

Appendix B for-KSCR220100003002-FCC-5G-RTL8812cu

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	2.064	2.295	89.93	0.46	5.63
		5200	2.064	2.277	90.65	0.43	4.87
		5240	2.063	2.285	90.28	0.44	4.90
		5745	2.064	2.259	91.37	0.39	4.20
		5785	2.064	2.296	89.90	0.46	5.63
		5825	2.063	2.294	89.93	0.46	4.83
802.11n (HT20)	MIMO	5180	1.920	2.124	90.40	0.44	4.84
		5200	1.920	2.142	89.64	0.48	5.61
		5240	1.920	2.151	89.26	0.49	5.98
		5745	1.920	2.132	90.06	0.45	3.54
		5785	1.920	2.152	89.22	0.50	6.01
		5825	1.920	2.133	90.01	0.46	5.24
802.11n (HT40)	MIMO	5190	0.945	1.175	80.43	0.95	10.45
		5230	0.944	1.175	80.34	0.95	7.38
		5755	0.944	1.166	80.96	0.92	9.83
		5795	0.944	1.148	82.23	0.85	8.51
802.11ac (VHT20)	MIMO	5180	1.920	2.151	89.26	0.49	5.52
		5200	1.920	2.151	89.26	0.49	5.12
		5240	1.920	2.143	89.59	0.48	5.61
		5745	1.920	2.142	89.64	0.48	4.79
		5785	1.920	2.141	89.68	0.47	5.17
		5825	1.932	2.169	89.07	0.50	4.23
802.11ac (VHT40)	MIMO	5190	0.944	1.157	81.59	0.88	8.43
		5230	0.944	1.148	82.23	0.85	8.53
		5755	0.944	1.148	82.23	0.85	4.79
		5795	0.952	1.207	78.87	1.03	9.17
802.11ac (VHT80)	MIMO	5210	1.921	2.152	89.27	0.49	5.97
		5775	1.920	2.134	89.97	0.46	5.24

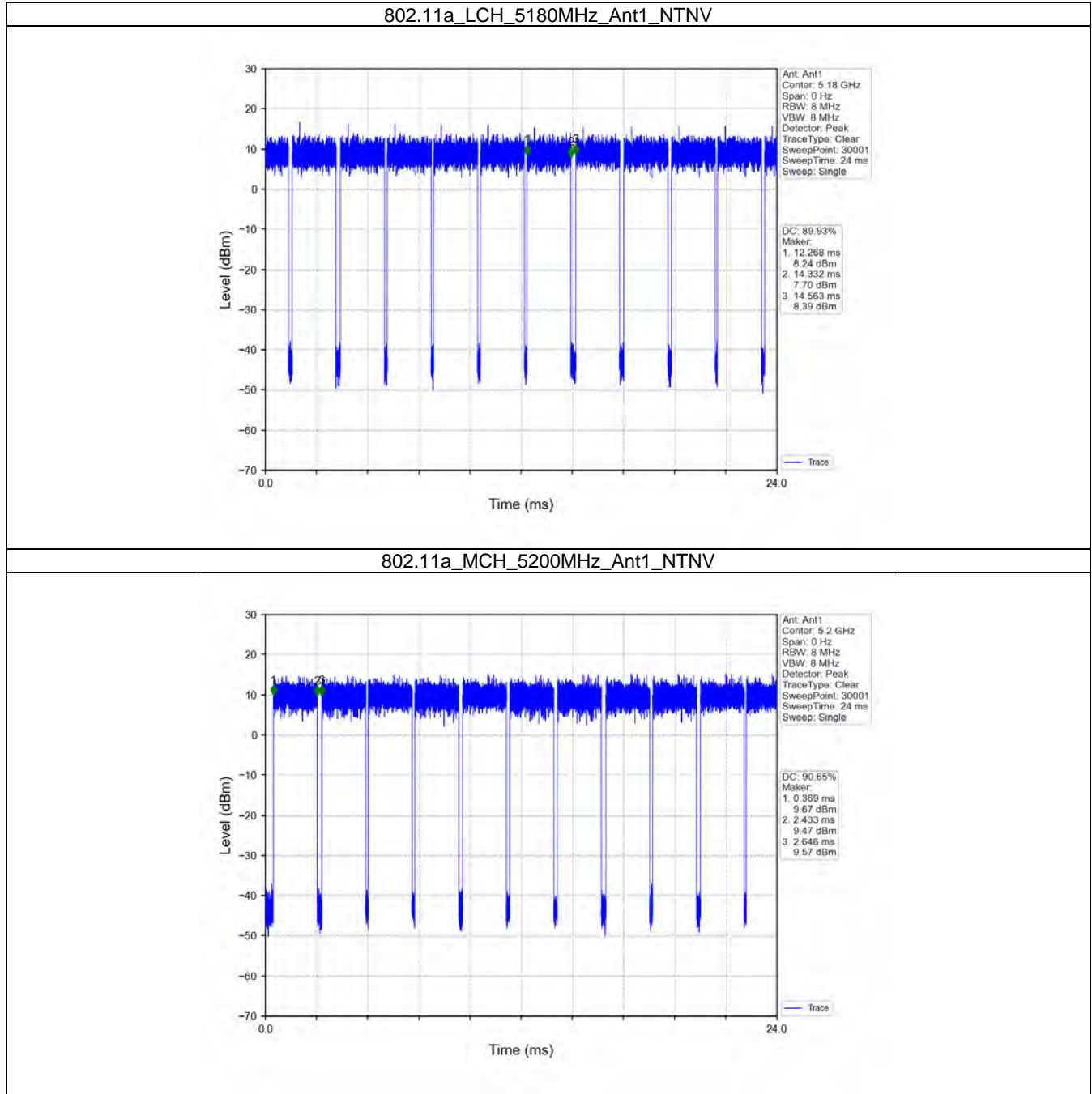


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1.1.2 Test Graph

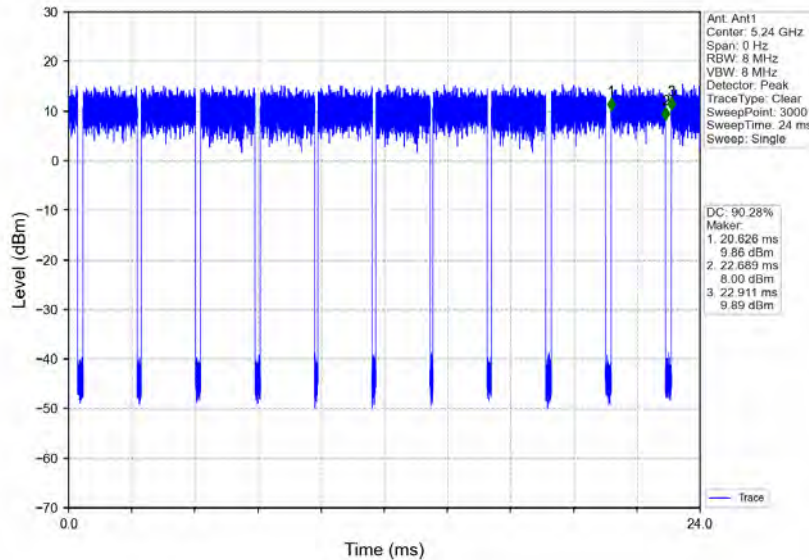


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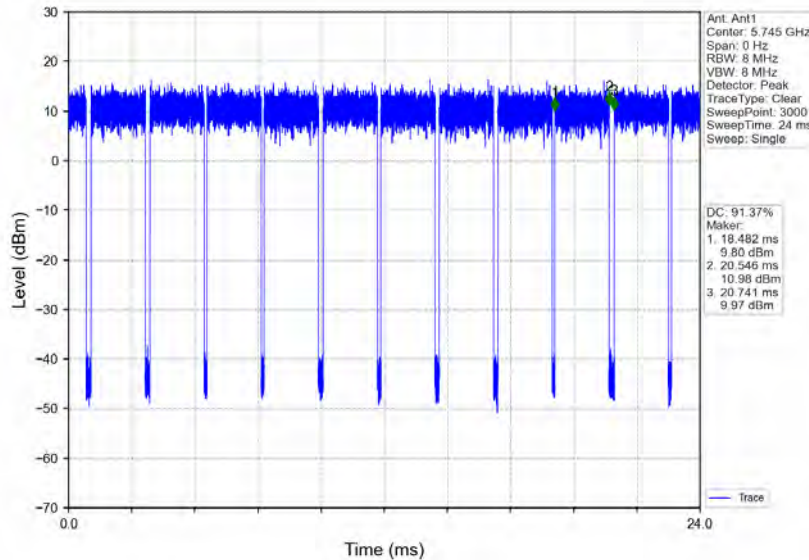
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



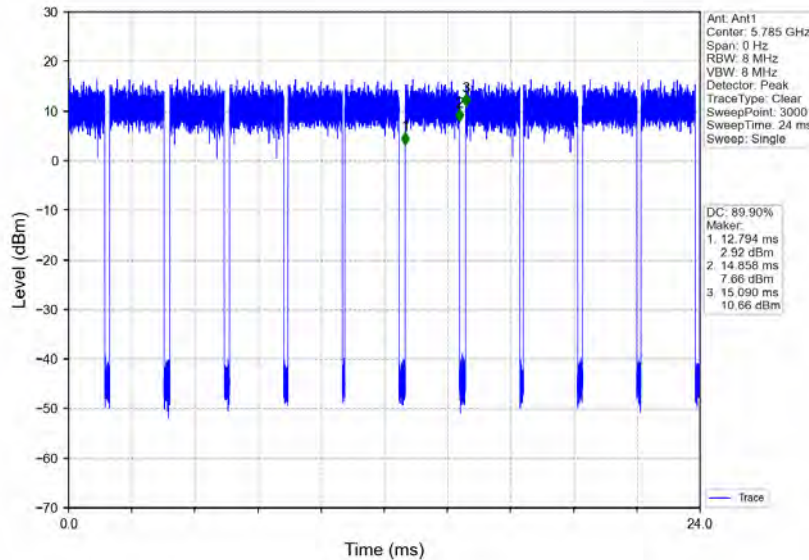
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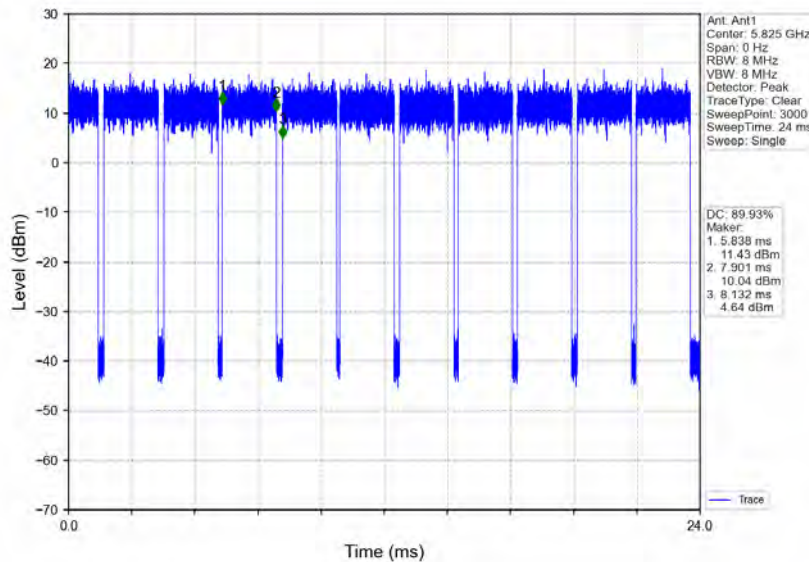
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



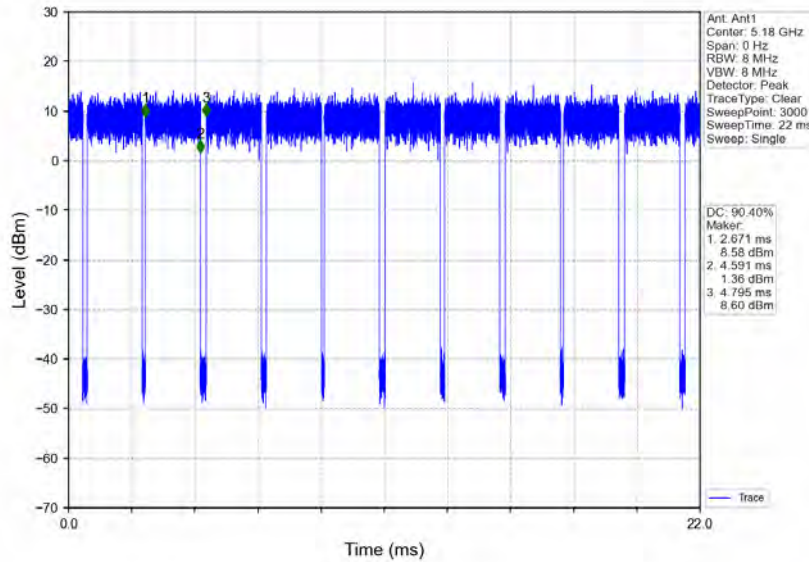
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



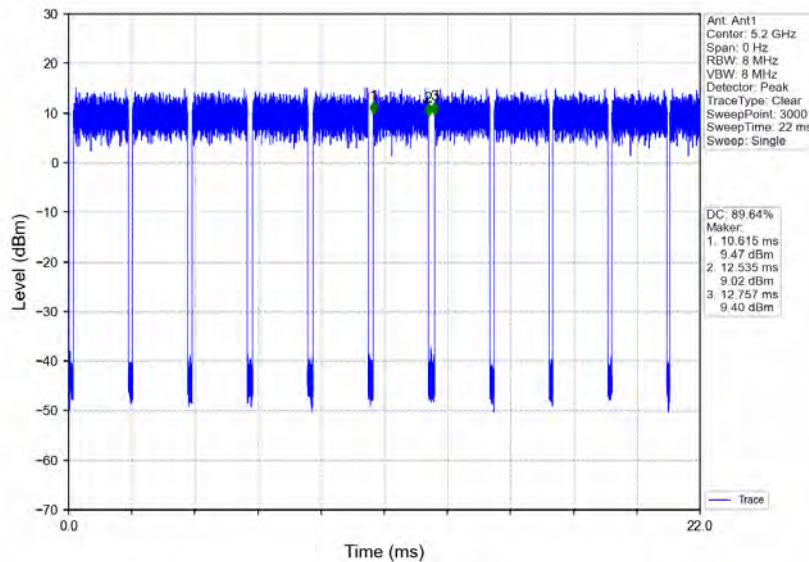
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



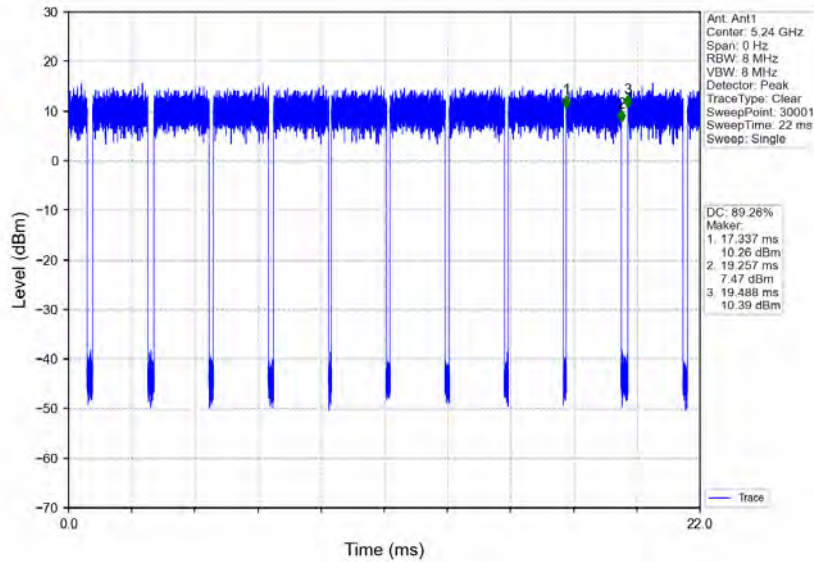
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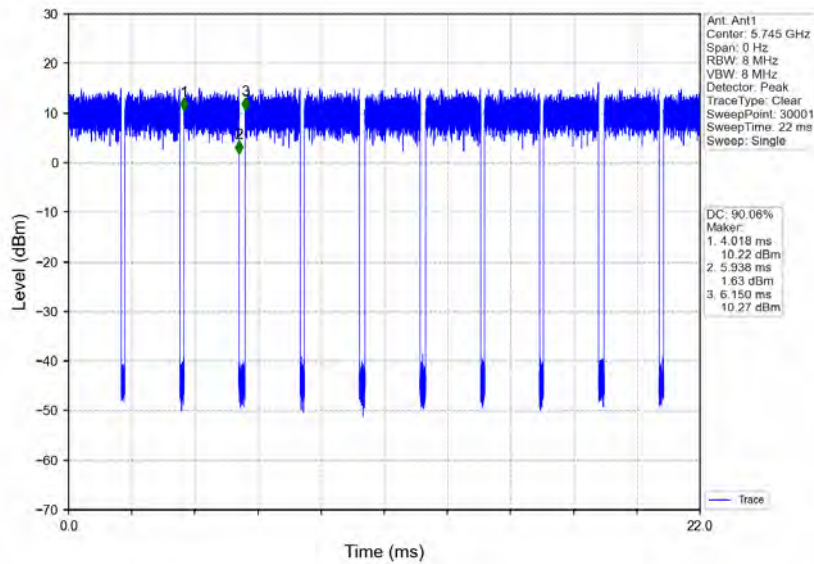
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



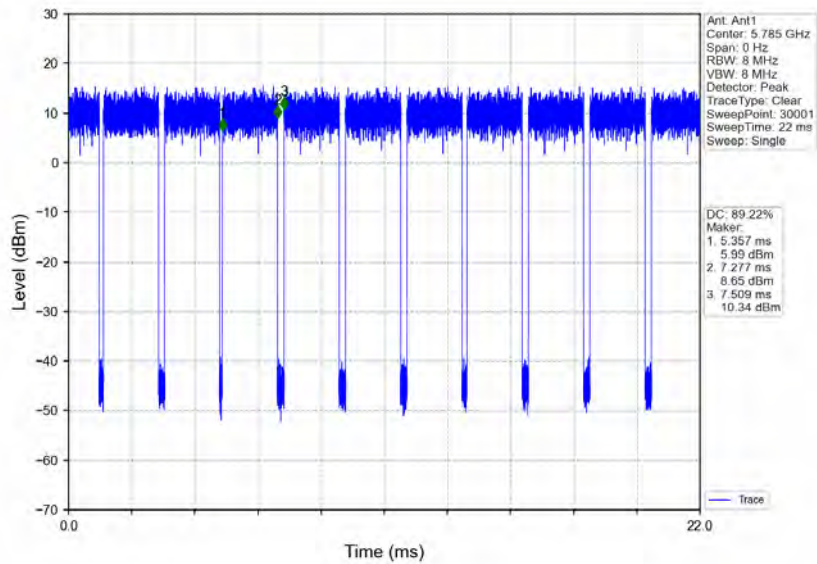
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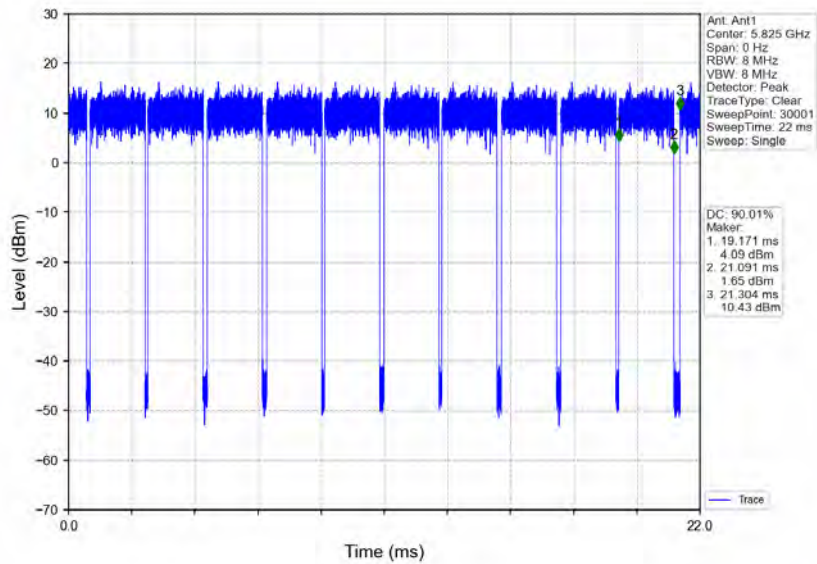
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



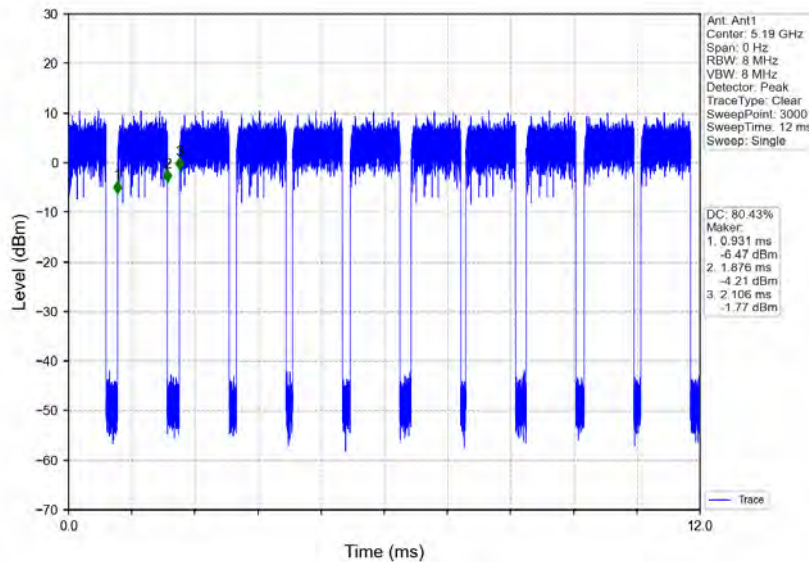
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



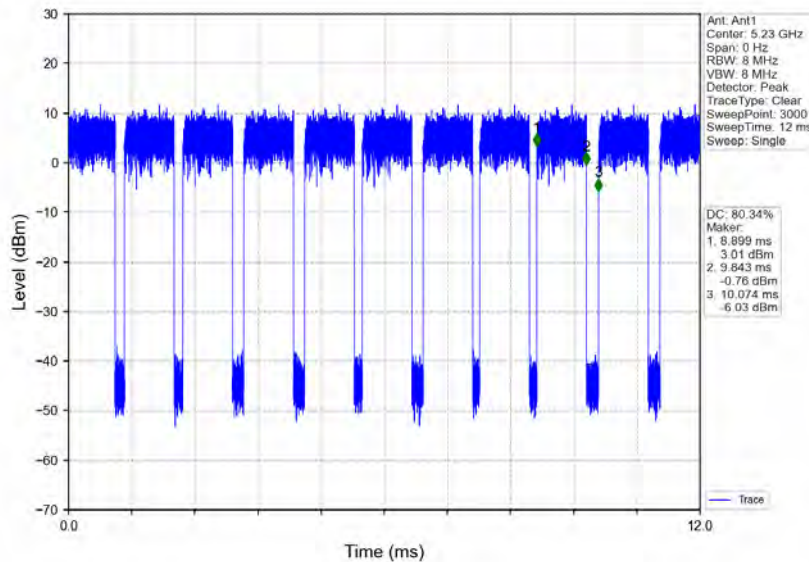
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



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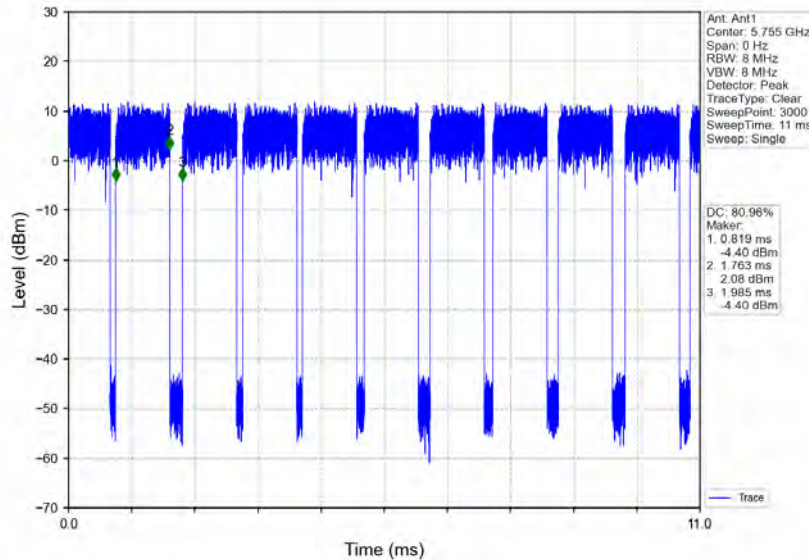
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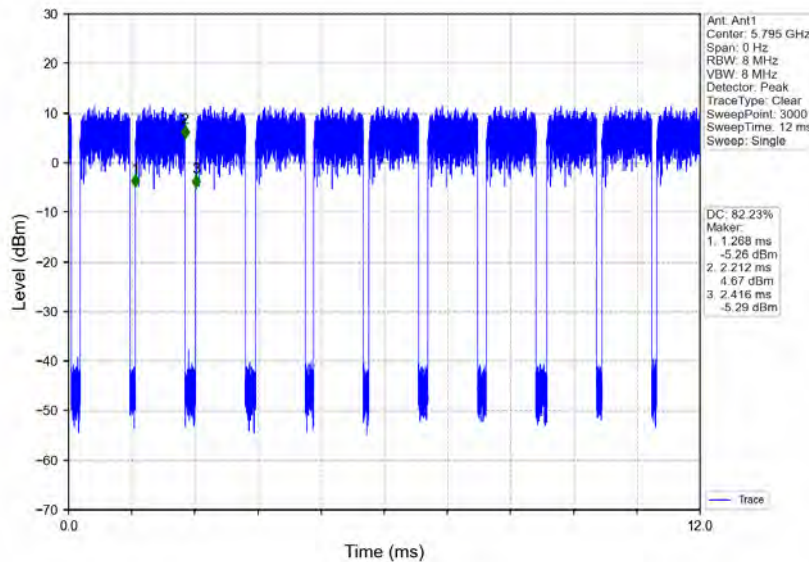
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



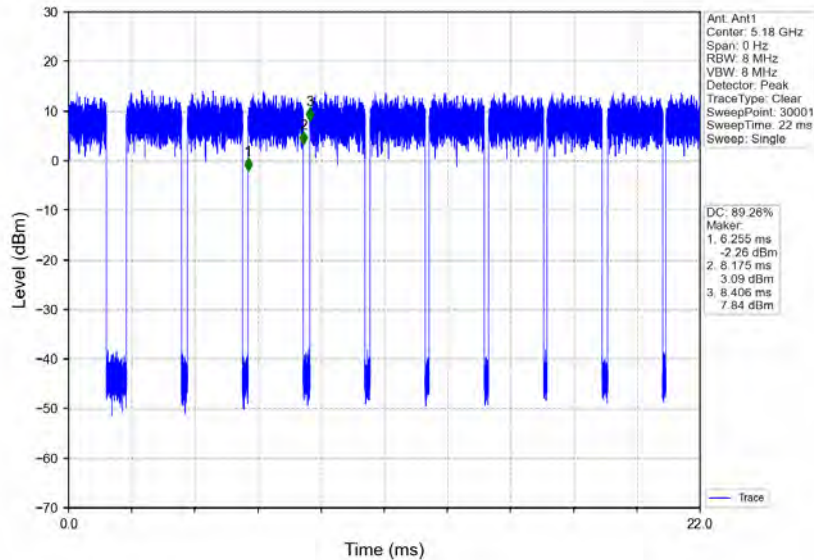
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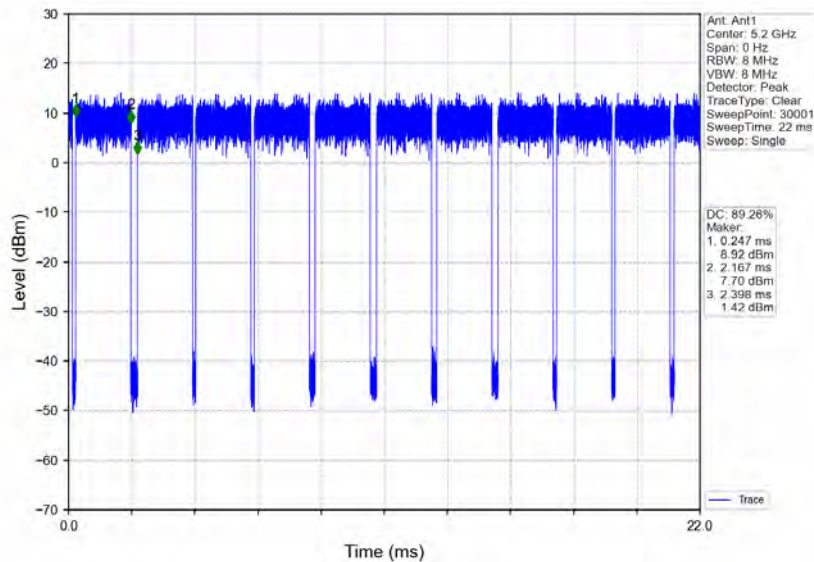
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



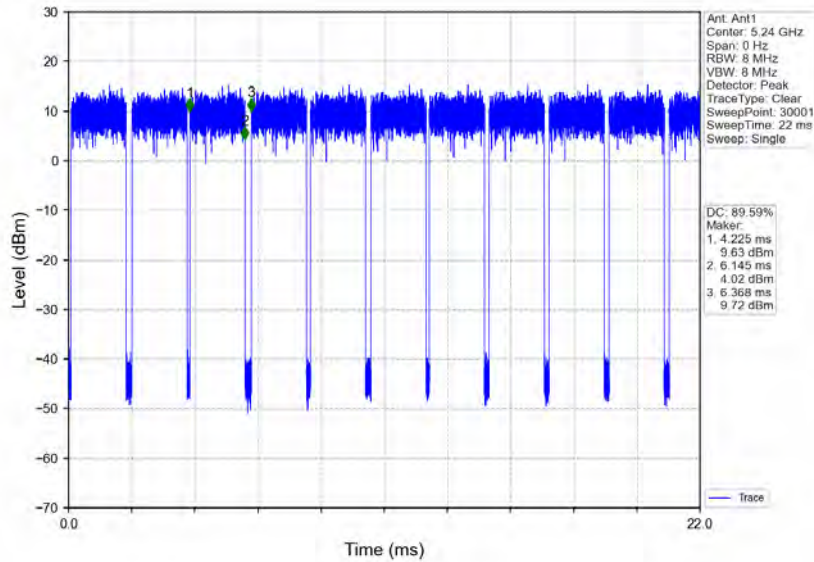
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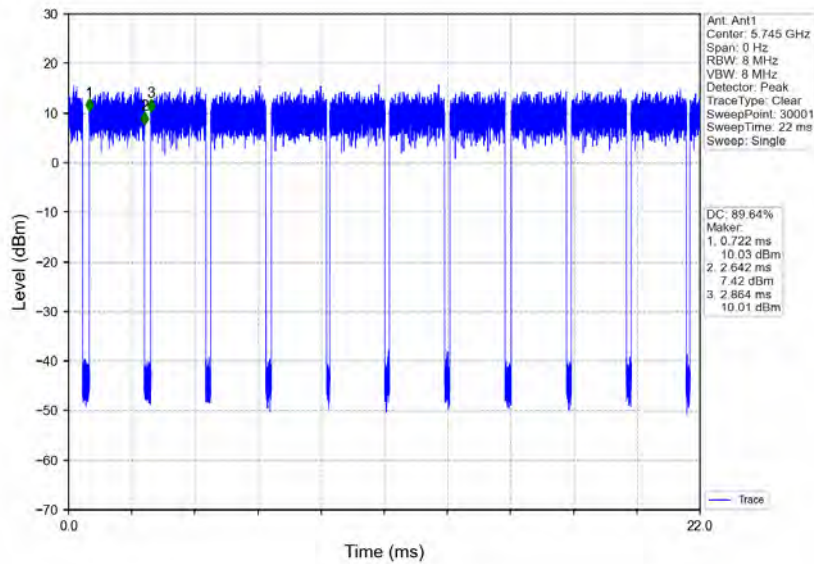
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



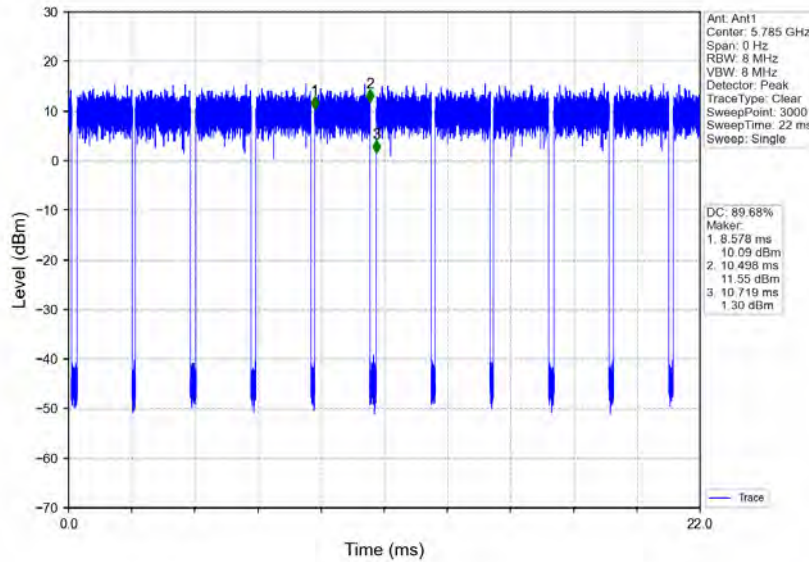
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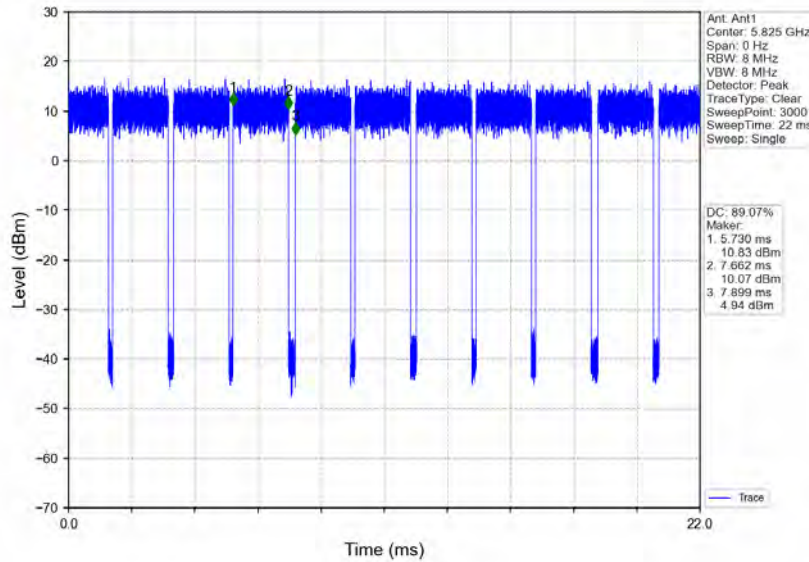
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



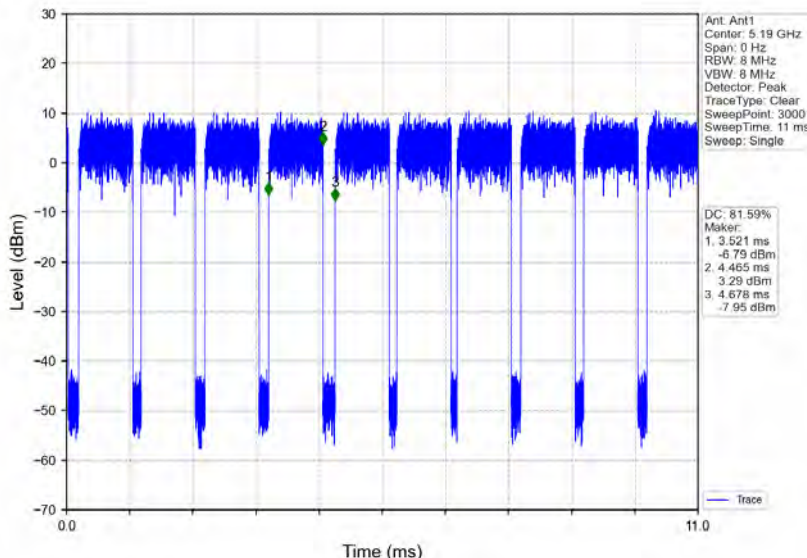
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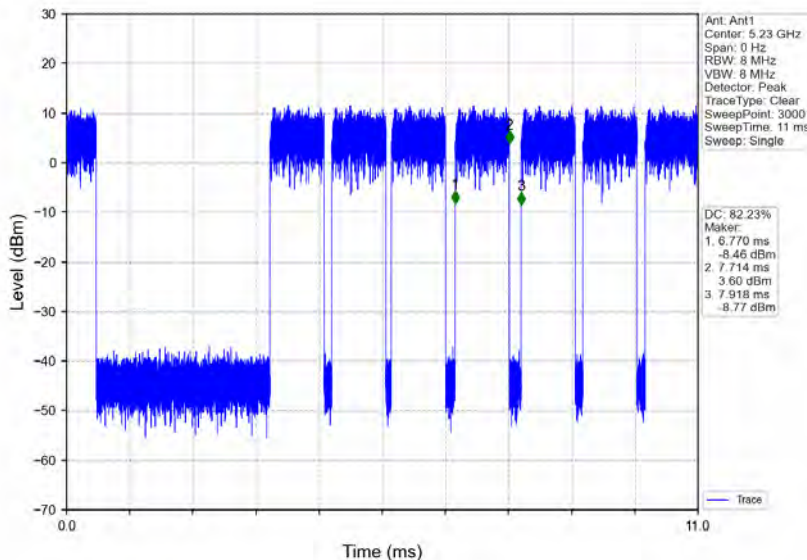
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



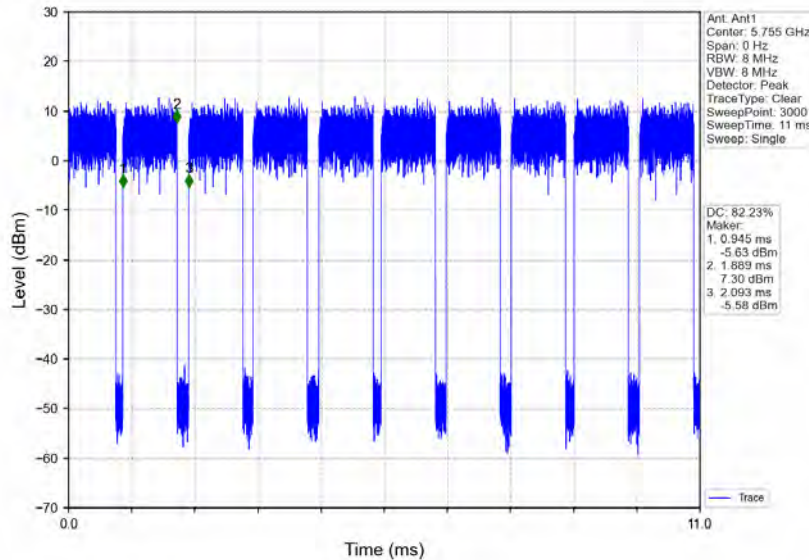
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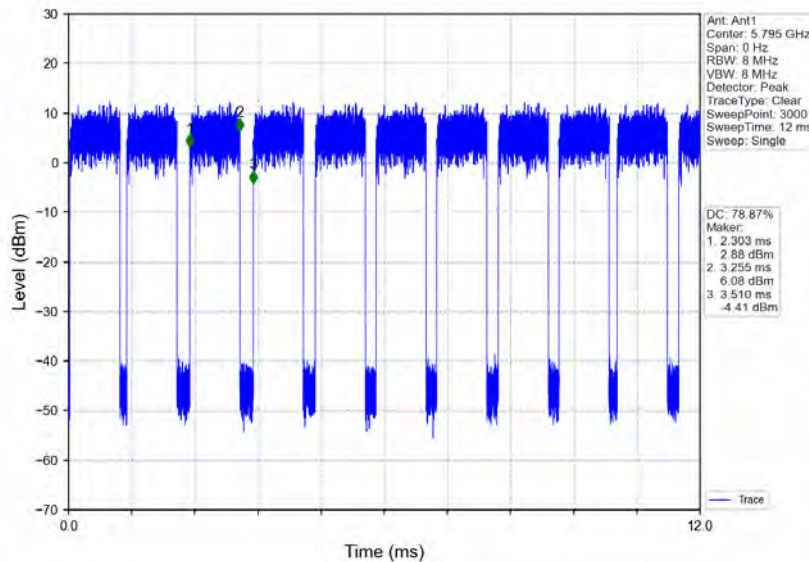
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



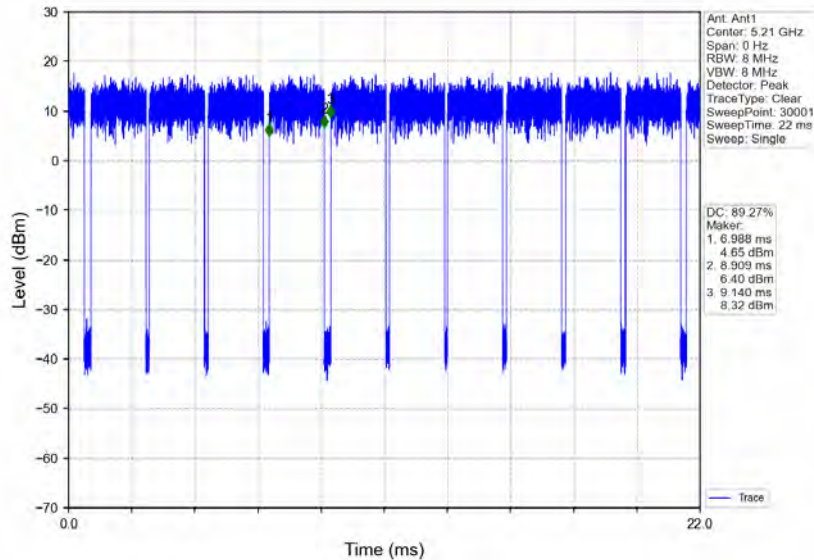
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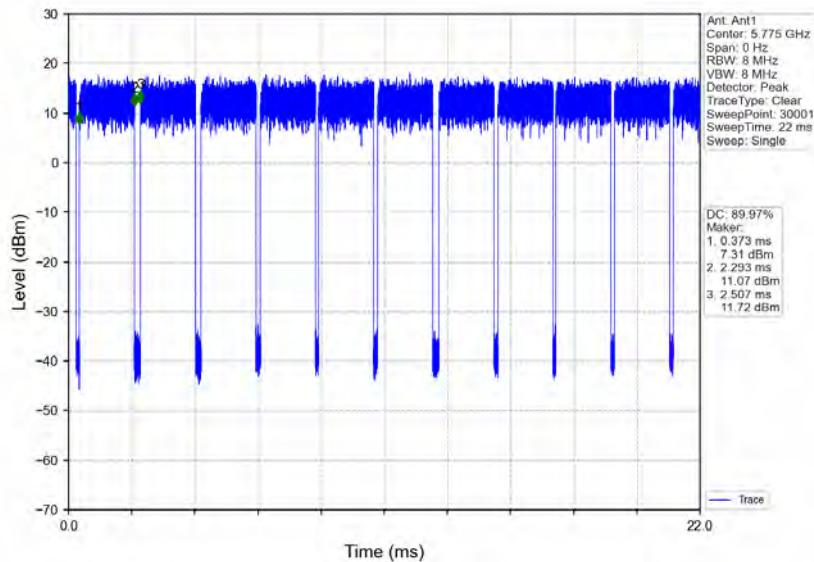
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 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	16.711	Pass
			2	16.646	Pass
		5200	1	16.680	Pass
			2	16.683	Pass
		5240	1	16.646	Pass
			2	16.703	Pass
		5745	1	16.683	Pass
			2	16.633	Pass
		5785	1	16.670	Pass
			2	16.636	Pass
		5825	1	16.709	Pass
			2	16.657	Pass
802.11n (HT20)	MIMO	5180	1	17.733	Pass
			2	17.776	Pass
		5200	1	17.771	Pass
			2	17.788	Pass
		5240	1	17.763	Pass
			2	17.756	Pass
		5745	1	17.774	Pass
			2	17.773	Pass
		5785	1	17.774	Pass
			2	17.747	Pass
		5825	1	17.733	Pass
			2	17.784	Pass
802.11n (HT40)	MIMO	5190	1	36.441	Pass
			2	36.354	Pass
		5230	1	36.364	Pass
			2	36.346	Pass
		5755	1	36.561	Pass
			2	36.432	Pass
5795	1	36.423	Pass		
	2	36.538	Pass		
802.11ac (VHT20)	MIMO	5180	1	17.779	Pass
			2	17.776	Pass
		5200	1	17.782	Pass
			2	17.780	Pass
		5240	1	17.733	Pass
			2	17.832	Pass
		5745	1	17.757	Pass
			2	17.773	Pass



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		5785	1	17.765	Pass
			2	17.743	Pass
		5825	1	17.739	Pass
			2	17.764	Pass
802.11ac (VHT40)	MIMO	5190	1	36.275	Pass
			2	36.331	Pass
		5230	1	36.277	Pass
			2	36.505	Pass
		5755	1	36.221	Pass
			2	36.343	Pass
		5795	1	36.335	Pass
			2	36.517	Pass
802.11ac (VHT80)	MIMO	5210	1	75.280	Pass
			2	75.186	Pass
		5775	1	74.982	Pass
			2	74.885	Pass



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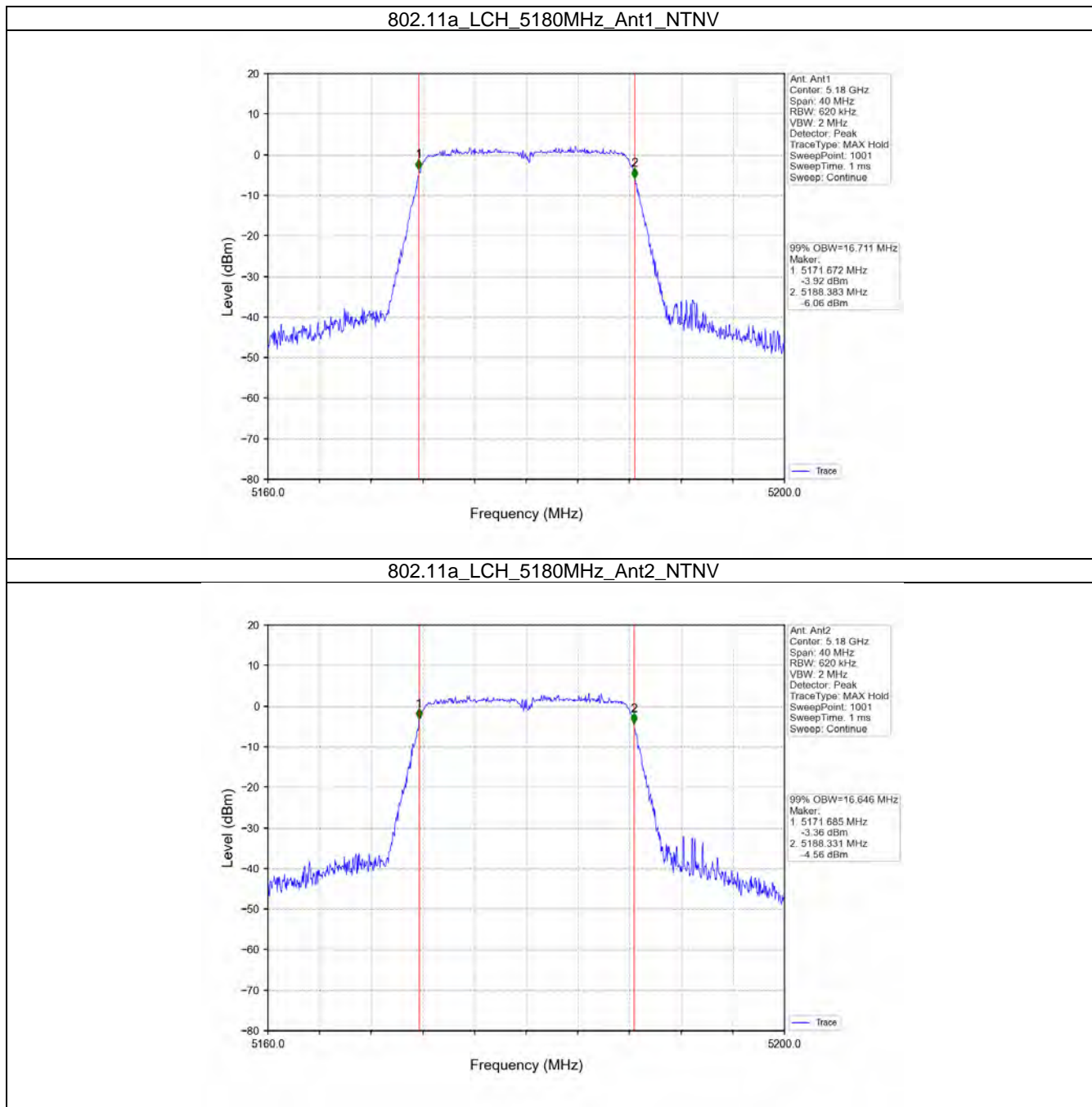
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2.1.2 Test Graph



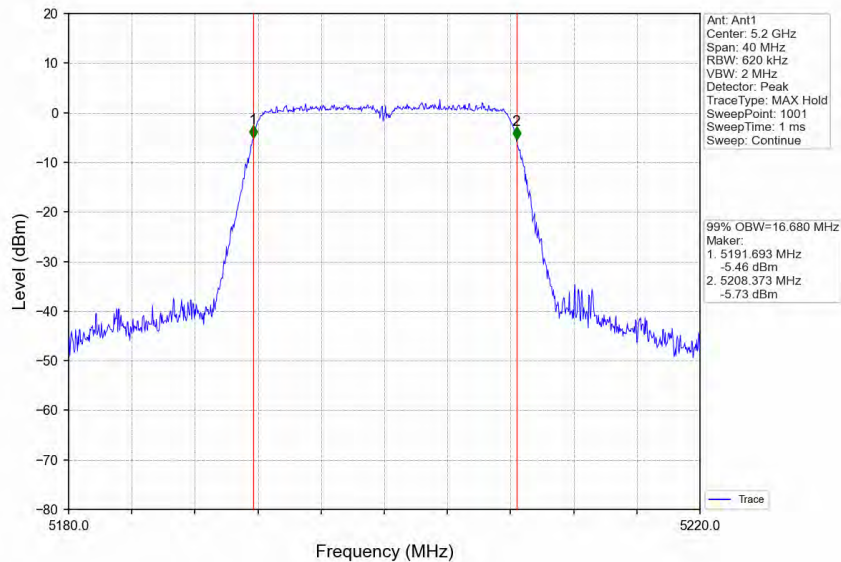
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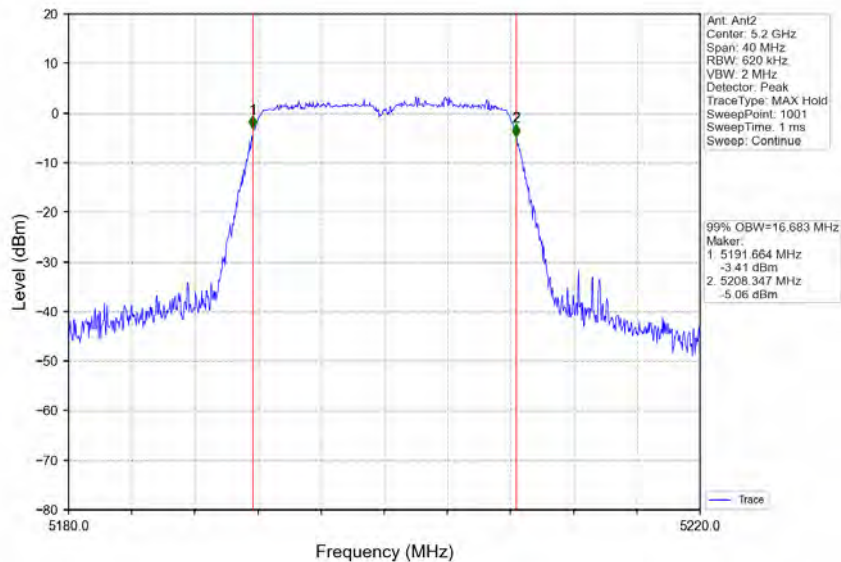
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



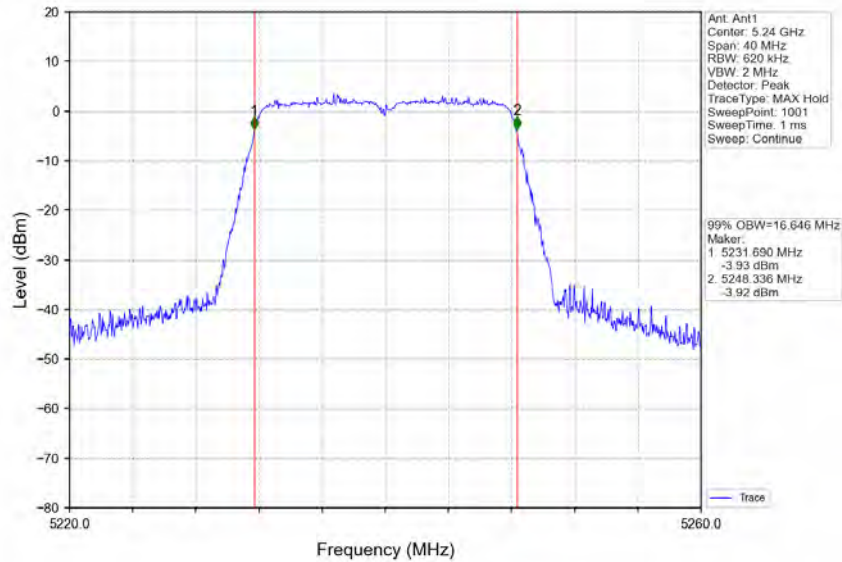
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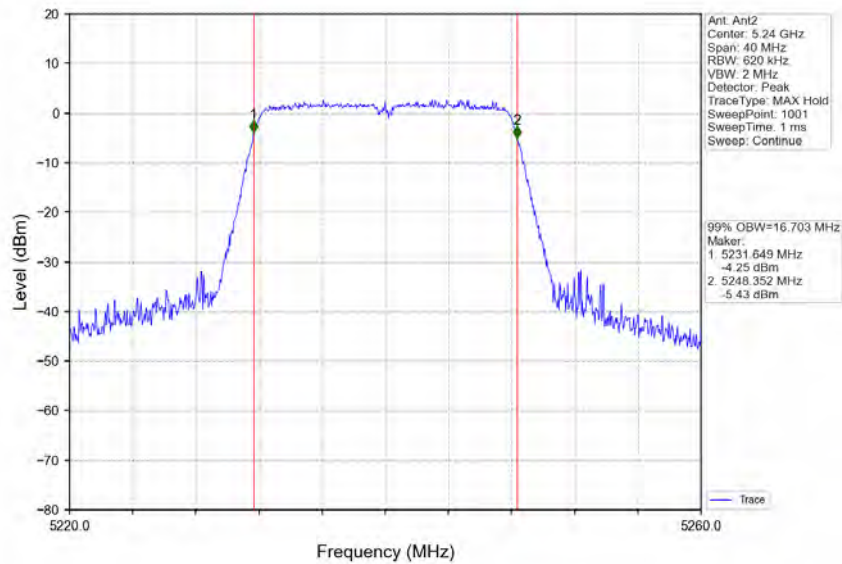
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



