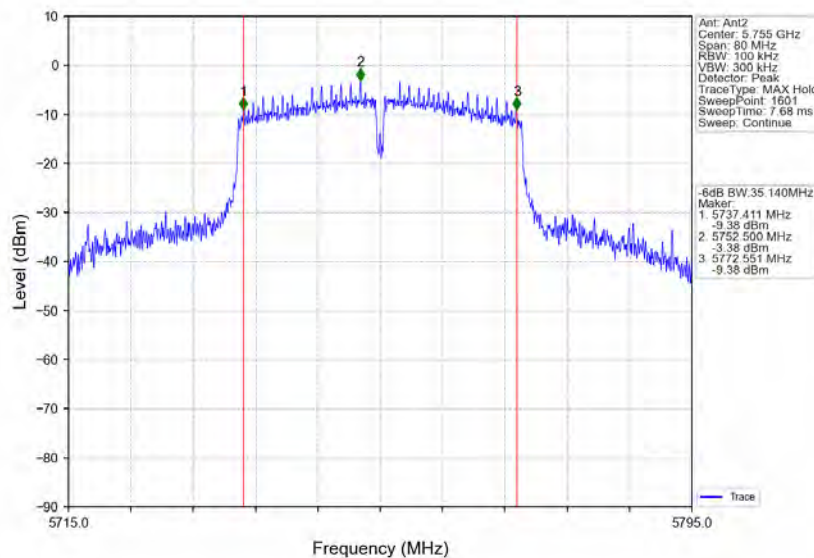
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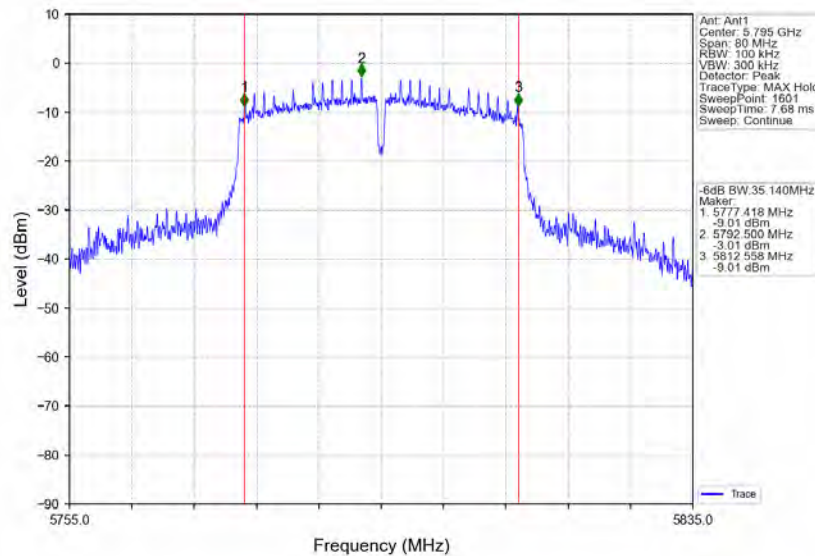
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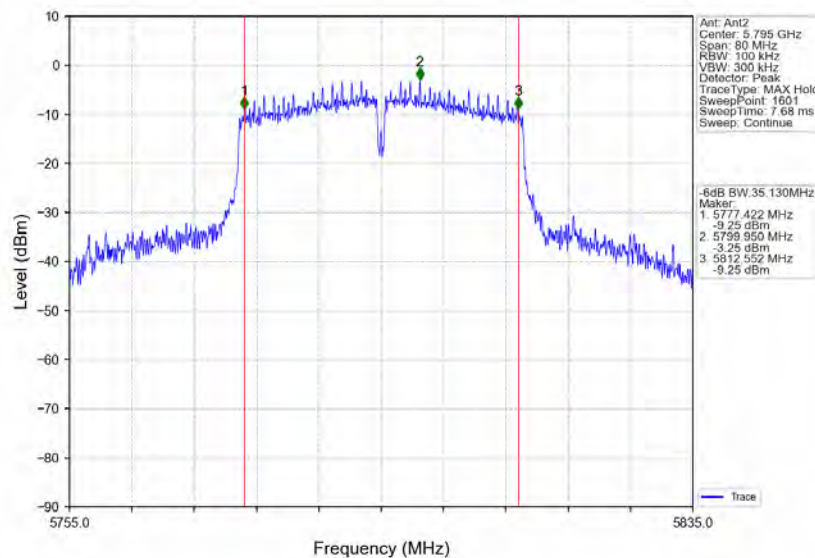
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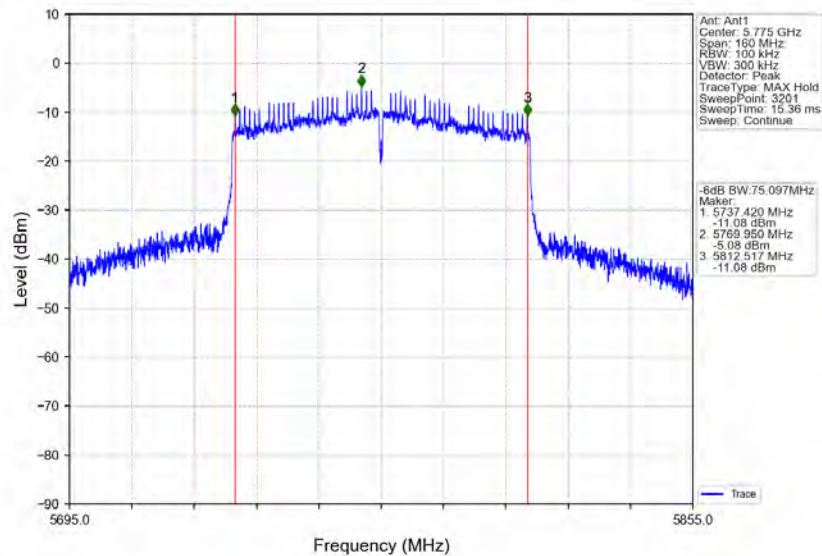
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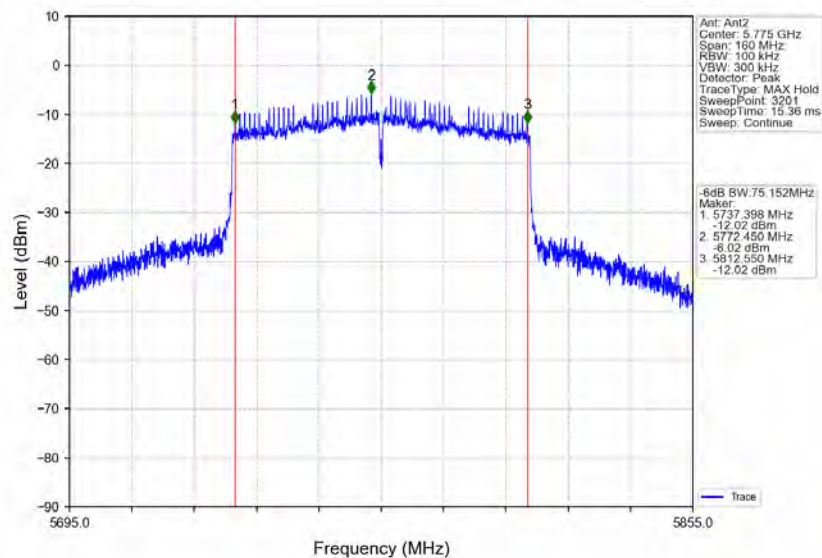
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157005

Page: 195 of 290

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	20.733	Pass
			2	20.619	Pass
		5200	1	35.405	Pass
			2	20.678	Pass
		5240	1	35.765	Pass
			2	20.765	Pass
802.11n (HT20)	MIMO	5180	1	20.926	Pass
			2	20.602	Pass
		5200	1	29.426	Pass
			2	20.596	Pass
		5240	1	26.341	Pass
			2	20.565	Pass
802.11n (HT40)	MIMO	5190	1	41.559	Pass
			2	41.348	Pass
		5230	1	44.109	Pass
			2	41.746	Pass
802.11ac (VHT20)	MIMO	5180	1	20.965	Pass
			2	20.641	Pass
		5200	1	26.541	Pass
			2	20.512	Pass
		5240	1	30.139	Pass
			2	20.509	Pass
802.11ac (VHT40)	MIMO	5190	1	41.464	Pass
			2	41.470	Pass
		5230	1	43.536	Pass
			2	41.320	Pass
802.11ac (VHT80)	MIMO	5210	1	83.033	Pass
			2	81.712	Pass



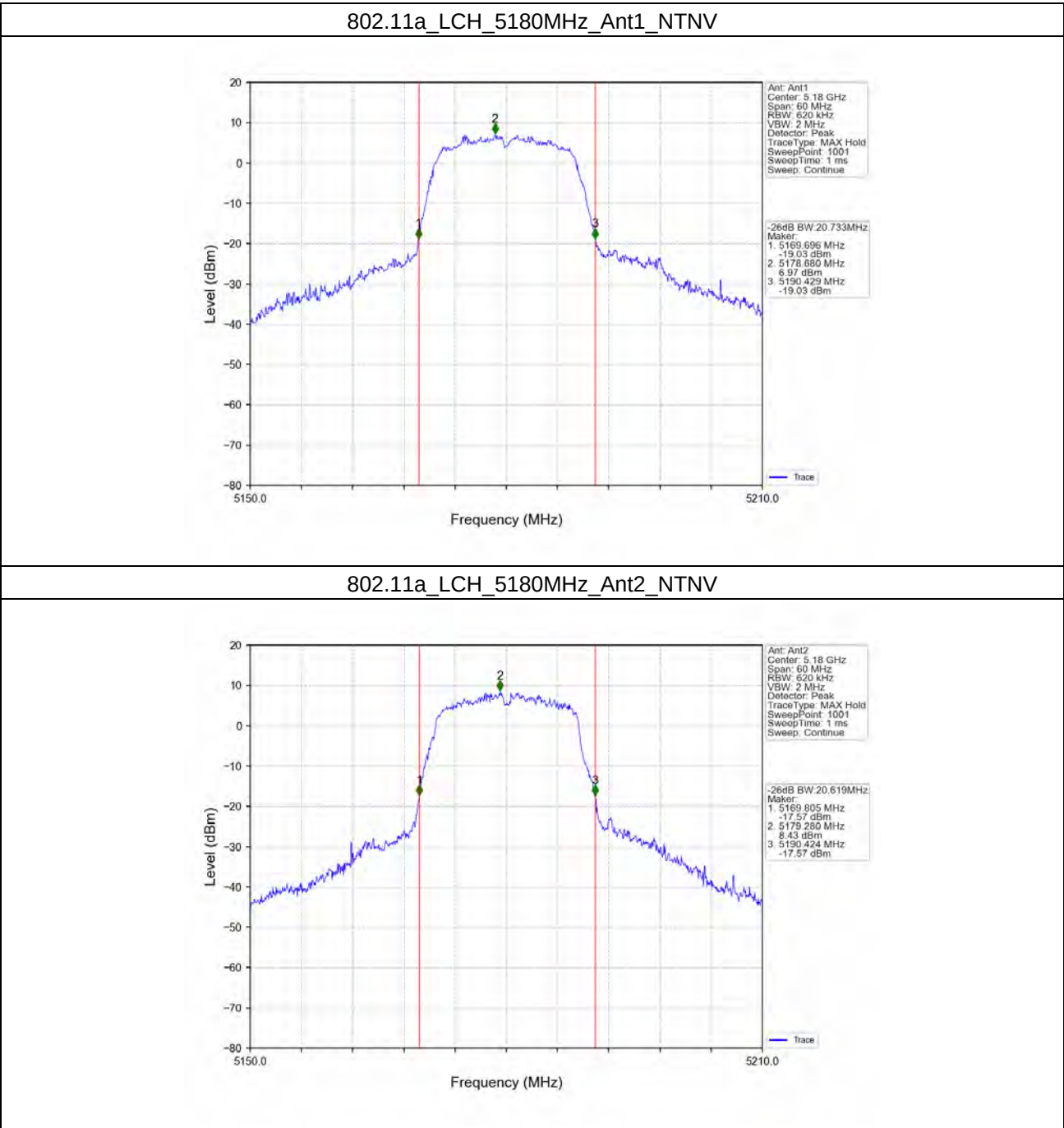
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2.3.2 Test Graph



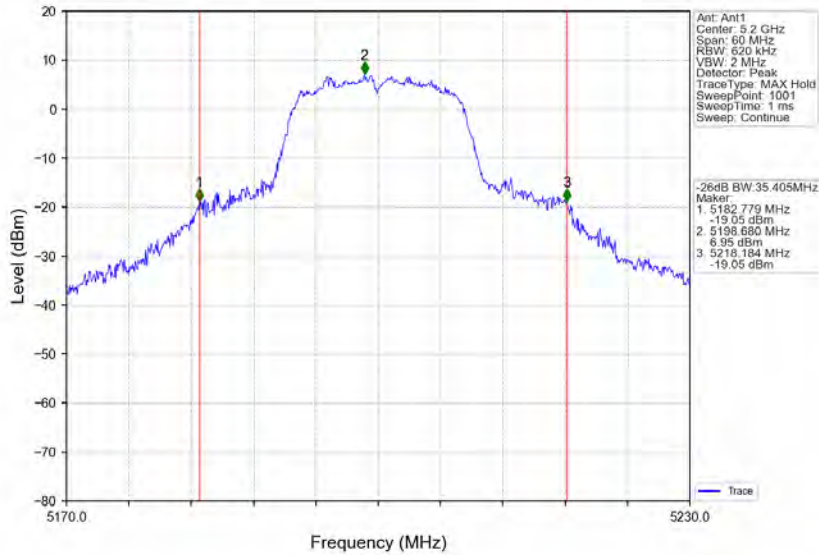
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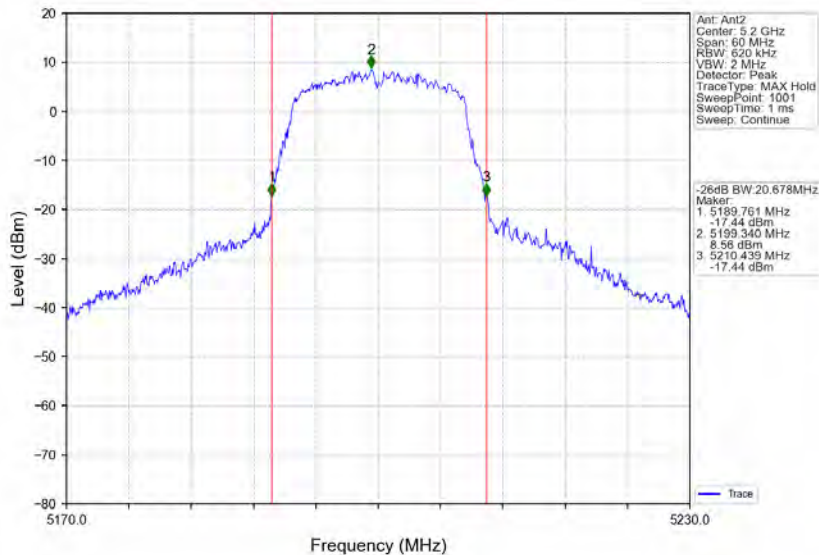
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802.11a_MCH_5200MHz_Ant2_NTNV



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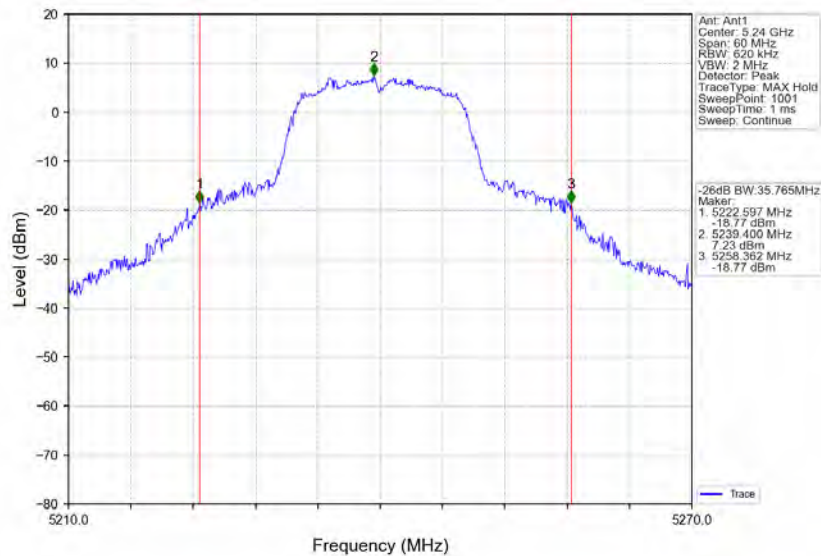
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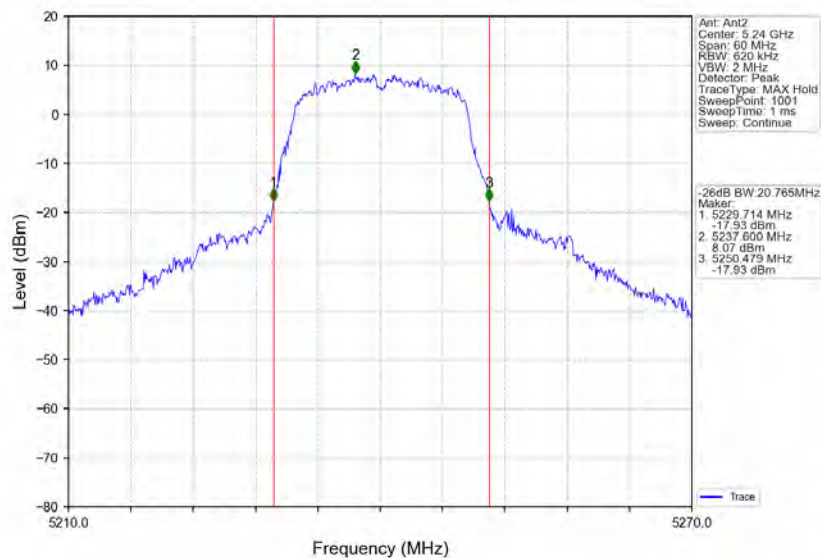
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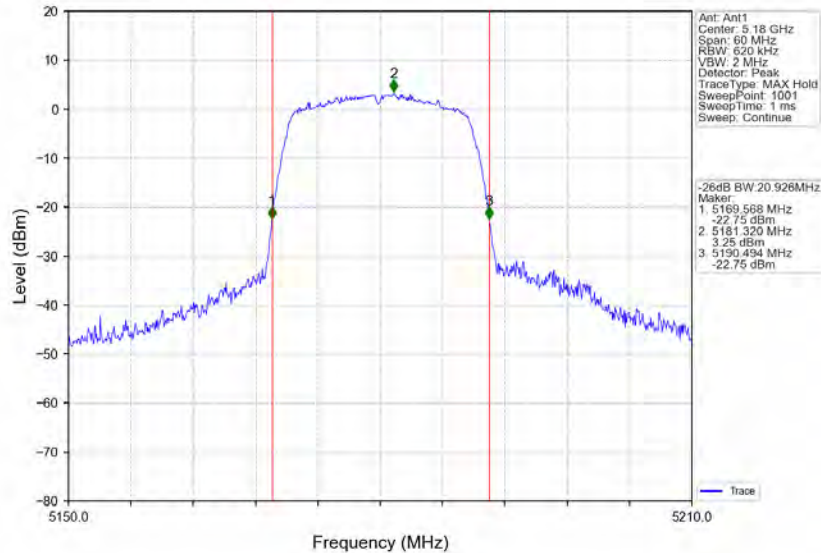
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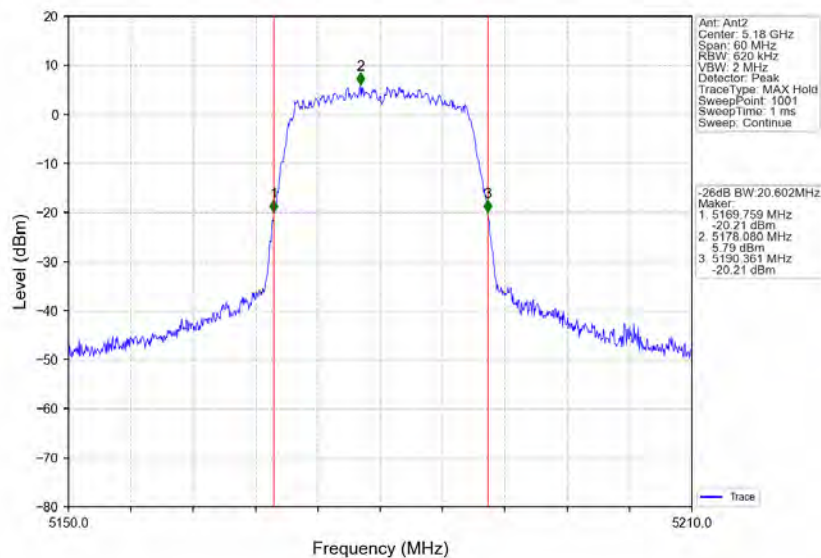
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802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



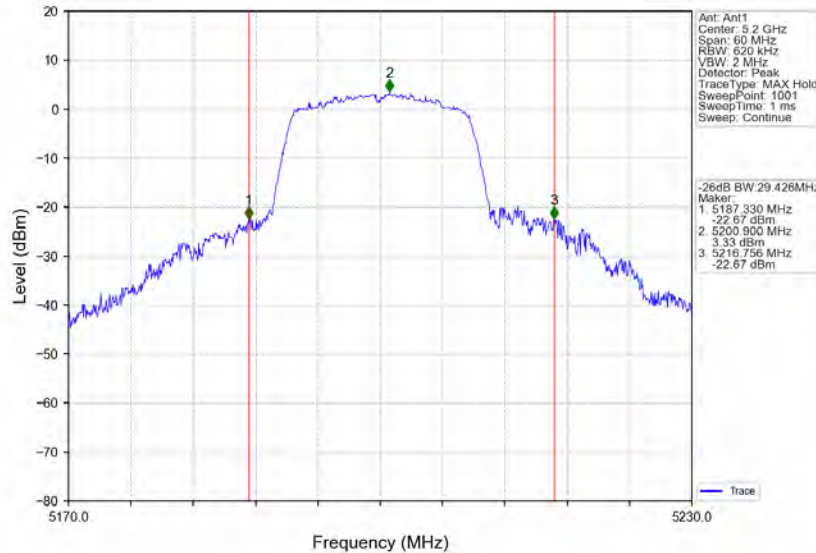
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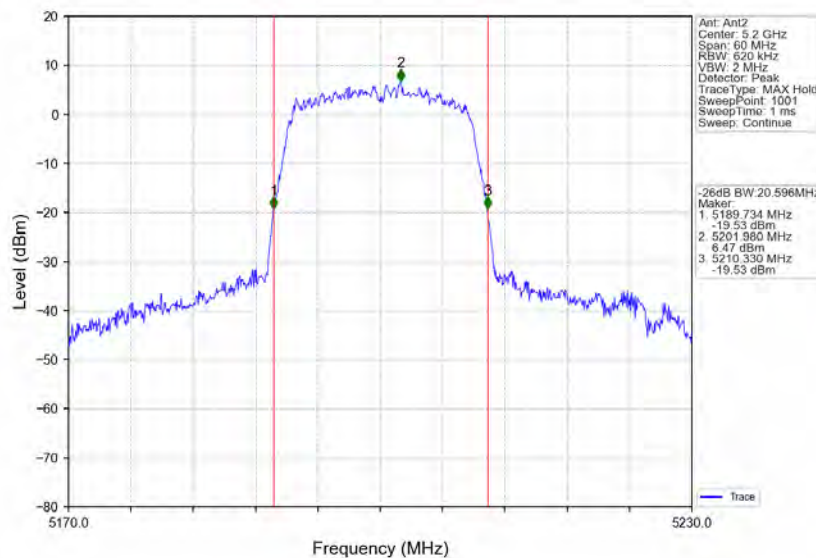
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



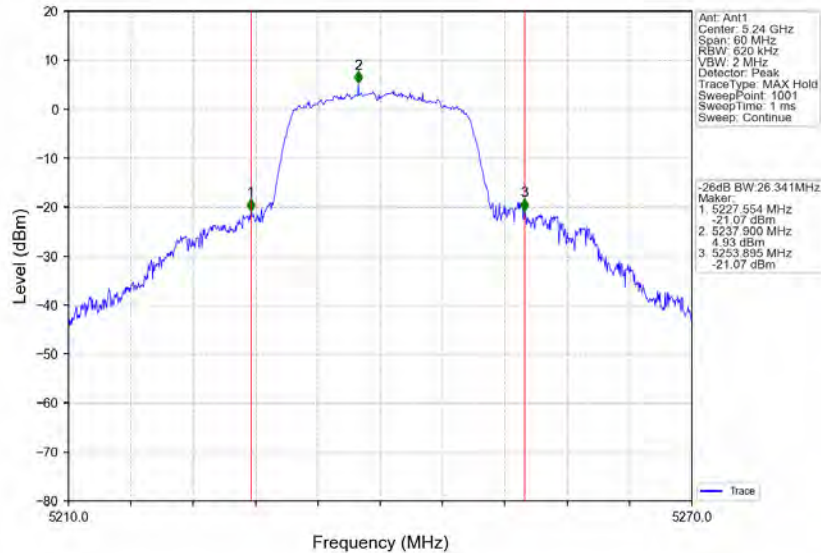
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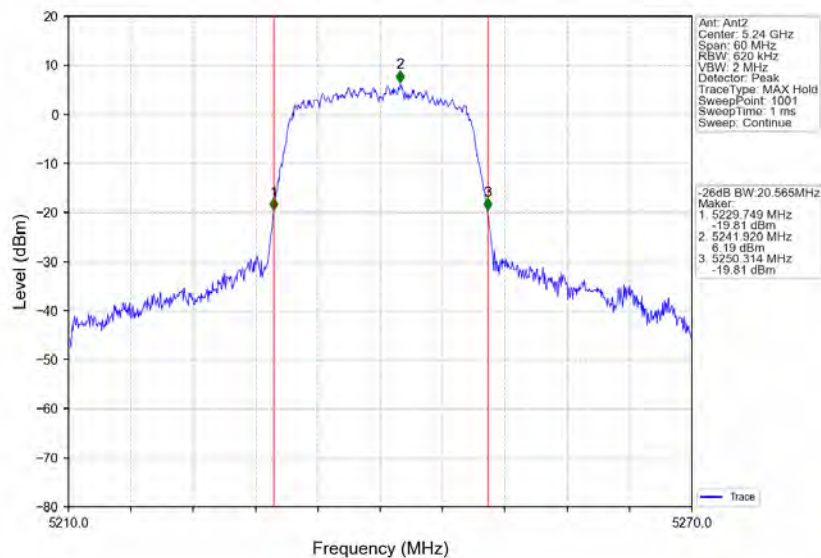
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802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



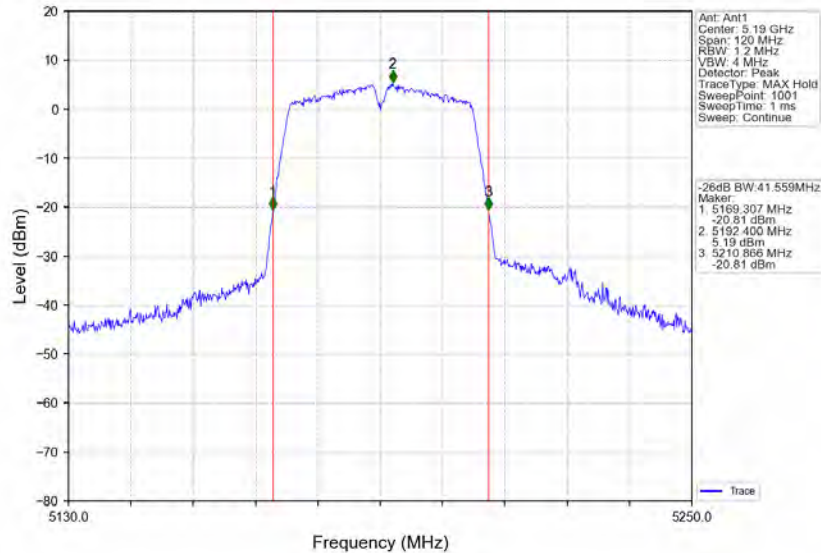
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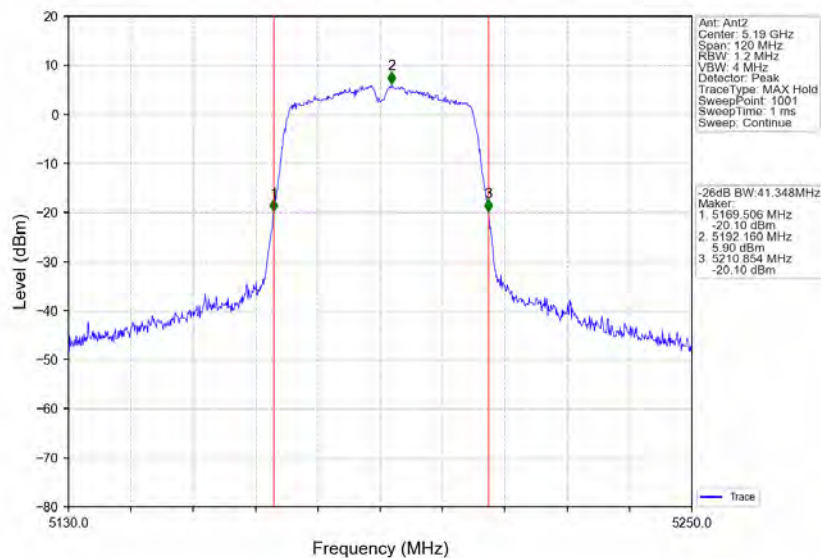
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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



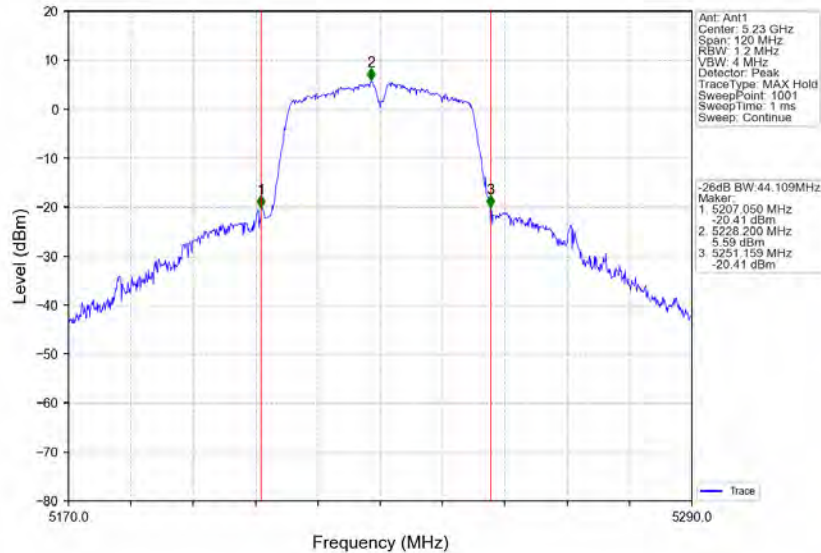
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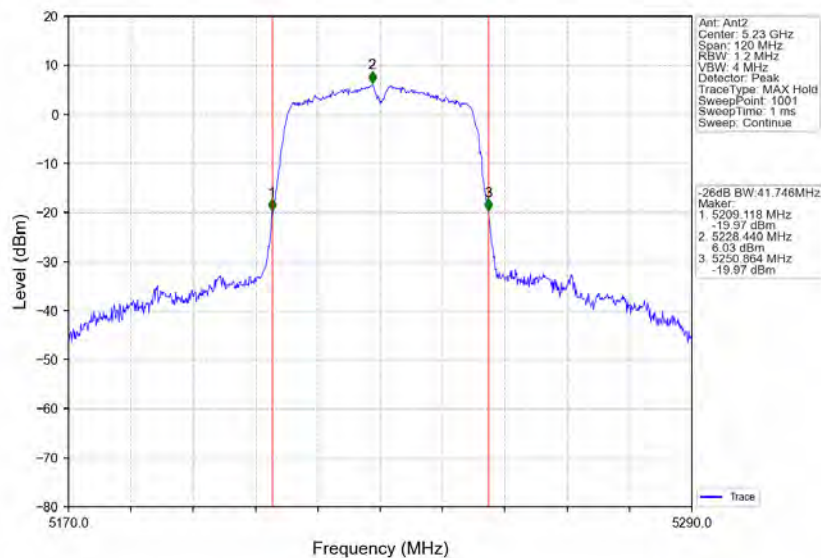
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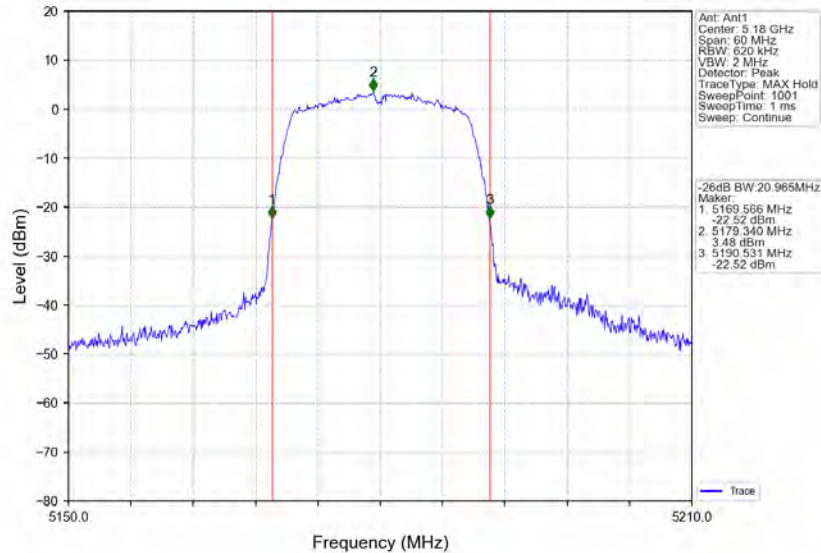
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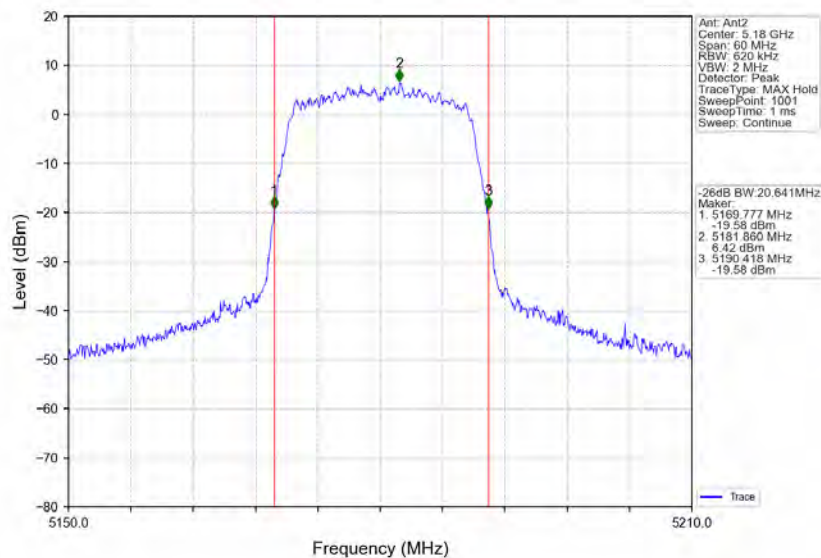
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



