

Appendix B for SHCR220100002102

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	1.395	1.494	93.37	0.30	0.03
		5200	1.395	1.494	93.37	0.30	0.03
		5240	1.395	1.495	93.31	0.30	0.03
		5260	1.395	1.494	93.37	0.30	0.03
		5300	1.395	1.494	93.37	0.30	0.03
		5320	1.396	1.495	93.38	0.30	0.03
		5500	1.395	1.495	93.31	0.30	0.03
		5580	1.395	1.494	93.37	0.30	0.03
		5700	1.395	1.494	93.37	0.30	0.03
		5745	1.395	1.494	93.37	0.30	0.03
802.11n (HT20)	MIMO	5180	1.919	2.418	79.36	1.00	0.03
		5200	1.919	2.419	79.33	1.01	0.04
		5240	1.920	2.536	75.71	1.21	0.09
		5260	1.920	2.536	75.71	1.21	0.05
		5300	1.920	2.536	75.71	1.21	0.05
		5320	1.920	2.535	75.74	1.21	0.06
		5500	1.920	2.536	75.71	1.21	0.09
		5580	1.920	2.536	75.71	1.21	0.09
		5700	1.920	2.536	75.71	1.21	0.05
		5745	1.920	2.536	75.71	1.21	0.05
802.11n (HT40)	MIMO	5190	0.122	0.227	53.74	2.70	0.18
		5230	0.121	0.226	53.54	2.71	0.36
		5270	0.128	0.227	56.39	2.49	0.08
		5310	0.128	0.227	56.39	2.49	0.06
		5510	0.123	0.227	54.19	2.66	0.26
		5550	0.123	0.227	54.19	2.66	0.19
		5670	0.122	0.227	53.74	2.70	0.21
		5755	0.123	0.228	53.95	2.68	0.29
802.11ac (VHT20)	MIMO	5180	1.932	2.551	75.74	1.21	0.03
		5200	1.931	2.551	75.70	1.21	0.04
		5240	1.932	2.552	75.71	1.21	0.03
		5260	1.931	2.551	75.70	1.21	0.03
		5300	1.932	2.552	75.71	1.21	0.03
		5320	1.932	2.552	75.71	1.21	0.03
		5500	1.932	2.552	75.71	1.21	0.03
		5580	1.931	2.431	79.43	1.00	0.03
5700	1.932	2.431	79.47	1.00	0.04		

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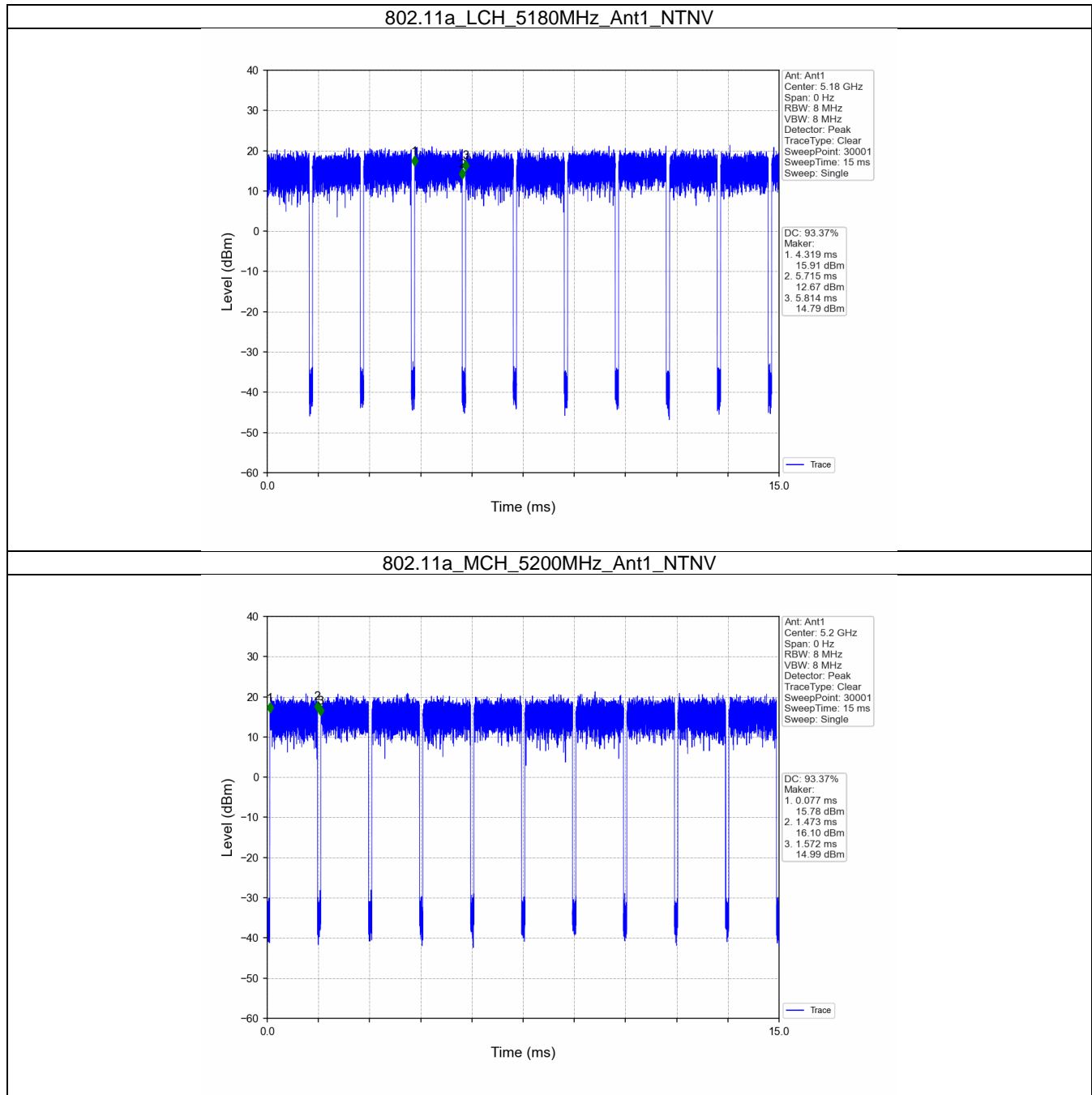
		5745	1.932	2.552	75.71	1.21	0.03
		5785	1.931	2.551	75.70	1.21	0.03
		5825	1.932	2.552	75.71	1.21	0.03
802.11ac (VHT40)	MIMO	5190	1.544	2.043	75.58	1.22	0.00
		5230	1.543	2.044	75.49	1.22	0.03
		5270	1.544	2.043	75.58	1.22	0.00
		5310	1.544	2.043	75.58	1.22	0.00
		5510	1.544	2.044	75.54	1.22	0.05
		5550	1.544	2.043	75.58	1.22	0.00
		5670	1.544	2.043	75.58	1.22	0.04
		5755	1.543	2.044	75.49	1.22	0.03
		5795	1.543	2.044	75.49	1.22	0.05
802.11ac (VHT80)	MIMO	5210	0.460	0.960	47.92	3.20	0.05
		5290	0.460	0.959	47.97	3.19	0.03
		5530	0.460	0.960	47.92	3.20	0.03
		5610	0.460	0.959	47.97	3.19	0.02
		5775	0.460	0.959	47.97	3.19	0.05



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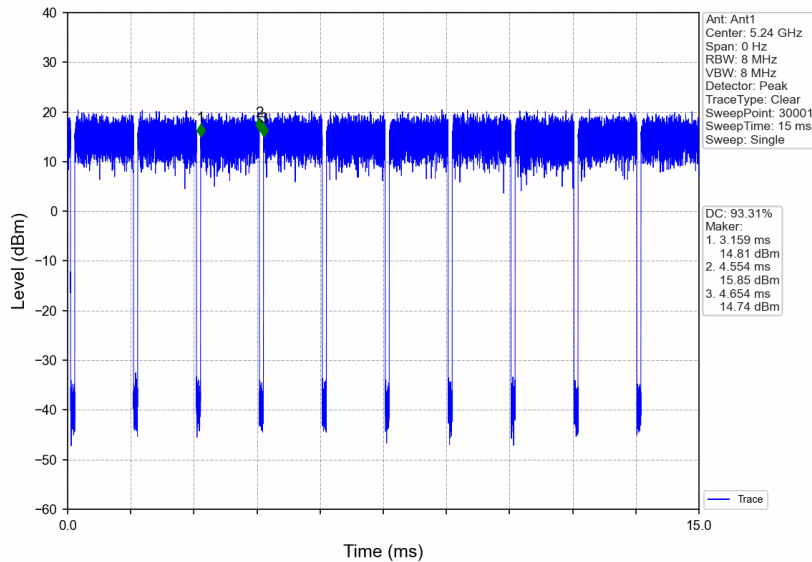
1.1.2 Test Graph



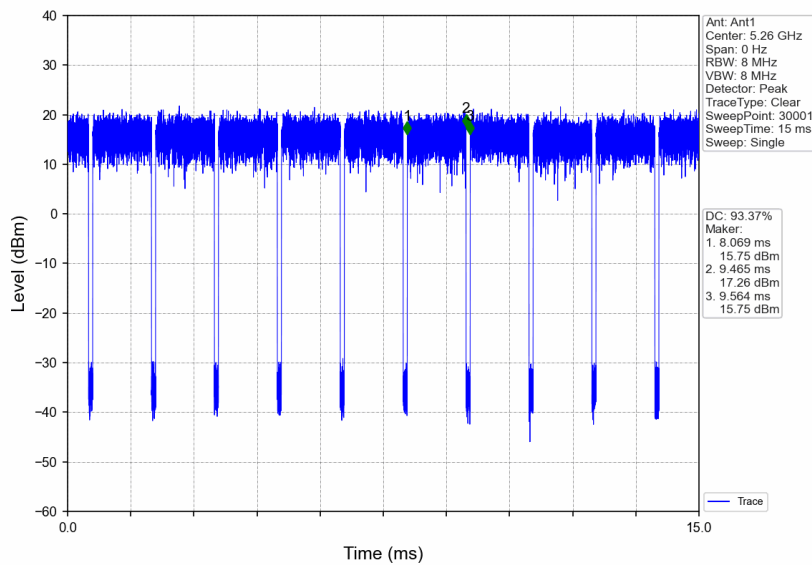
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



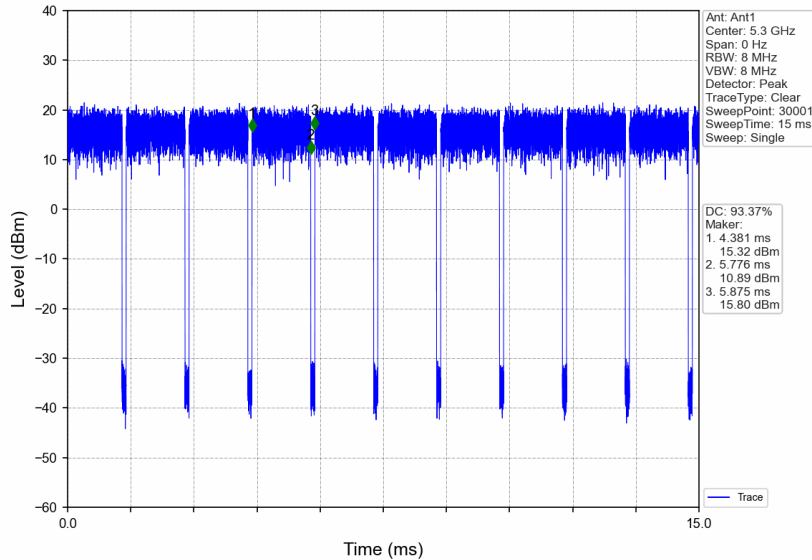
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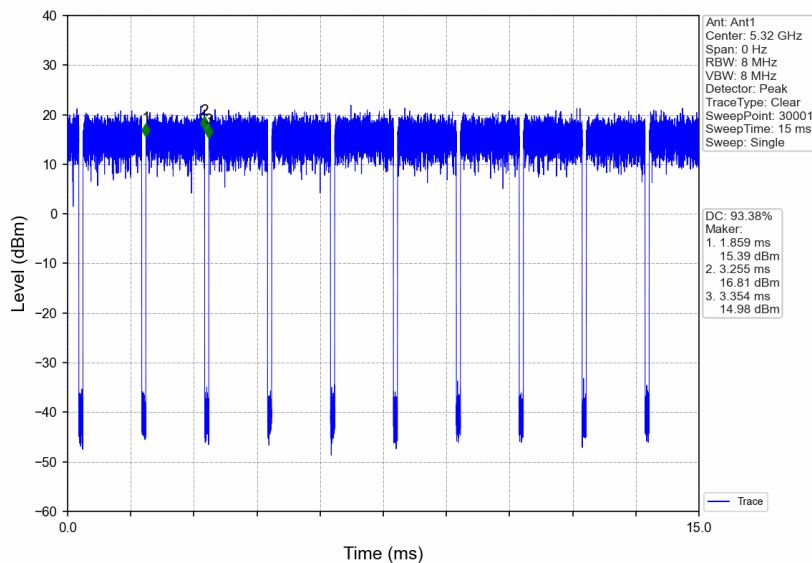
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



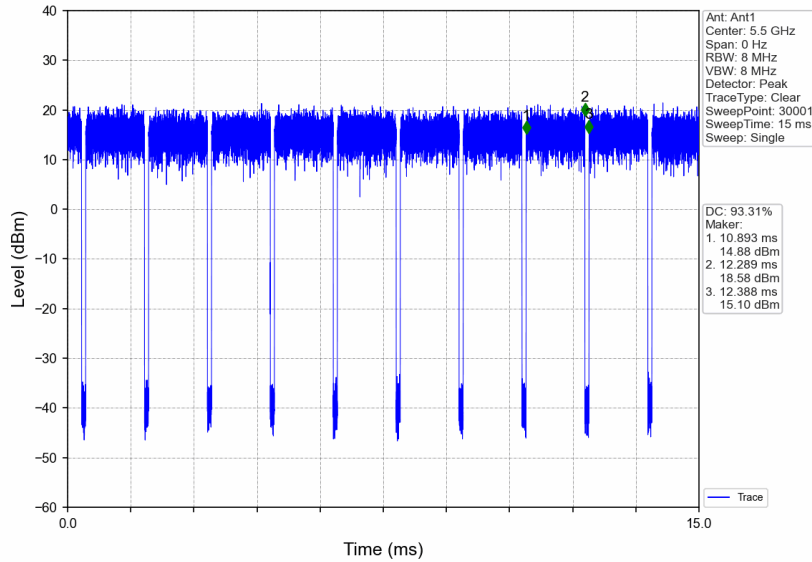
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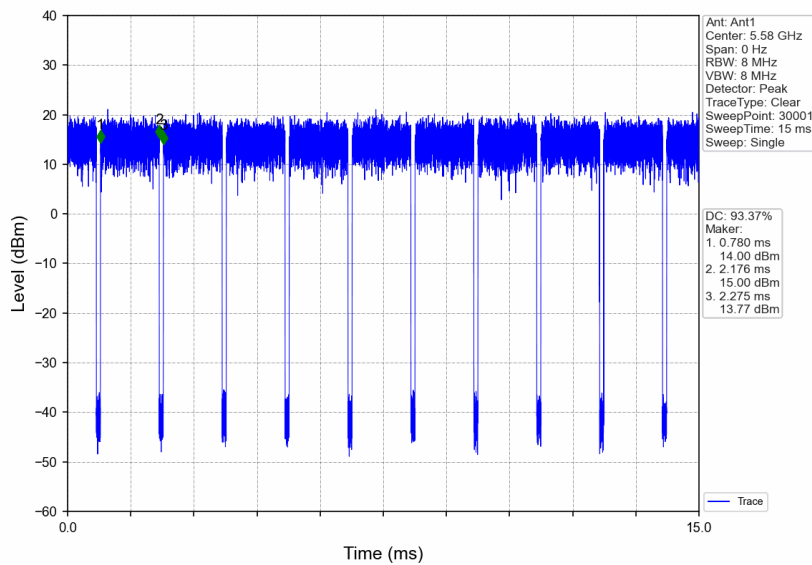
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



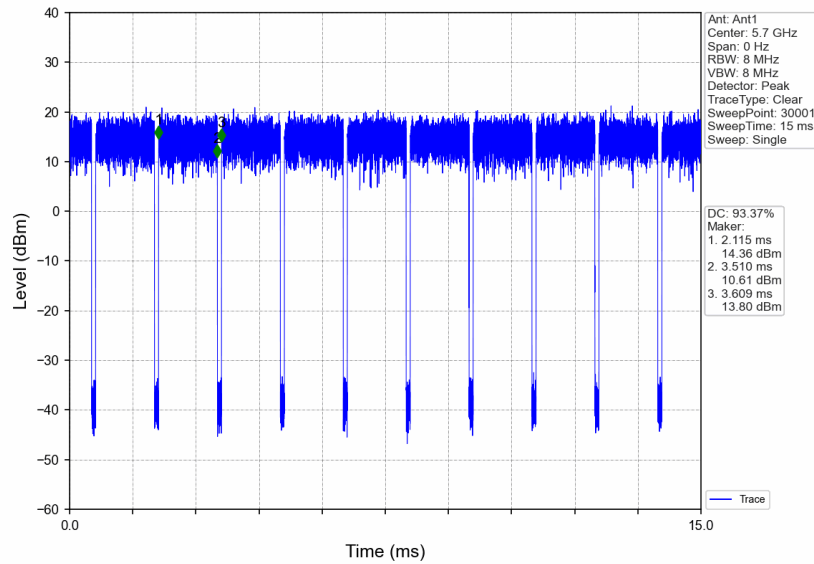
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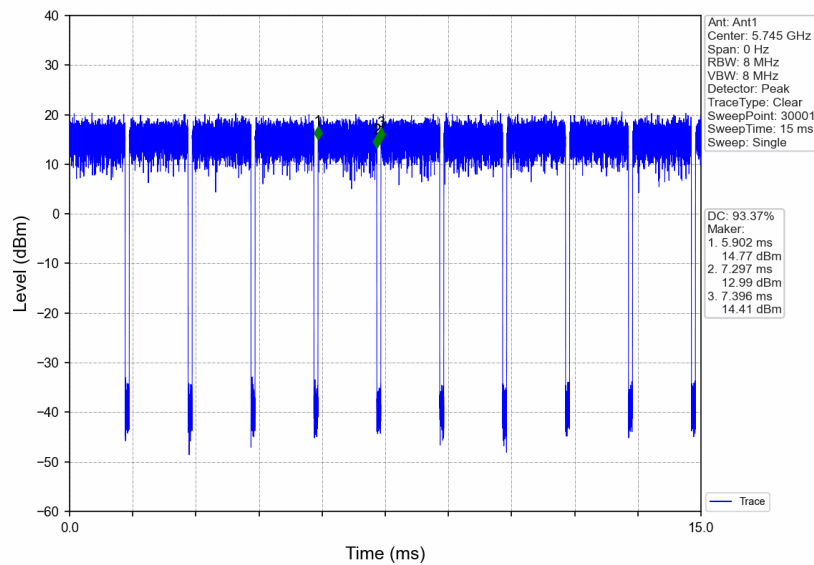
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



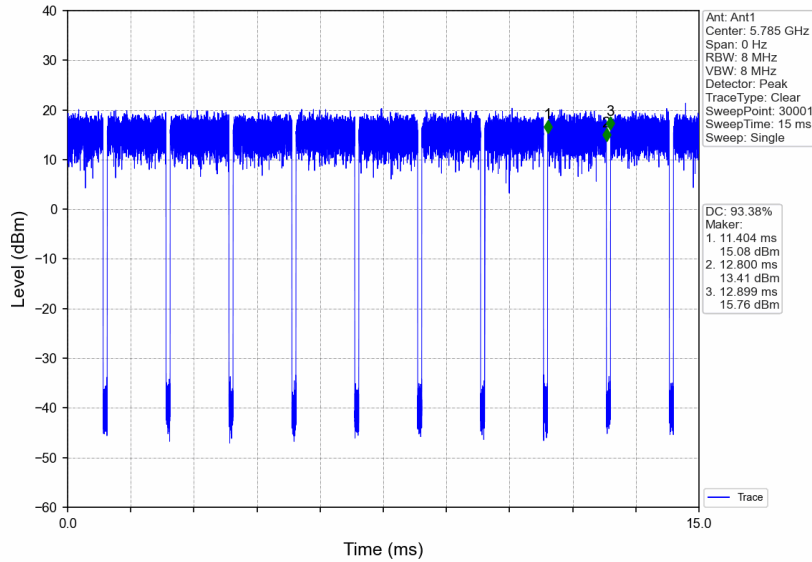
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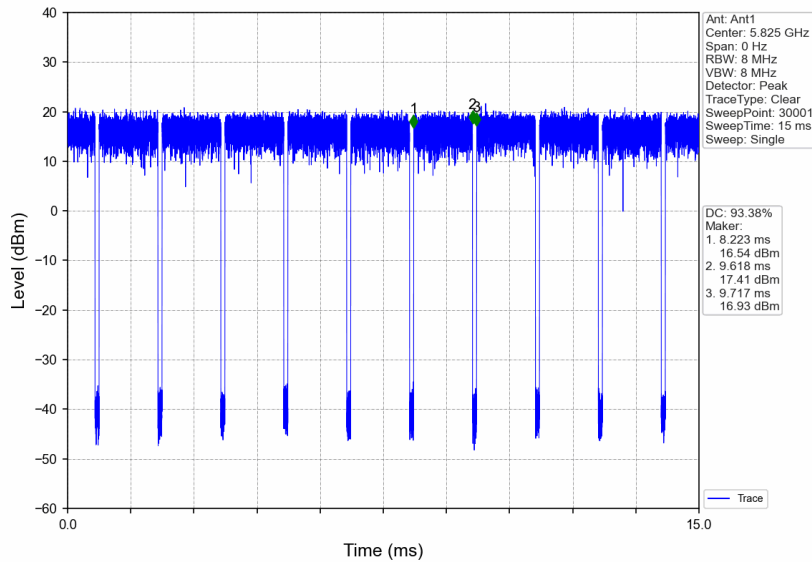
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



