

Appendix B for SHEM210200159602

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	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	MIMO	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	MIMO	5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	MIMO	5775	100.000	100.000	100.00	0.00	0.00



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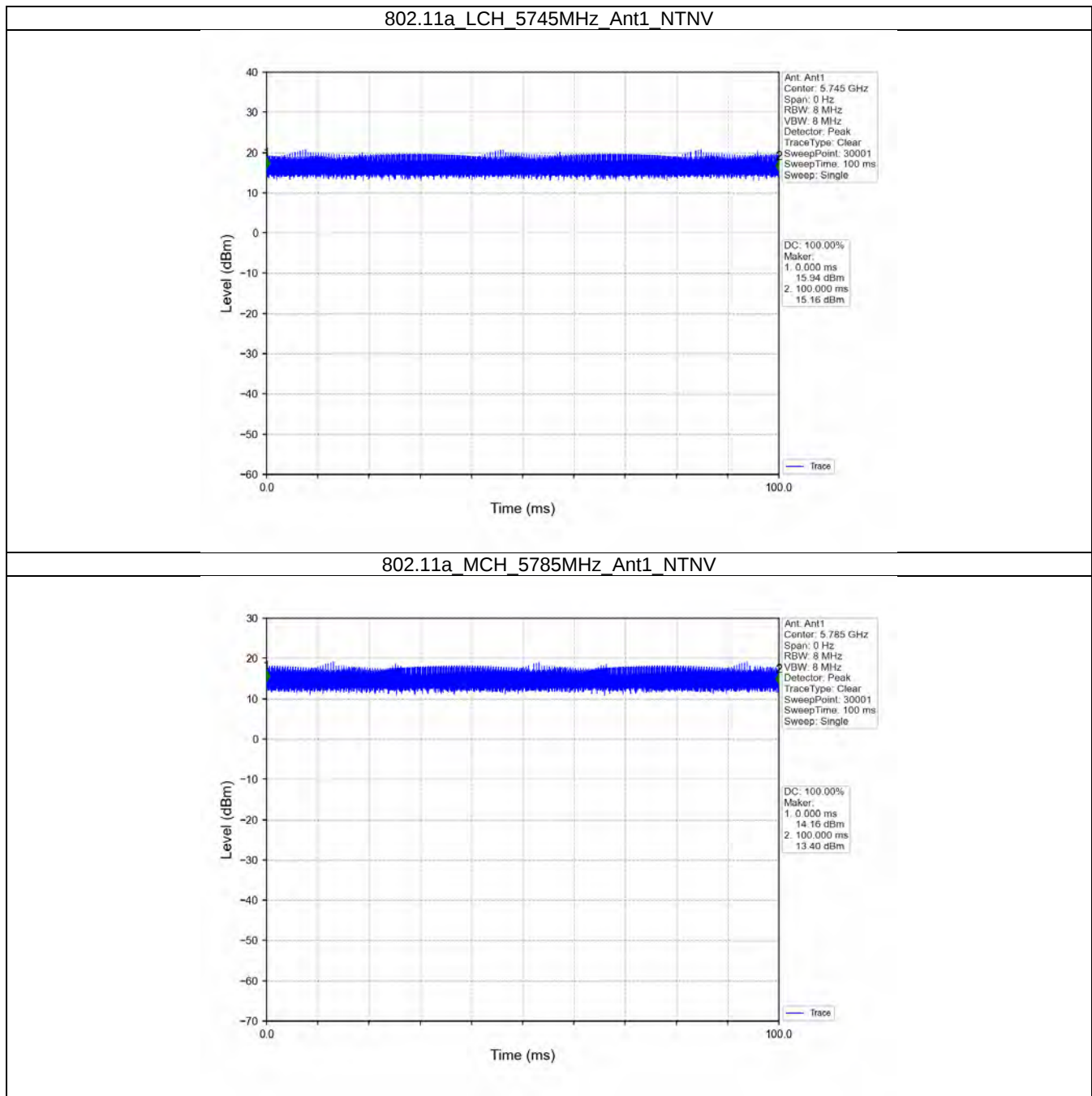
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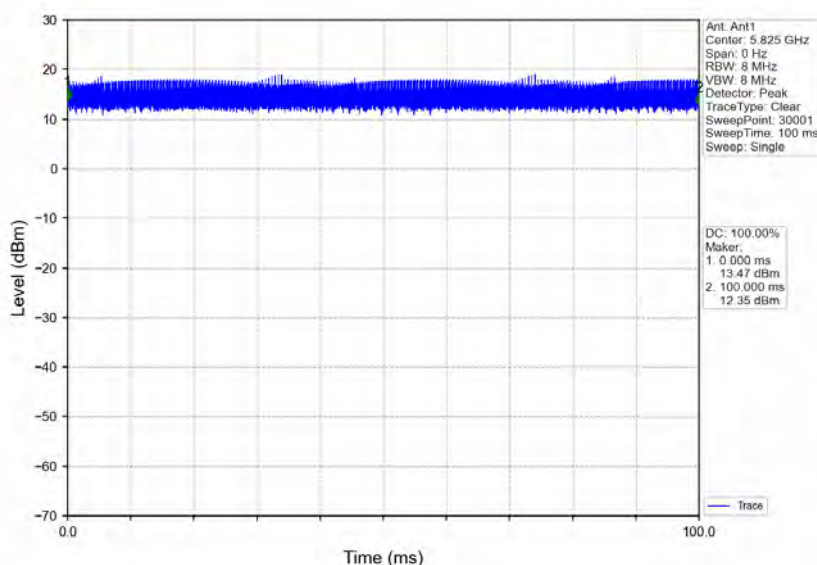
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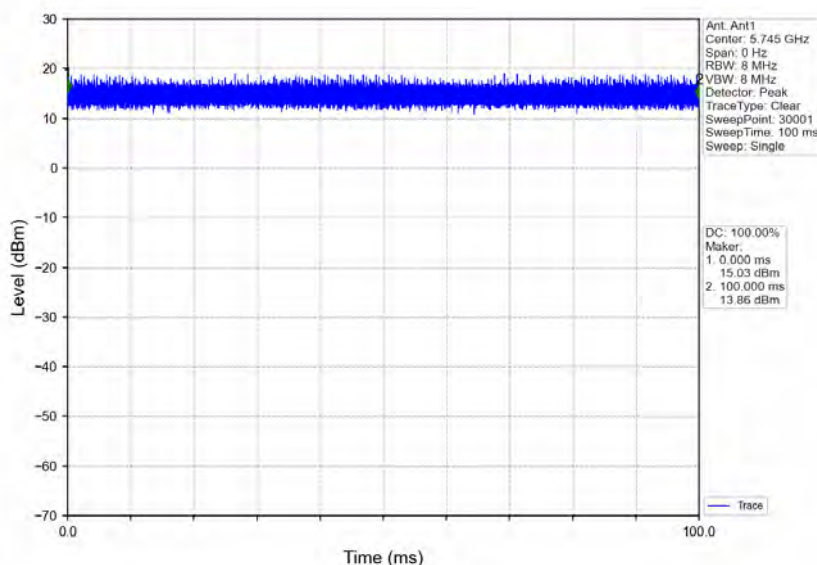
1.1.2 Test Graph



802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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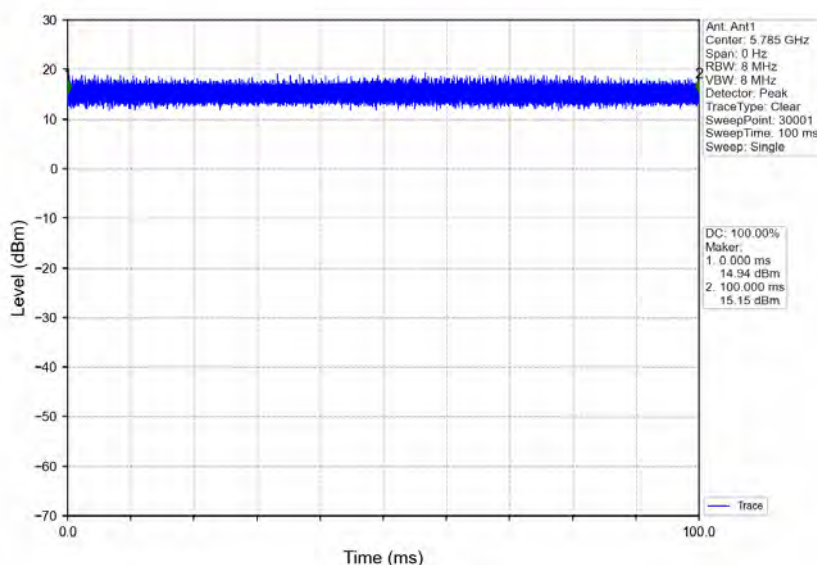
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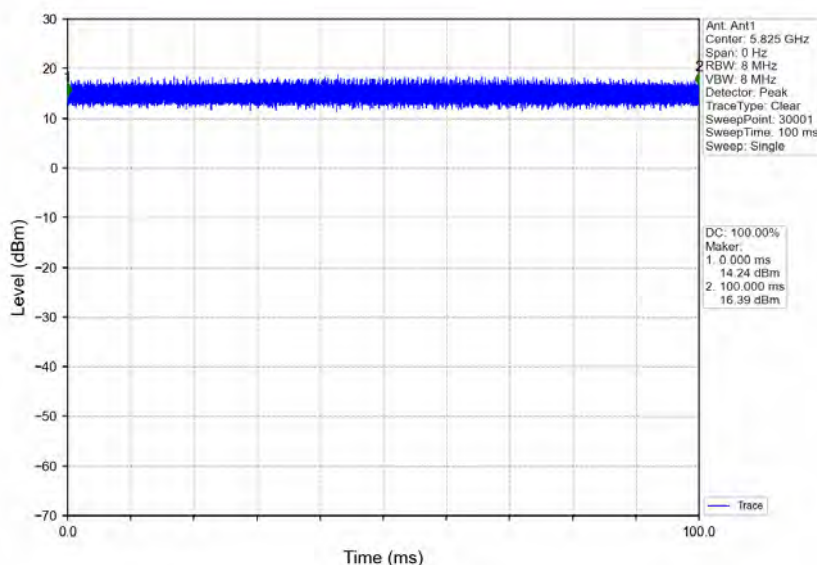
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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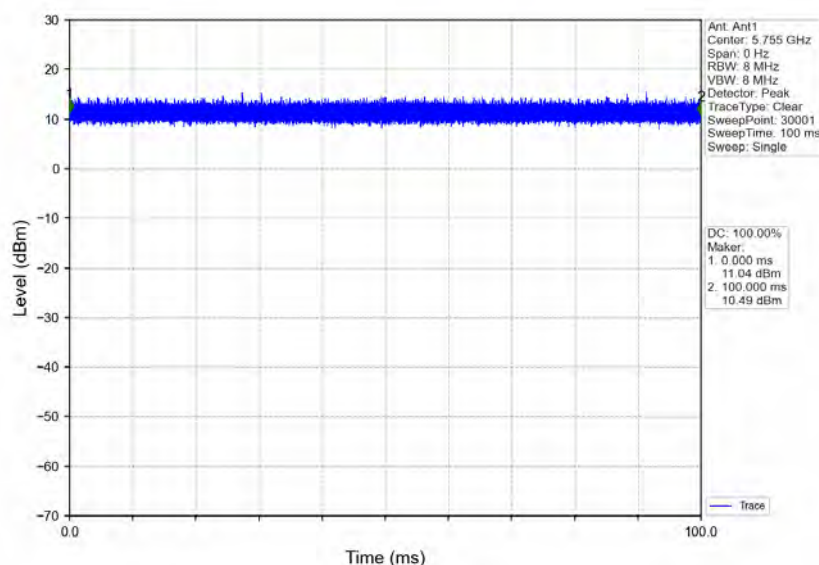
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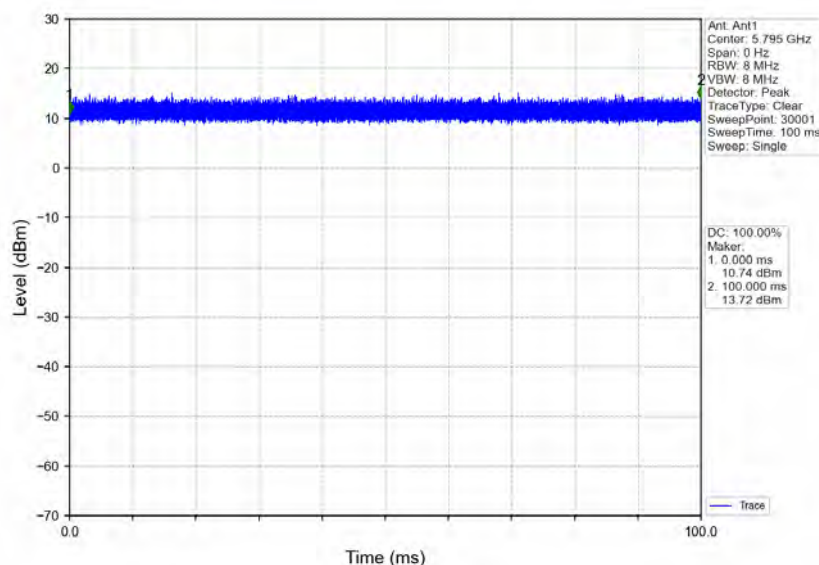
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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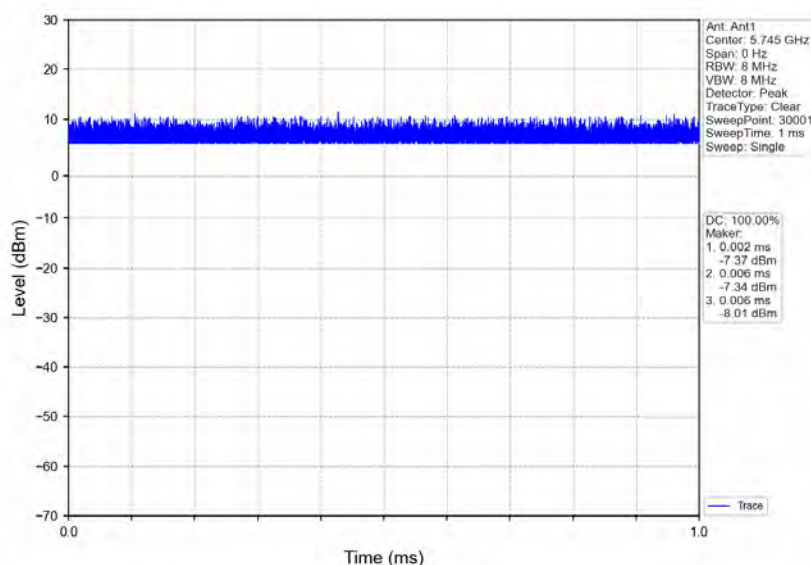
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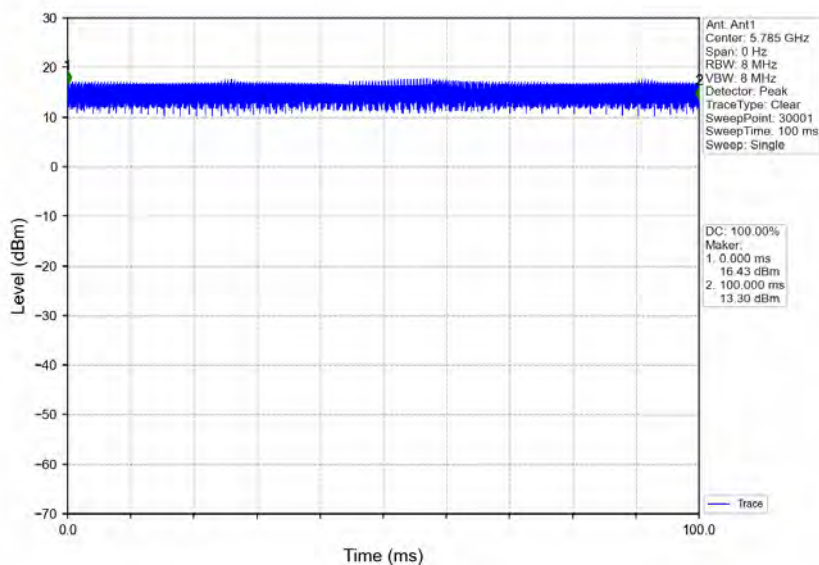
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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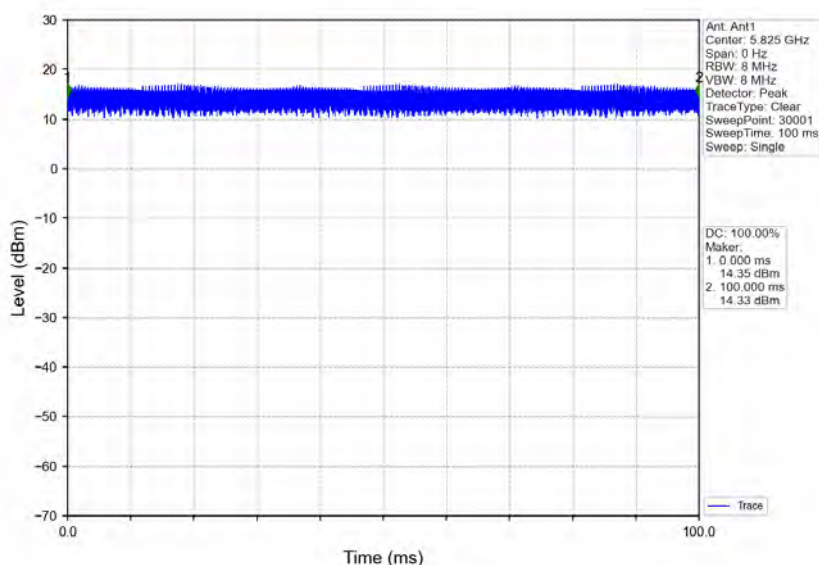
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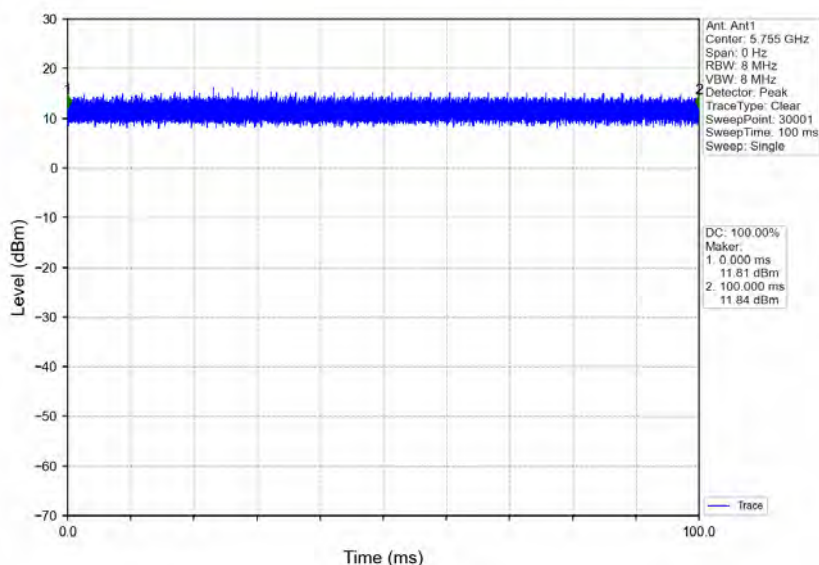
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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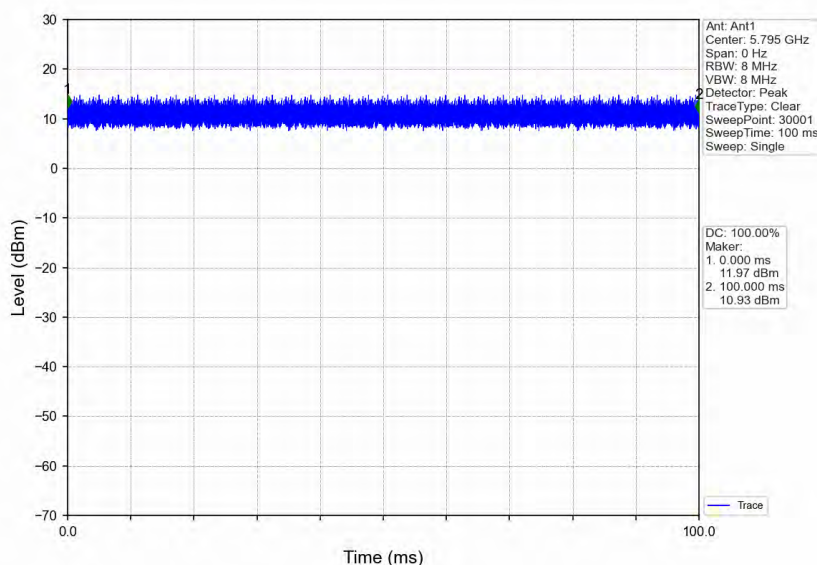
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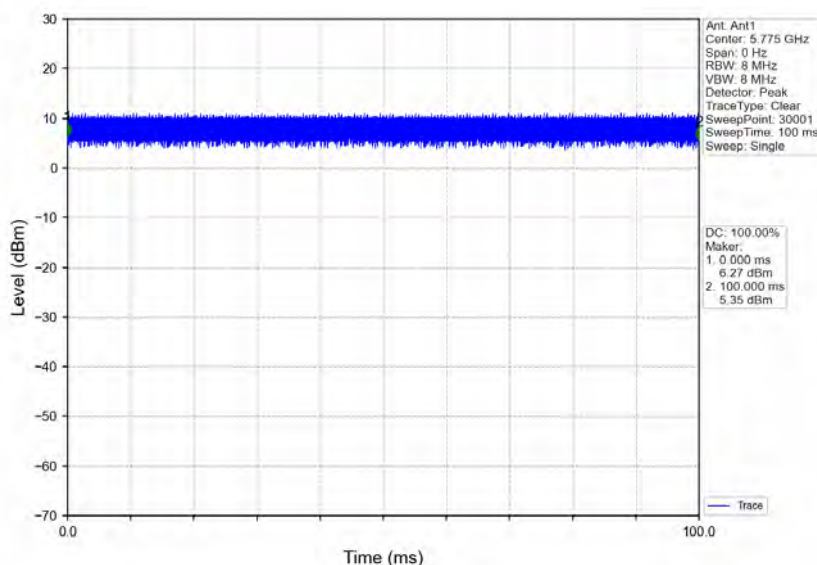
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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)	Verdict
				Result	
802.11a	SISO	5745	1	18.713	Pass
			2	17.147	Pass
		5785	1	18.496	Pass
			2	17.198	Pass
		5825	1	18.675	Pass
			2	17.188	Pass
802.11n (HT20)	MIMO	5745	1	18.725	Pass
			2	18.229	Pass
		5785	1	19.504	Pass
			2	18.236	Pass
		5825	1	19.223	Pass
			2	18.185	Pass
802.11n (HT40)	MIMO	5755	1	39.355	Pass
			2	37.944	Pass
		5795	1	43.492	Pass
			2	37.974	Pass
802.11ac (VHT20)	MIMO	5745	1	18.802	Pass
			2	17.138	Pass
		5785	1	18.252	Pass
			2	17.111	Pass
		5825	1	18.465	Pass
			2	17.089	Pass
802.11ac (VHT40)	MIMO	5755	1	38.965	Pass
			2	40.665	Pass
		5795	1	40.086	Pass
			2	42.263	Pass
802.11ac (VHT80)	MIMO	5775	1	80.331	Pass
			2	76.930	Pass



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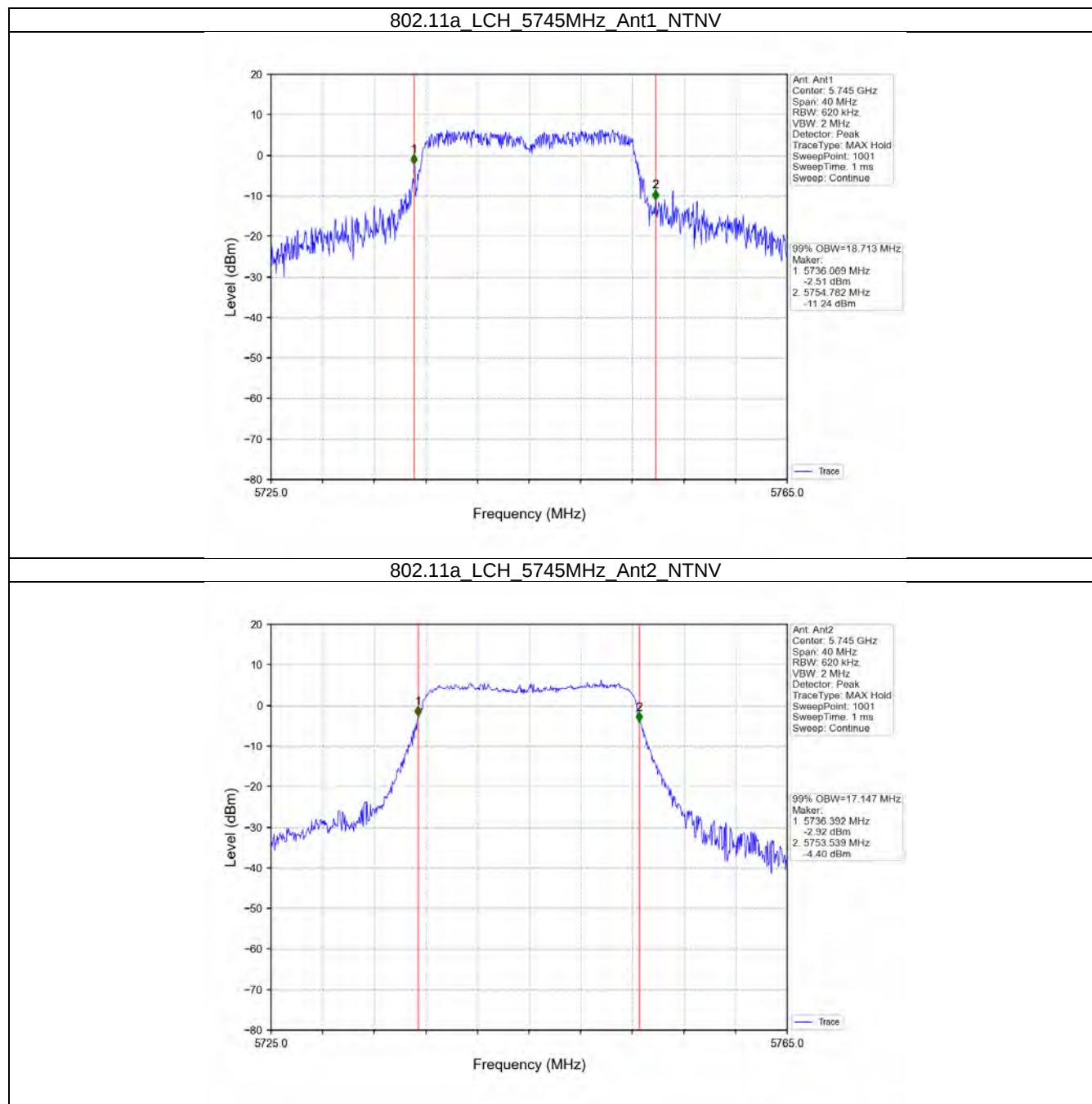
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2.1.2 Test Graph



