

Appendix RF test data for UNII Band 3

1. Duty Cycle

1.1 Test Result

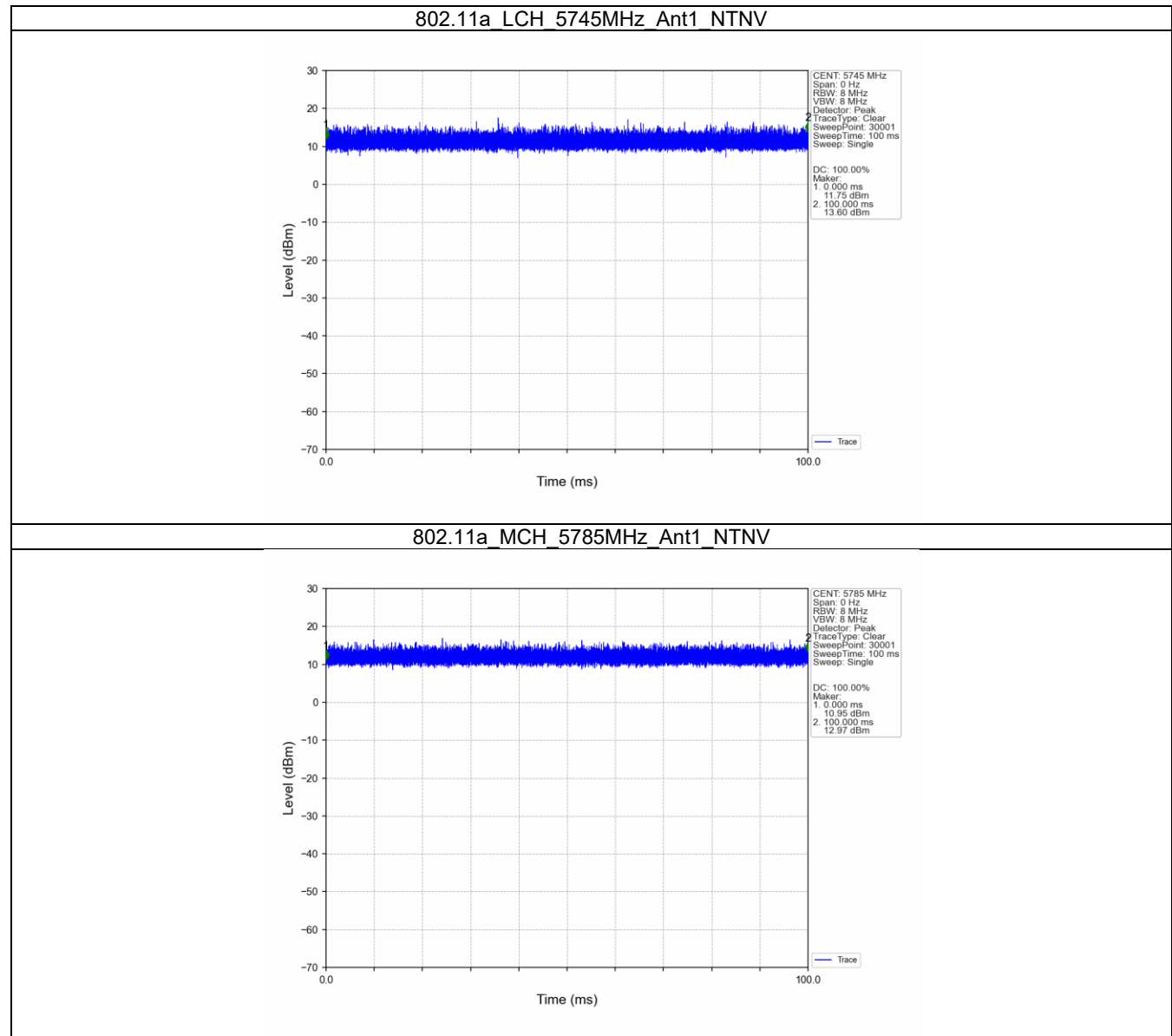
1.1.1 Ant1

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



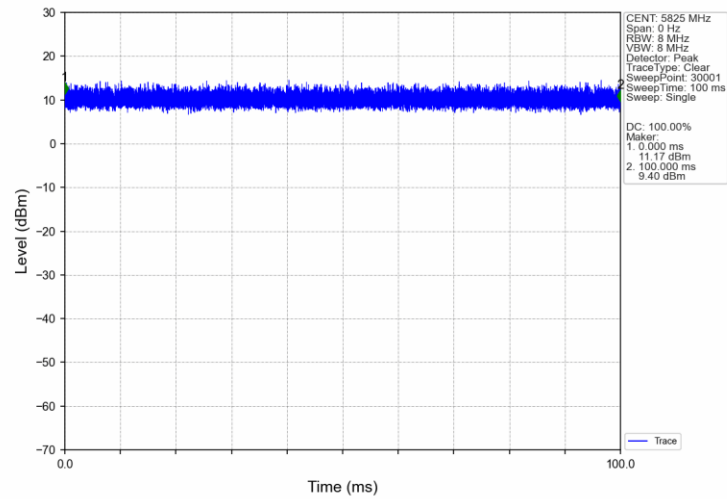
1.2 Test Graph

1.2.1 Ant1

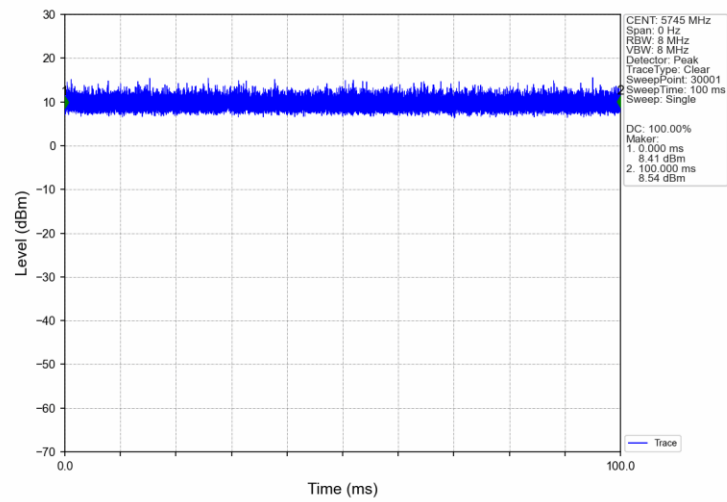




802.11a_HCH_5825MHz_Ant1_NTNV

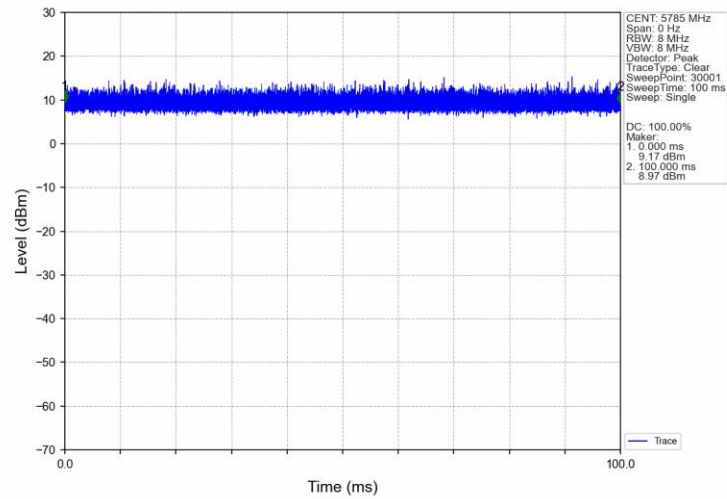


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

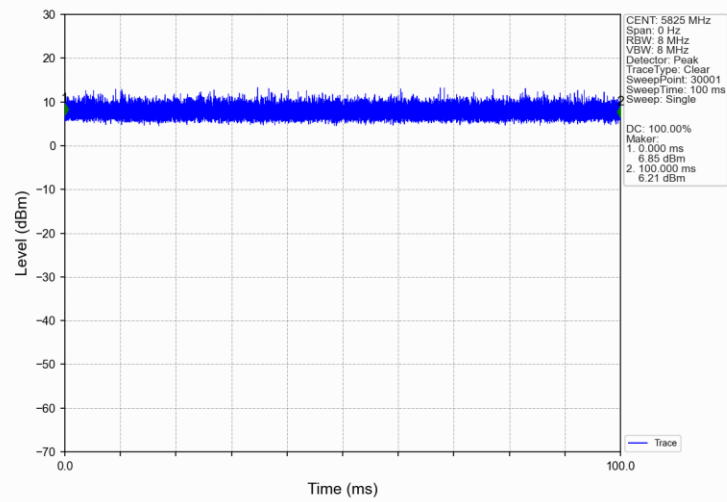




802.11n(HT20) MCH 5785MHz Ant1 NTV

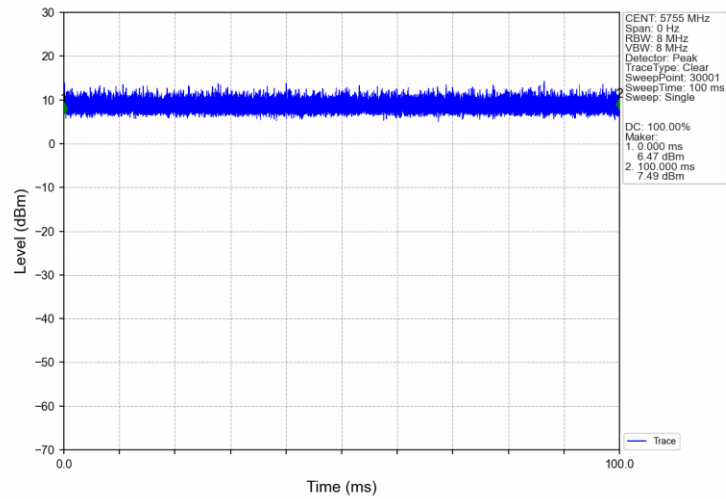


802.11n(HT20) HCH 5825MHz Ant1 NTV

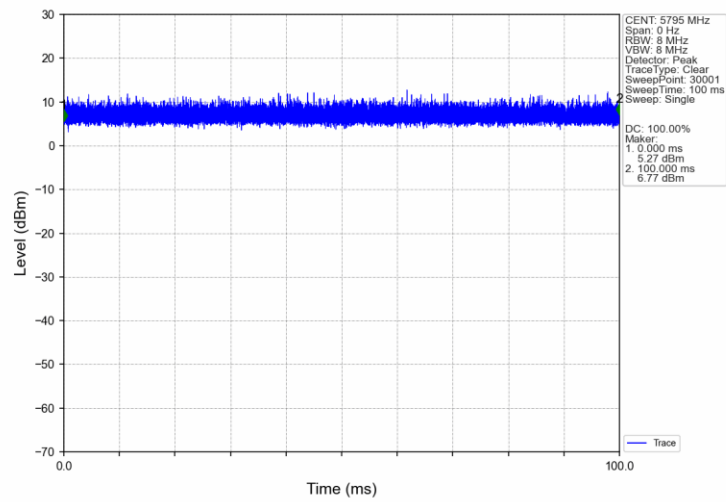




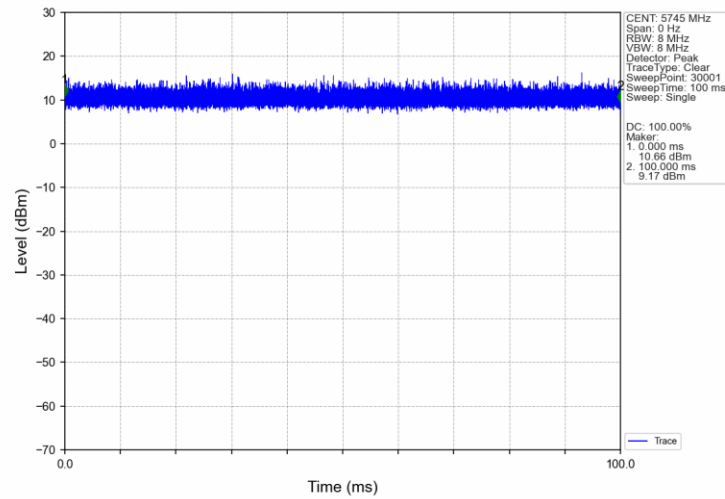
802.11n(HT40) LCH 5755MHz Ant1 NTN



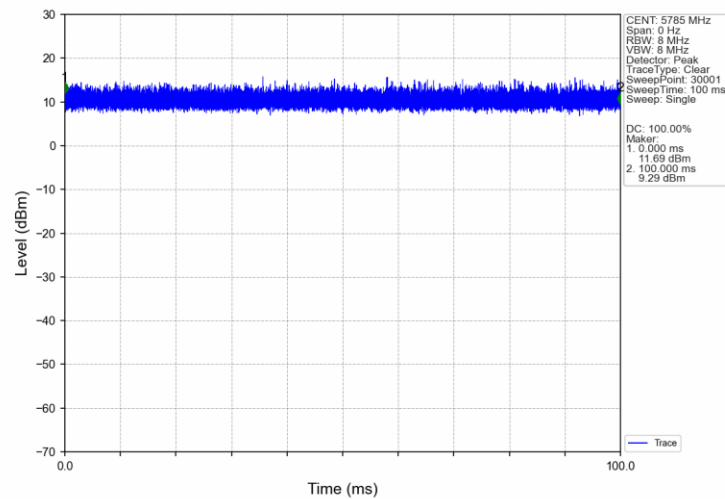
802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT20) LCH 5745MHz Ant1 NTN

