

10 Appendix

1. Duty Cycle

1.1 Ant3

1.1.1 Test Result

Ant3							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.394	1.446	96.40	0.16	0.03
		5200	1.395	1.446	96.47	0.16	0.03
		5240	1.394	1.446	96.40	0.16	0.03
		5745	1.395	1.446	96.47	0.16	0.03
		5785	1.394	1.446	96.40	0.16	0.03
		5825	1.395	1.447	96.41	0.16	0.03
802.11n (HT20)	MIMO	5180	1.302	1.354	96.16	0.17	0.03
		5200	1.302	1.354	96.16	0.17	0.03
		5240	1.303	1.354	96.23	0.17	0.03
		5745	1.302	1.353	96.23	0.17	0.07
		5785	1.302	1.354	96.16	0.17	0.07
		5825	1.302	1.354	96.16	0.17	0.03
802.11n (HT40)	MIMO	5190	0.650	0.701	92.72	0.33	0.03
		5230	0.650	0.701	92.72	0.33	0.03
		5755	0.649	0.701	92.58	0.33	0.03
		5795	0.650	0.701	92.72	0.33	0.03
802.11ac (VHT20)	MIMO	5180	1.315	1.366	96.27	0.17	0.03
		5200	1.314	1.365	96.26	0.17	0.03
		5240	1.314	1.366	96.19	0.17	0.03
		5745	1.314	1.365	96.26	0.17	0.03
		5785	1.314	1.366	96.19	0.17	0.03
		5825	1.314	1.365	96.26	0.17	0.00
802.11ac (VHT40)	MIMO	5190	0.654	0.705	92.77	0.33	0.00
		5230	0.654	0.705	92.77	0.33	0.03
		5755	0.654	0.705	92.77	0.33	0.03
		5795	0.653	0.705	92.62	0.33	0.03
802.11ac	MIMO	5210	0.325	0.376	86.44	0.63	0.04



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220800156606

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(VHT80)		5775	0.326	0.377	86.47	0.63	0.04
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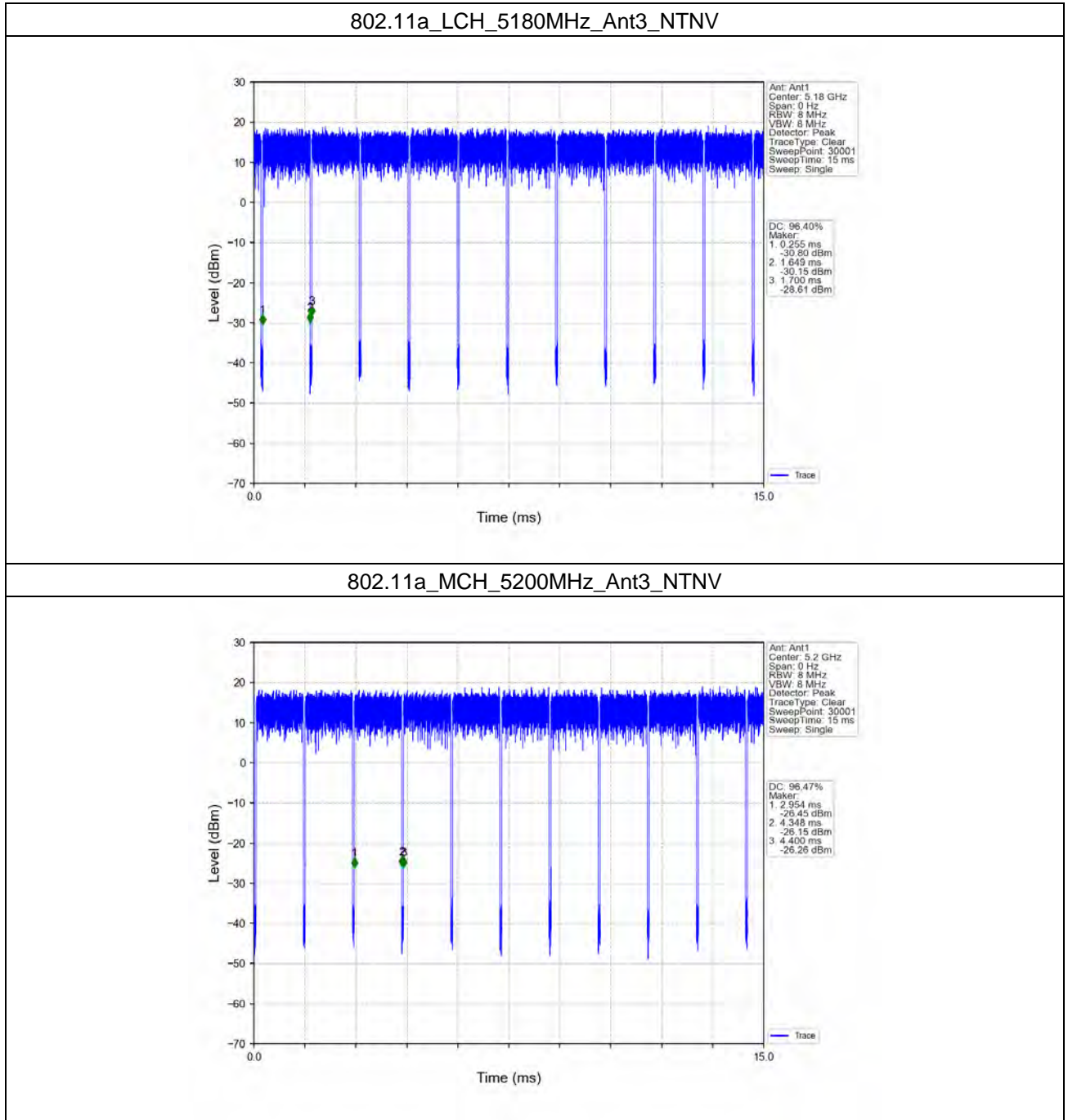
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1.1.2 Test Graph



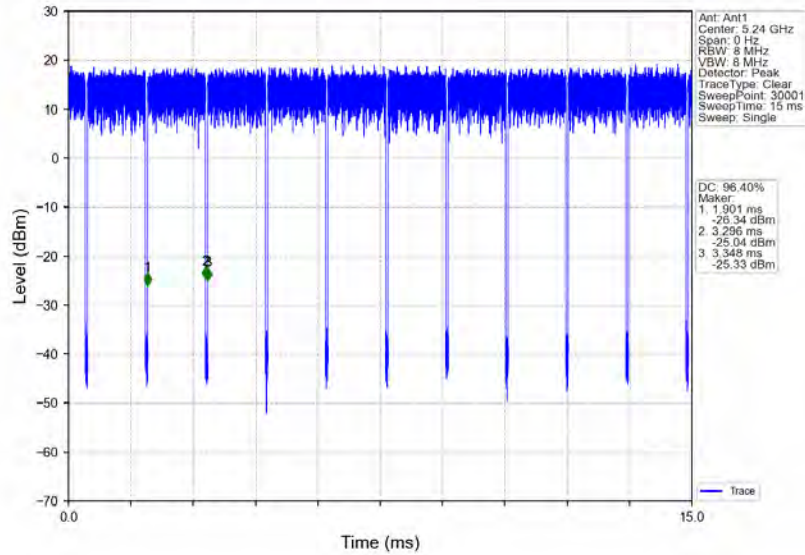
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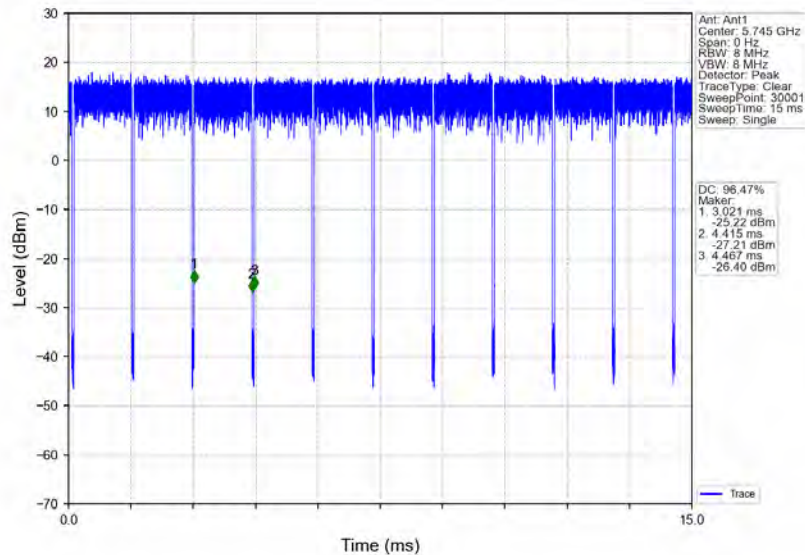
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802.11a_HCH_5240MHz_Ant3_NTNV



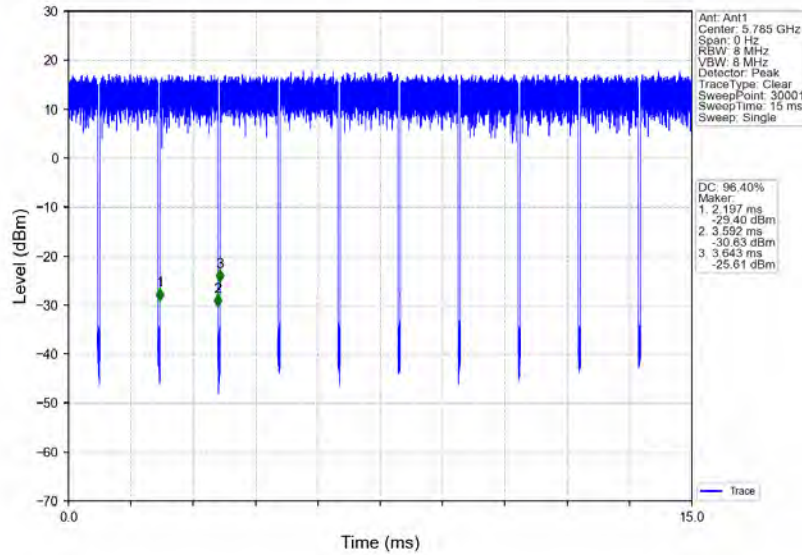
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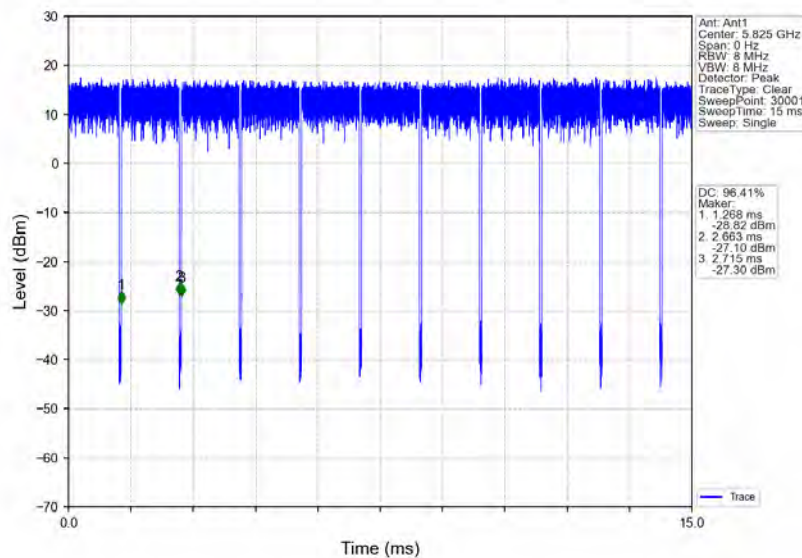
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802.11a_MCH_5785MHz_Ant3_NTNV



802.11a_HCH_5825MHz_Ant3_NTNV



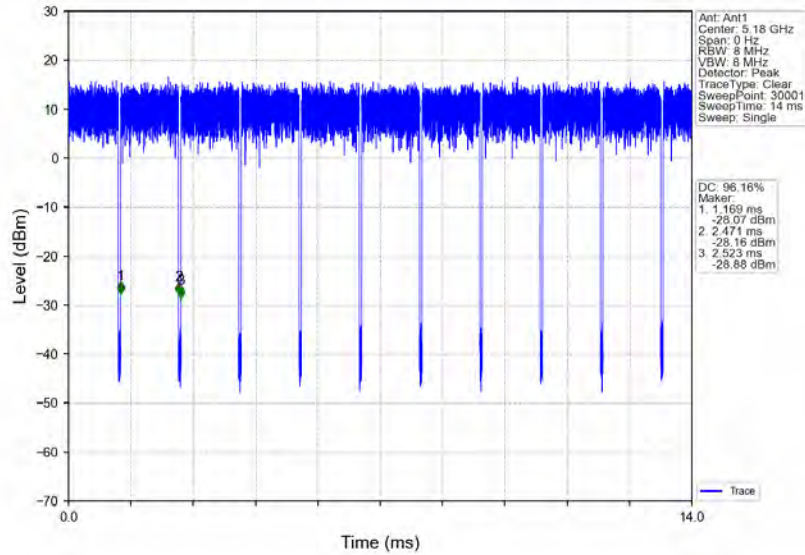
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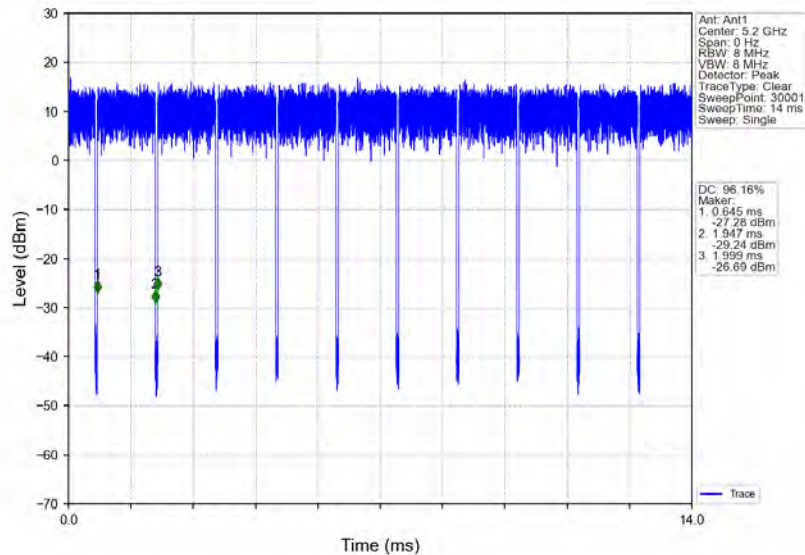
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802.11n(HT20)_LCH_5180MHz_Ant3_NTNV



802.11n(HT20)_MCH_5200MHz_Ant3_NTNV



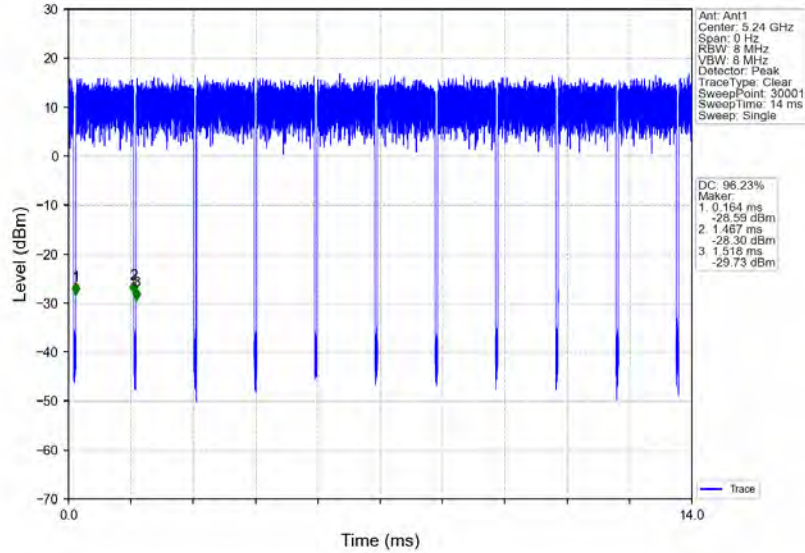
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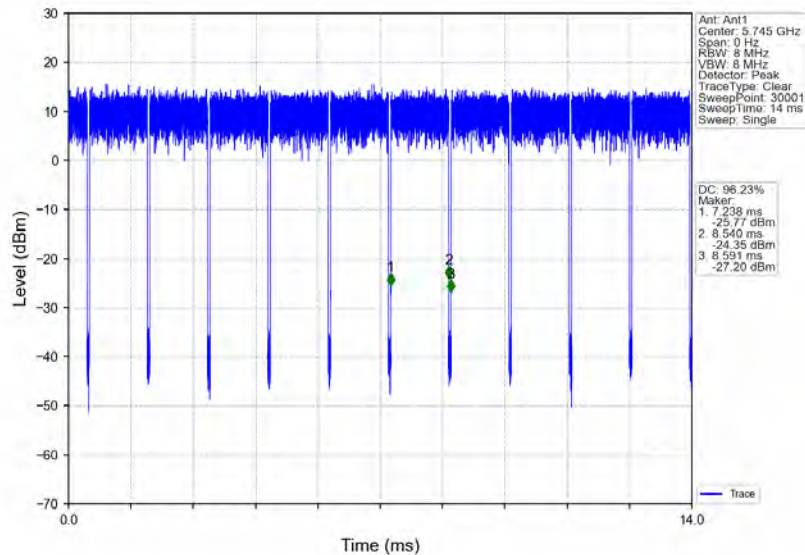
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802.11n(HT20)_HCH_5240MHz_Ant3_NTNV



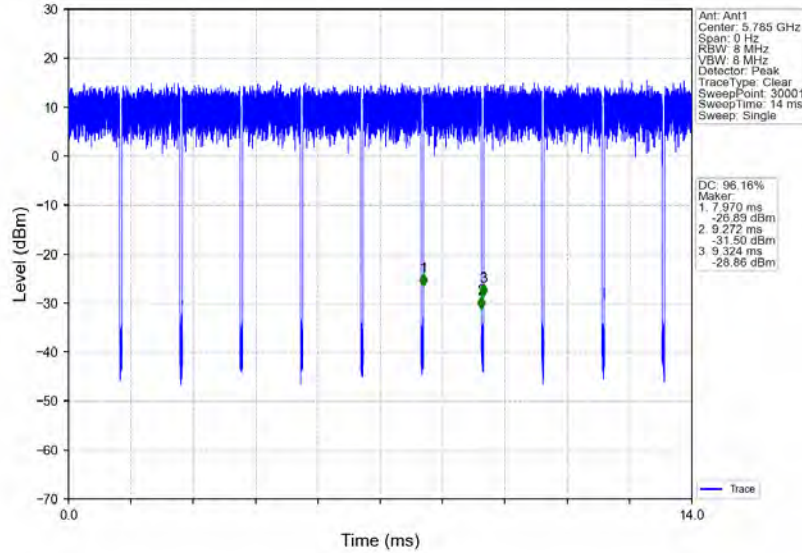
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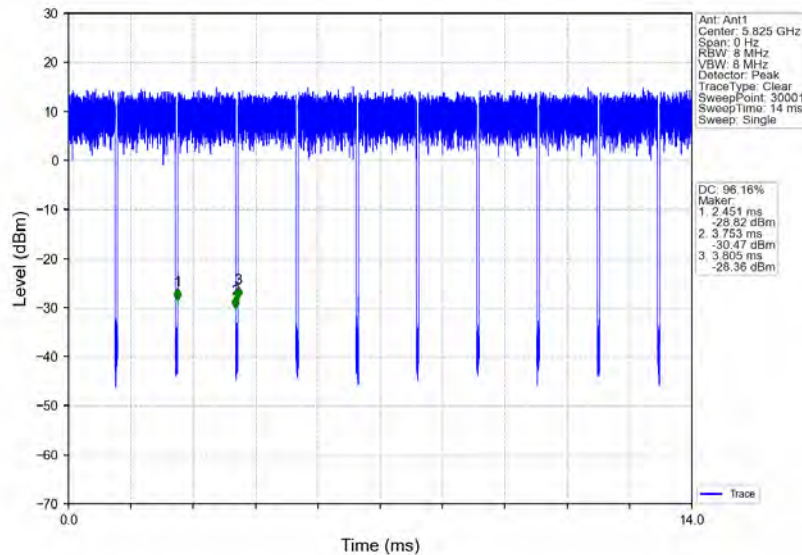
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802.11n(HT20)_HCH_5825MHz_Ant3_NTNV



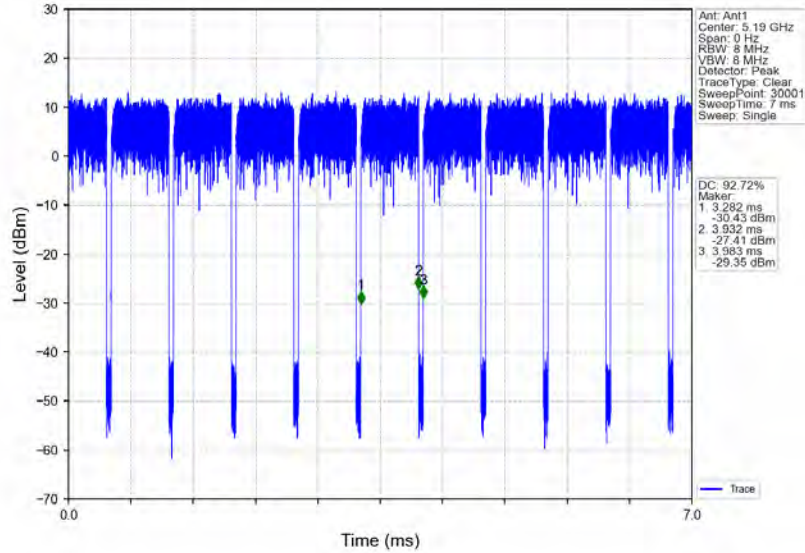
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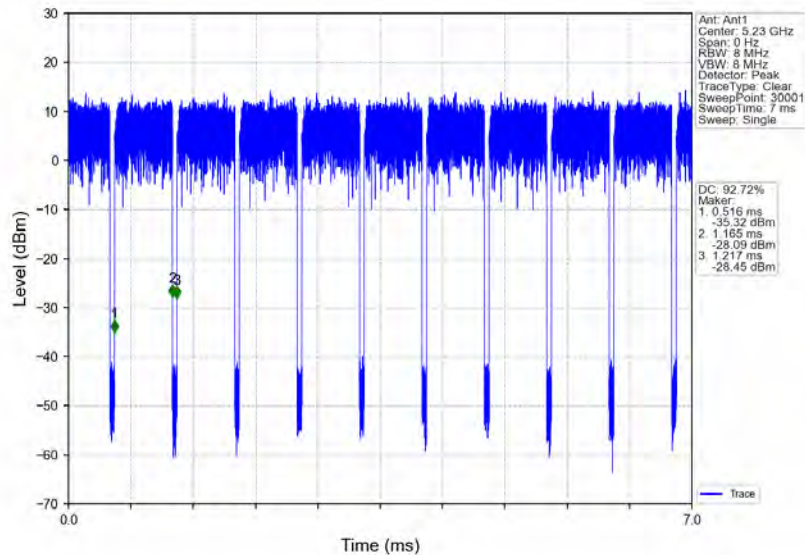
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802.11n(HT40)_HCH_5230MHz_Ant3_NTNV



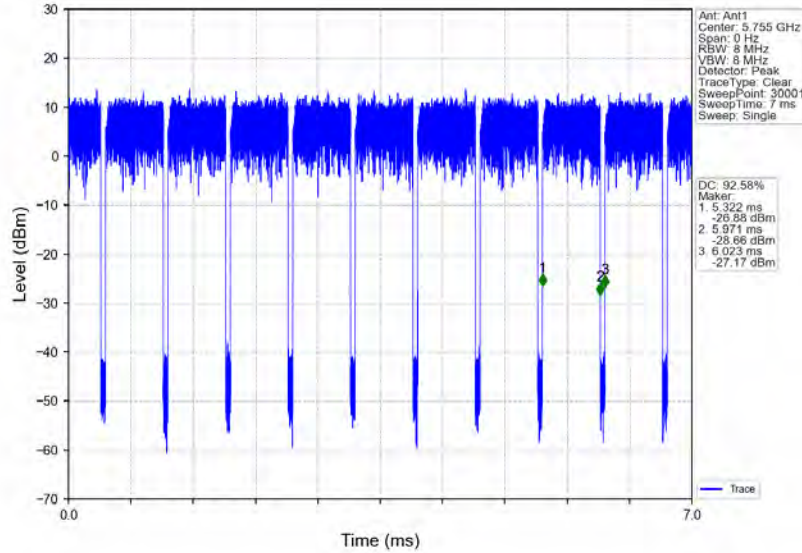
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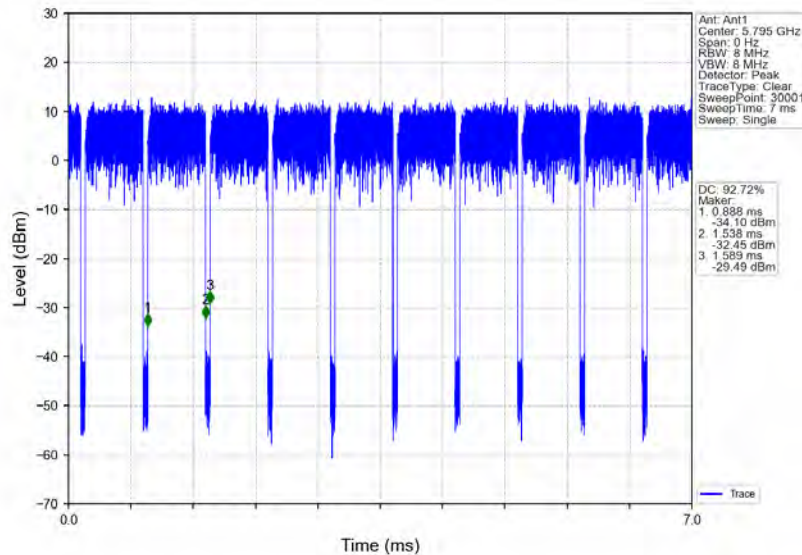
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802.11n(HT40)_LCH_5755MHz_Ant3_NTNV



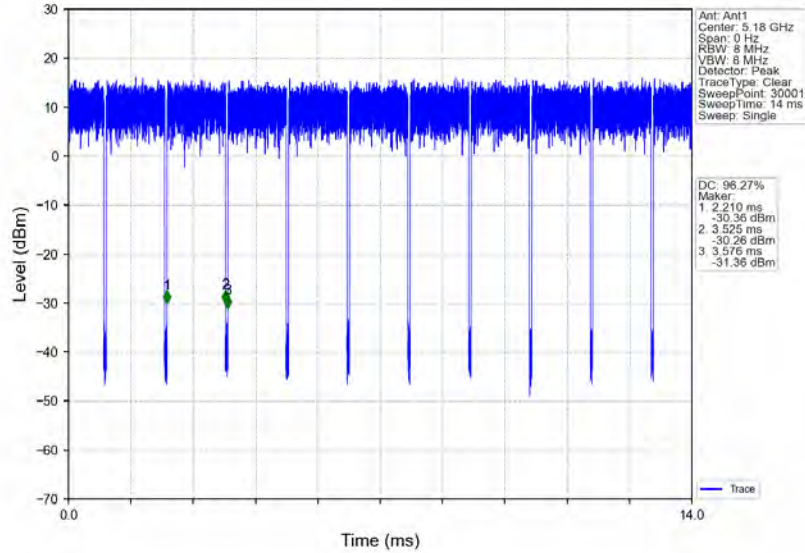
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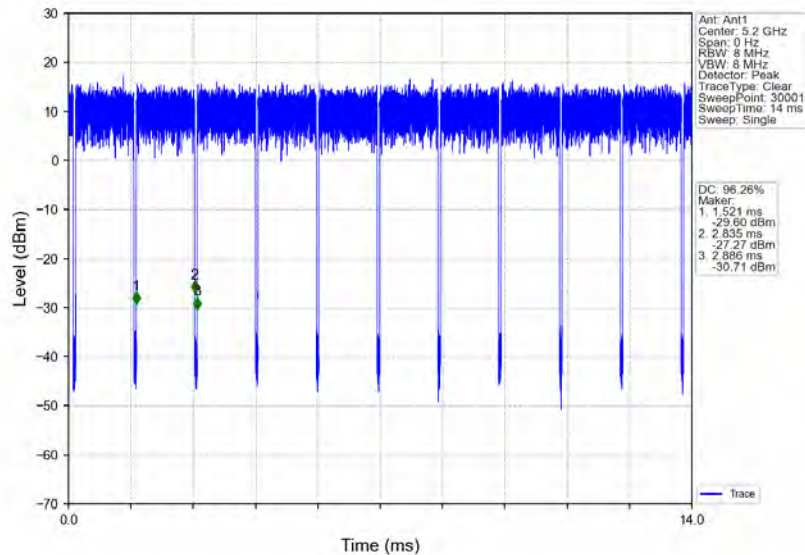
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802.11ac(VHT20)_LCH_5180MHz_Ant3_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant3_NTNV

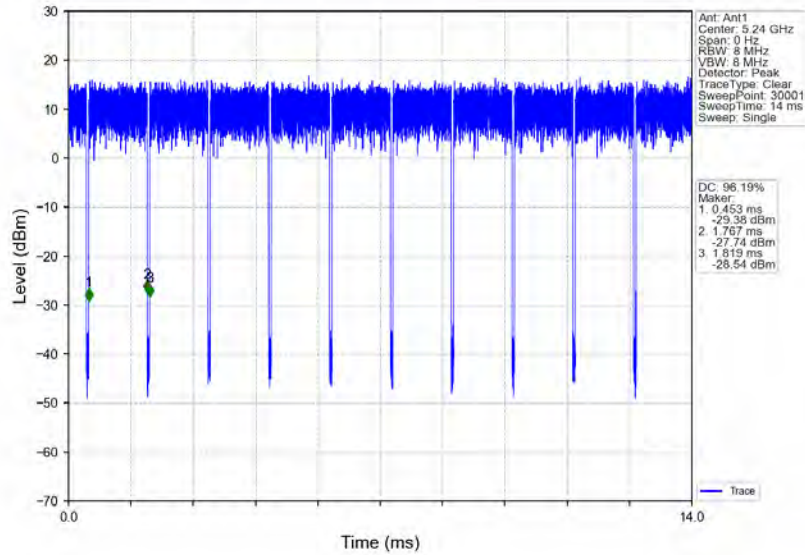


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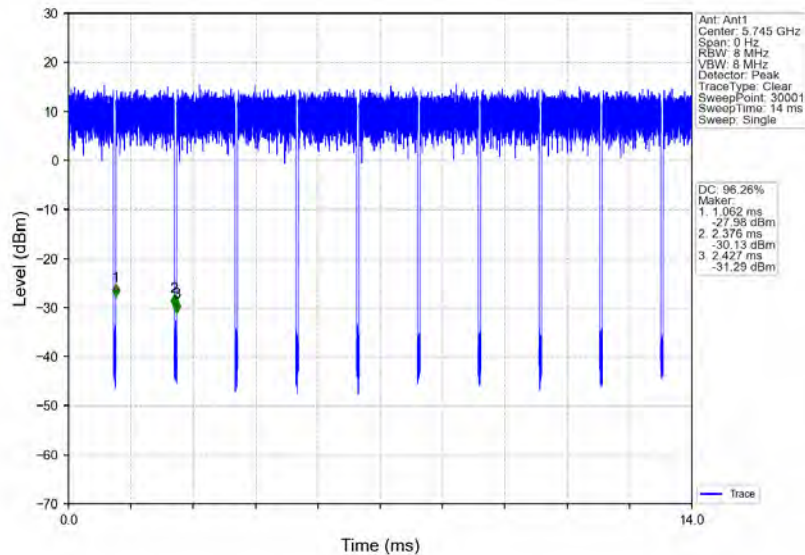
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802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV



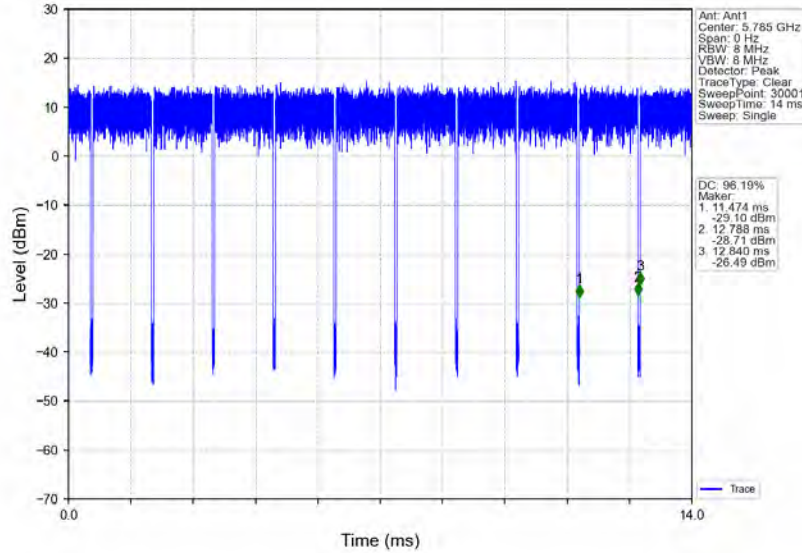
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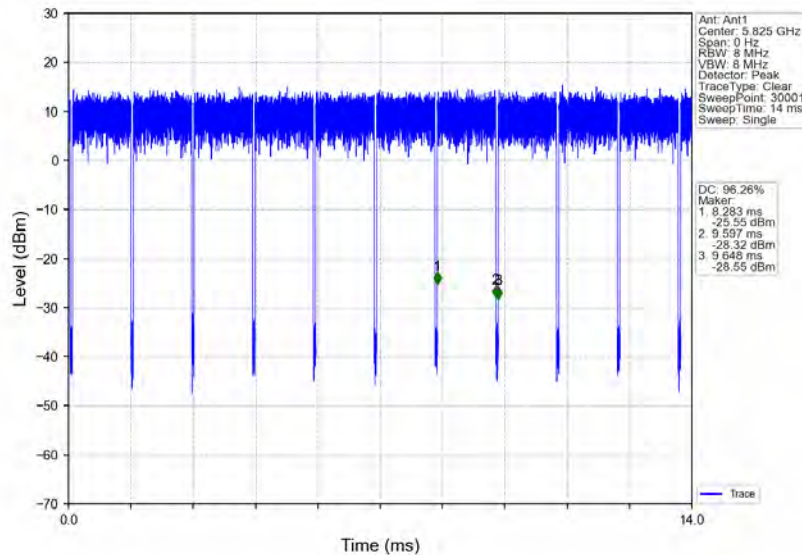
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802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



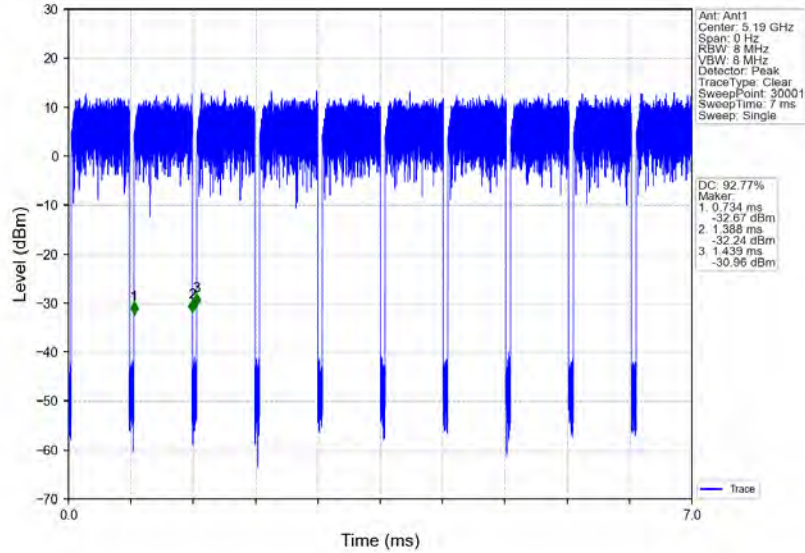
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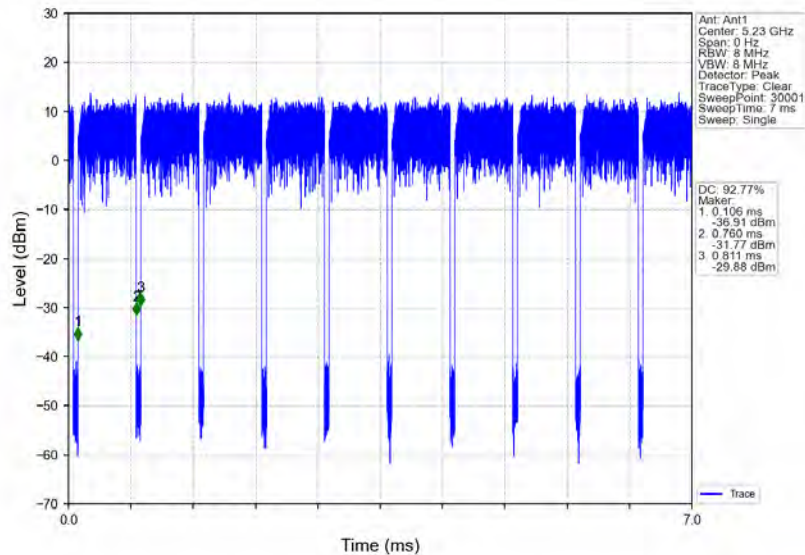
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV

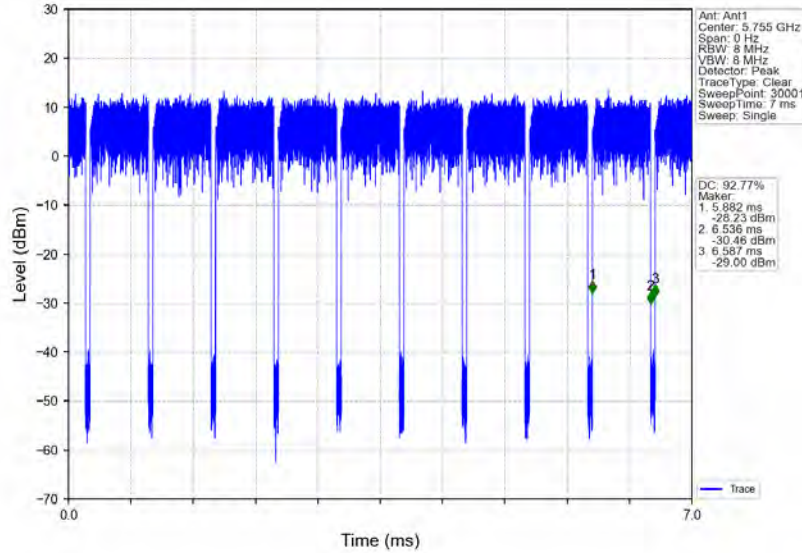


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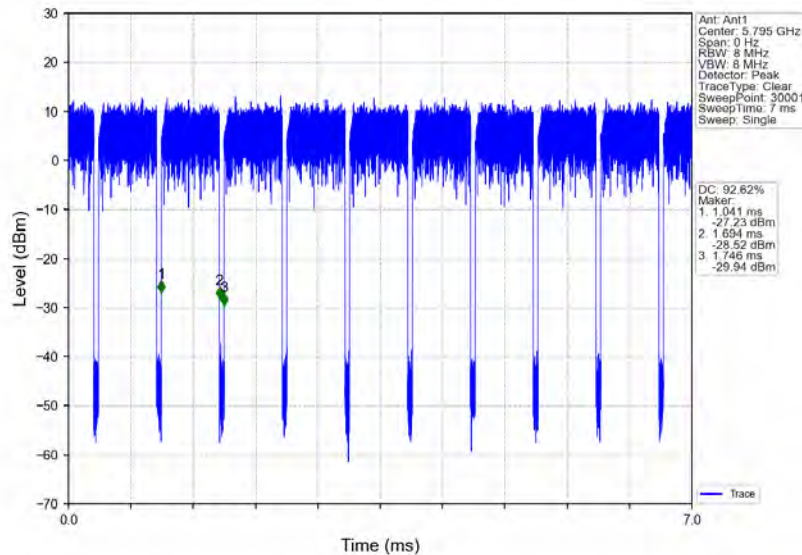
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802.11ac(VHT40)_LCH_5755MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



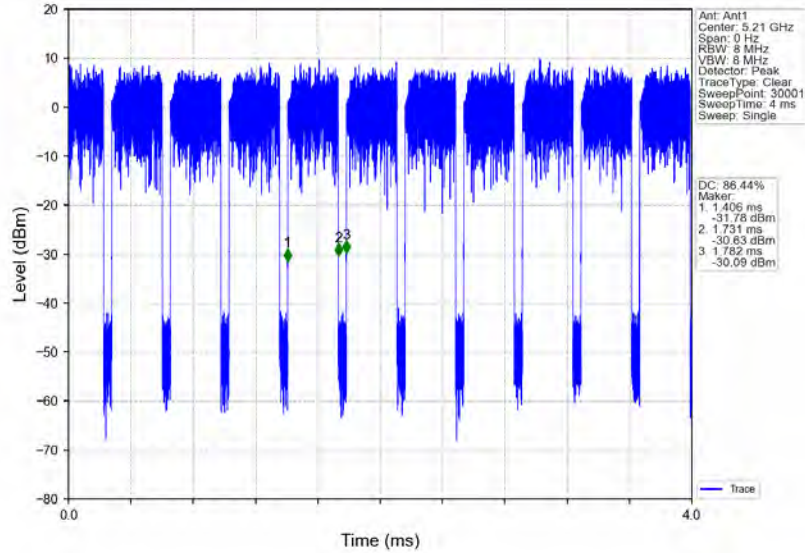
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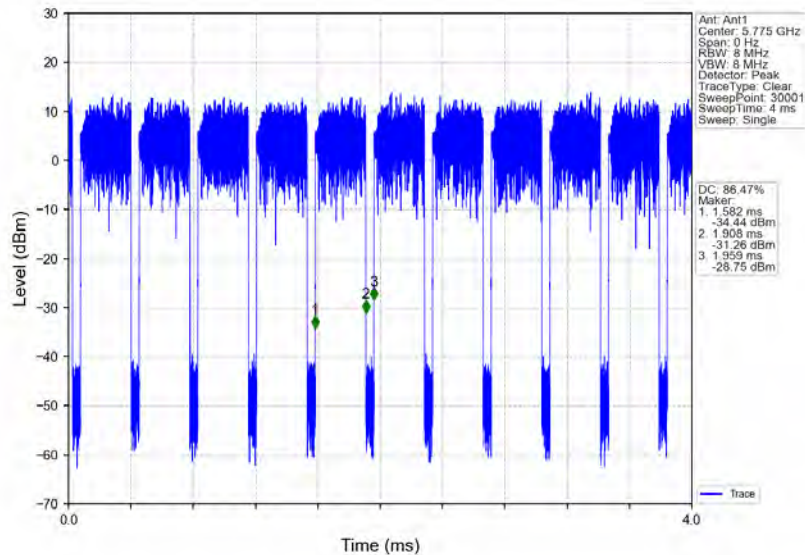
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant3_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	3	17.337	Pass		
			4	17.068	Pass		
		5200	3	18.147	Pass		
			4	17.018	Pass		
		5240	3	18.396	Pass		
			4	17.023	Pass		
		5745	3	18.648	Pass		
			4	18.211	Pass		
		5785	3	18.392	Pass		
			4	17.849	Pass		
		5825	3	17.988	Pass		
			4	17.418	Pass		
		802.11n (HT20)	MIMO	5180	3	18.098	Pass
					4	17.754	Pass
5200	3			18.410	Pass		
	4			17.747	Pass		
5240	3			18.428	Pass		
	4			17.753	Pass		
5745	3			18.554	Pass		
	4			18.083	Pass		
5785	3			18.448	Pass		
	4			17.957	Pass		
5825	3			18.368	Pass		
	4			17.914	Pass		
802.11n (HT40)	MIMO			5190	3	36.220	Pass
					4	36.375	Pass
		5230	3	36.379	Pass		
			4	36.494	Pass		
		5755	3	36.595	Pass		
			4	36.875	Pass		
		5795	3	36.547	Pass		



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802.11ac (VHT20)	MIMO	5180	4	36.744	Pass		
			3	18.136	Pass		
		5200	4	17.768	Pass		
			3	18.403	Pass		
		5240	4	17.740	Pass		
			3	18.430	Pass		
		5745	4	17.755	Pass		
			3	18.525	Pass		
		5785	4	18.045	Pass		
			3	18.474	Pass		
		5825	4	17.980	Pass		
			3	18.371	Pass		
		802.11ac (VHT40)	MIMO	5190	4	17.911	Pass
					3	36.240	Pass
5230	4			36.522	Pass		
	3			36.367	Pass		
5755	4			36.517	Pass		
	3			36.559	Pass		
5795	4			36.877	Pass		
	3			36.578	Pass		
5795	4			36.792	Pass		
	3			36.578	Pass		
802.11ac (VHT80)	MIMO			5210	4	75.777	Pass
					3	75.388	Pass
				5775	4	76.068	Pass
					3	75.810	Pass

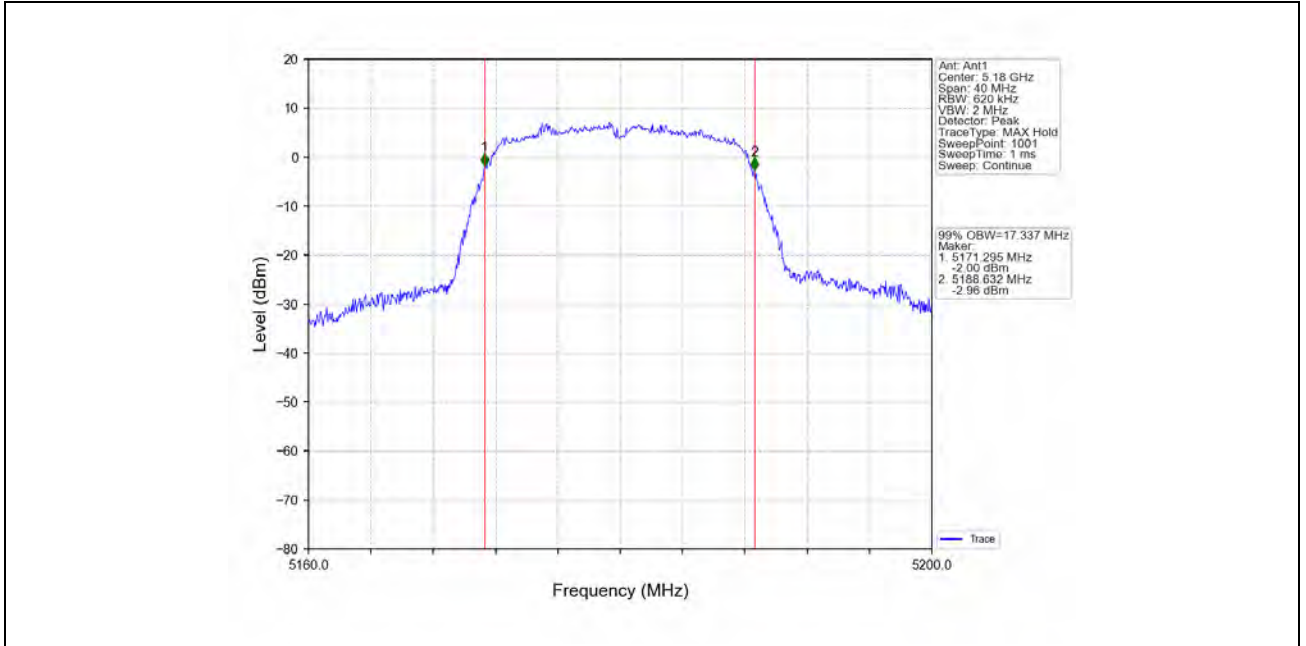
2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant3_NTNV

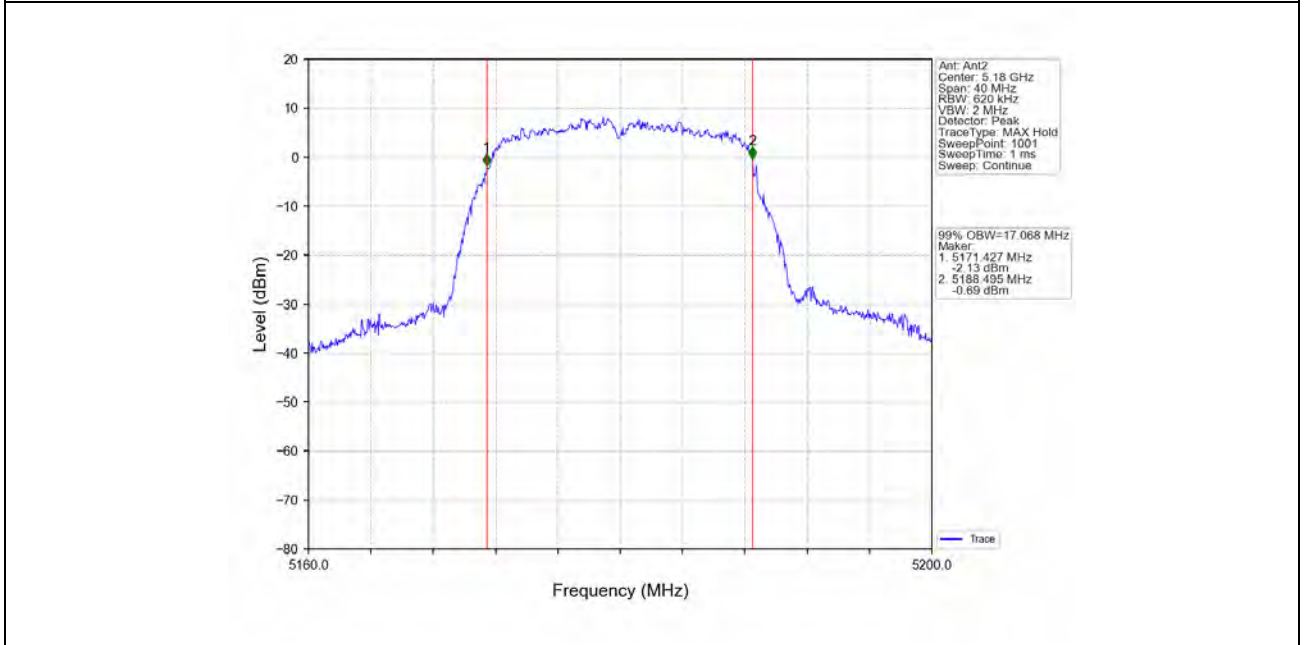


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802.11a_LCH_5180MHz_Ant4_NTNV

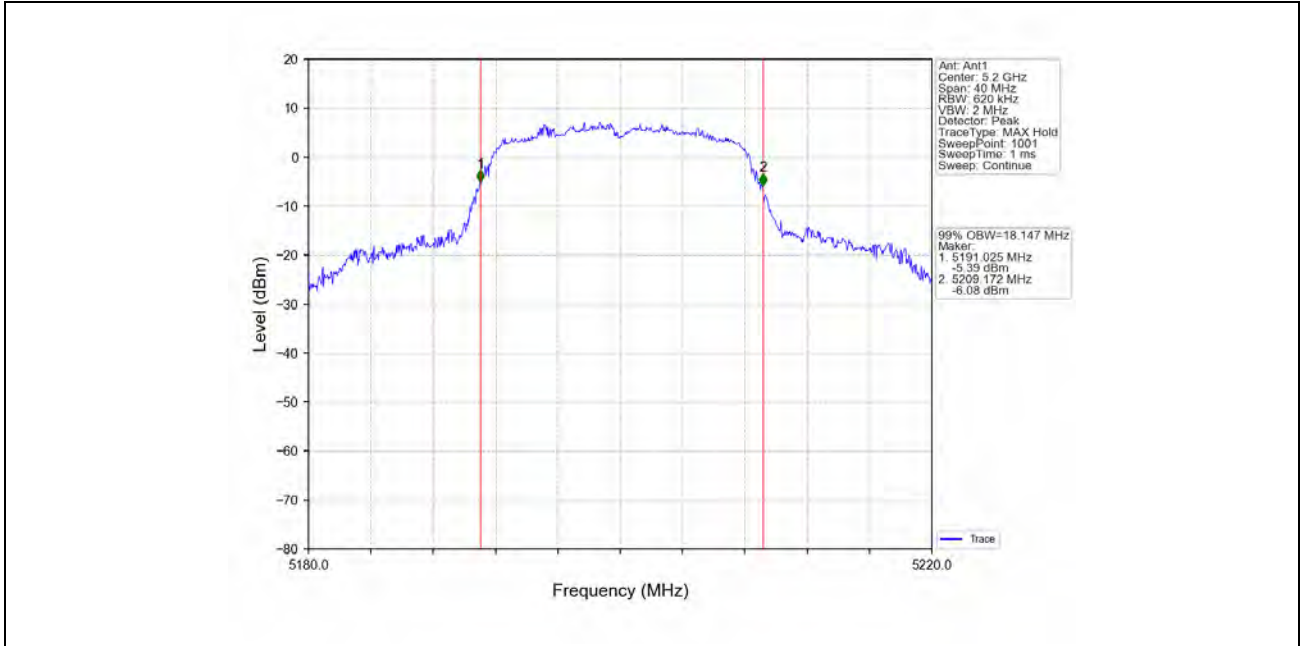


802.11a_MCH_5200MHz_Ant3_NTNV

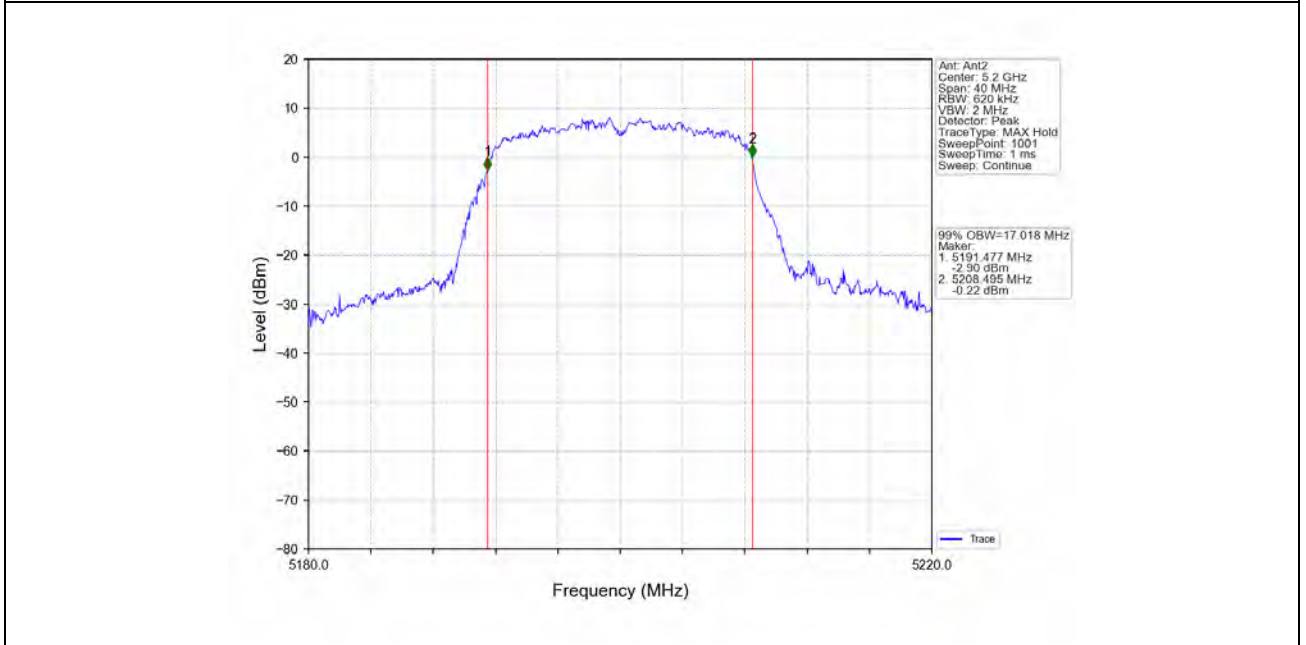


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802.11a_MCH_5200MHz_Ant4_NTNV



802.11a_HCH_5240MHz_Ant3_NTNV

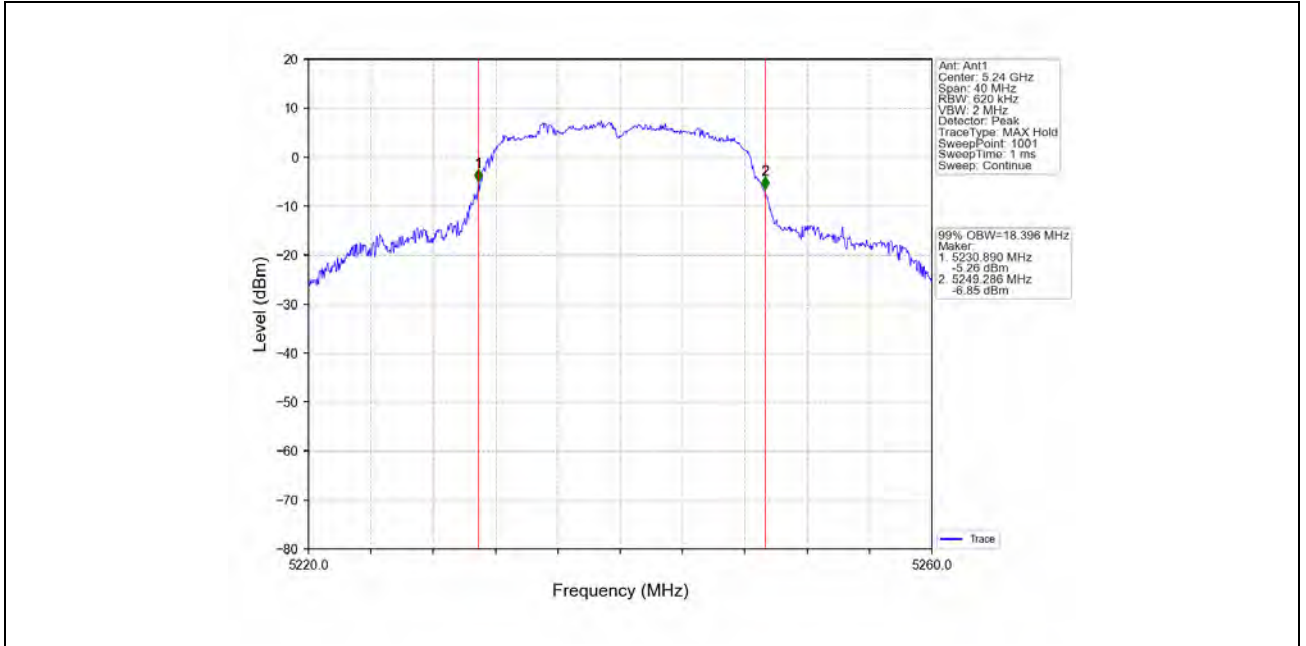


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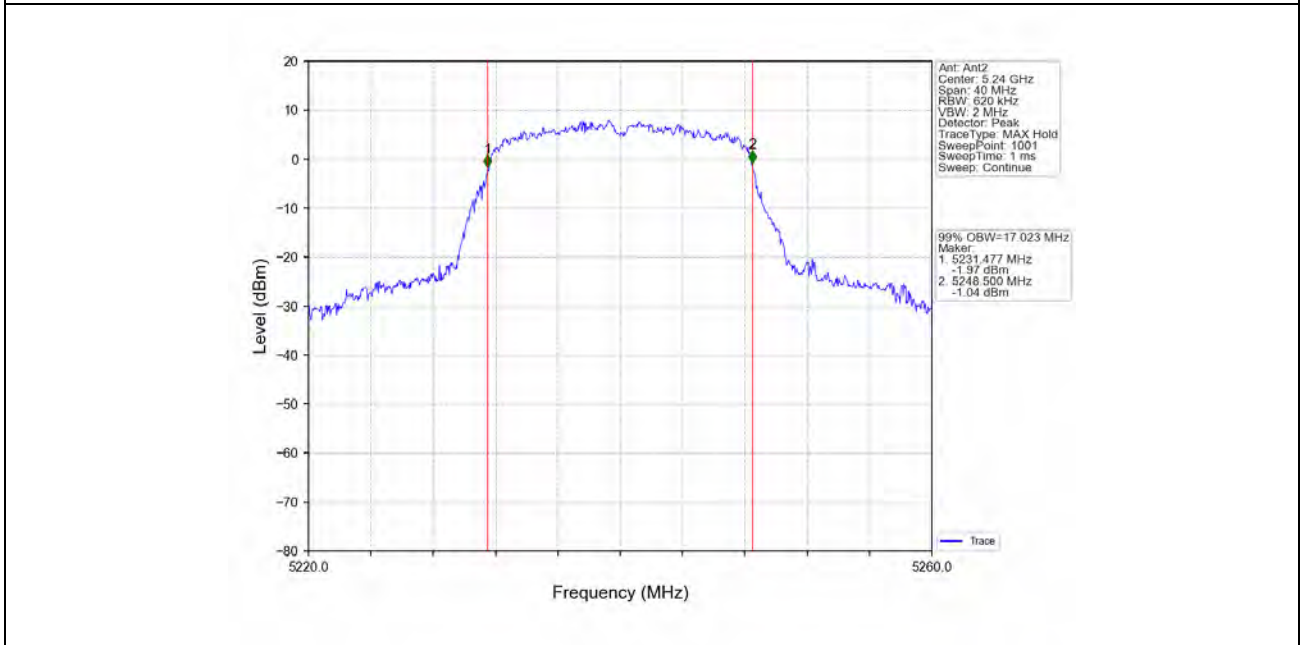
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802.11a_HCH_5240MHz_Ant4_NTNV

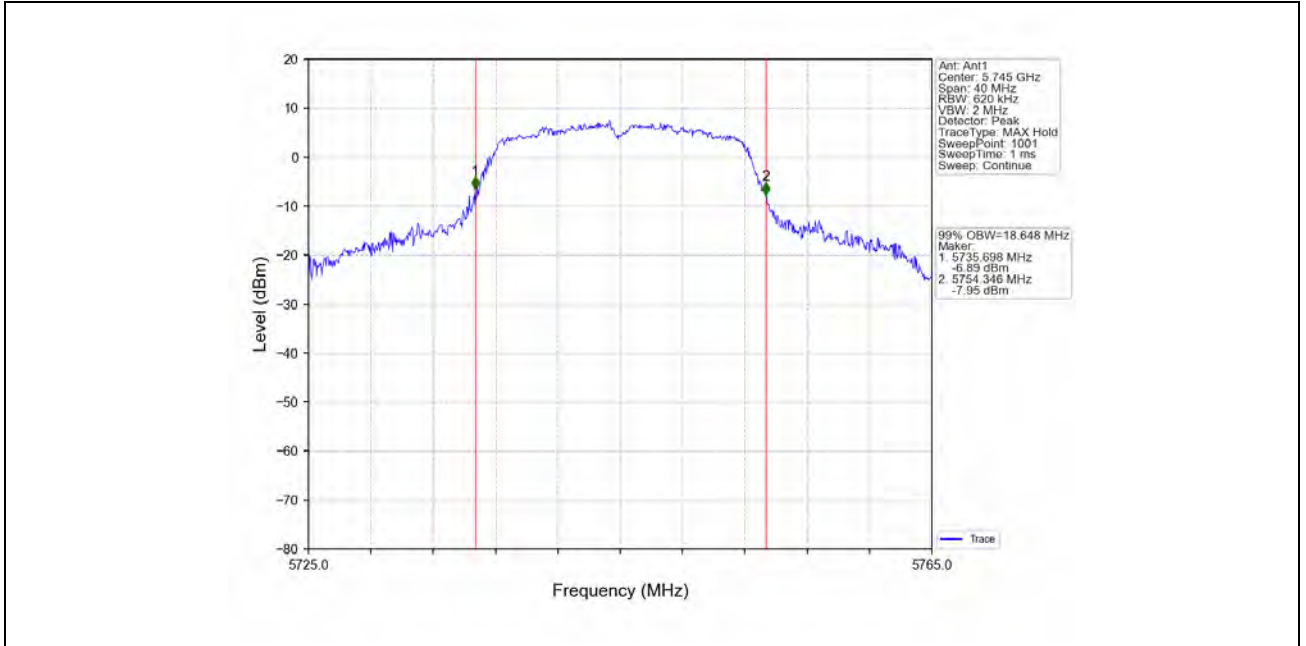


802.11a_LCH_5745MHz_Ant3_NTNV

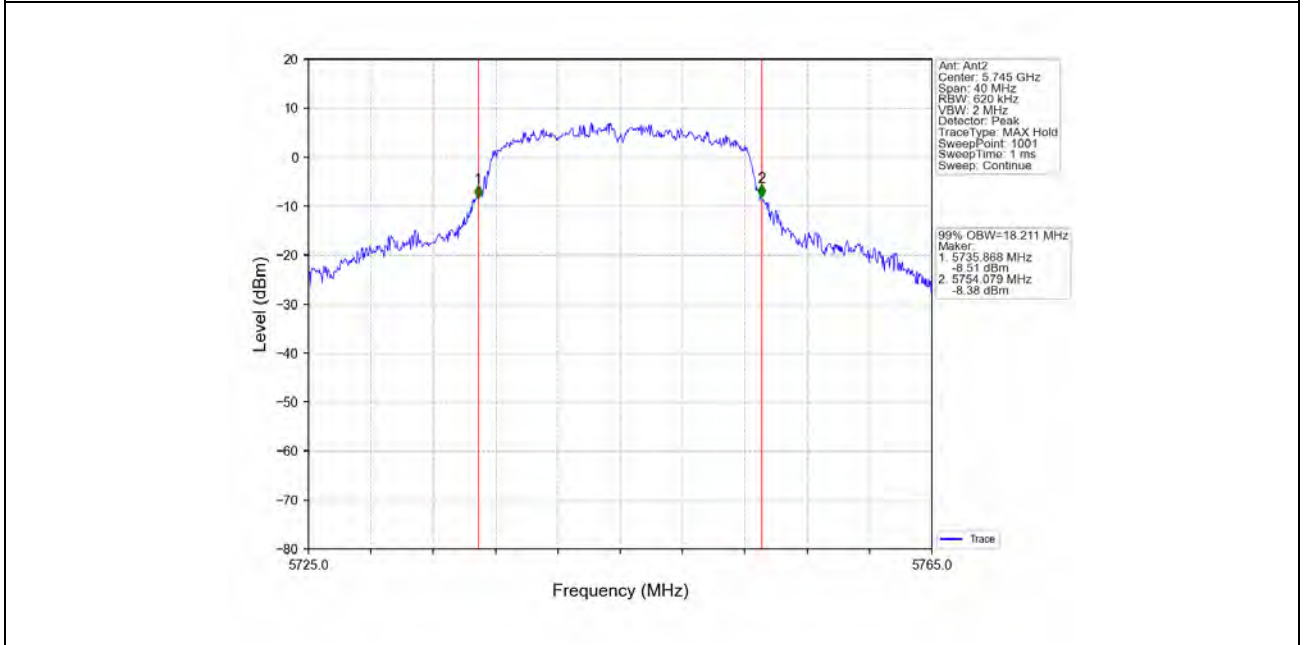


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802.11a_LCH_5745MHz_Ant4_NTNV



802.11a_MCH_5785MHz_Ant3_NTNV

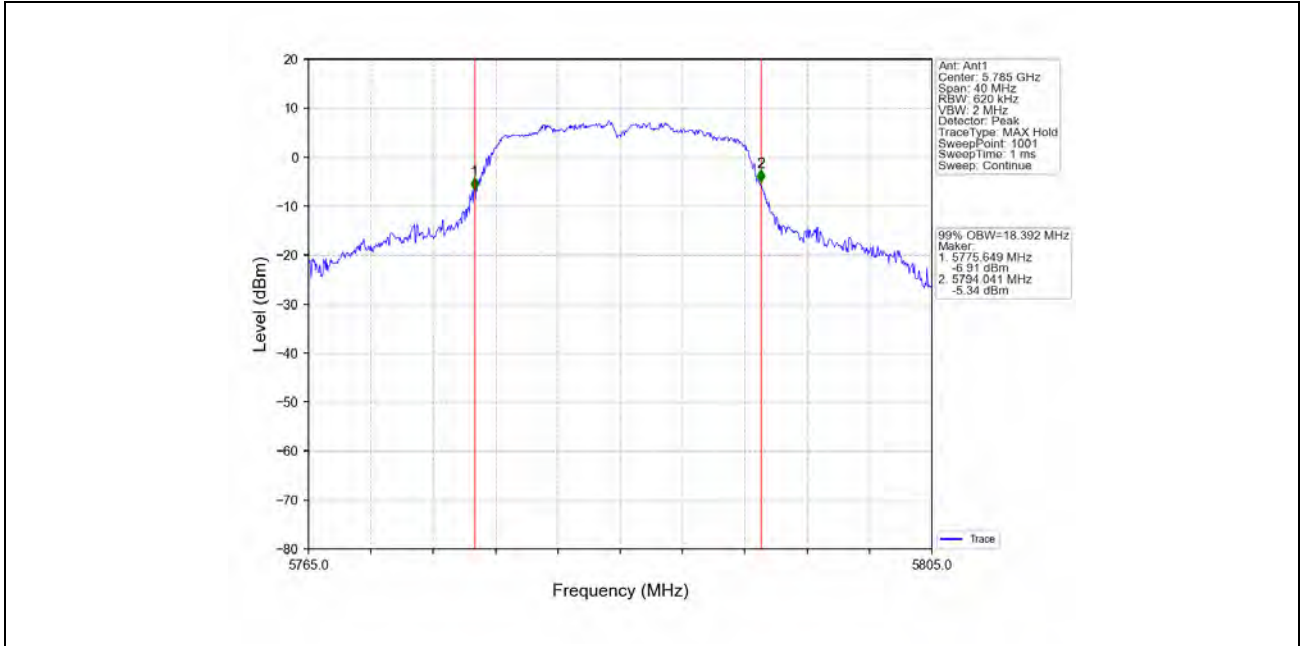


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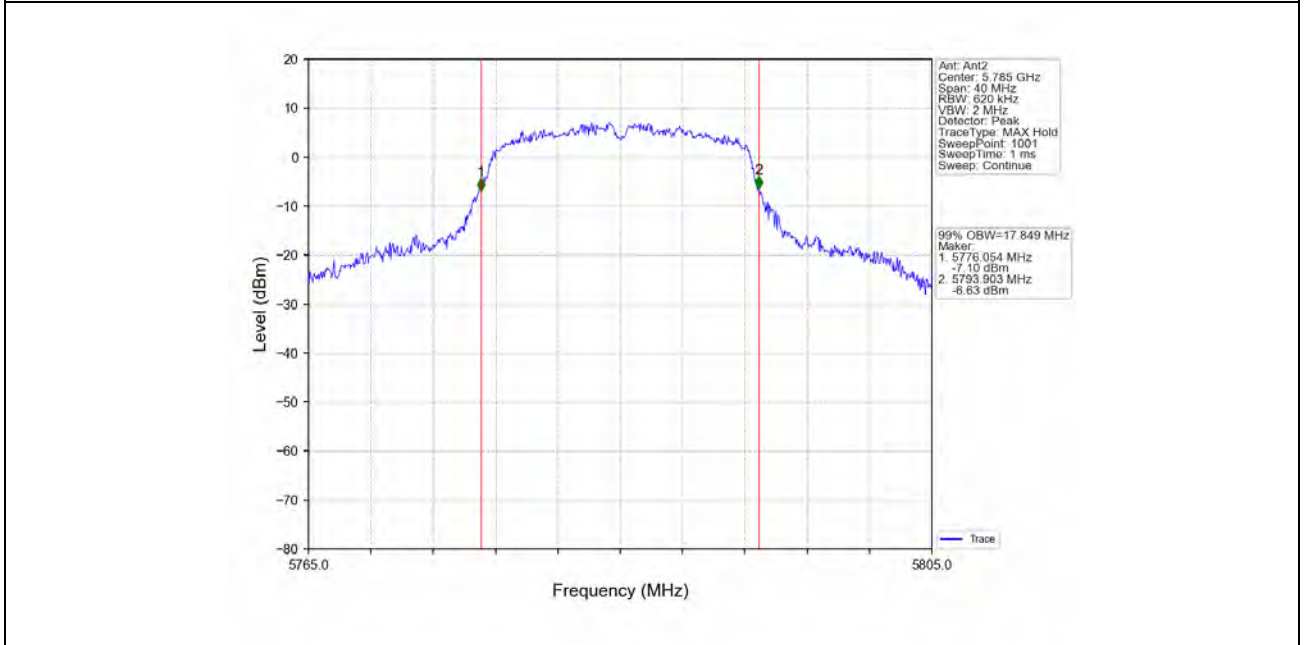
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802.11a_HCH_5825MHz_Ant3_NTNV

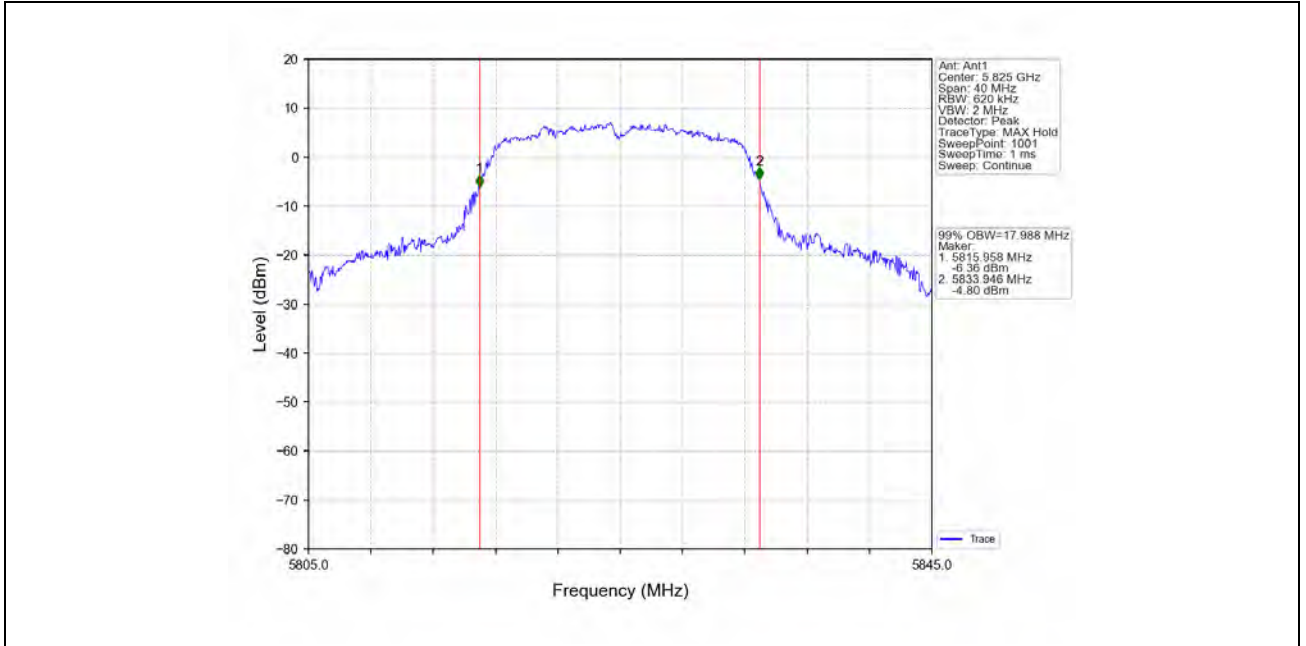


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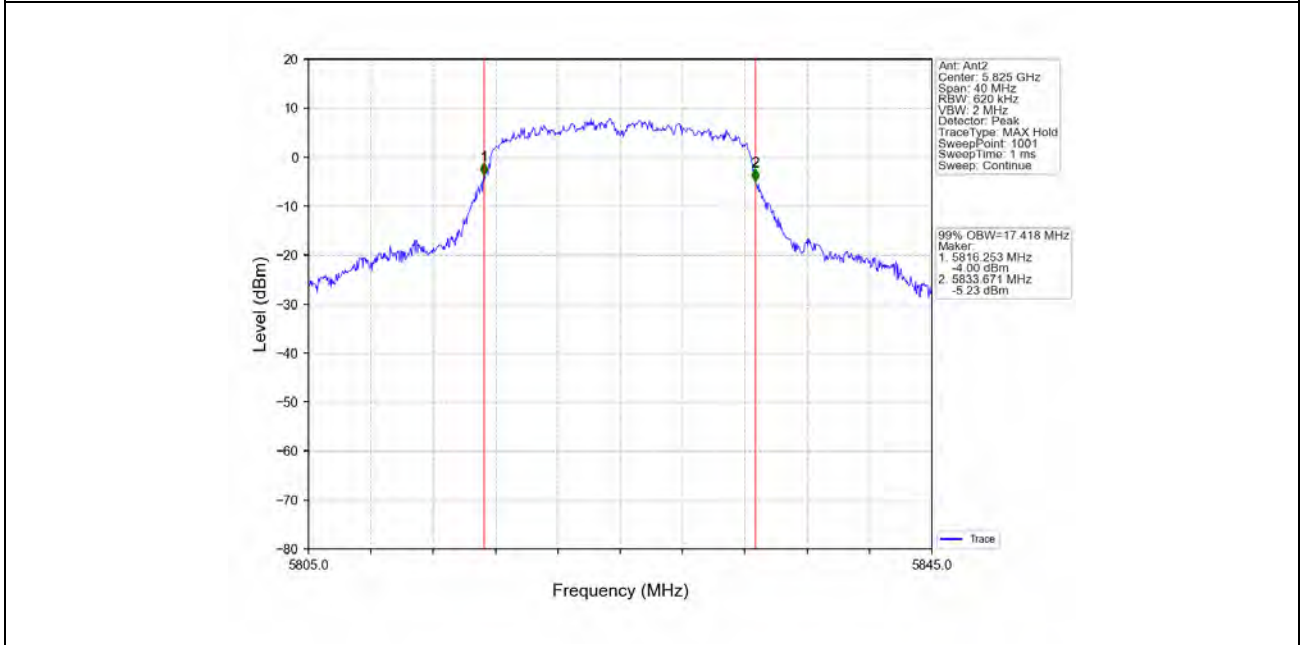
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802.11a_HCH_5825MHz_Ant4_NTNV