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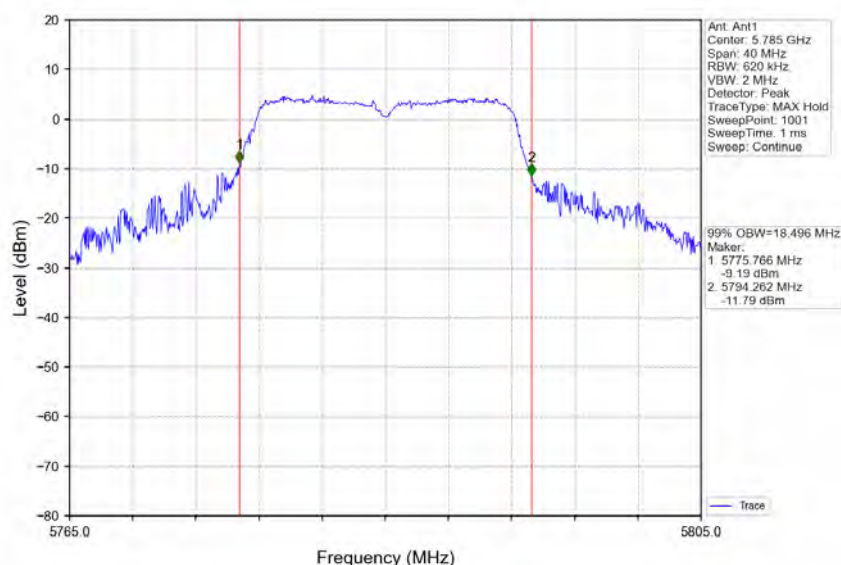
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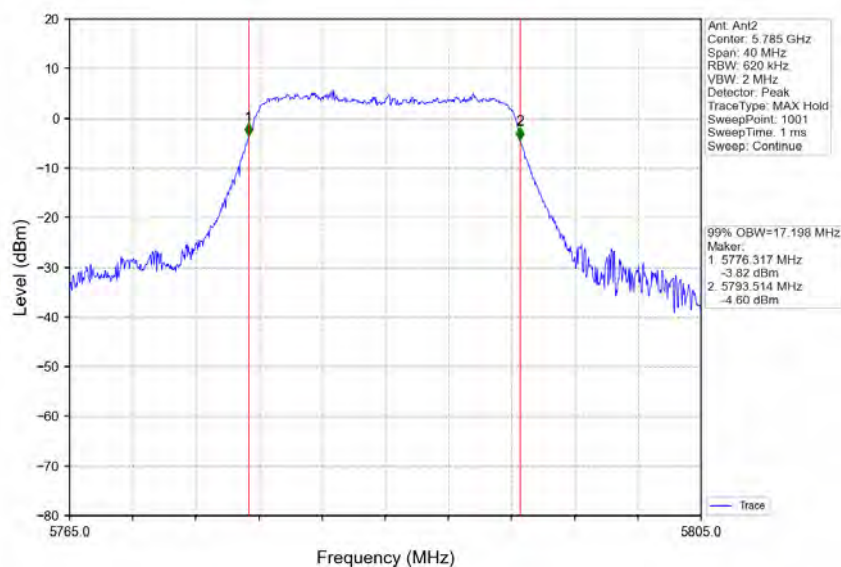
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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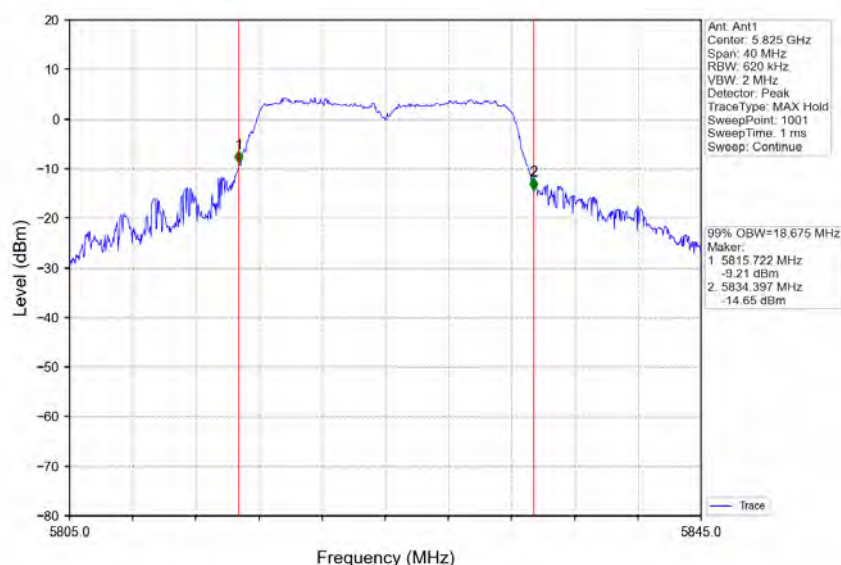
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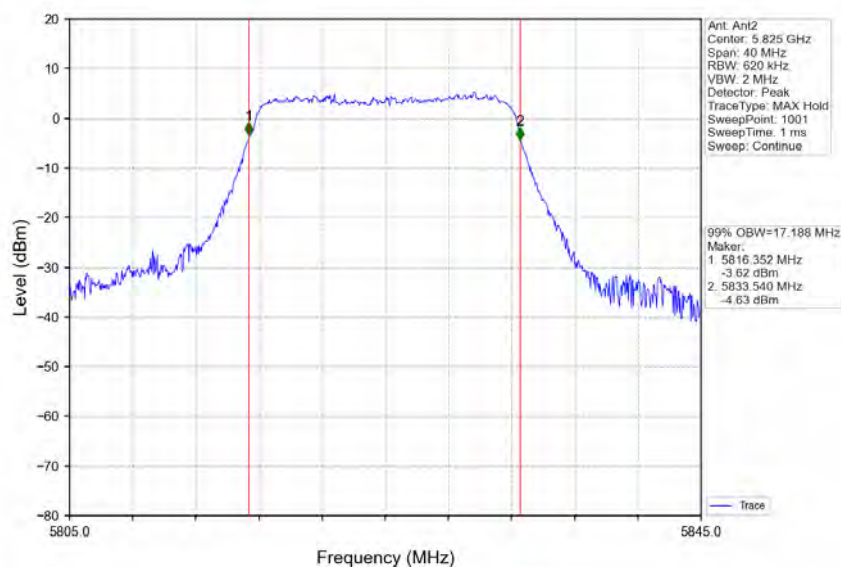
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



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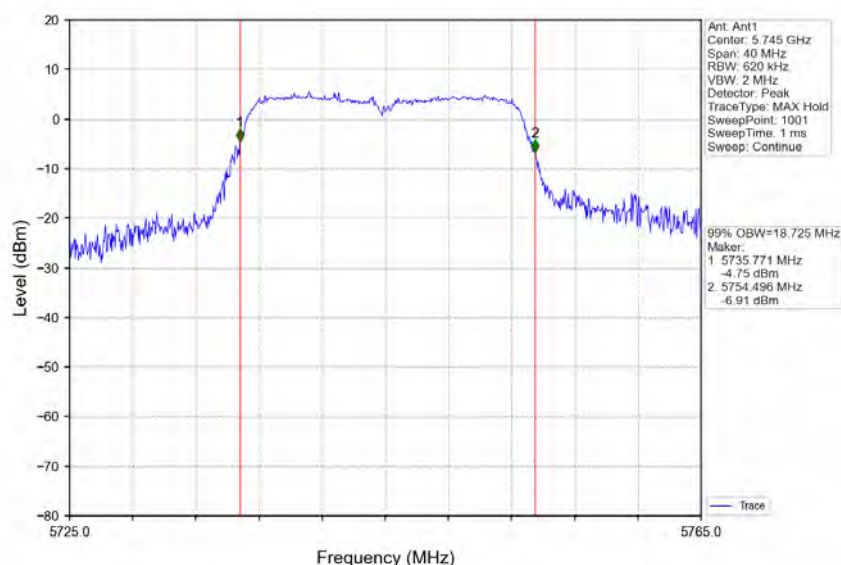
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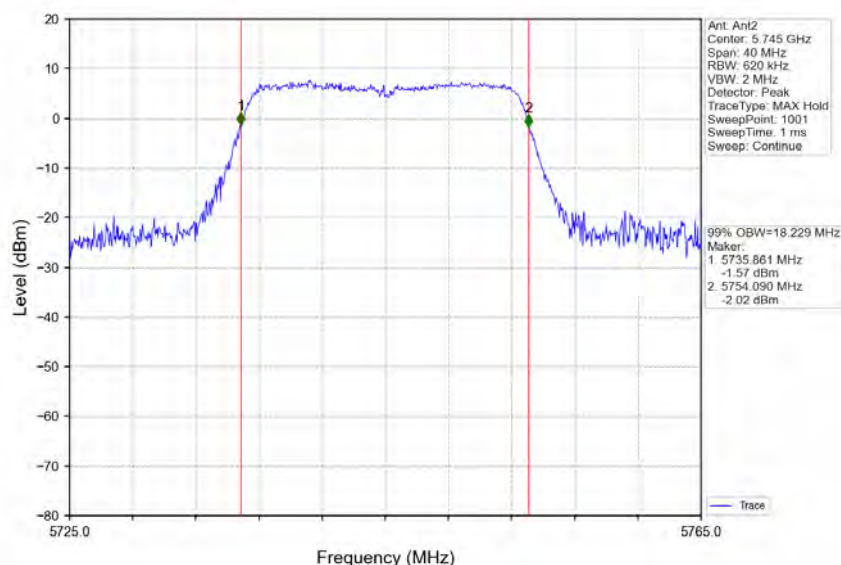
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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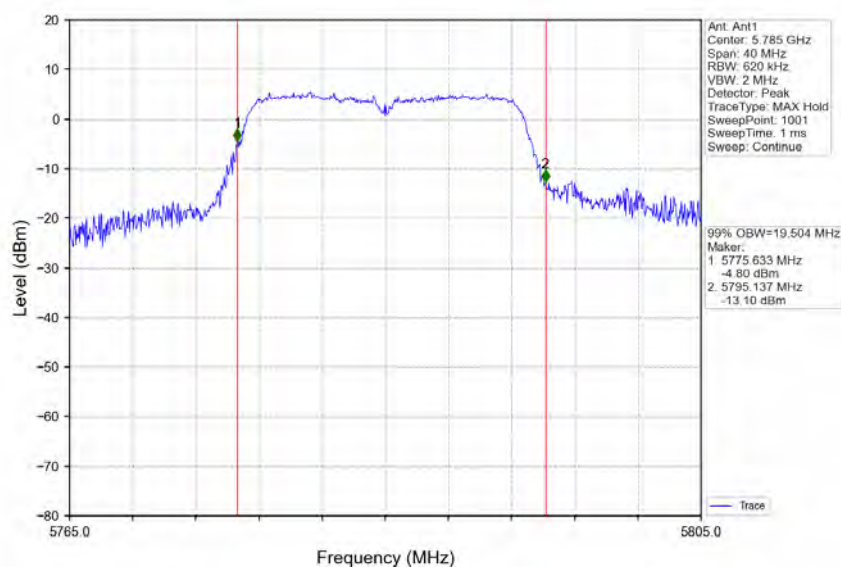
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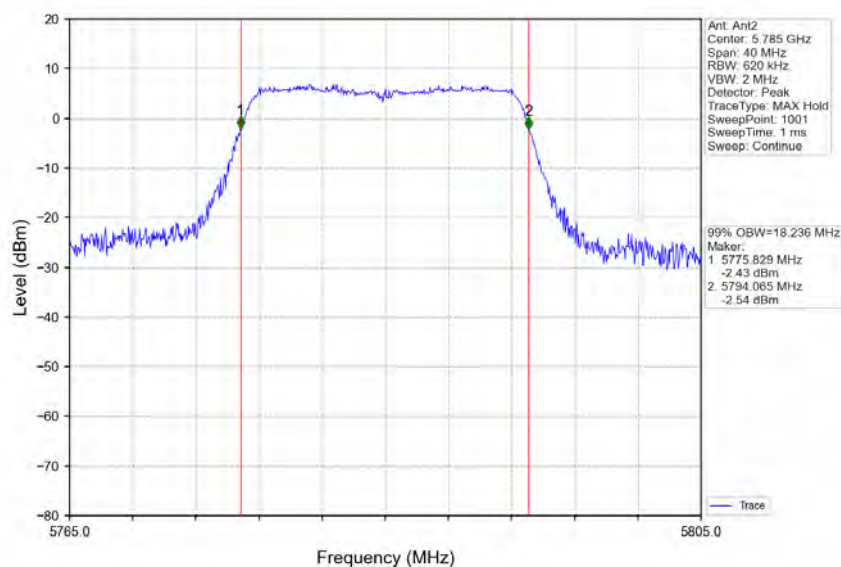
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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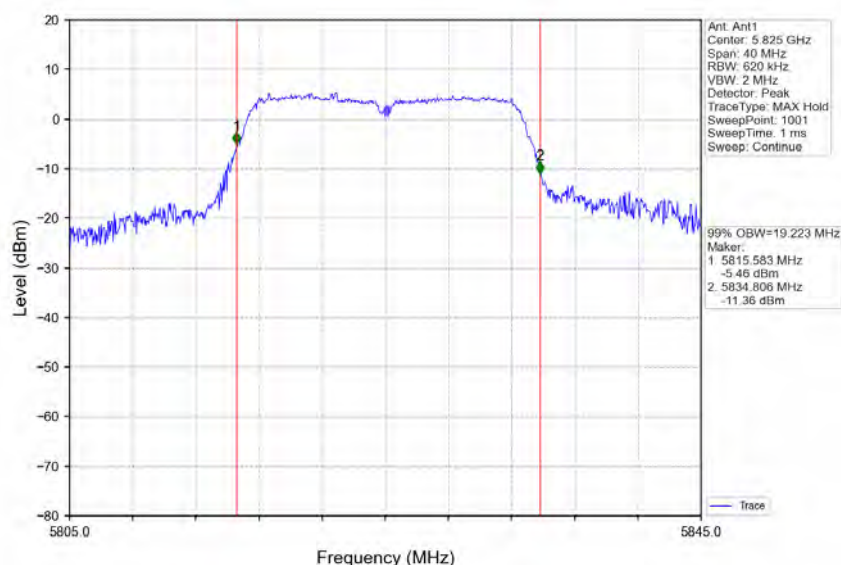
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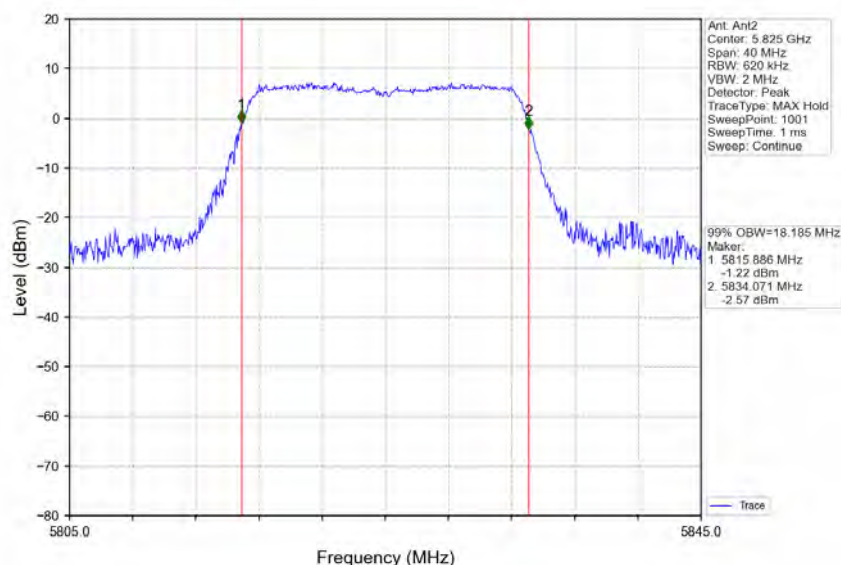
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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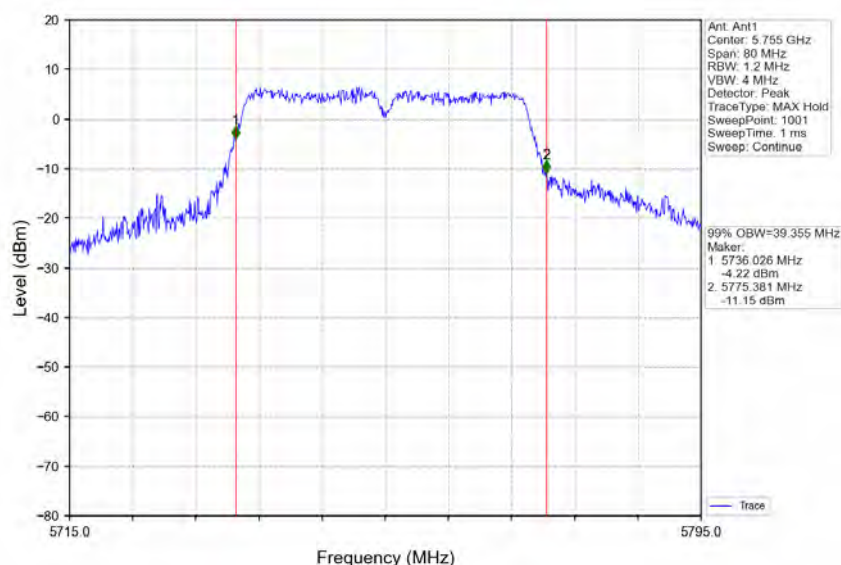
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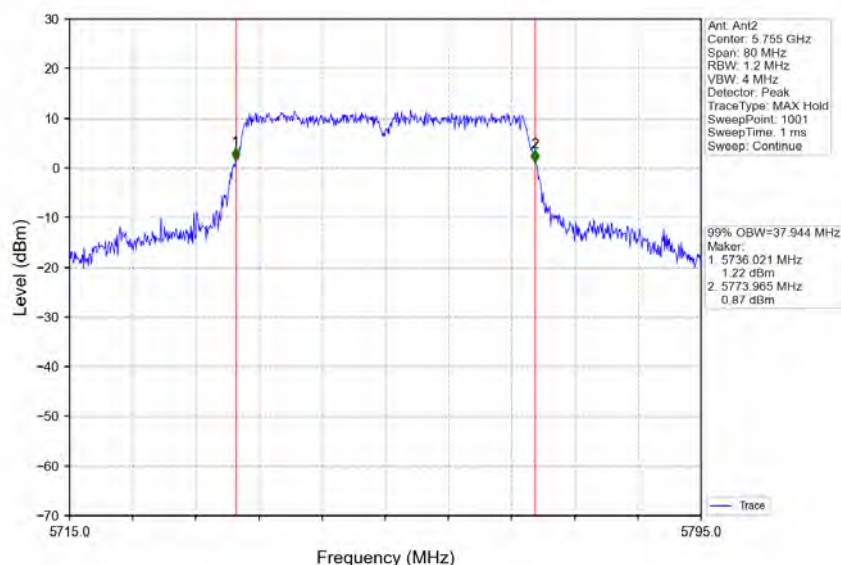
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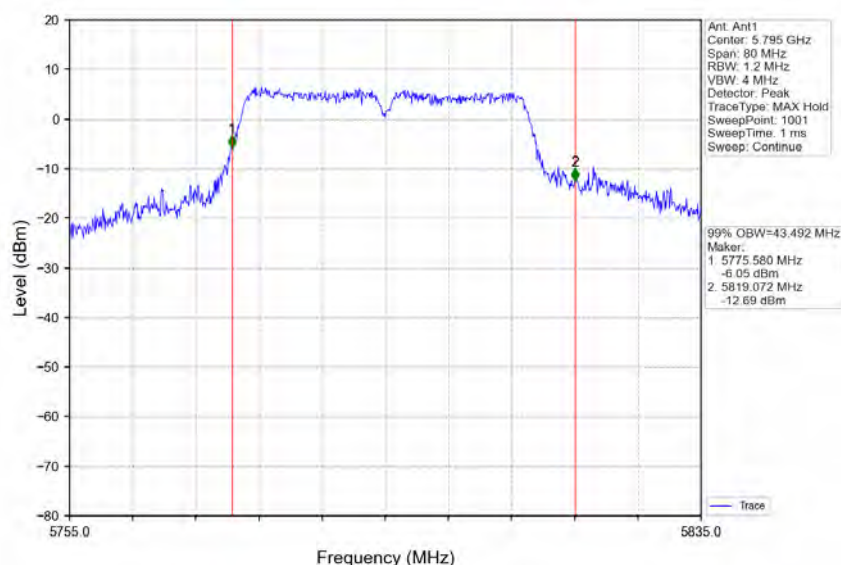
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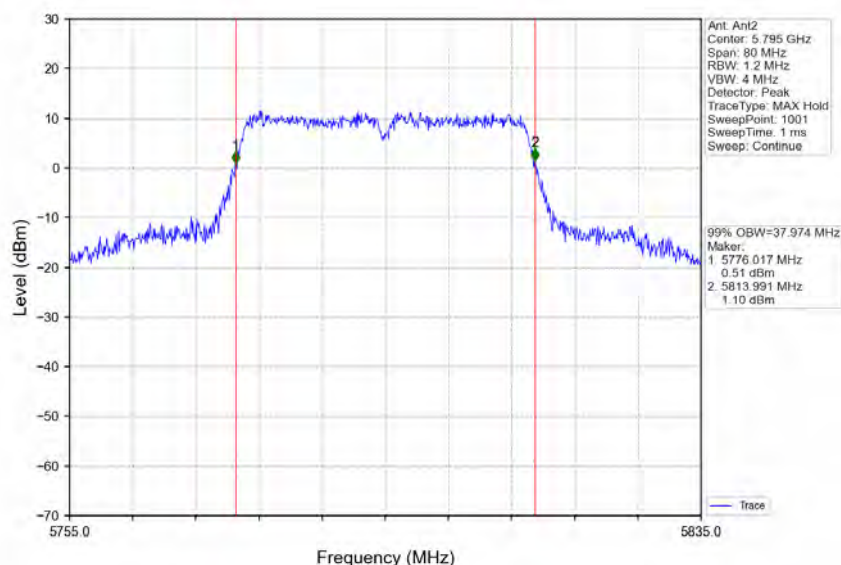
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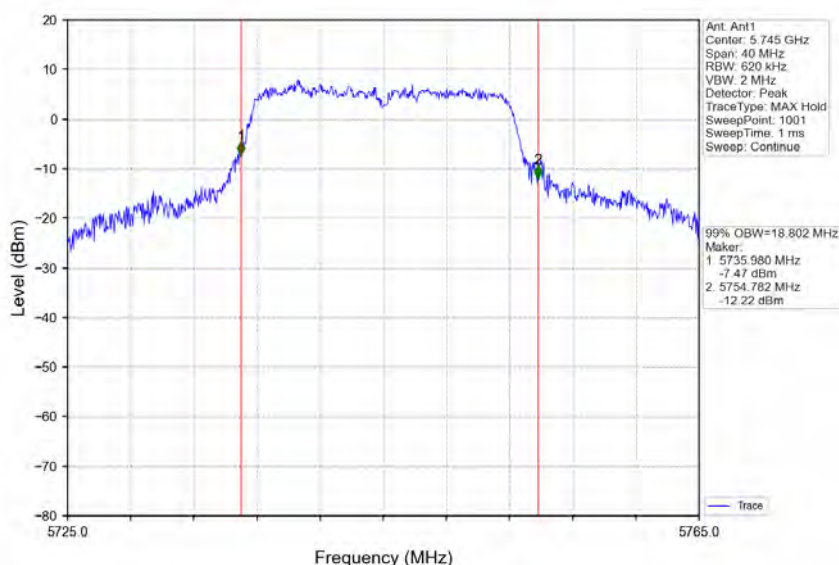
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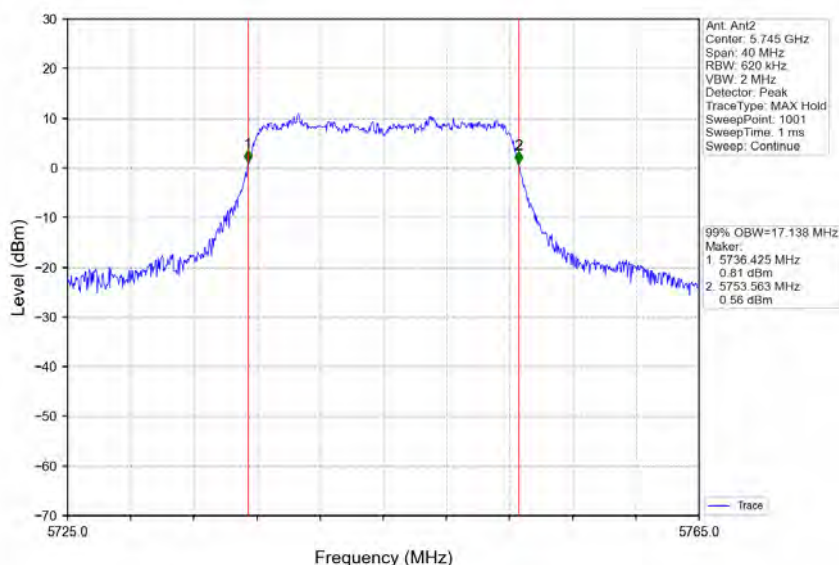
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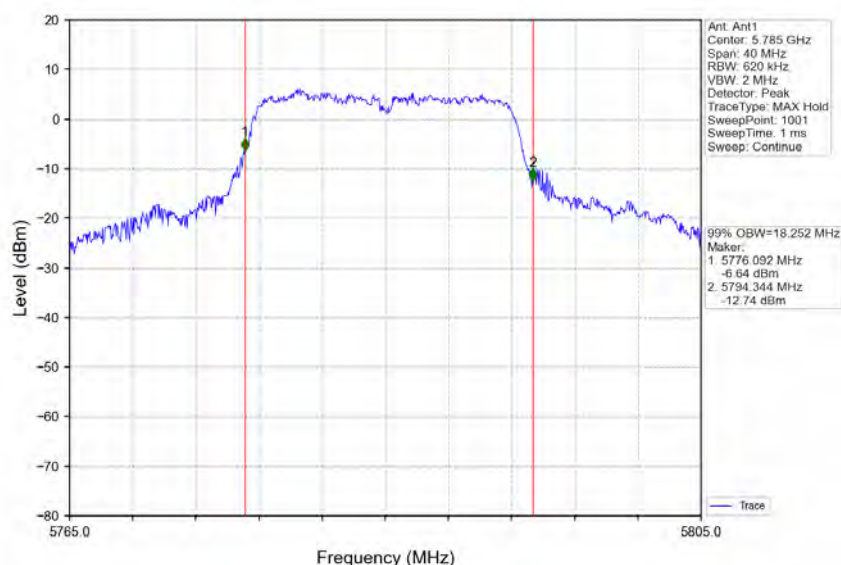
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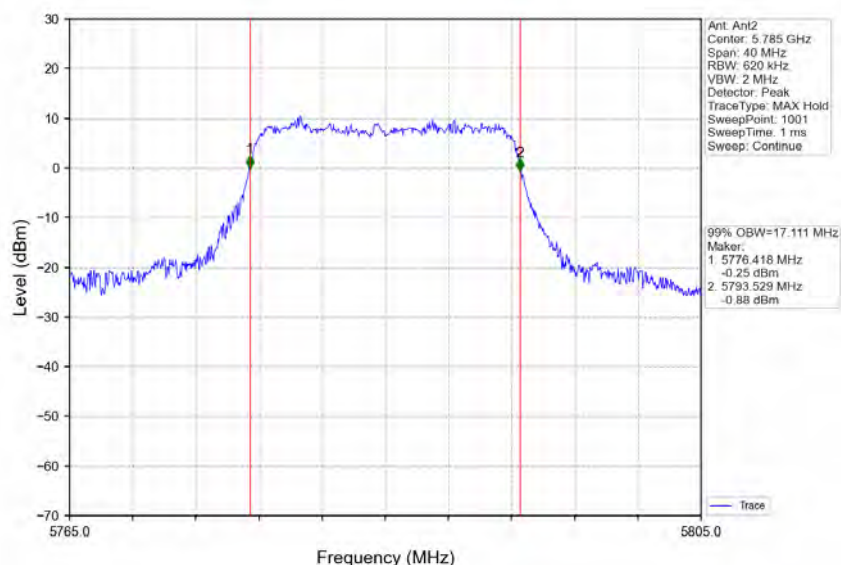
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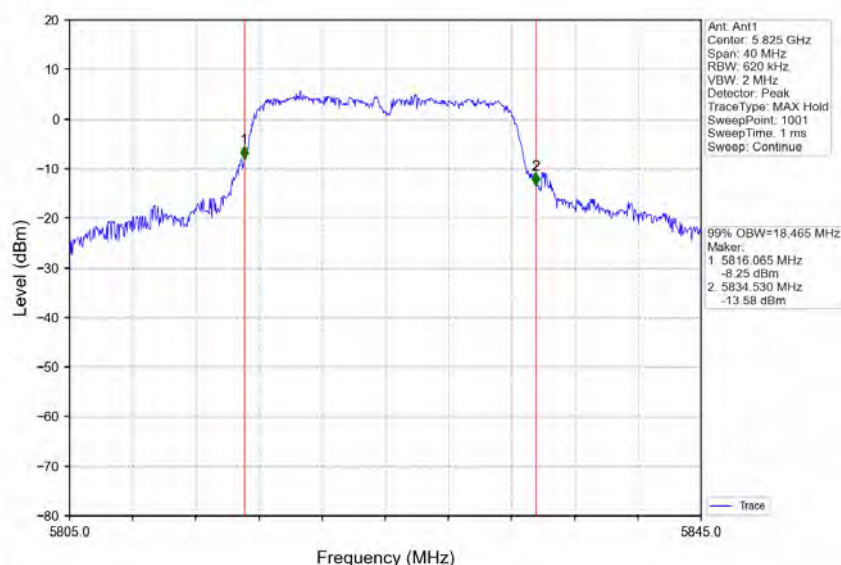
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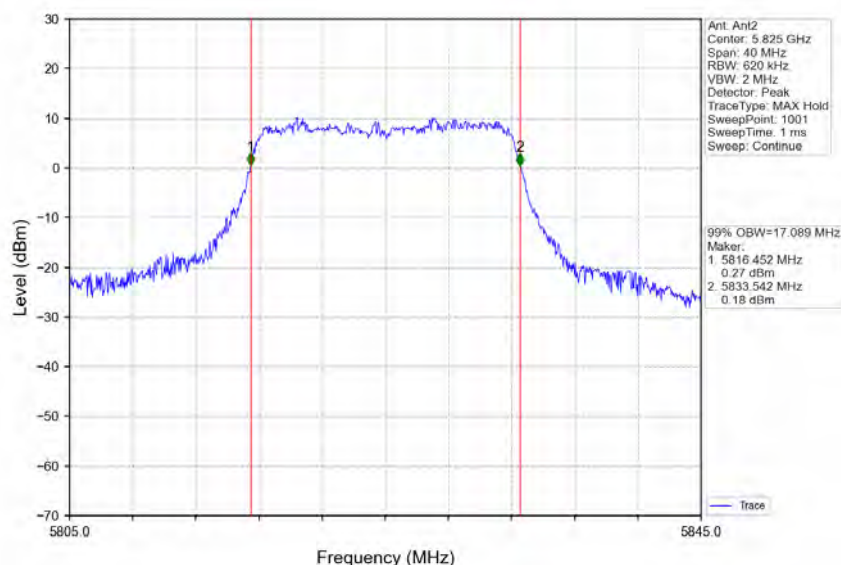
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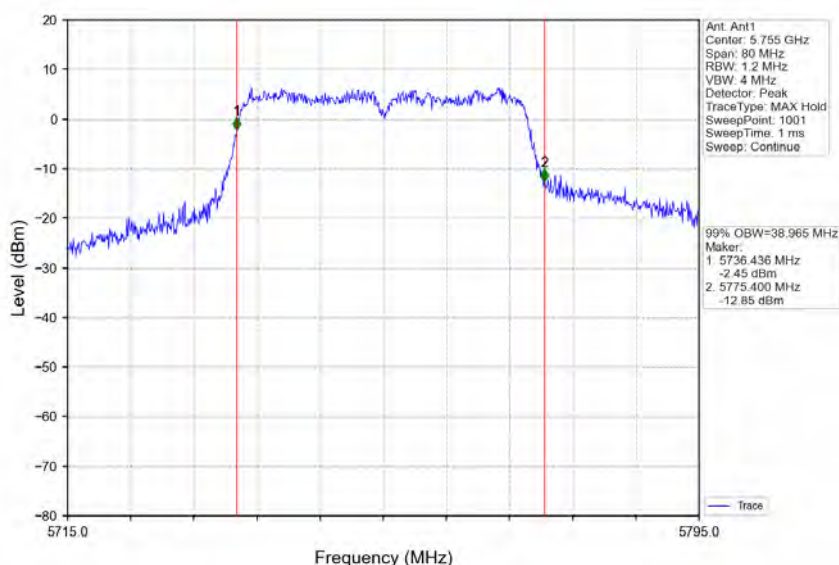
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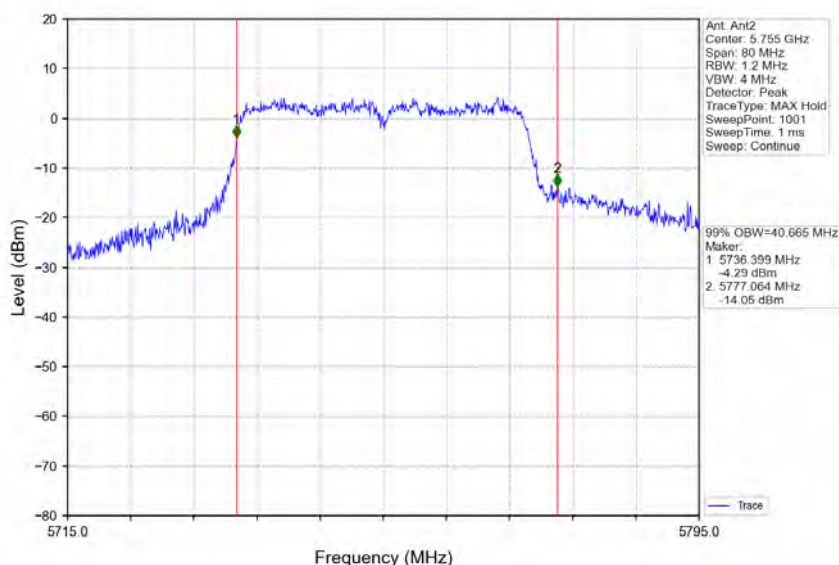
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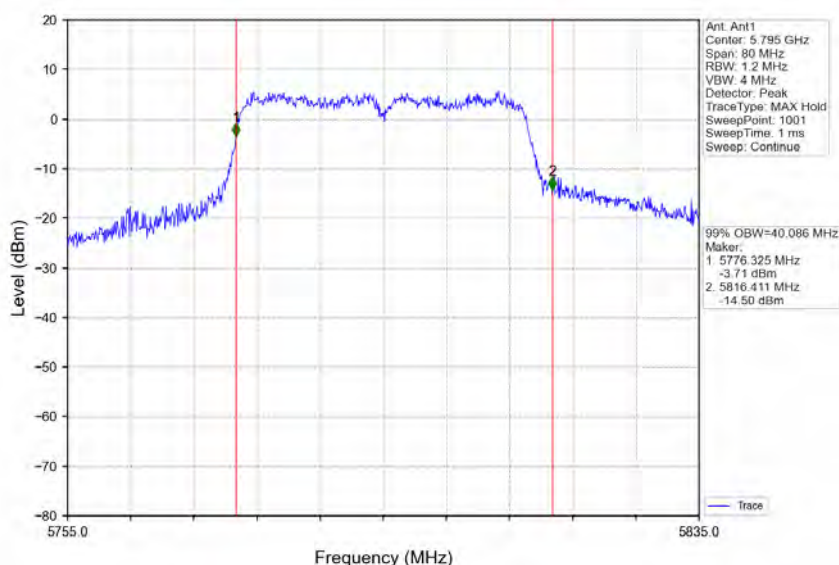
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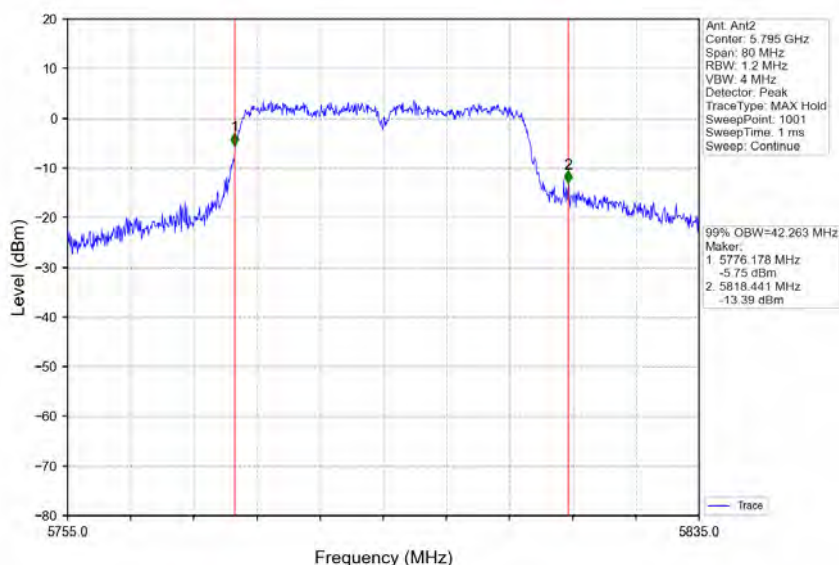
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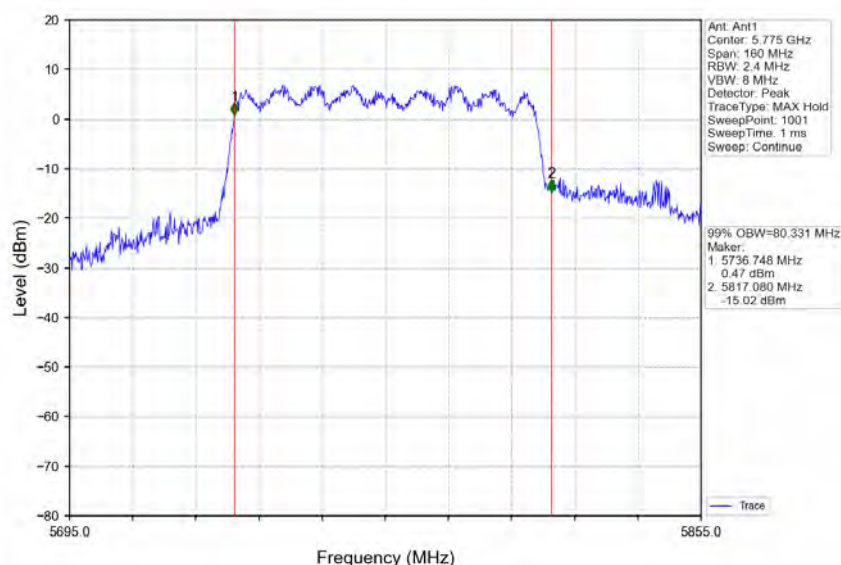
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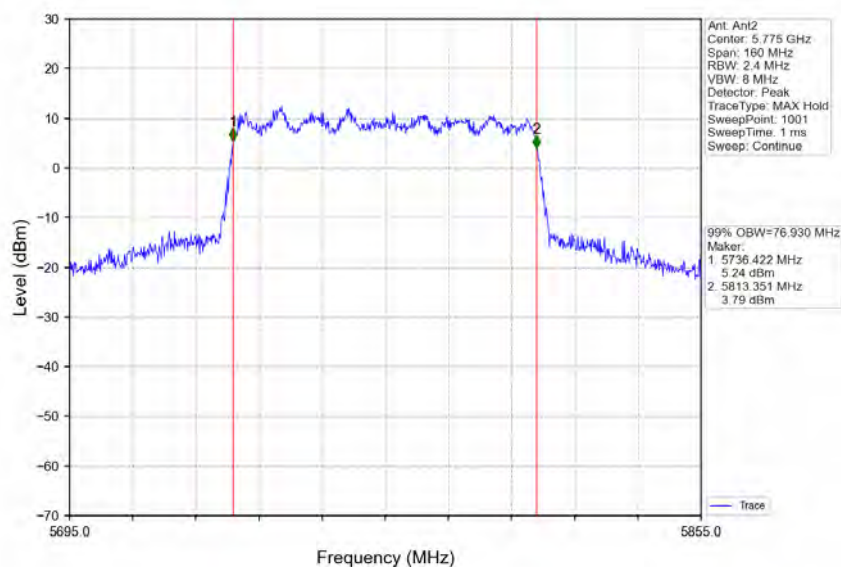
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2.2 6dB BW