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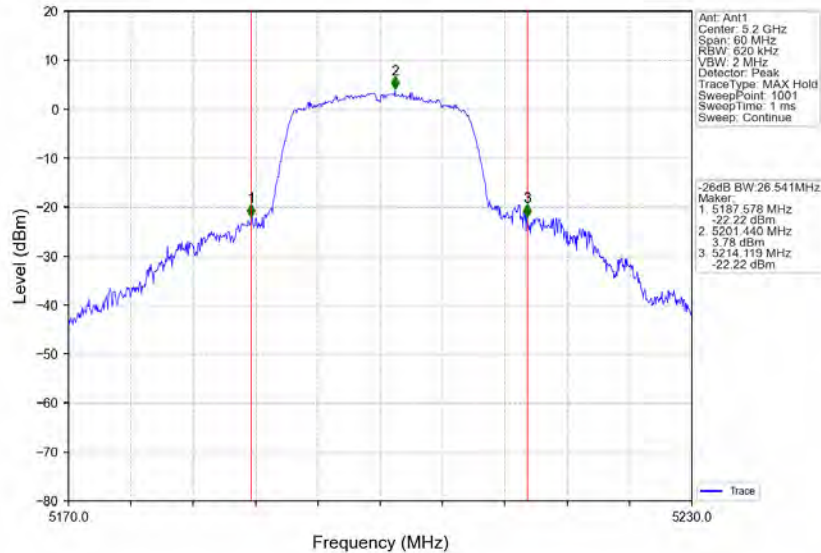
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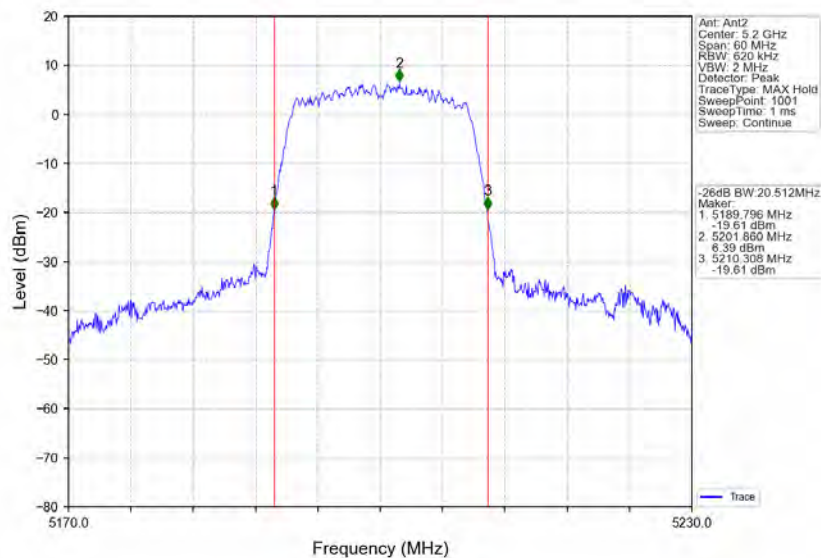
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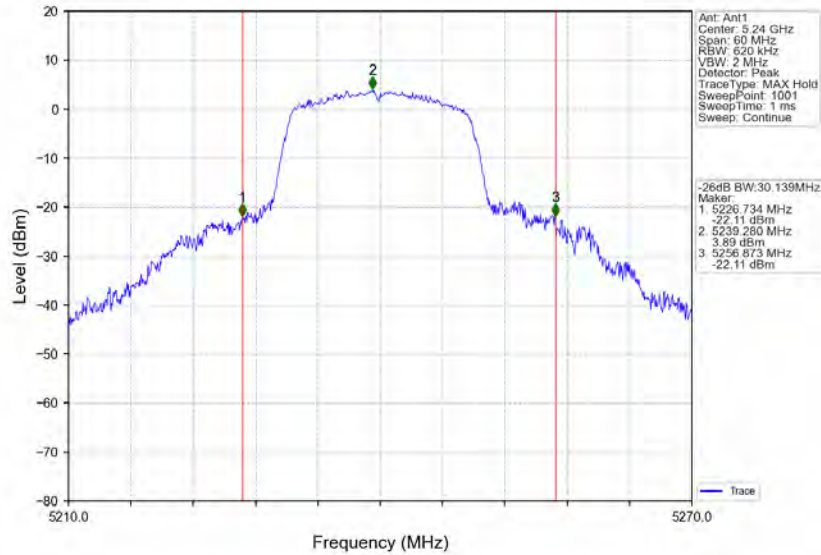
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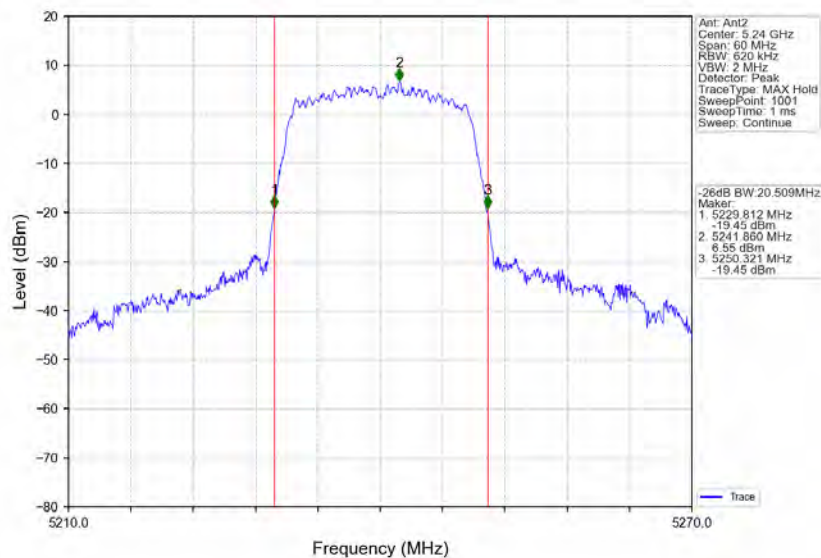
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



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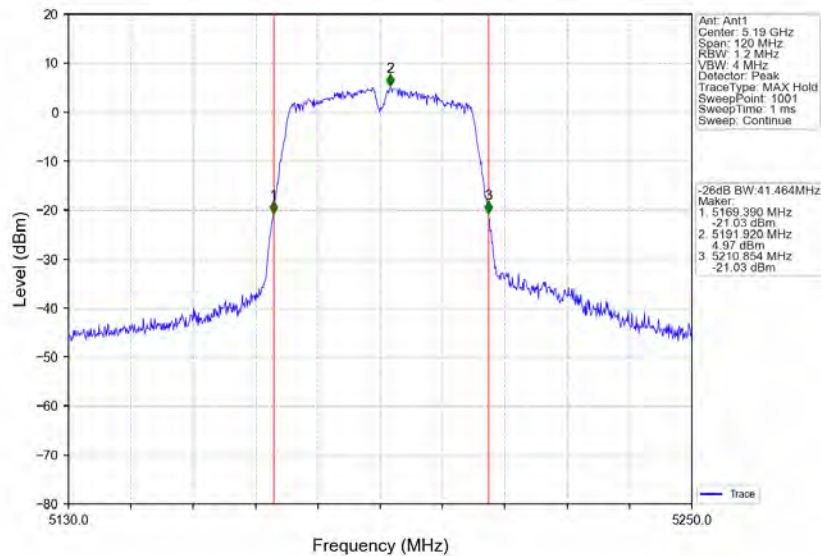
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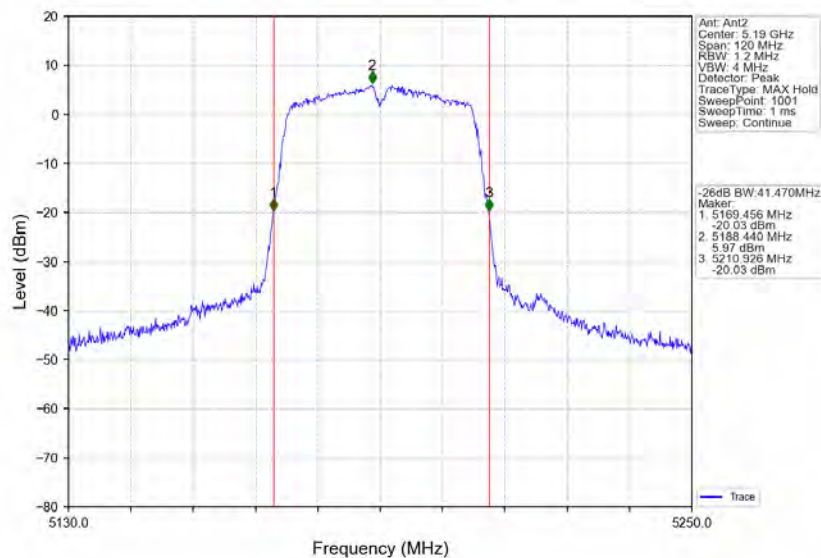
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



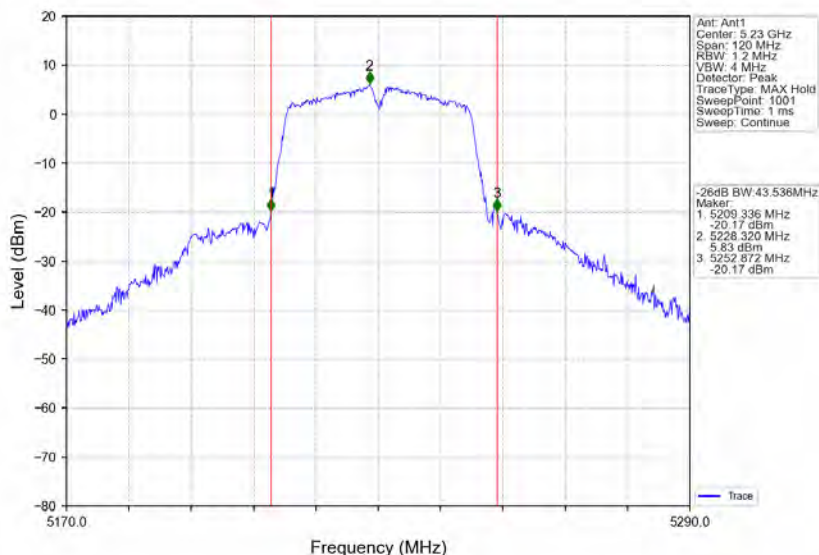
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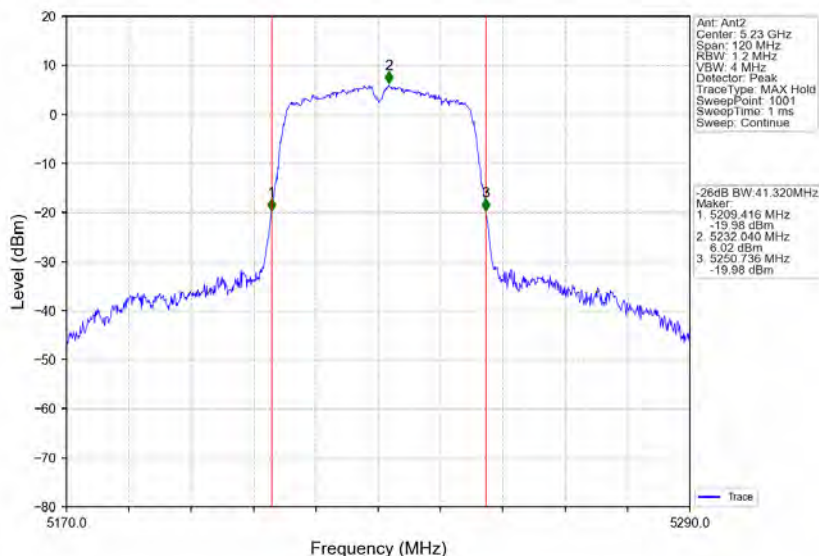
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



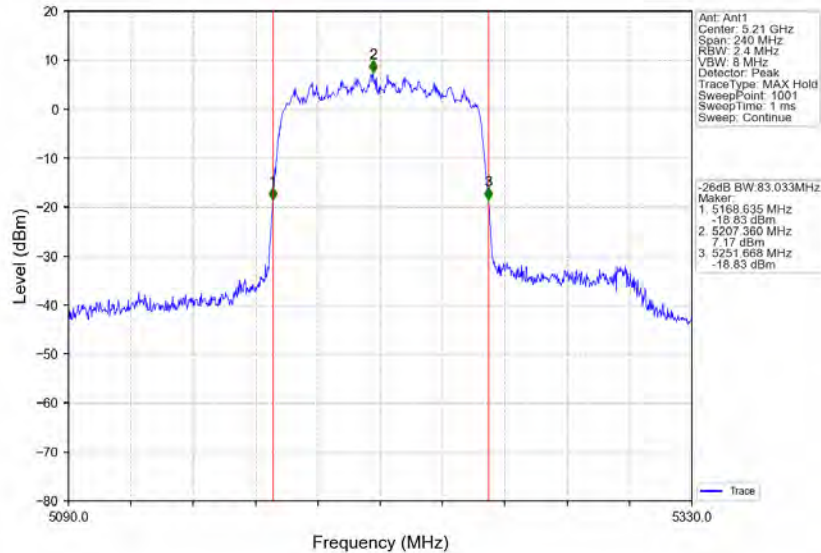
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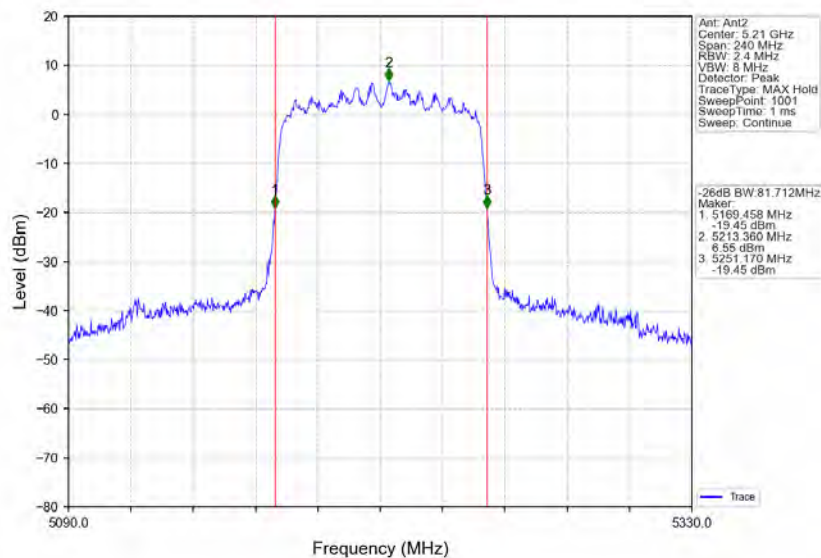
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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3. Maximum Conducted Output Power

3.1 Power for FCC

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	11.83	12.35	/	<=23.98	Pass
		5200	11.74	12.41	/	<=23.98	Pass
		5240	12.06	12.27	/	<=23.98	Pass
		5745	11.93	11.30	/	<=30	Pass
		5785	12.09	11.56	/	<=30	Pass
		5825	11.79	12.15	/	<=30	Pass
802.11n (HT20)	MIMO	5180	8.71	9.24	11.99	<=23.98	Pass
		5200	8.78	9.41	12.12	<=23.98	Pass
		5240	9.04	9.21	12.14	<=23.98	Pass
		5745	8.87	8.38	11.64	<=30	Pass
		5785	8.74	8.58	11.67	<=30	Pass
		5825	8.56	9.13	11.86	<=30	Pass
802.11n (HT40)	MIMO	5190	9.03	9.63	12.35	<=23.98	Pass
		5230	9.31	9.69	12.51	<=23.98	Pass
		5755	9.57	8.78	12.20	<=30	Pass
		5795	9.14	9.11	12.14	<=30	Pass
802.11ac (VHT20)	MIMO	5180	8.85	9.35	12.12	<=23.98	Pass
		5200	8.94	9.62	12.30	<=23.98	Pass
		5240	9.35	9.44	12.41	<=23.98	Pass
		5745	8.91	8.46	11.70	<=30	Pass
		5785	9.04	8.62	11.85	<=30	Pass
		5825	8.77	9.30	12.05	<=30	Pass
802.11ac (VHT40)	MIMO	5190	9.09	9.73	12.43	<=23.98	Pass
		5230	9.58	9.76	12.68	<=23.98	Pass
		5755	10.28	9.59	12.96	<=30	Pass
		5795	9.91	9.75	12.84	<=30	Pass
802.11ac (VHT80)	MIMO	5210	9.41	8.28	11.89	<=23.98	Pass
		5775	9.70	9.28	12.51	<=30	Pass

Note1: For U-NII-1 Antenna Gain: Ant1: 2.15dBi; Ant2: 2.33dBi; Directional gain:5.25dBi.

For U-NII-3 Antenna Gain: Ant1: 2.54dBi; Ant2: 2.52dBi;Directional gain:5.59dBi.



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EIRP for IC

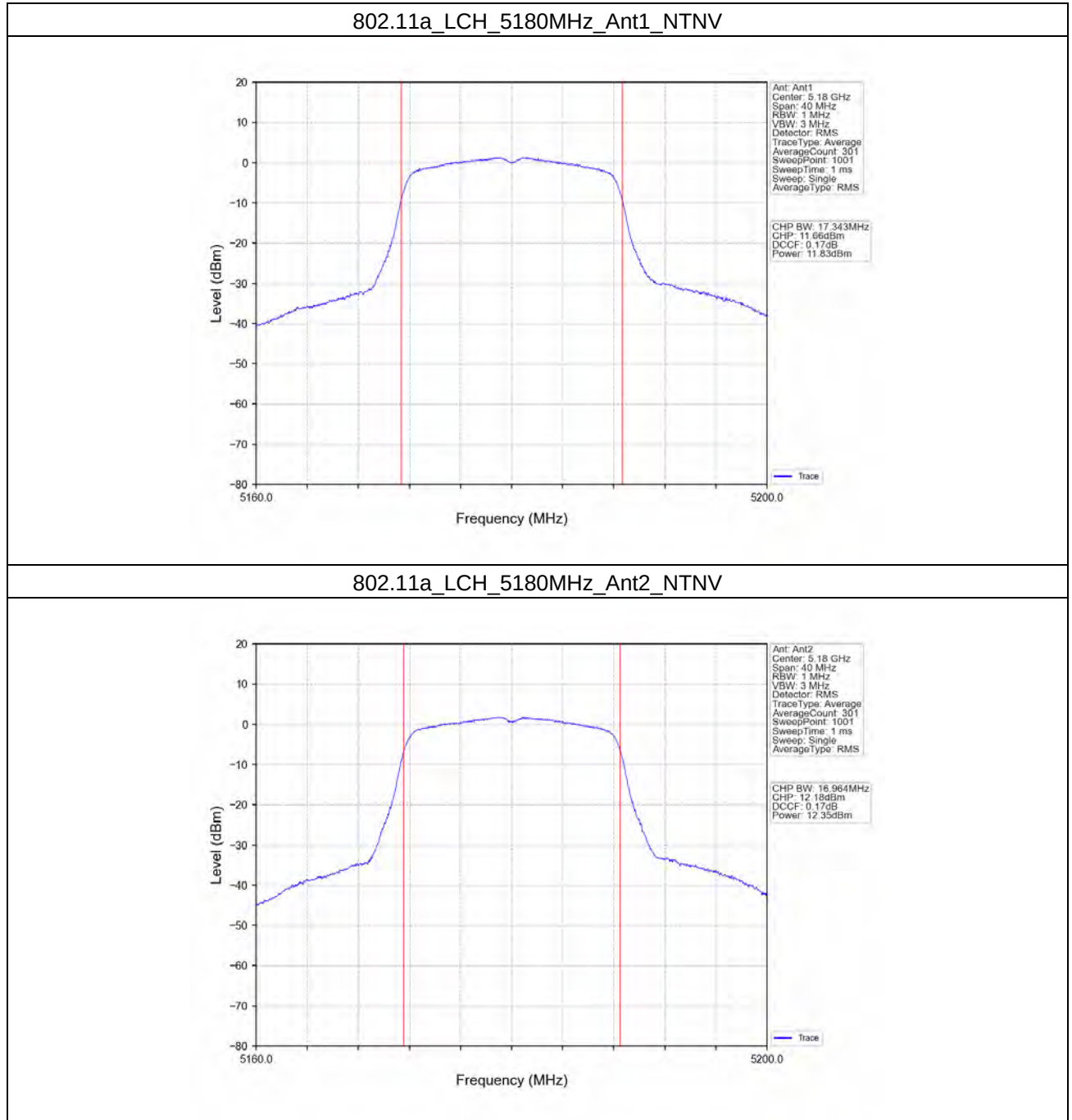
Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5180	13.98	14.68	/	<=23.01	Pass
		5200	13.89	14.74	/	<=23.01	Pass
		5240	14.21	14.60	/	<=23.01	Pass
		5745	14.47	13.82	/	/	Pass
		5785	14.63	14.08	/	/	Pass
		5825	14.33	14.67	/	/	Pass
802.11n (HT20)	MIMO	5180	10.86	11.57	14.24	<=23.01	Pass
		5200	10.93	11.74	14.36	<=23.01	Pass
		5240	11.19	11.54	14.38	<=23.01	Pass
		5745	11.41	10.90	14.17	/	Pass
		5785	11.28	11.10	14.20	/	Pass
		5825	11.10	11.65	14.39	/	Pass
802.11n (HT40)	MIMO	5190	11.18	11.96	14.60	<=23.01	Pass
		5230	11.46	12.02	14.76	<=23.01	Pass
		5755	12.11	11.30	14.73	/	Pass
		5795	11.68	11.63	14.67	/	Pass
802.11ac (VHT20)	MIMO	5180	11.00	11.68	14.36	<=23.01	Pass
		5200	11.09	11.95	14.55	<=23.01	Pass
		5240	11.50	11.77	14.65	<=23.01	Pass
		5745	11.45	10.98	14.23	/	Pass
		5785	11.58	11.14	14.38	/	Pass
		5825	11.31	11.82	14.58	/	Pass
802.11ac (VHT40)	MIMO	5190	11.24	12.06	14.68	<=23.01	Pass
		5230	11.73	12.09	14.92	<=23.01	Pass
		5755	12.82	12.11	15.49	/	Pass
		5795	12.45	12.27	15.37	/	Pass
802.11ac (VHT80)	MIMO	5210	11.56	10.61	14.12	<=23.01	Pass
		5775	12.24	11.80	15.04	/	Pass

Note1: For U-NII-1 Antenna Gain: Ant1: 2.15dBi; Ant2: 2.33dBi; Directional gain:5.25dBi.
For U-NII-3 Antenna Gain: Ant1: 2.54dBi; Ant2: 2.52dBi; Directional gain:5.59dBi.
Note2: E.I.R.P = Measured Power + Antenna Gain



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3.1.2 Test Graph



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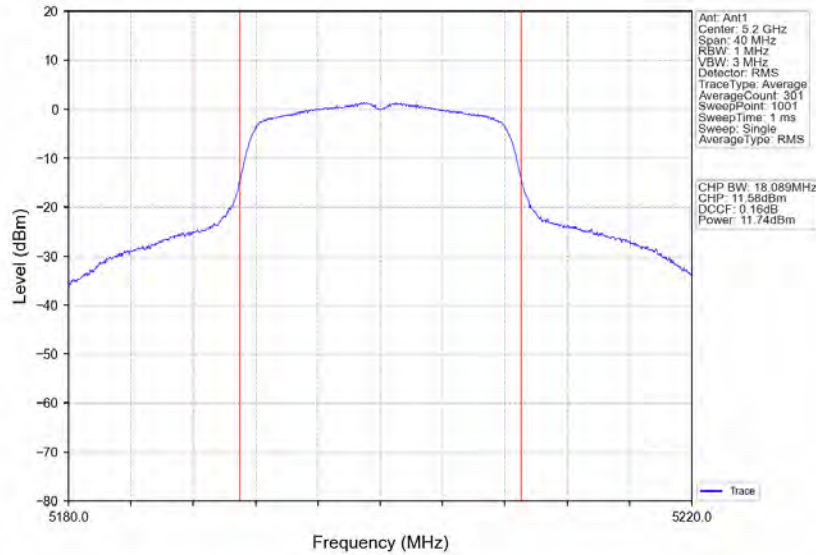
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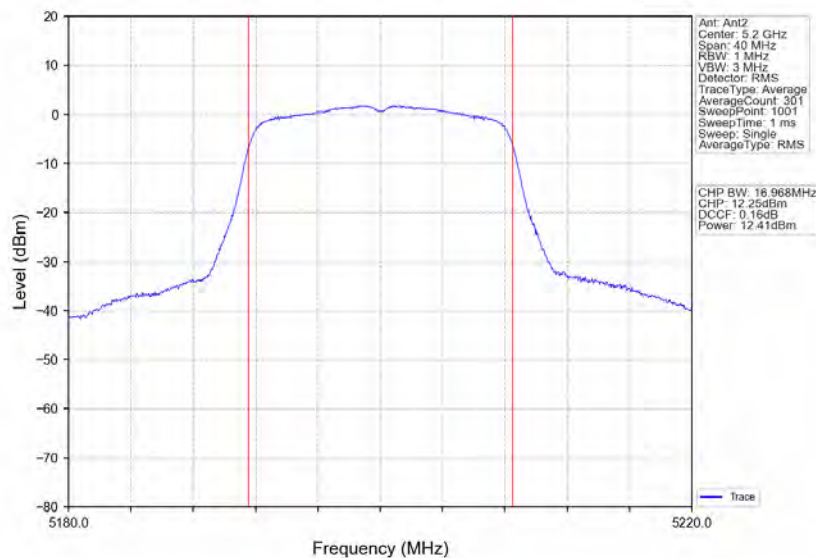
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802.11a_MCH_5200MHz_Ant2_NTNV