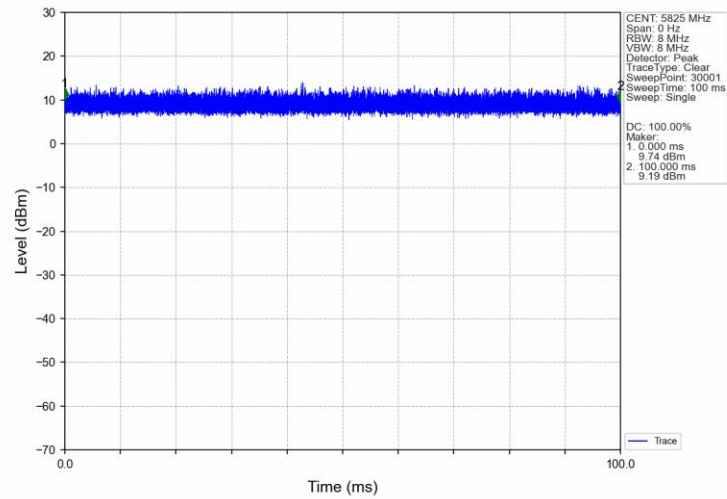


802.11ac(VHT20) MCH 5785MHz Ant1 NTN

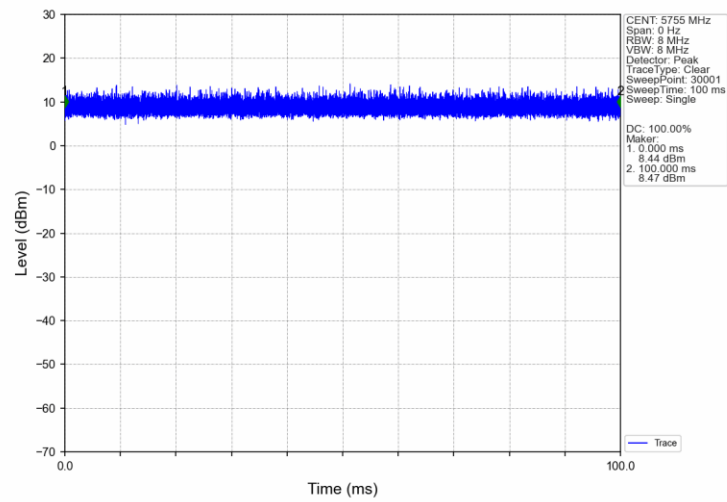




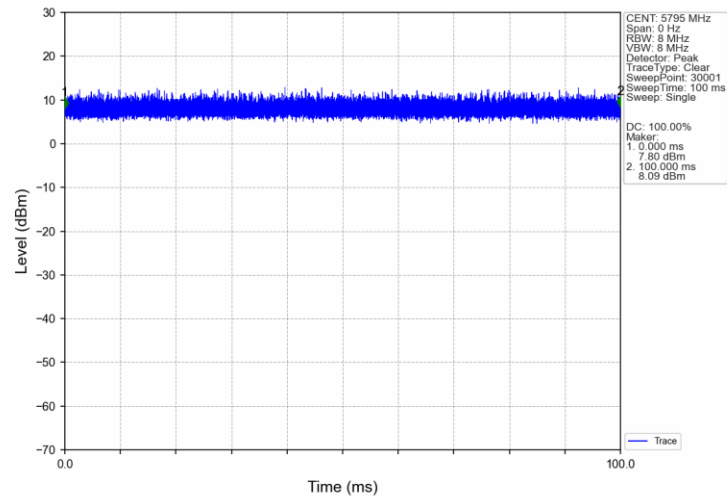
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



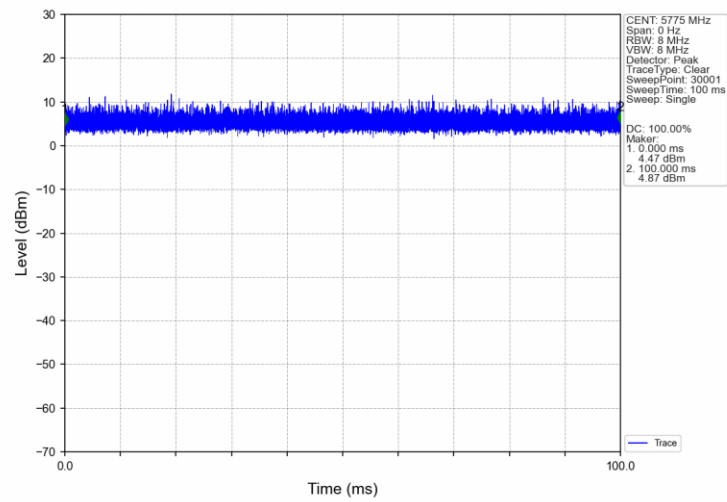
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

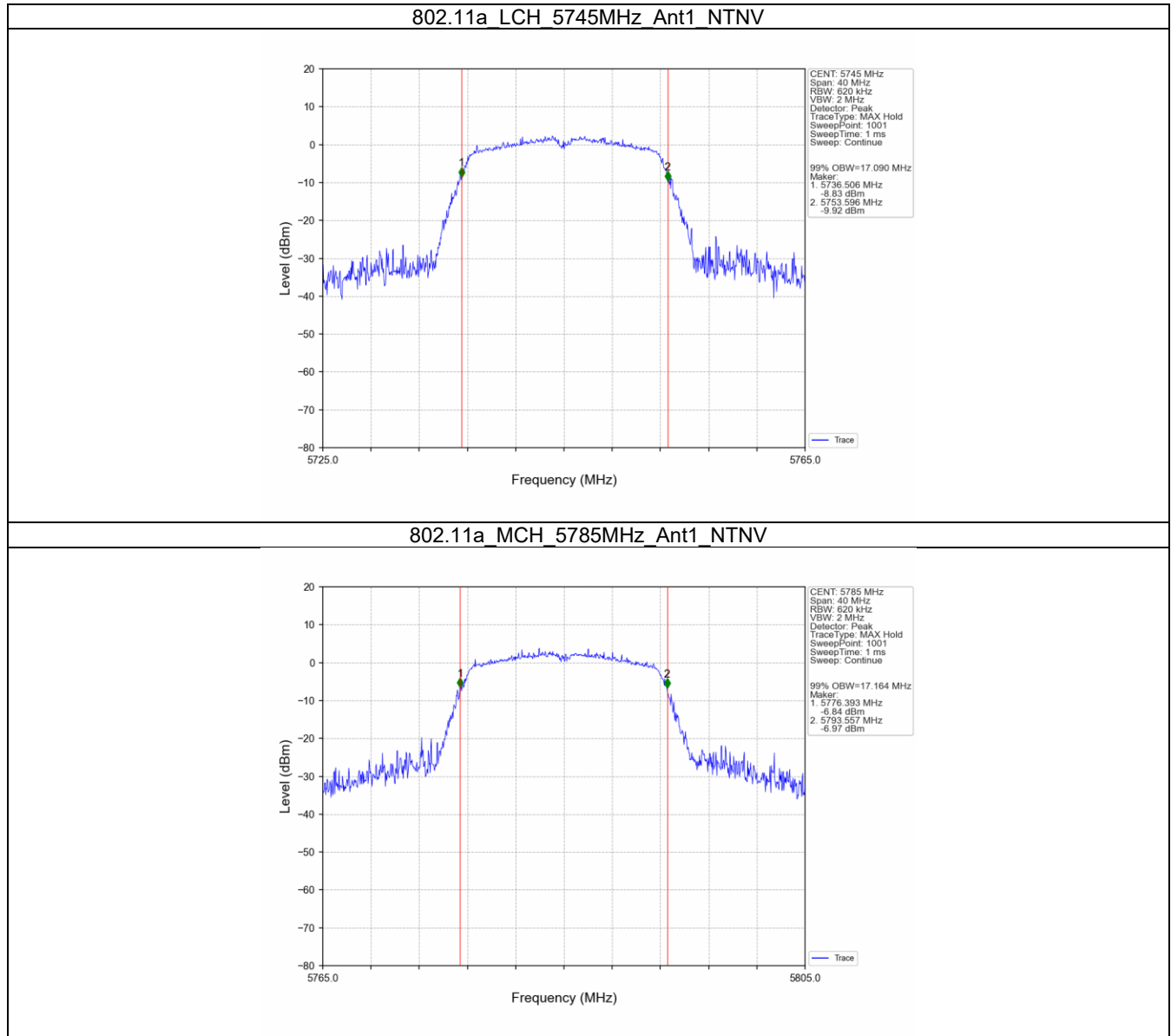
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.090	/	Pass
		5785	1	17.164	/	Pass
		5825	1	17.357	/	Pass
802.11n (HT20)	SISO	5745	1	17.928	/	Pass
		5785	1	17.944	/	Pass
		5825	1	18.107	/	Pass
802.11n (HT40)	SISO	5755	1	36.235	/	Pass
		5795	1	36.351	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.001	/	Pass
		5785	1	18.039	/	Pass
		5825	1	18.079	/	Pass
802.11ac (VHT40)	SISO	5755	1	36.343	/	Pass
		5795	1	36.393	/	Pass
802.11ac (VHT80)	SISO	5775	1	75.912	/	Pass

2.1.2 6dB BW

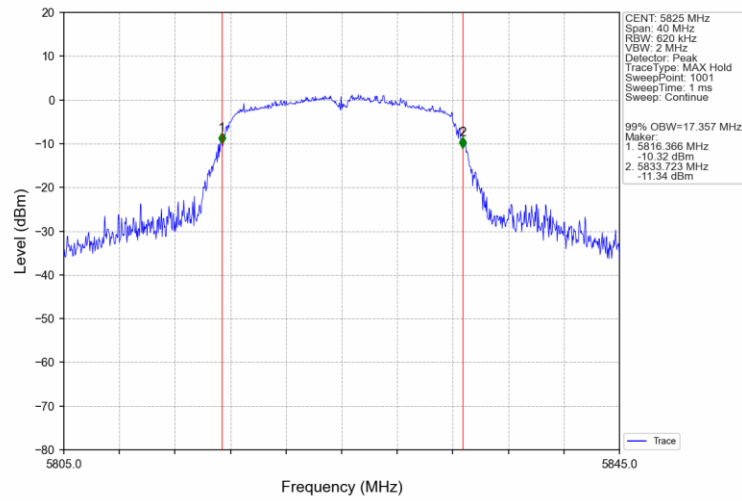
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.359	≥ 0.5	Pass
		5785	1	16.376	≥ 0.5	Pass
		5825	1	16.379	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.602	≥ 0.5	Pass
		5785	1	17.627	≥ 0.5	Pass
		5825	1	17.599	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.309	≥ 0.5	Pass
		5795	1	36.357	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.582	≥ 0.5	Pass
		5785	1	17.535	≥ 0.5	Pass
		5825	1	17.609	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.705	≥ 0.5	Pass
		5795	1	36.348	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	76.326	≥ 0.5	Pass

