

Appendix RF test data for WIFI5.8G

1. Duty Cycle

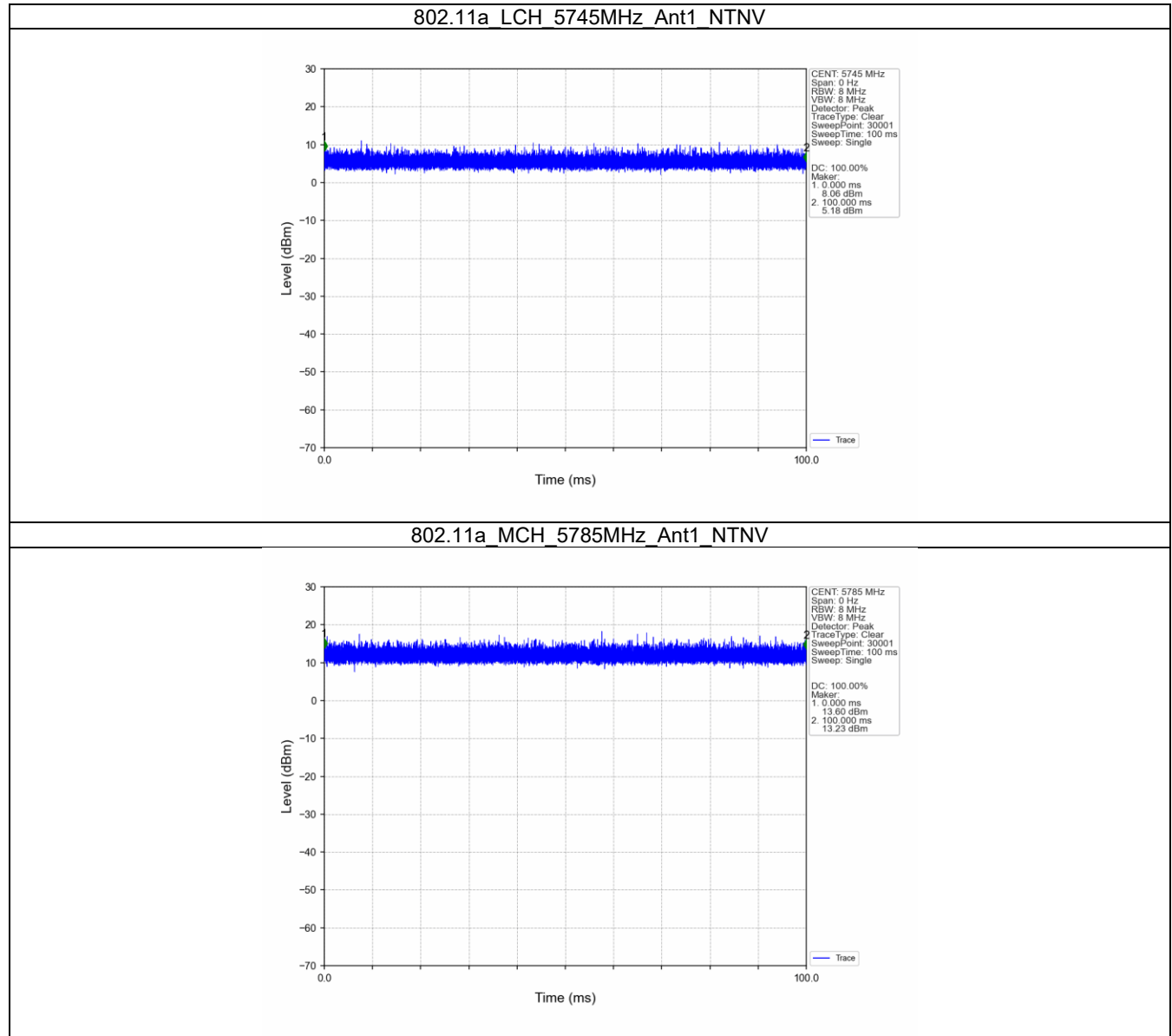
1.1 Test Result

1.1.1 Ant1

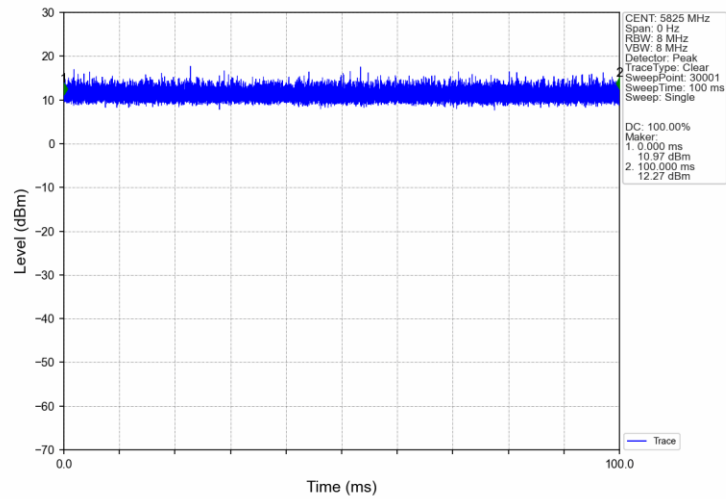
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5745	100.000	100.000	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 (HT40)	SISO	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)	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
802.11ac (VHT40)	SISO	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)	SISO	5775	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

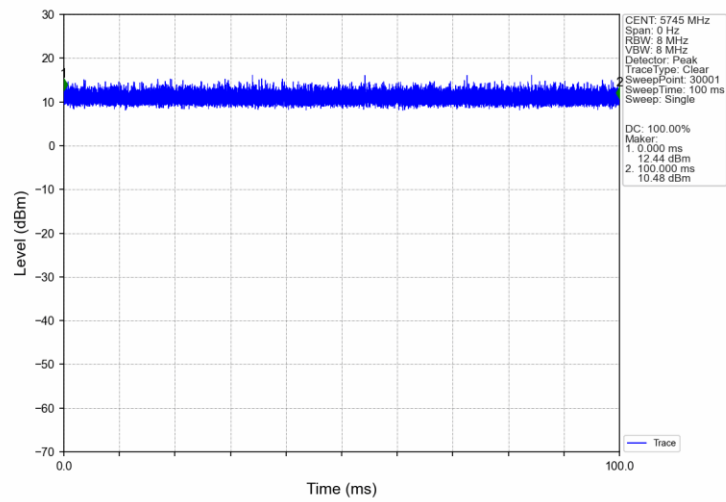
1.2.1 Ant1



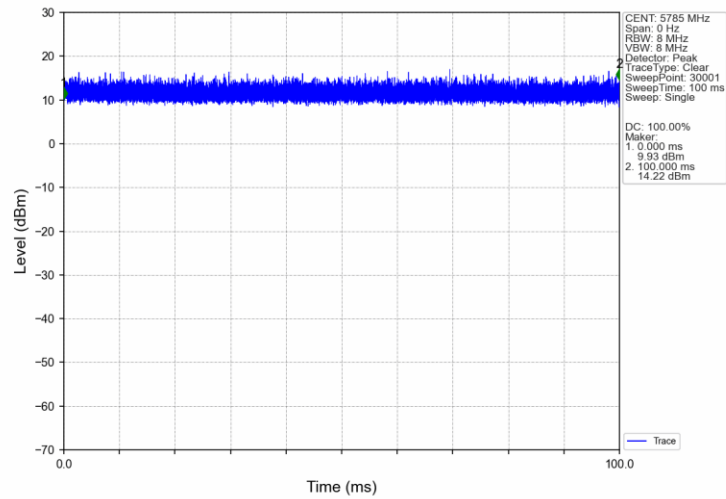
802.11a_HCH_5825MHz_Ant1_NTNV



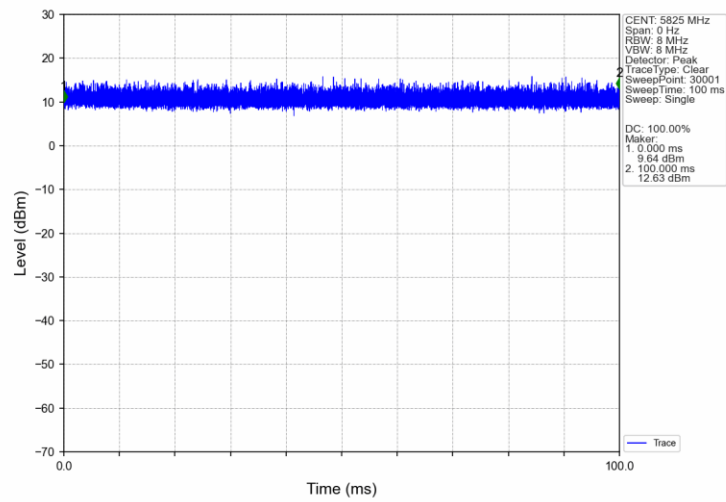
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



