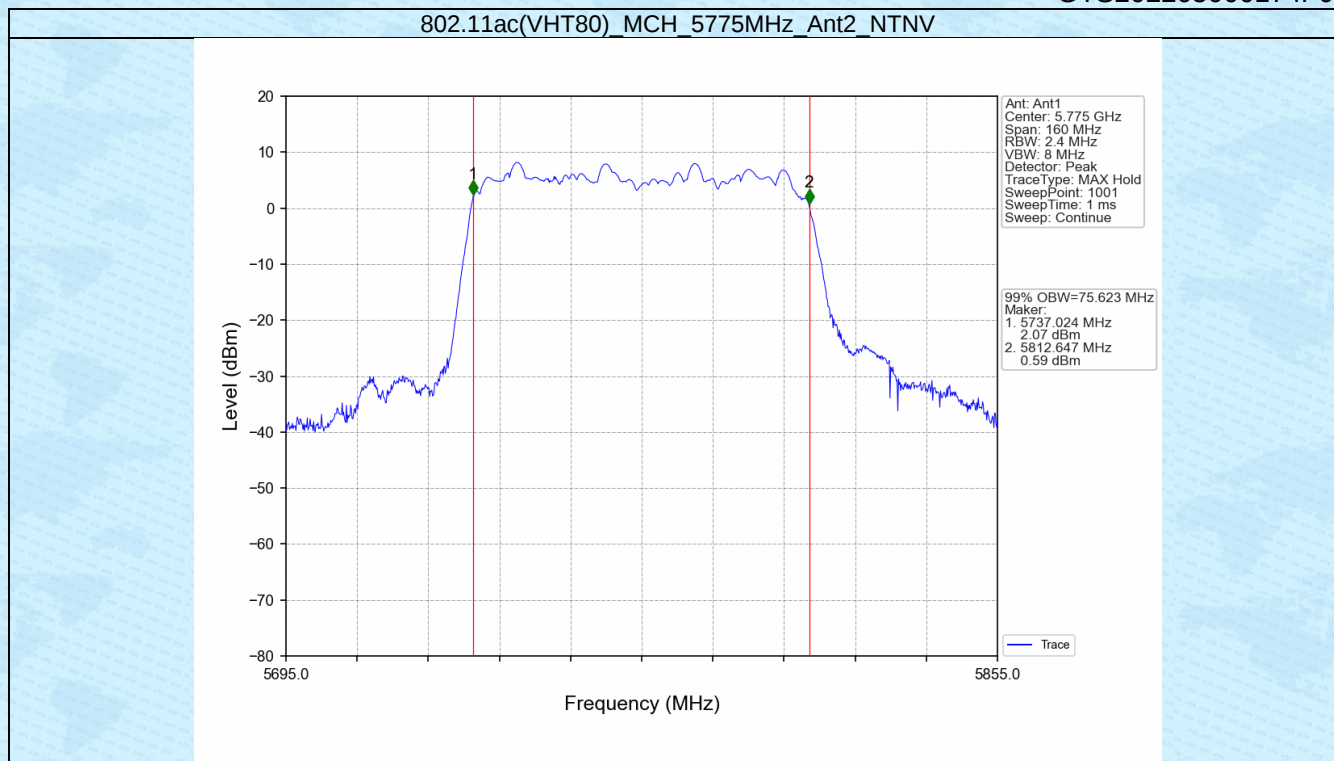




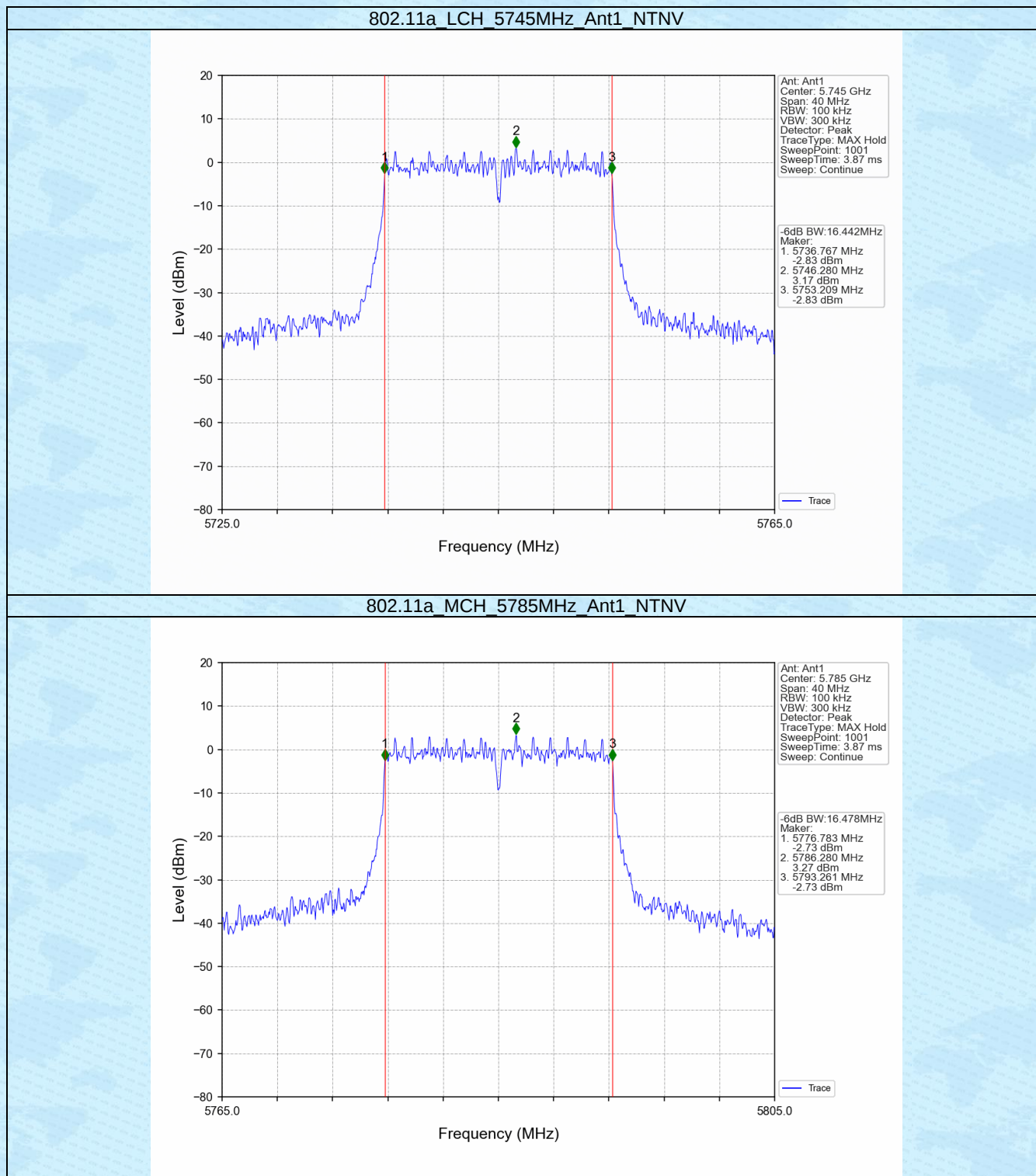
2.2 6dB BW

2.2.1 Test Result

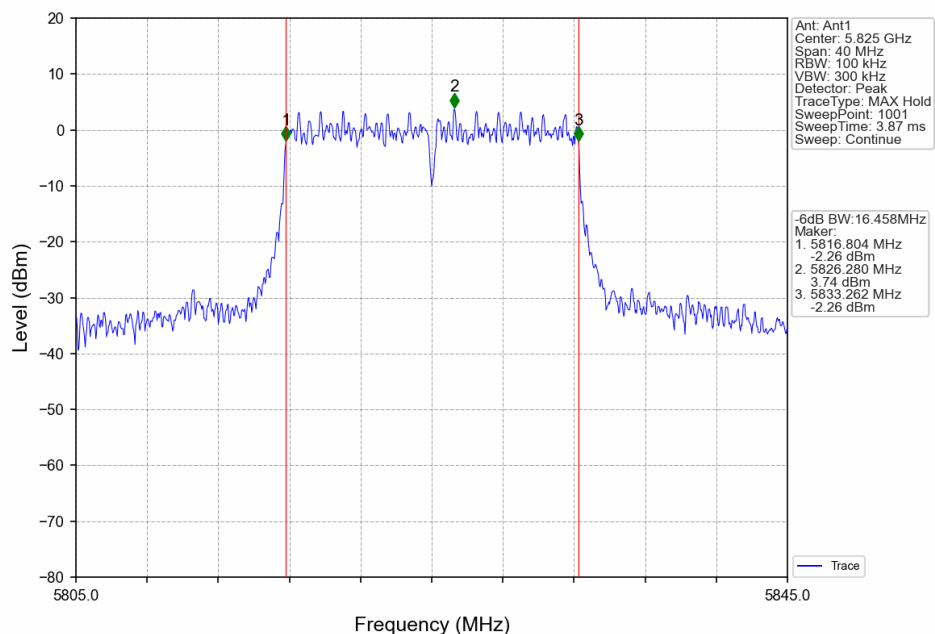
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.442	≥ 0.5	Pass
		5785	1	16.478	≥ 0.5	Pass
		5825	1	16.458	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.680	≥ 0.5	Pass
		5785	1	17.645	≥ 0.5	Pass
		5825	1	17.603	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.498	≥ 0.5	Pass
		5795	1	35.417	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.626	≥ 0.5	Pass
		5785	1	17.595	≥ 0.5	Pass
		5825	1	17.665	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.525	≥ 0.5	Pass
		5795	1	35.502	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.156	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	2	16.510	≥ 0.5	Pass
		5785	2	16.472	≥ 0.5	Pass
		5825	2	16.436	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	2	17.621	≥ 0.5	Pass
		5785	2	17.661	≥ 0.5	Pass
		5825	2	17.537	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	2	36.074	≥ 0.5	Pass
		5795	2	35.837	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	2	17.686	≥ 0.5	Pass
		5785	2	17.699	≥ 0.5	Pass
		5825	2	17.645	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	2	35.204	≥ 0.5	Pass
		5795	2	35.292	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	2	75.168	≥ 0.5	Pass

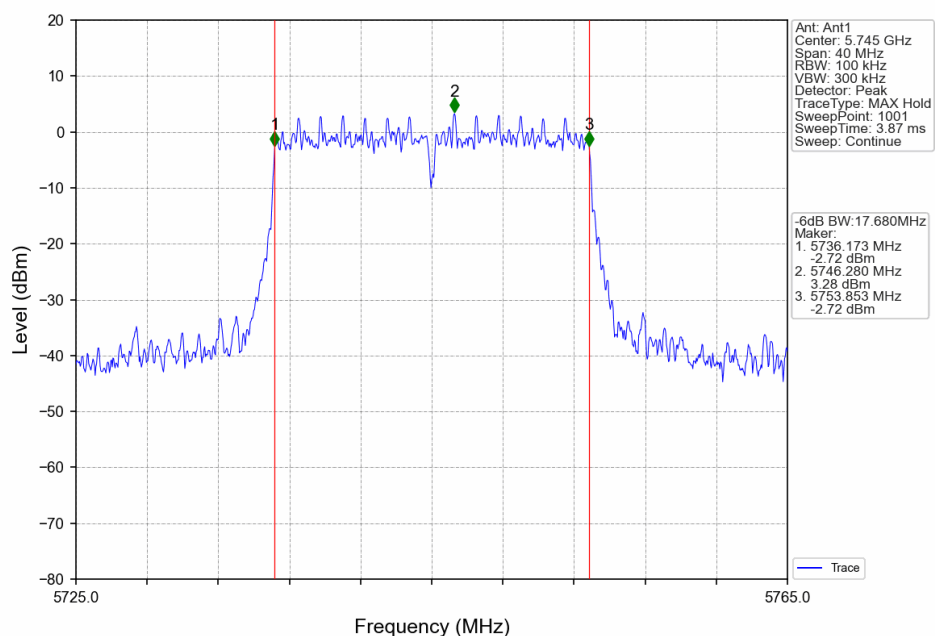
2.2.2 Test Graph



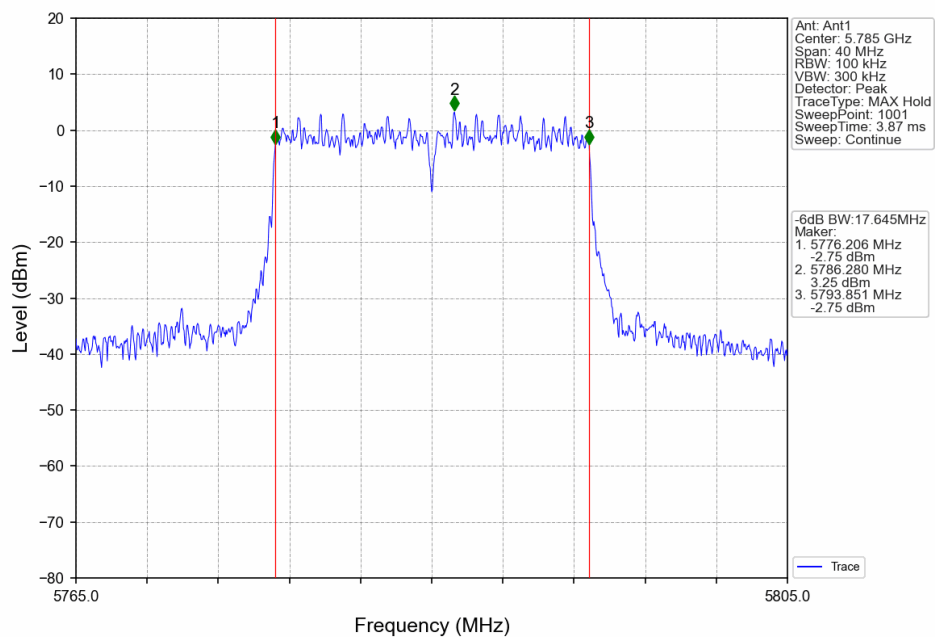
802.11a_HCH_5825MHz_Ant1_NTNV



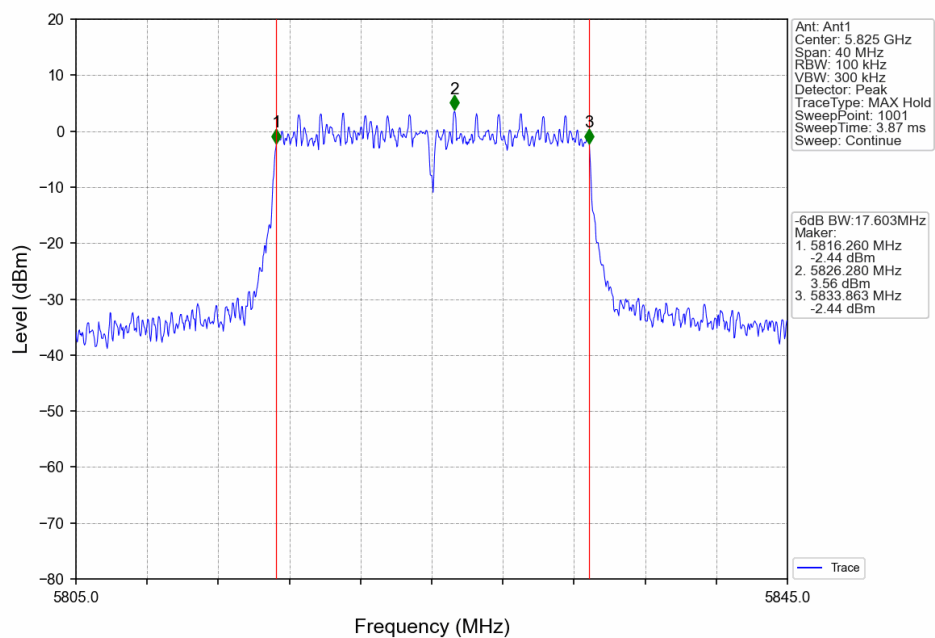
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