2.2.1 Test Result

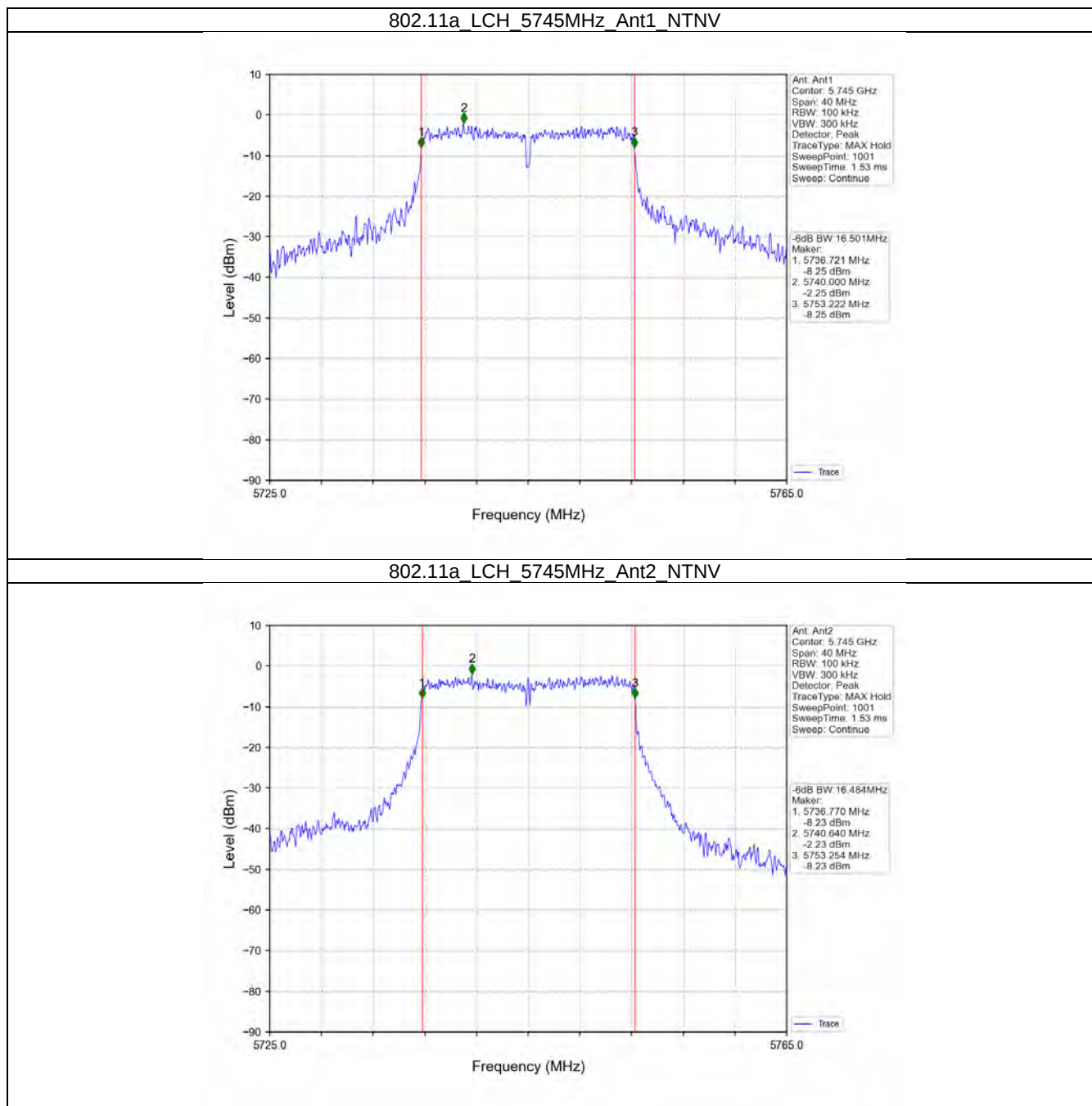
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.501	≥ 0.5	Pass
			2	16.484	≥ 0.5	Pass
		5785	1	16.524	≥ 0.5	Pass
			2	16.444	≥ 0.5	Pass
		5825	1	16.502	≥ 0.5	Pass
			2	16.527	≥ 0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.696	≥ 0.5	Pass
			2	17.641	≥ 0.5	Pass
		5785	1	17.715	≥ 0.5	Pass
			2	17.651	≥ 0.5	Pass
		5825	1	17.661	≥ 0.5	Pass
			2	17.632	≥ 0.5	Pass
802.11n (HT40)	MIMO	5755	1	36.520	≥ 0.5	Pass
			2	36.493	≥ 0.5	Pass
		5795	1	36.499	≥ 0.5	Pass
			2	36.562	≥ 0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	16.486	≥ 0.5	Pass
			2	16.492	≥ 0.5	Pass
		5785	1	16.474	≥ 0.5	Pass
			2	16.517	≥ 0.5	Pass
		5825	1	16.501	≥ 0.5	Pass
			2	16.468	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	36.503	≥ 0.5	Pass
			2	36.550	≥ 0.5	Pass
		5795	1	36.491	≥ 0.5	Pass
			2	36.501	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	76.347	≥ 0.5	Pass
			2	75.810	≥ 0.5	Pass



