

1. Duty Cycle

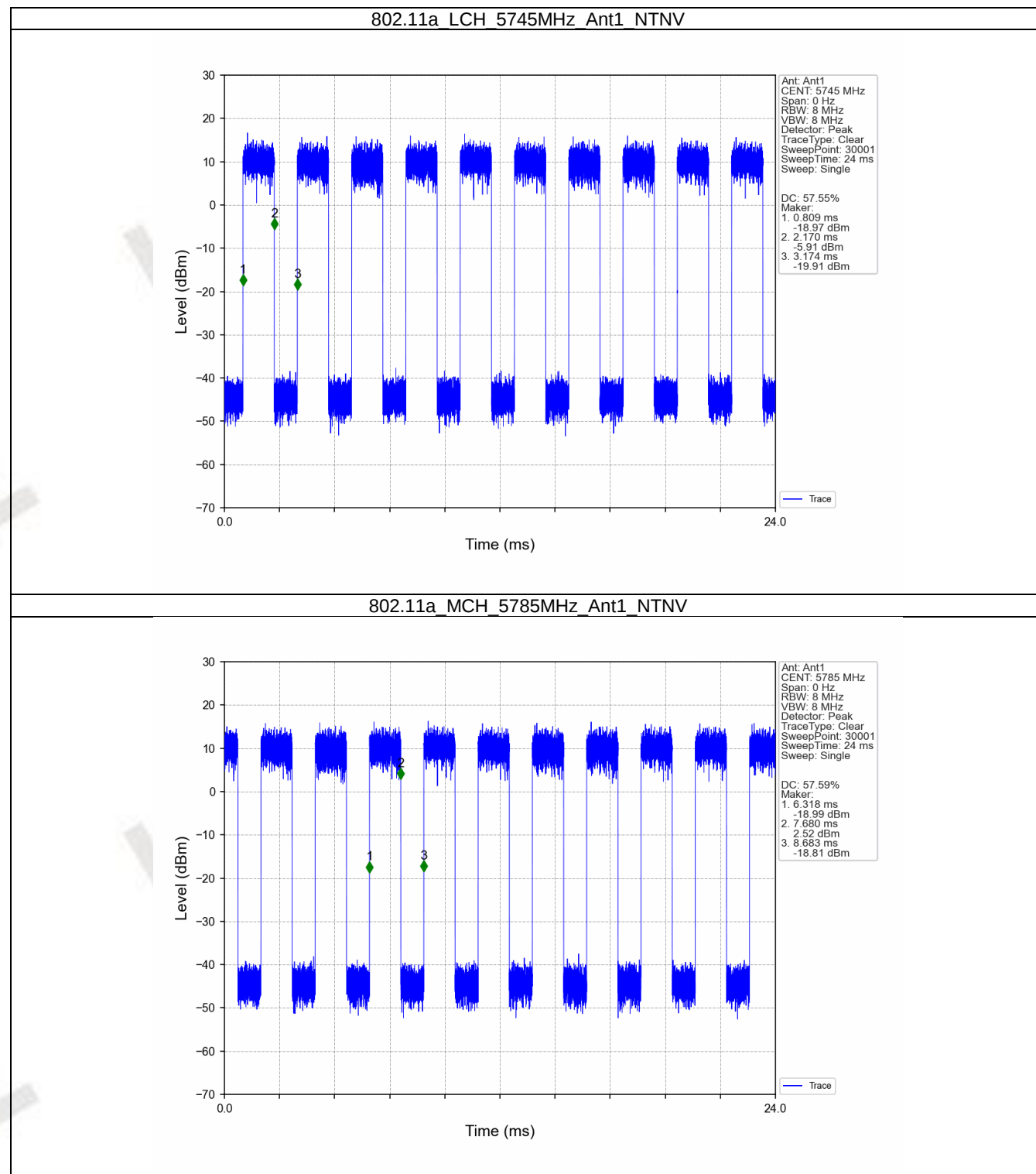
1.1 Test Result

1.1.1 Ant1

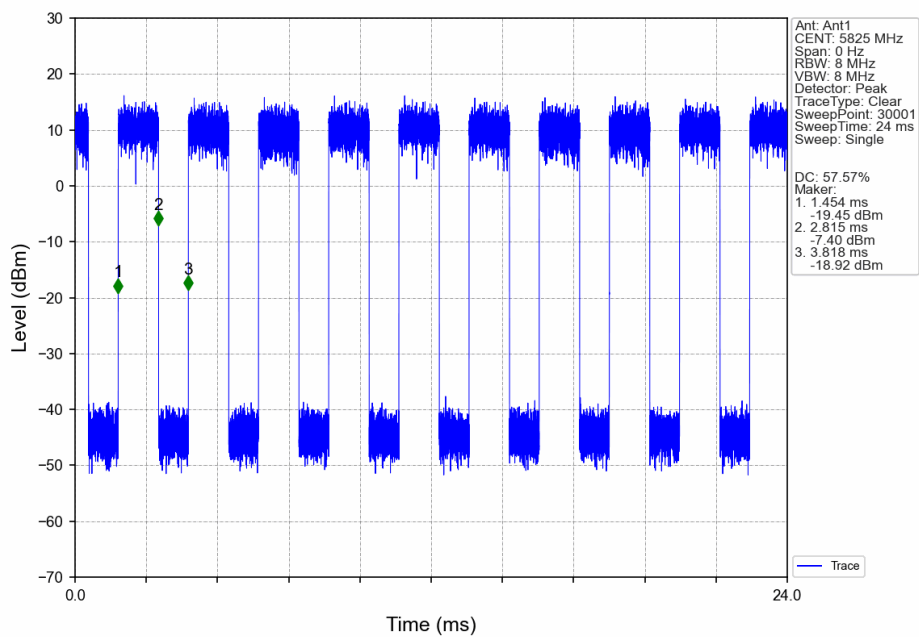
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	1.361	2.365	57.55	2.40	0.03
		5785	1.362	2.365	57.59	2.40	0.03
		5825	1.361	2.364	57.57	2.40	0.03
802.11n (HT20)	SISO	5745	1.274	2.277	55.95	2.52	0.04
		5785	1.274	2.277	55.95	2.52	0.04
		5825	1.274	2.277	55.95	2.52	0.04
802.11n (HT40)	SISO	5755	0.634	1.637	38.73	4.12	0.03
		5795	0.634	1.637	38.73	4.12	0.03
802.11ac (VHT20)	SISO	5745	1.277	2.280	56.01	2.52	0.02
		5785	1.278	2.281	56.03	2.52	0.04
		5825	1.278	2.281	56.03	2.52	0.04
802.11ac (VHT40)	SISO	5755	0.638	1.641	38.88	4.10	0.02
		5795	0.638	1.641	38.88	4.10	0.03

1.2 Test Graph

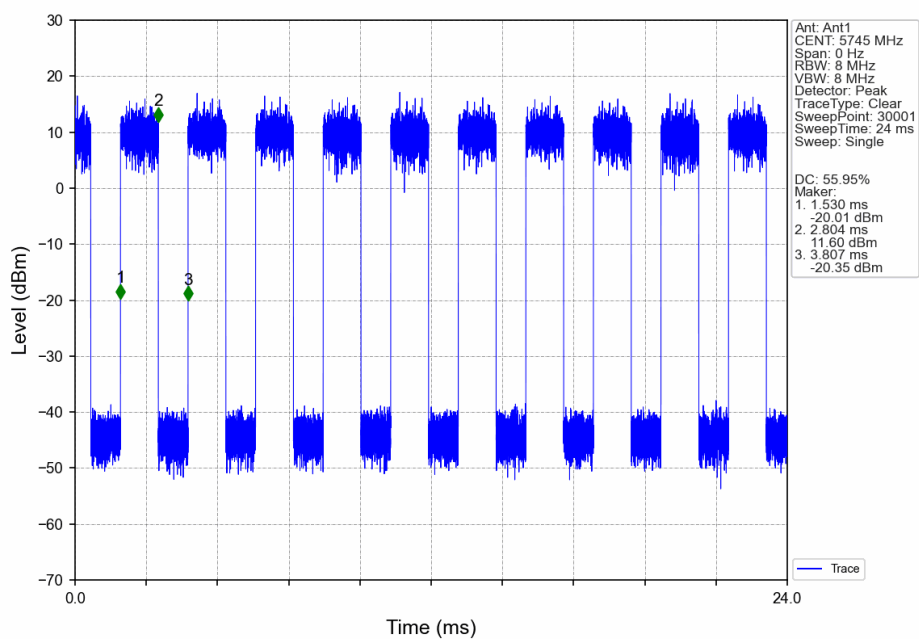
1.2.1 Ant1



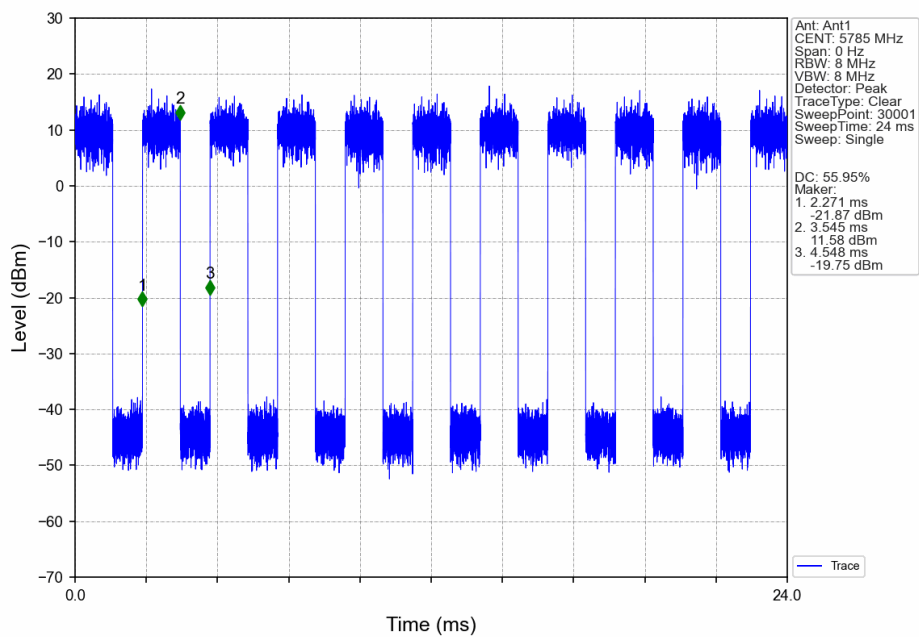
802.11a_HCH_5825MHz_Ant1_NTNV



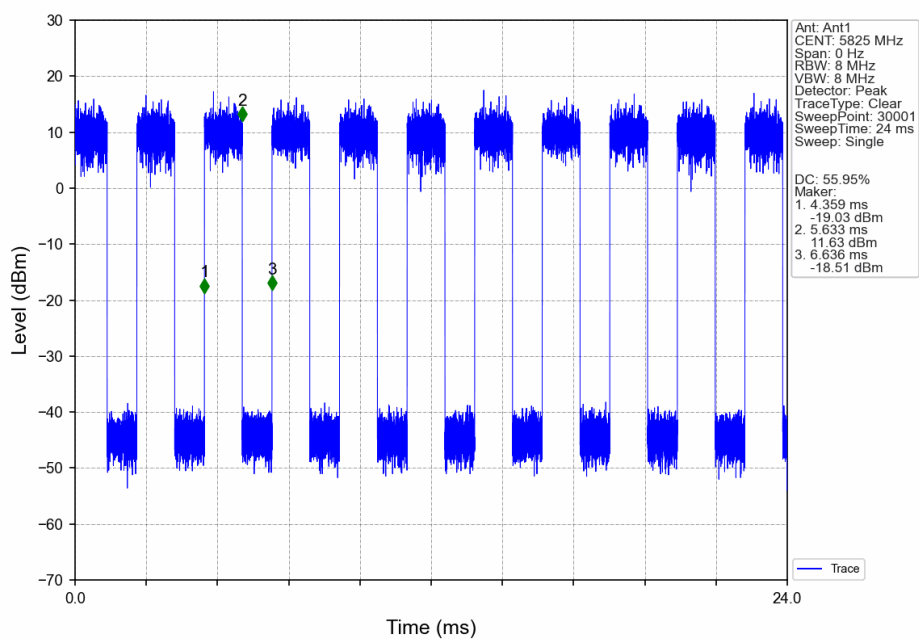
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



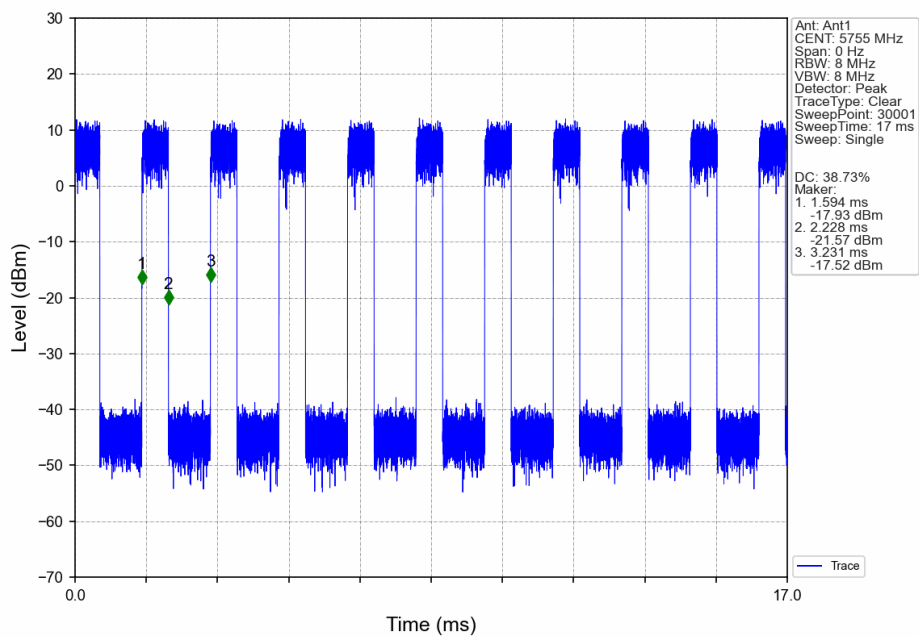
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



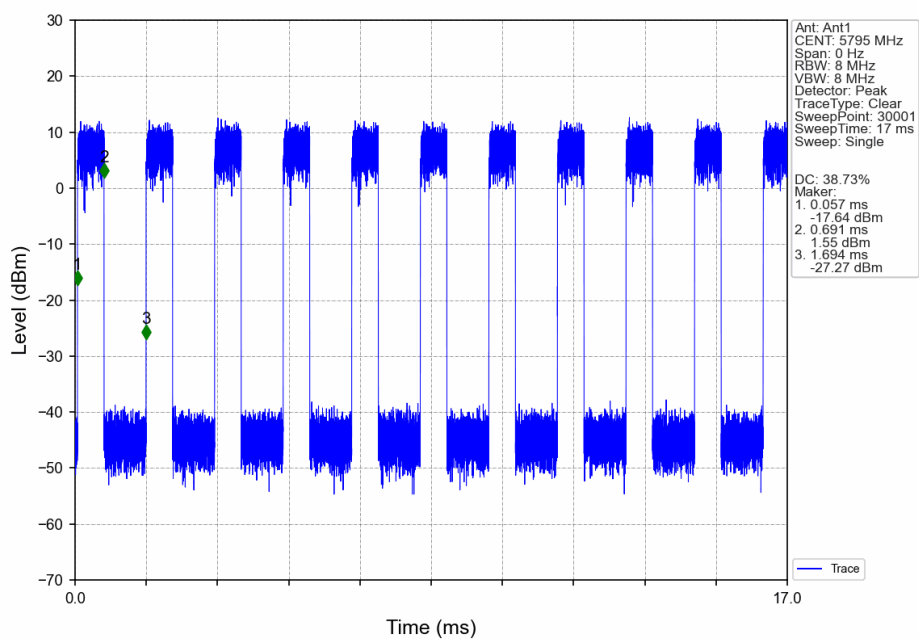
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



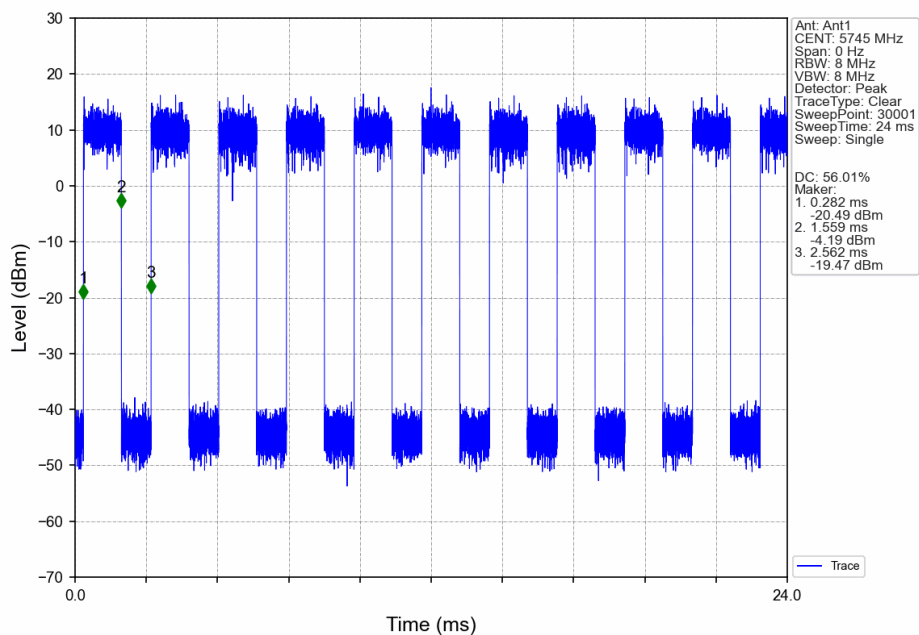
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