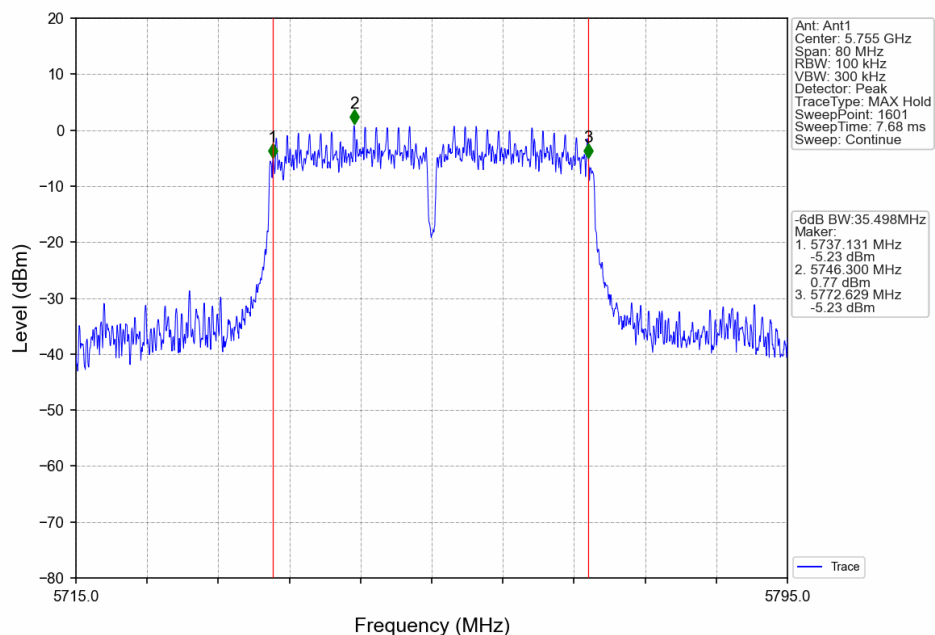
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



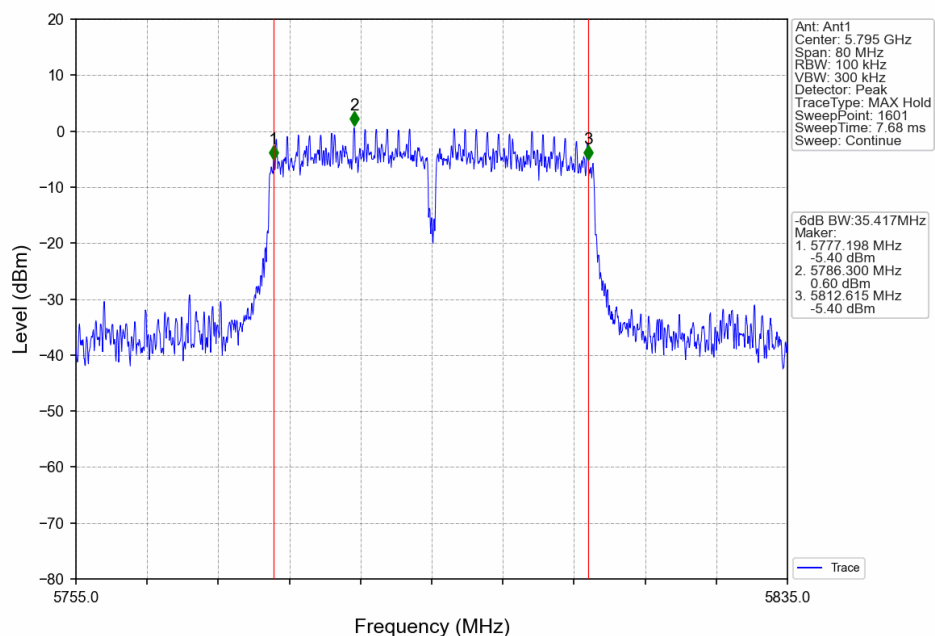
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



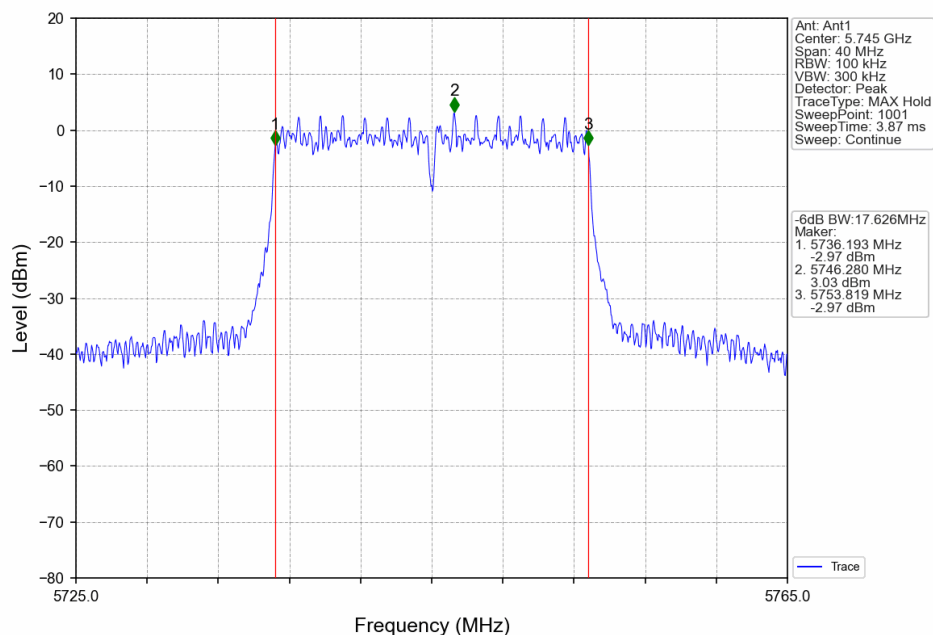
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



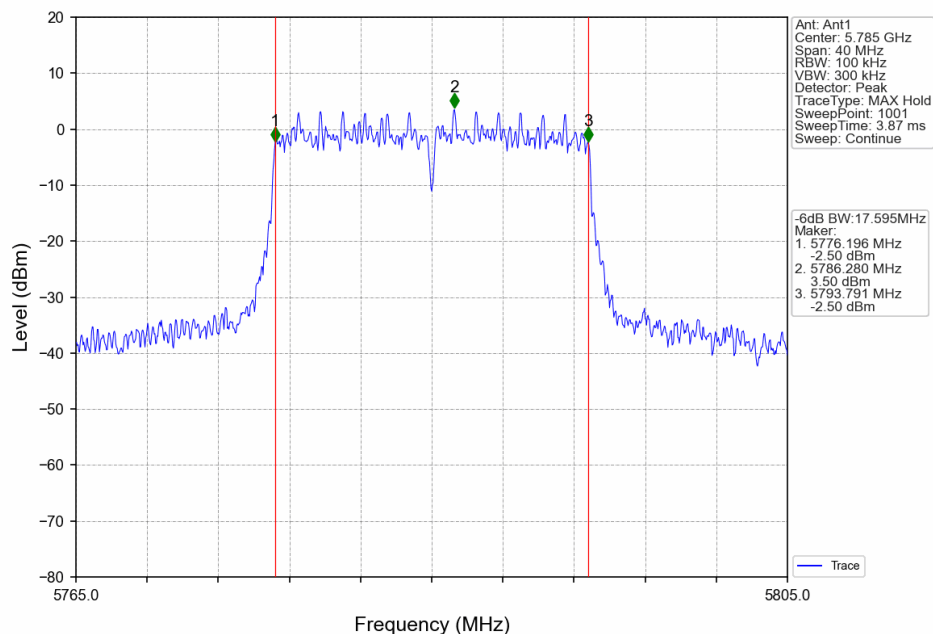
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



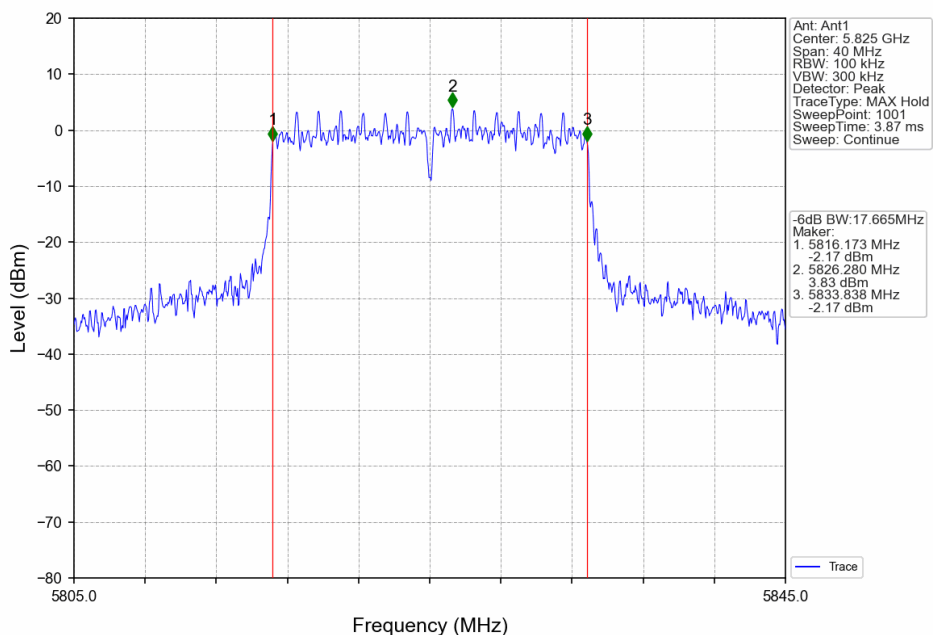
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



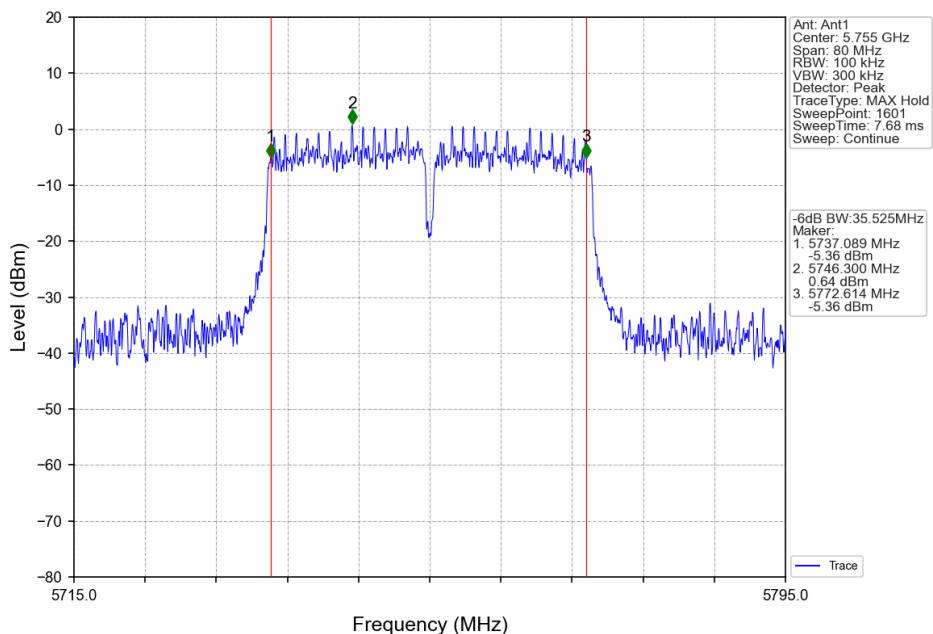
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



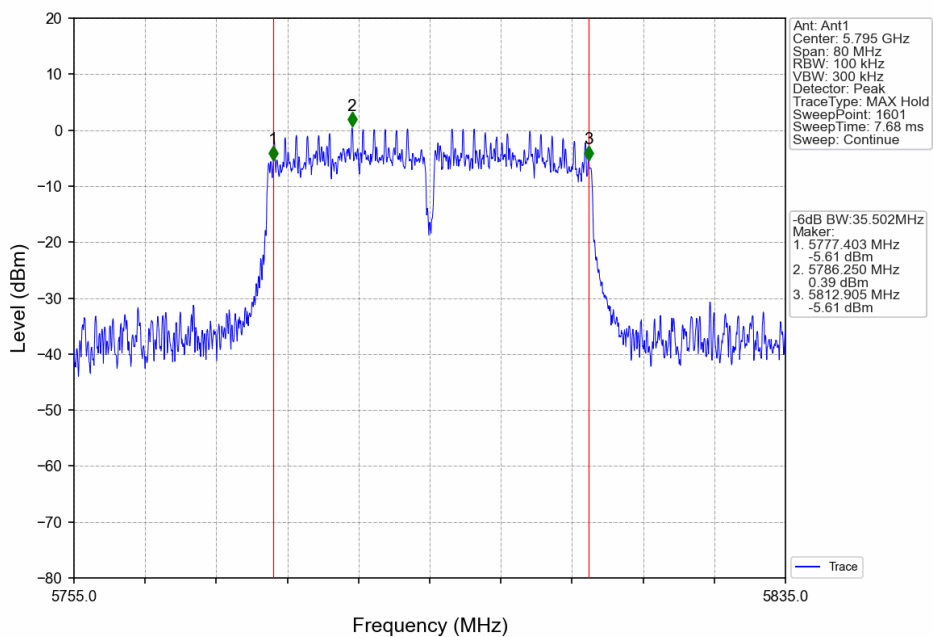
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