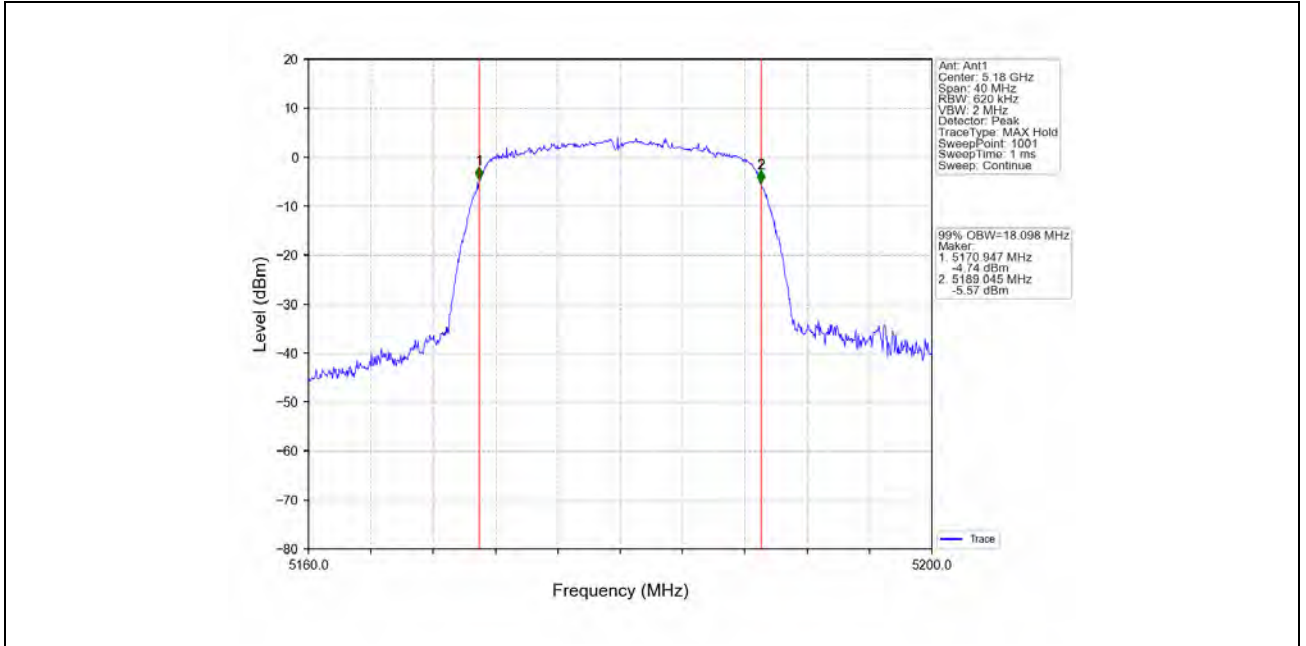


802.11n(HT20)_LCH_5180MHz_Ant3_NTNV

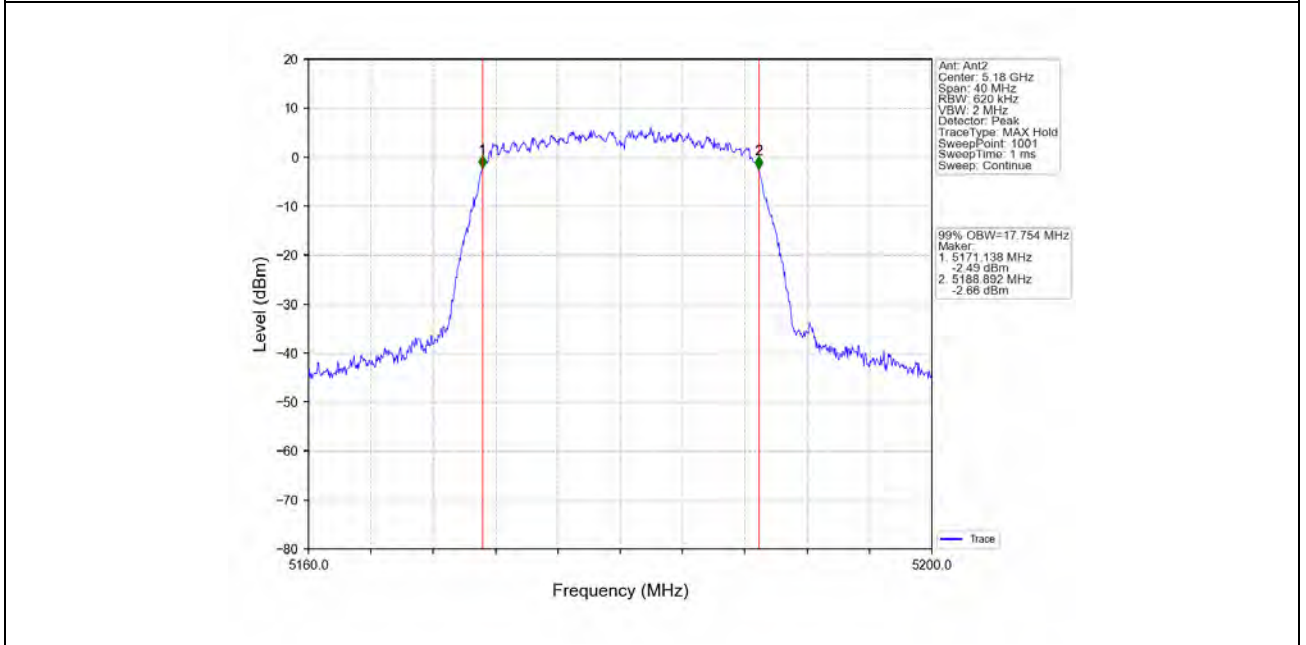


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802.11n(HT20)_LCH_5180MHz_Ant4_NTNV



802.11n(HT20)_MCH_5200MHz_Ant3_NTNV

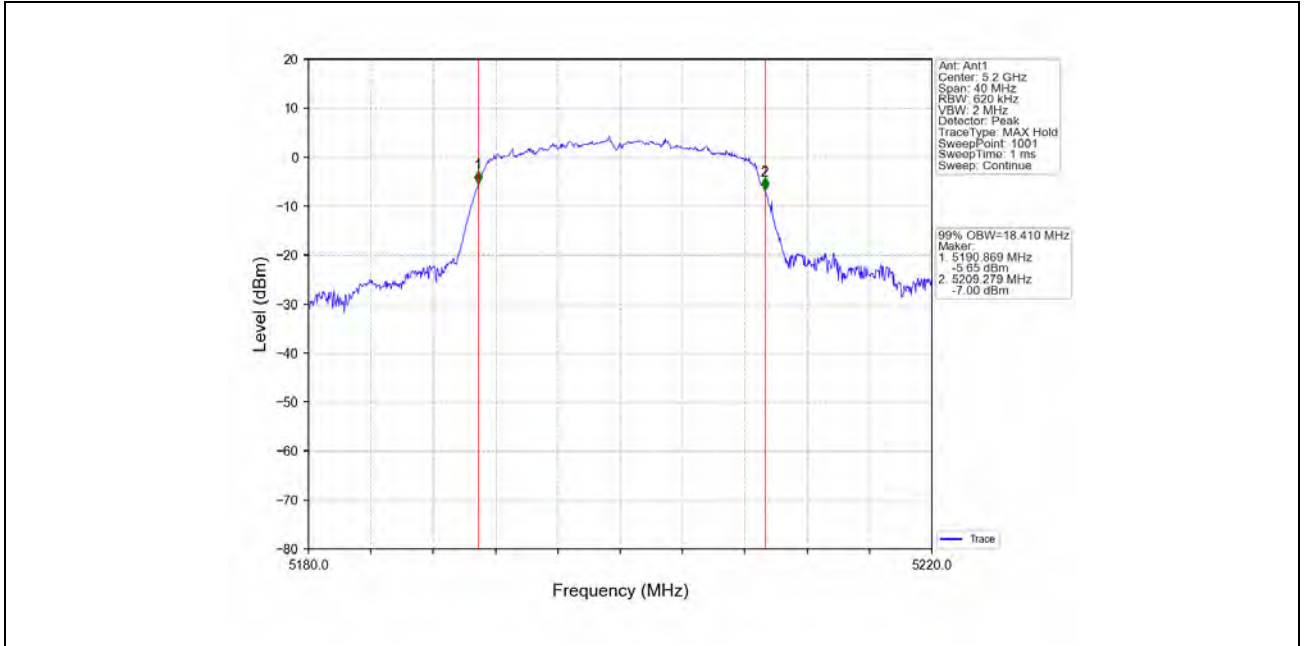


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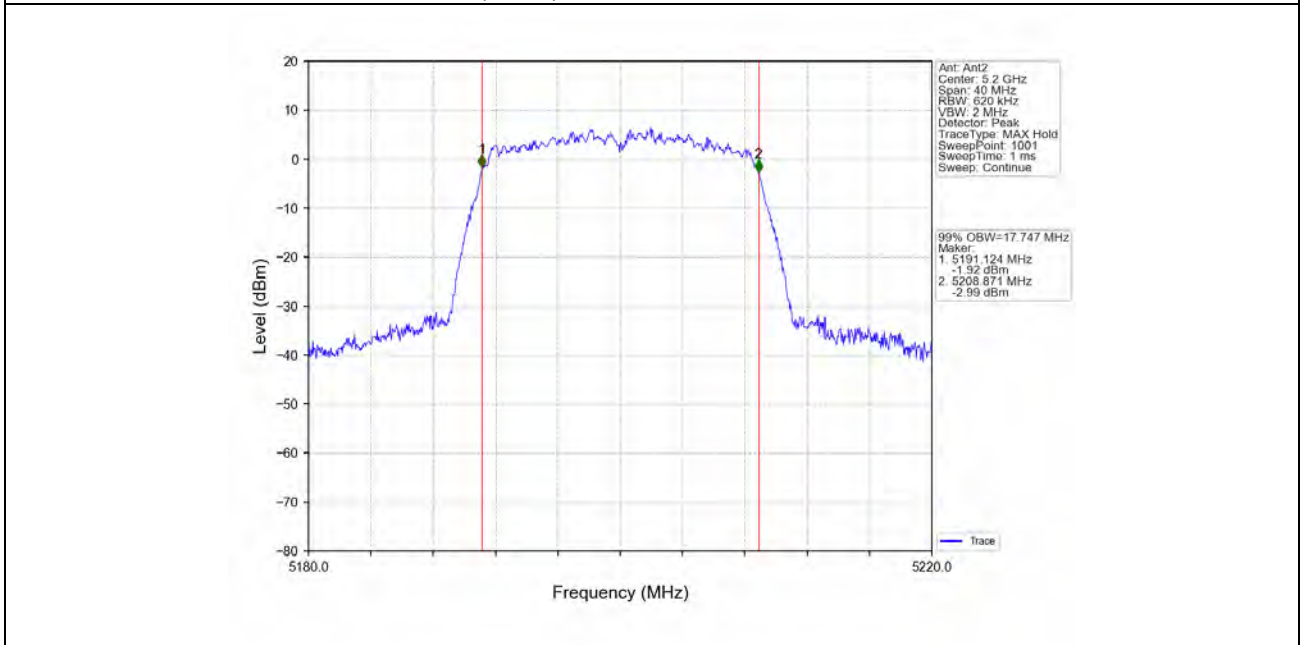
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802.11n(HT20)_MCH_5200MHz_Ant4_NTNV

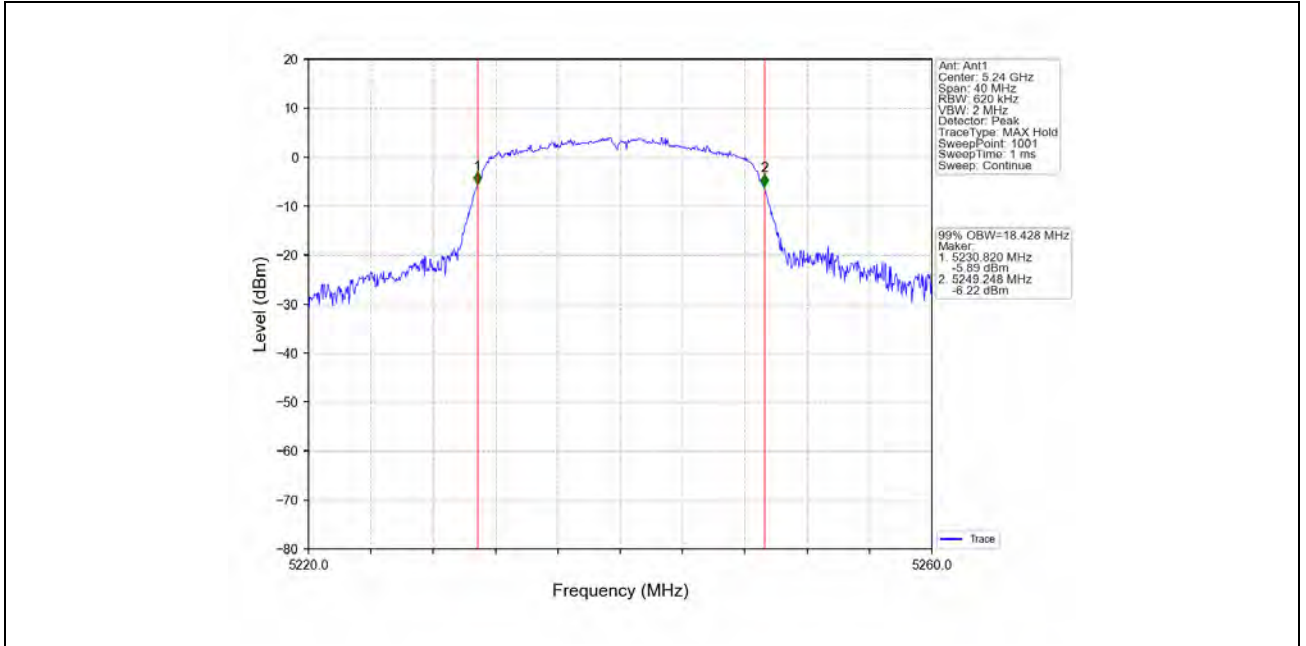


802.11n(HT20)_HCH_5240MHz_Ant3_NTNV

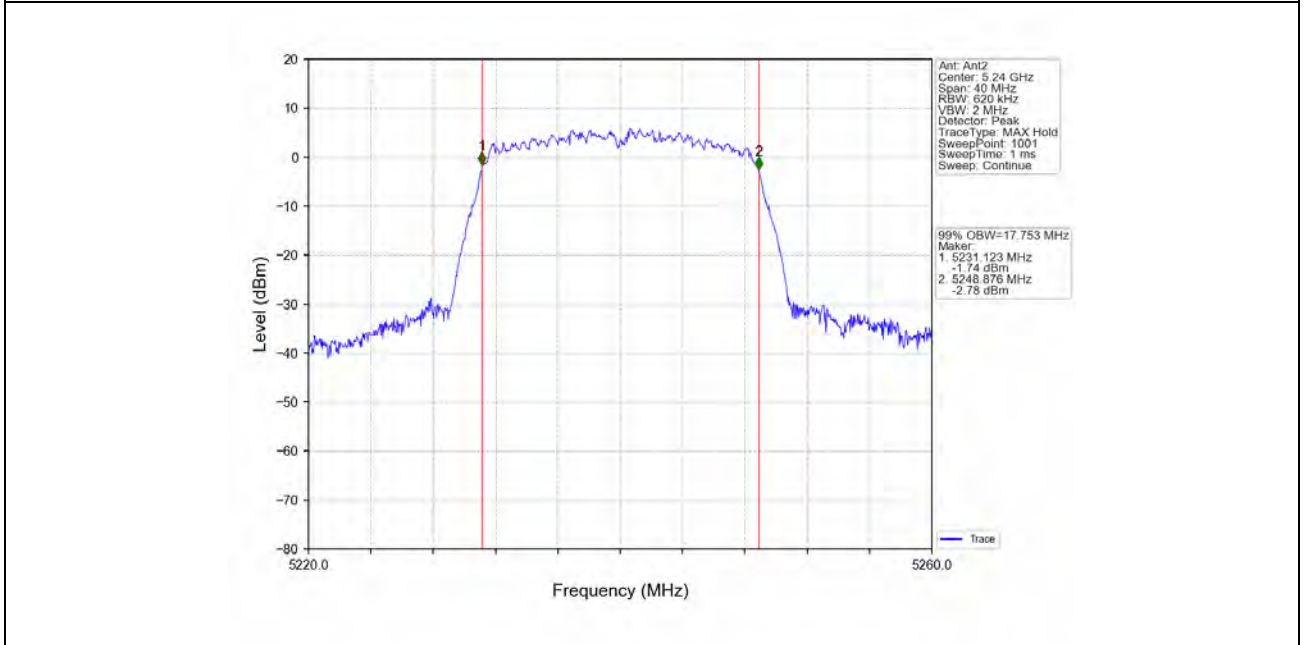


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802.11n(HT20)_HCH_5240MHz_Ant4_NTNV



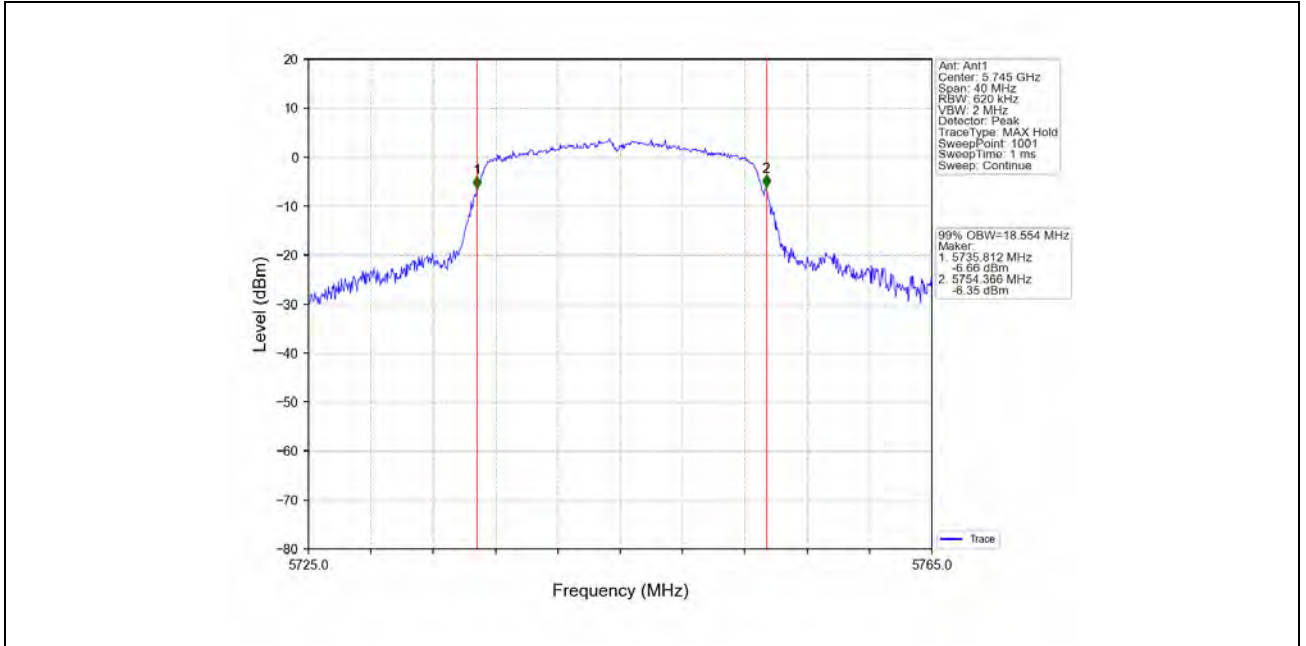
802.11n(HT20)_LCH_5745MHz_Ant3_NTNV



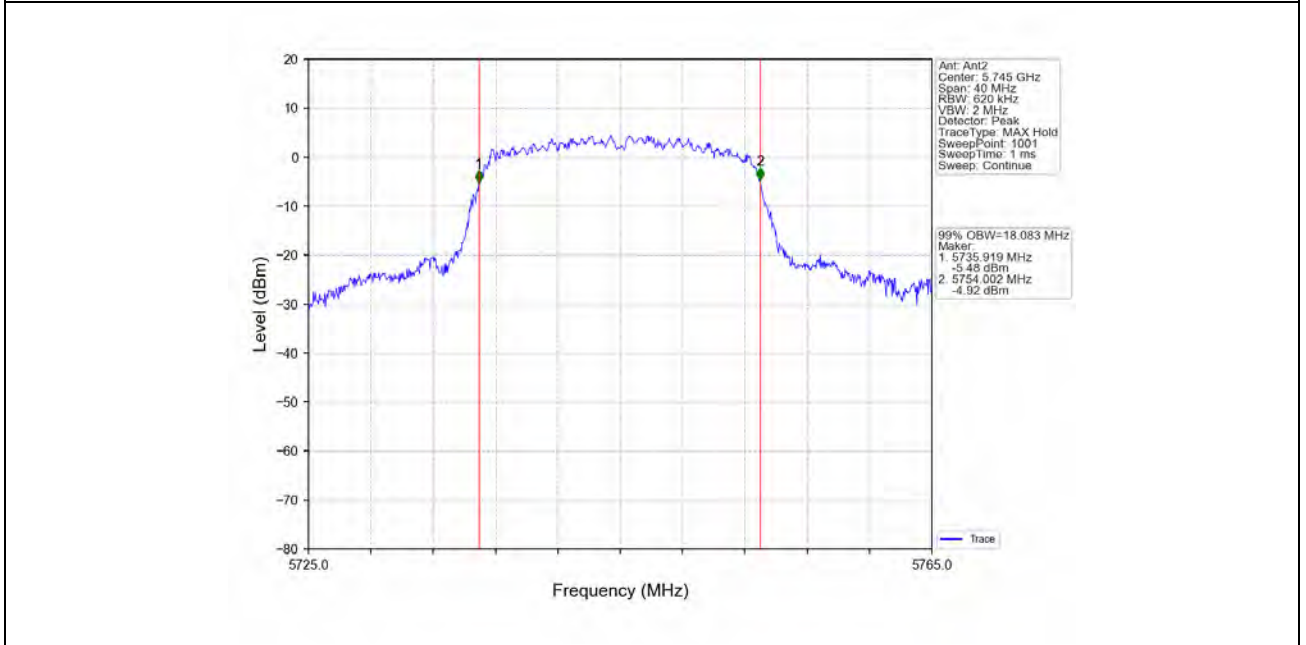
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802.11n(HT20)_LCH_5745MHz_Ant4_NTNV



802.11n(HT20)_MCH_5785MHz_Ant3_NTNV

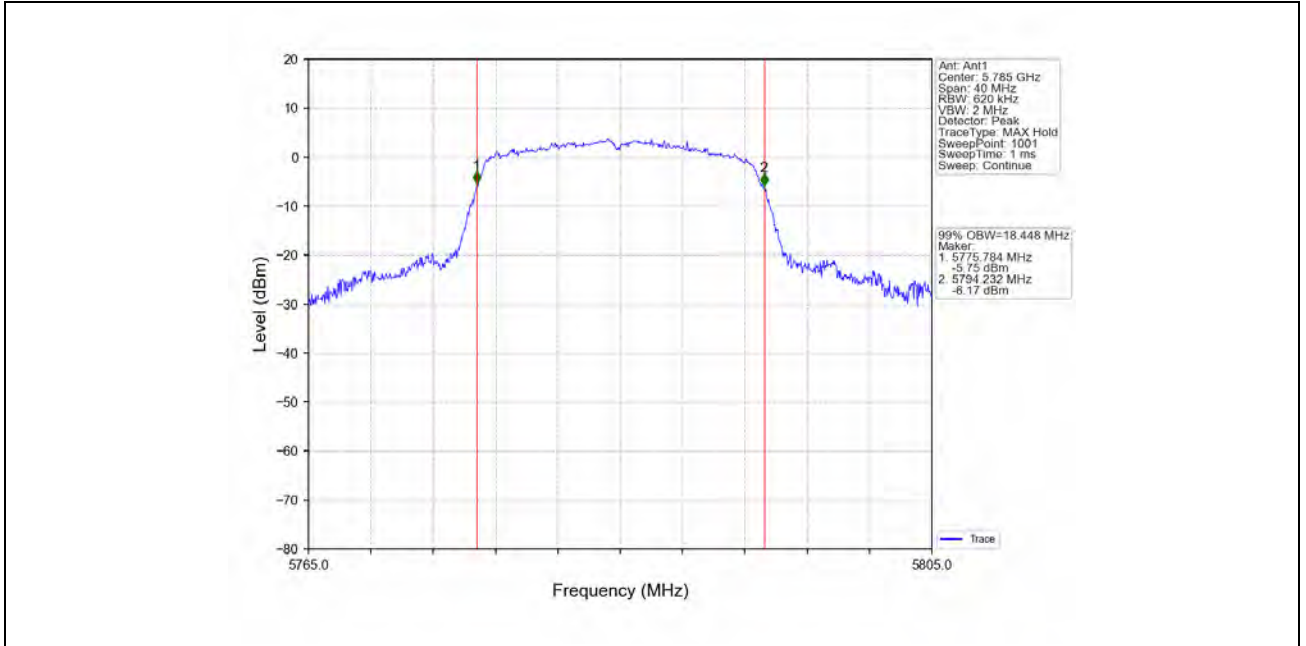


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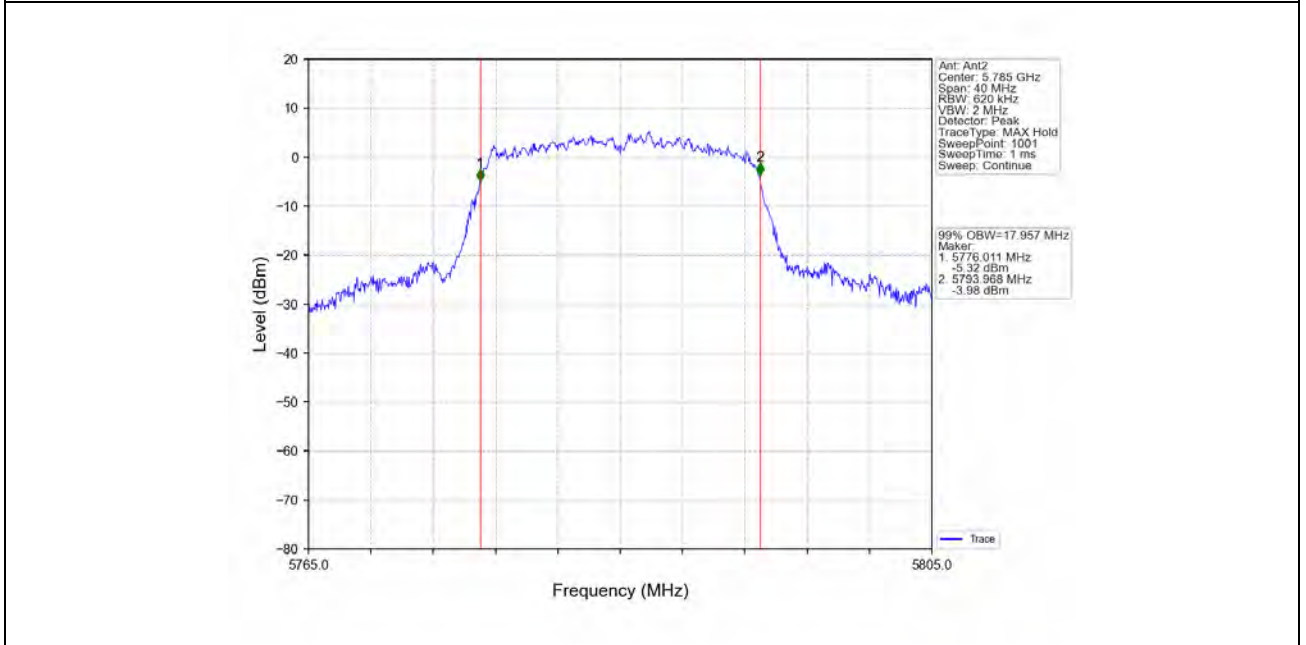
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802.11n(HT20)_MCH_5785MHz_Ant4_NTNV



802.11n(HT20)_HCH_5825MHz_Ant3_NTNV



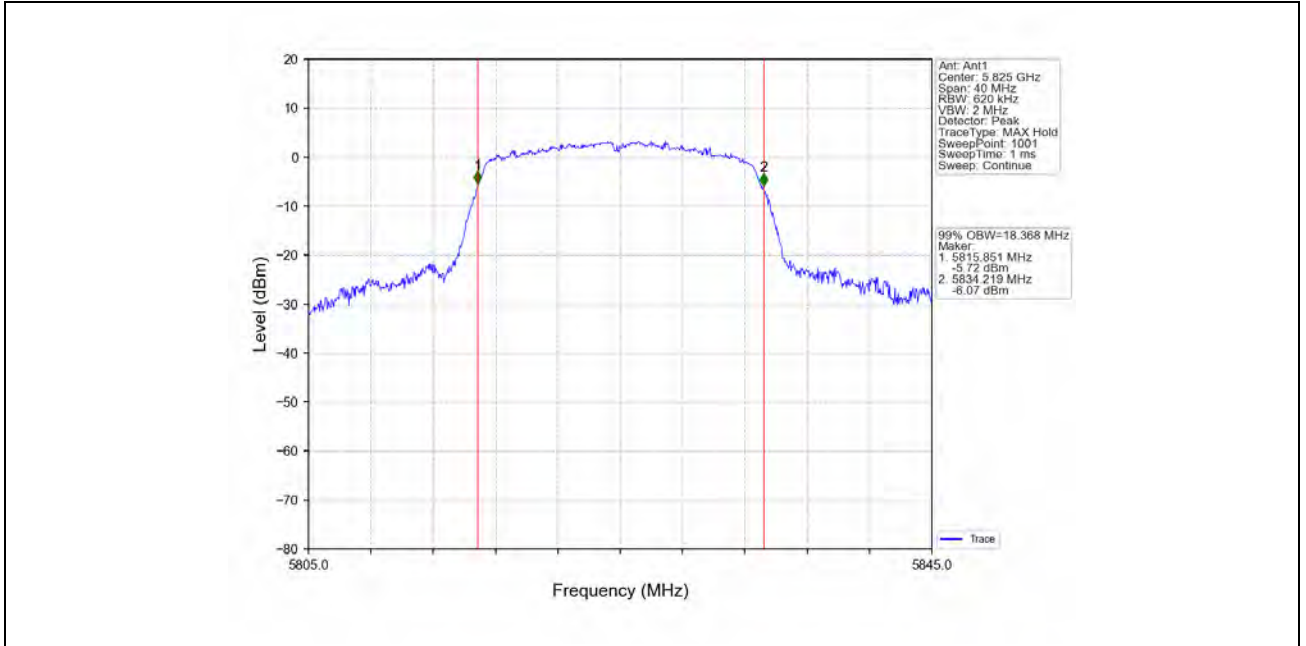
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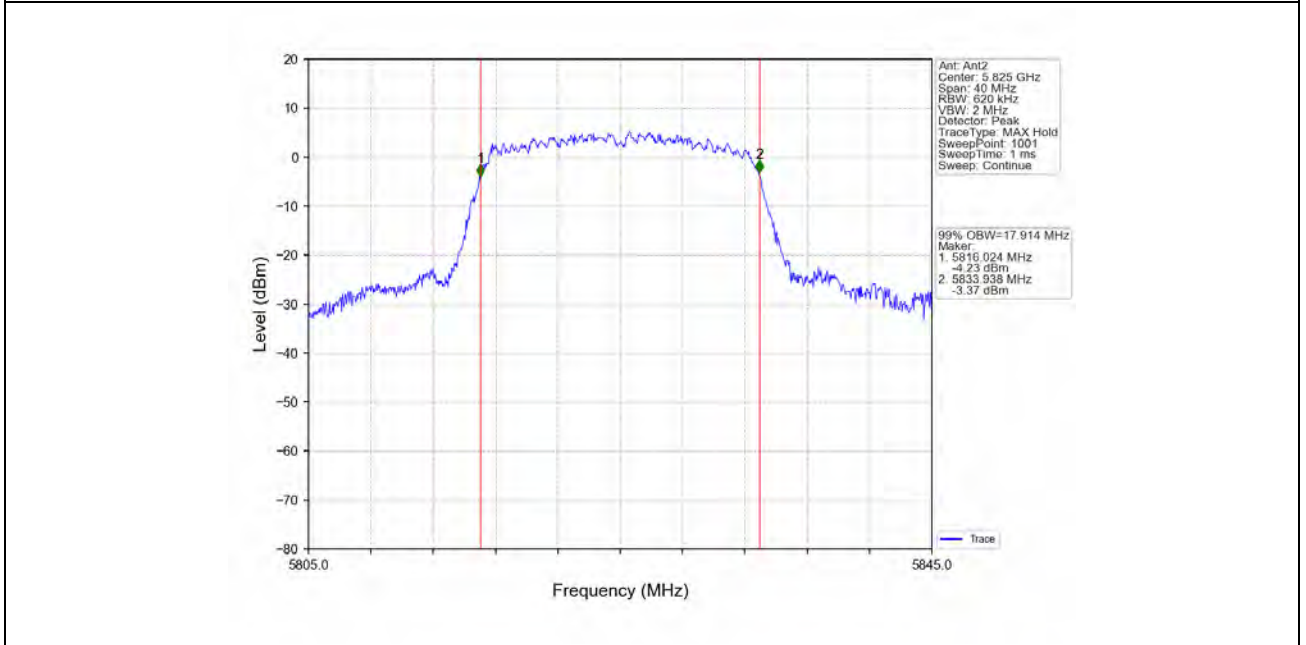
Compliance Certification Services (Kunshan) Inc.
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802.11n(HT20)_HCH_5825MHz_Ant4_NTNV



802.11n(HT40)_LCH_5190MHz_Ant3_NTNV

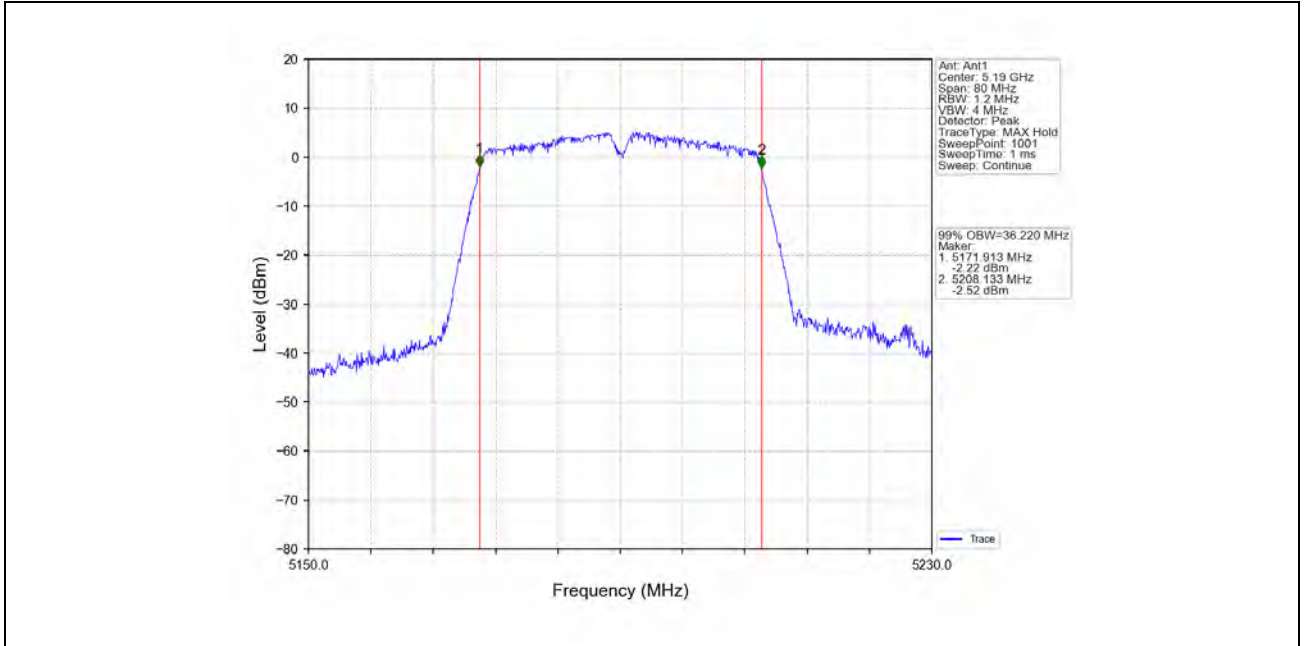


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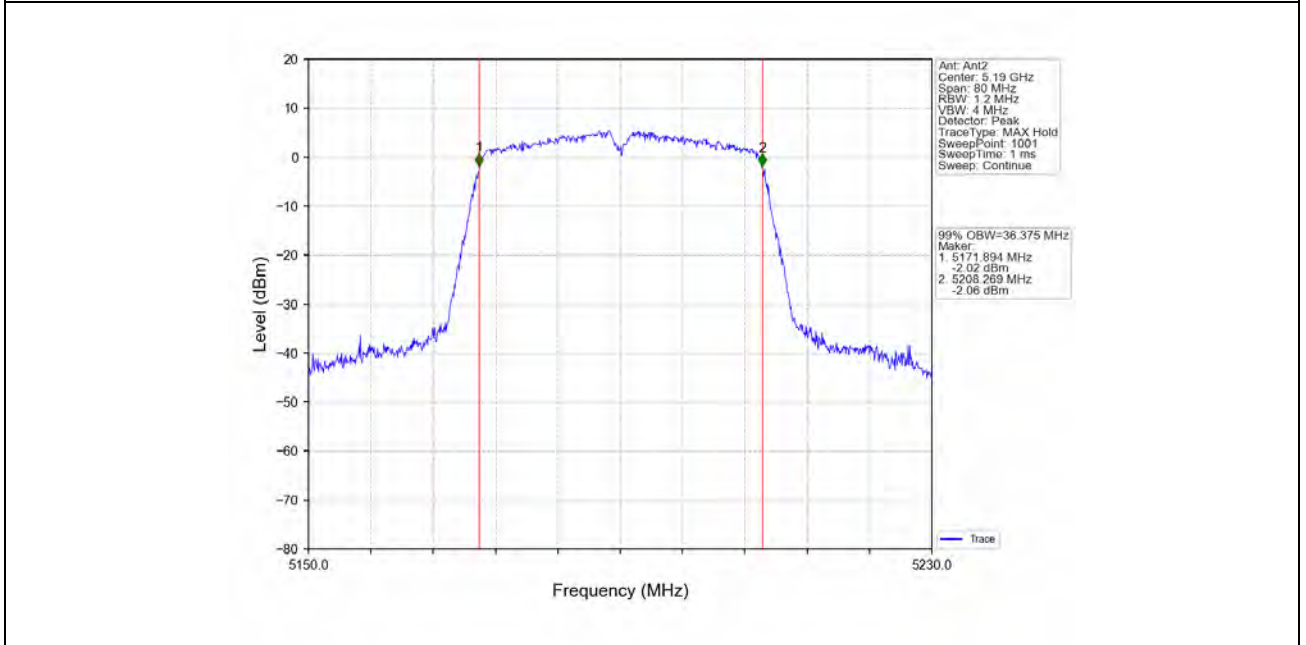
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802.11n(HT40)_LCH_5190MHz_Ant4_NTNV



802.11n(HT40)_HCH_5230MHz_Ant3_NTNV

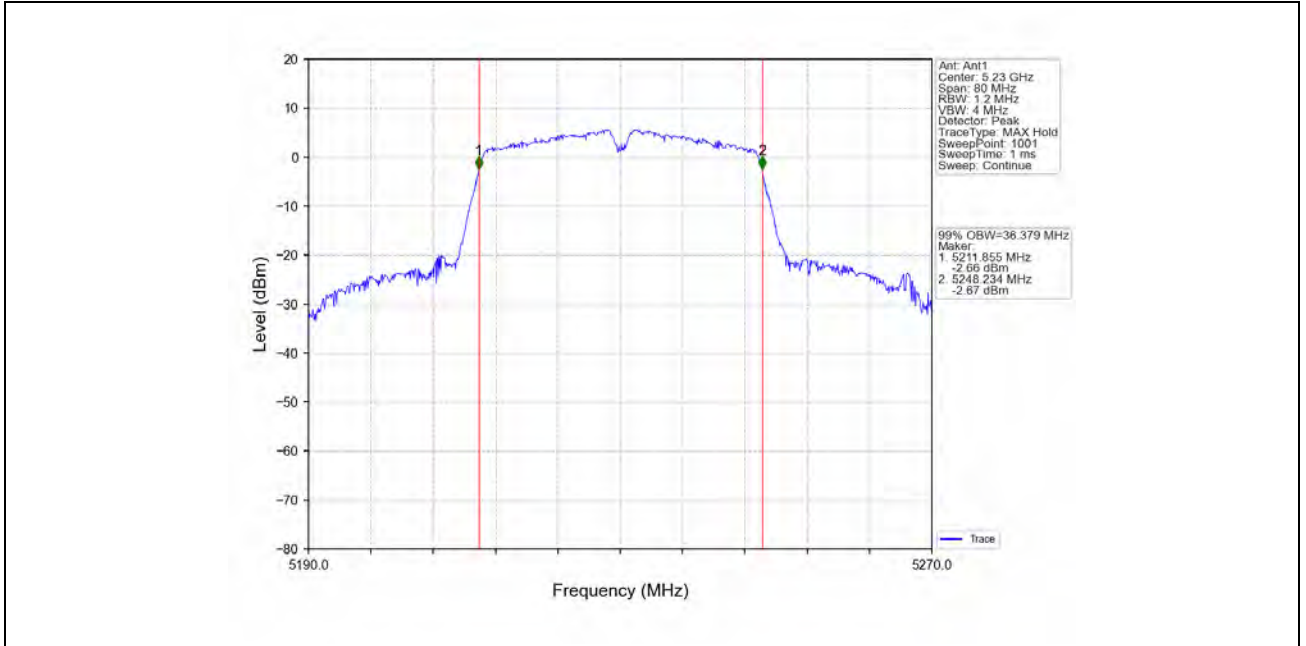


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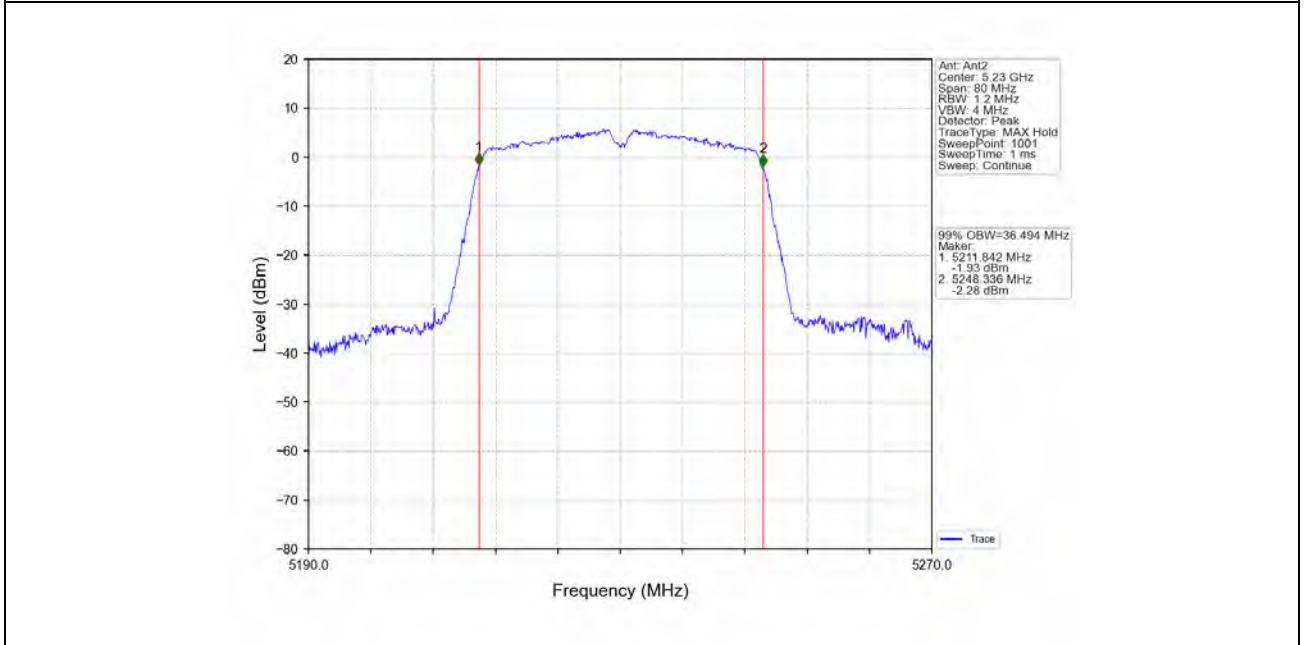
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802.11n(HT40)_HCH_5230MHz_Ant4_NTNV



802.11n(HT40)_LCH_5755MHz_Ant3_NTNV

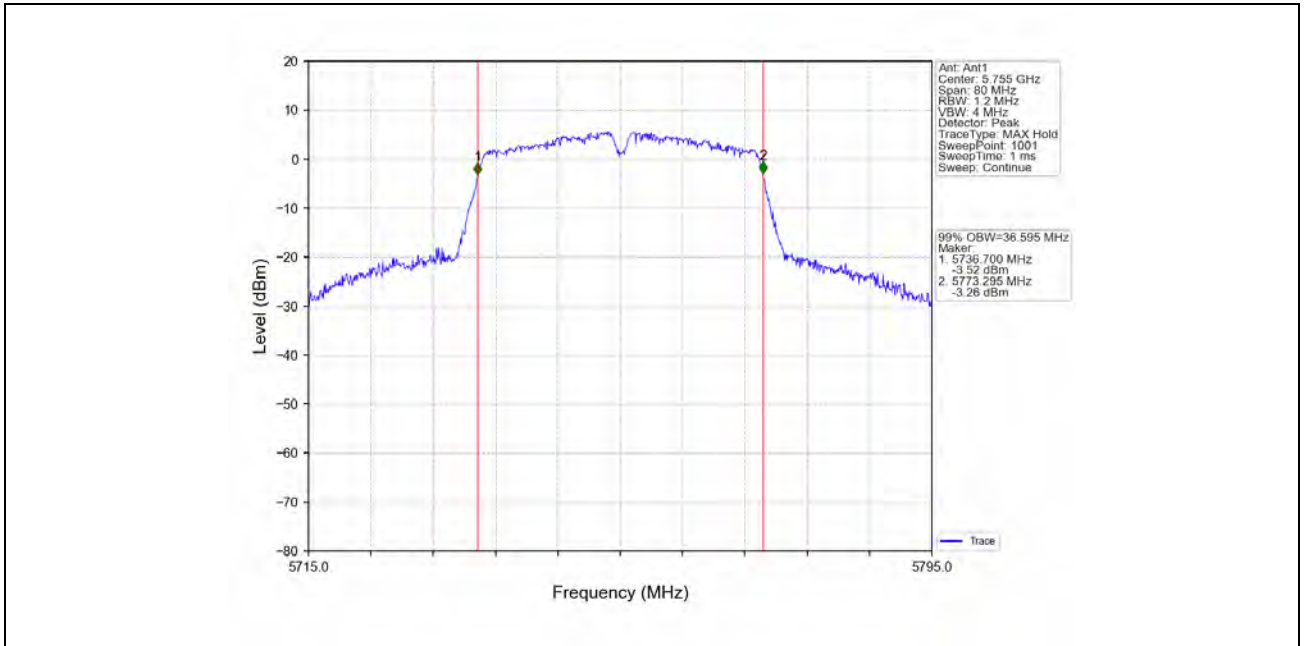


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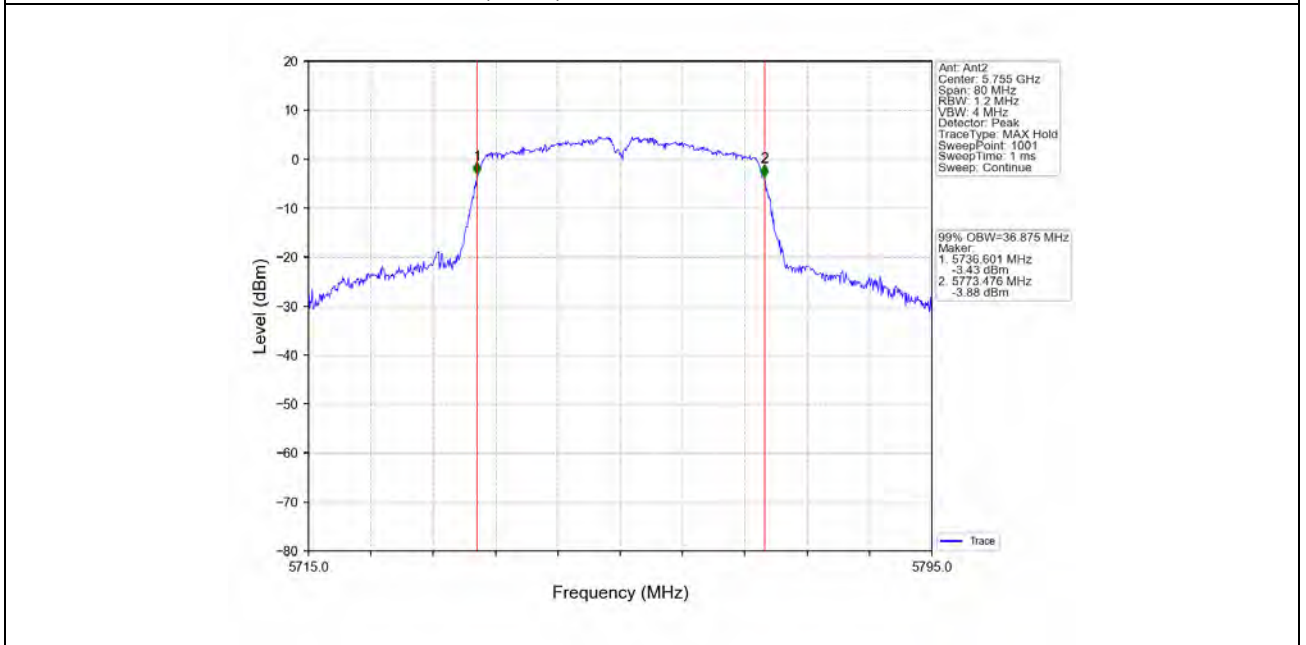
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802.11n(HT40)_LCH_5755MHz_Ant4_NTNV



802.11n(HT40)_HCH_5795MHz_Ant3_NTNV

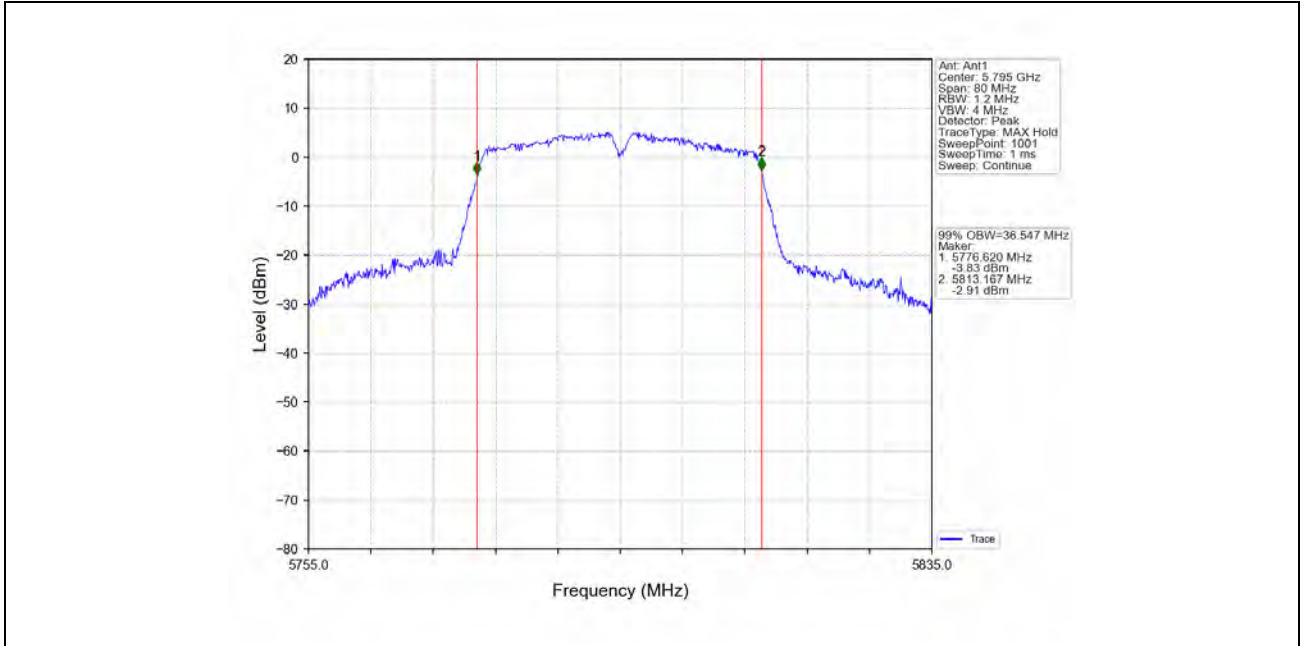


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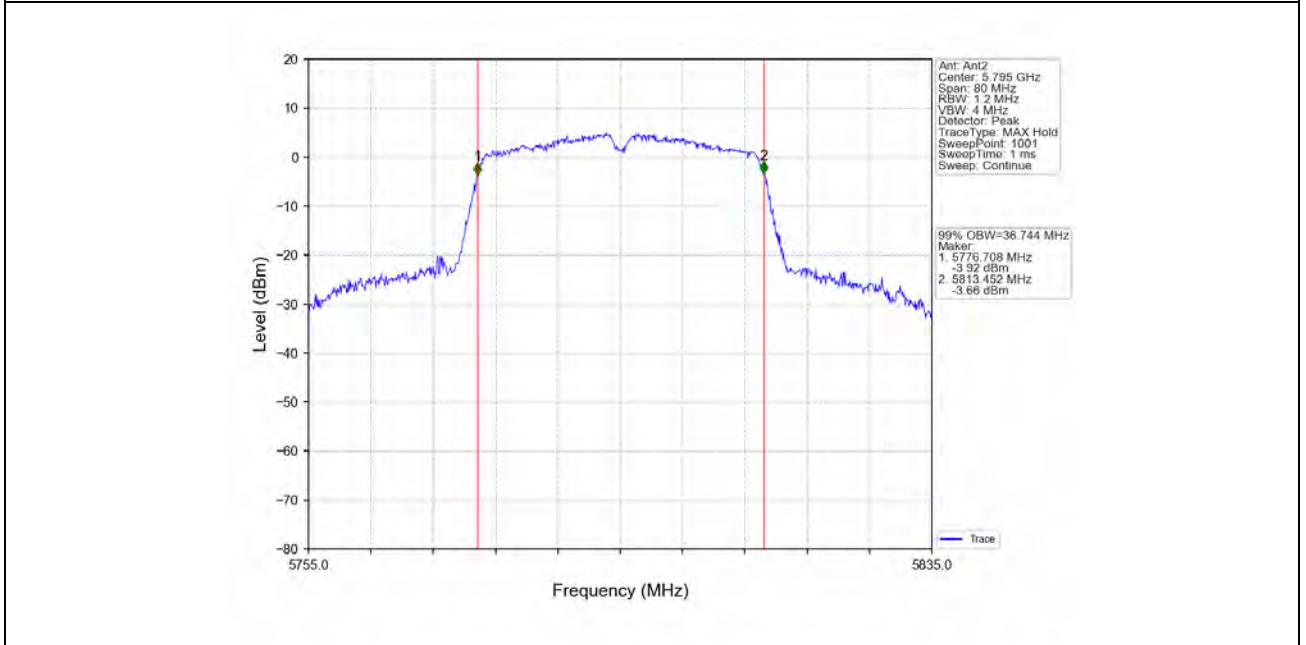
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802.11n(HT40)_HCH_5795MHz_Ant4_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant3_NTNV

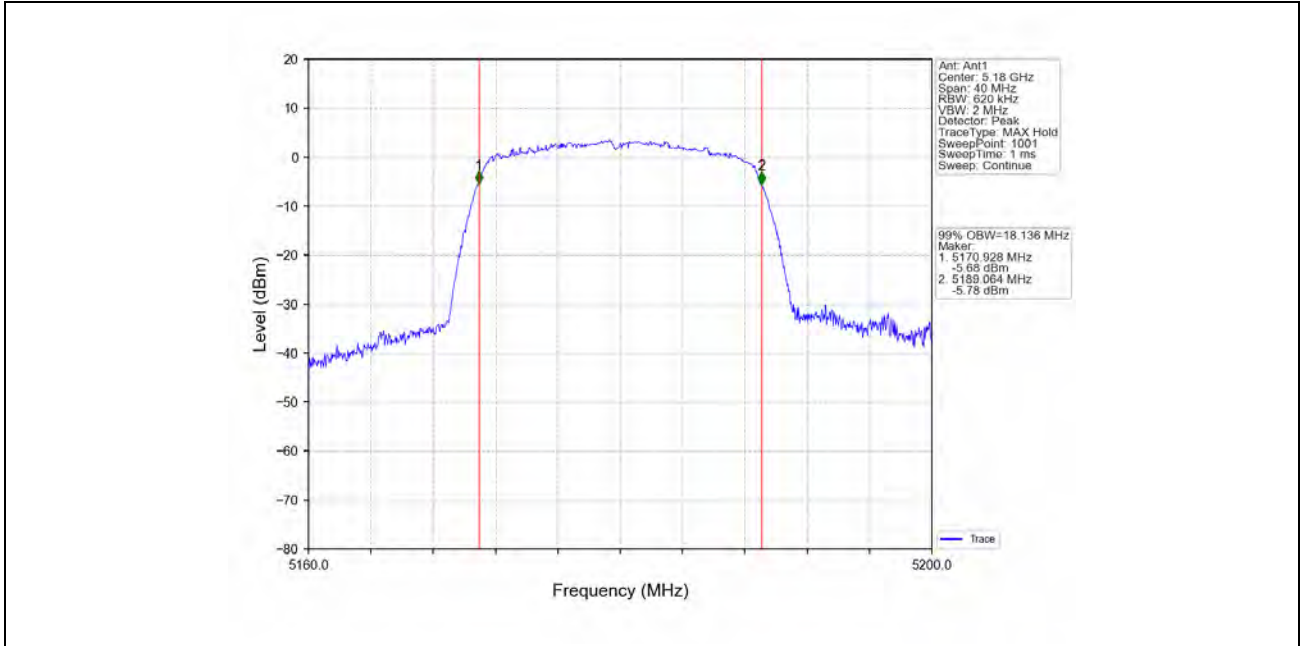


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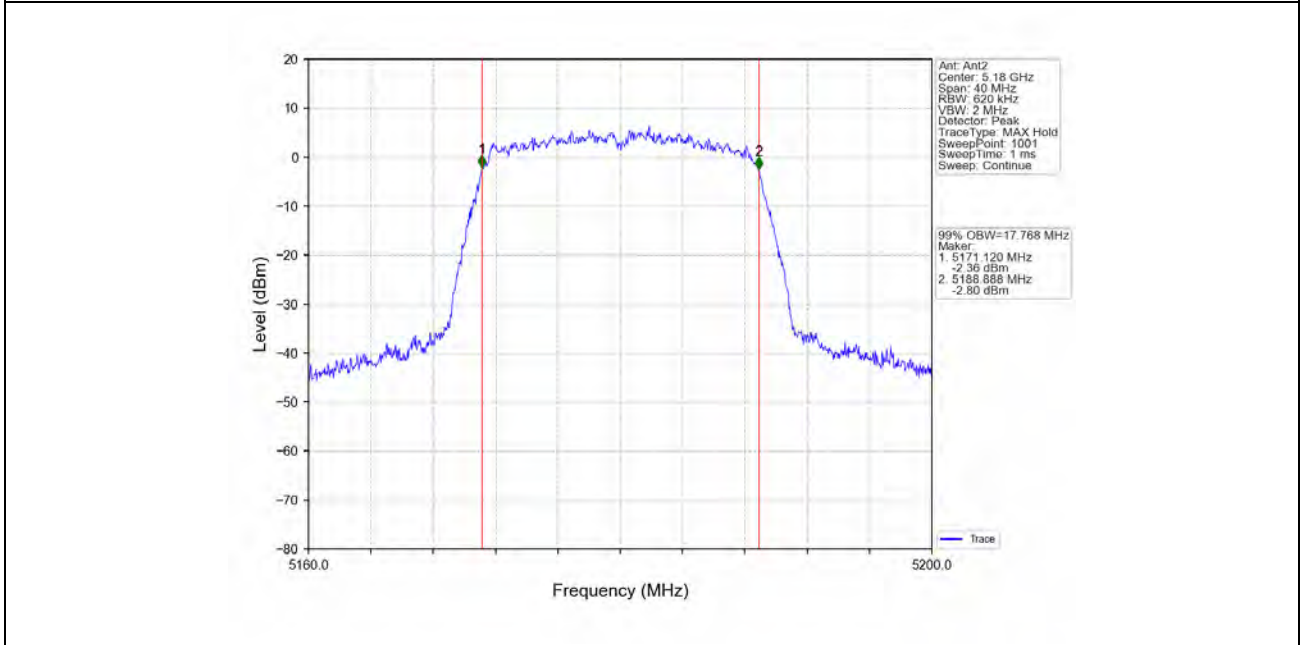
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802.11ac(VHT20)_LCH_5180MHz_Ant4_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant3_NTNV

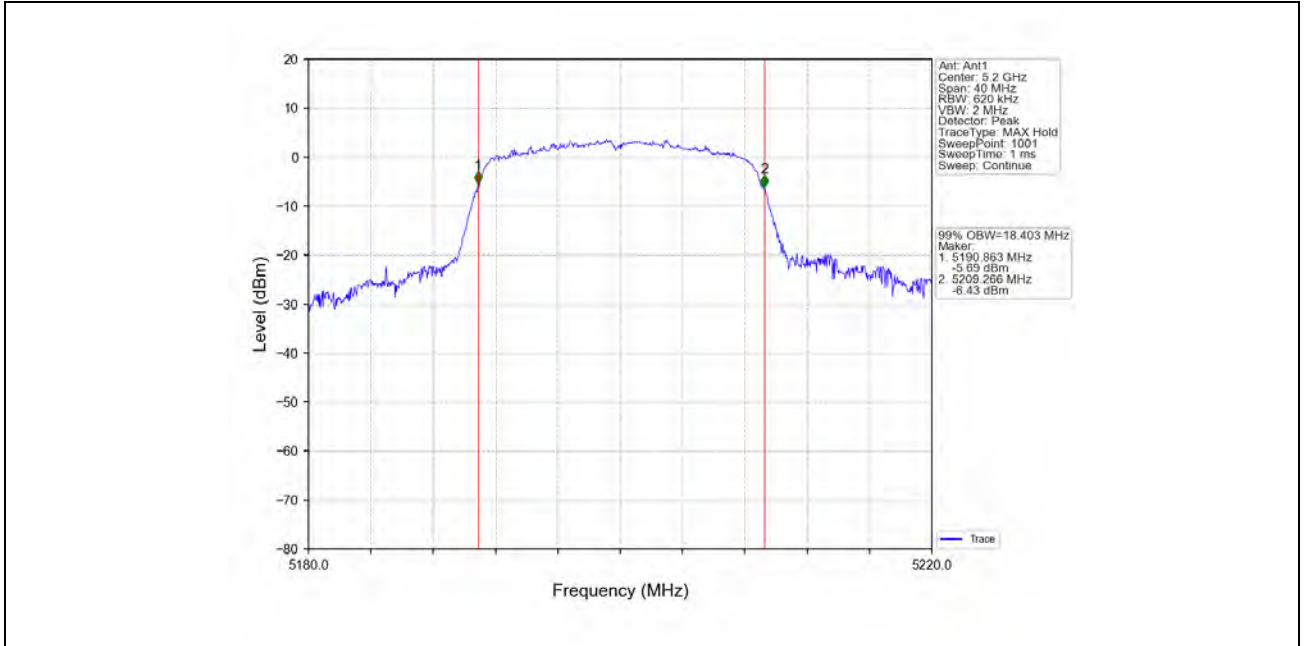


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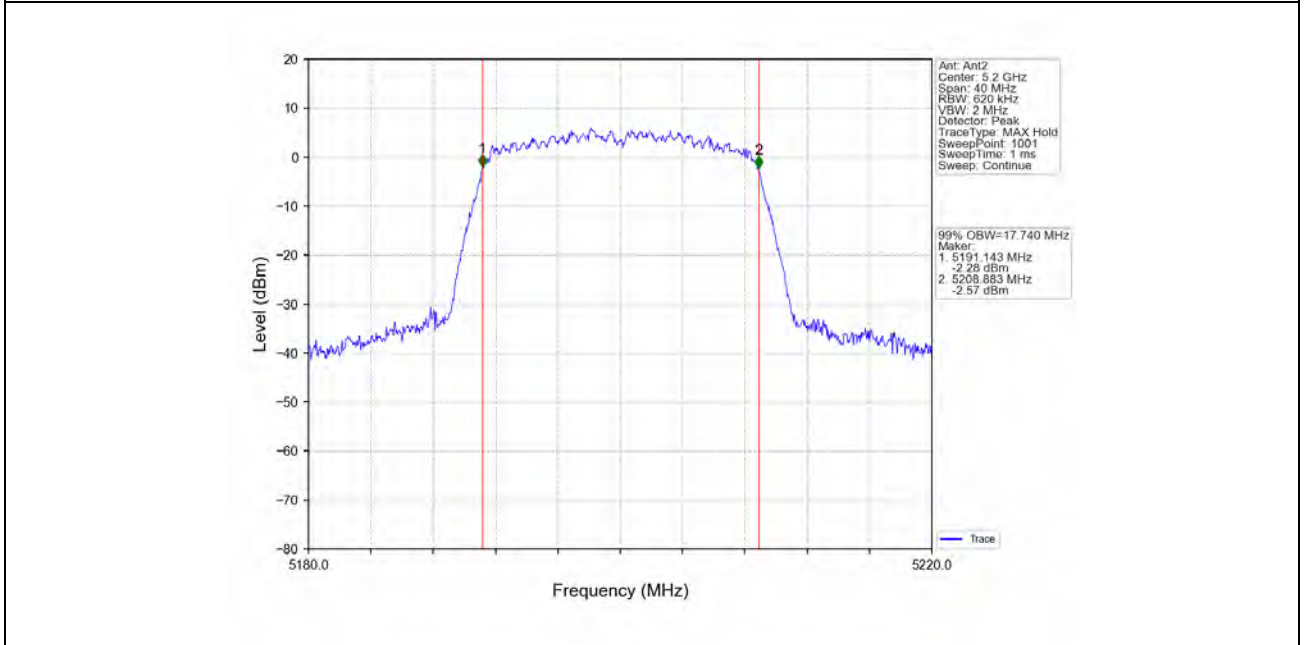
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802.11ac(VHT20)_MCH_5200MHz_Ant4_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV

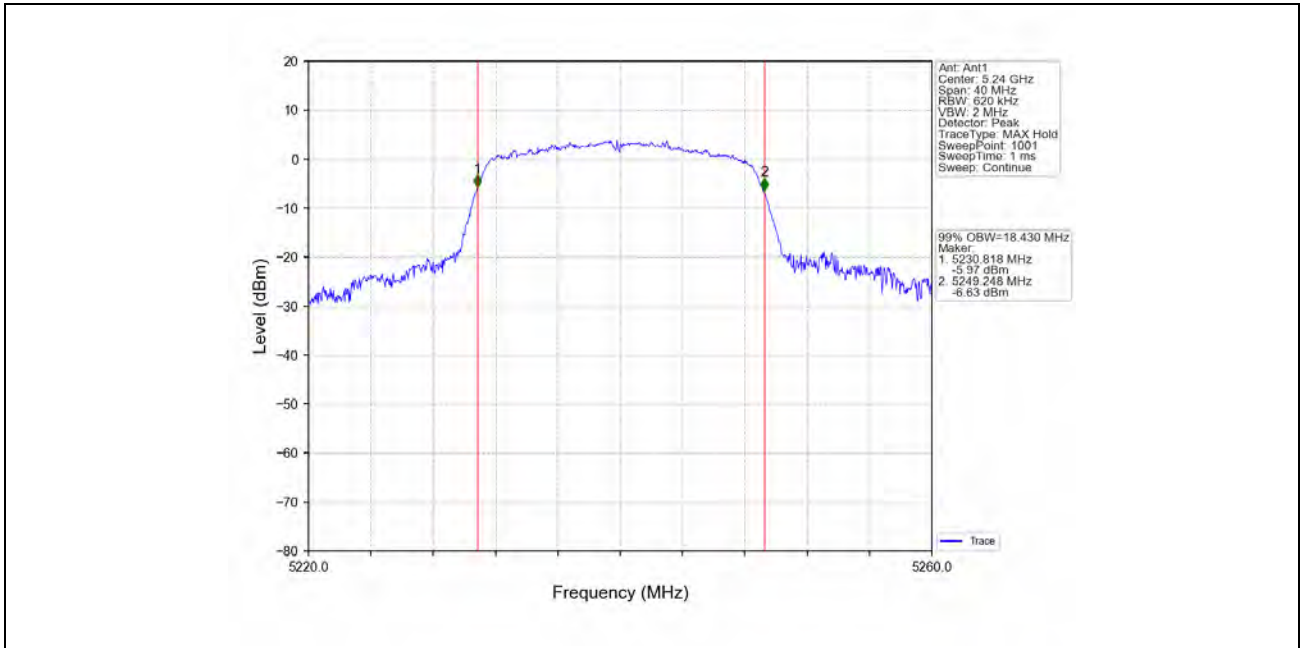


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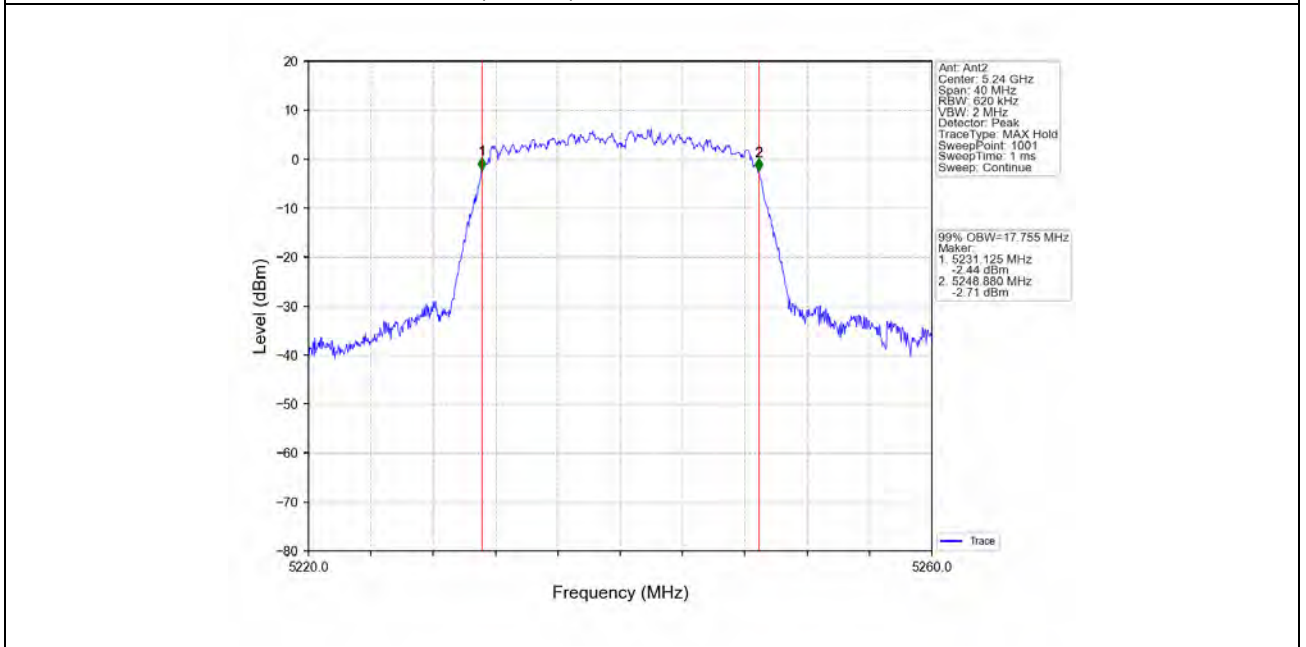
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802.11ac(VHT20)_HCH_5240MHz_Ant4_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV

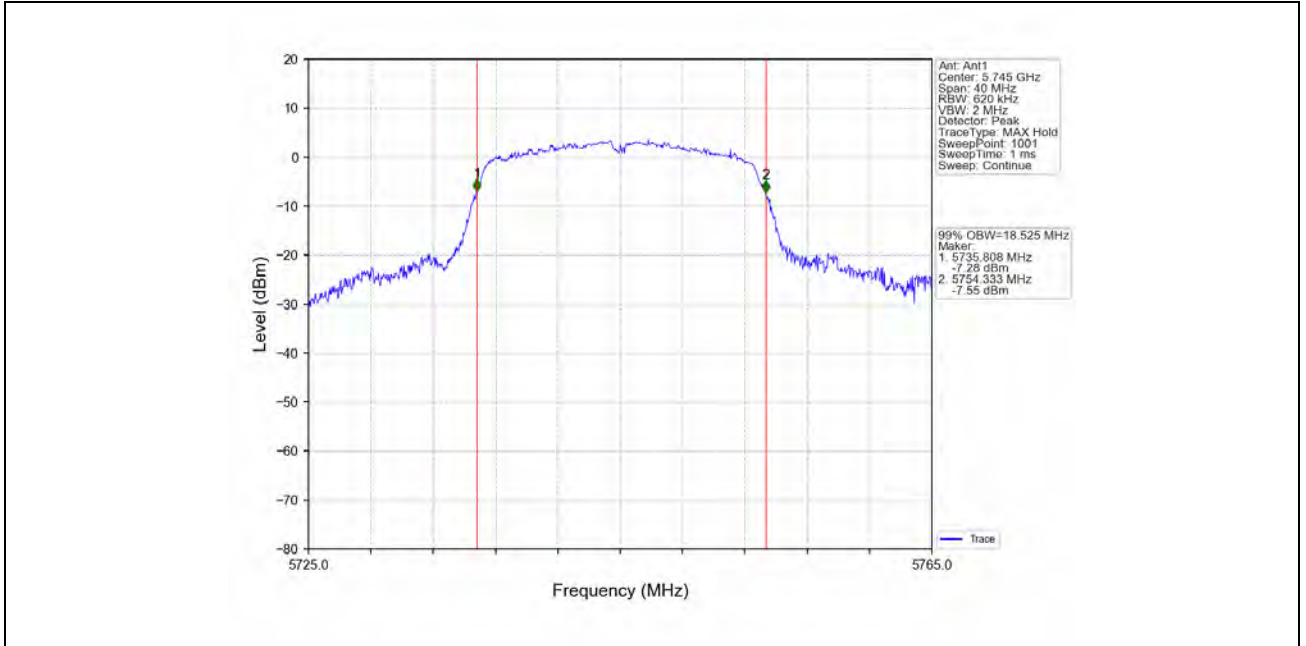


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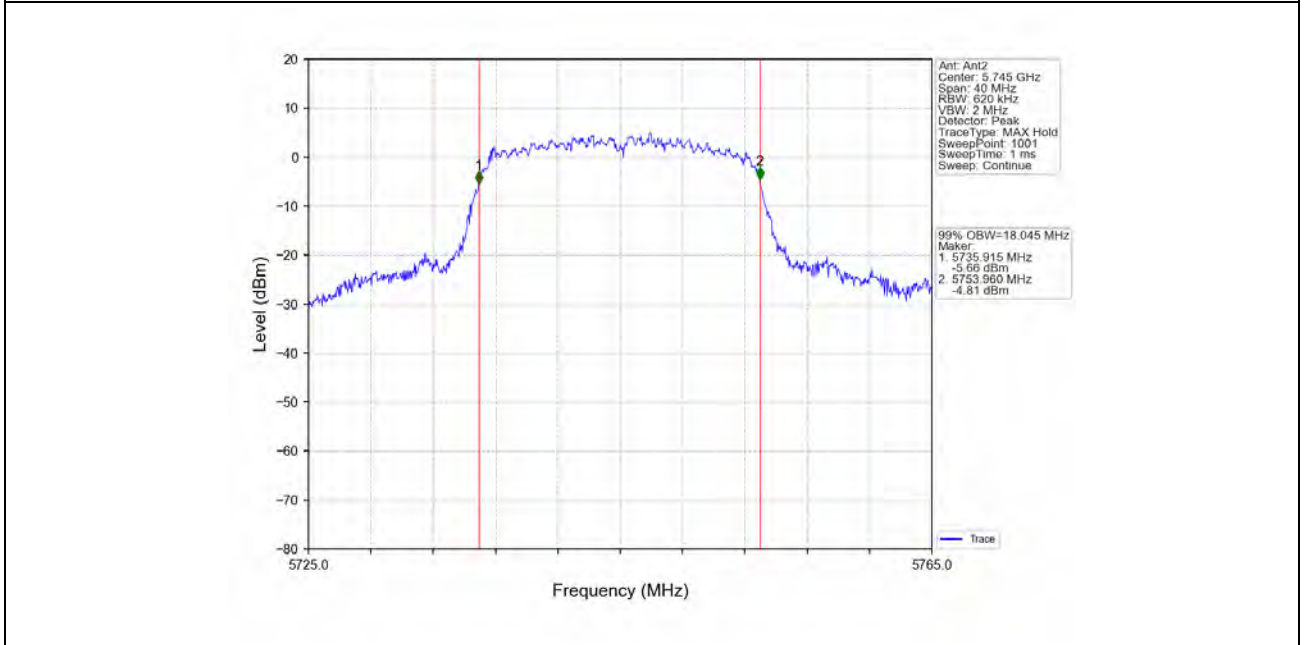
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802.11ac(VHT20)_LCH_5745MHz_Ant4_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV

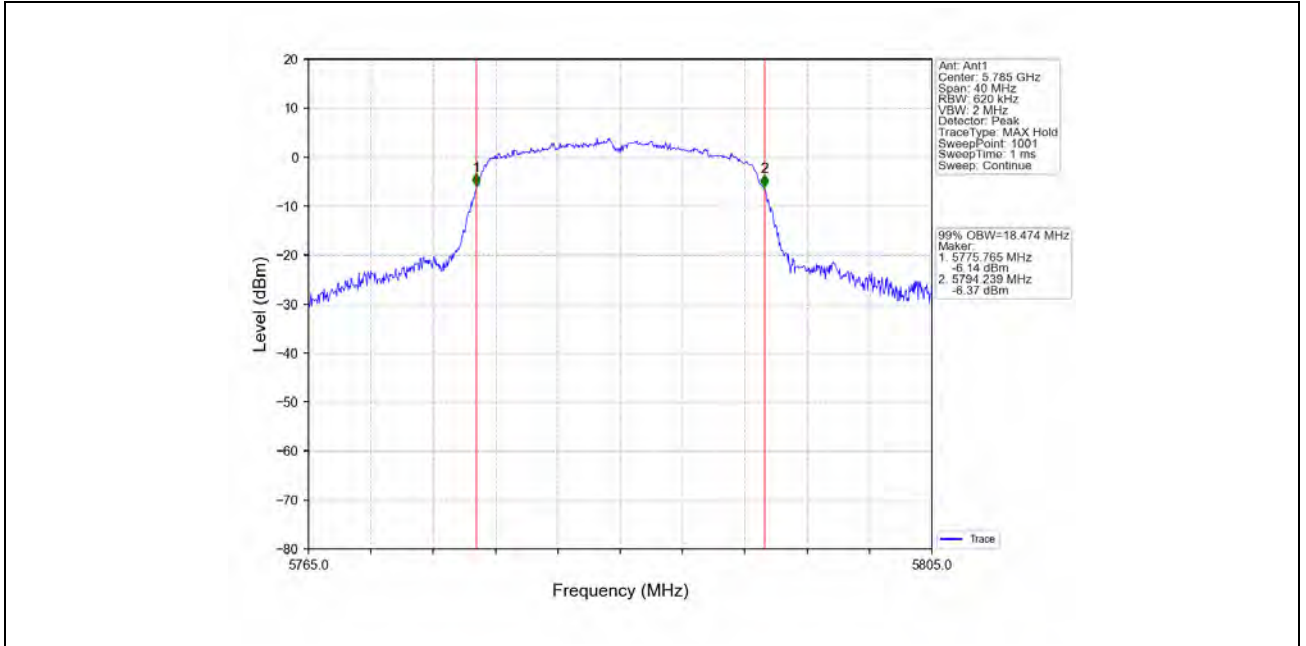


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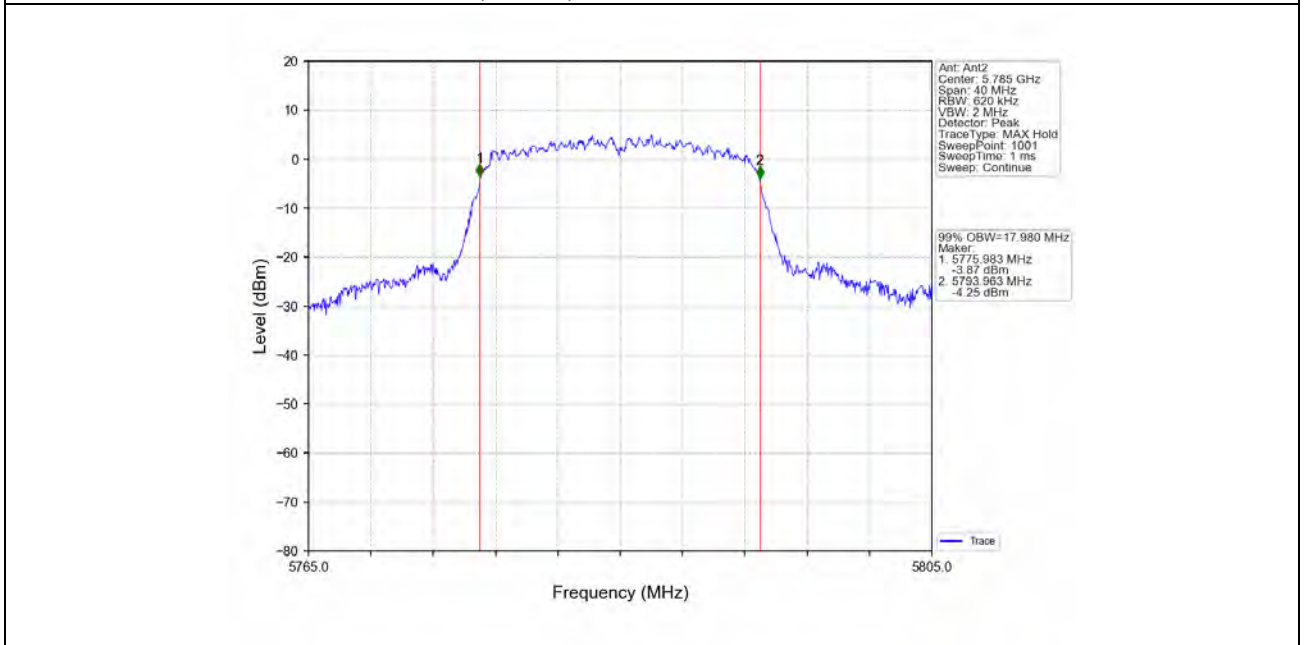
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802.11ac(VHT20)_MCH_5785MHz_Ant4_NTNV



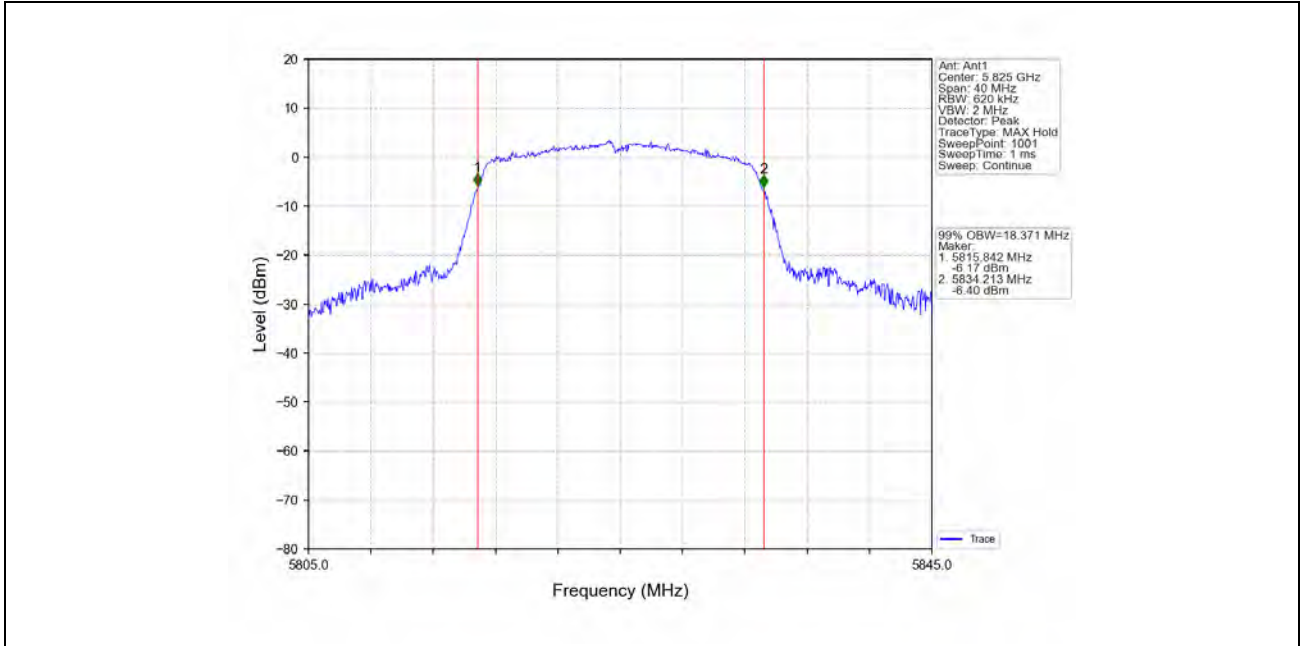
802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



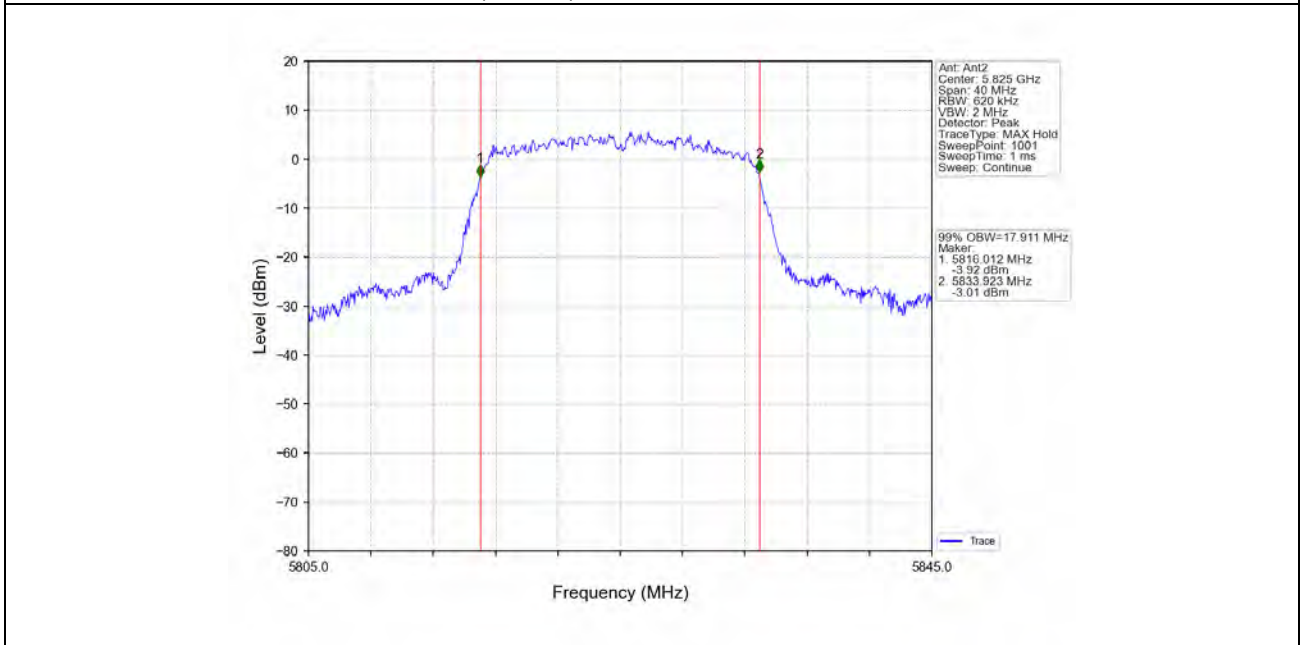
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802.11ac(VHT20)_HCH_5825MHz_Ant4_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV

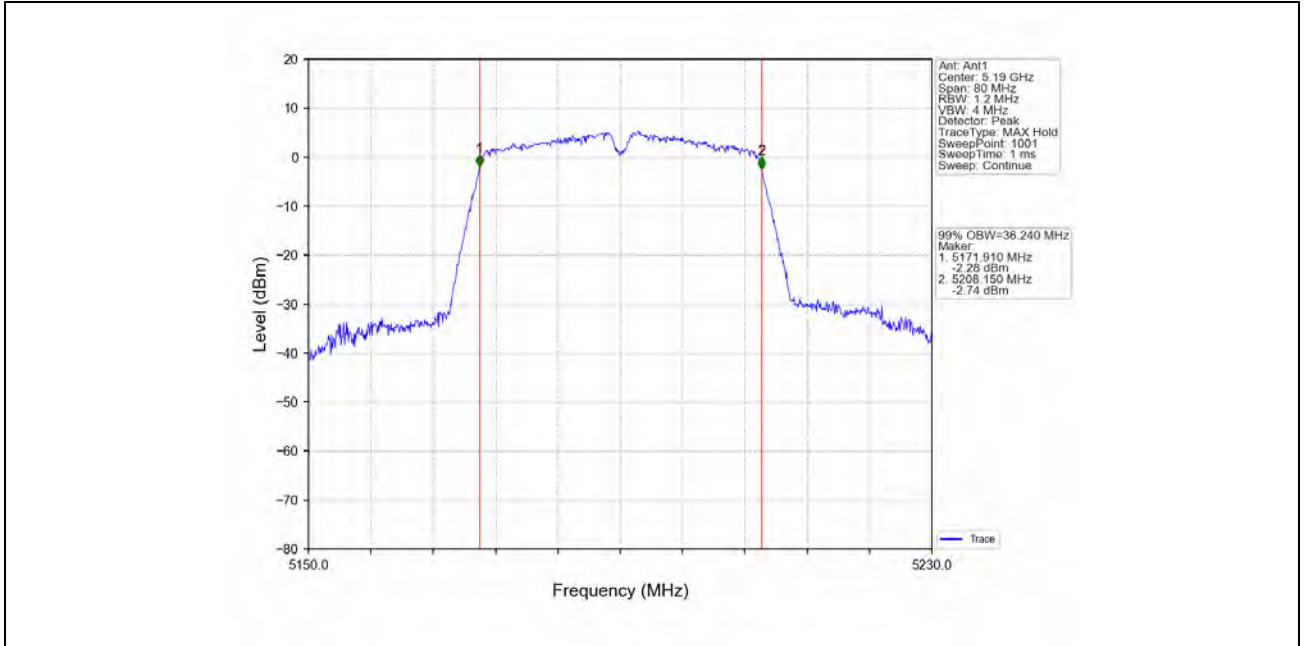


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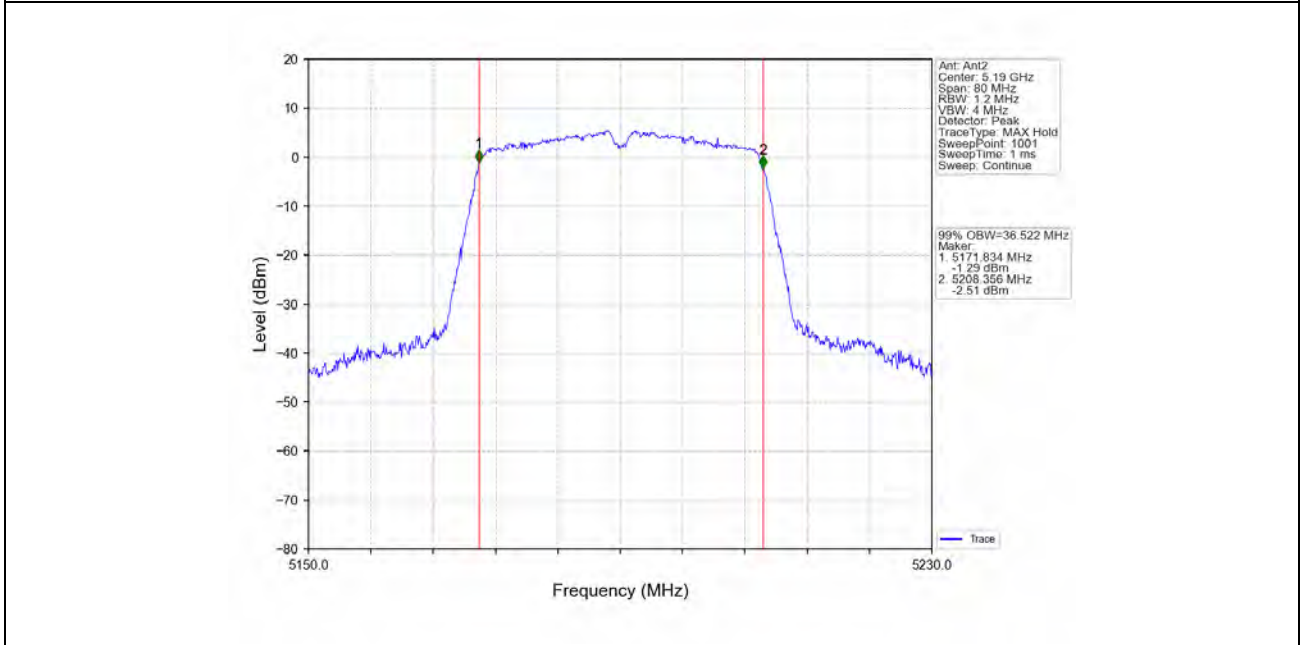
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802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV

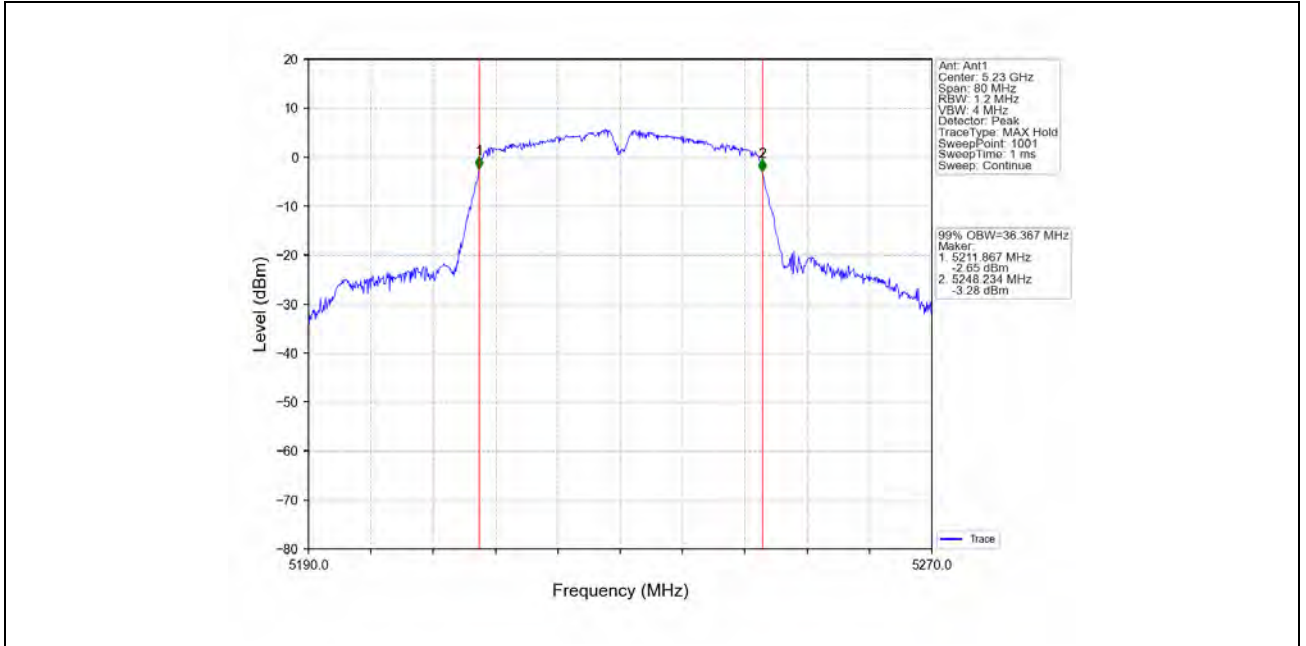


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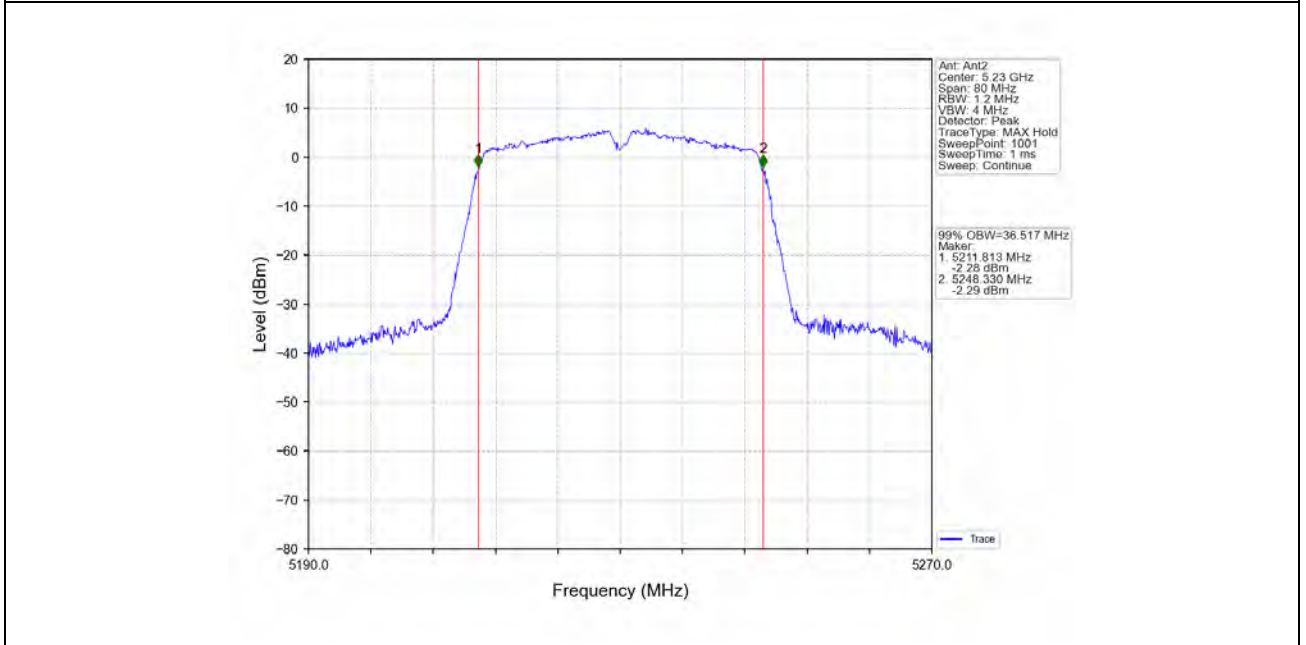
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802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant3_NTNV

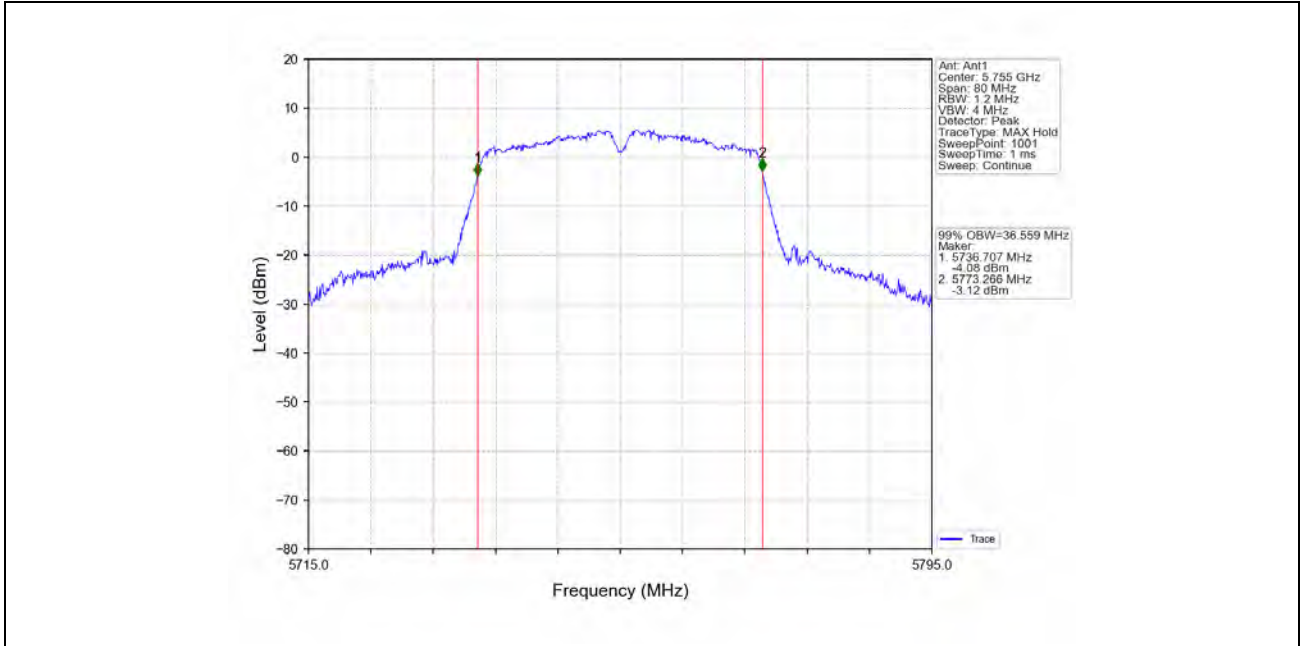


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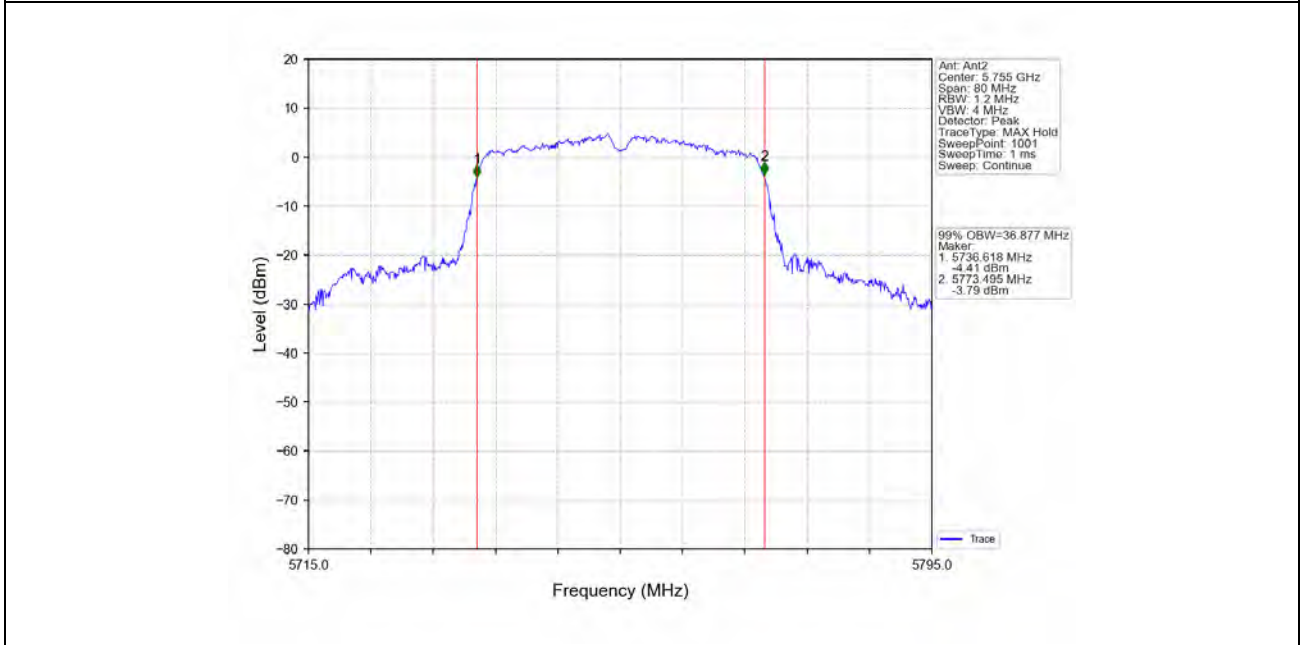
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802.11ac(VHT40)_LCH_5755MHz_Ant4_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV

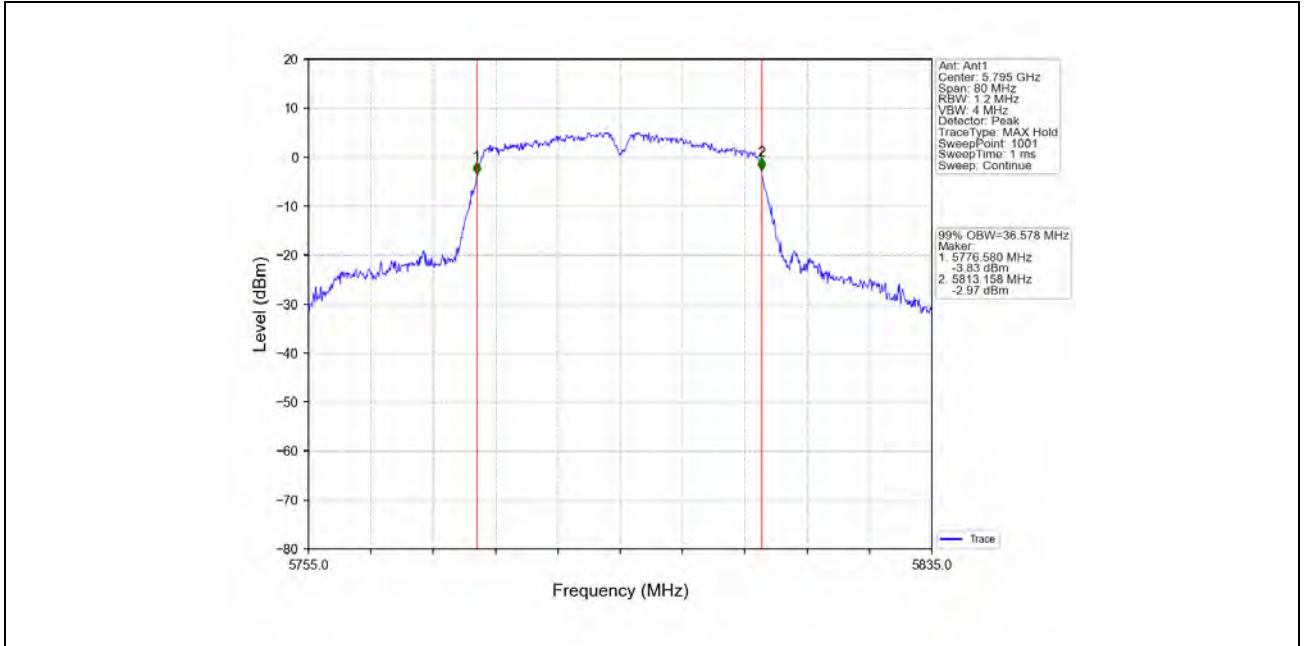


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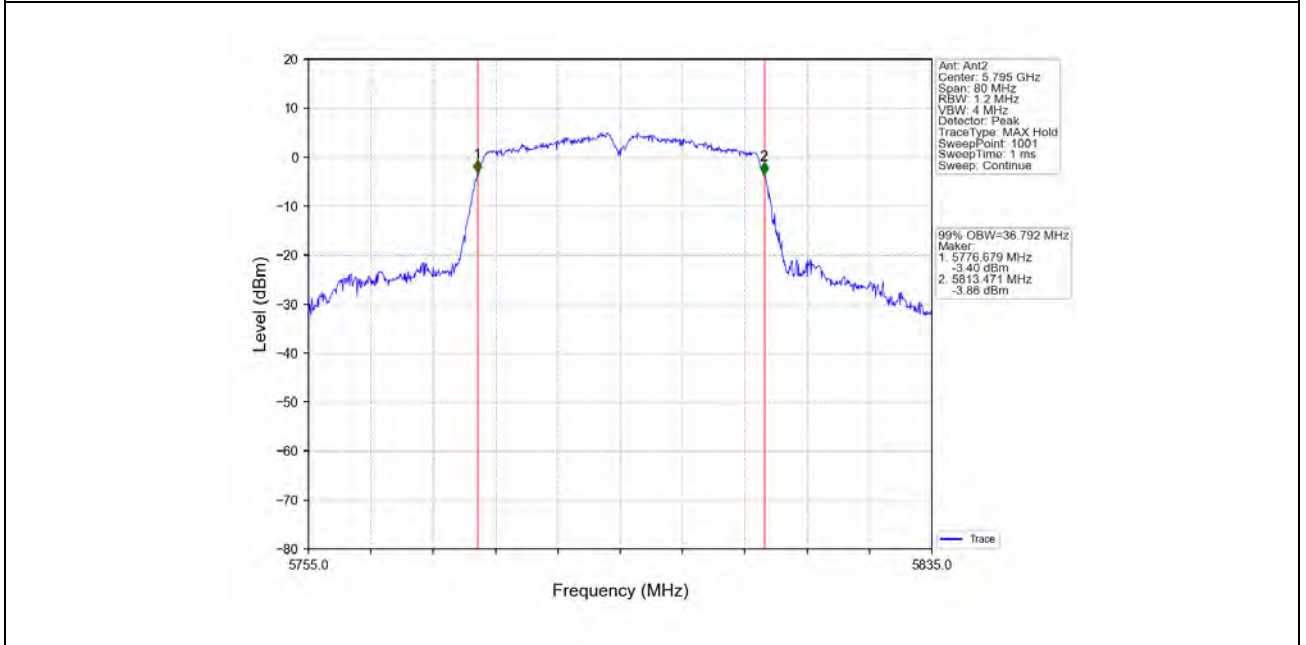
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802.11ac(VHT40)_HCH_5795MHz_Ant4_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV

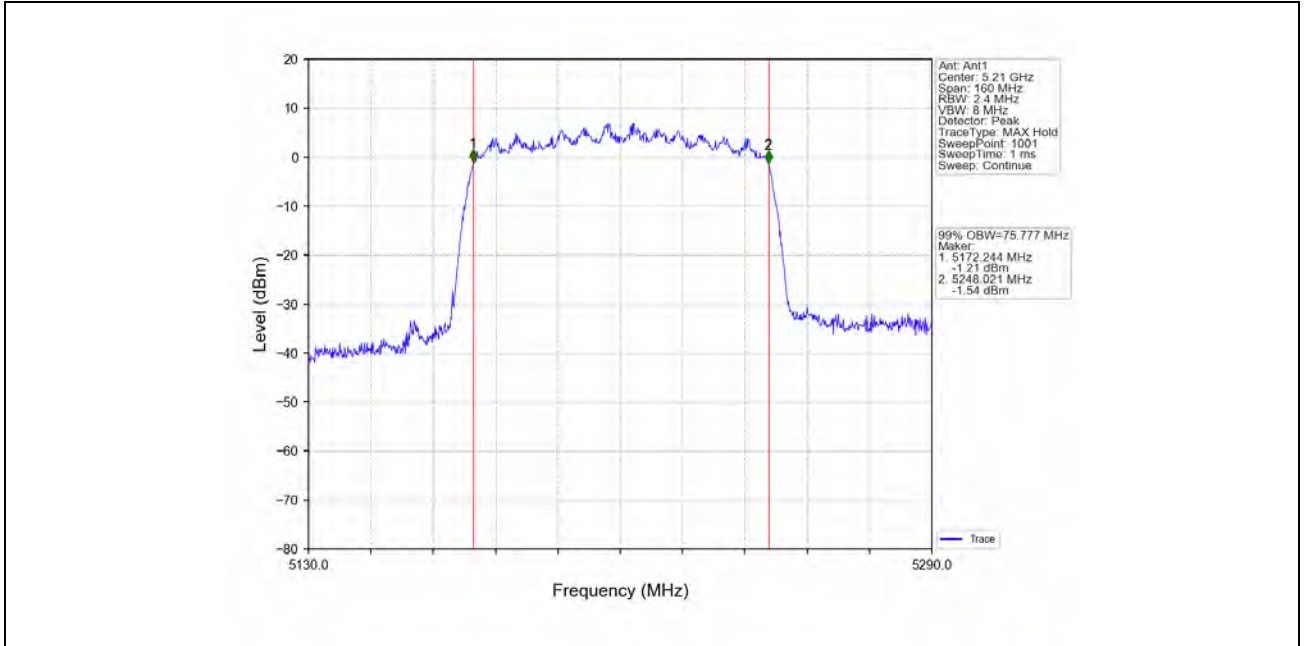


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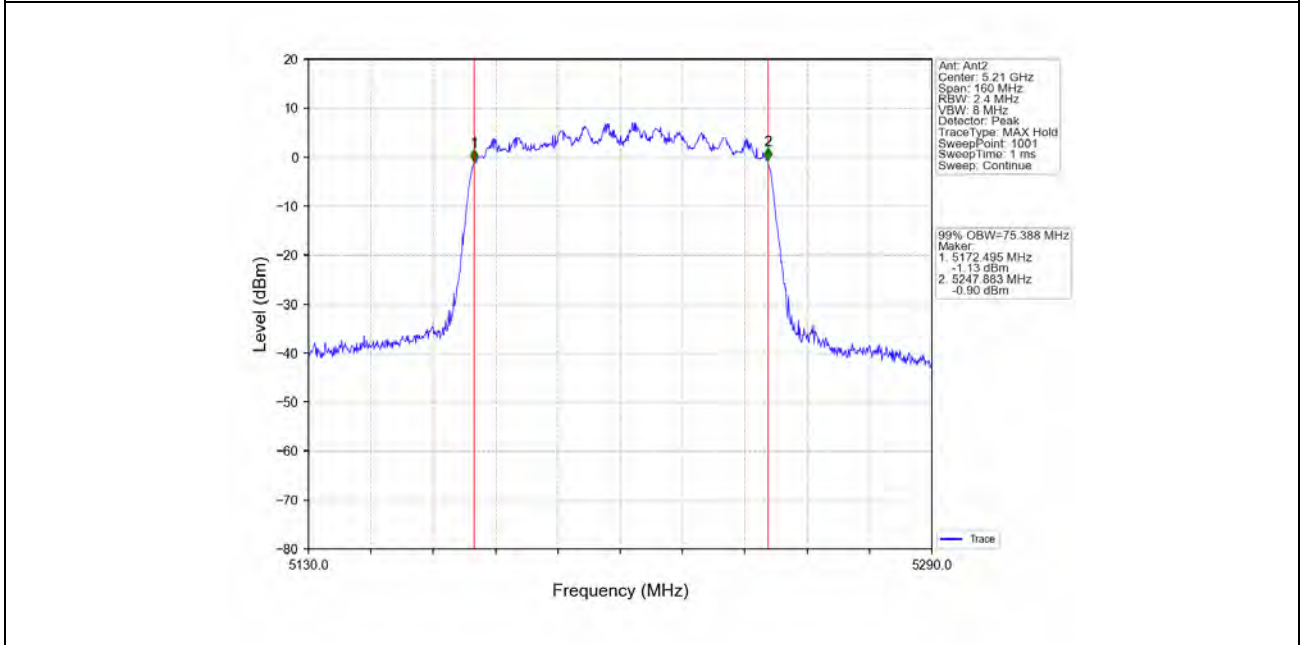
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802.11ac(VHT80)_MCH_5210MHz_Ant4_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV

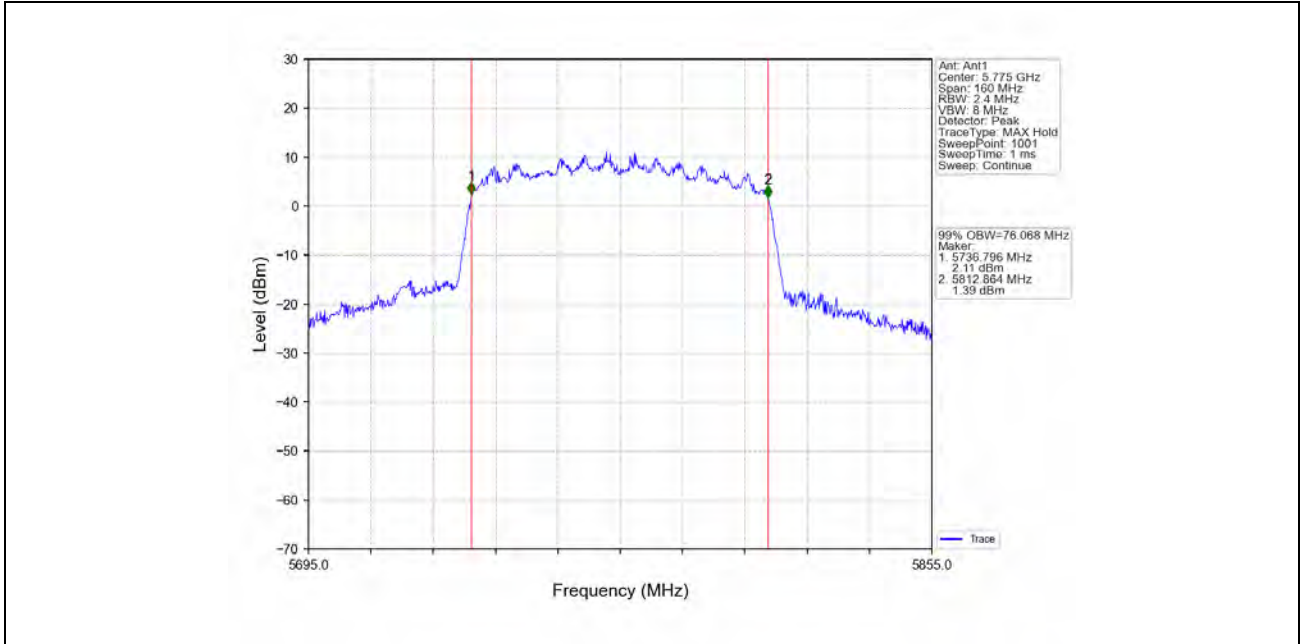


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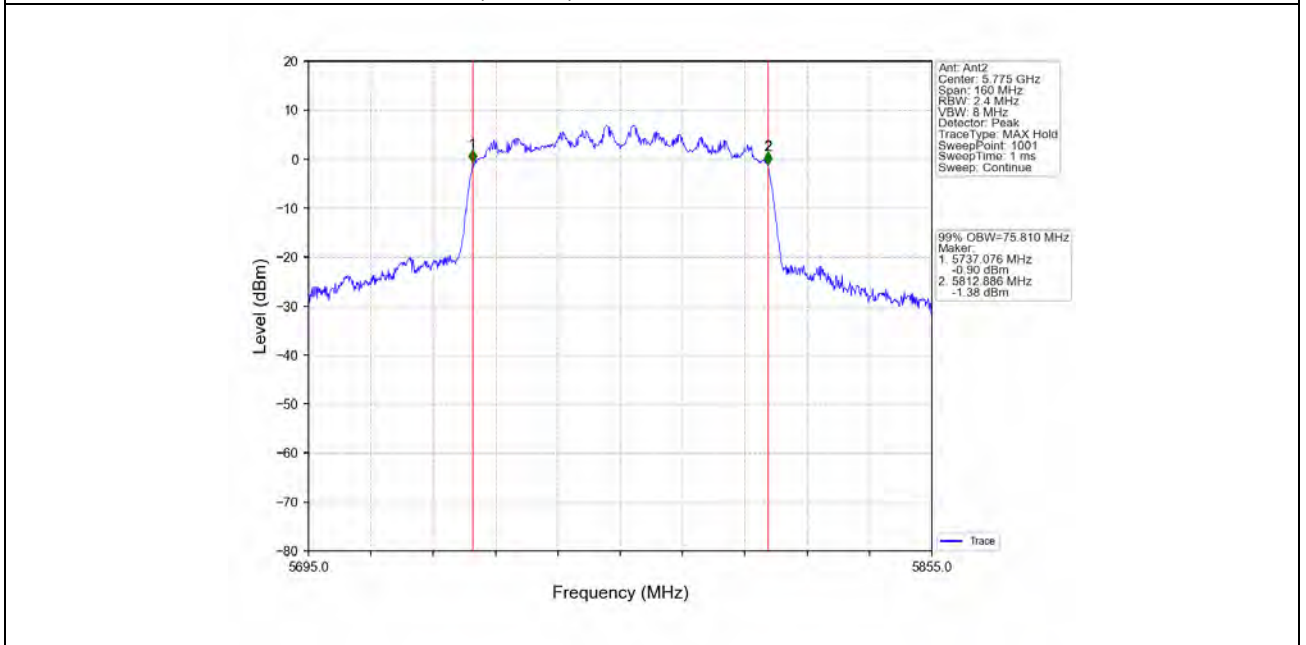
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802.11ac(VHT80)_MCH_5775MHz_Ant4_NTNV



2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)	Verdict
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	Type	(MHz)		Result	Limit	
802.11a	SISO	5745	3	15.145	>=0.5	Pass
			4	15.147	>=0.5	Pass
		5785	3	15.093	>=0.5	Pass
			4	15.153	>=0.5	Pass
		5825	3	15.158	>=0.5	Pass
			4	15.112	>=0.5	Pass
802.11n (HT20)	MIMO	5745	3	15.067	>=0.5	Pass
			4	15.712	>=0.5	Pass
		5785	3	15.160	>=0.5	Pass
			4	15.142	>=0.5	Pass
		5825	3	15.157	>=0.5	Pass
			4	15.090	>=0.5	Pass
802.11n (HT40)	MIMO	5755	3	35.131	>=0.5	Pass
			4	35.131	>=0.5	Pass
		5795	3	35.135	>=0.5	Pass
			4	35.124	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	3	15.164	>=0.5	Pass
			4	15.710	>=0.5	Pass
		5785	3	15.182	>=0.5	Pass
			4	15.973	>=0.5	Pass
		5825	3	15.164	>=0.5	Pass
			4	15.702	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	3	35.147	>=0.5	Pass
			4	35.130	>=0.5	Pass
		5795	3	35.154	>=0.5	Pass
			4	35.136	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	3	75.117	>=0.5	Pass
			4	75.155	>=0.5	Pass

2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant3_NTNV

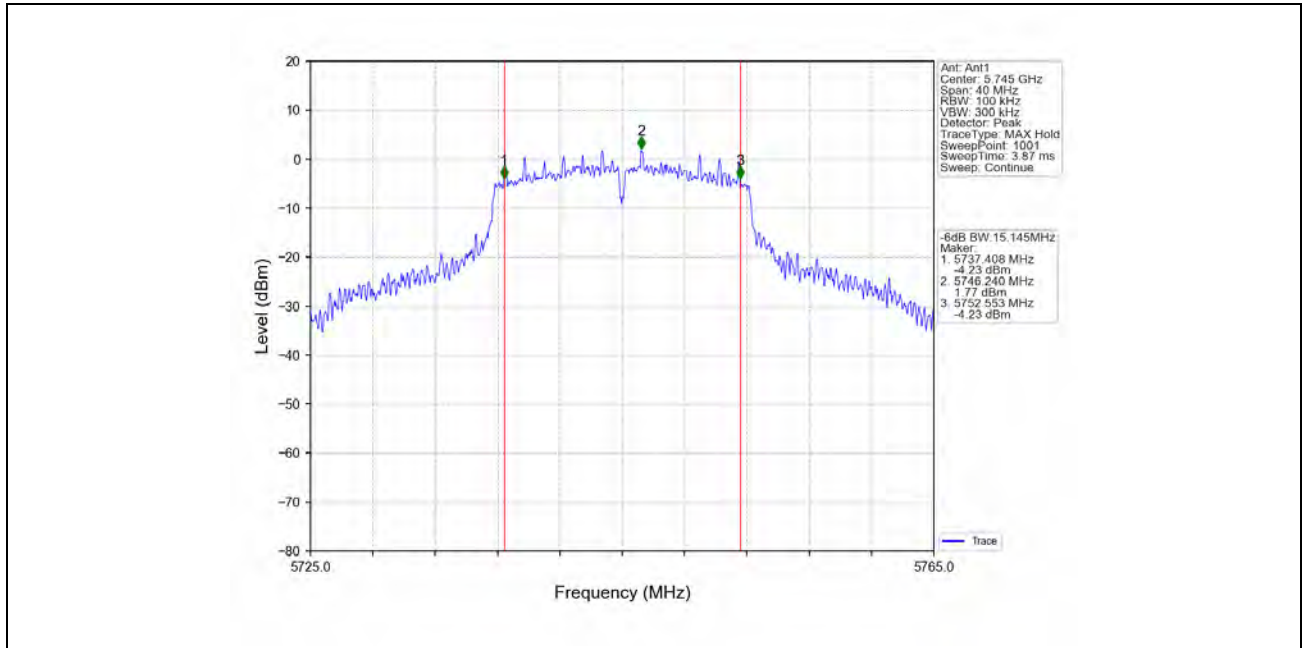


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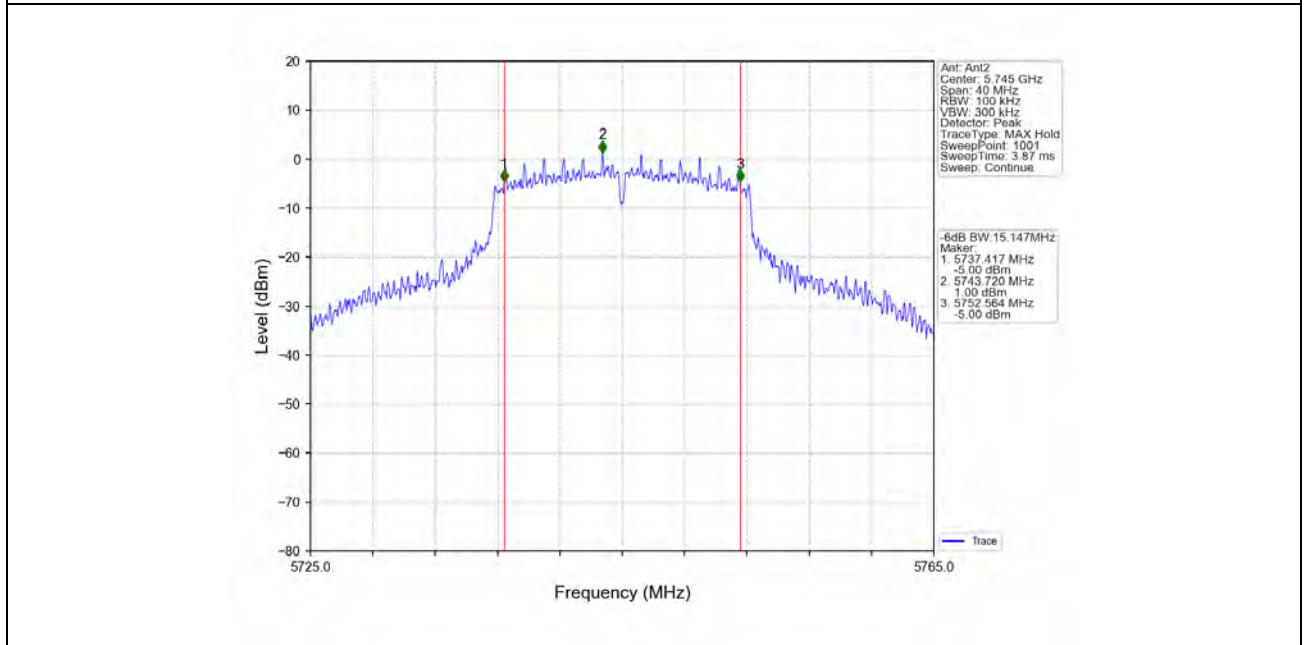
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802.11a_LCH_5745MHz_Ant4_NTNV



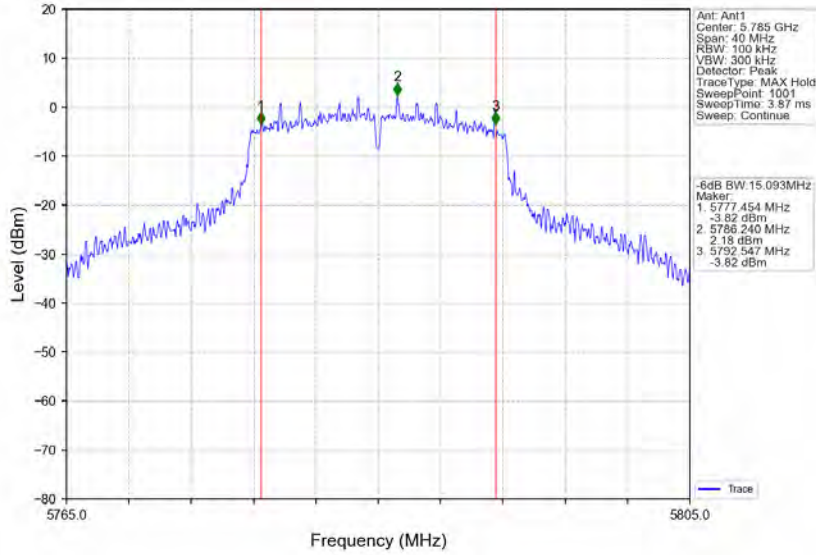
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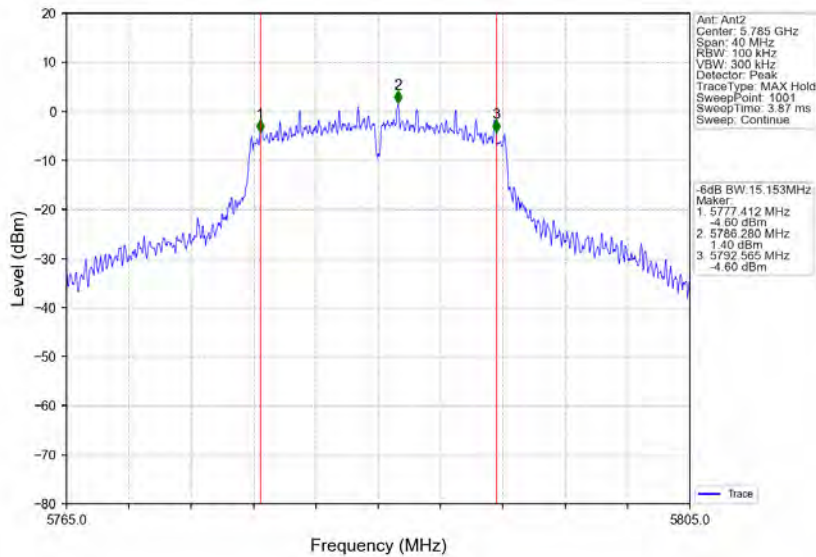
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802.11a_MCH_5785MHz_Ant4_NTNV



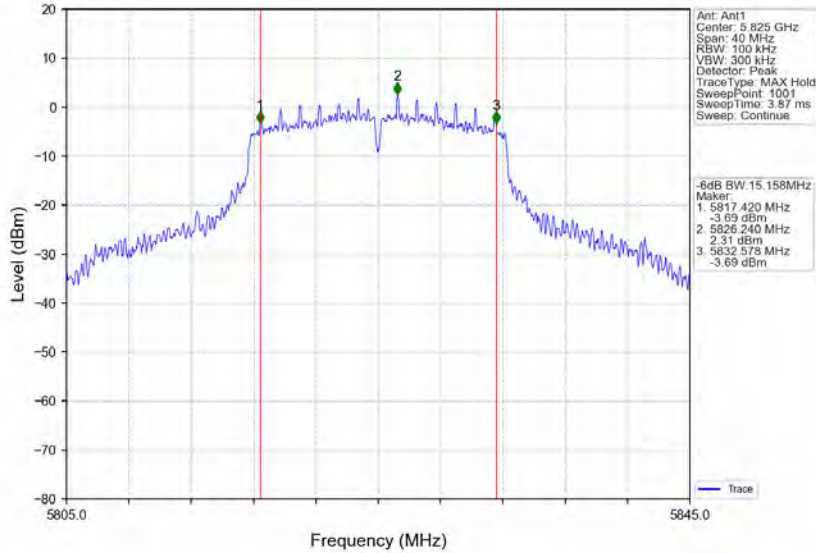
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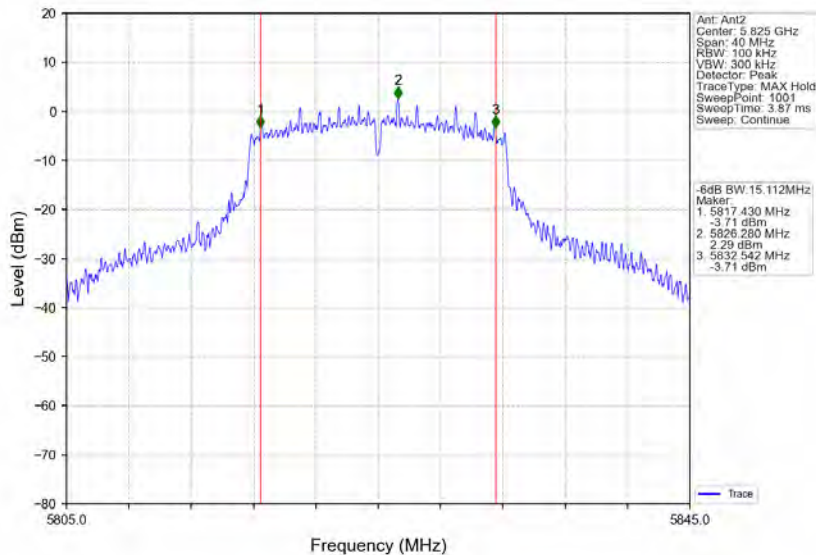
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802.11a_HCH_5825MHz_Ant3_NTNV



