

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.065	2.294	90.02	0.46	5.21
		5200	2.064	2.294	89.97	0.46	5.21
		5240	2.065	2.295	89.98	0.46	5.25
		5260	2.065	2.286	90.33	0.44	4.87
		5300	2.065	2.295	89.98	0.46	5.63
		5320	2.066	2.278	90.69	0.42	4.51
		5500	2.065	2.295	89.98	0.46	5.64
		5580	2.065	2.294	90.02	0.46	5.64
		5700	2.065	2.295	89.98	0.46	4.83
		5745	2.065	2.295	89.98	0.46	5.25
		5785	2.064	2.295	89.93	0.46	5.67
		5825	2.065	2.276	90.73	0.42	4.48
802.11n (HT20)	MIMO	5180	1.921	2.151	89.31	0.49	5.15
		5200	1.921	2.141	89.72	0.47	4.76
		5240	1.922	2.152	89.31	0.49	5.98
		5260	1.922	2.151	89.35	0.49	5.98
		5300	1.920	2.142	89.64	0.48	5.61
		5320	1.920	2.141	89.68	0.47	5.62
		5500	1.921	2.151	89.31	0.49	5.57
		5580	1.921	2.151	89.31	0.49	5.98
		5700	1.921	2.123	90.49	0.43	4.43
		5745	1.921	2.142	89.68	0.47	5.58
		5785	1.921	2.097	91.61	0.38	3.25
		5825	1.921	2.133	90.06	0.45	5.21
802.11n (HT40)	MIMO	5190	0.944	1.174	80.41	0.95	8.92
		5230	0.945	1.166	81.05	0.91	8.30
		5270	0.944	1.175	80.34	0.95	3.22
		5310	0.945	1.157	81.68	0.88	9.16
		5510	0.944	1.175	80.34	0.95	10.47
		5550	0.946	1.175	80.51	0.94	6.66
		5670	0.946	1.175	80.51	0.94	8.93
		5755	0.945	1.157	81.68	0.88	8.43
		5795	0.945	1.175	80.43	0.95	8.90

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Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT20)	MIMO	5180	1.933	2.187	88.39	0.54	5.82
		5200	1.933	2.178	88.75	0.52	5.46
		5240	1.933	2.178	88.75	0.52	3.84
		5260	1.933	2.188	88.35	0.54	5.84
		5300	1.933	2.169	89.12	0.50	5.07
		5320	1.933	2.178	88.75	0.52	4.23
		5500	1.932	2.159	89.49	0.48	4.27
		5580	1.933	2.187	88.39	0.54	5.41
		5700	1.933	2.178	88.75	0.52	5.42
		5745	1.933	2.170	89.08	0.50	3.87
		5785	1.933	2.187	88.39	0.54	5.82
		5825	1.933	2.178	88.75	0.52	4.62
802.11ac (VHT40)	MIMO	5190	0.953	1.198	79.55	0.99	7.19
		5230	0.953	1.207	78.96	1.03	9.21
		5270	0.961	1.180	81.44	0.89	7.44
		5310	0.953	1.198	79.55	0.99	8.64
		5510	0.953	1.207	78.96	1.03	7.76
		5550	0.954	1.198	79.63	0.99	9.34
		5670	0.953	1.207	78.96	1.03	9.94
		5755	0.954	1.207	79.04	1.02	9.19
		5795	0.953	1.198	79.55	0.99	8.63
802.11ac (VHT80)	MIMO	5210	0.462	0.706	65.44	1.84	14.21
		5290	0.462	0.715	64.62	1.90	13.82
		5530	0.461	0.715	64.48	1.91	13.82
		5610	0.462	0.688	67.15	1.73	8.96
		5775	0.462	0.697	66.28	1.79	9.83

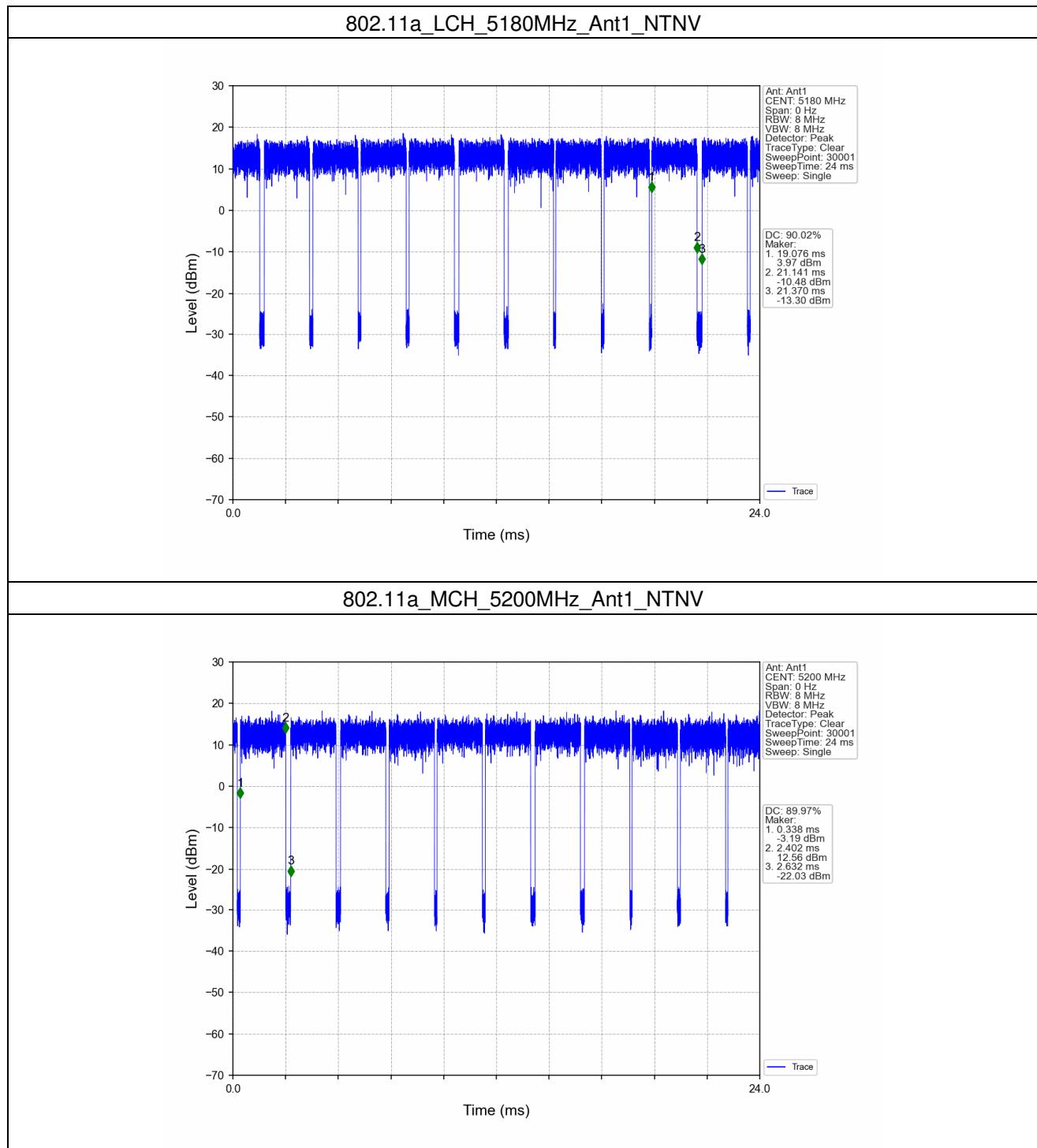
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1.2 Test Graph

1.2.1 Ant1

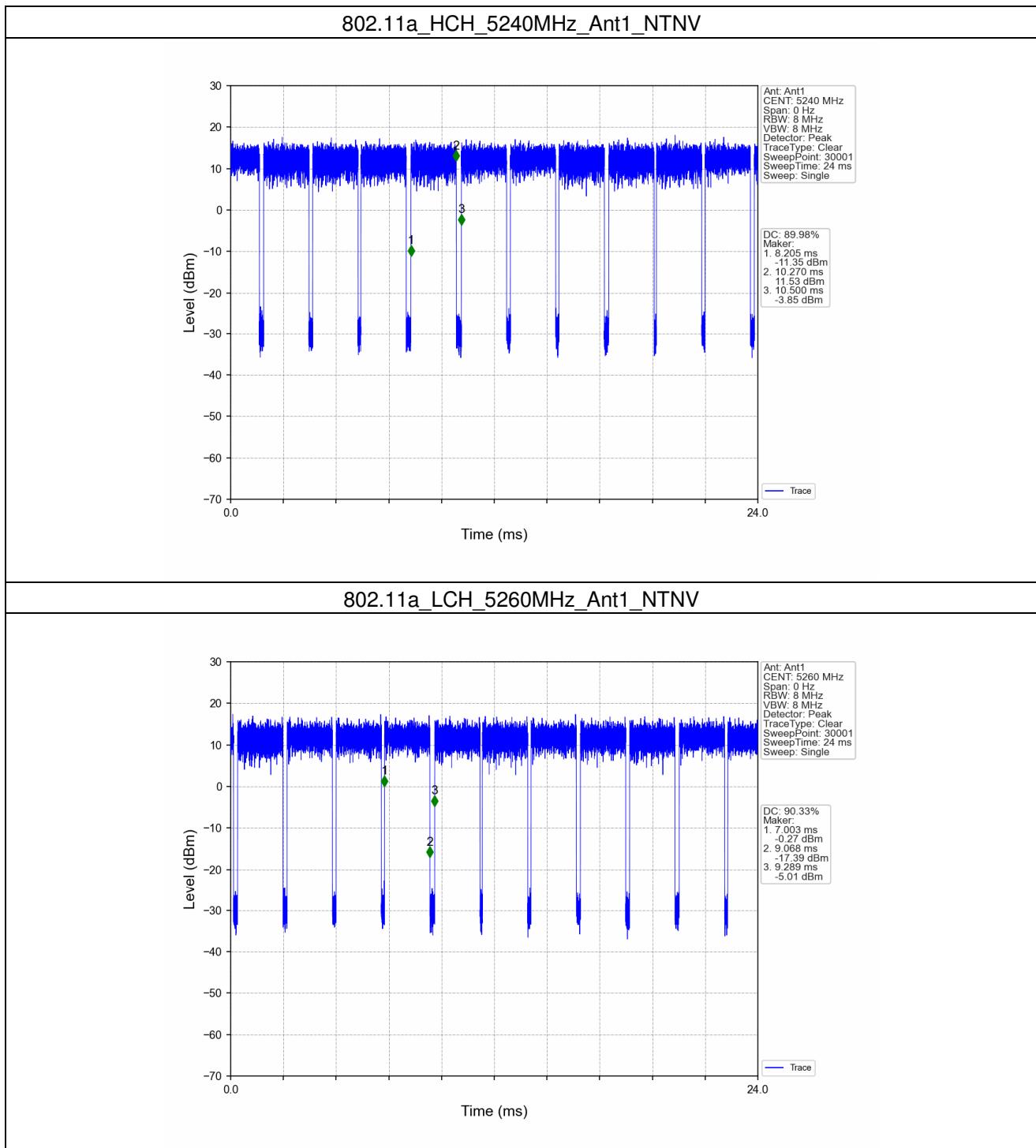


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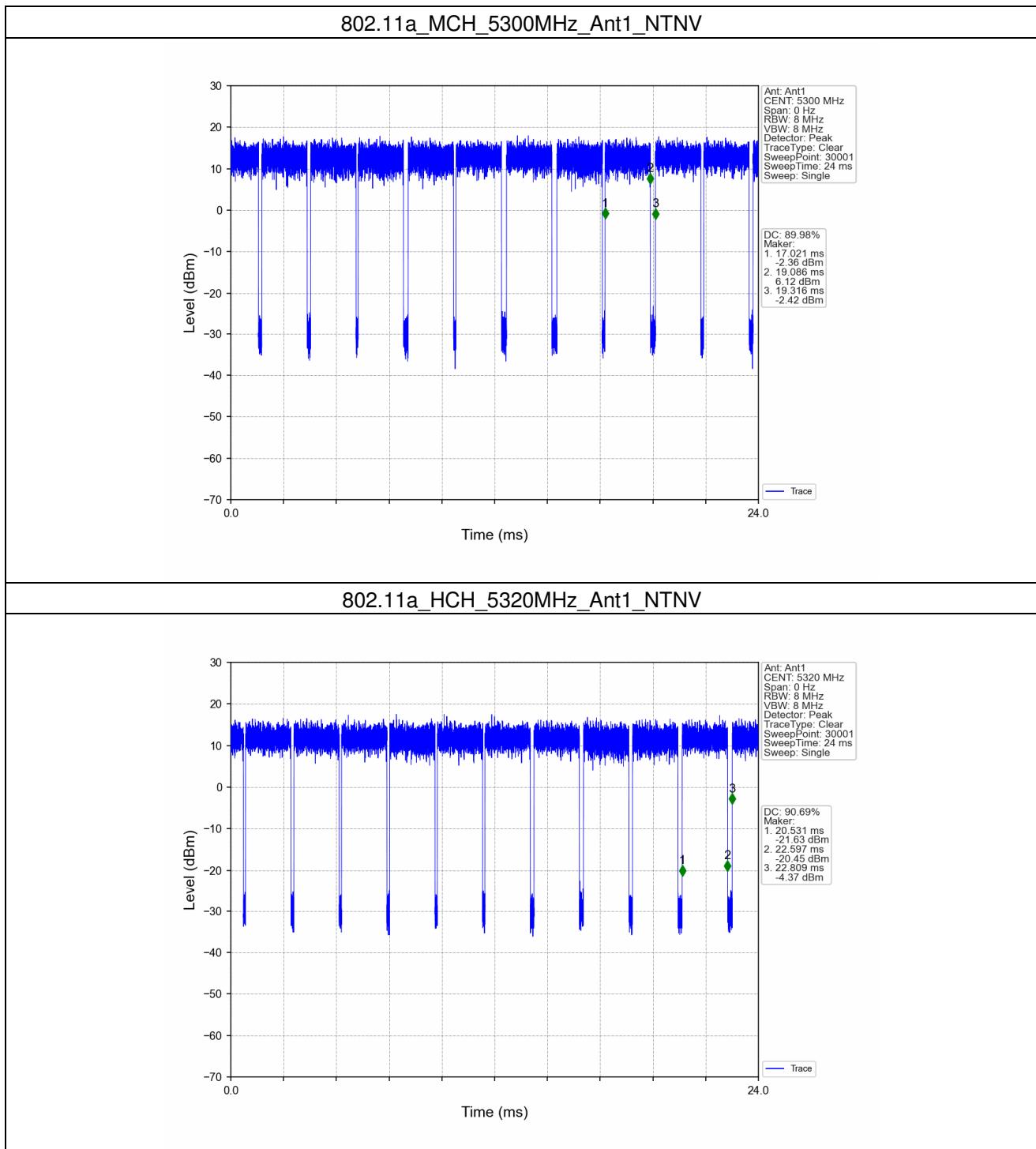


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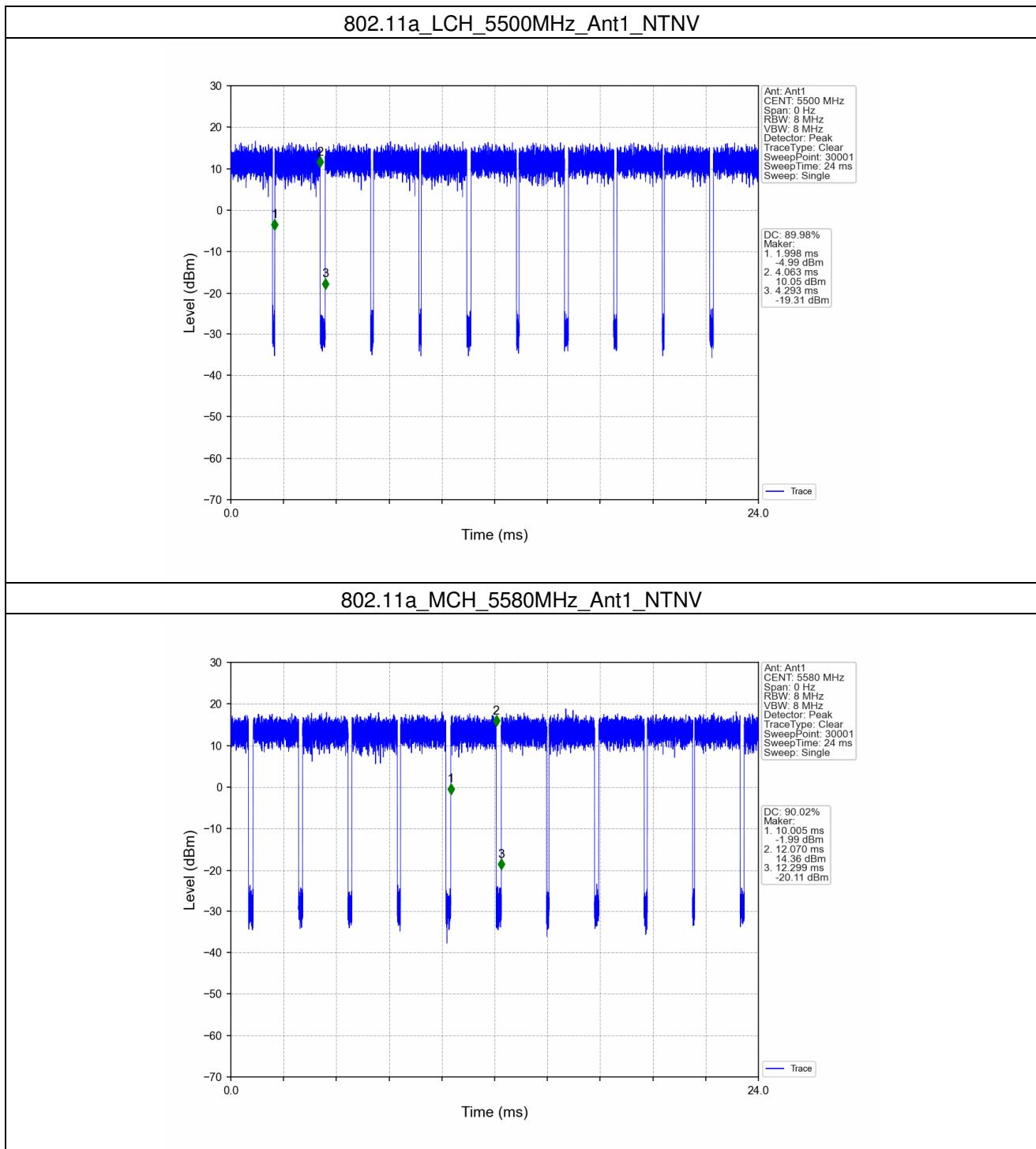


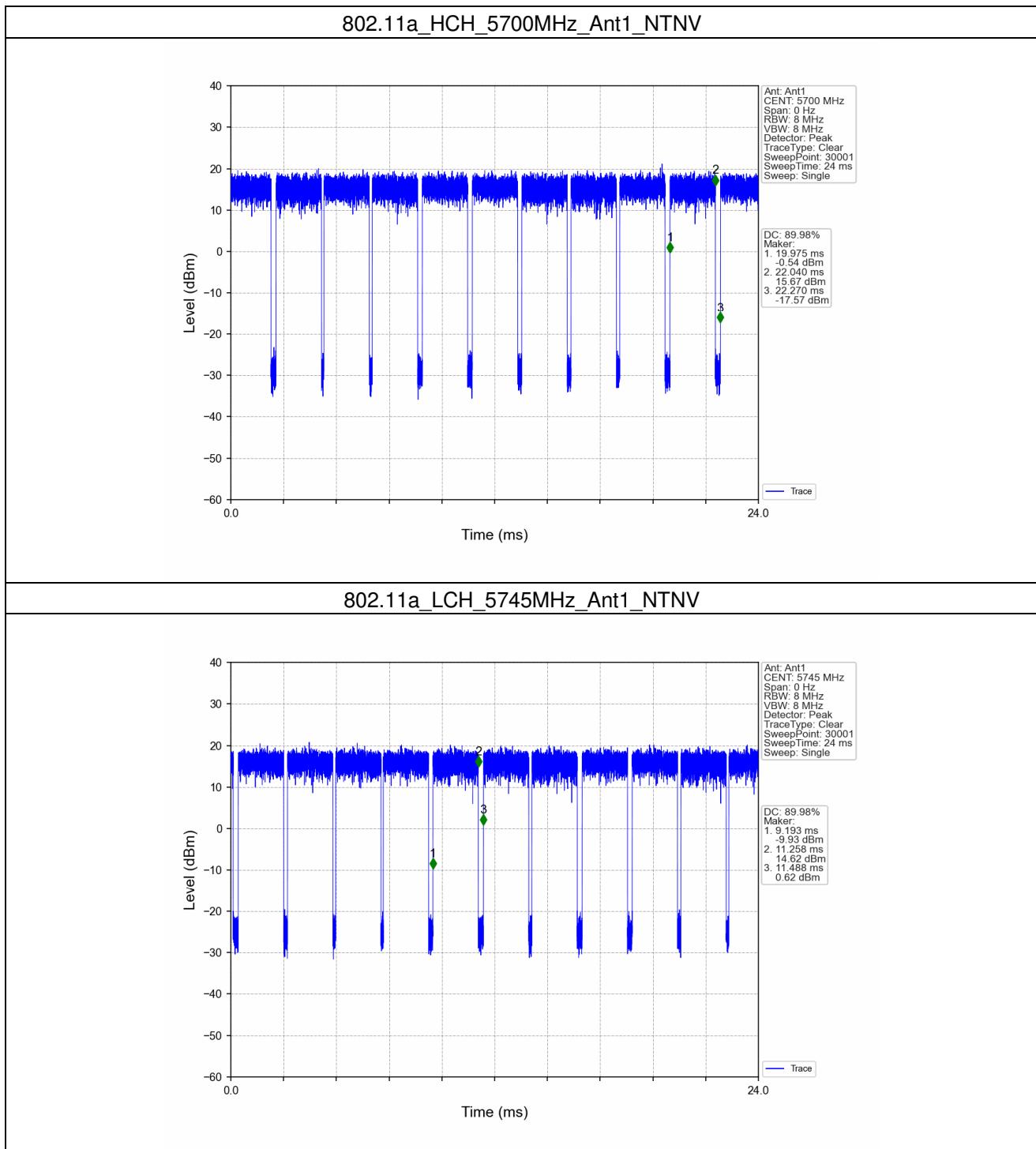
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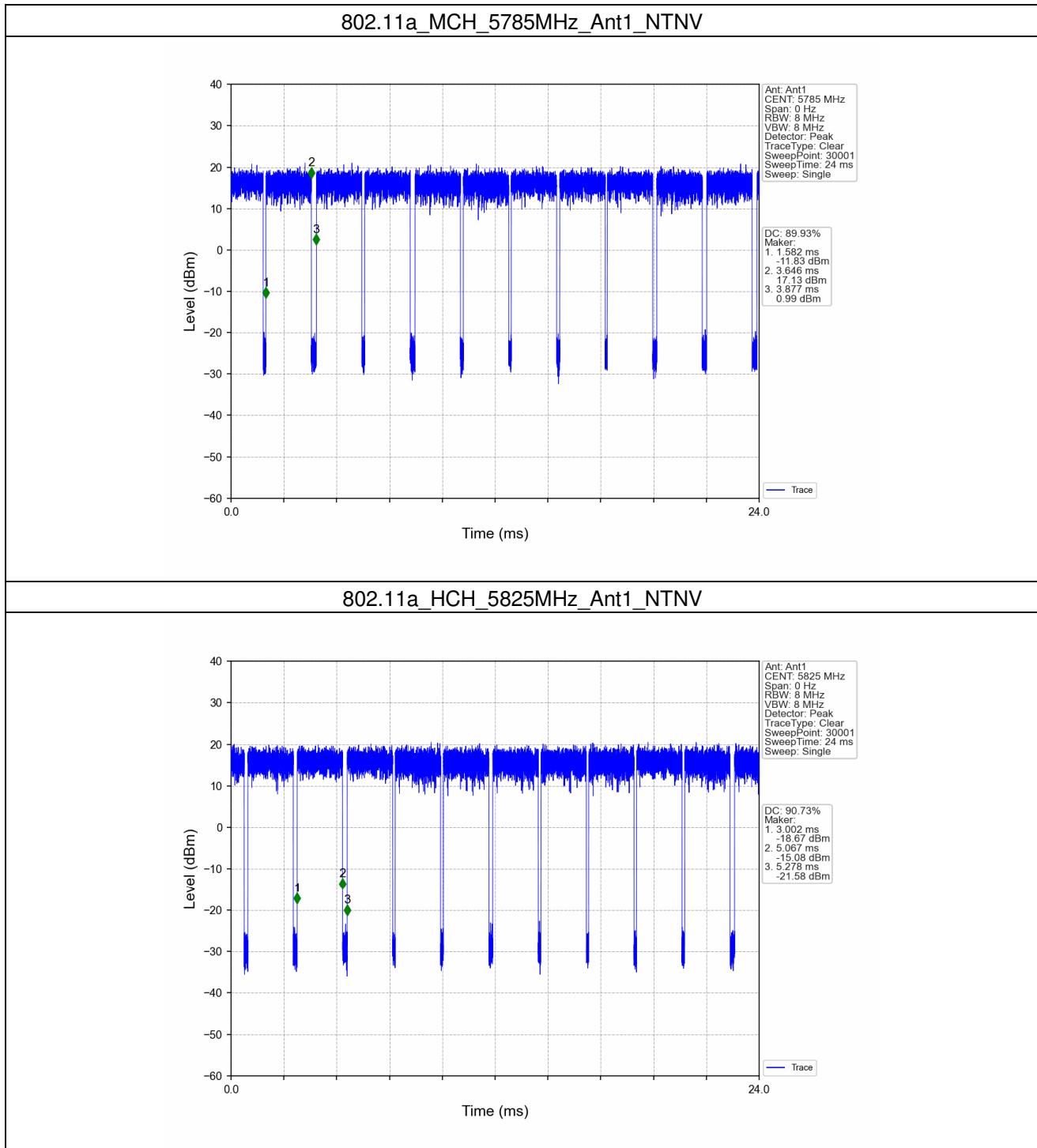


