Appendix B for KSCR220100002802AT-FCC-5G Wifi-RTL8812CU

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.920	2.125	90.35	0.44	4.87
		5200	1.919	2.151	89.21	0.50	5.59
		5240	1.920	2.151	89.26	0.49	5.56
		5745	1.920	2.151	89.26	0.49	5.98
		5785	1.919	2.132	90.01	0.46	4.76
		5825	1.920	2.141	89.68	0.47	5.13
802.11n (HT20)	MIMO	5180	1.920	4.471	42.94	3.67	51.46
		5200	1.920	4.606	41.68	3.80	53.16
		5240	1.920	2.142	89.64	0.48	5.58
		5745	1.920	4.818	39.85	4.00	55.41
		5785	1.921	4.078	47.11	3.27	47.73
		5825	1.920	4.543	42.26	3.74	52.99
802.11n (HT40)	MIMO	5190	0.944	1.148	82.23	0.85	7.80
		5230	0.944	1.176	80.27	0.95	10.45
		5755	0.945	1.167	80.98	0.92	9.82
		5795	0.944	1.175	80.34	0.95	8.90
802.11ac (VHT20)	MIMO	5180	1.920	2.142	89.64	0.48	5.58
		5200	1.919	2.150	89.26	0.49	5.56
		5240	1.920	2.151	89.26	0.49	4.31
		5745	1.920	3.690	52.03	2.84	41.96
		5785	1.920	4.143	46.34	3.34	48.50
		5825	1.920	2.142	89.64	0.48	5.61
802.11ac (VHT40)	MIMO	5190	0.944	1.174	80.41	0.95	8.89
		5230	0.944	1.175	80.34	0.95	9.66
		5755	0.944	1.166	80.96	0.92	8.28
		5795	0.944	1.166	80.96	0.92	9.02
802.11ac (VHT80)	MIMO	5210	1.919	2.132	90.01	0.46	4.38
		5775	1.920	2.151	89.26	0.49	5.94

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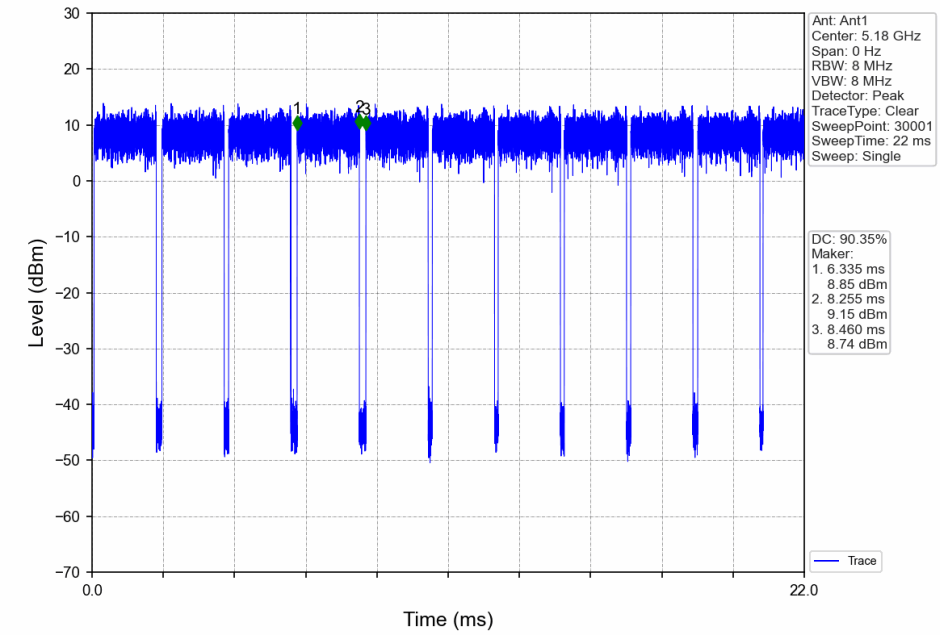
1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

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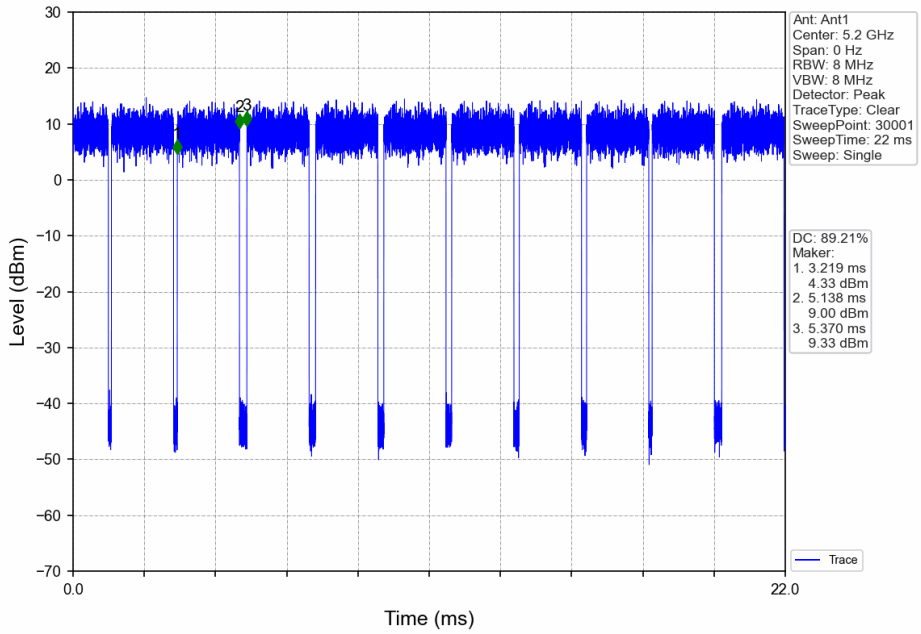

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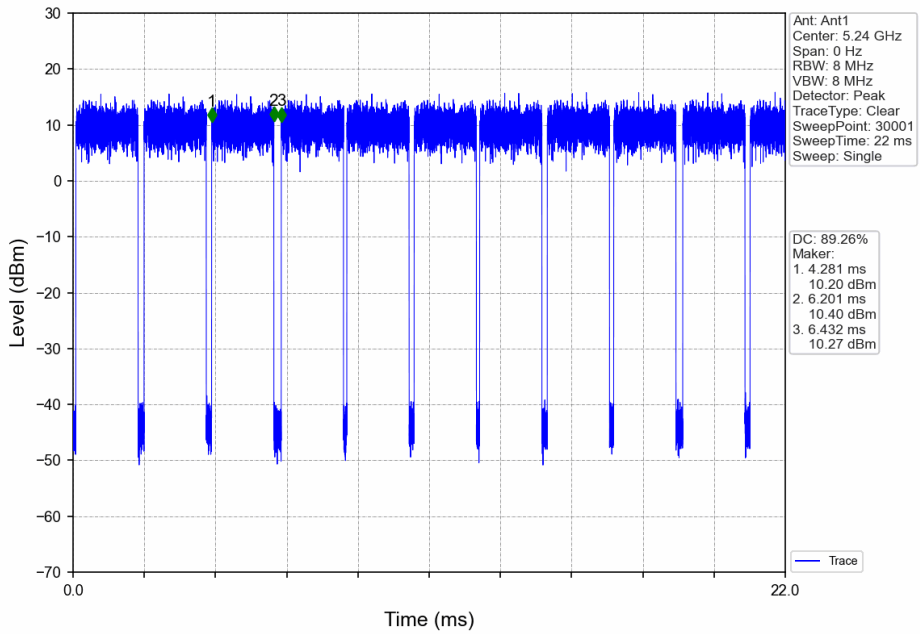
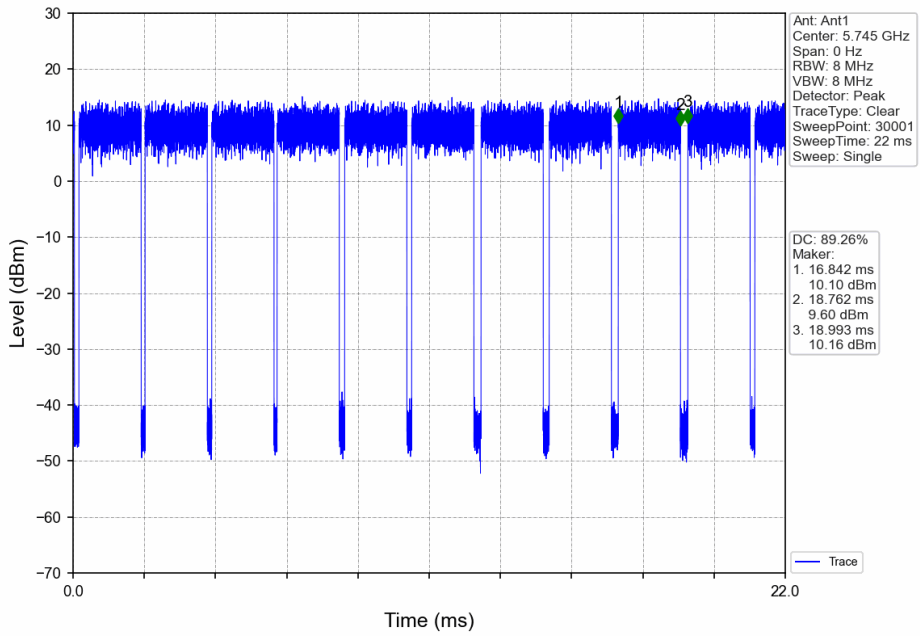
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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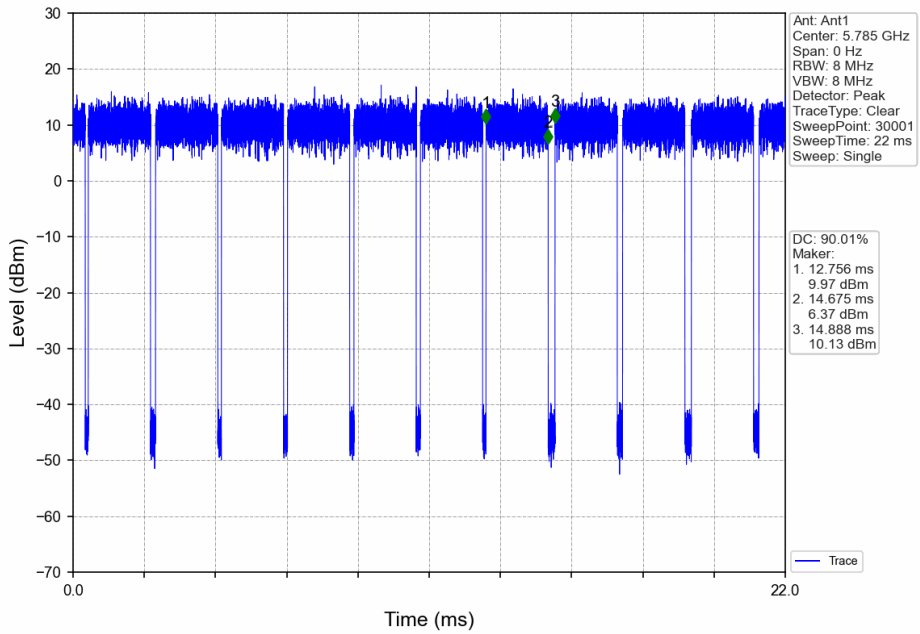
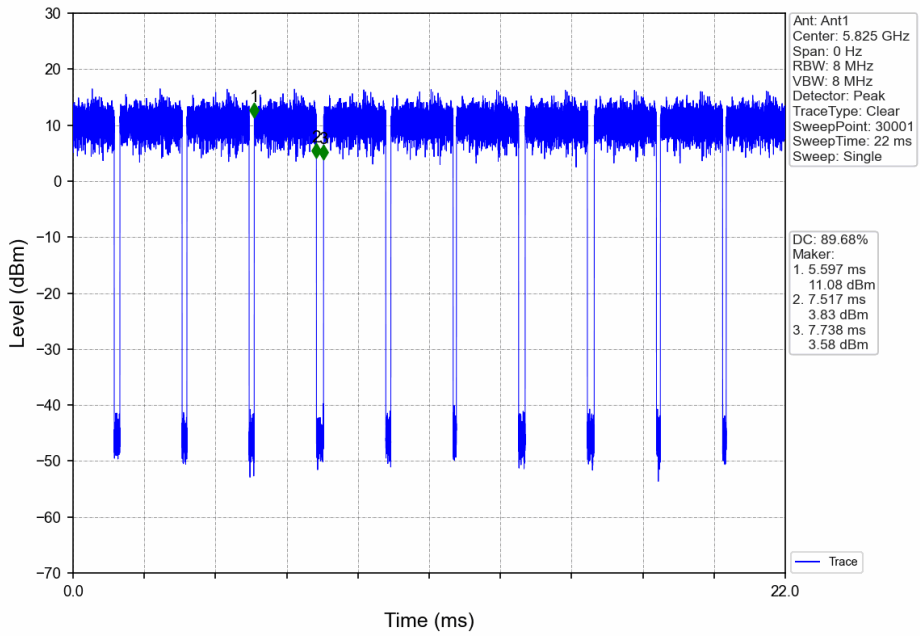
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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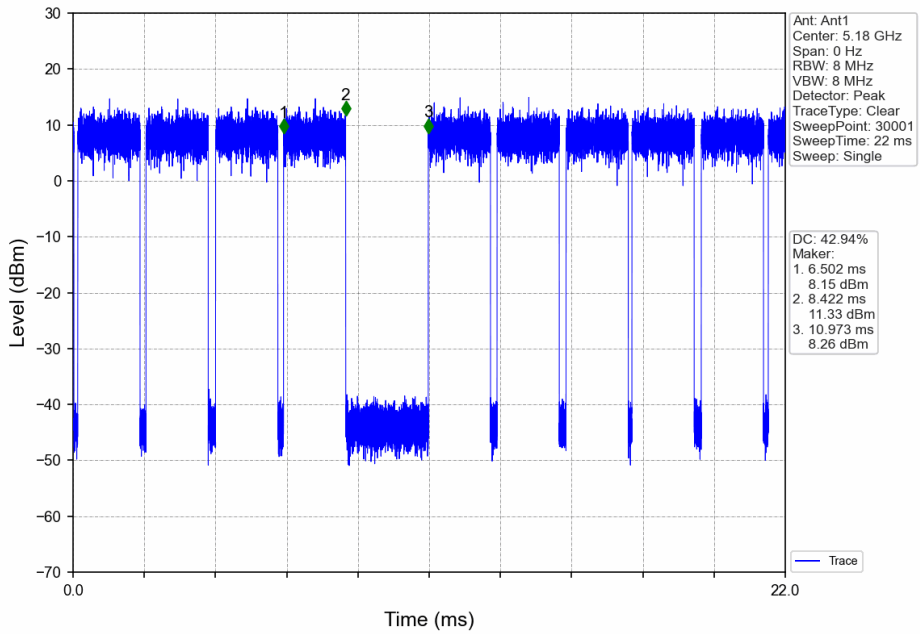
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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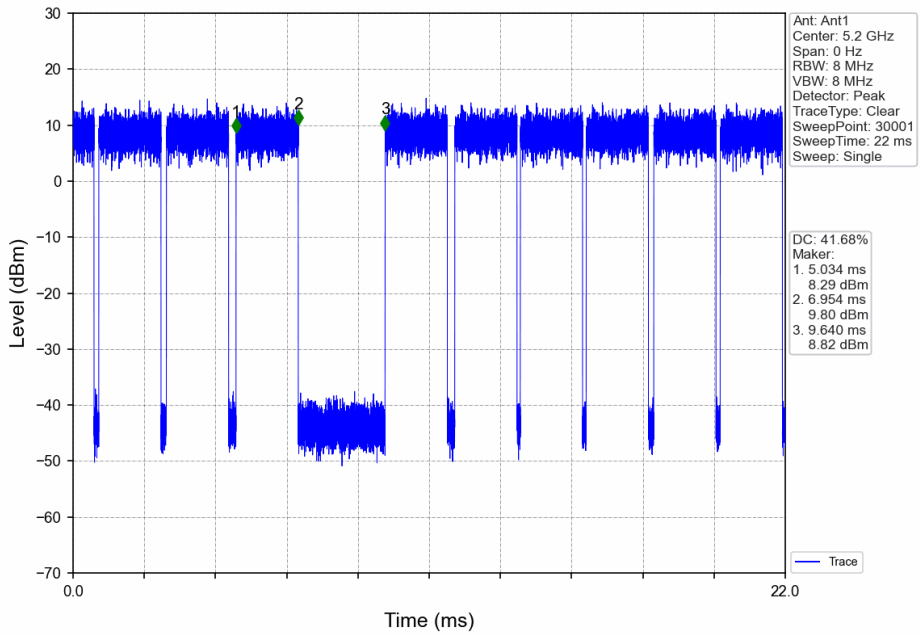

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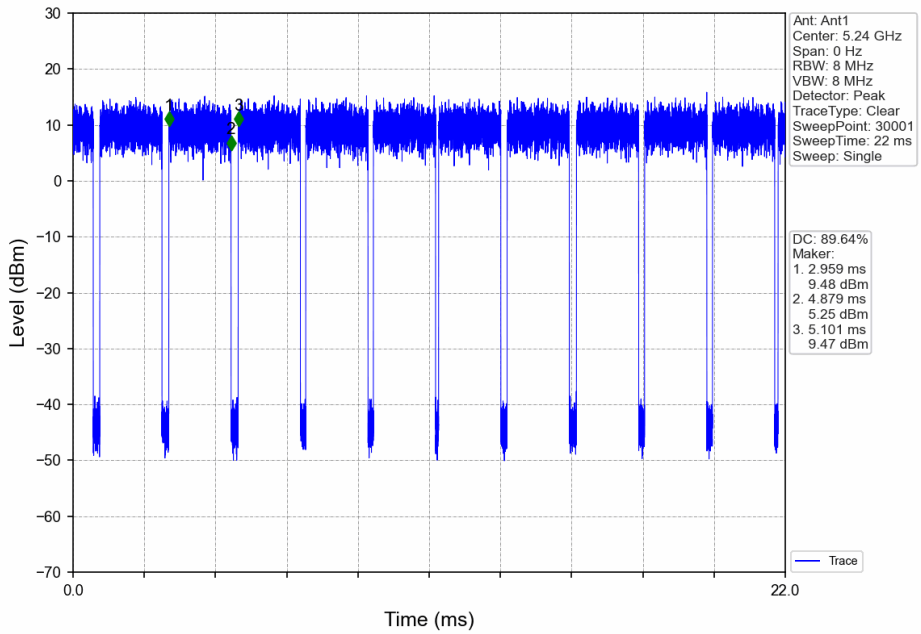

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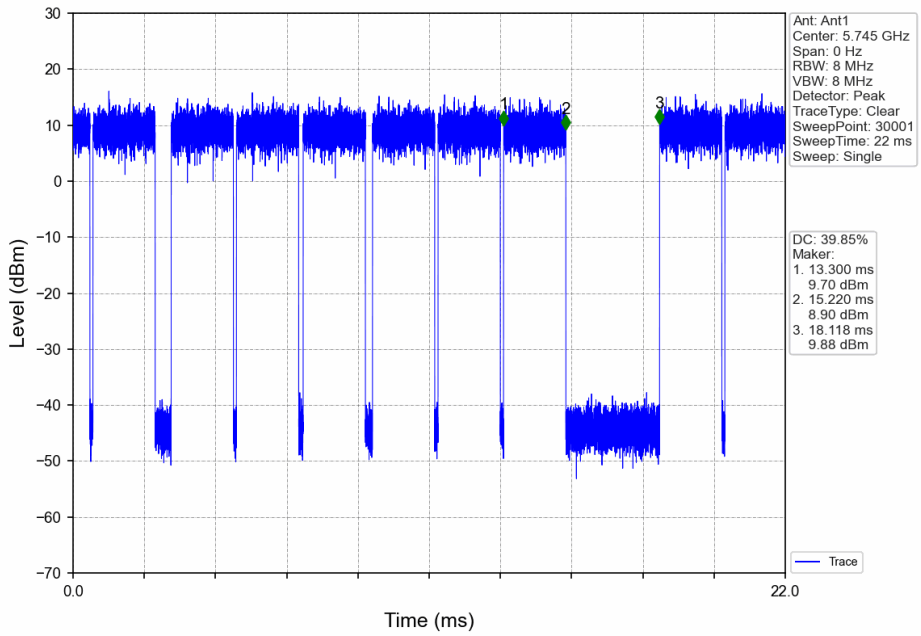