802.11a\_HCH\_5825MHz\_Ant1\_NTNV

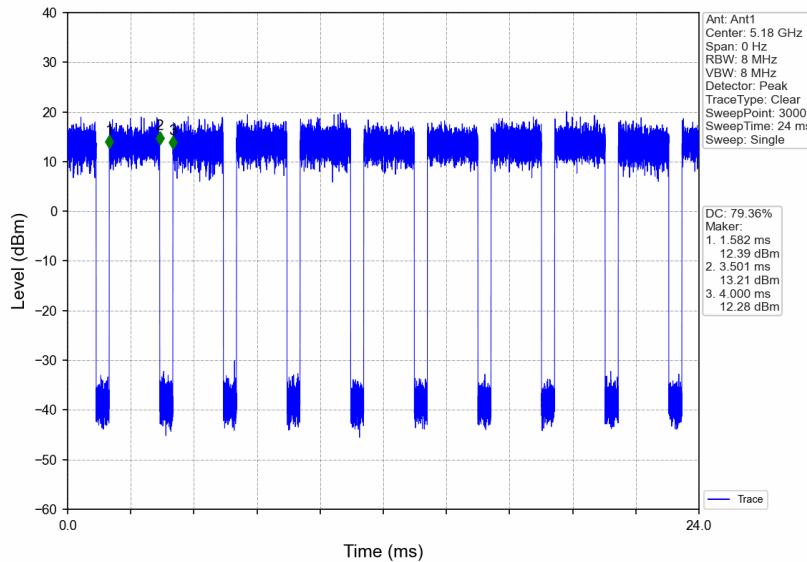


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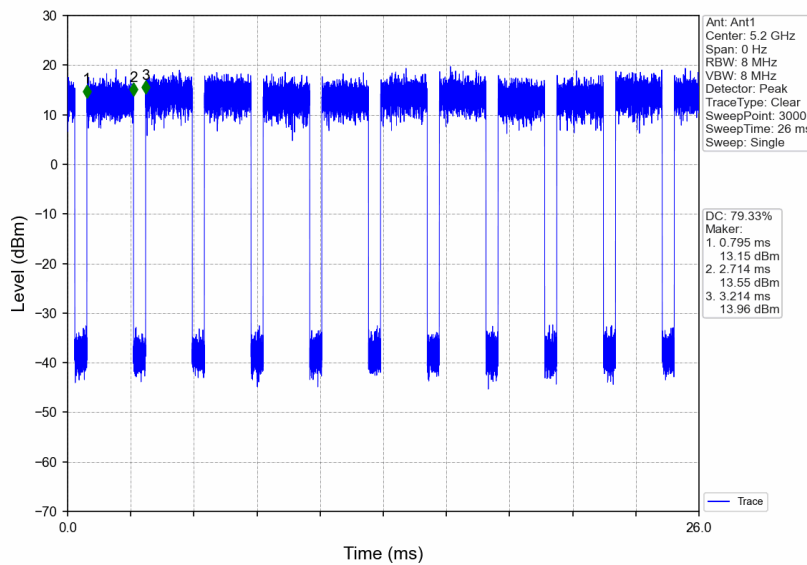
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



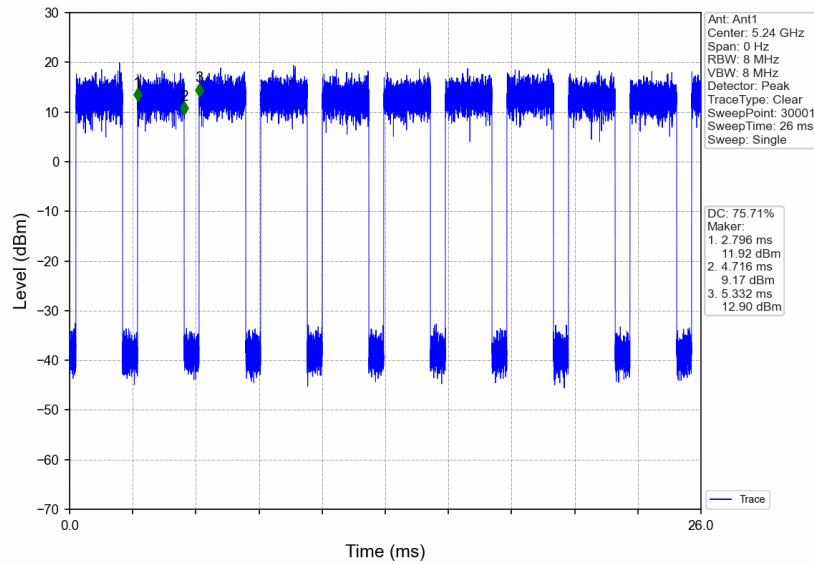
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



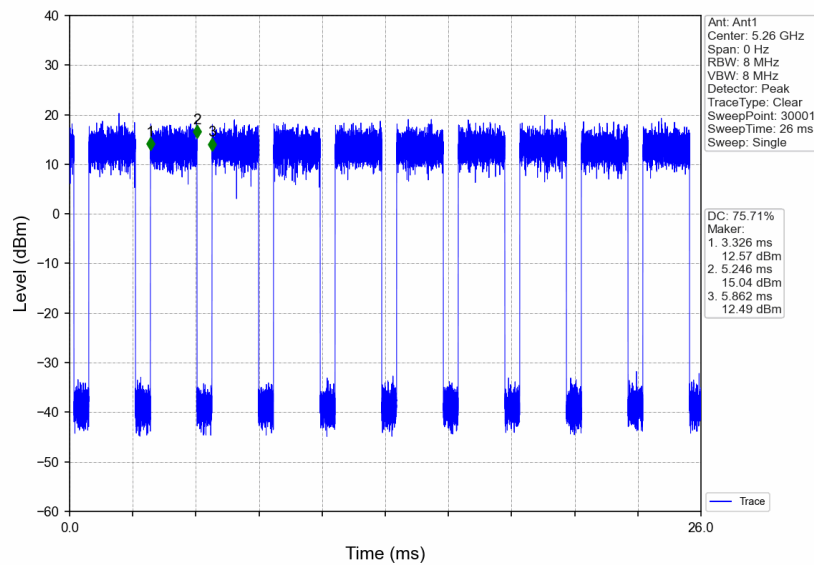
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



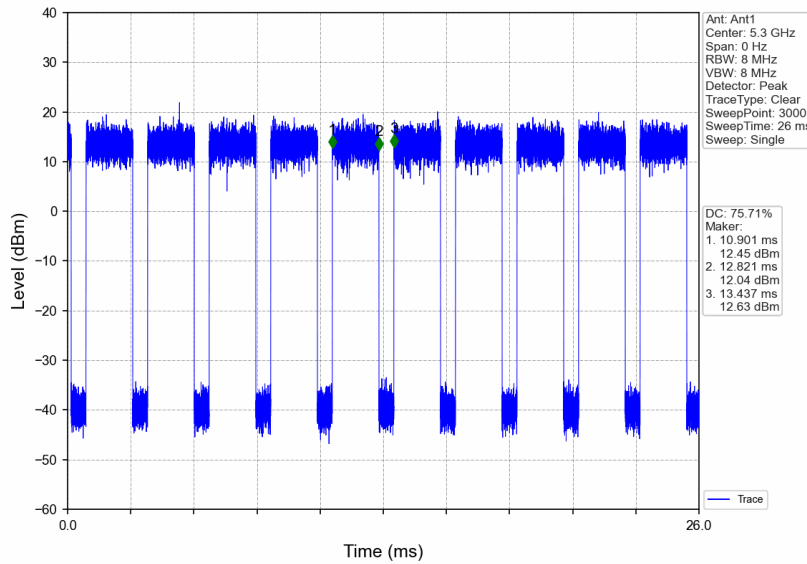
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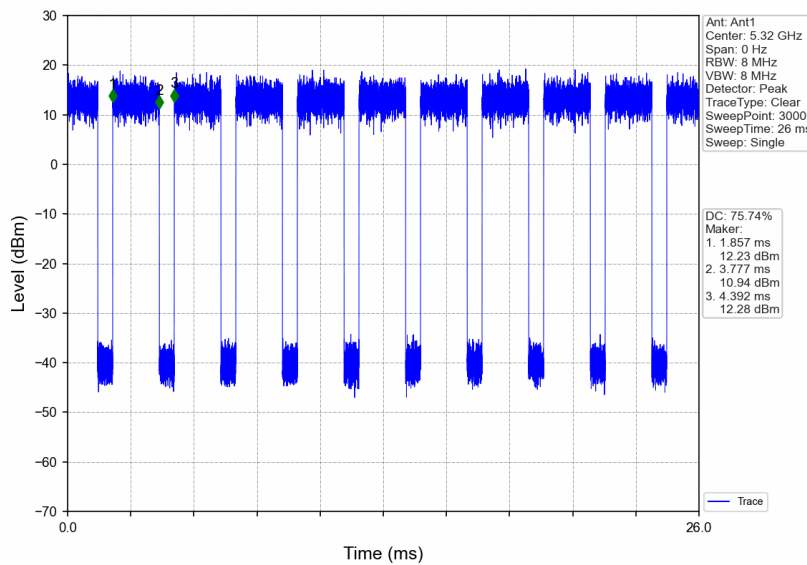
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802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



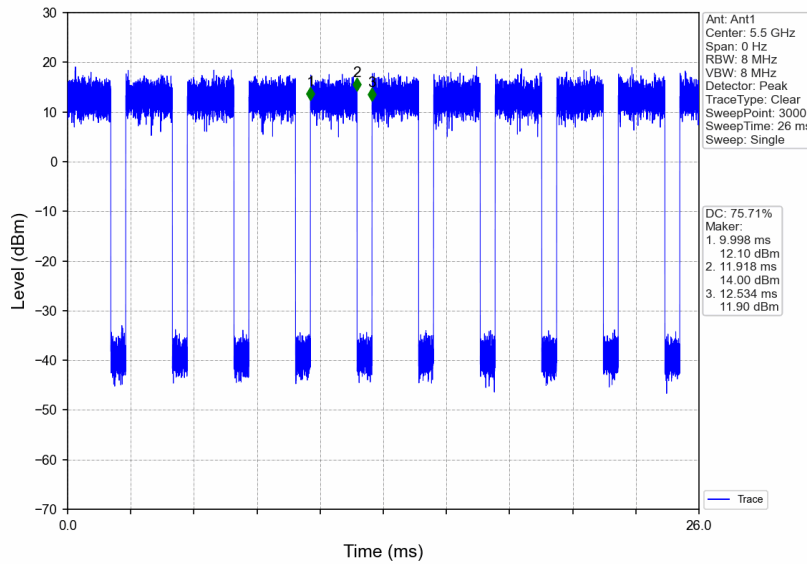
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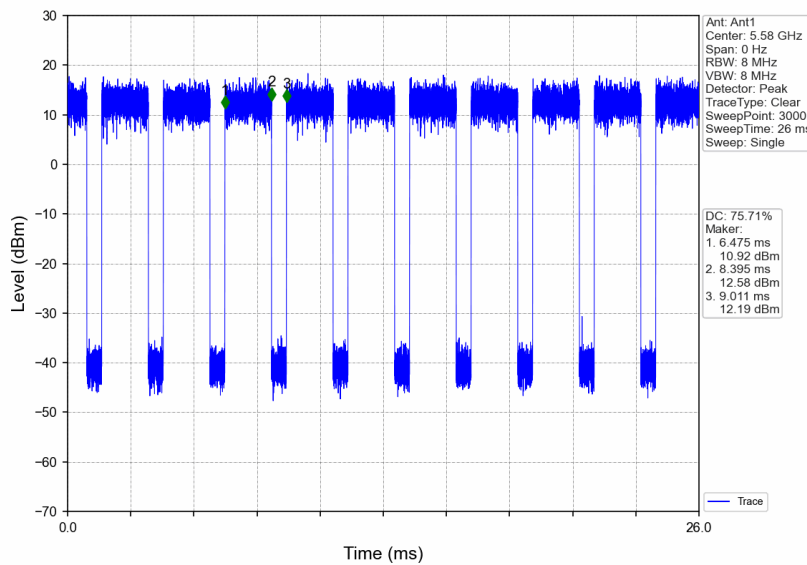
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802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV

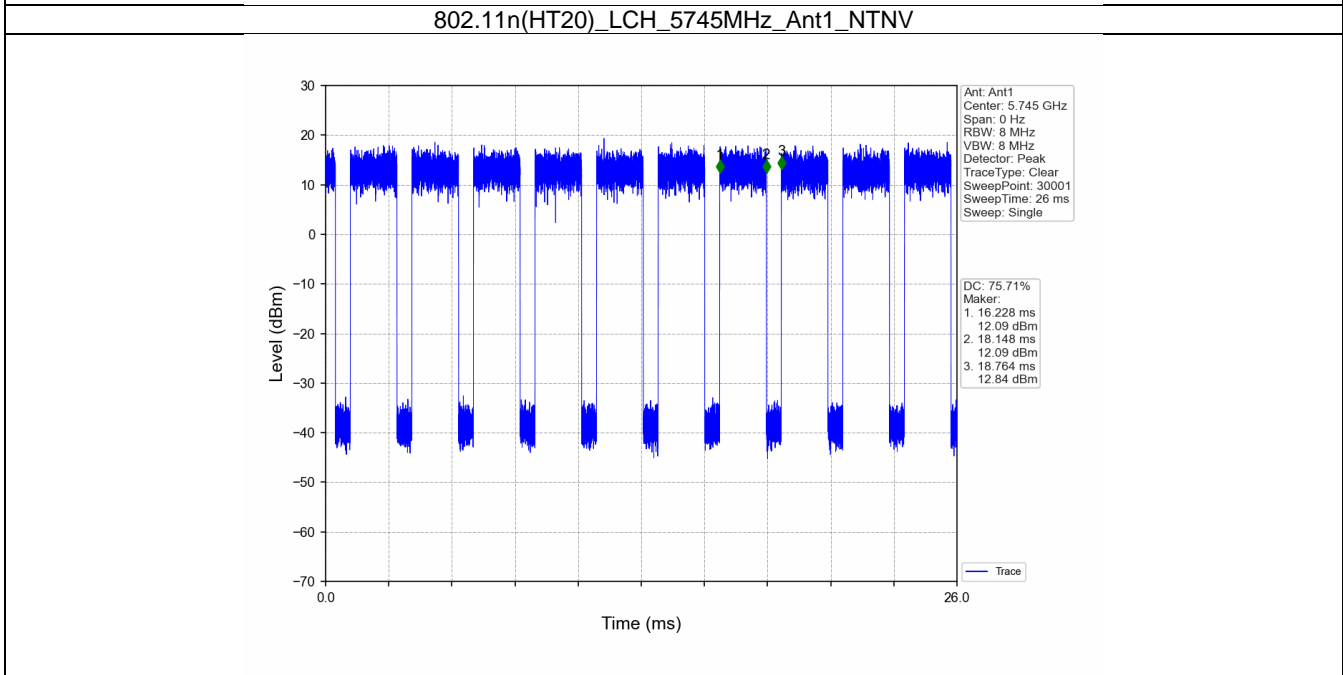
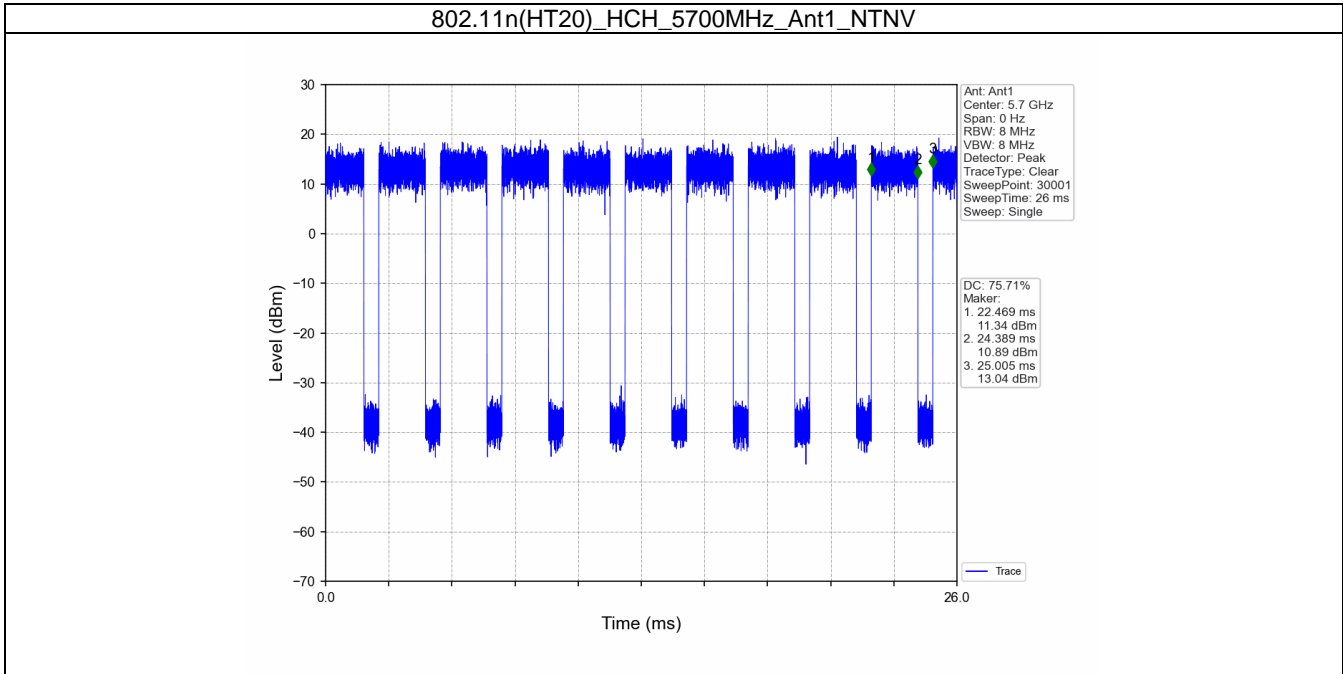


802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



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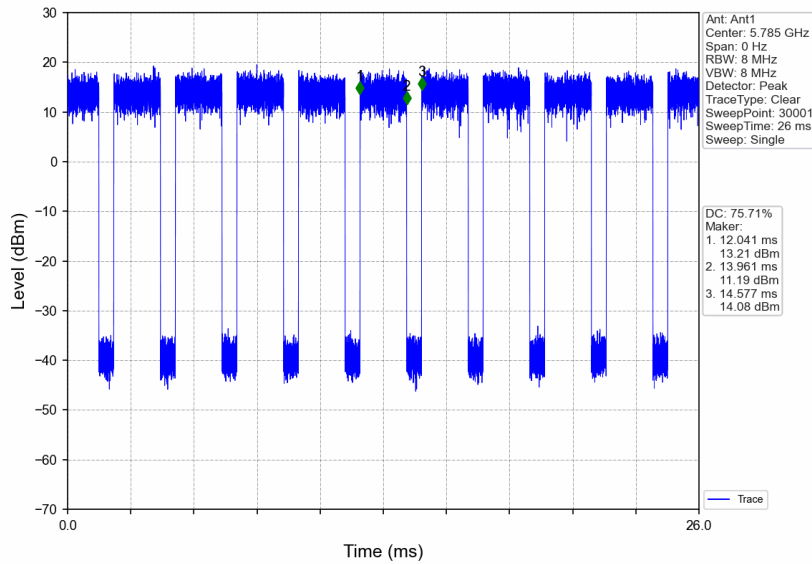
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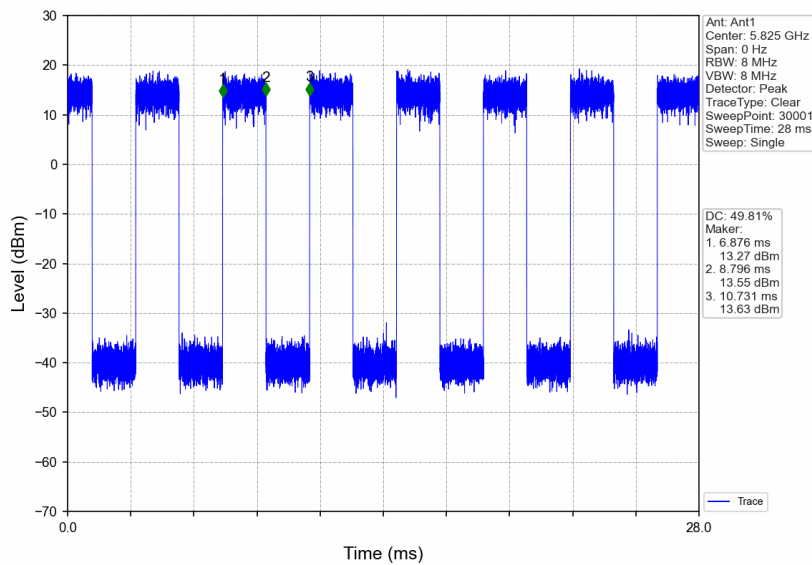
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