802.11a_HCH_5825MHz_Ant4_NTNV



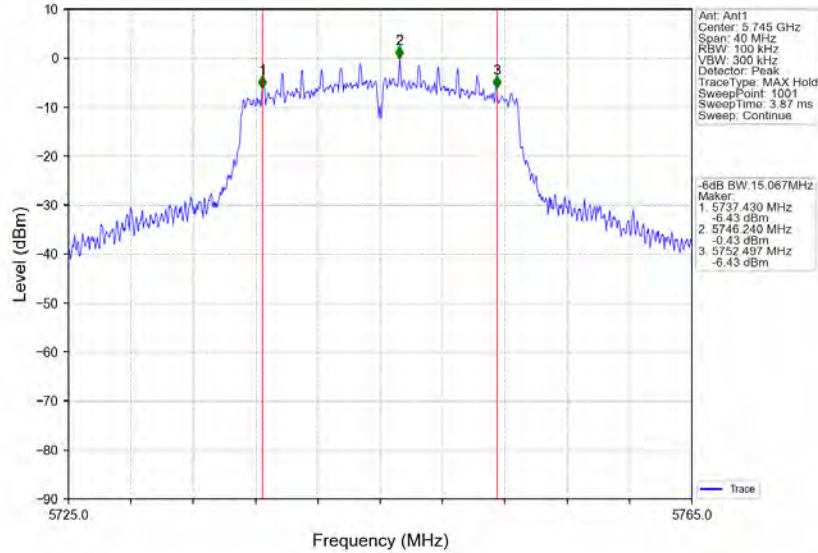
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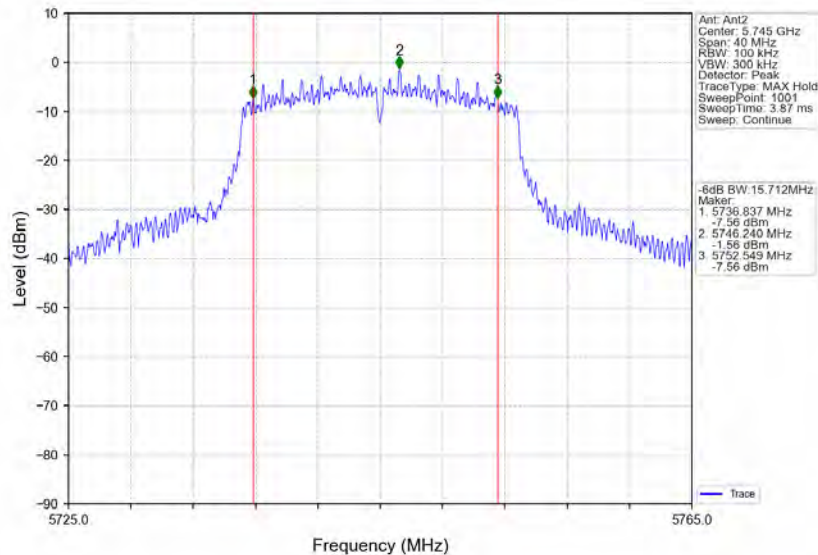
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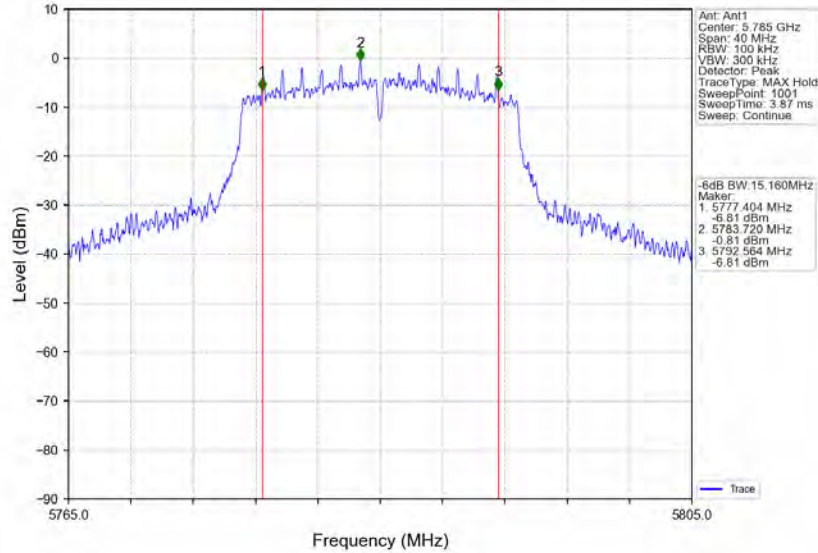
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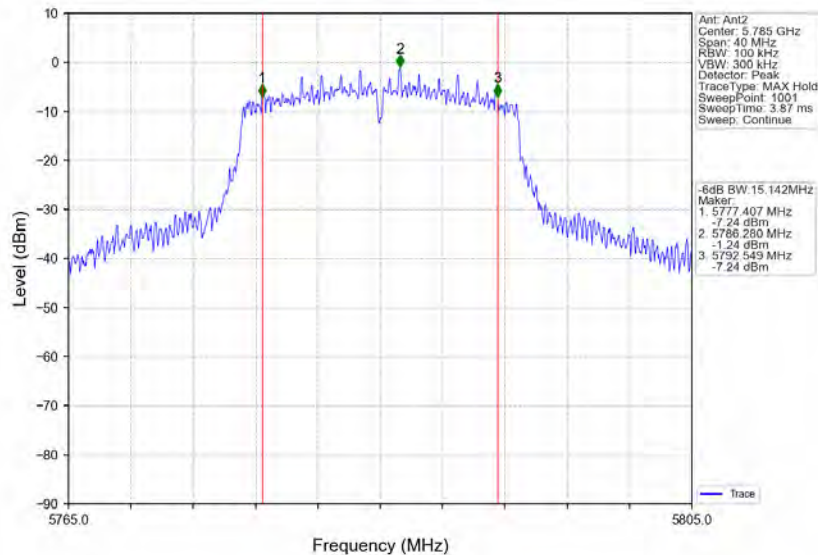
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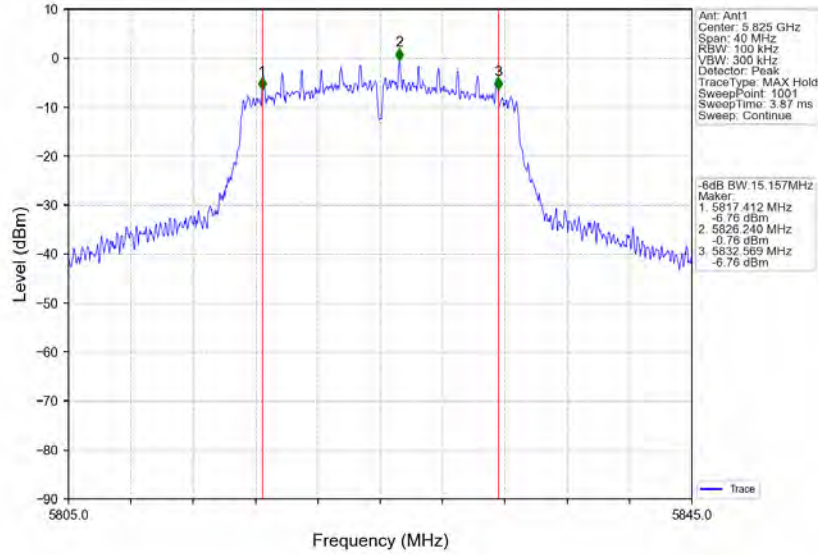
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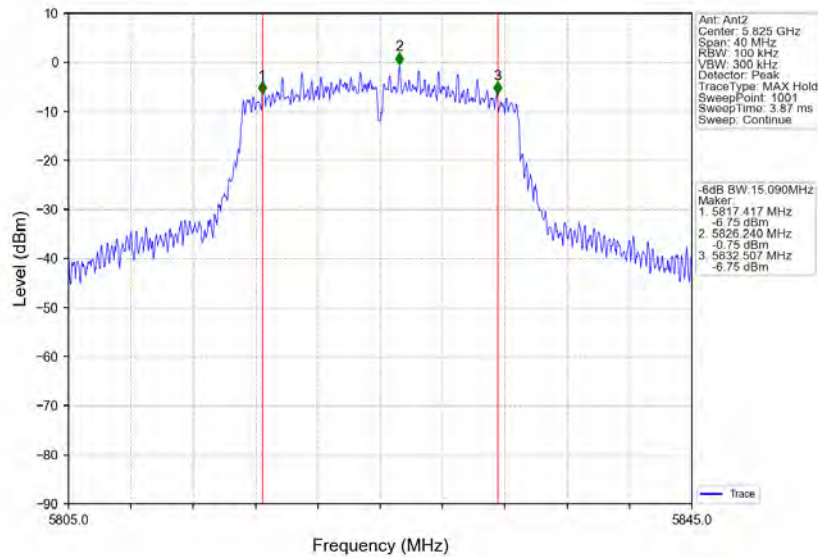
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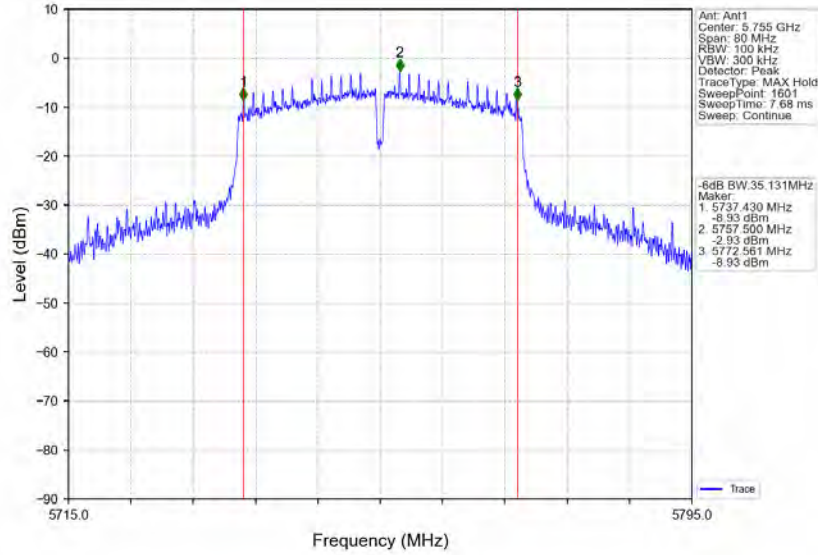
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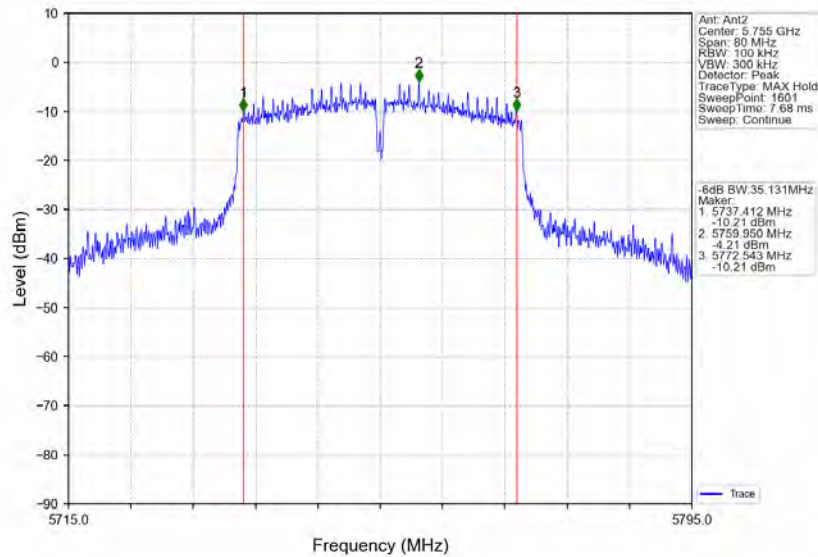
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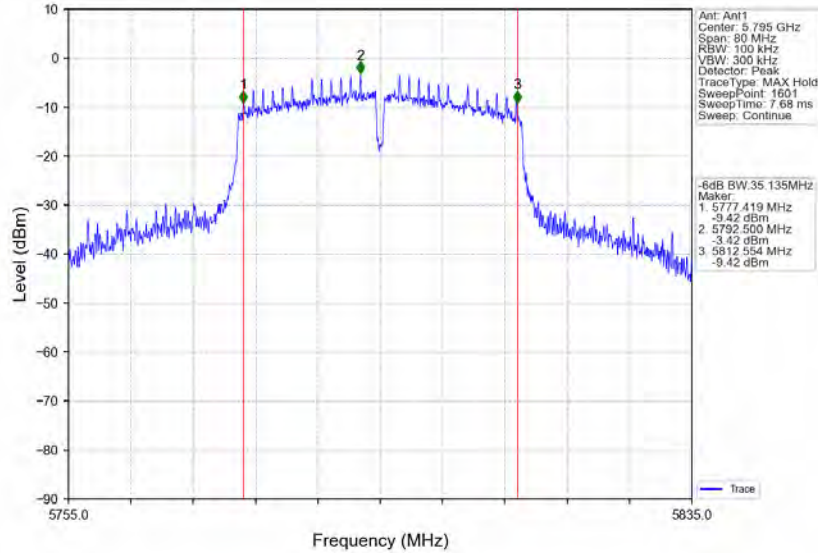
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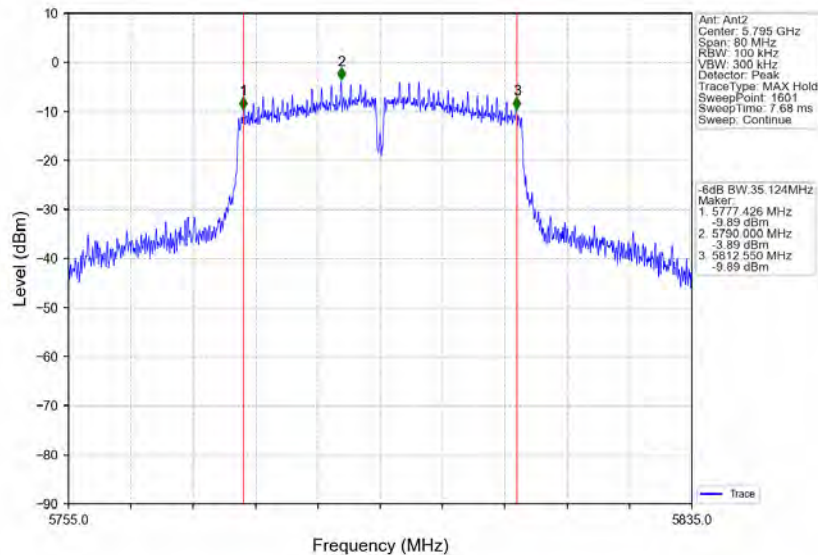
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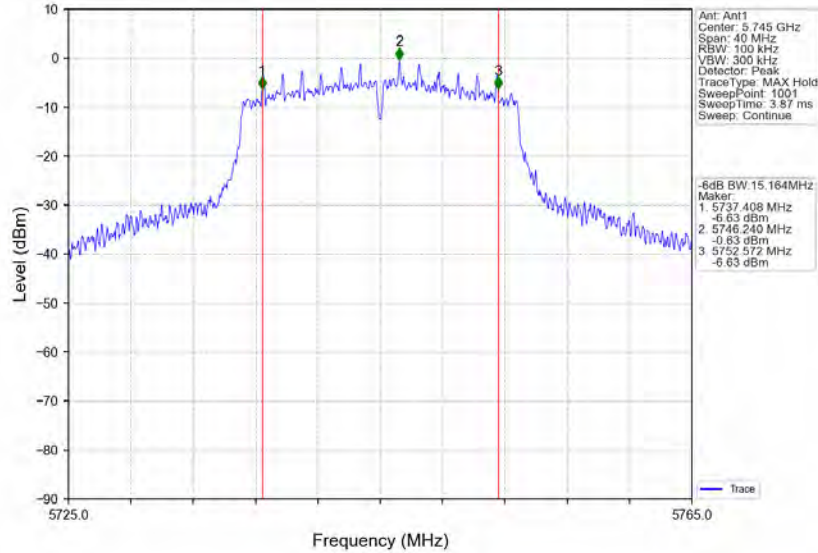
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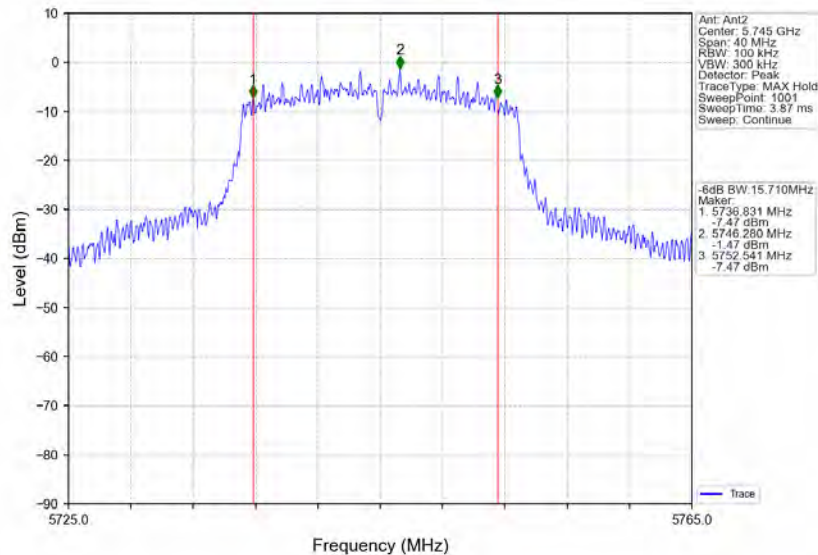
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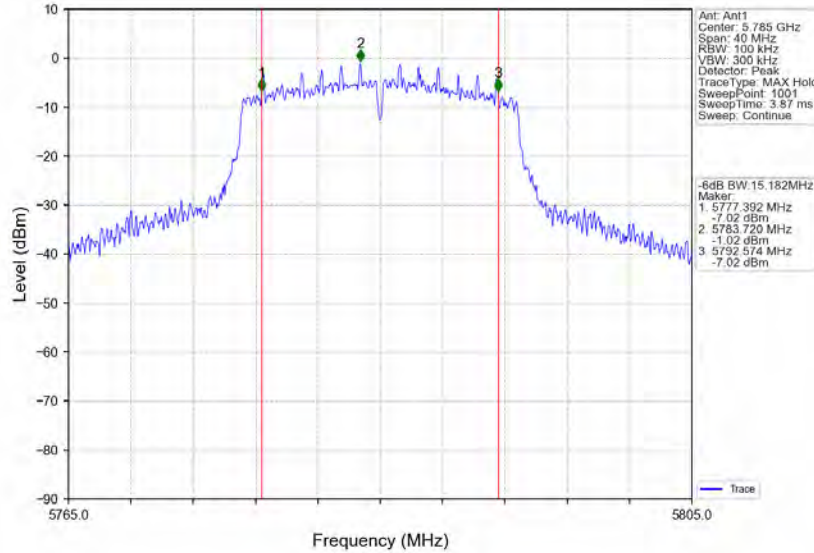
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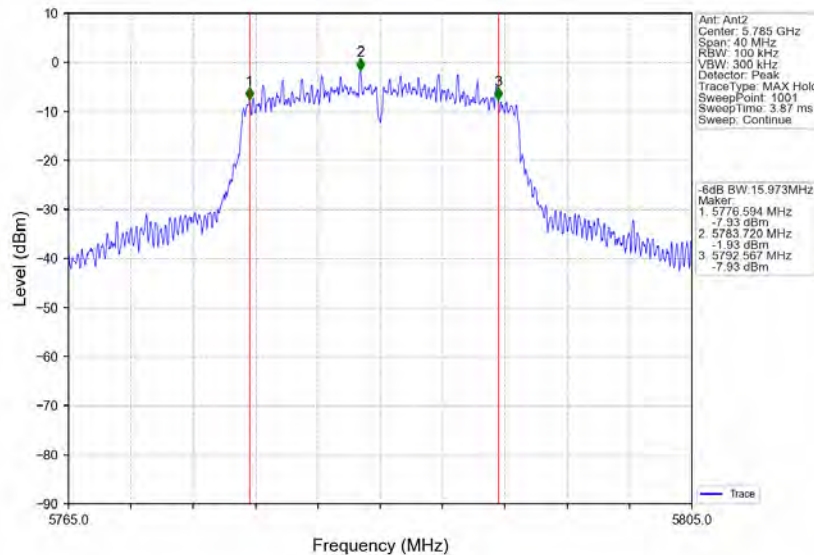
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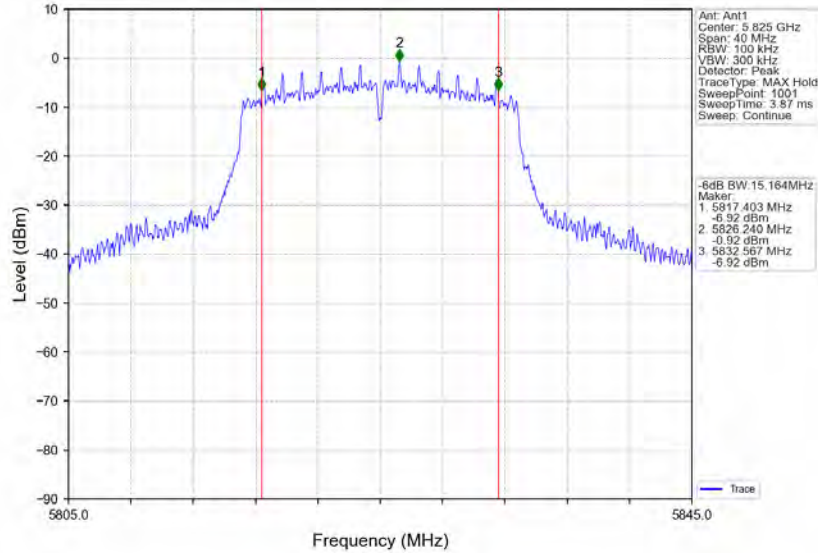
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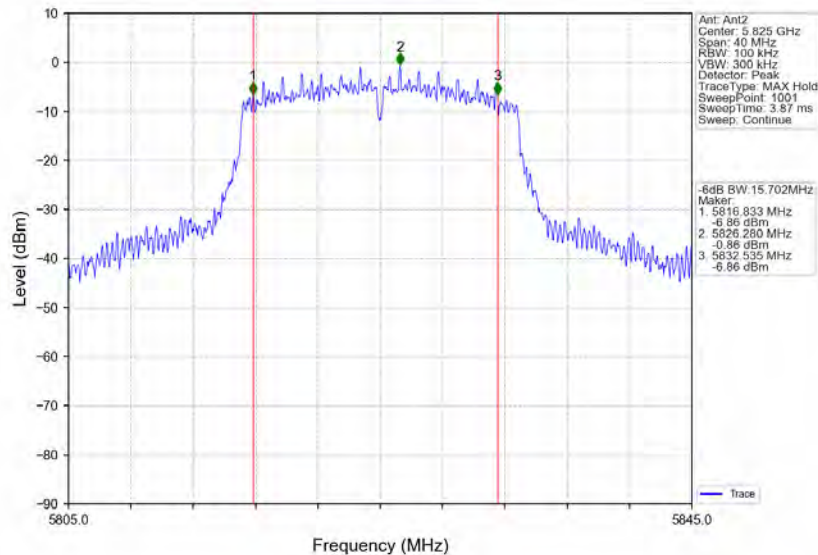
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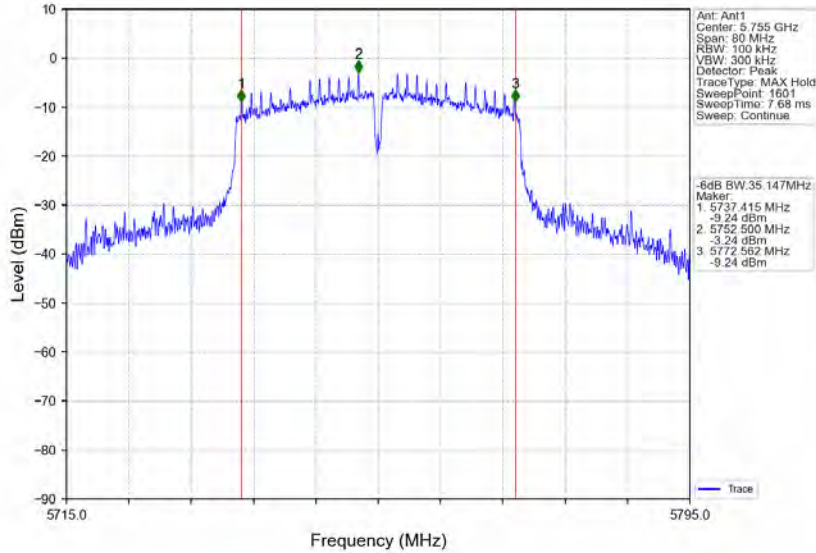
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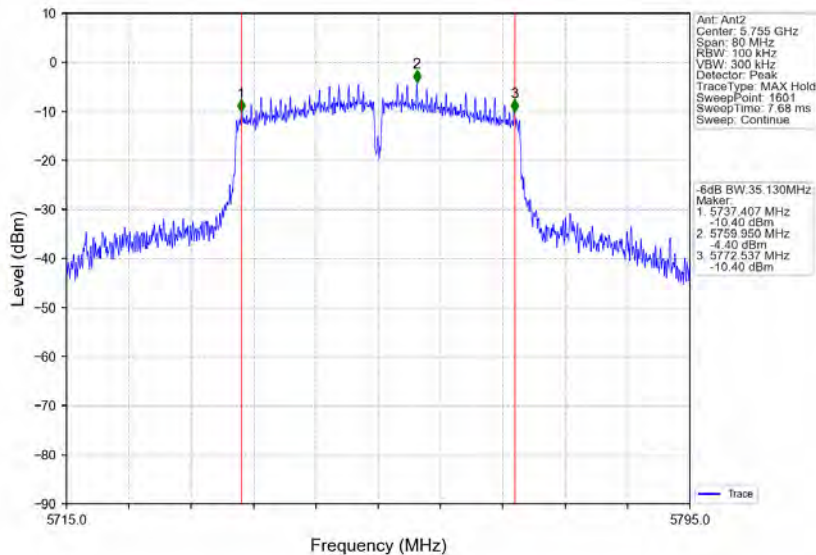
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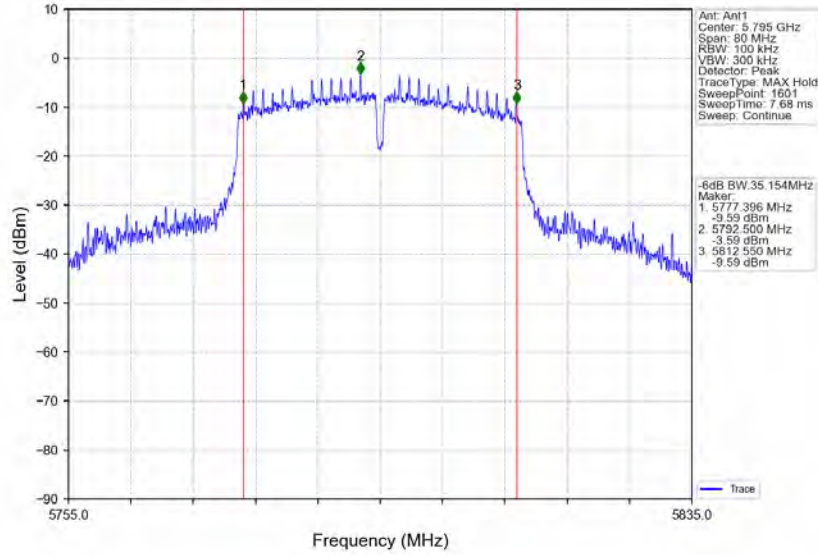
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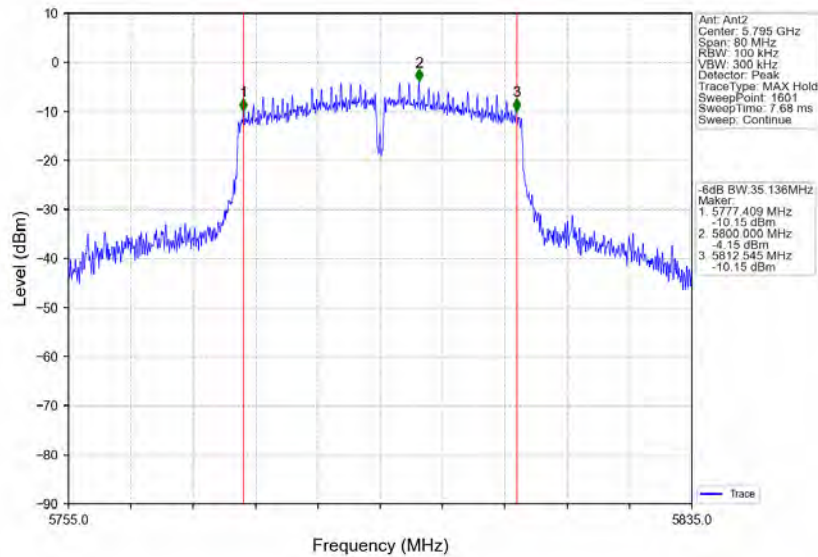
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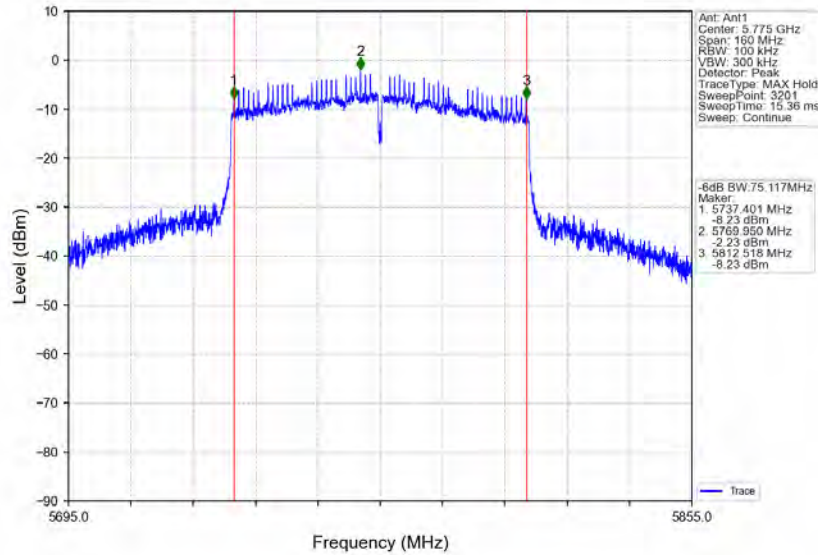
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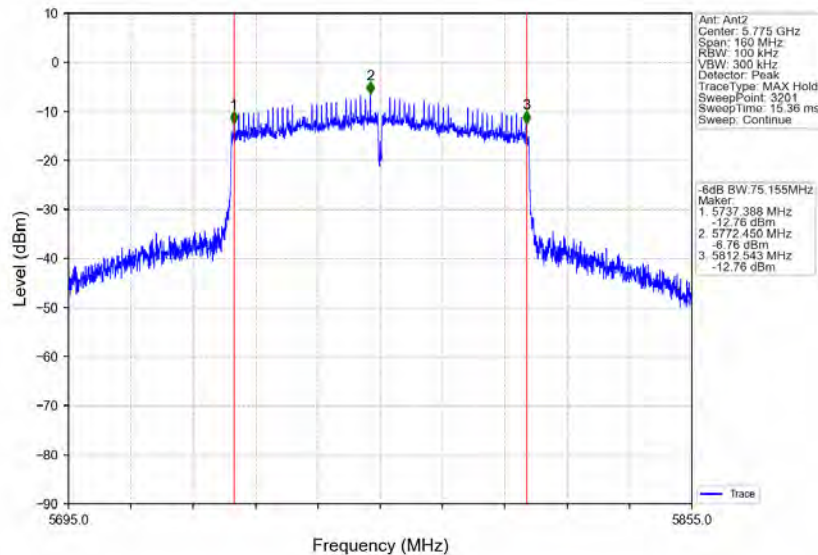
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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict		
				Result			
802.11a	SISO	5180	3	20.654	Pass		
			4	20.451	Pass		
		5200	3	35.647	Pass		
			4	20.718	Pass		
		5240	3	35.706	Pass		
			4	20.745	Pass		
802.11n (HT20)	MIMO	5180	3	20.997	Pass		
			4	20.651	Pass		
		5200	3	27.970	Pass		
			4	20.586	Pass		
		5240	3	30.546	Pass		
			4	20.540	Pass		
		802.11n (HT40)	MIMO	5190	3	41.442	Pass
					4	41.348	Pass
5230	3			44.546	Pass		
	4			41.298	Pass		
802.11ac (VHT20)	MIMO			5180	3	21.002	Pass
					4	20.460	Pass
		5200	3	27.503	Pass		
			4	20.525	Pass		
		5240	3	32.081	Pass		
			4	20.488	Pass		
802.11ac (VHT40)	MIMO	5190	3	41.389	Pass		
			4	41.410	Pass		
		5230	3	43.542	Pass		
			4	41.243	Pass		
		5210	3	82.870	Pass		
			4	81.410	Pass		



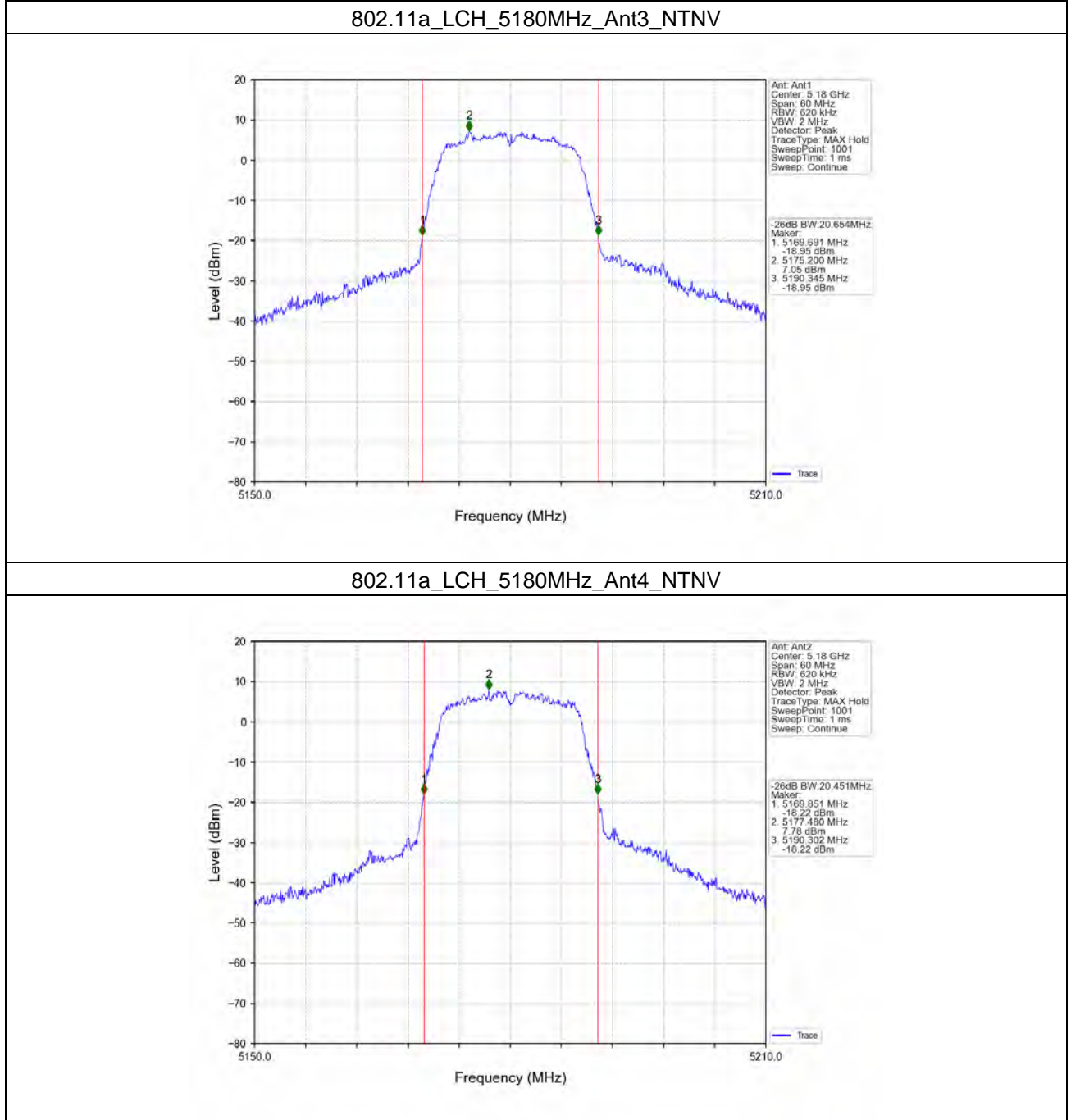
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2.3.2 Test Graph



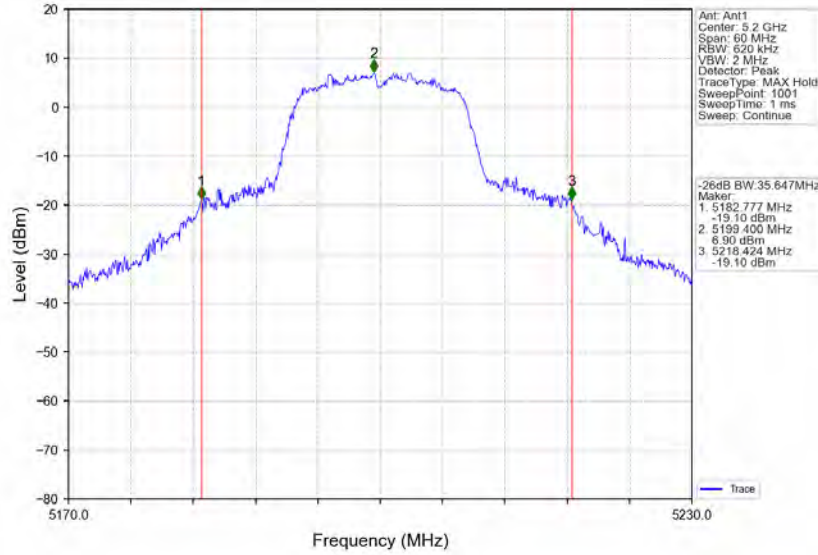
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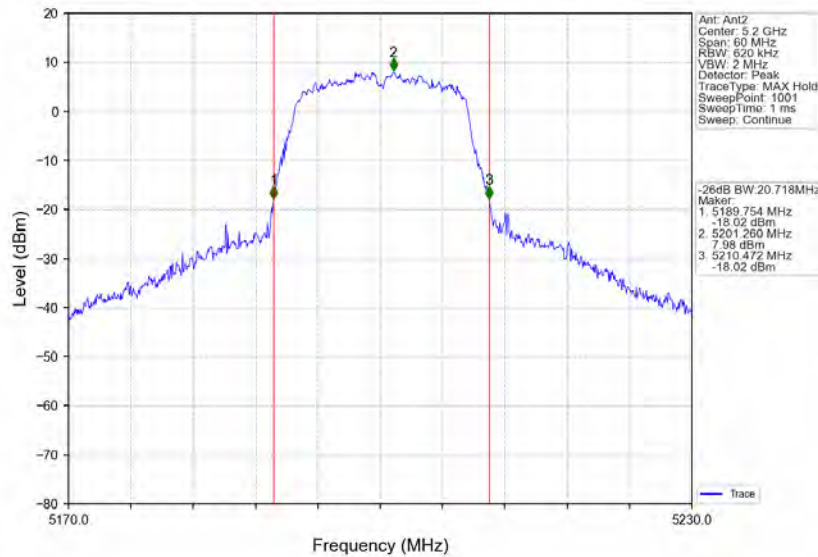
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802.11a_MCH_5200MHz_Ant3_NTNV



802.11a_MCH_5200MHz_Ant4_NTNV

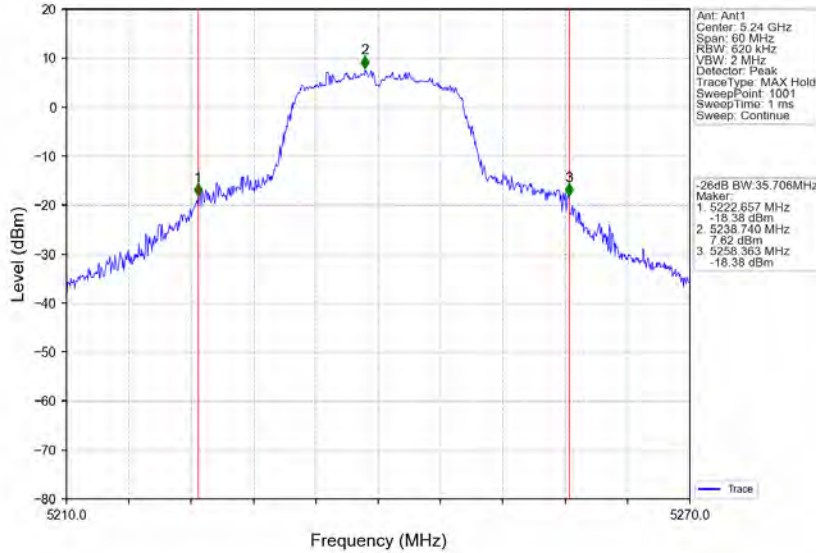


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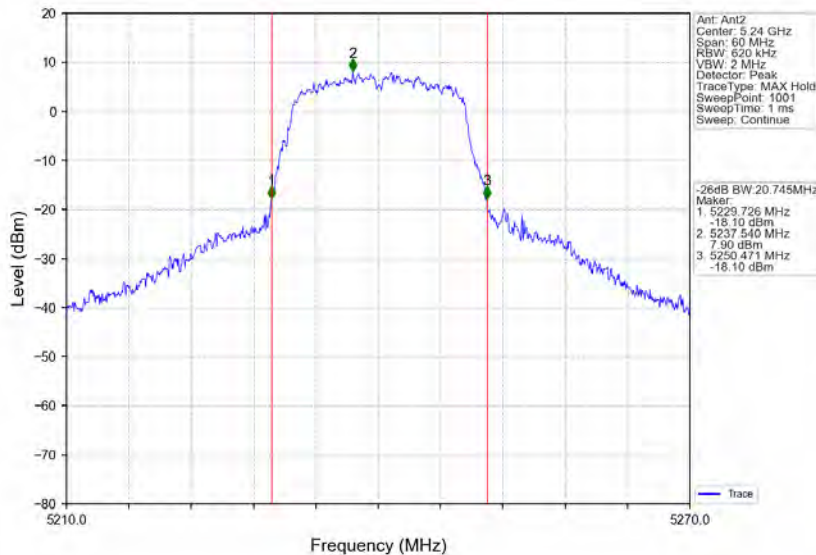
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802.11a_HCH_5240MHz_Ant4_NTNV



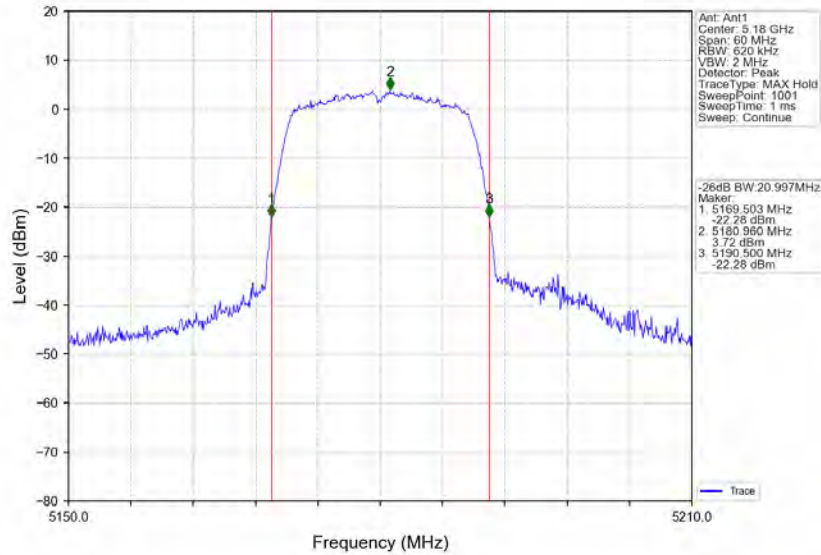
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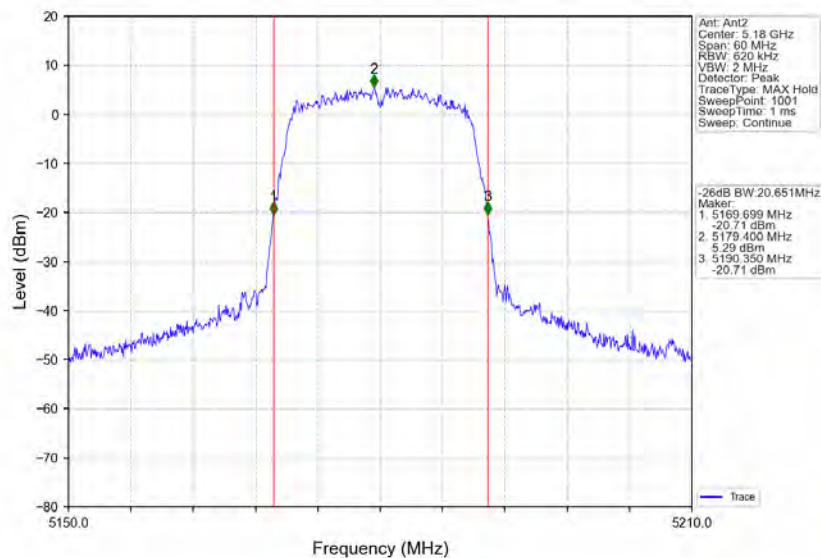
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802.11n(HT20)_LCH_5180MHz_Ant3_NTNV



802.11n(HT20)_LCH_5180MHz_Ant4_NTNV

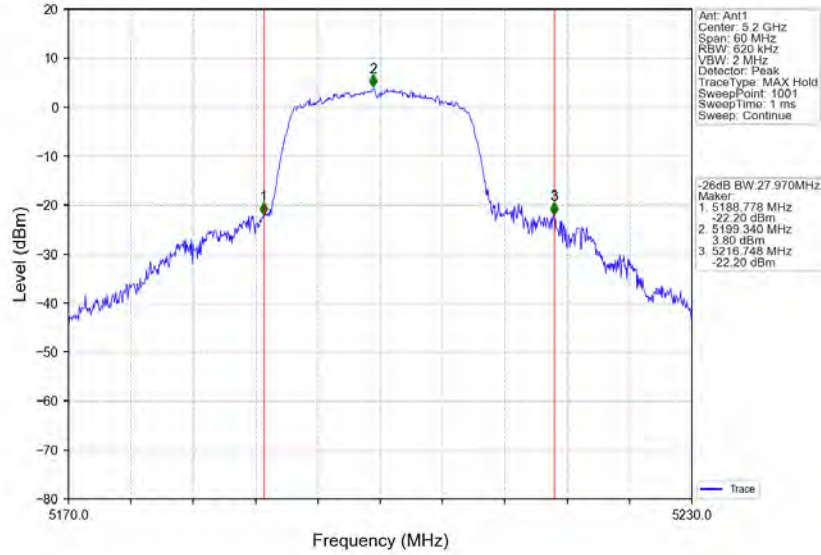


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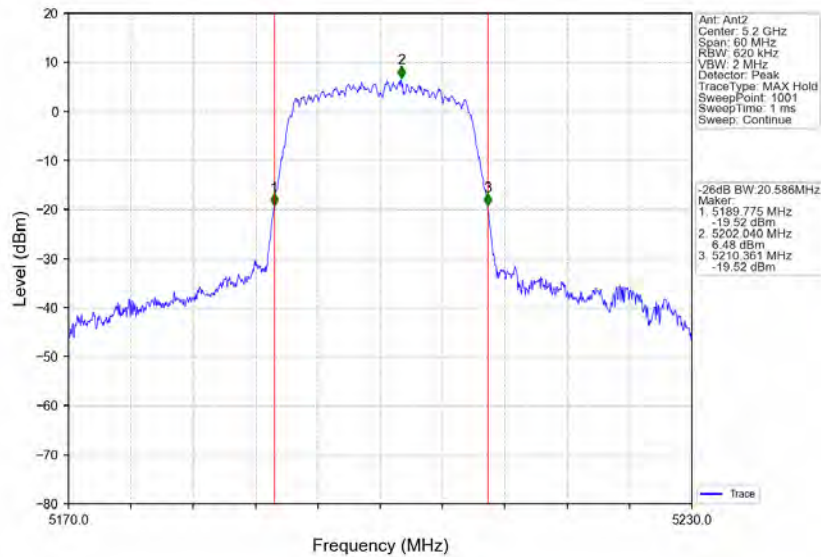
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802.11n(HT20)_MCH_5200MHz_Ant3_NTNV



802.11n(HT20)_MCH_5200MHz_Ant4_NTNV



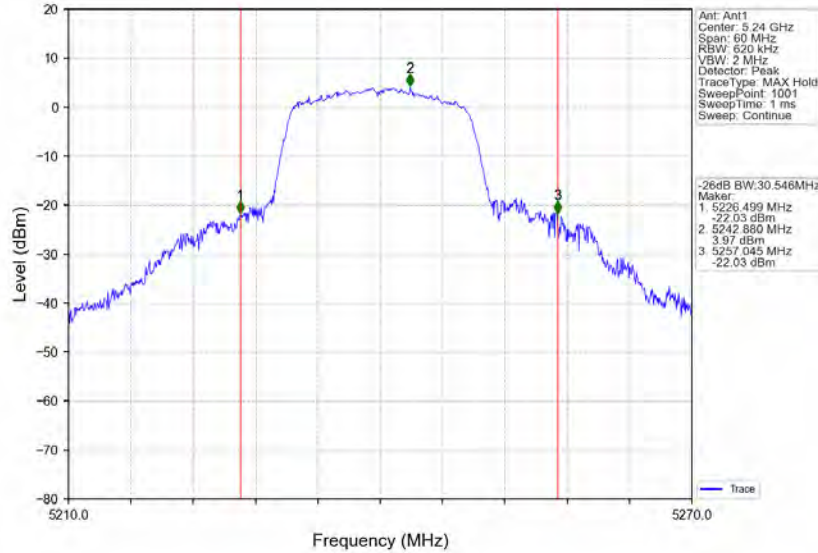
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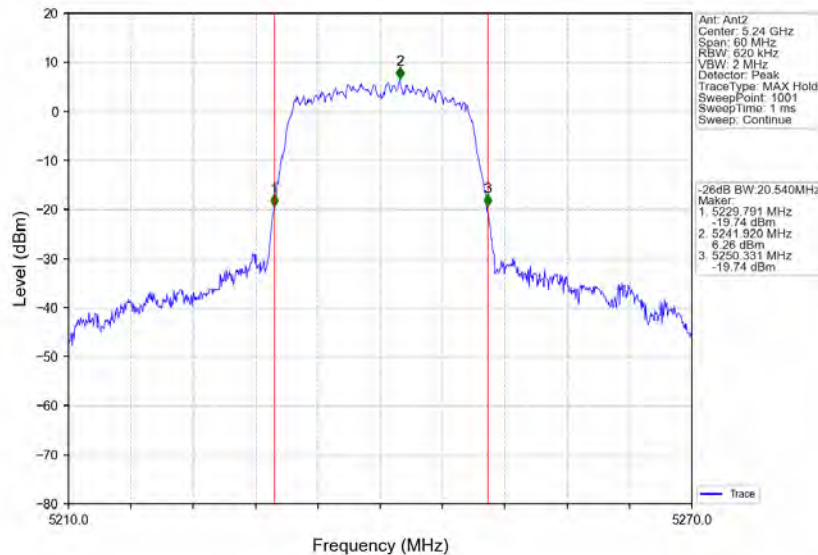
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802.11n(HT20)_HCH_5240MHz_Ant3_NTNV



802.11n(HT20)_HCH_5240MHz_Ant4_NTNV

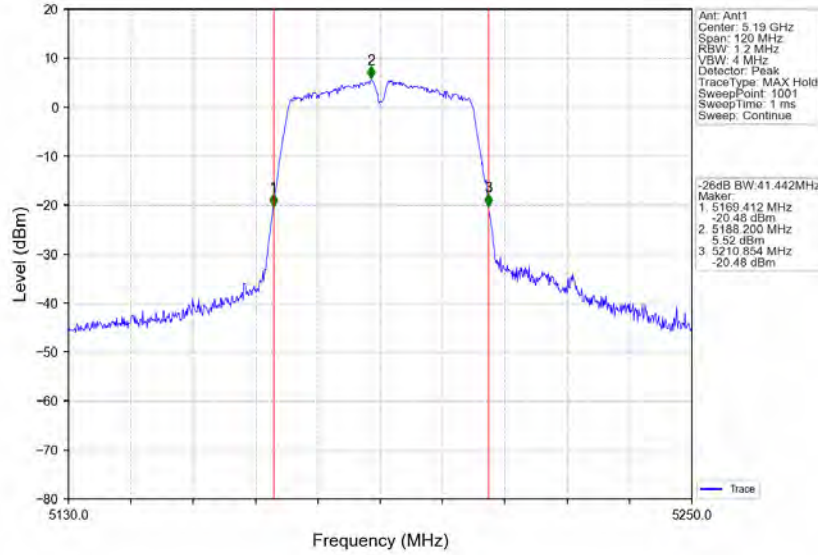


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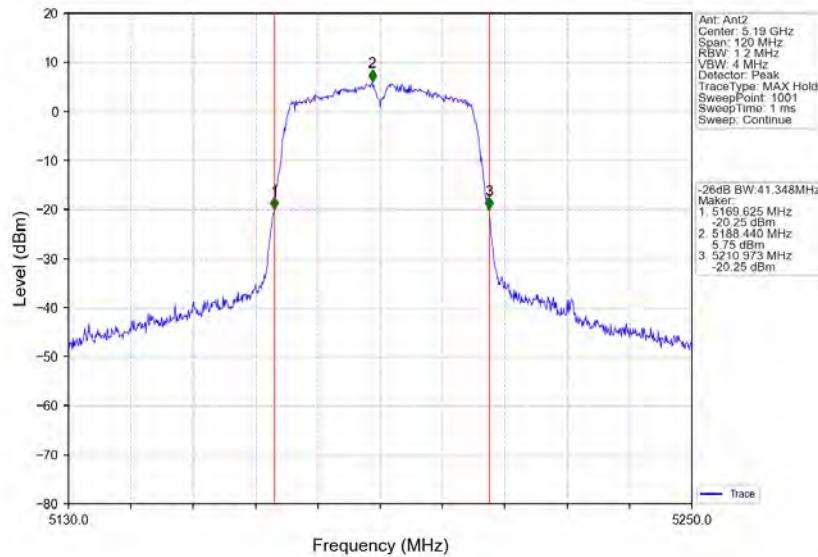
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802.11n(HT40)_LCH_5190MHz_Ant3_NTNV



802.11n(HT40)_LCH_5190MHz_Ant4_NTNV



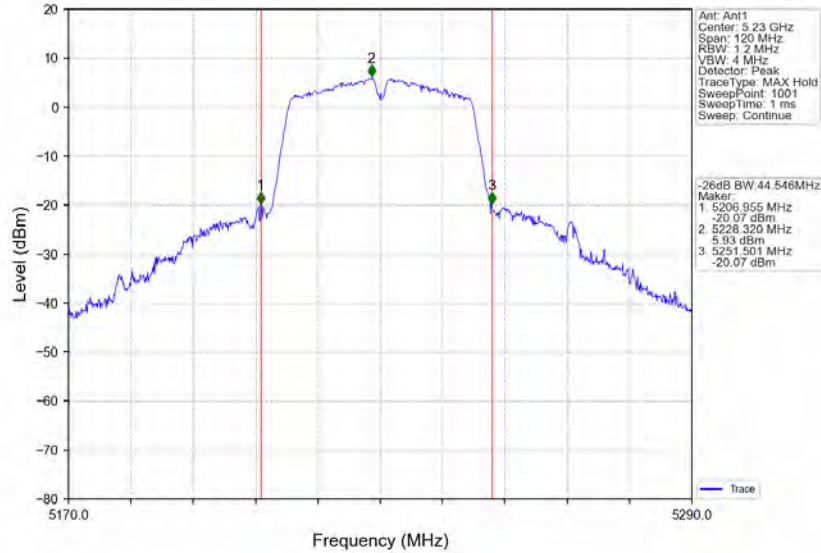
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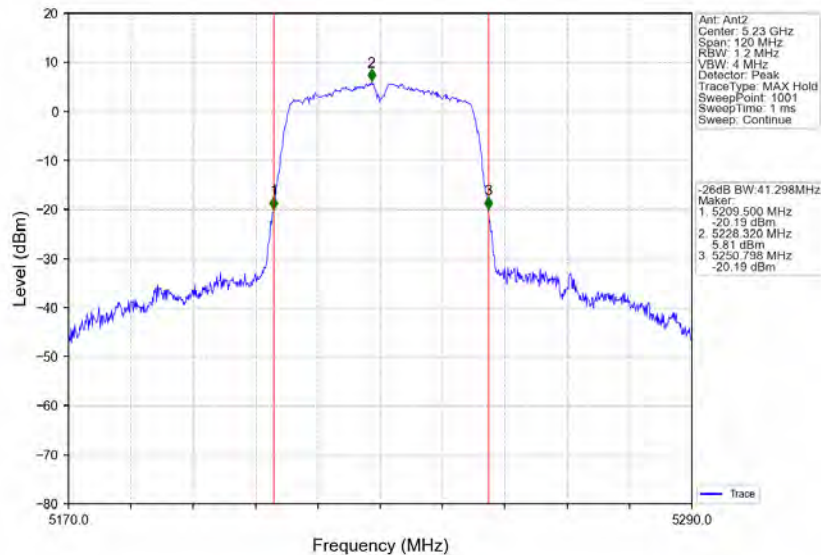
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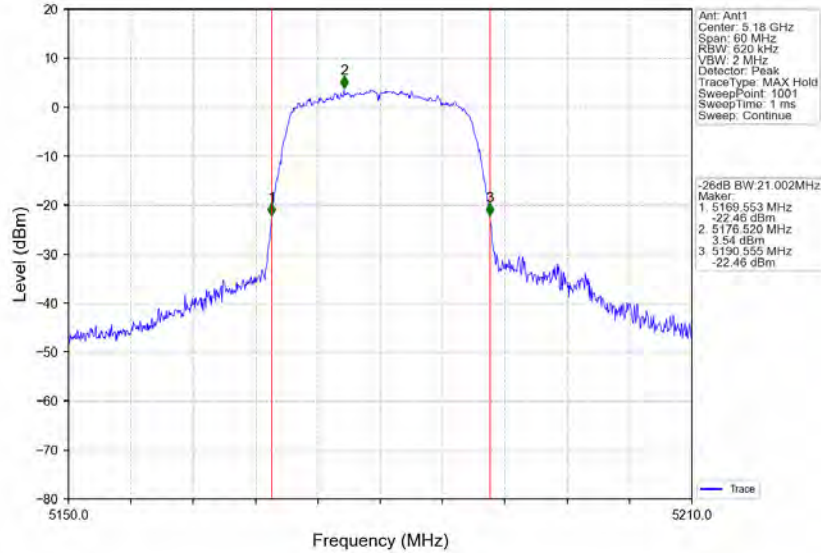
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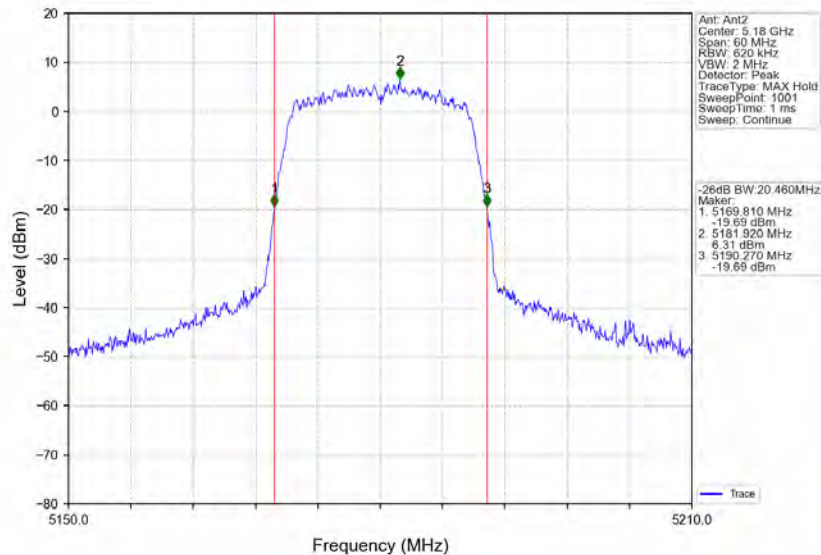
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802.11ac(VHT20)_LCH_5180MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant4_NTNV



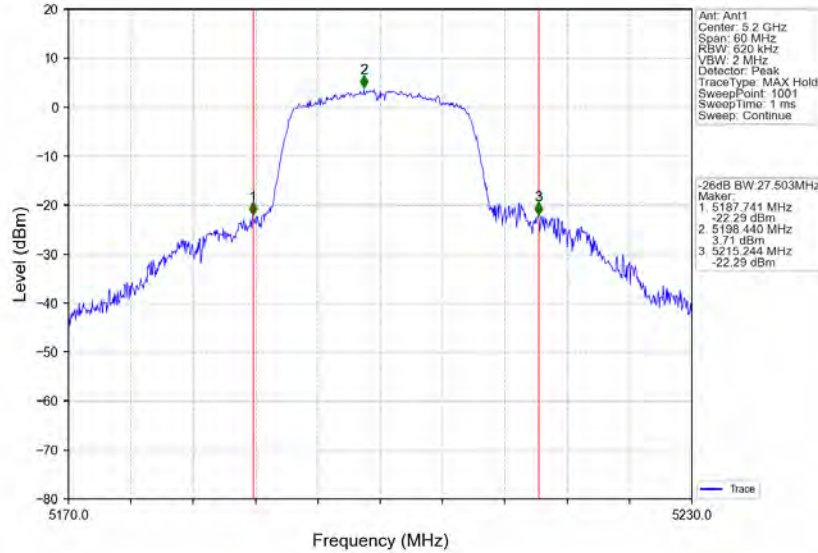
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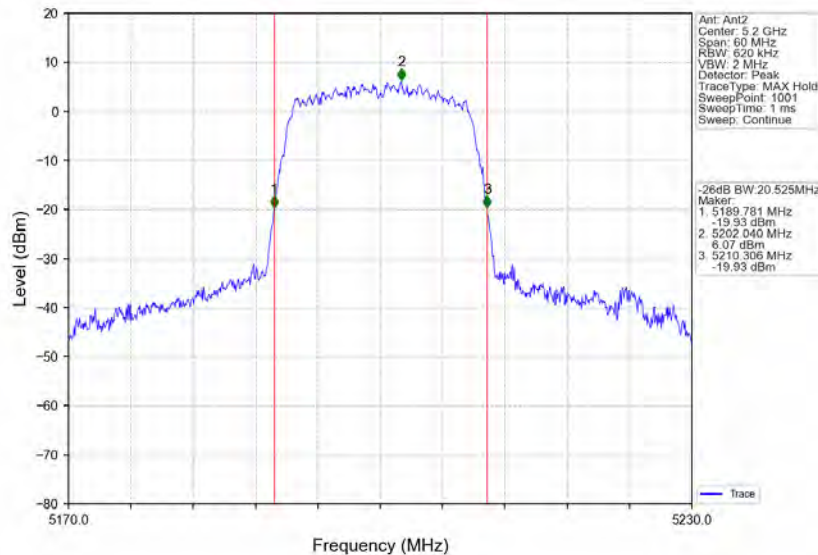
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802.11ac(VHT20)_MCH_5200MHz_Ant4_NTNV



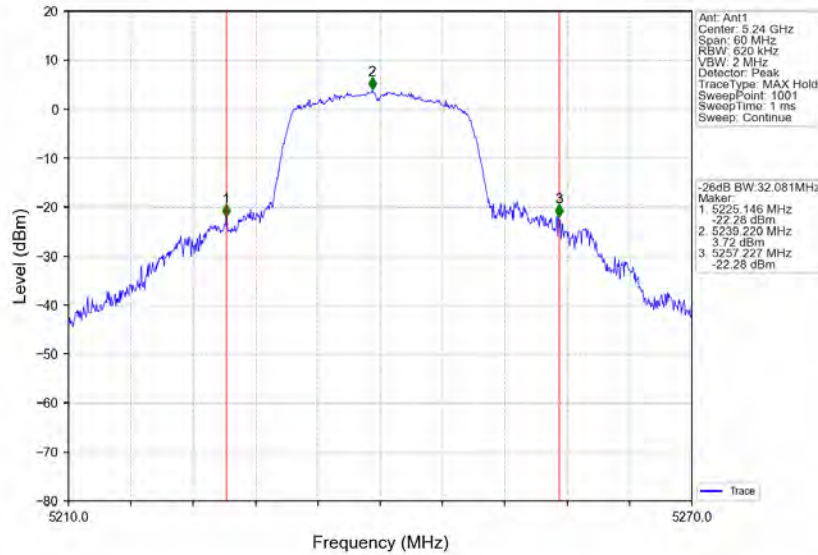
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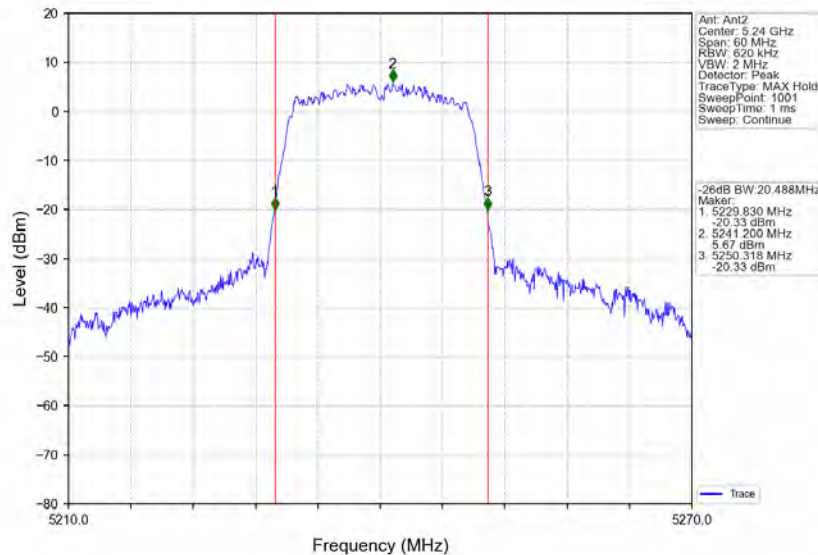
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802.11ac(VHT20)_HCH_5240MHz_Ant4_NTNV



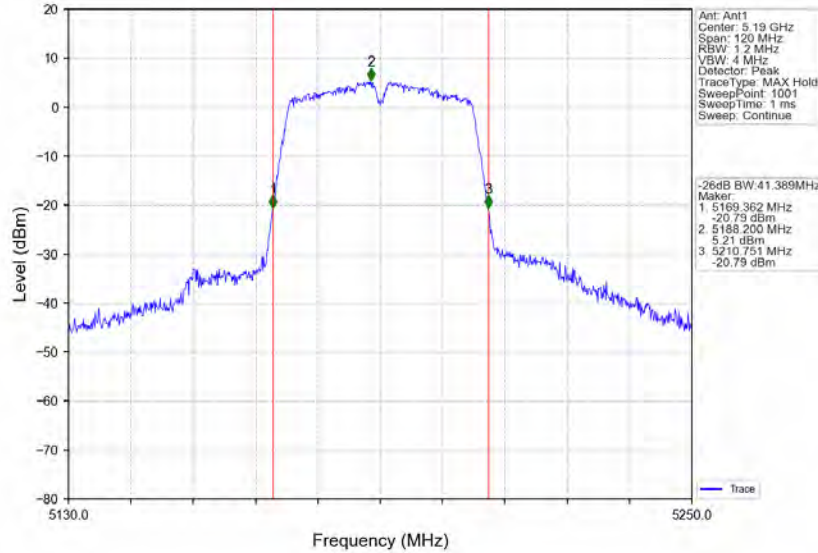
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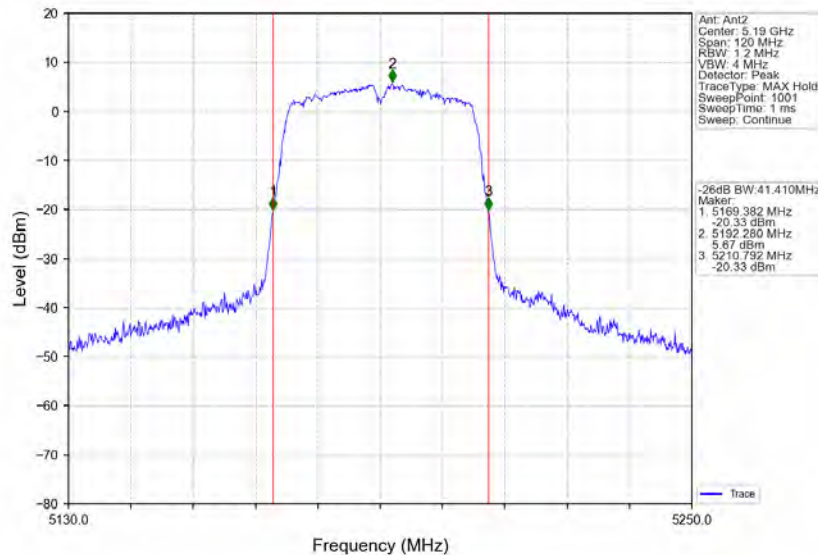
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV

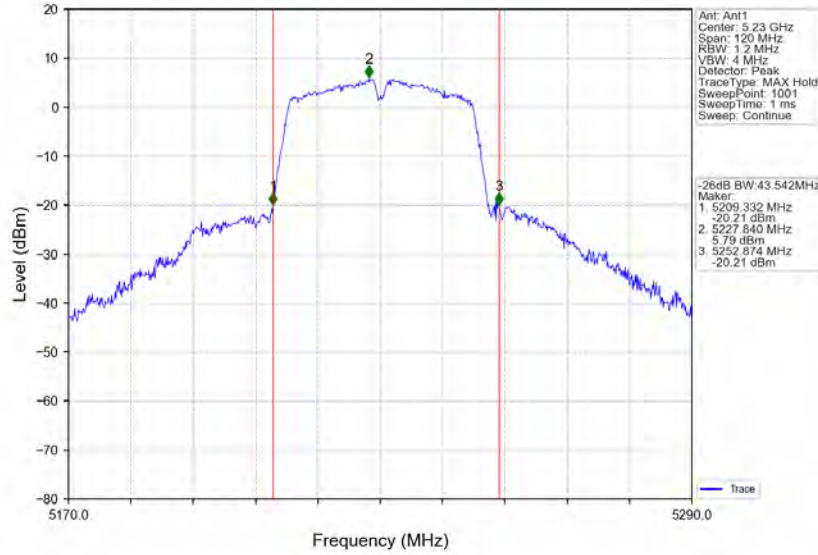


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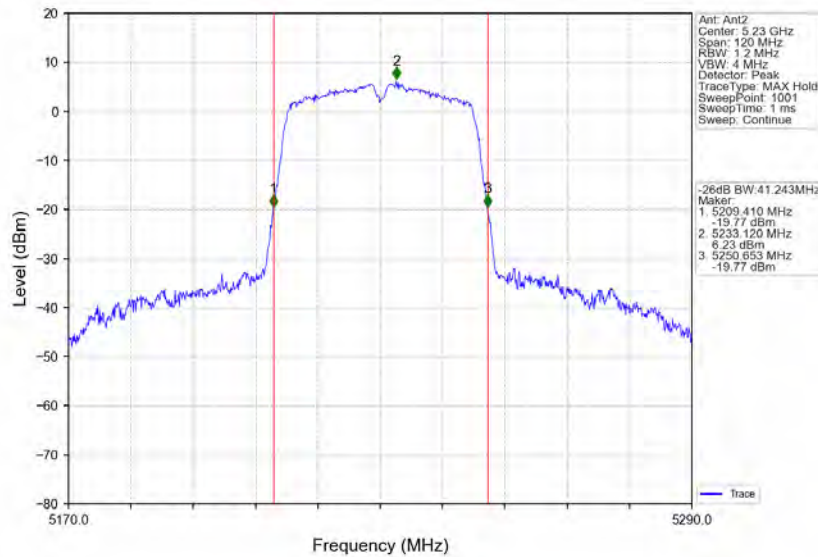
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802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV



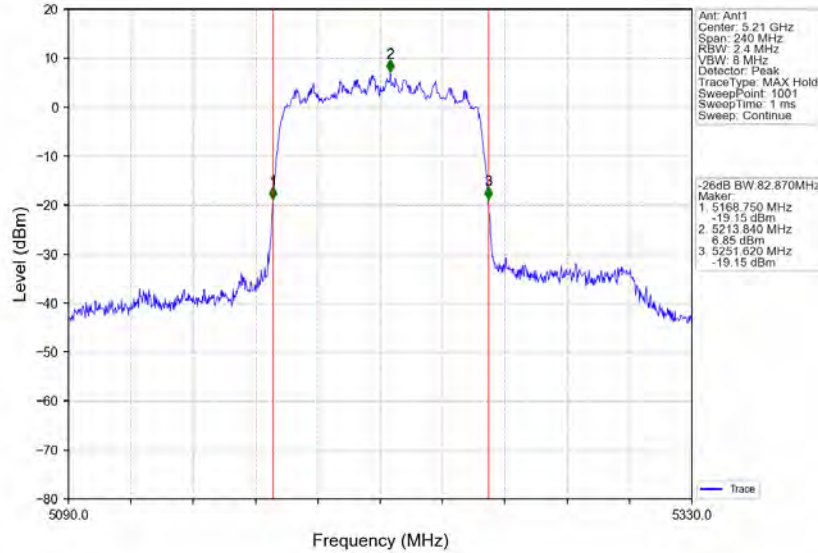
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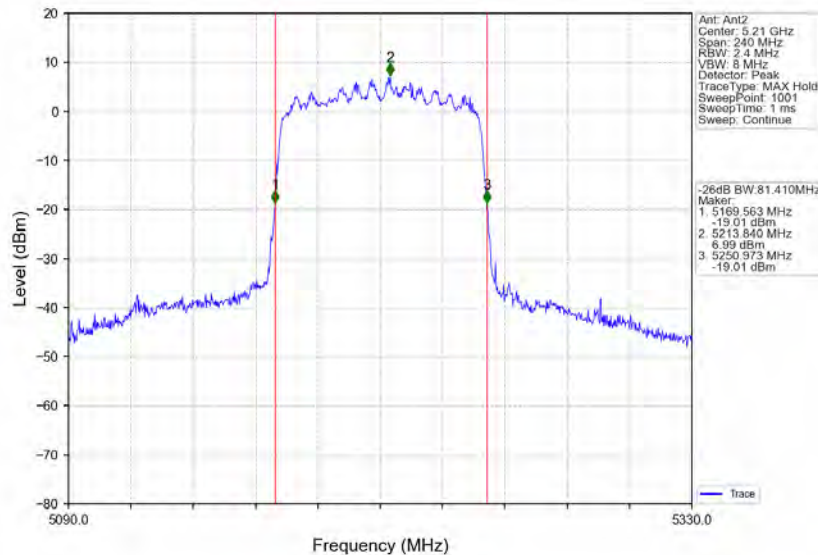
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant4_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
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5180	12.08	12.08	/	<=23.98	Pass
		5200	11.94	12.12	/	<=23.98	Pass
		5240	12.36	12.08	/	<=23.98	Pass
		5745	12.19	11.11	/	<=30	Pass
		5785	12.33	11.26	/	<=30	Pass
		5825	12.05	11.93	/	<=30	Pass
802.11n (HT20)	MIMO	5180	9.09	9.20	12.16	<=23.98	Pass
		5200	9.11	9.46	12.30	<=23.98	Pass
		5240	9.44	9.26	12.36	<=23.98	Pass
		5745	9.11	8.42	11.79	<=30	Pass
		5785	9.25	8.51	11.91	<=30	Pass
		5825	8.88	9.13	12.02	<=30	Pass
802.11n (HT40)	MIMO	5190	9.40	9.51	12.47	<=23.98	Pass
		5230	9.71	9.58	12.66	<=23.98	Pass
		5755	9.82	8.68	12.30	<=30	Pass
		5795	9.38	8.95	12.18	<=30	Pass
802.11ac (VHT20)	MIMO	5180	9.08	9.18	12.14	<=23.98	Pass
		5200	9.03	9.29	12.17	<=23.98	Pass
		5240	9.23	9.24	12.25	<=23.98	Pass
		5745	8.98	8.38	11.70	<=30	Pass
		5785	9.01	8.55	11.80	<=30	Pass
		5825	8.71	9.13	11.94	<=30	Pass
802.11ac (VHT40)	MIMO	5190	9.14	9.47	12.32	<=23.98	Pass
		5230	9.62	9.52	12.58	<=23.98	Pass
		5755	9.63	8.63	12.17	<=30	Pass
		5795	9.31	8.92	12.13	<=30	Pass
802.11ac (VHT80)	MIMO	5210	8.72	8.82	11.78	<=23.98	Pass
		5775	12.62	8.55	14.06	<=30	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.

For U-NII-3 Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi. Directional gain:5.51dBi.



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EIRP for IC

Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)				Verdict
			Ant3	Ant4	MIMO	Limit	
802.11a	SISO	5180	14.58	13.70	/	<=23.01	Pass
		5200	14.44	13.74	/	<=23.01	Pass
		5240	14.86	13.70	/	<=23.01	Pass
		5745	14.65	13.66	/	/	Pass
		5785	14.79	13.81	/	/	Pass
		5825	14.51	14.48	/	/	Pass
802.11n (HT20)	MIMO	5180	11.59	10.82	14.23	<=23.01	Pass
		5200	11.61	11.08	14.36	<=23.01	Pass
		5240	11.94	10.88	14.45	<=23.01	Pass
		5745	11.57	10.97	14.29	/	Pass
		5785	11.71	11.06	14.41	/	Pass
		5825	11.34	11.68	14.52	/	Pass
802.11n (HT40)	MIMO	5190	11.90	11.13	14.54	<=23.01	Pass
		5230	12.21	11.20	14.74	<=23.01	Pass
		5755	12.28	11.23	14.80	/	Pass
		5795	11.84	11.50	14.68	/	Pass
802.11ac (VHT20)	MIMO	5180	11.58	10.80	14.22	<=23.01	Pass
		5200	11.53	10.91	14.24	<=23.01	Pass
		5240	11.73	10.86	14.33	<=23.01	Pass
		5745	11.44	10.93	14.20	/	Pass
		5785	11.47	11.10	14.30	/	Pass
		5825	11.17	11.68	14.44	/	Pass
802.11ac (VHT40)	MIMO	5190	11.64	11.09	14.38	<=23.01	Pass
		5230	12.12	11.14	14.67	<=23.01	Pass
		5755	12.09	11.18	14.67	/	Pass
		5795	11.77	11.47	14.63	/	Pass
802.11ac (VHT80)	MIMO	5210	11.22	10.44	13.86	<=23.01	Pass
		5775	15.08	11.10	16.54	/	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.

For U-NII-3 Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi. Directional gain:5.51dBi.

