

Appendix RF Test Data for 5GWIFI

Company: : Suzhou Deep Foresight Technology Co., Ltd.

EUT : XbotGo Falcon

FCC ID: : 2BG5Z-FCN

Model Number : FCN

Report No. : HTT202510797F03

Reviewed By : Heber He

1. Duty Cycle

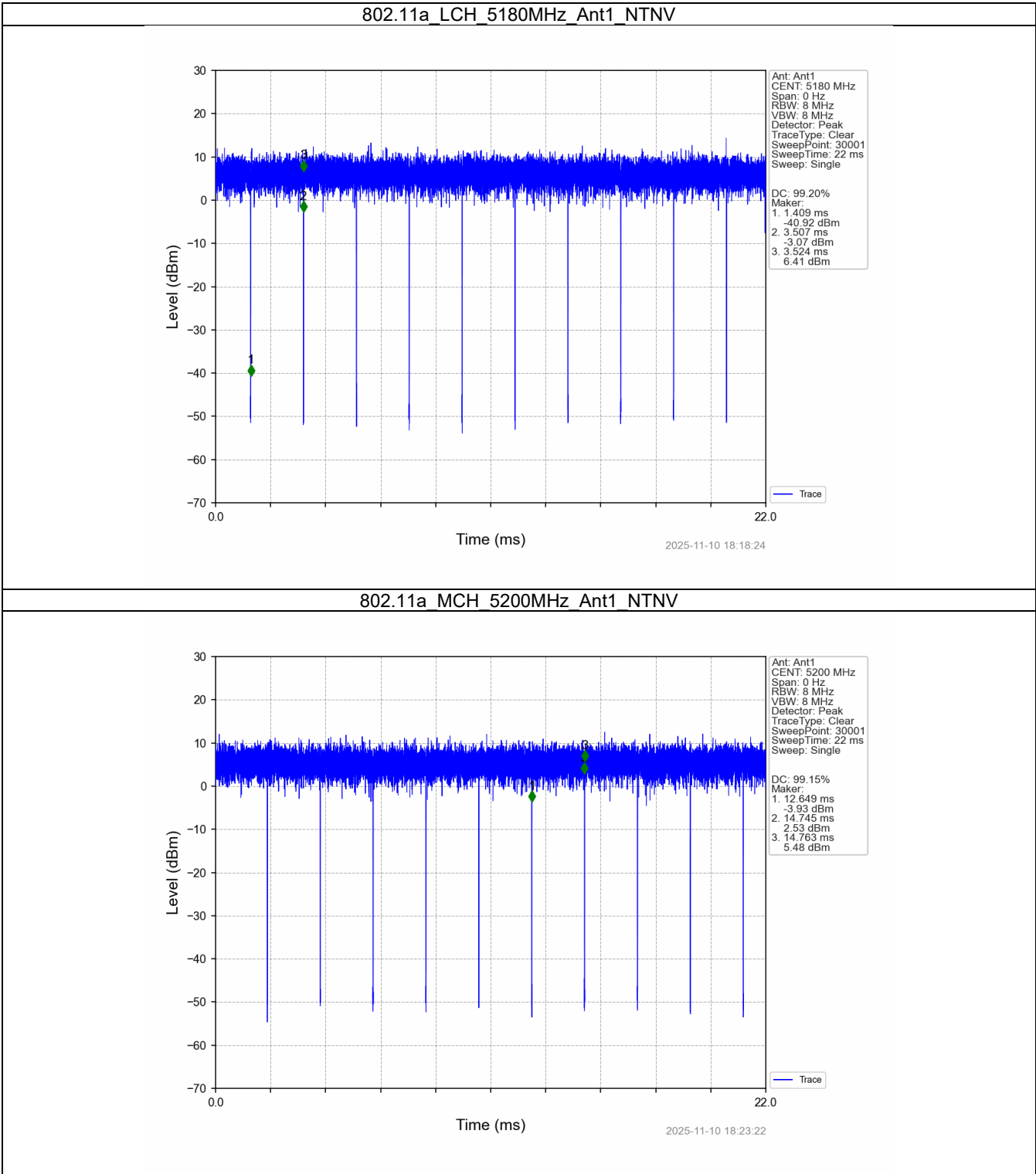
1.1 Test Result

1.1.1 Ant1

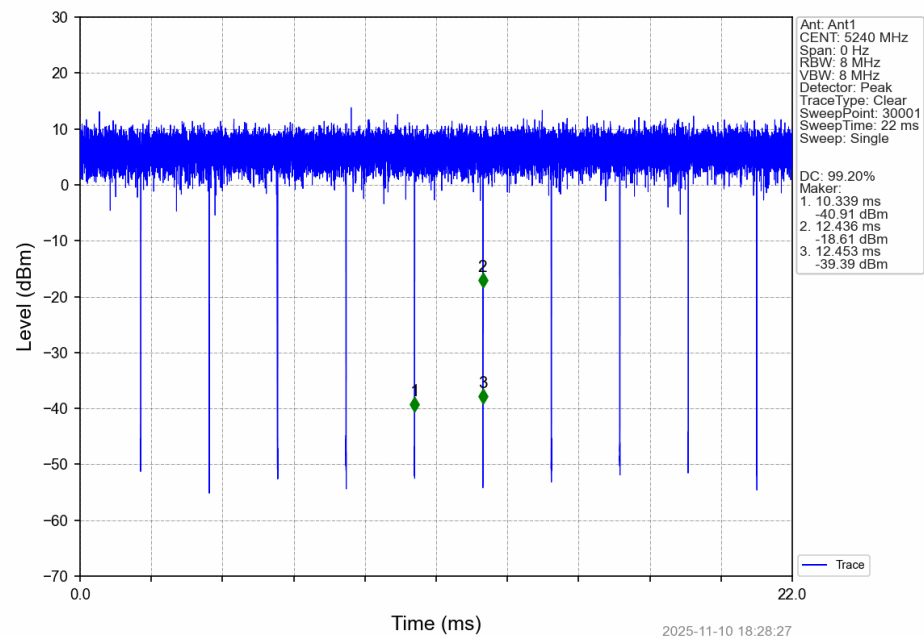
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.098	2.115	99.20	0.04	0.07
		5200	2.096	2.114	99.15	0.04	0.03
		5240	2.097	2.114	99.20	0.04	0.03
		5745	2.096	2.114	99.15	0.04	0.07
		5785	2.096	2.114	99.15	0.04	0.03
		5825	2.097	2.114	99.20	0.04	0.03
802.11n (HT20)	SISO	5180	5.396	5.414	99.67	0.01	0.04
		5200	5.396	5.415	99.65	0.02	0.03
		5240	5.396	5.414	99.67	0.01	0.04
		5745	5.396	5.414	99.67	0.01	0.04
		5785	5.396	5.415	99.65	0.02	0.03
		5825	5.396	5.415	99.65	0.02	0.03
802.11n (HT40)	SISO	5190	5.196	5.213	99.67	0.01	0.04
		5230	5.196	5.213	99.67	0.01	0.00
		5755	5.195	5.211	99.69	0.01	0.00
		5795	5.195	5.214	99.64	0.02	0.04
802.11ac (VHT20)	SISO	5180	5.400	5.419	99.65	0.02	0.03
		5200	5.400	5.418	99.67	0.01	0.04
		5240	5.400	5.419	99.65	0.02	0.03
		5745	5.400	5.418	99.67	0.01	0.04
		5785	5.400	5.417	99.69	0.01	0.03
		5825	5.400	5.419	99.65	0.02	0.03
802.11ac (VHT40)	SISO	5190	5.201	5.217	99.69	0.01	0.04
		5230	5.201	5.217	99.69	0.01	0.04
		5755	5.200	5.217	99.67	0.01	0.04
		5795	5.200	5.218	99.66	0.02	0.03
802.11ac (VHT80)	SISO	5210	2.700	2.717	99.37	0.03	0.03
		5775	2.700	2.717	99.37	0.03	0.03
802.11ax (HEW20)	SISO	5180	5.418	5.436	99.67	0.01	0.04
		5200	5.419	5.436	99.69	0.01	0.00
		5240	5.417	5.436	99.65	0.02	0.00
		5745	5.418	5.436	99.67	0.01	0.04
		5785	5.418	5.436	99.67	0.01	0.04
		5825	5.418	5.436	99.67	0.01	0.04
802.11ax (HEW40)	SISO	5190	4.104	4.122	99.56	0.02	0.04
		5230	4.103	4.121	99.56	0.02	0.03
		5755	4.104	4.121	99.59	0.02	0.04
		5795	4.103	4.121	99.56	0.02	0.04
802.11ax (HEW80)	SISO	5210	2.217	2.234	99.24	0.03	0.04
		5775	2.218	2.235	99.24	0.03	0.04