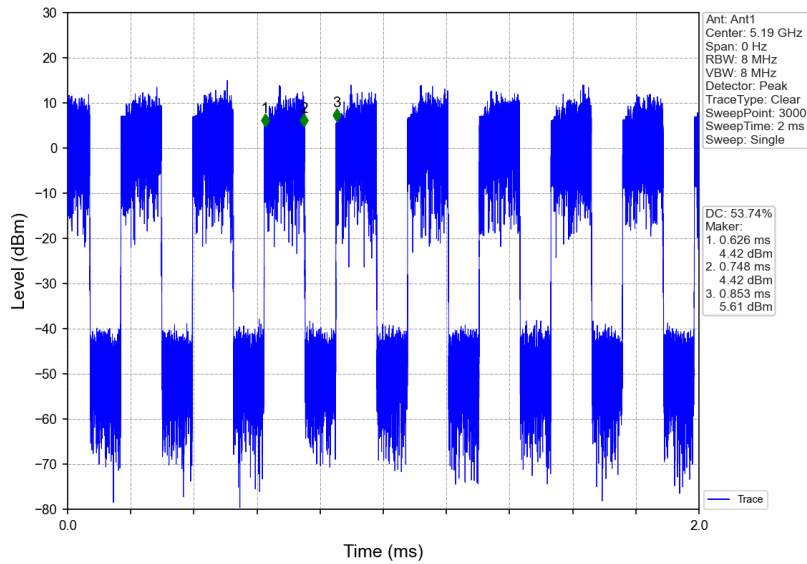
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



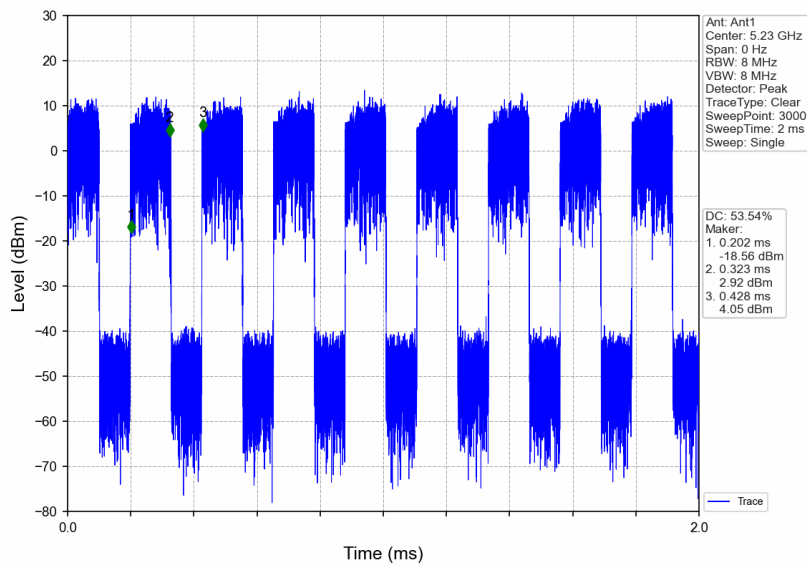
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



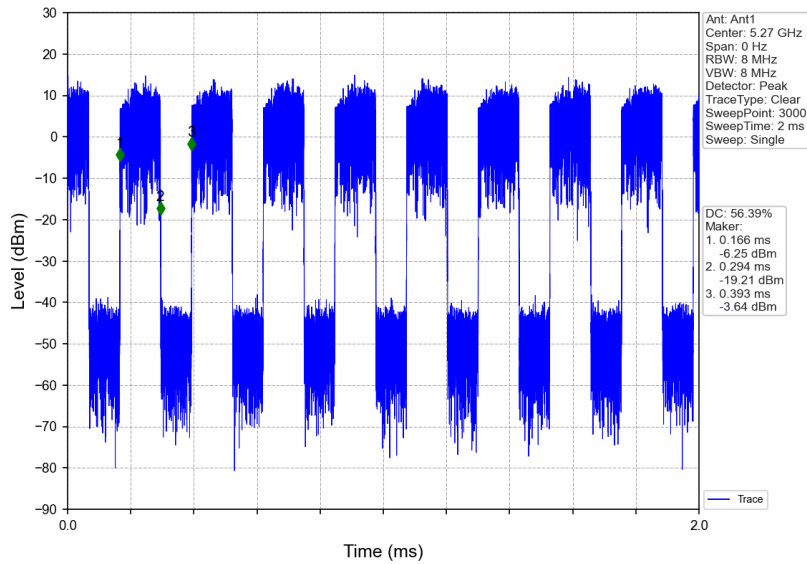
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



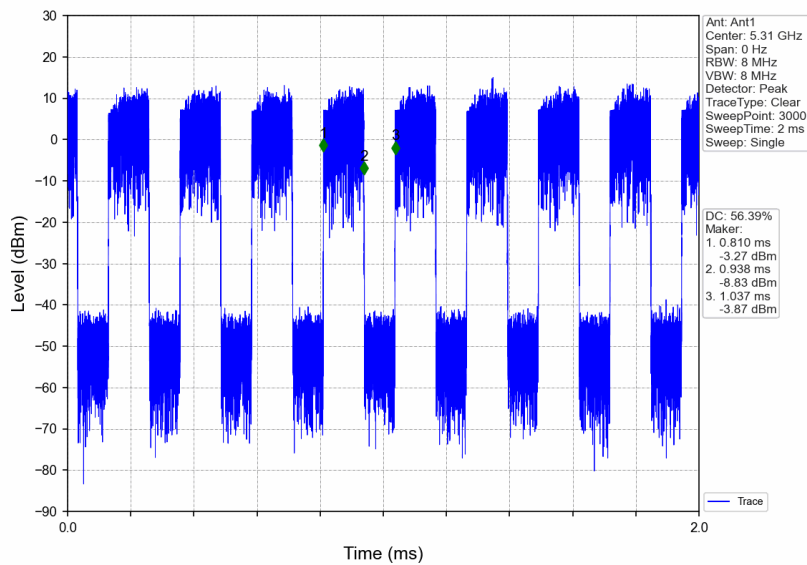
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802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV

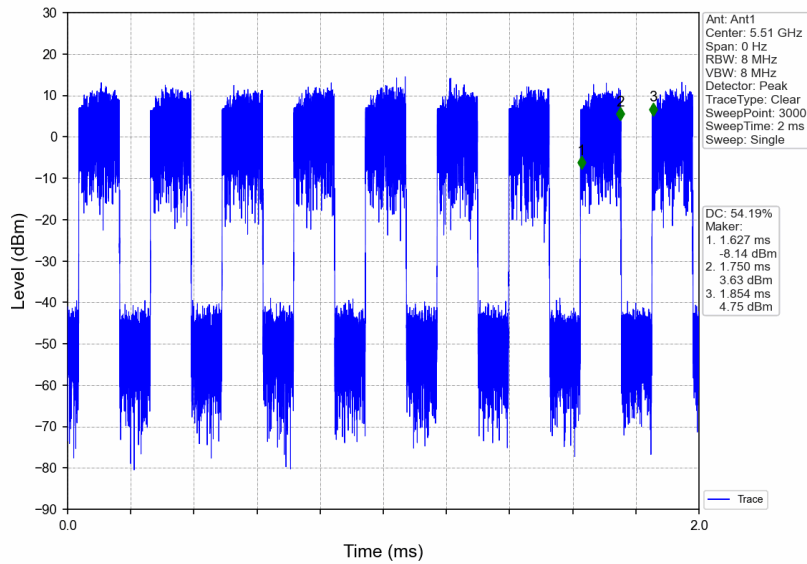


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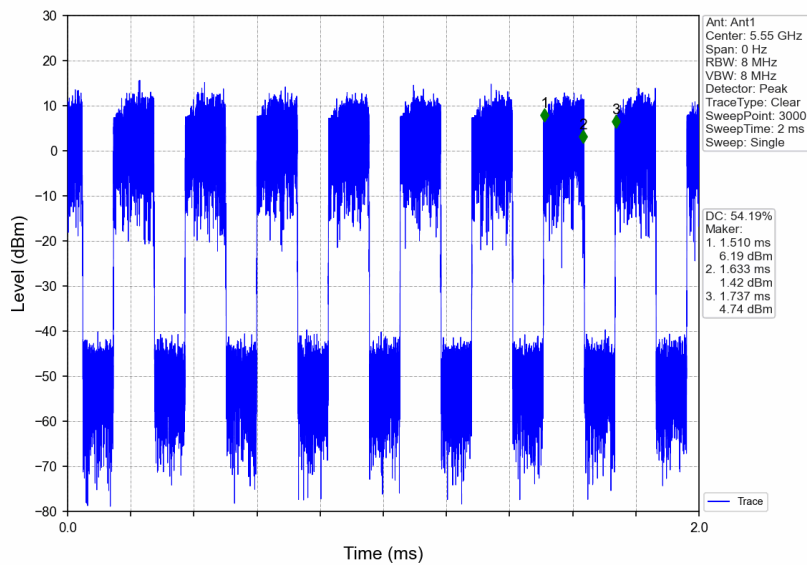
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802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



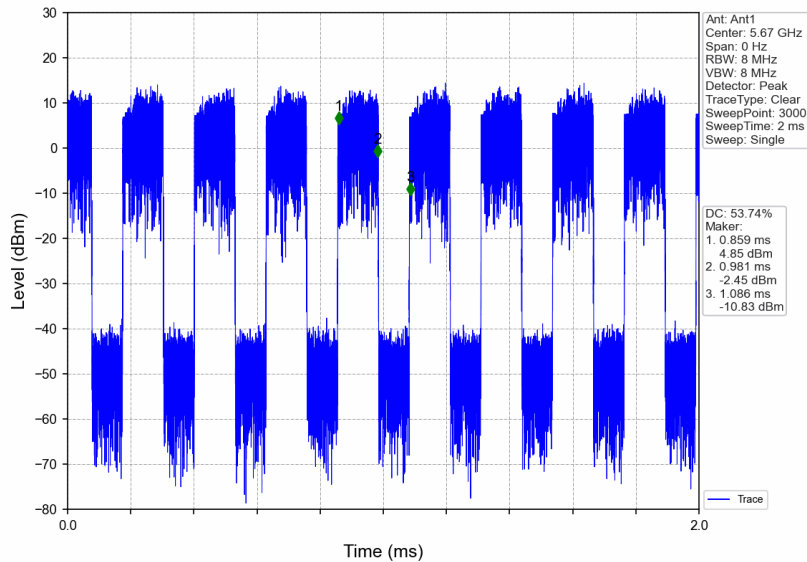
802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



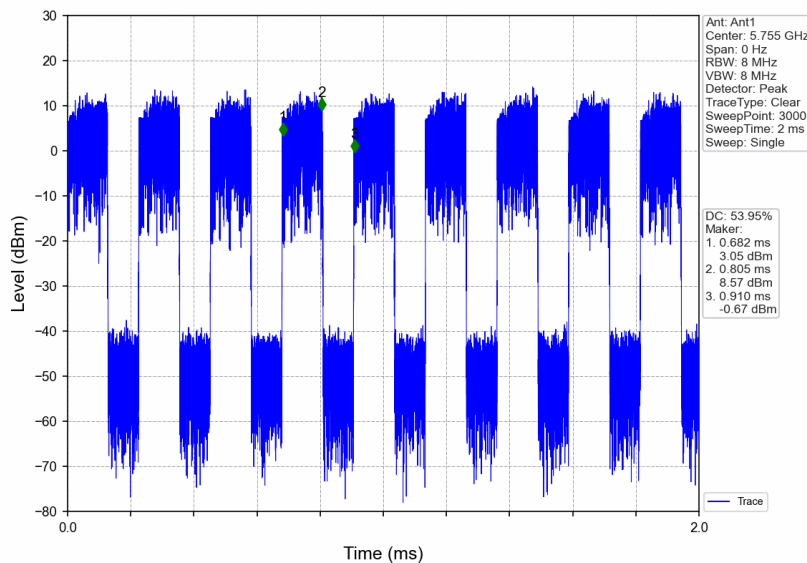
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802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



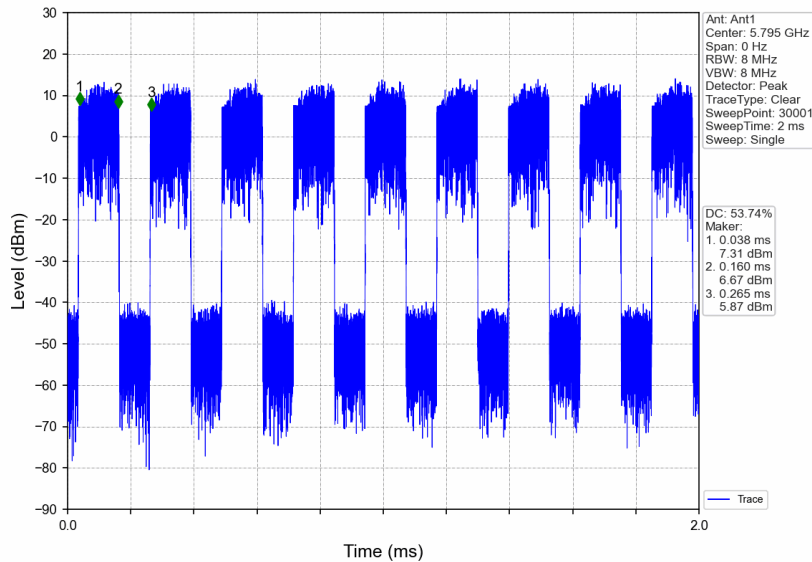
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



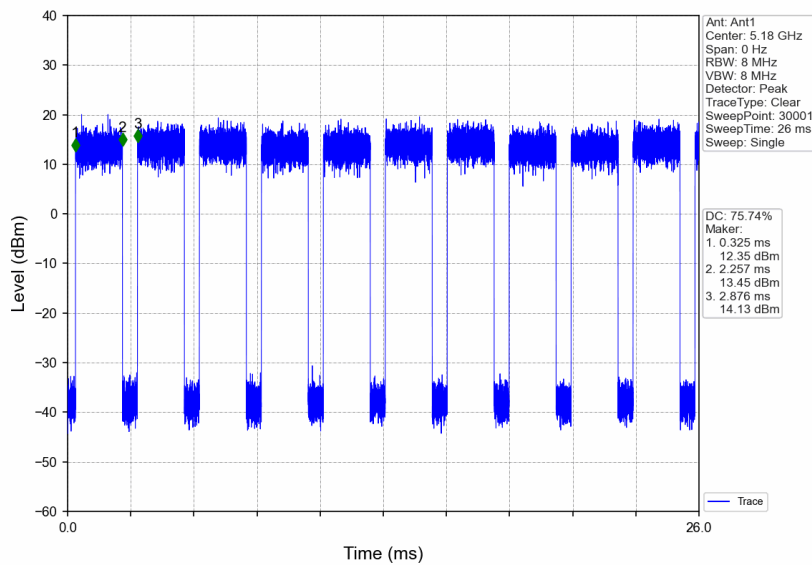
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV

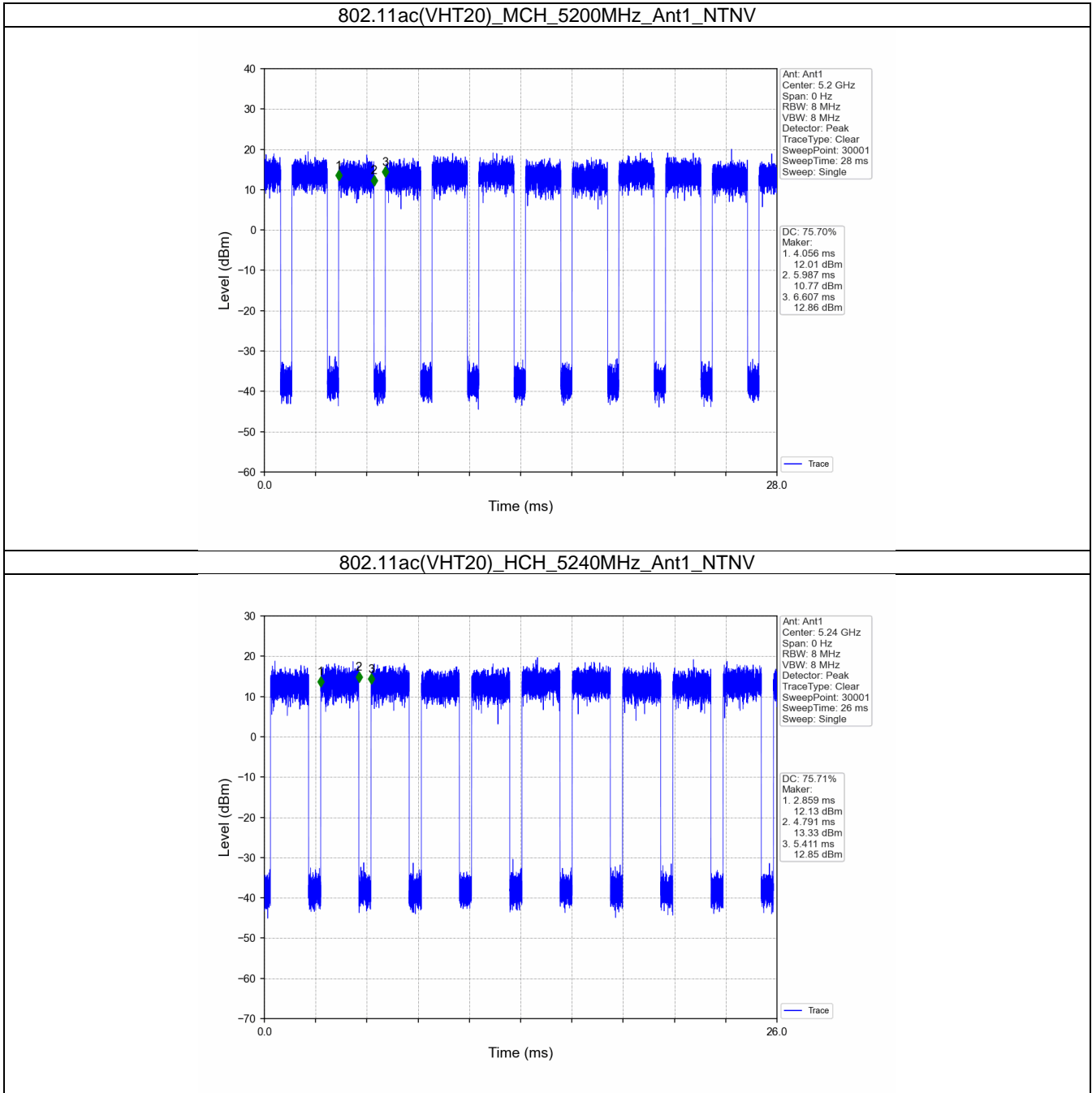


802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



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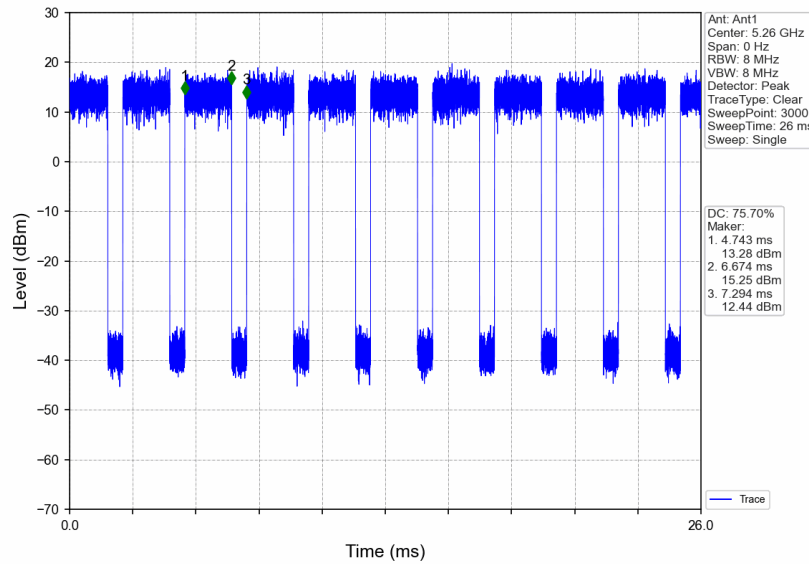
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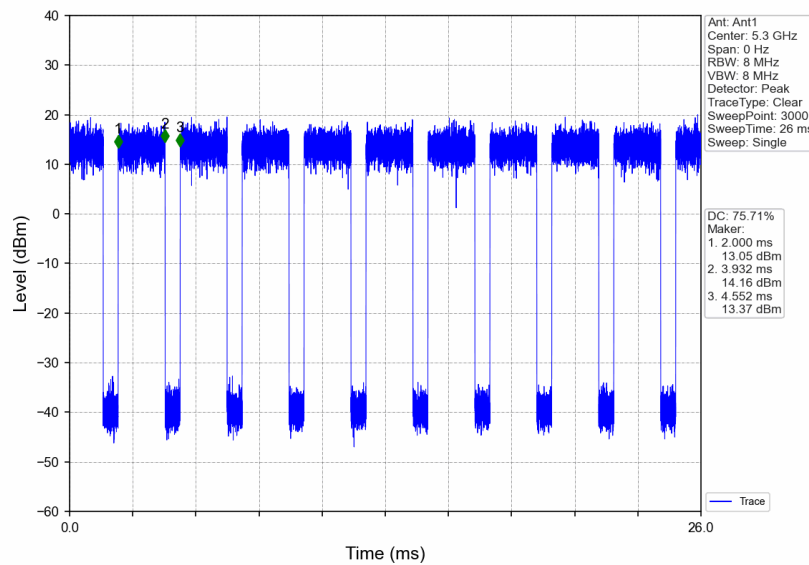
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802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV

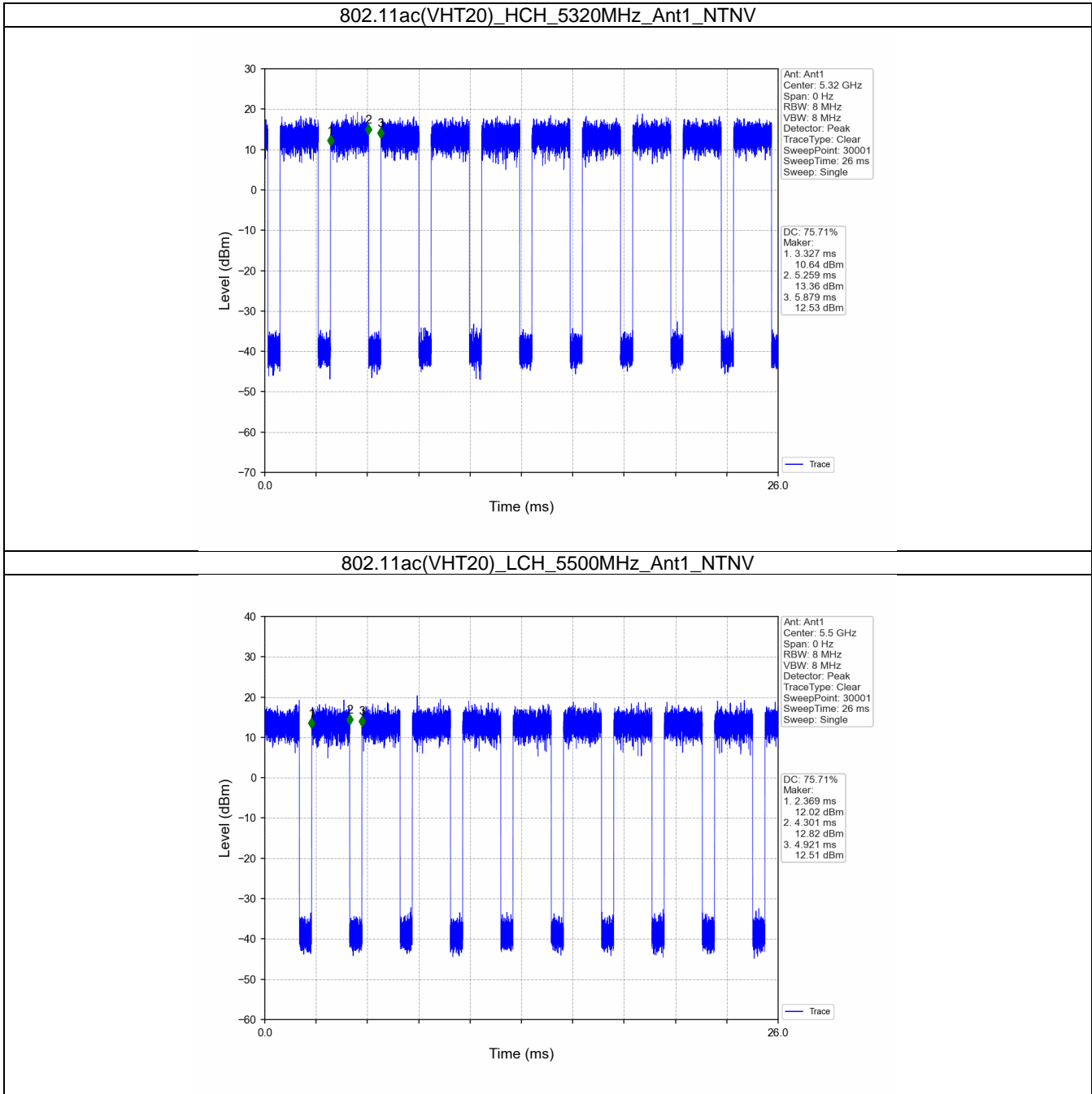


802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



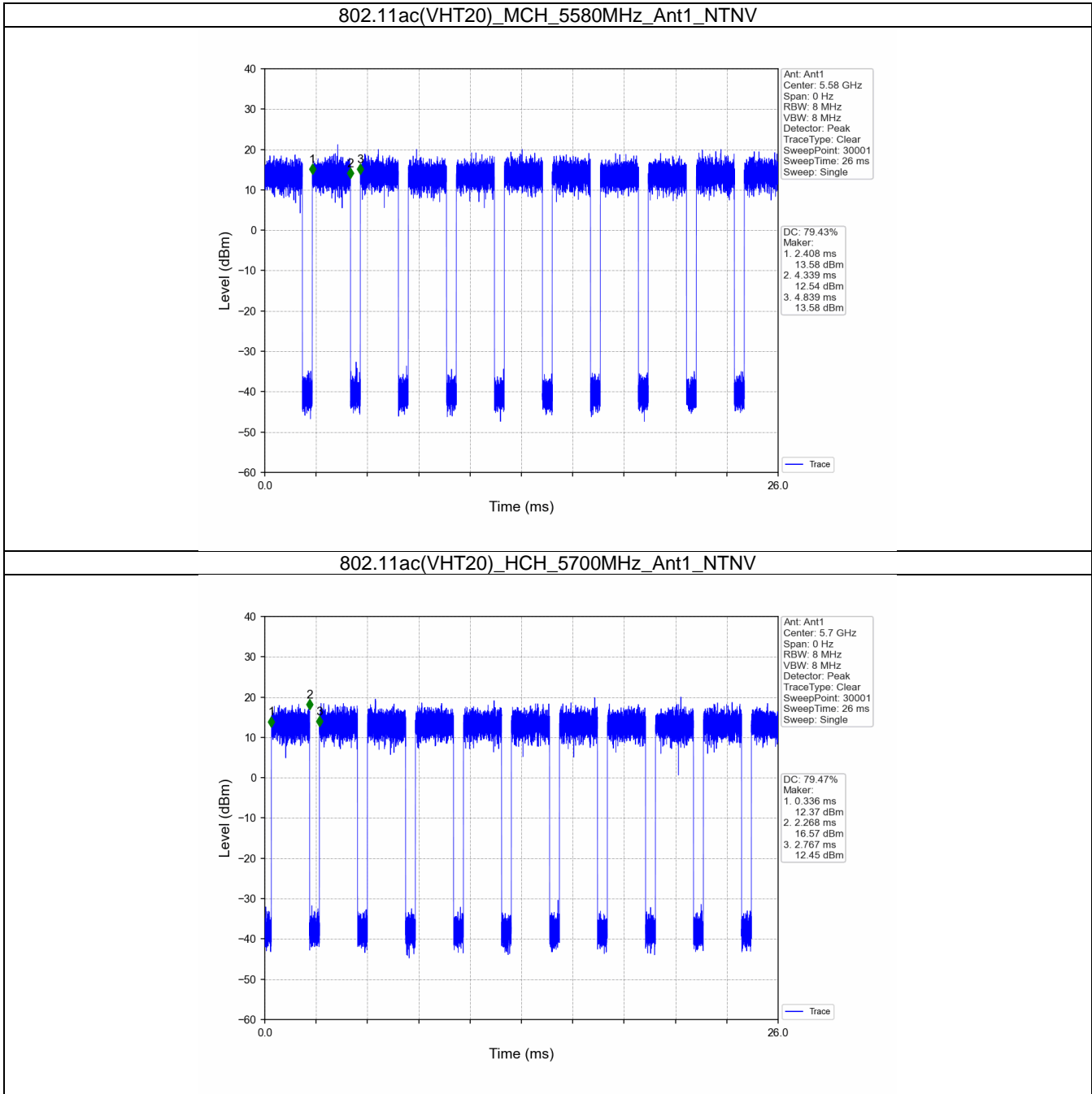
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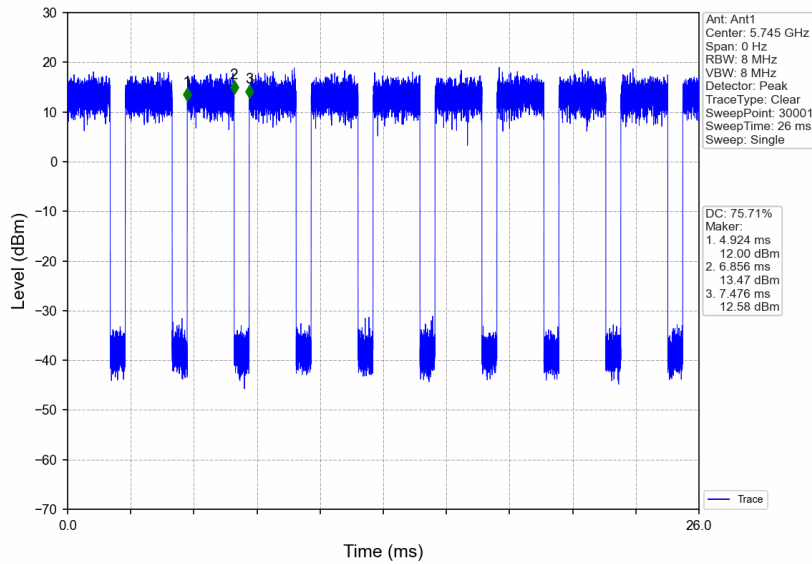
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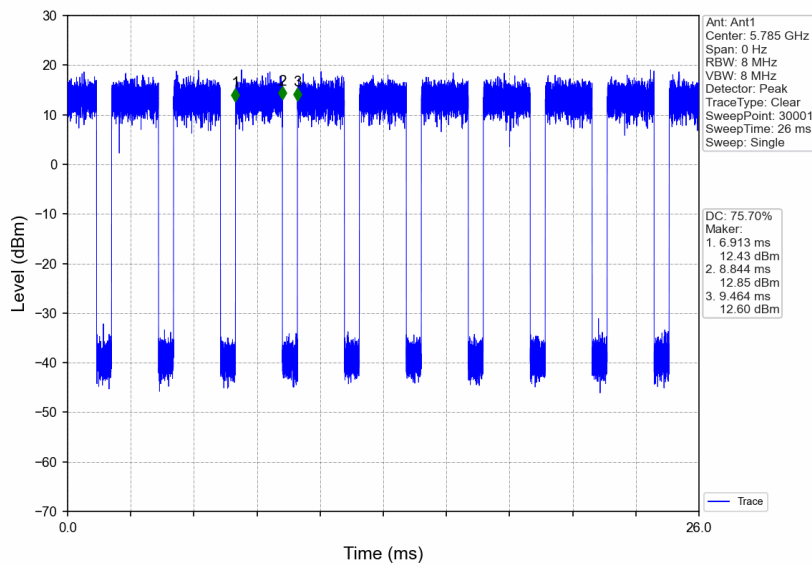
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



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

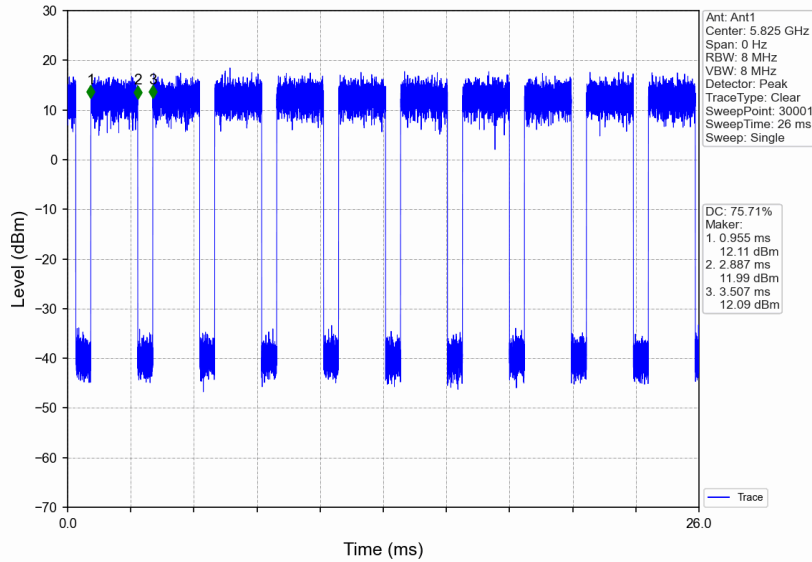


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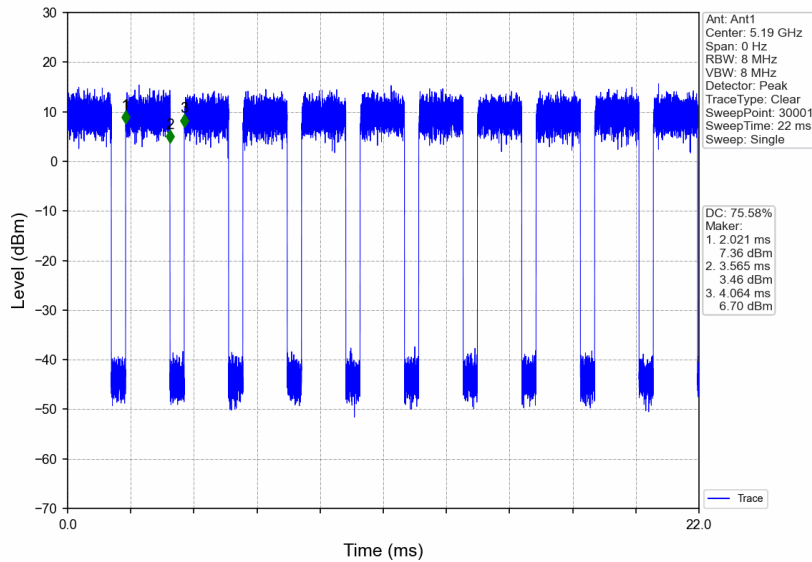
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



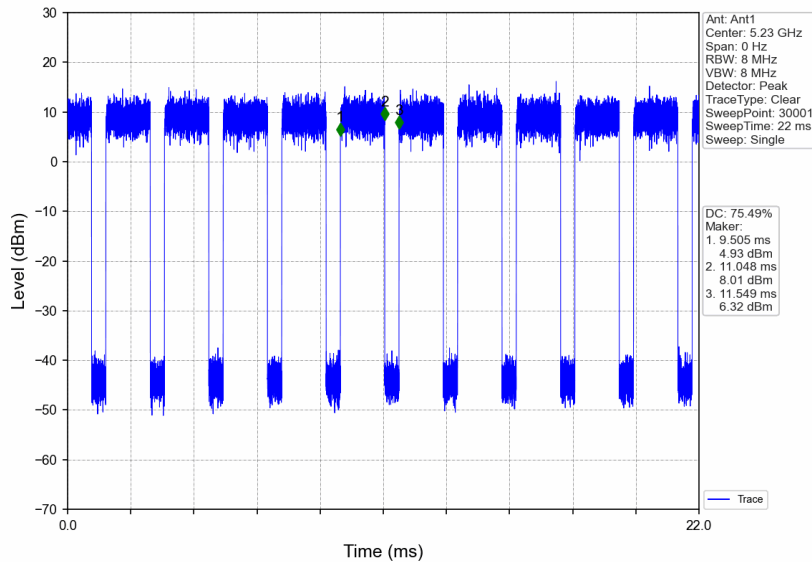
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



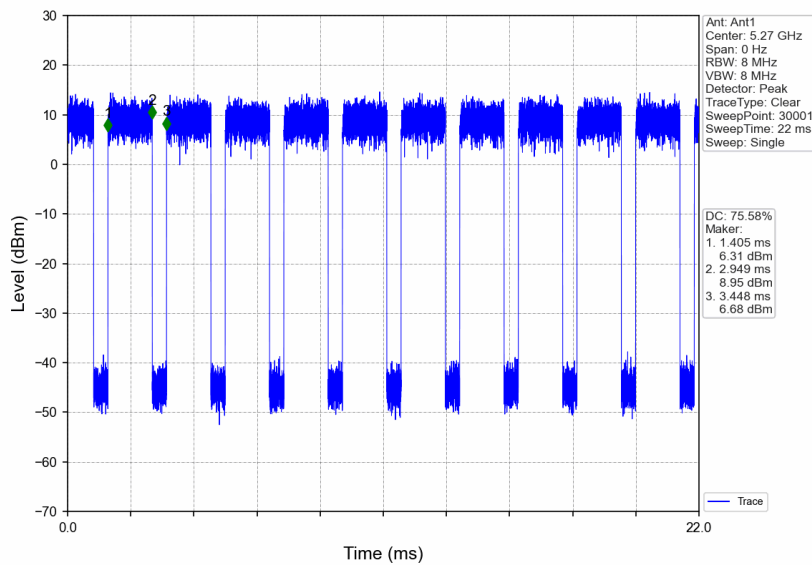
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



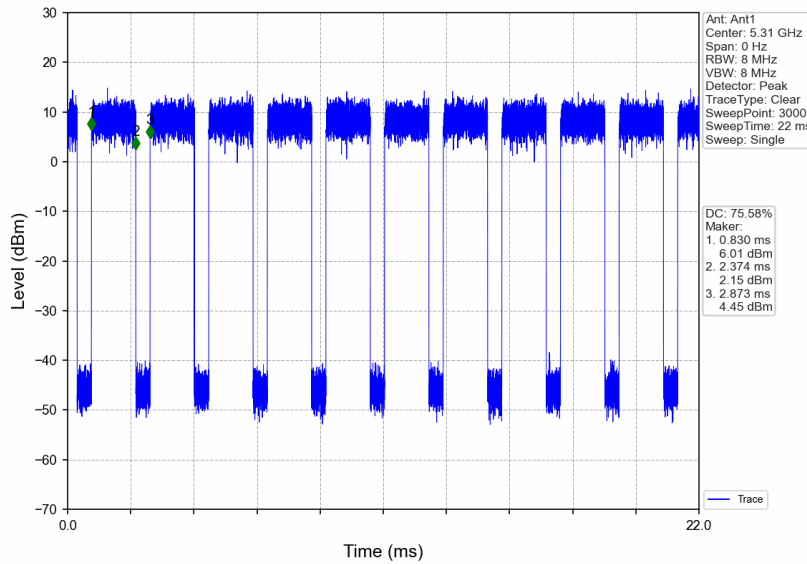
802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



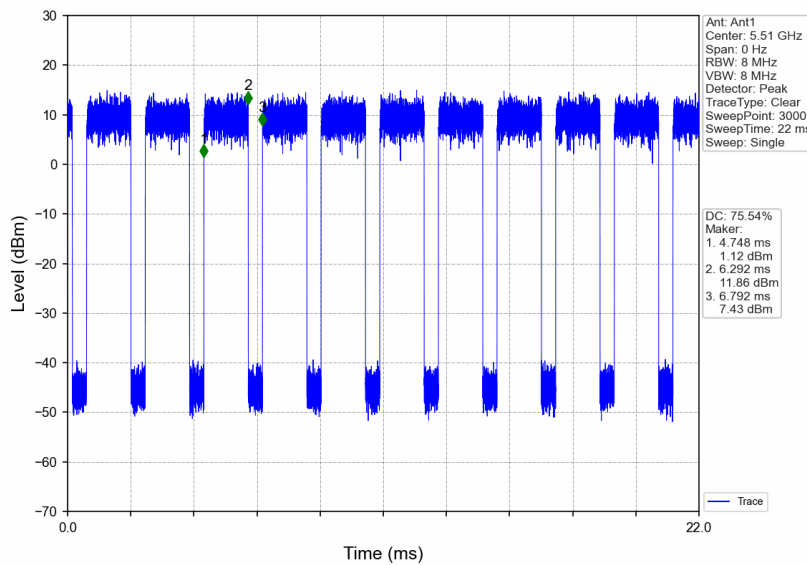
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802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV

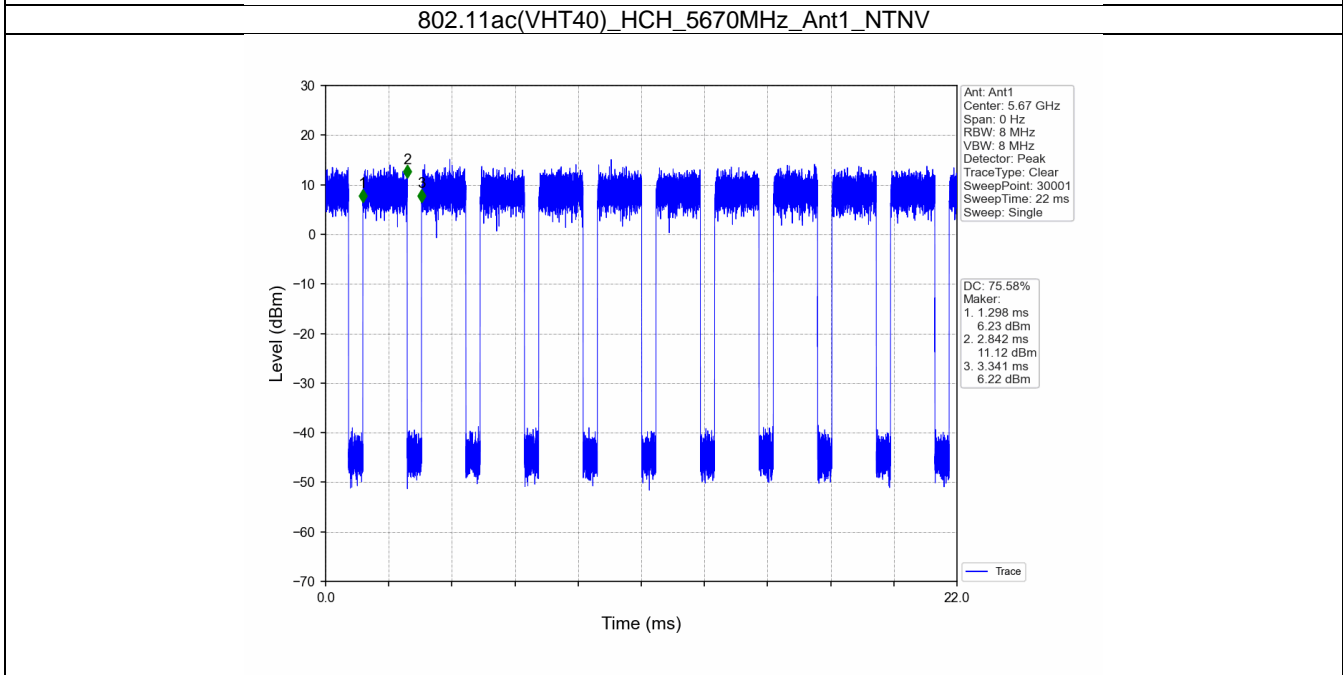
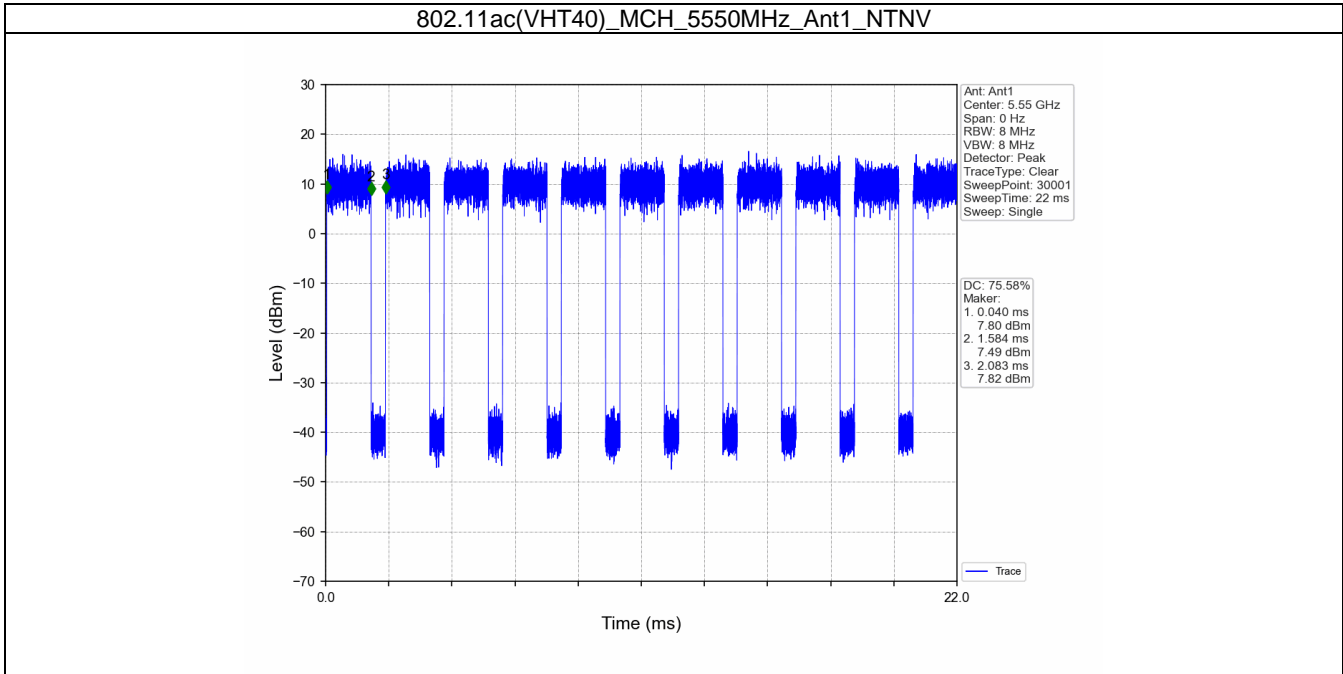


802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



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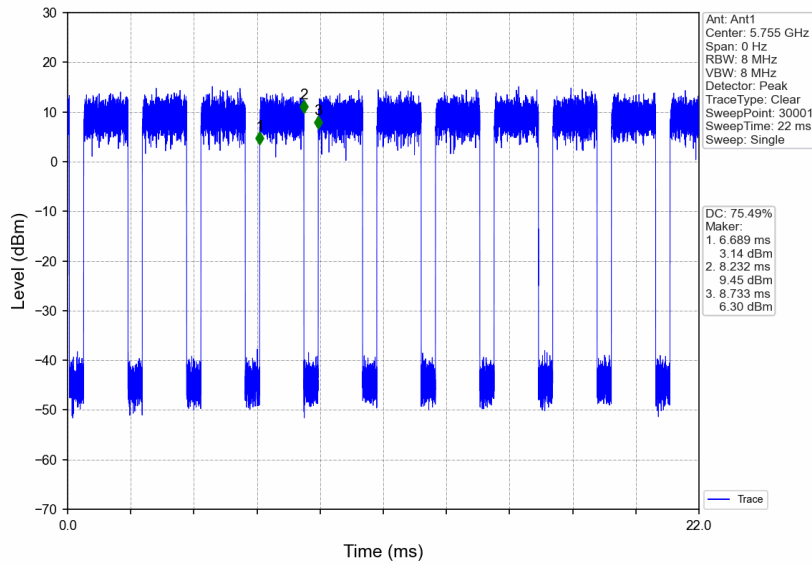
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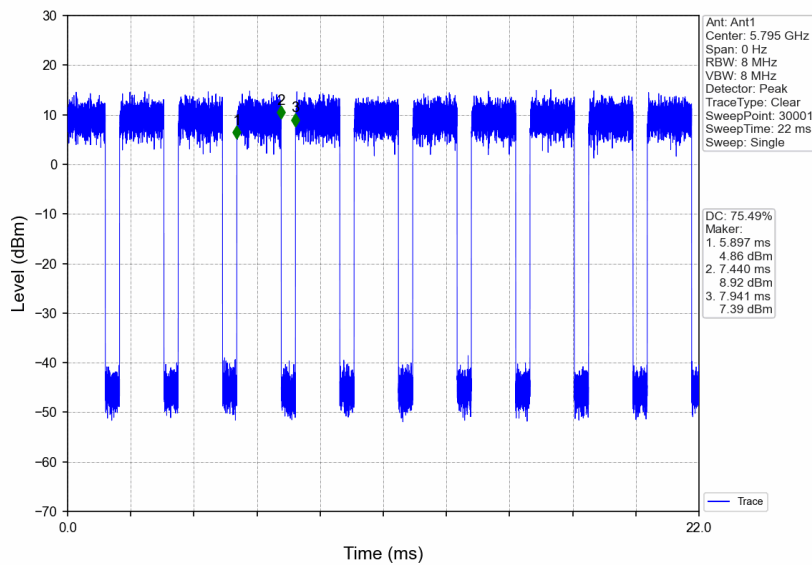
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



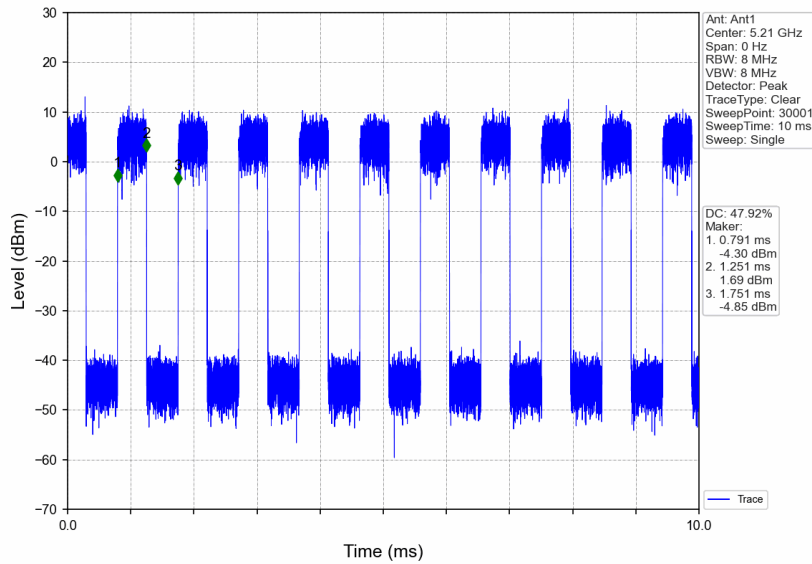
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



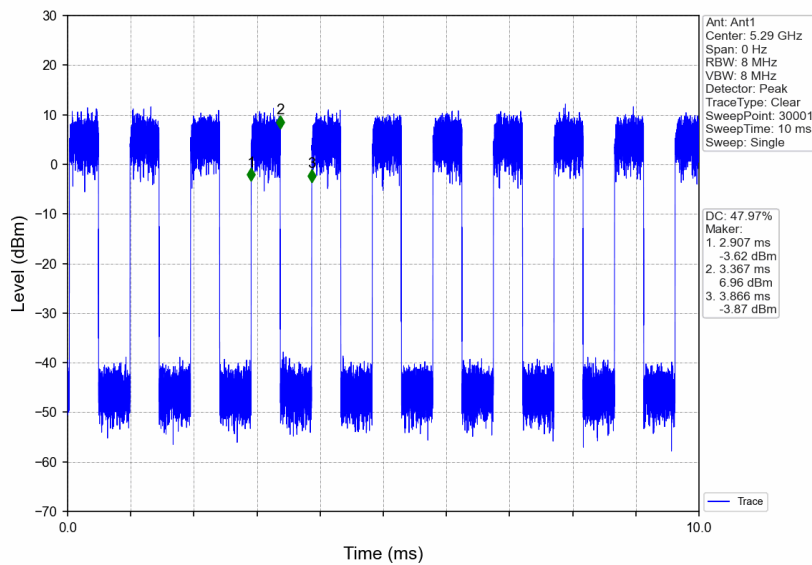
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



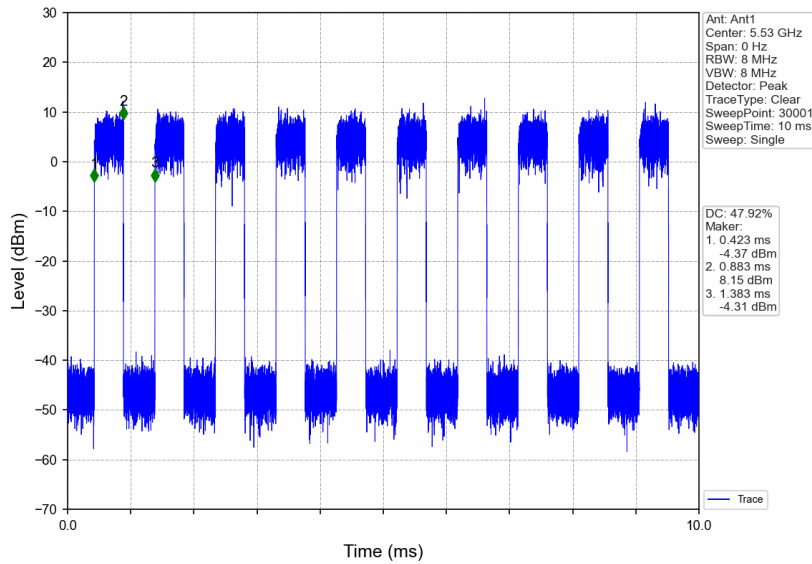
802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



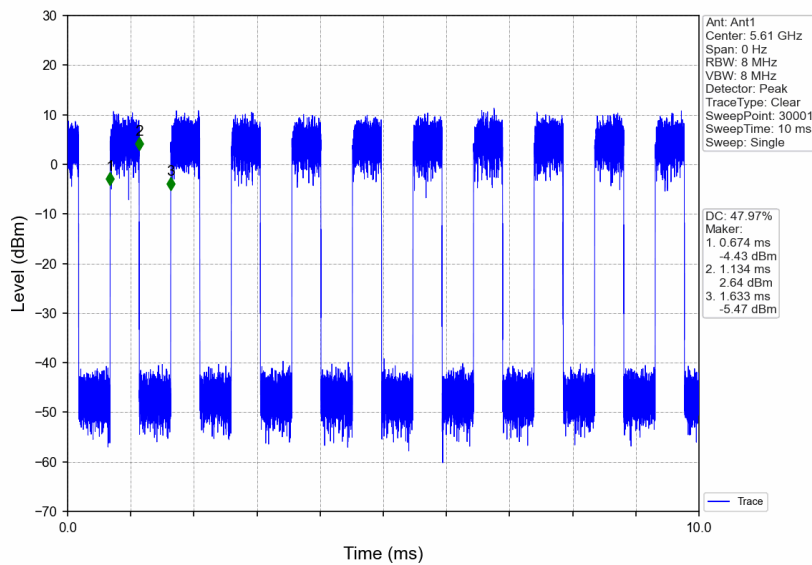
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV

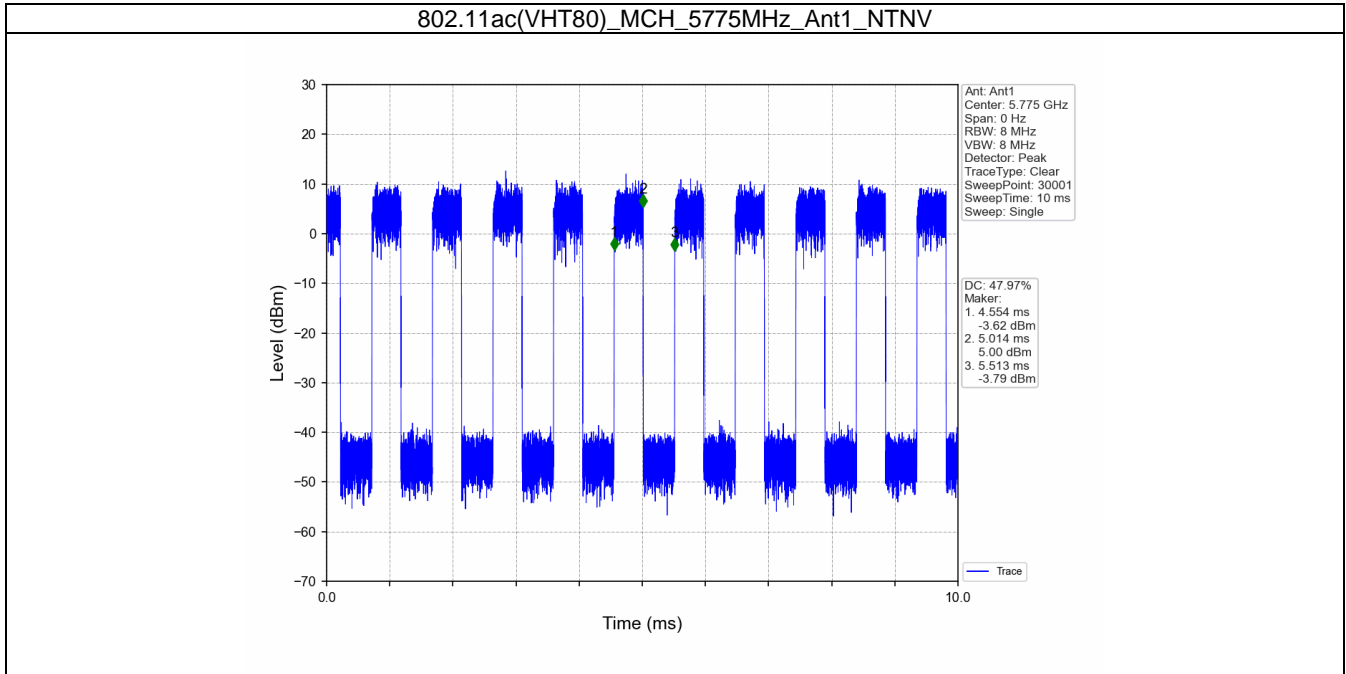


802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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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	18.310	Pass
			2	18.079	Pass
		5200	1	18.170	Pass
			2	18.062	Pass
		5240	1	18.209	Pass
			2	17.966	Pass
		5260	1	18.153	Pass
			2	17.967	Pass
		5300	1	18.398	Pass
			2	17.958	Pass
		5320	1	18.198	Pass
			2	17.878	Pass
		5500	1	17.876	Pass
			2	17.934	Pass
		5580	1	17.830	Pass
			2	17.890	Pass
		5700	1	17.928	Pass
			2	18.021	Pass
		5745	1	18.143	Pass
			2	18.186	Pass
5785	1	18.402	Pass		
	2	18.288	Pass		
5825	1	20.477	Pass		
	2	18.695	Pass		
802.11n (HT20)	MIMO	5180	1	18.629	Pass
			2	18.712	Pass
		5200	1	18.728	Pass
			2	18.718	Pass
		5240	1	18.677	Pass
			2	18.533	Pass
		5260	1	18.773	Pass
			2	18.778	Pass
		5300	1	18.774	Pass
			2	18.613	Pass
		5320	1	18.644	Pass
			2	18.672	Pass
		5500	1	18.685	Pass
			2	18.621	Pass
		5580	1	18.709	Pass
			2	18.686	Pass
		5700	1	18.611	Pass
			2	18.656	Pass
		5745	1	18.628	Pass
			2	18.639	Pass
5785	1	18.783	Pass		
	2	18.744	Pass		



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		5825	1	18.843	Pass
			2	18.891	Pass
802.11n (HT40)	MIMO	5190	1	36.954	Pass
			2	36.795	Pass
		5230	1	36.832	Pass
			2	36.824	Pass
		5270	1	36.938	Pass
			2	36.910	Pass
		5310	1	36.928	Pass
			2	36.918	Pass
		5510	1	36.856	Pass
			2	36.822	Pass
		5550	1	36.893	Pass
			2	36.838	Pass
		5670	1	36.759	Pass
			2	36.823	Pass
5755	1	36.924	Pass		
	2	36.889	Pass		
5795	1	37.061	Pass		
	2	36.947	Pass		
802.11ac (VHT20)	MIMO	5180	1	18.780	Pass
			2	18.799	Pass
		5200	1	18.676	Pass
			2	18.634	Pass
		5240	1	18.711	Pass
			2	18.739	Pass
		5260	1	18.662	Pass
			2	18.643	Pass
		5300	1	18.594	Pass
			2	18.558	Pass
		5320	1	18.749	Pass
			2	18.728	Pass
		5500	1	18.680	Pass
			2	18.678	Pass
		5580	1	18.767	Pass
			2	18.628	Pass
		5700	1	18.746	Pass
			2	18.759	Pass
5745	1	18.677	Pass		
	2	18.685	Pass		
5785	1	18.782	Pass		
	2	18.776	Pass		
5825	1	18.629	Pass		
	2	18.748	Pass		
802.11ac (VHT40)	MIMO	5190	1	36.828	Pass
			2	36.896	Pass
		5230	1	36.917	Pass
			2	36.772	Pass
		5270	1	36.923	Pass
			2	36.840	Pass
		5310	1	36.796	Pass
			2	36.918	Pass
5510	1	36.754	Pass		
	2	36.768	Pass		
5550	1	36.918	Pass		



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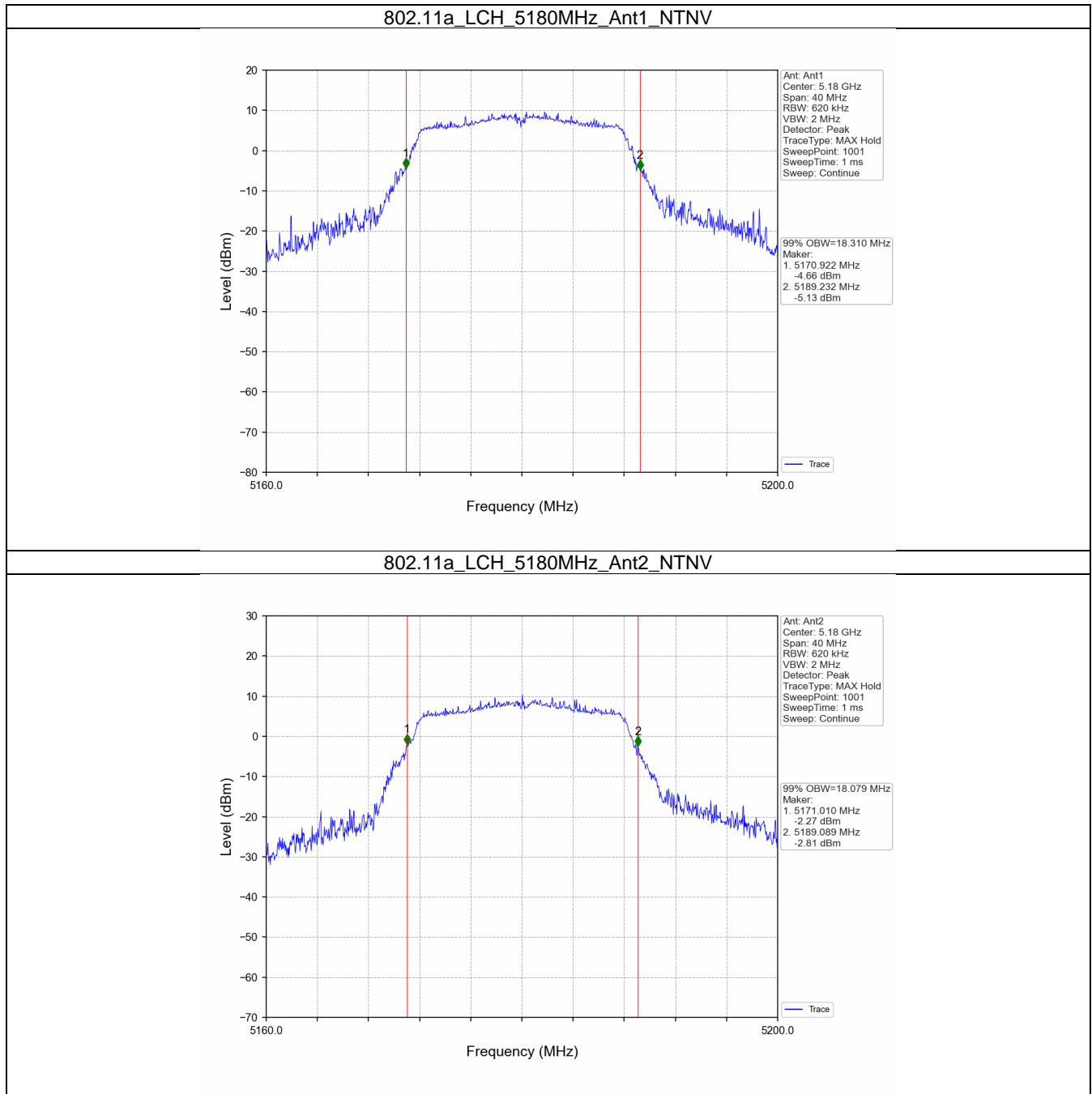
			2	36.913	Pass
		5670	1	36.785	Pass
			2	36.854	Pass
		5755	1	36.873	Pass
			2	36.879	Pass
		5795	1	36.871	Pass
			2	37.197	Pass
802.11ac (VHT80)	MIMO	5210	1	76.692	Pass
			2	76.771	Pass
		5290	1	76.669	Pass
			2	76.818	Pass
		5530	1	76.588	Pass
			2	76.601	Pass
		5610	1	76.632	Pass
			2	76.627	Pass
		5775	1	76.779	Pass
			2	76.784	Pass