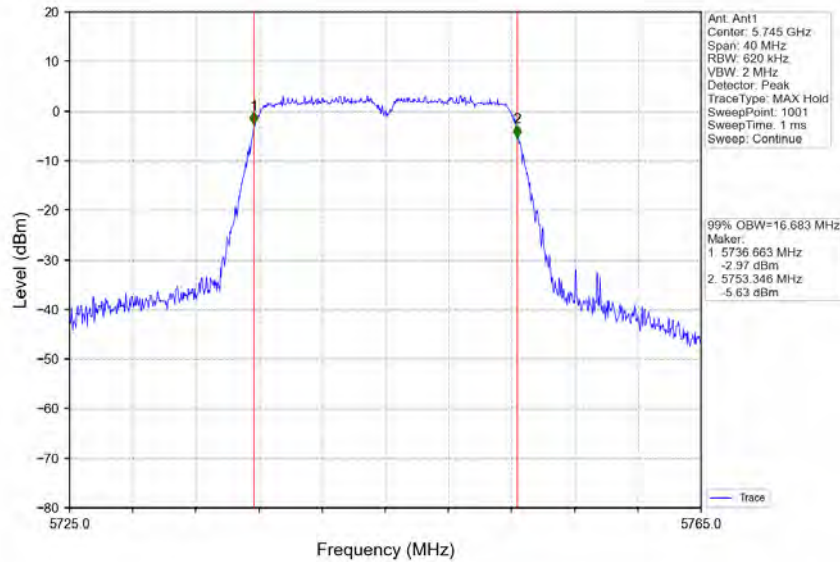
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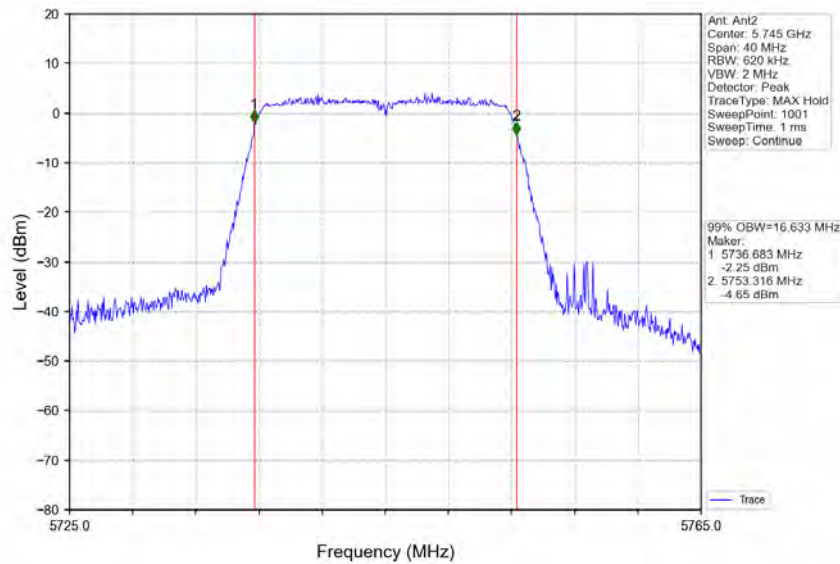
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



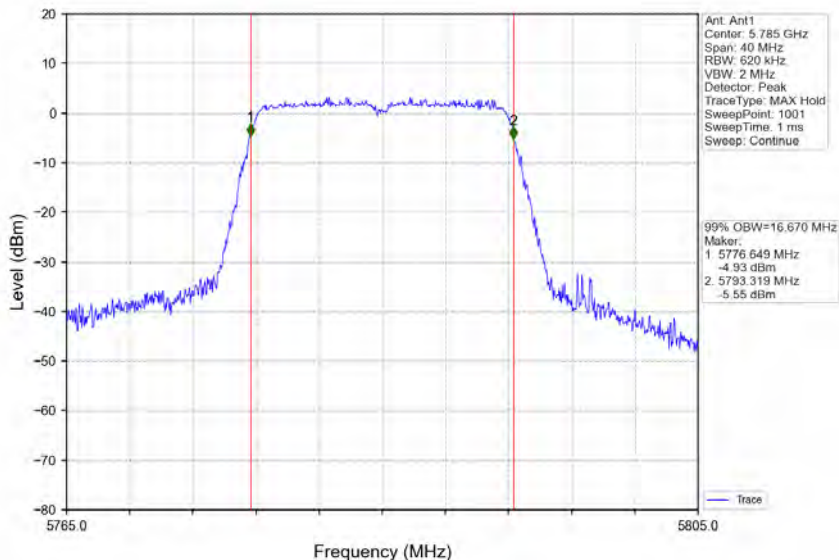
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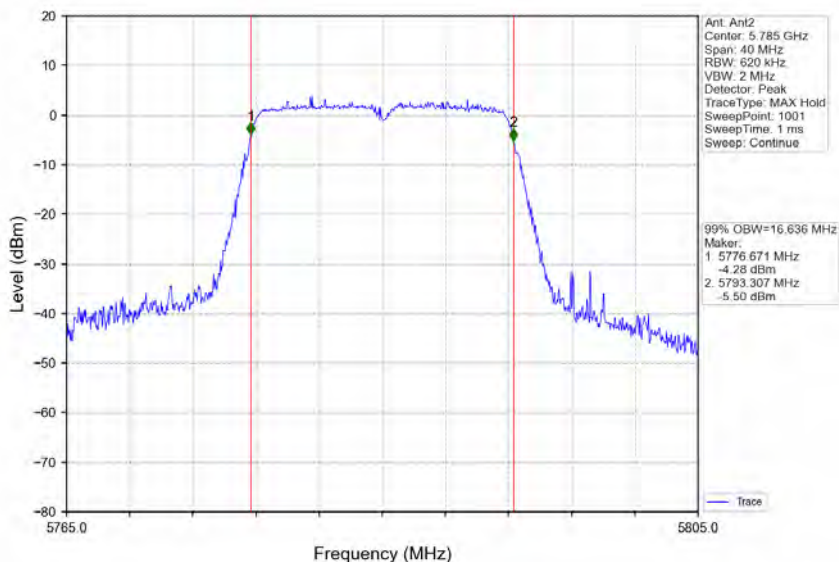
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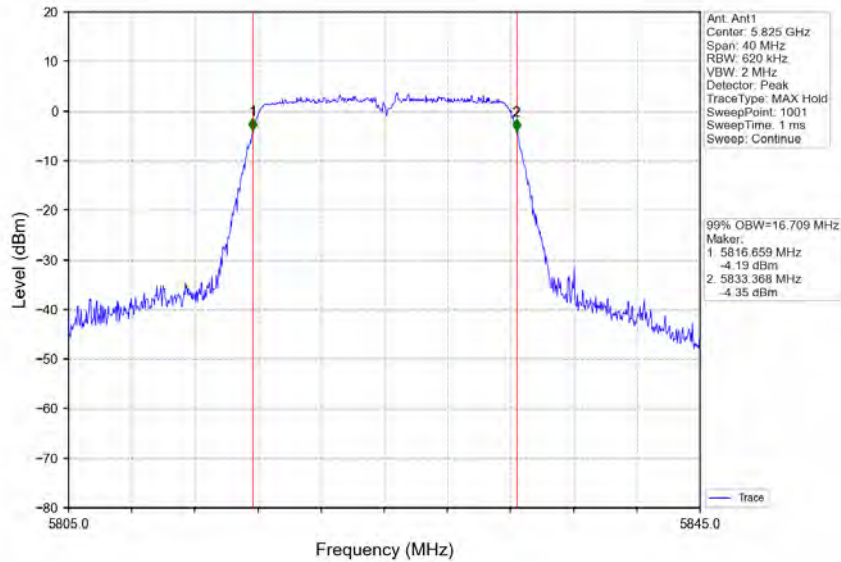
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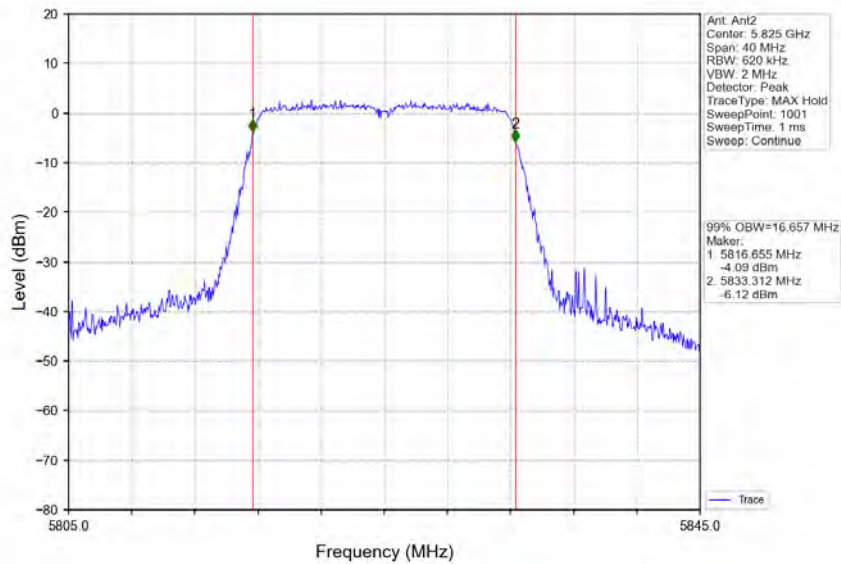
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



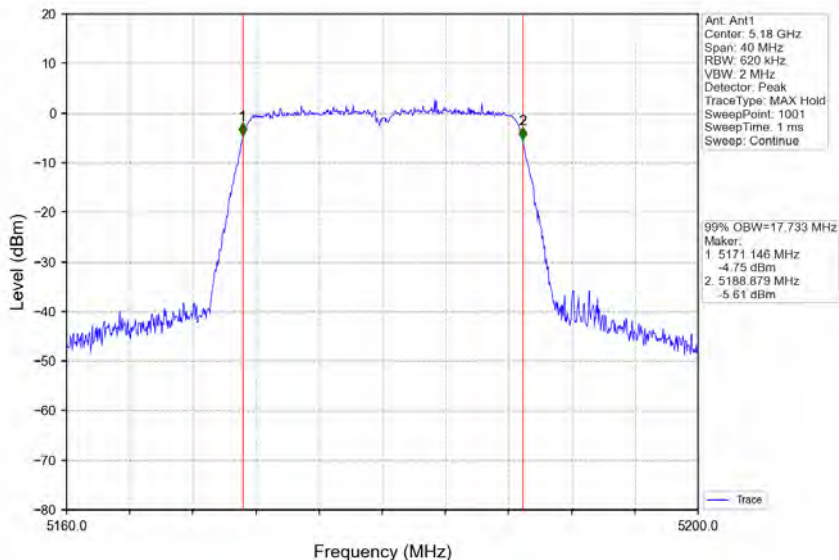
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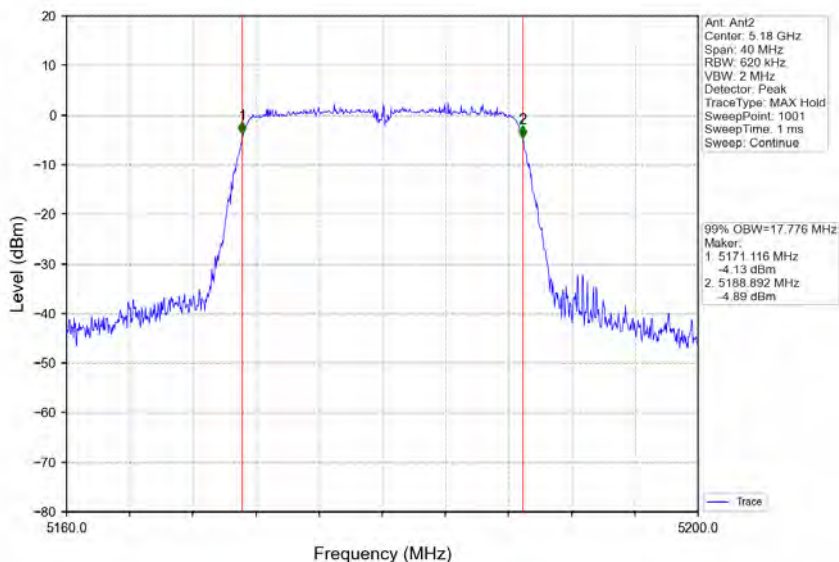
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV

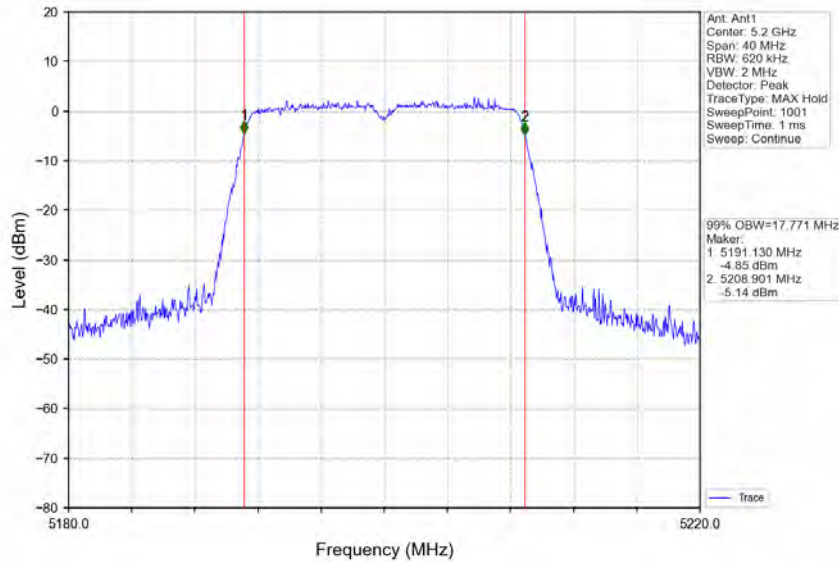


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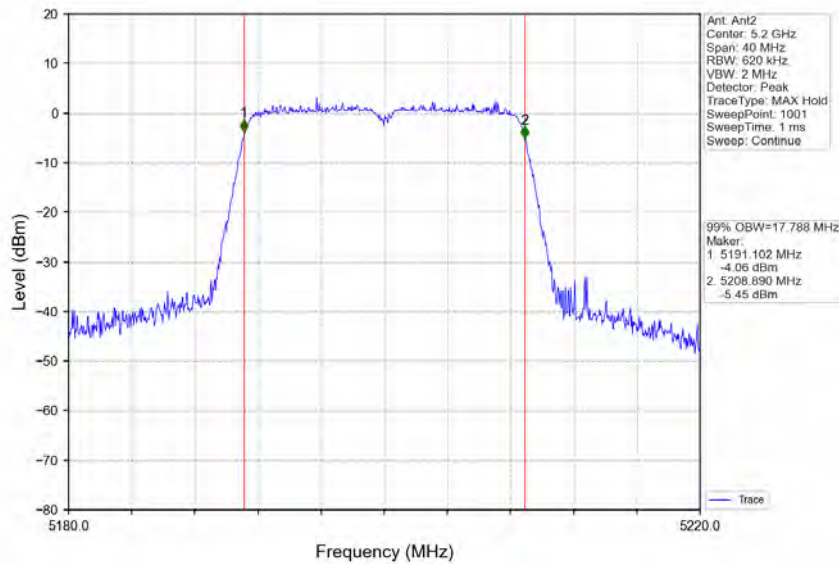
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV

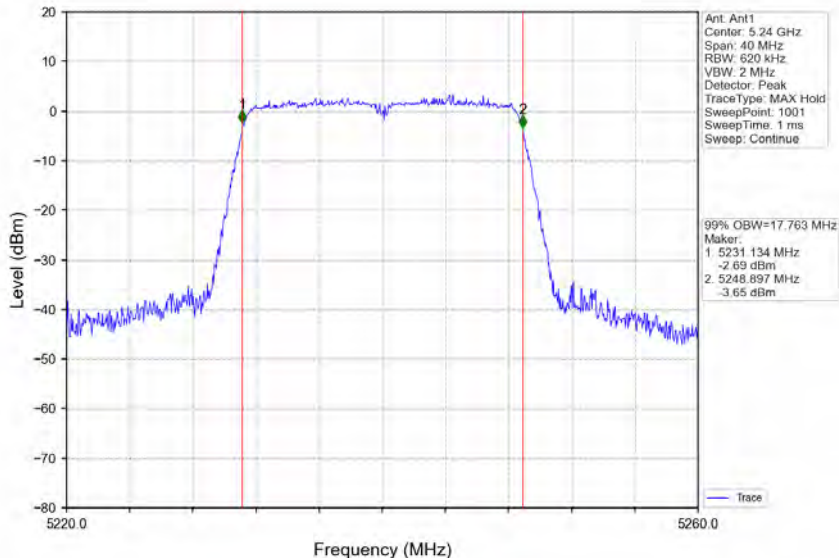


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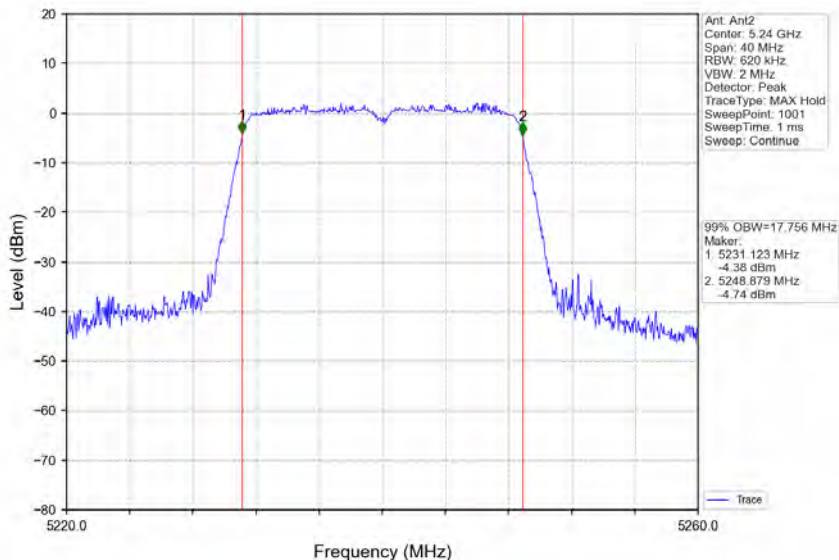
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



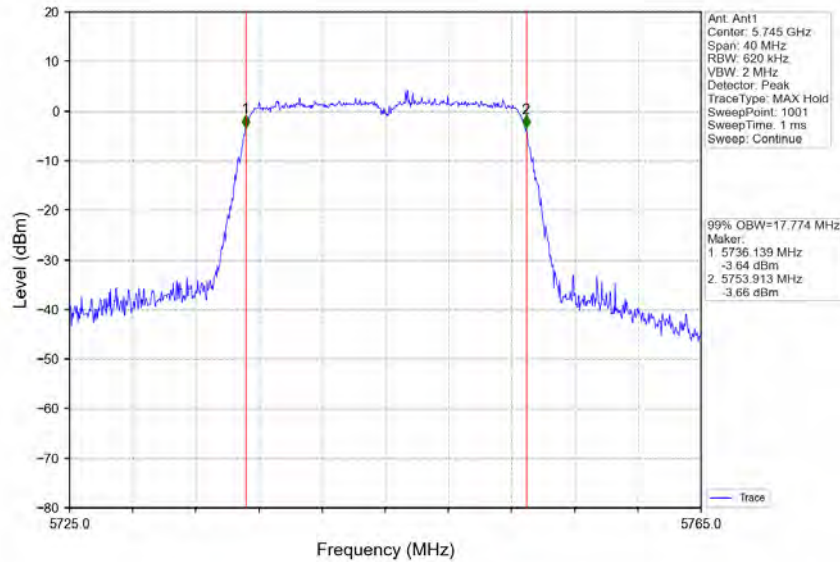
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



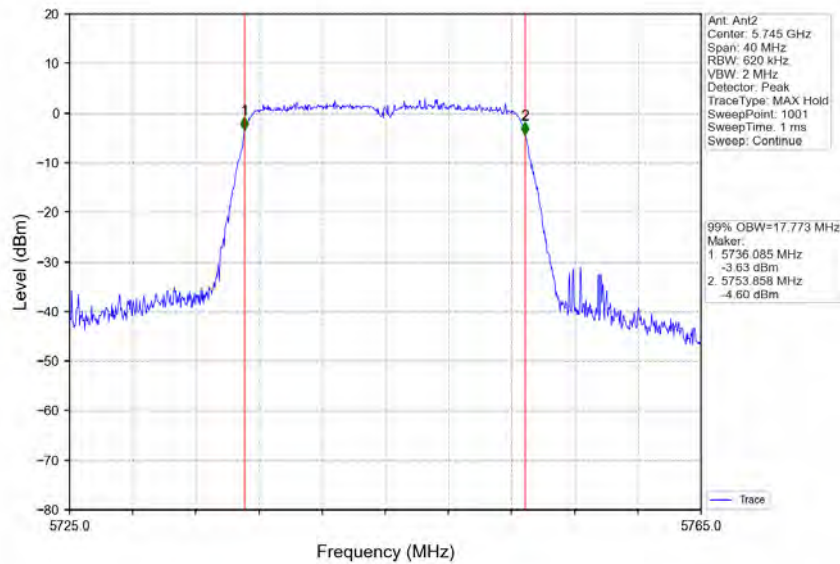
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



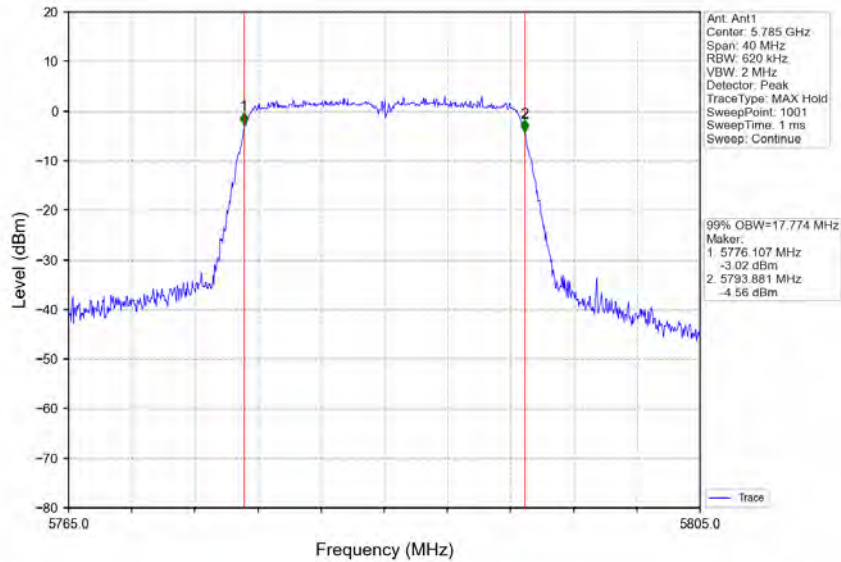
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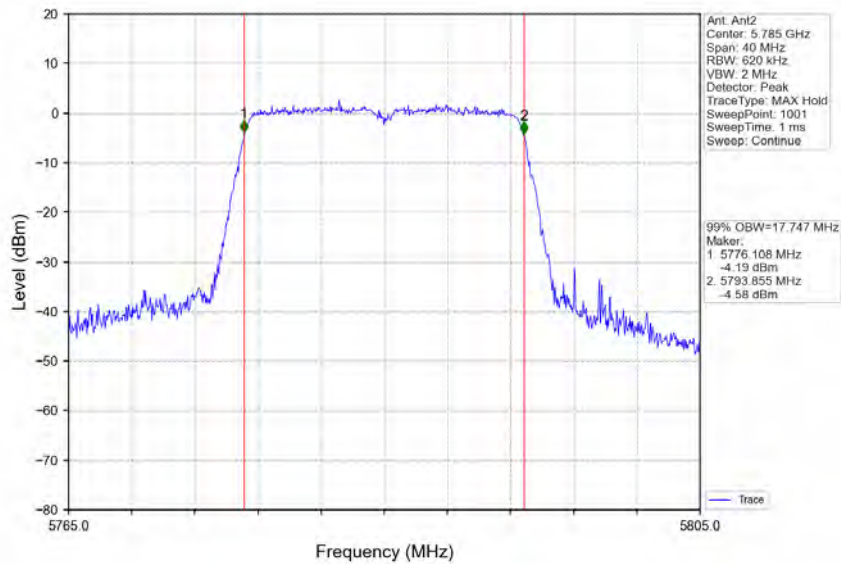
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



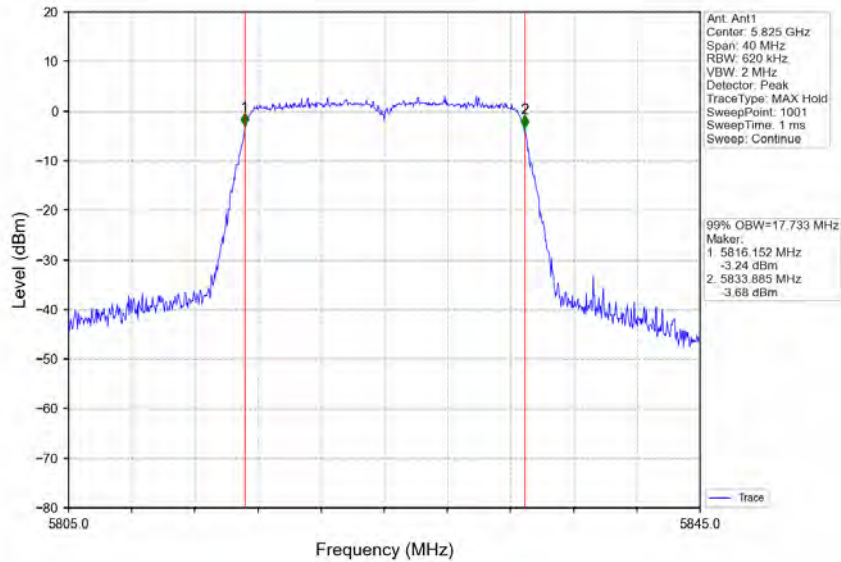
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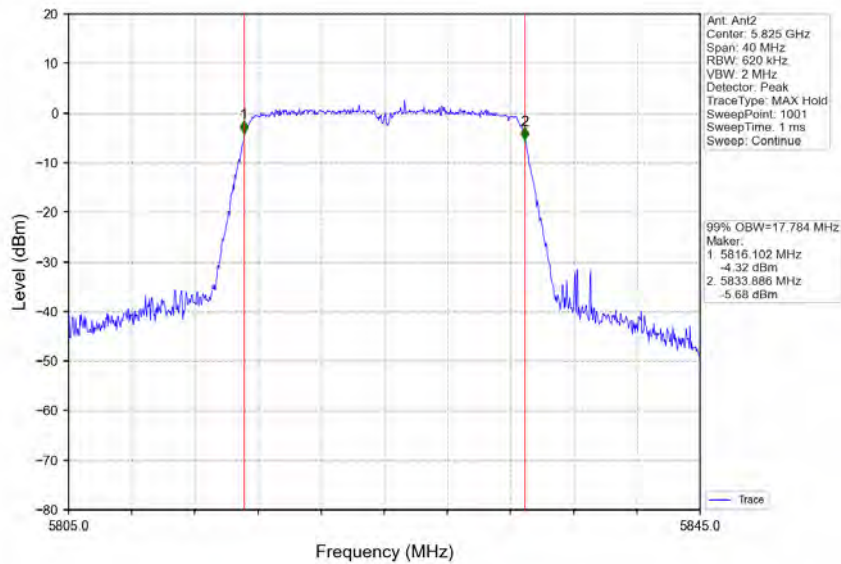
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



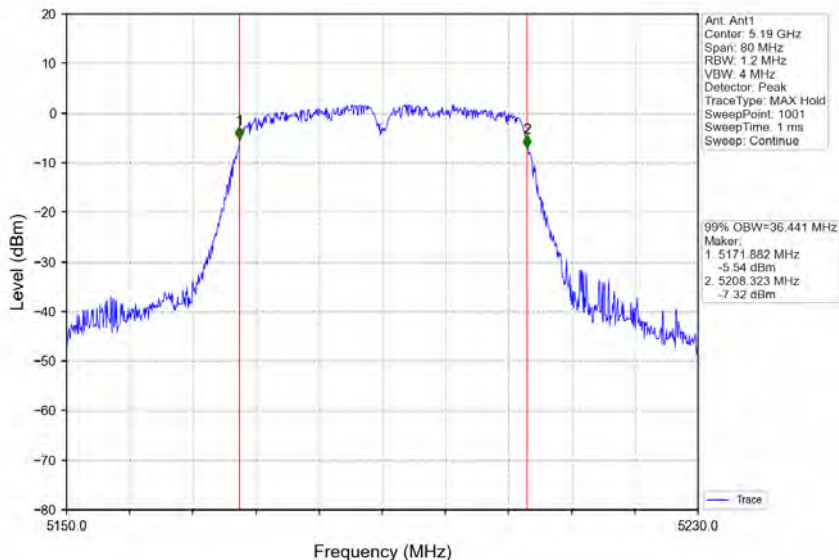
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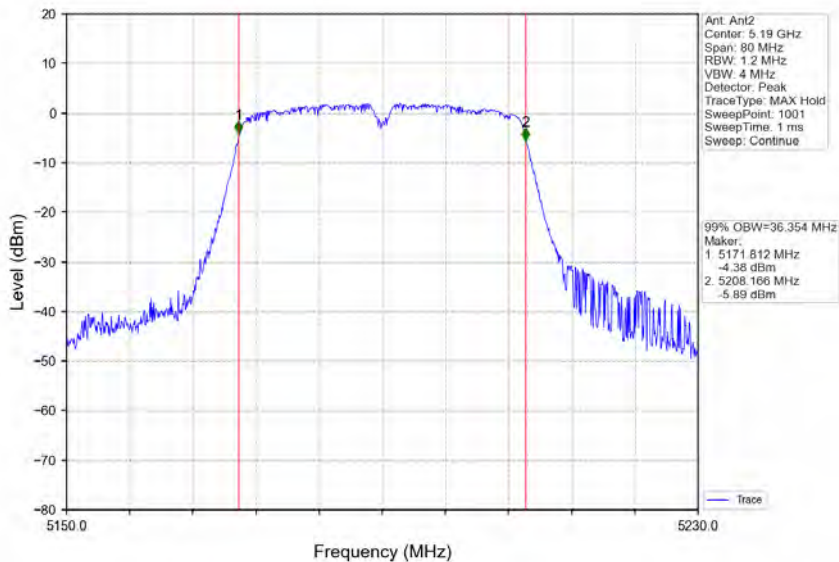
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



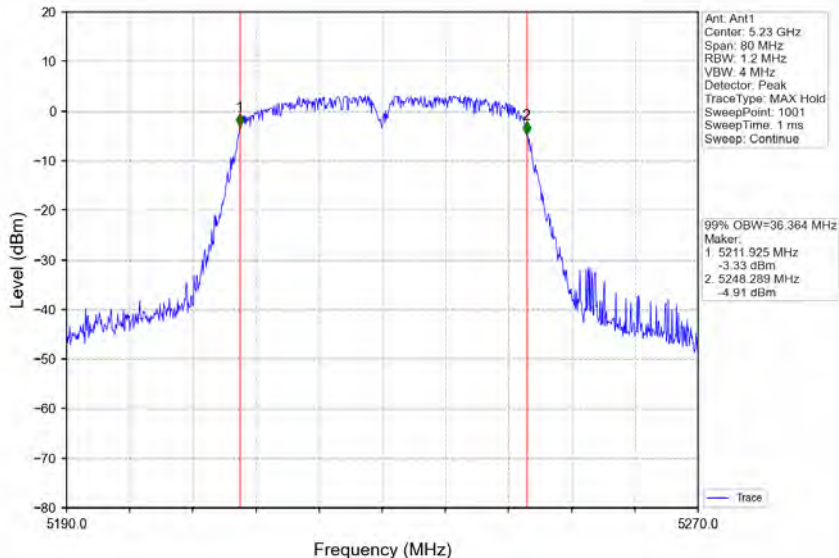
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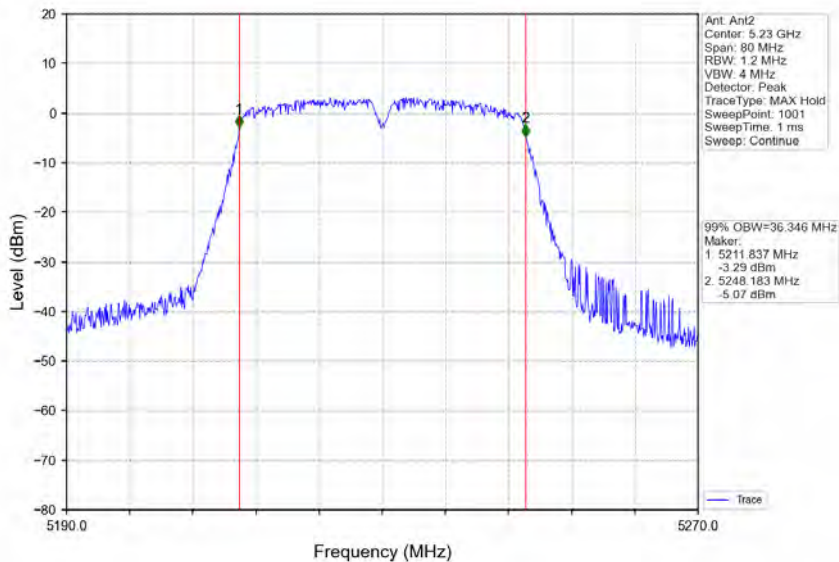
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802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV

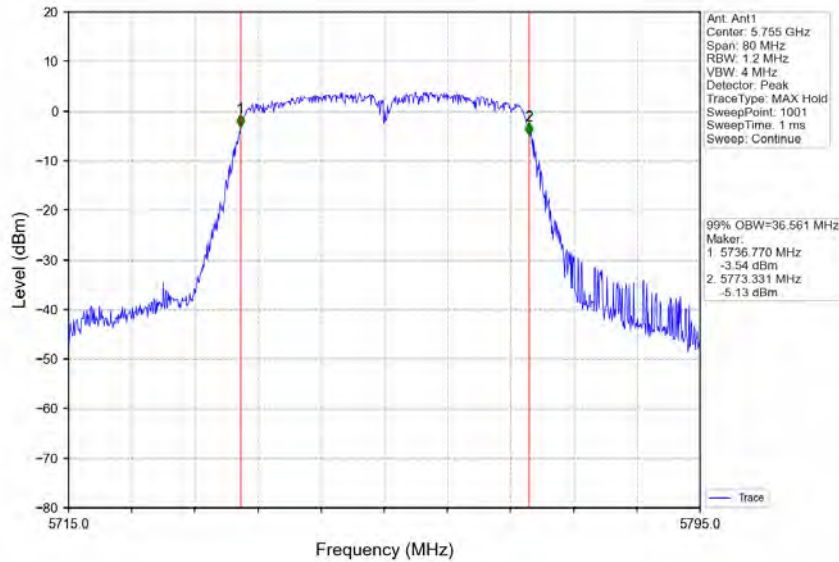


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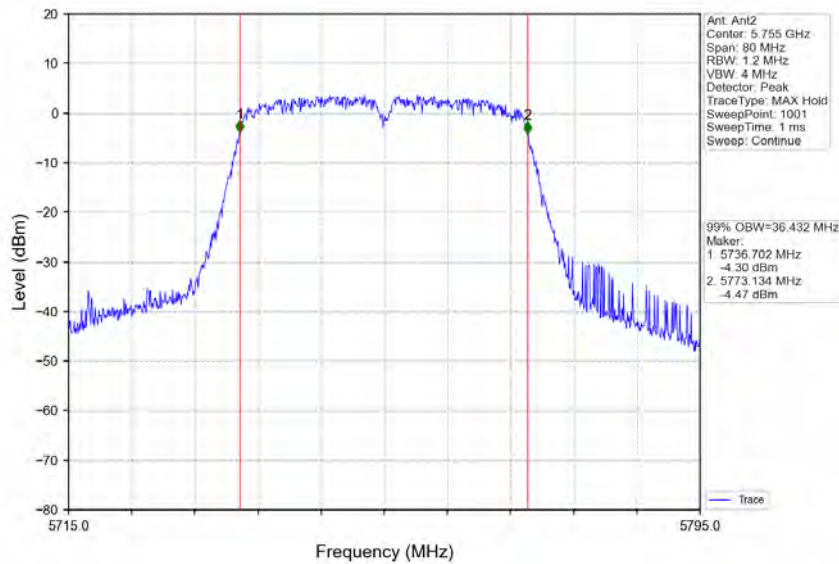
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



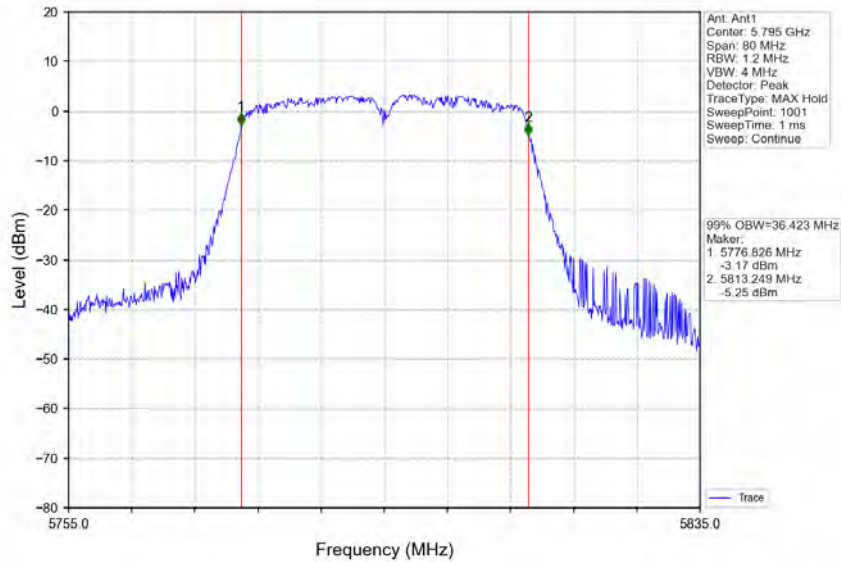
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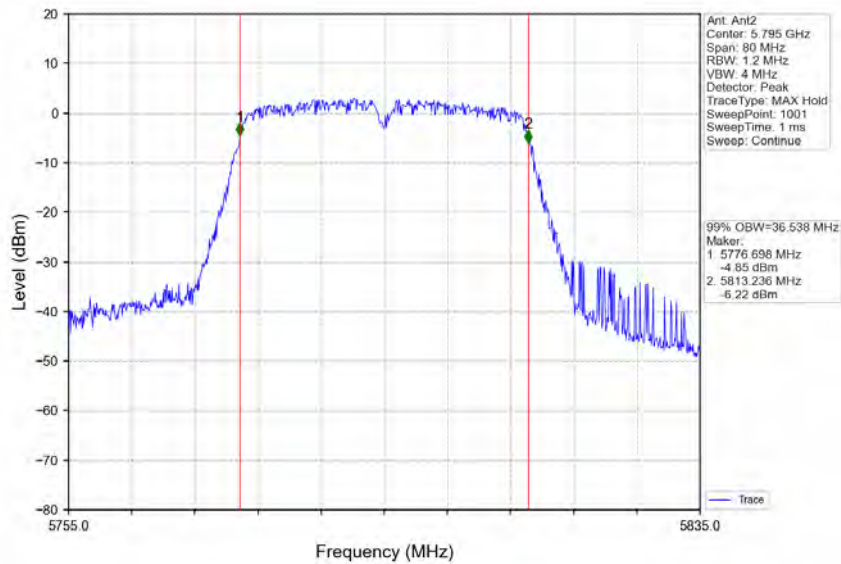
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



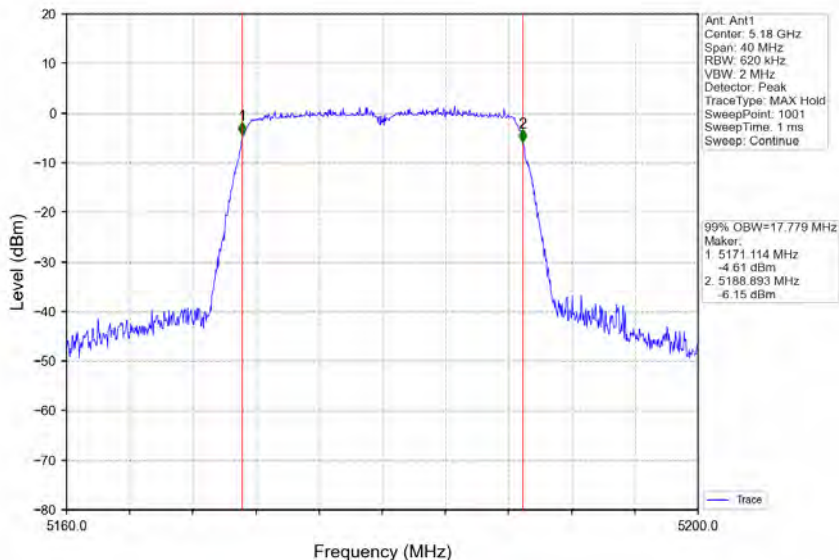
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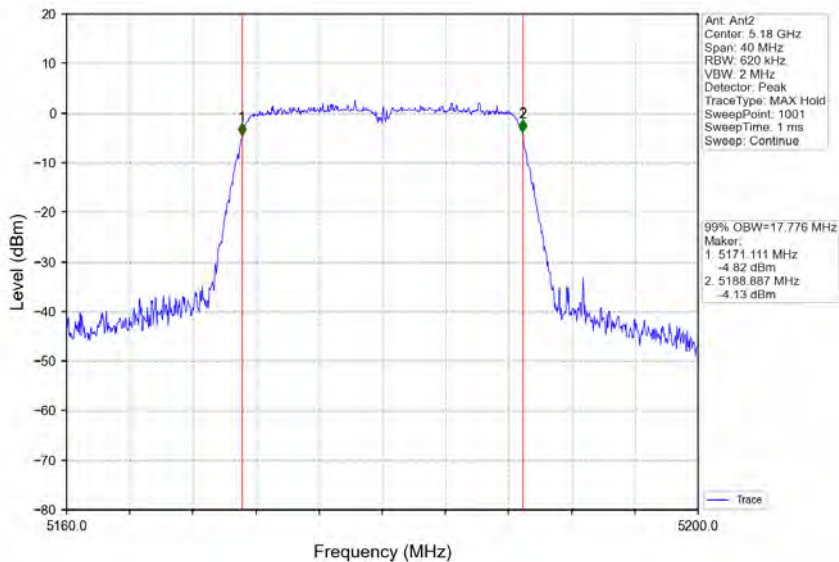
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



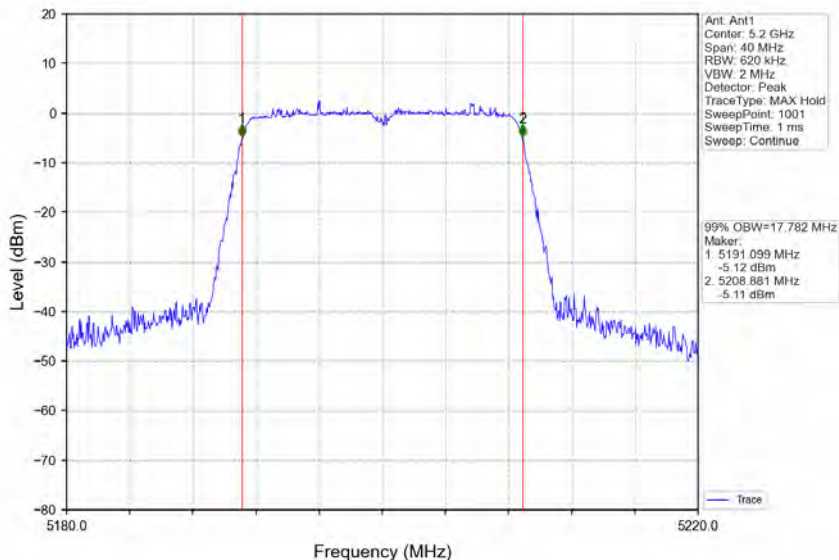
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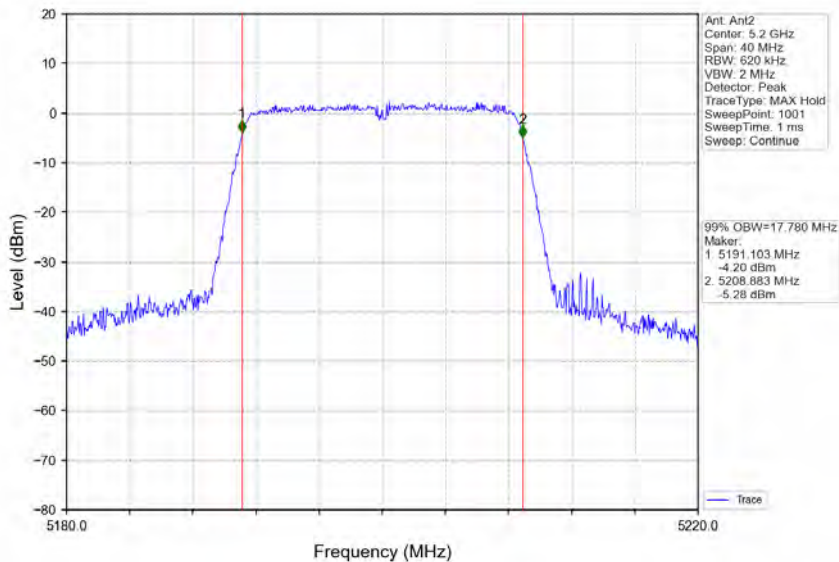
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



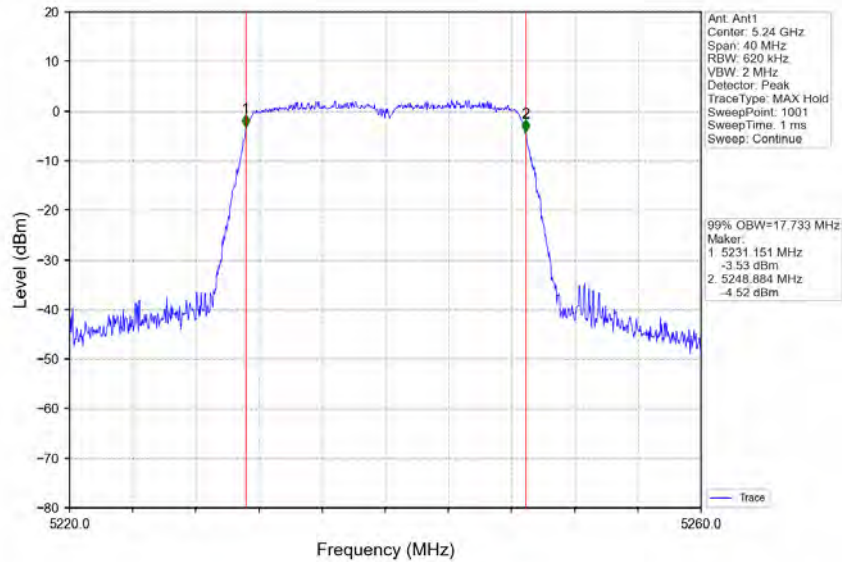
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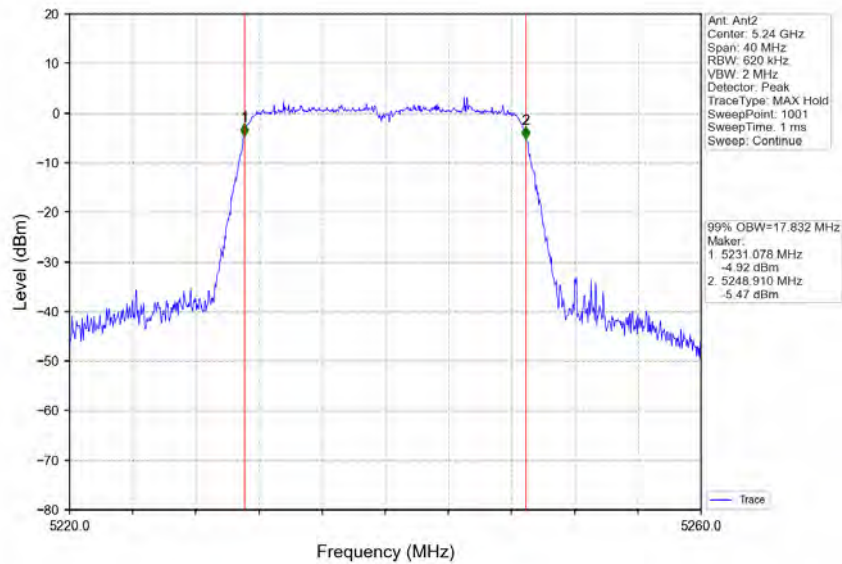
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



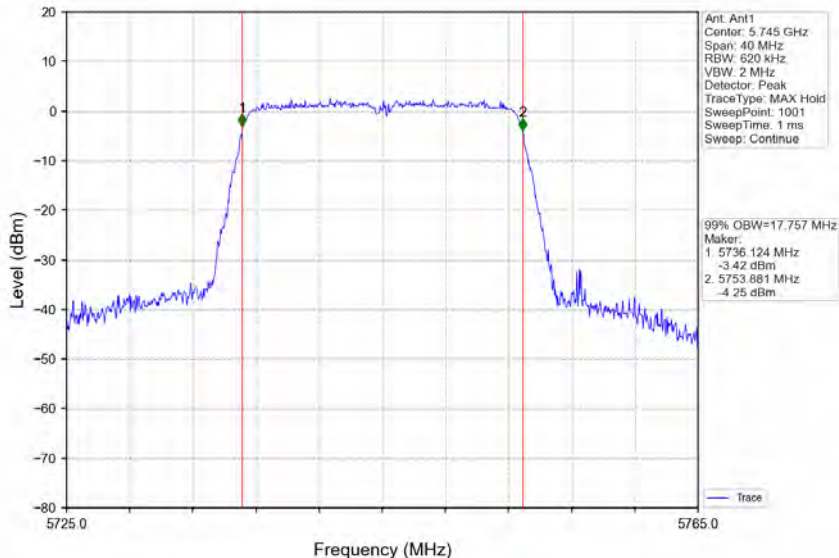
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



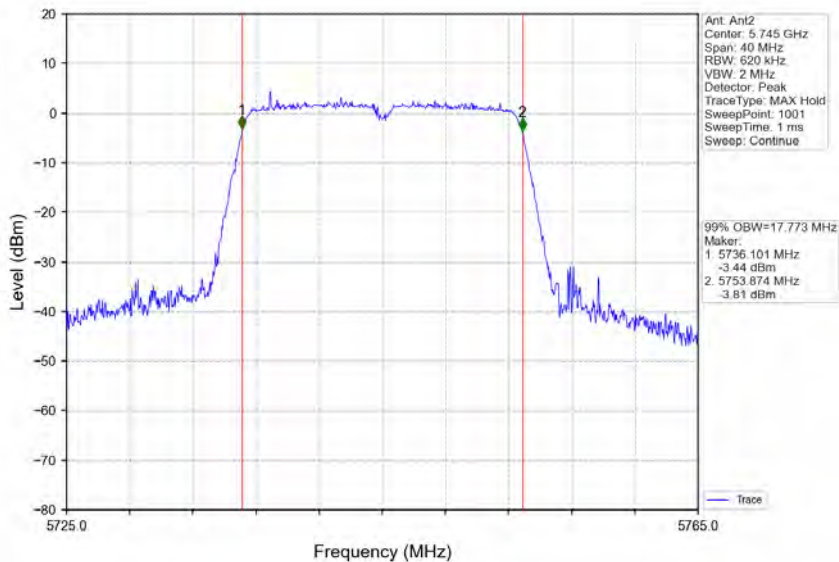
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



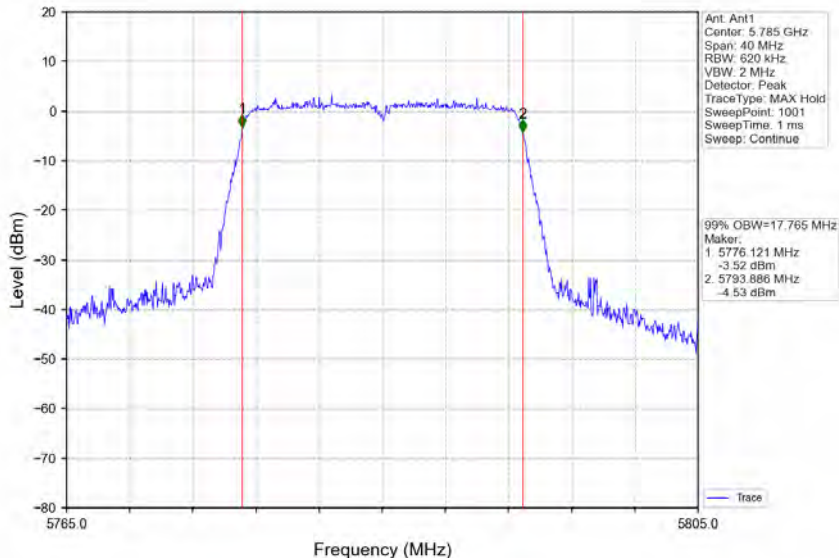
802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



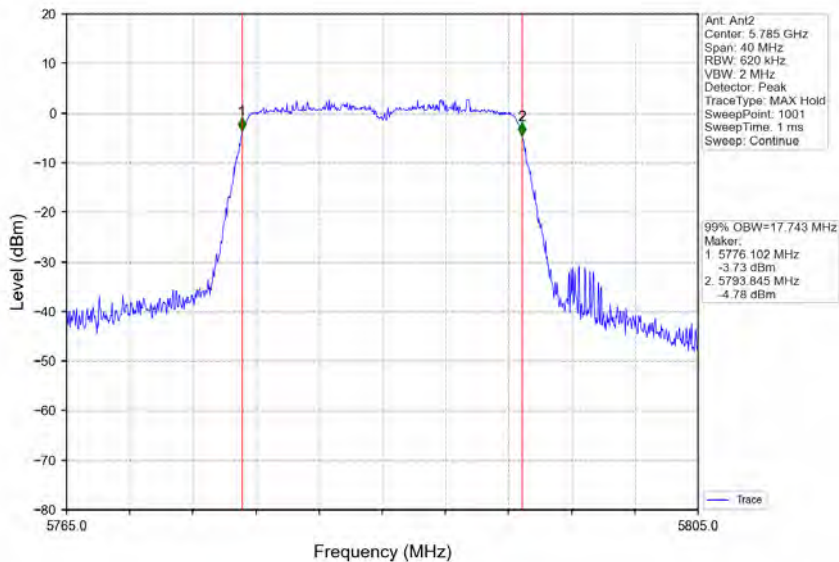
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



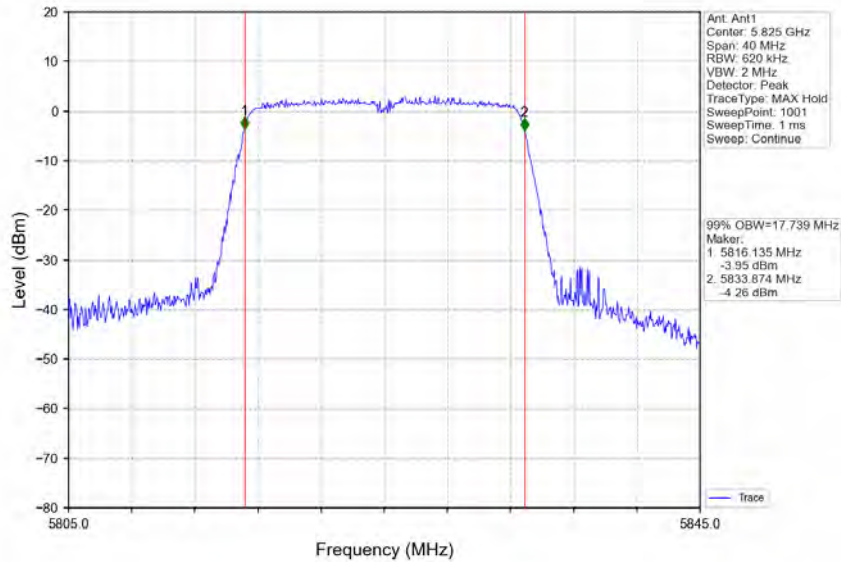
802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



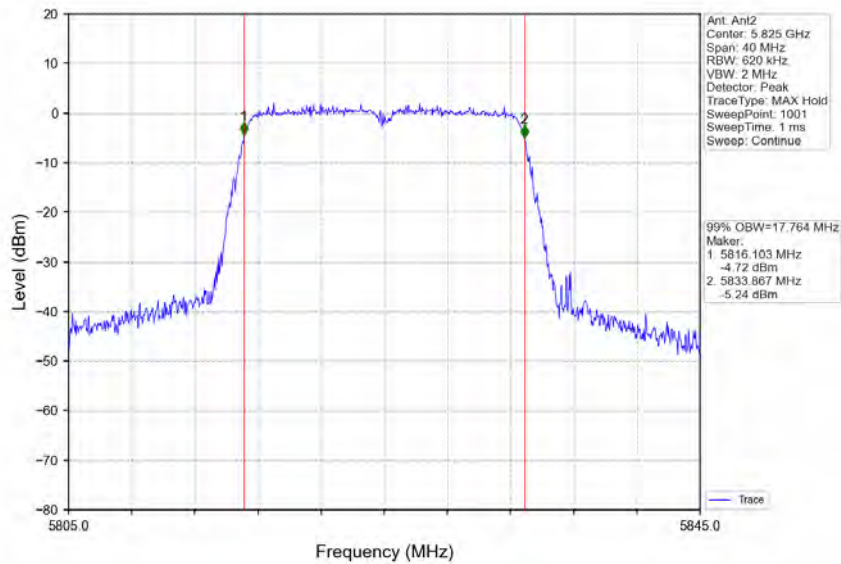
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