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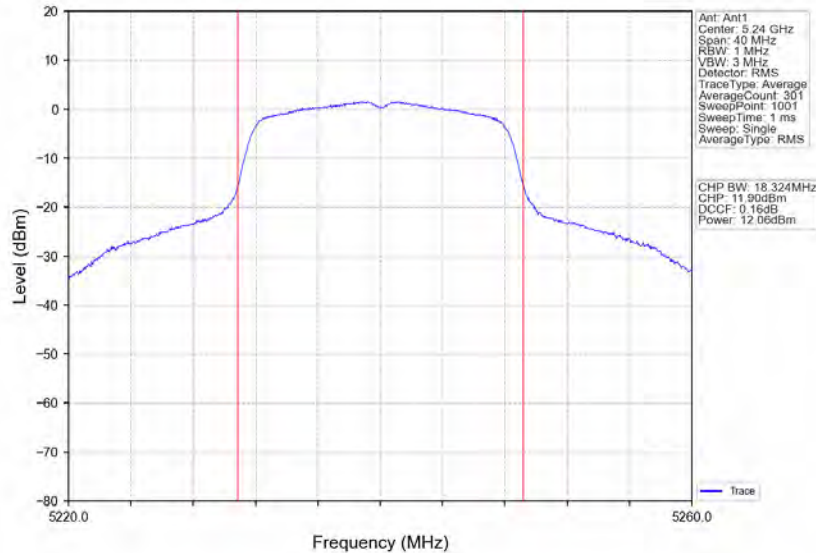
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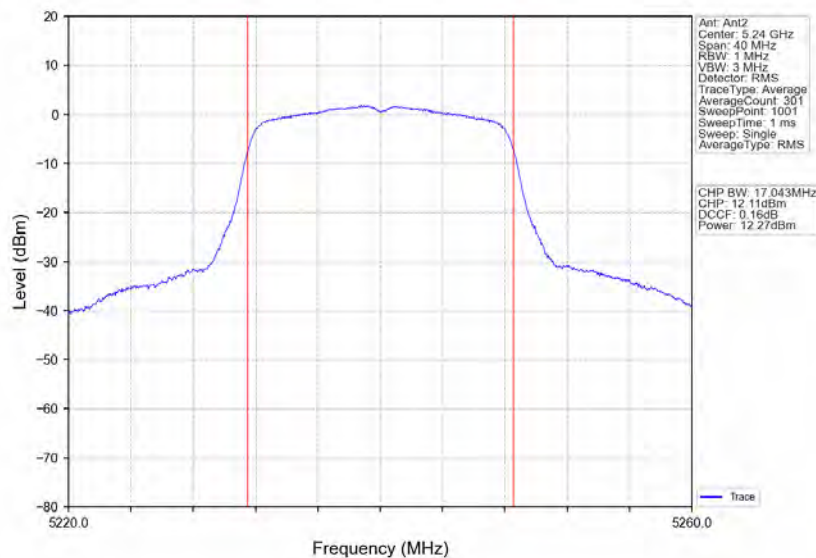
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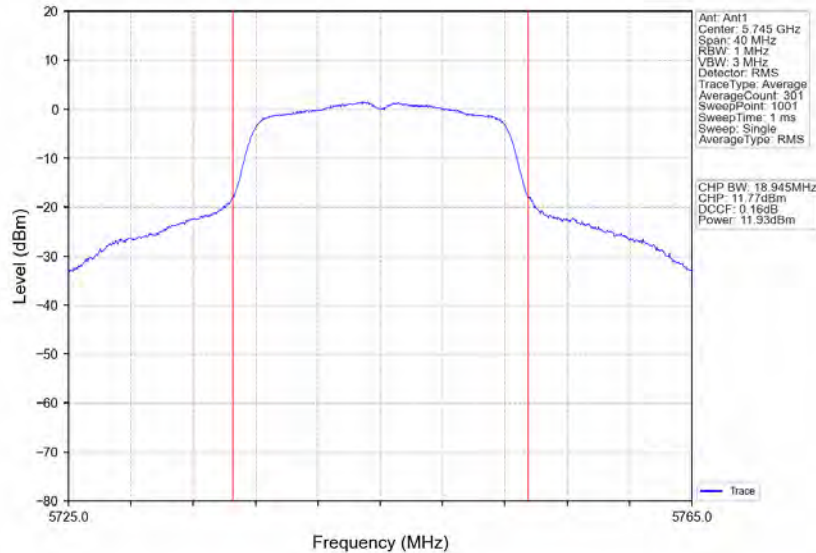
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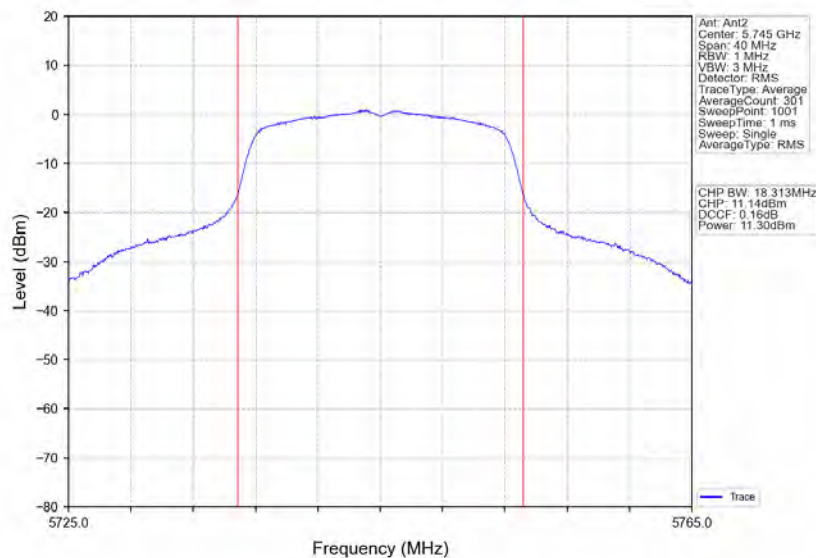
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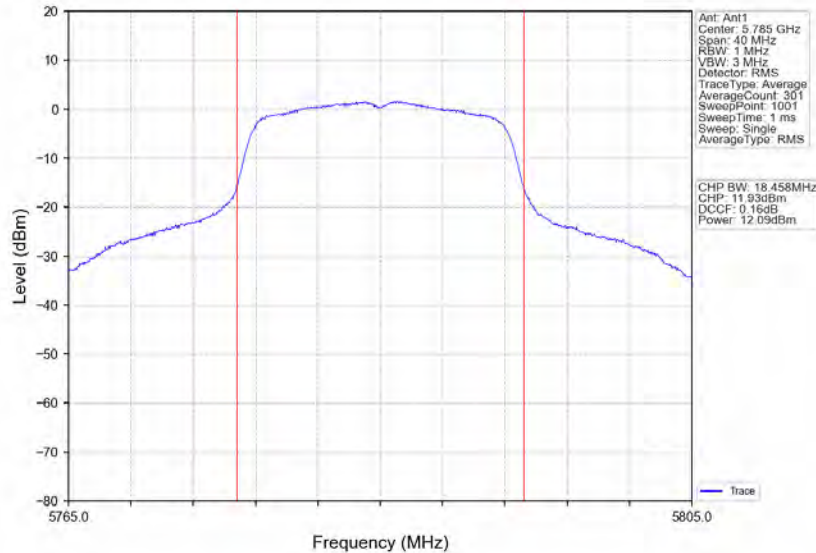
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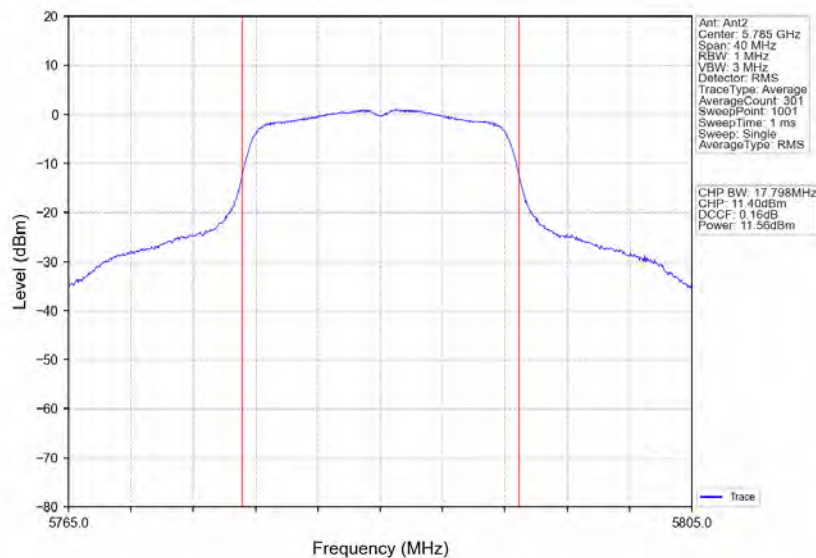
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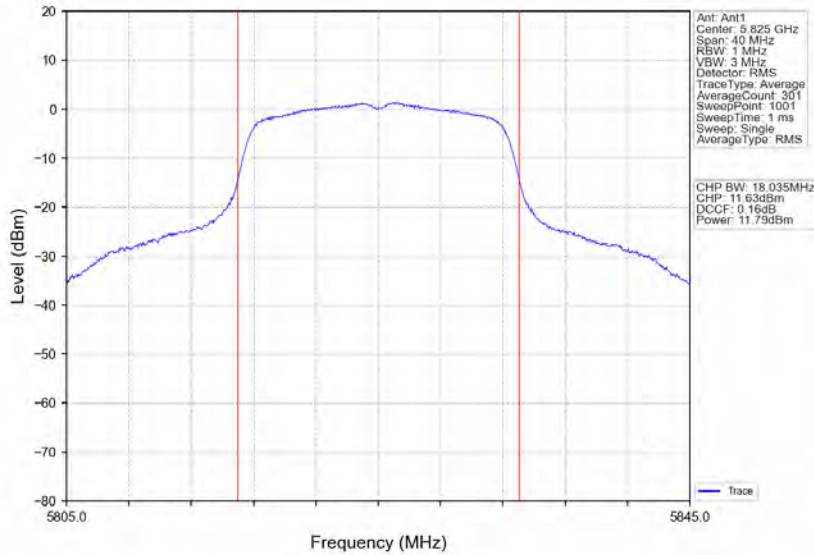
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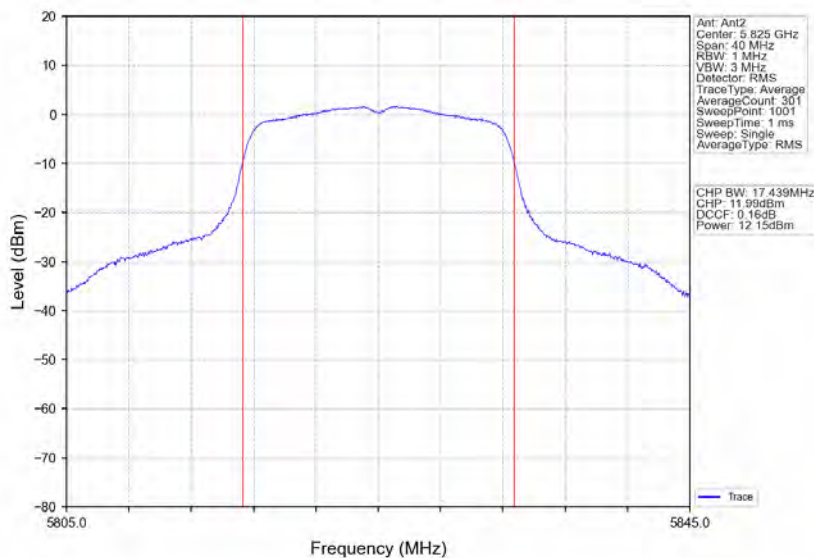
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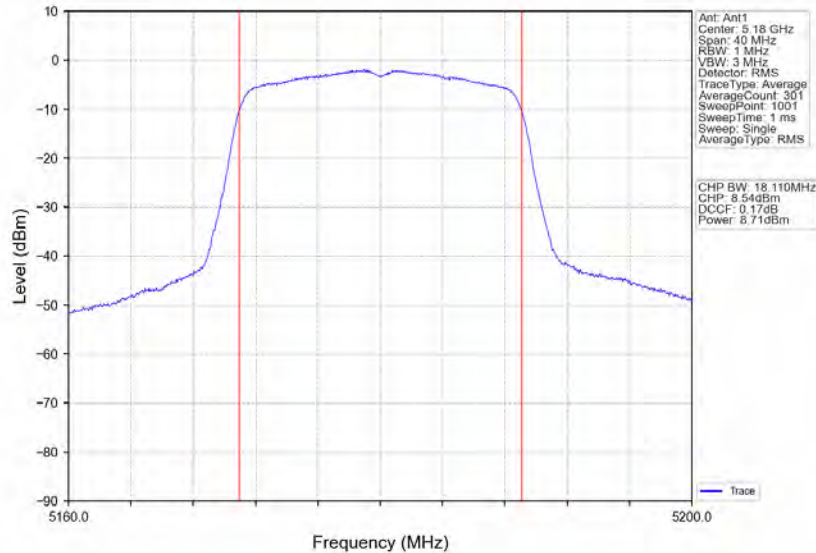
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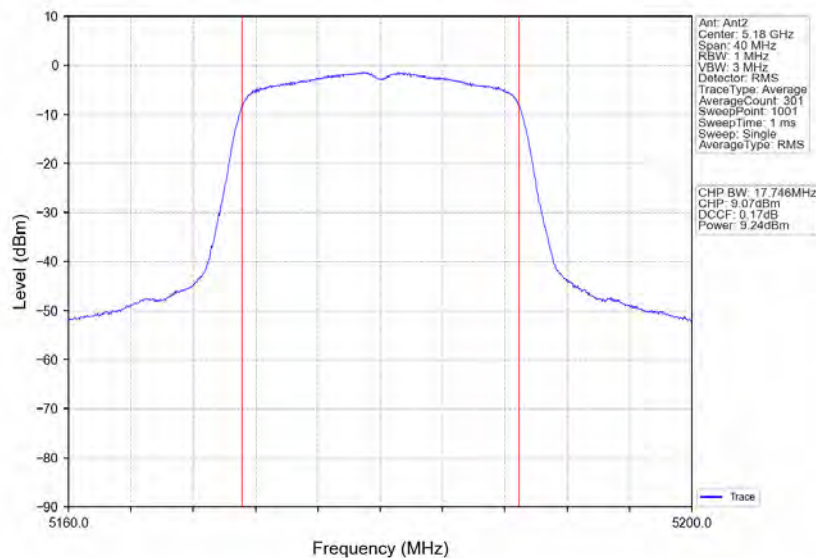
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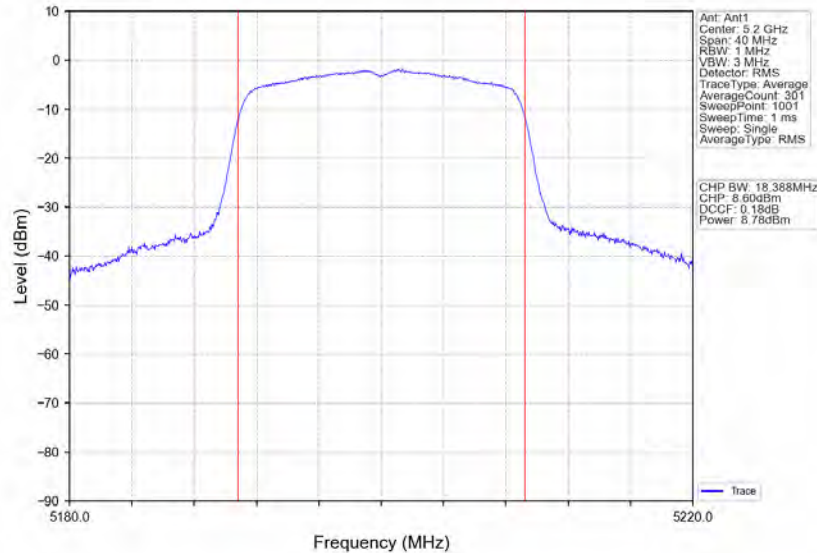
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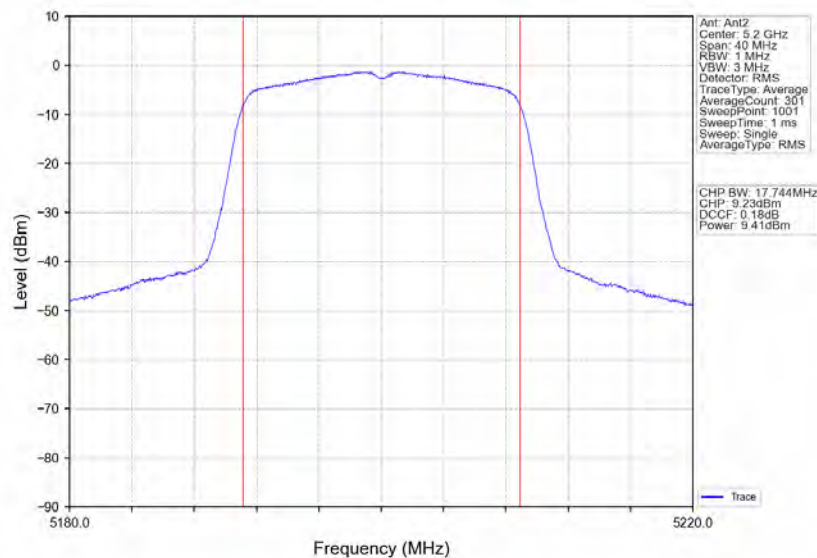
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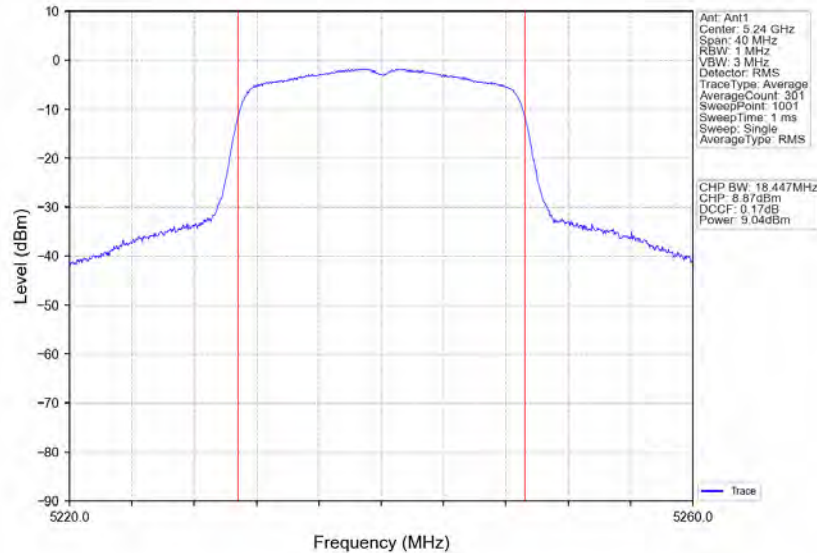
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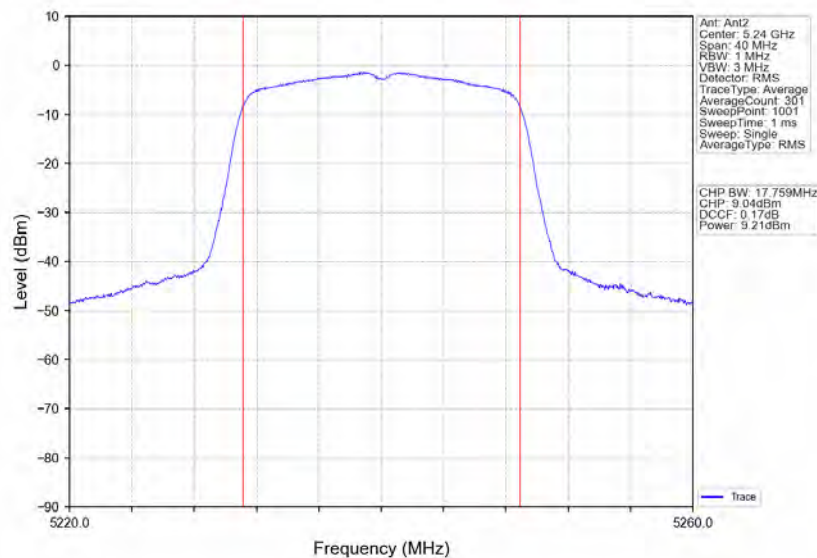
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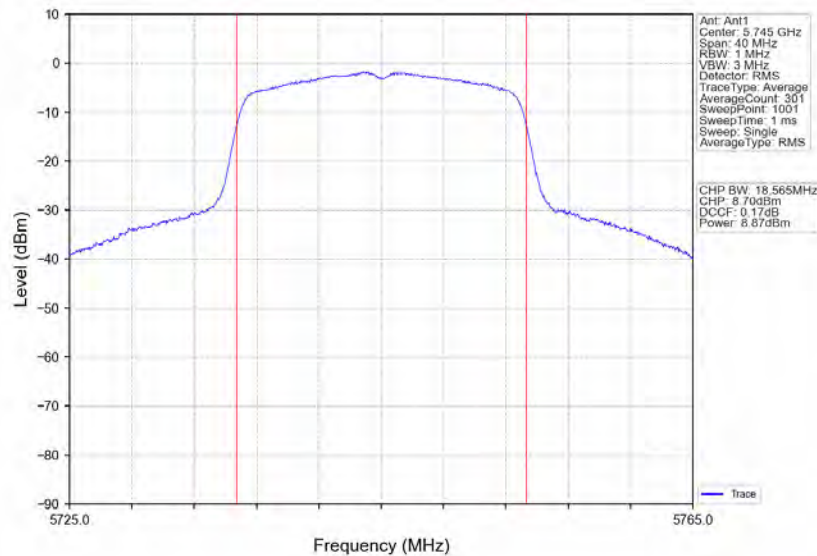
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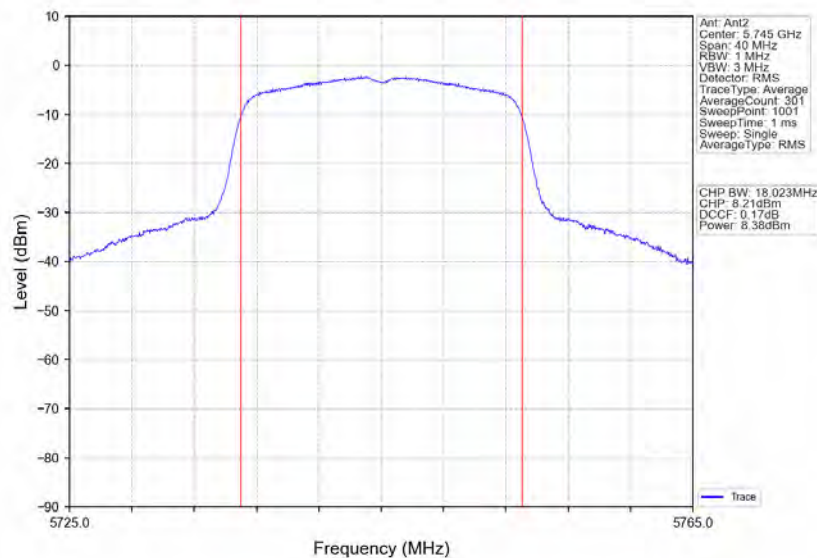
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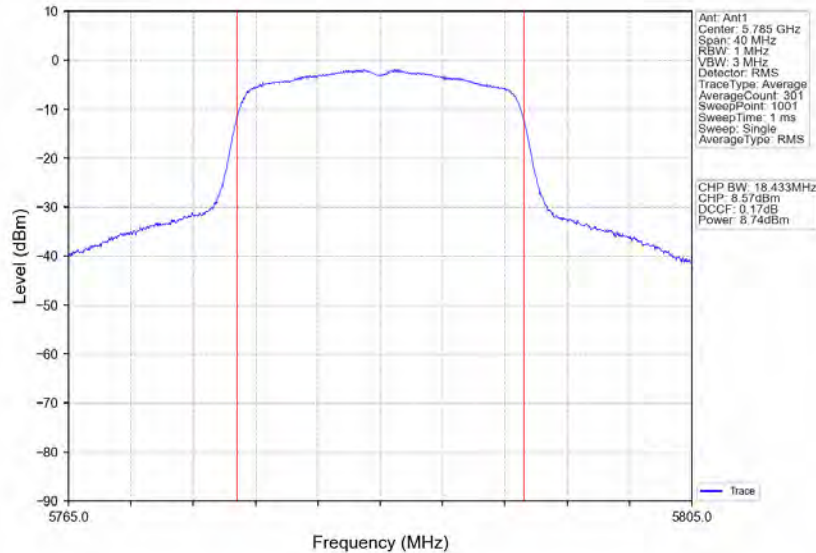
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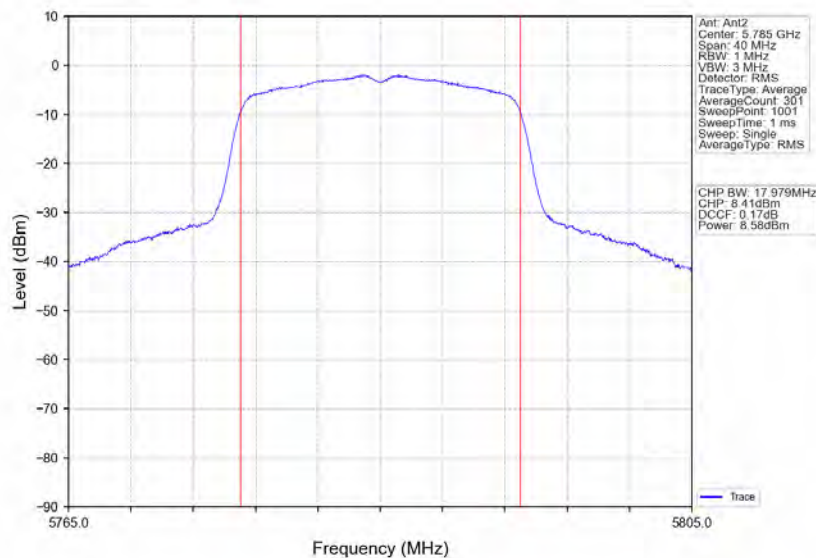
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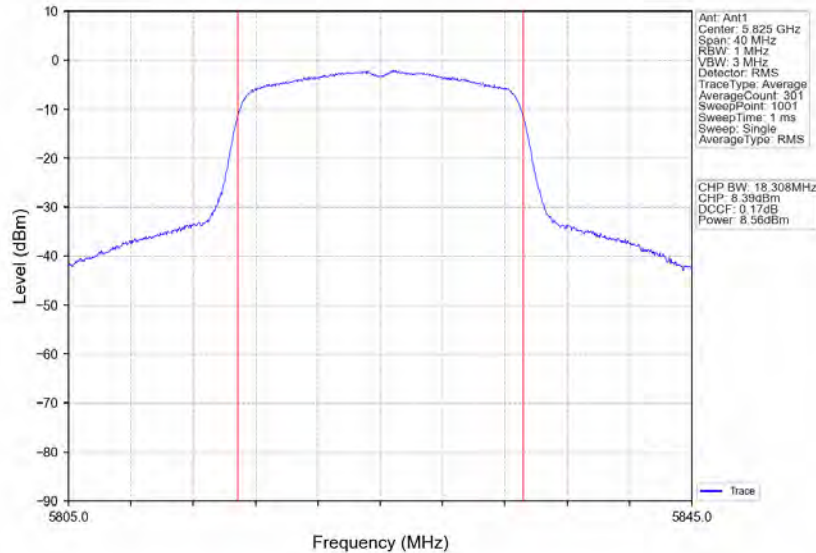
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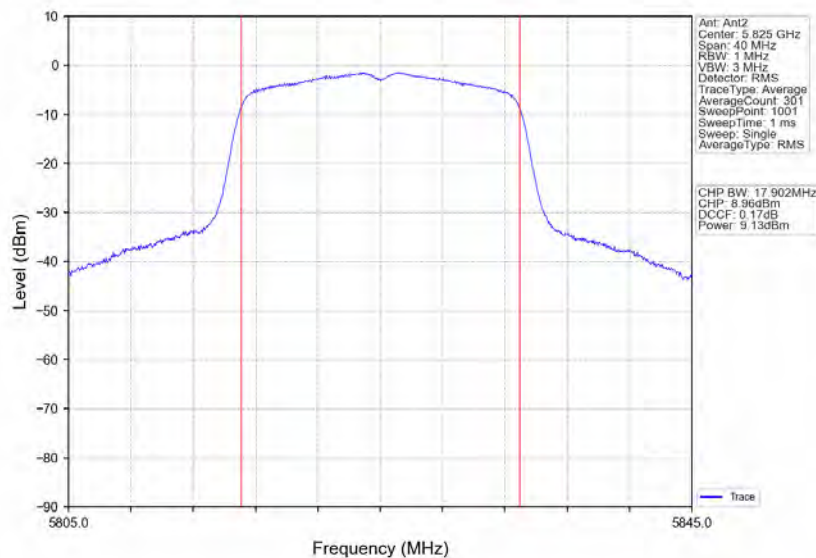
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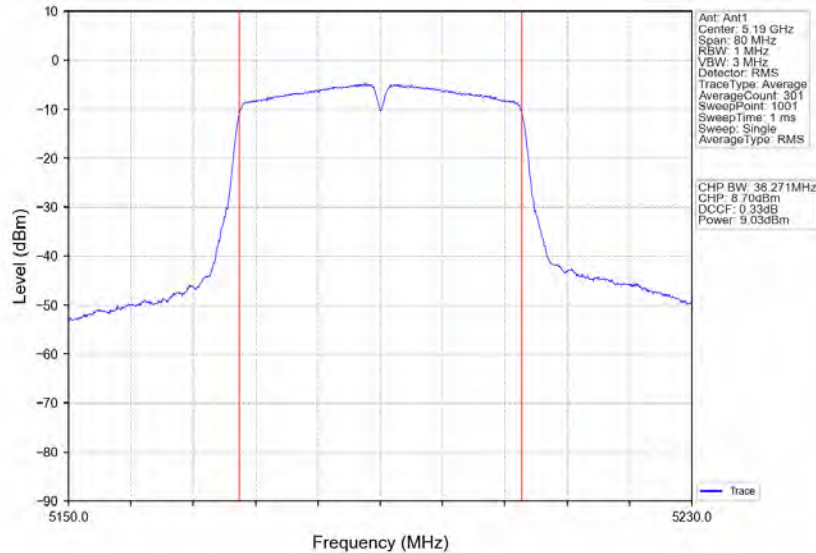
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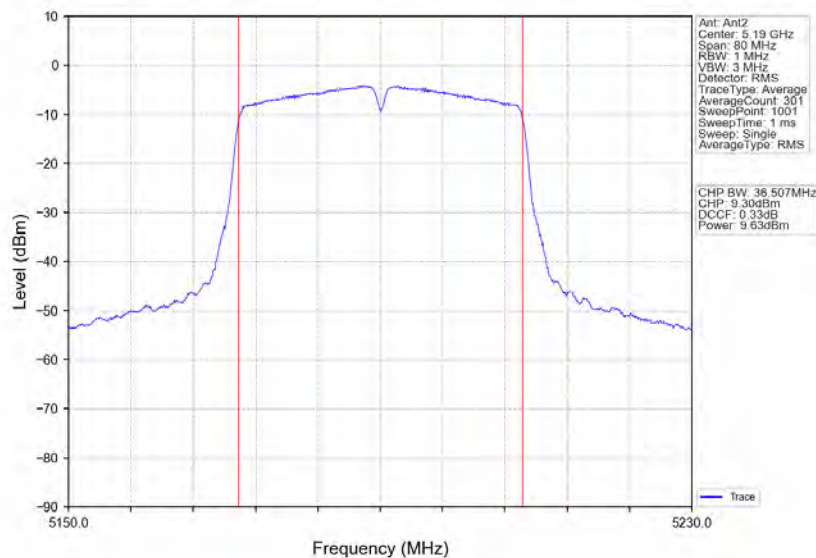
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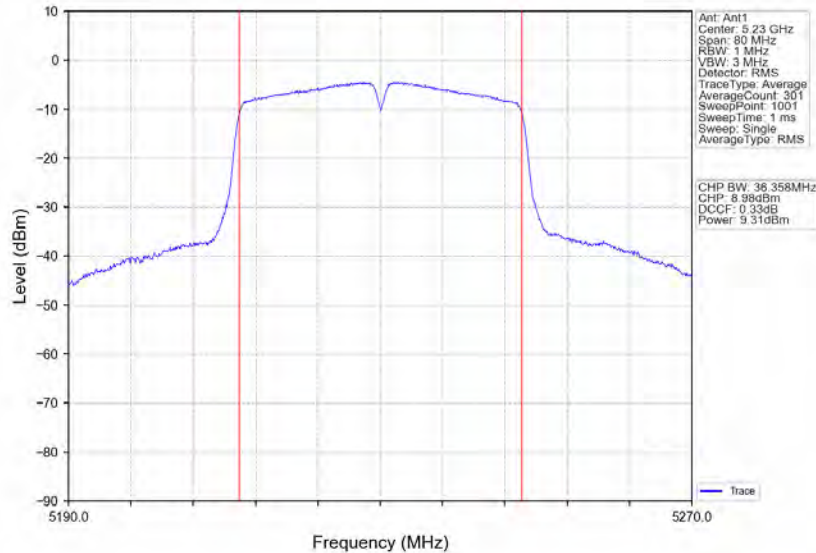
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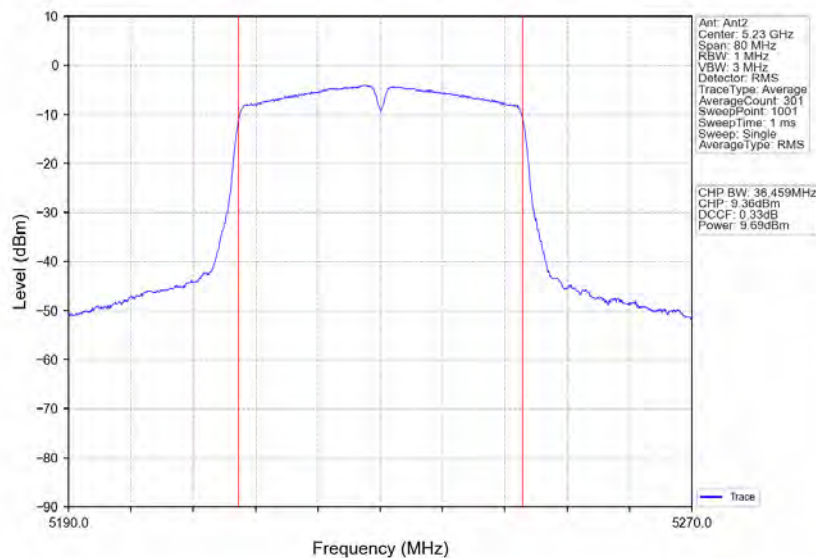
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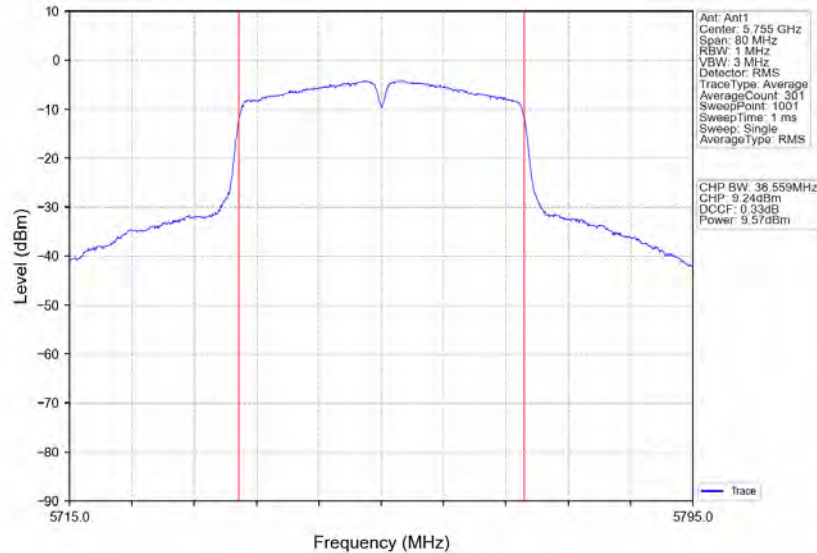
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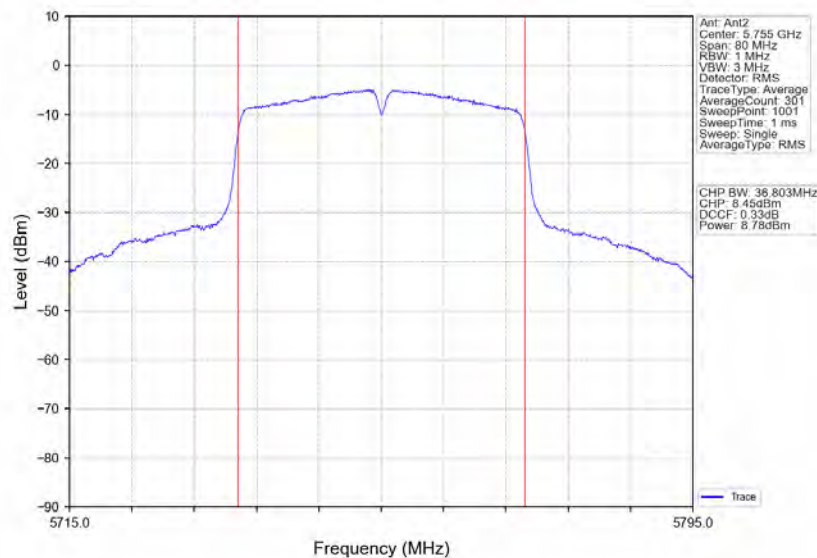
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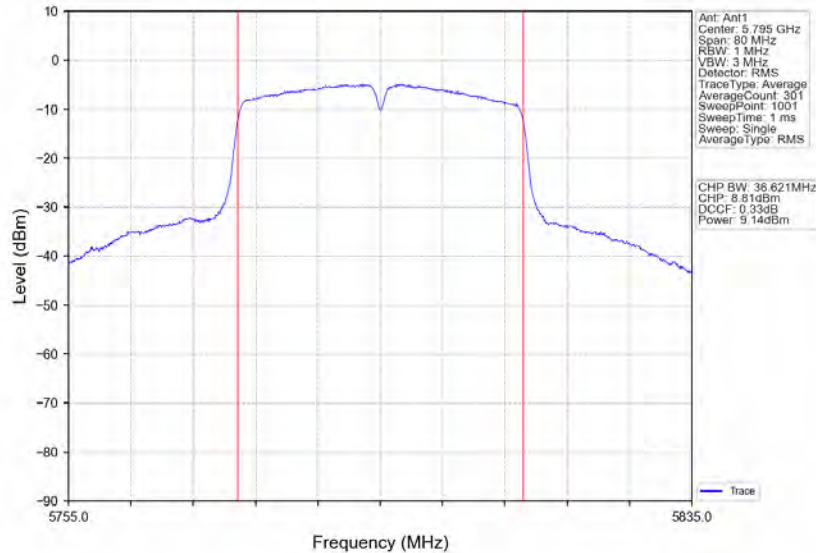
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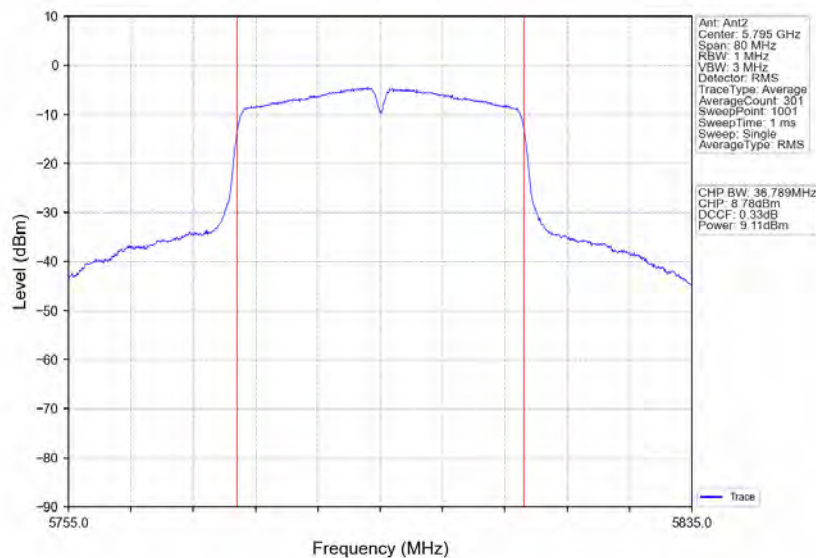
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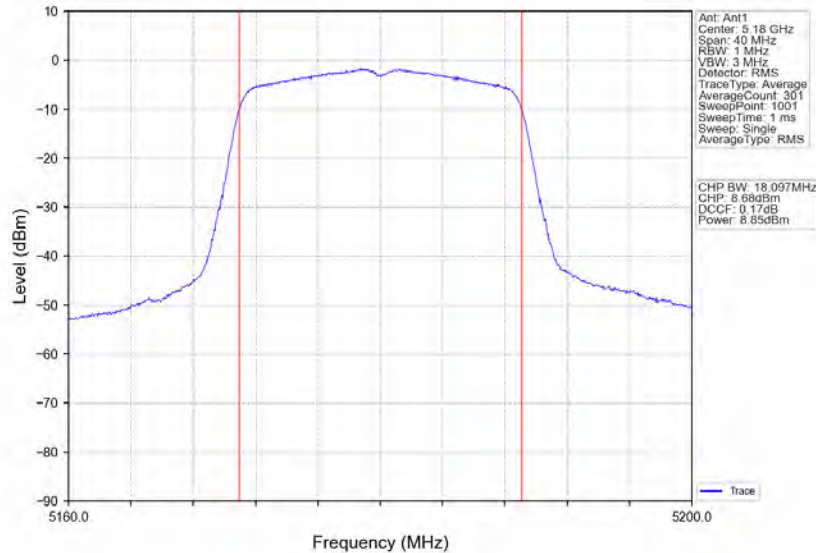
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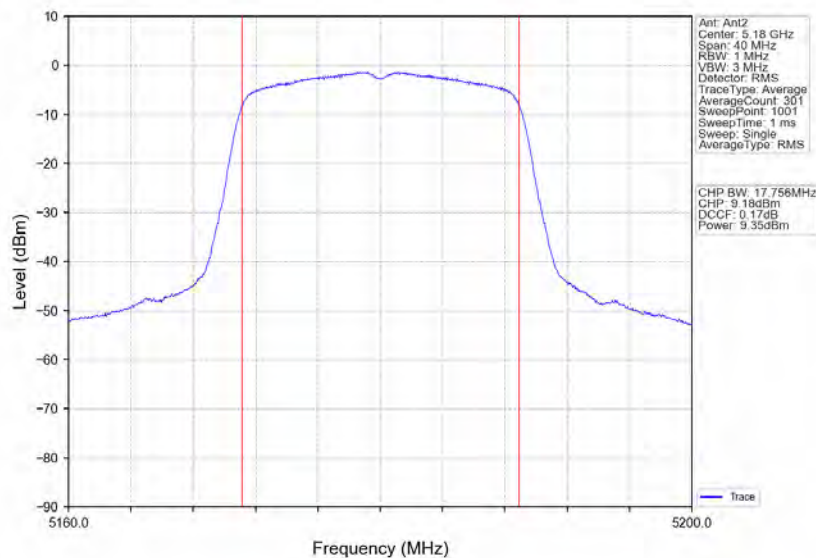
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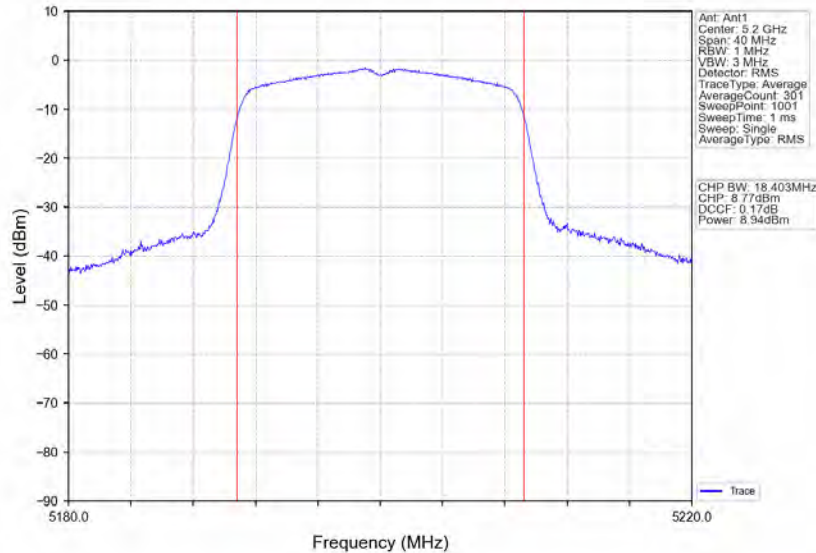
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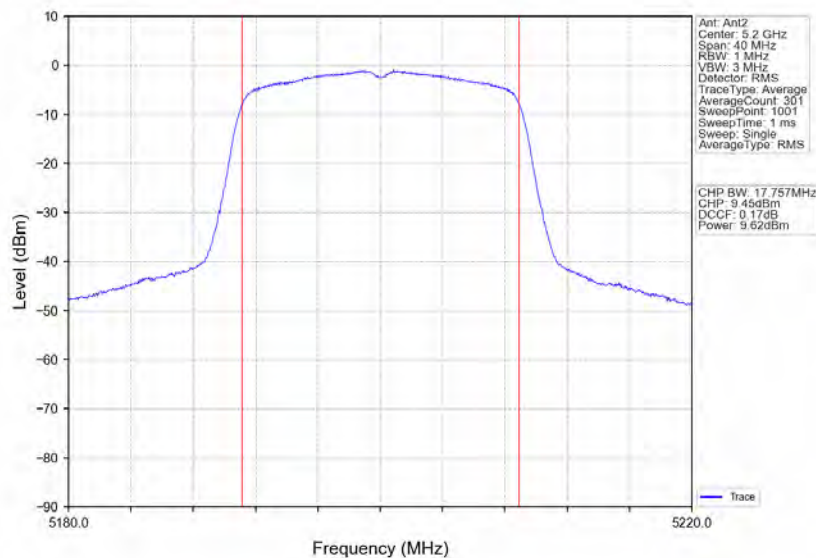
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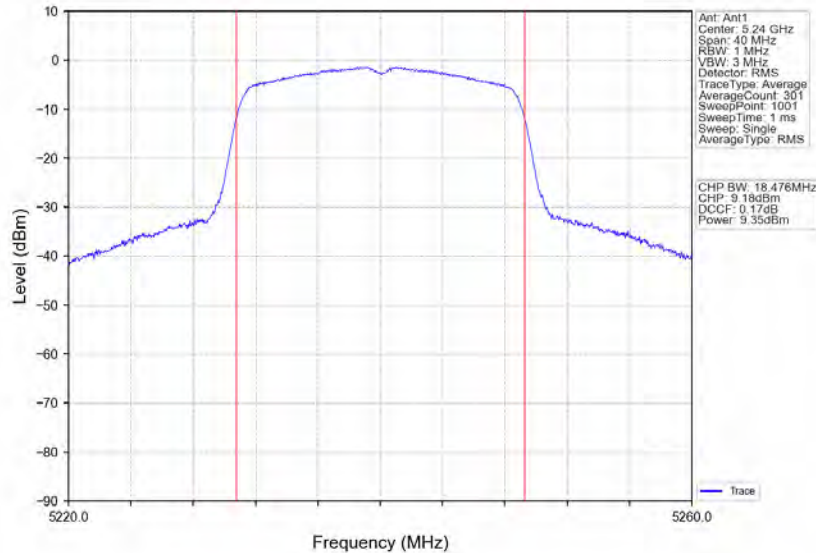
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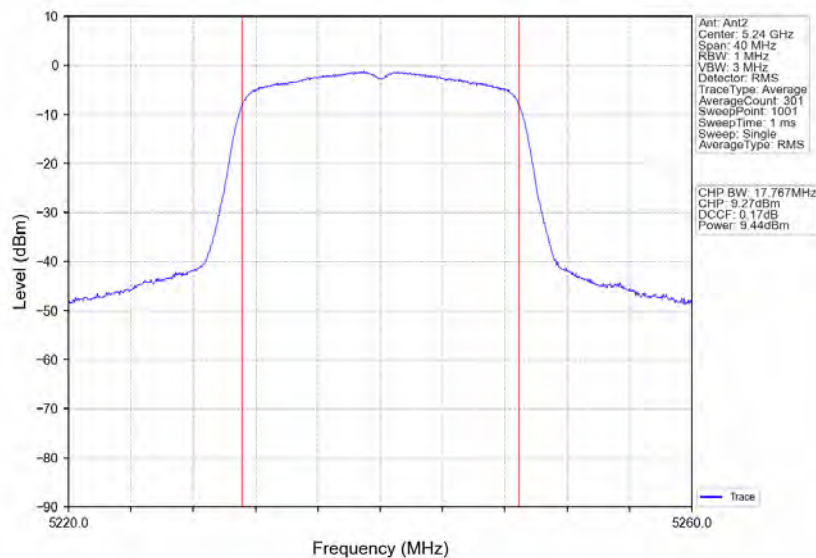
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



