

Appendix for 15.247

Product Name: TT1001 10.1 inch Tablet

Test Model: TT1001V3

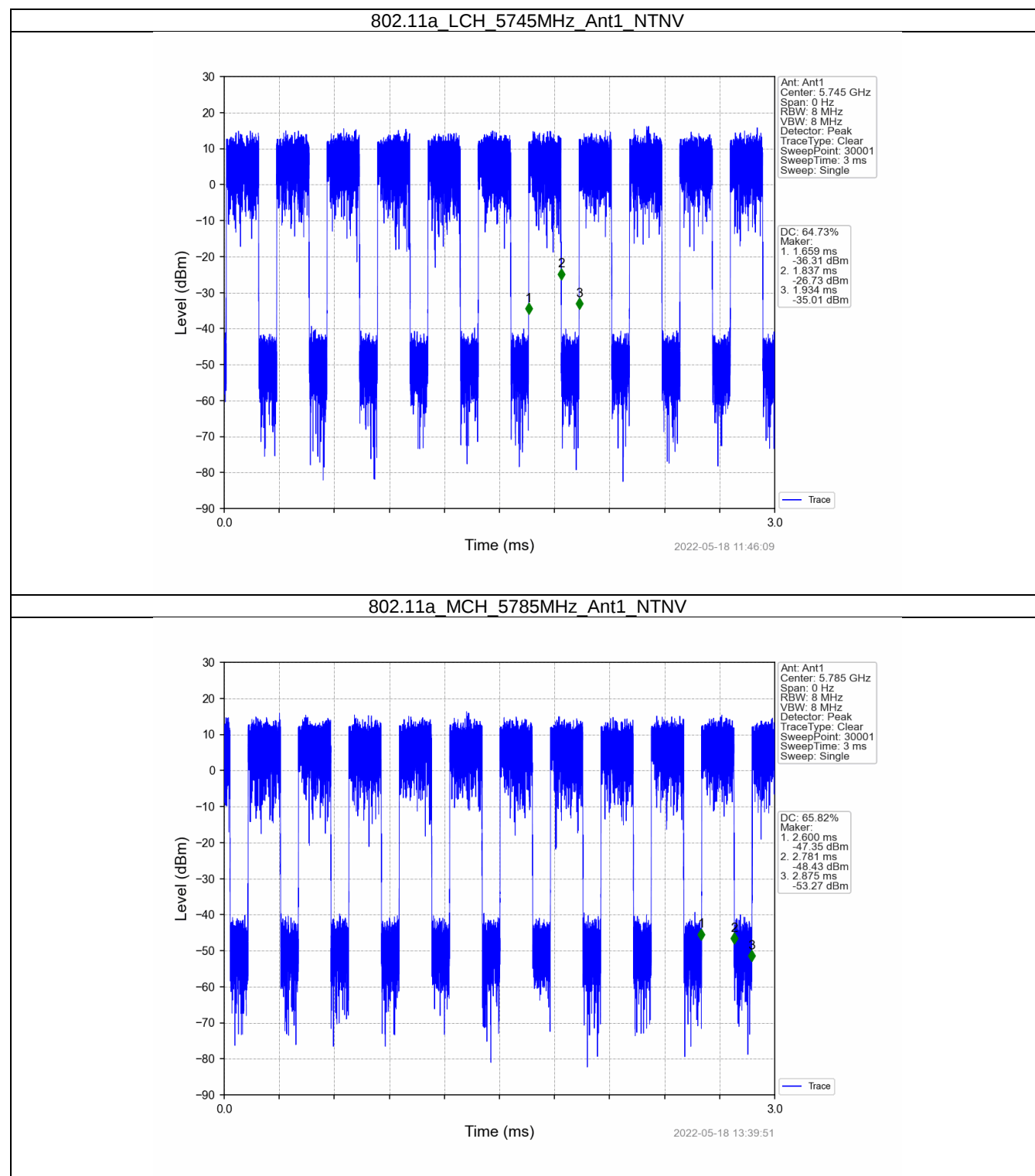
1. Duty Cycle

1.1 Ant1

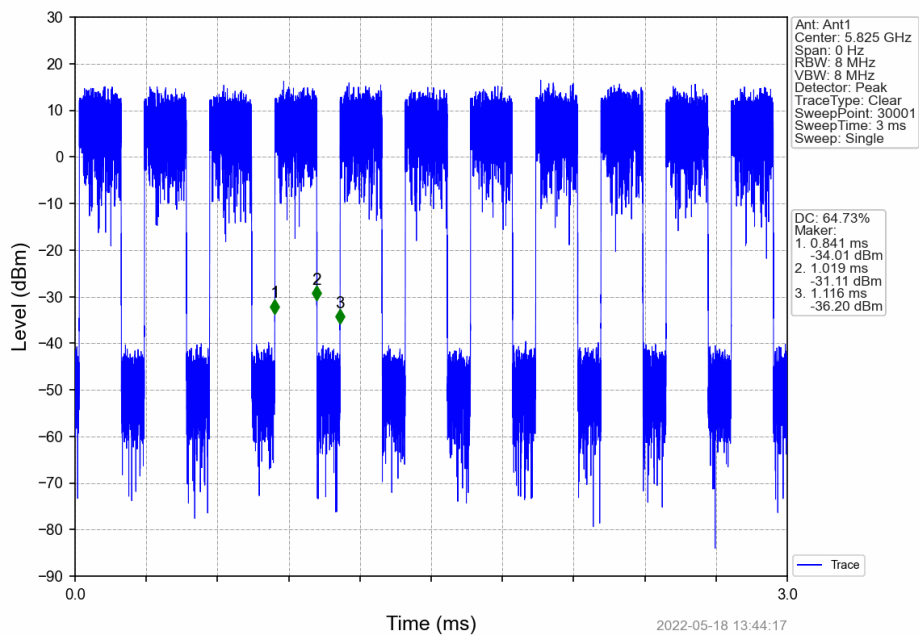
1.1.1 Test Result

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	0.178	0.275	64.73	1.89	0.11
		5785	0.181	0.275	65.82	1.82	0.10
		5825	0.178	0.275	64.73	1.89	0.08
802.11n (HT20)	SISO	5745	0.165	0.262	62.98	2.01	0.06
		5785	0.164	0.262	62.60	2.03	0.10
		5825	0.166	0.263	63.12	2.00	0.10
802.11n (HT40)	SISO	5755	0.103	0.199	51.76	2.86	0.22
		5795	0.101	0.199	50.75	2.95	0.10
802.11ac (VHT20)	SISO	5745	0.365	0.459	79.52	1.00	0.07
		5785	0.363	0.460	78.91	1.03	0.09
		5825	0.366	0.459	79.74	0.98	0.08
802.11ac (VHT40)	SISO	5755	0.088	0.187	47.06	3.27	0.09
		5795	0.089	0.187	47.59	3.22	0.05
802.11ac (VHT80)	SISO	5775	0.066	0.163	40.49	3.93	0.08