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2.2.2 Test Graph



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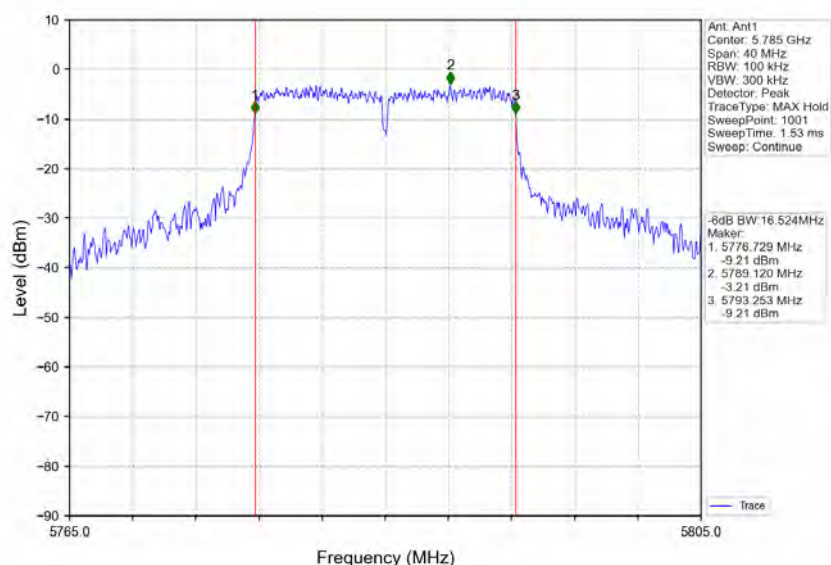
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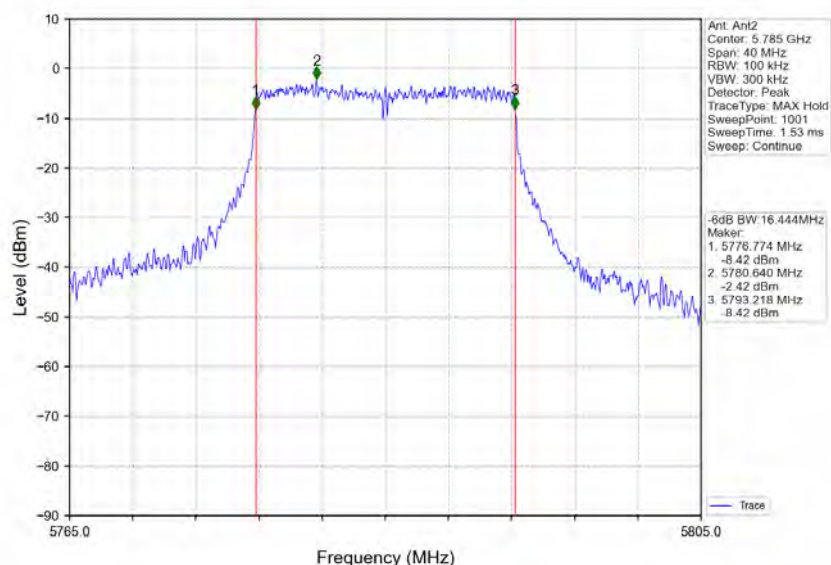
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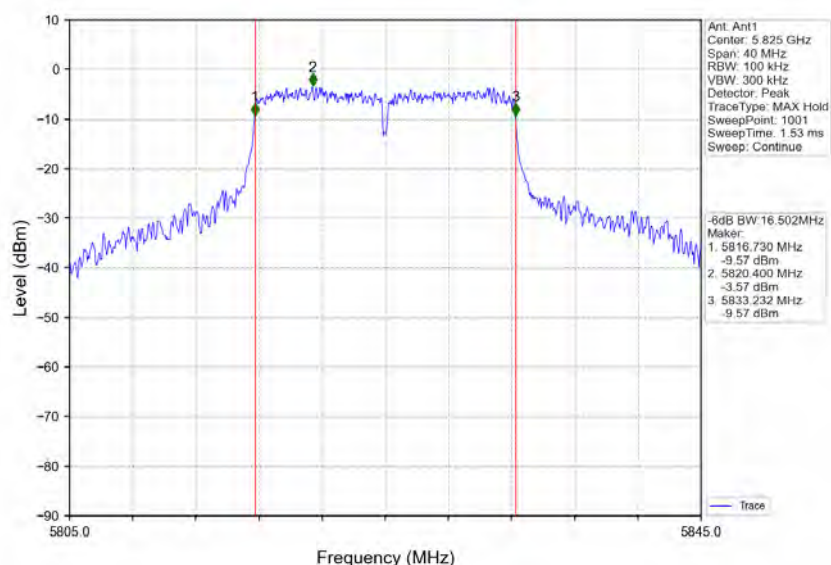
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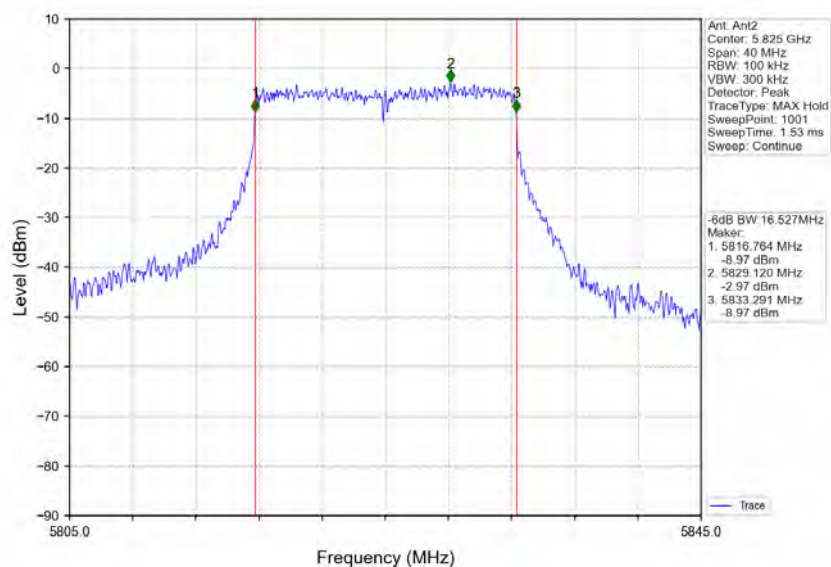
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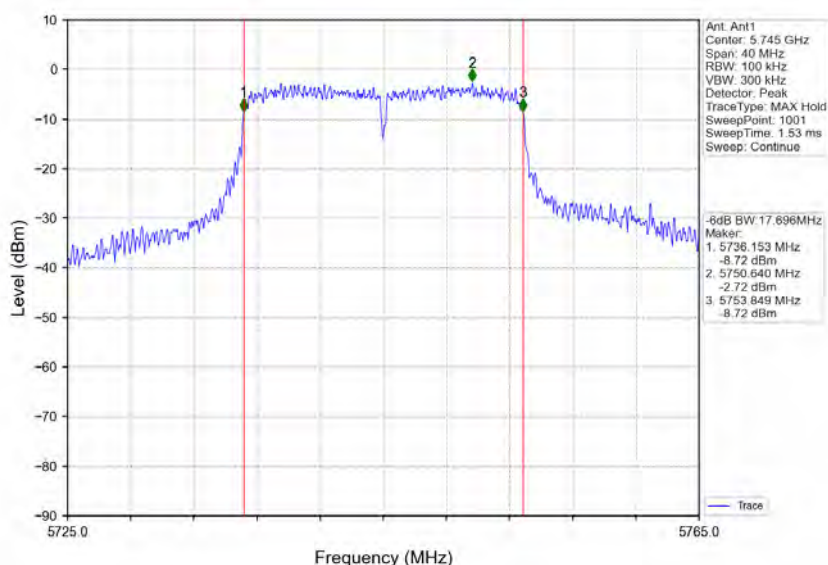
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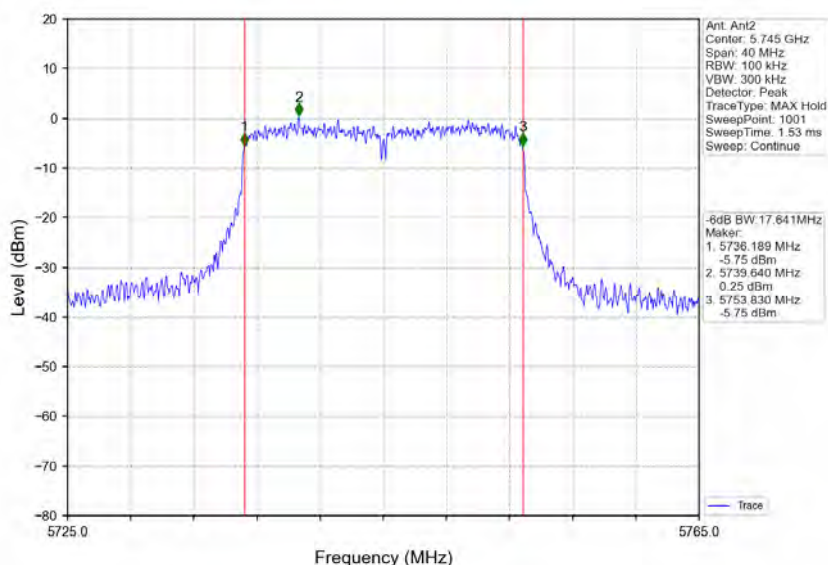
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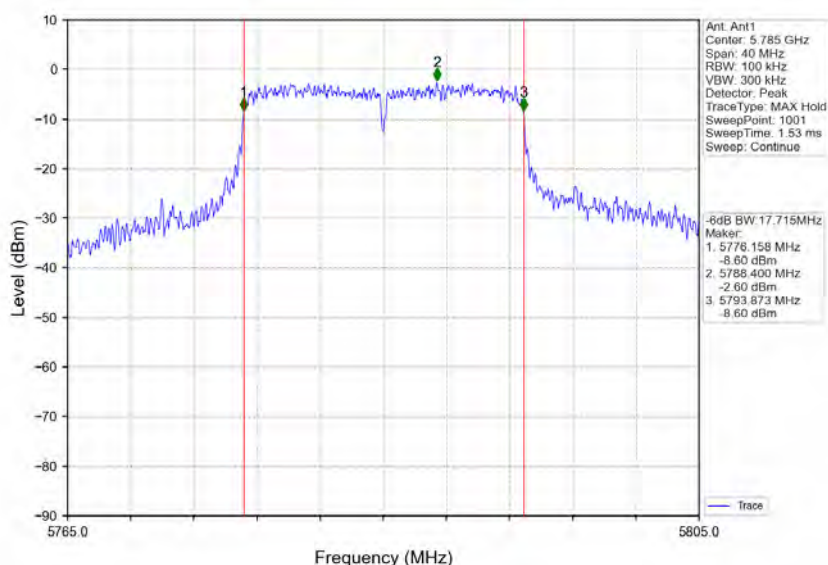
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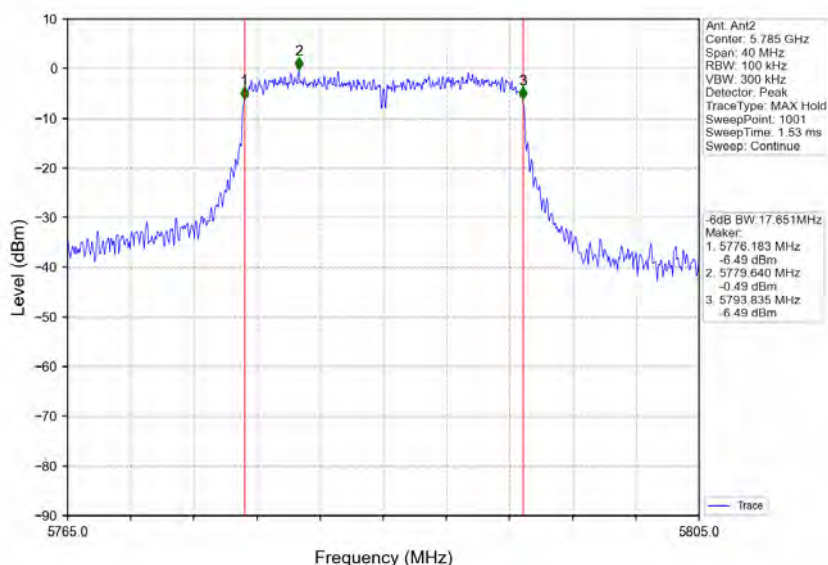
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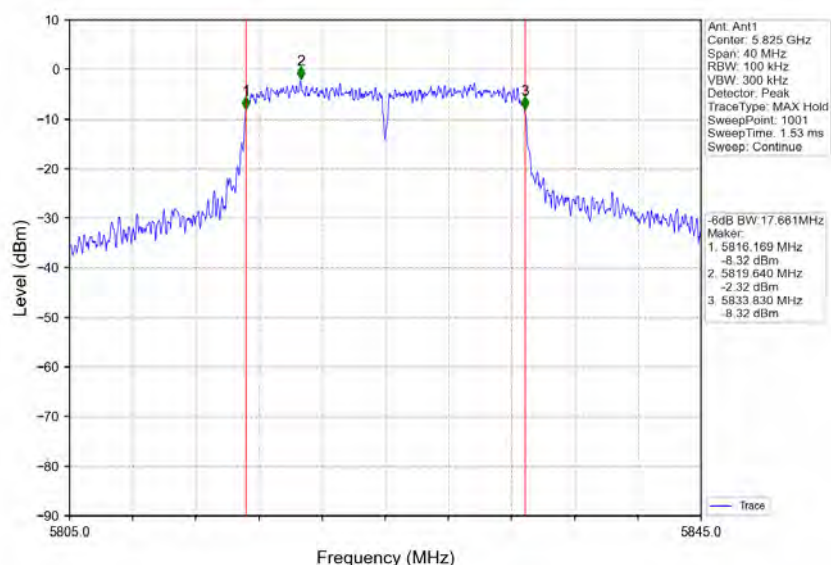
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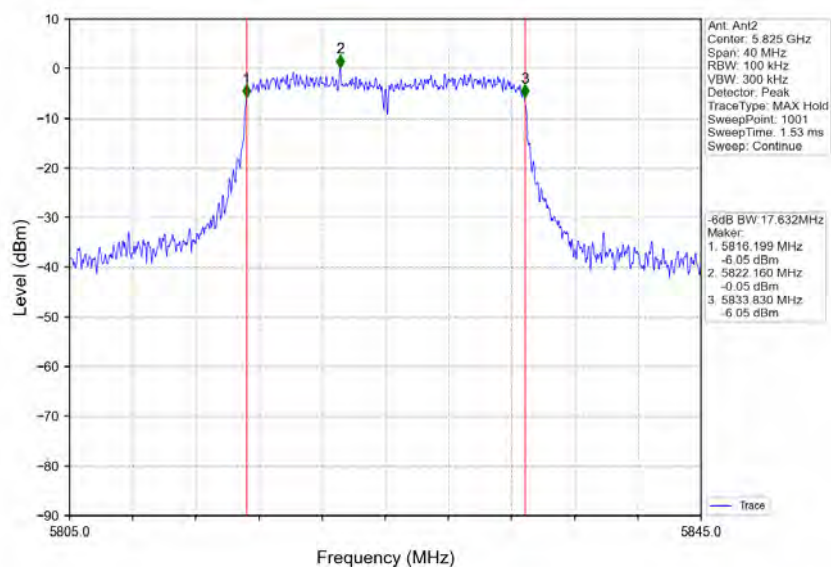
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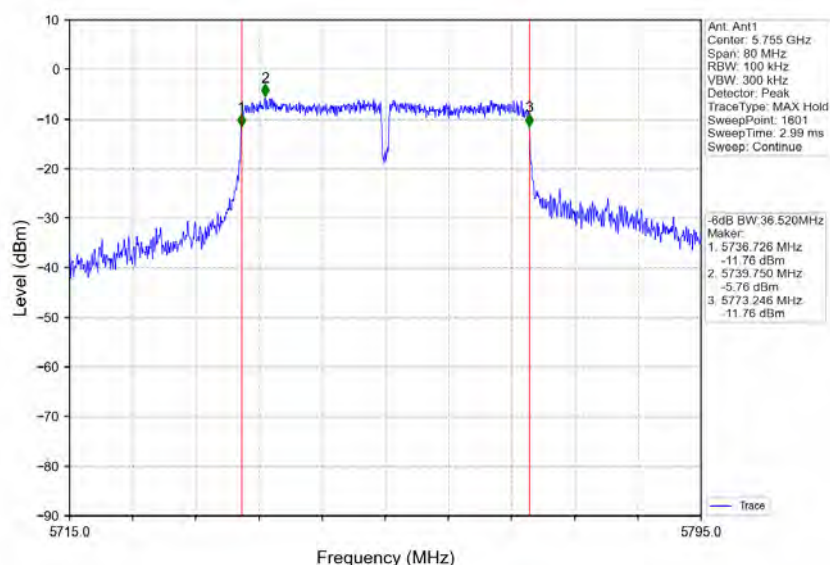
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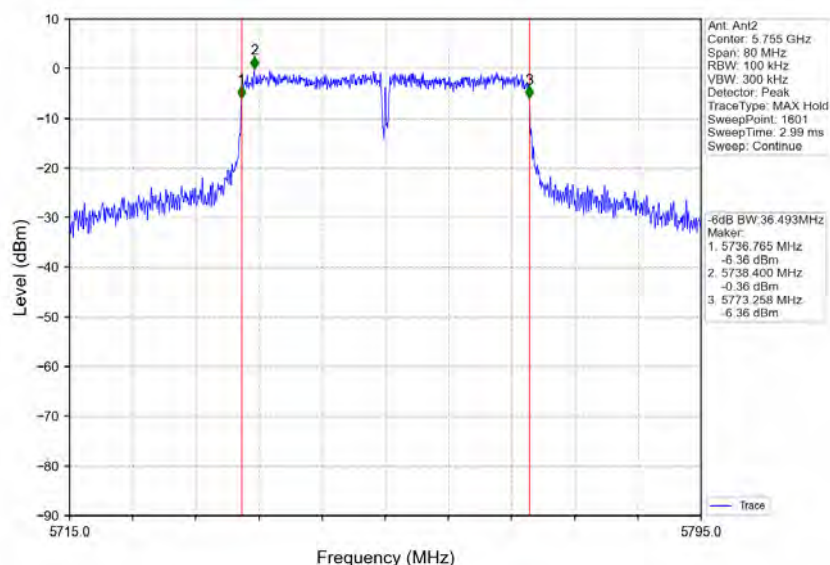
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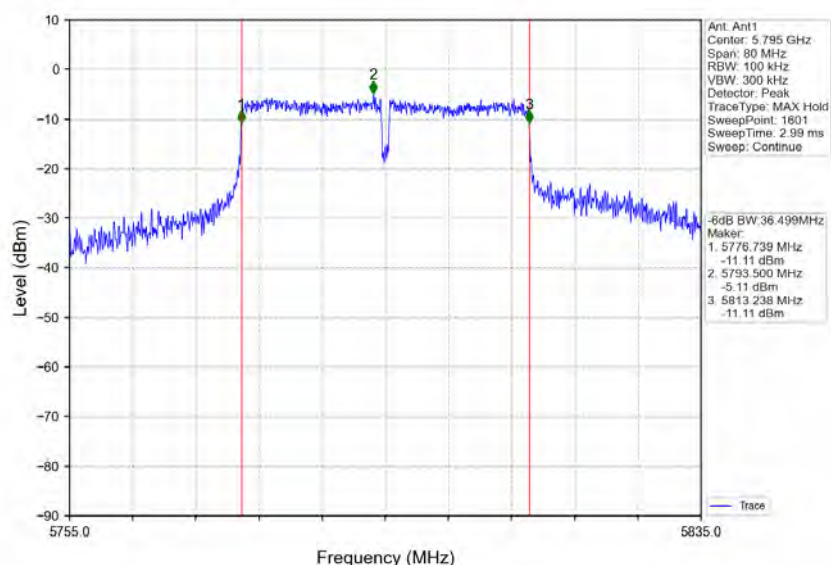
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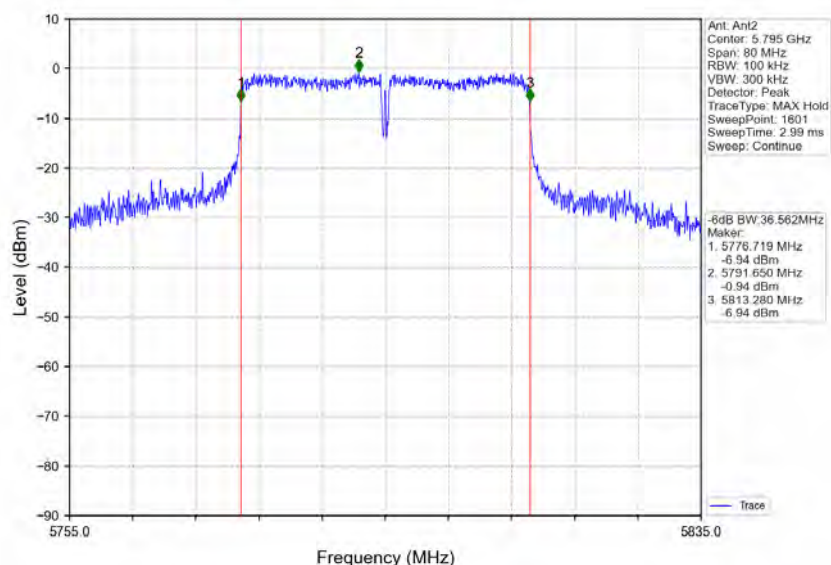
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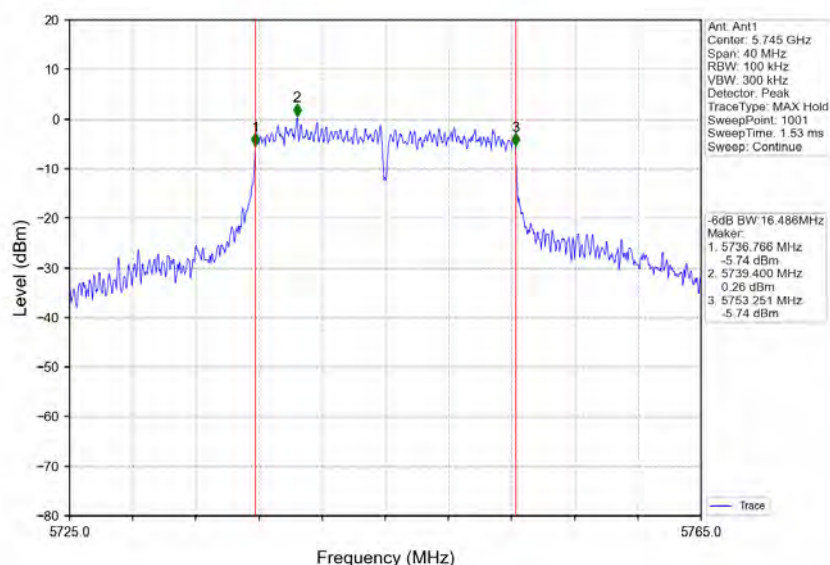
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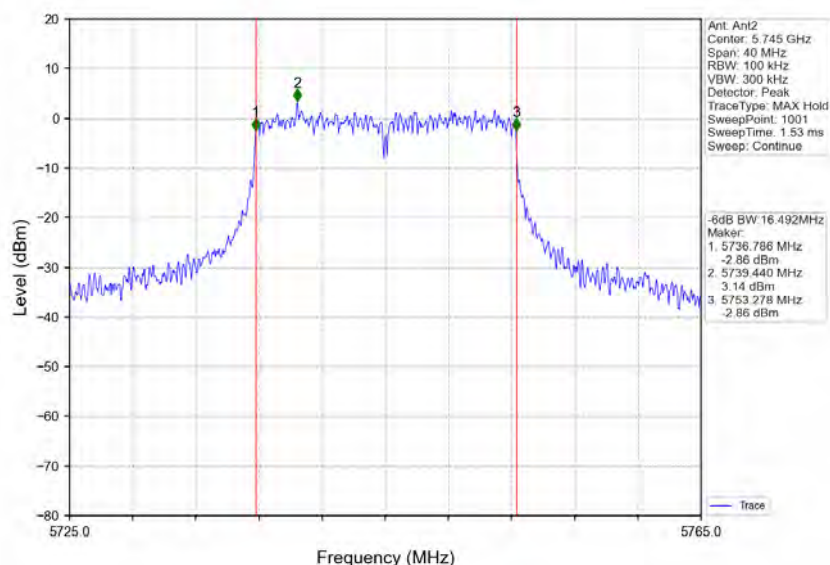
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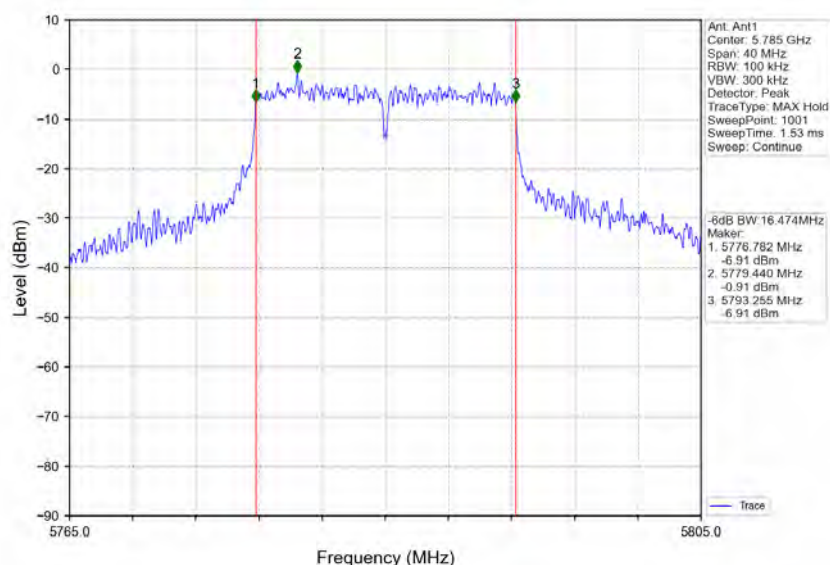
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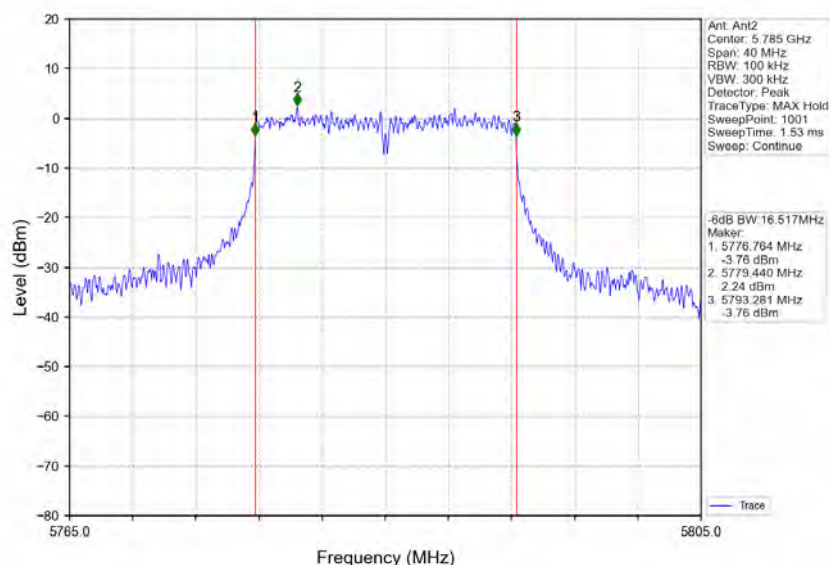
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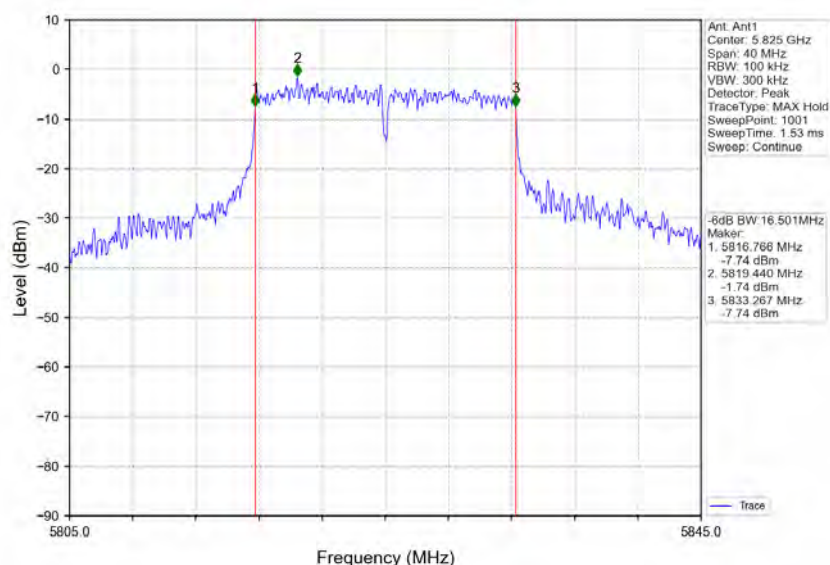
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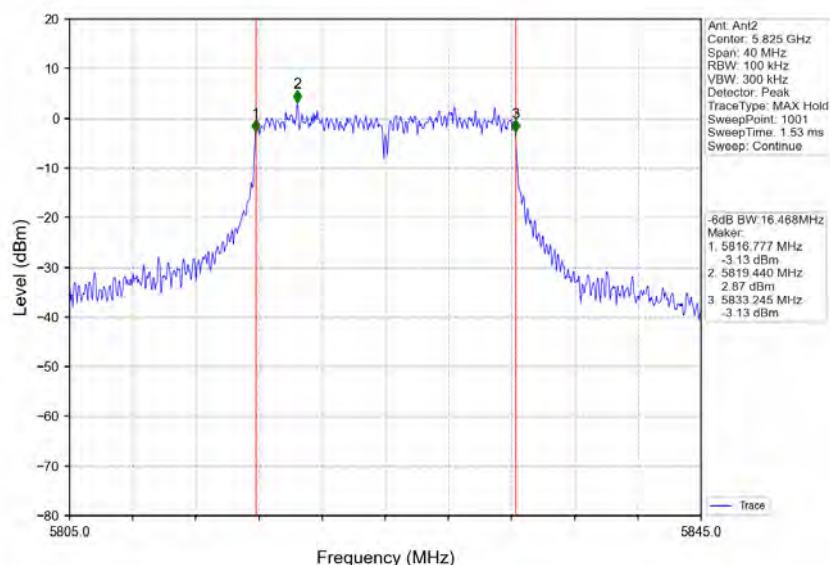
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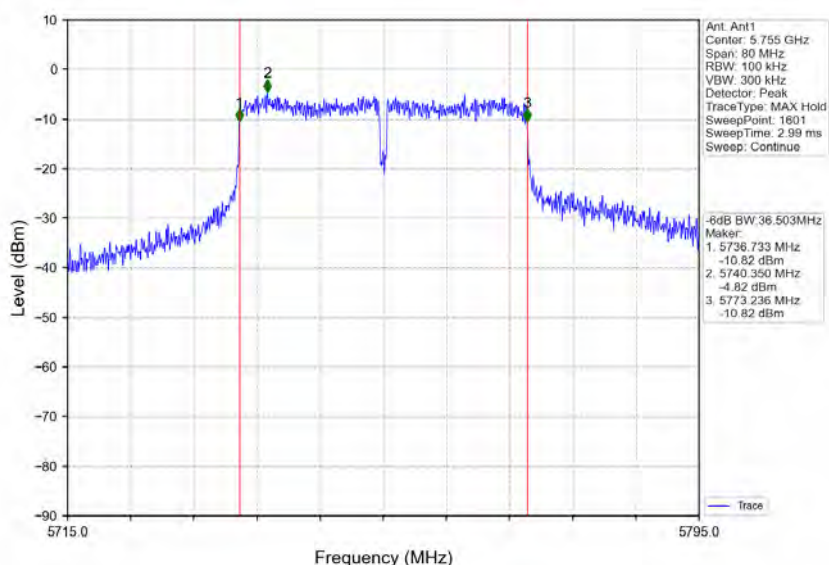
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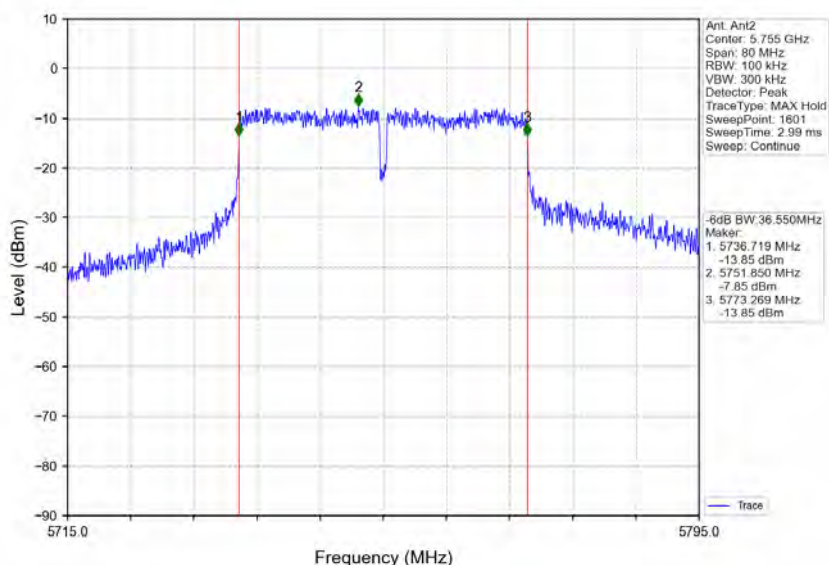
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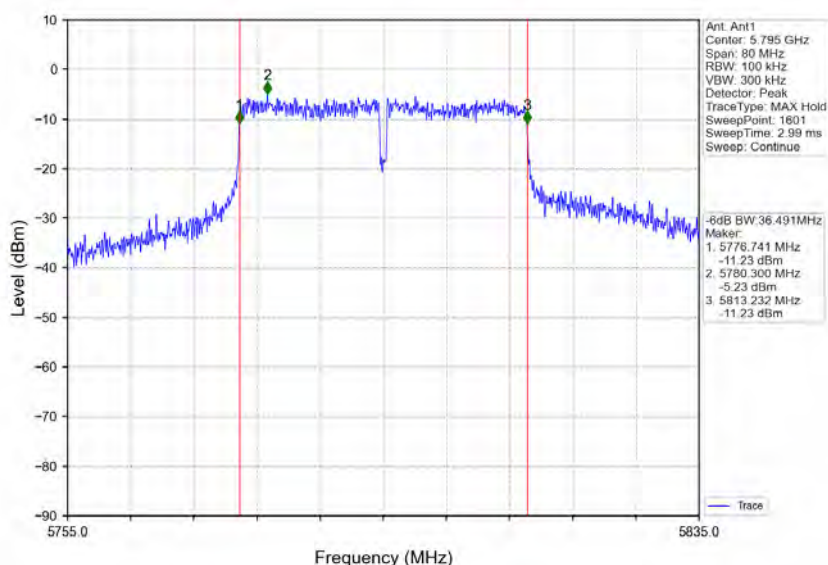
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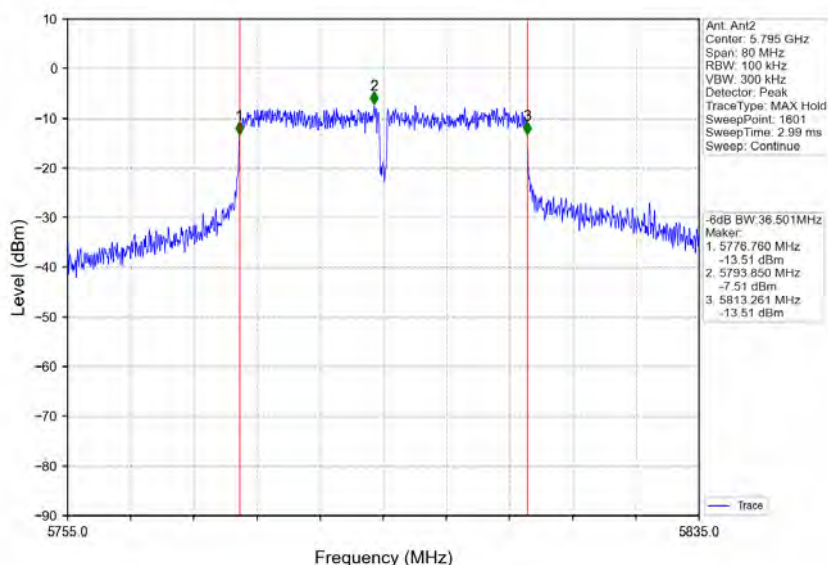
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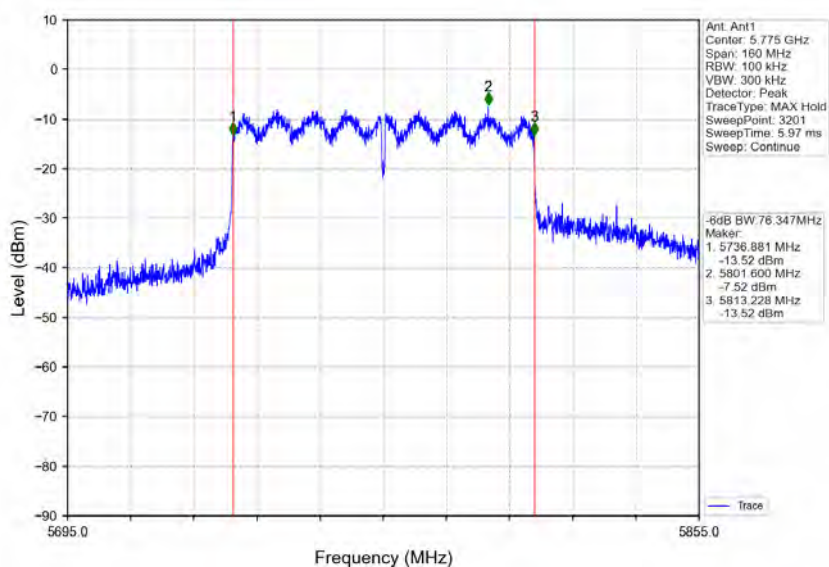
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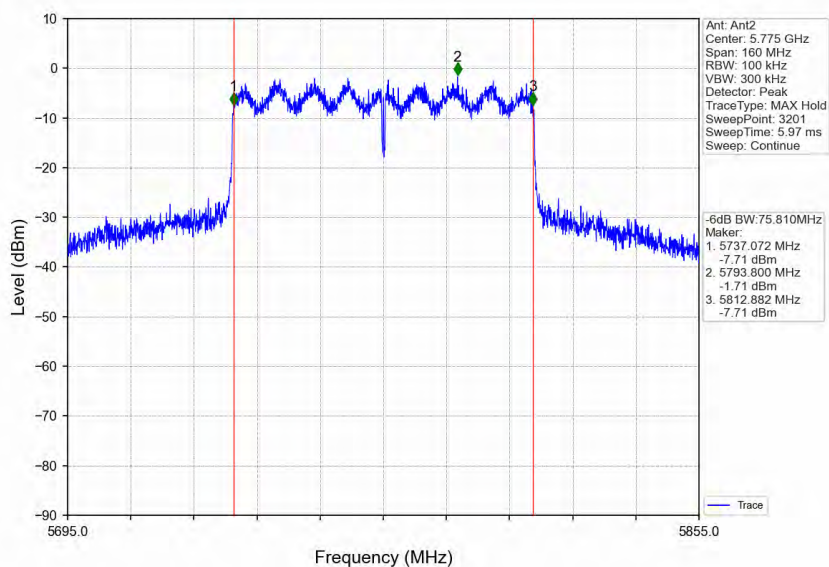
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5745	11.08	11.42	/	<=30	Pass
		5785	10.88	10.90	/	<=30	Pass
		5825	10.48	10.93	/	<=30	Pass
802.11n (HT20)	MIMO	5745	11.44	13.56	15.64	<=30	Pass
		5785	11.61	13.10	15.43	<=30	Pass
		5825	11.40	13.46	15.56	<=30	Pass
802.11n (HT40)	MIMO	5755	11.09	16.38	17.51	<=30	Pass
		5795	11.24	15.76	17.07	<=30	Pass
802.11ac (VHT20)	MIMO	5745	11.48	15.05	16.63	<=30	Pass
		5785	10.45	14.47	15.92	<=30	Pass
		5825	10.01	14.60	15.90	<=30	Pass
802.11ac (VHT40)	MIMO	5755	10.50	8.06	12.46	<=30	Pass
		5795	10.06	7.89	12.12	<=30	Pass
802.11ac (VHT80)	MIMO	5775	10.06	15.62	16.69	<=30	Pass
Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 2.66dBi; Note2: Directional Gain: 5.32dBi							