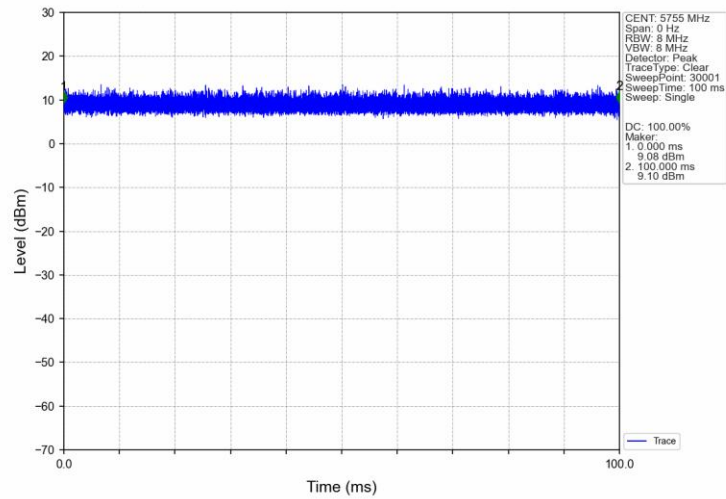
802.11n(HT20) MCH 5785MHz Ant1 NTN



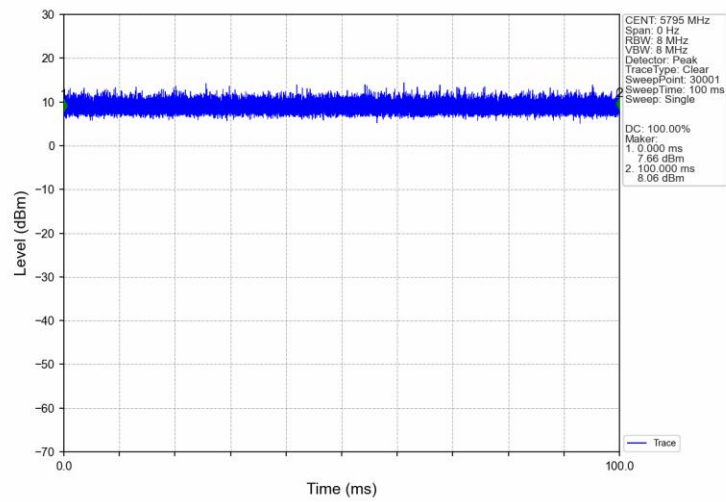
802.11n(HT20) HCH 5825MHz Ant1 NTN



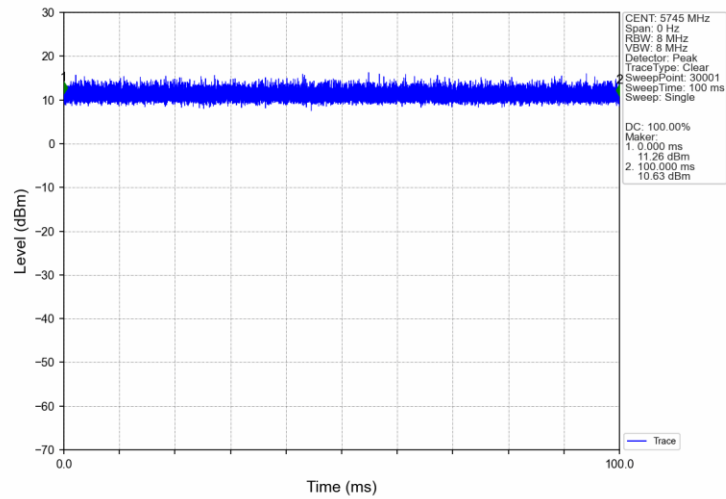
802.11n(HT40) LCH 5755MHz Ant1 NTN



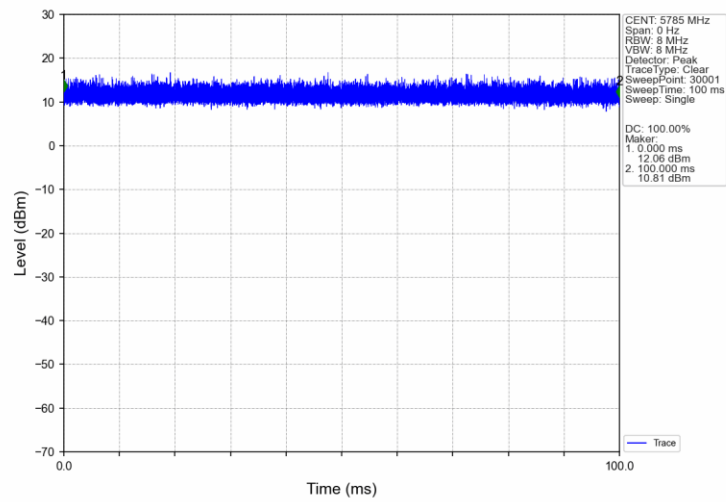
802.11n(HT40) HCH 5795MHz Ant1 NTN



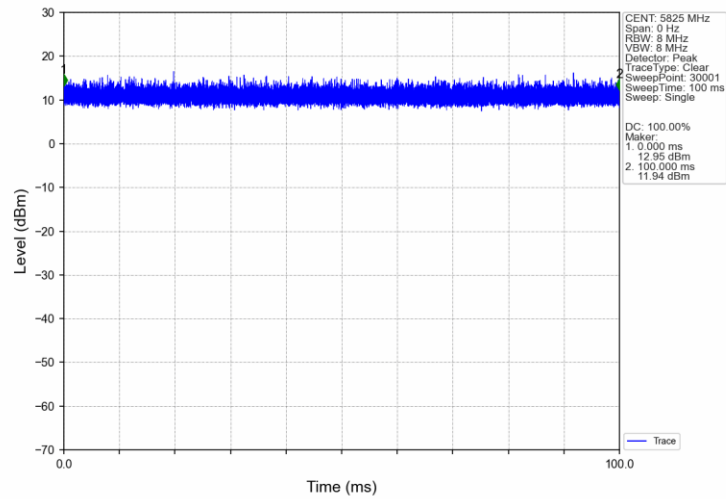
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



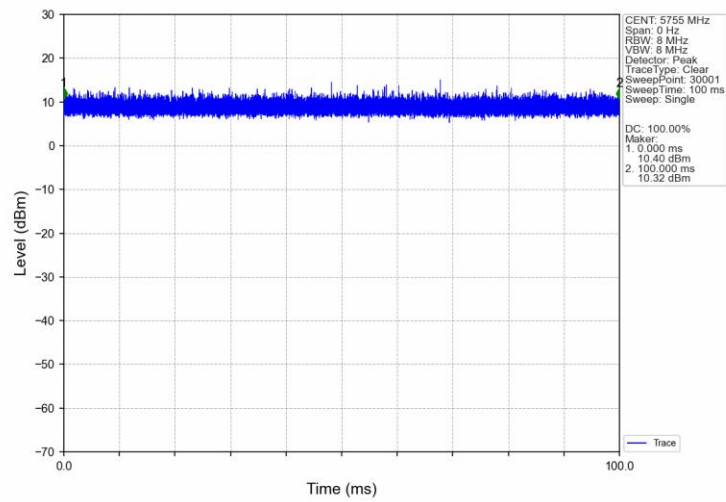
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



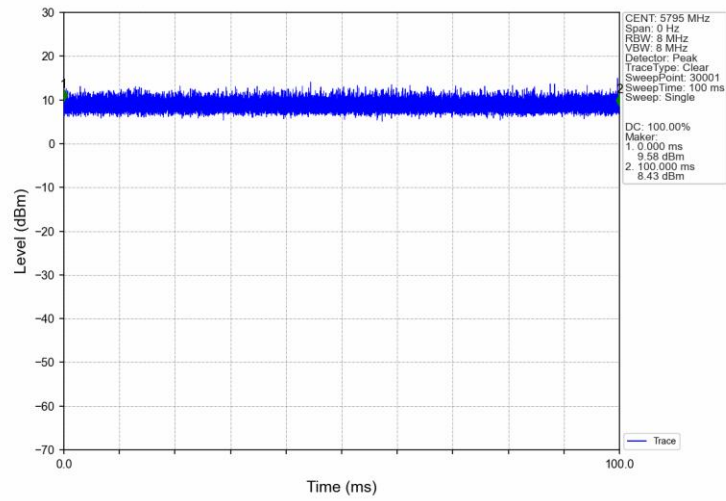
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



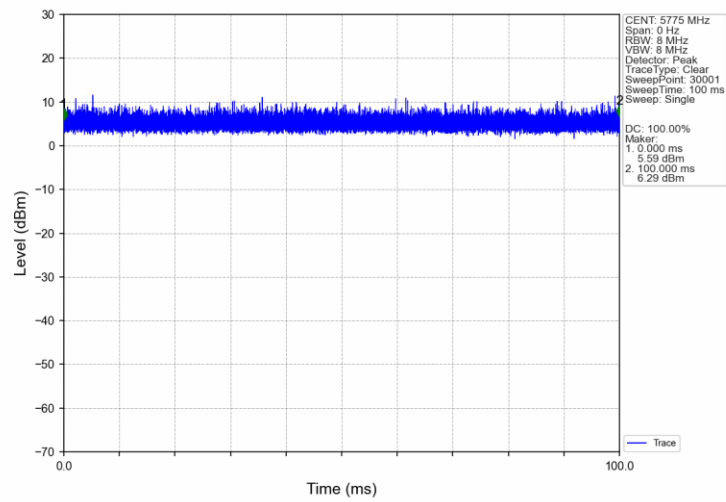
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

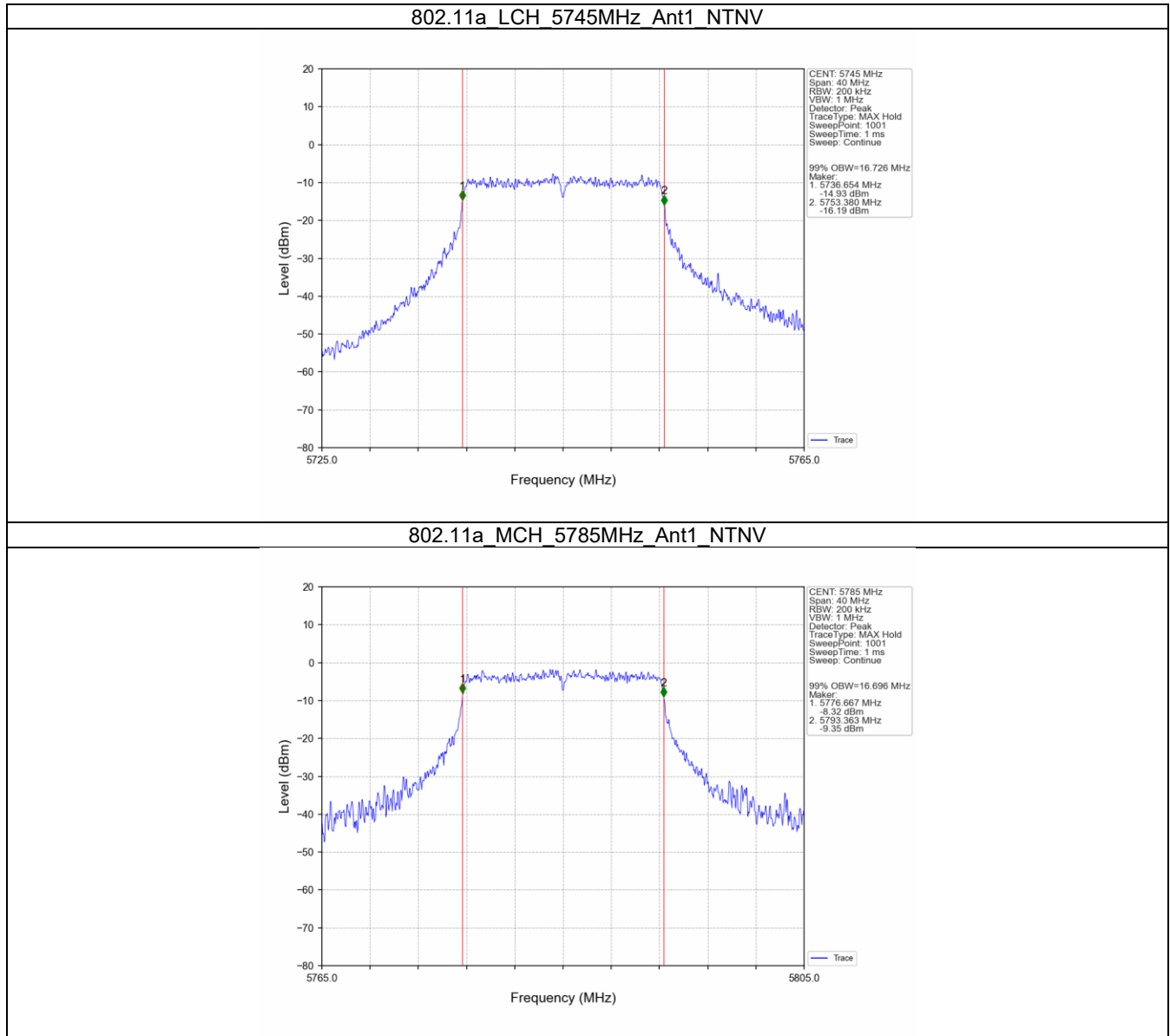
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.726	/	Pass
		5785	1	16.696	/	Pass
		5825	1	16.734	/	Pass
802.11n (HT20)	SISO	5745	1	17.981	/	Pass
		5785	1	17.923	/	Pass
		5825	1	17.906	/	Pass
802.11n (HT40)	SISO	5755	1	36.529	/	Pass
		5795	1	36.506	/	Pass
802.11ac (VHT20)	SISO	5745	1	17.934	/	Pass
		5785	1	17.909	/	Pass
		5825	1	17.918	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.514	/	Pass
		5795	1	36.542	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.450	/	Pass

2.1.2 6dB BW

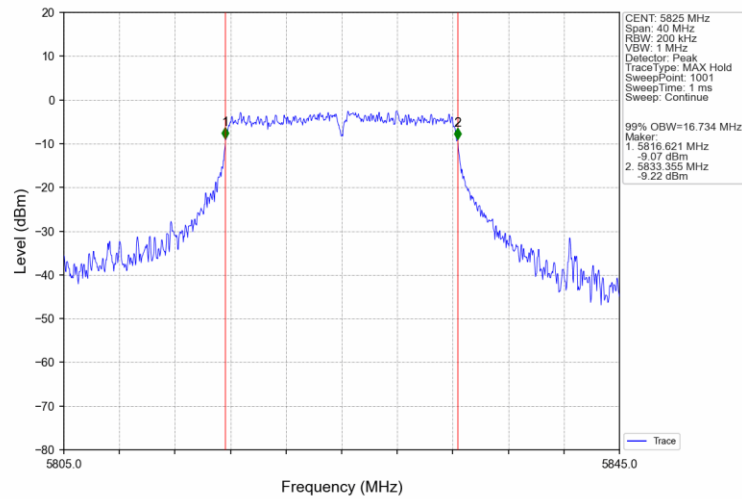
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.601	≥ 0.5	Pass
		5785	1	16.596	≥ 0.5	Pass
		5825	1	16.571	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.849	≥ 0.5	Pass
		5785	1	17.853	≥ 0.5	Pass
		5825	1	17.860	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.444	≥ 0.5	Pass
		5795	1	36.405	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.849	≥ 0.5	Pass
		5785	1	17.850	≥ 0.5	Pass
		5825	1	17.834	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.410	≥ 0.5	Pass
		5795	1	36.428	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	76.417	≥ 0.5	Pass

