1. Bandwidth

1.1 OBW

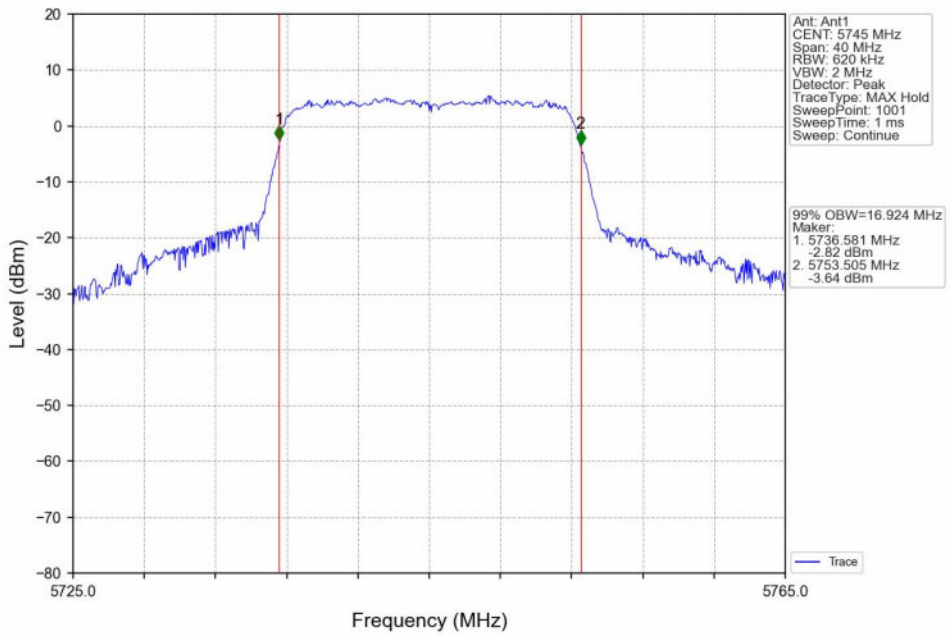
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5745	1	16.924	Pass
		5785	1	17.412	Pass
		5825	1	17.629	Pass
802.11n (HT20)	SISO	5745	1	16.918	Pass
		5785	1	18.151	Pass
		5825	1	18.363	Pass
802.11n (HT40)	SISO	5755	1	36.725	Pass
		5795	1	36.757	Pass
802.11ac (VHT20)	SISO	5745	1	17.976	Pass
		5785	1	18.165	Pass
		5825	1	18.246	Pass
802.11ac (VHT40)	SISO	5755	1	36.725	Pass
		5795	1	36.737	Pass
802.11ac (VHT80)	SISO	5775	1	76.175	Pass

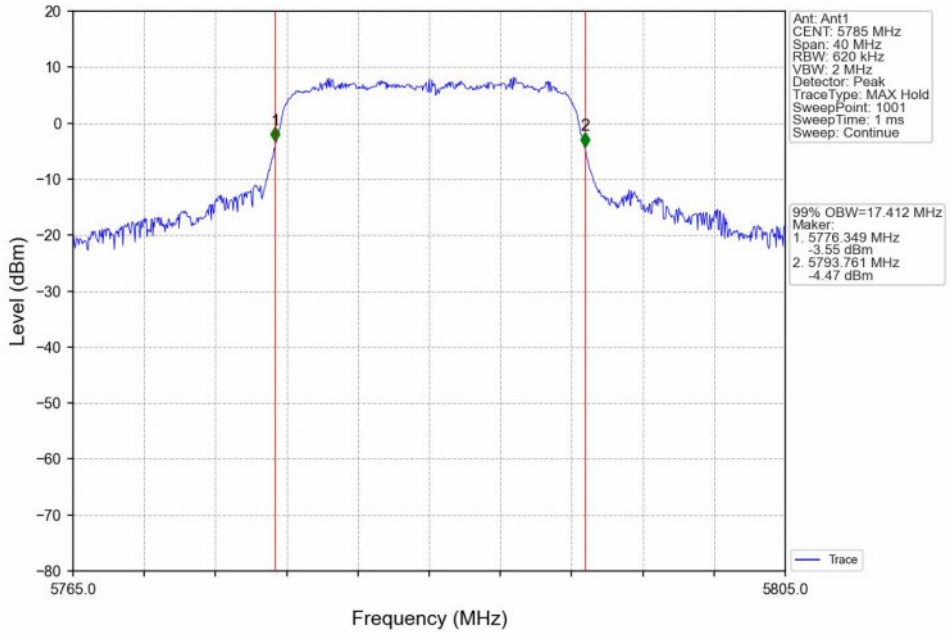
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5745	2	16.850	Pass
		5785	2	17.270	Pass
		5825	2	17.127	Pass
802.11n (HT20)	SISO	5745	2	17.952	Pass
		5785	2	17.925	Pass
		5825	2	18.060	Pass
802.11n (HT40)	SISO	5755	2	36.762	Pass
		5795	2	36.622	Pass
802.11ac (VHT20)	SISO	5745	2	17.905	Pass
		5785	2	17.939	Pass
		5825	2	18.089	Pass
802.11ac (VHT40)	SISO	5755	2	36.789	Pass
		5795	2	36.775	Pass
802.11ac (VHT80)	SISO	5775	2	75.550	Pass

1.1.2 Test Graph

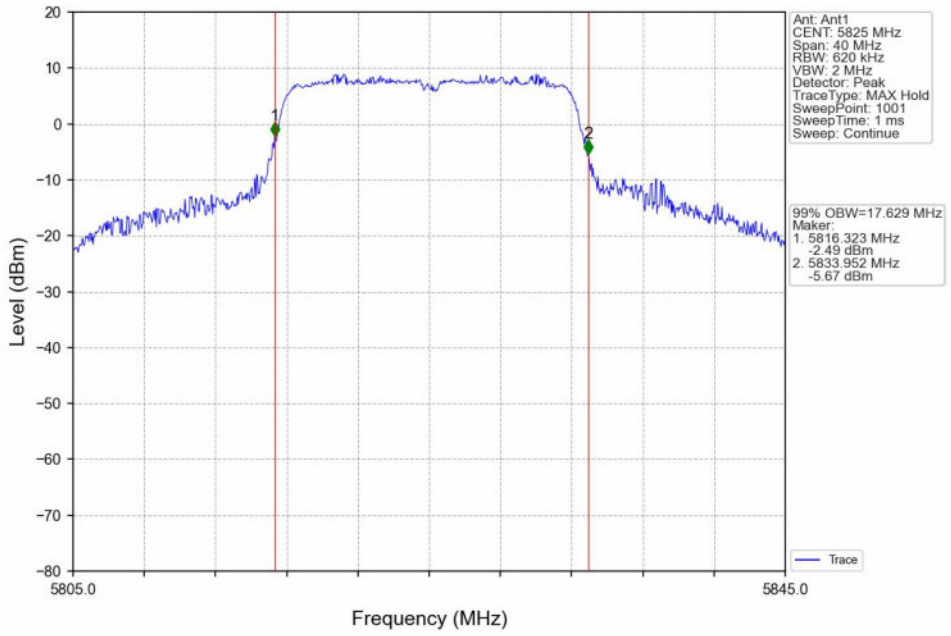
802.11a_LCH_5745MHz_Ant1_NTNV



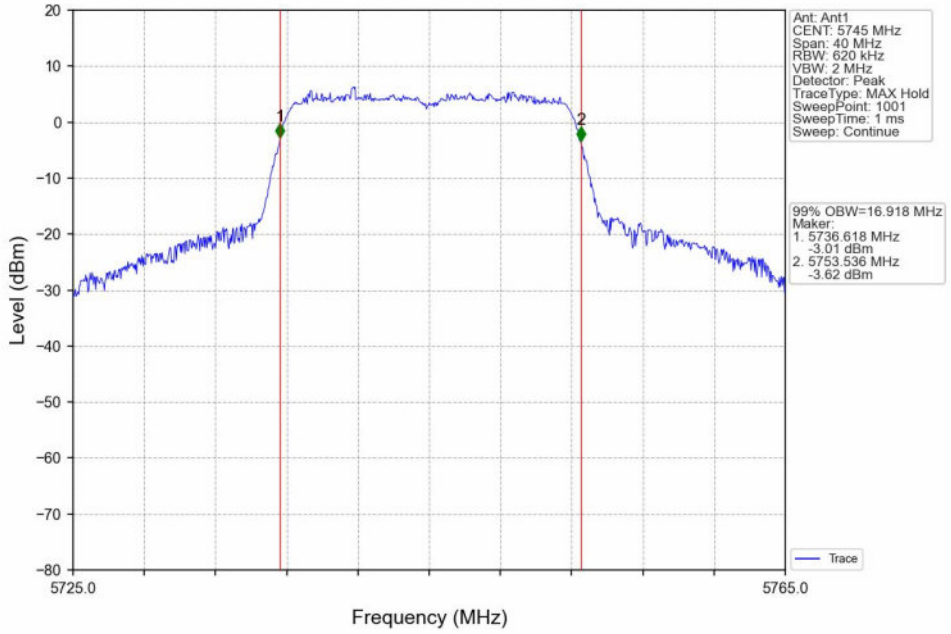
802.11a_MCH_5785MHz_Ant1_NTNV



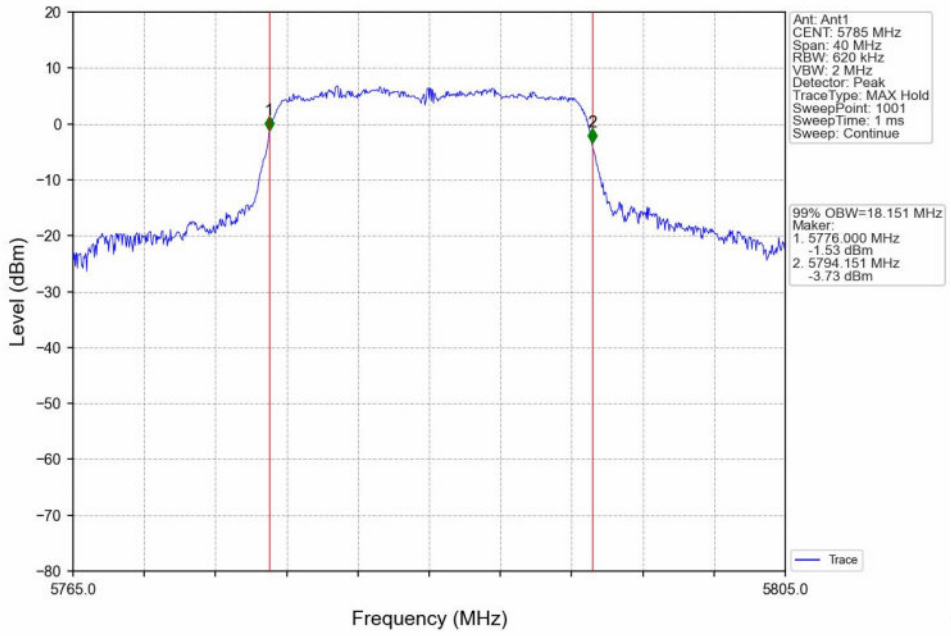
802.11a_HCH_5825MHz_Ant1_NTNV



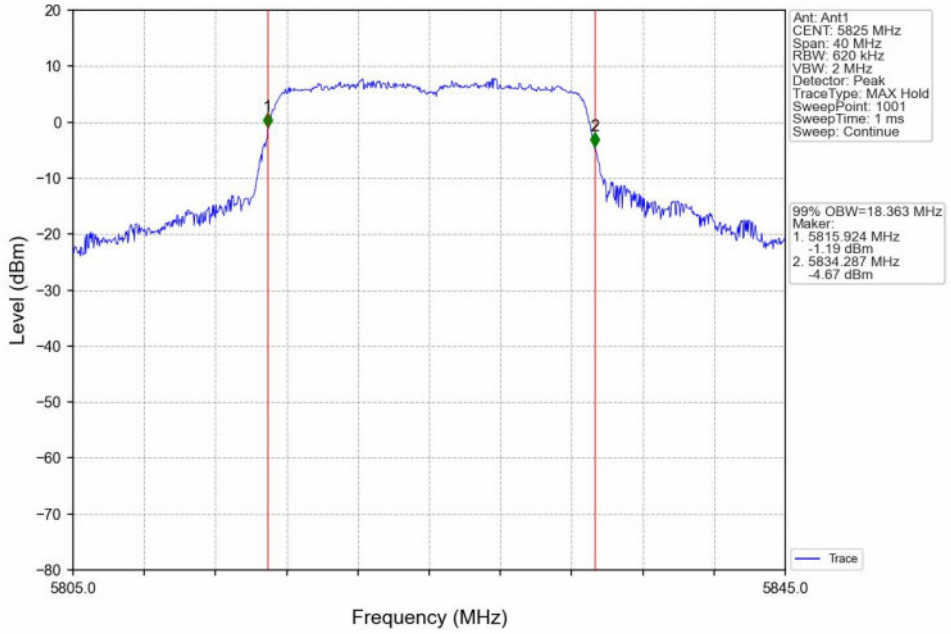
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



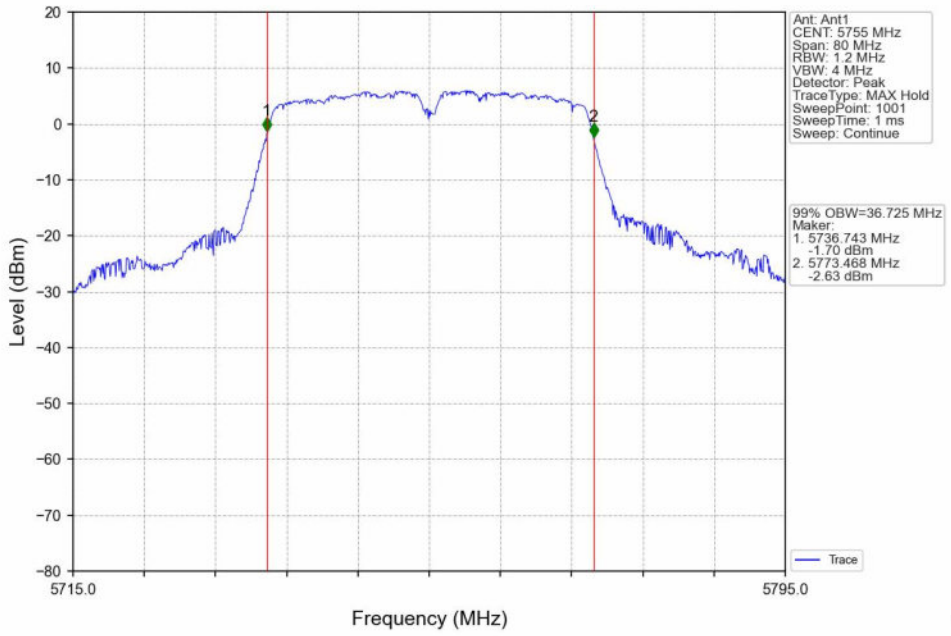
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



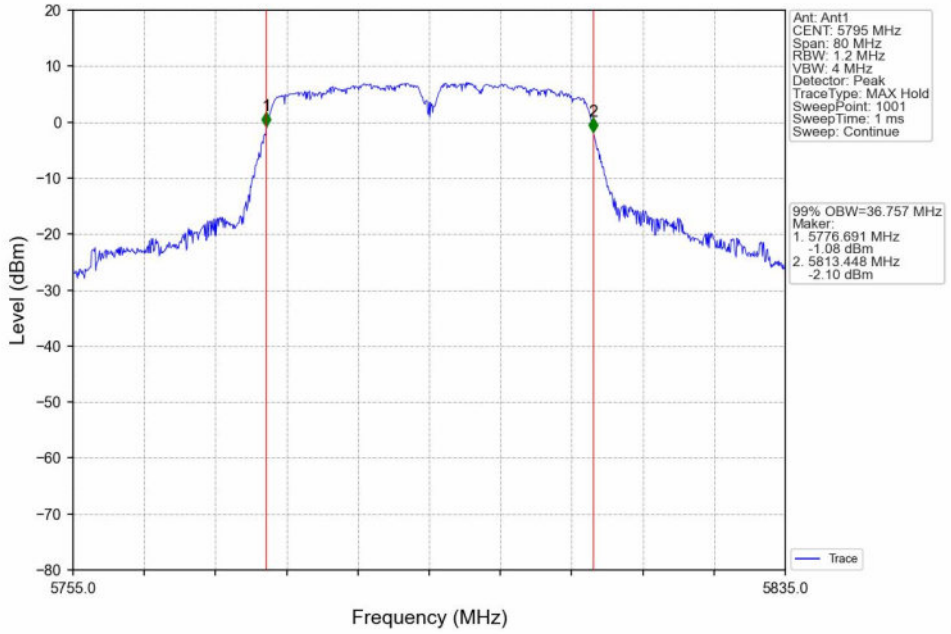
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



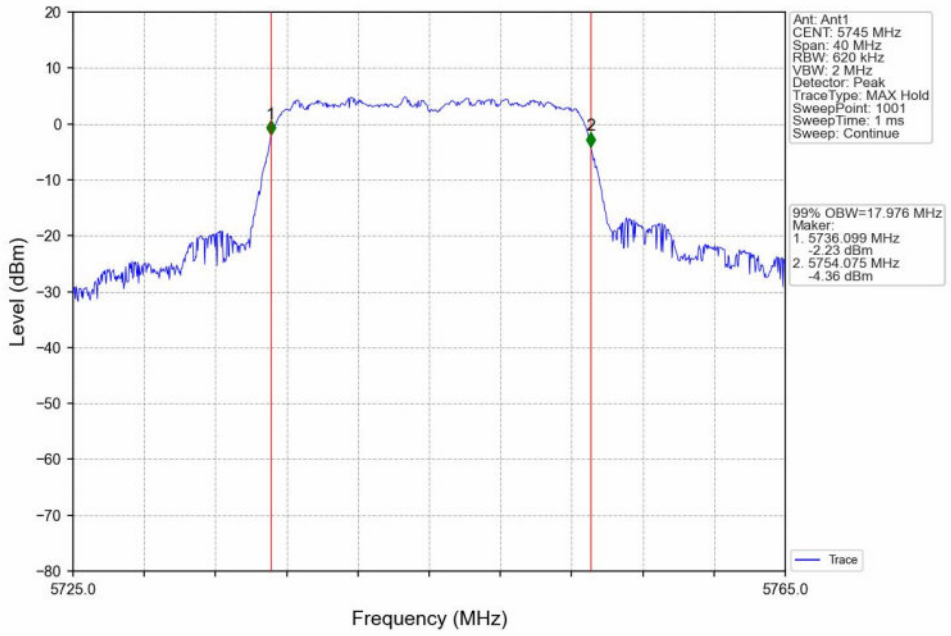
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



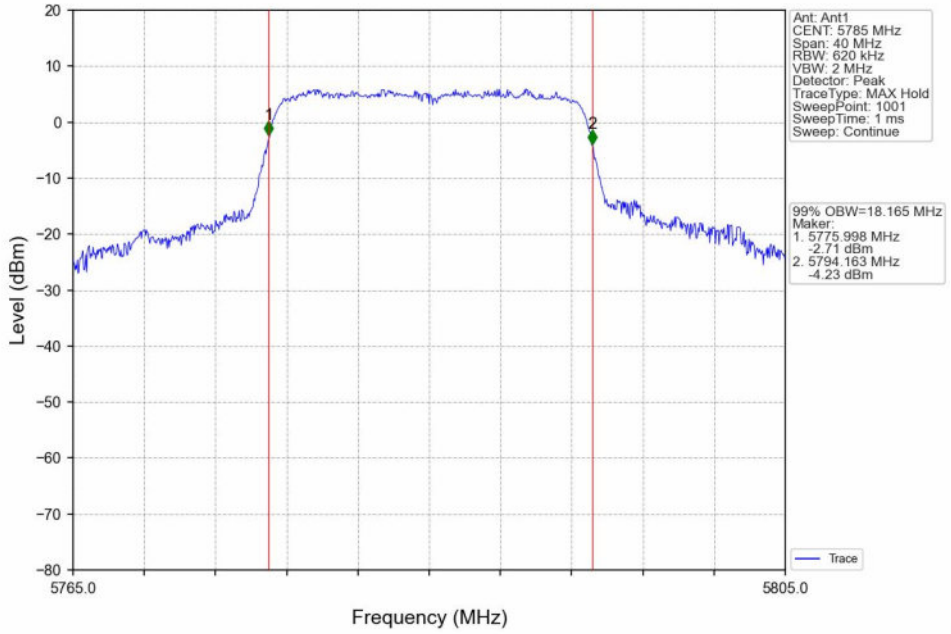
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



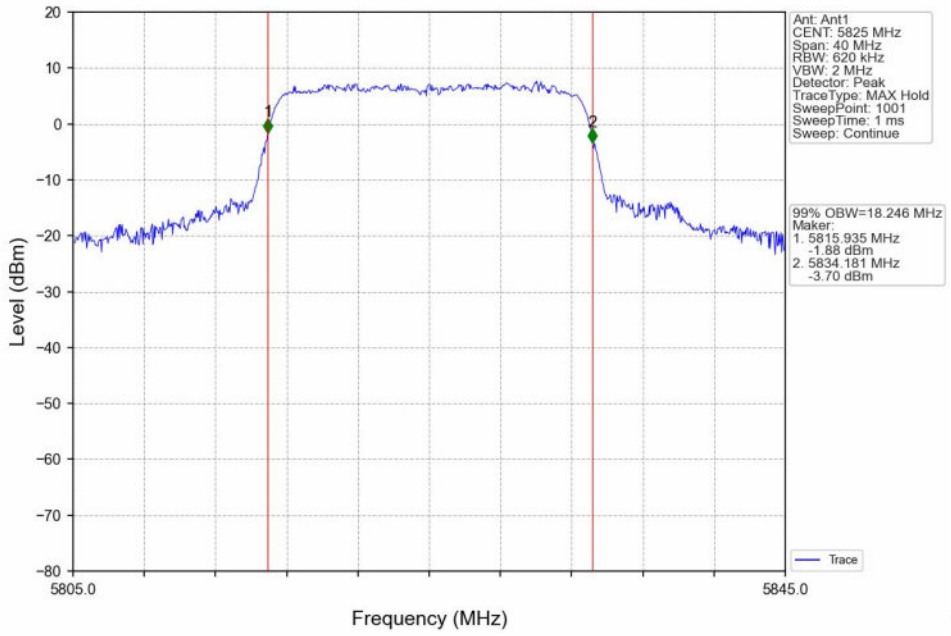
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



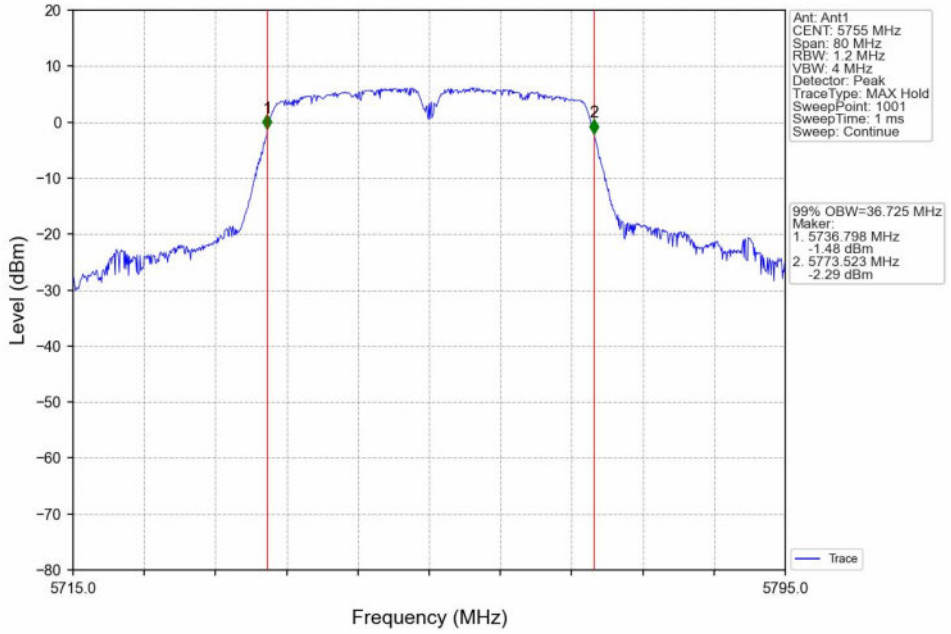
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