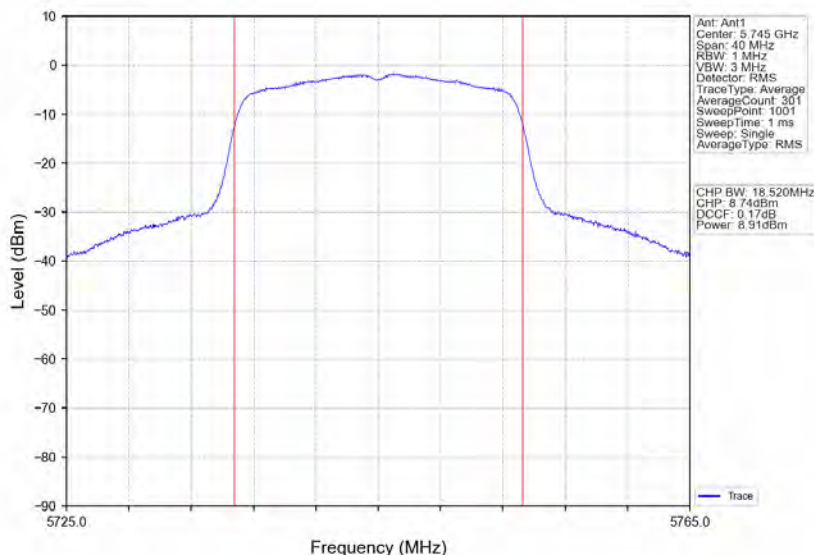
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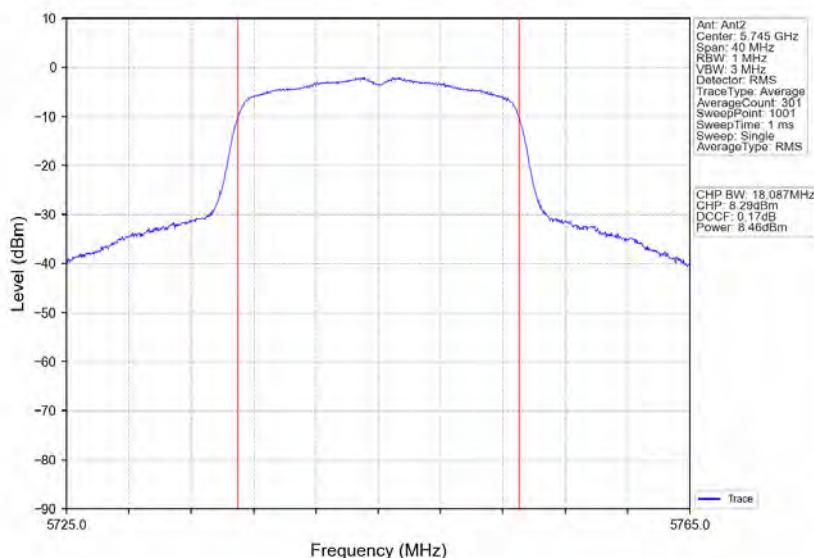
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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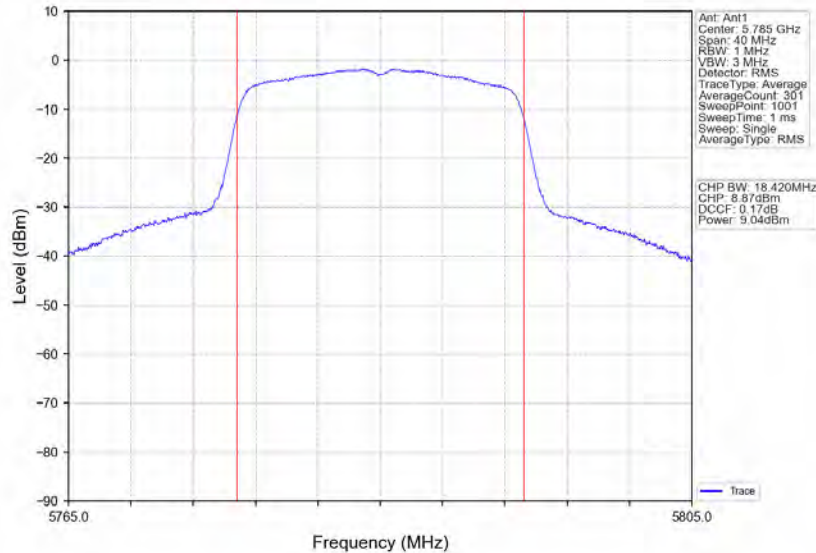
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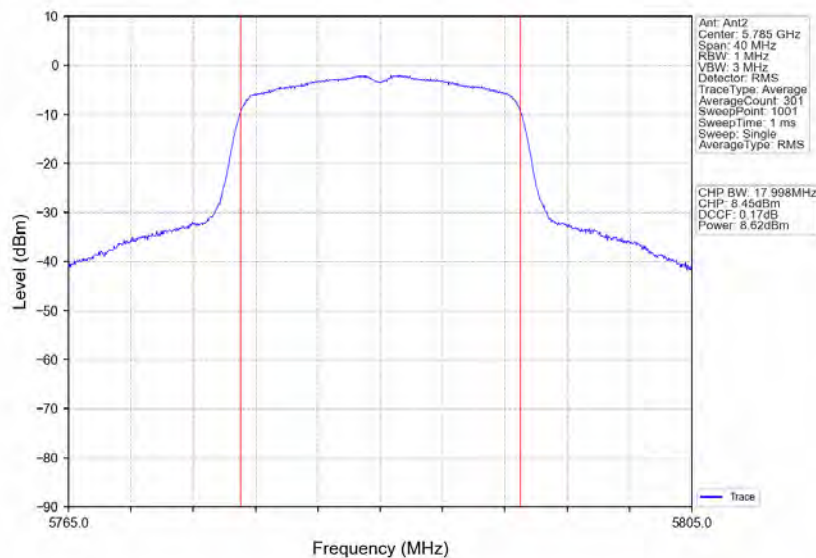
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



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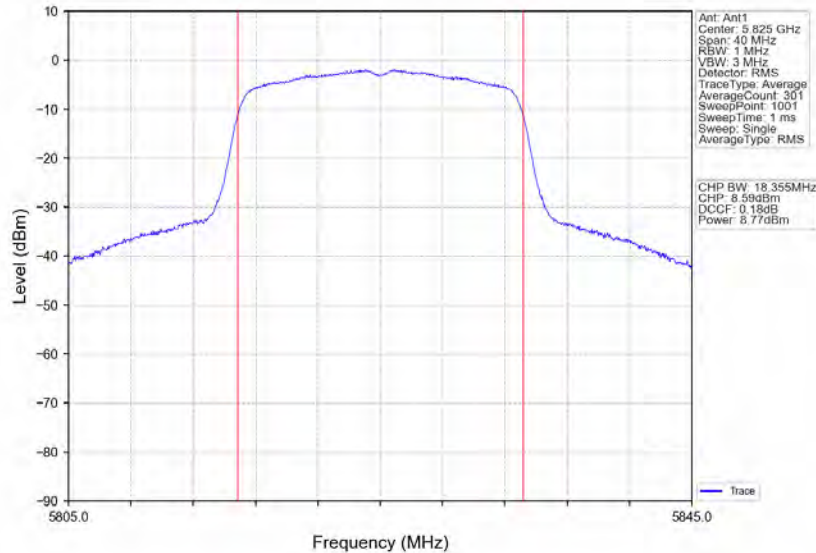
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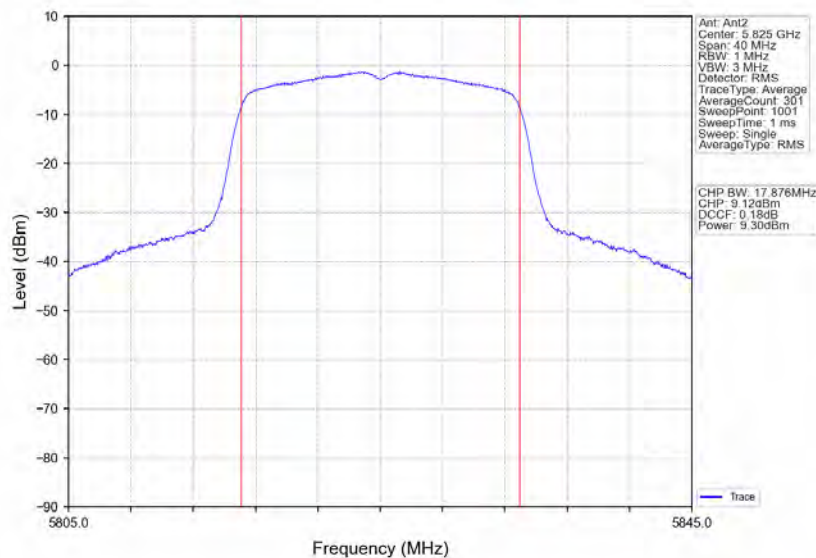
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



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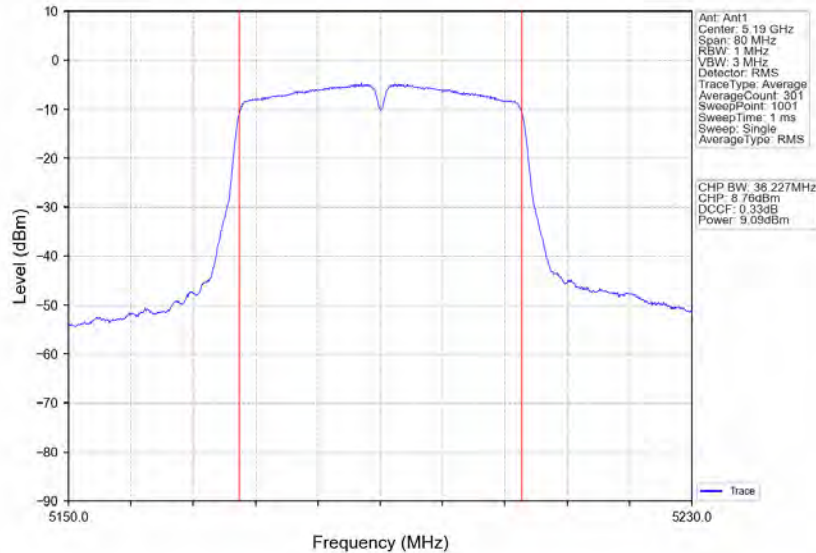
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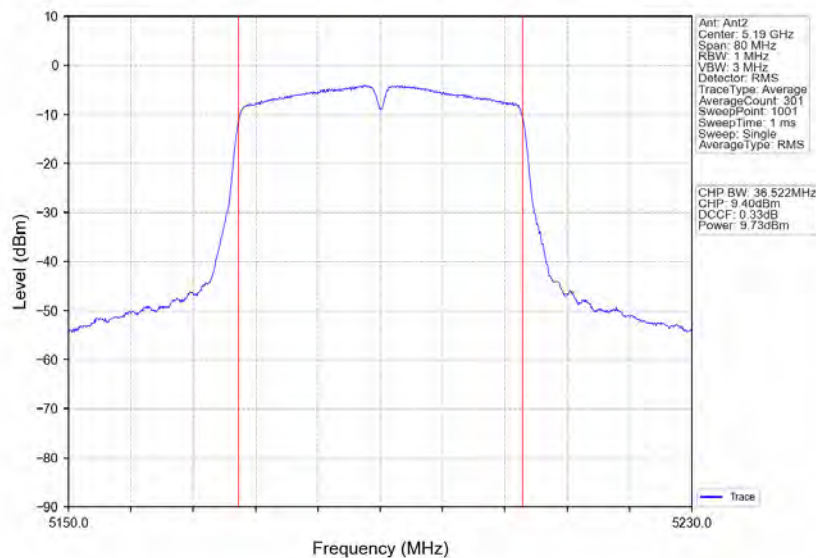
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



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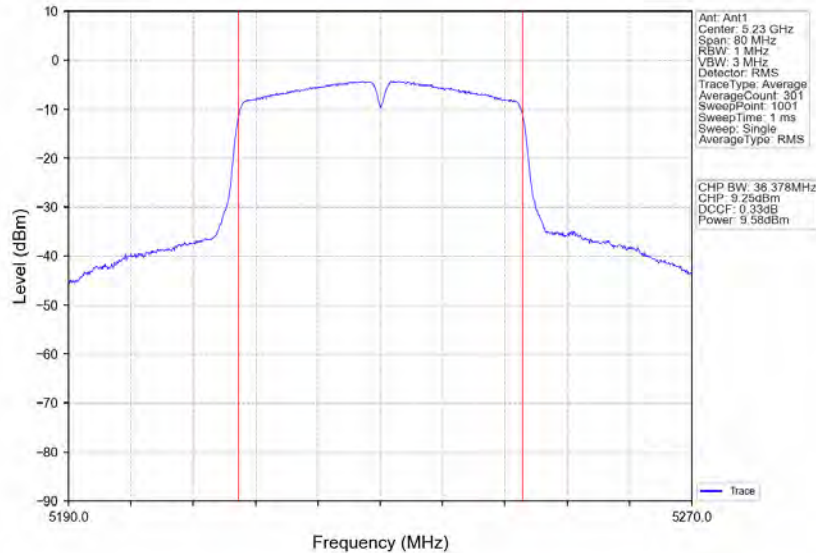
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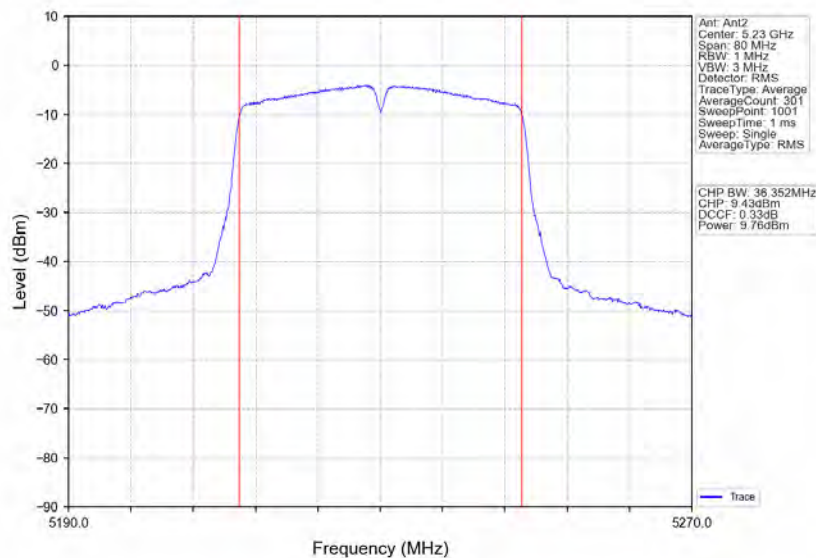
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



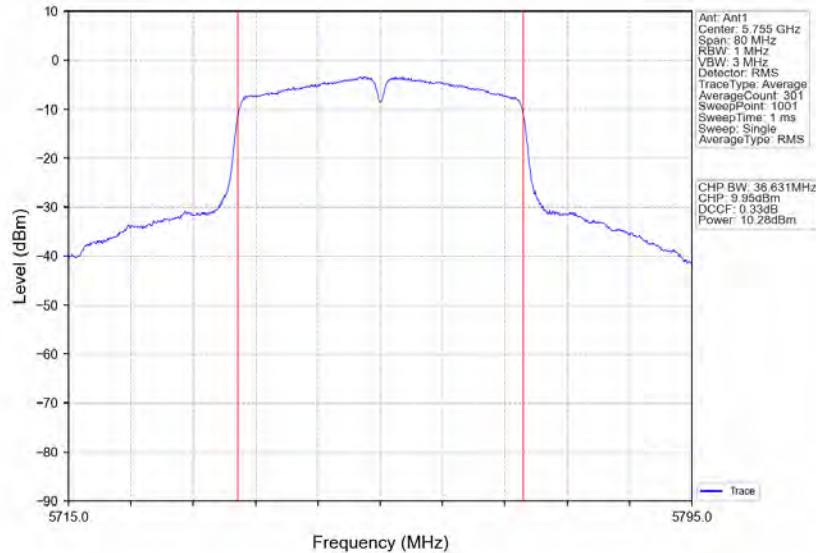
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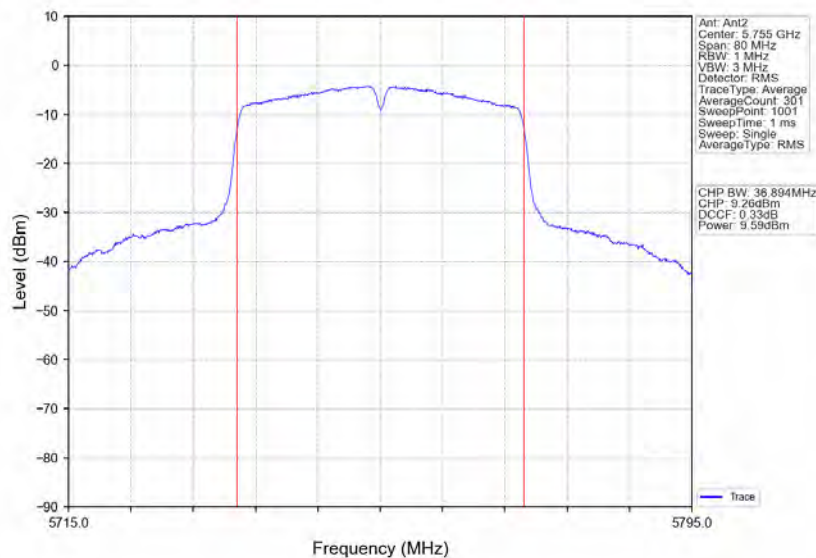
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802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



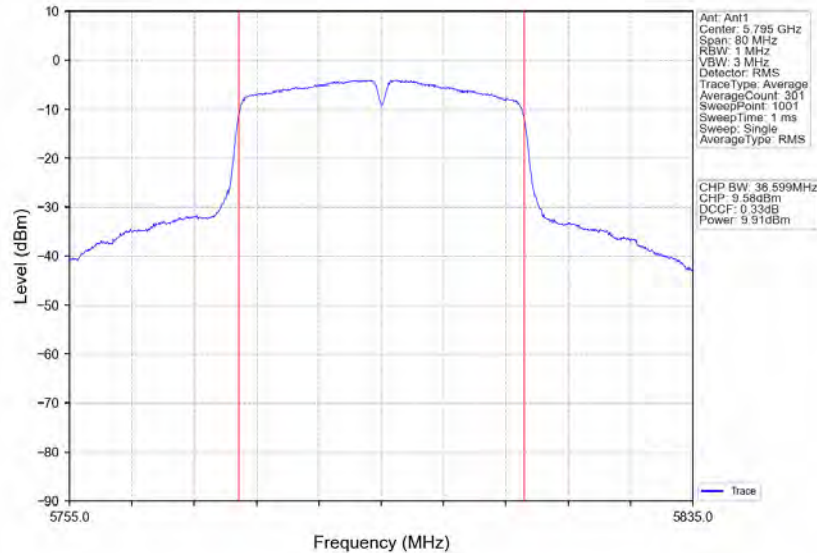
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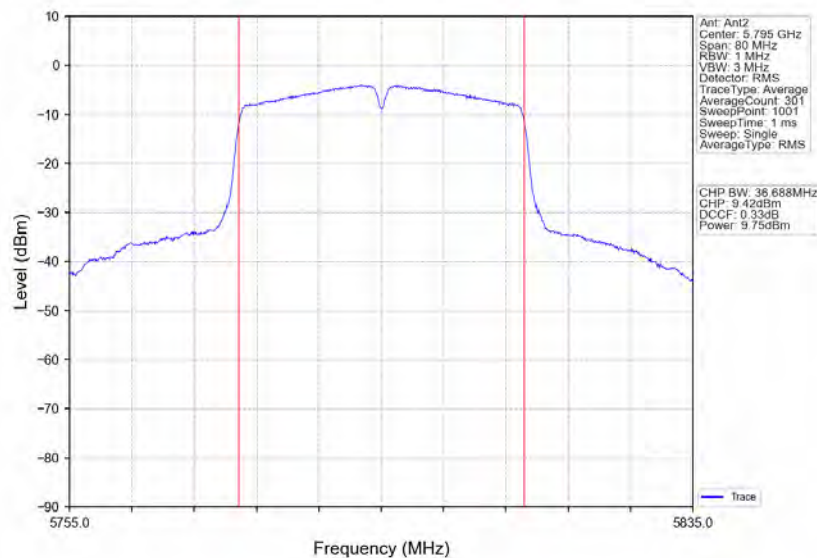
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



