

Appendix B for SHCR220100002502

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.396	1.494	93.44	0.29	0.03
		5200	1.396	1.495	93.38	0.30	0.03
		5240	1.396	1.495	93.38	0.30	0.03
		5260	1.396	1.494	93.44	0.29	0.03
		5300	1.396	1.495	93.38	0.30	0.03
		5320	1.396	1.495	93.38	0.30	0.03
		5500	1.396	1.495	93.38	0.30	0.03
		5580	1.396	1.495	93.38	0.30	0.03
		5700	1.396	1.495	93.38	0.30	0.03
		5745	1.396	1.495	93.38	0.30	0.03
		5785	1.396	1.495	93.38	0.30	0.03
802.11n (HT20)	MIMO	5180	1.919	2.418	79.36	1.00	0.04
		5200	1.919	2.418	79.36	1.00	0.03
		5240	1.919	2.418	79.36	1.00	0.03
		5260	1.919	2.419	79.33	1.01	0.03
		5300	1.919	2.418	79.36	1.00	0.03
		5320	1.919	2.418	79.36	1.00	0.03
		5500	1.920	2.419	79.37	1.00	0.04
		5580	1.919	2.419	79.33	1.01	0.04
		5700	1.920	2.419	79.37	1.00	0.04
		5745	1.919	2.418	79.36	1.00	0.03
		5785	1.920	2.419	79.37	1.00	0.04
802.11n (HT40)	MIMO	5190	0.128	0.227	56.39	2.49	0.03
		5230	0.128	0.227	56.39	2.49	0.03
		5270	0.100	0.199	50.25	2.99	0.05
		5310	0.100	0.199	50.25	2.99	0.10
		5510	0.100	0.199	50.25	2.99	0.07
		5550	0.128	0.227	56.39	2.49	0.05
		5670	0.128	0.227	56.39	2.49	0.06
		5755	0.128	0.227	56.39	2.49	0.08
802.11ac (VHT20)	MIMO	5180	1.932	2.431	79.47	1.00	0.03
		5200	1.932	2.431	79.47	1.00	0.03
		5240	1.931	2.431	79.43	1.00	0.03
		5260	1.931	2.430	79.47	1.00	0.03
		5300	1.932	2.431	79.47	1.00	0.03
		5320	1.932	2.431	79.47	1.00	0.03
		5500	1.932	2.431	79.47	1.00	0.03
		5580	1.931	2.430	79.47	1.00	0.04
		5700	1.932	2.431	79.47	1.00	0.03

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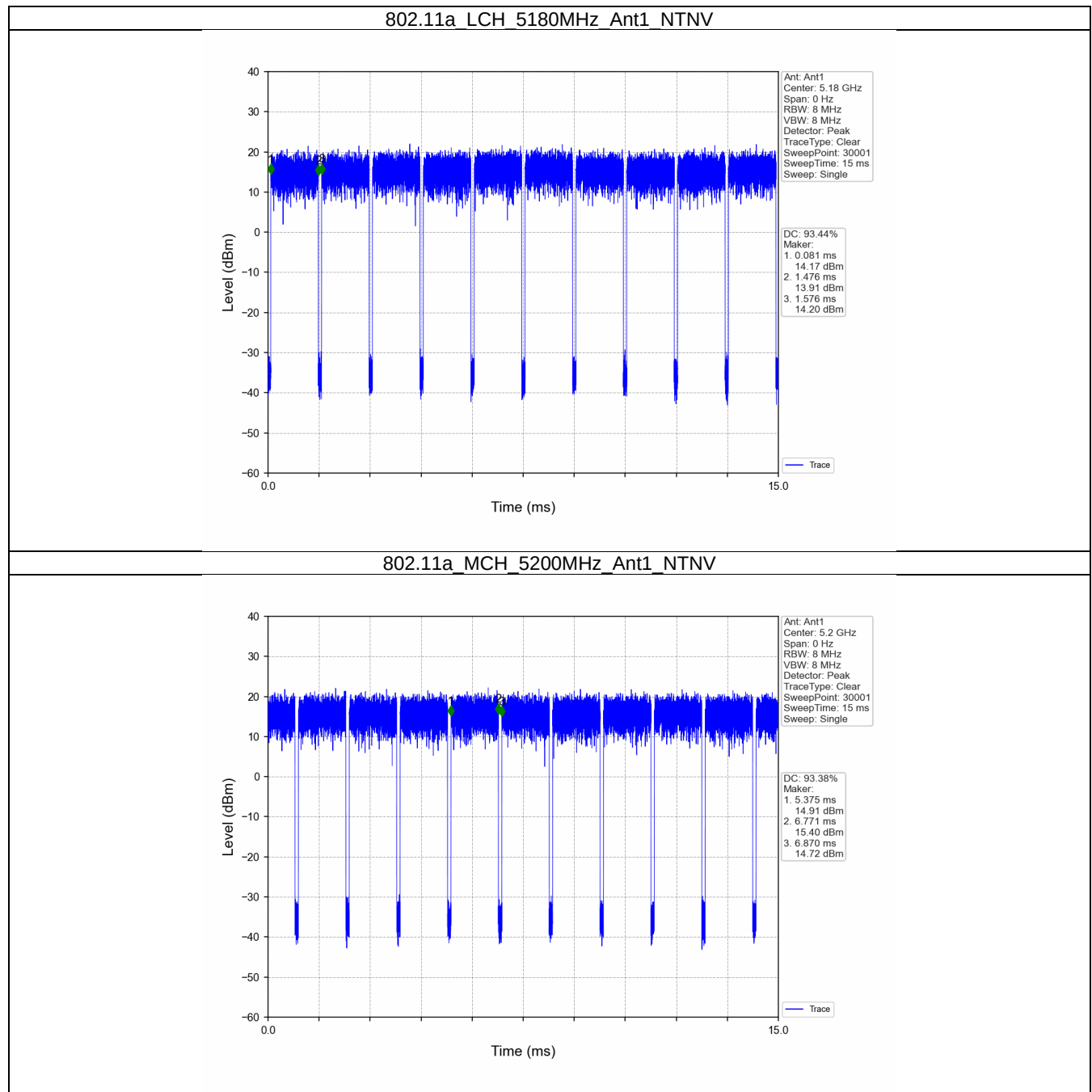
		5745	1.932	2.431	79.47	1.00	0.04
		5785	1.932	2.431	79.47	1.00	0.03
		5825	1.931	2.431	79.43	1.00	0.04
802.11ac (VHT40)	MIMO	5190	1.544	2.043	75.58	1.22	0.04
		5230	1.544	2.043	75.58	1.22	0.03
		5270	1.544	2.043	75.58	1.22	0.00
		5310	1.544	2.043	75.58	1.22	0.00
		5510	1.544	2.044	75.54	1.22	0.03
		5550	1.544	2.044	75.54	1.22	0.03
		5670	1.543	2.043	75.53	1.22	0.00
		5755	1.543	2.043	75.53	1.22	0.00
802.11ac (VHT80)	MIMO	5795	1.544	2.043	75.58	1.22	0.03
		5210	0.460	0.960	47.92	3.20	0.02
		5290	0.460	0.959	47.97	3.19	0.03
		5530	0.460	0.960	47.92	3.20	0.05
		5610	0.460	0.960	47.92	3.20	0.03
		5775	0.460	0.959	47.97	3.19	0.03



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1.1.2 Test Graph



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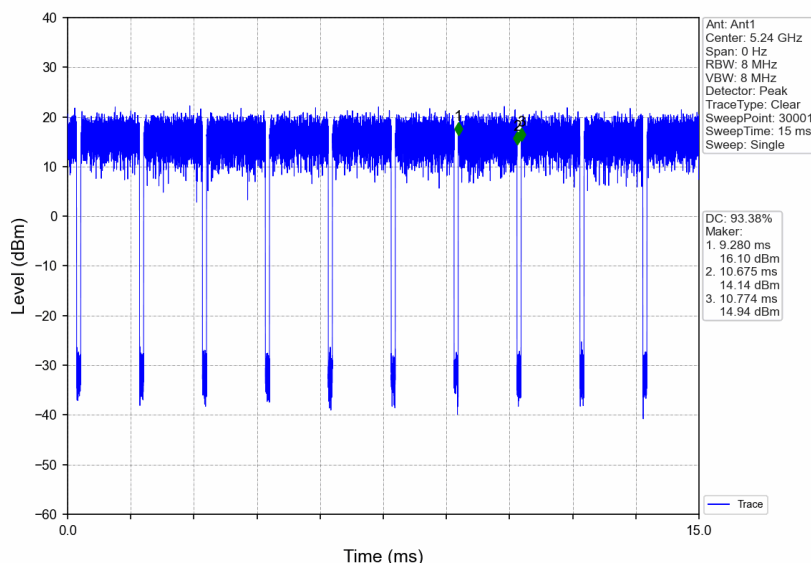
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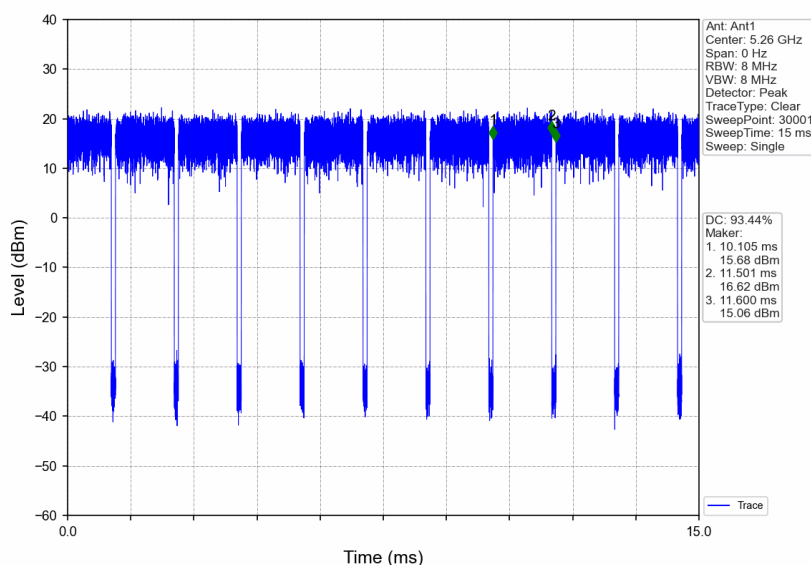
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802.11a_HCH_5240MHz_Ant1_NTNV



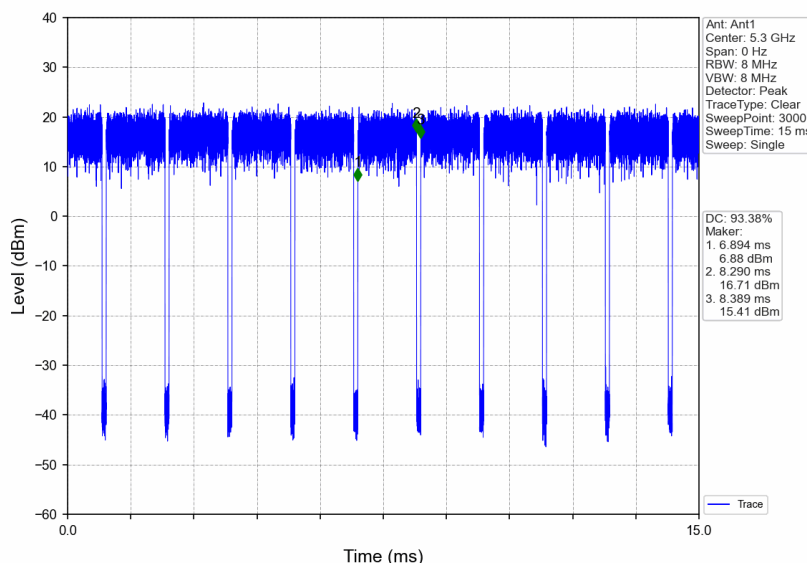
802.11a_LCH_5260MHz_Ant1_NTNV



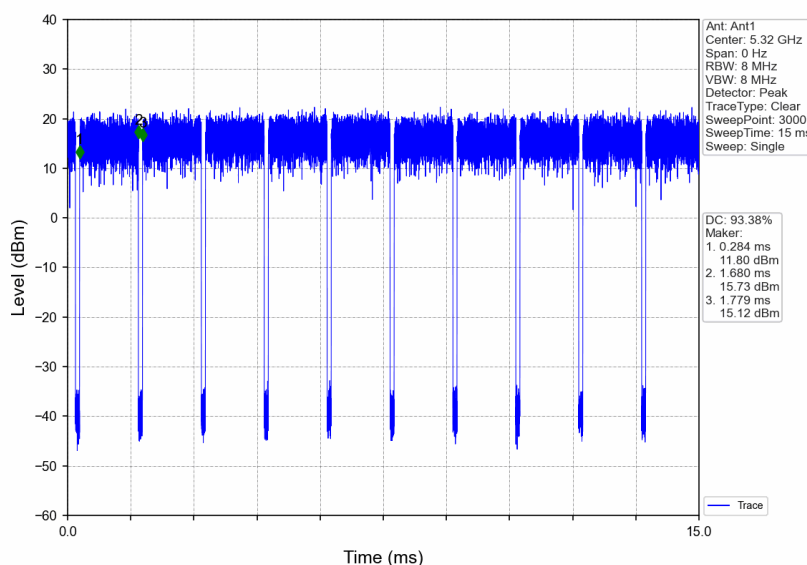
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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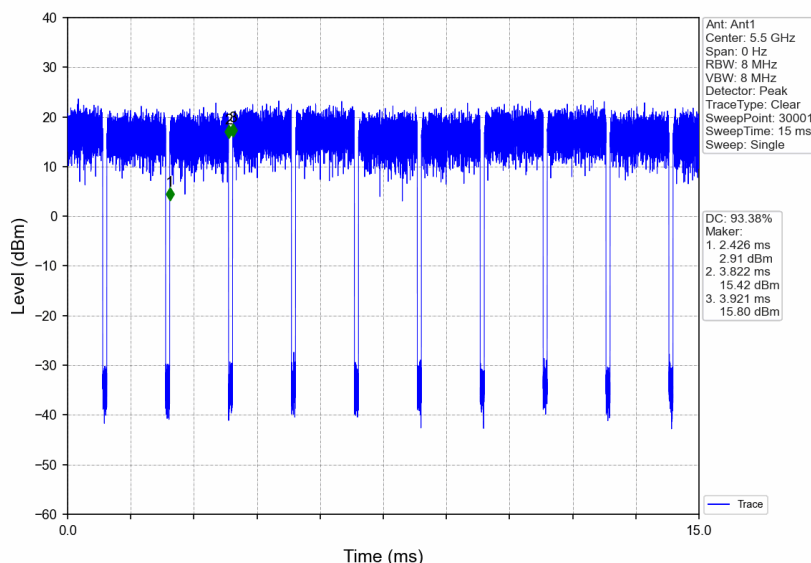
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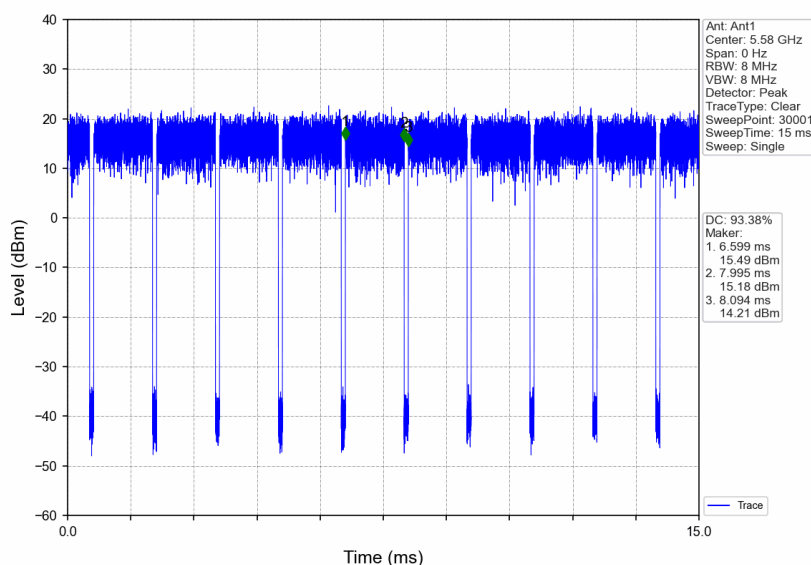
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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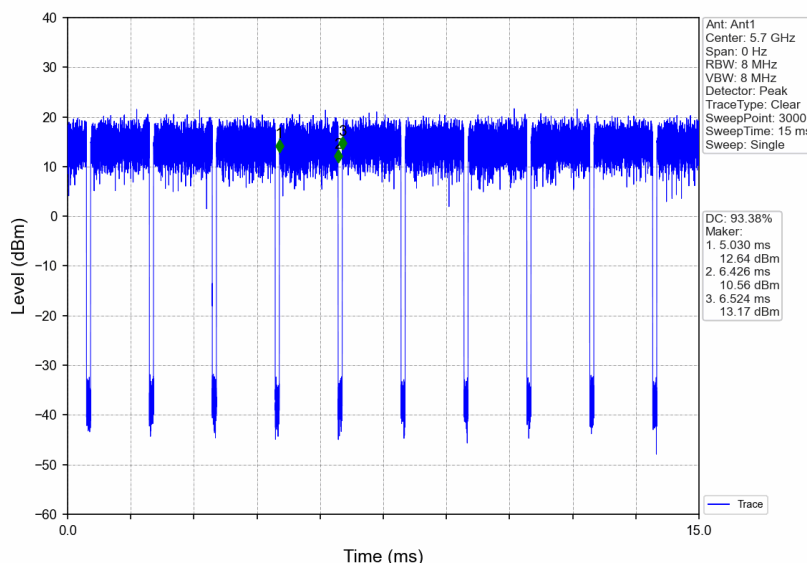
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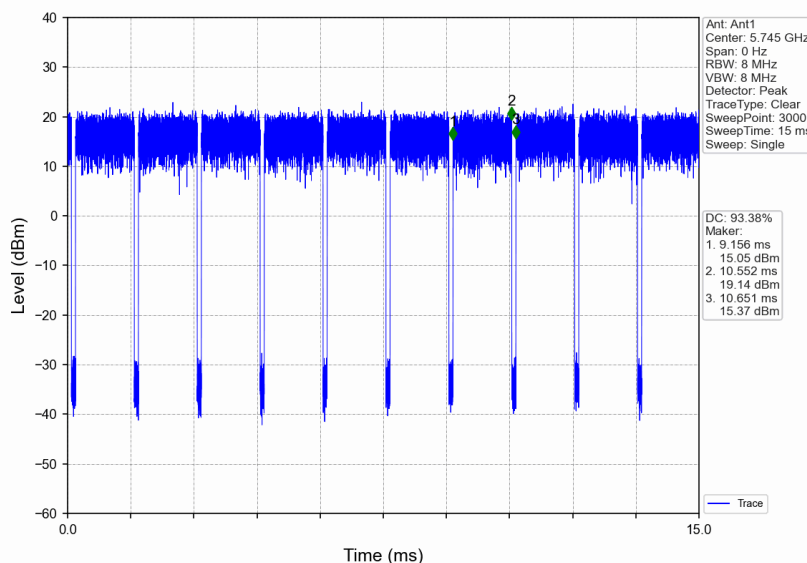
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802.11a_LCH_5745MHz_Ant1_NTNV