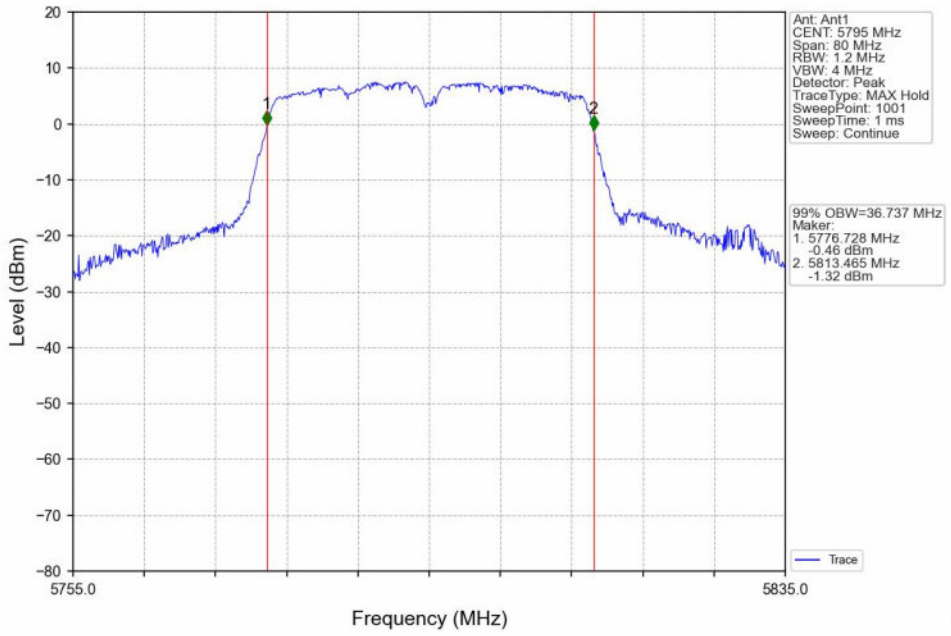
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



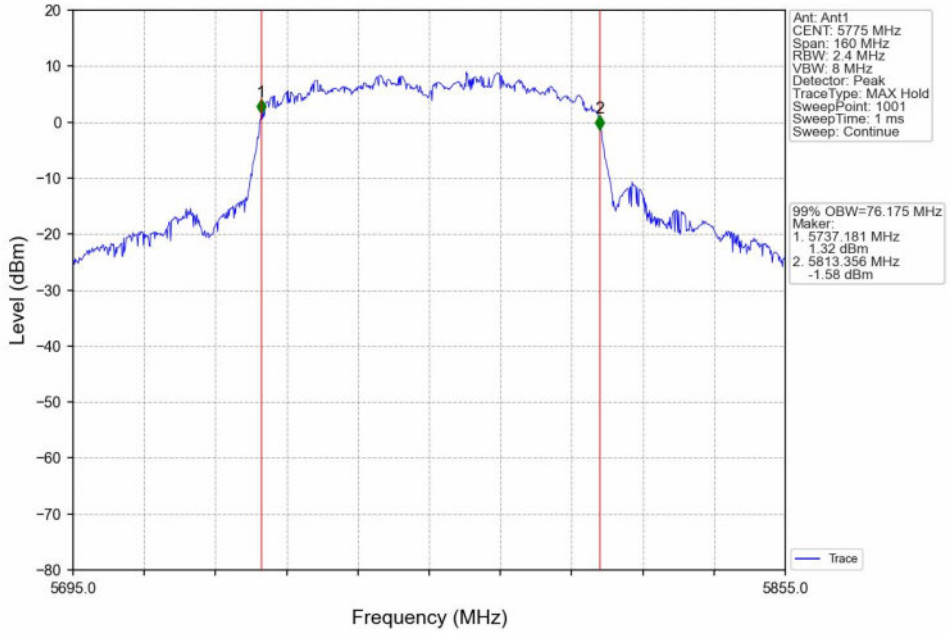
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



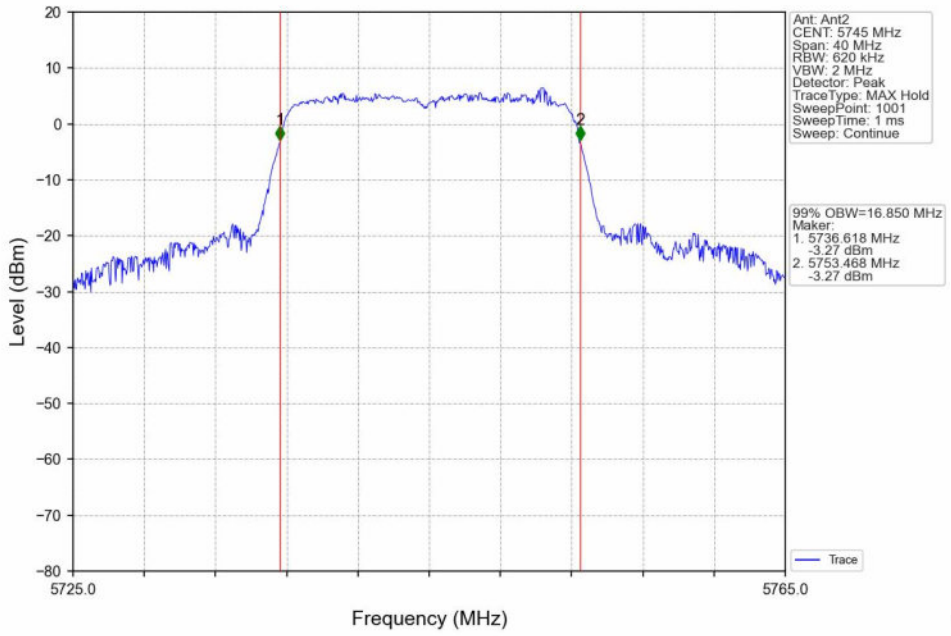
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



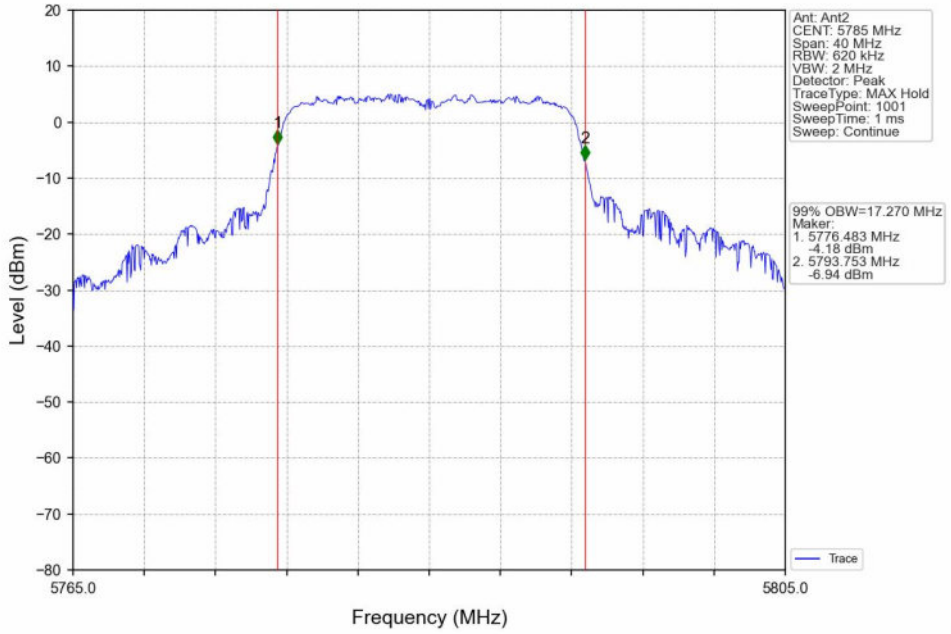
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



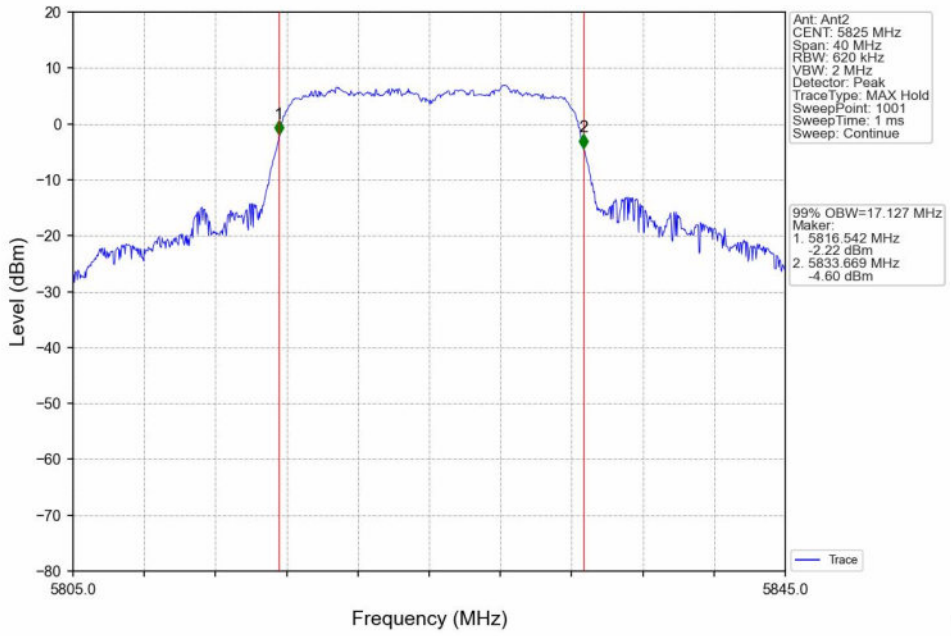
802.11a_LCH_5745MHz_Ant2_NTNV



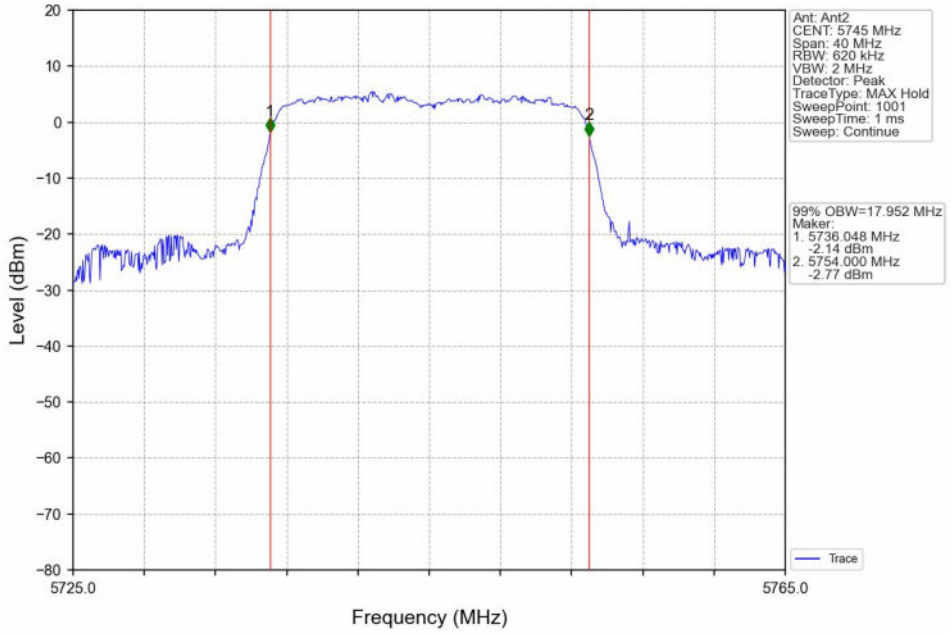
802.11a_MCH_5785MHz_Ant2_NTNV



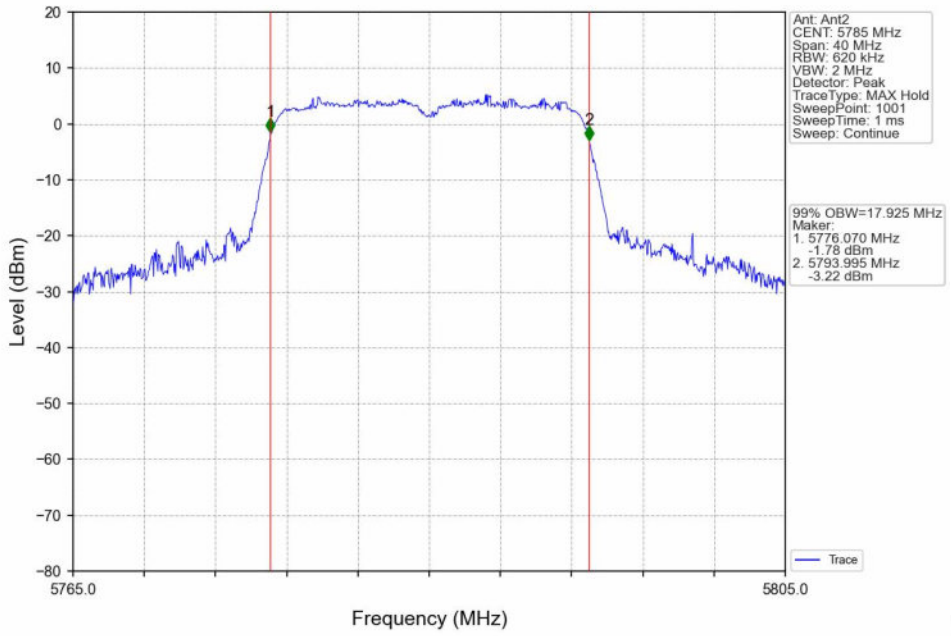
802.11a_HCH_5825MHz_Ant2_NTNV



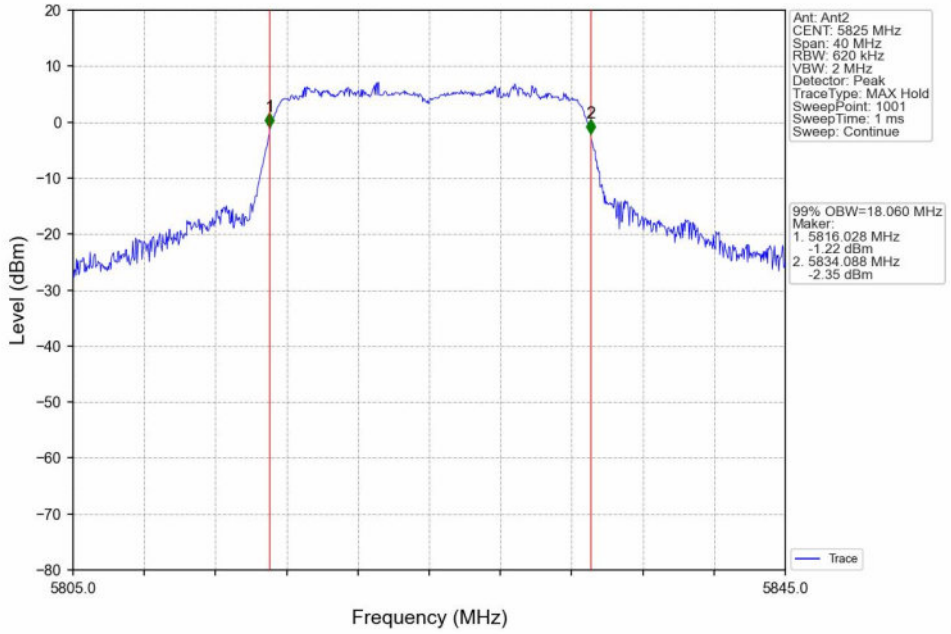
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



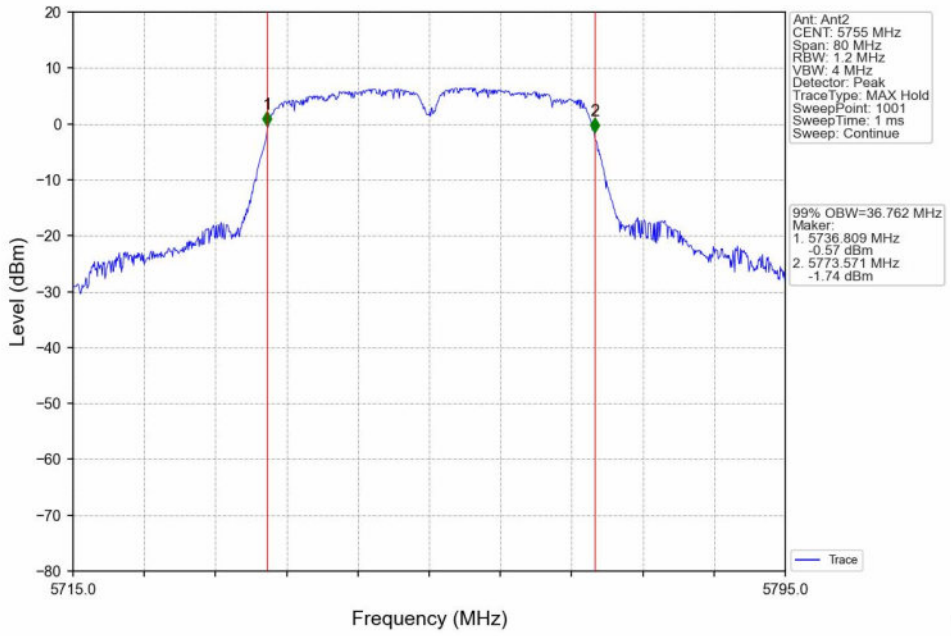
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



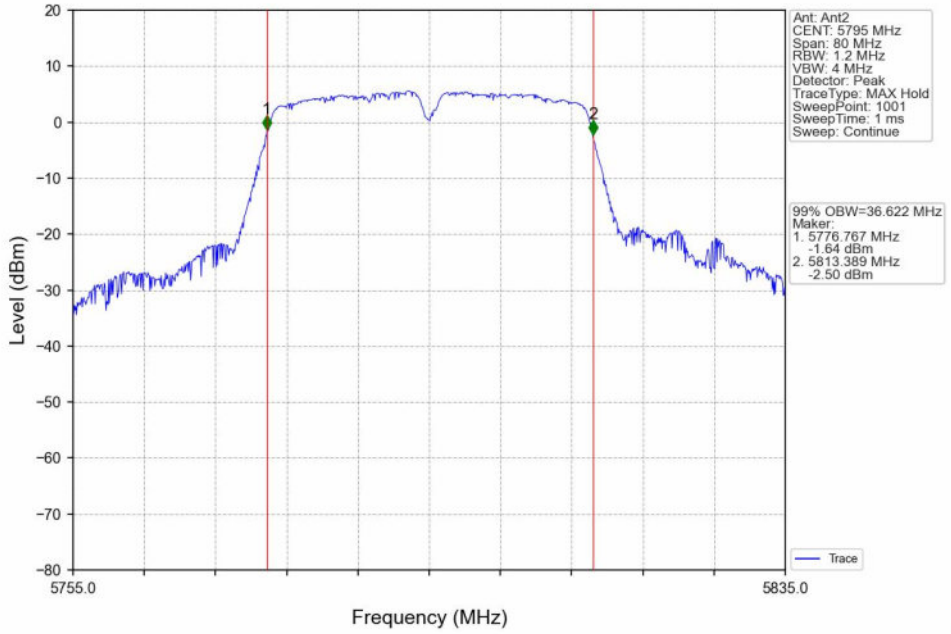
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



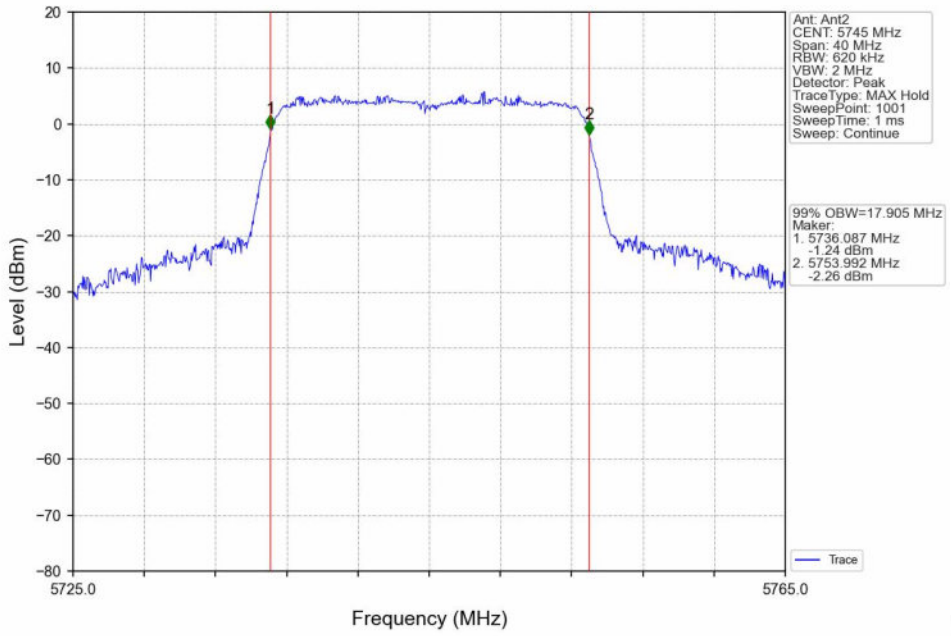
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



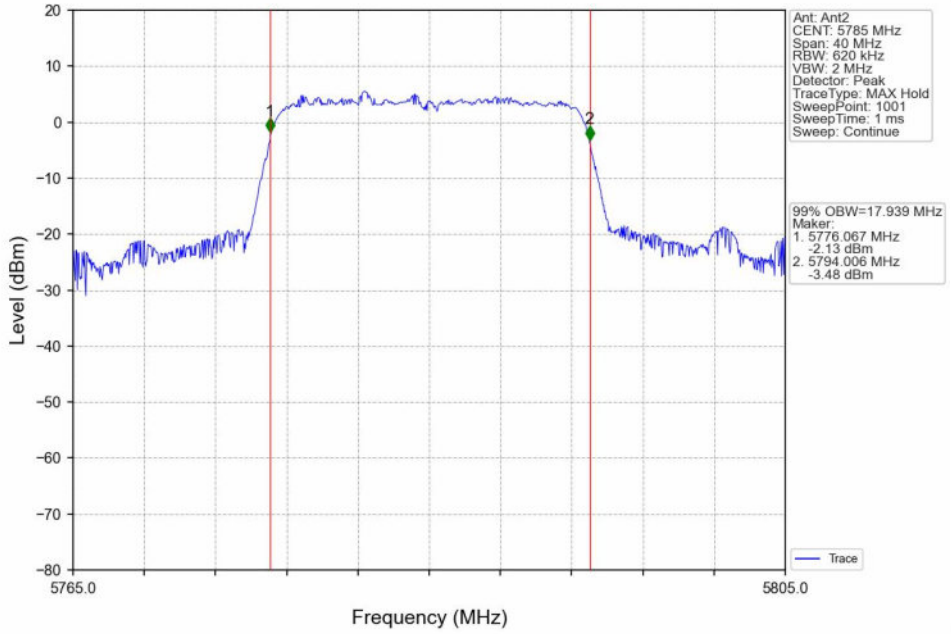
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