1.2 Test Graph

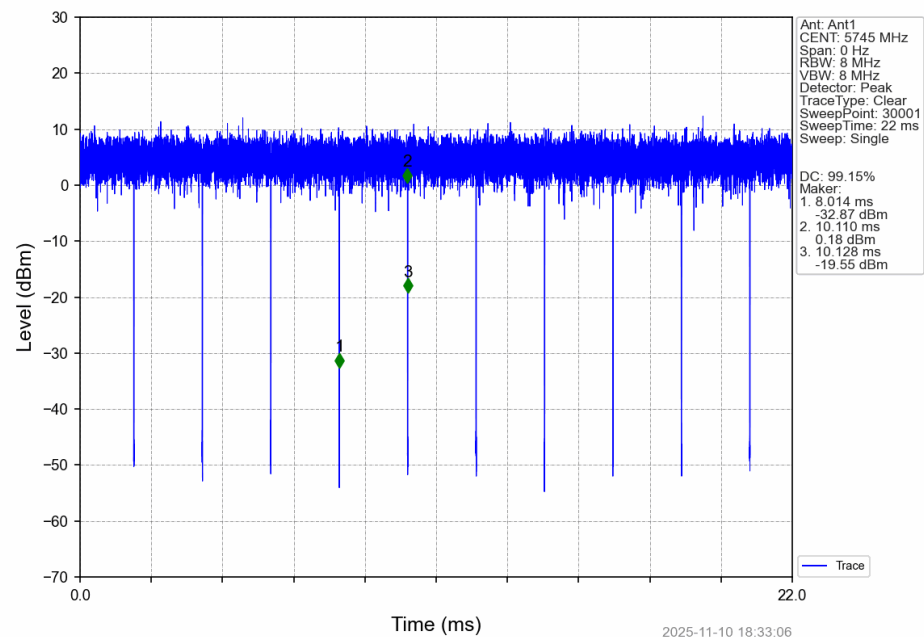
1.2.1 Ant1



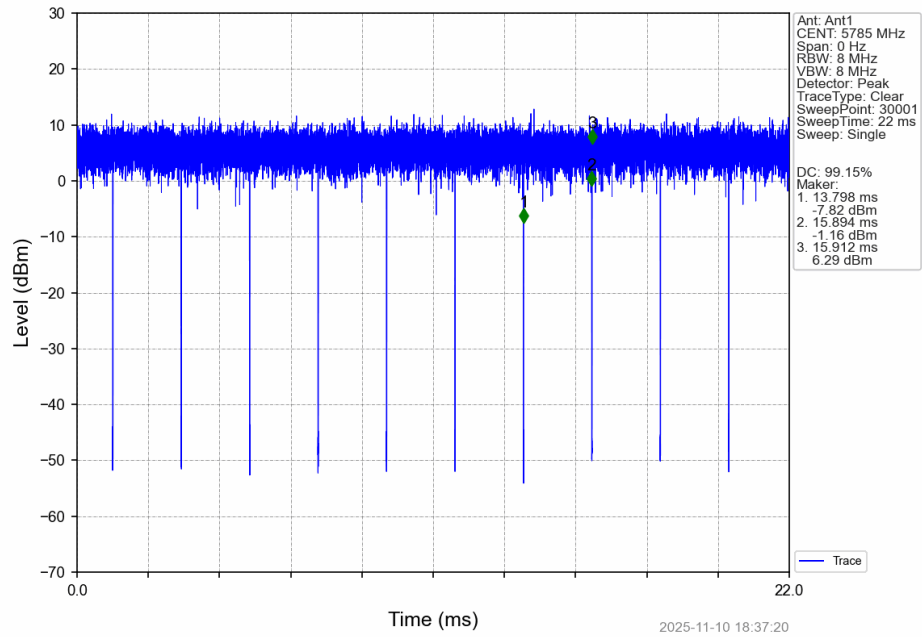
802.11a_HCH_5240MHz_Ant1_NTNV



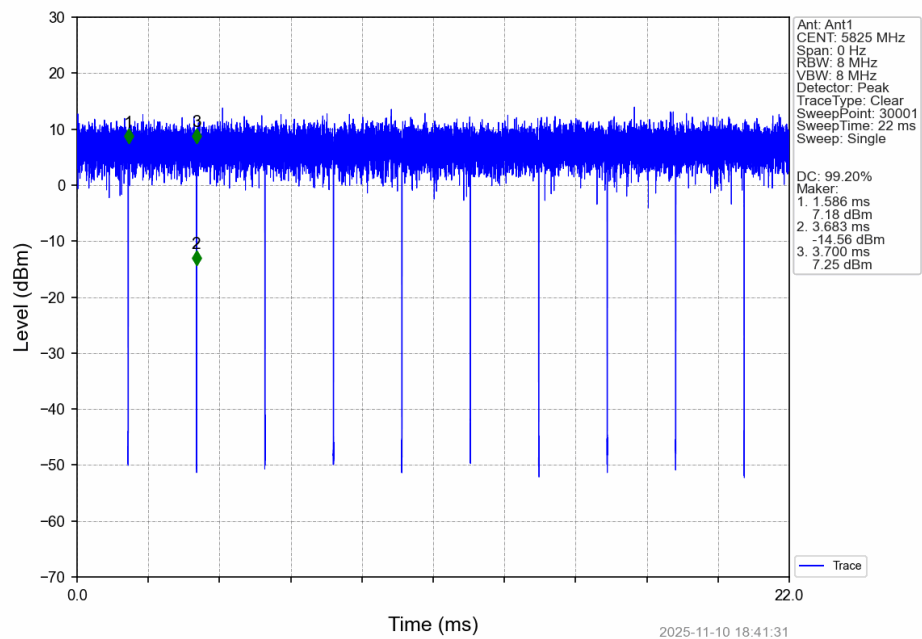
802.11a_LCH_5745MHz_Ant1_NTNV



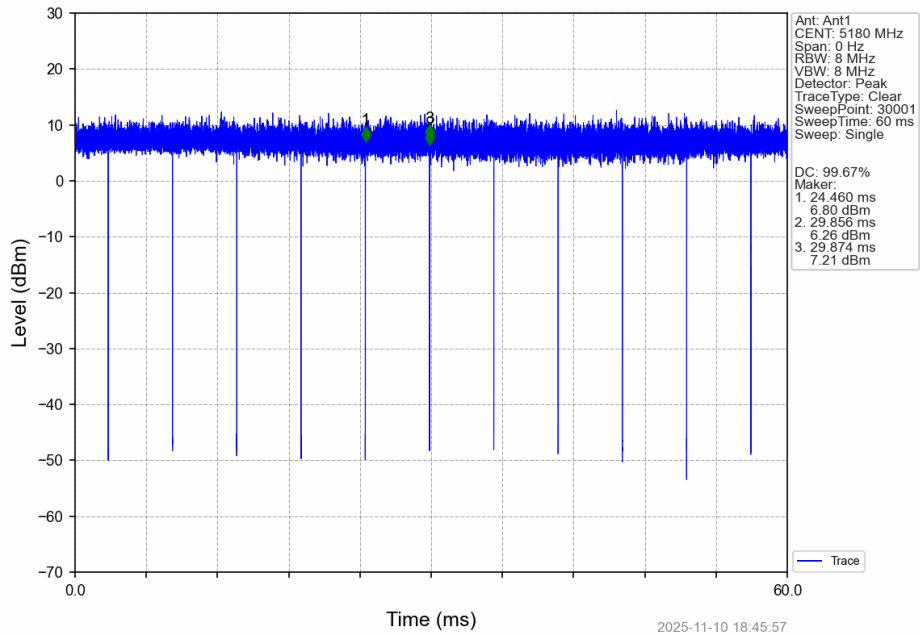
802.11a_MCH_5785MHz_Ant1_NTNV



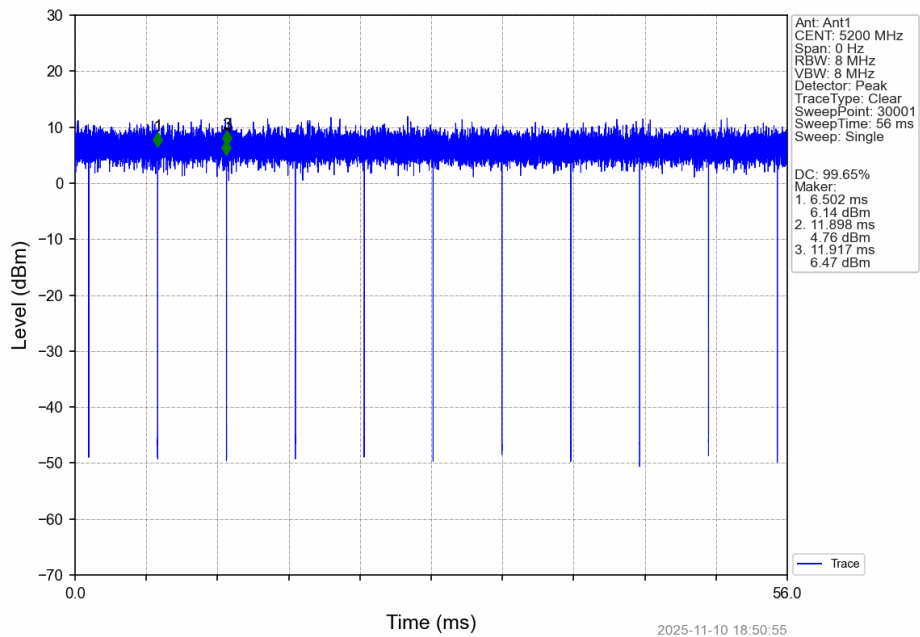
802.11a_HCH_5825MHz_Ant1_NTNV



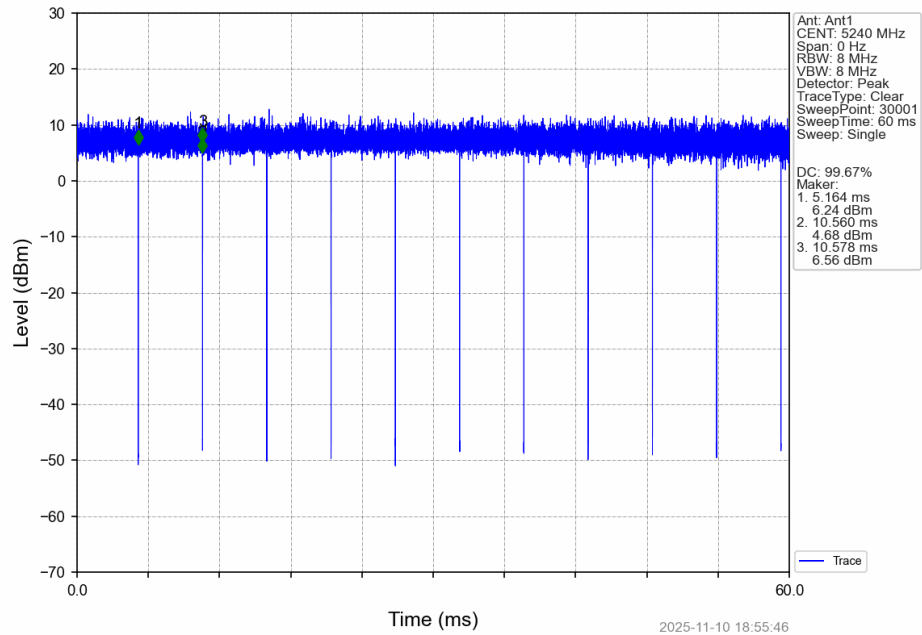
802.11n(HT20) LCH 5180MHz Ant1 NTN



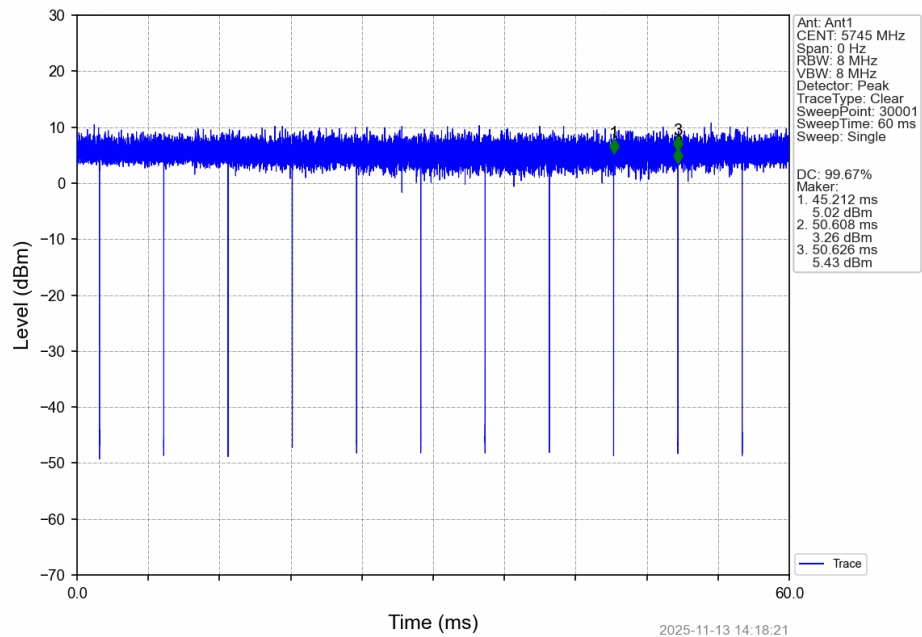
802.11n(HT20)_MCH_5200MHz_Ant1_NTN



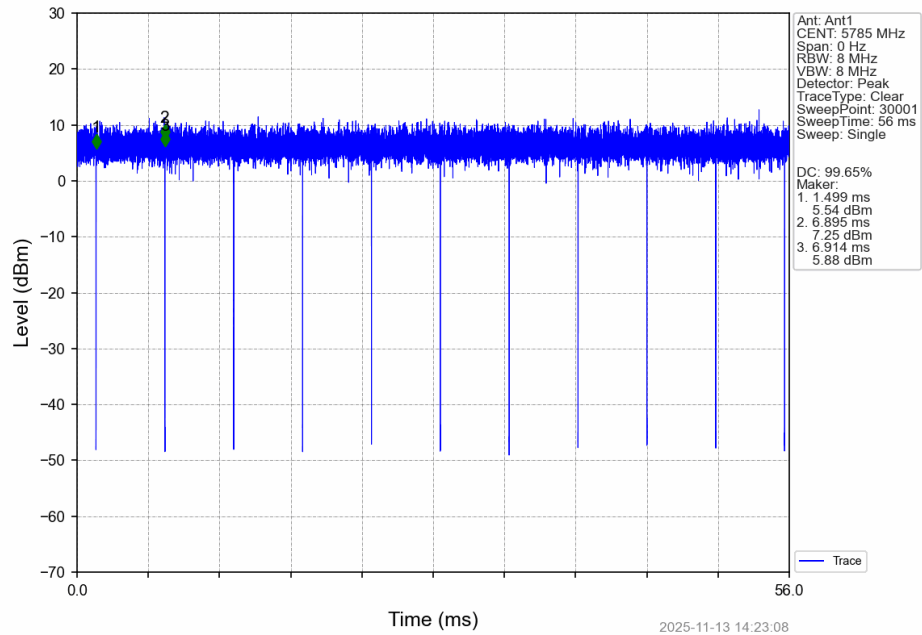
802.11n(HT20) HCH 5240MHz Ant1 NTN



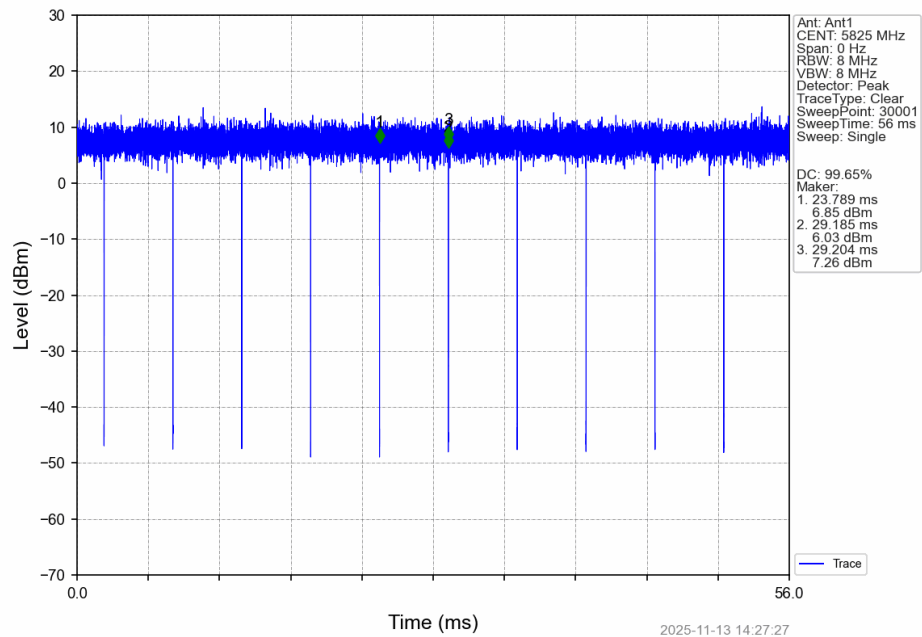
802.11n(HT20)_LCH_5745MHz_Ant1_NTN



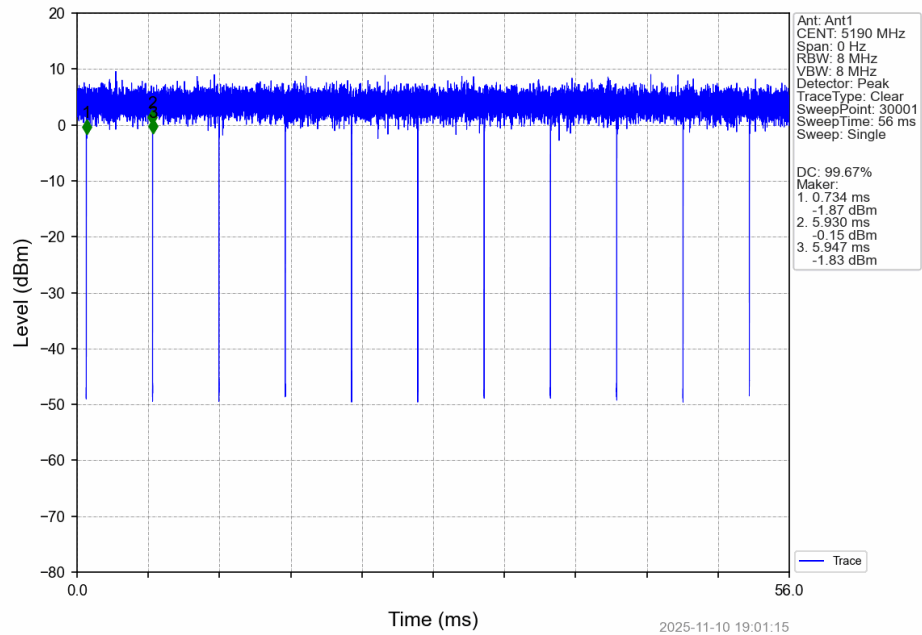
802.11n(HT20) MCH 5785MHz Ant1 NTN



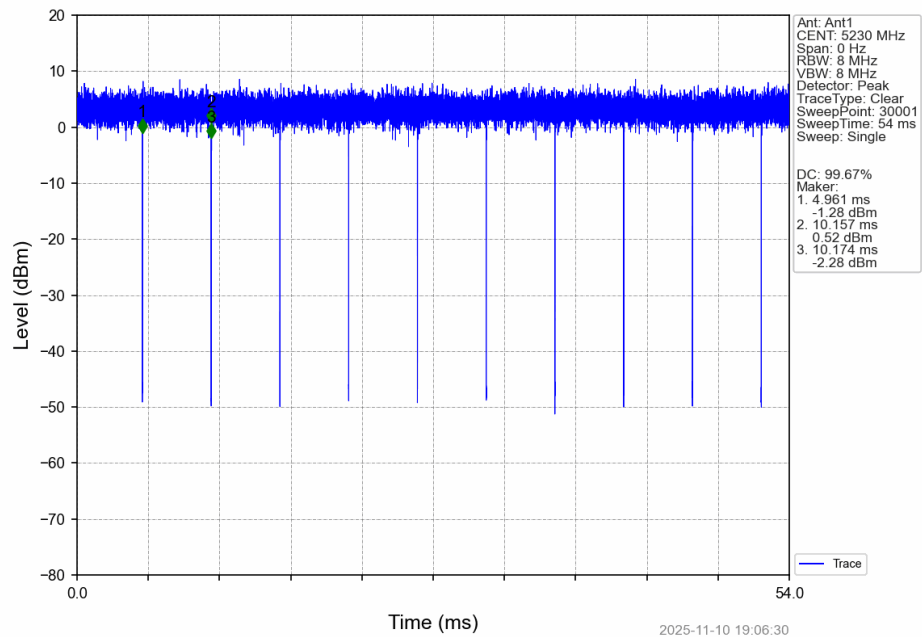
802.11n(HT20)_HCH_5825MHz_Ant1_NTN



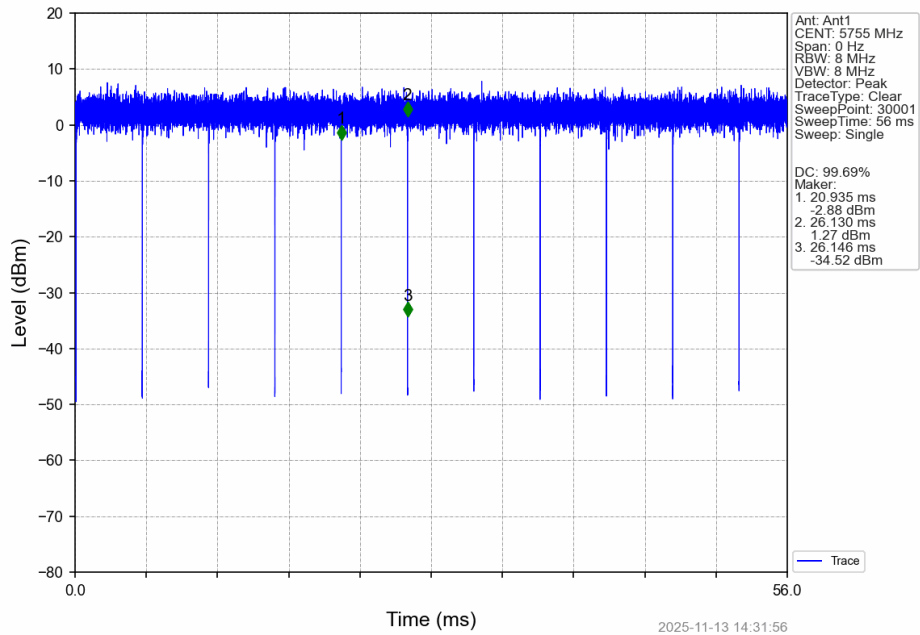
802.11n(HT40) LCH 5190MHz Ant1 NTN



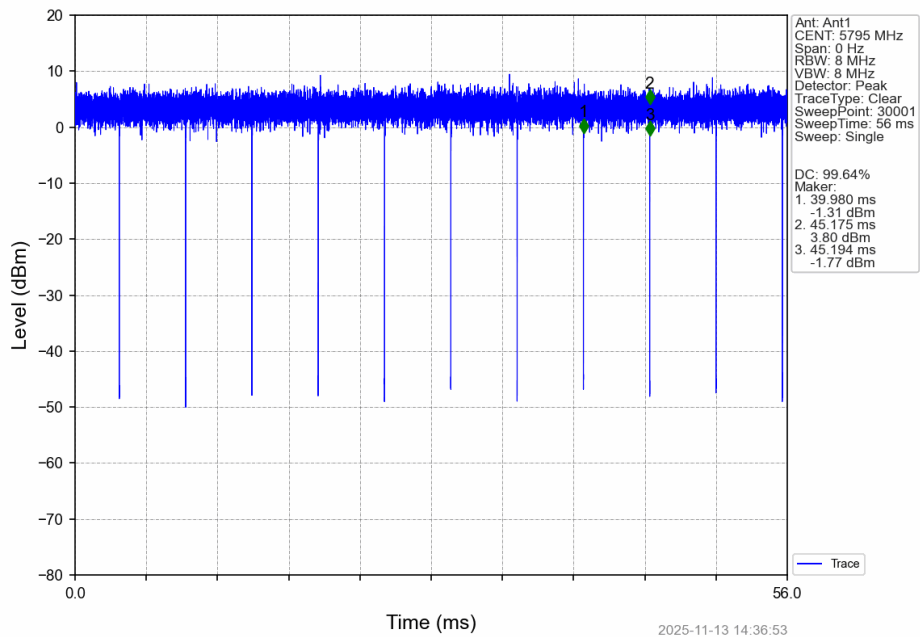
802.11n(HT40)_HCH_5230MHz_Ant1_NTN



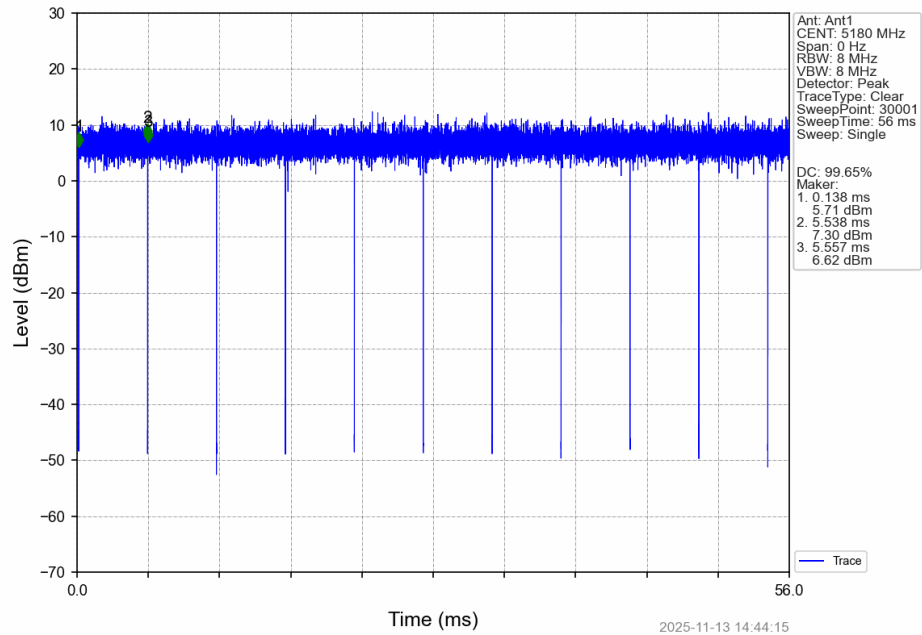
802.11n(HT40) LCH 5755MHz Ant1 NTN



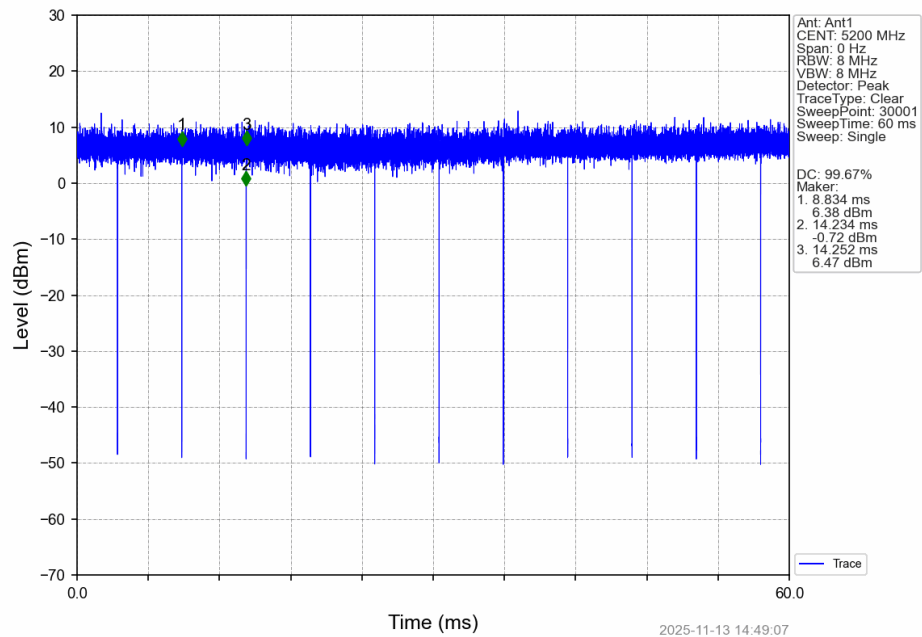
802.11n(HT40)_HCH_5795MHz_Ant1_NTN



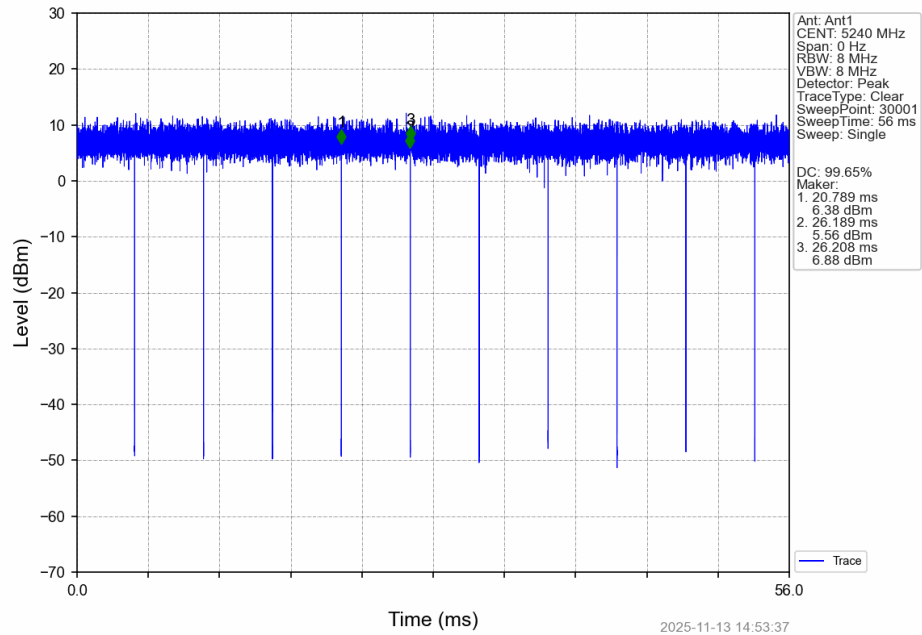
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