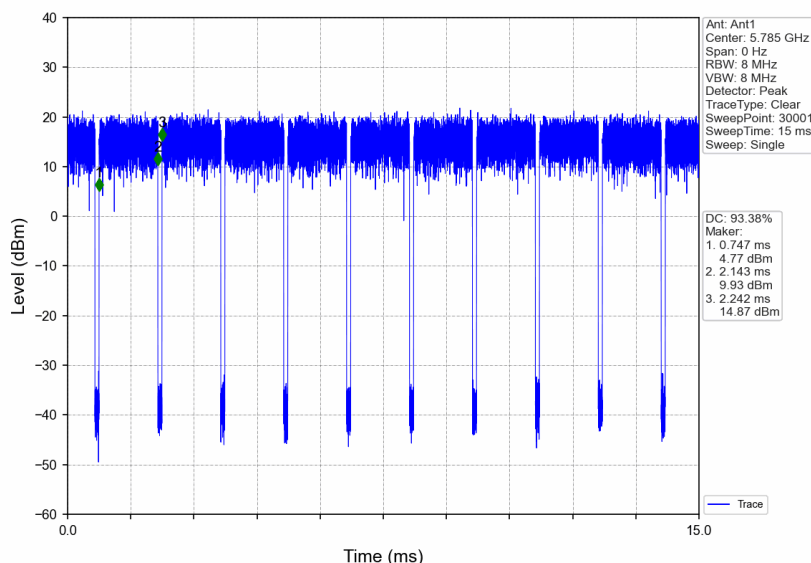
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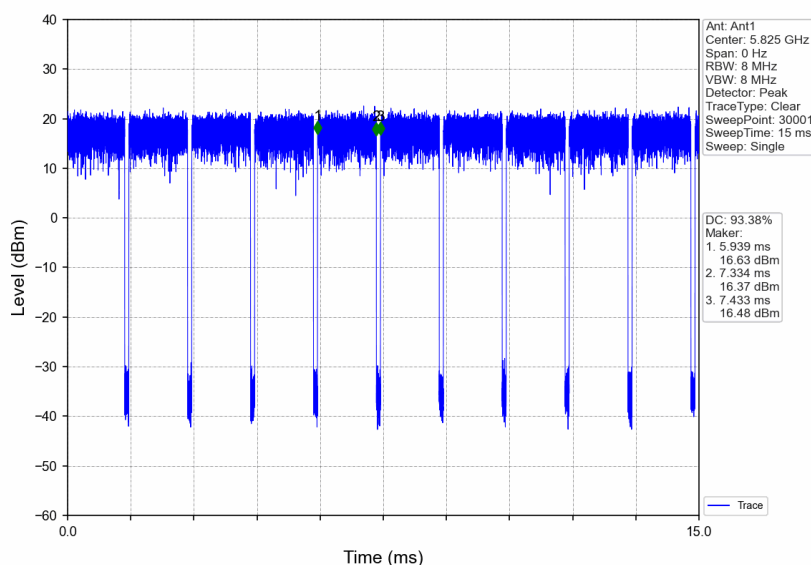
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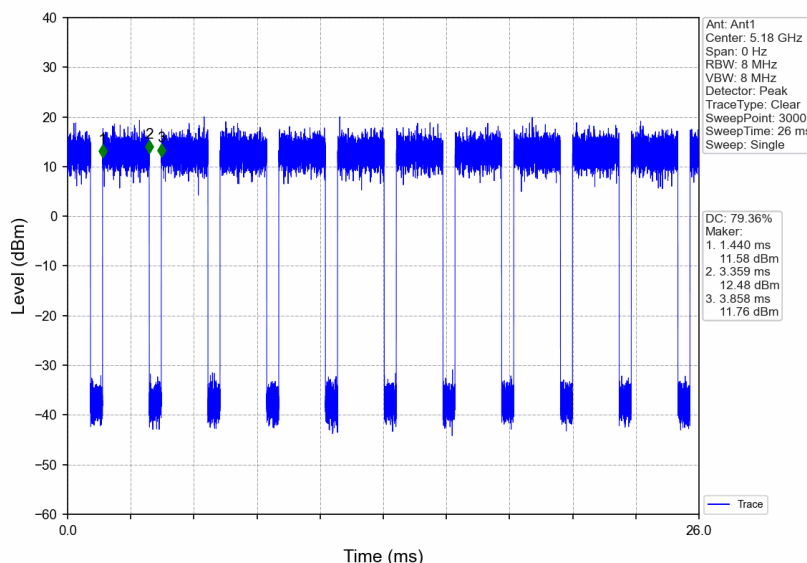
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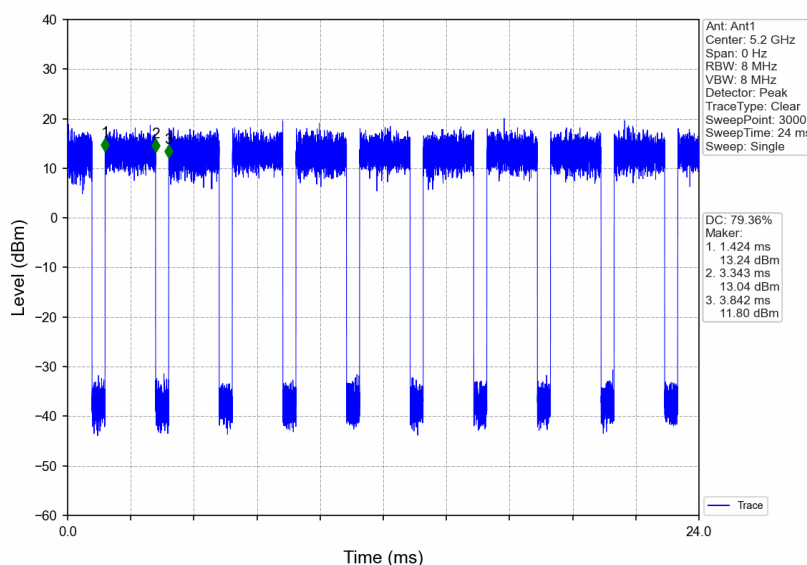
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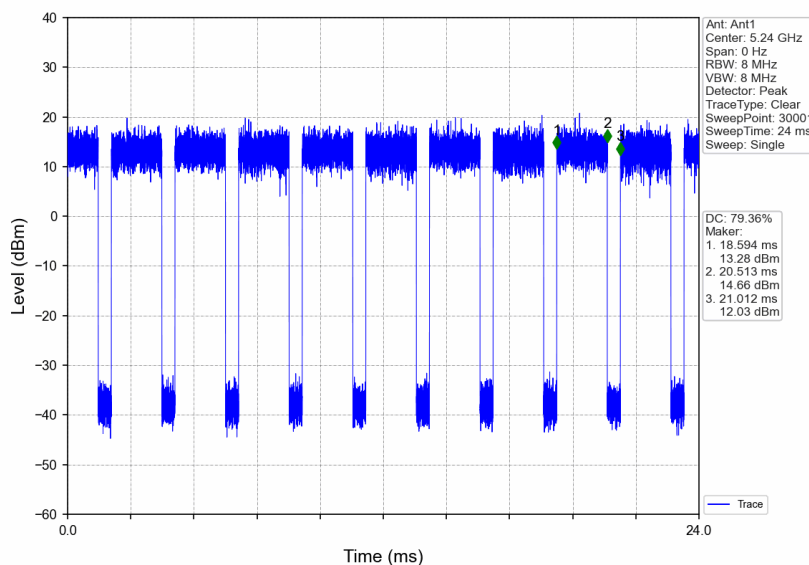
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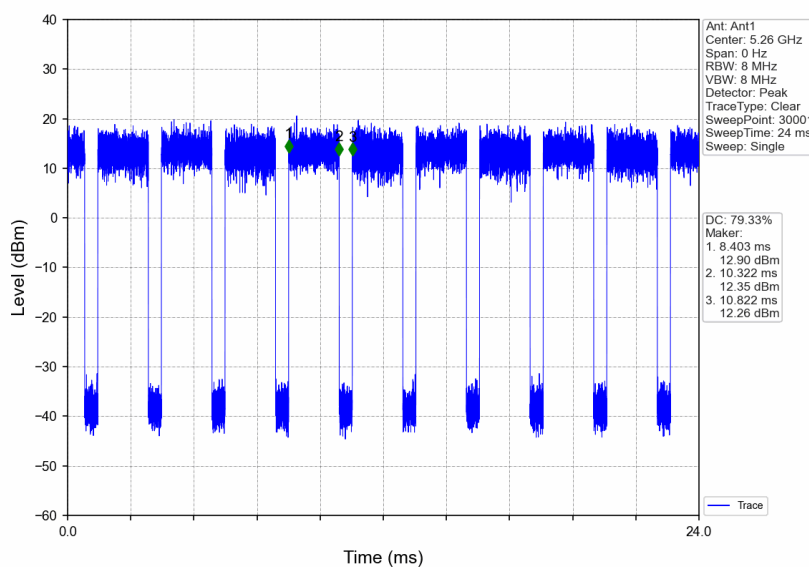
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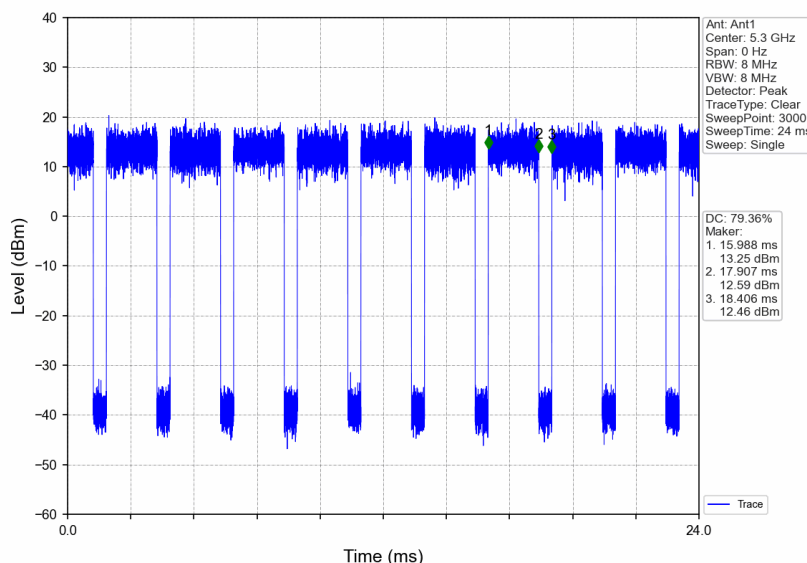
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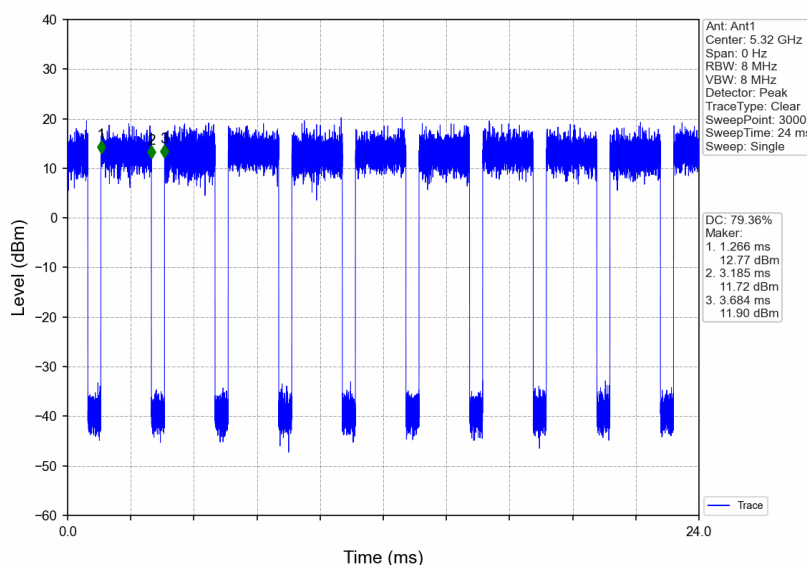
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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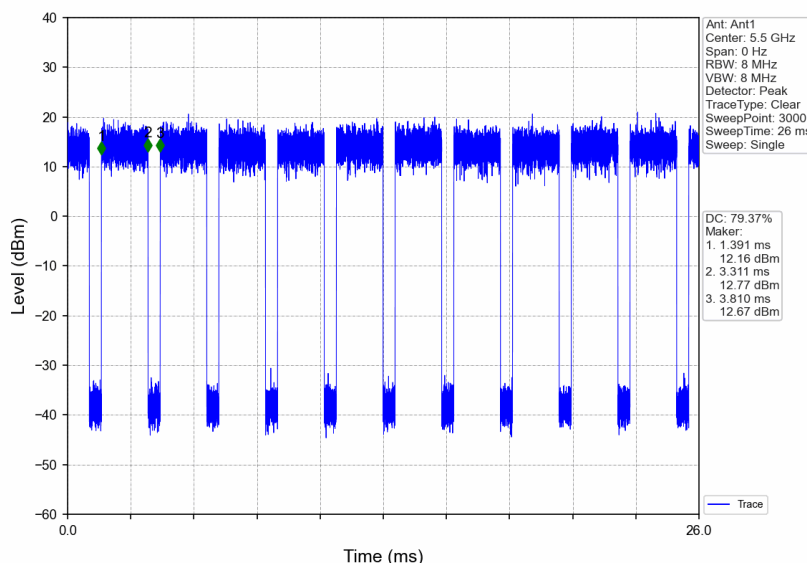
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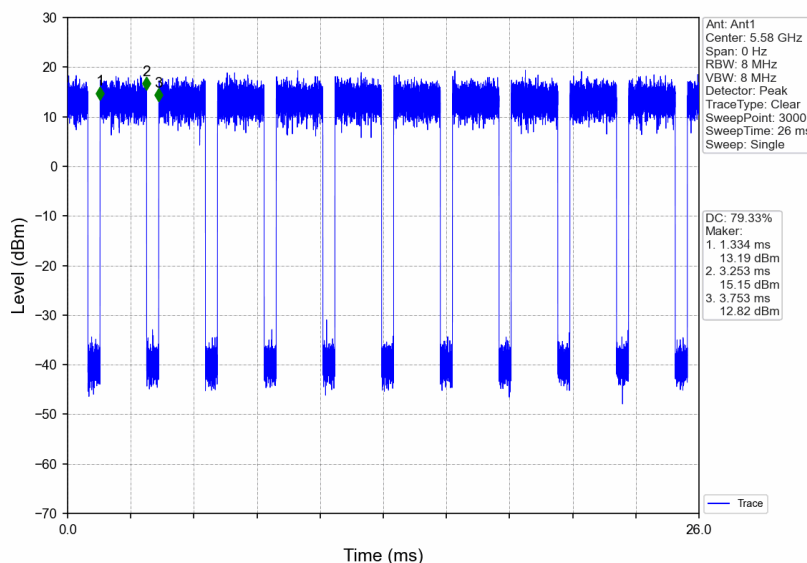
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802.11n(HT20) LCH_5500MHz_Ant1_NTNV



802.11n(HT20) MCH_5580MHz_Ant1_NTNV



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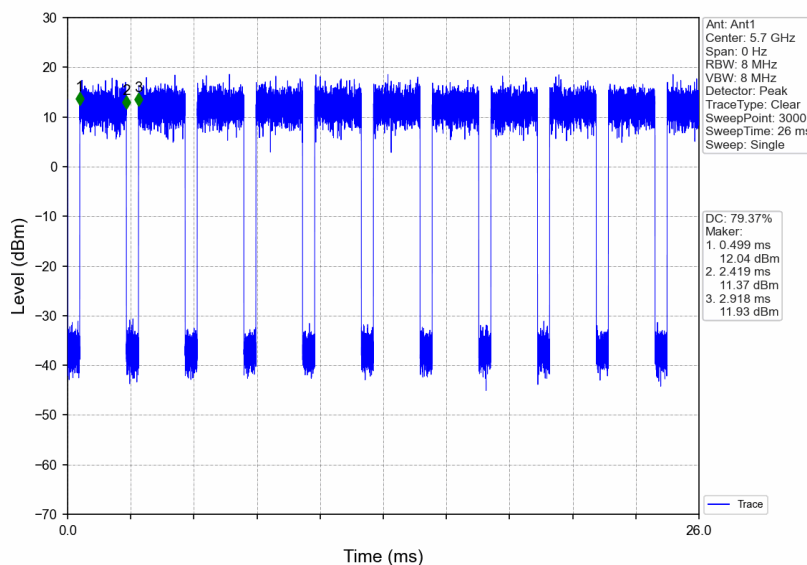
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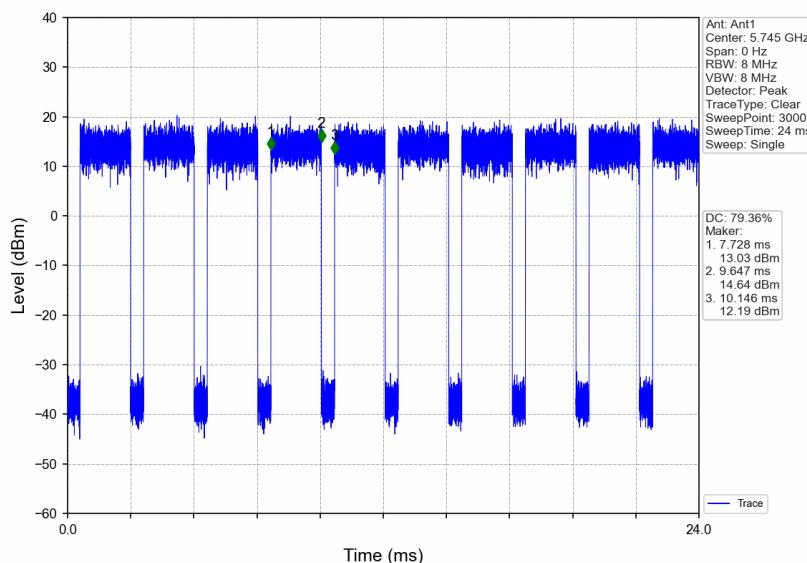
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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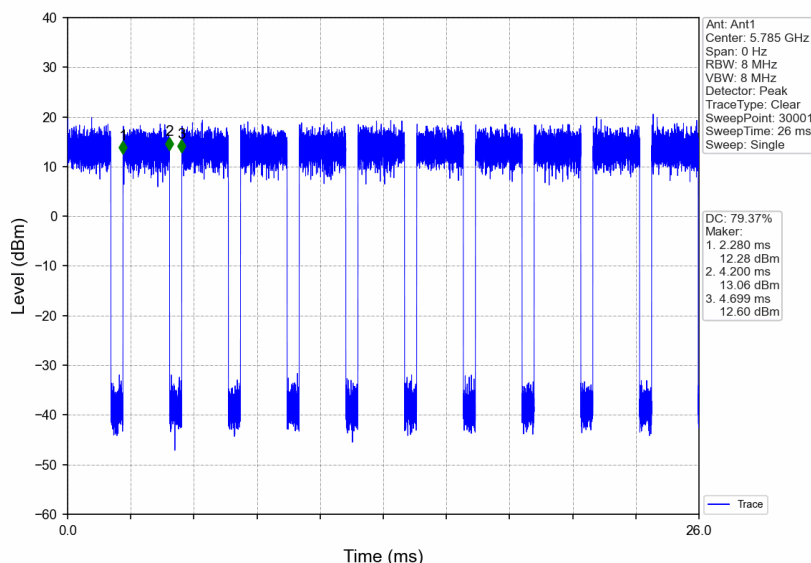
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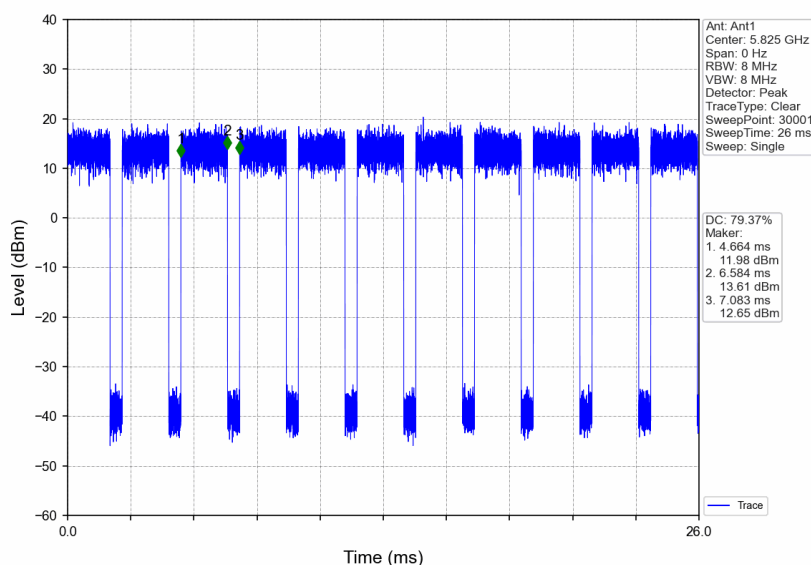
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802.11n(HT20) MCH 5785MHz_Ant1_NTNV