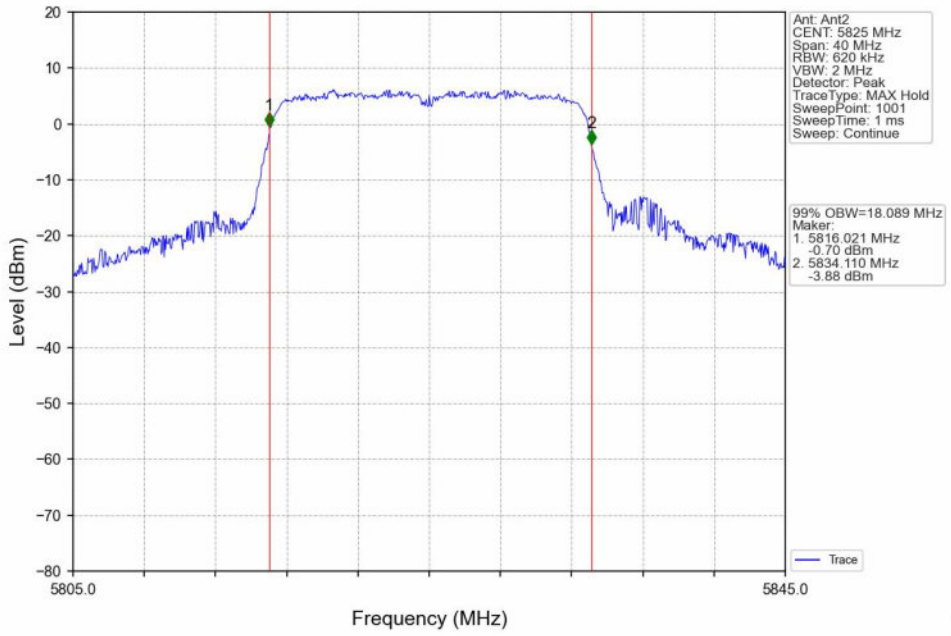
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



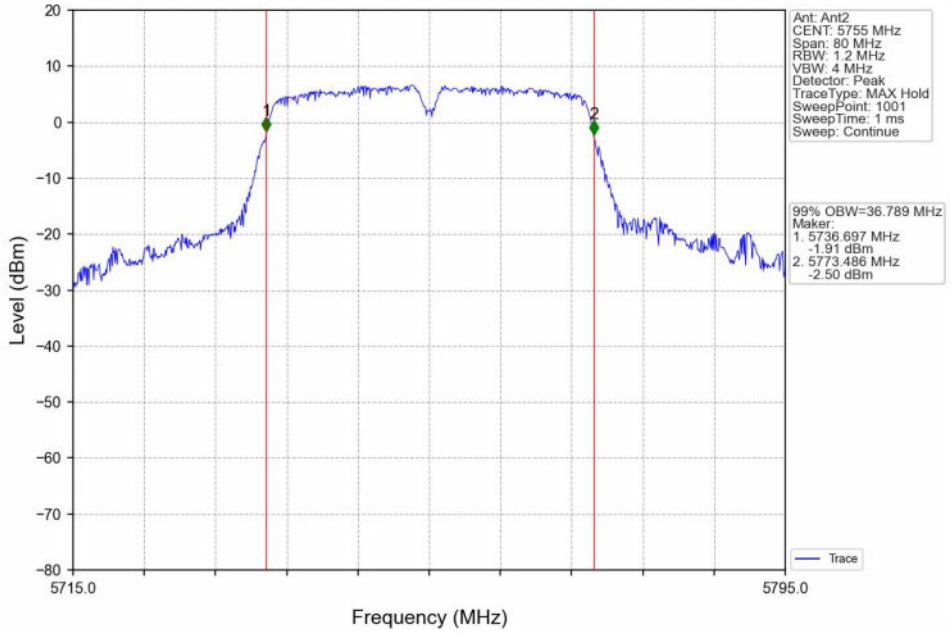
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



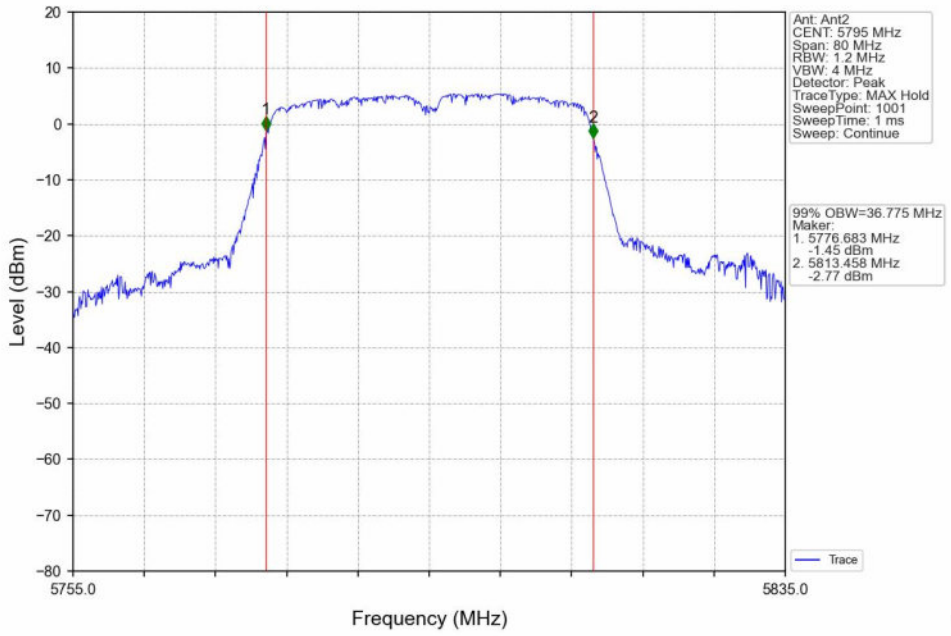
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



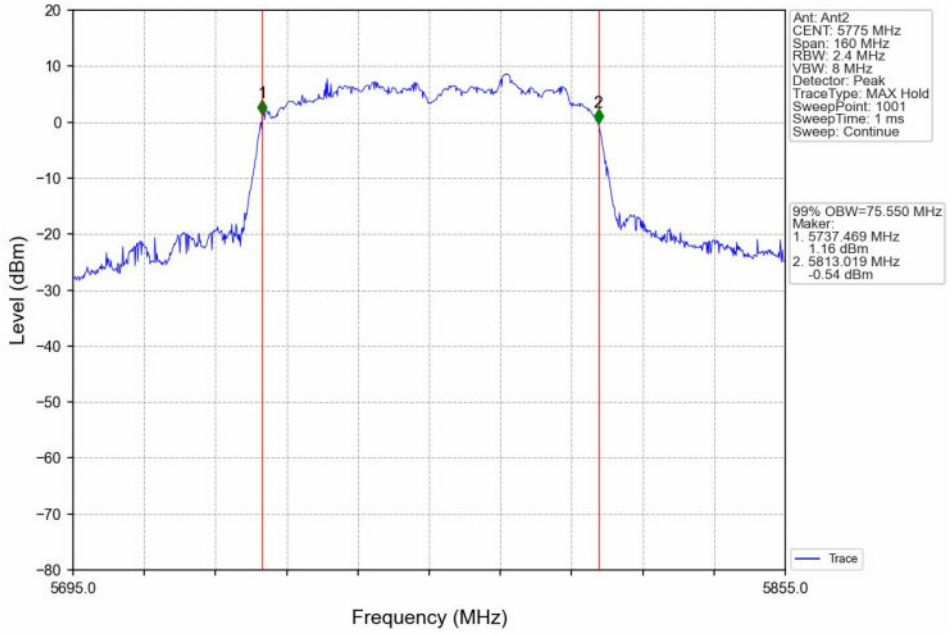
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



1.2 6dB BW

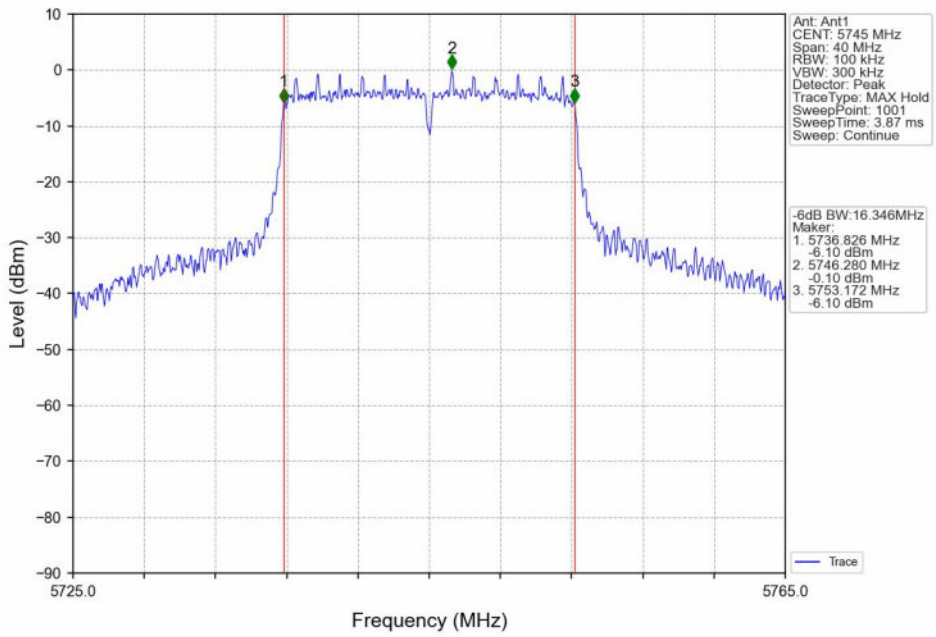
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.346	>=0.5	Pass
		5785	1	16.347	>=0.5	Pass
		5825	1	16.346	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	16.336	>=0.5	Pass
		5785	1	17.540	>=0.5	Pass
		5825	1	17.063	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.180	>=0.5	Pass
		5795	1	35.197	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.539	>=0.5	Pass
		5785	1	17.041	>=0.5	Pass
		5825	1	17.570	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.323	>=0.5	Pass
		5795	1	35.192	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.095	>=0.5	Pass

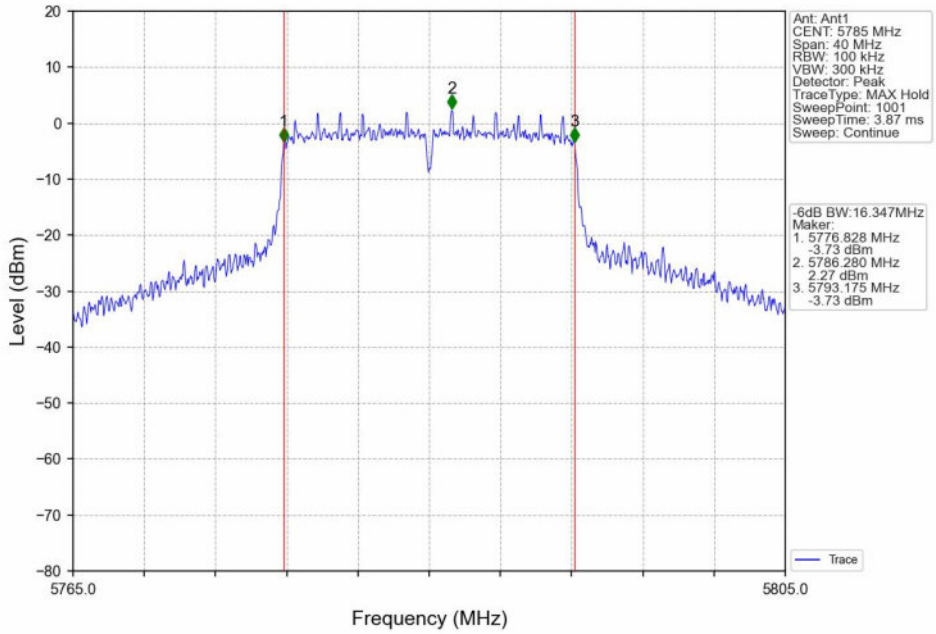
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	2	16.334	>=0.5	Pass
		5785	2	16.368	>=0.5	Pass
		5825	2	16.330	>=0.5	Pass
802.11n (HT20)	SISO	5745	2	17.538	>=0.5	Pass
		5785	2	17.548	>=0.5	Pass
		5825	2	17.305	>=0.5	Pass
802.11n (HT40)	SISO	5755	2	35.207	>=0.5	Pass
		5795	2	35.366	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	2	17.580	>=0.5	Pass
		5785	2	17.313	>=0.5	Pass
		5825	2	17.570	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	2	35.213	>=0.5	Pass
		5795	2	35.188	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	2	75.104	>=0.5	Pass

1.2.2 Test Graph

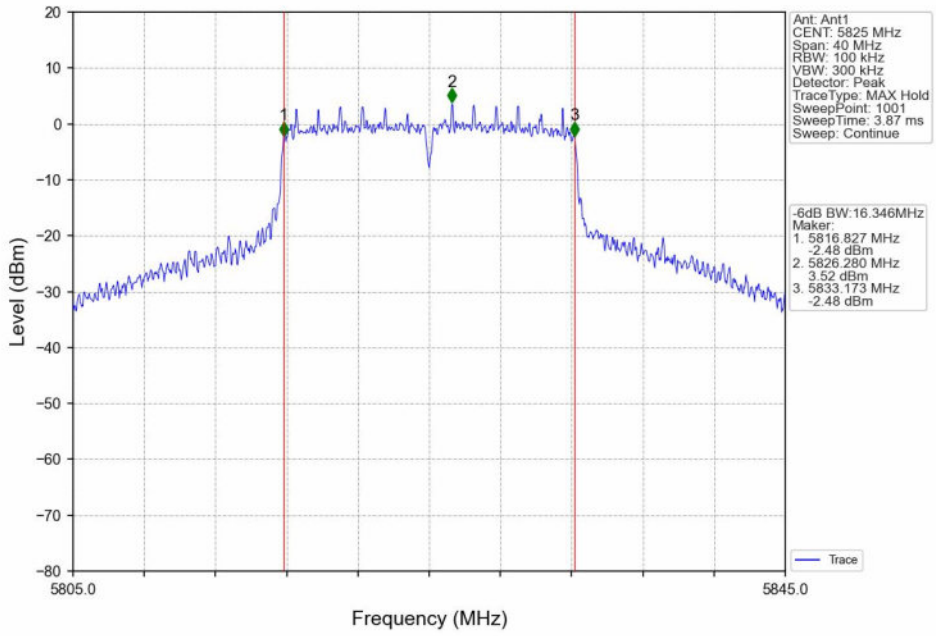
802.11a_LCH_5745MHz_Ant1_NTNV



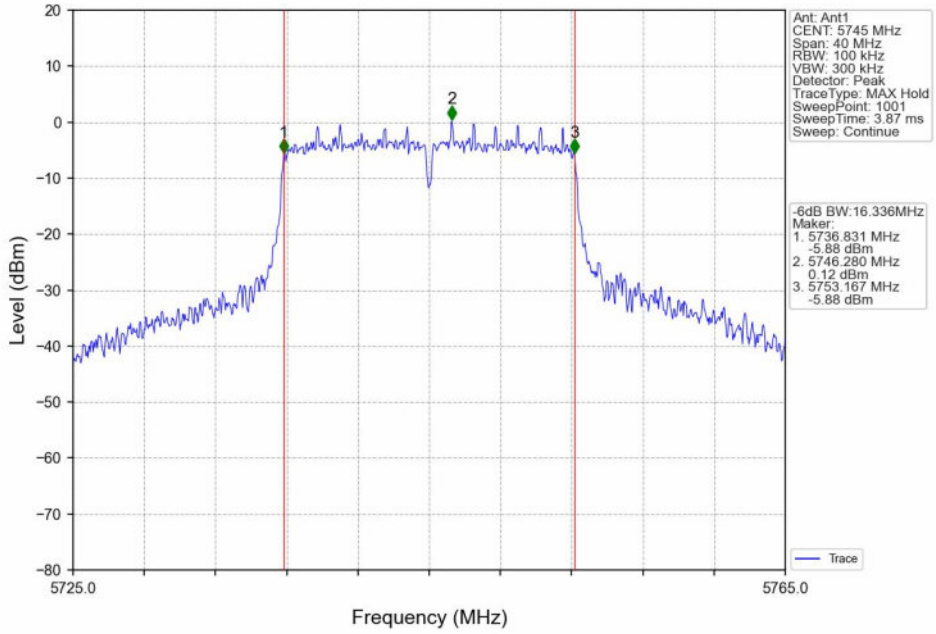
802.11a_MCH_5785MHz_Ant1_NTNV



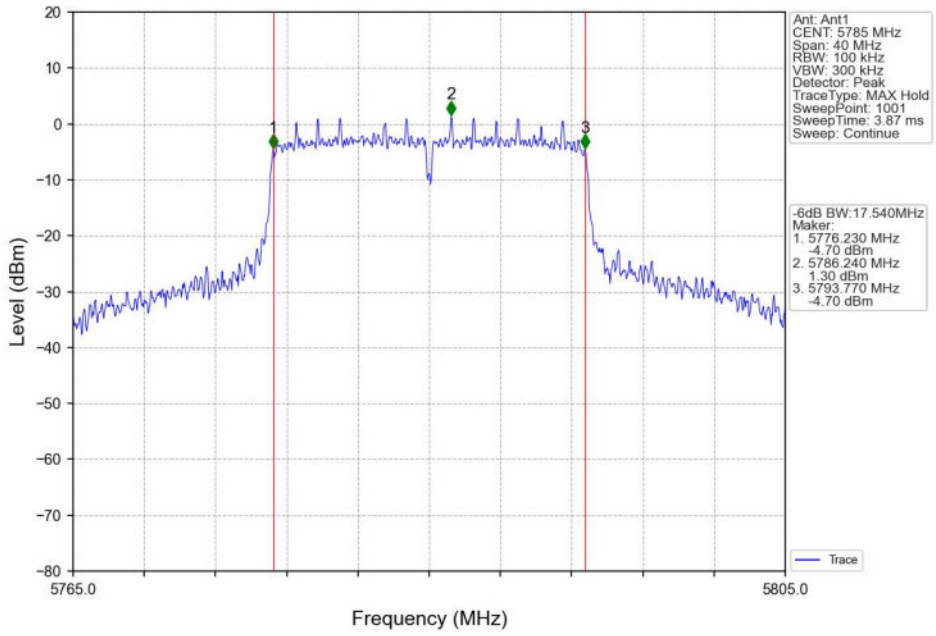
802.11a_HCH_5825MHz_Ant1_NTNV



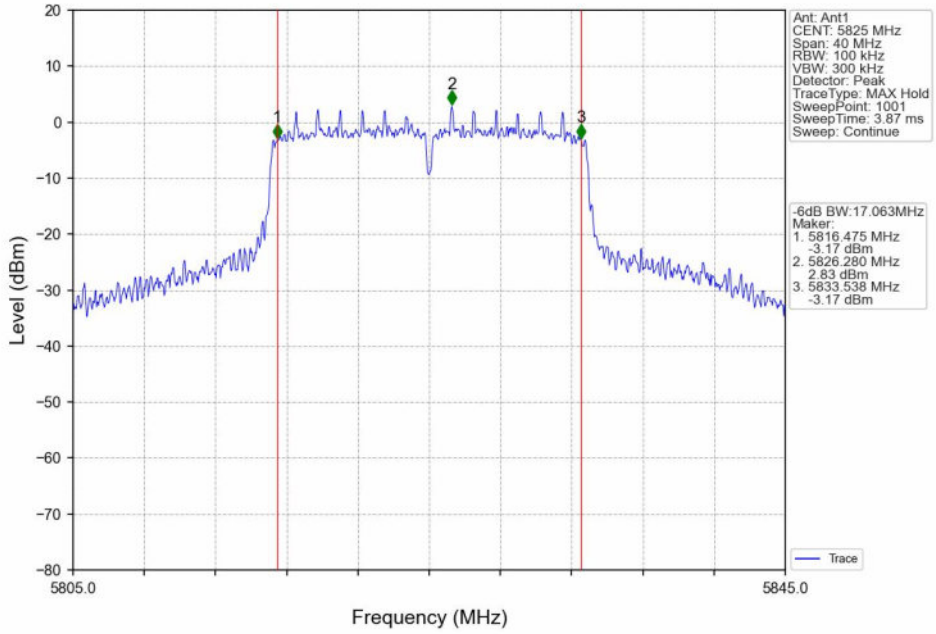
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



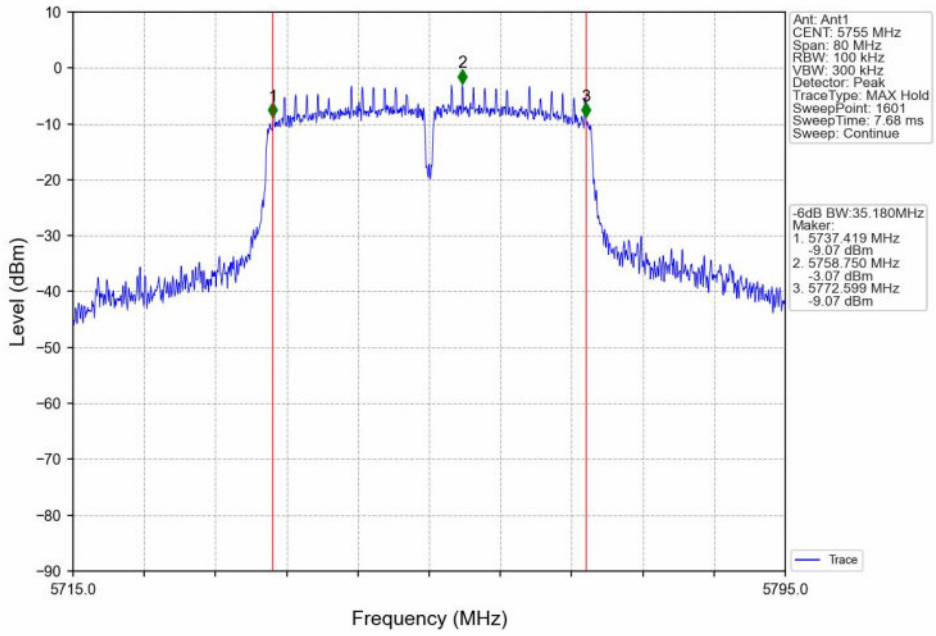
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