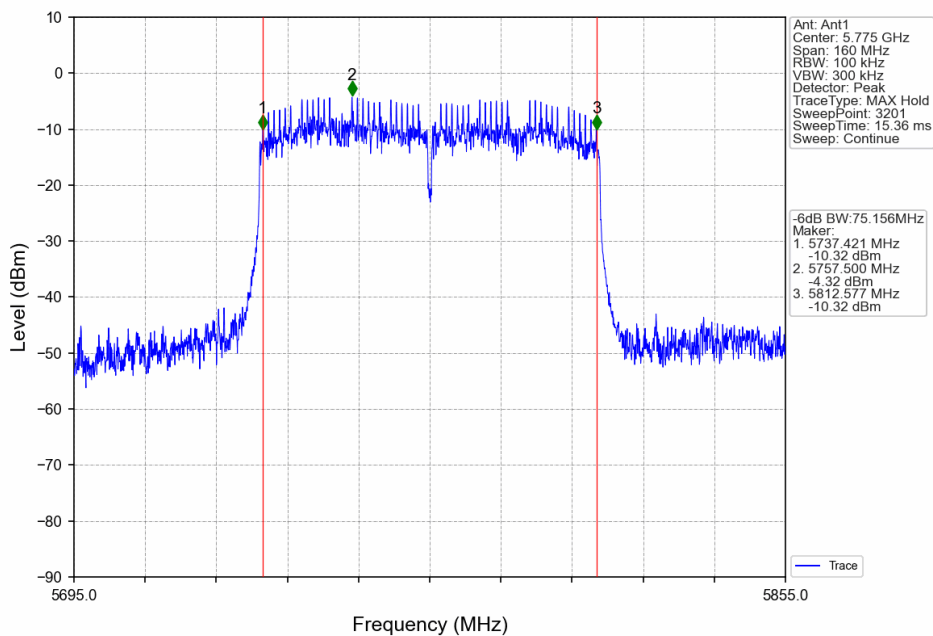
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



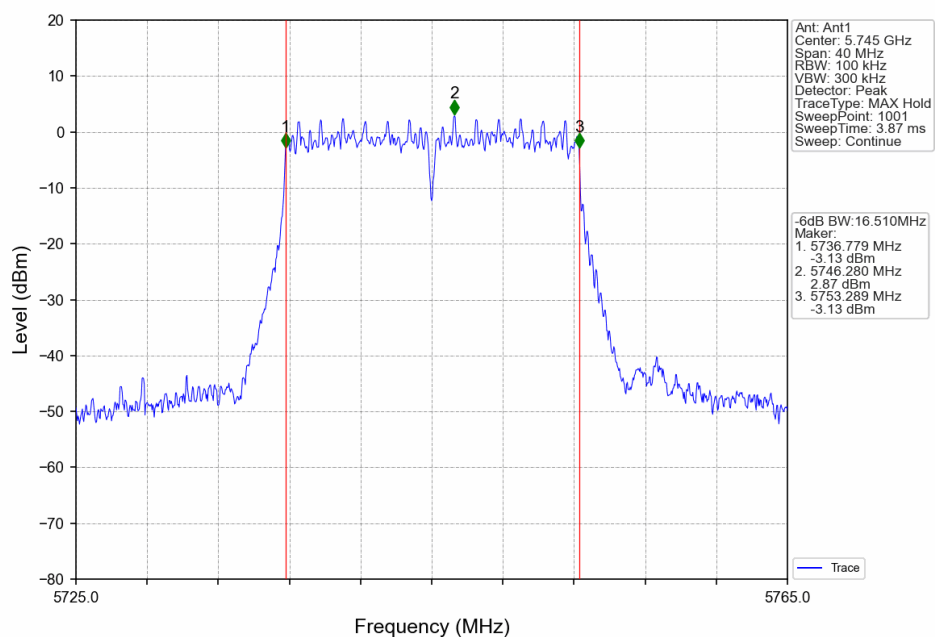
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



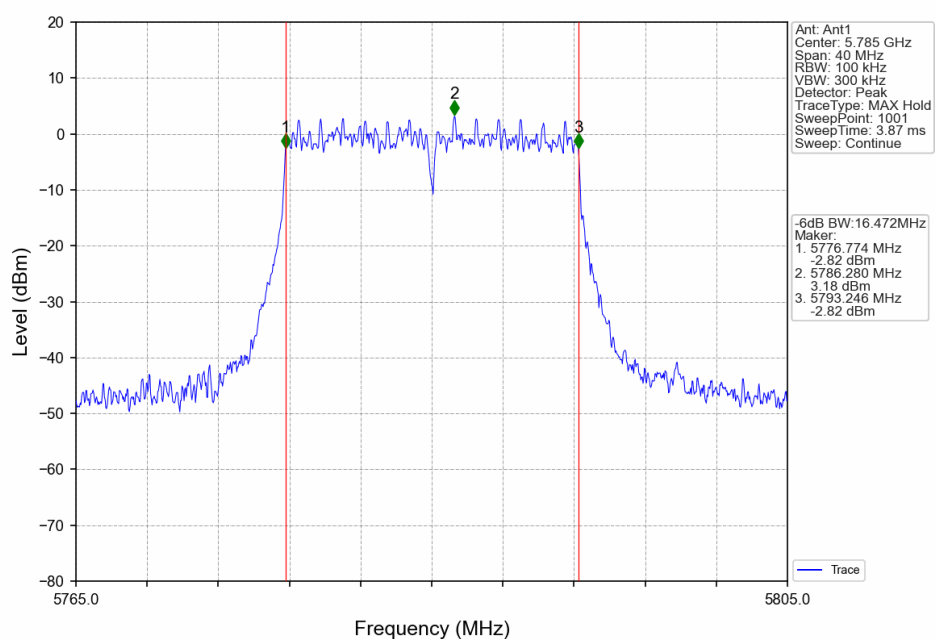
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



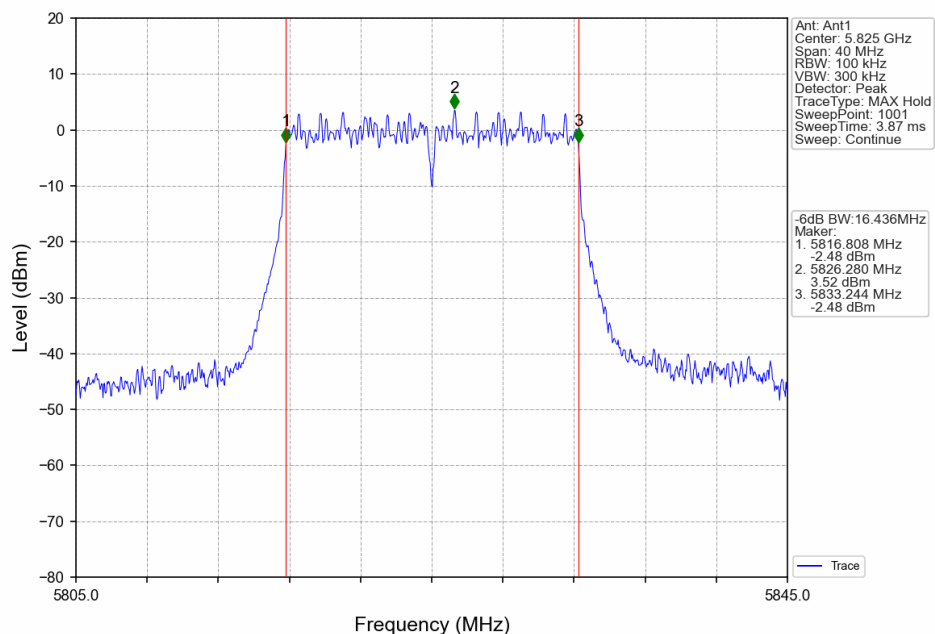
802.11a LCH_5745MHz_Ant2_NTNV



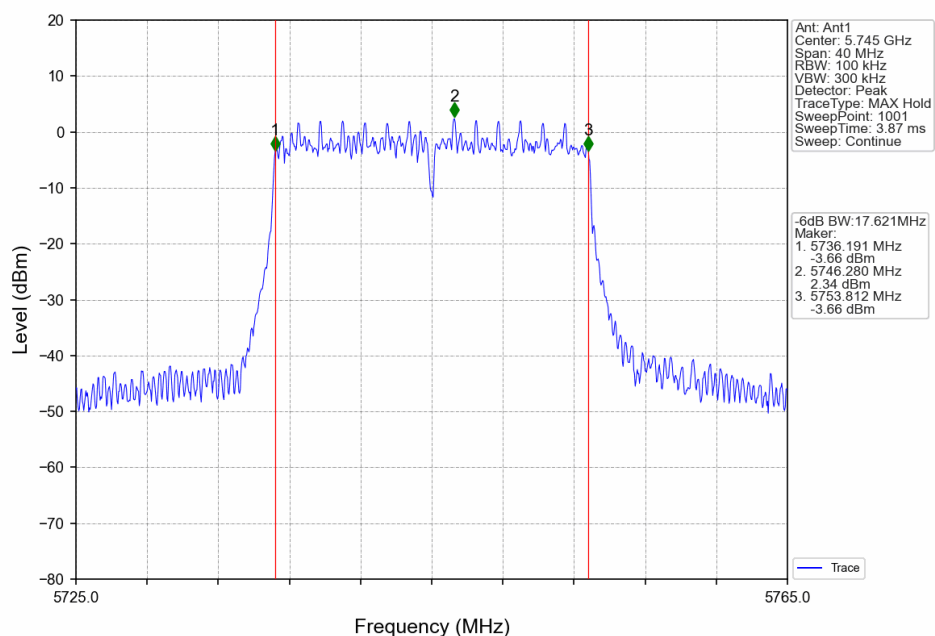
802.11a MCH_5785MHz_Ant2_NTNV



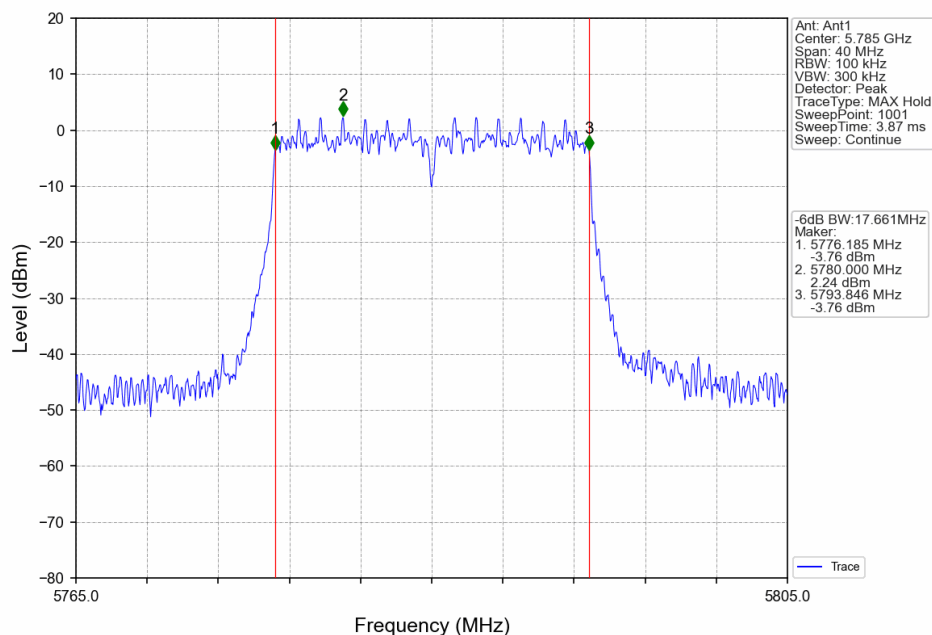
802.11a_HCH_5825MHz_Ant2_NTNV



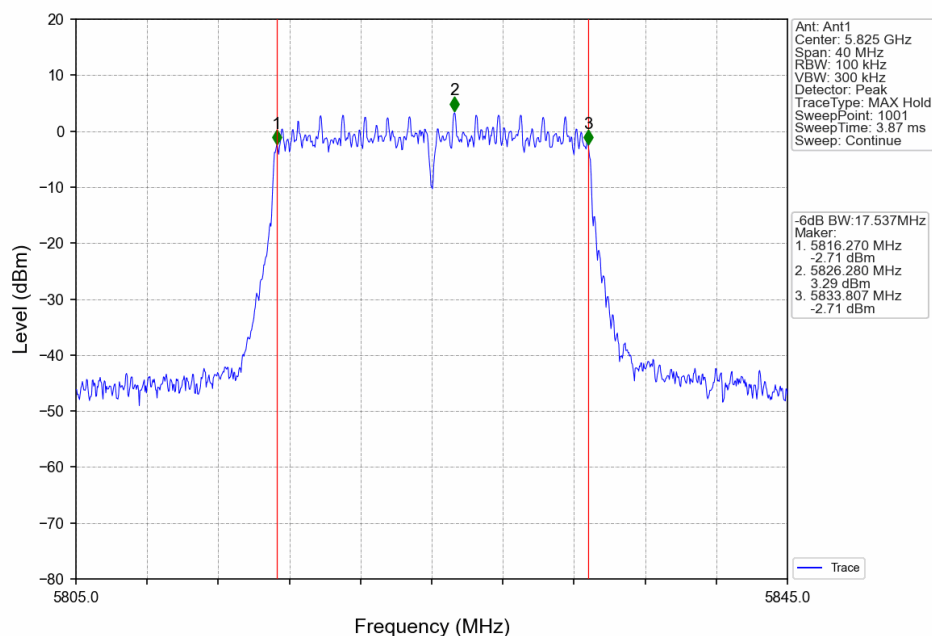
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



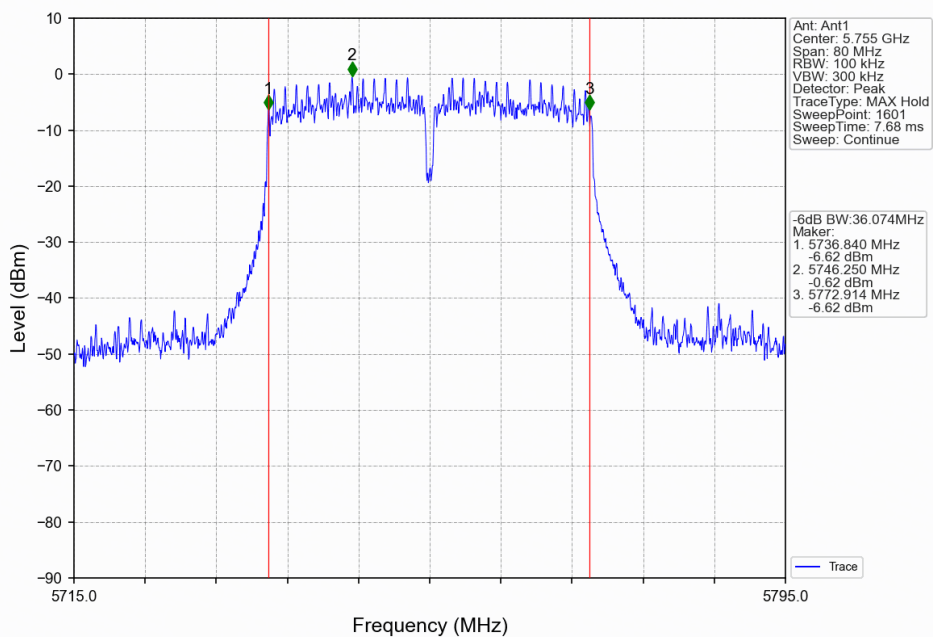
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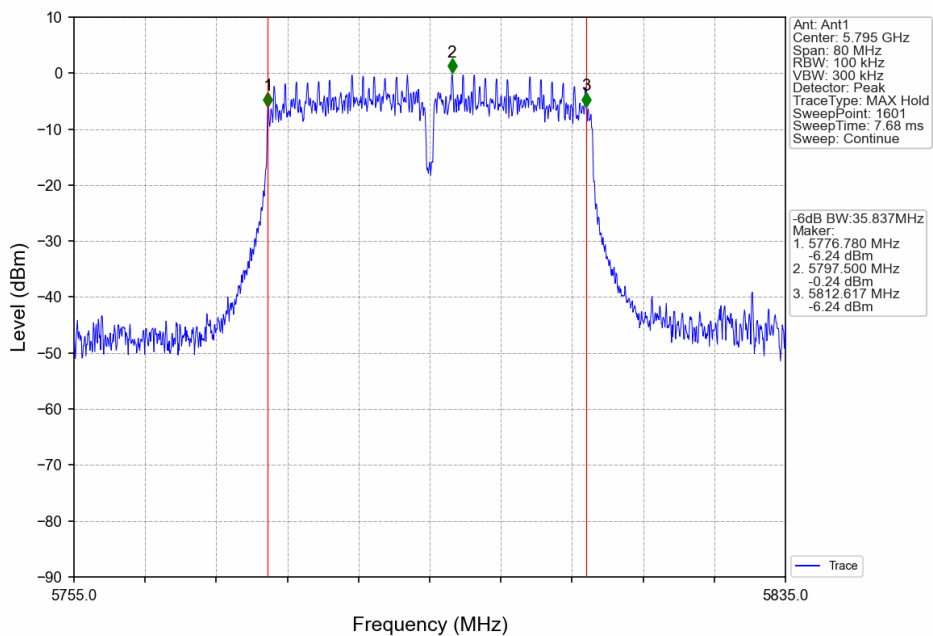
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