802.11n(HT20) HCH 5825MHz_Ant1_NTNV



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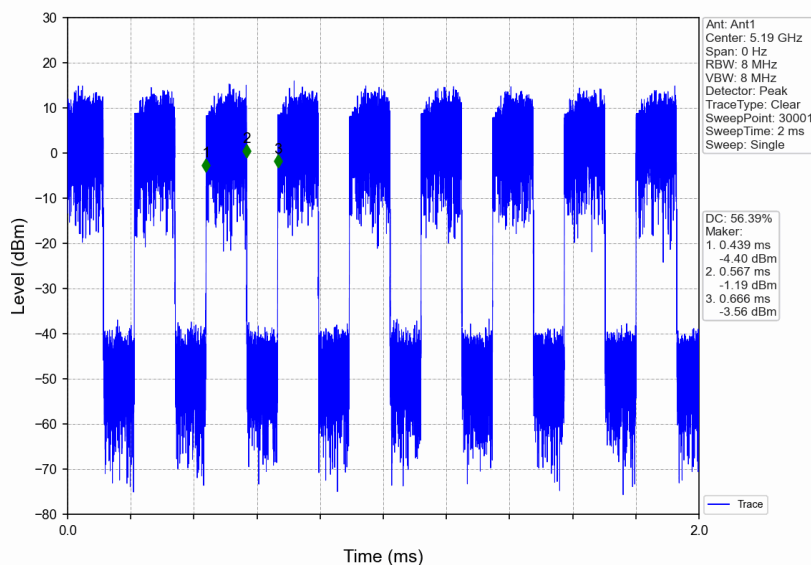
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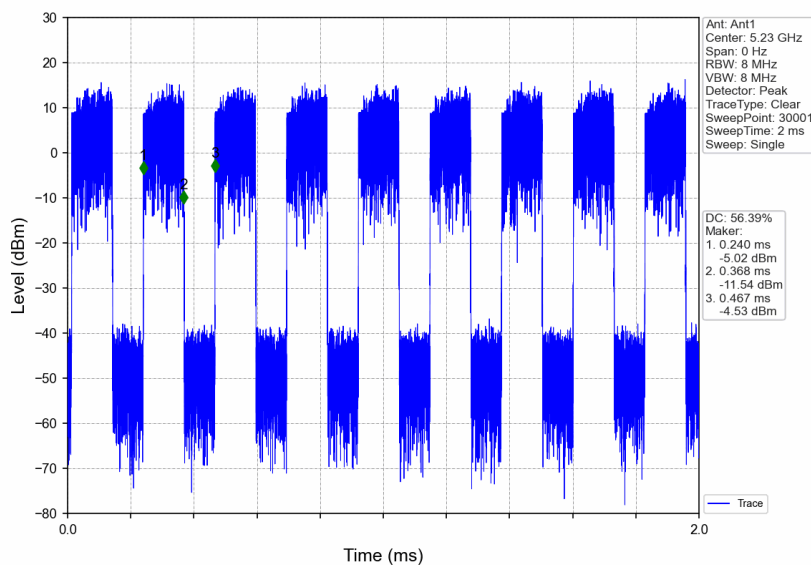
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802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



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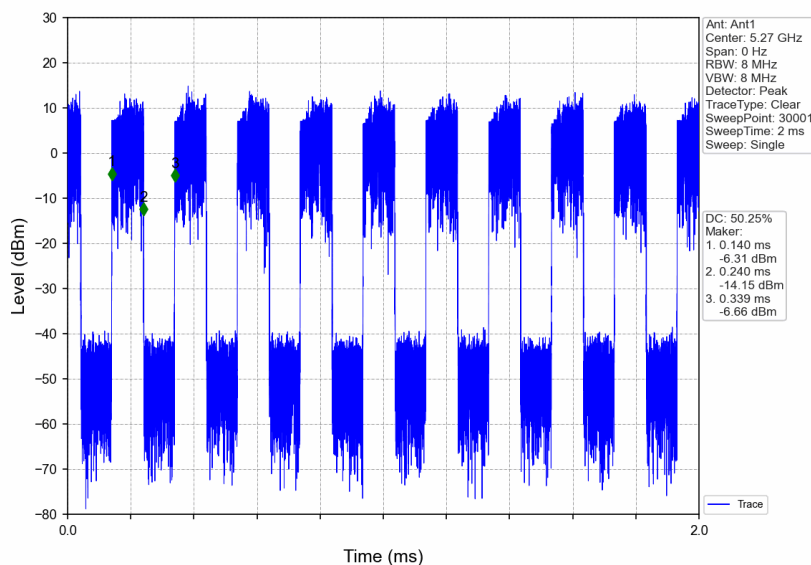
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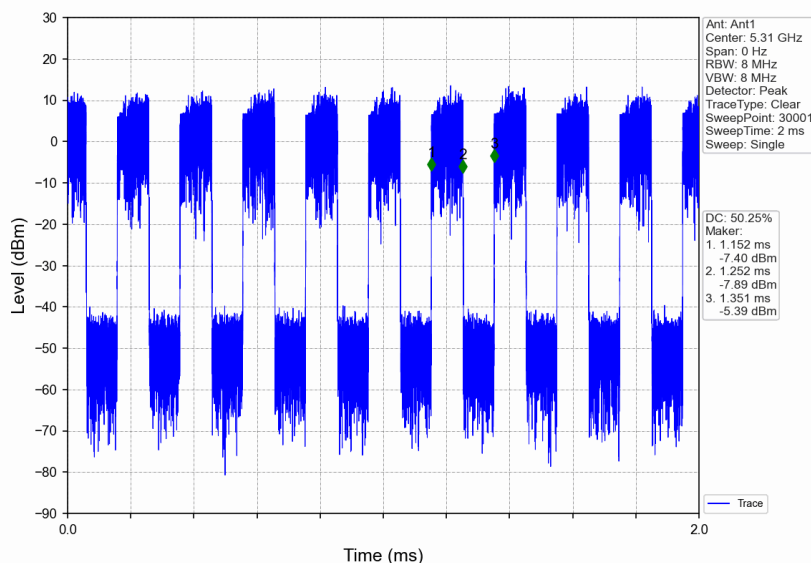
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802.11n(HT40) LCH 5270MHz Ant1 NTN



802.11n(HT40) HCH 5310MHz Ant1 NTN



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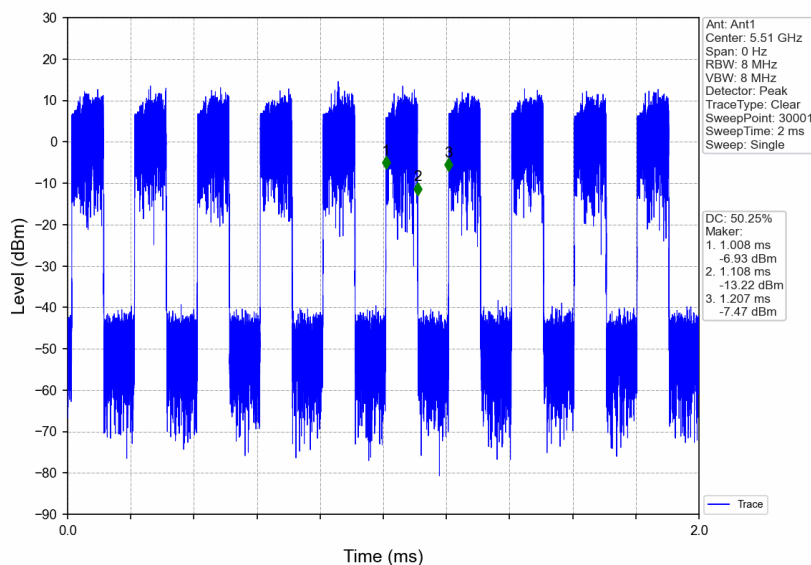
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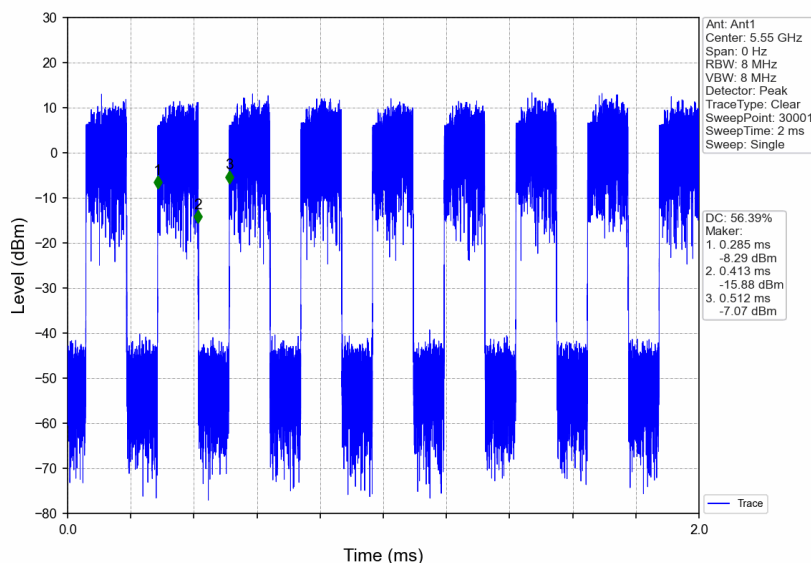
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802.11n(HT40) LCH 5510MHz Ant1 NTN



802.11n(HT40) MCH 5550MHz Ant1 NTN



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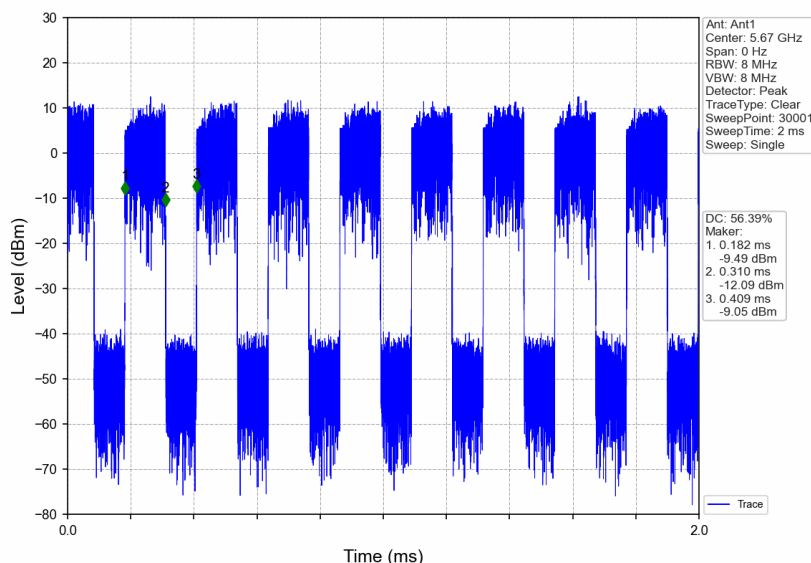
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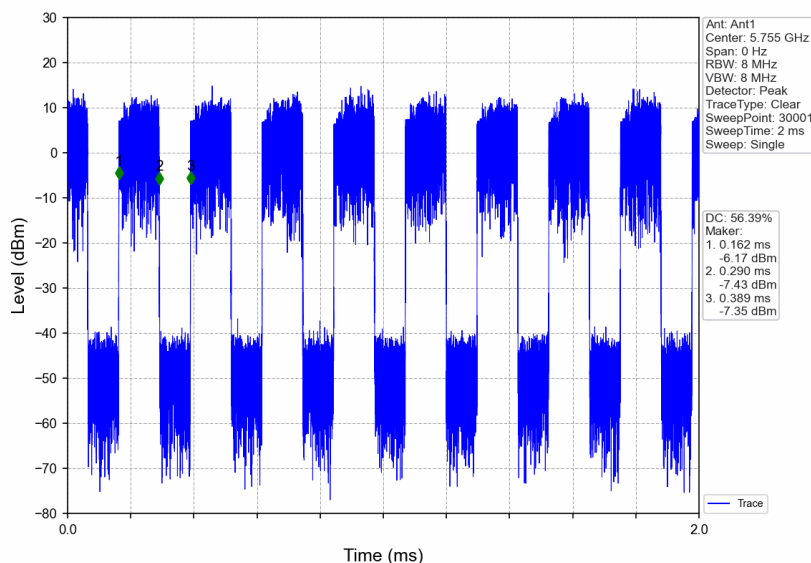
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802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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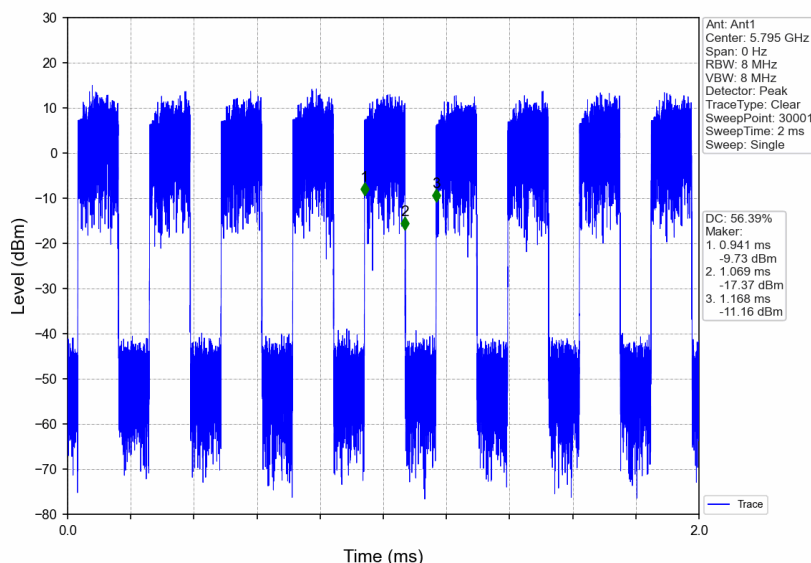
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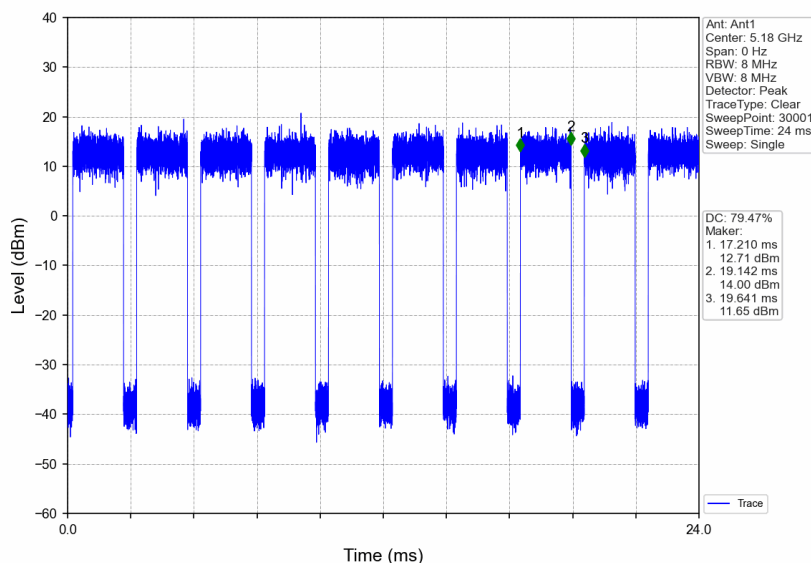
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802.11n(HT40) HCH 5795MHz Ant1 NTNV



802.11ac(VHT20) LCH 5180MHz Ant1 NTNV



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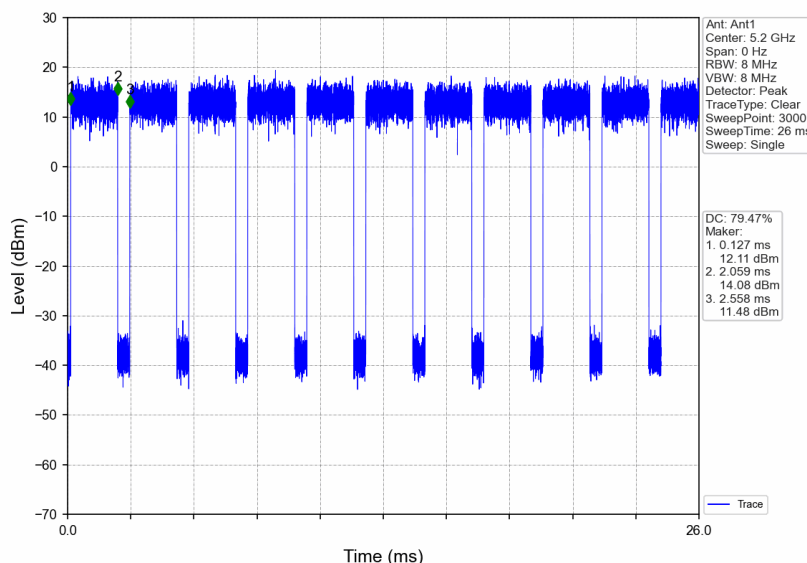
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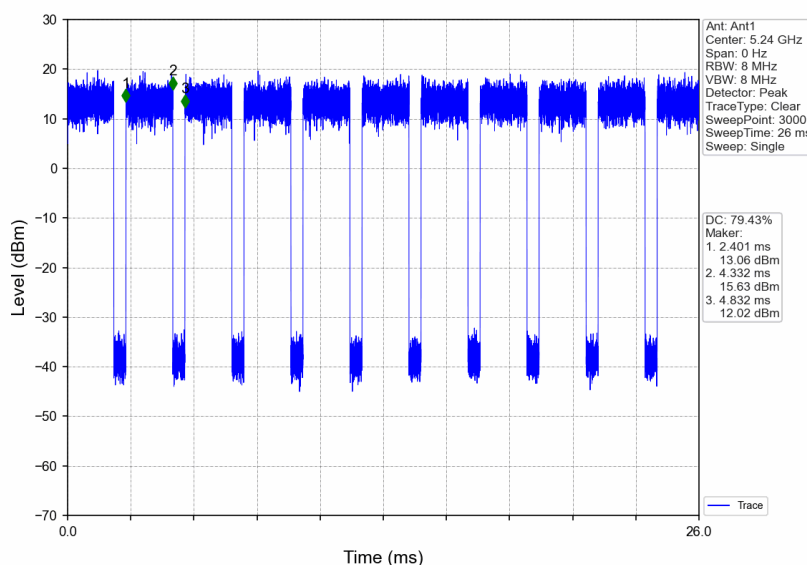
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802.11ac(VHT20) MCH 5200MHz_Ant1_NTNV