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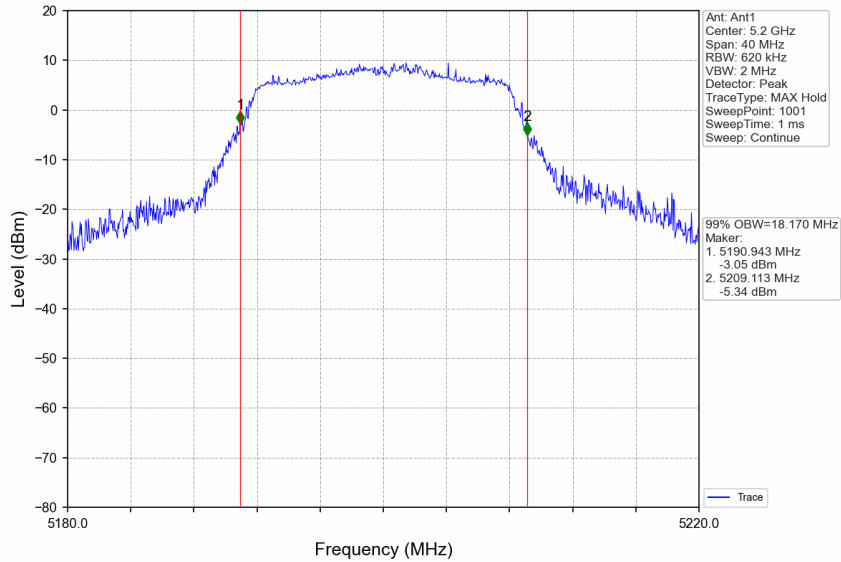
2.1.2 Test Graph



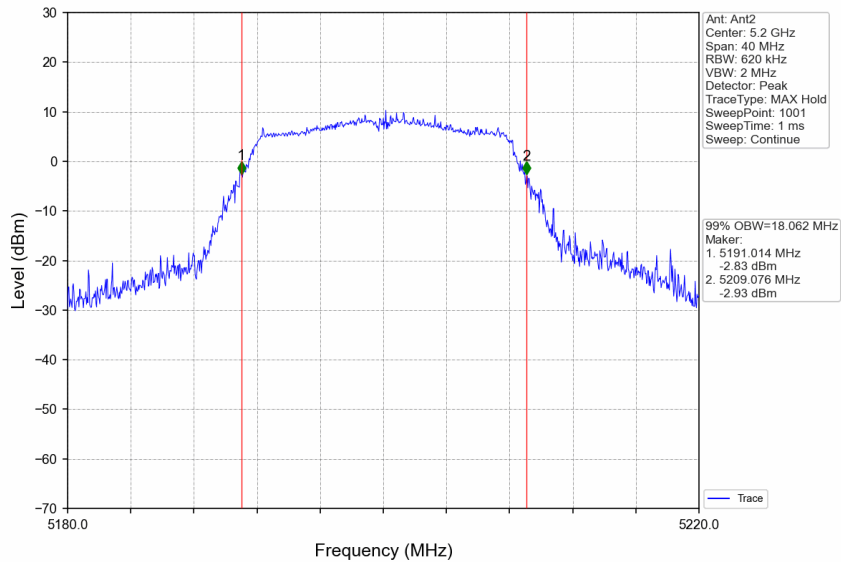
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



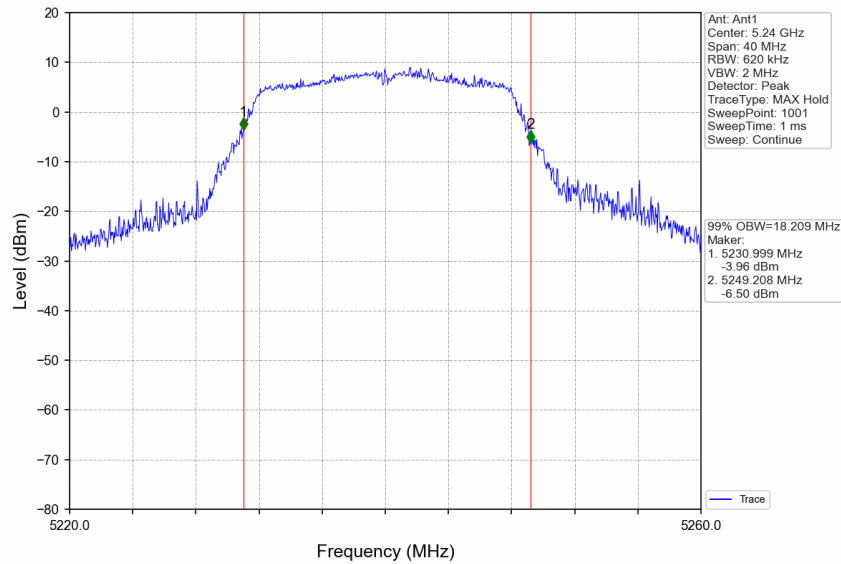
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



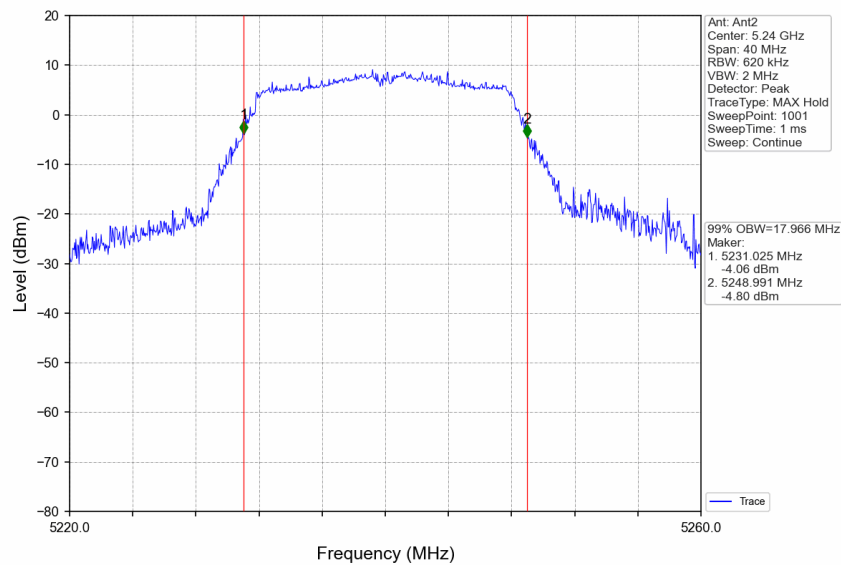
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



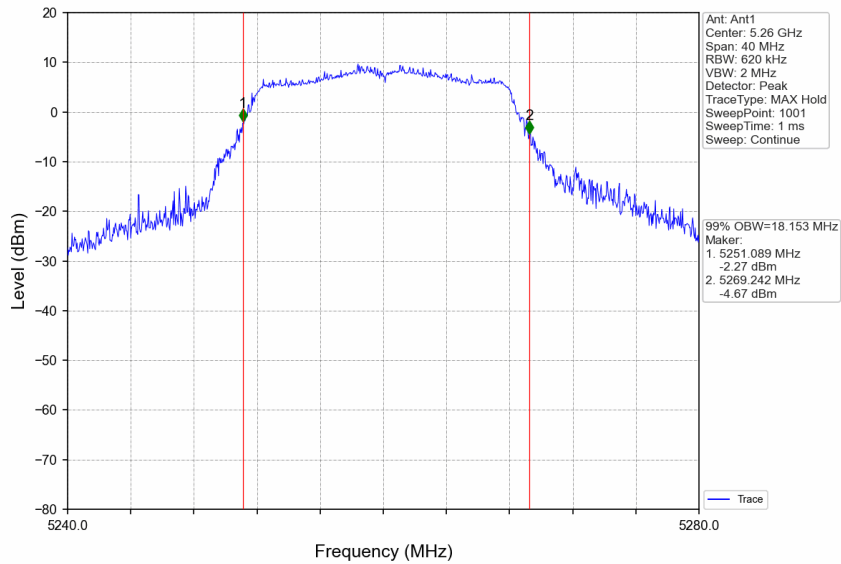
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



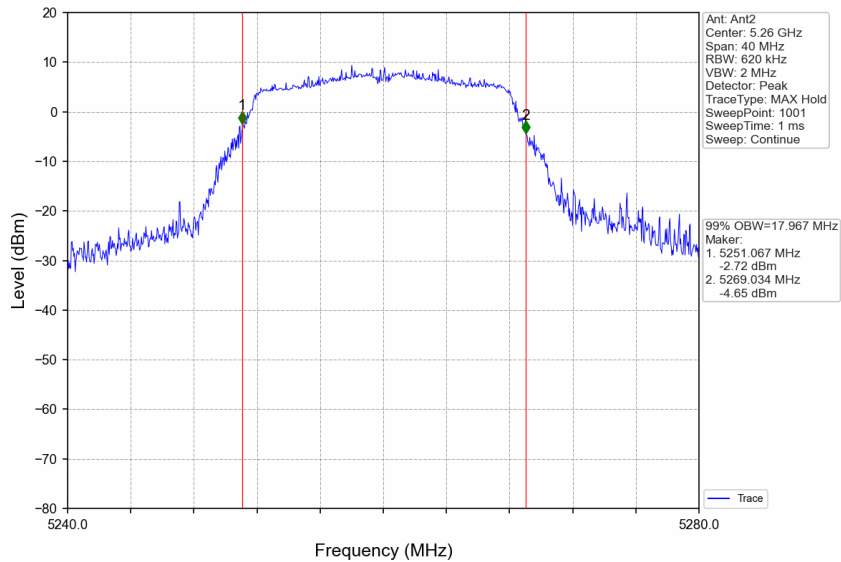
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802.11a\_LCH\_5260MHz\_Ant1\_NTNV

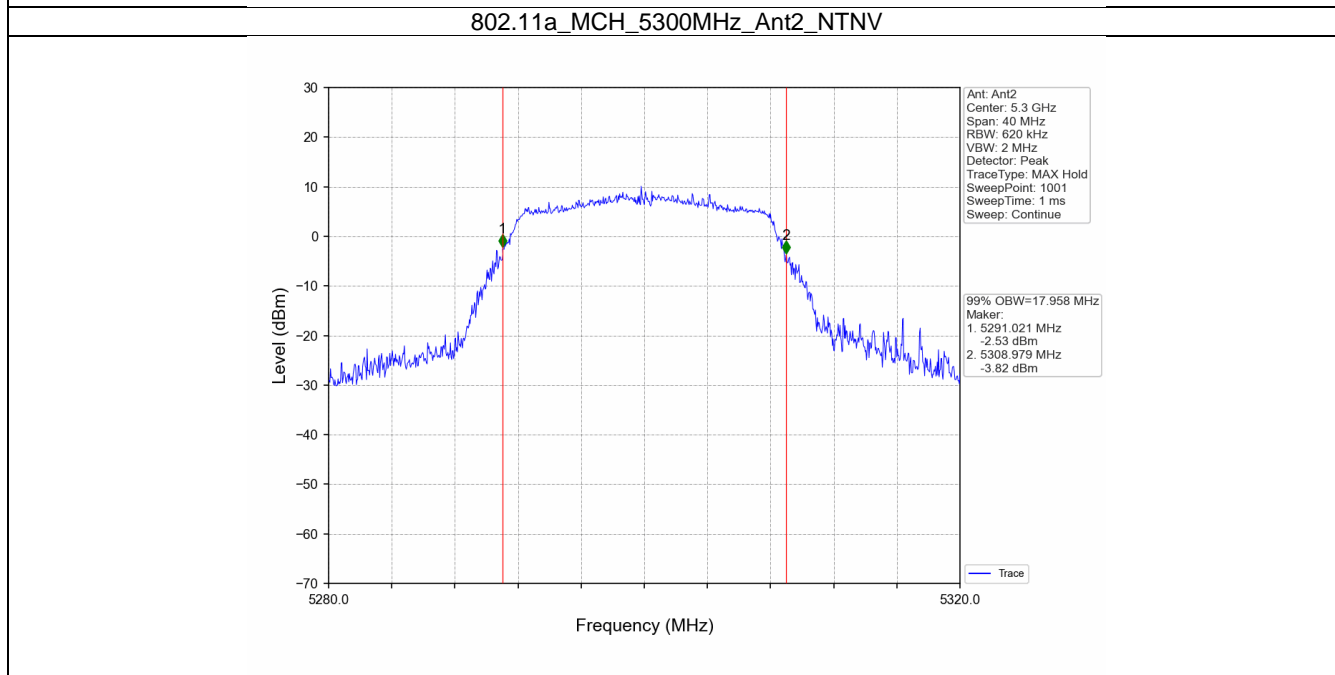
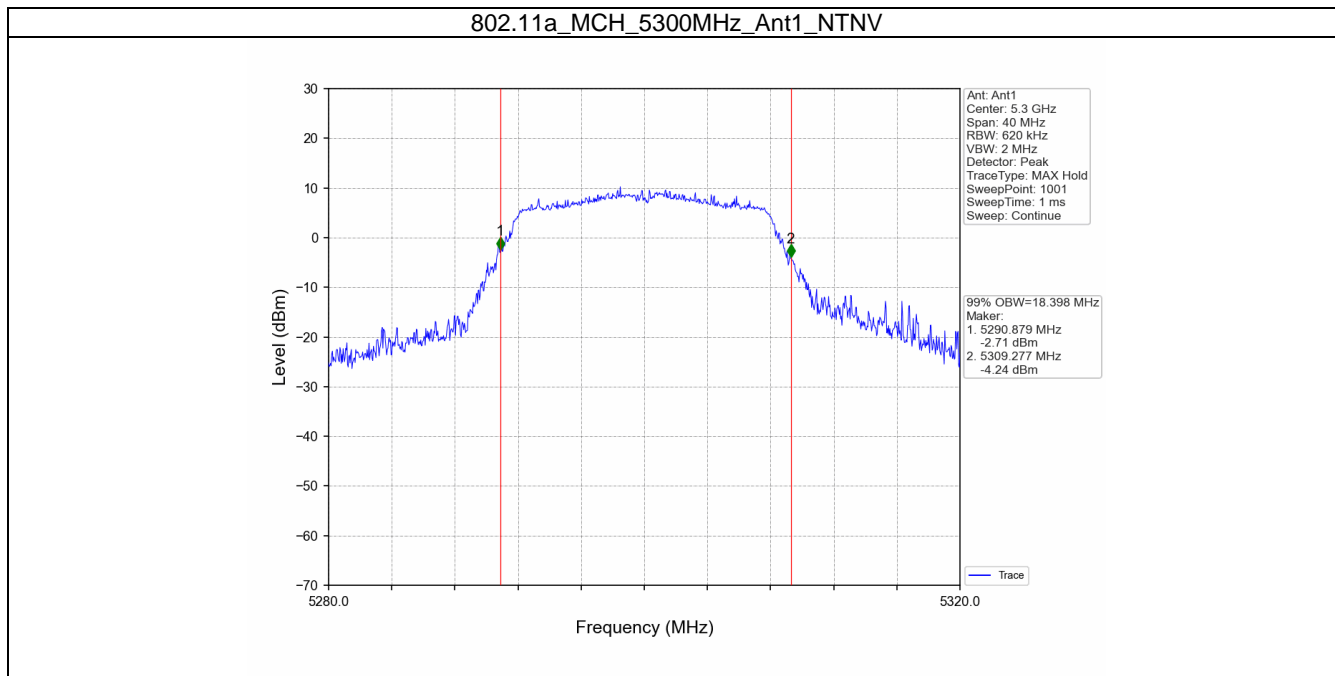


802.11a\_LCH\_5260MHz\_Ant2\_NTNV



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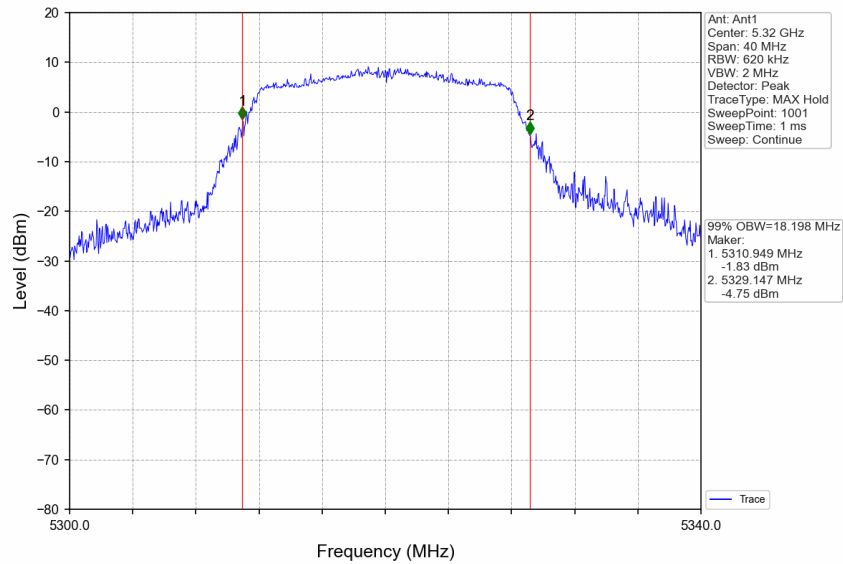


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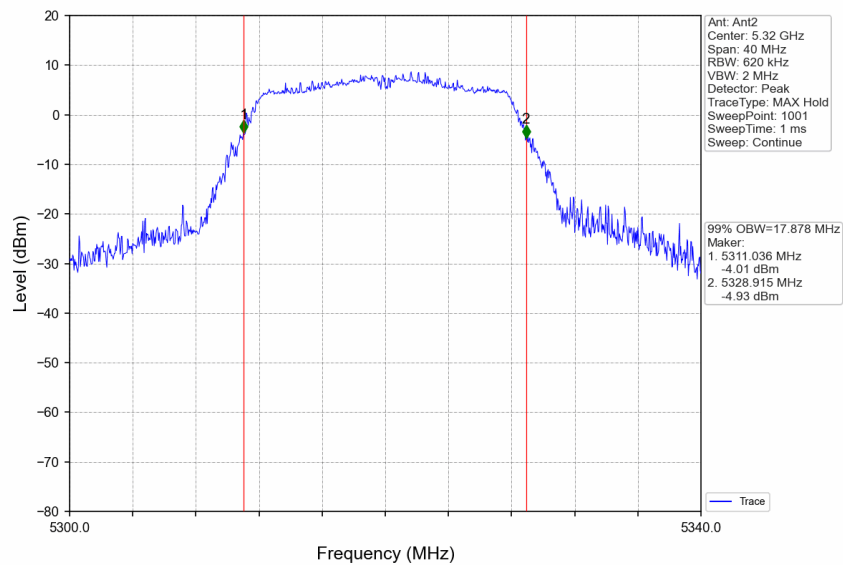
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802.11a\_HCH\_5320MHz\_Ant1\_NTNV



