

Appendix RF Test Data for 2.4GWIFI

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

EUT : XbotGo Falcon

FCC ID: : 2BG5Z-FCN

Model Number : FCN

Report No. : HTT202510797F01

Reviewed By : Heber He

1. Duty Cycle

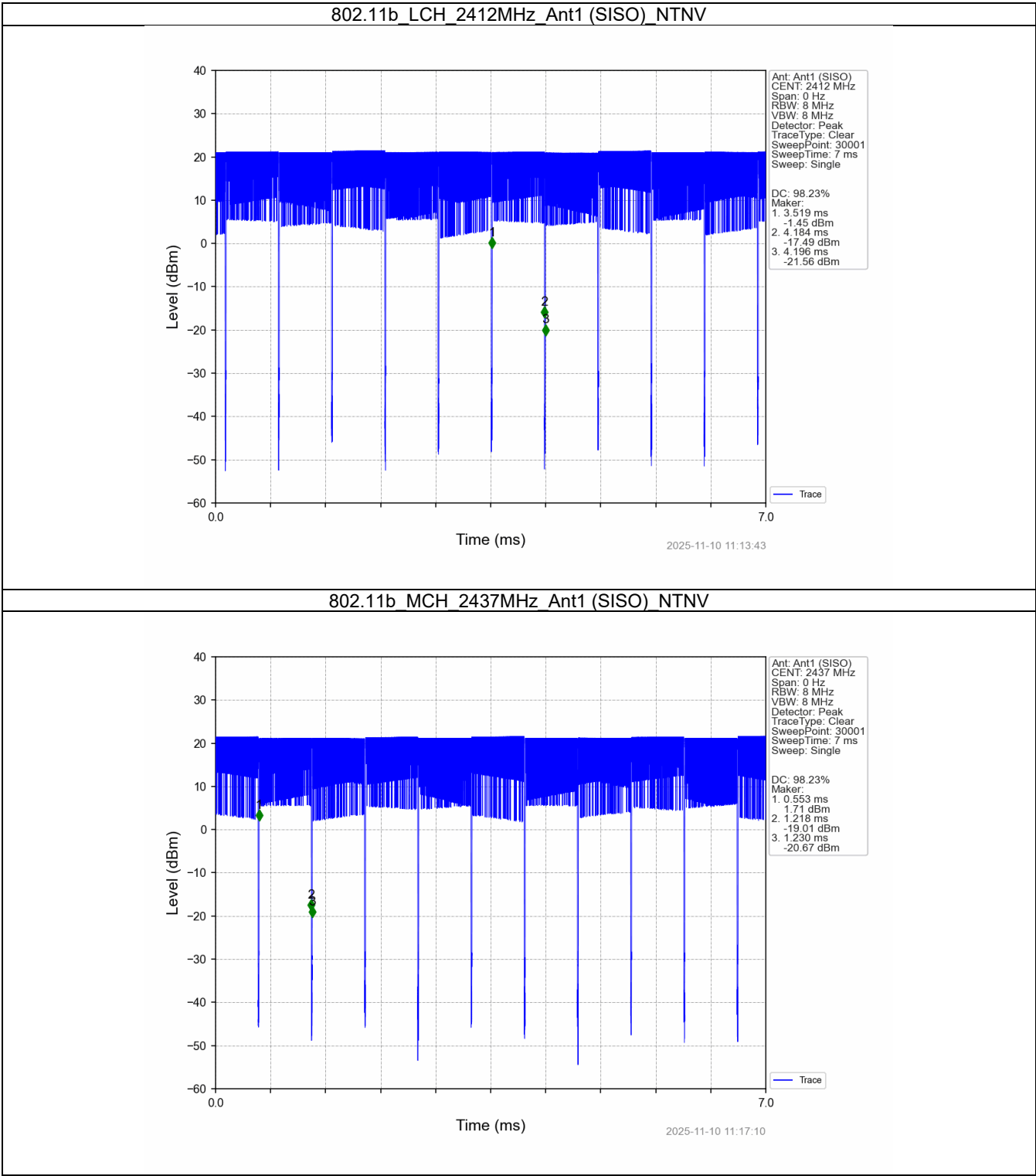
1.1 Test Result

1.1.1 Ant1

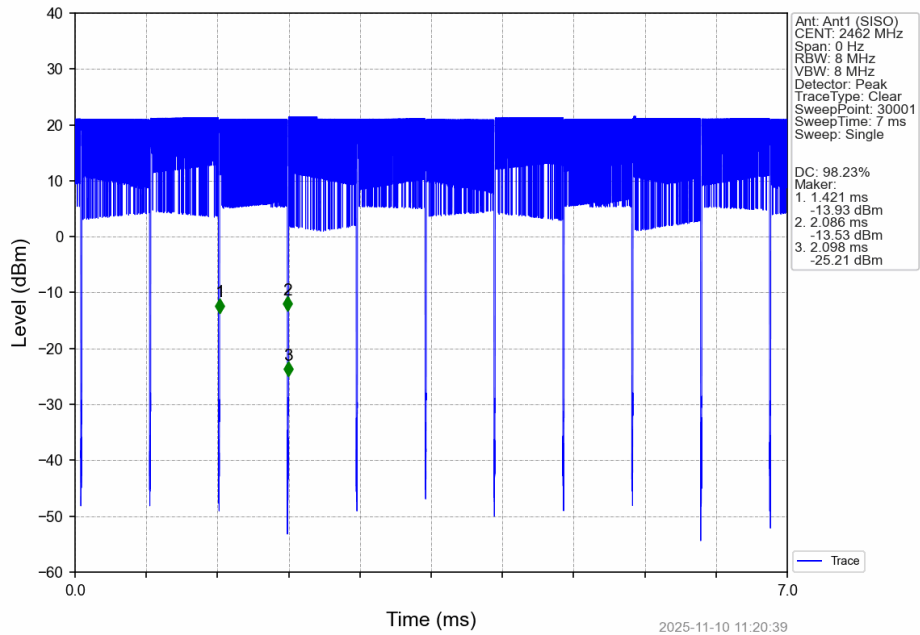
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	0.665	0.677	98.23	0.08	0.03
		2437	/	/	0.665	0.677	98.23	0.08	0.07
		2462	/	/	0.665	0.677	98.23	0.08	0.03
802.11g	SISO	2412	/	/	2.097	2.113	99.24	0.03	0.03
		2437	/	/	2.097	2.113	99.24	0.03	0.03
		2462	/	/	2.097	2.113	99.24	0.03	0.03
802.11n (HT20)	SISO	2412	/	/	5.428	5.445	99.69	0.01	0.03
		2437	/	/	5.428	5.445	99.69	0.01	0.03
		2462	/	/	5.428	5.445	99.69	0.01	0.03
802.11n (HT40)	SISO	2422	/	/	5.428	5.444	99.71	0.01	0.04
		2437	/	/	5.428	5.444	99.71	0.01	0.04
		2452	/	/	5.428	5.444	99.71	0.01	0.04
802.11ax (HEW20)	SISO	2412	SU	/	5.445	5.462	99.69	0.01	0.03
		2437	SU	/	5.444	5.460	99.71	0.01	0.00
		2462	SU	/	5.445	5.461	99.71	0.01	0.03
802.11ax (HEW40)	SISO	2422	SU	/	5.444	5.460	99.71	0.01	0.04
		2437	SU	/	5.445	5.462	99.69	0.01	0.03
		2452	SU	/	5.444	5.460	99.71	0.01	0.04

1.2 Test Graph

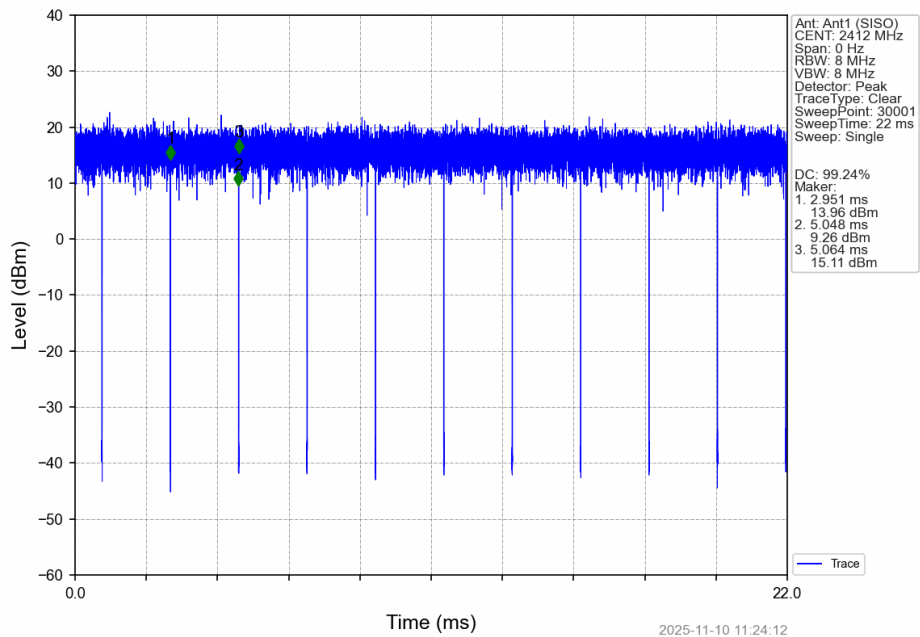
1.2.1 Ant1



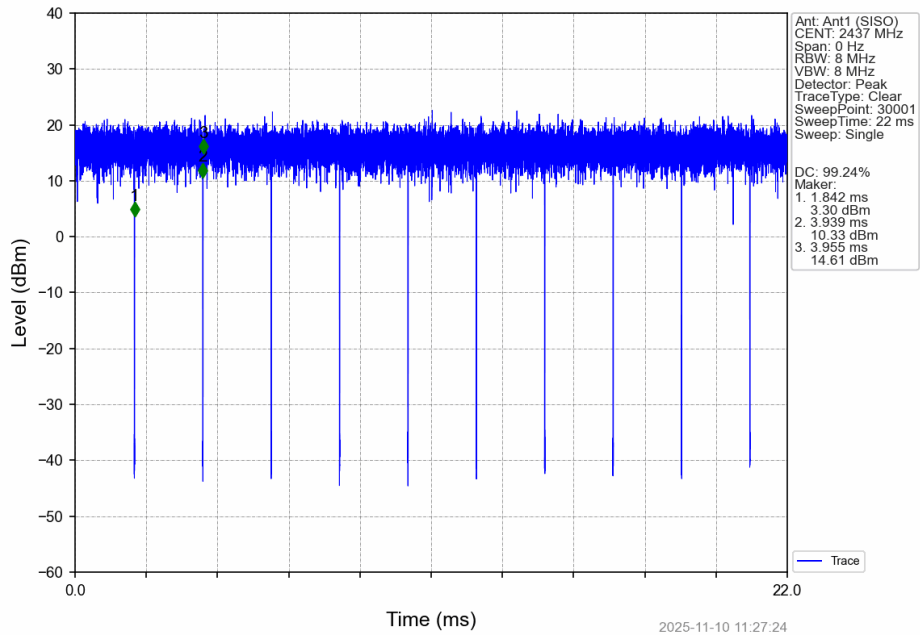
802.11b HCH 2462MHz Ant1 (SISO) NTN



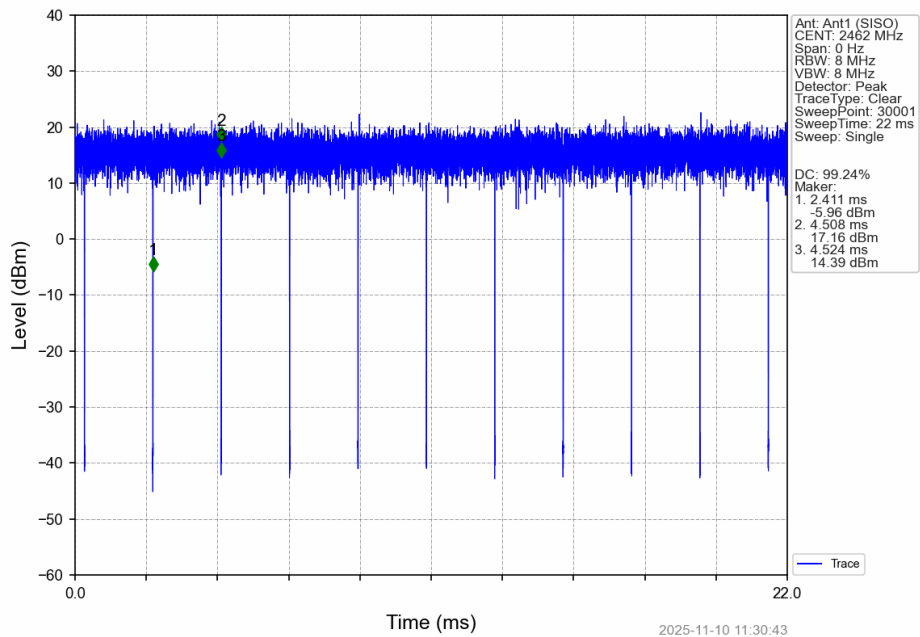
802.11g LCH 2412MHz Ant1 (SISO) NTN



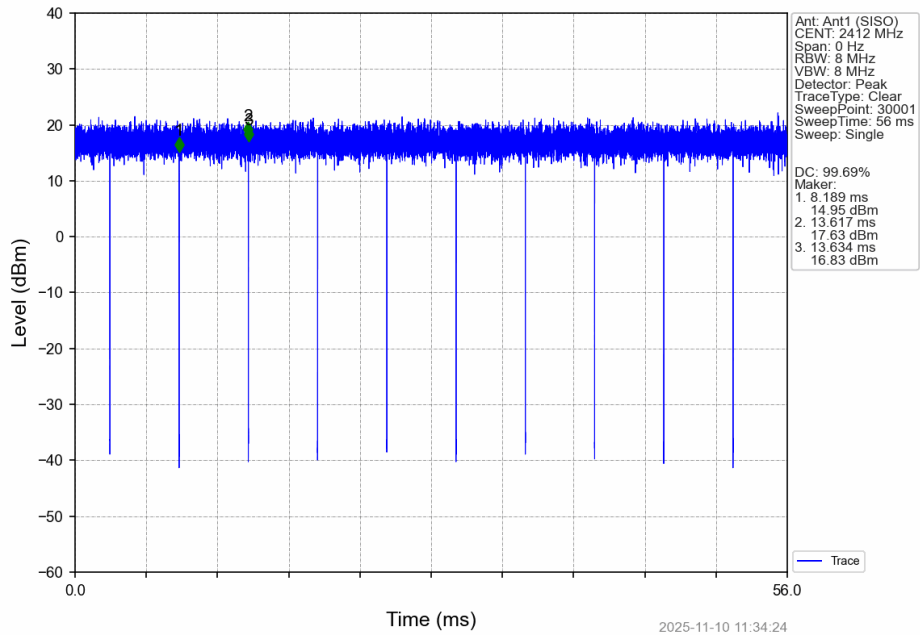
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



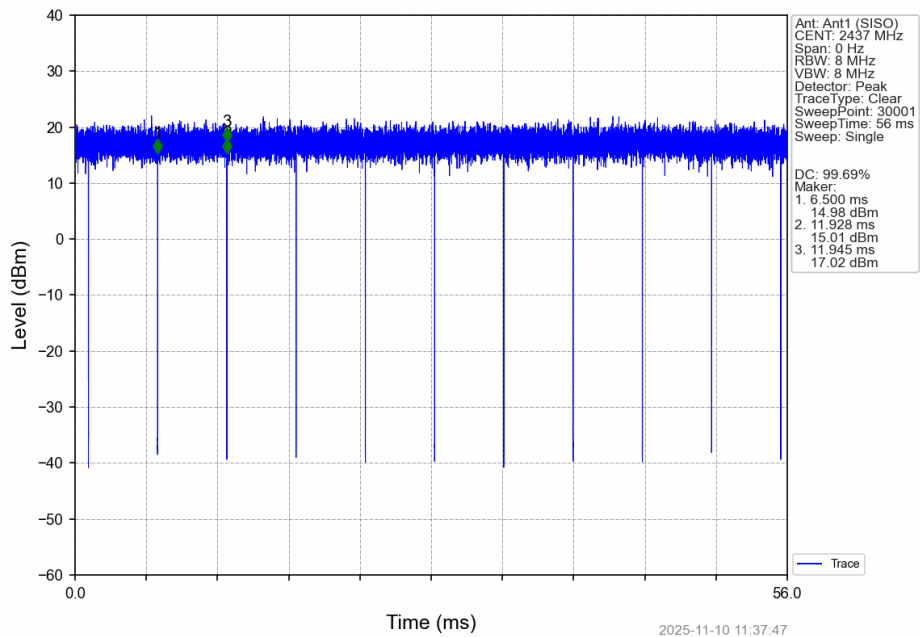
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



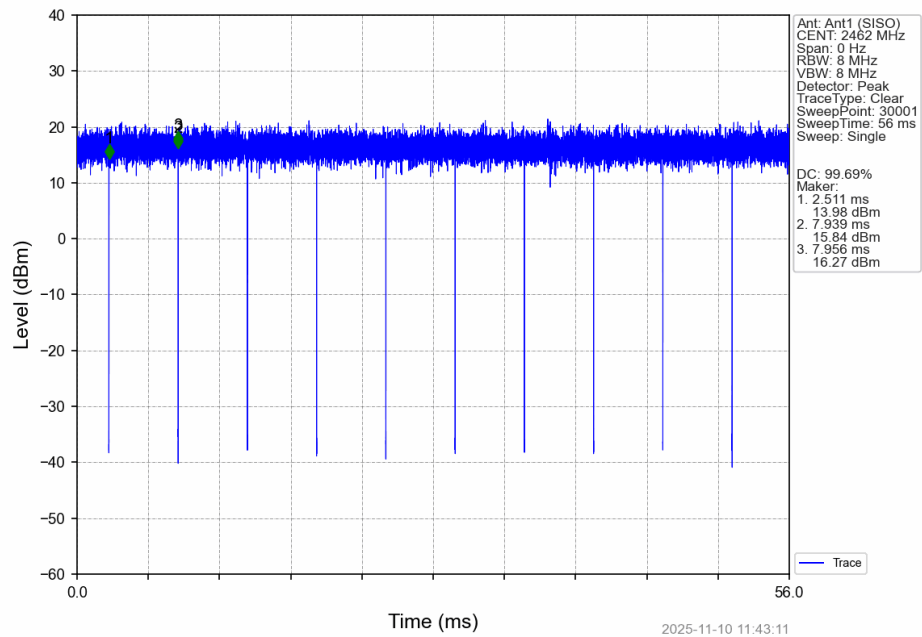
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