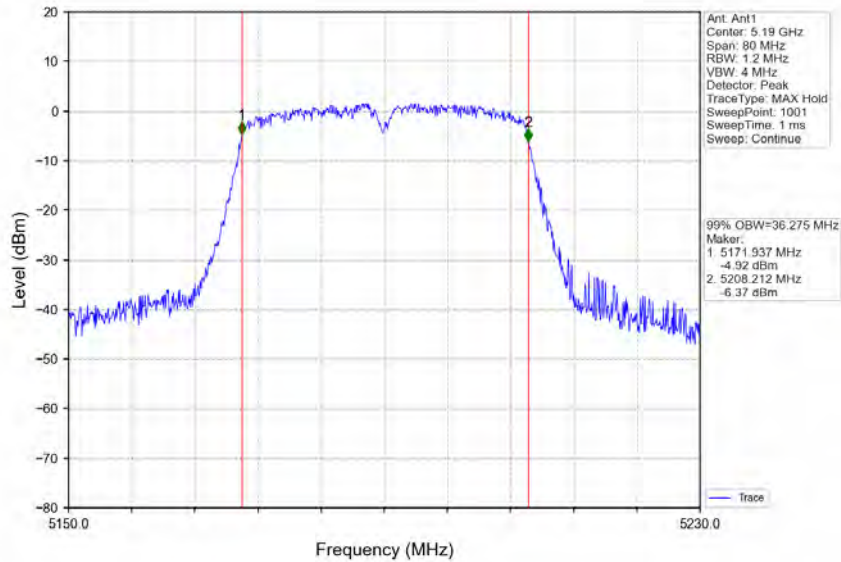
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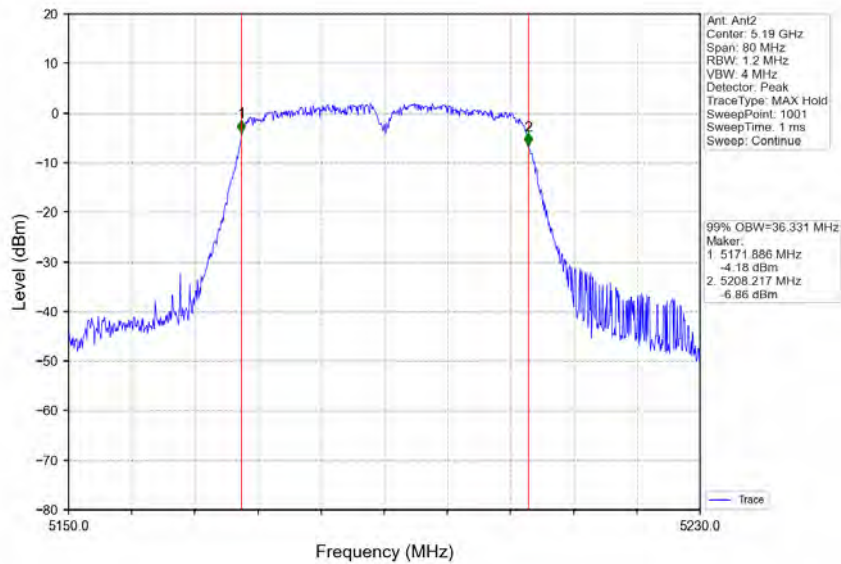
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV

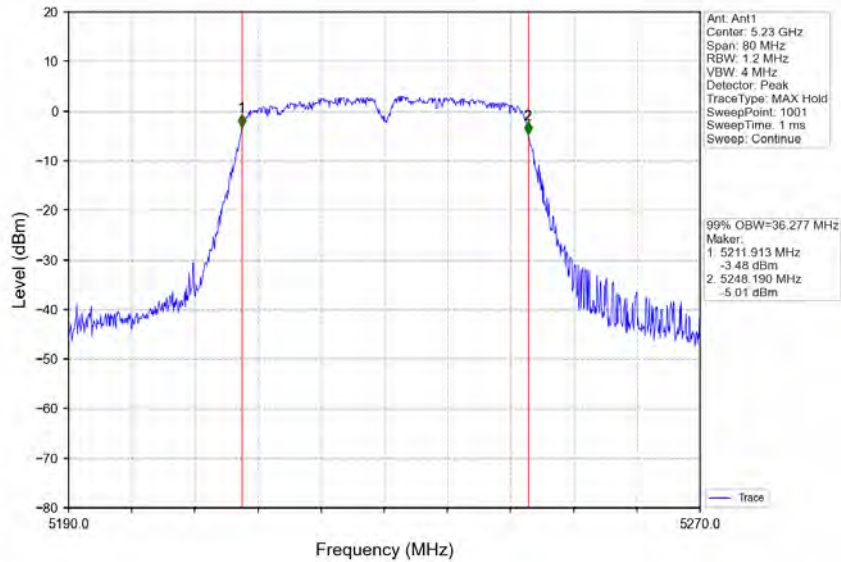


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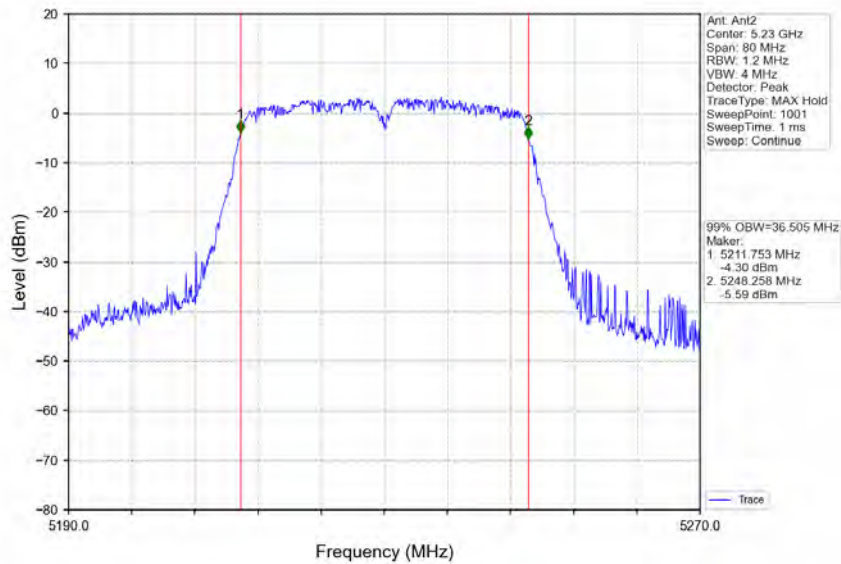
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV

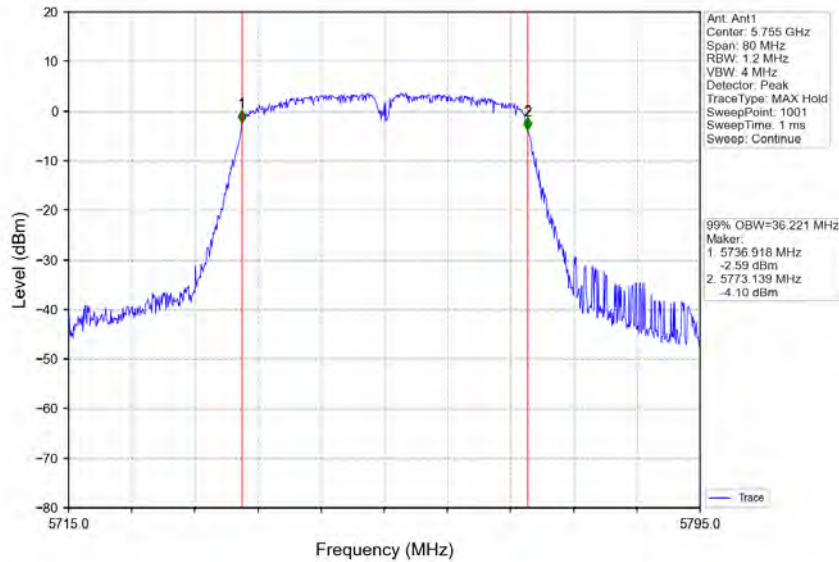


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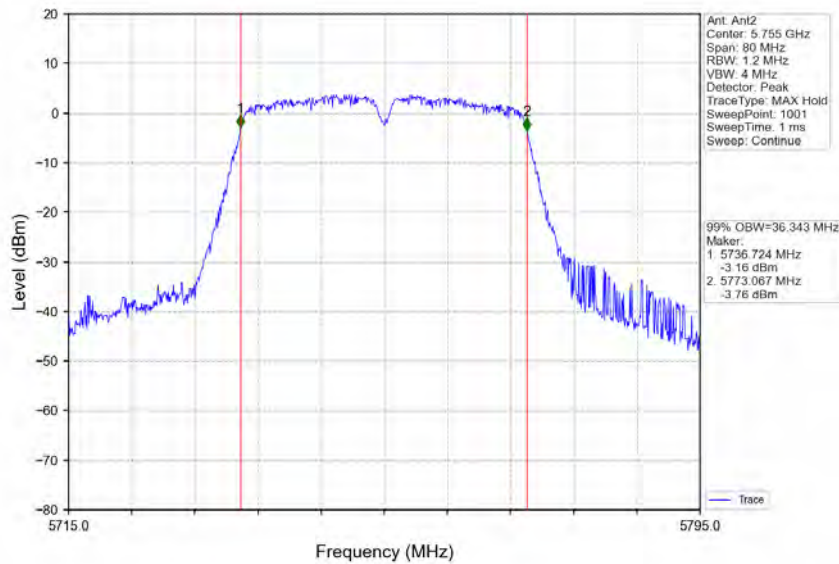
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



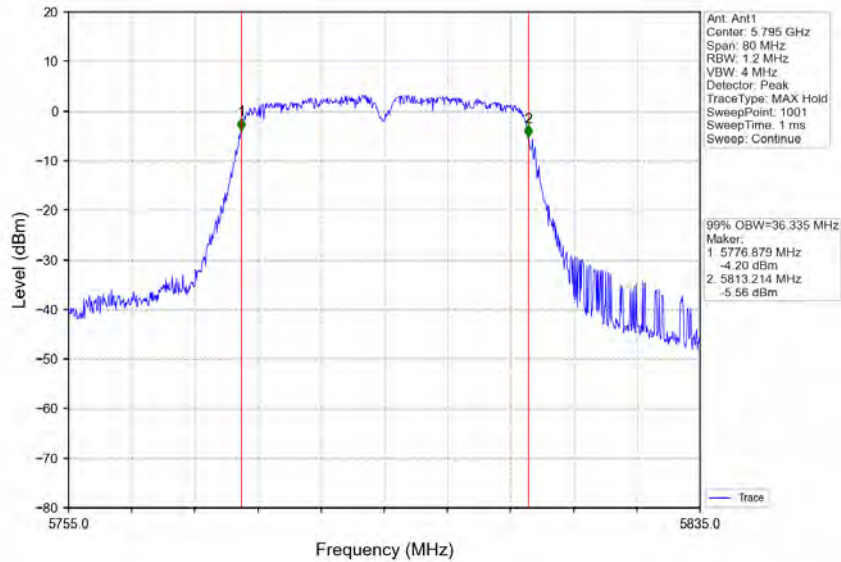
802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



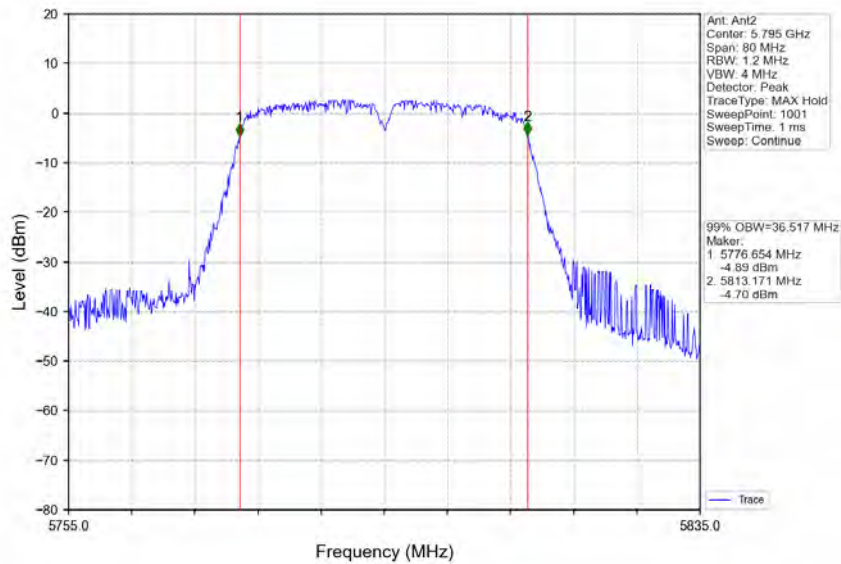
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



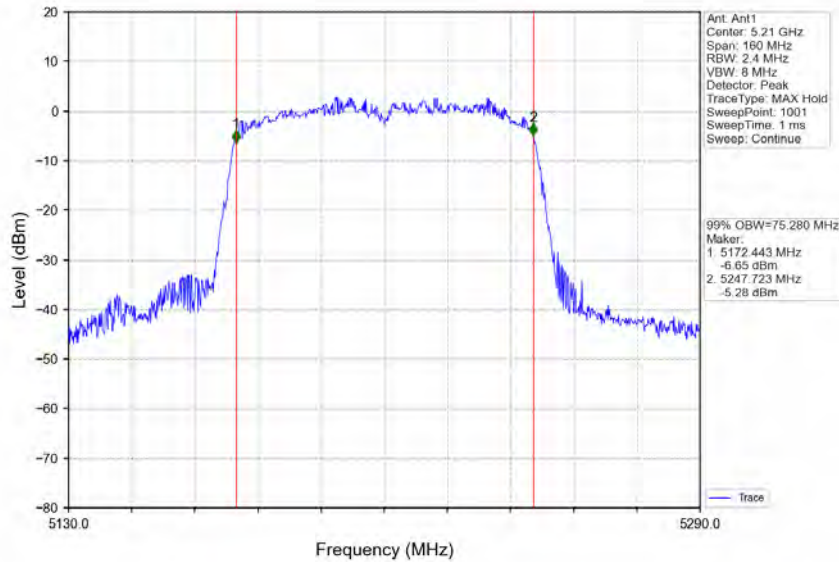
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



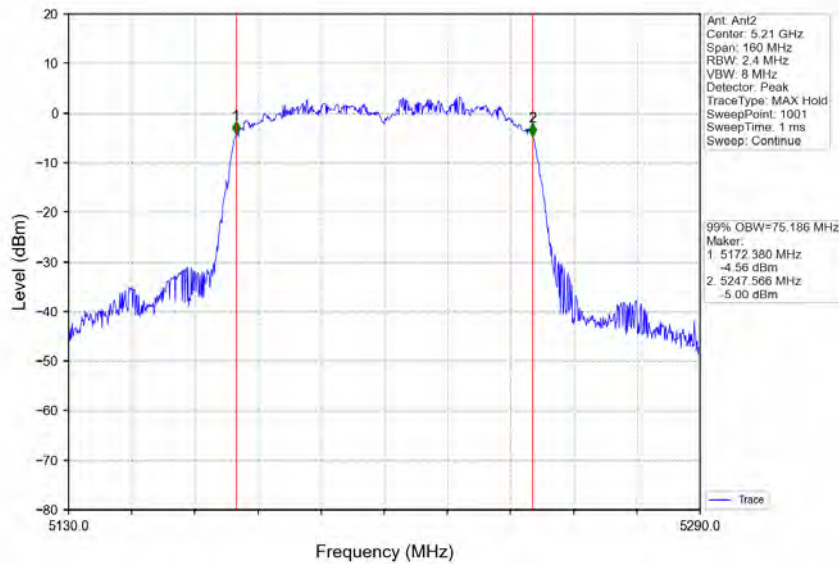
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV

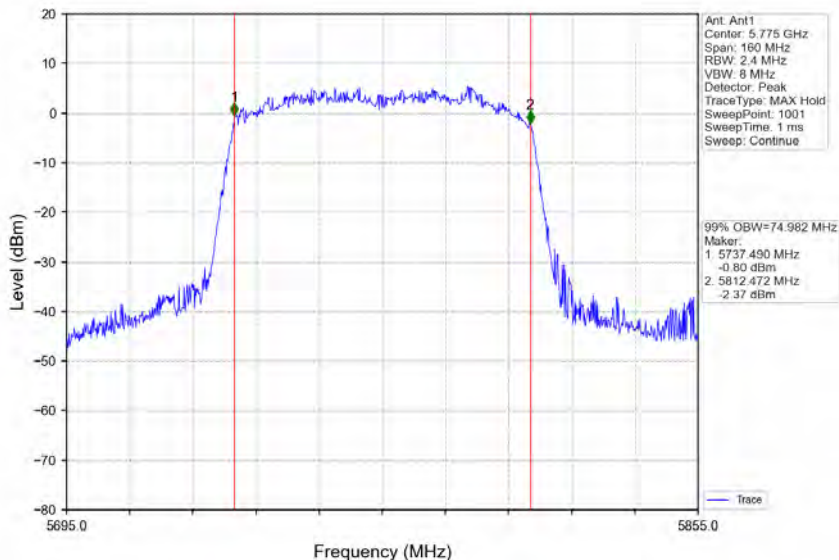


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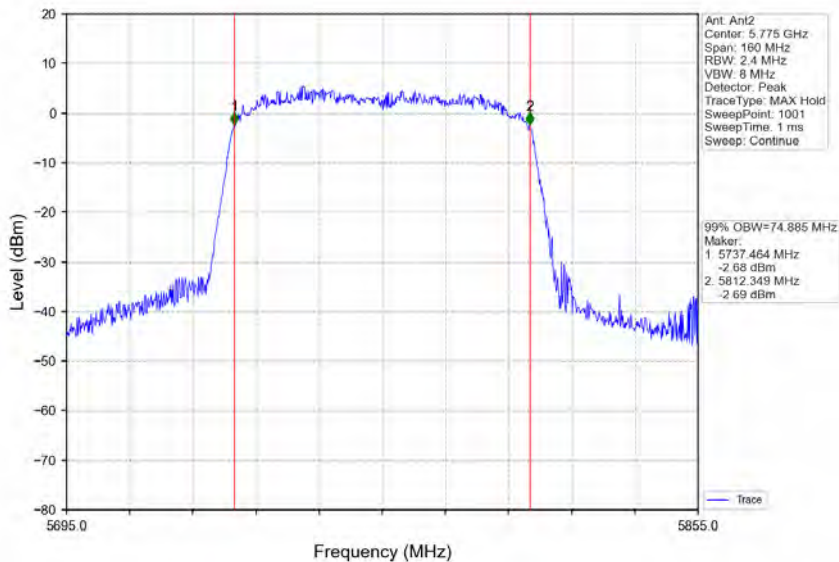
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



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## 2.2 6dB BW

### 2.2.1 Test Result

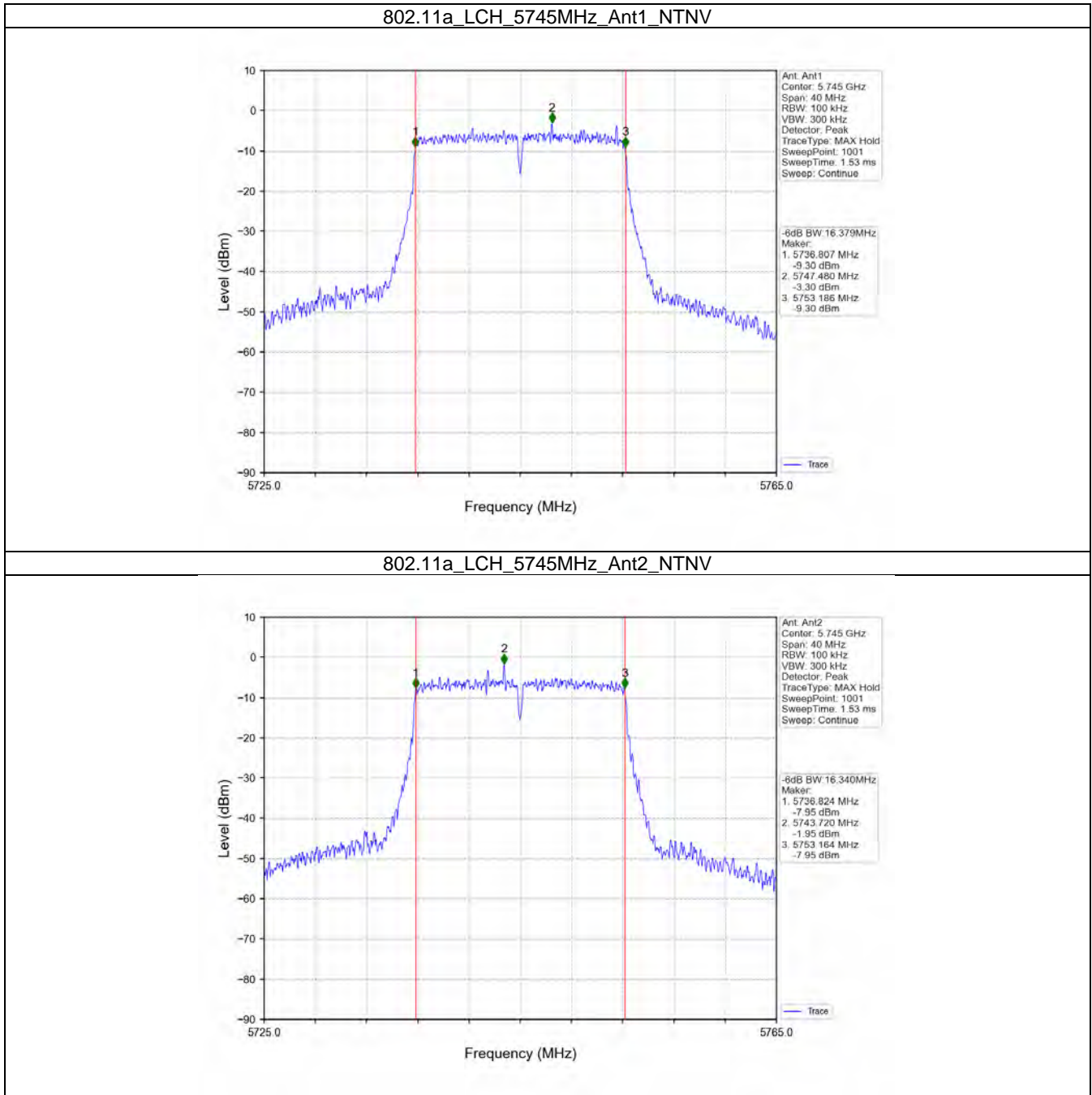
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.379	>=0.5	Pass
			2	16.340	>=0.5	Pass
		5785	1	16.352	>=0.5	Pass
			2	16.348	>=0.5	Pass
		5825	1	16.336	>=0.5	Pass
			2	16.341	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.579	>=0.5	Pass
			2	17.598	>=0.5	Pass
		5785	1	17.535	>=0.5	Pass
			2	17.561	>=0.5	Pass
		5825	1	17.549	>=0.5	Pass
			2	17.561	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	33.948	>=0.5	Pass
			2	35.085	>=0.5	Pass
		5795	1	35.163	>=0.5	Pass
			2	35.124	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.539	>=0.5	Pass
			2	17.595	>=0.5	Pass
		5785	1	17.548	>=0.5	Pass
			2	17.603	>=0.5	Pass
		5825	1	17.542	>=0.5	Pass
			2	17.562	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	35.169	>=0.5	Pass
			2	34.101	>=0.5	Pass
		5795	1	34.112	>=0.5	Pass
			2	35.180	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.074	>=0.5	Pass
			2	72.629	>=0.5	Pass



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2.2.2 Test Graph

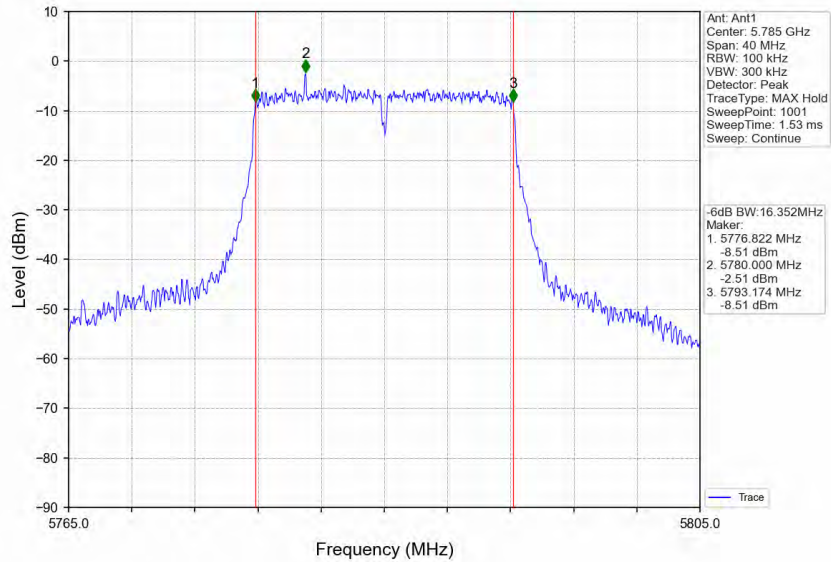


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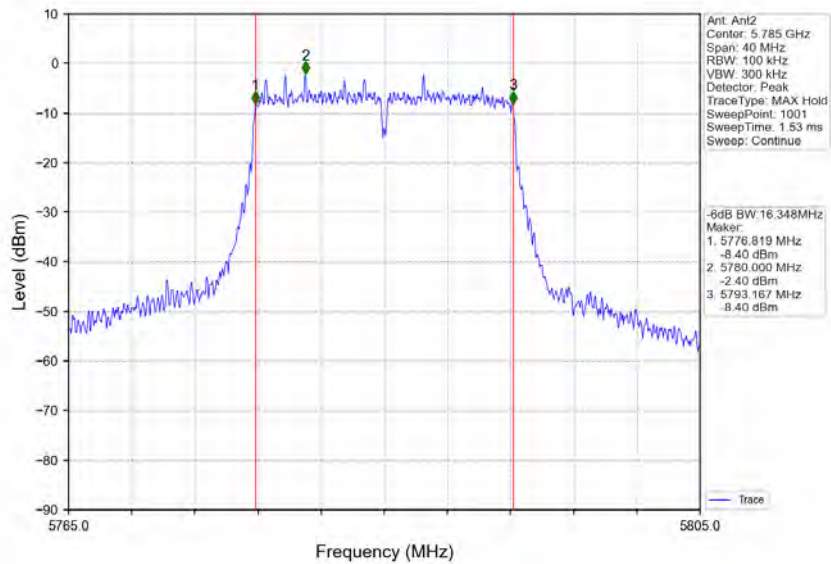
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



802.11a\_MCH\_5785MHz\_Ant2\_NTNV



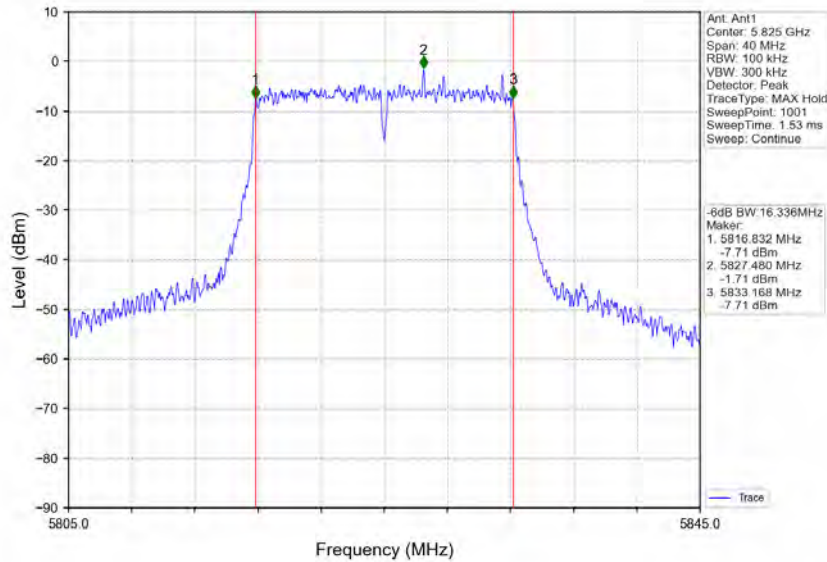
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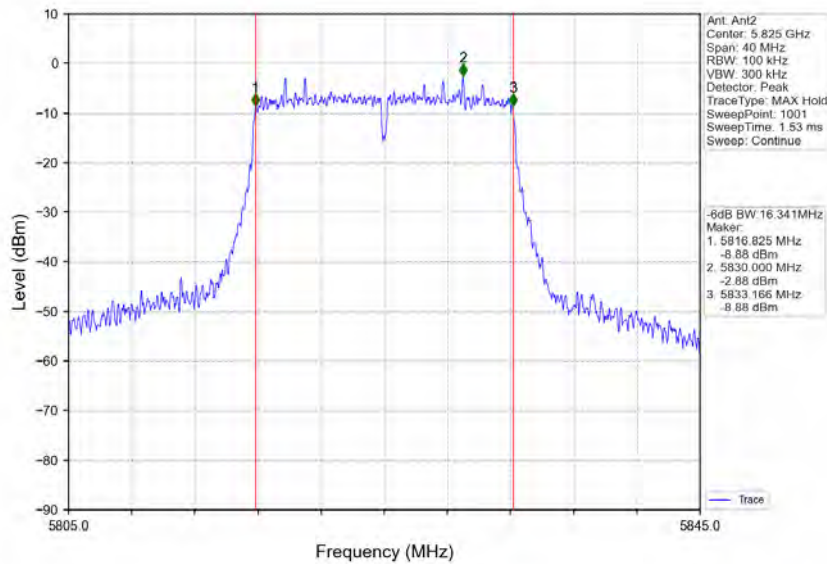
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



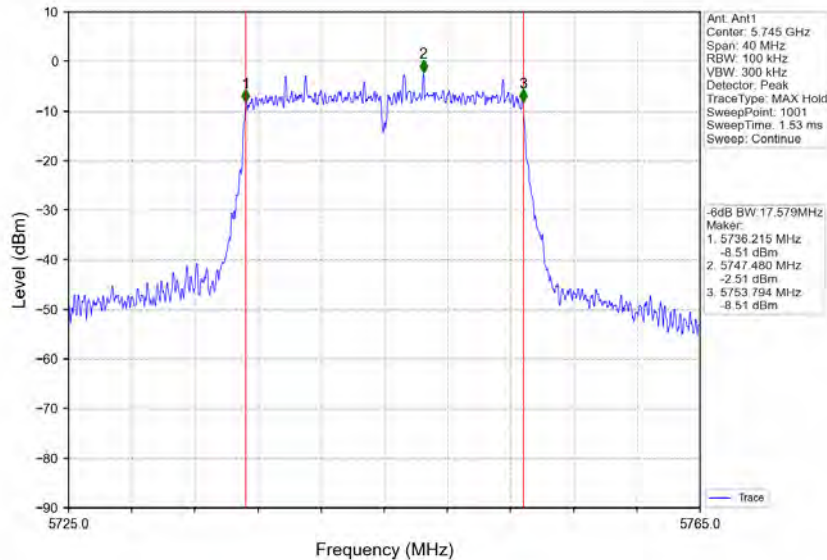
802.11a\_HCH\_5825MHz\_Ant2\_NTNV



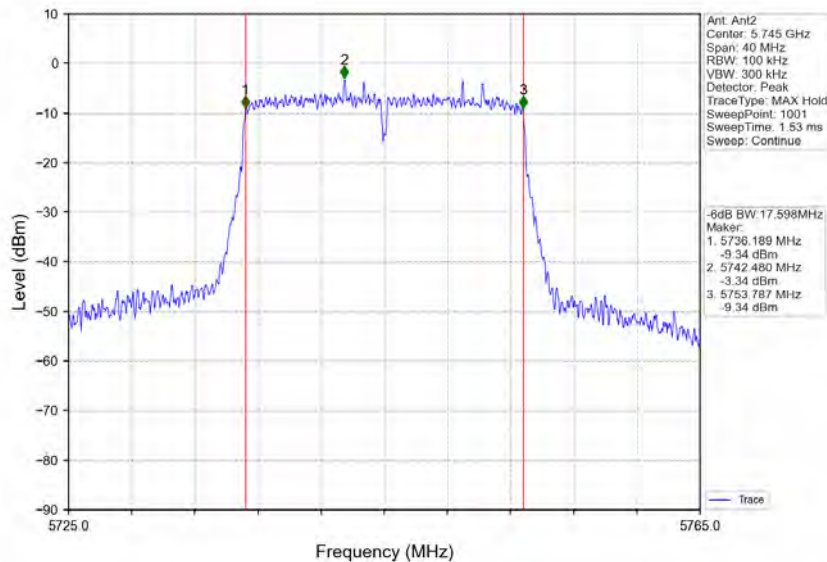
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV

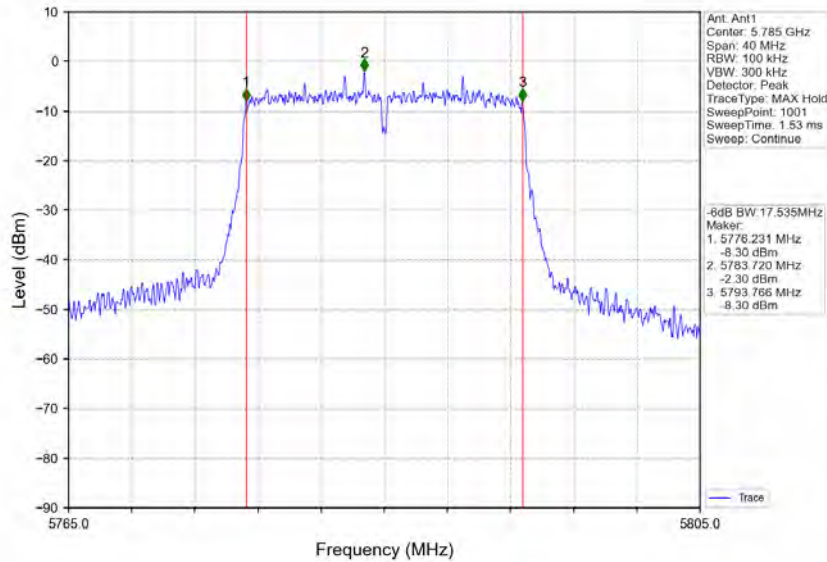


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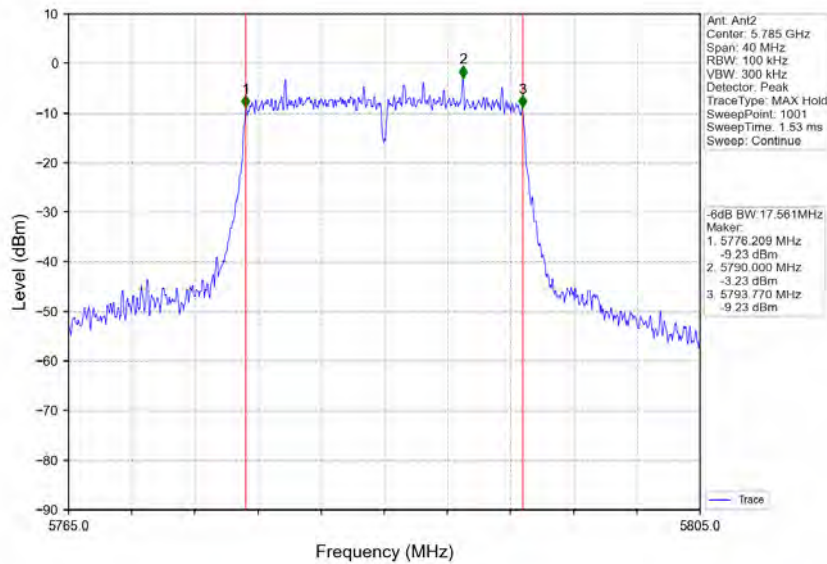
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



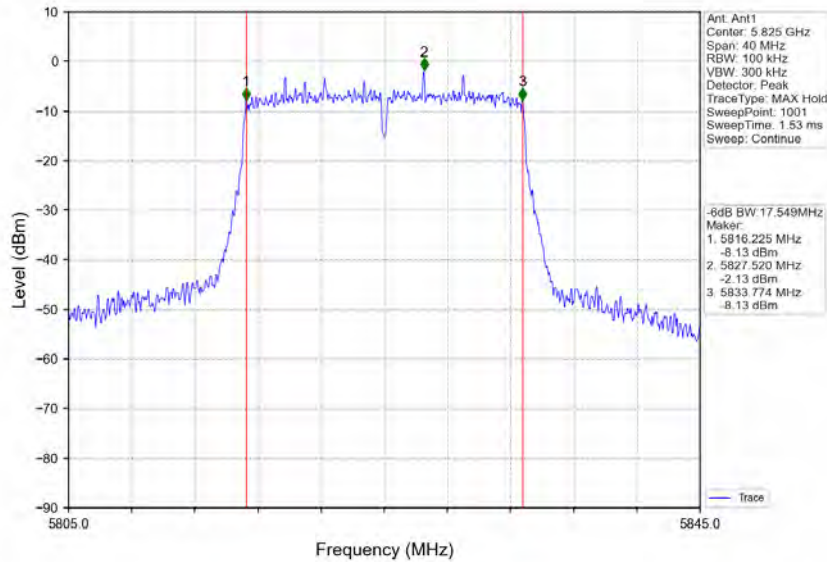
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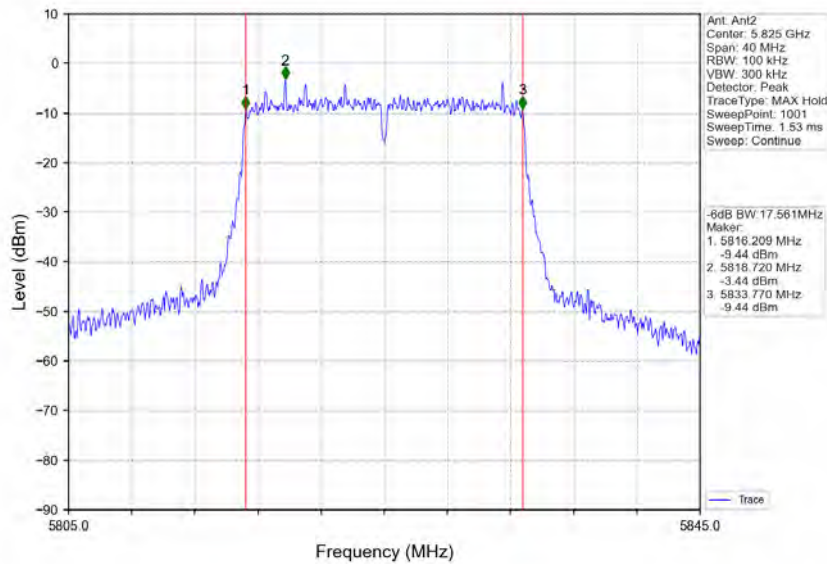
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



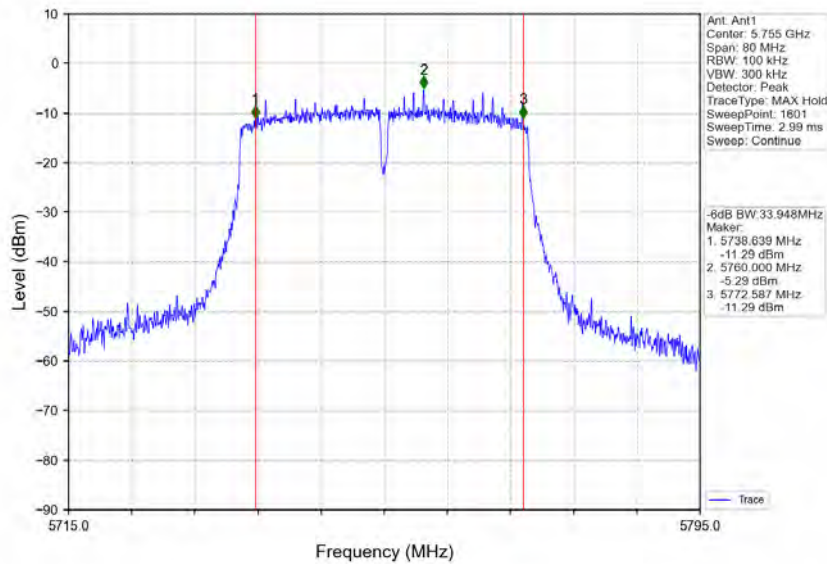
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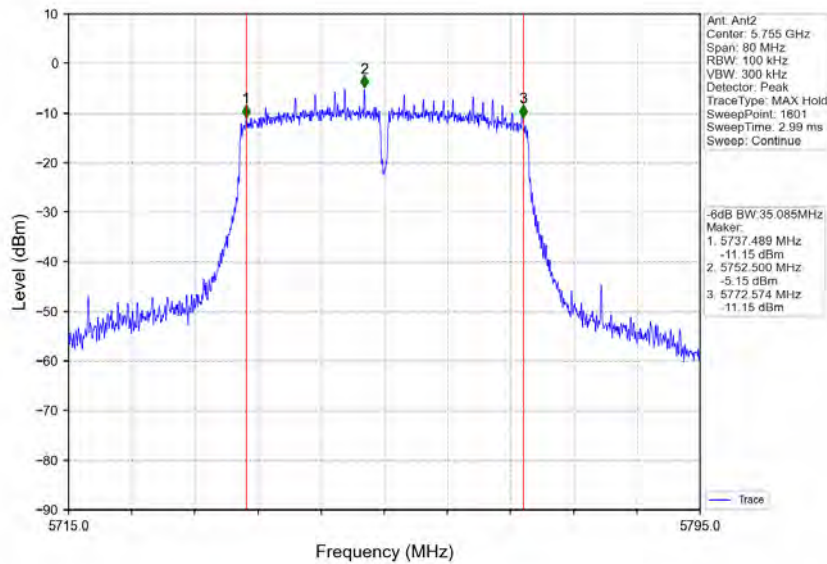
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant2\_NTNV



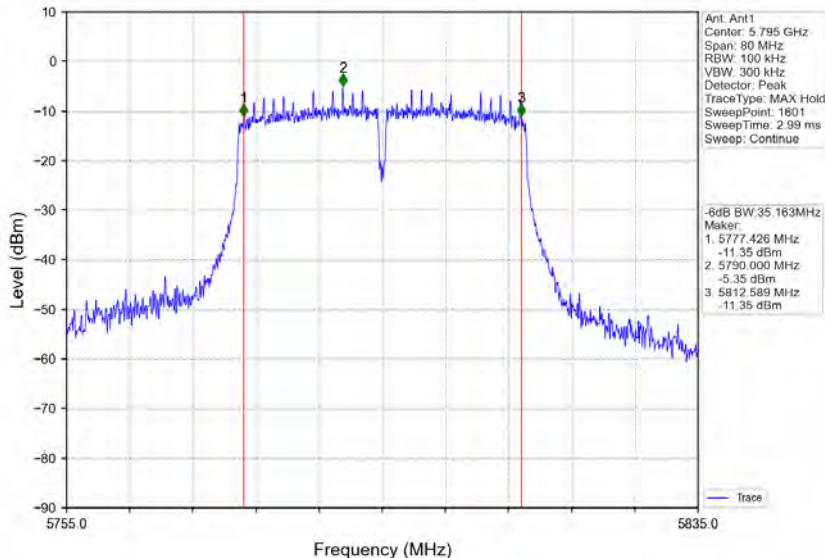
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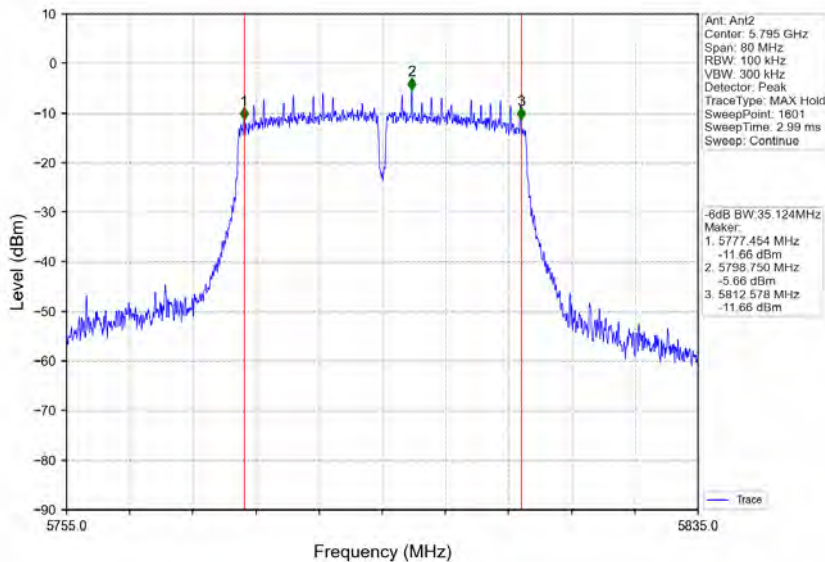
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



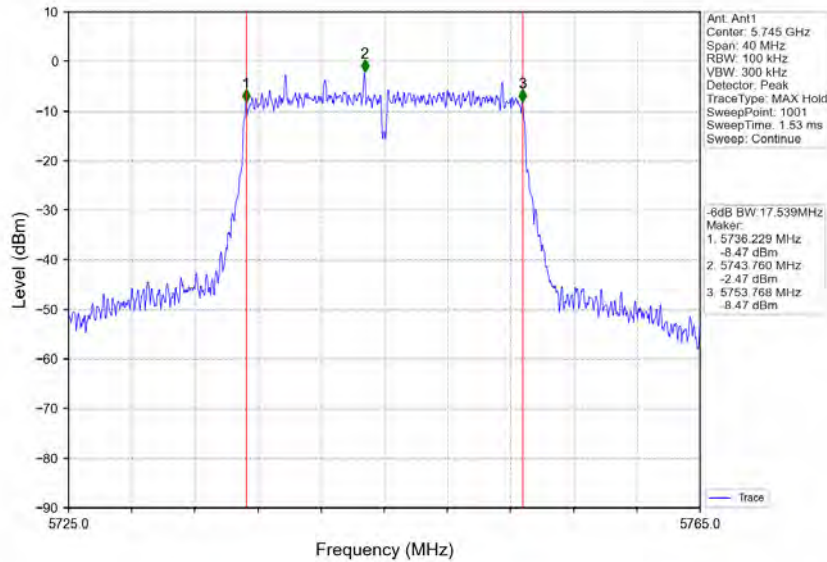
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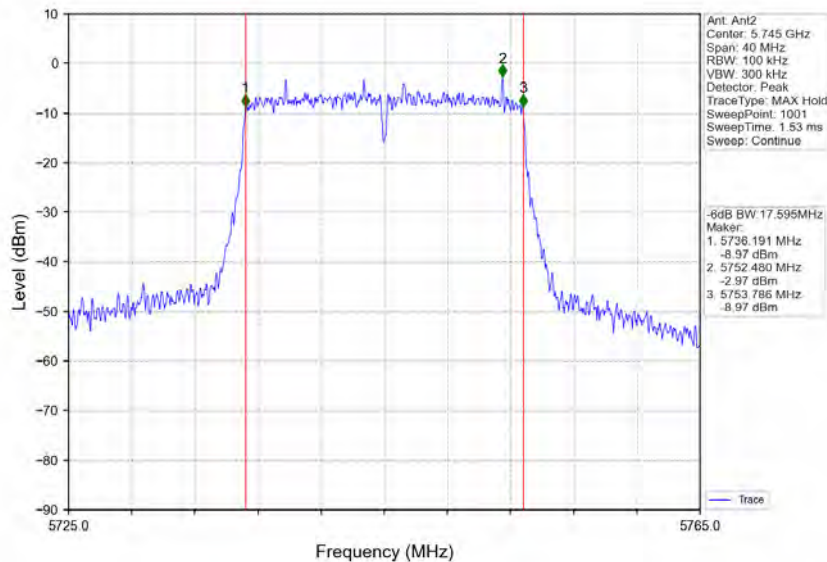
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



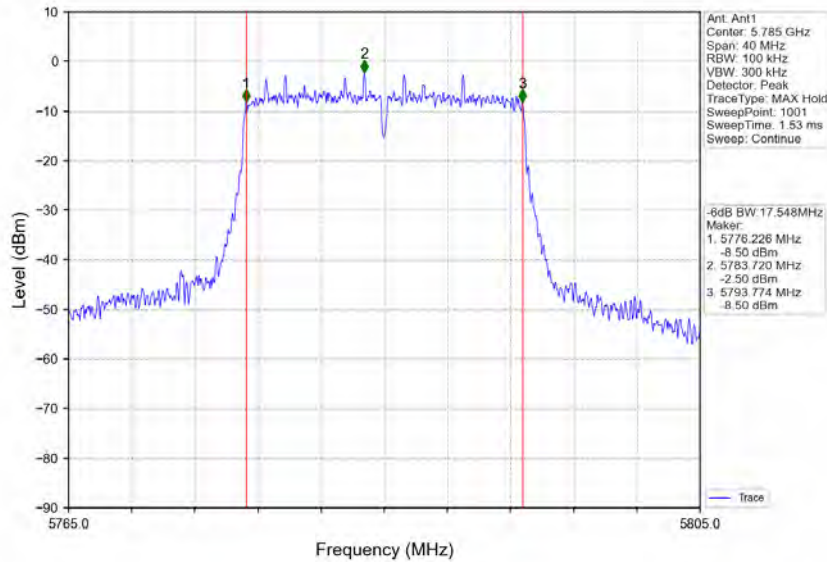
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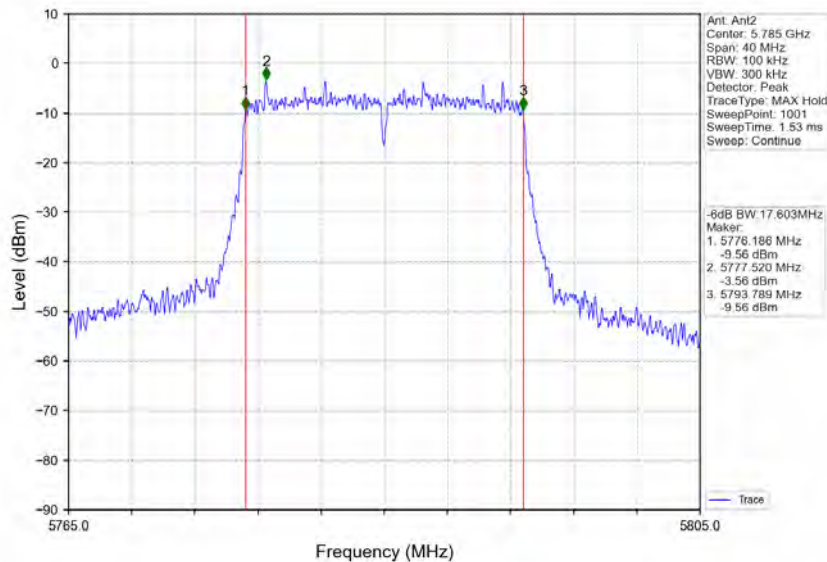
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV

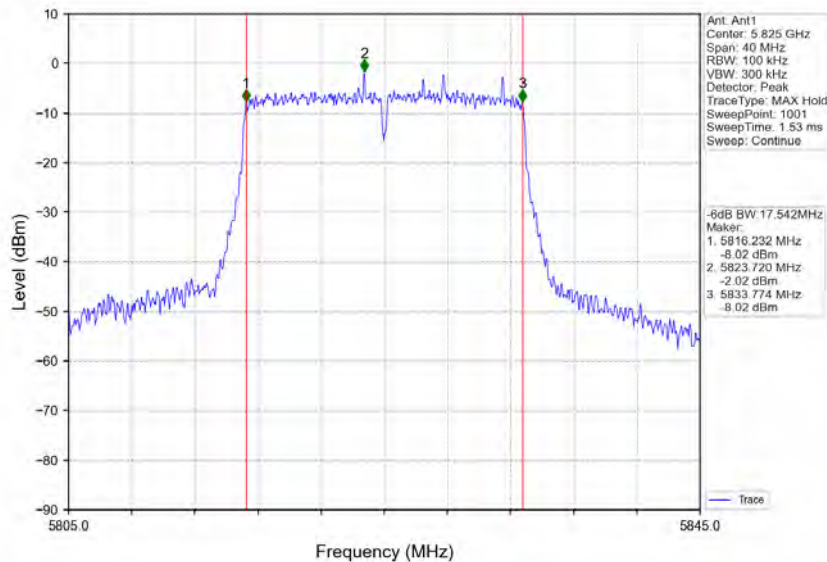


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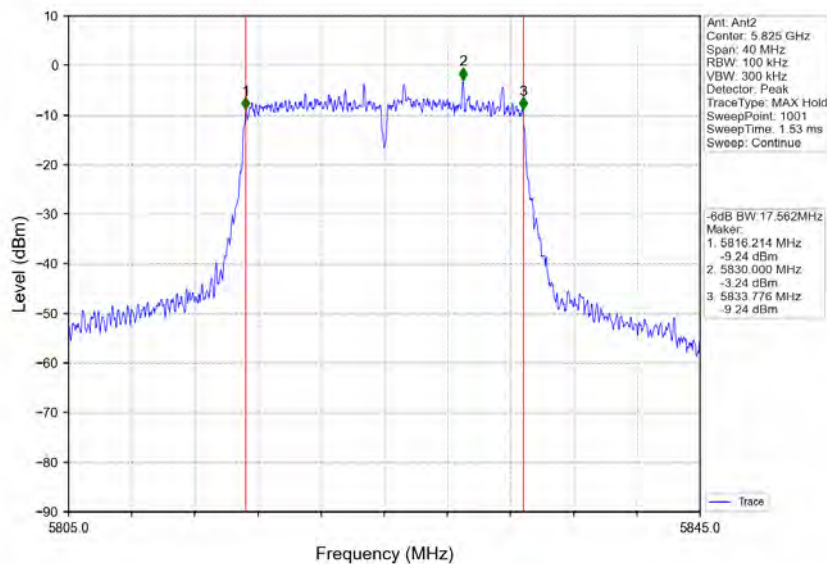
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



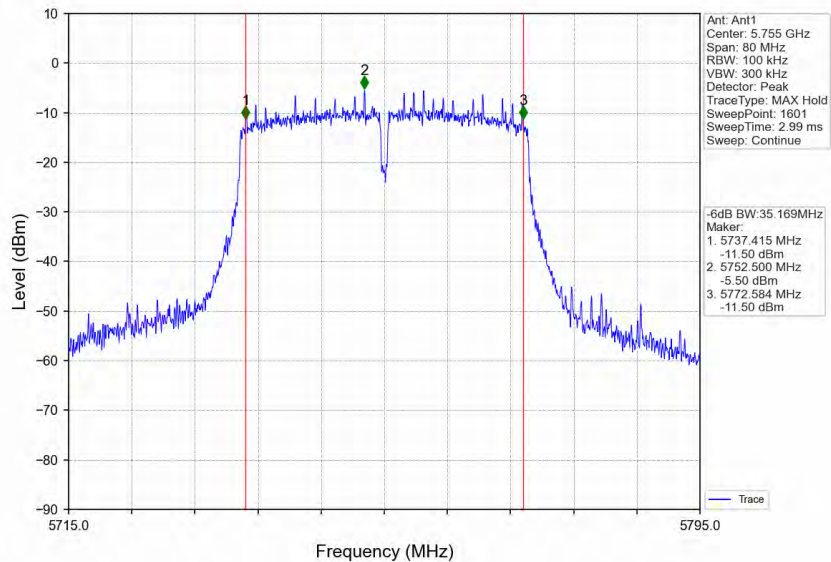
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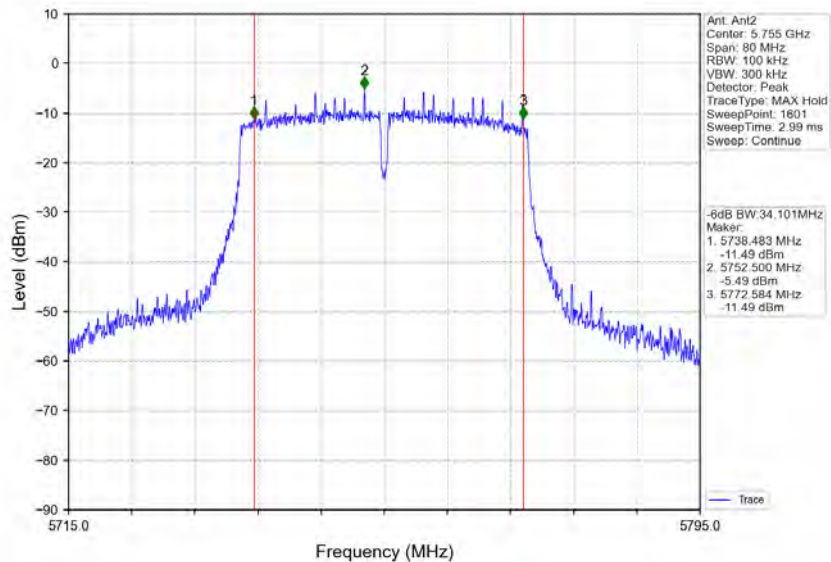
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