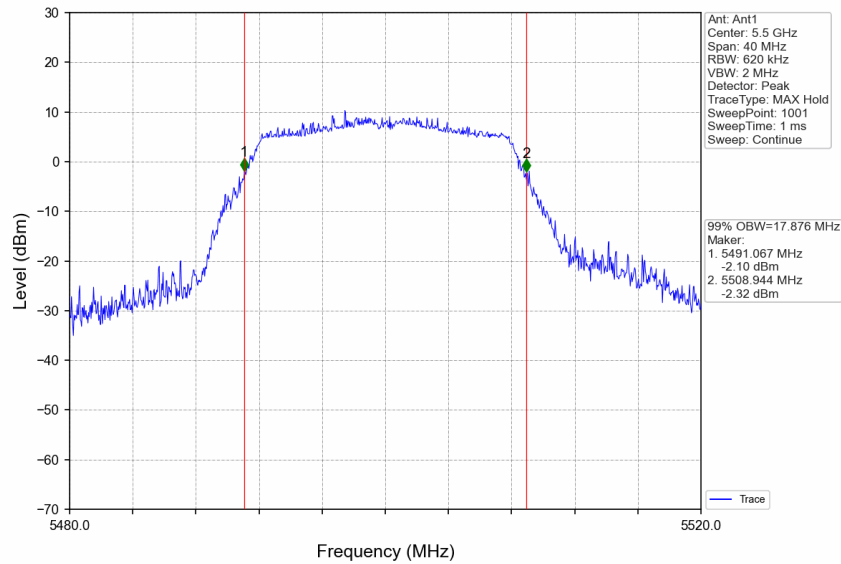
802.11a\_HCH\_5320MHz\_Ant2\_NTNV



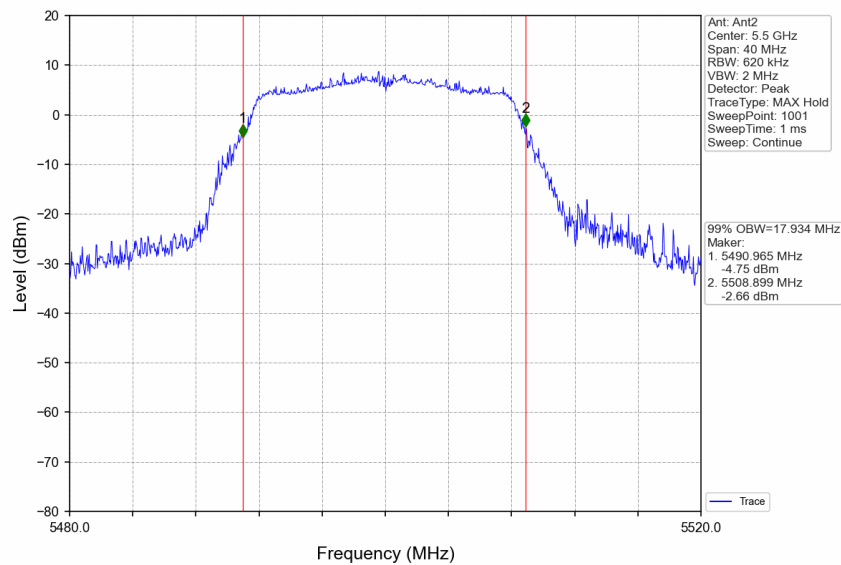
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



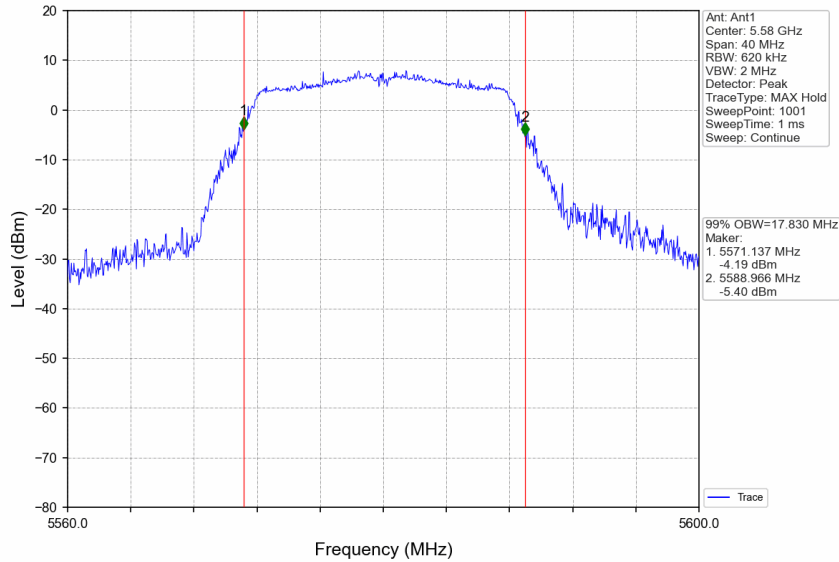
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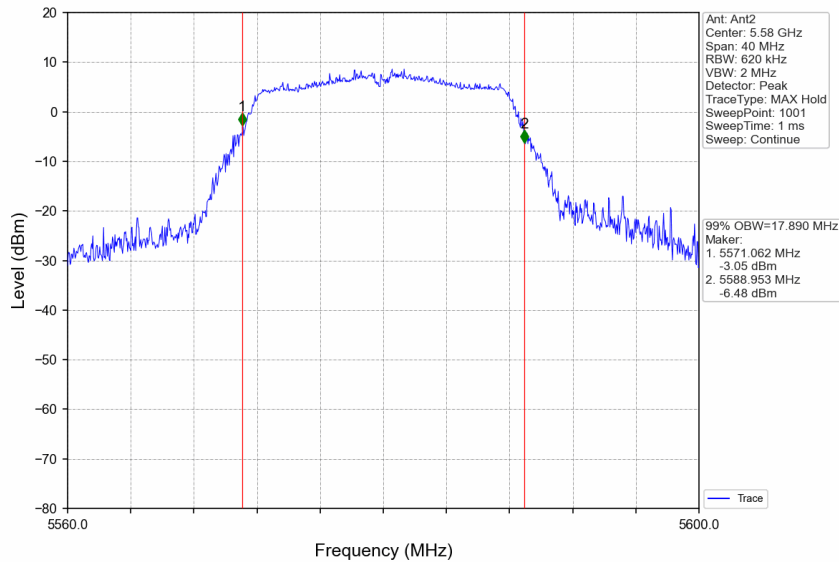
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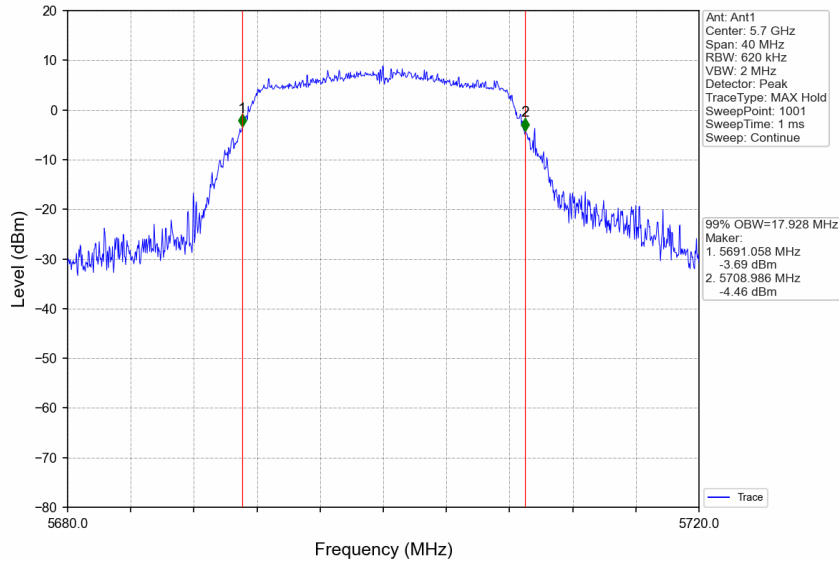
802.11a\_MCH\_5580MHz\_Ant2\_NTNV



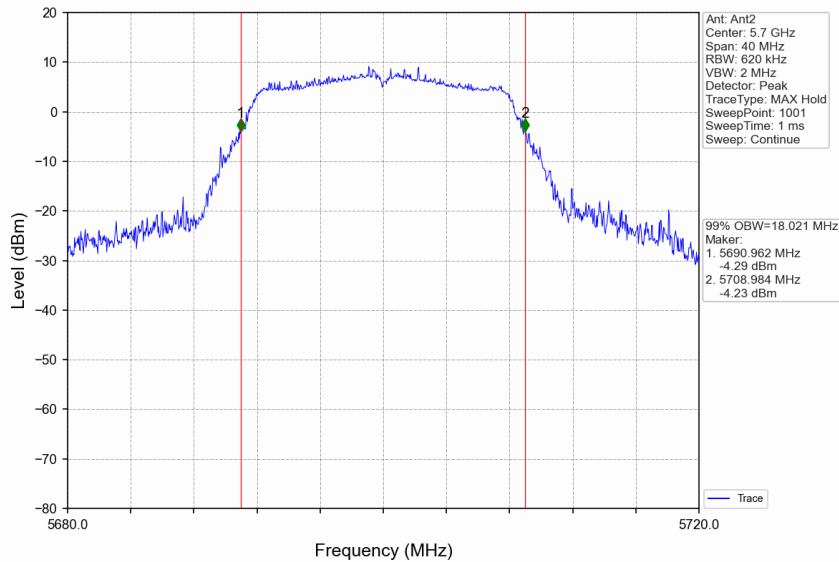
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



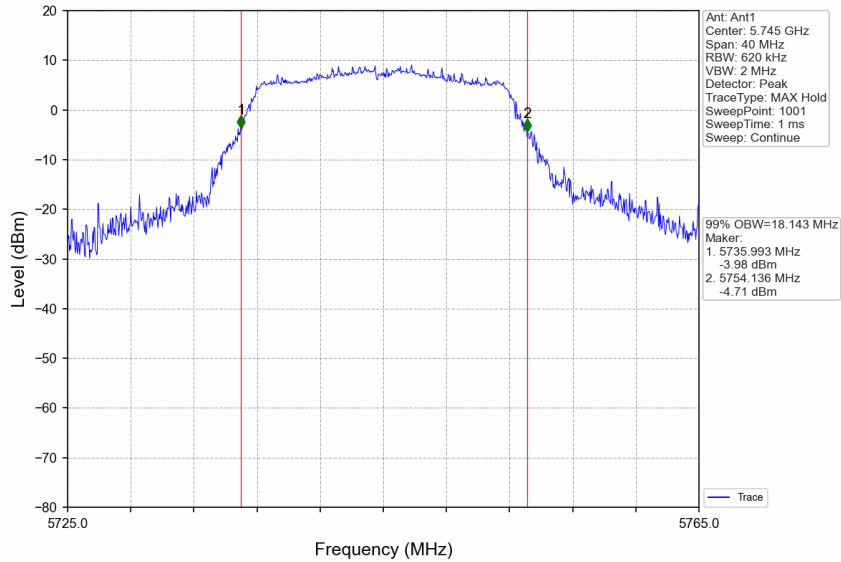
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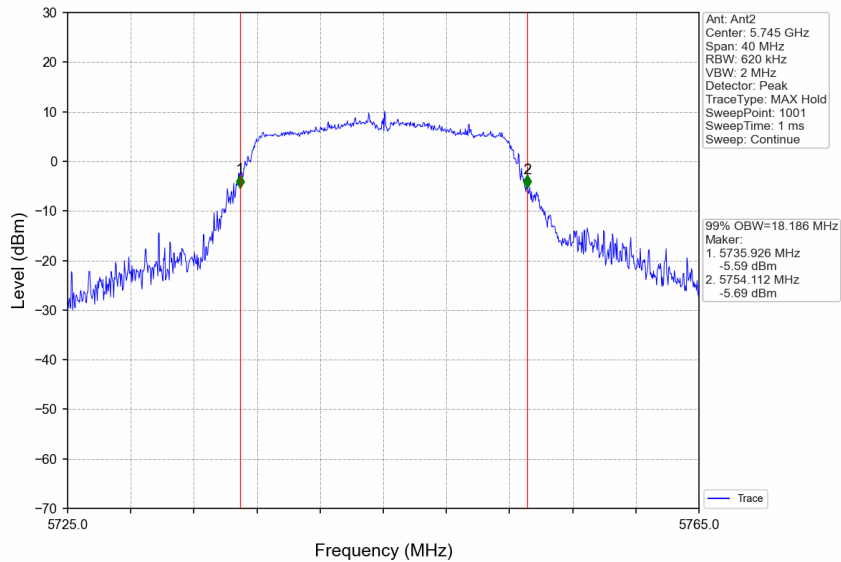
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



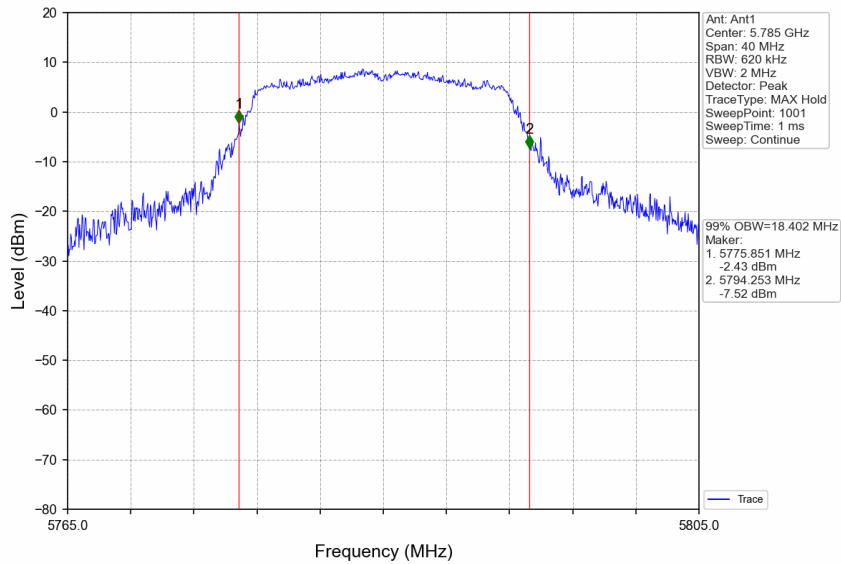
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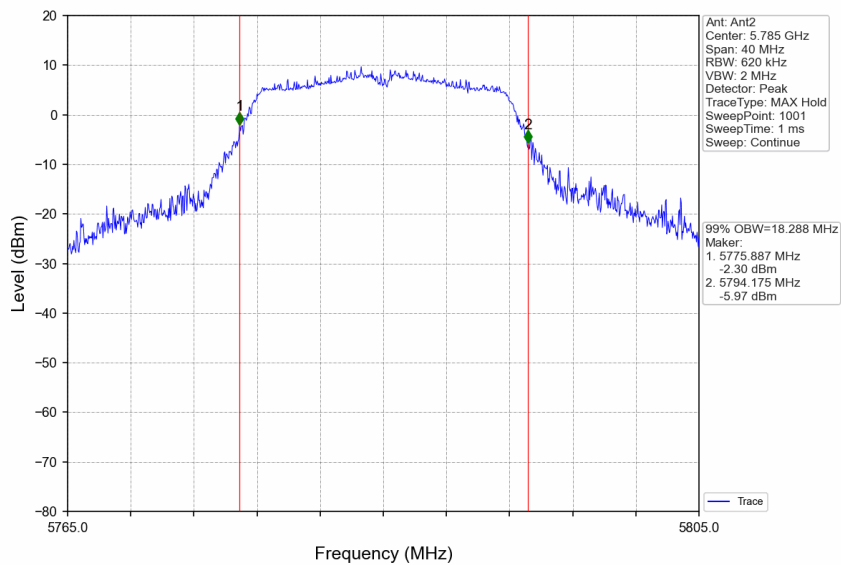
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802.11a\_MCH\_5785MHz\_Ant1\_NTNV



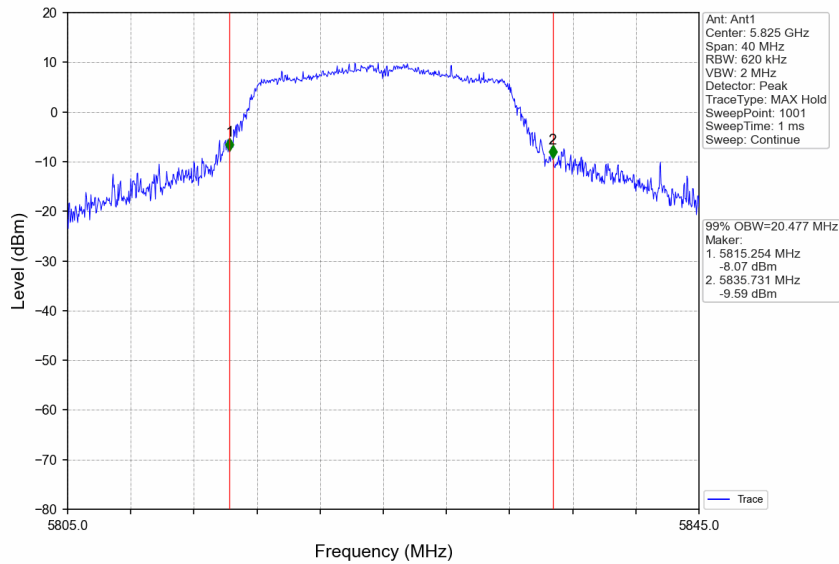
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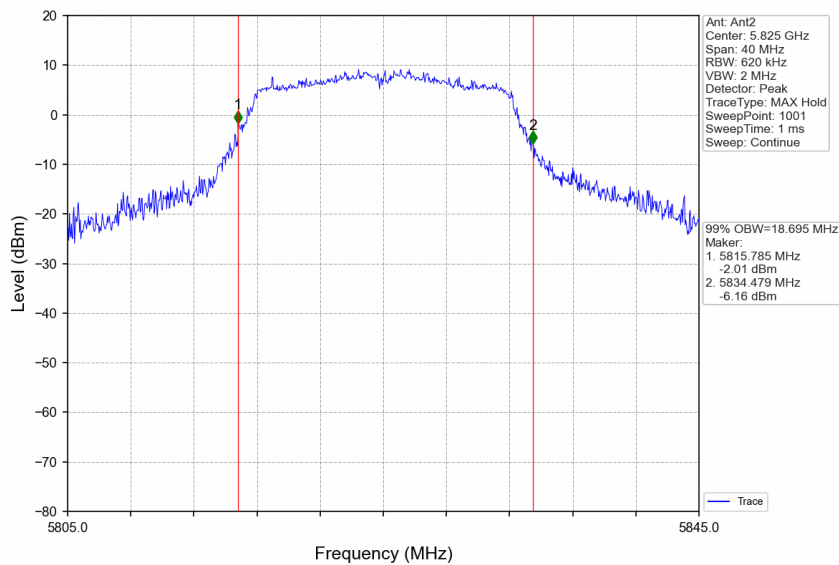
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



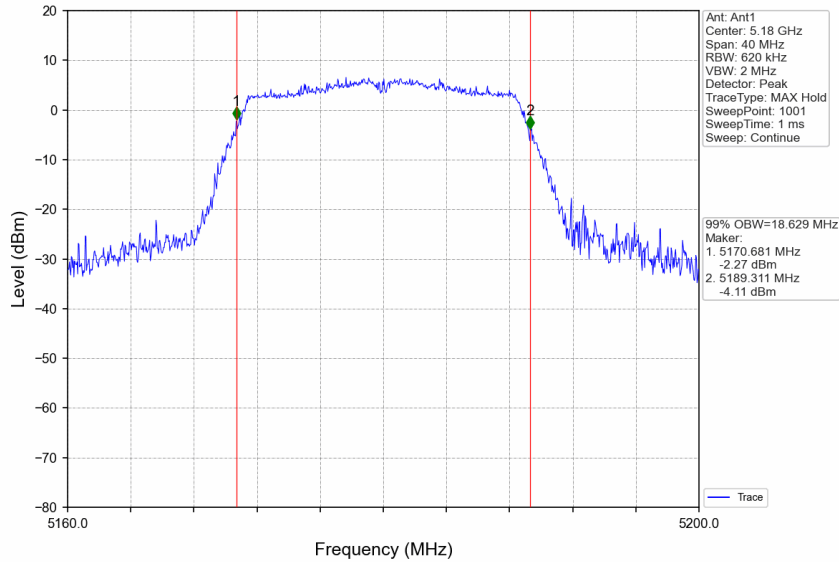
802.11a\_HCH\_5825MHz\_Ant2\_NTNV



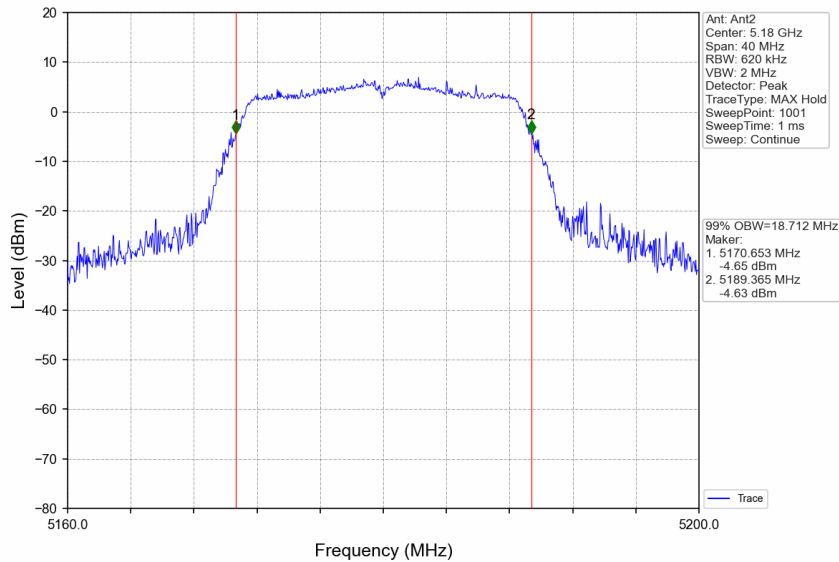
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