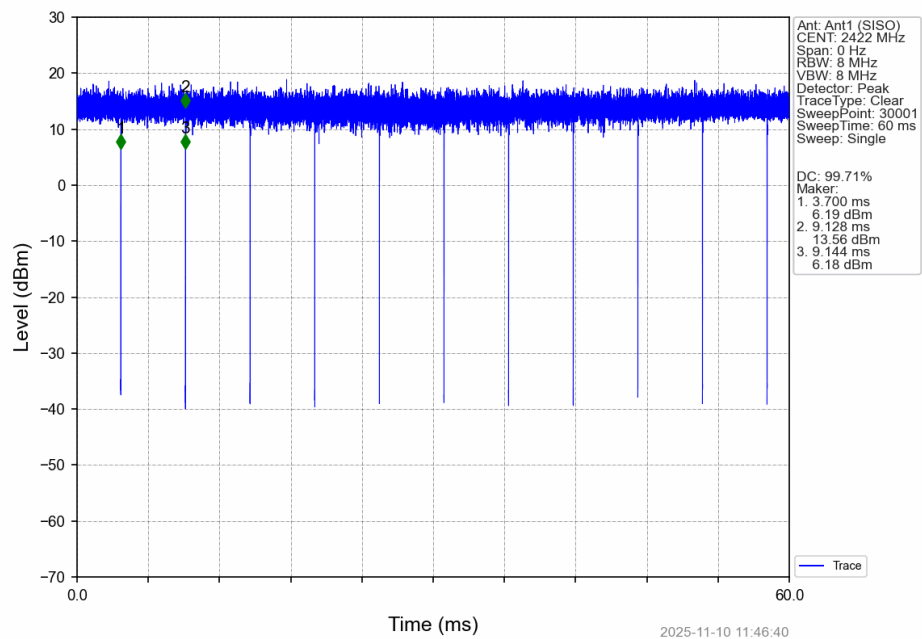
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



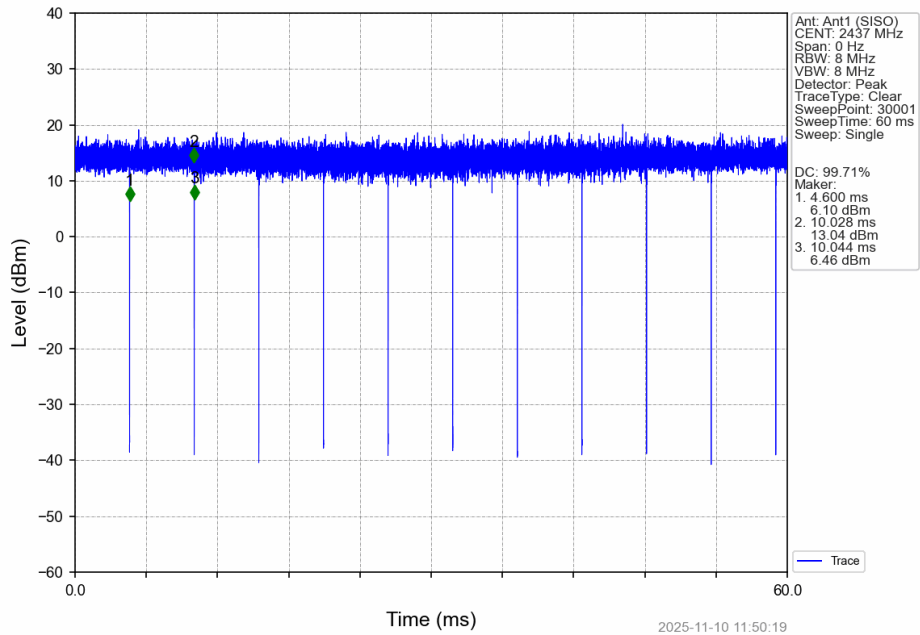
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



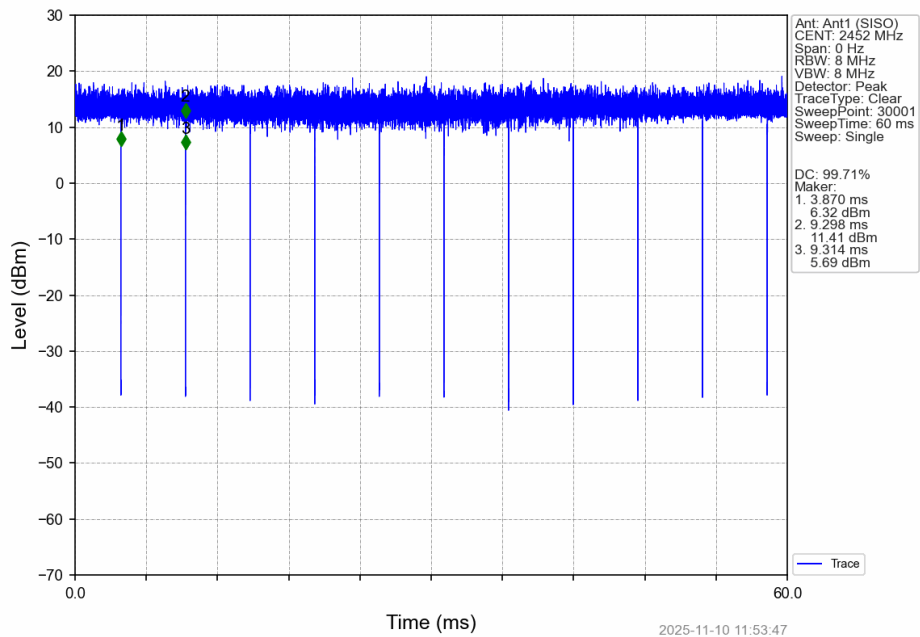
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



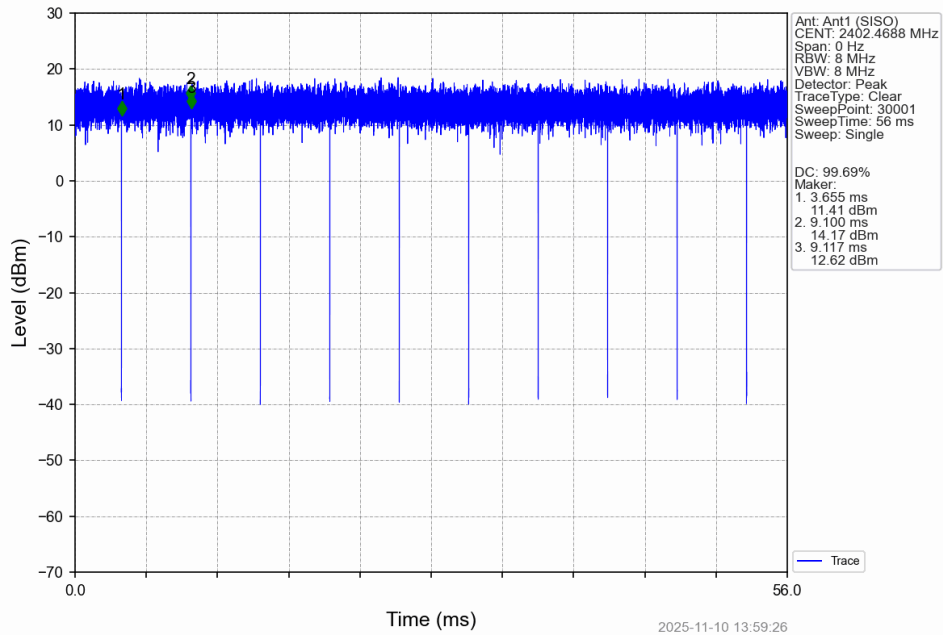
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



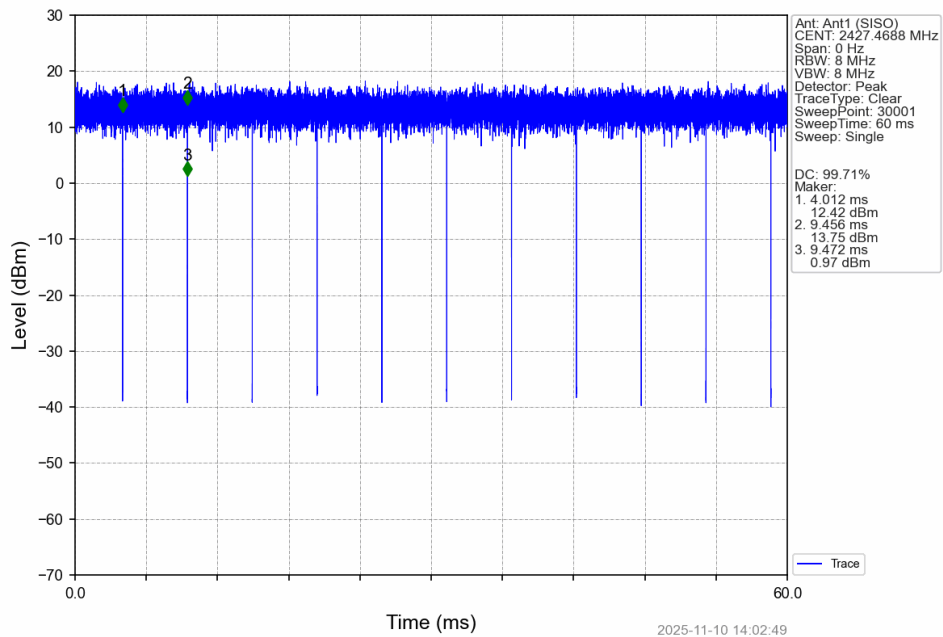
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



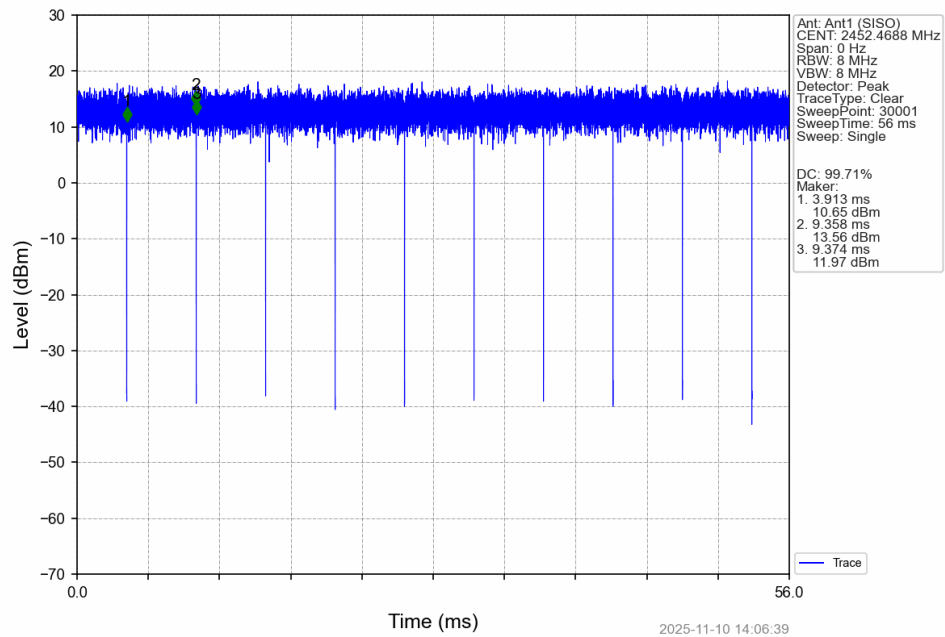
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTN



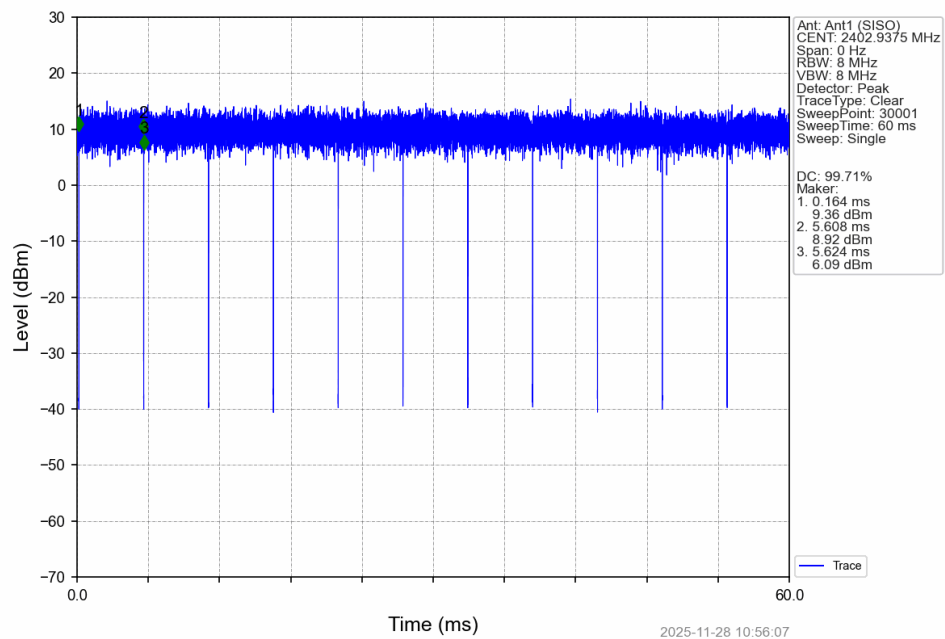
802.11ax(HEW20)_MCH_2437MHz_SU / Ant1 (SISO) NTN



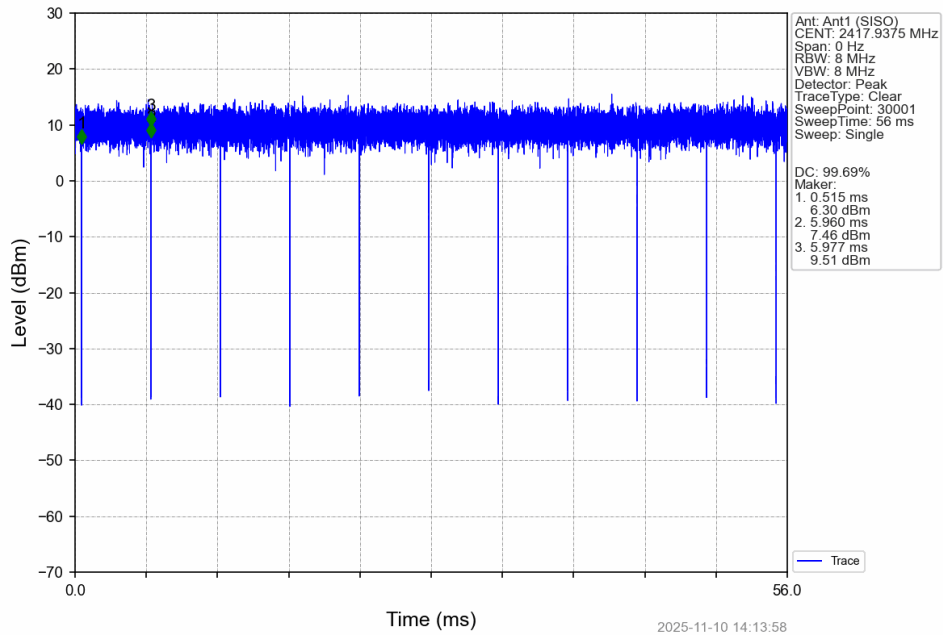
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



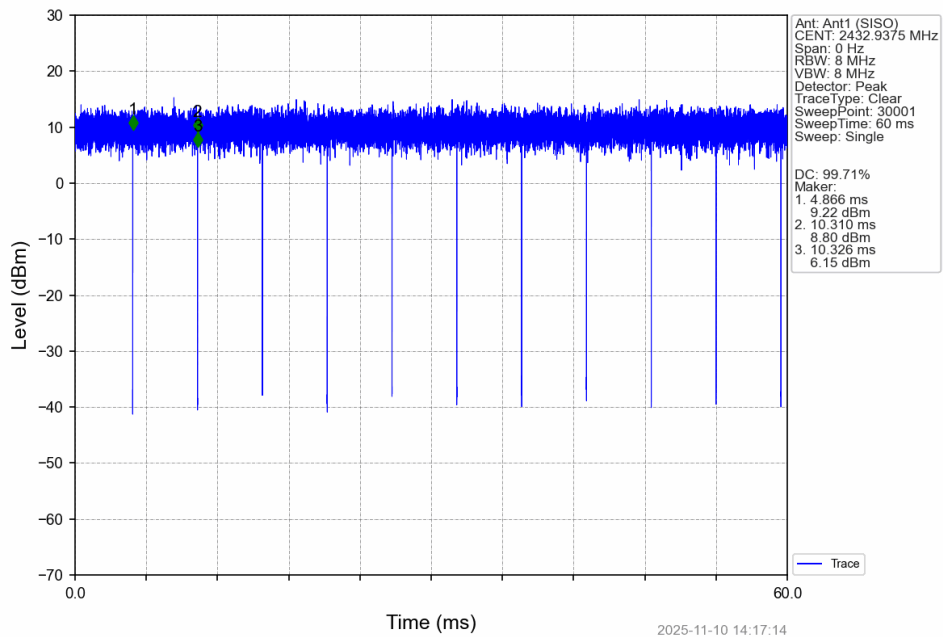
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTN



802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

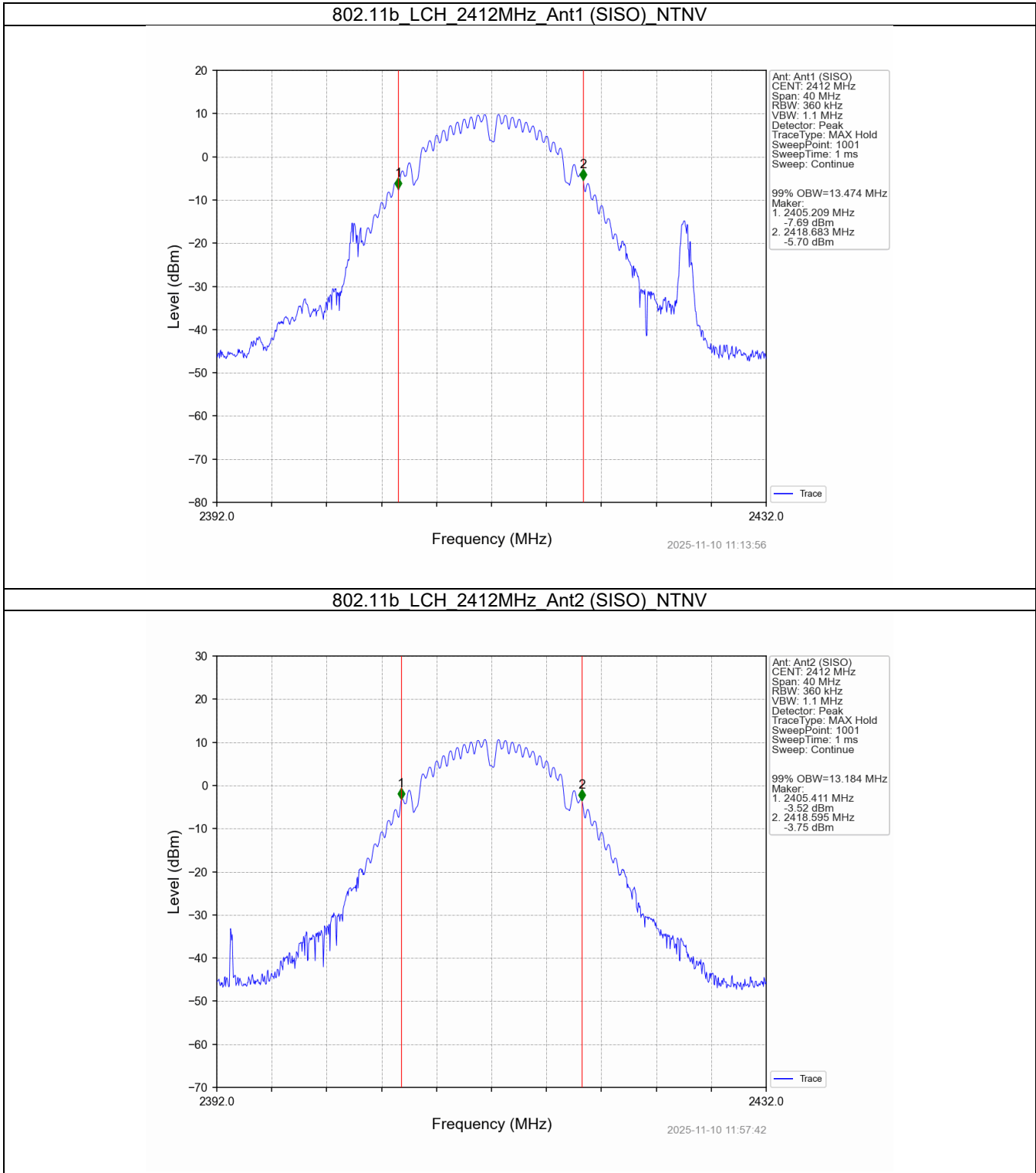
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.474	/	Pass
			2	13.184	/	Pass
		2437	1	13.334	/	Pass
			2	13.194	/	Pass
		2462	1	13.368	/	Pass
			2	13.257	/	Pass
802.11g	SISO	2412	1	17.075	/	Pass
			2	16.874	/	Pass
		2437	1	17.013	/	Pass
			2	16.901	/	Pass
		2462	1	16.984	/	Pass
			2	16.973	/	Pass
802.11n (HT20)	SISO	2412	1	18.078	/	Pass
			2	17.945	/	Pass
		2437	1	18.057	/	Pass
			2	17.968	/	Pass
		2462	1	18.044	/	Pass
			2	17.985	/	Pass
802.11n (HT40)	SISO	2422	1	36.401	/	Pass
			2	36.299	/	Pass
		2437	1	36.360	/	Pass
			2	36.283	/	Pass
		2452	1	36.329	/	Pass
			2	36.274	/	Pass
802.11ax (HEW20)	SISO	2412	1	19.183	/	Pass
			2	19.108	/	Pass
		2437	1	19.153	/	Pass
			2	19.110	/	Pass
		2462	1	19.148	/	Pass
			2	19.166	/	Pass
802.11ax (HEW40)	SISO	2422	1	38.196	/	Pass
			2	38.072	/	Pass
		2437	1	38.143	/	Pass
			2	38.086	/	Pass
		2452	1	38.024	/	Pass
			2	38.046	/	Pass

2.1.2 6dB BW

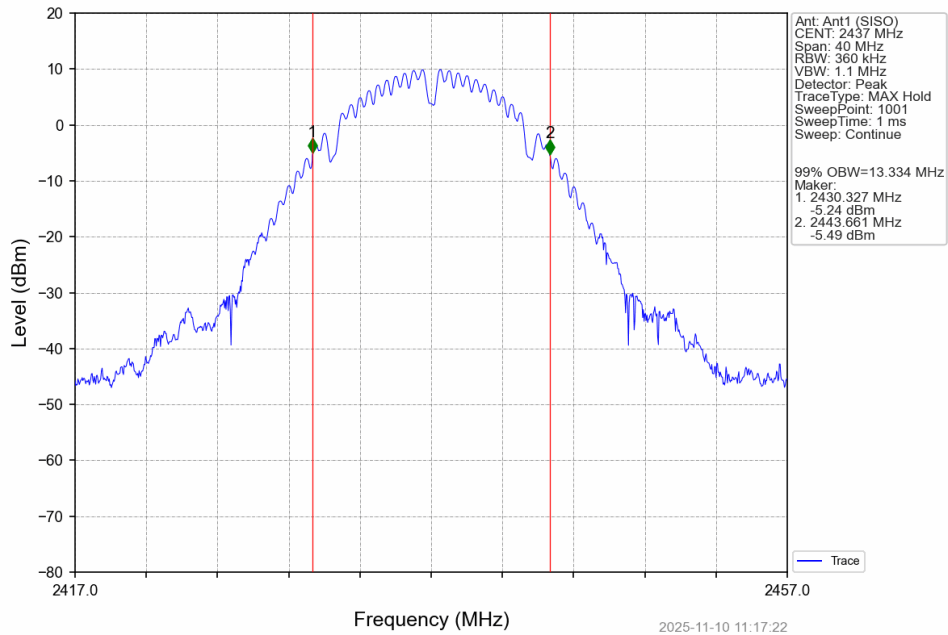
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.253	≥ 0.5	Pass
			2	8.245	≥ 0.5	Pass
		2437	1	8.250	≥ 0.5	Pass
			2	8.247	≥ 0.5	Pass
		2462	1	8.256	≥ 0.5	Pass
			2	8.255	≥ 0.5	Pass
802.11g	SISO	2412	1	16.017	≥ 0.5	Pass
			2	16.199	≥ 0.5	Pass
		2437	1	16.046	≥ 0.5	Pass
			2	16.296	≥ 0.5	Pass
		2462	1	16.319	≥ 0.5	Pass
			2	16.208	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.482	≥ 0.5	Pass
			2	17.423	≥ 0.5	Pass
		2437	1	17.242	≥ 0.5	Pass
			2	17.454	≥ 0.5	Pass
		2462	1	17.306	≥ 0.5	Pass
			2	17.375	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.359	≥ 0.5	Pass
			2	36.324	≥ 0.5	Pass
		2437	1	36.234	≥ 0.5	Pass
			2	36.292	≥ 0.5	Pass
		2452	1	36.039	≥ 0.5	Pass
			2	36.247	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	1	18.957	≥ 0.5	Pass
			2	18.957	≥ 0.5	Pass
		2437	1	18.992	≥ 0.5	Pass
			2	18.999	≥ 0.5	Pass
		2462	1	19.070	≥ 0.5	Pass
			2	18.980	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	1	37.572	≥ 0.5	Pass
			2	37.913	≥ 0.5	Pass
		2437	1	37.938	≥ 0.5	Pass
			2	38.039	≥ 0.5	Pass
		2452	1	37.735	≥ 0.5	Pass
			2	37.436	≥ 0.5	Pass

2.2 Test Graph

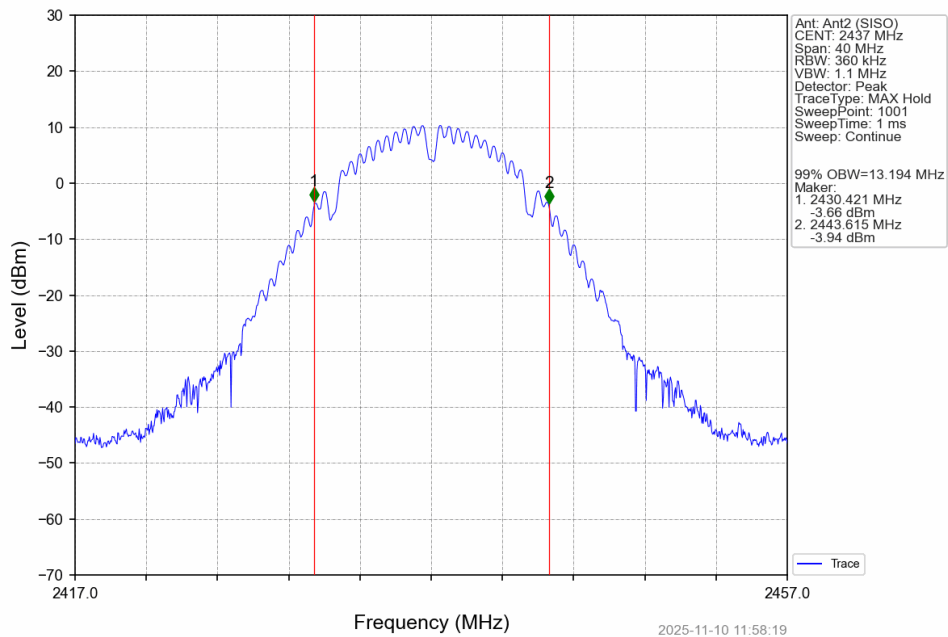
2.2.1 OBW



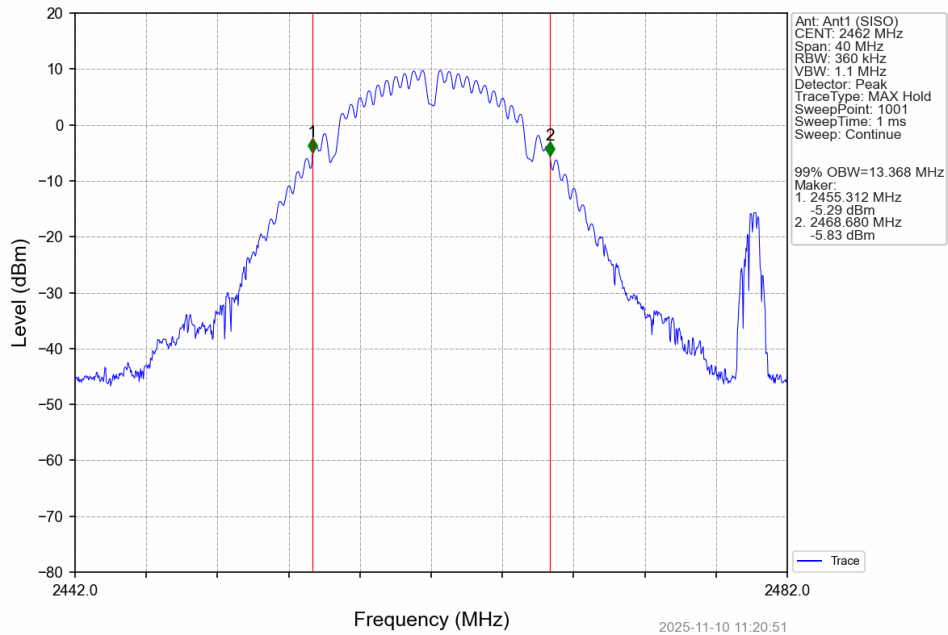
802.11b MCH 2437MHz Ant1 (SISO) NTN



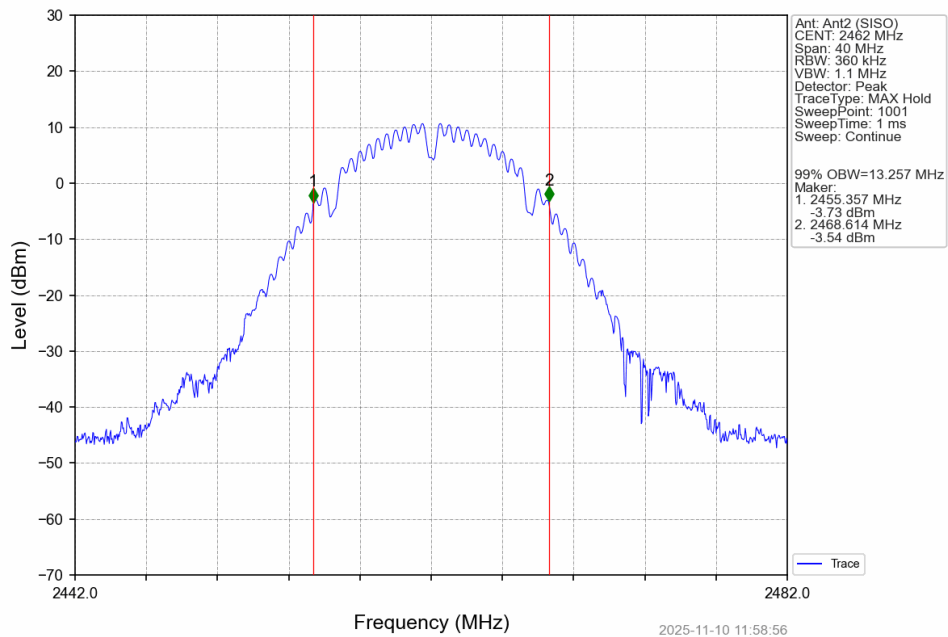
802.11b MCH 2437MHz Ant2 (SISO) NTN



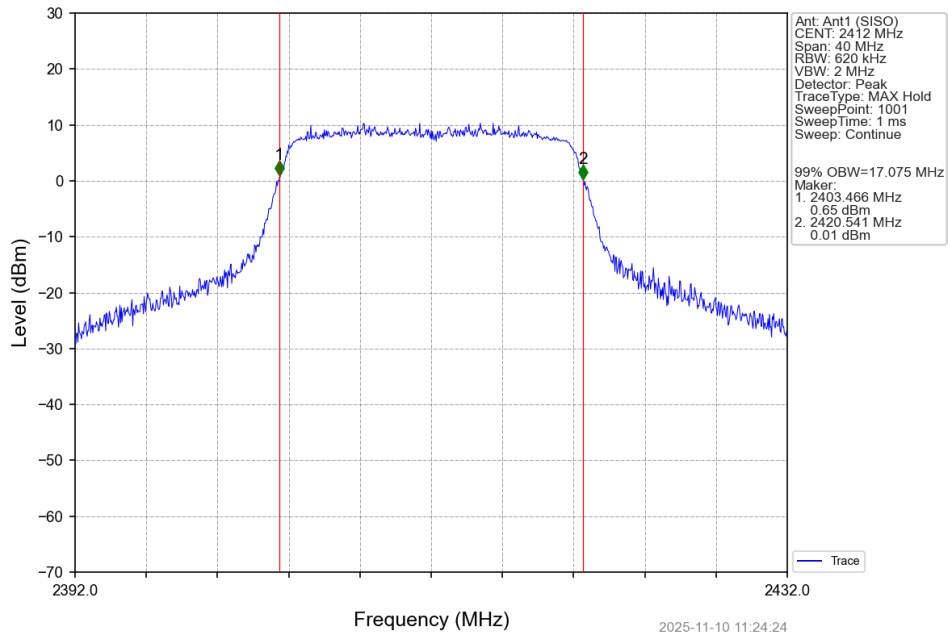
802.11b HCH 2462MHz Ant1 (SISO) NTN



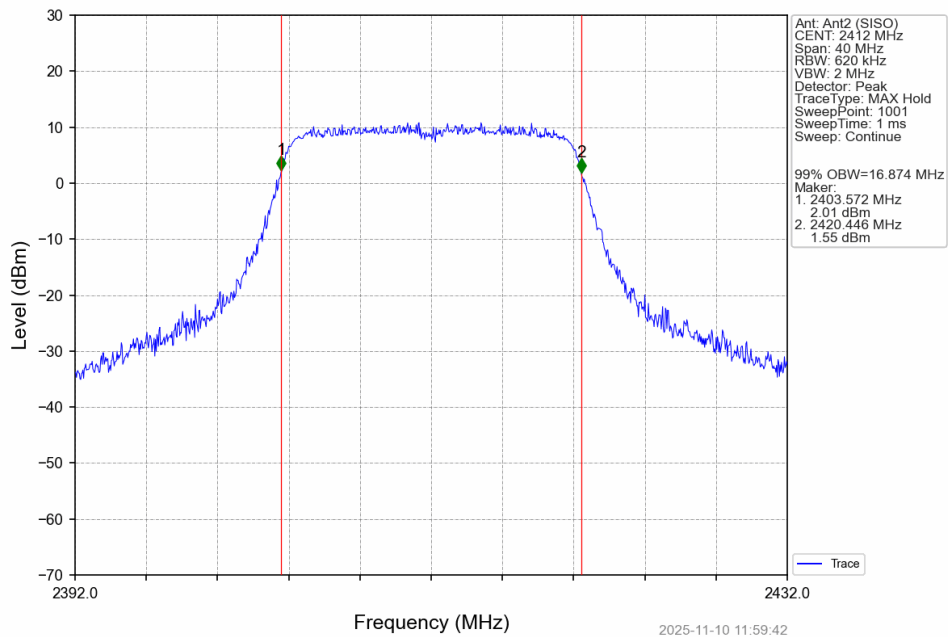
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