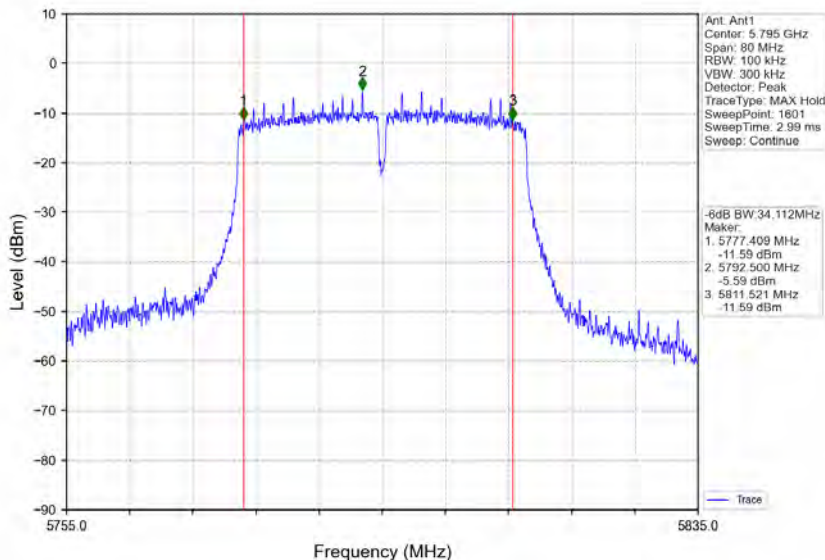
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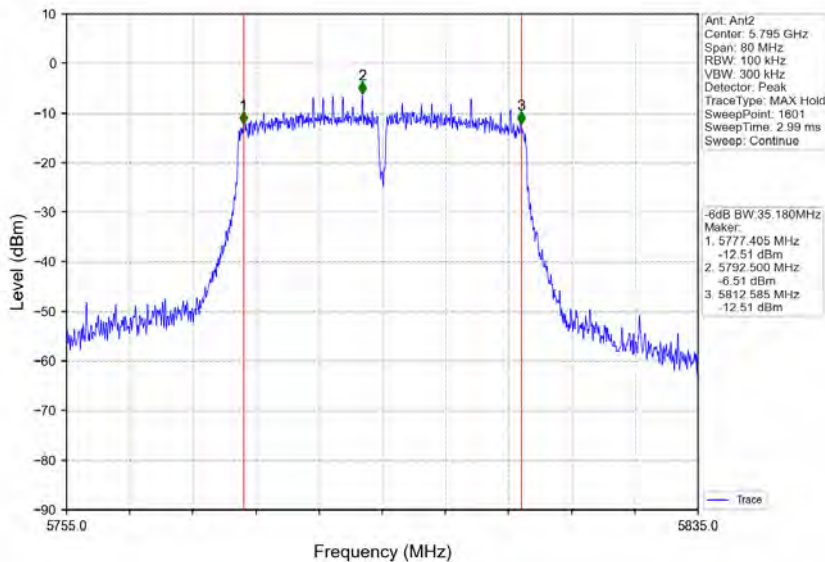
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



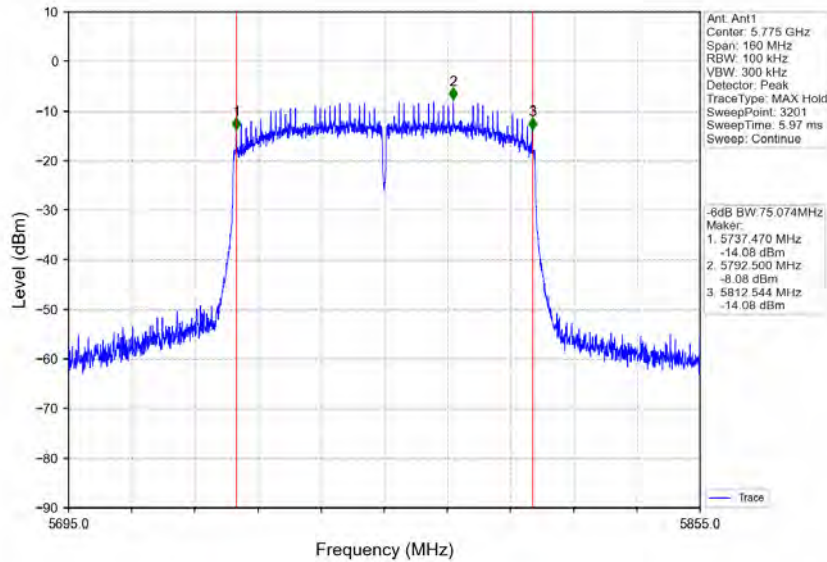
802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



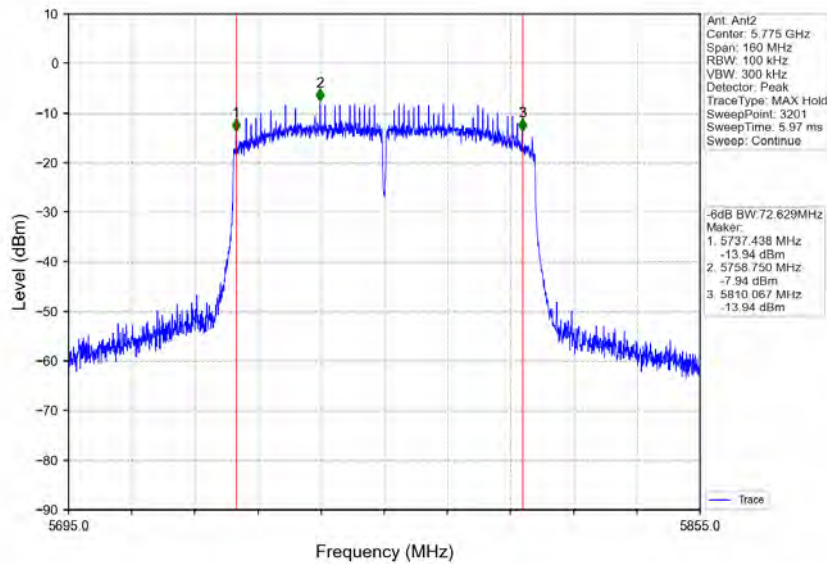
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_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	19.482	Pass
			2	19.340	Pass
		5200	1	19.395	Pass
			2	19.432	Pass
		5240	1	19.503	Pass
			2	19.344	Pass
802.11n (HT20)	MIMO	5180	1	20.137	Pass
			2	20.235	Pass
		5200	1	20.303	Pass
			2	19.992	Pass
		5240	1	20.151	Pass
			2	20.126	Pass
802.11n (HT40)	MIMO	5190	1	42.657	Pass
			2	42.335	Pass
		5230	1	42.973	Pass
			2	42.916	Pass
802.11ac (VHT20)	MIMO	5180	1	20.198	Pass
			2	20.181	Pass
		5200	1	20.147	Pass
			2	20.253	Pass
		5240	1	20.164	Pass
			2	20.235	Pass
802.11ac (VHT40)	MIMO	5190	1	42.280	Pass
			2	42.284	Pass
		5230	1	42.276	Pass
			2	42.674	Pass
802.11ac (VHT80)	MIMO	5210	1	83.123	Pass
			2	83.093	Pass



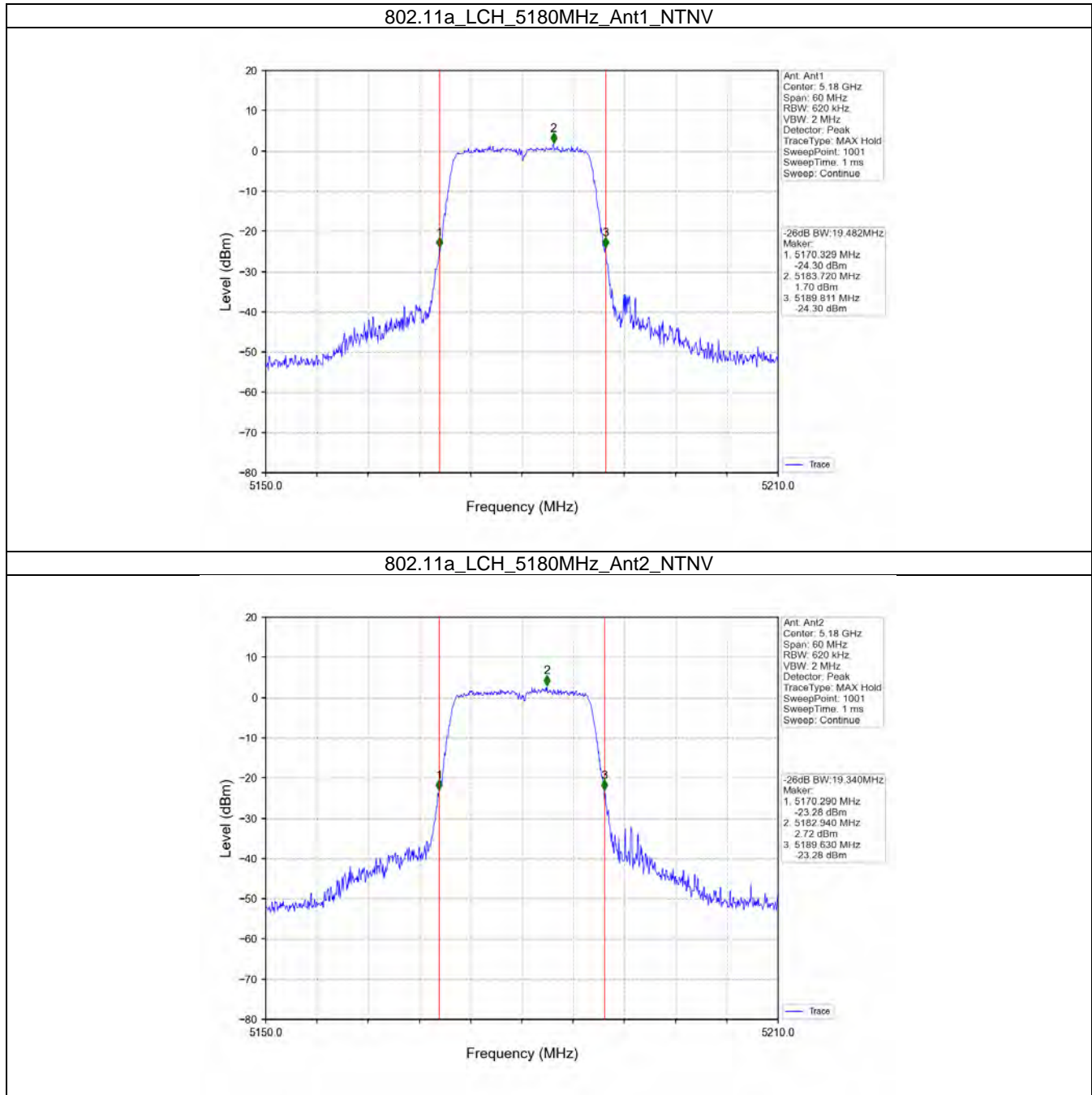
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2.3.2 Test Graph



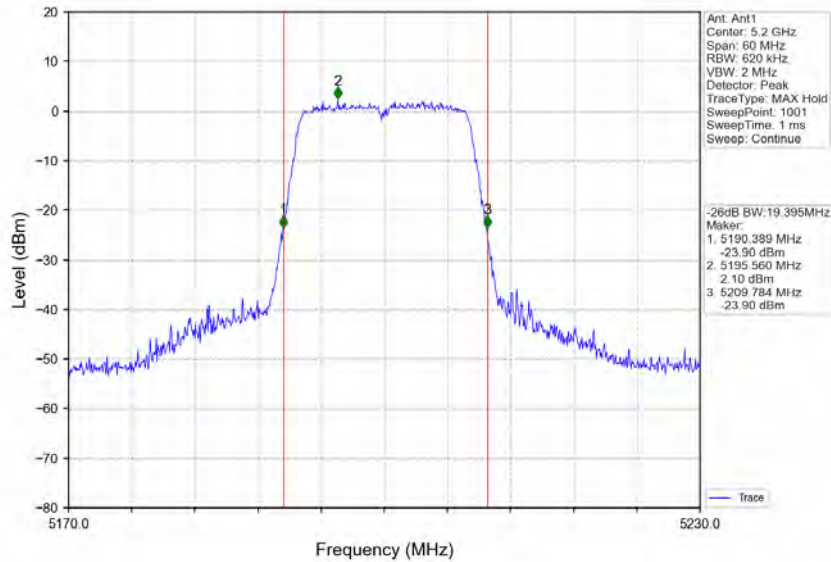
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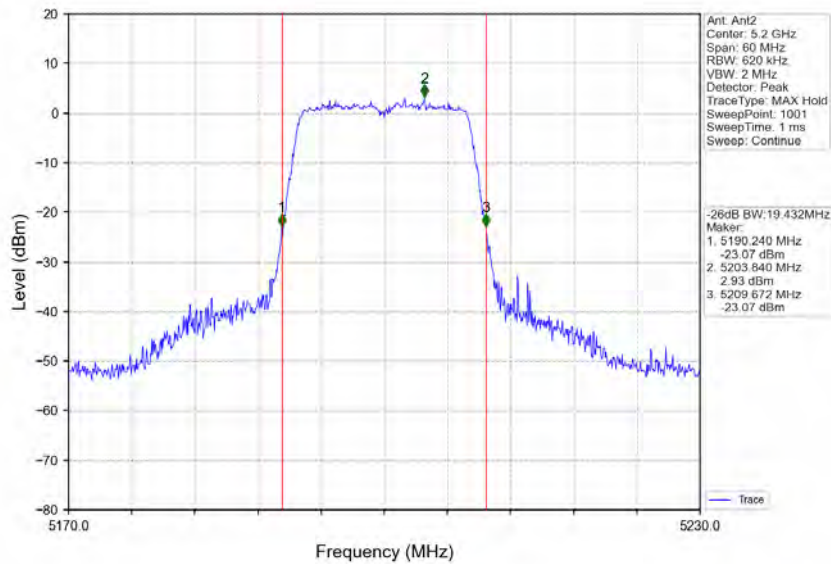
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



802.11a\_MCH\_5200MHz\_Ant2\_NTNV



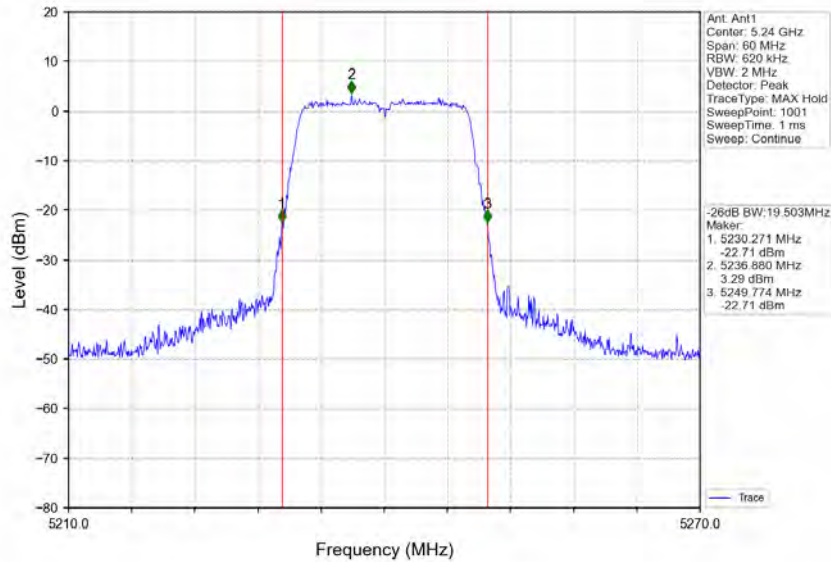
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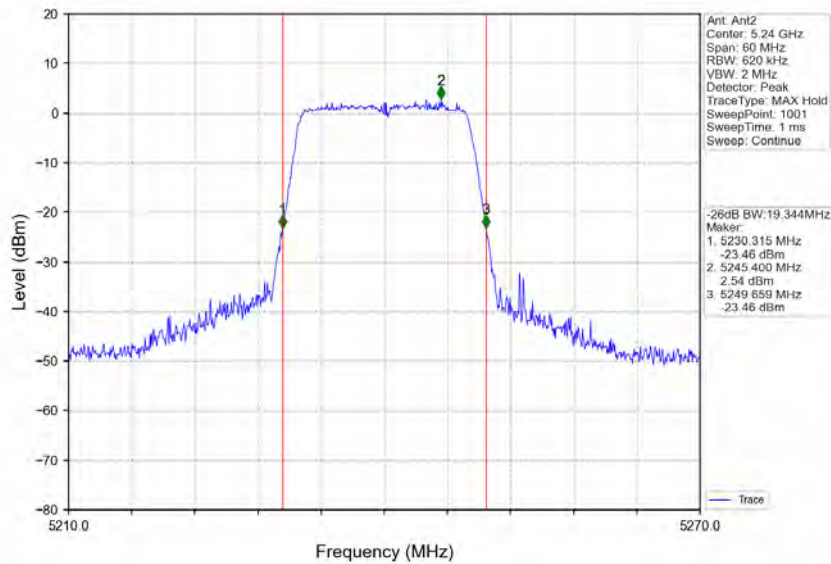
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV



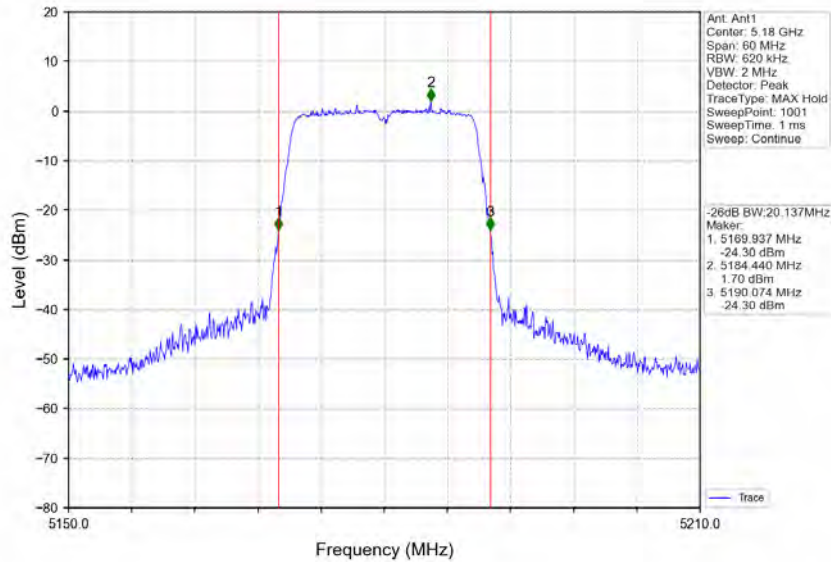
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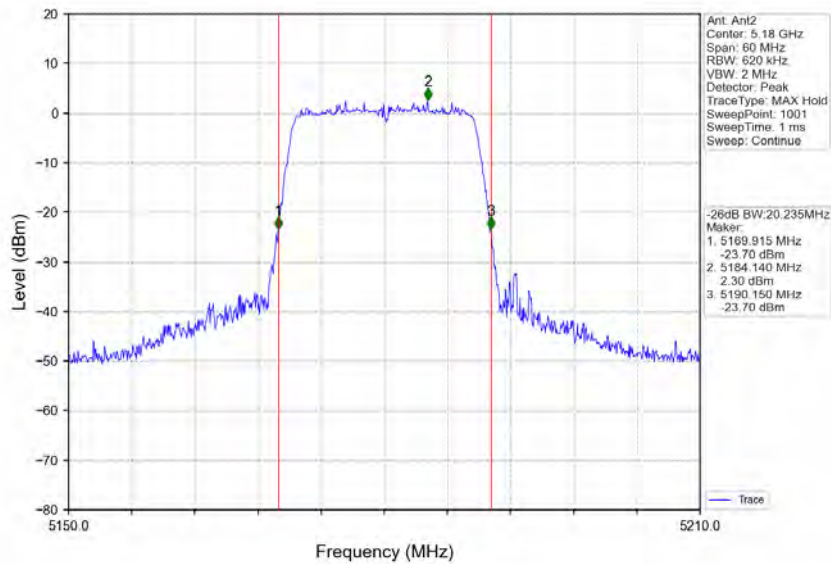
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



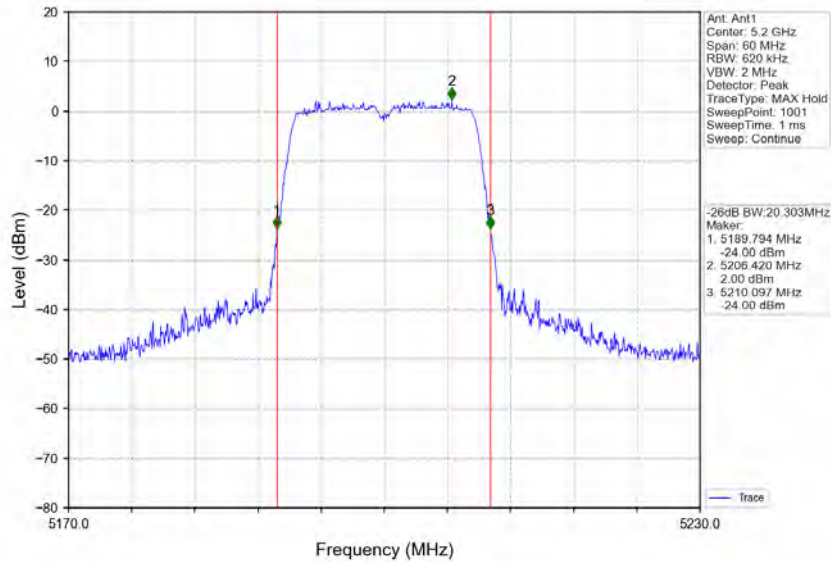
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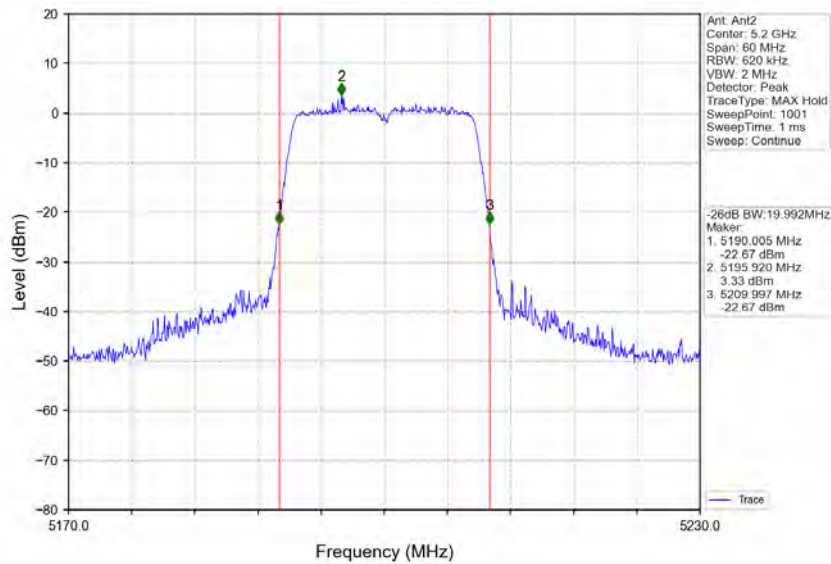
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



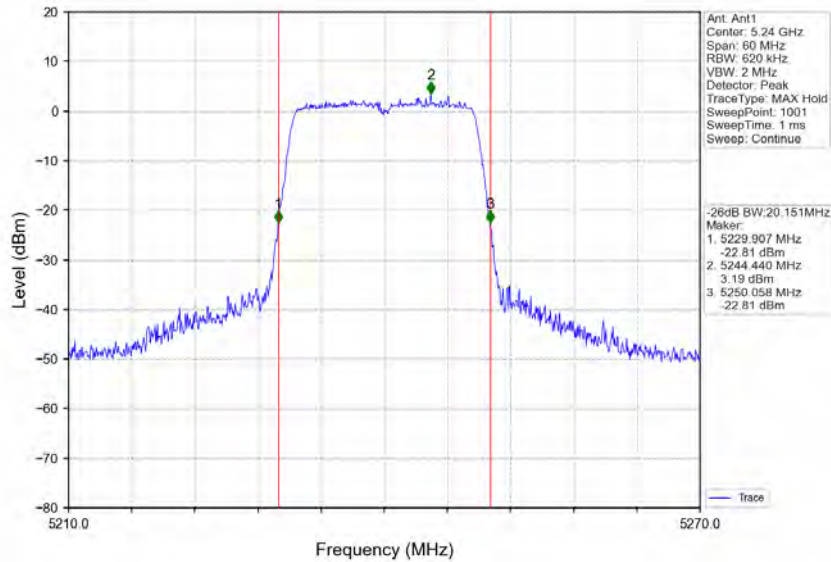
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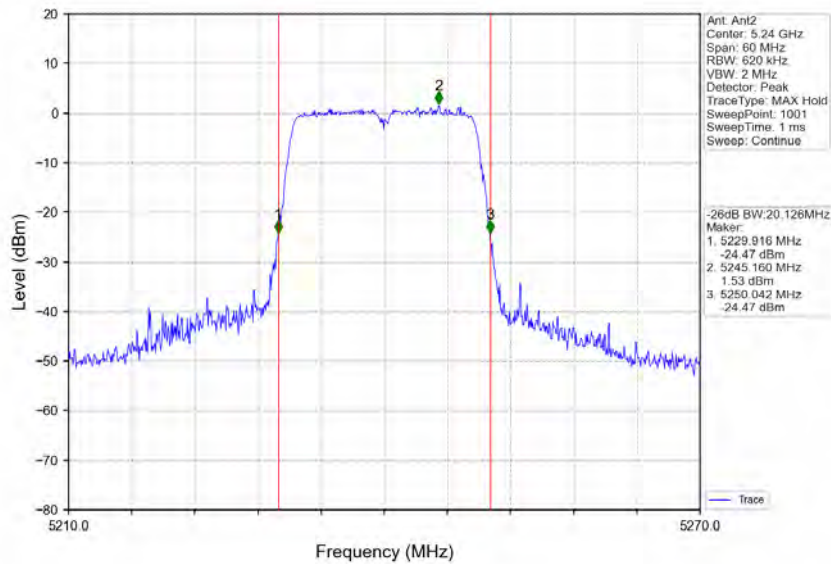
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



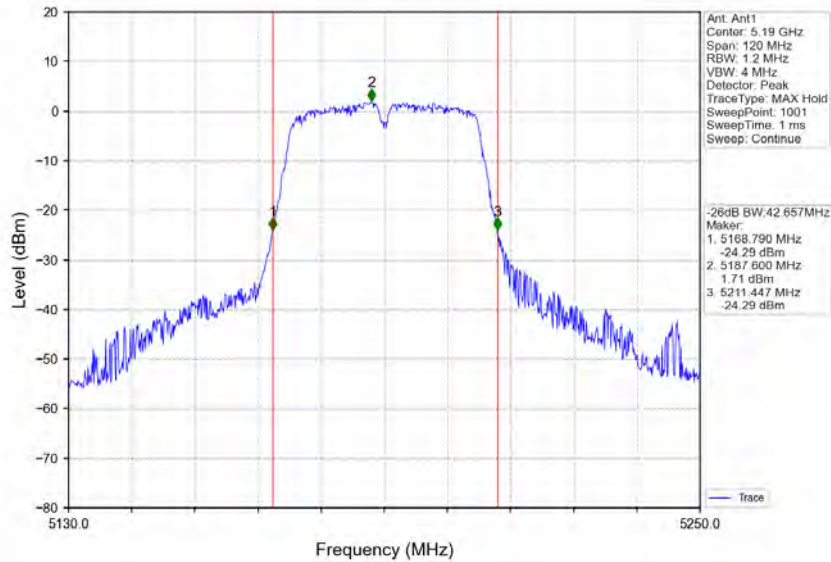
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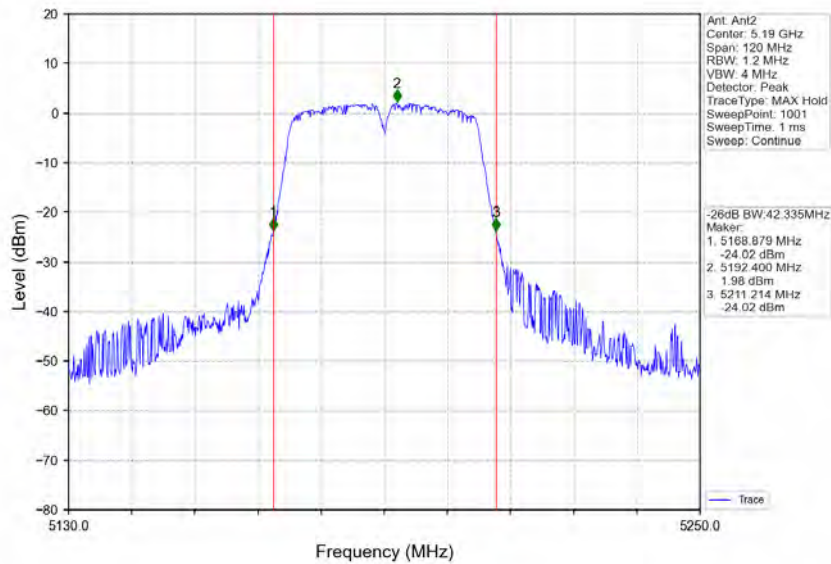
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



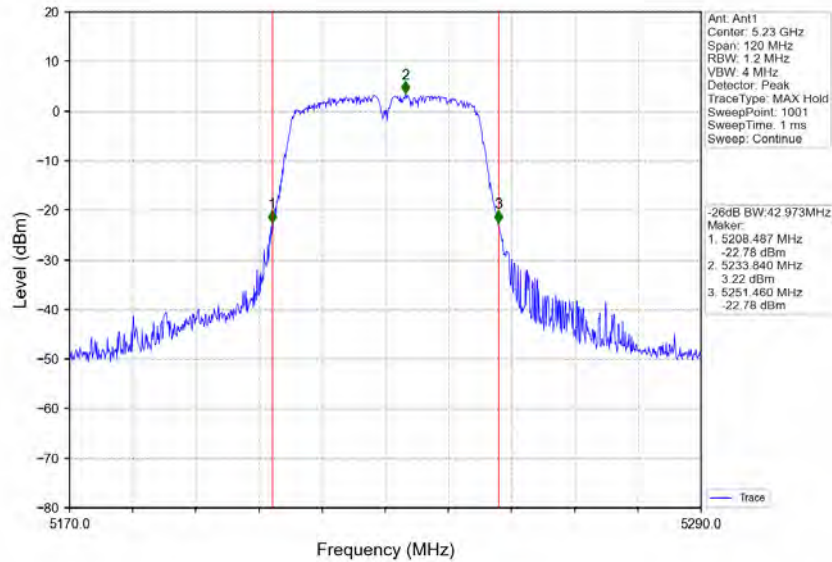
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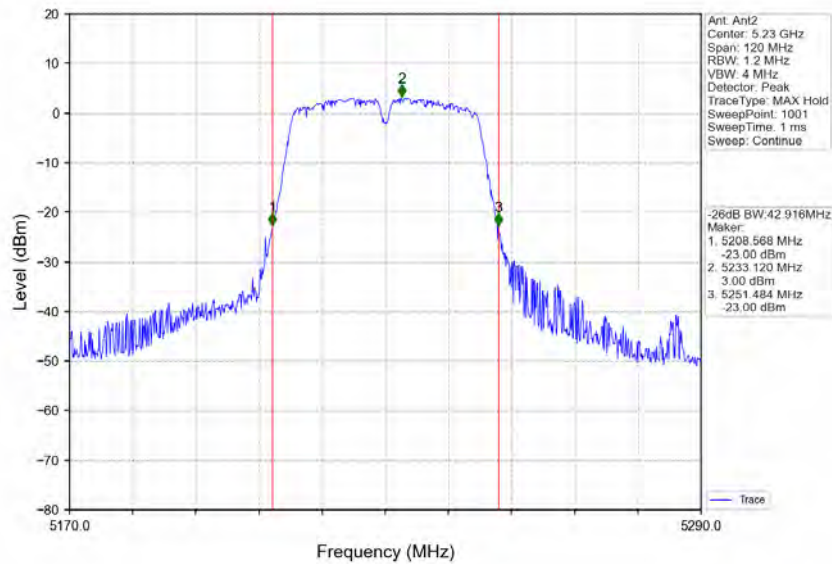
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802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



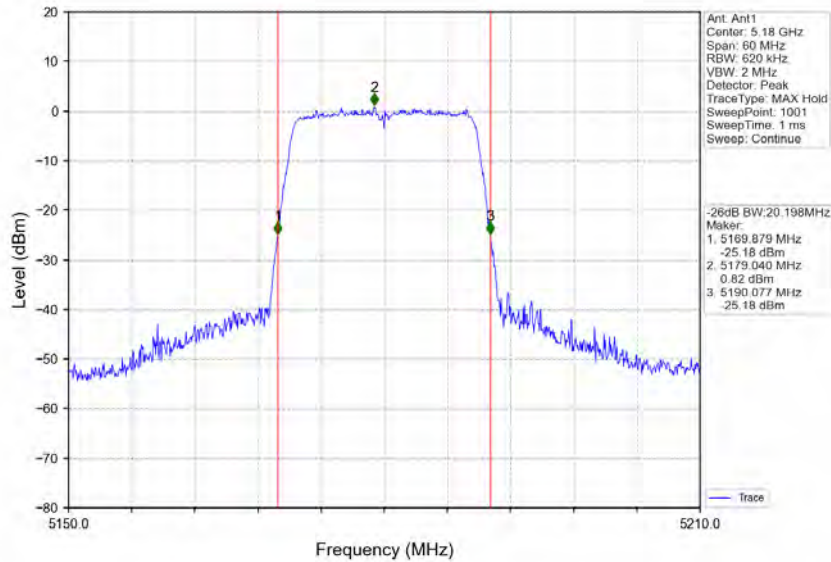
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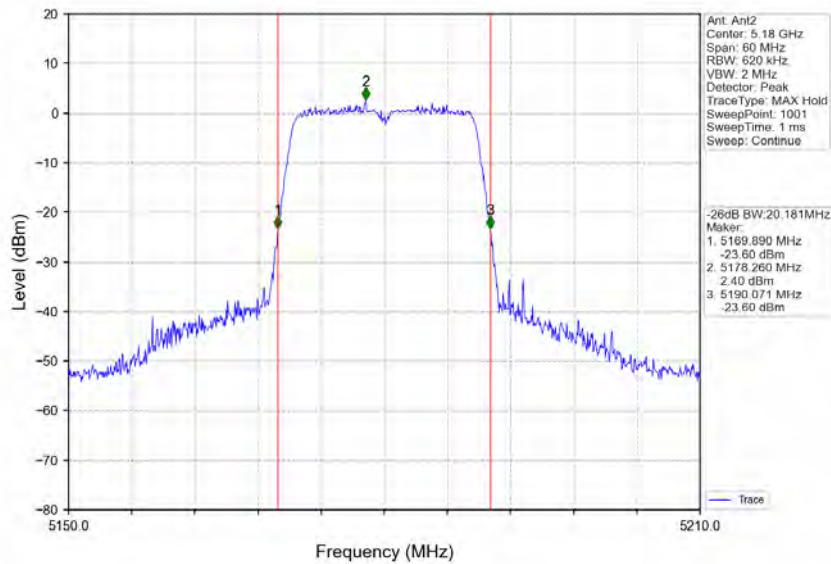
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



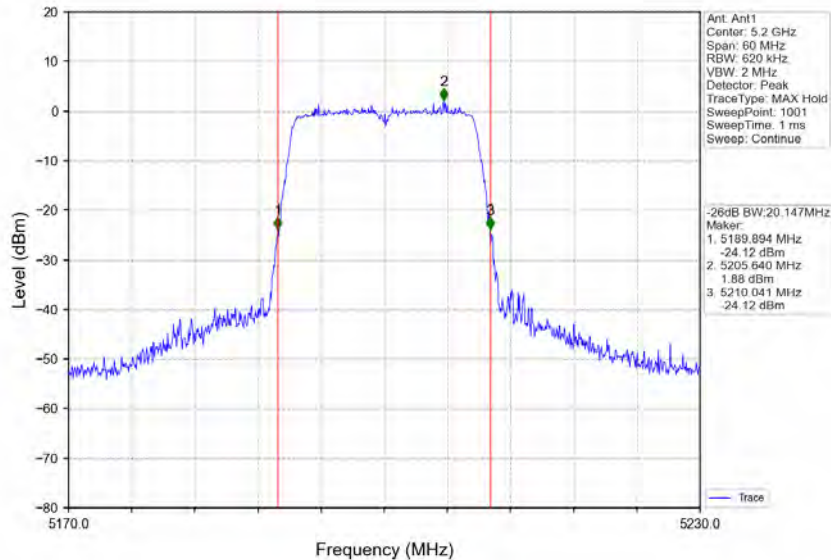
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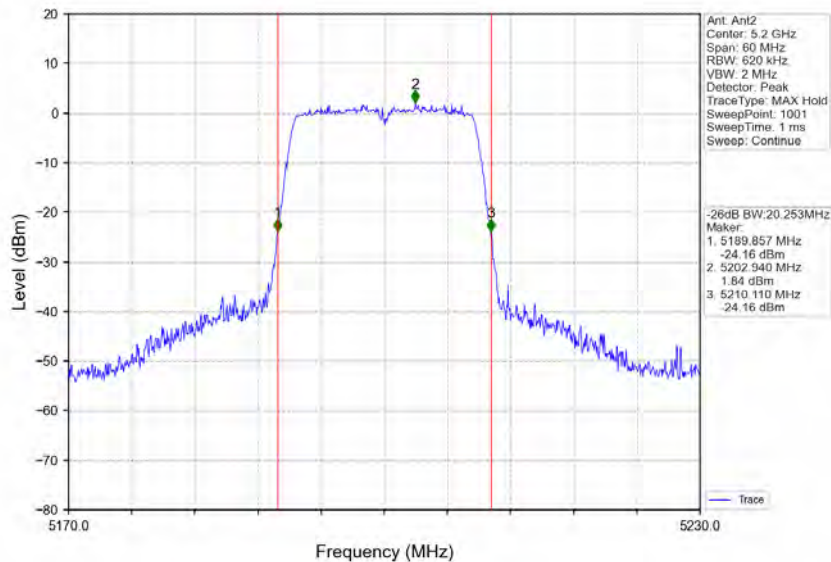
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



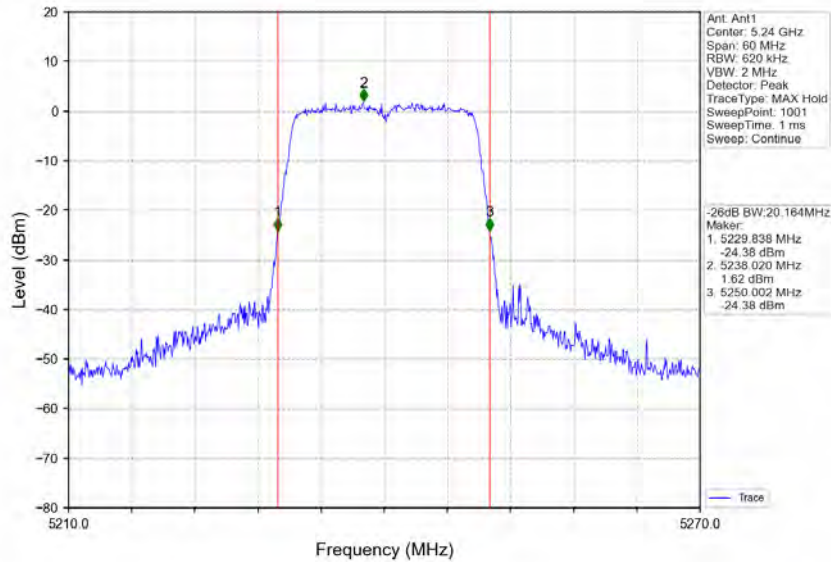
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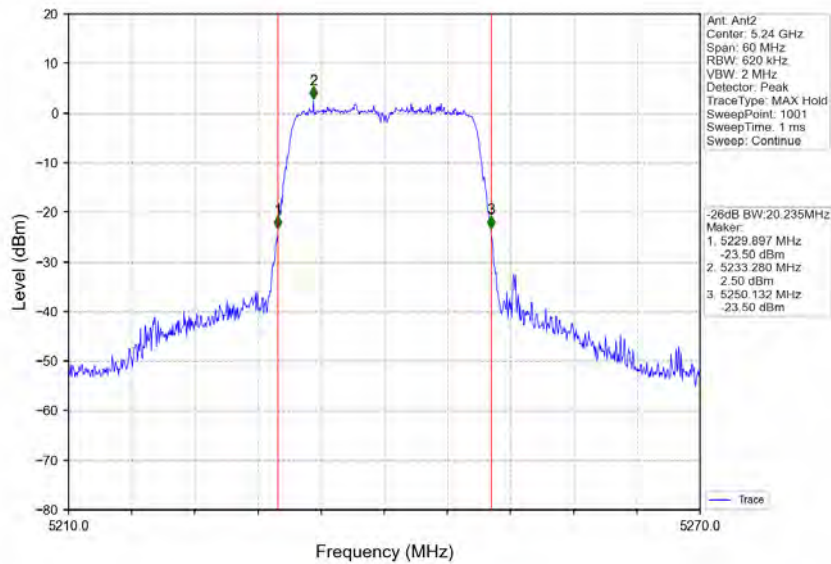
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



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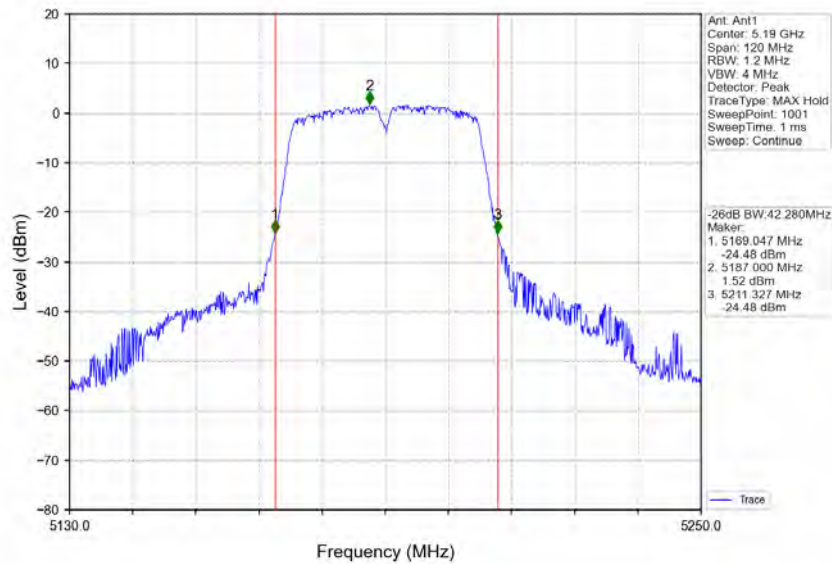
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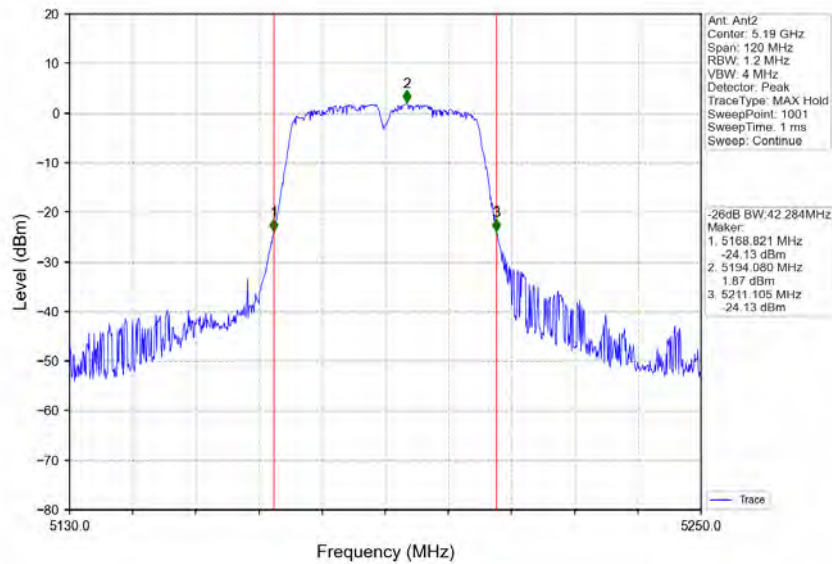
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



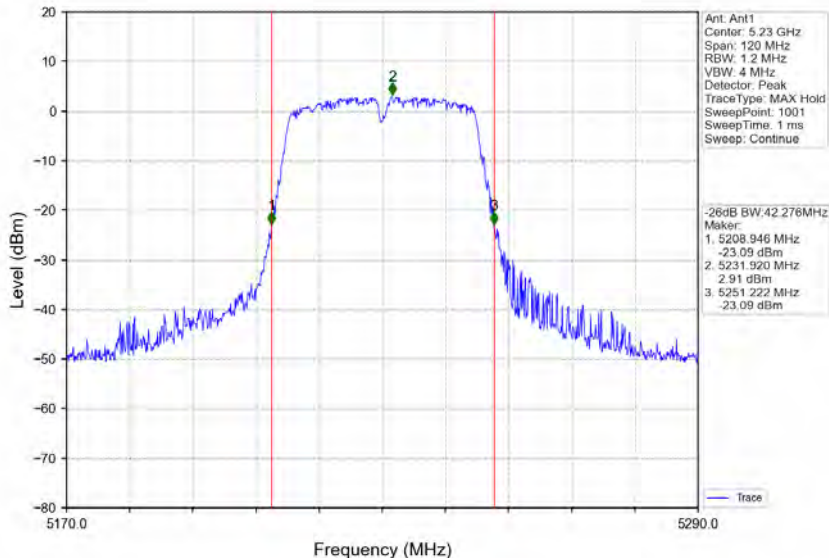
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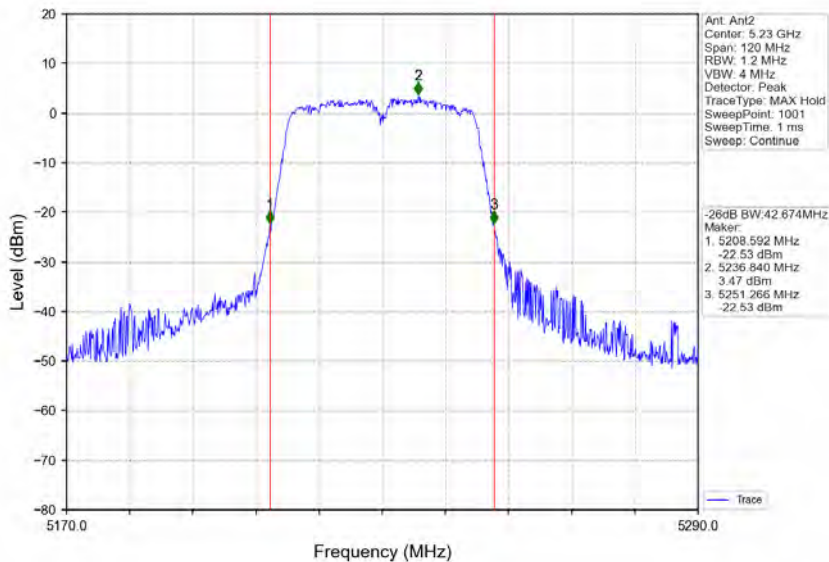
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



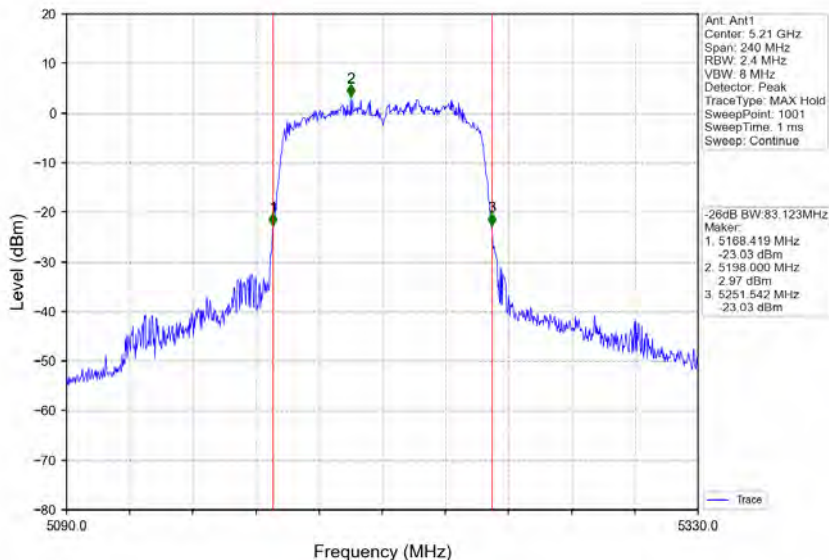
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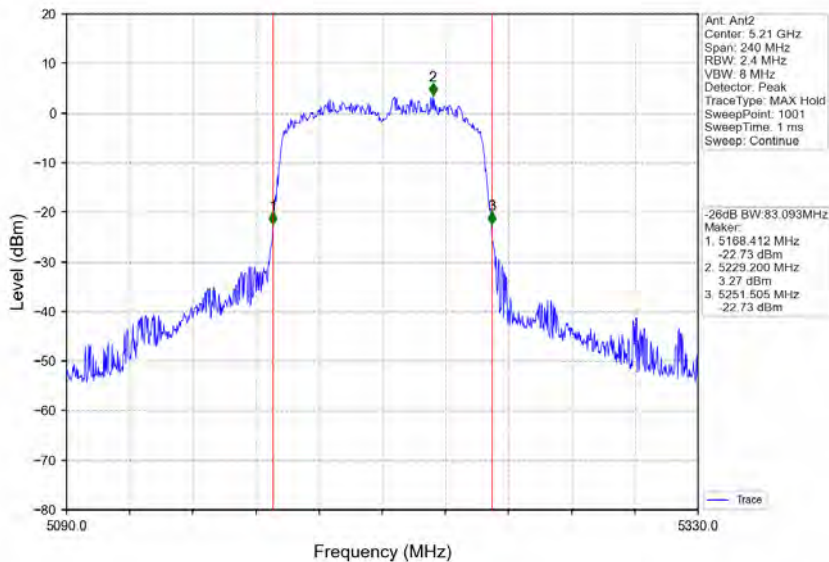
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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	7.45	8.15	/	<=23.98	Pass
		5200	7.81	8.31	/	<=23.98	Pass
		5240	8.61	8.22	/	<=23.98	Pass
		5745	8.67	8.83	/	<=30	Pass
		5785	8.71	8.60	/	<=30	Pass
		5825	9.31	8.31	/	<=30	Pass
802.11n (HT20)	MIMO	5180	7.28	7.60	10.45	<=23.63	Pass
		5200	7.87	7.48	10.69	<=23.63	Pass
		5240	8.50	7.36	10.98	<=23.63	Pass
		5745	8.30	7.96	11.14	<=29.65	Pass
		5785	8.40	7.75	11.10	<=29.65	Pass
		5825	8.70	7.64	11.21	<=29.65	Pass
802.11n (HT40)	MIMO	5190	6.23	6.40	9.33	<=23.63	Pass
		5230	7.69	7.43	10.57	<=23.63	Pass
		5755	8.16	8.01	11.10	<=29.65	Pass
		5795	8.14	7.65	10.91	<=29.65	Pass
802.11ac (VHT20)	MIMO	5180	6.63	7.70	10.21	<=23.63	Pass
		5200	6.95	7.82	10.42	<=23.63	Pass
		5240	7.94	7.73	10.85	<=23.63	Pass
		5745	8.26	8.32	11.30	<=29.65	Pass
		5785	8.33	8.14	11.25	<=29.65	Pass
		5825	8.91	7.82	11.41	<=29.65	Pass
802.11ac (VHT40)	MIMO	5190	5.84	6.10	8.98	<=23.63	Pass
		5230	7.11	7.22	10.18	<=23.63	Pass
		5755	7.78	7.75	10.78	<=29.65	Pass
		5795	7.78	7.32	10.57	<=29.65	Pass
802.11ac (VHT80)	MIMO	5210	4.39	4.67	7.54	<=23.63	Pass
		5775	7.10	7.24	10.18	<=29.65	Pass

Note1: Antenna Gain: Ant1: 3.06dBi; Ant2: 3.60dBi;  
 Note2: Directional Gain: 6.35dBi

#### 3.2 EIRP for IC

##### 3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5180	10.51	11.75	/	<=23.01	Pass



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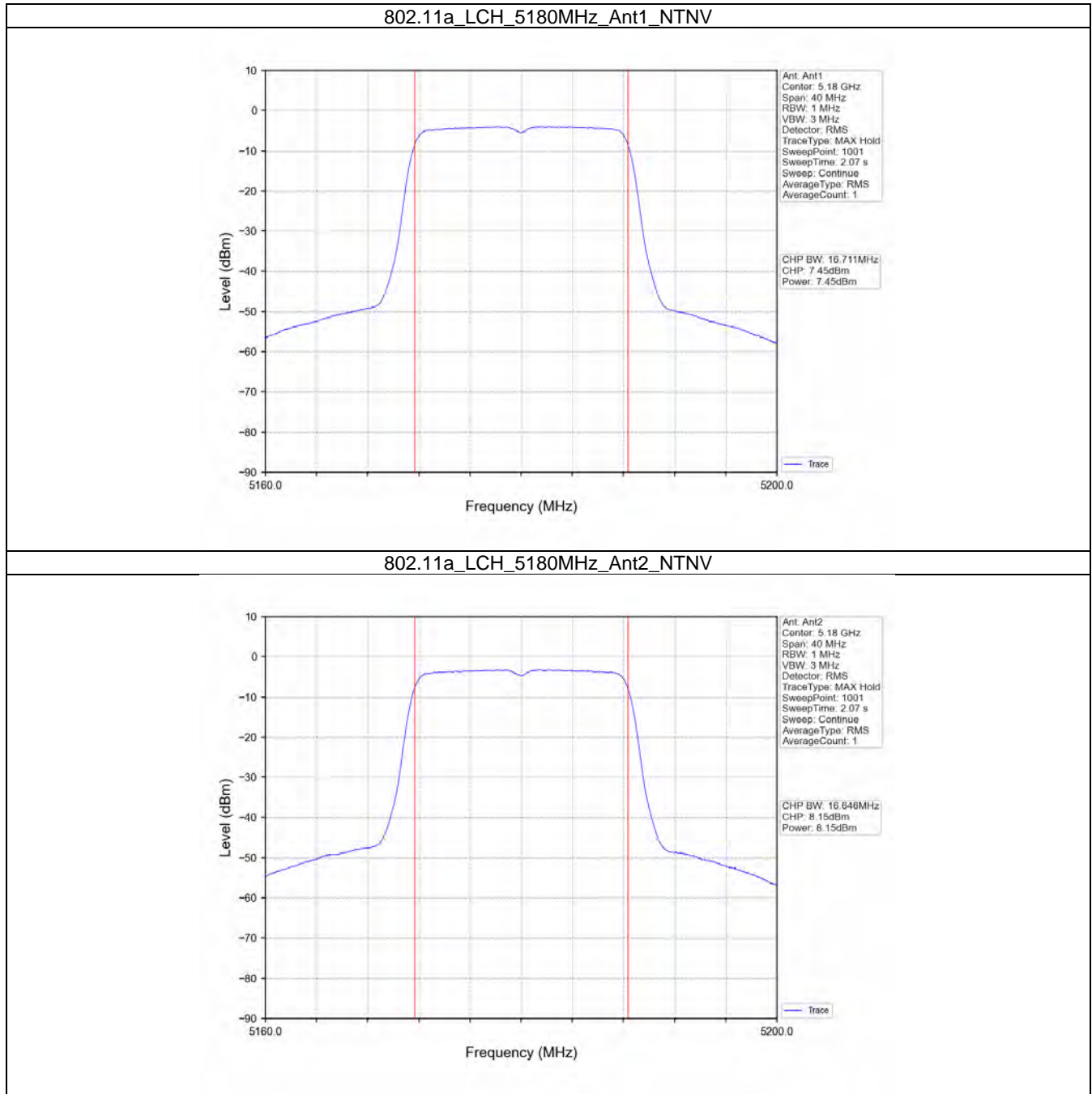
		5200	10.87	11.91	/	<=23.01	Pass
		5240	11.67	11.82	/	<=23.01	Pass
		5745	11.73	12.43	/	/	Pass
		5785	11.77	12.20	/	/	Pass
		5825	12.37	11.91	/	/	Pass
802.11n (HT20)	MIMO	5180	10.34	11.20	13.80	<=23.01	Pass
		5200	10.93	11.08	14.02	<=23.01	Pass
		5240	11.56	10.96	14.28	<=23.01	Pass
		5745	11.36	11.56	14.47	/	Pass
		5785	11.46	11.35	14.42	/	Pass
		5825	11.76	11.24	14.52	/	Pass
802.11n (HT40)	MIMO	5190	9.29	10.00	12.67	<=23.01	Pass
		5230	10.75	11.03	13.90	<=23.01	Pass
		5755	11.22	11.61	14.43	/	Pass
		5795	11.20	11.25	14.24	/	Pass
802.11ac (VHT20)	MIMO	5180	9.69	11.30	13.58	<=23.01	Pass
		5200	10.01	11.42	13.78	<=23.01	Pass
		5240	11.00	11.33	14.18	<=23.01	Pass
		5745	11.32	11.92	14.64	/	Pass
		5785	11.39	11.74	14.58	/	Pass
802.11ac (VHT40)	MIMO	5190	8.90	9.70	12.33	<=23.01	Pass
		5230	10.17	10.82	13.52	<=23.01	Pass
		5755	10.84	11.35	14.11	/	Pass
		5795	10.84	10.92	13.89	/	Pass
802.11ac (VHT80)	MIMO	5210	7.45	8.27	10.89	<=23.01	Pass
		5775	10.16	10.84	13.52	/	Pass
Note1: Antenna Gain: Ant1: 3.06dBi; Ant2: 3.60dBi; Note2: E.I.R.P = Measured Power + Antenna Gain Note3: Directional Gain: 6.35dBi							