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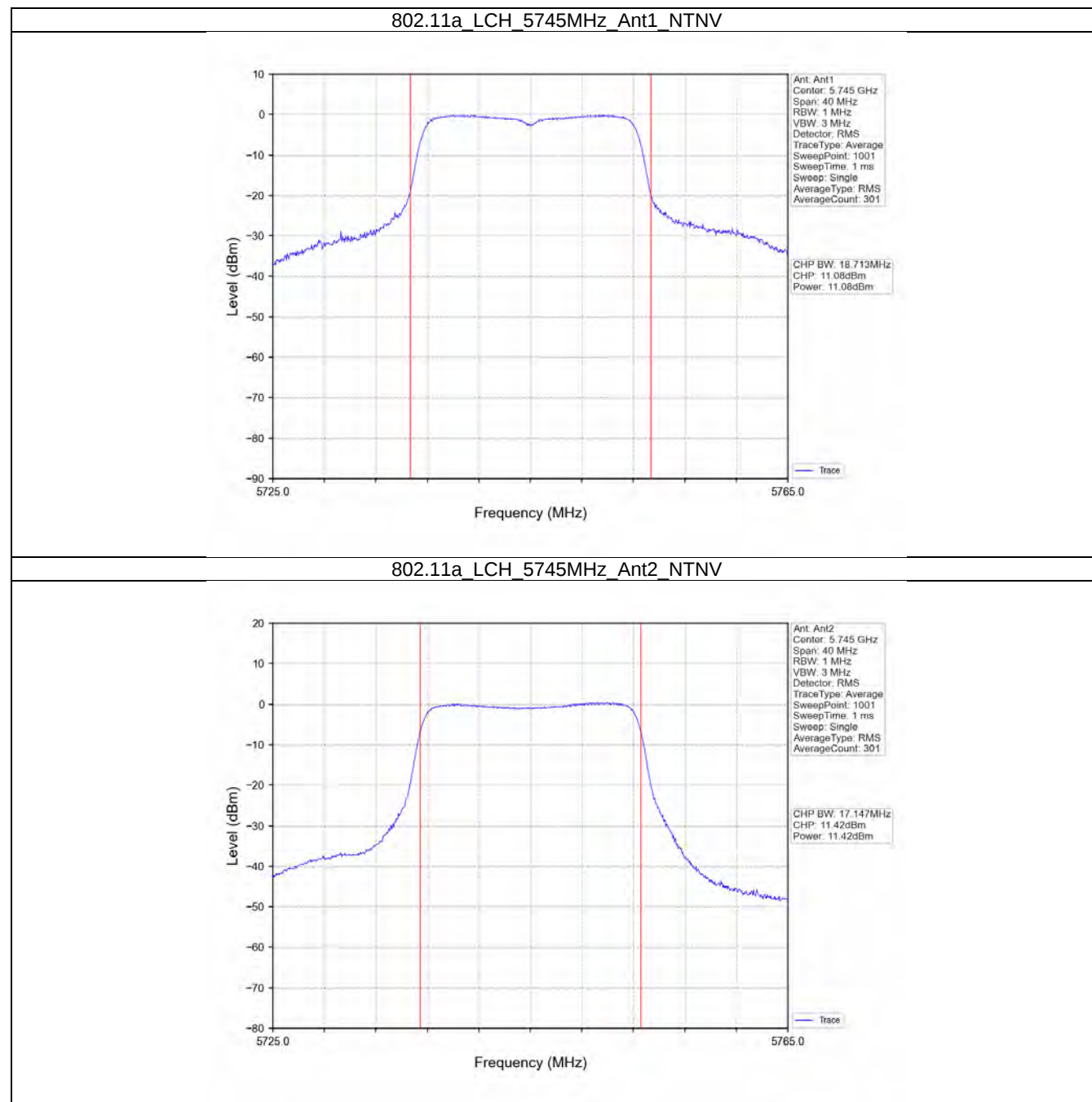
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3.1.2 Test Graph



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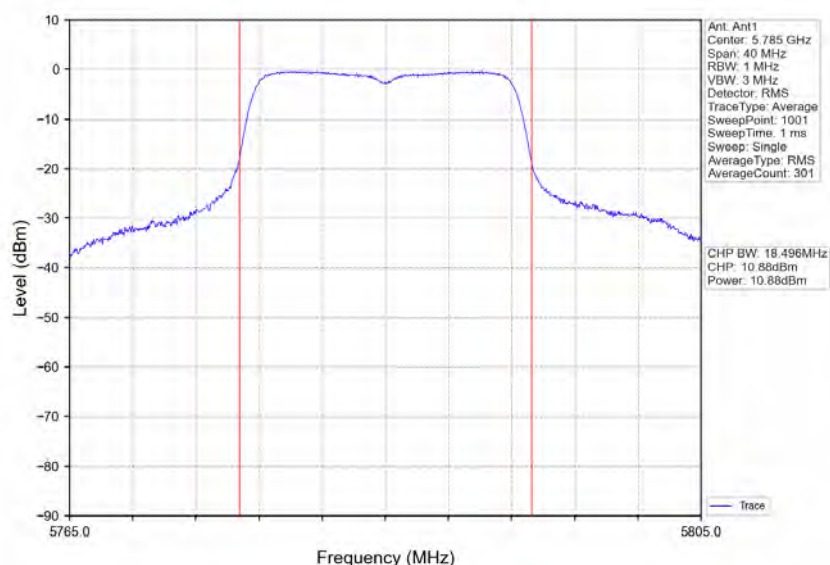
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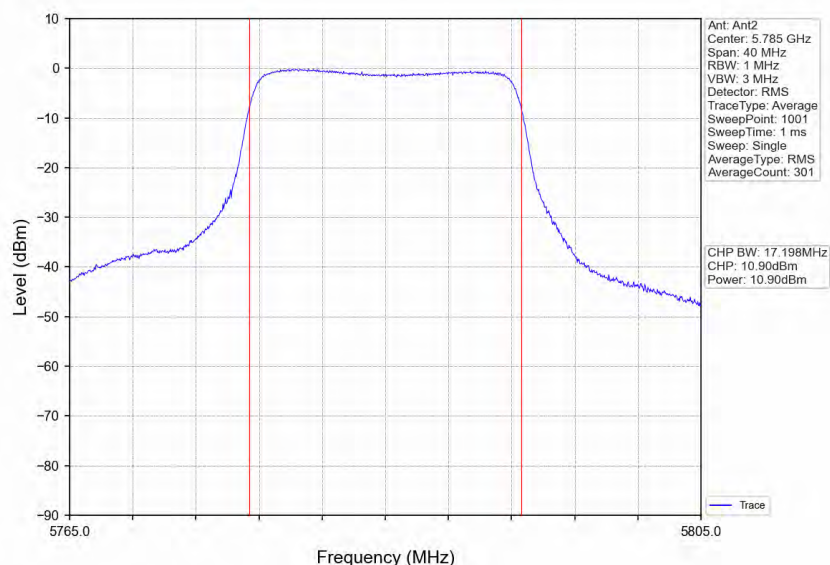
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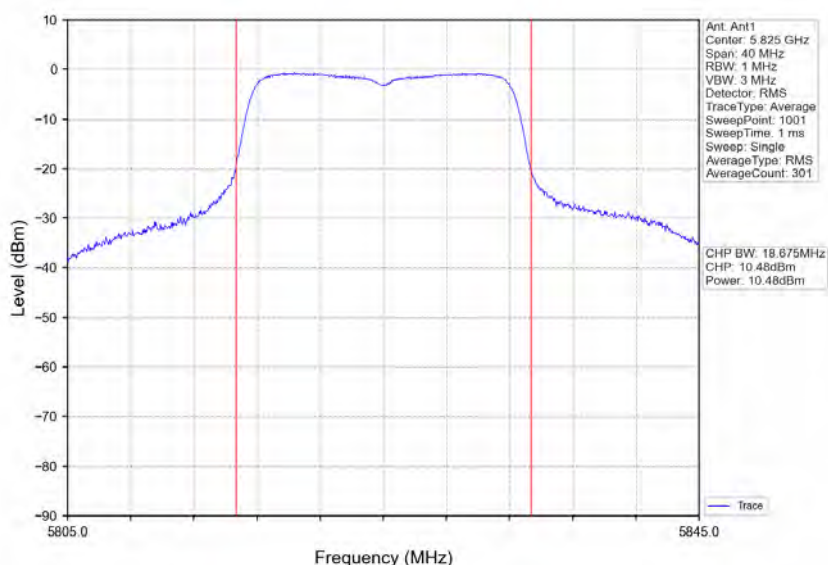
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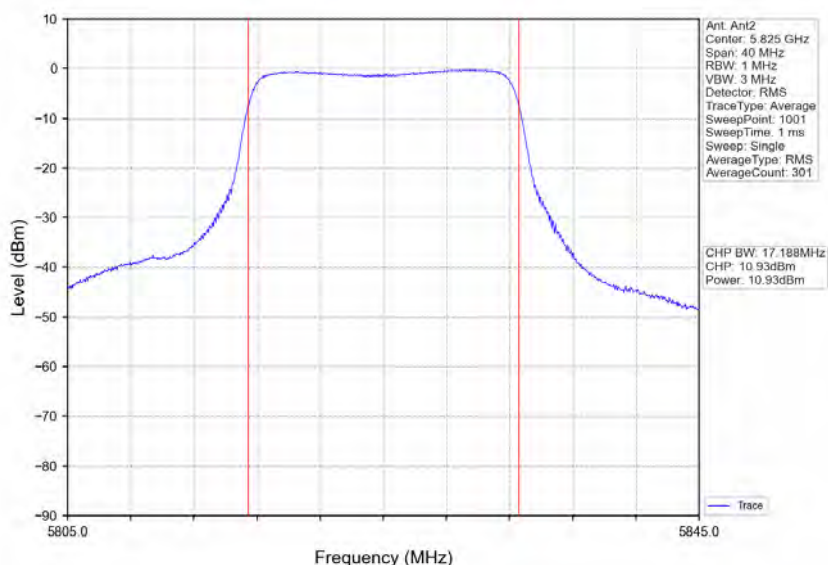
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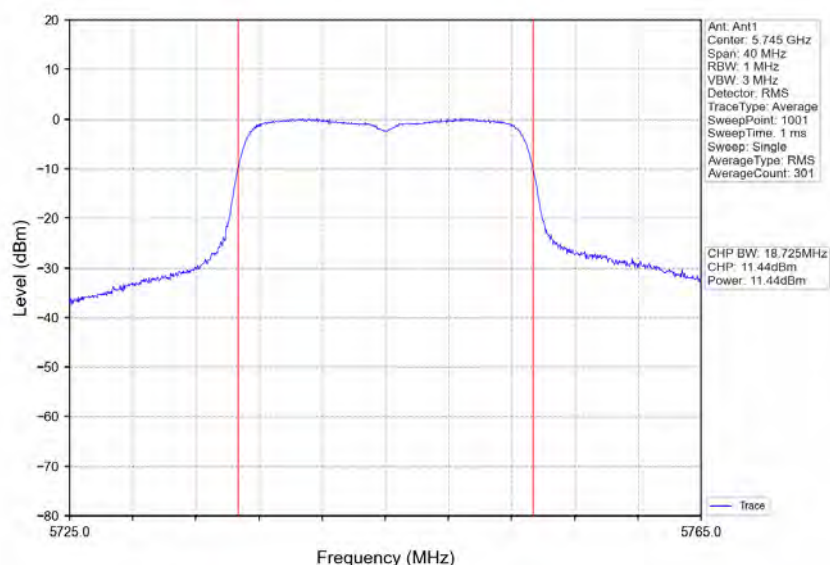
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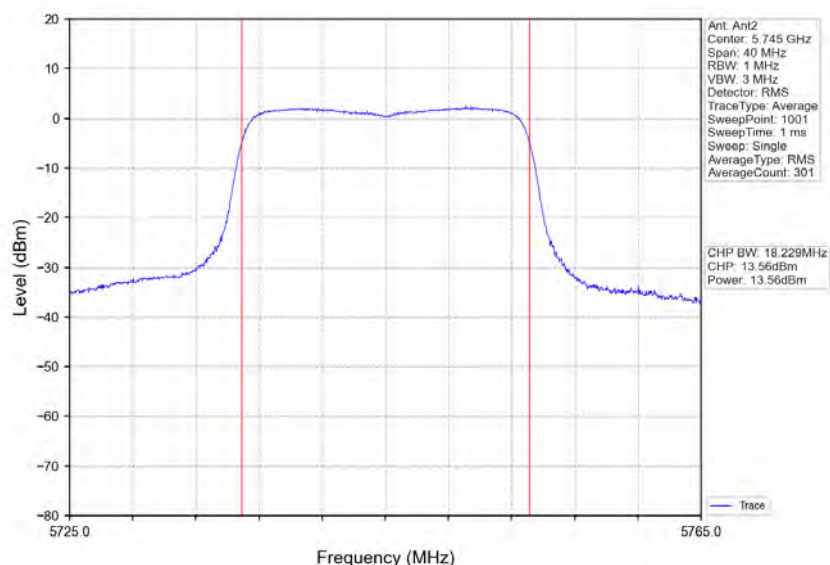
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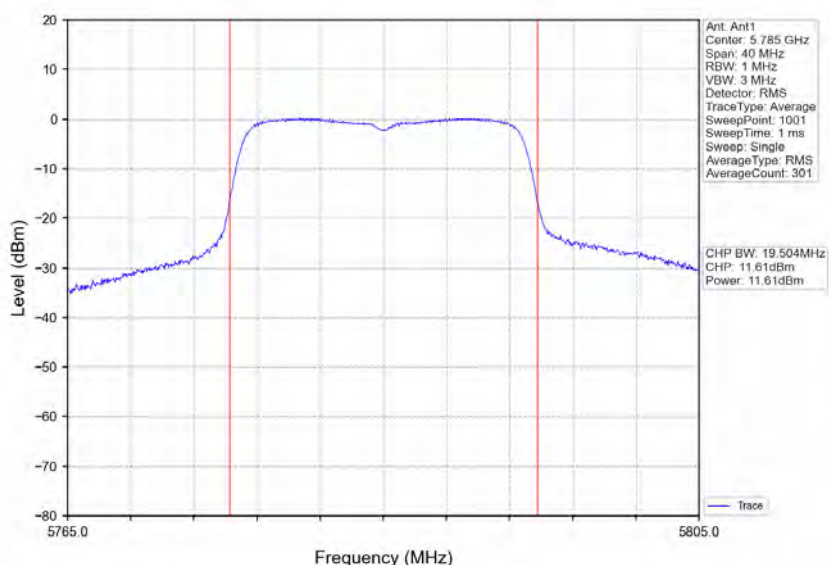
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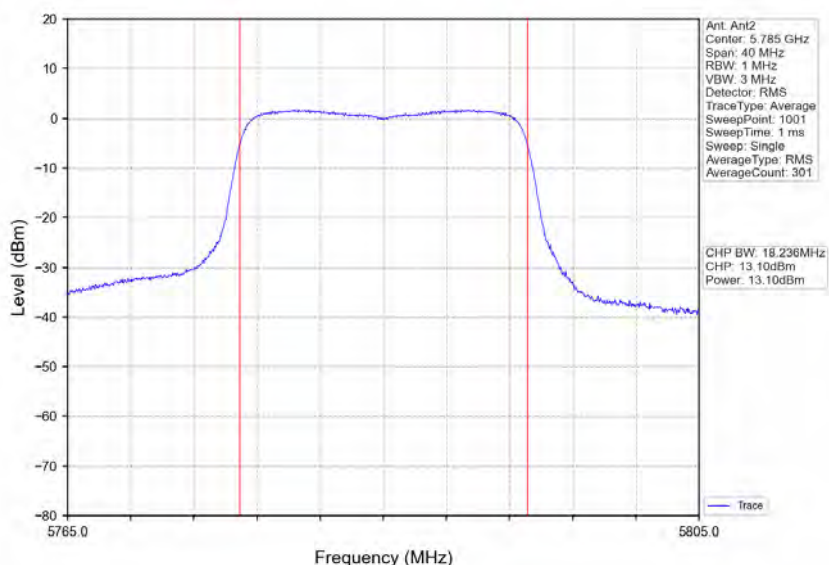
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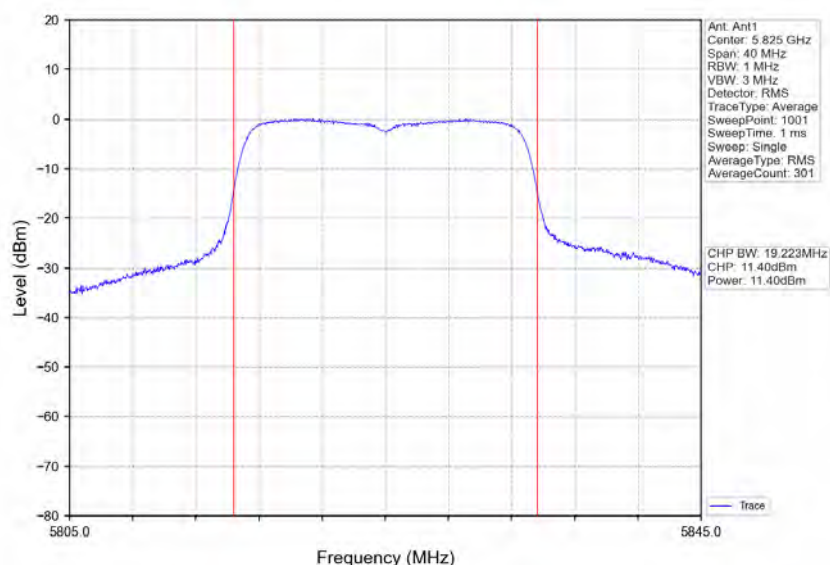
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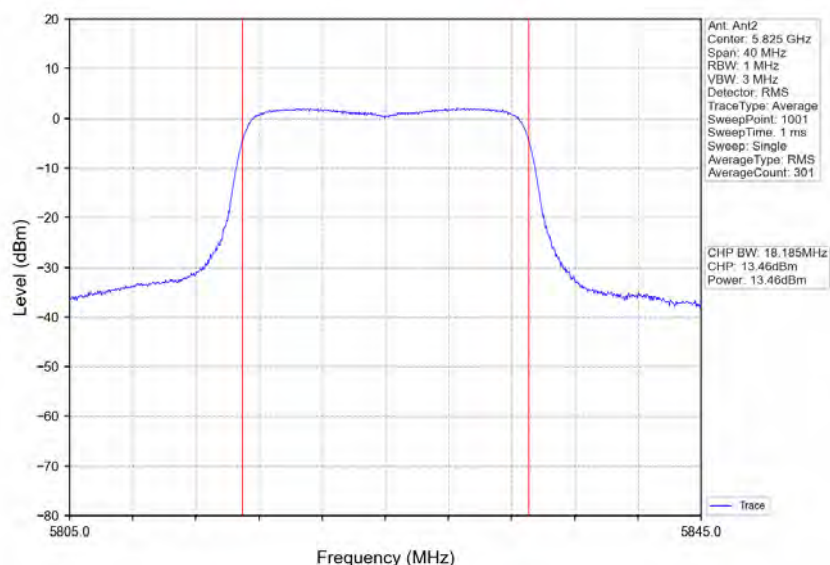
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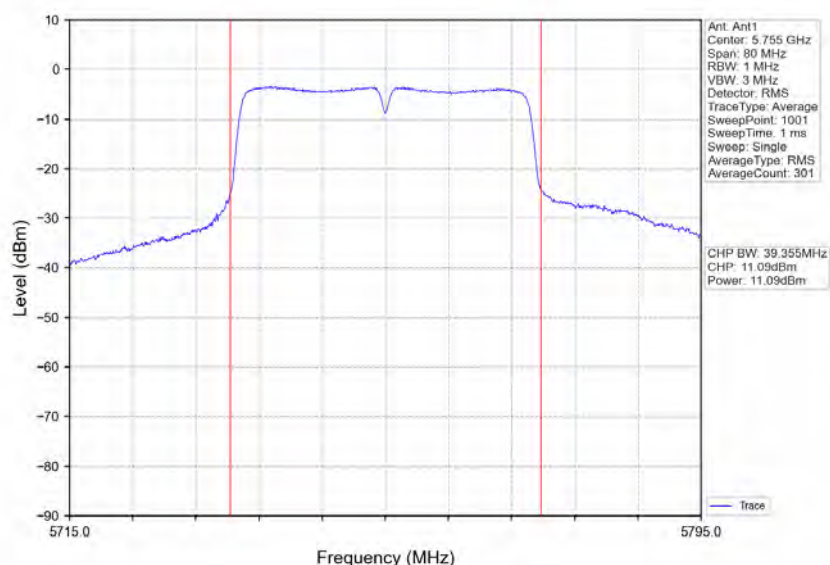
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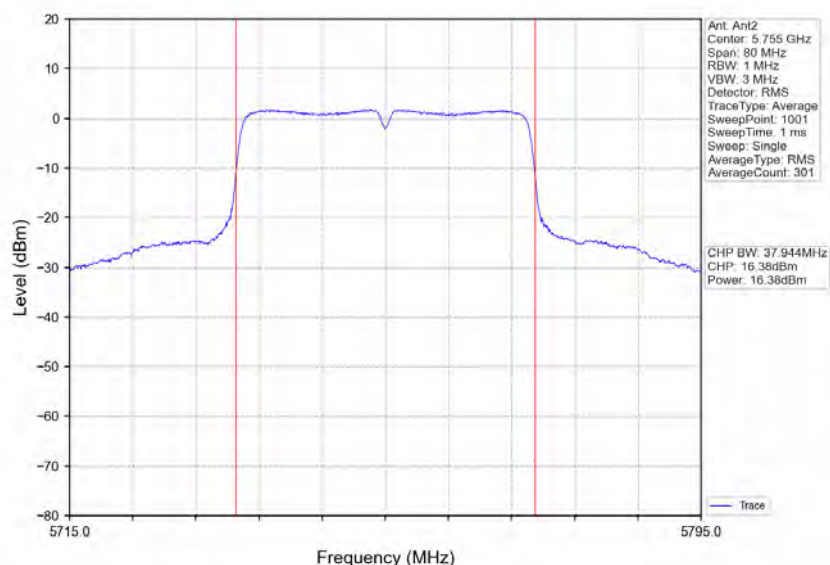
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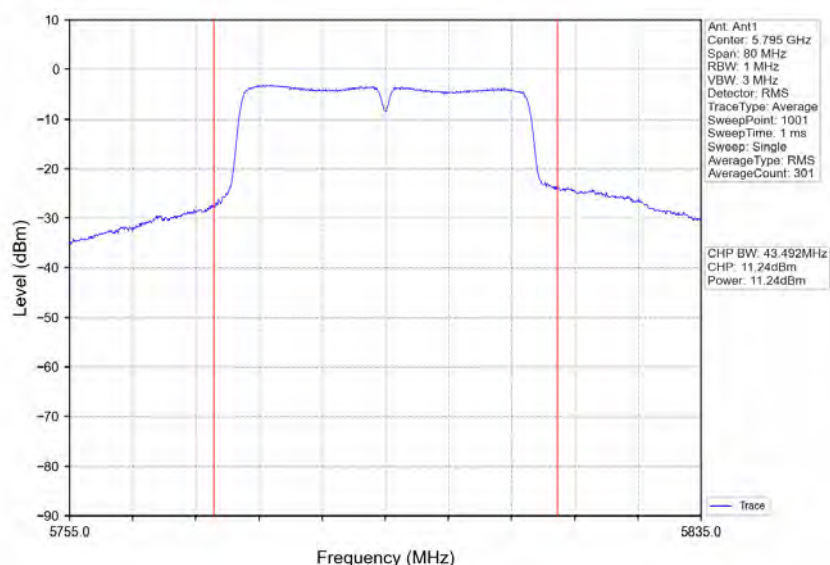
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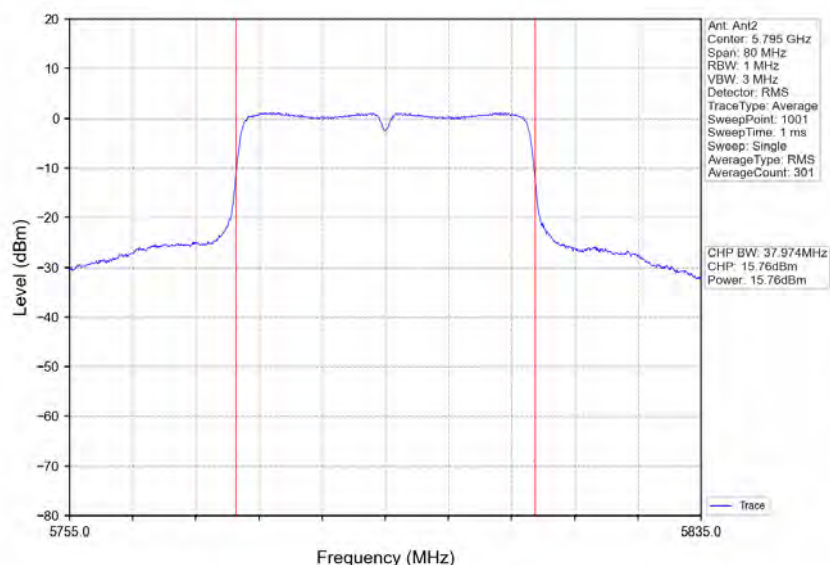
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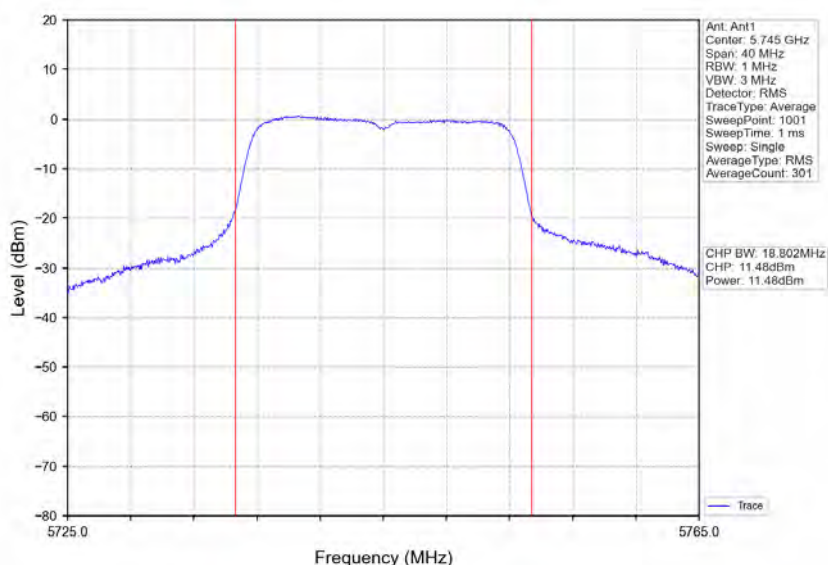
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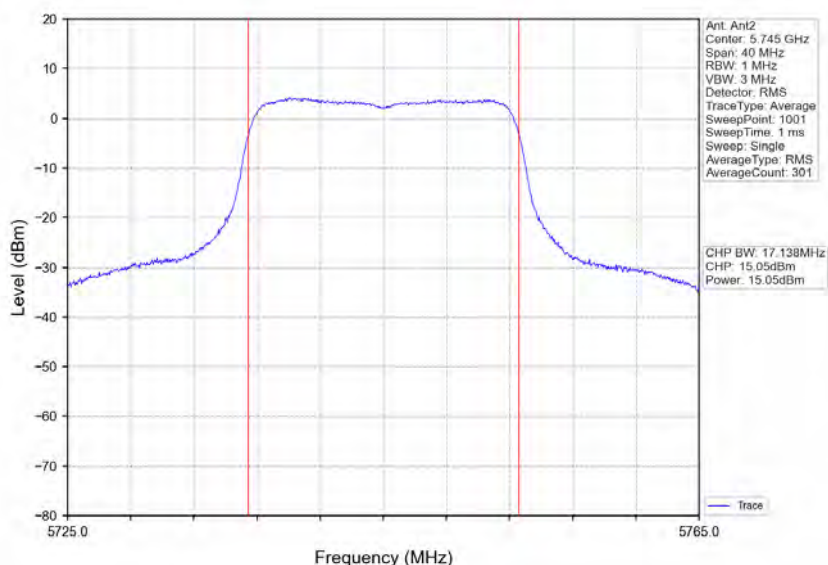
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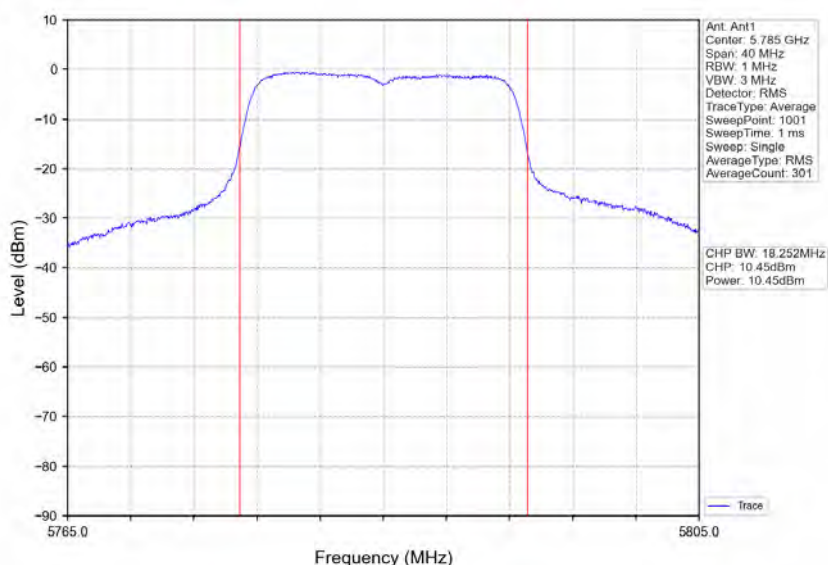
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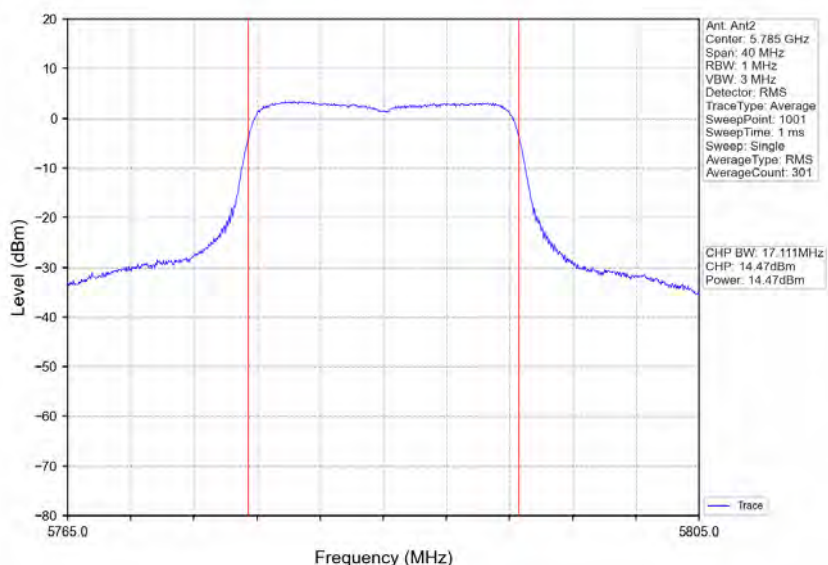
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802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