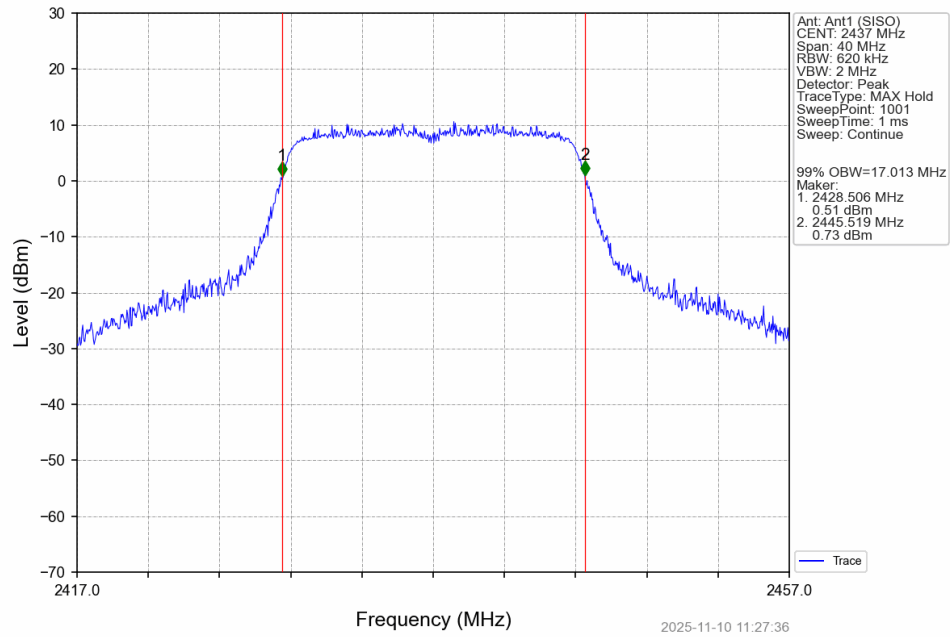
802.11g LCH 2412MHz Ant1 (SISO) NTN



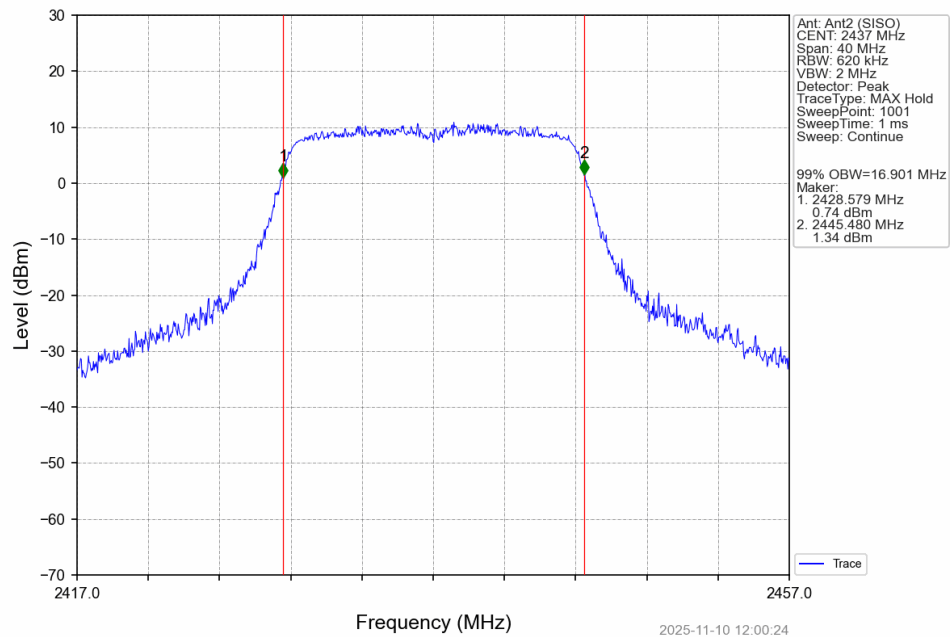
802.11g LCH 2412MHz Ant2 (SISO) NTN



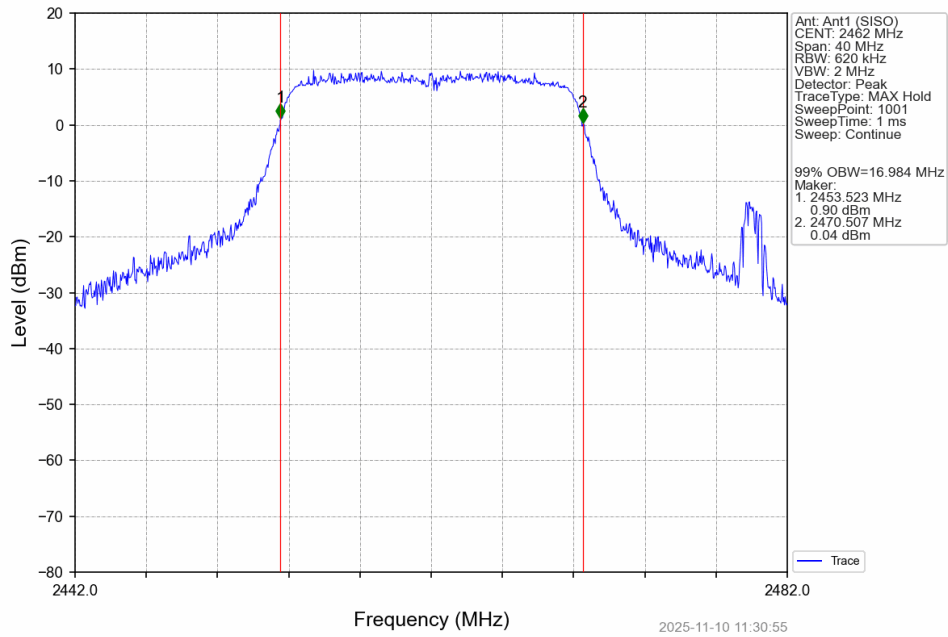
802.11g MCH 2437MHz Ant1 (SISO) NTN



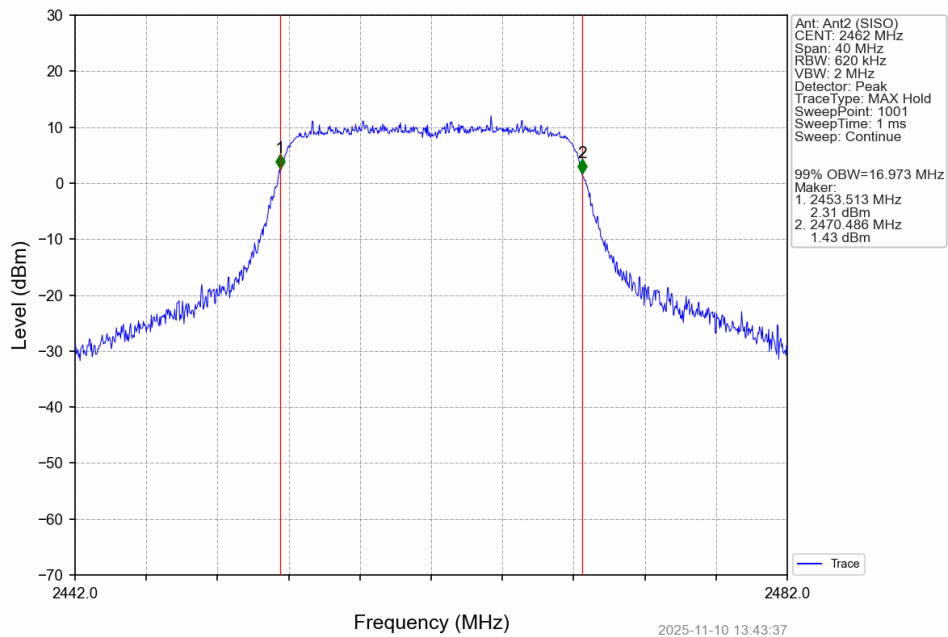
802.11g MCH 2437MHz Ant2 (SISO) NTN



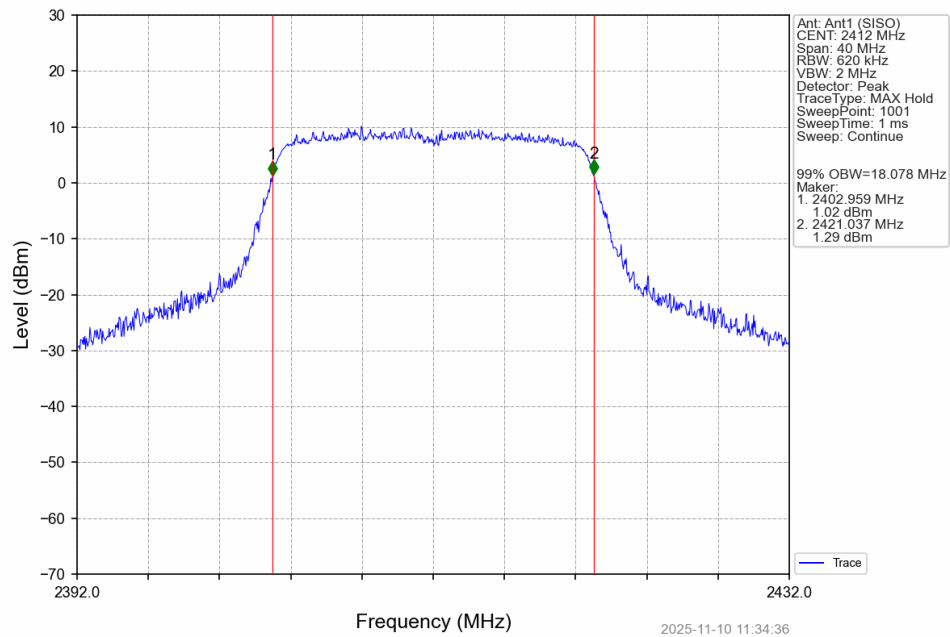
802.11g HCH 2462MHz Ant1 (SISO) NTN



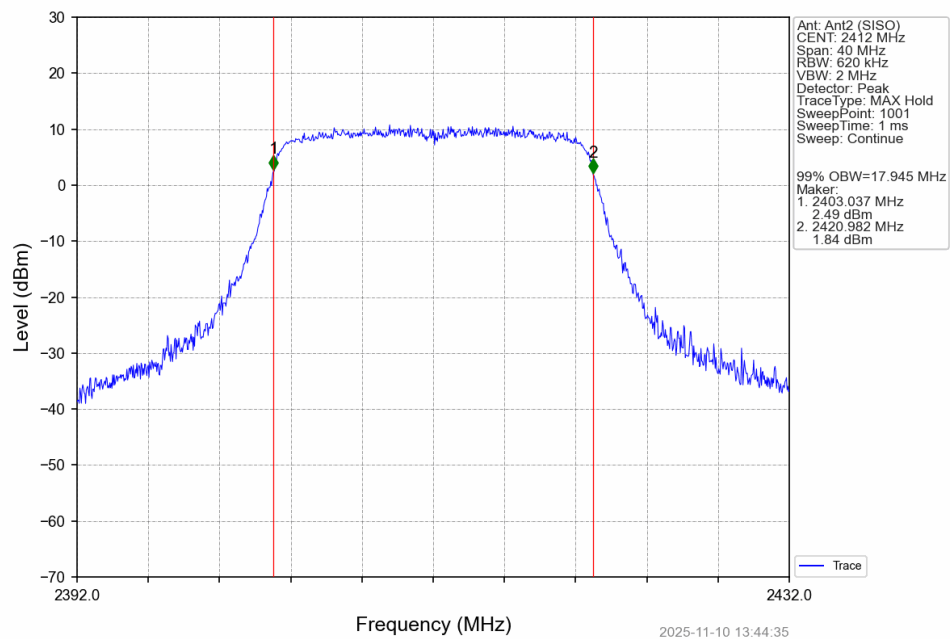
802.11g HCH 2462MHz Ant2 (SISO) NTN



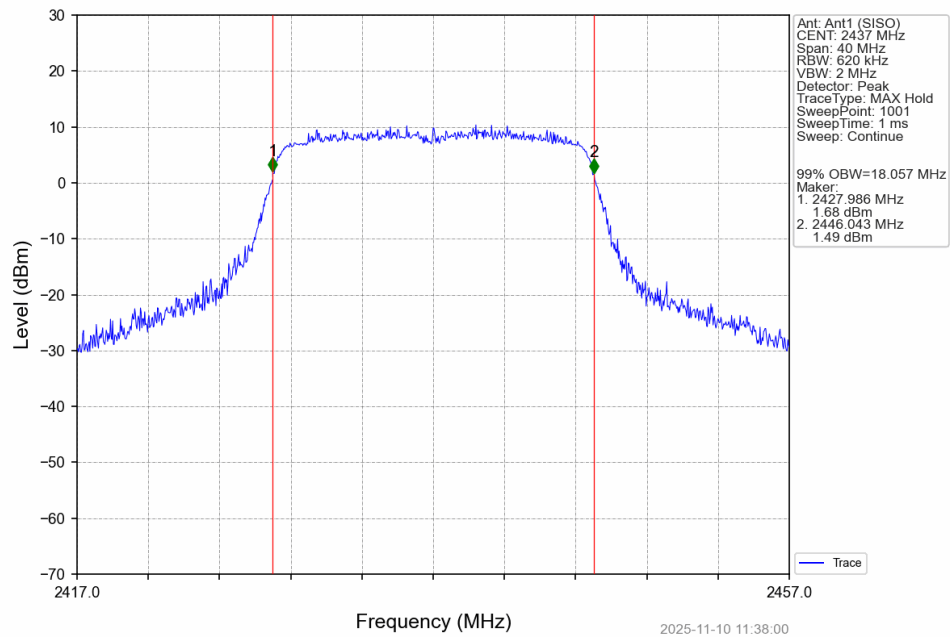
802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTN



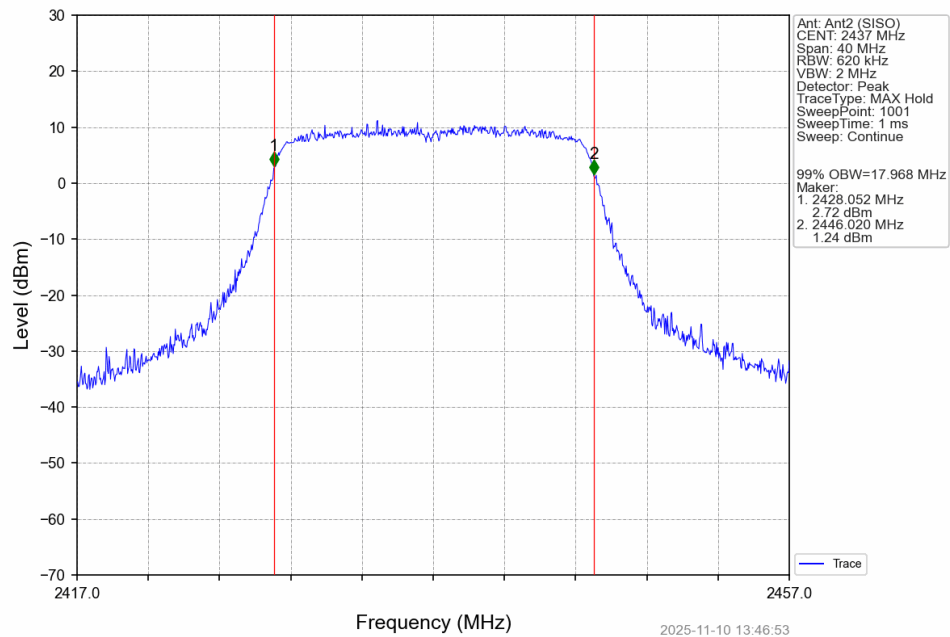
802.11n(HT20) LCH_2412MHz_Ant2 (SISO) NTN



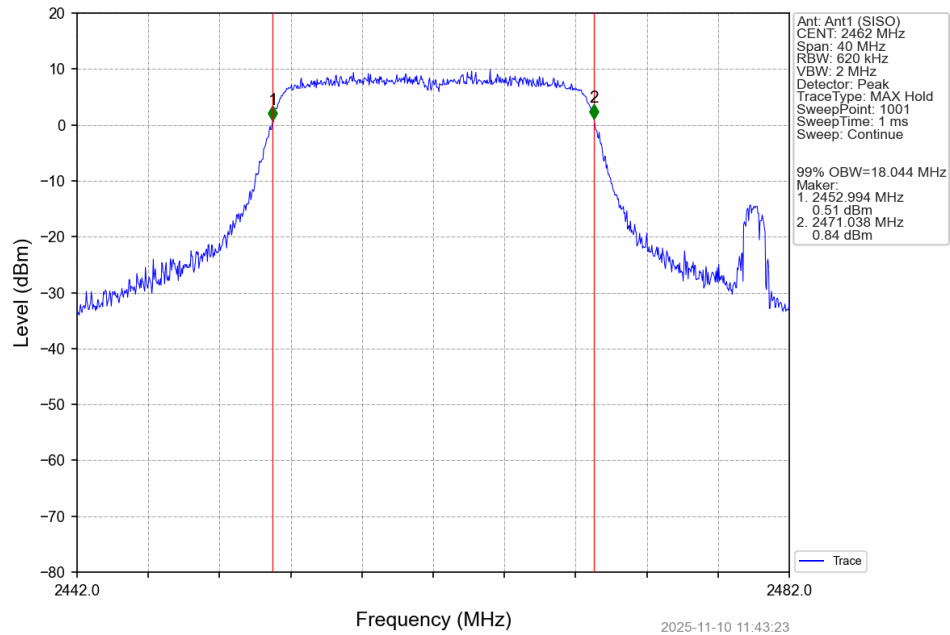
802.11n(HT20) MCH_2437MHz Ant1 (SISO) NTNV