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

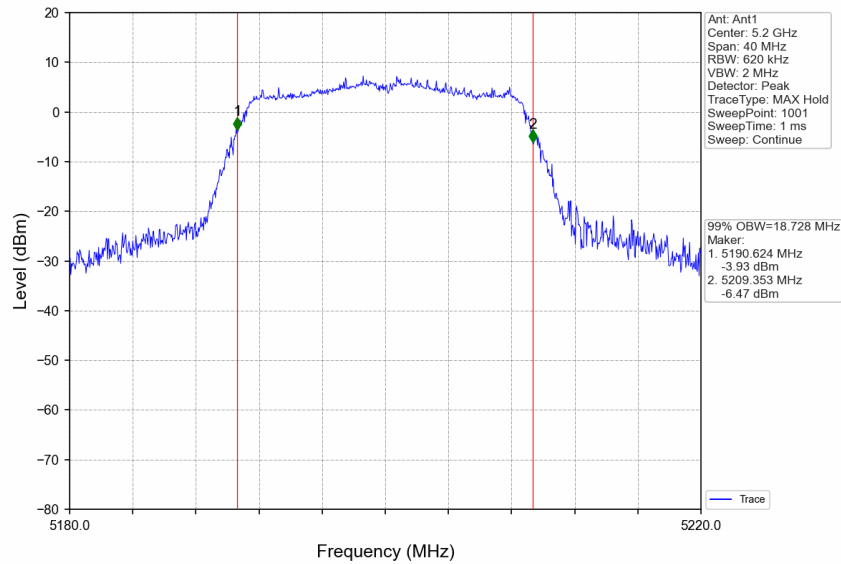


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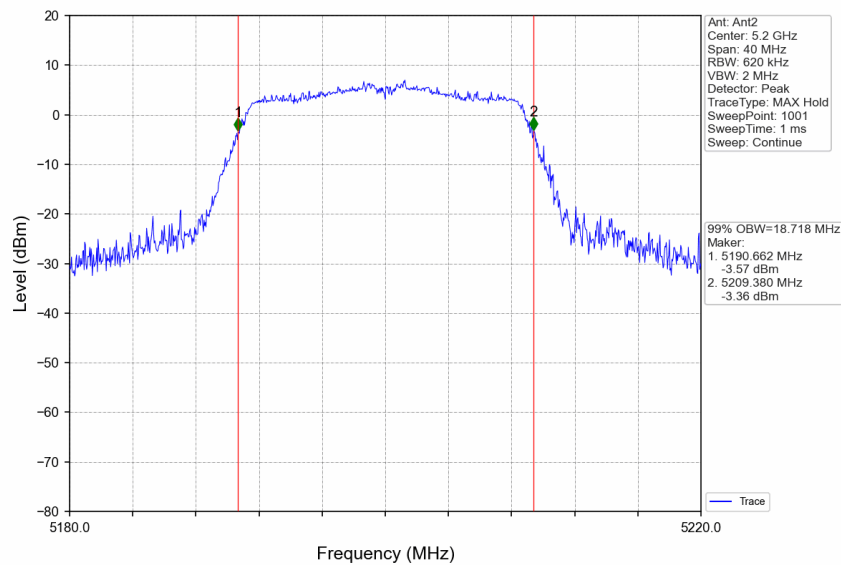
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



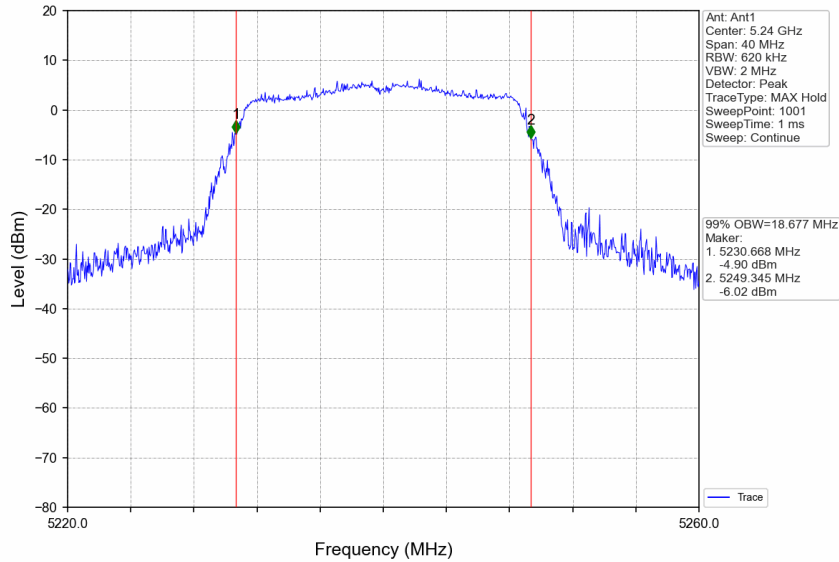
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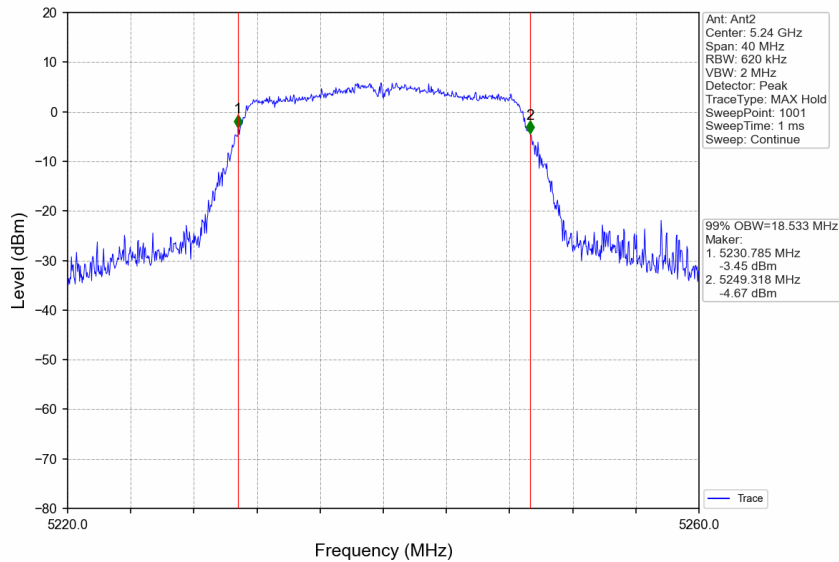
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



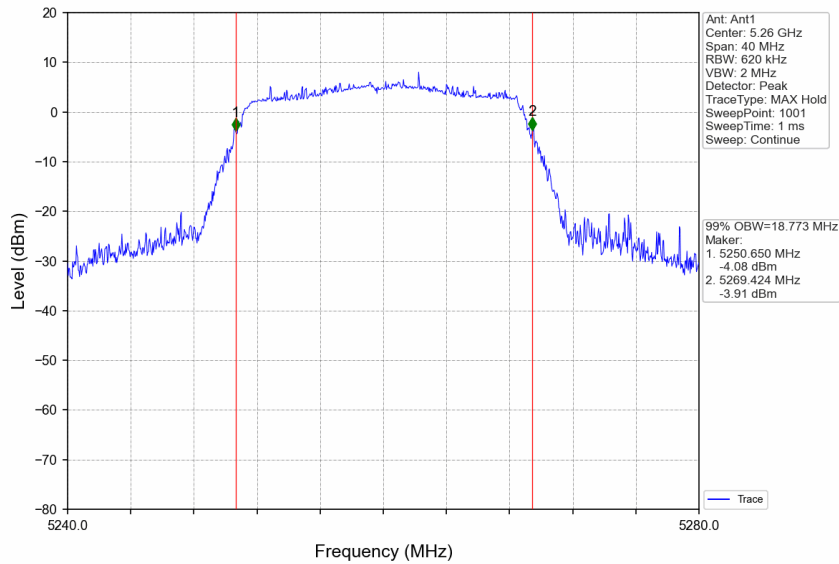
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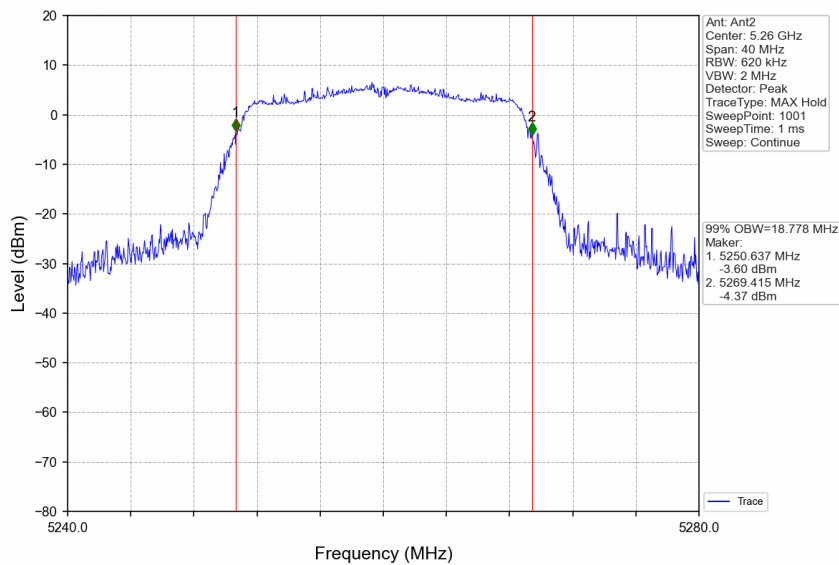
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802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



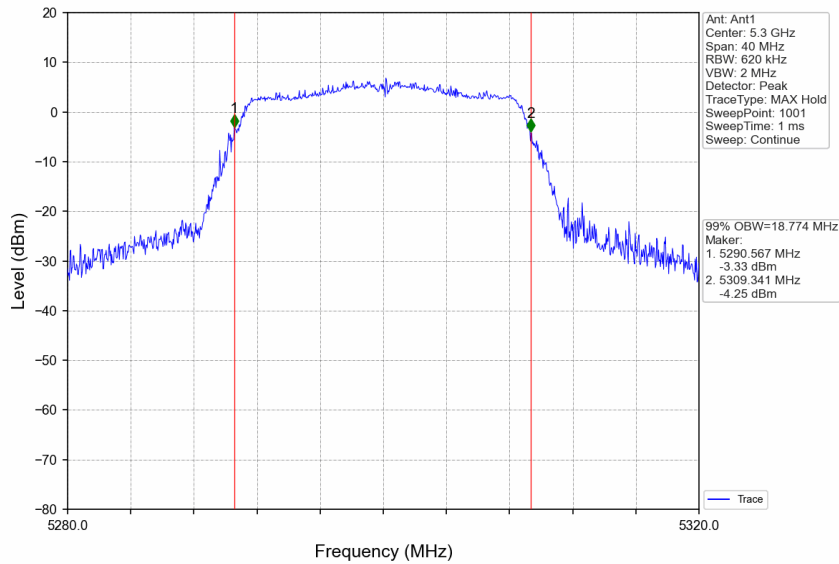
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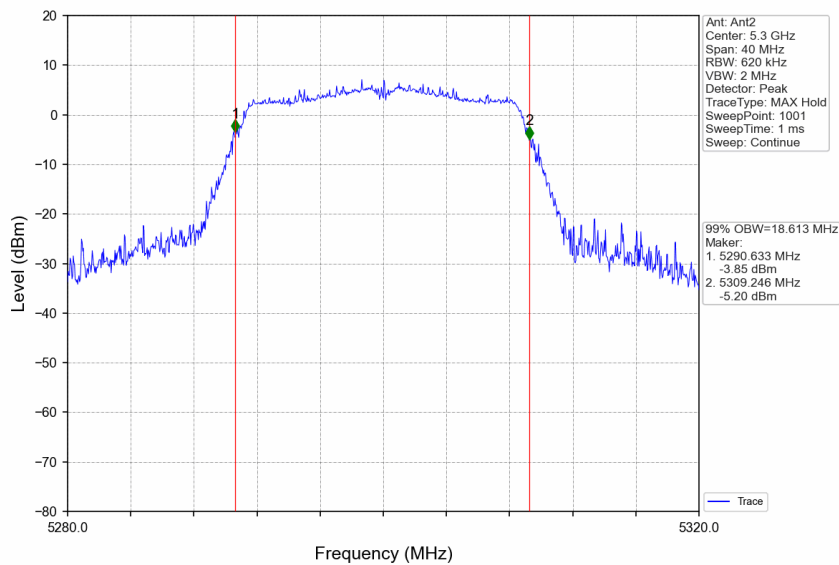
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802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



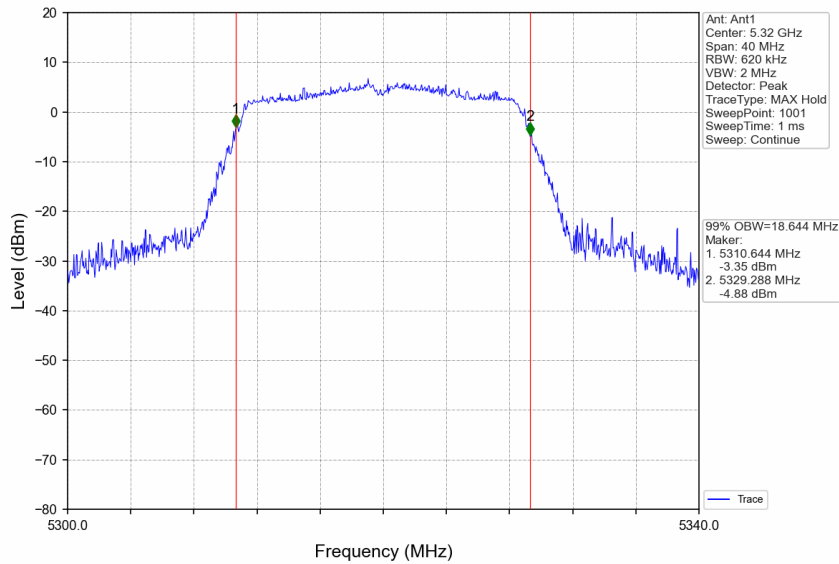
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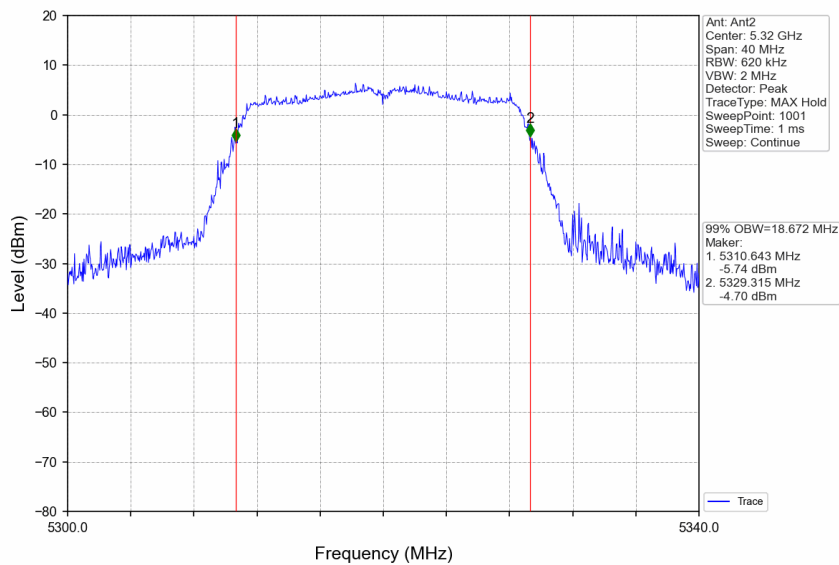
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802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV



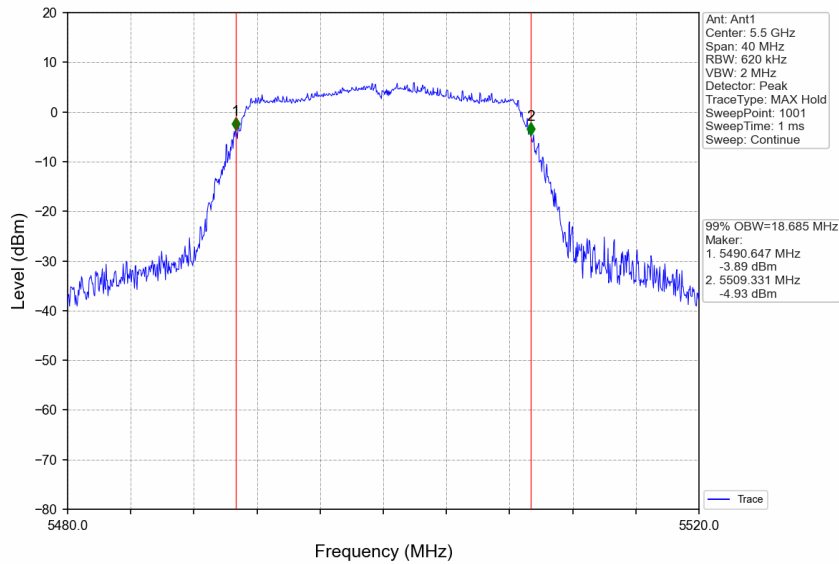
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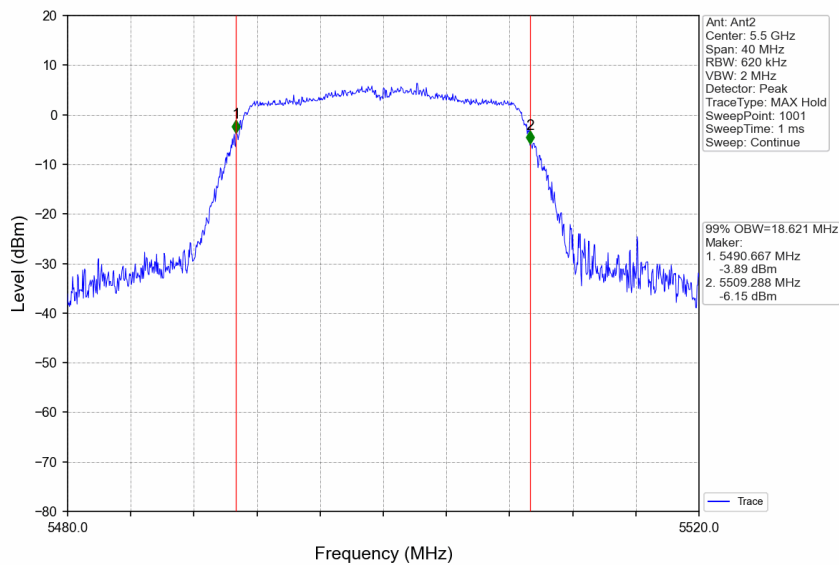
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802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV



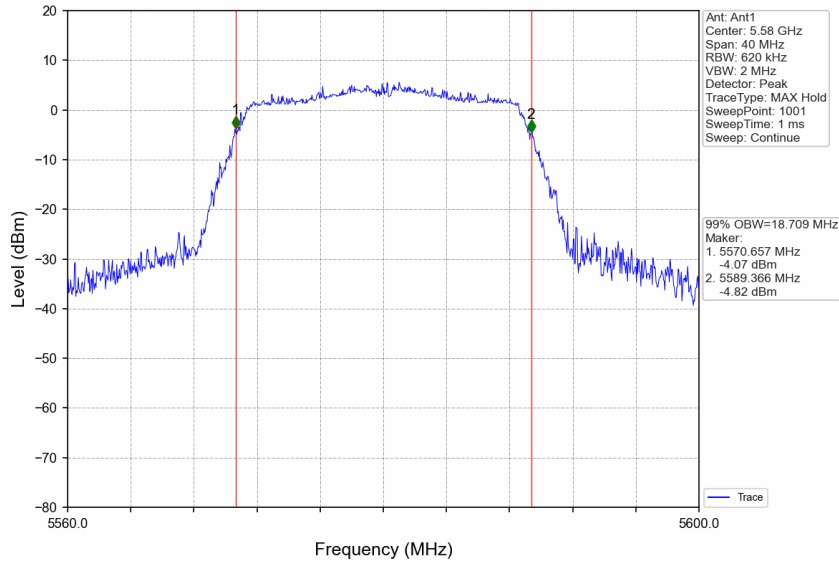
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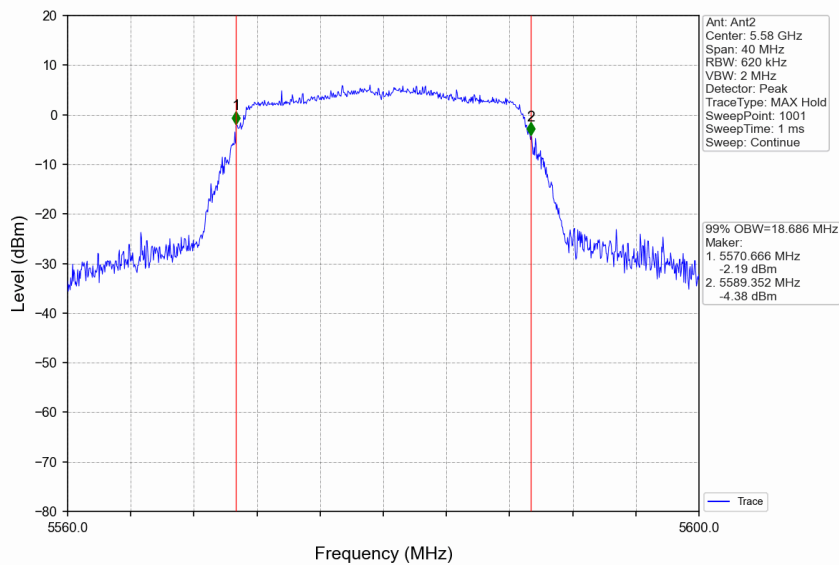
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802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5580MHz\_Ant2\_NTNV



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