2.2 Test Graph

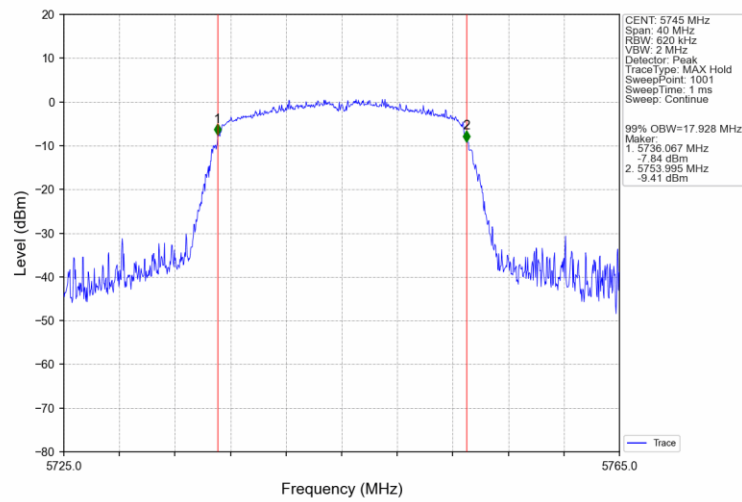
2.2.1 OBW



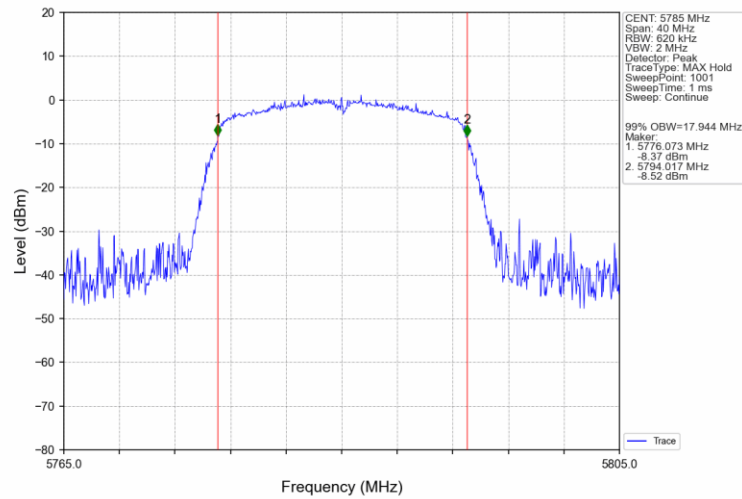
802.11a_HCH_5825MHz_Ant1_NTNV



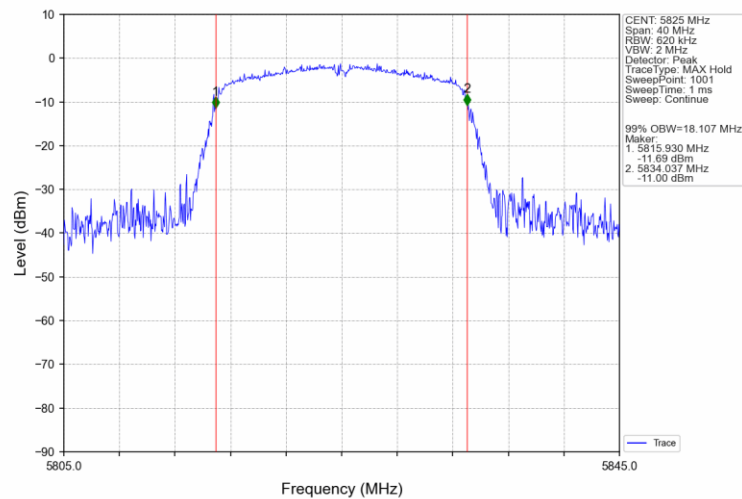
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



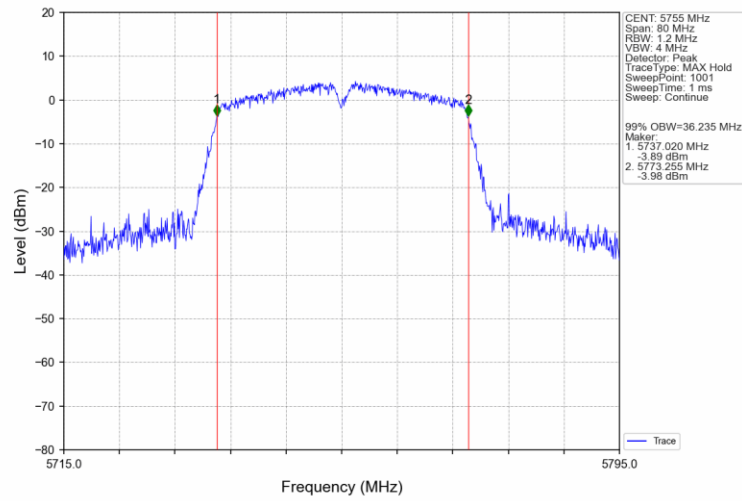
802.11n(HT20) MCH 5785MHz Ant1 NTV



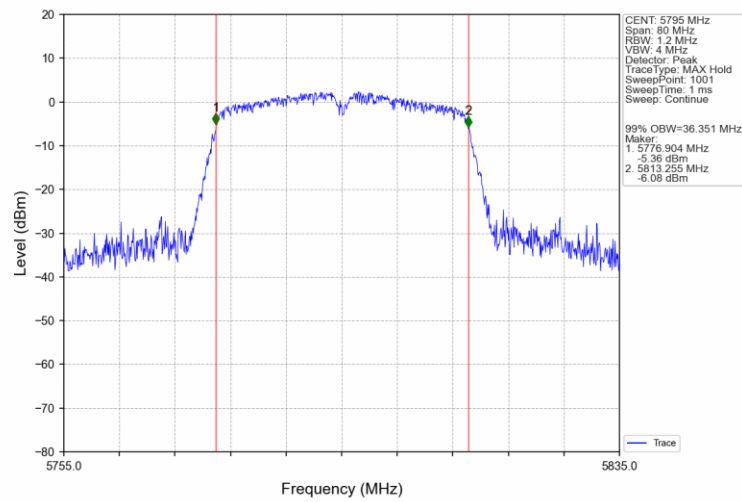
802.11n(HT20) HCH 5825MHz Ant1 NTV



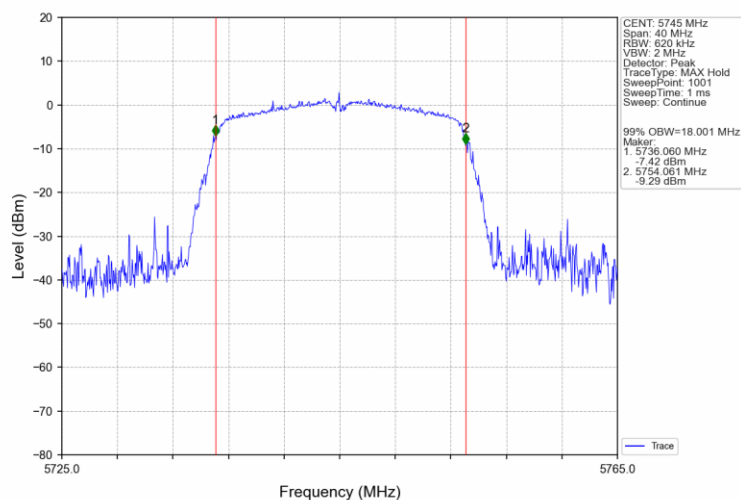
802.11n(HT40) LCH 5755MHz Ant1 NTN



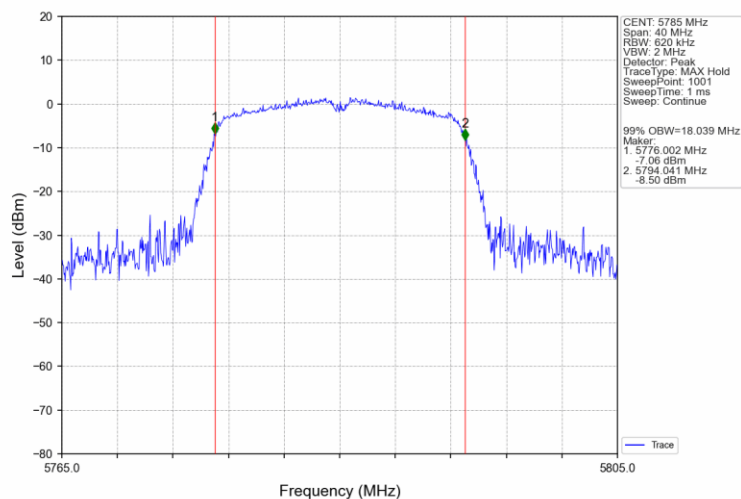
802.11n(HT40) HCH 5795MHz Ant1 NTN



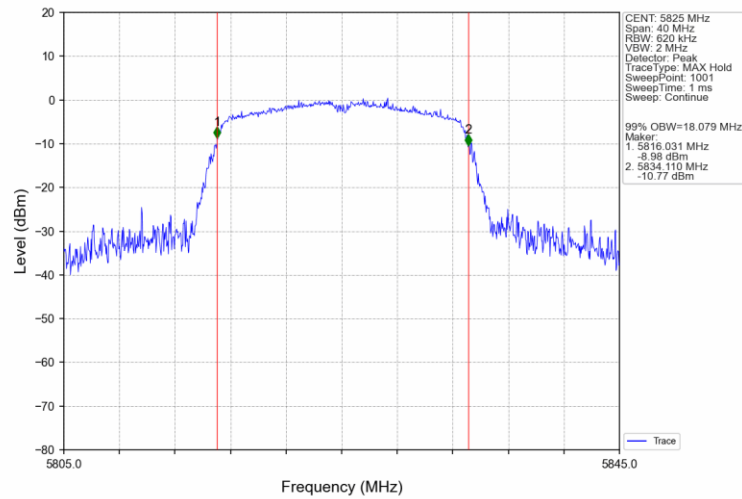
802.11ac(VHT20) LCH 5745MHz Ant1 NTNv



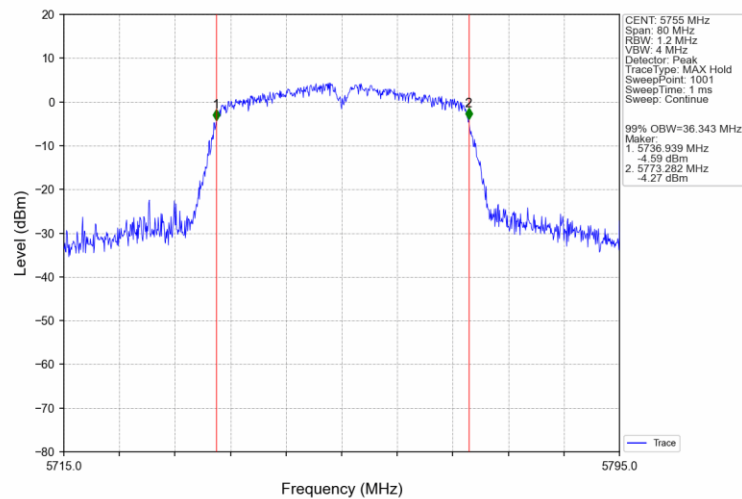
802.11ac(VHT20) MCH 5785MHz Ant1 NTNv



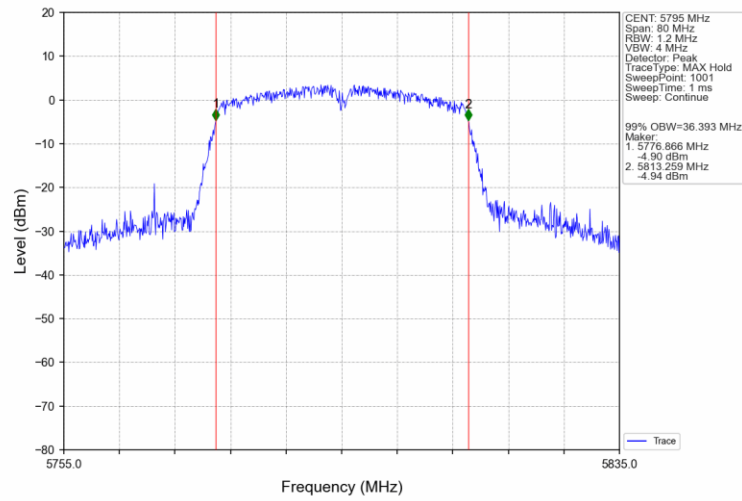
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