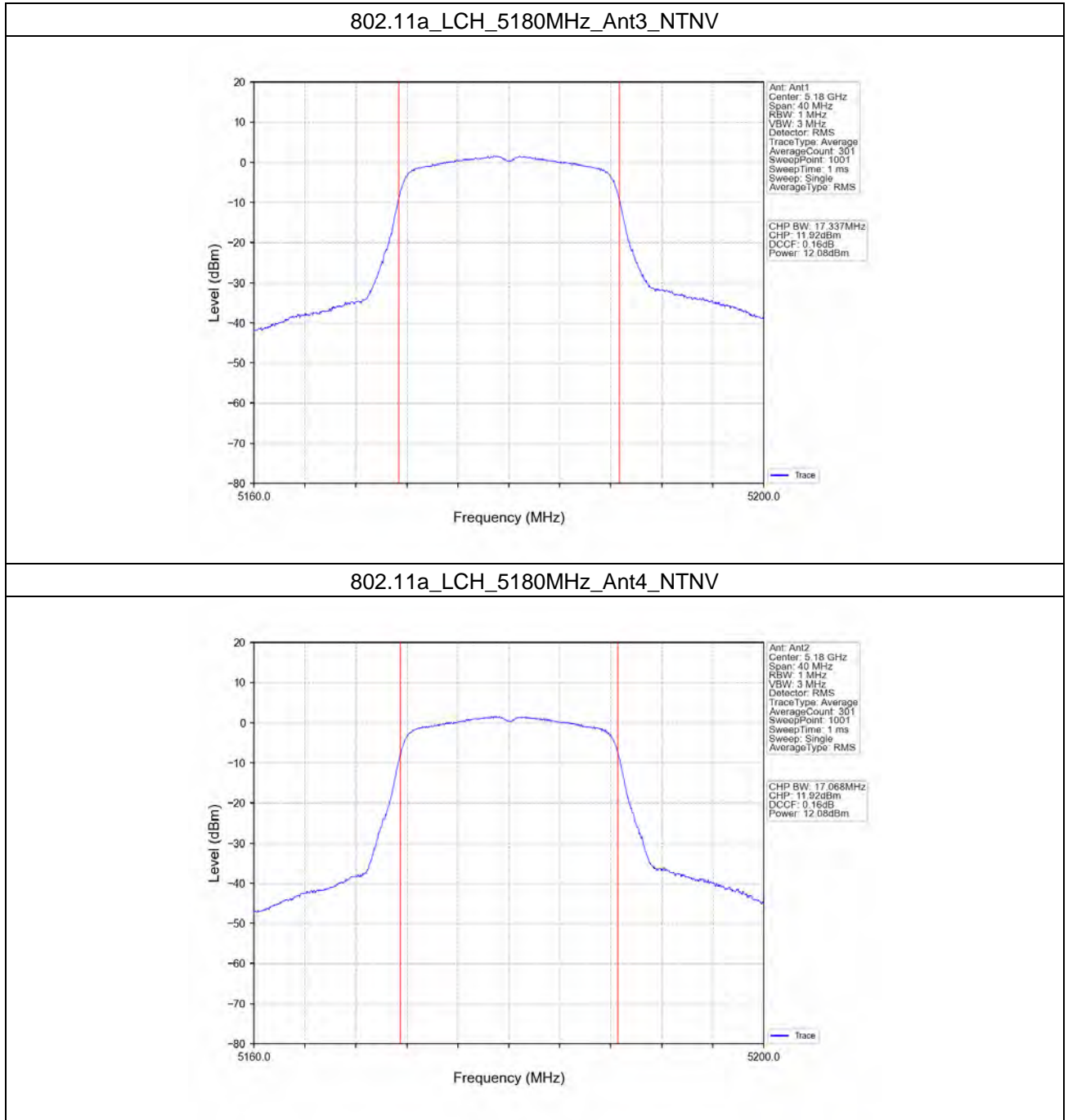
Note2: E.I.R.P = Measured Power + Antenna Gain



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3.1.2 Test Graph



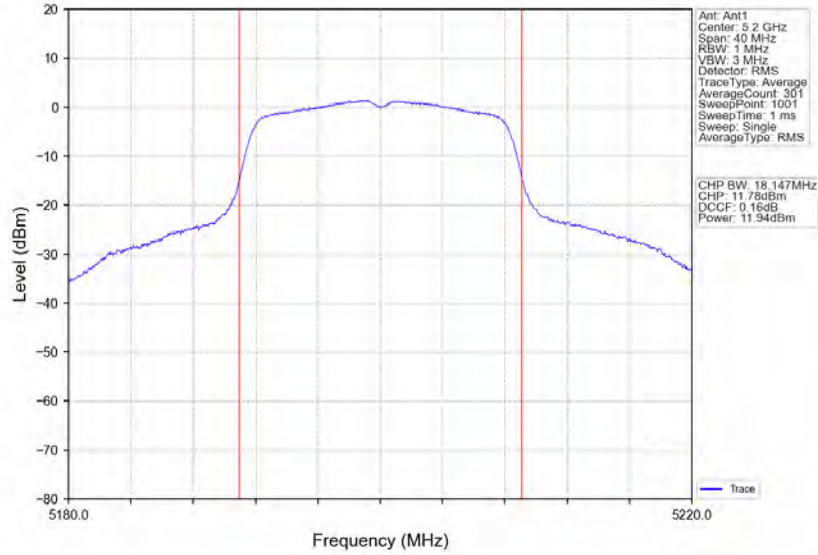
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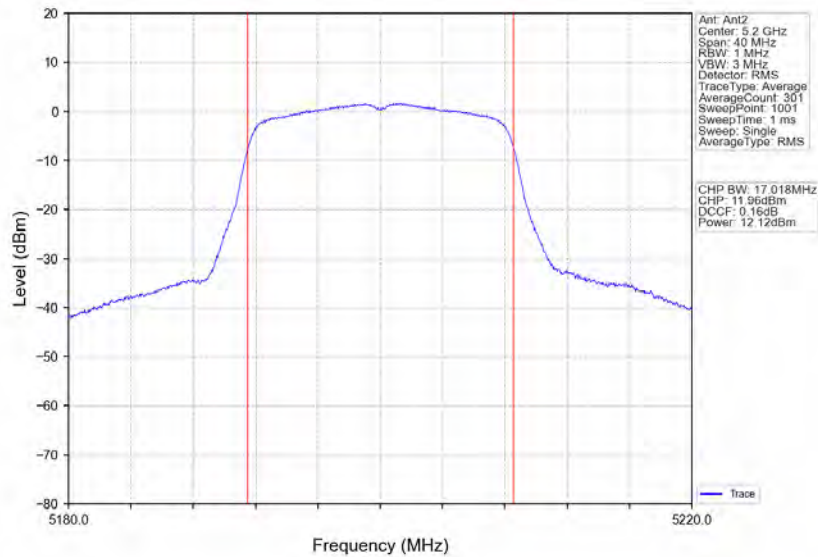
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802.11a_MCH_5200MHz_Ant3_NTNV



802.11a_MCH_5200MHz_Ant4_NTNV

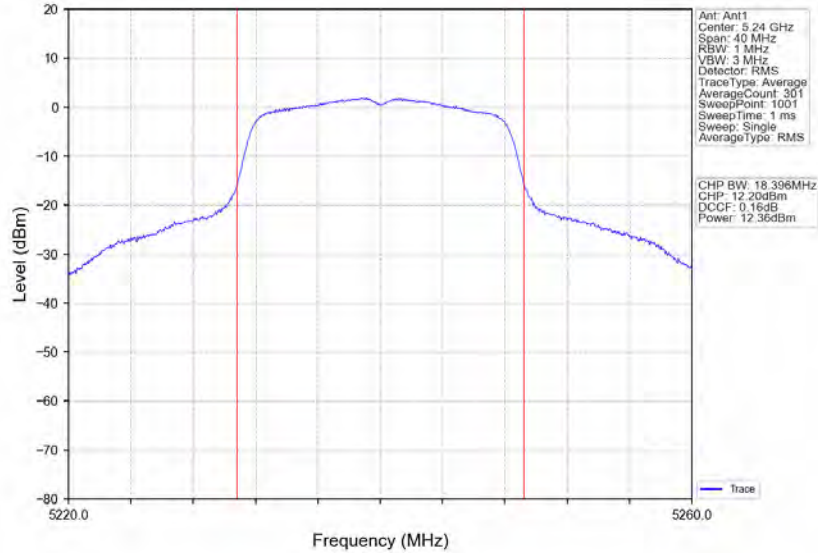


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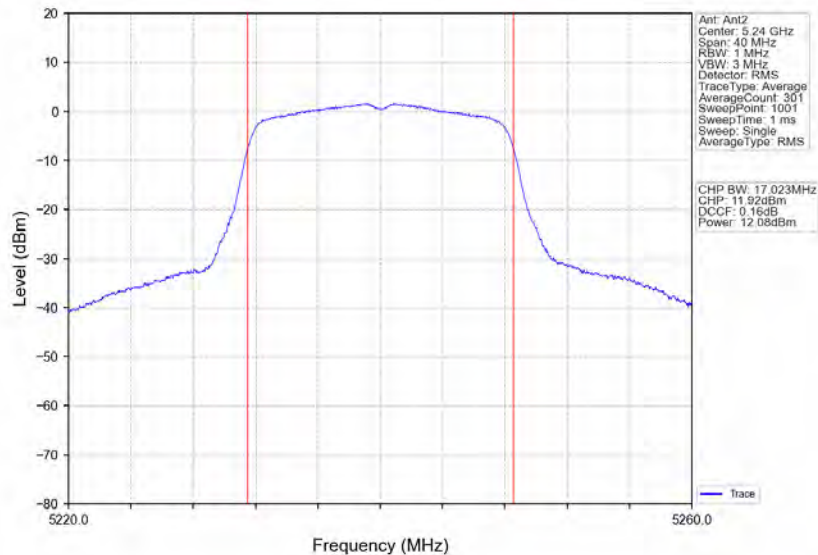
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802.11a_HCH_5240MHz_Ant4_NTNV



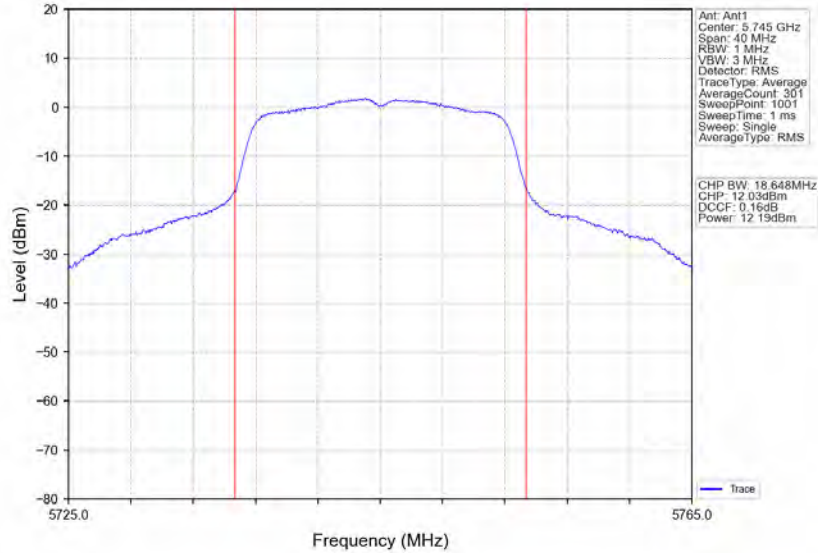
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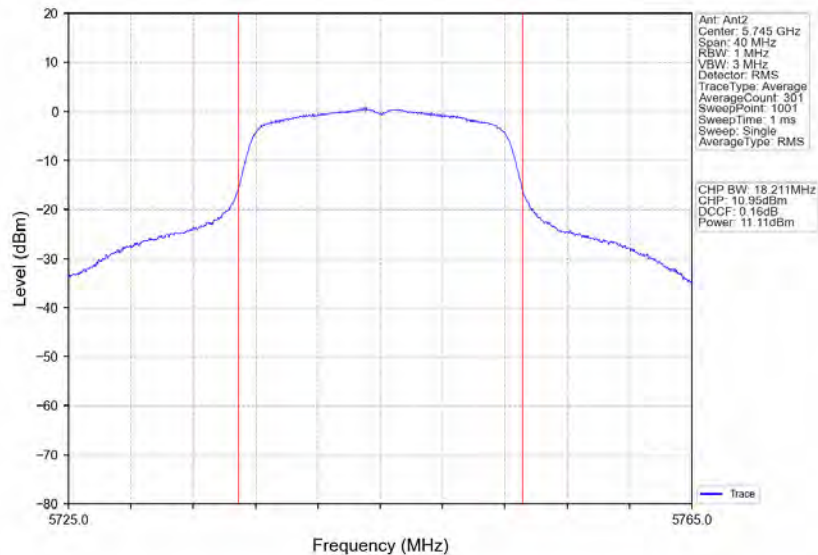
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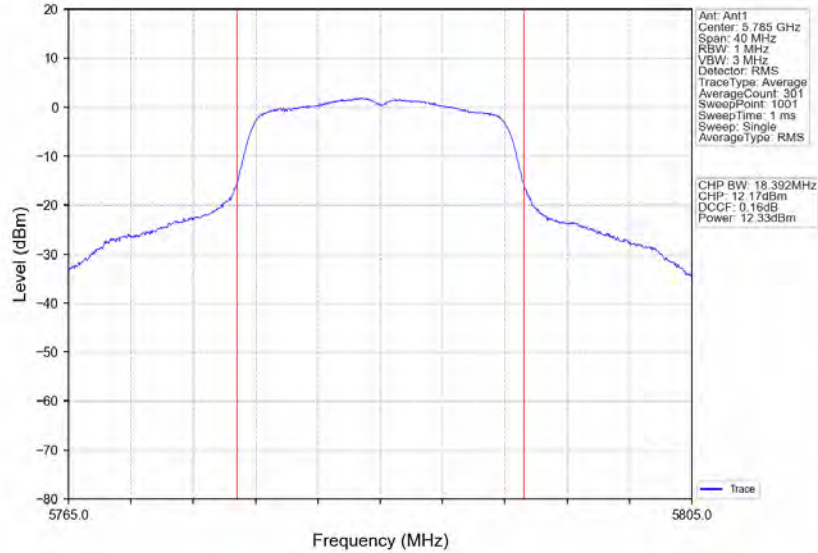
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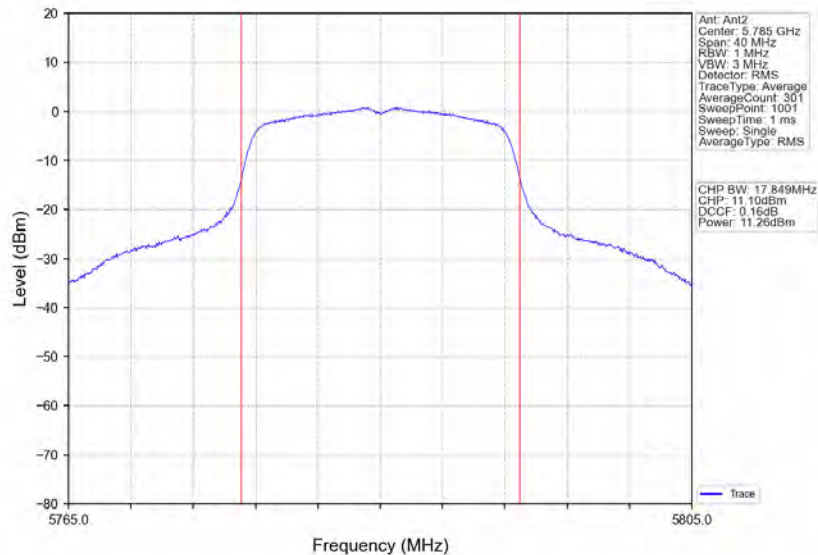
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802.11a_MCH_5785MHz_Ant4_NTNV

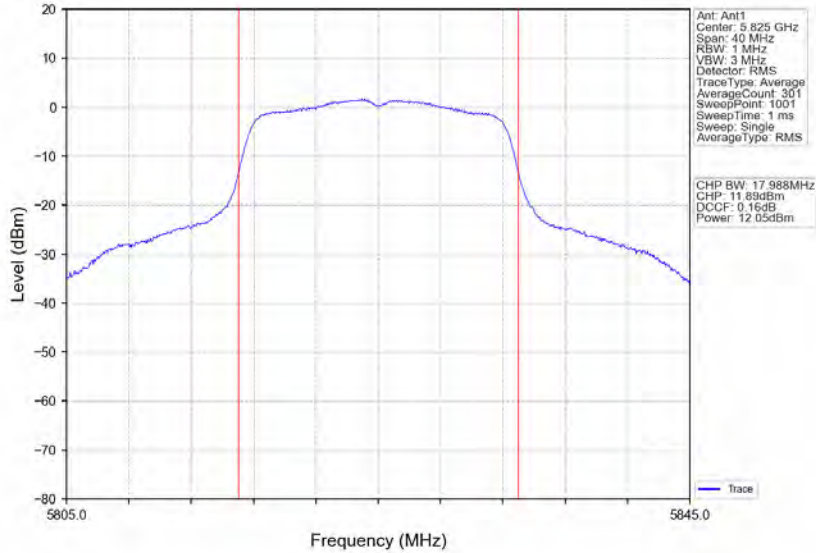


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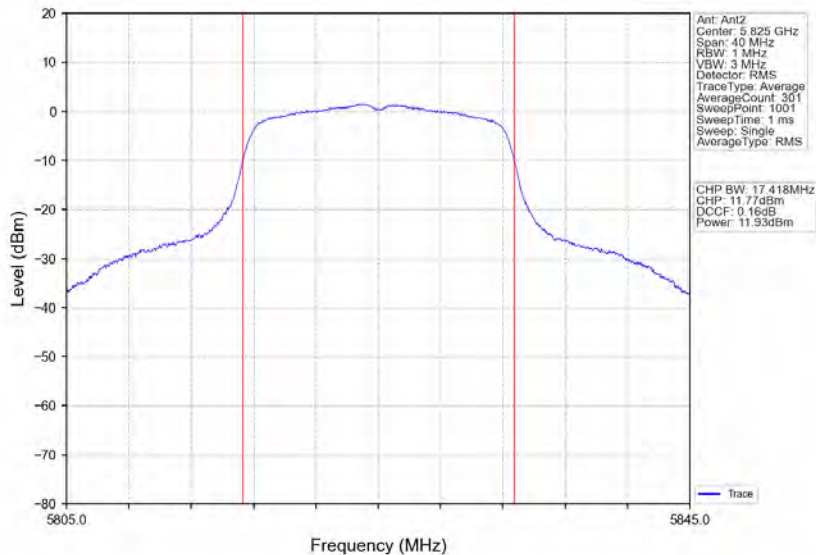
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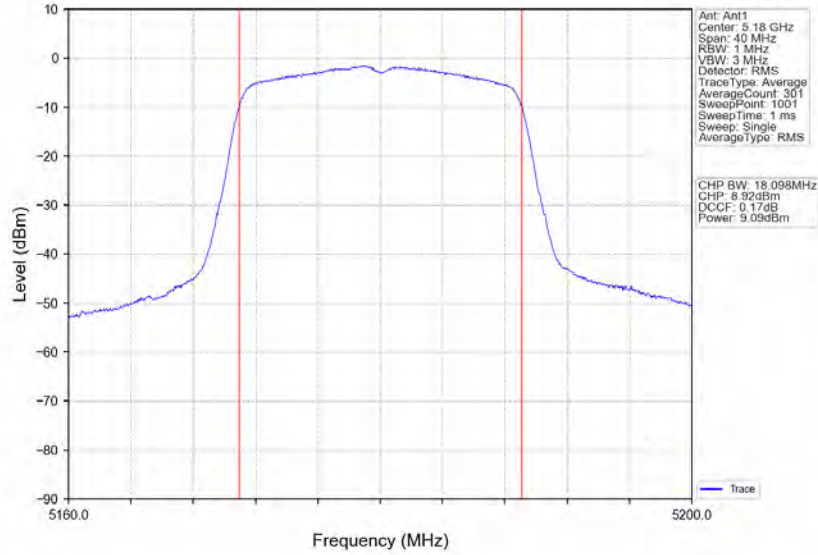
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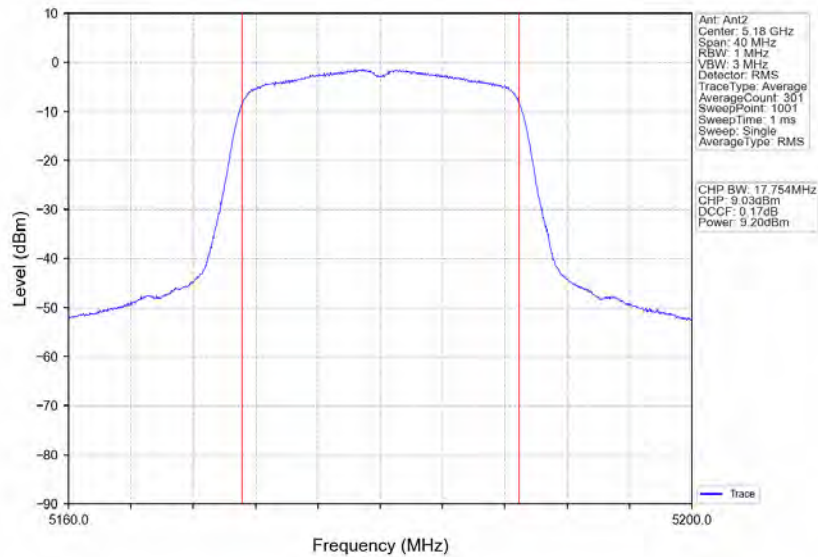
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802.11n(HT20)_LCH_5180MHz_Ant3_NTNV



802.11n(HT20)_LCH_5180MHz_Ant4_NTNV



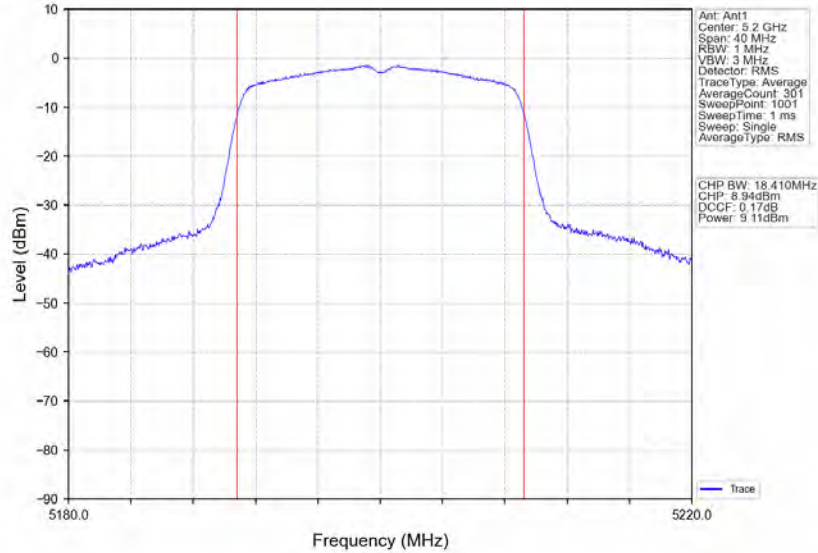
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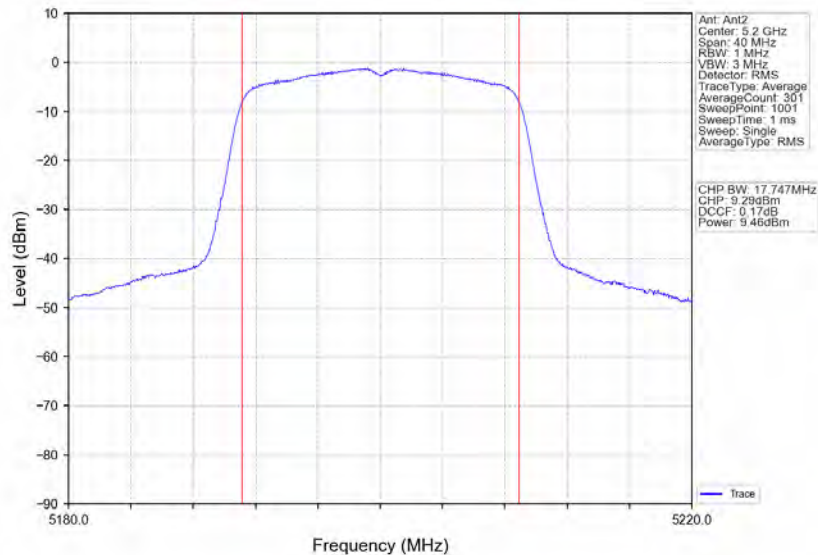
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802.11n(HT20)_MCH_5200MHz_Ant3_NTNV



802.11n(HT20)_MCH_5200MHz_Ant4_NTNV

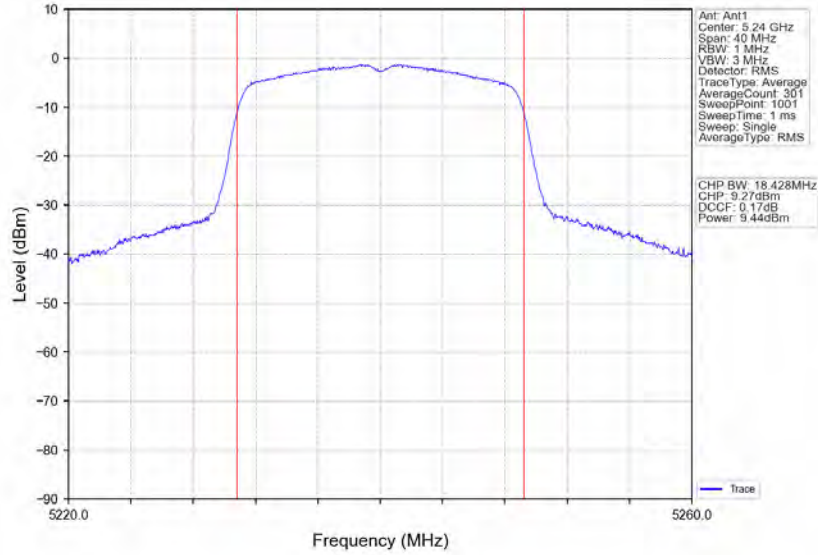


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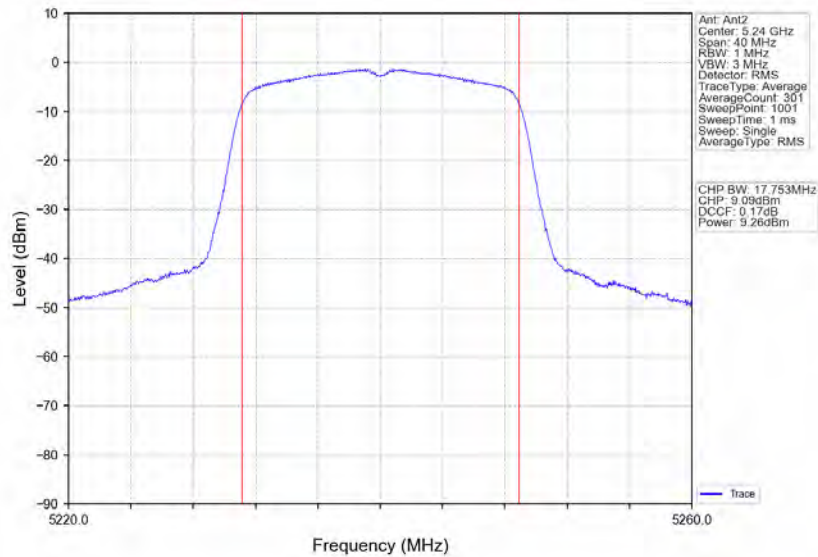
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802.11n(HT20)_HCH_5240MHz_Ant3_NTNV



802.11n(HT20)_HCH_5240MHz_Ant4_NTNV



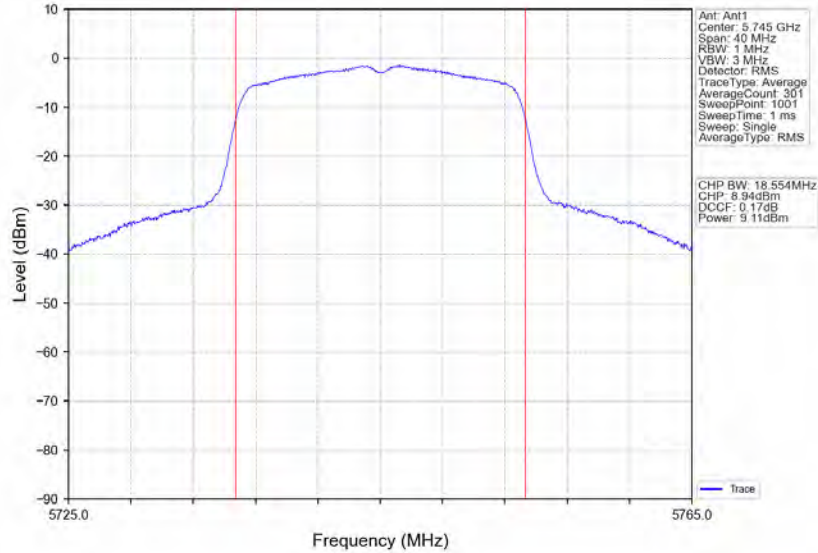
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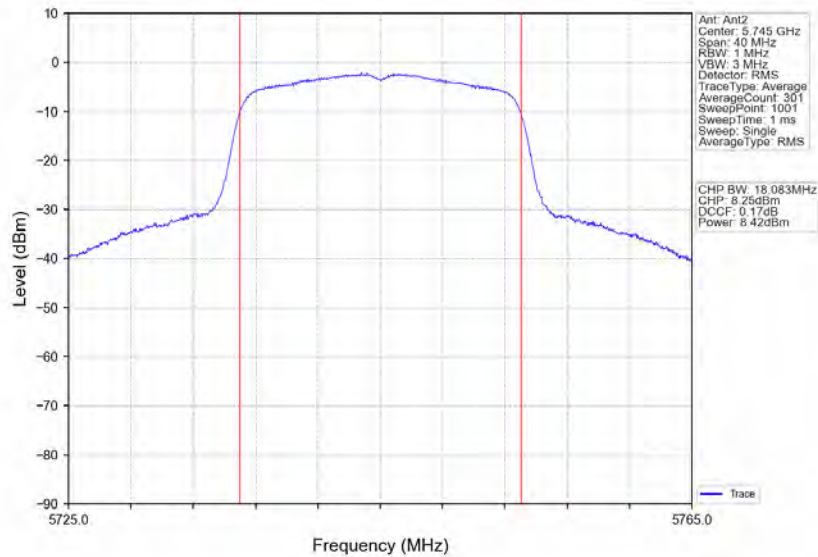
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802.11n(HT20)_LCH_5745MHz_Ant3_NTNV



802.11n(HT20)_LCH_5745MHz_Ant4_NTNV



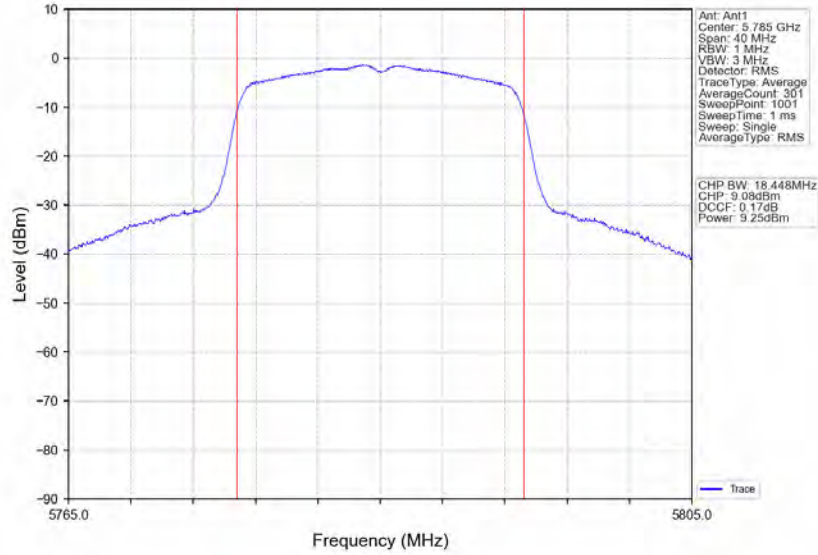
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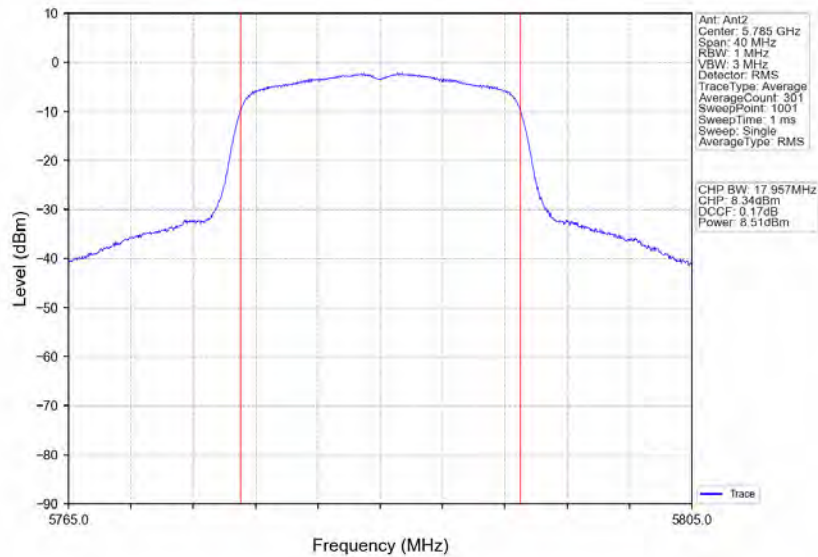
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802.11n(HT20)_MCH_5785MHz_Ant3_NTNV



802.11n(HT20)_MCH_5785MHz_Ant4_NTNV

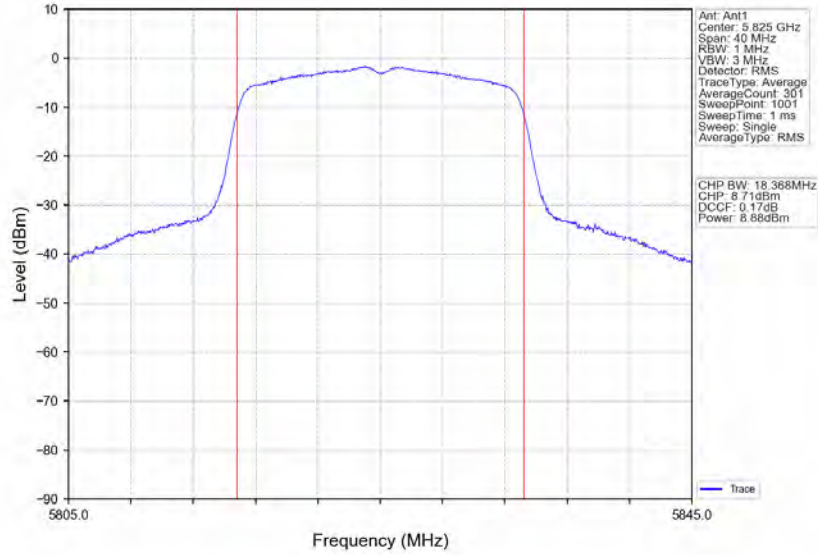


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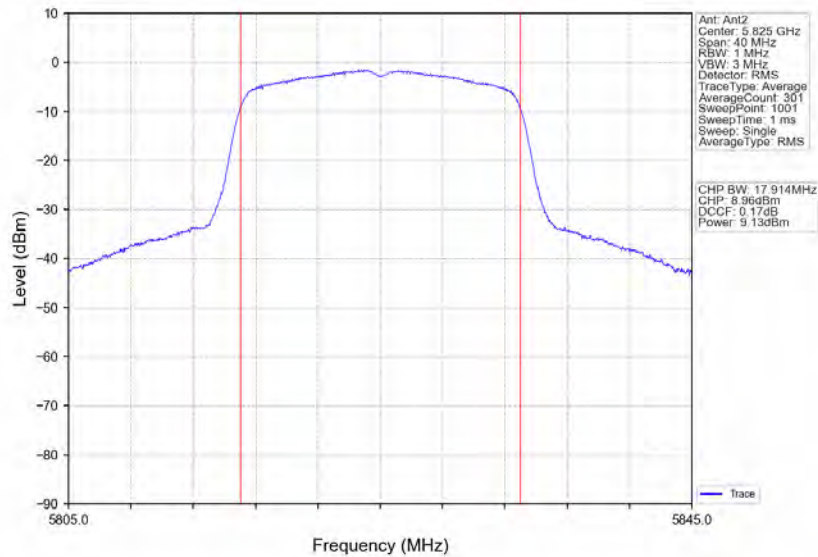
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802.11n(HT20)_HCH_5825MHz_Ant3_NTNV



802.11n(HT20)_HCH_5825MHz_Ant4_NTNV

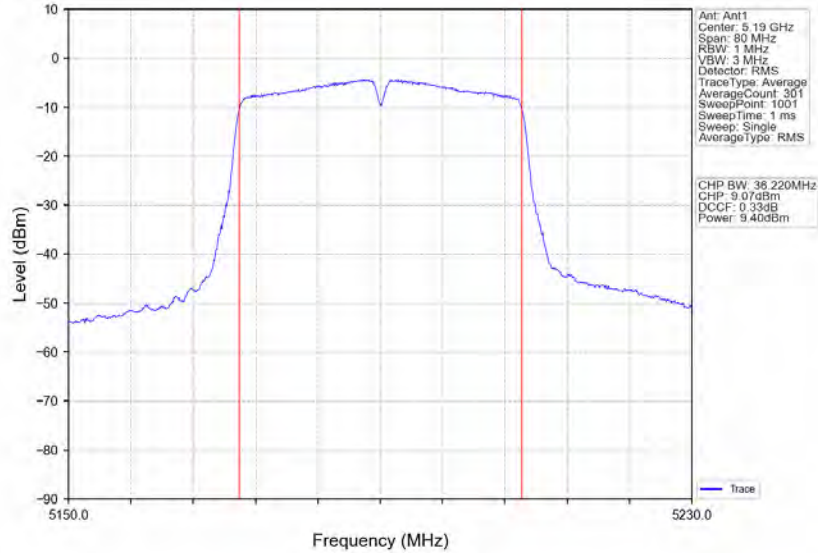


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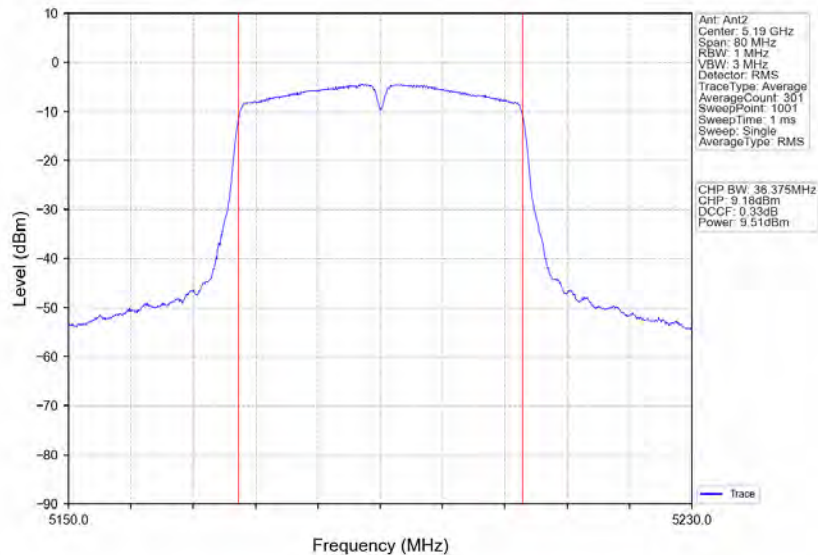
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802.11n(HT40)_LCH_5190MHz_Ant3_NTNV



802.11n(HT40)_LCH_5190MHz_Ant4_NTNV



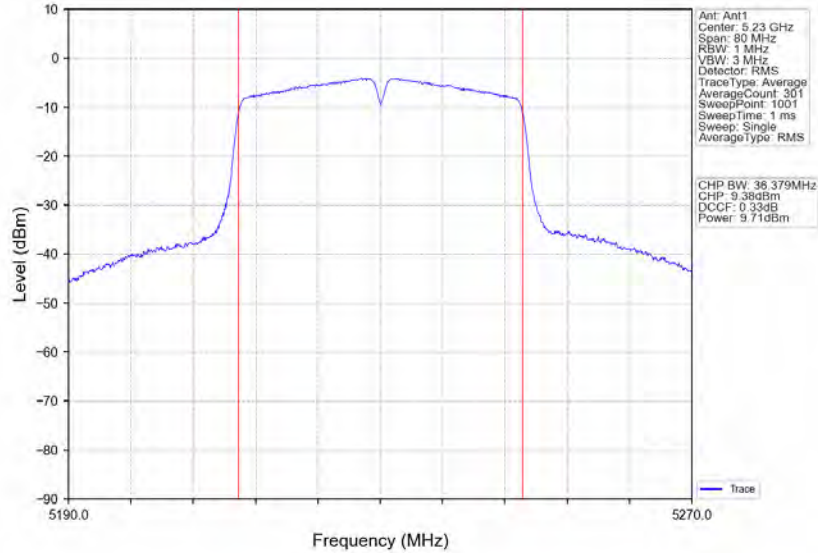
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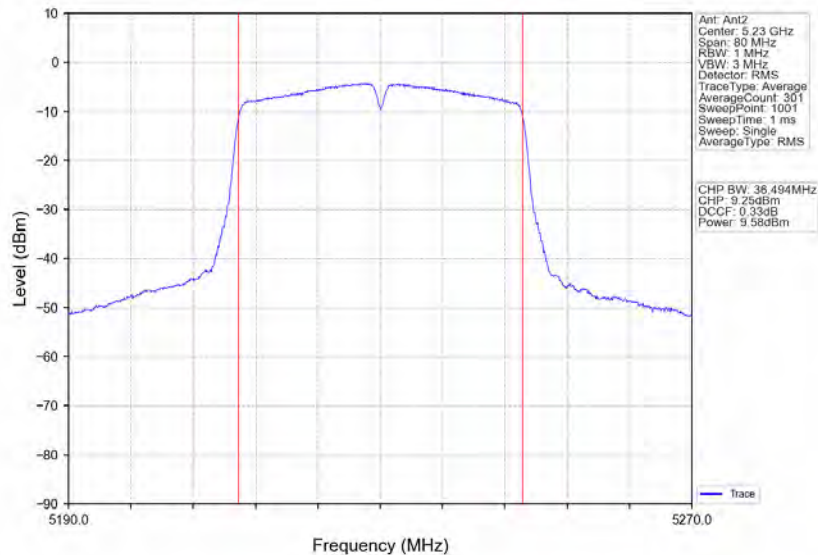
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802.11n(HT40)_HCH_5230MHz_Ant3_NTNV



802.11n(HT40)_HCH_5230MHz_Ant4_NTNV



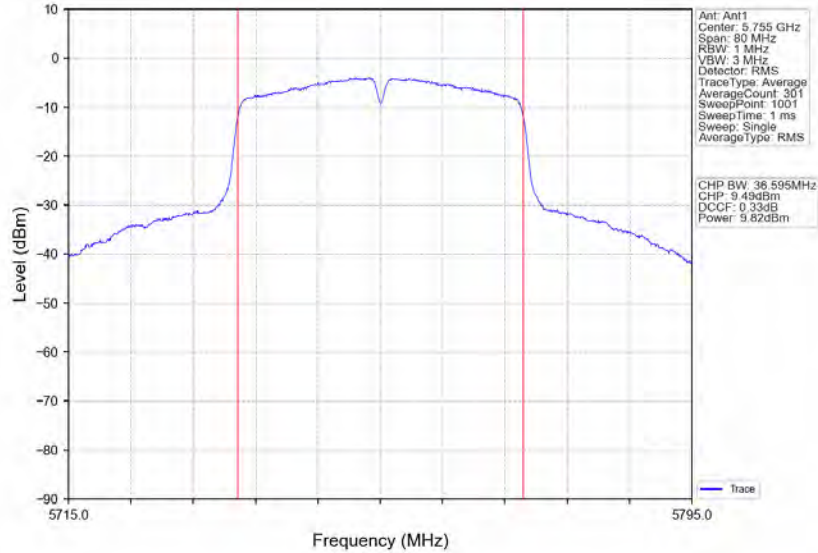
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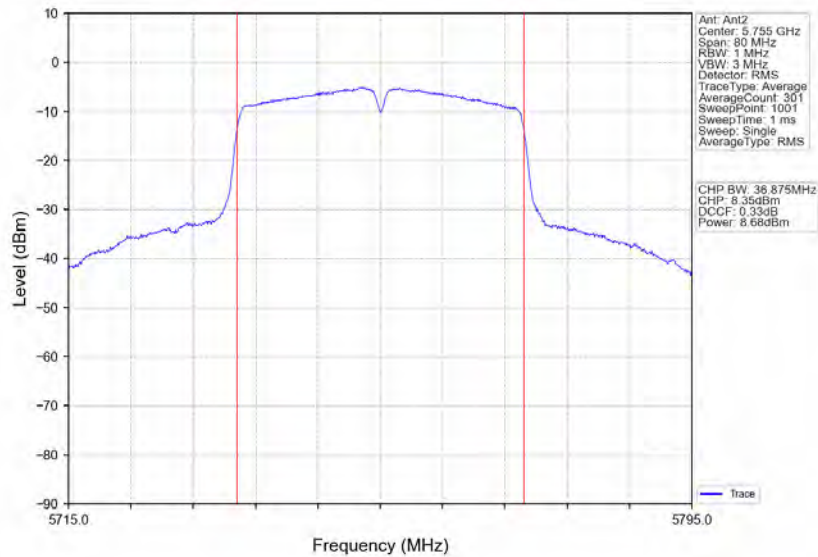
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802.11n(HT40)_LCH_5755MHz_Ant3_NTNV



802.11n(HT40)_LCH_5755MHz_Ant4_NTNV

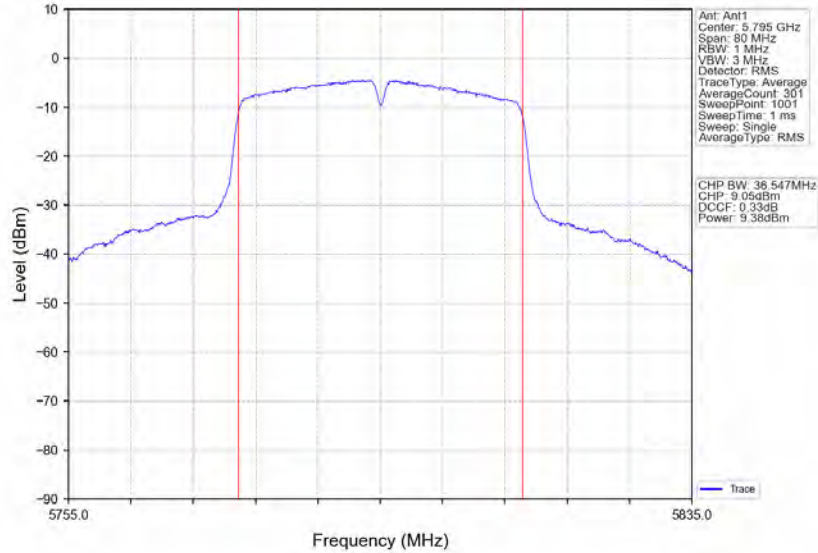


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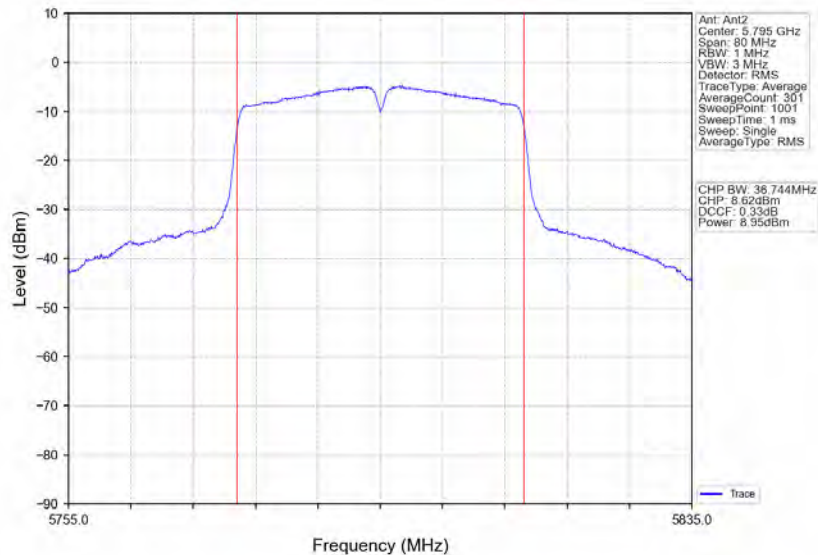
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802.11n(HT40)_HCH_5795MHz_Ant3_NTNV



802.11n(HT40)_HCH_5795MHz_Ant4_NTNV

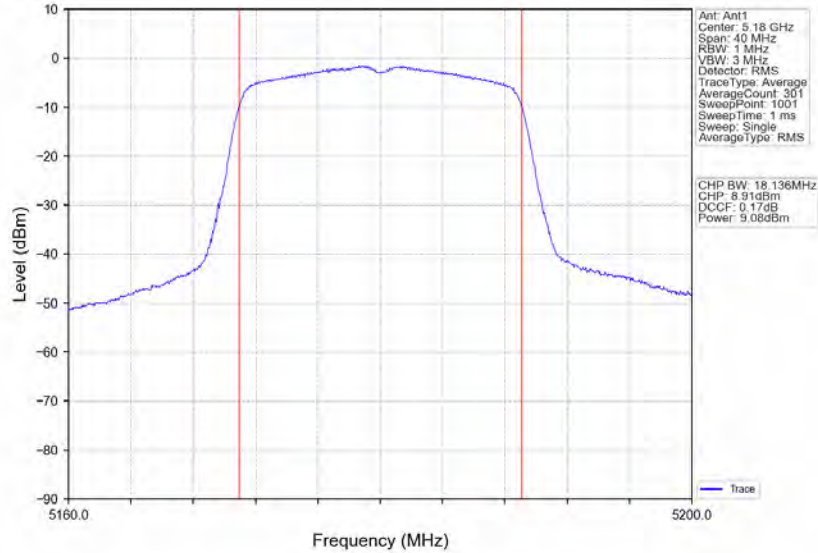


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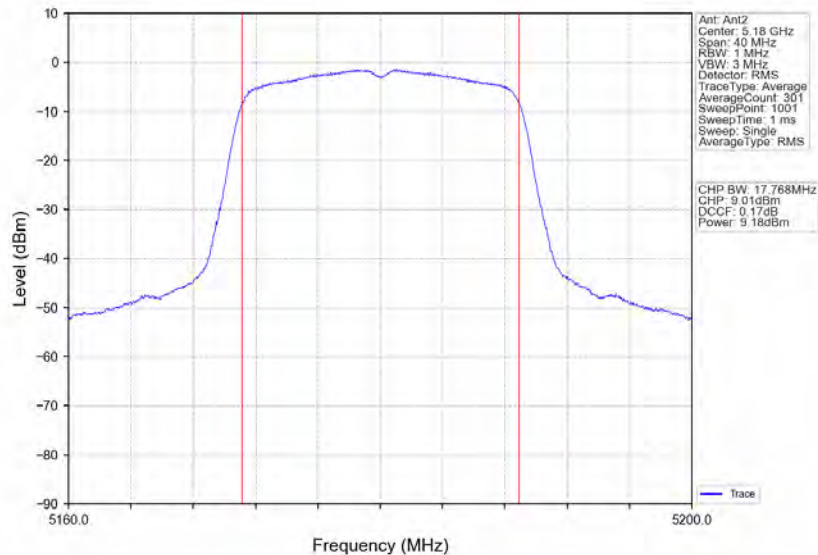
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802.11ac(VHT20)_LCH_5180MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant4_NTNV



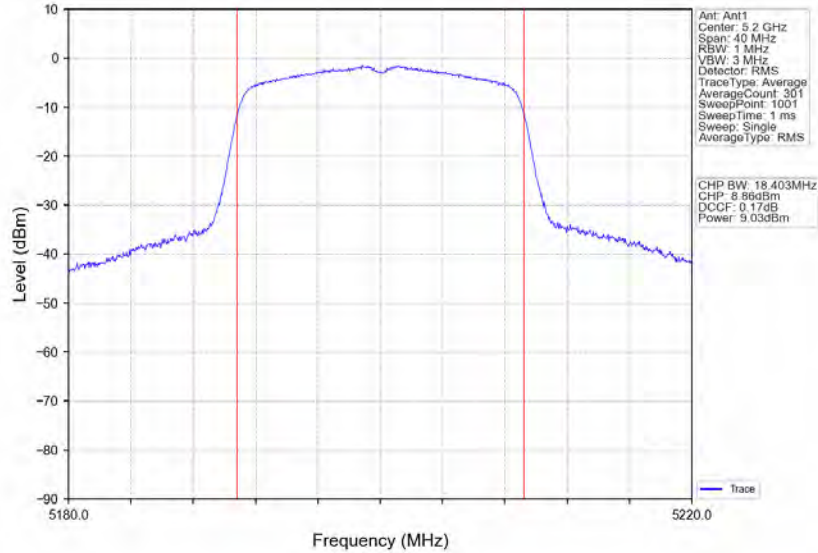
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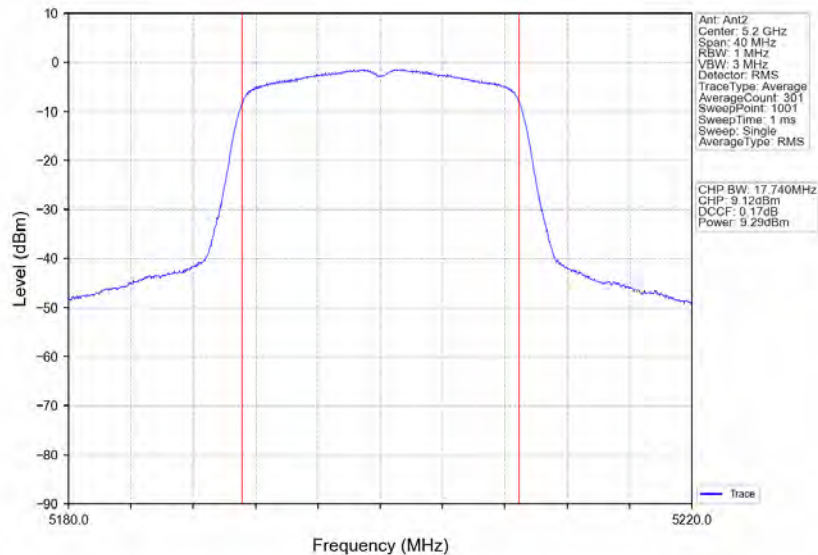
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802.11ac(VHT20)_MCH_5200MHz_Ant3_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant4_NTNV

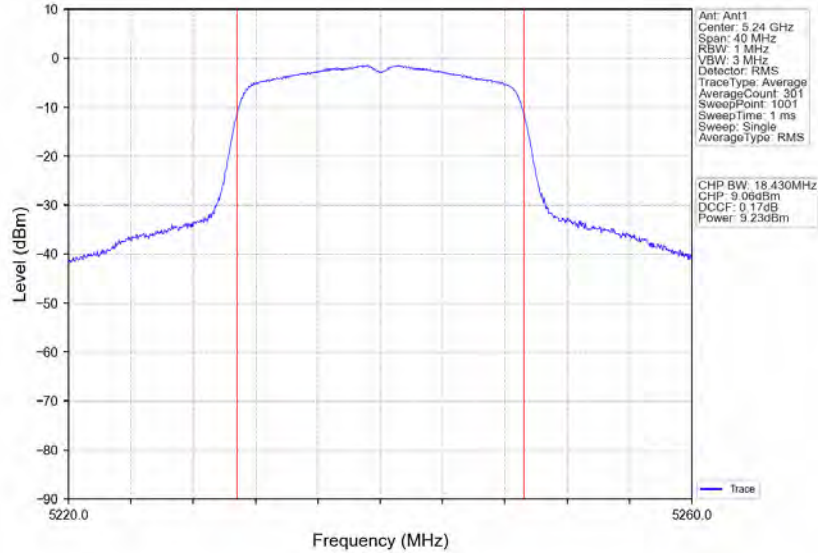


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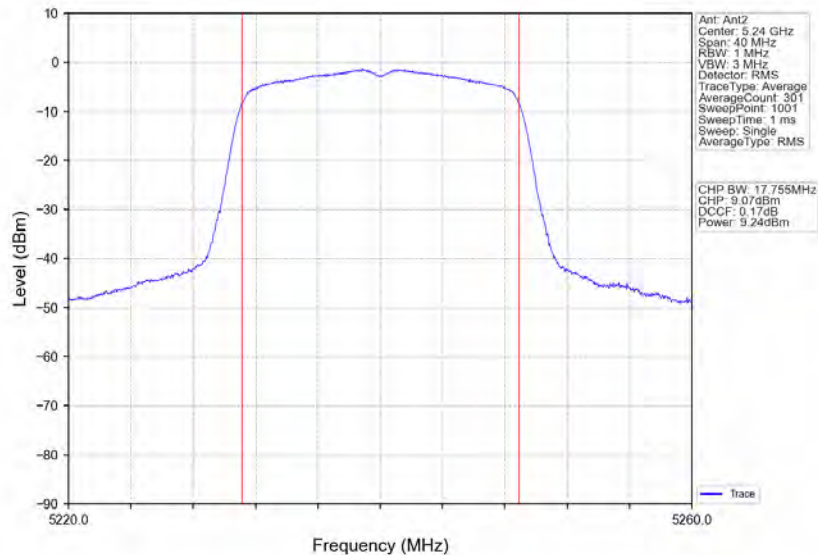
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802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



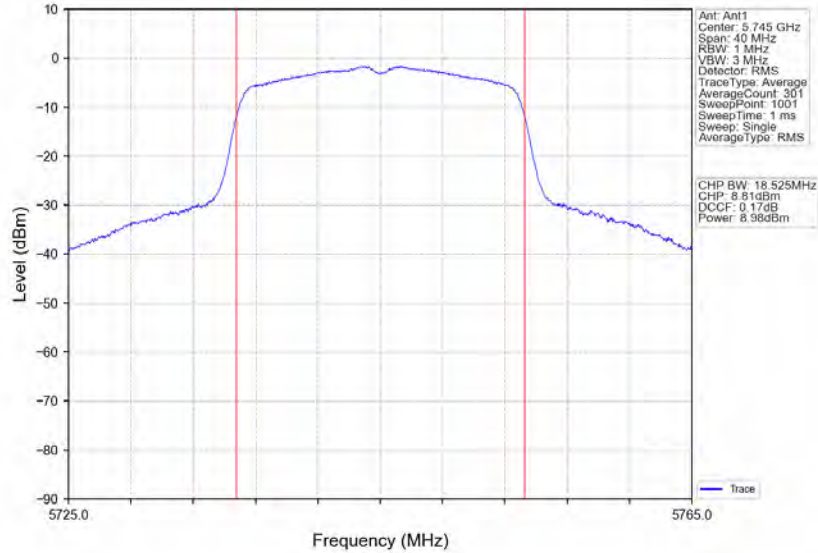
802.11ac(VHT20)_HCH_5240MHz_Ant4_NTNV



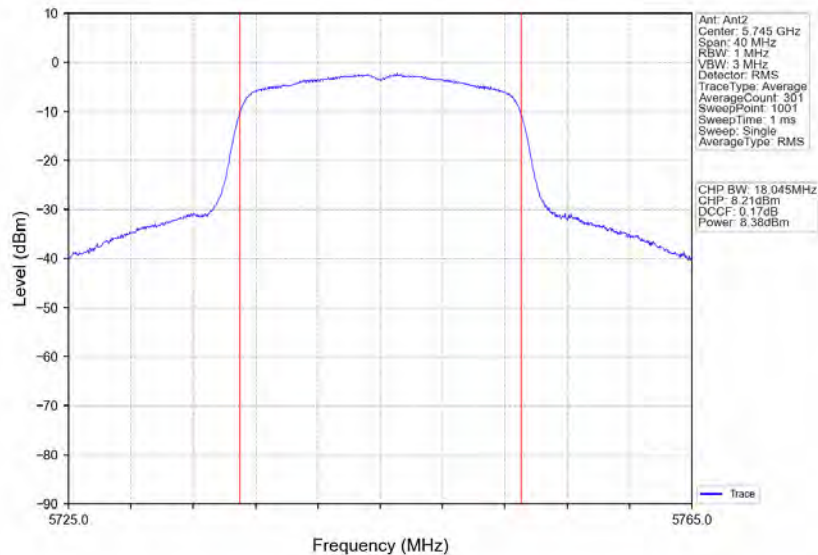
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802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant4_NTNV



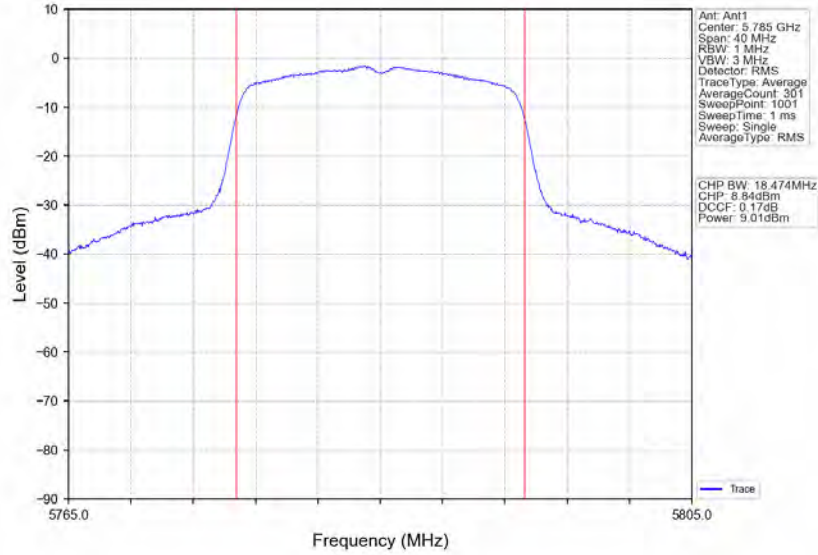
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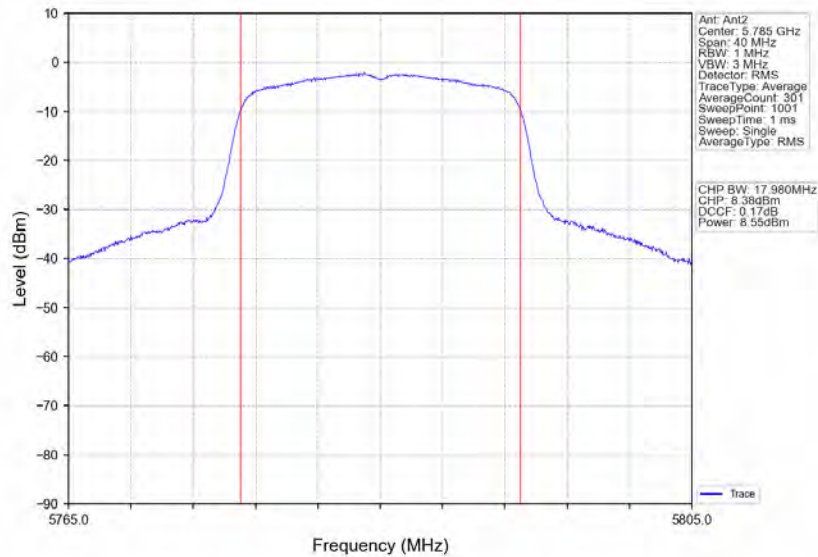
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802.11ac(VHT20)_MCH_5785MHz_Ant3_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant4_NTNV



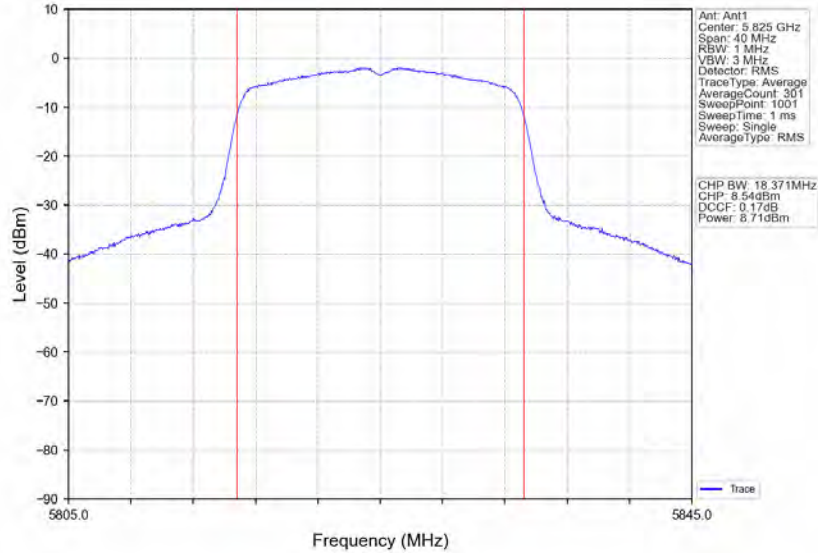
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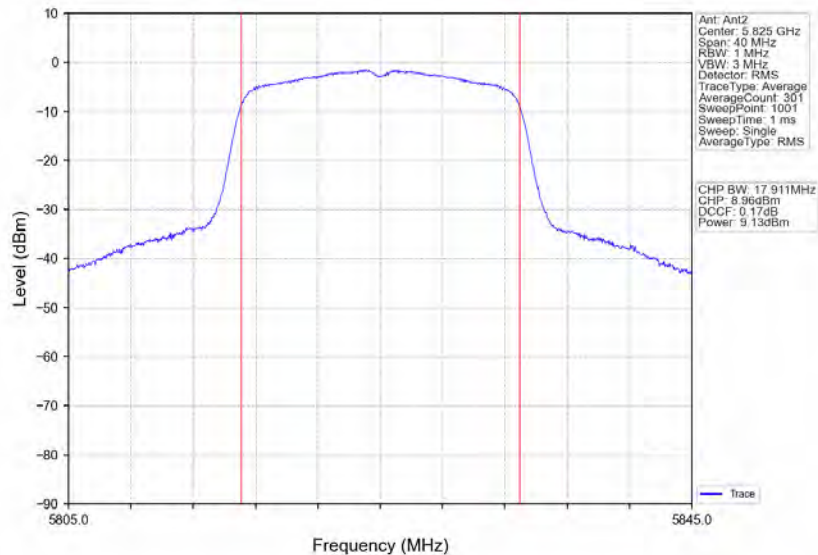
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802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant4_NTNV

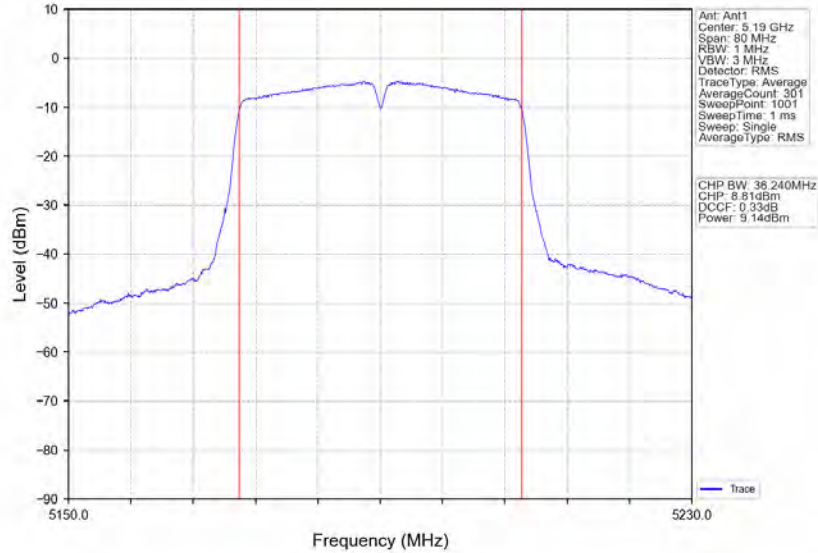


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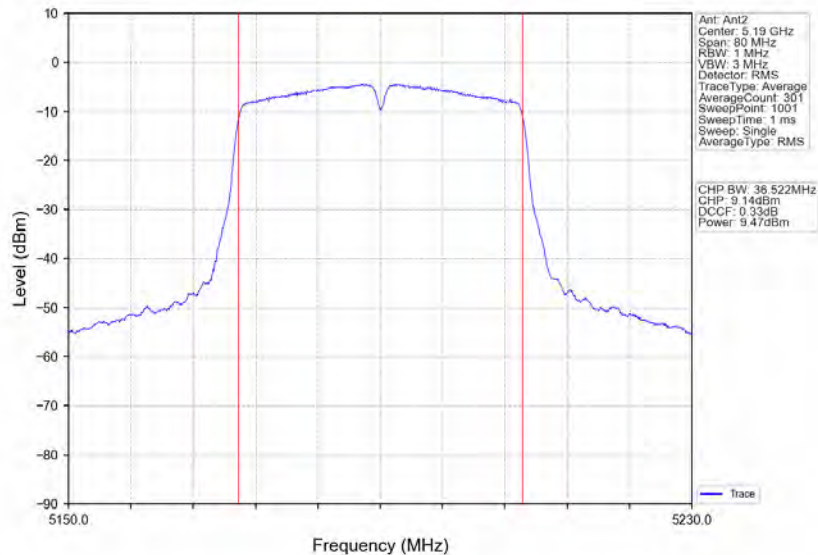
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802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV

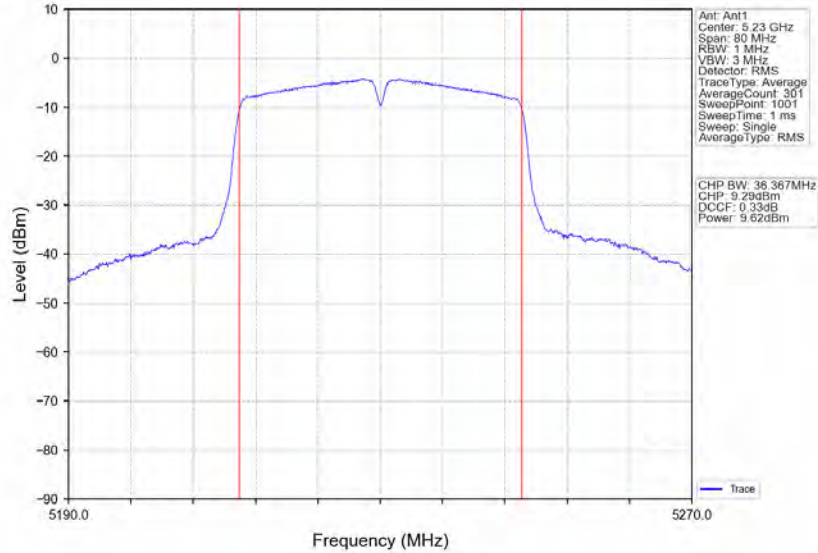


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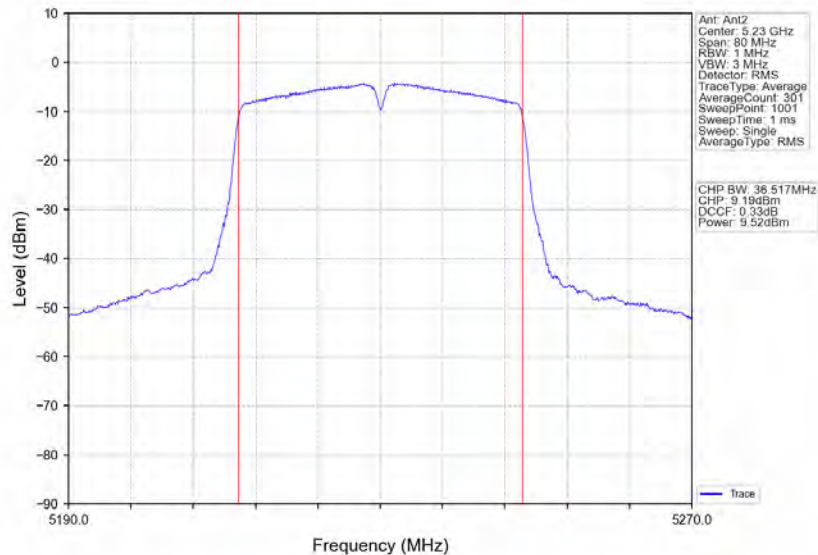
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802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV

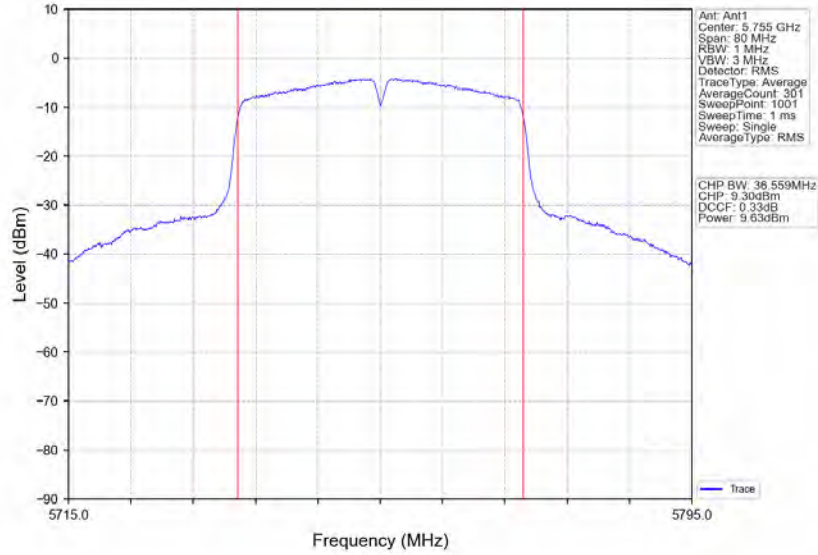


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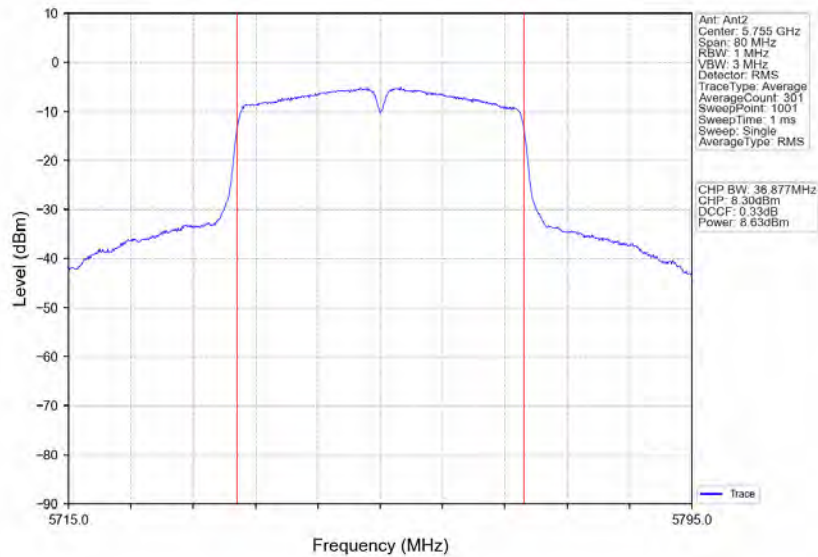
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802.11ac(VHT40)_LCH_5755MHz_Ant3_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant4_NTNV



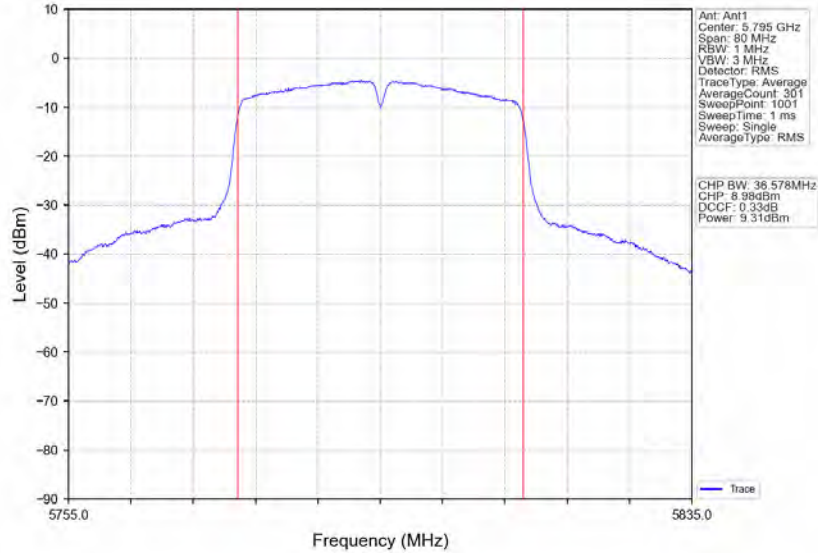
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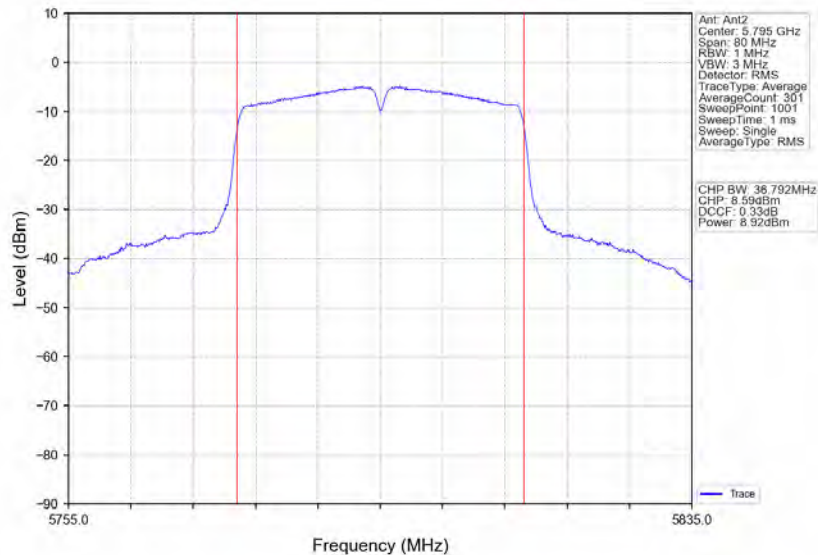
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802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant4_NTNV

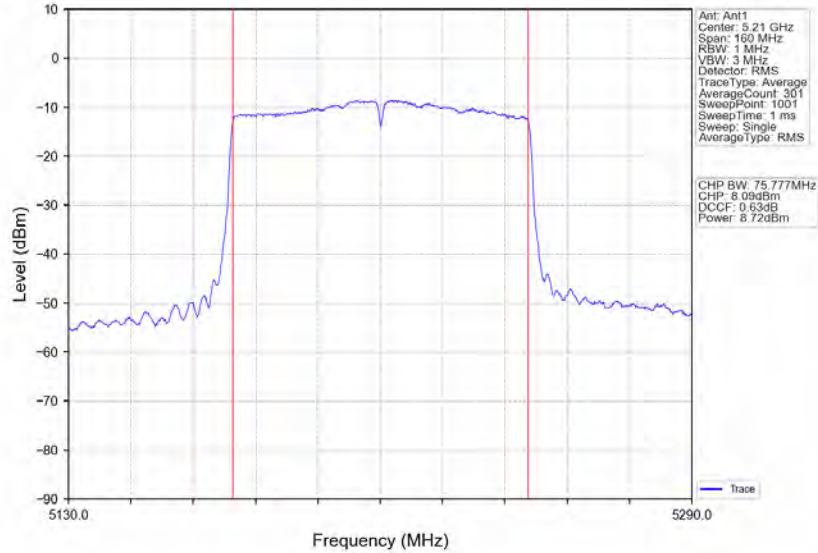


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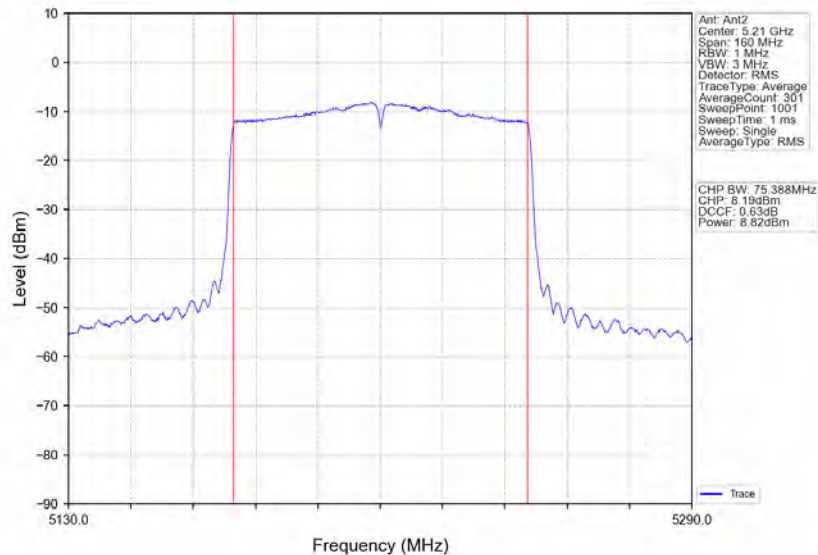
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802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant4_NTNV



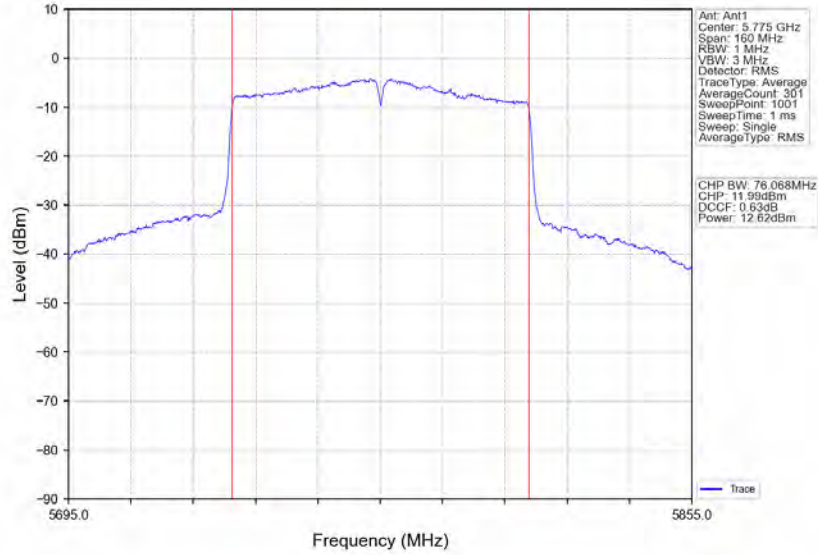
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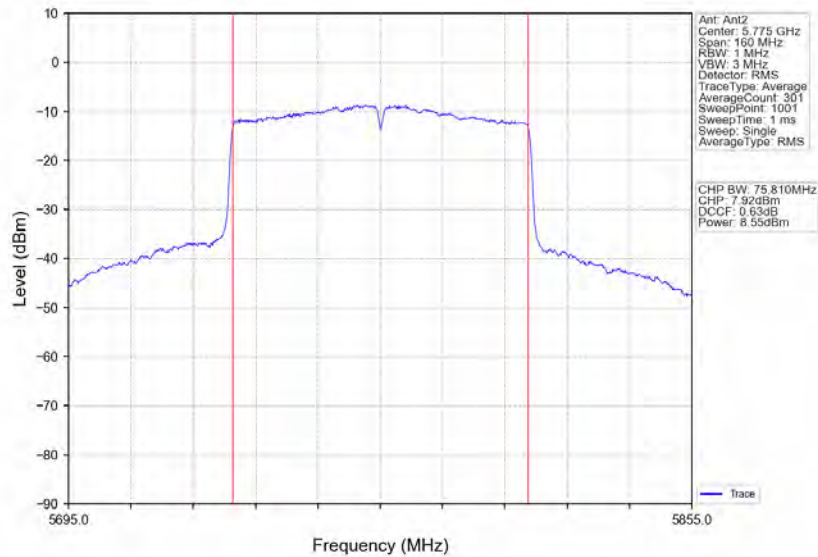
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802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant4_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result for FCC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5180	1.73	1.67	/	<=11	Pass
		5200	1.53	1.98	/	<=11	Pass
		5240	2.15	1.87	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-1.24	-1.16	1.66	<=11	Pass
		5200	-1.34	-0.93	1.80	<=11	Pass
		5240	-0.85	-1.11	1.91	<=11	Pass
802.11n (HT40)	MIMO	5190	-4.13	-3.87	-1.09	<=11	Pass
		5230	-3.68	-3.86	-0.82	<=11	Pass
802.11ac (VHT20)	MIMO	5180	-1.27	-1.24	1.68	<=11	Pass
		5200	-1.27	-1.07	1.72	<=11	Pass
		5240	-0.99	-1.19	1.77	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-4.40	-3.94	-1.28	<=11	Pass
		5230	-3.67	-3.93	-0.87	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-7.72	-7.62	-4.67	<=11	Pass

Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.