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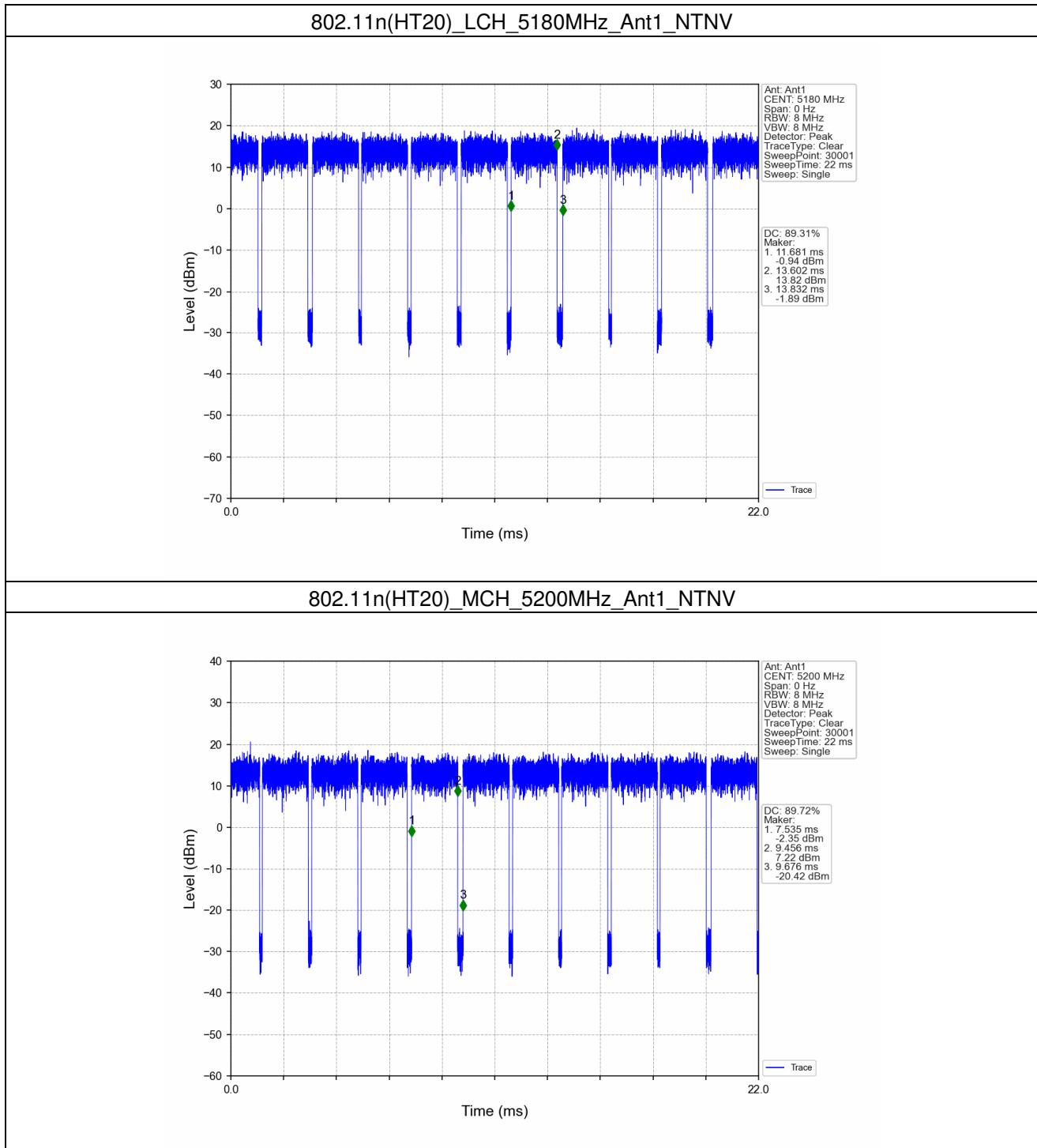
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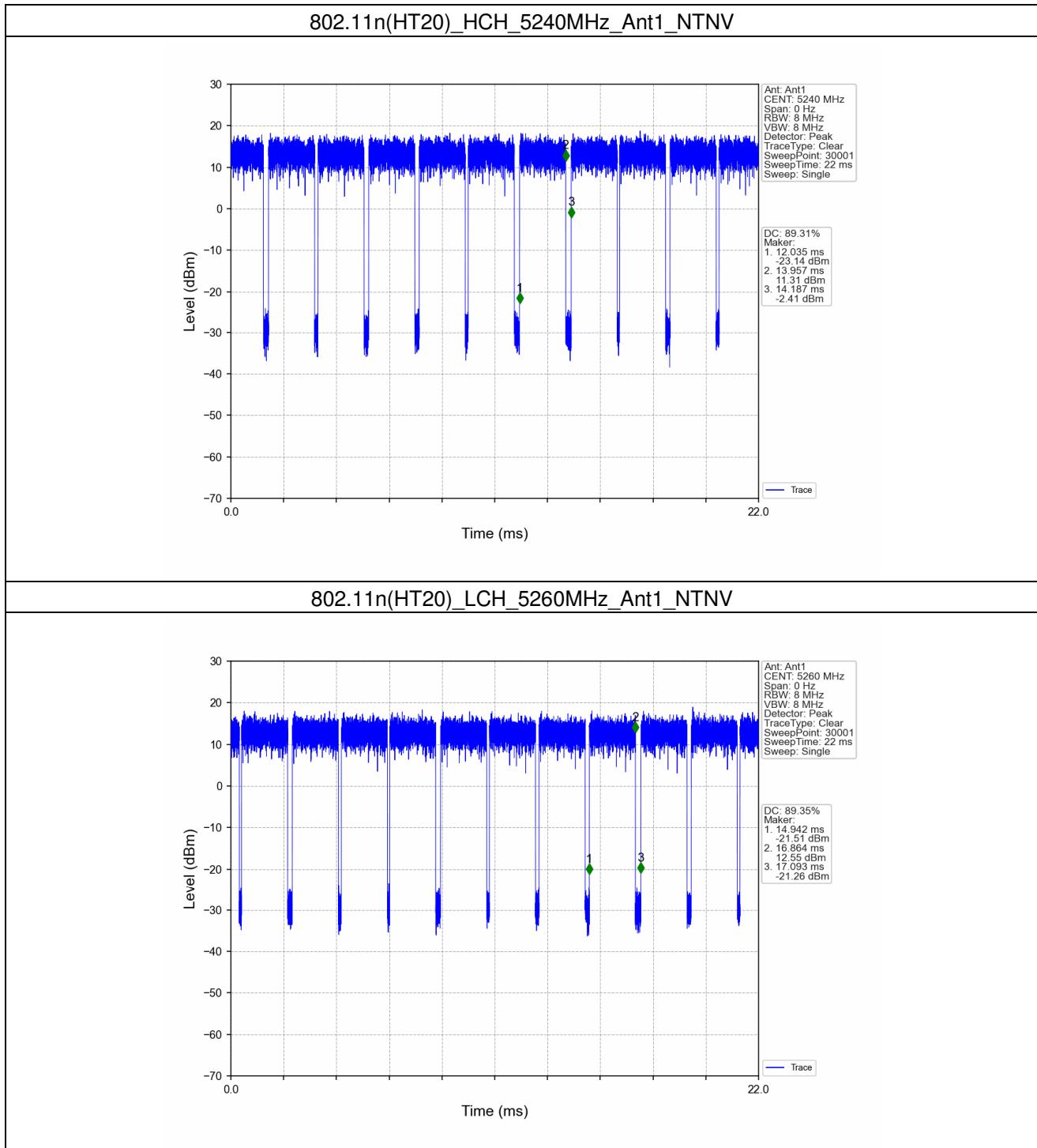


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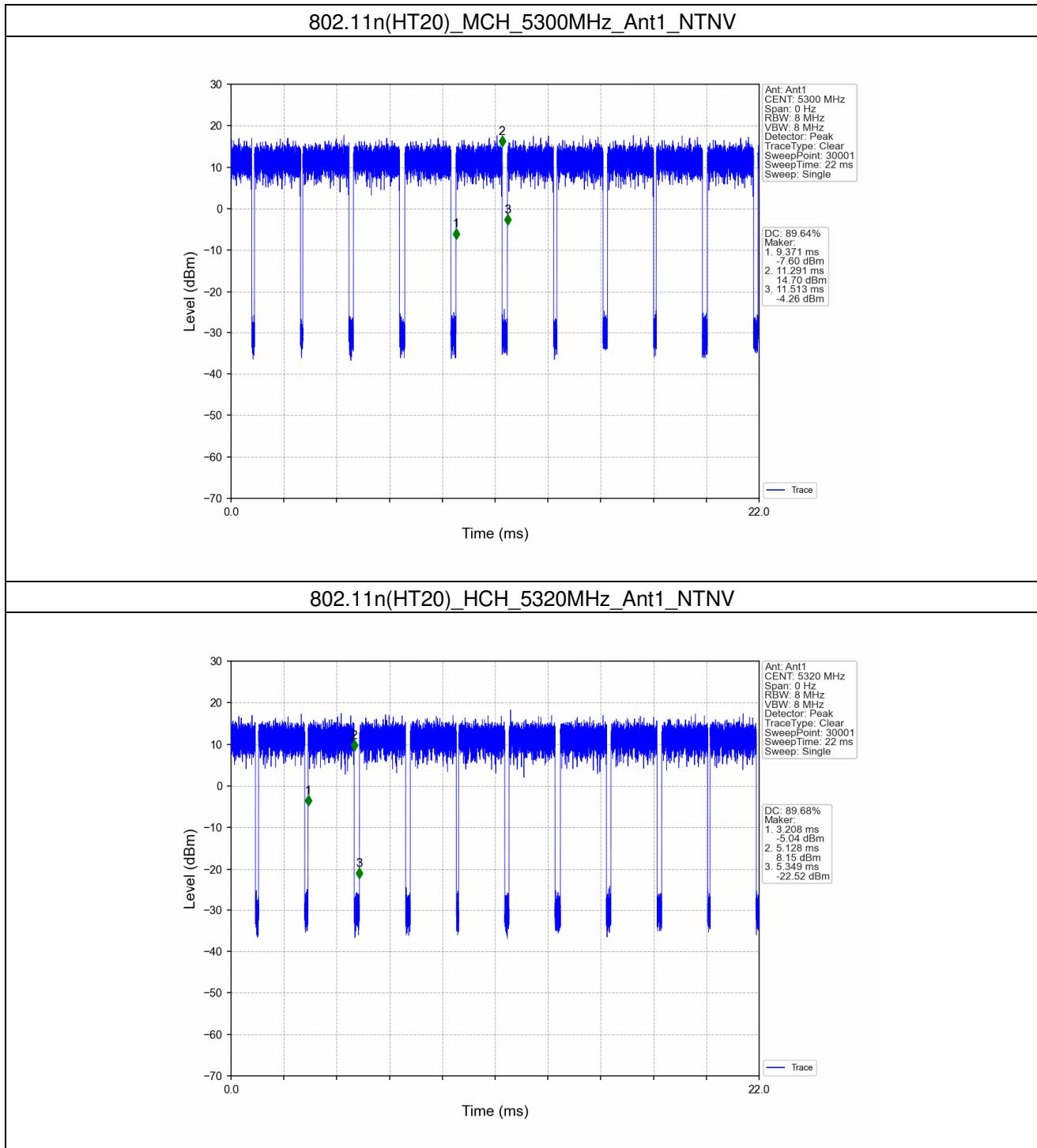


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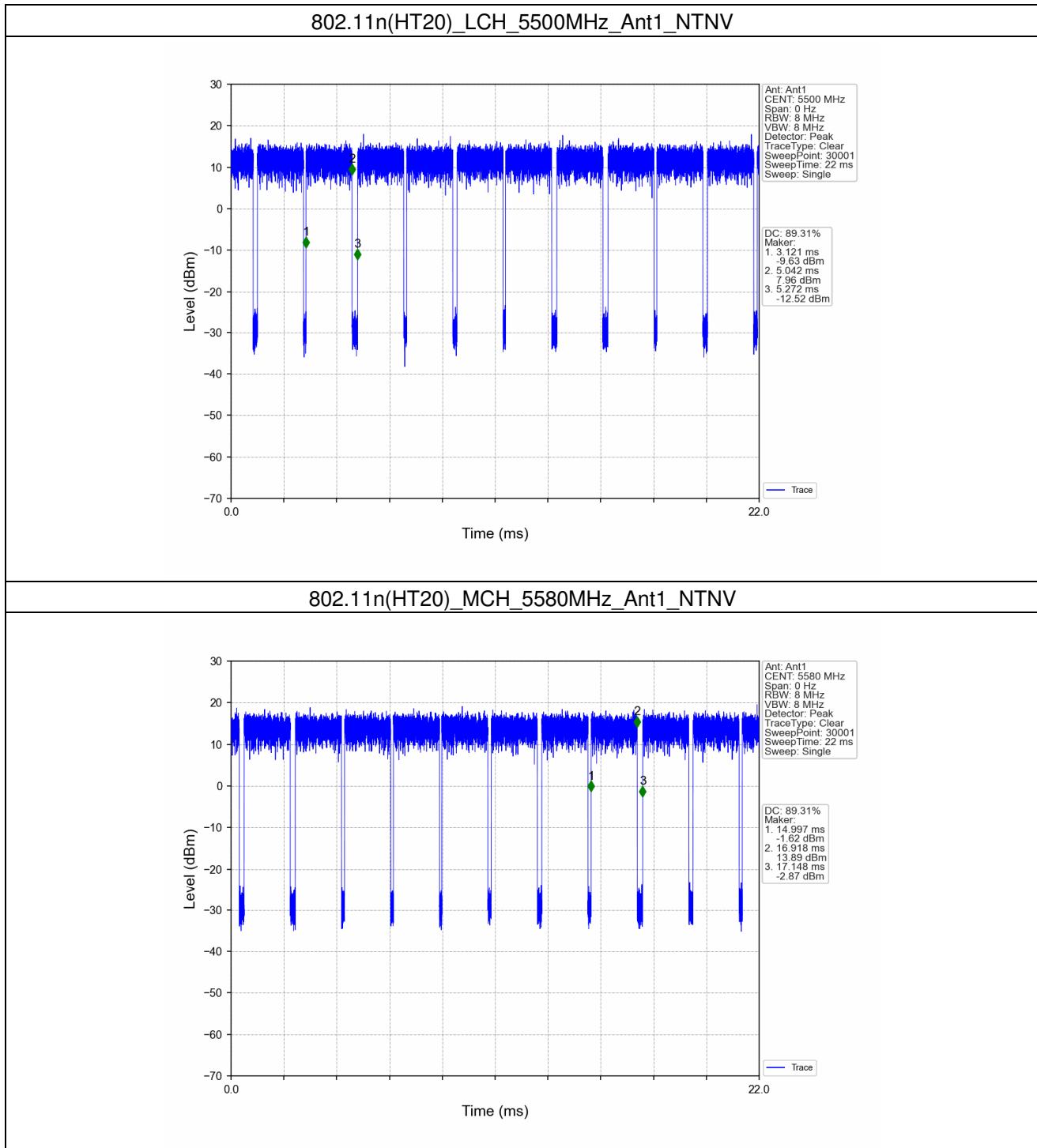


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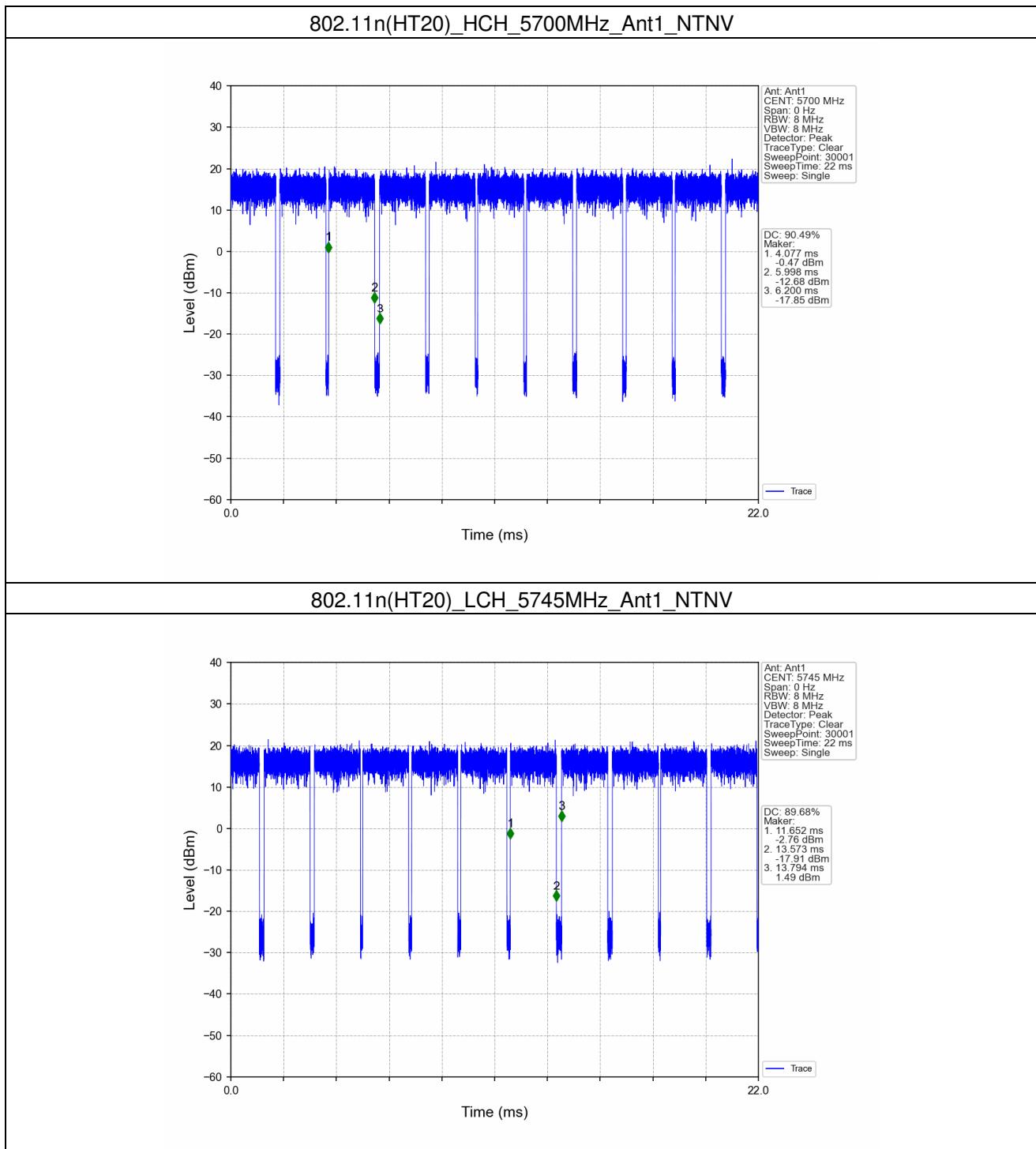


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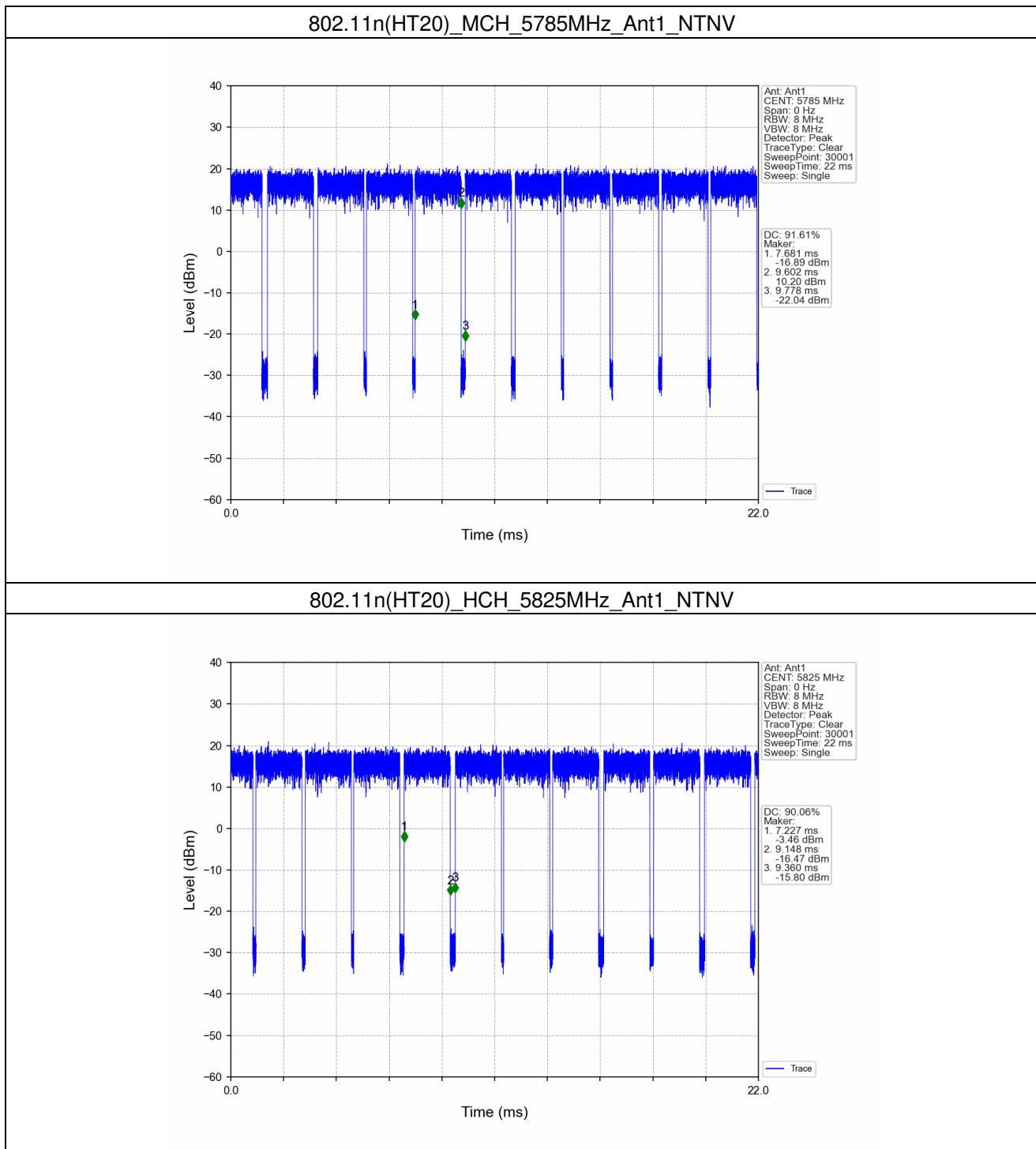


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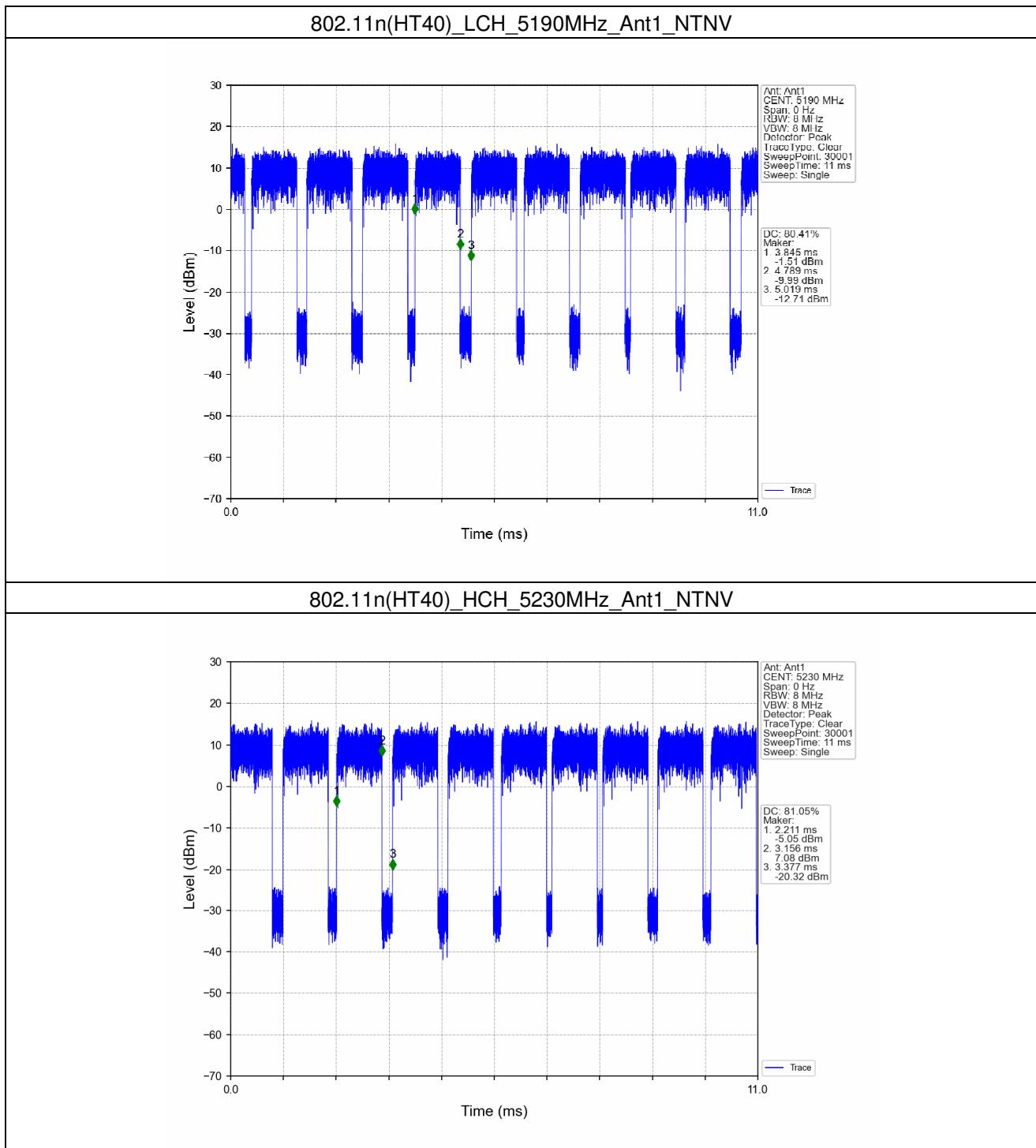


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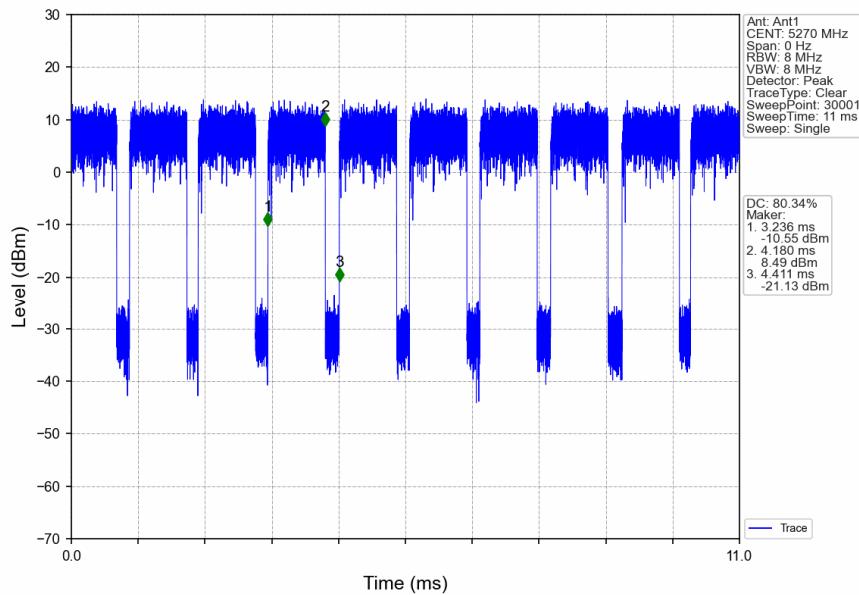
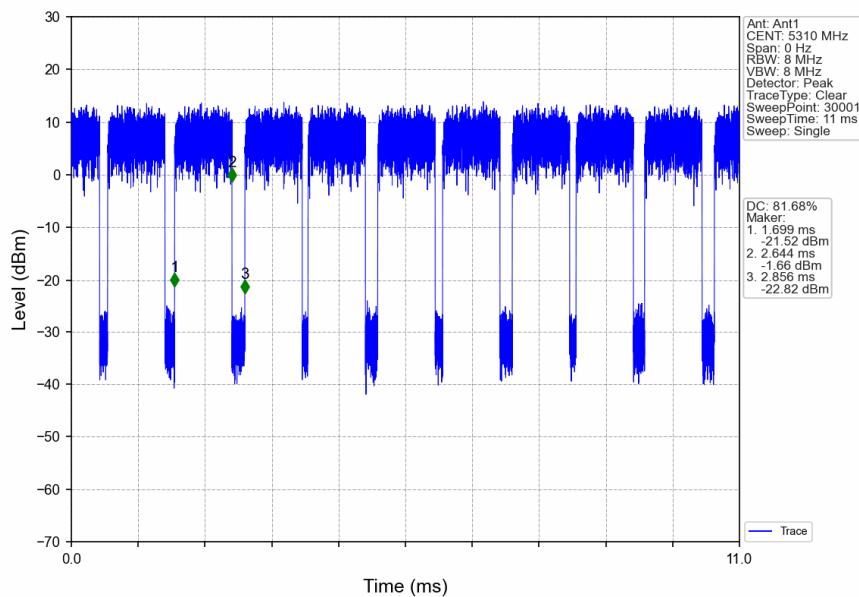