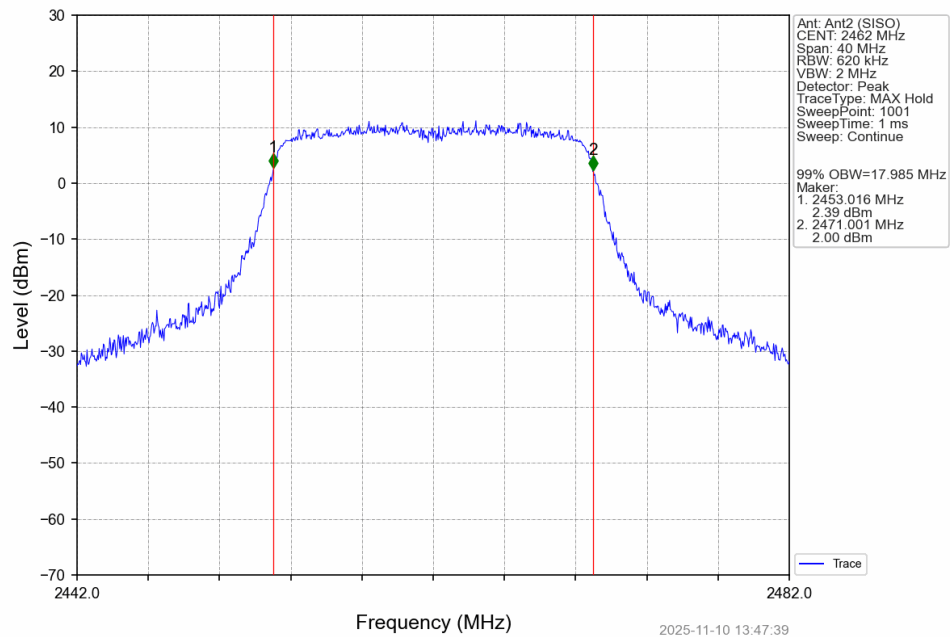
802.11n(HT20) MCH_2437MHz Ant2 (SISO) NTNV



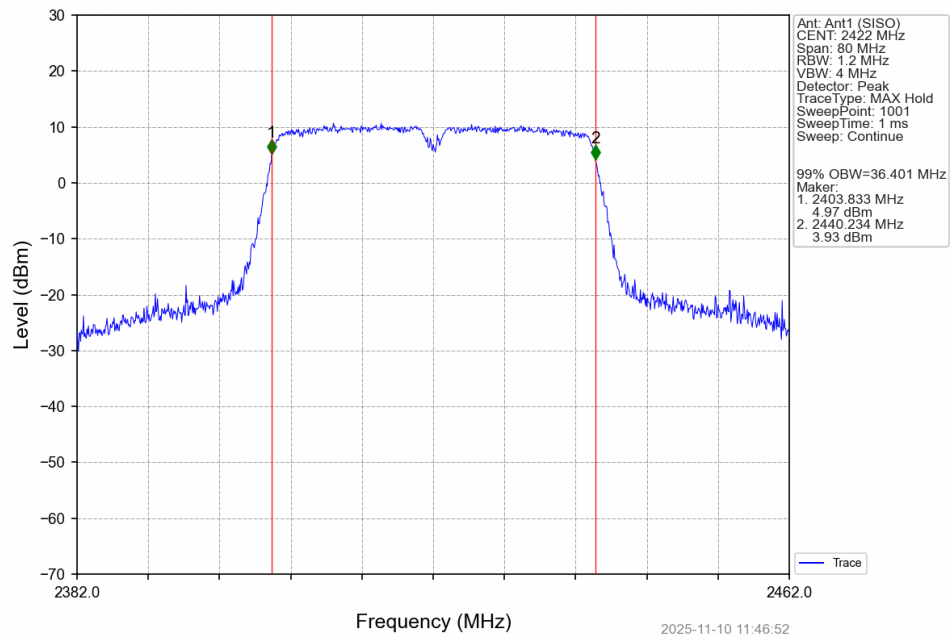
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



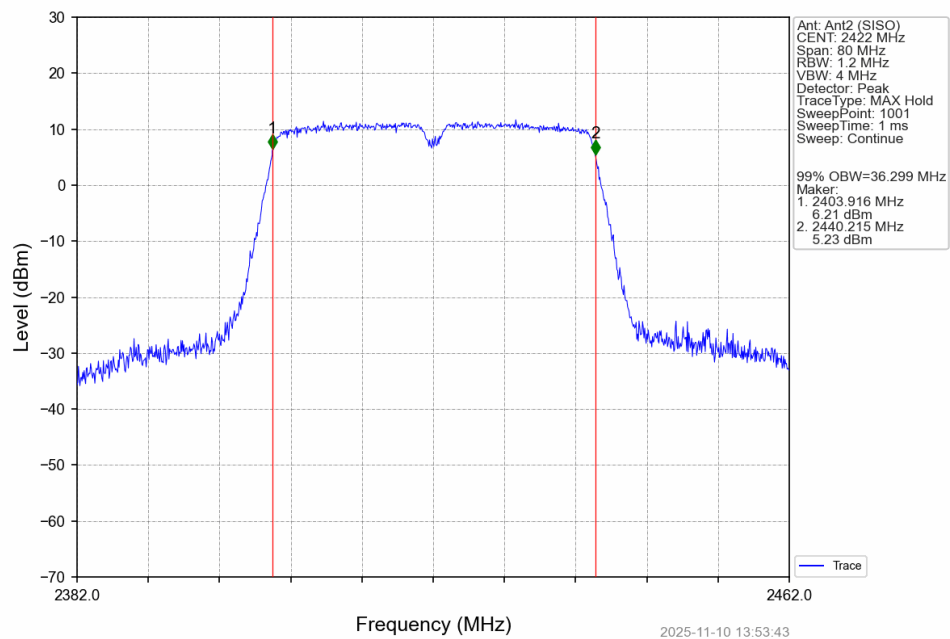
802.11n(HT20) HCH 2462MHz Ant2 (SISO) NTNV



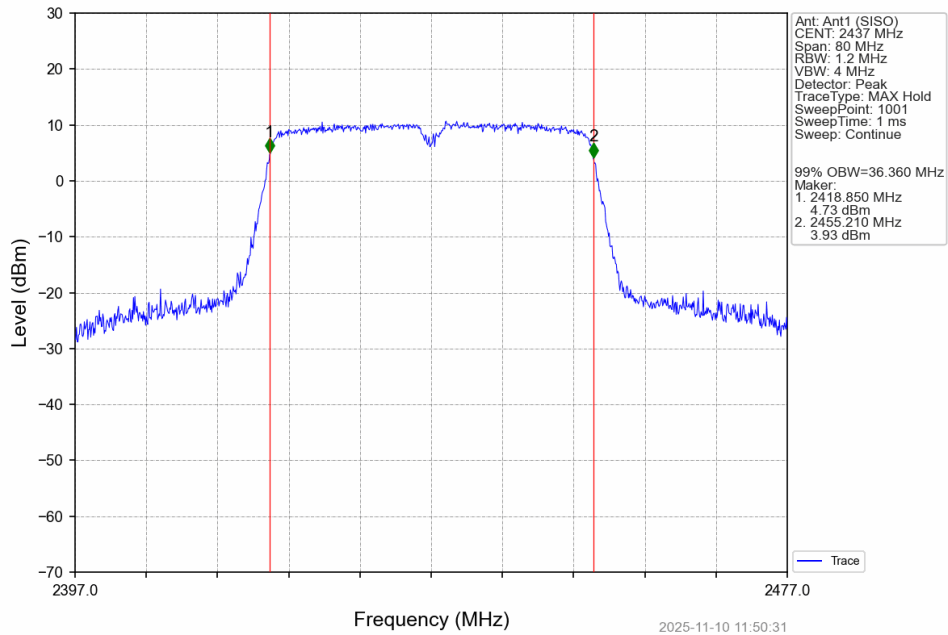
802.11n(HT40) LCH_2422MHz_Ant1 (SISO) NTN



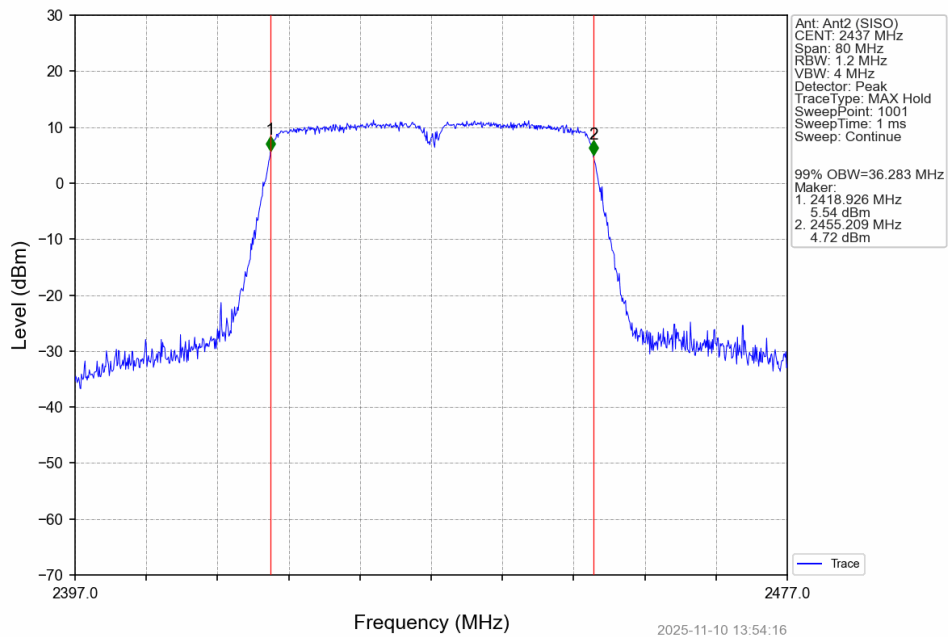
802.11n(HT40) LCH_2422MHz_Ant2 (SISO) NTN



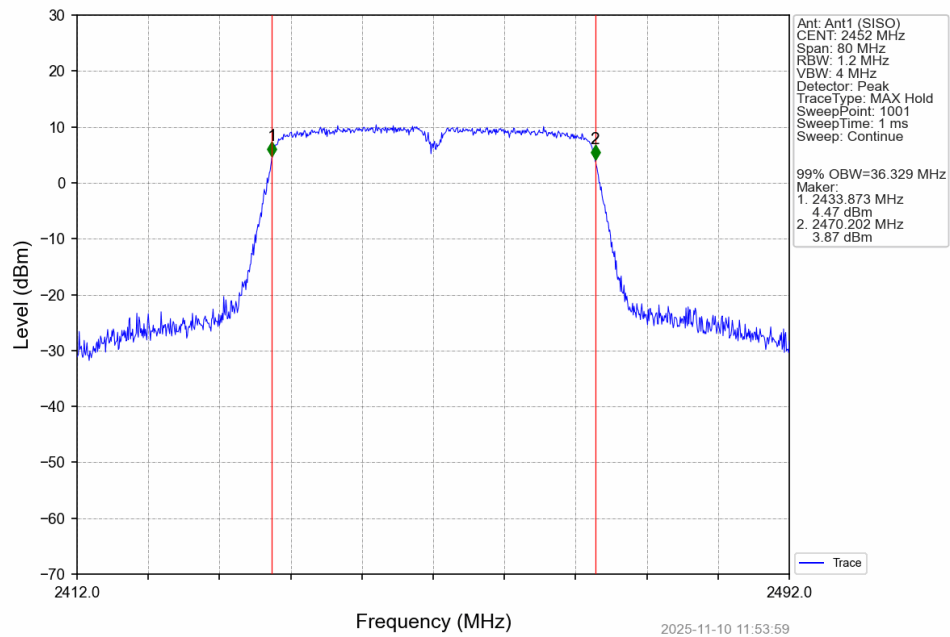
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



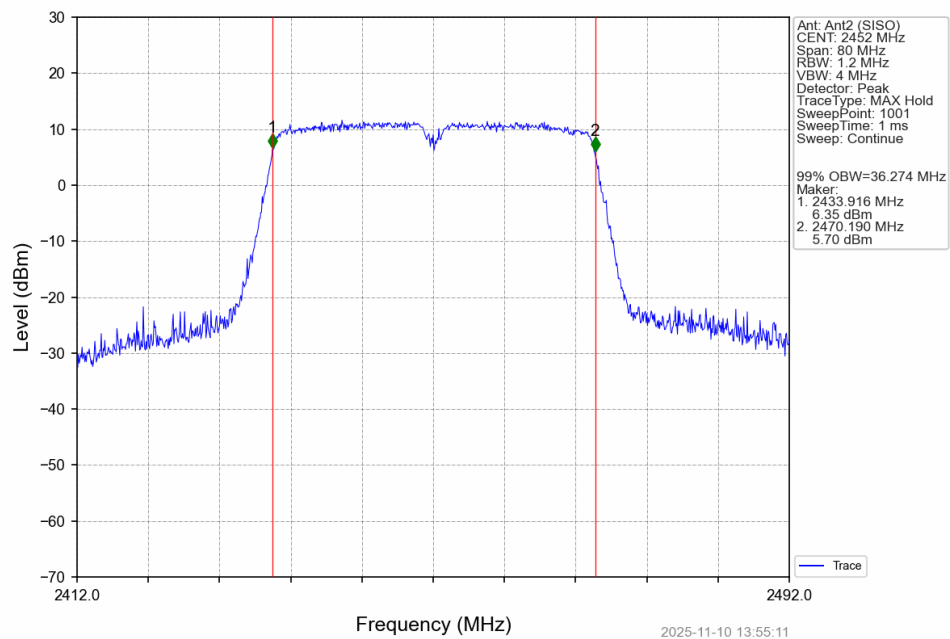
802.11n(HT40) MCH_2437MHz_Ant2 (SISO) NTN



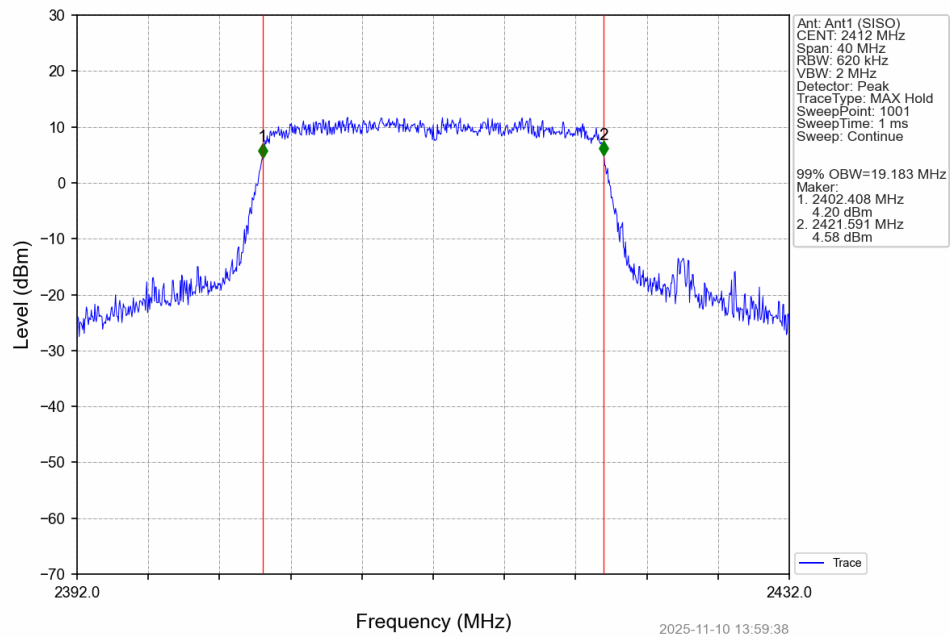
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



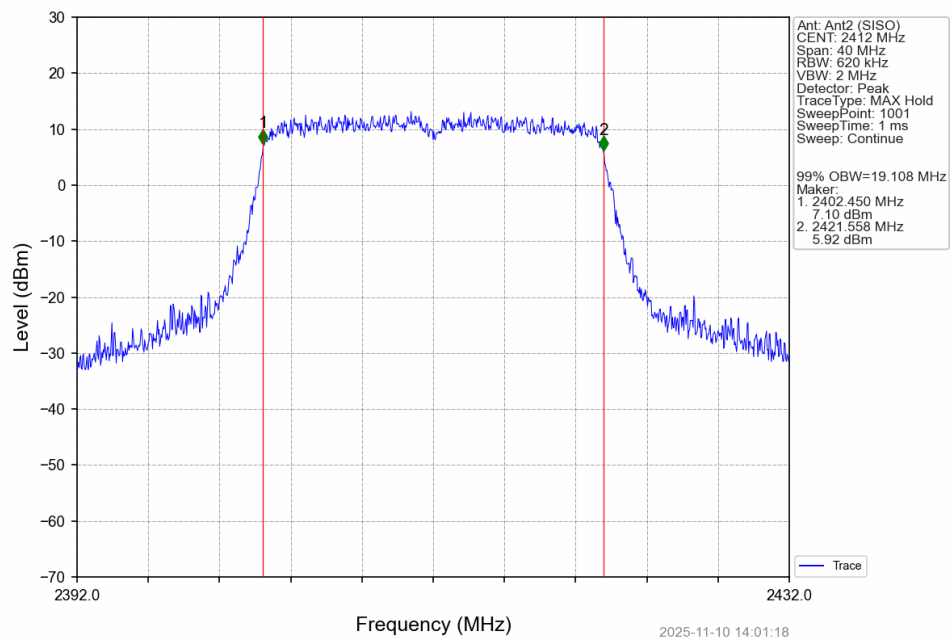
802.11n(HT40) HCH 2452MHz Ant2 (SISO) NTNV