Test Result for IC

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			EIRP PSD (dBm/MHz)			Limit	Verdict
			ANT3	ANT4	MIMO	ANT3	ANT4	MIMO		
802.11a	SISO	5180	1.73	1.67	/	4.23	3.29	/	<=10	Pass
		5200	1.53	1.98	/	4.03	3.60	/	<=10	Pass
		5240	2.15	1.87	/	4.65	3.49	/	<=10	Pass
802.11n (HT20)	MIMO	5180	-1.24	-1.16	1.66	1.26	0.46	3.89	<=10	Pass
		5200	-1.34	-0.93	1.80	1.16	0.69	3.94	<=10	Pass
		5240	-0.85	-1.11	1.91	1.65	0.51	4.13	<=10	Pass
802.11n (HT40)	MIMO	5190	-4.13	-3.87	-1.09	-1.63	-2.25	1.08	<=10	Pass
		5230	-3.68	-3.86	-0.82	-1.18	-2.24	1.33	<=10	Pass
802.11ac (VHT20)	MIMO	5180	-1.27	-1.24	1.68	1.23	0.38	3.84	<=10	Pass
		5200	-1.27	-1.07	1.72	1.23	0.55	3.91	<=10	Pass
		5240	-0.99	-1.19	1.77	1.51	0.43	4.01	<=10	Pass
802.11ac (VHT40)	MIMO	5190	-4.40	-3.94	-1.28	-1.90	-2.32	0.91	<=10	Pass
		5230	-3.67	-3.93	-0.87	-1.17	-2.31	1.31	<=10	Pass
802.11ac (VHT80)	MIMO	5210	-7.72	-7.62	-4.67	-5.22	-6.00	-2.58	<=10	Pass

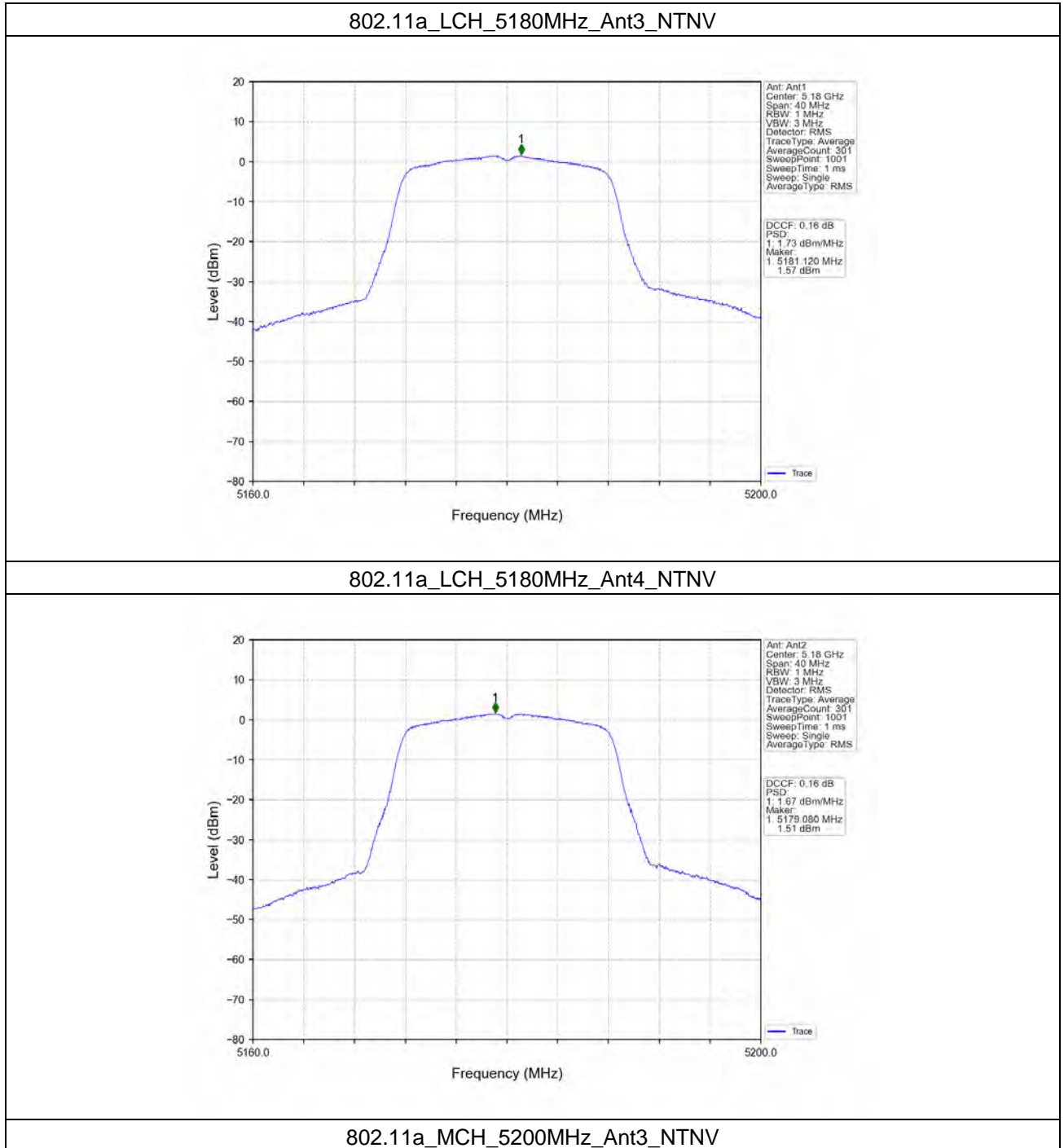
Note1: For U-NII-1 Antenna Gain: Ant3: 2.5dBi; Ant4: 1.62dBi; Directional gain:5.09dBi.



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4.1.2 Test Graph

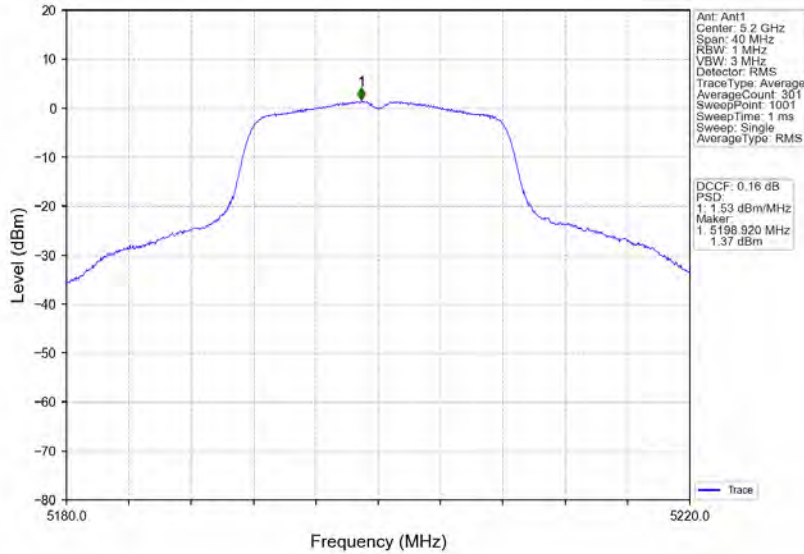


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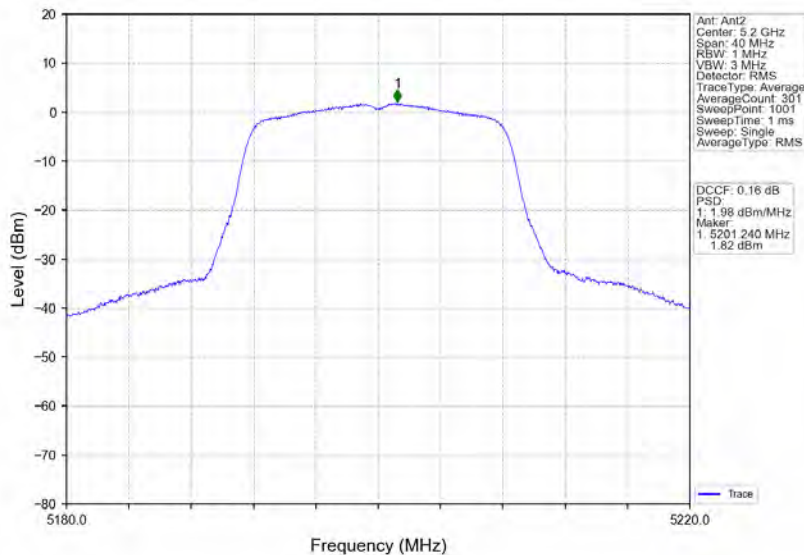
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802.11a_MCH_5200MHz_Ant4_NTNV



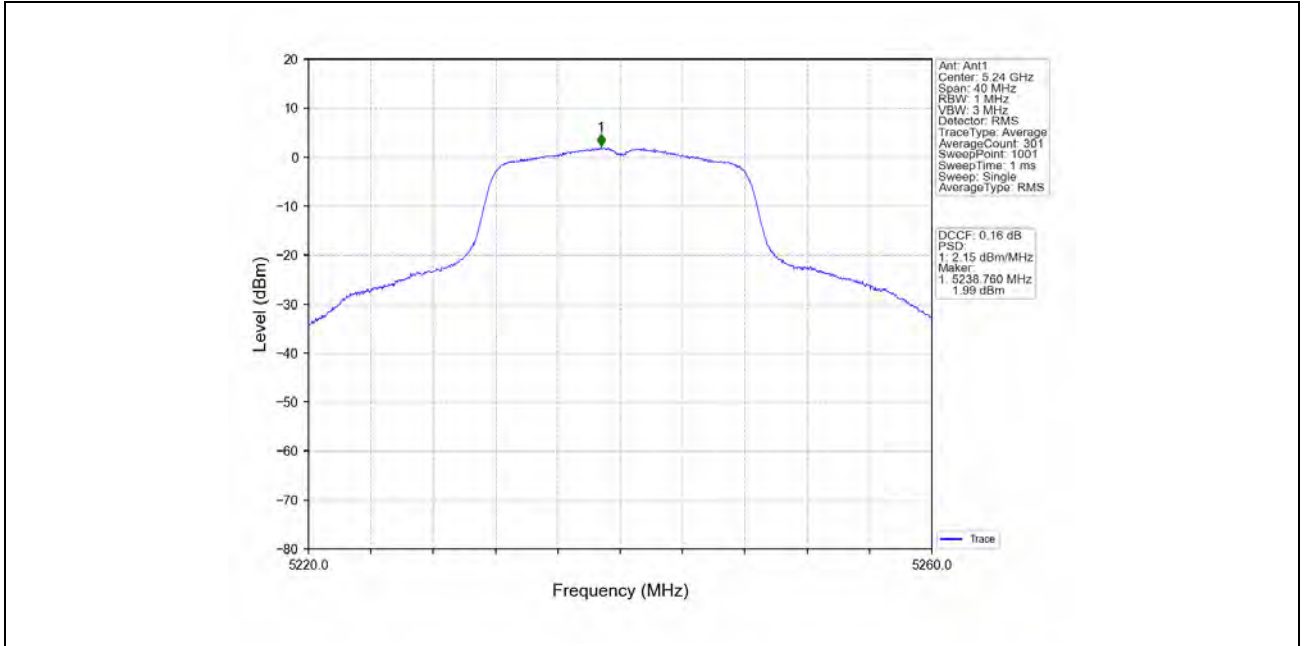
802.11a_HCH_5240MHz_Ant3_NTNV



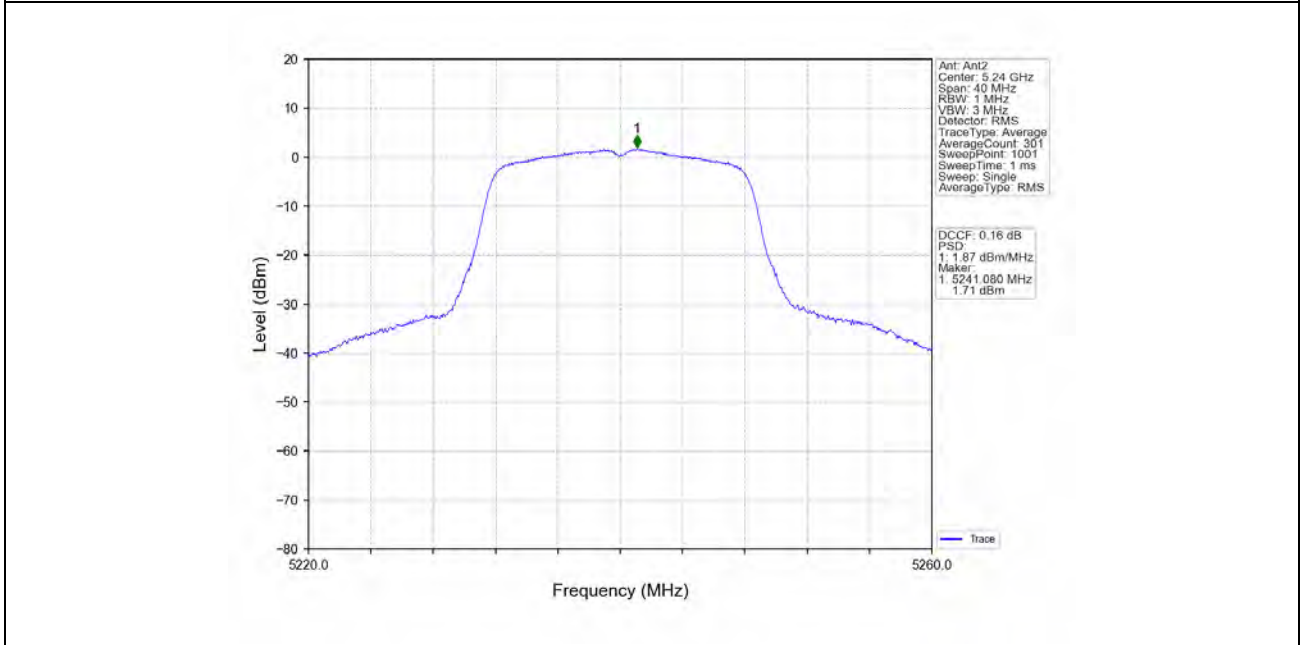
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802.11a_HCH_5240MHz_Ant4_NTNV

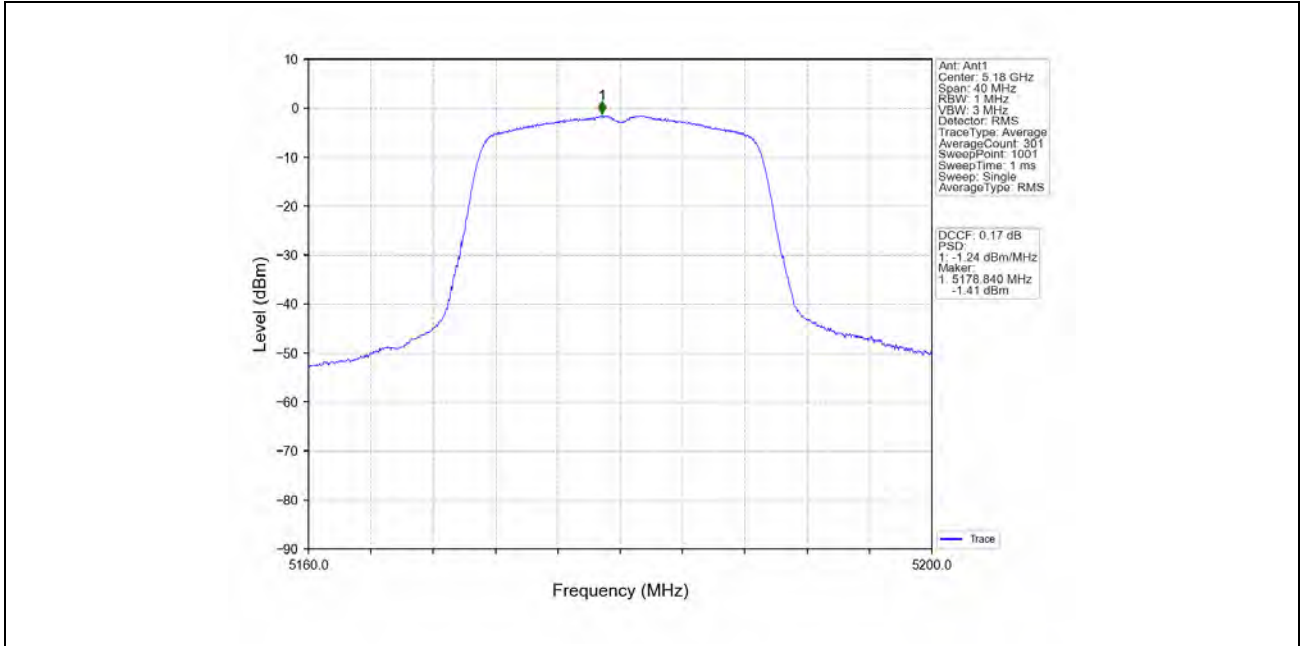


802.11n(HT20)_LCH_5180MHz_Ant3_NTNV

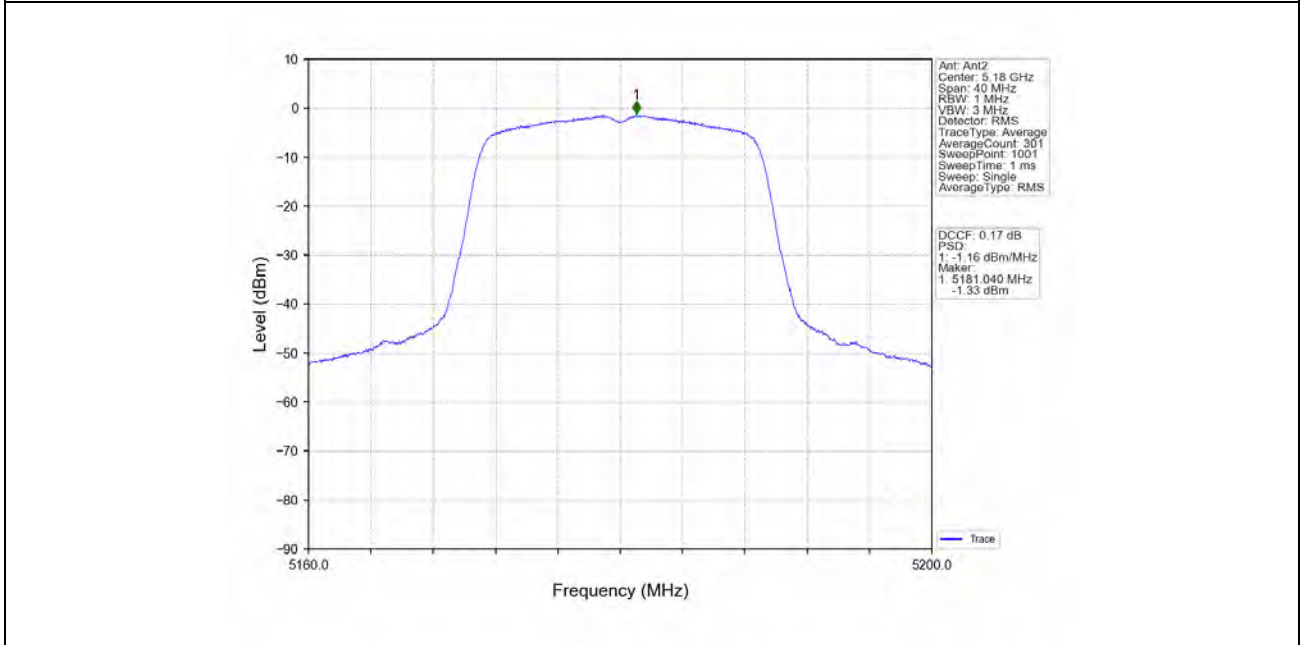


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802.11n(HT20)_LCH_5180MHz_Ant4_NTNV



802.11n(HT20)_LCH_5180MHz_MIMO_NTNV

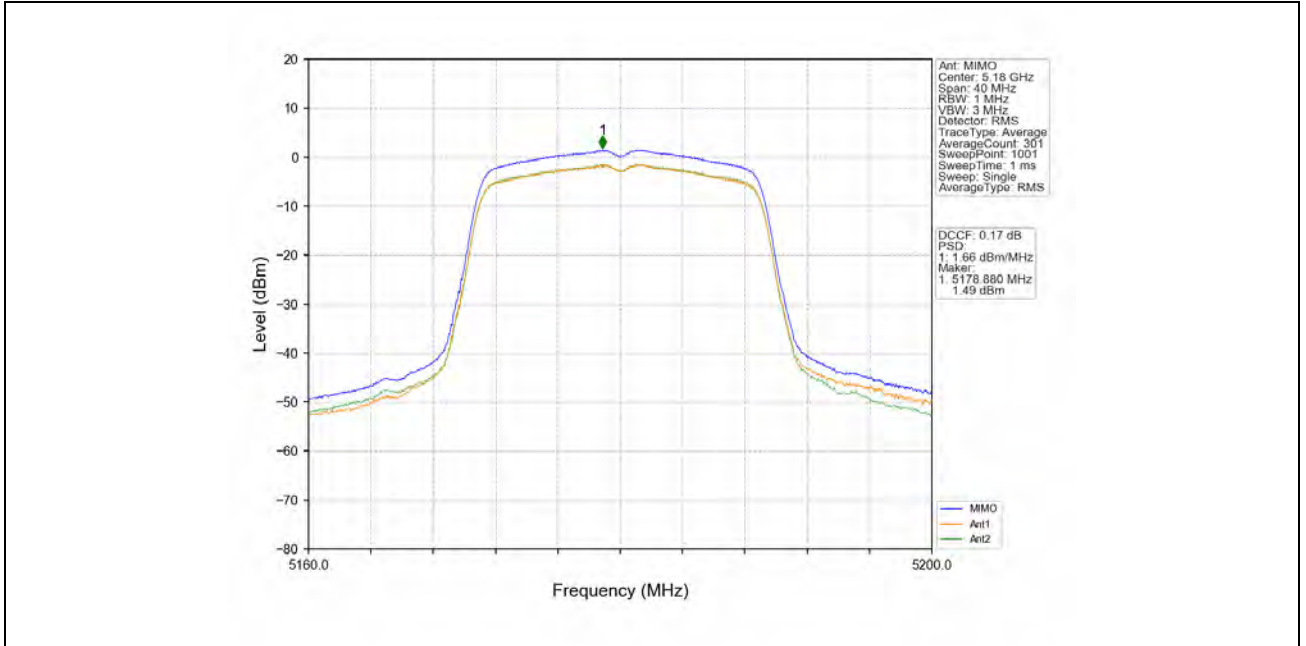


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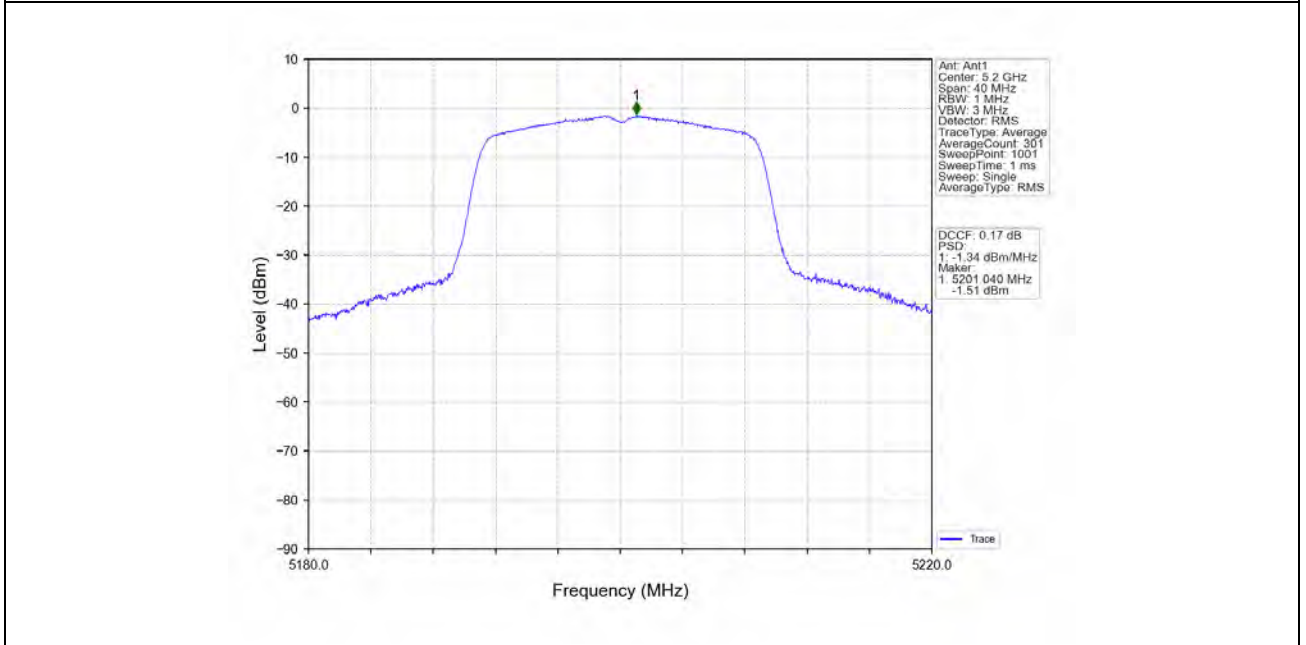
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802.11n(HT20)_MCH_5200MHz_Ant3_NTNV

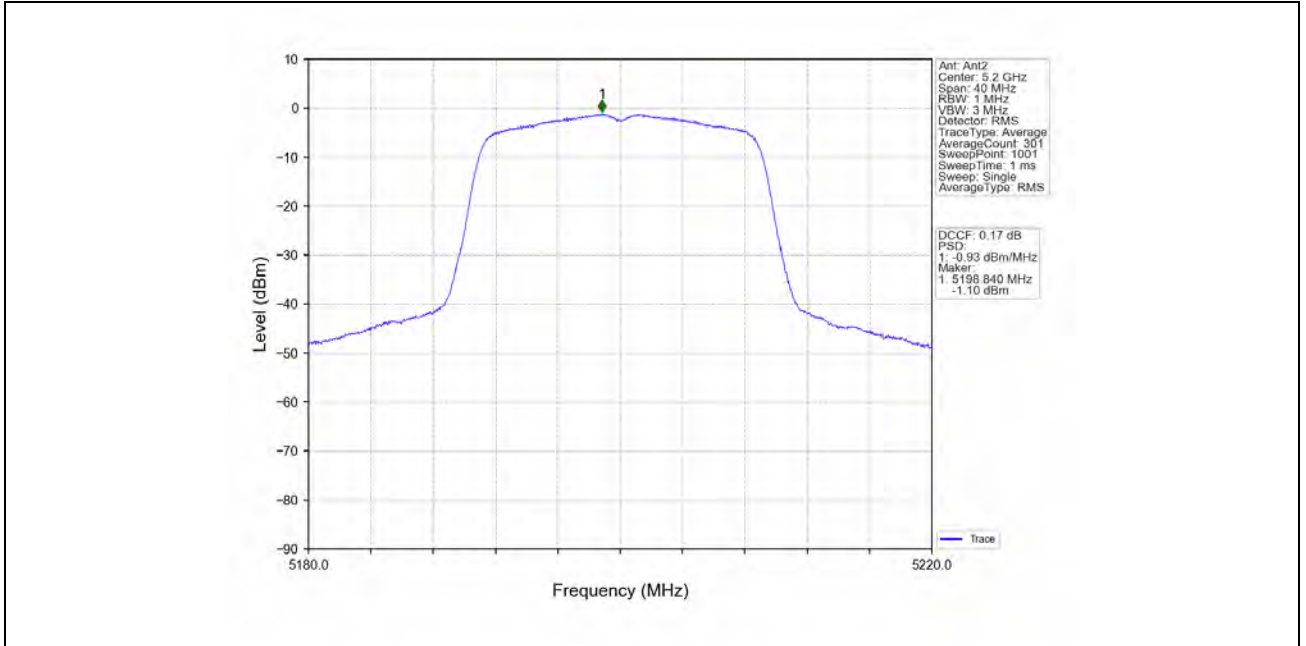


802.11n(HT20)_MCH_5200MHz_Ant4_NTNV

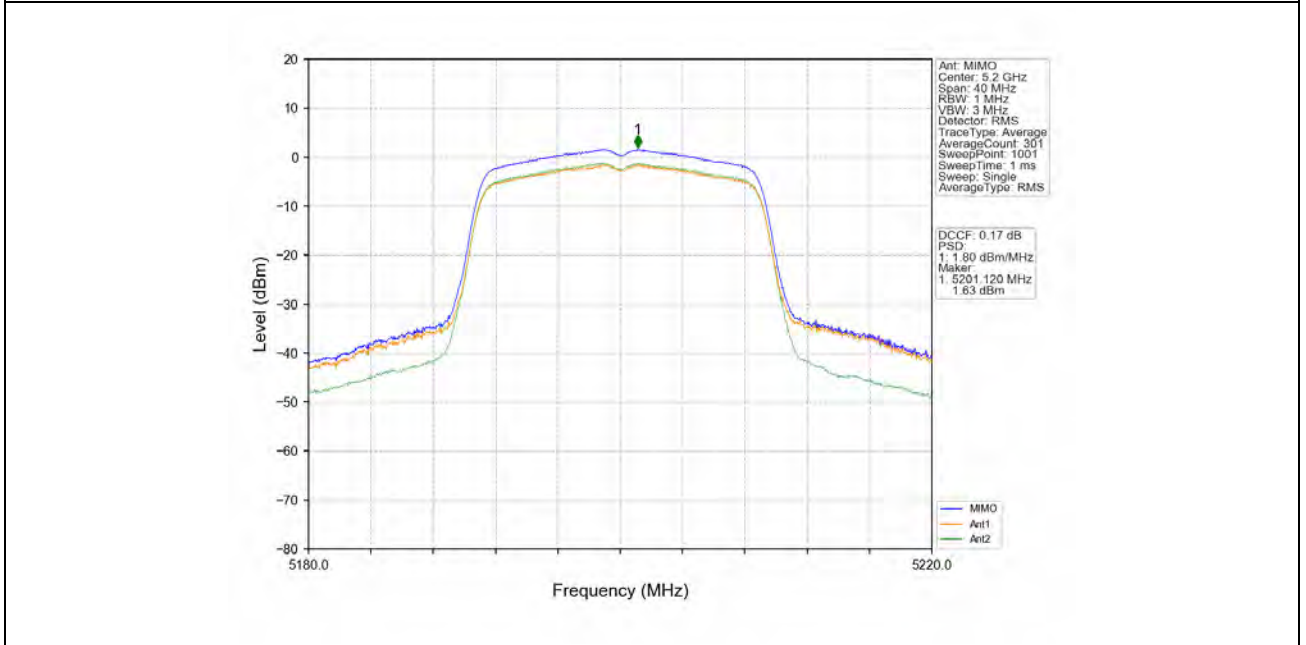


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802.11n(HT20)_MCH_5200MHz_MIMO_NTNV

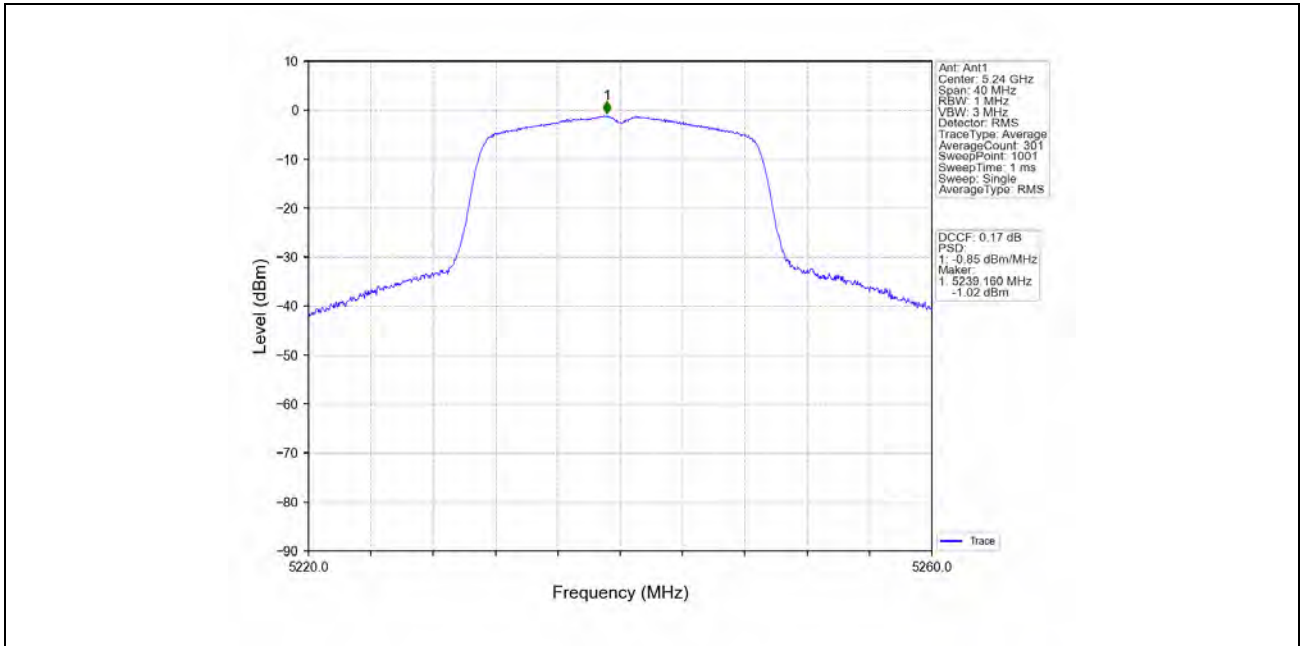


802.11n(HT20)_HCH_5240MHz_Ant3_NTNV

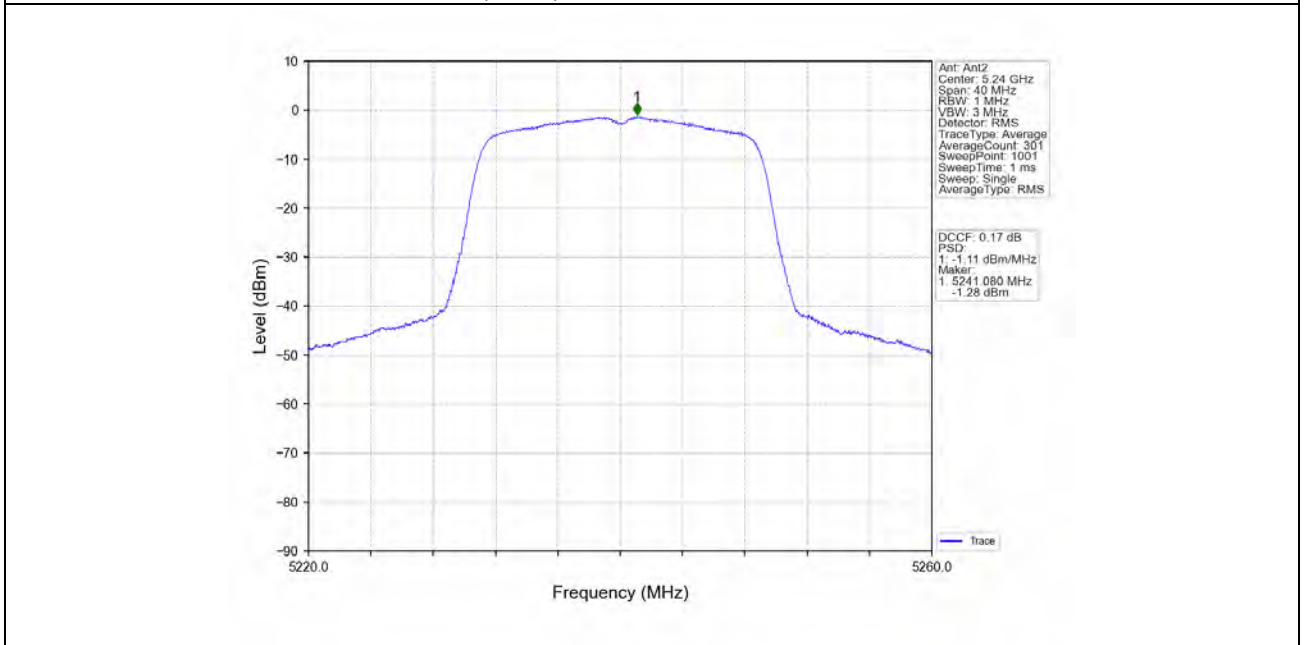


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802.11n(HT20)_HCH_5240MHz_Ant4_NTNV

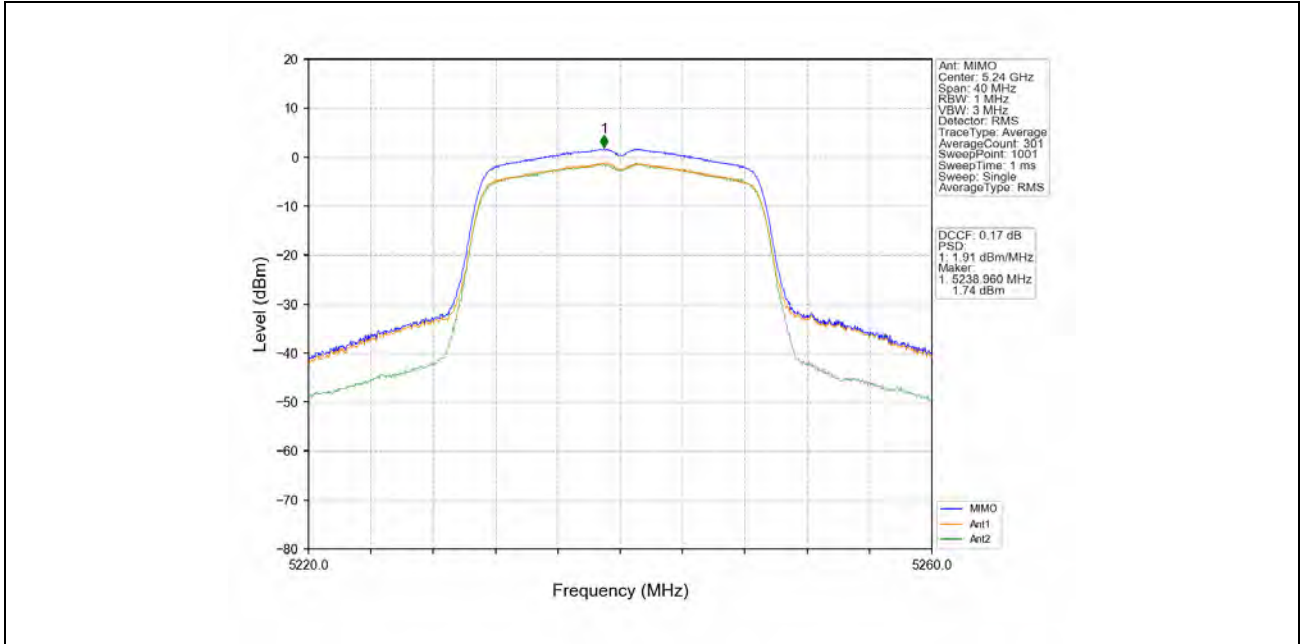


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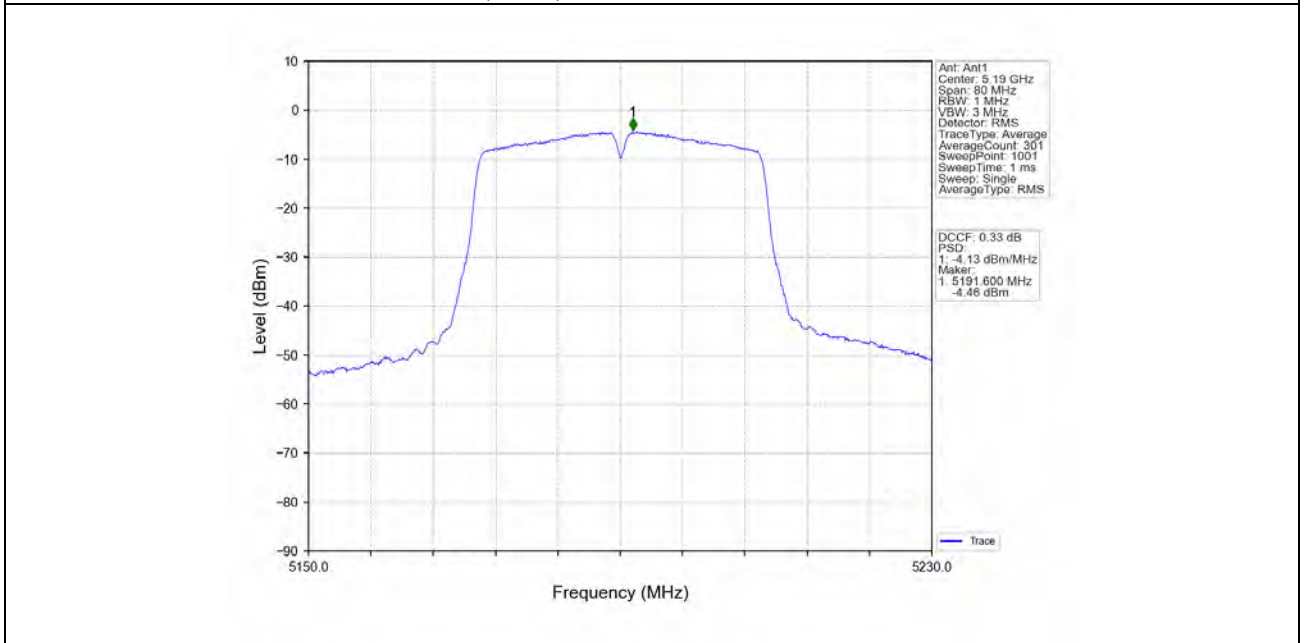


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802.11n(HT40)_LCH_5190MHz_Ant3_NTNV

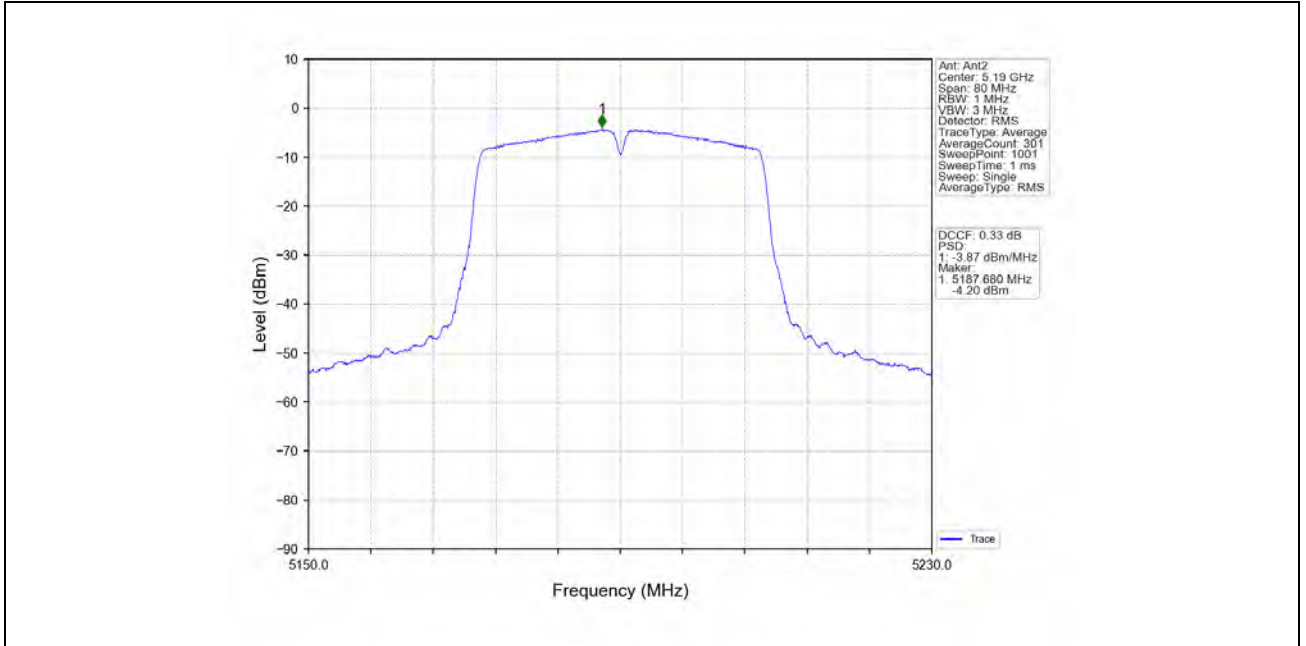


802.11n(HT40)_LCH_5190MHz_Ant4_NTNV

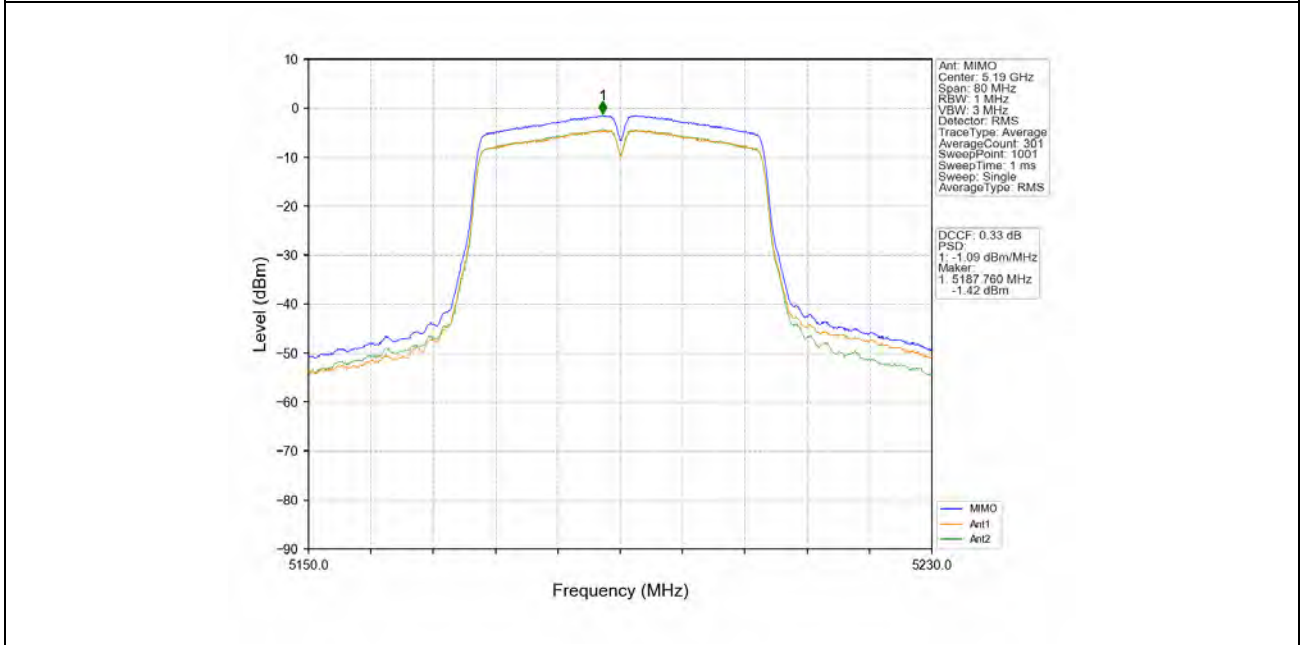


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802.11n(HT40)_LCH_5190MHz_MIMO_NTNV

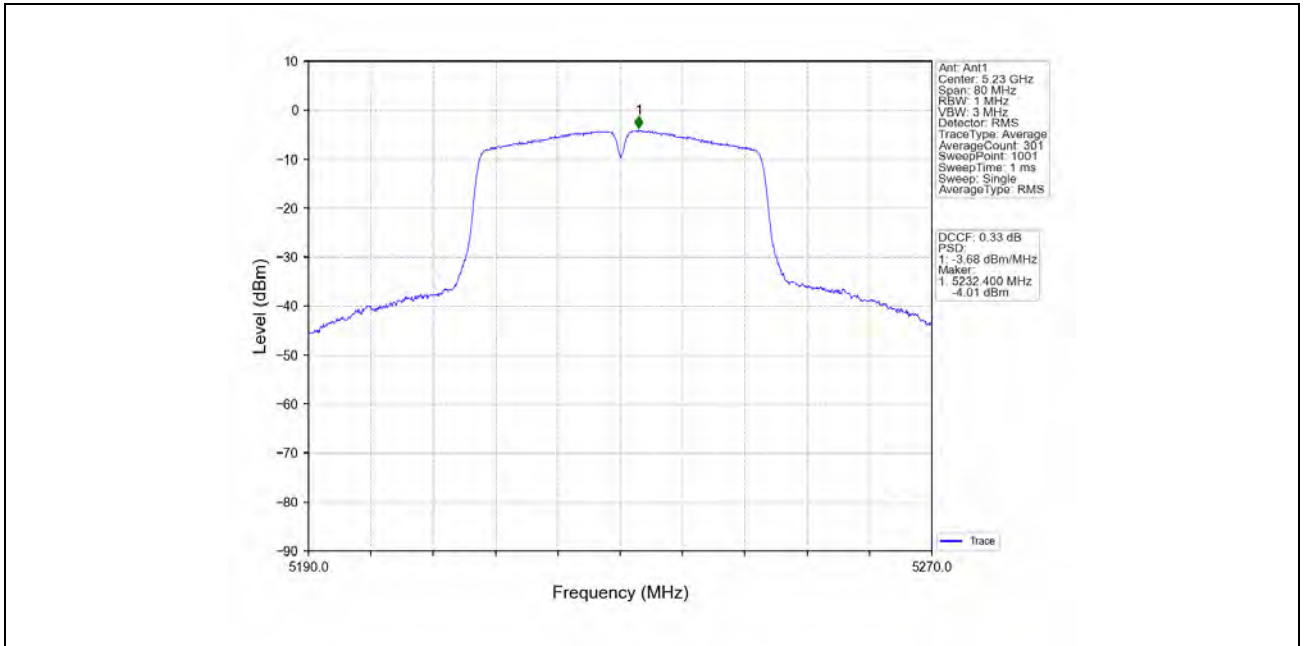


802.11n(HT40)_HCH_5230MHz_Ant3_NTNV

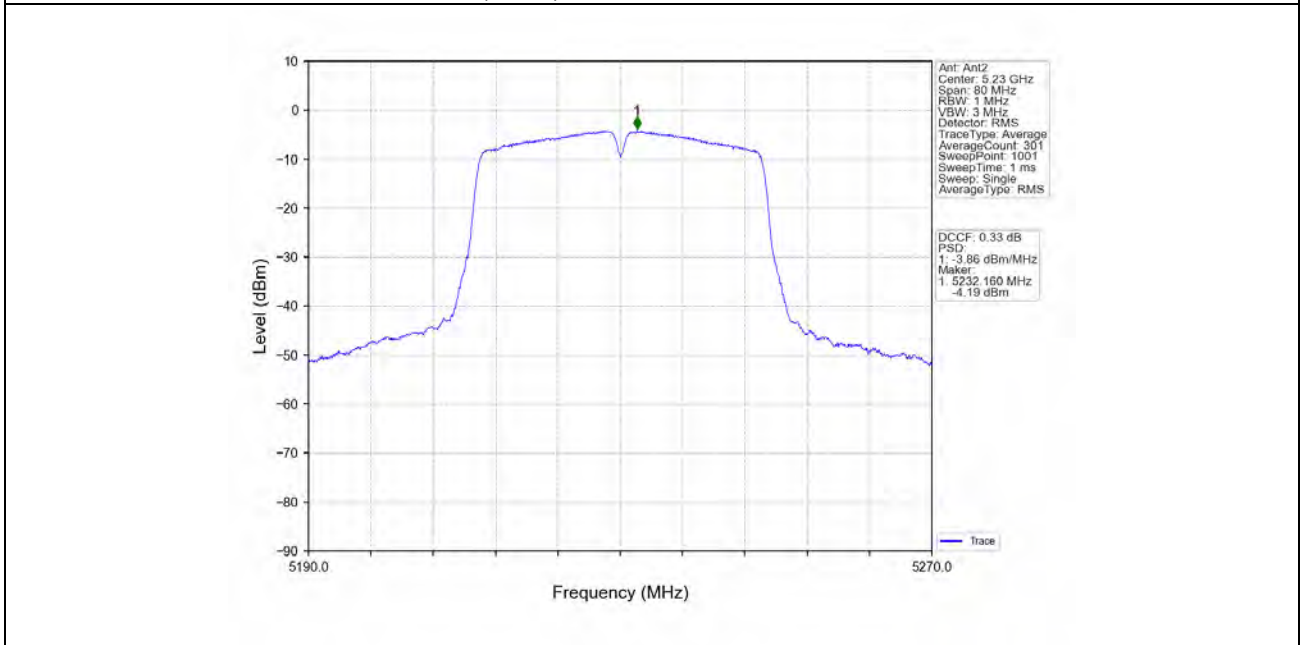


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802.11n(HT40)_HCH_5230MHz_Ant4_NTNV

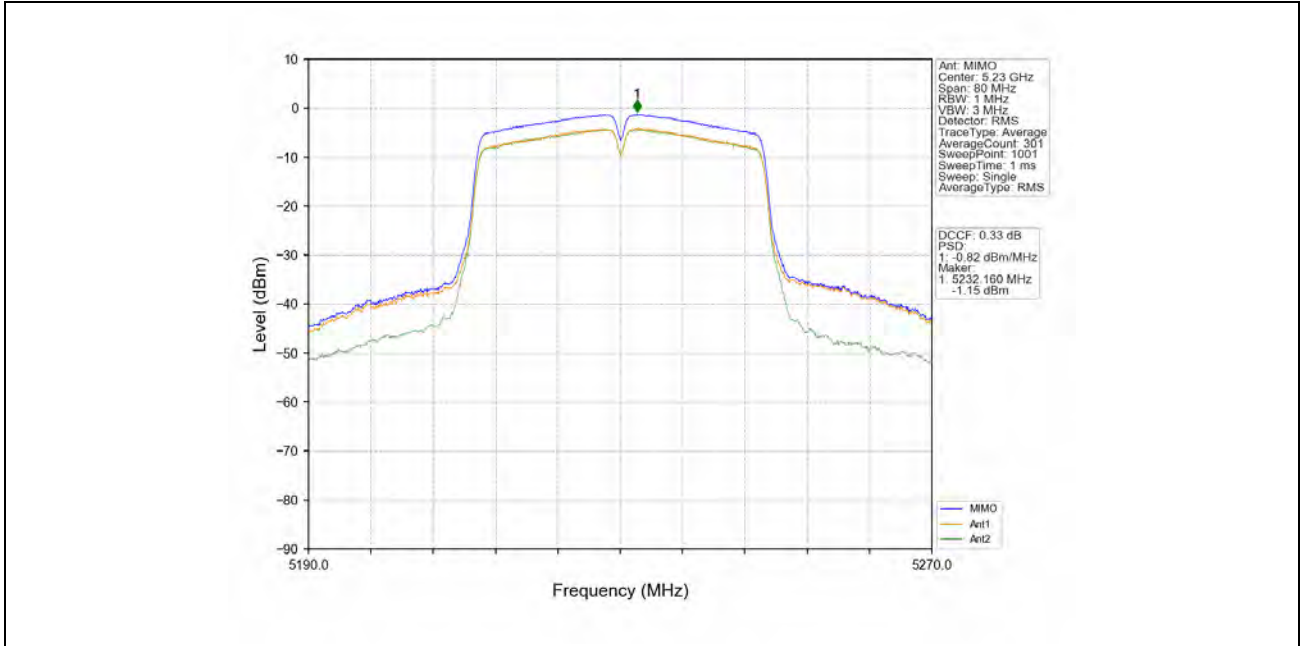


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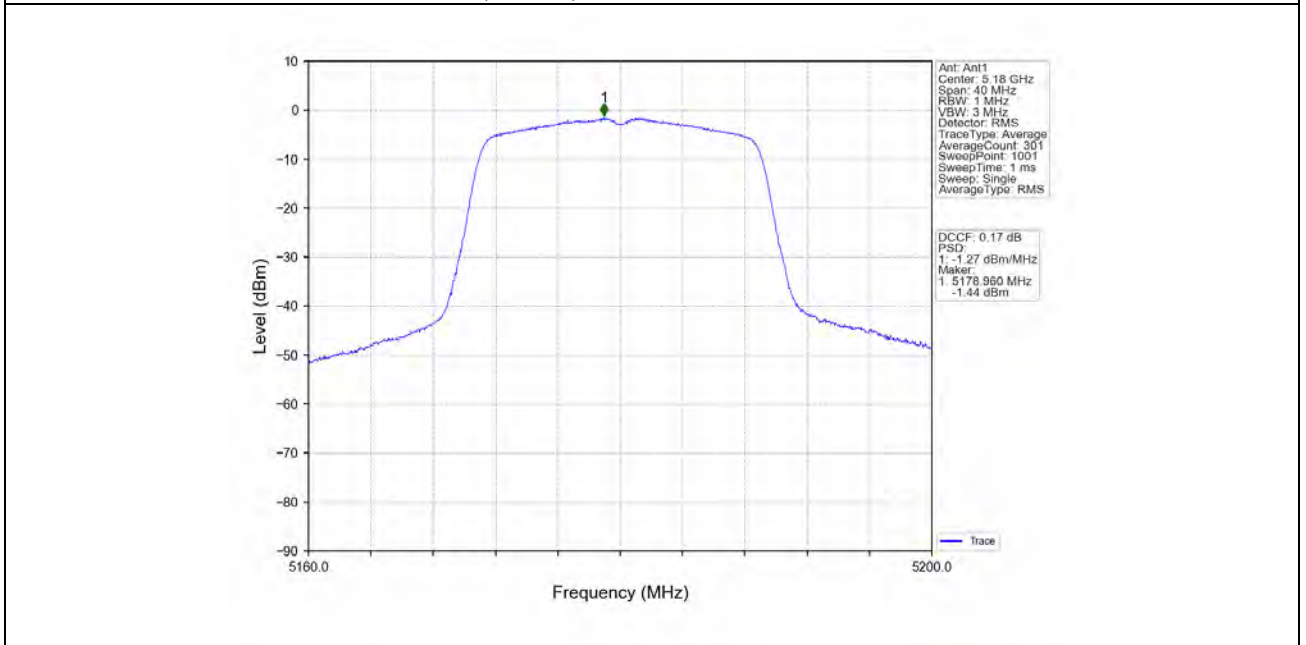


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802.11ac(VHT20)_LCH_5180MHz_Ant3_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant4_NTNV

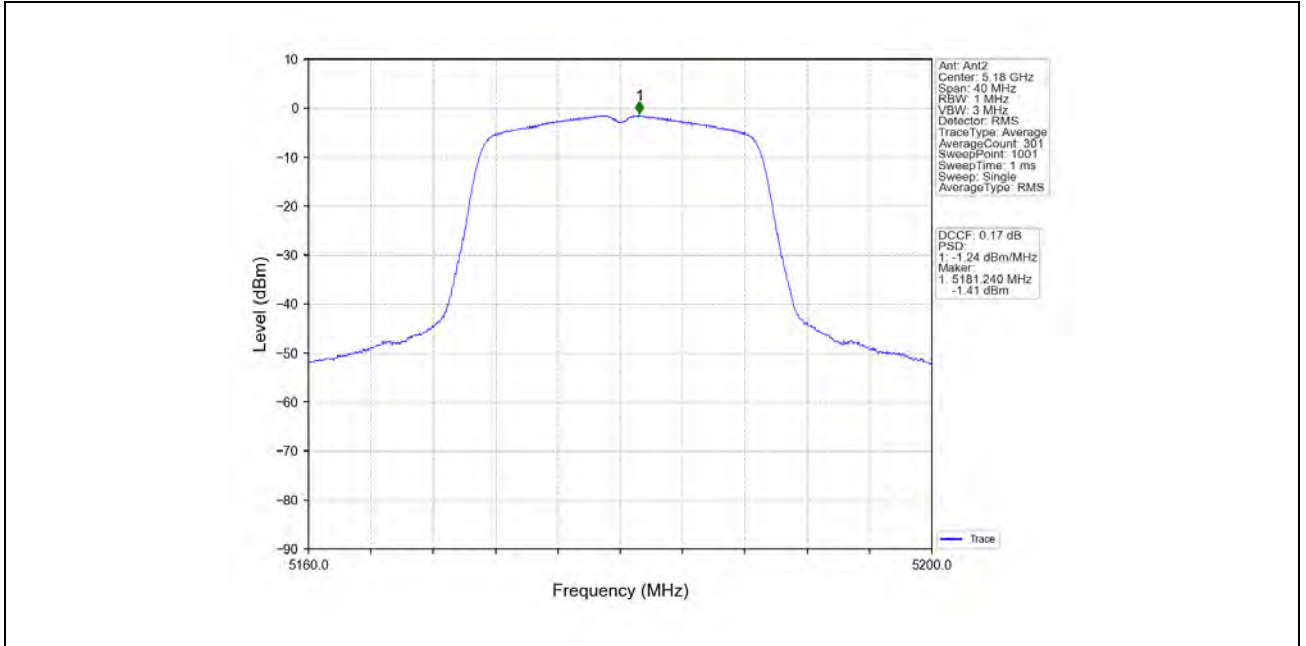


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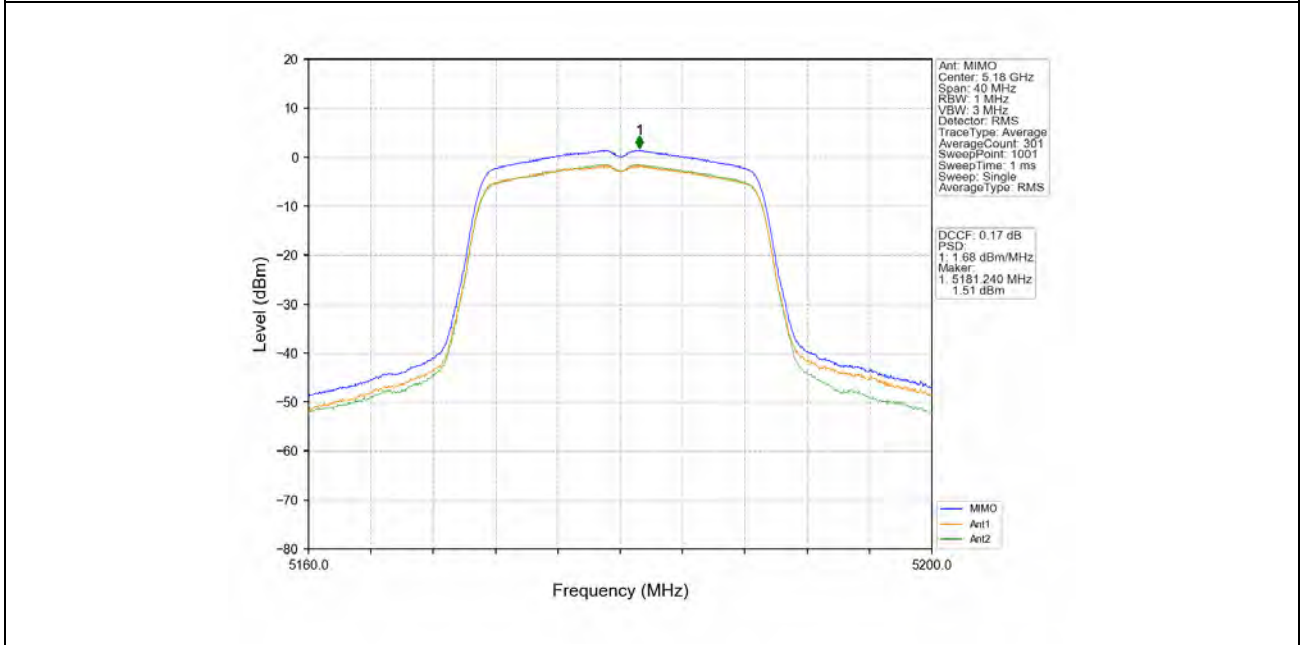
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802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV

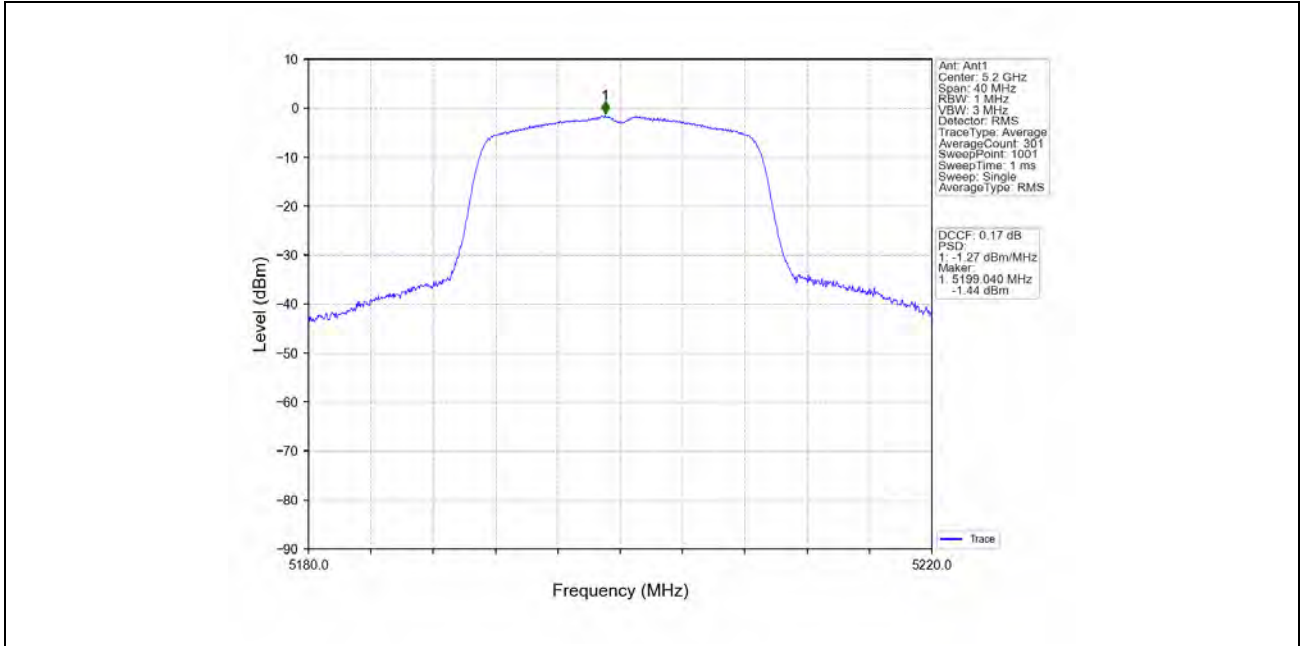


802.11ac(VHT20)_MCH_5200MHz_Ant3_NTNV

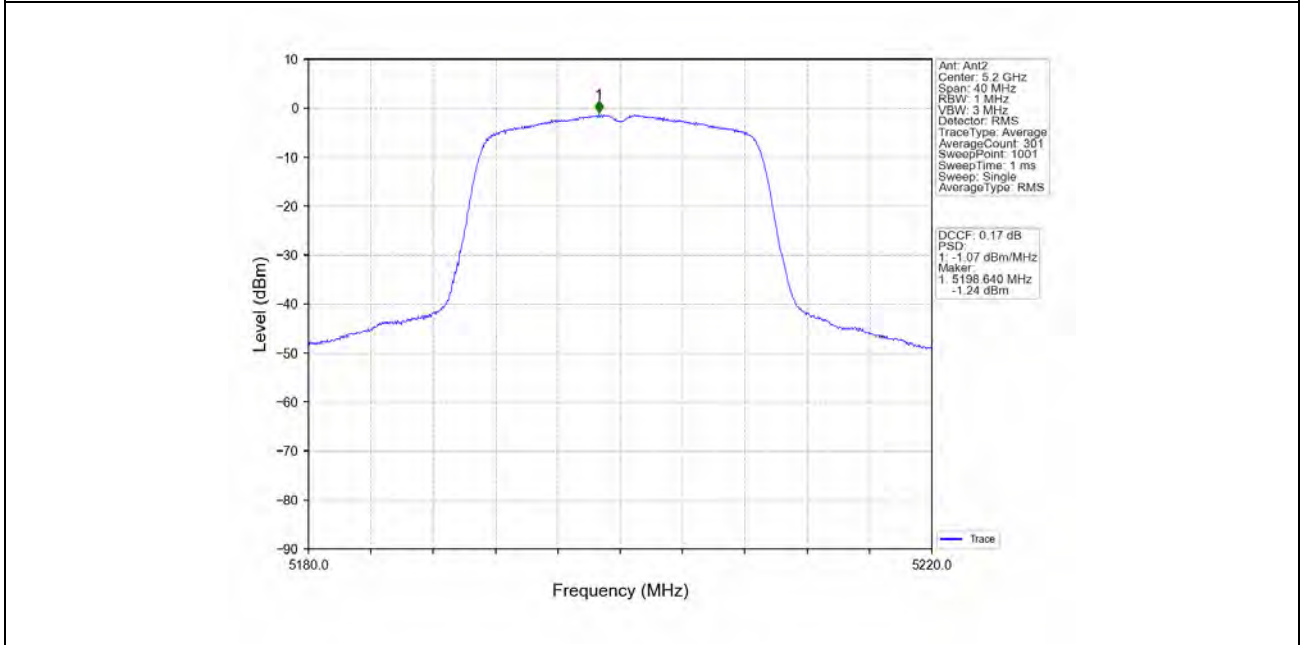


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802.11ac(VHT20)_MCH_5200MHz_Ant4_NTNV



802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV

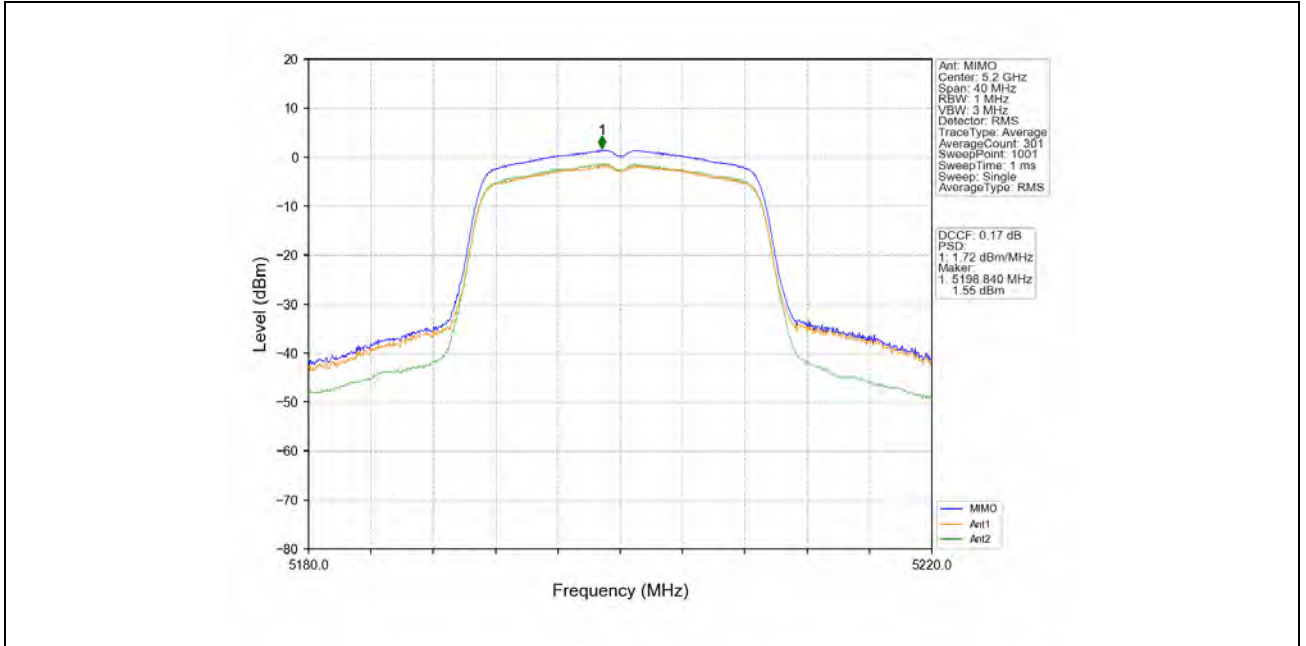


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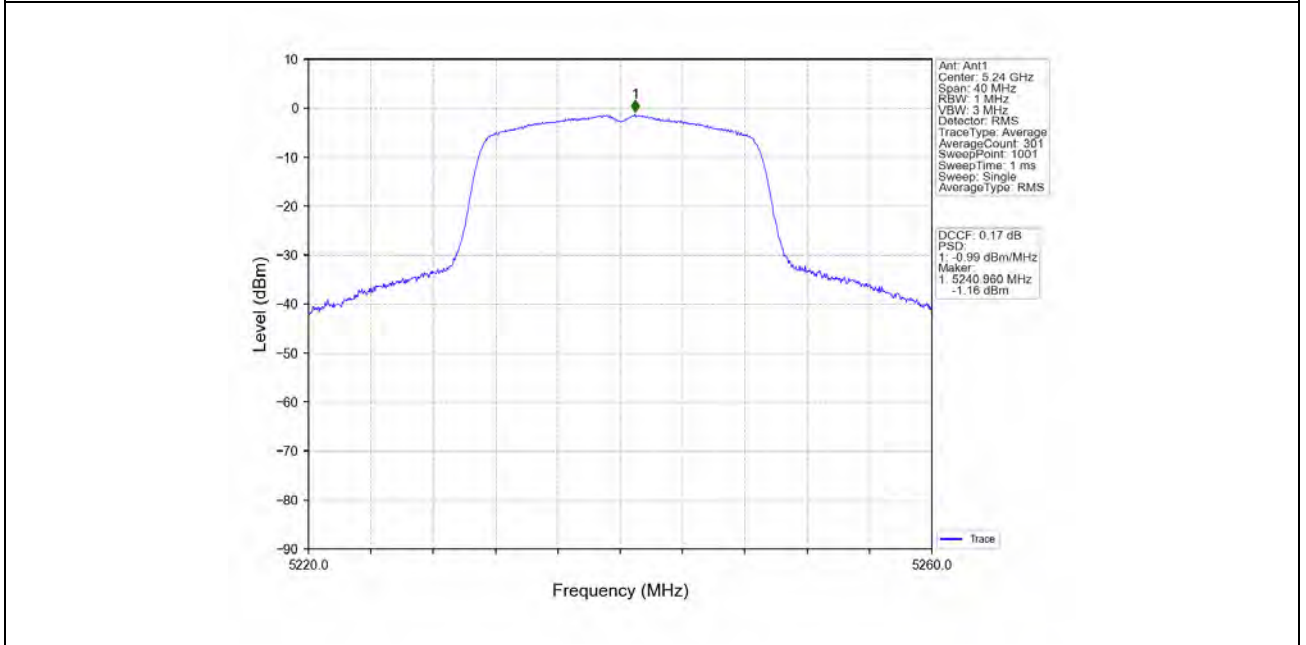
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802.11ac(VHT20)_HCH_5240MHz_Ant3_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant4_NTNV