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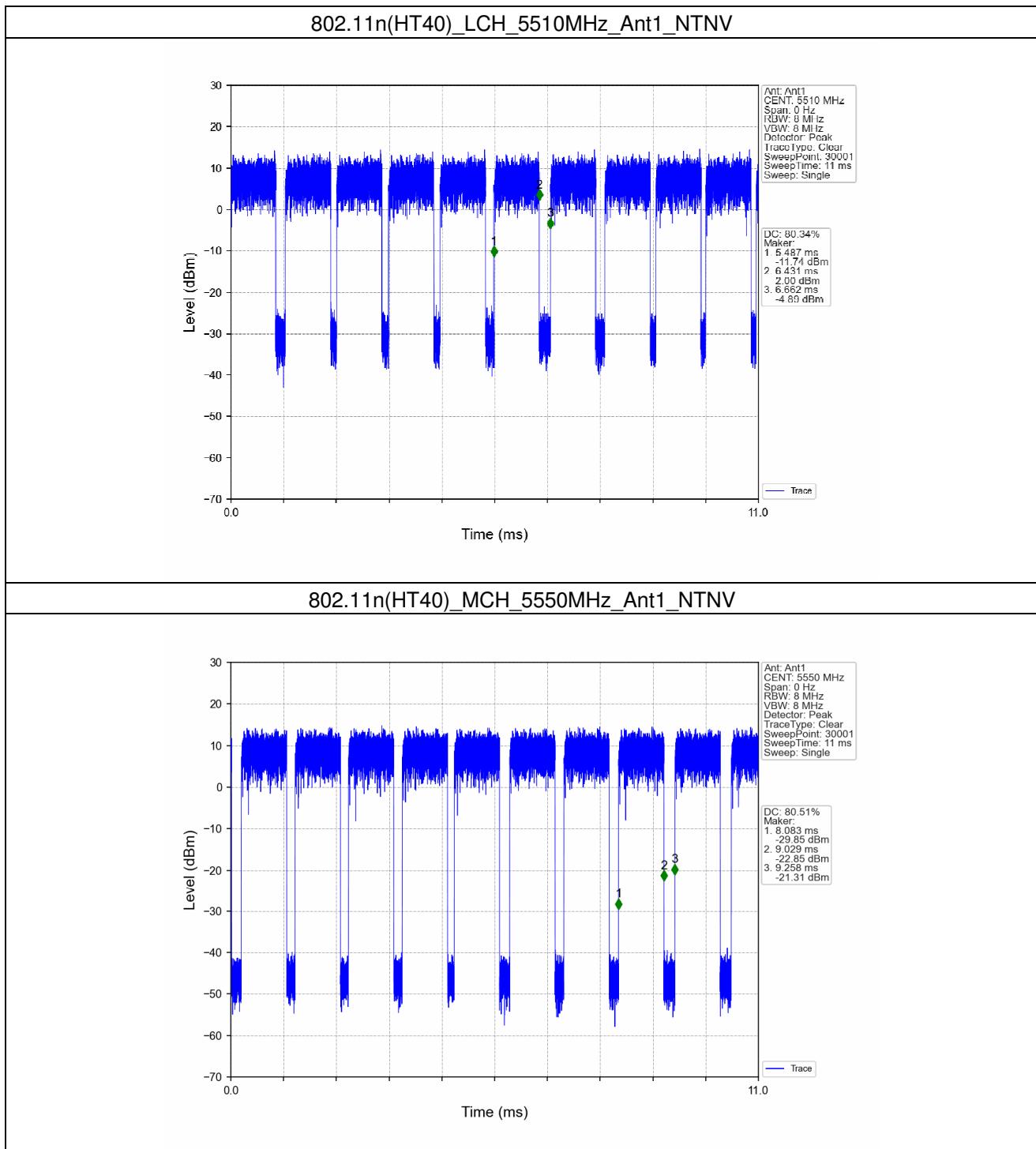
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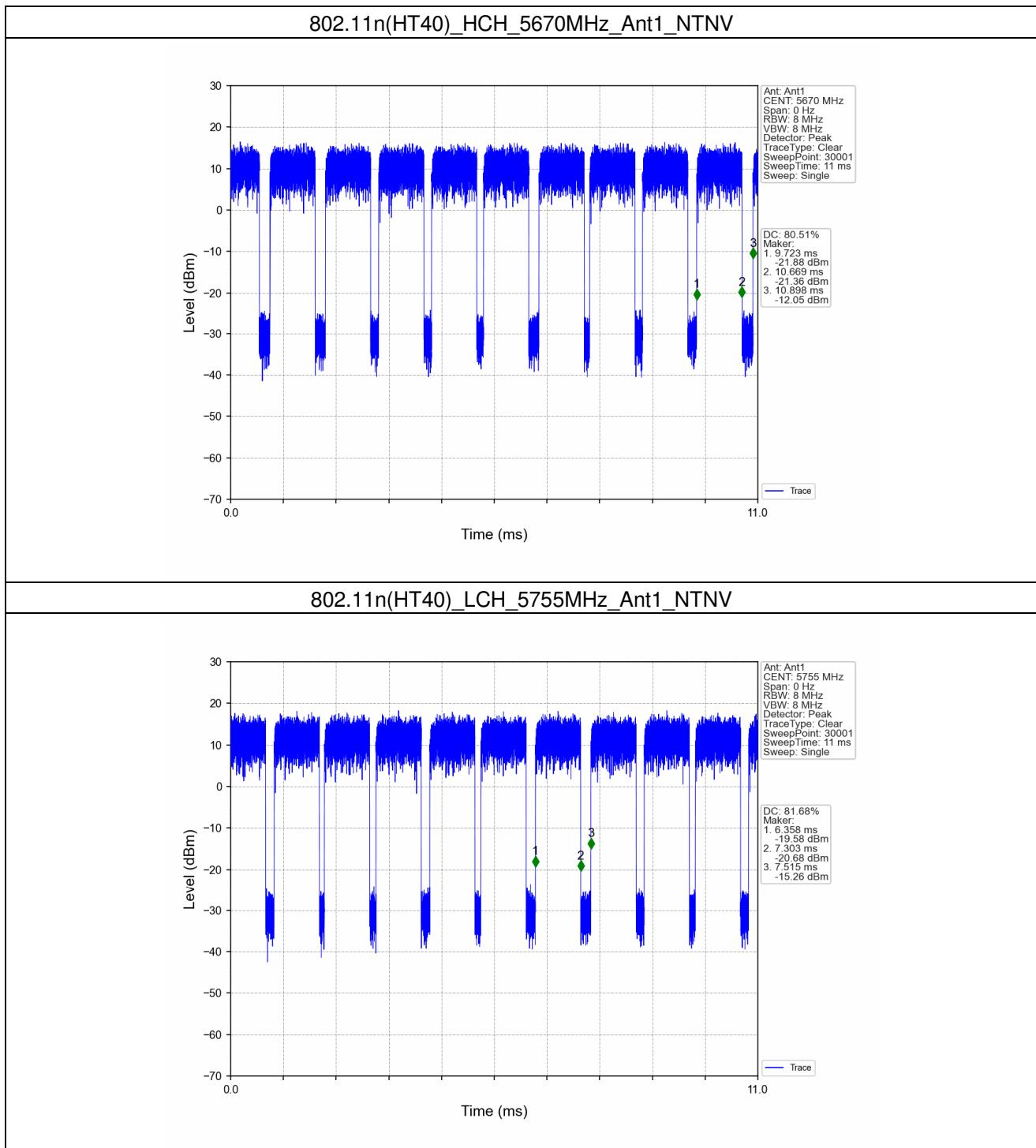


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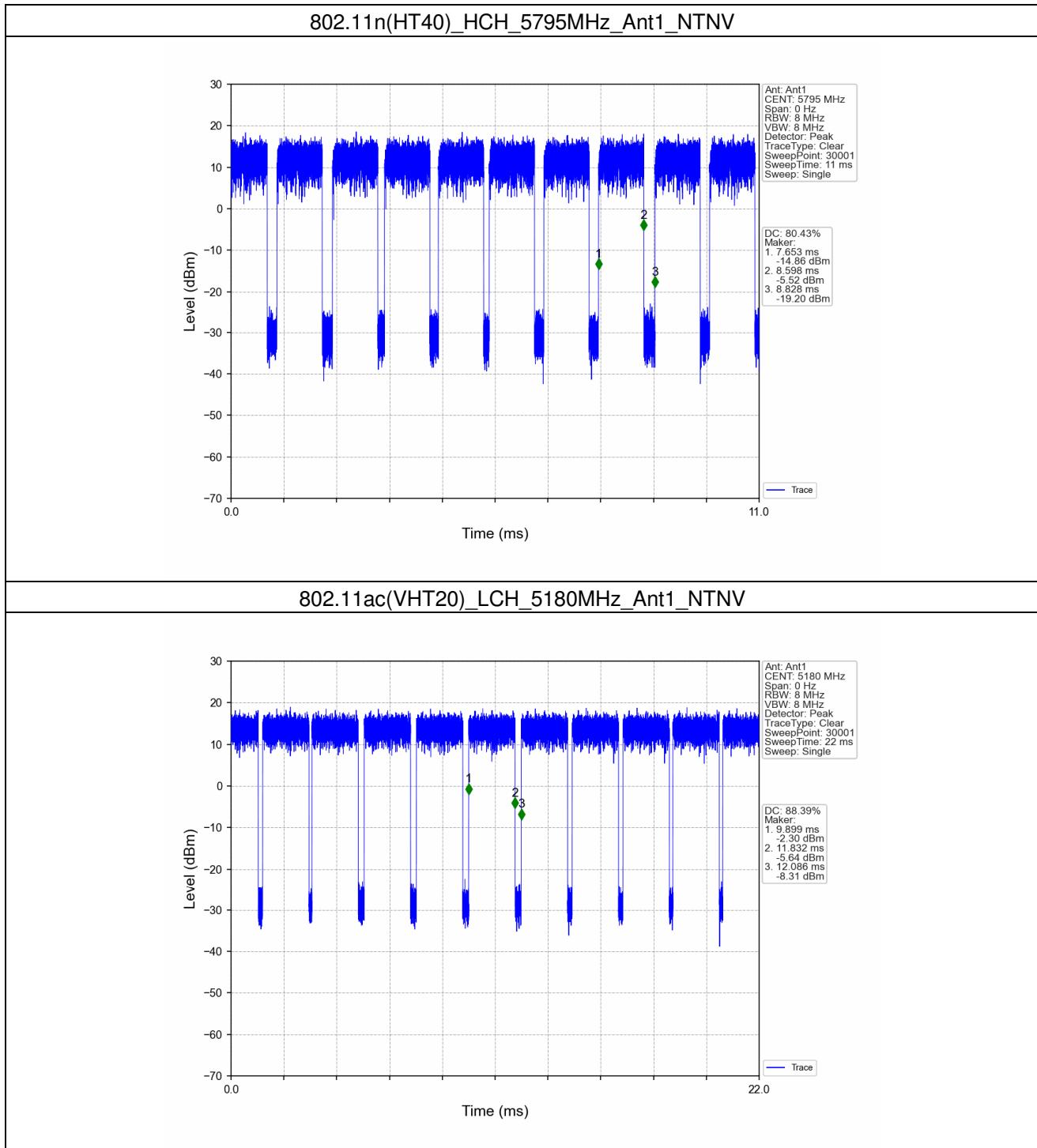


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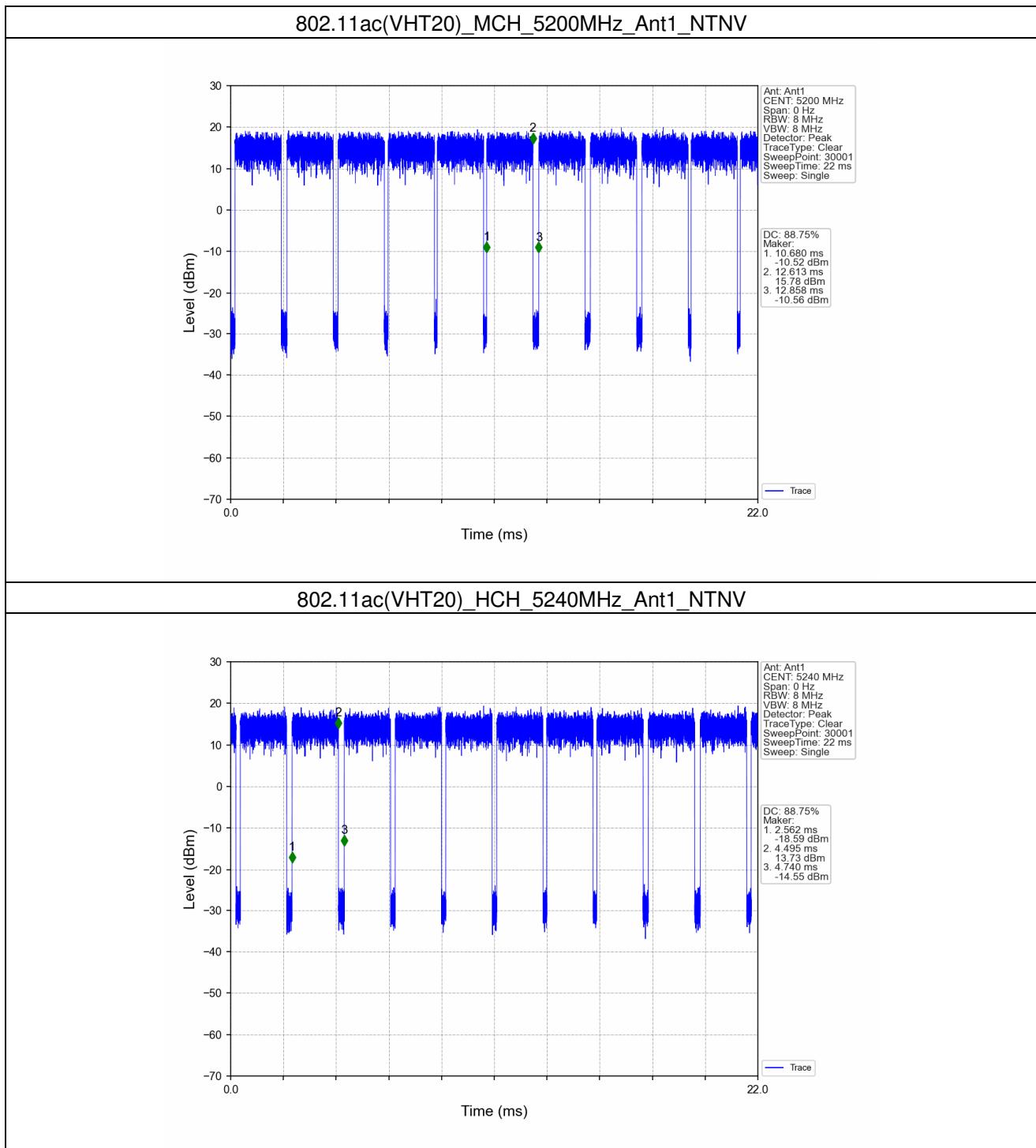
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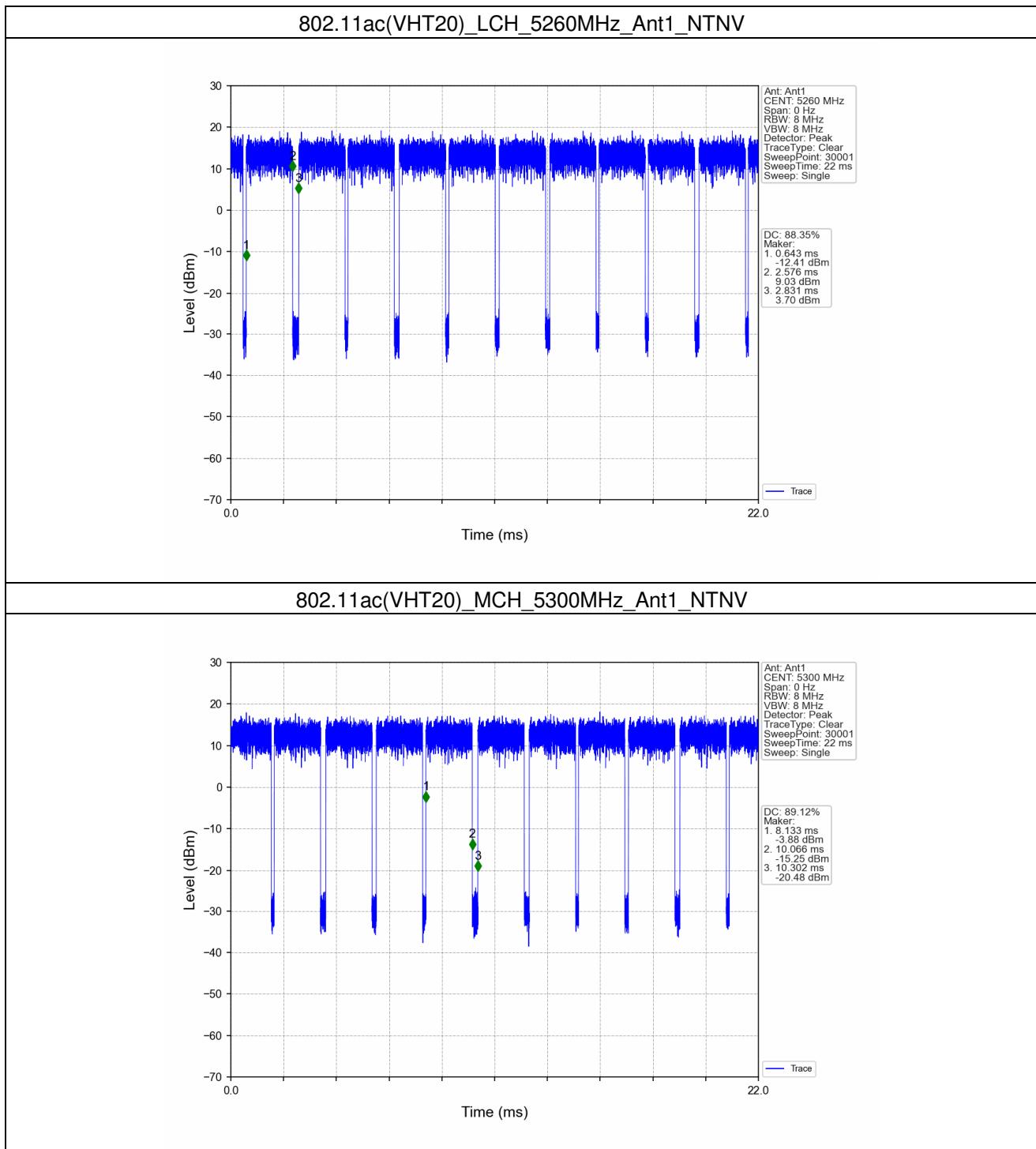


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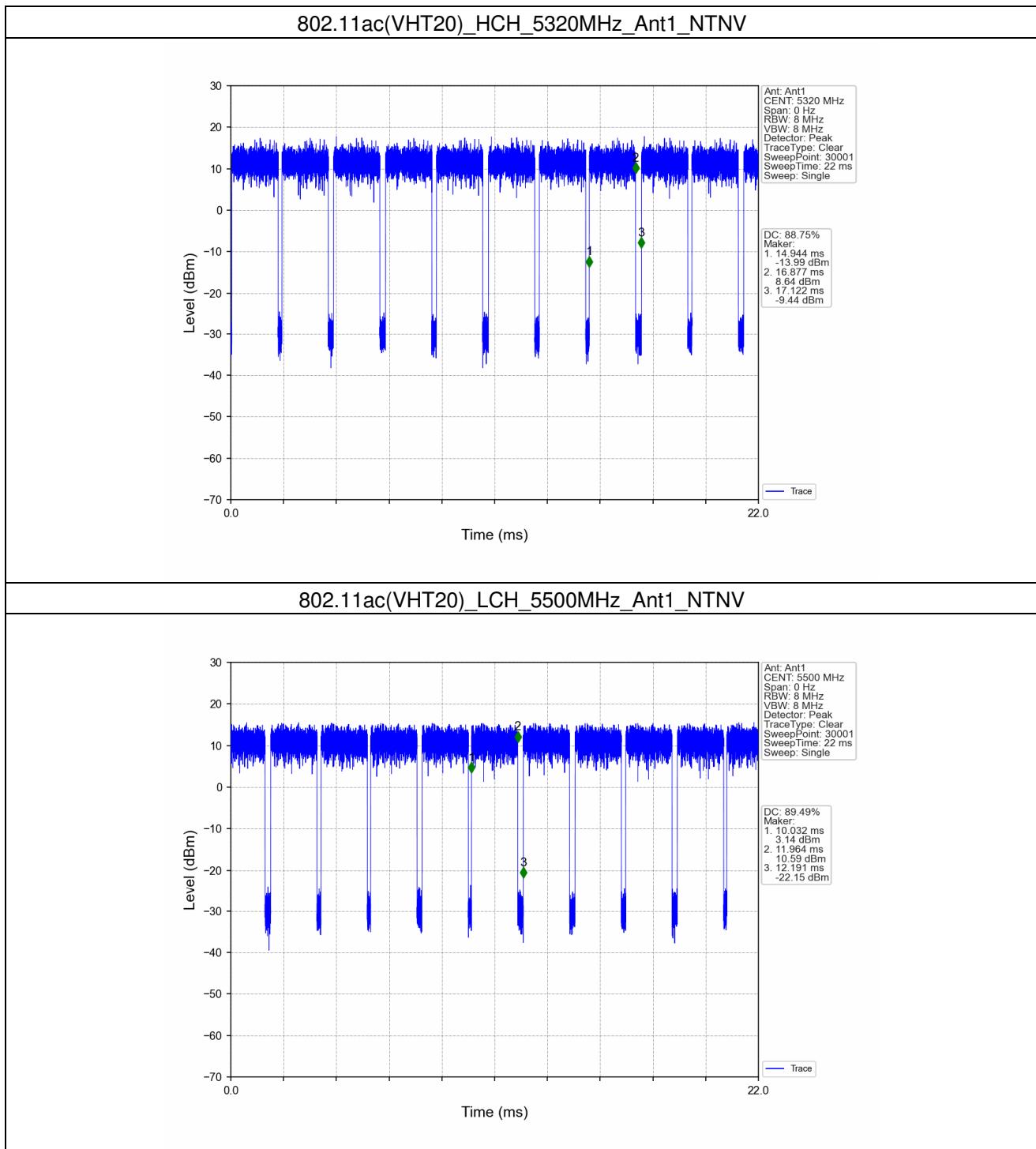


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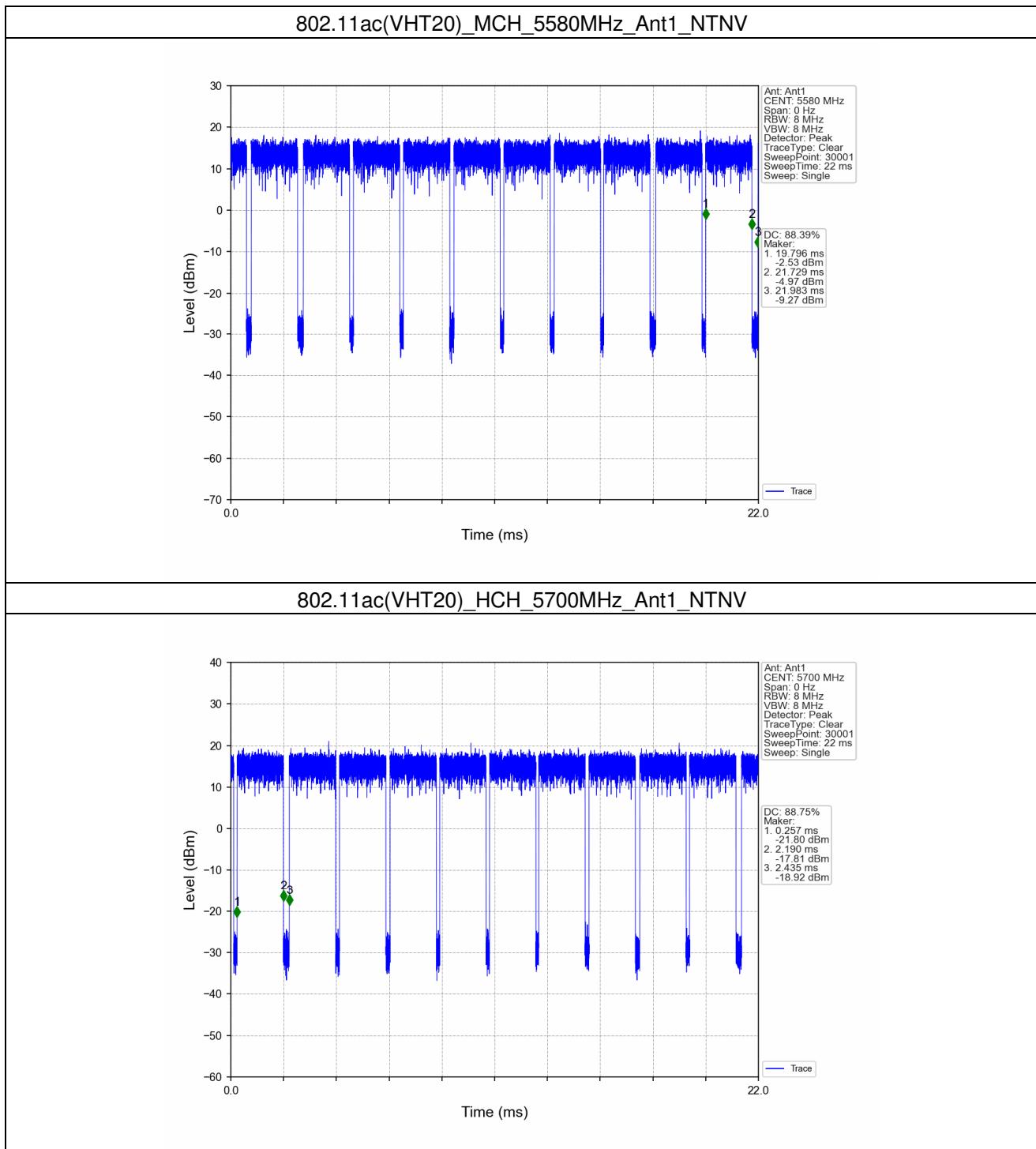