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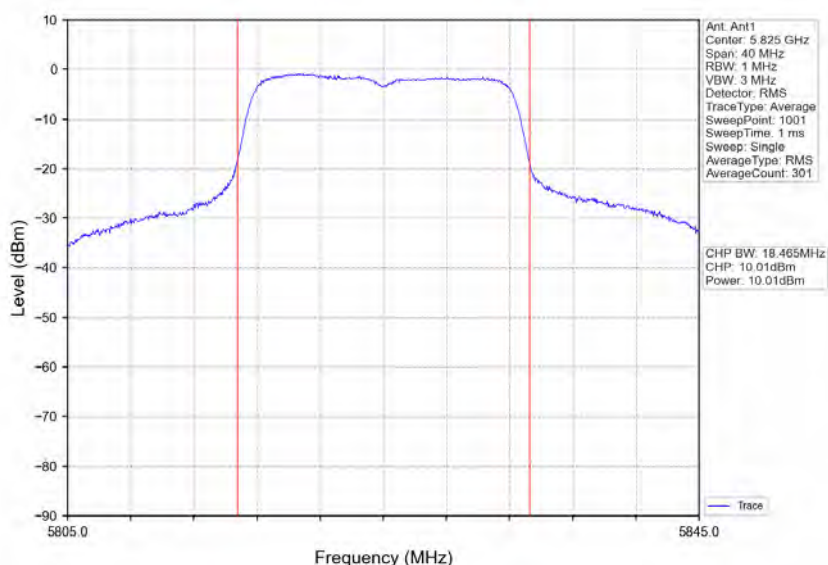
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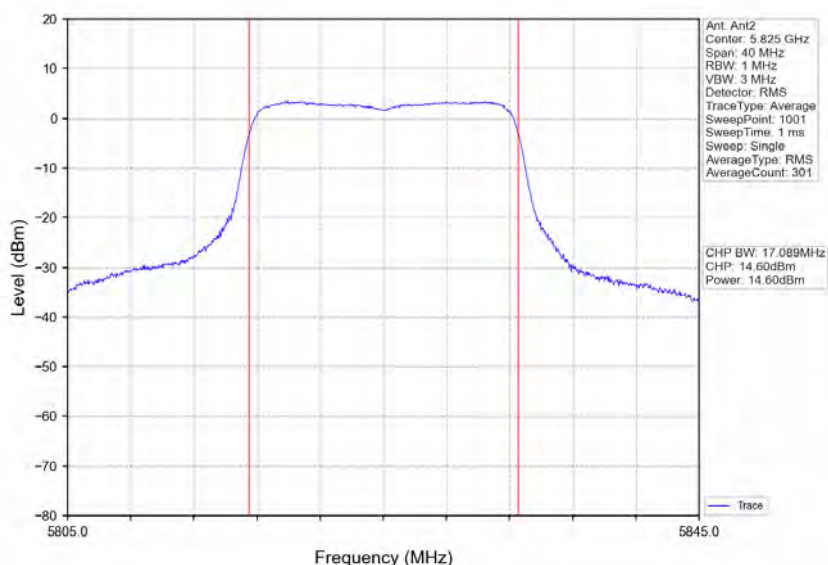
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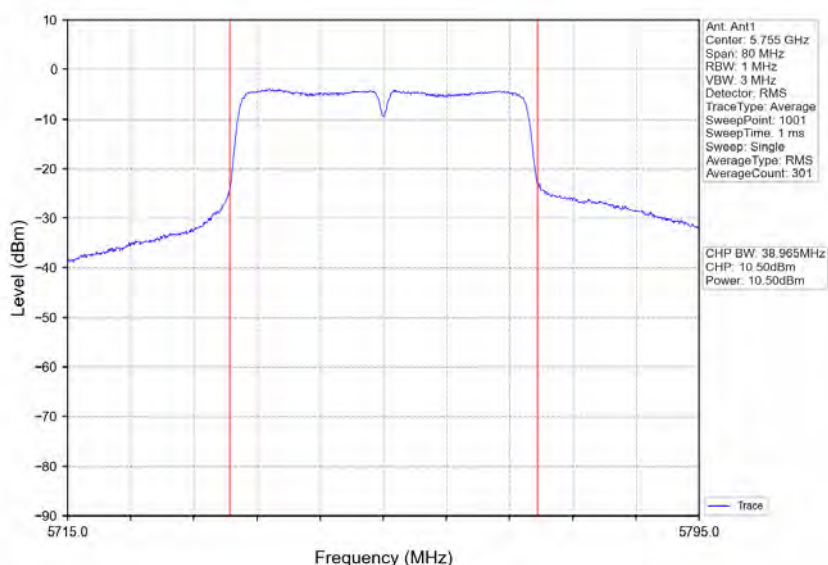
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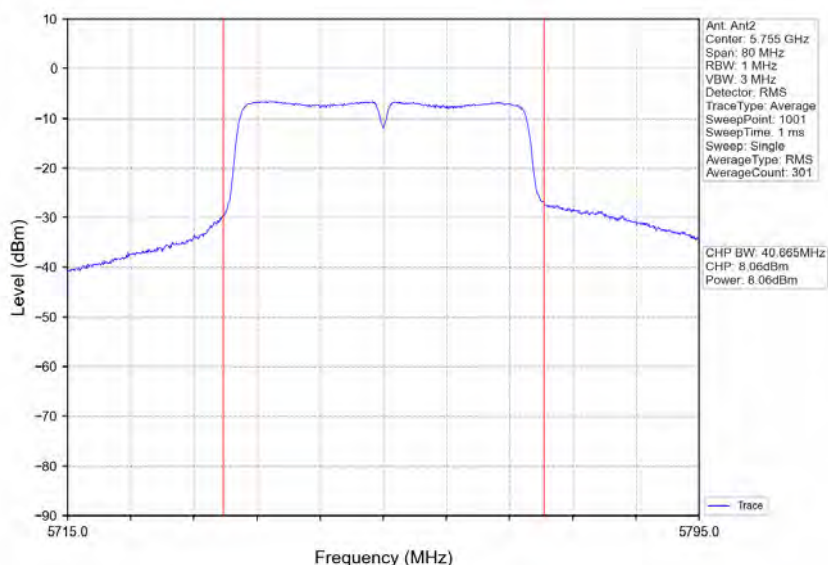
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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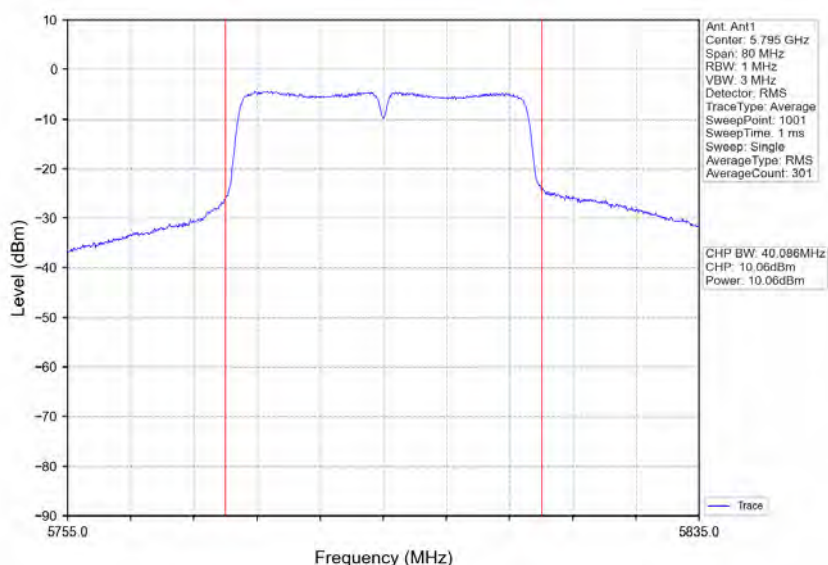
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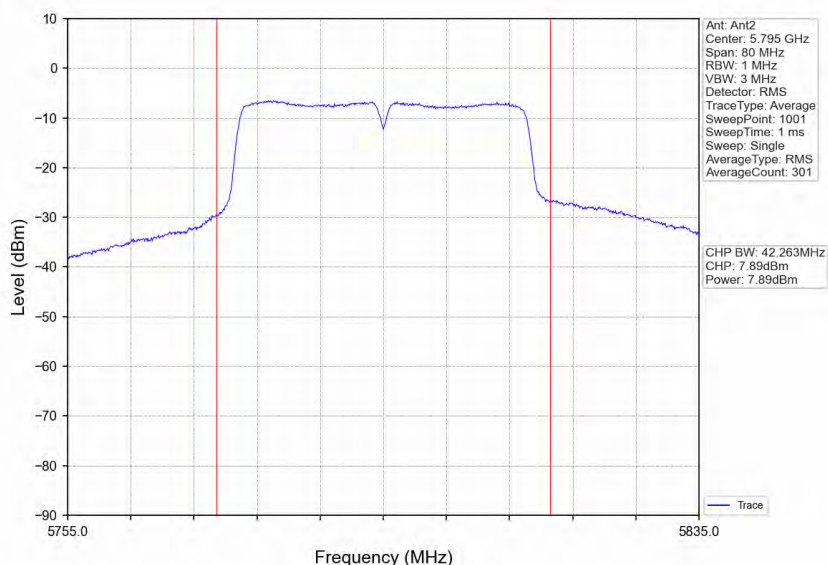
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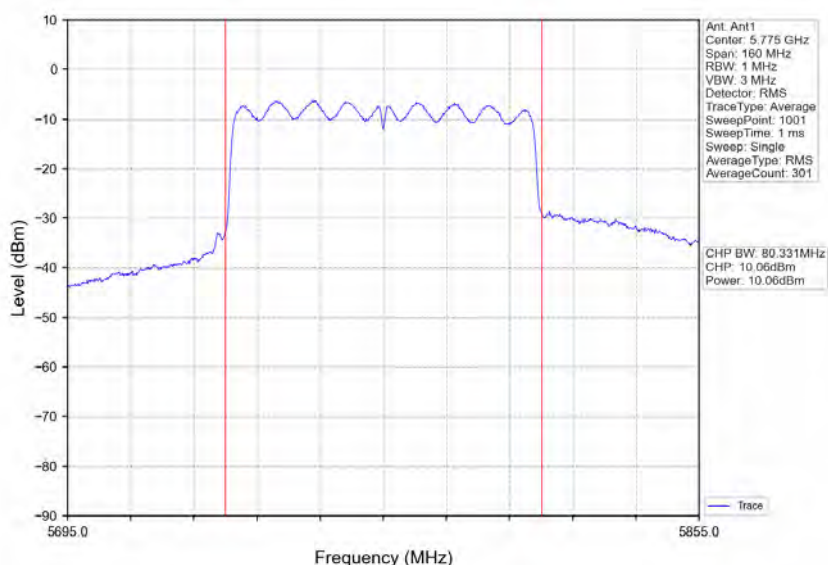
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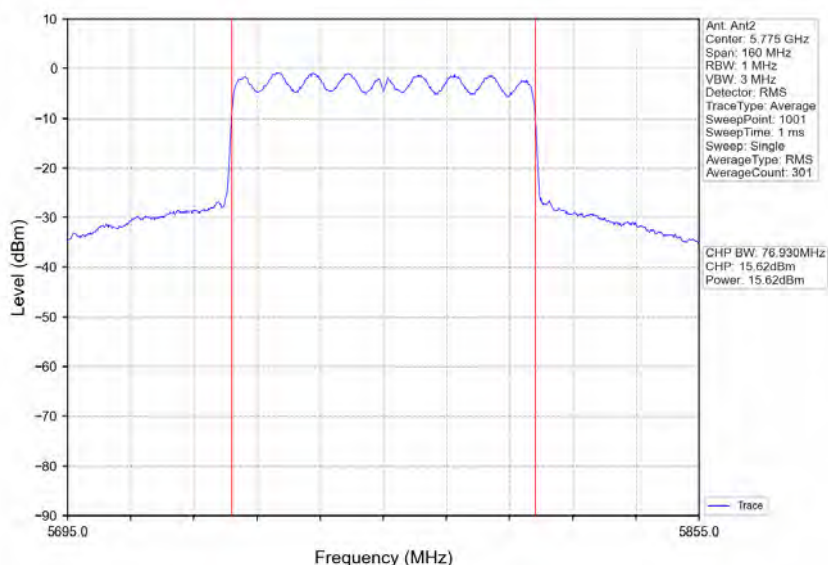
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4. Maximum Power Spectral Density

4.1 PSD-Band3

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11a	SISO	5745	-2.91	-2.45	/	<=30	Pass
		5785	-3.17	-3.06	/	<=30	Pass
		5825	-3.50	-2.74	/	<=30	Pass
802.11n (HT20)	MIMO	5745	-2.62	-0.60	1.39	<=30	Pass
		5785	-2.64	-1.05	1.18	<=30	Pass
		5825	-2.66	-0.62	1.35	<=30	Pass
802.11n (HT40)	MIMO	5755	-6.31	-1.20	-0.12	<=30	Pass
		5795	-6.07	-1.80	-0.53	<=30	Pass
802.11ac (VHT20)	MIMO	5745	-2.28	1.14	2.63	<=30	Pass
		5785	-3.25	0.80	2.15	<=30	Pass
		5825	-3.66	0.71	1.85	<=30	Pass
802.11ac (VHT40)	MIMO	5755	-6.87	-9.60	-5.02	<=30	Pass
		5795	-7.47	-9.47	-5.43	<=30	Pass
802.11ac (VHT80)	MIMO	5775	-8.84	-3.35	-2.47	<=30	Pass
Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 2.66dBi; Note2: Directional Gain: 5.32dBi							



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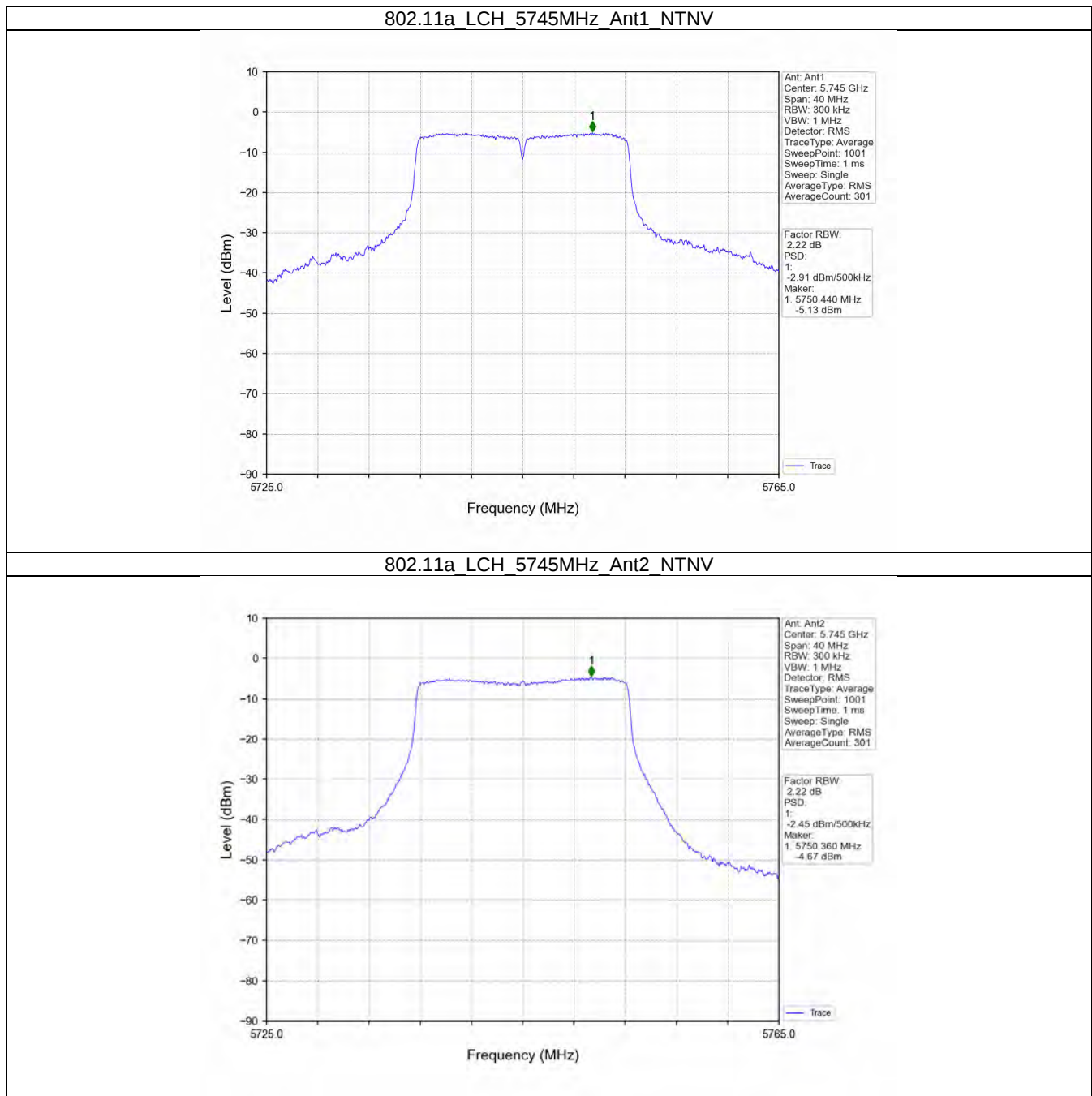
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4.1.2 Test Graph