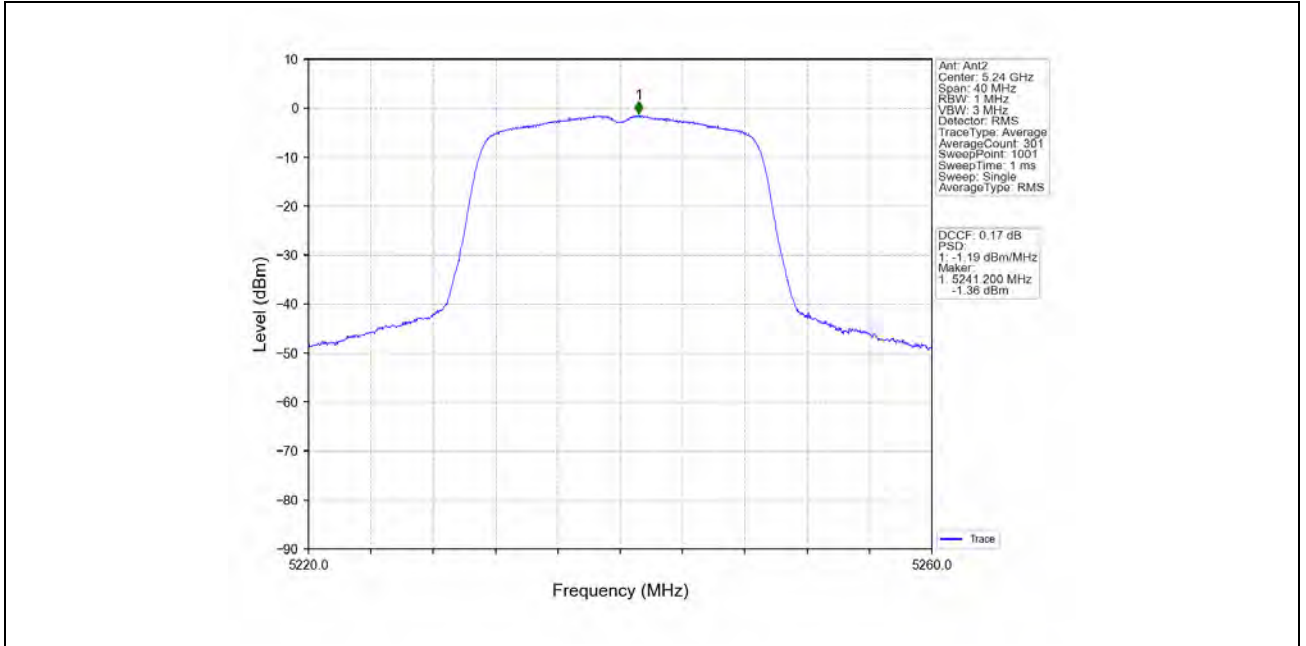


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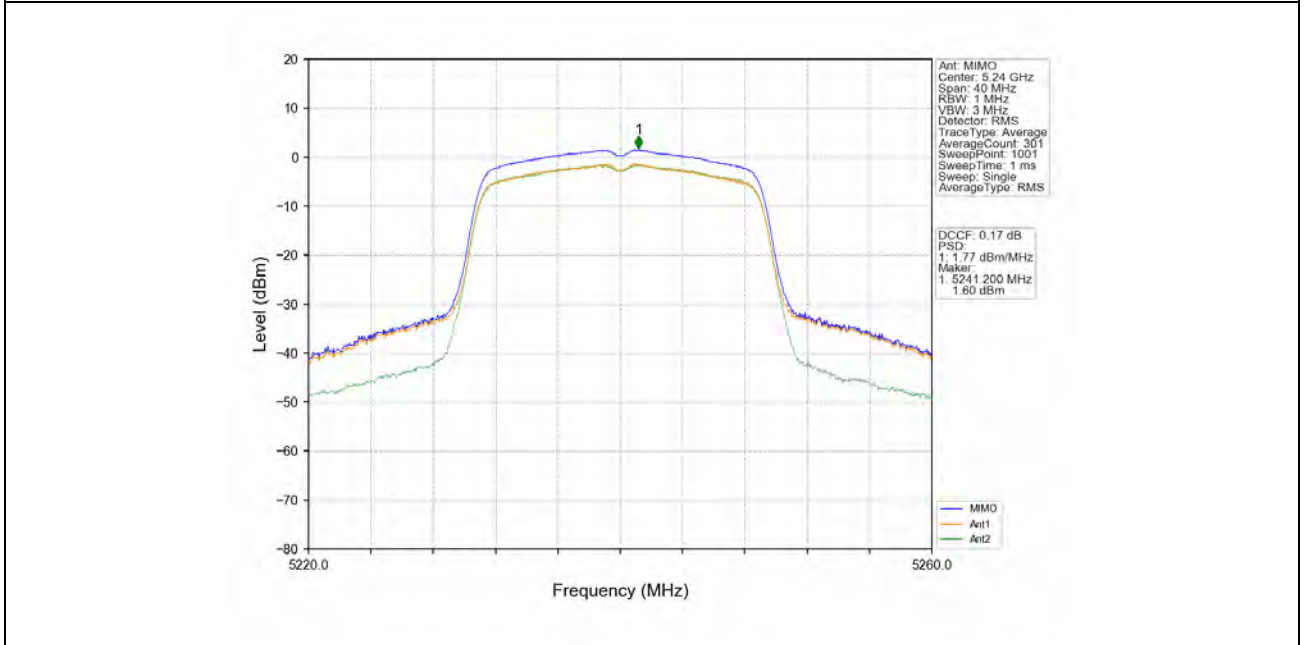
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802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV

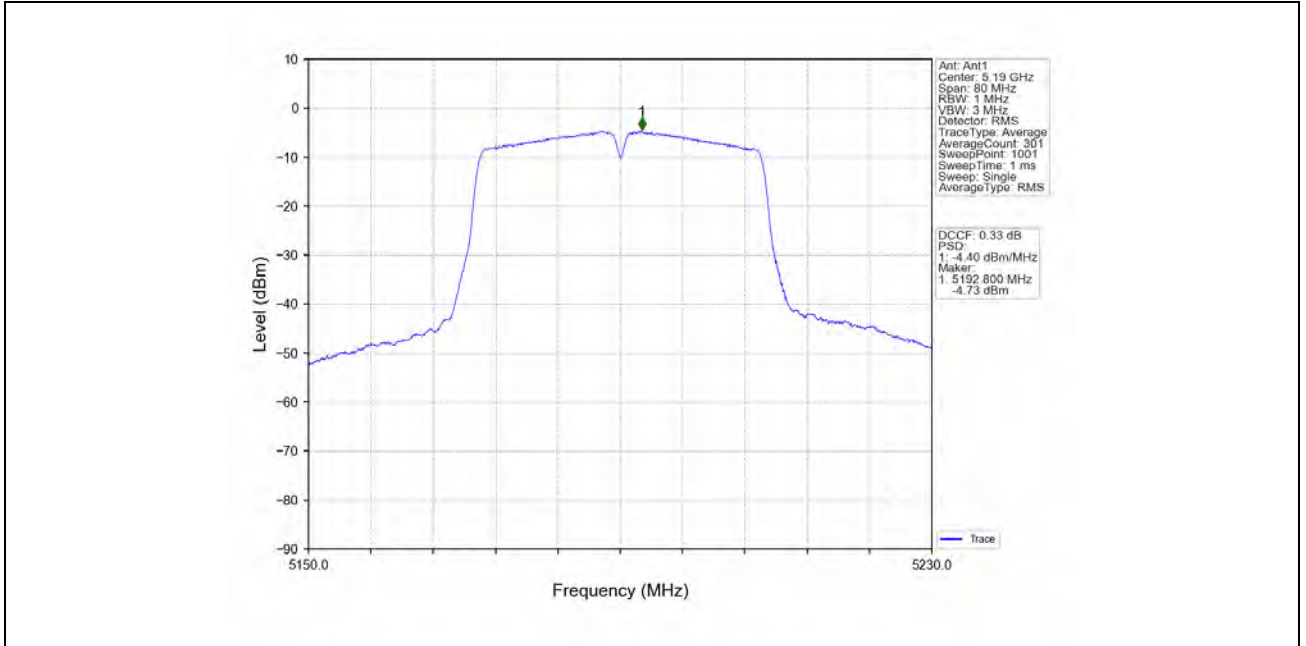


802.11ac(VHT40)_LCH_5190MHz_Ant3_NTNV

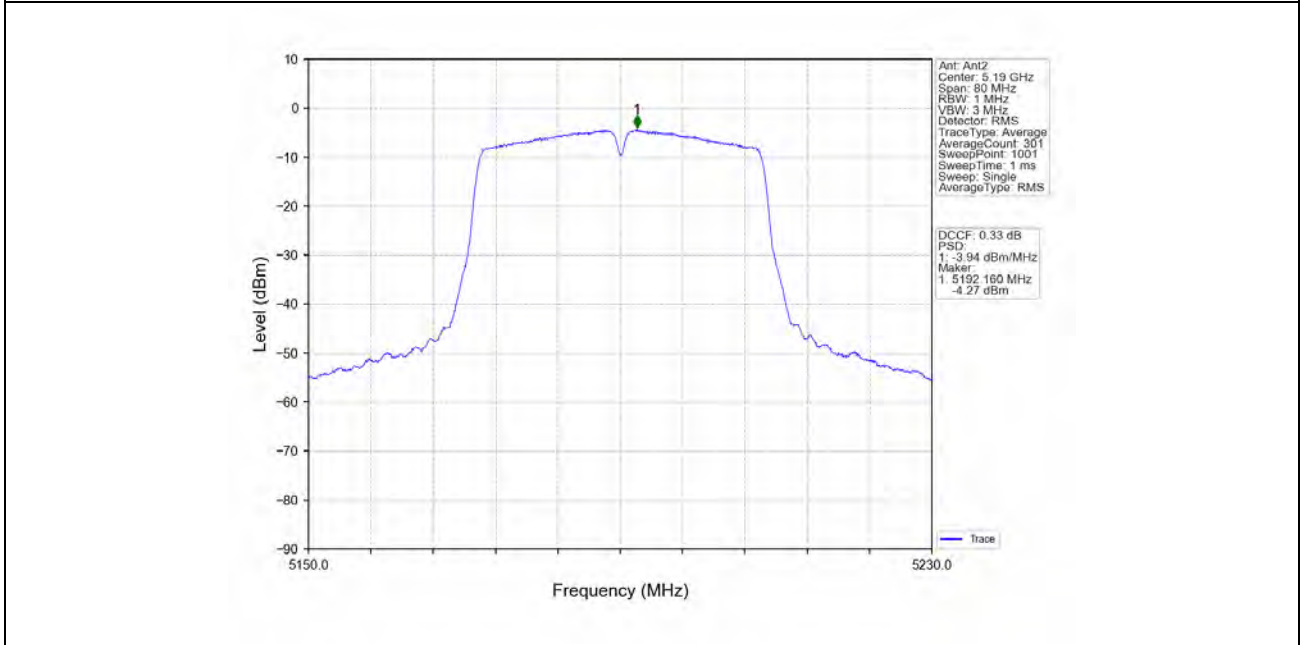


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802.11ac(VHT40)_LCH_5190MHz_Ant4_NTNV

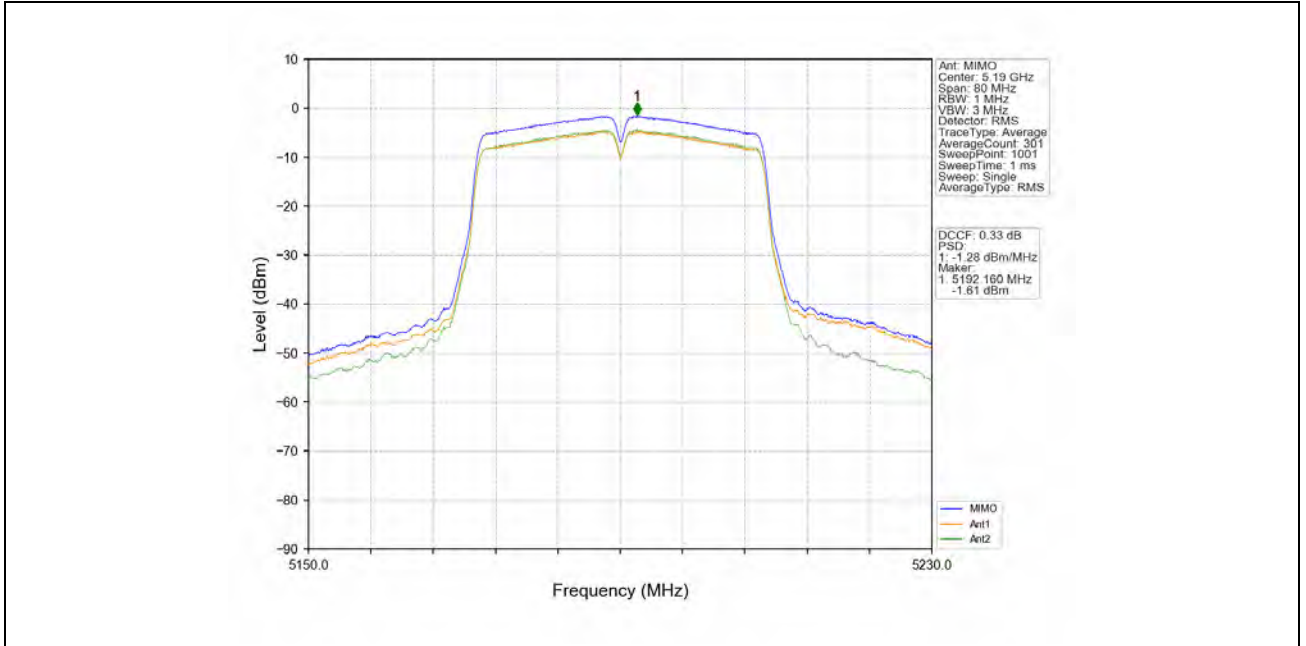


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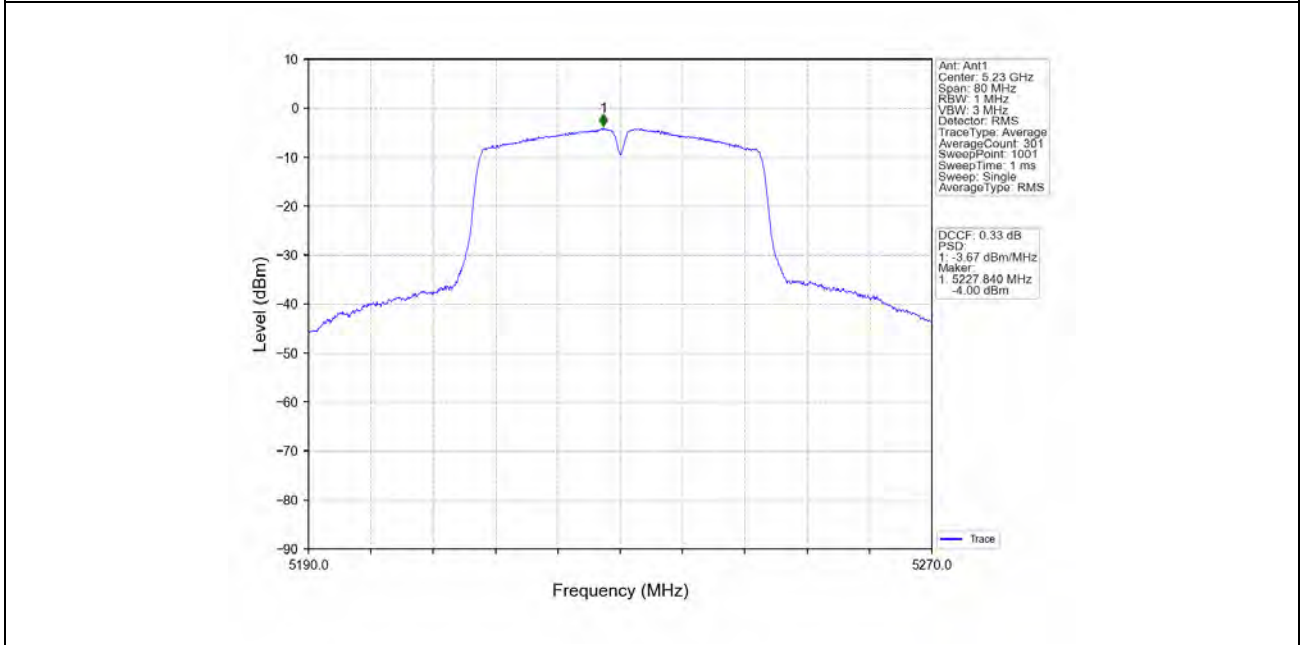


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802.11ac(VHT40)_HCH_5230MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant4_NTNV

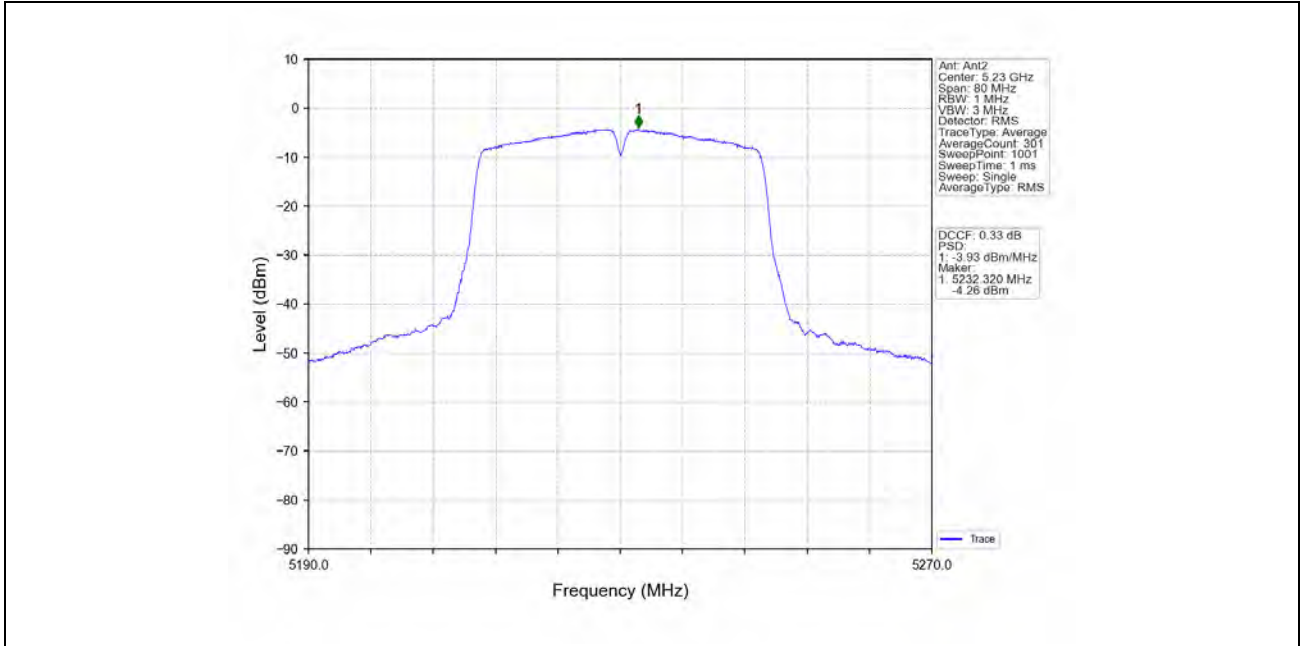


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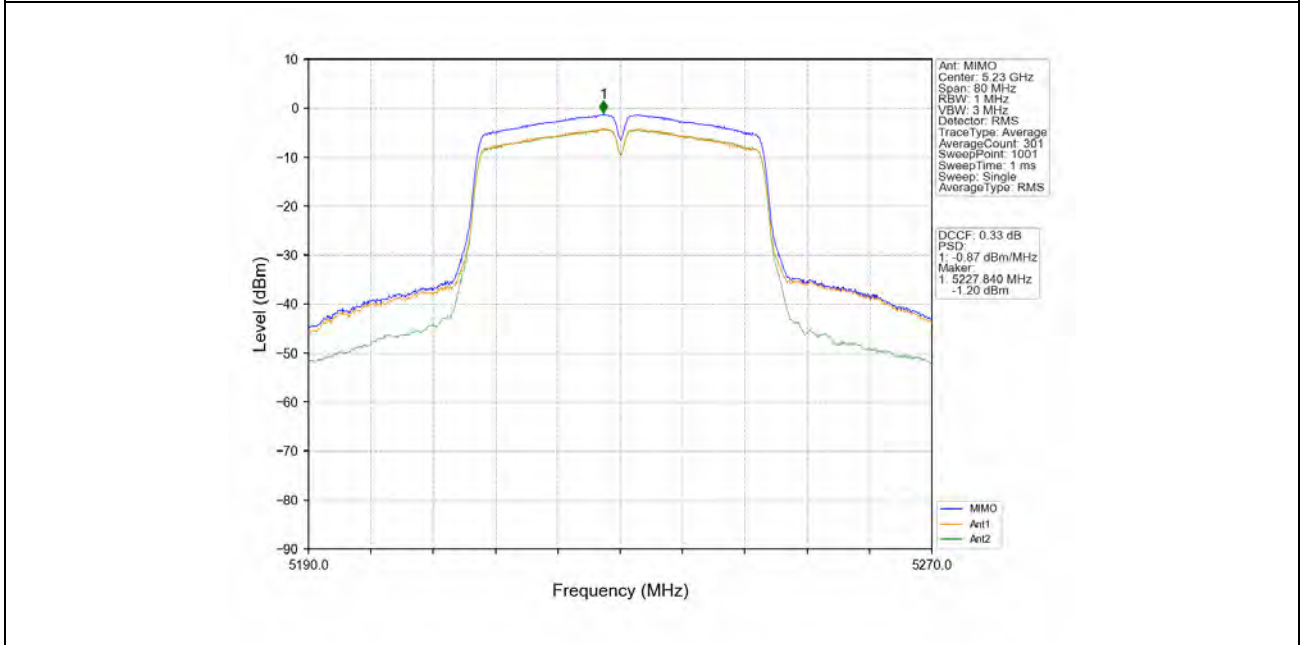
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802.11ac(VHT40)_HCH_5230MHz_MIMO_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant3_NTNV



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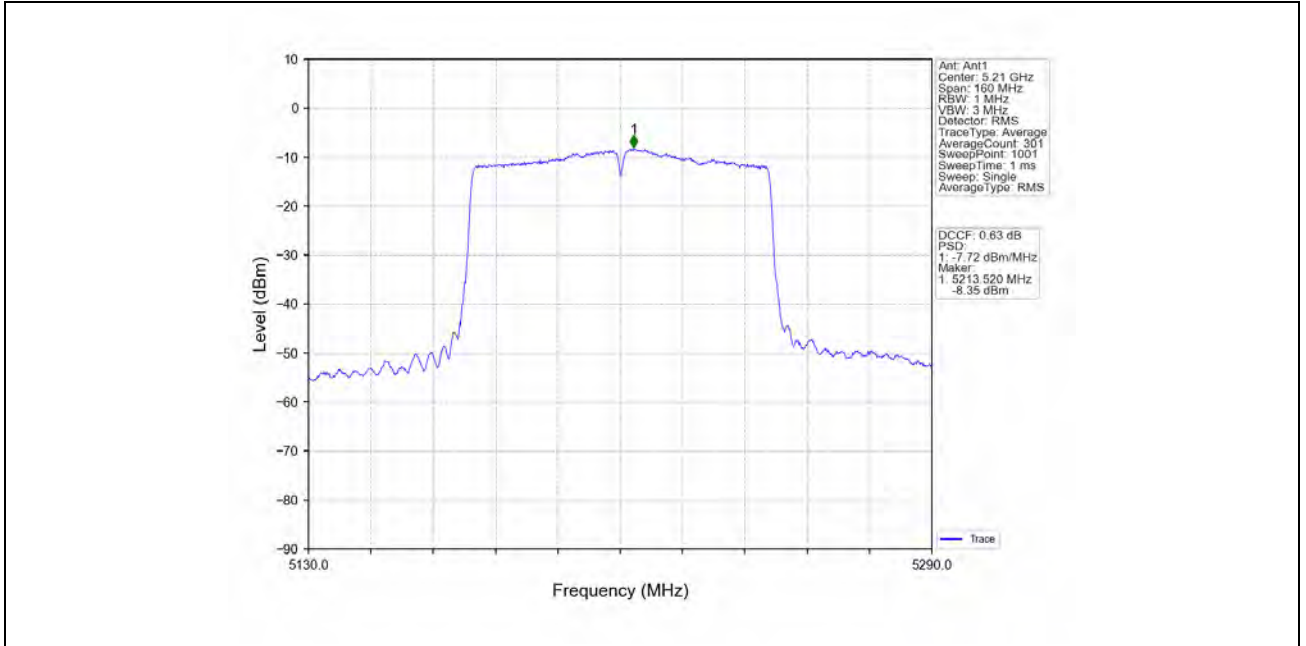
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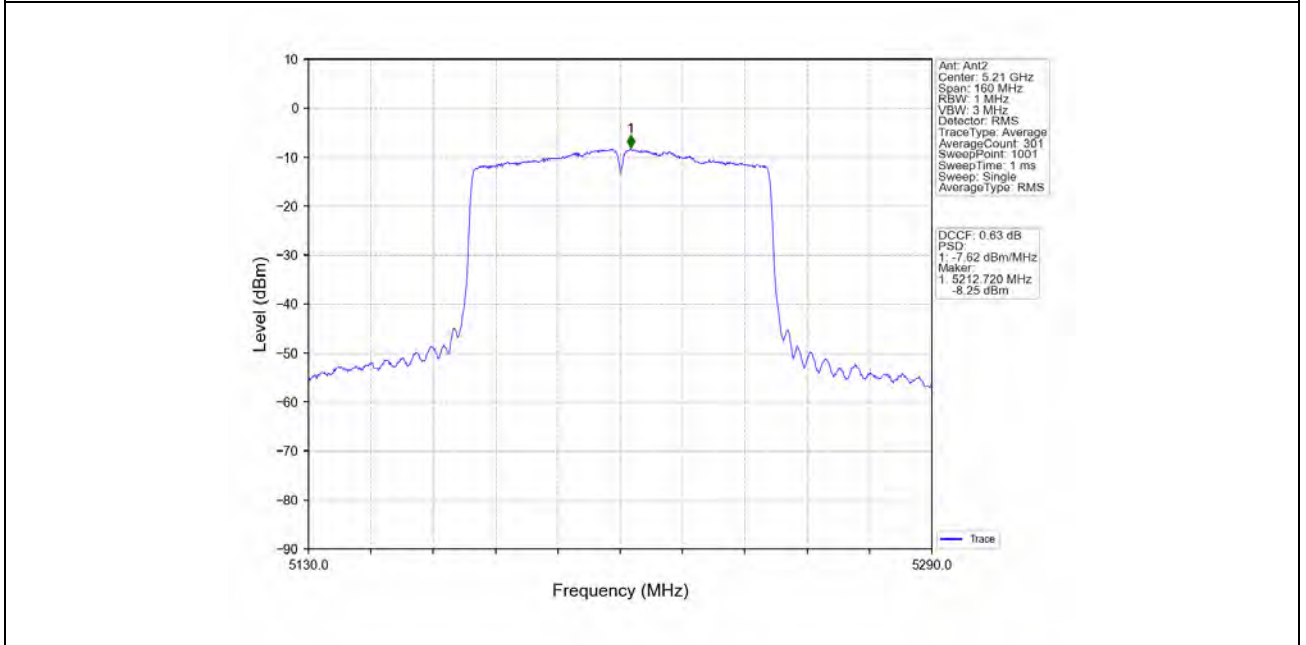
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802.11ac(VHT80)_MCH_5210MHz_Ant4_NTNV

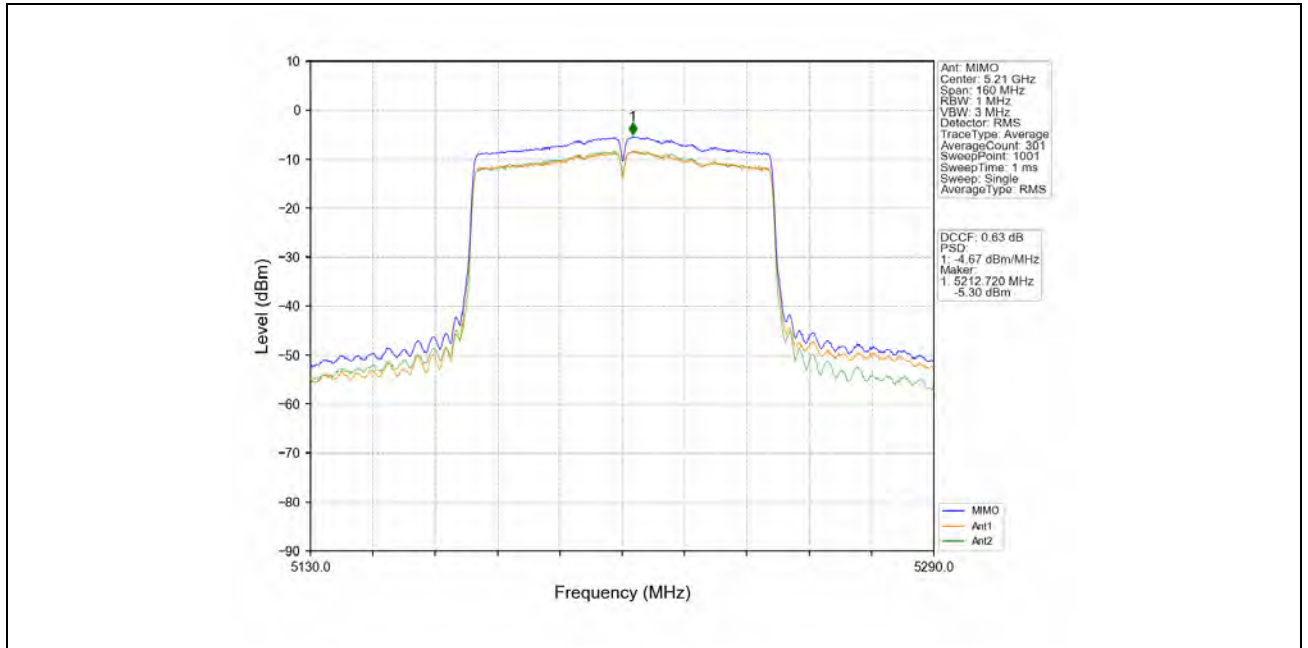


802.11ac(VHT80)_MCH_5210MHz_MIMO_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT3	ANT4	MIMO	Limit	
802.11a	SISO	5745	-0.90	-1.63	/	<=30	Pass
		5785	-0.66	-1.67	/	<=30	Pass
		5825	-0.87	-1.09	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-4.02	-4.56	-1.44	<=30	Pass
		5785	-3.93	-4.57	-1.32	<=30	Pass
		5825	-4.04	-3.77	-1.08	<=30	Pass
802.11n (HT40)	MIMO	5755	-6.45	-7.43	-3.98	<=30	Pass
		5795	-6.93	-7.32	-4.27	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-4.07	-4.73	-1.58	<=30	Pass
		5785	-4.13	-4.51	-1.45	<=30	Pass
		5825	-4.36	-3.92	-1.15	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-6.59	-7.59	-4.21	<=30	Pass
		5795	-7.03	-7.02	-4.25	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-6.29	-10.68	-4.99	<=30	Pass

Note1: For U-NII-3 Antenna Gain: Ant3: 2.46dBi; Ant4: 2.55dBi. Directional gain:5.51dBi.

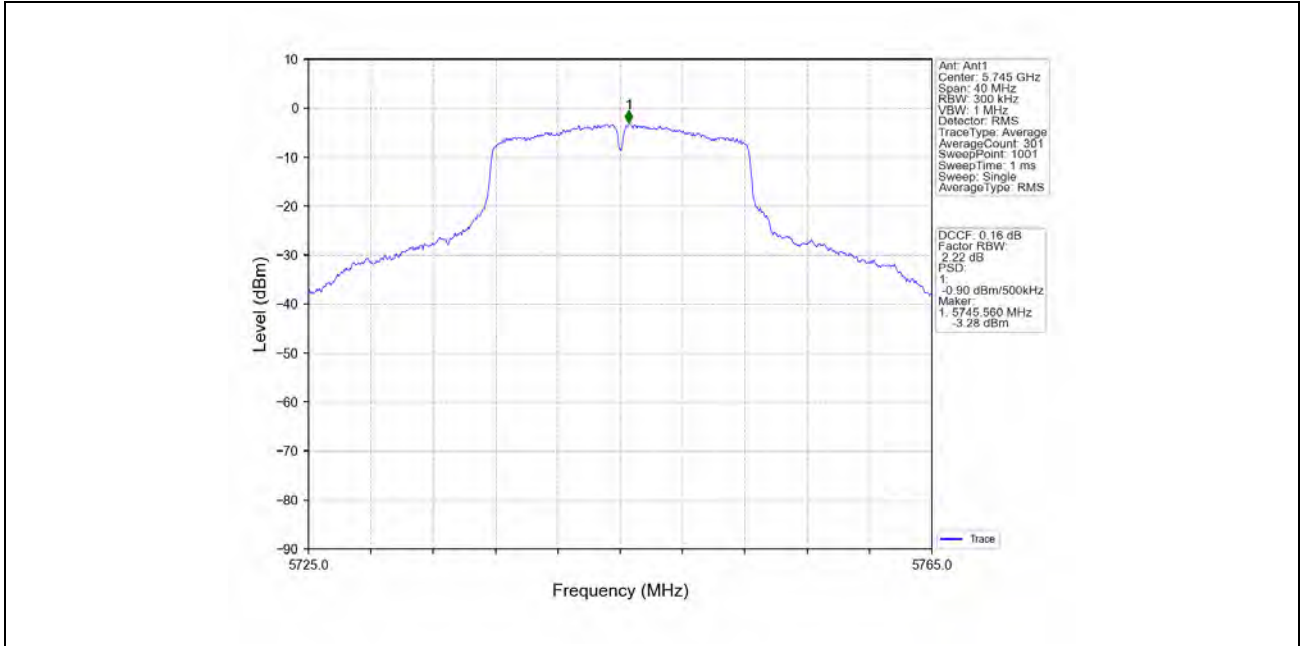
4.2.2 Test Graph

802.11a_LCH_5745MHz_Ant3_NTNV

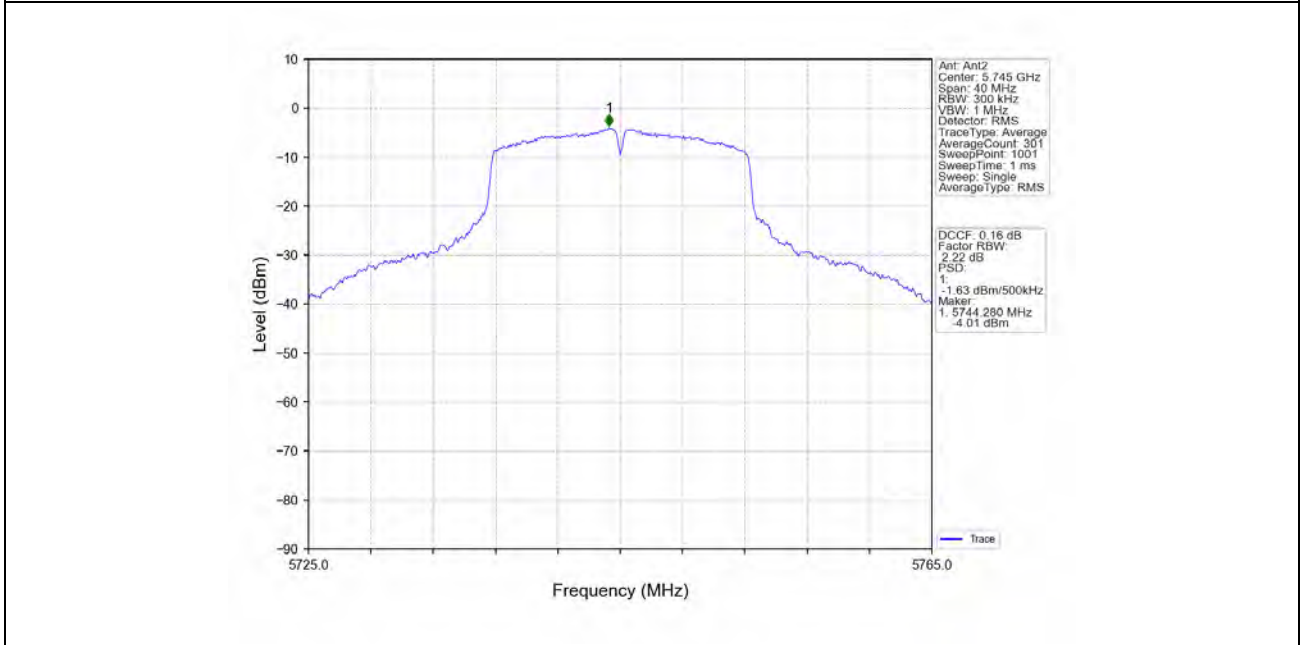


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802.11a_LCH_5745MHz_Ant4_NTNV

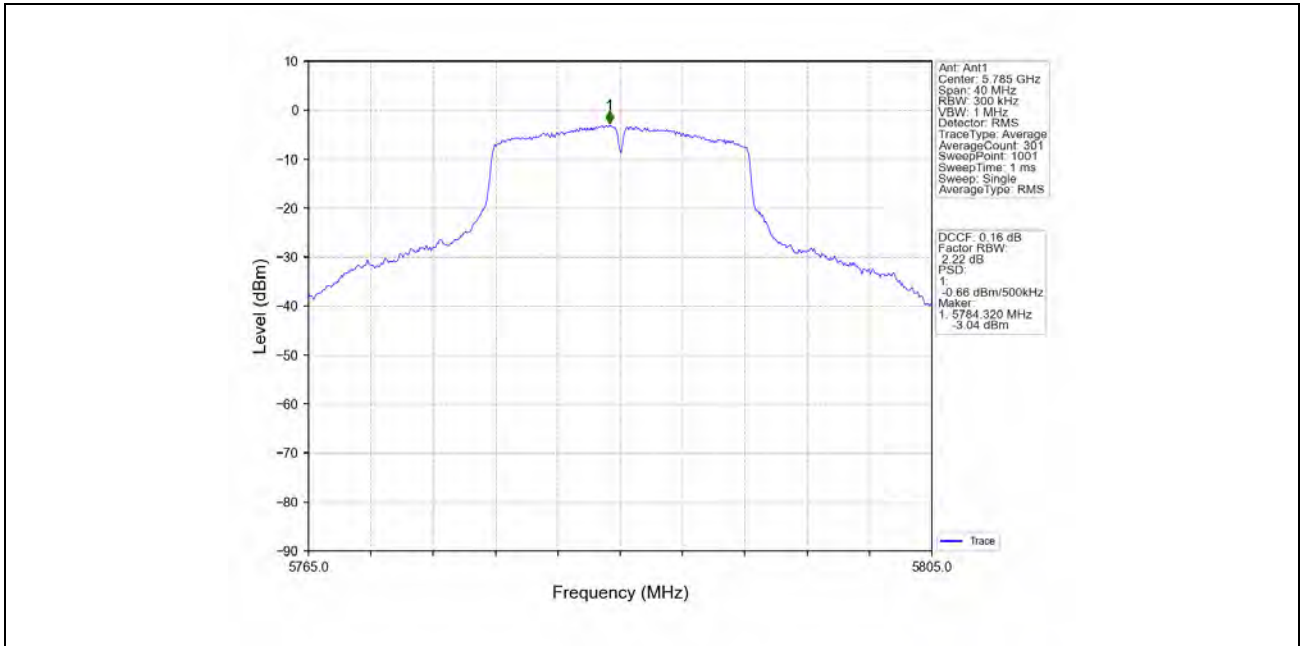


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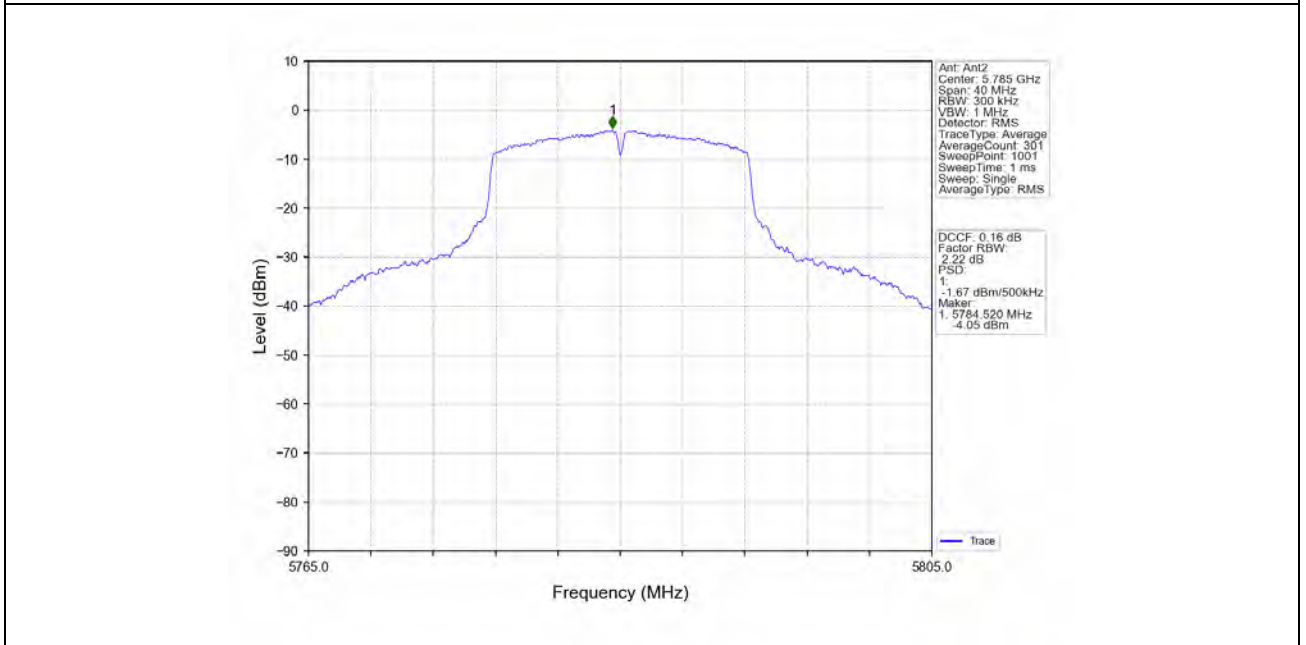


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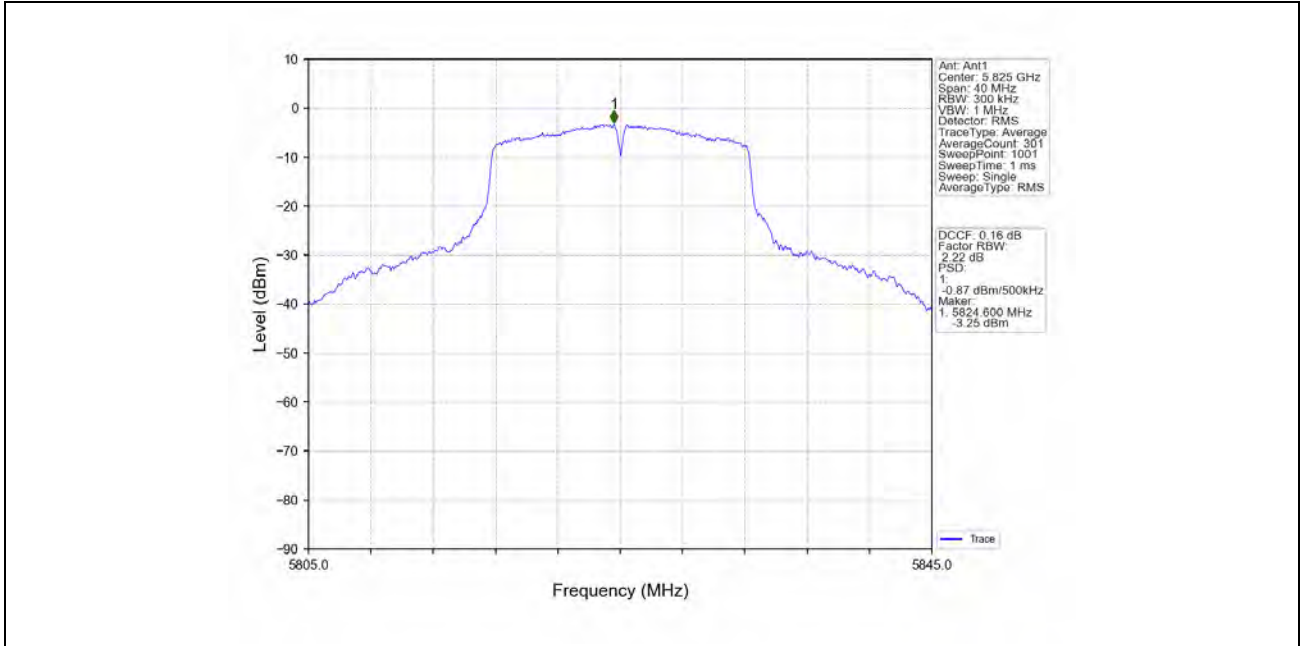


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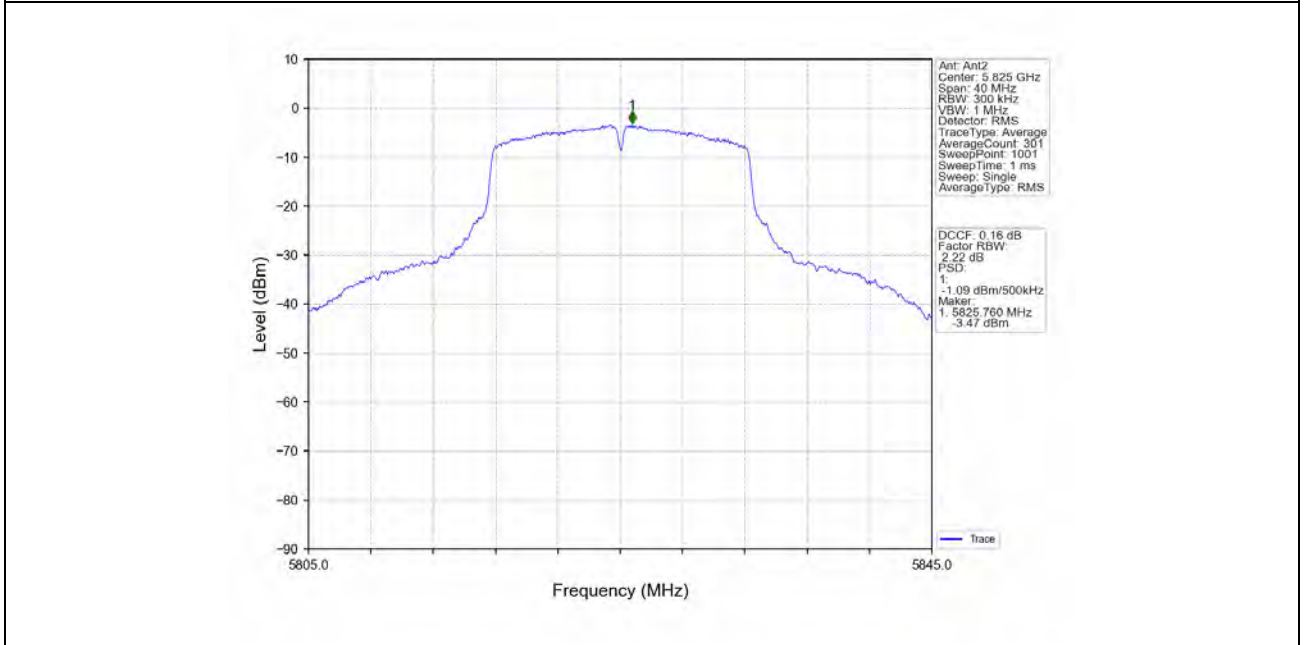


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802.11a_HCH_5825MHz_Ant4_NTNV

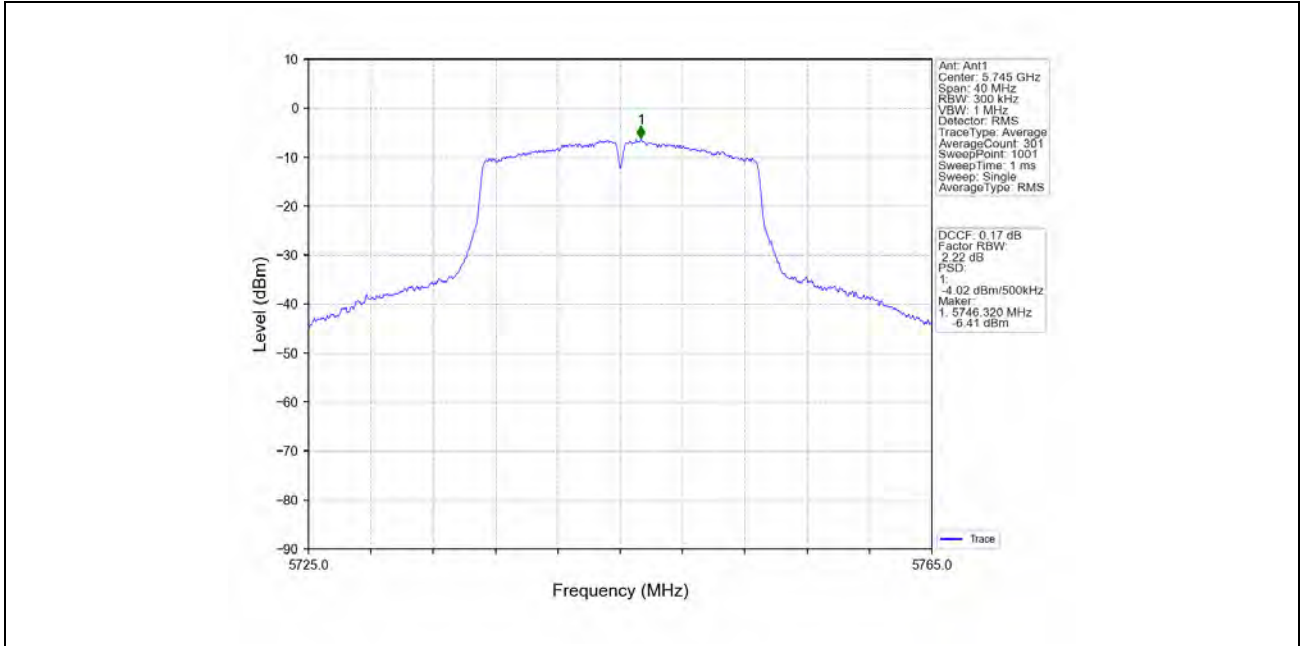


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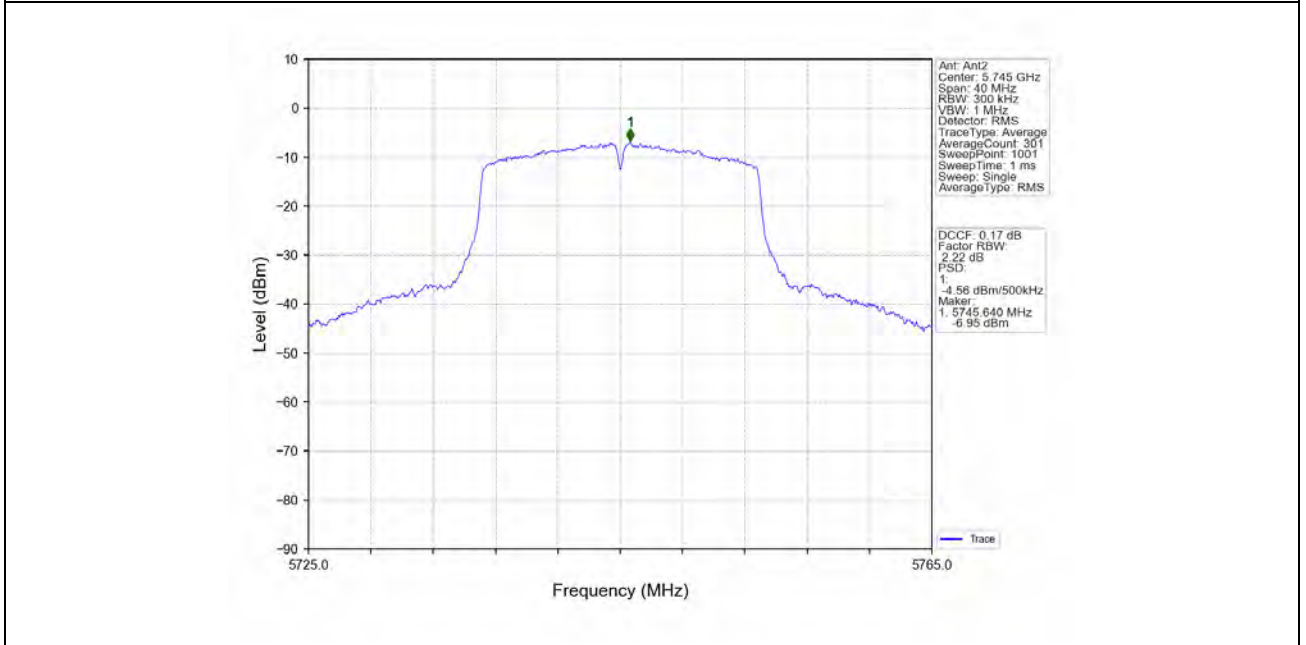


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802.11n(HT20)_LCH_5745MHz_Ant4_NTNV

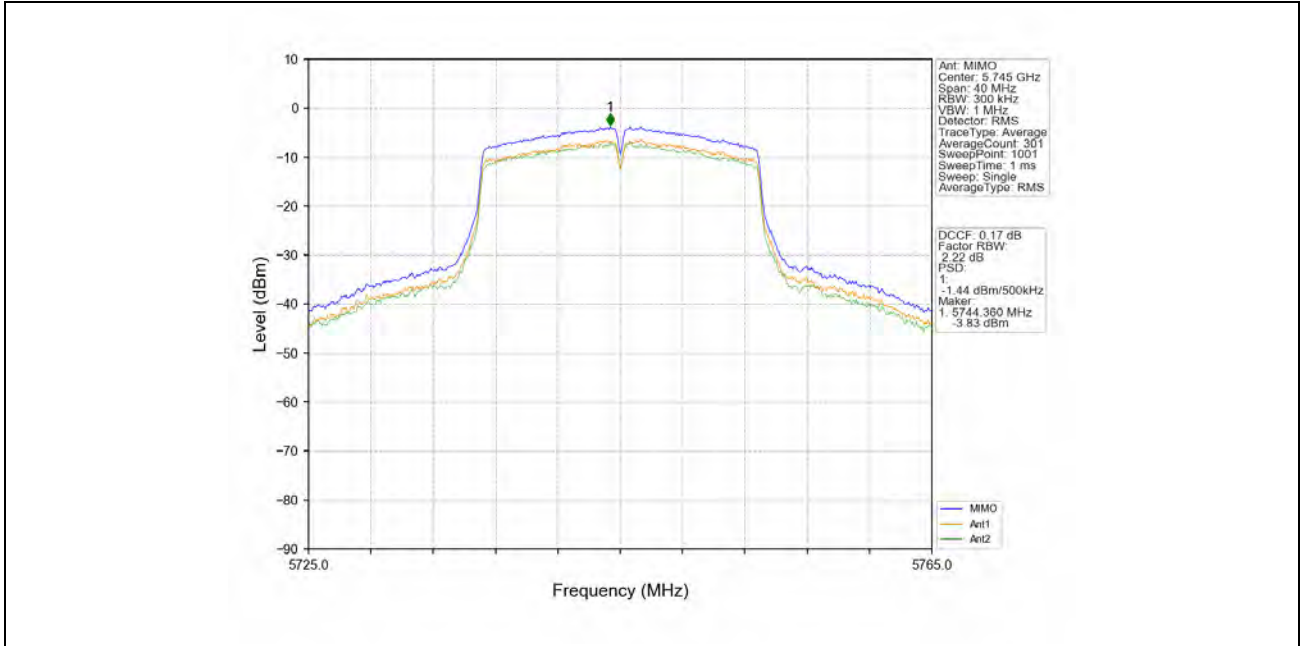


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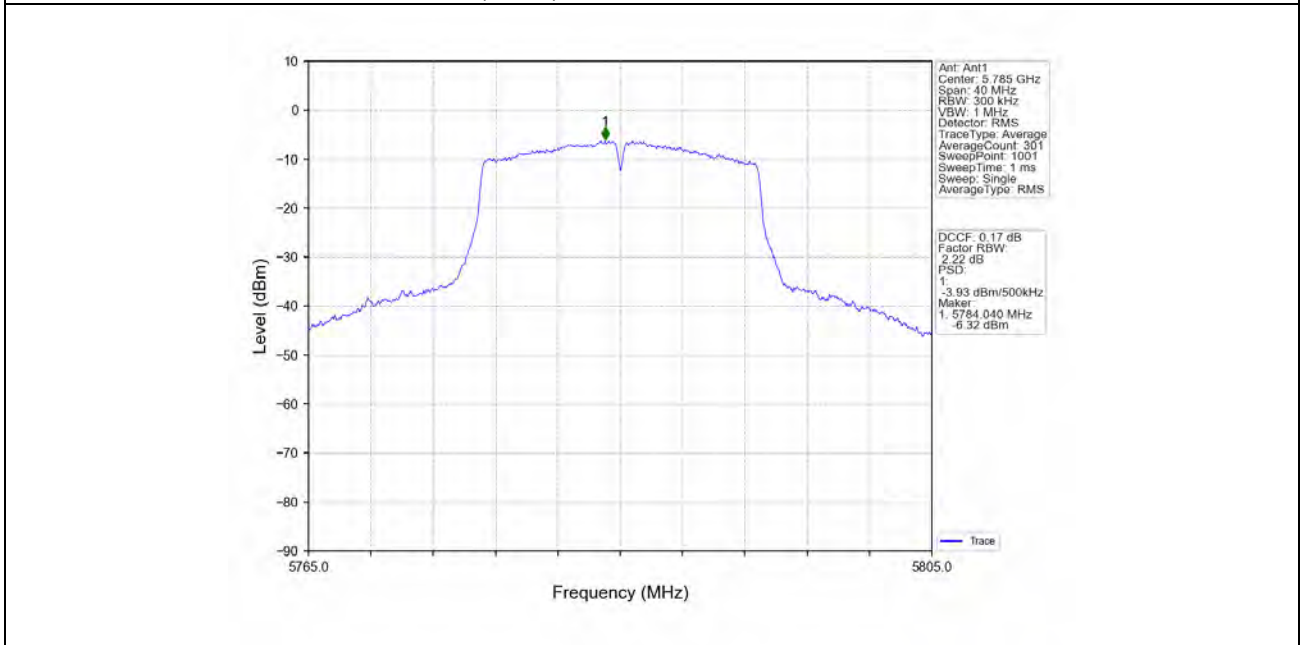


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802.11n(HT20)_MCH_5785MHz_Ant3_NTNV



802.11n(HT20)_MCH_5785MHz_Ant4_NTNV

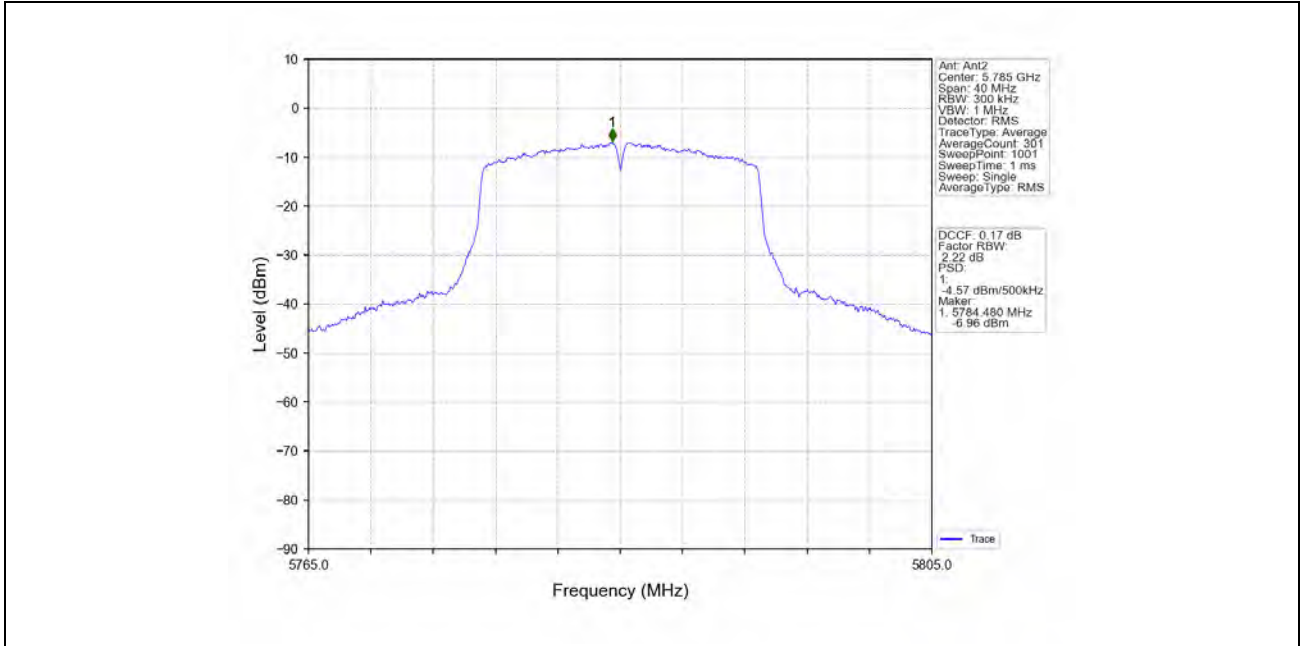


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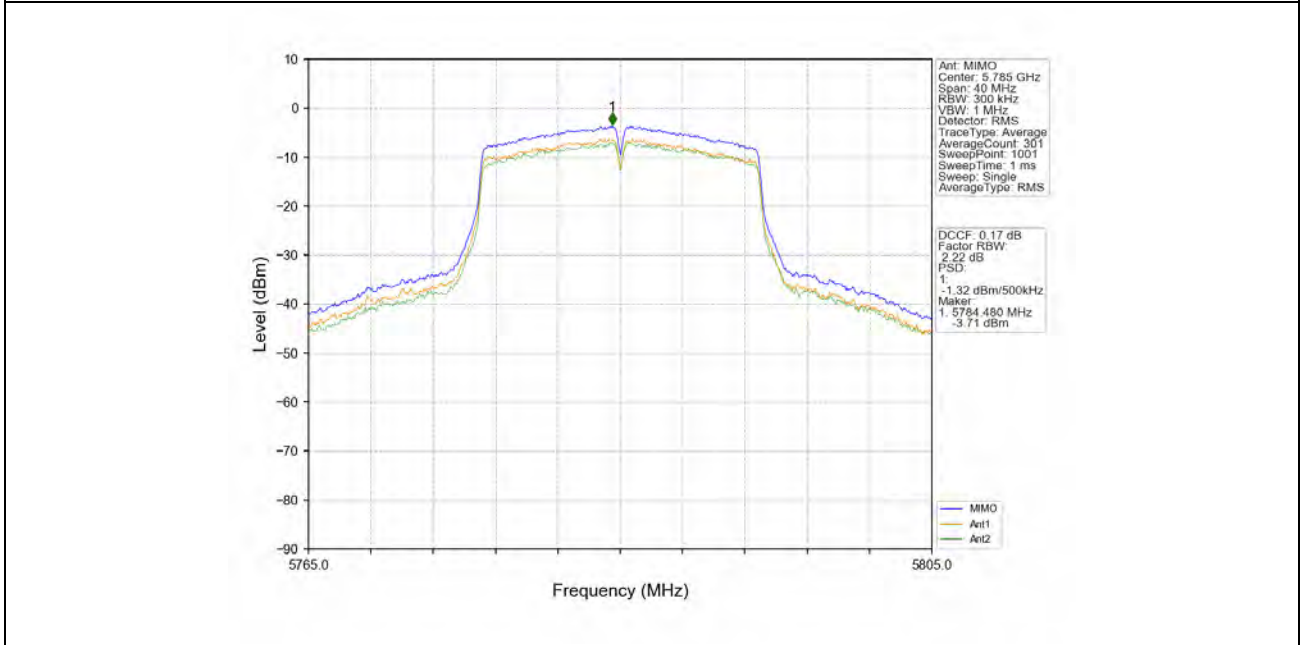
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802.11n(HT20)_MCH_5785MHz_MIMO_NTNV

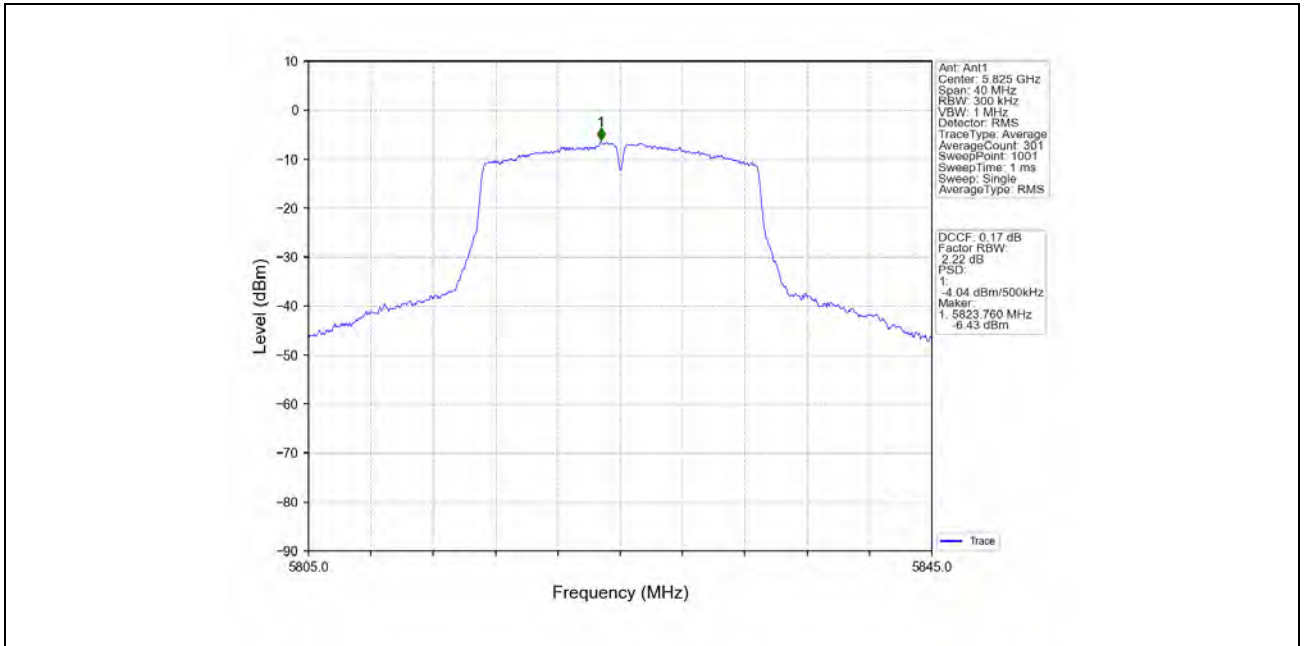


802.11n(HT20)_HCH_5825MHz_Ant3_NTNV

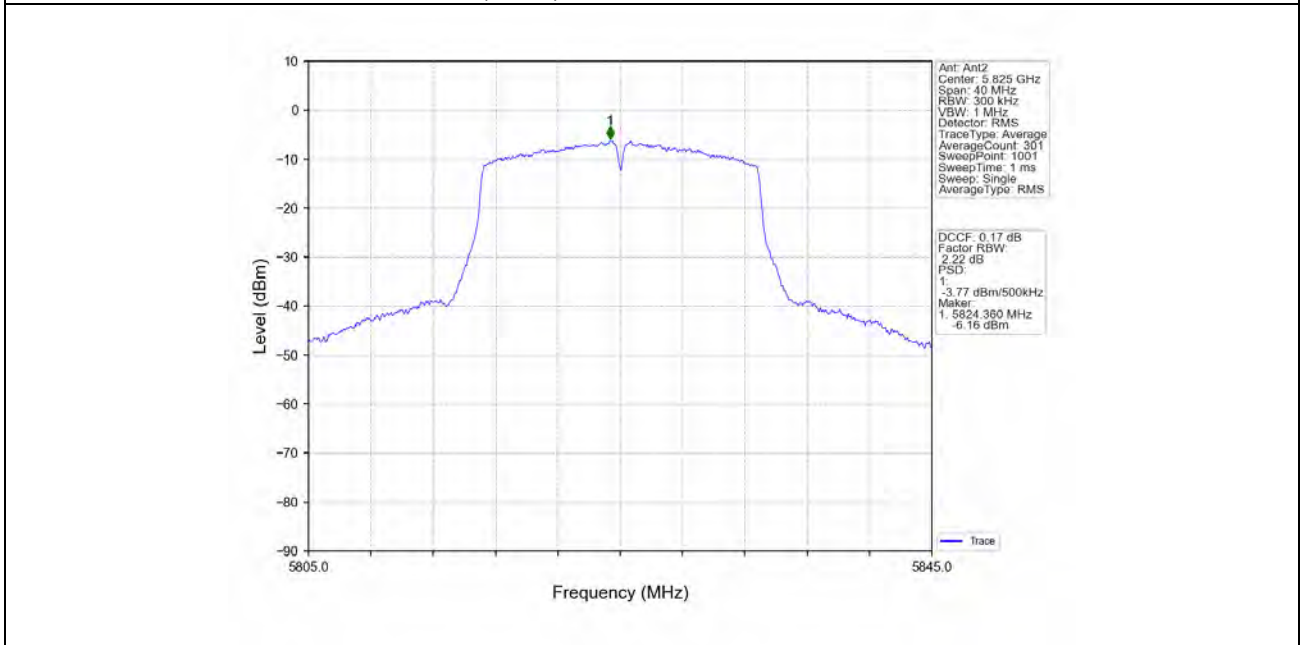


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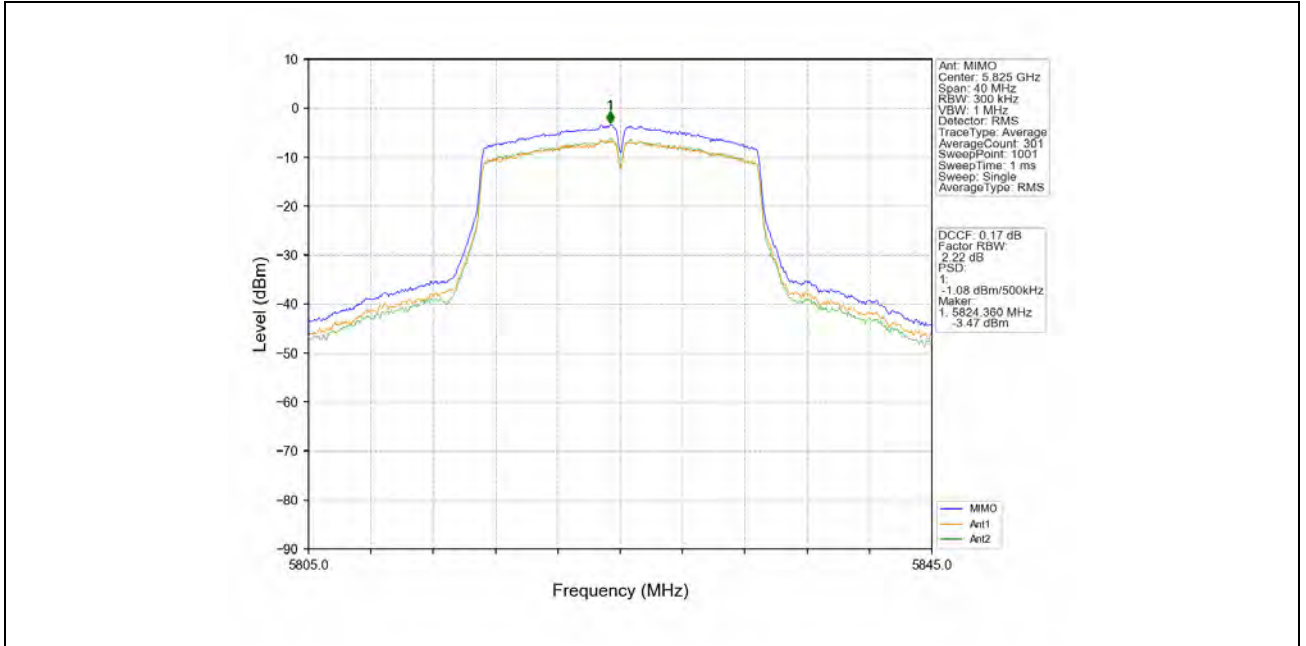


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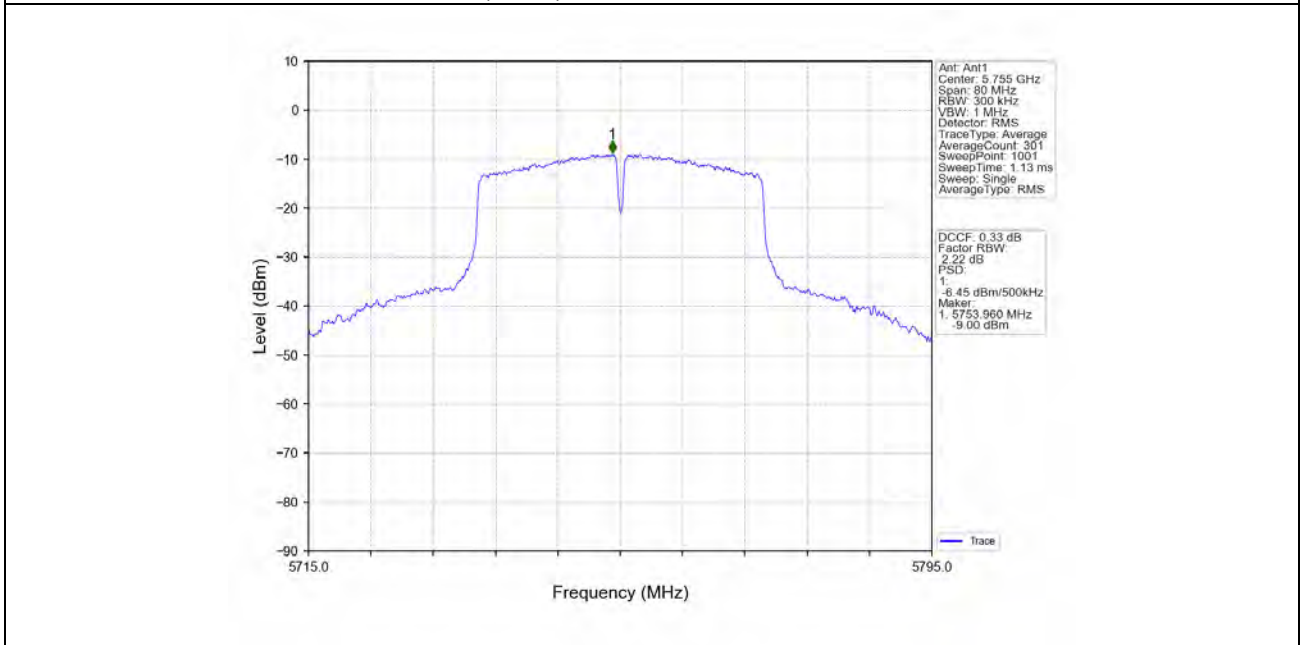


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802.11n(HT40)_LCH_5755MHz_Ant3_NTNV



802.11n(HT40)_LCH_5755MHz_Ant4_NTNV

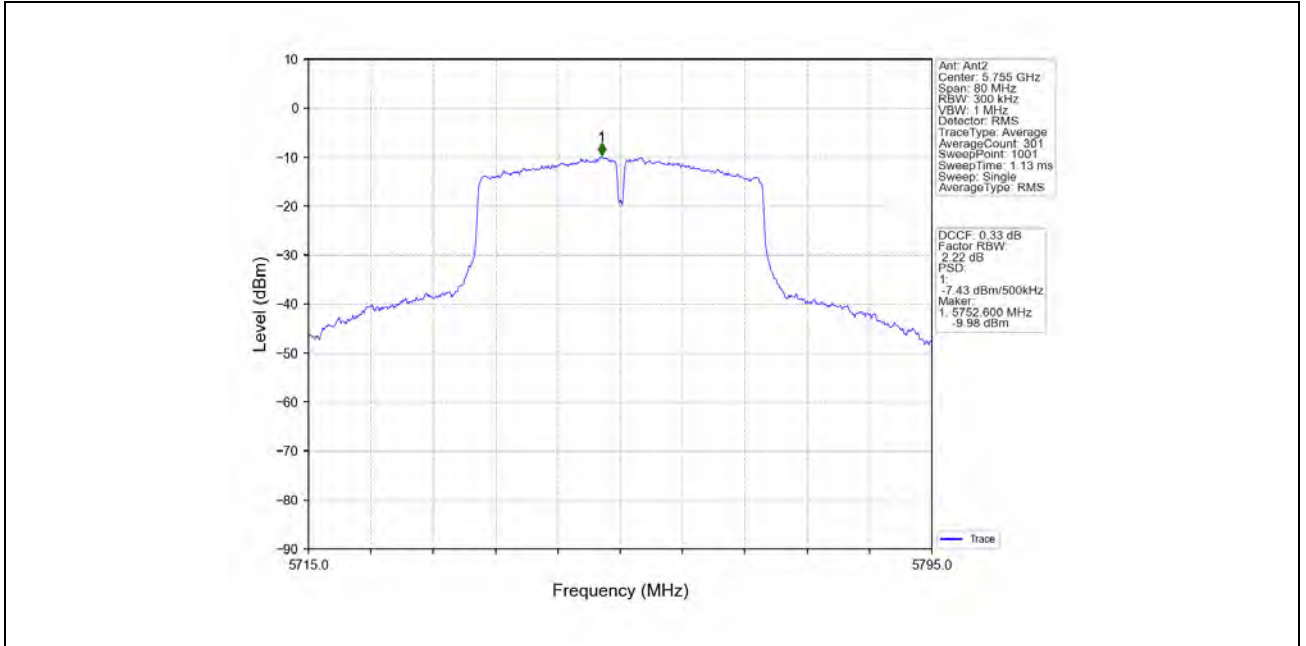


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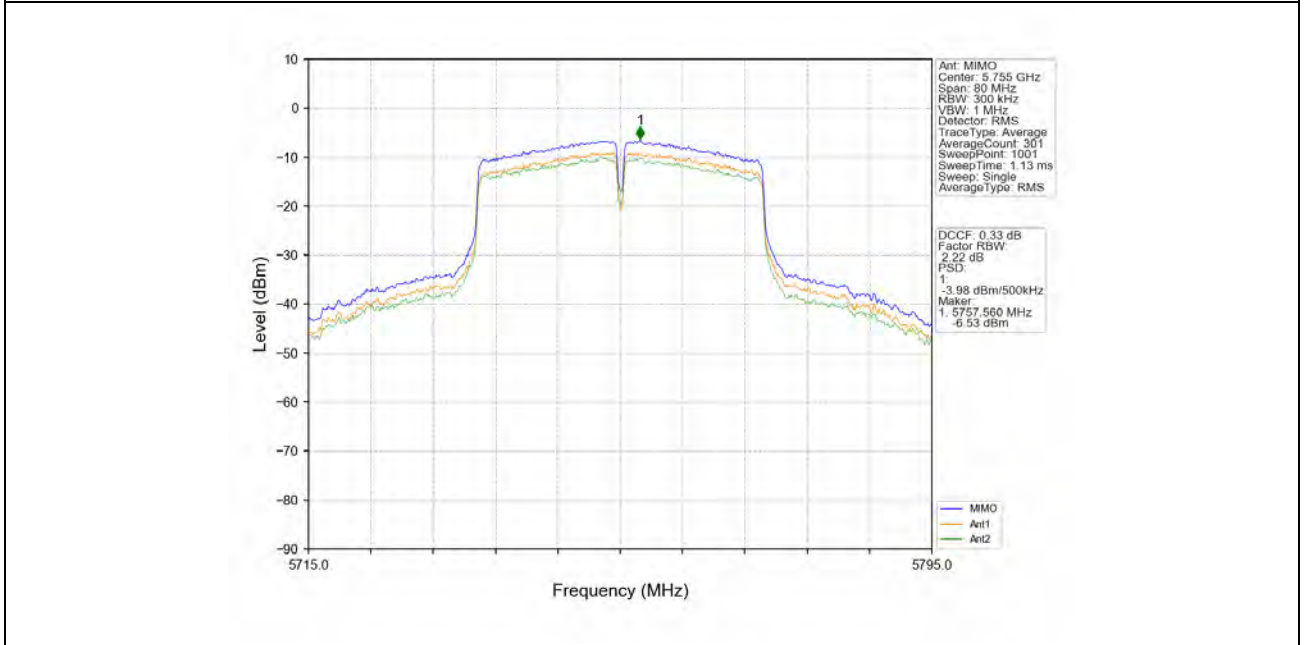
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802.11n(HT40)_LCH_5755MHz_MIMO_NTNV