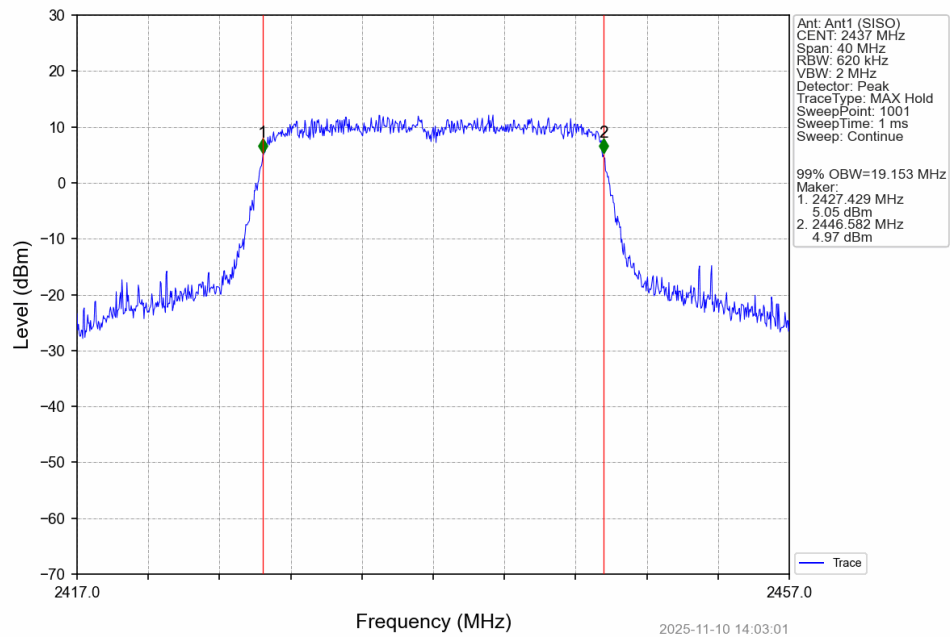
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (SISO) NTNv



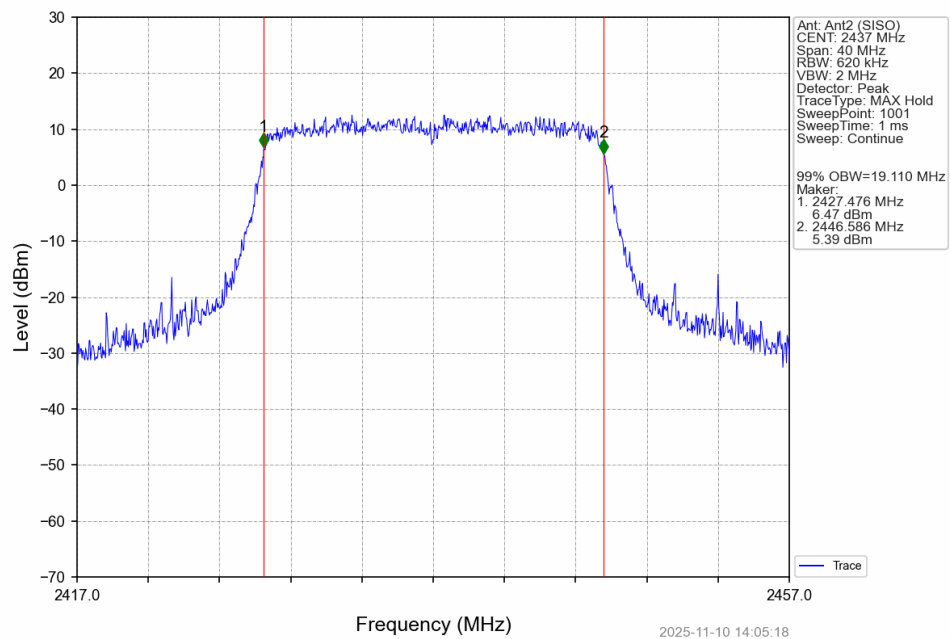
802.11ax(HEW20) LCH 2412MHz SU / Ant2 (SISO) NTNv



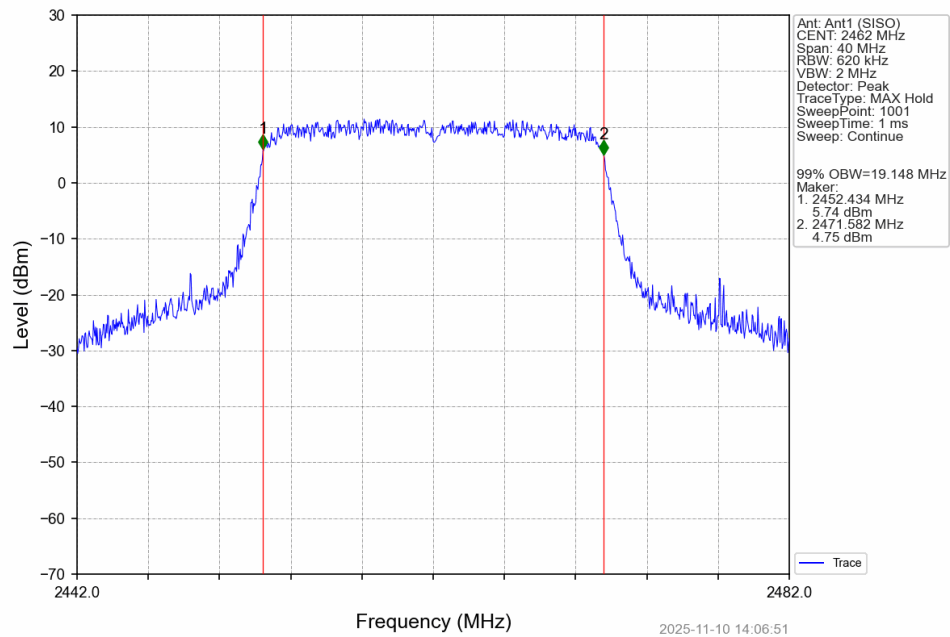
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (SISO) NTNv



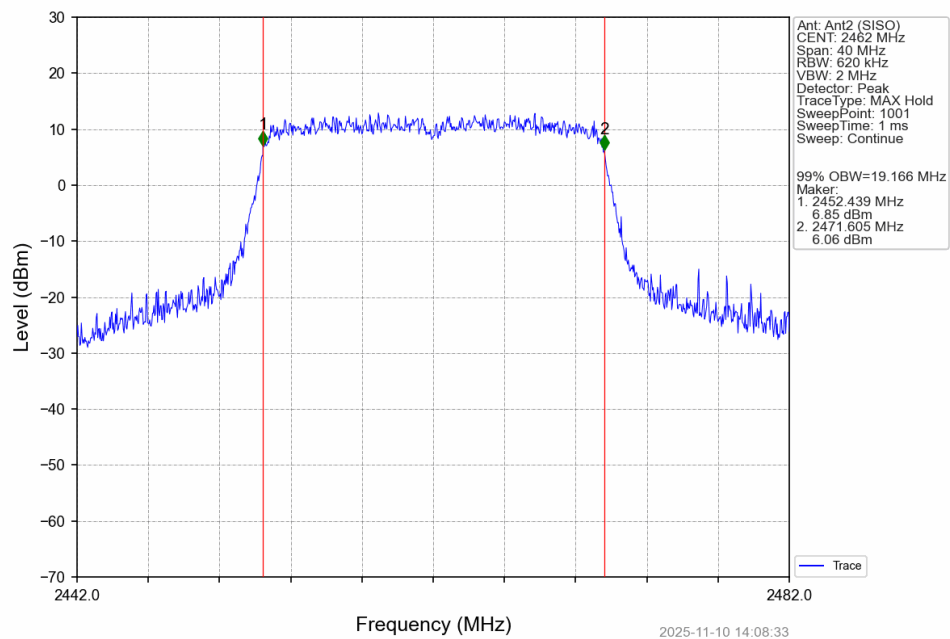
802.11ax(HEW20) MCH 2437MHz SU / Ant2 (SISO) NTNv



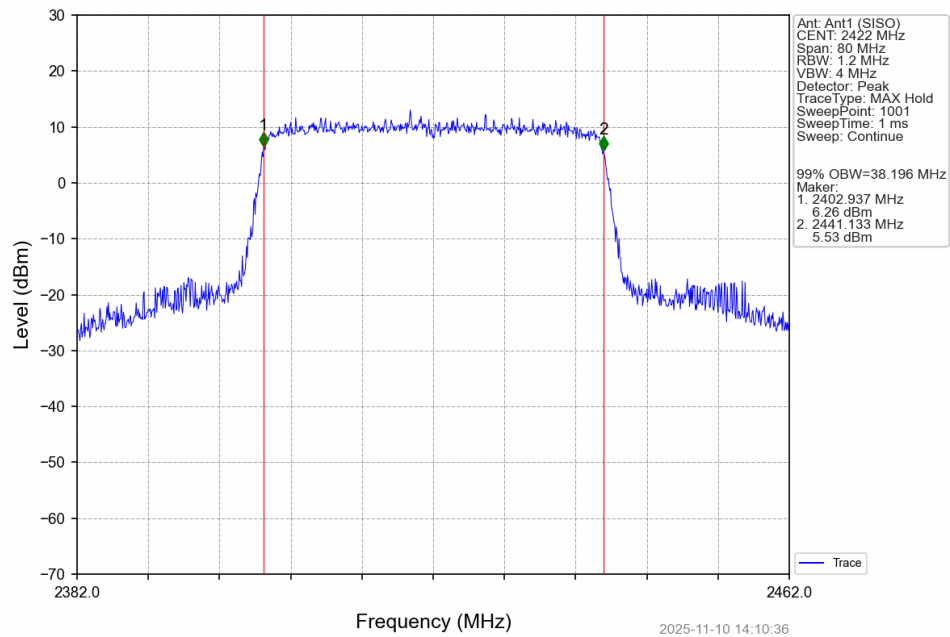
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (SISO) NTNv



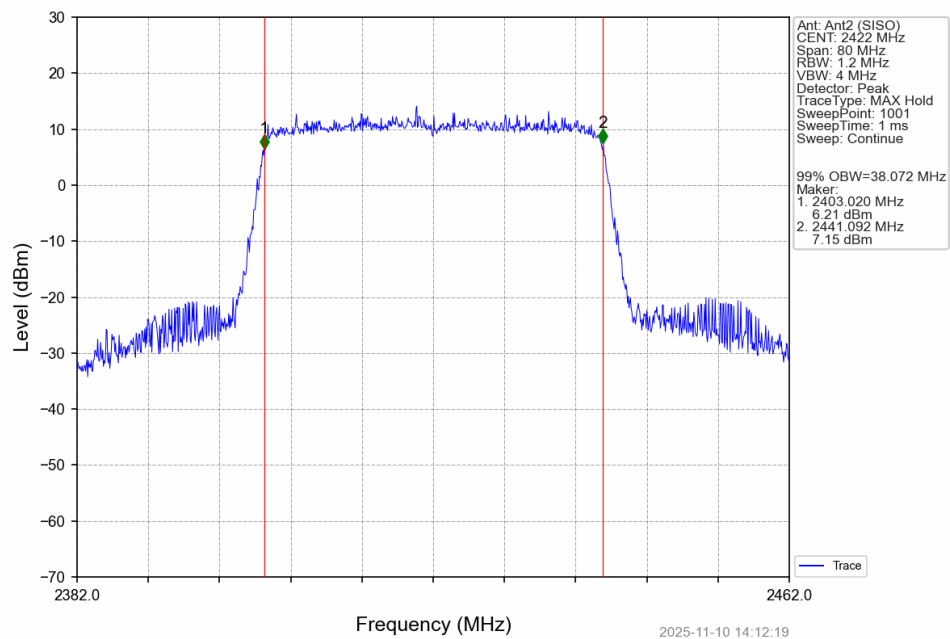
802.11ax(HEW20) HCH 2462MHz SU / Ant2 (SISO) NTNv



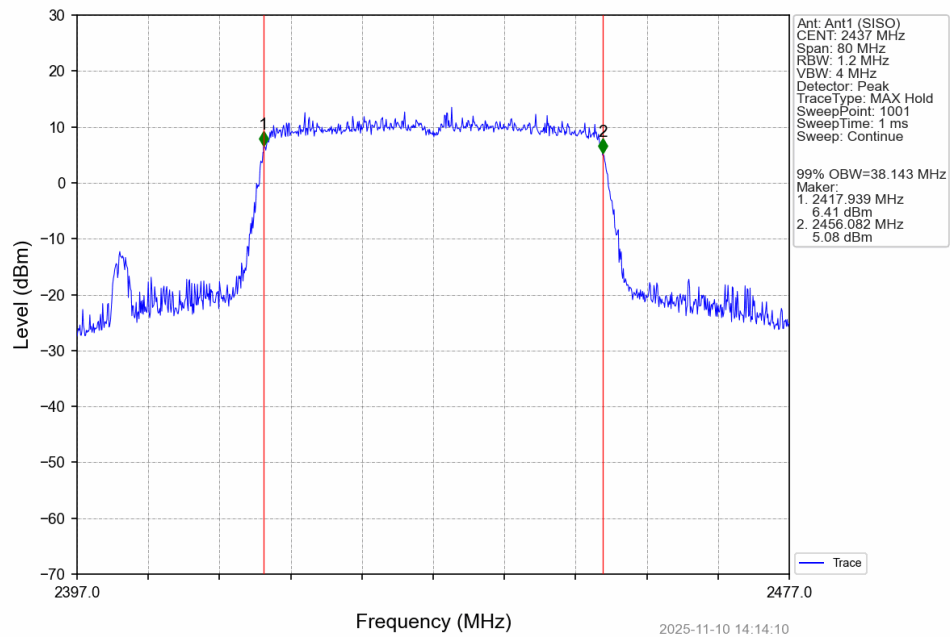
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (SISO) NTNv



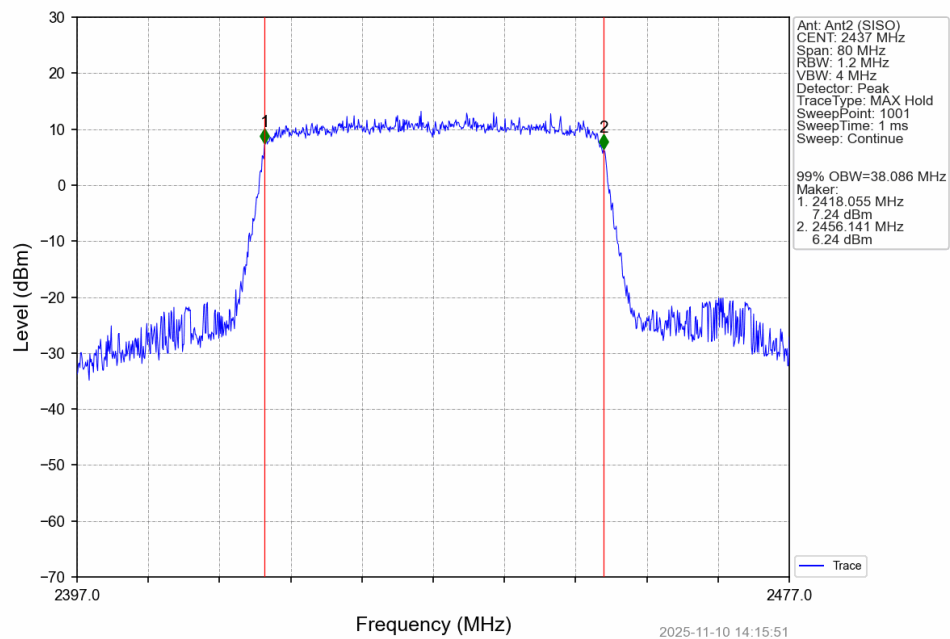
802.11ax(HEW40) LCH 2422MHz SU / Ant2 (SISO) NTNv



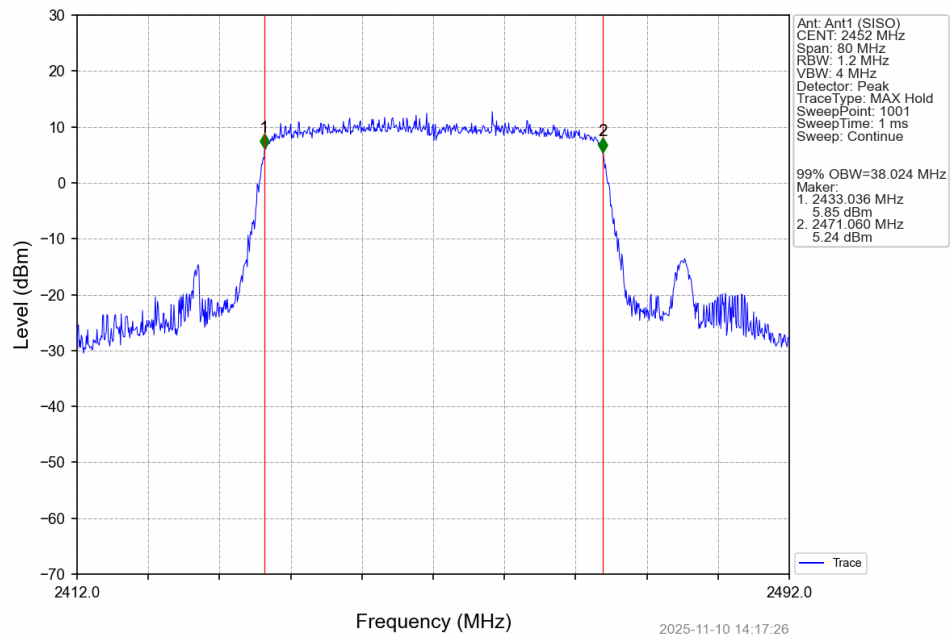
802.11ax(HEW40) MCH 2437MHz SU / Ant1 (SISO) NTNv



