

Appendix RF test data for 5G WIFI_UNII_Band 3

1. Duty Cycle

1.1 Test Result

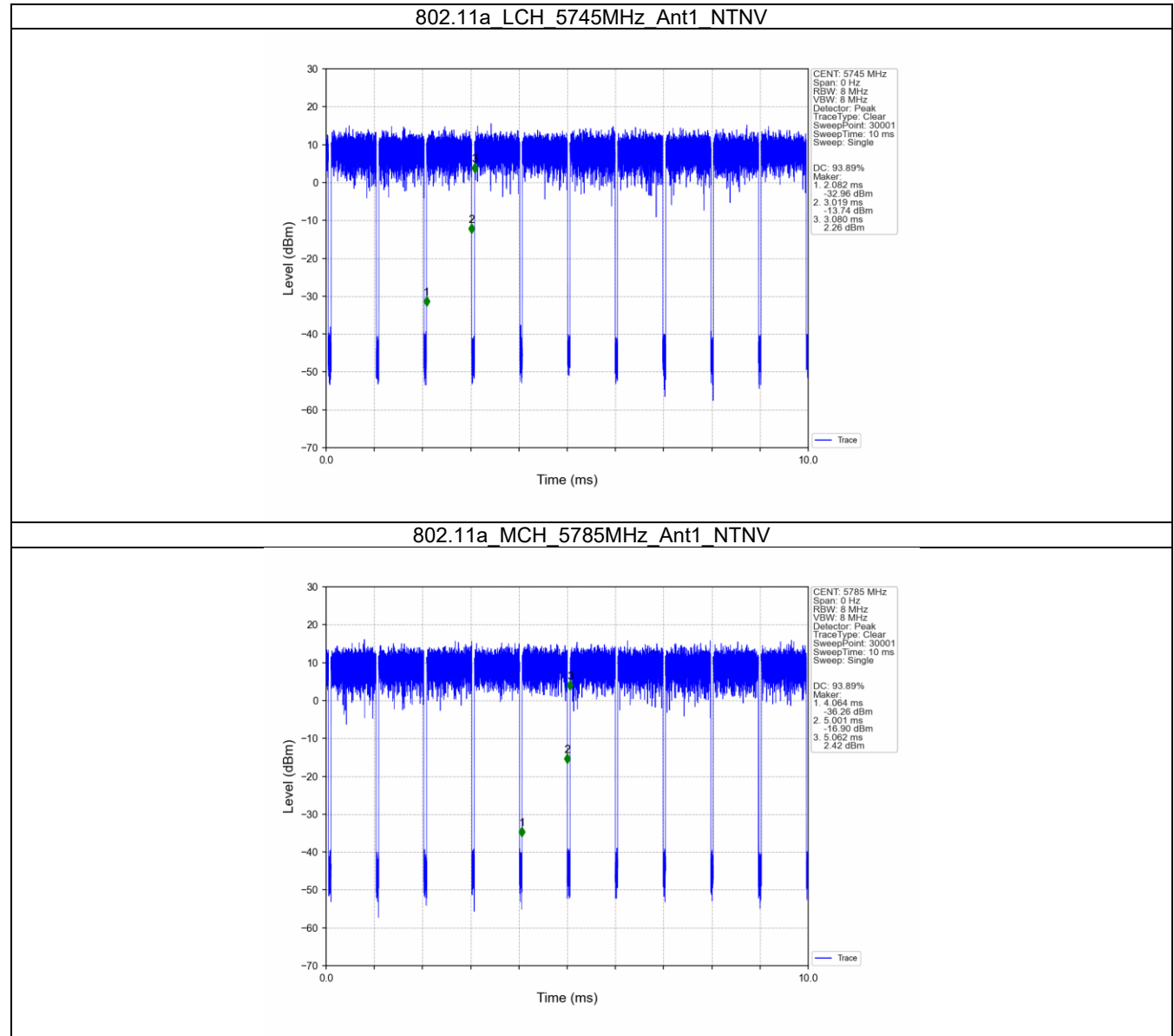
1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5745	/	/	0.937	0.998	93.89	0.27	0.89
		5785	/	/	0.937	0.998	93.89	0.27	0.89
		5825	/	/	0.937	0.998	93.89	0.27	0.92
802.11n (HT20)	MIMO	5745	/	/	1.309	1.370	95.55	0.20	0.66
		5785	/	/	1.309	1.370	95.55	0.20	0.69
		5825	/	/	1.309	1.369	95.62	0.19	0.62
802.11n (HT40)	MIMO	5755	/	/	0.649	0.709	91.54	0.38	1.22
		5795	/	/	0.649	0.709	91.54	0.38	1.19
802.11ac (VHT20)	MIMO	5745	/	/	0.477	0.538	88.66	0.52	1.51
		5785	/	/	0.479	0.538	89.03	0.50	1.55
		5825	/	/	0.476	0.537	88.64	0.52	1.54
802.11ac (VHT40)	MIMO	5755	/	/	0.256	0.317	80.76	0.93	2.42
		5795	/	/	0.259	0.318	81.45	0.89	2.45
802.11ac (VHT80)	MIMO	5775	/	/	0.151	0.210	71.90	1.43	3.29
802.11ax (HEW20)	MIMO	5745	SU	/	0.427	0.477	89.52	0.48	0.07
		5785	SU	/	0.425	0.477	89.10	0.50	0.10
		5825	SU	/	0.427	0.477	89.52	0.48	0.07
802.11ax (HEW40)	MIMO	5755	SU	/	0.433	0.495	87.47	0.58	1.66
		5795	SU	/	0.433	0.494	87.65	0.57	1.66
802.11ax (HEW80)	MIMO	5775	SU	/	0.418	0.477	87.63	0.57	1.72
802.11be (EHT20)	MIMO	5745	SU	/	0.436	0.486	89.71	0.47	0.07
		5785	SU	/	0.433	0.485	89.28	0.49	0.07
		5825	SU	/	0.436	0.485	89.90	0.46	0.07
802.11be (EHT40)	MIMO	5755	SU	/	0.444	0.503	88.27	0.54	1.65
		5795	SU	/	0.441	0.503	87.67	0.57	1.64
802.11be (EHT80)	MIMO	5775	SU	/	0.426	0.485	87.84	0.56	1.70

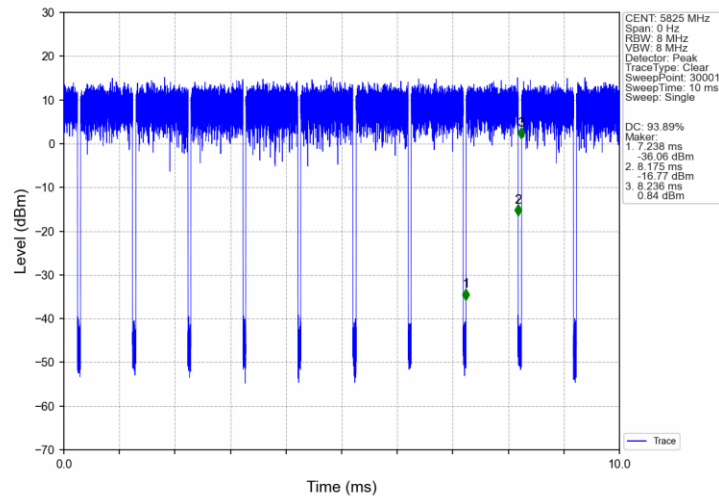
Note: Antennas 1, 2 and 3 were all tested, with the worst result recorded for Antenna 1.

1.2 Test Graph

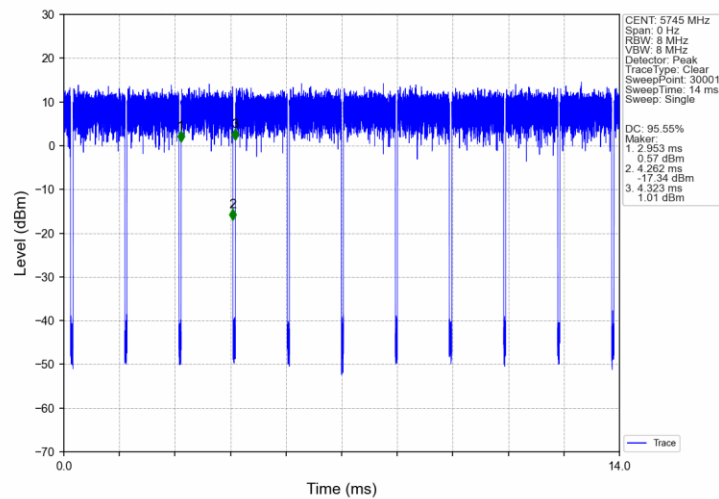
1.2.1 Ant1



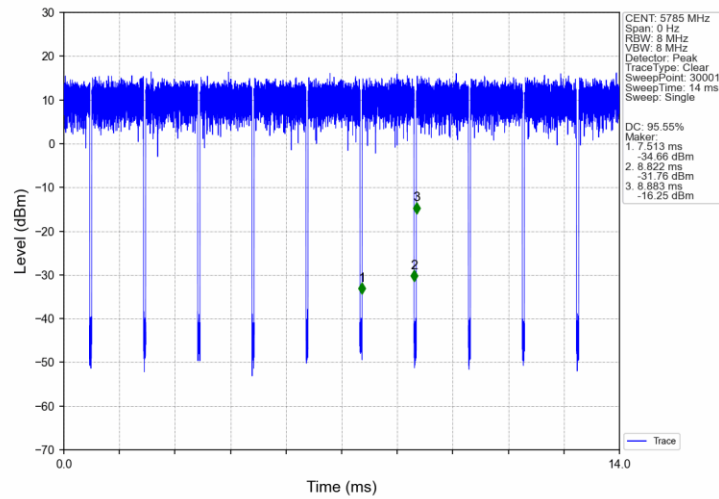
802.11a_HCH_5825MHz_Ant1_NTNV



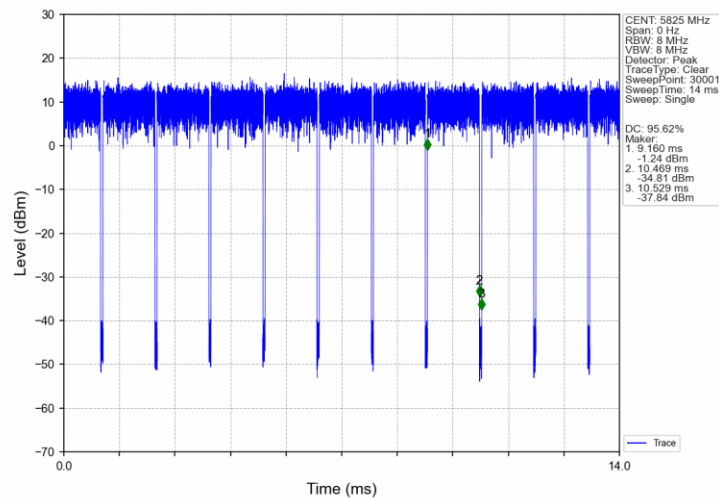
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