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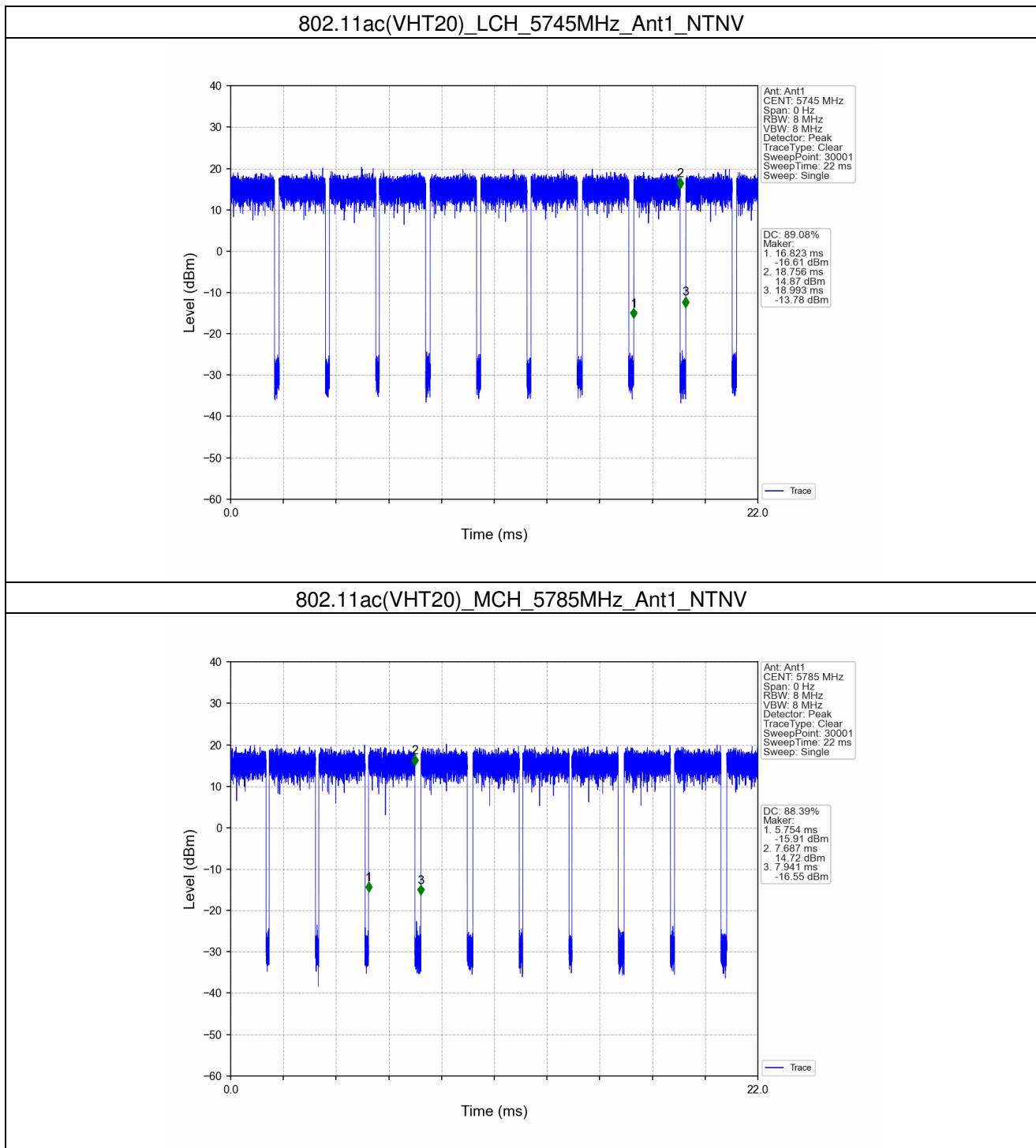


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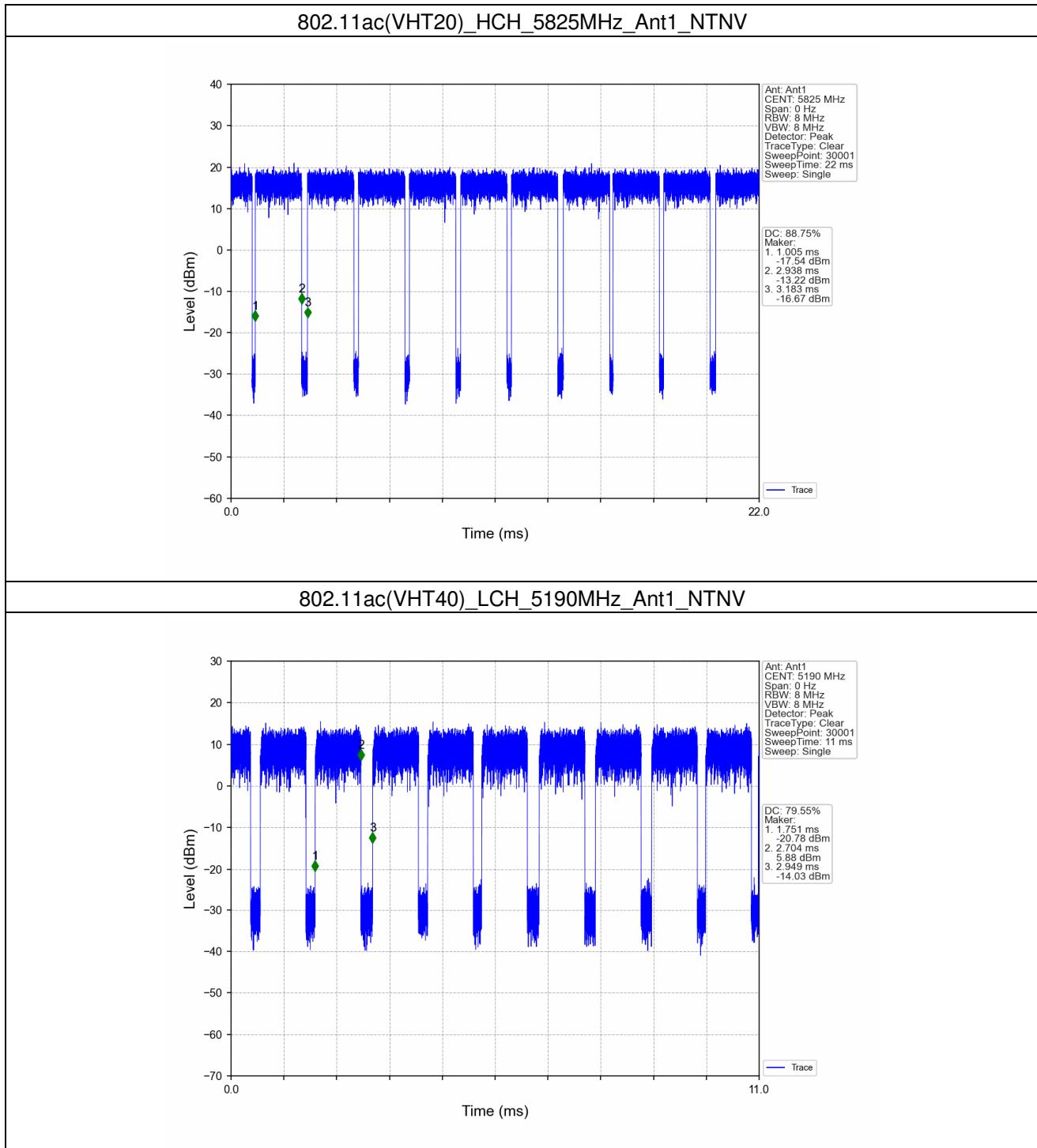
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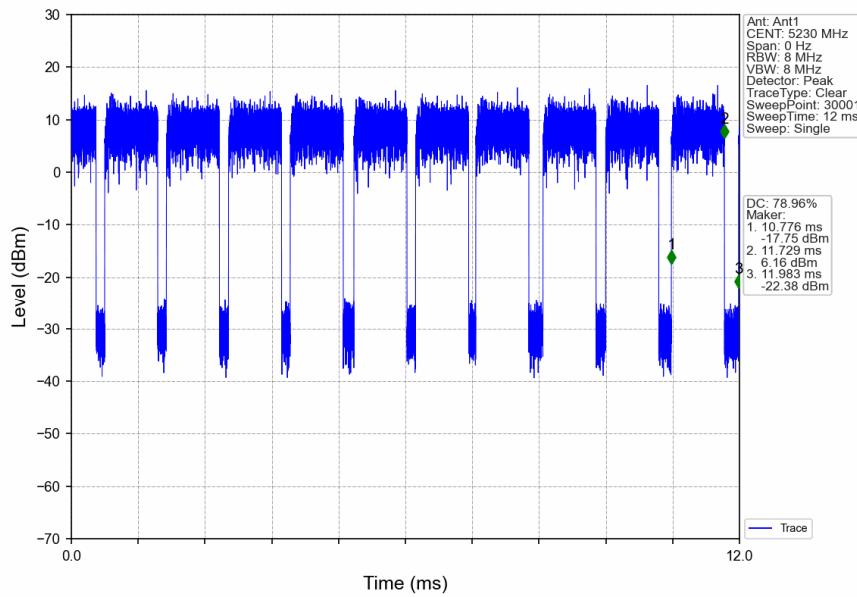
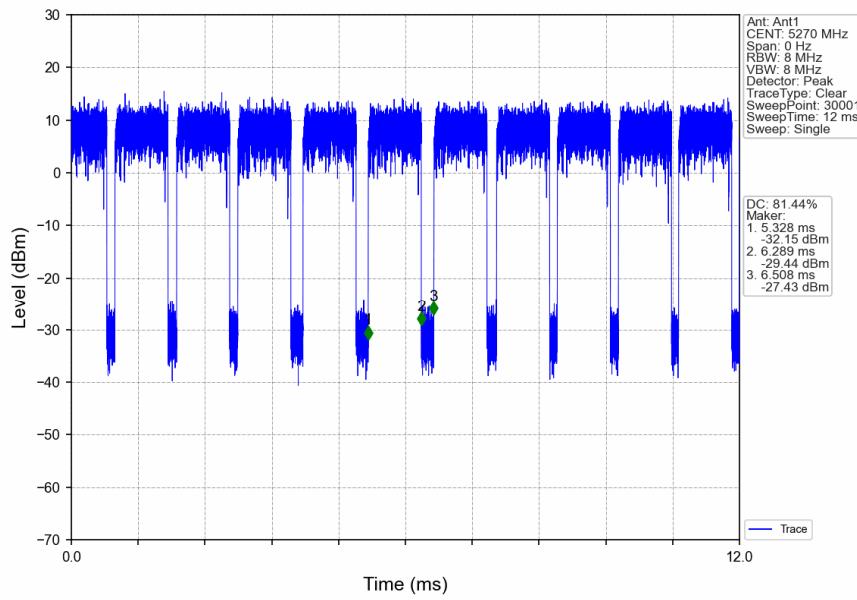
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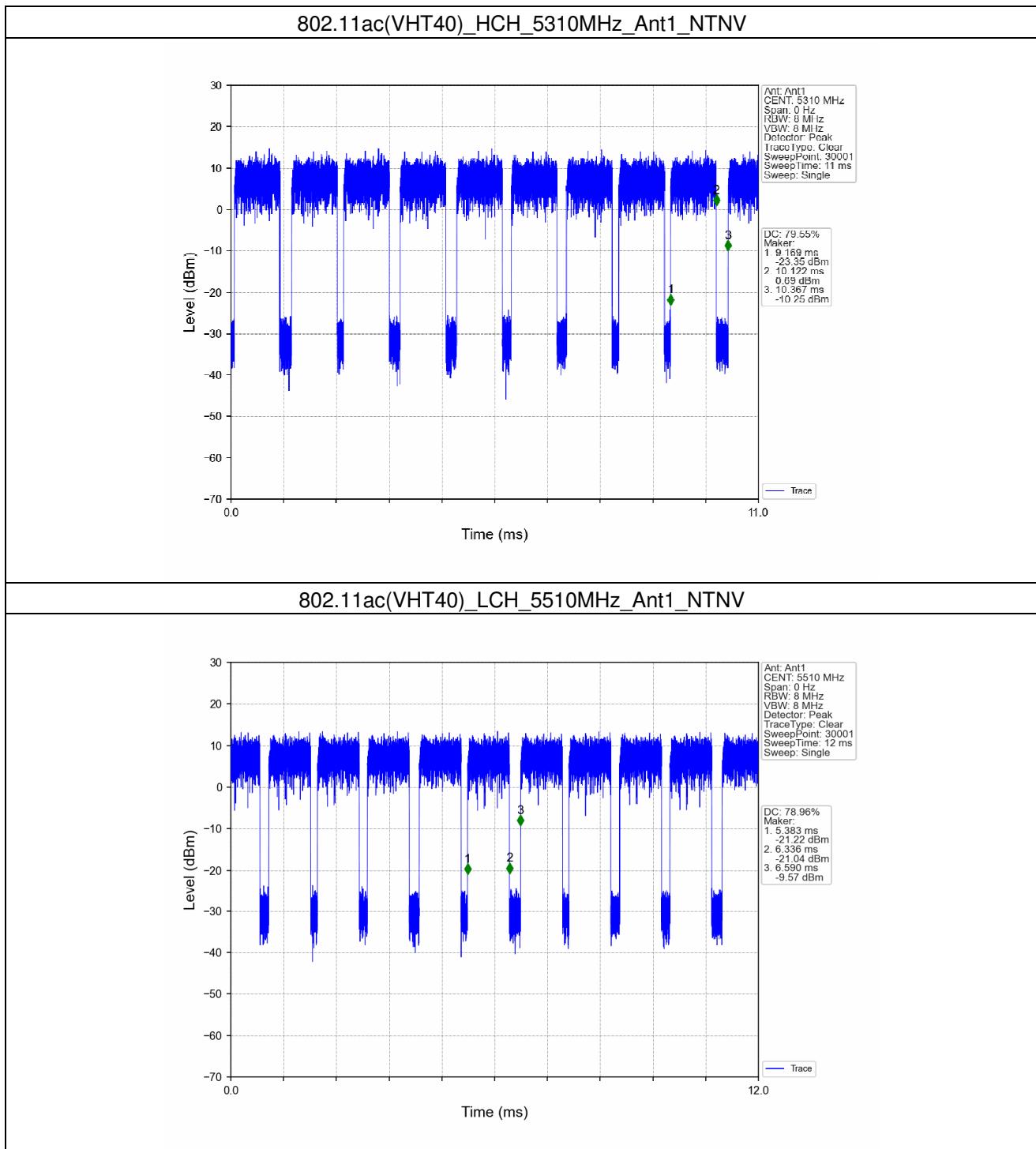
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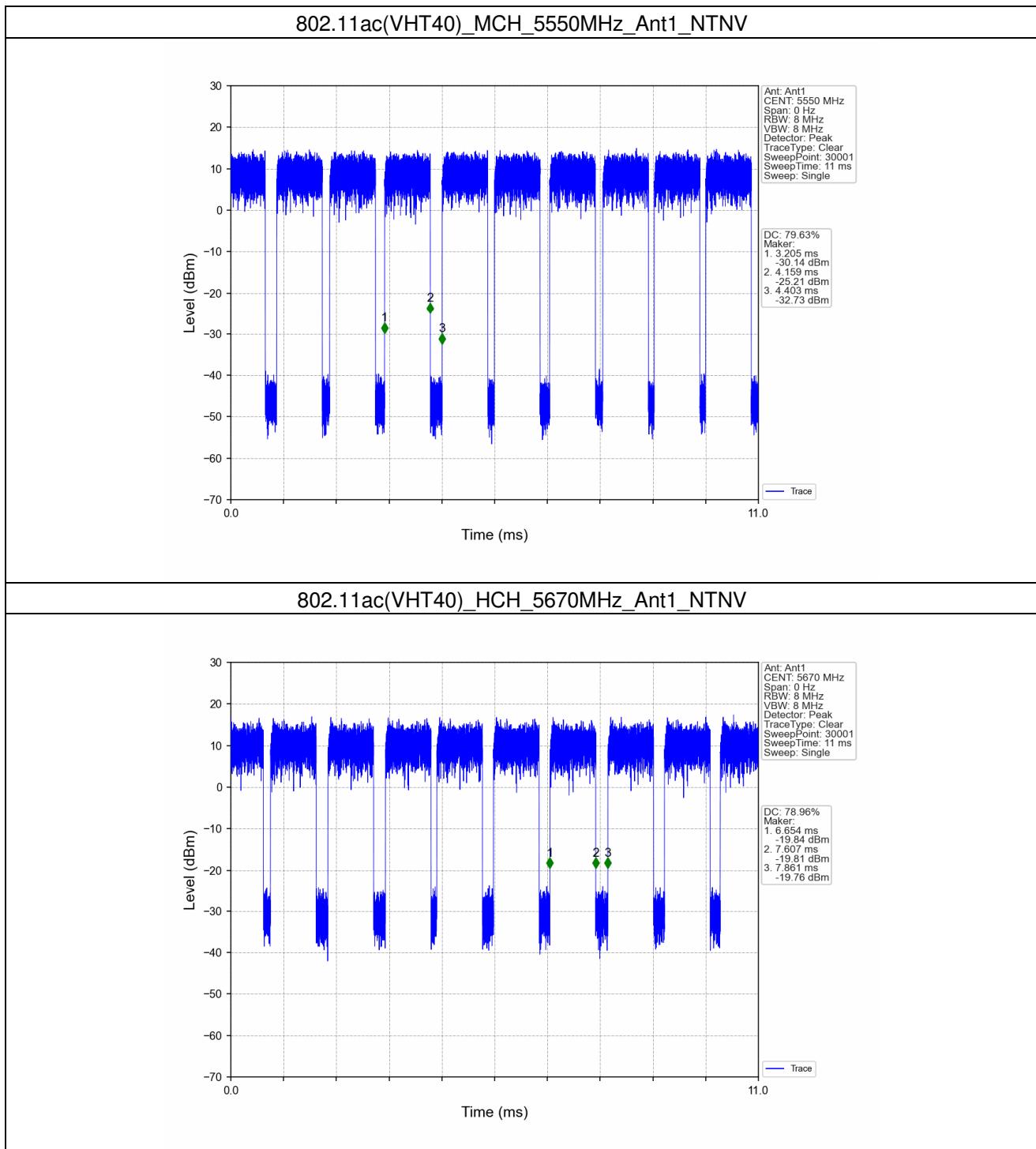


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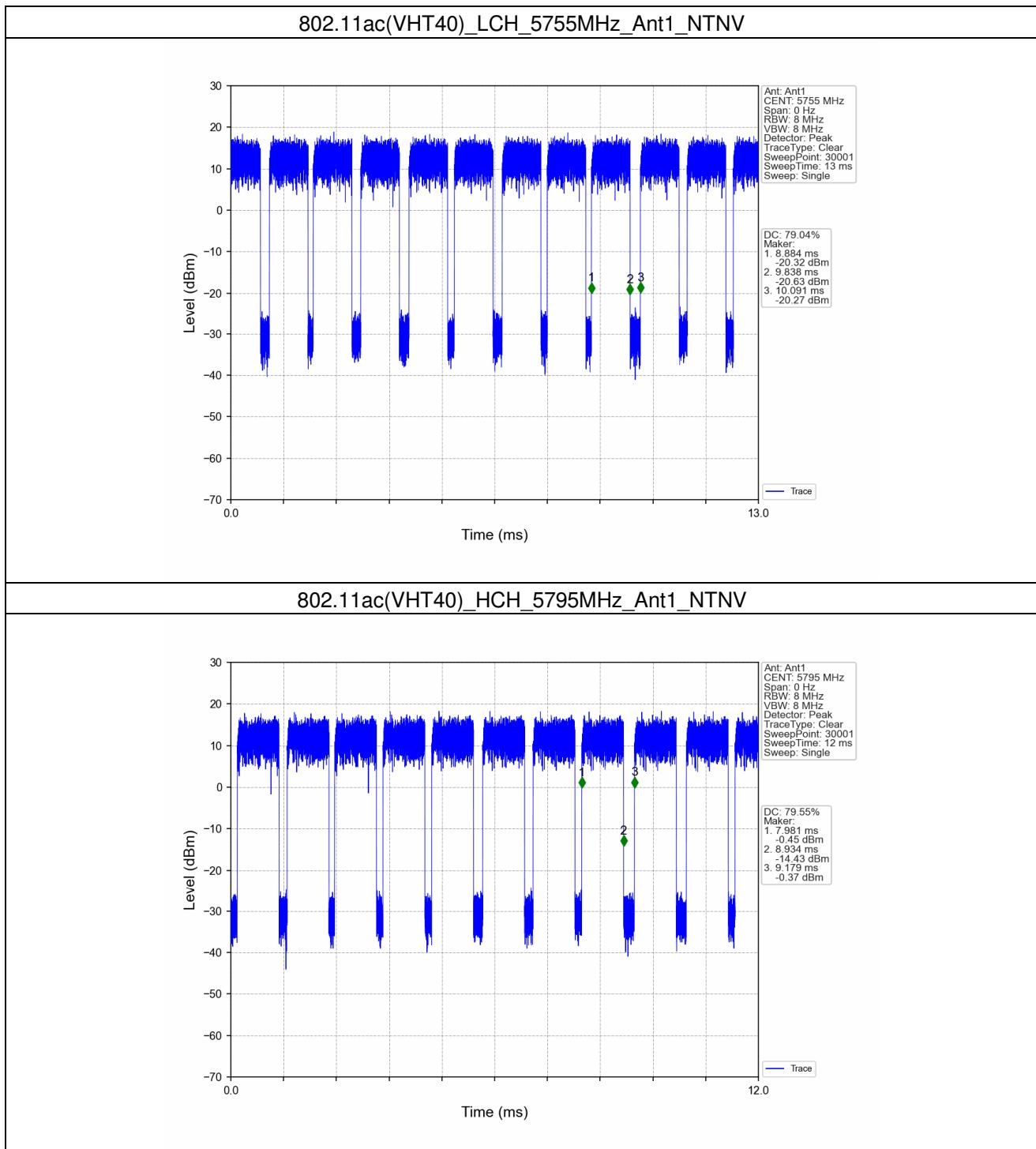


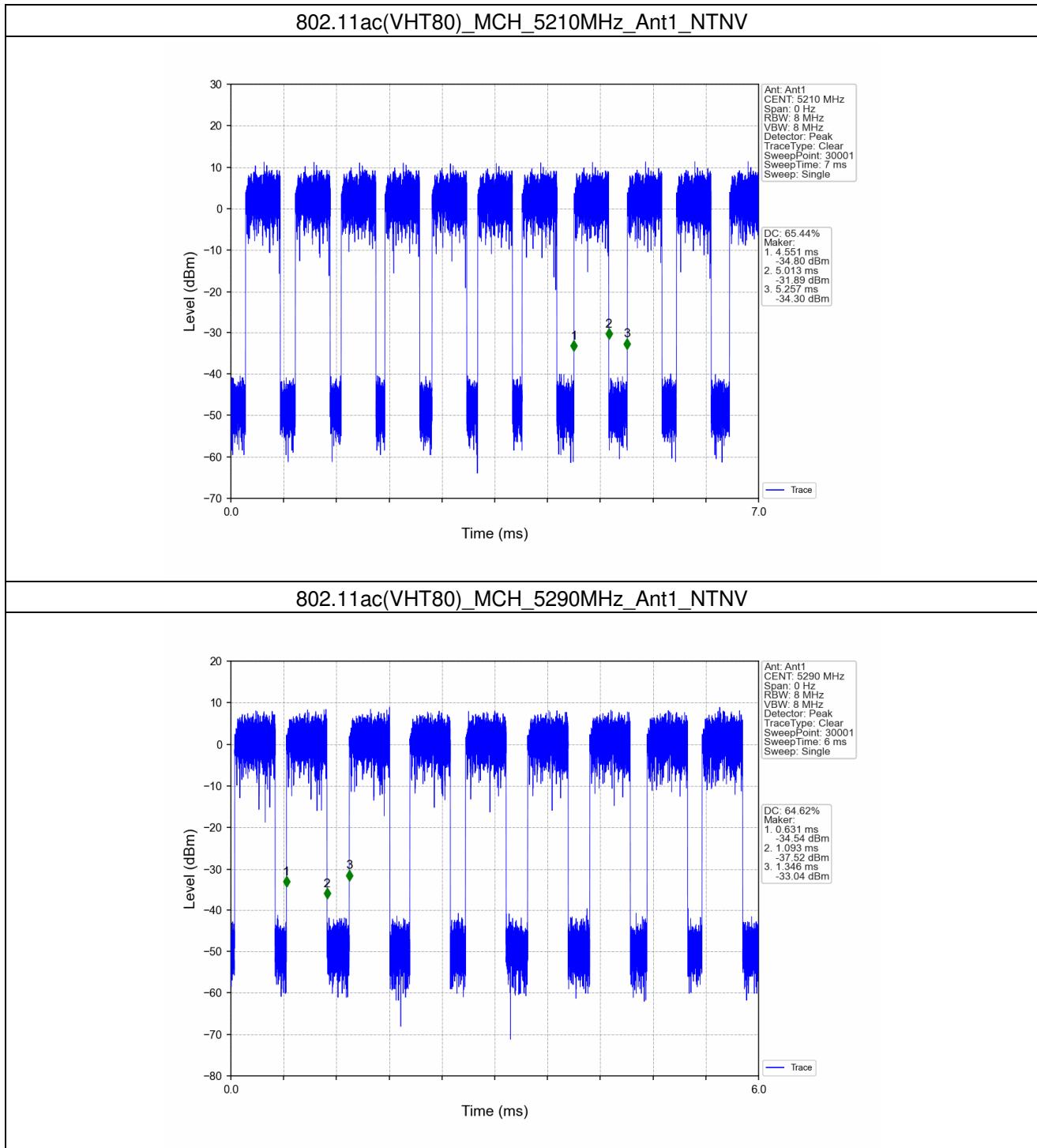
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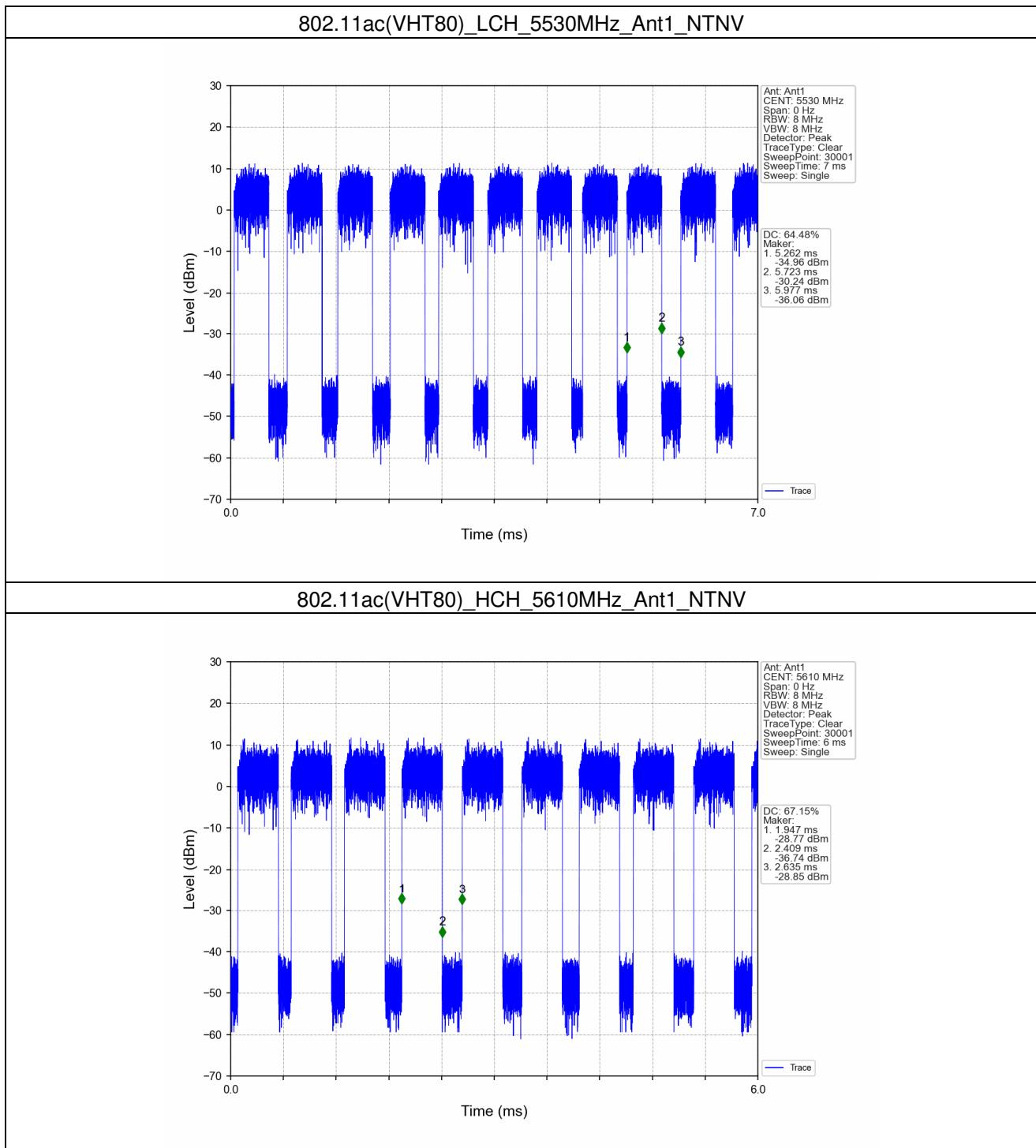