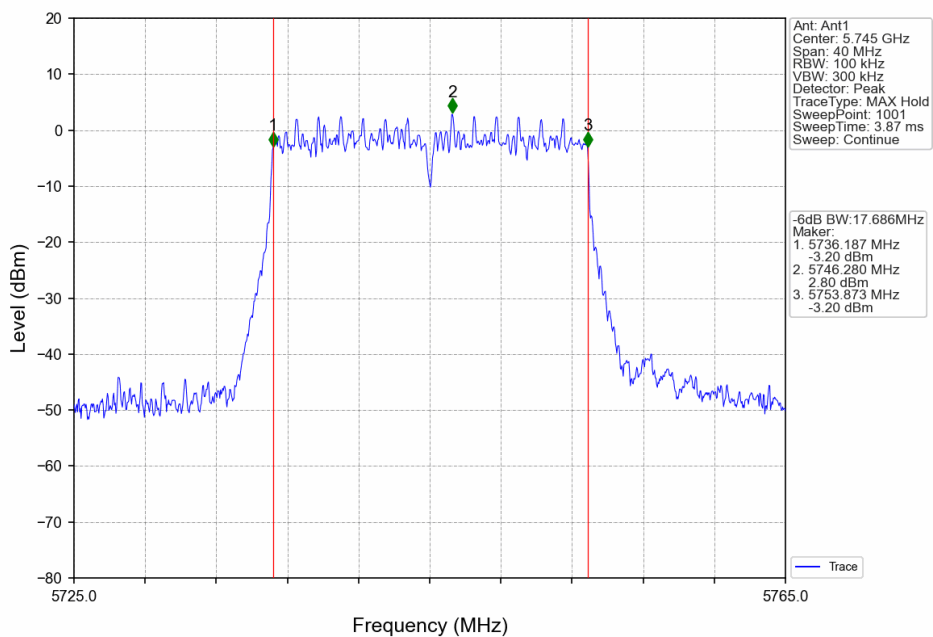
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



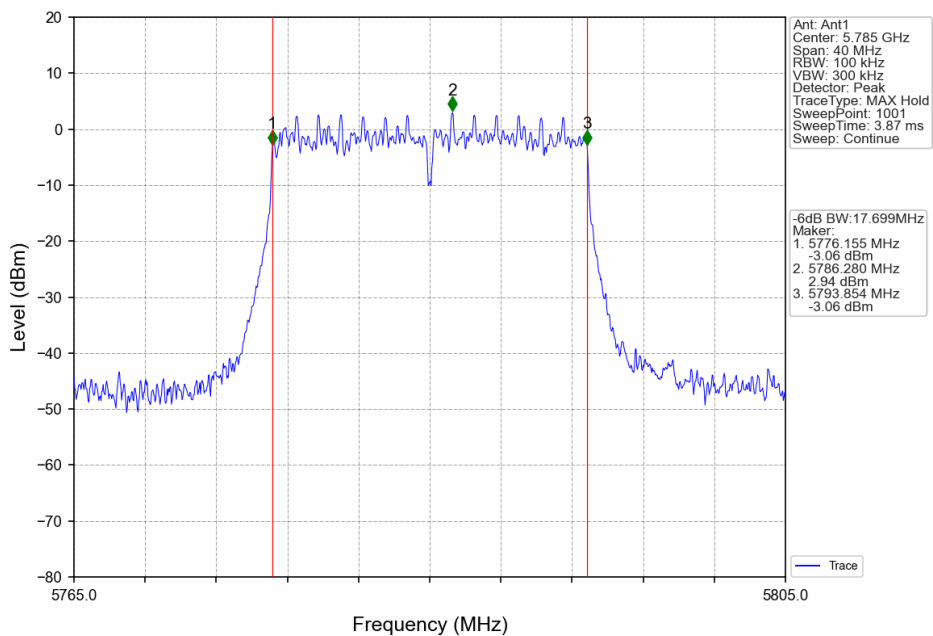
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



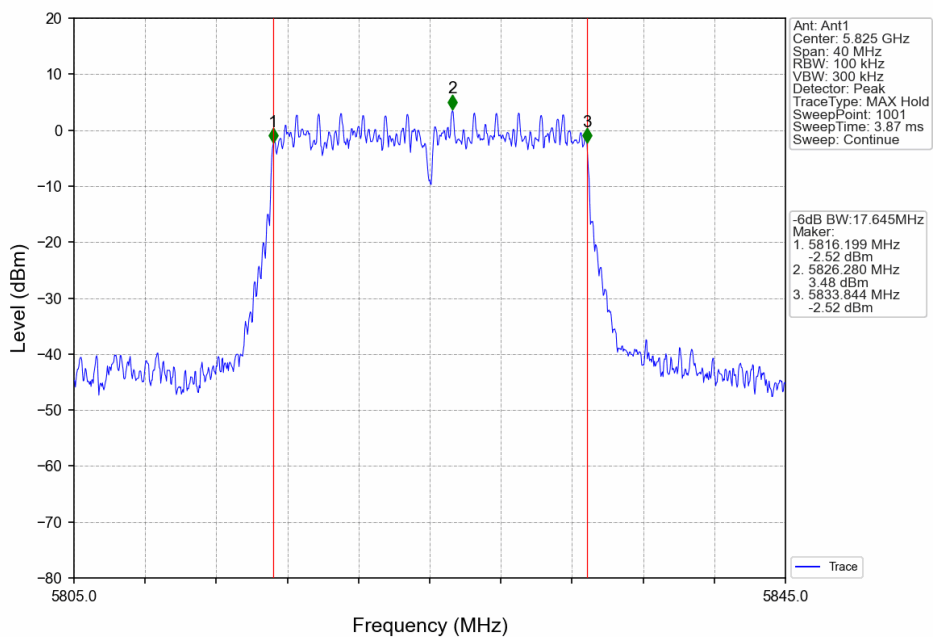
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



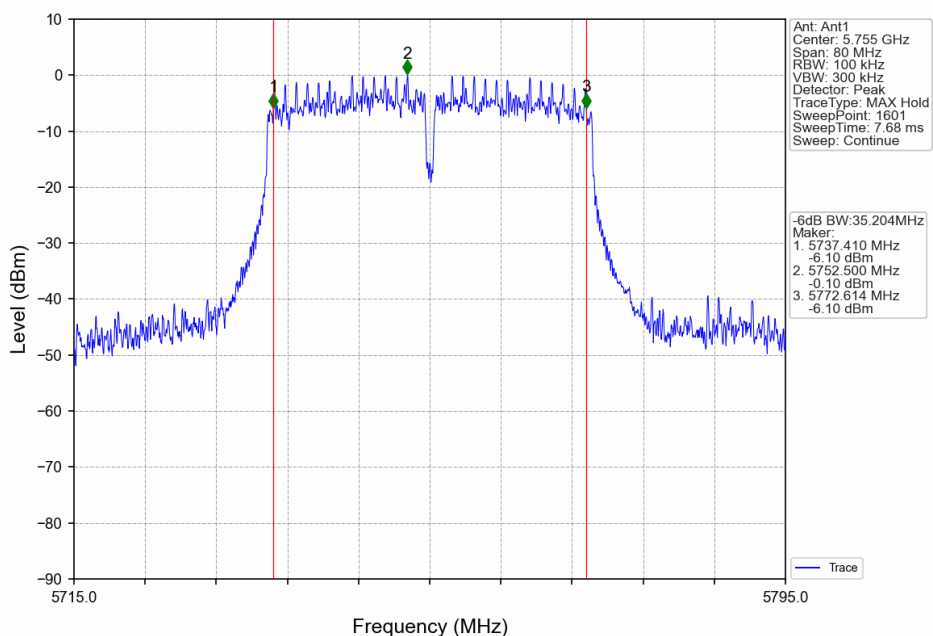
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



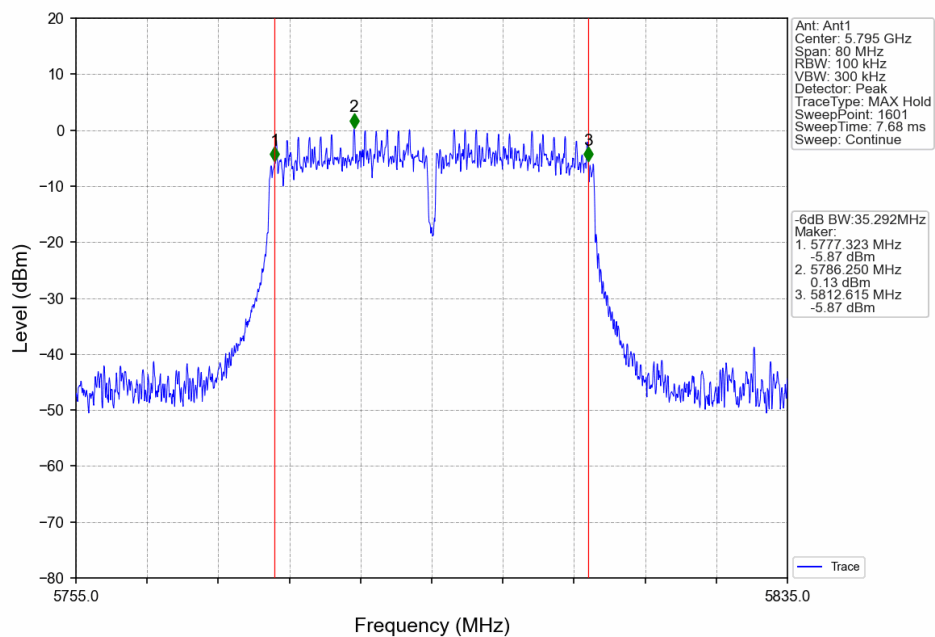
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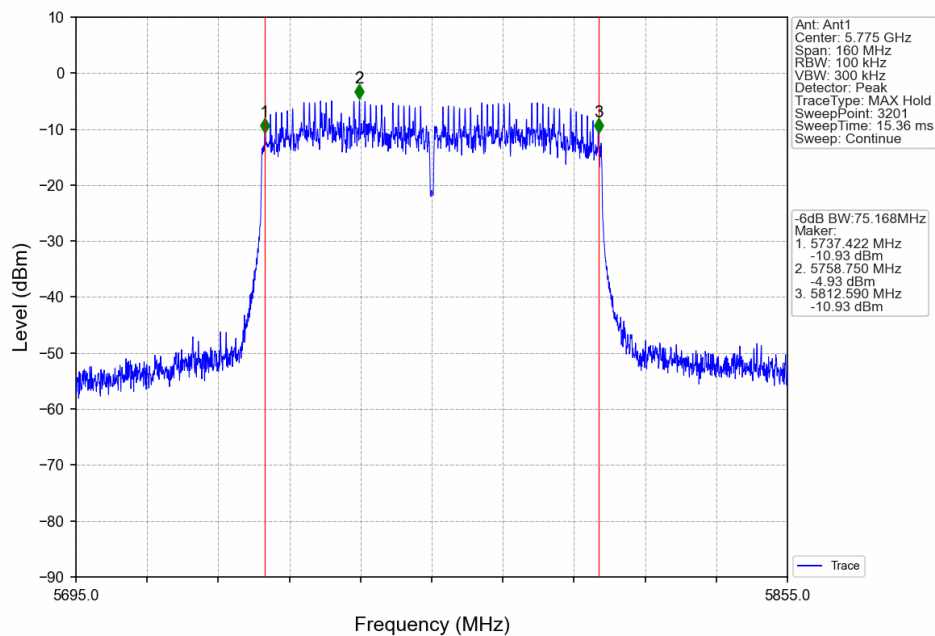
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