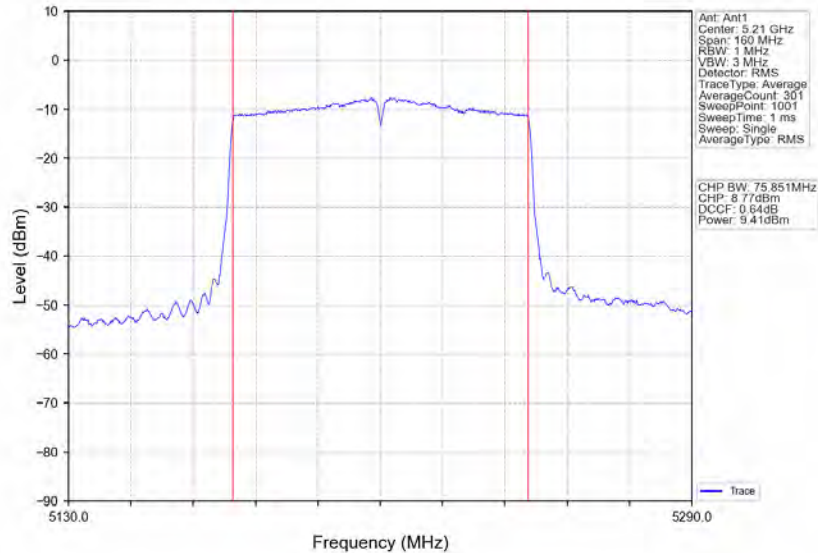
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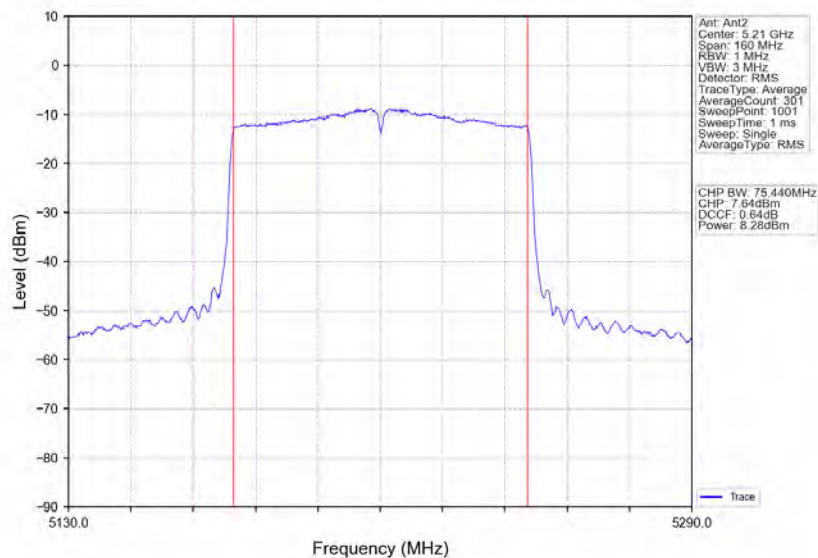
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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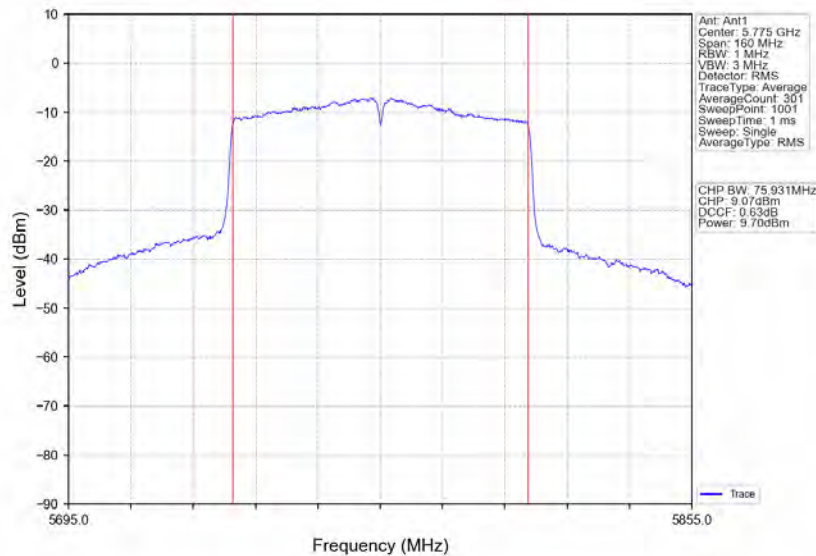
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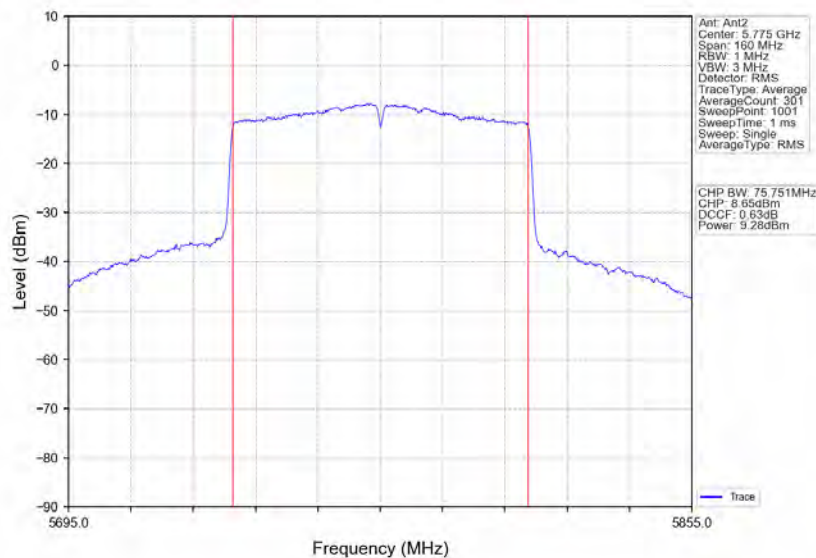
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802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result for FCC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	1.62	2.21	/	<=11	Pass
		5200	1.61	2.28	/	<=11	Pass
		5240	1.89	2.12	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.74	-1.05	1.55	<=11	Pass
		5200	-1.66	-0.91	1.68	<=11	Pass
		5240	-1.40	-1.24	1.65	<=11	Pass
802.11n (HT40)	MIMO	5190	-4.58	-3.84	-1.30	<=11	Pass
		5230	-4.08	-3.72	-0.97	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-1.52	-0.96	1.76	<=11	Pass
		5200	-1.31	-0.83	1.89	<=11	Pass
		5240	-1.02	-0.91	1.93	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-4.44	-3.63	-1.13	<=11	Pass
		5230	-3.87	-3.69	-0.90	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-7.19	-8.19	-4.71	<=11	Pass

Note1: For U-NII-1 Antenna Gain: Ant1: 2.15dBi; Ant2: 2.33dBi; Directional gain:5.25dBi.

Test Result for IC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			EIRP PSD (dBm/MHz)			Limit	Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO		
802.11a	SISO	5180	1.62	2.21	/	3.77	4.54	/	<=10	Pass
		5200	1.61	2.28	/	3.76	4.61	/	<=10	Pass
		5240	1.89	2.12	/	4.04	4.45	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-1.74	-1.05	1.55	0.41	1.28	3.88	<=10	Pass
		5200	-1.66	-0.91	1.68	0.49	1.42	3.99	<=10	Pass
		5240	-1.40	-1.24	1.65	0.75	1.09	3.93	<=10	Pass
802.11n (HT40)	MIMO	5190	-4.58	-3.84	-1.30	-2.43	-1.51	1.06	<=10	Pass
		5230	-4.08	-3.72	-0.97	-1.93	-1.39	1.36	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-1.52	-0.96	1.76	0.63	1.37	4.03	<=10	Pass
		5200	-1.31	-0.83	1.89	0.84	1.50	4.19	<=10	Pass
		5240	-1.02	-0.91	1.93	1.13	1.42	4.29	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-4.44	-3.63	-1.13	-2.29	-1.30	1.24	<=10	Pass
		5230	-3.87	-3.69	-0.90	-1.72	-1.36	1.47	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-7.19	-8.19	-4.71	-5.04	-5.86	-2.42	<=10	Pass

Note1: For U-NII-1 Antenna Gain: Ant1: 2.15dBi; Ant2: 2.33dBi; Directional gain:5.25dBi.



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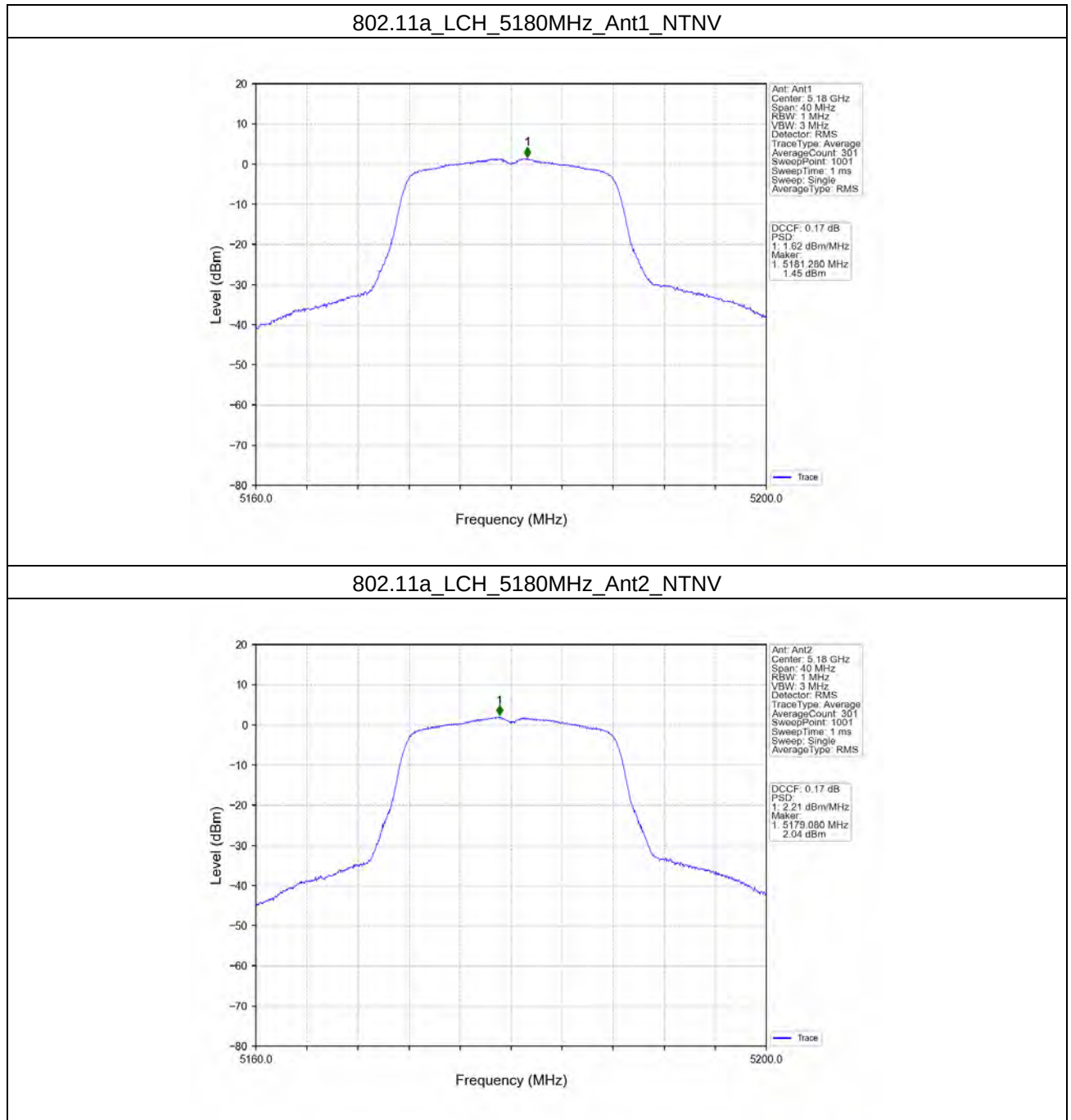
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4.1.2 Test Graph



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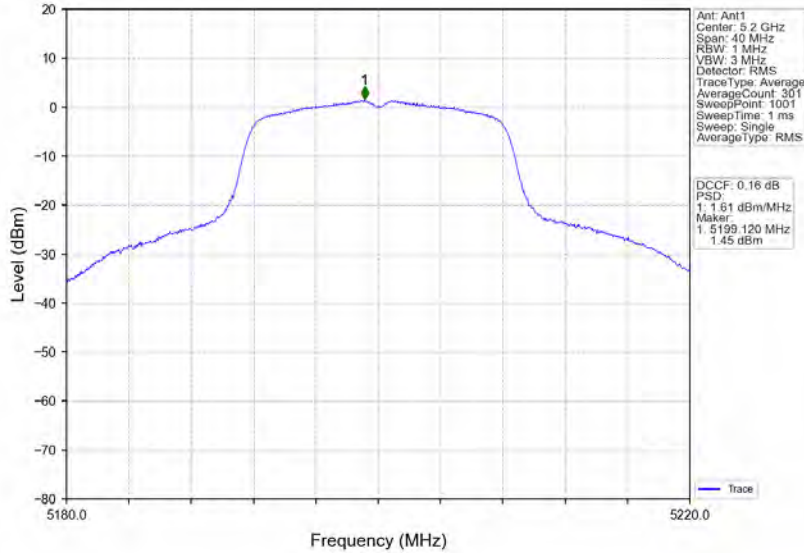
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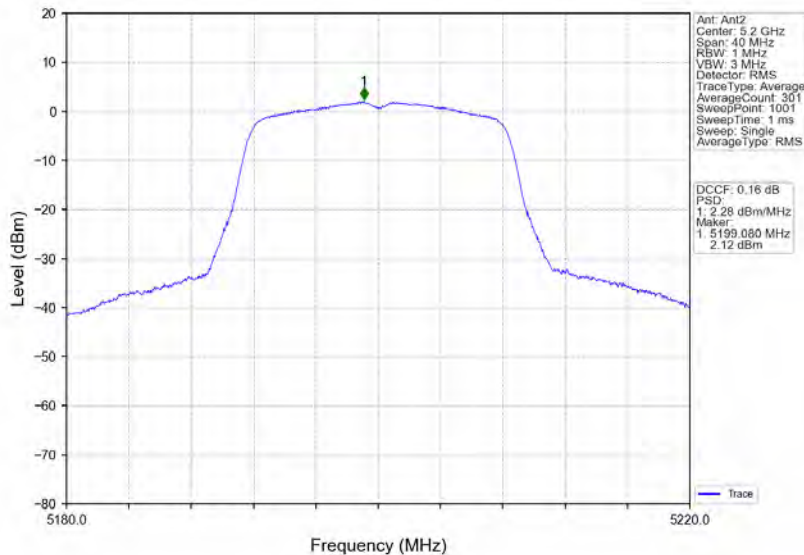
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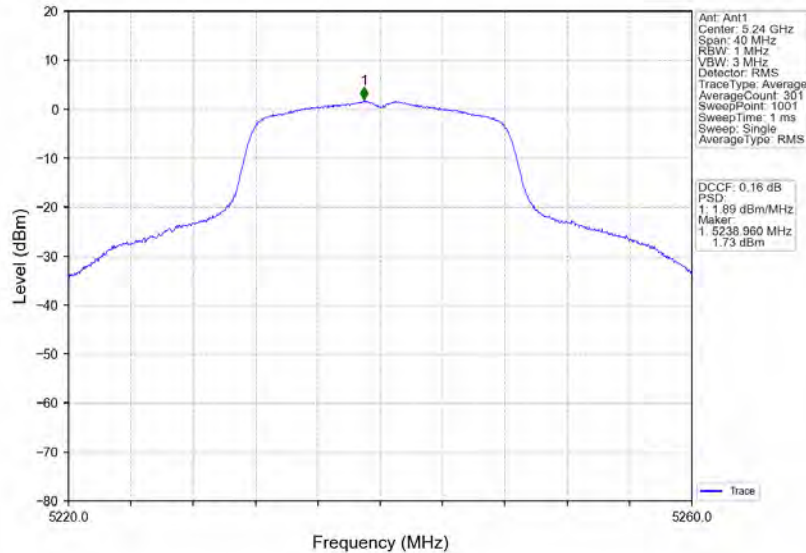
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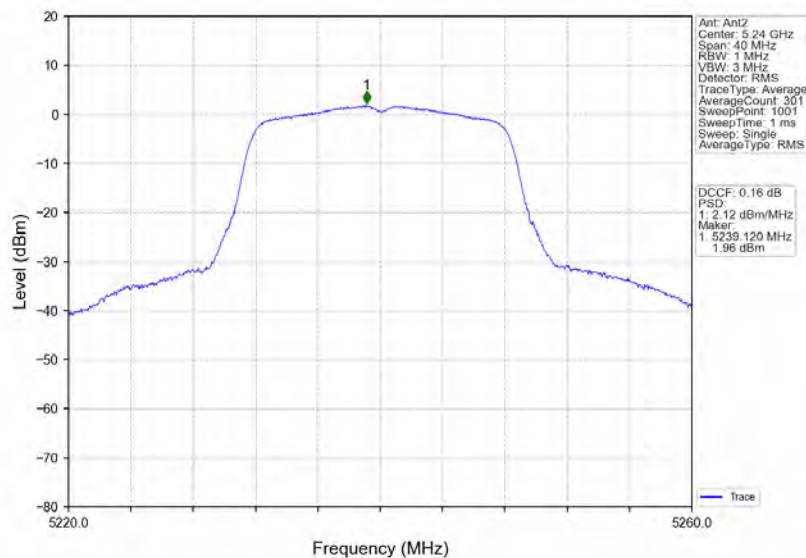
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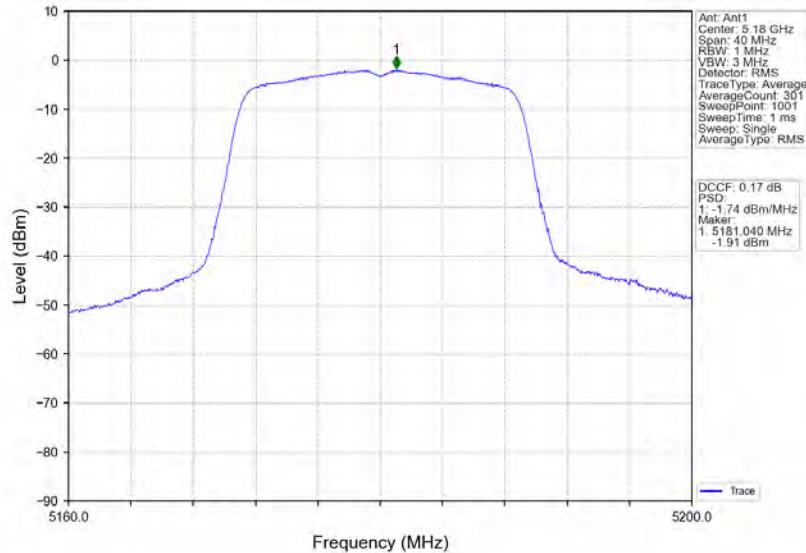
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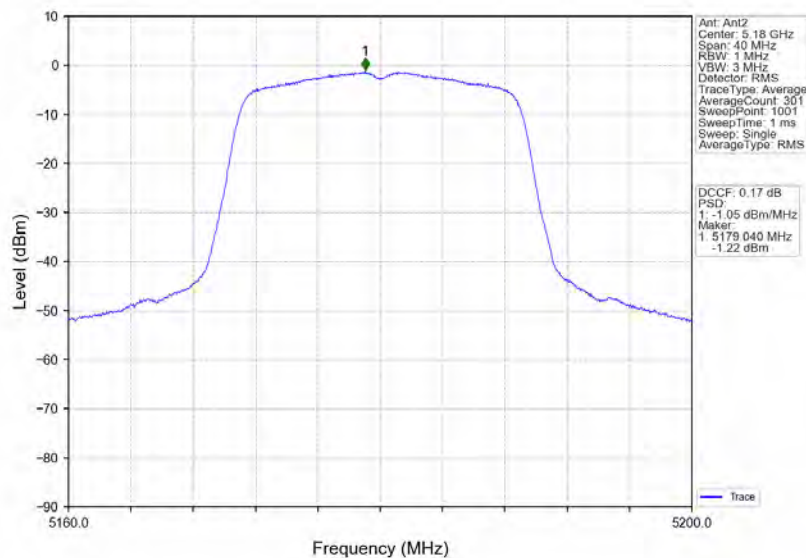
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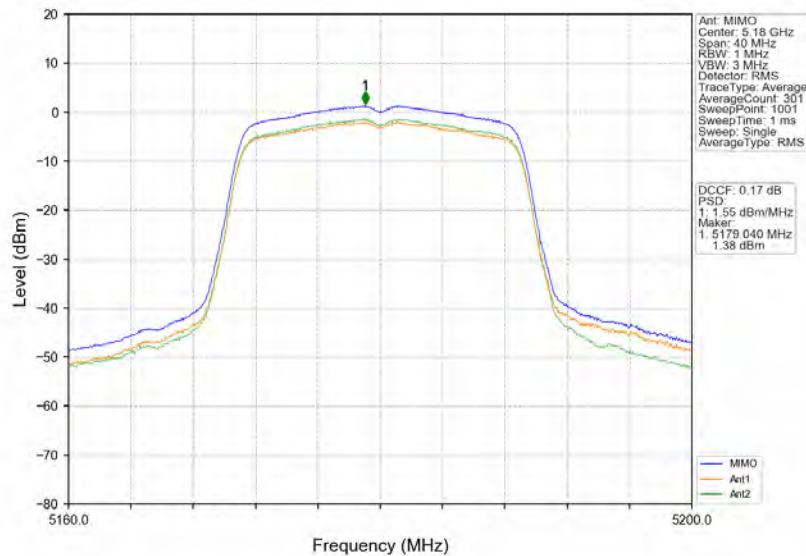
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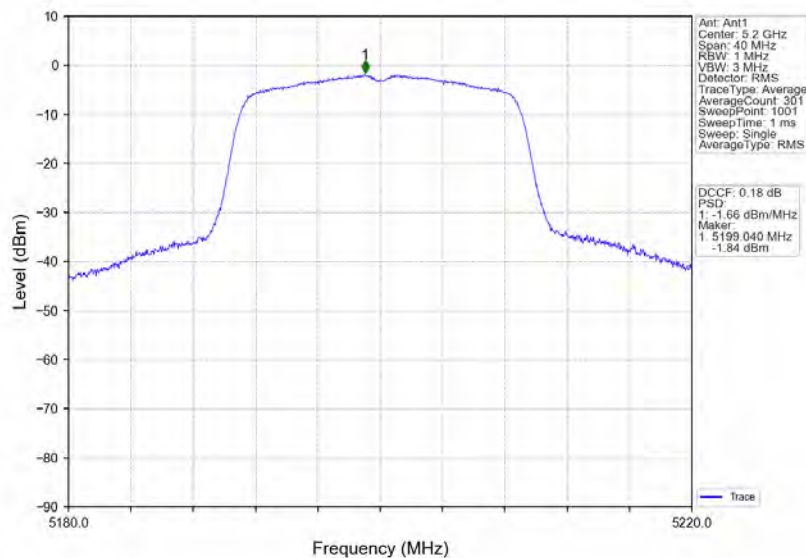
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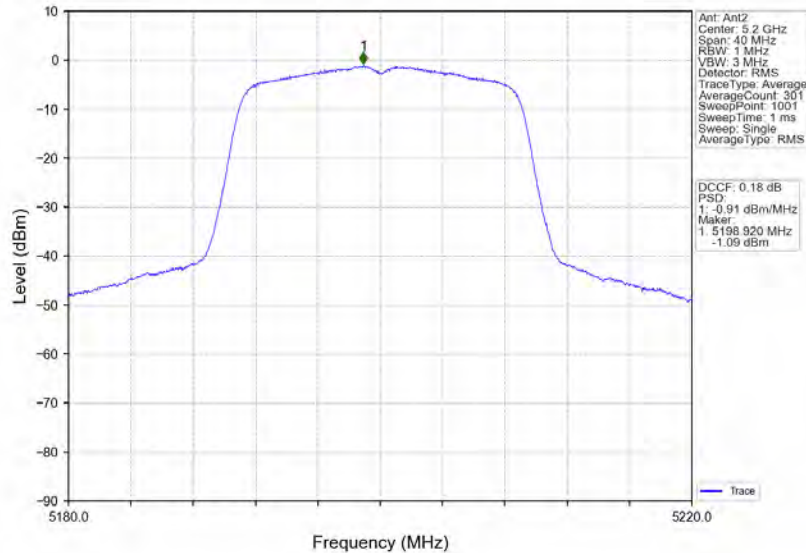
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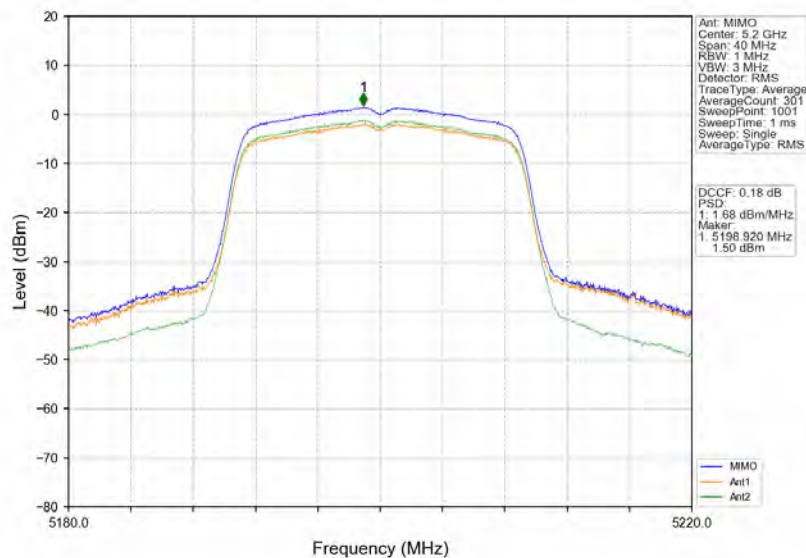
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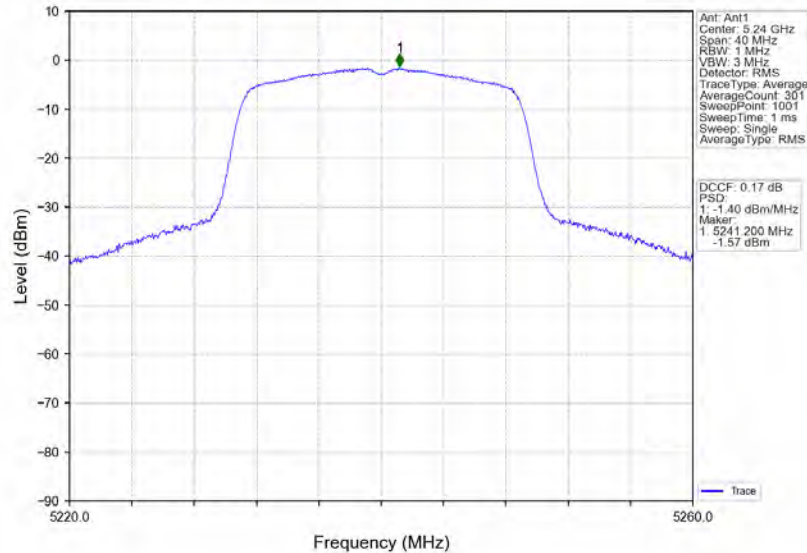
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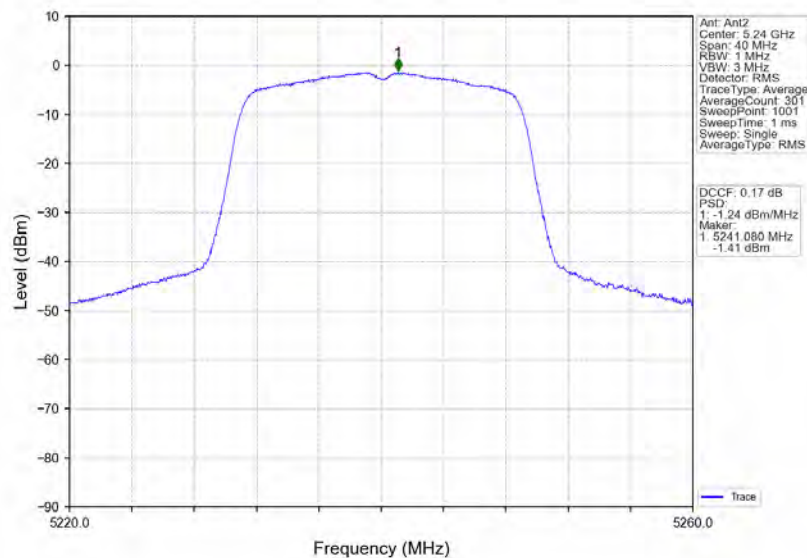
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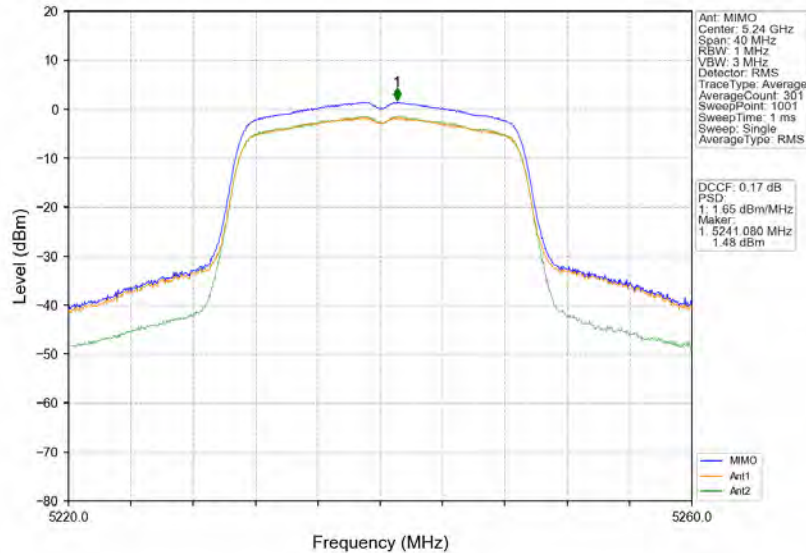
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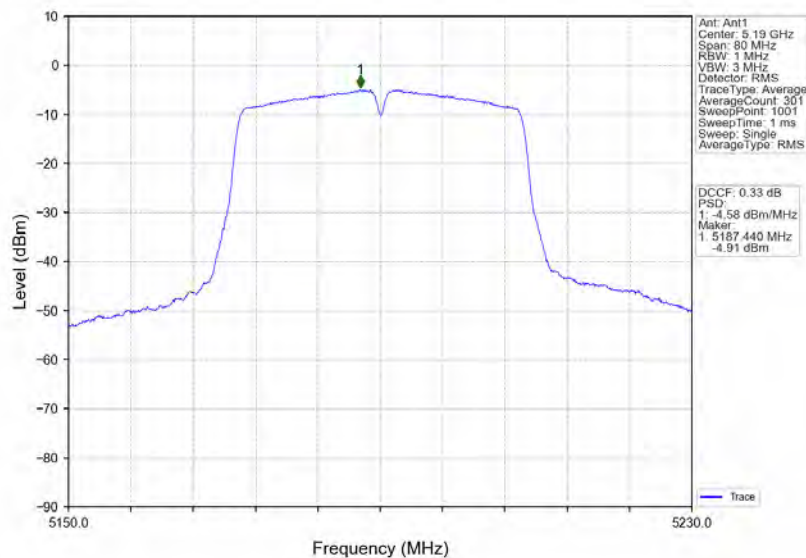
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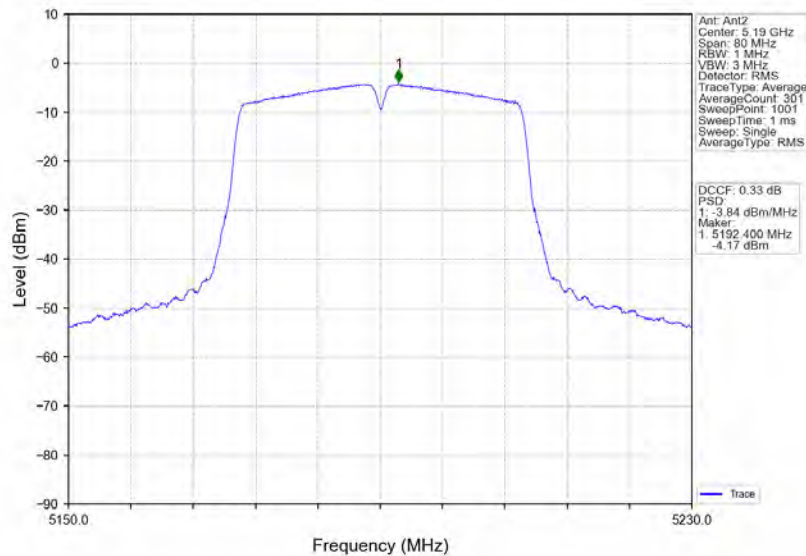
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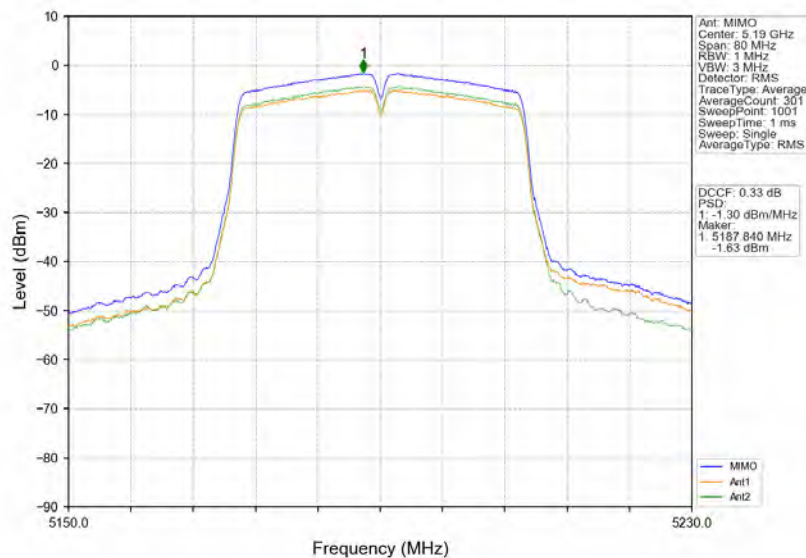
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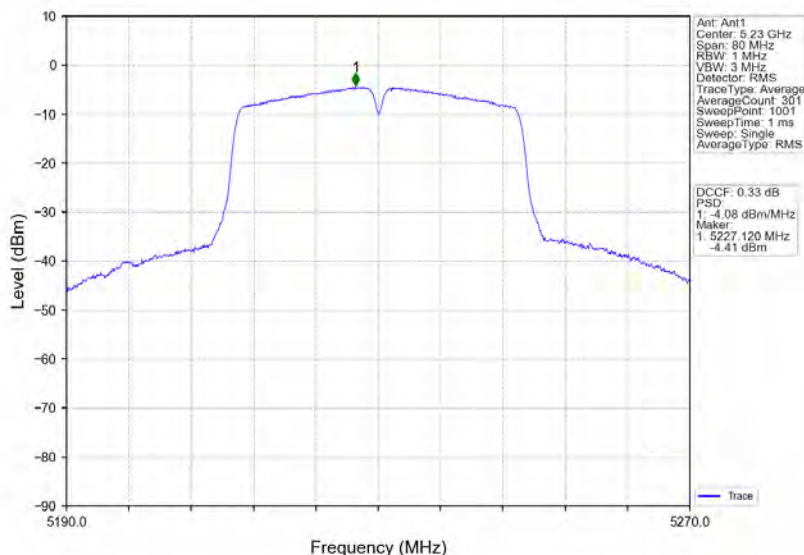
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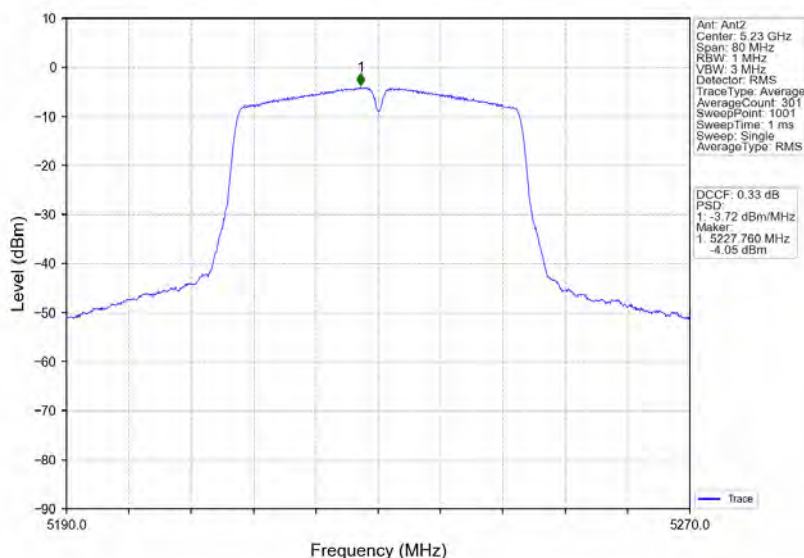
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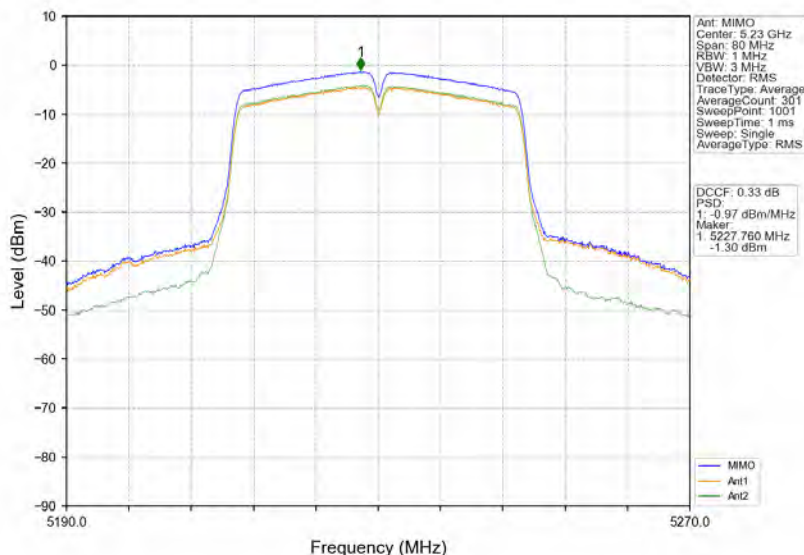
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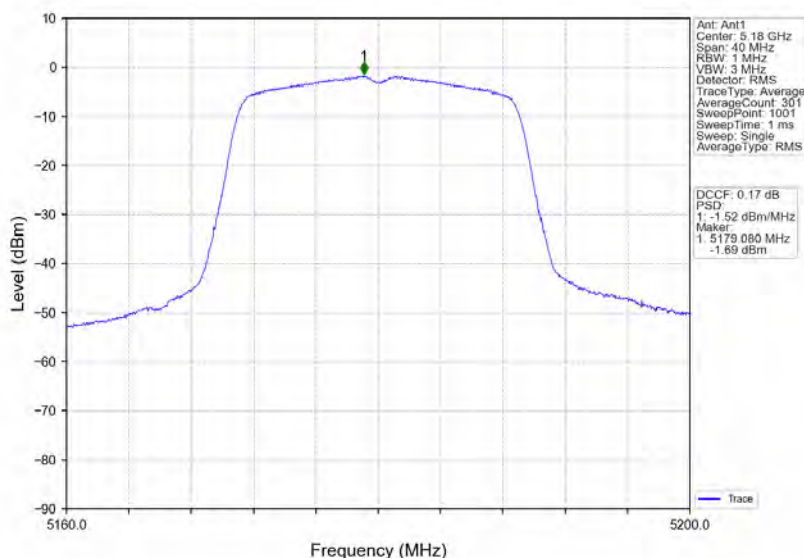
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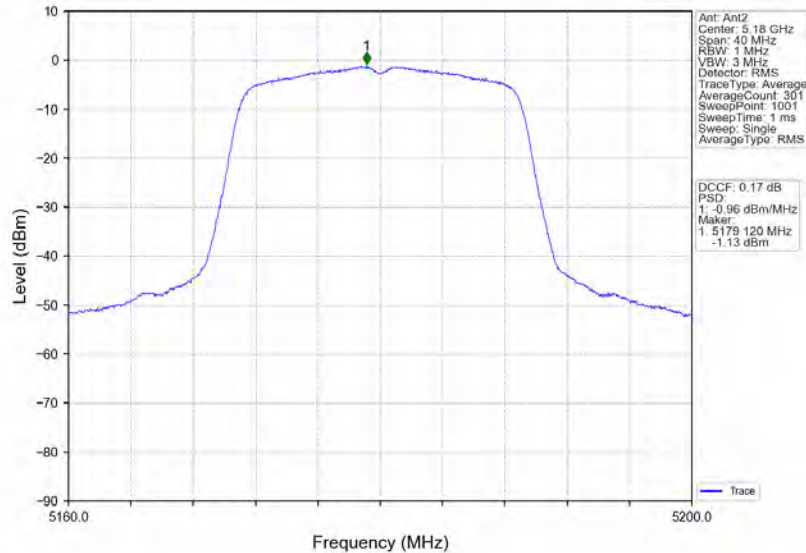
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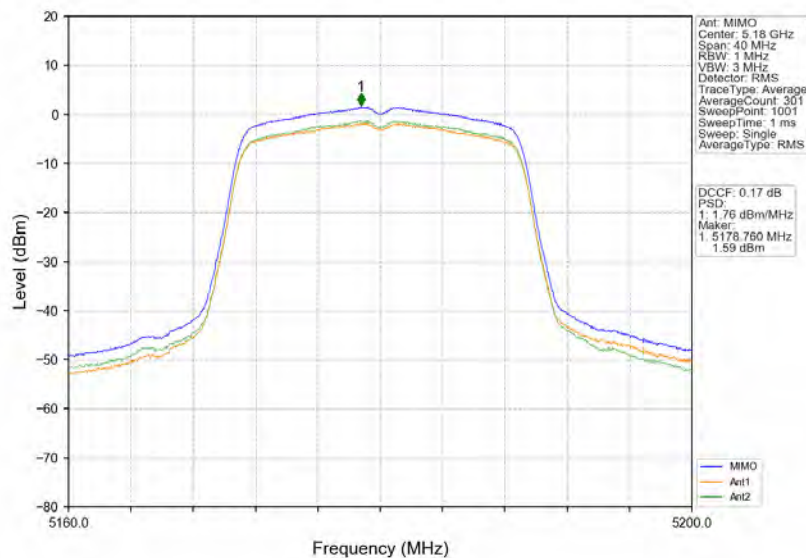
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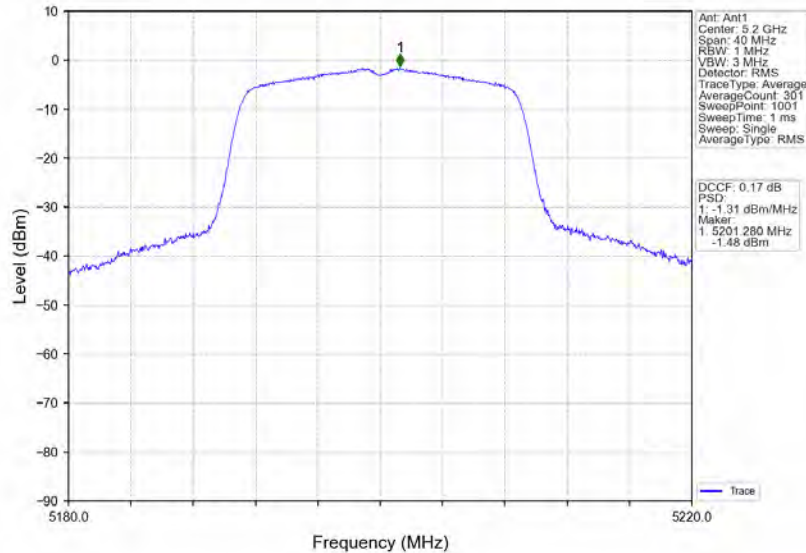
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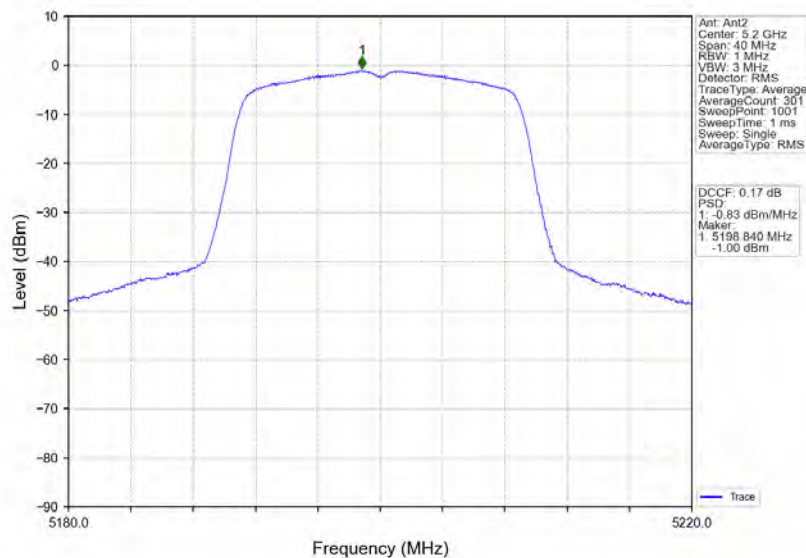
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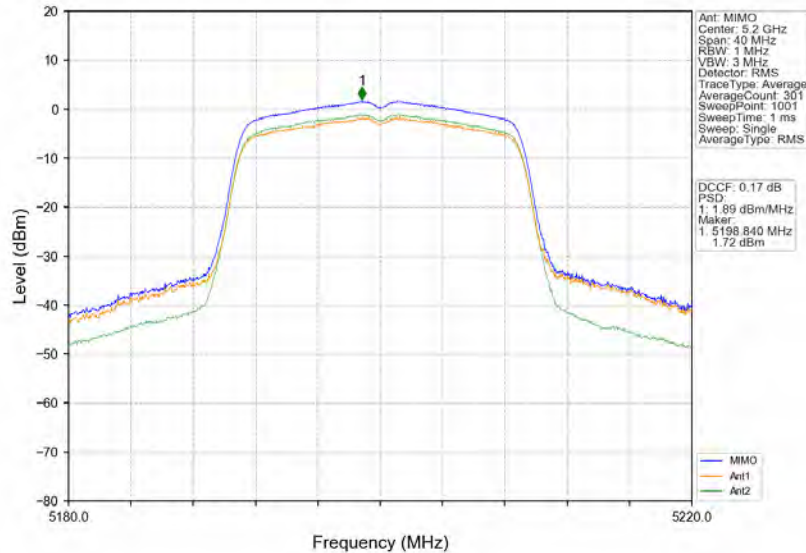
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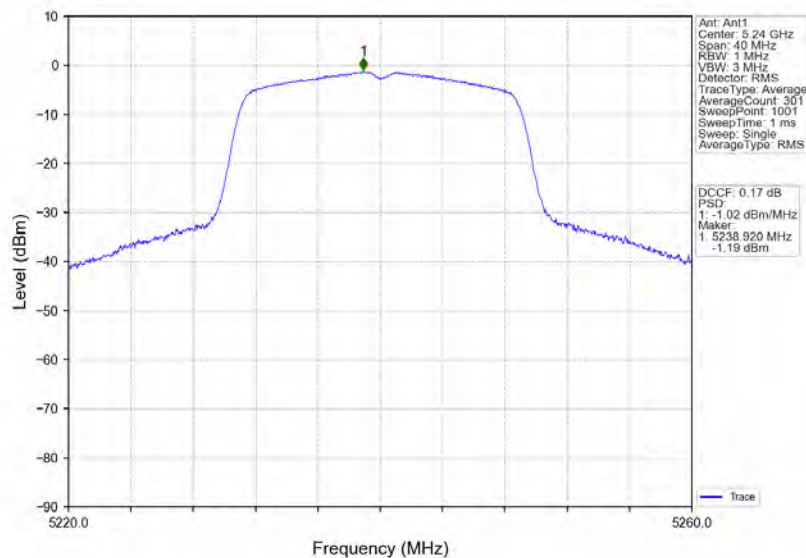
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802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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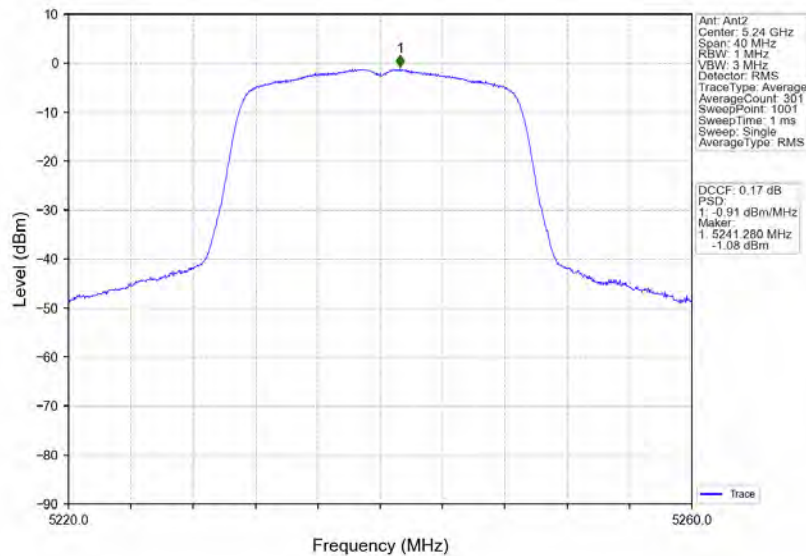
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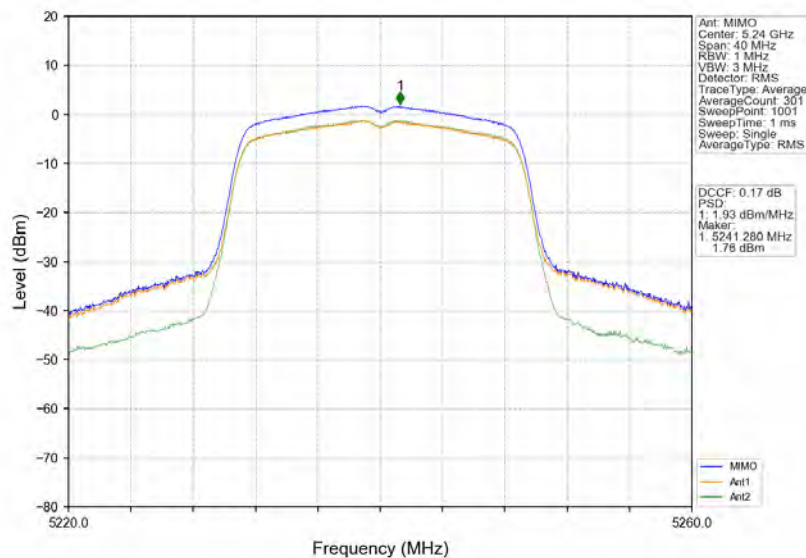
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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