802.11ac(VHT20) HCH 5240MHz_Ant1_NTNV



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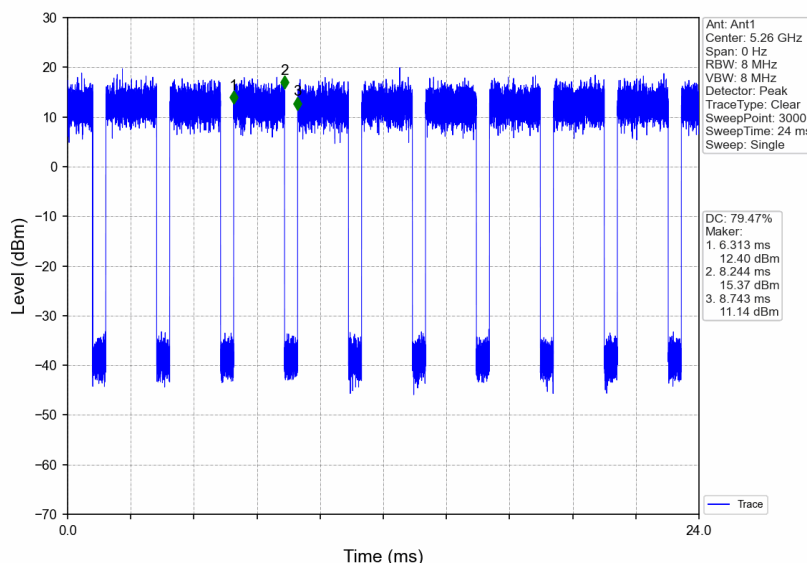
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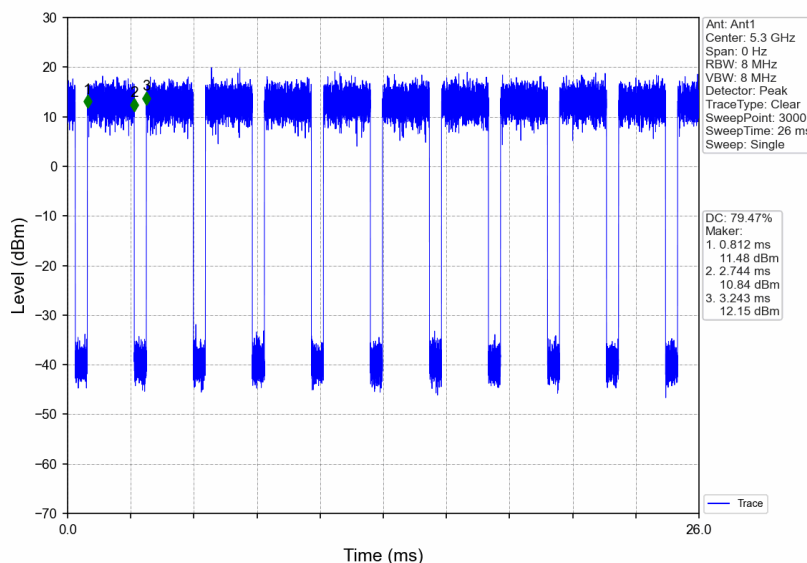
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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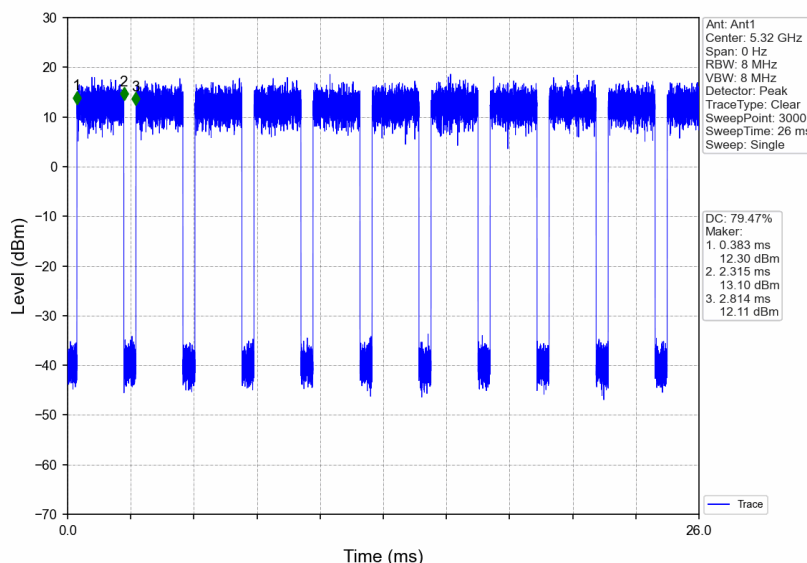
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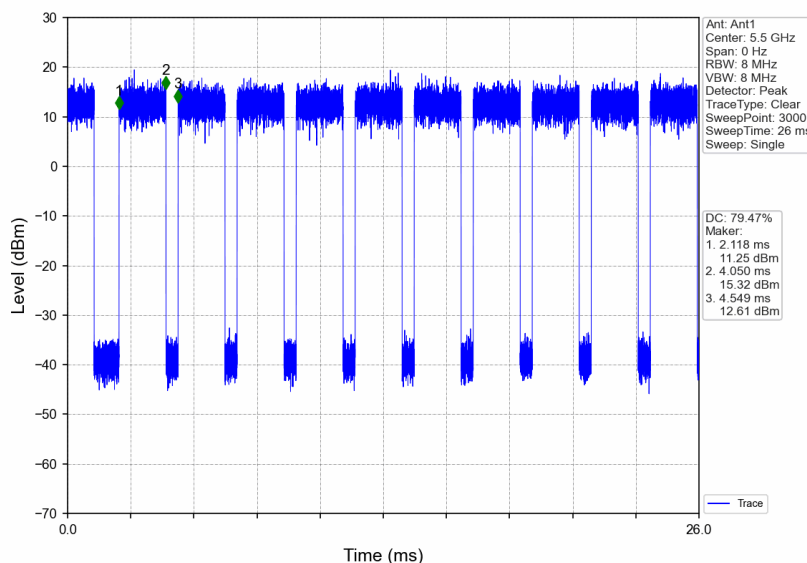
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802.11ac(VHT20) HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20) LCH_5500MHz_Ant1_NTNV



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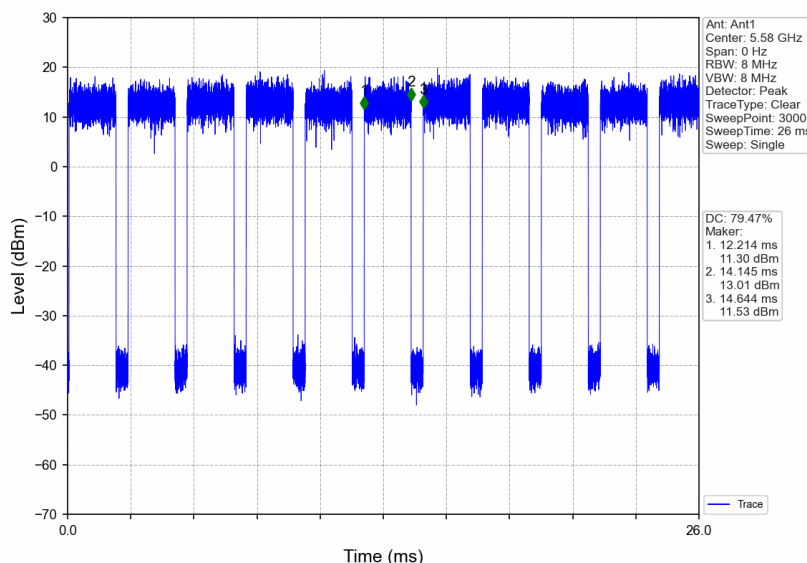
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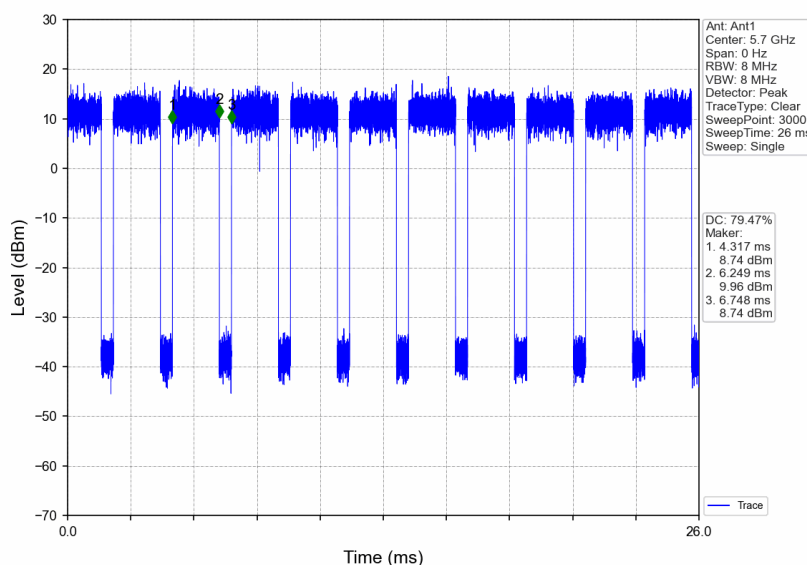
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802.11ac(VHT20) MCH 5580MHz_Ant1_NTNV



802.11ac(VHT20) HCH 5700MHz_Ant1_NTNV



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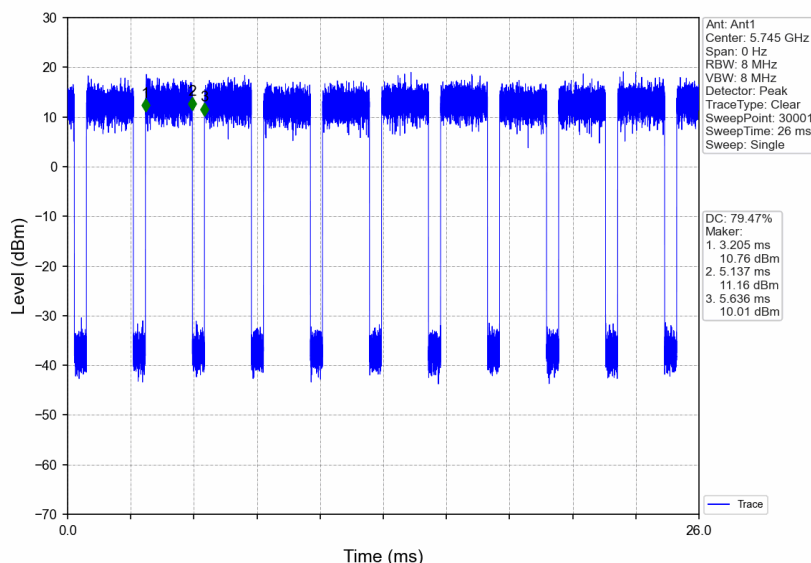
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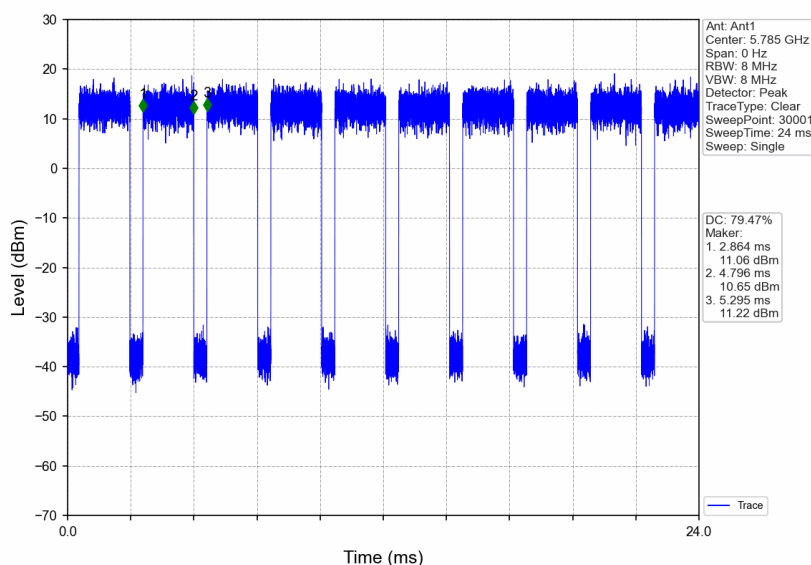
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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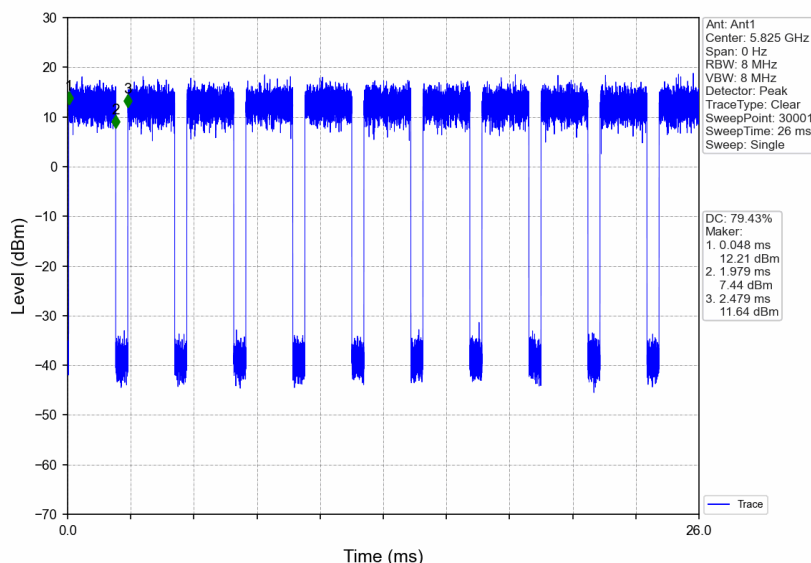
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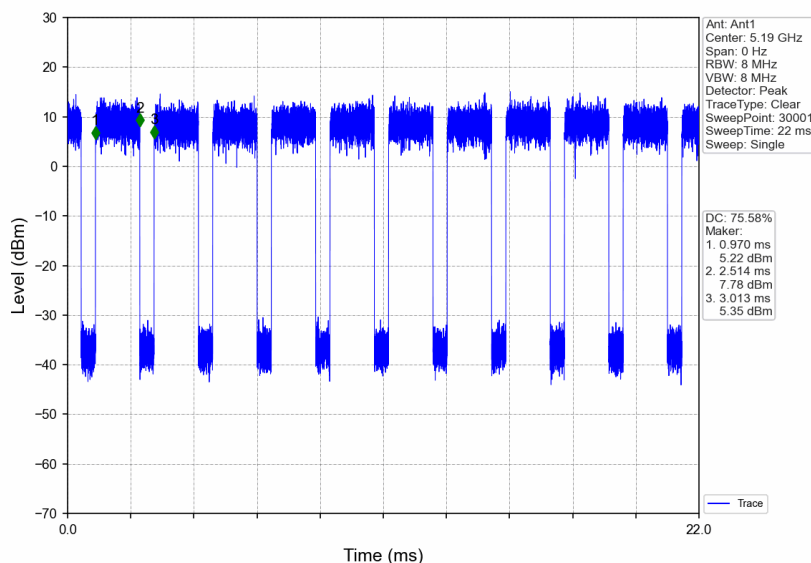
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802.11ac(VHT20) HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV



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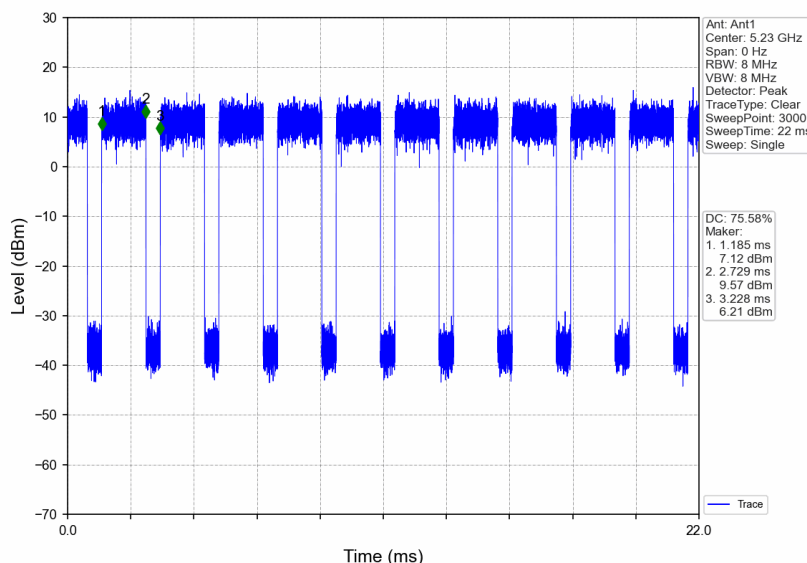
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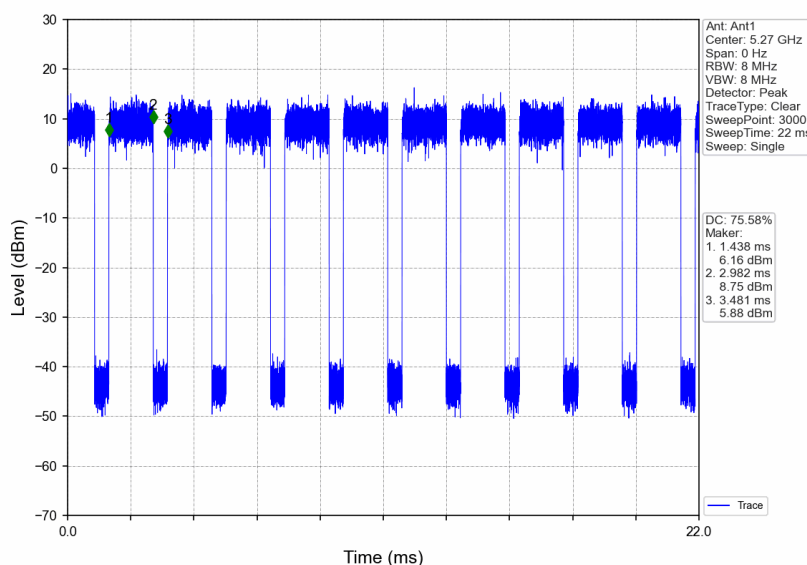
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802.11ac(VHT40) HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5270MHz_Ant1_NTNV



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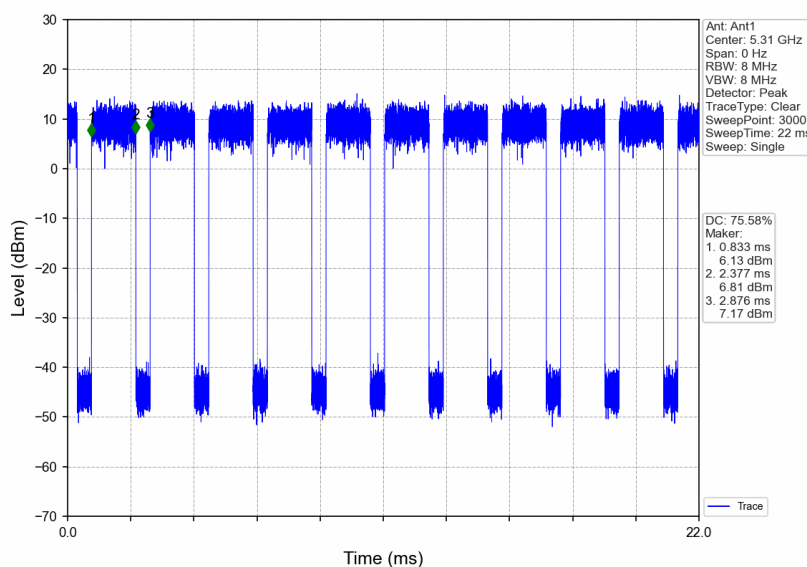
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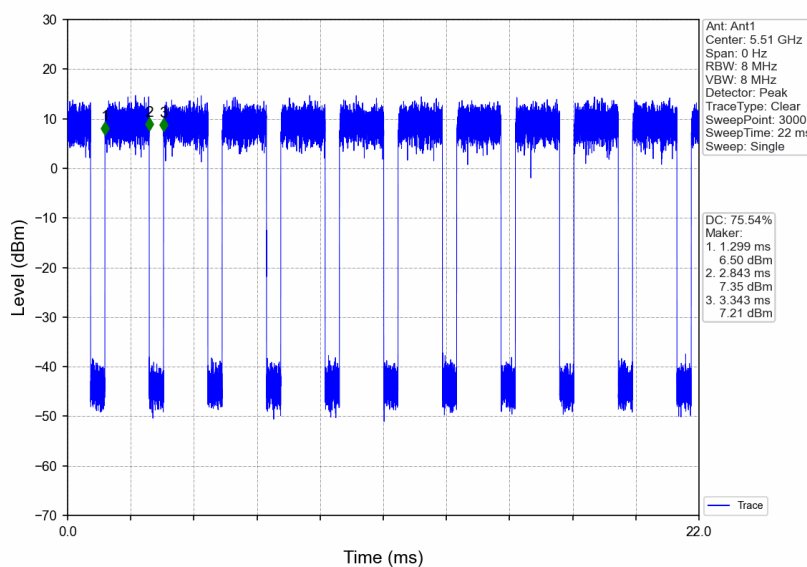
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802.11ac(VHT40) HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40) LCH_5510MHz_Ant1_NTNV