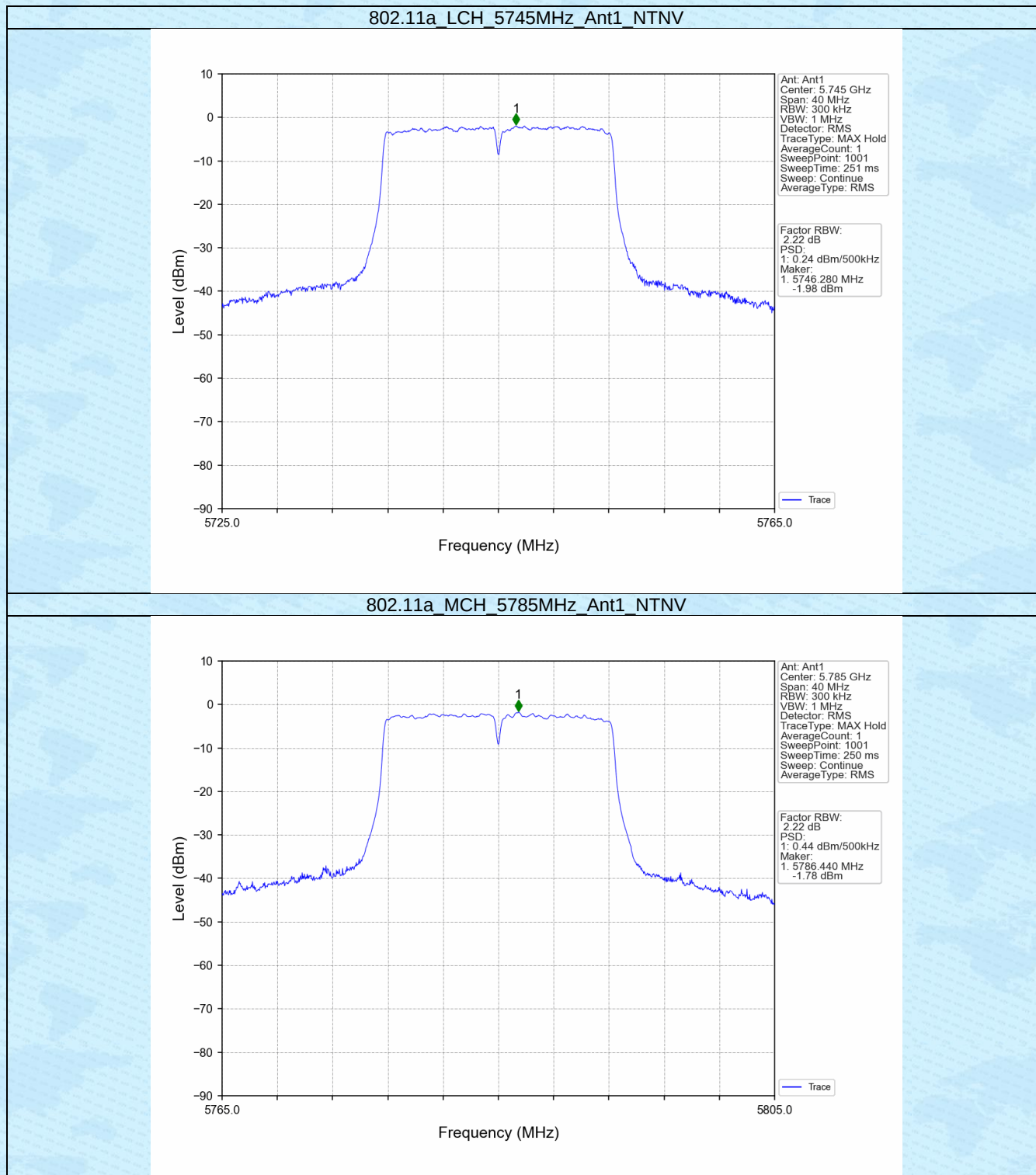
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit(dBm)	Verdict
802.11a	1	5745	14.16	<=30	Pass
	2	5745	13.71	<=30	Pass
	1	5785	14.35	<=30	Pass
	2	5785	14.09	<=30	Pass
	1	5825	14.65	<=30	Pass
	2	5825	14.77	<=30	Pass
802.11n (HT20)	1	5745	14.22	<=30	Pass
	2	5745	13.18	<=30	Pass
	Total	5745	16.74	<=30	Pass
	1	5785	14.26	<=30	Pass
	2	5785	13.58	<=30	Pass
	Total	5785	16.94	<=30	Pass
	1	5825	14.55	<=30	Pass
	2	5825	14.23	<=30	Pass
	Total	5825	17.40	<=30	Pass
802.11n (HT40)	1	5755	14.54	<=30	Pass
	2	5755	13.24	<=30	Pass
	Total	5755	16.95	<=30	Pass
	1	5795	14.30	<=30	Pass
	2	5795	13.48	<=30	Pass
	Total	5795	16.92	<=30	Pass
802.11ac (VHT20)	1	5745	13.68	<=30	Pass
	2	5745	13.67	<=30	Pass
	Total	5745	16.69	<=30	Pass
	1	5785	14.45	<=30	Pass
	2	5785	13.88	<=30	Pass
	Total	5785	17.18	<=30	Pass
	1	5825	14.80	<=30	Pass
	2	5825	14.58	<=30	Pass
	Total	5825	17.70	<=30	Pass
802.11ac (VHT40)	1	5755	12.08	<=30	Pass
	2	5755	13.81	<=30	Pass
	Total	5755	16.04	<=30	Pass
	1	5795	14.17	<=30	Pass
	2	5795	13.98	<=30	Pass
	Total	5795	17.09	<=30	Pass
802.11ac (VHT80)	1	5775	12.05	<=30	Pass
	2	5775	11.74	<=30	Pass
	Total	5775	14.92	<=30	Pass
Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 1.95dBi Note2: transmit signals are completely correlated, Directional gain= $10 \times \log[(10^{1.94}/20 + 10^{1.95}/20)^2/2] = 4.96 \text{ dBi}$ Note3: Test result contains duty factor($10 \times \log(1/\text{duty cycle})$)					

4. Maximum Power Spectral Density

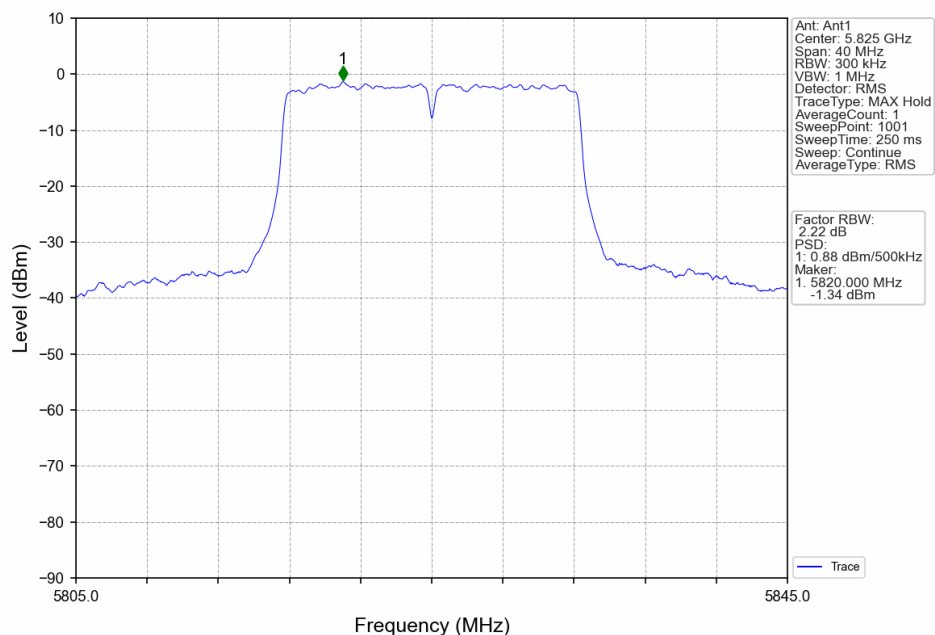
4.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)	Limit(dBm/500kHz)	Verdict
802.11a	1	5745	0.24	<=30	Pass
	2	5745	-0.08	<=30	Pass
	1	5785	0.44	<=30	Pass
	2	5785	0.44	<=30	Pass
	1	5825	0.88	<=30	Pass
	2	5825	0.93	<=30	Pass
802.11n (HT20)	1	5745	-0.04	<=30	Pass
	2	5745	-0.78	<=30	Pass
	Total	5745	2.62	<=30	Pass
	1	5785	0.37	<=30	Pass
	2	5785	-0.30	<=30	Pass
	Total	5785	3.06	<=30	Pass
	1	5825	0.57	<=30	Pass
	2	5825	0.24	<=30	Pass
	Total	5825	3.42	<=30	Pass
802.11n (HT40)	1	5755	-1.28	<=30	Pass
	2	5755	-2.96	<=30	Pass
	Total	5755	0.97	<=30	Pass
	1	5795	-1.77	<=30	Pass
	2	5795	-2.87	<=30	Pass
	Total	5795	0.73	<=30	Pass
802.11ac (VHT20)	1	5745	-0.26	<=30	Pass
	2	5745	-0.11	<=30	Pass
	Total	5745	2.83	<=30	Pass
	1	5785	0.71	<=30	Pass
	2	5785	0.19	<=30	Pass
	Total	5785	3.47	<=30	Pass
	1	5825	1.22	<=30	Pass
	2	5825	0.93	<=30	Pass
	Total	5825	4.09	<=30	Pass
802.11ac (VHT40)	1	5755	-1.49	<=30	Pass
	2	5755	-2.22	<=30	Pass
	Total	5755	1.17	<=30	Pass
	1	5795	-1.79	<=30	Pass
	2	5795	-2.19	<=30	Pass
	Total	5795	1.02	<=30	Pass
802.11ac (VHT80)	1	5775	-6.16	<=30	Pass
	2	5775	-6.59	<=30	Pass
	Total	5775	-3.36	<=30	Pass
Note1: Antenna Gain: Ant1: 1.94dBi; Ant2: 1.95dBi Note2: transmit signals are completely correlated, Directional gain= $10 \times \log[(10^{1.94}/20 + 10^{1.95}/20)^2/2] = 4.96$ dBi Note3: Test result contains duty factor($10 \times \log(1/\text{duty cycle})$)					

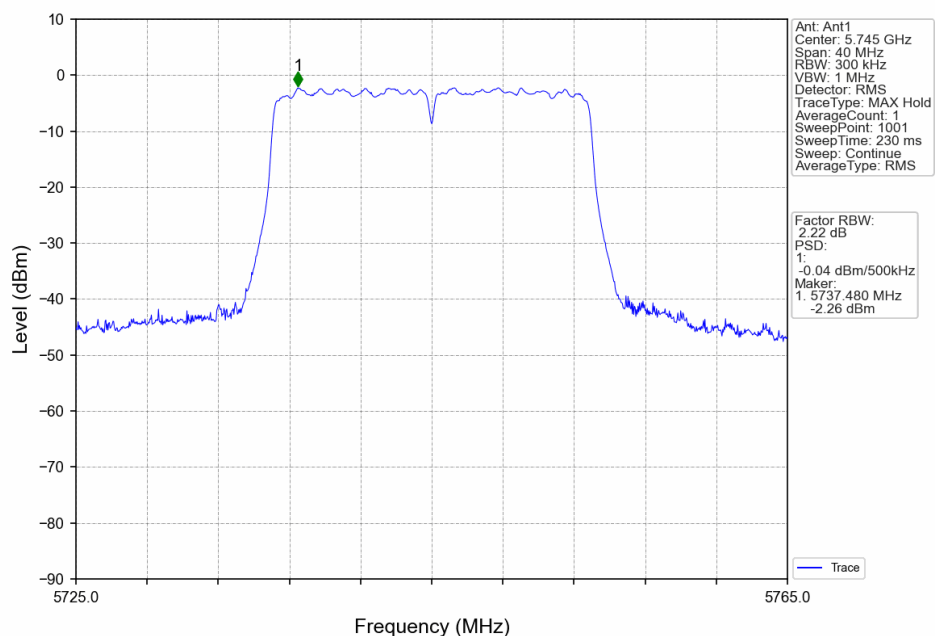
4.2 Test Graph



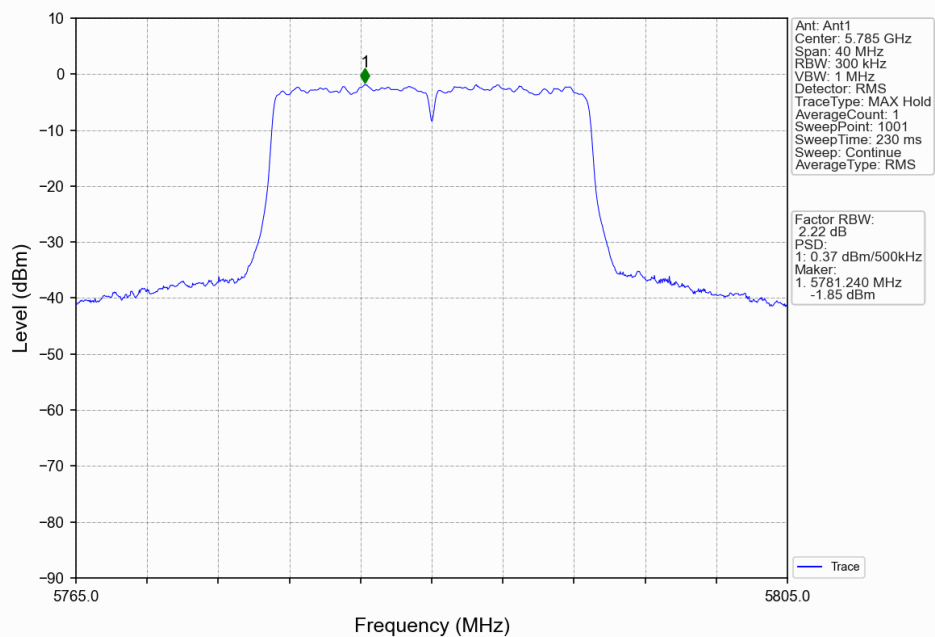
802.11a_HCH_5825MHz_Ant1_NTNV



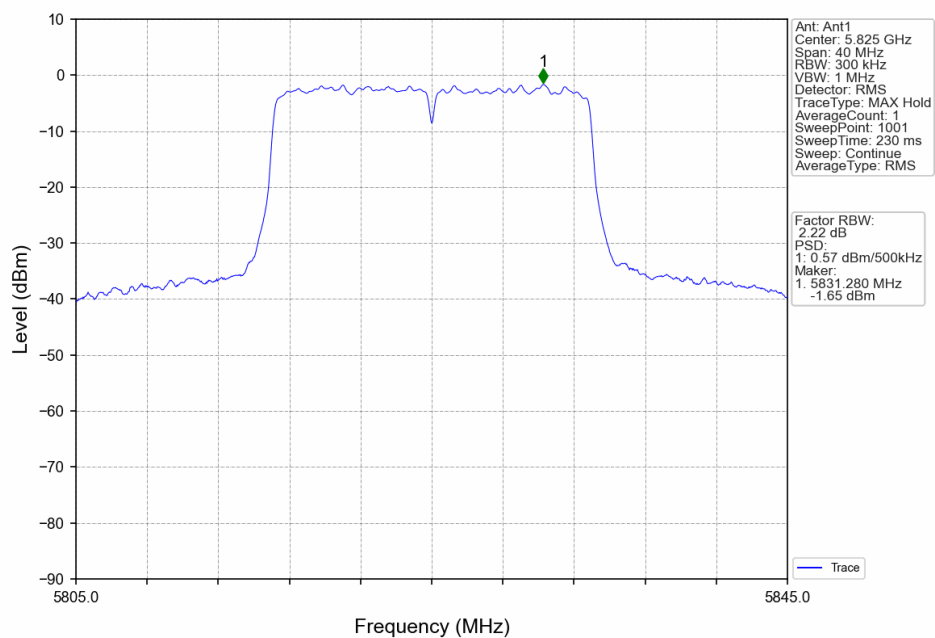
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