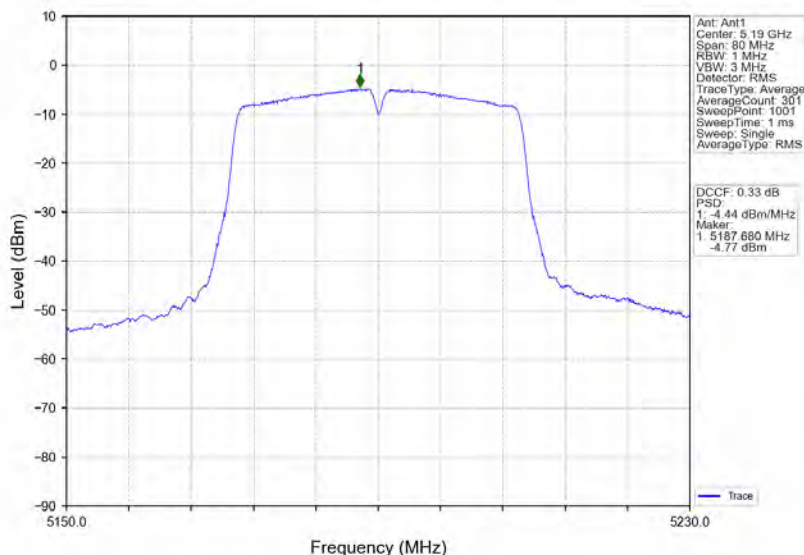
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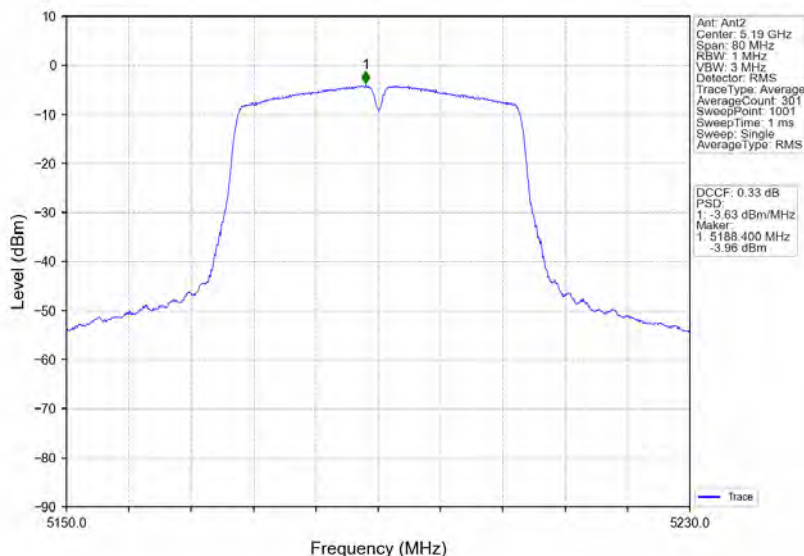
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



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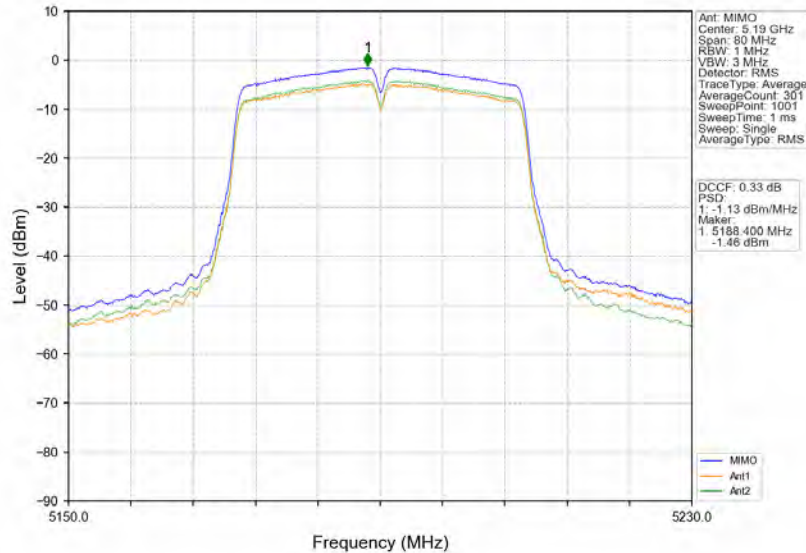
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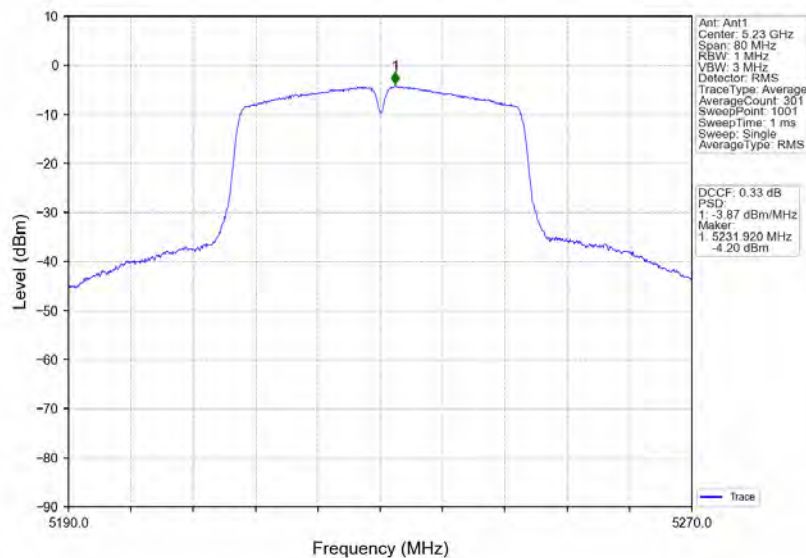
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802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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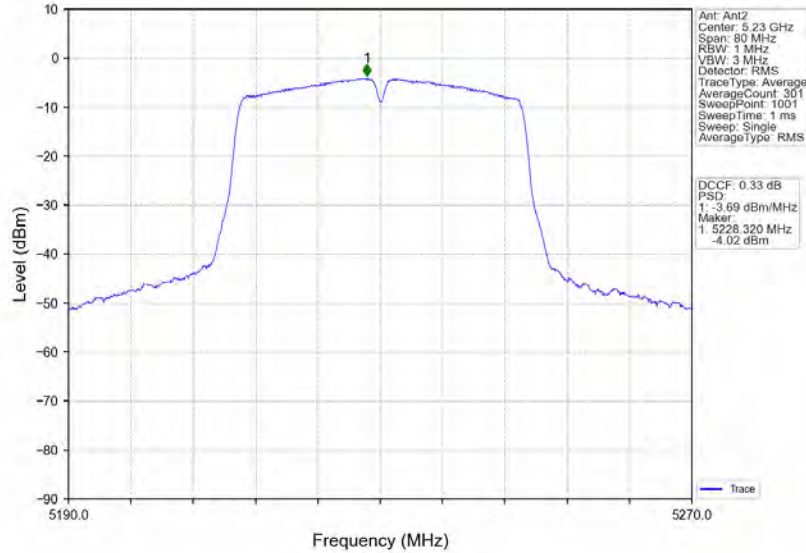
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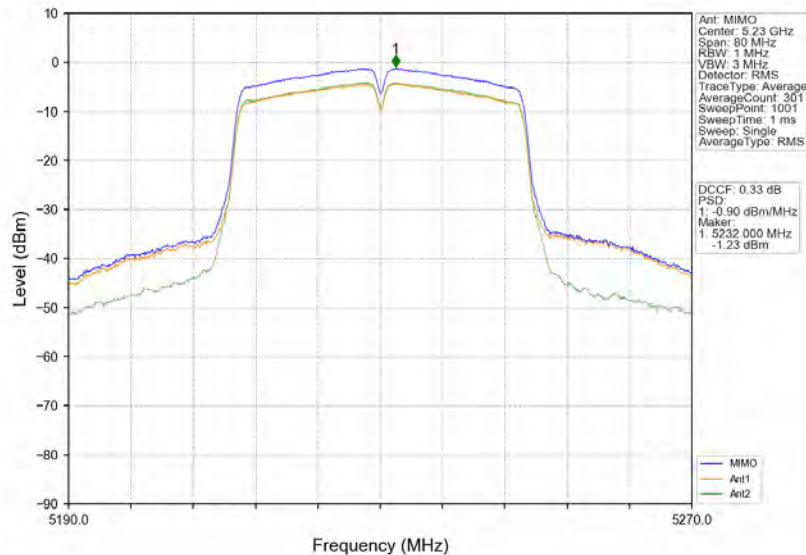
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802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



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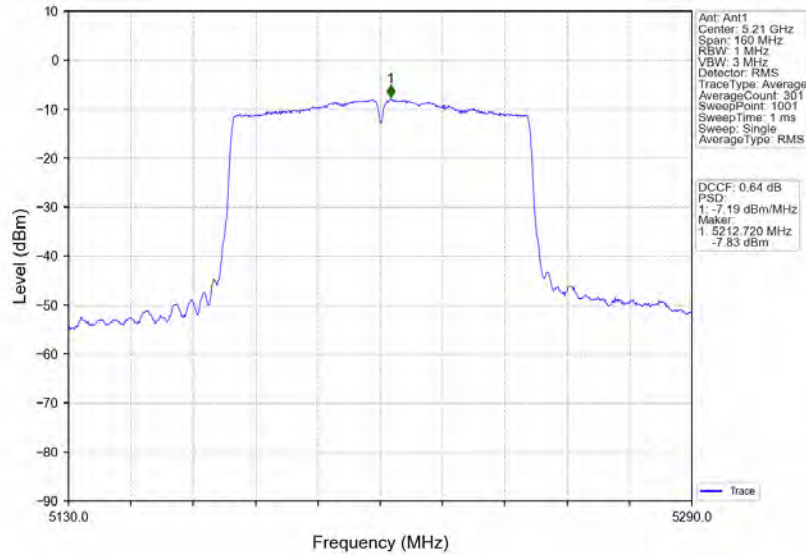
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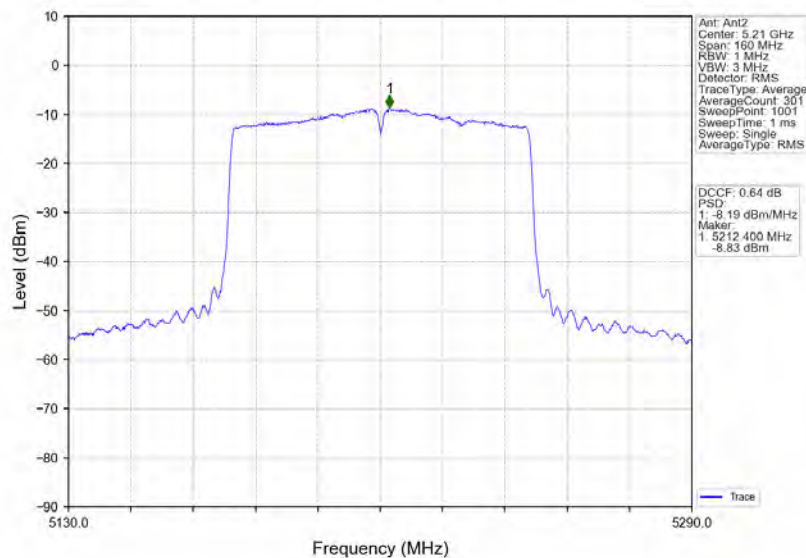
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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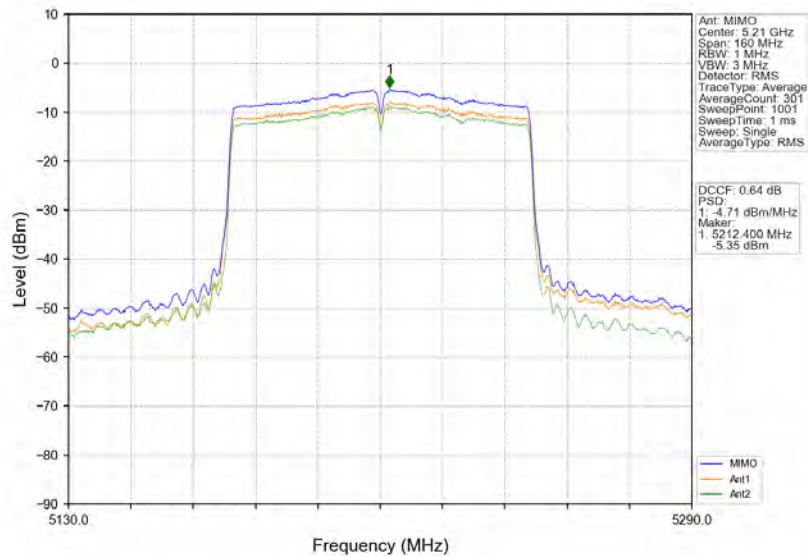
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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	-0.95	-1.69	/	<=30	Pass
		5785	-0.95	-1.71	/	<=30	Pass
		5825	-1.18	-0.77	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-4.26	-4.70	-1.59	<=30	Pass
		5785	-4.16	-4.43	-1.48	<=30	Pass
		5825	-4.67	-3.87	-1.42	<=30	Pass
802.11n (HT40)	MIMO	5755	-6.57	-7.53	-4.12	<=30	Pass
		5795	-7.07	-7.30	-4.31	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-4.40	-4.37	-1.42	<=30	Pass
		5785	-4.13	-4.38	-1.30	<=30	Pass
		5825	-4.40	-3.51	-1.12	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-5.88	-6.87	-3.48	<=30	Pass
		5795	-6.55	-6.31	-3.46	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-9.11	-10.15	-6.68	<=30	Pass

Note1: Antenna Gain: Ant1: 2.54dBi; Ant2: 2.62dBi;
Note2: Directional Gain: Band1: 5.25dBi, Band3: 5.59dBi