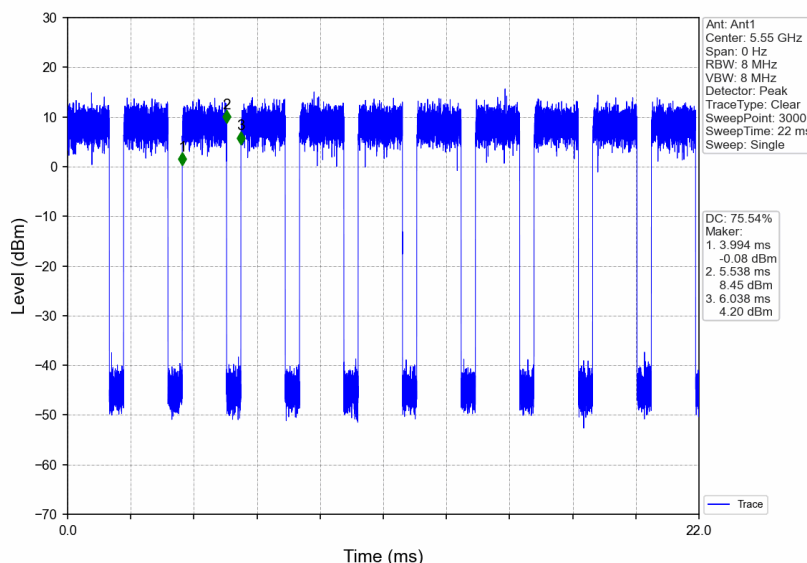
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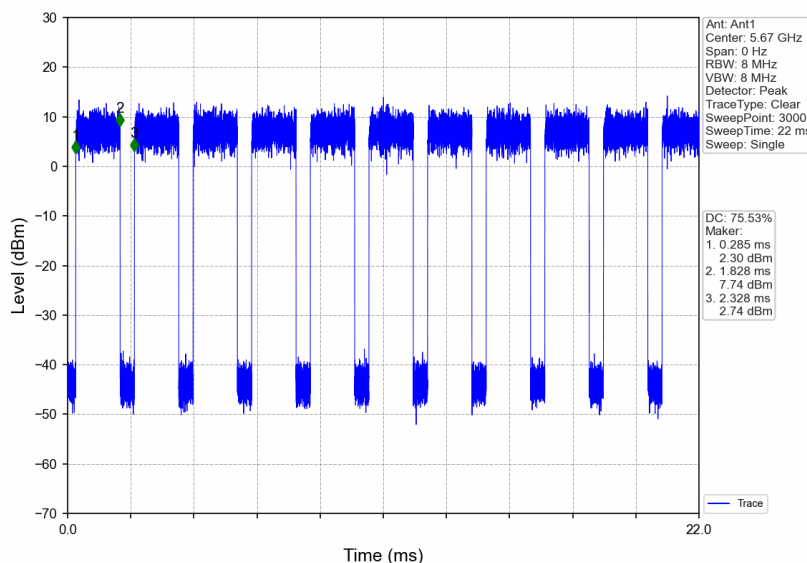
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802.11ac(VHT40) MCH 5550MHz_Ant1_NTNV



802.11ac(VHT40) HCH 5670MHz_Ant1_NTNV



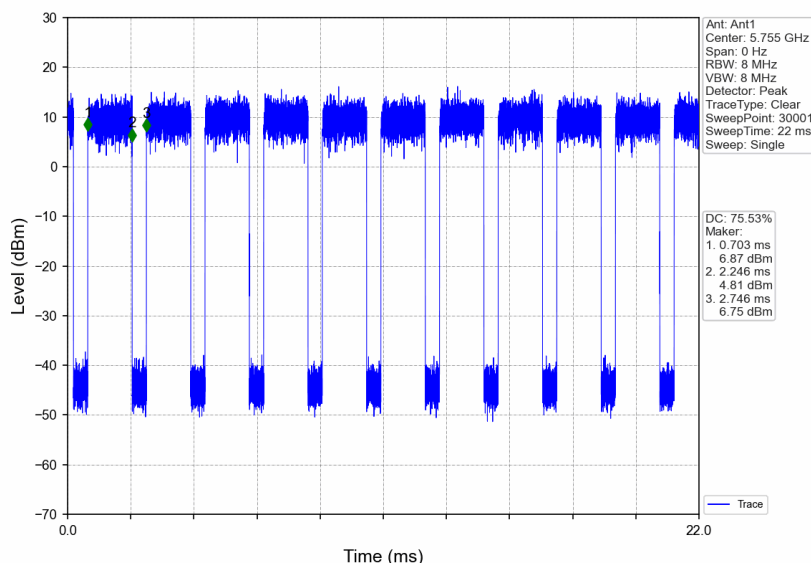
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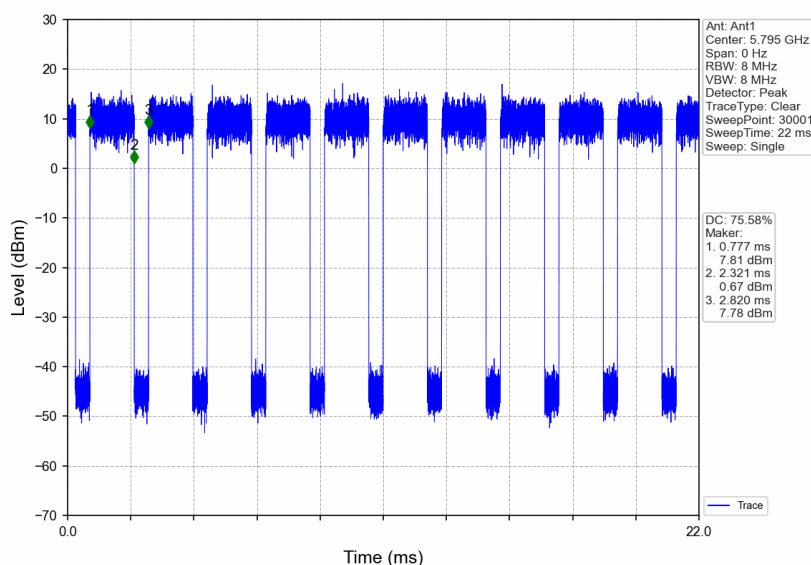
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802.11ac(VHT40) LCH 5755MHz_Ant1_NTNV



802.11ac(VHT40) HCH 5795MHz_Ant1_NTNV



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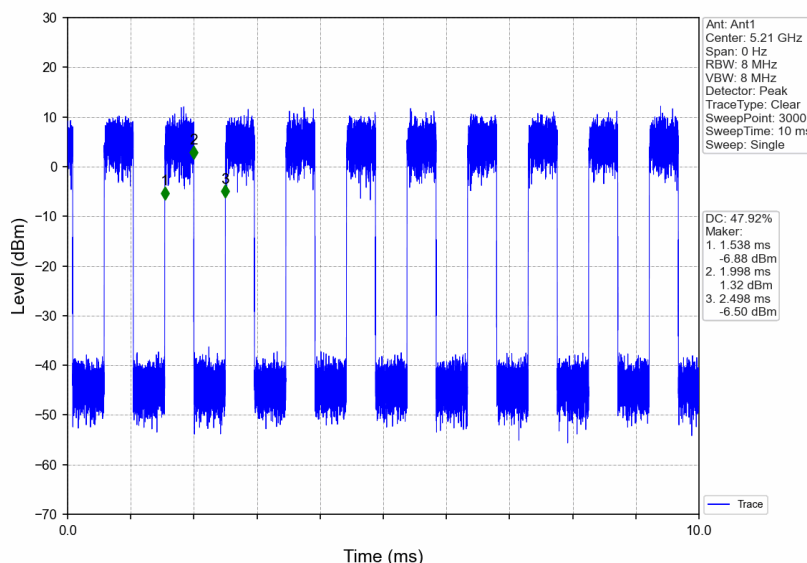
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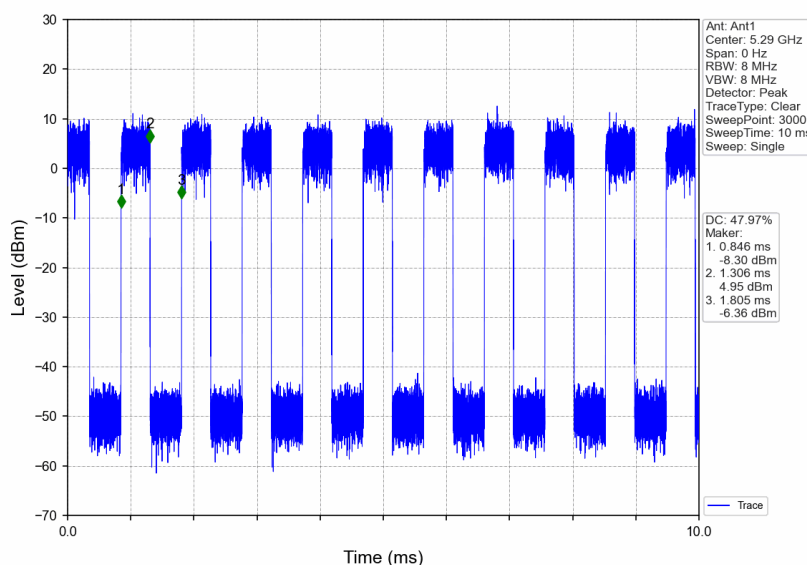
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802.11ac(VHT80) MCH 5210MHz_Ant1_NTNV



802.11ac(VHT80) MCH 5290MHz_Ant1_NTNV



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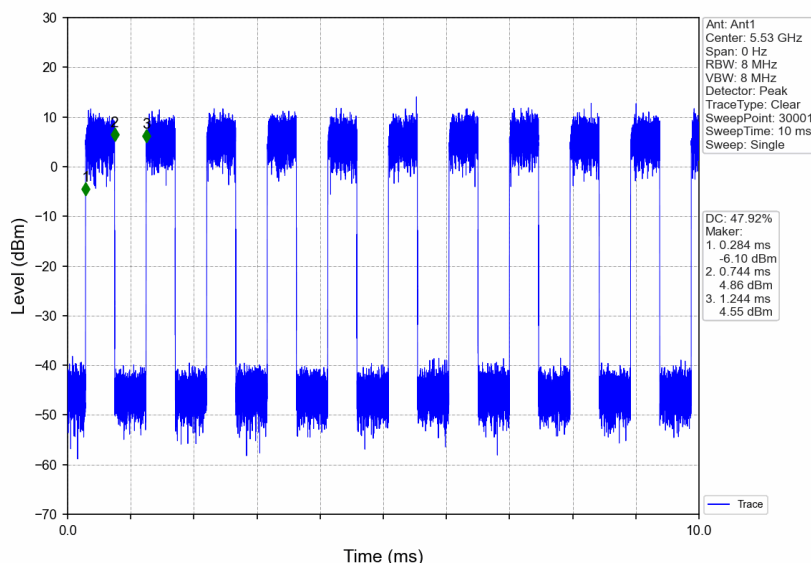
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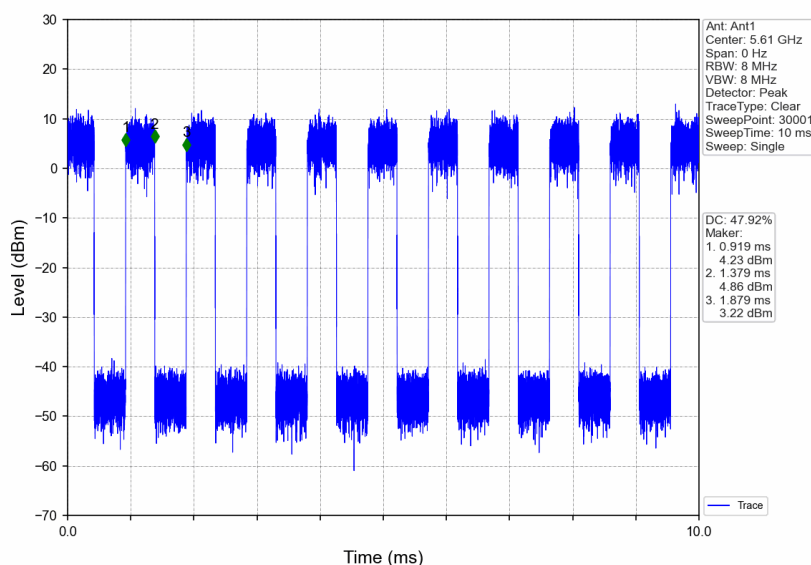
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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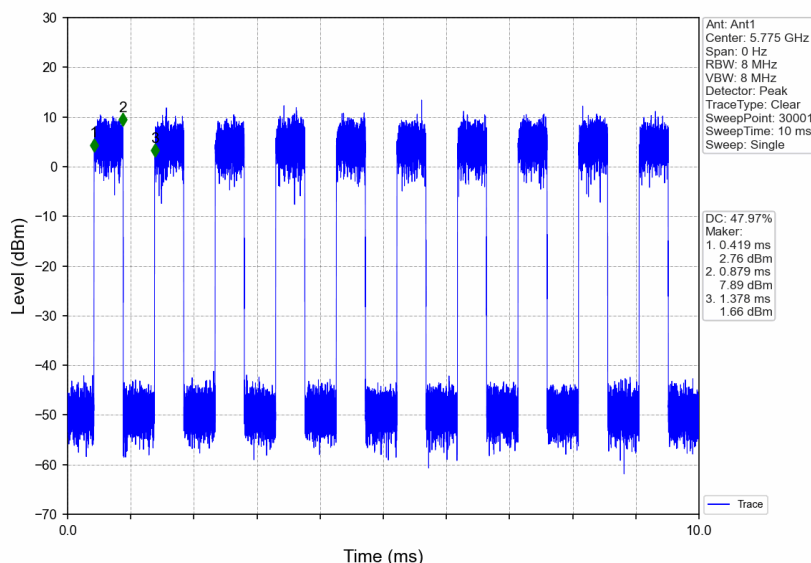
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802.11ac(VHT80) MCH 5775MHz Ant1_NTNV



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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	17.791	Pass
			2	17.816	Pass
		5200	1	17.857	Pass
			2	17.985	Pass
		5240	1	17.938	Pass
			2	18.061	Pass
		5260	1	17.986	Pass
			2	17.882	Pass
		5300	1	17.940	Pass
			2	17.973	Pass
		5320	1	17.979	Pass
			2	18.042	Pass
		5500	1	17.828	Pass
			2	18.054	Pass
		5580	1	17.976	Pass
			2	17.996	Pass
		5700	1	17.909	Pass
			2	18.134	Pass
		5745	1	18.639	Pass
			2	18.359	Pass
802.11n (HT20)	MIMO	5180	1	18.632	Pass
			2	18.615	Pass
		5200	1	18.609	Pass
			2	18.670	Pass
		5240	1	18.722	Pass
			2	18.664	Pass
		5260	1	18.662	Pass
			2	18.833	Pass
		5300	1	18.733	Pass
			2	18.757	Pass
		5320	1	18.634	Pass
			2	18.755	Pass
		5500	1	18.644	Pass
			2	18.881	Pass
		5580	1	18.592	Pass
			2	18.686	Pass
		5700	1	18.725	Pass
			2	18.701	Pass
		5745	1	18.762	Pass
			2	18.574	Pass
		5785	1	18.691	Pass
			2	18.569	Pass



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		5825	1	18.574	Pass
			2	18.554	Pass
802.11n (HT40)	MIMO	5190	1	36.713	Pass
			2	36.735	Pass
		5230	1	36.792	Pass
			2	36.876	Pass
		5270	1	36.835	Pass
			2	36.866	Pass
		5310	1	36.855	Pass
			2	36.816	Pass
		5510	1	36.798	Pass
			2	36.757	Pass
		5550	1	36.855	Pass
			2	36.740	Pass
		5670	1	36.763	Pass
			2	36.711	Pass
		5755	1	36.959	Pass
			2	37.217	Pass
802.11ac (VHT20)	MIMO	5180	1	36.904	Pass
			2	36.848	Pass
		5200	1	18.595	Pass
			2	18.716	Pass
		5240	1	18.641	Pass
			2	18.796	Pass
		5260	1	18.894	Pass
			2	18.672	Pass
		5300	1	18.807	Pass
			2	18.614	Pass
		5320	1	18.745	Pass
			2	18.705	Pass
		5500	1	18.729	Pass
			2	18.627	Pass
		5580	1	18.814	Pass
			2	18.709	Pass
802.11ac (VHT40)	MIMO	5700	1	18.641	Pass
			2	18.894	Pass
		5745	1	18.624	Pass
			2	18.596	Pass
		5785	1	18.663	Pass
			2	18.684	Pass
		5825	1	18.732	Pass
			2	18.537	Pass
		5190	1	18.690	Pass
			2	18.562	Pass
		5230	1	36.801	Pass
			2	36.831	Pass
		5270	1	36.807	Pass
			2	36.753	Pass
		5310	1	36.772	Pass
			2	36.805	Pass
		5510	1	36.783	Pass
			2	36.714	Pass
		5550	1	36.715	Pass
			2	36.778	Pass
		5550	1	36.878	Pass
			2	36.878	Pass



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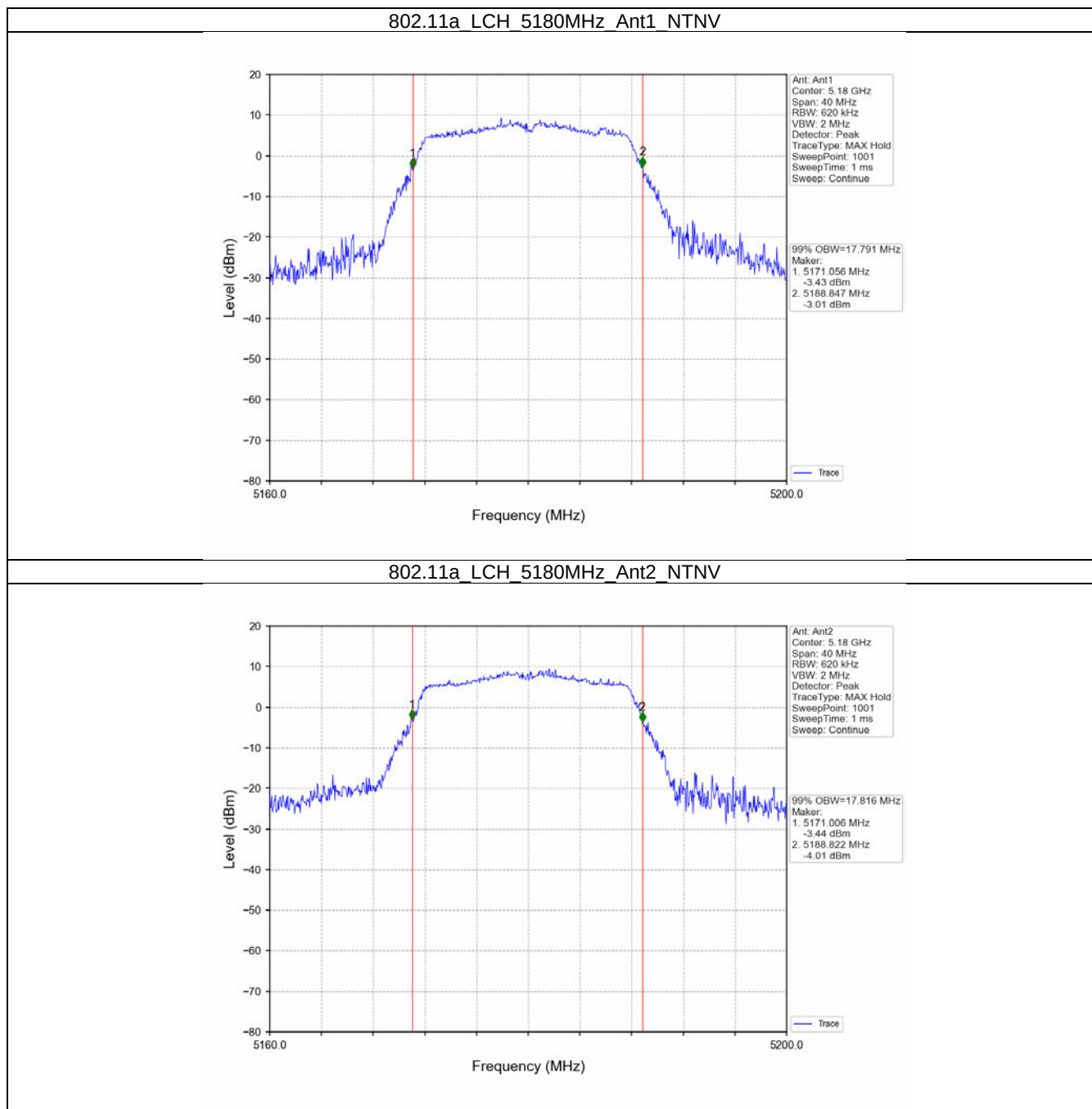
		5670	2	36.674	Pass
			1	36.726	Pass
			2	36.702	Pass
		5755	1	36.969	Pass
			2	36.988	Pass
		5795	1	36.984	Pass
			2	36.907	Pass
802.11ac (VHT80)	MIMO	5210	1	76.600	Pass
			2	76.710	Pass
		5290	1	76.546	Pass
			2	76.462	Pass
		5530	1	76.539	Pass
			2	76.374	Pass
		5610	1	76.629	Pass
			2	76.540	Pass
		5775	1	76.571	Pass
			2	76.551	Pass