2.2 Test Graph

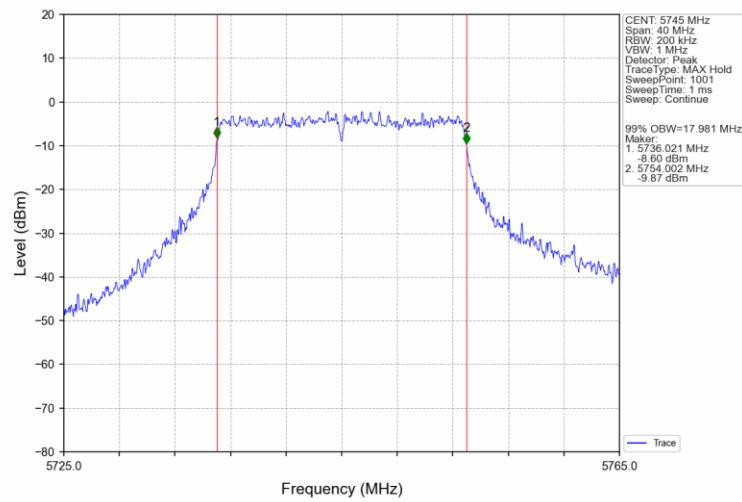
2.2.1 OBW



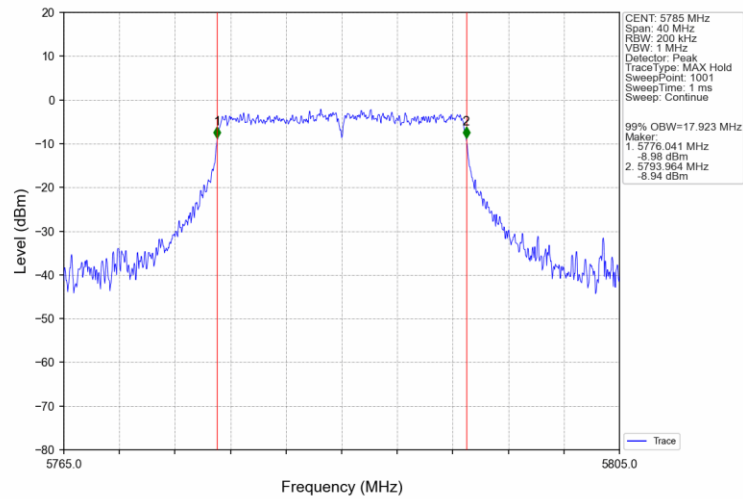
802.11a_HCH_5825MHz_Ant1_NTNV



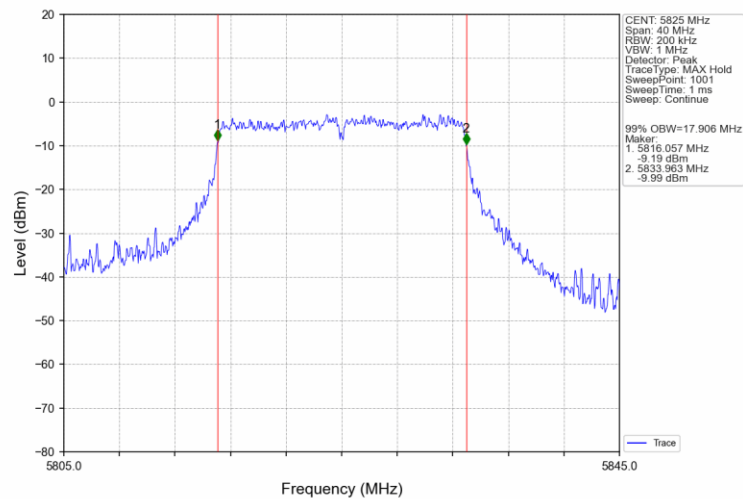
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



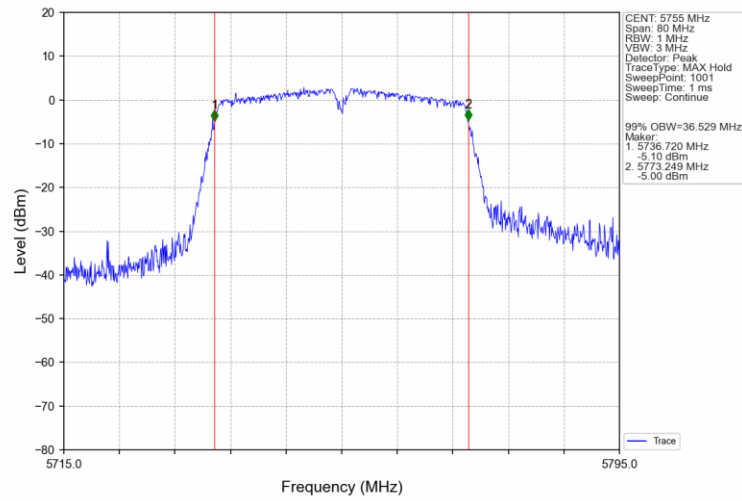
802.11n(HT20) MCH 5785MHz Ant1 NTN



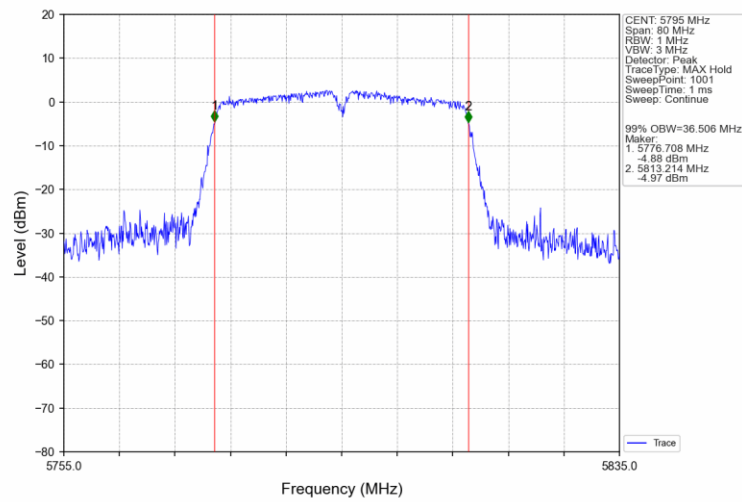
802.11n(HT20) HCH 5825MHz Ant1 NTN



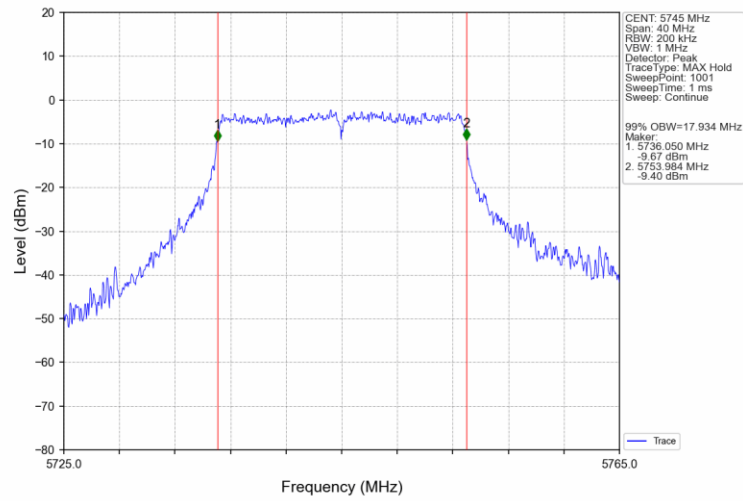
802.11n(HT40) LCH 5755MHz Ant1 NTN



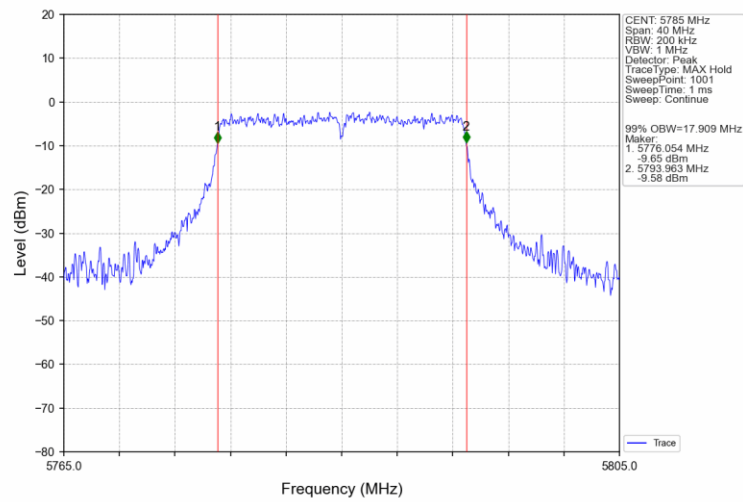
802.11n(HT40) HCH 5795MHz Ant1 NTN



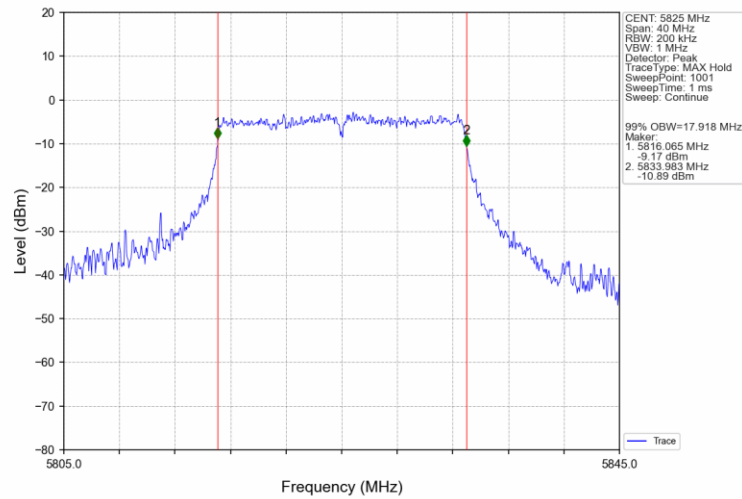
802.11ac(VHT20) LCH 5745MHz Ant1 NTNv



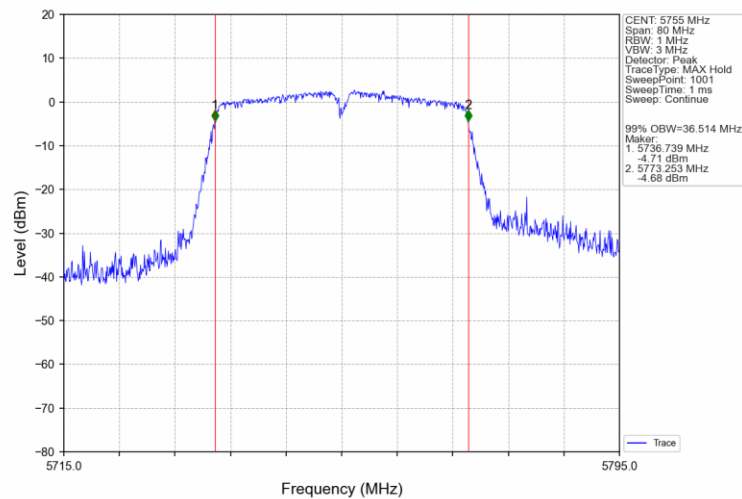
802.11ac(VHT20) MCH 5785MHz Ant1 NTNv



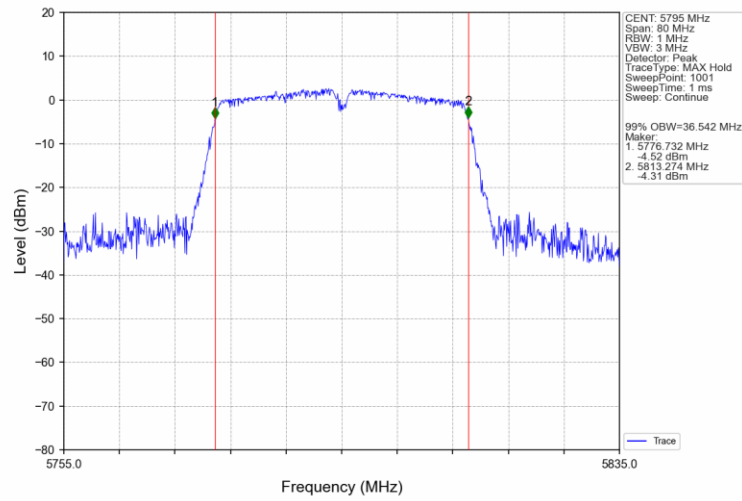
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