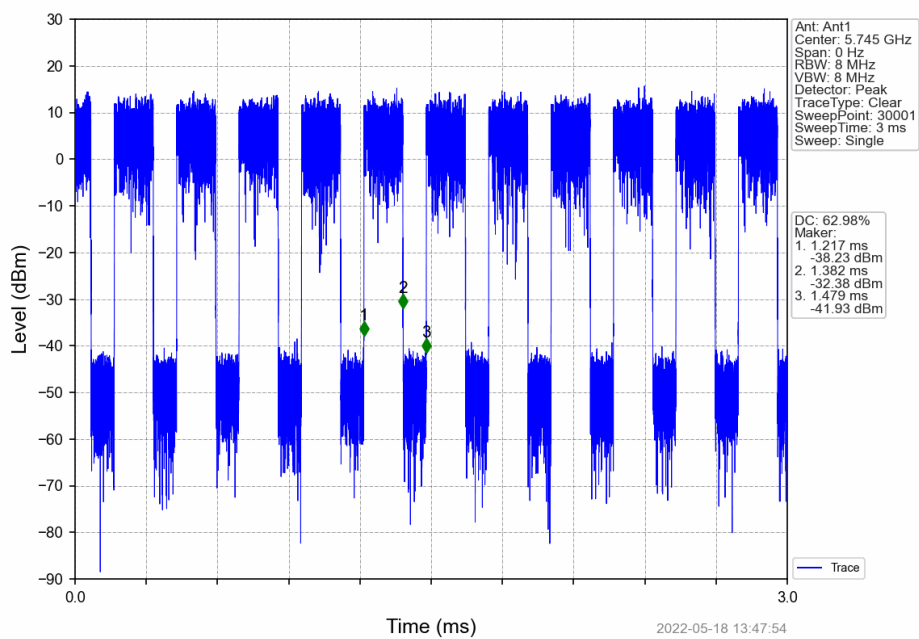
1.1.2 Test Graph



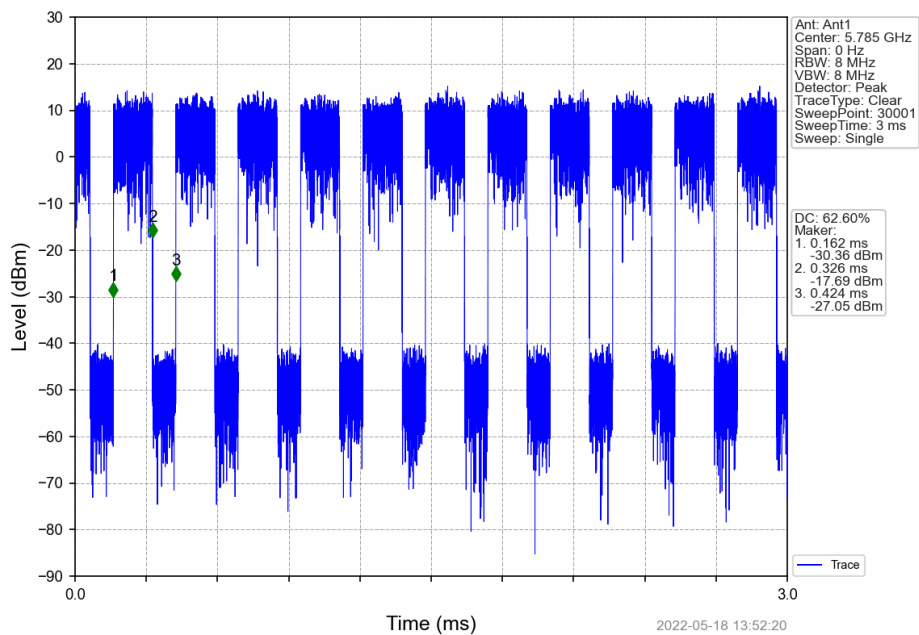
802.11a HCH 5825MHz Ant1 NTV



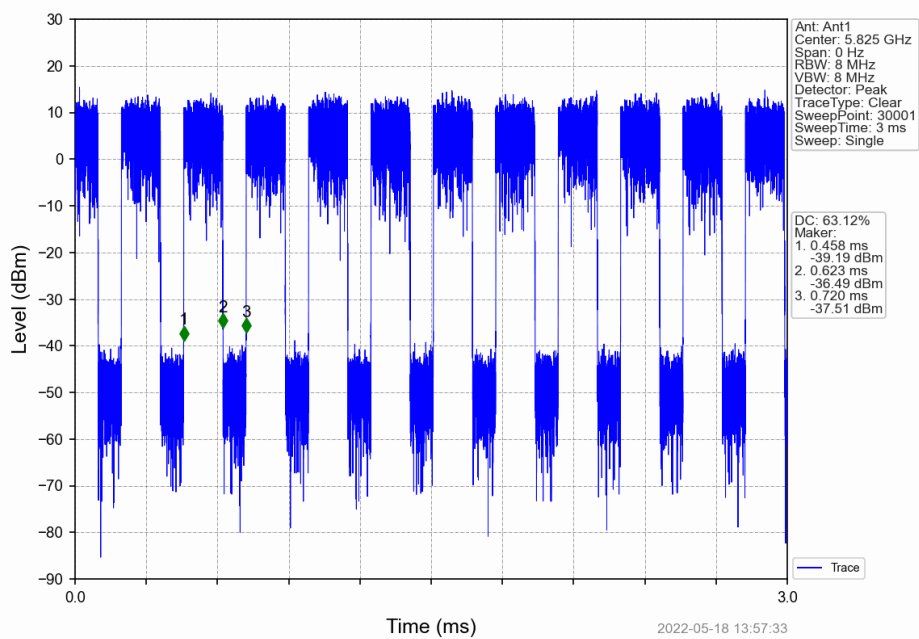
802.11n(HT20) LCH 5745MHz Ant1 NTV



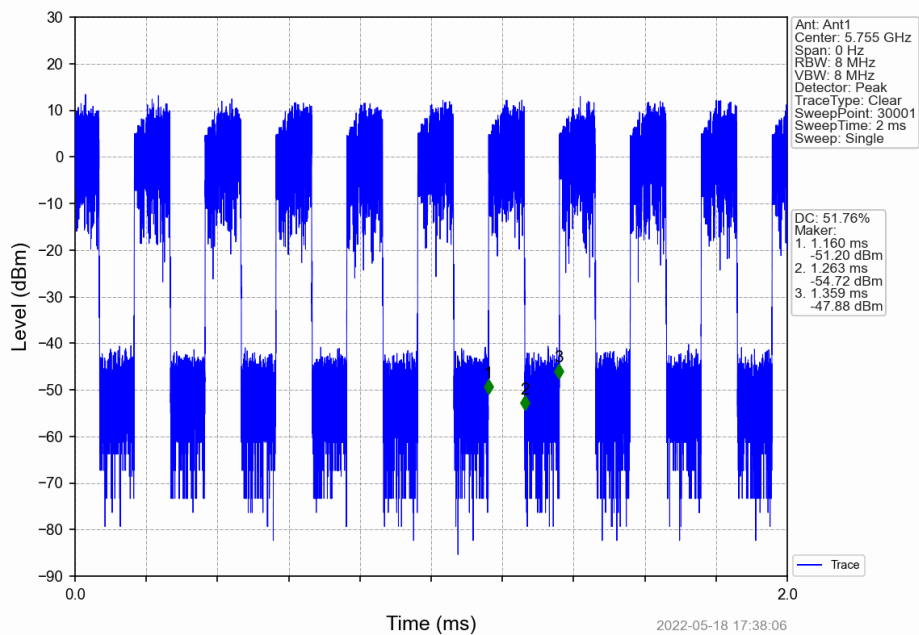
802.11n(HT20) MCH 5785MHz Ant1 NTN



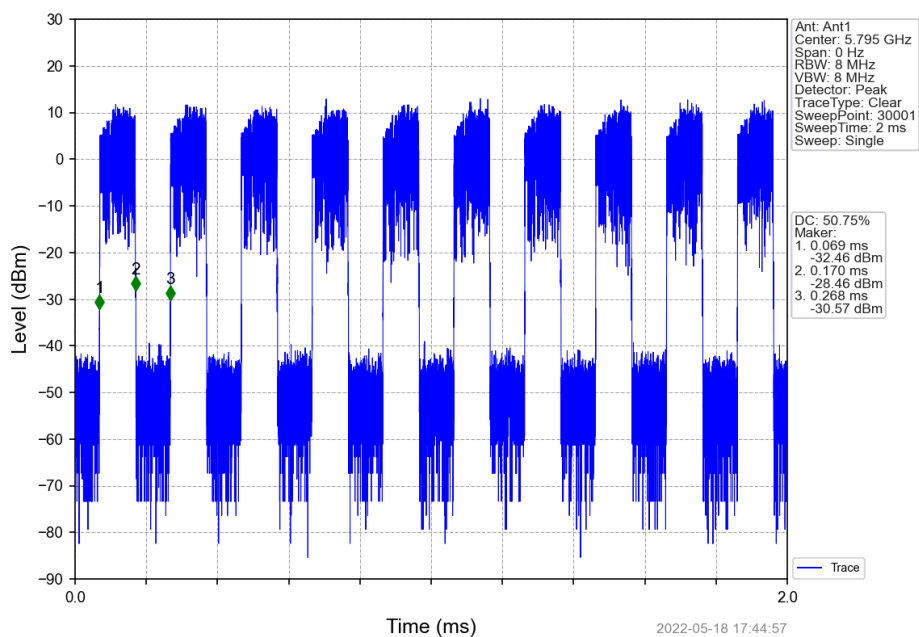
802.11n(HT20)_HCH_5825MHz_Ant1_NTN



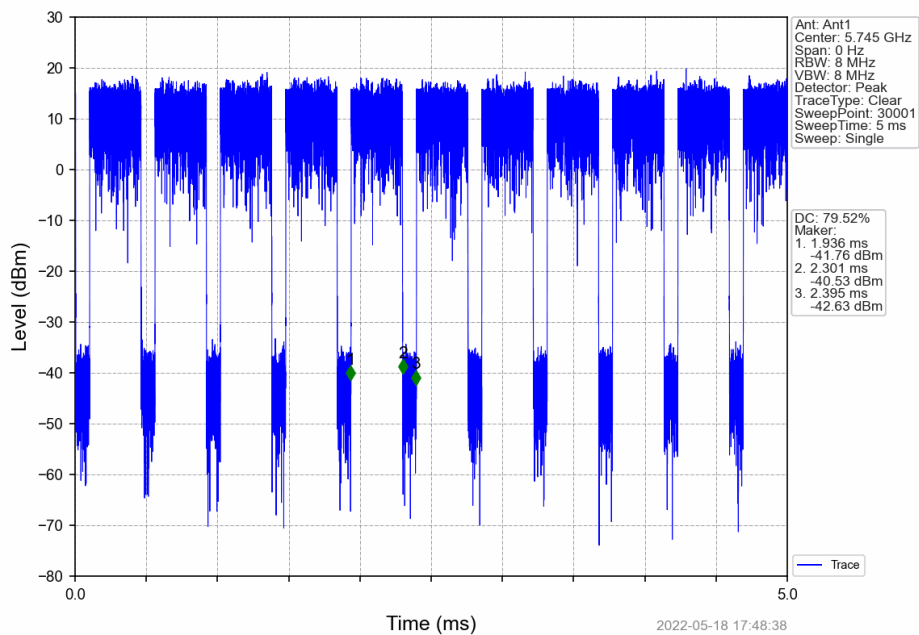
802.11n(HT40) LCH 5755MHz Ant1 NTV



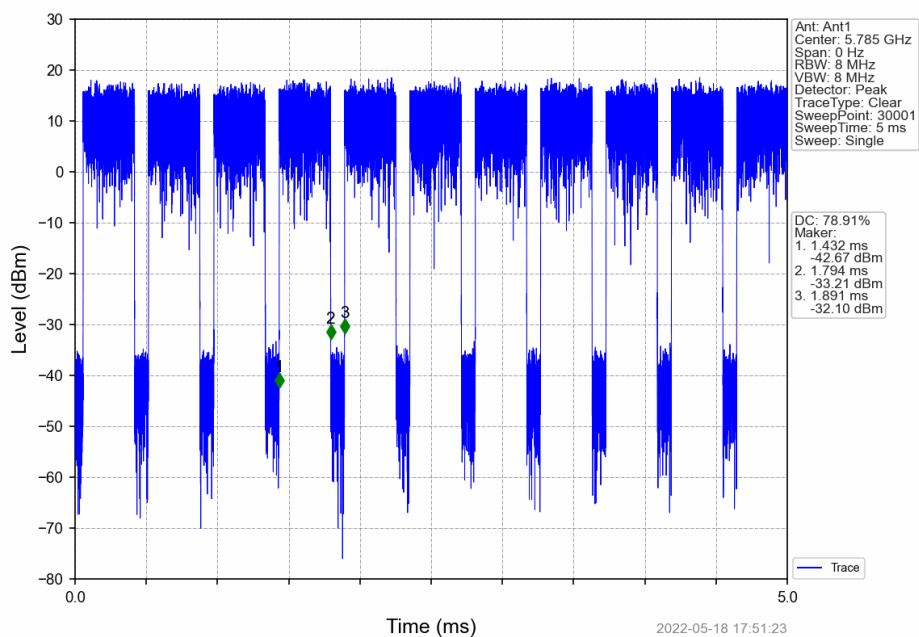
802.11n(HT40)_HCH_5795MHz_Ant1_NTV



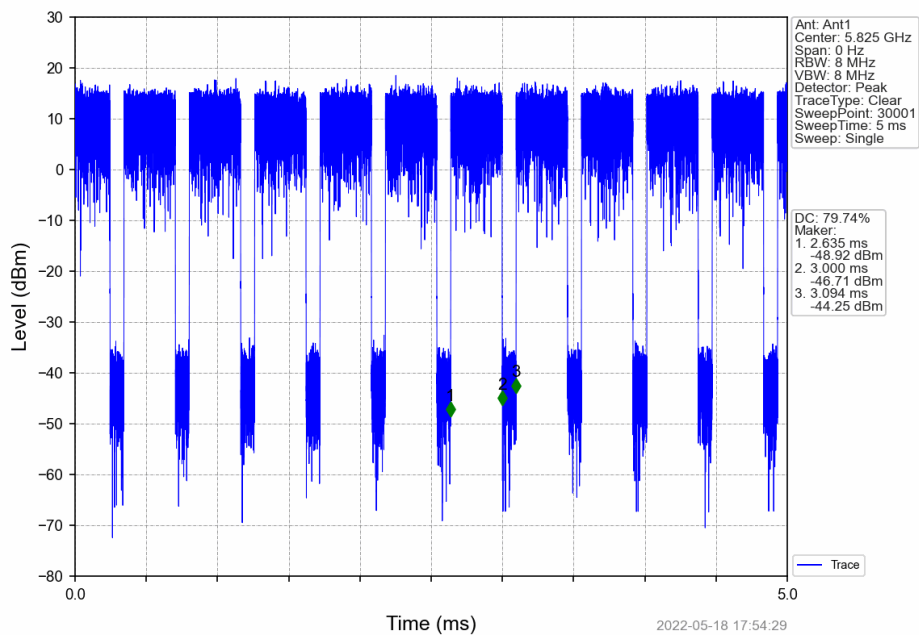
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



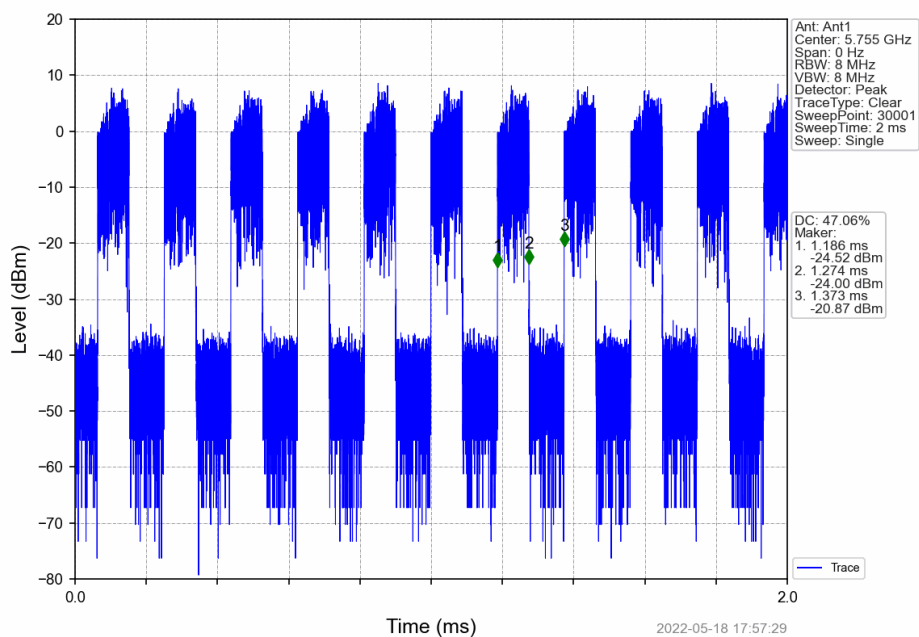
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



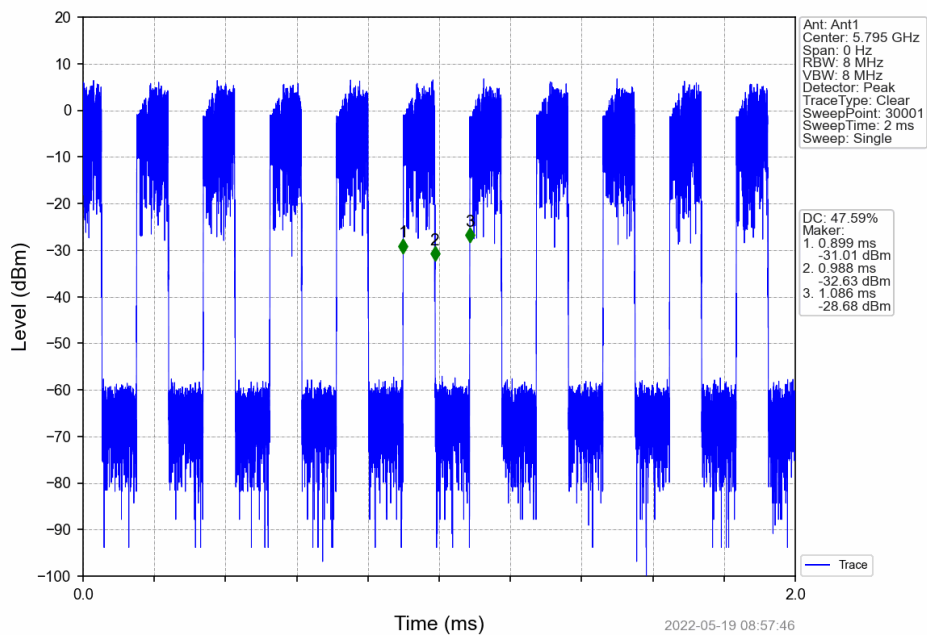
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



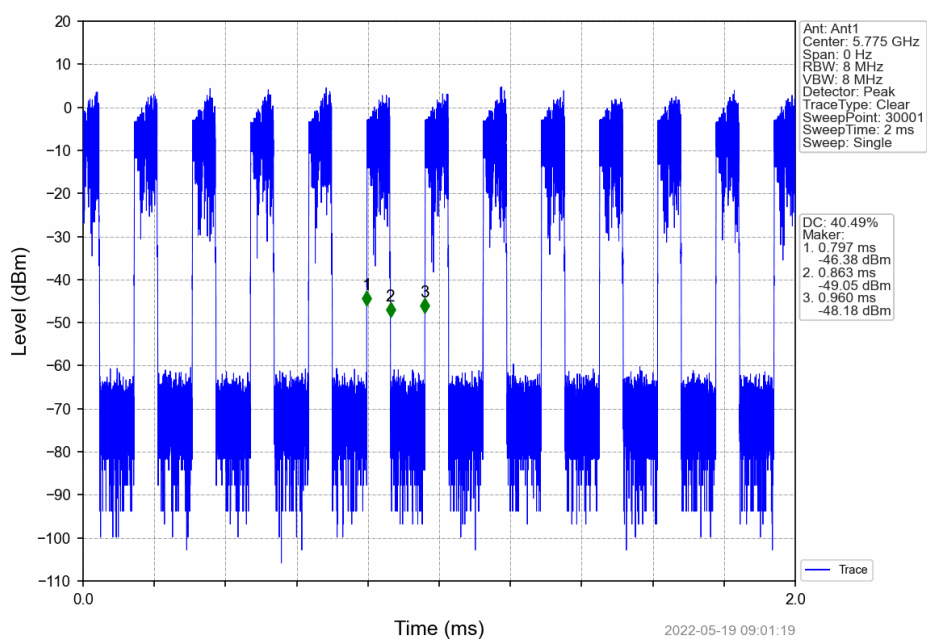
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



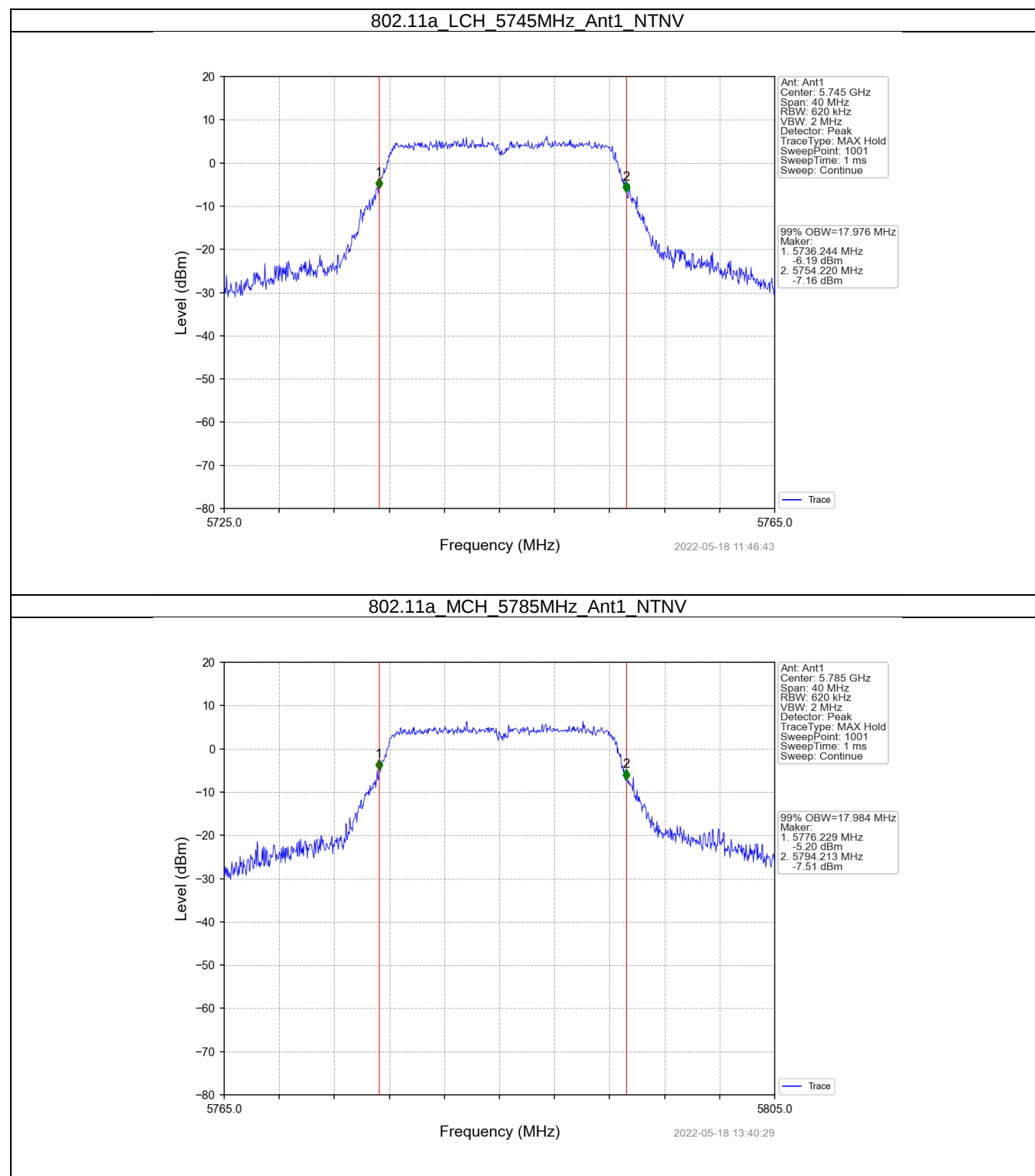
2. Bandwidth

2.1 OBW

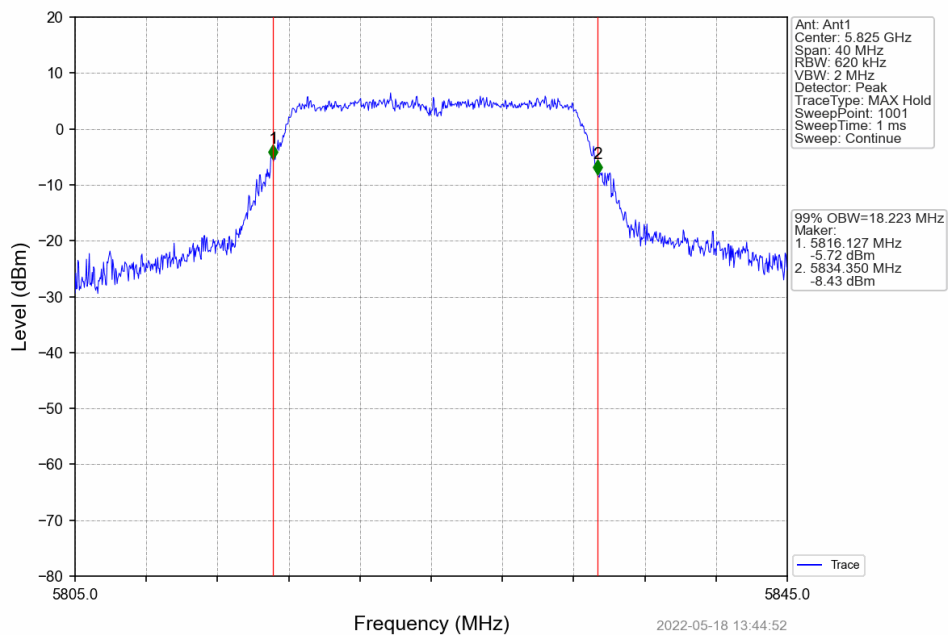
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5745	1	17.976	Pass
		5785	1	17.984	Pass
		5825	1	18.223	Pass
802.11n (HT20)	SISO	5745	1	18.690	Pass
		5785	1	18.691	Pass
		5825	1	18.755	Pass
802.11n (HT40)	SISO	5755	1	37.499	Pass
		5795	1	37.441	Pass
802.11ac (VHT20)	SISO	5745	1	19.545	Pass
		5785	1	19.884	Pass
		5825	1	19.873	Pass
802.11ac (VHT40)	SISO	5755	1	37.195	Pass
		5795	1	36.958	Pass
802.11ac (VHT80)	SISO	5775	1	76.880	Pass