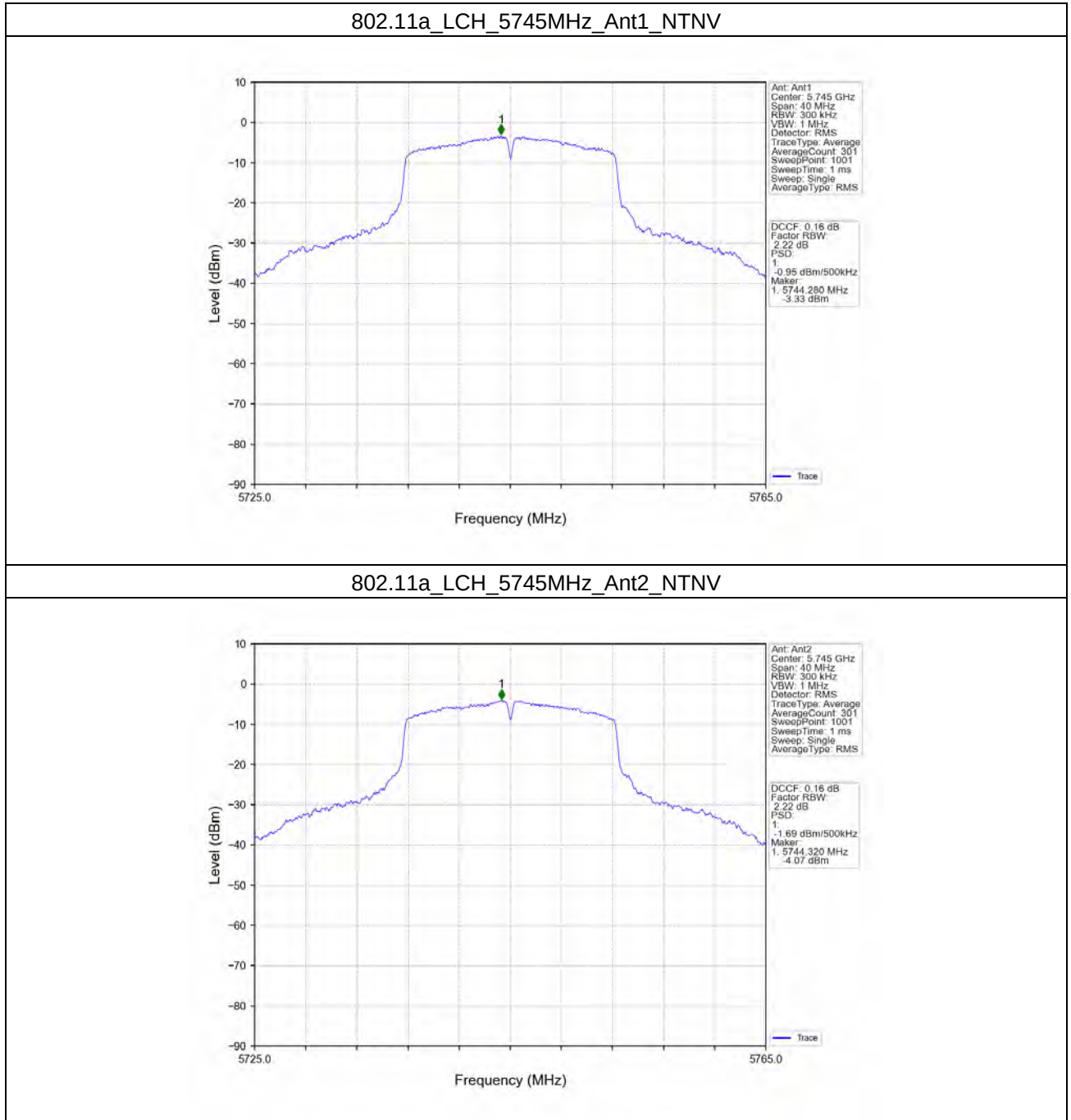


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4.2.2 Test Graph



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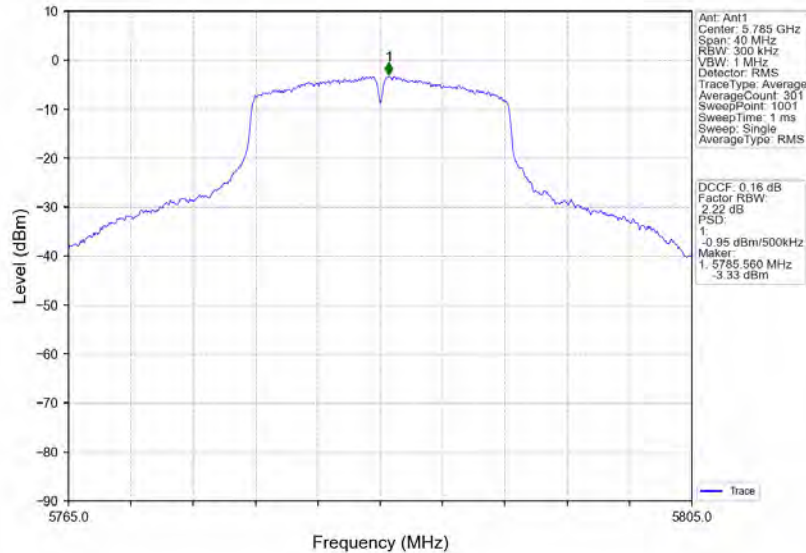
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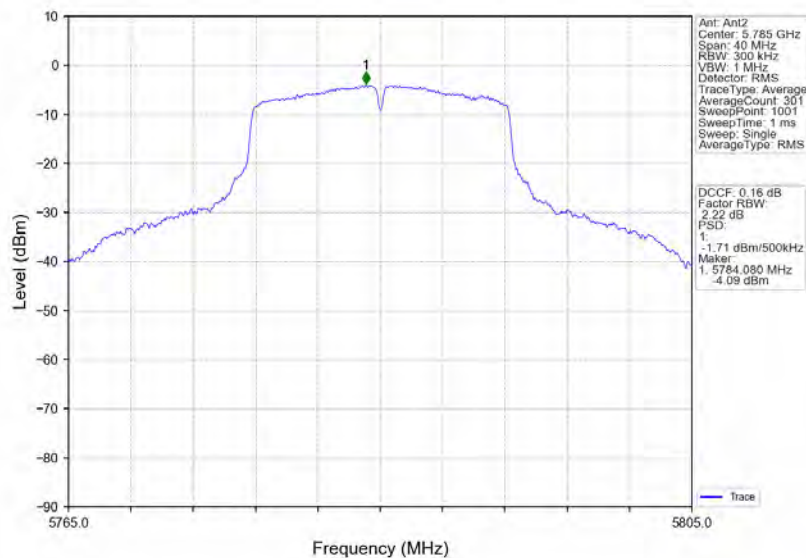
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802.11a_MCH_5785MHz_Ant2_NTNV



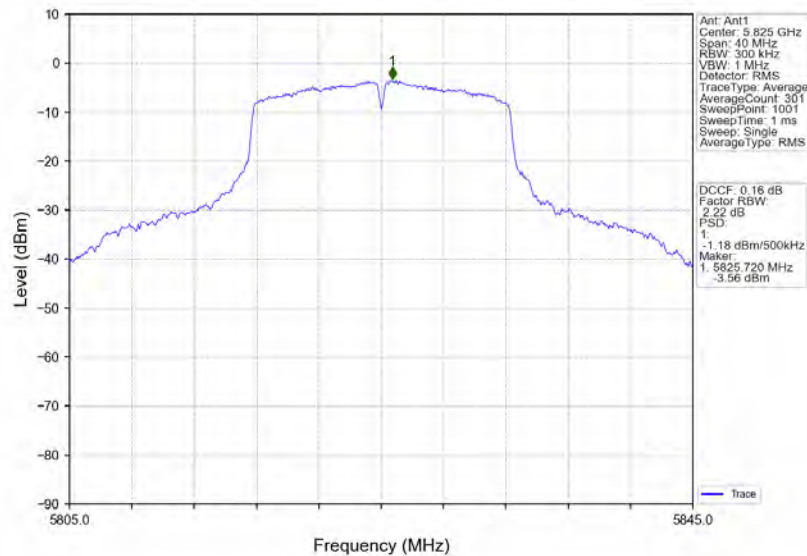
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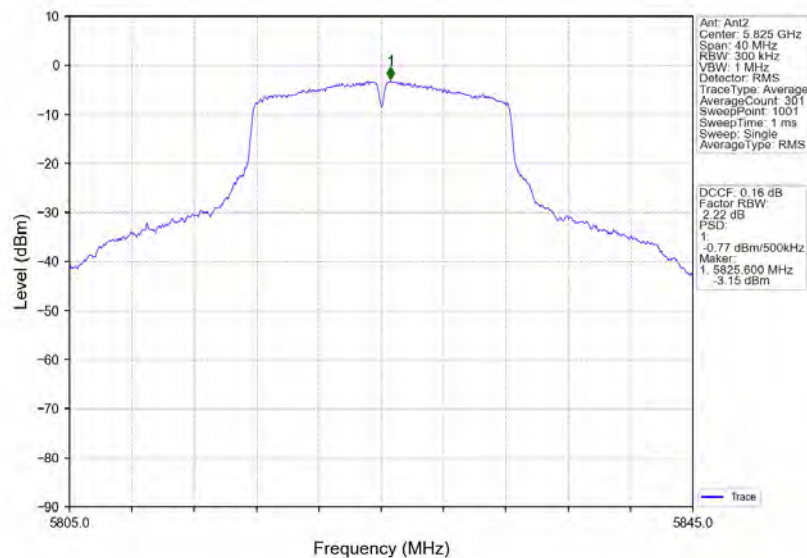
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802.11a_HCH_5825MHz_Ant2_NTNV



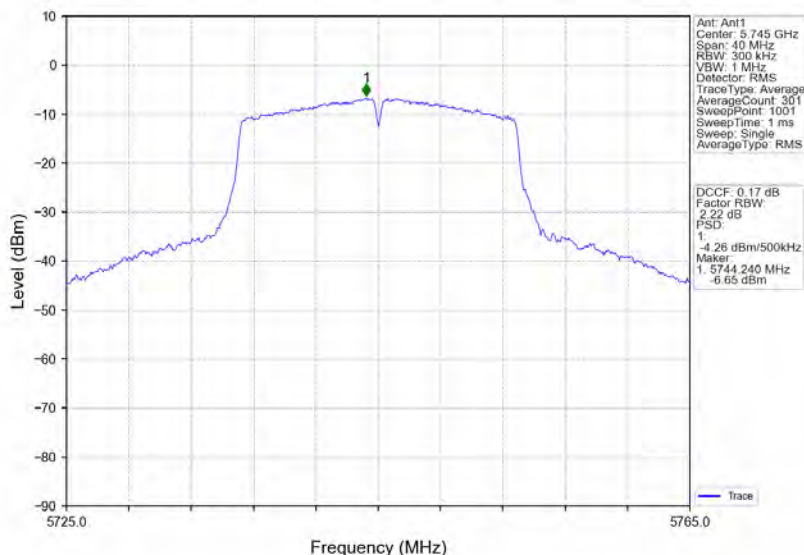
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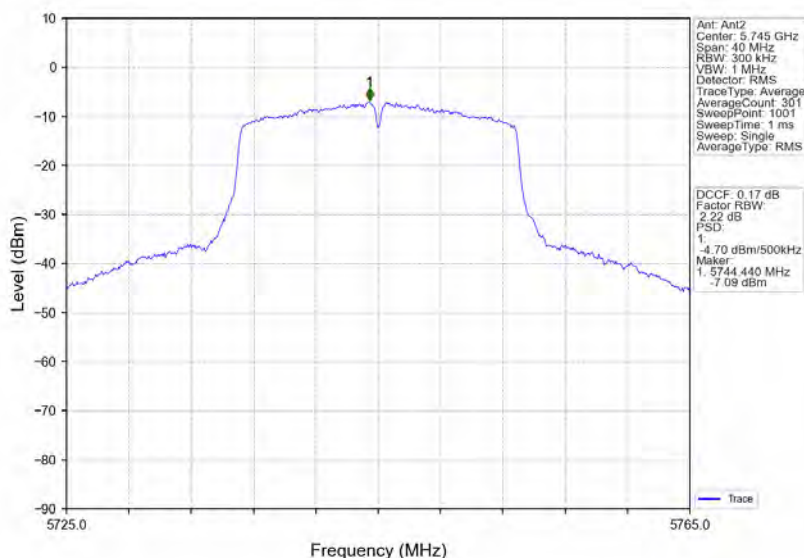
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802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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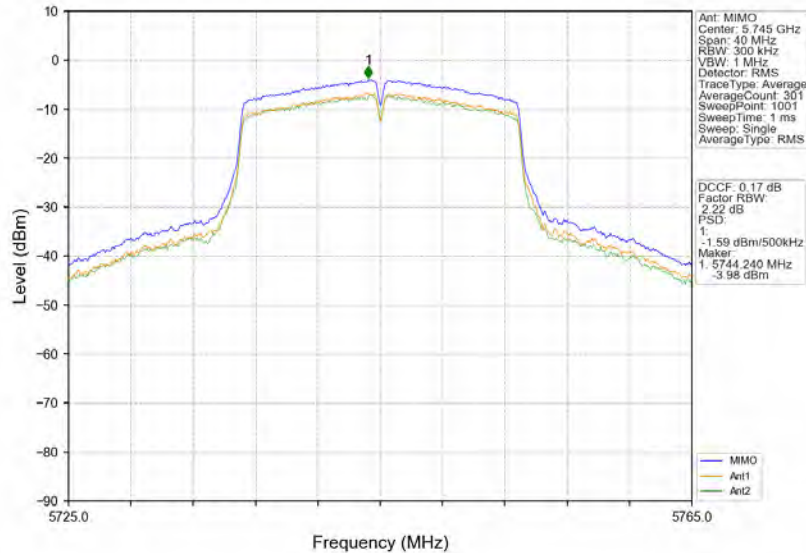
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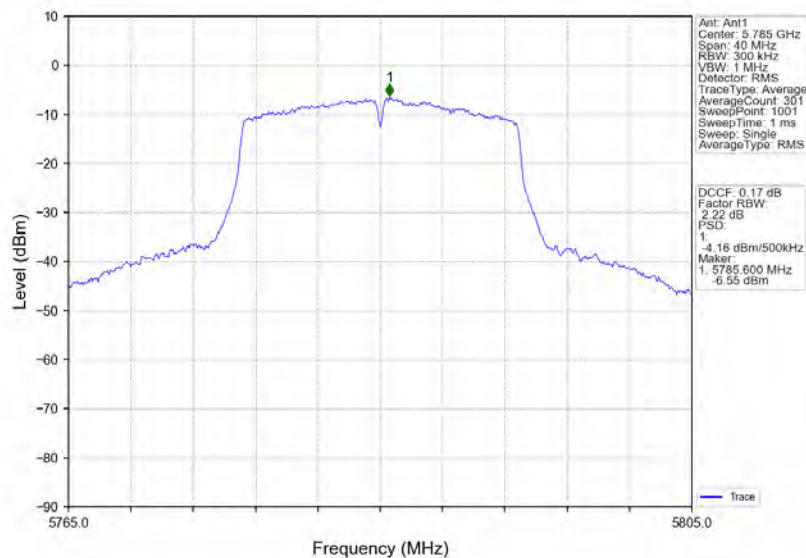
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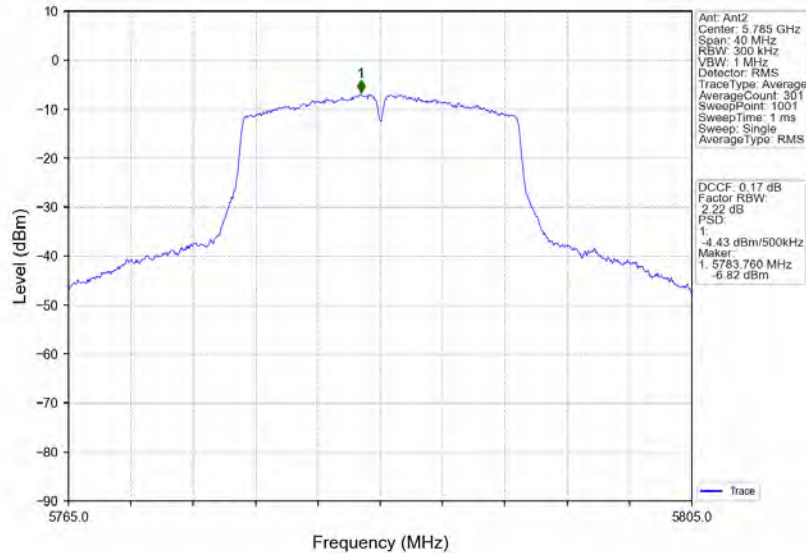
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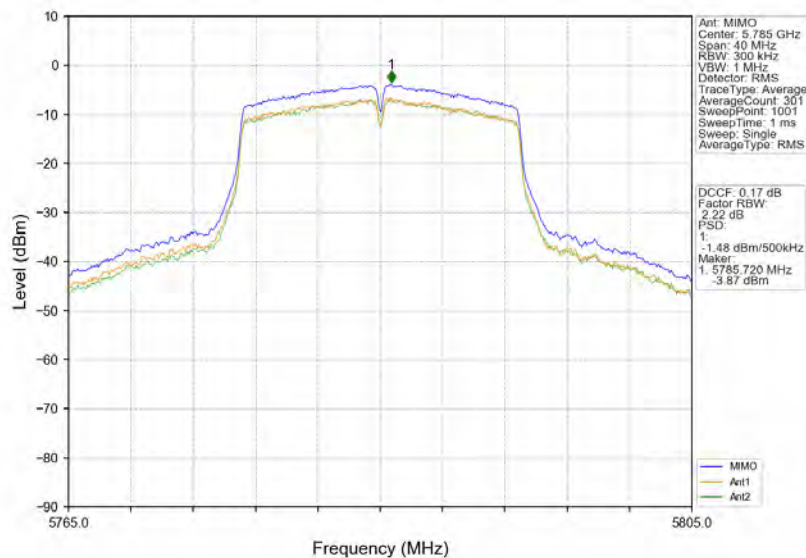
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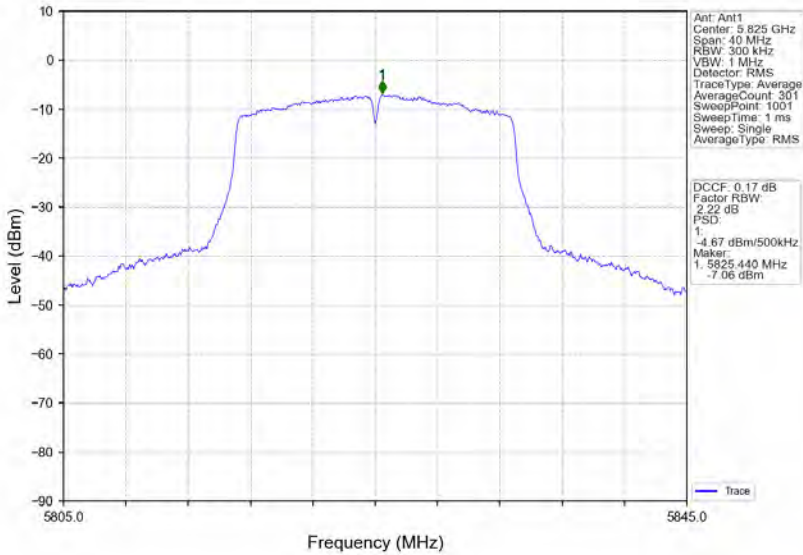
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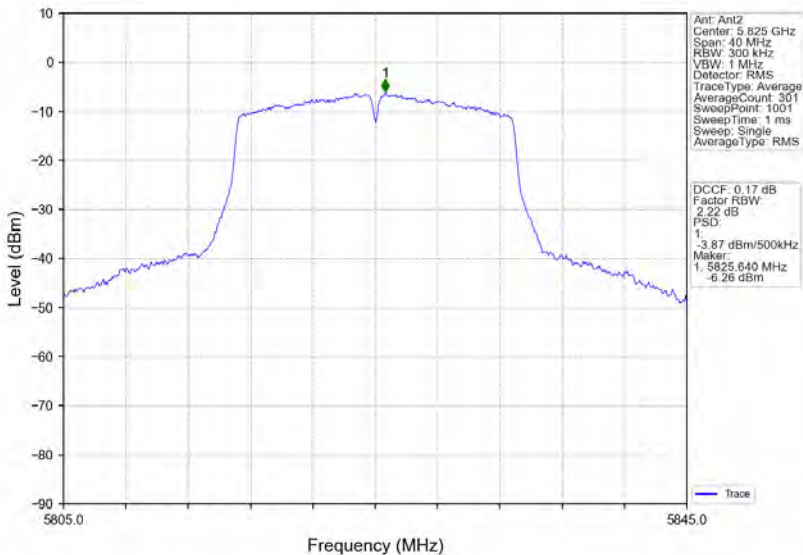
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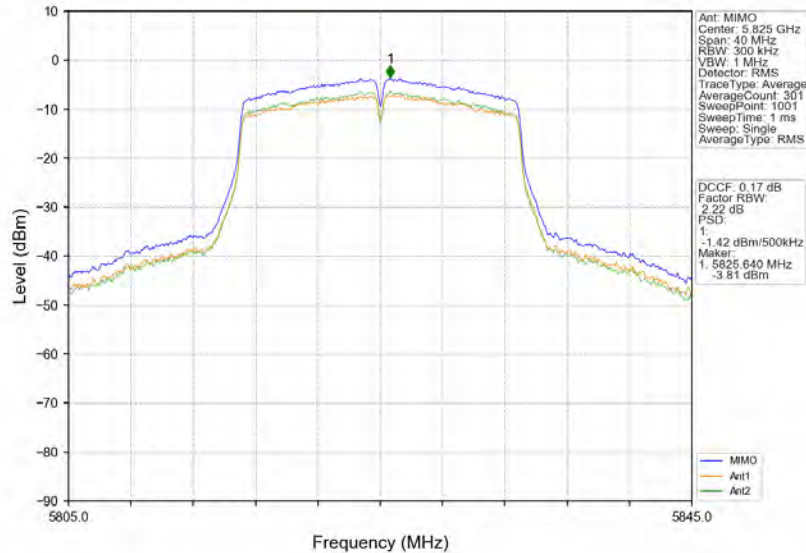
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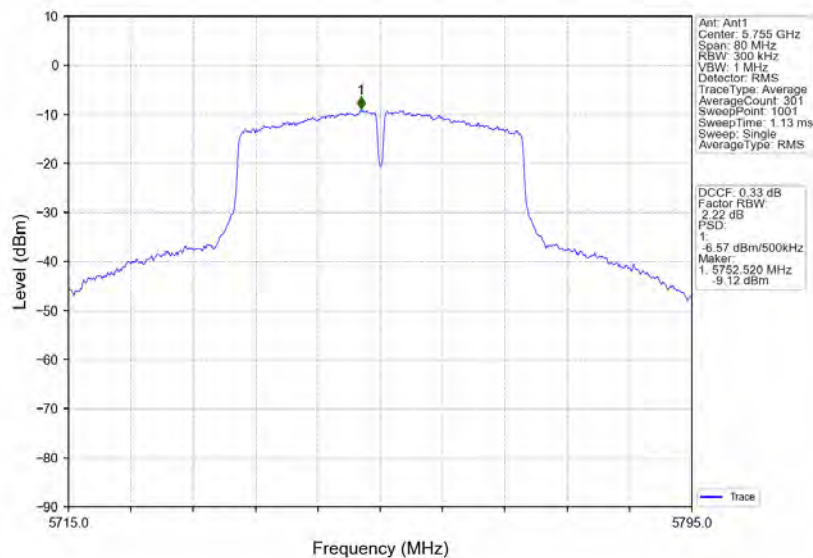
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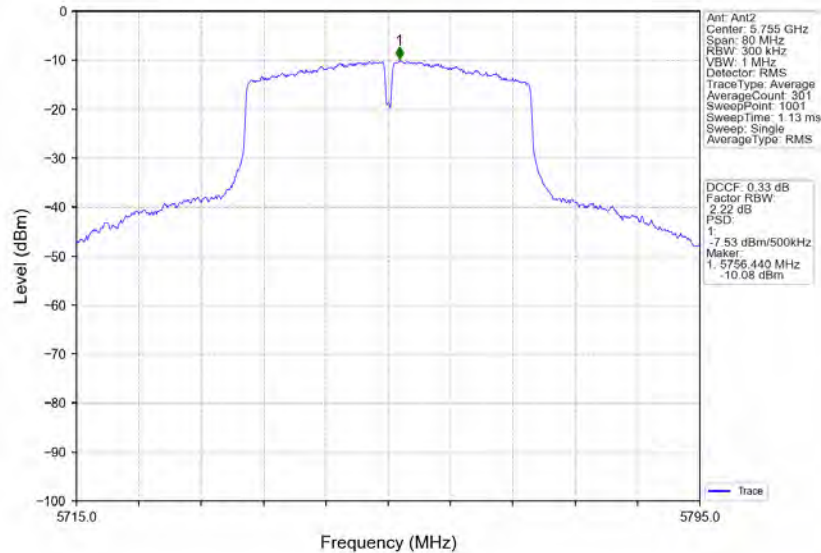
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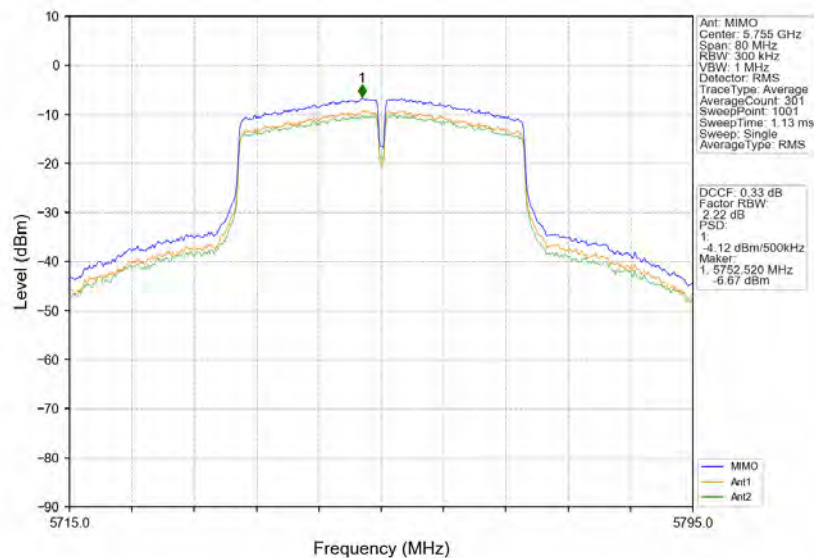
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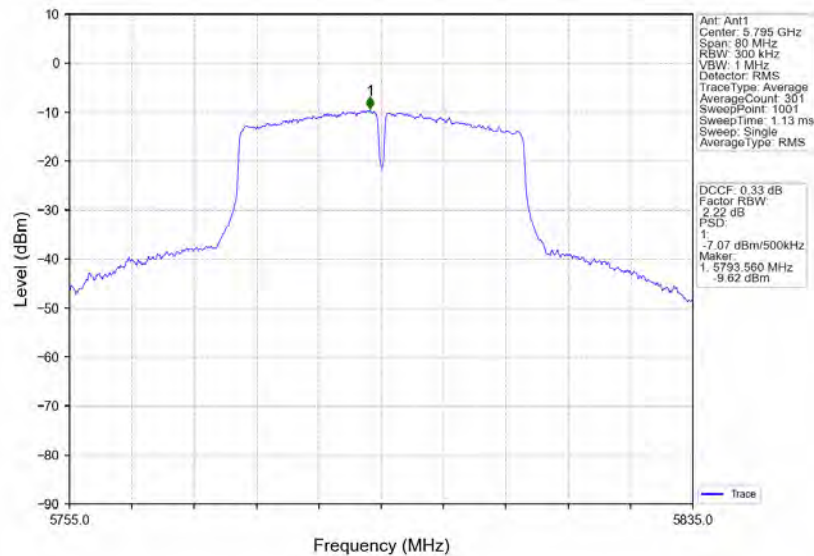
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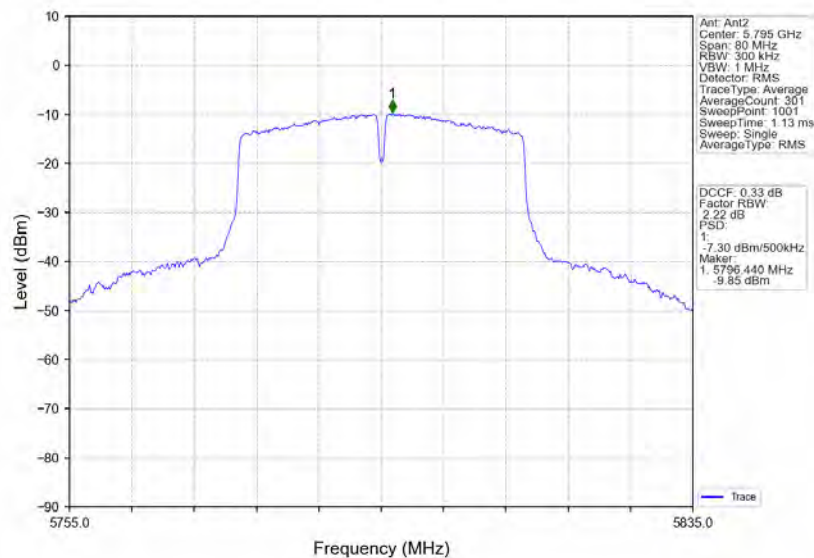
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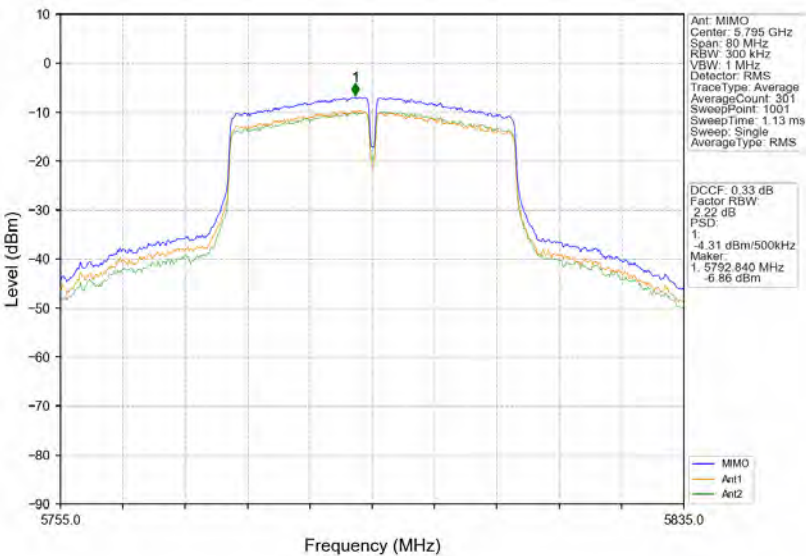
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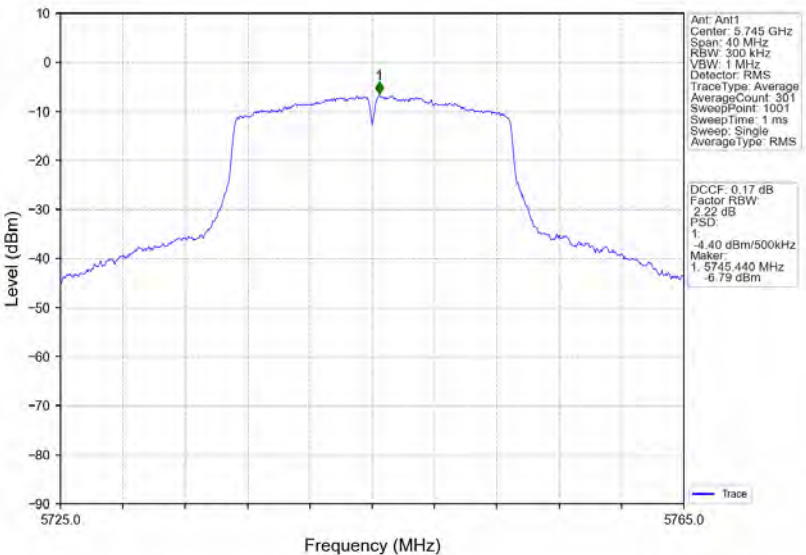
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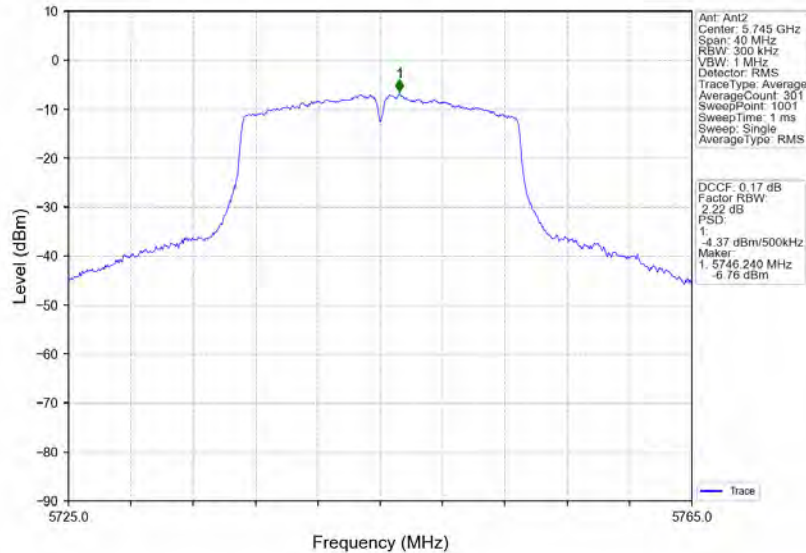
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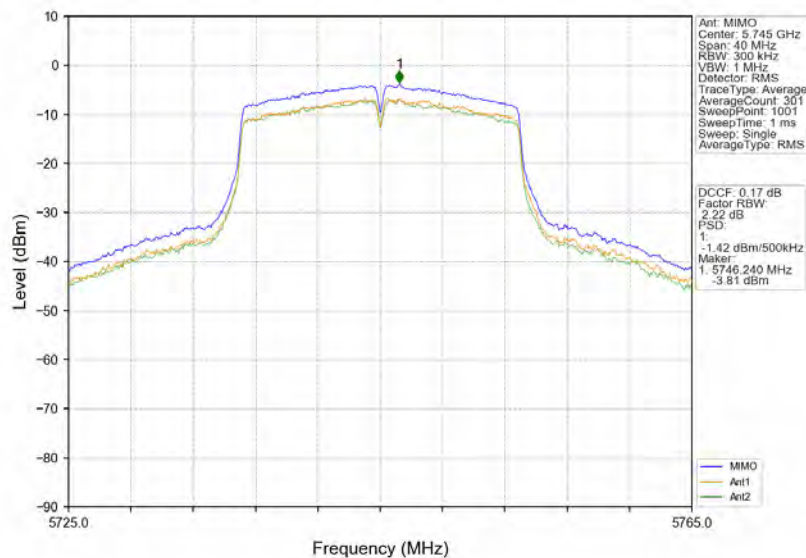
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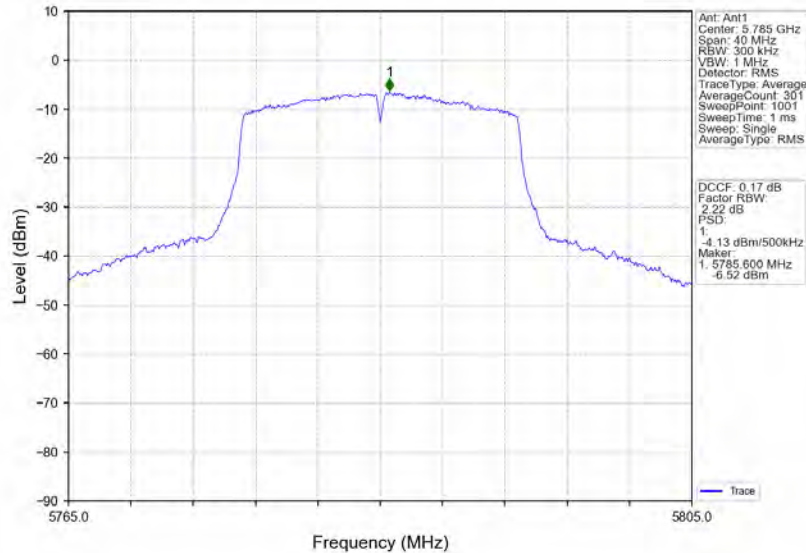
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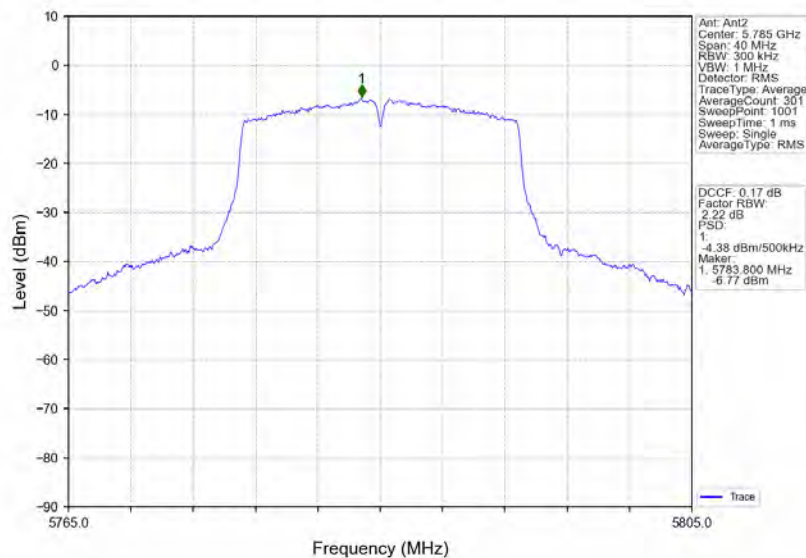
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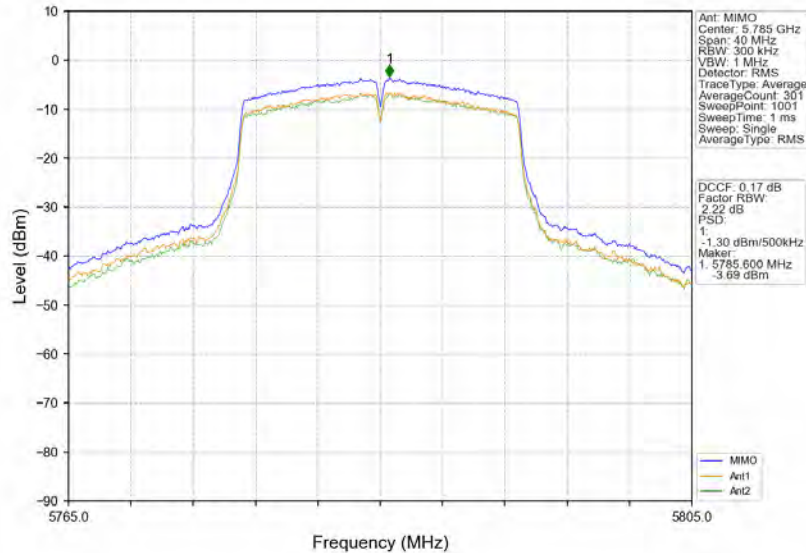
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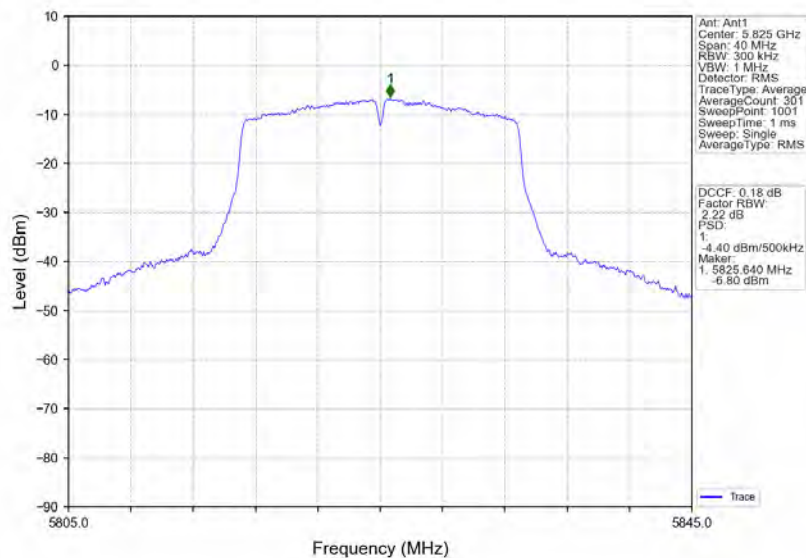
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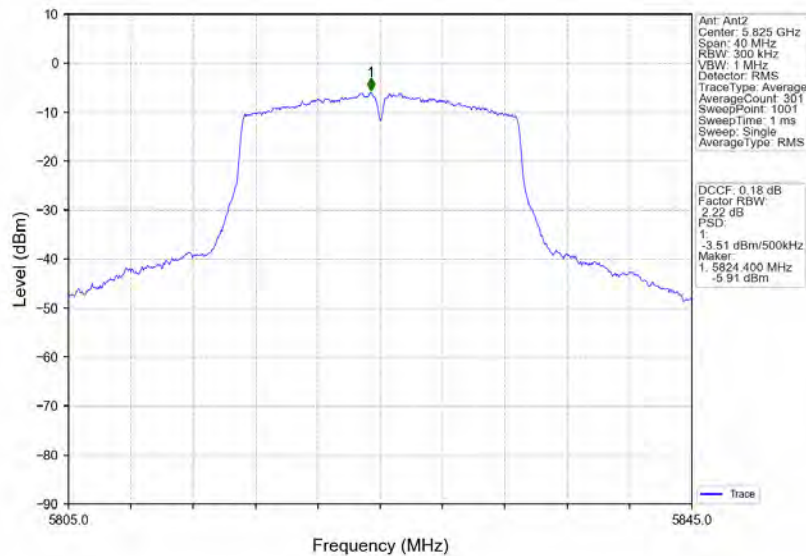
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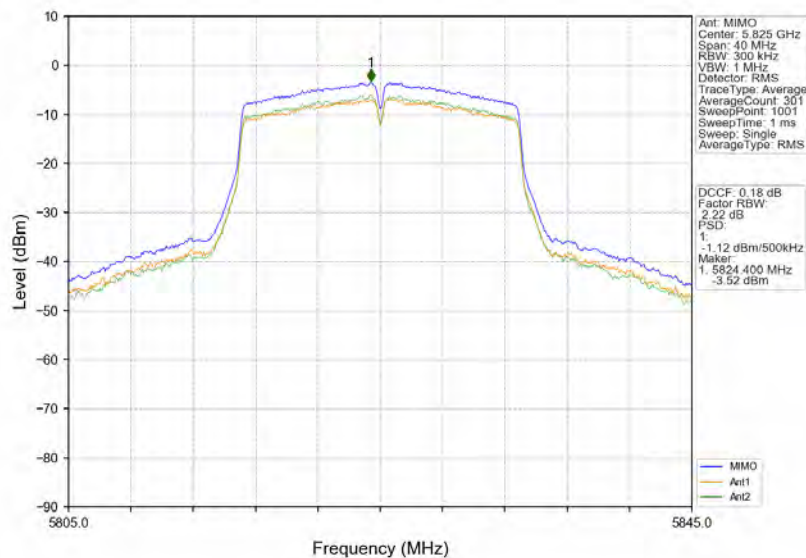
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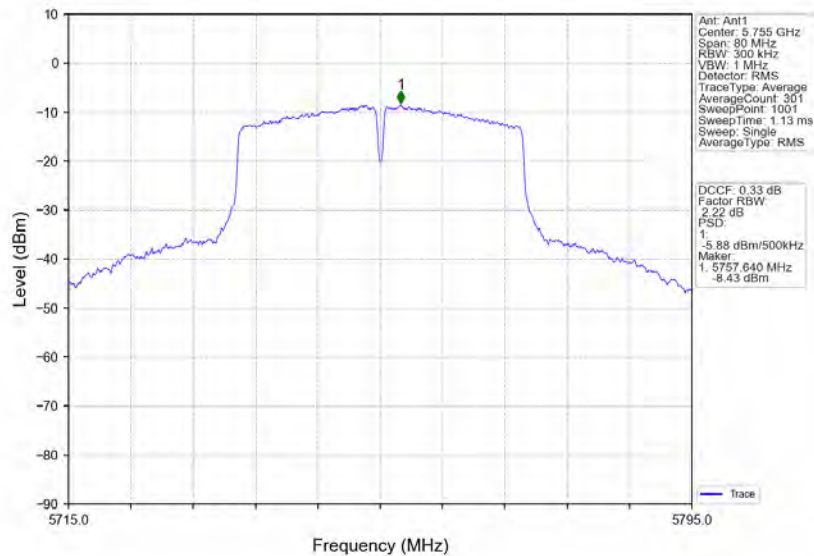
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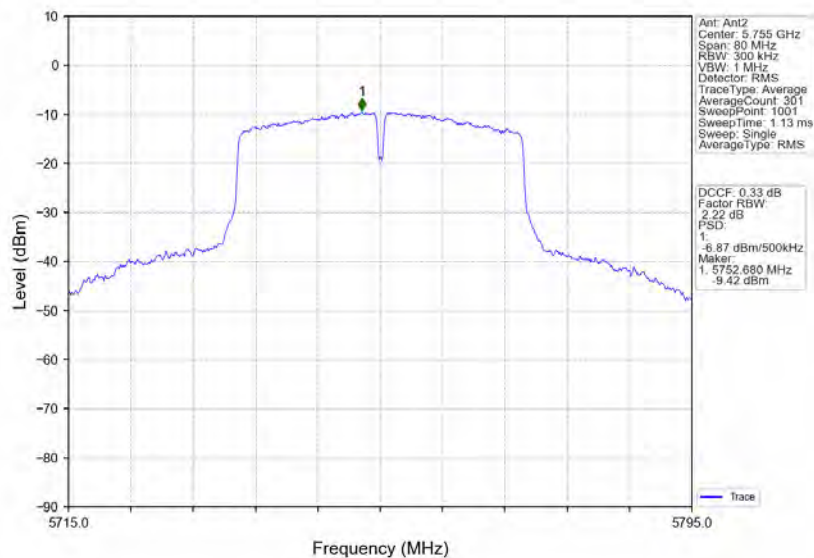
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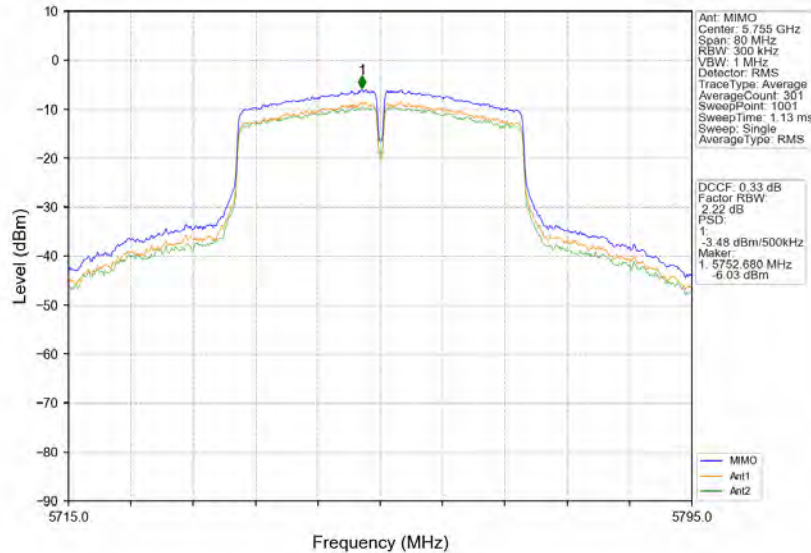
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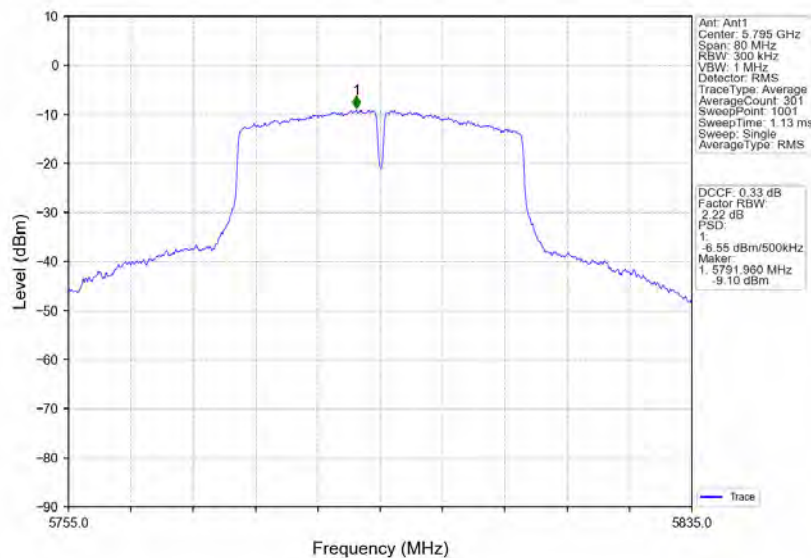
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802.11ac(VHT40)_LCH_5755MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