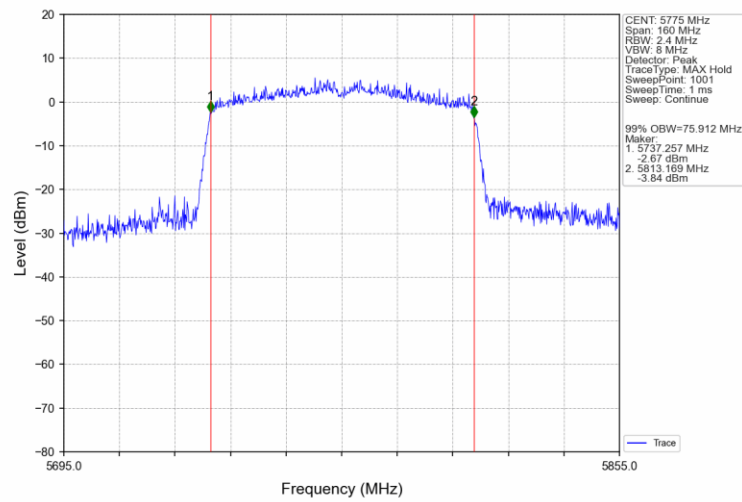
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN

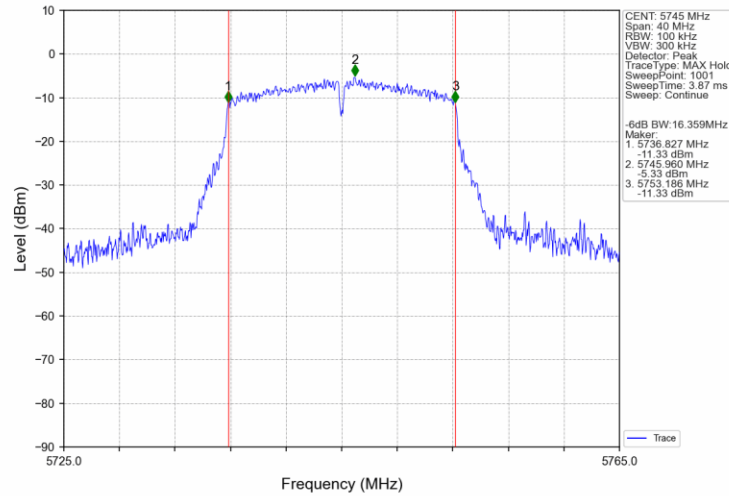


802.11ac(VHT80) MCH 5775MHz Ant1 NTN

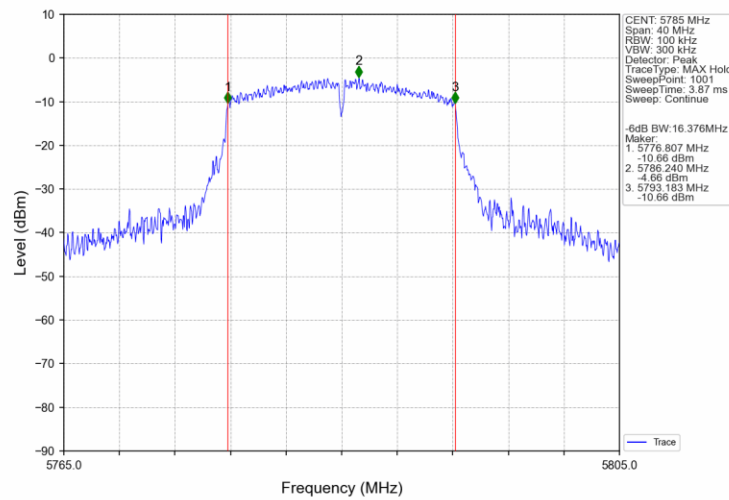


2.2.2 6dB BW

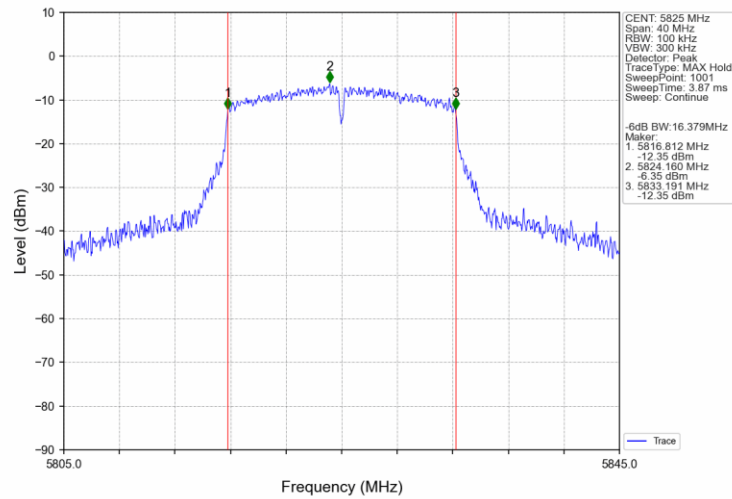
802.11a LCH 5745MHz Ant1 NTN



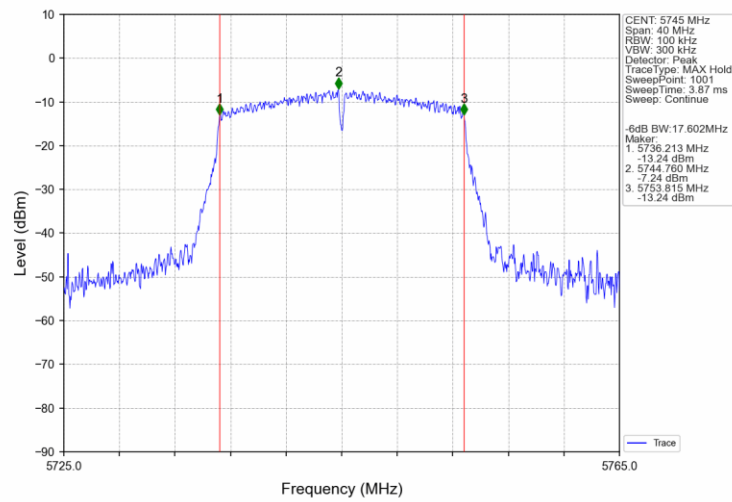
802.11a MCH 5785MHz Ant1 NTN



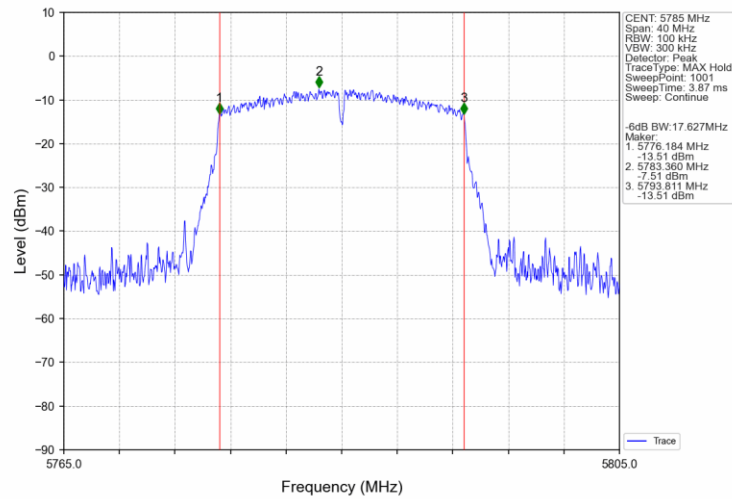
802.11a_HCH_5825MHz_Ant1_NTNV



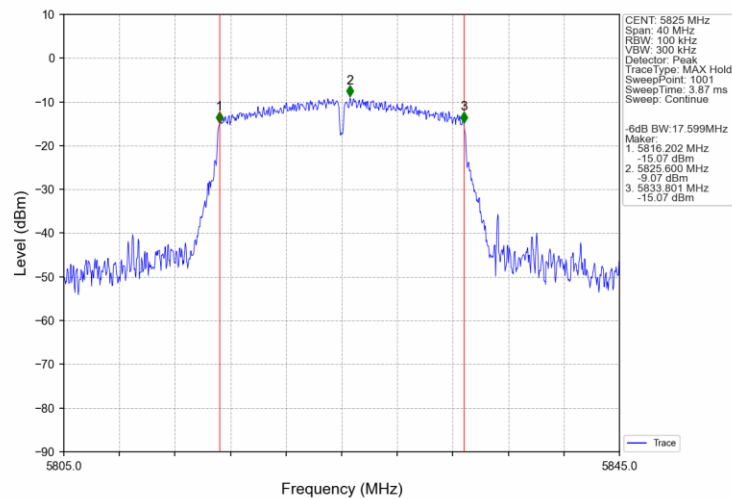
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