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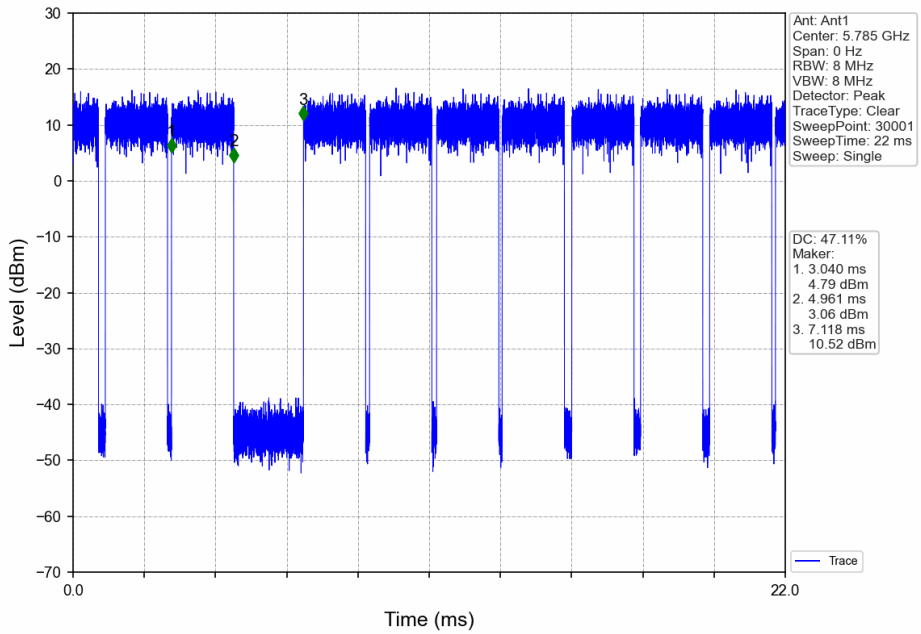
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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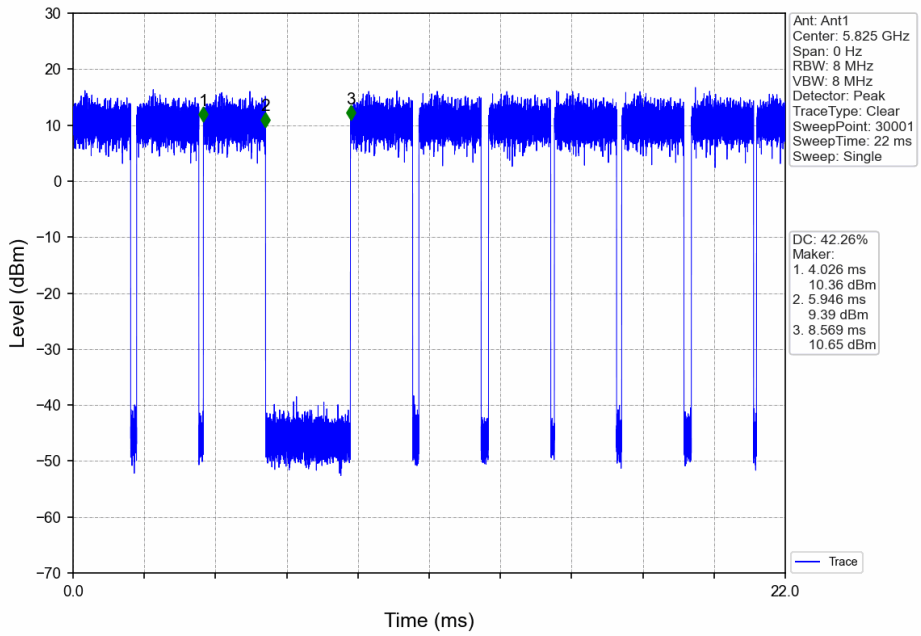

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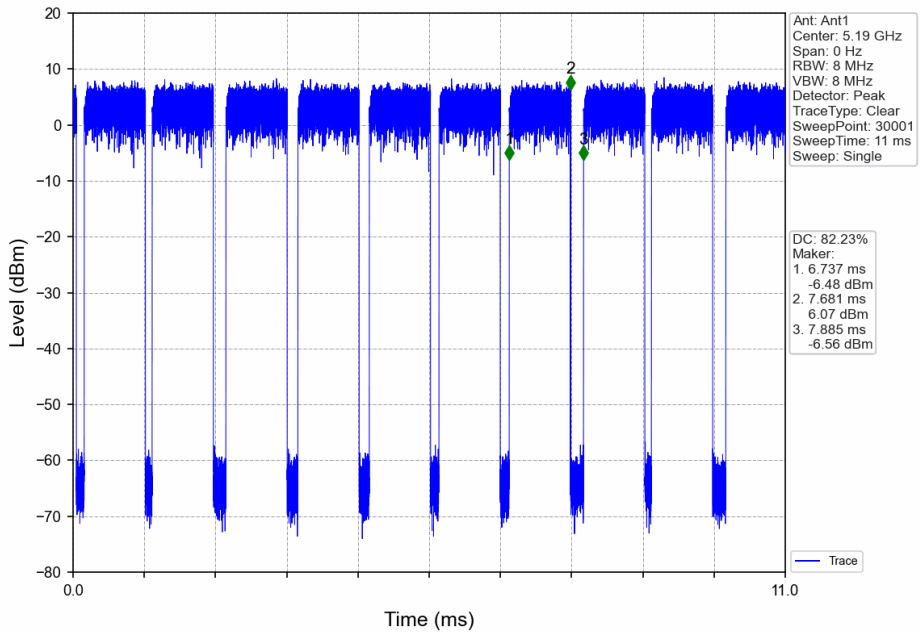
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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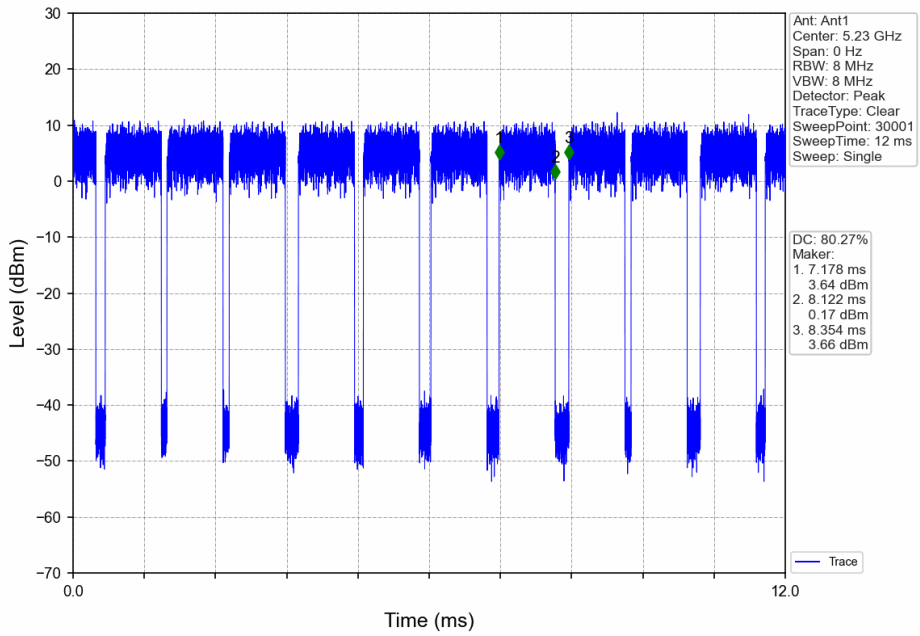

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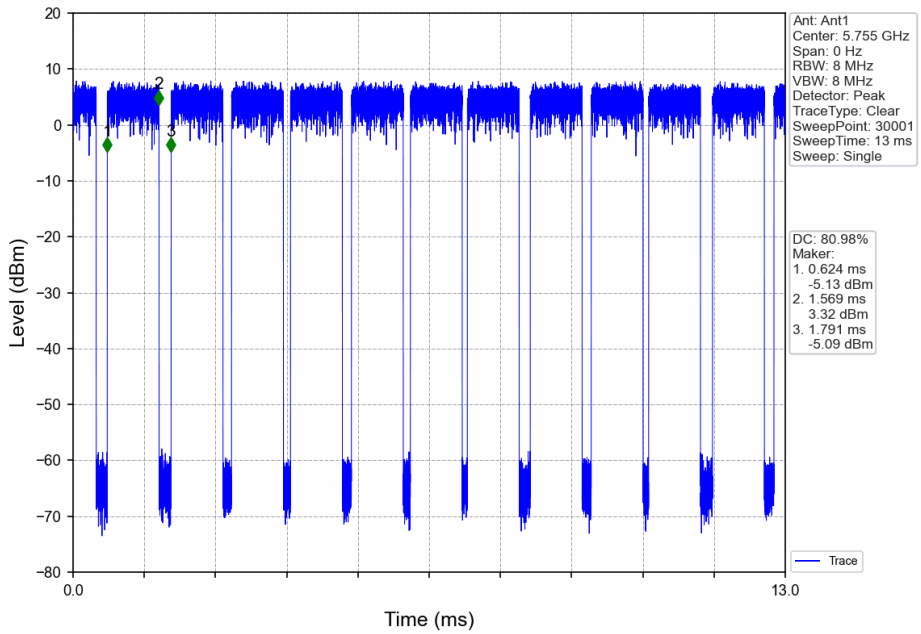
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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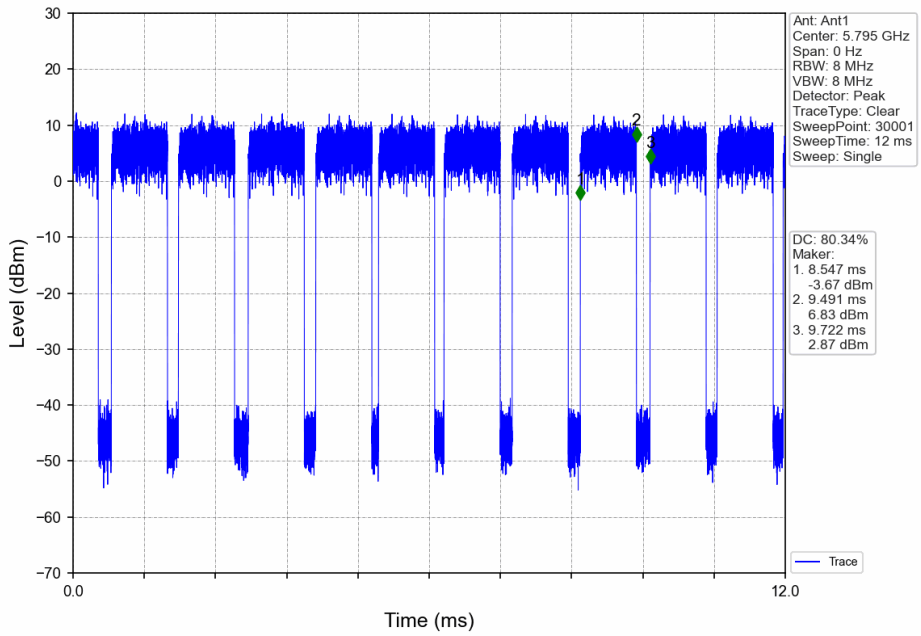

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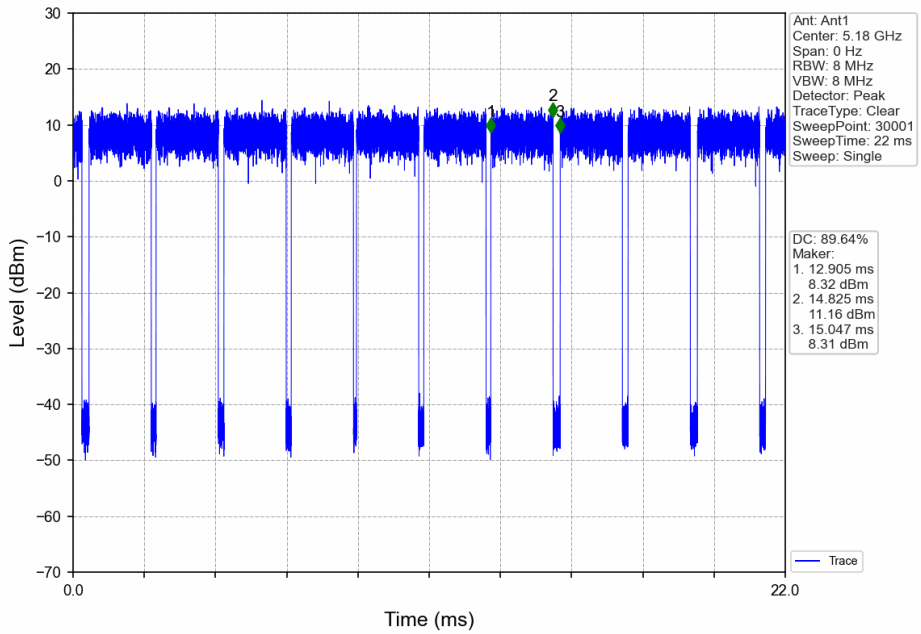
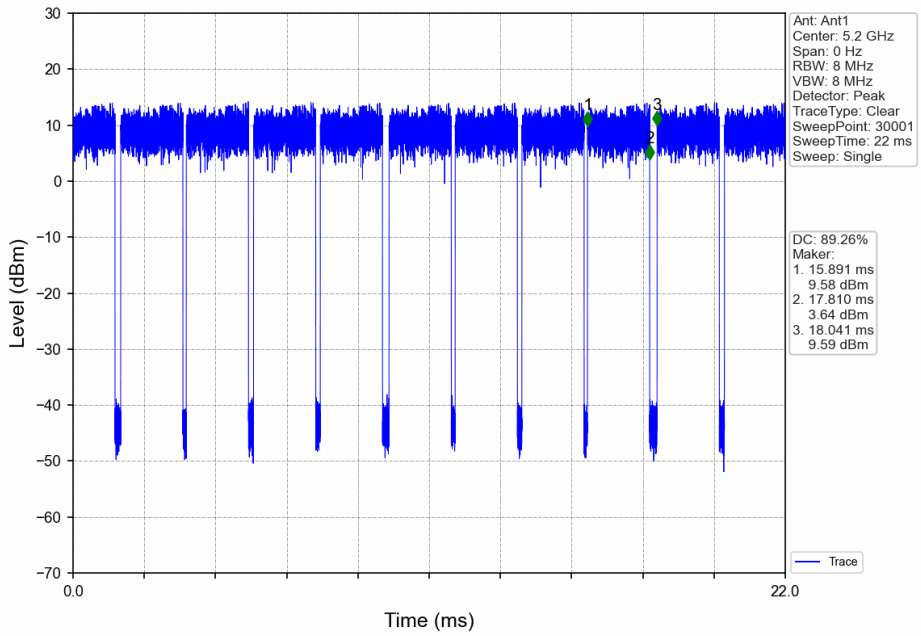
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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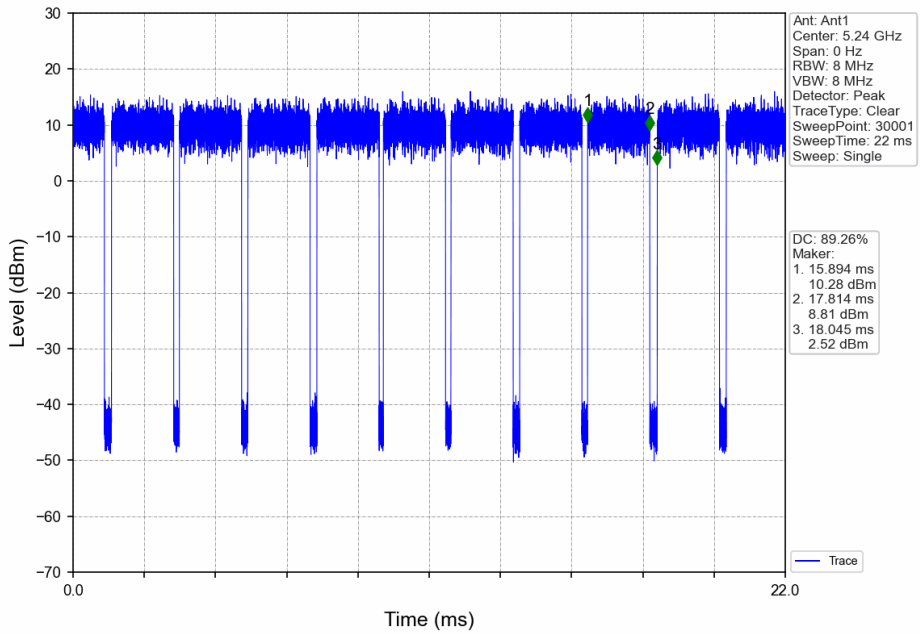
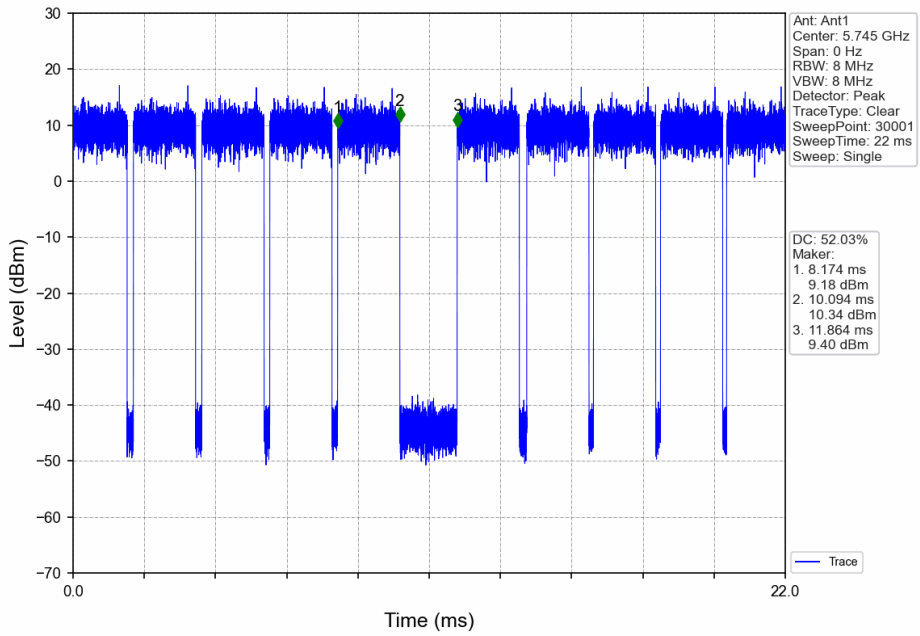
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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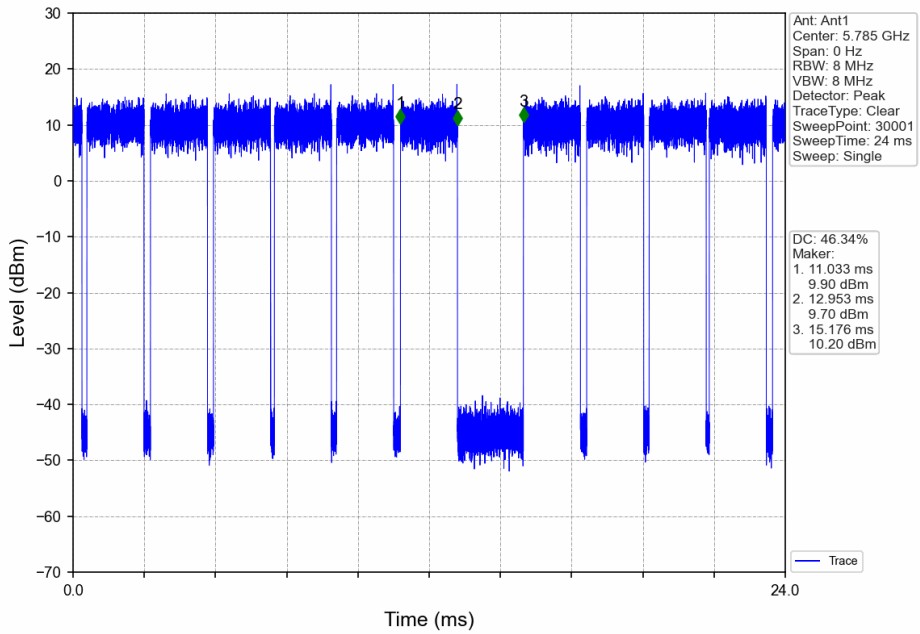
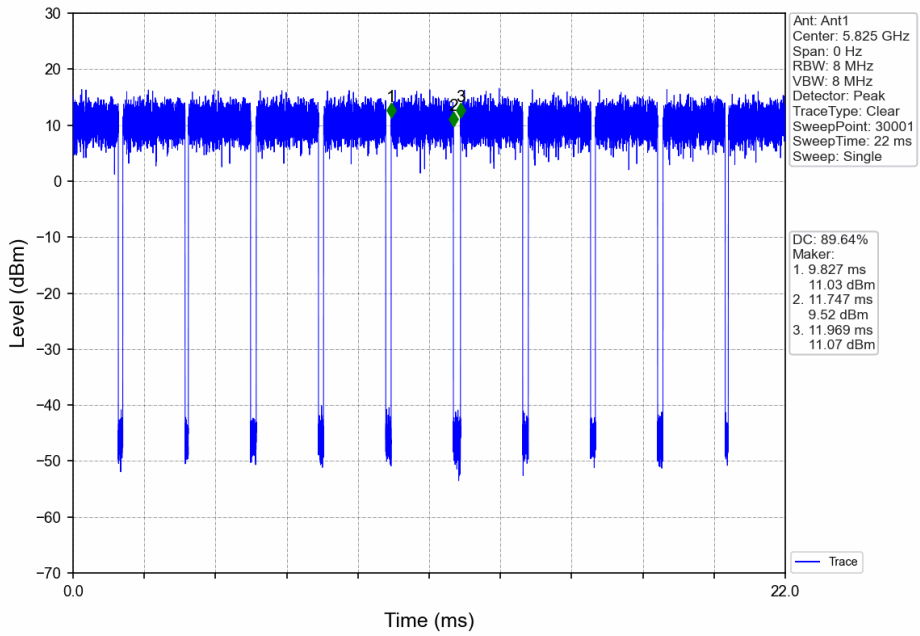