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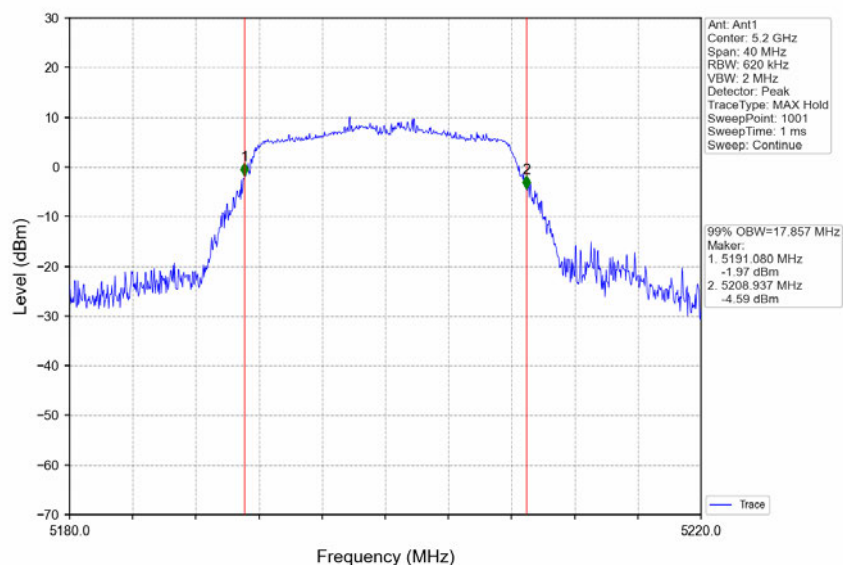
2.1.2 Test Graph



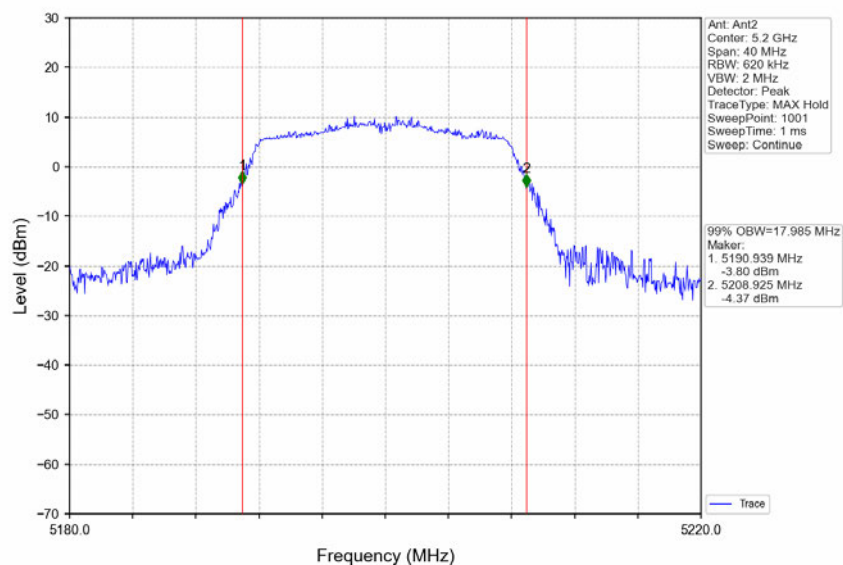
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802.11a_MCH_5200MHz_Ant1_NTNV



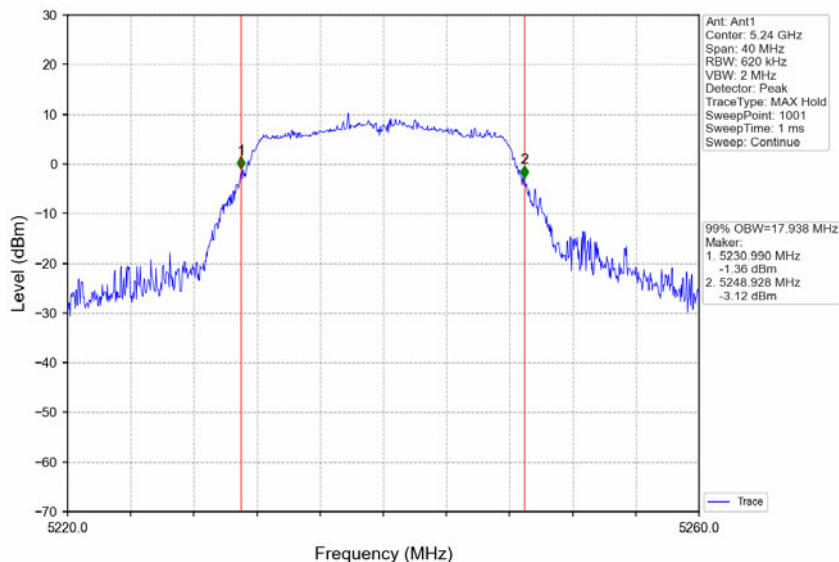
802.11a_MCH_5200MHz_Ant2_NTNV



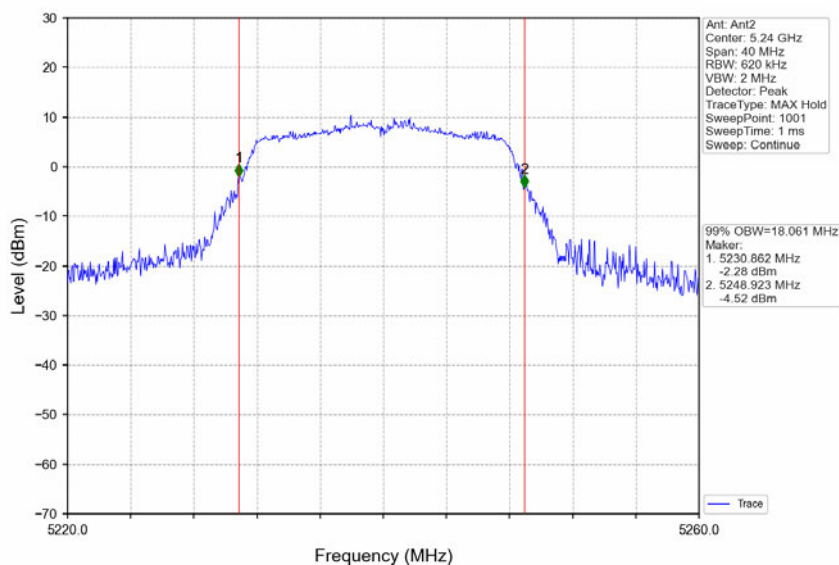
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802.11a_HCH_5240MHz_Ant1_NTNV



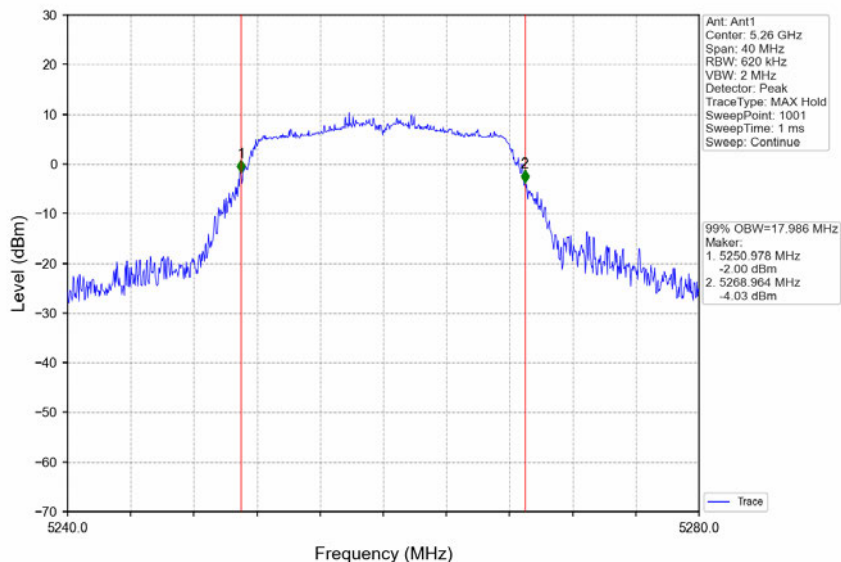
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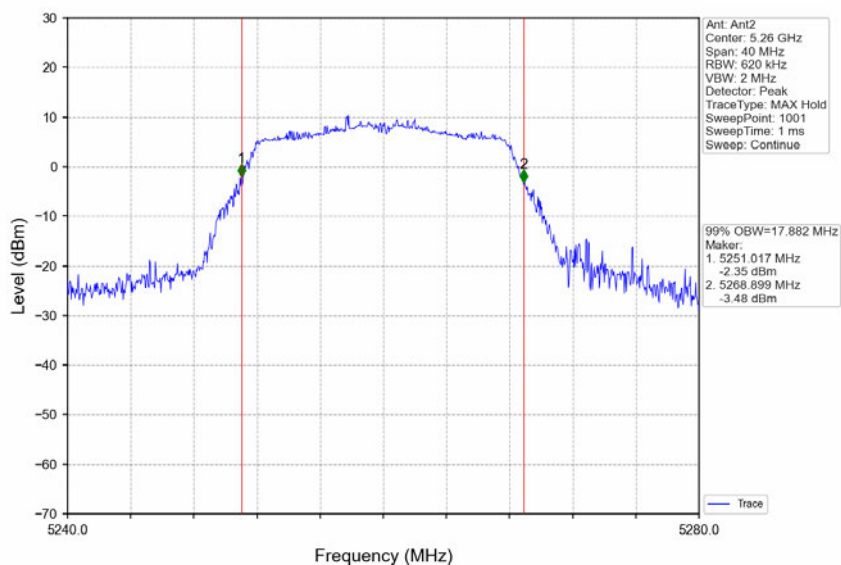
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802.11a LCH_5260MHz_Ant1_NTNV



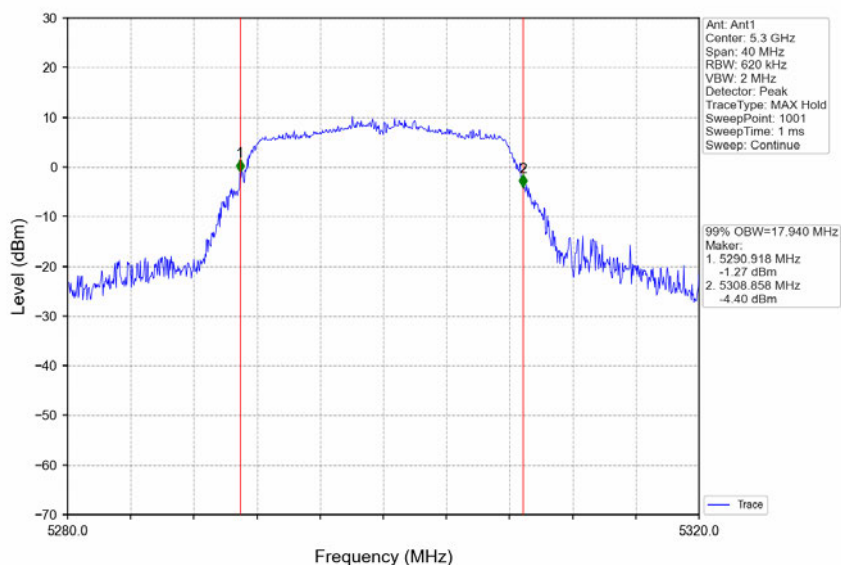
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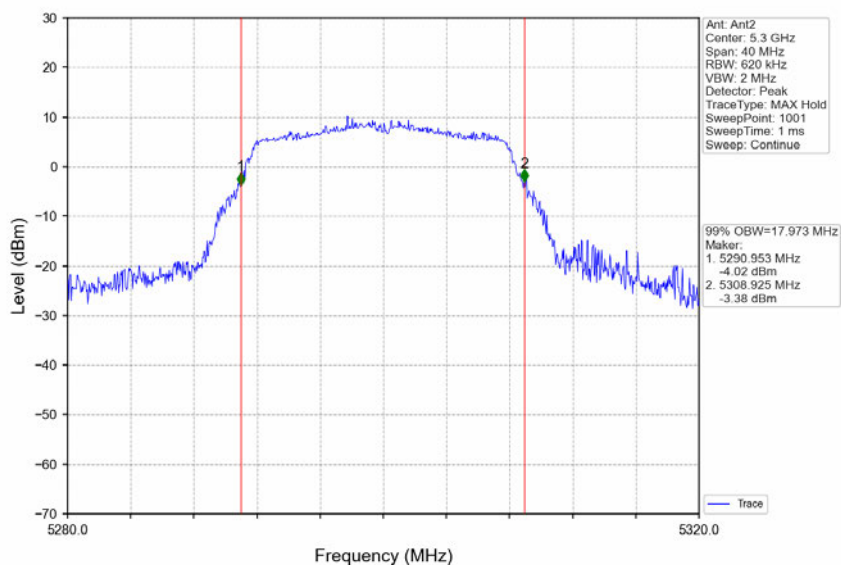
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802.11a_MCH_5300MHz_Ant1_NTNV



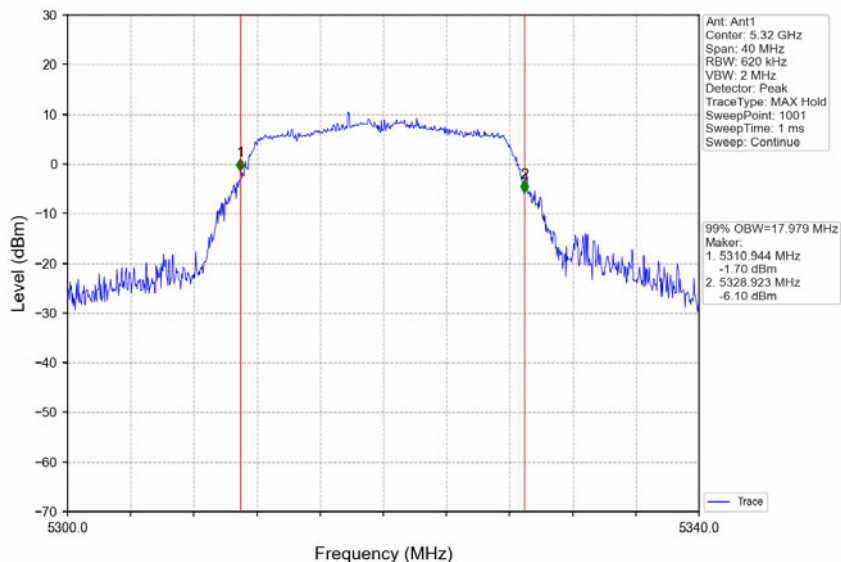
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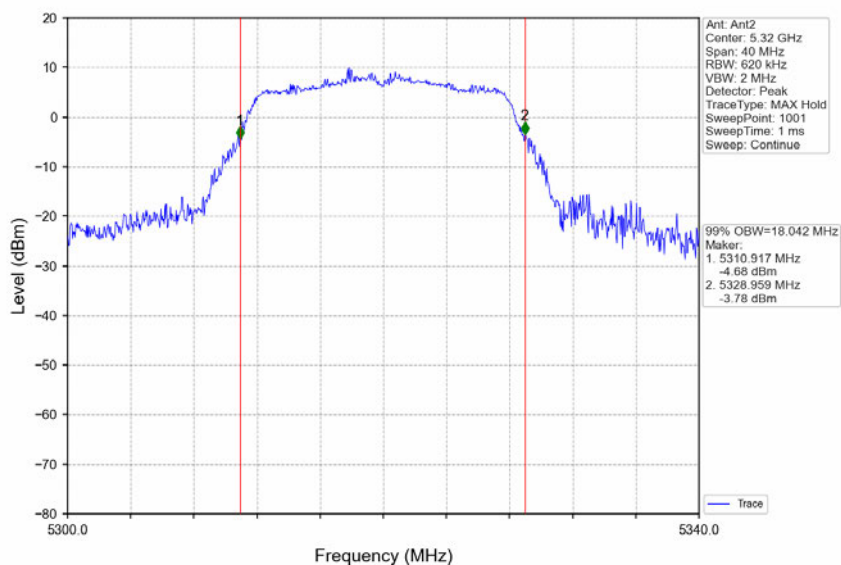
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802.11a_HCH_5320MHz_Ant1_NTNV



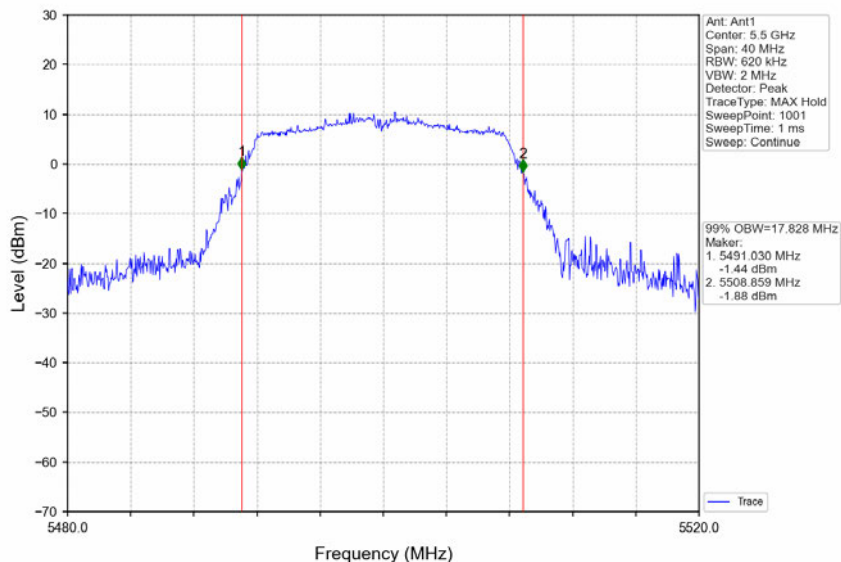
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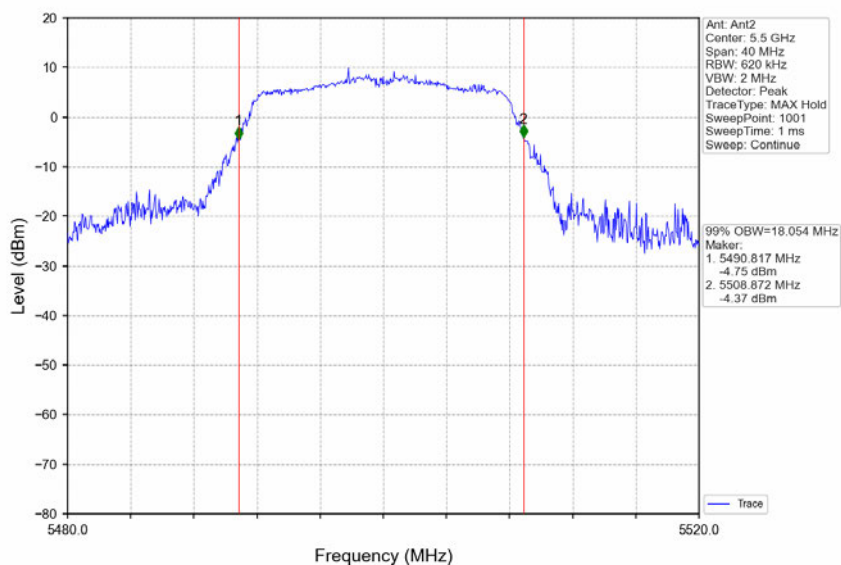
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802.11a_LCH_5500MHz_Ant1_NTNV