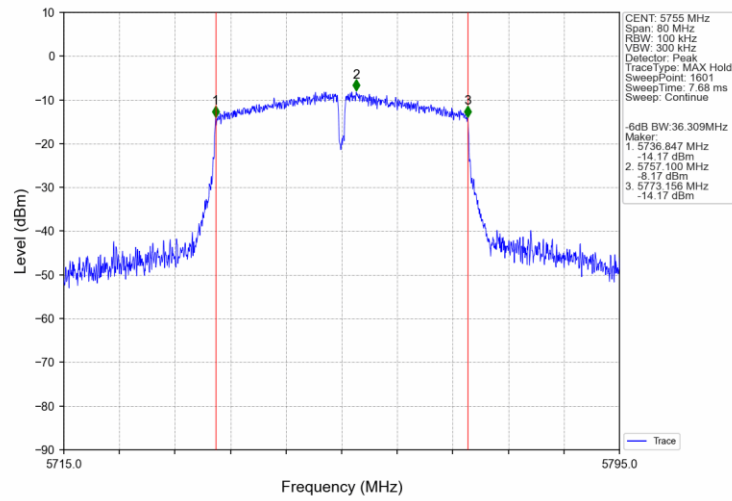
802.11n(HT20) MCH 5785MHz Ant1 NTNv



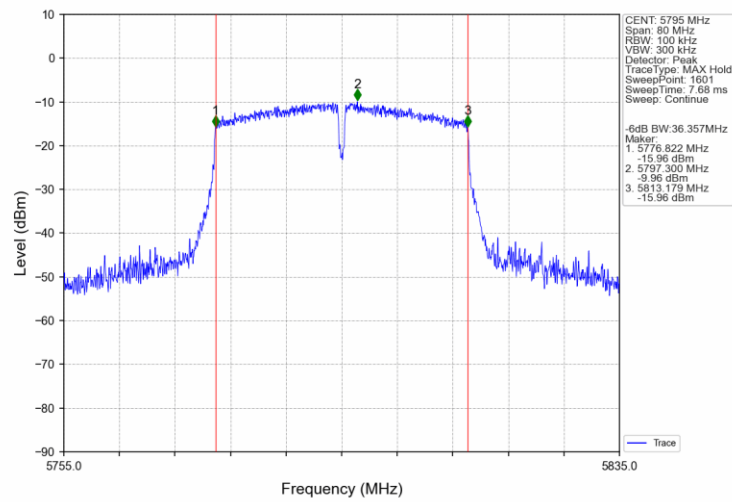
802.11n(HT20) HCH 5825MHz Ant1 NTNv



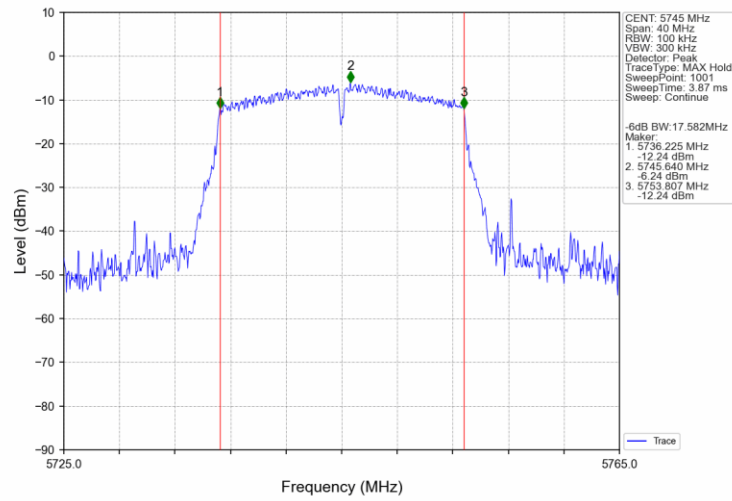
802.11n(HT40) LCH 5755MHz Ant1 NTNv



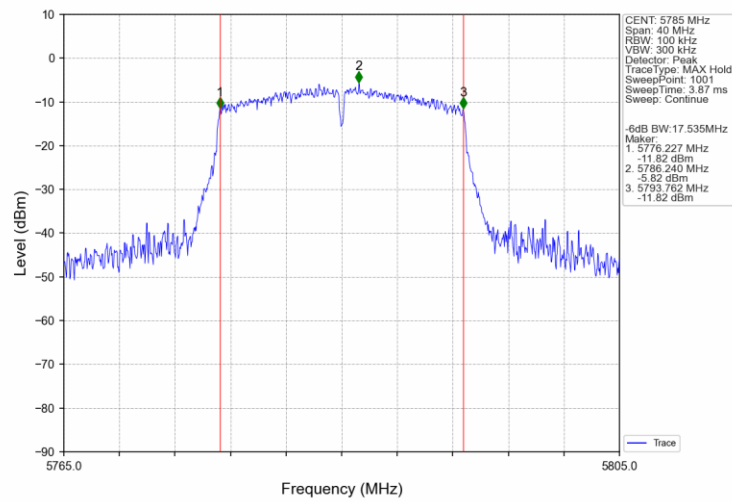
802.11n(HT40) HCH 5795MHz Ant1 NTNv



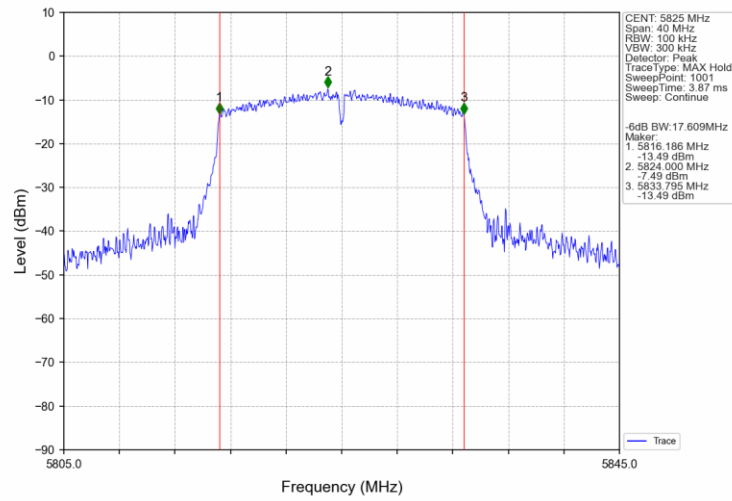
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



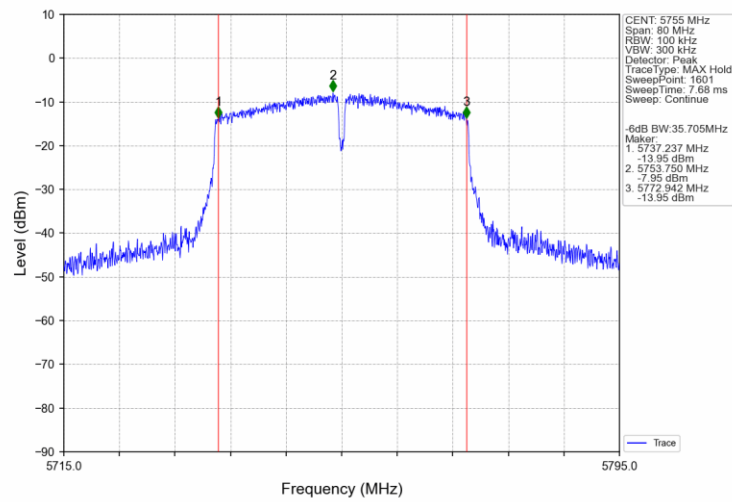
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



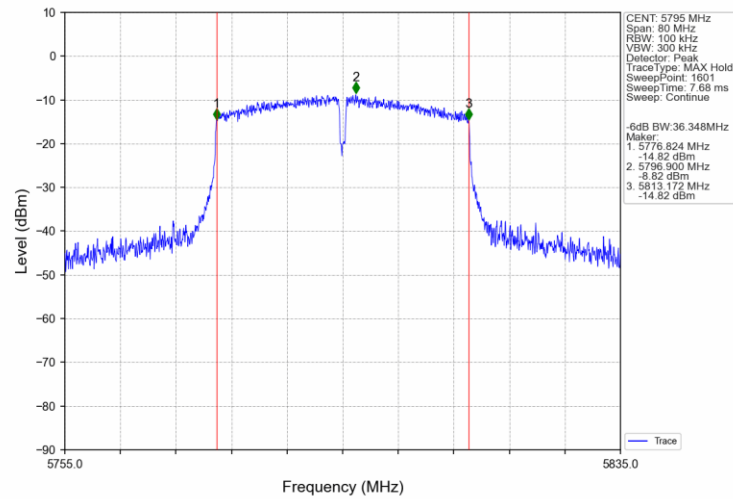
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



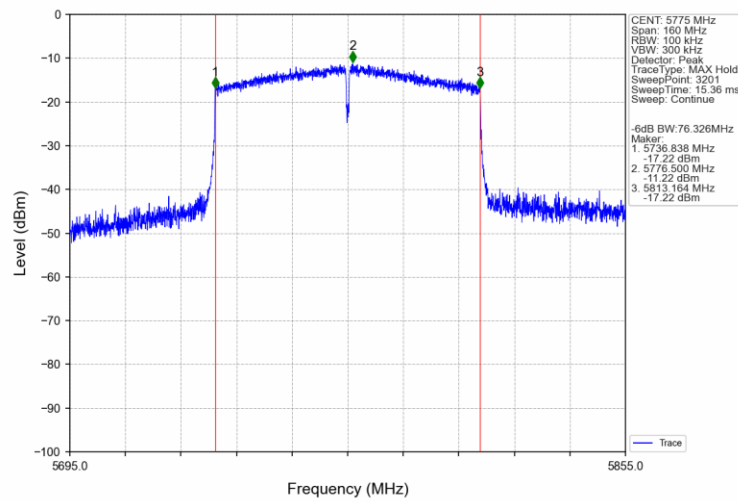
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTNv



802.11ac(VHT80) MCH 5775MHz Ant1 NTNv



3. Maximum Conducted Output Power

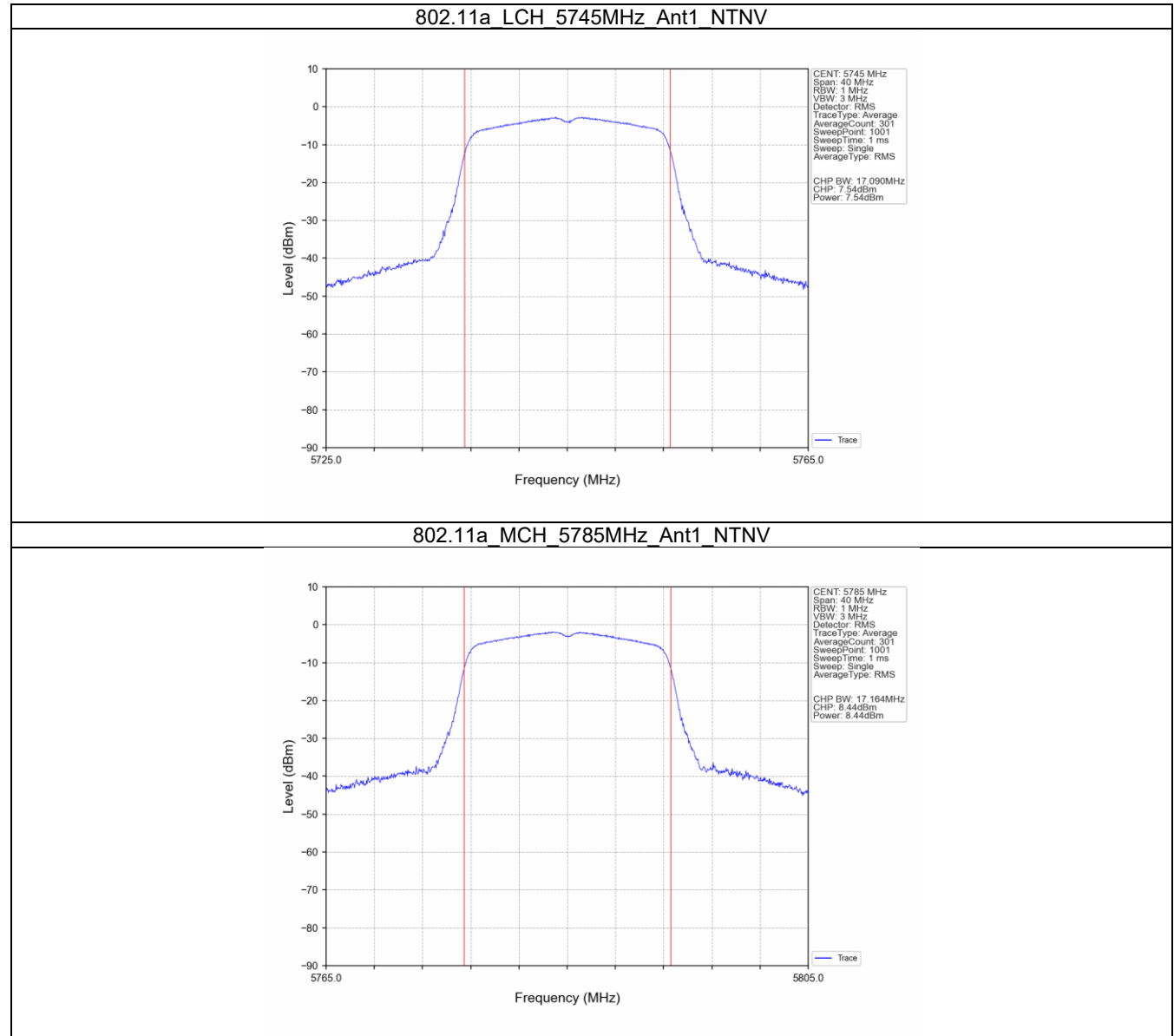
3.1 Test Result

3.1.1 Power

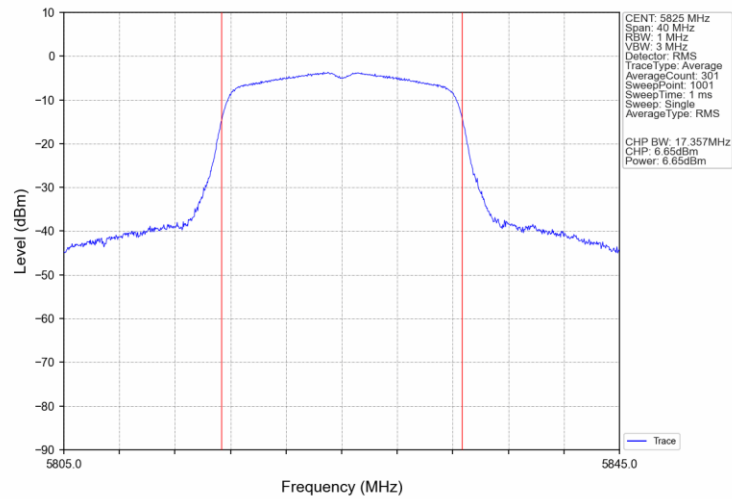
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	7.54	<=30	Pass
		5785	8.44	<=30	Pass
		5825	6.65	<=30	Pass
802.11n (HT20)	SISO	5745	8.55	<=30	Pass
		5785	8.03	<=30	Pass
		5825	6.52	<=30	Pass
802.11n (HT40)	SISO	5755	7.97	<=30	Pass
		5795	6.48	<=30	Pass
802.11ac (VHT20)	SISO	5745	6.94	<=30	Pass
		5785	6.95	<=30	Pass
		5825	5.68	<=30	Pass
802.11ac (VHT40)	SISO	5755	8.08	<=30	Pass
		5795	7.56	<=30	Pass
802.11ac (VHT80)	SISO	5775	7.54	<=30	Pass