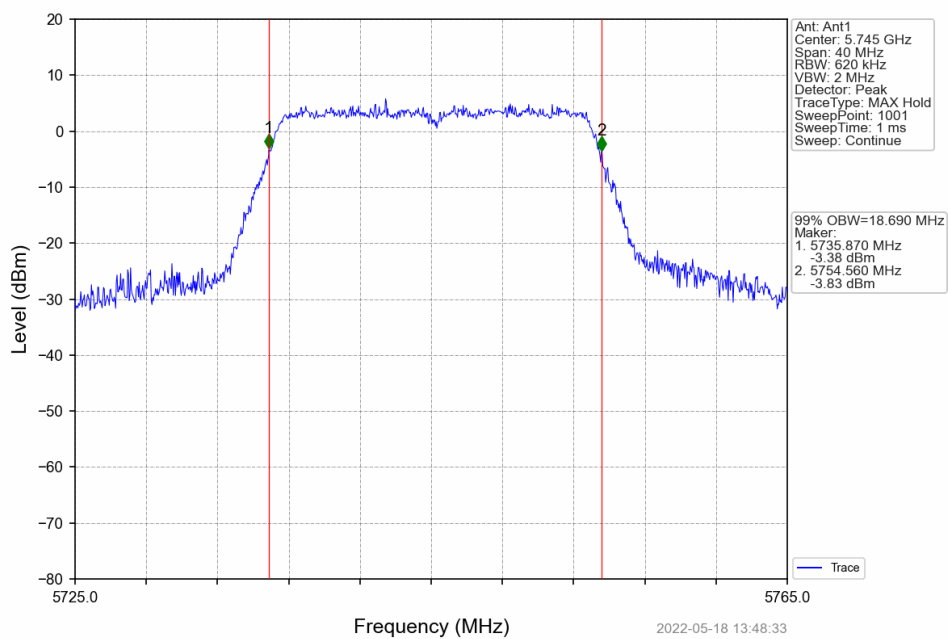
2.1.2 Test Graph



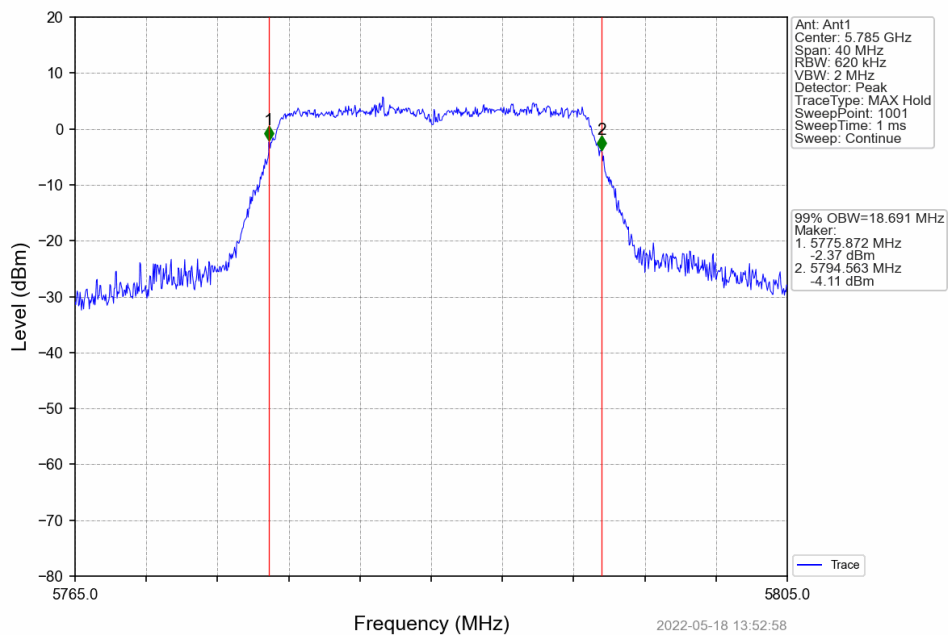
802.11a_HCH_5825MHz_Ant1_NTNV



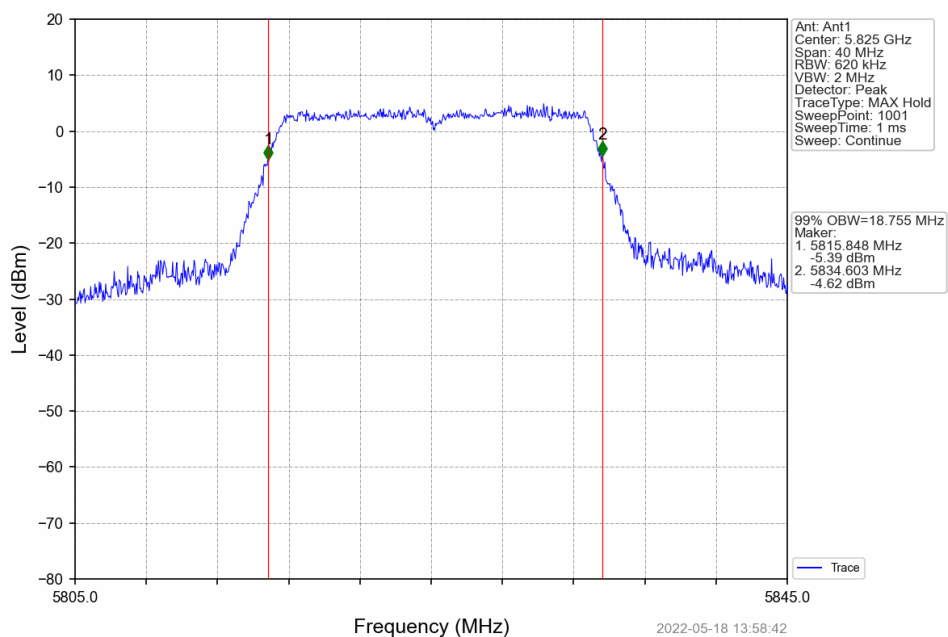
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



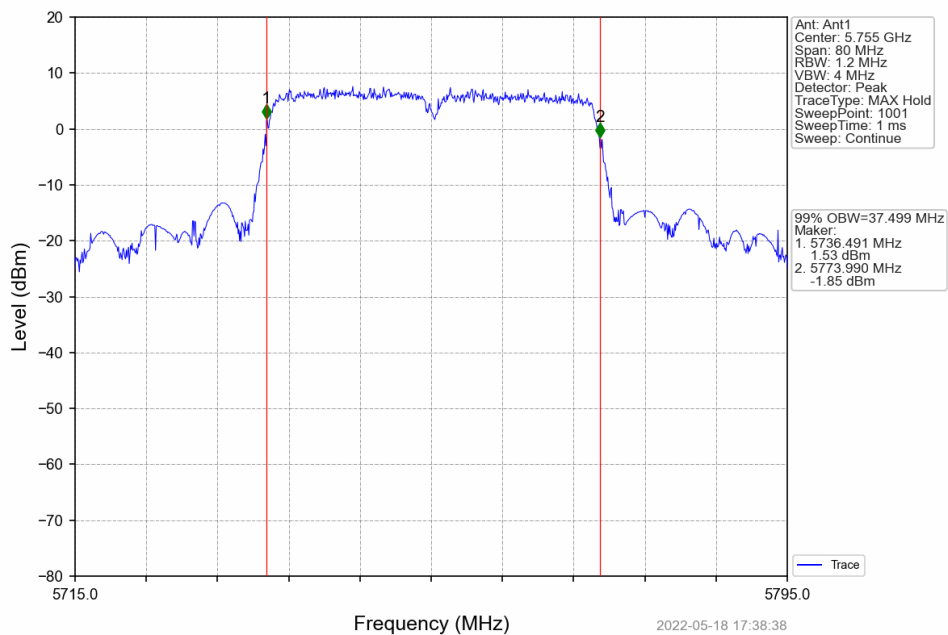
802.11n(HT20) MCH 5785MHz Ant1 NTN



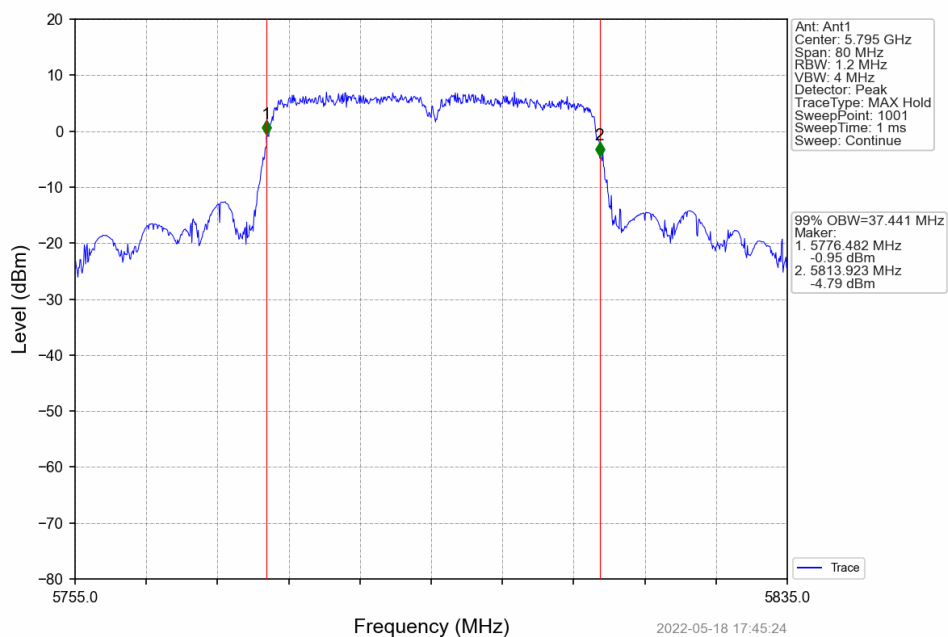
802.11n(HT20)_HCH_5825MHz_Ant1 NTN



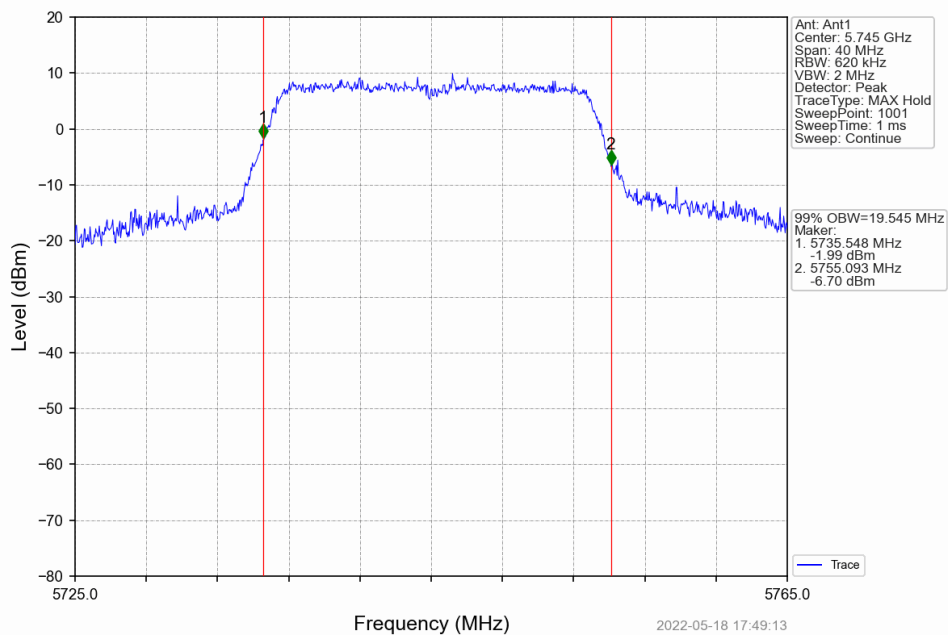
802.11n(HT40) LCH 5755MHz Ant1 NTN



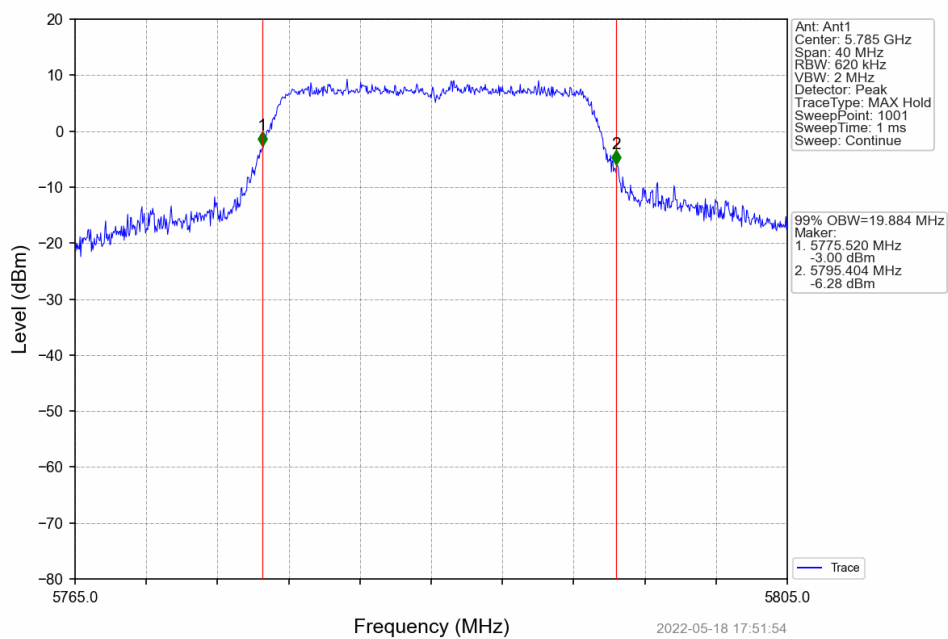
802.11n(HT40)_HCH_5795MHz_Ant1_NTN



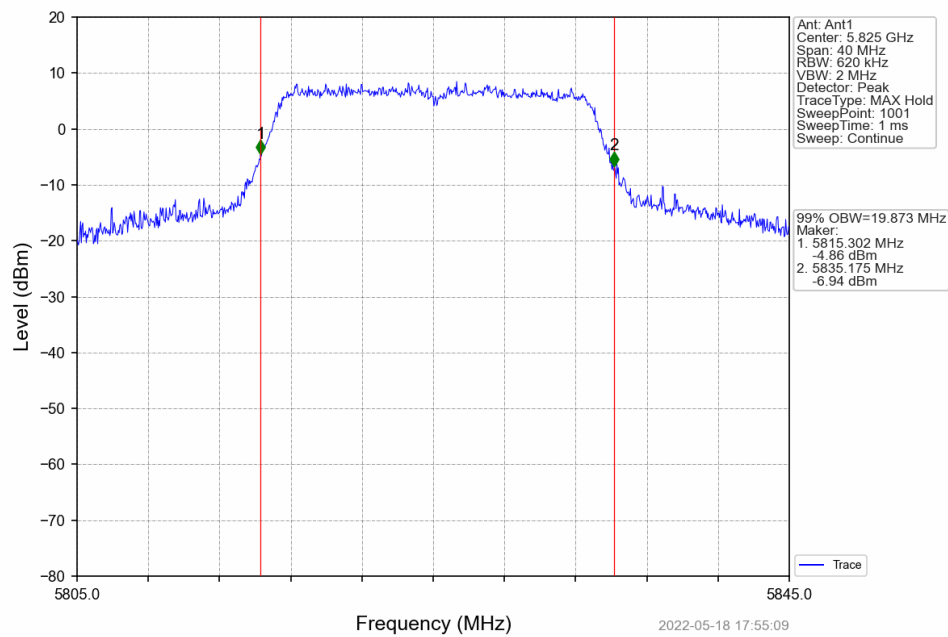
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



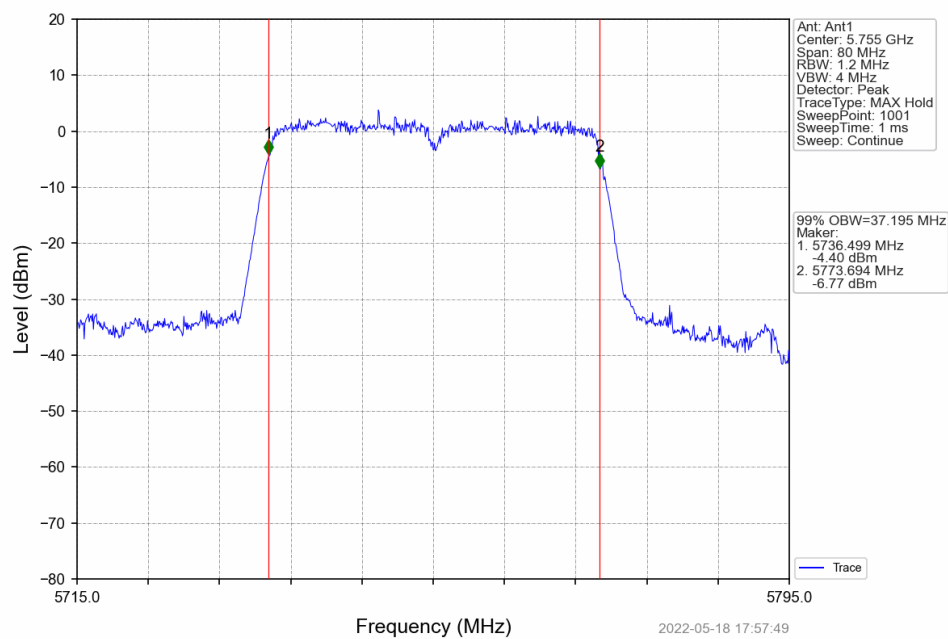
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTN



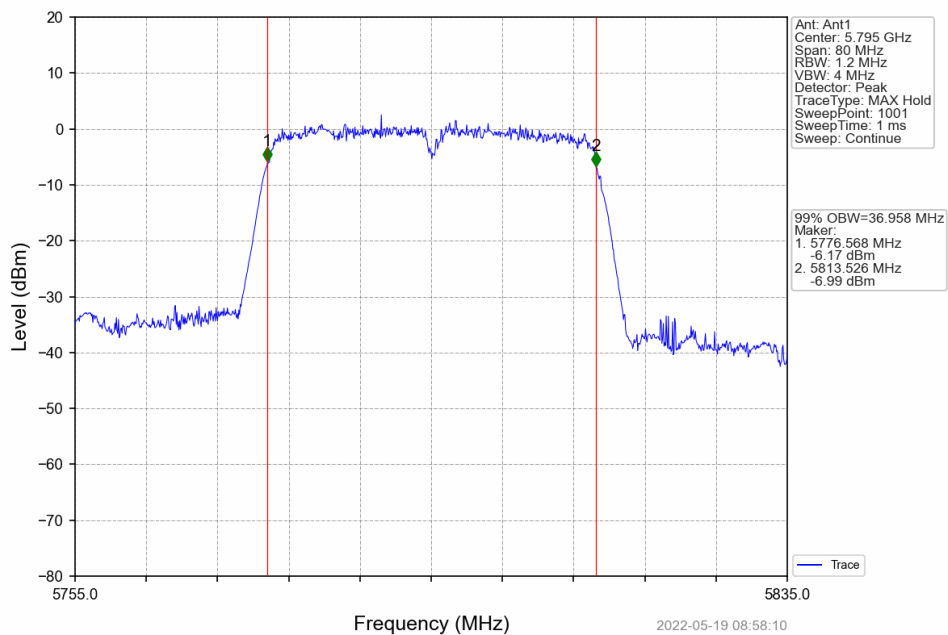
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



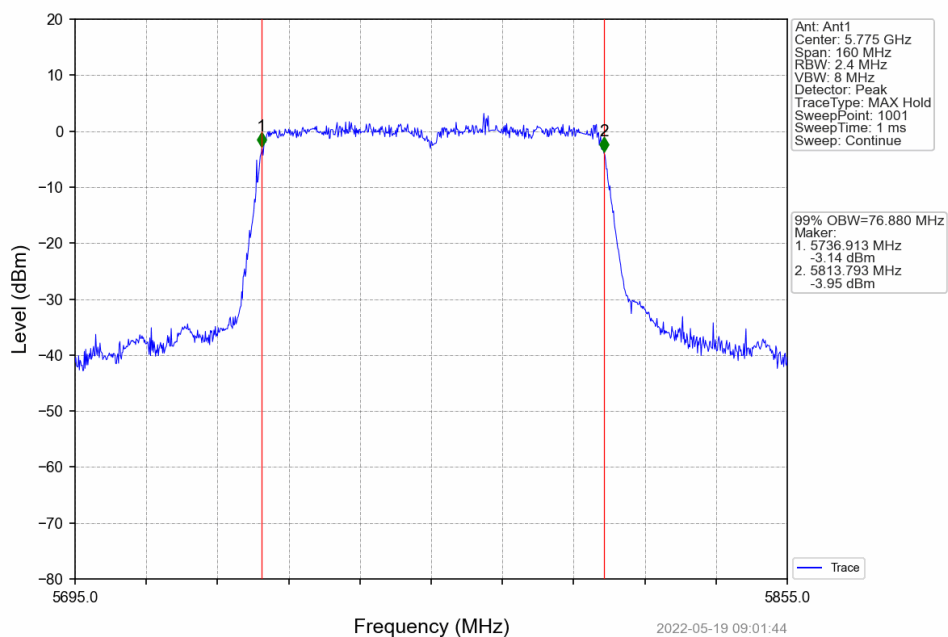
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