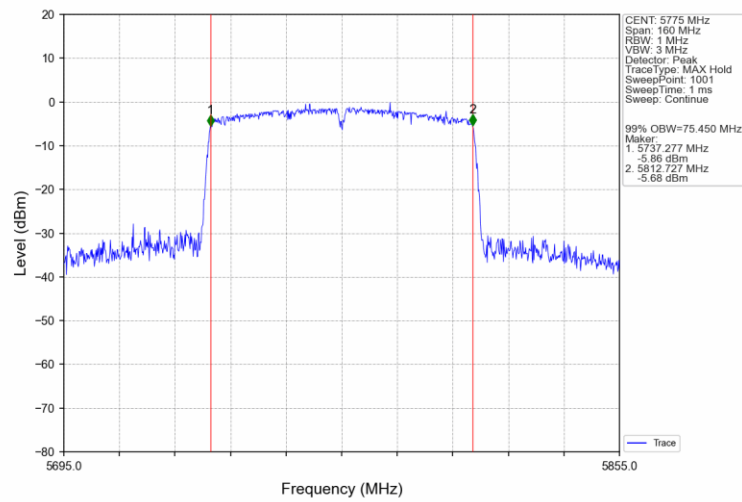
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN

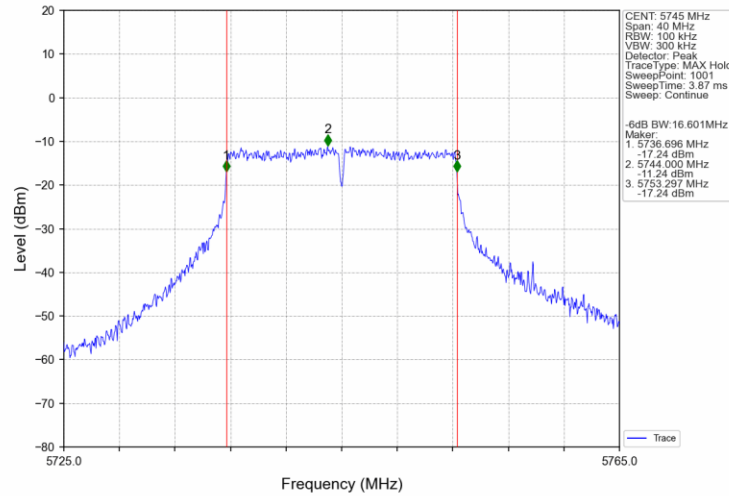


802.11ac(VHT80) MCH 5775MHz Ant1 NTN

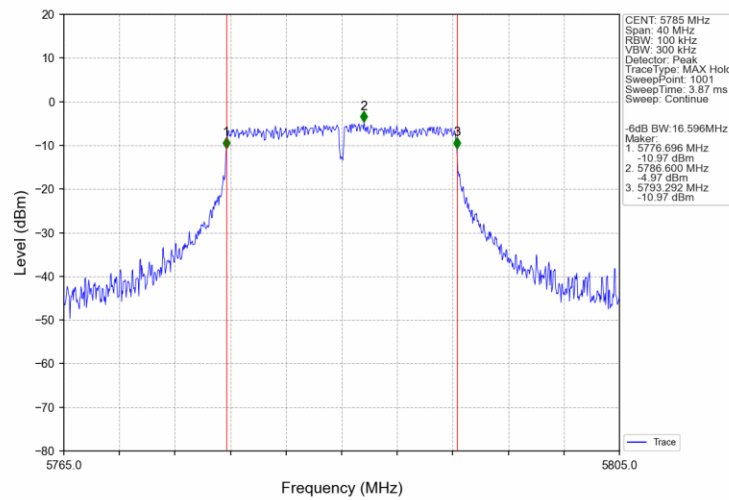


2.2.2 6dB BW

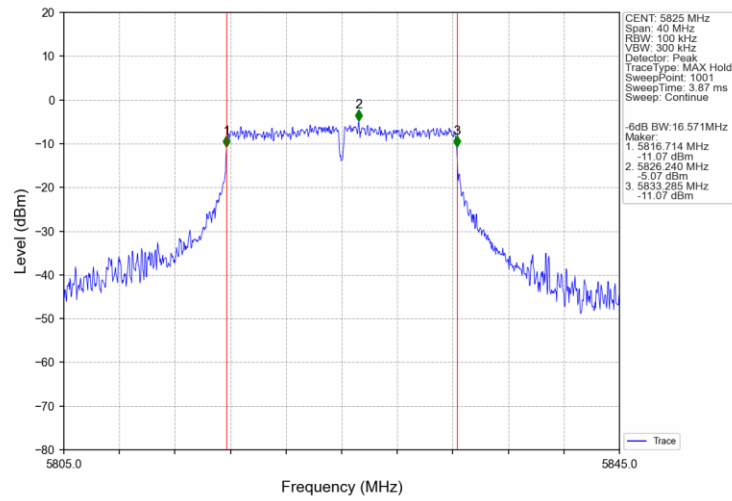
802.11a_LCH_5745MHz_Ant1_NTNV



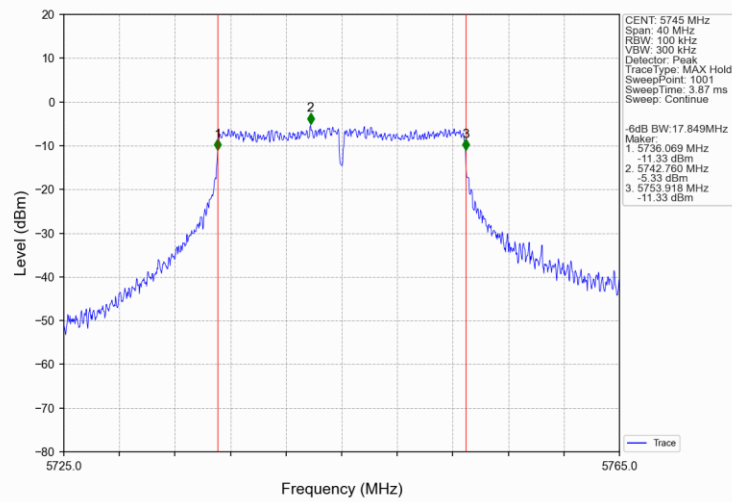
802.11a_MCH_5785MHz_Ant1_NTNV



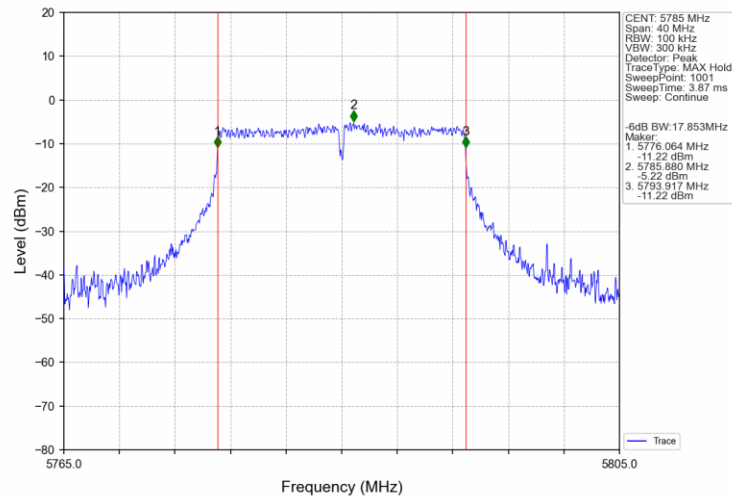
802.11a_HCH_5825MHz_Ant1_NTNV



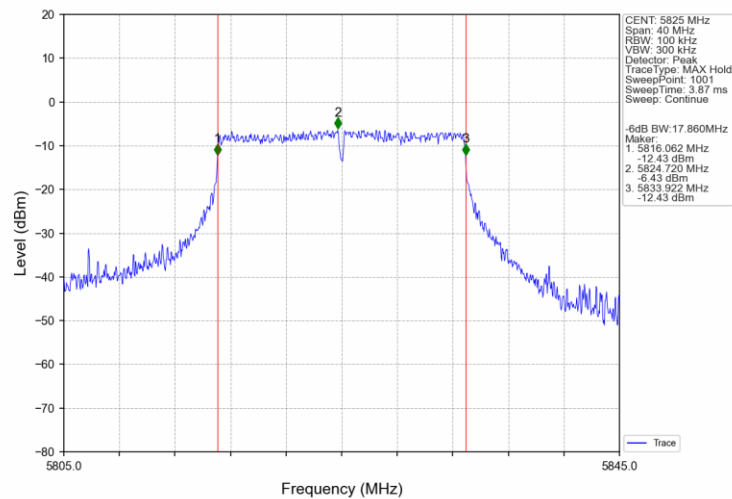
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