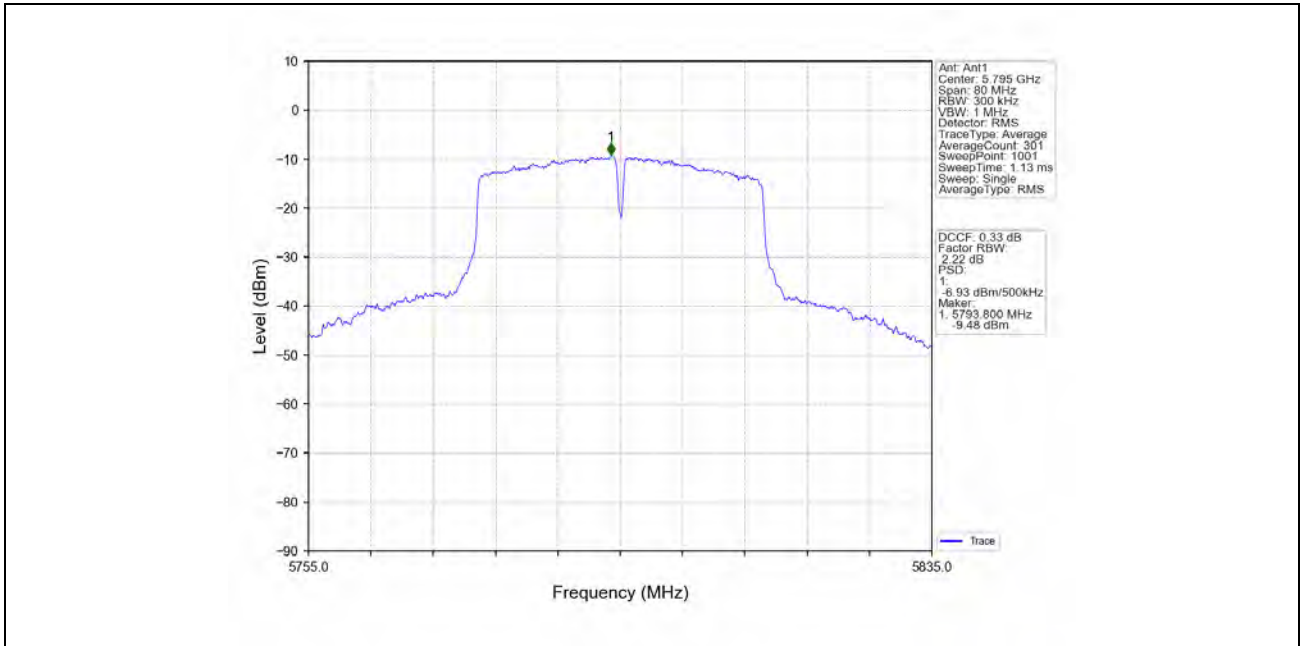


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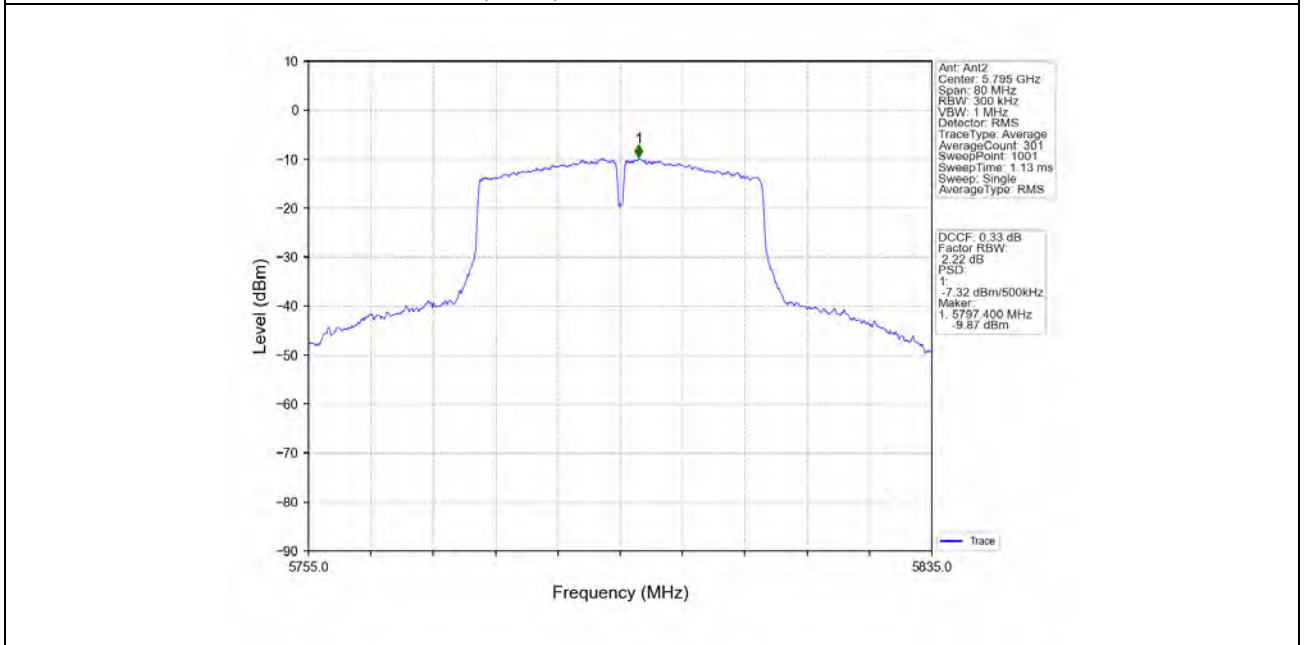


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802.11n(HT40)_HCH_5795MHz_Ant4_NTNV

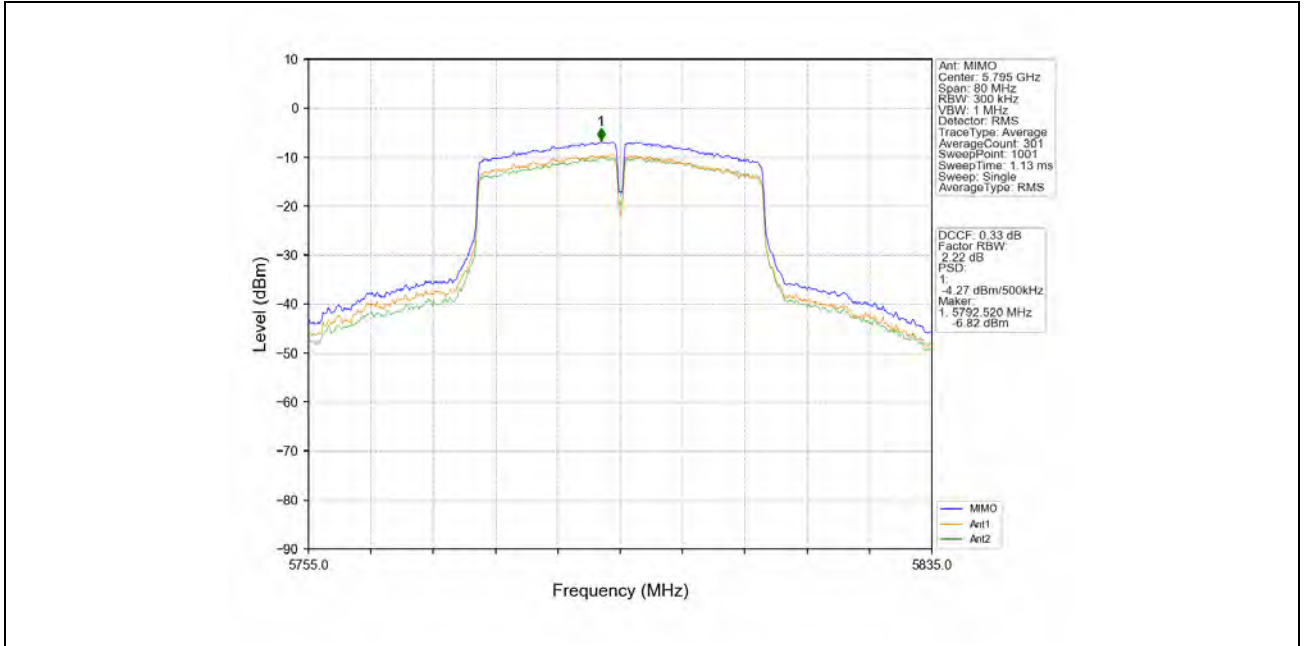


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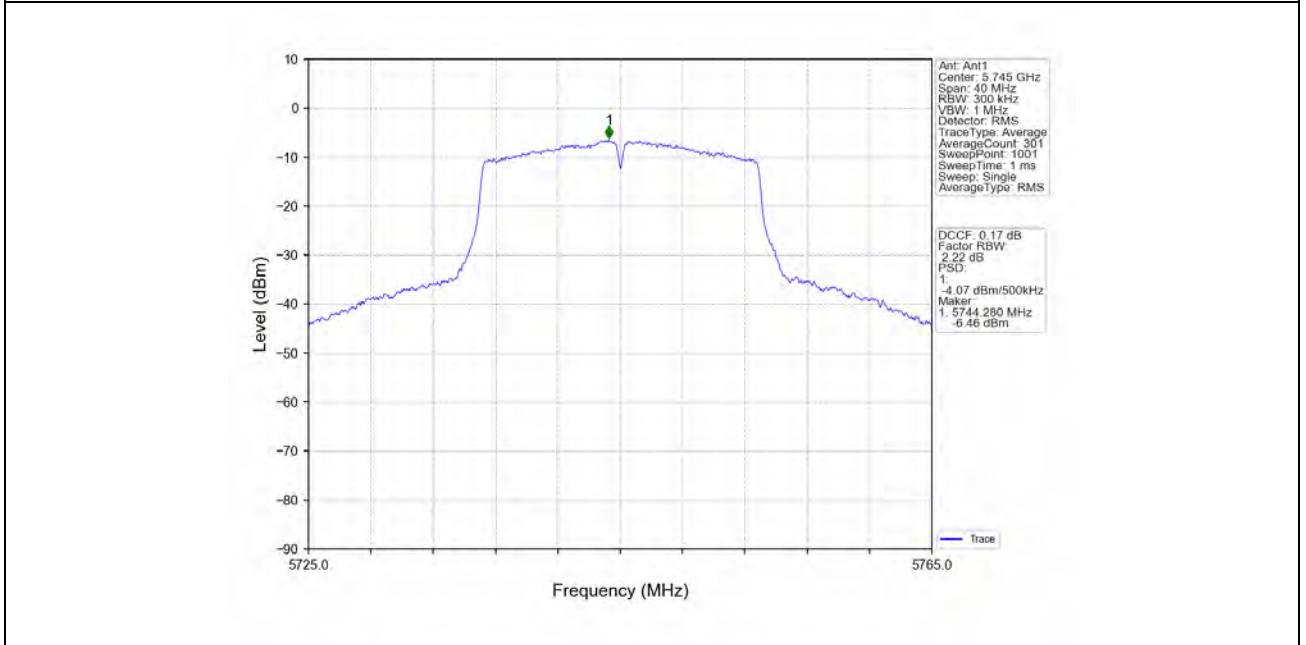


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802.11ac(VHT20)_LCH_5745MHz_Ant3_NTNV

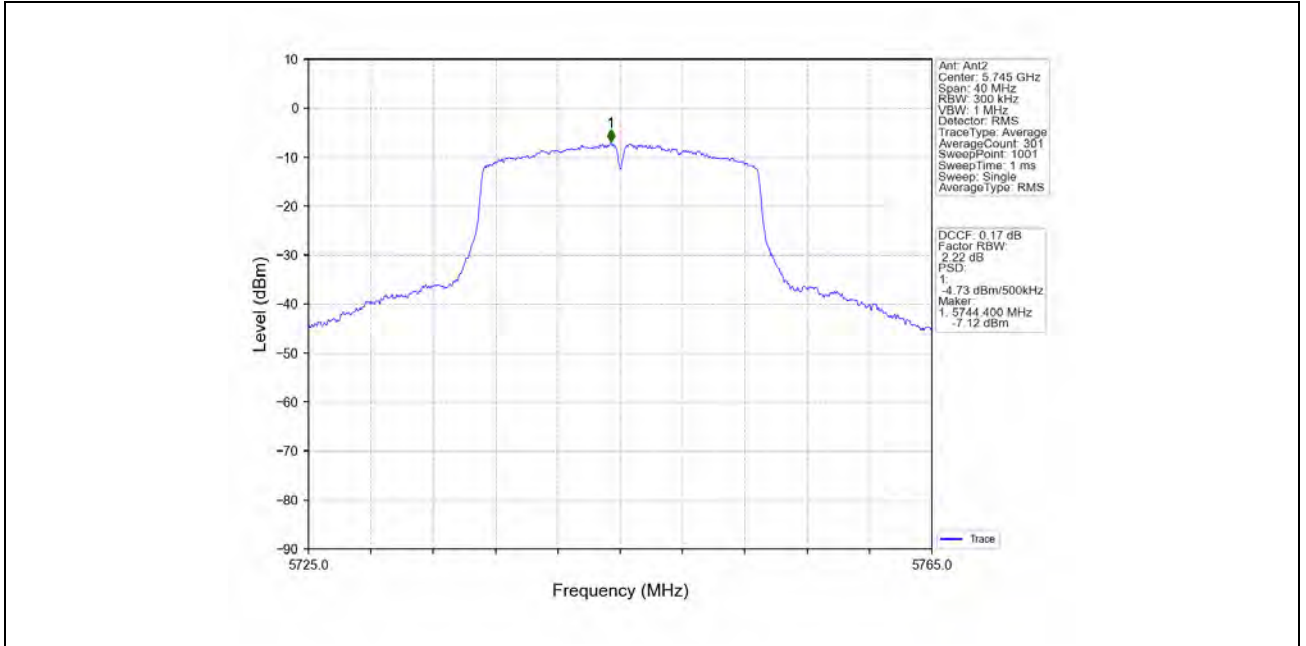


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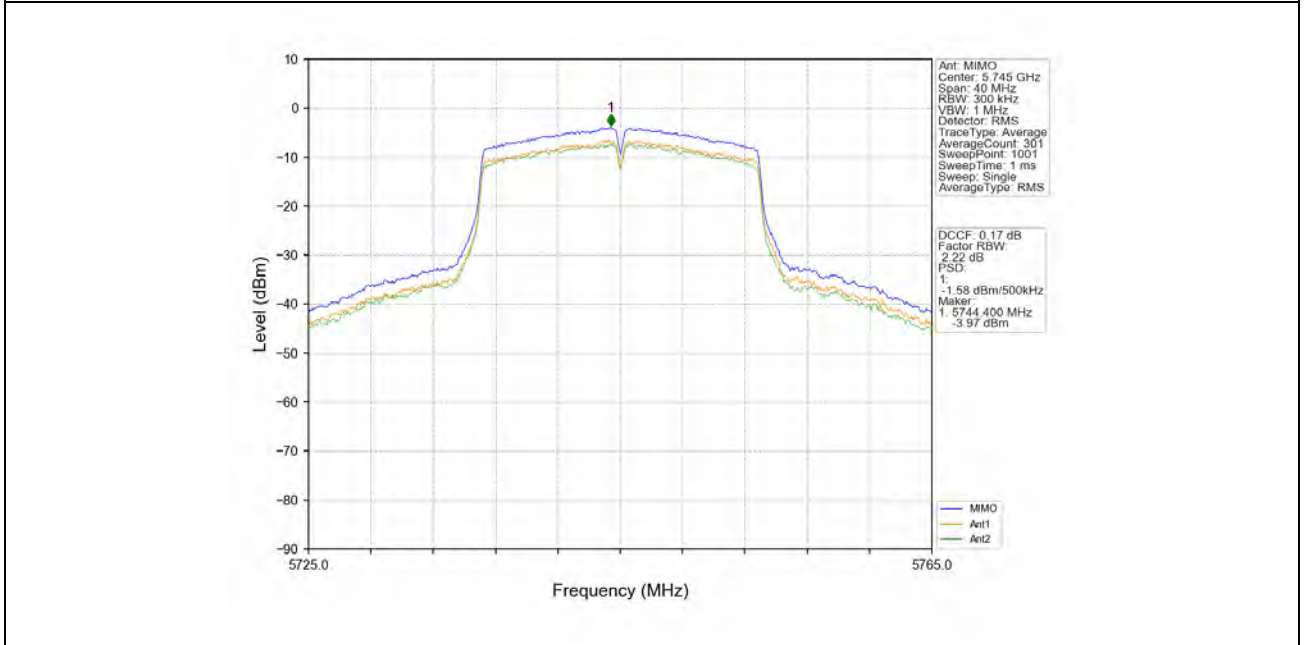


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802.11ac(VHT20)_LCH_5745MHz_MIMO_NTNV

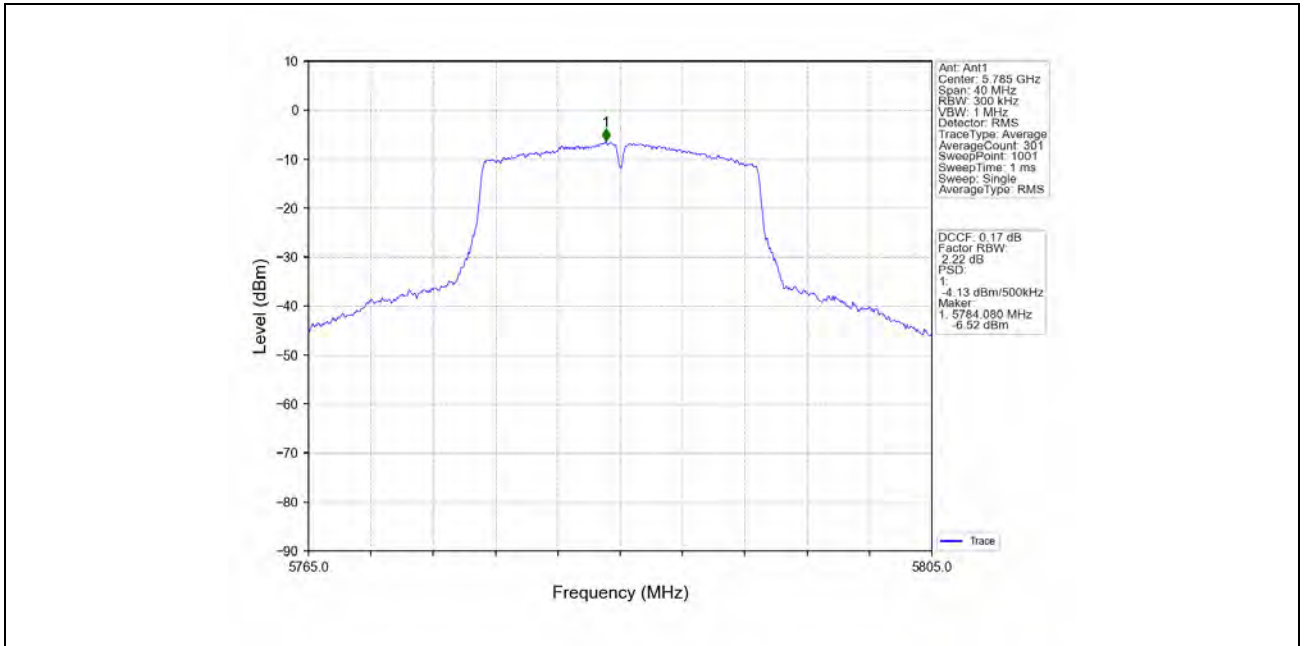


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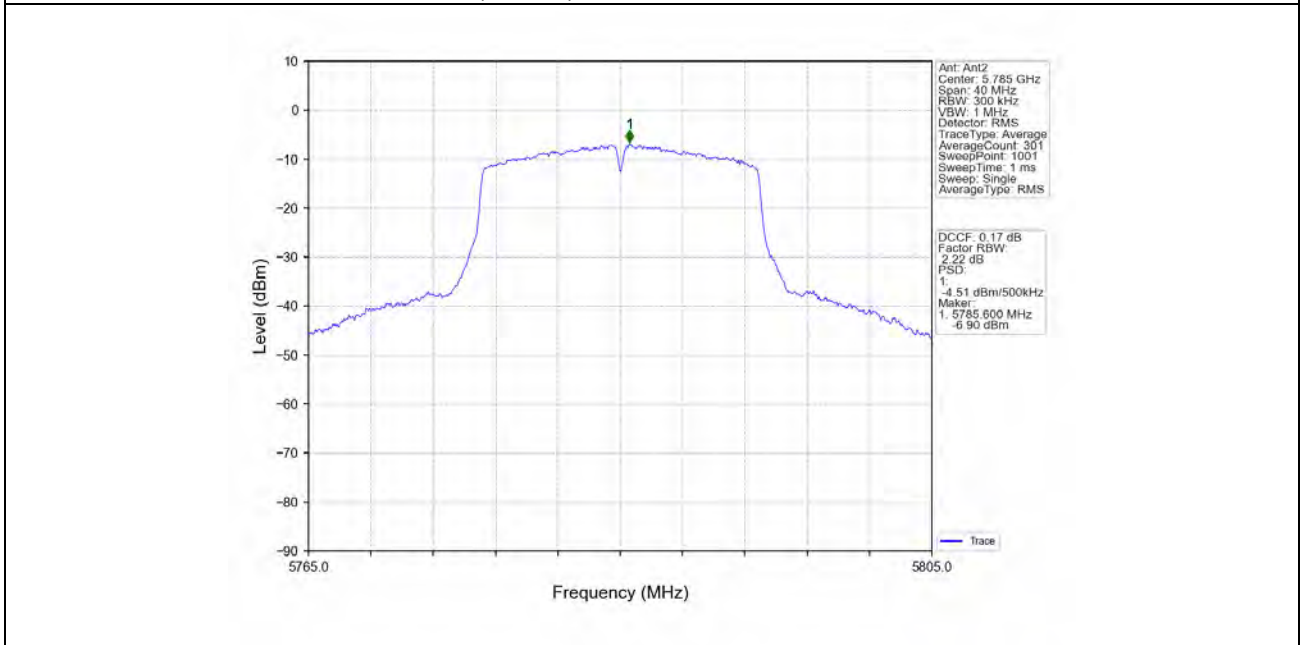


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802.11ac(VHT20)_MCH_5785MHz_Ant4_NTNV



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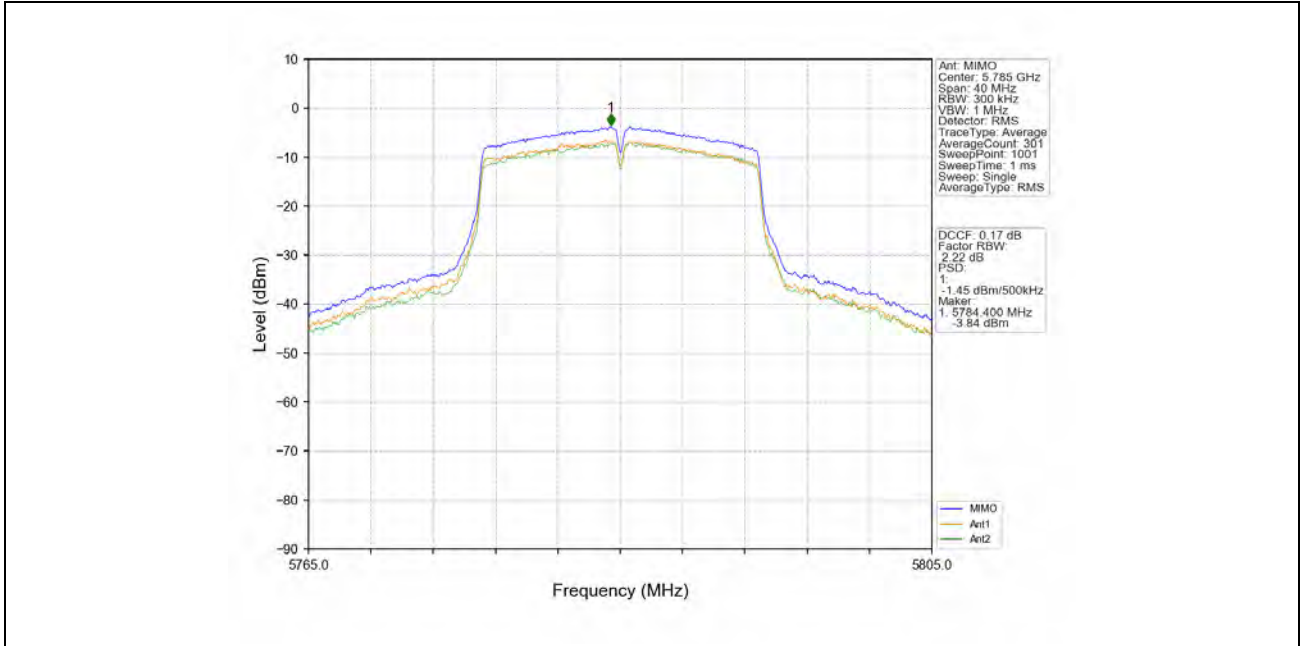


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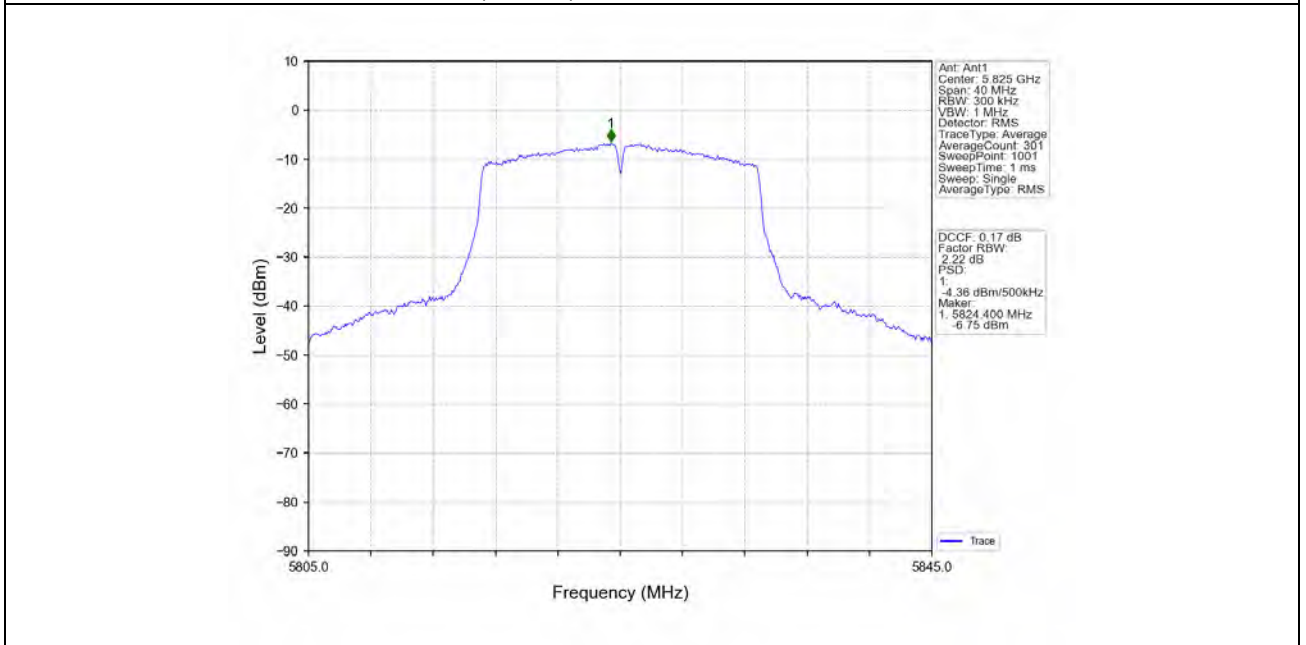
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802.11ac(VHT20)_HCH_5825MHz_Ant3_NTNV



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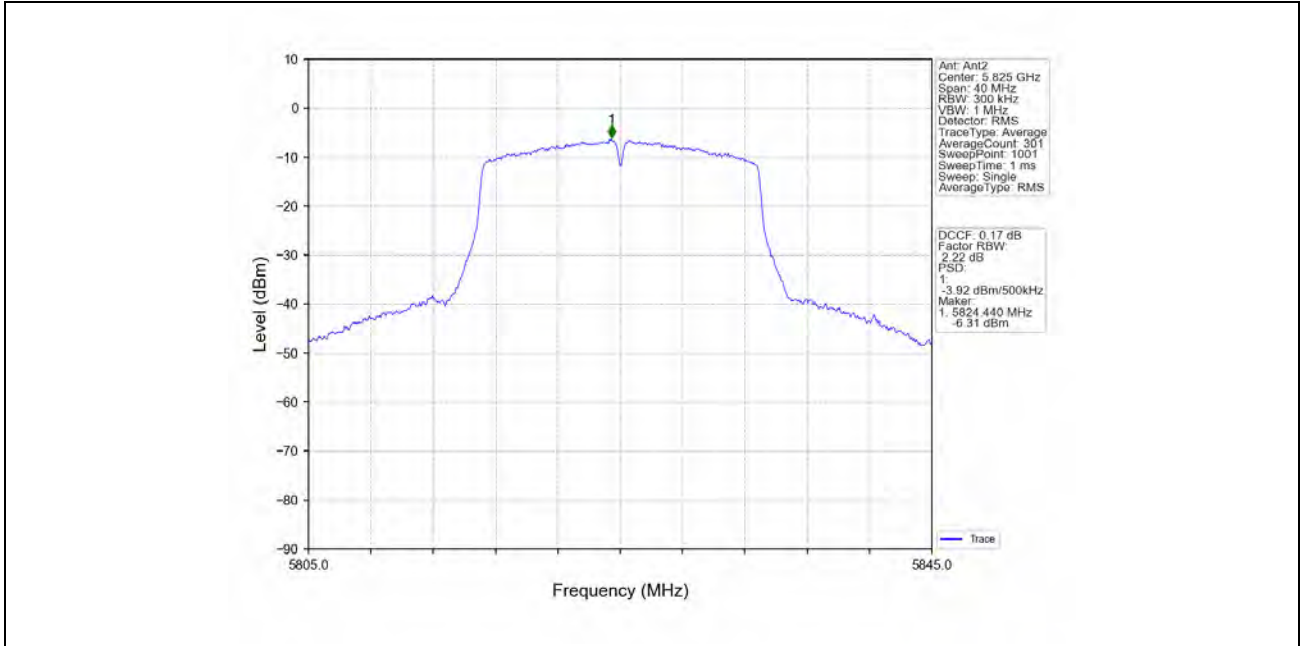


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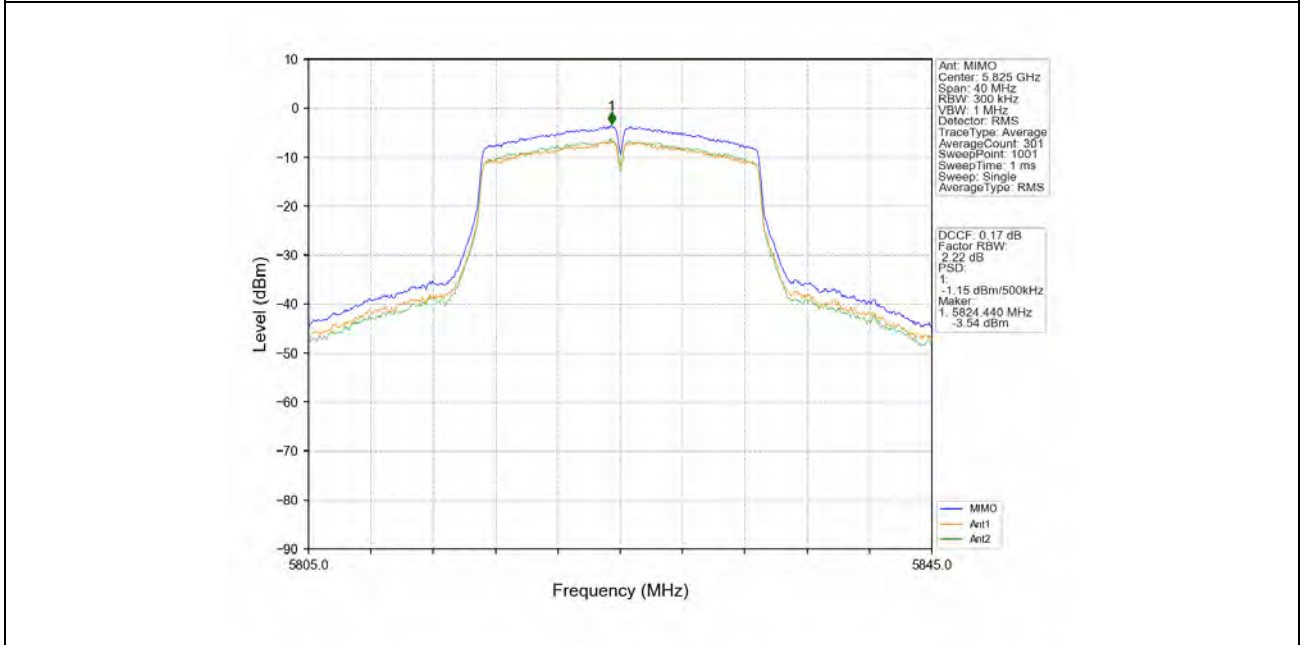
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802.11ac(VHT20)_HCH_5825MHz_MIMO_NTNV

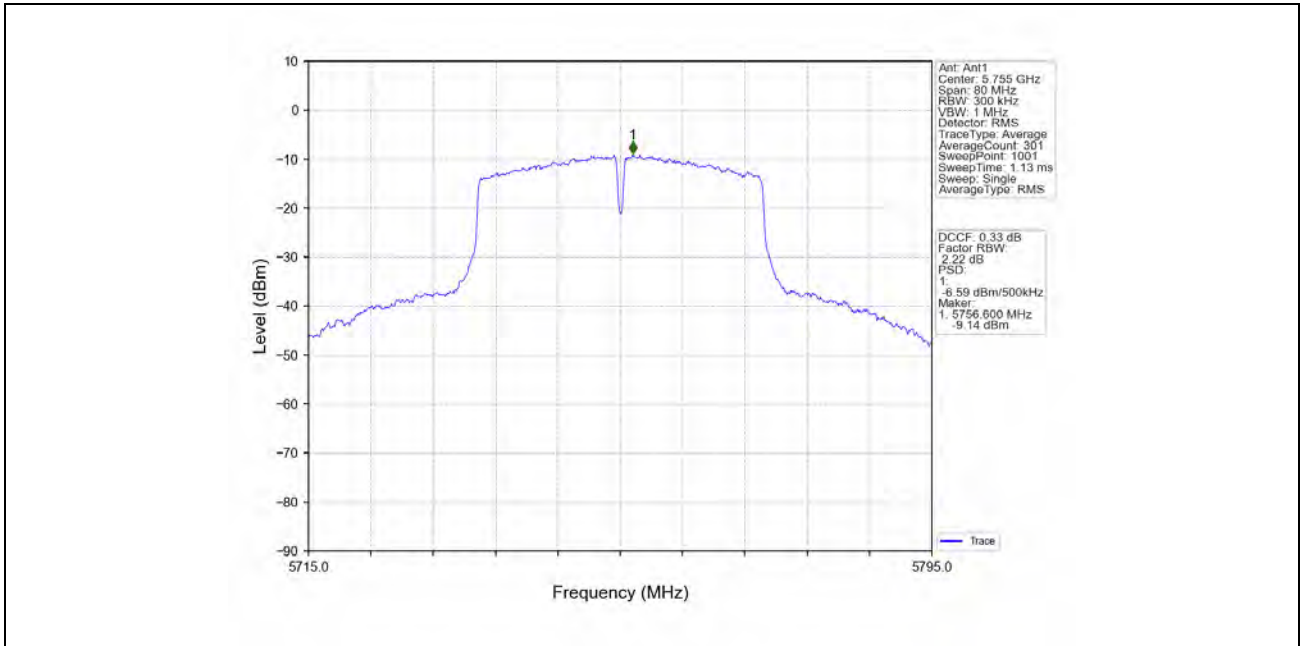


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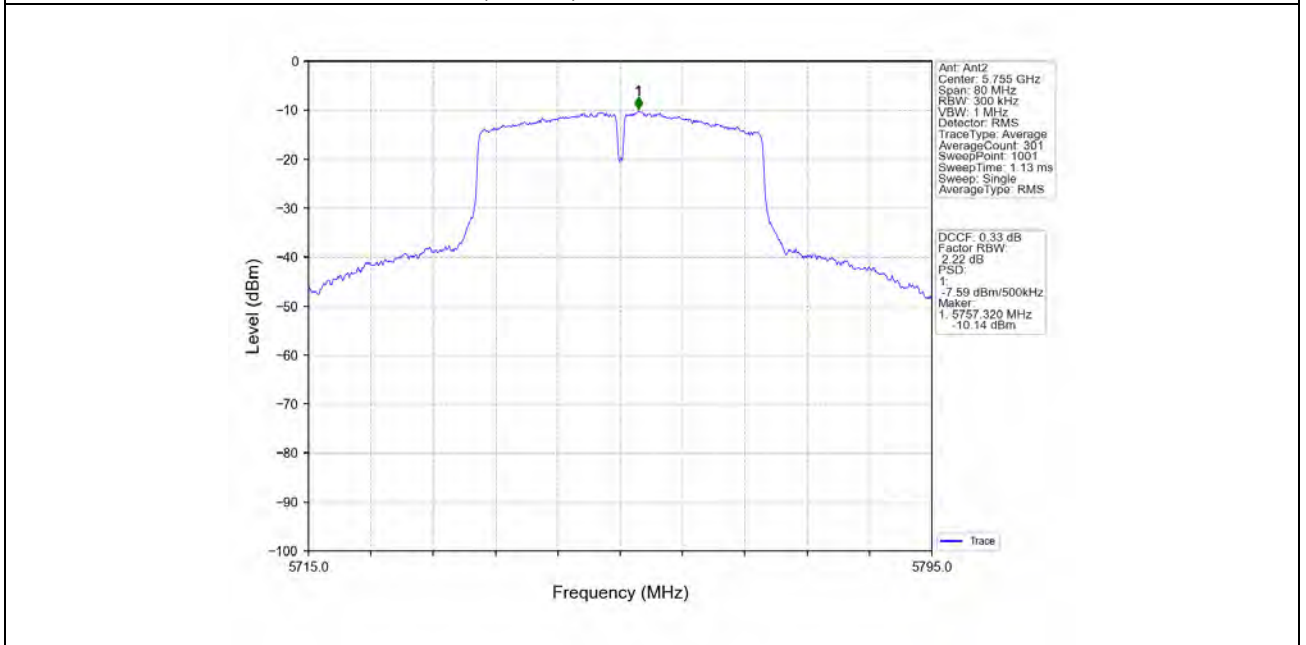


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802.11ac(VHT40)_LCH_5755MHz_Ant4_NTNV



802.11ac(VHT40)_LCH_5755MHz_MIMO_NTNV

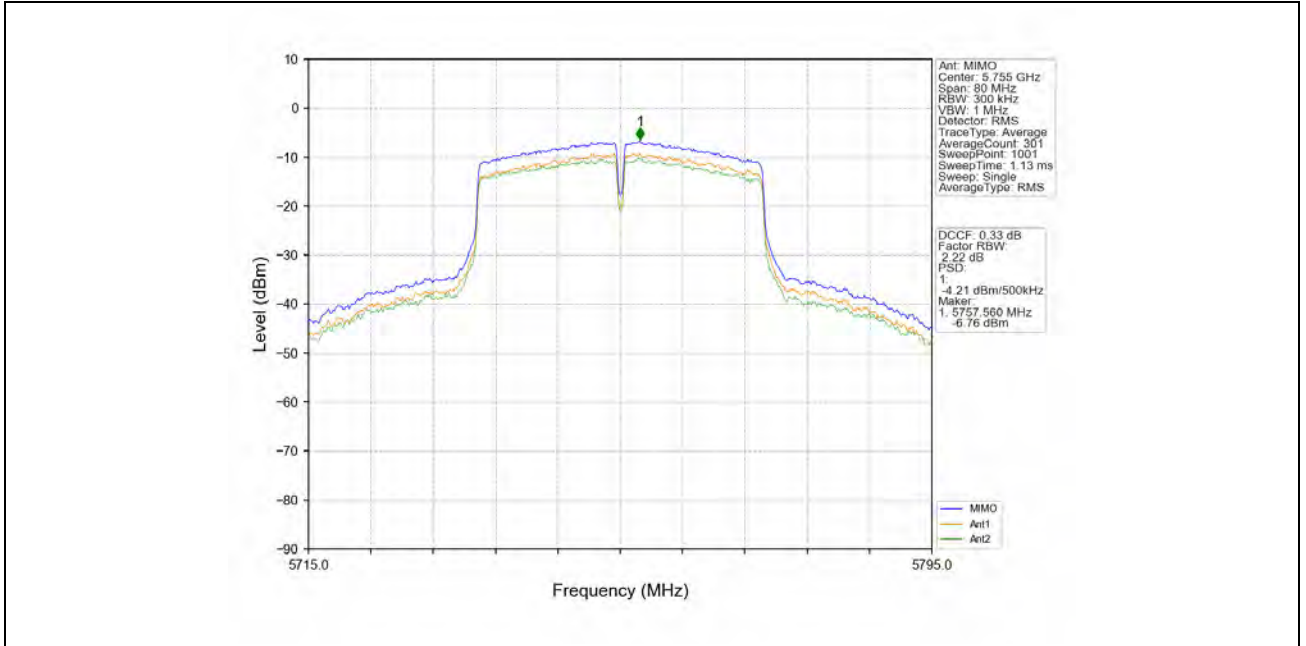


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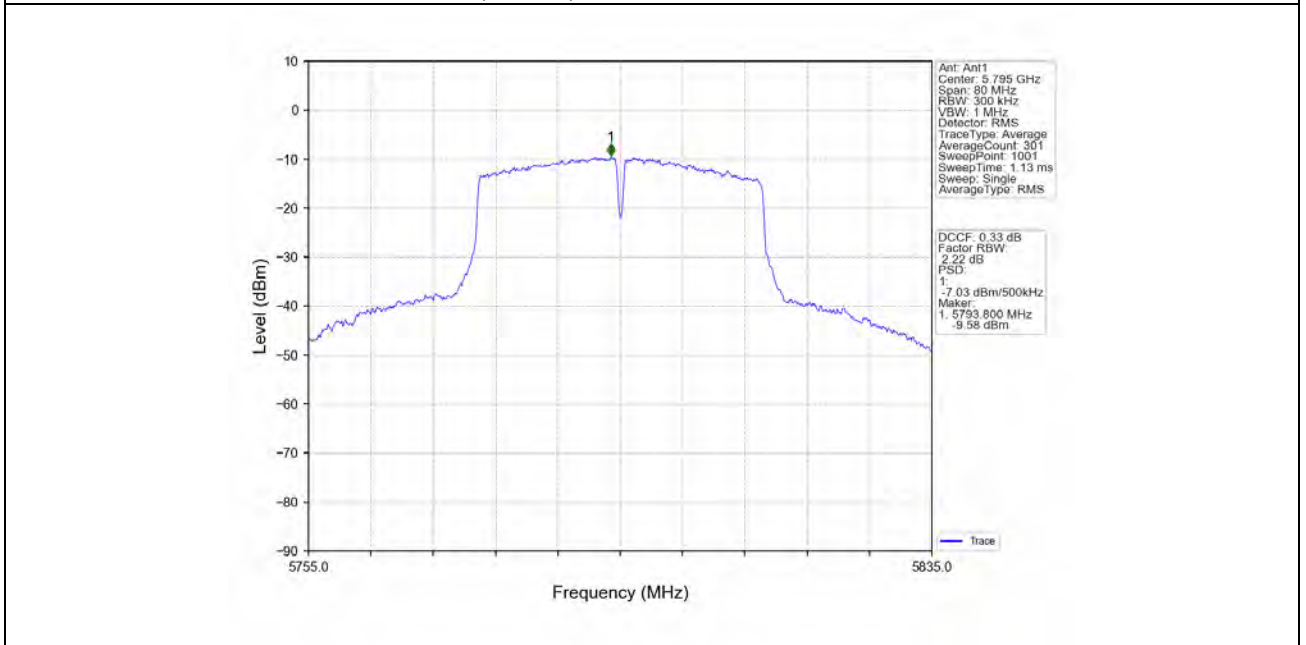
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802.11ac(VHT40)_HCH_5795MHz_Ant3_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant4_NTNV

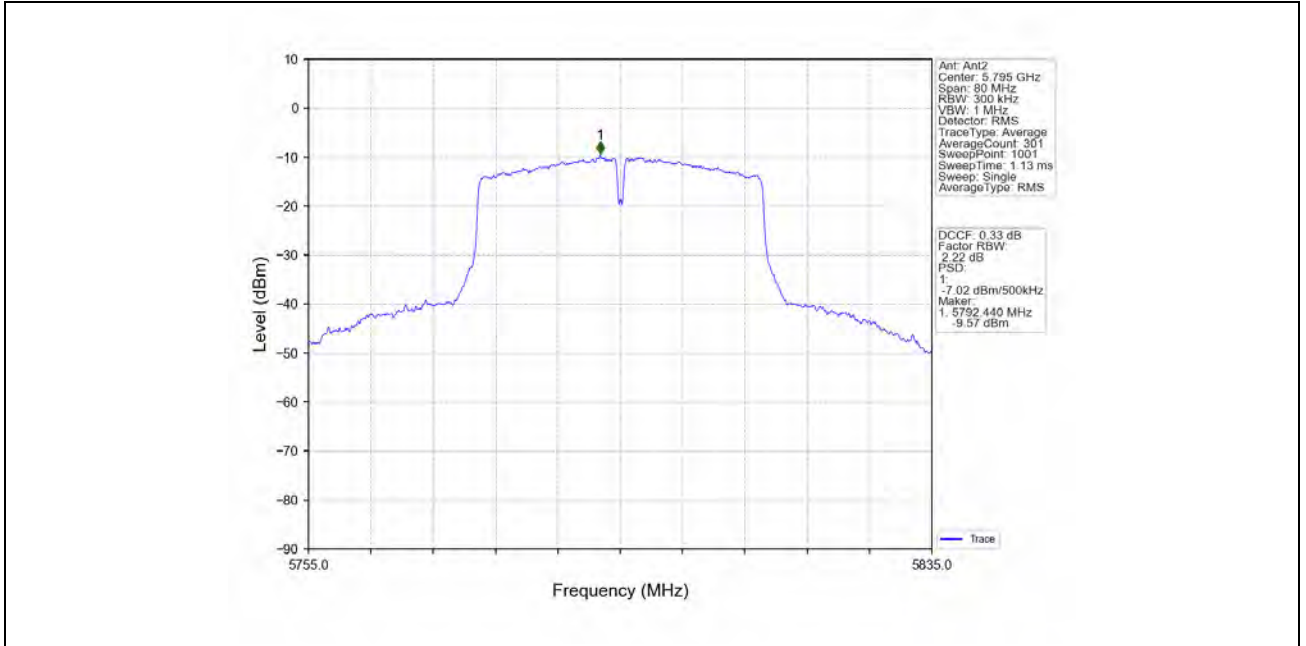


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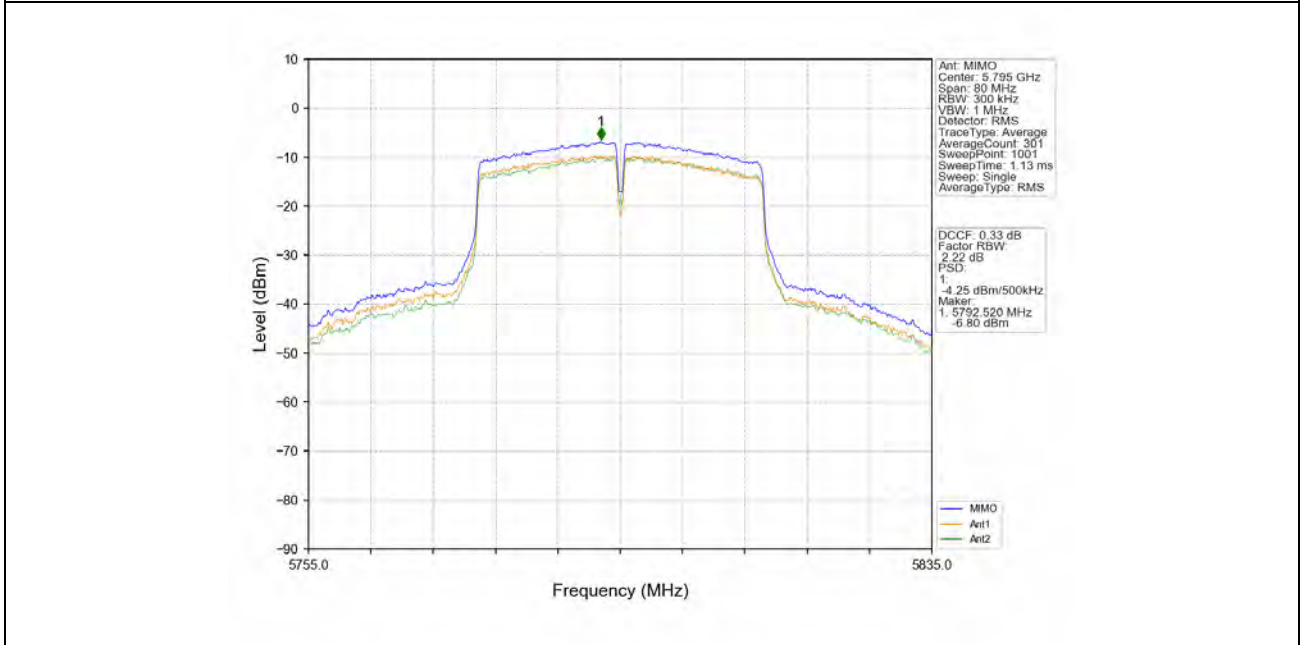
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802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV

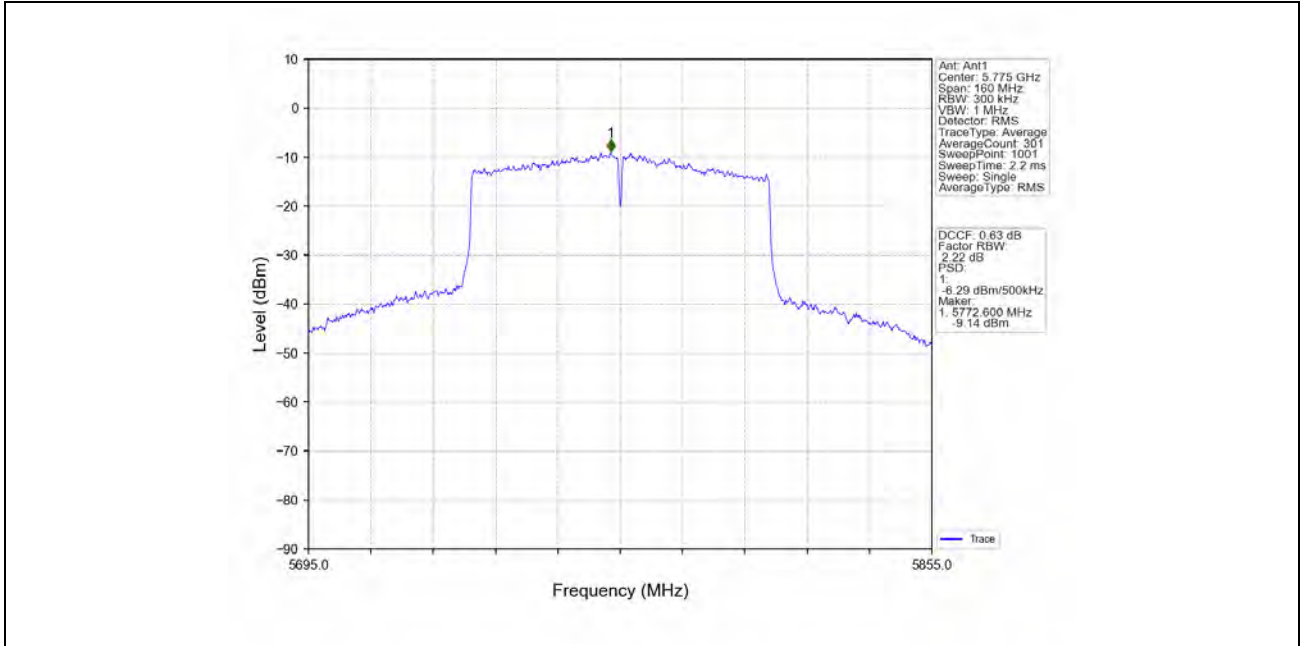


802.11ac(VHT80)_MCH_5775MHz_Ant3_NTNV

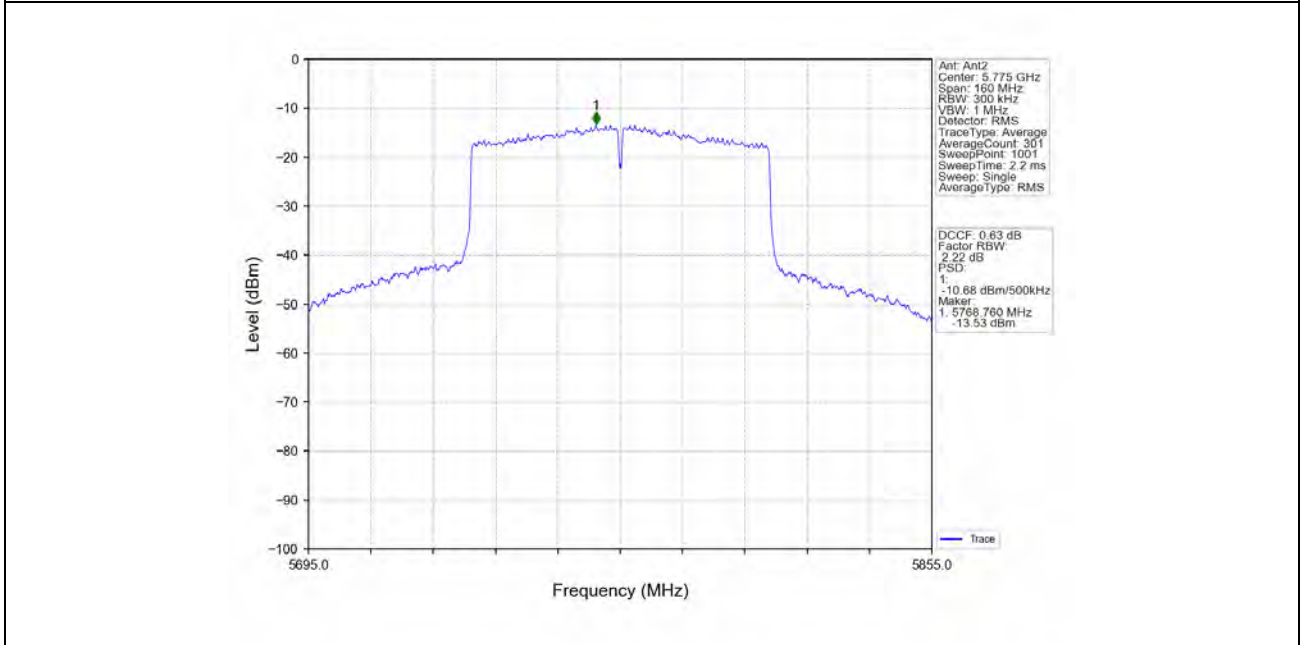


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802.11ac(VHT80)_MCH_5775MHz_Ant4_NTNV

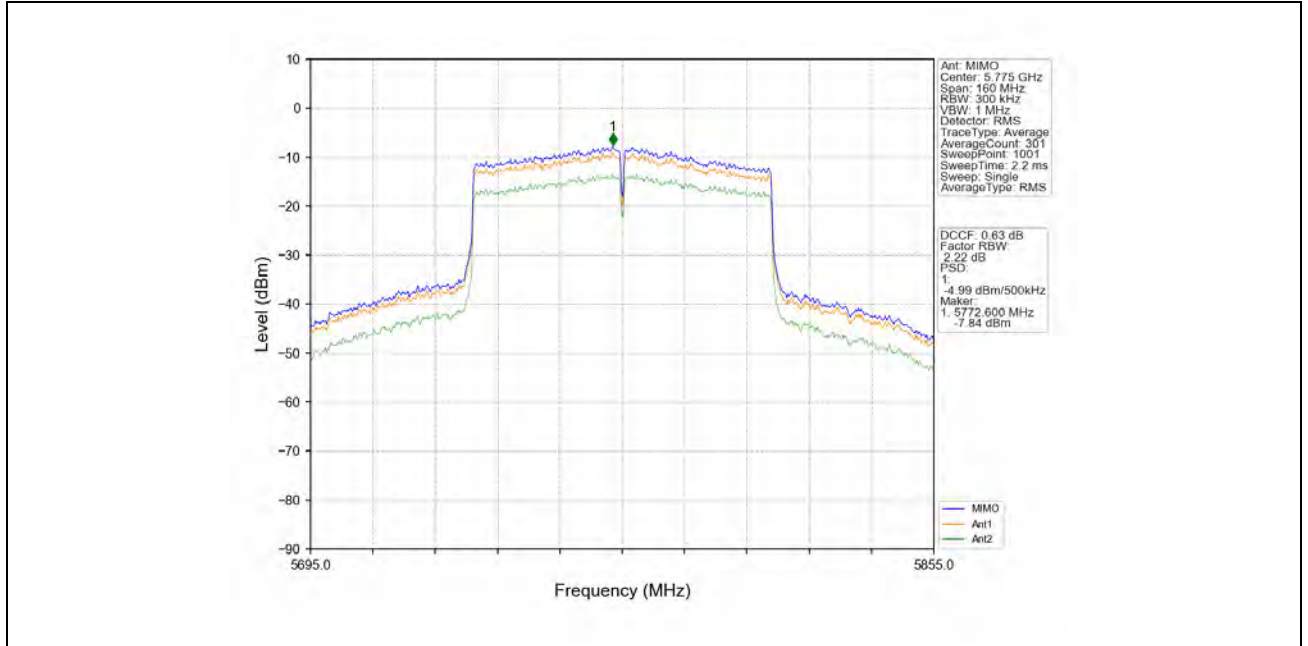


802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant3

5.1.1 Test Result

Ant3								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict	
802.11a	SISO	5180	20	102	5180.000	5150 to 5250	Pass	
				120	5179.900	5150 to 5250	Pass	
				138	5179.960	5150 to 5250	Pass	
			-30	120	5179.920	5150 to 5250	Pass	
				-20	120	5179.940	5150 to 5250	Pass
					120	5179.980	5150 to 5250	Pass
			0	120	5179.880	5150 to 5250	Pass	
				120	5179.960	5150 to 5250	Pass	
			30	120	5179.940	5150 to 5250	Pass	
			40	120	5179.980	5150 to 5250	Pass	
		50	120	5179.920	5150 to 5250	Pass		
		5200	20	102	5200.020	5150 to 5250	Pass	
				120	5199.940	5150 to 5250	Pass	
				138	5199.920	5150 to 5250	Pass	
			-30	120	5199.940	5150 to 5250	Pass	
				-20	120	5199.980	5150 to 5250	Pass
					120	5200.000	5150 to 5250	Pass
			0	120	5199.980	5150 to 5250	Pass	
				120	5199.920	5150 to 5250	Pass	
			30	120	5200.000	5150 to 5250	Pass	
			40	120	5199.960	5150 to 5250	Pass	
		50	120	5200.020	5150 to 5250	Pass		
		5240	20	102	5239.980	5150 to 5250	Pass	
				120	5239.920	5150 to 5250	Pass	
				138	5239.960	5150 to 5250	Pass	
			-30	120	5240.000	5150 to 5250	Pass	
				120	5239.980	5150 to 5250	Pass	
			-10	120	5239.960	5150 to 5250	Pass	
				120	5239.980	5150 to 5250	Pass	
			10	120	5239.960	5150 to 5250	Pass	



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			30	120	5240.000	5150 to 5250	Pass		
			40	120	5239.960	5150 to 5250	Pass		
			50	120	5239.940	5150 to 5250	Pass		
		5745	20	102	5744.920	5725 to 5850	Pass		
				120	5745.000	5725 to 5850	Pass		
				138	5745.040	5725 to 5850	Pass		
			-30	120	5744.980	5725 to 5850	Pass		
			-20	120	5745.020	5725 to 5850	Pass		
			-10	120	5744.940	5725 to 5850	Pass		
			0	120	5745.020	5725 to 5850	Pass		
			10	120	5744.960	5725 to 5850	Pass		
			30	120	5745.000	5725 to 5850	Pass		
			40	120	5744.920	5725 to 5850	Pass		
			50	120	5744.940	5725 to 5850	Pass		
		5785	20	102	5784.920	5725 to 5850	Pass		
				120	5784.940	5725 to 5850	Pass		
				138	5784.940	5725 to 5850	Pass		
			-30	120	5784.960	5725 to 5850	Pass		
			-20	120	5784.960	5725 to 5850	Pass		
			-10	120	5784.920	5725 to 5850	Pass		
			0	120	5784.940	5725 to 5850	Pass		
			10	120	5785.000	5725 to 5850	Pass		
			30	120	5784.880	5725 to 5850	Pass		
			40	120	5784.960	5725 to 5850	Pass		
			50	120	5784.940	5725 to 5850	Pass		
		5825	20	102	5824.920	5725 to 5850	Pass		
				120	5824.960	5725 to 5850	Pass		
				138	5824.900	5725 to 5850	Pass		
			-30	120	5824.960	5725 to 5850	Pass		
			-20	120	5824.980	5725 to 5850	Pass		
			-10	120	5824.980	5725 to 5850	Pass		
			0	120	5824.980	5725 to 5850	Pass		
			10	120	5825.000	5725 to 5850	Pass		
			30	120	5824.940	5725 to 5850	Pass		
			40	120	5824.920	5725 to 5850	Pass		
			50	120	5824.960	5725 to 5850	Pass		
		802.11n (HT20)	MIMO	5180	20	102	5180.020	5150 to 5250	Pass
					120	5180.040	5150 to 5250	Pass	
					138	5180.080	5150 to 5250	Pass	



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			-30	120	5180.080	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5179.980	5150 to 5250	Pass
			0	120	5180.060	5150 to 5250	Pass
			10	120	5179.980	5150 to 5250	Pass
			30	120	5180.000	5150 to 5250	Pass
			40	120	5180.080	5150 to 5250	Pass
			50	120	5180.040	5150 to 5250	Pass
		5200	20	102	5200.080	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.080	5150 to 5250	Pass
			-30	120	5200.040	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
			-10	120	5200.060	5150 to 5250	Pass
			0	120	5200.060	5150 to 5250	Pass
			10	120	5200.120	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5200.040	5150 to 5250	Pass
		50	120	5200.100	5150 to 5250	Pass	
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.100	5150 to 5250	Pass
			0	120	5240.080	5150 to 5250	Pass
			10	120	5240.080	5150 to 5250	Pass
			30	120	5240.080	5150 to 5250	Pass
			40	120	5240.080	5150 to 5250	Pass
		50	120	5240.000	5150 to 5250	Pass	
		5745	20	102	5745.040	5725 to 5850	Pass
				120	5745.020	5725 to 5850	Pass
				138	5745.060	5725 to 5850	Pass
			-30	120	5745.040	5725 to 5850	Pass
			-20	120	5745.040	5725 to 5850	Pass
			-10	120	5745.020	5725 to 5850	Pass
			0	120	5745.040	5725 to 5850	Pass
			10	120	5745.020	5725 to 5850	Pass
			30	120	5745.080	5725 to 5850	Pass



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		5785	40	120	5745.040	5725 to 5850	Pass		
			50	120	5745.060	5725 to 5850	Pass		
			20	102	5785.020	5725 to 5850	Pass		
				120	5785.000	5725 to 5850	Pass		
				138	5785.020	5725 to 5850	Pass		
			-30	120	5784.980	5725 to 5850	Pass		
			-20	120	5784.940	5725 to 5850	Pass		
			-10	120	5785.040	5725 to 5850	Pass		
			0	120	5784.980	5725 to 5850	Pass		
			10	120	5785.000	5725 to 5850	Pass		
			30	120	5785.020	5725 to 5850	Pass		
			40	120	5784.940	5725 to 5850	Pass		
			50	120	5785.020	5725 to 5850	Pass		
			5825	20	102	5825.040	5725 to 5850	Pass	
		120			5825.040	5725 to 5850	Pass		
		138			5825.000	5725 to 5850	Pass		
		-30		120	5825.000	5725 to 5850	Pass		
		-20		120	5825.080	5725 to 5850	Pass		
		-10		120	5825.040	5725 to 5850	Pass		
		0		120	5825.000	5725 to 5850	Pass		
		10		120	5825.040	5725 to 5850	Pass		
		30		120	5825.000	5725 to 5850	Pass		
		40		120	5825.080	5725 to 5850	Pass		
		50		120	5825.000	5725 to 5850	Pass		
		802.11n (HT40)		MIMO	5190	20	102	5190.040	5150 to 5250
			120				5190.000	5150 to 5250	Pass
138	5190.040		5150 to 5250				Pass		
-30	120		5190.080			5150 to 5250	Pass		
-20	120		5190.040			5150 to 5250	Pass		
-10	120		5190.040			5150 to 5250	Pass		
0	120		5190.040			5150 to 5250	Pass		
10	120		5190.080			5150 to 5250	Pass		
30	120		5190.000			5150 to 5250	Pass		
40	120		5190.000			5150 to 5250	Pass		
50	120		5190.000		5150 to 5250	Pass			
5230	20		102		5230.040	5150 to 5250	Pass		
			120		5230.040	5150 to 5250	Pass		
			138		5230.040	5150 to 5250	Pass		
		-30	120	5230.080	5150 to 5250	Pass			



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			-20	120	5230.040	5150 to 5250	Pass		
			-10	120	5230.040	5150 to 5250	Pass		
			0	120	5230.040	5150 to 5250	Pass		
			10	120	5230.080	5150 to 5250	Pass		
			30	120	5230.080	5150 to 5250	Pass		
			40	120	5230.040	5150 to 5250	Pass		
			50	120	5230.080	5150 to 5250	Pass		
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				120	5755.080	5725 to 5850	Pass		
				138	5755.040	5725 to 5850	Pass		
			-30	120	5755.080	5725 to 5850	Pass		
			-20	120	5755.040	5725 to 5850	Pass		
			-10	120	5755.080	5725 to 5850	Pass		
			0	120	5755.080	5725 to 5850	Pass		
			10	120	5755.040	5725 to 5850	Pass		
			30	120	5755.040	5725 to 5850	Pass		
			40	120	5755.000	5725 to 5850	Pass		
			50	120	5755.040	5725 to 5850	Pass		
		5795	20	102	5795.040	5725 to 5850	Pass		
				120	5794.920	5725 to 5850	Pass		
				138	5795.080	5725 to 5850	Pass		
			-30	120	5795.000	5725 to 5850	Pass		
			-20	120	5795.000	5725 to 5850	Pass		
			-10	120	5795.040	5725 to 5850	Pass		
			0	120	5795.040	5725 to 5850	Pass		
			10	120	5795.000	5725 to 5850	Pass		
			30	120	5795.040	5725 to 5850	Pass		
			40	120	5795.040	5725 to 5850	Pass		
			50	120	5795.040	5725 to 5850	Pass		
		802.11ac (VHT20)	MIMO	5180	20	102	5180.040	5150 to 5250	Pass
						120	5180.080	5150 to 5250	Pass
						138	5180.040	5150 to 5250	Pass
					-30	120	5180.040	5150 to 5250	Pass
-20	120				5180.060	5150 to 5250	Pass		
-10	120				5180.020	5150 to 5250	Pass		
0	120				5180.000	5150 to 5250	Pass		
10	120				5180.020	5150 to 5250	Pass		
30	120				5180.020	5150 to 5250	Pass		
40	120				5180.040	5150 to 5250	Pass		



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Compliance Certification Services (Kunshan) Inc.

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		5200	50	120	5180.020	5150 to 5250	Pass
			20	102	5200.100	5150 to 5250	Pass
				120	5200.080	5150 to 5250	Pass
				138	5200.040	5150 to 5250	Pass
				120	5200.060	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.020	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass
			10	120	5200.080	5150 to 5250	Pass
			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.080	5150 to 5250	Pass
		50	120	5200.080	5150 to 5250	Pass	
		5240	20	102	5240.060	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
			-30	120	5240.000	5150 to 5250	Pass
			-20	120	5240.060	5150 to 5250	Pass
			-10	120	5240.000	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5240.000	5150 to 5250	Pass
			40	120	5240.080	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
			5745	20	102	5745.040	5725 to 5850
		120			5745.040	5725 to 5850	Pass
		138			5745.020	5725 to 5850	Pass
		-30		120	5745.100	5725 to 5850	Pass
		-20		120	5745.060	5725 to 5850	Pass
		-10		120	5745.040	5725 to 5850	Pass
		0		120	5745.040	5725 to 5850	Pass
		10		120	5745.040	5725 to 5850	Pass
		30		120	5745.080	5725 to 5850	Pass
		40		120	5745.020	5725 to 5850	Pass
		50		120	5745.060	5725 to 5850	Pass
		5785		20	102	5785.000	5725 to 5850
			120		5785.020	5725 to 5850	Pass
			138		5785.020	5725 to 5850	Pass
			-30	120	5785.000	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass



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		5825	-10	120	5785.040	5725 to 5850	Pass			
			0	120	5784.960	5725 to 5850	Pass			
			10	120	5784.980	5725 to 5850	Pass			
			30	120	5785.040	5725 to 5850	Pass			
			40	120	5784.960	5725 to 5850	Pass			
			50	120	5785.020	5725 to 5850	Pass			
			20	102	5825.020	5725 to 5850	Pass			
				120	5825.040	5725 to 5850	Pass			
				138	5825.060	5725 to 5850	Pass			
			-30	120	5825.040	5725 to 5850	Pass			
			-20	120	5825.040	5725 to 5850	Pass			
			-10	120	5824.980	5725 to 5850	Pass			
			0	120	5825.060	5725 to 5850	Pass			
			10	120	5825.060	5725 to 5850	Pass			
			30	120	5825.040	5725 to 5850	Pass			
			40	120	5825.060	5725 to 5850	Pass			
			50	120	5824.980	5725 to 5850	Pass			
			802.11ac (VHT40)	MIMO	5190	20	102	5190.040	5150 to 5250	Pass
							120	5190.080	5150 to 5250	Pass
							138	5190.040	5150 to 5250	Pass
-30	120	5190.040				5150 to 5250	Pass			
-20	120	5190.080				5150 to 5250	Pass			
-10	120	5190.040				5150 to 5250	Pass			
0	120	5190.000				5150 to 5250	Pass			
10	120	5190.040				5150 to 5250	Pass			
30	120	5190.080				5150 to 5250	Pass			
40	120	5190.040				5150 to 5250	Pass			
50	120	5190.080			5150 to 5250	Pass				
5230	20	102			5230.040	5150 to 5250	Pass			
		120			5230.080	5150 to 5250	Pass			
		138			5230.040	5150 to 5250	Pass			
	-30	120			5230.040	5150 to 5250	Pass			
	-20	120			5230.080	5150 to 5250	Pass			
	-10	120			5230.080	5150 to 5250	Pass			
	0	120			5230.080	5150 to 5250	Pass			
	10	120			5230.040	5150 to 5250	Pass			
	30	120			5230.040	5150 to 5250	Pass			
	40	120	5230.080	5150 to 5250	Pass					
50	120	5230.080	5150 to 5250	Pass						



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		5755	20	102	5755.080	5725 to 5850	Pass
				120	5755.040	5725 to 5850	Pass
				138	5755.040	5725 to 5850	Pass
			-30	120	5755.080	5725 to 5850	Pass
			-20	120	5755.040	5725 to 5850	Pass
			-10	120	5755.040	5725 to 5850	Pass
			0	120	5754.960	5725 to 5850	Pass
			10	120	5755.040	5725 to 5850	Pass
			30	120	5755.040	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	5795.040	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	5794.960	5725 to 5850	Pass
			30	120	5795.000	5725 to 5850	Pass
40	120		5795.000	5725 to 5850	Pass		
50	120	5795.000	5725 to 5850	Pass			
802.11ac (VHT80)	MIMO	5210	20	102	5210.075	5150 to 5250	Pass
				120	5210.000	5150 to 5250	Pass
				138	5210.150	5150 to 5250	Pass
			-30	120	5210.075	5150 to 5250	Pass
			-20	120	5210.000	5150 to 5250	Pass
			-10	120	5210.075	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass
			10	120	5210.075	5150 to 5250	Pass
			30	120	5210.150	5150 to 5250	Pass
			40	120	5210.150	5150 to 5250	Pass
		50	120	5210.075	5150 to 5250	Pass	
		5775	20	102	5775.000	5725 to 5850	Pass
				120	5775.075	5725 to 5850	Pass
				138	5775.000	5725 to 5850	Pass
			-30	120	5775.075	5725 to 5850	Pass
			-20	120	5775.075	5725 to 5850	Pass
			-10	120	5775.075	5725 to 5850	Pass



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			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.075	5725 to 5850	Pass
			30	120	5775.000	5725 to 5850	Pass
			40	120	5775.075	5725 to 5850	Pass
			50	120	5775.000	5725 to 5850	Pass

- End of the Report -



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