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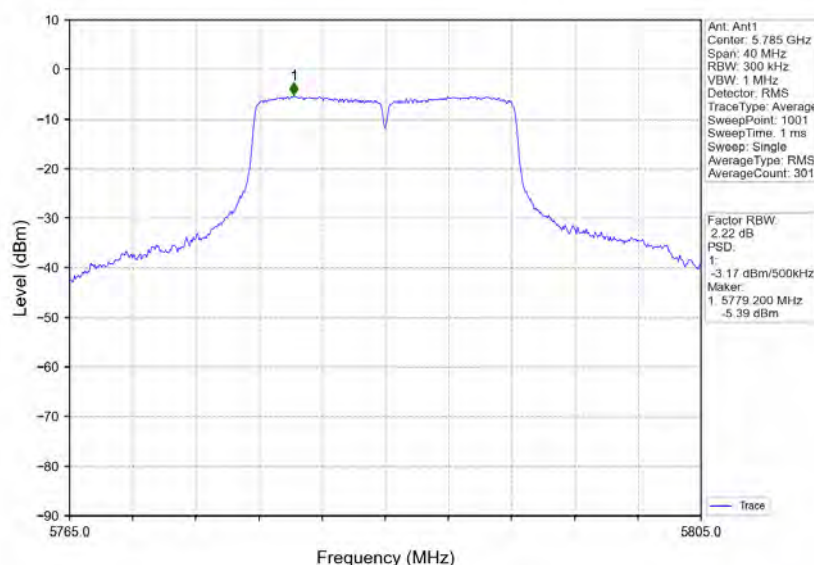
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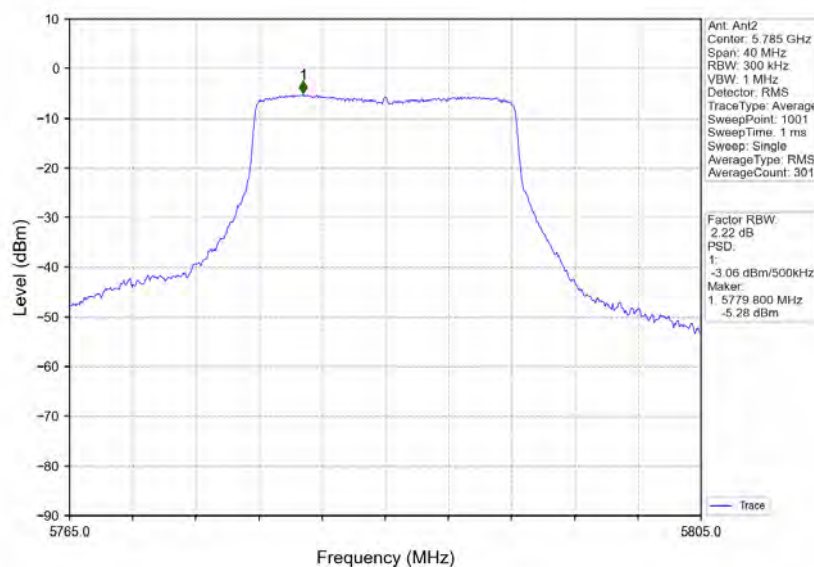
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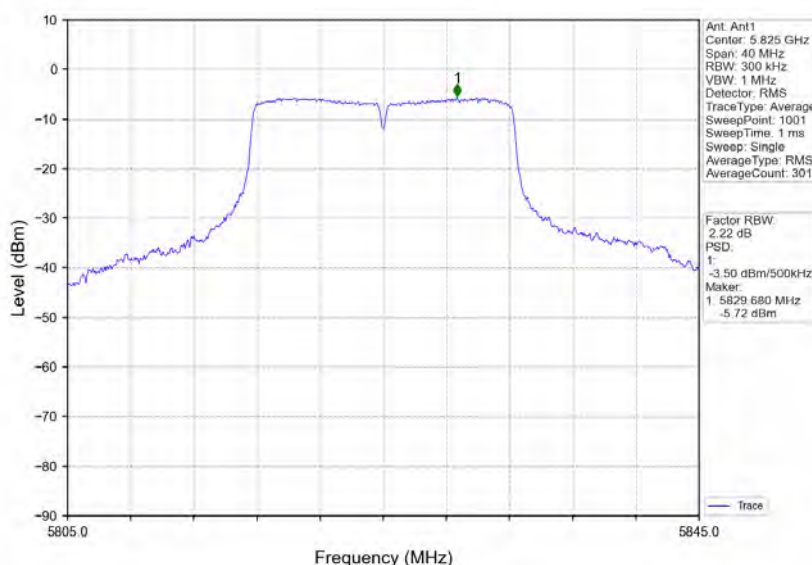
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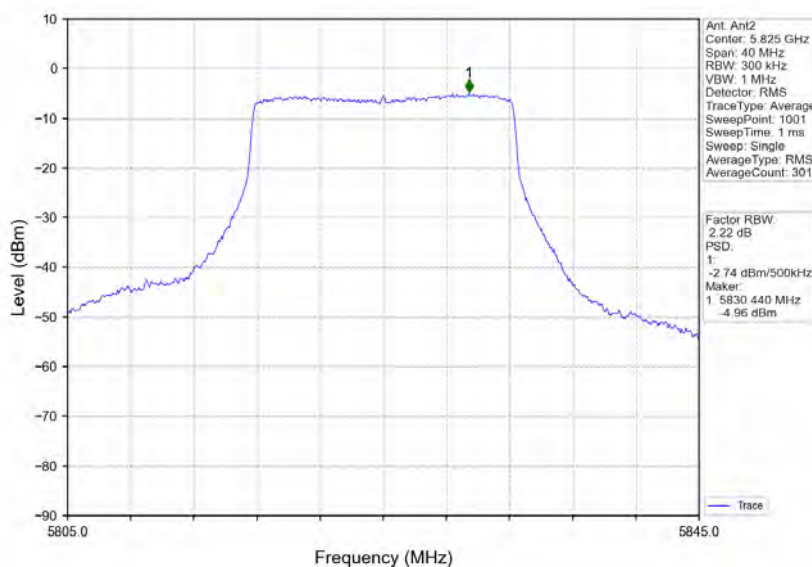
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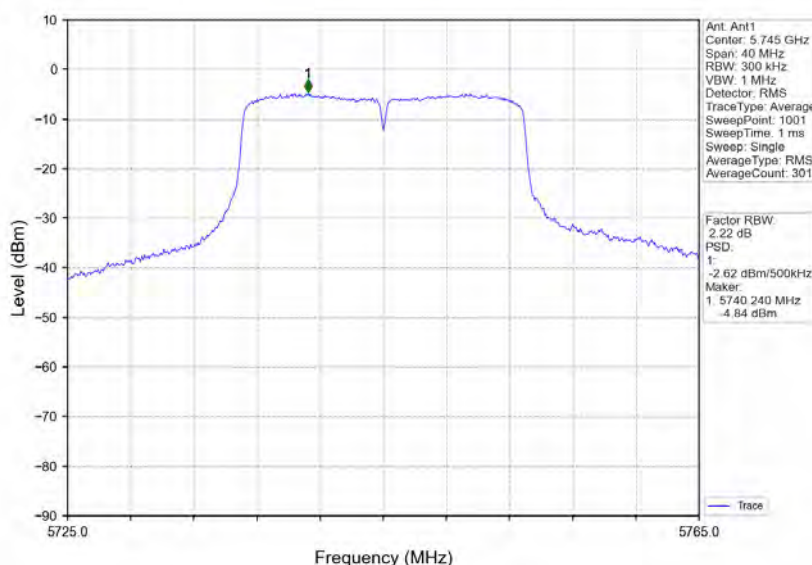
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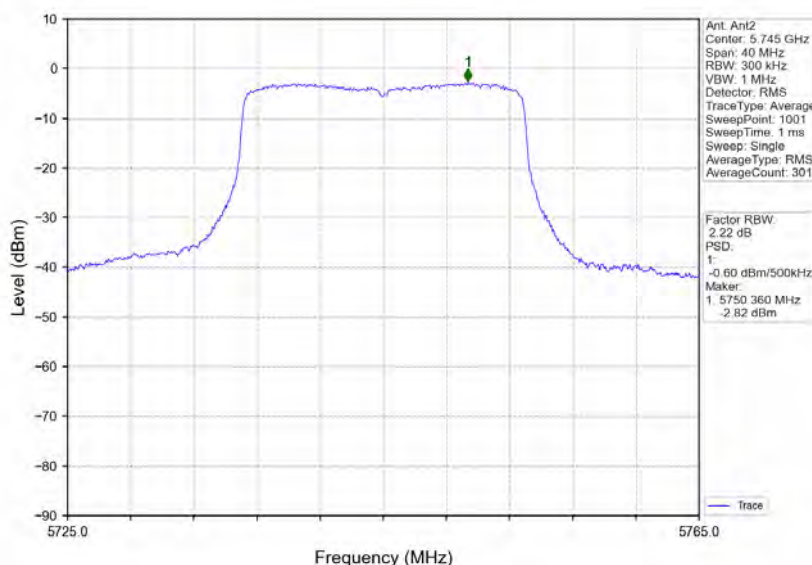
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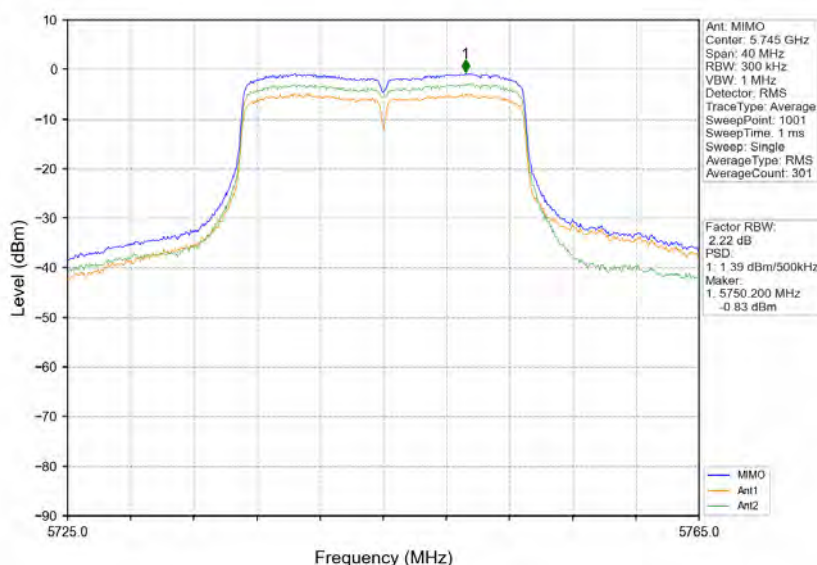
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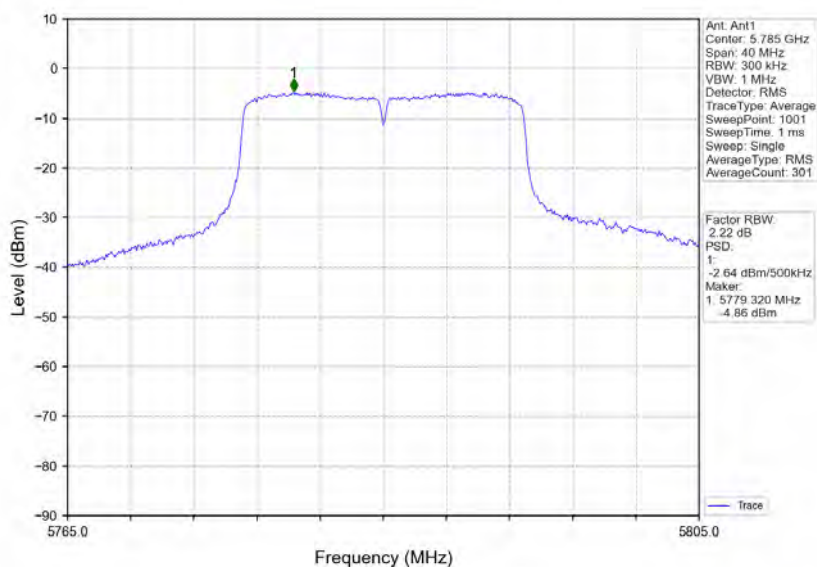
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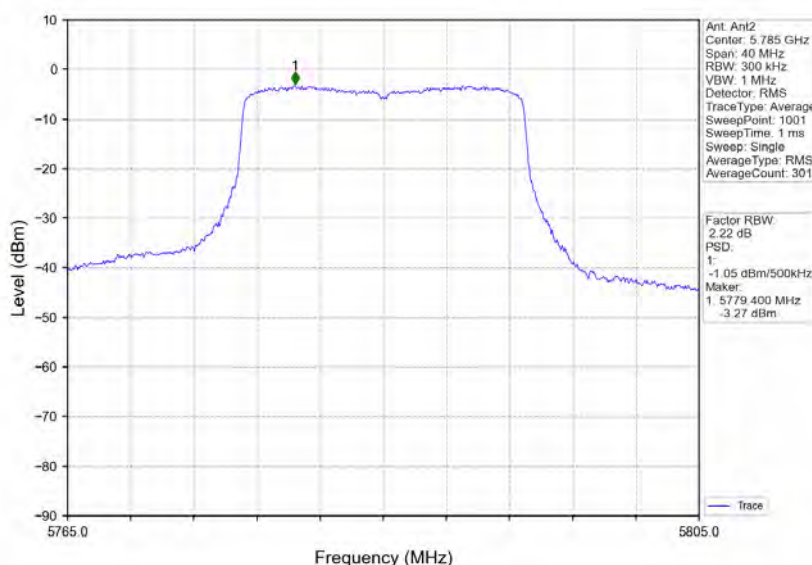
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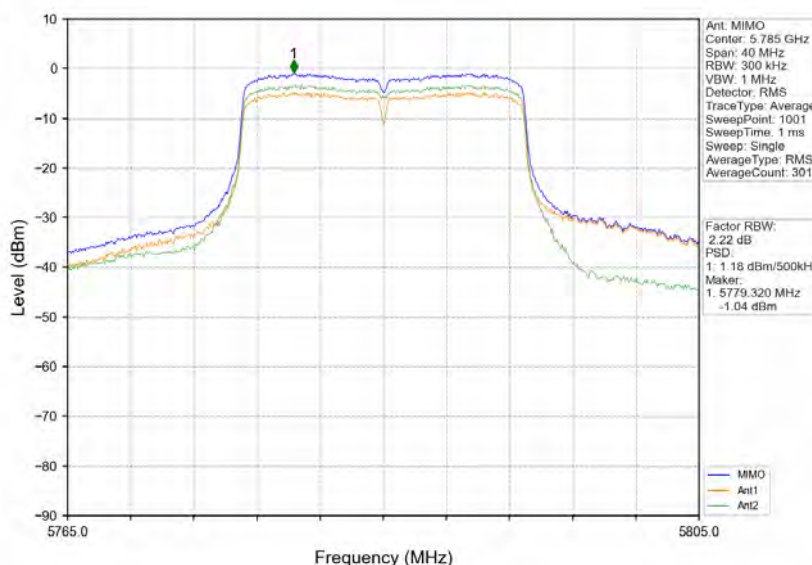
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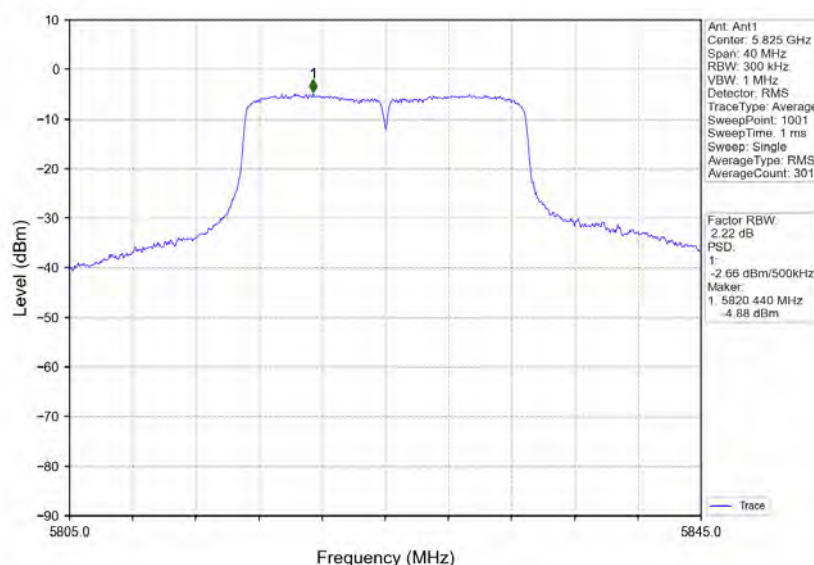
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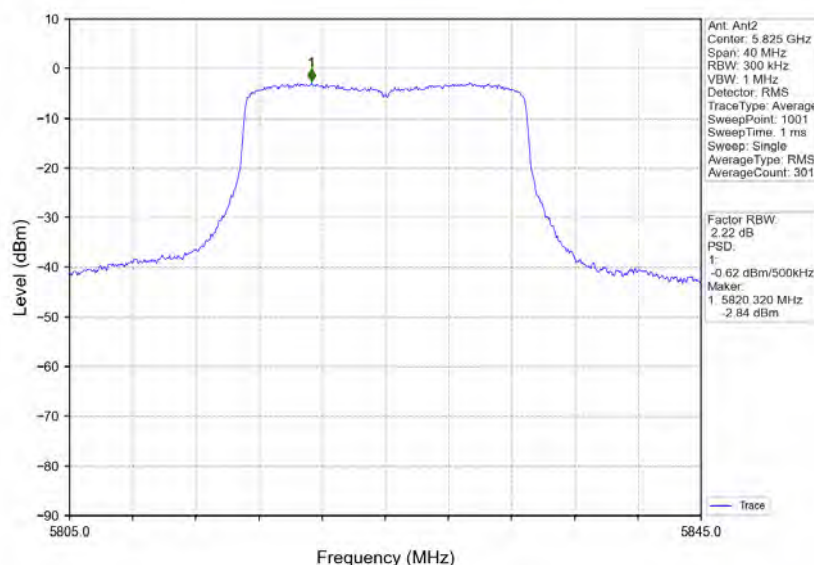
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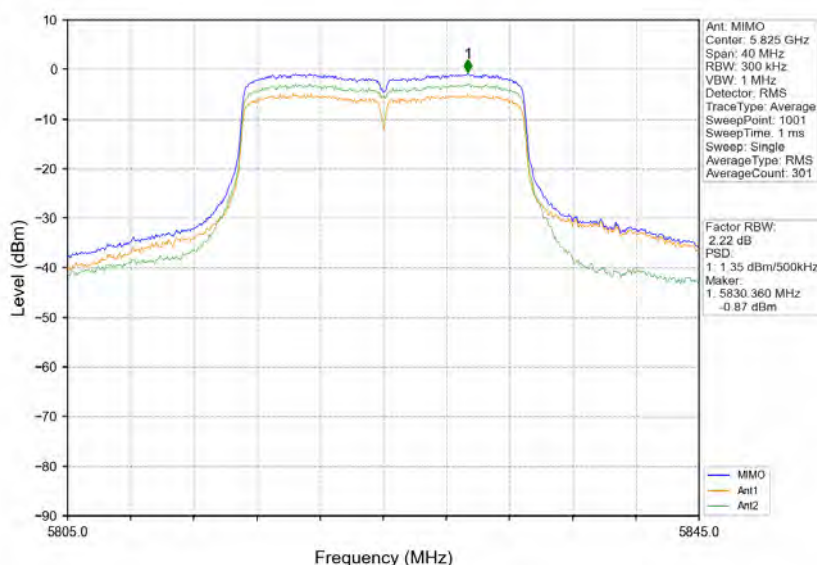
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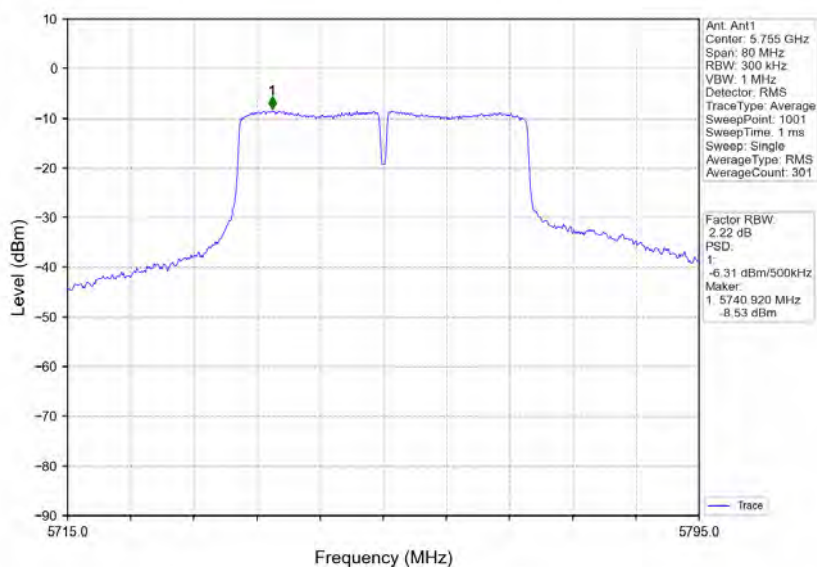
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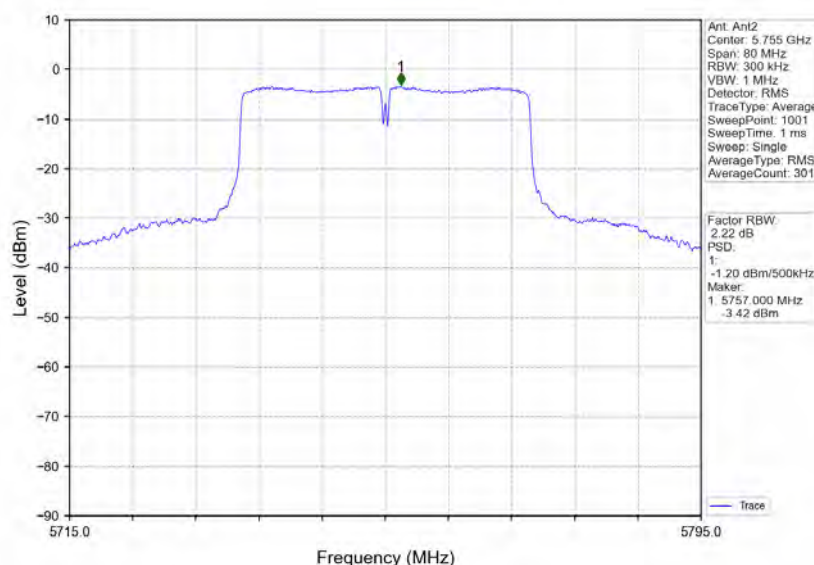
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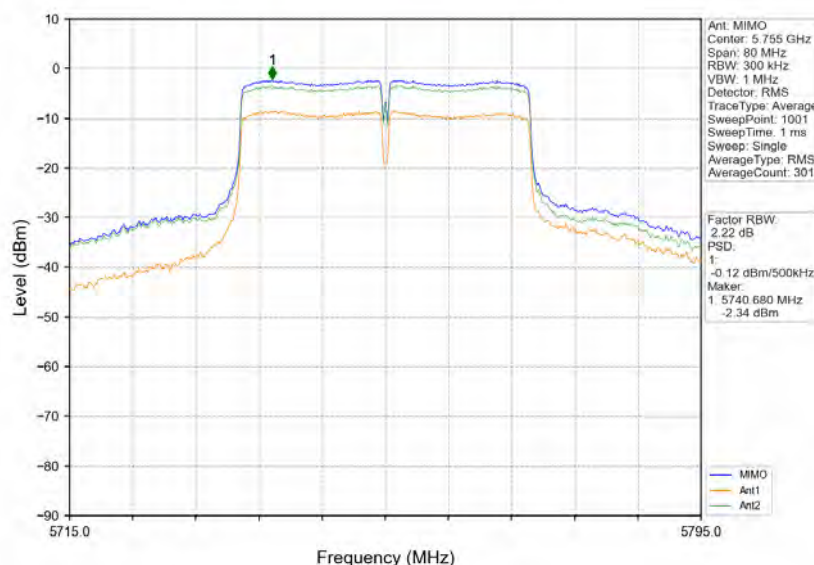
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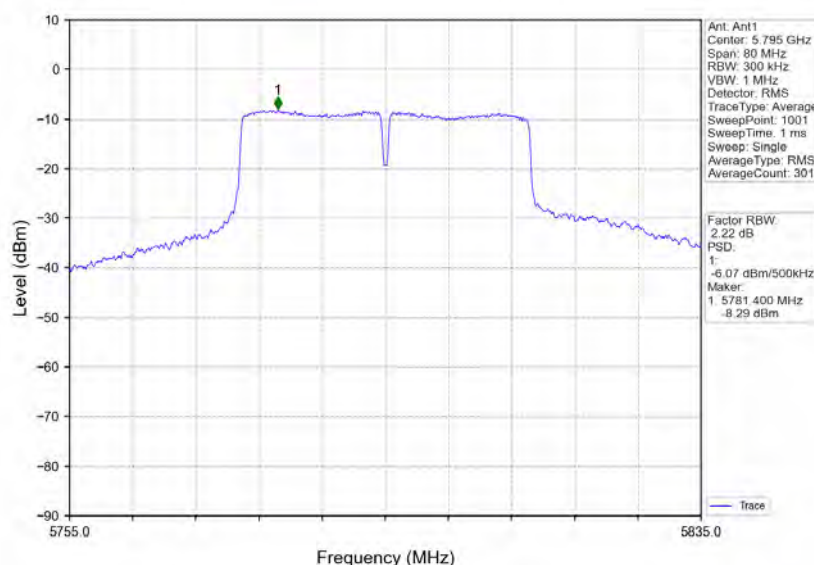
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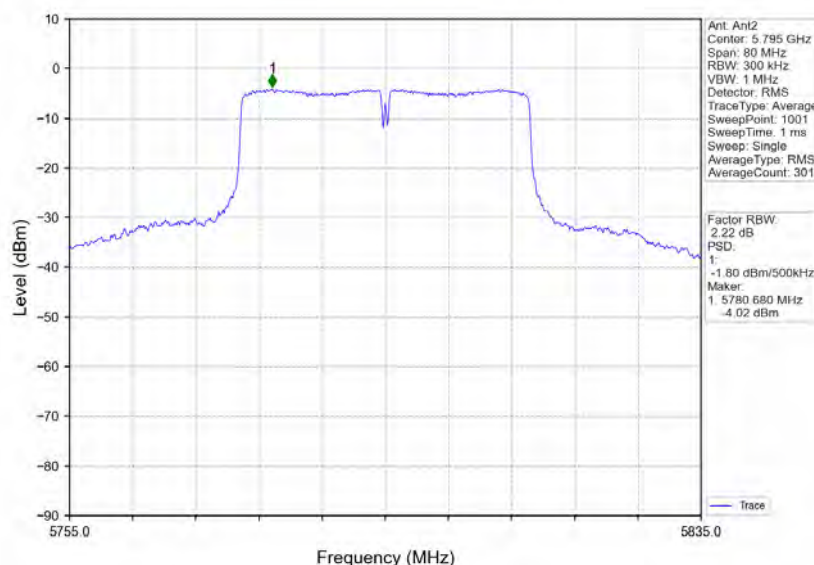
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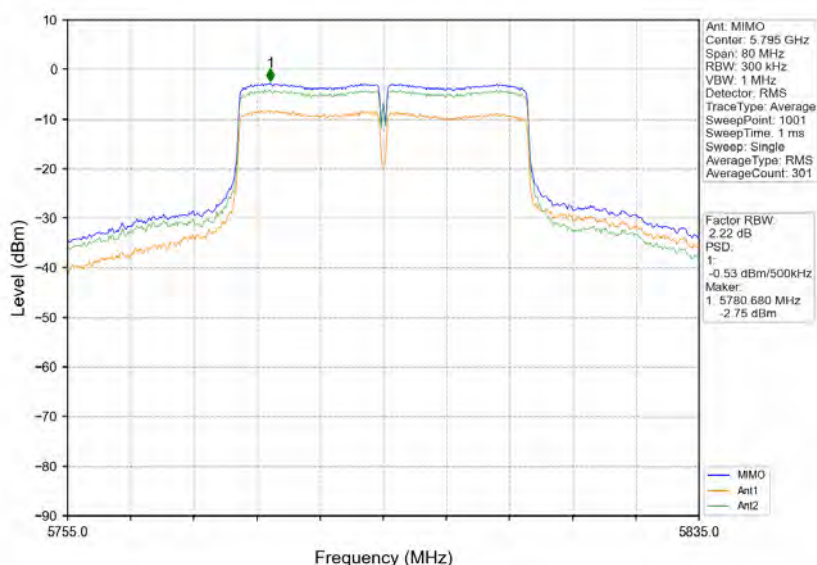
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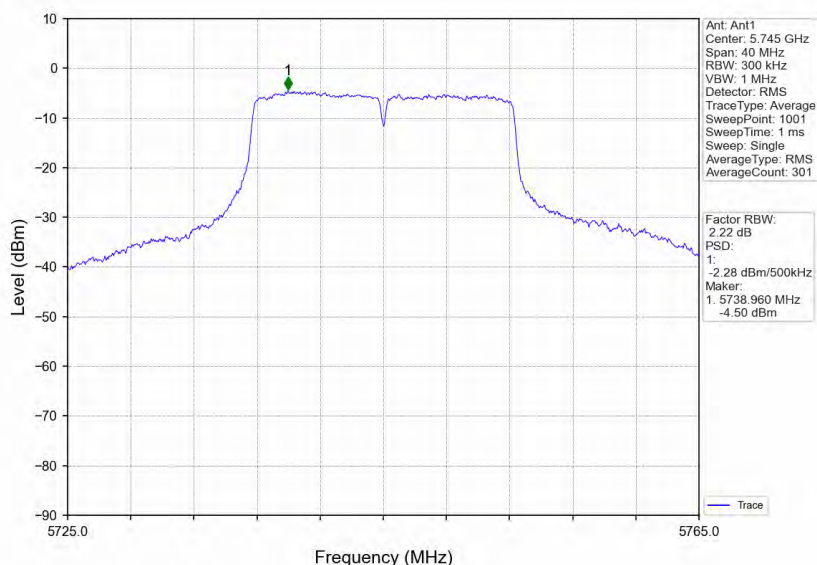
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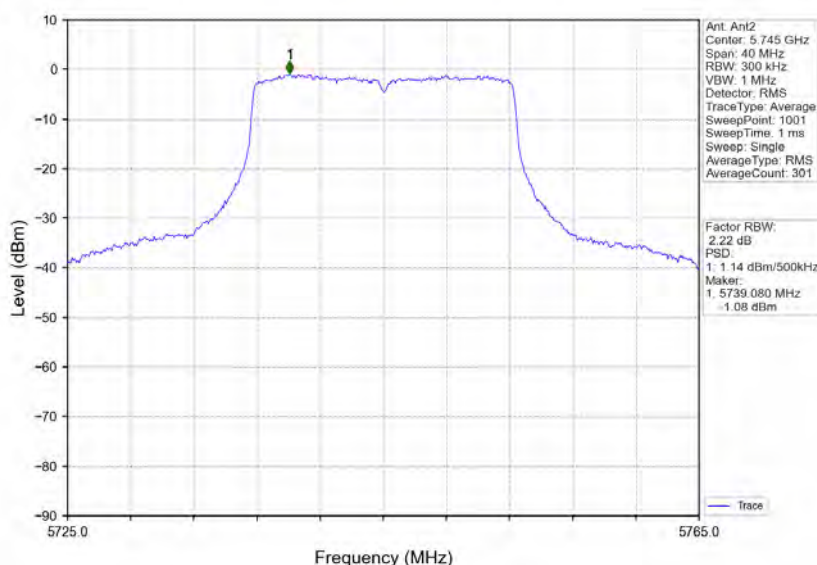
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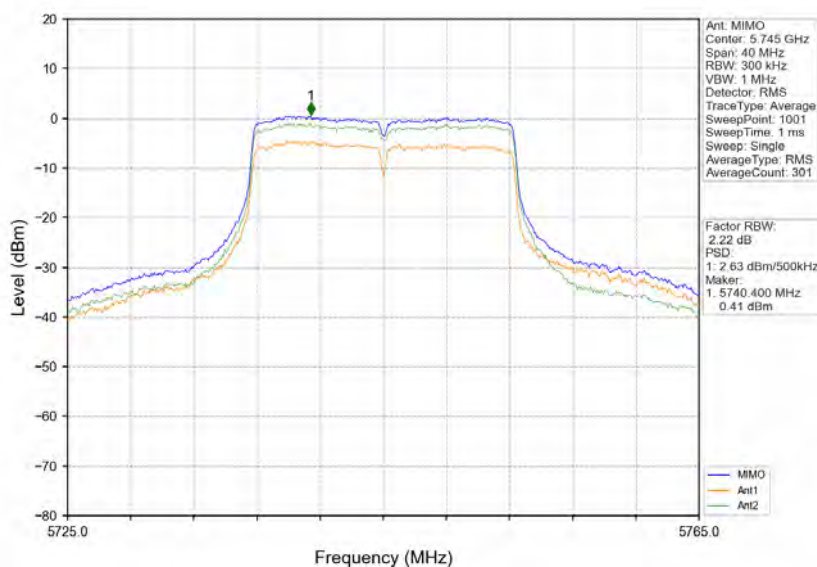
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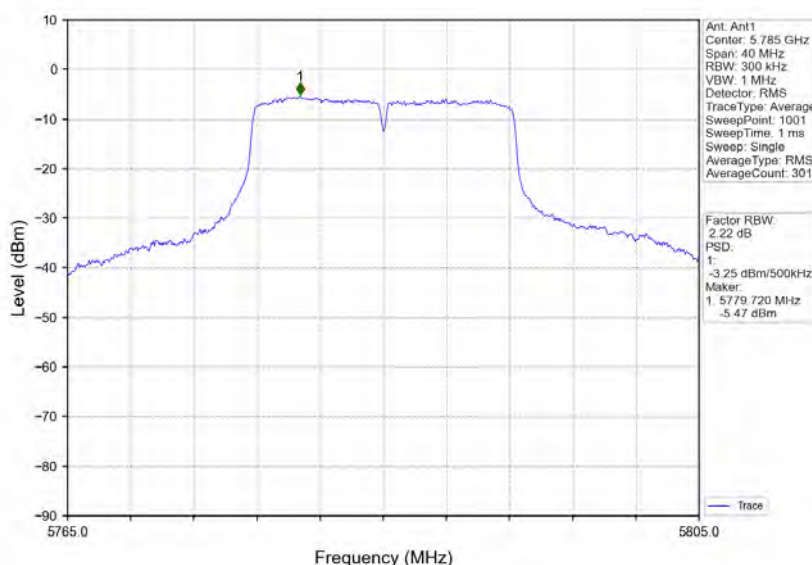
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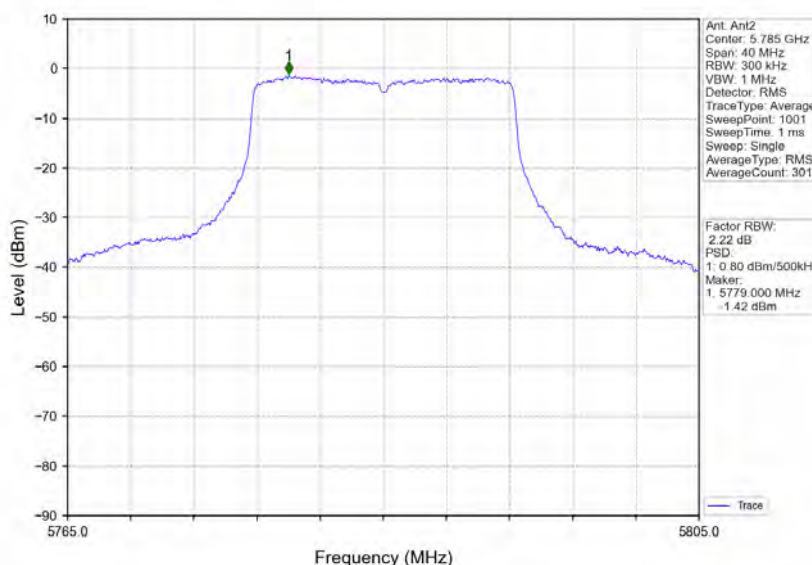
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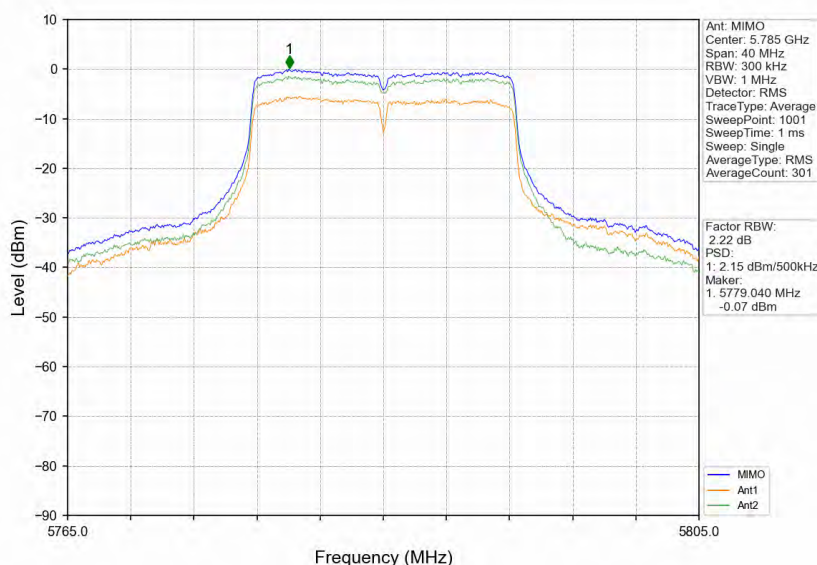
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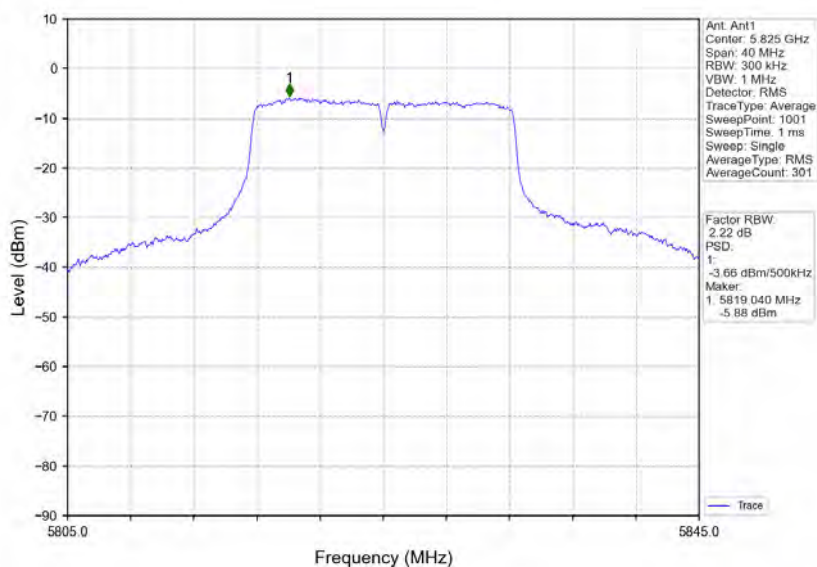
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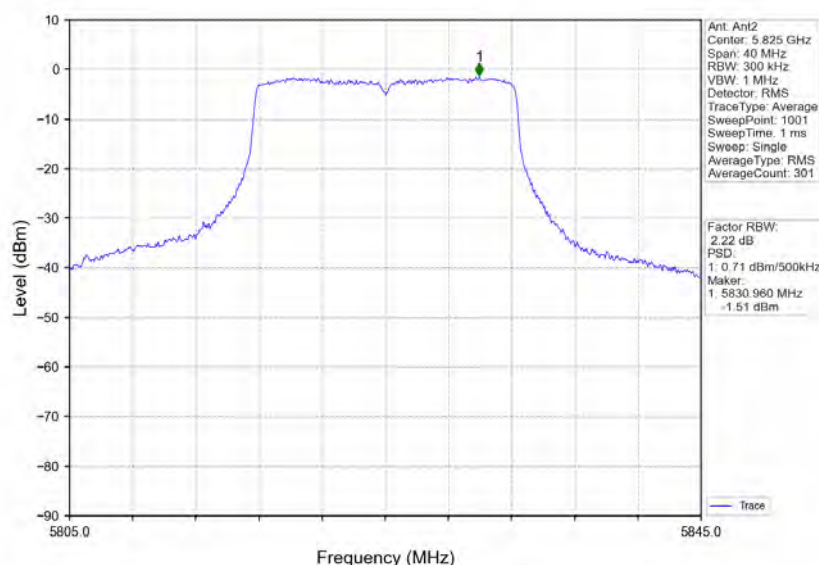
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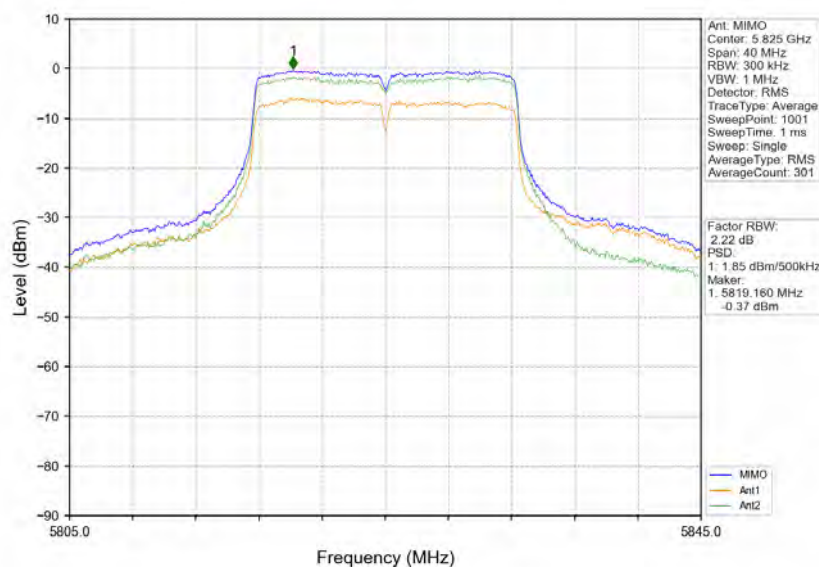
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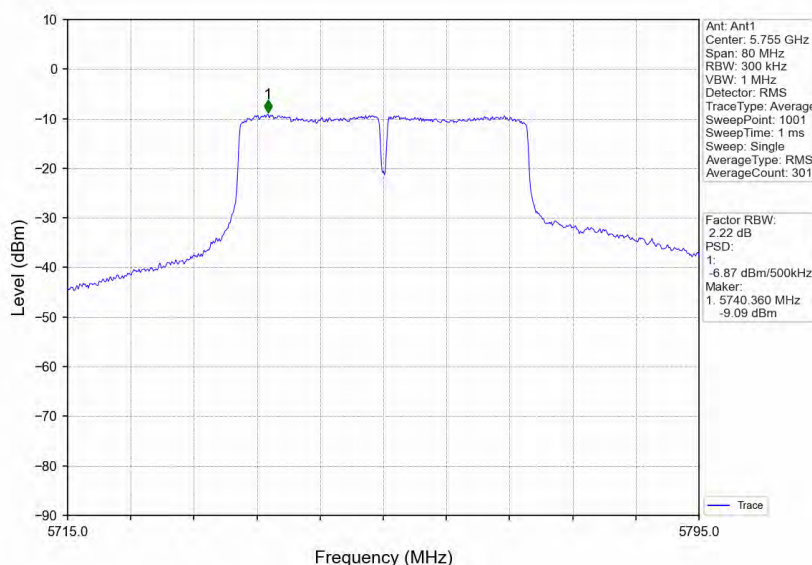
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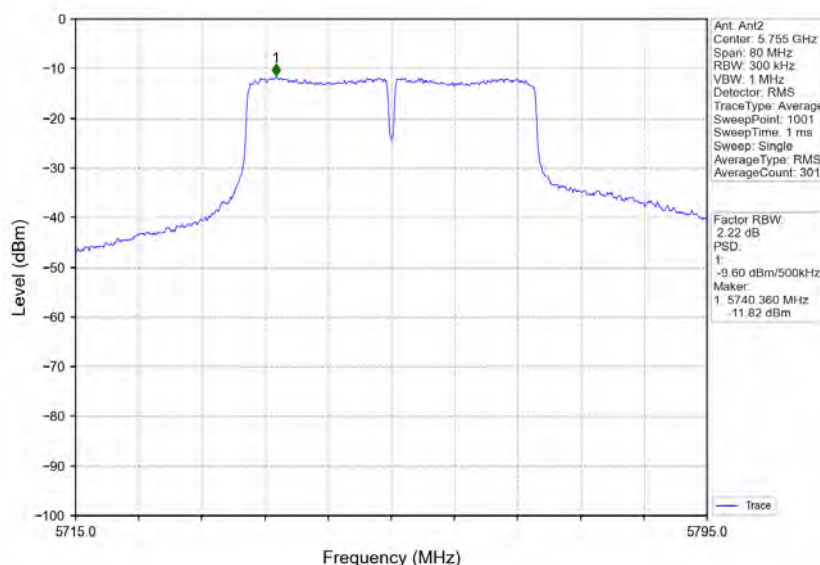
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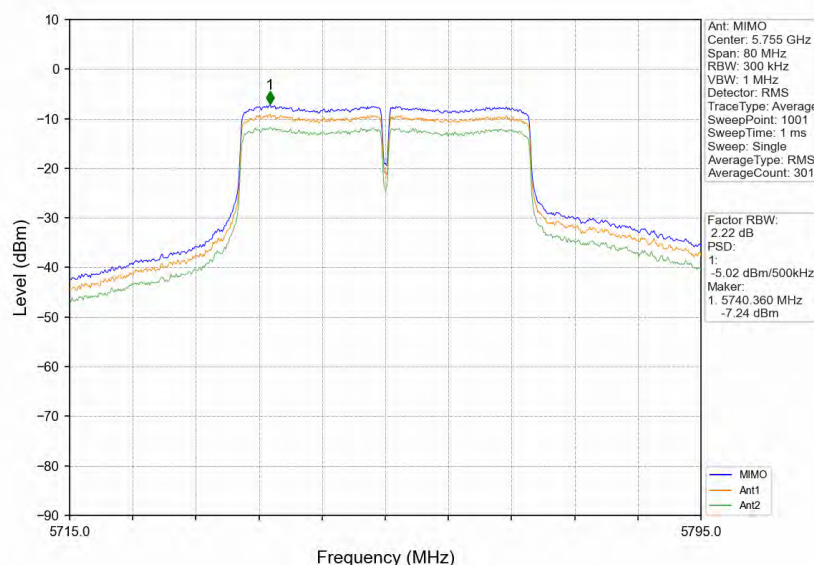
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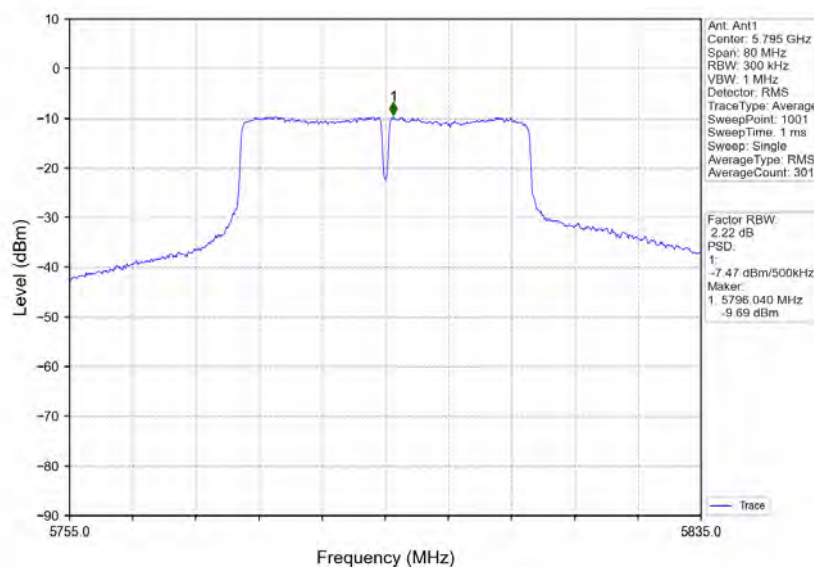
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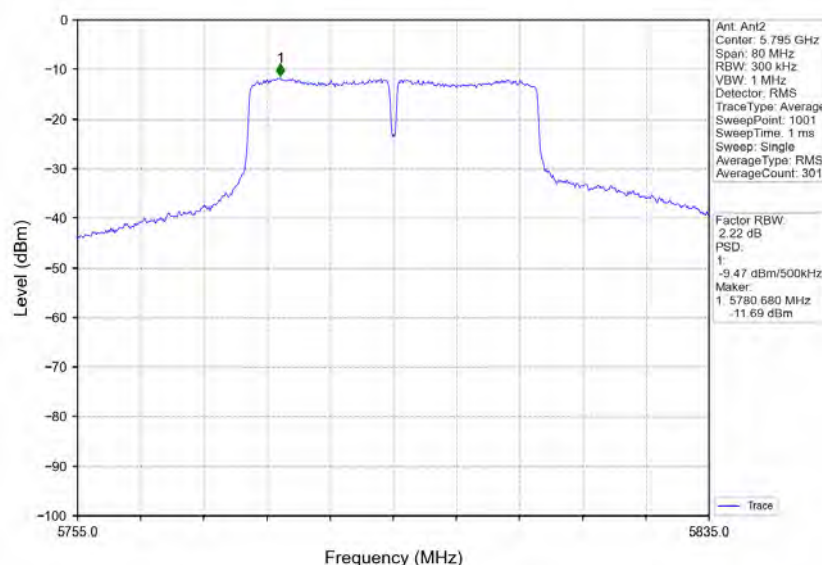
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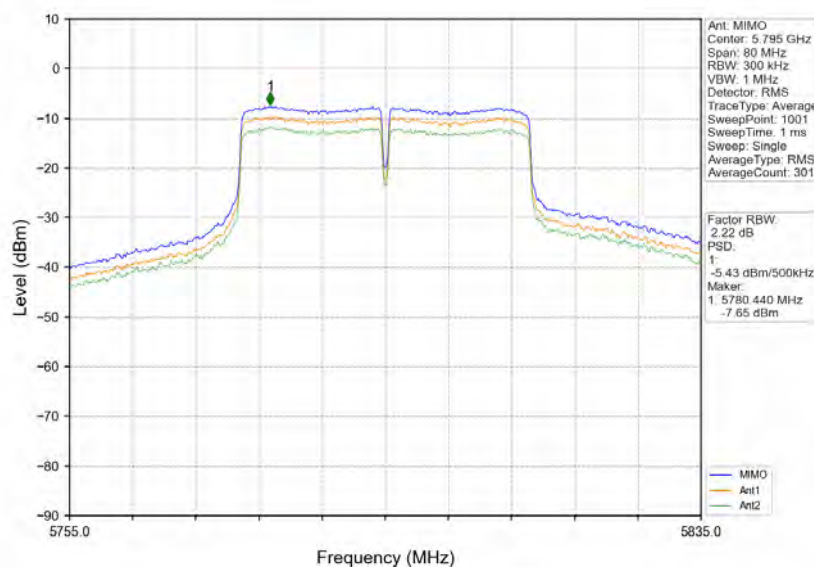
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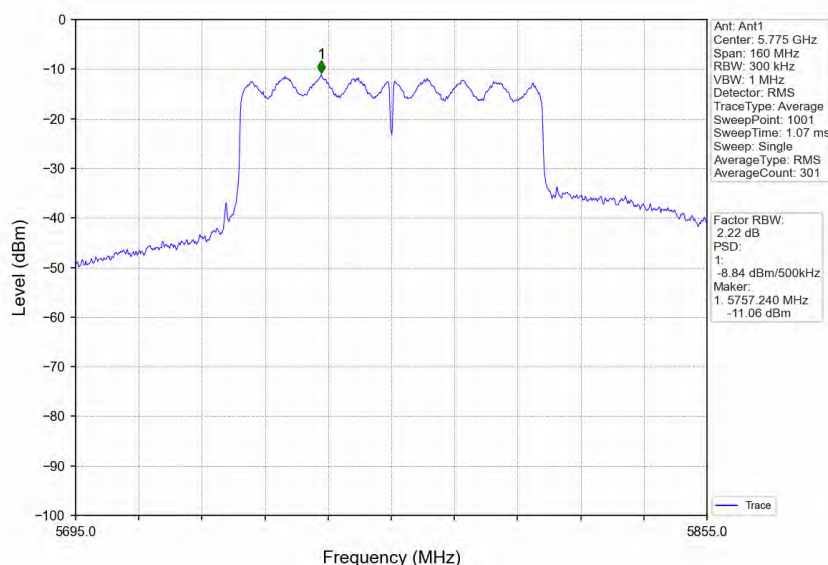
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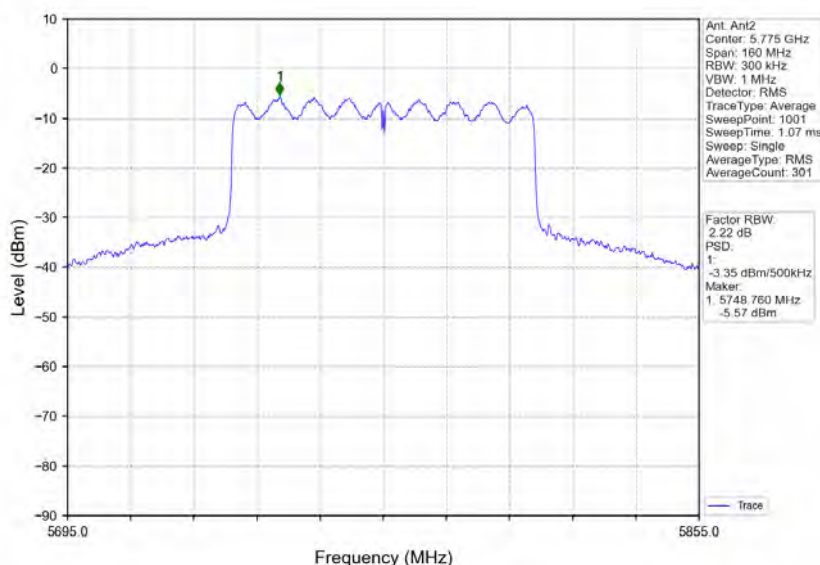
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