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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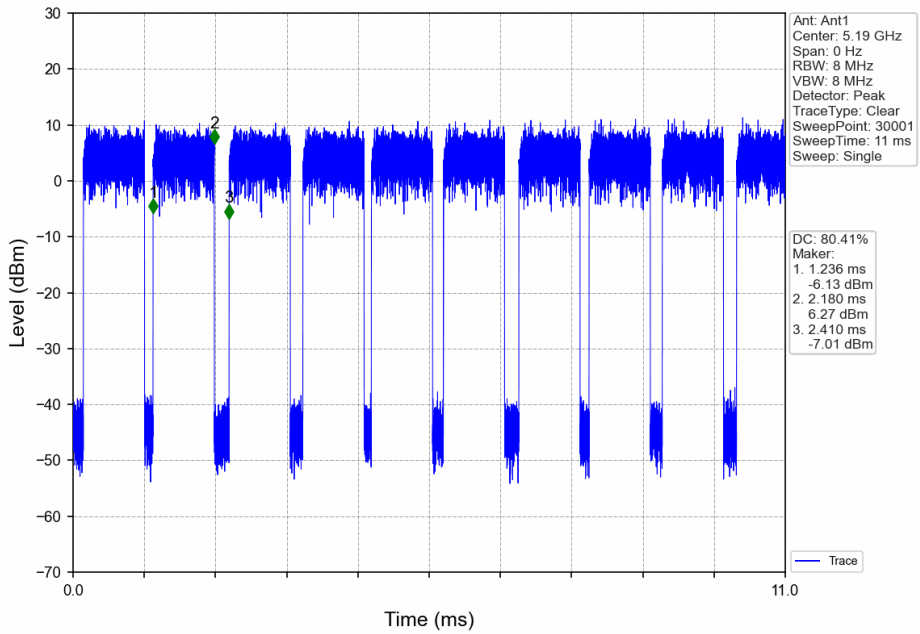
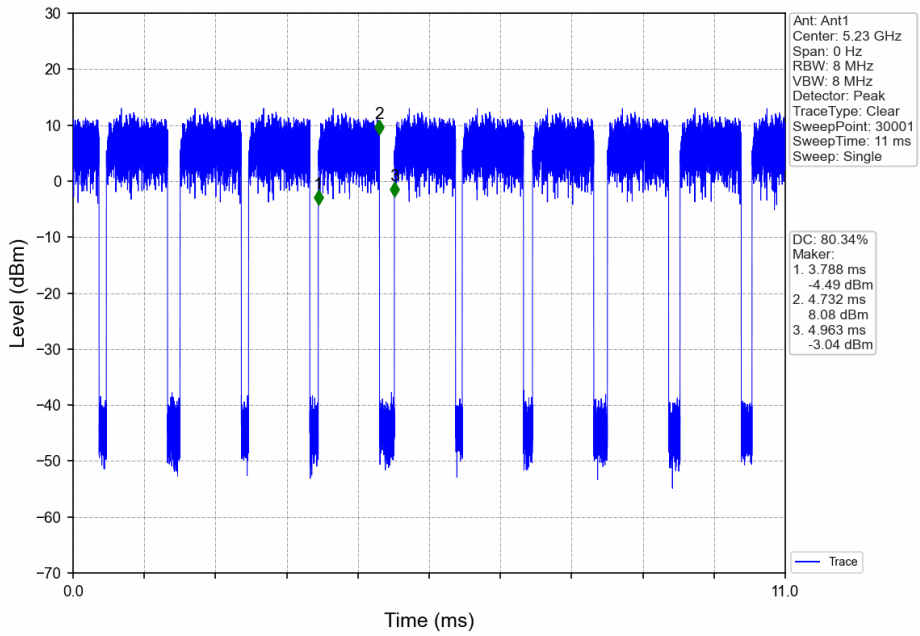


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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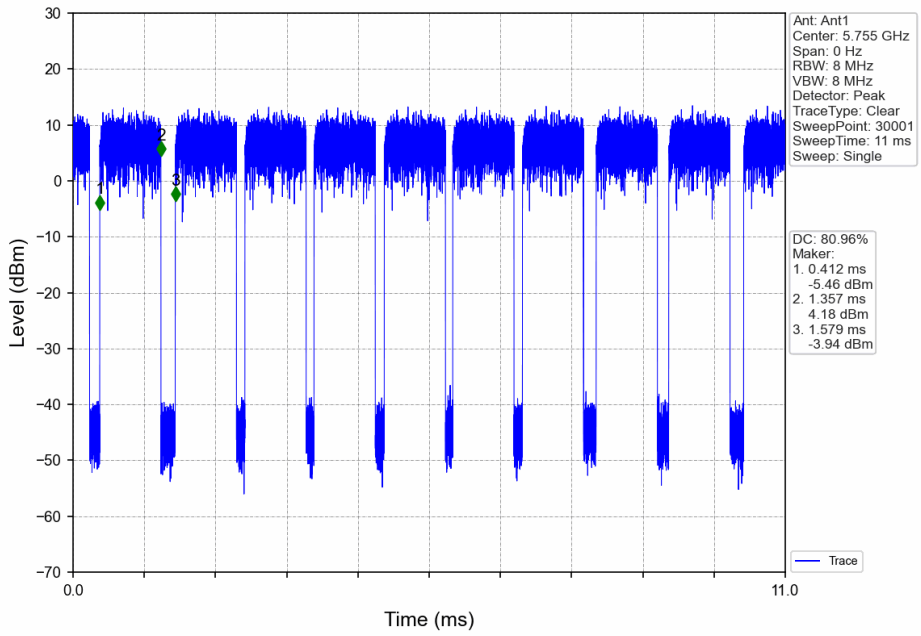
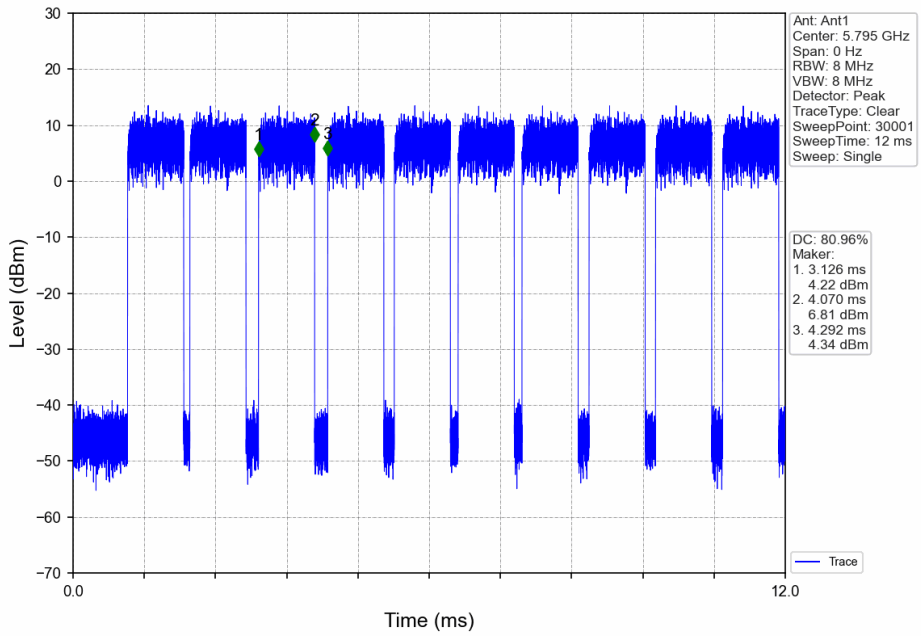
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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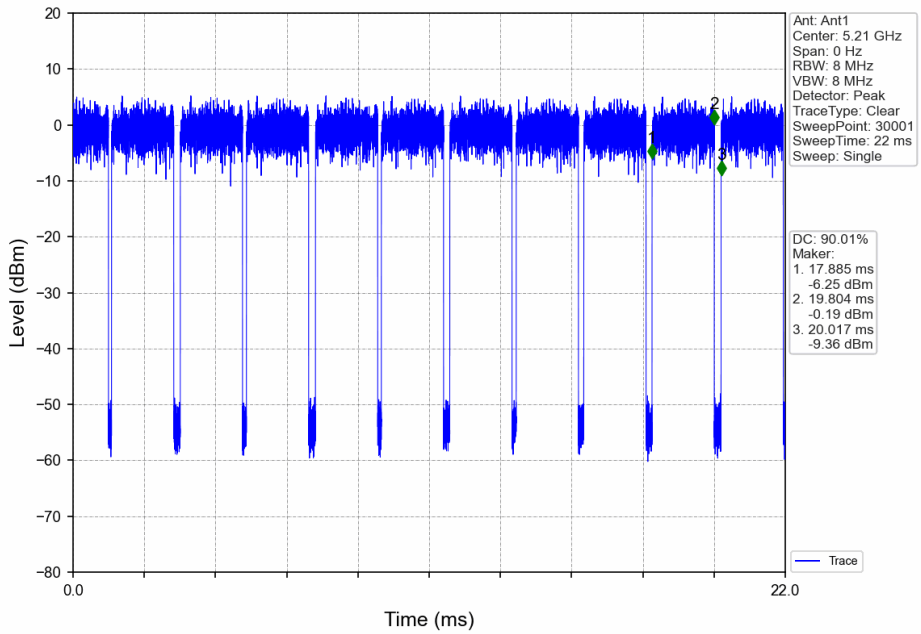
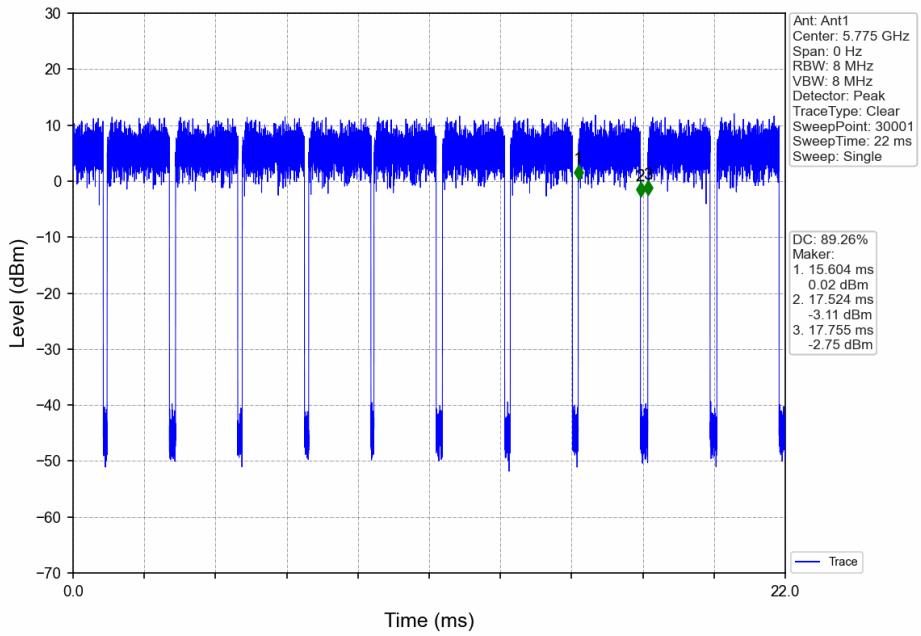
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_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) Result	Verdict
802.11a	SISO	5180	1	16.719	Pass
			2	16.609	Pass
		5200	1	17.750	Pass
			2	17.796	Pass
		5240	1	17.768	Pass
			2	17.776	Pass
		5745	1	17.746	Pass
			2	17.772	Pass
		5785	1	17.790	Pass
			2	17.776	Pass
		5825	1	17.746	Pass
			2	17.767	Pass
802.11n (HT20)	MIMO	5180	1	17.752	Pass
			2	17.772	Pass
		5200	1	17.754	Pass
			2	17.759	Pass
		5240	1	17.774	Pass
			2	17.771	Pass
		5745	1	17.775	Pass
			2	17.778	Pass
		5785	1	17.757	Pass
			2	17.750	Pass
		5825	1	17.758	Pass
			2	17.780	Pass
802.11n (HT40)	MIMO	5190	1	36.417	Pass
			2	36.458	Pass
		5230	1	36.461	Pass
			2	36.407	Pass
		5755	1	36.298	Pass
			2	36.345	Pass
		5795	1	36.341	Pass
			2	36.448	Pass
802.11ac (VHT20)	MIMO	5180	1	17.779	Pass
			2	17.748	Pass
		5200	1	17.749	Pass
			2	17.785	Pass
		5240	1	17.778	Pass
			2	17.758	Pass
		5745	1	17.738	Pass
			2	17.685	Pass
		5785	1	17.752	Pass
			2	17.773	Pass
		5825	1	17.767	Pass

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			2	17.762	Pass
802.11ac (VHT40)	MIMO	5190	1	36.376	Pass
			2	36.388	Pass
		5230	1	36.343	Pass
			2	36.314	Pass
		5755	1	36.488	Pass
			2	36.316	Pass
		5795	1	36.492	Pass
			2	36.354	Pass
802.11ac (VHT80)	MIMO	5210	1	75.137	Pass
			2	75.091	Pass
		5775	1	75.359	Pass
			2	75.338	Pass

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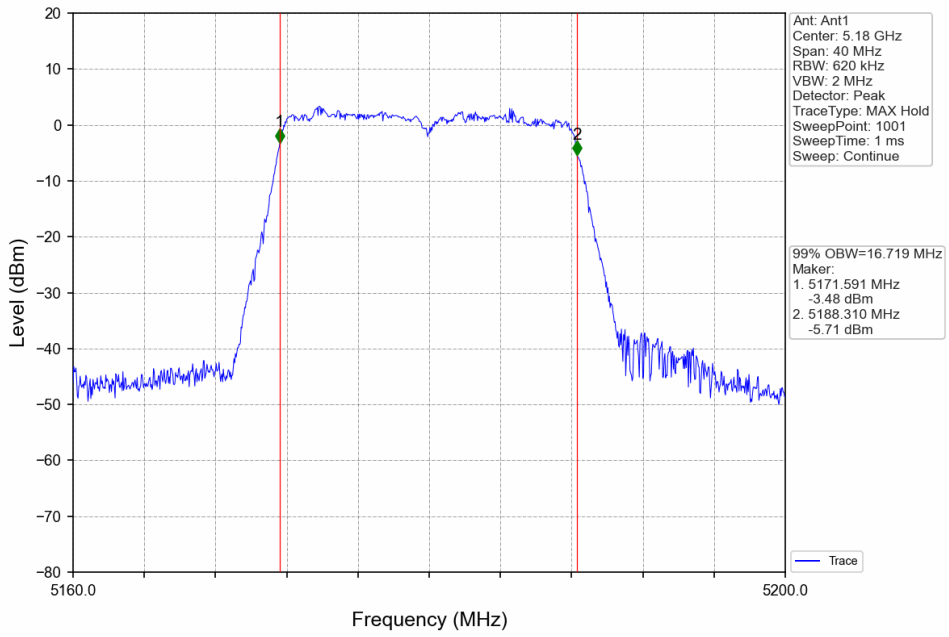
2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_LCH_5180MHz_Ant2_NTNV

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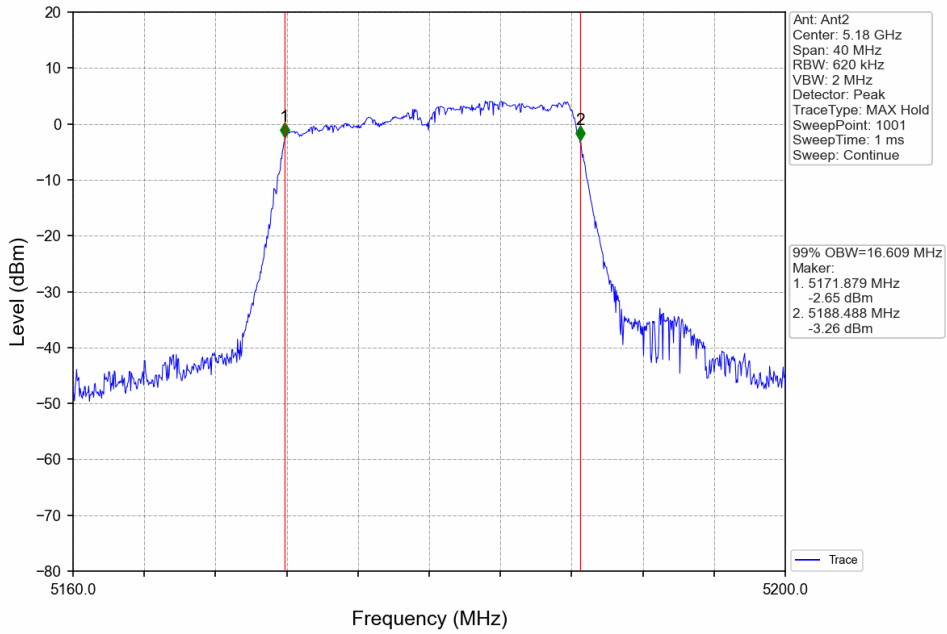