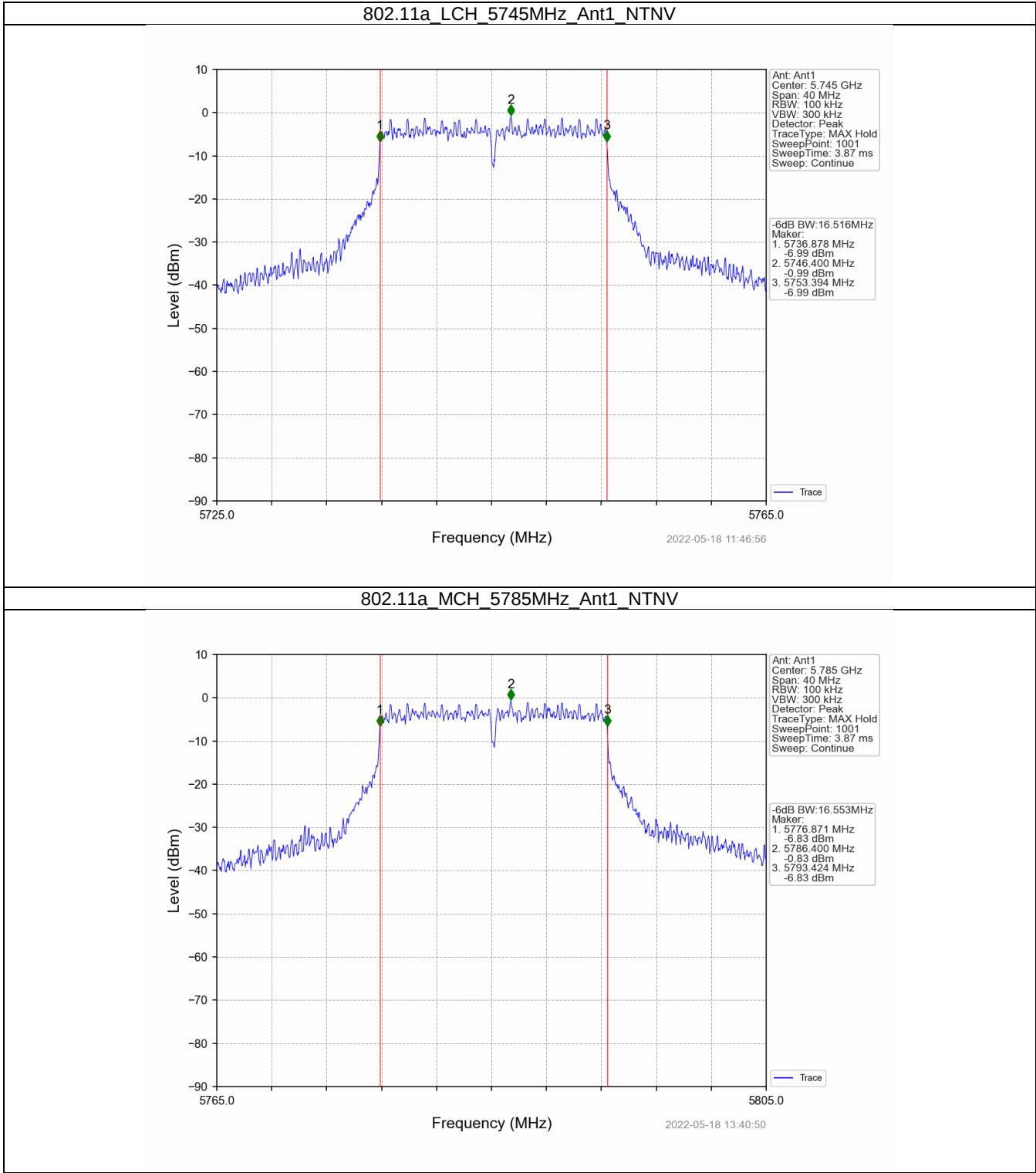


2.2 6dB BW

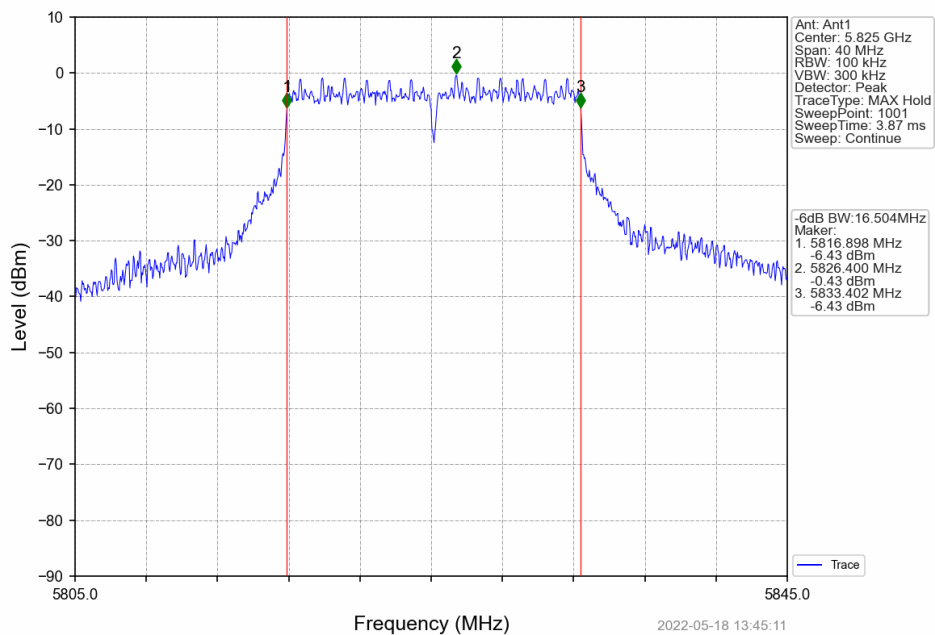
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.516	≥ 0.5	Pass
		5785	1	16.553	≥ 0.5	Pass
		5825	1	16.504	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.752	≥ 0.5	Pass
		5785	1	17.776	≥ 0.5	Pass
		5825	1	17.762	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.515	≥ 0.5	Pass
		5795	1	36.425	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.730	≥ 0.5	Pass
		5785	1	17.716	≥ 0.5	Pass
		5825	1	17.729	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.486	≥ 0.5	Pass
		5795	1	36.399	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	76.407	≥ 0.5	Pass