3.2 Test Graph

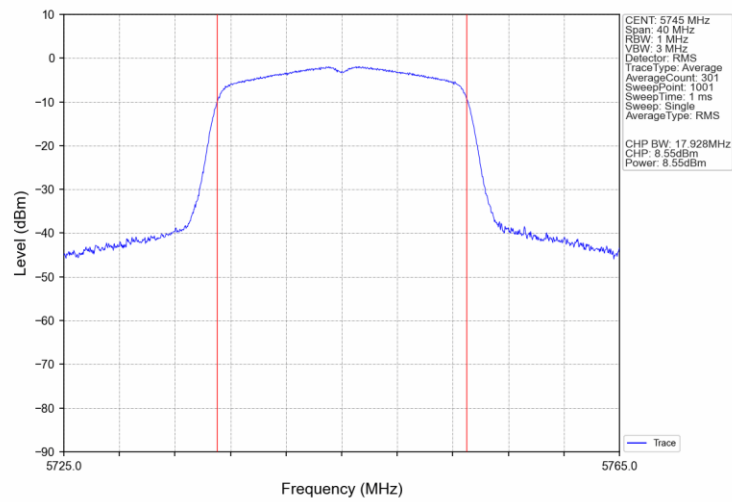
3.2.1 Power



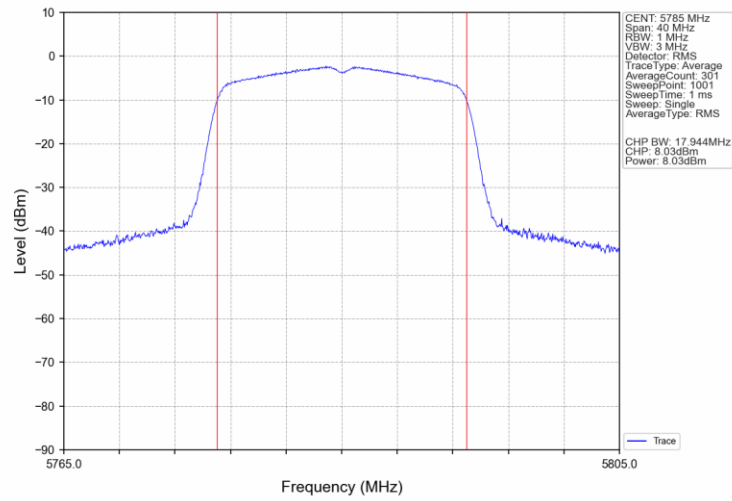
802.11a_HCH_5825MHz_Ant1_NTNV



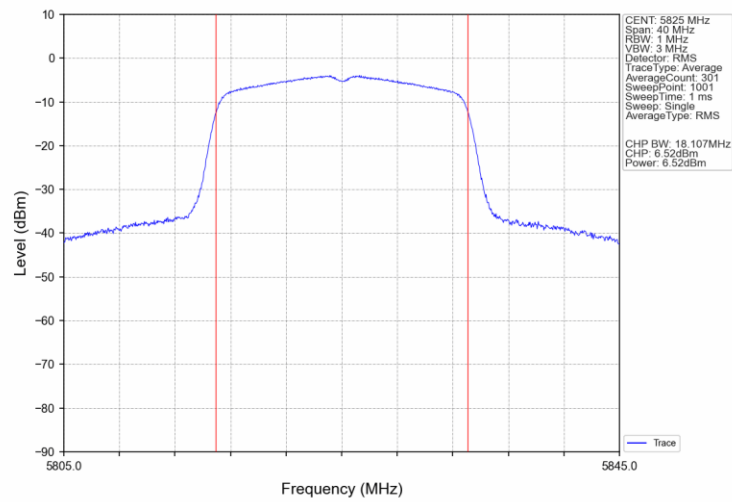
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



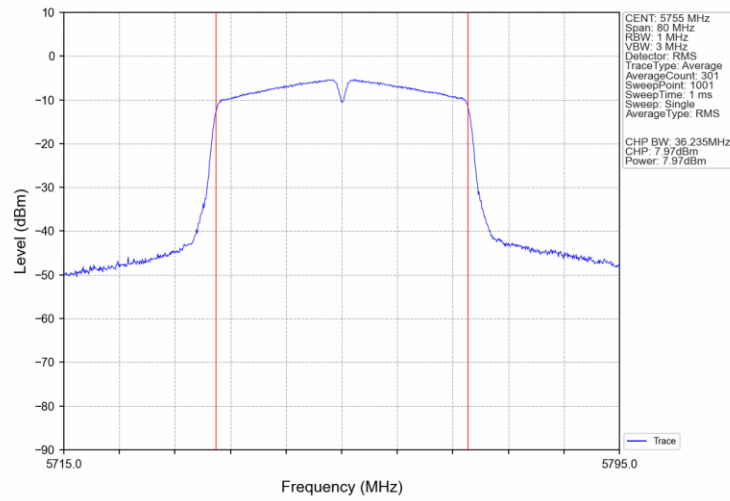
802.11n(HT20) MCH 5785MHz Ant1 NTV



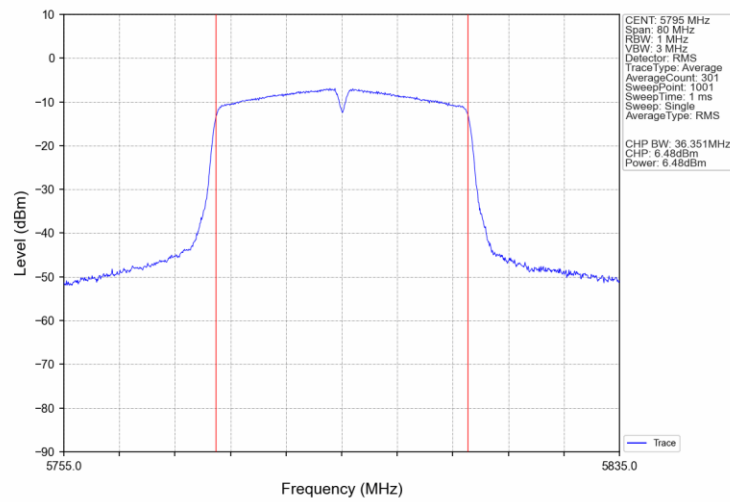
802.11n(HT20) HCH 5825MHz Ant1 NTV



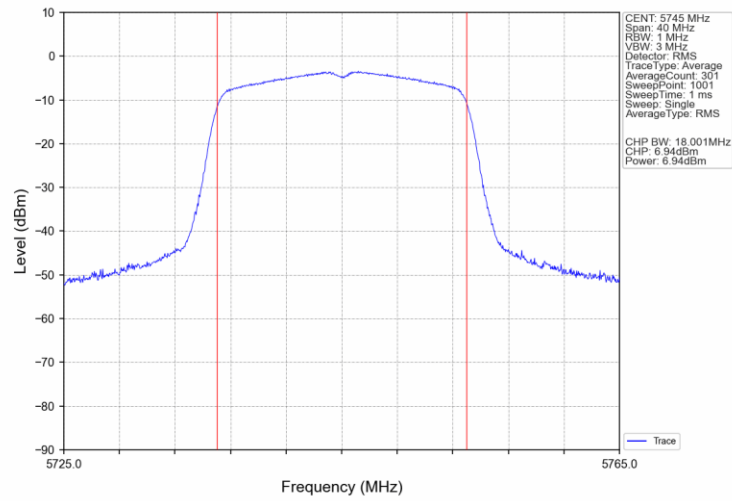
802.11n(HT40) LCH 5755MHz Ant1 NTN



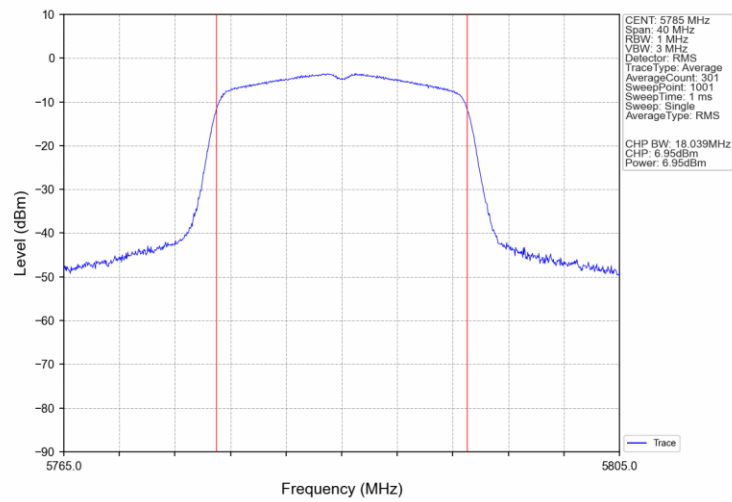
802.11n(HT40) HCH 5795MHz Ant1 NTN



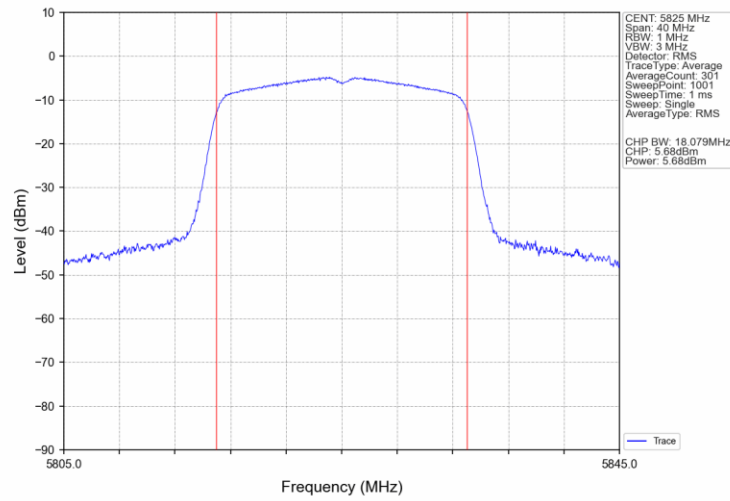
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



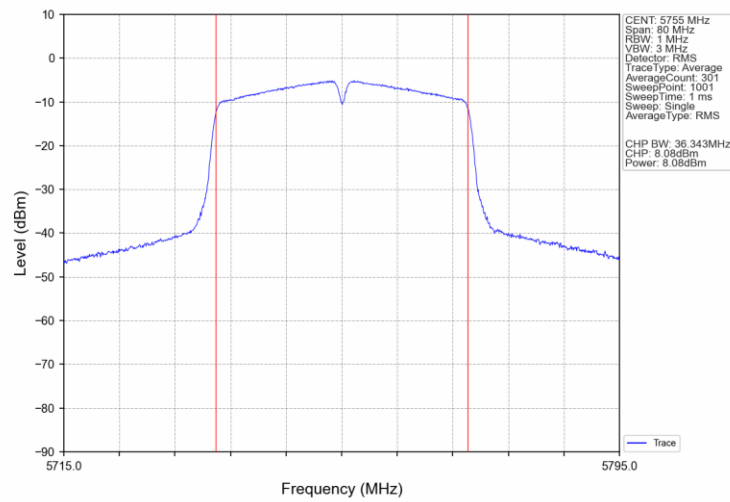
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



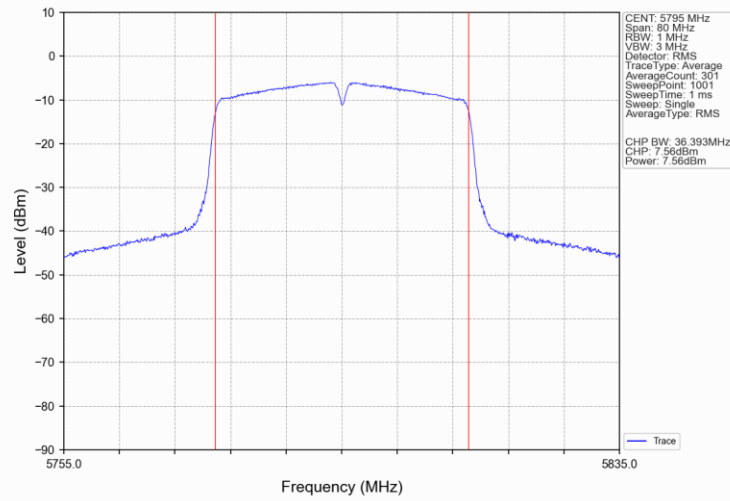
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