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### 3.1.2 Test Graph



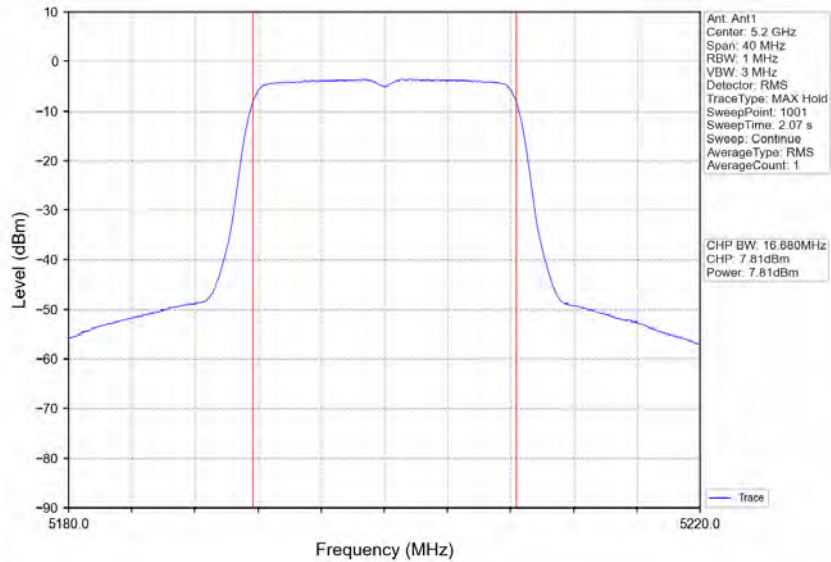
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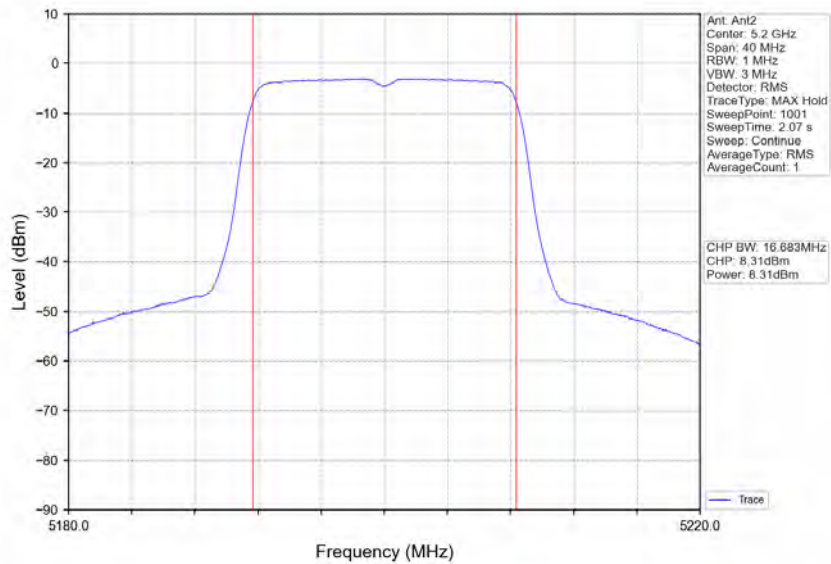
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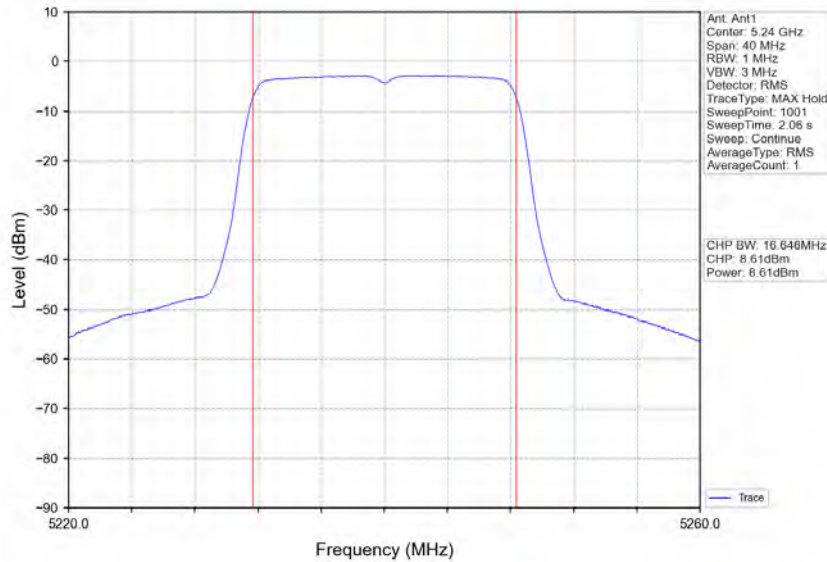
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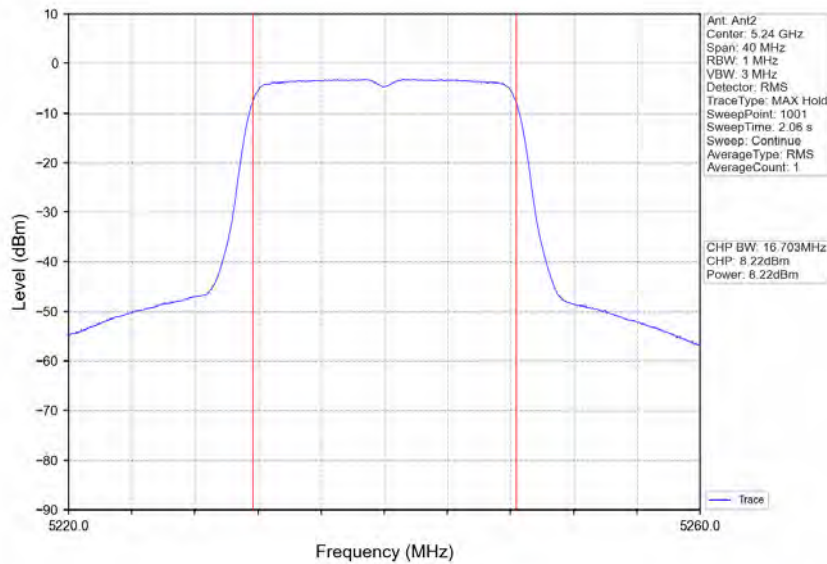
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV



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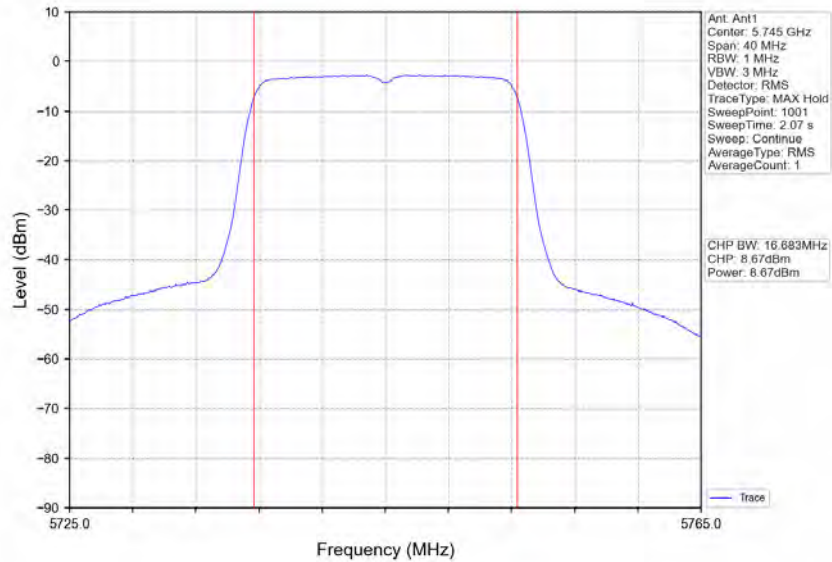
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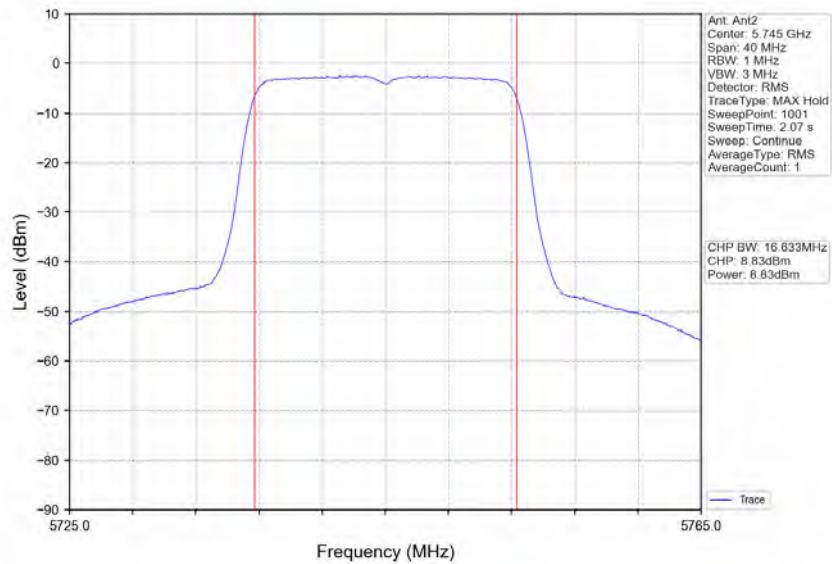
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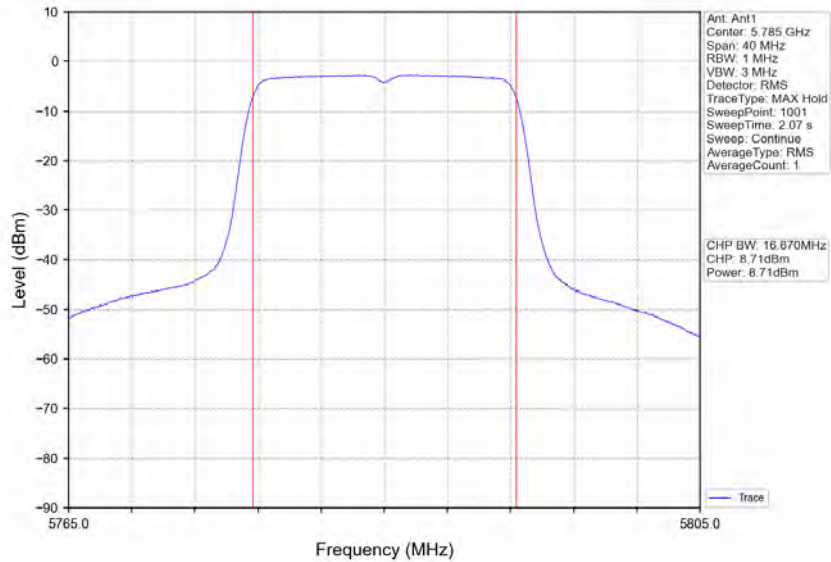
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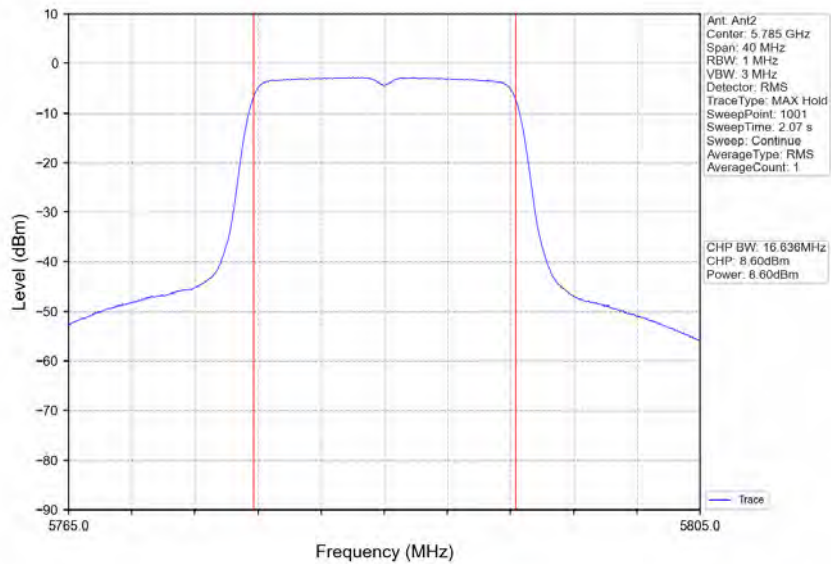
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



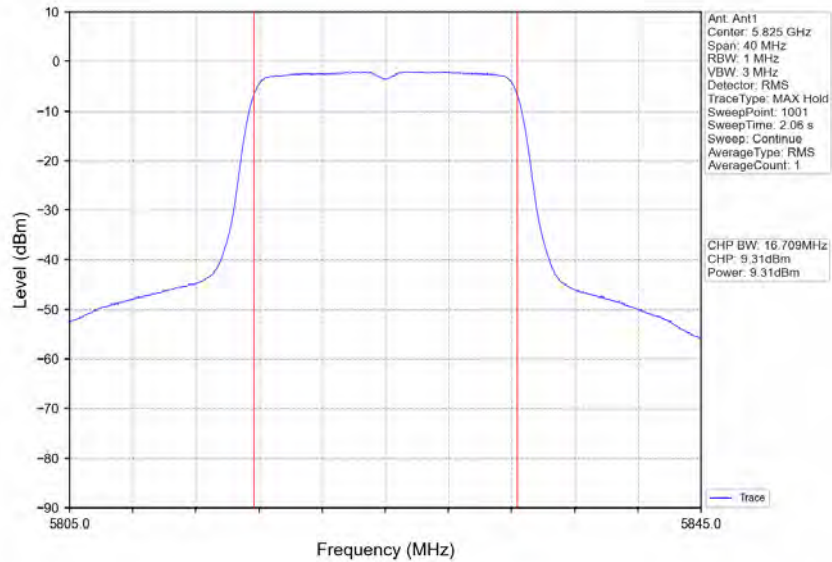
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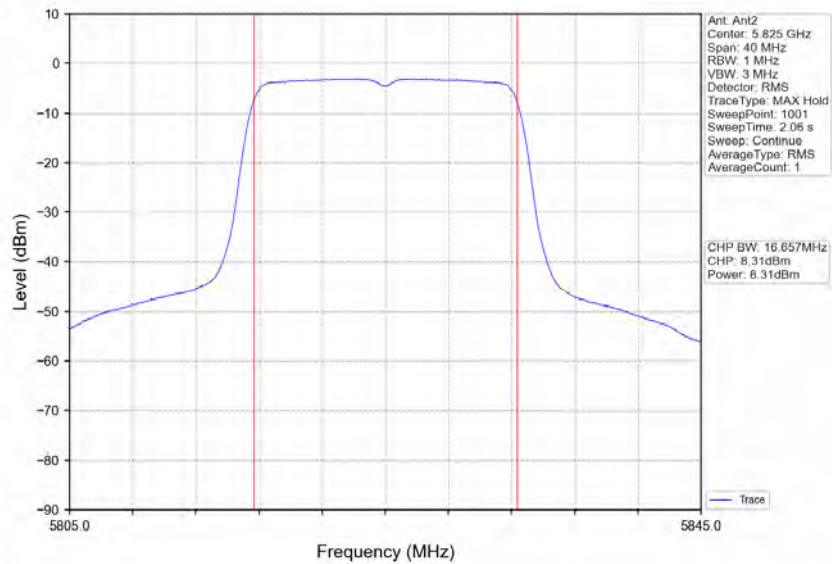
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant2\_NTNV

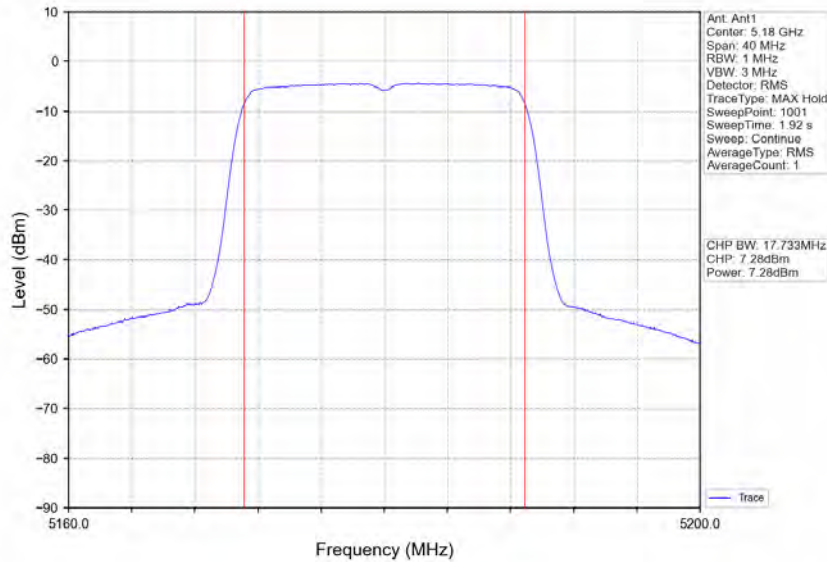


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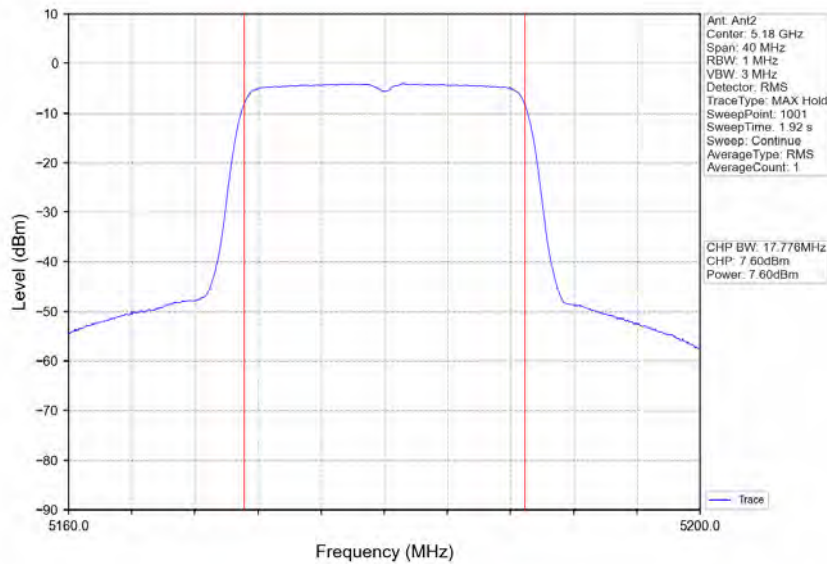
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



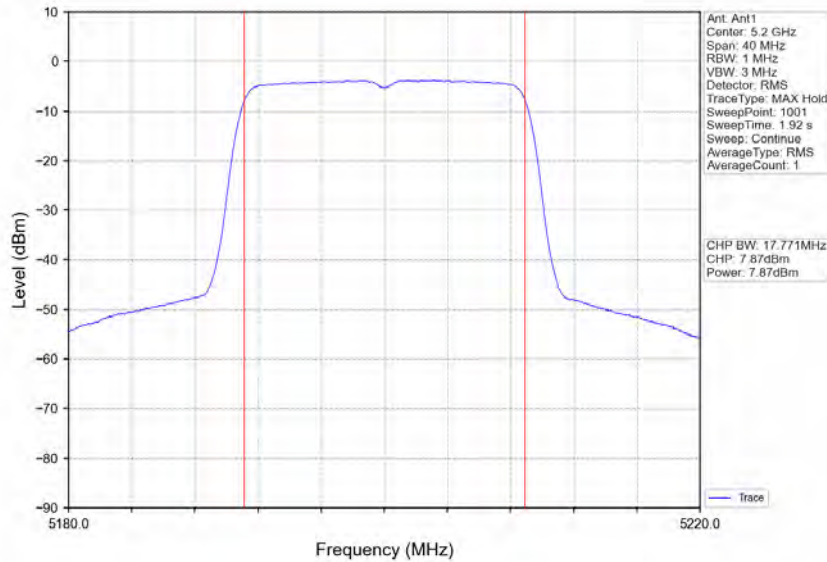
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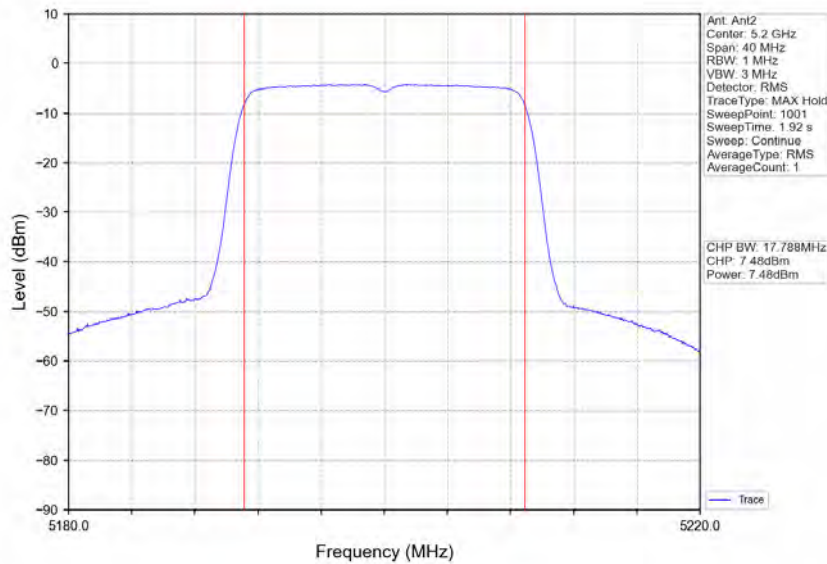
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



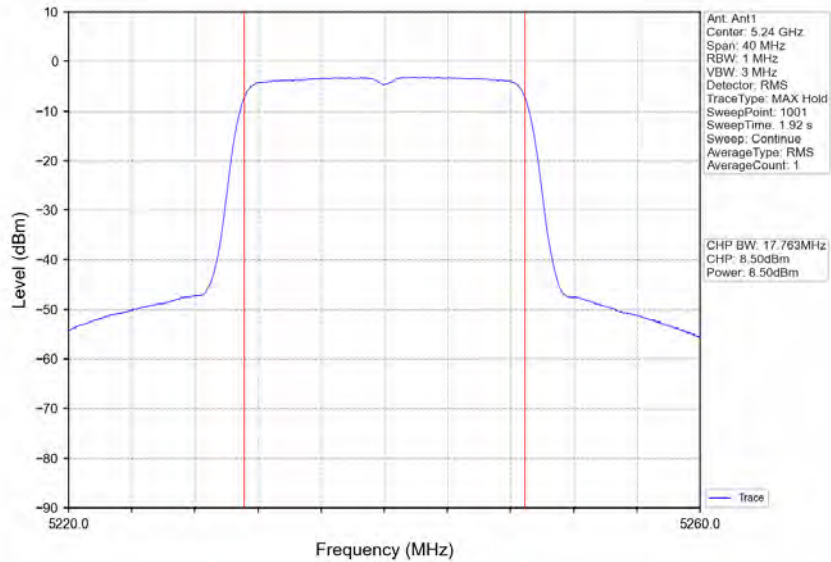
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



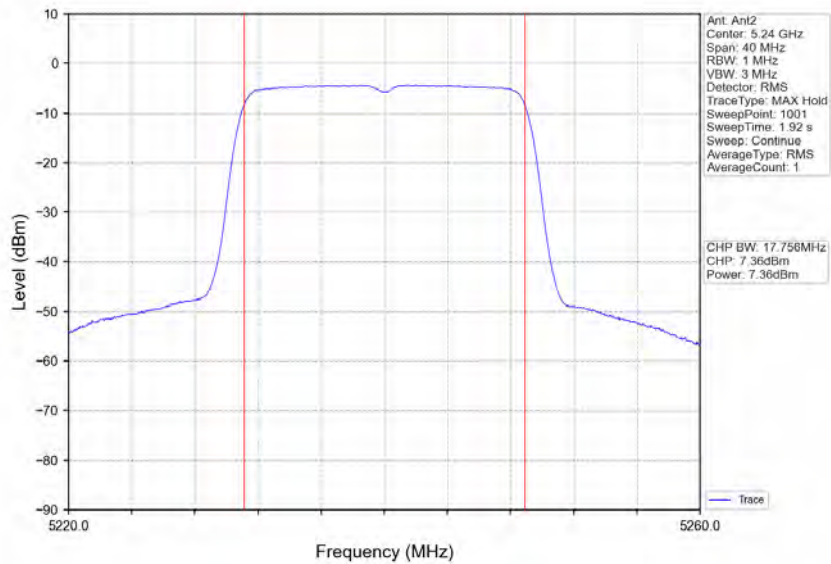
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



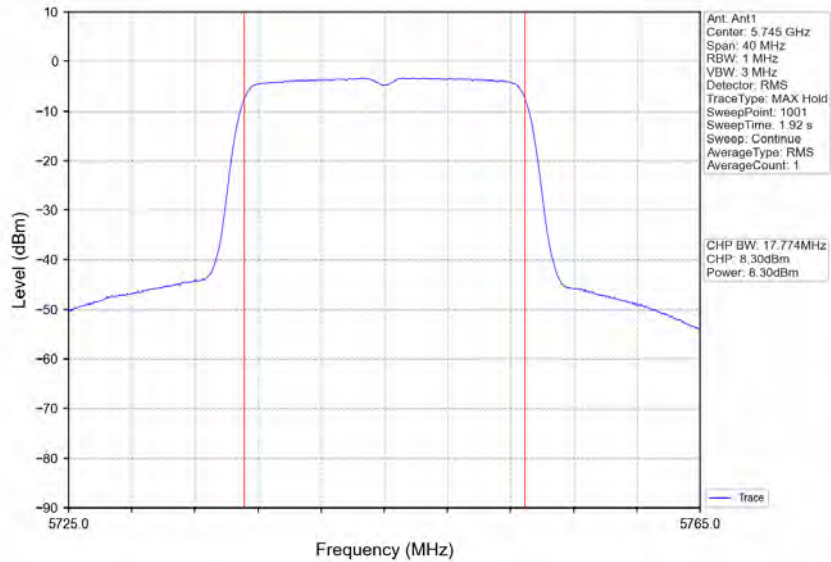
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



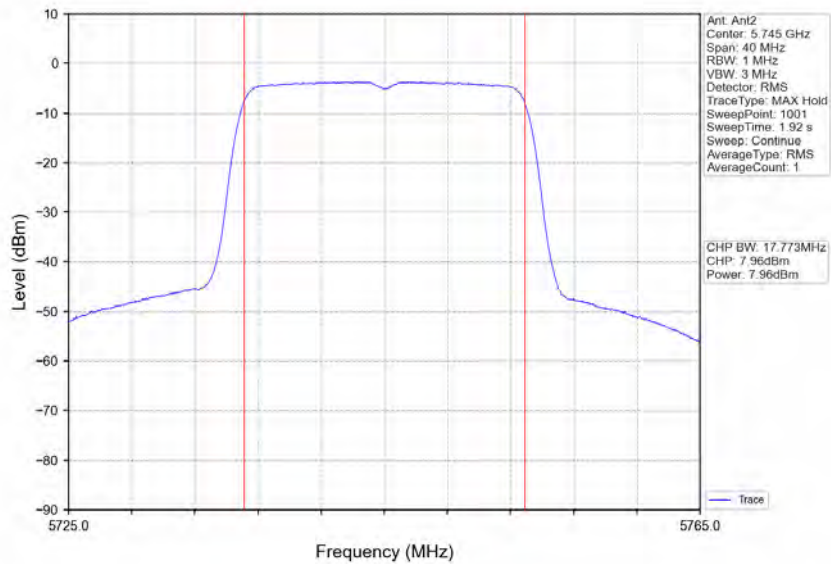
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



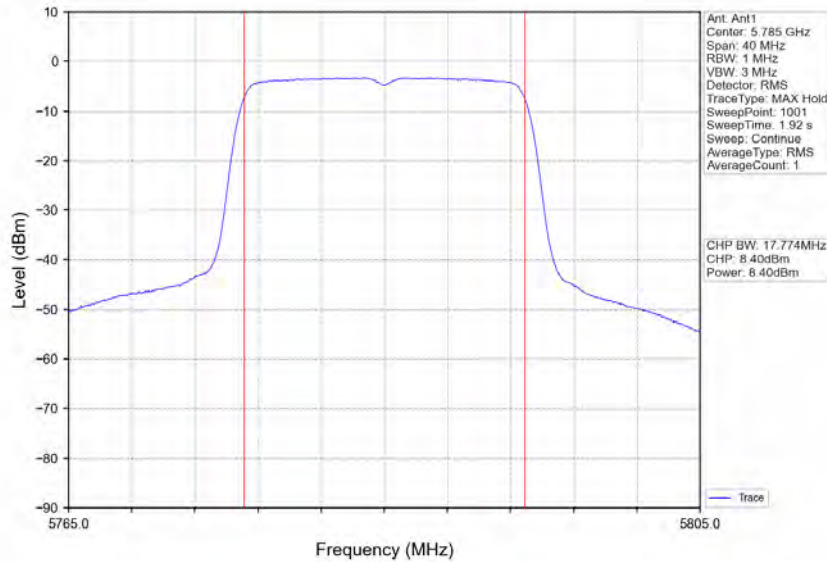
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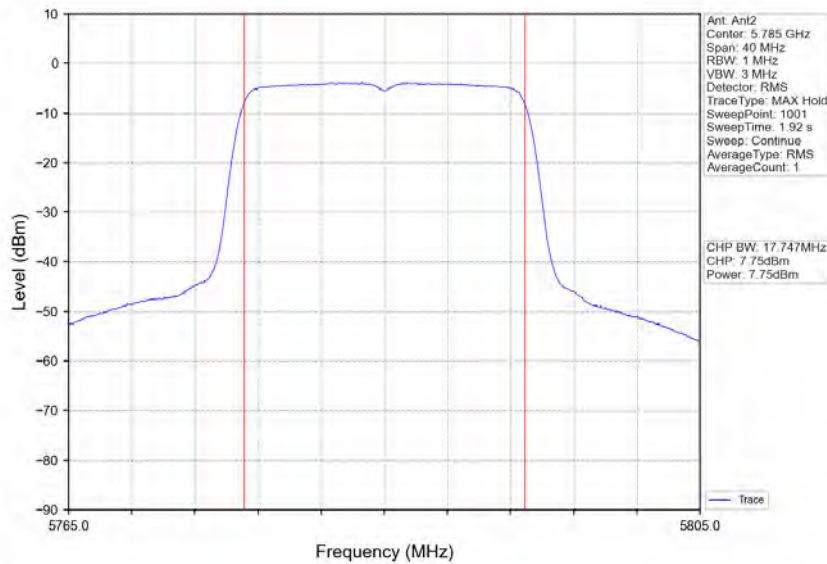
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5785MHz\_Ant2\_NTNV



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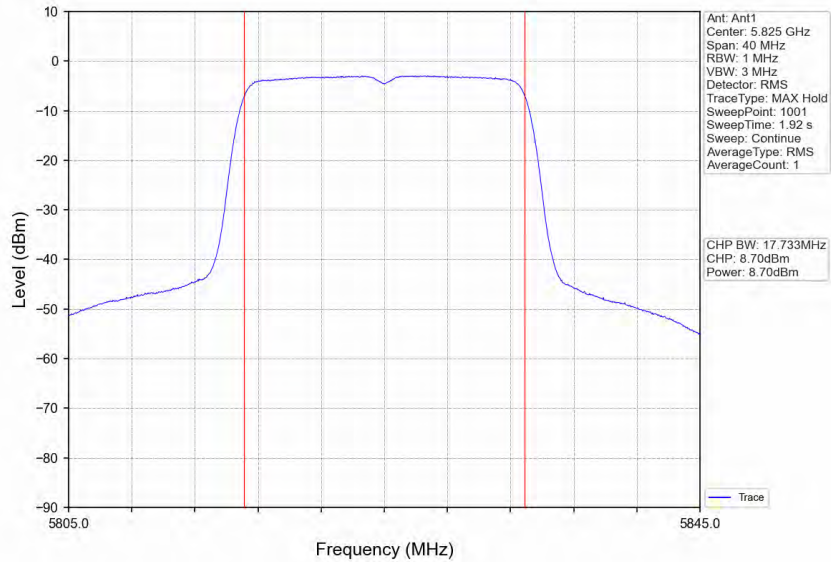
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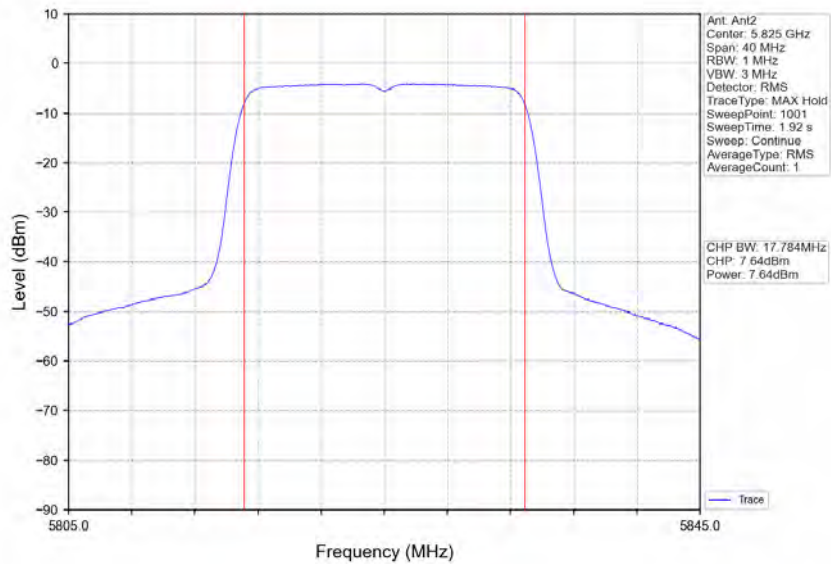
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5825MHz\_Ant2\_NTNV



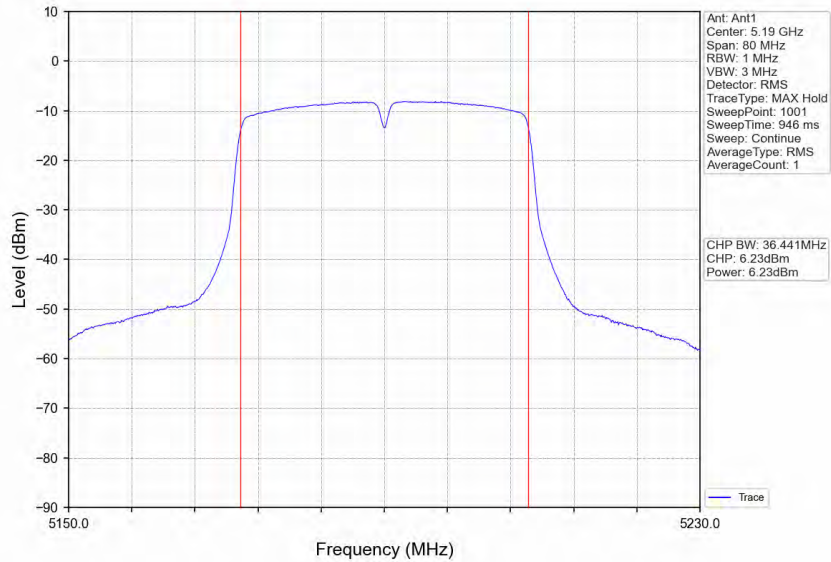
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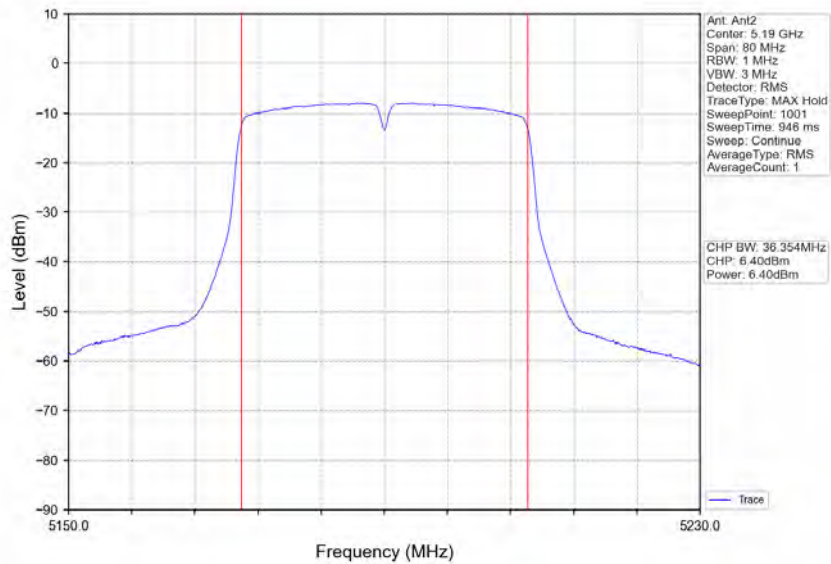
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV

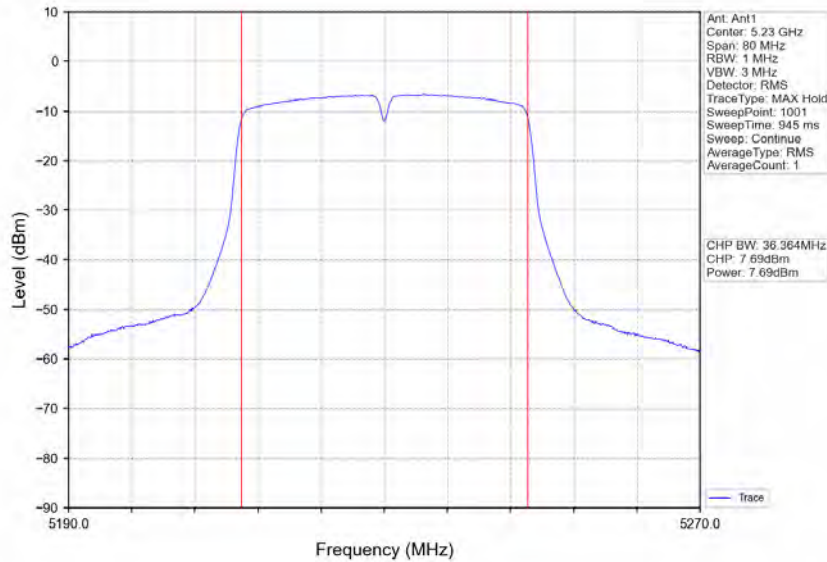


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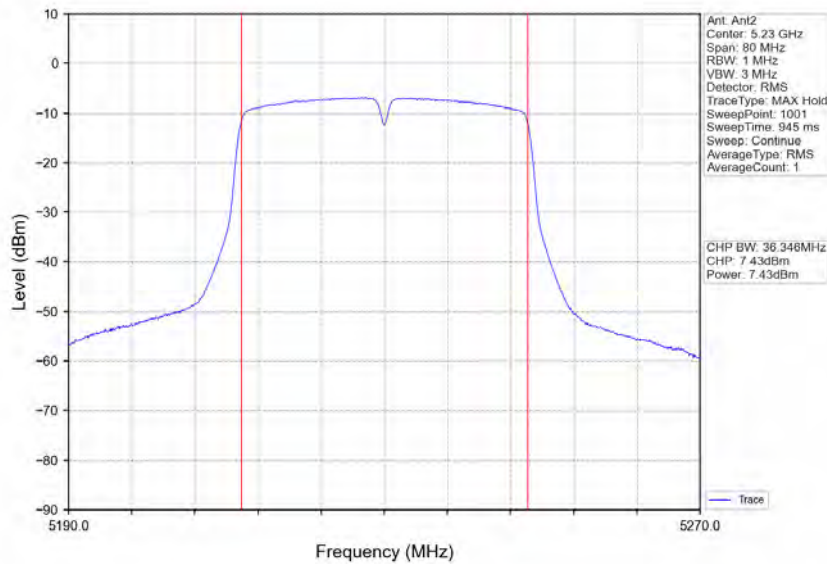
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802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



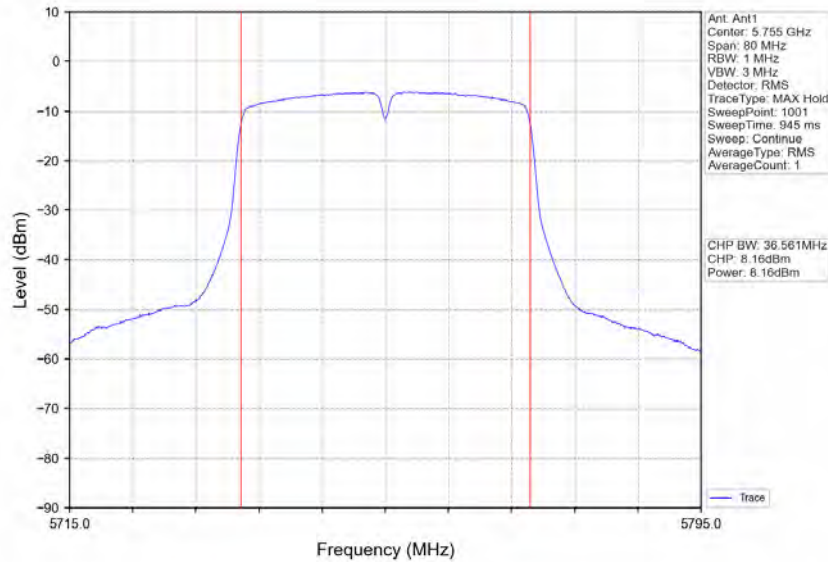
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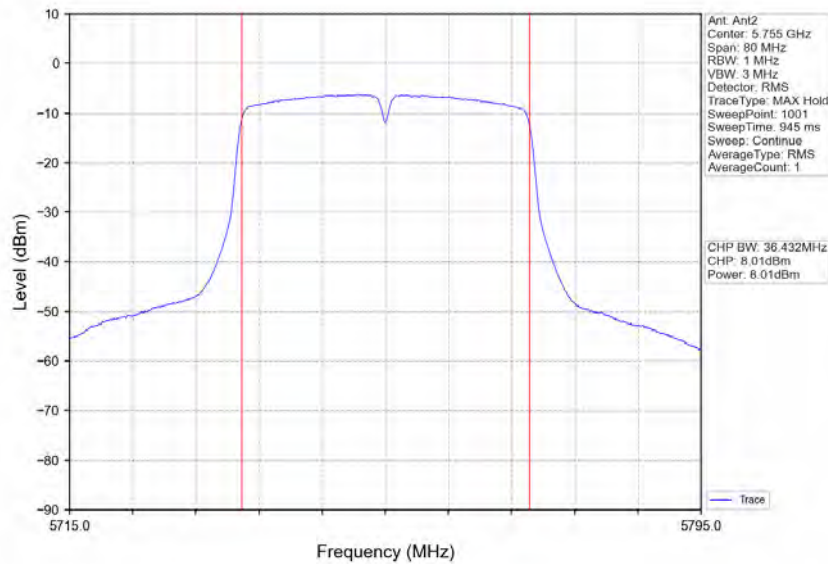
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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



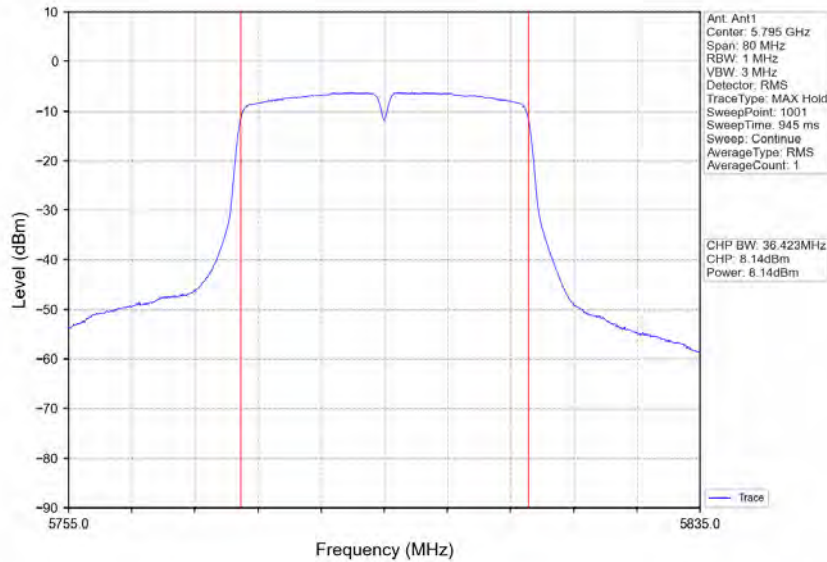
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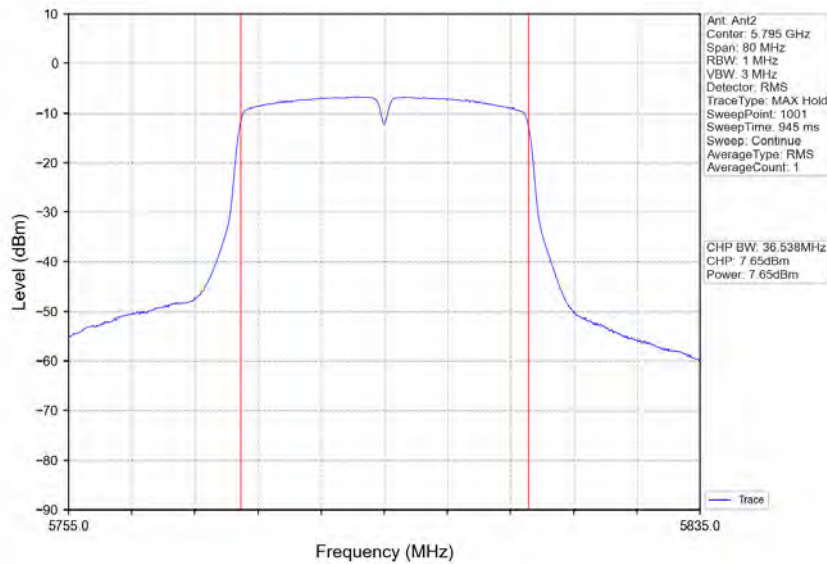
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



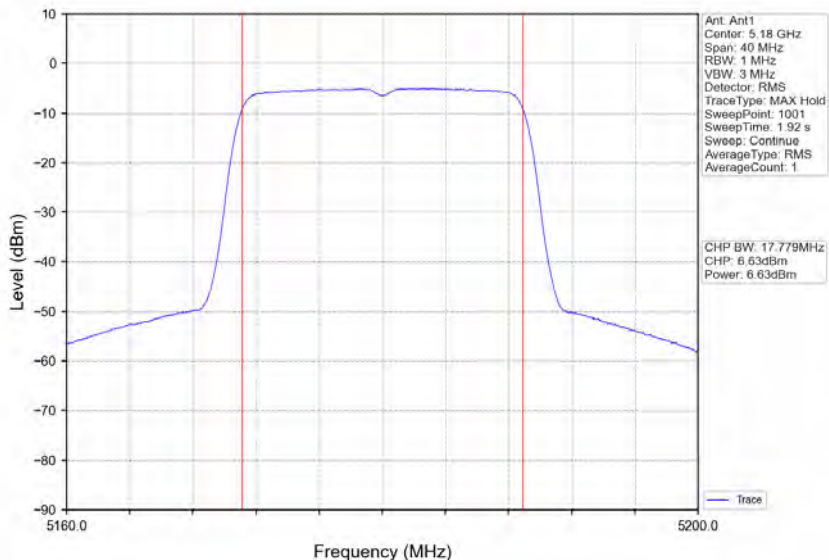
802.11n(HT40)\_HCH\_5795MHz\_Ant2\_NTNV



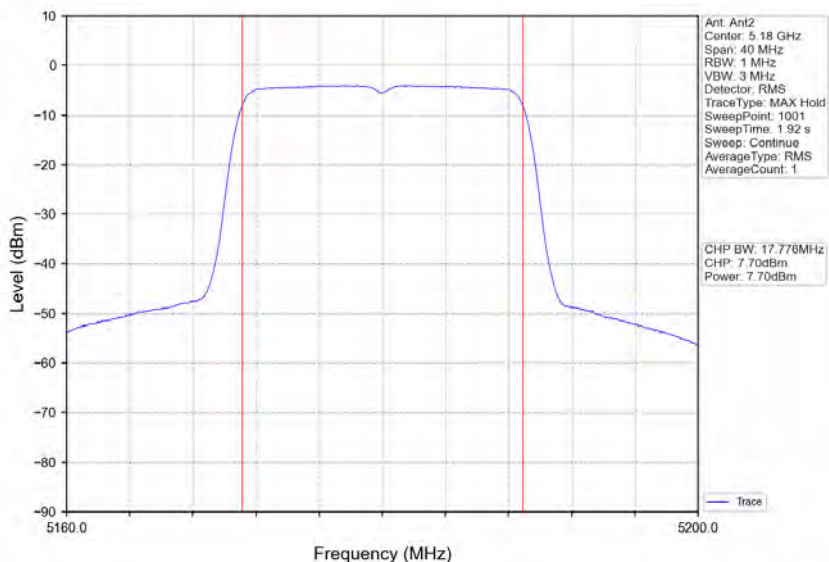
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



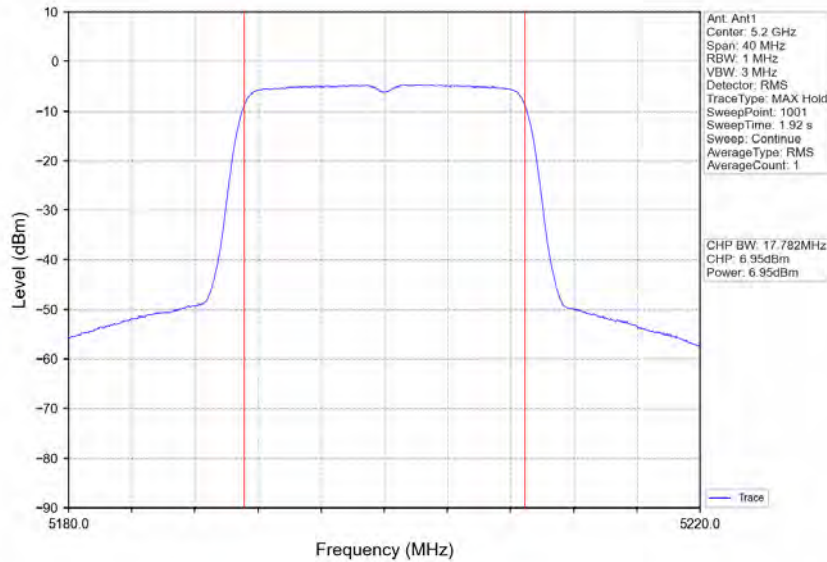
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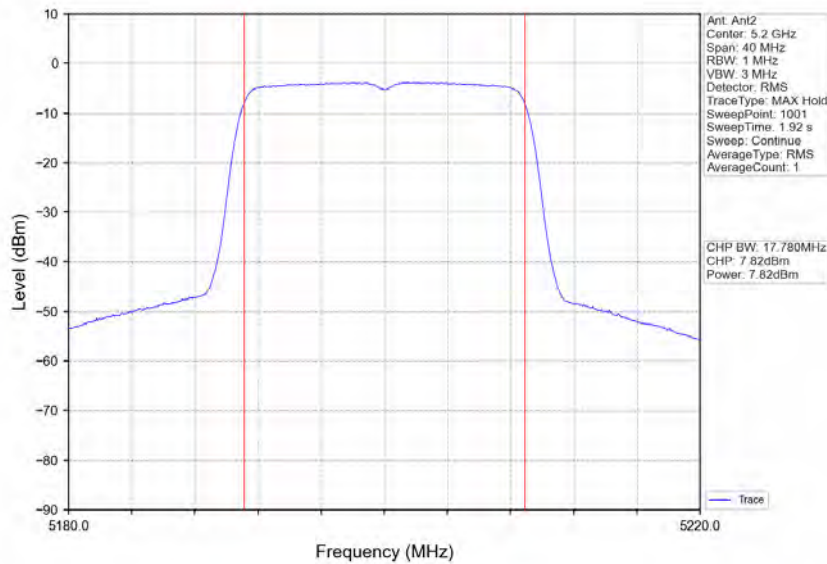
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



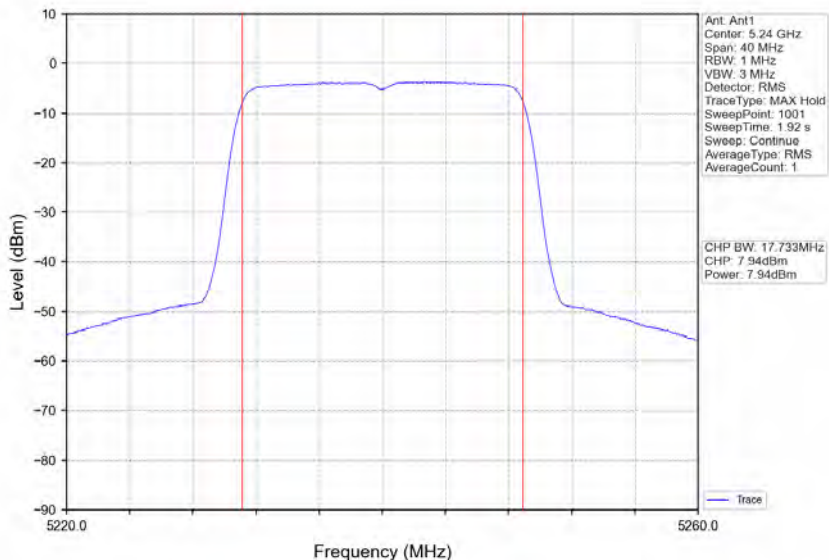
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