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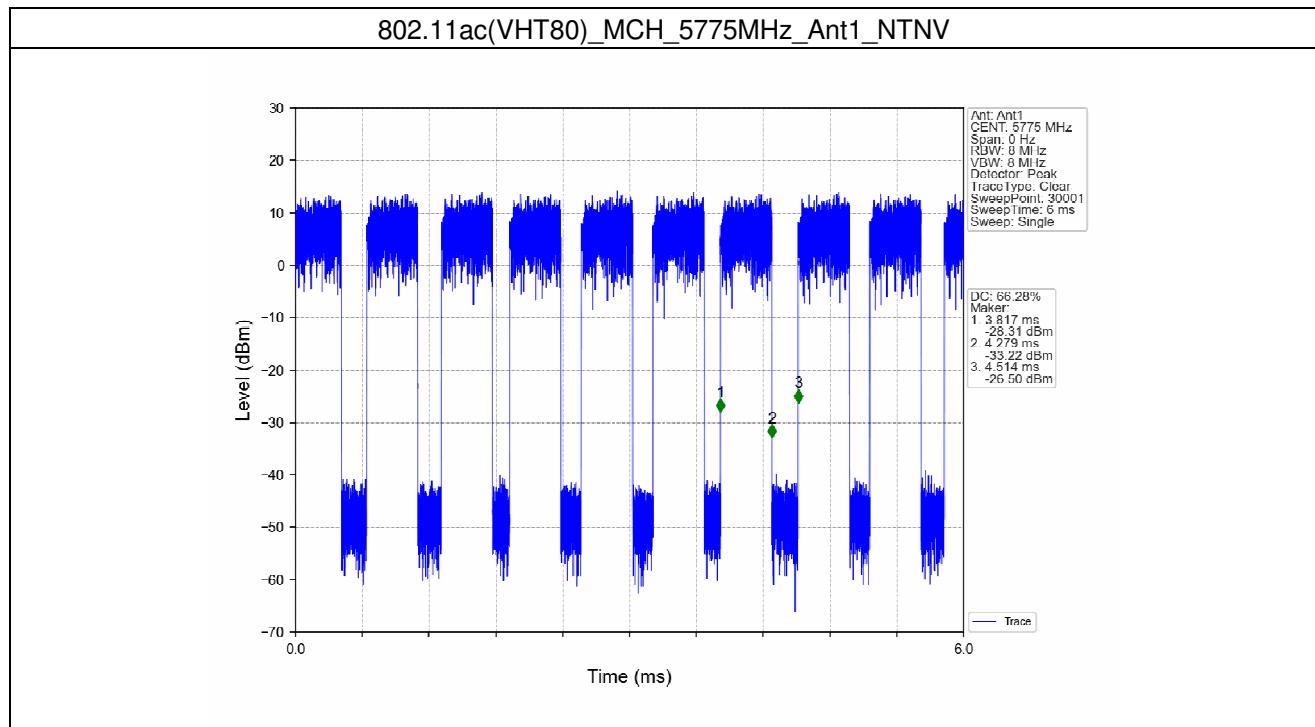


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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.961	/	Pass
		5200	1	16.922	/	Pass
		5240	1	16.887	/	Pass
		5260	1	16.845	/	Pass
		5300	1	16.957	/	Pass
		5320	1	16.808	/	Pass
		5500	1	17.124	/	Pass
		5580	1	18.807	/	Pass
		5700	1	23.201	/	Pass
		5745	1	24.013	/	Pass
		5785	1	24.603	/	Pass
		5825	1	23.652	/	Pass
802.11n (HT20)	MIMO	5180	1 & 2	18.118	/	Pass
		5200	1 & 2	17.978	/	Pass
		5240	1 & 2	18.006	/	Pass
		5260	1 & 2	18.099	/	Pass
		5300	1 & 2	17.911	/	Pass
		5320	1 & 2	17.965	/	Pass
		5500	1 & 2	18.859	/	Pass
		5580	1 & 2	20.215	/	Pass
		5700	1 & 2	27.770	/	Pass
		5745	1 & 2	26.972	/	Pass
		5785	1 & 2	25.906	/	Pass
		5825	1 & 2	25.772	/	Pass
802.11n (HT40)	MIMO	5190	1 & 2	36.839	/	Pass
		5230	1 & 2	36.498	/	Pass
		5270	1 & 2	36.721	/	Pass
		5310	1 & 2	36.680	/	Pass
		5510	1 & 2	37.870	/	Pass
		5550	1 & 2	37.954	/	Pass
		5670	1 & 2	42.534	/	Pass
		5755	1 & 2	47.522	/	Pass
		5795	1 & 2	43.989	/	Pass

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Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT20)	MIMO	5180	1 & 2	18.096	/	Pass
		5200	1 & 2	18.160	/	Pass
		5240	1 & 2	18.148	/	Pass
		5260	1 & 2	18.141	/	Pass
		5300	1 & 2	18.024	/	Pass
		5320	1 & 2	17.943	/	Pass
		5500	1 & 2	20.975	/	Pass
		5580	1 & 2	23.002	/	Pass
		5700	1 & 2	26.259	/	Pass
		5745	1 & 2	25.875	/	Pass
		5785	1 & 2	25.575	/	Pass
		5825	1 & 2	25.736	/	Pass
802.11ac (VHT40)	MIMO	5190	1 & 2	36.660	/	Pass
		5230	1 & 2	36.558	/	Pass
		5270	1 & 2	36.578	/	Pass
		5310	1 & 2	36.647	/	Pass
		5510	1 & 2	37.482	/	Pass
		5550	1 & 2	38.517	/	Pass
		5670	1 & 2	42.854	/	Pass
		5755	1 & 2	49.064	/	Pass
		5795	1 & 2	43.495	/	Pass
		5210	1 & 2	75.548	/	Pass
802.11ac (VHT80)	MIMO	5290	1 & 2	75.483	/	Pass
		5530	1 & 2	86.609	/	Pass
		5610	1 & 2	82.886	/	Pass
		5775	1 & 2	99.977	/	Pass

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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.295	≥ 0.5	Pass
		5785	1	16.348	≥ 0.5	Pass
		5825	1	16.308	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1 & 2	16.763	≥ 0.5	Pass
		5785	1 & 2	17.316	≥ 0.5	Pass
		5825	1 & 2	16.987	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1 & 2	34.759	≥ 0.5	Pass
		5795	1 & 2	35.065	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1 & 2	16.223	≥ 0.5	Pass
		5785	1 & 2	16.247	≥ 0.5	Pass
		5825	1 & 2	17.171	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1 & 2	33.807	≥ 0.5	Pass
		5795	1 & 2	35.158	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1 & 2	72.578	≥ 0.5	Pass

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2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	25.261	/	Pass
		5200	1	24.194	/	Pass
		5240	1	24.071	/	Pass
		5260	1	20.421	/	Pass
		5300	1	22.904	/	Pass
		5320	1	19.713	/	Pass
		5500	1	27.629	/	Pass
		5580	1	31.926	/	Pass
		5700	1	38.391	/	Pass
802.11n (HT20)	MIMO	5180	1 & 2	26.082	/	Pass
		5200	1 & 2	22.749	/	Pass
		5240	1 & 2	22.254	/	Pass
		5260	1 & 2	24.168	/	Pass
		5300	1 & 2	22.904	/	Pass
		5320	1 & 2	21.625	/	Pass
		5500	1 & 2	29.323	/	Pass
		5580	1 & 2	39.697	/	Pass
		5700	1 & 2	44.834	/	Pass
802.11n (HT40)	MIMO	5190	1 & 2	49.902	/	Pass
		5230	1 & 2	46.431	/	Pass
		5270	1 & 2	45.835	/	Pass
		5310	1 & 2	42.787	/	Pass
		5510	1 & 2	62.338	/	Pass
		5550	1 & 2	68.828	/	Pass
		5670	1 & 2	81.086	/	Pass
802.11ac (VHT20)	MIMO	5180	1 & 2	27.126	/	Pass
		5200	1 & 2	33.959	/	Pass
		5240	1 & 2	24.189	/	Pass
		5260	1 & 2	30.013	/	Pass
		5300	1 & 2	21.828	/	Pass
		5320	1 & 2	23.581	/	Pass
		5500	1 & 2	39.228	/	Pass
		5580	1 & 2	36.515	/	Pass
		5700	1 & 2	39.057	/	Pass

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Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11ac (VHT40)	MIMO	5190	1 & 2	41.542	/	Pass
		5230	1 & 2	50.709	/	Pass
		5270	1 & 2	45.056	/	Pass
		5310	1 & 2	52.826	/	Pass
		5510	1 & 2	65.939	/	Pass
		5550	1 & 2	69.653	/	Pass
		5670	1 & 2	78.096	/	Pass
802.11ac (VHT80)	MIMO	5210	1 & 2	119.900	/	Pass
		5290	1 & 2	113.124	/	Pass
		5530	1 & 2	139.789	/	Pass
		5610	1 & 2	156.855	/	Pass

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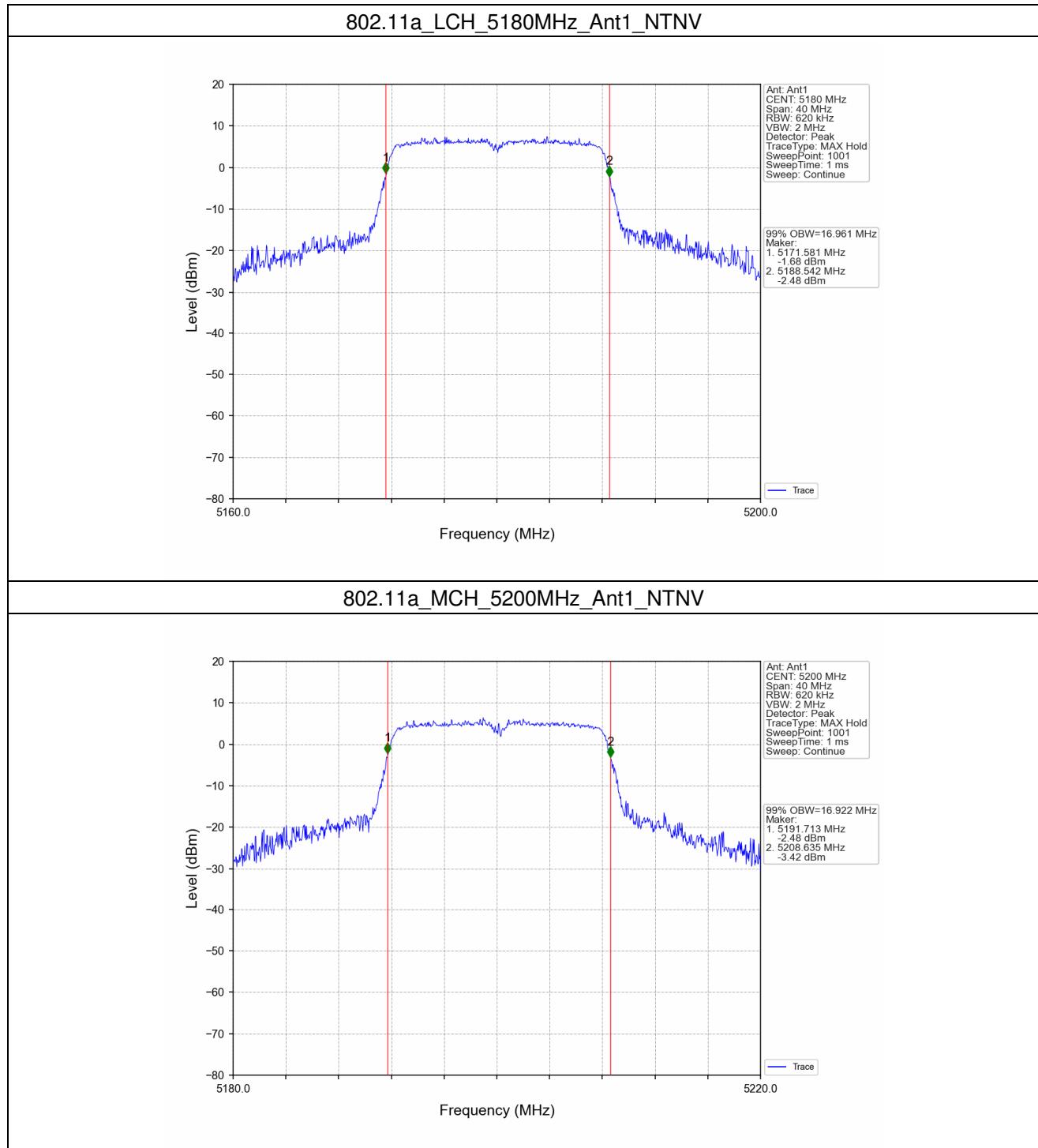
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2.2 Test Graph

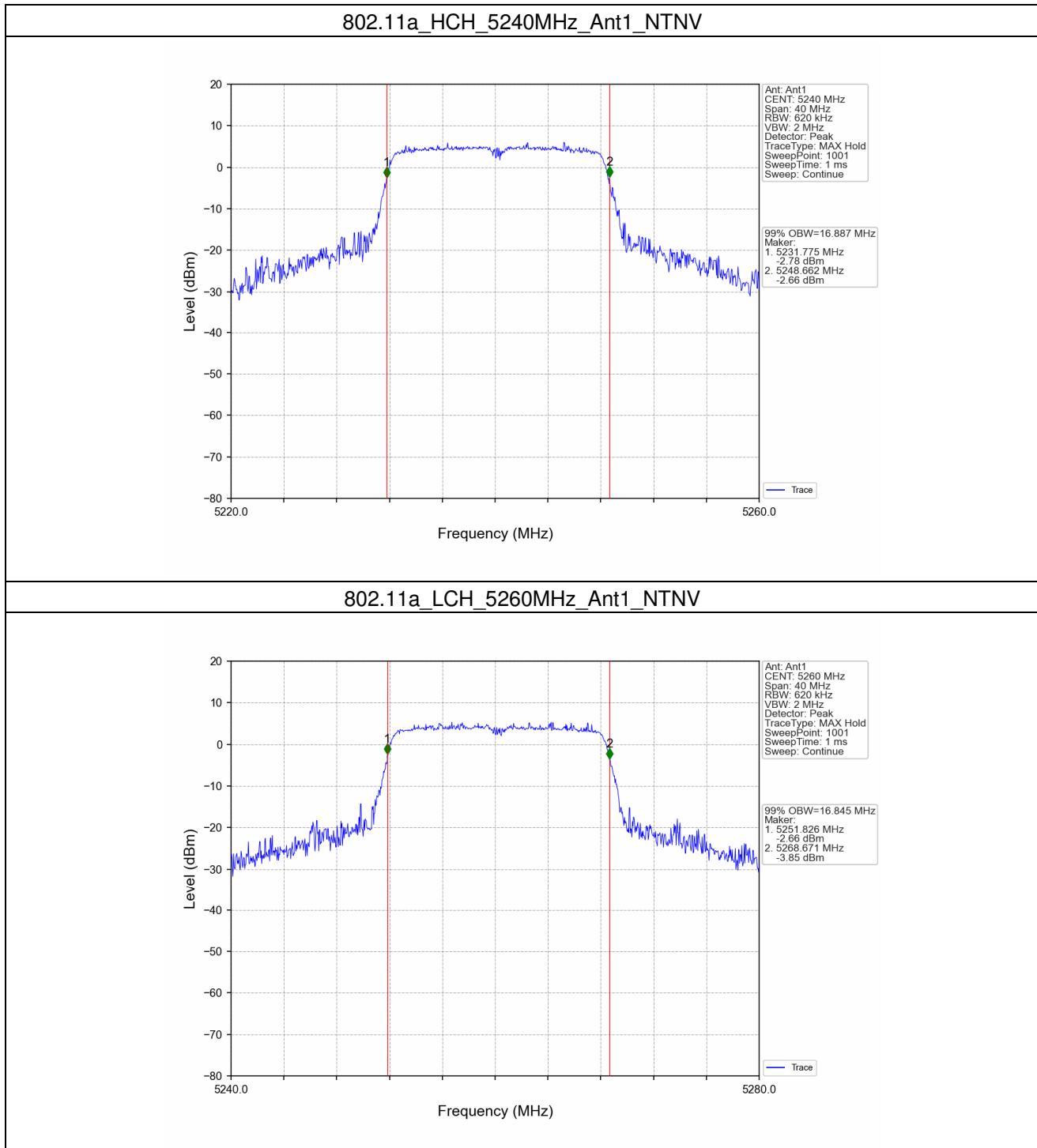
2.2.1 OBW



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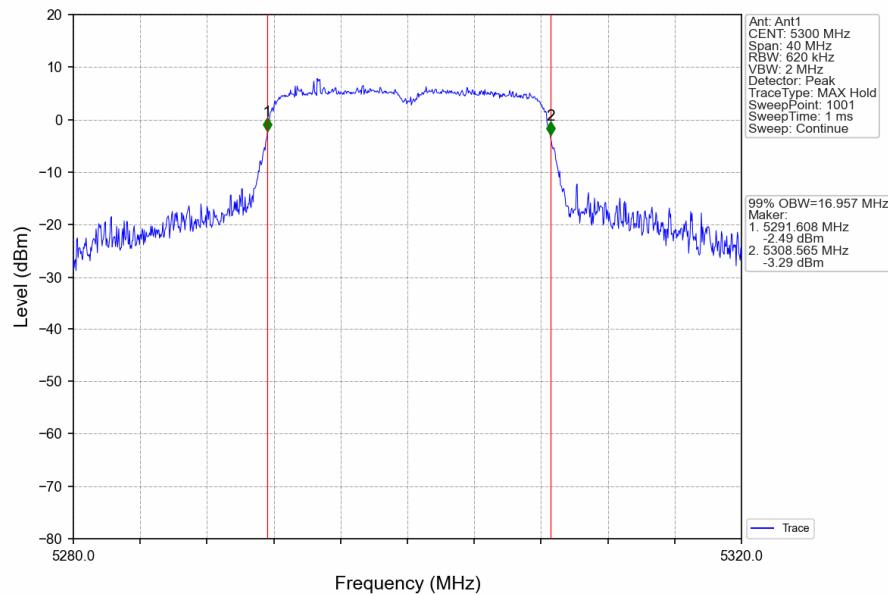
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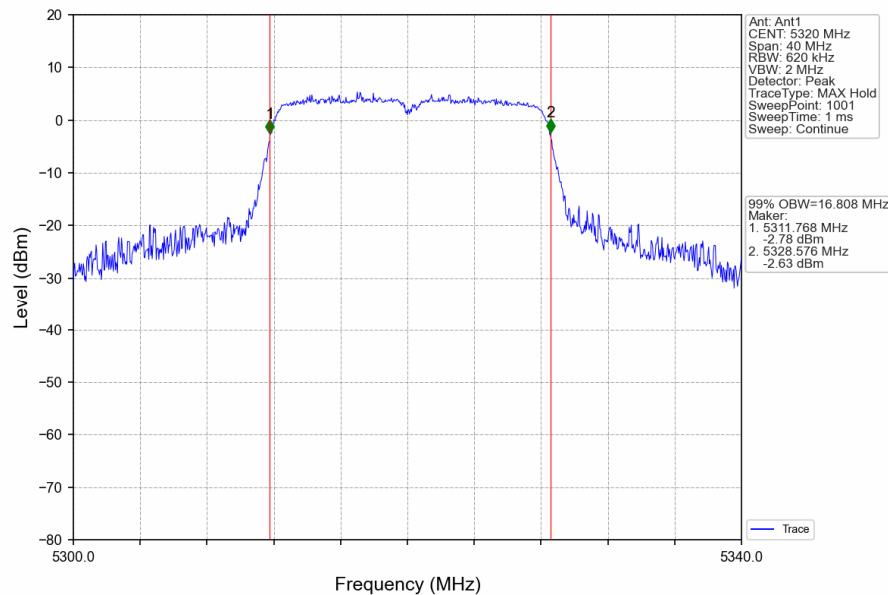


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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV

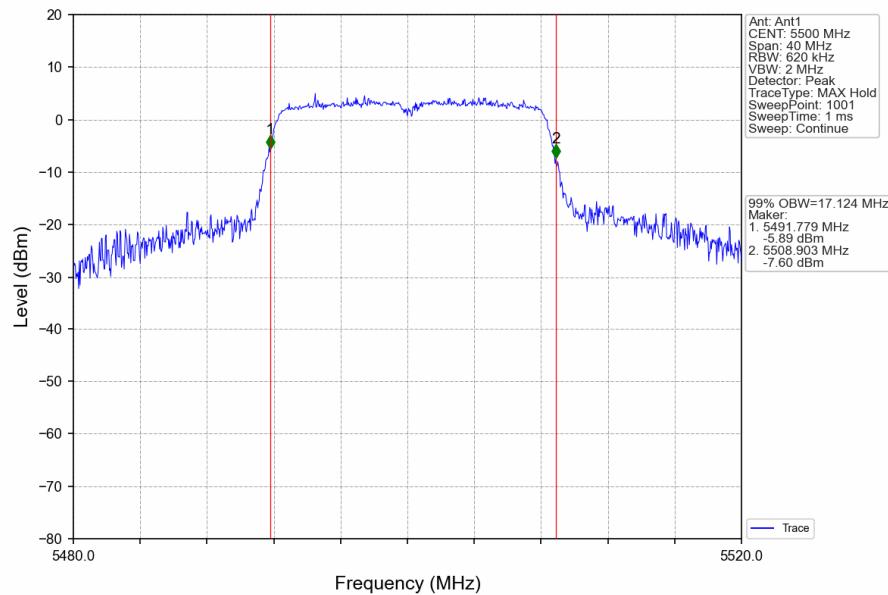
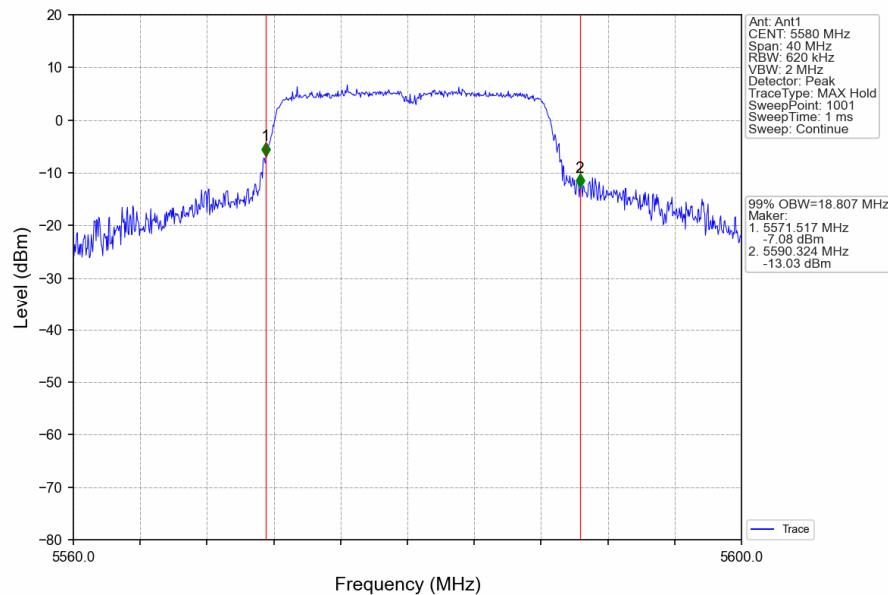