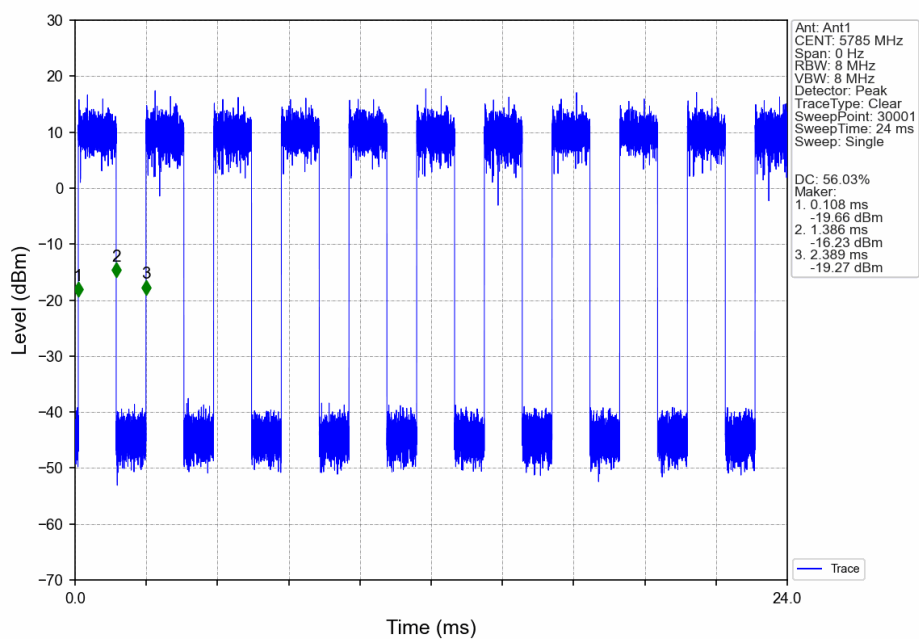
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



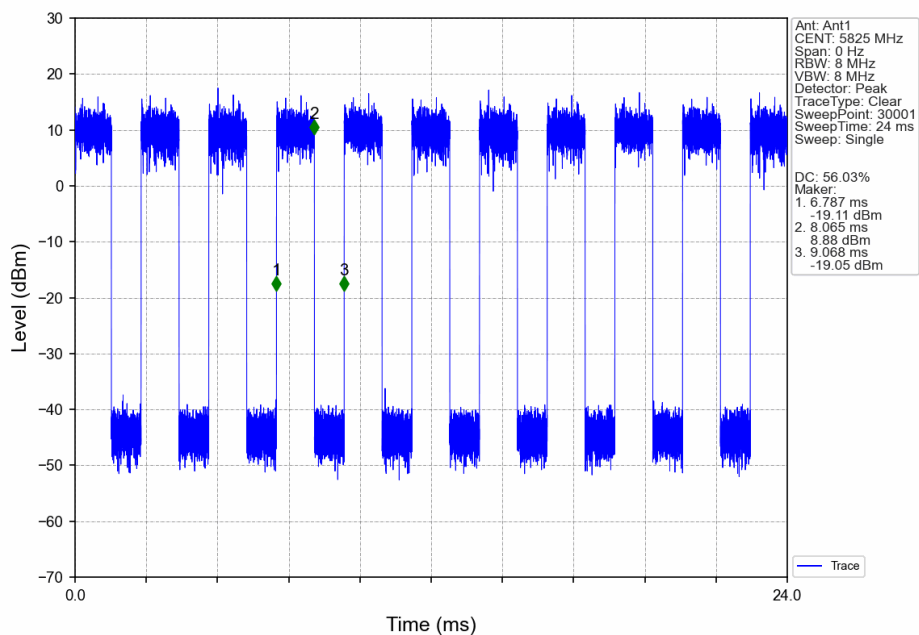
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



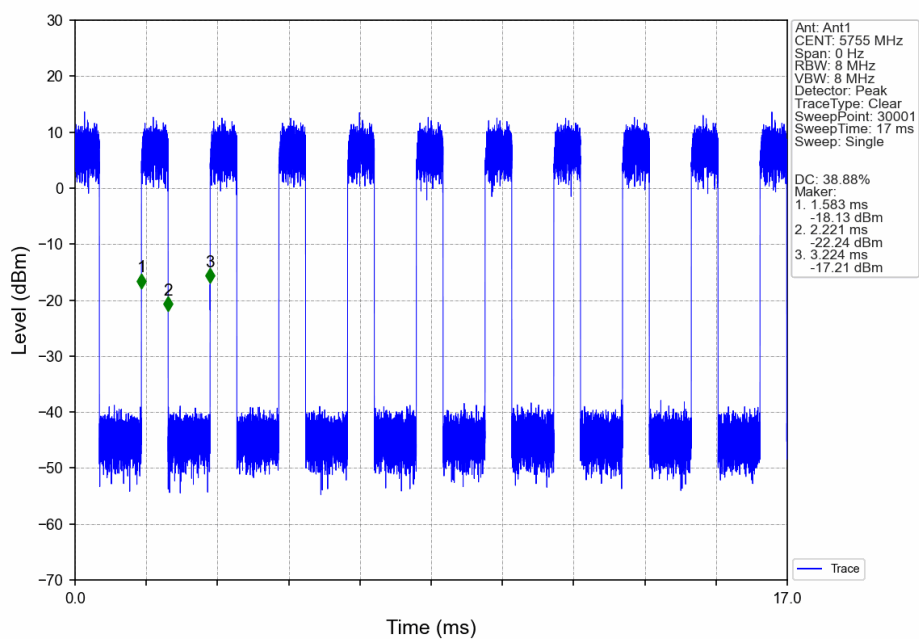
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

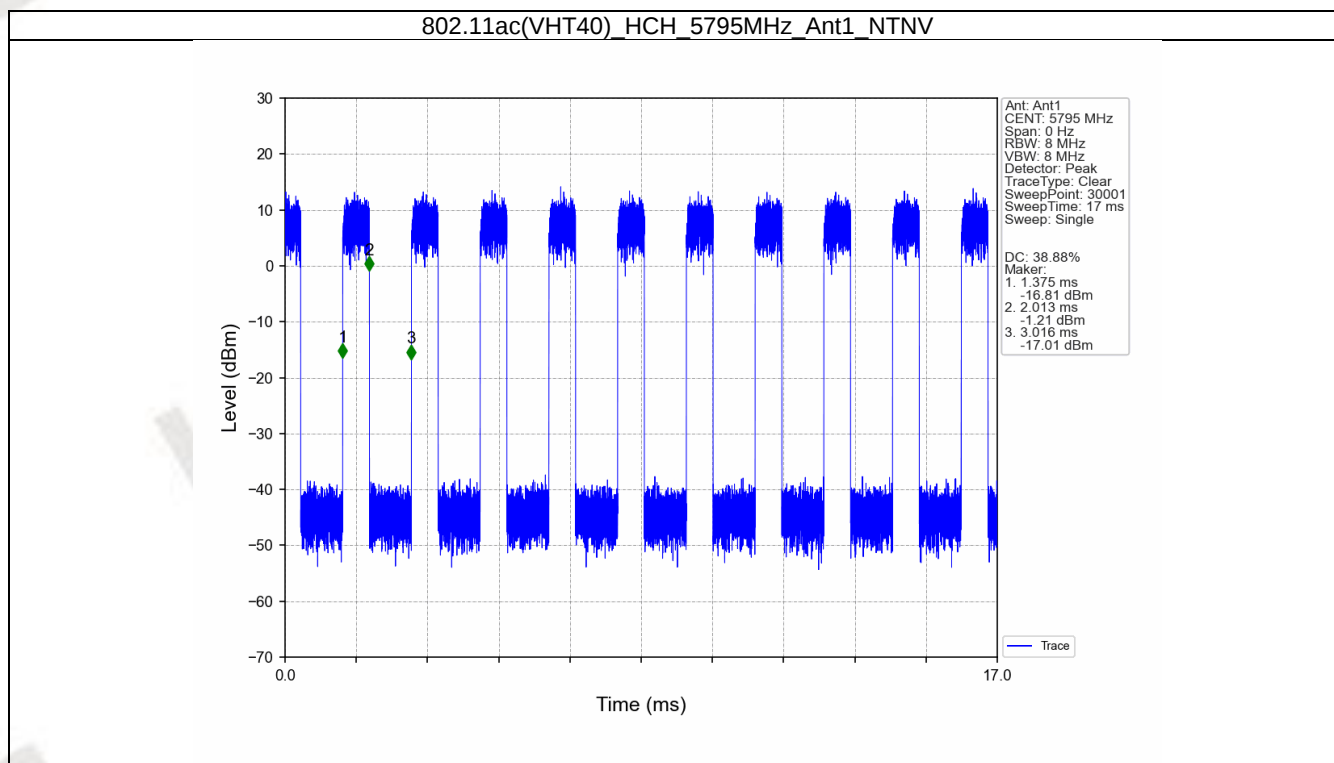


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

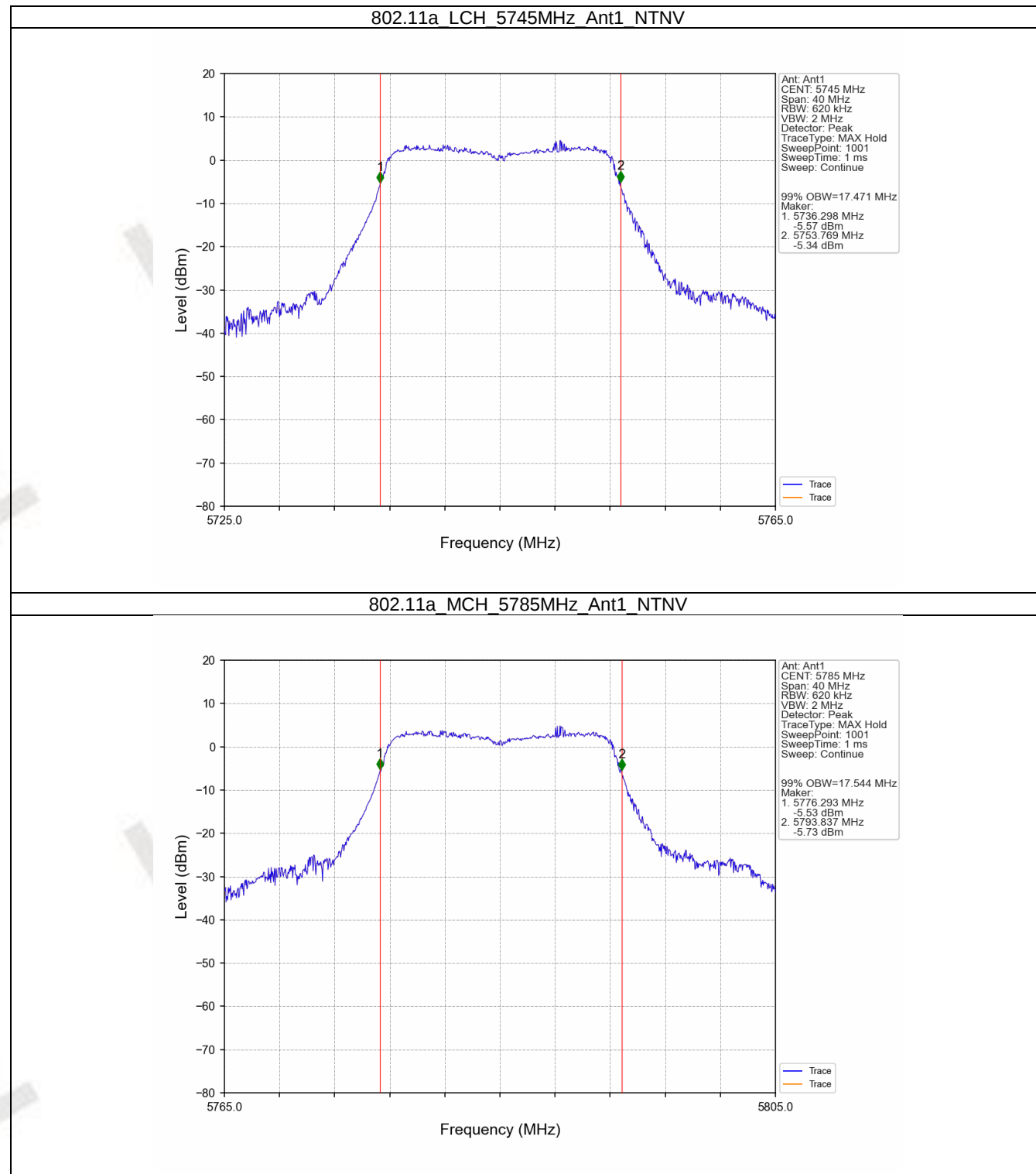
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.471	/	Pass
		5785	1	17.544	/	Pass
		5825	1	17.632	/	Pass
802.11n (HT20)	SISO	5745	1	18.341	/	Pass
		5785	1	18.435	/	Pass
		5825	1	18.536	/	Pass
802.11n (HT40)	SISO	5755	1	37.261	/	Pass
		5795	1	37.332	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.413	/	Pass
		5785	1	18.505	/	Pass
		5825	1	18.553	/	Pass
802.11ac (VHT40)	SISO	5755	1	37.271	/	Pass
		5795	1	37.195	/	Pass

2.1.2 6dB BW

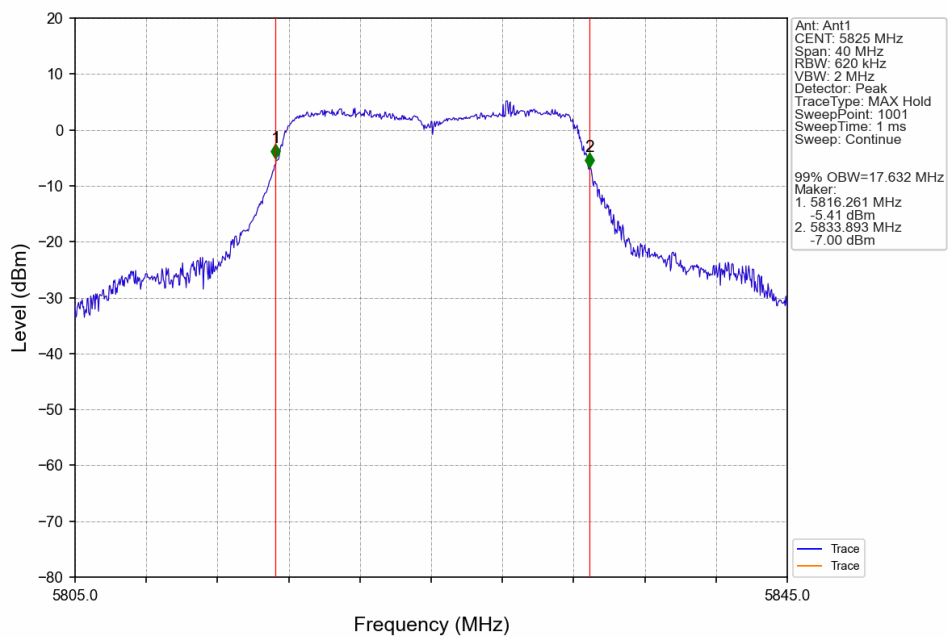
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.354	≥ 0.5	Pass
		5785	1	16.340	≥ 0.5	Pass
		5825	1	16.343	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	16.899	≥ 0.5	Pass
		5785	1	16.901	≥ 0.5	Pass
		5825	1	17.380	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.642	≥ 0.5	Pass
		5795	1	35.627	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.041	≥ 0.5	Pass
		5785	1	17.047	≥ 0.5	Pass
		5825	1	17.022	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.508	≥ 0.5	Pass
		5795	1	35.366	≥ 0.5	Pass