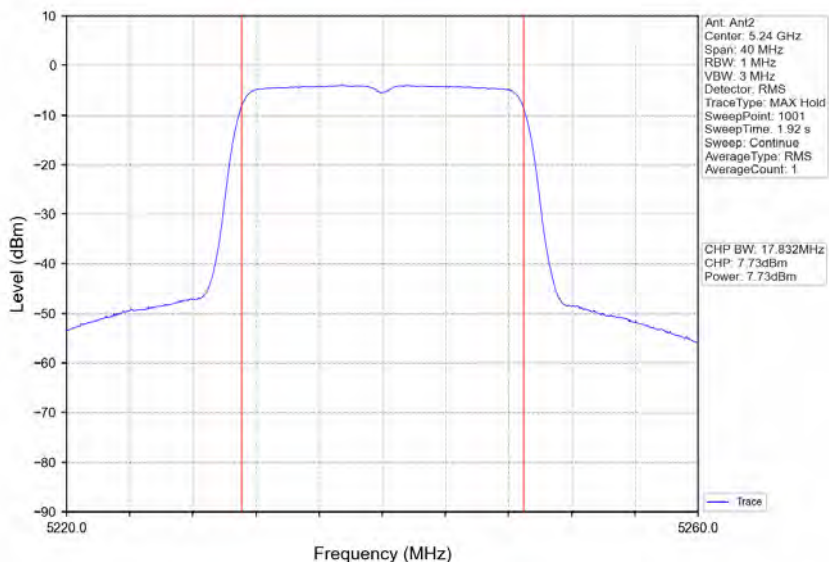
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



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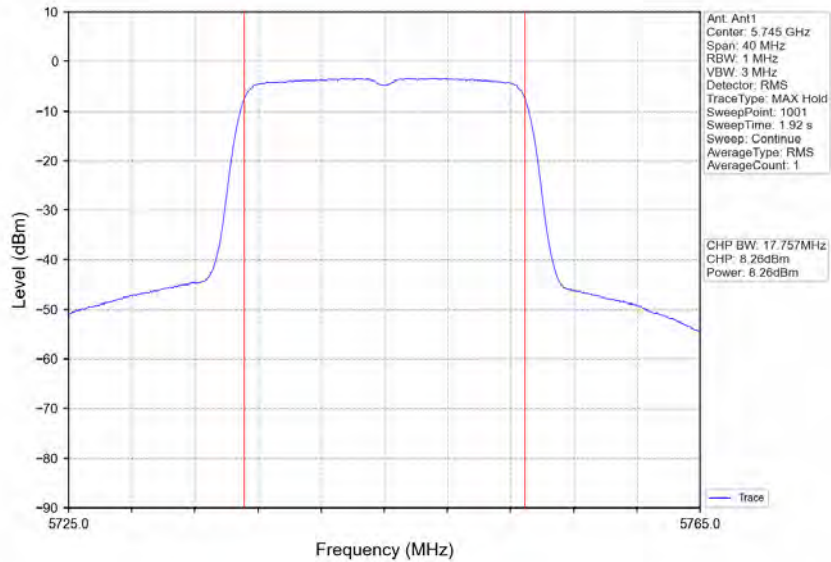
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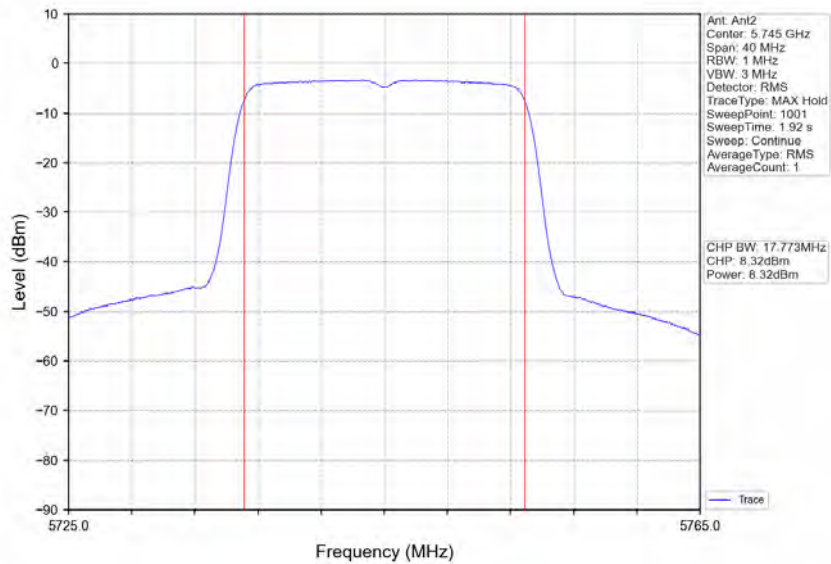
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



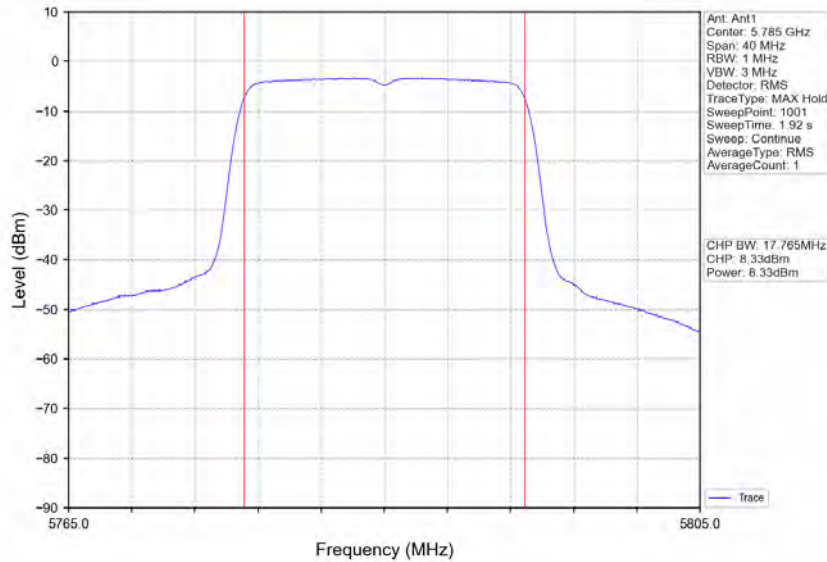
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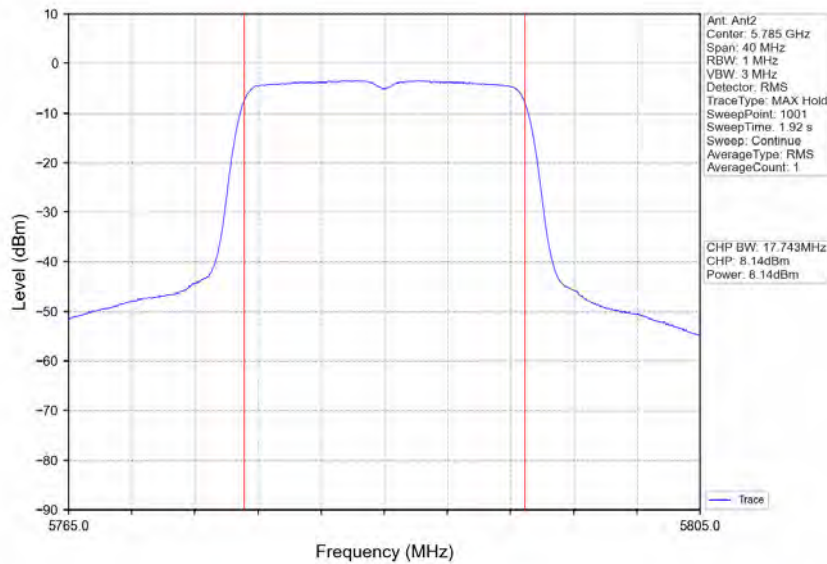
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



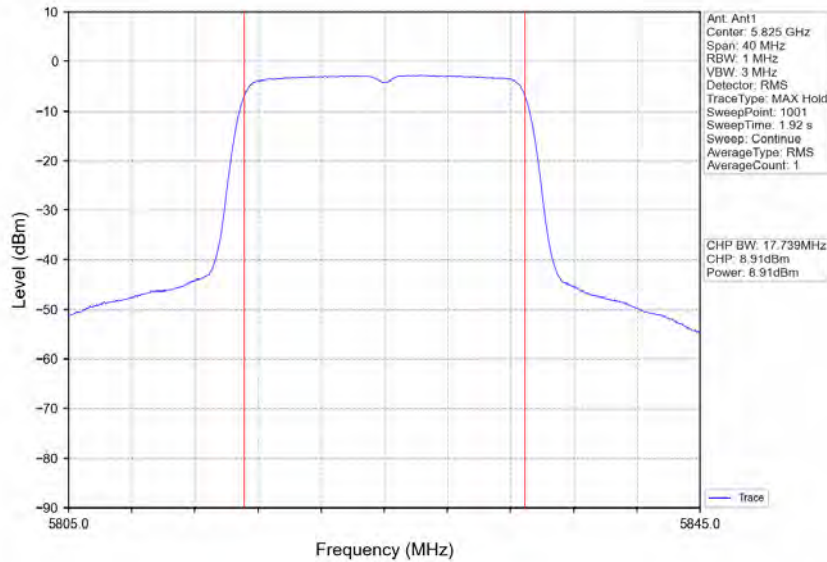
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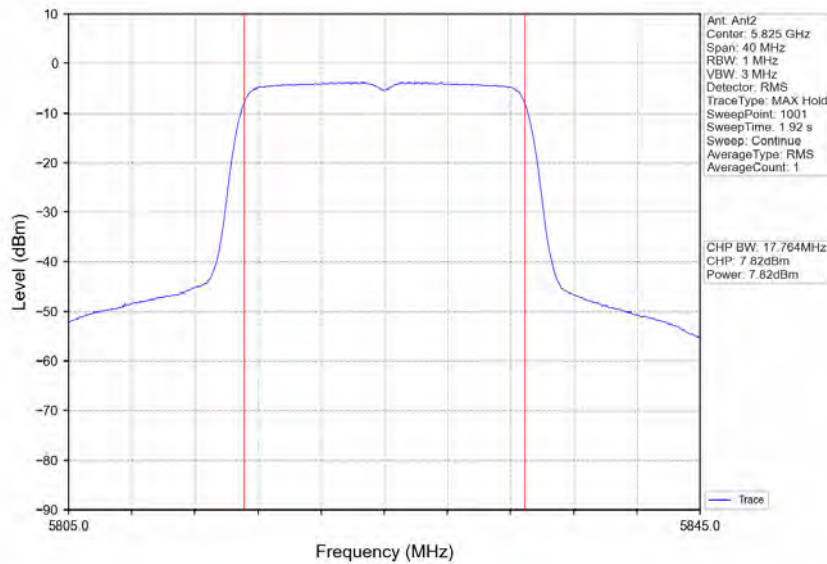
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



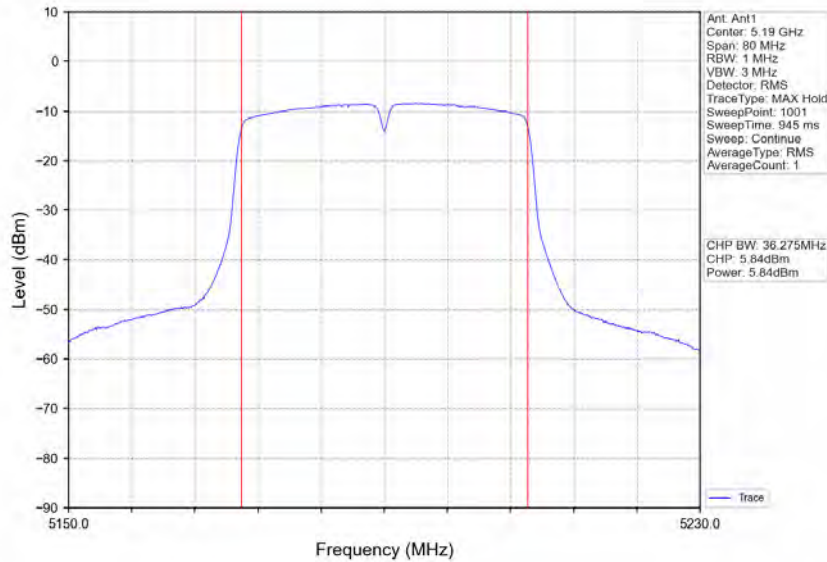
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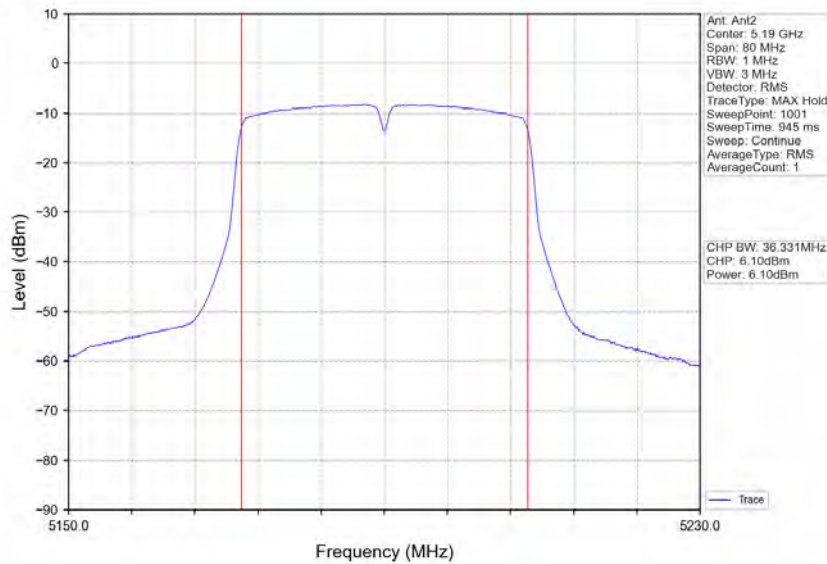
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



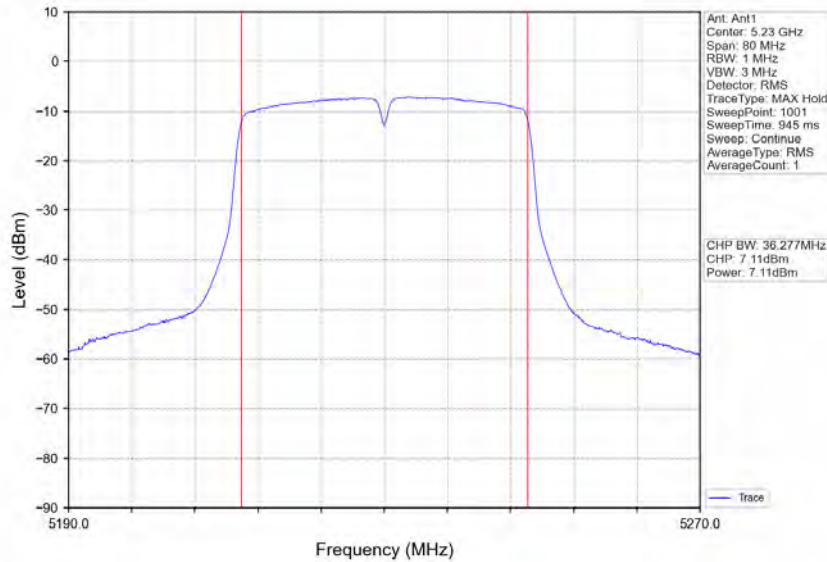
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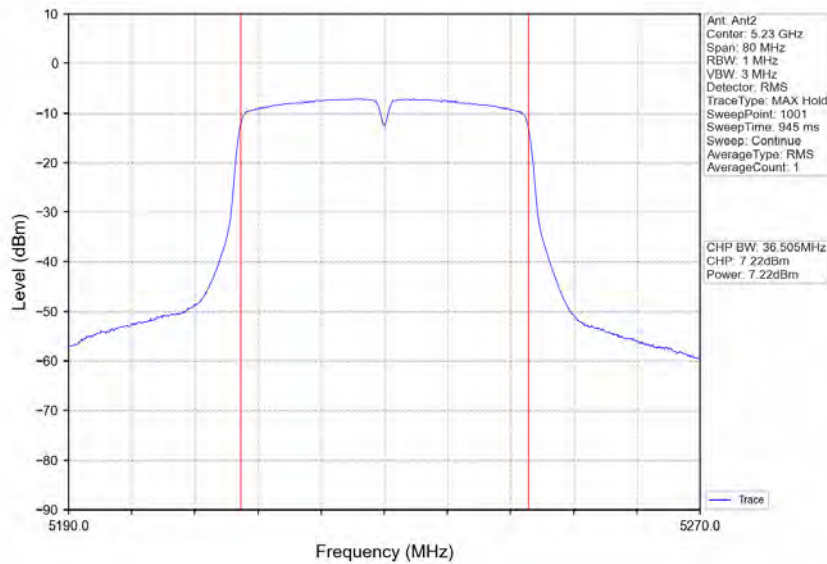
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



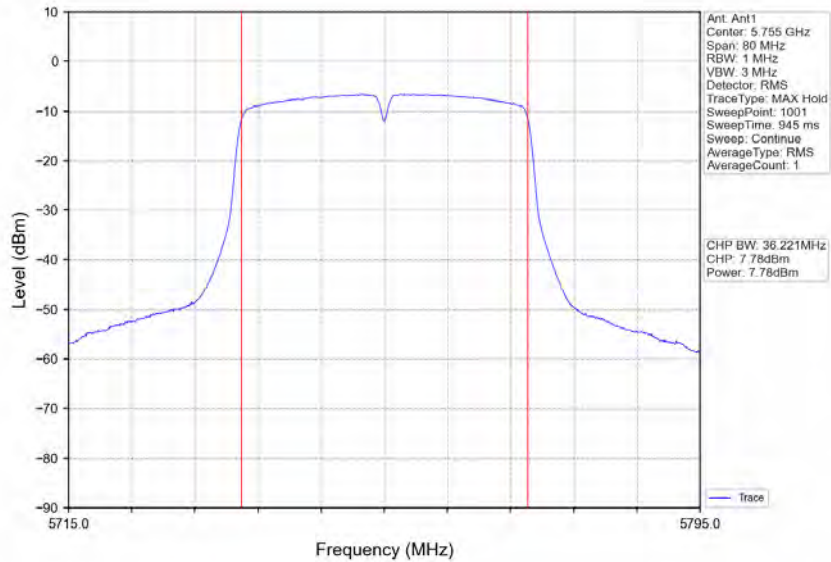
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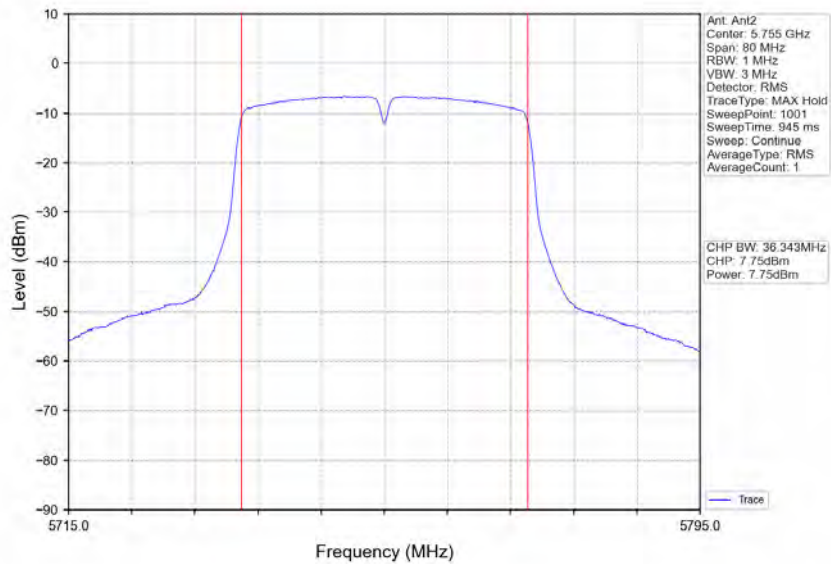
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



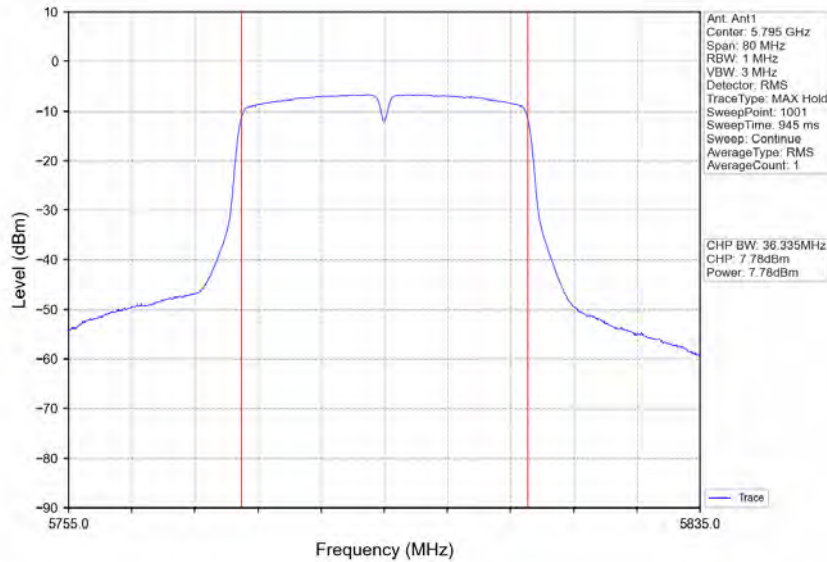
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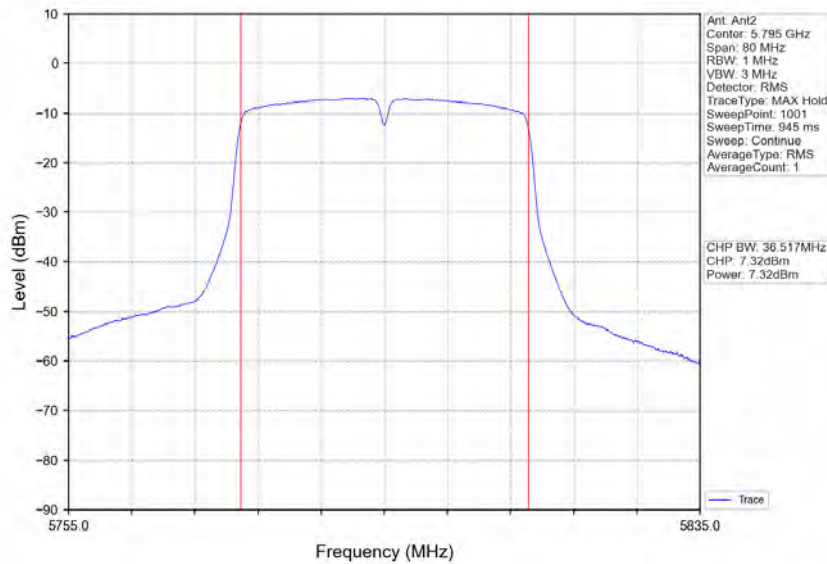
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



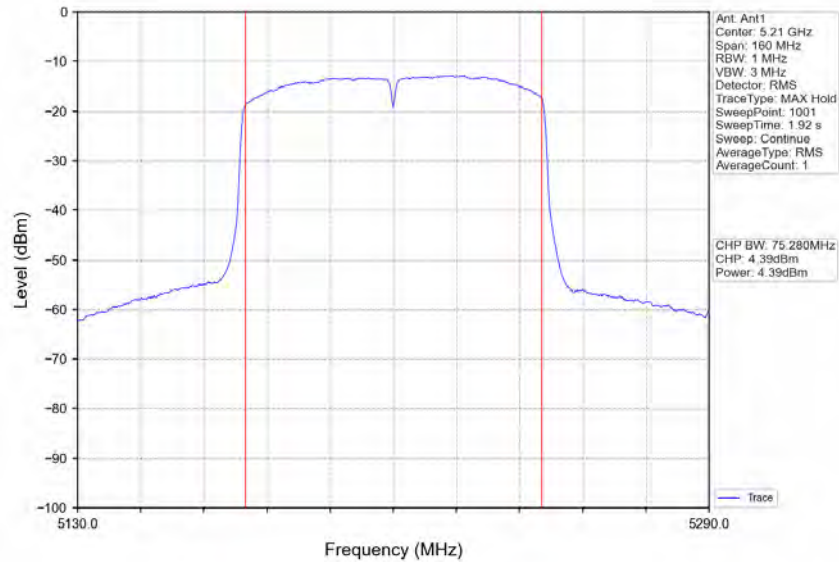
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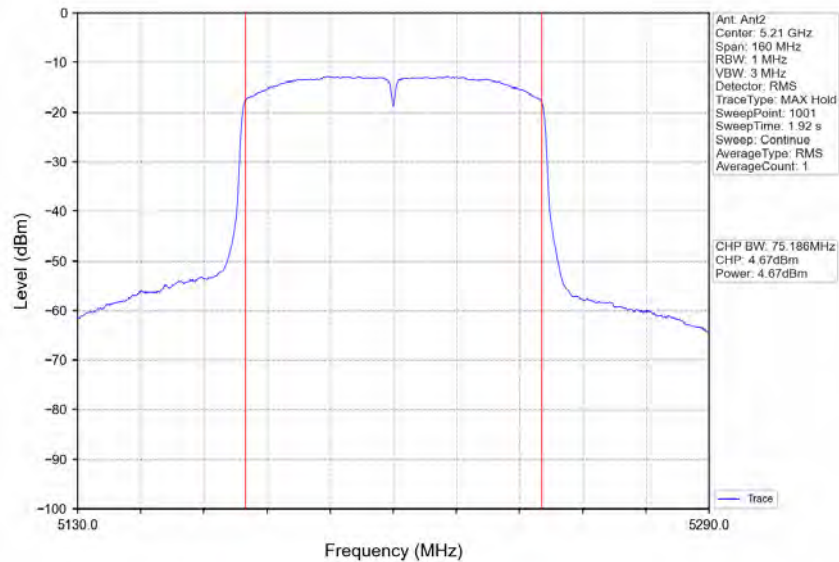
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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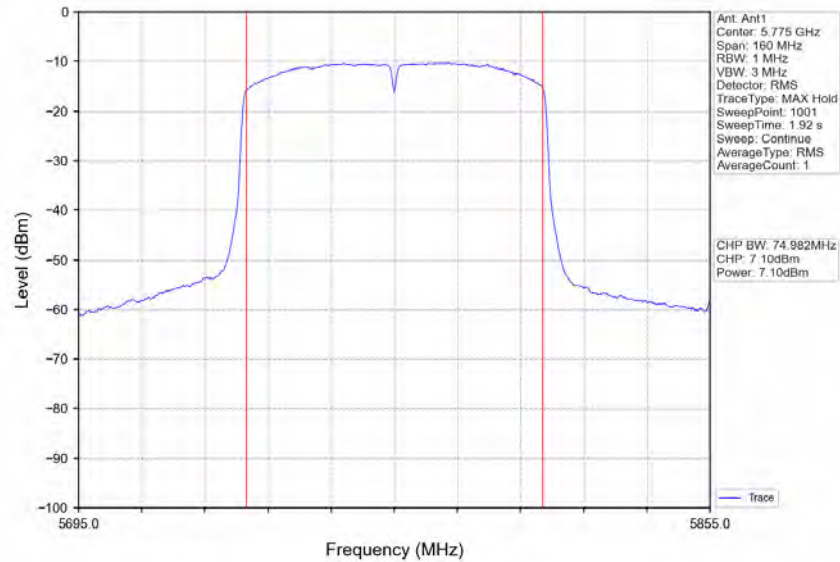


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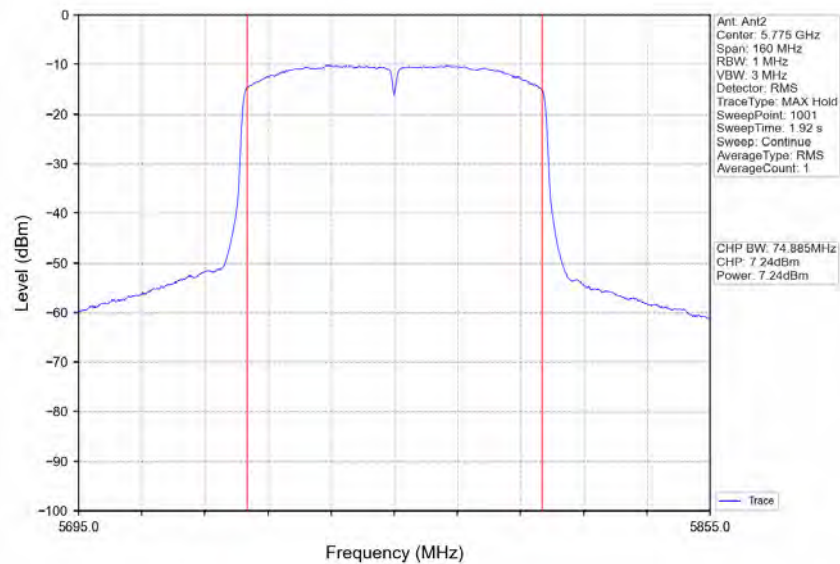
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



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## 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	-3.97	-3.18	/	<=11	Pass
		5200	-3.56	-3.06	/	<=11	Pass
		5240	-2.71	-3.16	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-4.34	-3.99	-1.24	<=10.65	Pass
		5200	-3.86	-4.17	-1.09	<=10.65	Pass
		5240	-3.15	-4.22	-0.75	<=10.65	Pass
802.11n (HT40)	MIMO	5190	-8.07	-7.96	-5.05	<=10.65	Pass
		5230	-6.65	-6.88	-3.84	<=10.65	Pass
802.11ac (VHT20)	MIMO	5180	-5.04	-3.90	-1.49	<=10.65	Pass
		5200	-4.71	-3.82	-1.29	<=10.65	Pass
		5240	-3.65	-3.90	-0.85	<=10.65	Pass
802.11ac (VHT40)	MIMO	5190	-8.47	-8.16	-5.37	<=10.65	Pass
		5230	-7.14	-7.13	-4.22	<=10.65	Pass
802.11ac (VHT80)	MIMO	5210	-12.72	-12.76	-9.82	<=10.65	Pass

Note1: Antenna Gain: Ant1: 3.06dBi; Ant2: 3.60dBi;

#### 4.1.2 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	-3.97	-3.18	/	-0.91	0.42	/	<=10	Pass
		5200	-3.56	-3.06	/	-0.50	0.54	/	<=10	Pass
		5240	-2.71	-3.16	/	0.35	0.44	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-4.34	-3.99	-1.24	-1.28	-0.39	2.20	<=10	Pass
		5200	-3.86	-4.17	-1.09	-0.80	-0.57	2.33	<=10	Pass
		5240	-3.15	-4.22	-0.75	-0.09	-0.62	2.66	<=10	Pass
802.11n (HT40)	MIMO	5190	-8.07	-7.96	-5.05	-5.01	-4.36	-1.66	<=10	Pass
		5230	-6.65	-6.88	-3.84	-3.59	-3.28	-0.42	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-5.04	-3.90	-1.49	-1.98	-0.30	1.95	<=10	Pass
		5200	-4.71	-3.82	-1.29	-1.65	-0.22	2.13	<=10	Pass
		5240	-3.65	-3.90	-0.85	-0.59	-0.30	2.57	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-8.47	-8.16	-5.37	-5.41	-4.56	-1.95	<=10	Pass
		5230	-7.14	-7.13	-4.22	-4.08	-3.53	-0.79	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-12.72	-12.76	-9.82	-9.66	-9.16	-6.39	<=10	Pass

Note1: Antenna Gain: Ant1: 3.06dBi; Ant2: 3.60dBi;



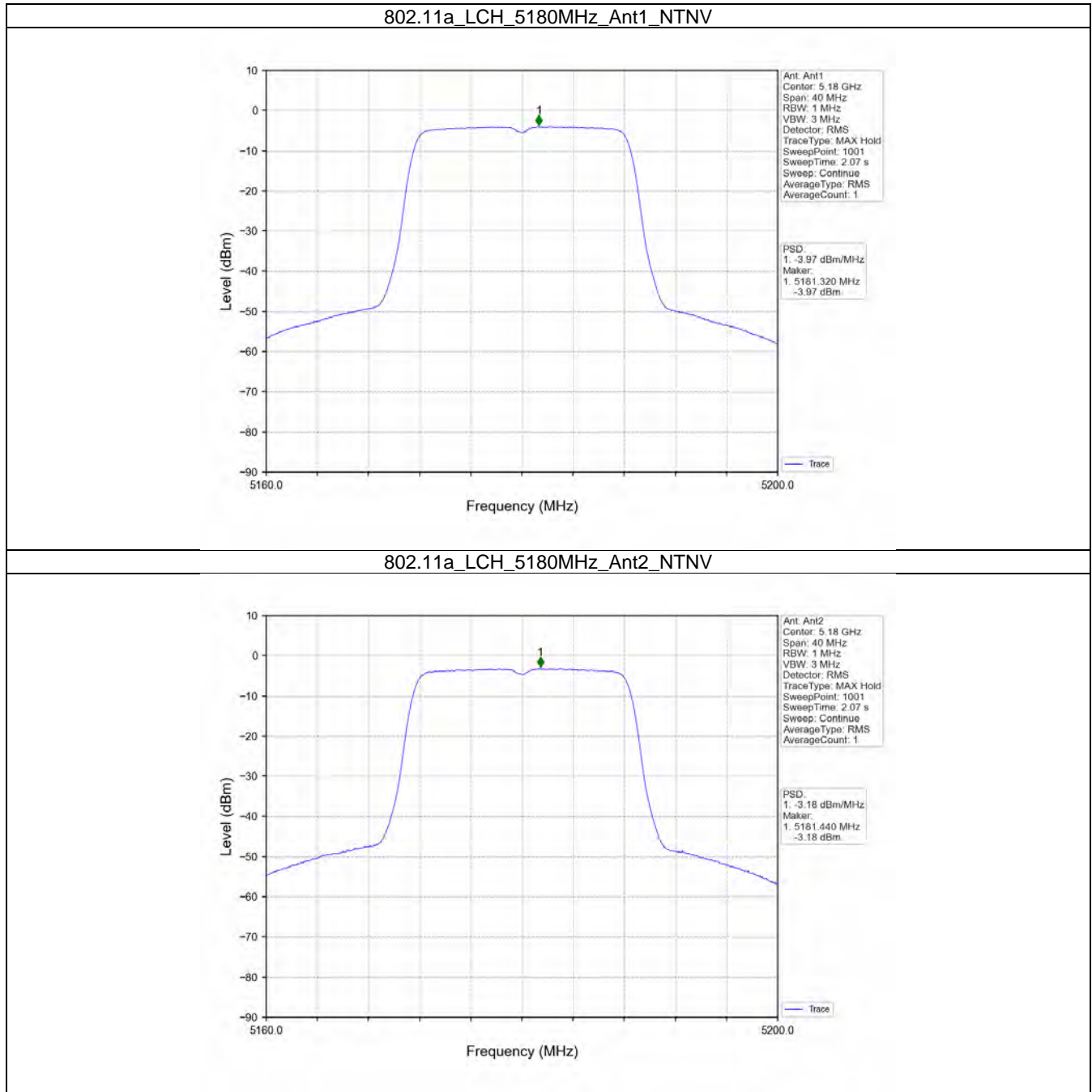
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4.1.2 Test Graph



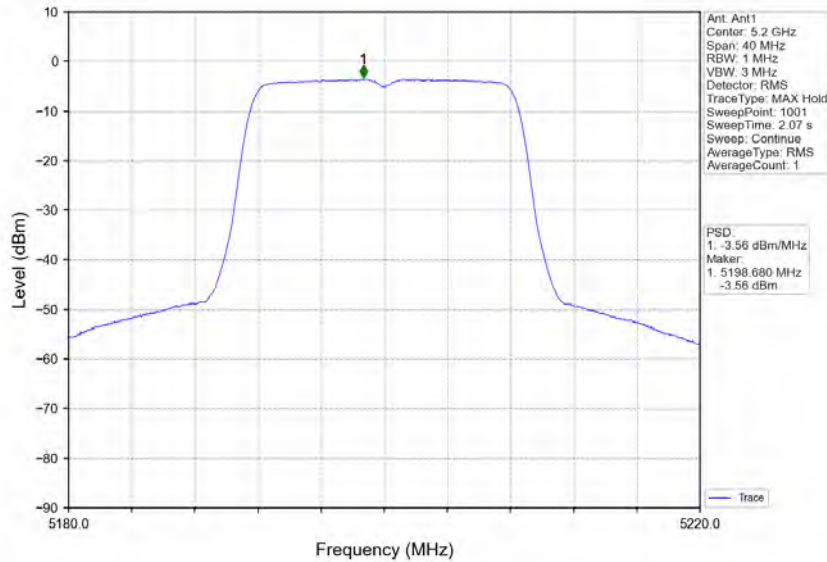
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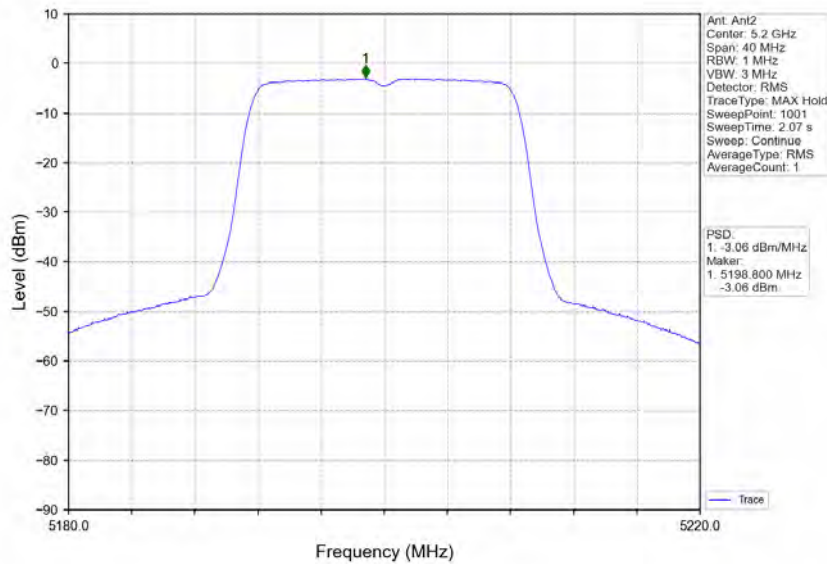
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



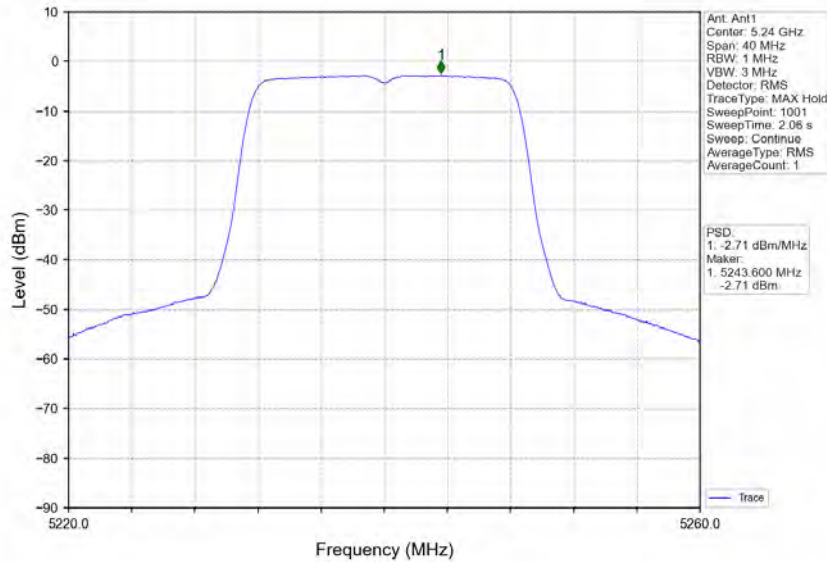
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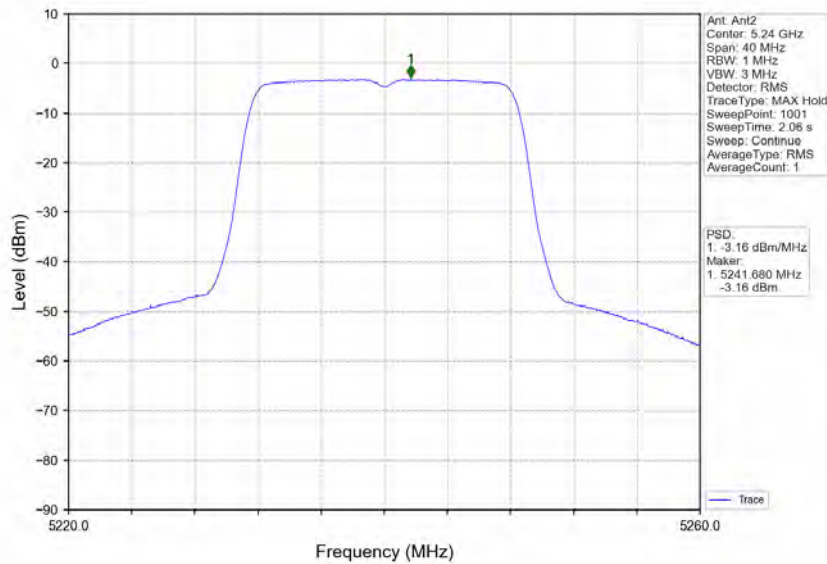
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV



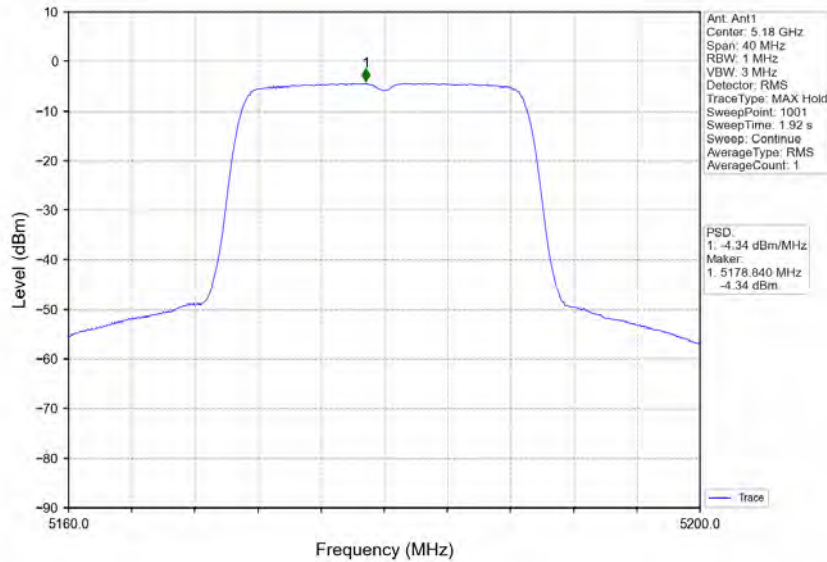
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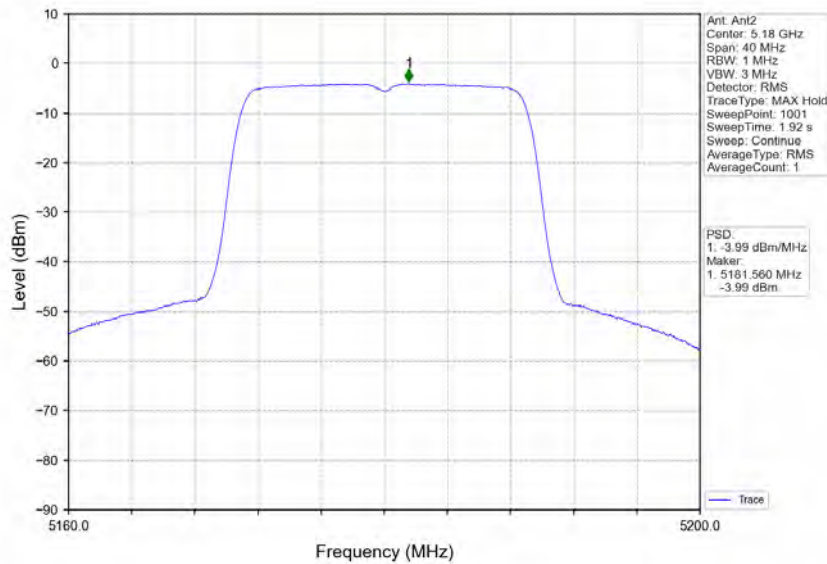
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



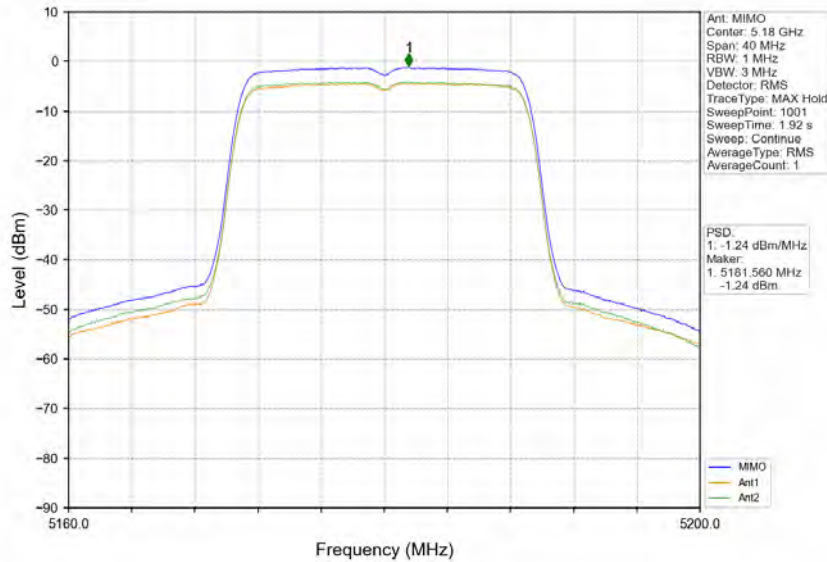
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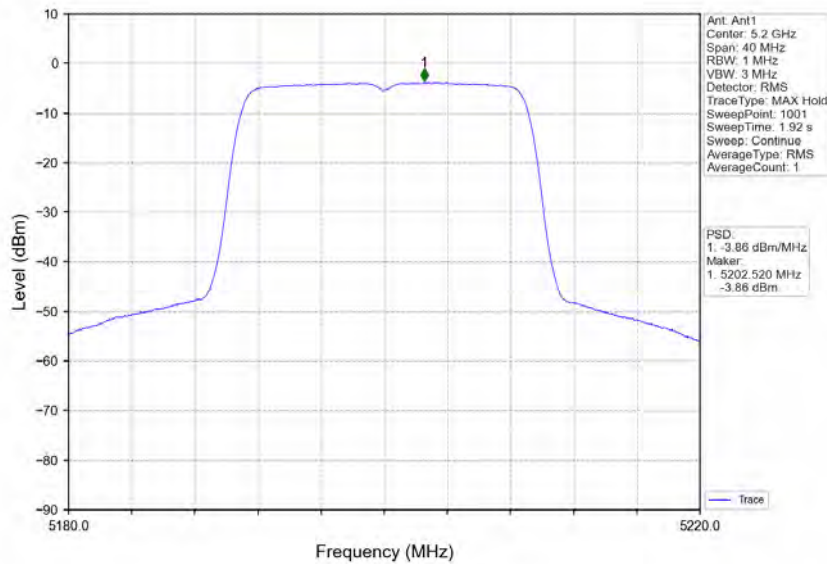
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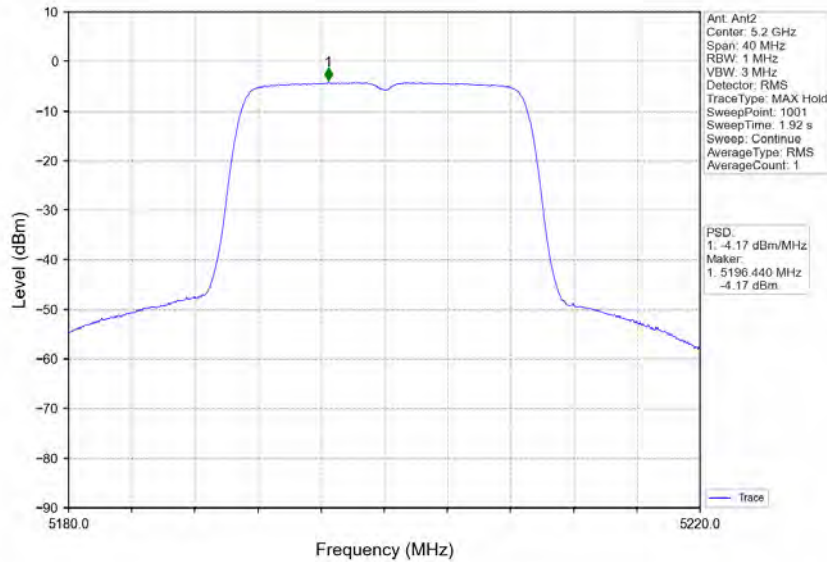


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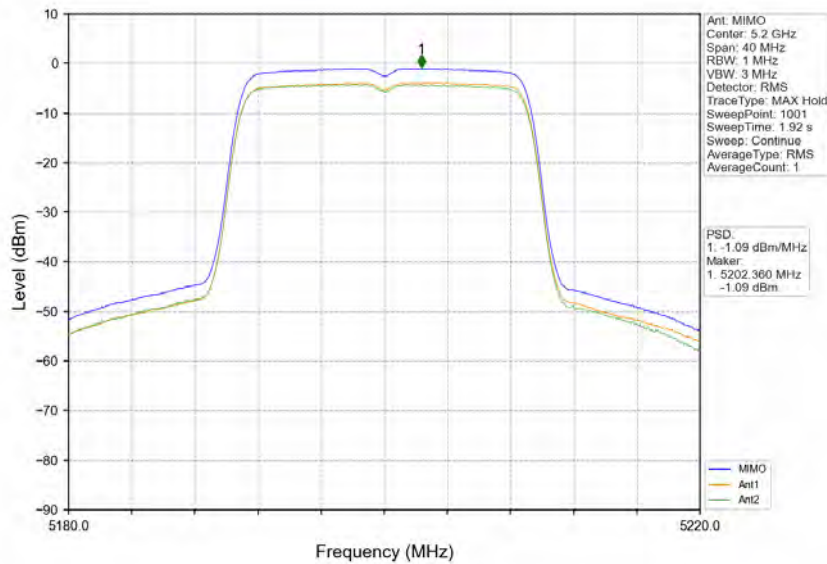
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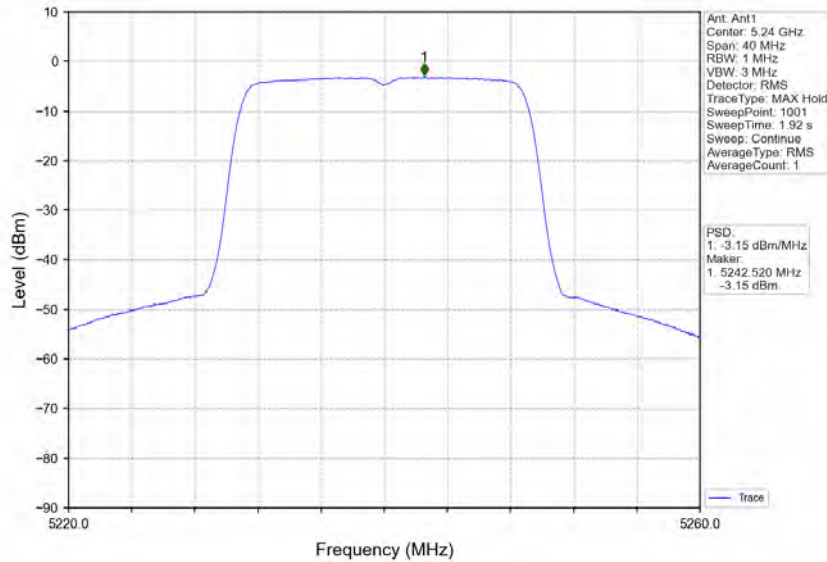
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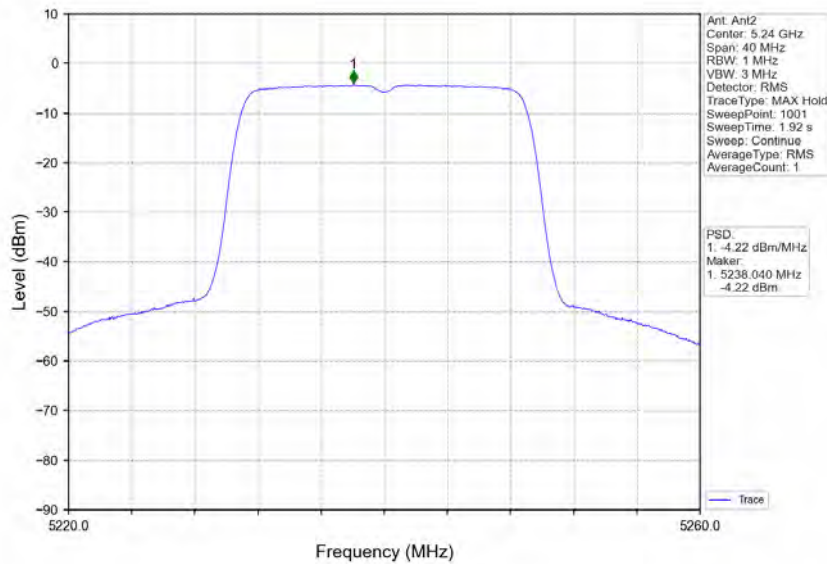
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



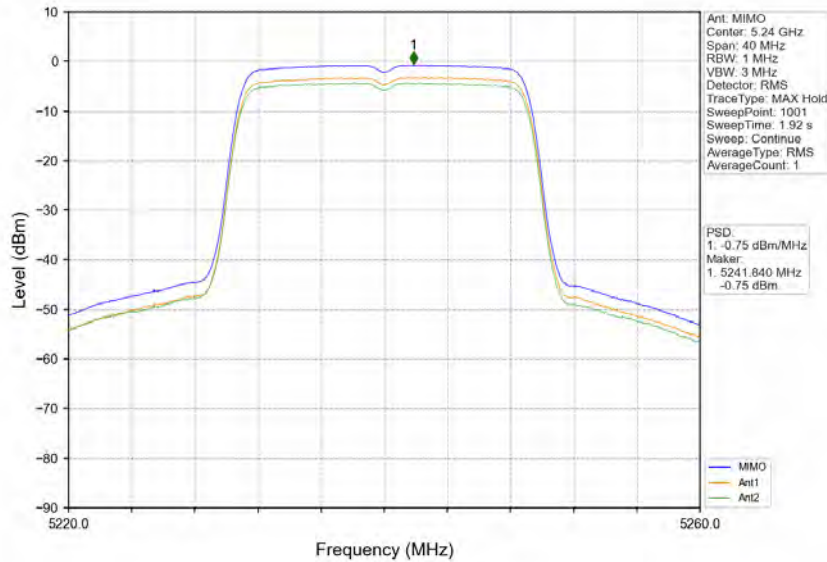
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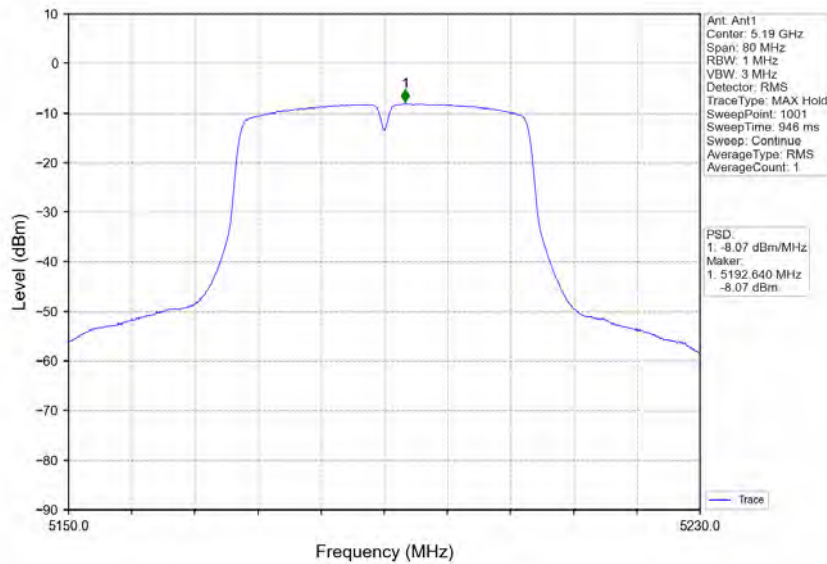
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802.11n(HT20)\_HCH\_5240MHz\_MIMO\_NTNV