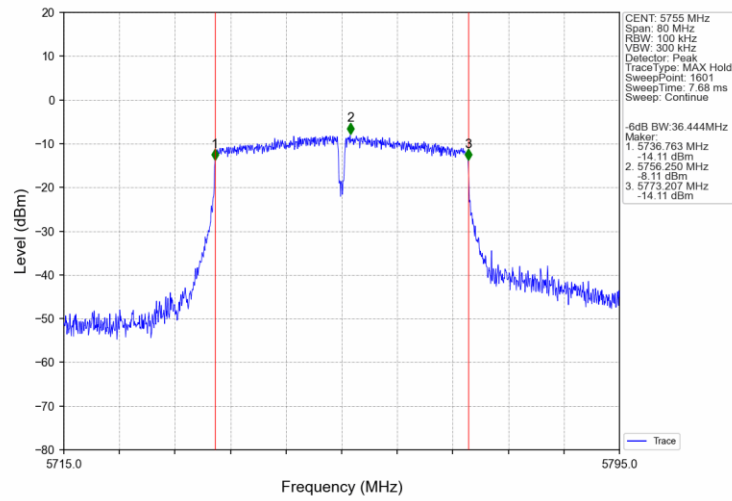
802.11n(HT20) MCH 5785MHz Ant1 NTNv



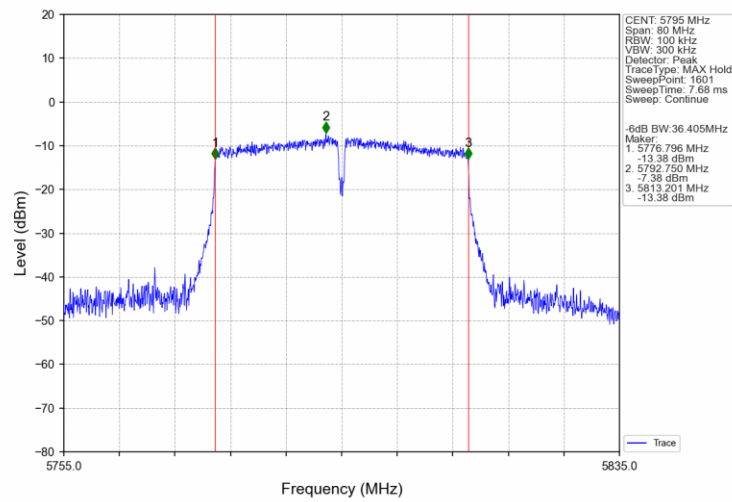
802.11n(HT20) HCH 5825MHz Ant1 NTNv



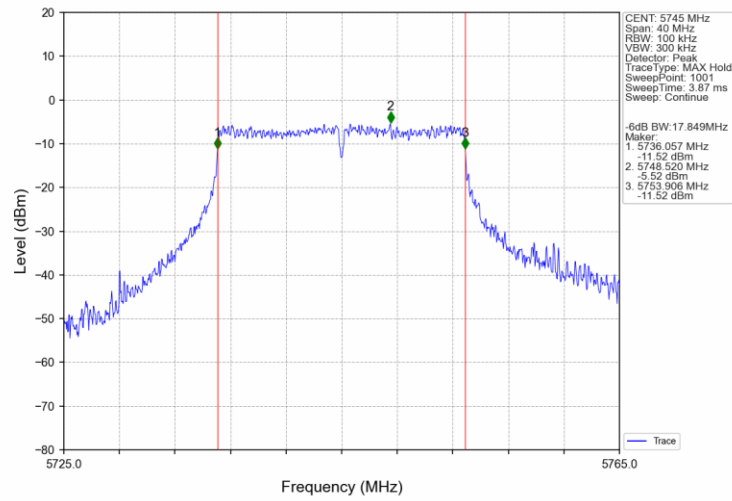
802.11n(HT40) LCH 5755MHz Ant1 NTN



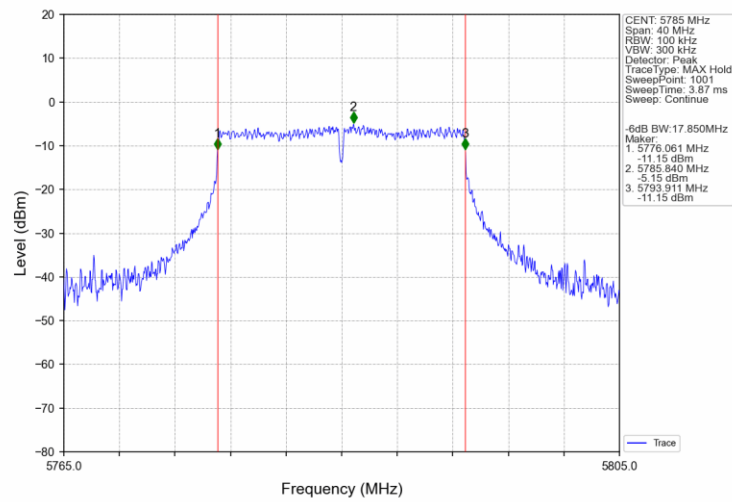
802.11n(HT40) HCH 5795MHz Ant1 NTN



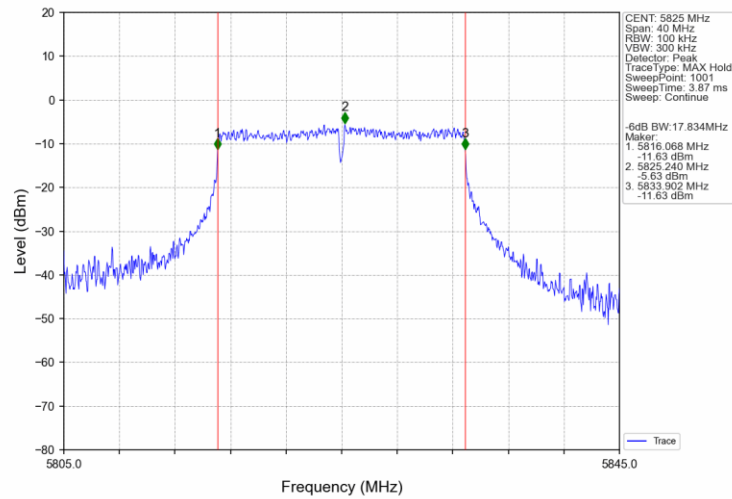
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



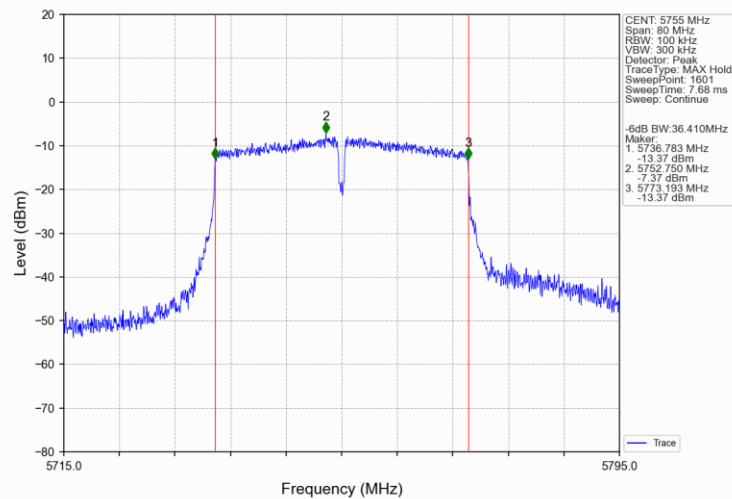
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



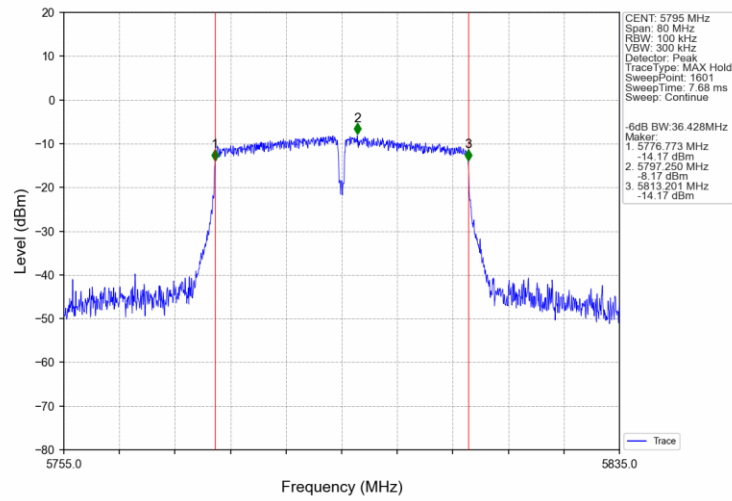
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



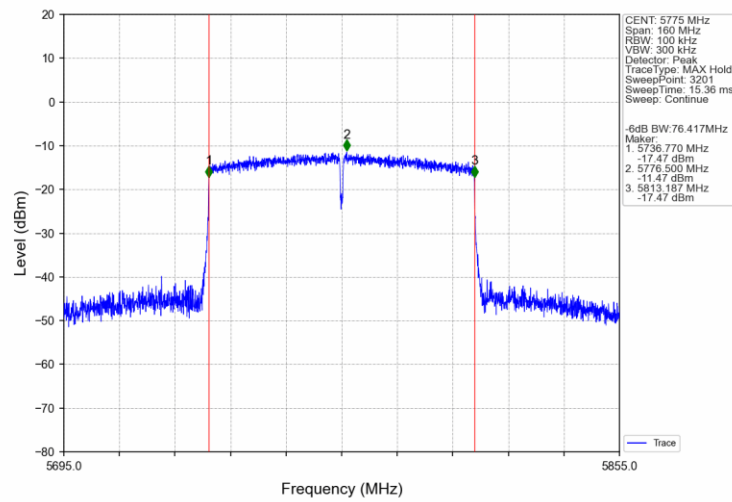
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



3. Maximum Conducted Output Power

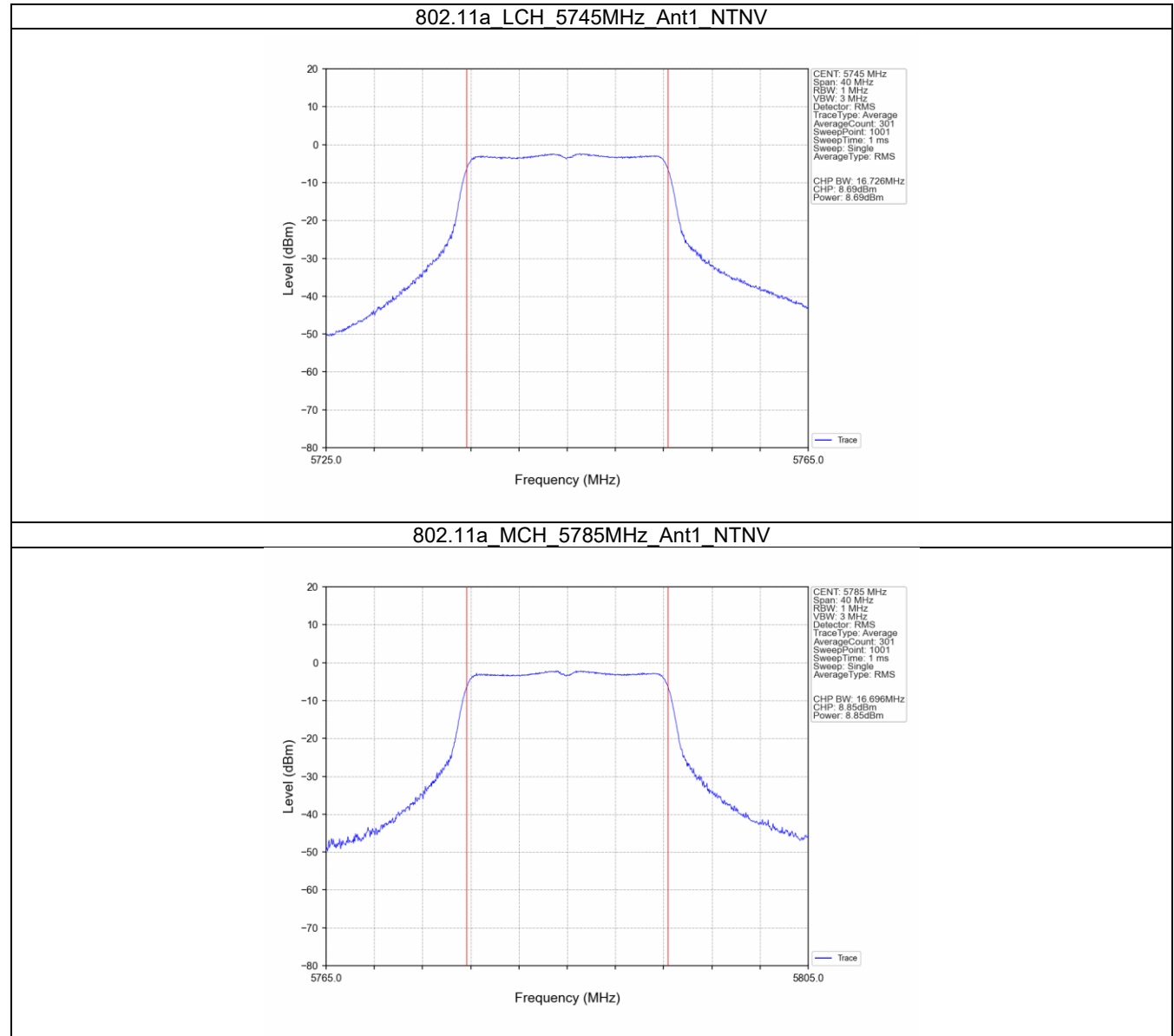
3.1 Test Result

3.1.1 Power

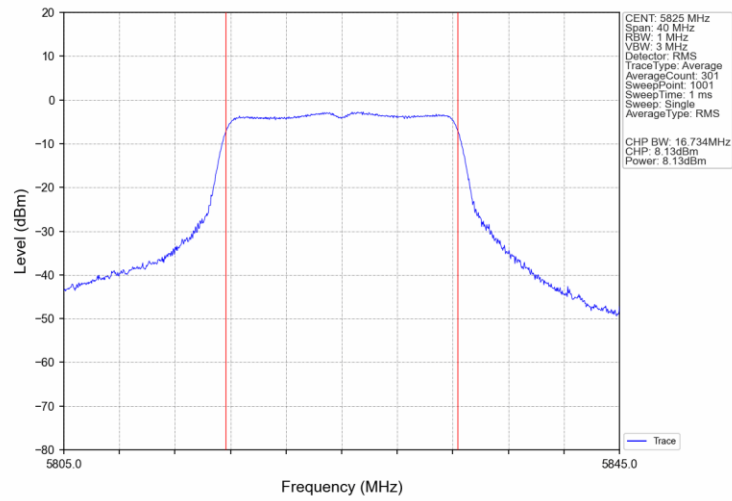
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	8.69	<=30	Pass
		5785	8.85	<=30	Pass
		5825	8.13	<=30	Pass
802.11n (HT20)	SISO	5745	8.46	<=30	Pass
		5785	8.76	<=30	Pass
		5825	7.99	<=30	Pass
802.11n (HT40)	SISO	5755	8.58	<=30	Pass
		5795	8.60	<=30	Pass
802.11ac (VHT20)	SISO	5745	8.63	<=30	Pass
		5785	8.79	<=30	Pass
		5825	8.10	<=30	Pass
802.11ac (VHT40)	SISO	5755	8.49	<=30	Pass
		5795	8.47	<=30	Pass
802.11ac (VHT80)	SISO	5775	8.06	<=30	Pass
Note1: Antenna Gain: Ant1: 1.80dBi;					