2.2 Test Graph

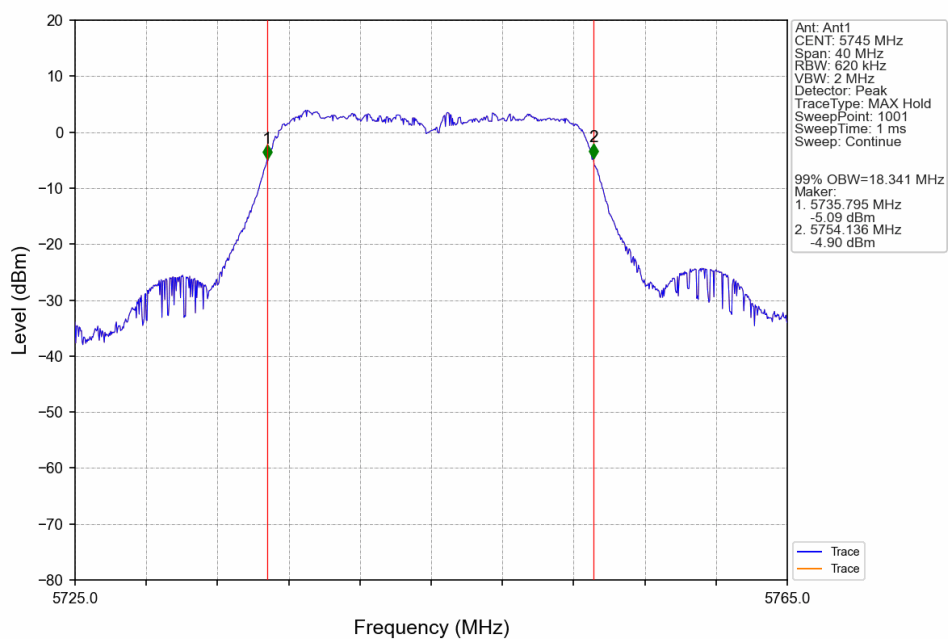
2.2.1 OBW



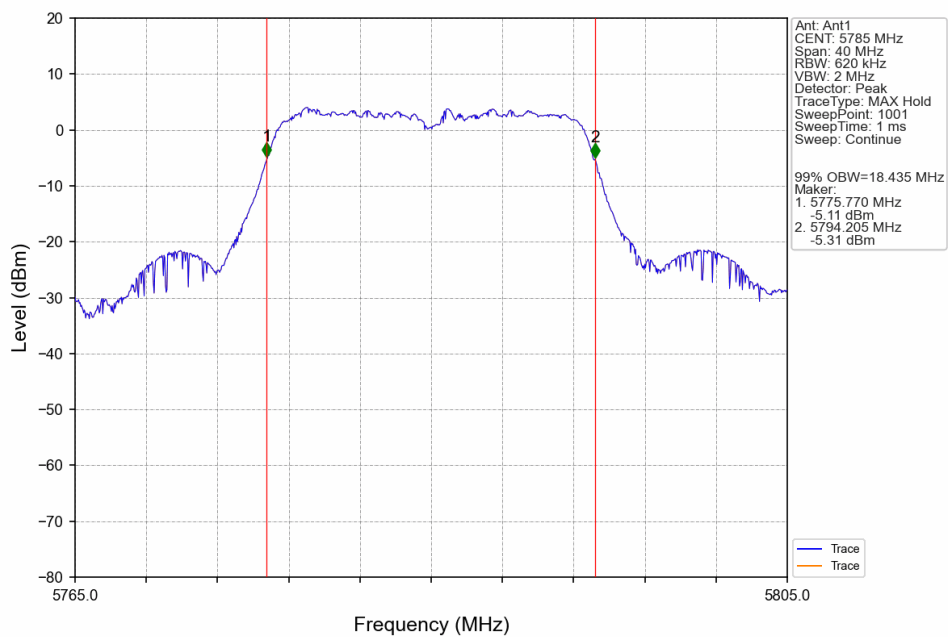
802.11a_HCH_5825MHz_Ant1_NTNV



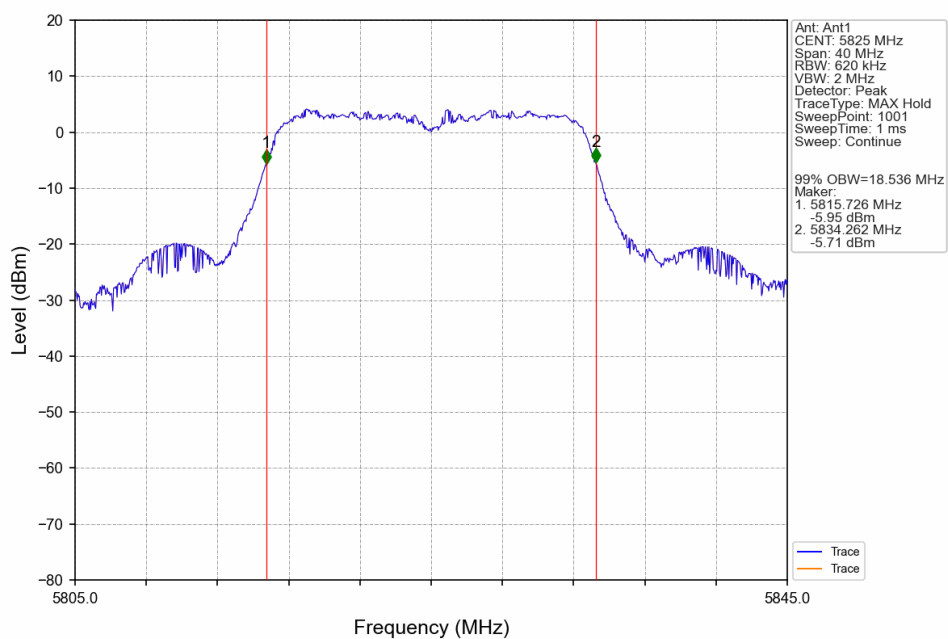
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



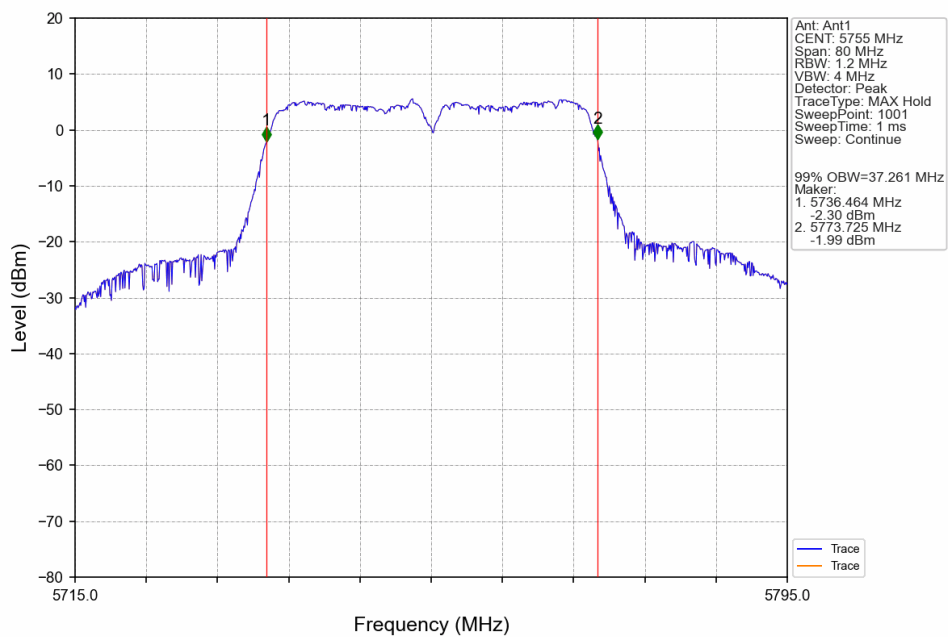
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



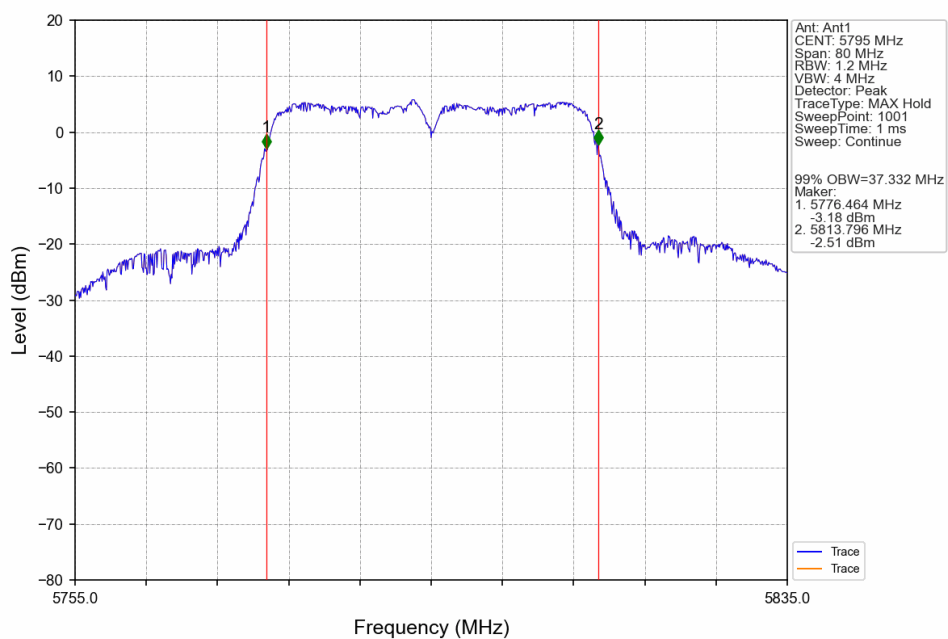
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



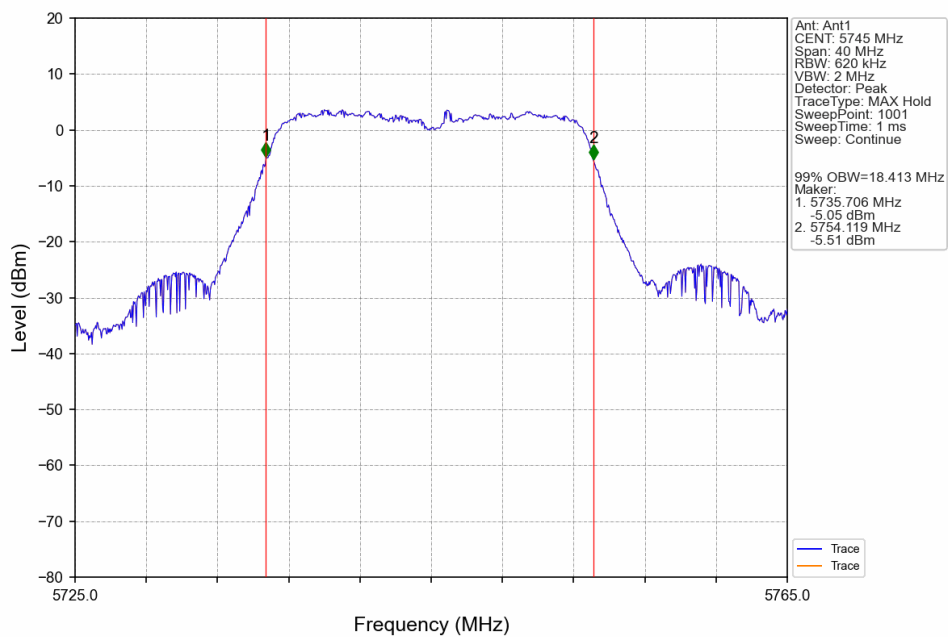
802.11n(HT40) LCH 5755MHz Ant1 NTN



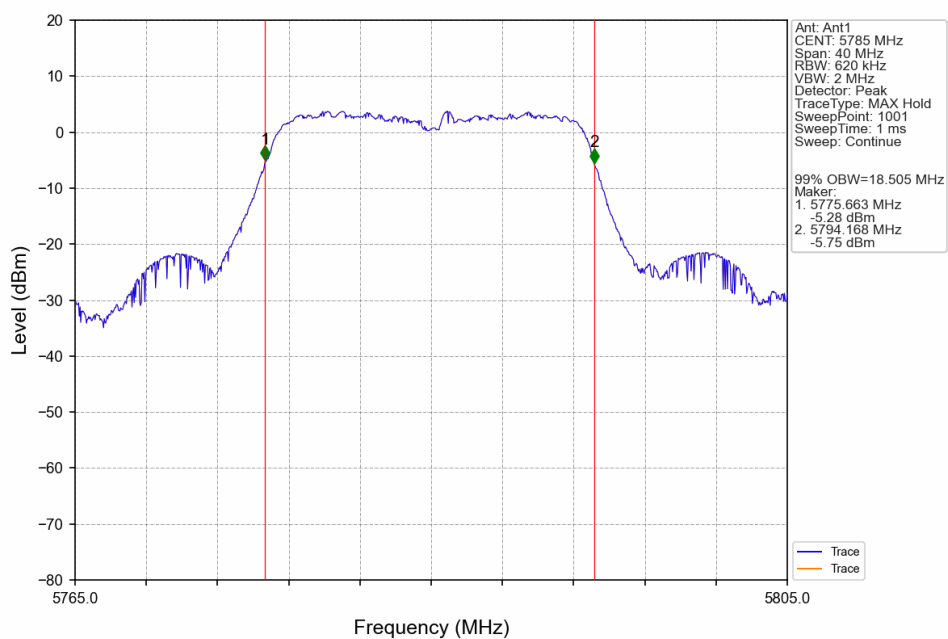
802.11n(HT40) HCH 5795MHz Ant1 NTN



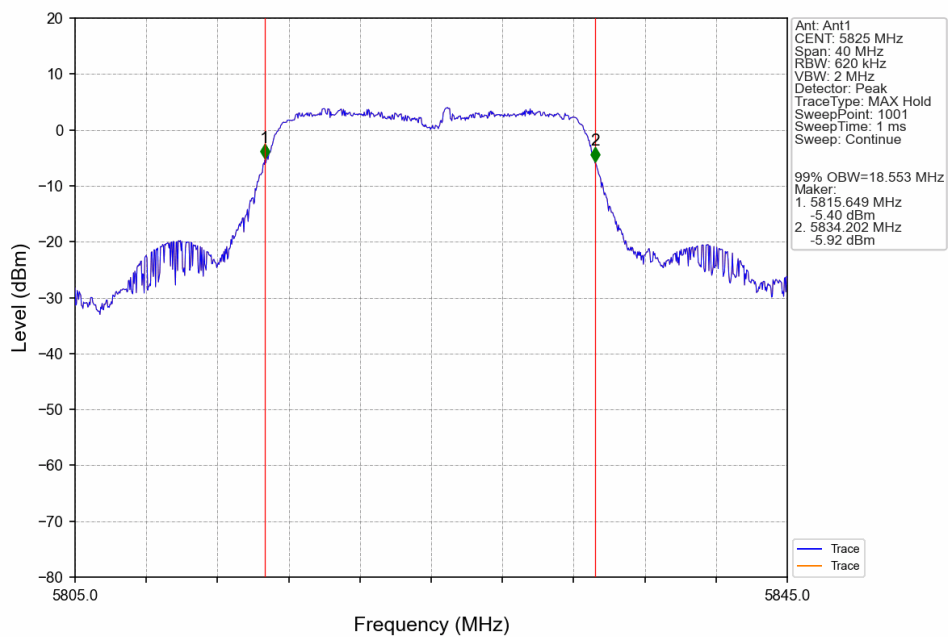
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



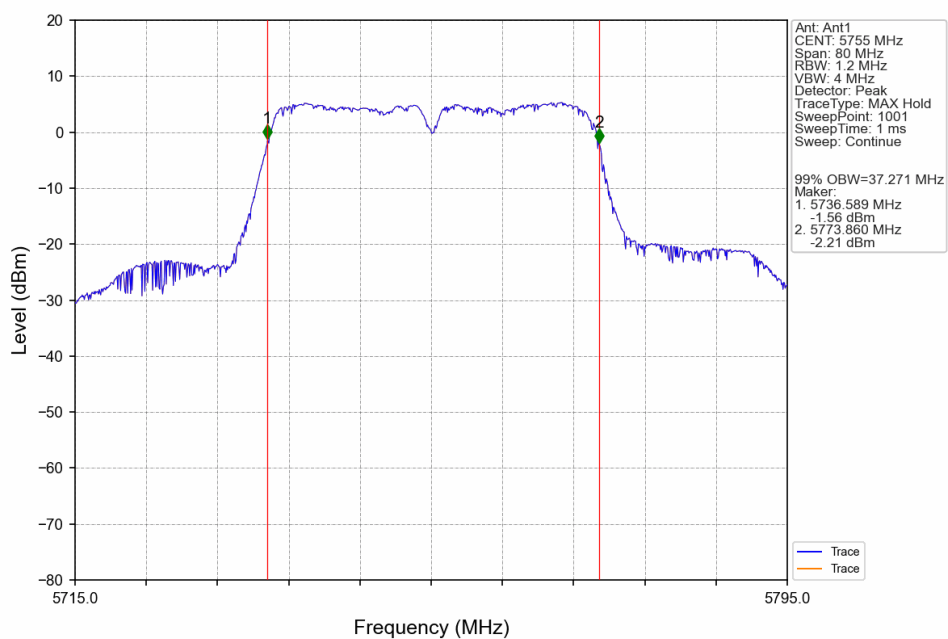
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