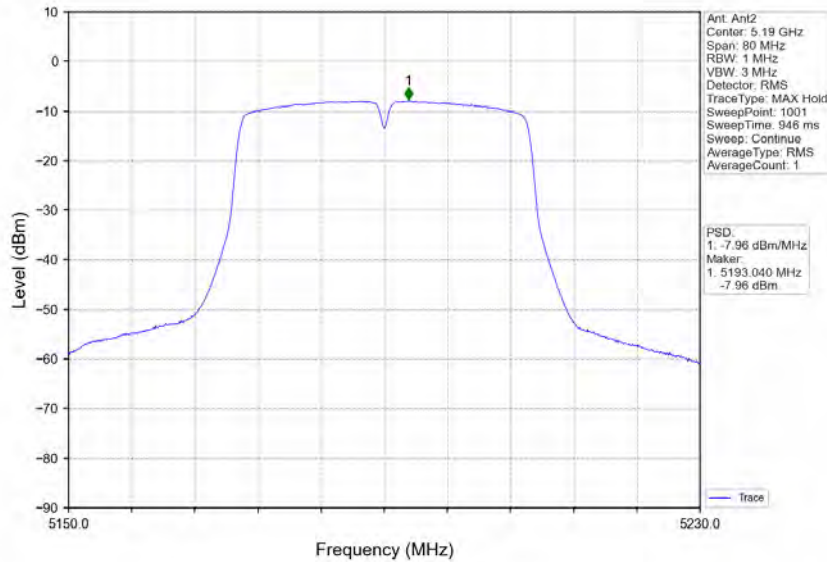
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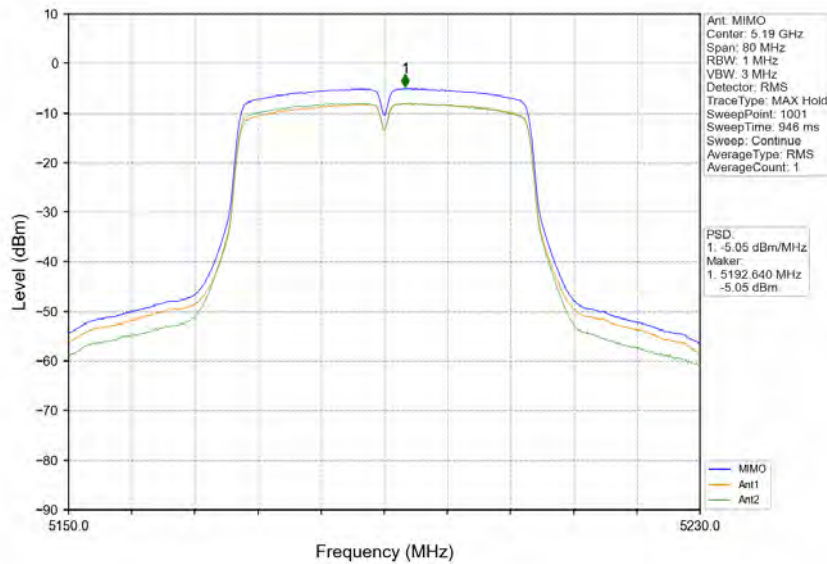
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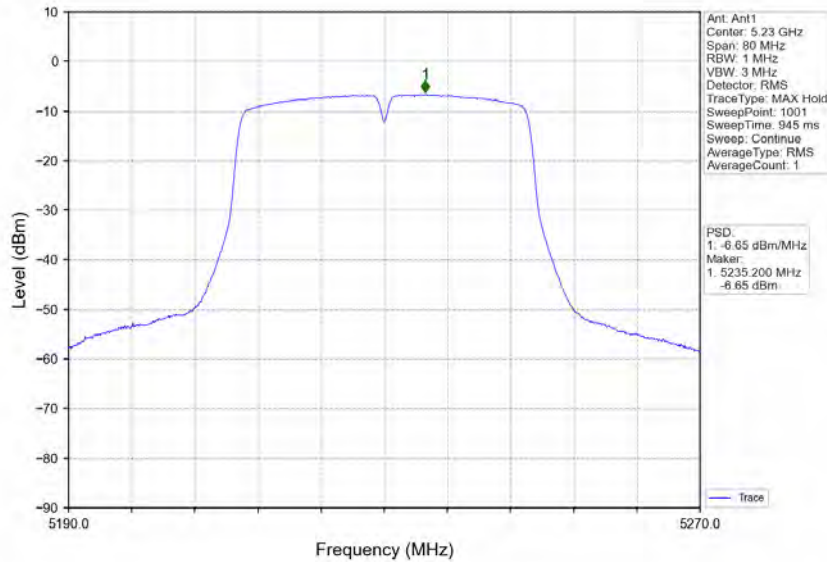
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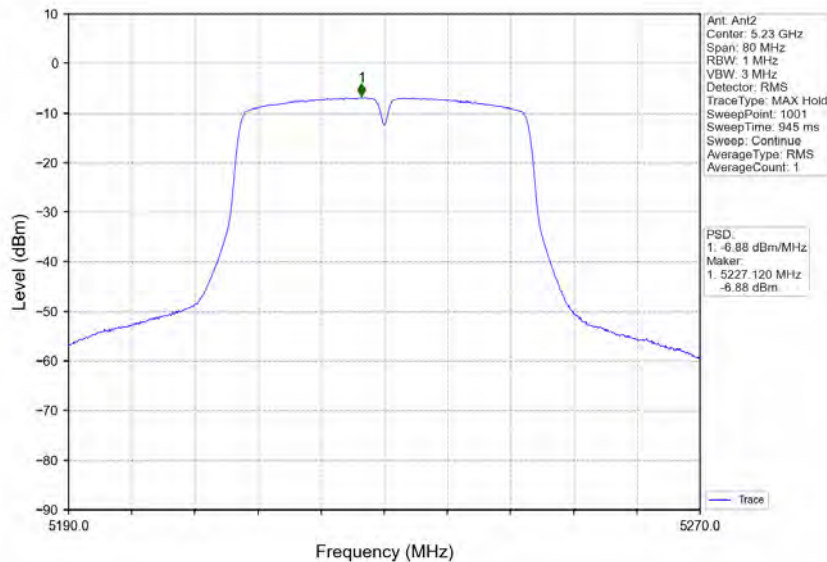
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802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



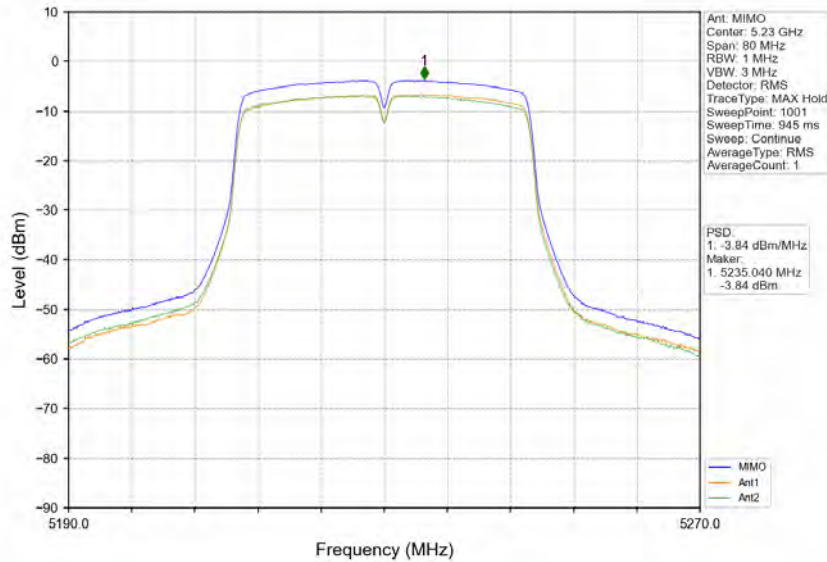
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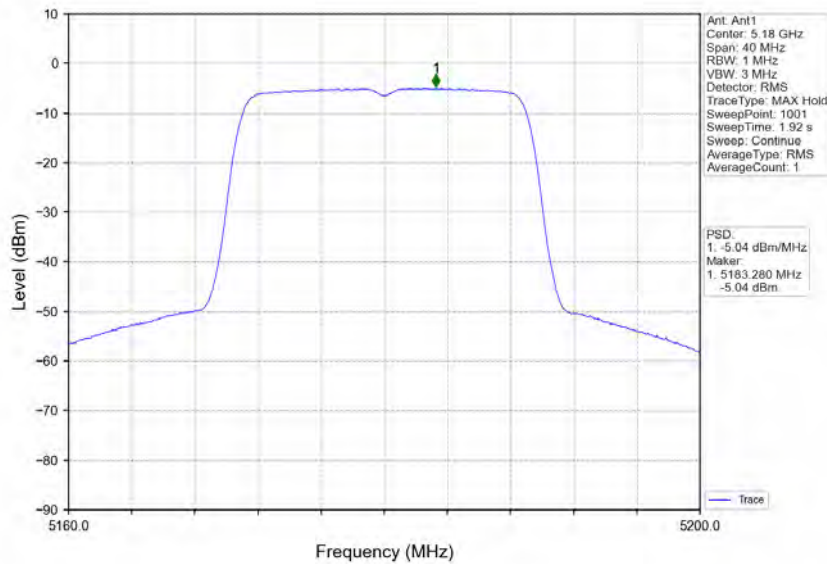
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802.11n(HT40)\_HCH\_5230MHz\_MIMO\_NTNV



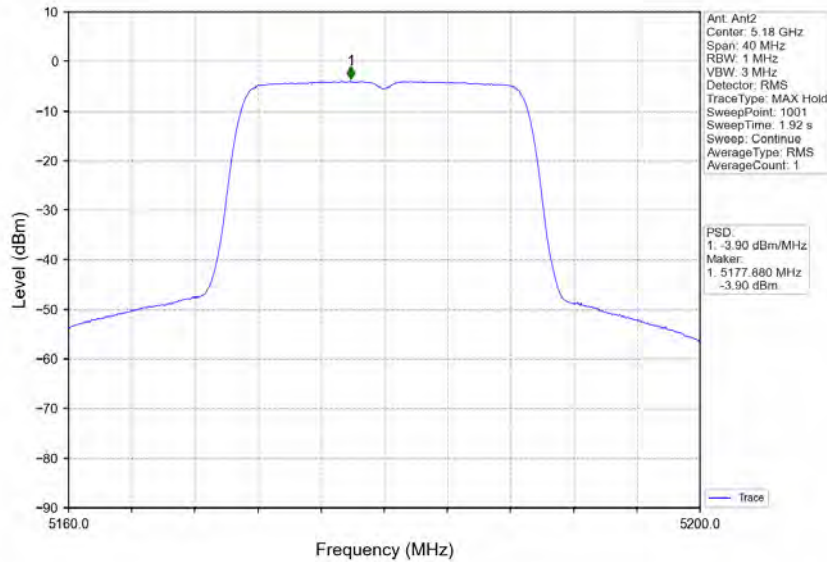
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



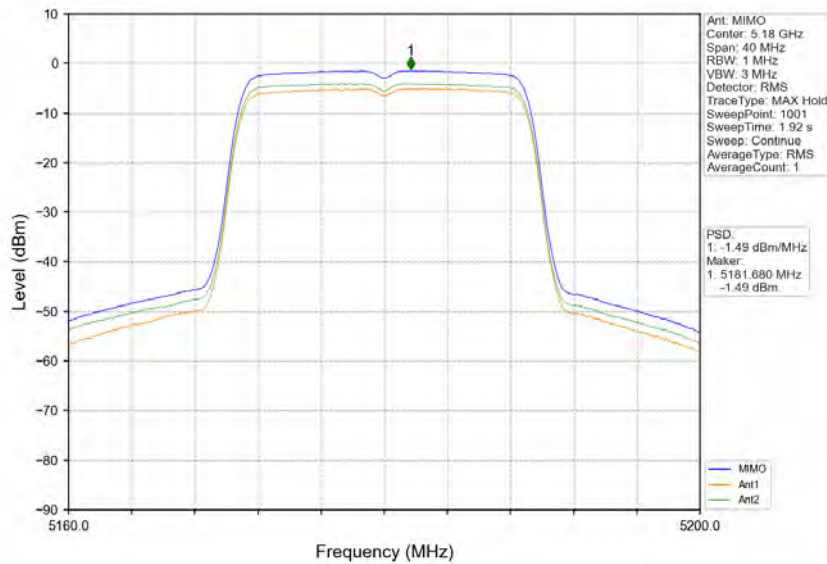
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802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_MIMO\_NTNV



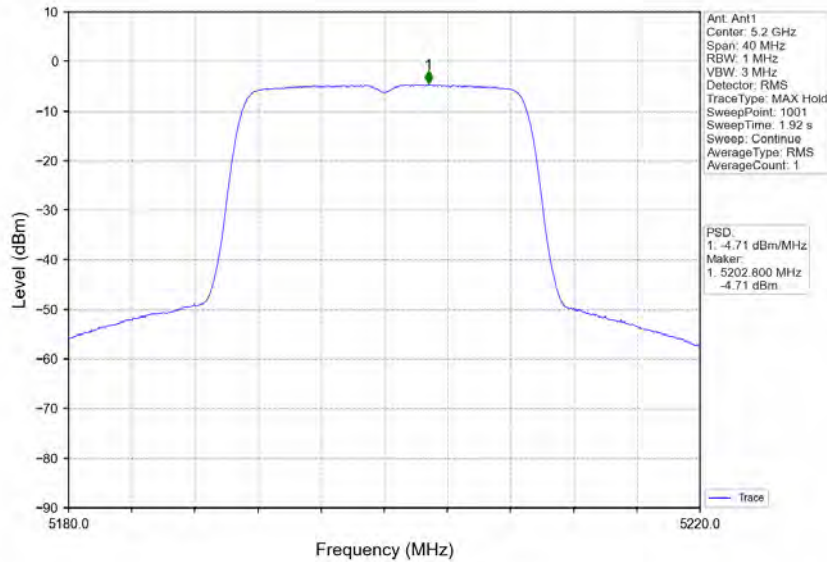
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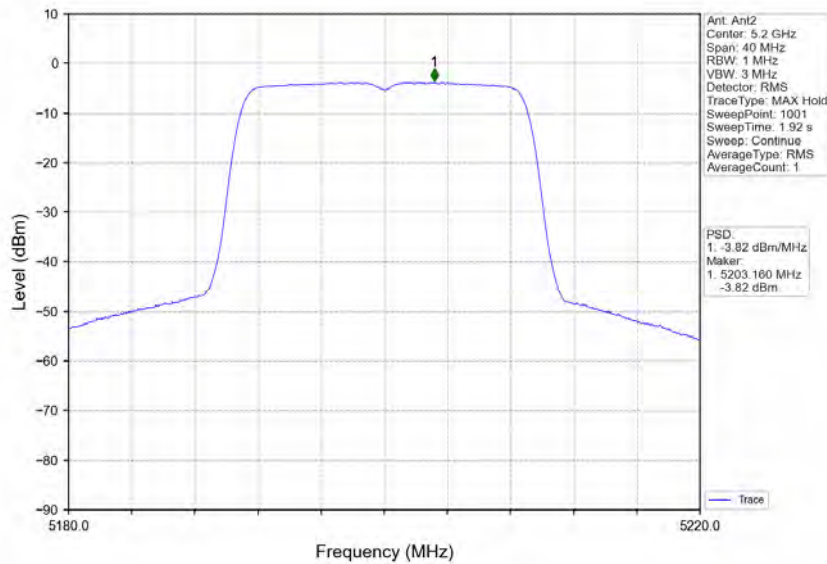
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



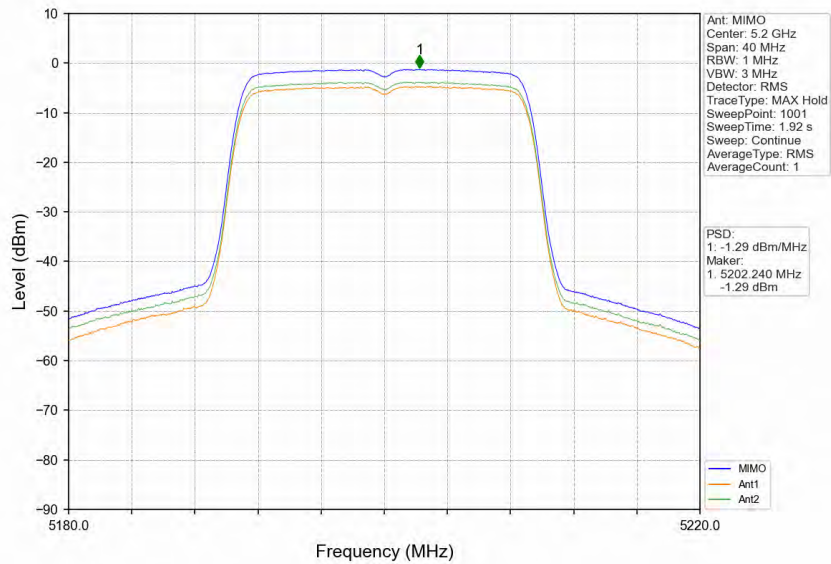
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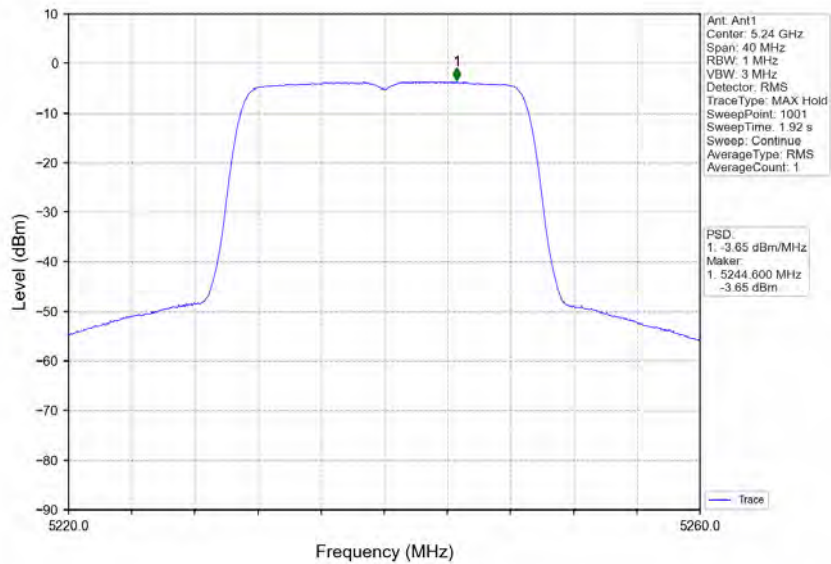
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802.11ac(VHT20)\_MCH\_5200MHz\_MIMO\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV

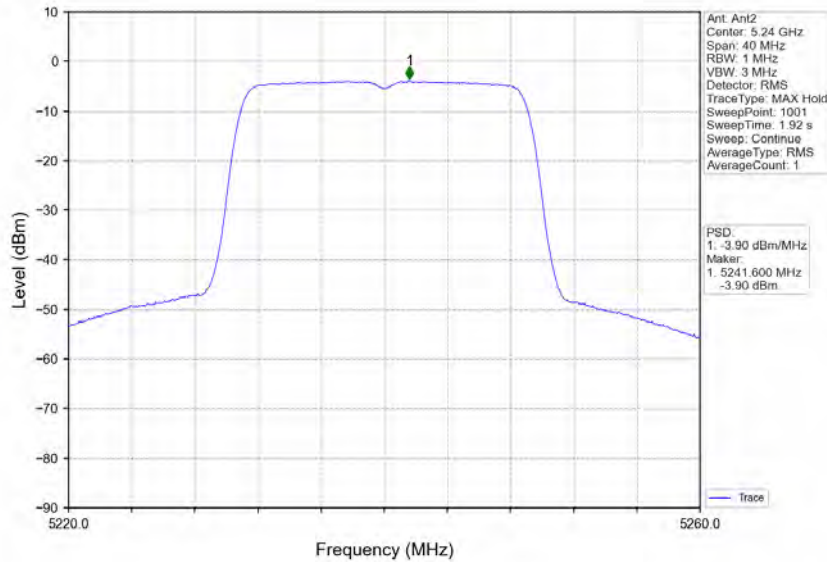


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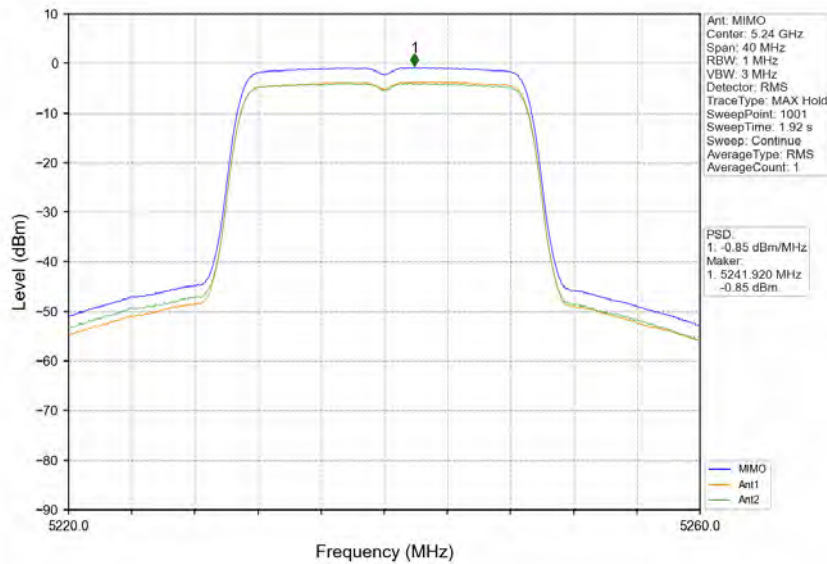
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802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_MIMO\_NTNV



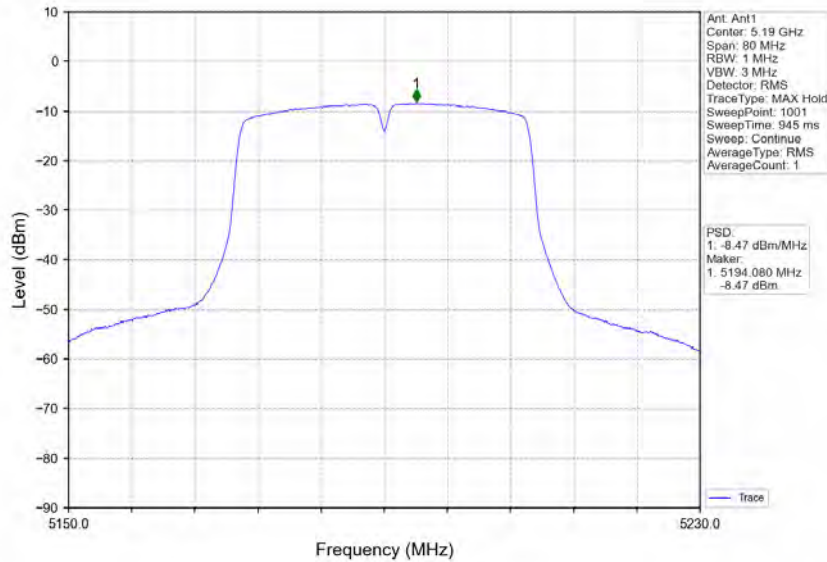
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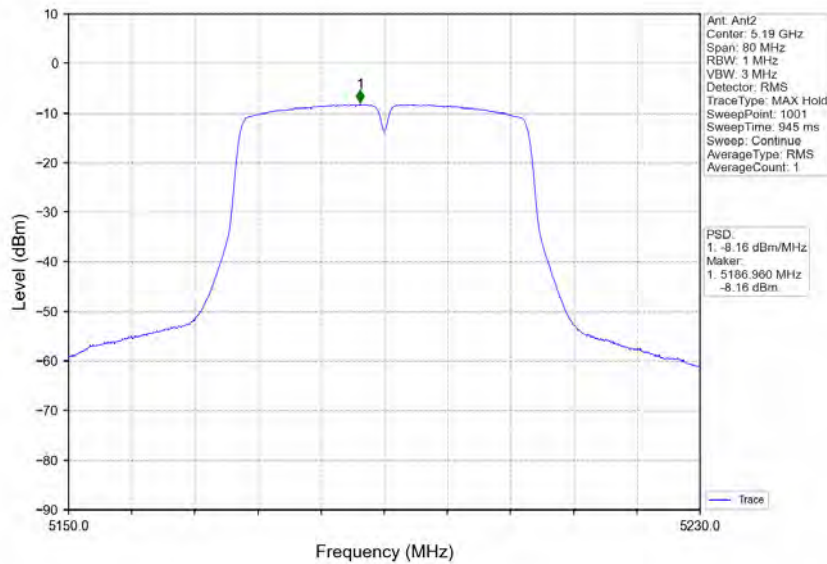
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802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



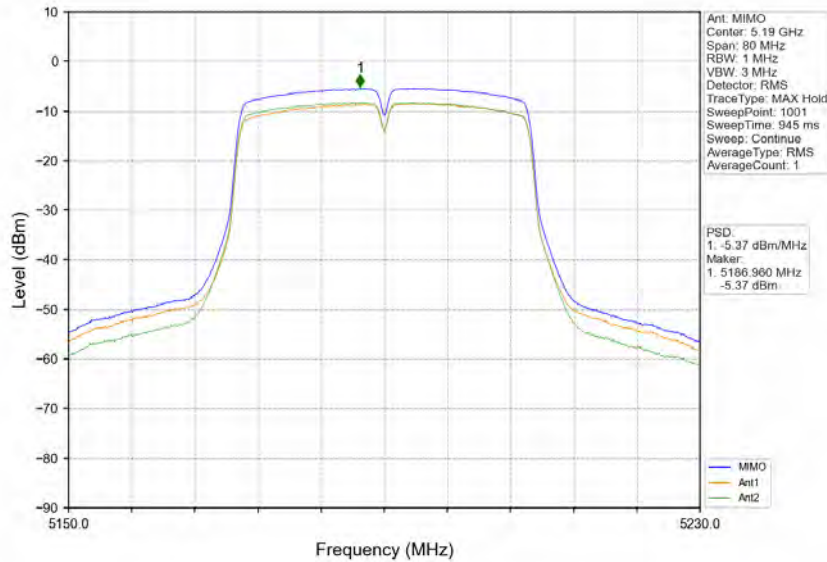
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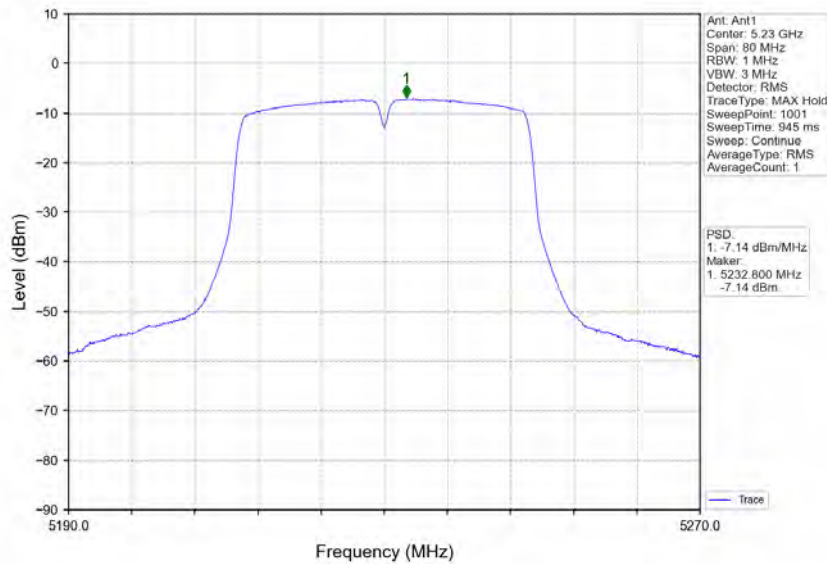
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802.11ac(VHT40)\_LCH\_5190MHz\_MIMO\_NTNV



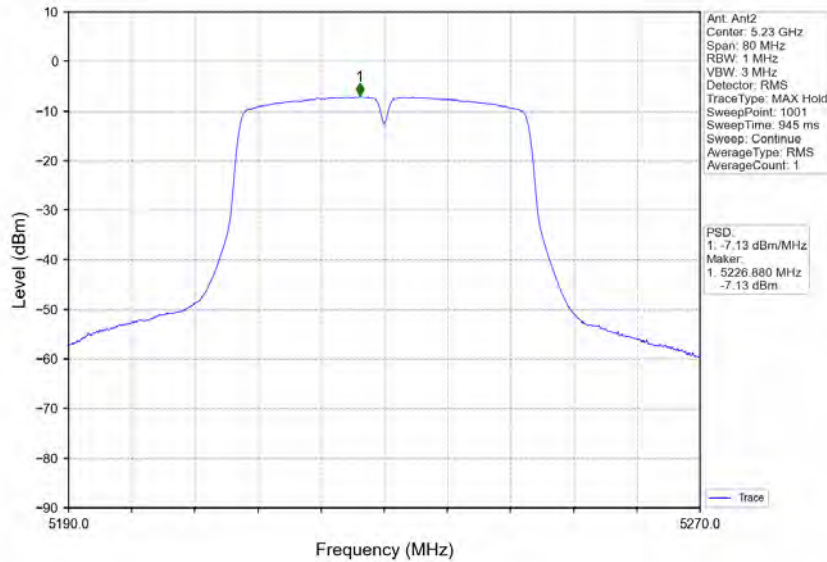
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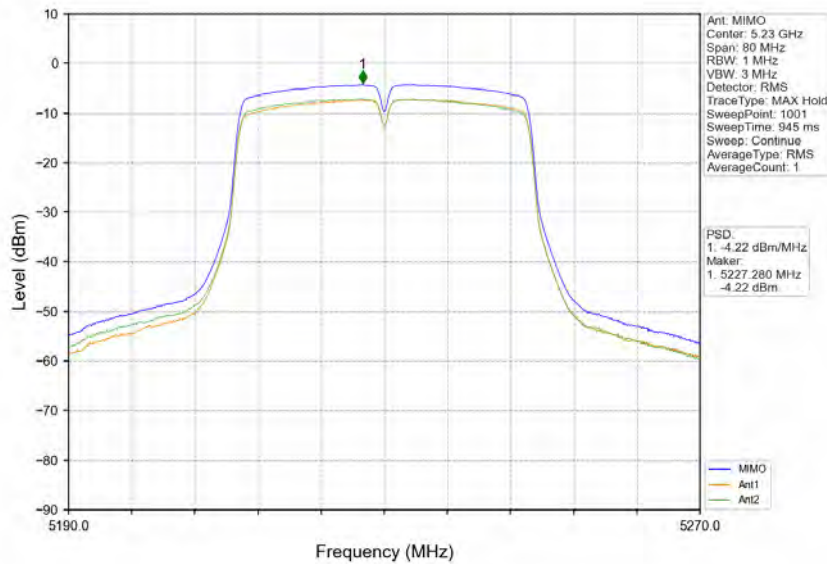
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_MIMO\_NTNV



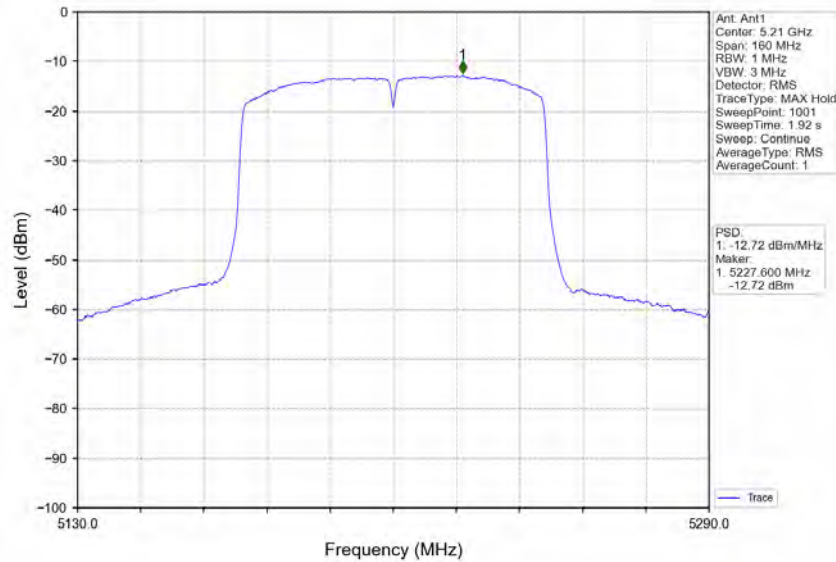
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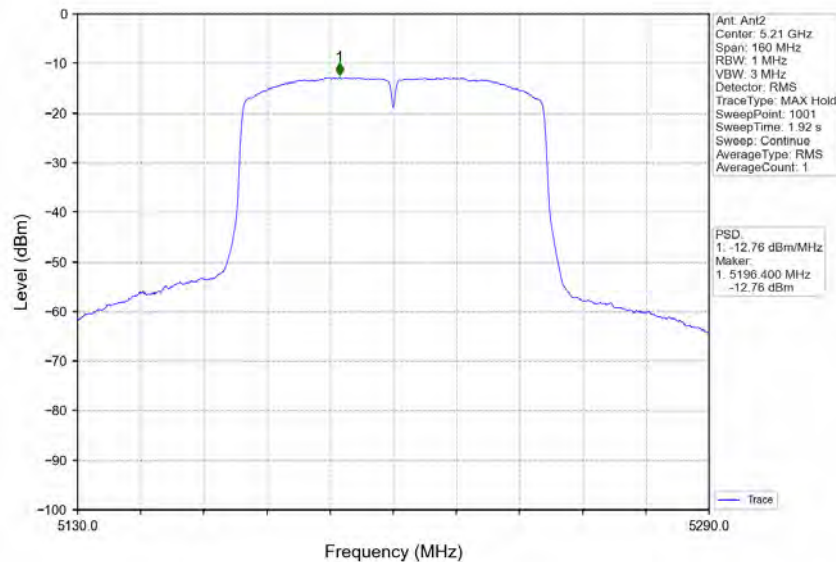
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



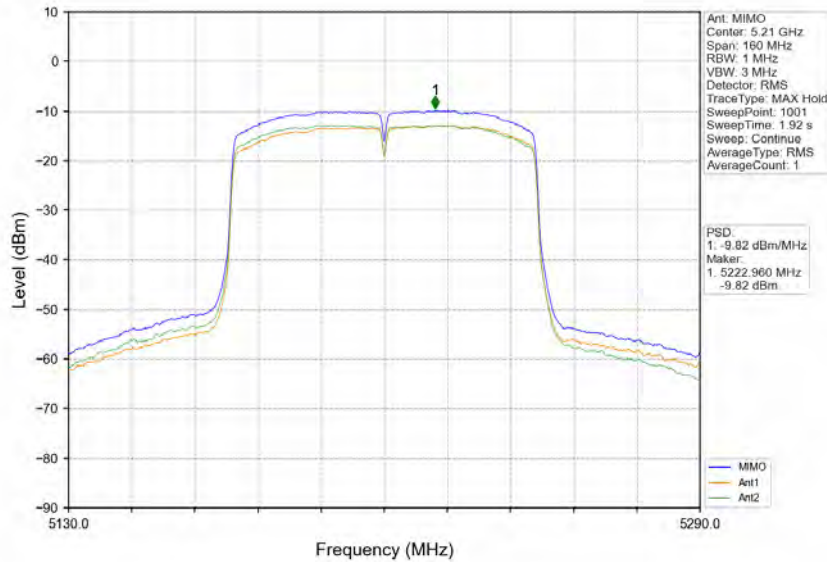
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802.11ac(VHT80)\_MCH\_5210MHz\_MIMO\_NTNV



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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	-5.62	-5.39	/	<=30	Pass
		5785	-5.56	-5.75	/	<=30	Pass
		5825	-4.97	-6.03	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-6.15	-6.52	-3.40	<=29.65	Pass
		5785	-5.99	-6.62	-3.33	<=29.65	Pass
		5825	-5.67	-6.77	-3.27	<=29.65	Pass
802.11n (HT40)	MIMO	5755	-8.83	-8.99	-5.97	<=29.65	Pass
		5795	-9.02	-9.50	-6.29	<=29.65	Pass
802.11ac (VHT20)	MIMO	5745	-6.20	-6.19	-3.22	<=29.65	Pass
		5785	-6.20	-6.39	-3.30	<=29.65	Pass
		5825	-5.52	-6.67	-3.11	<=29.65	Pass
802.11ac (VHT40)	MIMO	5755	-9.18	-9.31	-6.31	<=29.65	Pass
		5795	-9.39	-9.71	-6.56	<=29.65	Pass
802.11ac (VHT80)	MIMO	5775	-12.86	-12.77	-9.81	<=29.65	Pass

Note1: Antenna Gain: Ant1: 3.06dBi; Ant2: 3.60dBi;



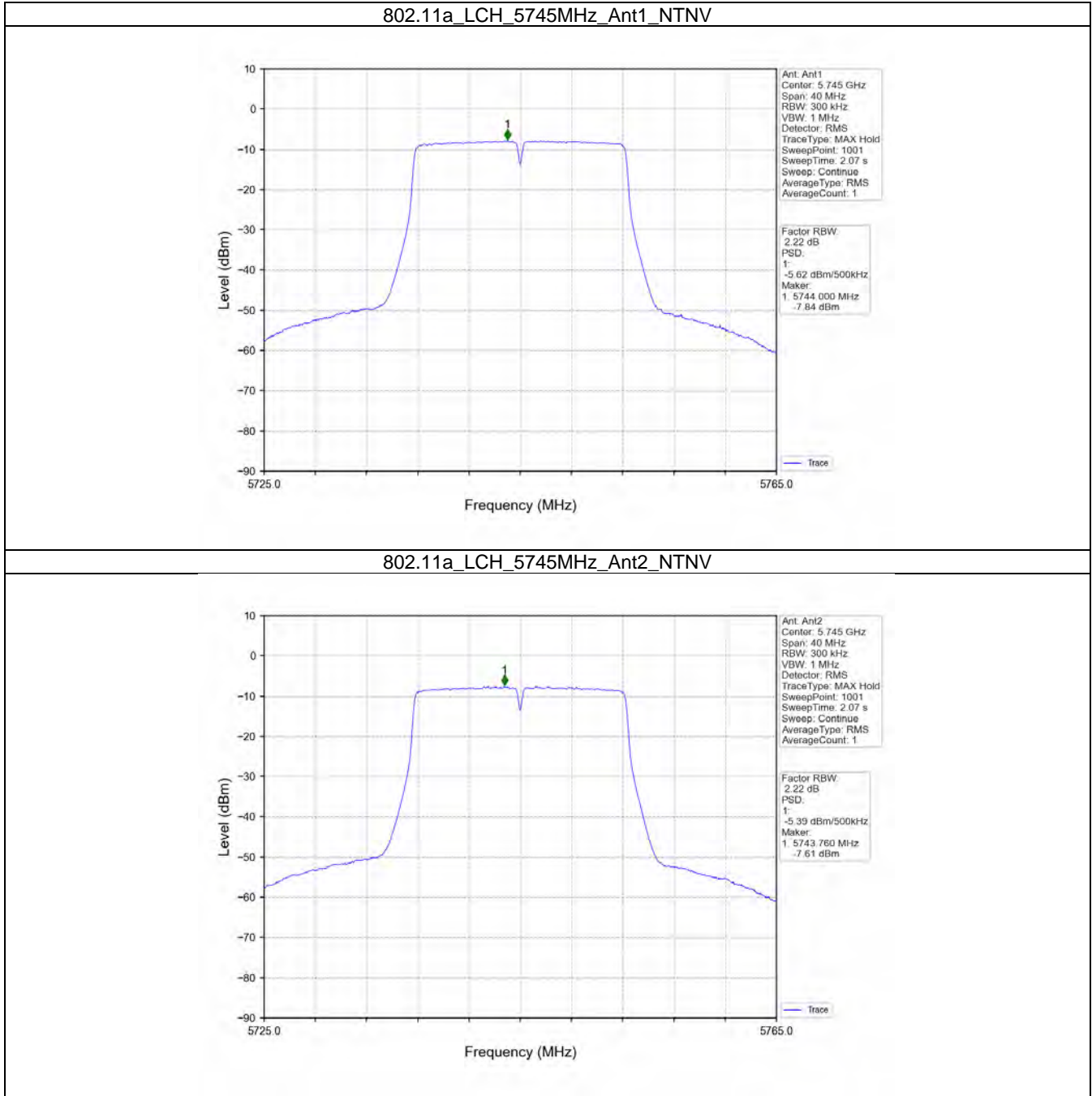
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4.2.2 Test Graph



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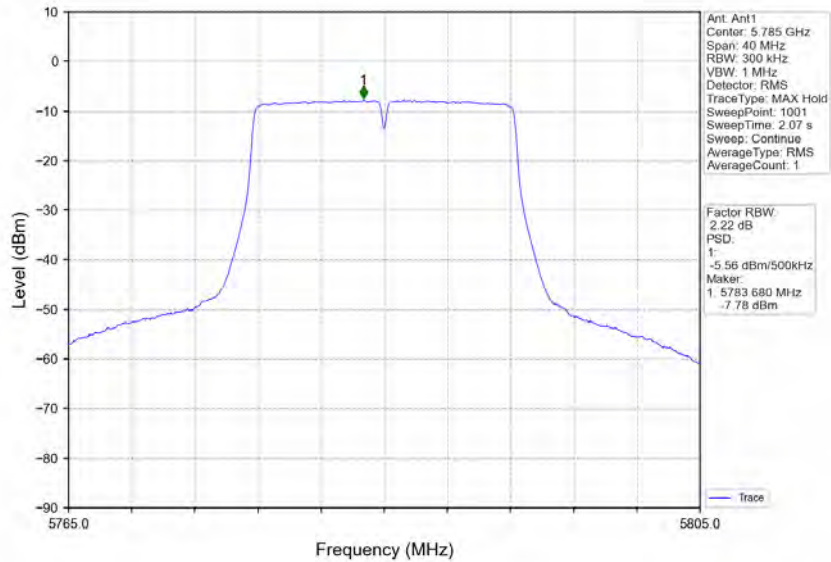
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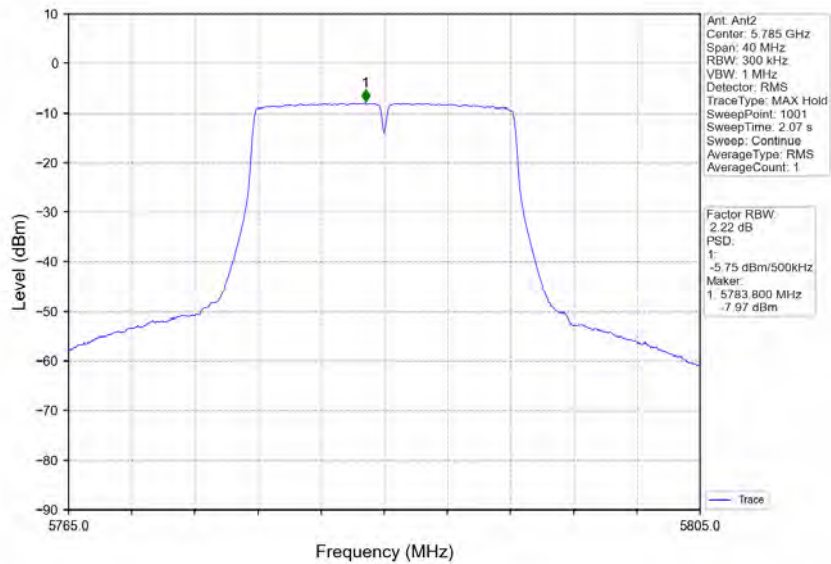
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



802.11a\_MCH\_5785MHz\_Ant2\_NTNV



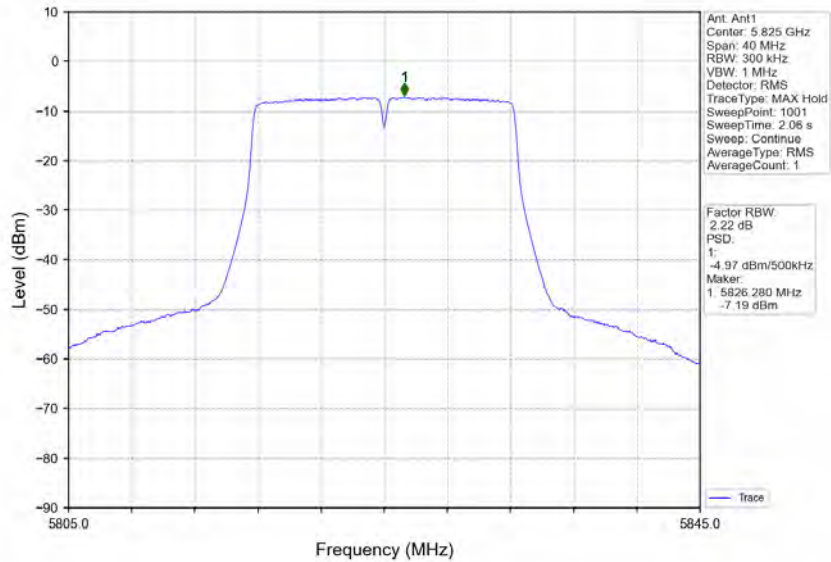
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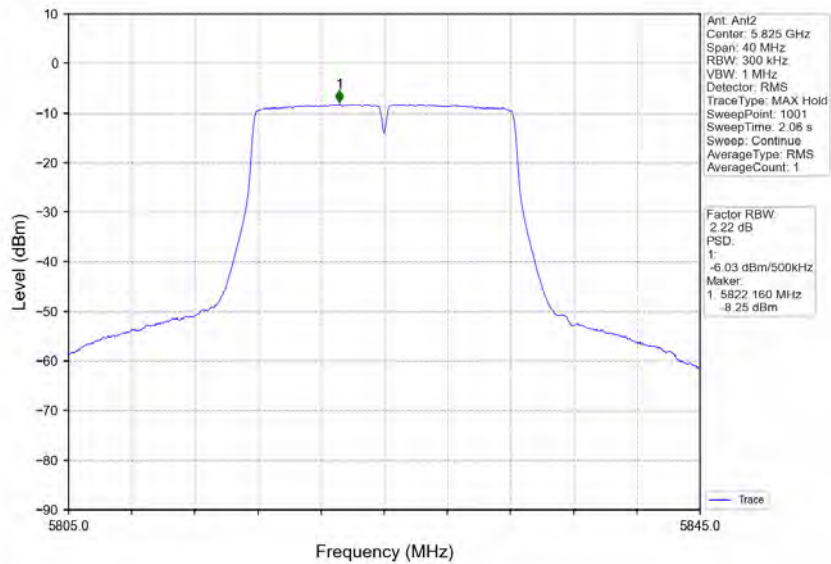
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant2\_NTNV



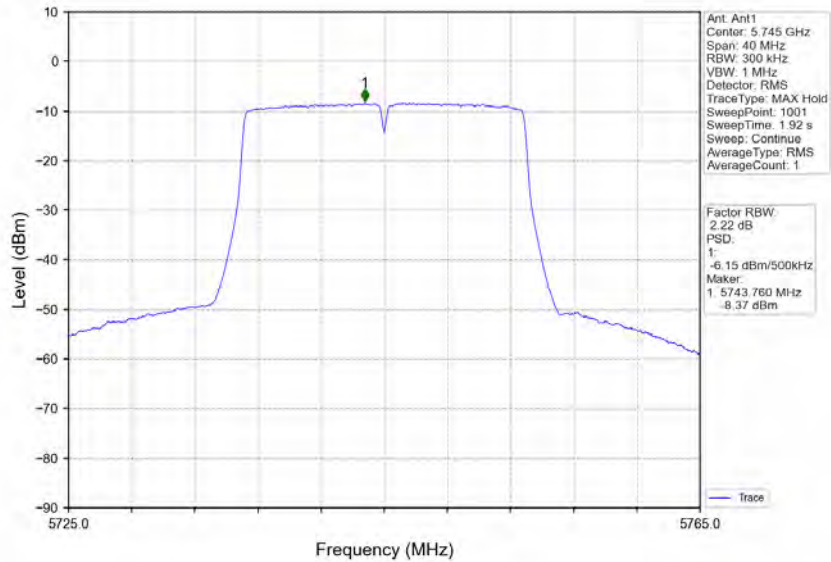
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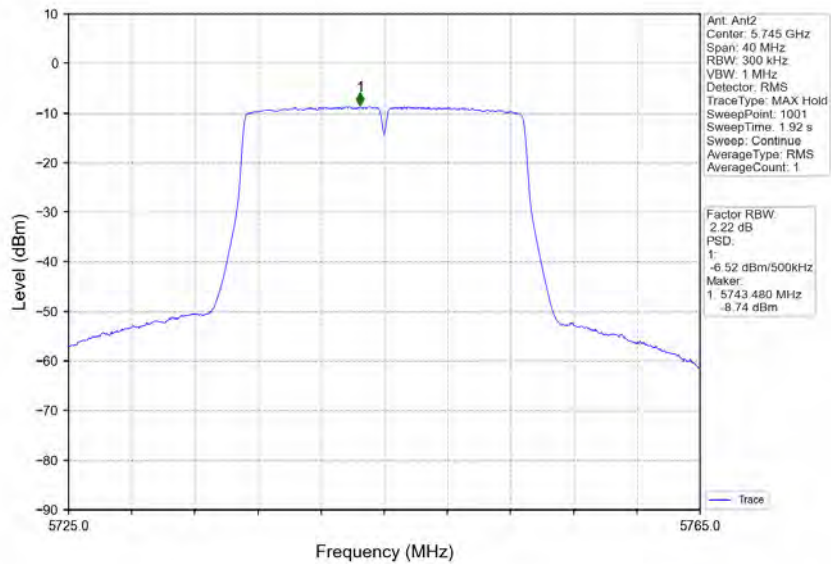
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802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant2\_NTNV



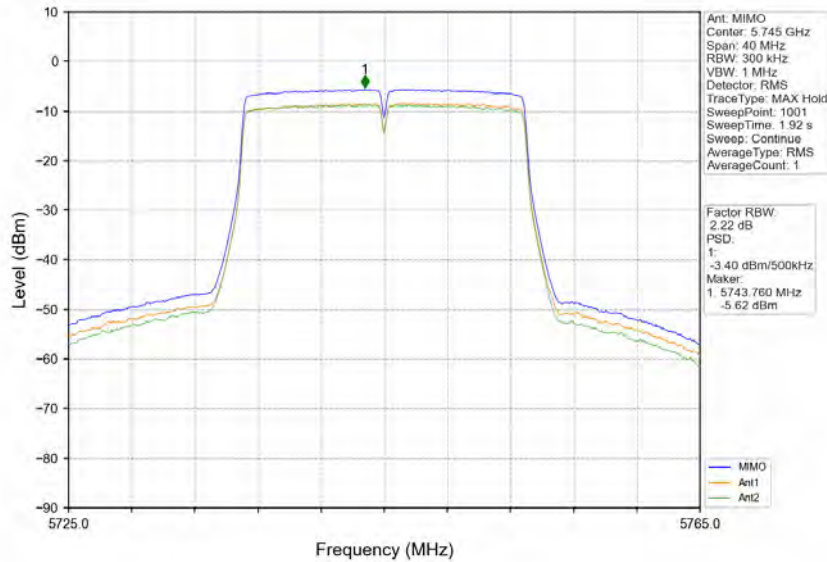
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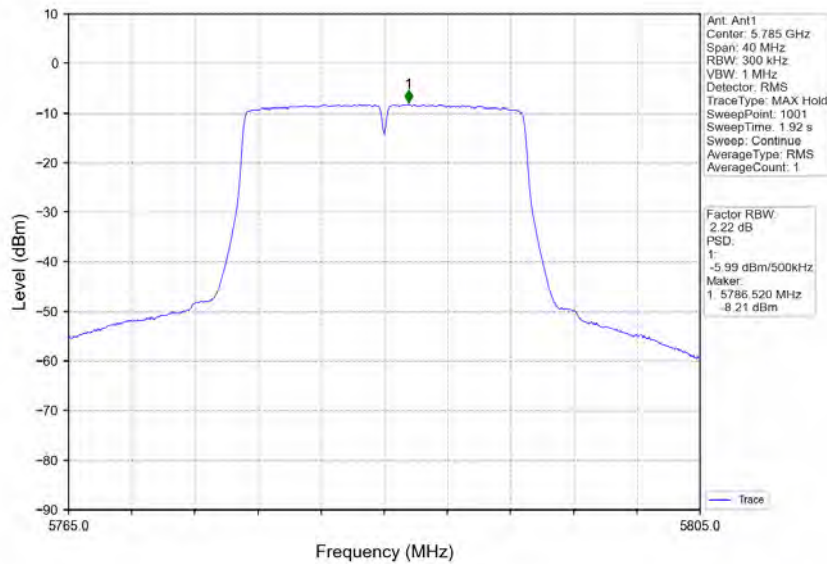
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



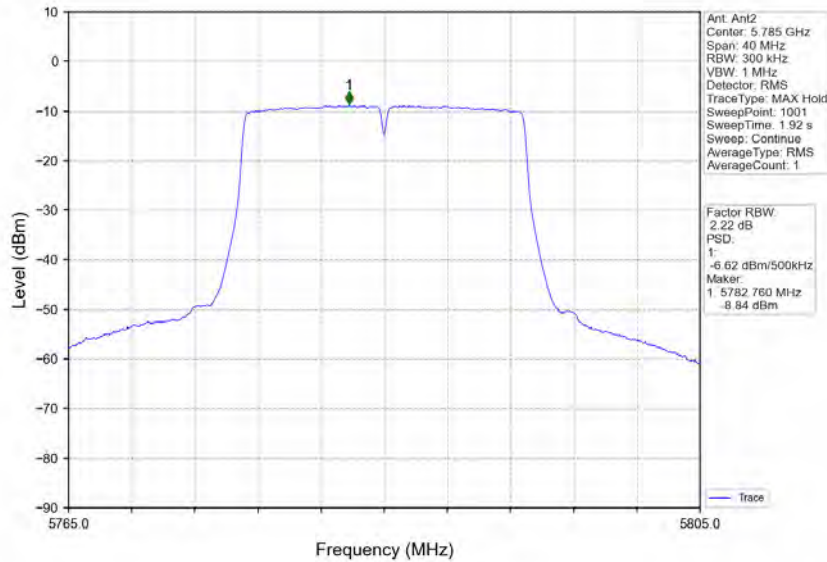
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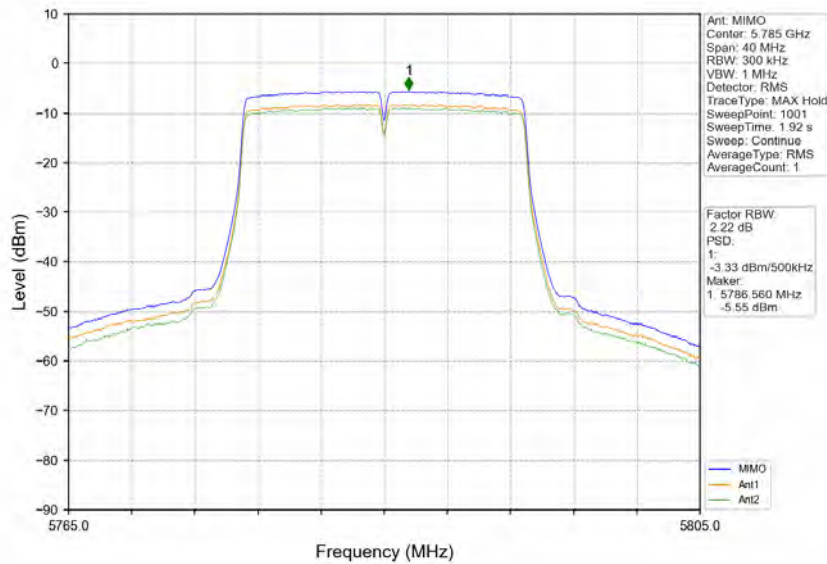
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802.11n(HT20)\_MCH\_5785MHz\_MIMO\_NTNV