3.2 Test Graph

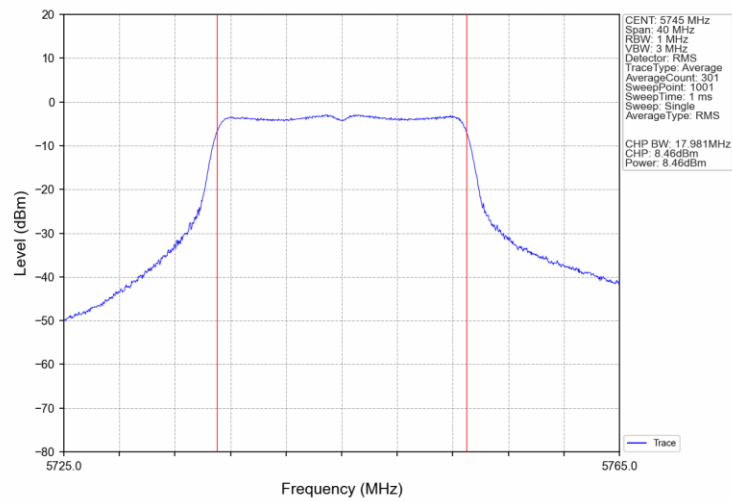
3.2.1 Power



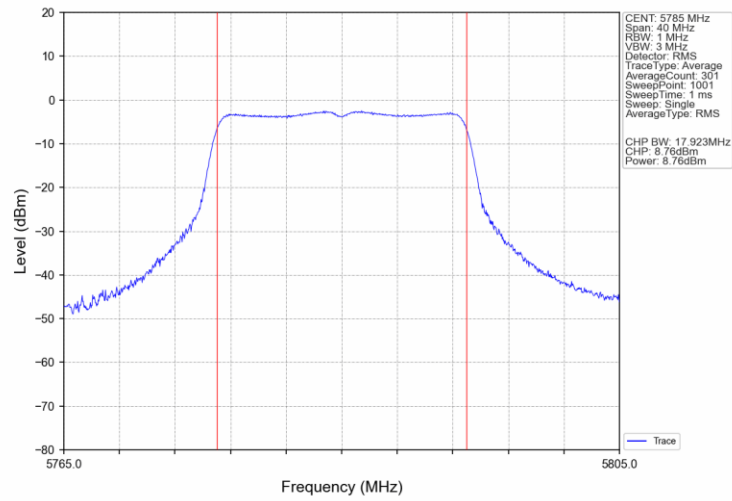
802.11a_HCH_5825MHz_Ant1_NTNV



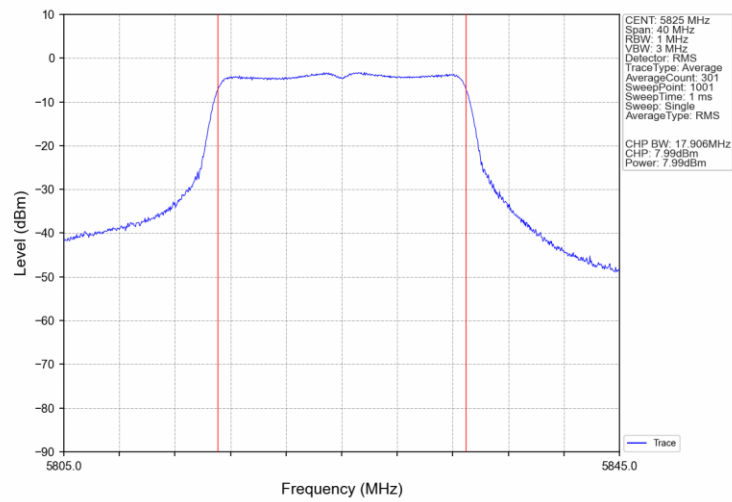
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



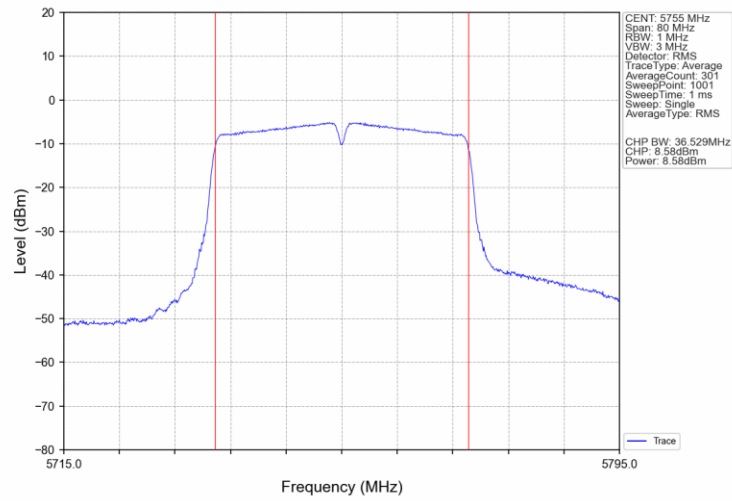
802.11n(HT20) MCH 5785MHz Ant1 NTNv



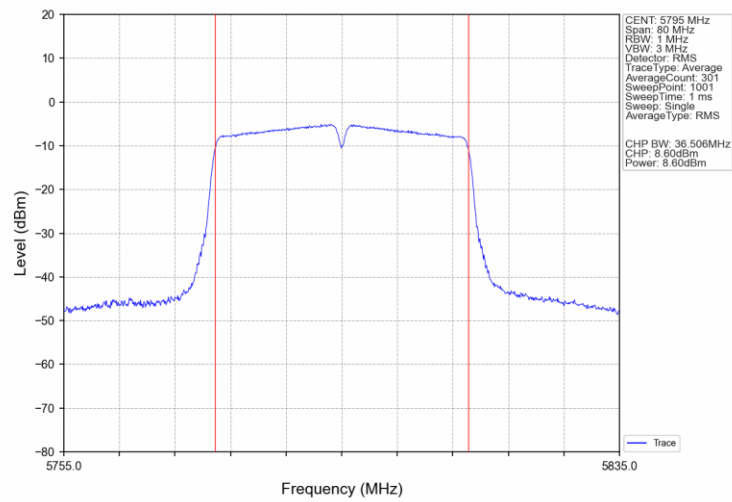
802.11n(HT20) HCH 5825MHz Ant1 NTNv



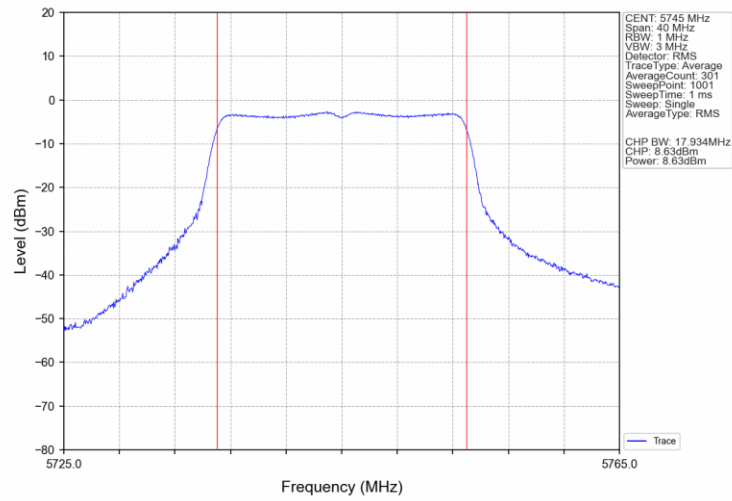
802.11n(HT40) LCH 5755MHz Ant1 NTN



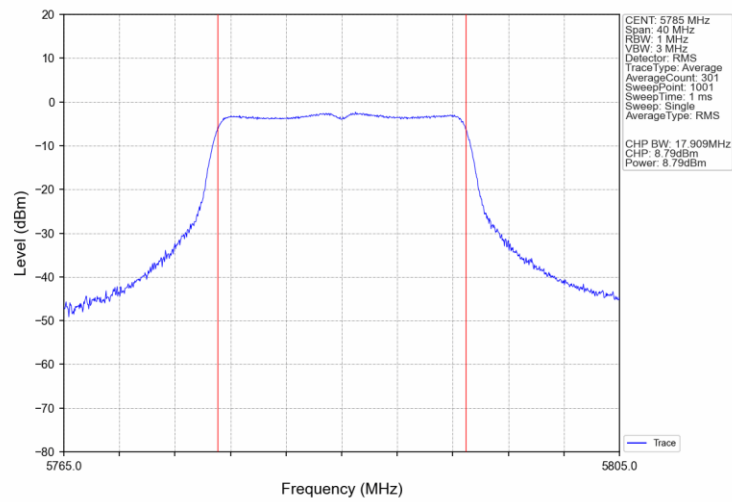
802.11n(HT40) HCH 5795MHz Ant1 NTN



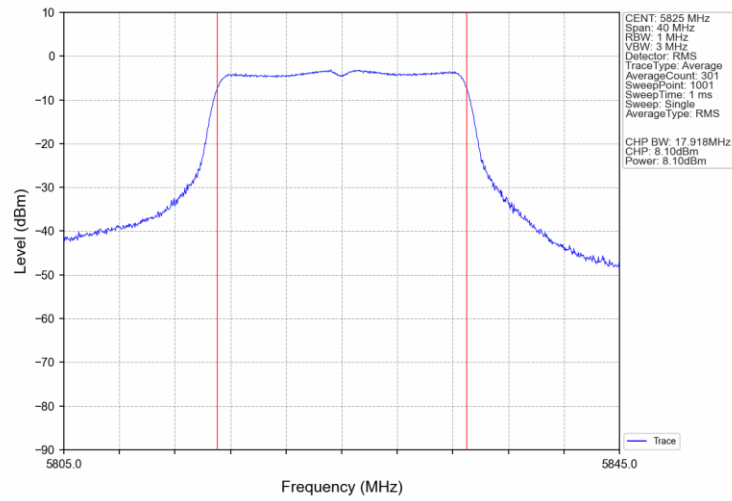
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



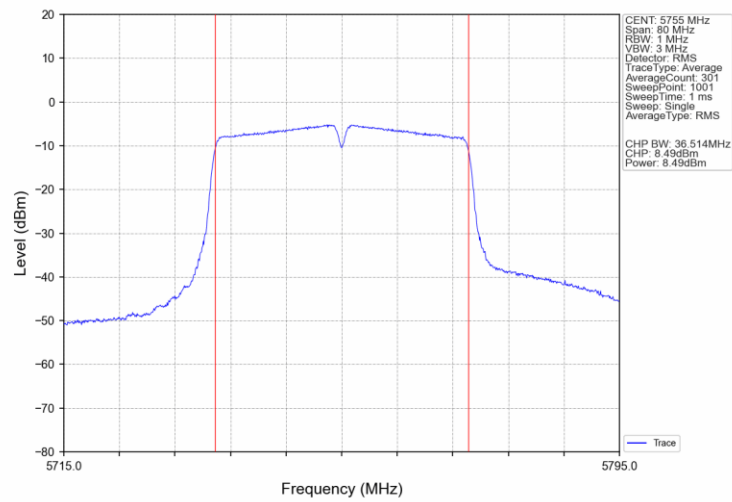
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



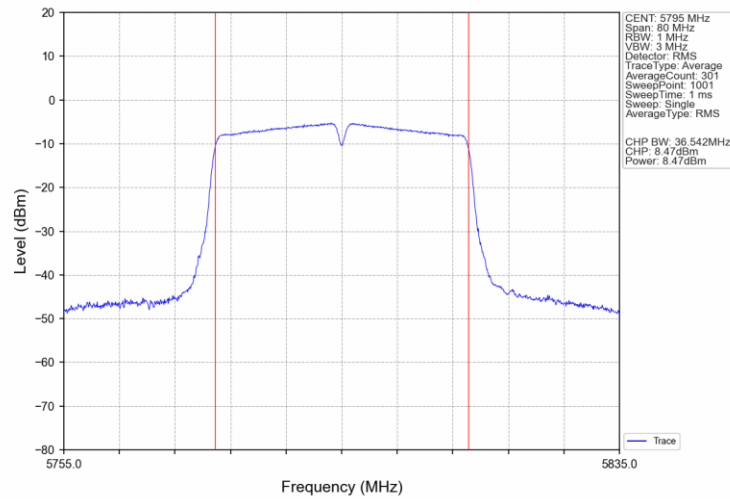
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