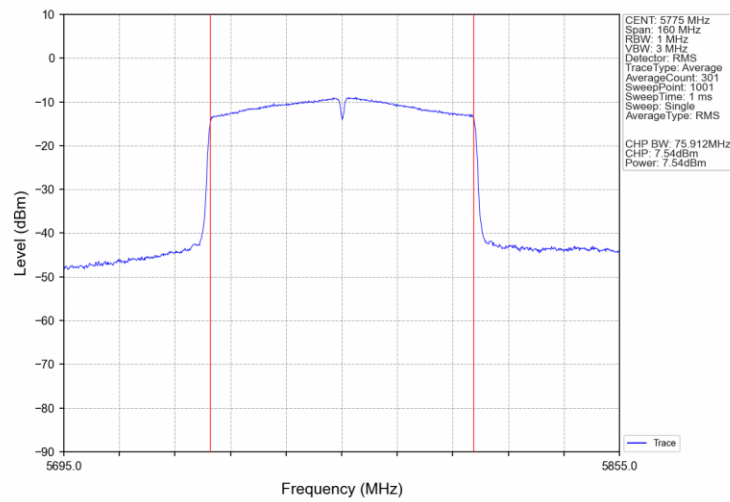
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



4. Maximum Power Spectral Density

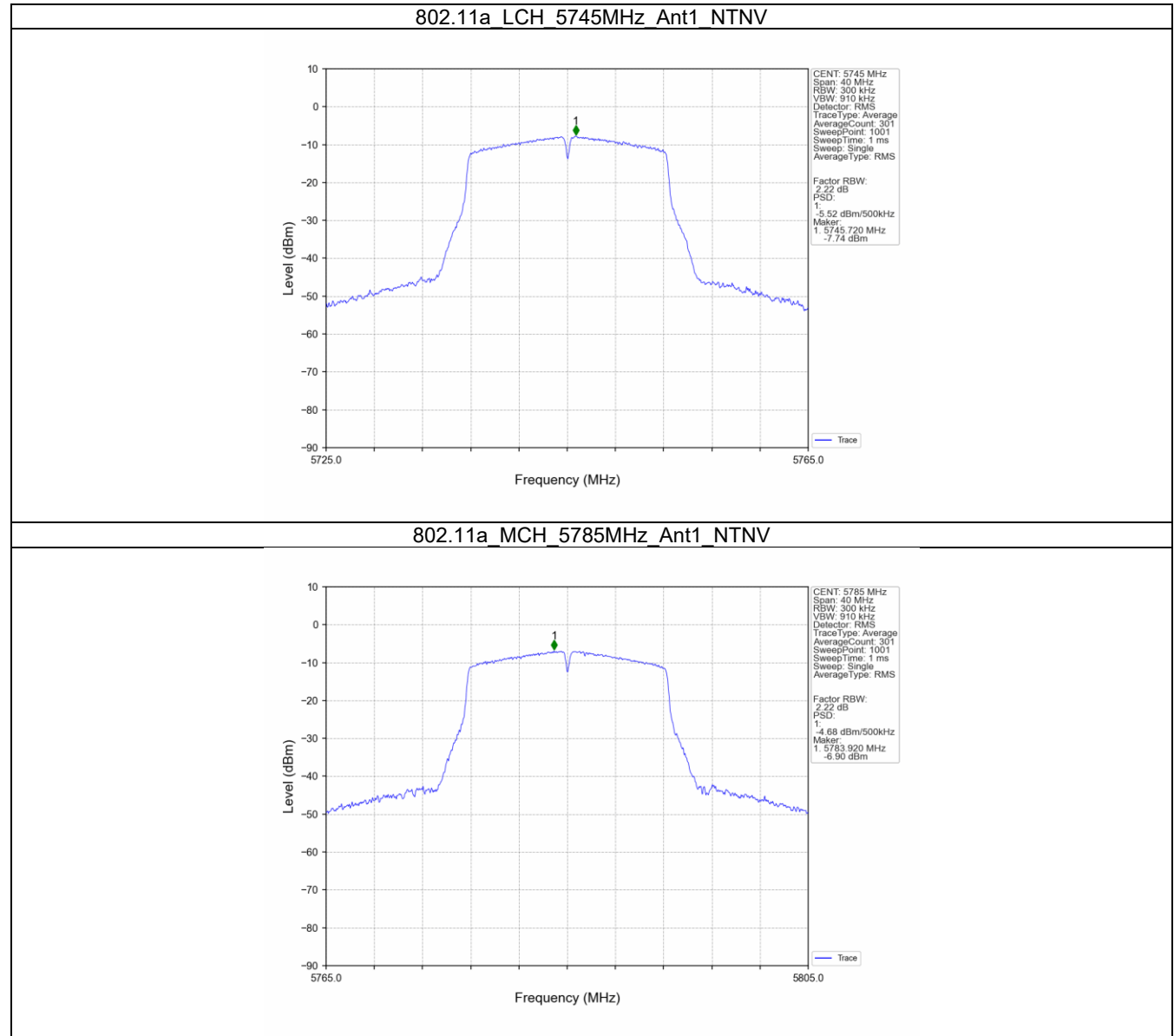
4.1 Test Result

4.1.1 PSD-Band3

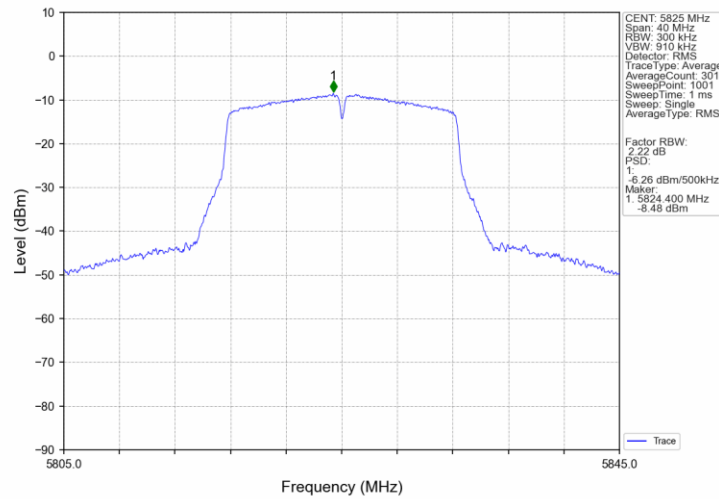
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-5.52	<=30	Pass
		5785	-4.68	<=30	Pass
		5825	-6.26	<=30	Pass
802.11n (HT20)	SISO	5745	-4.71	<=30	Pass
		5785	-5.31	<=30	Pass
		5825	-6.70	<=30	Pass
802.11n (HT40)	SISO	5755	-8.28	<=30	Pass
		5795	-9.83	<=30	Pass
802.11ac (VHT20)	SISO	5745	-6.39	<=30	Pass
		5785	-6.28	<=30	Pass
		5825	-7.68	<=30	Pass
802.11ac (VHT40)	SISO	5755	-8.07	<=30	Pass
		5795	-8.80	<=30	Pass
802.11ac (VHT80)	SISO	5775	-11.61	<=30	Pass

4.2 Test Graph

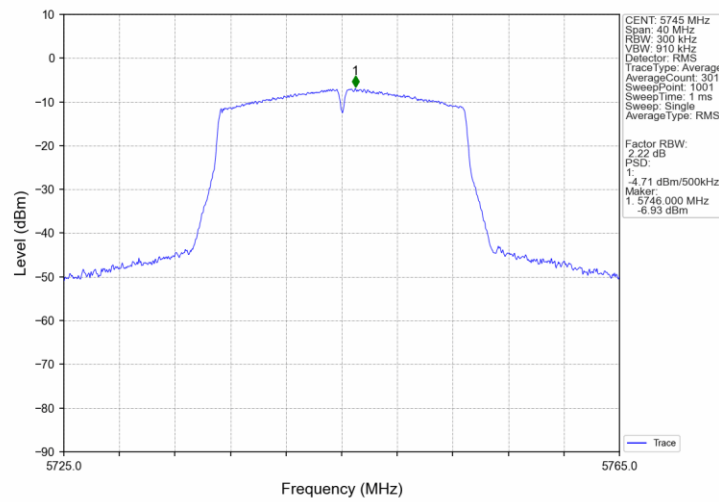
4.2.1 PSD-Band3



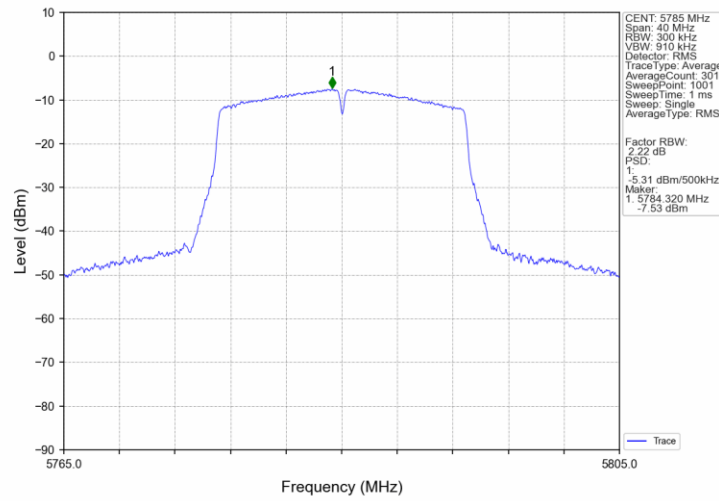
802.11a_HCH_5825MHz_Ant1_NTNV



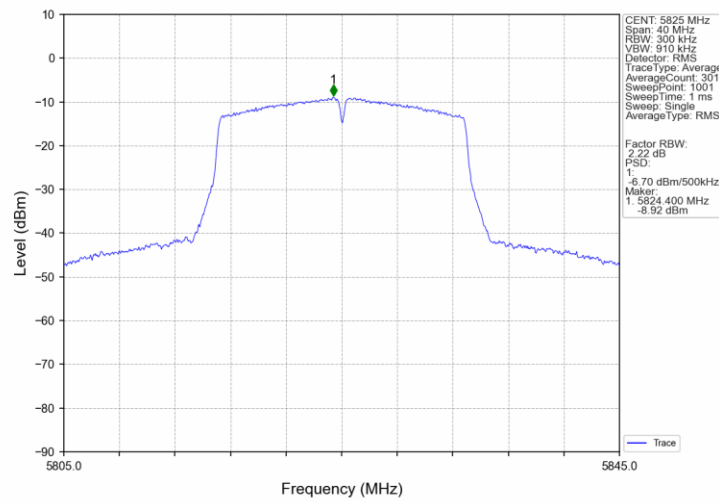
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