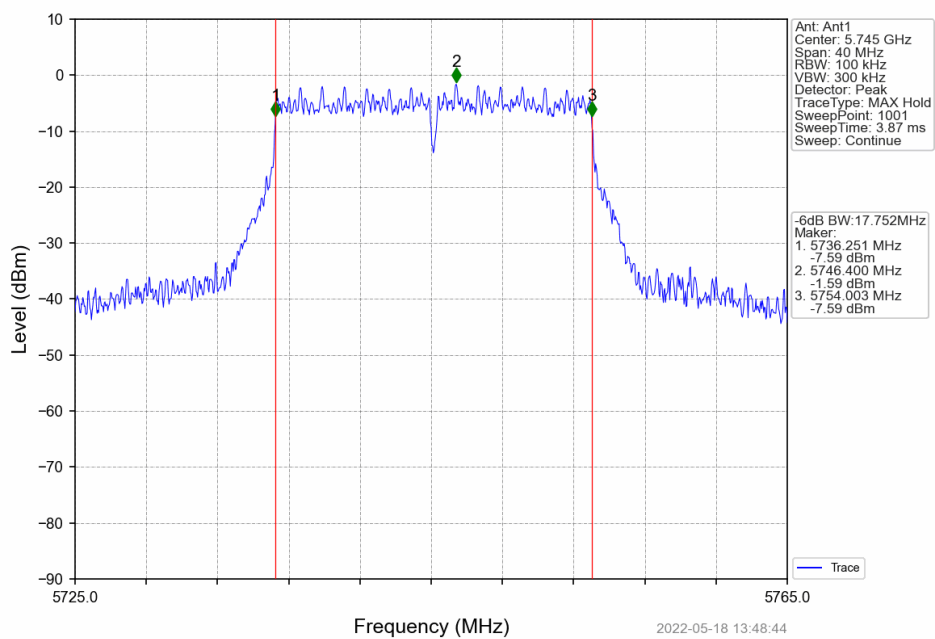
2.2.2 Test Graph



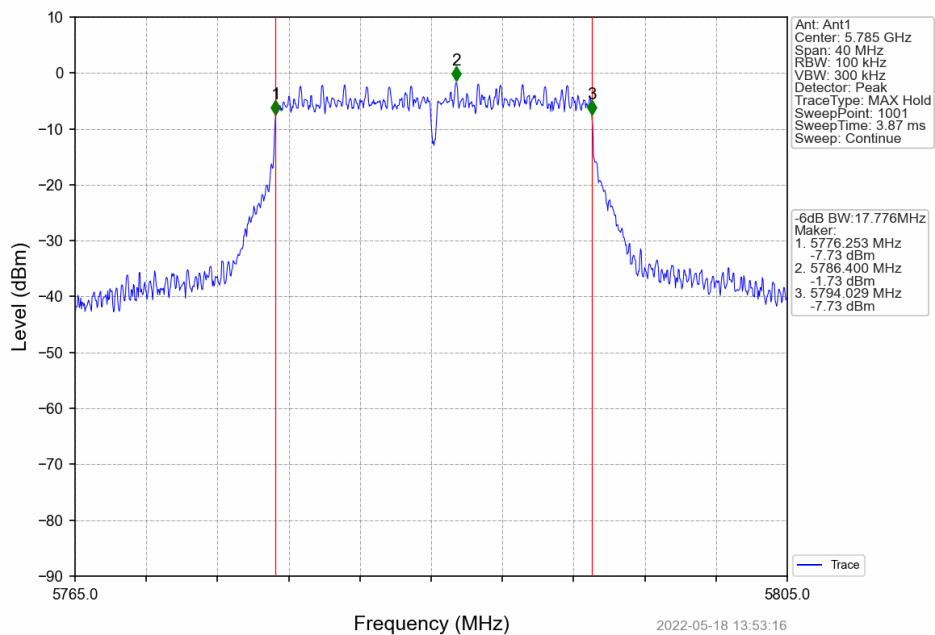
802.11a HCH 5825MHz Ant1 NTN



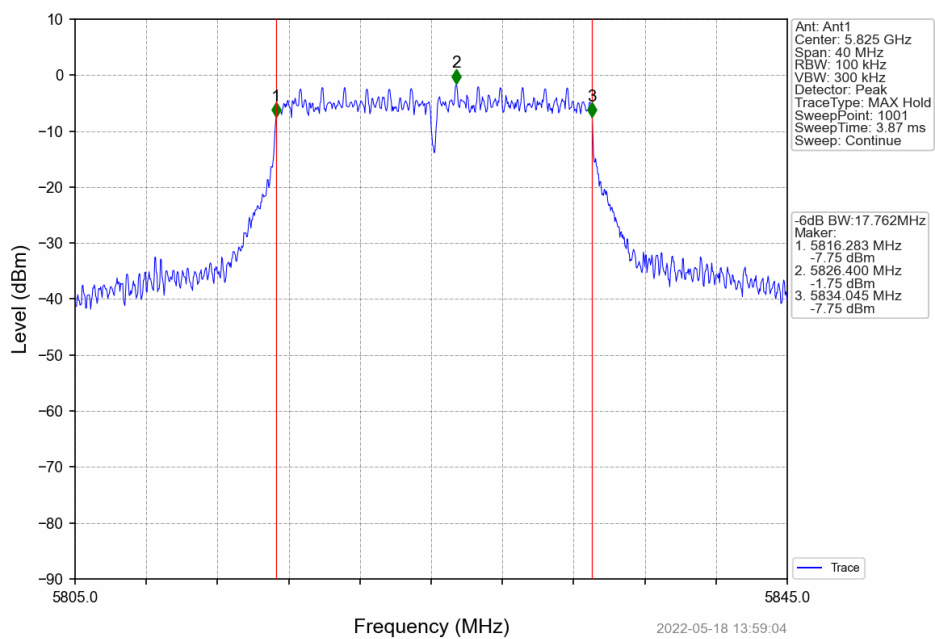
802.11n(HT20) LCH 5745MHz Ant1 NTN



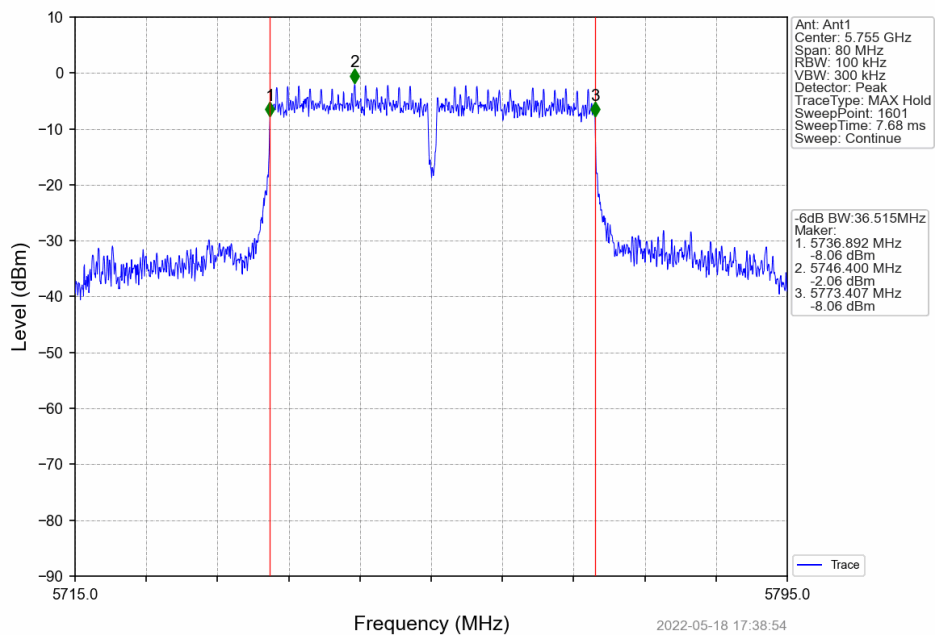
802.11n(HT20) MCH 5785MHz Ant1 NTN



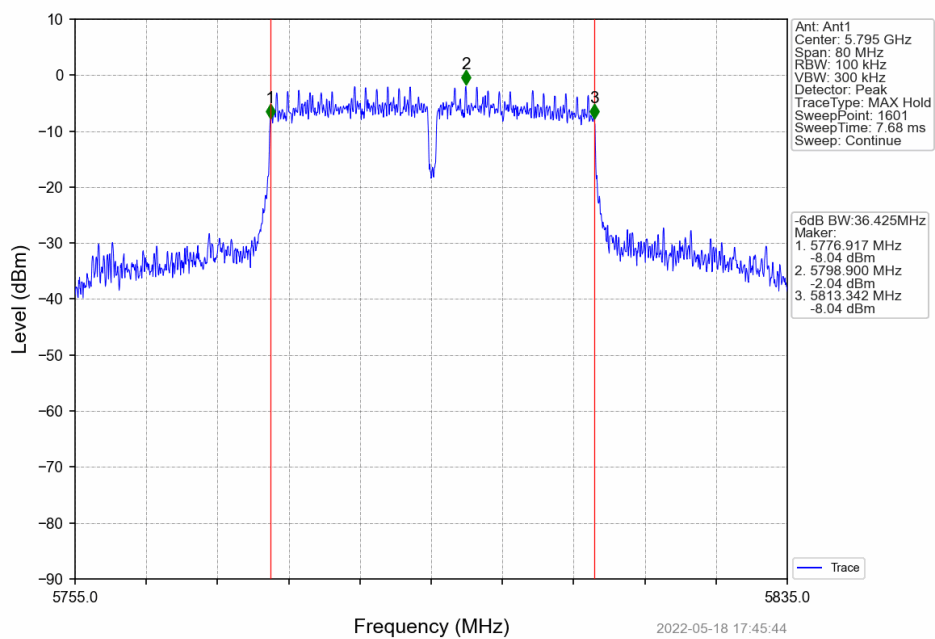
802.11n(HT20)_HCH_5825MHz_Ant1_NTN



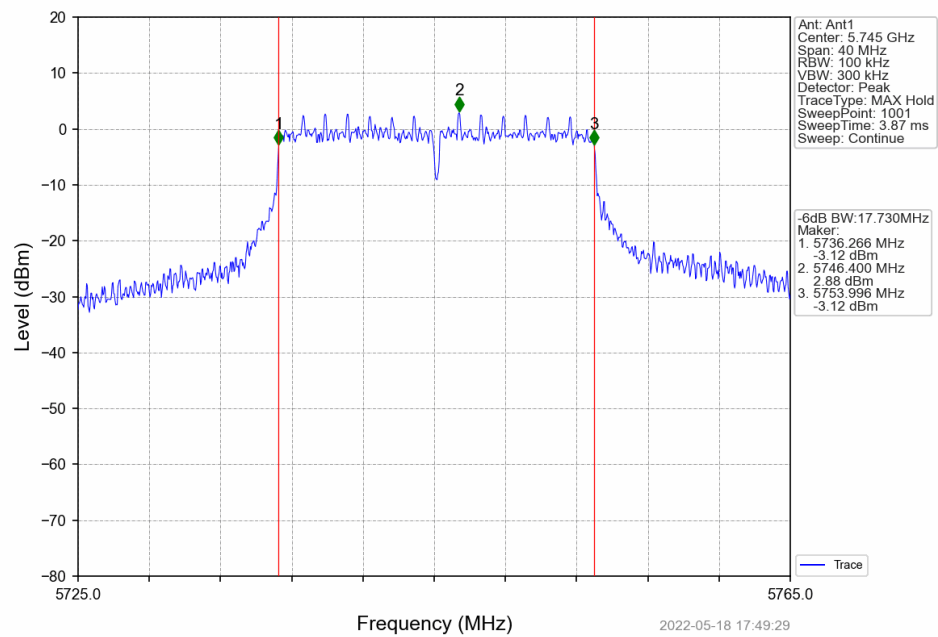
802.11n(HT40) LCH 5755MHz Ant1 NTN



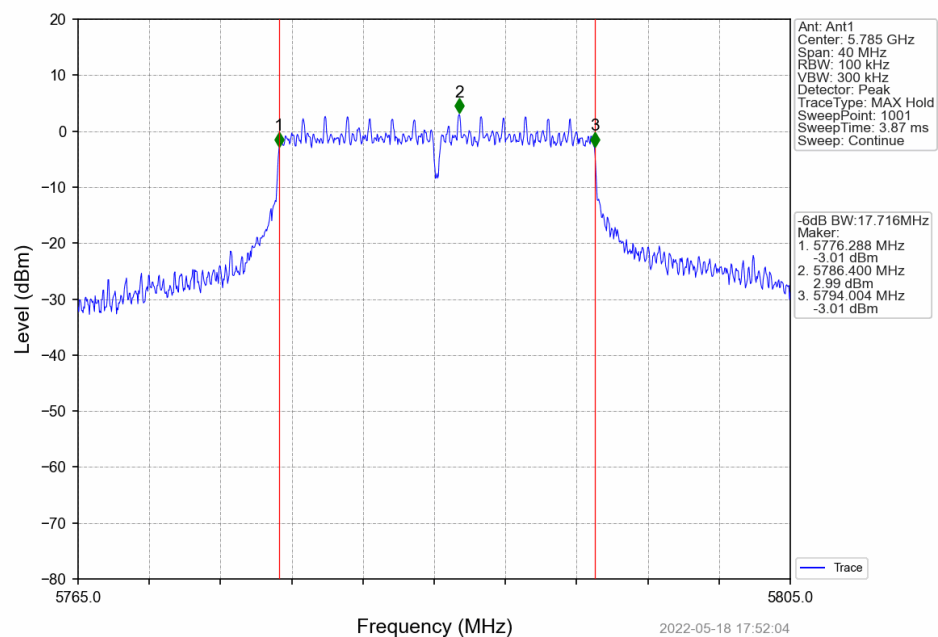
802.11n(HT40)_HCH_5795MHz_Ant1_NTN



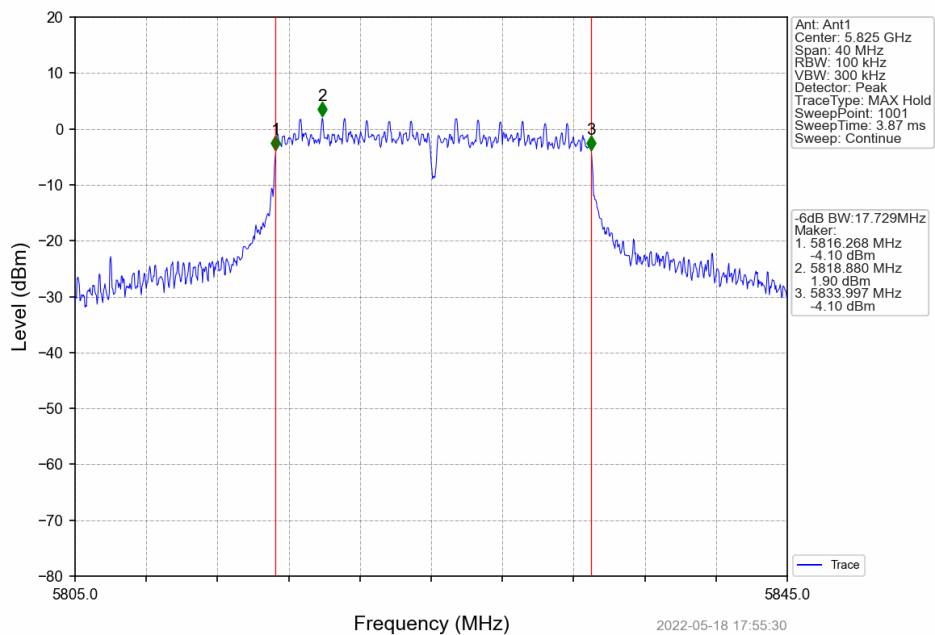
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



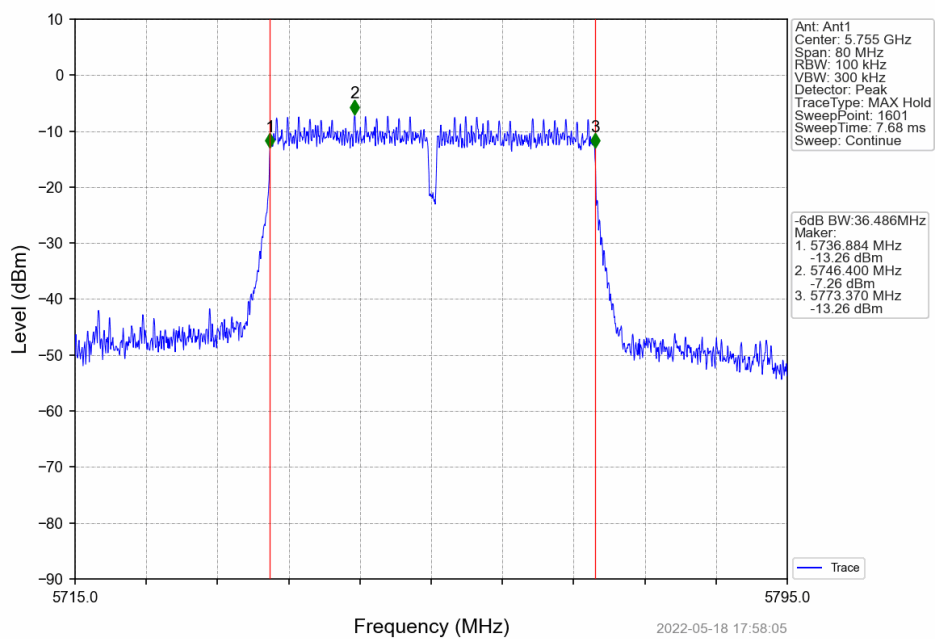
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTN



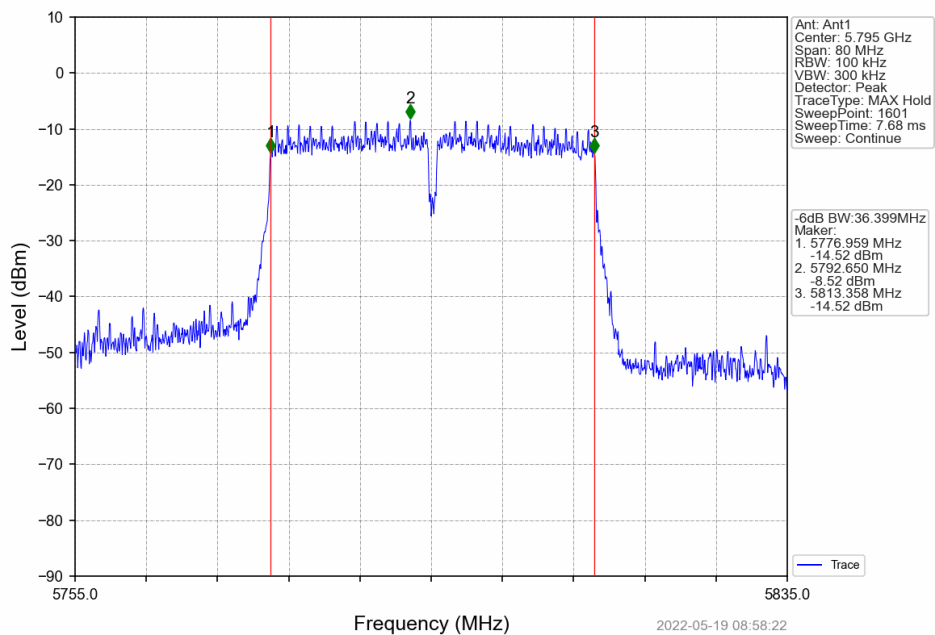
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



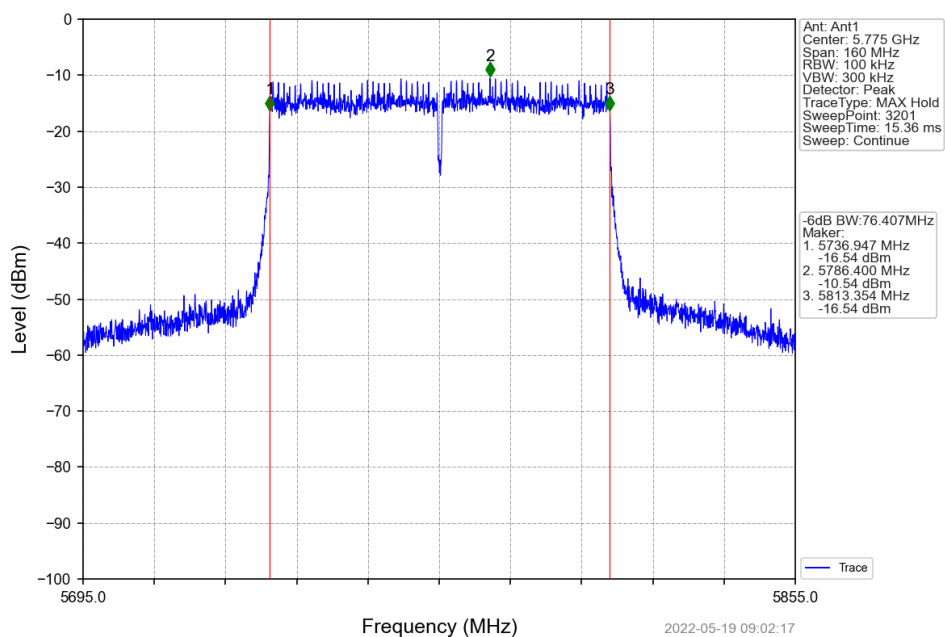
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTN



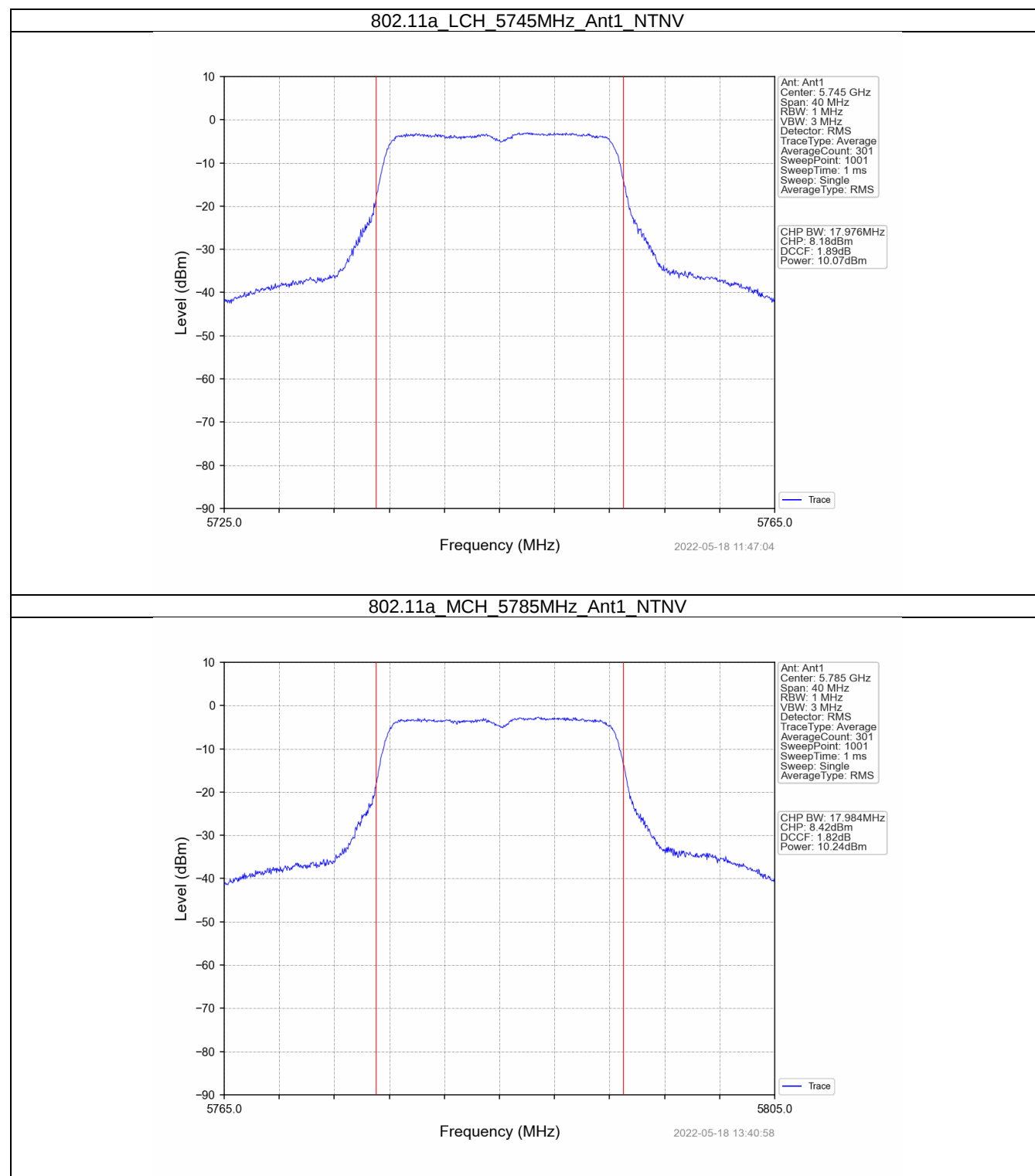
3. Maximum Conducted Output Power

3.1 Power

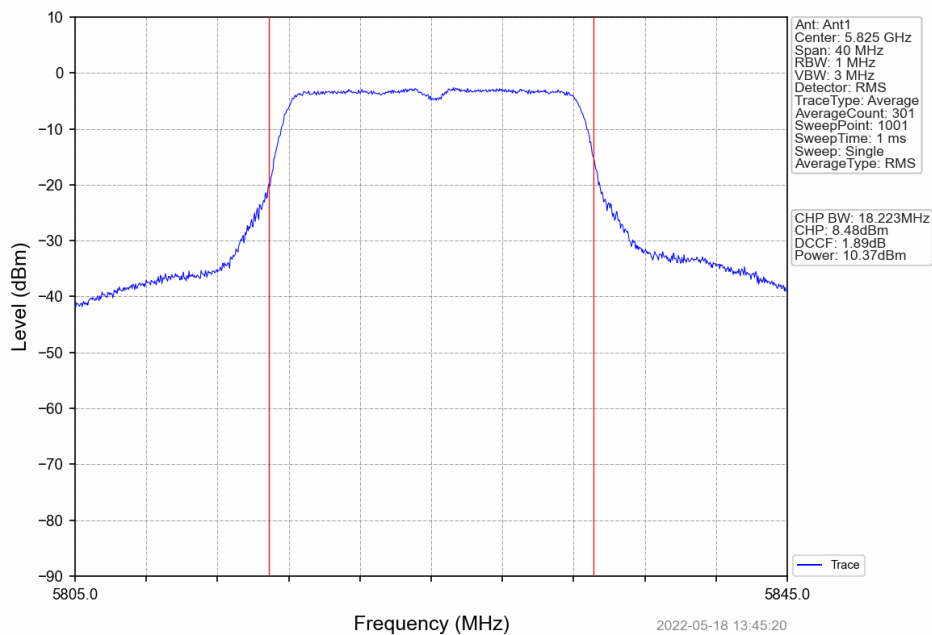
3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	10.07	<=30	Pass
		5785	10.24	<=30	Pass
		5825	10.37	<=30	Pass
802.11n (HT20)	SISO	5745	9.57	<=30	Pass
		5785	9.46	<=30	Pass
		5825	9.27	<=30	Pass
802.11n (HT40)	SISO	5755	11.86	<=30	Pass
		5795	11.53	<=30	Pass
802.11ac (VHT20)	SISO	5745	13.73	<=30	Pass
		5785	13.70	<=30	Pass
		5825	12.69	<=30	Pass
802.11ac (VHT40)	SISO	5755	7.04	<=30	Pass
		5795	5.31	<=30	Pass
802.11ac (VHT80)	SISO	5775	5.93	<=30	Pass