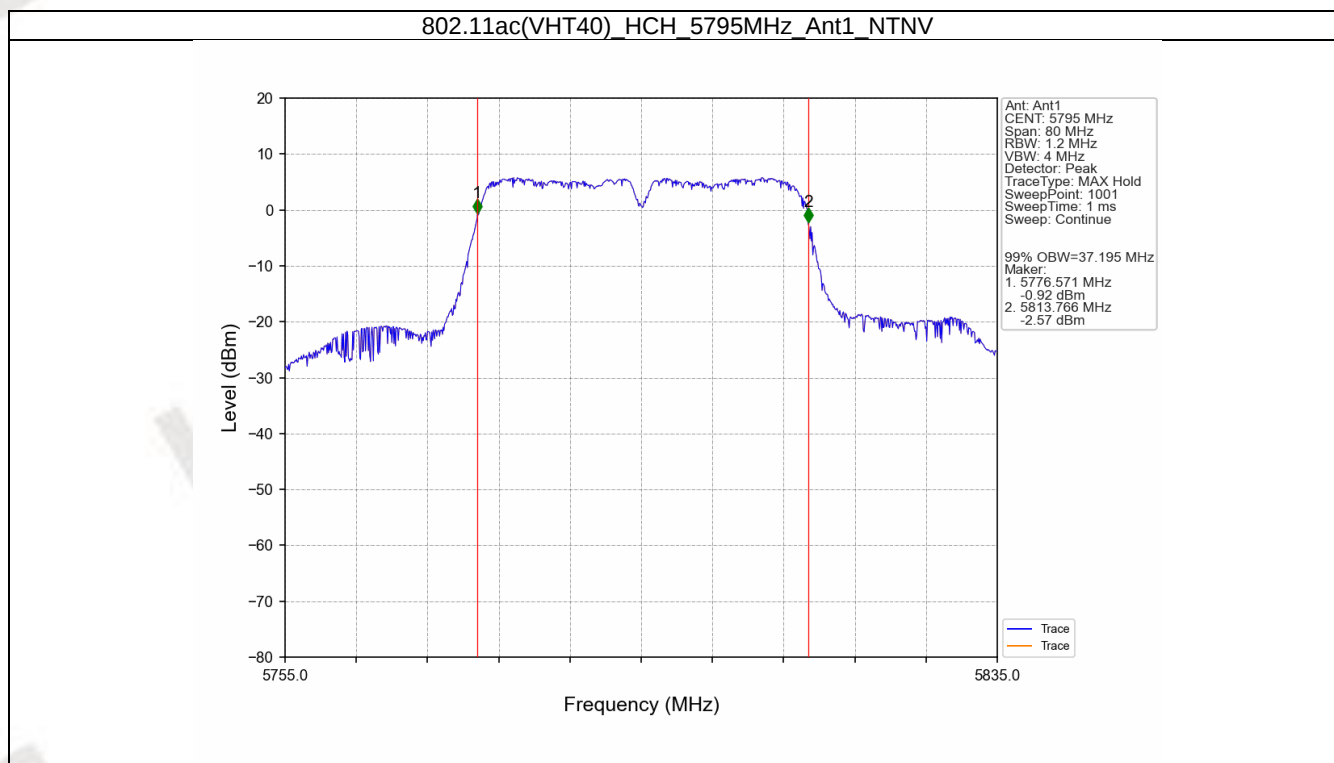


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

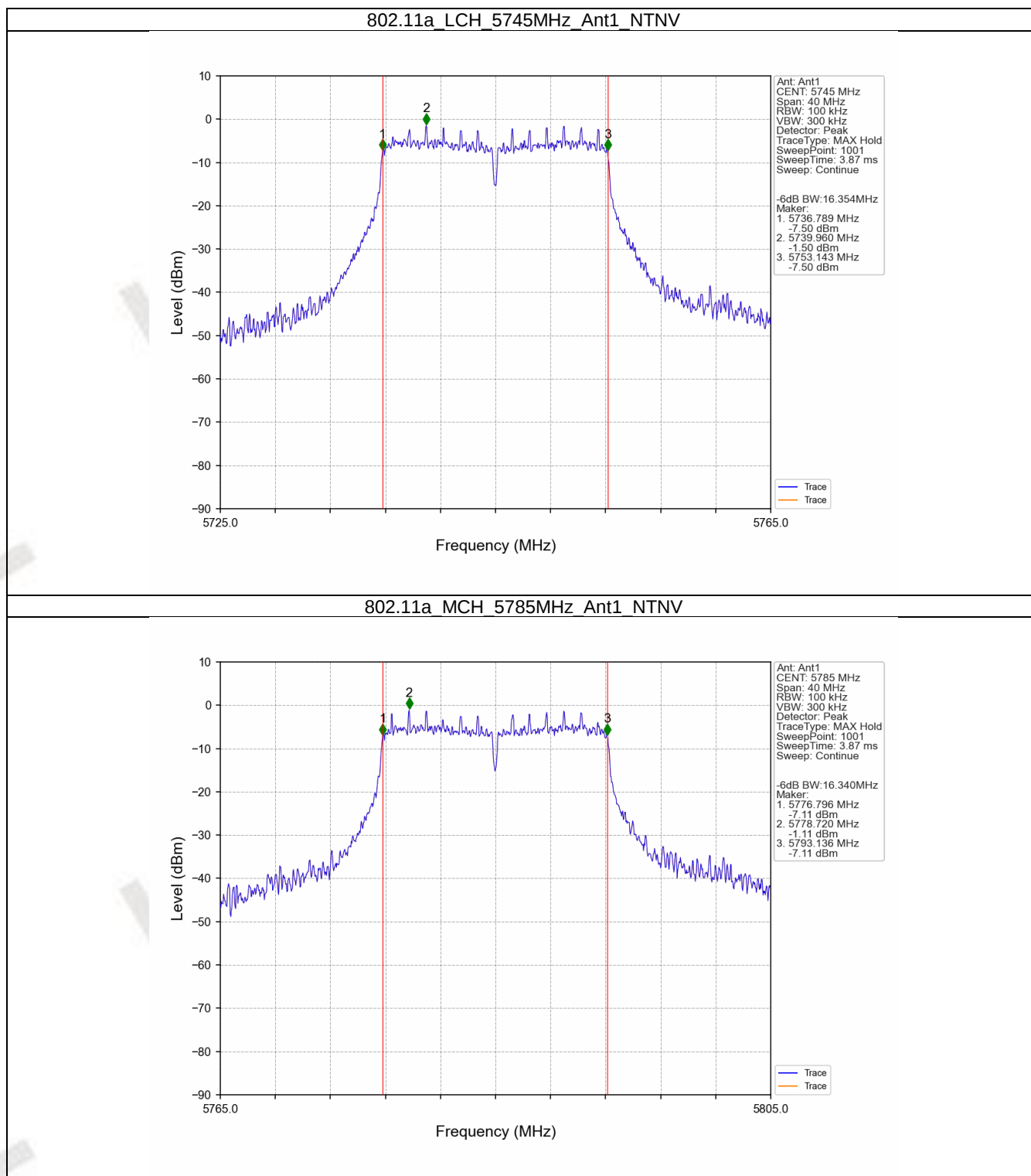


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

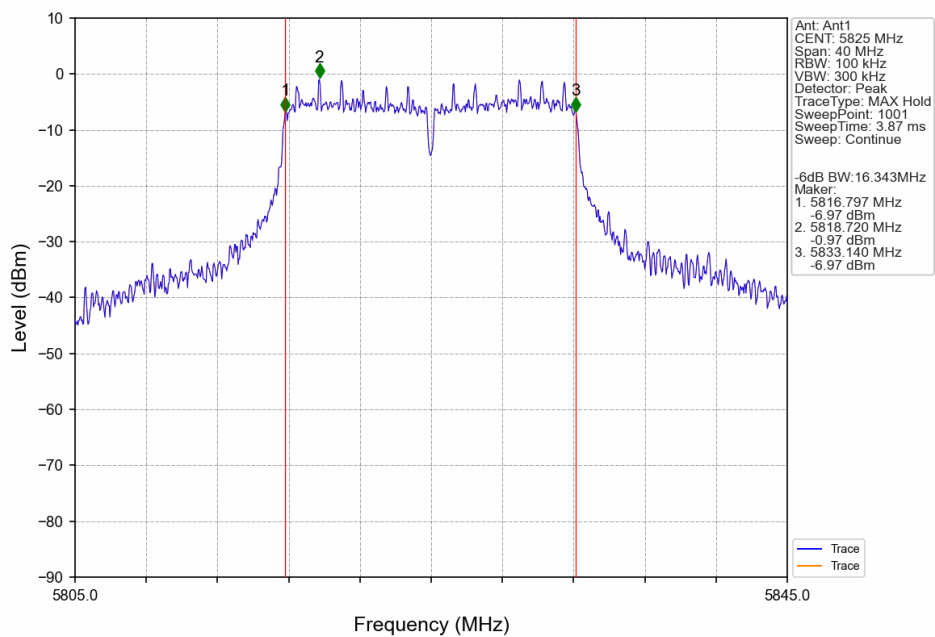




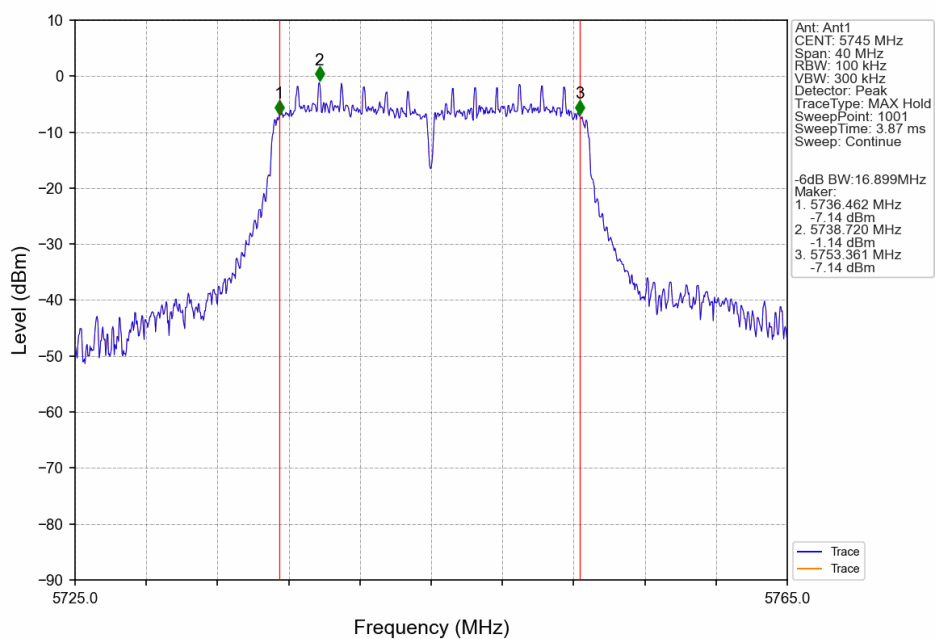
2.2.2 6dB BW



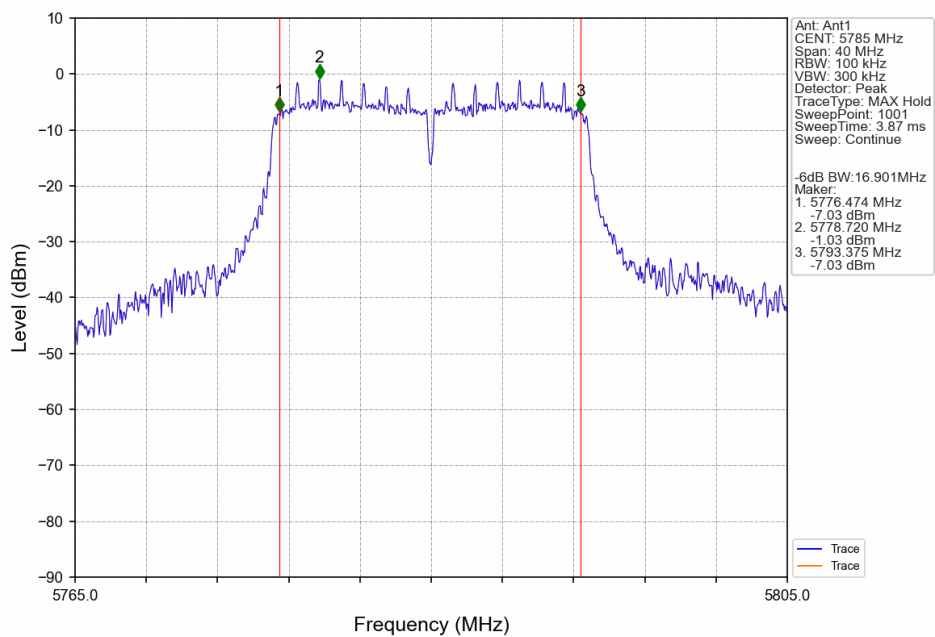
802.11a_HCH_5825MHz_Ant1_NTNV



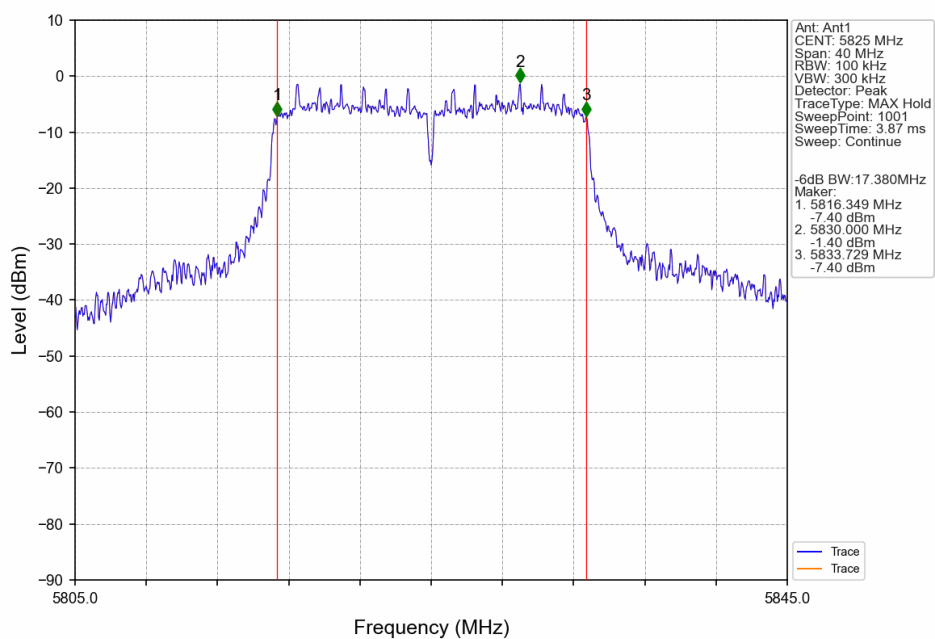
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



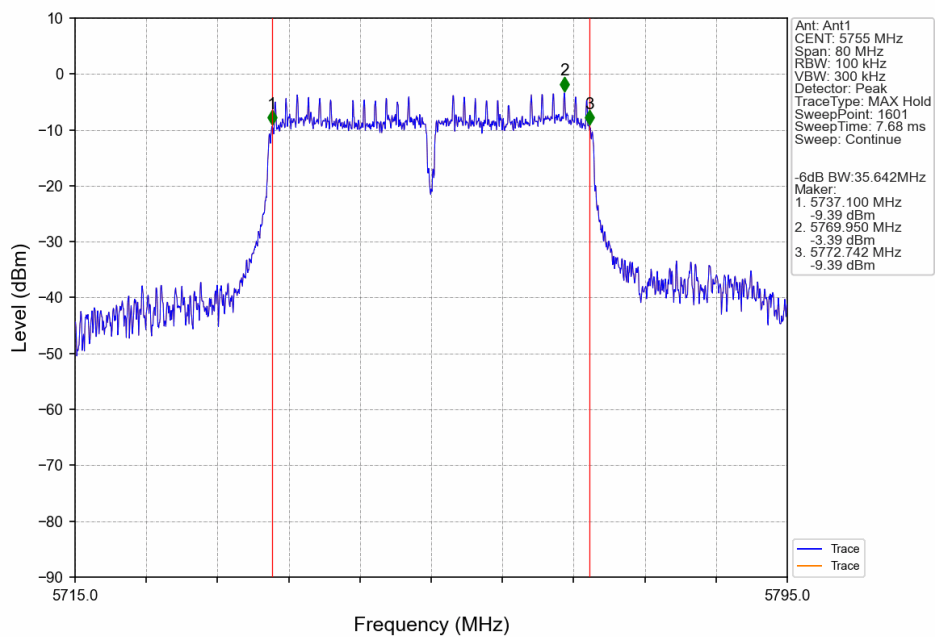
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



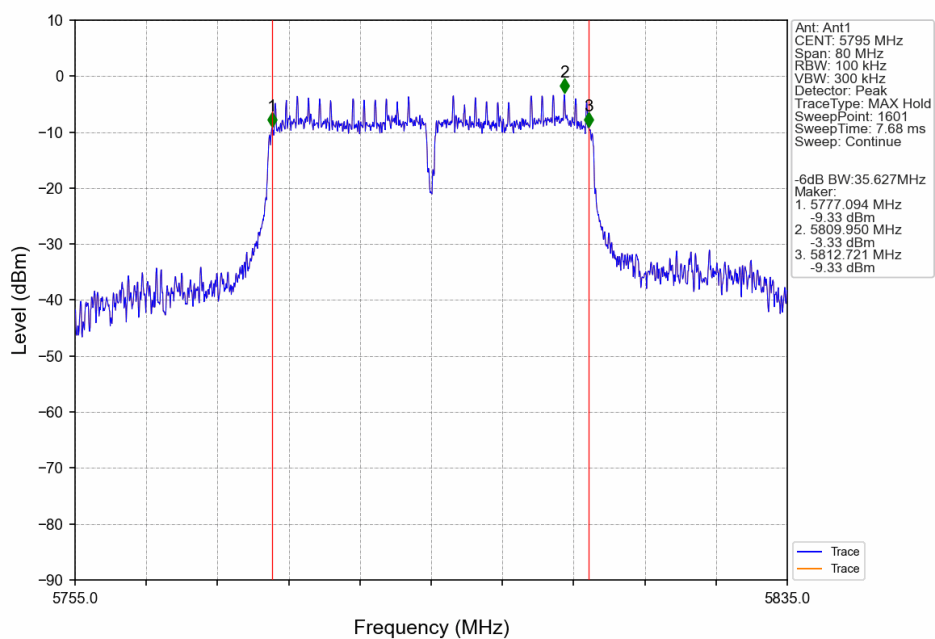
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