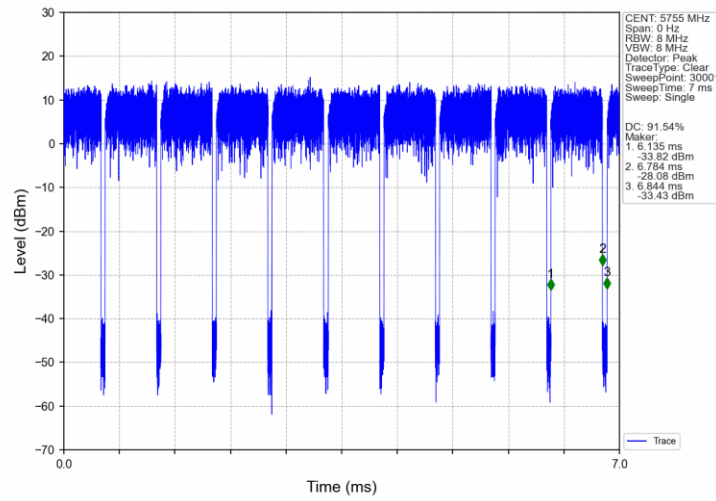
802.11n(HT20) MCH 5785MHz Ant1 NTN



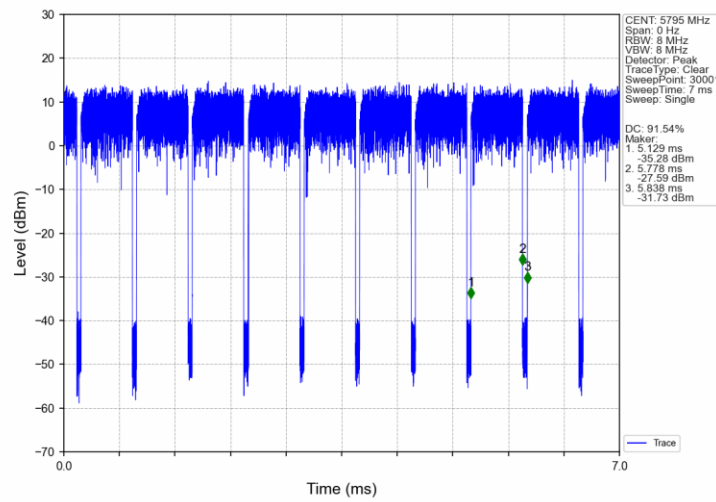
802.11n(HT20) HCH 5825MHz Ant1 NTN



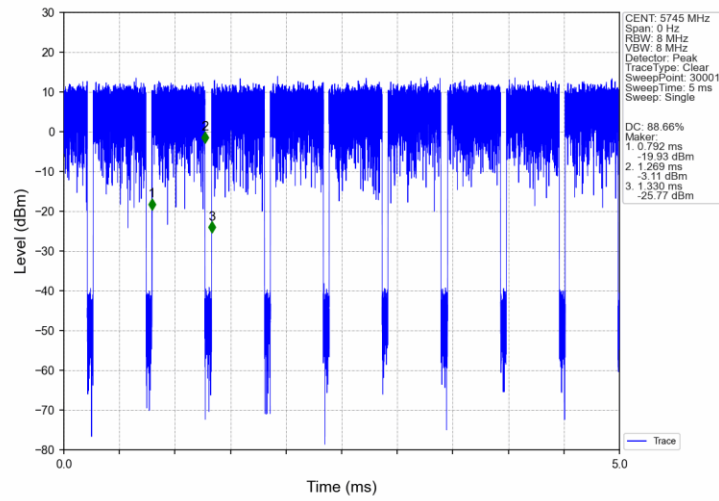
802.11n(HT40) LCH 5755MHz Ant1 NTN



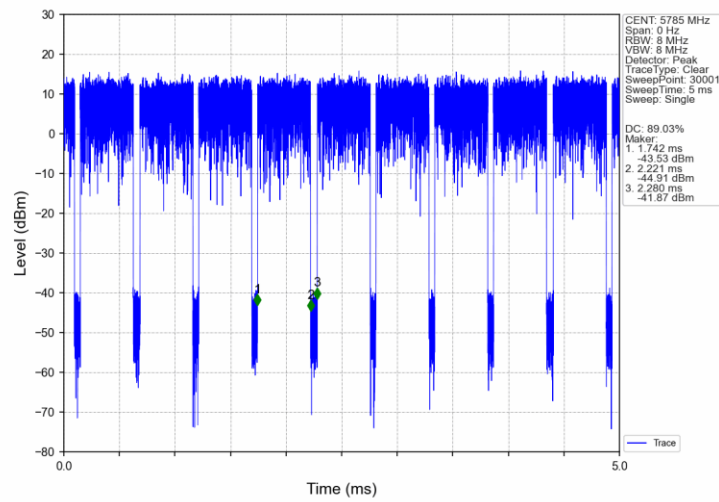
802.11n(HT40) HCH 5795MHz Ant1 NTN



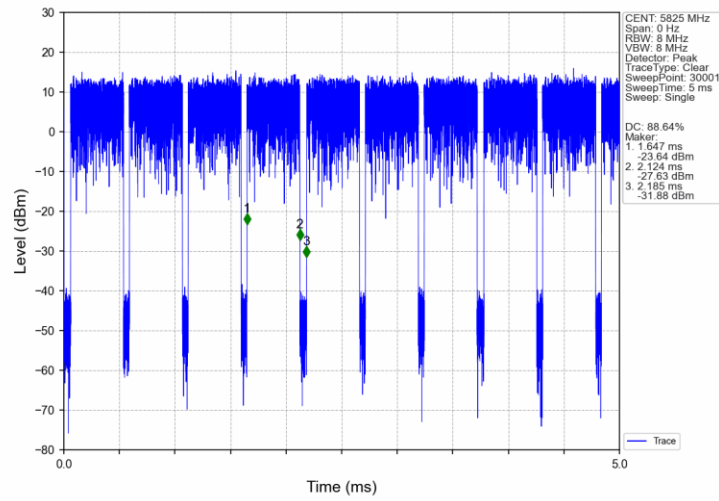
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



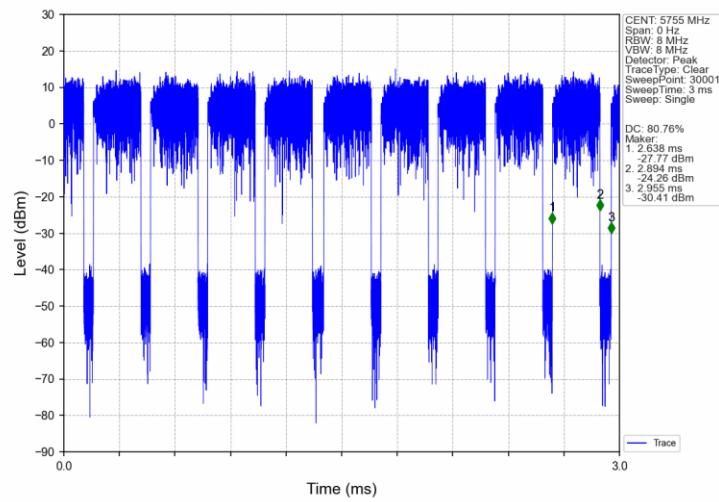
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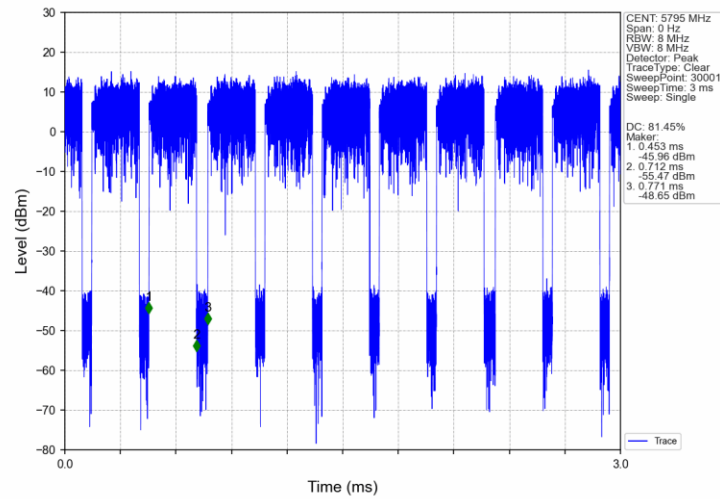
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



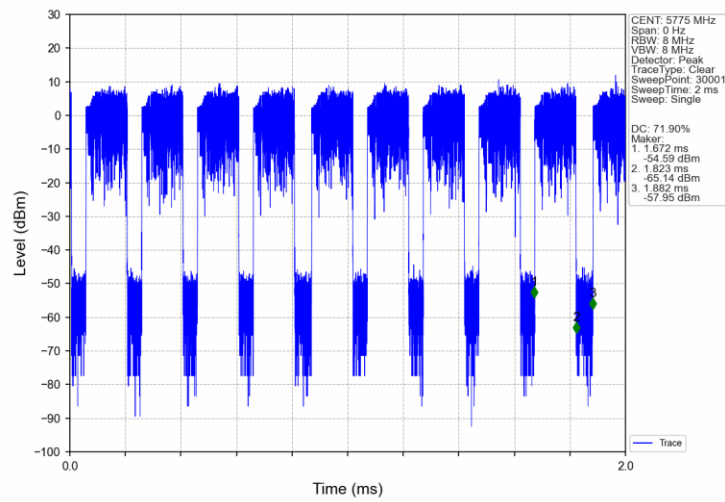
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



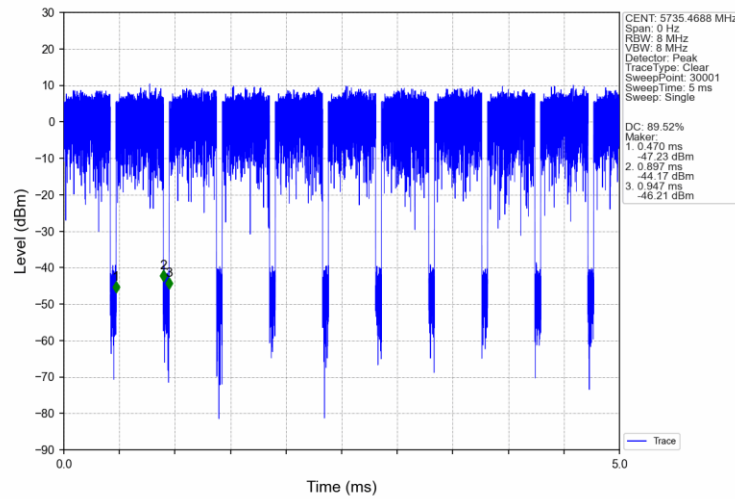
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