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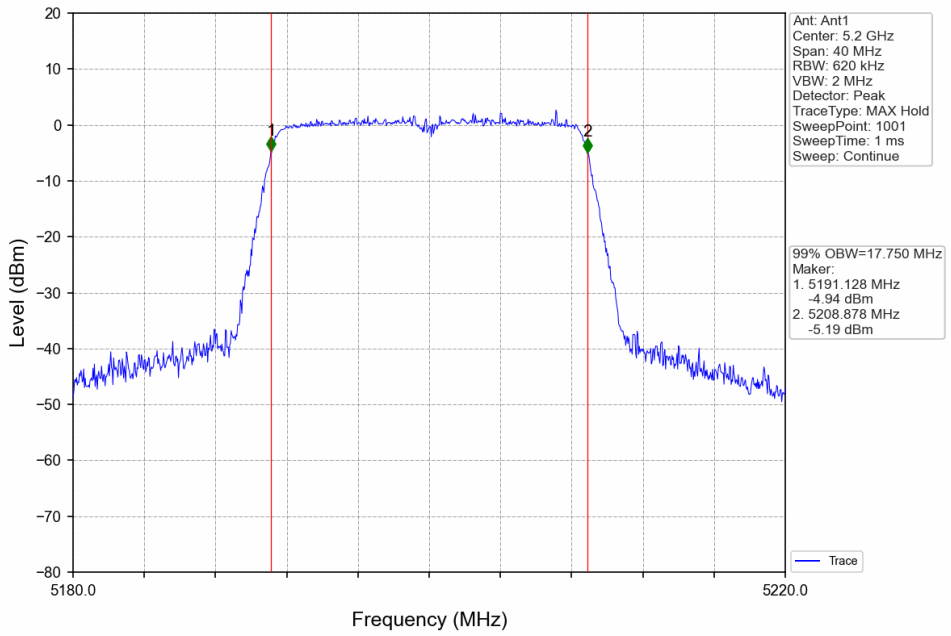
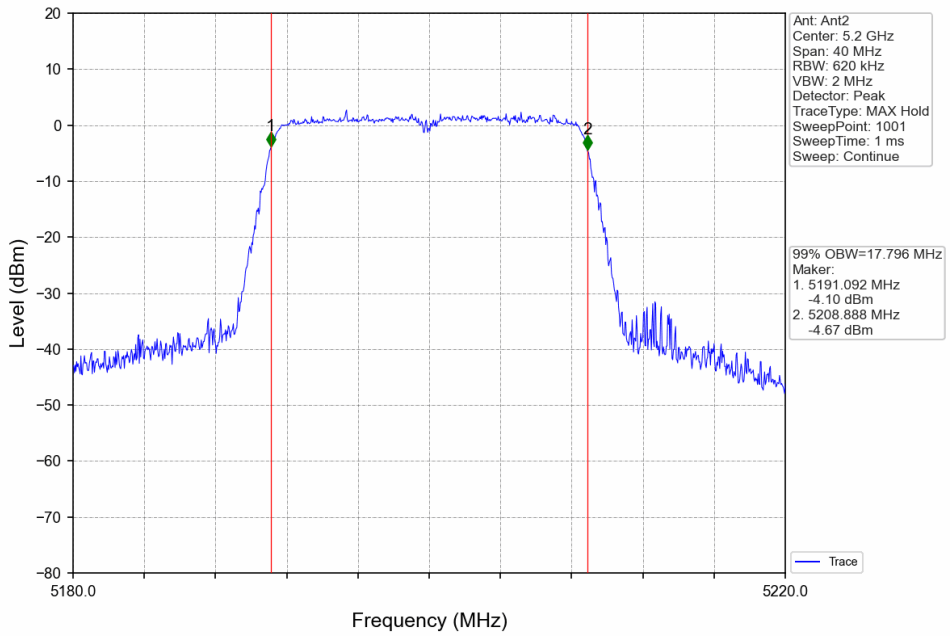
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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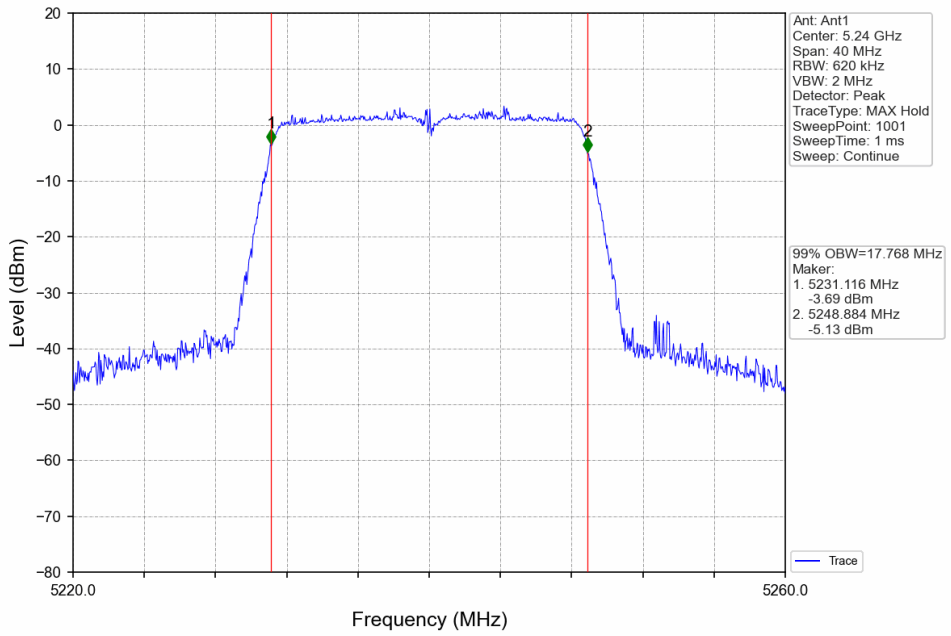
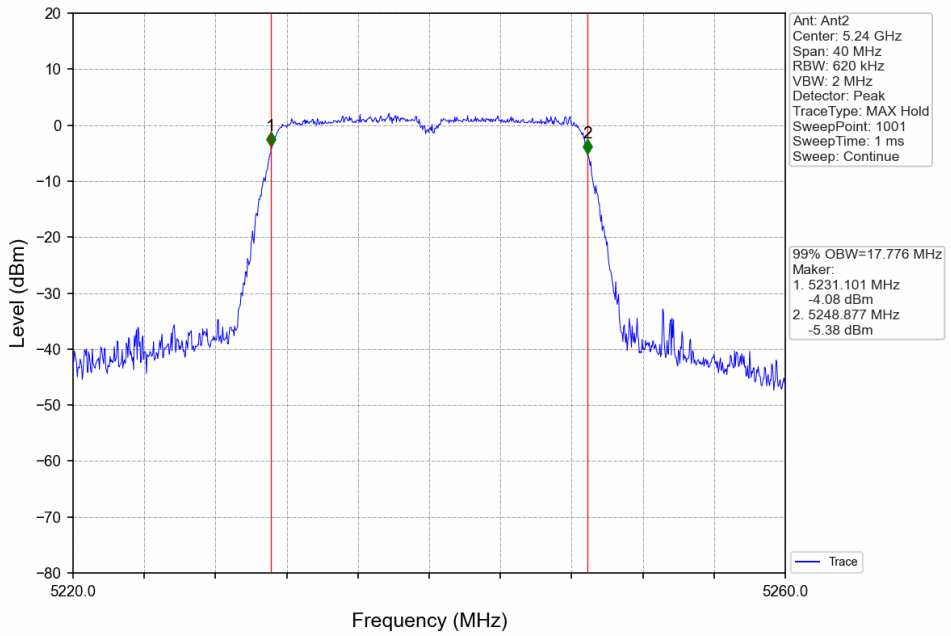
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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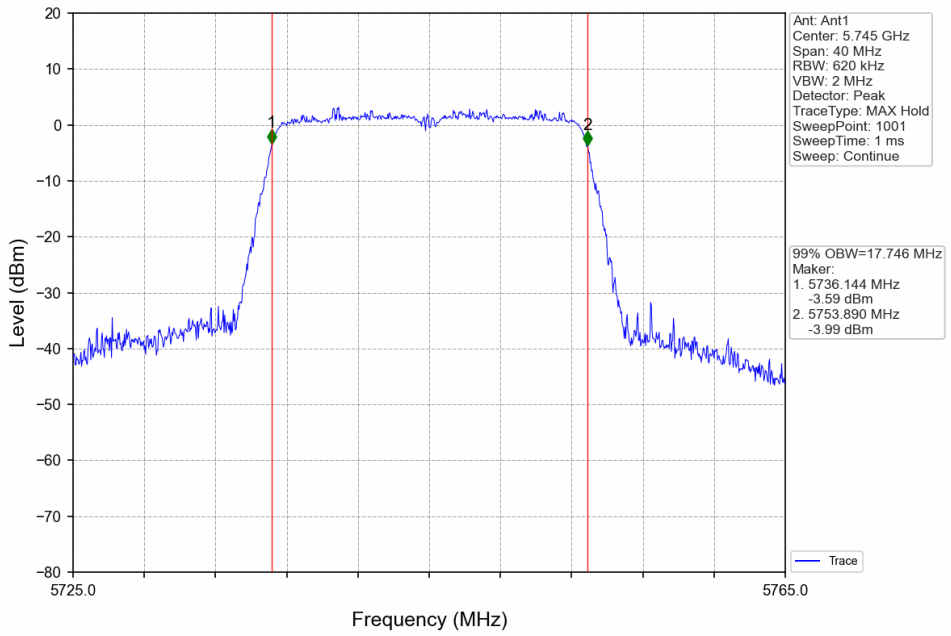
802.11a_LCH_5745MHz_Ant1_NTNV



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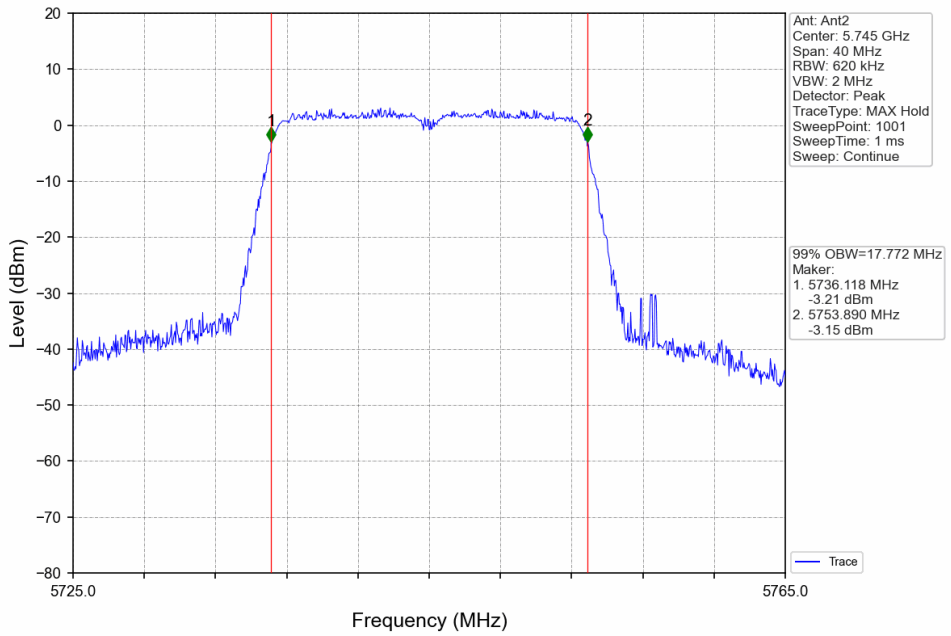

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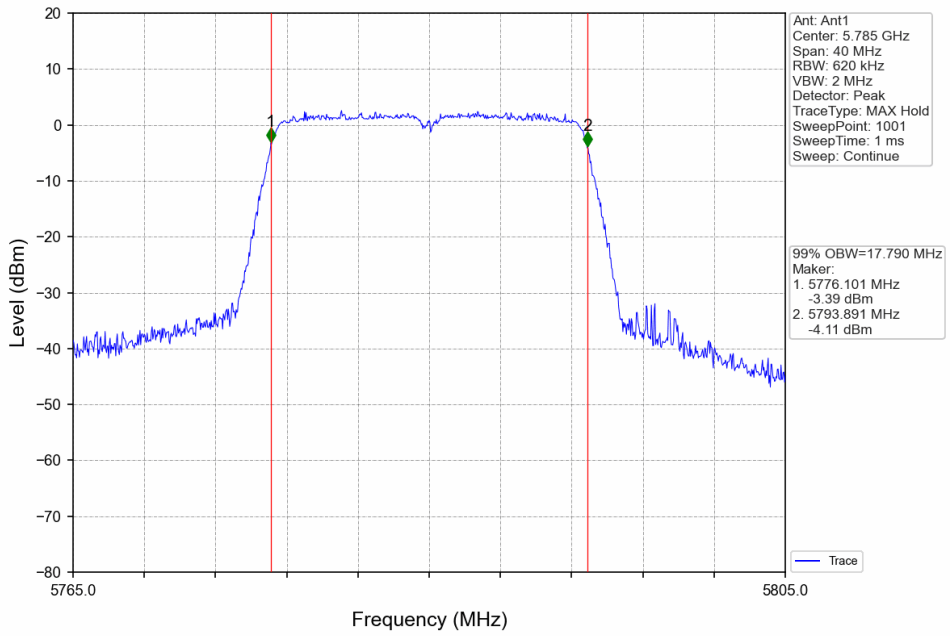
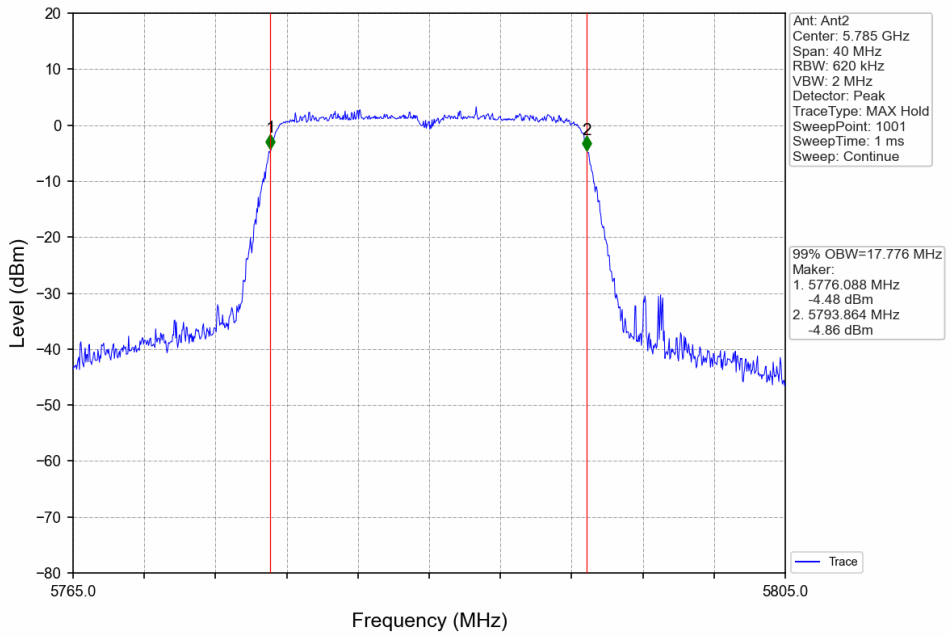
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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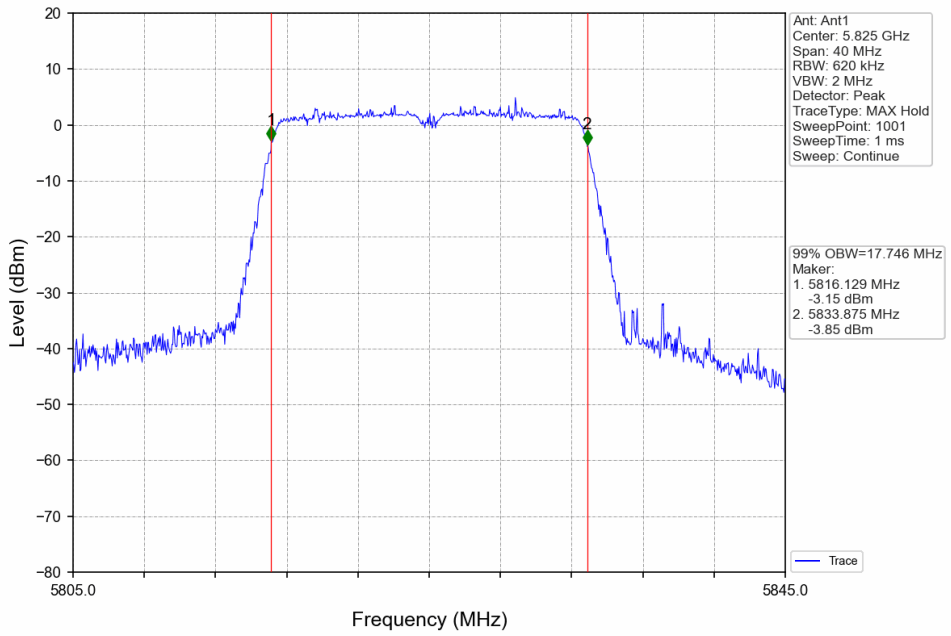
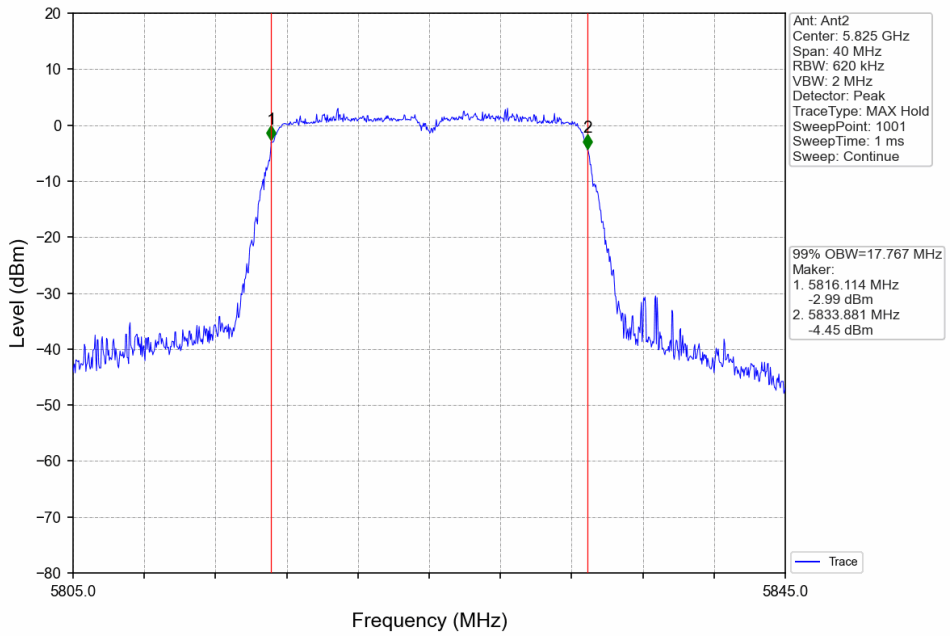
802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



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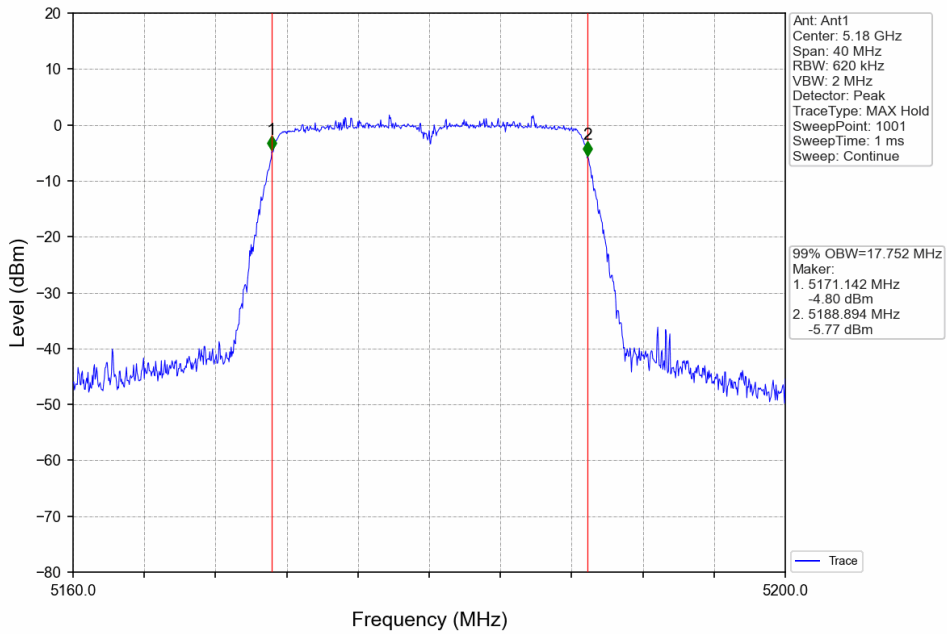
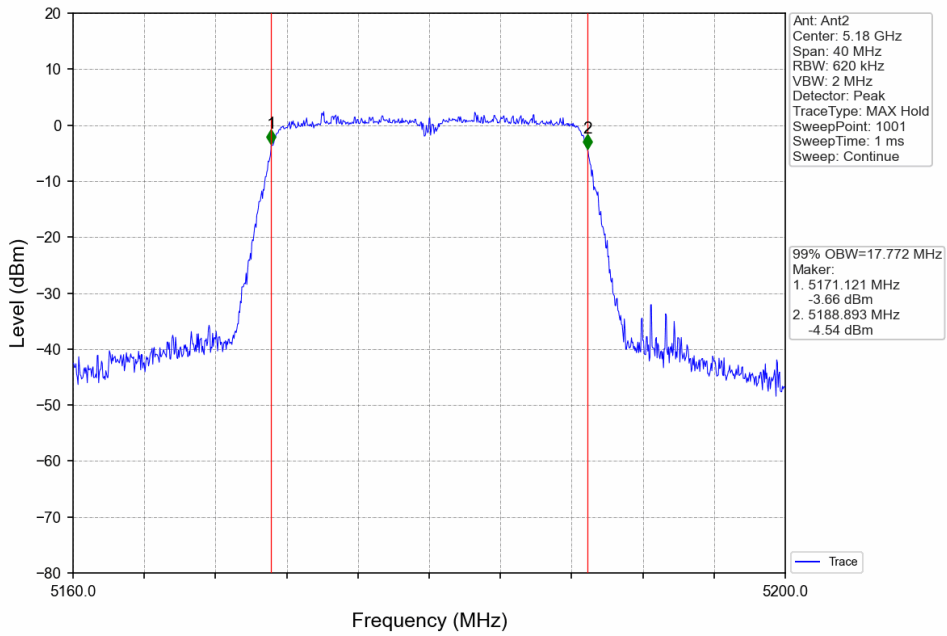
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