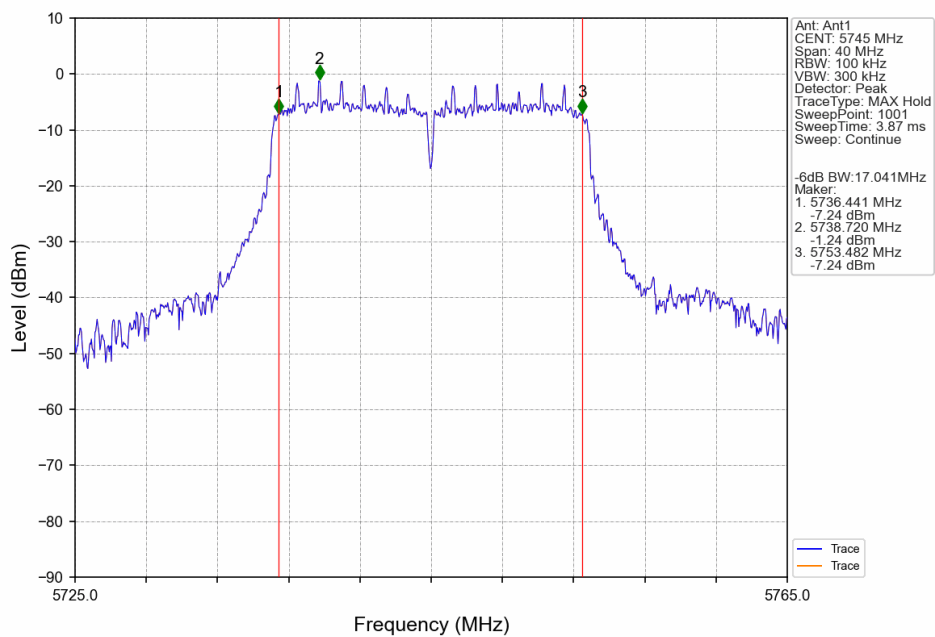
802.11n(HT40) LCH 5755MHz Ant1 NTN



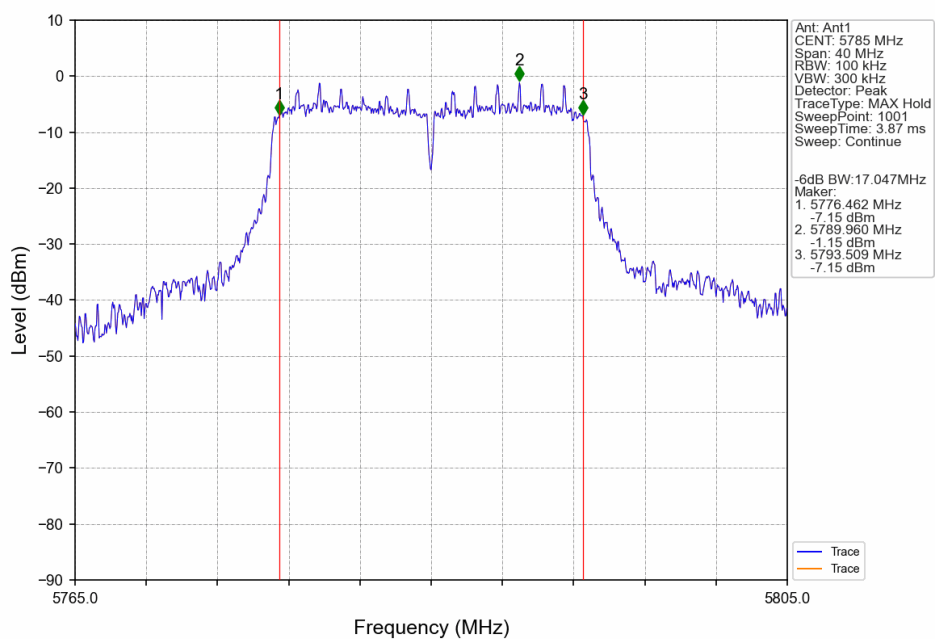
802.11n(HT40) HCH 5795MHz Ant1 NTN



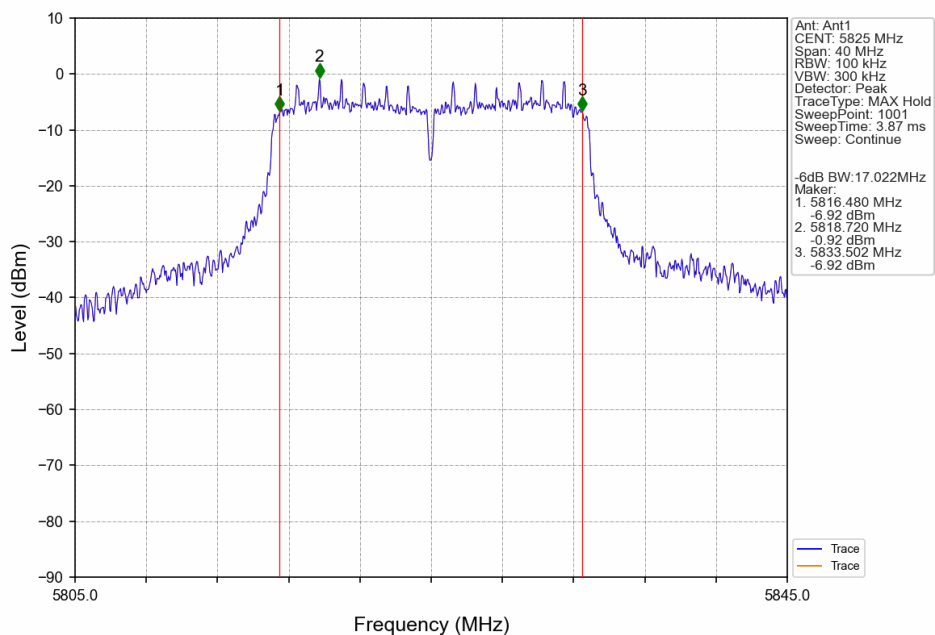
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



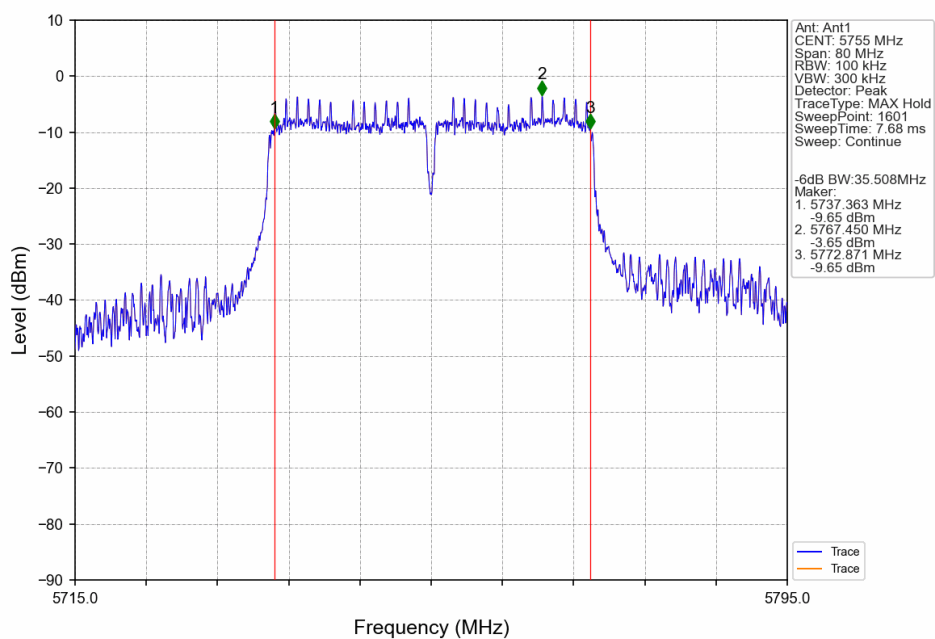
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

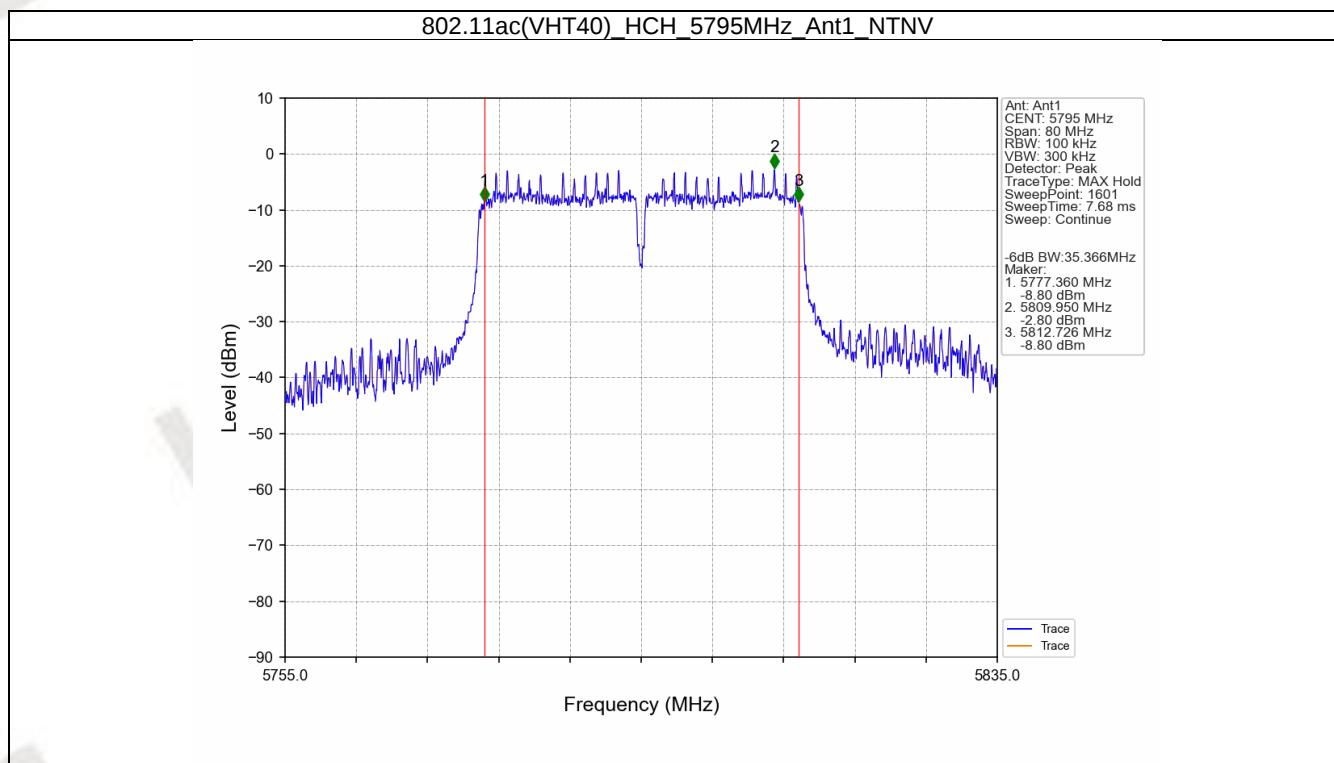


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV





3. Maximum Conducted Output Power

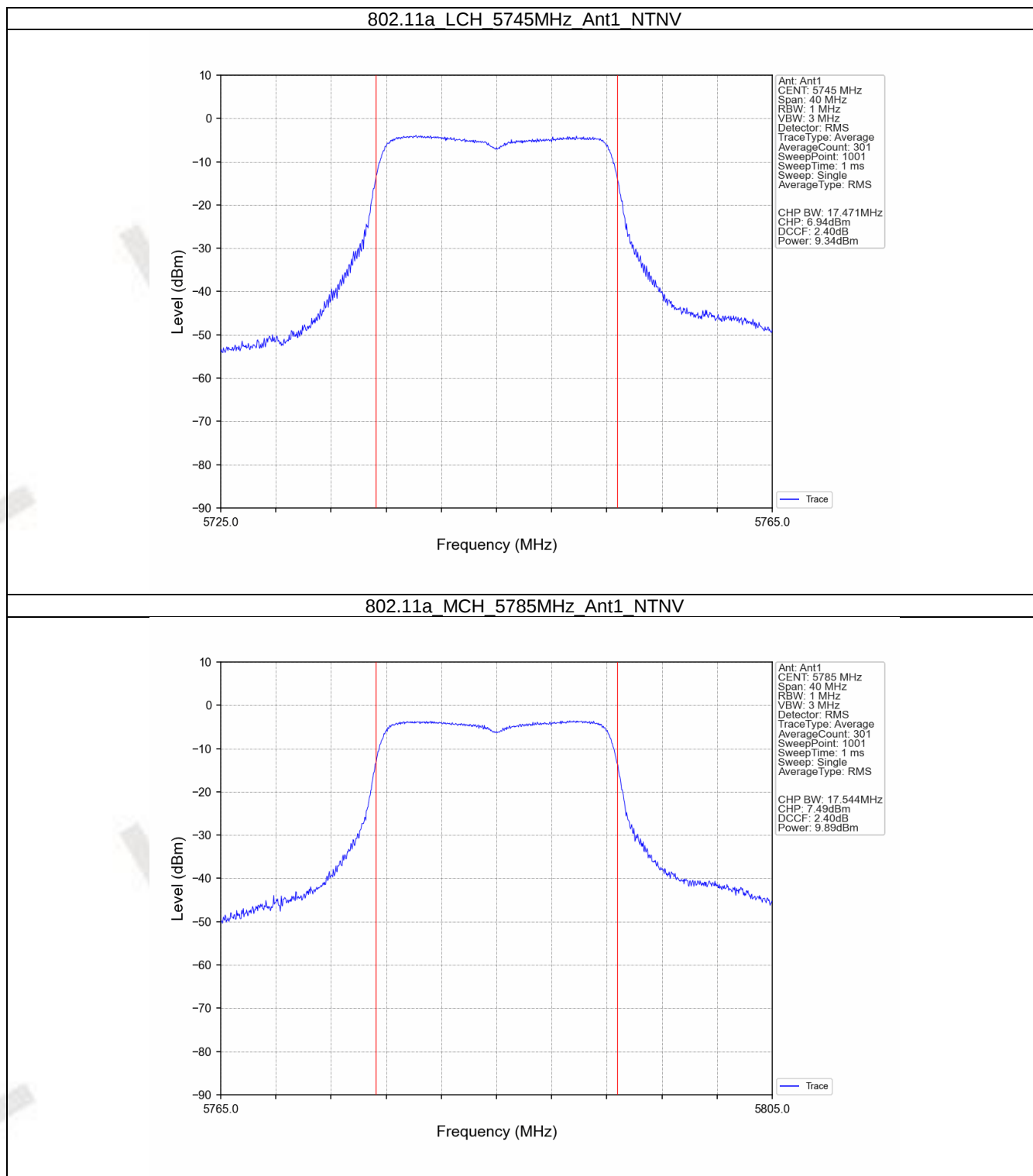
3.1 Test Result

3.1.1 Power

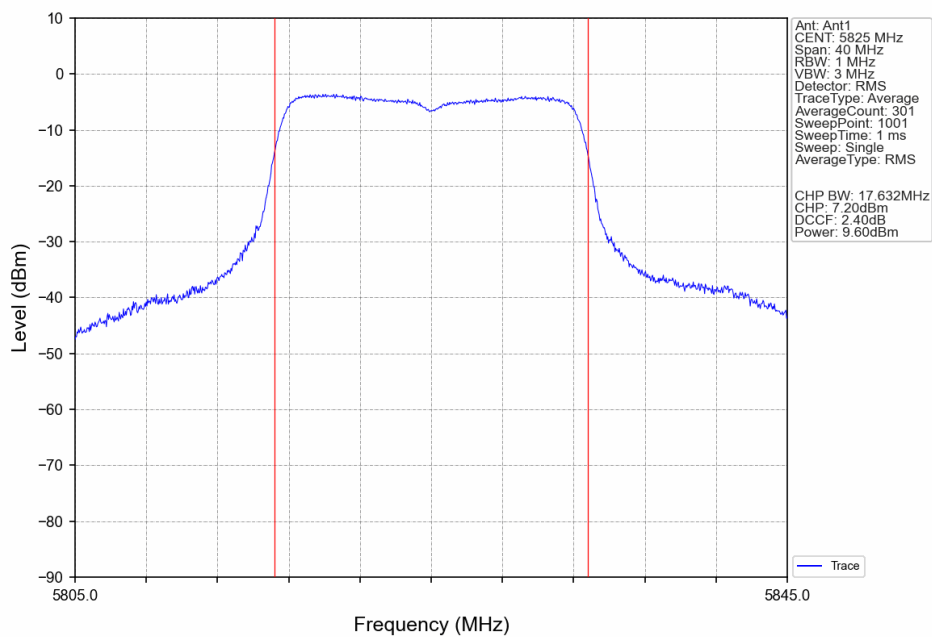
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	9.34	<=30	Pass
		5785	9.89	<=30	Pass
		5825	9.60	<=30	Pass
802.11n (HT20)	SISO	5745	9.47	<=30	Pass
		5785	9.64	<=30	Pass
		5825	9.93	<=30	Pass
802.11n (HT40)	SISO	5755	10.56	<=30	Pass
		5795	10.29	<=30	Pass
802.11ac (VHT20)	SISO	5745	9.50	<=30	Pass
		5785	9.69	<=30	Pass
		5825	9.89	<=30	Pass
802.11ac (VHT40)	SISO	5755	10.67	<=30	Pass
		5795	10.43	<=30	Pass
Note1: Antenna Gain: Ant1: 1.25dBi:					