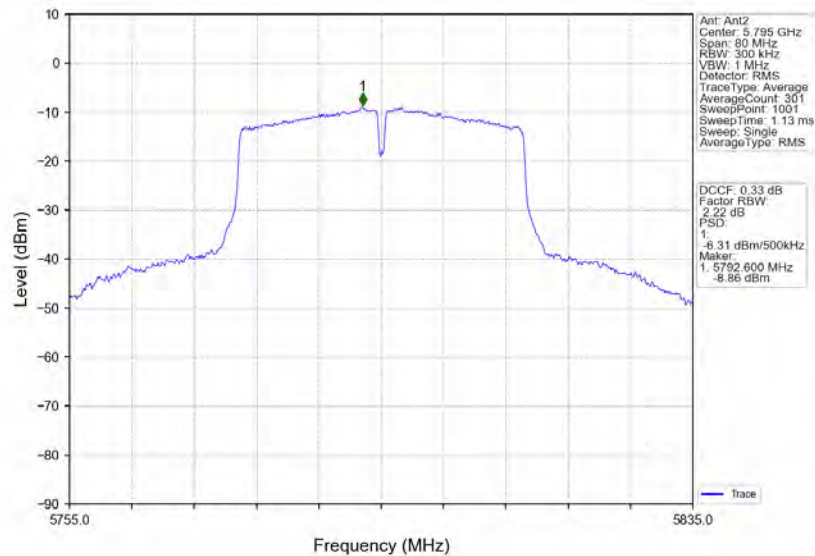
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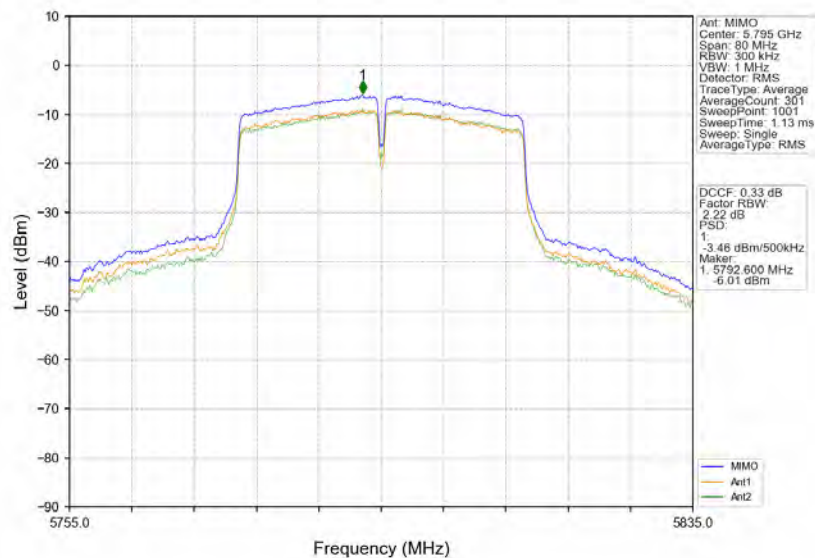
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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV



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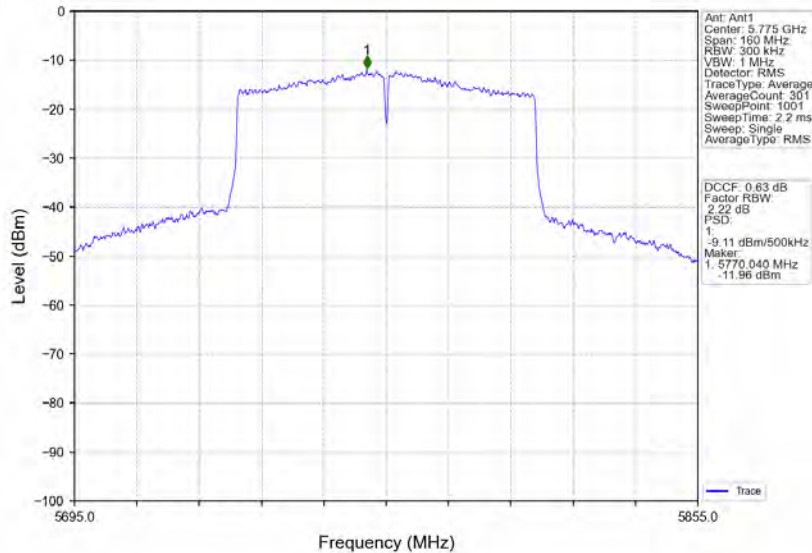
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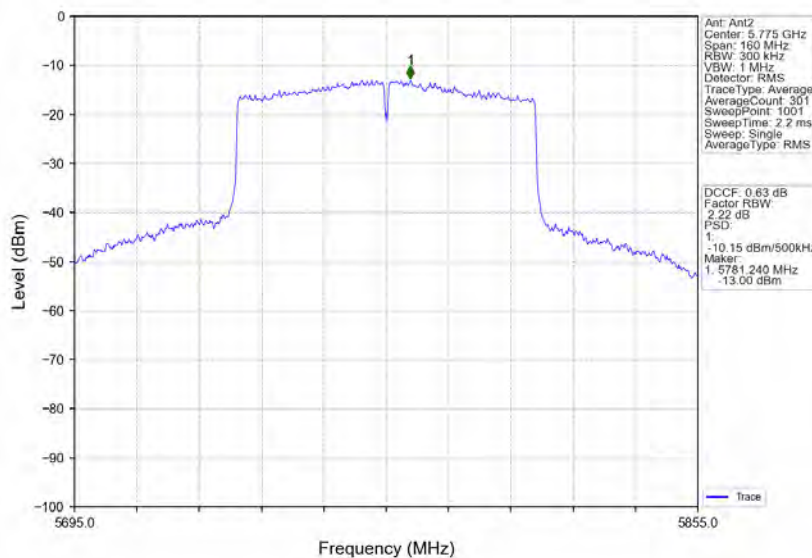
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



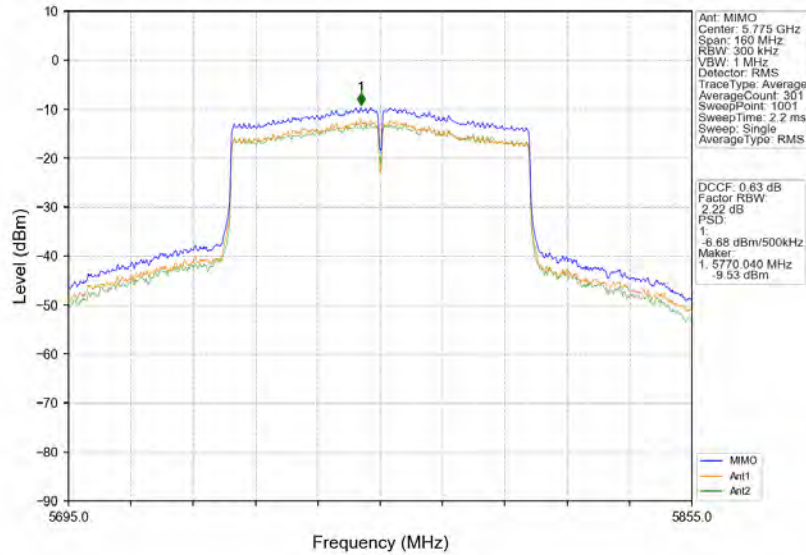
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802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5179.940	5150 to 5250	Pass
			-30	120	5179.900	5150 to 5250	Pass
			-20	120	5179.940	5150 to 5250	Pass
			-10	120	5179.960	5150 to 5250	Pass
			0	120	5179.940	5150 to 5250	Pass
			10	120	5179.920	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
			40	120	5179.940	5150 to 5250	Pass
			50	120	5179.980	5150 to 5250	Pass
		5200	20	102	5199.940	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				138	5199.960	5150 to 5250	Pass
			-30	120	5199.920	5150 to 5250	Pass
			-20	120	5199.980	5150 to 5250	Pass
			-10	120	5199.920	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5199.960	5150 to 5250	Pass
			30	120	5199.960	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5239.960	5150 to 5250	Pass
				120	5239.940	5150 to 5250	Pass
				138	5239.940	5150 to 5250	Pass
			-30	120	5239.900	5150 to 5250	Pass
			-20	120	5239.940	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5240.000	5150 to 5250	Pass



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800157005

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			30	120	5239.900	5150 to 5250	Pass
			40	120	5240.000	5150 to 5250	Pass
			50	120	5239.940	5150 to 5250	Pass
		5745	20	102	5744.940	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5744.940	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.940	5725 to 5850	Pass
			-10	120	5745.020	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5744.920	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5744.980	5725 to 5850	Pass
		5785	20	102	5784.900	5725 to 5850	Pass
				120	5784.920	5725 to 5850	Pass
				138	5784.960	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.960	5725 to 5850	Pass
			-10	120	5784.960	5725 to 5850	Pass
			0	120	5784.980	5725 to 5850	Pass
			10	120	5784.980	5725 to 5850	Pass
			30	120	5784.960	5725 to 5850	Pass
			40	120	5784.980	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
		5825	20	102	5824.940	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5824.900	5725 to 5850	Pass
			-30	120	5825.000	5725 to 5850	Pass
			-20	120	5824.960	5725 to 5850	Pass
			-10	120	5824.960	5725 to 5850	Pass
			0	120	5824.940	5725 to 5850	Pass
			10	120	5824.980	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
			50	120	5824.940	5725 to 5850	Pass
802.11n (HT20)	MIMO	5180	20	102	5180.040	5150 to 5250	Pass
				120	5179.980	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass



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			-30	120	5180.060	5150 to 5250	Pass
			-20	120	5180.040	5150 to 5250	Pass
			-10	120	5180.040	5150 to 5250	Pass
			0	120	5180.060	5150 to 5250	Pass
			10	120	5180.060	5150 to 5250	Pass
			30	120	5180.000	5150 to 5250	Pass
			40	120	5180.060	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	102	5200.060	5150 to 5250	Pass
				120	5200.060	5150 to 5250	Pass
				138	5200.080	5150 to 5250	Pass
			-30	120	5200.100	5150 to 5250	Pass
			-20	120	5200.080	5150 to 5250	Pass
			-10	120	5200.040	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.100	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.060	5150 to 5250	Pass
			50	120	5200.100	5150 to 5250	Pass
		5240	20	102	5240.000	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
			-30	120	5240.060	5150 to 5250	Pass
			-20	120	5240.040	5150 to 5250	Pass
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			40	120	5240.100	5150 to 5250	Pass
			50	120	5240.040	5150 to 5250	Pass
		5745	20	102	5745.060	5725 to 5850	Pass
				120	5745.060	5725 to 5850	Pass
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			40	120	5745.080	5725 to 5850	Pass
			50	120	5745.000	5725 to 5850	Pass
		5785	20	102	5785.000	5725 to 5850	Pass
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			-20	120	5784.980	5725 to 5850	Pass
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			50	120	5785.000	5725 to 5850	Pass
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				120	5824.960	5725 to 5850	Pass
				138	5825.020	5725 to 5850	Pass
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			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.040	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.060	5725 to 5850	Pass
			30	120	5825.000	5725 to 5850	Pass
			40	120	5825.060	5725 to 5850	Pass
			50	120	5825.060	5725 to 5850	Pass
802.11n (HT40)	MIMO	5190	20	102	5190.040	5150 to 5250	Pass
				120	5190.040	5150 to 5250	Pass
				138	5190.040	5150 to 5250	Pass
			-30	120	5190.040	5150 to 5250	Pass
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				120	5230.080	5150 to 5250	Pass
				138	5230.000	5150 to 5250	Pass
			-30	120	5230.080	5150 to 5250	Pass



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			40	120	5230.040	5150 to 5250	Pass
			50	120	5230.040	5150 to 5250	Pass
		5755	20	102	5755.040	5725 to 5850	Pass
				120	5755.080	5725 to 5850	Pass
				138	5755.040	5725 to 5850	Pass
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				120	5795.080	5725 to 5850	Pass
				138	5795.000	5725 to 5850	Pass
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			40	120	5795.040	5725 to 5850	Pass
			50	120	5795.000	5725 to 5850	Pass
		5180	20	102	5180.060	5150 to 5250	Pass
				120	5180.060	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.060	5150 to 5250	Pass
			-20	120	5180.080	5150 to 5250	Pass
			-10	120	5180.060	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.020	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
			40	120	5180.060	5150 to 5250	Pass



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Compliance Certification Services (Kunshan) Inc.

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		5200	50	120	5180.060	5150 to 5250	Pass
			20	102	5200.080	5150 to 5250	Pass
				120	5200.080	5150 to 5250	Pass
				138	5200.100	5150 to 5250	Pass
				138	5200.100	5150 to 5250	Pass
			-30	120	5200.040	5150 to 5250	Pass
			-20	120	5200.100	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5200.060	5150 to 5250	Pass
			10	120	5200.060	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.080	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.080	5150 to 5250	Pass
				120	5240.080	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
			-30	120	5240.080	5150 to 5250	Pass
			-20	120	5239.980	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.080	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5240.040	5150 to 5250	Pass
			40	120	5240.040	5150 to 5250	Pass
			50	120	5240.040	5150 to 5250	Pass
		5745	20	102	5745.080	5725 to 5850	Pass
				120	5745.060	5725 to 5850	Pass
				138	5745.100	5725 to 5850	Pass
				138	5745.100	5725 to 5850	Pass
			-30	120	5745.080	5725 to 5850	Pass
			-20	120	5745.100	5725 to 5850	Pass
			-10	120	5745.100	5725 to 5850	Pass
			0	120	5745.080	5725 to 5850	Pass
			10	120	5745.060	5725 to 5850	Pass
			30	120	5745.120	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5745.080	5725 to 5850	Pass
		5785	20	102	5785.040	5725 to 5850	Pass
				120	5785.060	5725 to 5850	Pass
				138	5785.060	5725 to 5850	Pass
				138	5785.060	5725 to 5850	Pass
			-30	120	5785.000	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass



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			-10	120	5785.020	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5785.020	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.000	5725 to 5850	Pass
		5825	20	102	5825.060	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.060	5725 to 5850	Pass
			-20	120	5825.000	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.000	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5825.060	5725 to 5850	Pass
			40	120	5825.000	5725 to 5850	Pass
			50	120	5825.020	5725 to 5850	Pass
802.11ac (VHT40)	MIMO	5190	20	102	5190.080	5150 to 5250	Pass
				120	5190.000	5150 to 5250	Pass
				138	5190.080	5150 to 5250	Pass
			-30	120	5190.040	5150 to 5250	Pass
			-20	120	5190.040	5150 to 5250	Pass
			-10	120	5190.040	5150 to 5250	Pass
			0	120	5190.000	5150 to 5250	Pass
			10	120	5190.080	5150 to 5250	Pass
			30	120	5190.040	5150 to 5250	Pass
			40	120	5190.080	5150 to 5250	Pass
			50	120	5190.080	5150 to 5250	Pass
		5230	20	102	5230.080	5150 to 5250	Pass
				120	5230.040	5150 to 5250	Pass
				138	5230.080	5150 to 5250	Pass
			-30	120	5230.040	5150 to 5250	Pass
			-20	120	5230.080	5150 to 5250	Pass
			-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.080	5150 to 5250	Pass
			10	120	5230.080	5150 to 5250	Pass
			30	120	5230.040	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass



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		5755	20	102	5755.080	5725 to 5850	Pass
				120	5755.080	5725 to 5850	Pass
				138	5755.080	5725 to 5850	Pass
			-30	120	5755.080	5725 to 5850	Pass
			-20	120	5755.080	5725 to 5850	Pass
			-10	120	5755.080	5725 to 5850	Pass
			0	120	5755.080	5725 to 5850	Pass
			10	120	5755.040	5725 to 5850	Pass
			30	120	5755.080	5725 to 5850	Pass
			40	120	5755.040	5725 to 5850	Pass
		5795	20	102	5795.000	5725 to 5850	Pass
				120	5794.960	5725 to 5850	Pass
				138	5794.960	5725 to 5850	Pass
			-30	120	5795.040	5725 to 5850	Pass
			-20	120	5795.000	5725 to 5850	Pass
			-10	120	5795.040	5725 to 5850	Pass
			0	120	5794.960	5725 to 5850	Pass
			10	120	5795.040	5725 to 5850	Pass
			30	120	5795.040	5725 to 5850	Pass
			40	120	5794.960	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5210	20	102	5210.075	5150 to 5250	Pass
				120	5210.150	5150 to 5250	Pass
				138	5210.075	5150 to 5250	Pass
			-30	120	5210.075	5150 to 5250	Pass
			-20	120	5210.150	5150 to 5250	Pass
			-10	120	5210.075	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass
			10	120	5210.075	5150 to 5250	Pass
			30	120	5210.150	5150 to 5250	Pass
			40	120	5210.075	5150 to 5250	Pass
		5775	20	102	5775.075	5725 to 5850	Pass
				120	5775.075	5725 to 5850	Pass
				138	5775.000	5725 to 5850	Pass
			-30	120	5775.000	5725 to 5850	Pass
			-20	120	5775.075	5725 to 5850	Pass
			-10	120	5775.075	5725 to 5850	Pass



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			0	120	5775.075	5725 to 5850	Pass
			10	120	5775.075	5725 to 5850	Pass
			30	120	5775.150	5725 to 5850	Pass
			40	120	5775.075	5725 to 5850	Pass
			50	120	5775.075	5725 to 5850	Pass

End of the Report -



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