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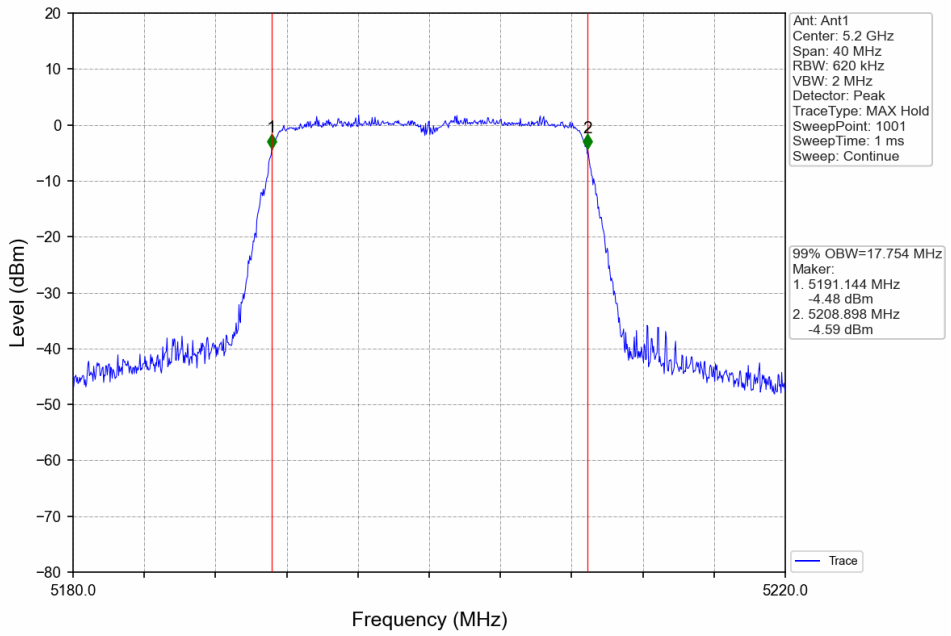
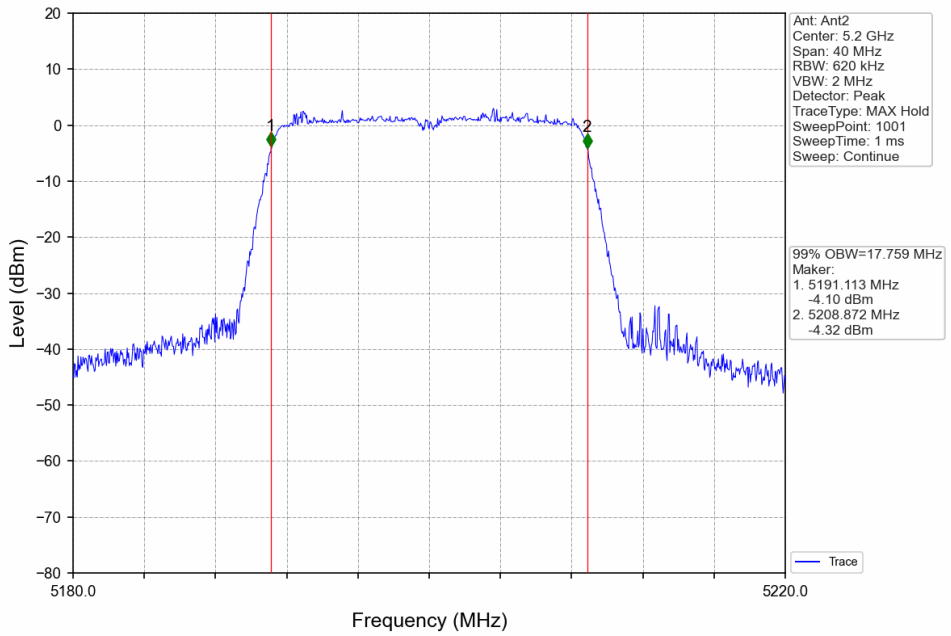
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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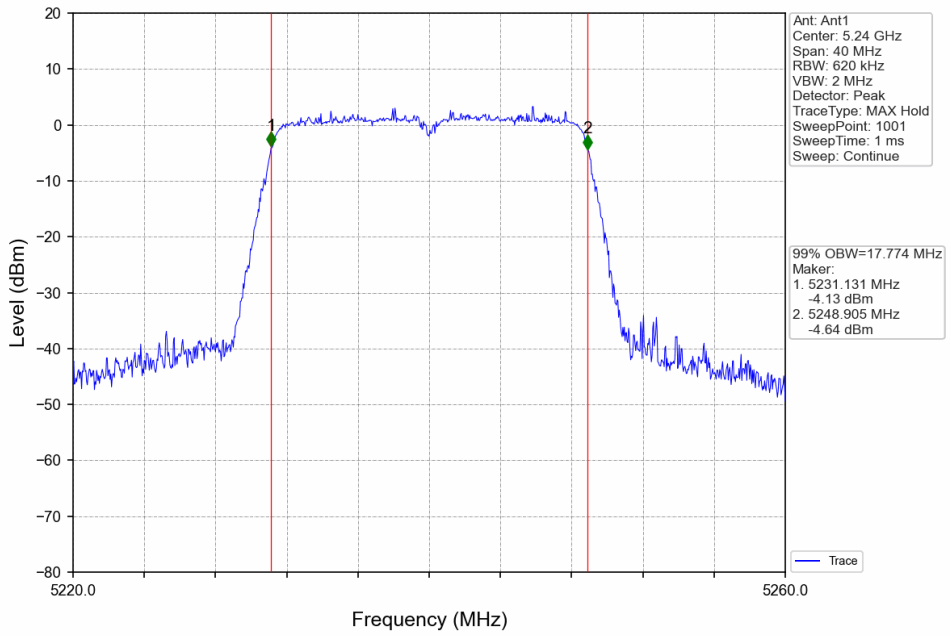
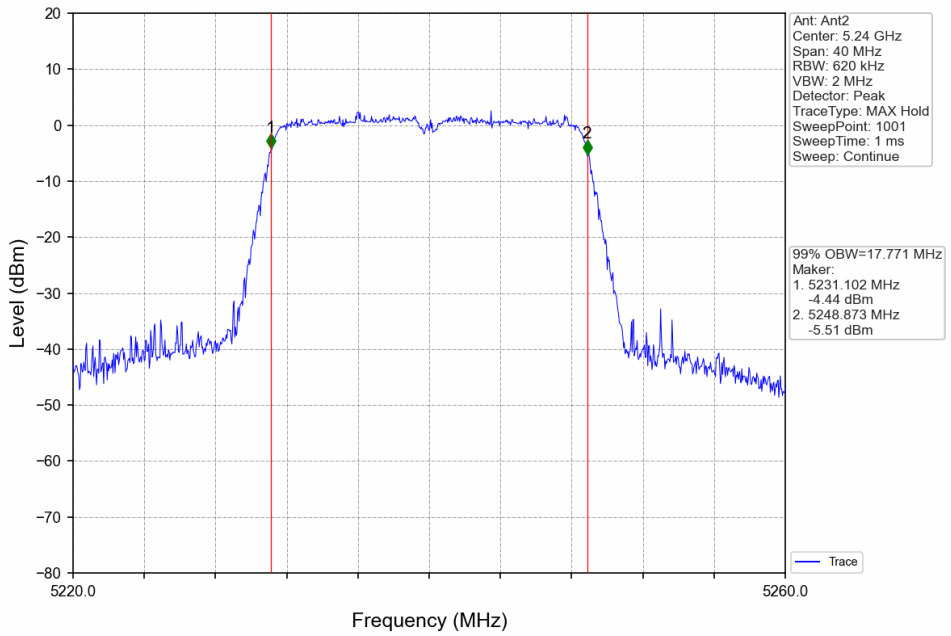
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



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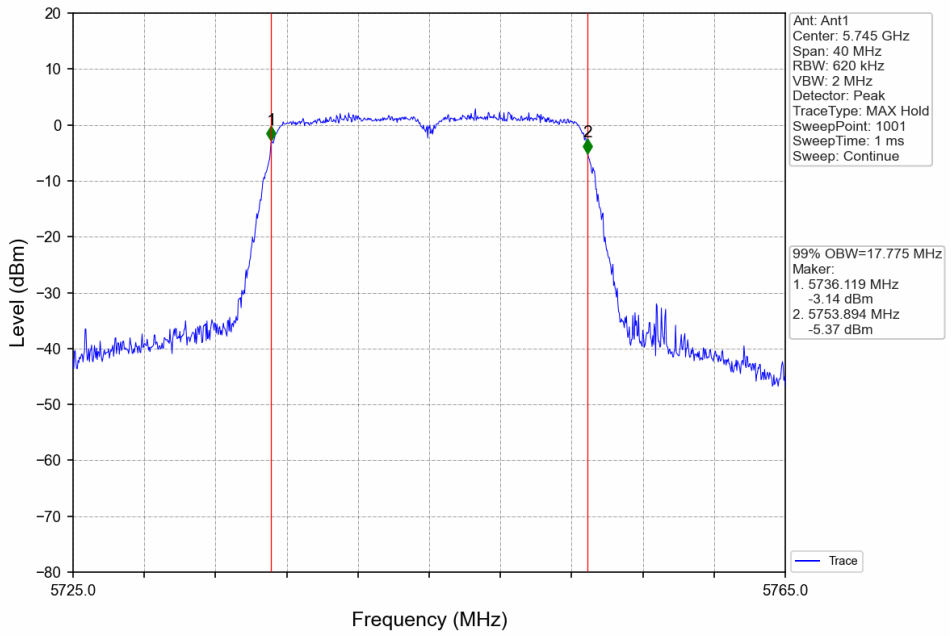
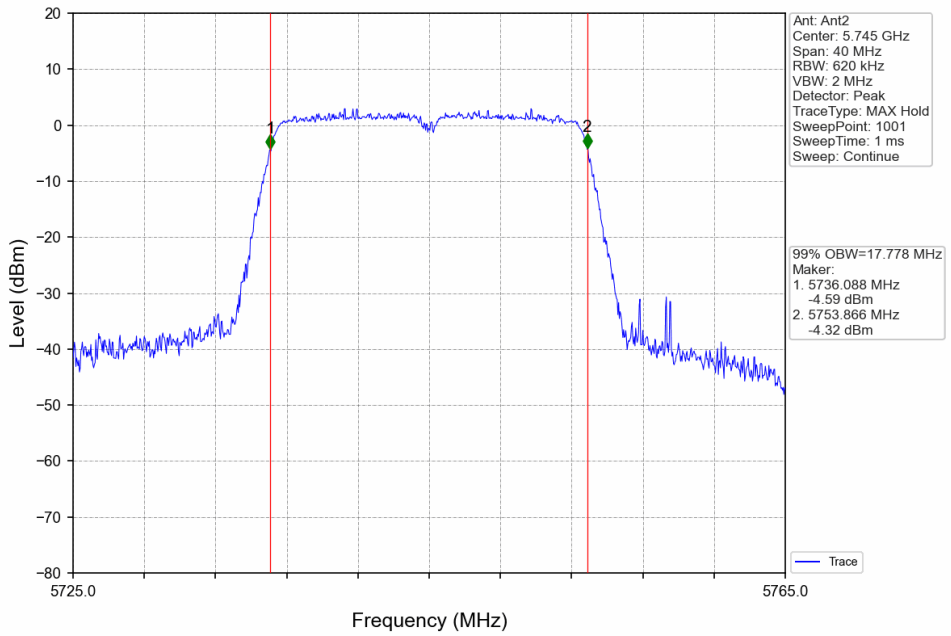
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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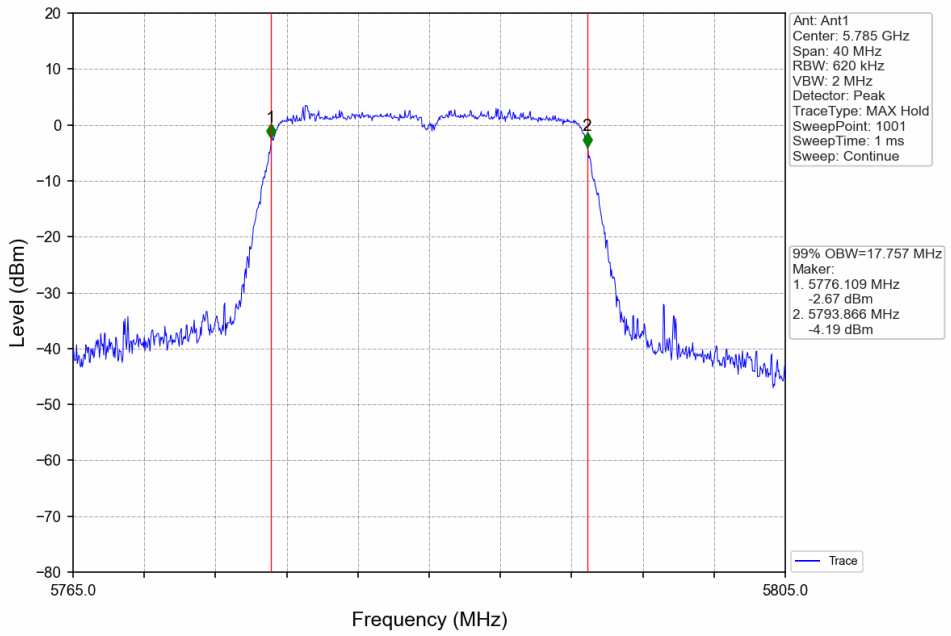
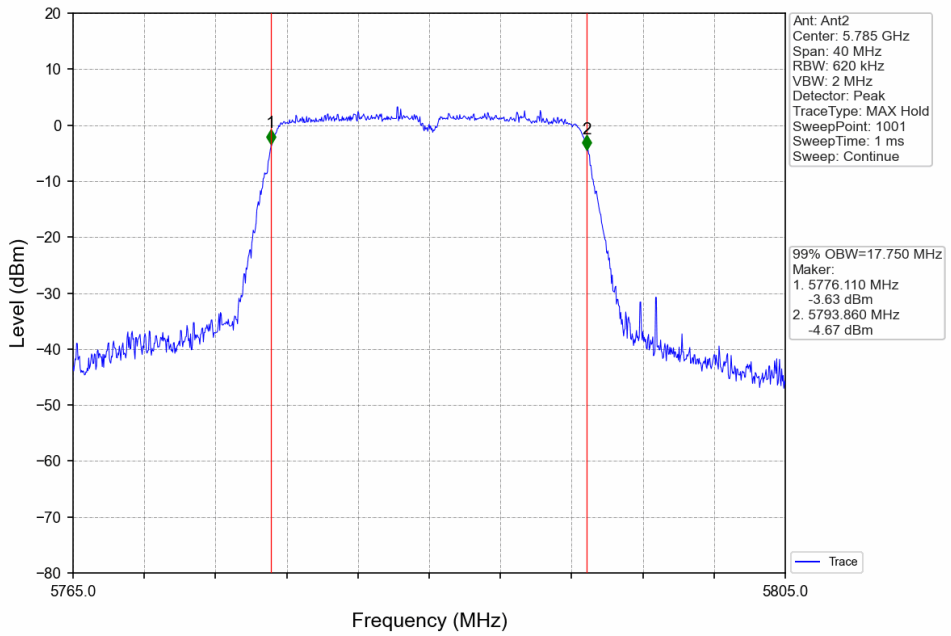
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



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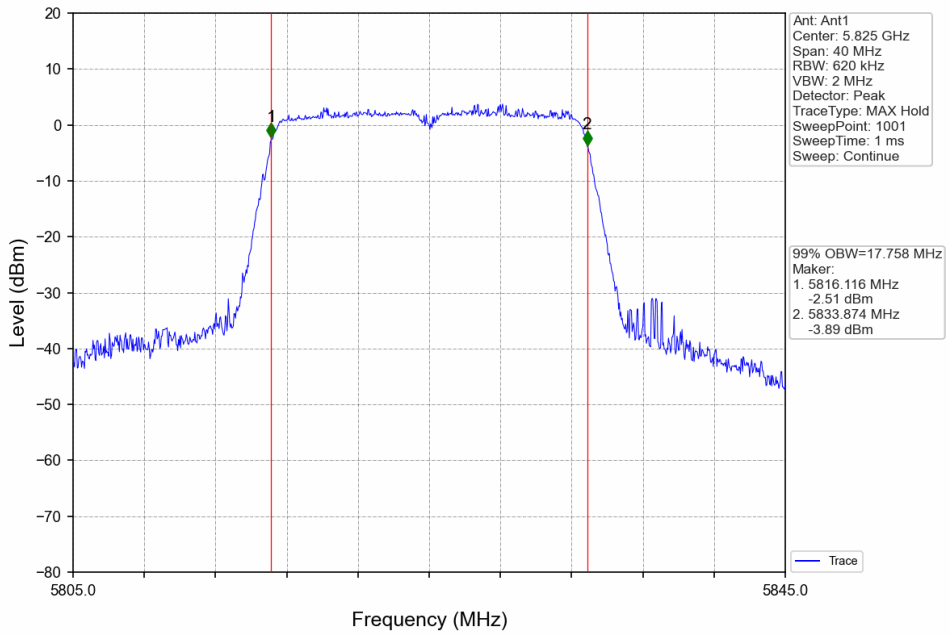
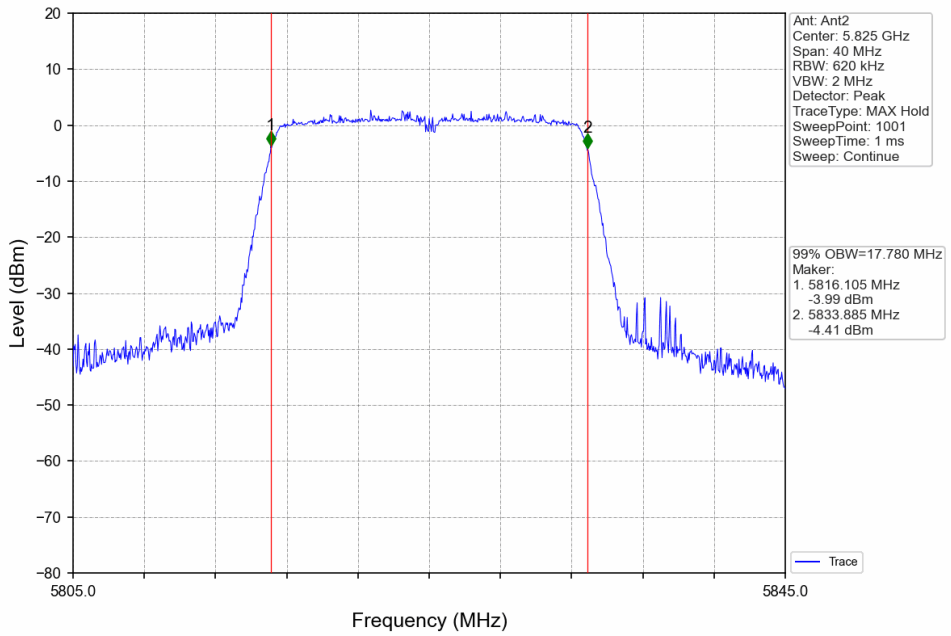
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



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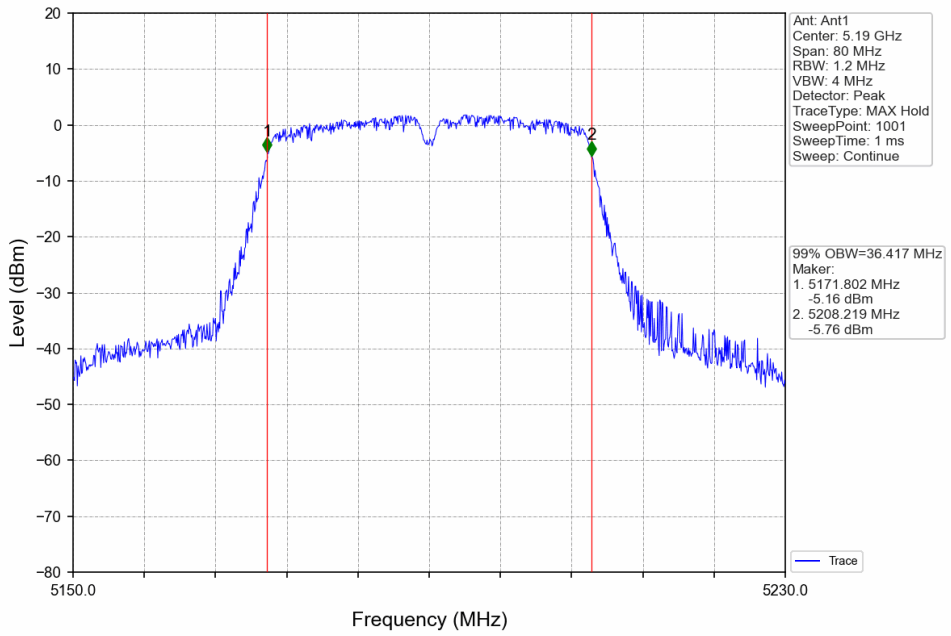
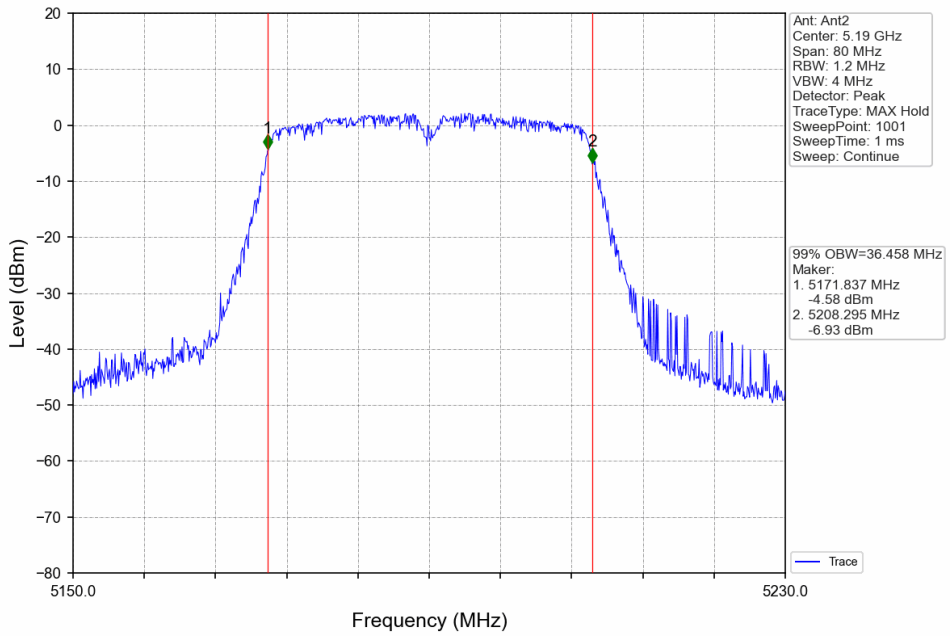
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