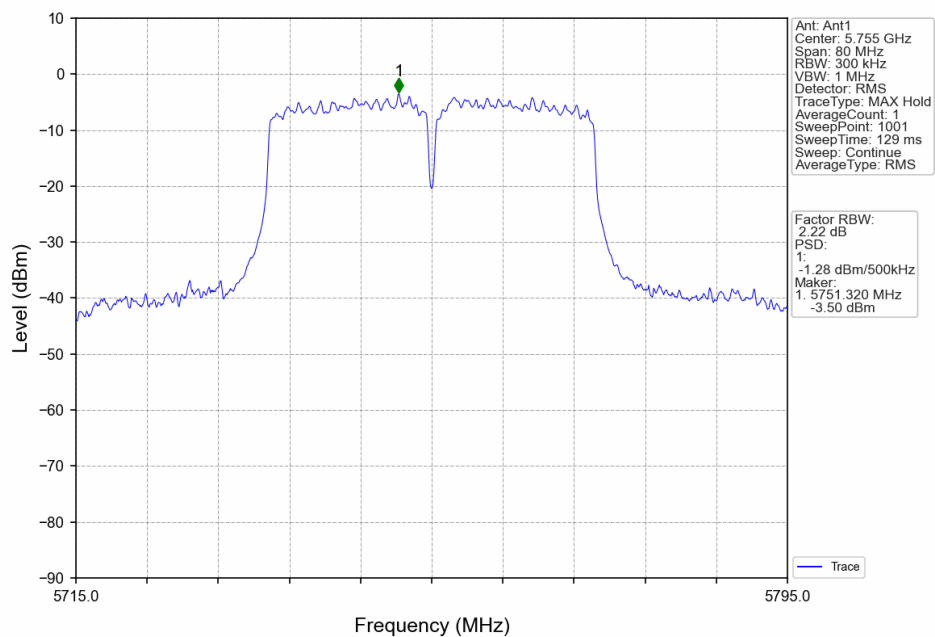
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



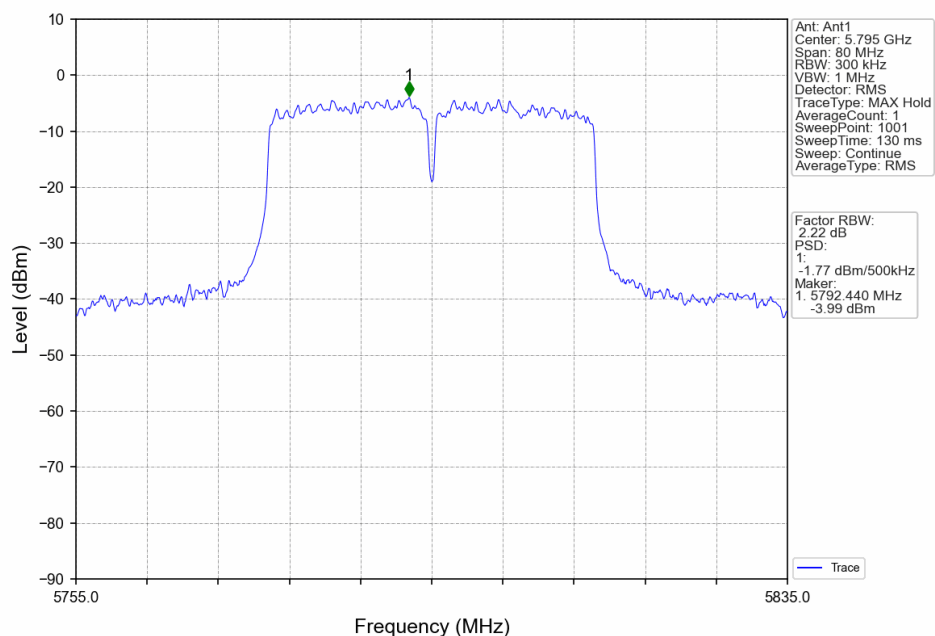
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



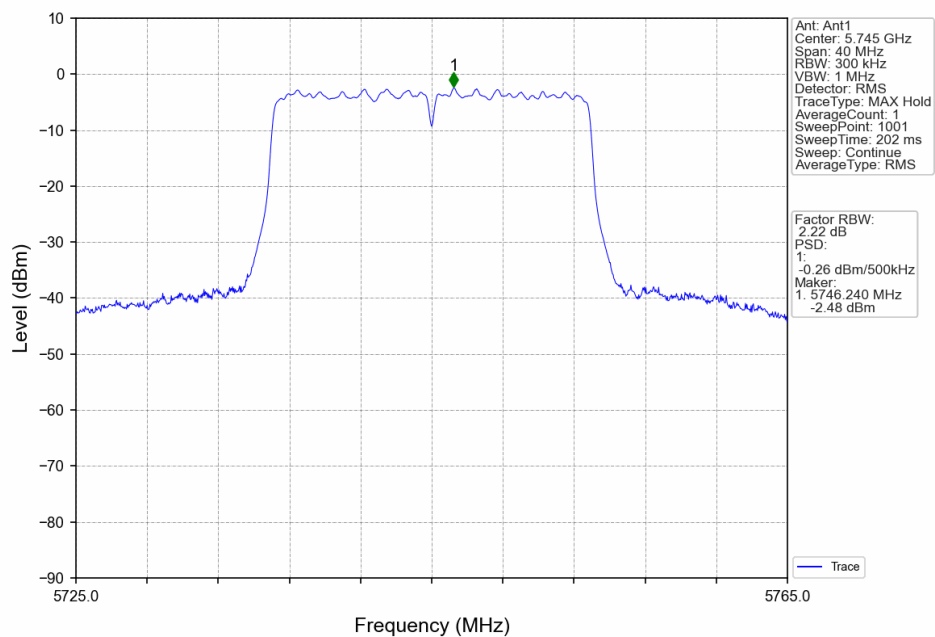
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



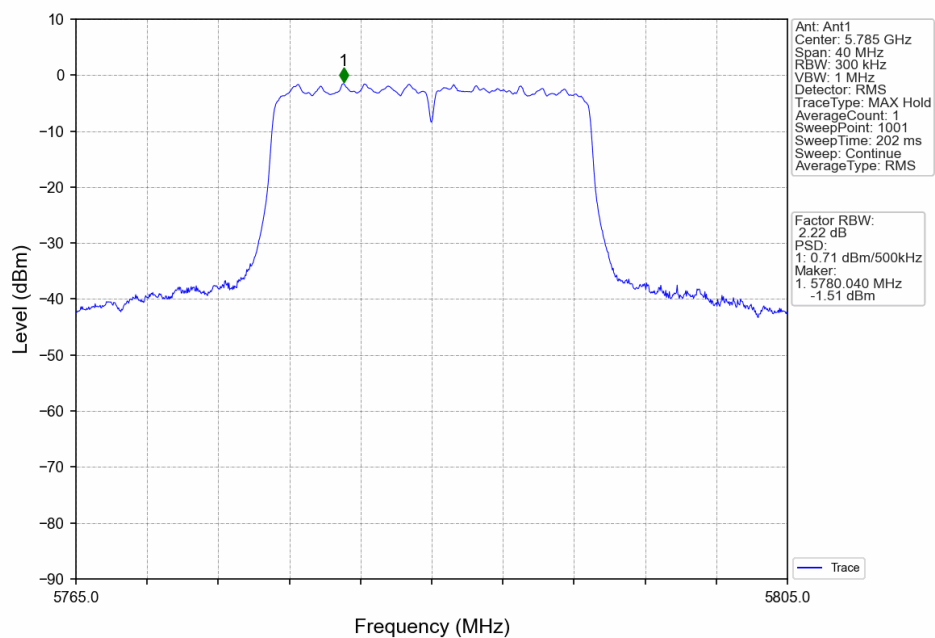
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



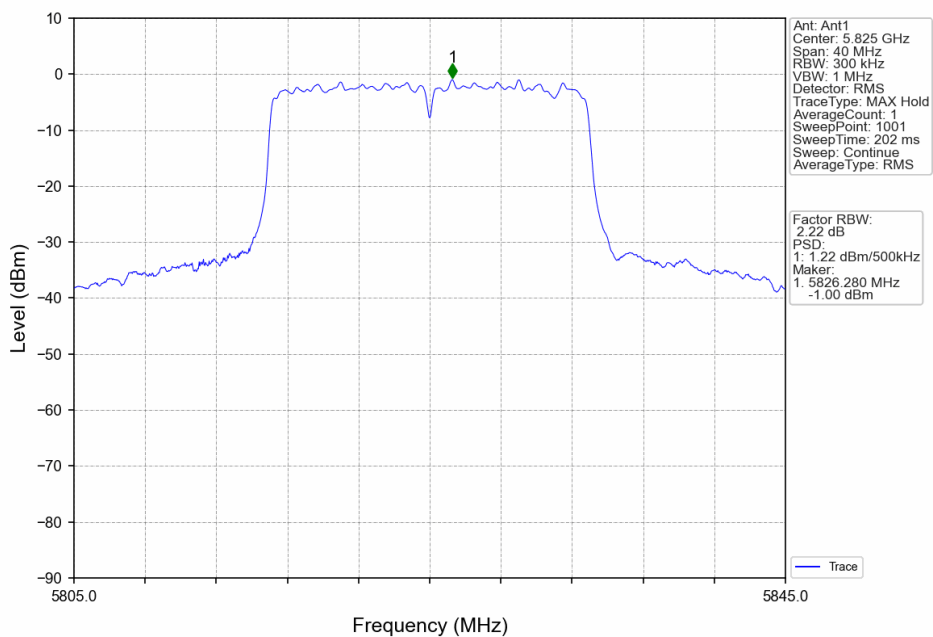
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



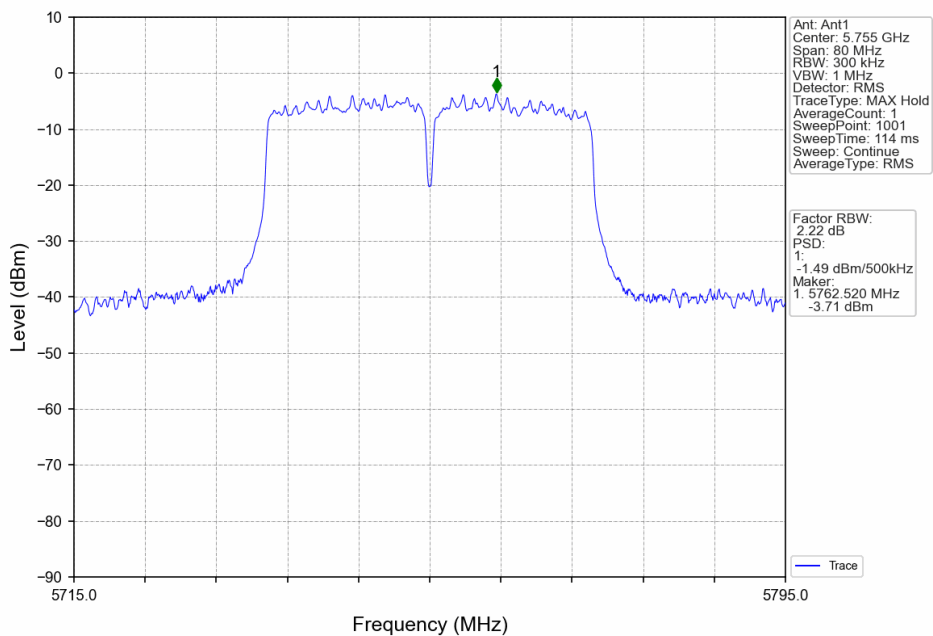
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



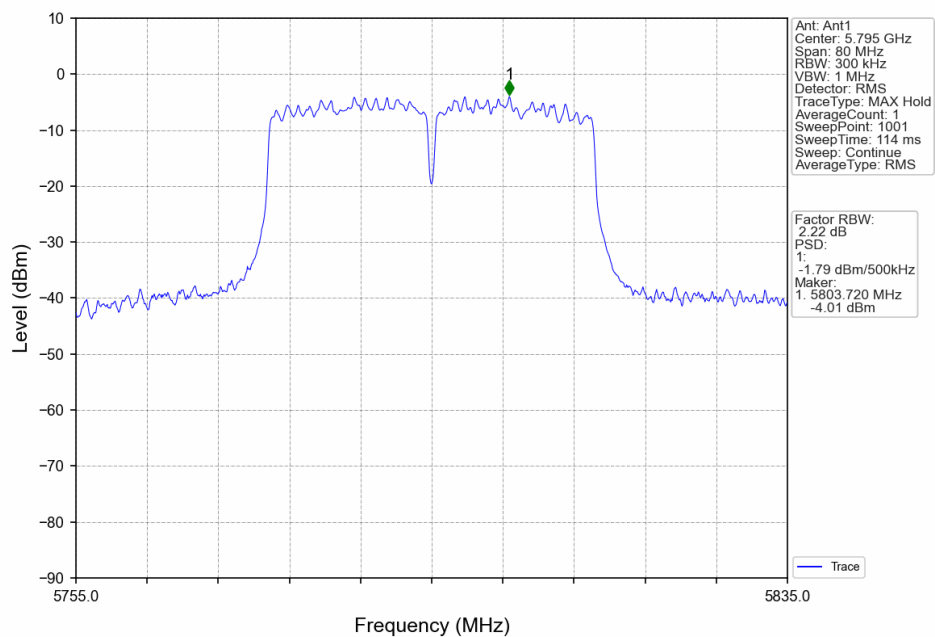
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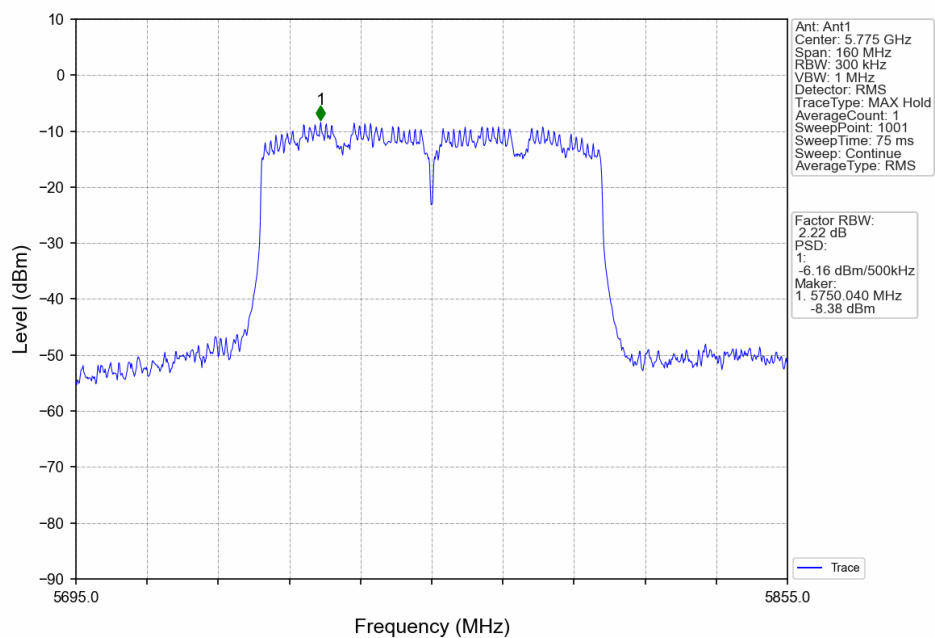
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