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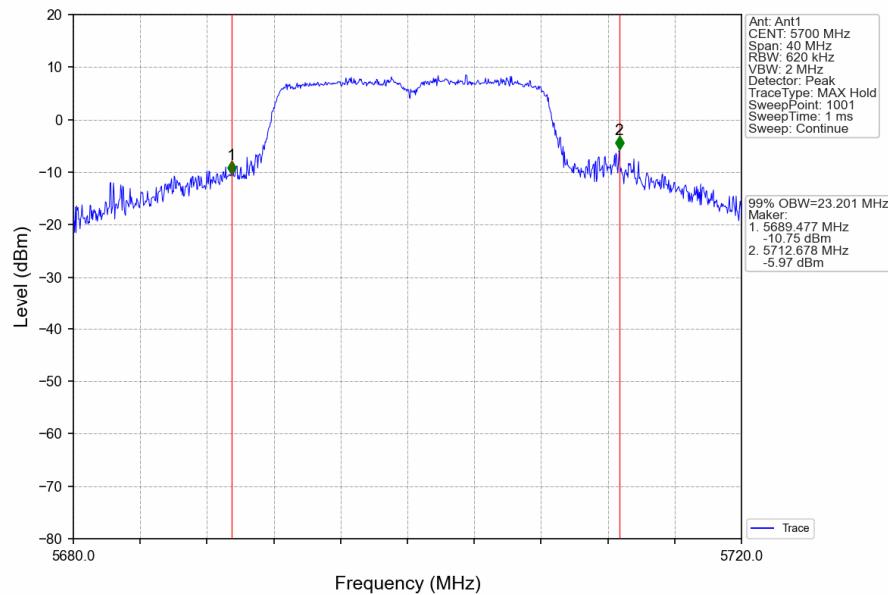
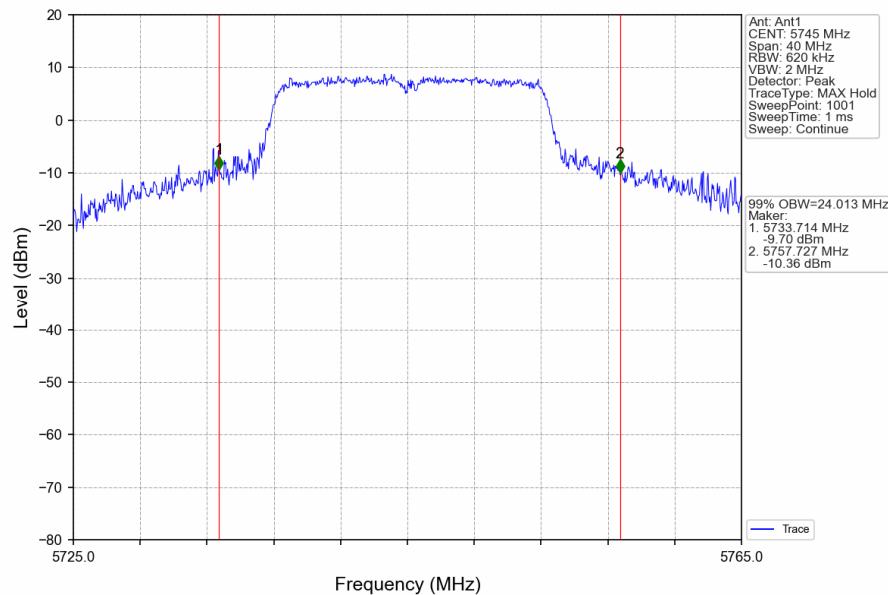
802.11a_LCH_5500MHz_Ant1_NTNV**802.11a_MCH_5580MHz_Ant1_NTNV**

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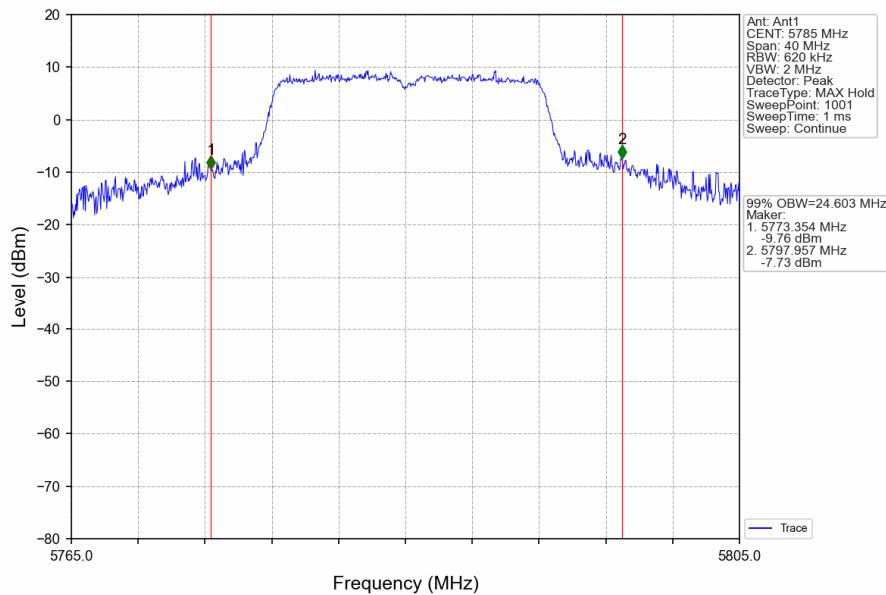
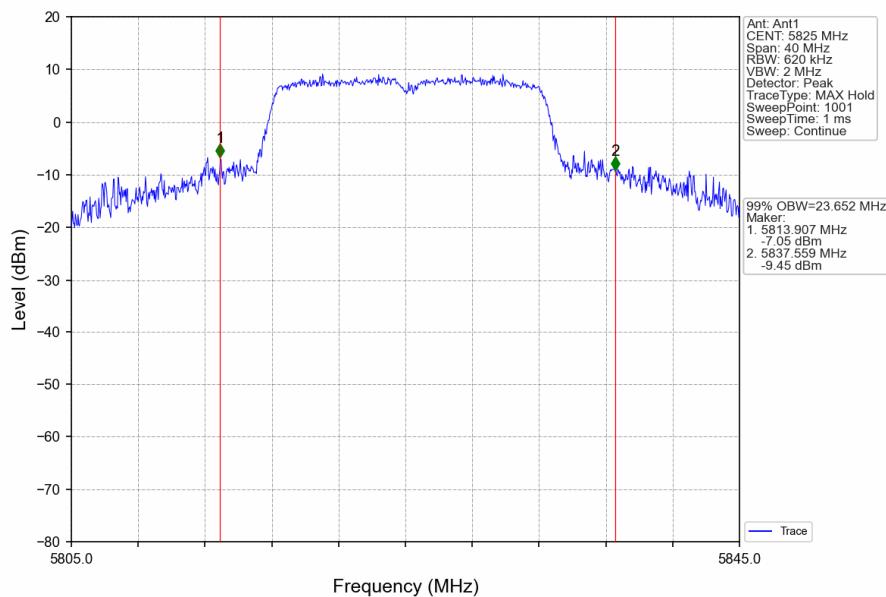
802.11a_HCH_5700MHz_Ant1_NTNV**802.11a_LCH_5745MHz_Ant1_NTNV**

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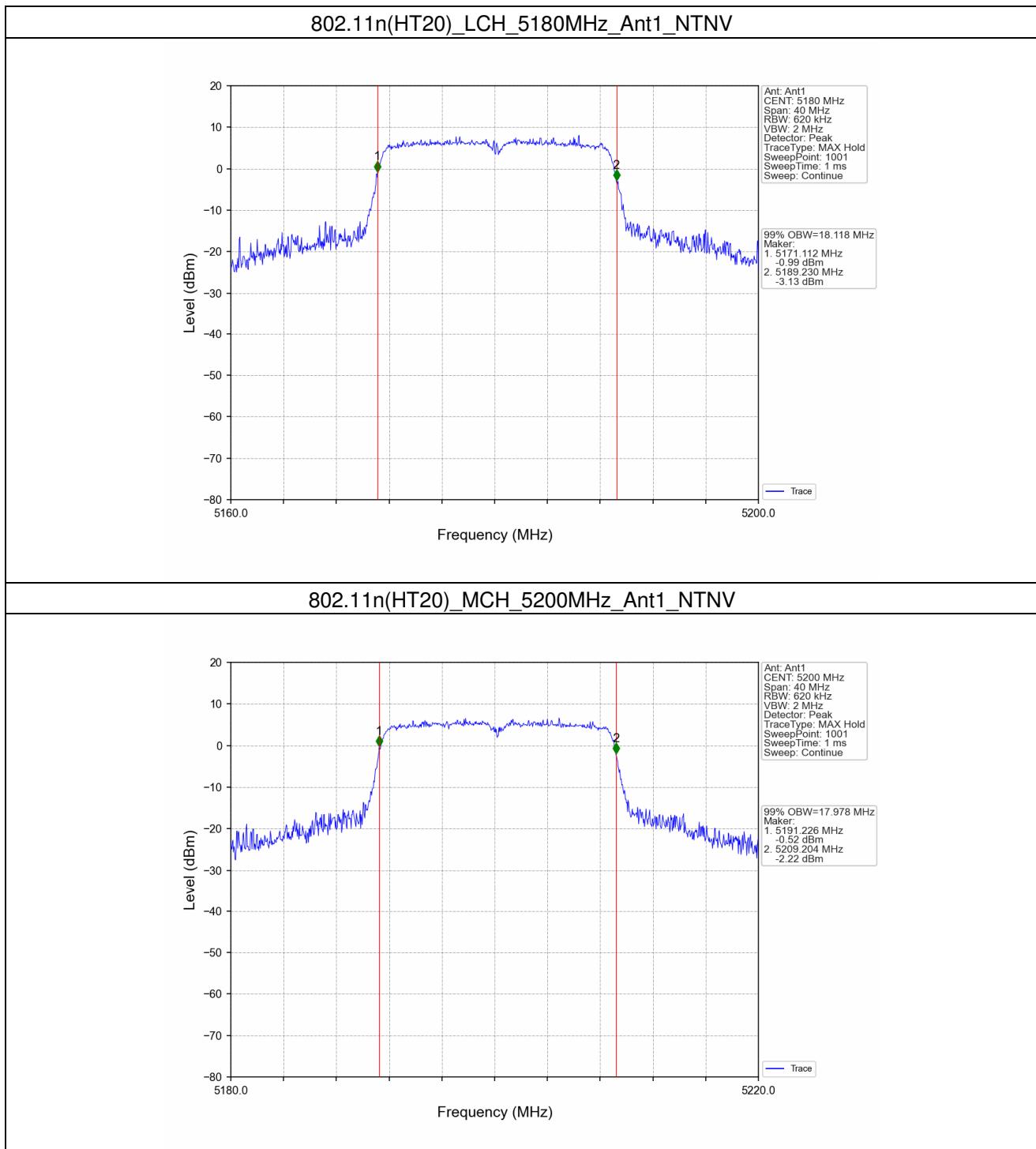
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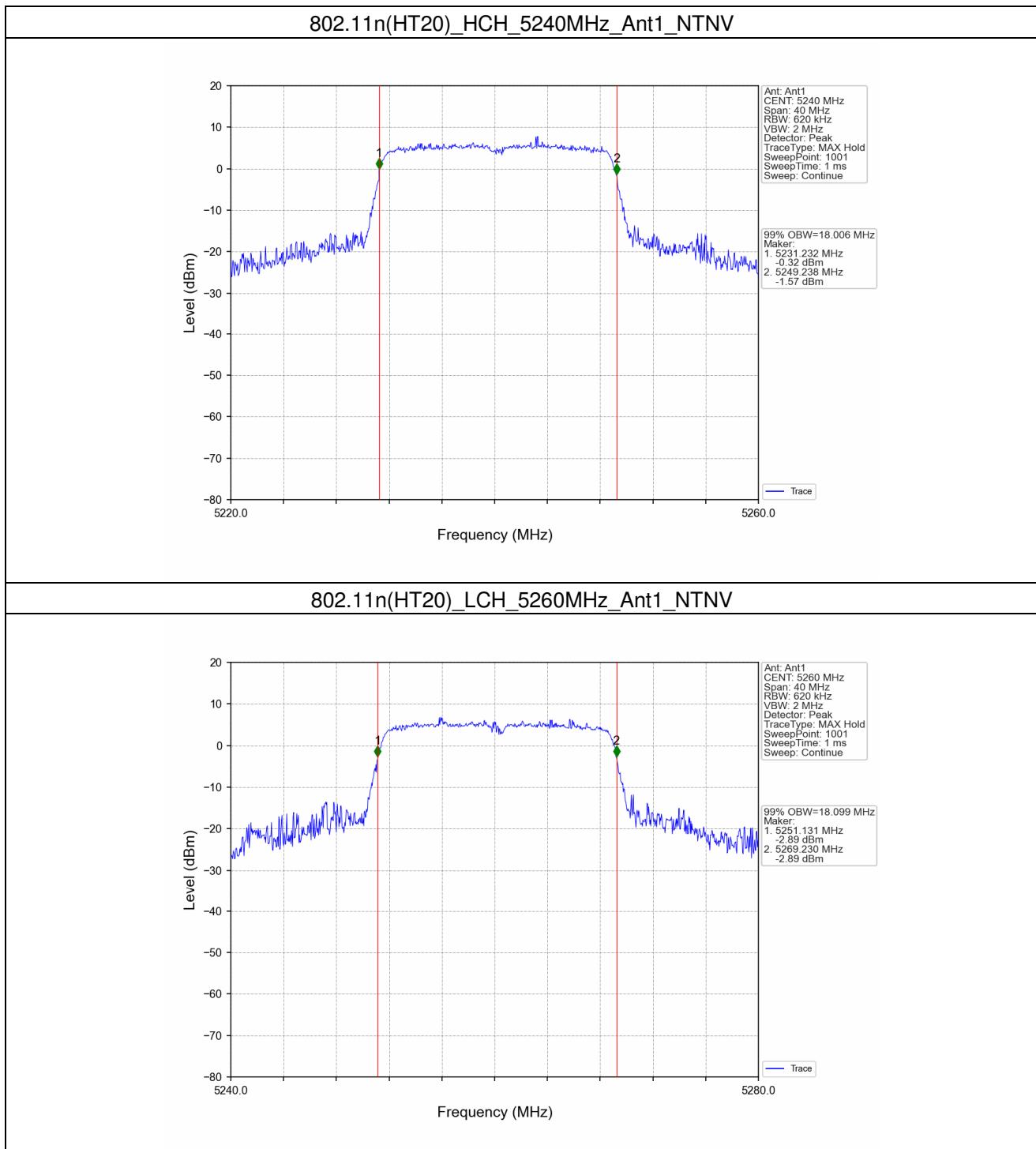


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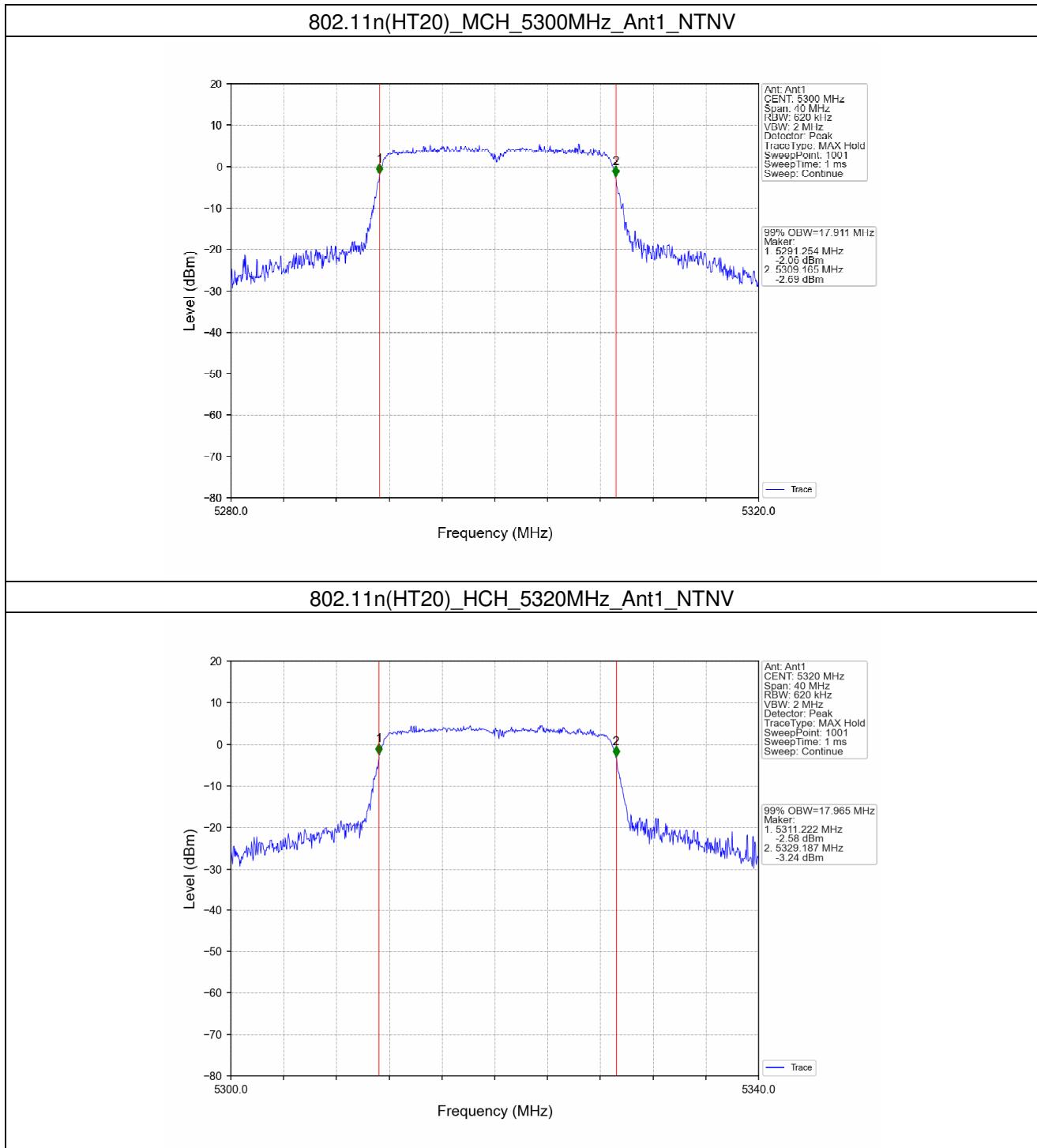
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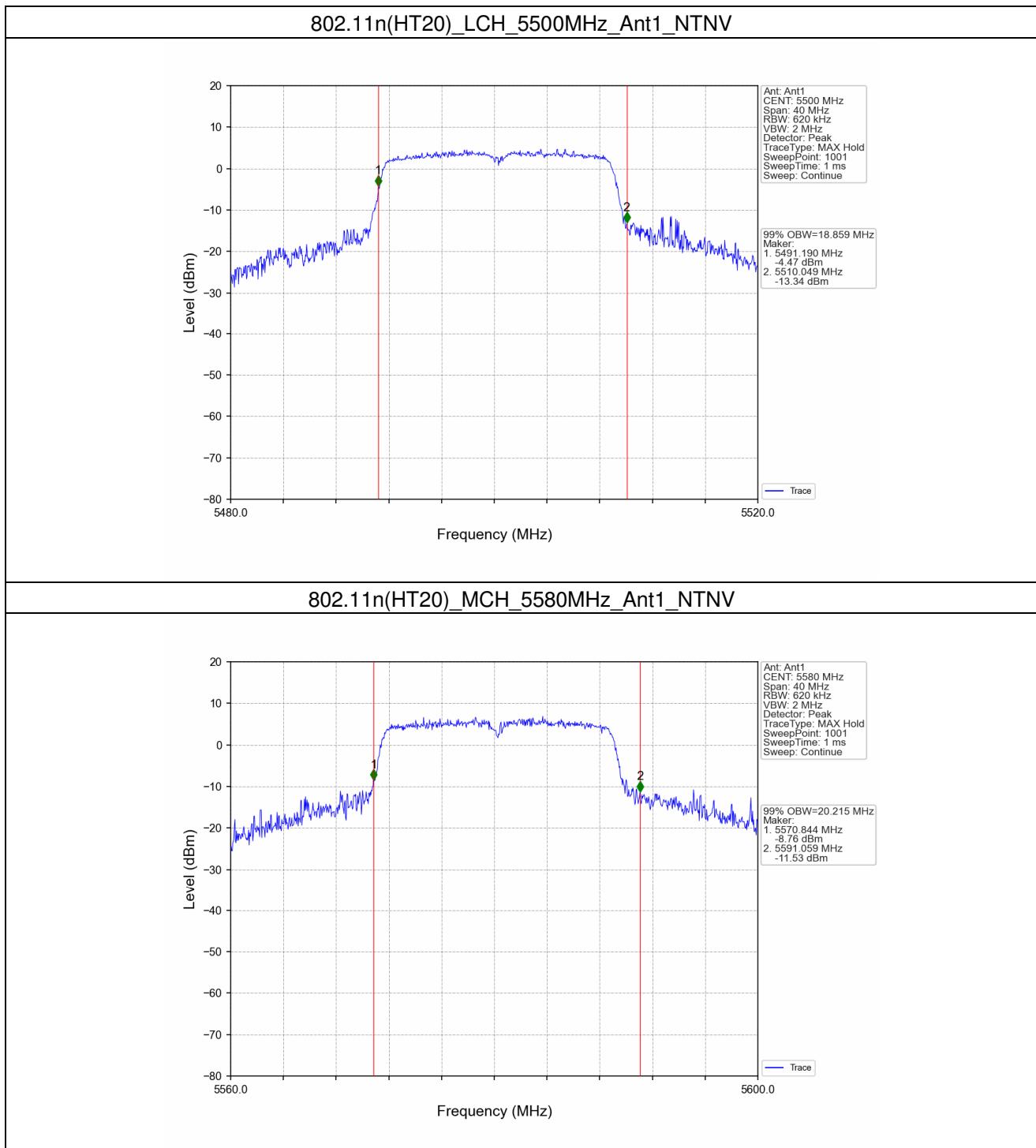


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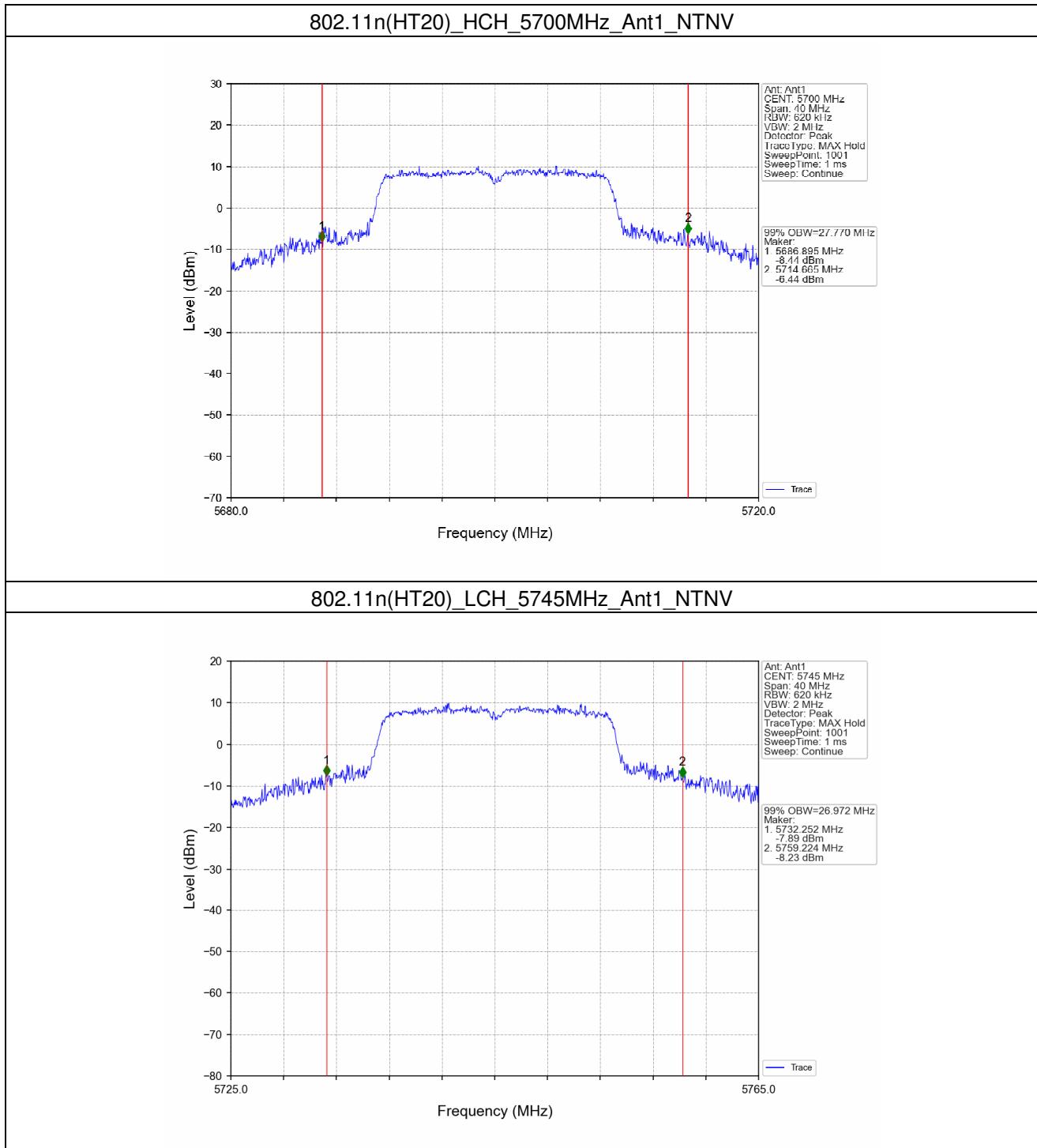


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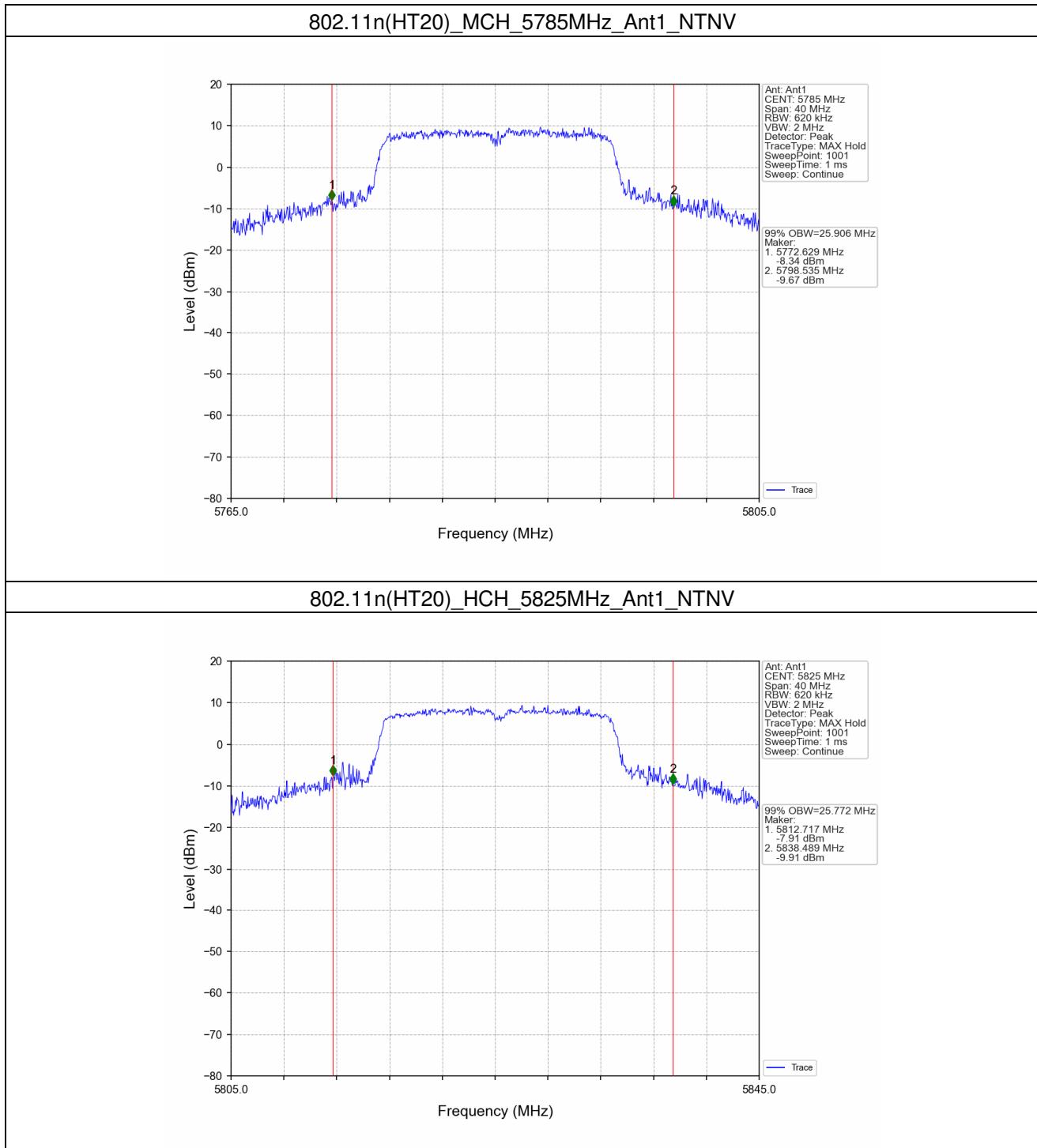