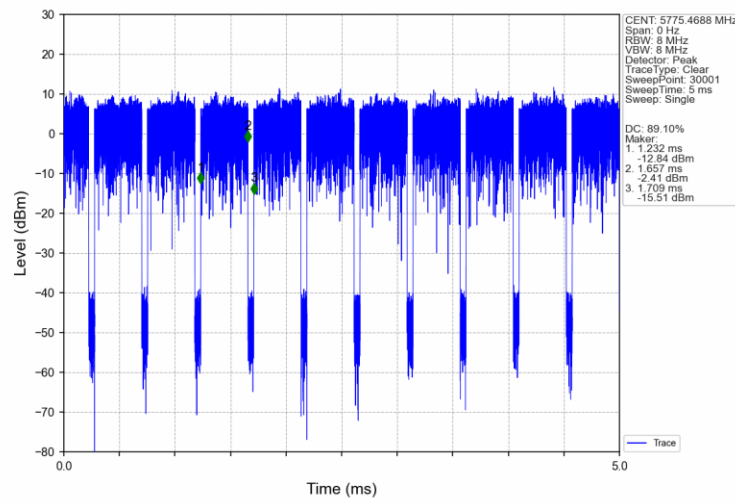
802.11ac(VHT80) MCH 5775MHz Ant1 NTN



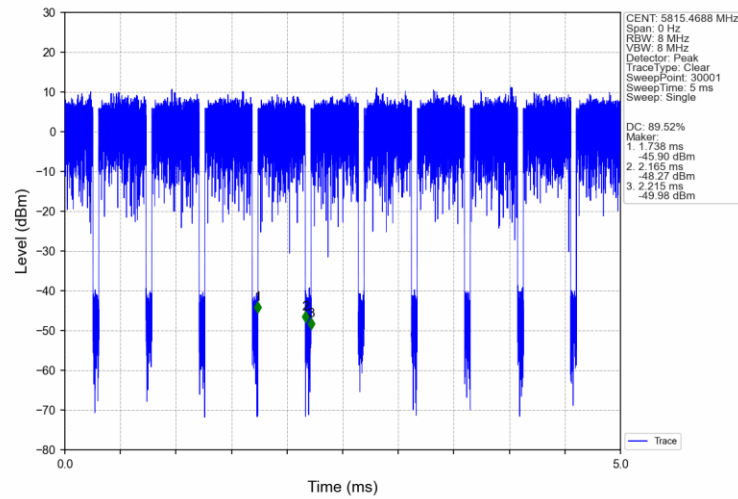
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



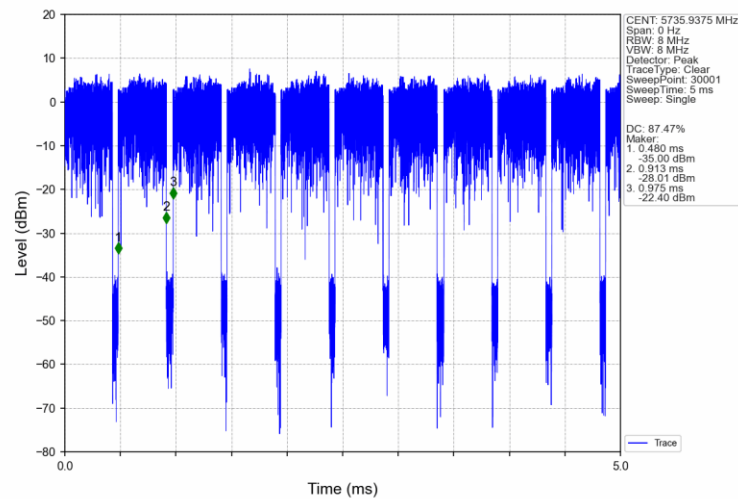
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



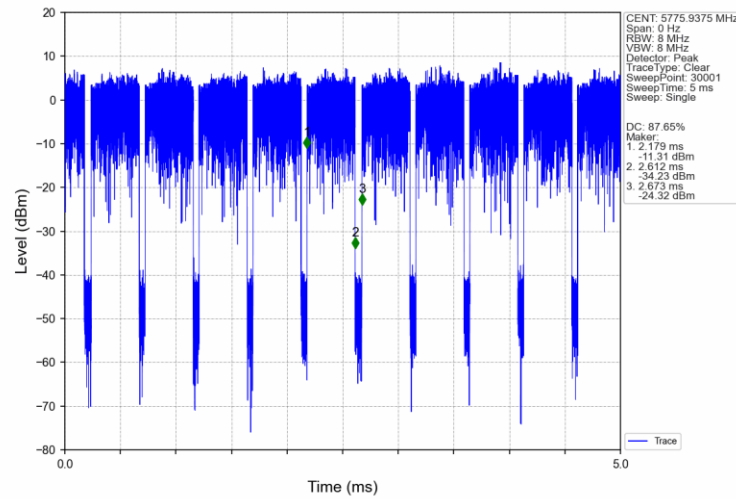
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



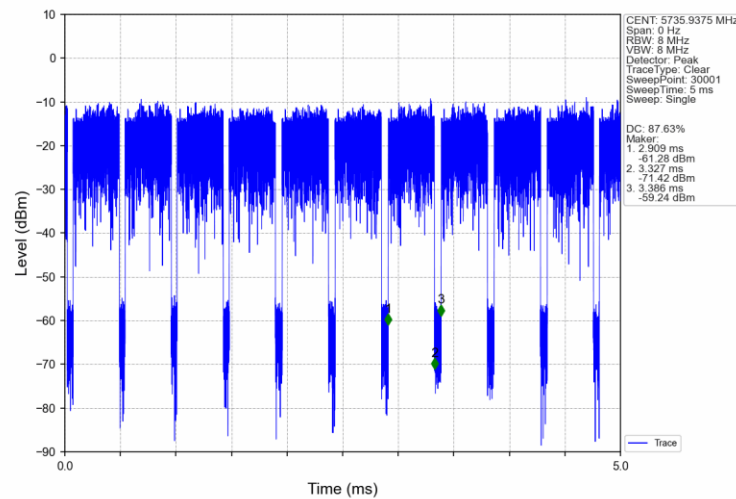
802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



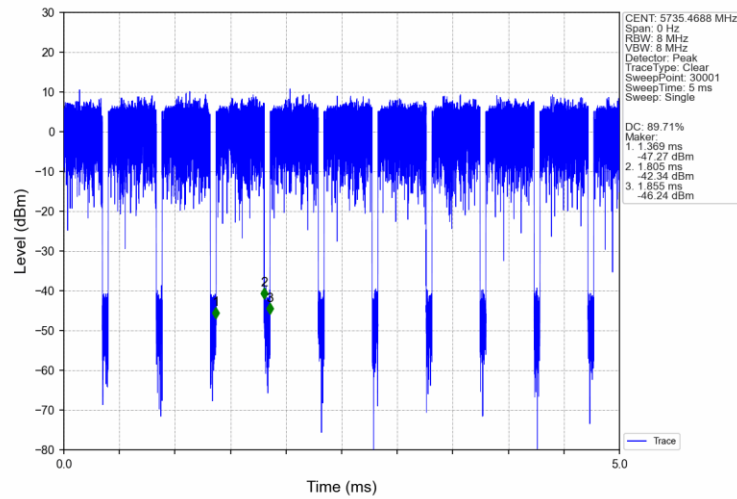
802.11ax(HEW40) HCH 5795MHz SU / Ant1 NTN



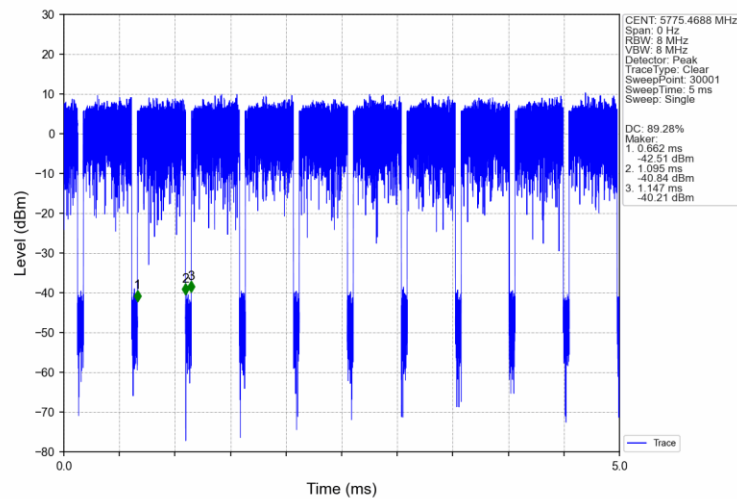
802.11ax(HEW80) MCH 5775MHz SU / Ant1 NTN



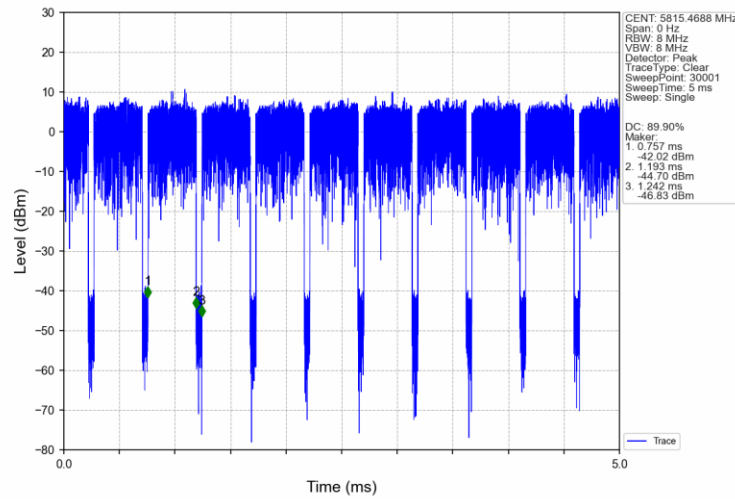
802.11be(EHT20) LCH 5745MHz SU / Ant1 NTN



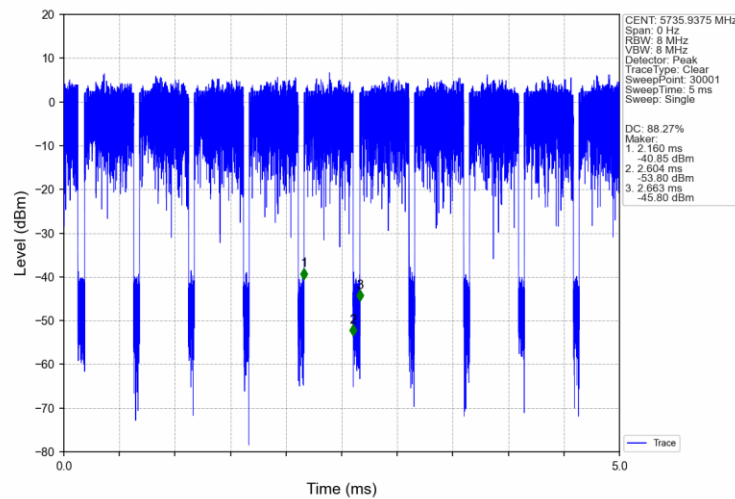
802.11be(EHT20) MCH 5785MHz SU / Ant1 NTN



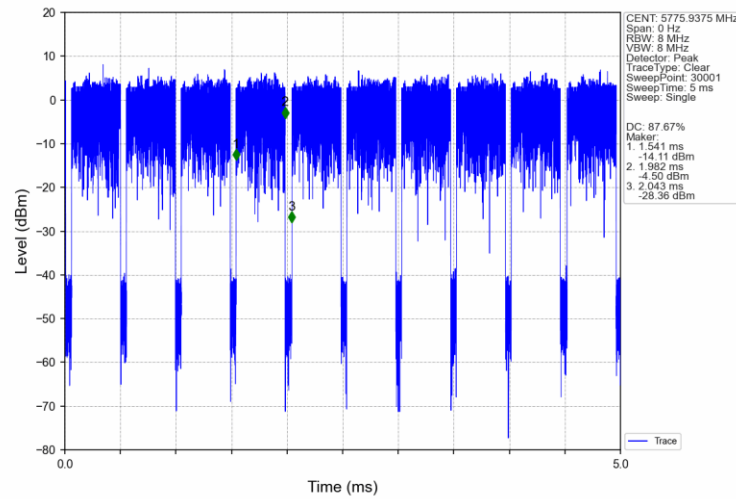
802.11be(EHT20) HCH 5825MHz SU / Ant1 NTN