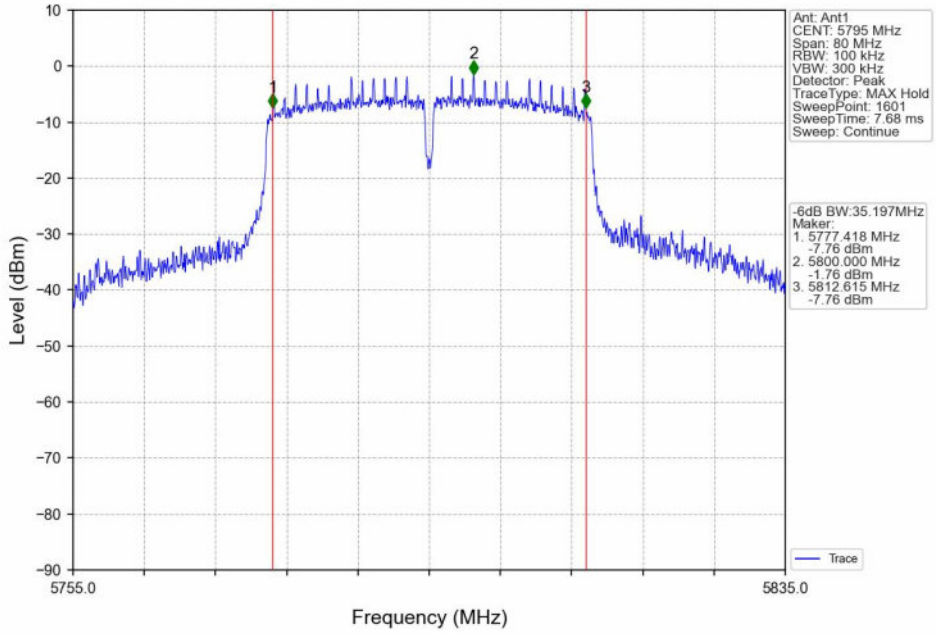
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



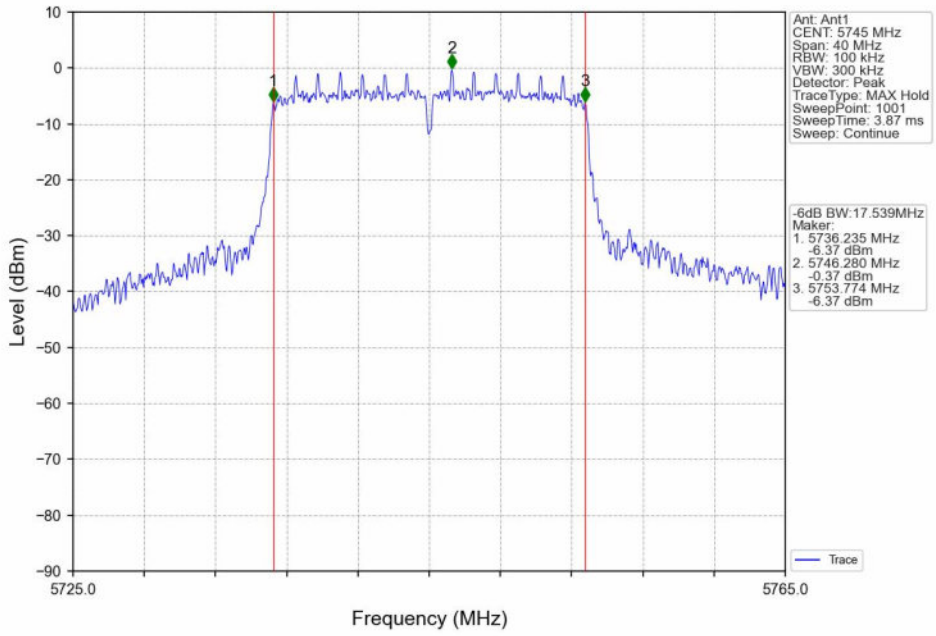
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



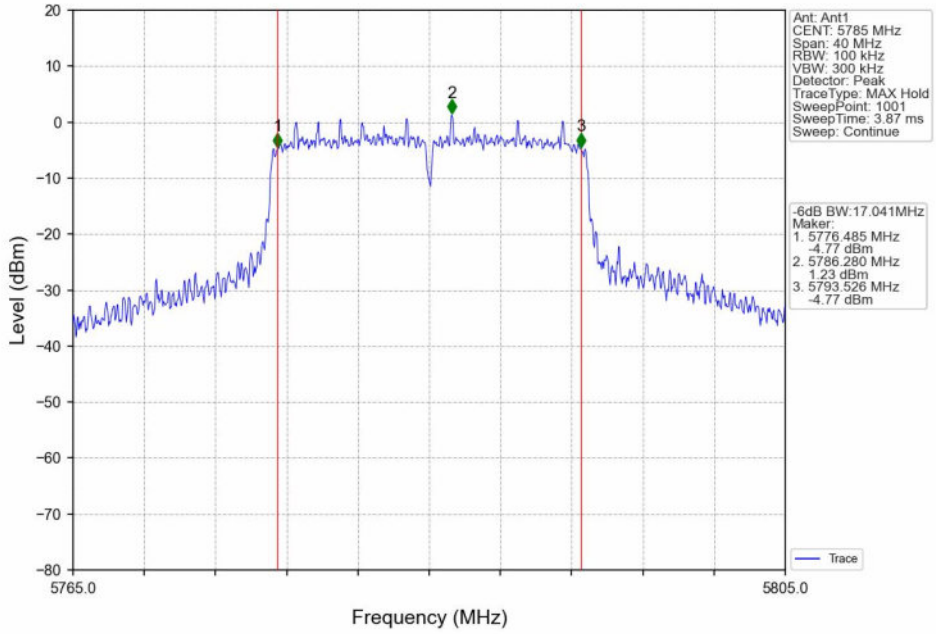
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



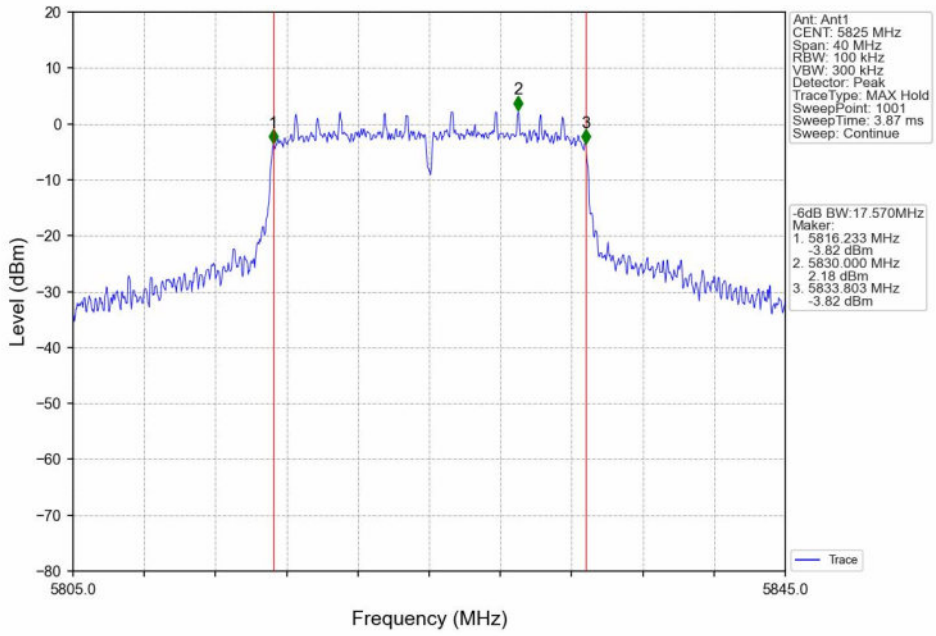
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



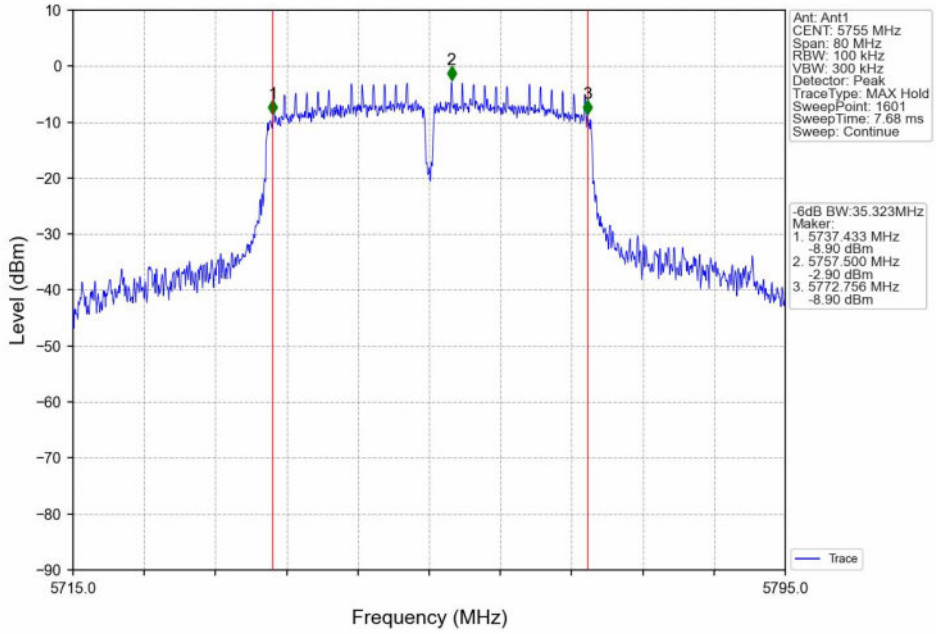
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



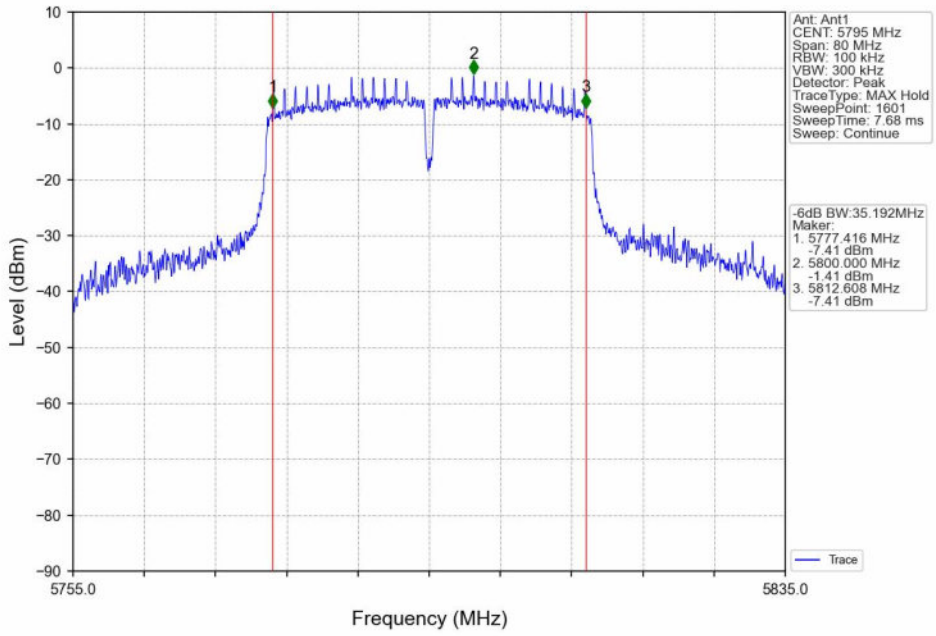
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



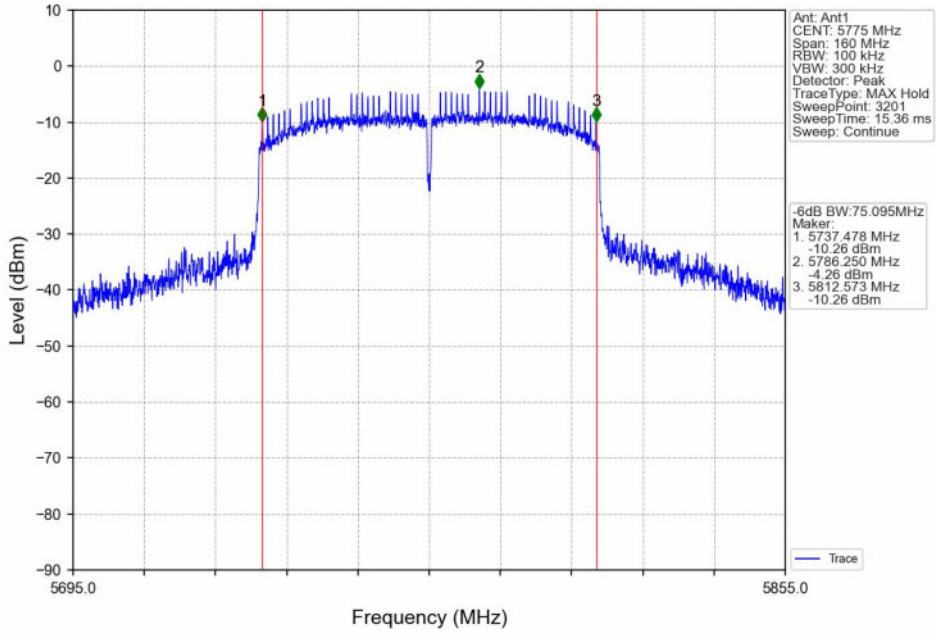
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



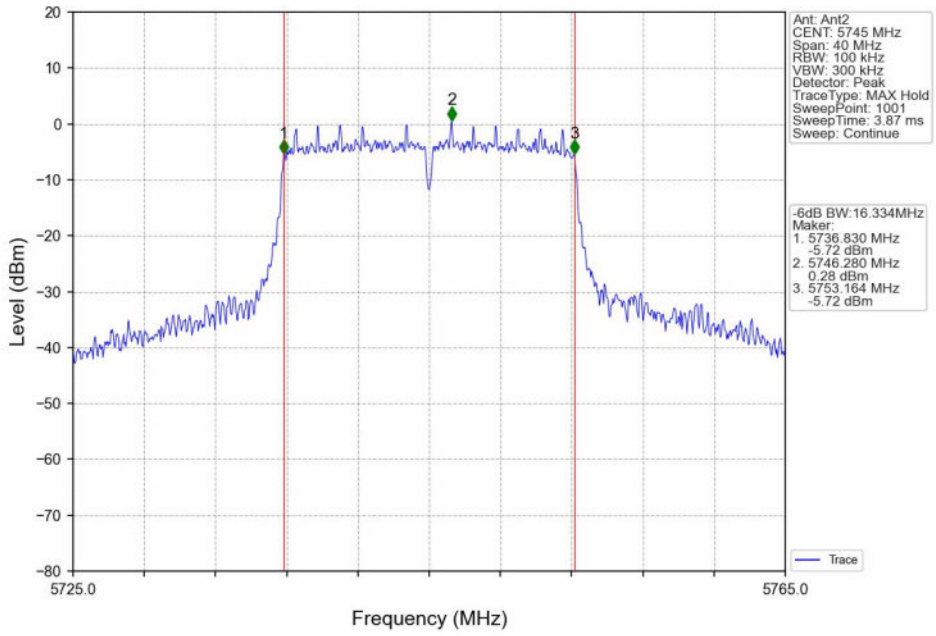
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV



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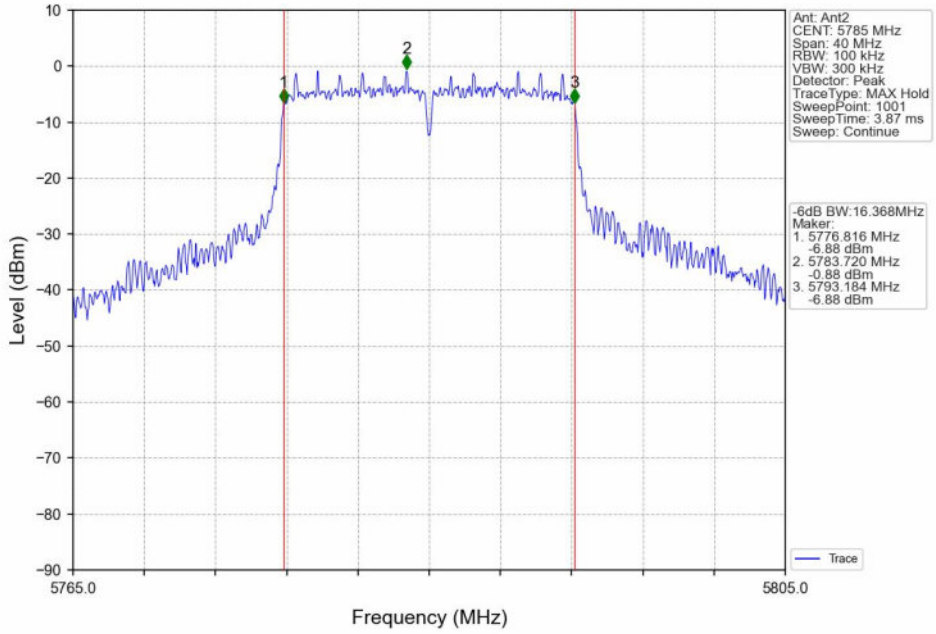
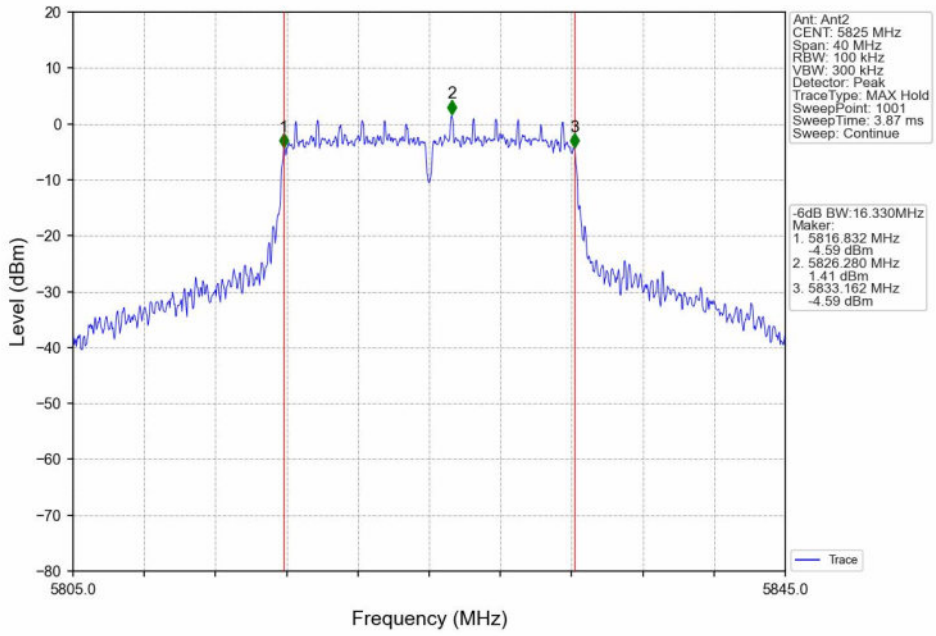
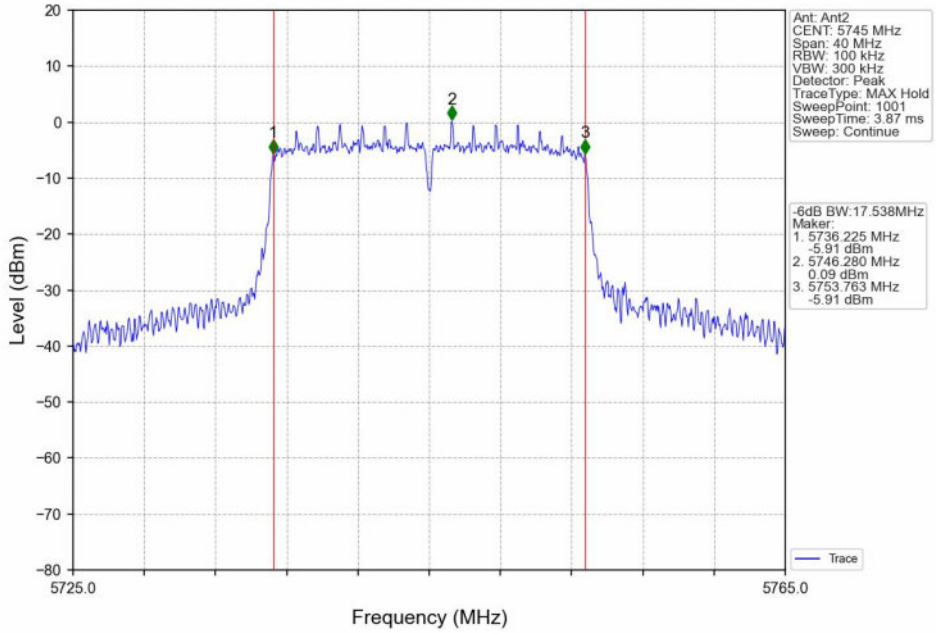


802.11a_HCH_5825MHz_Ant2_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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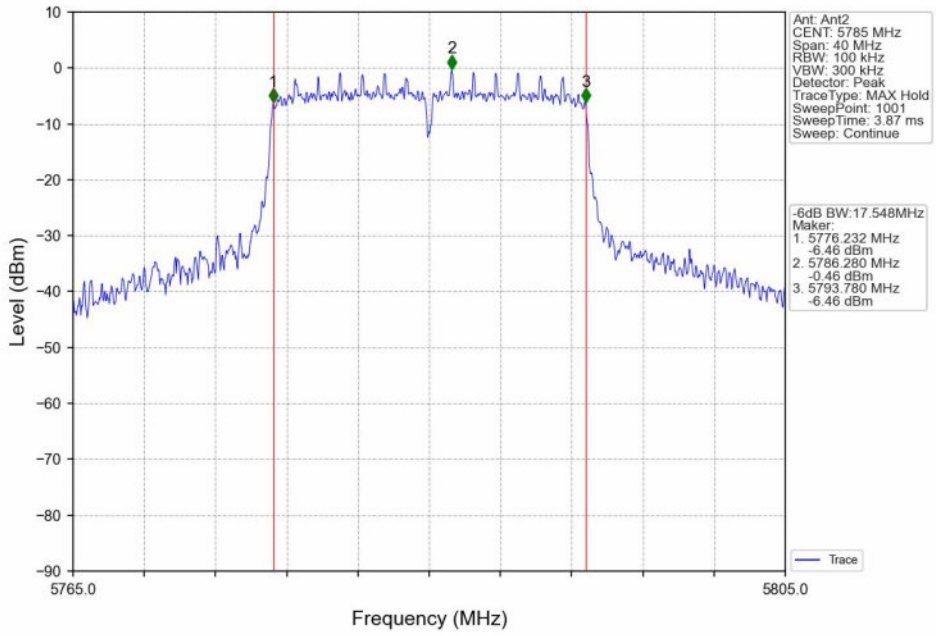