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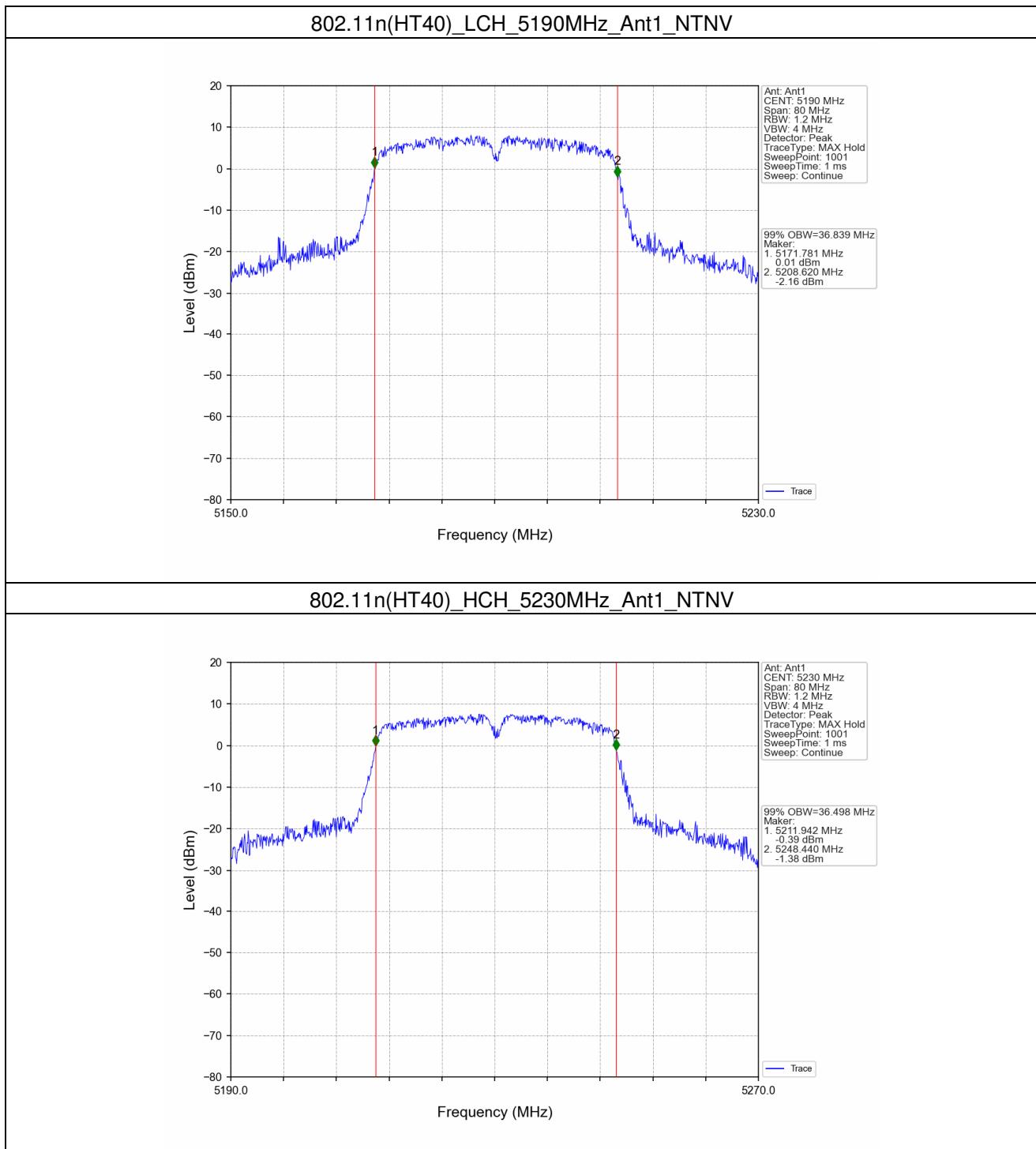


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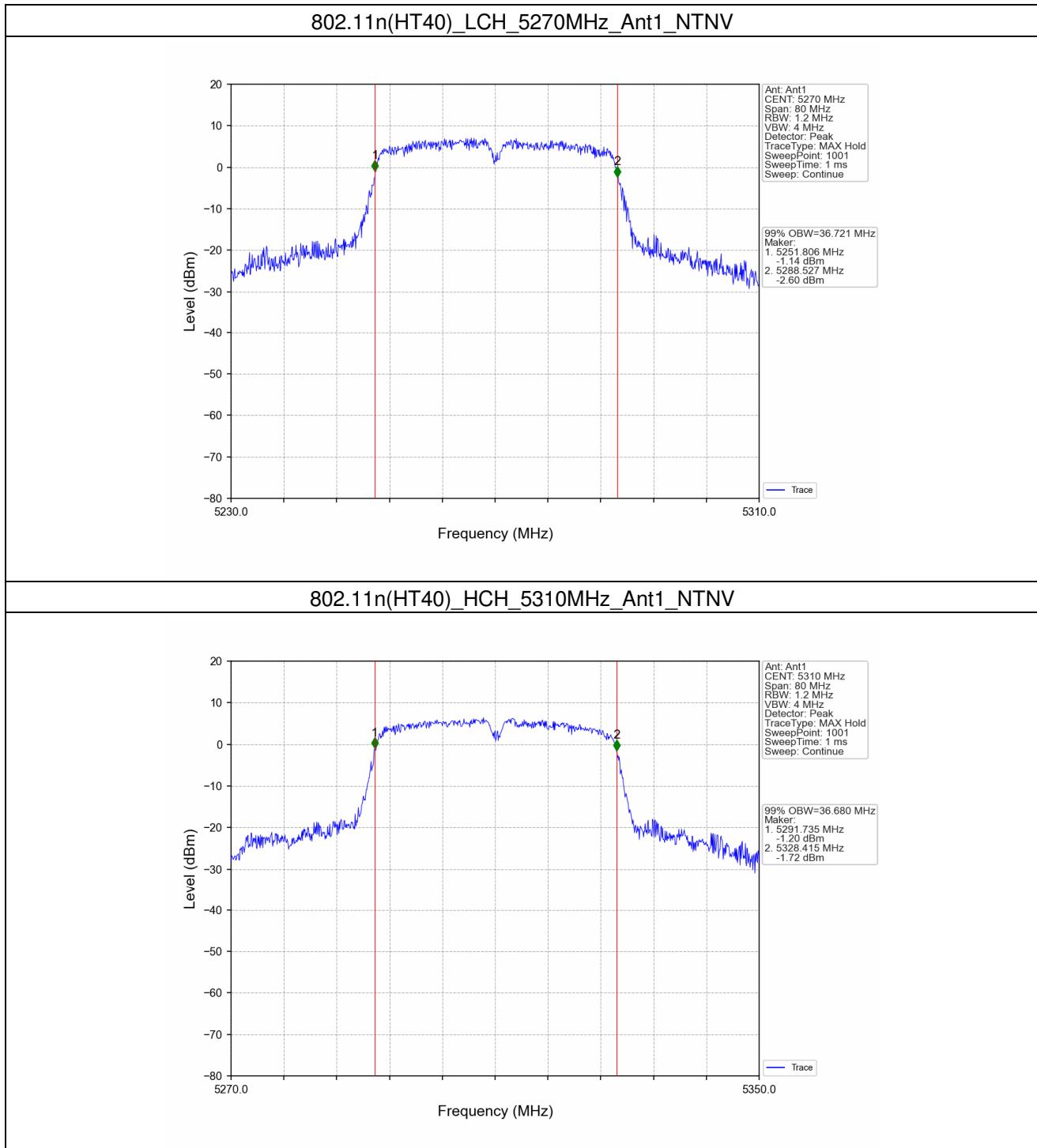
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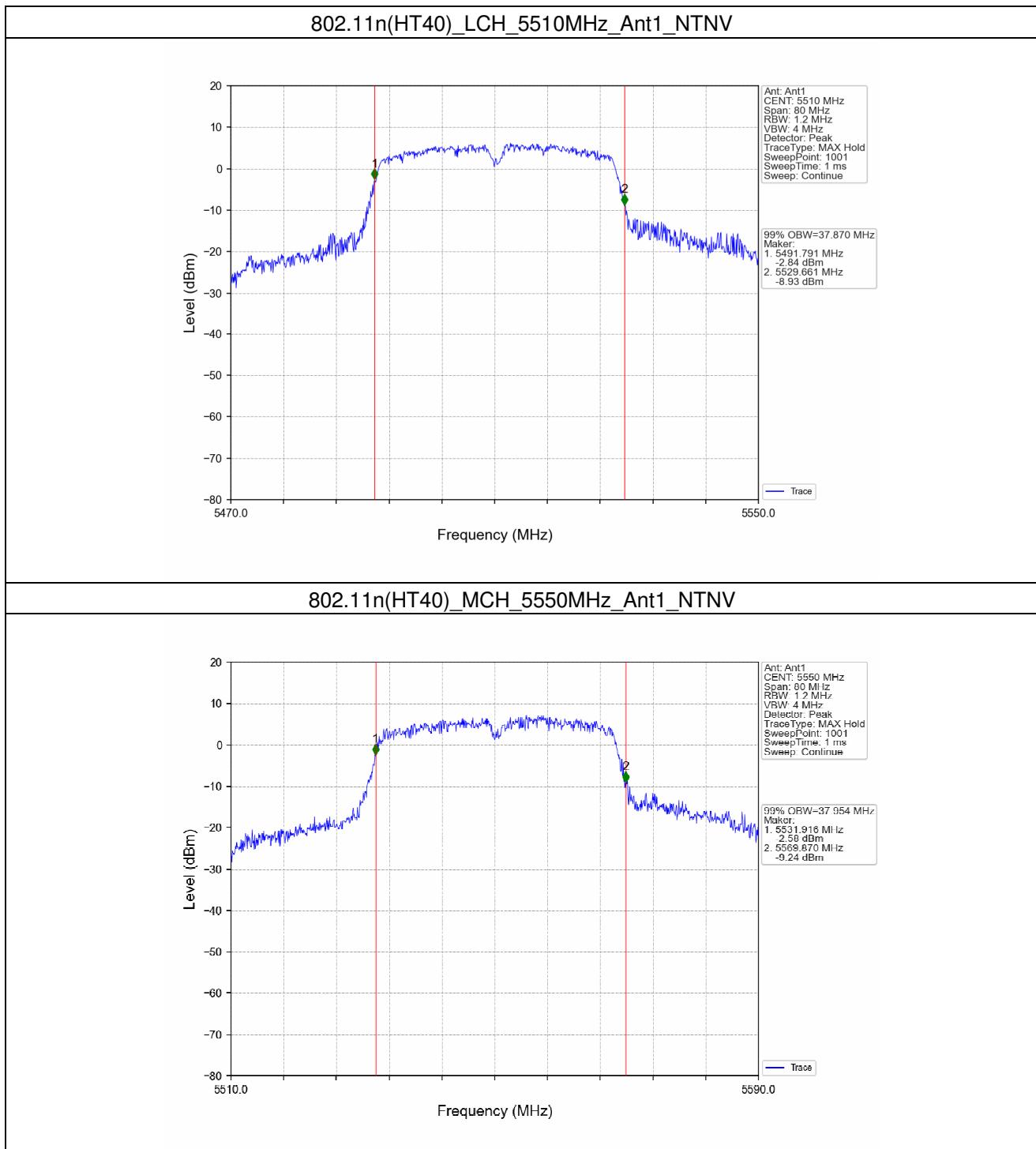


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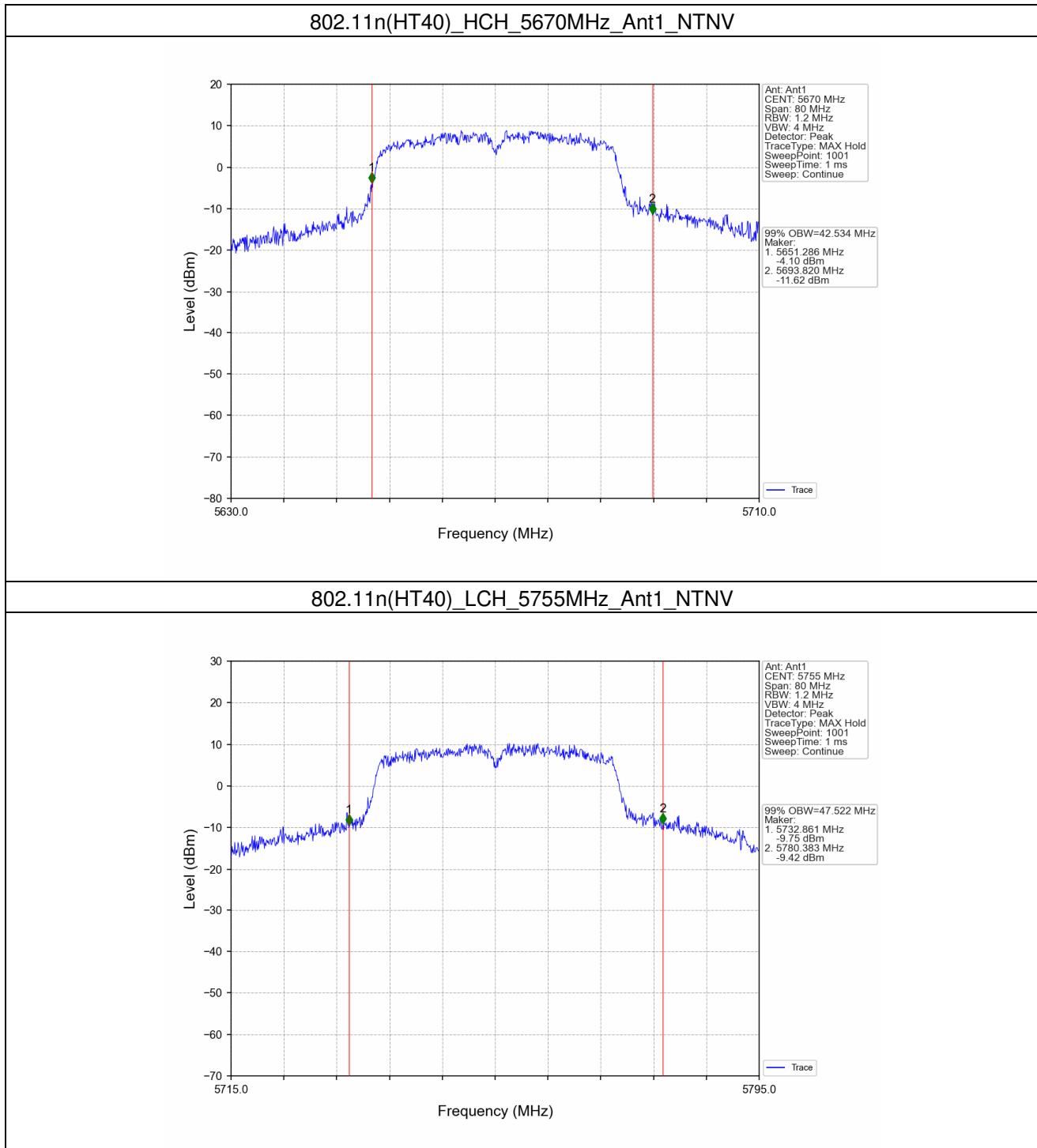


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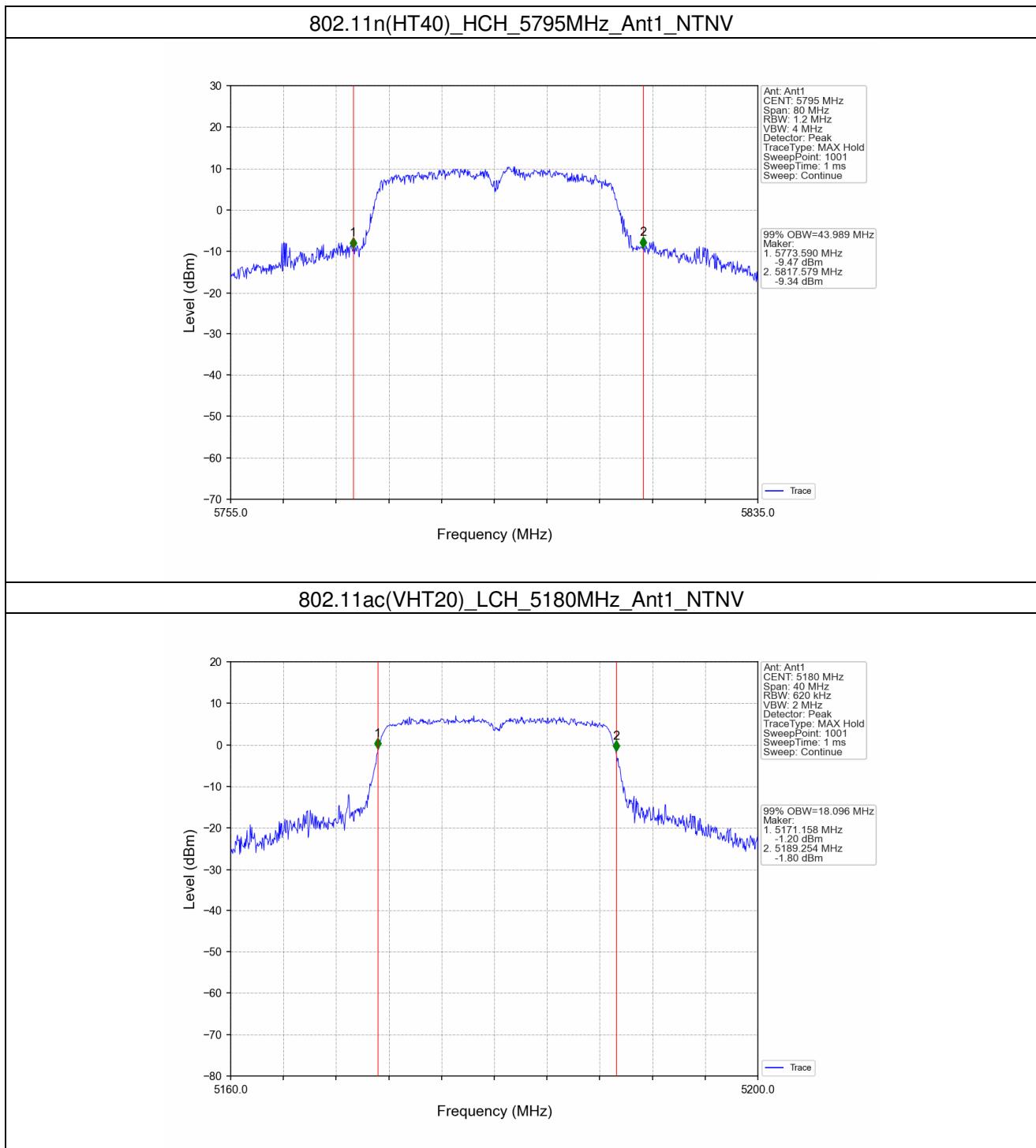


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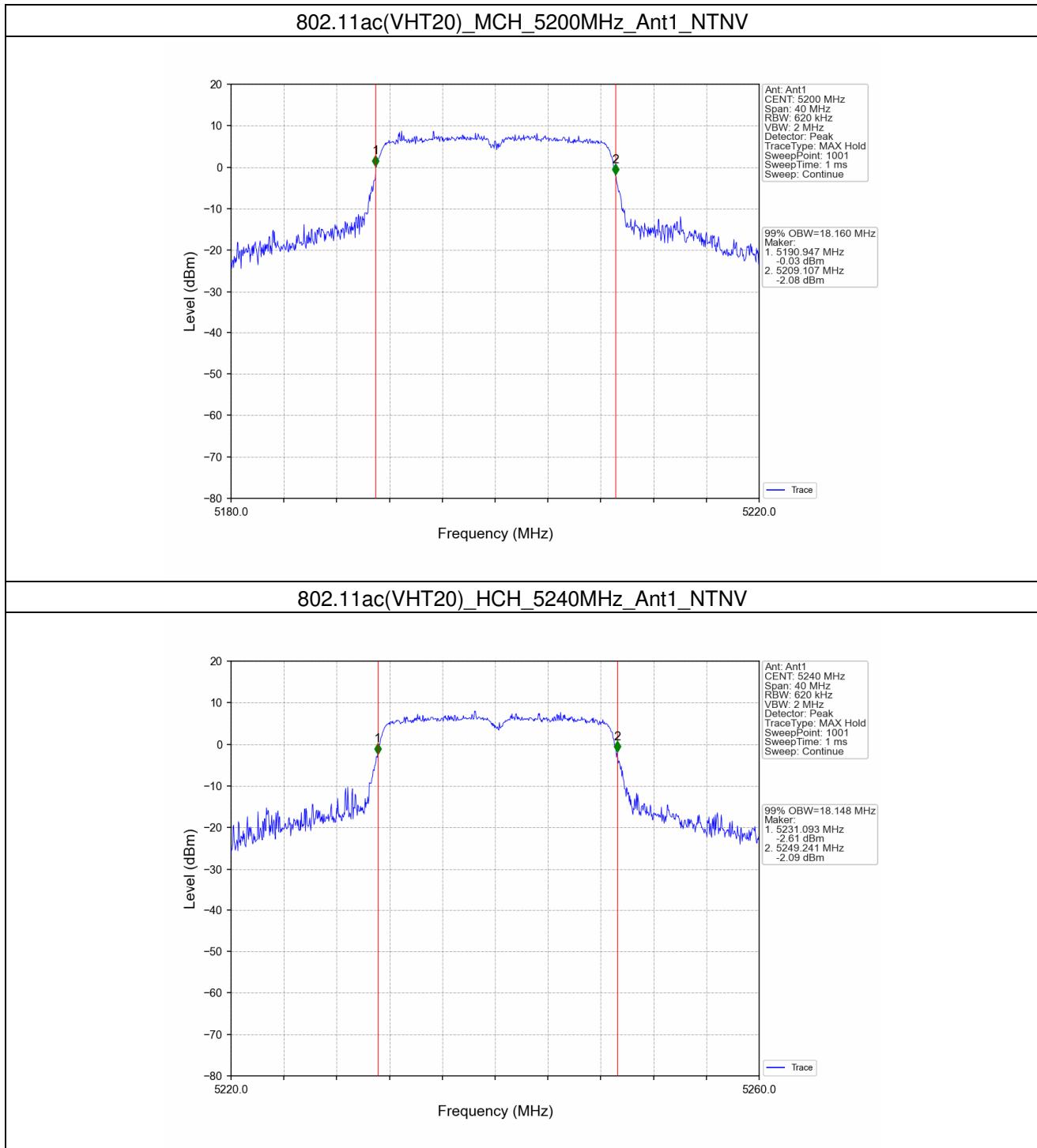