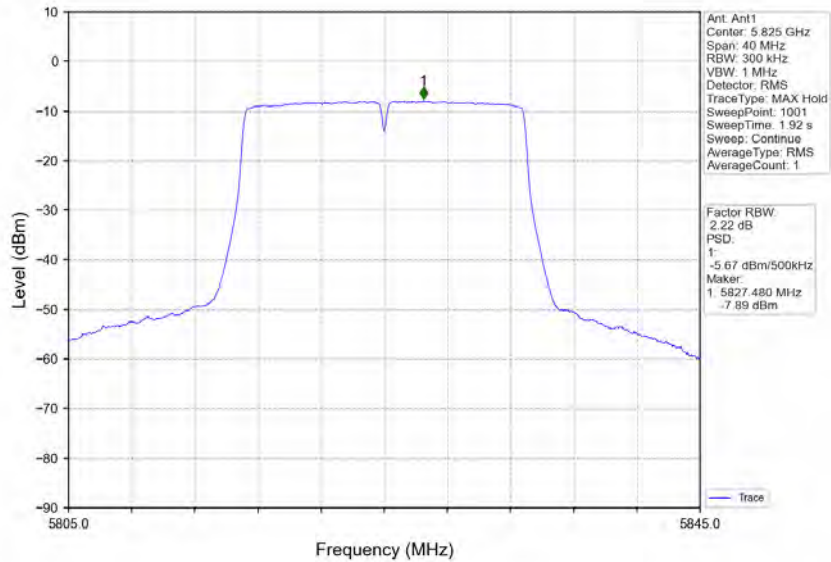
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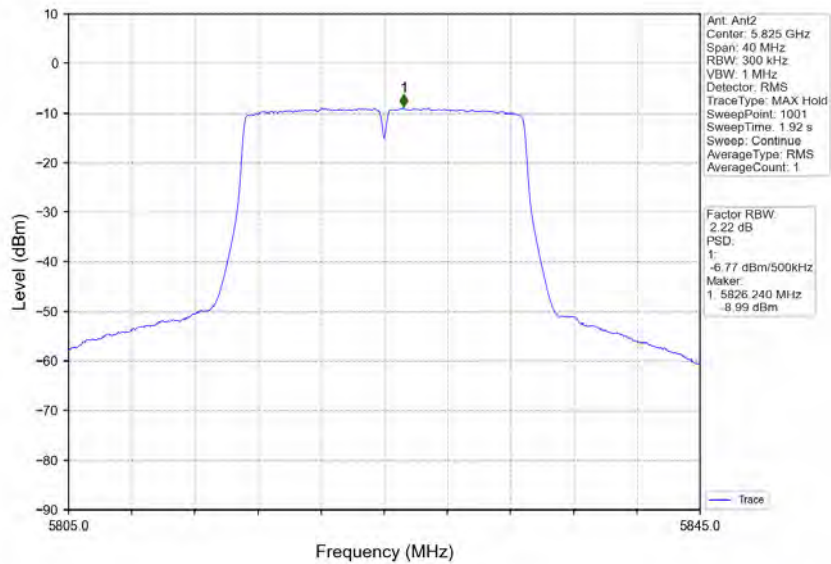
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802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



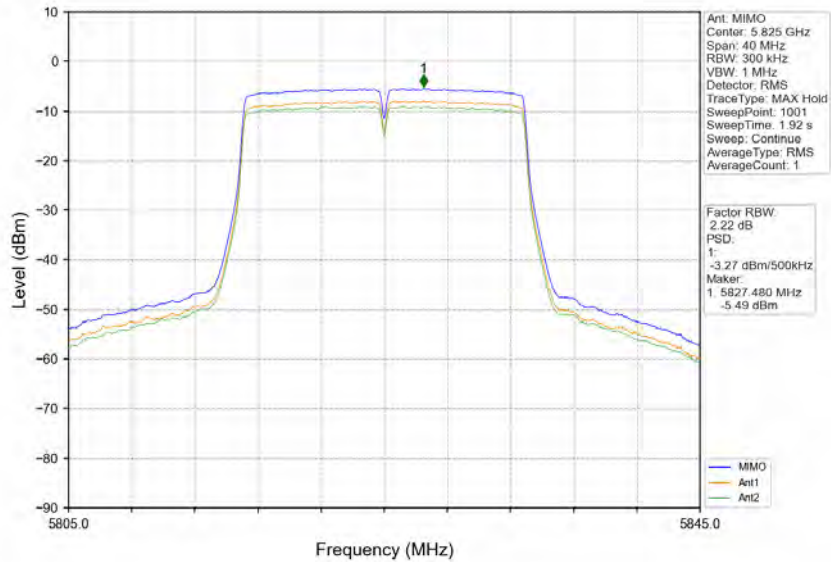
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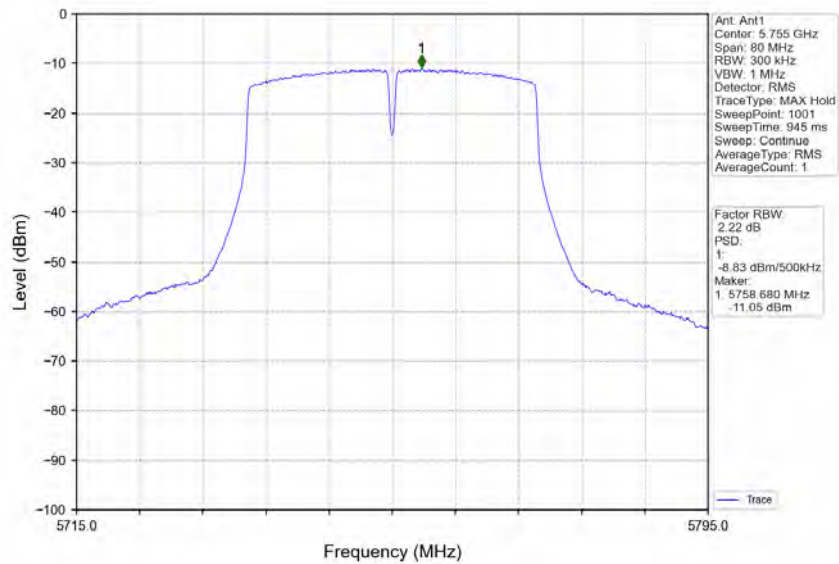
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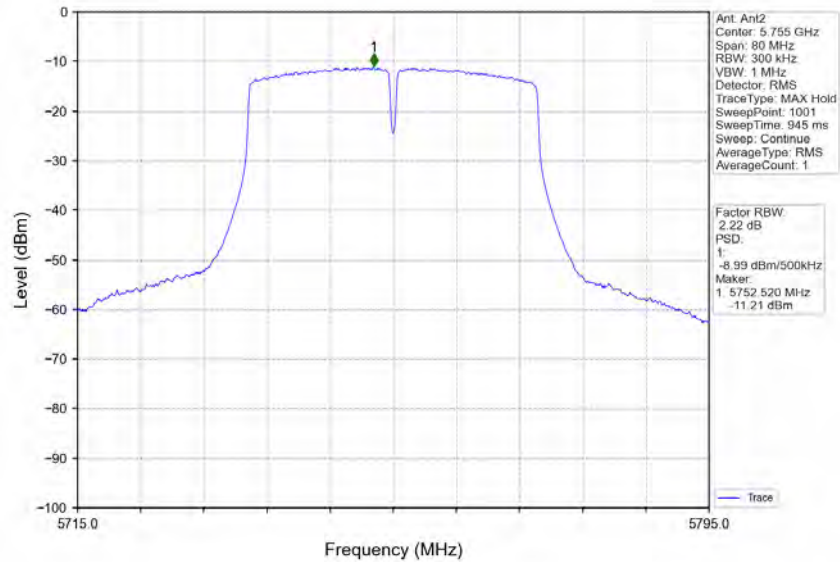
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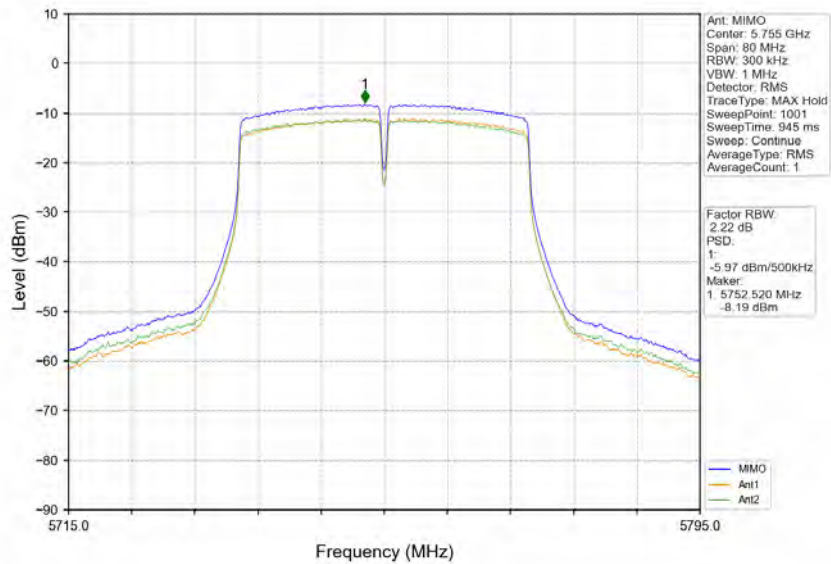
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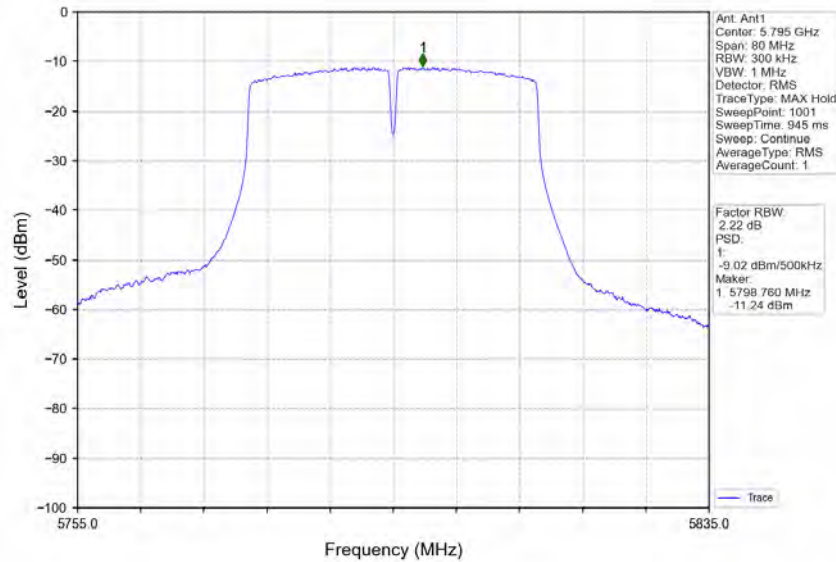
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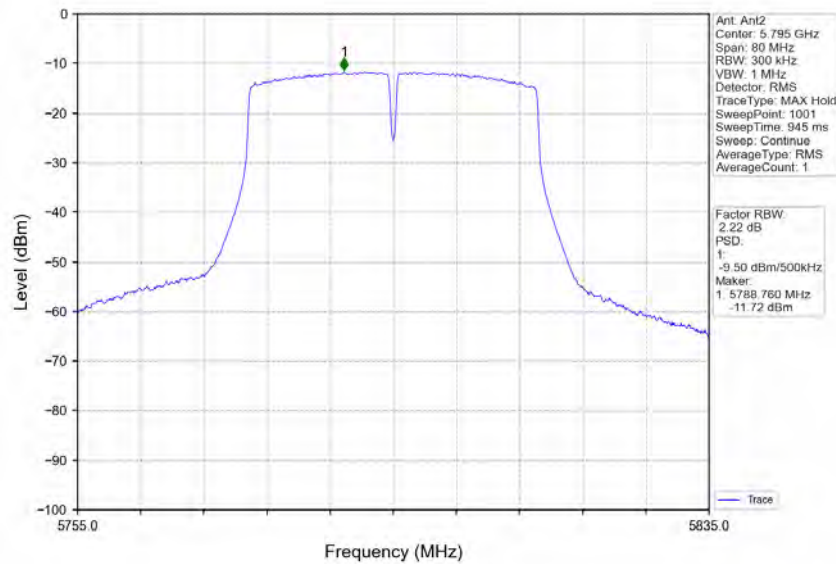
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



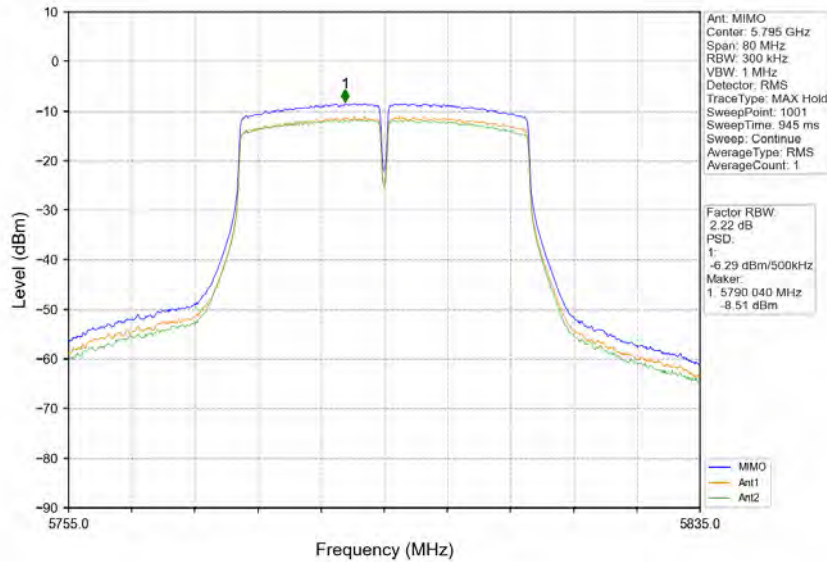
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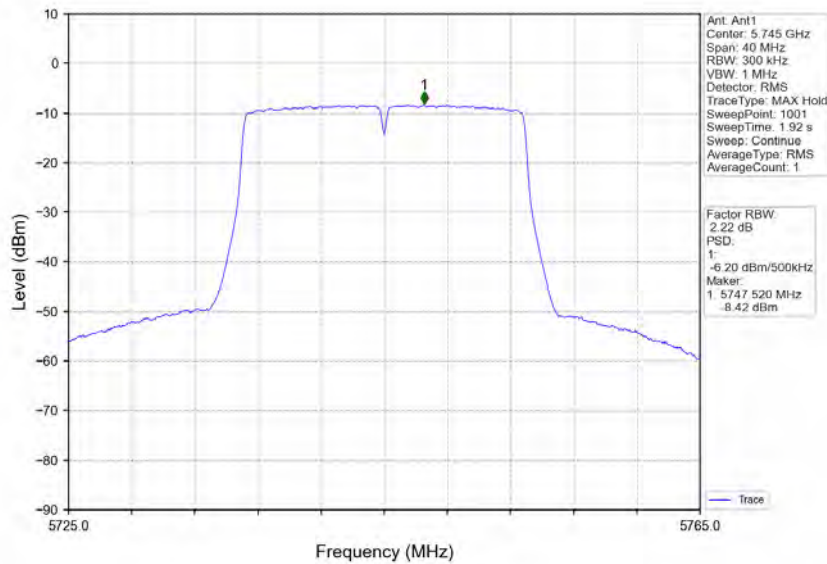
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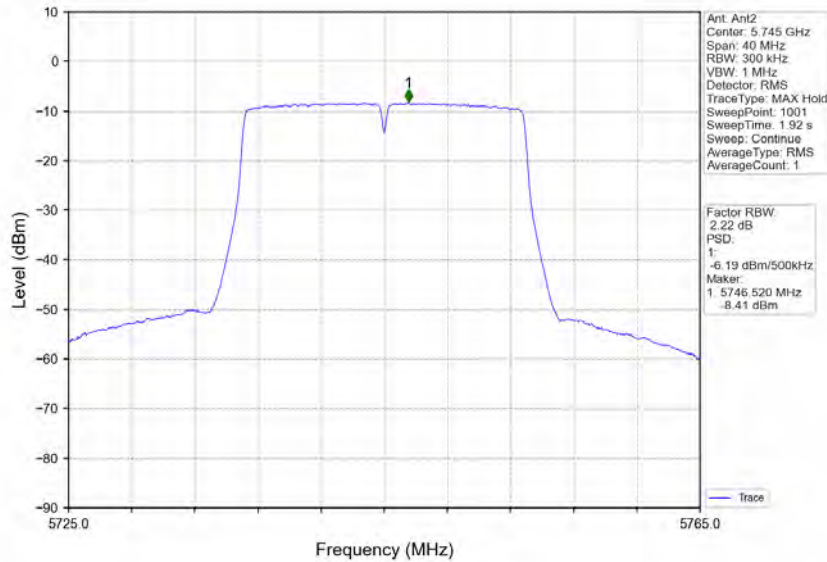
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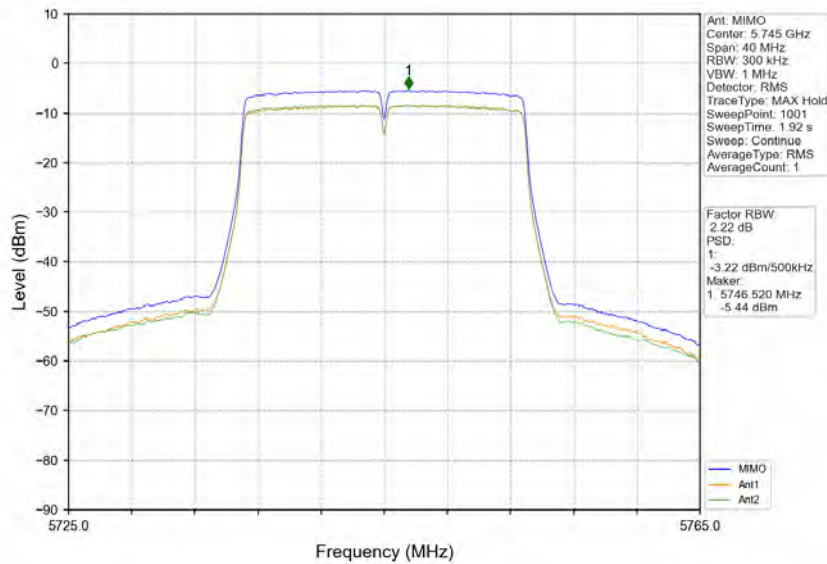
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant2\_NTNV



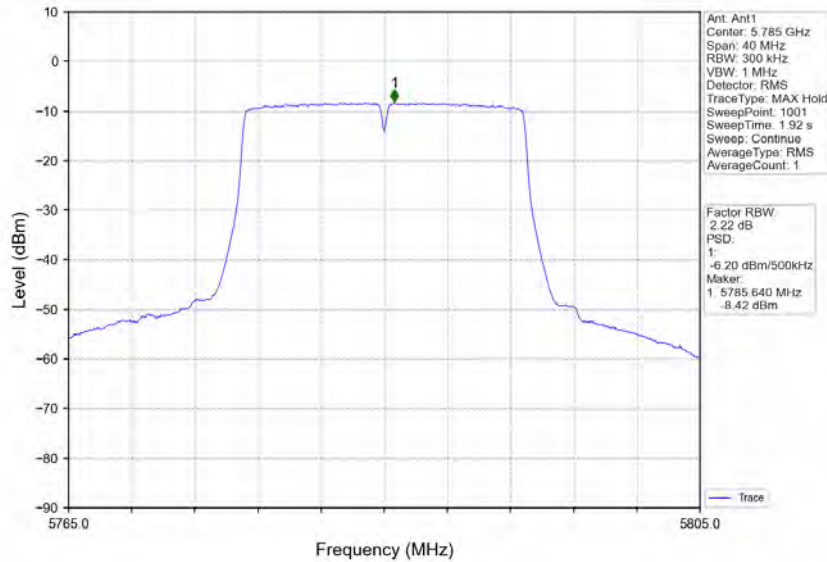
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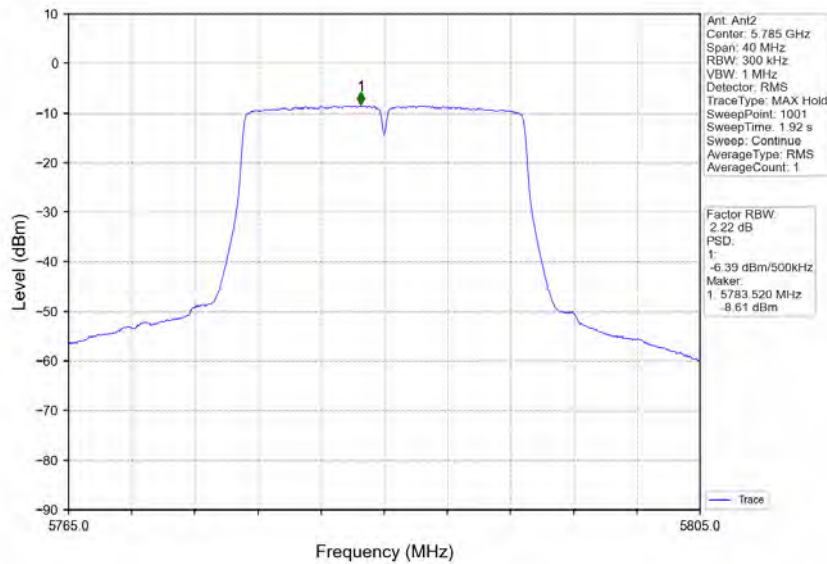
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802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5785MHz\_Ant2\_NTNV



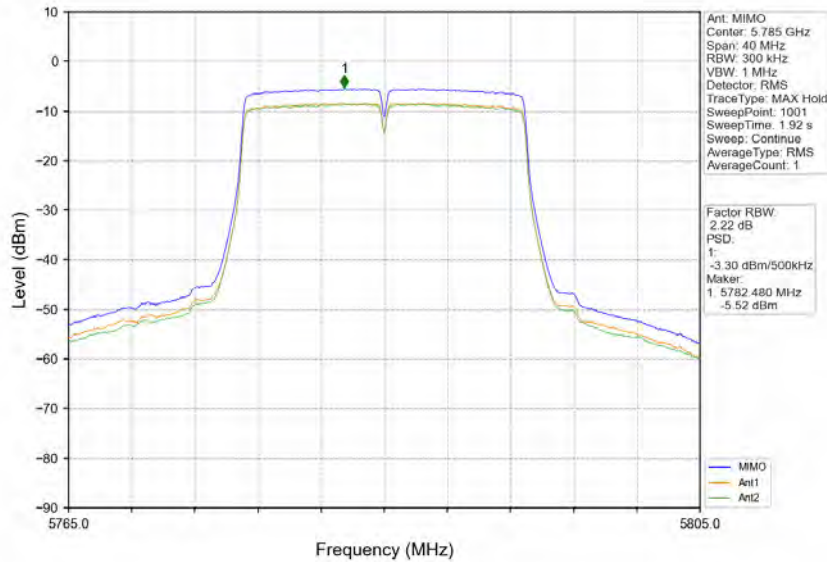
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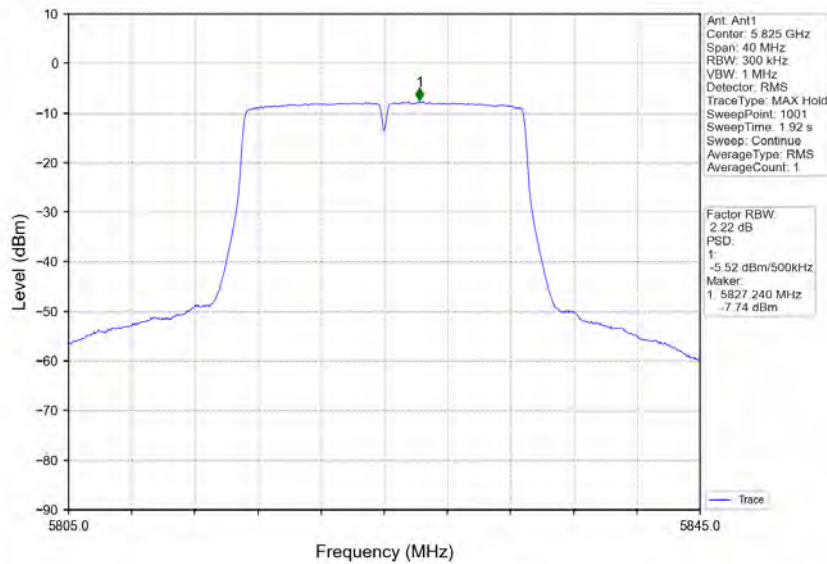
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802.11ac(VHT20)\_MCH\_5785MHz\_MIMO\_NTNV



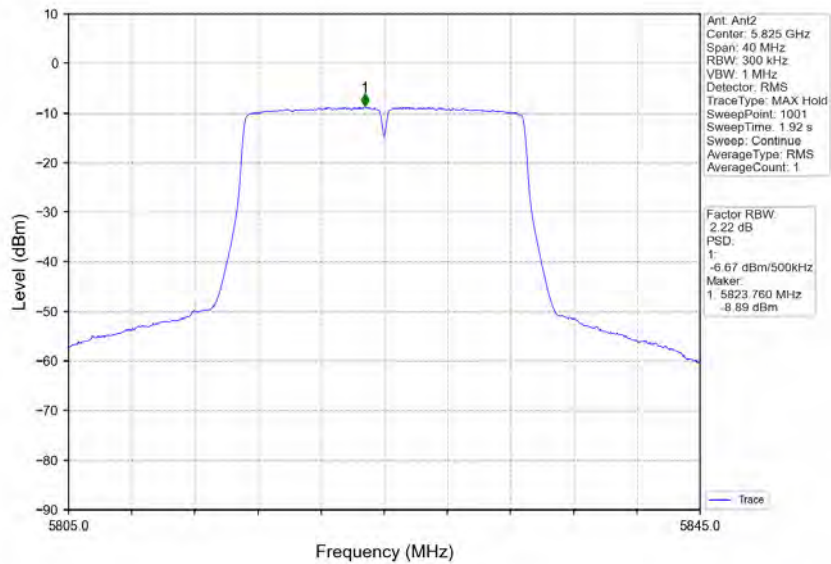
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



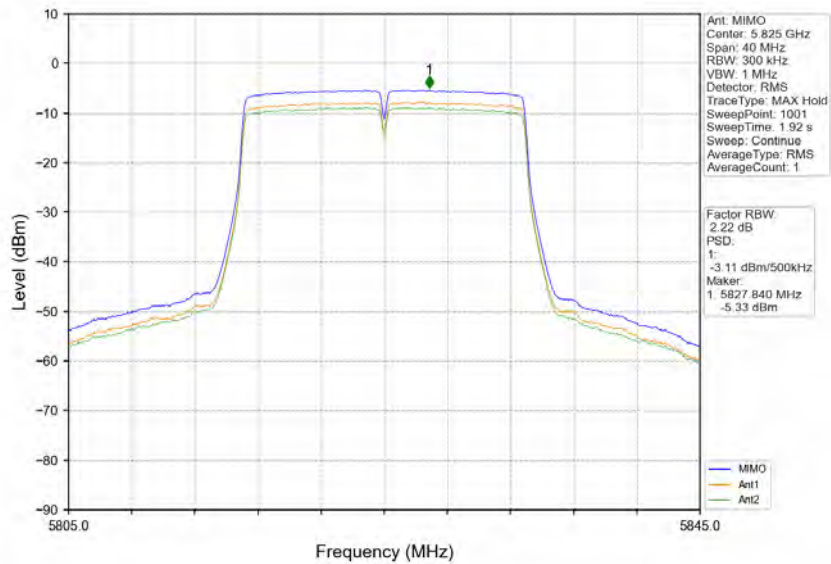
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant2\_NTNV



802.11ac(VHT20)\_HCH\_5825MHz\_MIMO\_NTNV



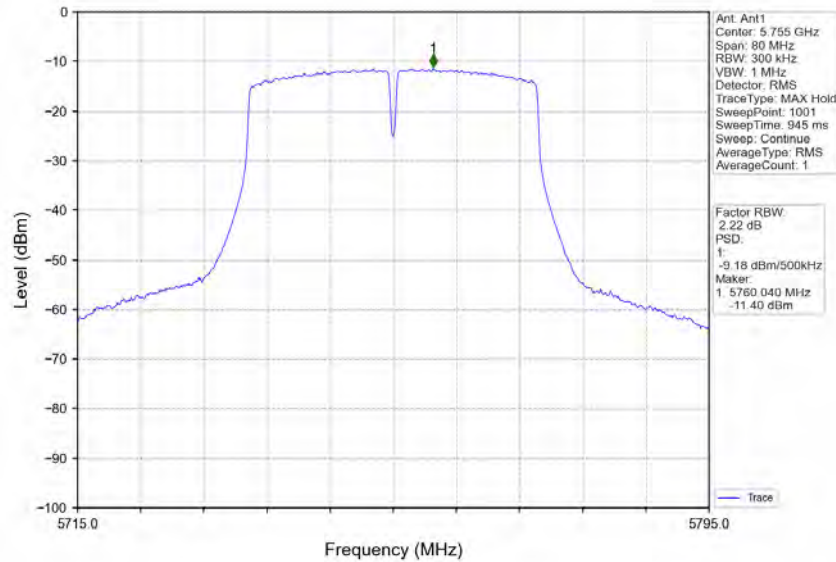
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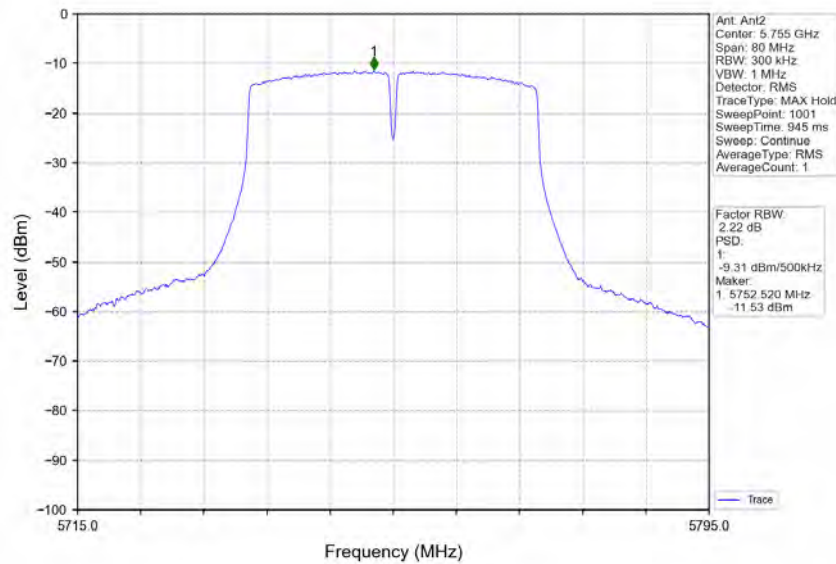
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5755MHz\_Ant2\_NTNV



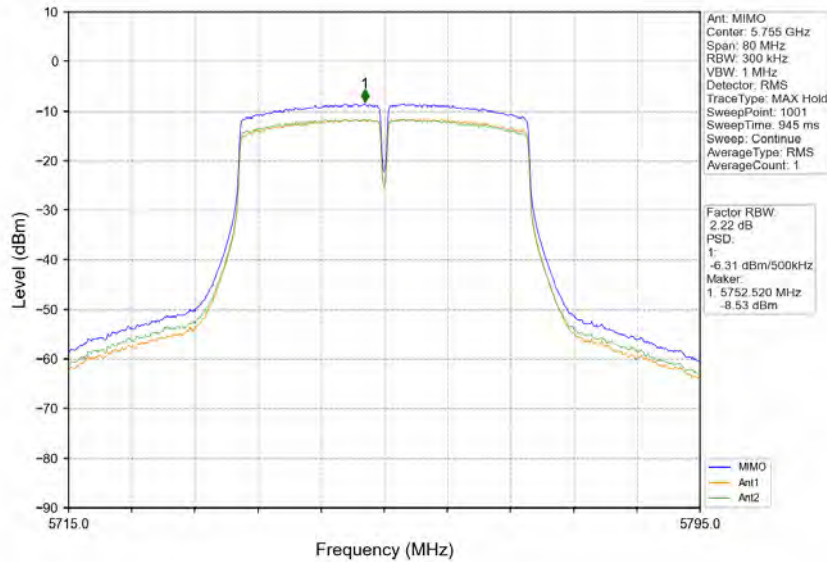
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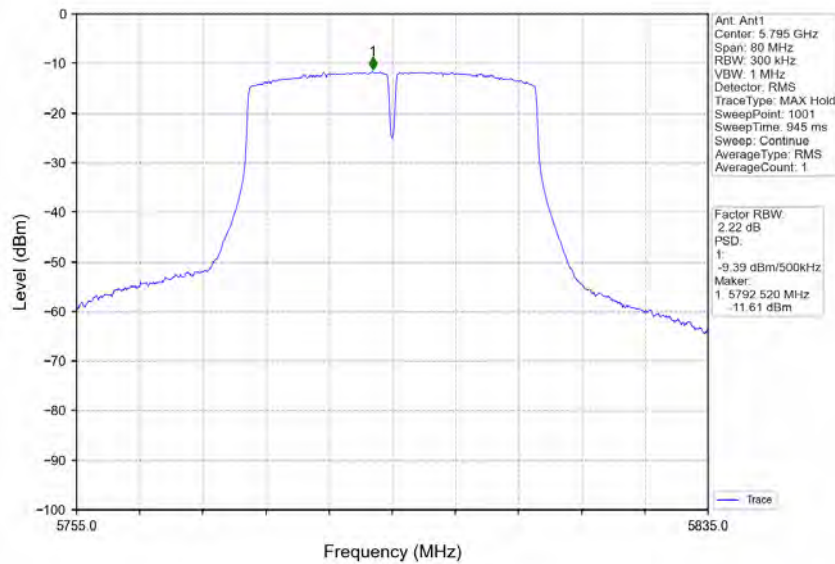
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802.11ac(VHT40)\_LCH\_5755MHz\_MIMO\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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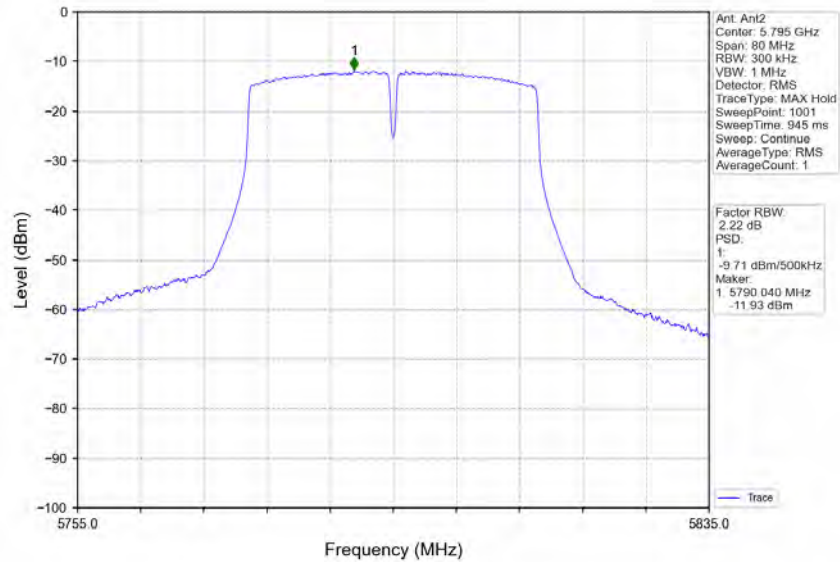
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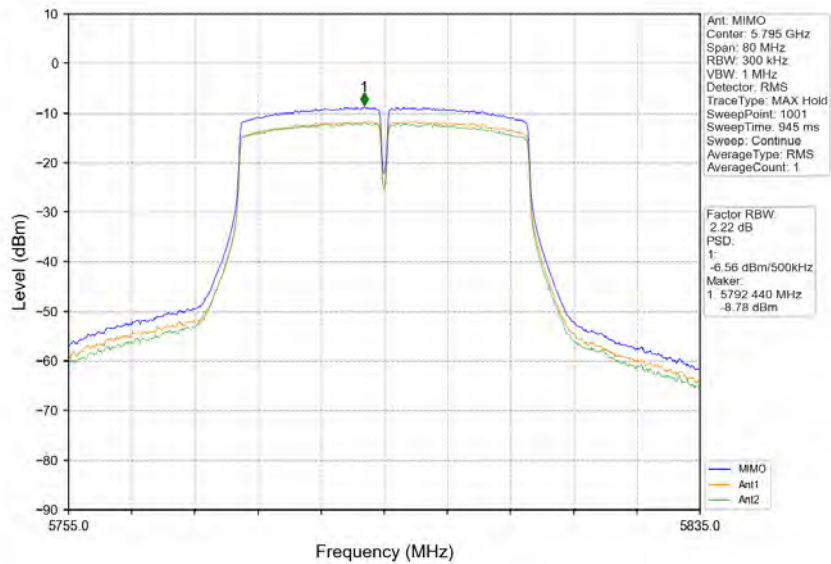
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_MIMO\_NTNV



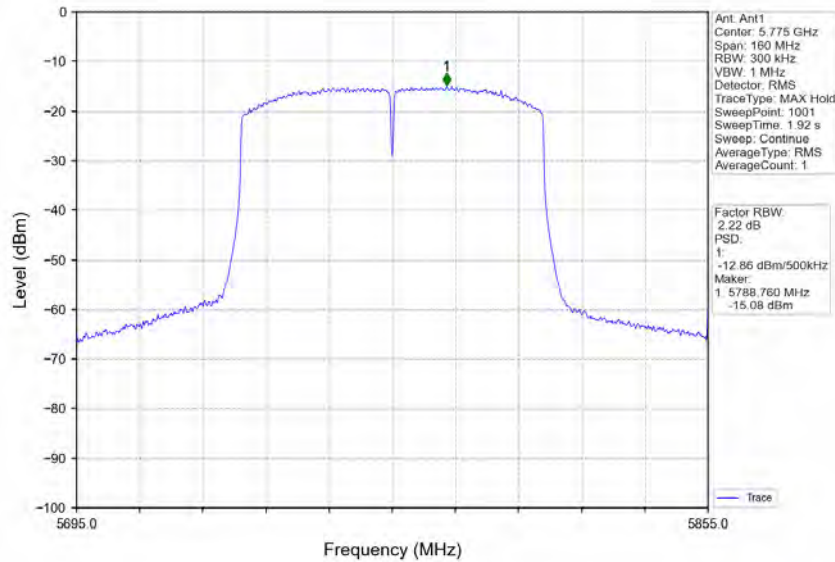
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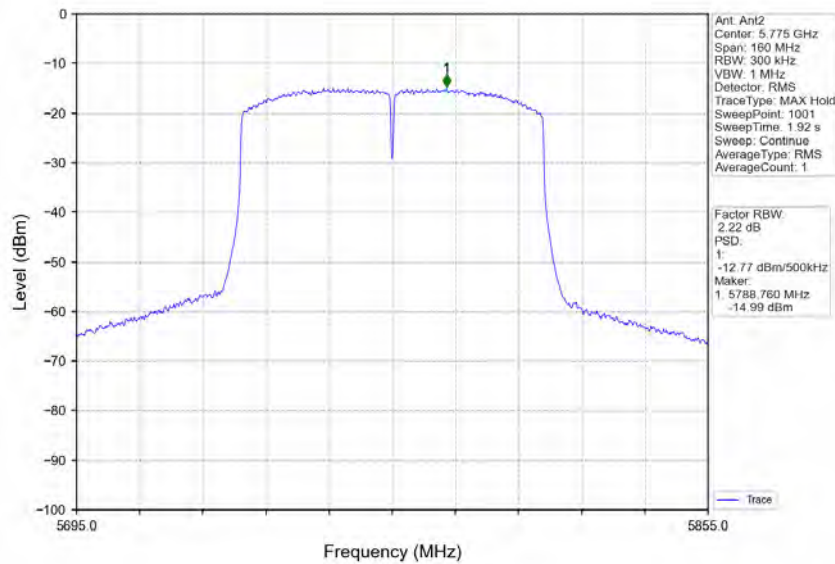
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



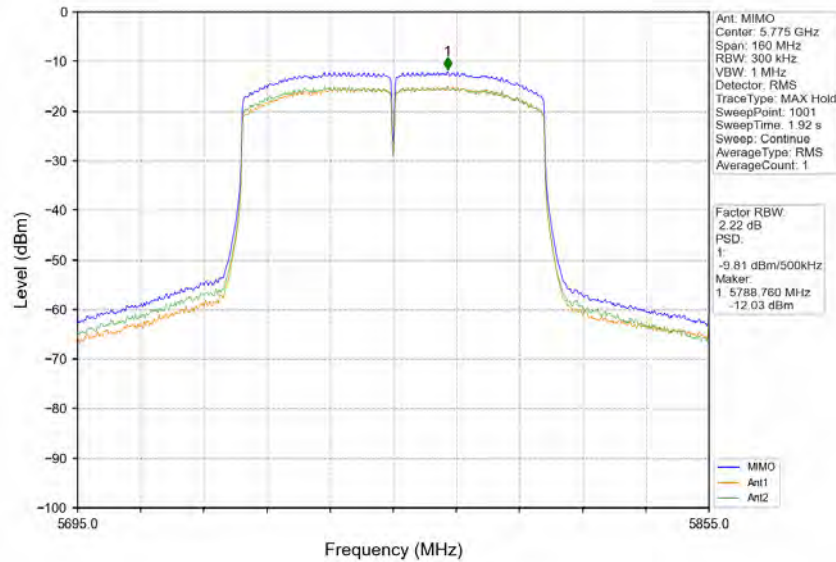
802.11ac(VHT80)\_MCH\_5775MHz\_Ant2\_NTNV



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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	5180.040	5150 to 5250	Pass		
				120	5179.980	5150 to 5250	Pass		
				138	5180.040	5150 to 5250	Pass		
			5200	-30	120	5180.000	5150 to 5250	Pass	
					-20	120	5180.000	5150 to 5250	Pass
						120	5180.040	5150 to 5250	Pass
				0	120	5180.020	5150 to 5250	Pass	
					10	120	5180.020	5150 to 5250	Pass
						120	5180.000	5150 to 5250	Pass
		30		120	5180.060	5150 to 5250	Pass		
				40	120	5180.060	5150 to 5250	Pass	
					120	5180.020	5150 to 5250	Pass	
		5240	20	102	5199.980	5150 to 5250	Pass		
				120	5200.040	5150 to 5250	Pass		
				138	5200.000	5150 to 5250	Pass		
			-30	120	5200.000	5150 to 5250	Pass		
				-20	120	5200.000	5150 to 5250	Pass	
					120	5200.040	5150 to 5250	Pass	
			0	120	5199.980	5150 to 5250	Pass		
				10	120	5200.020	5150 to 5250	Pass	
					120	5199.960	5150 to 5250	Pass	
		5745	30	120	5200.020	5150 to 5250	Pass		
				40	120	5199.980	5150 to 5250	Pass	
					120	5240.060	5150 to 5250	Pass	
			20	102	5239.980	5150 to 5250	Pass		
				120	5240.020	5150 to 5250	Pass		
				138	5240.020	5150 to 5250	Pass		
			-30	120	5240.020	5150 to 5250	Pass		
				-20	120	5240.000	5150 to 5250	Pass	
					120	5240.000	5150 to 5250	Pass	
		0	120	5240.060	5150 to 5250	Pass			
			10	120	5240.000	5150 to 5250	Pass		
				120	5239.940	5150 to 5250	Pass		
		30	120	5239.980	5150 to 5250	Pass			
			40	120	5239.980	5150 to 5250	Pass		
				120	5240.040	5150 to 5250	Pass		
5745	20	102	5745.020	5725 to 5850	Pass				
		120	5744.980	5725 to 5850	Pass				
		138	5745.020	5725 to 5850	Pass				
	-30	120	5745.000	5725 to 5850	Pass				
		-20	120	5744.980	5725 to 5850	Pass			
			120	5745.020	5725 to 5850	Pass			



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				0	120	5745.000	5725 to 5850	Pass			
				10	120	5744.940	5725 to 5850	Pass			
				30	120	5745.020	5725 to 5850	Pass			
				40	120	5745.000	5725 to 5850	Pass			
				50	120	5745.000	5725 to 5850	Pass			
				5785	20	102	5785.000	5725 to 5850	Pass		
						120	5785.040	5725 to 5850	Pass		
						138	5785.020	5725 to 5850	Pass		
					-30	120	5785.000	5725 to 5850	Pass		
					-20	120	5785.020	5725 to 5850	Pass		
					-10	120	5784.980	5725 to 5850	Pass		
					0	120	5785.060	5725 to 5850	Pass		
					10	120	5785.000	5725 to 5850	Pass		
					30	120	5785.000	5725 to 5850	Pass		
					40	120	5785.040	5725 to 5850	Pass		
					50	120	5785.040	5725 to 5850	Pass		
					5825	20	102	5824.980	5725 to 5850	Pass	
				120			5825.020	5725 to 5850	Pass		
				138			5825.040	5725 to 5850	Pass		
				-30		120	5825.000	5725 to 5850	Pass		
				-20		120	5825.040	5725 to 5850	Pass		
				-10		120	5825.000	5725 to 5850	Pass		
				0		120	5825.000	5725 to 5850	Pass		
				10		120	5824.940	5725 to 5850	Pass		
				30		120	5825.060	5725 to 5850	Pass		
				40		120	5825.020	5725 to 5850	Pass		
				50		120	5825.040	5725 to 5850	Pass		
				802.11n (HT20)		MIMO	5180	20	102	5180.040	5150 to 5250
					120				5179.980	5150 to 5250	Pass
					138				5180.040	5150 to 5250	Pass
					-30			120	5180.020	5150 to 5250	Pass
					-20			120	5180.020	5150 to 5250	Pass
					-10			120	5180.020	5150 to 5250	Pass
					0			120	5180.020	5150 to 5250	Pass
					10			120	5180.040	5150 to 5250	Pass
					30			120	5180.020	5150 to 5250	Pass
					40			120	5180.000	5150 to 5250	Pass
					50			120	5180.020	5150 to 5250	Pass
					5200			20	102	5199.980	5150 to 5250
							120		5200.000	5150 to 5250	Pass
138	5200.020	5150 to 5250	Pass								
-30	120	5200.020	5150 to 5250				Pass				
-20	120	5200.020	5150 to 5250				Pass				
-10	120	5200.000	5150 to 5250				Pass				
0	120	5200.060	5150 to 5250				Pass				
10	120	5199.960	5150 to 5250				Pass				
5240	20	102	5240.020		5150 to 5250		Pass				
		120	5240.000	5150 to 5250	Pass						
		138	5240.000	5150 to 5250	Pass						



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		5745	-30	120	5240.000	5150 to 5250	Pass			
			-20	120	5240.060	5150 to 5250	Pass			
			-10	120	5240.040	5150 to 5250	Pass			
			0	120	5240.000	5150 to 5250	Pass			
			10	120	5239.980	5150 to 5250	Pass			
			30	120	5239.980	5150 to 5250	Pass			
			40	120	5239.980	5150 to 5250	Pass			
			50	120	5240.040	5150 to 5250	Pass			
			5785	20	102	5745.000	5725 to 5850	Pass		
					120	5745.000	5725 to 5850	Pass		
					138	5744.980	5725 to 5850	Pass		
				-30	120	5745.000	5725 to 5850	Pass		
				-20	120	5745.000	5725 to 5850	Pass		
				-10	120	5745.040	5725 to 5850	Pass		
				0	120	5744.980	5725 to 5850	Pass		
		10		120	5745.060	5725 to 5850	Pass			
		30		120	5745.060	5725 to 5850	Pass			
		40		120	5745.000	5725 to 5850	Pass			
		50		120	5745.060	5725 to 5850	Pass			
		5825		20	102	5785.040	5725 to 5850	Pass		
					120	5784.980	5725 to 5850	Pass		
					138	5784.980	5725 to 5850	Pass		
				-30	120	5784.980	5725 to 5850	Pass		
			-20	120	5785.000	5725 to 5850	Pass			
			-10	120	5785.000	5725 to 5850	Pass			
			0	120	5785.040	5725 to 5850	Pass			
			10	120	5784.940	5725 to 5850	Pass			
			30	120	5785.020	5725 to 5850	Pass			
			40	120	5785.040	5725 to 5850	Pass			
			50	120	5784.960	5725 to 5850	Pass			
			5190	20	102	5825.000	5725 to 5850	Pass		
					120	5824.960	5725 to 5850	Pass		
					138	5824.980	5725 to 5850	Pass		
				-30	120	5825.000	5725 to 5850	Pass		
		-20		120	5825.000	5725 to 5850	Pass			
		-10		120	5825.020	5725 to 5850	Pass			
		0		120	5824.960	5725 to 5850	Pass			
		10		120	5824.980	5725 to 5850	Pass			
		30		120	5825.020	5725 to 5850	Pass			
		40		120	5824.980	5725 to 5850	Pass			
		50		120	5824.940	5725 to 5850	Pass			
		802.11n (HT40)		MIMO	5190	20	102	5190.080	5150 to 5250	Pass
							120	5190.000	5150 to 5250	Pass
							138	5190.000	5150 to 5250	Pass
						-30	120	5190.000	5150 to 5250	Pass
-20	120		5190.040			5150 to 5250	Pass			
-10	120		5190.000			5150 to 5250	Pass			
0	120		5190.000			5150 to 5250	Pass			
10	120		5190.080			5150 to 5250	Pass			
30	120		5190.000			5150 to 5250	Pass			
40	120		5189.960			5150 to 5250	Pass			
50	120		5190.000			5150 to 5250	Pass			



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		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	5230.080	5150 to 5250	Pass		
				-20	120	5230.000	5150 to 5250	Pass	
					-10	120	5230.040	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass		
				10	120	5229.960	5150 to 5250	Pass	
				30	120	5230.040	5150 to 5250	Pass	
				40	120	5230.000	5150 to 5250	Pass	
				50	120	5230.080	5150 to 5250	Pass	
				5755	20	102	5755.040	5725 to 5850	Pass
		120				5755.040	5725 to 5850	Pass	
		138	5755.000			5725 to 5850	Pass		
		-30	120		5755.000	5725 to 5850	Pass		
			-20		120	5755.040	5725 to 5850	Pass	
					-10	120	5755.000	5725 to 5850	Pass
		0	120	5754.960	5725 to 5850	Pass			
			10	120	5754.960	5725 to 5850	Pass		
			30	120	5754.960	5725 to 5850	Pass		
			40	120	5755.040	5725 to 5850	Pass		
			50	120	5755.080	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	5795.000	5725 to 5850	Pass		
				-20	120	5795.000	5725 to 5850	Pass	
					-10	120	5795.000	5725 to 5850	Pass
		0		120	5795.000	5725 to 5850	Pass		
				10	120	5795.040	5725 to 5850	Pass	
			30	120	5795.040	5725 to 5850	Pass		
			40	120	5795.040	5725 to 5850	Pass		
			50	120	5794.960	5725 to 5850	Pass		
		802.11ac (VHT20)	MIMO	5180	20	102	5180.060	5150 to 5250	Pass
						120	5180.020	5150 to 5250	Pass
						138	5180.020	5150 to 5250	Pass
-30	120				5180.000	5150 to 5250	Pass		
	-20				120	5180.000	5150 to 5250	Pass	
					-10	120	5179.960	5150 to 5250	Pass
0	120				5180.060	5150 to 5250	Pass		
	10				120	5180.000	5150 to 5250	Pass	
	30				120	5180.020	5150 to 5250	Pass	
	40				120	5180.000	5150 to 5250	Pass	
	50				120	5180.060	5150 to 5250	Pass	
	5200				20	102	5200.060	5150 to 5250	Pass
				120		5200.000	5150 to 5250	Pass	
138				5200.000		5150 to 5250	Pass		
-30				120	5199.980	5150 to 5250	Pass		
				-20	120	5200.000	5150 to 5250	Pass	
					-10	120	5200.020	5150 to 5250	Pass
0	120			5200.020	5150 to 5250	Pass			
10	120			5199.980	5150 to 5250	Pass			



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		5240	30	120	5200.020	5150 to 5250	Pass	
			40	120	5200.040	5150 to 5250	Pass	
			50	120	5200.040	5150 to 5250	Pass	
			20	102	5240.020	5150 to 5250	Pass	
				120	5240.020	5150 to 5250	Pass	
				138	5240.020	5150 to 5250	Pass	
			-30	120	5240.040	5150 to 5250	Pass	
			-20	120	5240.020	5150 to 5250	Pass	
			-10	120	5240.020	5150 to 5250	Pass	
			0	120	5240.000	5150 to 5250	Pass	
			10	120	5240.040	5150 to 5250	Pass	
			30	120	5240.020	5150 to 5250	Pass	
			40	120	5240.020	5150 to 5250	Pass	
			50	120	5240.000	5150 to 5250	Pass	
			5745	20	102	5745.000	5725 to 5850	Pass
		120			5744.960	5725 to 5850	Pass	
		138			5745.000	5725 to 5850	Pass	
		-30		120	5745.000	5725 to 5850	Pass	
		-20		120	5745.000	5725 to 5850	Pass	
		-10		120	5744.980	5725 to 5850	Pass	
		0		120	5744.980	5725 to 5850	Pass	
		10		120	5745.000	5725 to 5850	Pass	
		30		120	5745.000	5725 to 5850	Pass	
		40		120	5745.000	5725 to 5850	Pass	
		50		120	5744.980	5725 to 5850	Pass	
		5785		20	102	5785.020	5725 to 5850	Pass
					120	5784.960	5725 to 5850	Pass
					138	5785.000	5725 to 5850	Pass
				-30	120	5785.000	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass	
			-10	120	5785.000	5725 to 5850	Pass	
			0	120	5785.000	5725 to 5850	Pass	
			10	120	5785.000	5725 to 5850	Pass	
			30	120	5785.000	5725 to 5850	Pass	
			40	120	5784.980	5725 to 5850	Pass	
			50	120	5784.980	5725 to 5850	Pass	
			5825	20	102	5825.000	5725 to 5850	Pass
					120	5824.980	5725 to 5850	Pass
					138	5825.000	5725 to 5850	Pass
				-30	120	5825.000	5725 to 5850	Pass
		-20		120	5824.960	5725 to 5850	Pass	
		-10		120	5824.980	5725 to 5850	Pass	
		0		120	5825.000	5725 to 5850	Pass	
		10		120	5825.000	5725 to 5850	Pass	
		30		120	5824.960	5725 to 5850	Pass	
40	120	5824.980		5725 to 5850	Pass			
50	120	5825.020		5725 to 5850	Pass			
802.11ac (VHT40)	MIMO	5190		20	102	5190.000	5150 to 5250	Pass
					120	5189.960	5150 to 5250	Pass
					138	5190.040	5150 to 5250	Pass
				-30	120	5189.960	5150 to 5250	Pass
			-20	120	5190.000	5150 to 5250	Pass	



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		5230	-10	120	5190.040	5150 to 5250	Pass			
			0	120	5190.080	5150 to 5250	Pass			
			10	120	5190.040	5150 to 5250	Pass			
			30	120	5190.040	5150 to 5250	Pass			
			40	120	5190.080	5150 to 5250	Pass			
			50	120	5190.000	5150 to 5250	Pass			
			20	102	5230.120	5150 to 5250	Pass			
				120	5230.000	5150 to 5250	Pass			
				138	5230.000	5150 to 5250	Pass			
			-30	120	5230.080	5150 to 5250	Pass			
			-20	120	5230.000	5150 to 5250	Pass			
			-10	120	5230.080	5150 to 5250	Pass			
			0	120	5229.960	5150 to 5250	Pass			
			10	120	5230.000	5150 to 5250	Pass			
			30	120	5229.960	5150 to 5250	Pass			
		40	120	5230.040	5150 to 5250	Pass				
		50	120	5230.040	5150 to 5250	Pass				
		5755	20	102	5755.000	5725 to 5850	Pass			
				120	5755.000	5725 to 5850	Pass			
				138	5754.960	5725 to 5850	Pass			
			-30	120	5755.000	5725 to 5850	Pass			
			-20	120	5755.000	5725 to 5850	Pass			
			-10	120	5754.920	5725 to 5850	Pass			
			0	120	5755.000	5725 to 5850	Pass			
			10	120	5754.920	5725 to 5850	Pass			
			30	120	5755.040	5725 to 5850	Pass			
			40	120	5755.080	5725 to 5850	Pass			
			50	120	5755.000	5725 to 5850	Pass			
			5795	20	102	5795.040	5725 to 5850	Pass		
					120	5794.960	5725 to 5850	Pass		
					138	5795.000	5725 to 5850	Pass		
				-30	120	5795.000	5725 to 5850	Pass		
		-20		120	5794.960	5725 to 5850	Pass			
		-10		120	5794.960	5725 to 5850	Pass			
		0		120	5794.960	5725 to 5850	Pass			
		10		120	5794.960	5725 to 5850	Pass			
		30		120	5795.040	5725 to 5850	Pass			
		40		120	5794.960	5725 to 5850	Pass			
		50		120	5795.080	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	5210.150	5150 to 5250	Pass
						-30	120	5210.150	5150 to 5250	Pass
			-20			120	5210.000	5150 to 5250	Pass	
			-10			120	5210.225	5150 to 5250	Pass	
0	120		5210.075			5150 to 5250	Pass			
10	120		5210.000			5150 to 5250	Pass			
30	120		5210.000			5150 to 5250	Pass			
40	120		5210.075			5150 to 5250	Pass			
50	120		5210.000			5150 to 5250	Pass			
5775	20		102			5774.925	5725 to 5850	Pass		
			120			5774.925	5725 to 5850	Pass		



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			138	5774.925	5725 to 5850	Pass	
			-30	120	5775.000	5725 to 5850	Pass
			-20	120	5775.000	5725 to 5850	Pass
			-10	120	5775.075	5725 to 5850	Pass
			0	120	5775.075	5725 to 5850	Pass
			10	120	5774.925	5725 to 5850	Pass
			30	120	5775.000	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5774.925	5725 to 5850	Pass



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