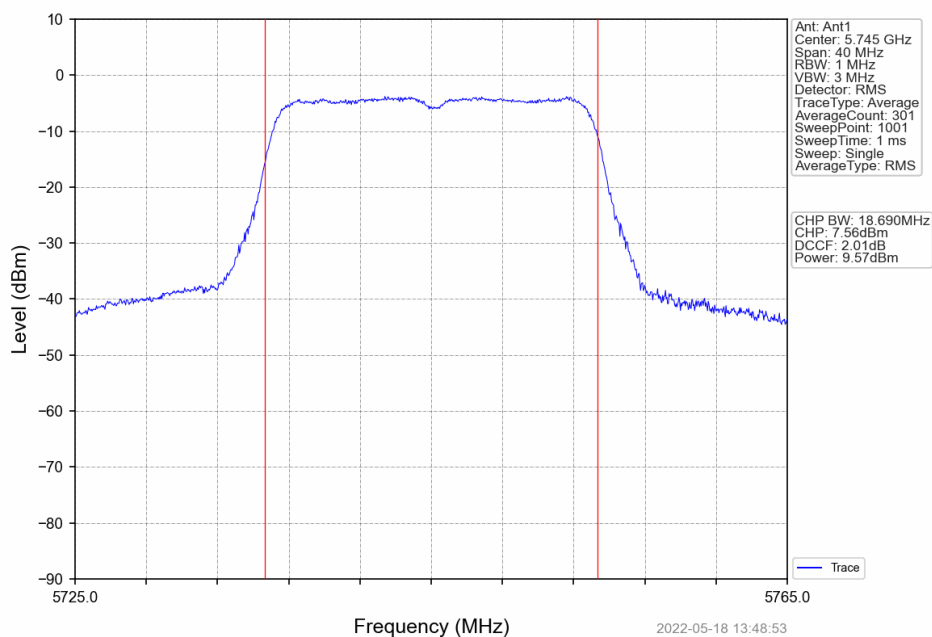
3.1.2 Test Graph



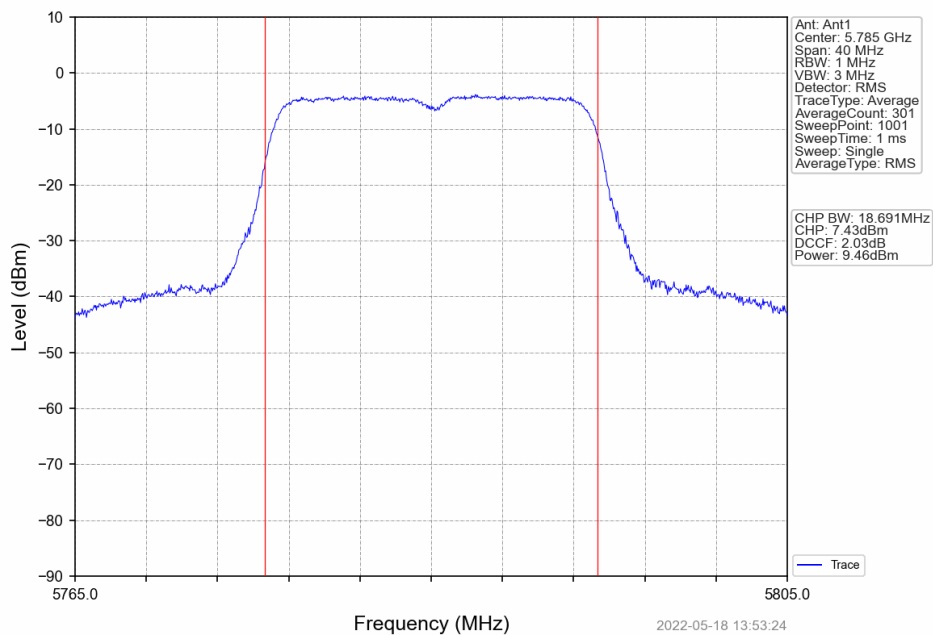
802.11a HCH 5825MHz Ant1 NTN



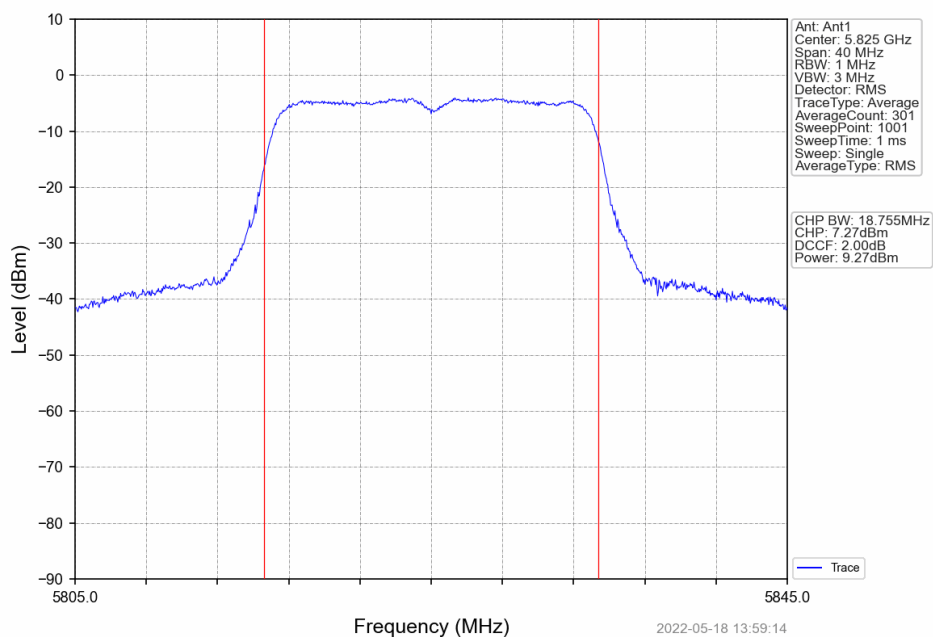
802.11n(HT20) LCH 5745MHz Ant1 NTN



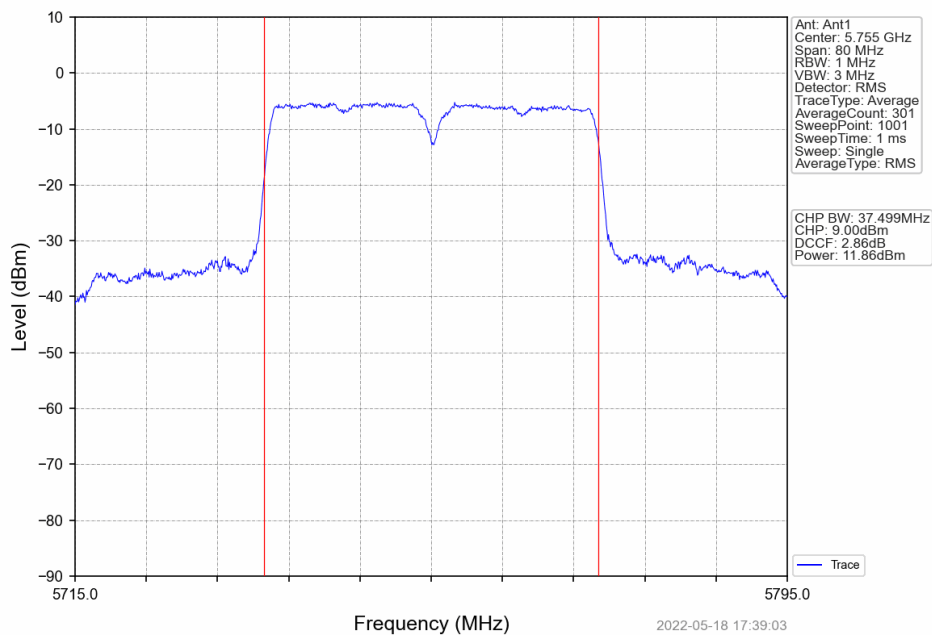
802.11n(HT20) MCH 5785MHz Ant1 NTN



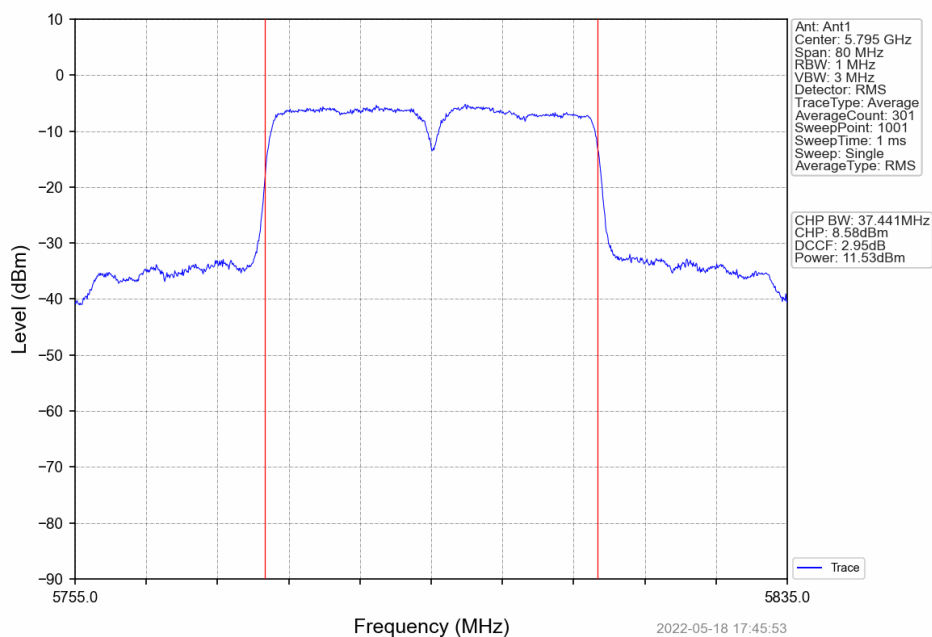
802.11n(HT20)_HCH_5825MHz_Ant1_NTN



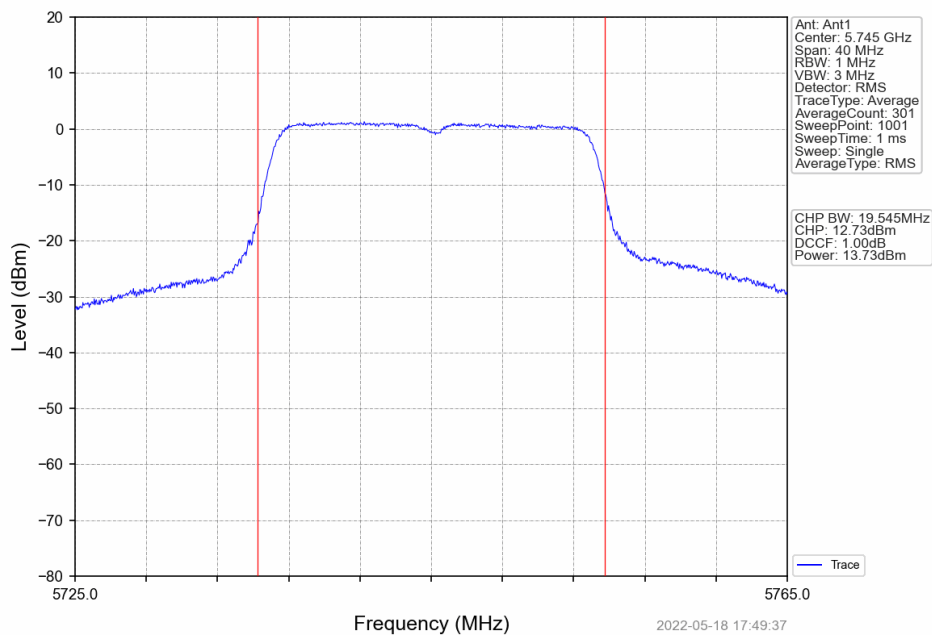
802.11n(HT40) LCH 5755MHz Ant1 NTN



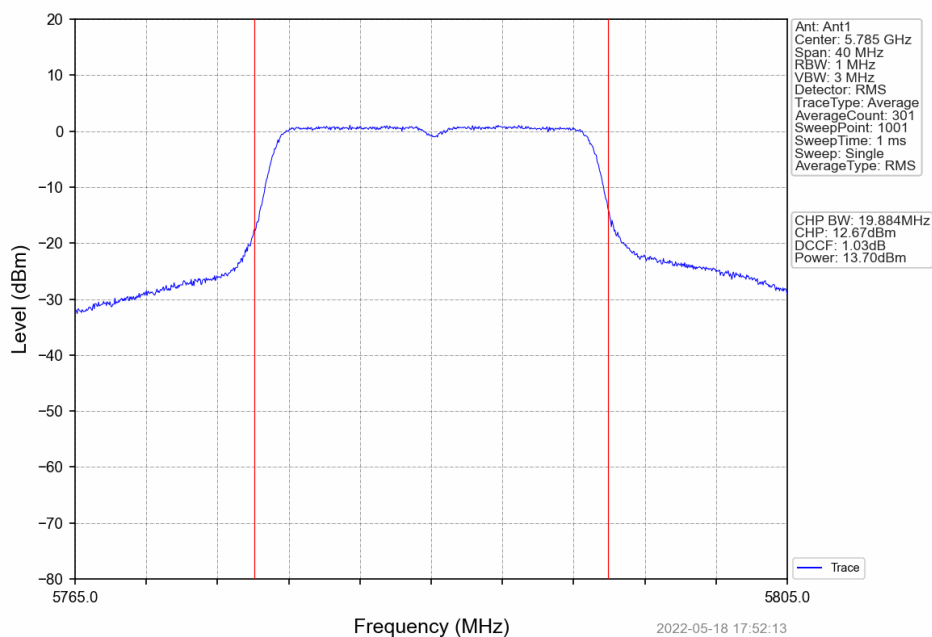
802.11n(HT40)_HCH_5795MHz_Ant1_NTN



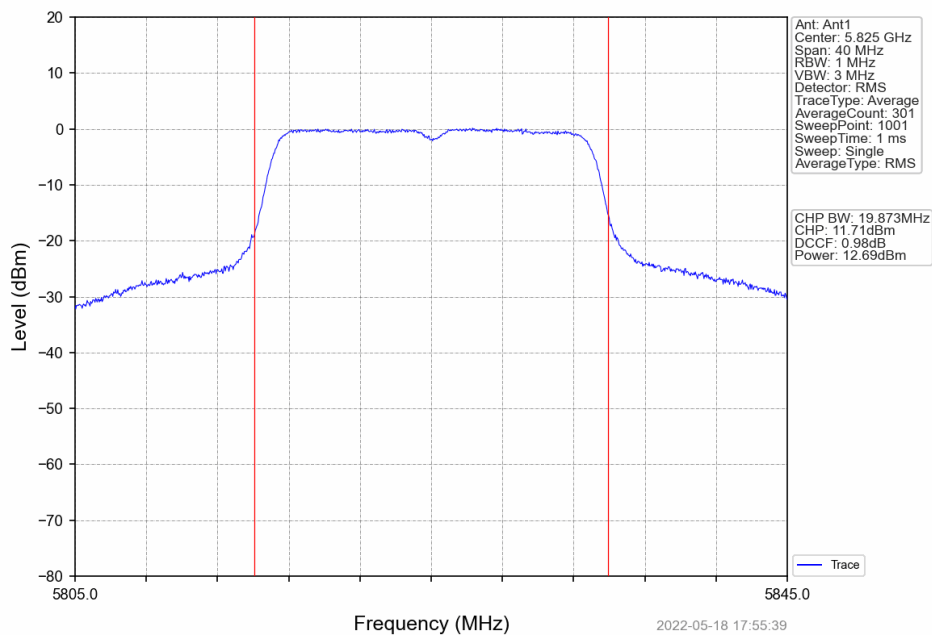
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



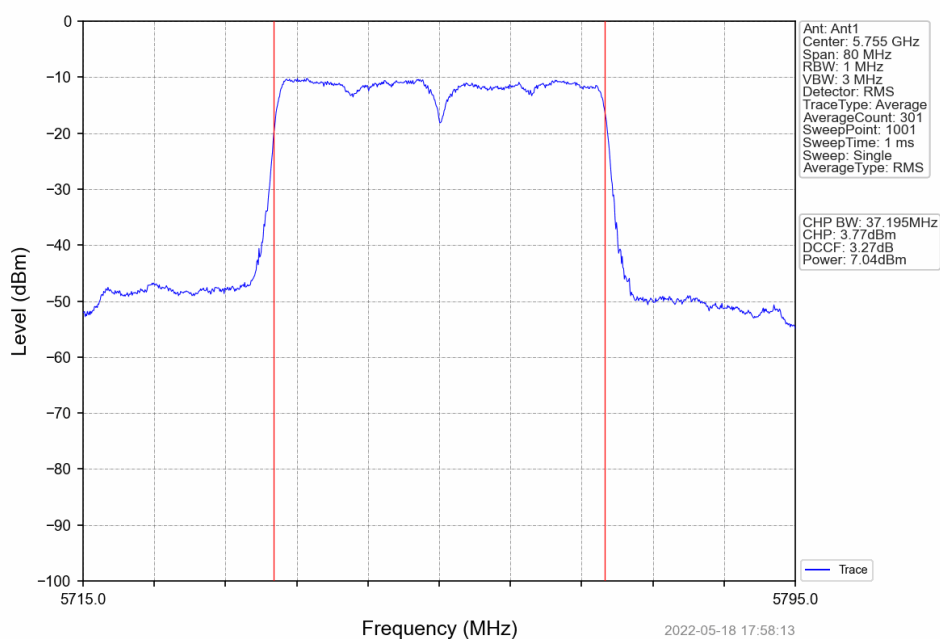
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



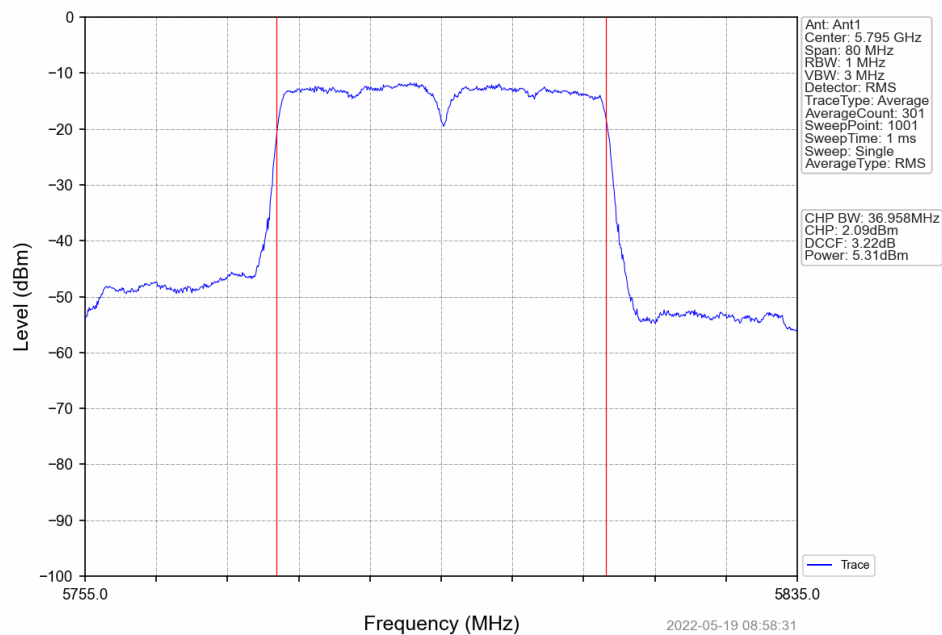
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