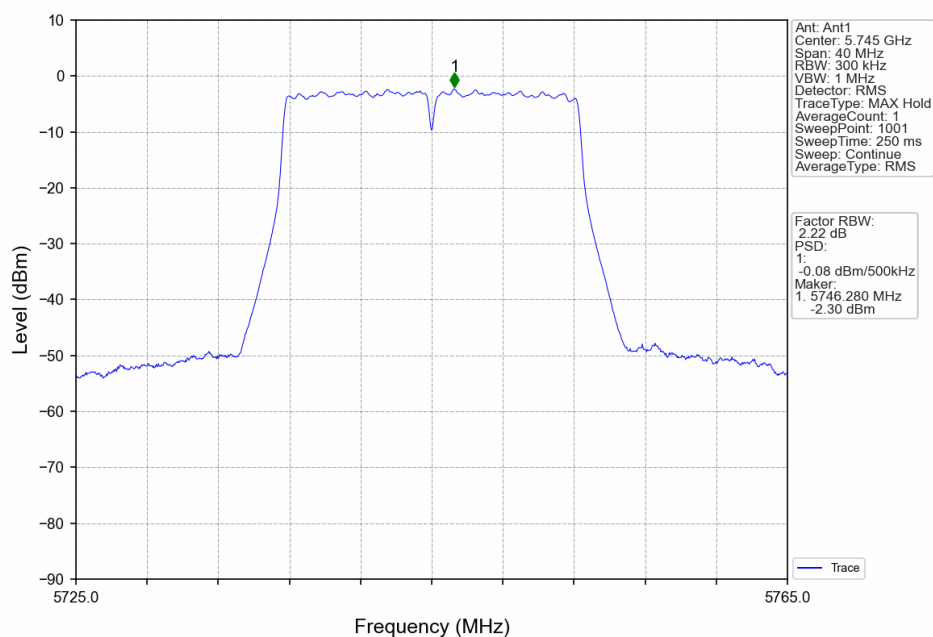
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



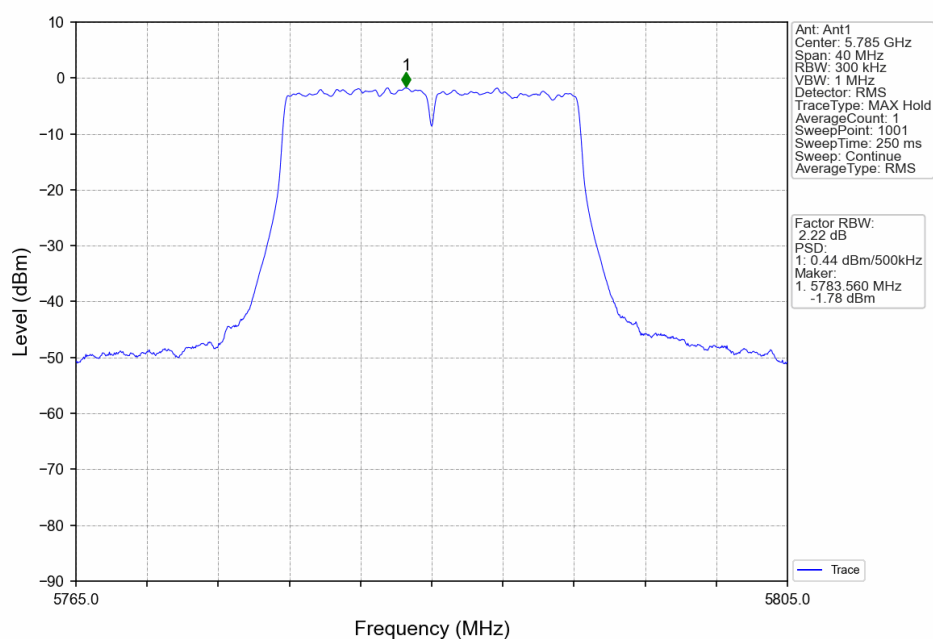
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



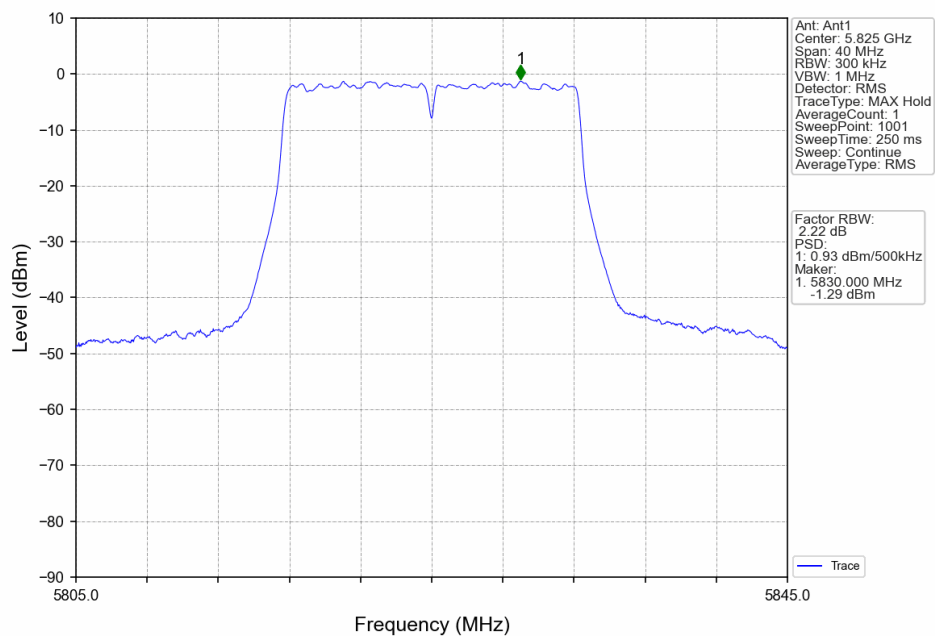
802.11a LCH_5745MHz_Ant2_NTNV



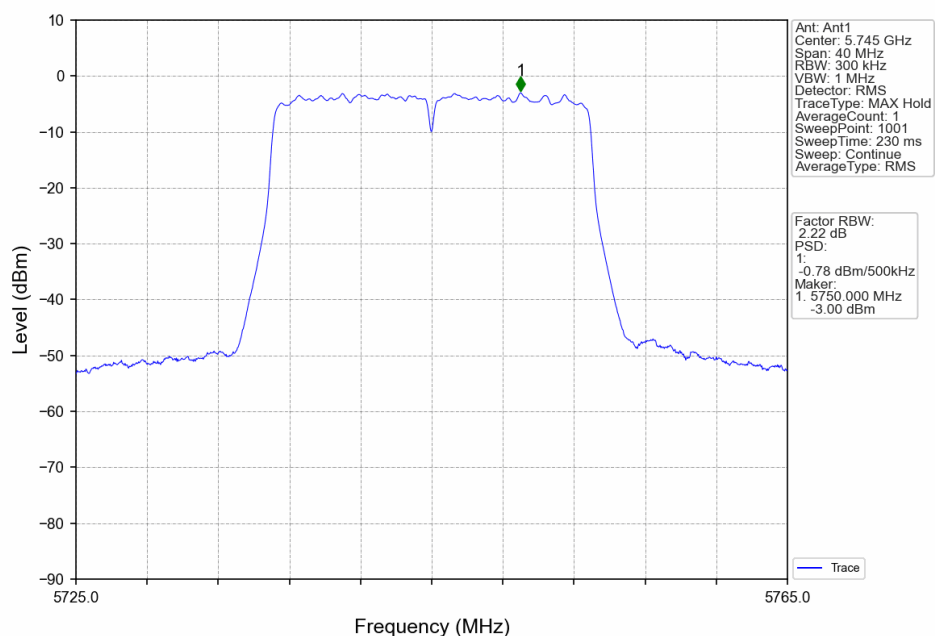
802.11a MCH_5785MHz_Ant2_NTNV



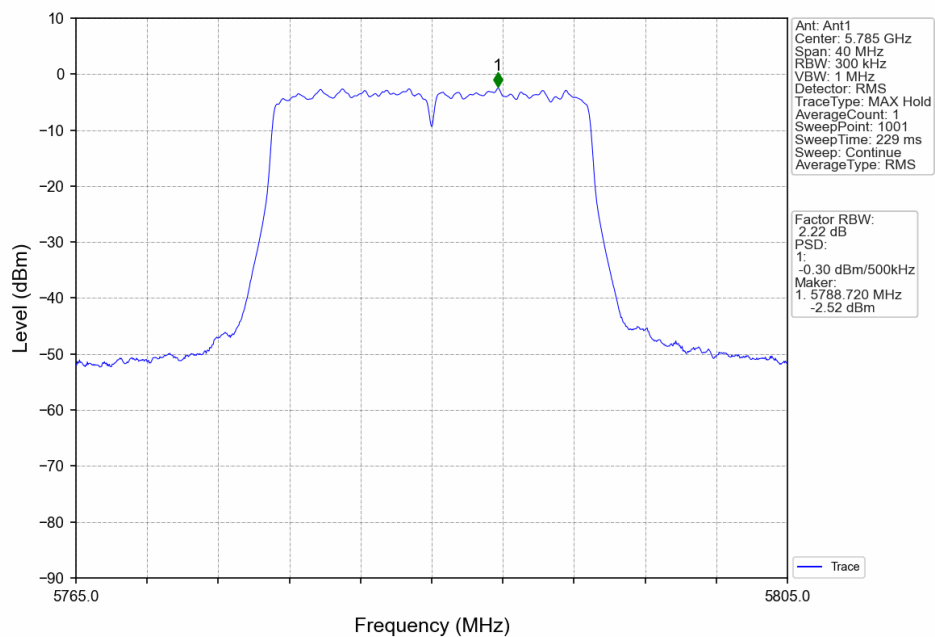
802.11a_HCH_5825MHz_Ant2_NTNV



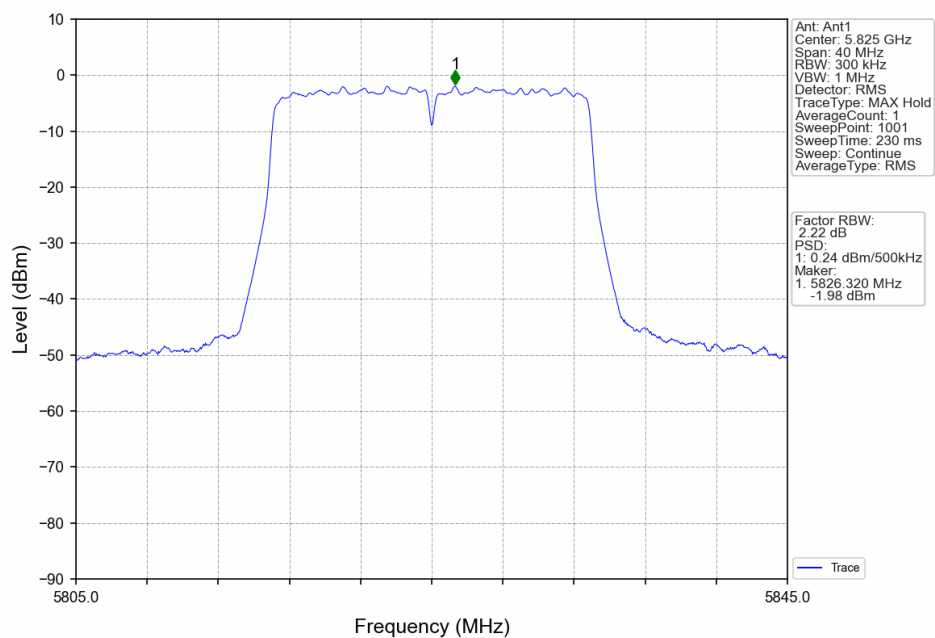
802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



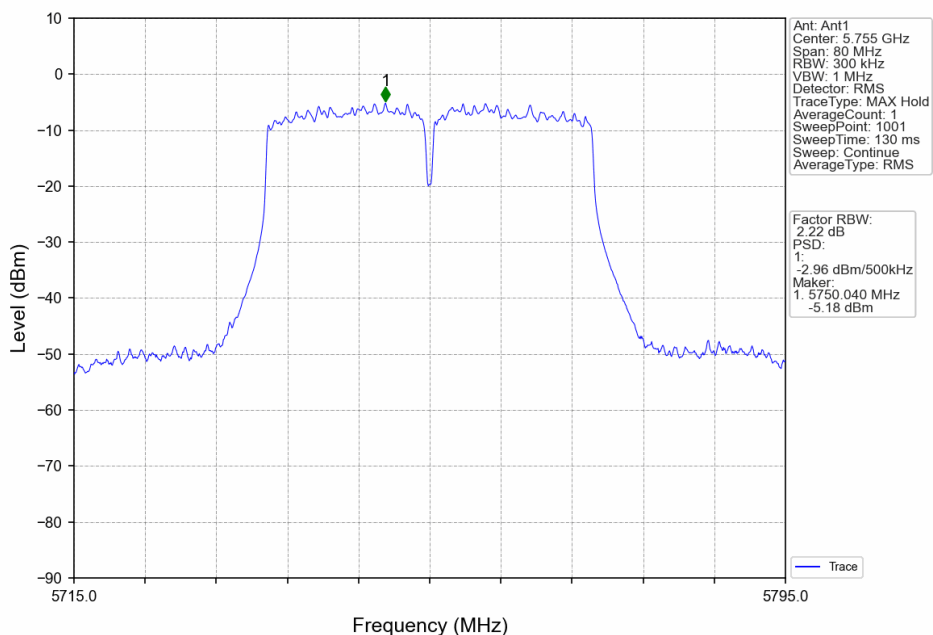
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



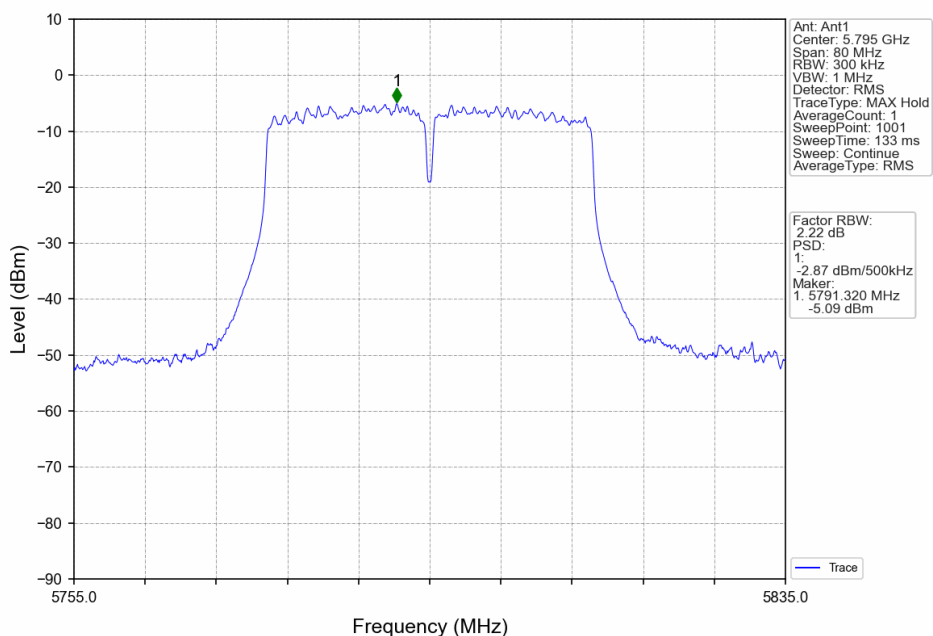
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