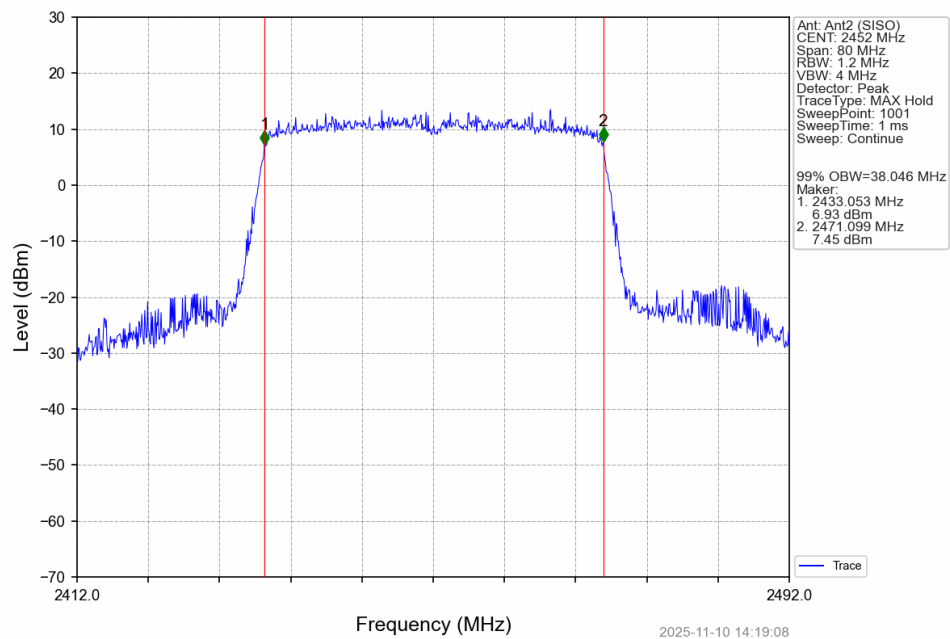
802.11ax(HEW40) MCH 2437MHz SU / Ant2 (SISO) NTNv



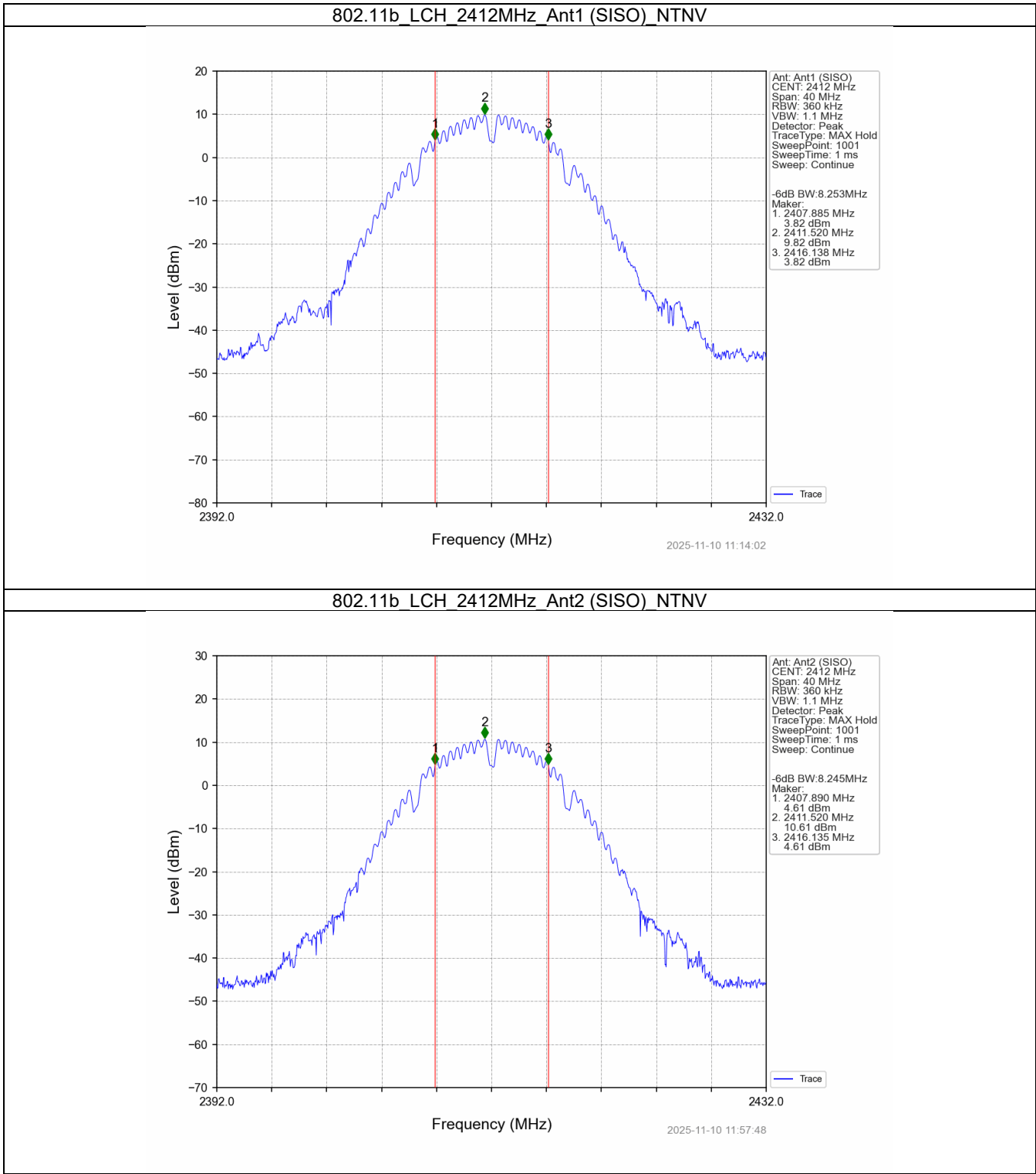
802.11ax(HEW40) HCH 2452MHz SU / Ant1 (SISO) NTNv



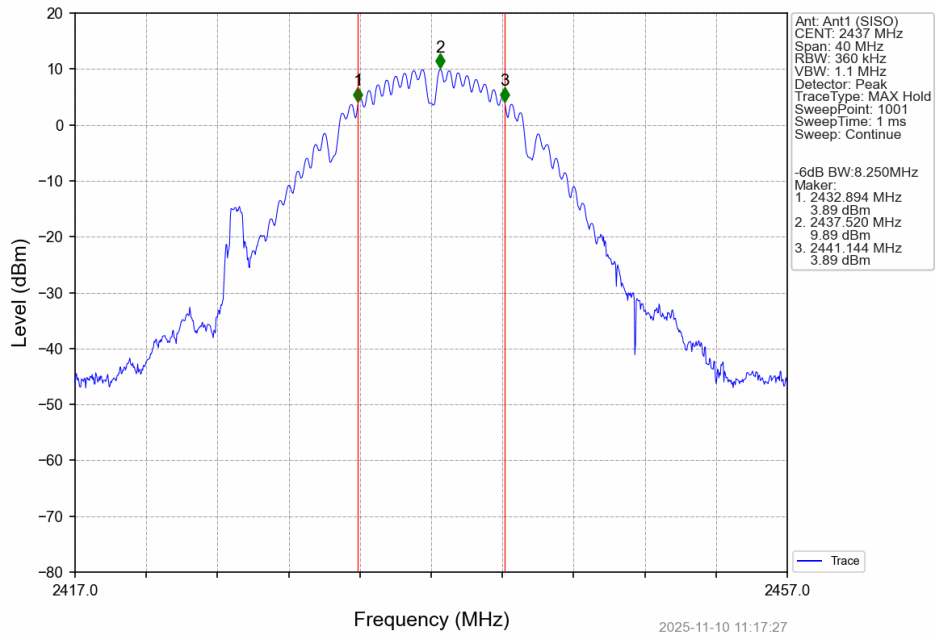
802.11ax(HEW40) HCH 2452MHz SU / Ant2 (SISO) NTNv



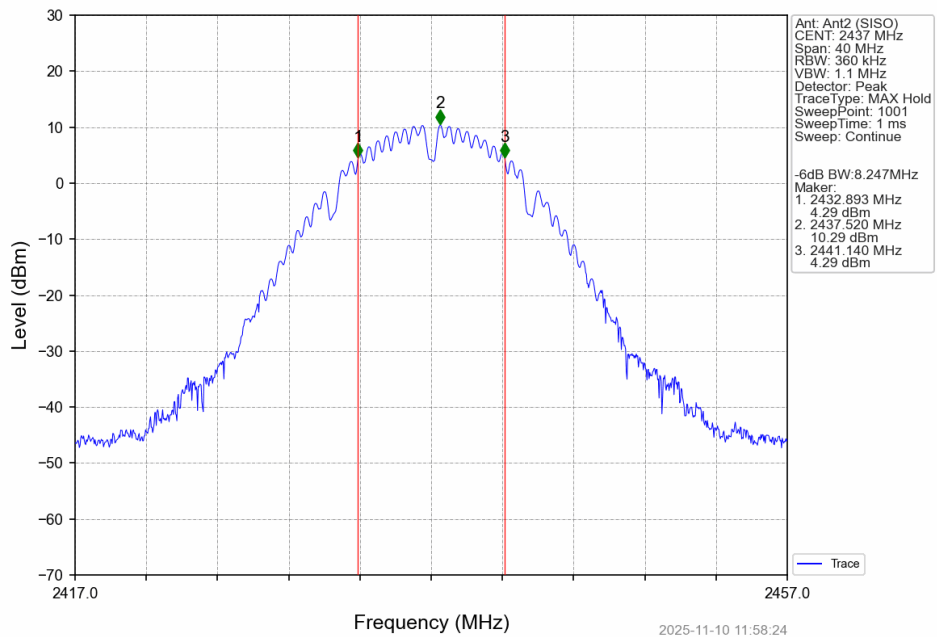
2.2.2 6dB BW



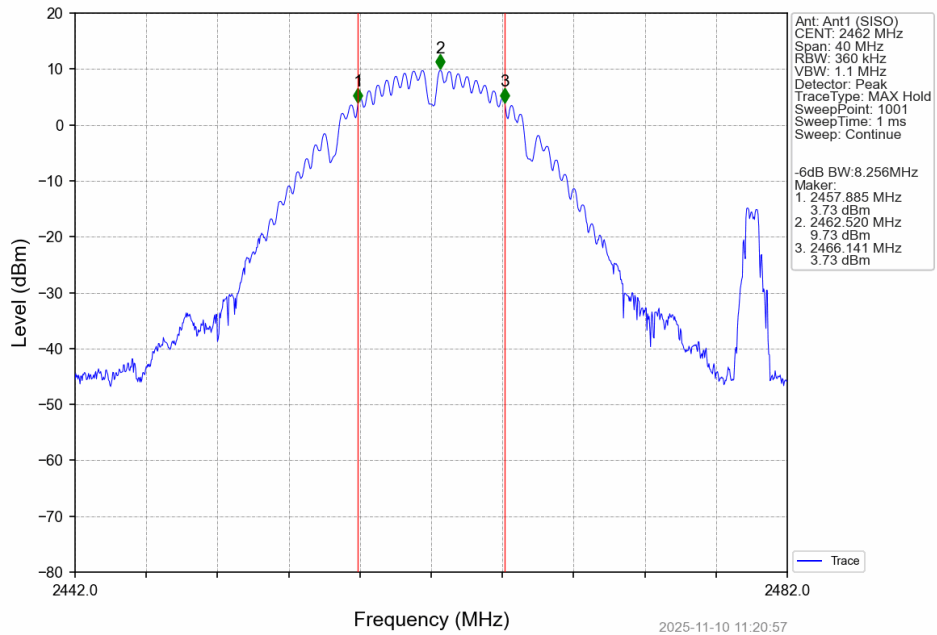
802.11b MCH 2437MHz Ant1 (SISO) NTN



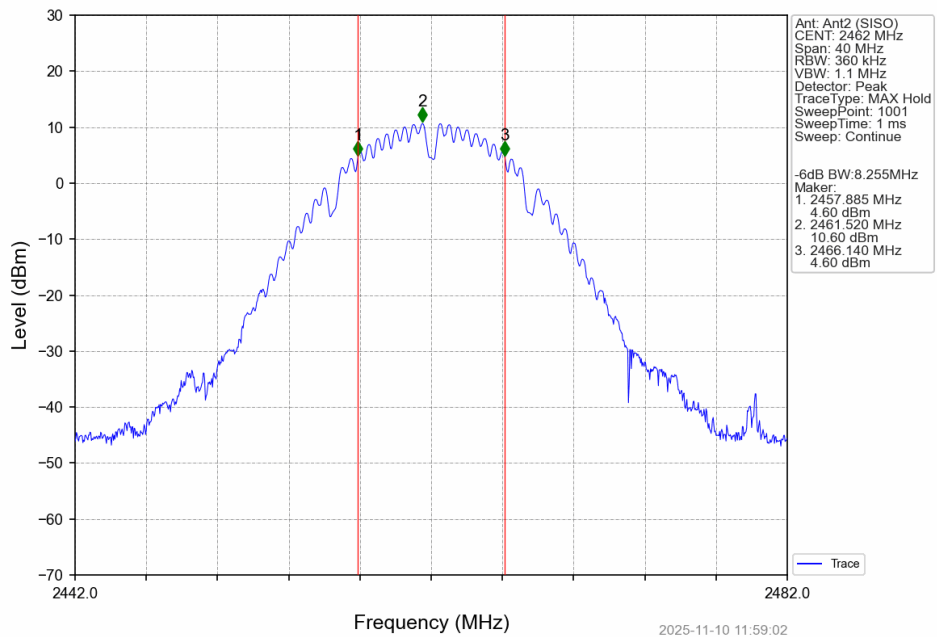
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



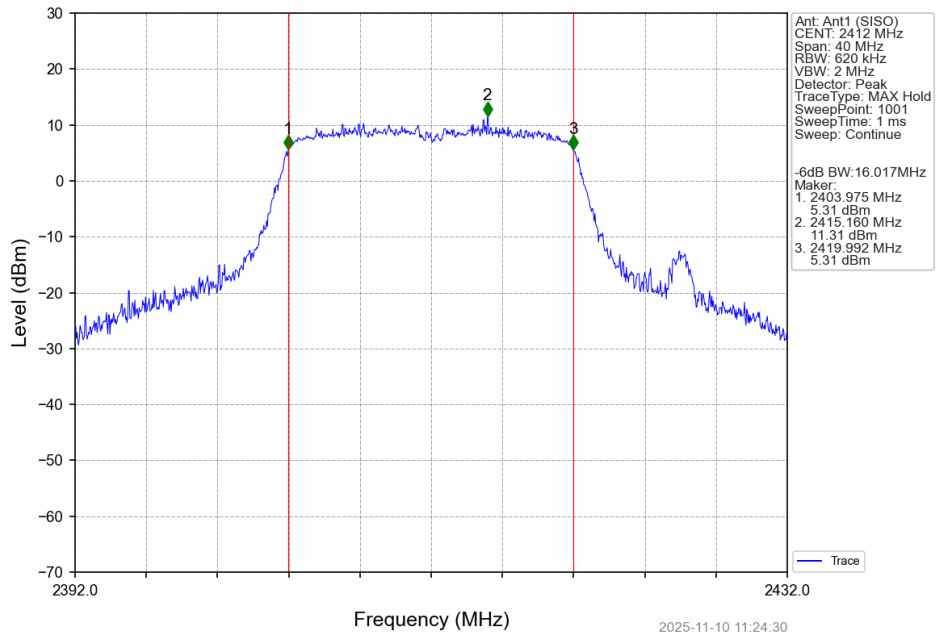
802.11b HCH 2462MHz Ant1 (SISO) NTN



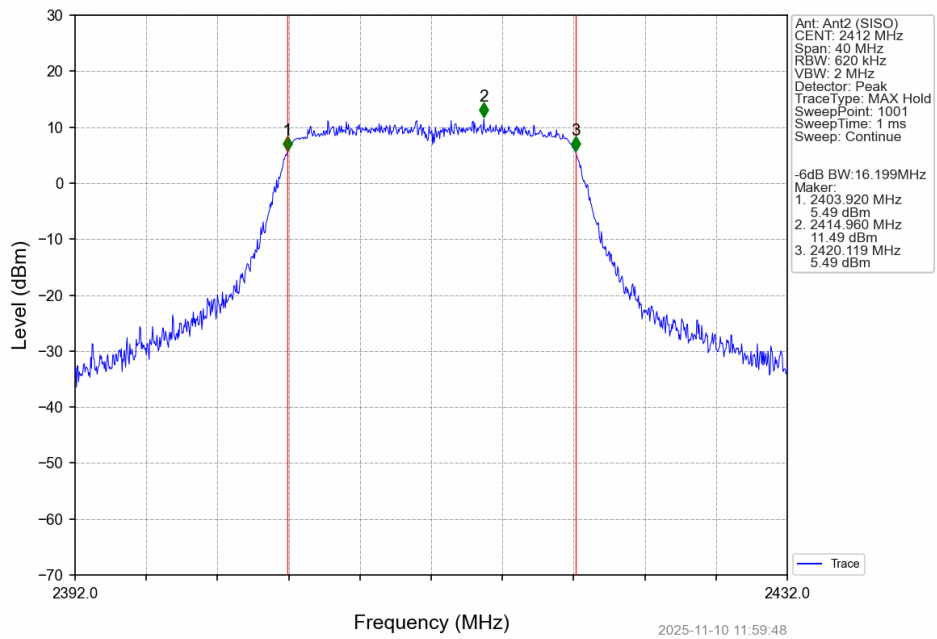
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