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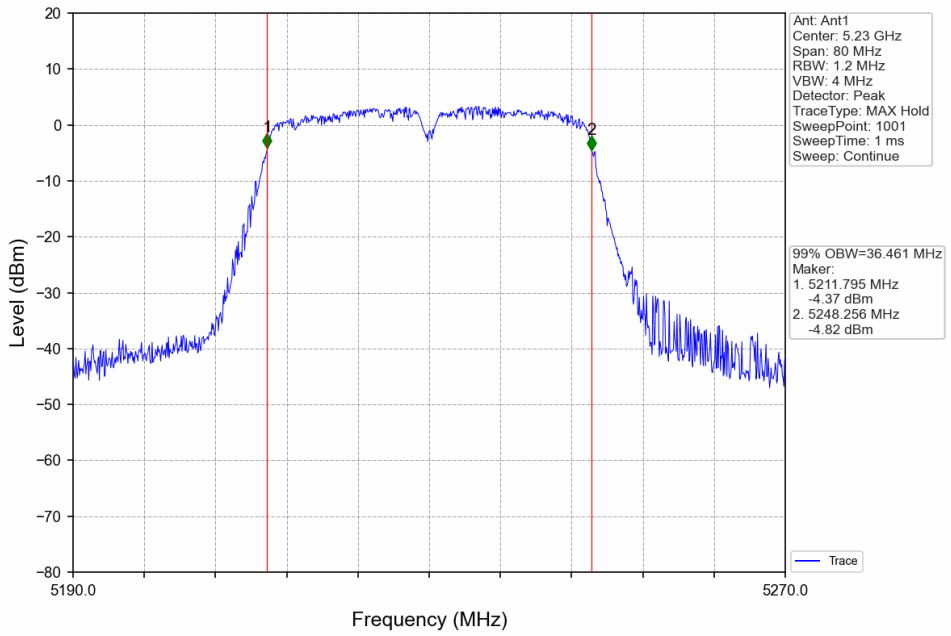
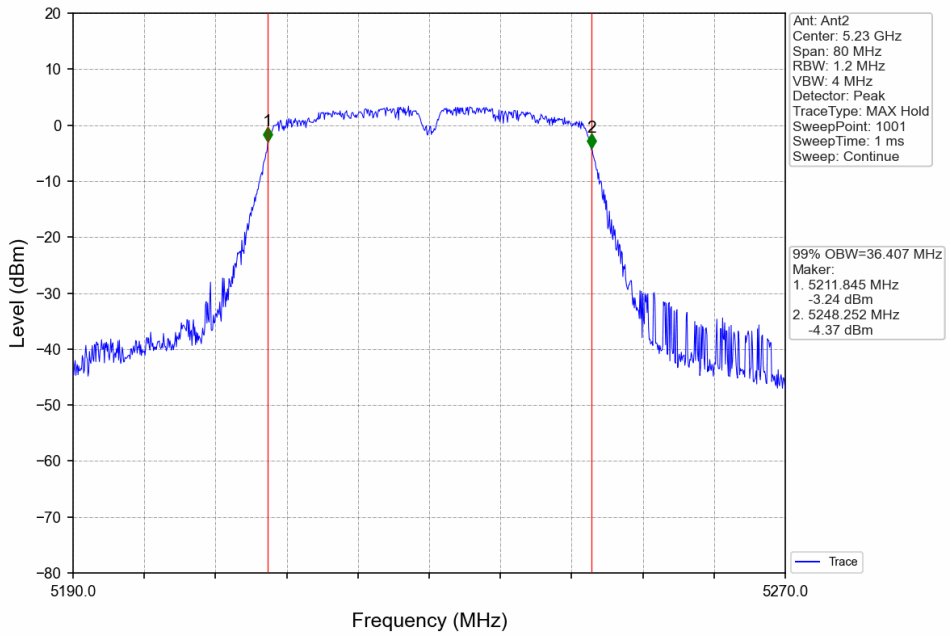
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



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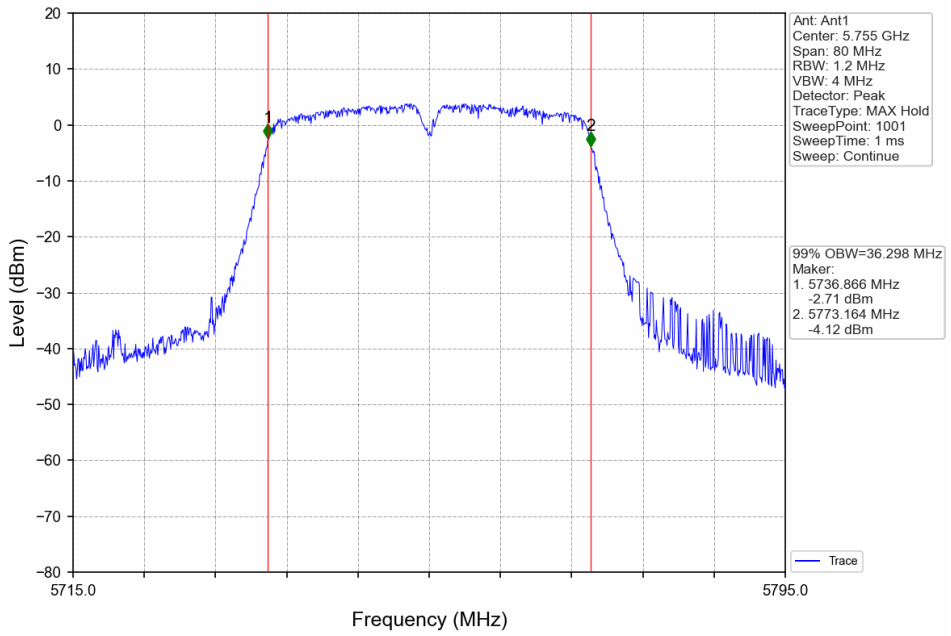

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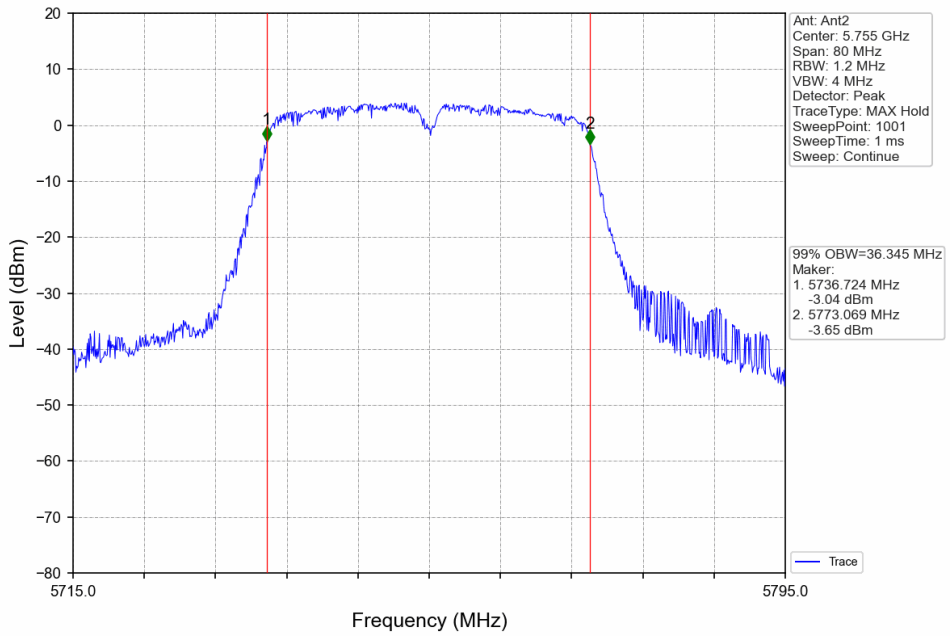

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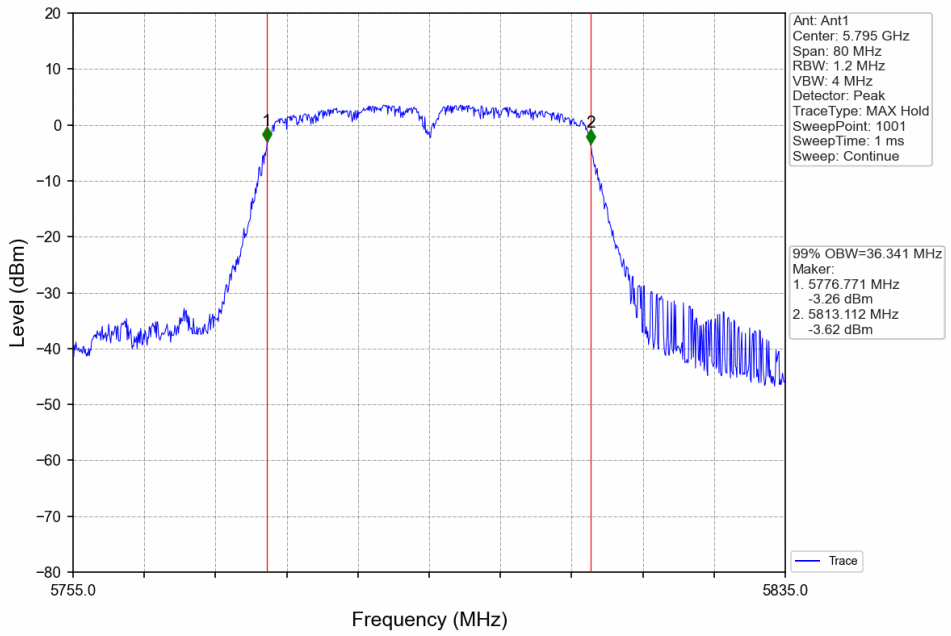
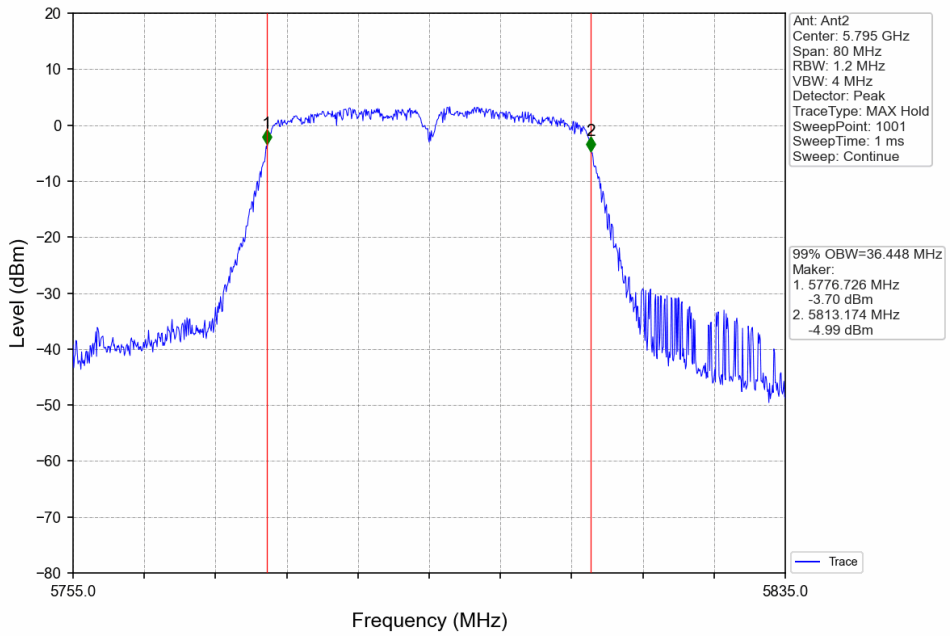
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



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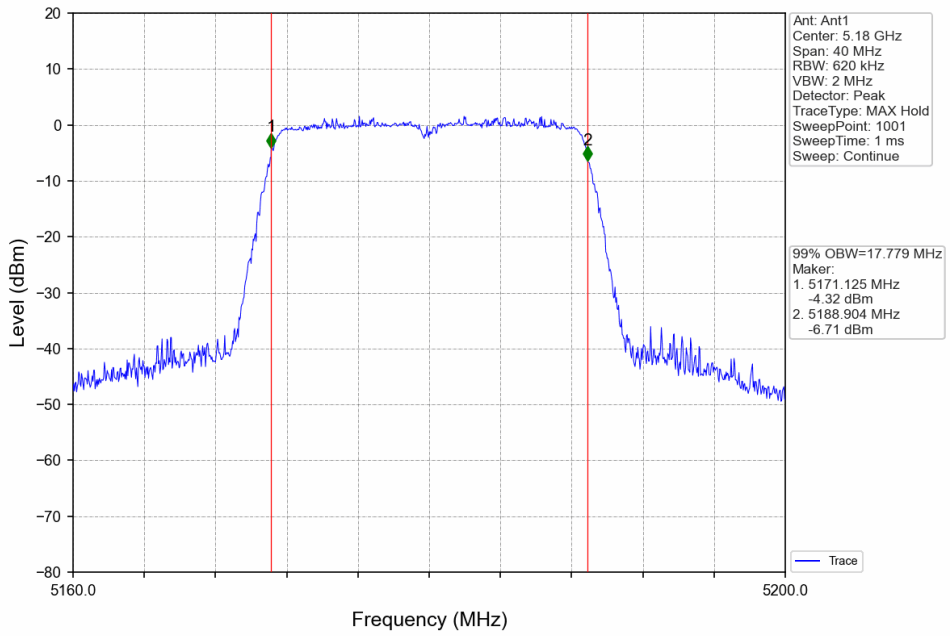
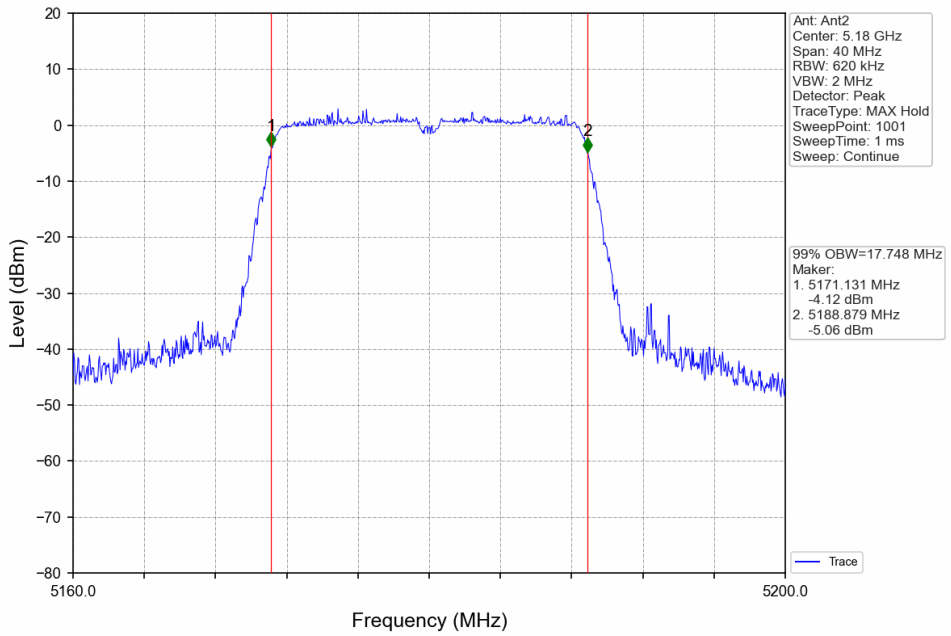
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



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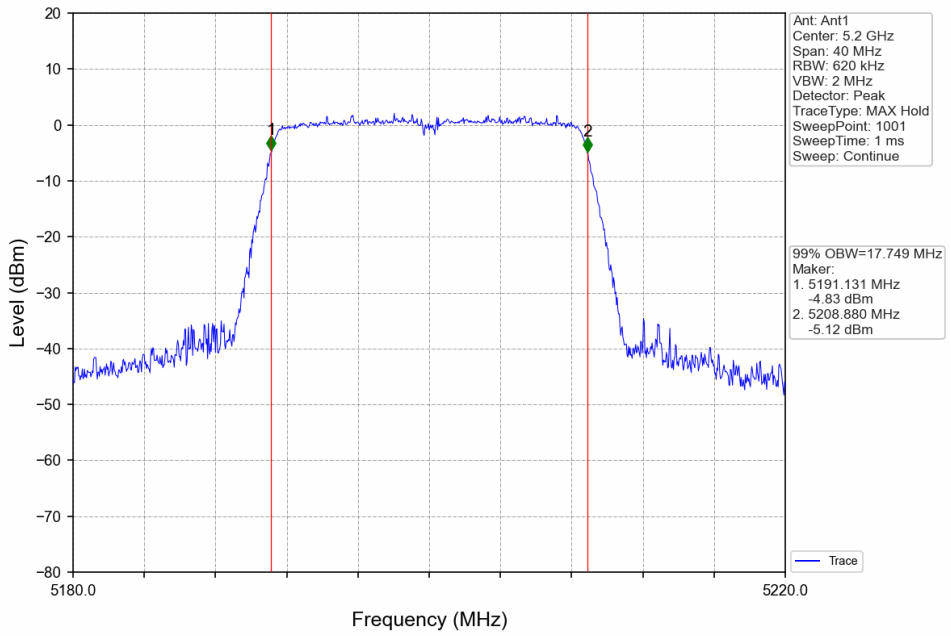
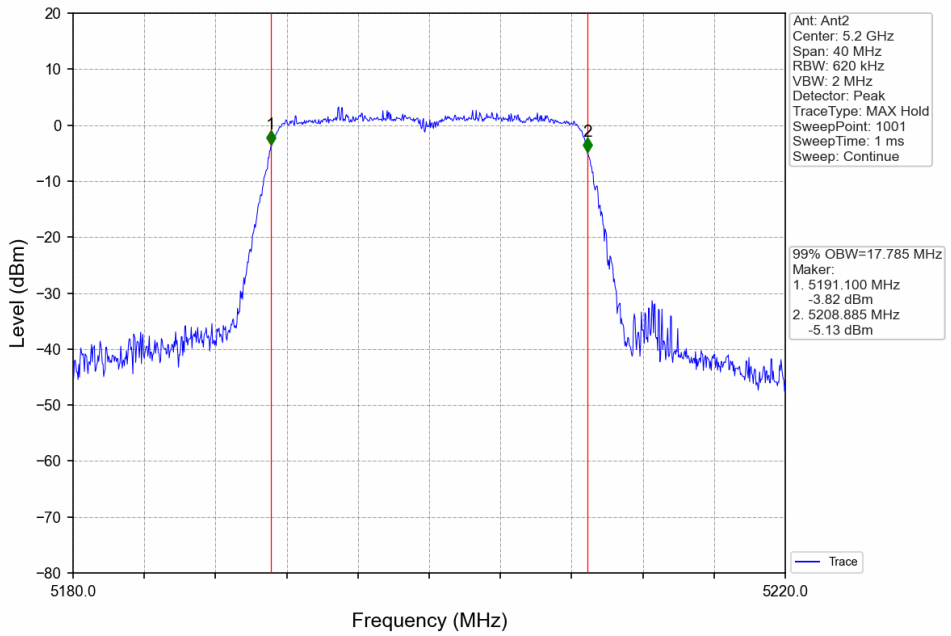
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