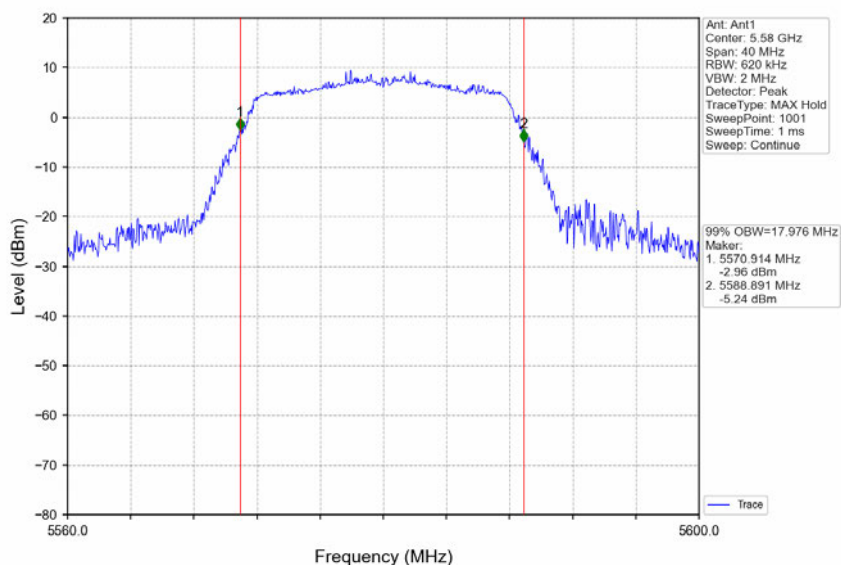
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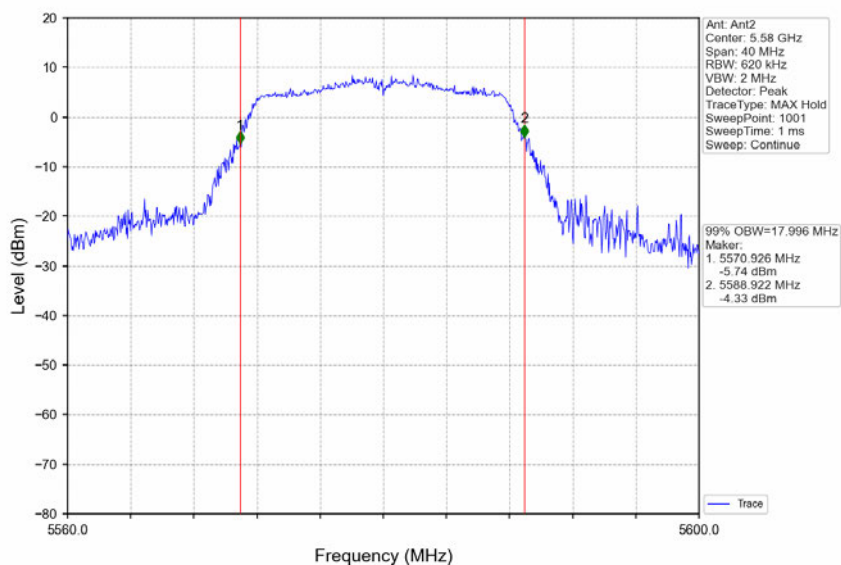
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802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant2_NTNV



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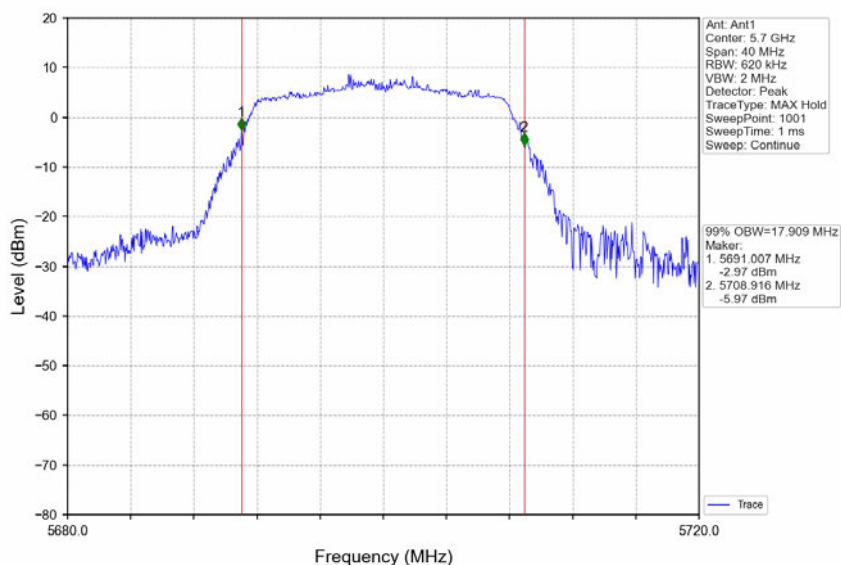
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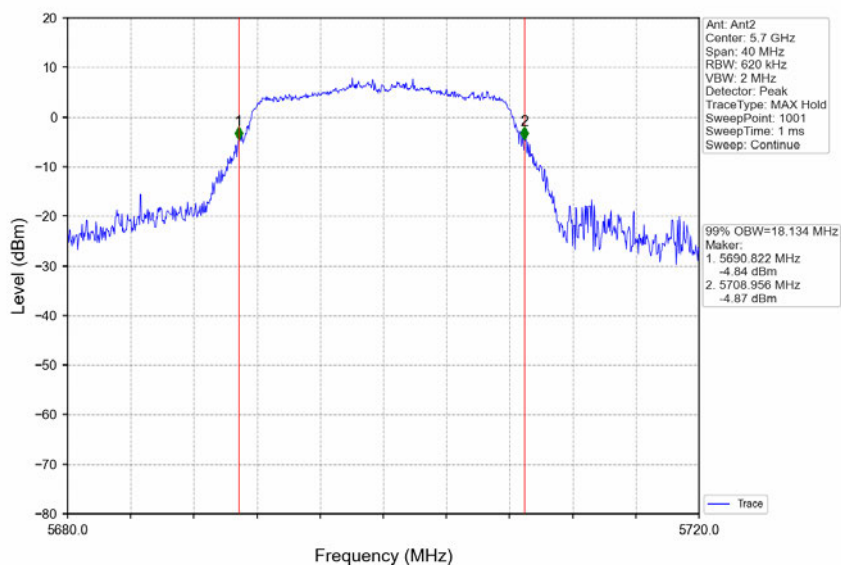
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802.11a_HCH_5700MHz_Ant1_NTNV



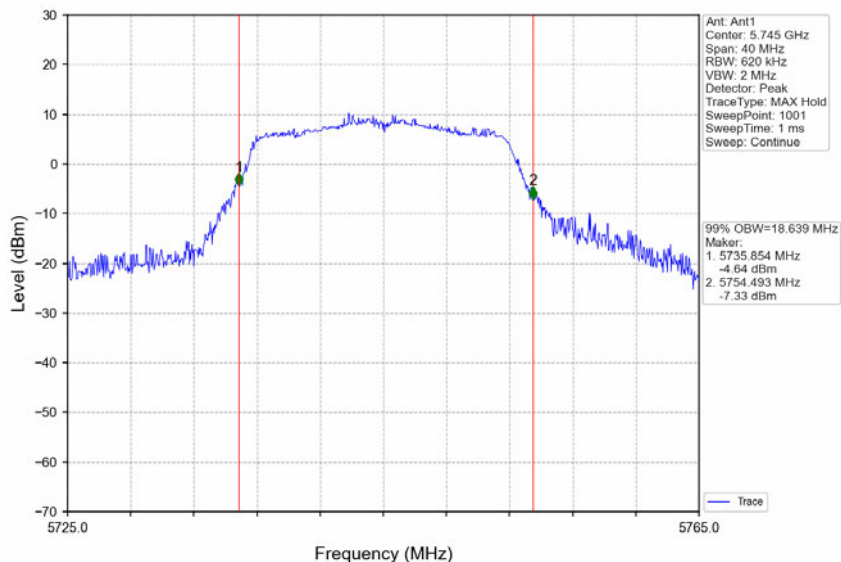
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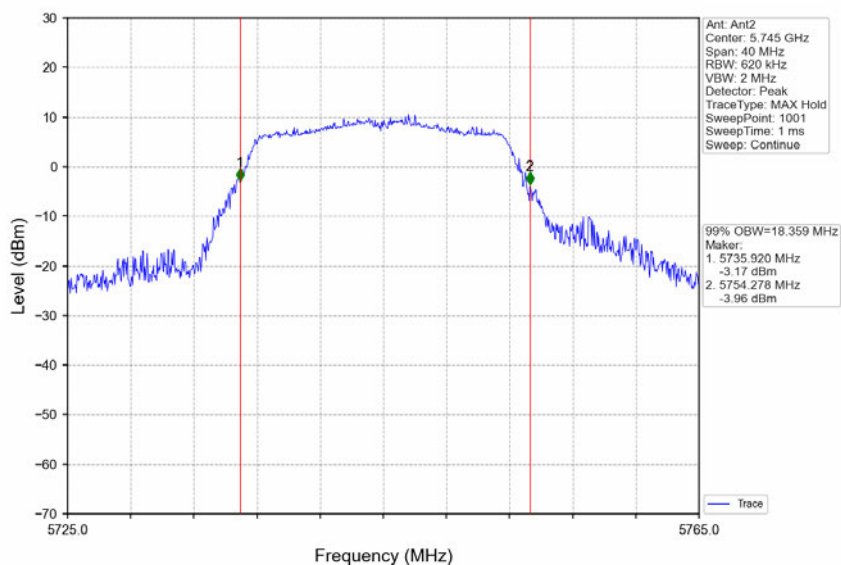
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802.11a LCH_5745MHz_Ant1_NTNV



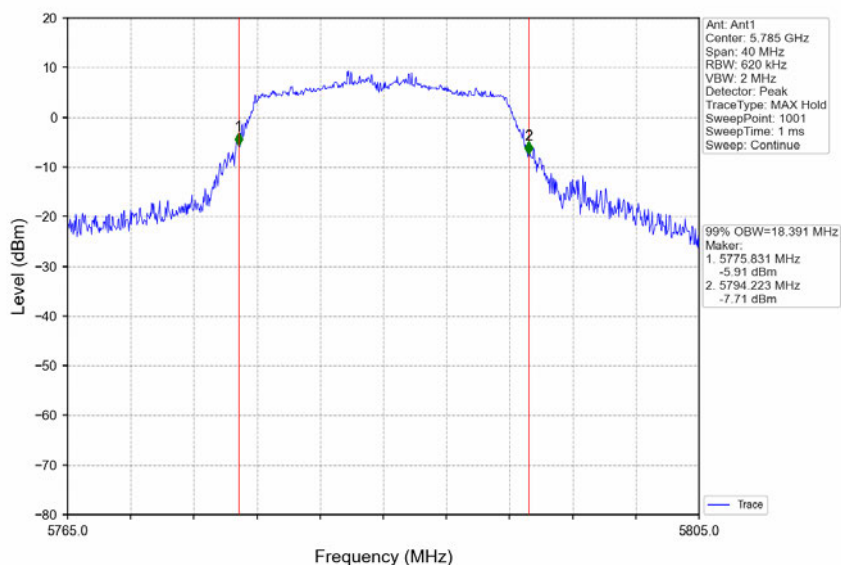
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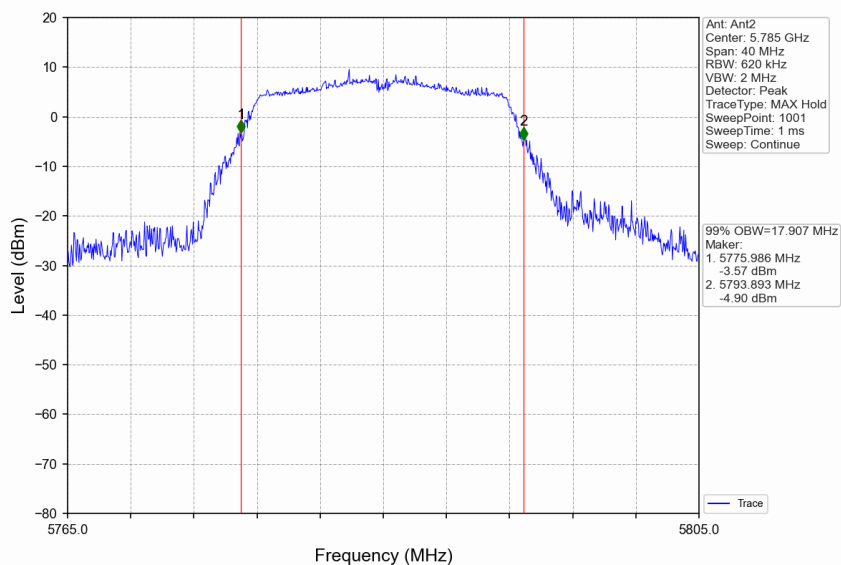
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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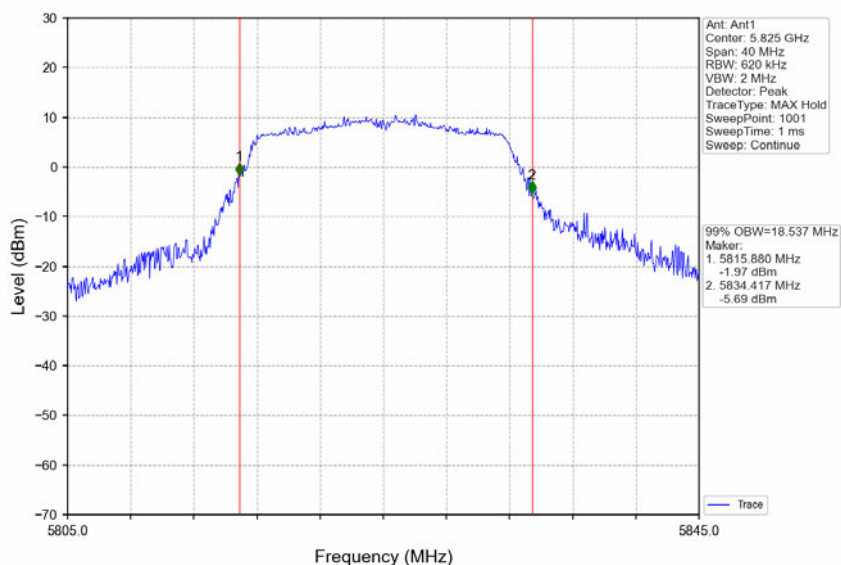
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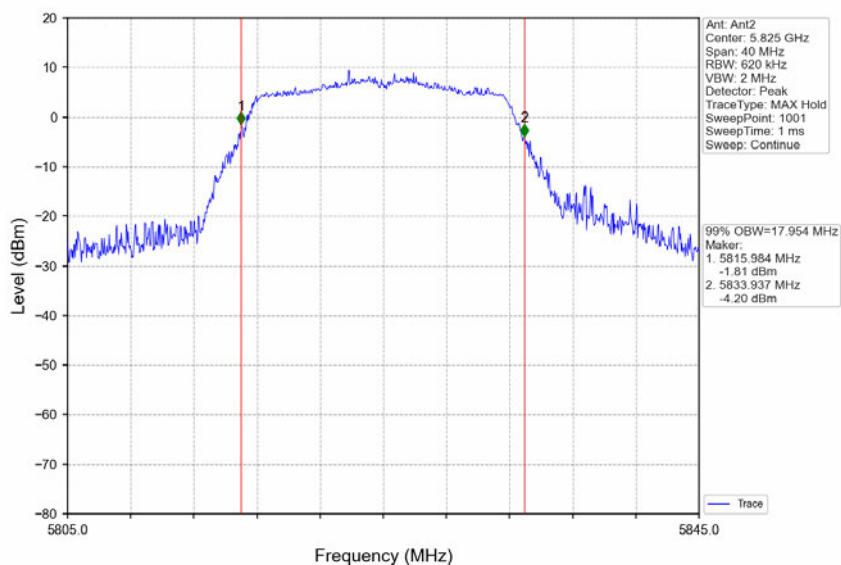
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802.11a_HCH_5825MHz_Ant1_NTNV



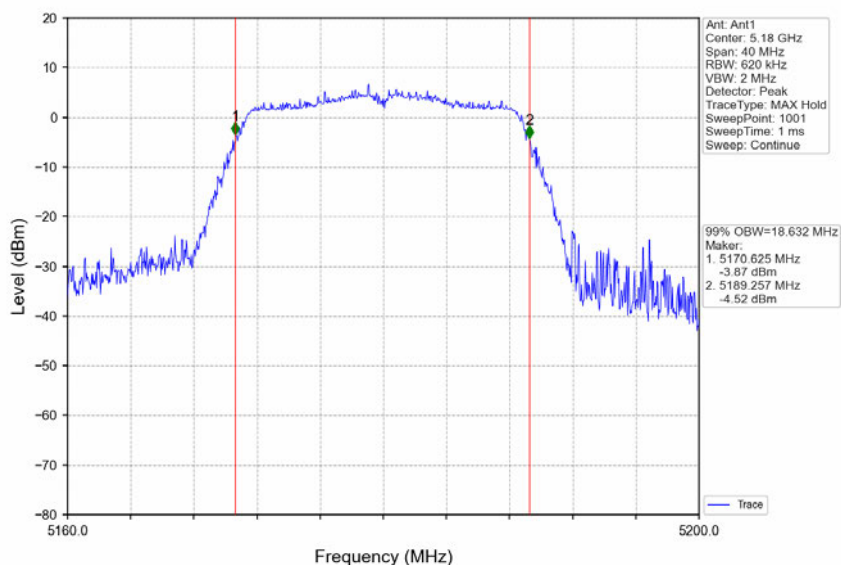
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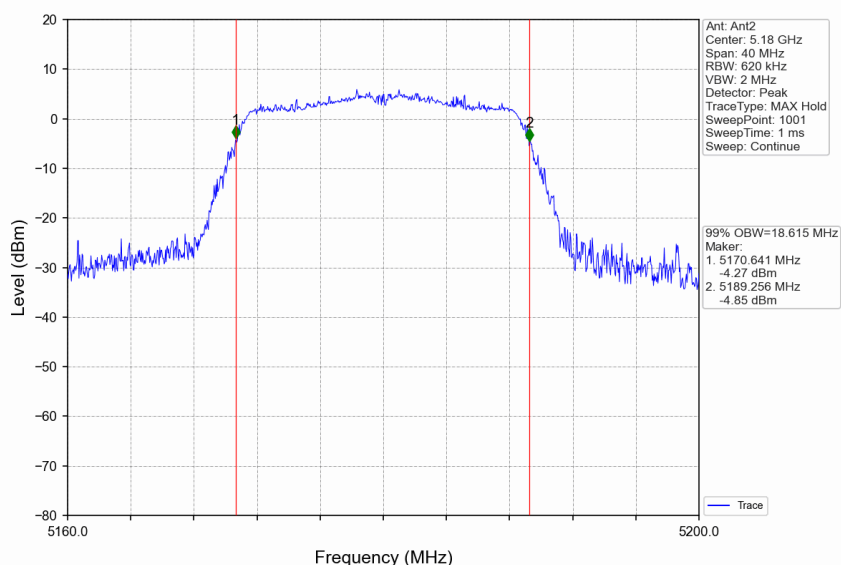
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802.11n(HT20) LCH 5180MHz Ant1 NTN



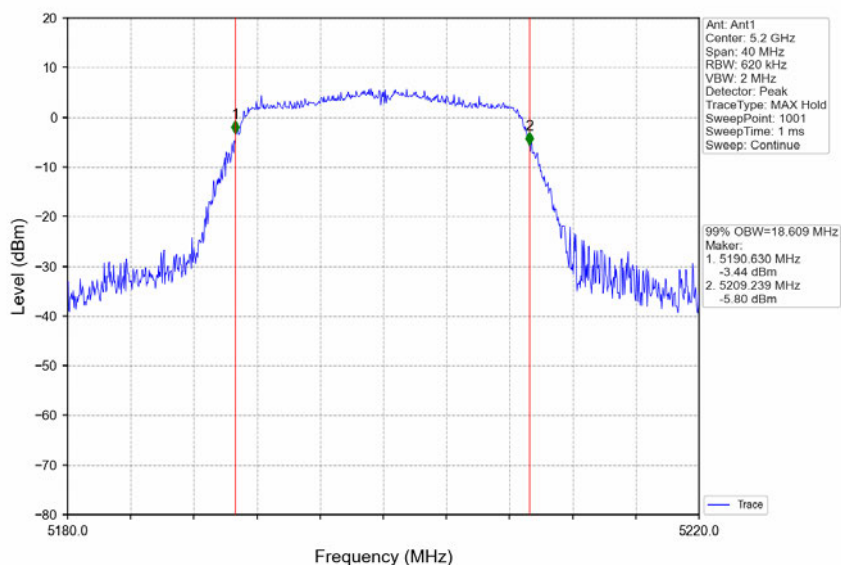
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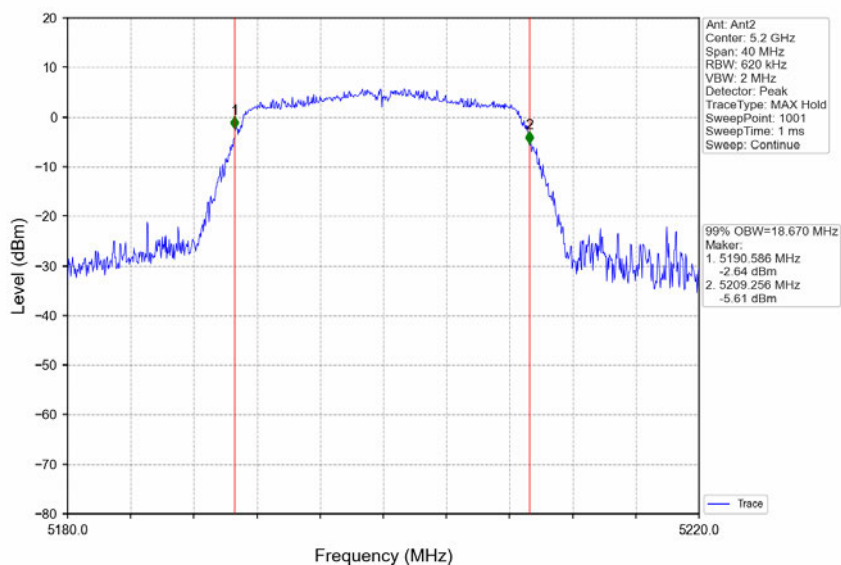
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