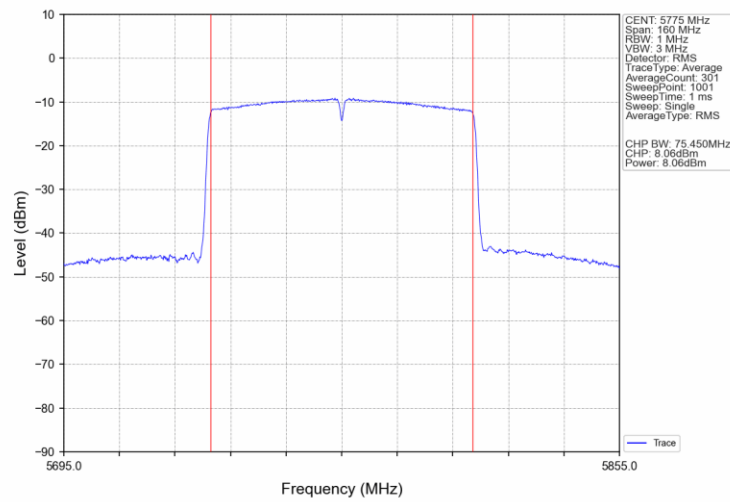
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



4. Maximum Power Spectral Density

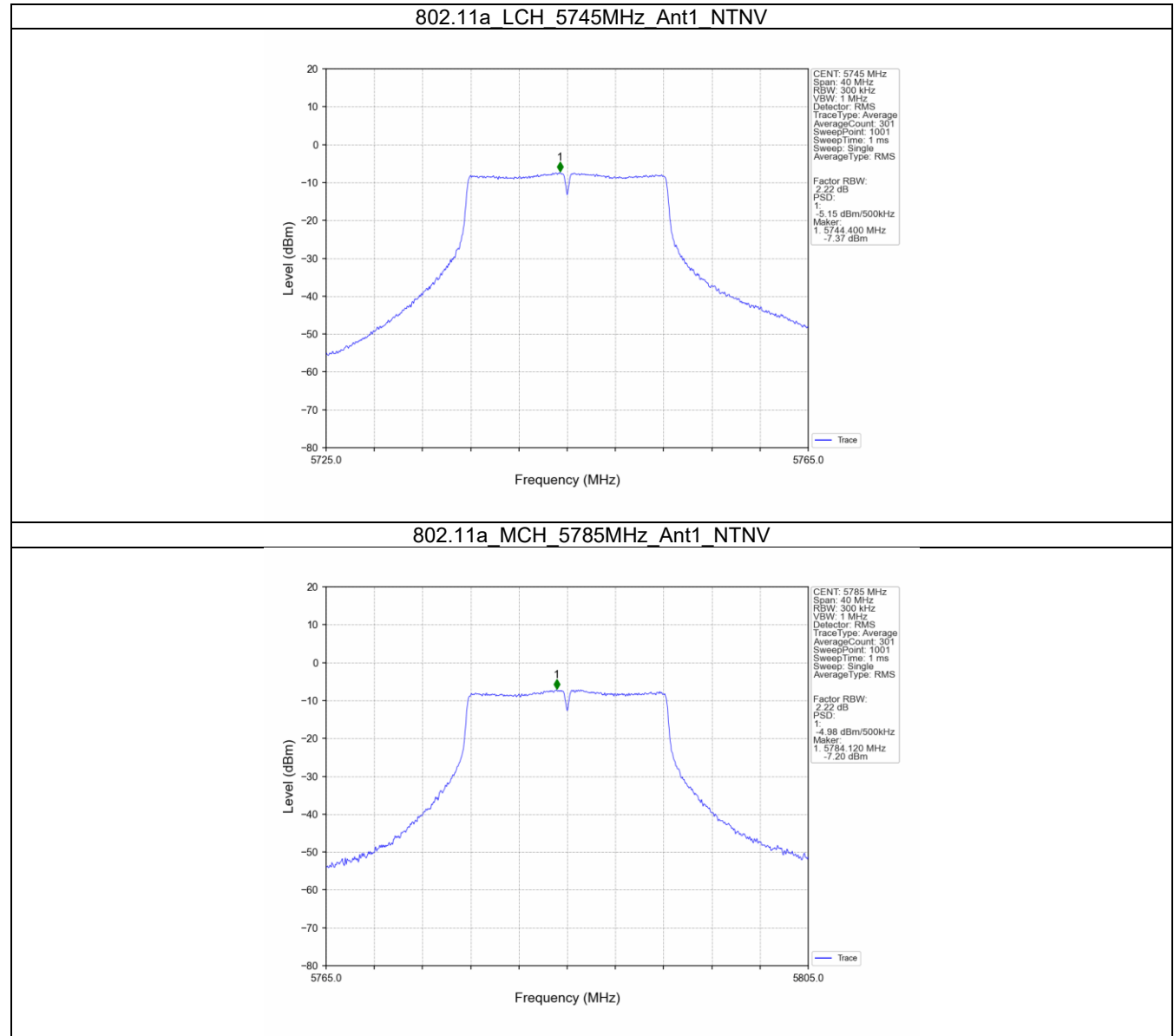
4.1 Test Result

4.1.1 PSD-Band3

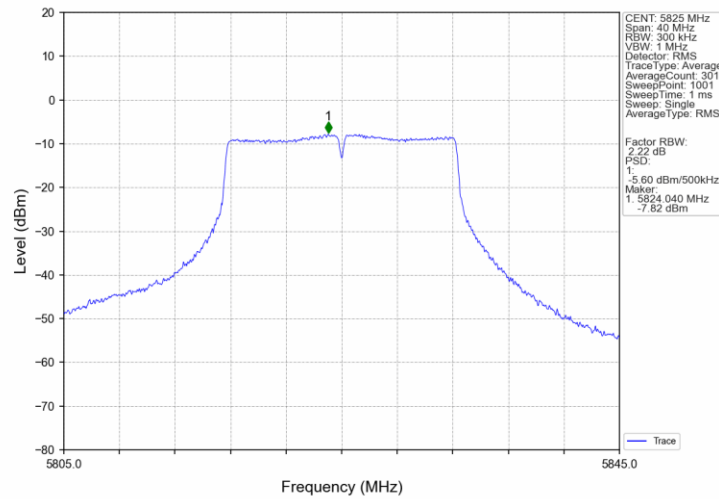
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-5.15	<=30	Pass
		5785	-4.98	<=30	Pass
		5825	-5.60	<=30	Pass
802.11n (HT20)	SISO	5745	-5.76	<=30	Pass
		5785	-5.29	<=30	Pass
		5825	-6.06	<=30	Pass
802.11n (HT40)	SISO	5755	-7.94	<=30	Pass
		5795	-7.92	<=30	Pass
802.11ac (VHT20)	SISO	5745	-5.60	<=30	Pass
		5785	-5.23	<=30	Pass
		5825	-5.92	<=30	Pass
802.11ac (VHT40)	SISO	5755	-8.02	<=30	Pass
		5795	-8.16	<=30	Pass
802.11ac (VHT80)	SISO	5775	-11.89	<=30	Pass
Note1: Antenna Gain: Ant1: 1.80dBi;					

4.2 Test Graph

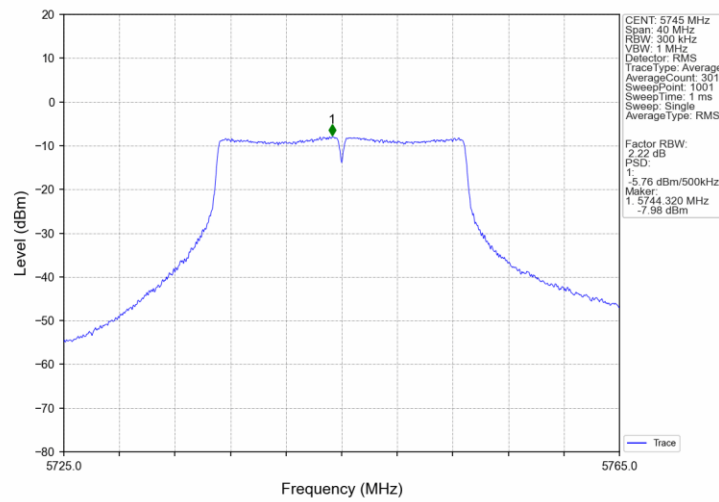
4.2.1 PSD-Band3



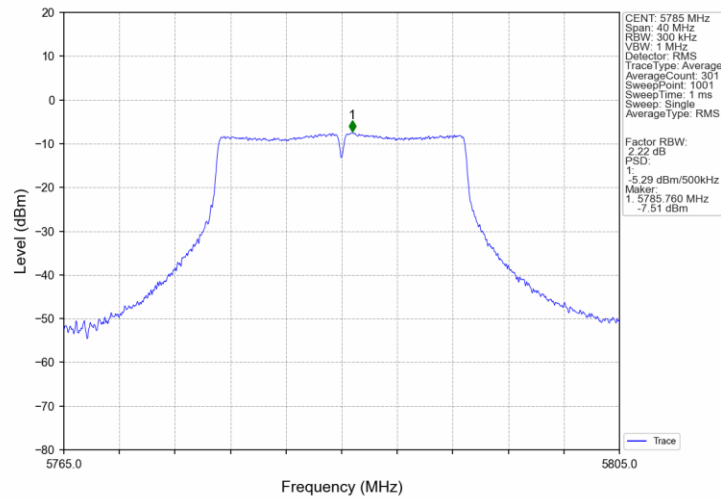
802.11a_HCH_5825MHz_Ant1_NTNV



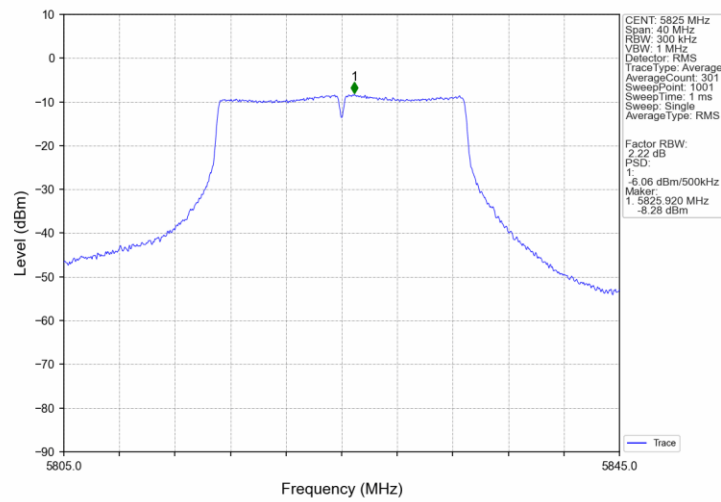
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



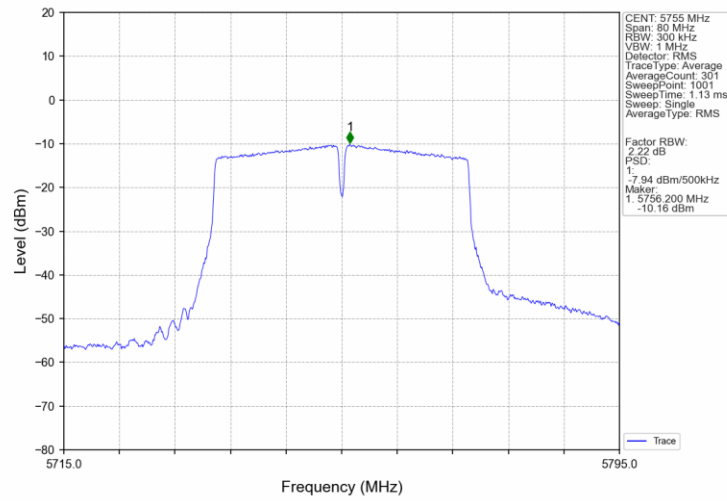
802.11n(HT20) MCH 5785MHz Ant1 NTNv



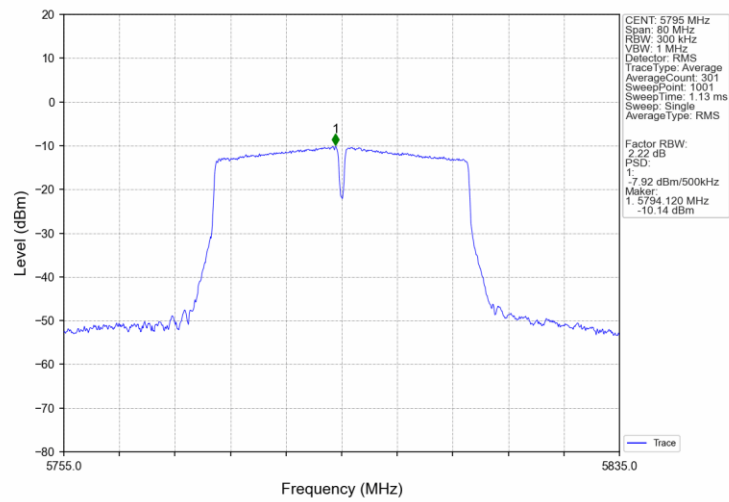
802.11n(HT20) HCH 5825MHz Ant1 NTNv



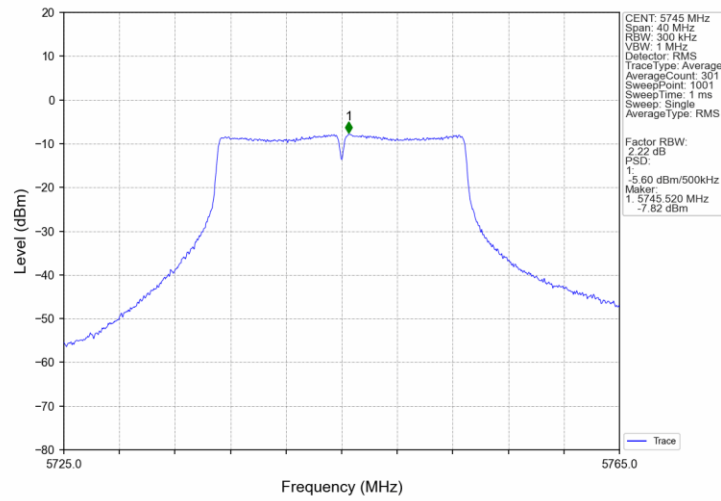
802.11n(HT40) LCH 5755MHz Ant1 NTN



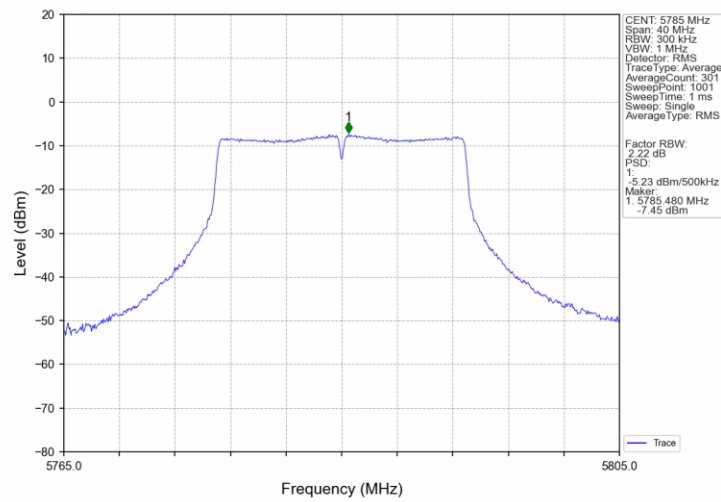
802.11n(HT40) HCH 5795MHz Ant1 NTN



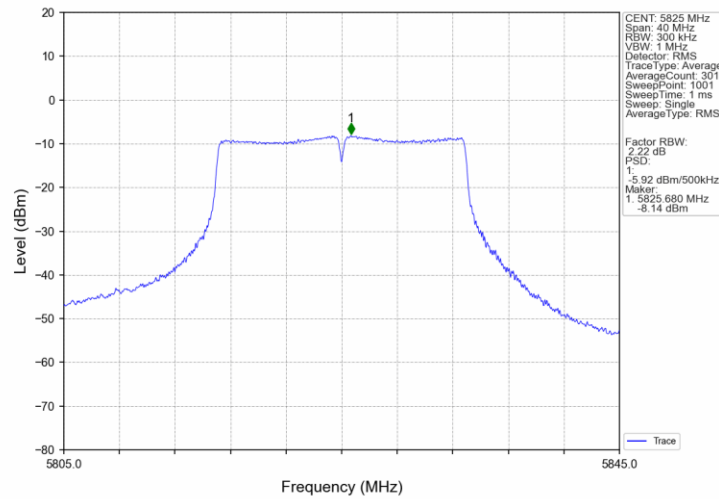
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



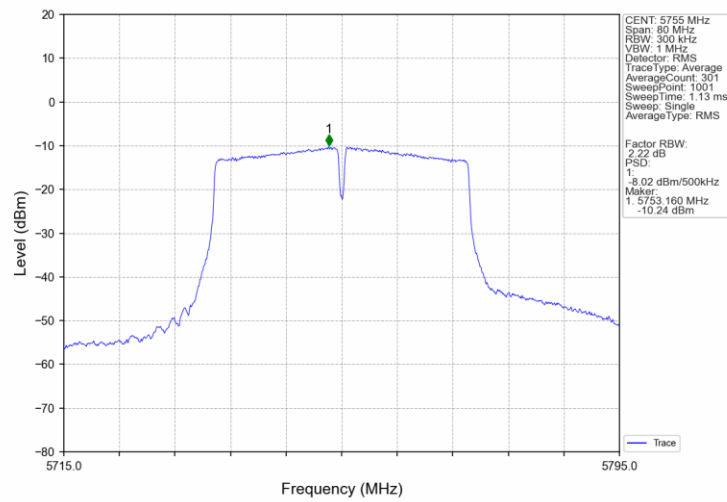
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



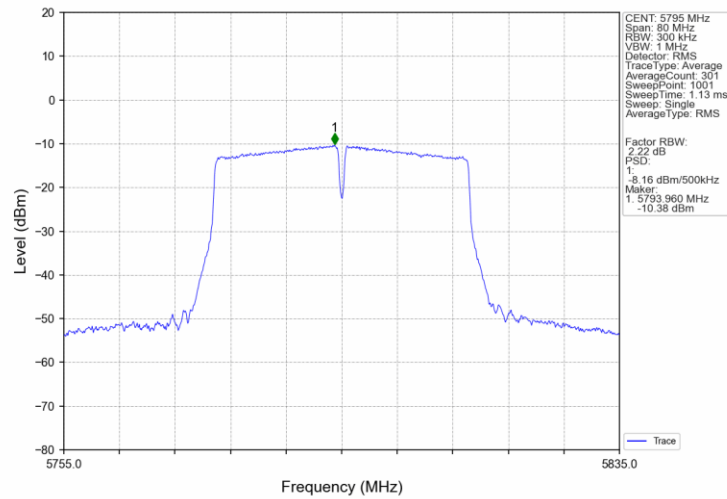
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



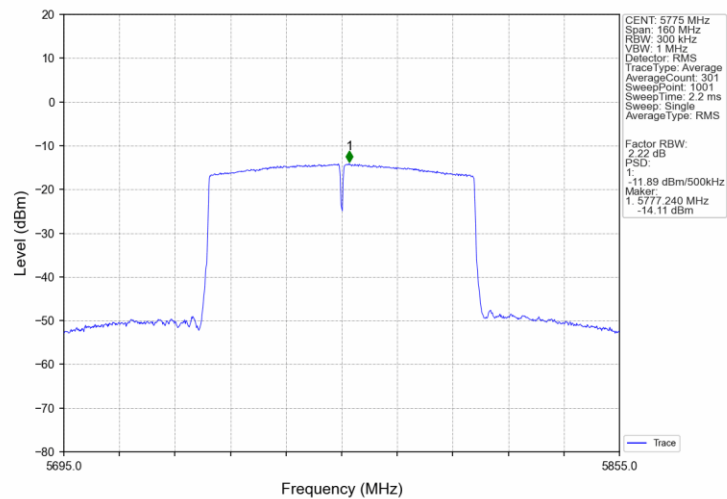
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	LV	5744.981	5725 to 5850	Pass
				NV	5744.981	5725 to 5850	Pass
				HV	5744.980	5725 to 5850	Pass
			-30	NV	5744.980	5725 to 5850	Pass
			-20	NV	5744.980	5725 to 5850	Pass
			-10	NV	5744.979	5725 to 5850	Pass
			0	NV	5744.979	5725 to 5850	Pass
			10	NV	5744.979	5725 to 5850	Pass
			30	NV	5744.979	5725 to 5850	Pass
			40	NV	5744.979	5725 to 5850	Pass
			50	NV	5744.979	5725 to 5850	Pass
		5785	20	LV	5784.979	5725 to 5850	Pass
				NV	5784.979	5725 to 5850	Pass
				HV	5784.979	5725 to 5850	Pass
			-30	NV	5784.979	5725 to 5850	Pass
			-20	NV	5784.979	5725 to 5850	Pass
			-10	NV	5784.979	5725 to 5850	Pass
			0	NV	5784.979	5725 to 5850	Pass
			10	NV	5784.979	5725 to 5850	Pass
			30	NV	5784.978	5725 to 5850	Pass
			40	NV	5784.978	5725 to 5850	Pass
			50	NV	5784.978	5725 to 5850	Pass
		5825	20	LV	5824.979	5725 to 5850	Pass
				NV	5824.978	5725 to 5850	Pass
				HV	5824.978	5725 to 5850	Pass
			-30	NV	5824.978	5725 to 5850	Pass
			-20	NV	5824.978	5725 to 5850	Pass
			-10	NV	5824.978	5725 to 5850	Pass
			0	NV	5824.978	5725 to 5850	Pass
			10	NV	5824.978	5725 to 5850	Pass
			30	NV	5824.978	5725 to 5850	Pass
			40	NV	5824.978	5725 to 5850	Pass
			50	NV	5824.978	5725 to 5850	Pass
		5755	20	LV	5754.980	5725 to 5850	Pass
				NV	5754.979	5725 to 5850	Pass
				HV	5754.979	5725 to 5850	Pass
			-30	NV	5754.979	5725 to 5850	Pass
			-20	NV	5754.979	5725 to 5850	Pass
			-10	NV	5754.979	5725 to 5850	Pass
			0	NV	5754.978	5725 to 5850	Pass
			10	NV	5754.978	5725 to 5850	Pass
			30	NV	5754.978	5725 to 5850	Pass
			40	NV	5754.978	5725 to 5850	Pass
			50	NV	5754.978	5725 to 5850	Pass
		5795	20	LV	5794.979	5725 to 5850	Pass
				NV	5794.978	5725 to 5850	Pass



				HV	5794.978	5725 to 5850	Pass
			-30	NV	5794.978	5725 to 5850	Pass
			-20	NV	5794.978	5725 to 5850	Pass
			-10	NV	5794.978	5725 to 5850	Pass
			0	NV	5794.978	5725 to 5850	Pass
			10	NV	5794.978	5725 to 5850	Pass
			30	NV	5794.978	5725 to 5850	Pass
			40	NV	5794.978	5725 to 5850	Pass
			50	NV	5794.978	5725 to 5850	Pass
		5775	20	LV	5774.979	5725 to 5850	Pass
				NV	5774.979	5725 to 5850	Pass
				HV	5774.978	5725 to 5850	Pass
			-30	NV	5774.978	5725 to 5850	Pass
			-20	NV	5774.978	5725 to 5850	Pass
			-10	NV	5774.978	5725 to 5850	Pass
			0	NV	5774.978	5725 to 5850	Pass
			10	NV	5774.978	5725 to 5850	Pass
			30	NV	5774.978	5725 to 5850	Pass
			40	NV	5774.978	5725 to 5850	Pass
			50	NV	5774.978	5725 to 5850	Pass

6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5745	5825	0.0077	8.85
5755	5795	0.0072	8.60
5775	5775	0.0064	8.06

***** End of Report *****