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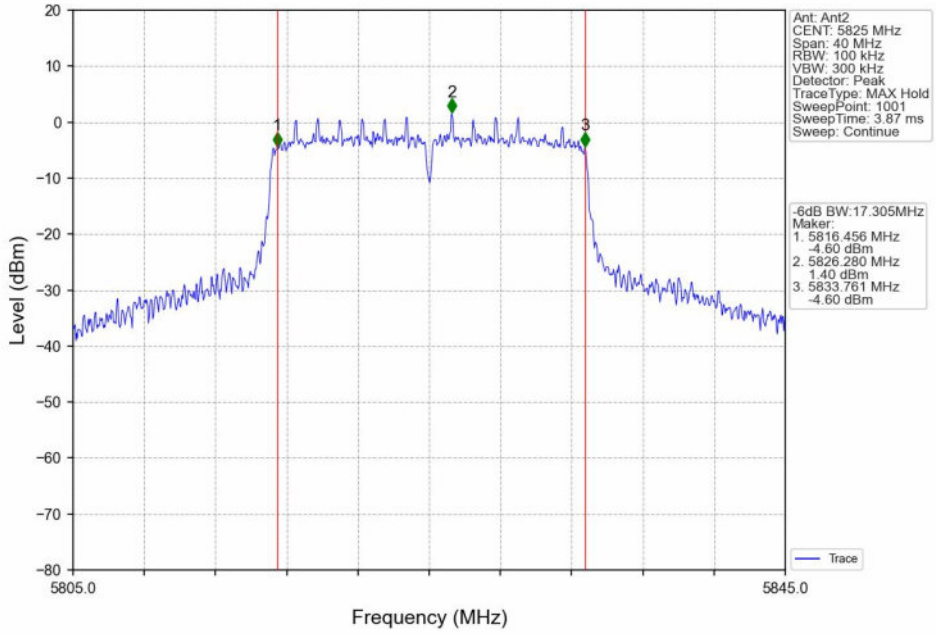
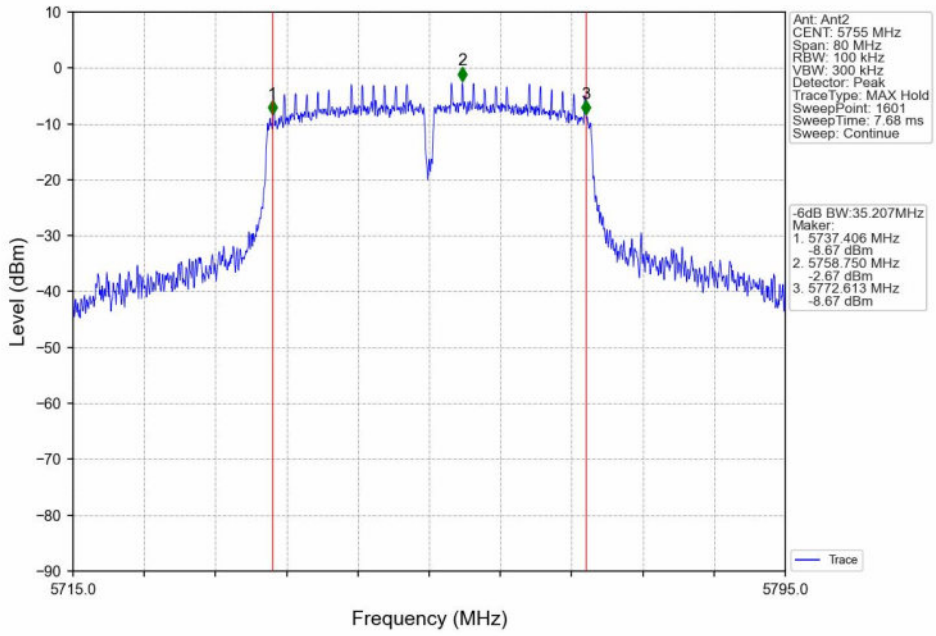


802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



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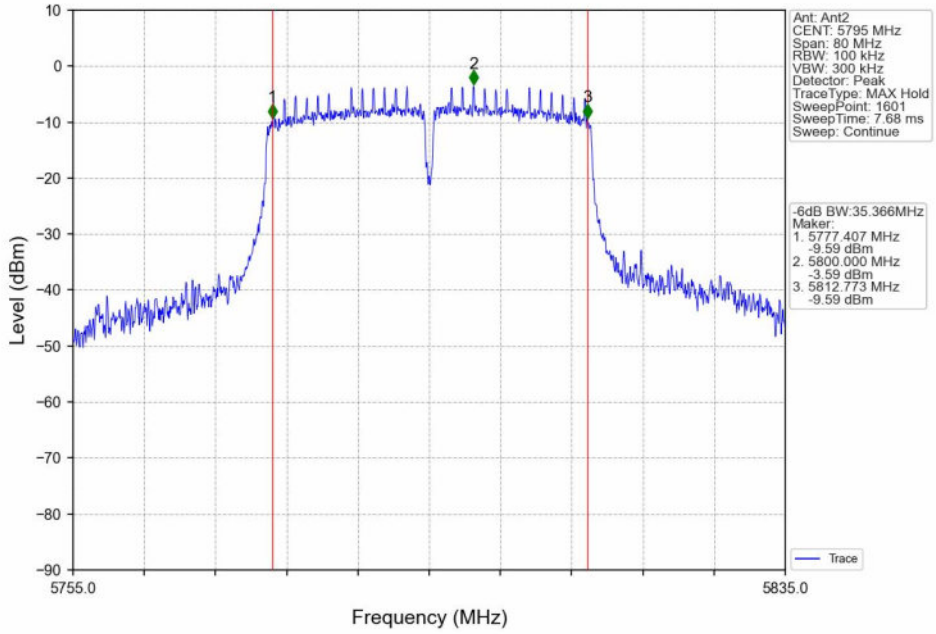
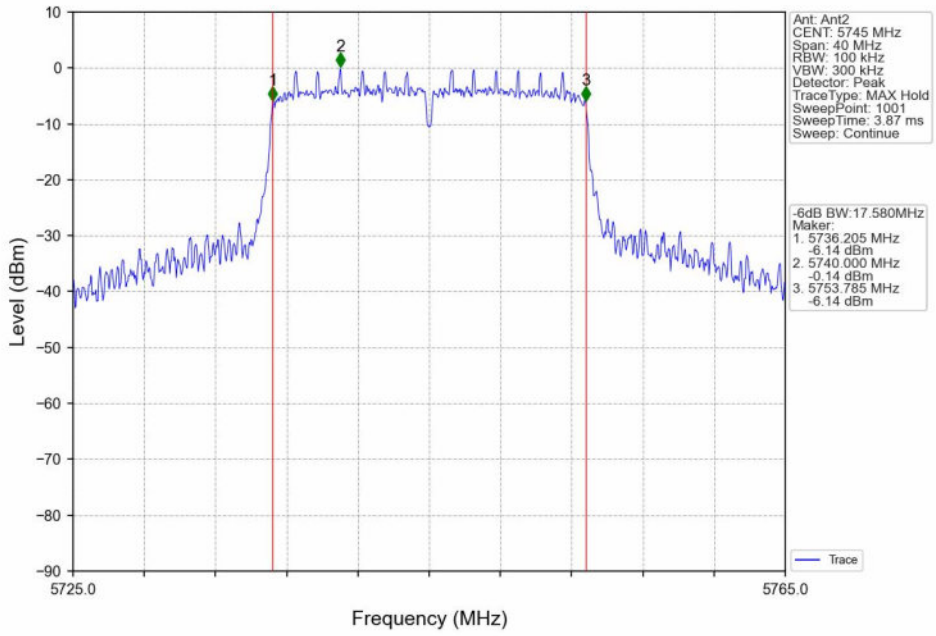


802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



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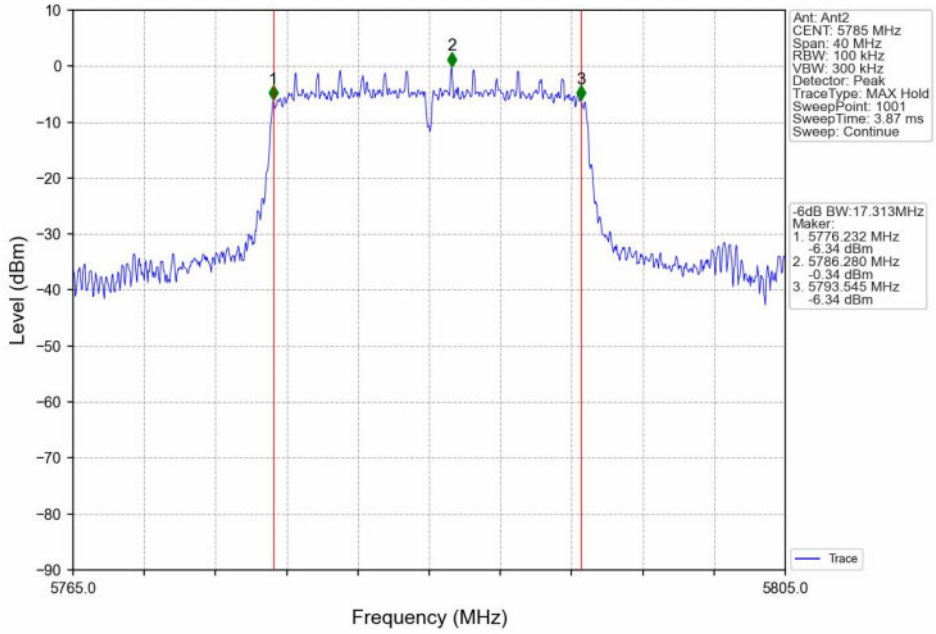

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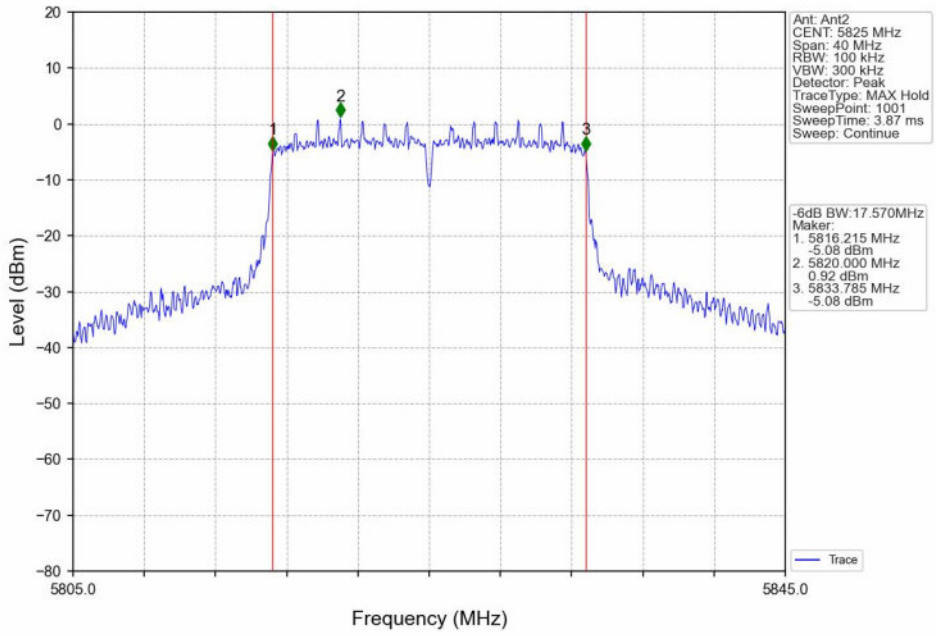
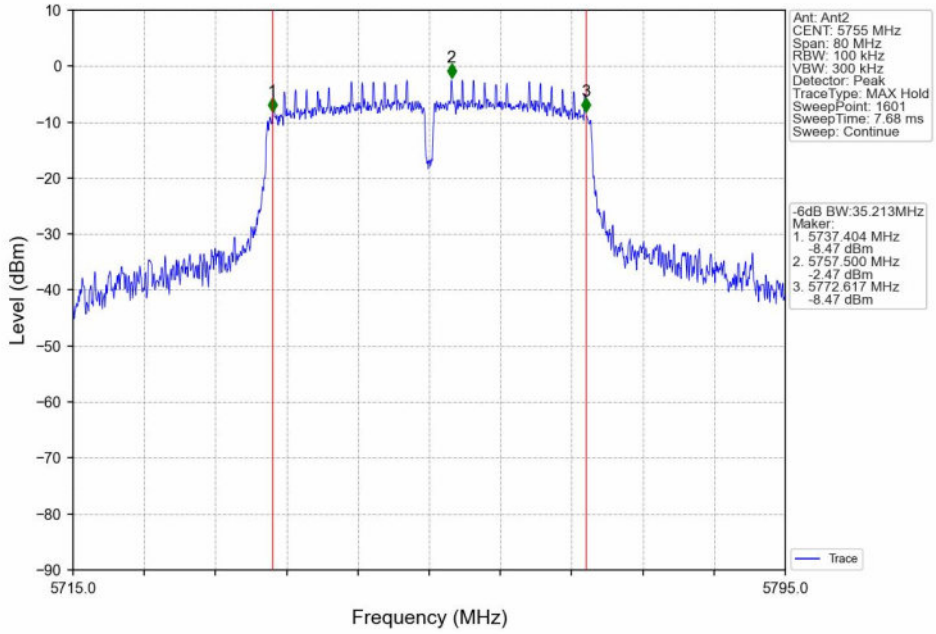
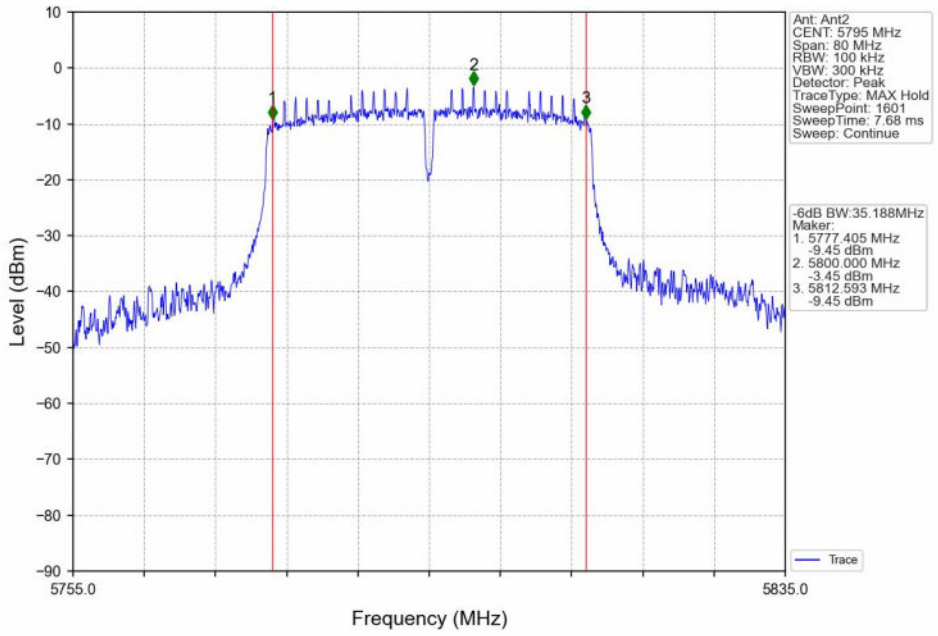


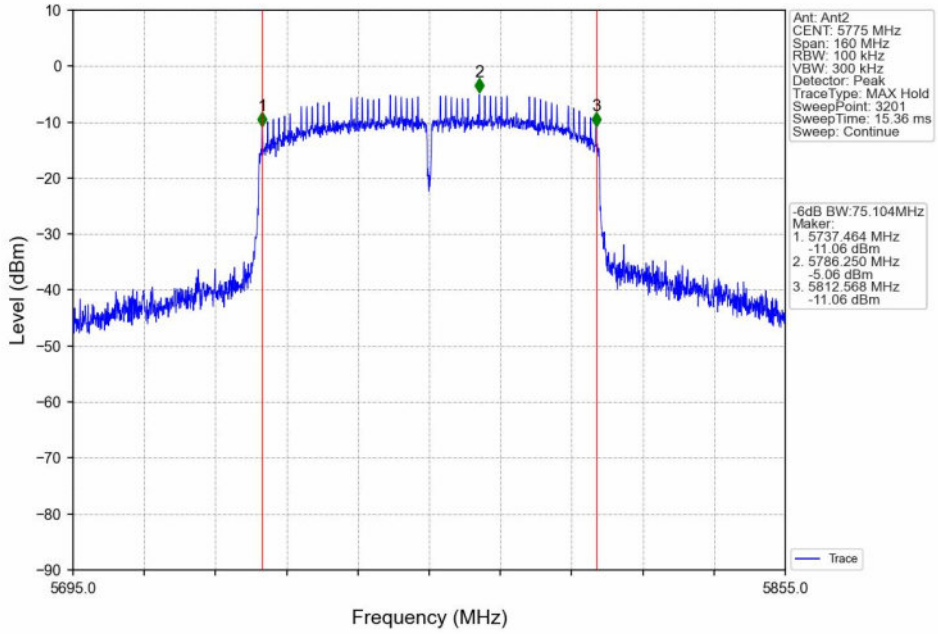
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



2. Maximum Conducted Output Power

2.1 Power

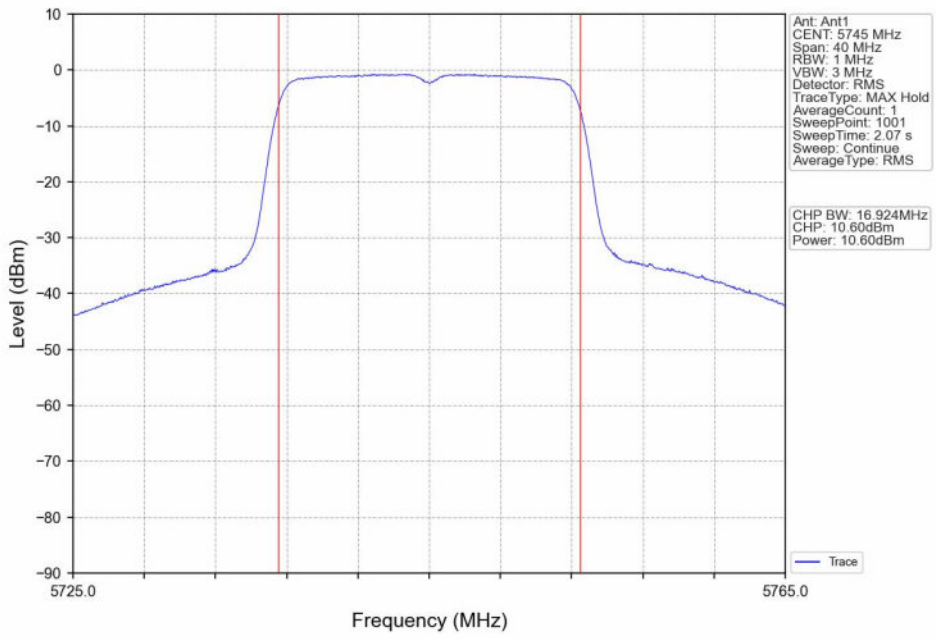
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	10.60	11.37	/	<=30	Pass
		5785	12.97	10.60	/	<=30	Pass
		5825	14.04	12.46	/	<=30	Pass
802.11n (HT20)	SISO	5745	10.94	10.36	/	<=30	Pass
		5785	12.01	9.74	/	<=30	Pass
		5825	13.10	11.31	/	<=30	Pass
802.11n (HT40)	SISO	5755	10.64	10.69	/	<=30	Pass
		5795	11.57	9.48	/	<=30	Pass
802.11n (HT20)	MIMO	5745	9.36	9.09	12.24	<=28.16	Pass
		5785	10.61	8.38	12.65	<=28.16	Pass
		5825	11.52	9.81	13.76	<=28.16	Pass
802.11n (HT40)	MIMO	5755	9.09	9.30	12.21	<=28.16	Pass
		5795	10.22	8.11	12.30	<=28.16	Pass
802.11ac (VHT20)	SISO	5745	10.47	10.67	/	<=30	Pass
		5785	11.75	9.59	/	<=30	Pass
		5825	12.92	11.24	/	<=30	Pass
802.11ac (VHT40)	SISO	5755	10.78	10.87	/	<=30	Pass
		5795	11.83	9.65	/	<=30	Pass
802.11ac (VHT80)	SISO	5775	11.94	10.79	/	<=30	Pass
802.11ac (VHT20)	MIMO	5745	9.51	9.32	12.43	<=28.16	Pass
		5785	10.82	8.47	12.81	<=28.16	Pass
		5825	11.68	9.85	13.87	<=28.16	Pass
802.11ac (VHT40)	MIMO	5755	9.24	9.52	12.39	<=28.16	Pass
		5795	10.50	8.33	12.56	<=28.16	Pass
802.11ac (VHT80)	MIMO	5775	10.55	9.48	13.06	<=28.16	Pass

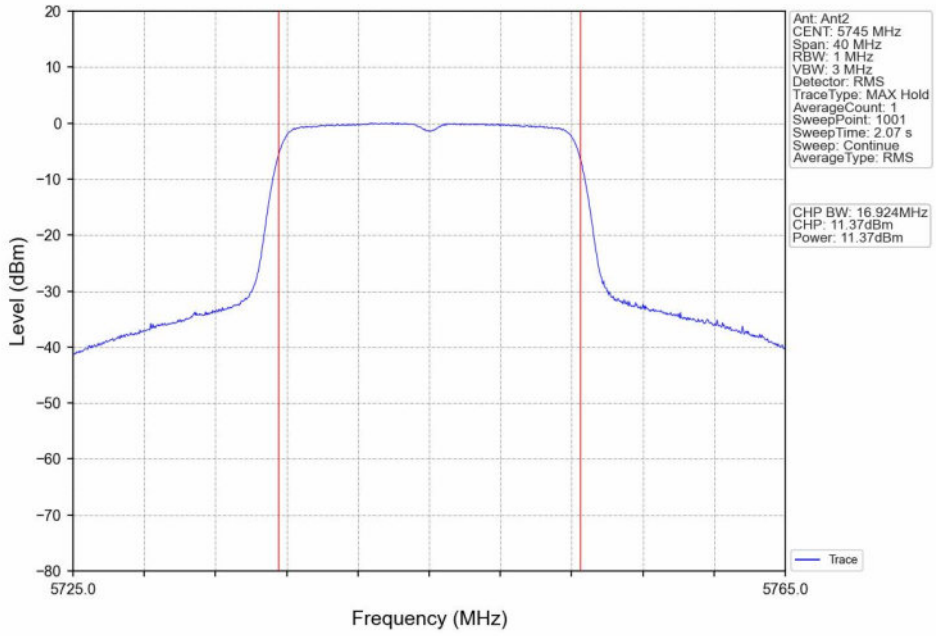
Note1: Antenna Gain: Ant1: 5.39dBi; Ant2: 4.24dBi;
Note2: Directional gain=10log[$(10^{G1/20}+10^{G2/20}+\cdots+10^{GN/20})^2/N_{ANT}$] dBi [Note the “20” s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