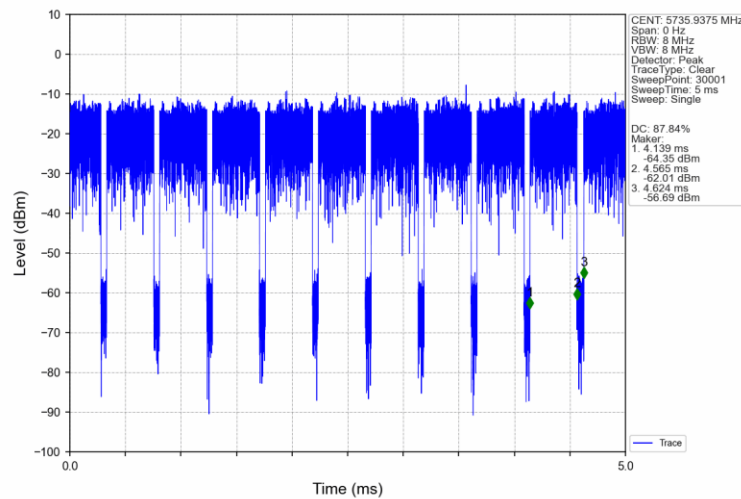
802.11be(EHT40) LCH 5755MHz SU / Ant1 NTN



802.11be(EHT40) HCH 5795MHz SU / Ant1 NTN



802.11be(EHT80) MCH 5775MHz SU / Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.609	/	Pass
		5785	/	/	1	16.652	/	Pass
		5825	/	/	1	16.598	/	Pass
802.11n (HT20)	MIMO	5745	/	/	1	17.629	/	Pass
		5785	/	/	1	17.638	/	Pass
		5825	/	/	1	17.624	/	Pass
802.11n (HT40)	MIMO	5755	/	/	1	35.724	/	Pass
		5795	/	/	1	35.740	/	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	17.648	/	Pass
		5785	/	/	1	17.633	/	Pass
		5825	/	/	1	17.615	/	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	35.755	/	Pass
		5795	/	/	1	35.811	/	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	75.323	/	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	1	18.908	/	Pass
		5785	SU	/	1	18.969	/	Pass
		5825	SU	/	1	18.919	/	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	1	37.459	/	Pass
		5795	SU	/	1	37.341	/	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	1	76.628	/	Pass
802.11be (EHT20)	MIMO	5745	SU	/	1	18.880	/	Pass
		5785	SU	/	1	18.892	/	Pass
		5825	SU	/	1	18.846	/	Pass
802.11be (EHT40)	MIMO	5755	SU	/	1	37.452	/	Pass
		5795	SU	/	1	37.430	/	Pass
802.11be (EHT80)	MIMO	5775	SU	/	1	76.620	/	Pass

Note: Antennas 1, 2 and 3 were all tested, with the worst result recorded for Antenna 1.

2.1.2 6dB BW

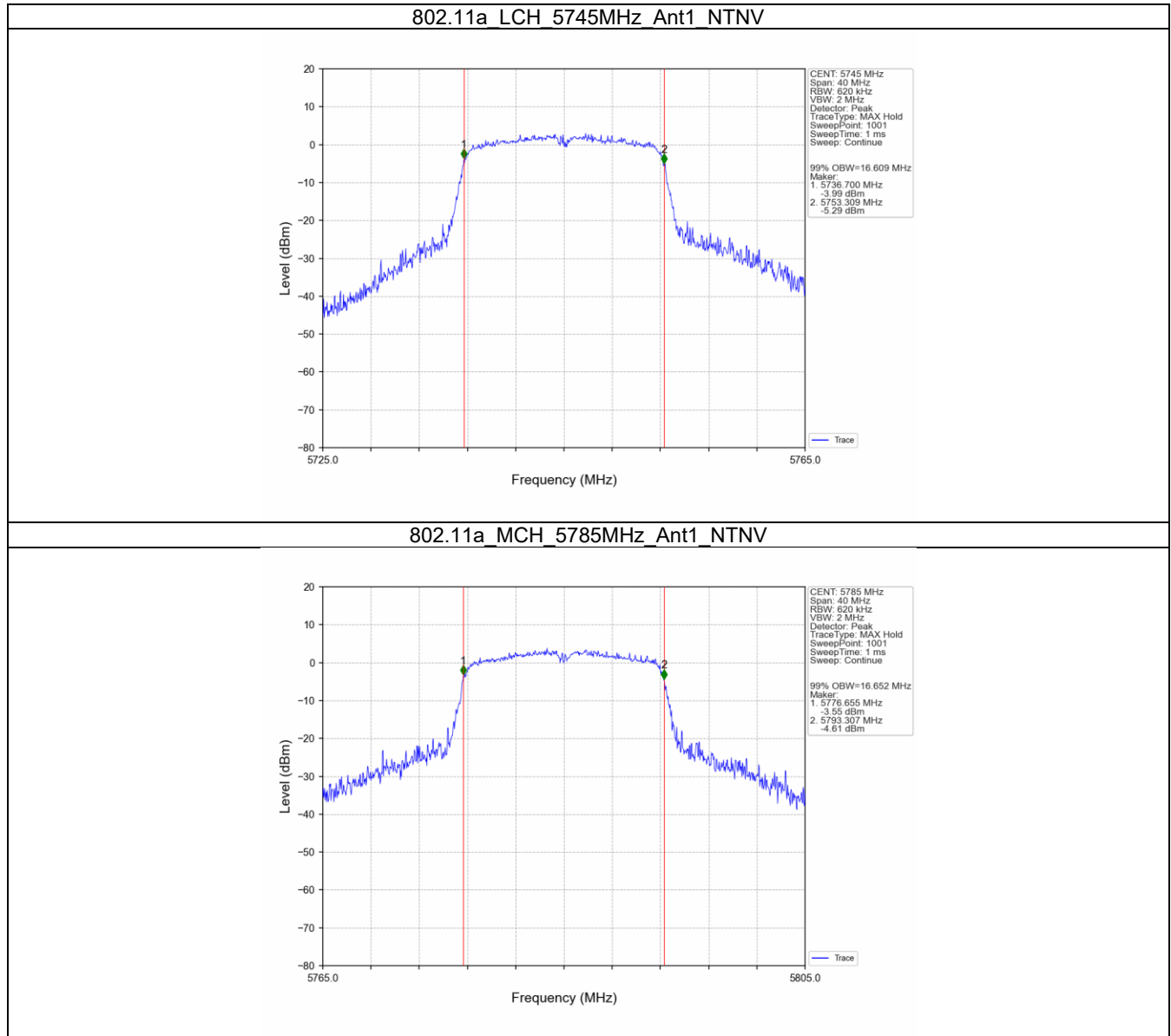
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	15.820	>=0.5	Pass
		5785	/	/	1	15.404	>=0.5	Pass
		5825	/	/	1	15.164	>=0.5	Pass
802.11n (HT20)	MIMO	5745	/	/	1	13.851	>=0.5	Pass
		5785	/	/	1	15.941	>=0.5	Pass
		5825	/	/	1	15.723	>=0.5	Pass
802.11n (HT40)	MIMO	5755	/	/	1	33.836	>=0.5	Pass
		5795	/	/	1	33.829	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	/	/	1	15.749	>=0.5	Pass
		5785	/	/	1	15.085	>=0.5	Pass

		5825	/	/	1	15.103	≥ 0.5	Pass
802.11ac (VHT40)	MIMO	5755	/	/	1	35.044	≥ 0.5	Pass
		5795	/	/	1	35.009	≥ 0.5	Pass
802.11ac (VHT80)	MIMO	5775	/	/	1	72.559	≥ 0.5	Pass
802.11ax (HEW20)	MIMO	5745	SU	/	1	17.689	≥ 0.5	Pass
		5785	SU	/	1	17.768	≥ 0.5	Pass
		5825	SU	/	1	16.291	≥ 0.5	Pass
802.11ax (HEW40)	MIMO	5755	SU	/	1	33.837	≥ 0.5	Pass
		5795	SU	/	1	33.789	≥ 0.5	Pass
802.11ax (HEW80)	MIMO	5775	SU	/	1	73.714	≥ 0.5	Pass
802.11be (EHT20)	MIMO	5745	SU	/	1	18.025	≥ 0.5	Pass
		5785	SU	/	1	15.138	≥ 0.5	Pass
		5825	SU	/	1	2.613	≥ 0.5	Pass
802.11be (EHT40)	MIMO	5755	SU	/	1	33.835	≥ 0.5	Pass
		5795	SU	/	1	35.019	≥ 0.5	Pass
802.11be (EHT80)	MIMO	5775	SU	/	1	74.967	≥ 0.5	Pass

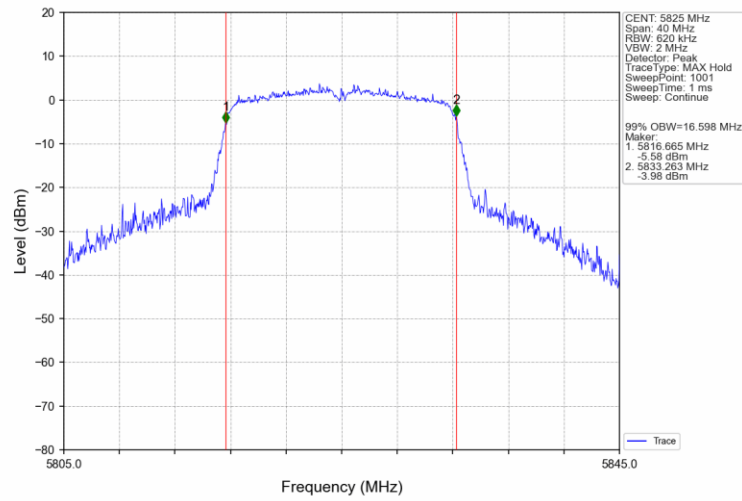
Note: Antennas 1, 2 and 3 were all tested, with the worst result recorded for Antenna 1.

2.2 Test Graph

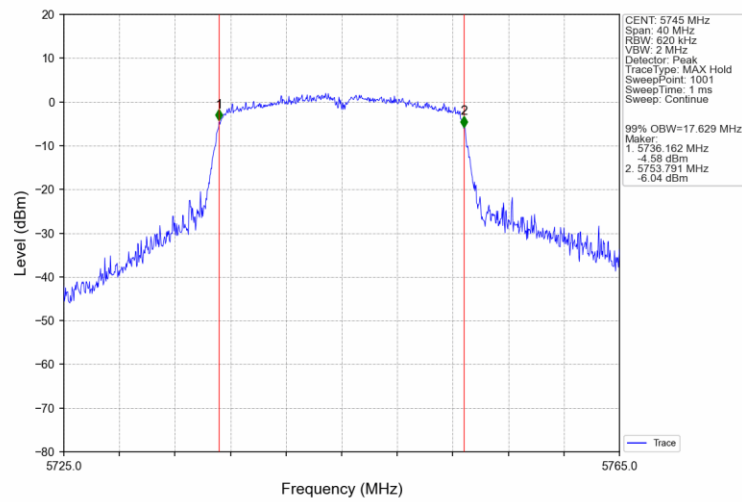
2.2.1 OBW



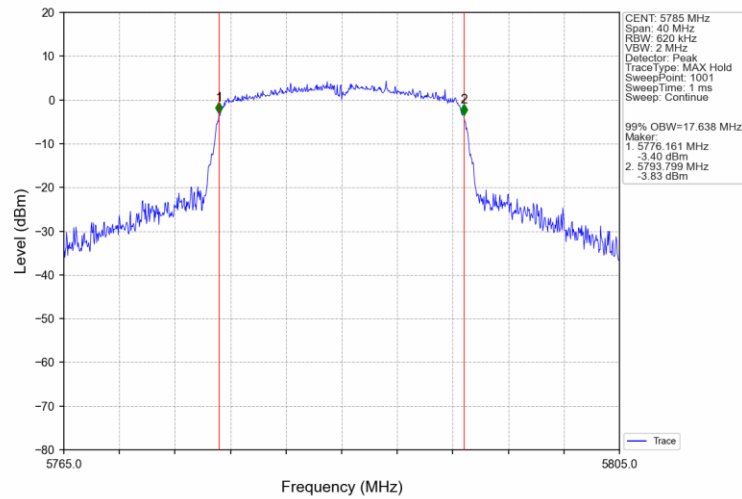
802.11a_HCH_5825MHz_Ant1_NTNV



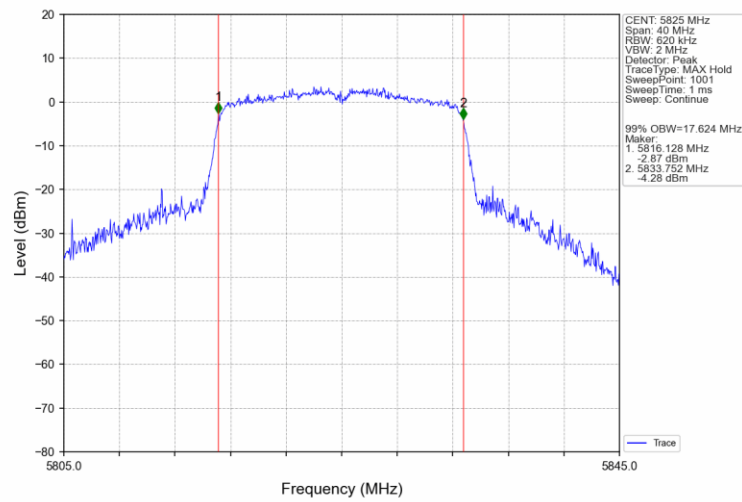
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



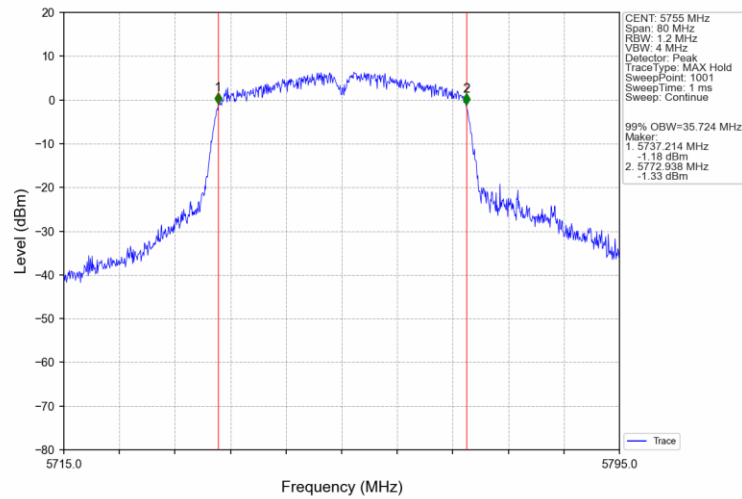
802.11n(HT20) MCH 5785MHz Ant1 NTNv



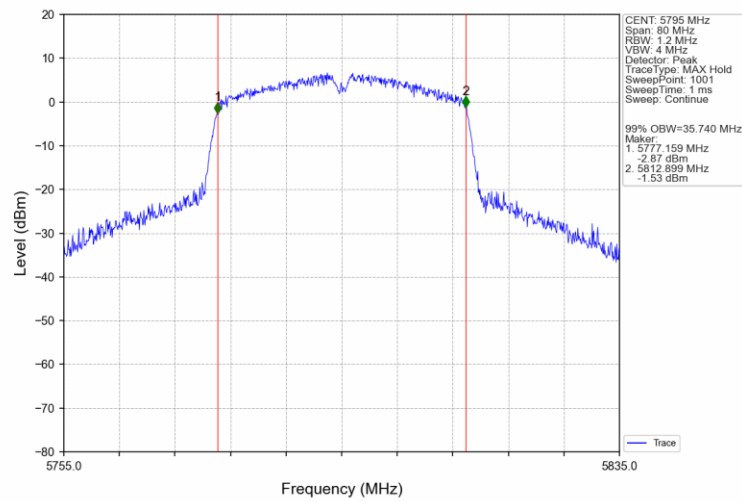
802.11n(HT20) HCH 5825MHz Ant1 NTNv



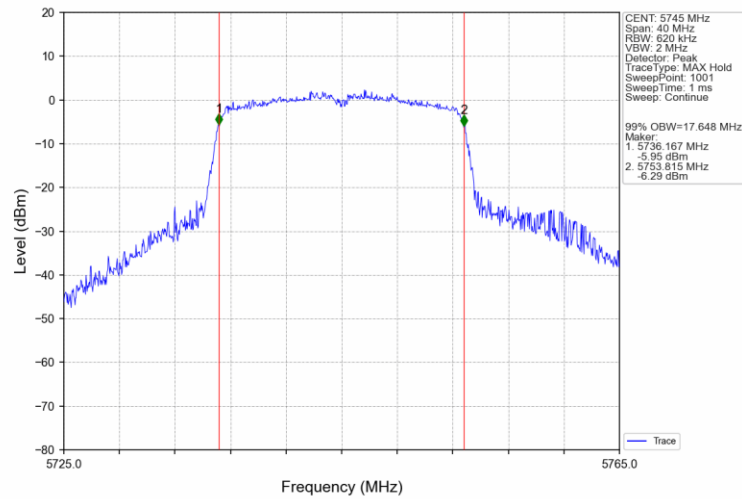
802.11n(HT40) LCH 5755MHz Ant1 NTN



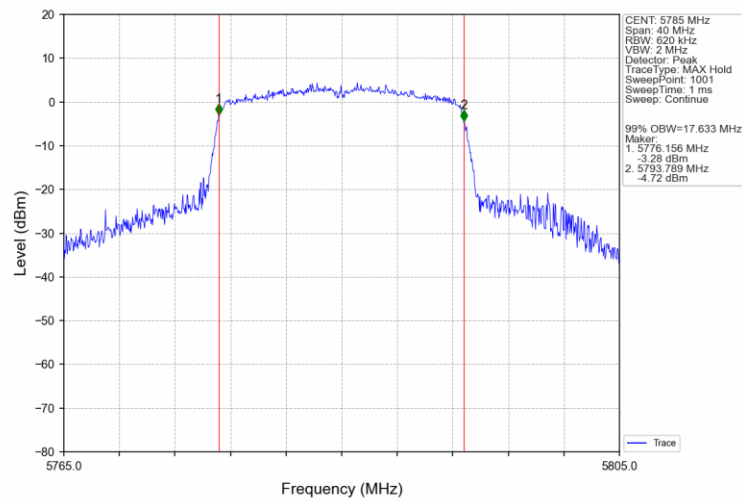
802.11n(HT40) HCH 5795MHz Ant1 NTN



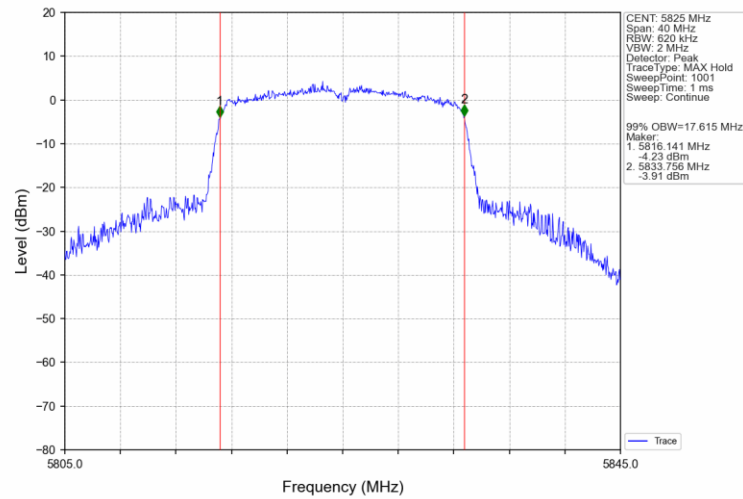
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



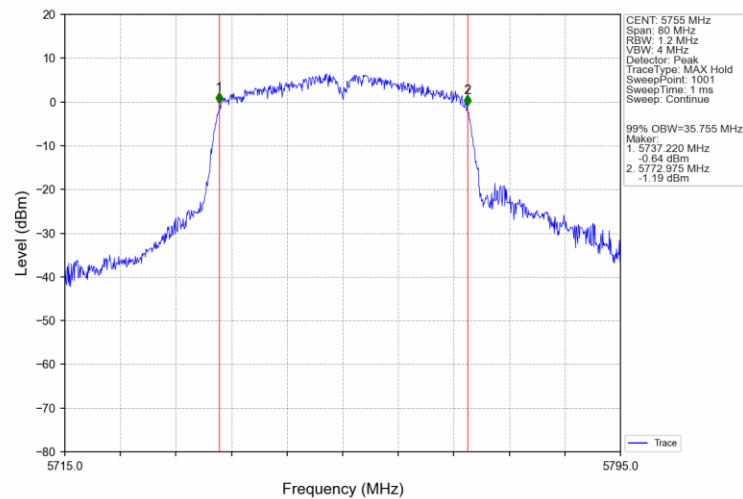
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



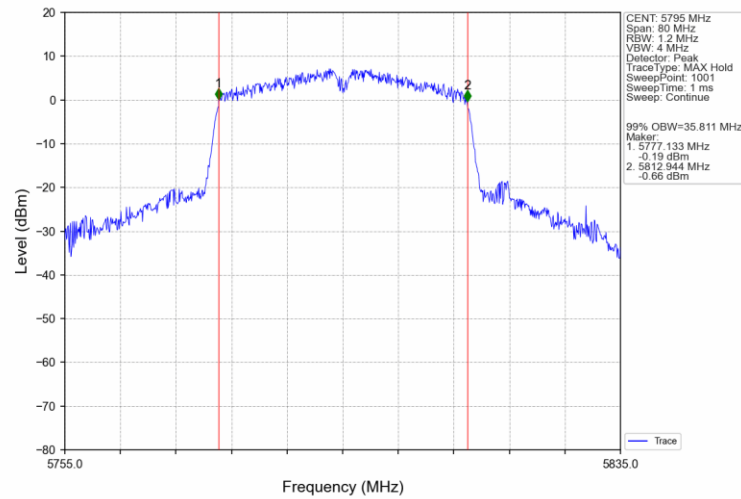
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



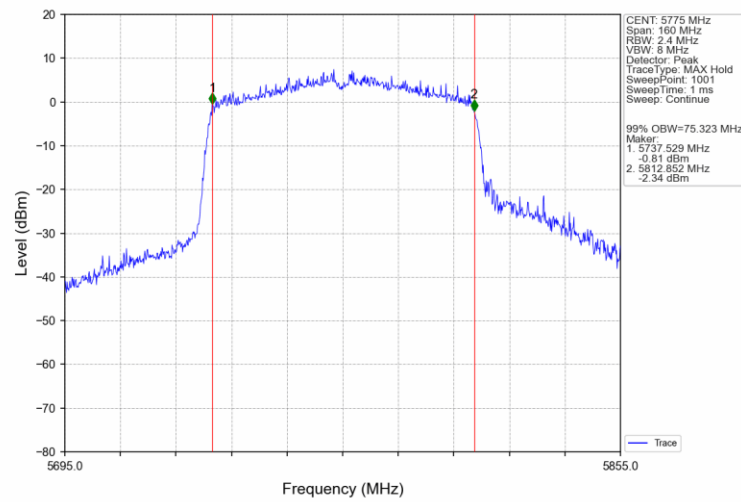
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



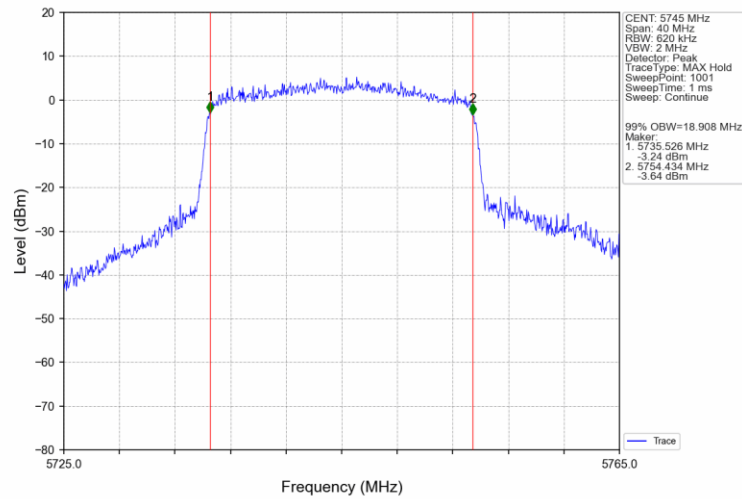
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



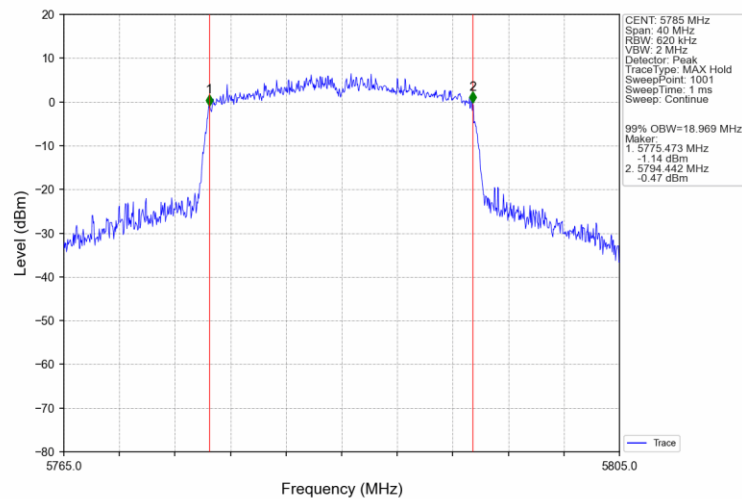
802.11ac(VHT80) MCH 5775MHz Ant1 NTN



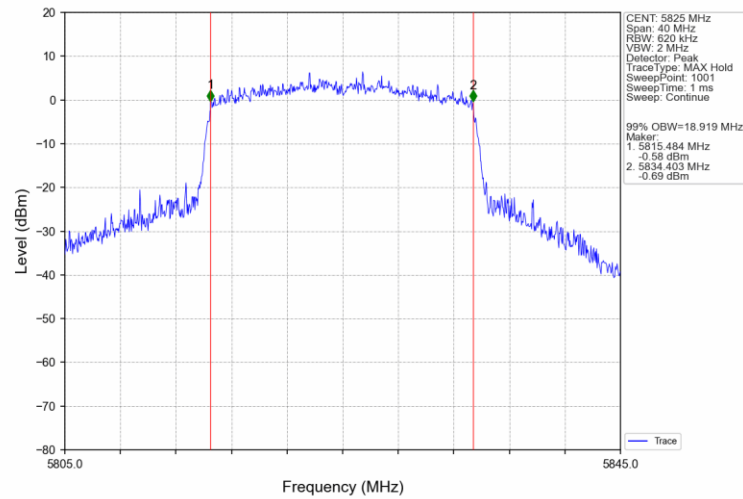
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



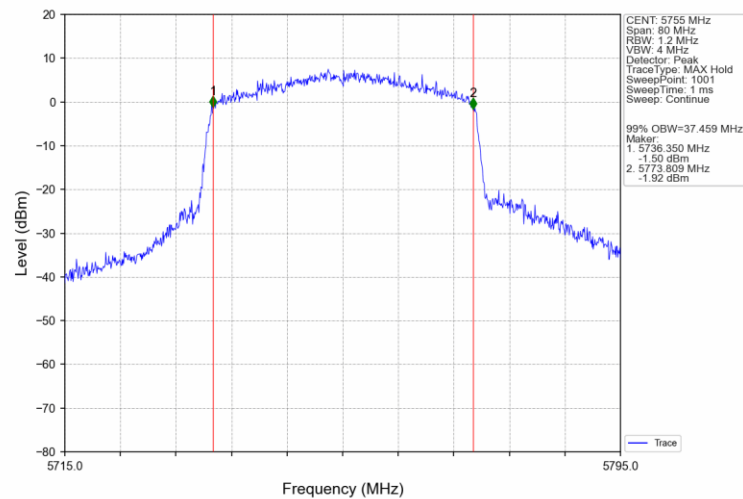
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



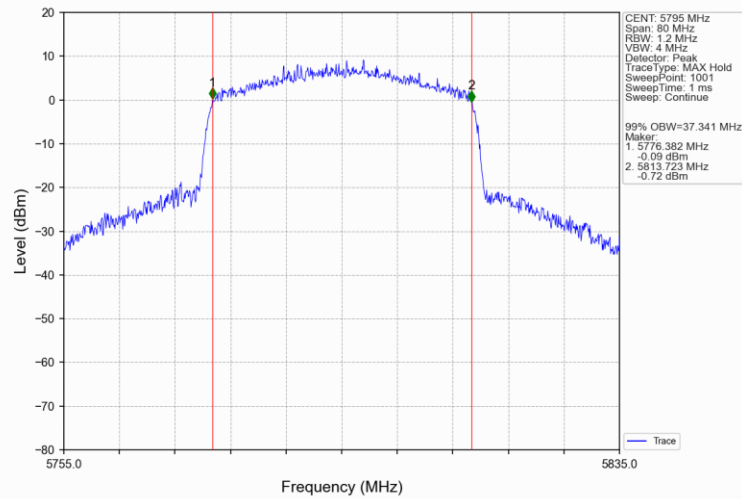
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



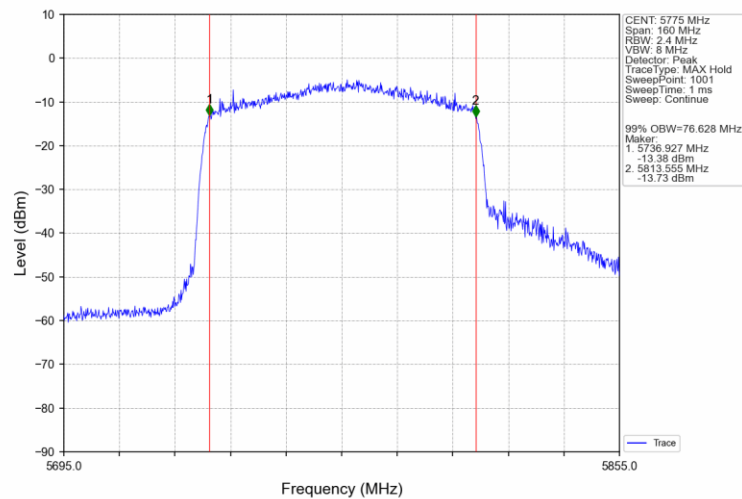
802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



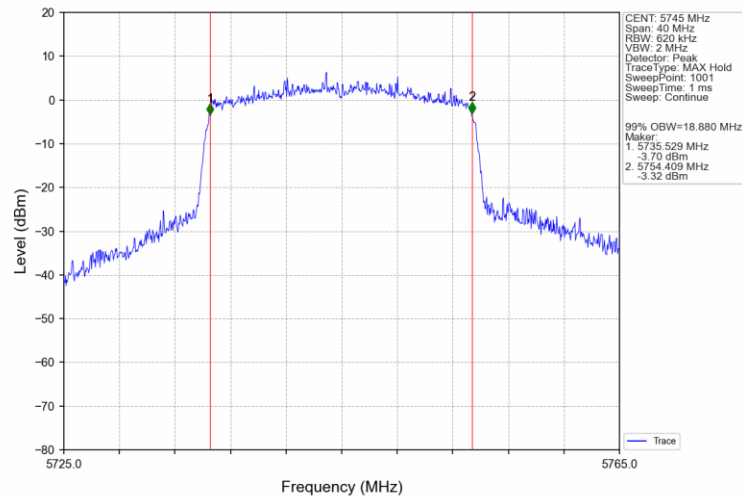
802.11ax(HEW40) HCH 5795MHz SU / Ant1 NTNv



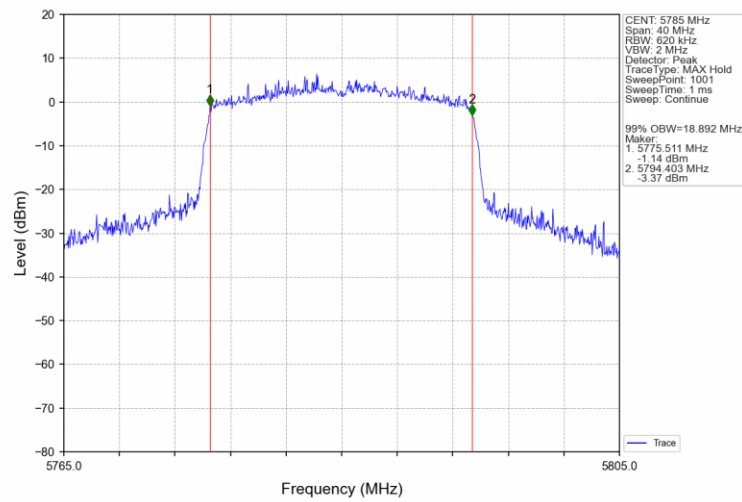
802.11ax(HEW80) MCH 5775MHz SU / Ant1 NTNv



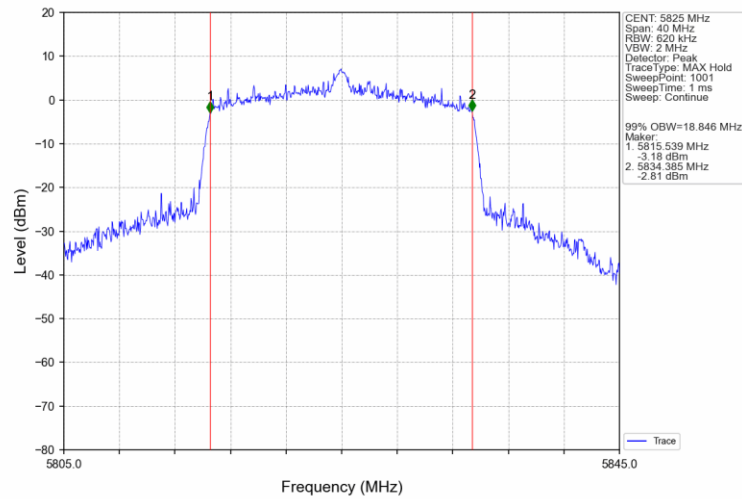
802.11be(EHT20) LCH 5745MHz SU / Ant1 NTN



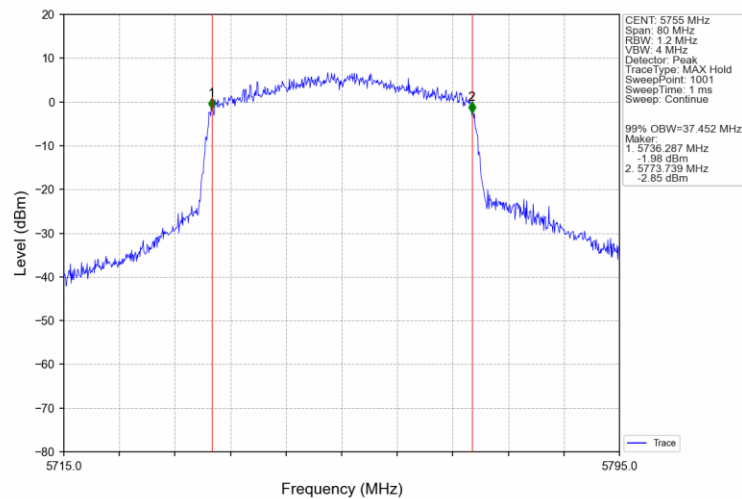
802.11be(EHT20) MCH 5785MHz SU / Ant1 NTN



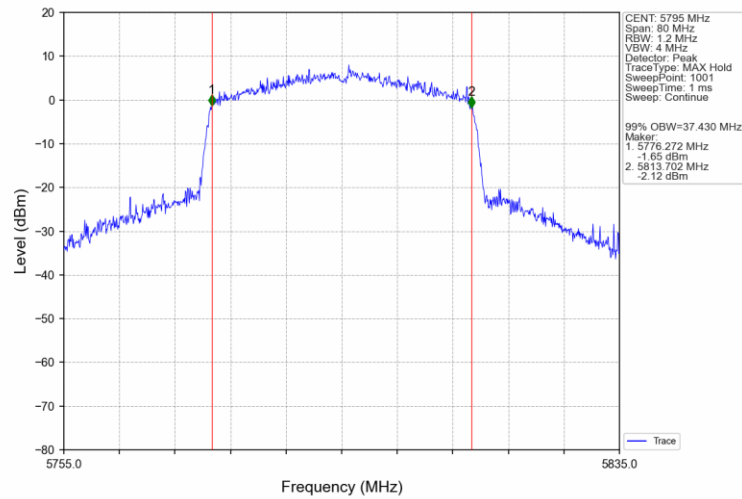
802.11be(EHT20) HCH 5825MHz SU / Ant1 NTN



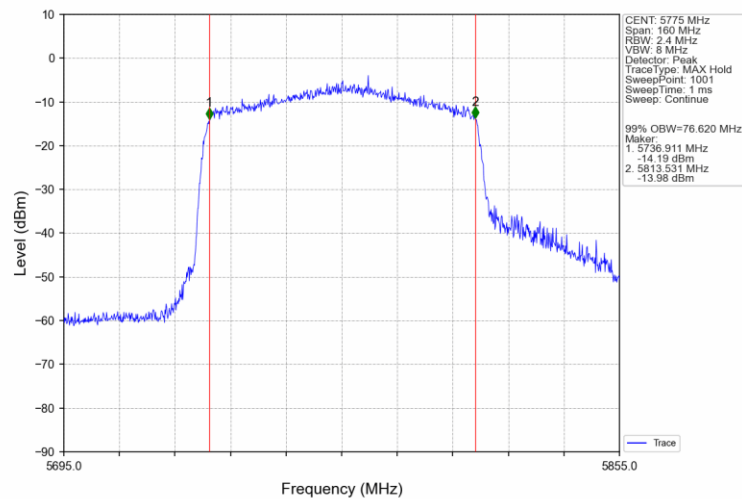
802.11be(EHT40) LCH 5755MHz SU / Ant1 NTN



802.11be(EHT40) HCH 5795MHz SU / Ant1 NTN

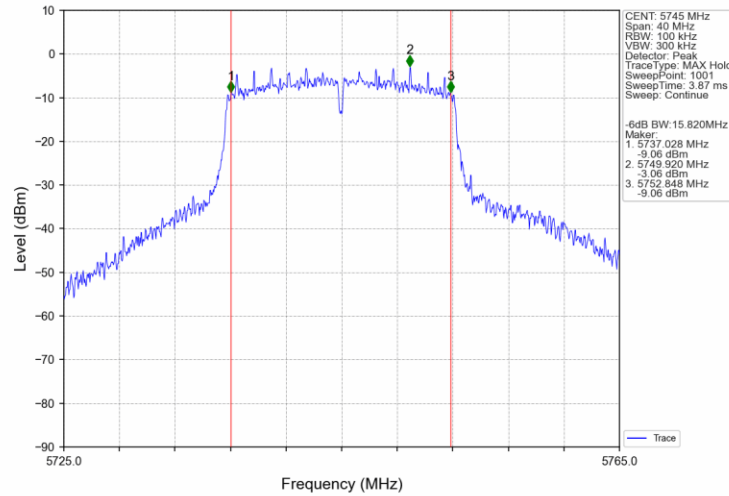


802.11be(EHT80) MCH 5775MHz SU / Ant1 NTN

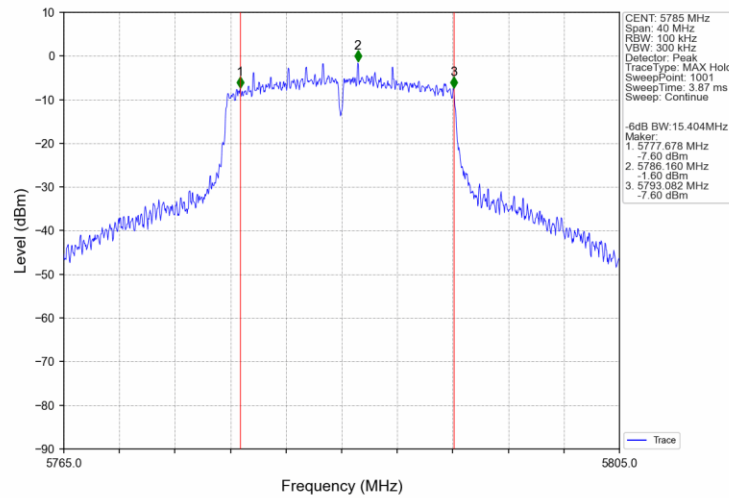


2.2.2 6dB BW

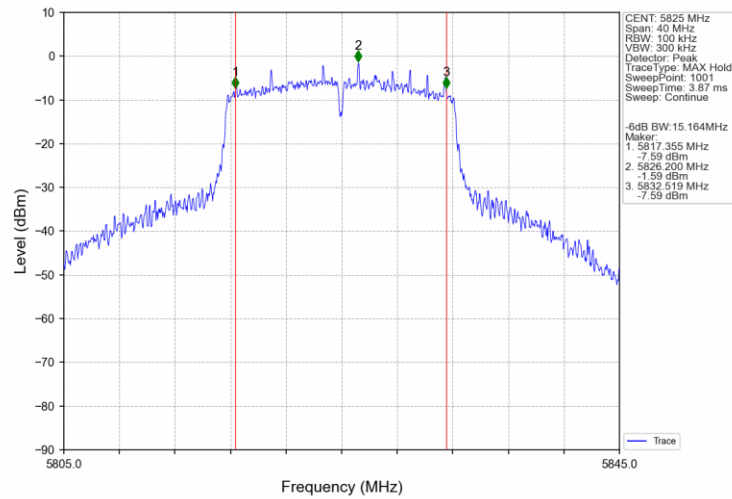
802.11a LCH 5745MHz Ant1 NTN



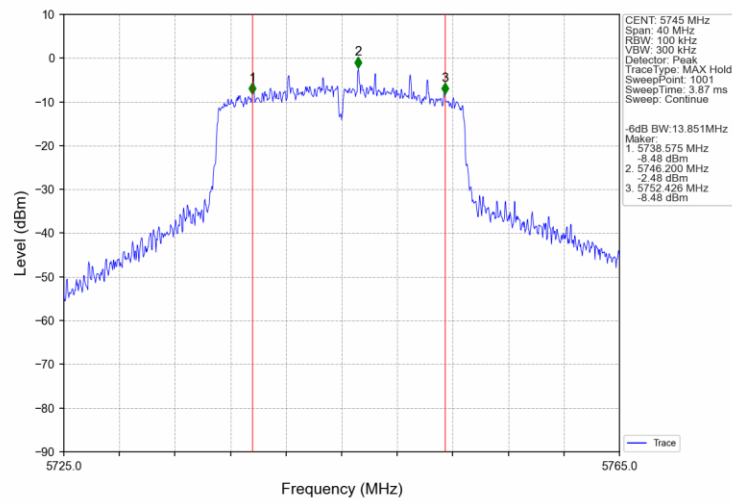
802.11a_MCH_5785MHz_Ant1_NTNV



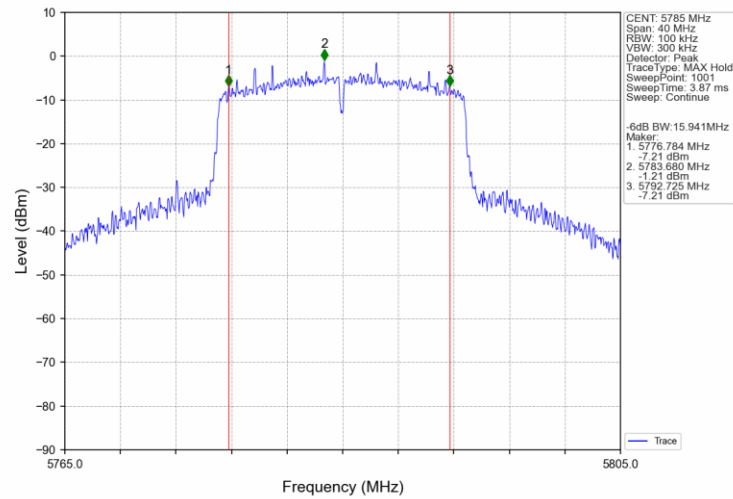
802.11a_HCH_5825MHz_Ant1_NTNV



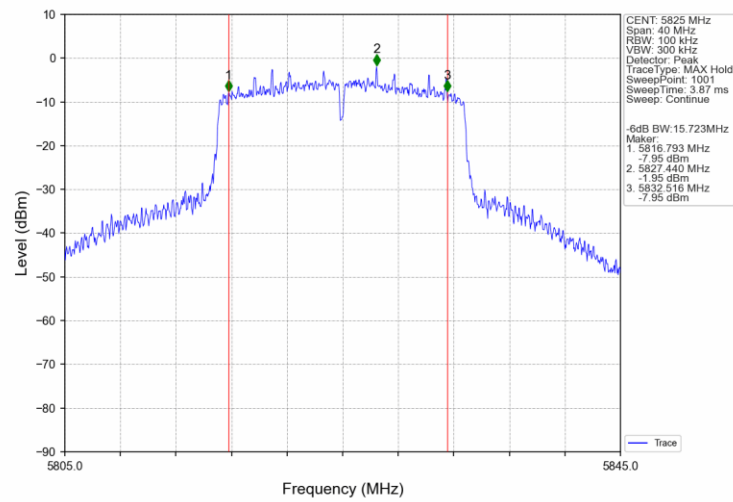
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



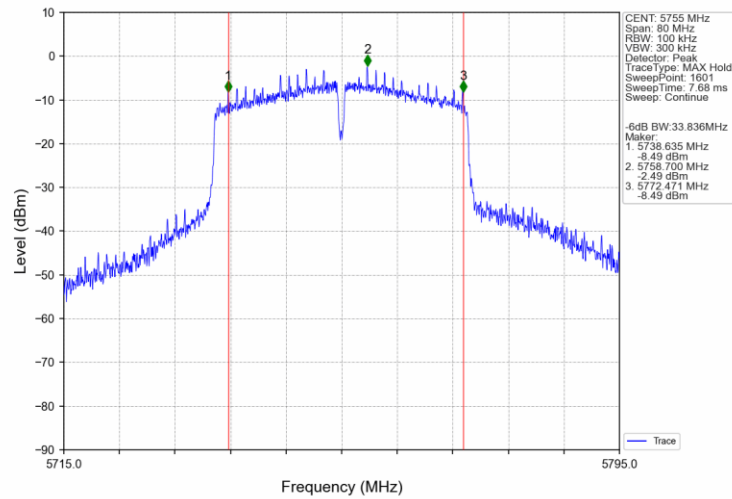
802.11n(HT20) MCH 5785MHz Ant1 NTV



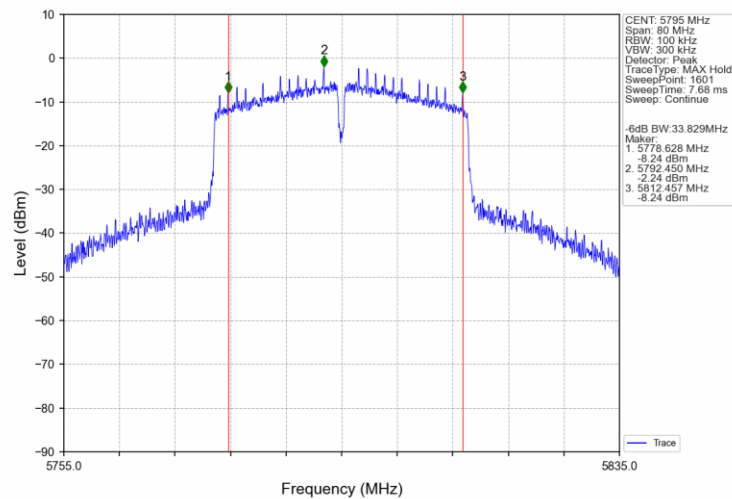
802.11n(HT20) HCH 5825MHz Ant1 NTV



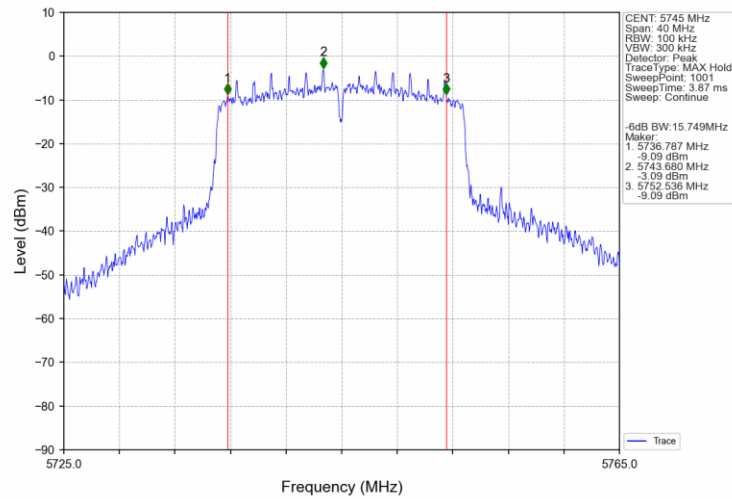
802.11n(HT40) LCH 5755MHz Ant1 NTN



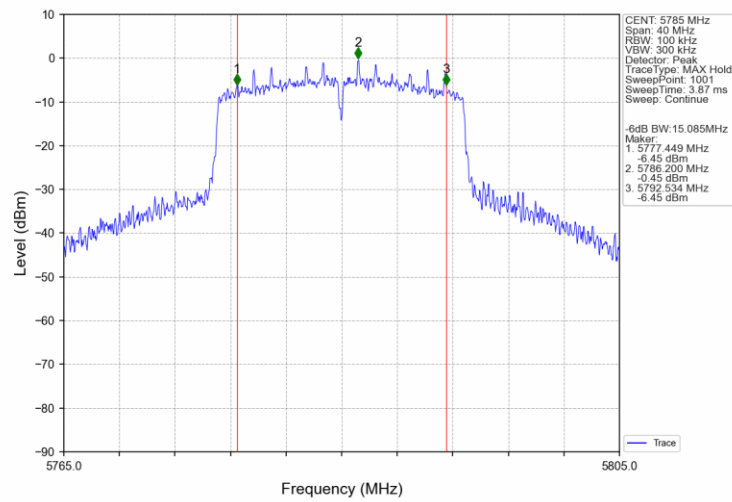
802.11n(HT40) HCH 5795MHz Ant1 NTN



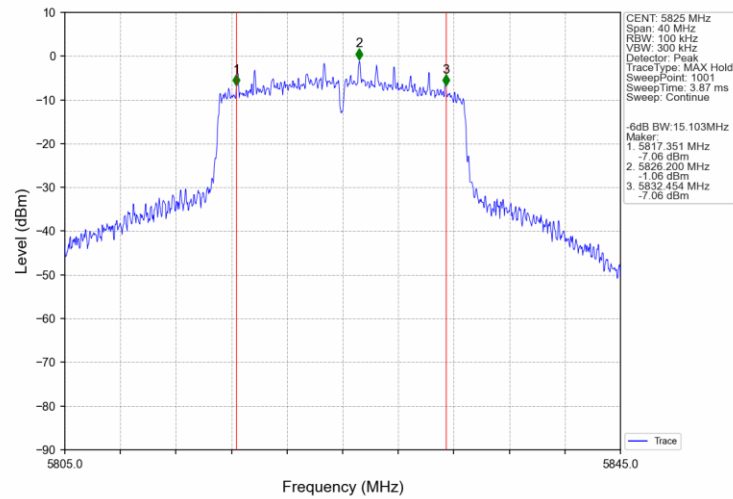
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



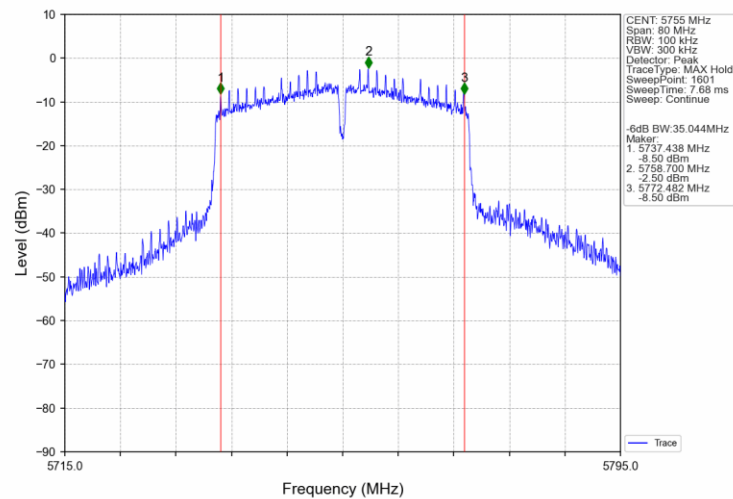
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



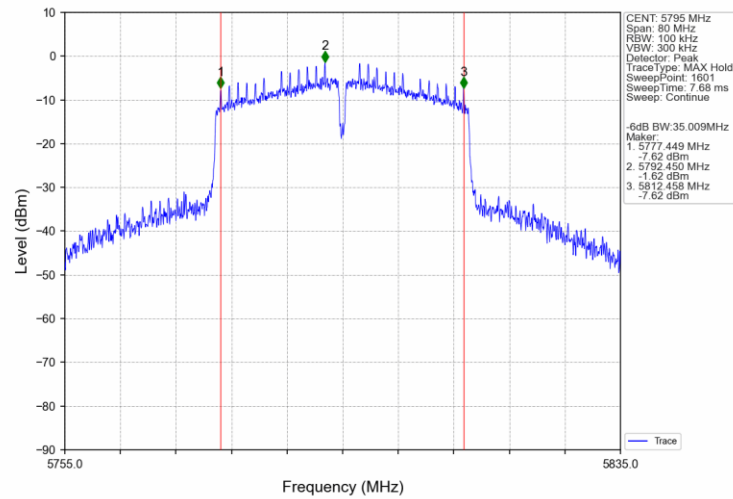
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



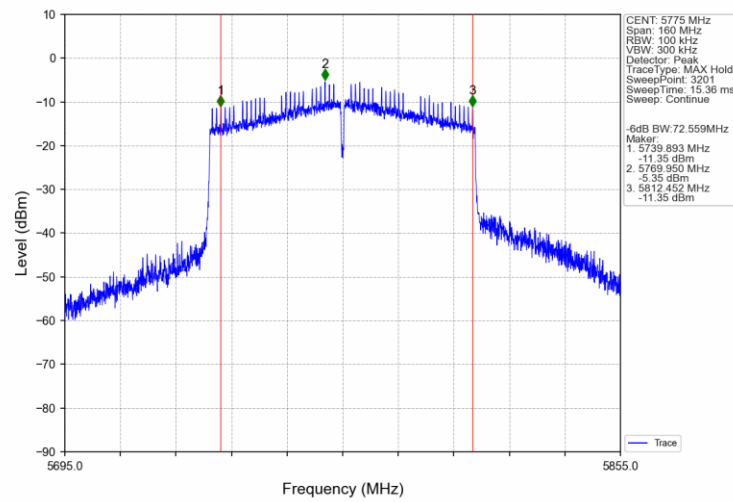
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



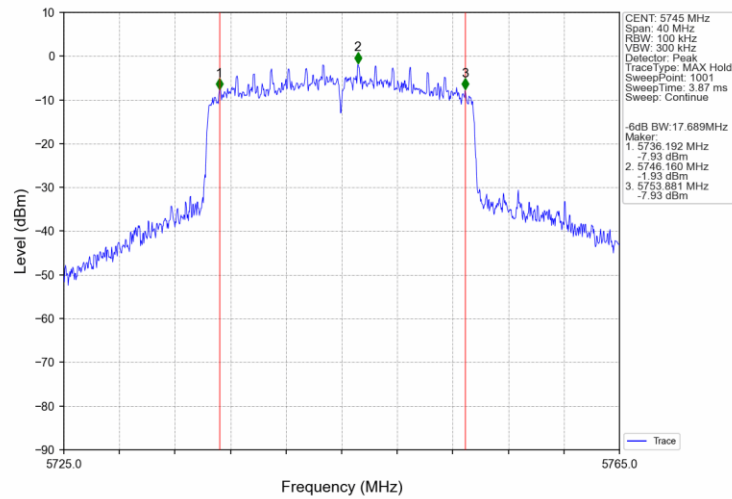
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN