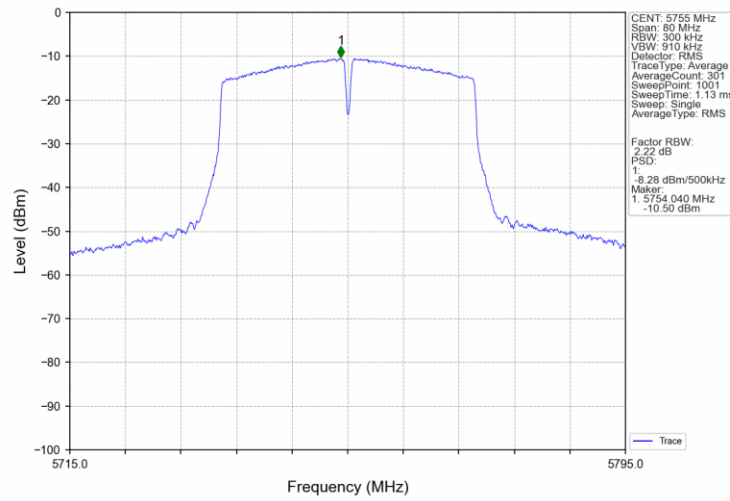
802.11n(HT20) MCH 5785MHz Ant1 NTNv



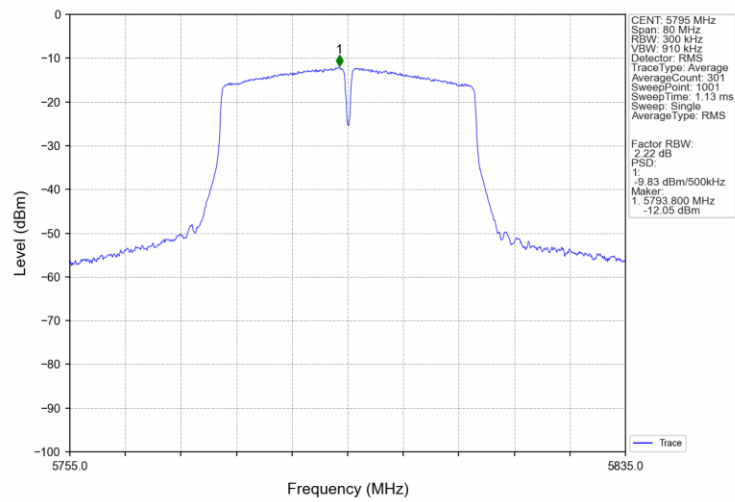
802.11n(HT20) HCH 5825MHz Ant1 NTNv



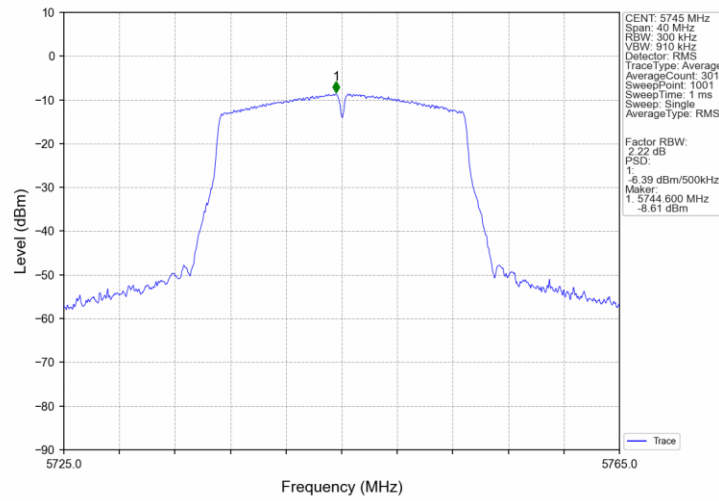
802.11n(HT40) LCH 5755MHz Ant1 NTN



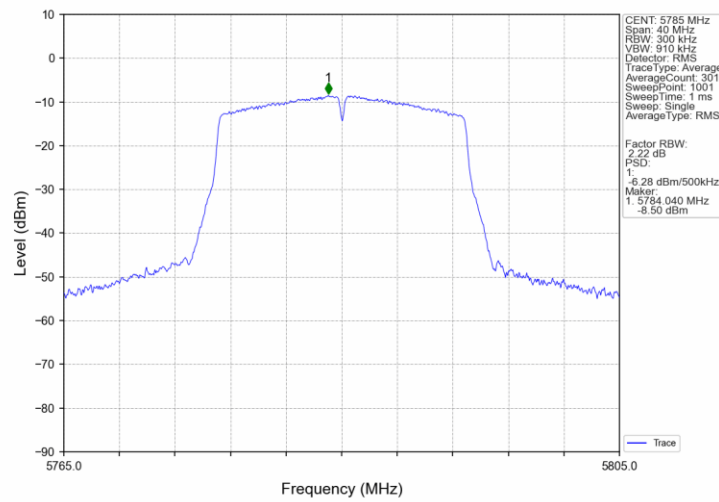
802.11n(HT40) HCH 5795MHz Ant1 NTN



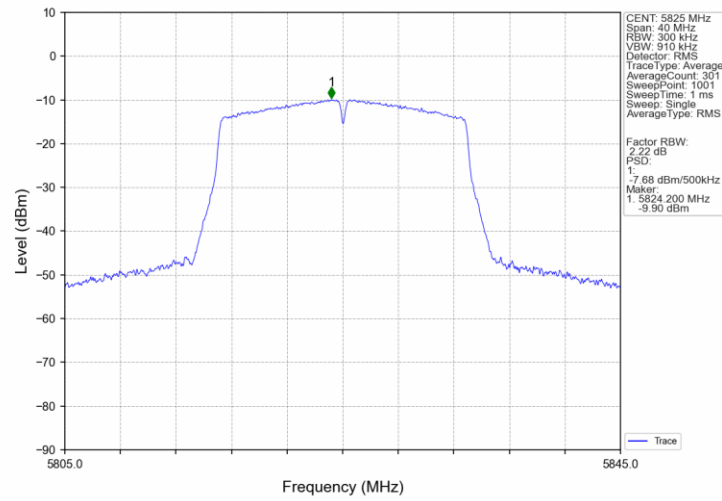
802.11ac(VHT20) LCH 5745MHz Ant1 NTNv



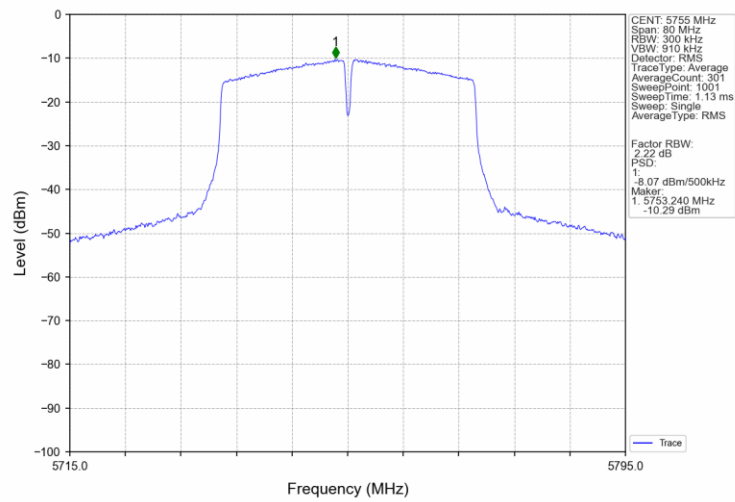
802.11ac(VHT20) MCH 5785MHz Ant1 NTNv



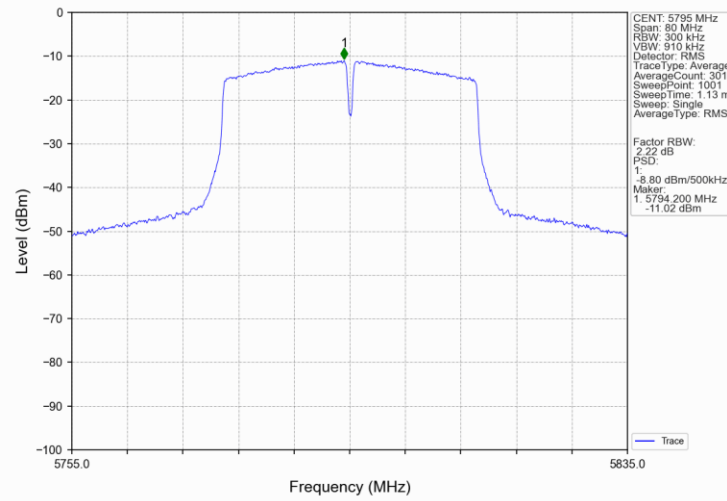
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



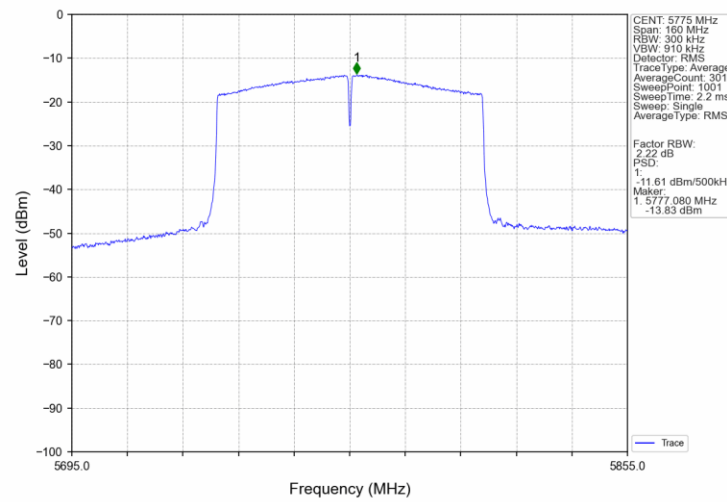
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



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 (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	3.23	5744.985	5725 to 5850	Pass
				3.80	5744.985	5725 to 5850	Pass
				4.37	5744.985	5725 to 5850	Pass
			-30	3.80	5744.985	5725 to 5850	Pass
			-20	3.80	5744.985	5725 to 5850	Pass
			-10	3.80	5744.984	5725 to 5850	Pass
			0	3.80	5744.984	5725 to 5850	Pass
			10	3.80	5744.984	5725 to 5850	Pass
			30	3.80	5744.984	5725 to 5850	Pass
			40	3.80	5744.984	5725 to 5850	Pass
			50	3.80	5744.984	5725 to 5850	Pass
		5785	20	3.23	5784.984	5725 to 5850	Pass
				3.80	5784.984	5725 to 5850	Pass
				4.37	5784.984	5725 to 5850	Pass
			-30	3.80	5784.984	5725 to 5850	Pass
			-20	3.80	5784.984	5725 to 5850	Pass
			-10	3.80	5784.984	5725 to 5850	Pass
			0	3.80	5784.984	5725 to 5850	Pass
			10	3.80	5784.983	5725 to 5850	Pass
			30	3.80	5784.983	5725 to 5850	Pass
			40	3.80	5784.983	5725 to 5850	Pass
			50	3.80	5784.983	5725 to 5850	Pass
		5825	20	3.23	5824.983	5725 to 5850	Pass
				3.80	5824.983	5725 to 5850	Pass
				4.37	5824.983	5725 to 5850	Pass
			-30	3.80	5824.983	5725 to 5850	Pass
			-20	3.80	5824.983	5725 to 5850	Pass
			-10	3.80	5824.983	5725 to 5850	Pass
			0	3.80	5824.983	5725 to 5850	Pass
			10	3.80	5824.983	5725 to 5850	Pass
			30	3.80	5824.983	5725 to 5850	Pass
			40	3.80	5824.983	5725 to 5850	Pass
			50	3.80	5824.983	5725 to 5850	Pass
		5755	20	3.23	5754.984	5725 to 5850	Pass
				3.80	5754.984	5725 to 5850	Pass
				4.37	5754.984	5725 to 5850	Pass
			-30	3.80	5754.984	5725 to 5850	Pass
			-20	3.80	5754.984	5725 to 5850	Pass
			-10	3.80	5754.984	5725 to 5850	Pass
			0	3.80	5754.984	5725 to 5850	Pass
			10	3.80	5754.984	5725 to 5850	Pass
			30	3.80	5754.983	5725 to 5850	Pass
			40	3.80	5754.983	5725 to 5850	Pass
			50	3.80	5754.983	5725 to 5850	Pass
		5795	20	3.23	5794.983	5725 to 5850	Pass
				3.80	5794.983	5725 to 5850	Pass



				4.37	5794.983	5725 to 5850	Pass
			-30	3.80	5794.983	5725 to 5850	Pass
			-20	3.80	5794.983	5725 to 5850	Pass
			-10	3.80	5794.983	5725 to 5850	Pass
			0	3.80	5794.983	5725 to 5850	Pass
			10	3.80	5794.983	5725 to 5850	Pass
			30	3.80	5794.983	5725 to 5850	Pass
			40	3.80	5794.983	5725 to 5850	Pass
			50	3.80	5794.983	5725 to 5850	Pass
		5775	20	3.23	5774.982	5725 to 5850	Pass
				3.80	5774.982	5725 to 5850	Pass
				4.37	5774.982	5725 to 5850	Pass
			-30	3.80	5774.982	5725 to 5850	Pass
			-20	3.80	5774.982	5725 to 5850	Pass
			-10	3.80	5774.982	5725 to 5850	Pass
			0	3.80	5774.982	5725 to 5850	Pass
			10	3.80	5774.982	5725 to 5850	Pass
			30	3.80	5774.982	5725 to 5850	Pass
			40	3.80	5774.982	5725 to 5850	Pass
			50	3.80	5774.982	5725 to 5850	Pass

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