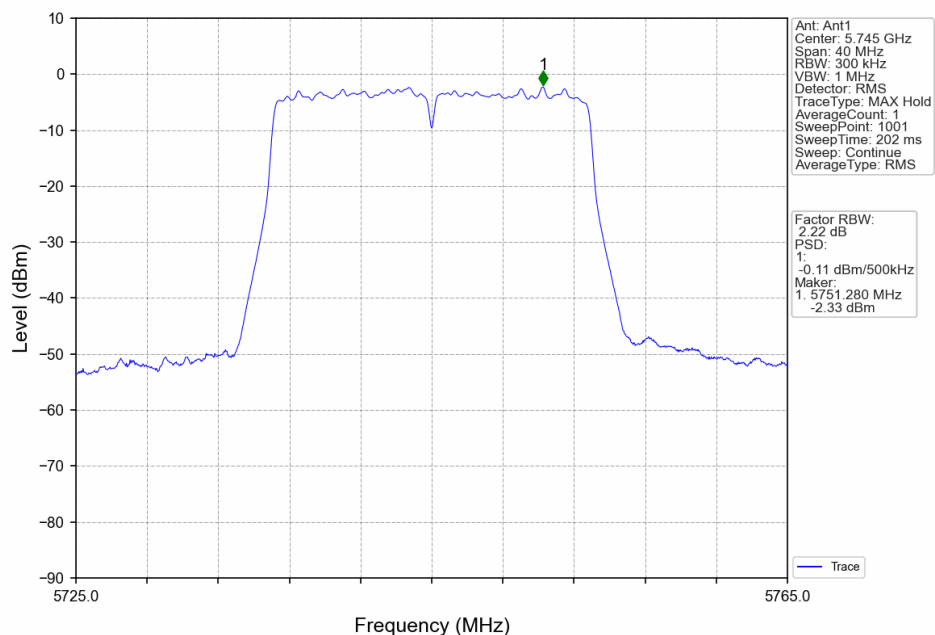
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



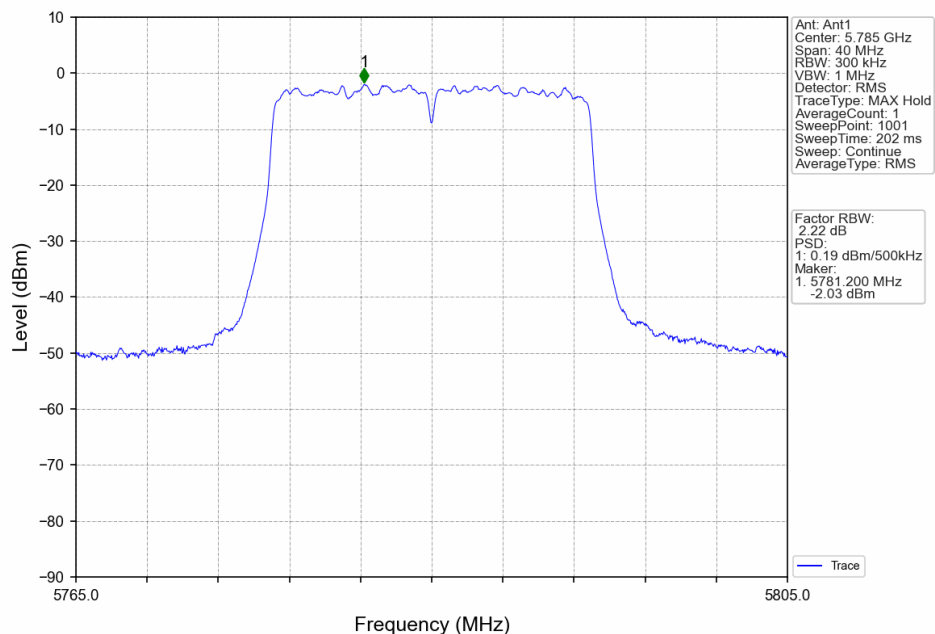
802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



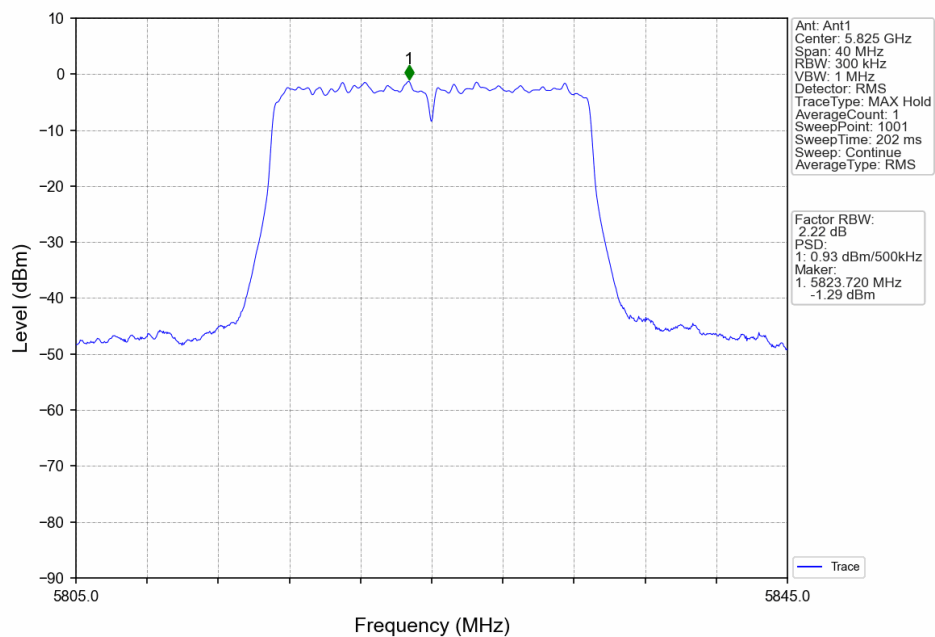
802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



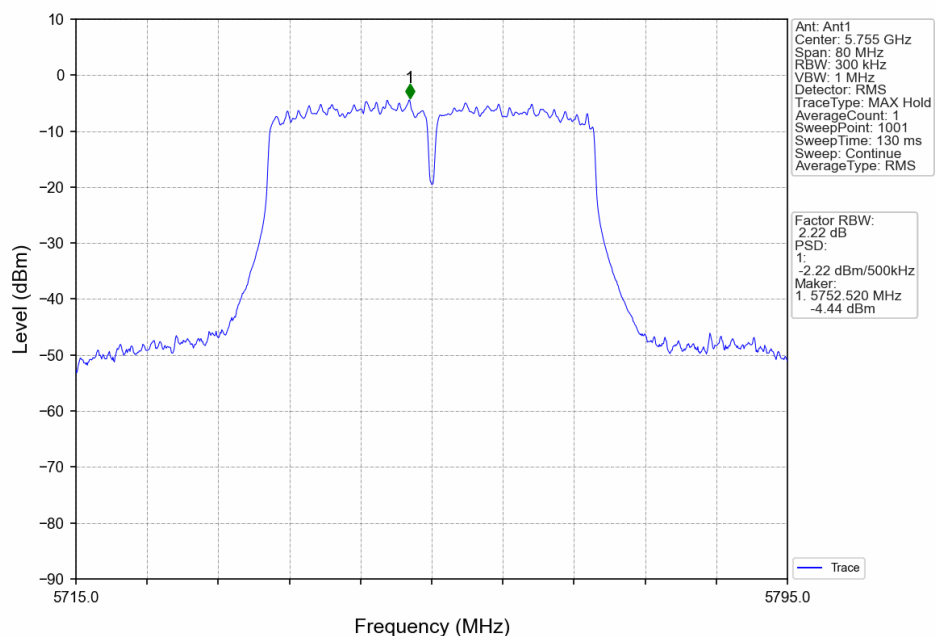
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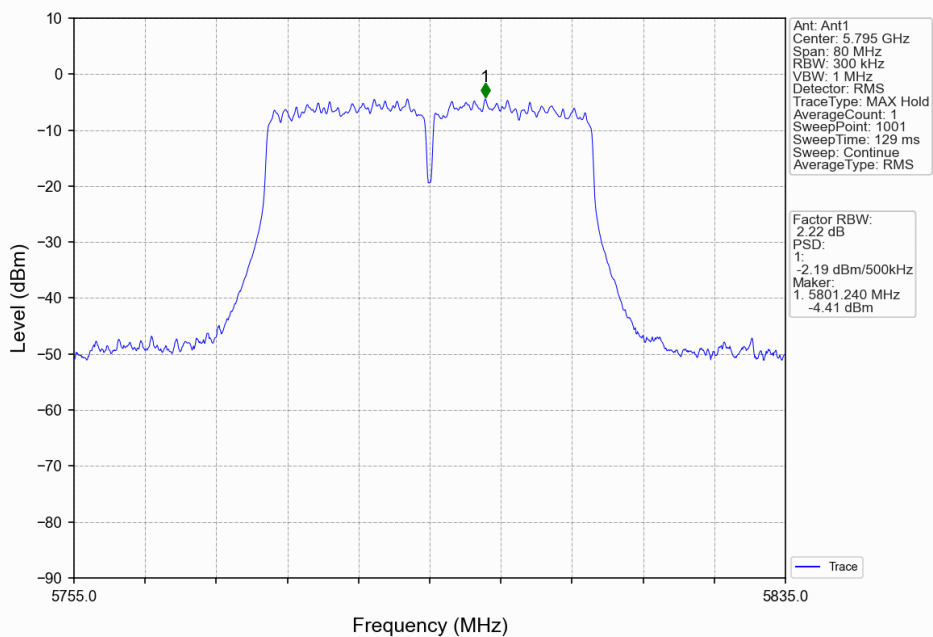
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



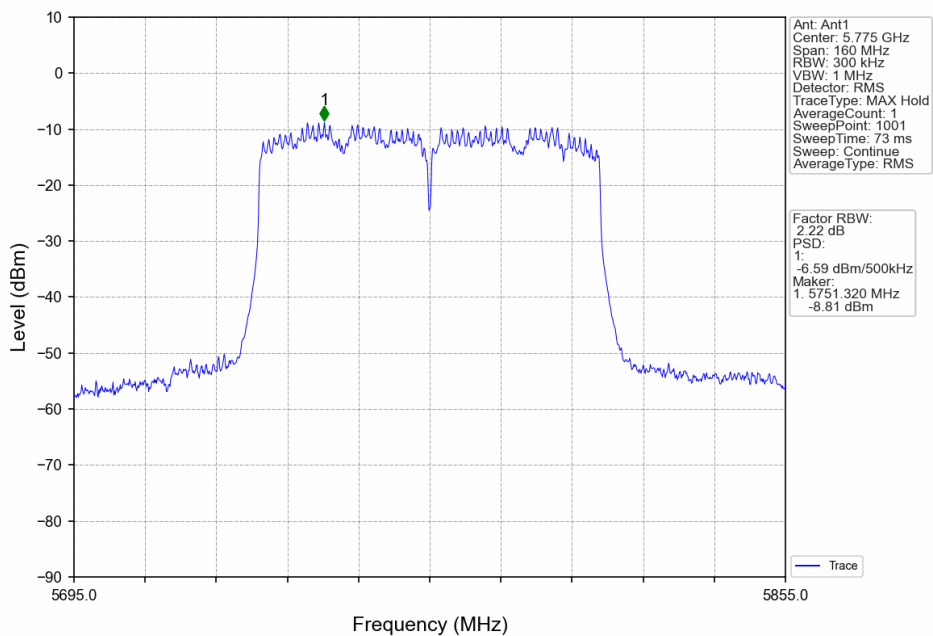
802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_NTNV



5. Frequency Stability

5.1 Test Result

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1			
				Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier	SISO	5745	20	102	5745.022	5725 to 5850	PASS
				120	5745.074	5725 to 5850	PASS
				138	5745.066	5725 to 5850	PASS
			-30	120	5745.083	5725 to 5850	PASS
			-20	120	5745.052	5725 to 5850	PASS
			-10	120	5745.047	5725 to 5850	PASS
			0	120	5745.042	5725 to 5850	PASS
			10	120	5745.007	5725 to 5850	PASS
			30	120	5745.067	5725 to 5850	PASS
			40	120	5745.085	5725 to 5850	PASS
			50	120	5745.071	5725 to 5850	PASS
		5785	20	102	5785.041	5725 to 5850	PASS
				120	5785.030	5725 to 5850	PASS
				138	5785.056	5725 to 5850	PASS
			-30	120	5785.003	5725 to 5850	PASS
			-20	120	5785.041	5725 to 5850	PASS
			-10	120	5785.035	5725 to 5850	PASS
			0	120	5785.008	5725 to 5850	PASS
			10	120	5785.028	5725 to 5850	PASS
			30	120	5785.057	5725 to 5850	PASS
			40	120	5785.022	5725 to 5850	PASS
			50	120	5785.031	5725 to 5850	PASS
		5825	20	102	5825.090	5725 to 5850	PASS
				120	5825.050	5725 to 5850	PASS
				138	5825.032	5725 to 5850	PASS
			-30	120	5825.071	5725 to 5850	PASS
			-20	120	5825.022	5725 to 5850	PASS
			-10	120	5825.051	5725 to 5850	PASS
			0	120	5825.022	5725 to 5850	PASS
			10	120	5825.012	5725 to 5850	PASS
			30	120	5825.068	5725 to 5850	PASS
			40	120	5825.045	5725 to 5850	PASS
			50	120	5825.081	5725 to 5850	PASS
		5755	20	102	5755.048	5725 to 5850	PASS
				120	5755.073	5725 to 5850	PASS
				138	5755.059	5725 to 5850	PASS
			-30	120	5755.054	5725 to 5850	PASS
			-20	120	5755.021	5725 to 5850	PASS
			-10	120	5755.058	5725 to 5850	PASS
			0	120	5755.004	5725 to 5850	PASS
			10	120	5755.062	5725 to 5850	PASS
			30	120	5755.052	5725 to 5850	PASS
			40	120	5755.063	5725 to 5850	PASS
			50	120	5755.016	5725 to 5850	PASS
		5795	20	102	5795.096	5725 to 5850	PASS

				120	5795.021	5725 to 5850	PASS
				138	5795.080	5725 to 5850	PASS
			-30	120	5795.039	5725 to 5850	PASS
			-20	120	5795.097	5725 to 5850	PASS
			-10	120	5795.003	5725 to 5850	PASS
			0	120	5795.003	5725 to 5850	PASS
			10	120	5795.070	5725 to 5850	PASS
			30	120	5795.048	5725 to 5850	PASS
			40	120	5795.074	5725 to 5850	PASS
			50	120	5795.019	5725 to 5850	PASS
		5775	20	102	5775.019	5725 to 5850	PASS
				120	5775.044	5725 to 5850	PASS
				138	5775.004	5725 to 5850	PASS
			-30	120	5775.021	5725 to 5850	PASS
			-20	120	5775.022	5725 to 5850	PASS
			-10	120	5775.098	5725 to 5850	PASS
			0	120	5775.041	5725 to 5850	PASS
			10	120	5775.038	5725 to 5850	PASS
			30	120	5775.062	5725 to 5850	PASS
			40	120	5775.013	5725 to 5850	PASS
			50	120	5775.012	5725 to 5850	PASS

-----End-----