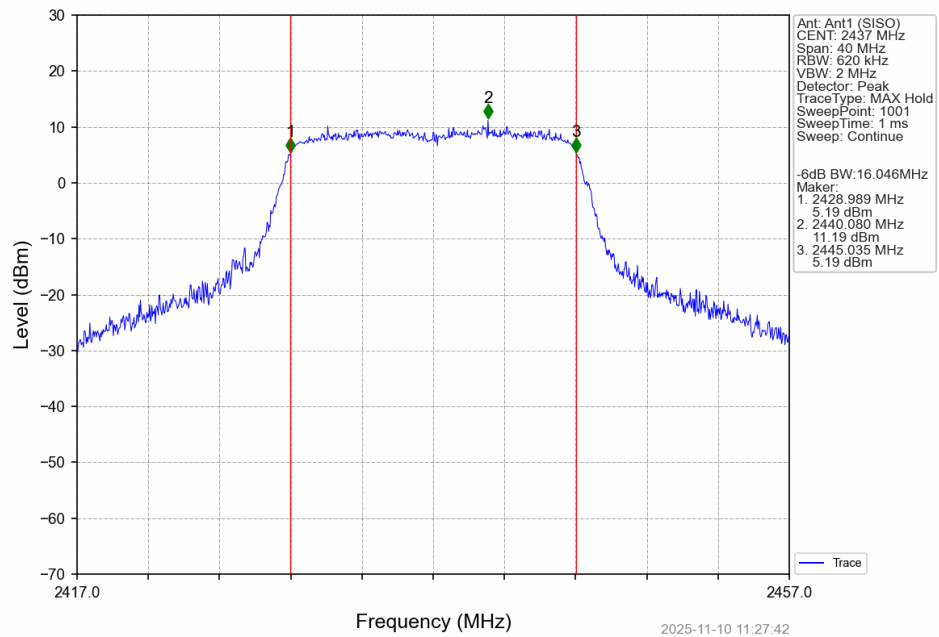
802.11g LCH 2412MHz Ant1 (SISO) NTN



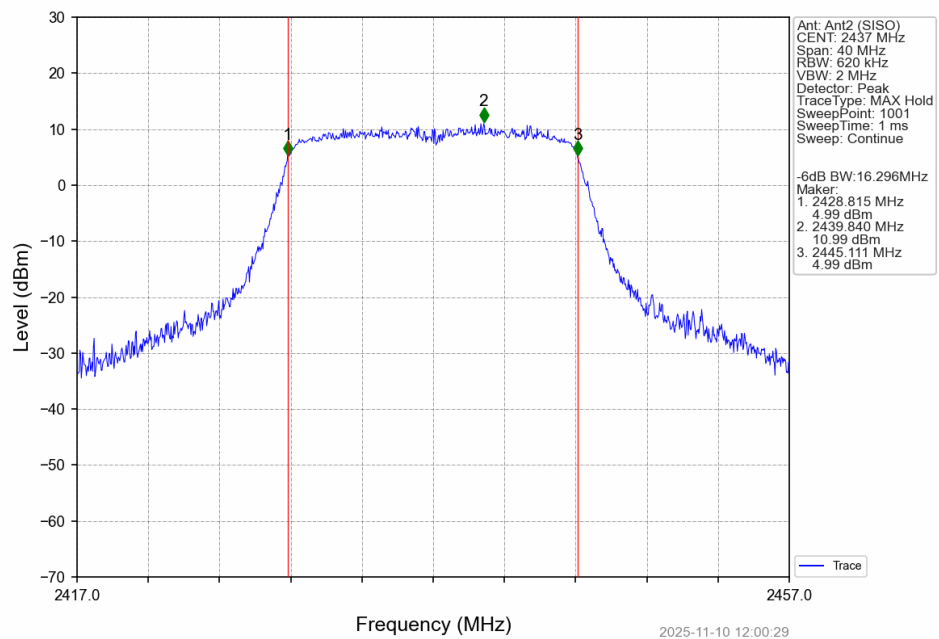
802.11g LCH 2412MHz Ant2 (SISO) NTN



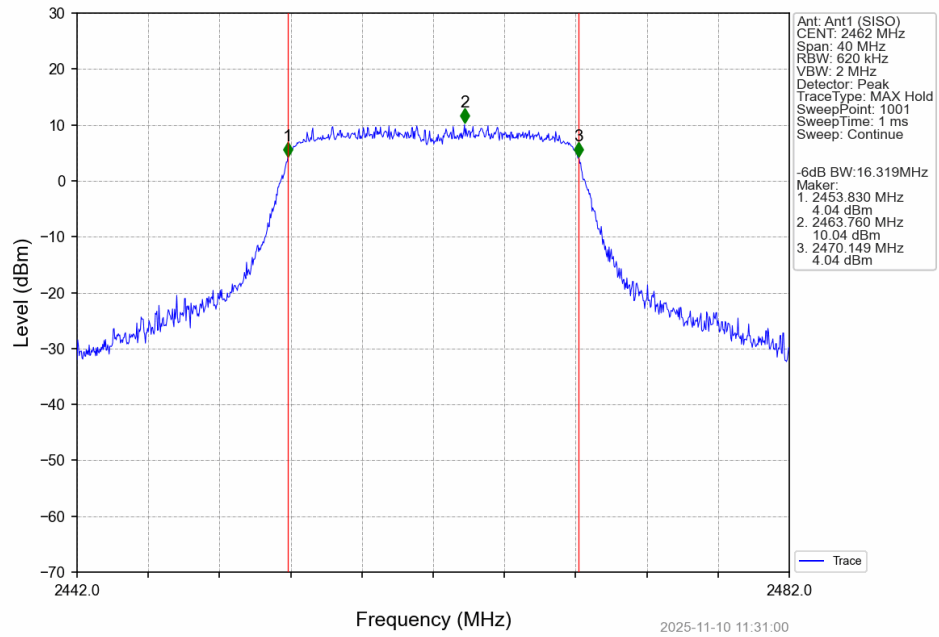
802.11g MCH 2437MHz Ant1 (SISO) NTN



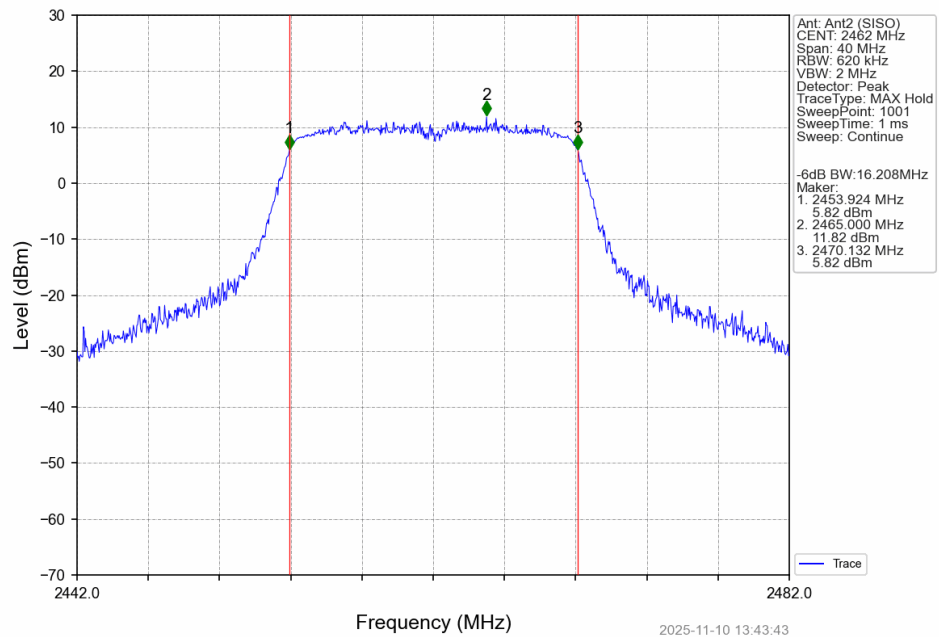
802.11g MCH 2437MHz Ant2 (SISO) NTN



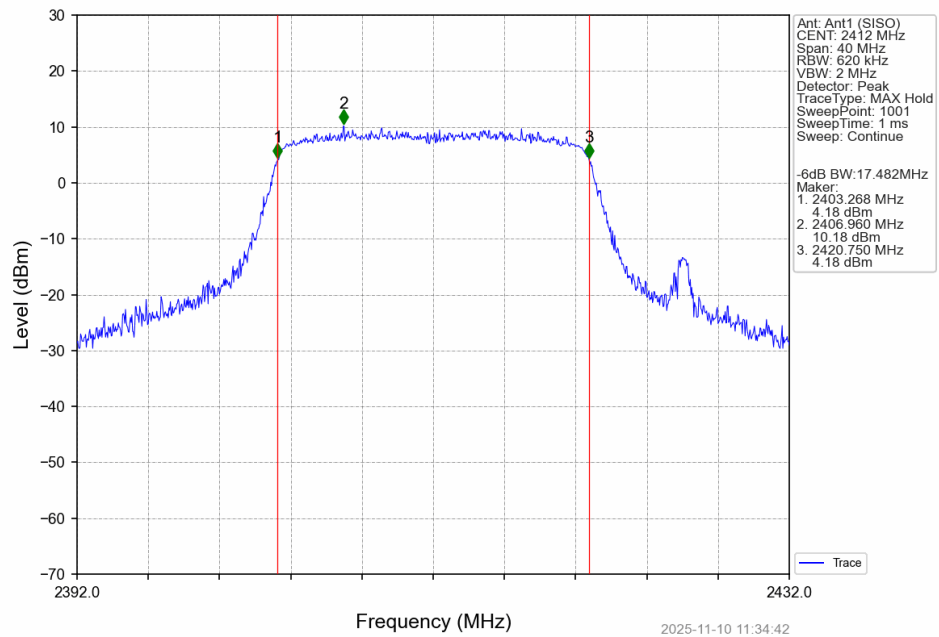
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



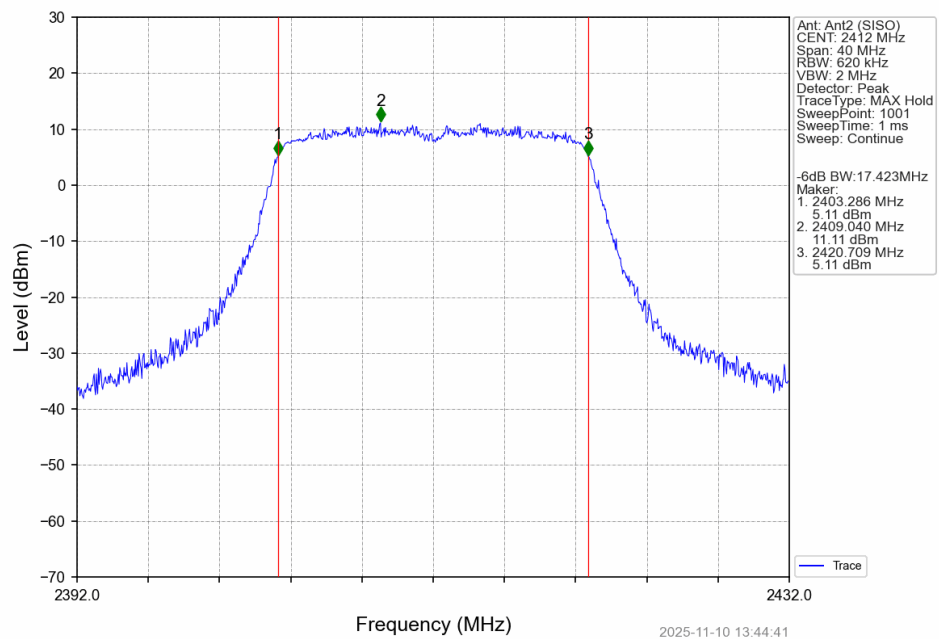
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



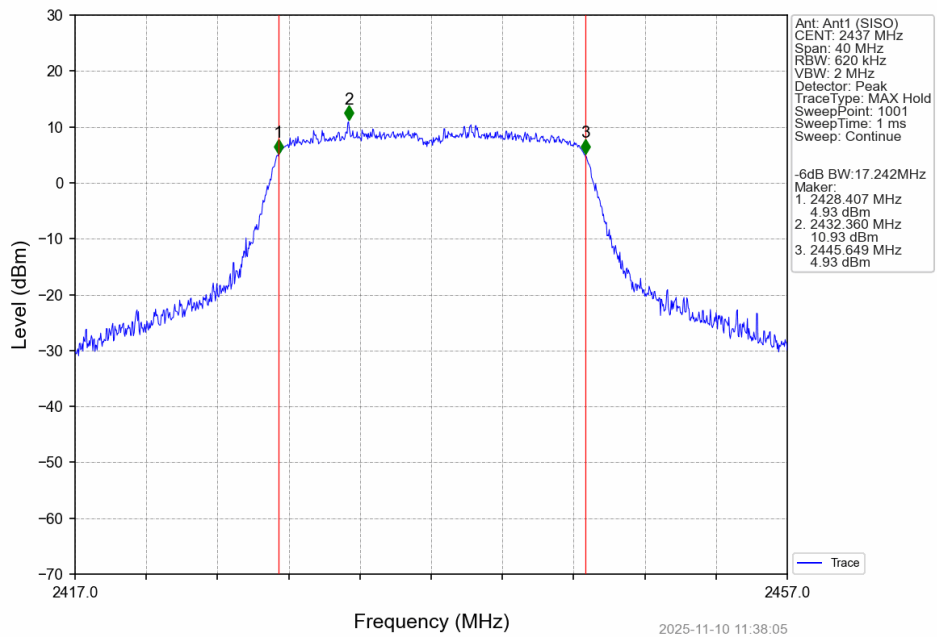
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



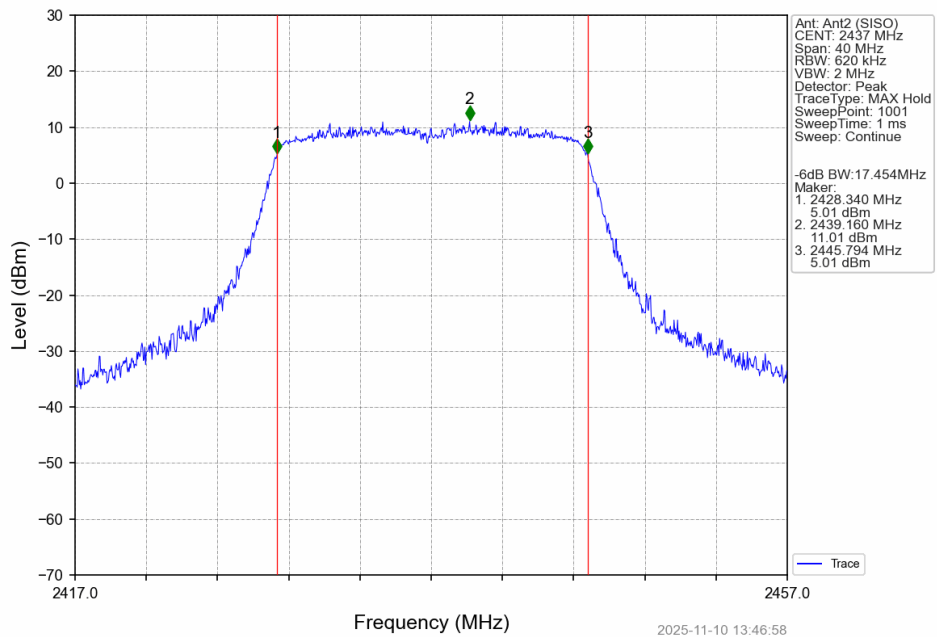
802.11n(HT20) LCH 2412MHz Ant2 (SISO) NTN



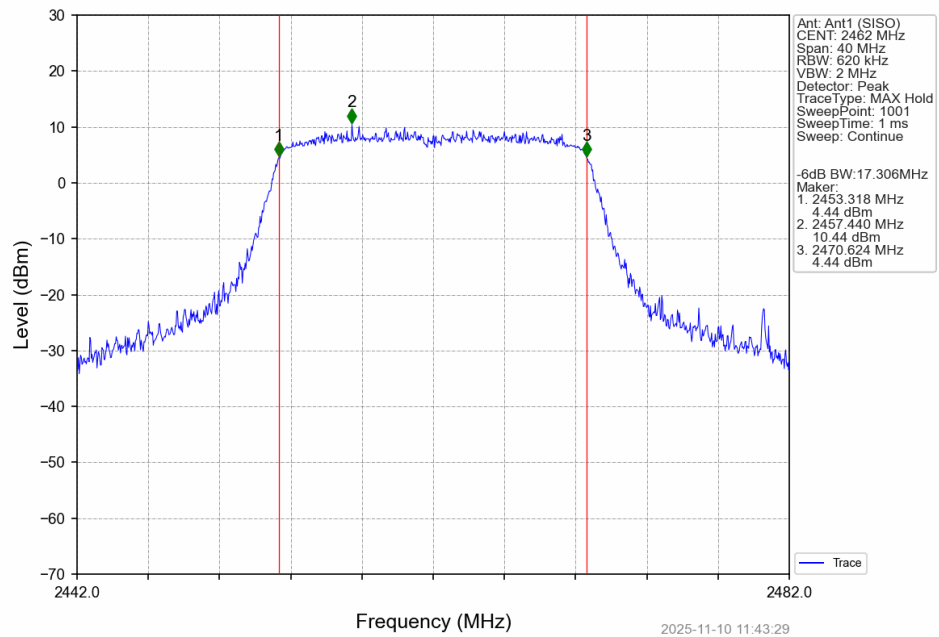
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO) NTN



802.11n(HT20)_MCH_2437MHz_Ant2 (SISO) NTN



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT20) HCH 2462MHz Ant2 (SISO) NTNV