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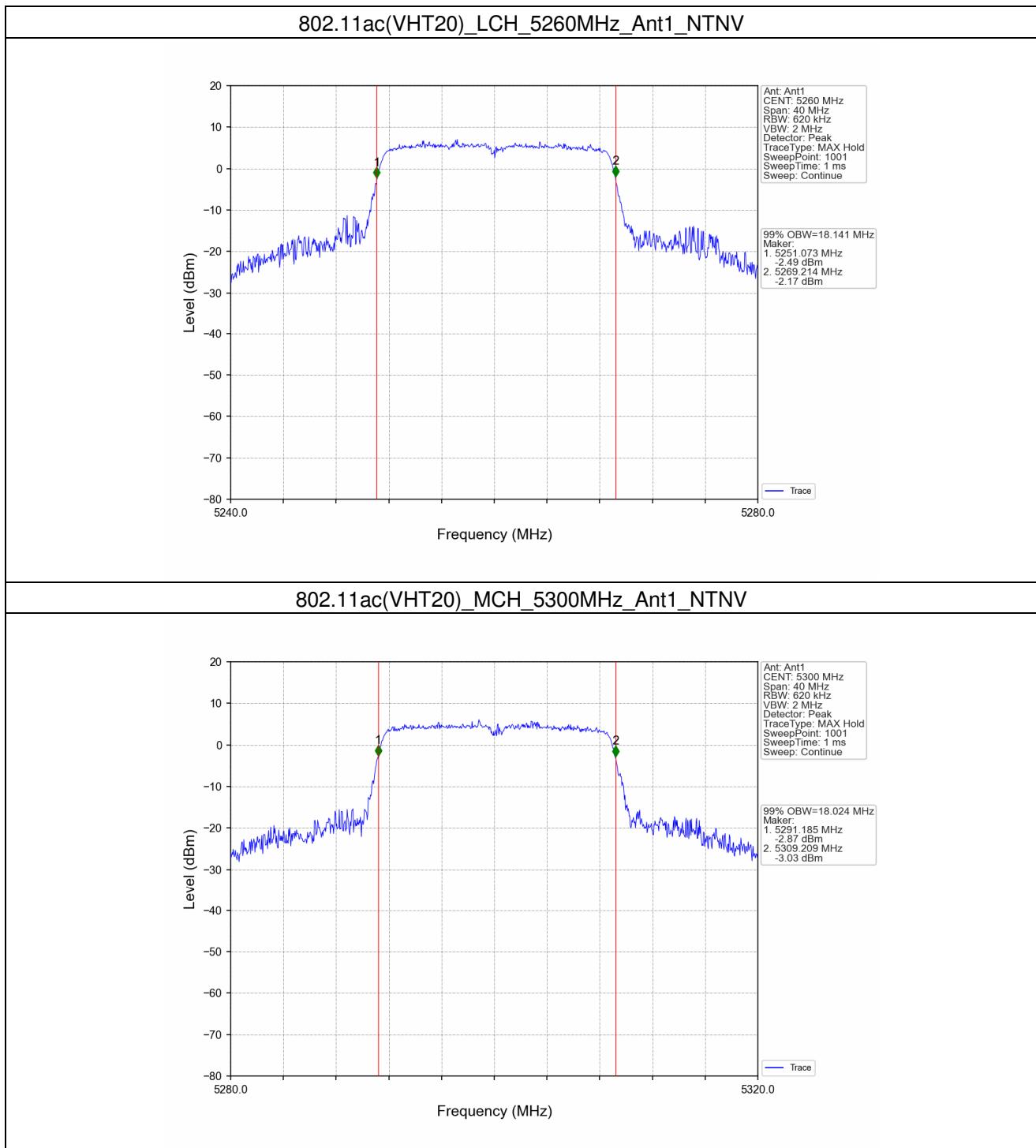
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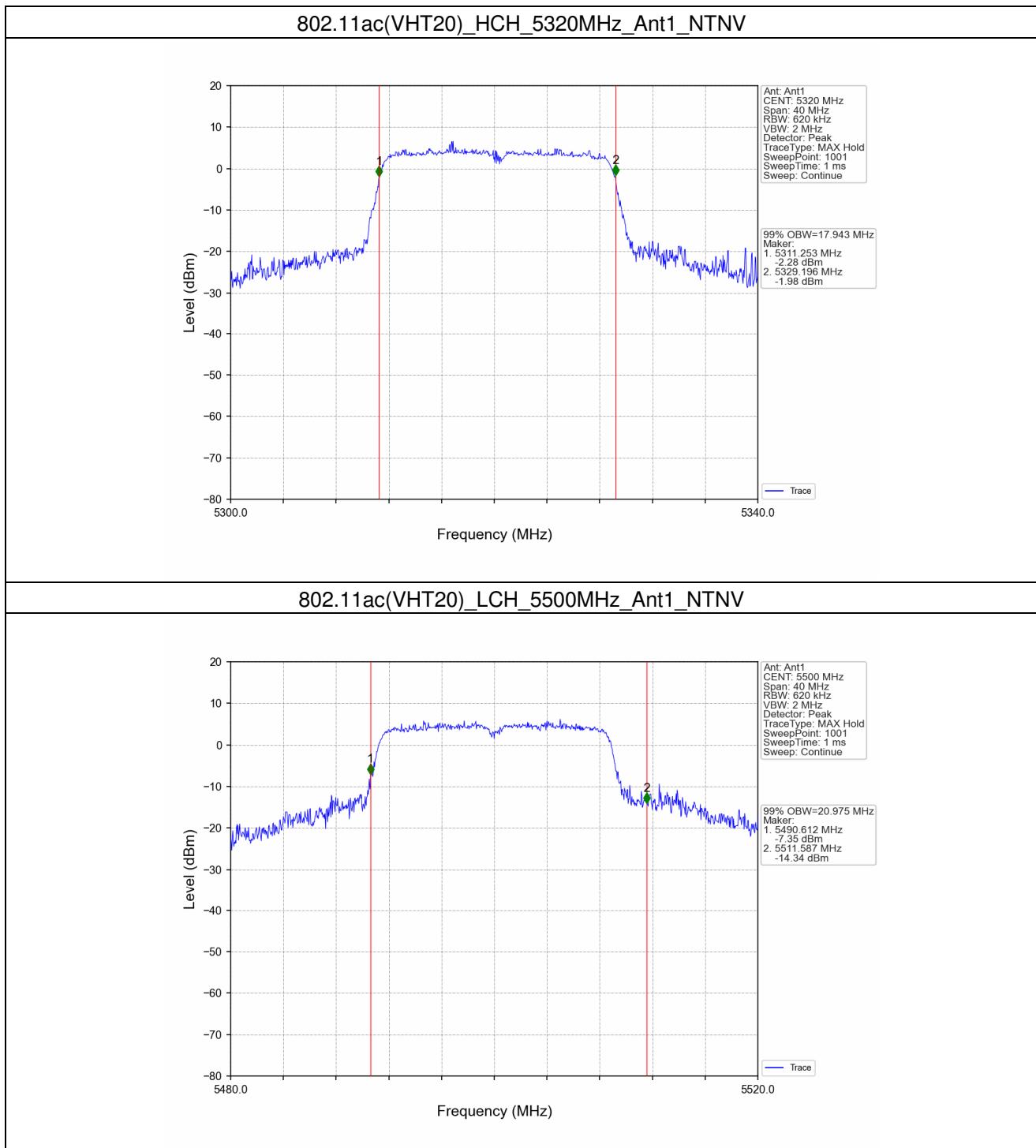
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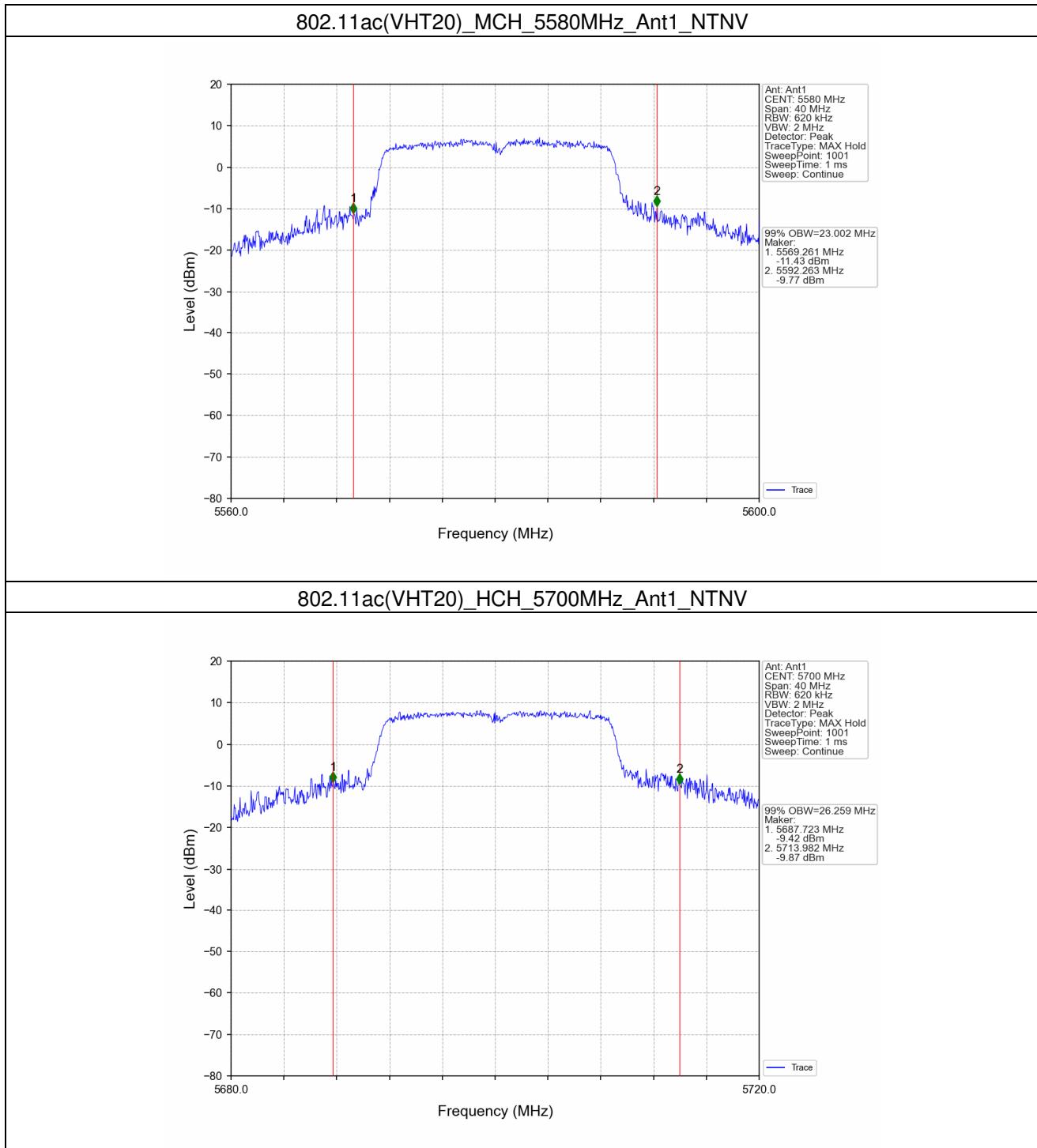


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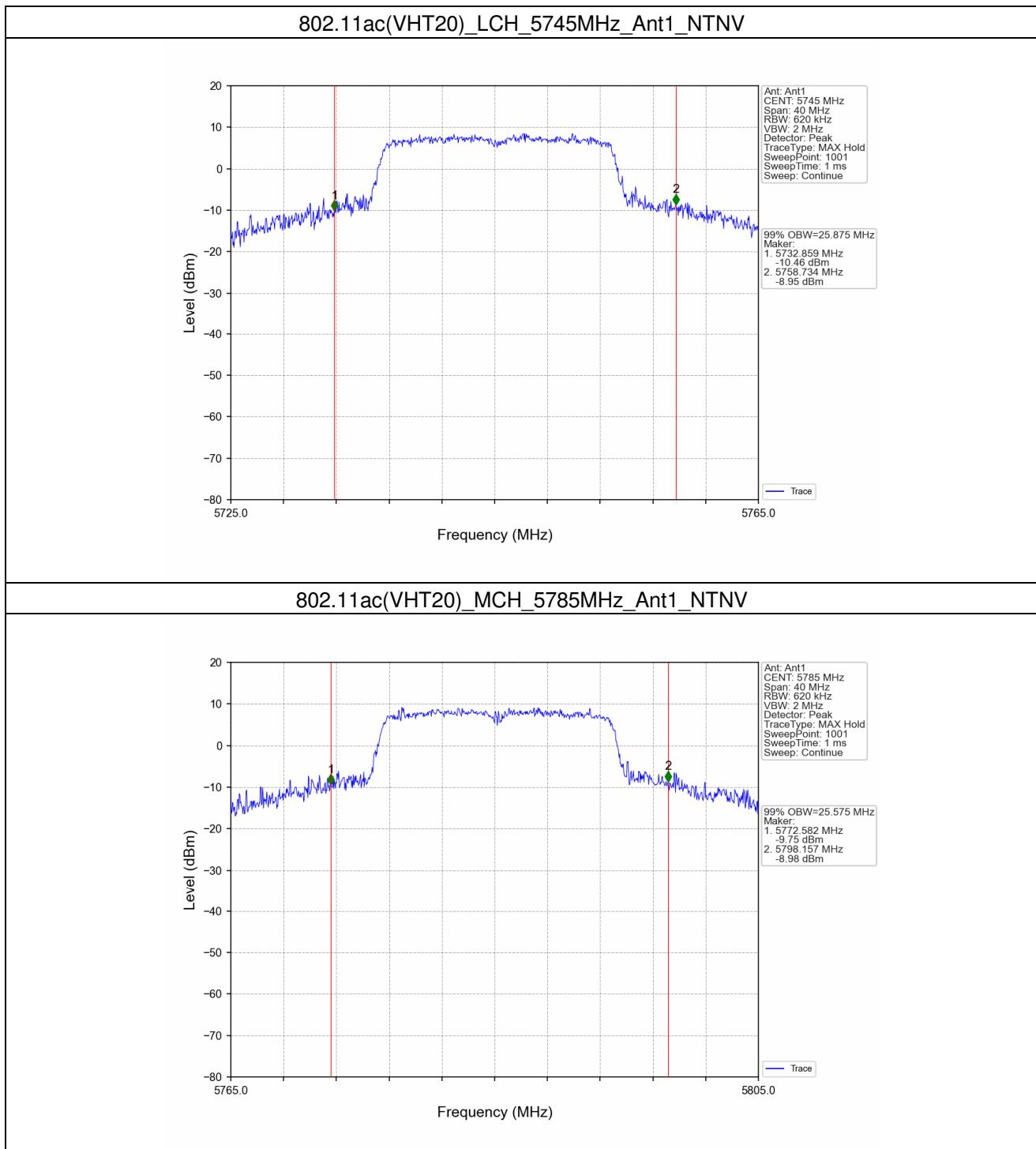


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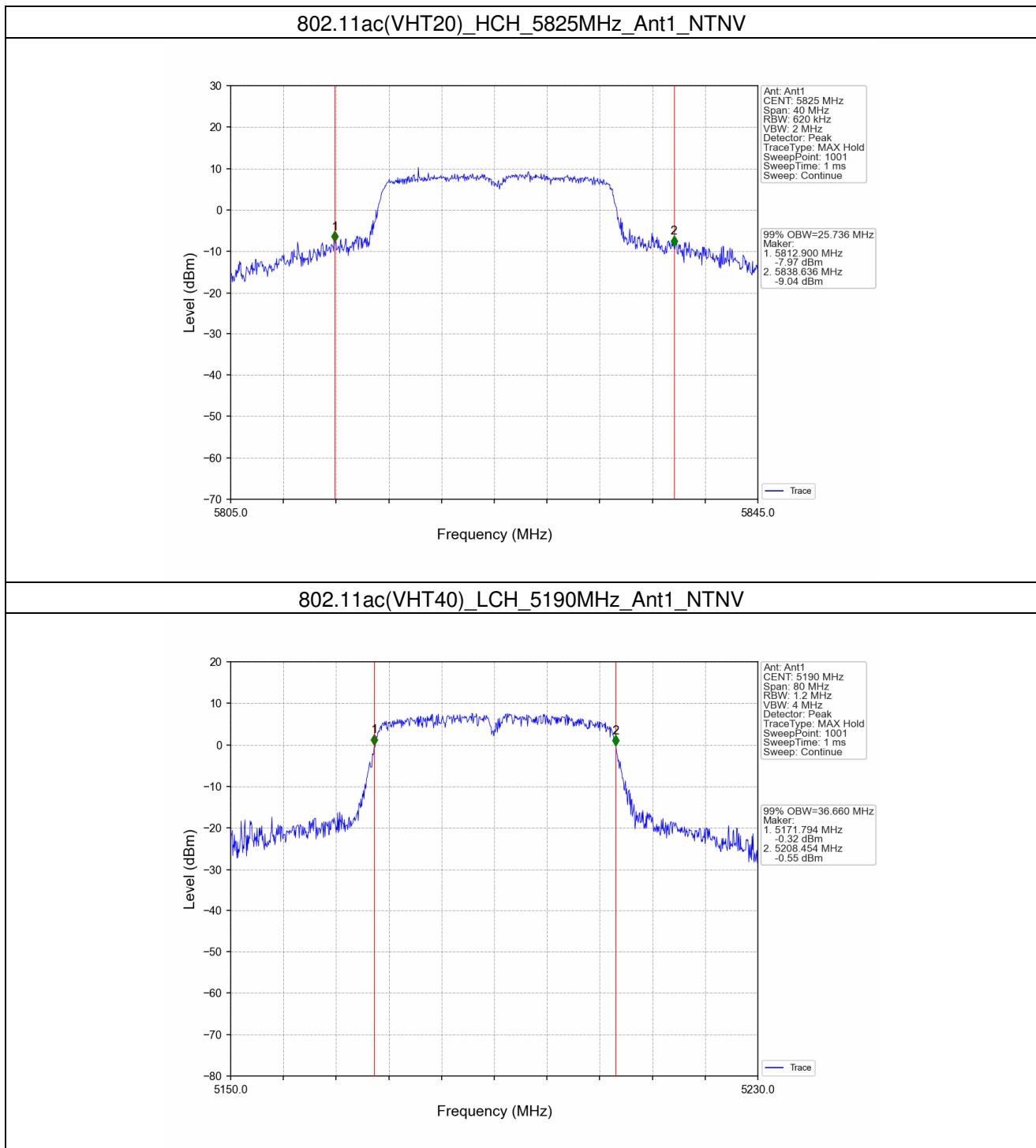
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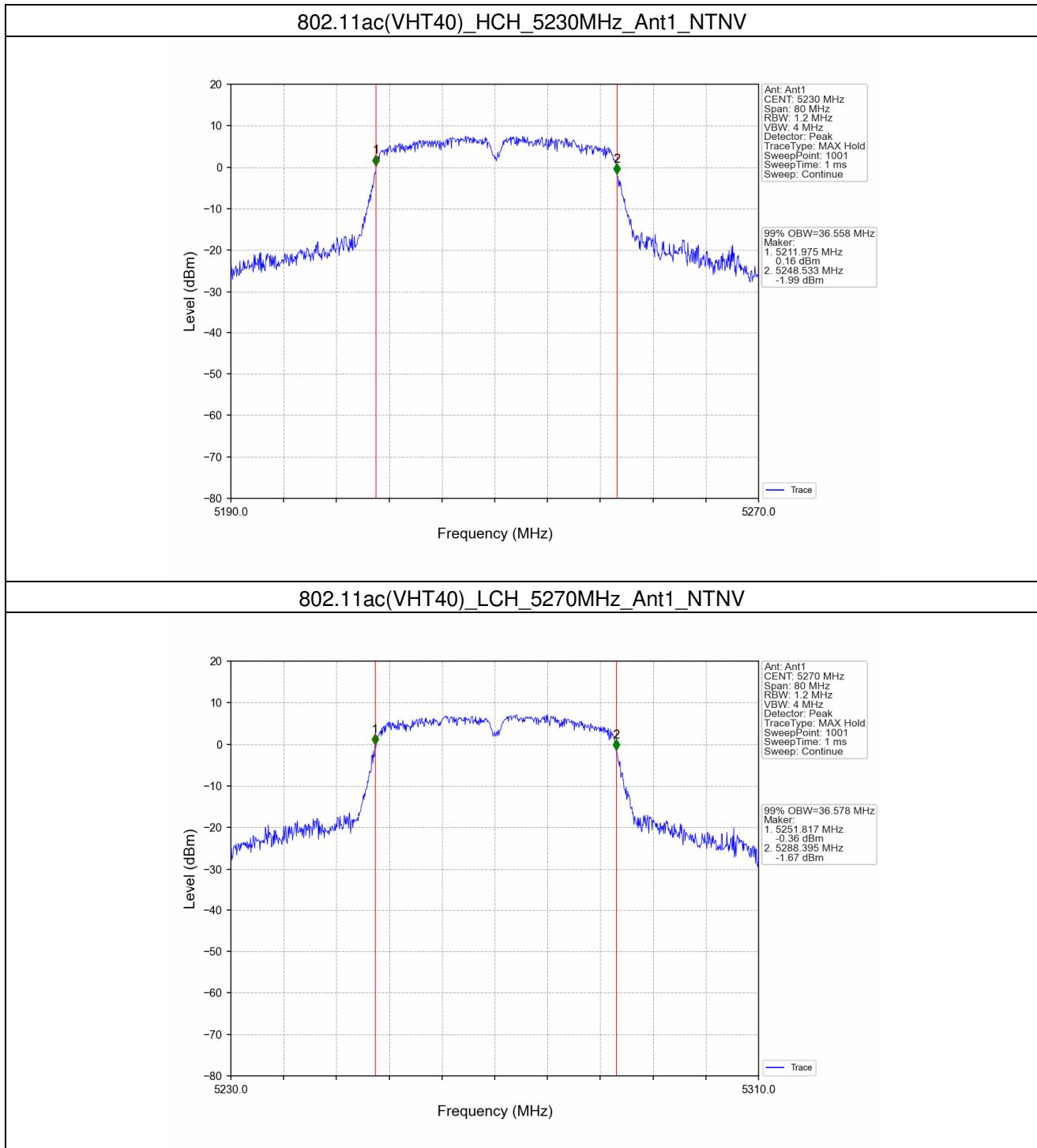


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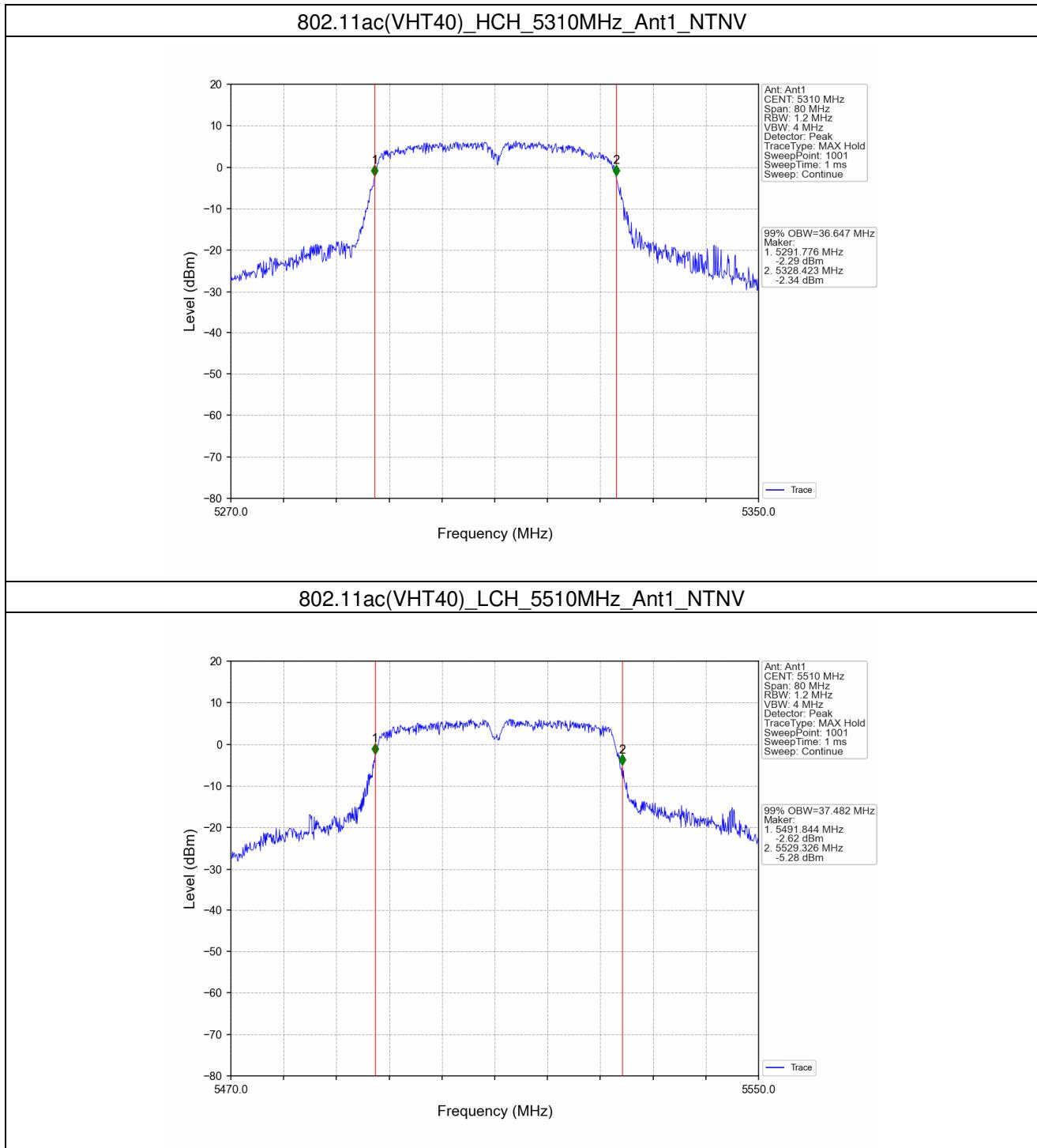
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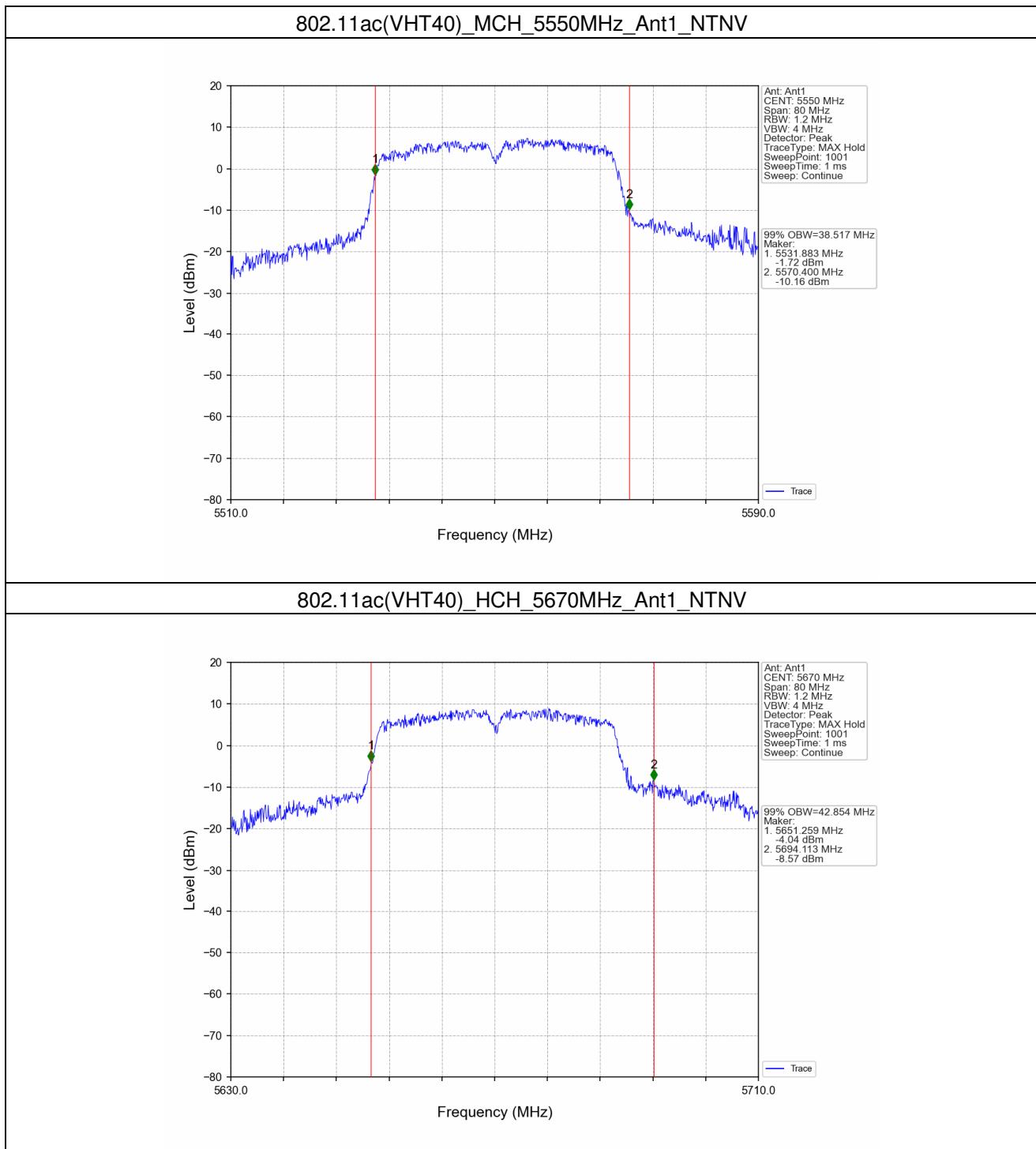


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