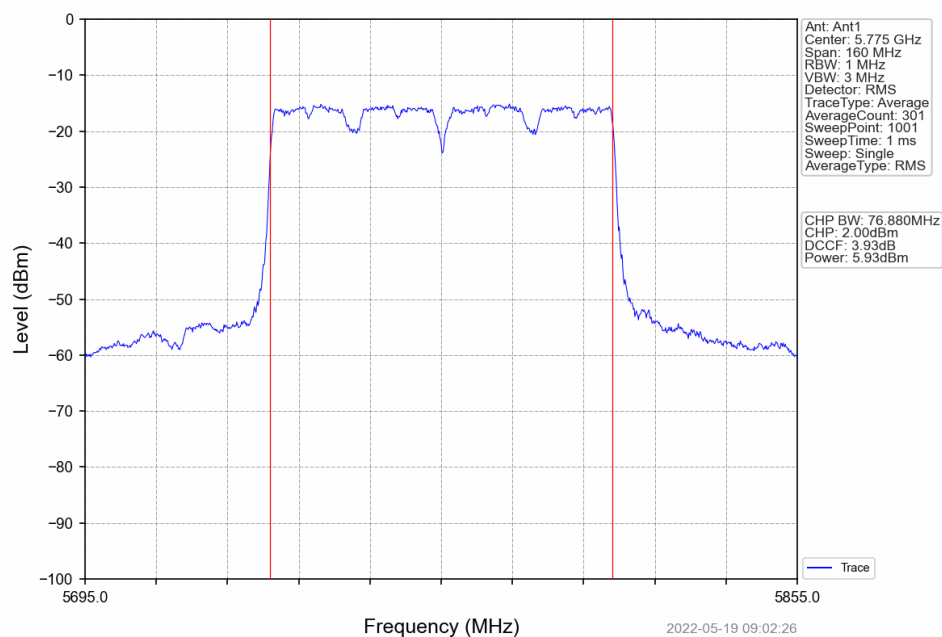
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTN



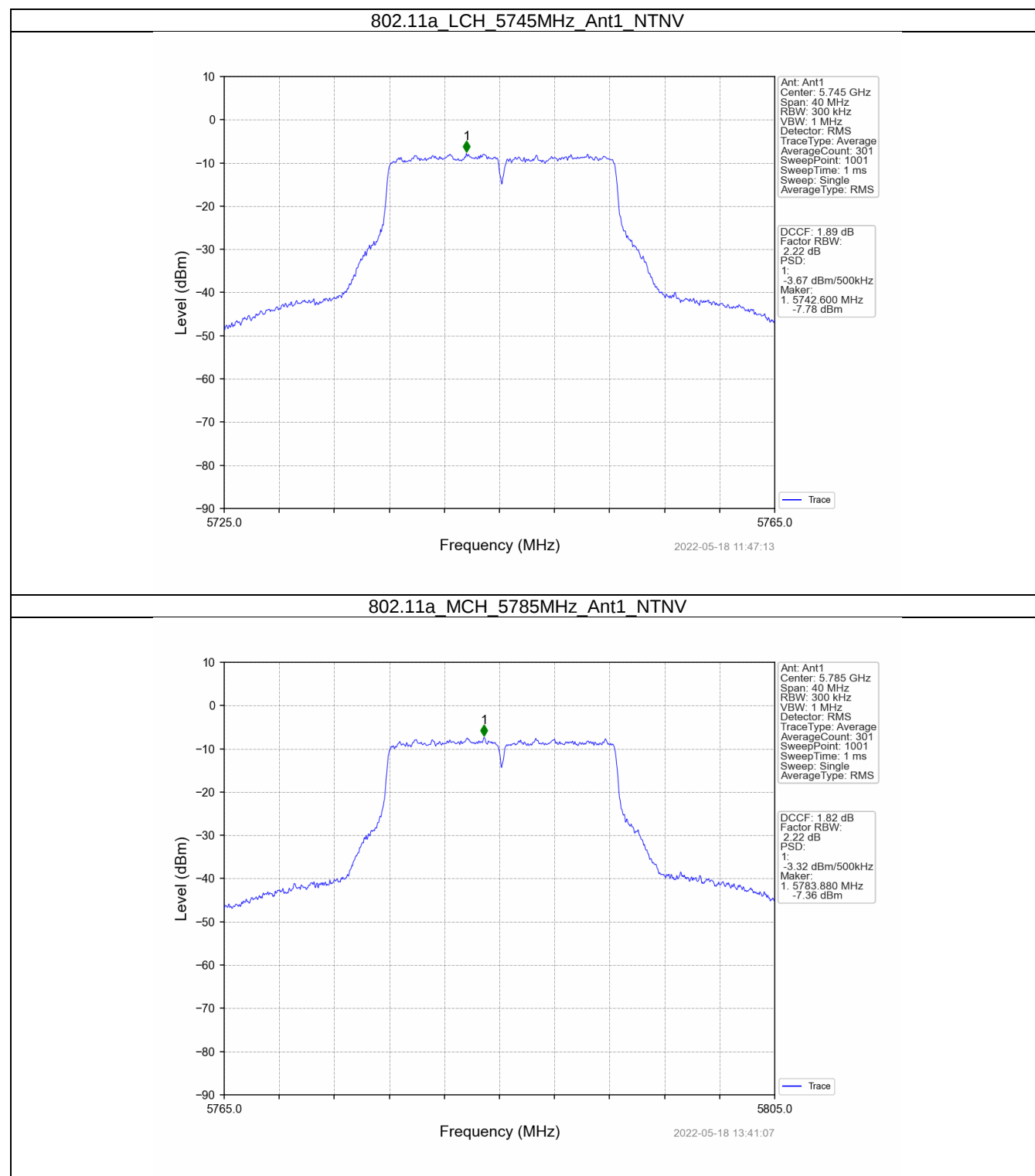
4. Maximum Power Spectral Density

4.1 PSD-Band3

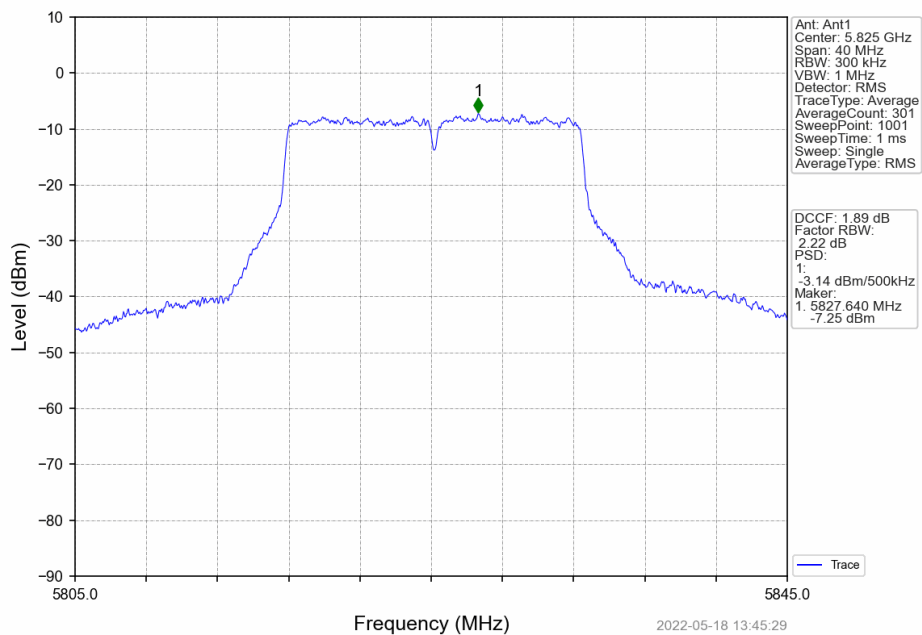
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-3.67	<=30	Pass
		5785	-3.32	<=30	Pass
		5825	-3.14	<=30	Pass
802.11n (HT20)	SISO	5745	-4.03	<=30	Pass
		5785	-4.12	<=30	Pass
		5825	-4.20	<=30	Pass
802.11n (HT40)	SISO	5755	-4.45	<=30	Pass
		5795	-3.97	<=30	Pass
802.11ac (VHT20)	SISO	5745	-0.68	<=30	Pass
		5785	-0.62	<=30	Pass
		5825	-1.16	<=30	Pass
802.11ac (VHT40)	SISO	5755	-9.04	<=30	Pass
		5795	-10.18	<=30	Pass
802.11ac (VHT80)	SISO	5775	-12.40	<=30	Pass

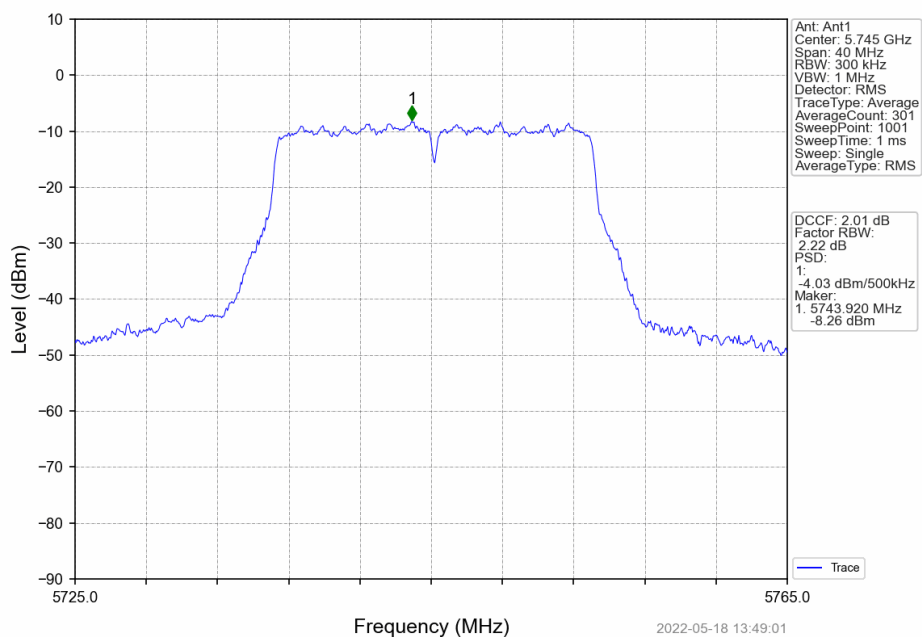
4.1.2 Test Graph



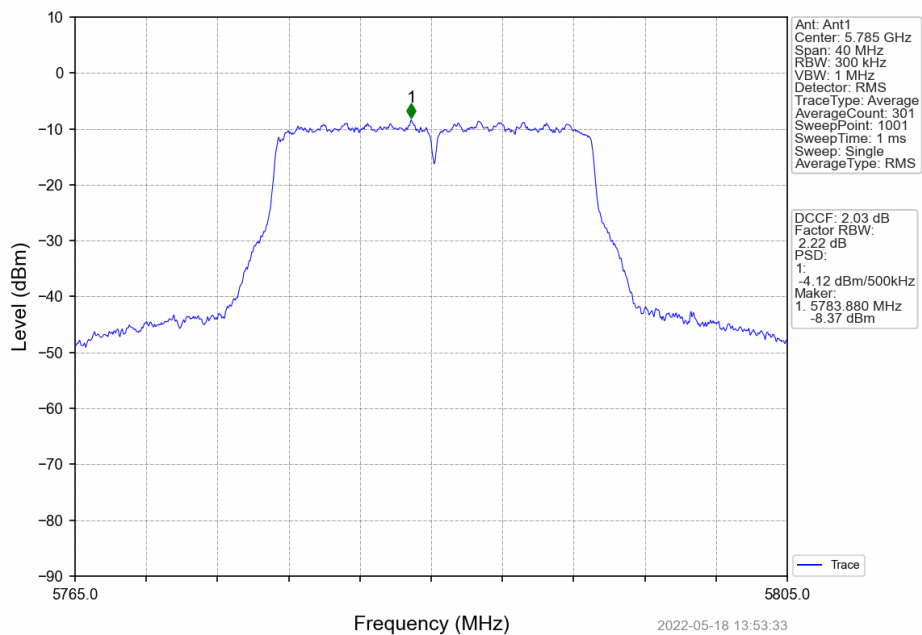
802.11a HCH 5825MHz Ant1 NTN



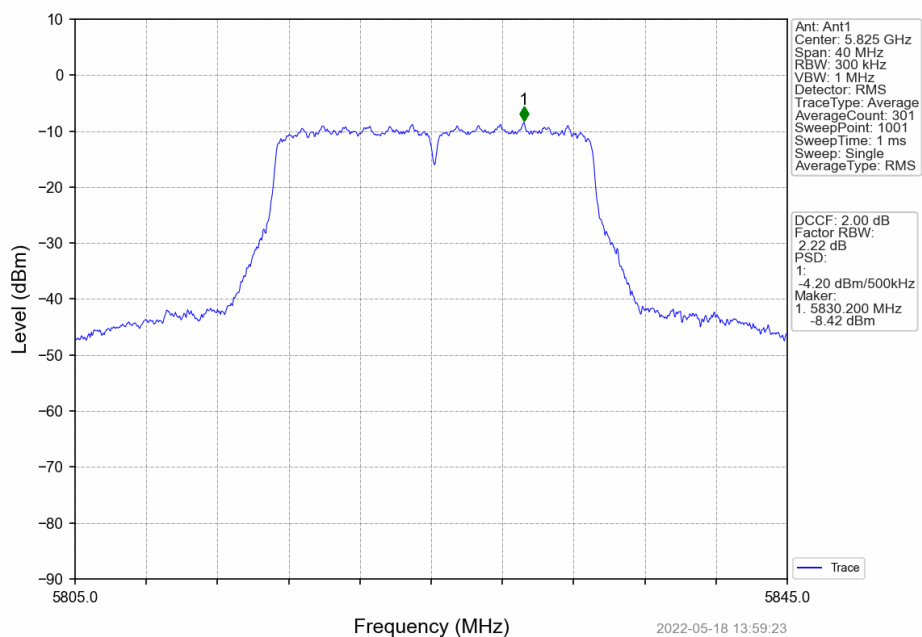
802.11n(HT20) LCH 5745MHz Ant1 NTN



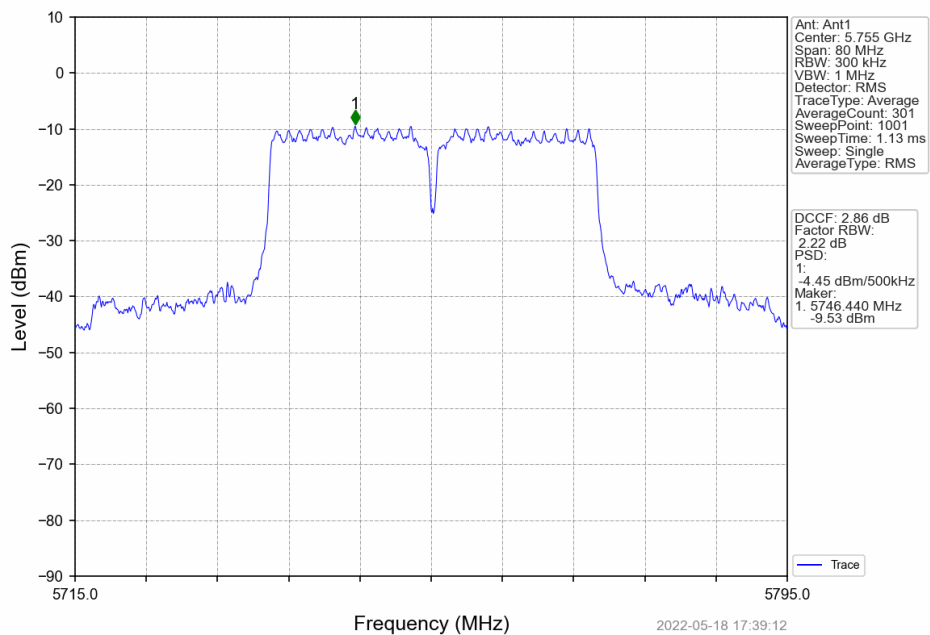
802.11n(HT20) MCH 5785MHz Ant1 NTN



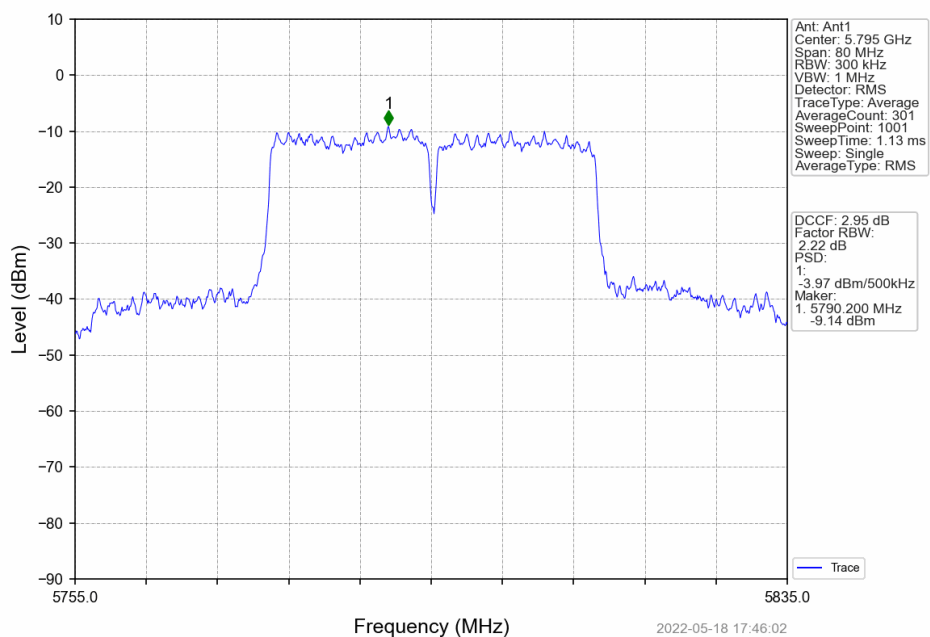
802.11n(HT20)_HCH_5825MHz_Ant1_NTN



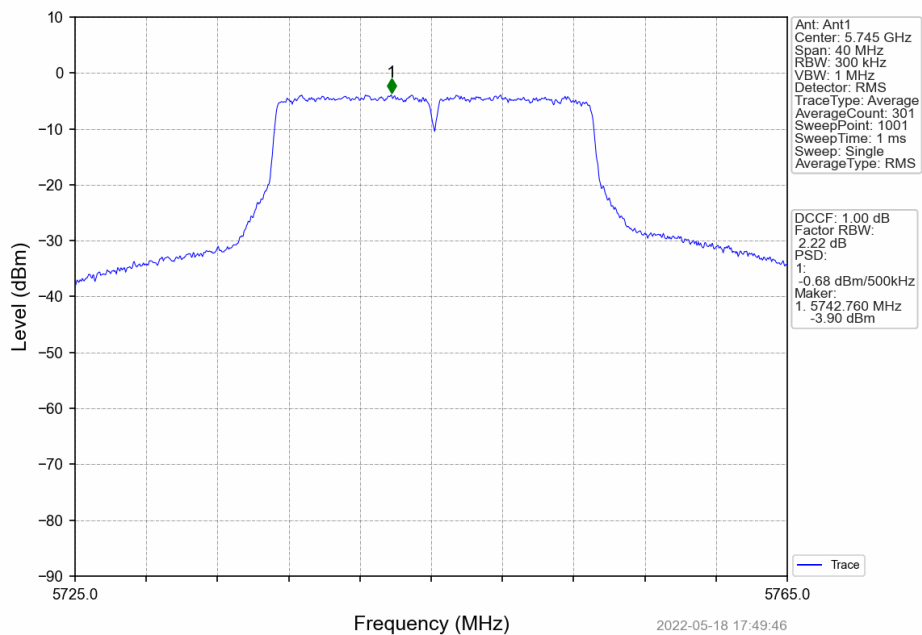
802.11n(HT40) LCH 5755MHz Ant1 NTN



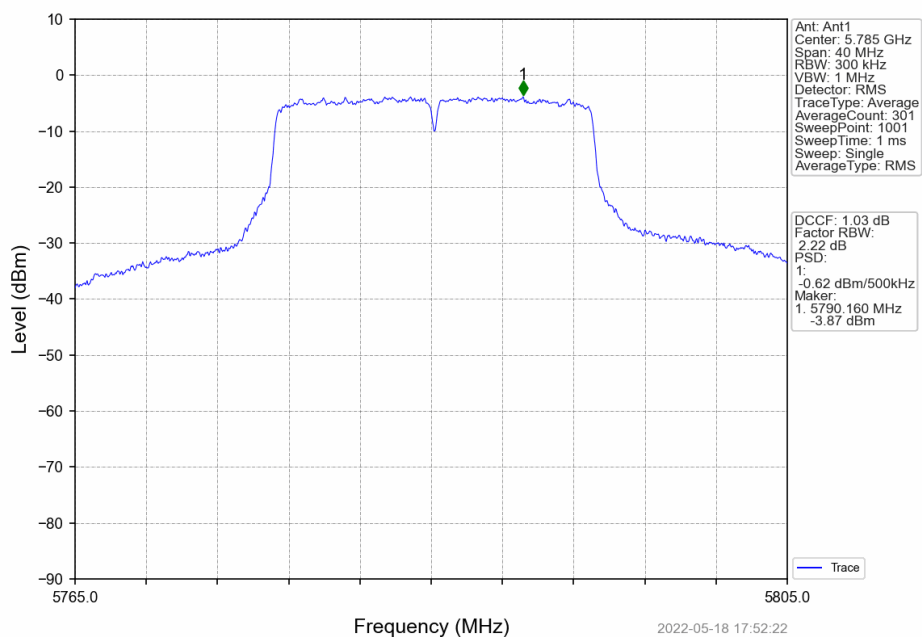
802.11n(HT40)_HCH_5795MHz_Ant1_NTN



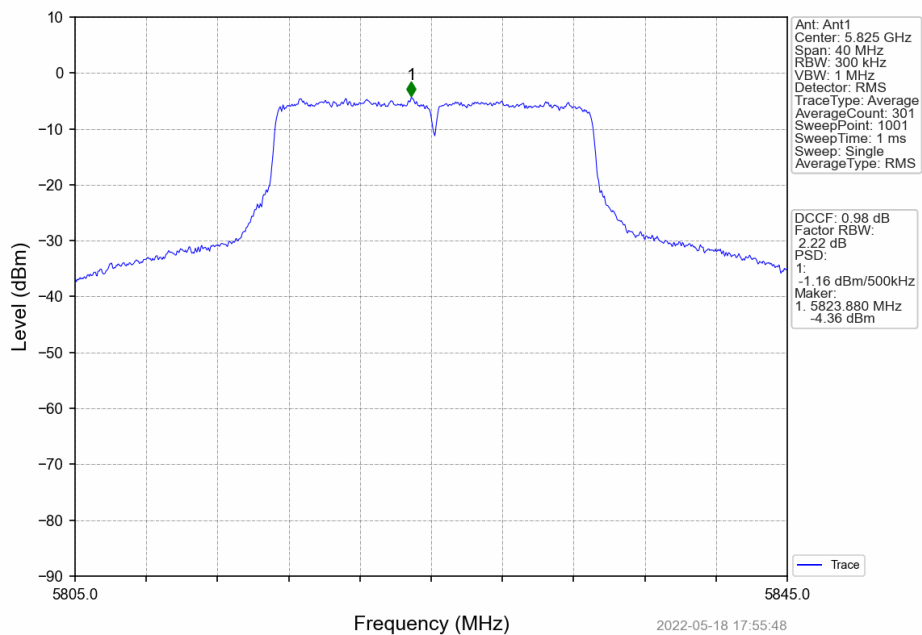
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



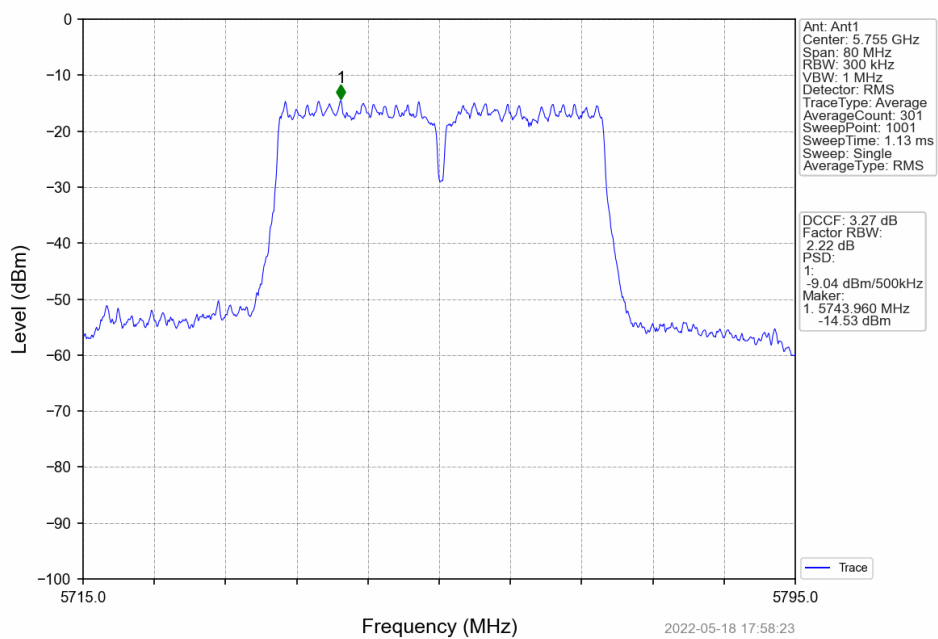
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



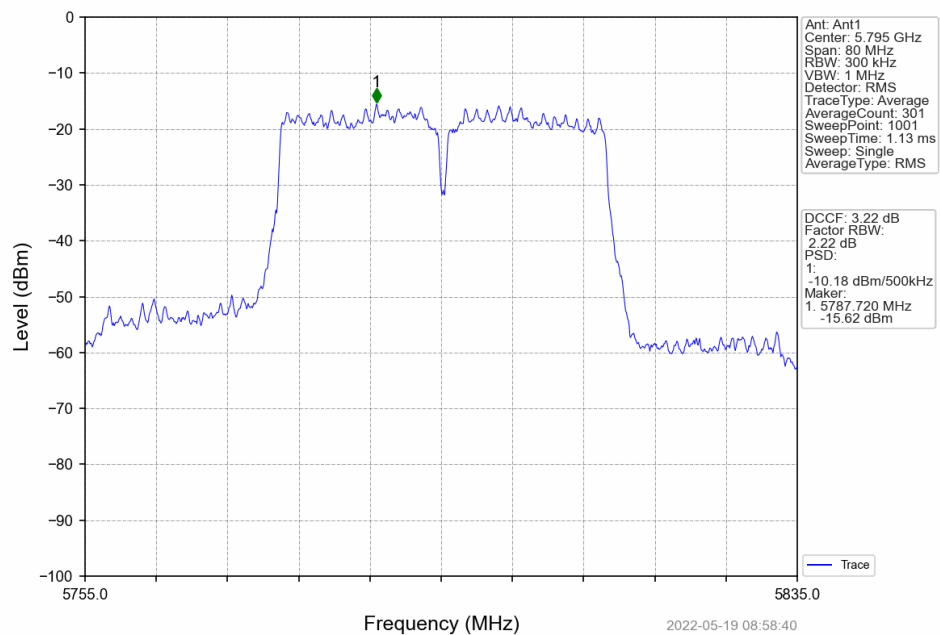
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



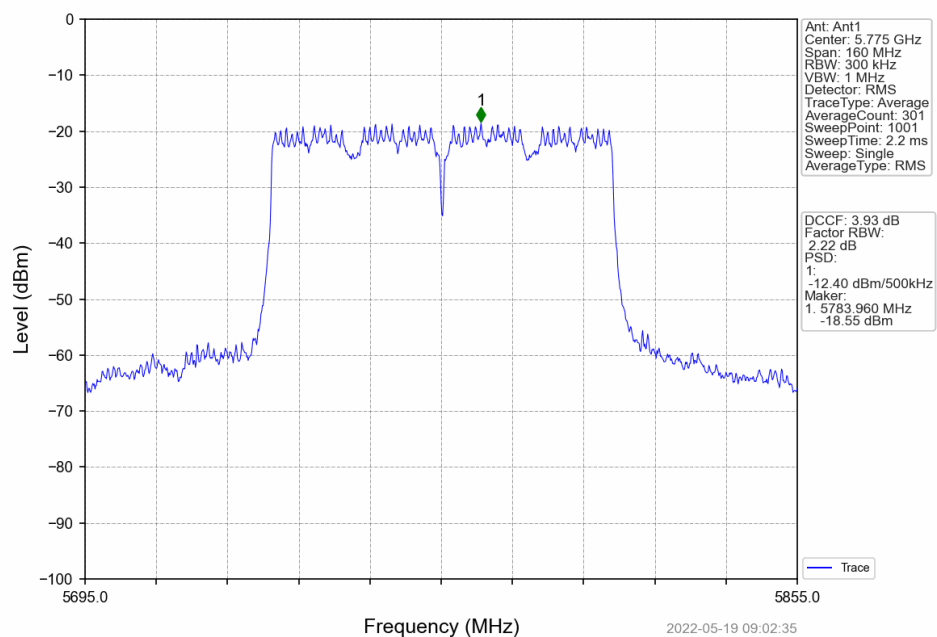
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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	5745.140	5725 to 5850	Pass
				120	5745.180	5725 to 5850	Pass
				138	5745.260	5725 to 5850	Pass
			-30	120	5745.200	5725 to 5850	Pass
			-20	120	5745.160	5725 to 5850	Pass
			-10	120	5745.180	5725 to 5850	Pass
			0	120	5745.200	5725 to 5850	Pass
			10	120	5745.160	5725 to 5850	Pass
			30	120	5745.160	5725 to 5850	Pass
			40	120	5745.160	5725 to 5850	Pass
			50	120	5745.200	5725 to 5850	Pass
		5785	20	102	5785.220	5725 to 5850	Pass
				120	5785.160	5725 to 5850	Pass
				138	5785.180	5725 to 5850	Pass
			-30	120	5785.180	5725 to 5850	Pass
			-20	120	5785.160	5725 to 5850	Pass
			-10	120	5785.180	5725 to 5850	Pass
			0	120	5785.220	5725 to 5850	Pass
			10	120	5785.200	5725 to 5850	Pass
			30	120	5785.180	5725 to 5850	Pass
			40	120	5785.160	5725 to 5850	Pass
			50	120	5785.180	5725 to 5850	Pass
		5825	20	102	5825.220	5725 to 5850	Pass
				120	5825.180	5725 to 5850	Pass
				138	5825.200	5725 to 5850	Pass
			-30	120	5825.160	5725 to 5850	Pass
			-20	120	5825.160	5725 to 5850	Pass
			-10	120	5825.200	5725 to 5850	Pass
			0	120	5825.200	5725 to 5850	Pass
			10	120	5825.180	5725 to 5850	Pass
			30	120	5825.200	5725 to 5850	Pass
			40	120	5825.160	5725 to 5850	Pass
			50	120	5825.200	5725 to 5850	Pass
802.11n (HT20)	SISO	5745	20	102	5745.120	5725 to 5850	Pass
				120	5745.160	5725 to 5850	Pass
				138	5745.200	5725 to 5850	Pass
			-30	120	5745.140	5725 to 5850	Pass
			-20	120	5745.180	5725 to 5850	Pass
			-10	120	5745.180	5725 to 5850	Pass
			0	120	5745.200	5725 to 5850	Pass
			10	120	5745.180	5725 to 5850	Pass
			30	120	5745.180	5725 to 5850	Pass
			40	120	5745.140	5725 to 5850	Pass
			50	120	5745.200	5725 to 5850	Pass
		5785	20	102	5785.120	5725 to 5850	Pass
				120	5785.180	5725 to 5850	Pass
				138	5785.200	5725 to 5850	Pass
			-30	120	5785.180	5725 to 5850	Pass
			-20	120	5785.160	5725 to 5850	Pass

			-10	120	5785.200	5725 to 5850	Pass
			0	120	5785.220	5725 to 5850	Pass
			10	120	5785.220	5725 to 5850	Pass
			30	120	5785.160	5725 to 5850	Pass
			40	120	5785.140	5725 to 5850	Pass
			50	120	5785.140	5725 to 5850	Pass
		5825	20	102	5825.160	5725 to 5850	Pass
				120	5825.160	5725 to 5850	Pass
				138	5825.100	5725 to 5850	Pass
			-30	120	5825.200	5725 to 5850	Pass
			-20	120	5825.180	5725 to 5850	Pass
			-10	120	5825.120	5725 to 5850	Pass
			0	120	5825.160	5725 to 5850	Pass
			10	120	5825.120	5725 to 5850	Pass
			30	120	5825.200	5725 to 5850	Pass
			40	120	5825.200	5725 to 5850	Pass
			50	120	5825.160	5725 to 5850	Pass
802.11n (HT40)	SISO	5755	20	102	5755.200	5725 to 5850	Pass
				120	5755.200	5725 to 5850	Pass
				138	5755.200	5725 to 5850	Pass
			-30	120	5755.160	5725 to 5850	Pass
			-20	120	5755.200	5725 to 5850	Pass
			-10	120	5755.240	5725 to 5850	Pass
			0	120	5755.240	5725 to 5850	Pass
			10	120	5755.200	5725 to 5850	Pass
			30	120	5755.160	5725 to 5850	Pass
			40	120	5755.200	5725 to 5850	Pass
			50	120	5755.200	5725 to 5850	Pass
		5795	20	102	5795.200	5725 to 5850	Pass
				120	5795.200	5725 to 5850	Pass
				138	5795.200	5725 to 5850	Pass
			-30	120	5795.200	5725 to 5850	Pass
			-20	120	5795.200	5725 to 5850	Pass
			-10	120	5795.160	5725 to 5850	Pass
			0	120	5795.200	5725 to 5850	Pass
			10	120	5795.200	5725 to 5850	Pass
			30	120	5795.200	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5745	20	102	5745.120	5725 to 5850	Pass
				120	5745.200	5725 to 5850	Pass
				138	5745.140	5725 to 5850	Pass
			-30	120	5745.160	5725 to 5850	Pass
			-20	120	5745.140	5725 to 5850	Pass
			-10	120	5745.160	5725 to 5850	Pass
			0	120	5745.160	5725 to 5850	Pass
			10	120	5745.100	5725 to 5850	Pass
			30	120	5745.180	5725 to 5850	Pass
			40	120	5745.160	5725 to 5850	Pass
			50	120	5745.160	5725 to 5850	Pass
		5785	20	102	5785.180	5725 to 5850	Pass
				120	5785.160	5725 to 5850	Pass
				138	5785.220	5725 to 5850	Pass
			-30	120	5785.140	5725 to 5850	Pass
			-20	120	5785.140	5725 to 5850	Pass
			-10	120	5785.180	5725 to 5850	Pass
			0	120	5785.080	5725 to 5850	Pass
			10	120	5785.140	5725 to 5850	Pass
			30	120	5785.200	5725 to 5850	Pass

		5825	40	120	5785.180	5725 to 5850	Pass
			50	120	5785.140	5725 to 5850	Pass
			20	102	5825.140	5725 to 5850	Pass
				120	5825.160	5725 to 5850	Pass
				138	5825.140	5725 to 5850	Pass
			-30	120	5825.140	5725 to 5850	Pass
			-20	120	5825.120	5725 to 5850	Pass
			-10	120	5825.100	5725 to 5850	Pass
			0	120	5825.120	5725 to 5850	Pass
			10	120	5825.140	5725 to 5850	Pass
			30	120	5825.120	5725 to 5850	Pass
			40	120	5825.140	5725 to 5850	Pass
			50	120	5825.160	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5755	20	102	5755.200	5725 to 5850	Pass
				120	5755.160	5725 to 5850	Pass
				138	5755.160	5725 to 5850	Pass
			-30	120	5755.200	5725 to 5850	Pass
			-20	120	5755.200	5725 to 5850	Pass
			-10	120	5755.200	5725 to 5850	Pass
			0	120	5755.200	5725 to 5850	Pass
			10	120	5755.200	5725 to 5850	Pass
			30	120	5755.200	5725 to 5850	Pass
			40	120	5755.200	5725 to 5850	Pass
			50	120	5755.240	5725 to 5850	Pass
		5795	20	102	5795.240	5725 to 5850	Pass
				120	5795.200	5725 to 5850	Pass
				138	5795.240	5725 to 5850	Pass
			-30	120	5795.160	5725 to 5850	Pass
			-20	120	5795.240	5725 to 5850	Pass
			-10	120	5795.160	5725 to 5850	Pass
			0	120	5795.160	5725 to 5850	Pass
			10	120	5795.160	5725 to 5850	Pass
			30	120	5795.240	5725 to 5850	Pass
			40	120	5795.240	5725 to 5850	Pass
			50	120	5795.200	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5775	20	102	5775.300	5725 to 5850	Pass
				120	5775.300	5725 to 5850	Pass
				138	5775.300	5725 to 5850	Pass
			-30	120	5775.300	5725 to 5850	Pass
			-20	120	5775.300	5725 to 5850	Pass
			-10	120	5775.300	5725 to 5850	Pass
			0	120	5775.225	5725 to 5850	Pass
			10	120	5775.225	5725 to 5850	Pass
			30	120	5775.300	5725 to 5850	Pass
			40	120	5775.300	5725 to 5850	Pass
			50	120	5775.300	5725 to 5850	Pass