2.1.2 Test Graph

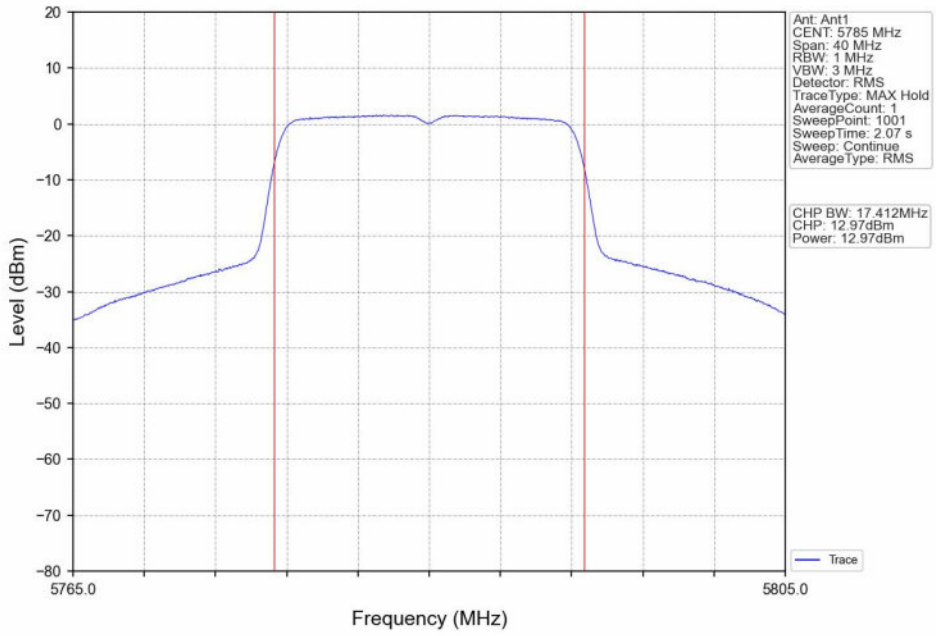
802.11a_LCH_5745MHz_Ant1_NTNV



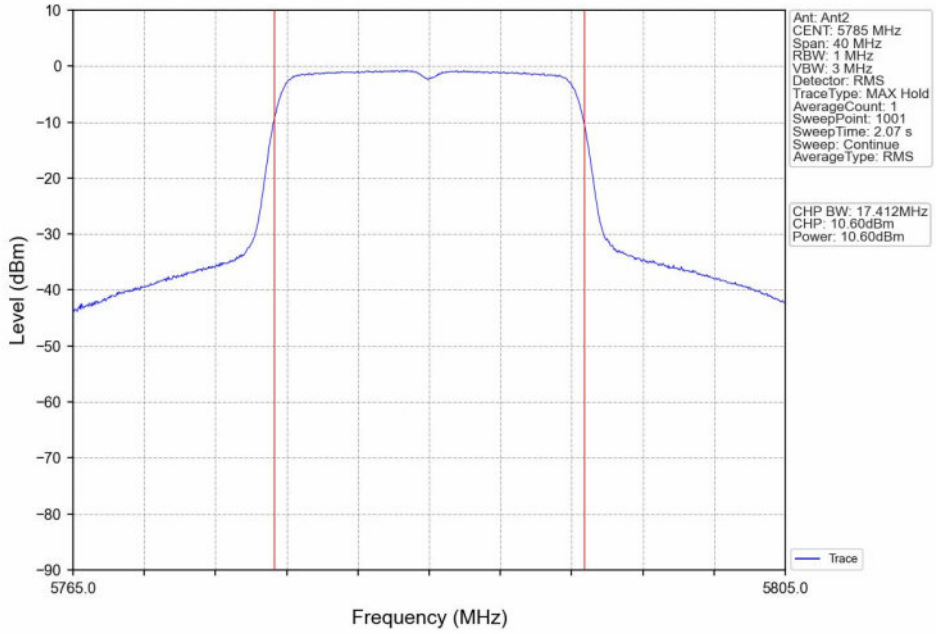
802.11a_LCH_5745MHz_Ant2_NTNV



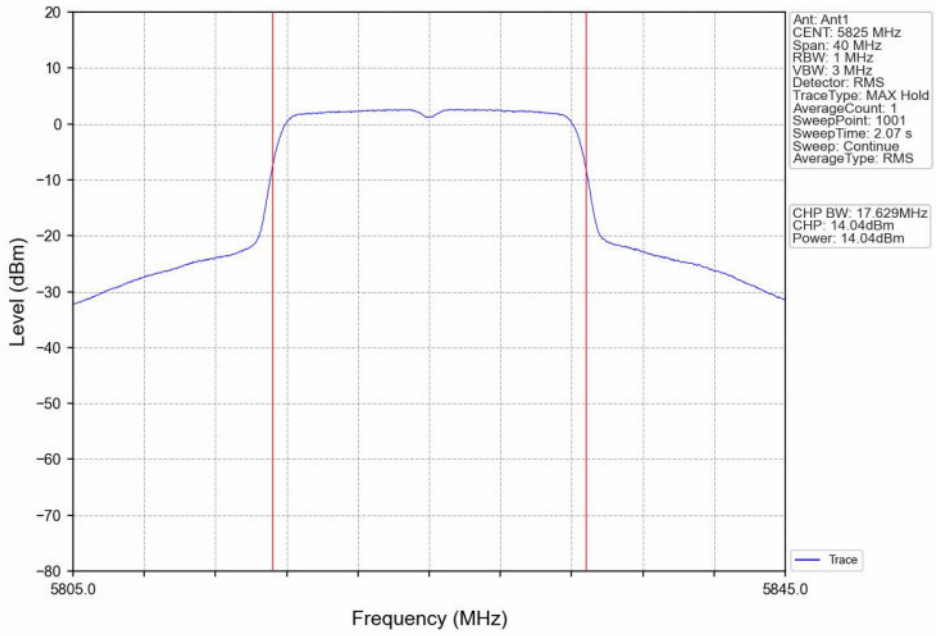
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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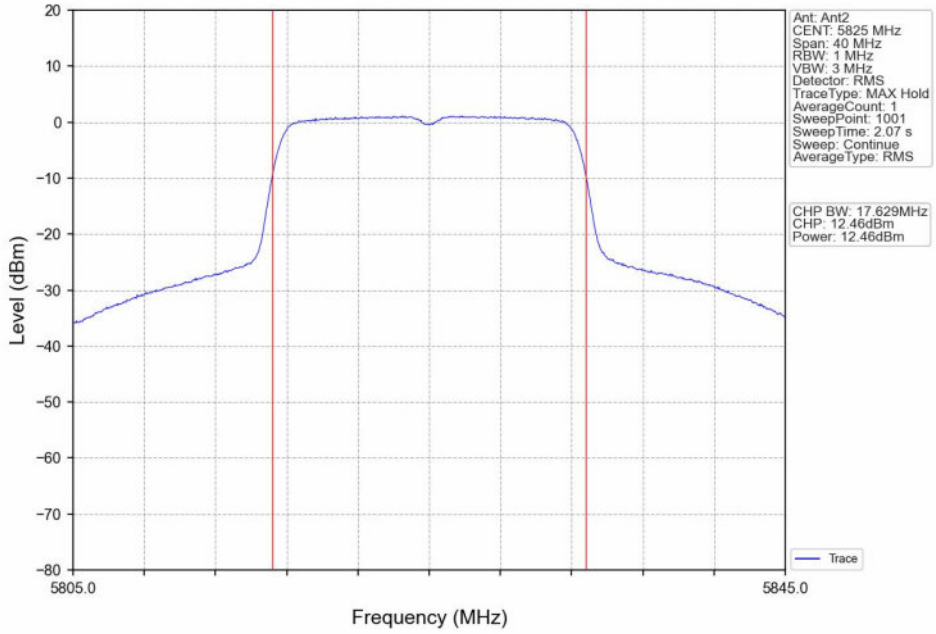
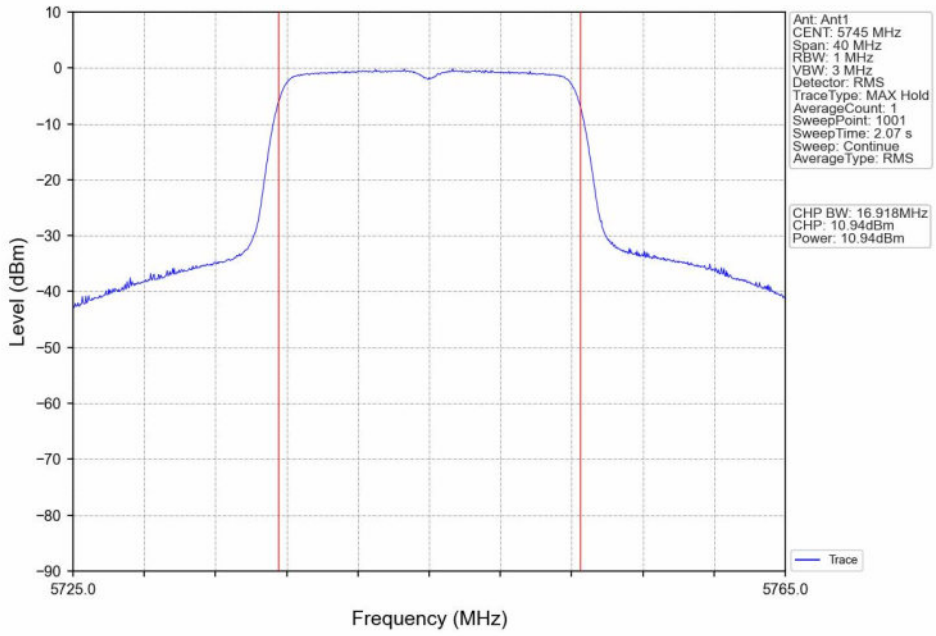
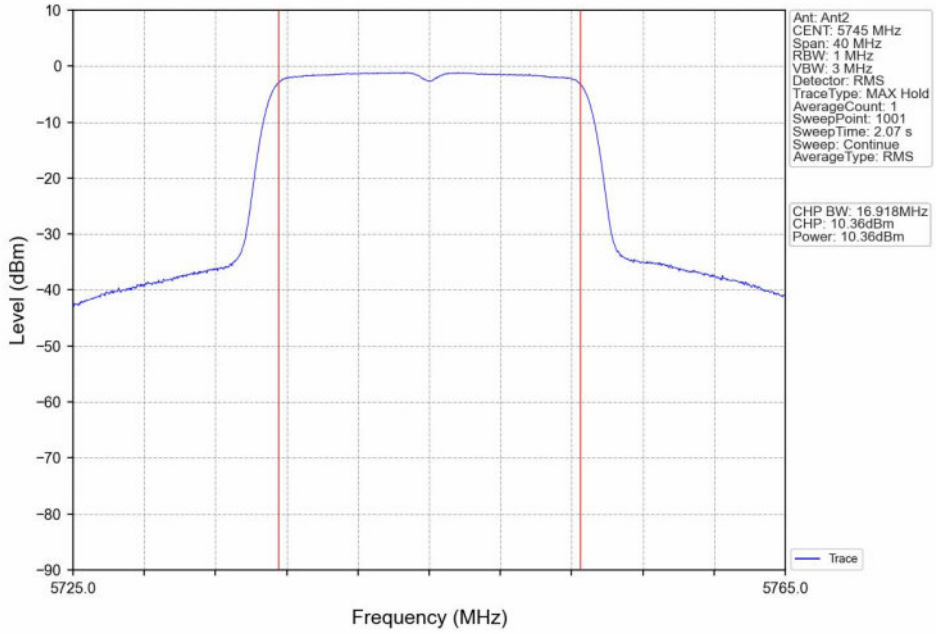


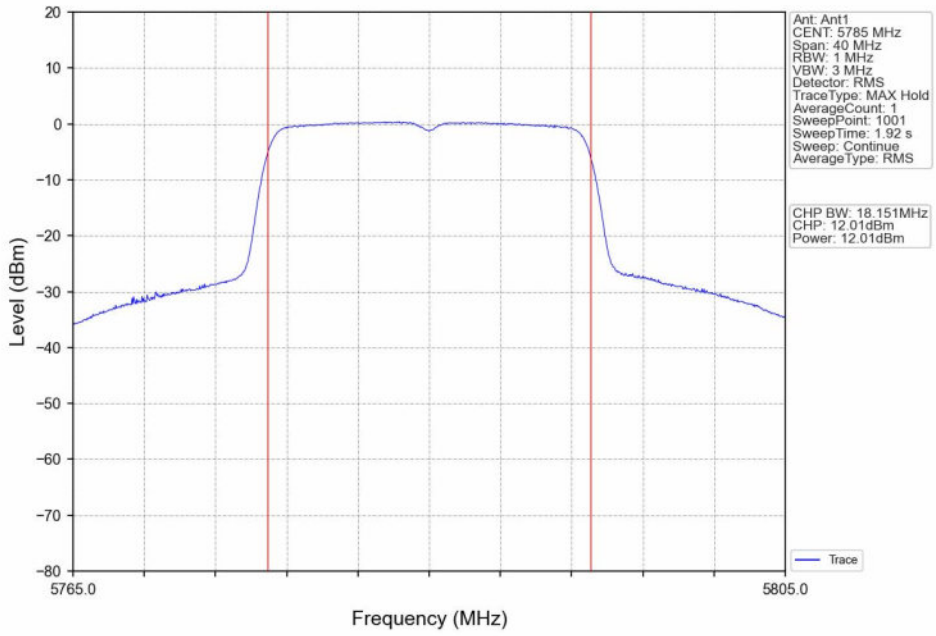
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



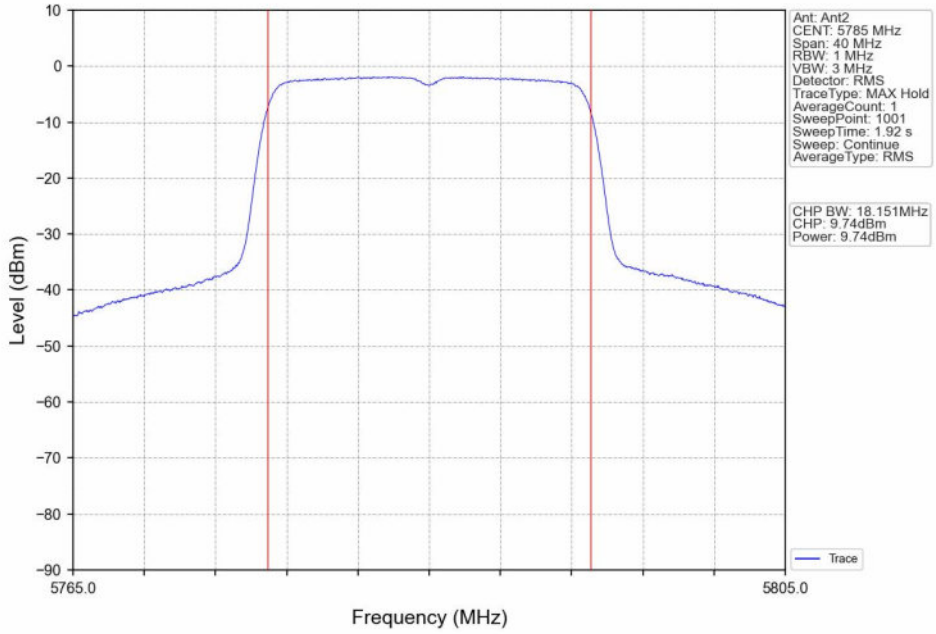
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



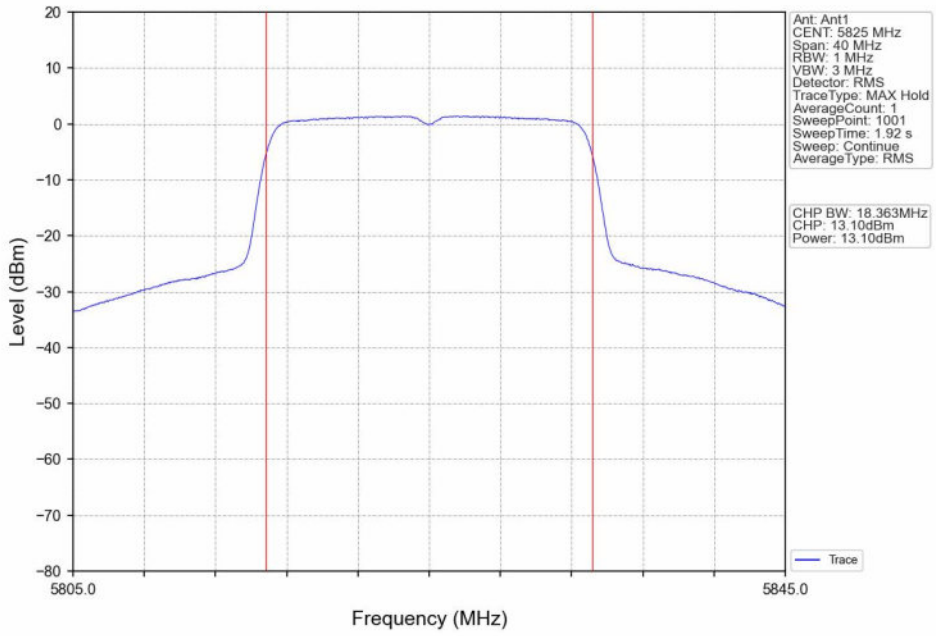
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



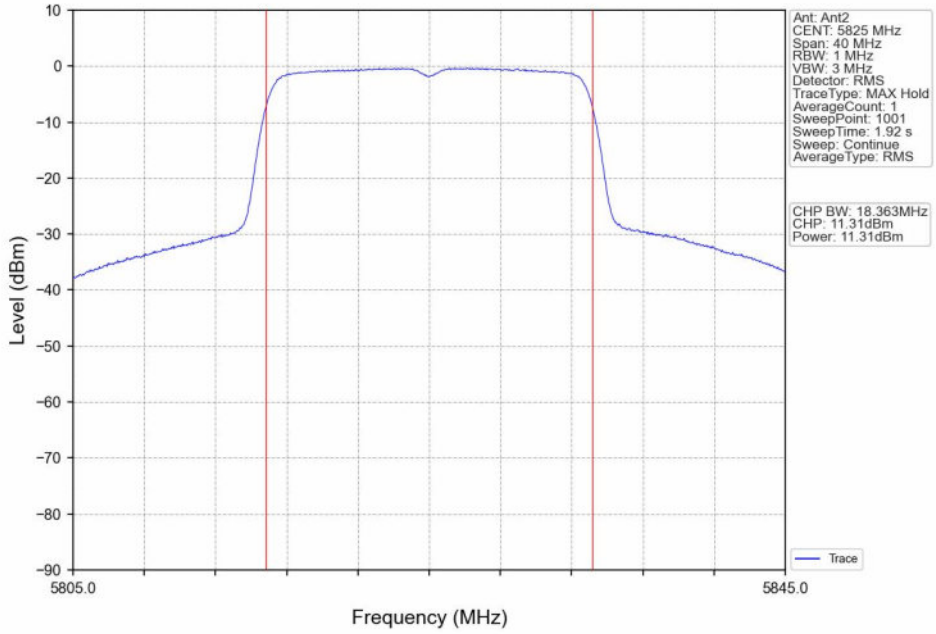
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



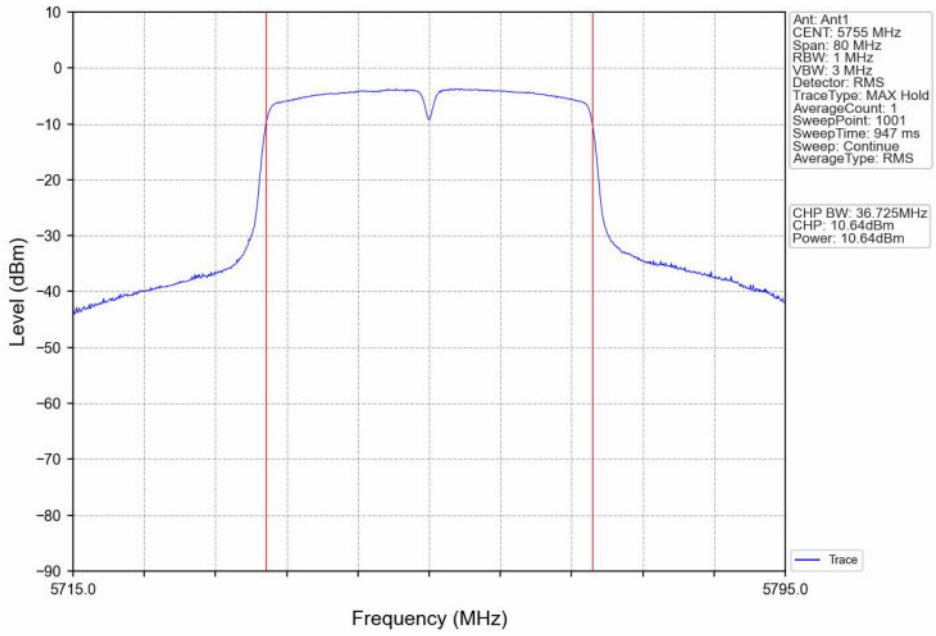
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



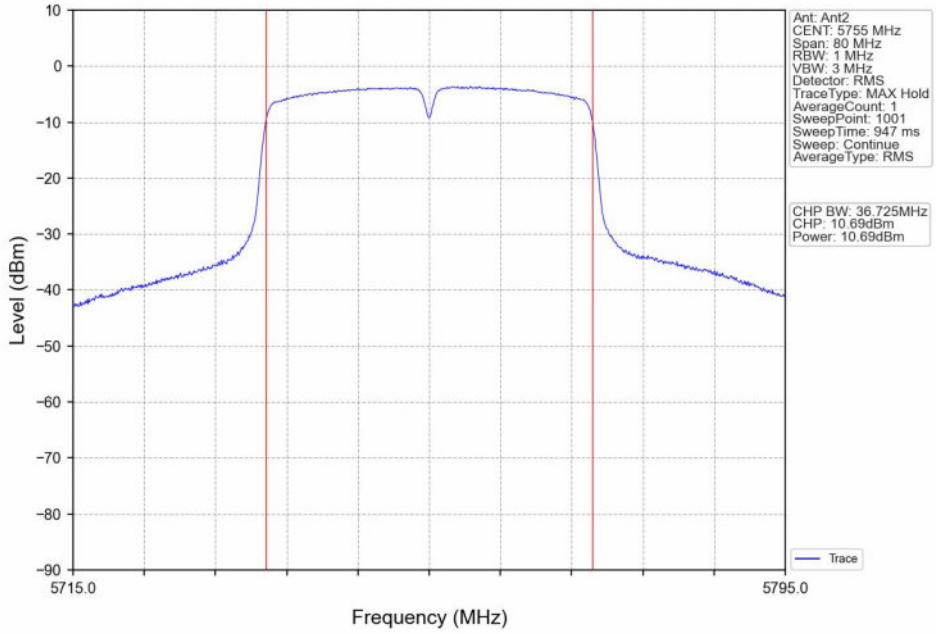
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