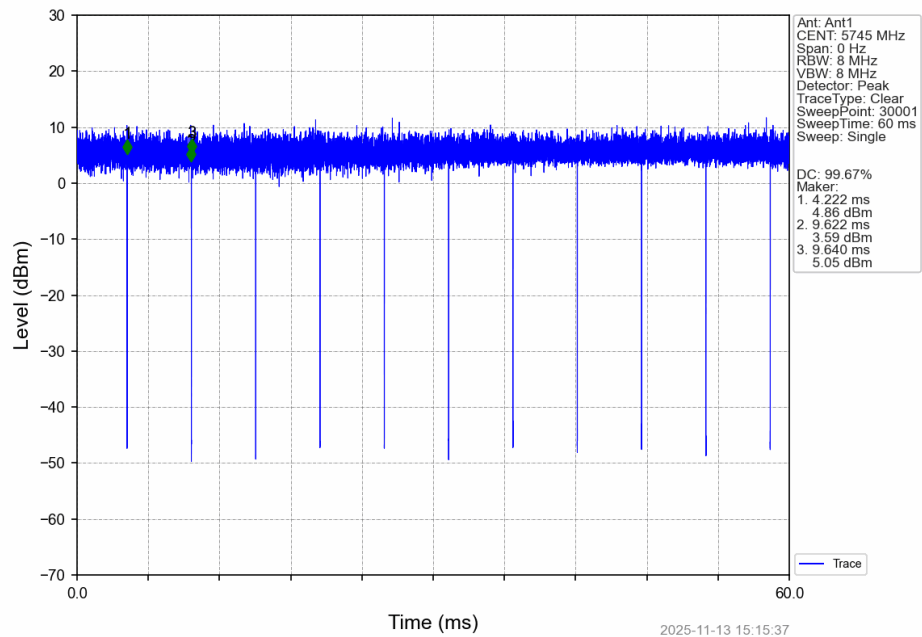
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



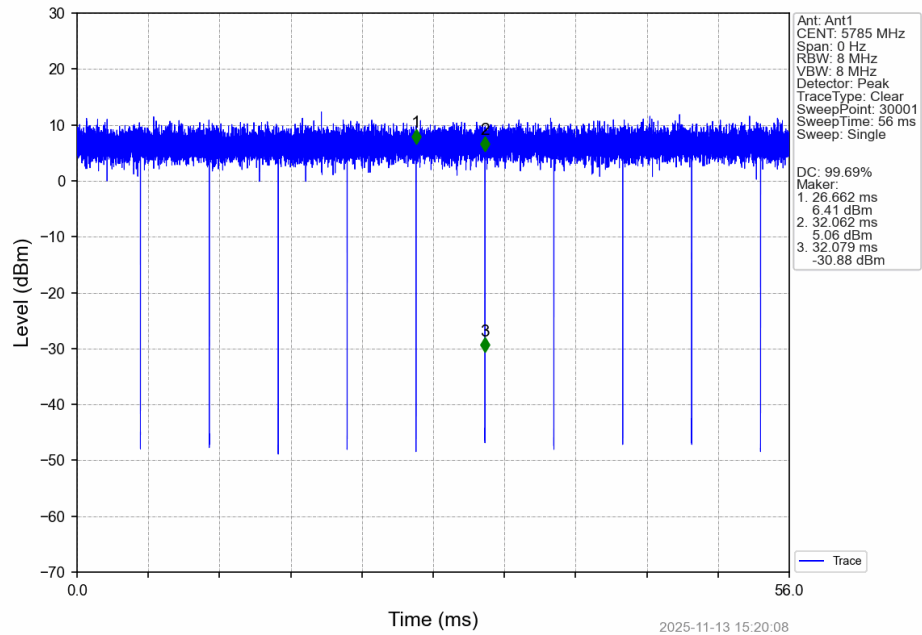
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



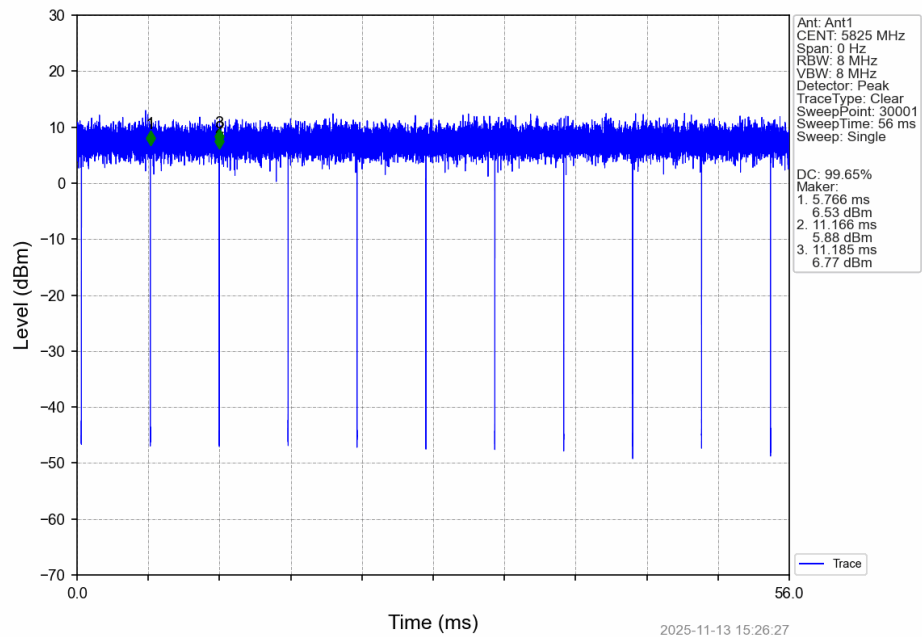
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTN



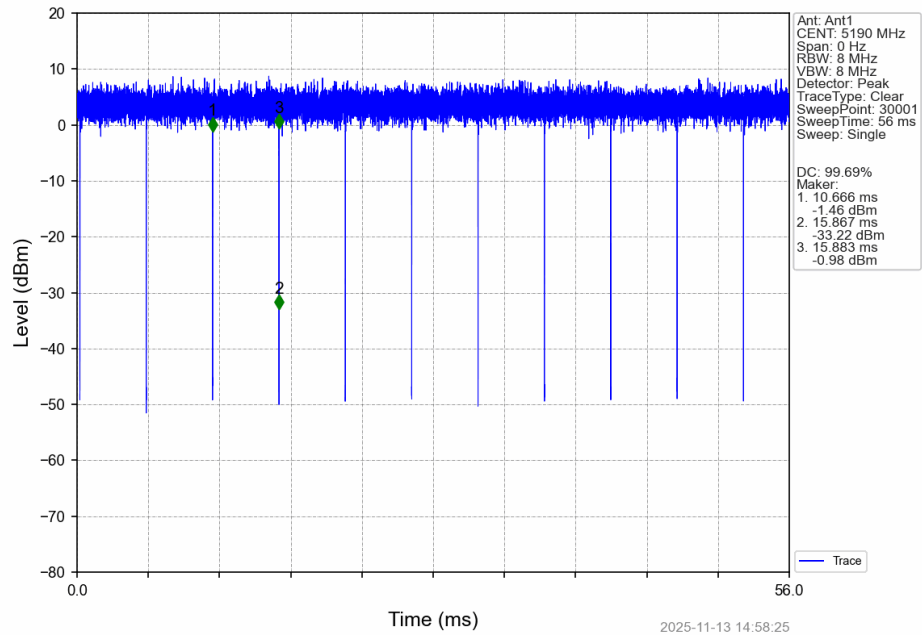
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



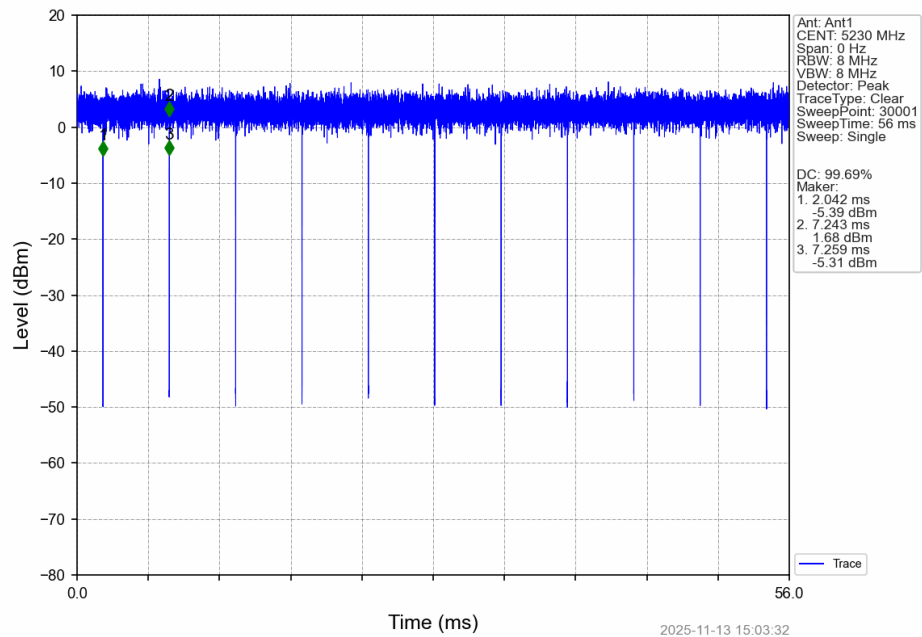
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTN



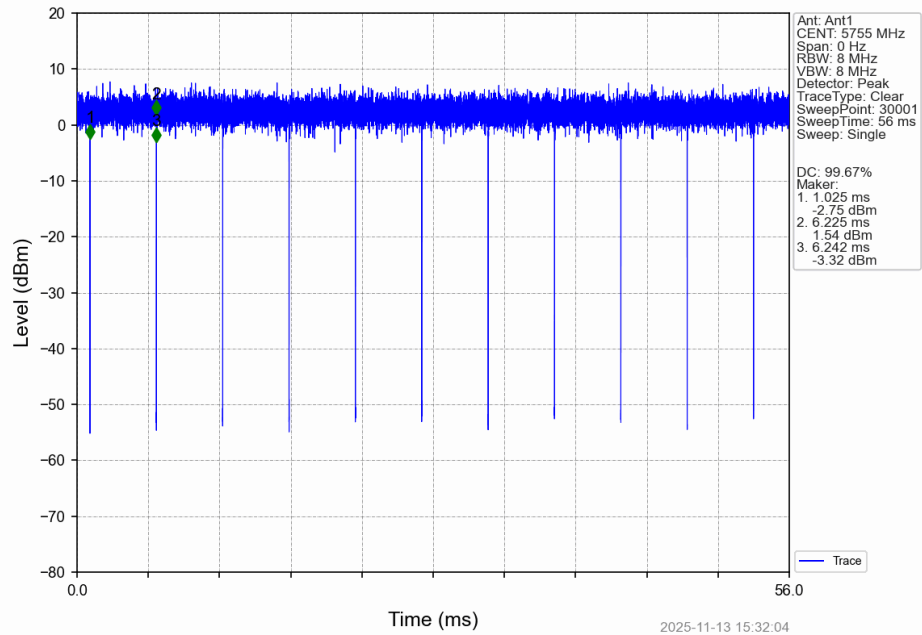
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



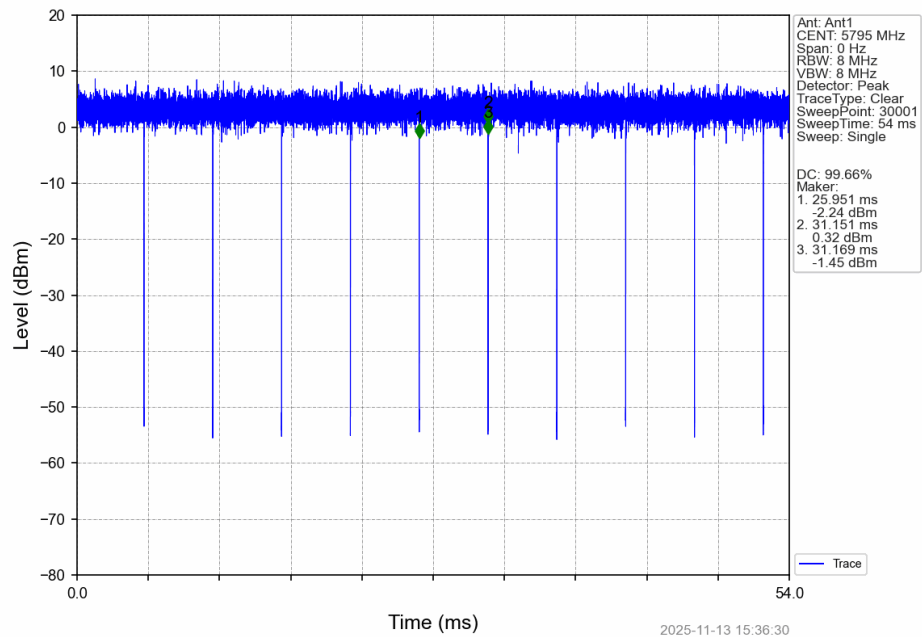
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTN



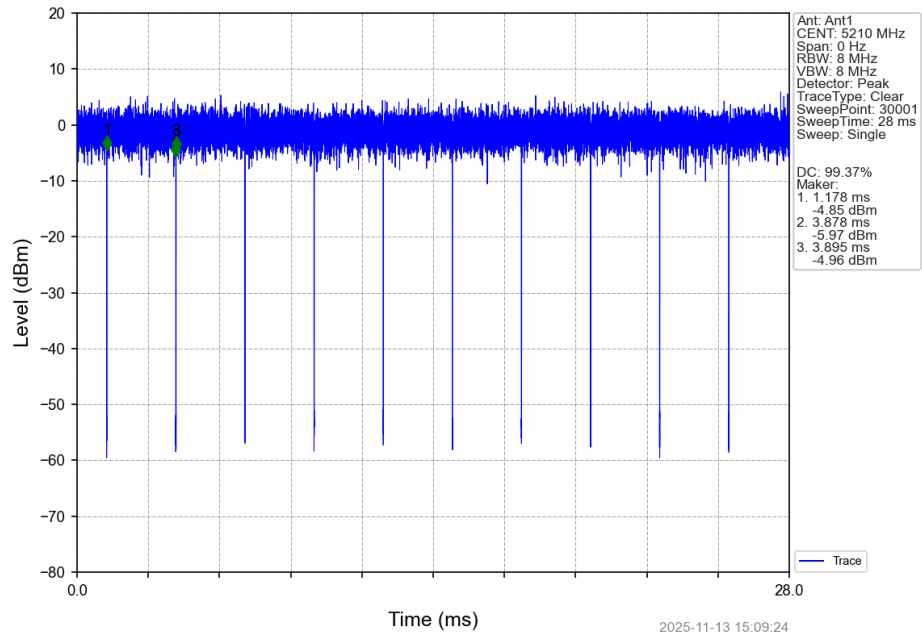
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



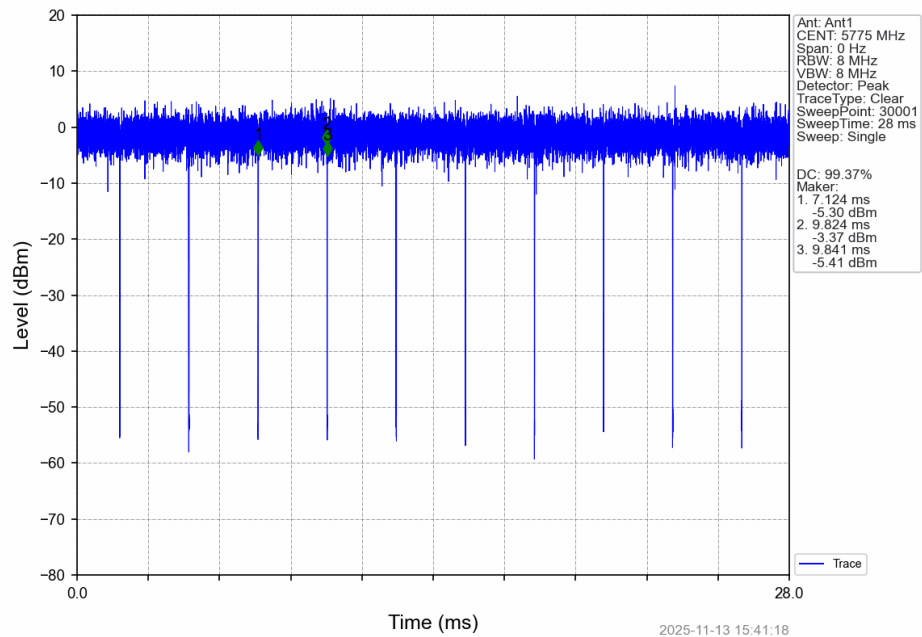
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTN



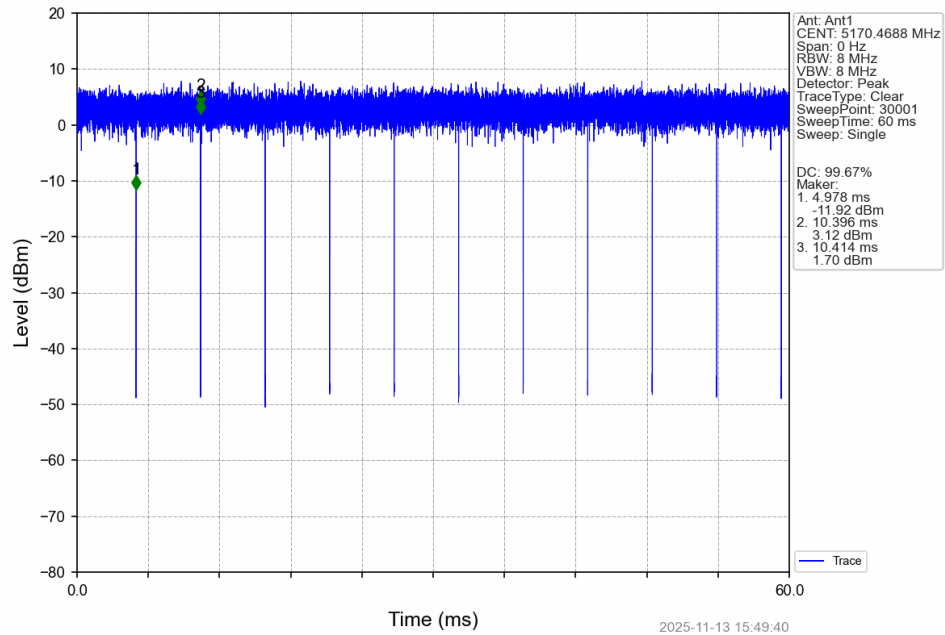
802.11ac(VHT80) MCH 5210MHz Ant1 NTN



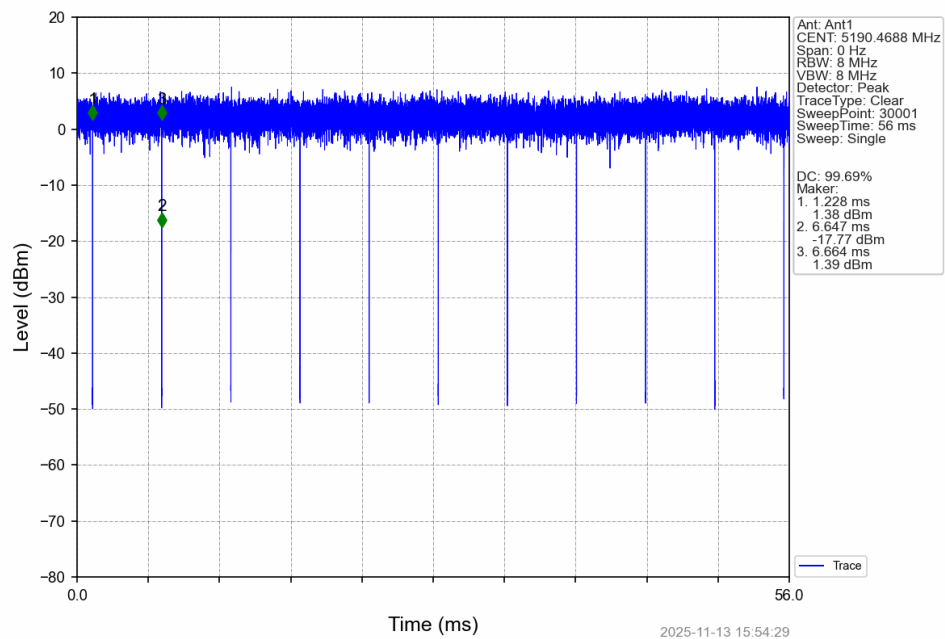
802.11ac(VHT80) MCH 5775MHz Ant1 NTN



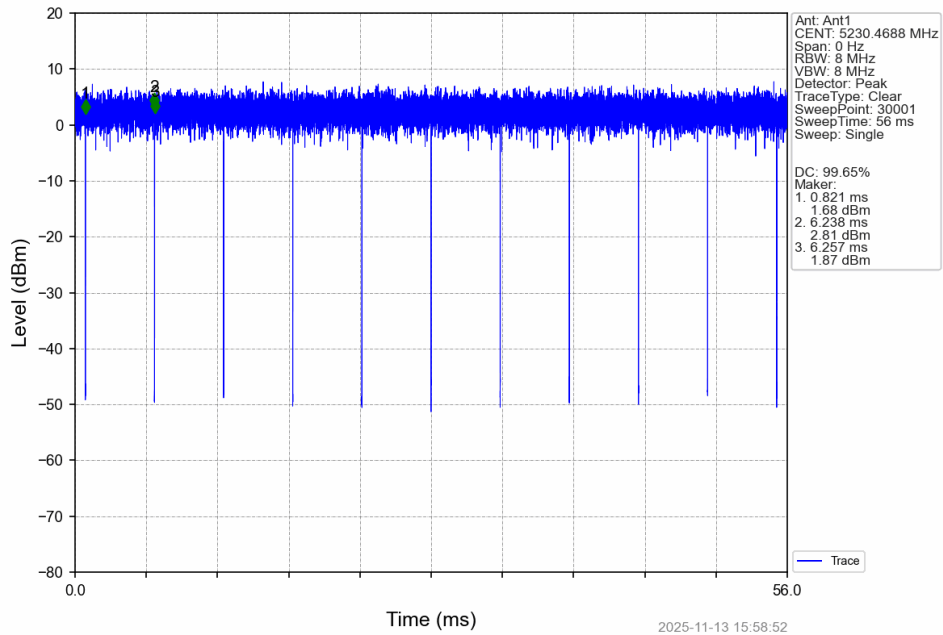
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



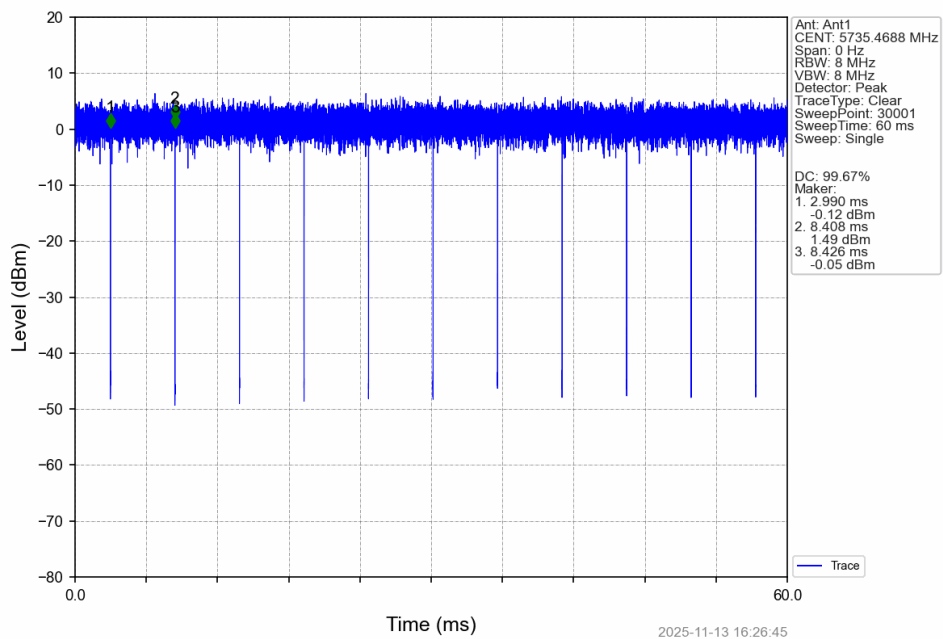
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



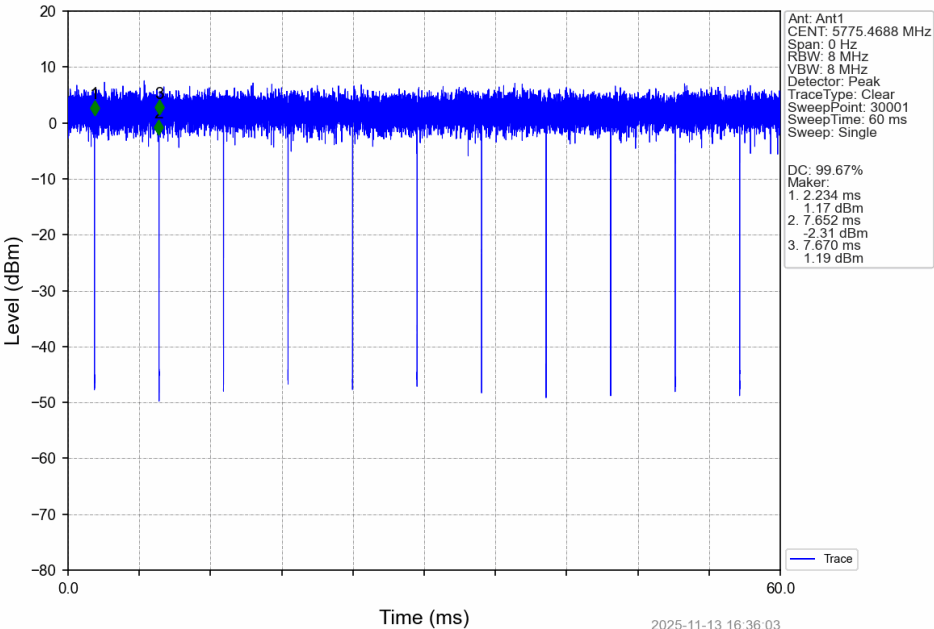
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



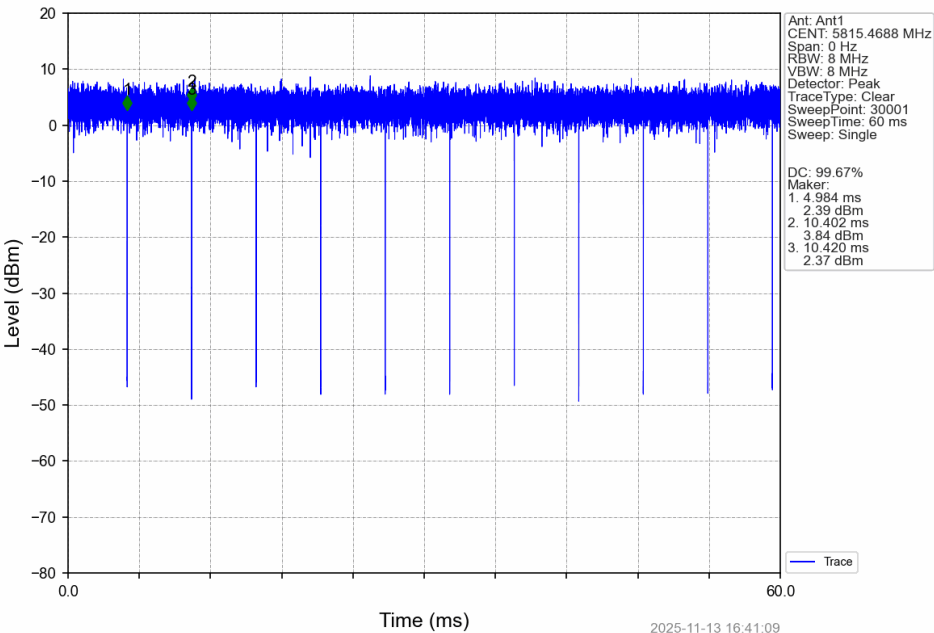
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



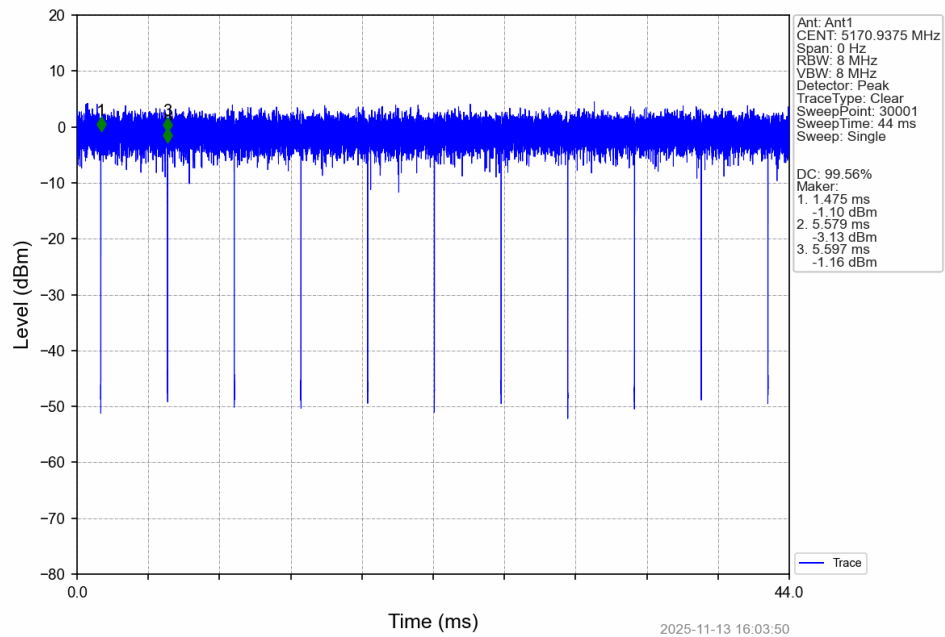
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



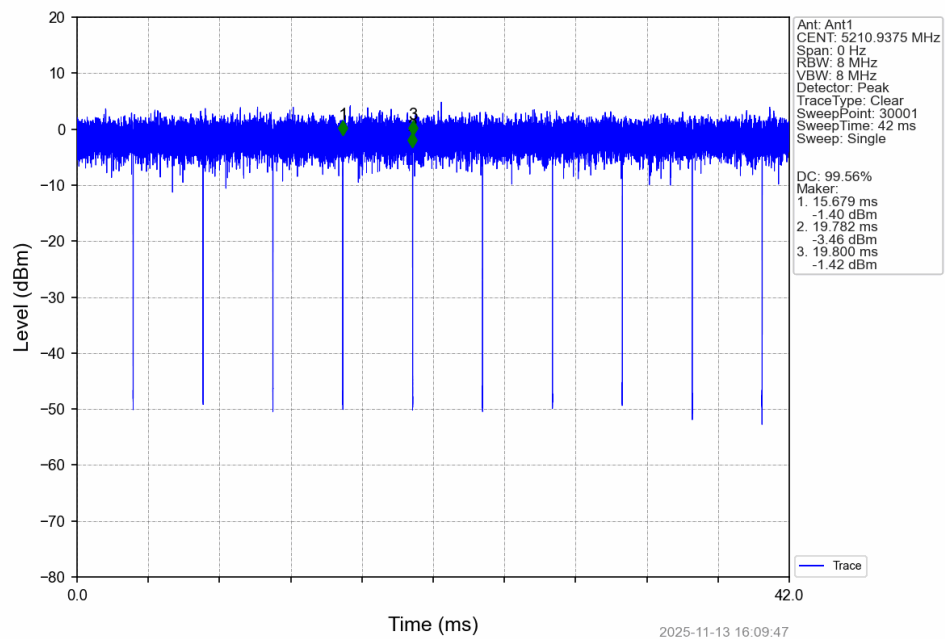
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



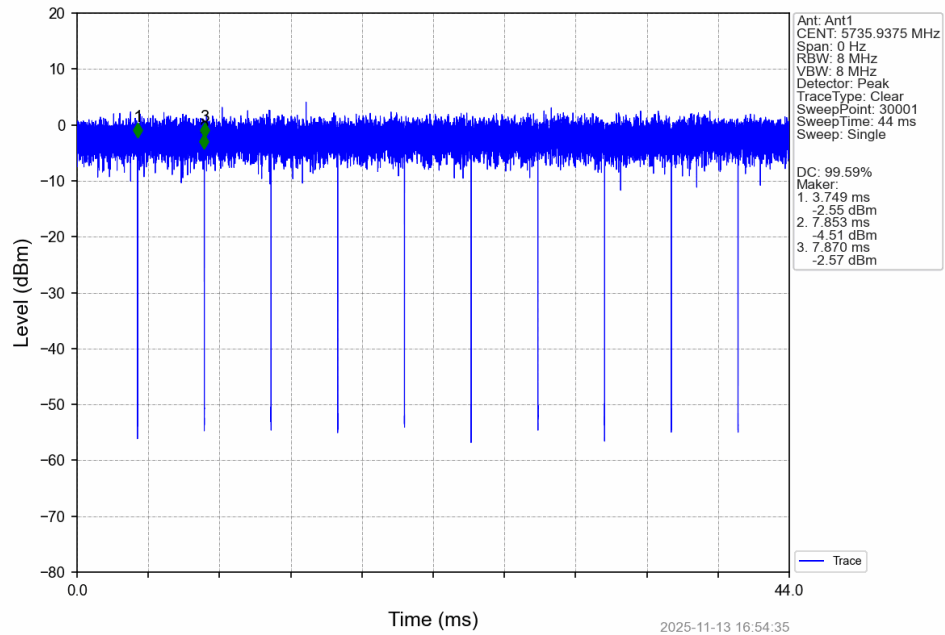
802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN



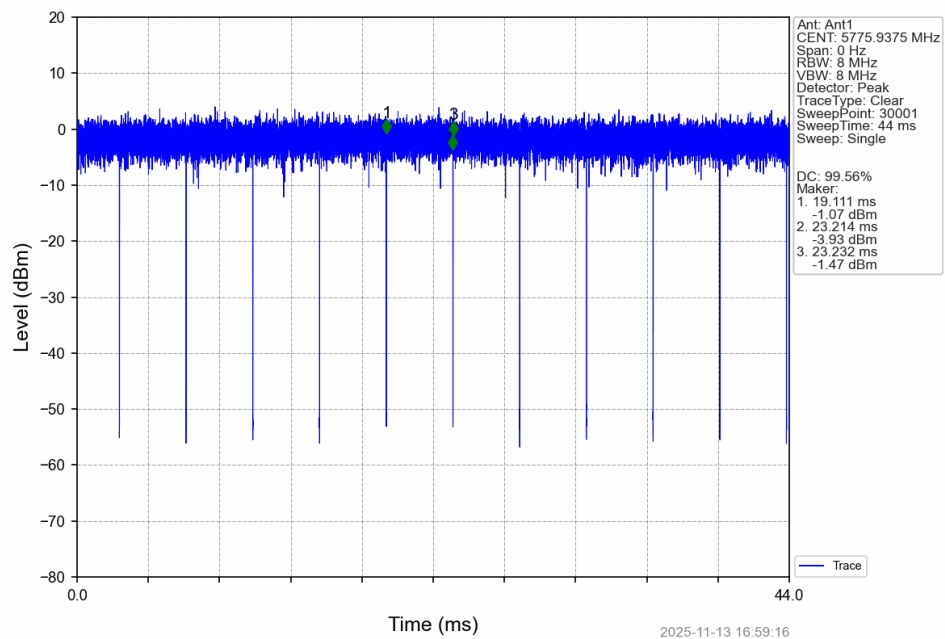
802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN



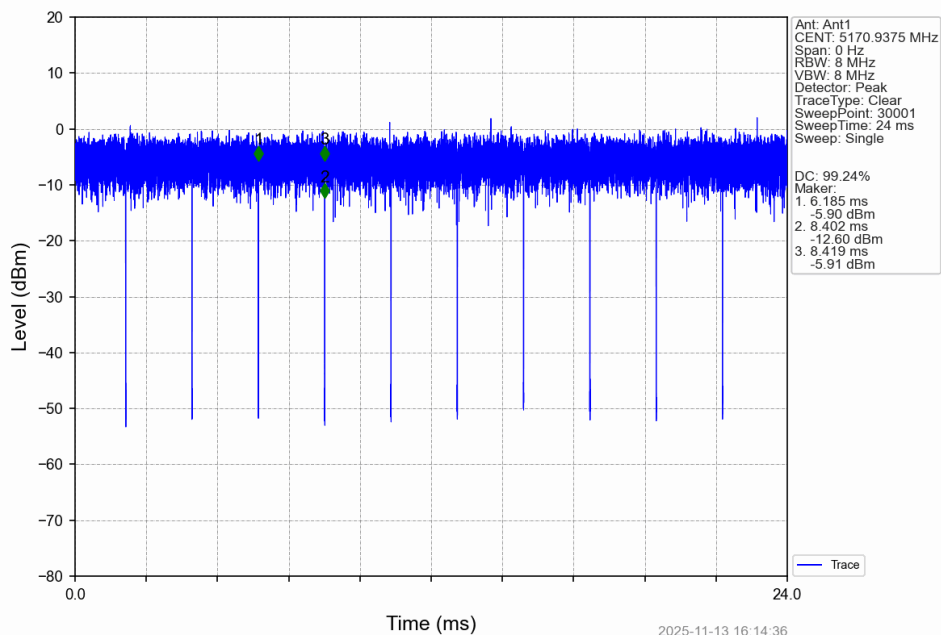
802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



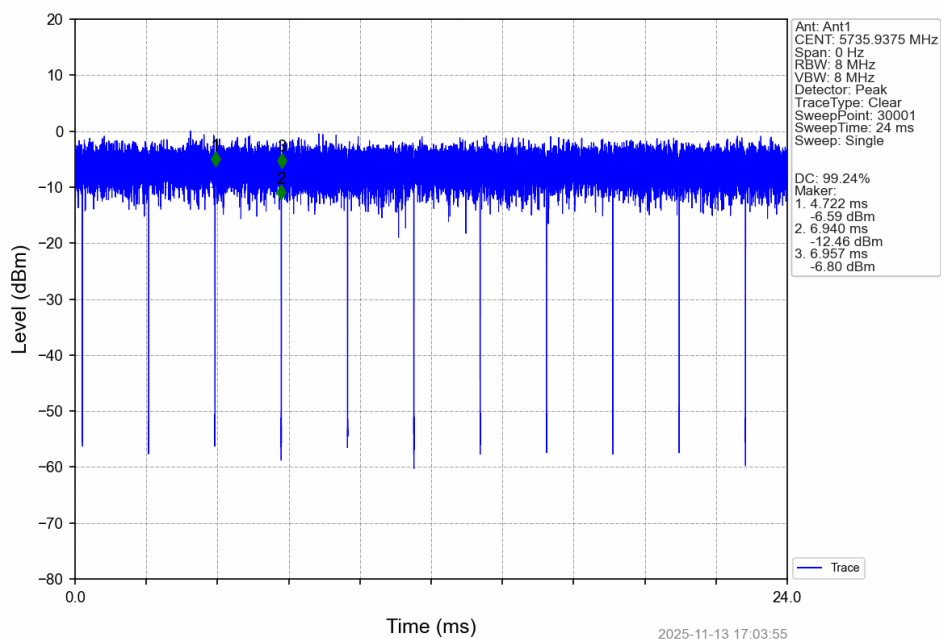
802.11ax(HEW40) HCH 5795MHz SU / Ant1 NTN



802.11ax(HEW80) MCH 5210MHz SU / Ant1 NTN



802.11ax(HEW80) MCH 5775MHz SU / 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	5180	1	16.778	/	Pass
			2	16.784	/	Pass
		5200	1	16.790	/	Pass
			2	16.756	/	Pass
		5240	1	16.818	/	Pass
			2	16.784	/	Pass
		5745	1	16.790	/	Pass
			2	16.840	/	Pass
		5785	1	16.813	/	Pass
			2	16.817	/	Pass
		5825	1	16.740	/	Pass
			2	16.754	/	Pass
802.11n (HT20)	SISO	5180	1	17.898	/	Pass
			2	17.888	/	Pass
		5200	1	17.879	/	Pass
			2	17.882	/	Pass
		5240	1	17.922	/	Pass
			2	17.906	/	Pass
		5745	1	17.881	/	Pass
			2	17.914	/	Pass
		5785	1	17.904	/	Pass
			2	17.909	/	Pass
		5825	1	17.865	/	Pass
			2	17.949	/	Pass
802.11n (HT40)	SISO	5190	1	36.322	/	Pass
			2	36.297	/	Pass
		5230	1	36.328	/	Pass
			2	36.290	/	Pass
		5755	1	36.337	/	Pass
			2	36.344	/	Pass
		5795	1	36.301	/	Pass
			2	36.296	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.897	/	Pass
			2	17.922	/	Pass
		5200	1	17.911	/	Pass
			2	17.918	/	Pass
		5240	1	17.899	/	Pass
			2	17.926	/	Pass
		5745	1	17.908	/	Pass
			2	17.930	/	Pass
		5785	1	17.934	/	Pass
			2	17.964	/	Pass
		5825	1	17.893	/	Pass
			2	17.926	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.333	/	Pass
			2	36.283	/	Pass
		5230	1	36.320	/	Pass

		5755	2	36.273	/	Pass
			1	36.361	/	Pass
			2	36.331	/	Pass
		5795	1	36.283	/	Pass
			2	36.310	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.044	/	Pass
			2	76.146	/	Pass
		5775	1	76.018	/	Pass
			2	76.177	/	Pass
802.11ax (HEW20)	SISO	5180	1	19.114	/	Pass
			2	19.192	/	Pass
		5200	1	19.097	/	Pass
			2	19.127	/	Pass
		5240	1	19.150	/	Pass
			2	19.131	/	Pass
		5745	1	19.099	/	Pass
			2	19.090	/	Pass
		5785	1	19.070	/	Pass
			2	19.129	/	Pass
		5825	1	19.094	/	Pass
			2	19.111	/	Pass
802.11ax (HEW40)	SISO	5190	1	38.011	/	Pass
			2	37.994	/	Pass
		5230	1	37.962	/	Pass
			2	38.016	/	Pass
		5755	1	38.034	/	Pass
			2	38.081	/	Pass
		5795	1	37.949	/	Pass
			2	37.967	/	Pass
802.11ax (HEW80)	SISO	5210	1	77.707	/	Pass
			2	77.777	/	Pass
		5775	1	77.612	/	Pass
			2	77.845	/	Pass

2.1.2 26dB BW

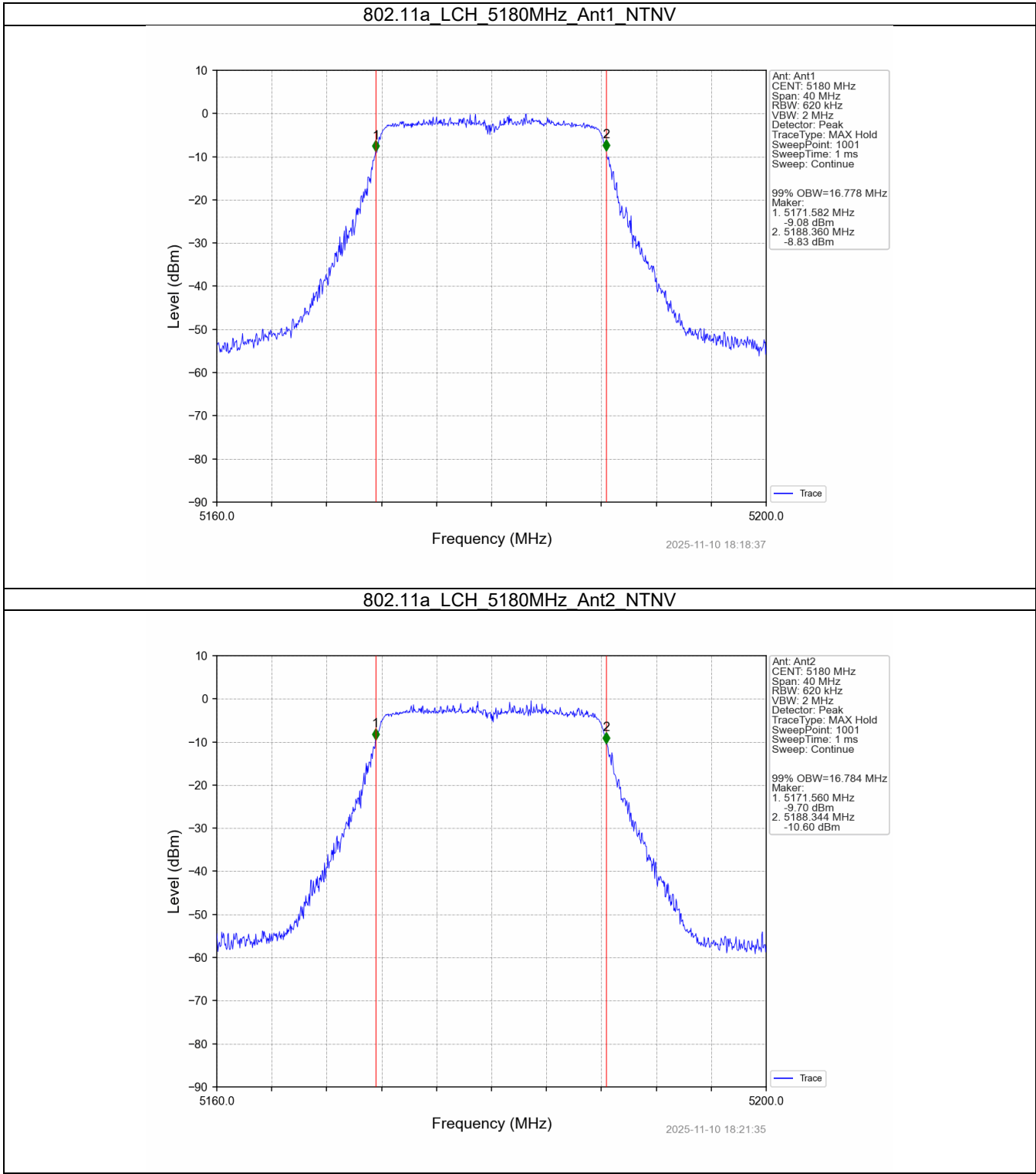
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.795	/	Pass
			2	19.879	/	Pass
		5200	1	19.632	/	Pass
			2	19.646	/	Pass
		5240	1	20.025	/	Pass
			2	19.954	/	Pass
802.11n (HT20)	SISO	5180	1	20.917	/	Pass
			2	20.766	/	Pass
		5200	1	21.046	/	Pass
			2	20.837	/	Pass
		5240	1	20.774	/	Pass
			2	20.903	/	Pass
802.11n (HT40)	SISO	5190	1	40.362	/	Pass
			2	40.055	/	Pass
		5230	1	40.416	/	Pass
			2	40.576	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.289	/	Pass
			2	20.736	/	Pass
		5200	1	21.070	/	Pass
			2	20.922	/	Pass
		5240	1	20.931	/	Pass
			2	20.445	/	Pass
802.11ac (VHT40)	SISO	5190	1	40.550	/	Pass
			2	40.677	/	Pass
		5230	1	40.336	/	Pass
			2	40.230	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.445	/	Pass
			2	83.080	/	Pass
802.11ax (HEW20)	SISO	5180	1	21.322	/	Pass
			2	21.034	/	Pass
		5200	1	21.422	/	Pass
			2	21.102	/	Pass
		5240	1	21.987	/	Pass
			2	21.542	/	Pass
802.11ax (HEW40)	SISO	5190	1	41.223	/	Pass
			2	41.262	/	Pass
		5230	1	41.428	/	Pass
			2	40.840	/	Pass
802.11ax (HEW80)	SISO	5210	1	83.232	/	Pass
			2	82.992	/	Pass

2.1.3 6dB BW

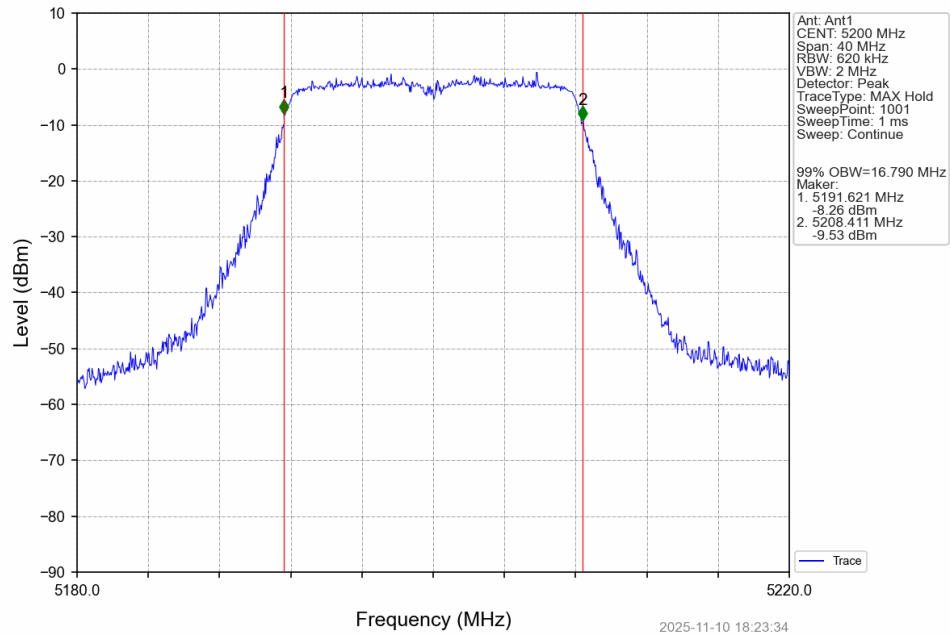
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.343	≥ 0.5	Pass
			2	16.363	≥ 0.5	Pass
		5785	1	16.356	≥ 0.5	Pass
			2	16.324	≥ 0.5	Pass
		5825	1	16.376	≥ 0.5	Pass
			2	16.367	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.653	≥ 0.5	Pass
			2	17.581	≥ 0.5	Pass
		5785	1	17.674	≥ 0.5	Pass
			2	17.636	≥ 0.5	Pass
		5825	1	17.632	≥ 0.5	Pass
			2	17.598	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.319	≥ 0.5	Pass
			2	35.980	≥ 0.5	Pass
		5795	1	36.313	≥ 0.5	Pass
			2	36.058	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.585	≥ 0.5	Pass
			2	17.603	≥ 0.5	Pass
		5785	1	17.616	≥ 0.5	Pass
			2	17.629	≥ 0.5	Pass
		5825	1	17.585	≥ 0.5	Pass
			2	17.587	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.335	≥ 0.5	Pass
			2	35.685	≥ 0.5	Pass
		5795	1	36.116	≥ 0.5	Pass
			2	36.332	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.237	≥ 0.5	Pass
			2	75.671	≥ 0.5	Pass
802.11ax (HEW20)	SISO	5745	1	19.024	≥ 0.5	Pass
			2	18.600	≥ 0.5	Pass
		5785	1	18.994	≥ 0.5	Pass
			2	18.880	≥ 0.5	Pass
		5825	1	18.633	≥ 0.5	Pass
			2	18.776	≥ 0.5	Pass
802.11ax (HEW40)	SISO	5755	1	37.685	≥ 0.5	Pass
			2	38.066	≥ 0.5	Pass
		5795	1	37.525	≥ 0.5	Pass
			2	37.944	≥ 0.5	Pass
802.11ax (HEW80)	SISO	5775	1	76.632	≥ 0.5	Pass
			2	77.160	≥ 0.5	Pass

2.2 Test Graph

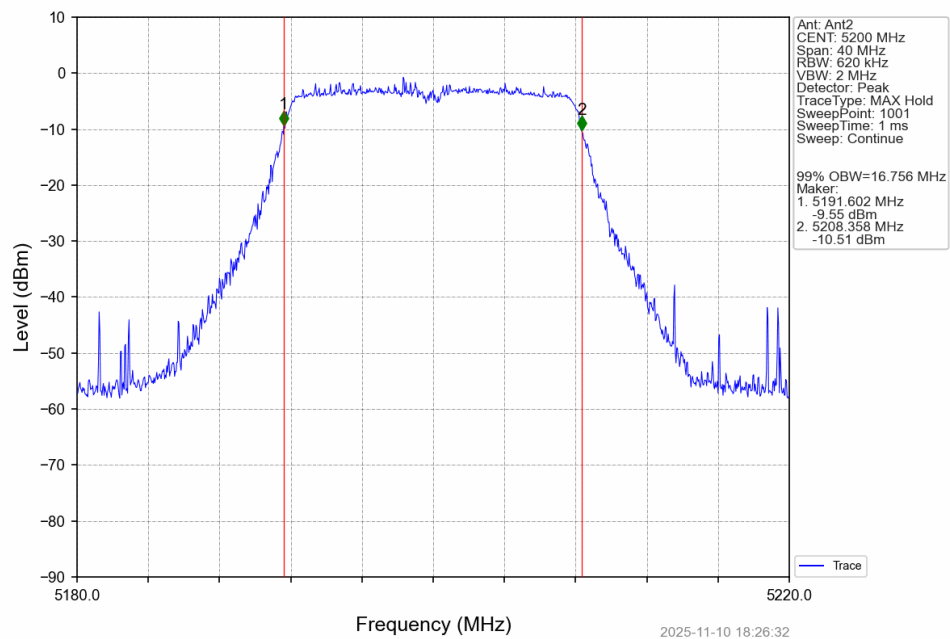
2.2.1 OBW



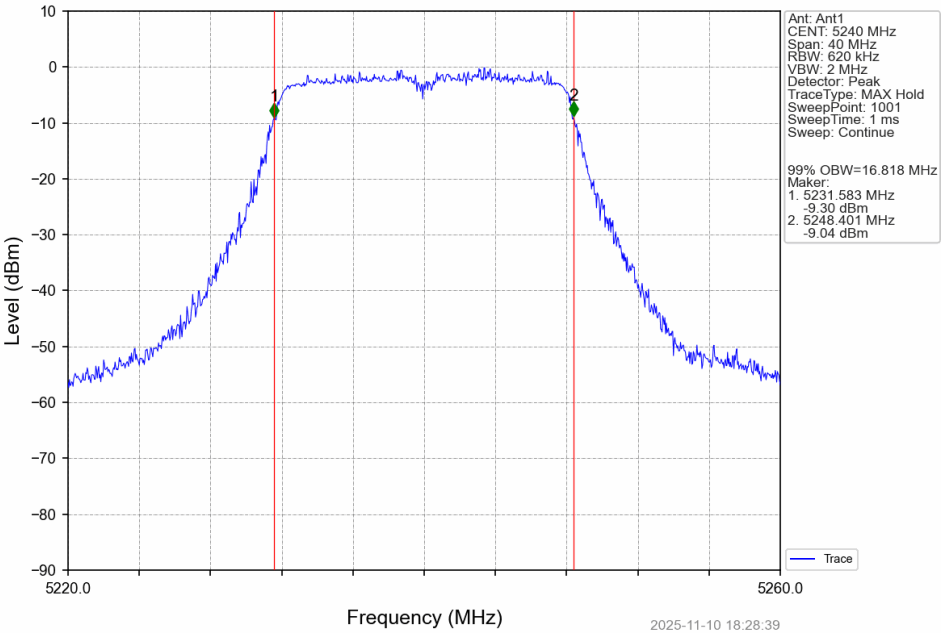
802.11a_MCH_5200MHz_Ant1_NTNV



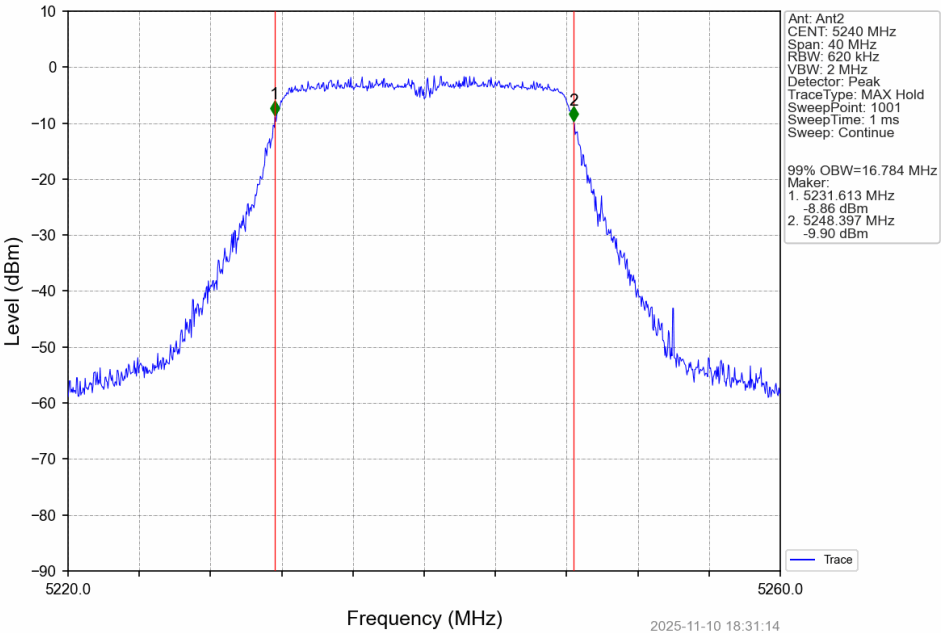
802.11a_MCH_5200MHz_Ant2_NTNV



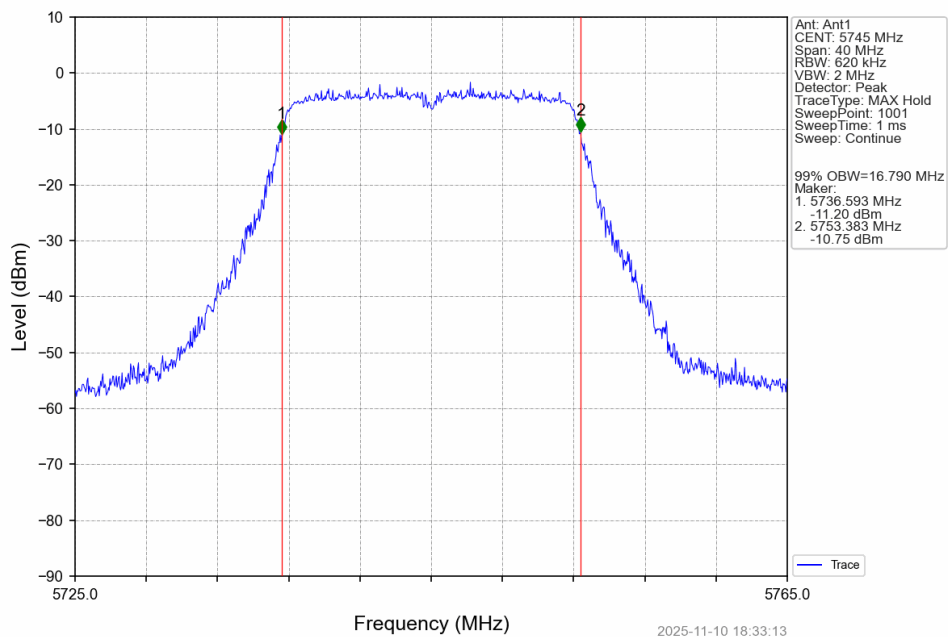
802.11a_HCH_5240MHz_Ant1_NTNV



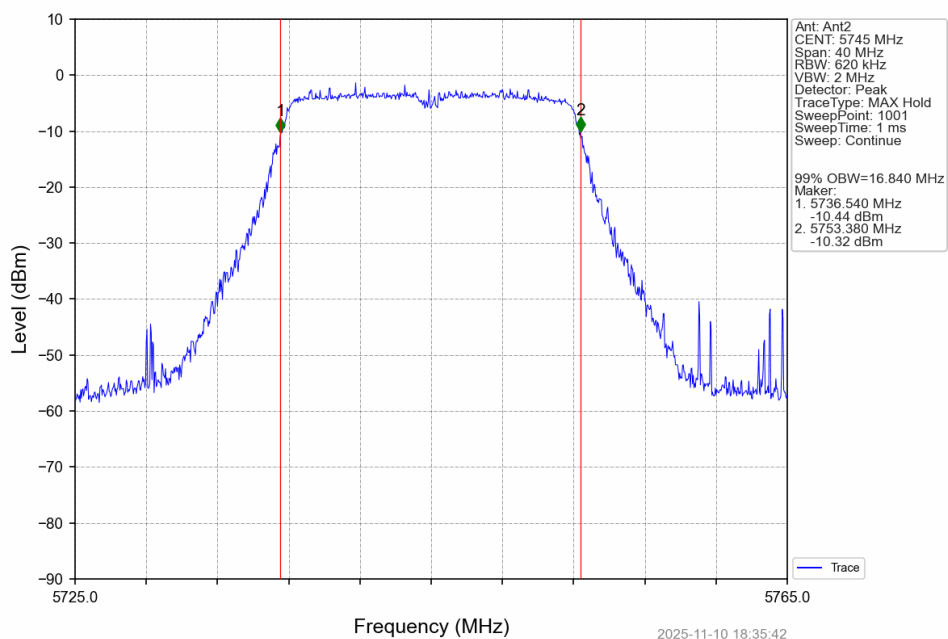
802.11a_HCH_5240MHz_Ant2_NTNV



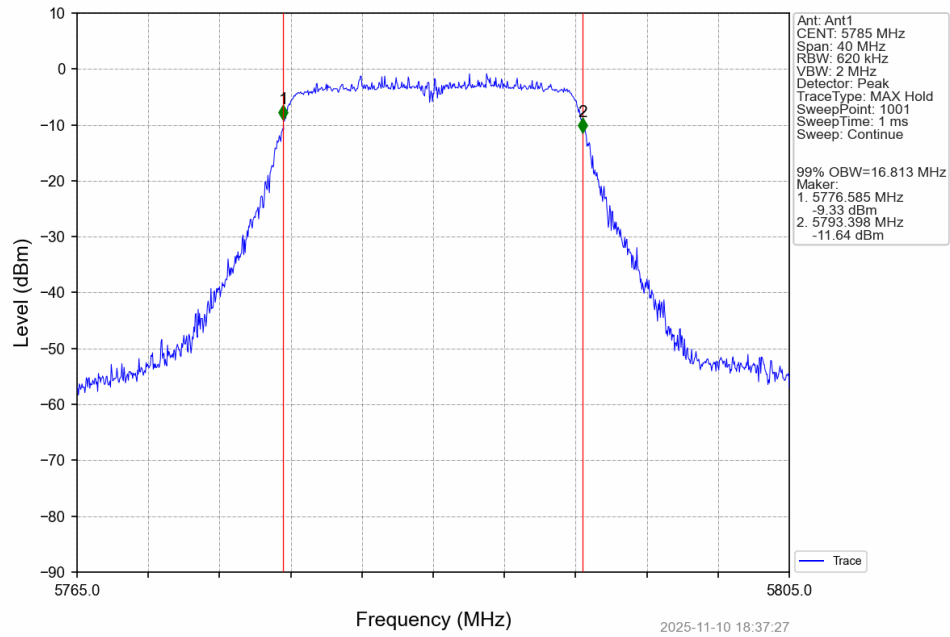
802.11a LCH 5745MHz Ant1 NTV



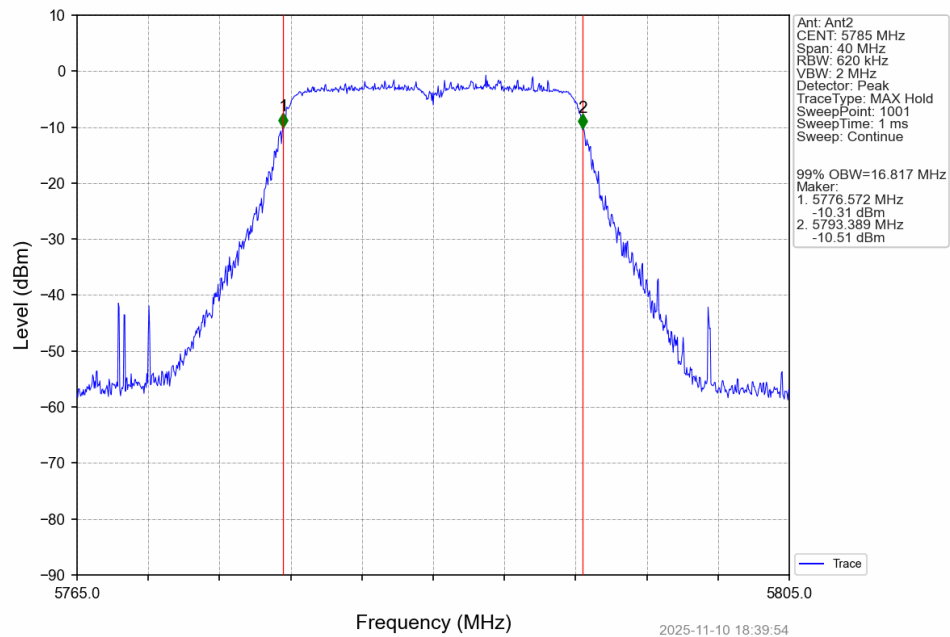
802.11a LCH 5745MHz Ant2 NTV



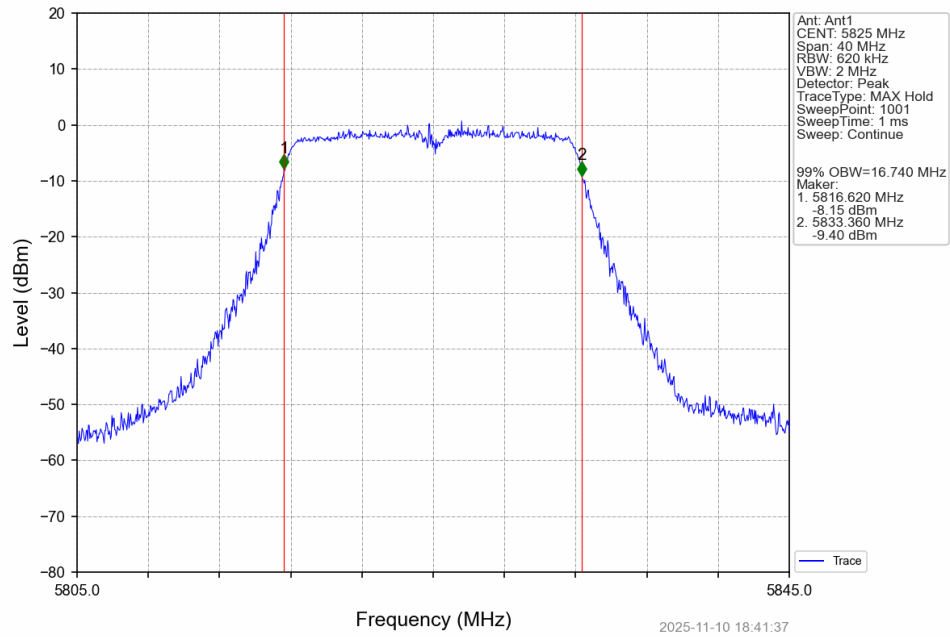
802.11a_MCH_5785MHz_Ant1_NTNV



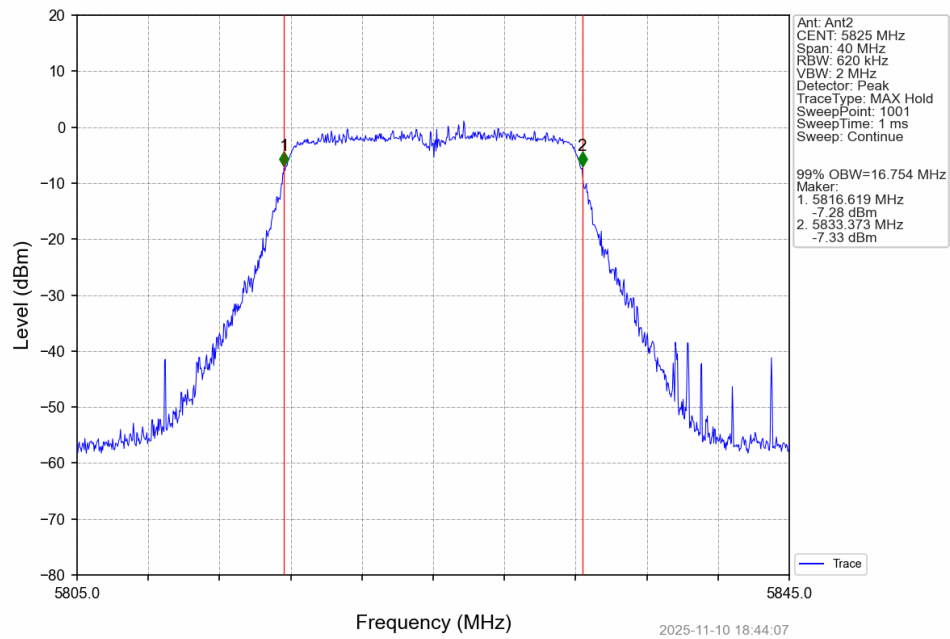
802.11a_MCH_5785MHz_Ant2_NTNV



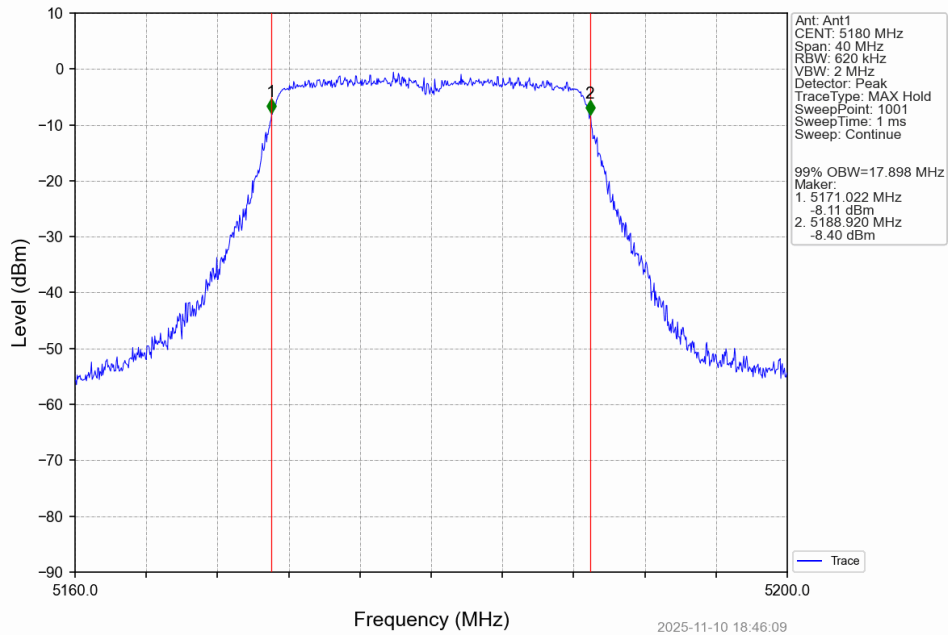
802.11a_HCH_5825MHz_Ant1_NTNV



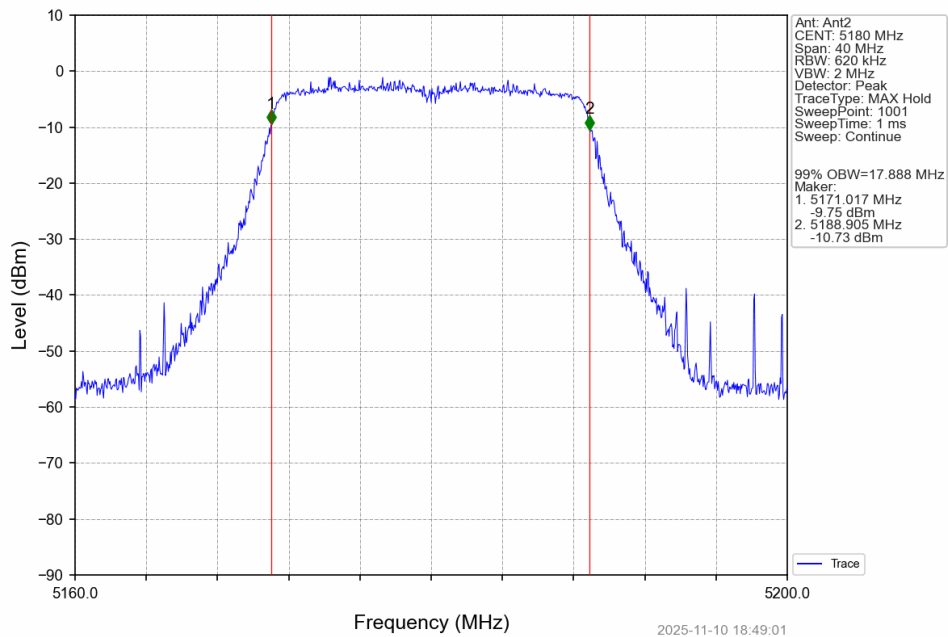
802.11a_HCH_5825MHz_Ant2_NTNV



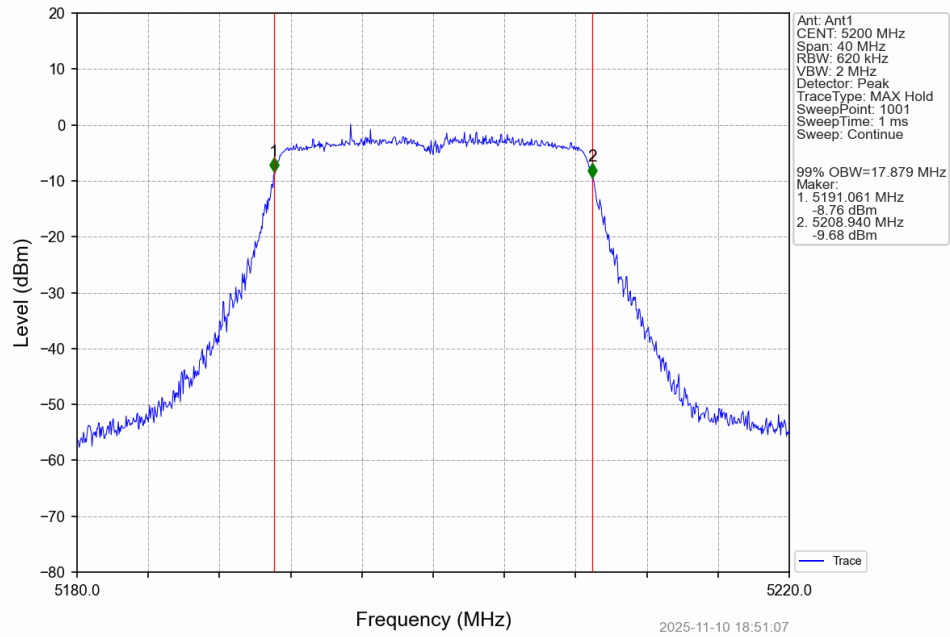
802.11n(HT20) LCH 5180MHz Ant1 NTN



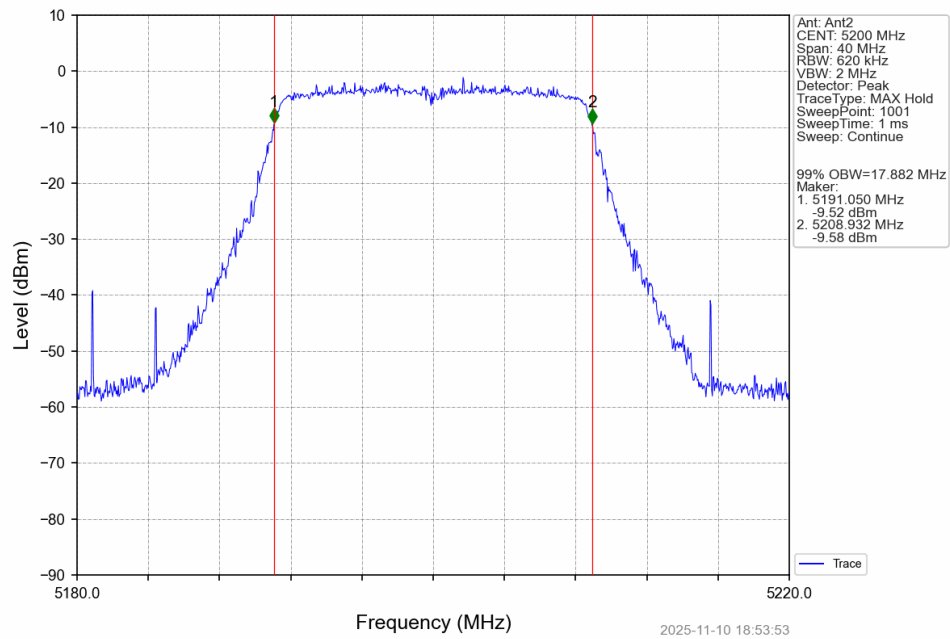
802.11n(HT20) LCH 5180MHz Ant2 NTN



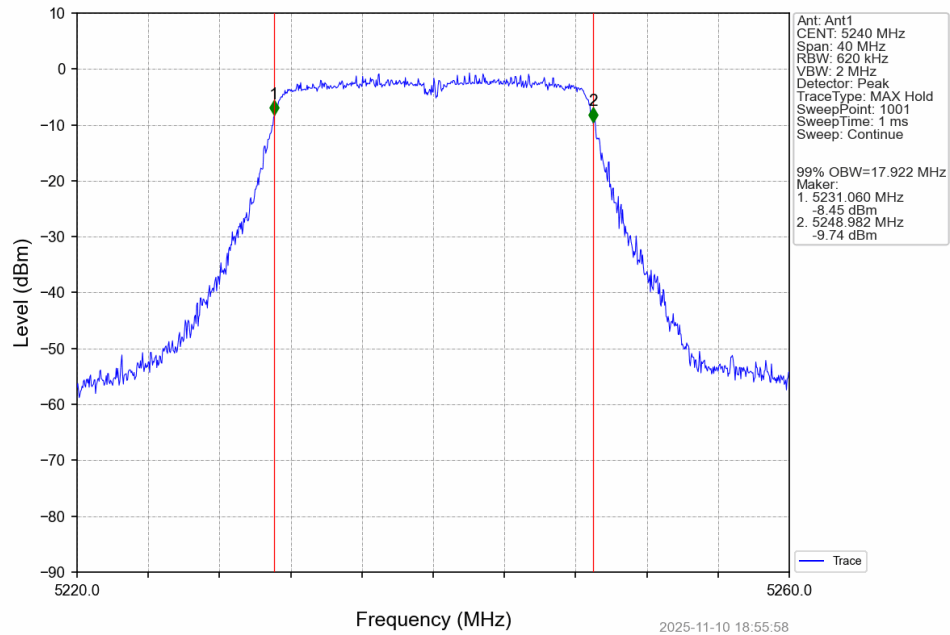
802.11n(HT20) MCH 5200MHz Ant1 NTN



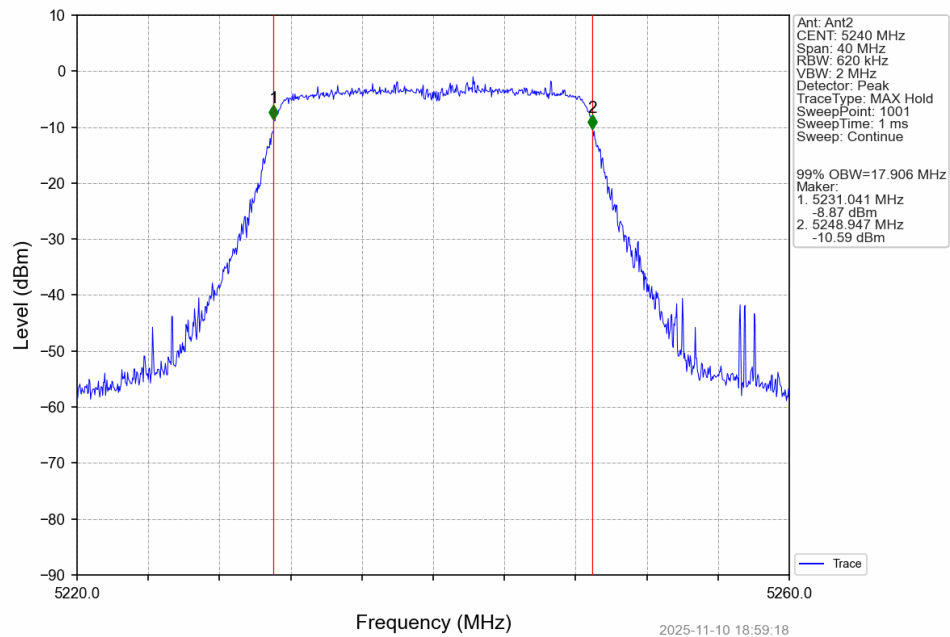
802.11n(HT20)_MCH_5200MHz_Ant2_NTN



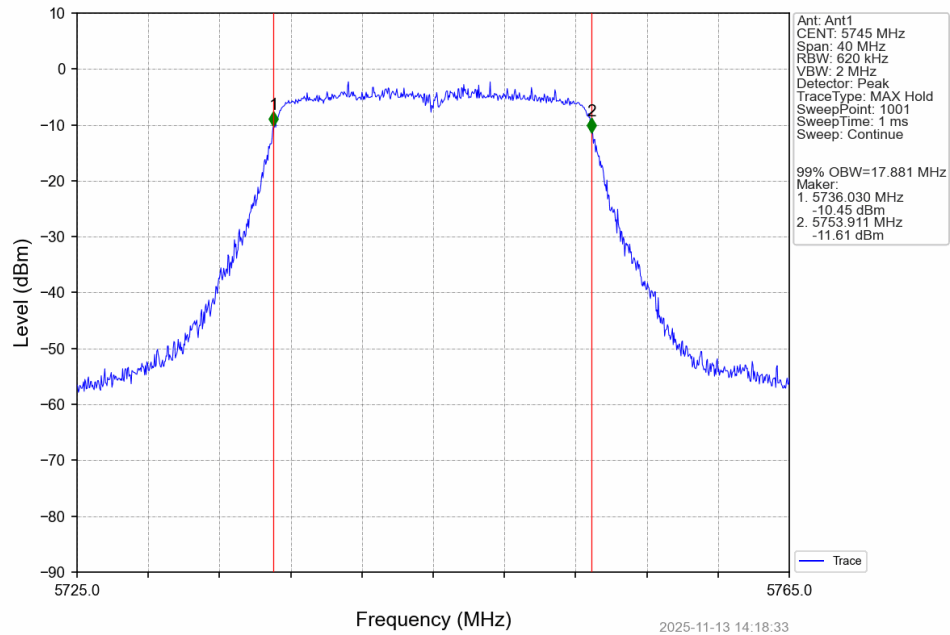
802.11n(HT20) HCH 5240MHz Ant1 NTN



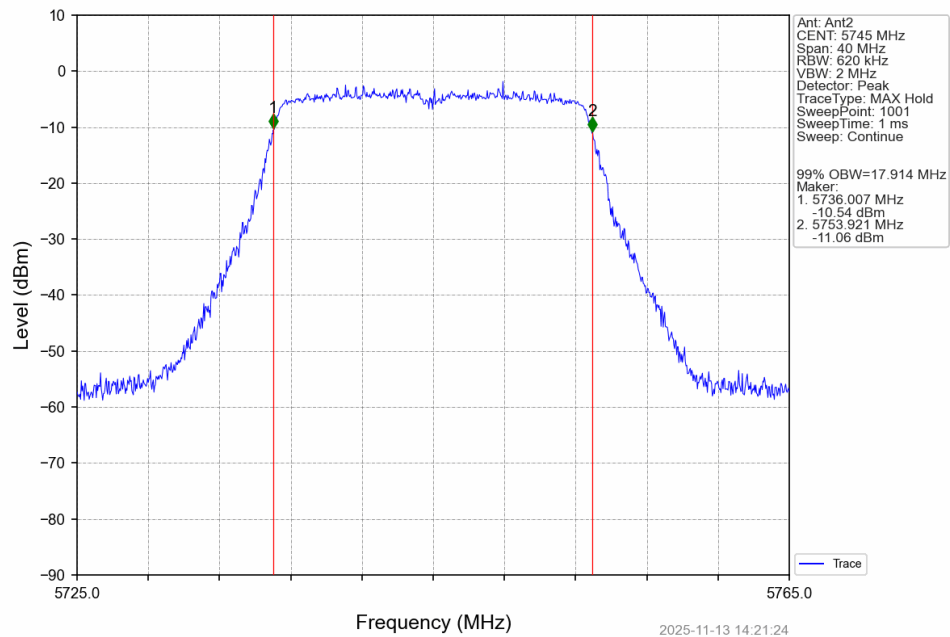
802.11n(HT20)_HCH_5240MHz_Ant2_NTN



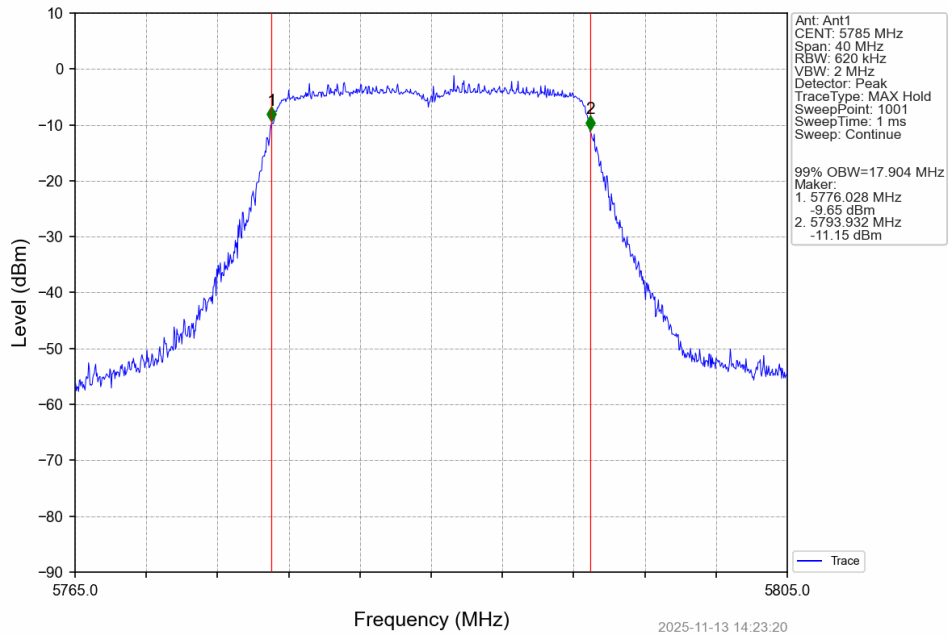
802.11n(HT20) LCH_5745MHz_Ant1_NTNV



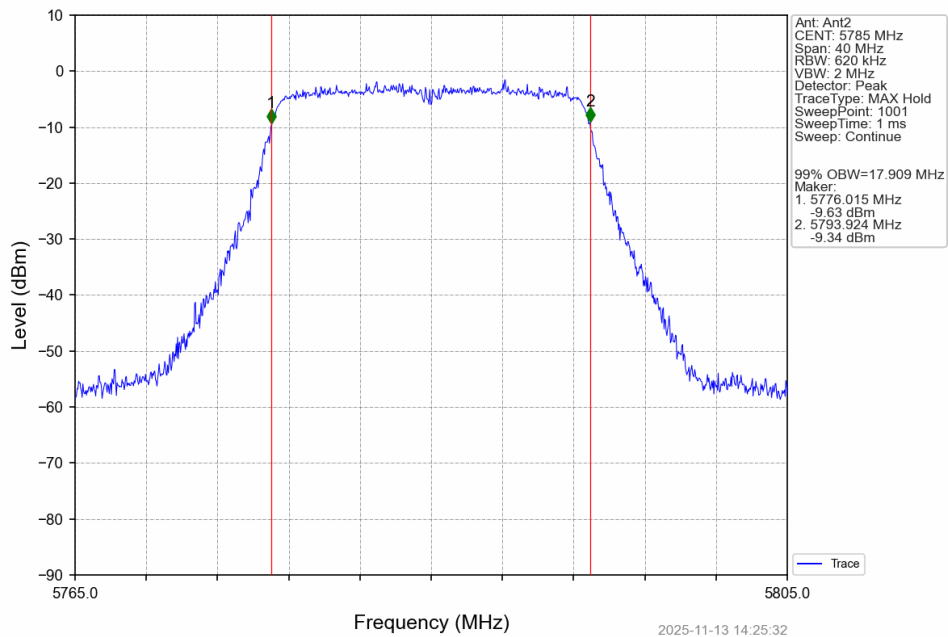
802.11n(HT20) LCH_5745MHz_Ant2_NTNV



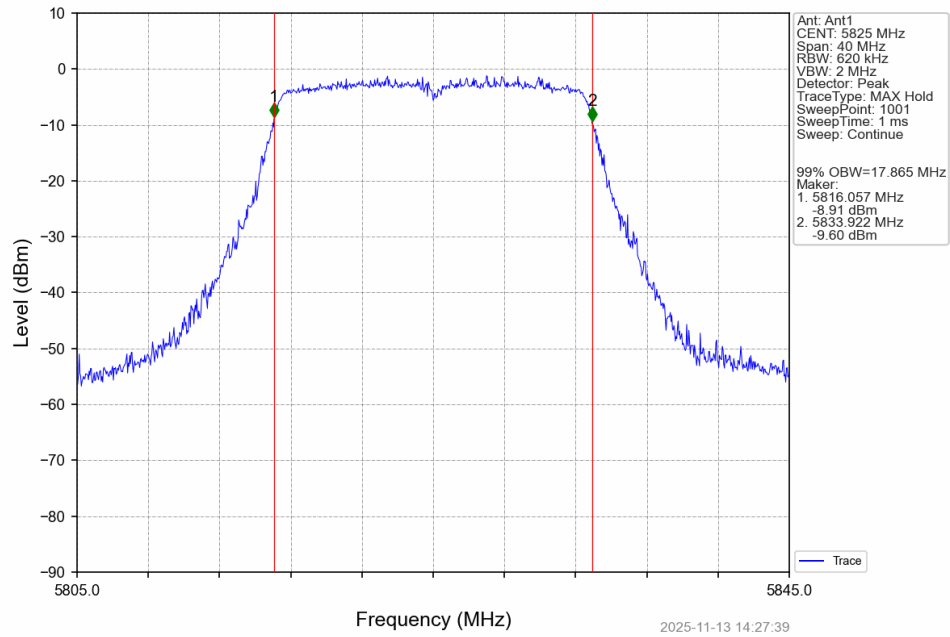
802.11n(HT20) MCH 5785MHz Ant1 NTN



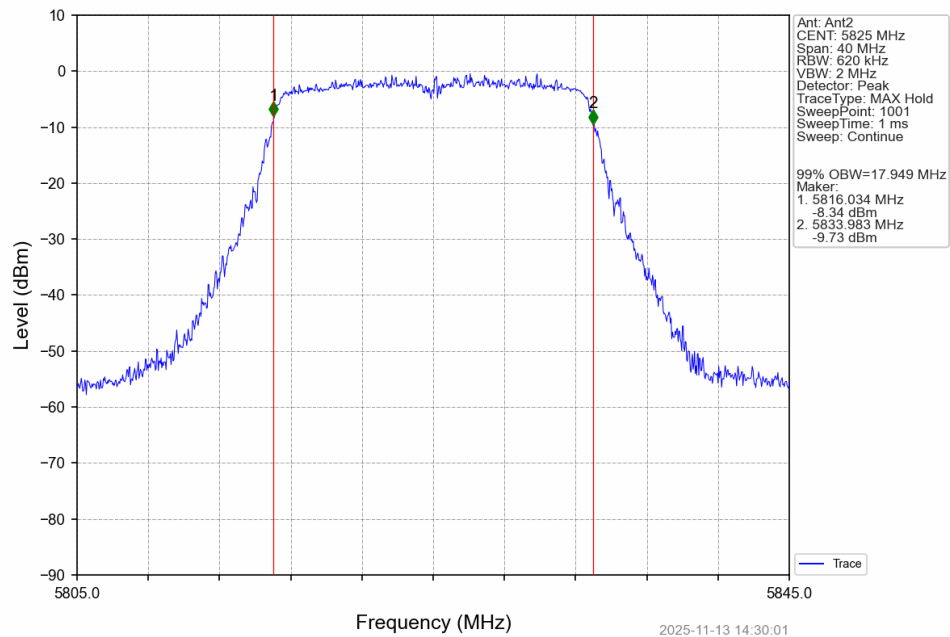
802.11n(HT20)_MCH_5785MHz_Ant2_NTN



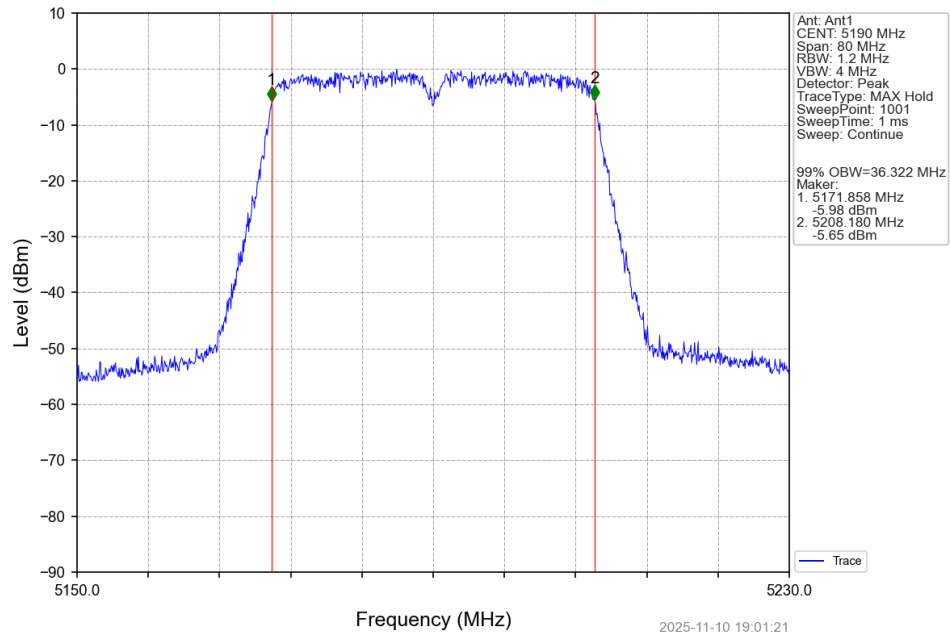
802.11n(HT20) HCH 5825MHz Ant1 NTN



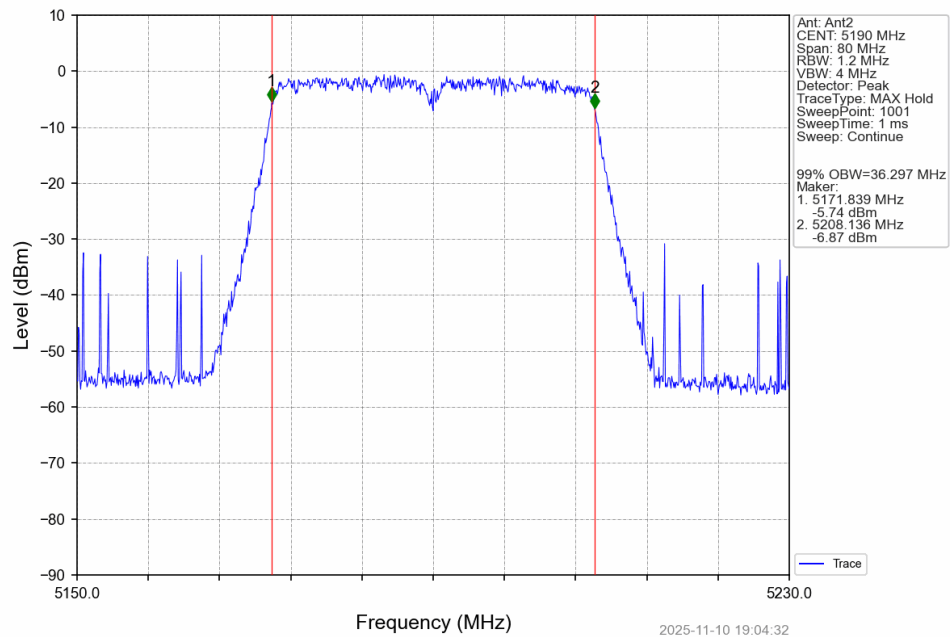
802.11n(HT20)_HCH_5825MHz_Ant2 NTN



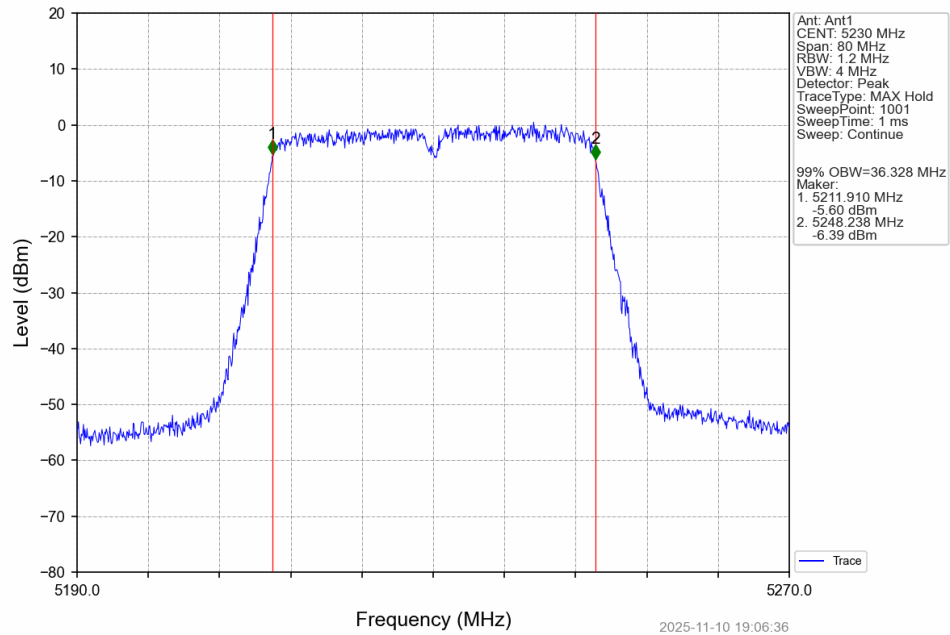
802.11n(HT40) LCH 5190MHz Ant1 NTN



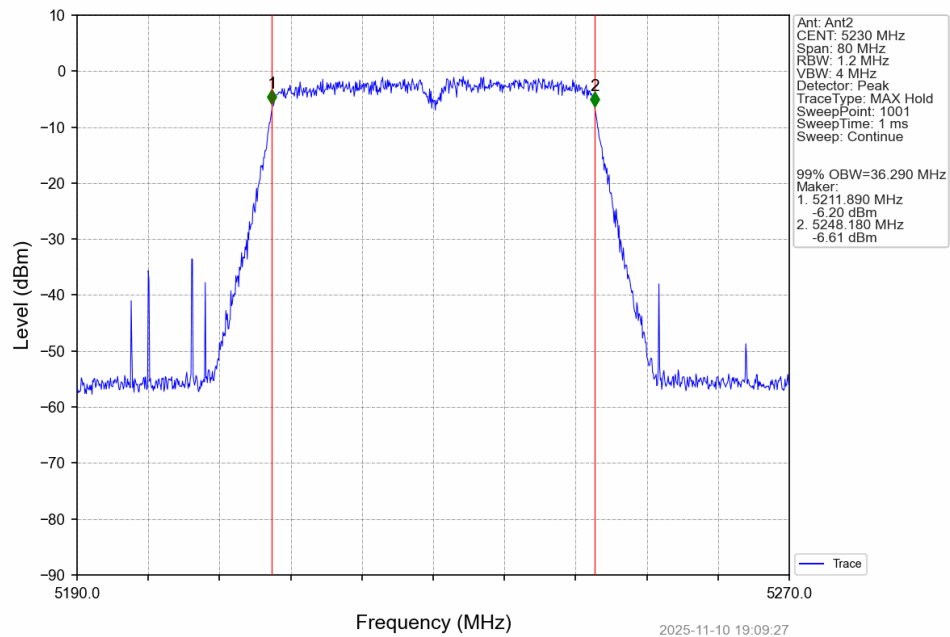
802.11n(HT40) LCH 5190MHz Ant2 NTN



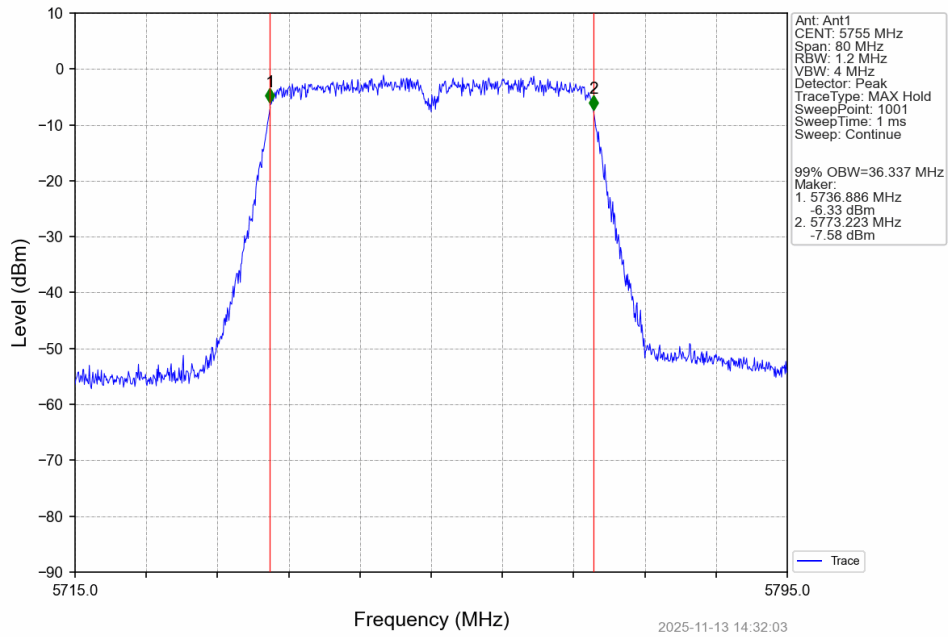
802.11n(HT40) HCH 5230MHz Ant1 NTN



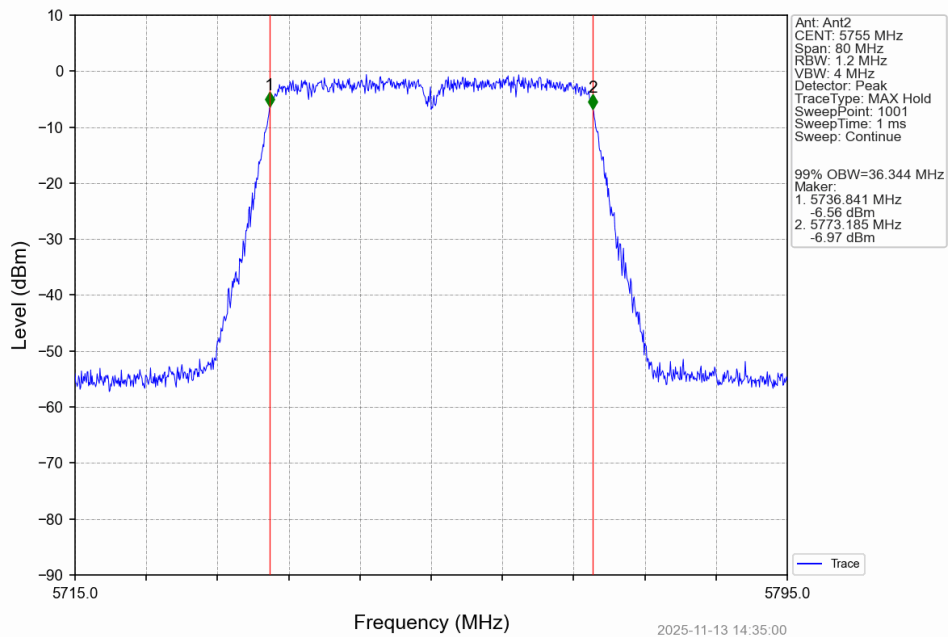
802.11n(HT40)_HCH_5230MHz_Ant2 NTN



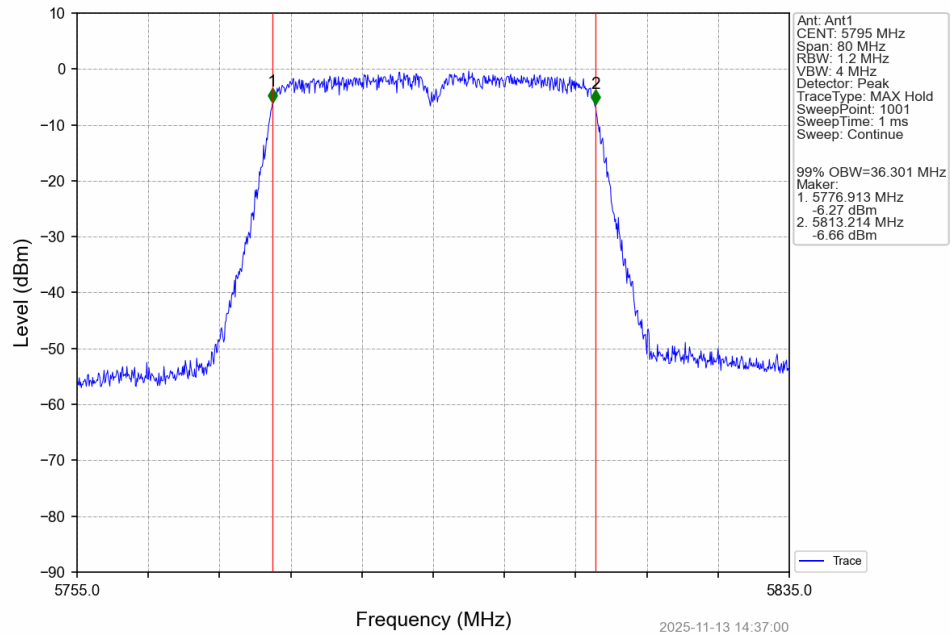
802.11n(HT40) LCH_5755MHz_Ant1_NTNV



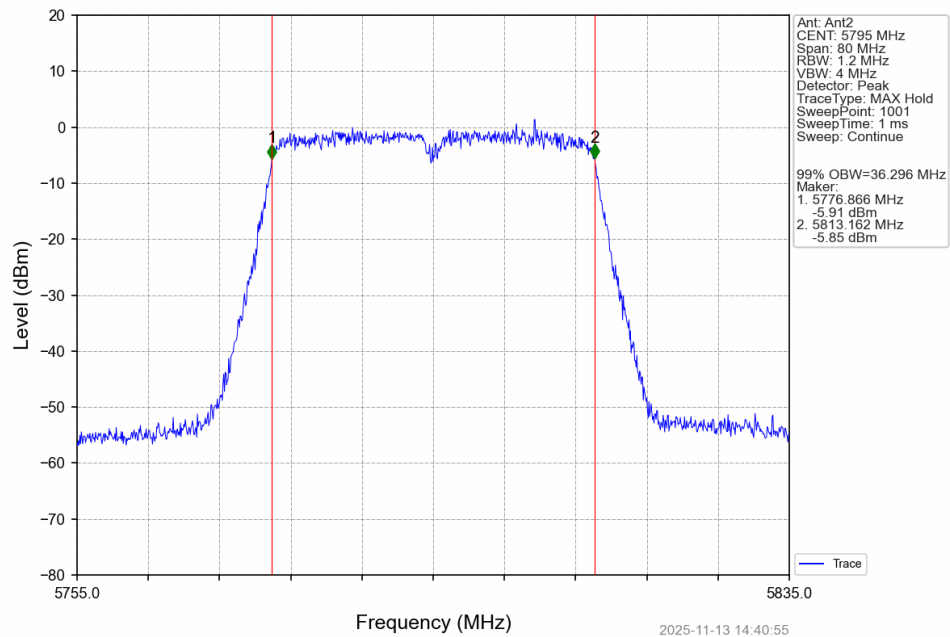
802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



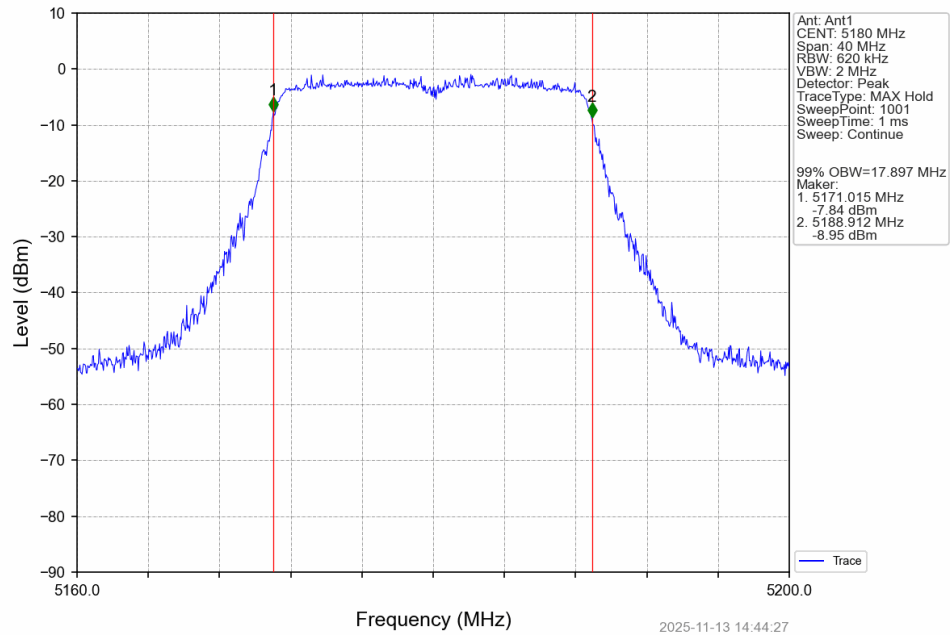
802.11n(HT40) HCH 5795MHz Ant1 NTN



802.11n(HT40)_HCH_5795MHz_Ant2 NTN



802.11ac(VHT20) LCH 5180MHz Ant1 NTN



802.11ac(VHT20) LCH 5180MHz Ant2 NTN