3.2 Test Graph

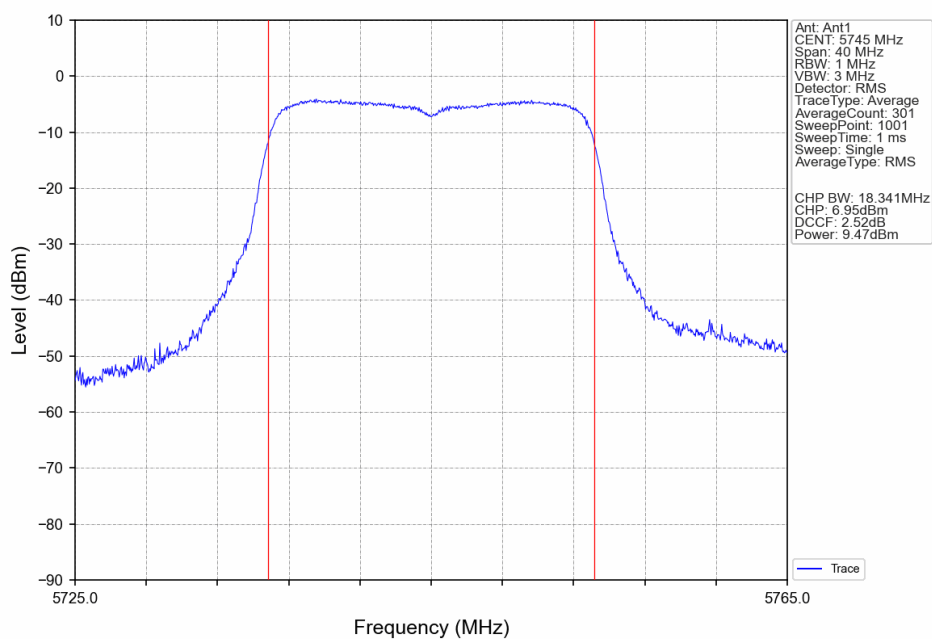
3.2.1 Power



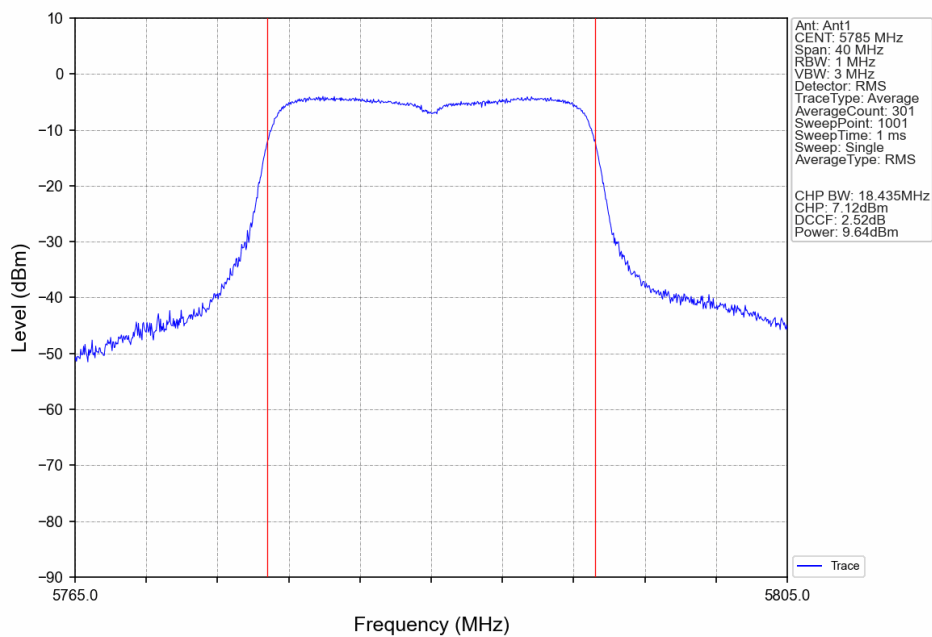
802.11a_HCH_5825MHz_Ant1_NTNV



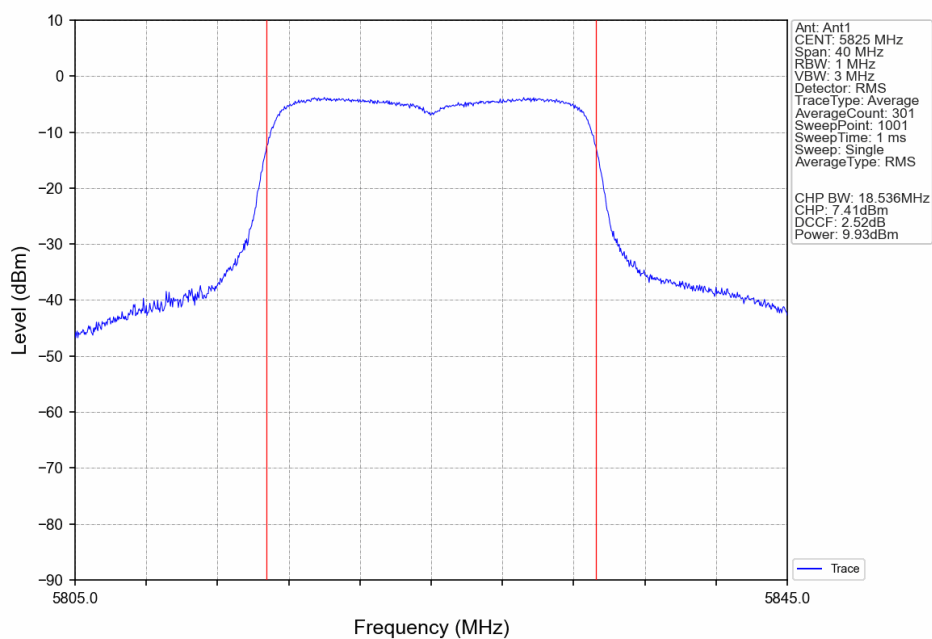
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



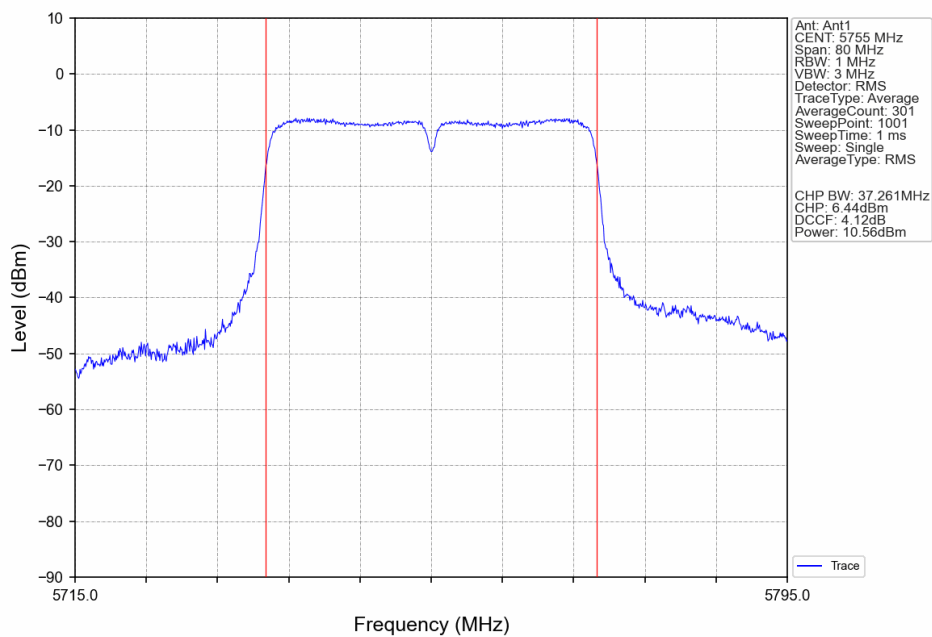
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



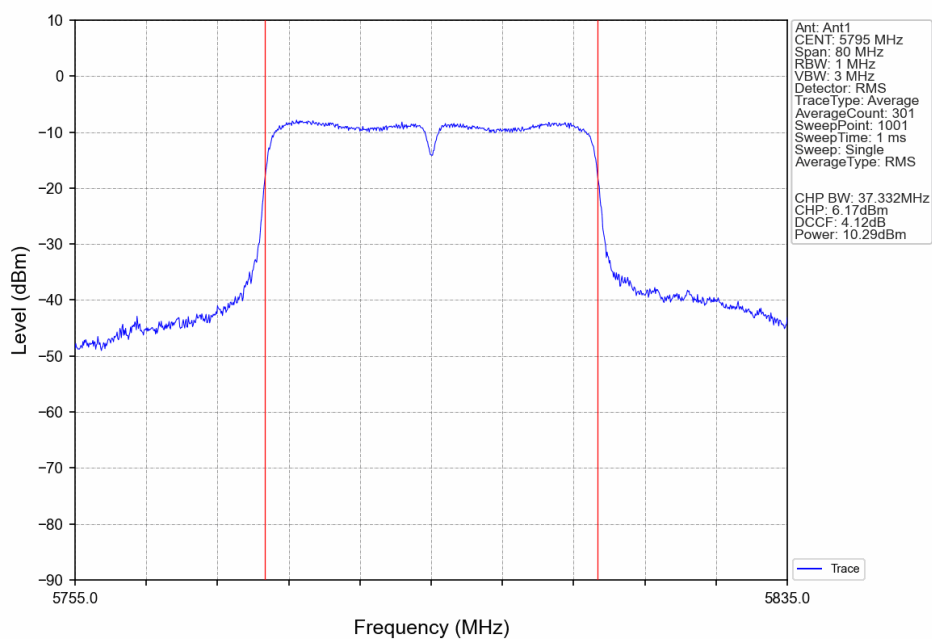
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



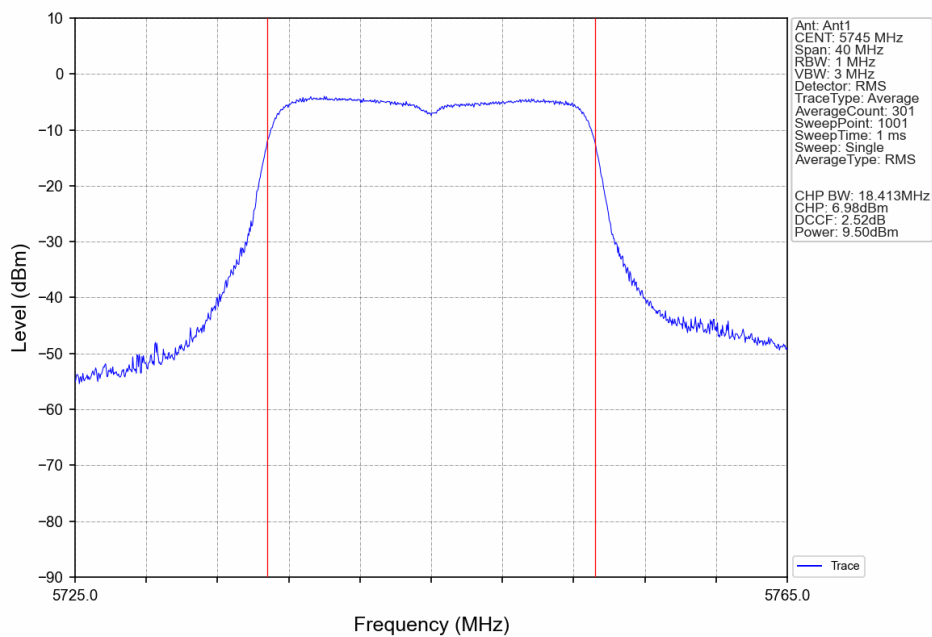
802.11n(HT40) LCH 5755MHz Ant1 NTN



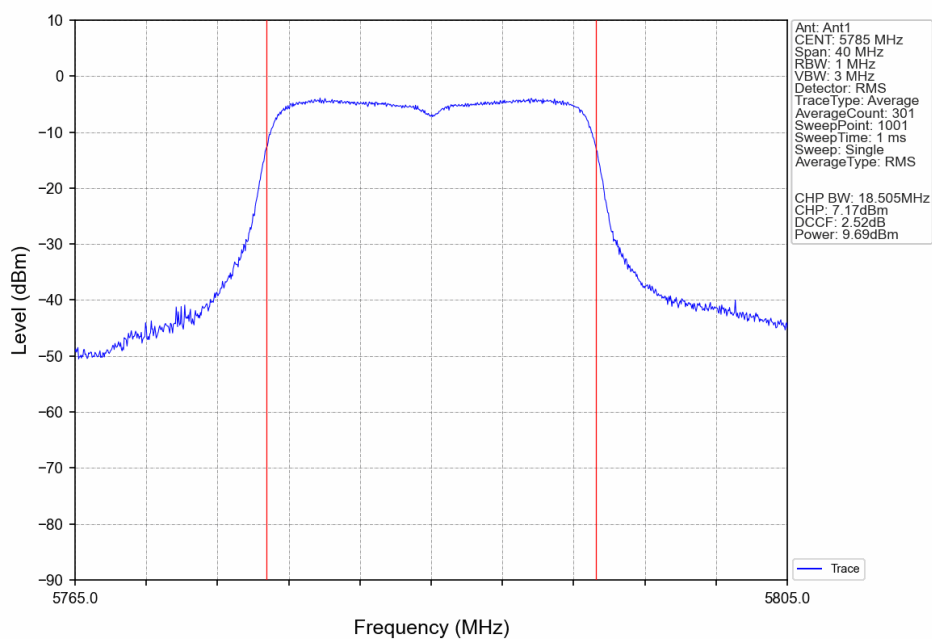
802.11n(HT40) HCH 5795MHz Ant1 NTN



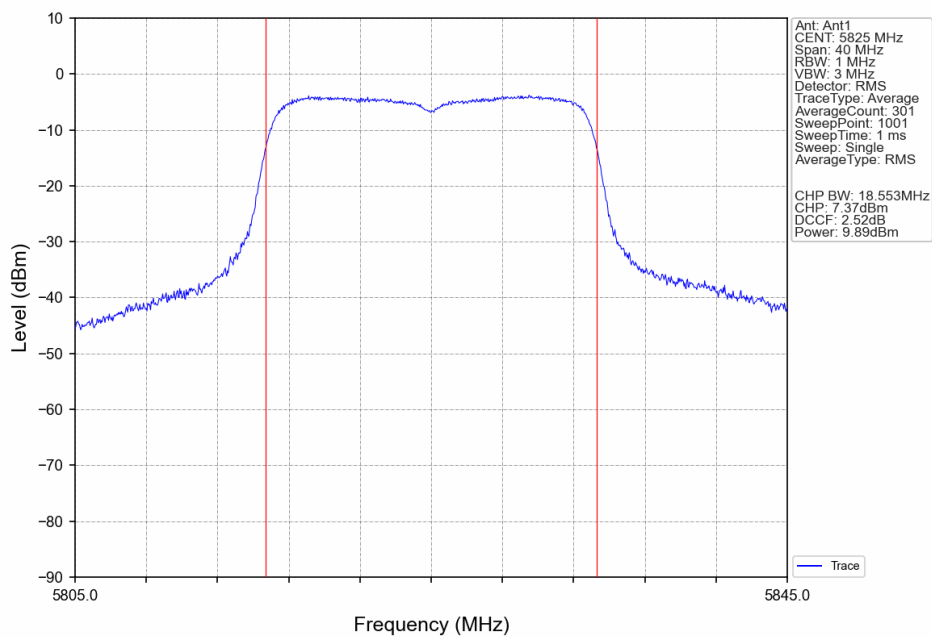
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



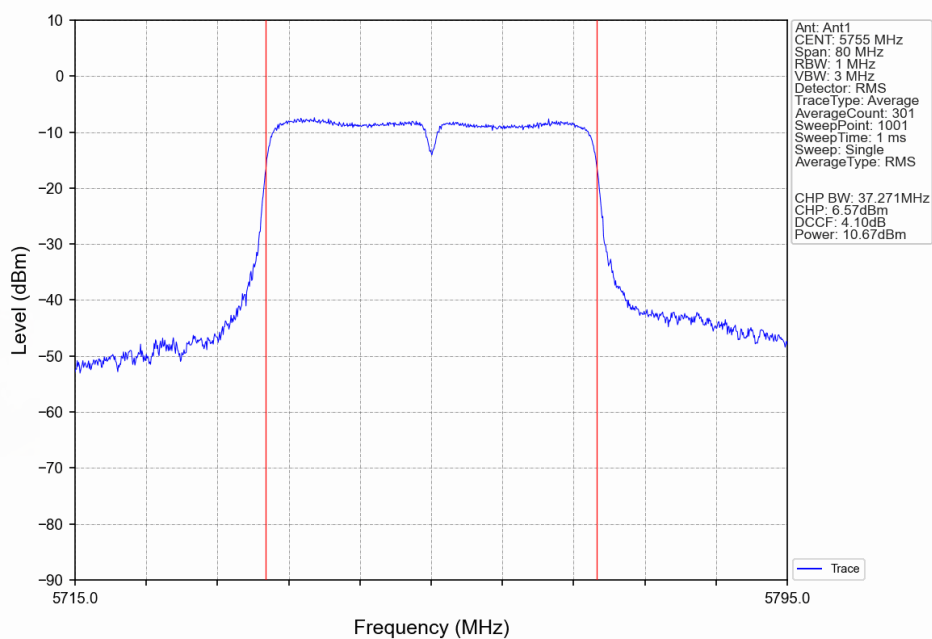
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



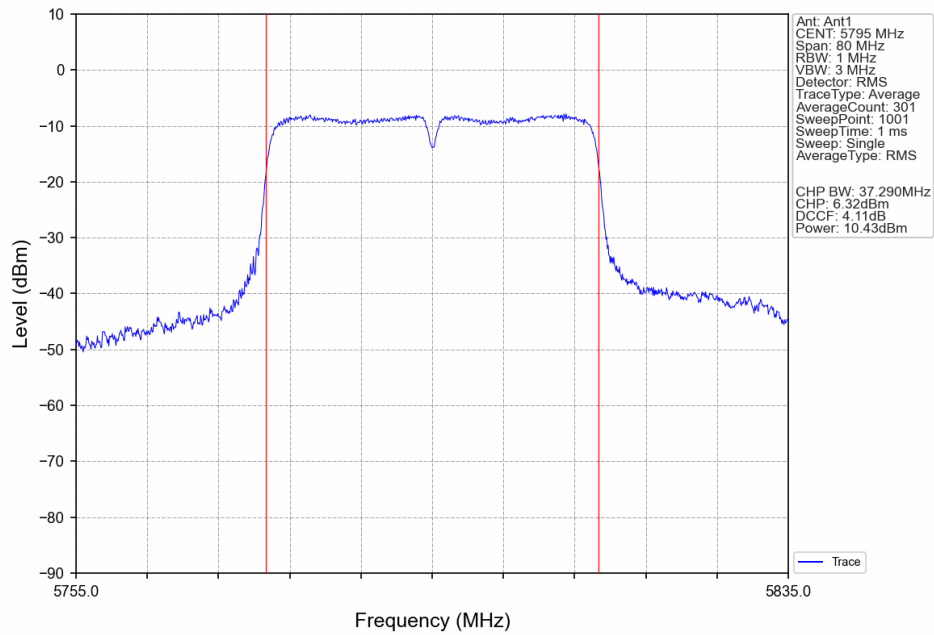
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



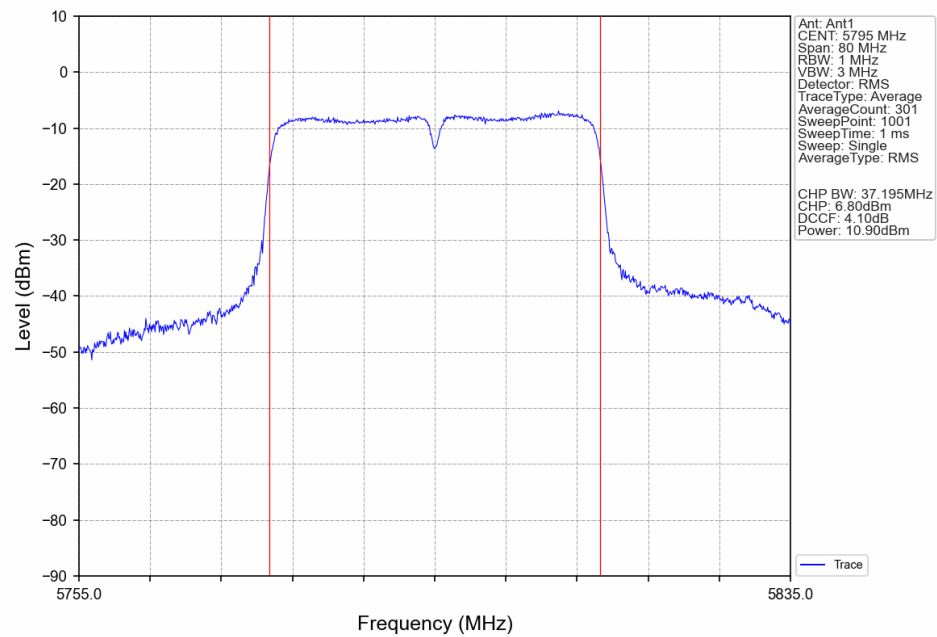
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



4. Maximum Power Spectral Density

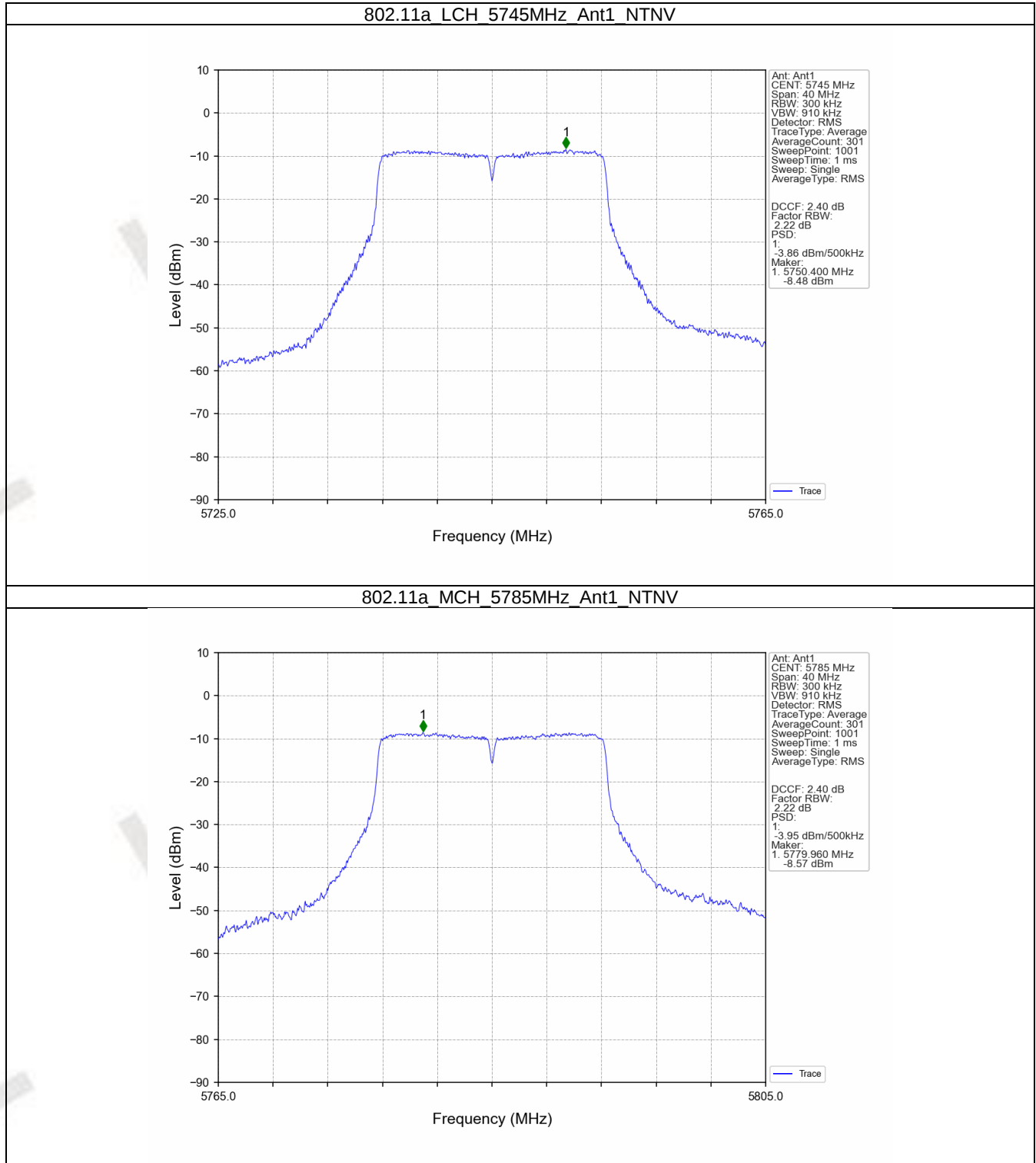
4.1 Test Result

4.1.1 PSD-Band3

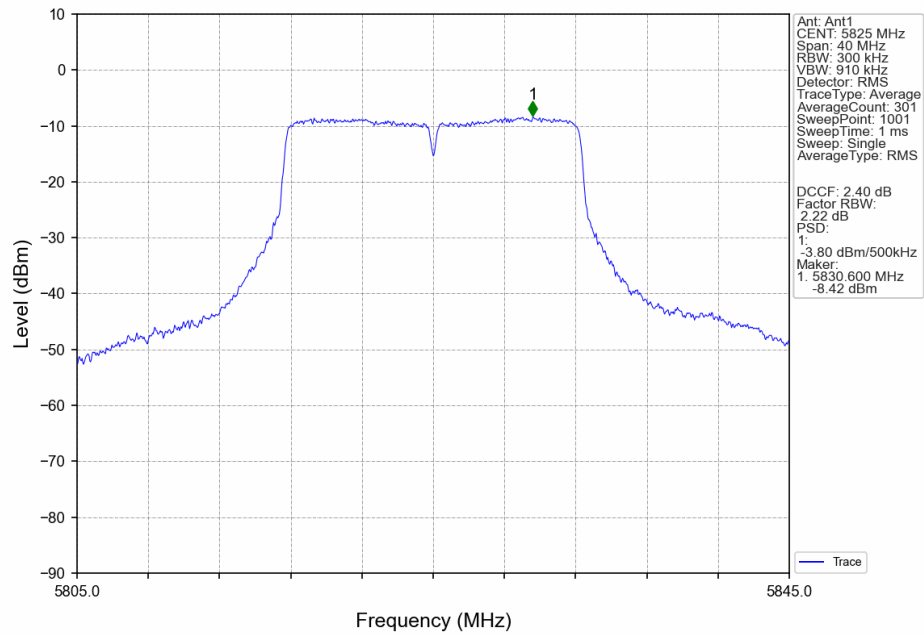
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-3.86	<=30	Pass
		5785	-3.95	<=30	Pass
		5825	-3.80	<=30	Pass
802.11n (HT20)	SISO	5745	-3.95	<=30	Pass
		5785	-3.76	<=30	Pass
		5825	-3.74	<=30	Pass
802.11n (HT40)	SISO	5755	-6.36	<=30	Pass
		5795	-5.80	<=30	Pass
802.11ac (VHT20)	SISO	5745	-3.76	<=30	Pass
		5785	-3.64	<=30	Pass
		5825	-3.65	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.78	<=30	Pass
		5795	-5.35	<=30	Pass
Note1: Antenna Gain: Ant1: 1.25dBi;					

4.2 Test Graph

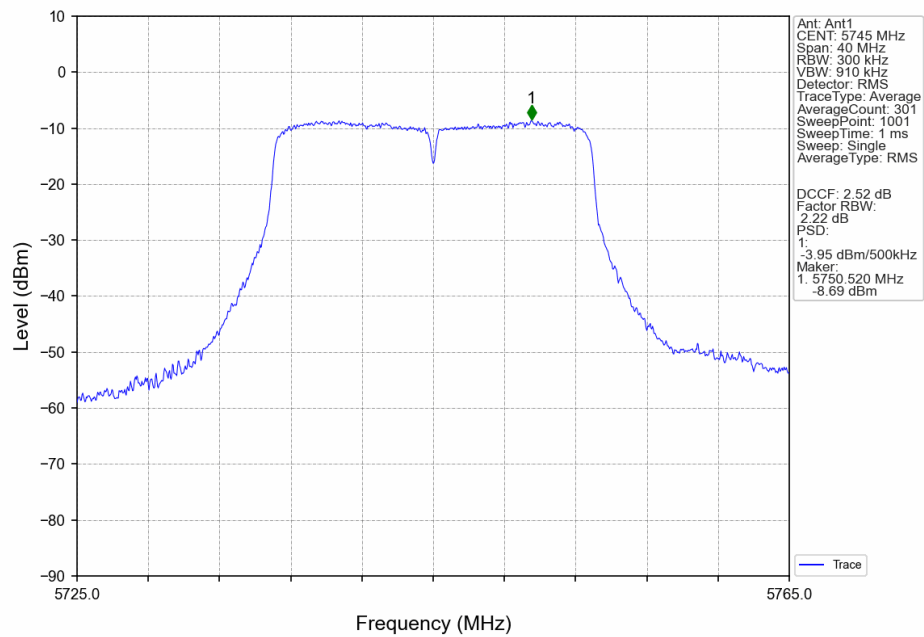
4.2.1 PSD-Band3



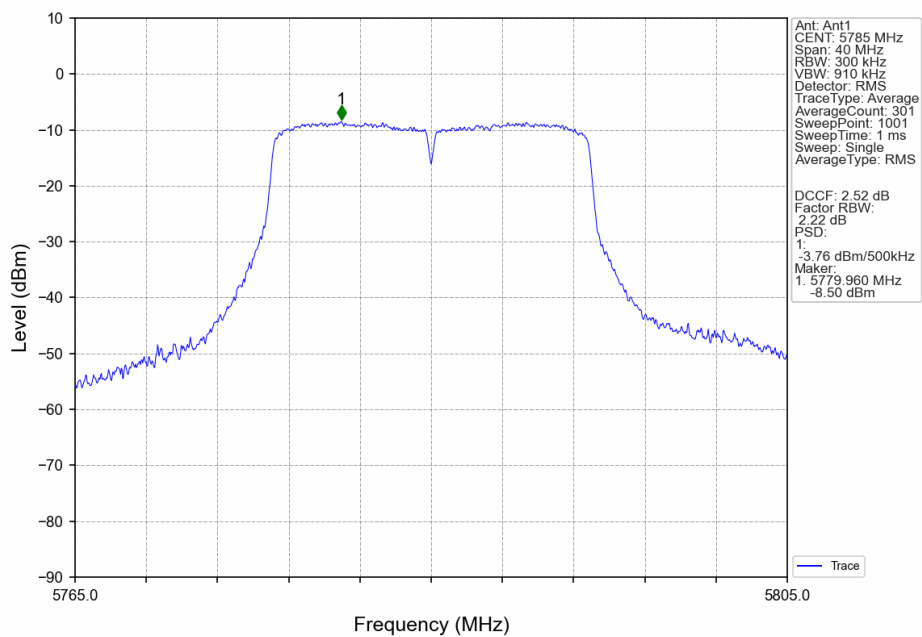
802.11a_HCH_5825MHz_Ant1_NTNV



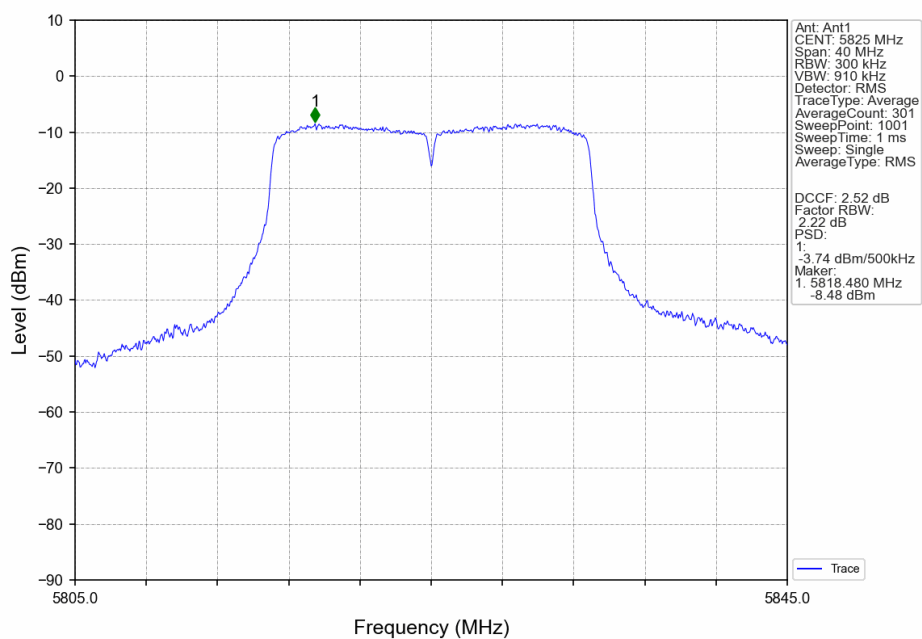
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



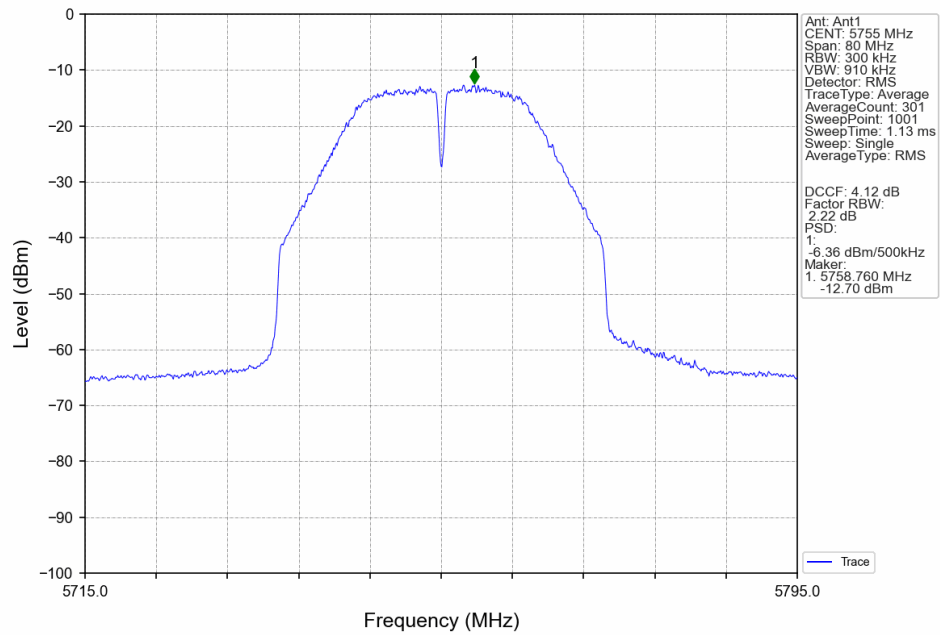
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



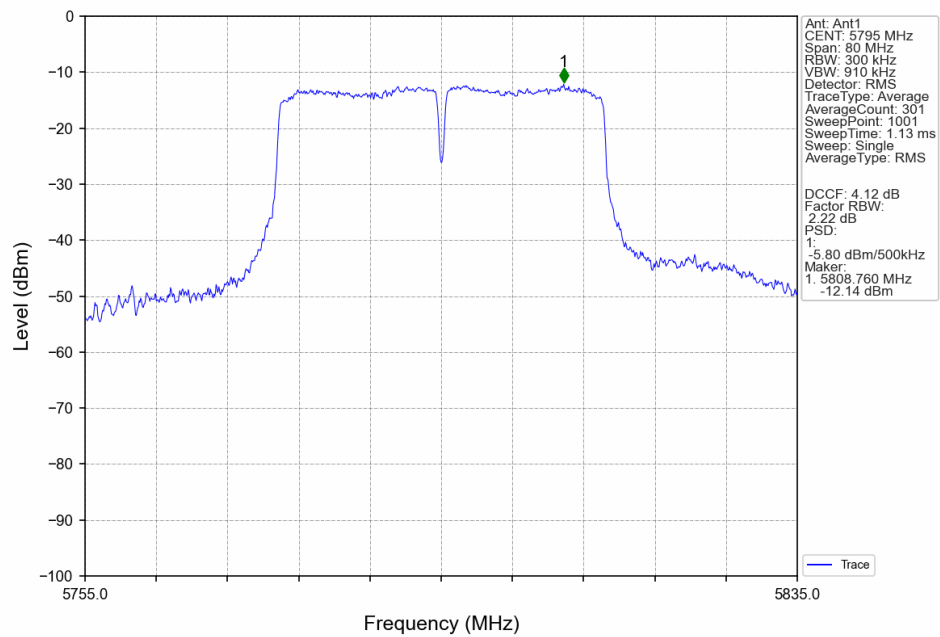
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



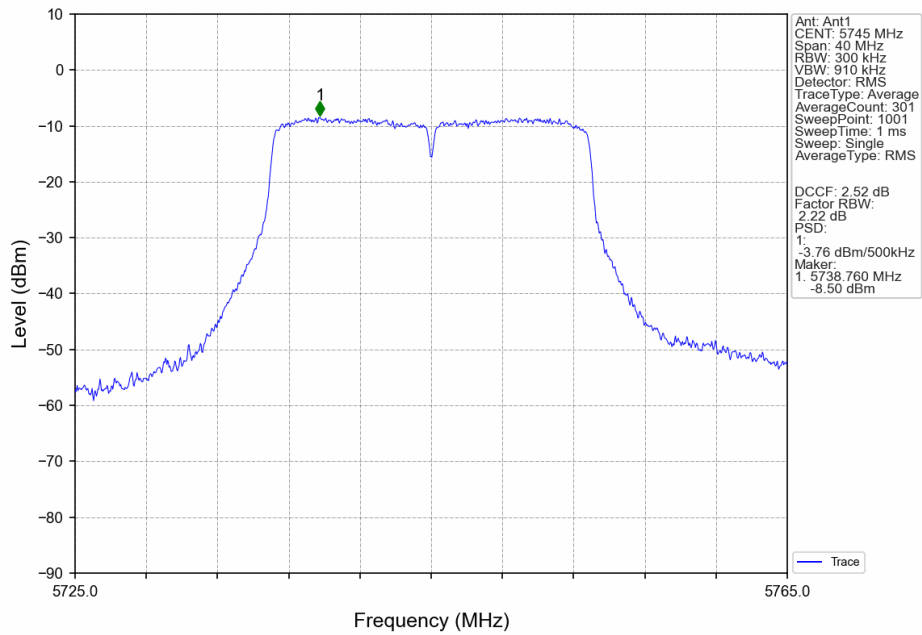
802.11n(HT40) LCH 5755MHz Ant1 NTN



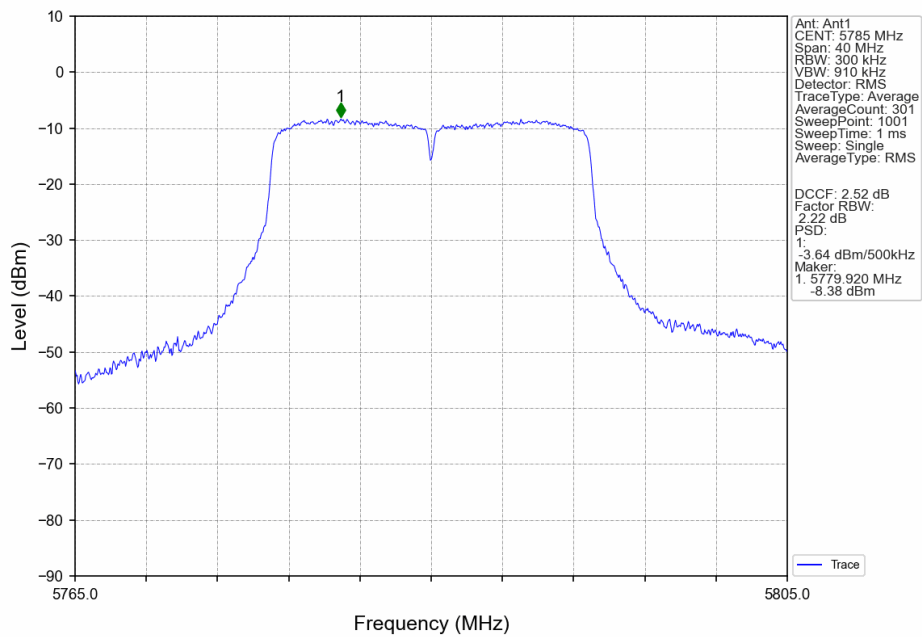
802.11n(HT40) HCH 5795MHz Ant1 NTN



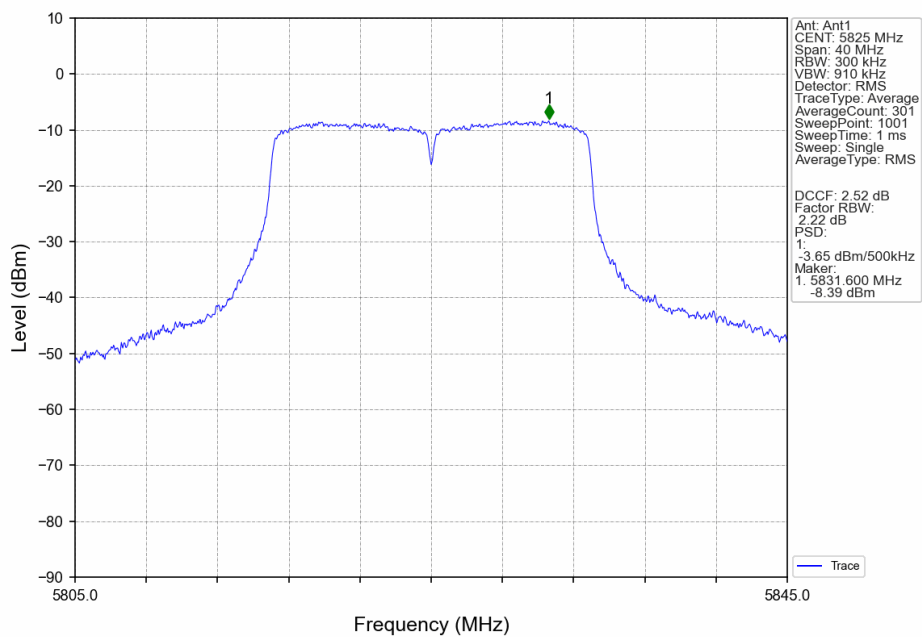
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



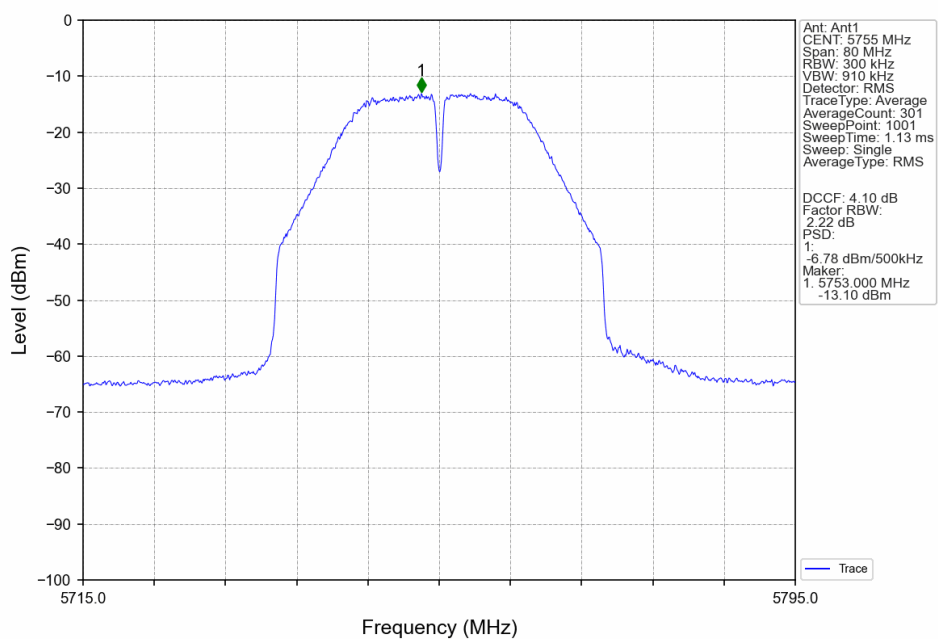
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

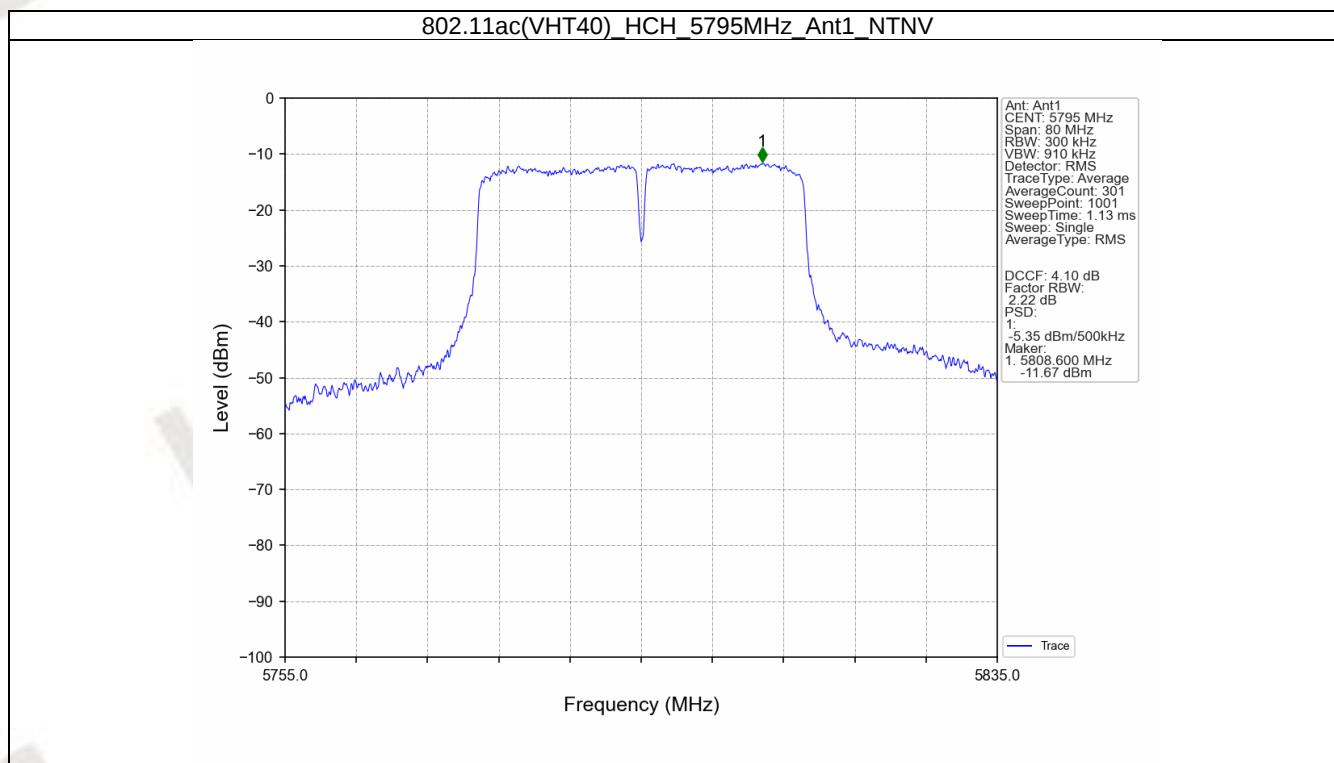


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV





5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5744.961	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5744.960	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.960	5725 to 5850	Pass
			-10	120	5744.959	5725 to 5850	Pass
			0	120	5744.959	5725 to 5850	Pass
			10	120	5744.959	5725 to 5850	Pass
			30	120	5744.959	5725 to 5850	Pass
			40	120	5744.959	5725 to 5850	Pass
			50	120	5744.959	5725 to 5850	Pass
		5785	20	102	5784.960	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
				138	5784.959	5725 to 5850	Pass
			-30	120	5784.959	5725 to 5850	Pass
			-20	120	5784.959	5725 to 5850	Pass
			-10	120	5784.959	5725 to 5850	Pass
			0	120	5784.959	5725 to 5850	Pass
			10	120	5784.959	5725 to 5850	Pass
			30	120	5784.959	5725 to 5850	Pass
			40	120	5784.959	5725 to 5850	Pass
			50	120	5784.959	5725 to 5850	Pass
		5825	20	102	5824.959	5725 to 5850	Pass
				120	5824.959	5725 to 5850	Pass
				138	5824.959	5725 to 5850	Pass
			-30	120	5824.959	5725 to 5850	Pass
			-20	120	5824.959	5725 to 5850	Pass
			-10	120	5824.959	5725 to 5850	Pass
			0	120	5824.959	5725 to 5850	Pass
			10	120	5824.959	5725 to 5850	Pass
			30	120	5824.959	5725 to 5850	Pass
			40	120	5824.959	5725 to 5850	Pass
			50	120	5824.959	5725 to 5850	Pass
		5755	20	102	5754.960	5725 to 5850	Pass
				120	5754.960	5725 to 5850	Pass
				138	5754.960	5725 to 5850	Pass
			-30	120	5754.959	5725 to 5850	Pass
			-20	120	5754.959	5725 to 5850	Pass
			-10	120	5754.959	5725 to 5850	Pass
			0	120	5754.959	5725 to 5850	Pass
			10	120	5754.959	5725 to 5850	Pass
			30	120	5754.959	5725 to 5850	Pass
			40	120	5754.959	5725 to 5850	Pass
			50	120	5754.959	5725 to 5850	Pass
		5795	20	102	5794.960	5725 to 5850	Pass
				120	5794.959	5725 to 5850	Pass
				138	5794.959	5725 to 5850	Pass
			-30	120	5794.959	5725 to 5850	Pass
			-20	120	5794.959	5725 to 5850	Pass
			-10	120	5794.959	5725 to 5850	Pass

			0	120	5794.959	5725 to 5850	Pass
			10	120	5794.959	5725 to 5850	Pass
			30	120	5794.959	5725 to 5850	Pass
			40	120	5794.959	5725 to 5850	Pass
			50	120	5794.959	5725 to 5850	Pass