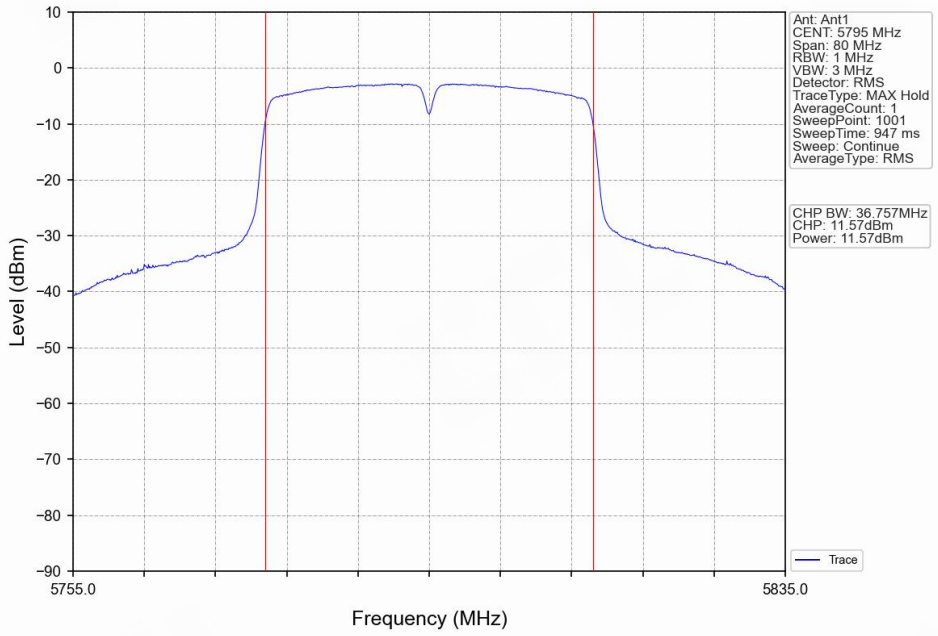
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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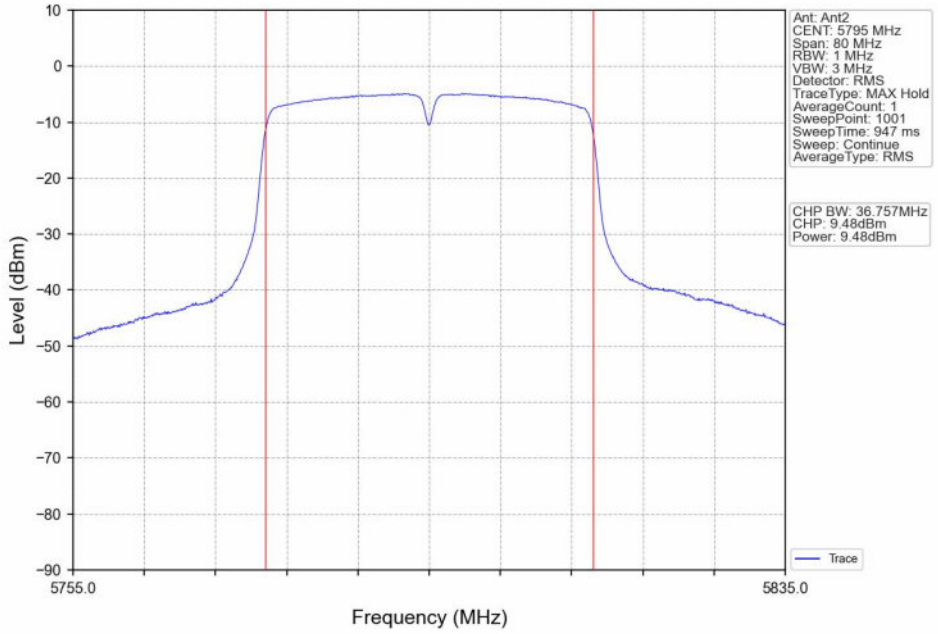
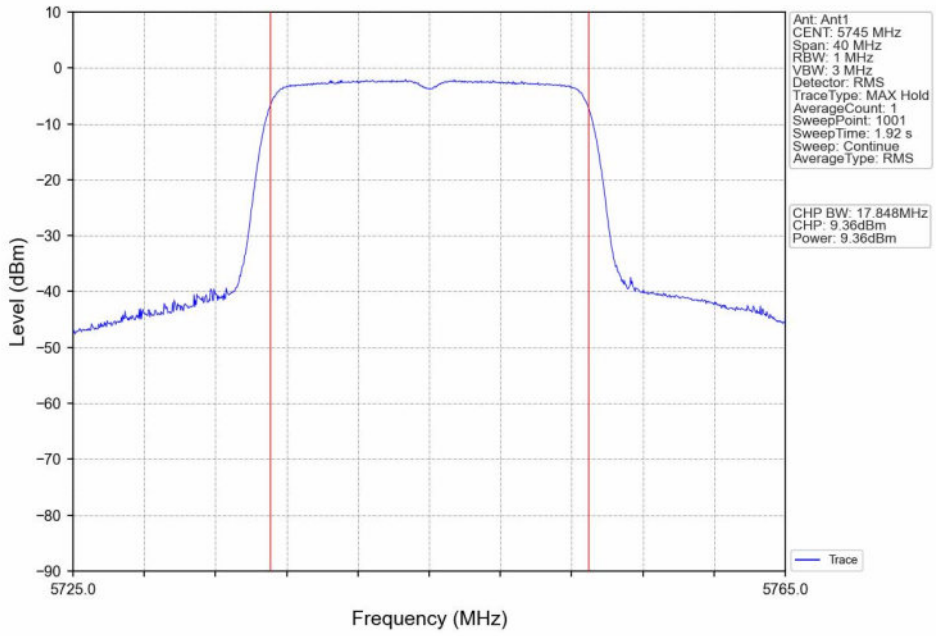


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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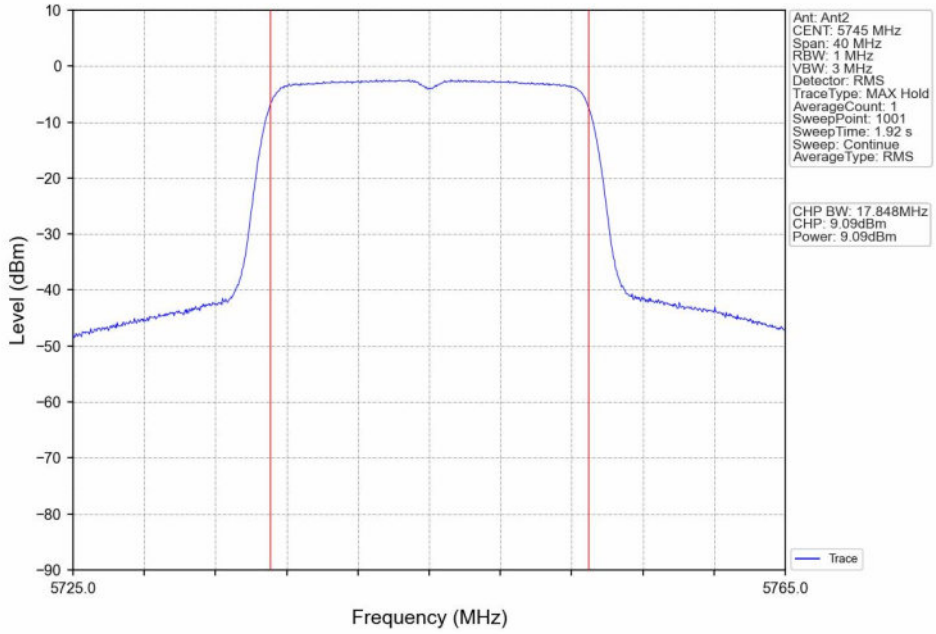

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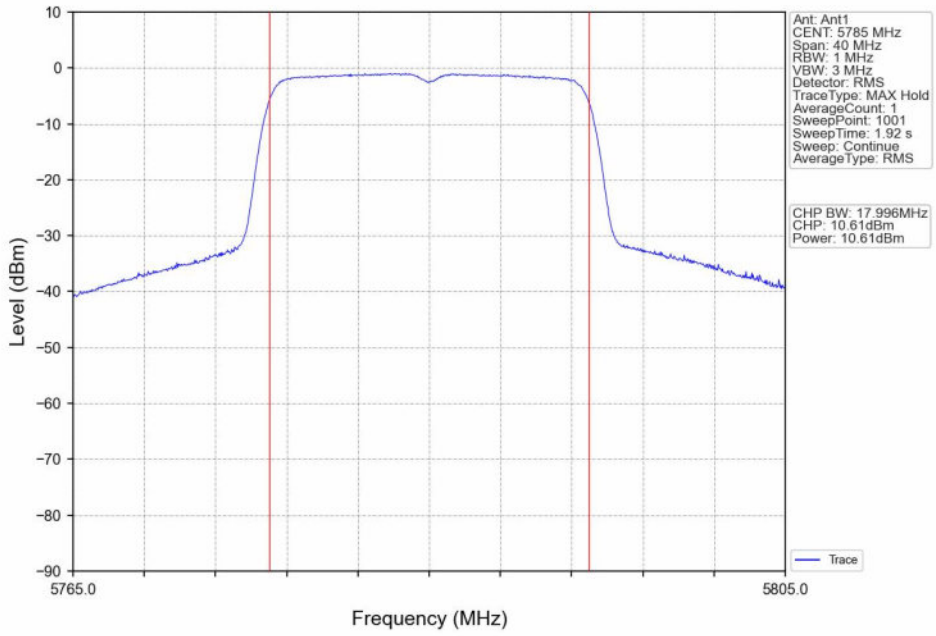

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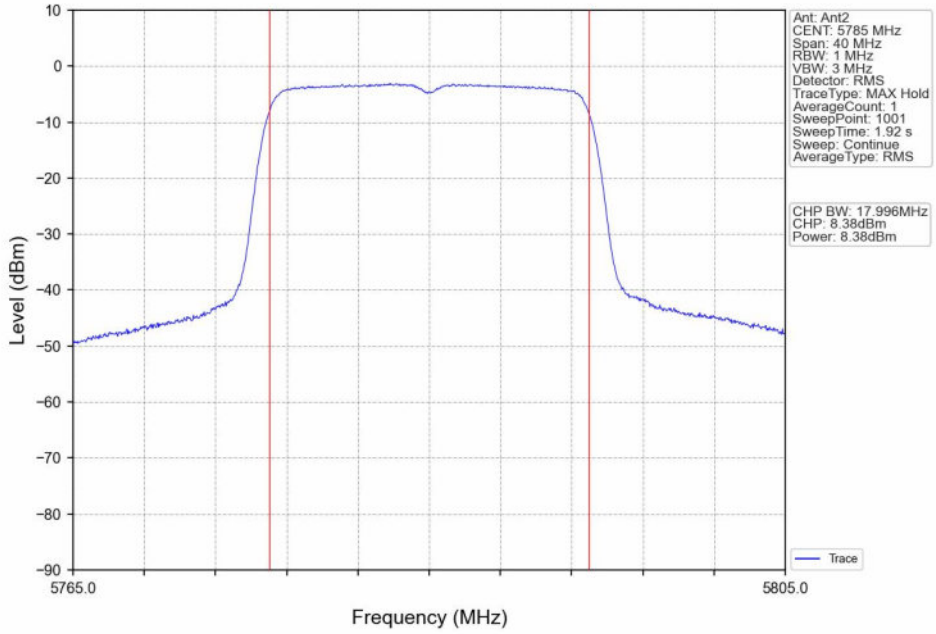
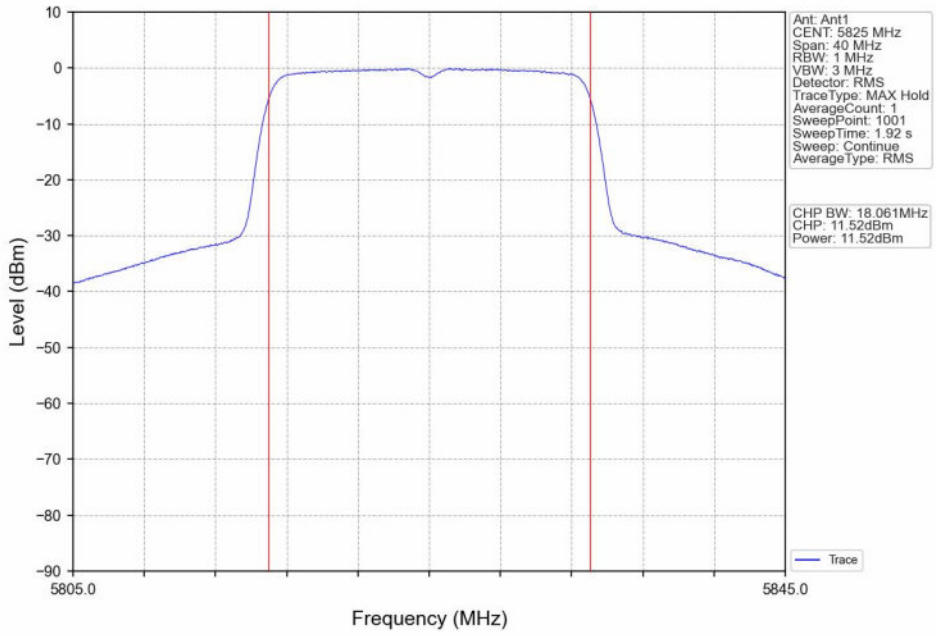


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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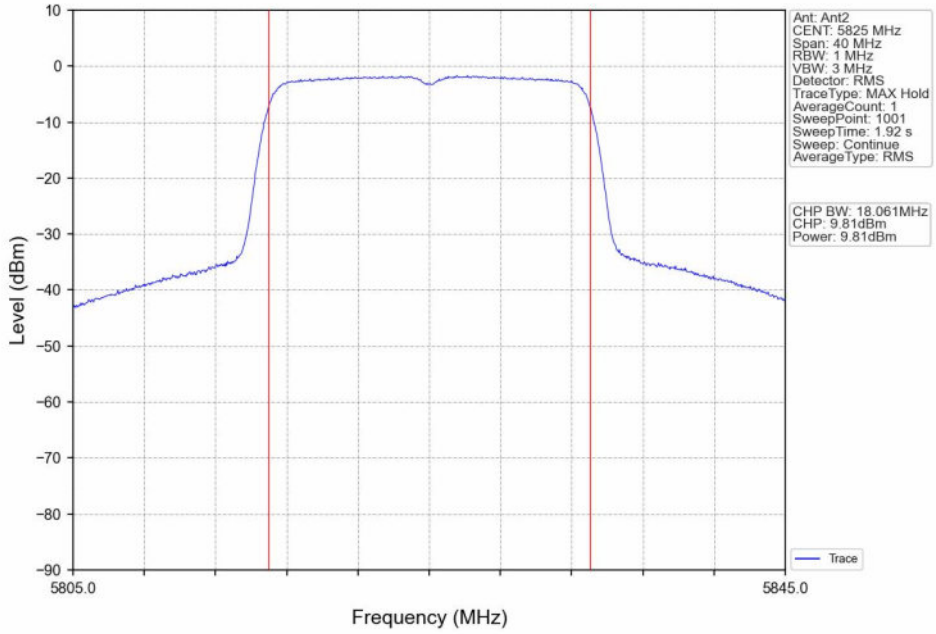
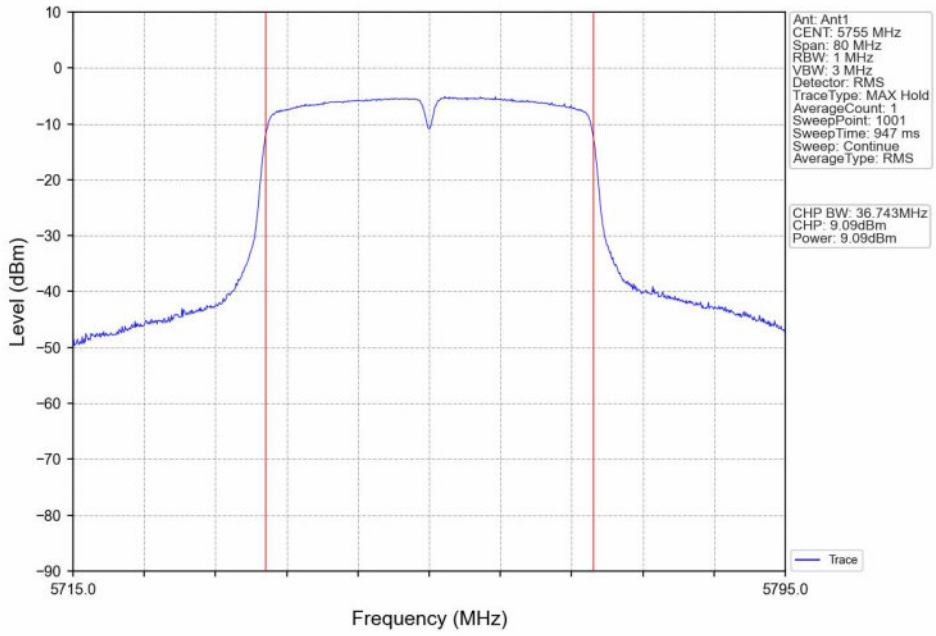


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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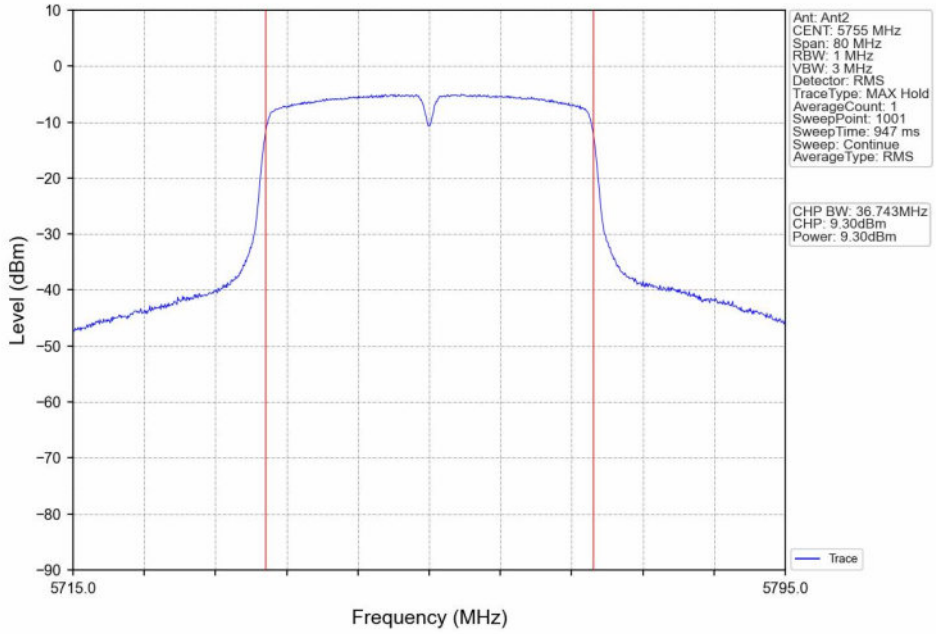

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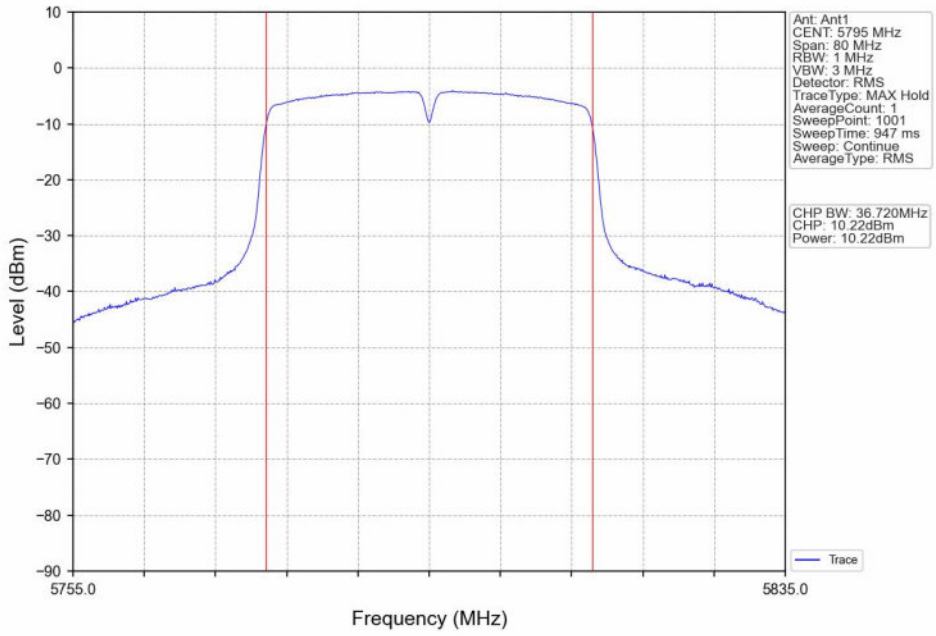
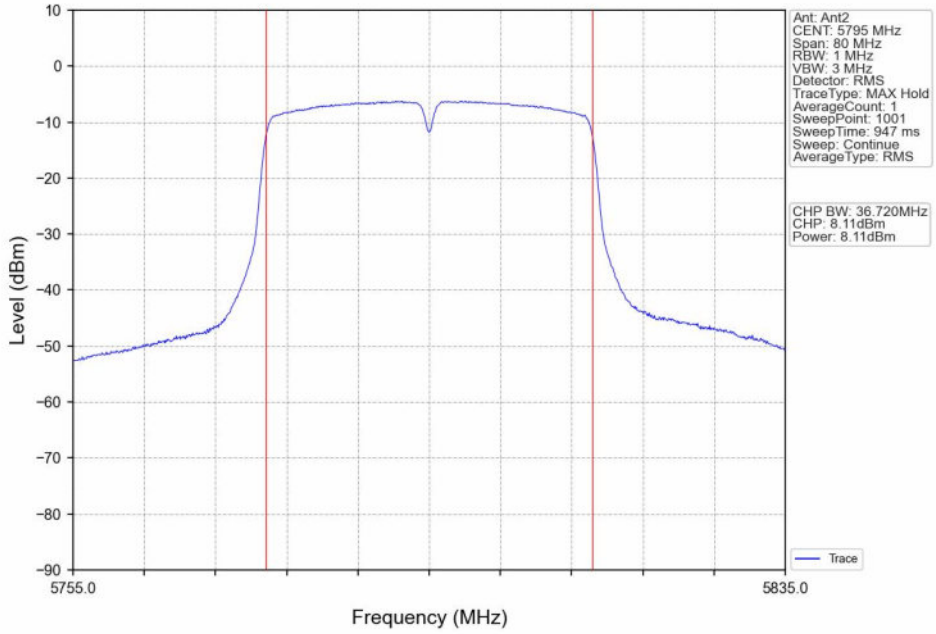
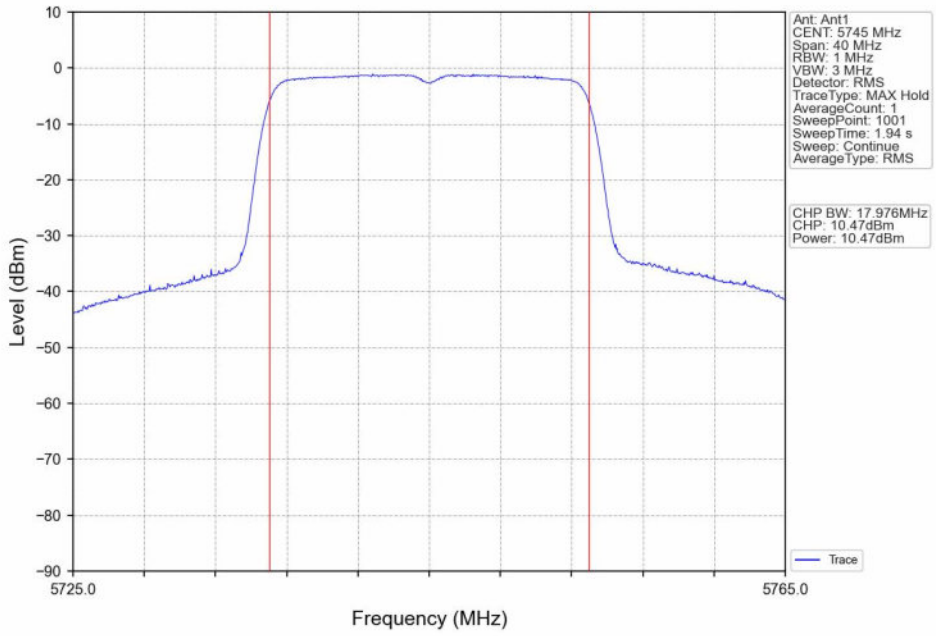


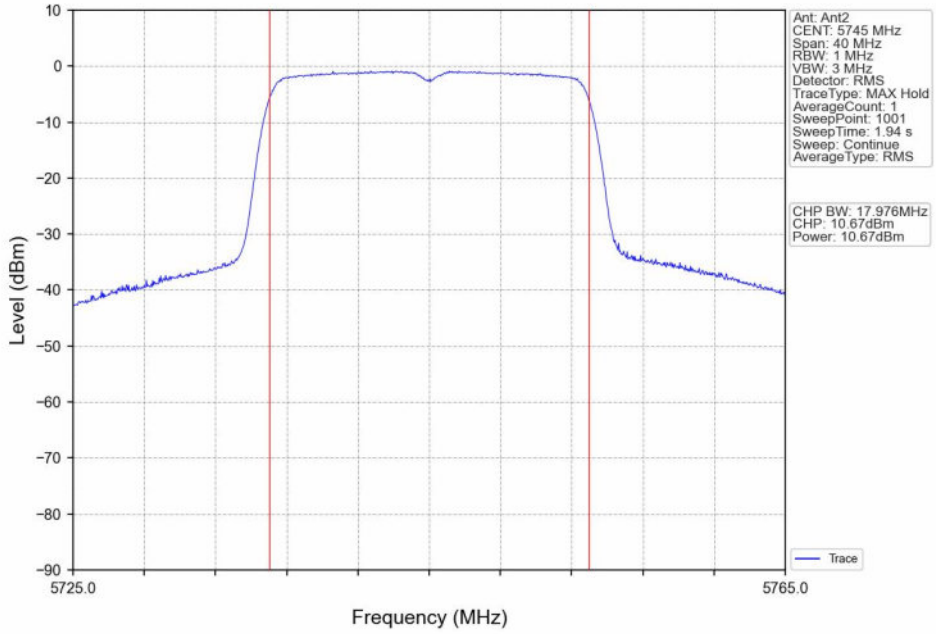
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