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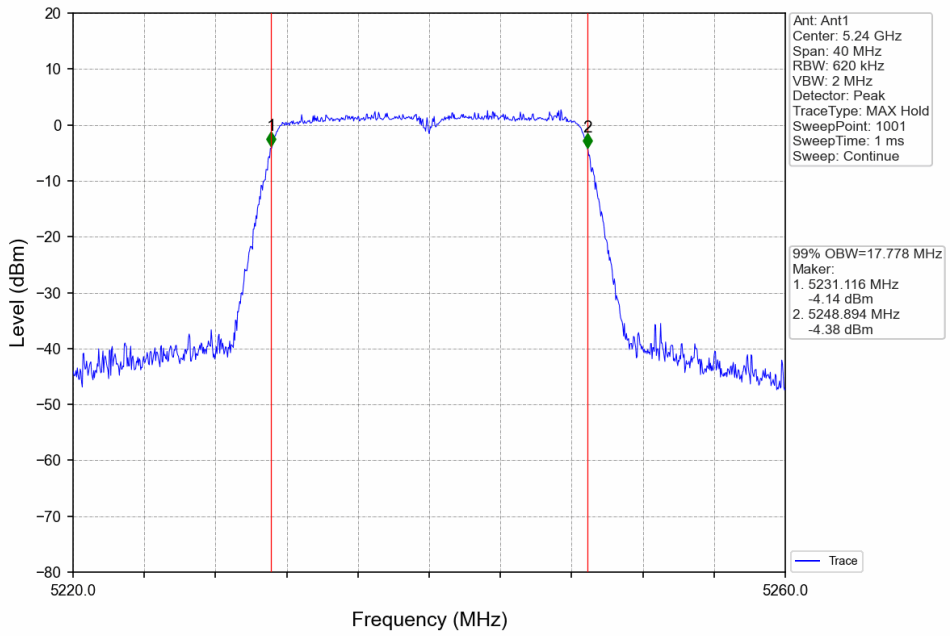
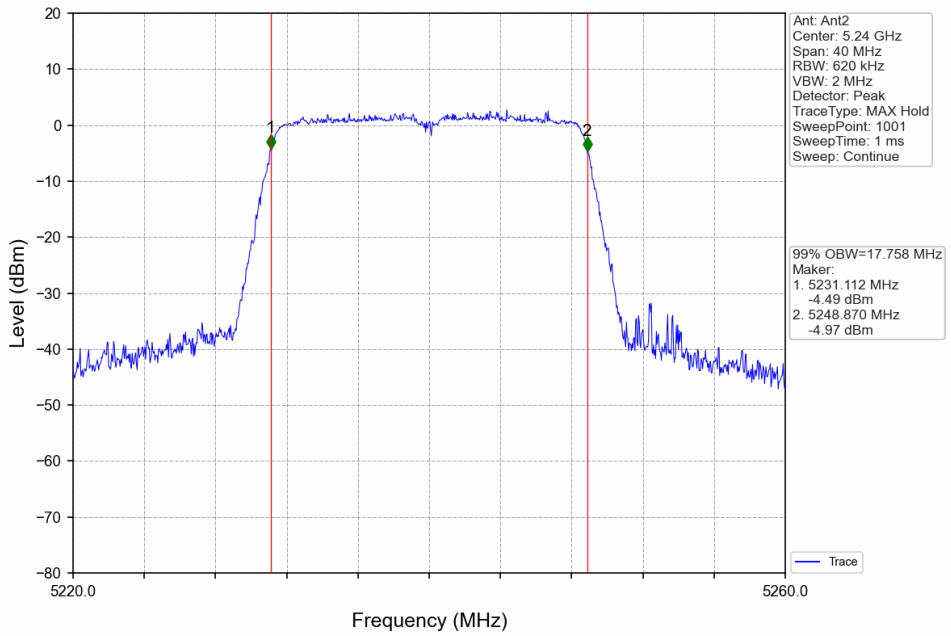
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



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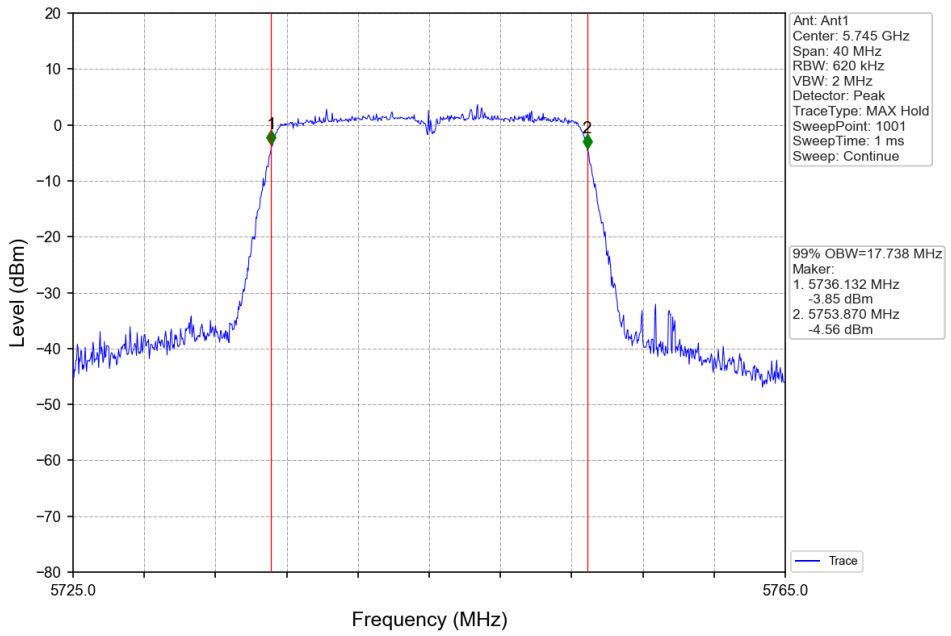
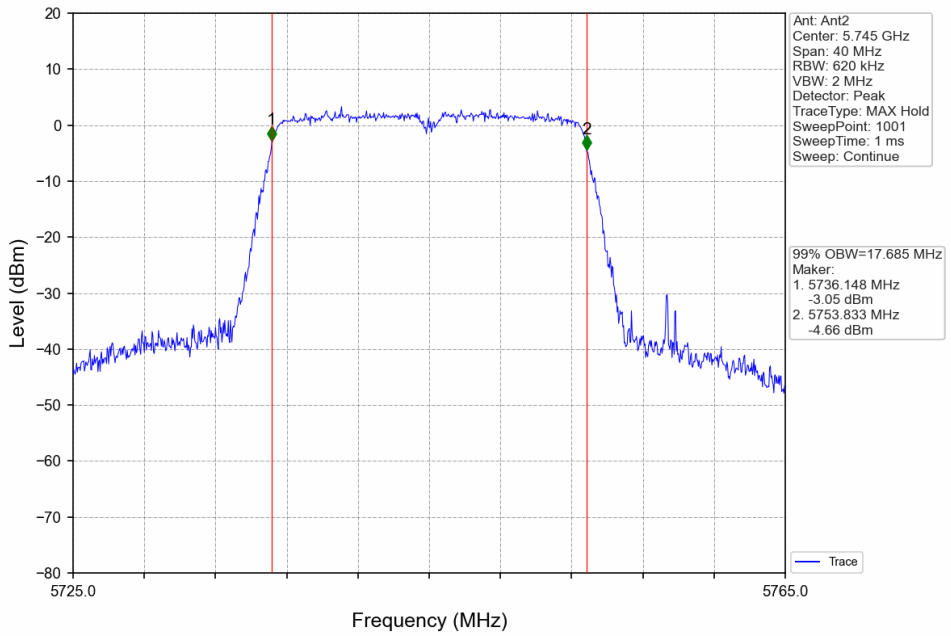
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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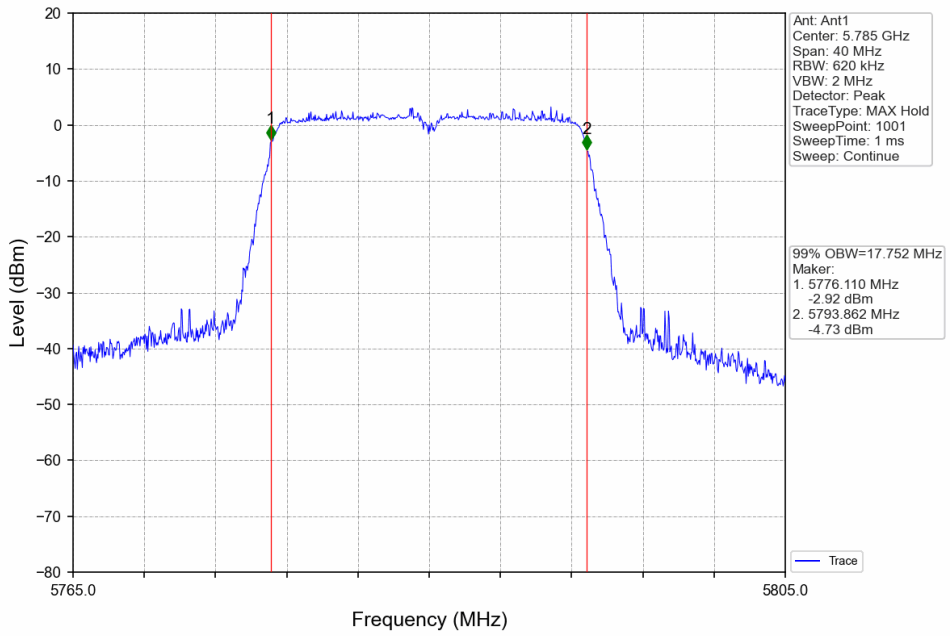
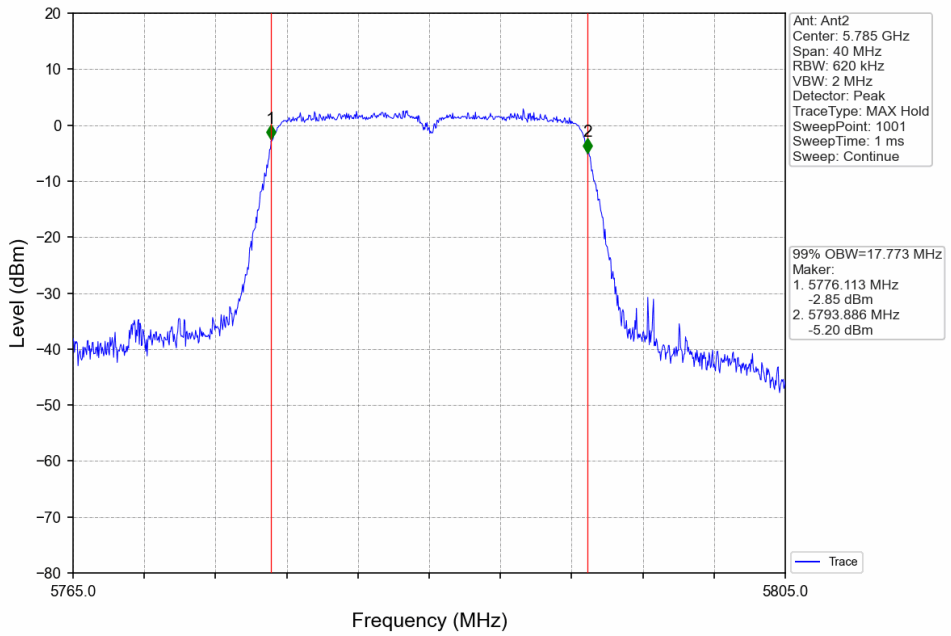
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



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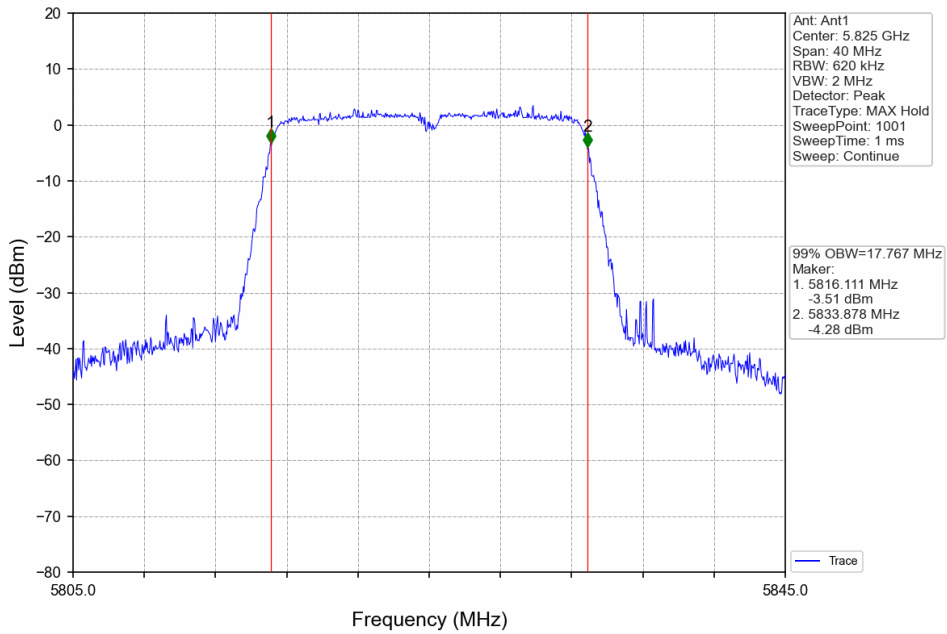
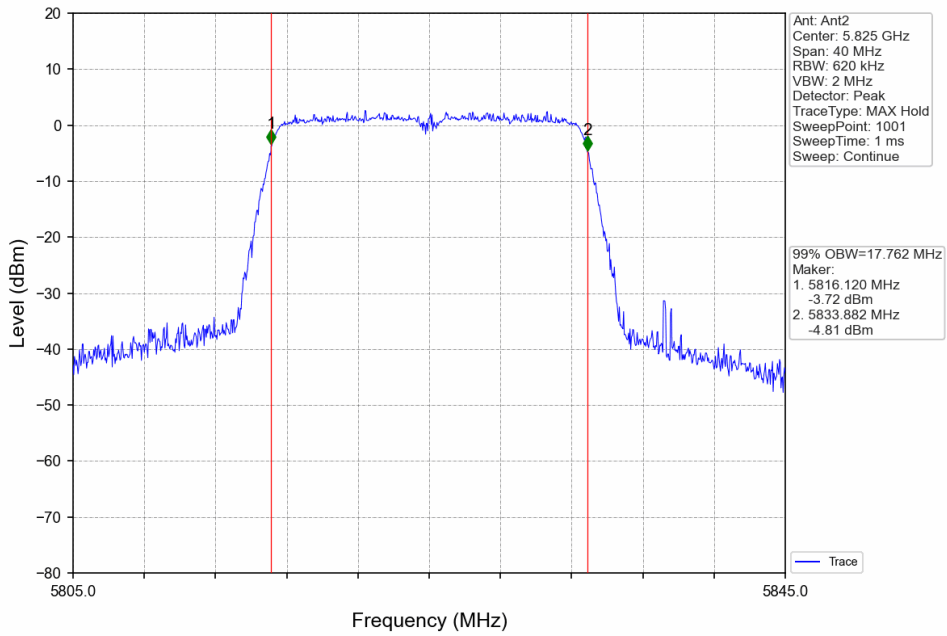
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



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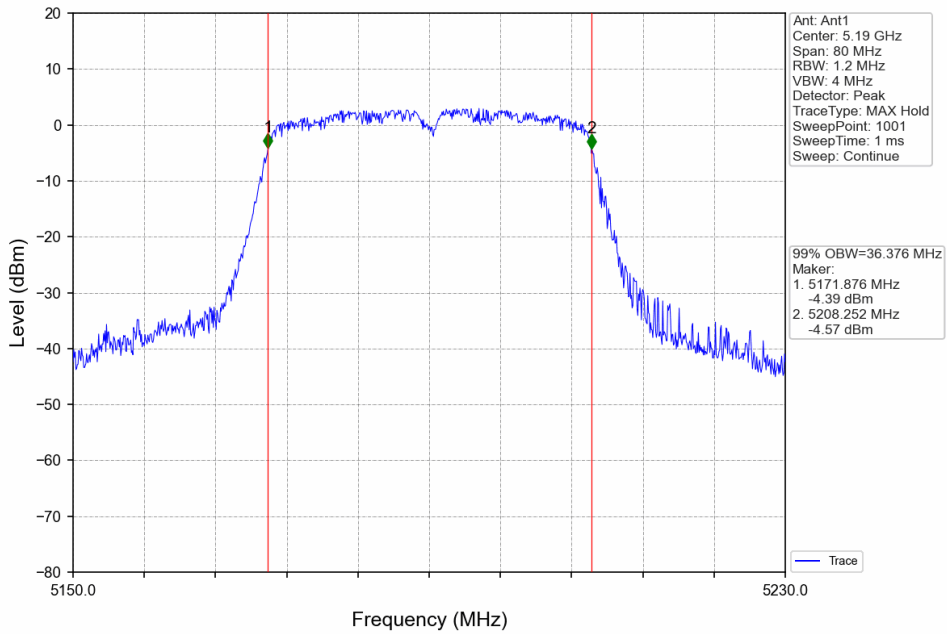
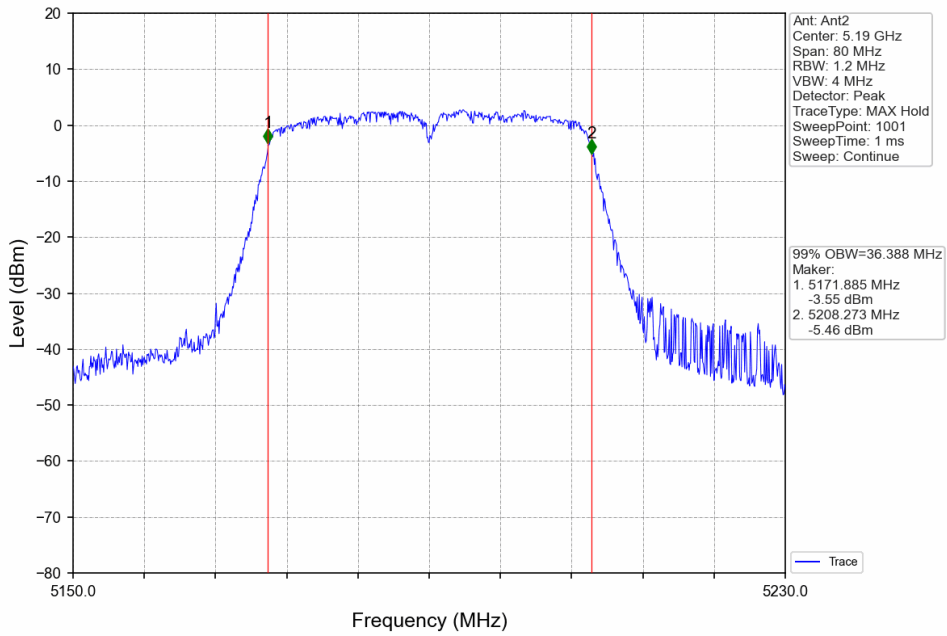
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



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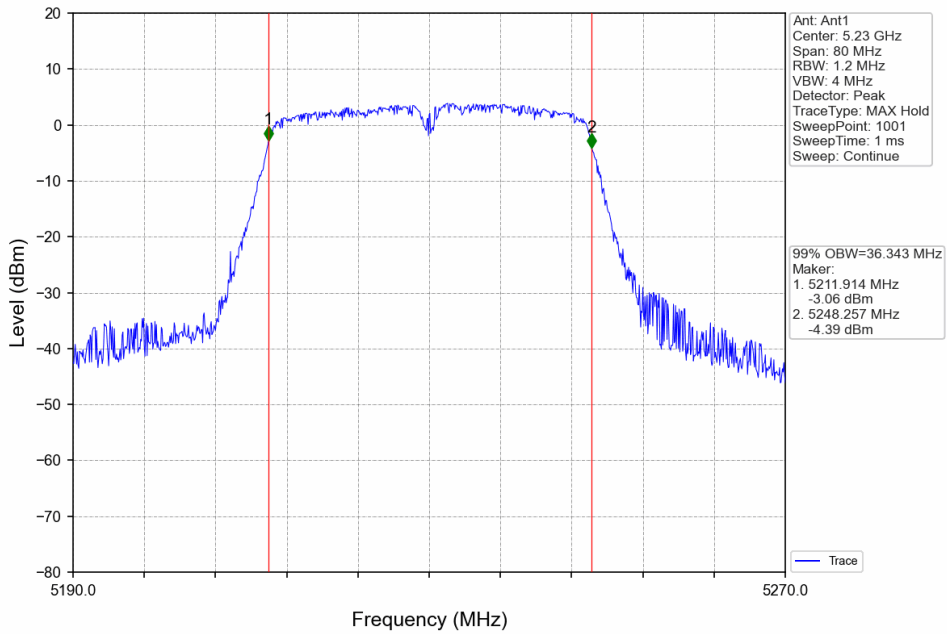
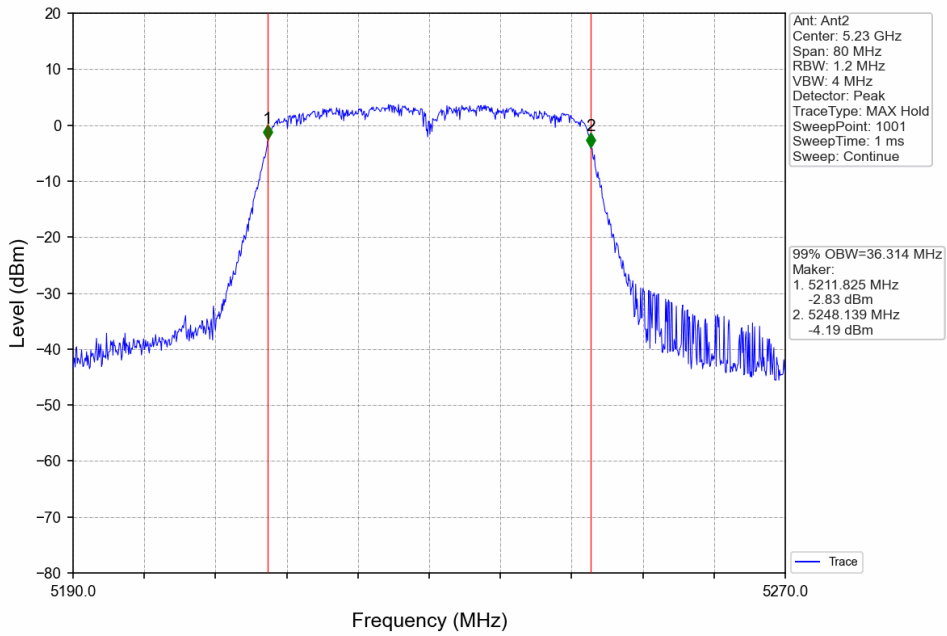
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