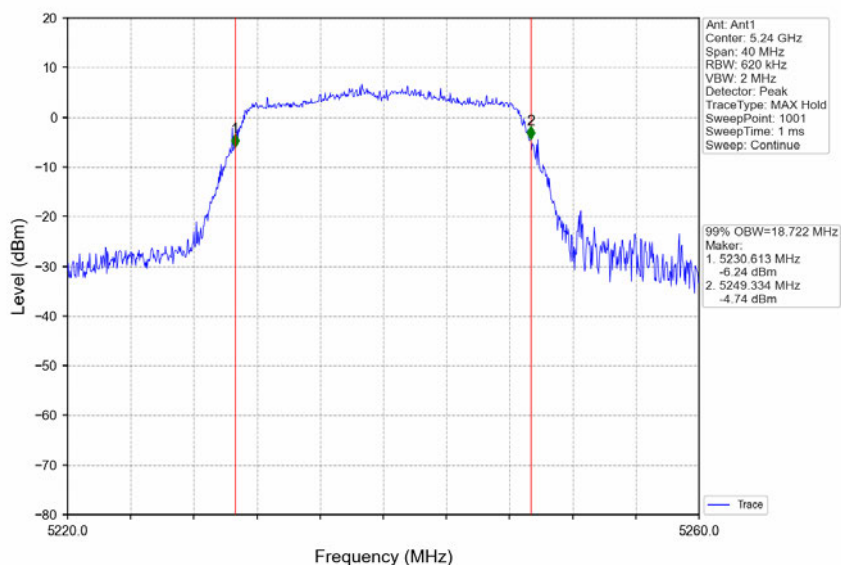
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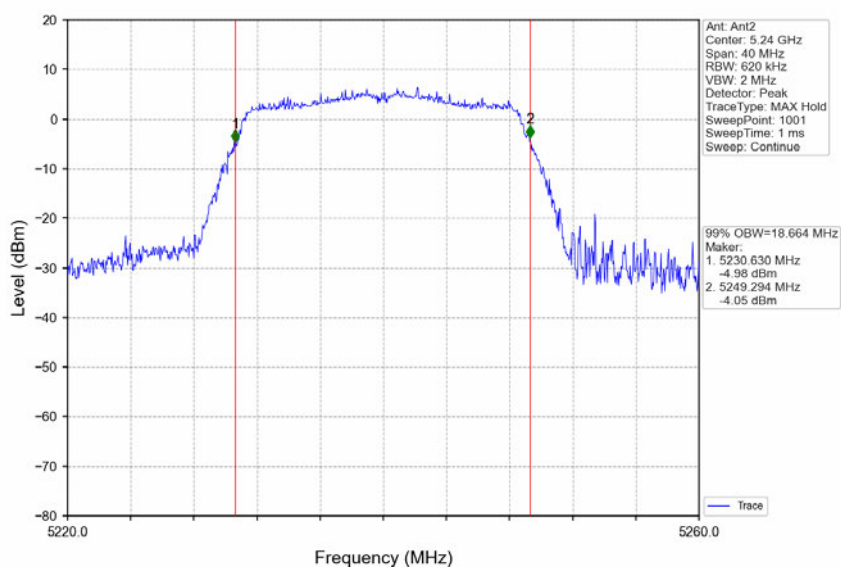
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802.11n(HT20) HCH 5240MHz Ant1 NTV



802.11n(HT20) HCH 5240MHz Ant2 NTV



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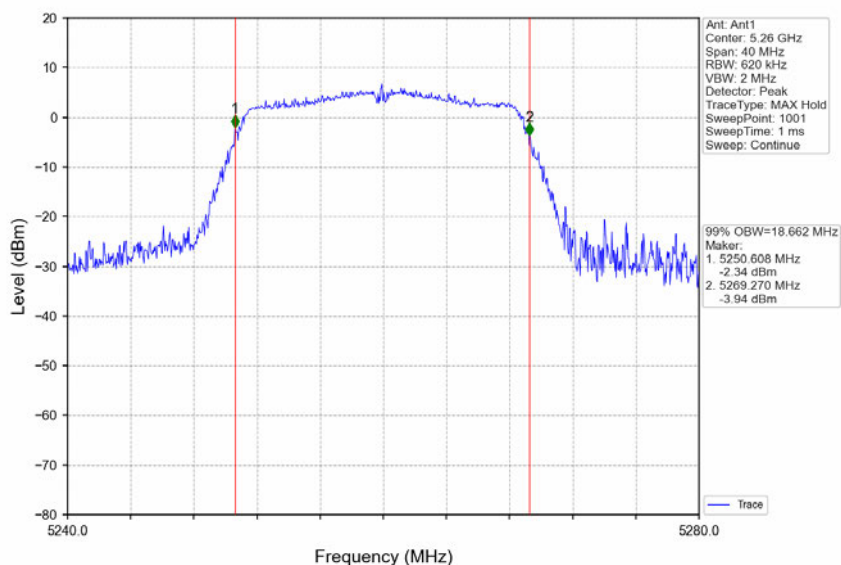
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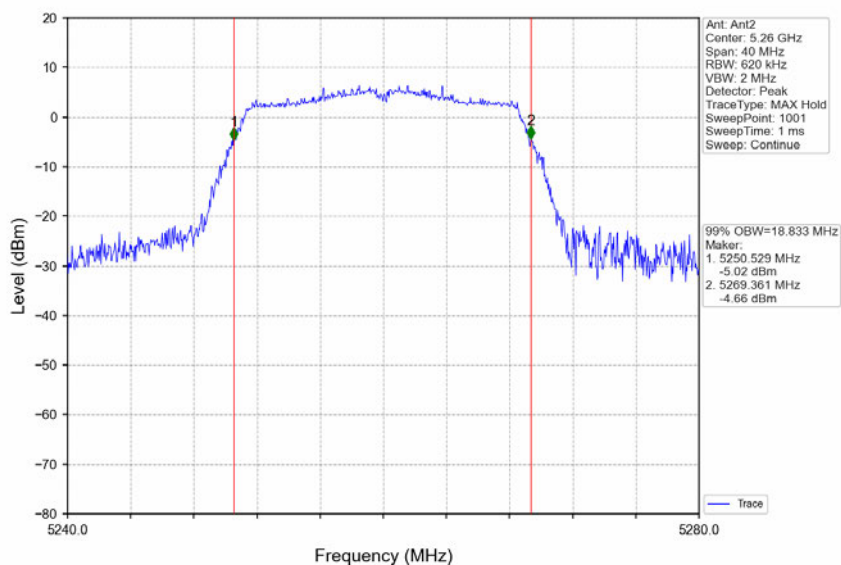
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802.11n(HT20) LCH_5260MHz_Ant1_NTNV



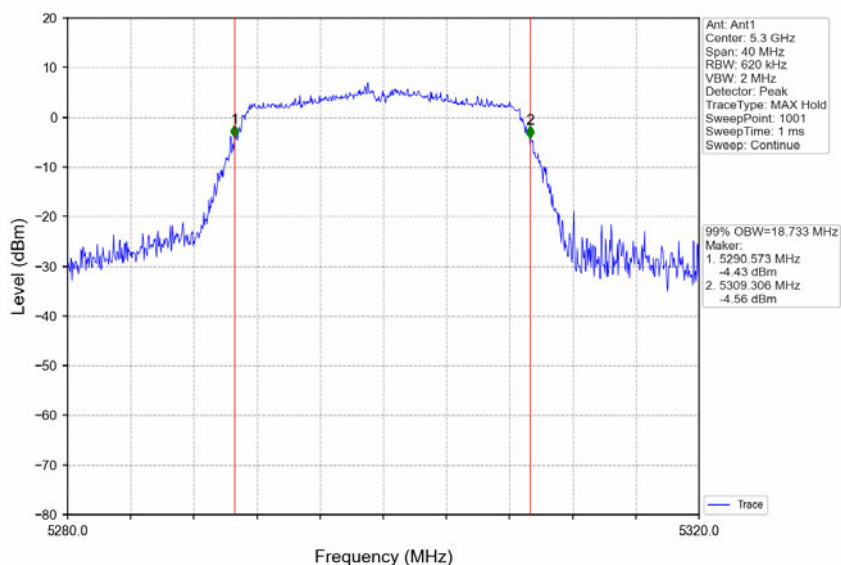
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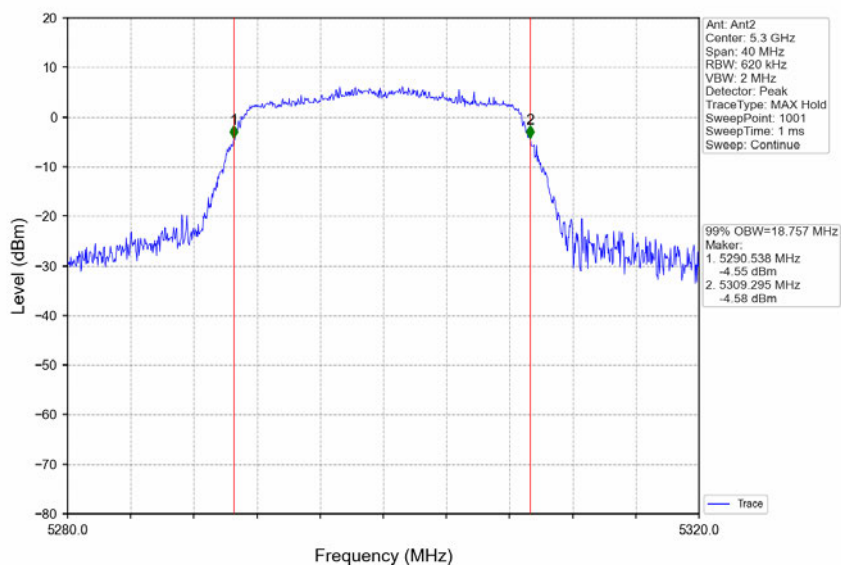
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



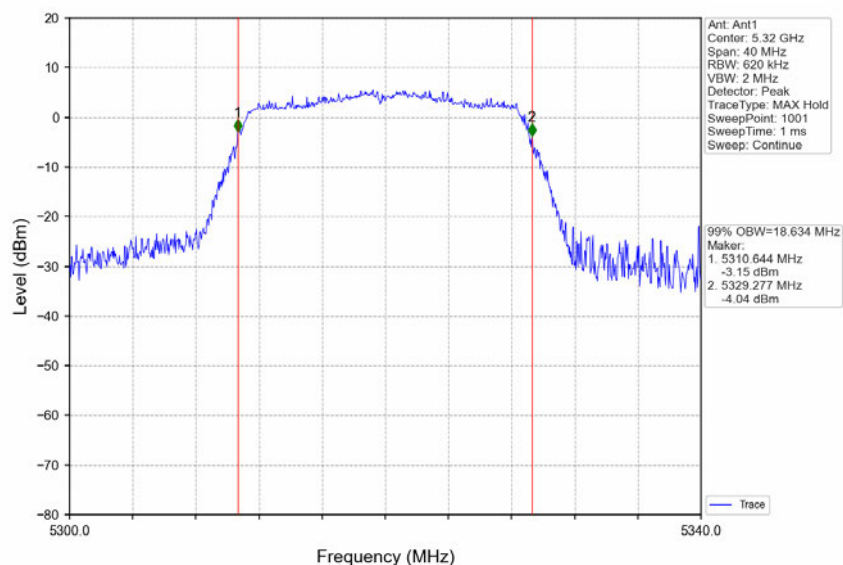
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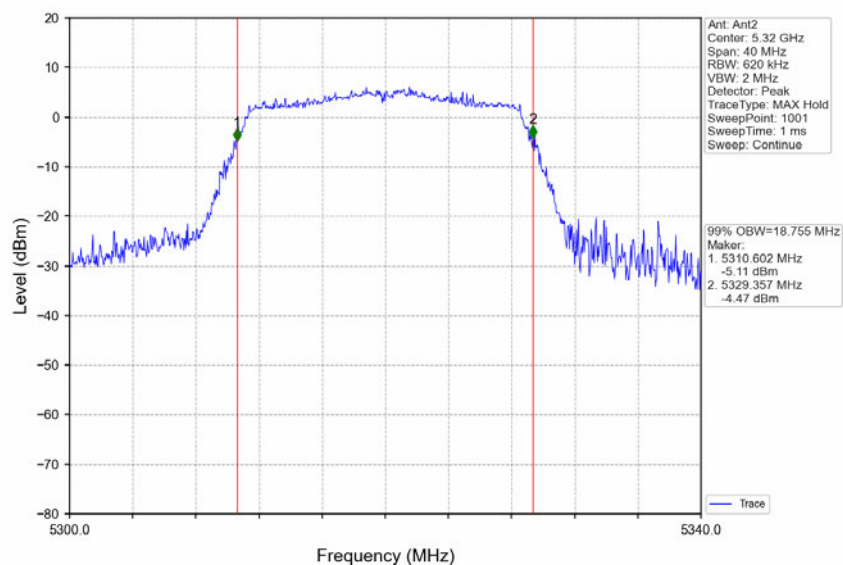
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



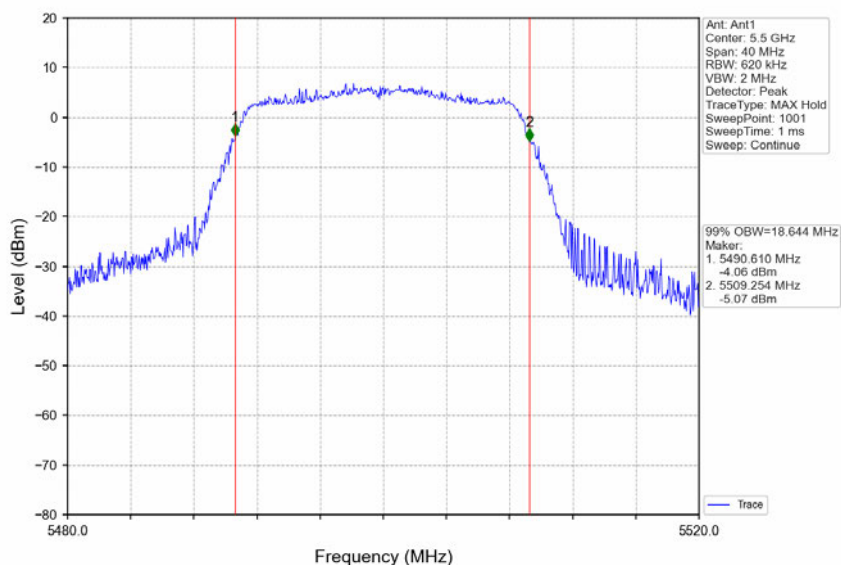
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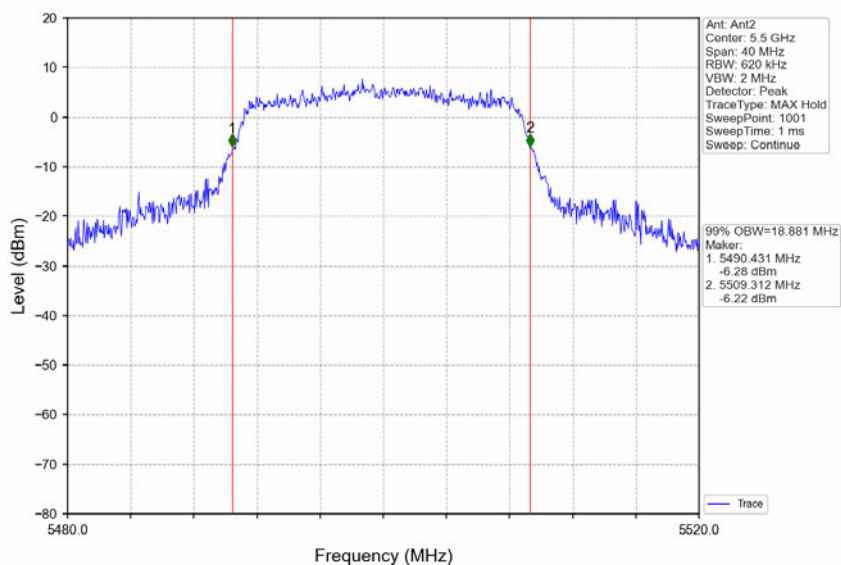
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802.11n(HT20) LCH_5500MHz_Ant1_NTNV



802.11n(HT20) LCH_5500MHz_Ant2_NTNV



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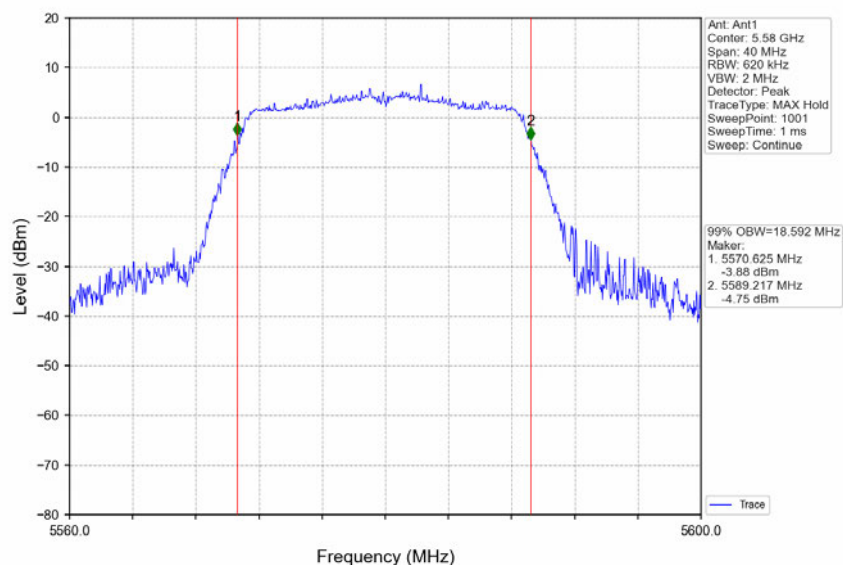
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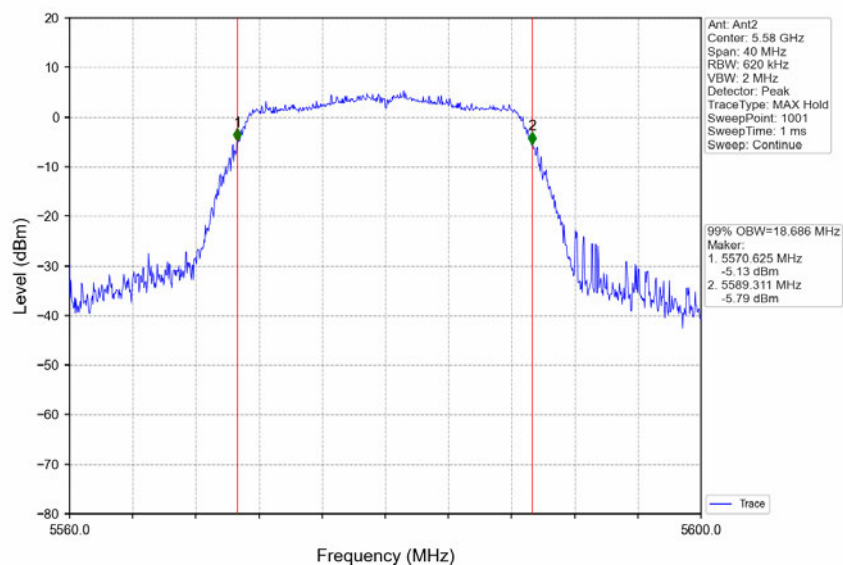
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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