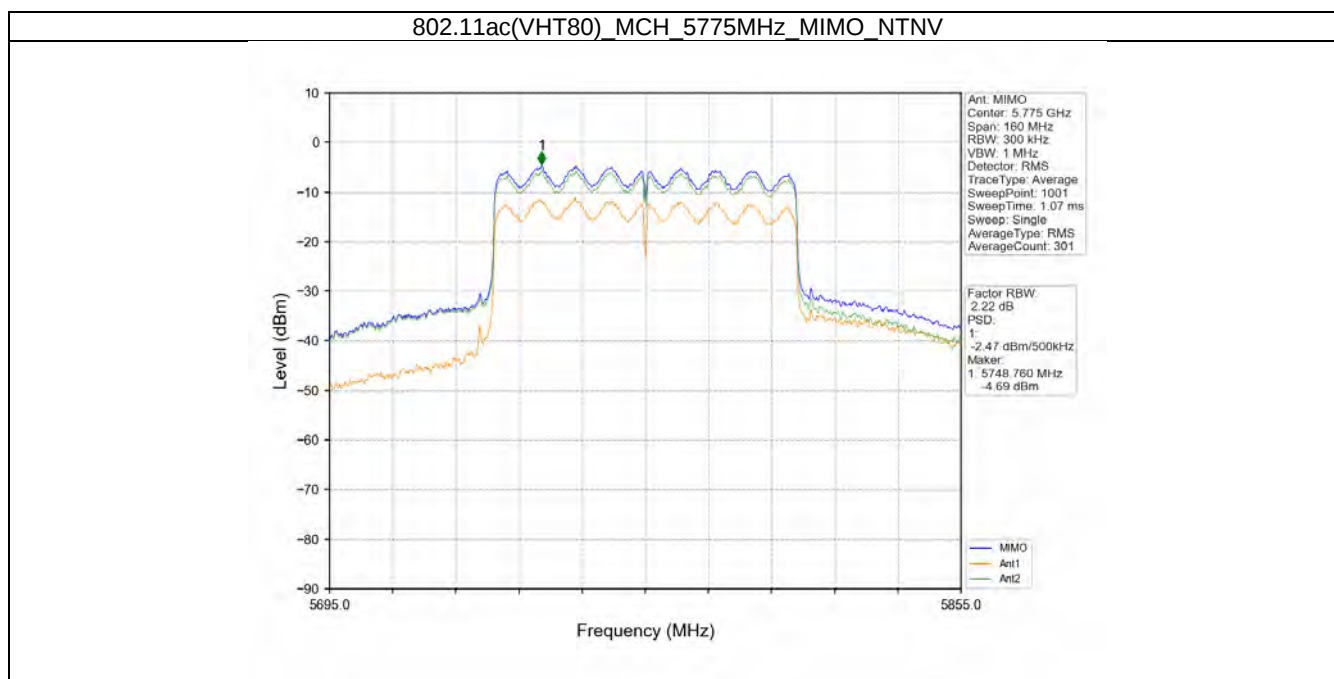
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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5745	20	102	5744.900	5725 to 5850	Pass
				120	5744.940	5725 to 5850	Pass
				138	5744.920	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.920	5725 to 5850	Pass
			-10	120	5744.920	5725 to 5850	Pass
			0	120	5744.940	5725 to 5850	Pass
			10	120	5744.960	5725 to 5850	Pass
			30	120	5744.940	5725 to 5850	Pass
			40	120	5744.920	5725 to 5850	Pass
			50	120	5744.920	5725 to 5850	Pass
		5785	20	102	5784.960	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
				138	5784.900	5725 to 5850	Pass
			-30	120	5784.900	5725 to 5850	Pass
			-20	120	5784.960	5725 to 5850	Pass
			-10	120	5784.940	5725 to 5850	Pass
			0	120	5784.920	5725 to 5850	Pass
			10	120	5784.920	5725 to 5850	Pass
			30	120	5784.920	5725 to 5850	Pass
			40	120	5784.920	5725 to 5850	Pass
			50	120	5784.920	5725 to 5850	Pass
		5825	20	102	5824.920	5725 to 5850	Pass
				120	5824.940	5725 to 5850	Pass
				138	5824.960	5725 to 5850	Pass
			-30	120	5824.940	5725 to 5850	Pass
			-20	120	5824.920	5725 to 5850	Pass
			-10	120	5824.900	5725 to 5850	Pass
			0	120	5824.900	5725 to 5850	Pass
			10	120	5824.920	5725 to 5850	Pass
			30	120	5824.920	5725 to 5850	Pass
			40	120	5824.920	5725 to 5850	Pass
			50	120	5824.900	5725 to 5850	Pass
802.11n (HT20)	MIMO	5745	20	102	5745.020	5725 to 5850	Pass
				120	5745.000	5725 to 5850	Pass
				138	5745.000	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.980	5725 to 5850	Pass
			-10	120	5744.940	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5745.000	5725 to 5850	Pass



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		5785	30	120	5745.020	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.020	5725 to 5850	Pass
			20	102	5785.000	5725 to 5850	Pass
				120	5785.060	5725 to 5850	Pass
				138	5785.040	5725 to 5850	Pass
			-30	120	5785.060	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5785.000	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5785.100	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5785.040	5725 to 5850	Pass
			50	120	5784.940	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5824.980	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5824.920	5725 to 5850	Pass
			0	120	5824.980	5725 to 5850	Pass
			10	120	5824.980	5725 to 5850	Pass
			30	120	5825.060	5725 to 5850	Pass
			40	120	5824.980	5725 to 5850	Pass
			50	120	5825.060	5725 to 5850	Pass
802.11n (HT40)	MIMO	5755	20	102	5755.000	5725 to 5850	Pass
				120	5754.960	5725 to 5850	Pass
				138	5754.960	5725 to 5850	Pass
			-30	120	5755.000	5725 to 5850	Pass
			-20	120	5755.000	5725 to 5850	Pass
			-10	120	5755.000	5725 to 5850	Pass
			0	120	5755.040	5725 to 5850	Pass
			10	120	5754.960	5725 to 5850	Pass
			30	120	5755.000	5725 to 5850	Pass
			40	120	5755.000	5725 to 5850	Pass
			50	120	5755.080	5725 to 5850	Pass
		5795	20	102	5795.080	5725 to 5850	Pass
				120	5795.040	5725 to 5850	Pass
				138	5795.000	5725 to 5850	Pass
			-30	120	5795.040	5725 to 5850	Pass
			-20	120	5795.040	5725 to 5850	Pass
			-10	120	5794.960	5725 to 5850	Pass
			0	120	5795.040	5725 to 5850	Pass
			10	120	5795.000	5725 to 5850	Pass
			30	120	5795.040	5725 to 5850	Pass
			40	120	5794.960	5725 to 5850	Pass
			50	120	5794.920	5725 to 5850	Pass
802.11ac (VHT20)	MIMO	5745	20	102	5744.980	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5744.980	5725 to 5850	Pass
			-30	120	5744.980	5725 to 5850	Pass
			-20	120	5745.000	5725 to 5850	Pass

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			-10	120	5744.980	5725 to 5850	Pass
			0	120	5745.040	5725 to 5850	Pass
			10	120	5744.940	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.060	5725 to 5850	Pass
		5785	20	102	5785.000	5725 to 5850	Pass
				120	5785.000	5725 to 5850	Pass
				138	5785.000	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5785.000	5725 to 5850	Pass
			10	120	5785.040	5725 to 5850	Pass
			30	120	5785.000	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
		5825	20	102	5825.000	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.020	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5825.060	5725 to 5850	Pass
			0	120	5825.000	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass
			40	120	5824.960	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
802.11ac (VHT40)	MIMO	5755	20	102	5755.040	5725 to 5850	Pass
				120	5755.040	5725 to 5850	Pass
				138	5755.080	5725 to 5850	Pass
			-30	120	5755.000	5725 to 5850	Pass
			-20	120	5755.120	5725 to 5850	Pass
			-10	120	5755.000	5725 to 5850	Pass
			0	120	5755.040	5725 to 5850	Pass
			10	120	5755.080	5725 to 5850	Pass
			30	120	5755.120	5725 to 5850	Pass
			40	120	5755.040	5725 to 5850	Pass
			50	120	5755.040	5725 to 5850	Pass
		5795	20	102	5795.000	5725 to 5850	Pass
				120	5795.040	5725 to 5850	Pass
				138	5795.080	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
			-20	120	5795.040	5725 to 5850	Pass
			-10	120	5795.040	5725 to 5850	Pass
			0	120	5795.040	5725 to 5850	Pass
			10	120	5795.040	5725 to 5850	Pass
			30	120	5795.080	5725 to 5850	Pass
			40	120	5795.000	5725 to 5850	Pass
			50	120	5795.040	5725 to 5850	Pass
802.11ac (VHT80)	MIMO	5775	20	102	5775.000	5725 to 5850	Pass
				120	5775.000	5725 to 5850	Pass

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				138	5775.000	5725 to 5850	Pass
			-30	120	5775.075	5725 to 5850	Pass
			-20	120	5775.075	5725 to 5850	Pass
			-10	120	5775.000	5725 to 5850	Pass
			0	120	5775.000	5725 to 5850	Pass
			10	120	5775.000	5725 to 5850	Pass
			30	120	5775.075	5725 to 5850	Pass
			40	120	5775.000	5725 to 5850	Pass
			50	120	5775.000	5725 to 5850	Pass



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