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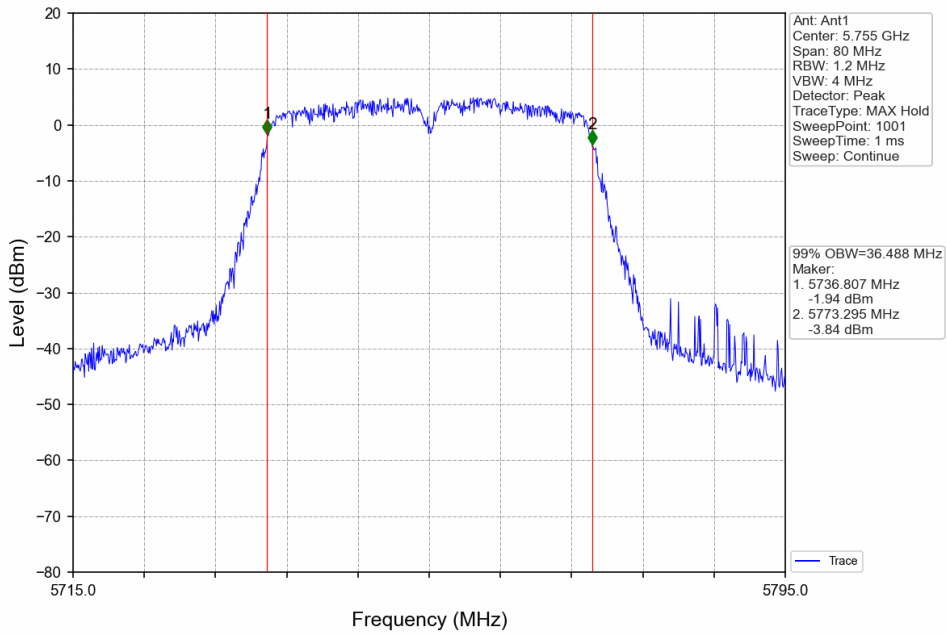
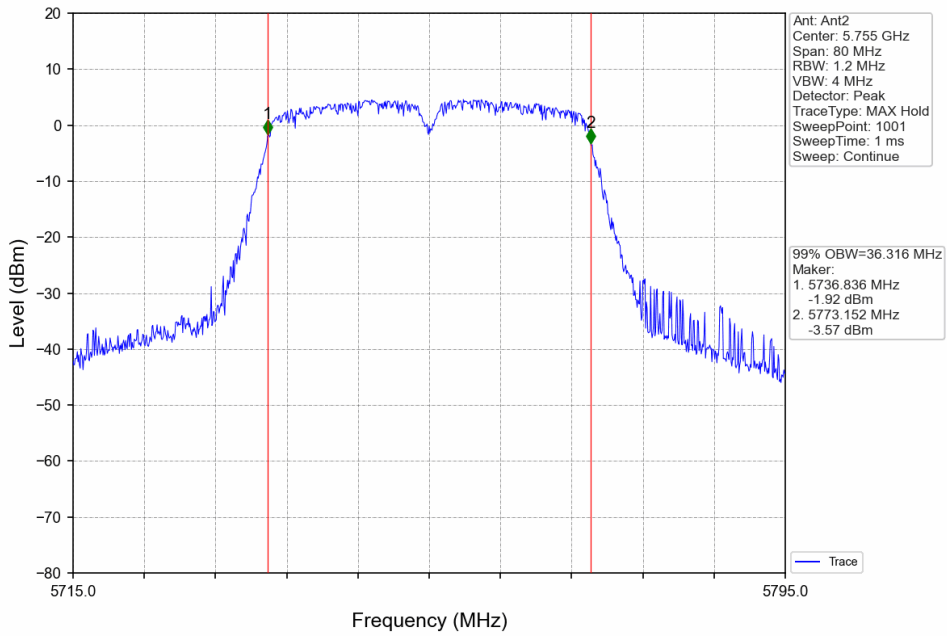
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



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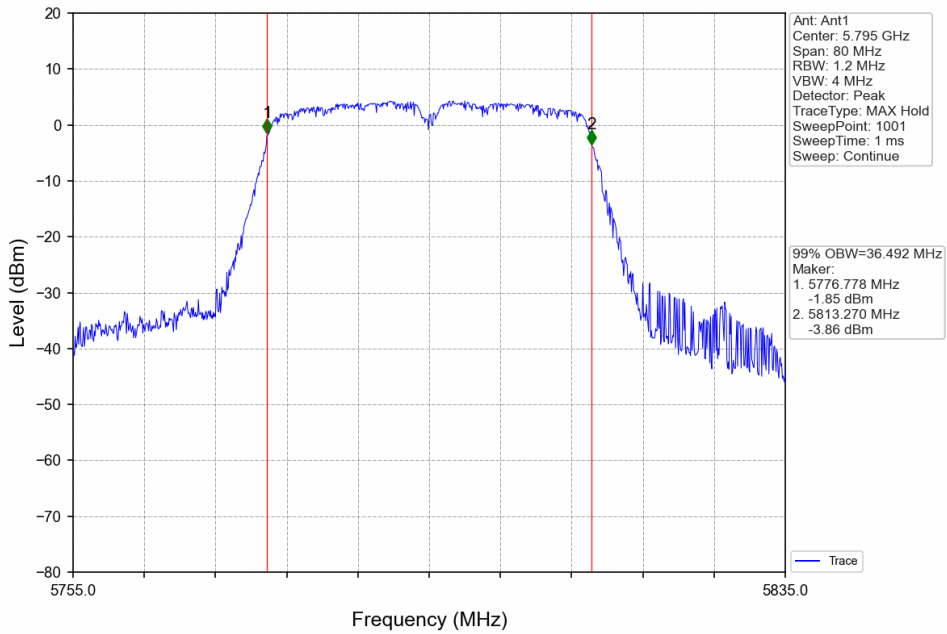
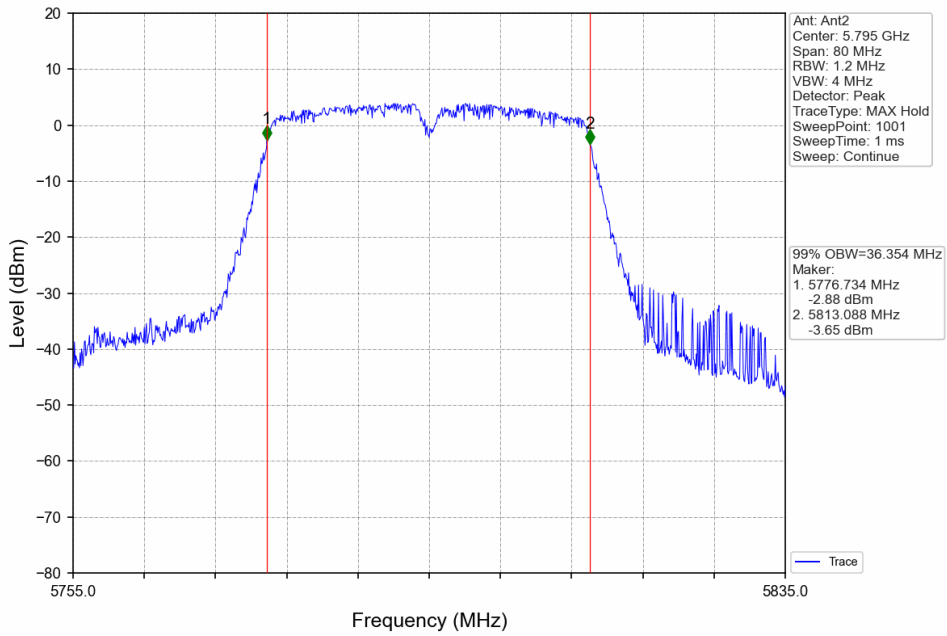
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



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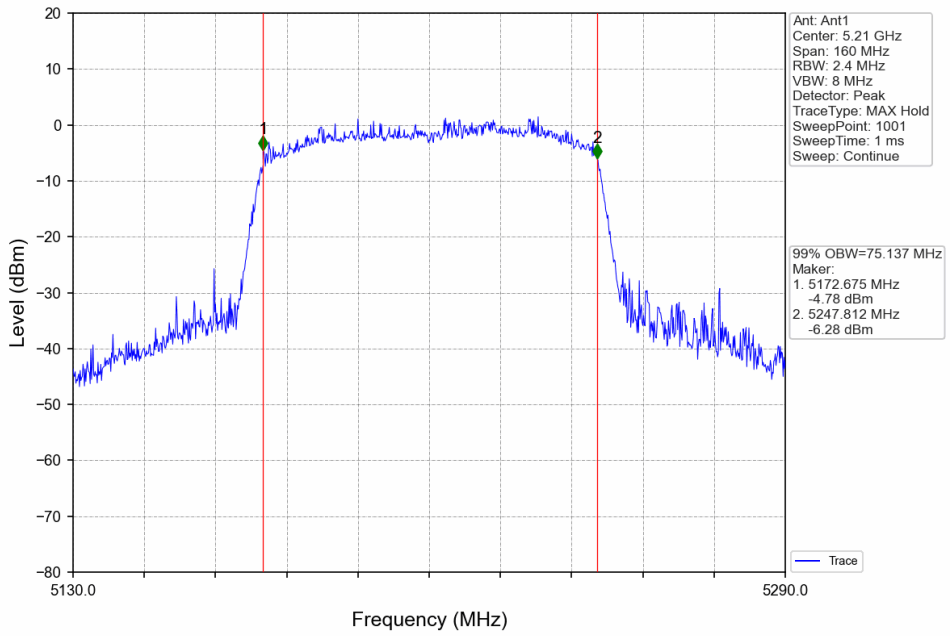
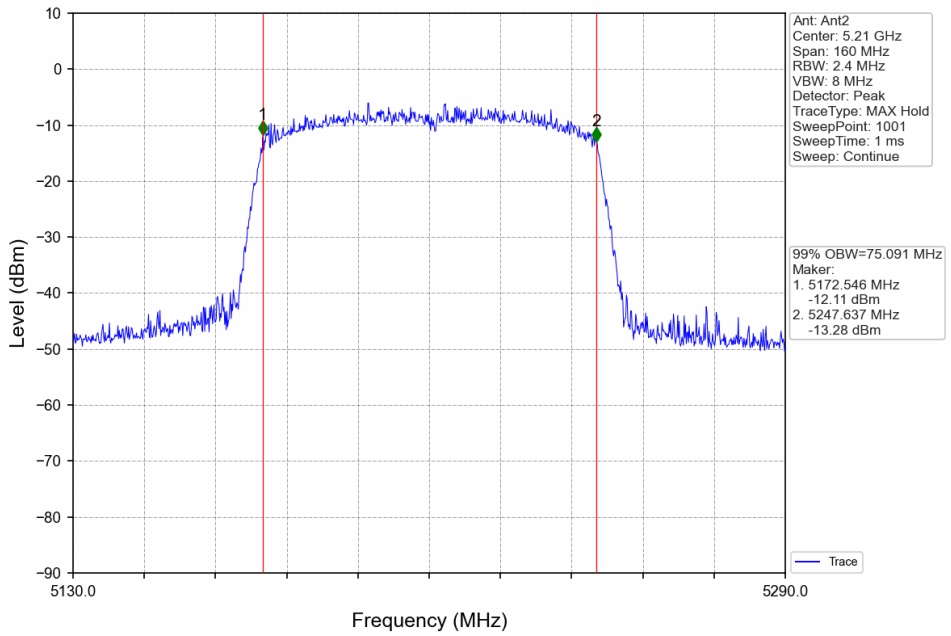
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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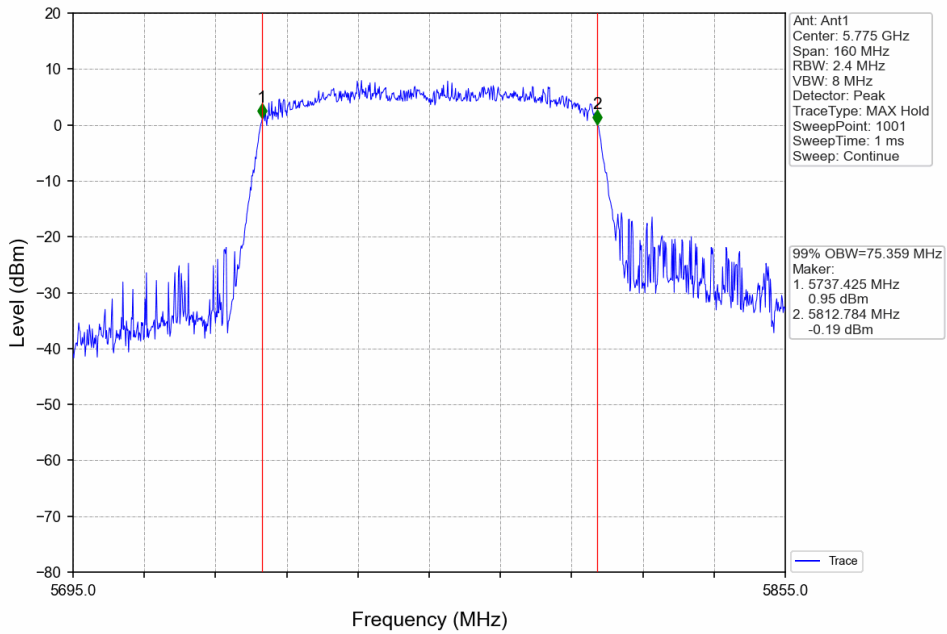
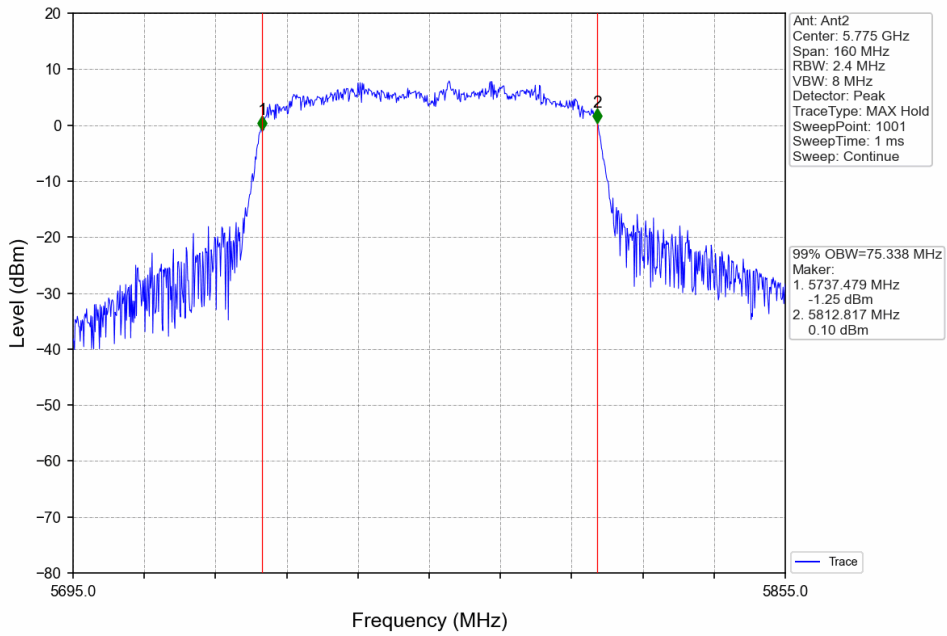
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.586	>=0.5	Pass
			2	17.588	>=0.5	Pass
		5785	1	17.570	>=0.5	Pass
			2	17.560	>=0.5	Pass
		5825	1	17.558	>=0.5	Pass
			2	17.636	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.609	>=0.5	Pass
			2	17.586	>=0.5	Pass
		5785	1	17.591	>=0.5	Pass
			2	17.326	>=0.5	Pass
		5825	1	17.559	>=0.5	Pass
			2	17.606	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	33.891	>=0.5	Pass
			2	33.904	>=0.5	Pass
		5795	1	34.211	>=0.5	Pass
			2	35.090	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.573	>=0.5	Pass
			2	17.572	>=0.5	Pass
		5785	1	17.560	>=0.5	Pass
			2	17.319	>=0.5	Pass
		5825	1	17.567	>=0.5	Pass
			2	17.554	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	34.098	>=0.5	Pass
			2	35.140	>=0.5	Pass
		5795	1	35.129	>=0.5	Pass
			2	31.615	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	73.831	>=0.5	Pass
			2	74.996	>=0.5	Pass

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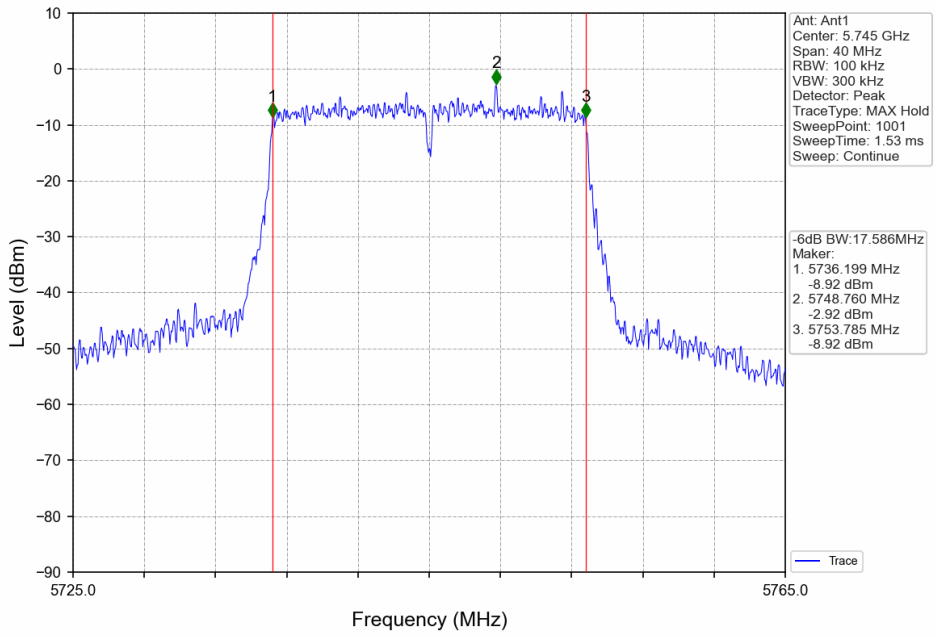
2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV

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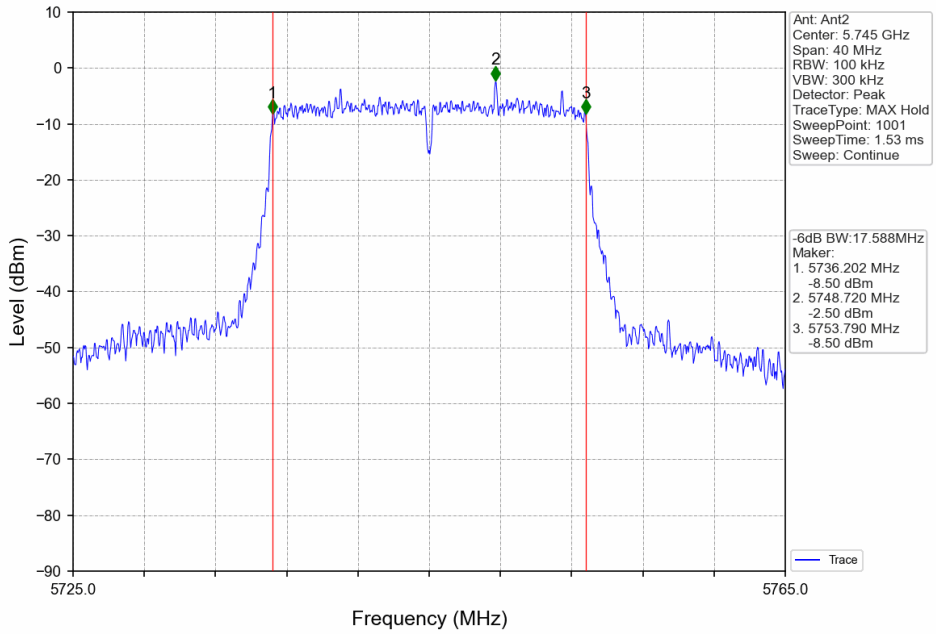

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