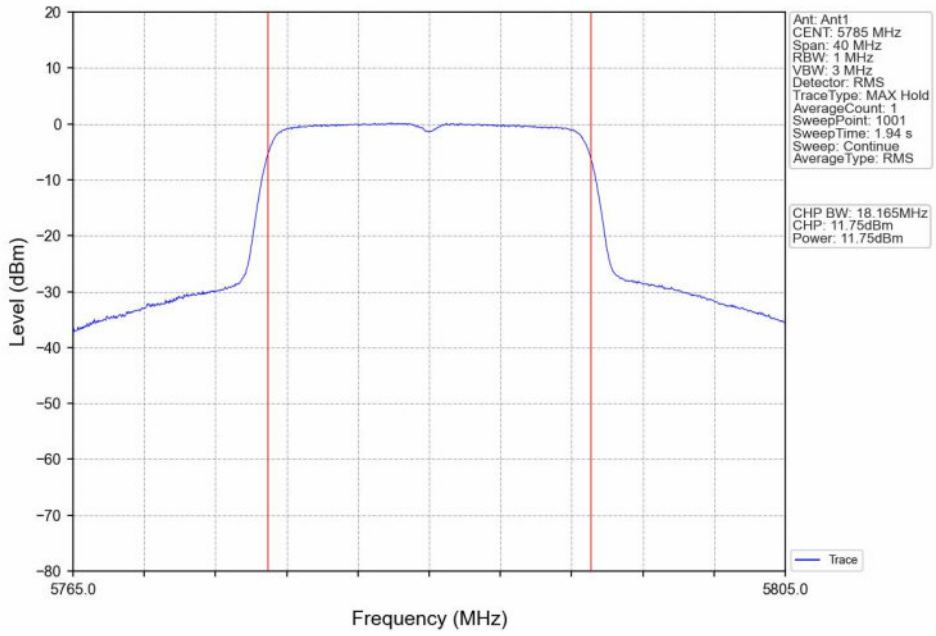
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



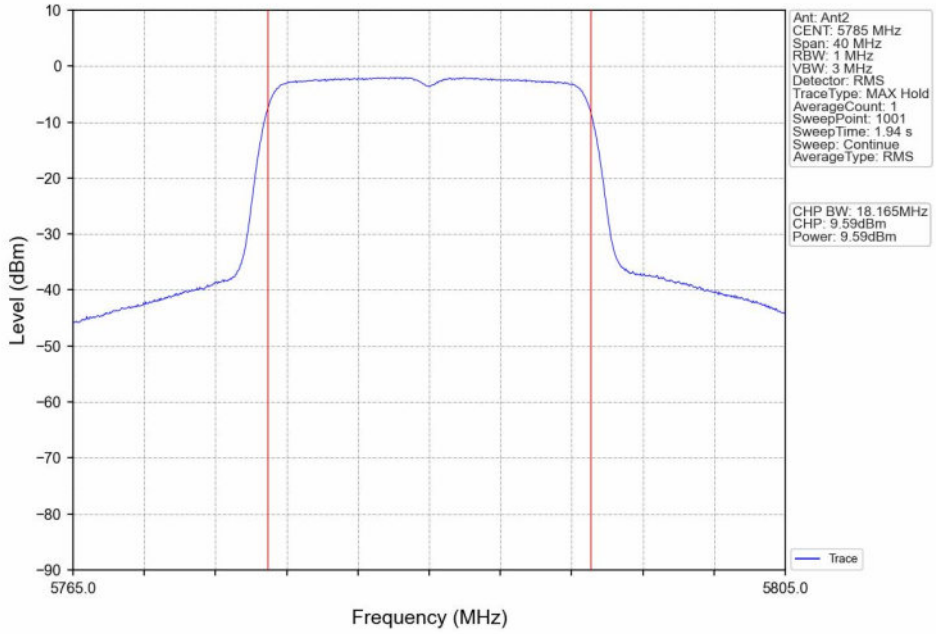
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



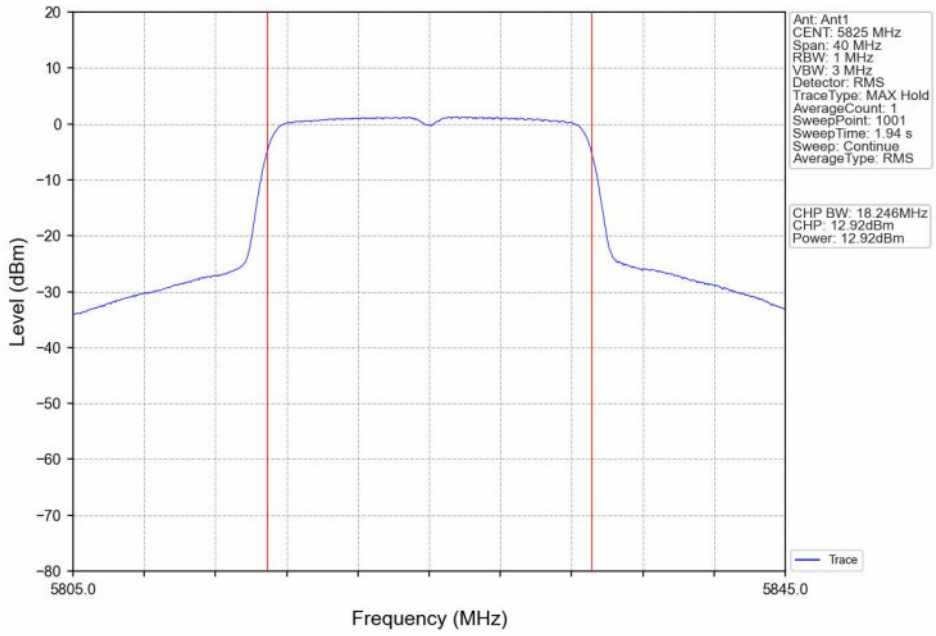
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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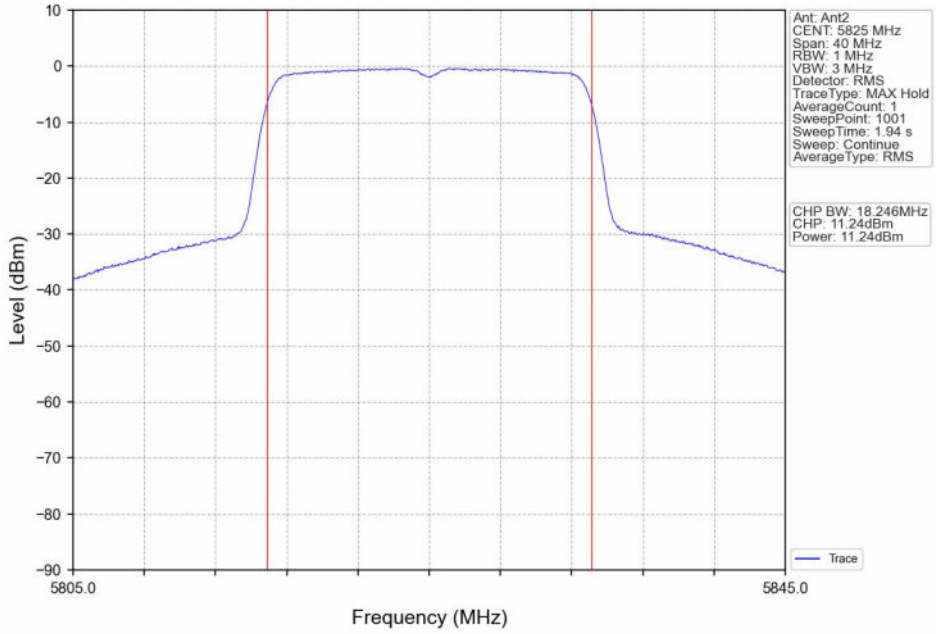
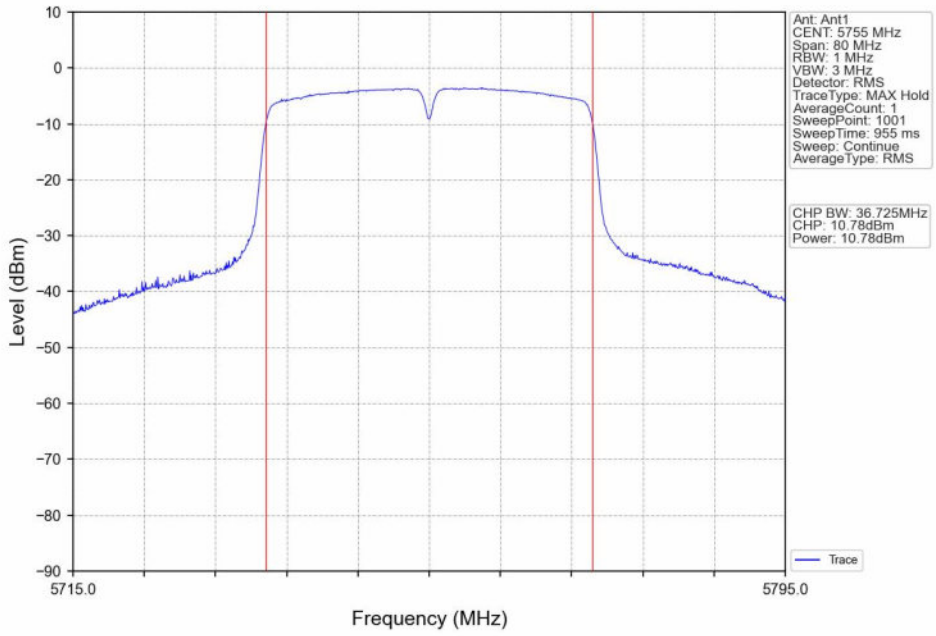


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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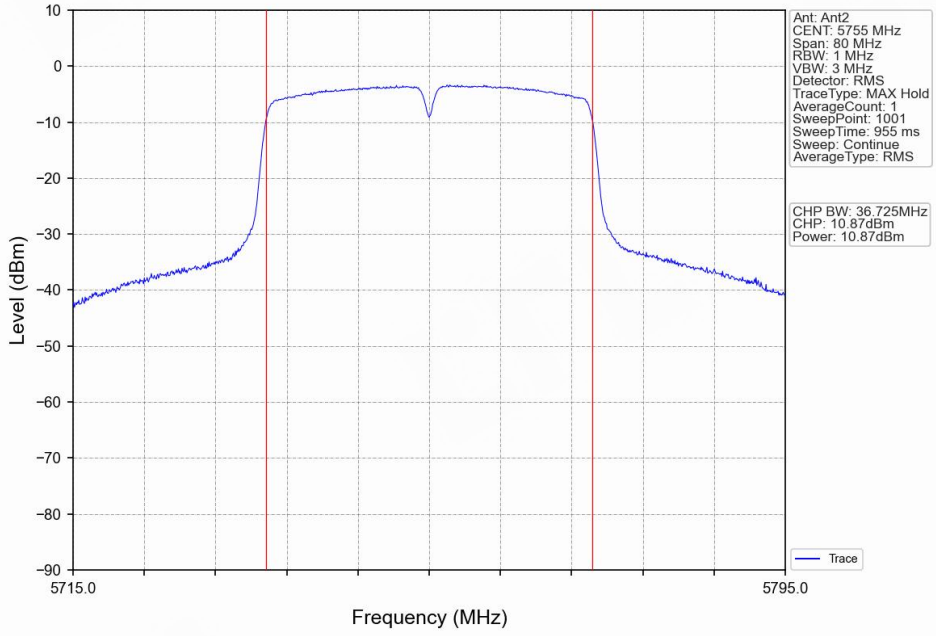

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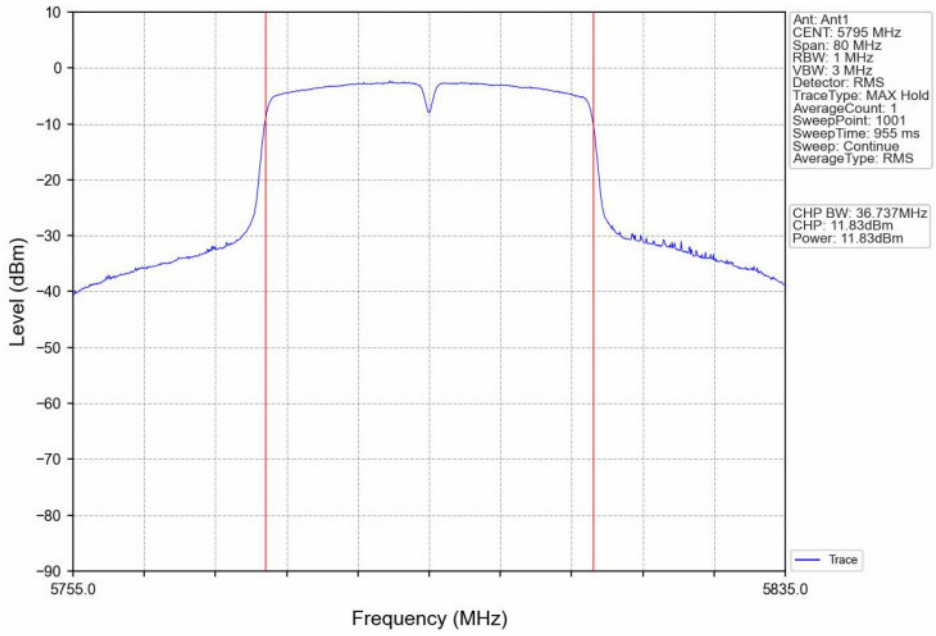
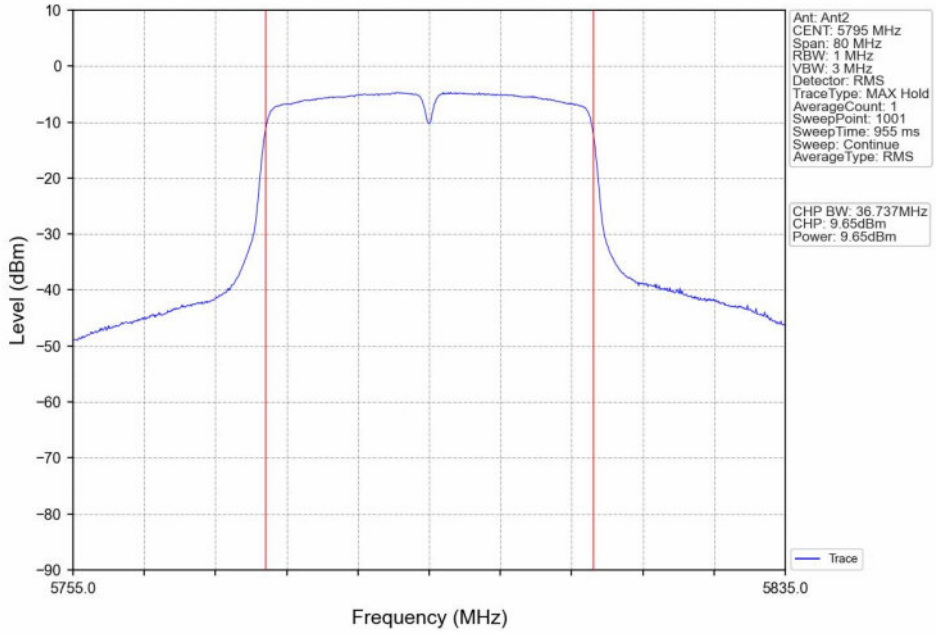
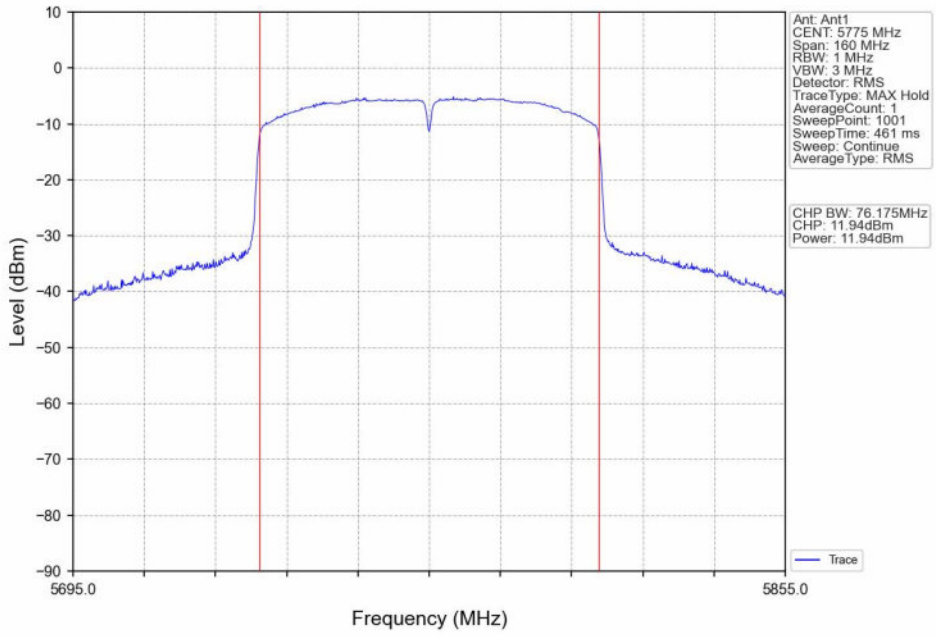


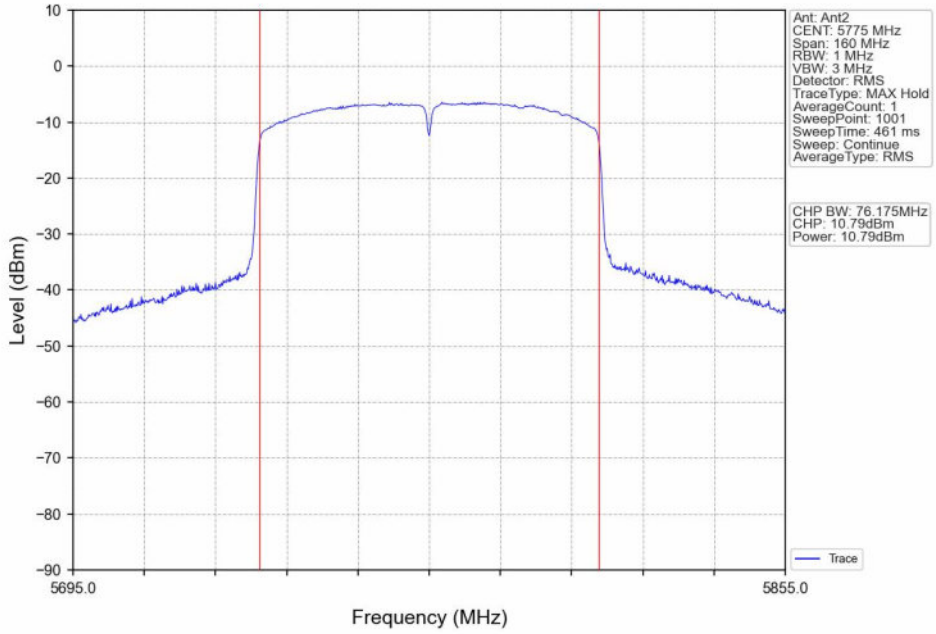
802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



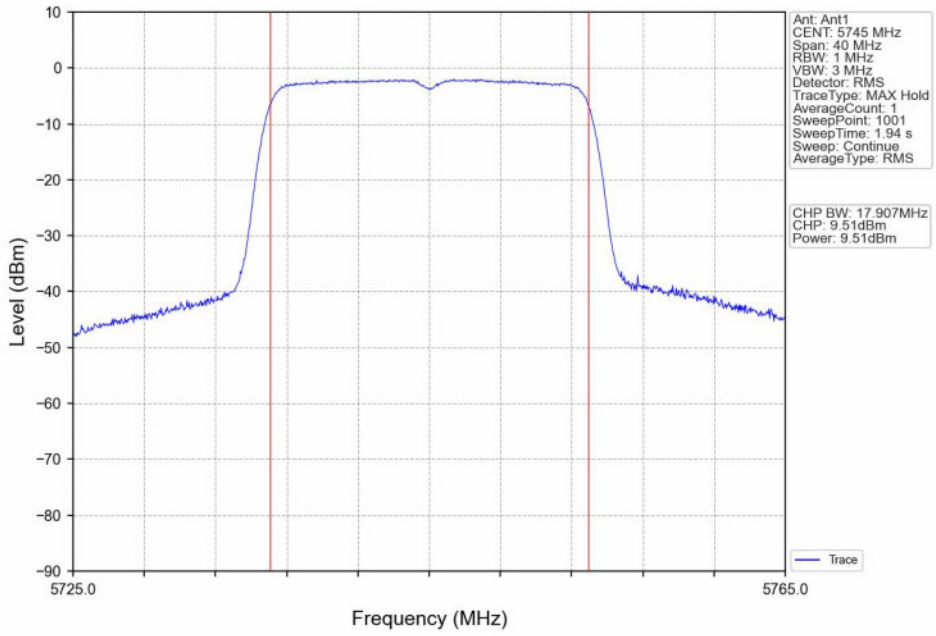
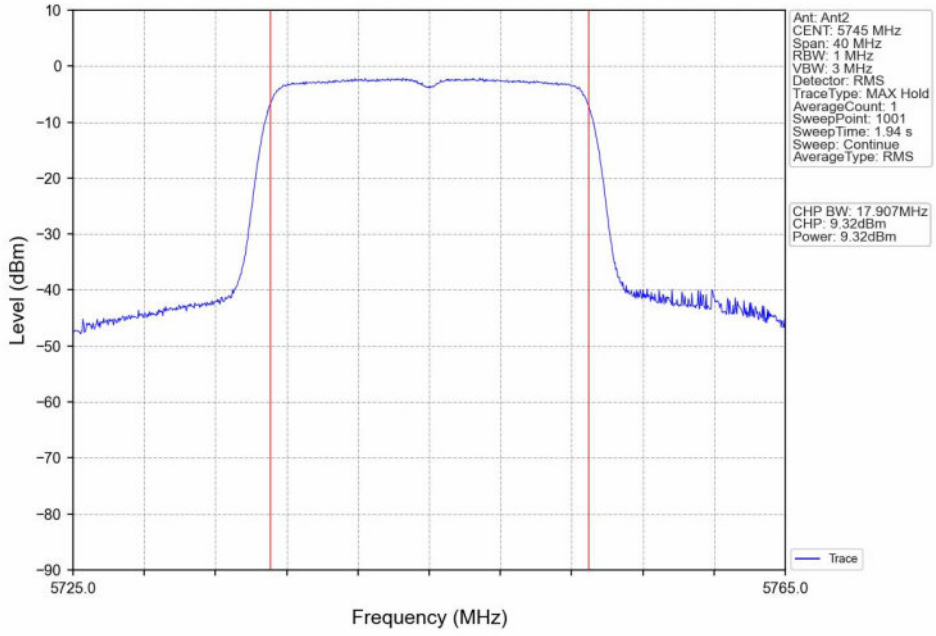
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV