

Appendix RF Test Data for 2.4GWIFI

Company: : Shenzhen Zigxico Technology Co., Ltd.

EUT : Smart Camera

FCC ID: : 2AZHU-B66-1

Model Number : B66

Report No. : HTT202510483F01

Reviewed By : Heber He

1. Duty Cycle

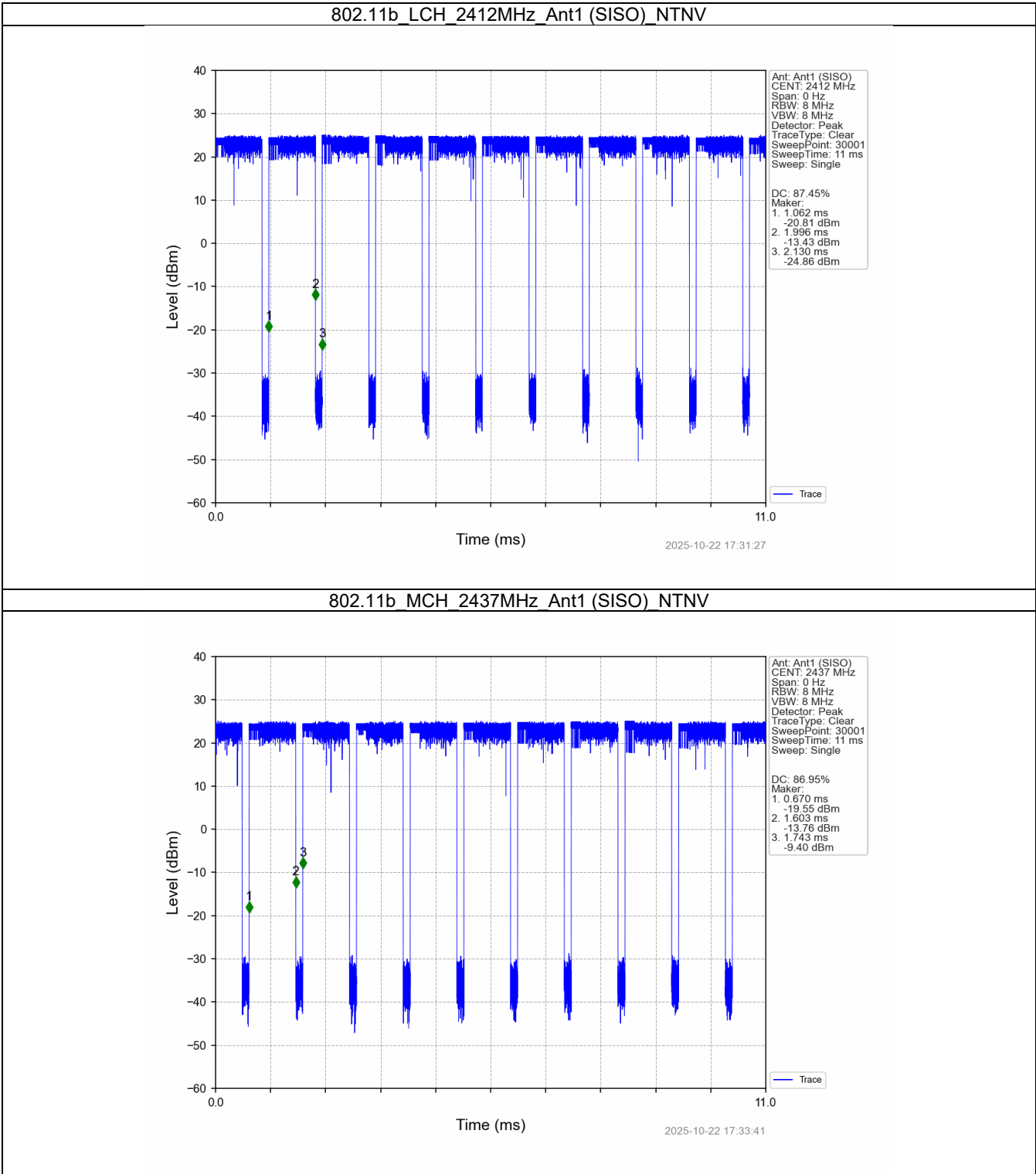
1.1 Test Result

1.1.1 Ant1

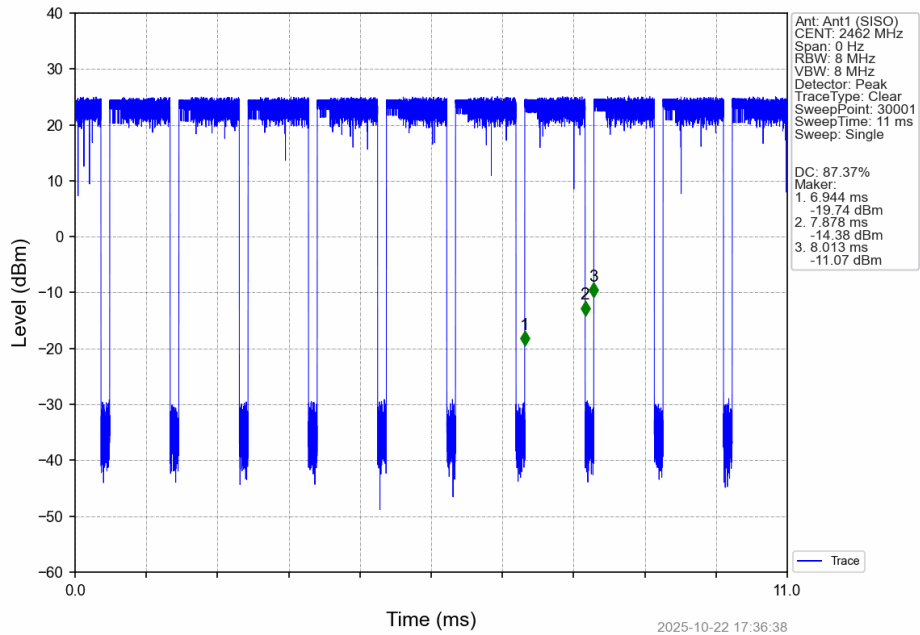
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.934	1.068	87.45	0.58	0.03
		2437	0.933	1.073	86.95	0.61	0.03
		2462	0.934	1.069	87.37	0.59	0.03
802.11g	SISO	2412	0.172	0.871	19.75	7.04	0.06
		2437	0.173	0.879	19.68	7.06	0.07
		2462	0.172	0.876	19.63	7.07	0.07
802.11n (HT20)	SISO	2412	0.164	0.836	19.62	7.07	0.06
		2437	0.165	0.836	19.74	7.05	0.06
		2462	0.165	0.833	19.81	7.03	0.04
802.11n (HT40)	SISO	2422	0.280	0.701	39.94	3.99	0.05
		2437	0.280	0.699	40.06	3.97	0.07
		2452	0.280	0.699	40.06	3.97	0.03

1.2 Test Graph

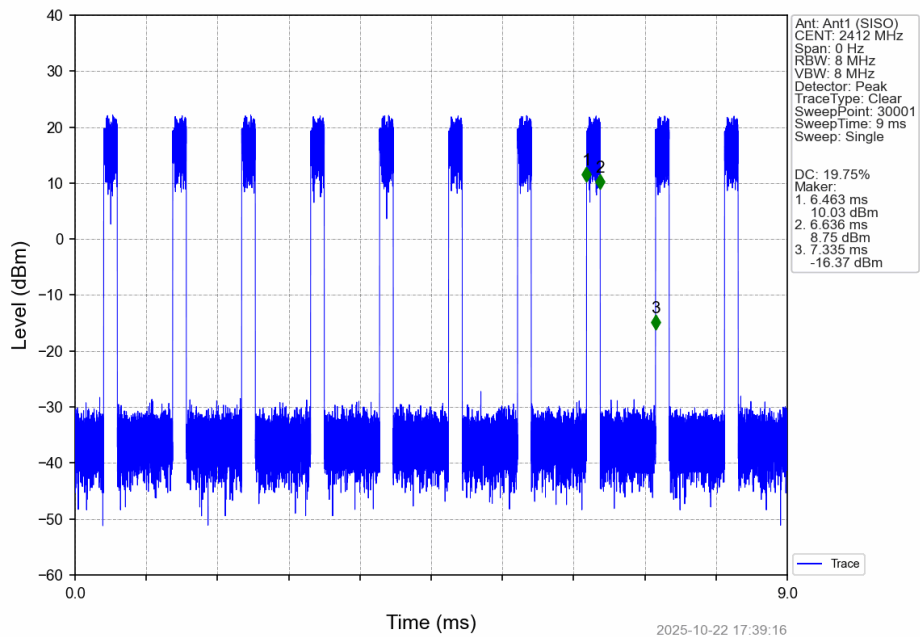
1.2.1 Ant1



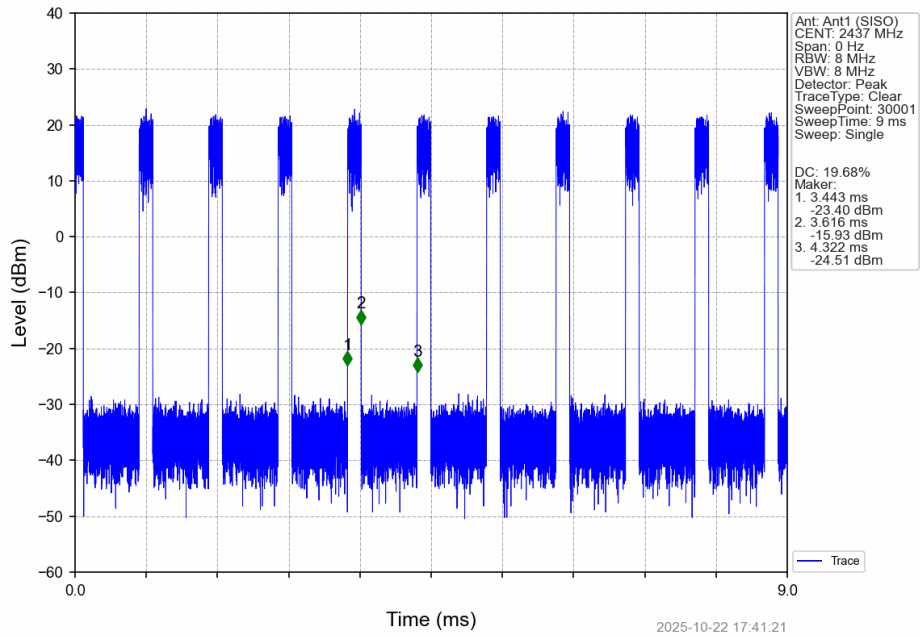
802.11b HCH 2462MHz Ant1 (SISO) NTN



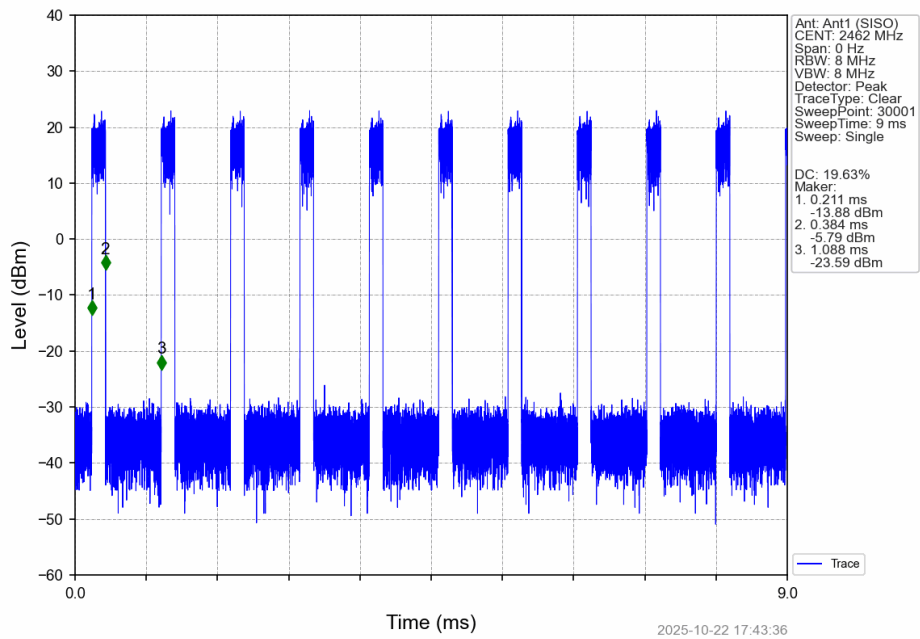
802.11g LCH 2412MHz Ant1 (SISO) NTN



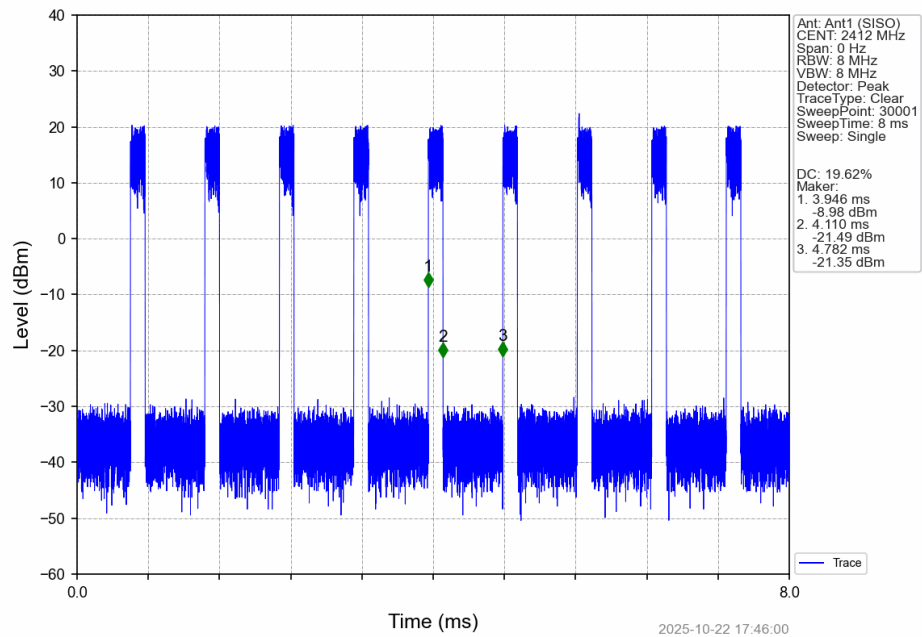
802.11g MCH 2437MHz Ant1 (SISO) NTN



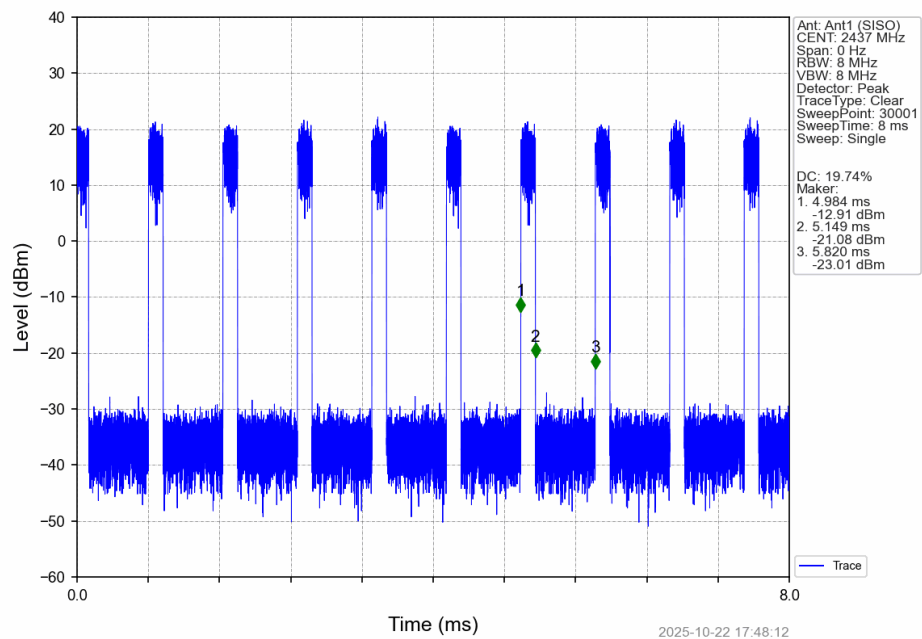
802.11g_HCH_2462MHz_Ant1 (SISO)_NTN



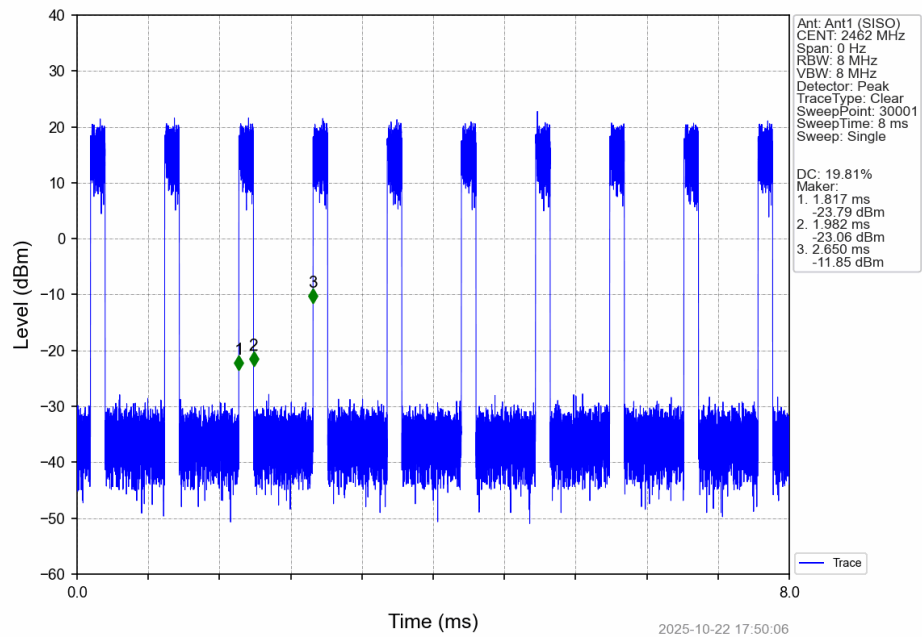
802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTN



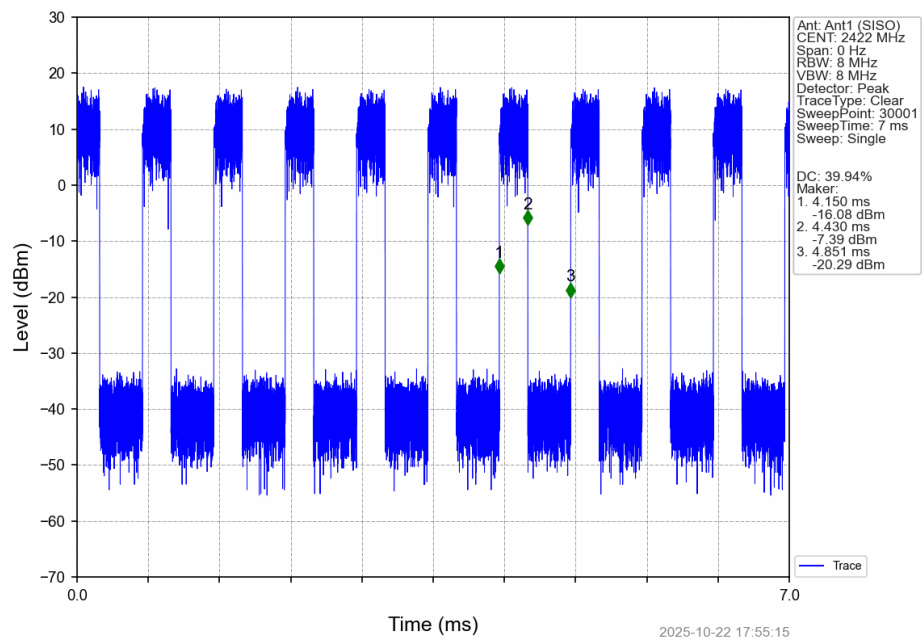
802.11n(HT20) MCH_2437MHz_Ant1 (SISO) NTN



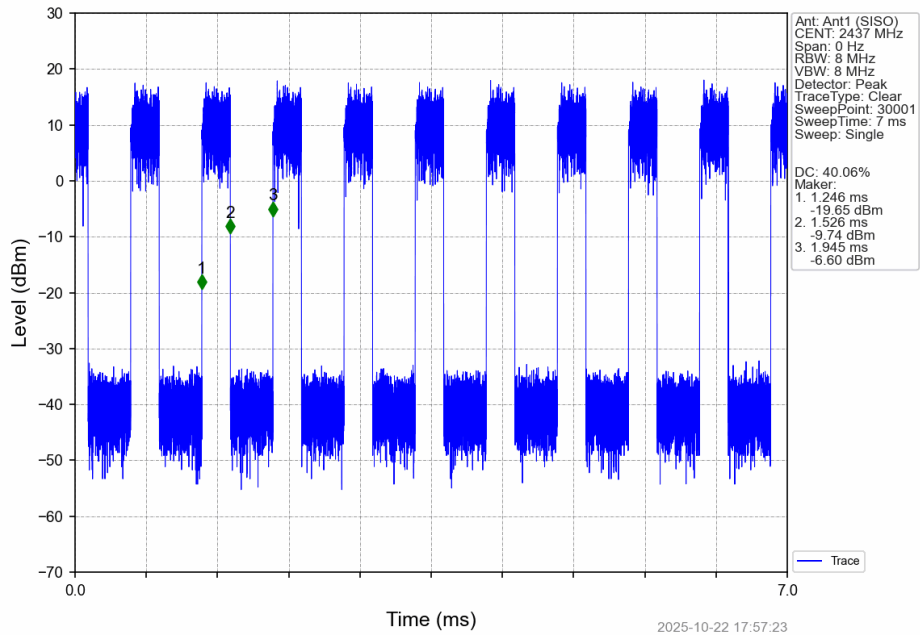
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



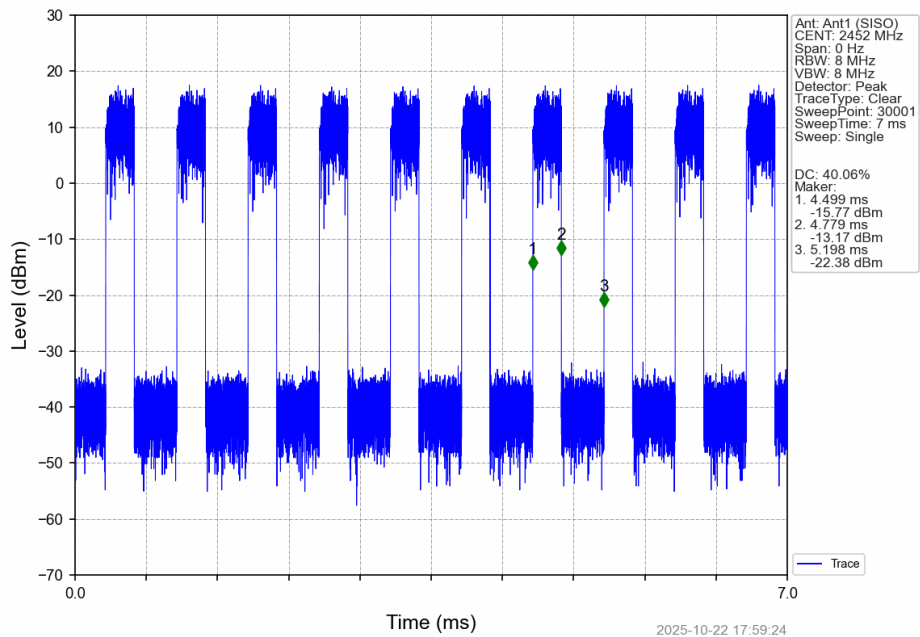
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

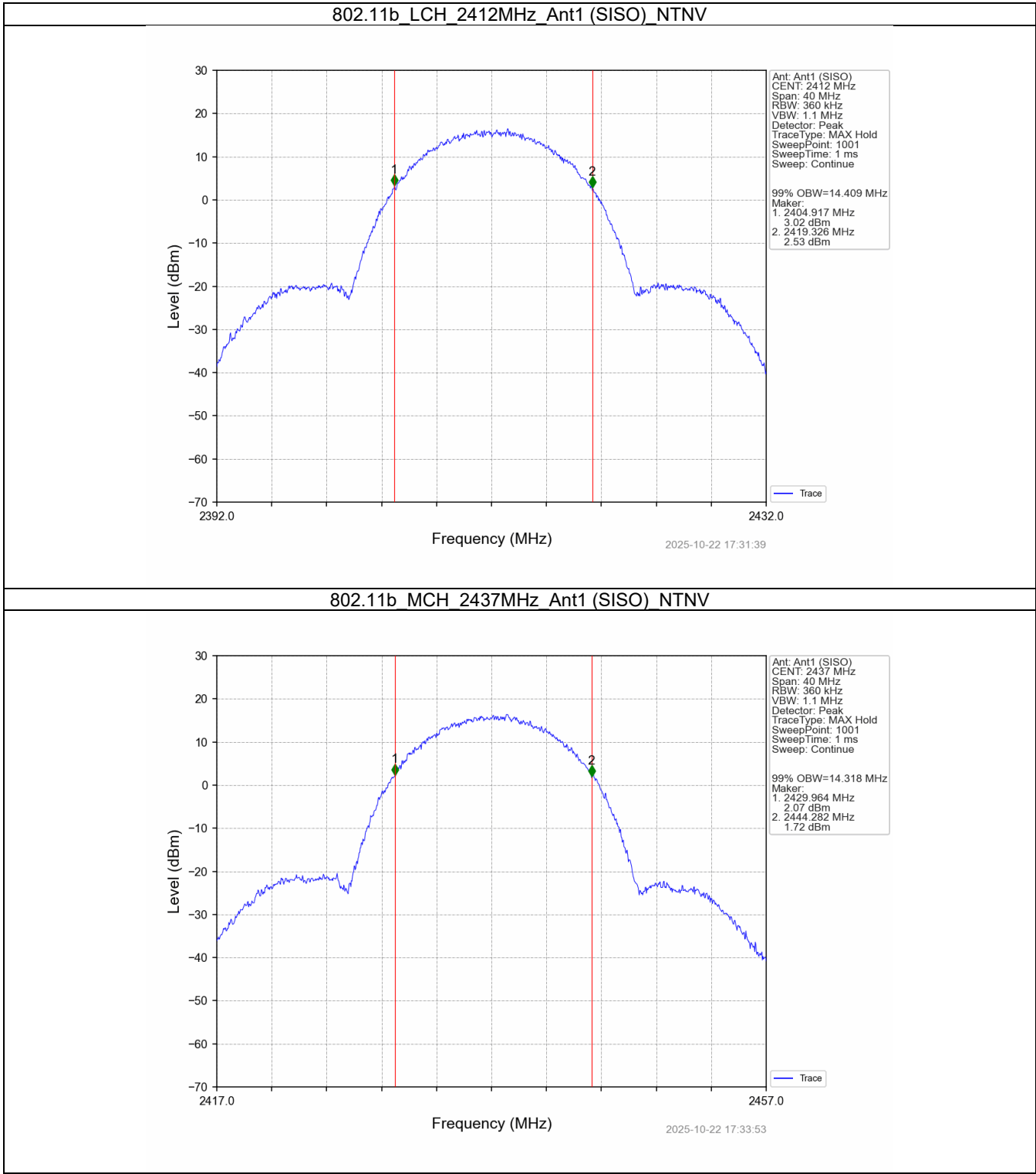
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.409	/	Pass
		2437	1	14.318	/	Pass
		2462	1	14.329	/	Pass
802.11g	SISO	2412	1	16.824	/	Pass
		2437	1	16.868	/	Pass
		2462	1	17.076	/	Pass
802.11n (HT20)	SISO	2412	1	17.796	/	Pass
		2437	1	17.650	/	Pass
		2462	1	17.729	/	Pass
802.11n (HT40)	SISO	2422	1	36.200	/	Pass
		2437	1	36.202	/	Pass
		2452	1	36.151	/	Pass

2.1.2 6dB BW

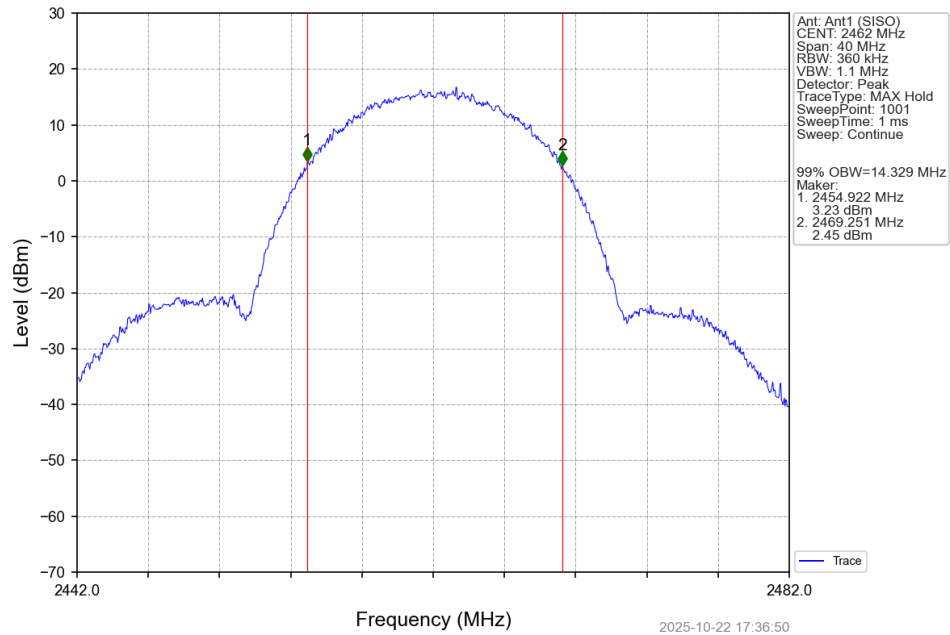
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.072	≥ 0.5	Pass
		2437	1	9.576	≥ 0.5	Pass
		2462	1	9.687	≥ 0.5	Pass
802.11g	SISO	2412	1	16.381	≥ 0.5	Pass
		2437	1	16.492	≥ 0.5	Pass
		2462	1	16.724	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.692	≥ 0.5	Pass
		2437	1	17.351	≥ 0.5	Pass
		2462	1	17.141	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.051	≥ 0.5	Pass
		2437	1	36.056	≥ 0.5	Pass
		2452	1	35.969	≥ 0.5	Pass

2.2 Test Graph

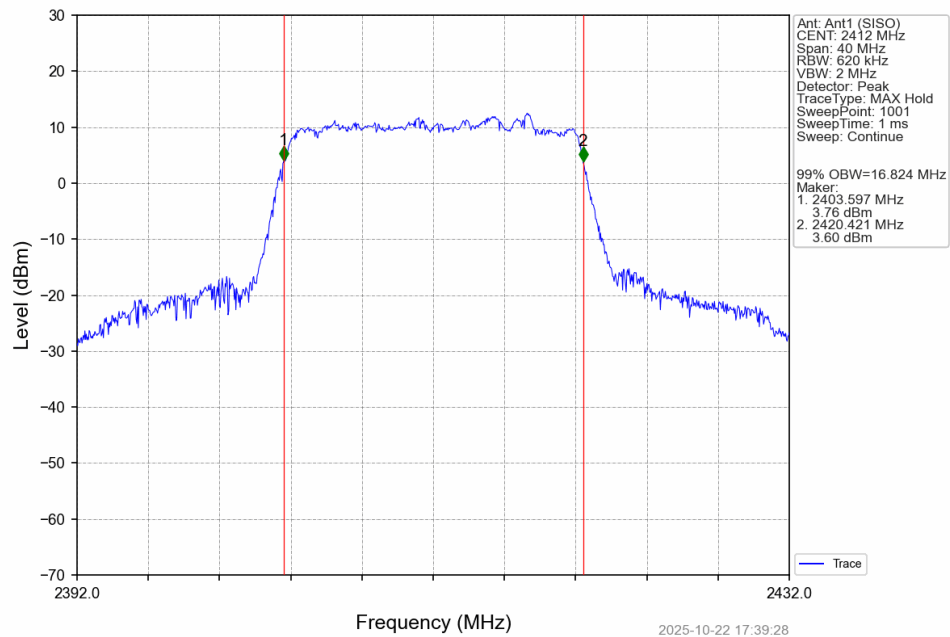
2.2.1 OBW



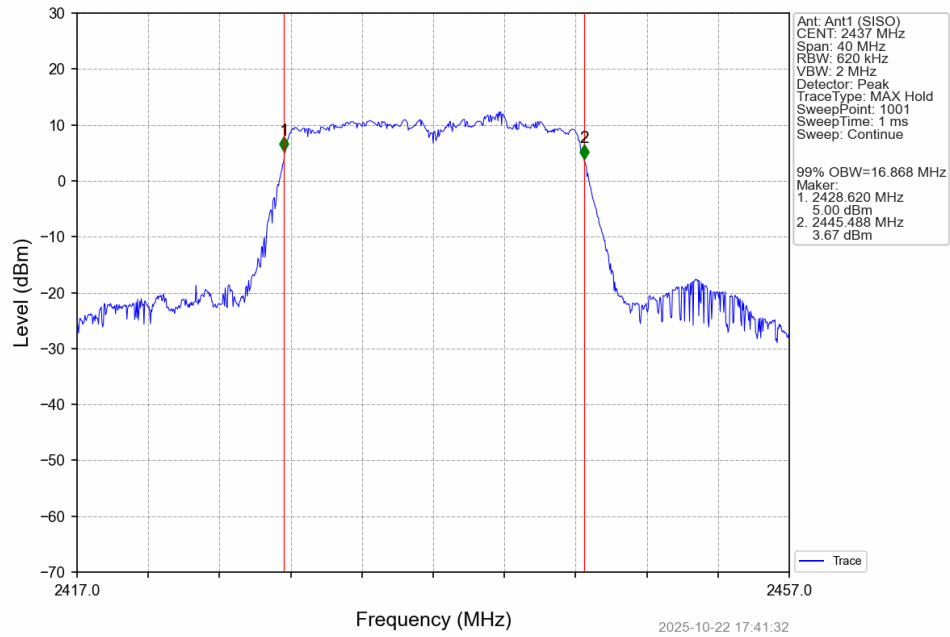
802.11b HCH 2462MHz Ant1 (SISO) NTN



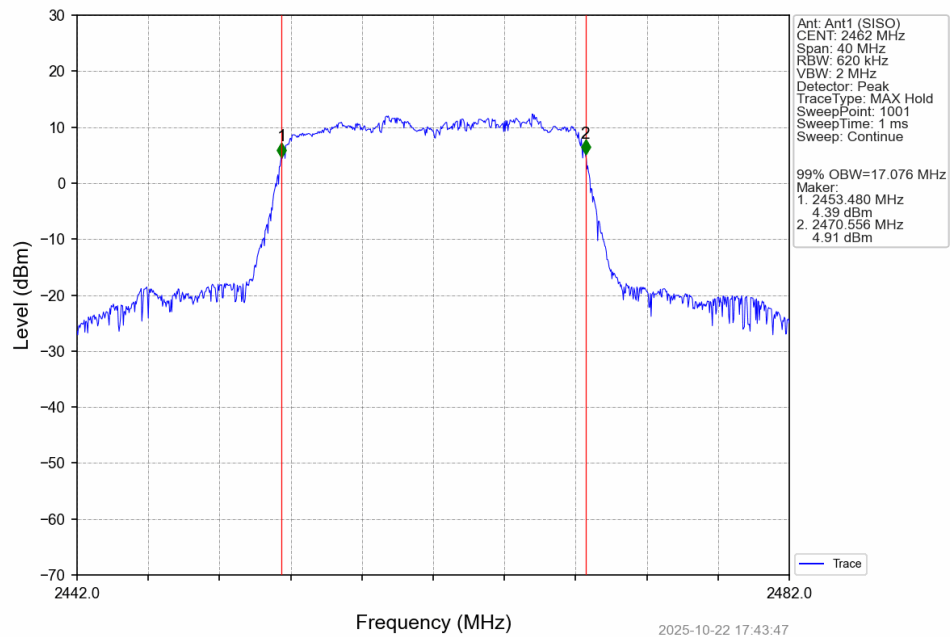
802.11g LCH 2412MHz Ant1 (SISO) NTN



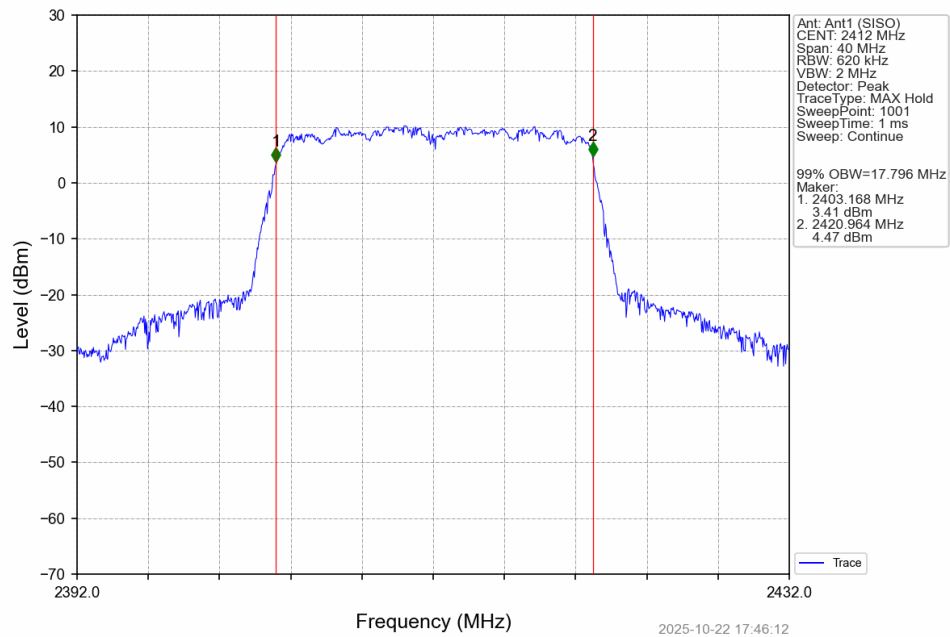
802.11g MCH 2437MHz Ant1 (SISO) NTN



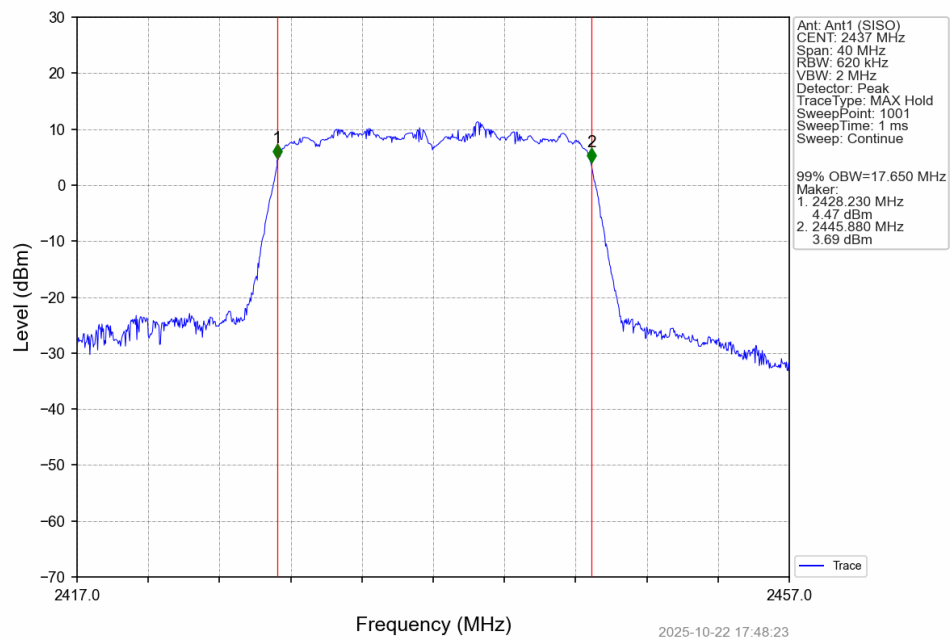
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



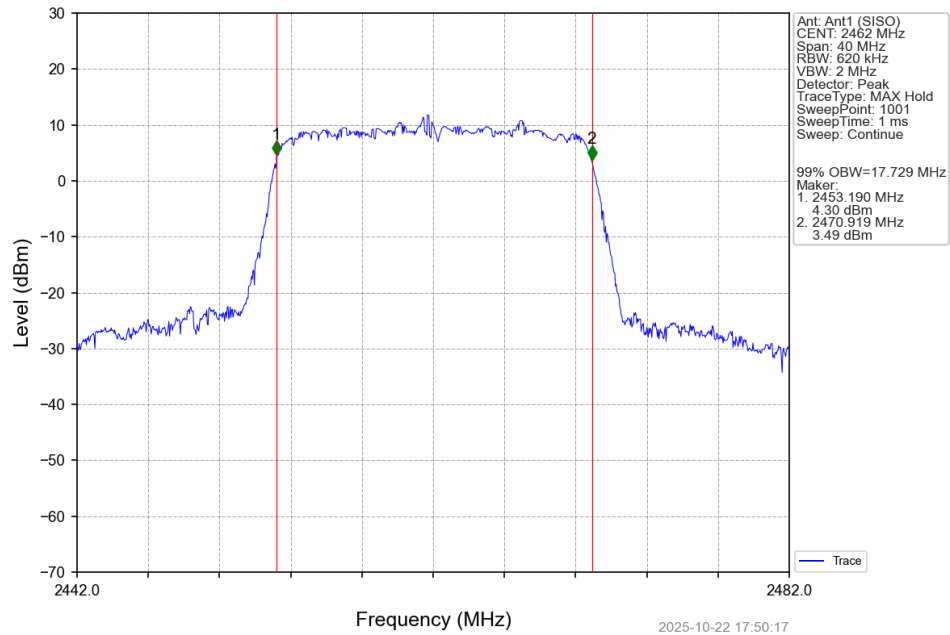
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



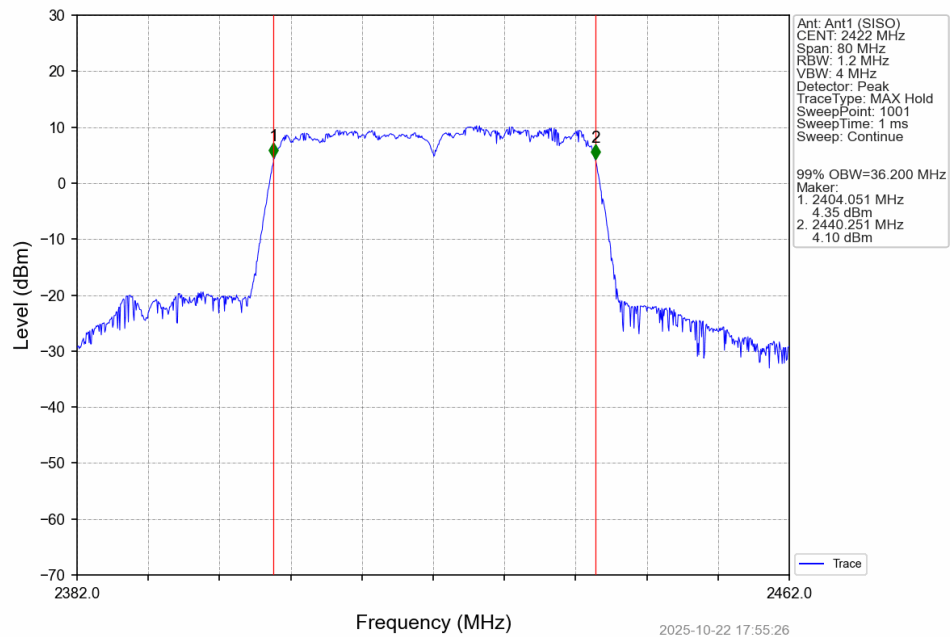
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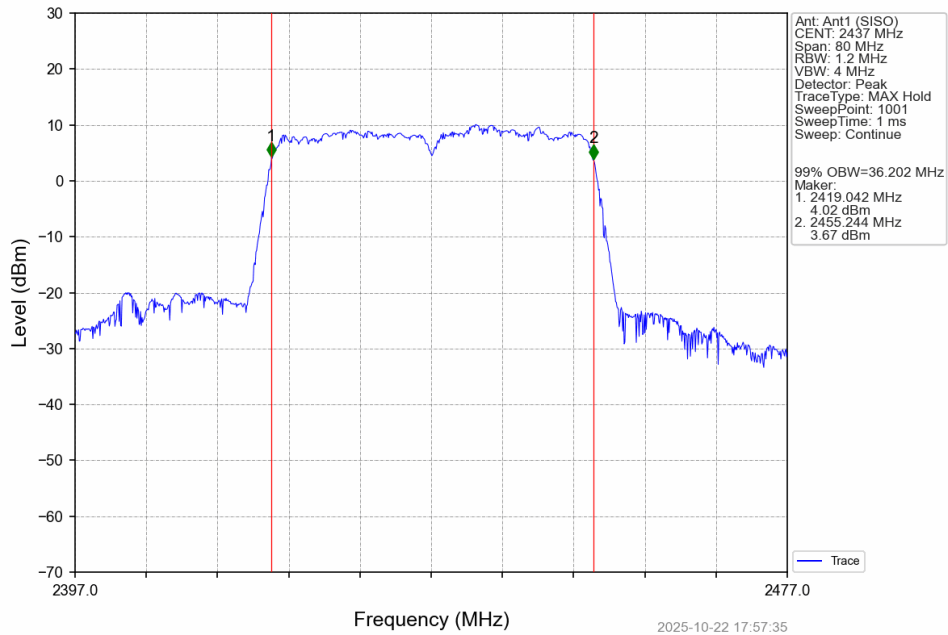
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



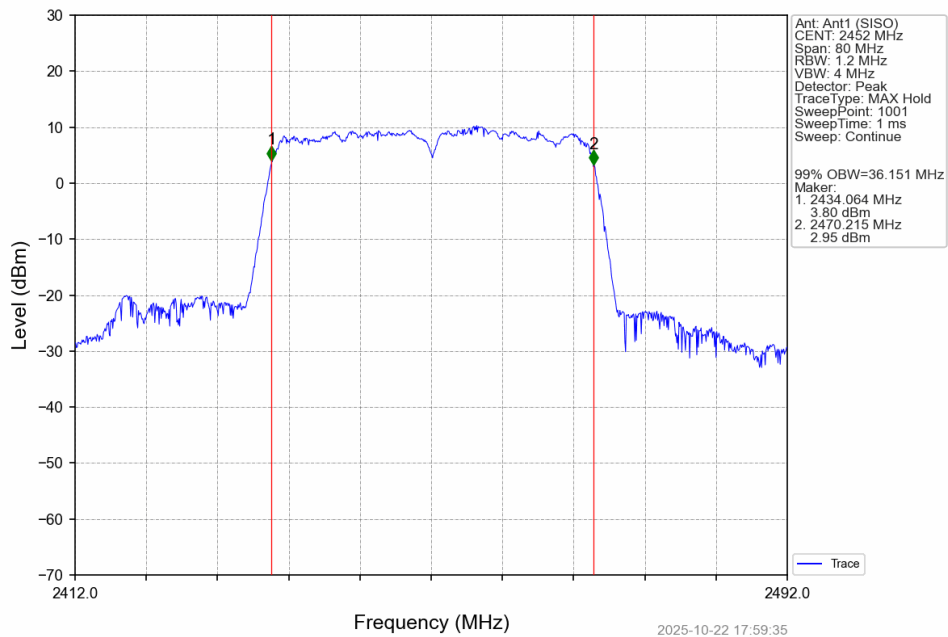
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



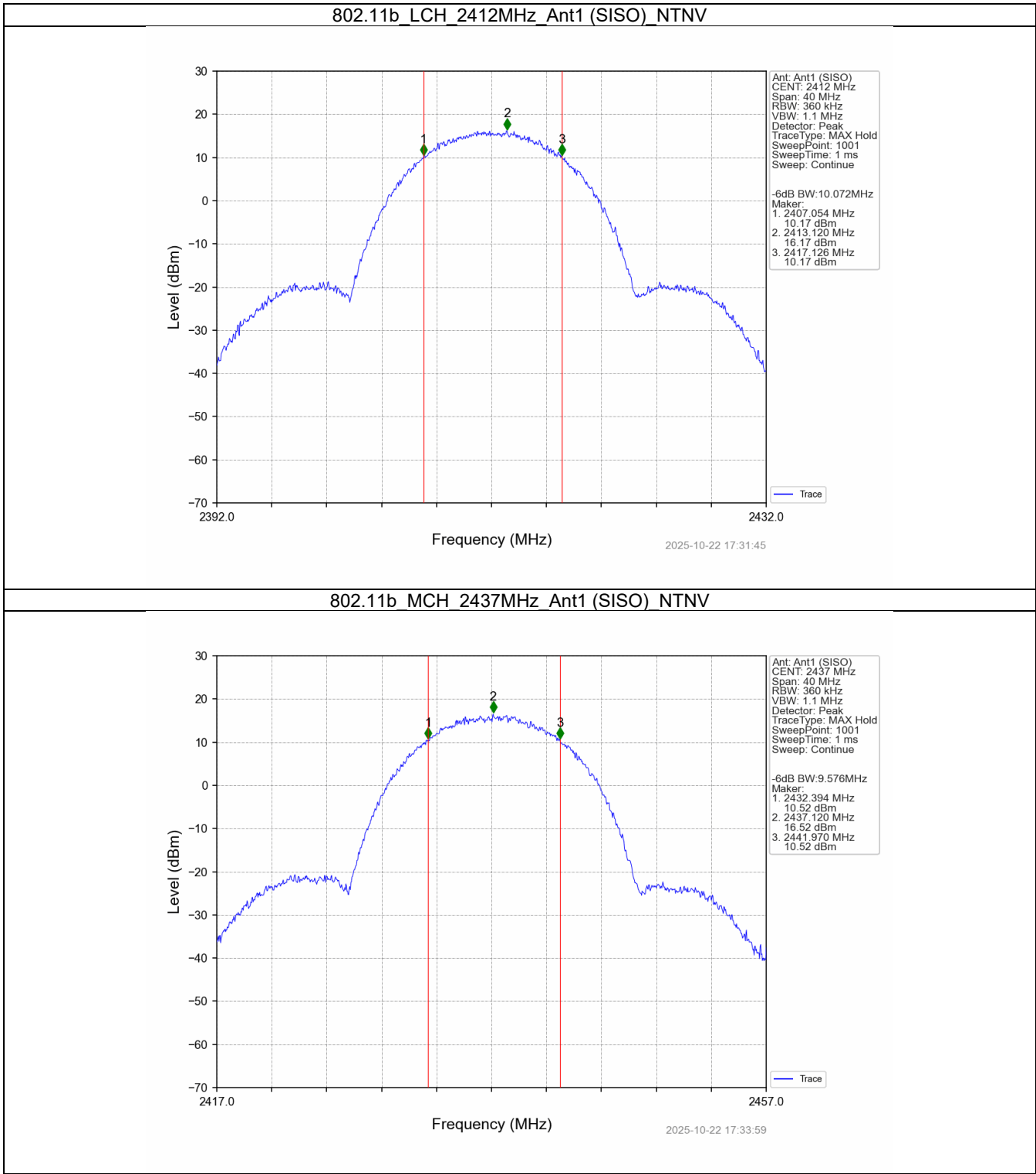
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



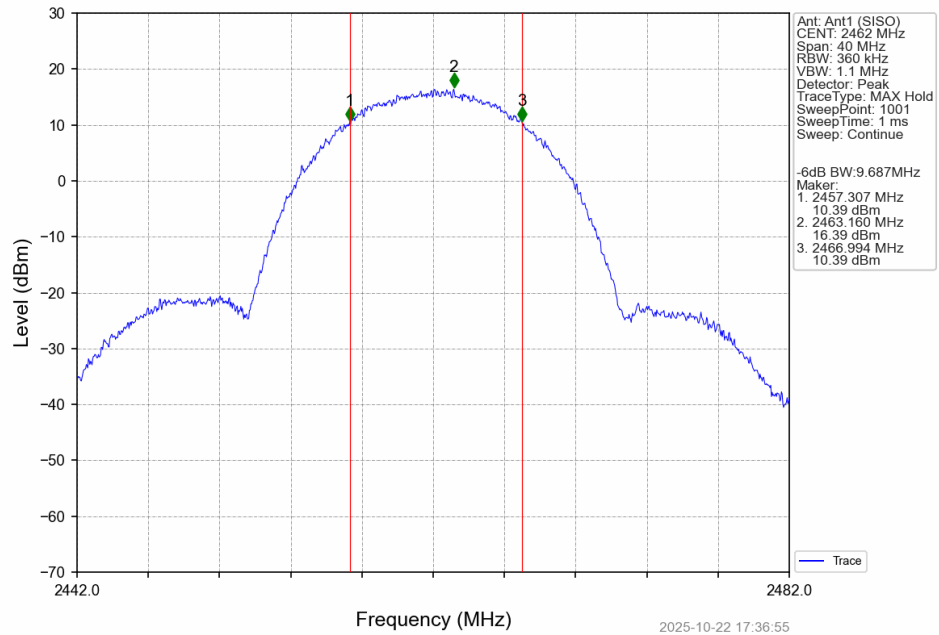
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



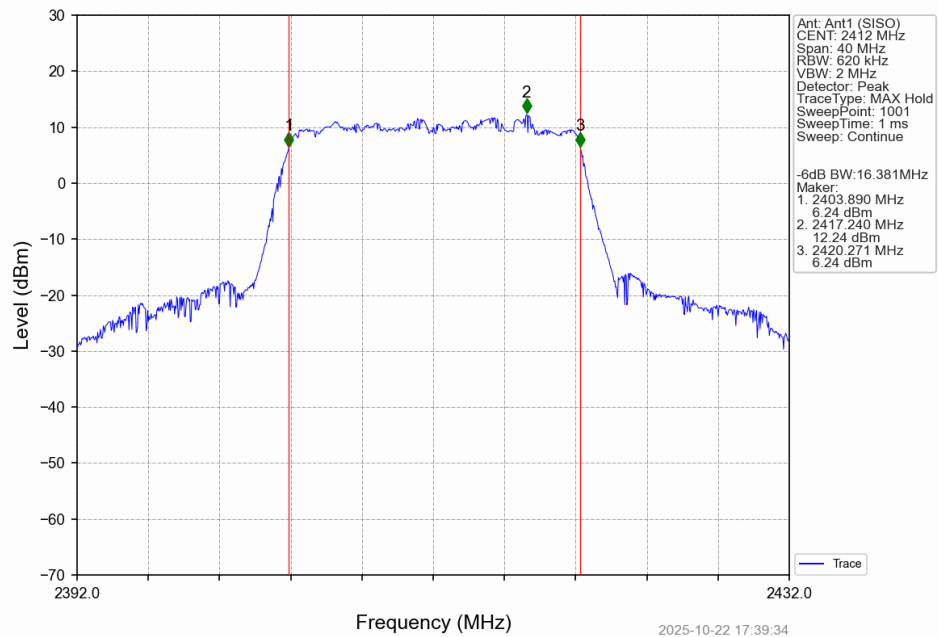
2.2.2 6dB BW



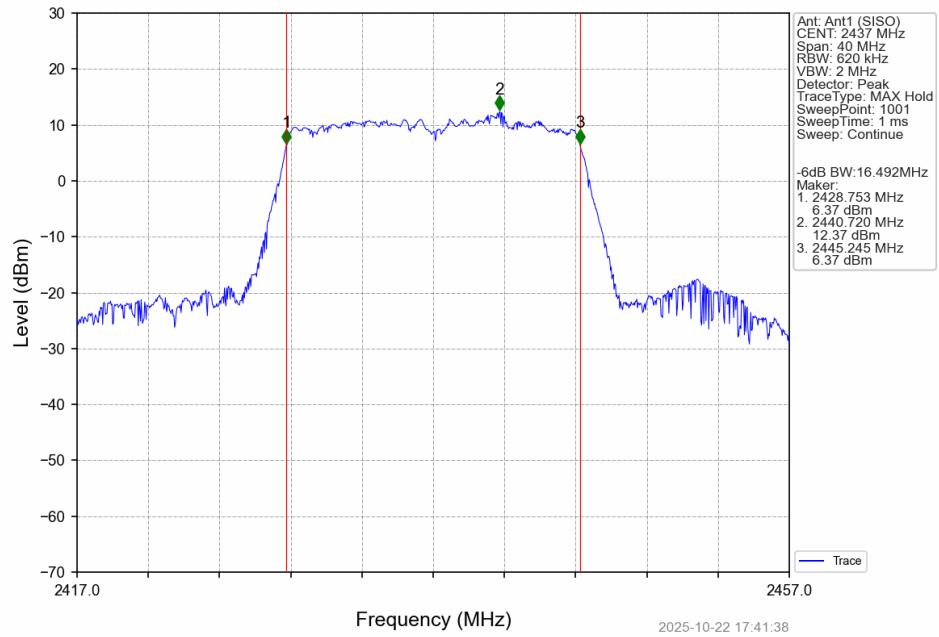
802.11b HCH 2462MHz Ant1 (SISO) NTN



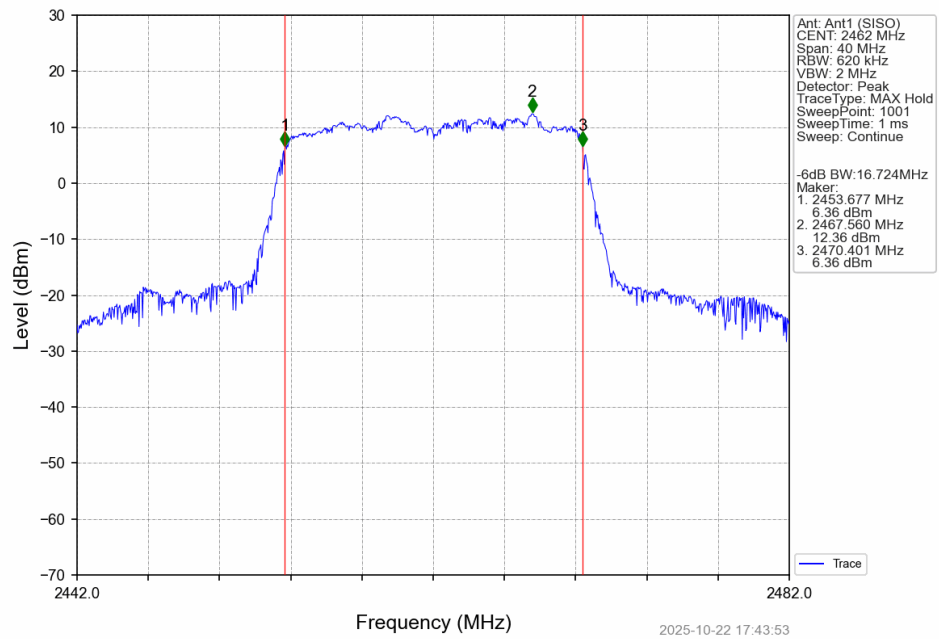
802.11g LCH 2412MHz Ant1 (SISO) NTN



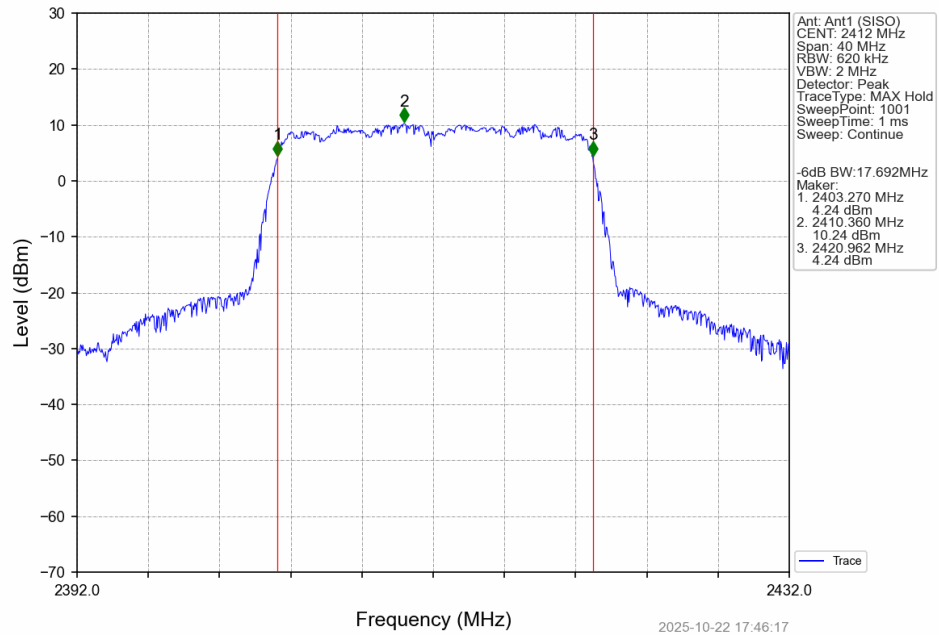
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



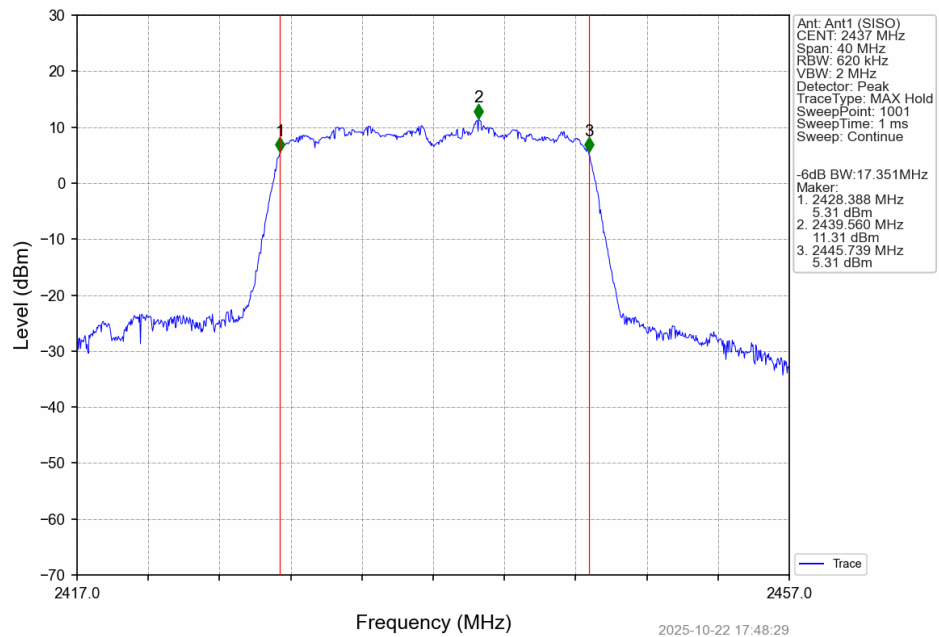
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



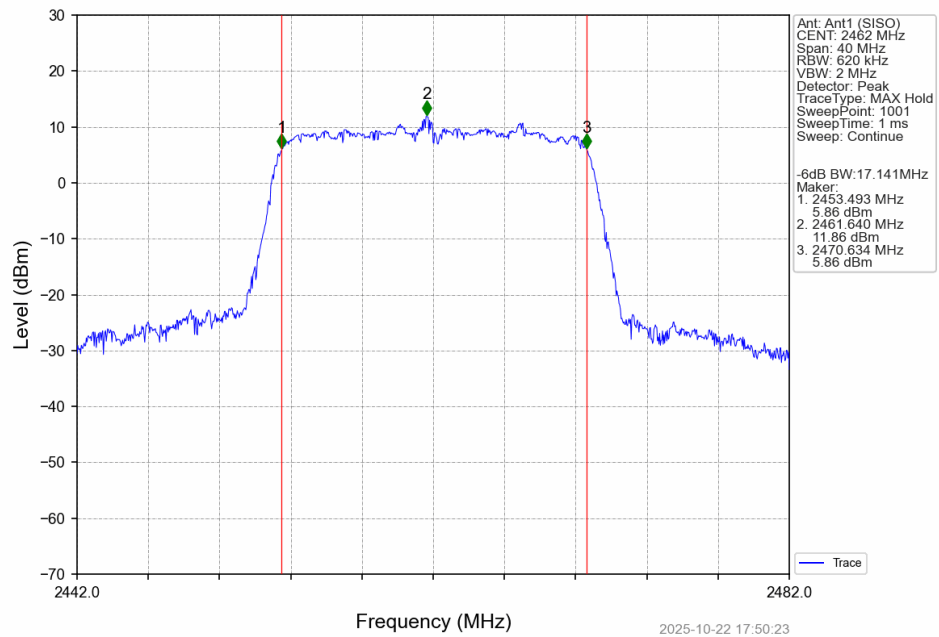
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



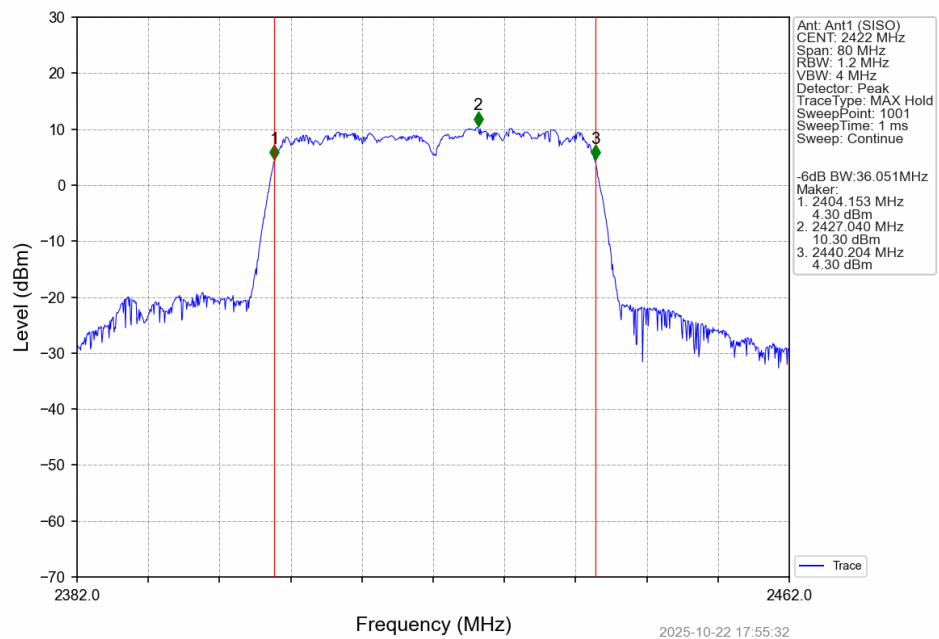
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



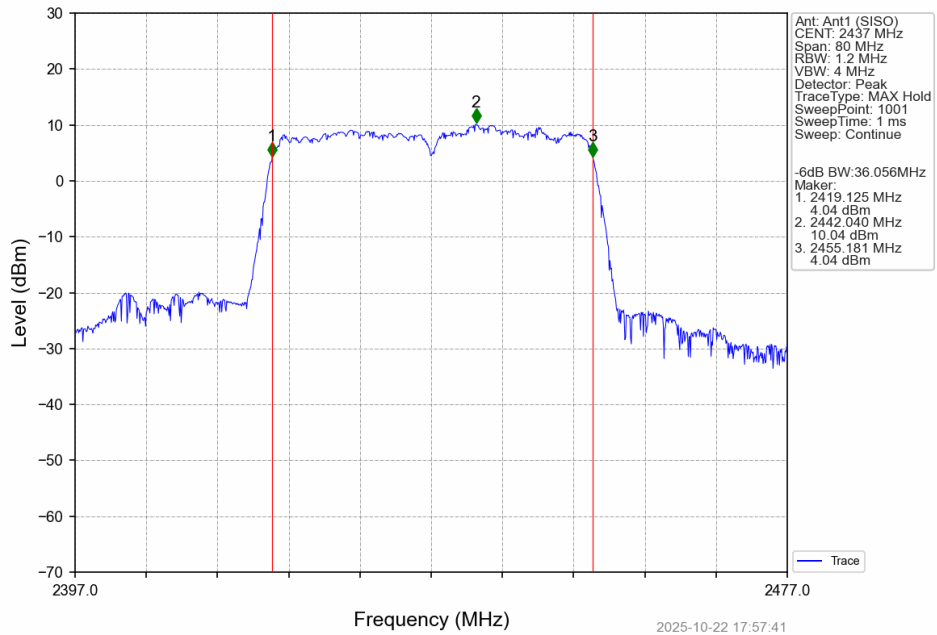
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



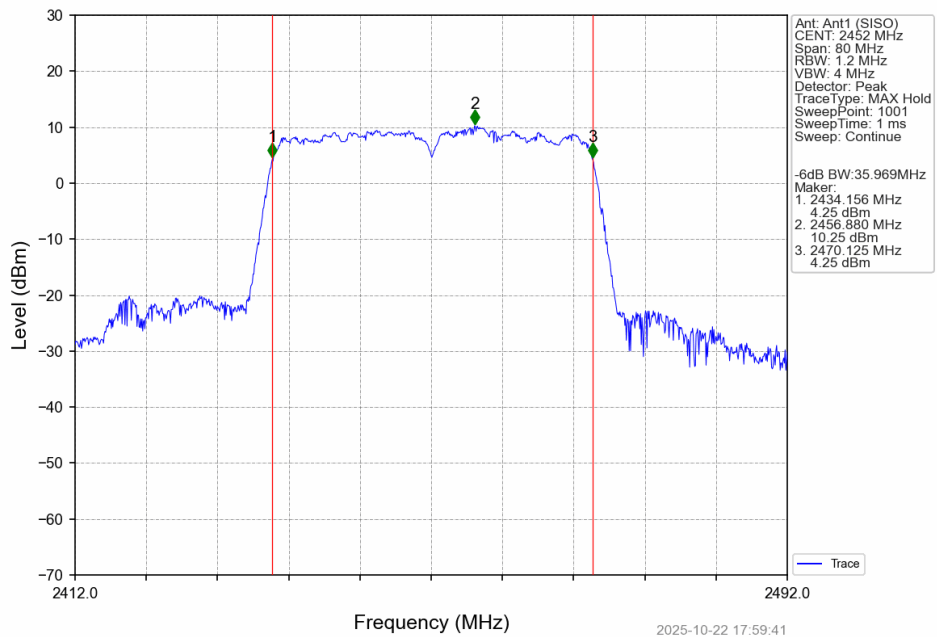
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	27.38	<=30	Pass
		2437	27.27	<=30	Pass
		2462	27.32	<=30	Pass
802.11g	SISO	2412	24.33	<=30	Pass
		2437	24.34	<=30	Pass
		2462	24.63	<=30	Pass
802.11n (HT20)	SISO	2412	23.13	<=30	Pass
		2437	23.15	<=30	Pass
		2462	23.32	<=30	Pass
802.11n (HT40)	SISO	2422	22.77	<=30	Pass
		2437	22.40	<=30	Pass
		2452	22.51	<=30	Pass

4. Maximum Power Spectral Density

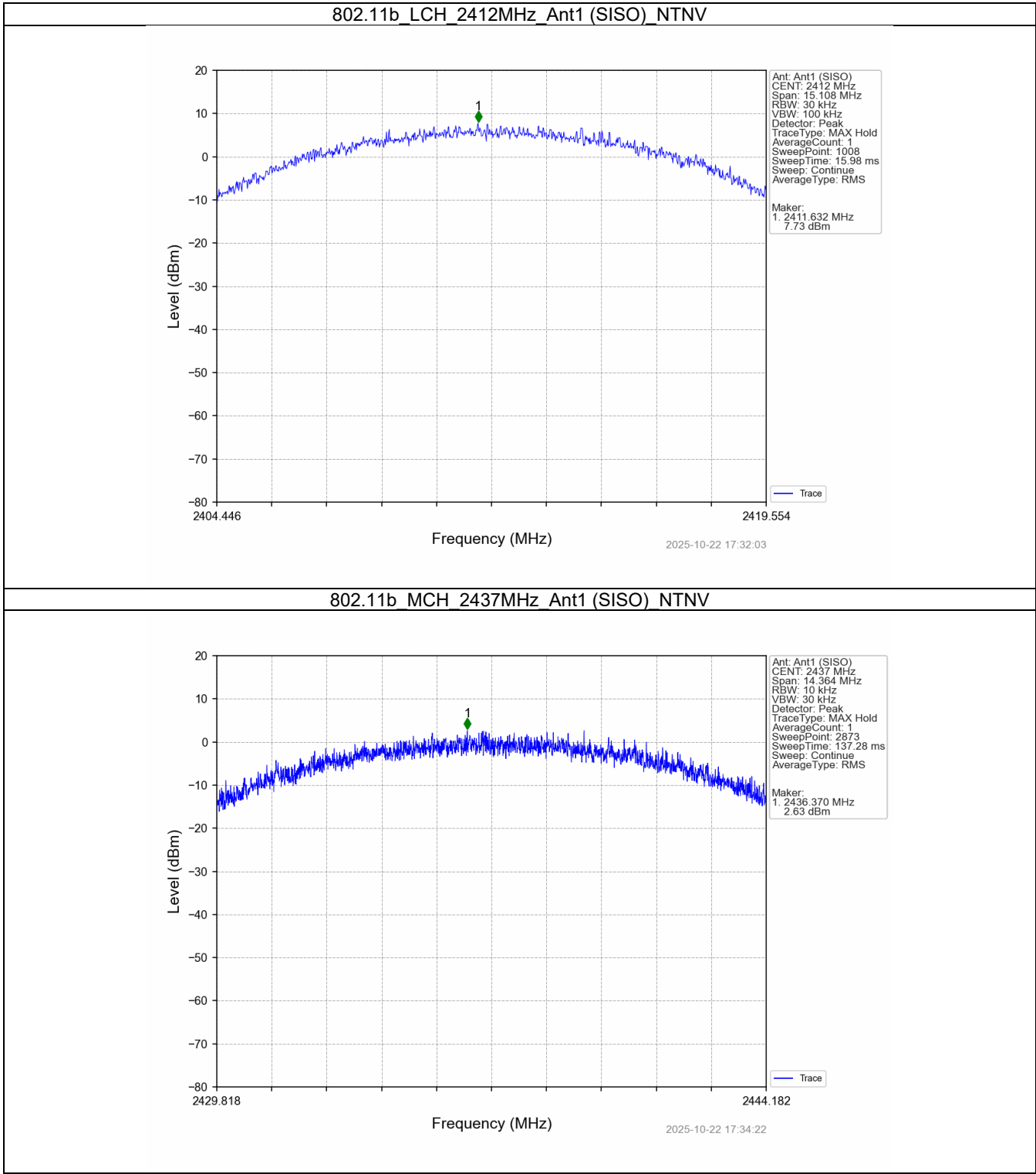
4.1 Test Result

4.1.1 PSD

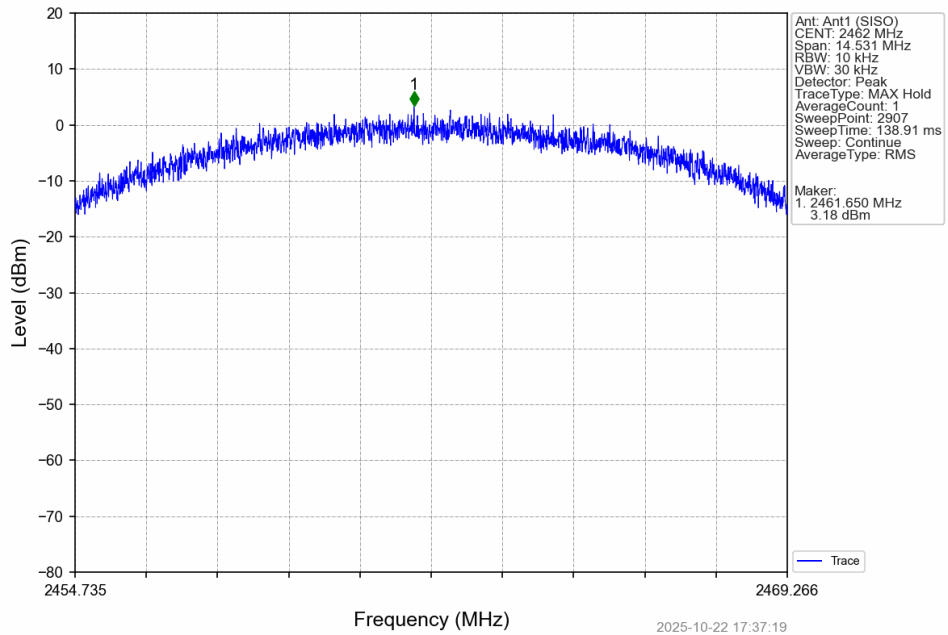
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	7.73	<=8	Pass
		2437	2.63	<=8	Pass
		2462	3.18	<=8	Pass
802.11g	SISO	2412	6.08	<=8	Pass
		2437	6.26	<=8	Pass
		2462	6.21	<=8	Pass
802.11n (HT20)	SISO	2412	5.08	<=8	Pass
		2437	4.96	<=8	Pass
		2462	5.14	<=8	Pass
802.11n (HT40)	SISO	2422	1.24	<=8	Pass
		2437	1.07	<=8	Pass
		2452	1.17	<=8	Pass

4.2 Test Graph

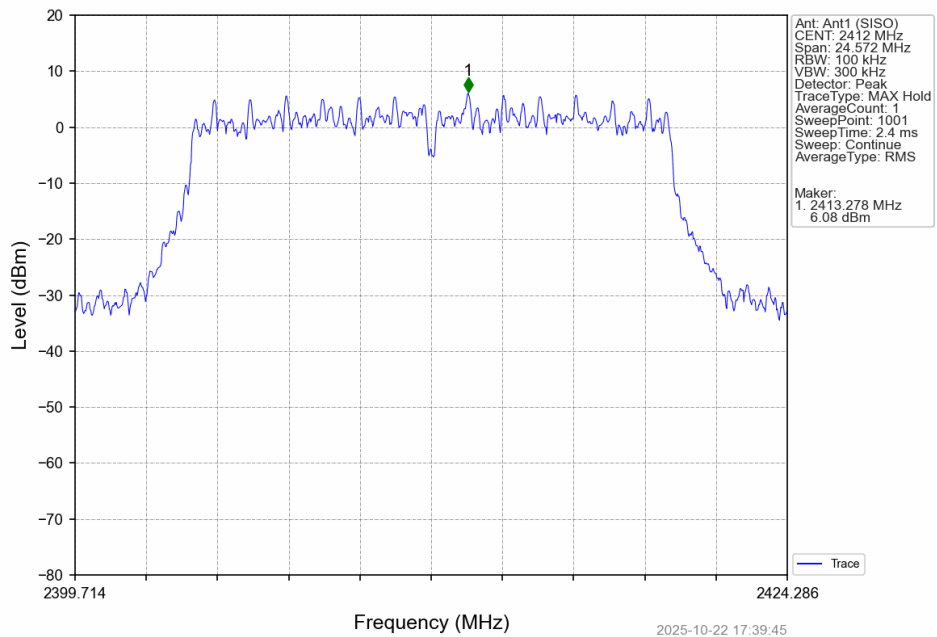
4.2.1 PSD



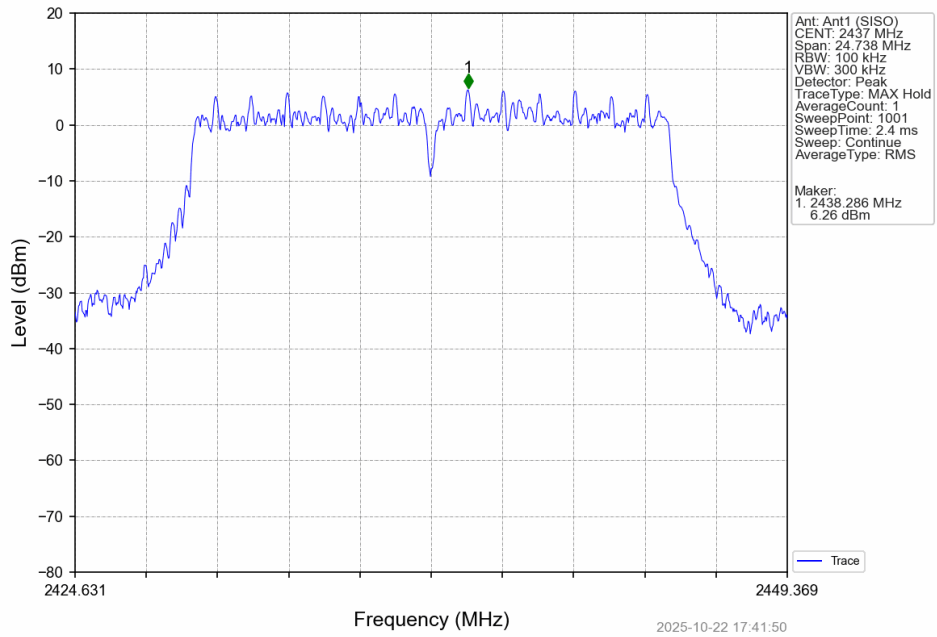
802.11b HCH 2462MHz Ant1 (SISO) NTN



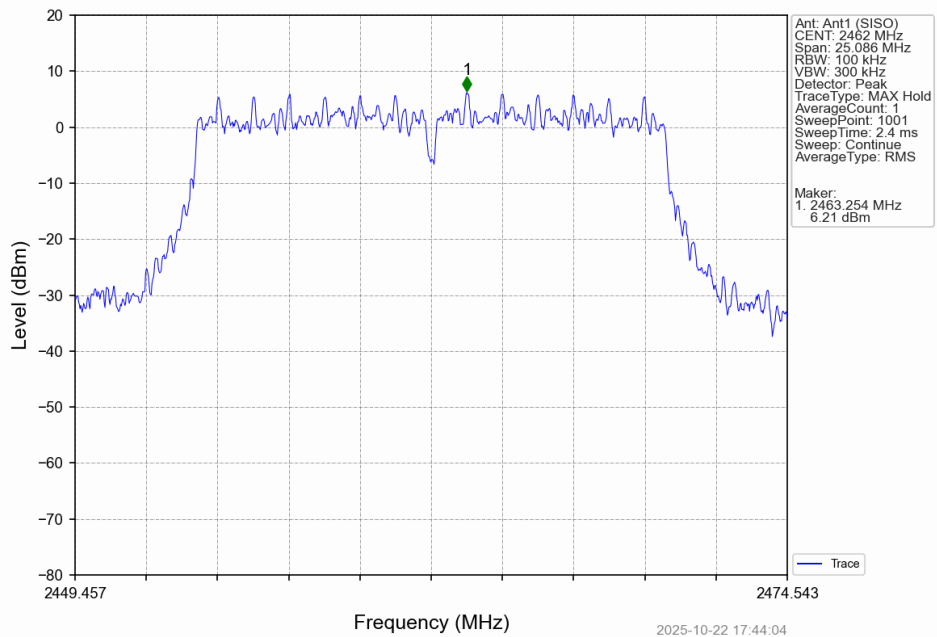
802.11g LCH 2412MHz Ant1 (SISO) NTN



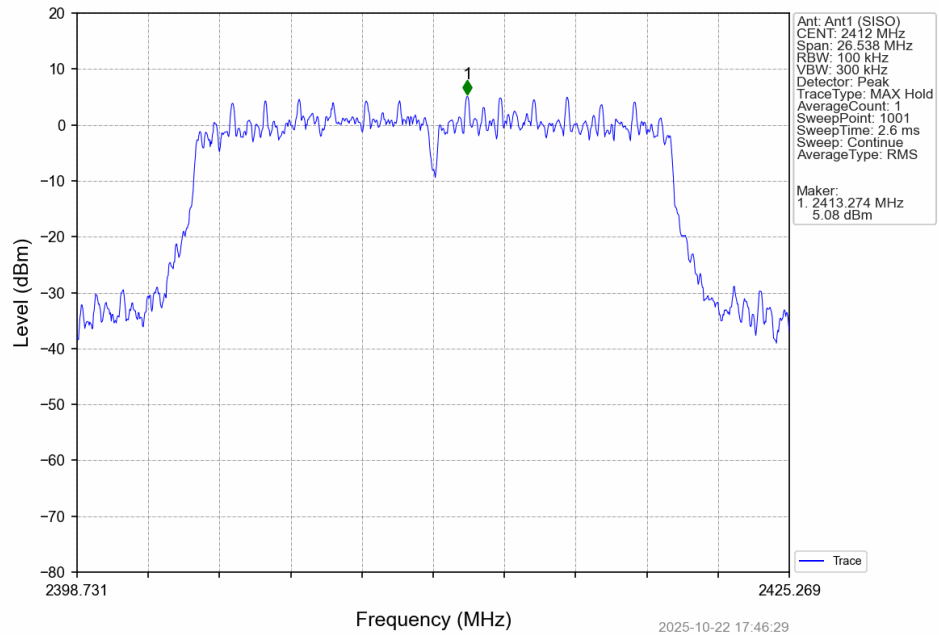
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



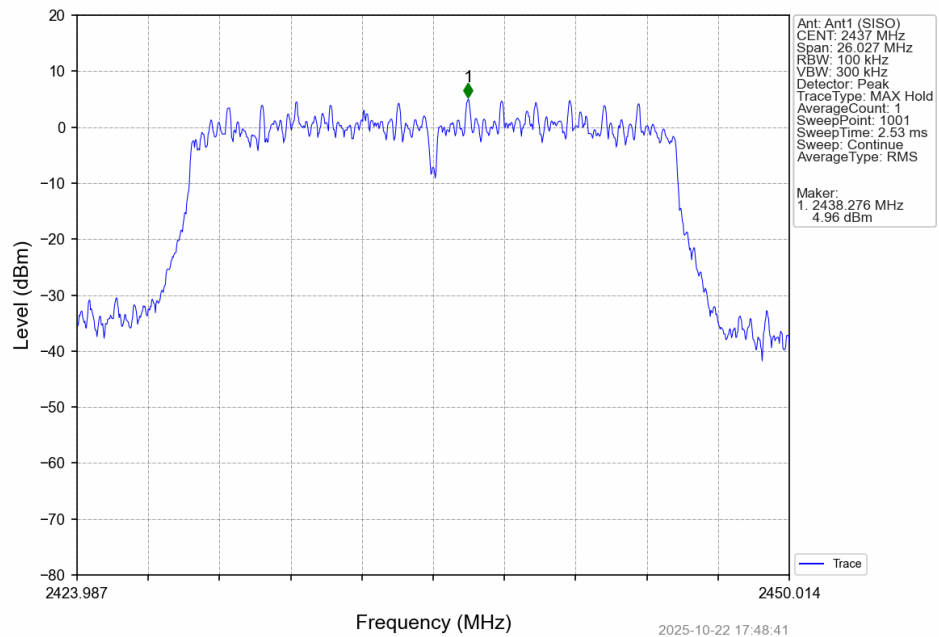
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



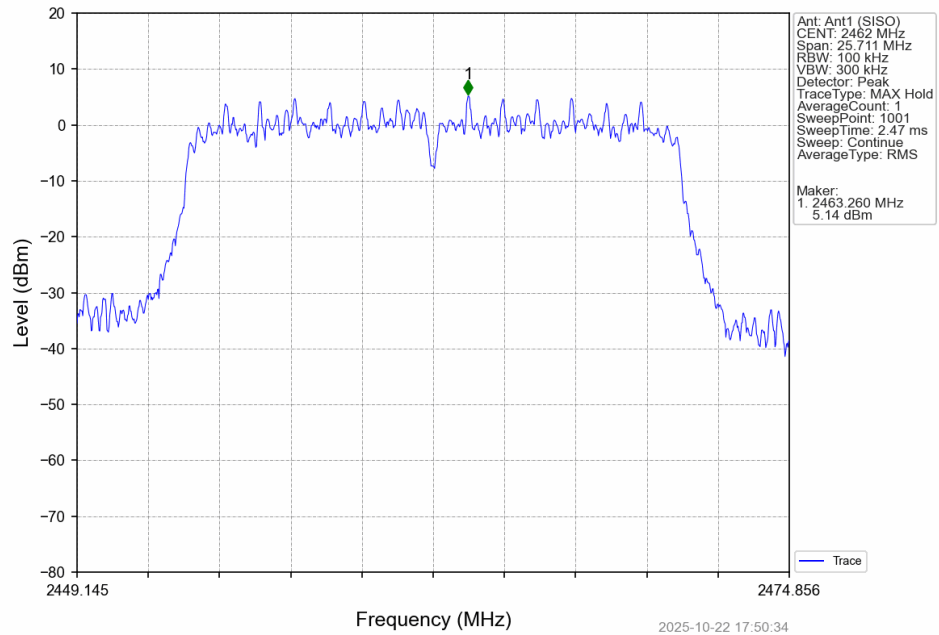
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



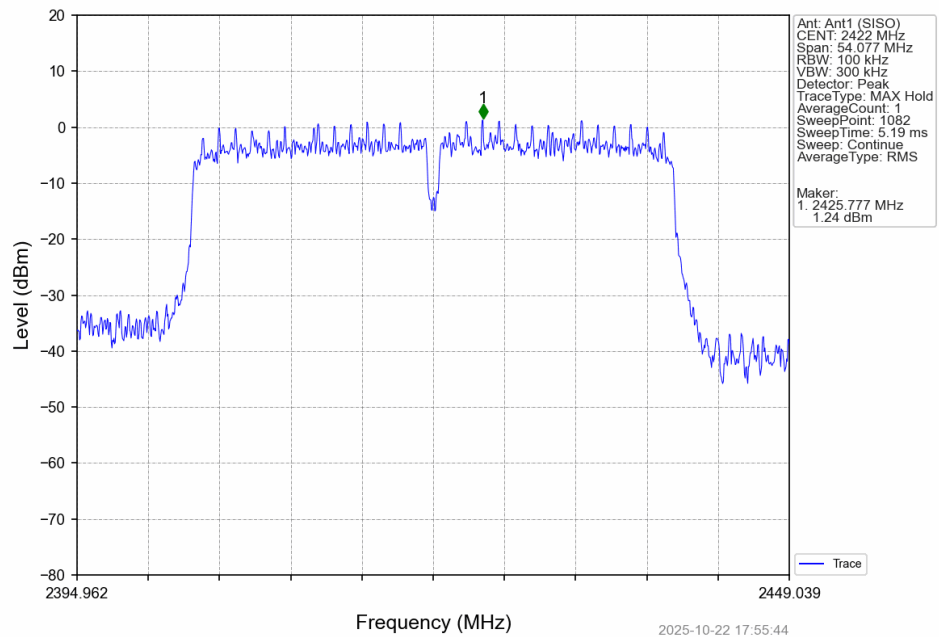
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



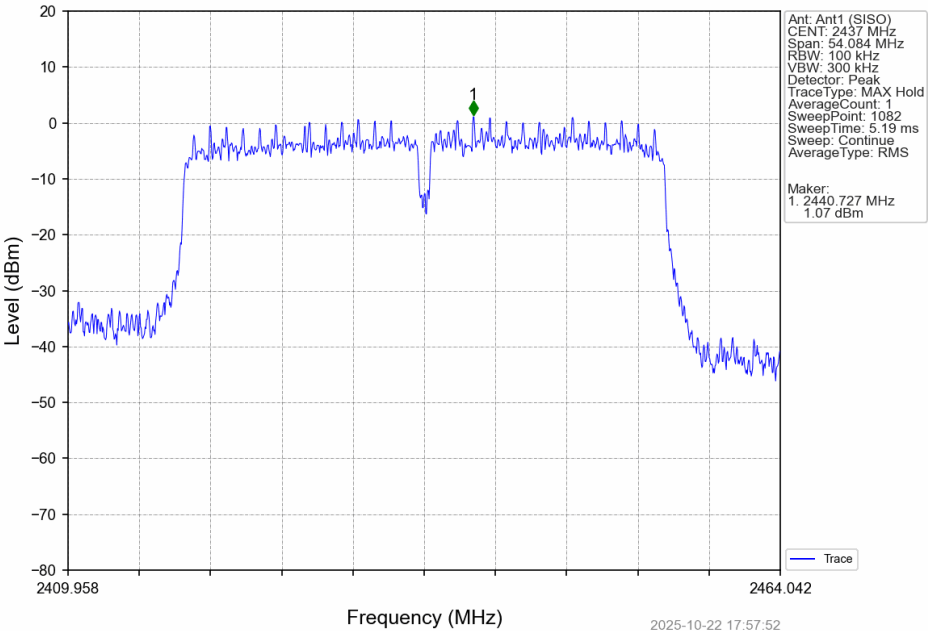
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



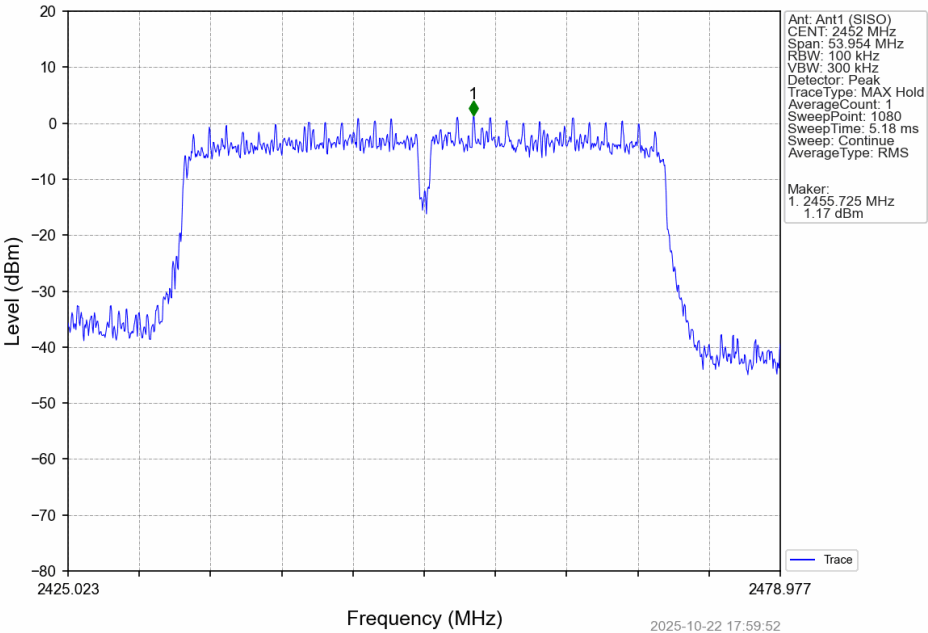
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	12.47
		2437	1	13.02
		2462	1	12.83
802.11g	SISO	2412	1	6.08
		2437	1	6.30
		2462	1	6.32
802.11n (HT20)	SISO	2412	1	5.33
		2437	1	5.00
		2462	1	5.15
802.11n (HT40)	SISO	2422	1	1.29
		2437	1	1.08
		2452	1	1.41

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

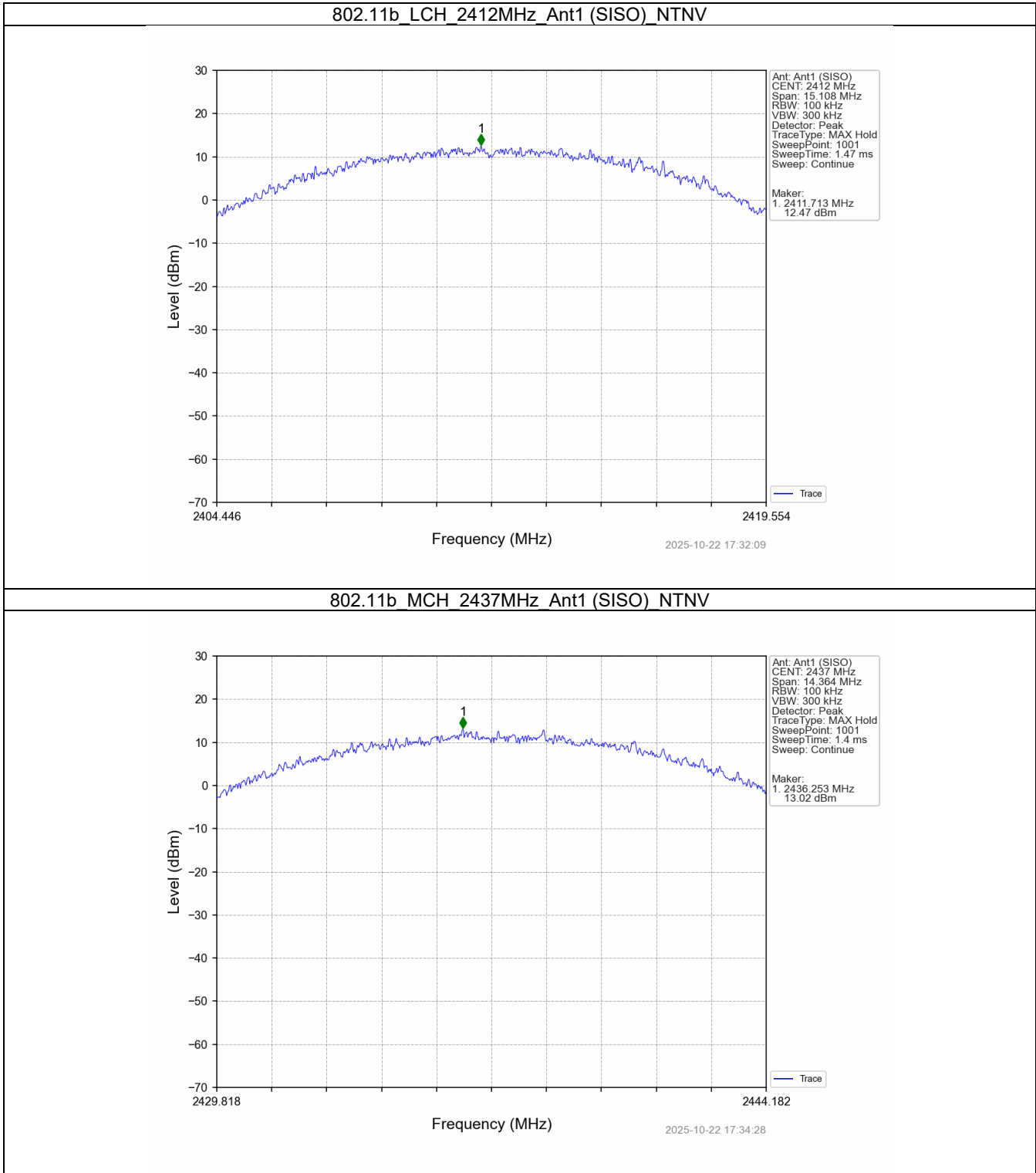
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	12.47	-7.53	Pass
		2437	1	13.02	-6.98	Pass
		2462	1	12.83	-7.17	Pass
802.11g	SISO	2412	1	6.08	-13.92	Pass
		2437	1	6.30	-13.70	Pass
		2462	1	6.32	-13.68	Pass
802.11n (HT20)	SISO	2412	1	5.33	-14.67	Pass
		2437	1	5.00	-15.00	Pass
		2462	1	5.15	-14.85	Pass
802.11n (HT40)	SISO	2422	1	1.29	-18.71	Pass
		2437	1	1.08	-18.92	Pass
		2452	1	1.41	-18.59	Pass

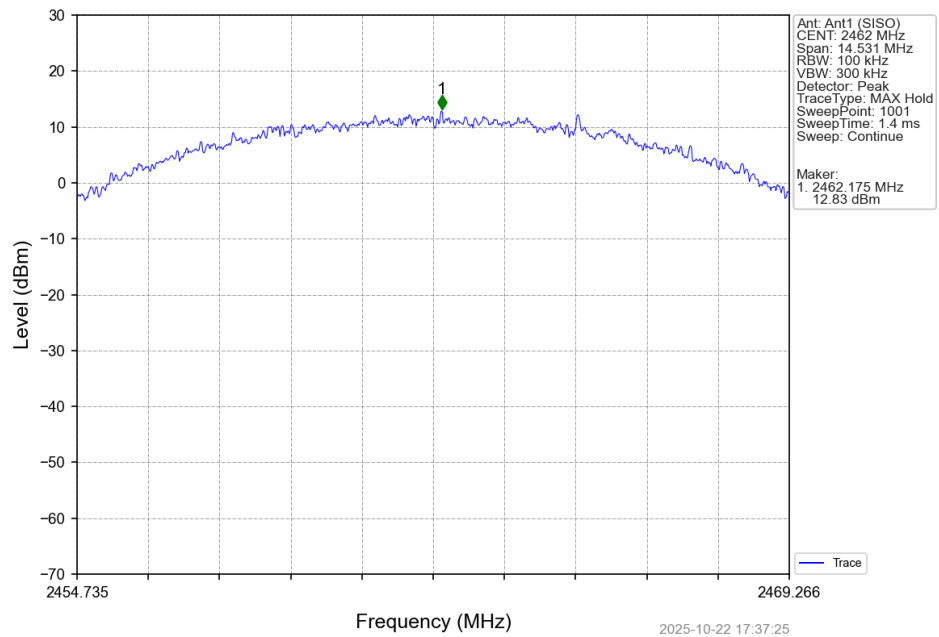
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

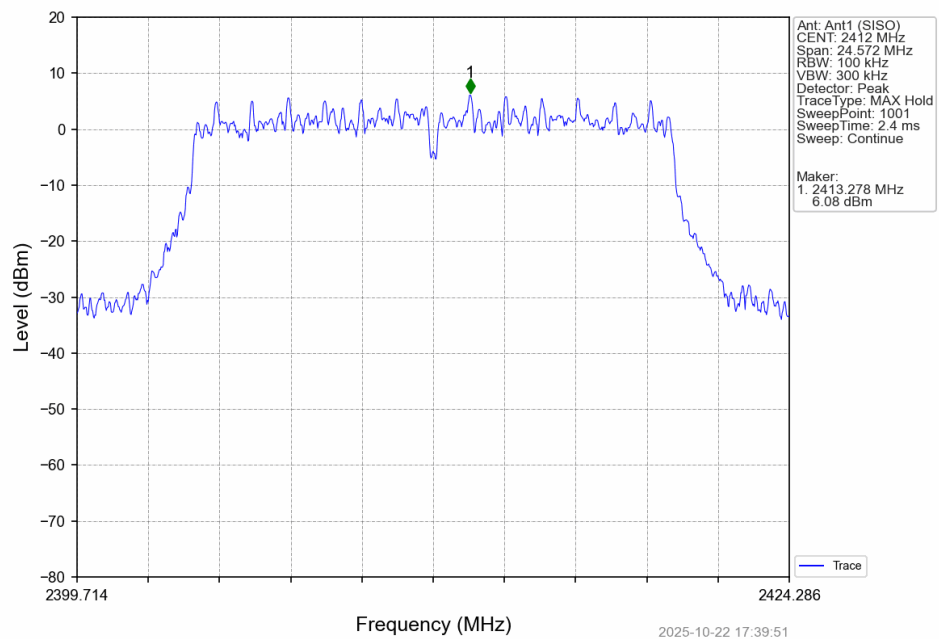
5.2.1 Ref



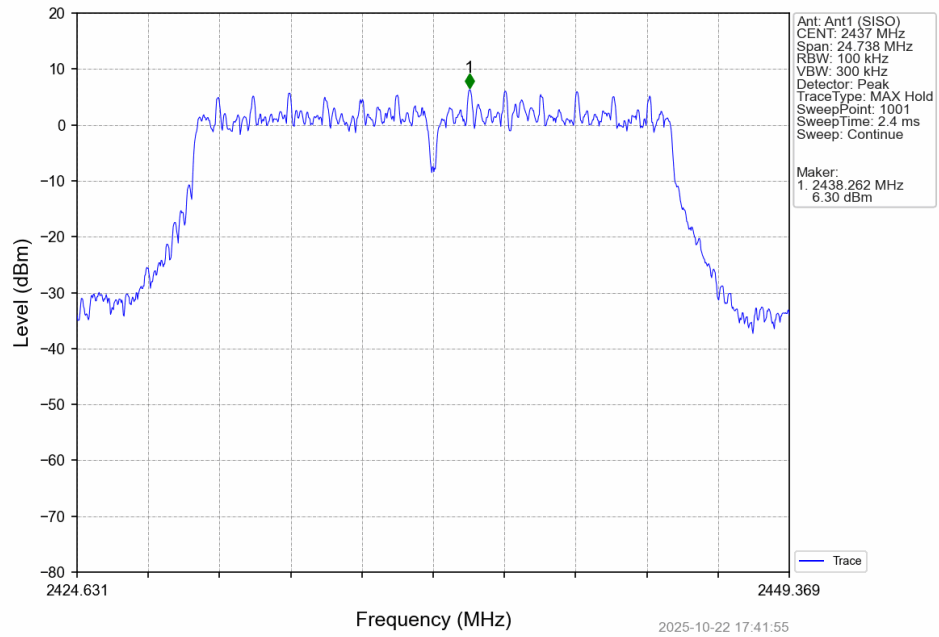
802.11b HCH 2462MHz Ant1 (SISO) NTN



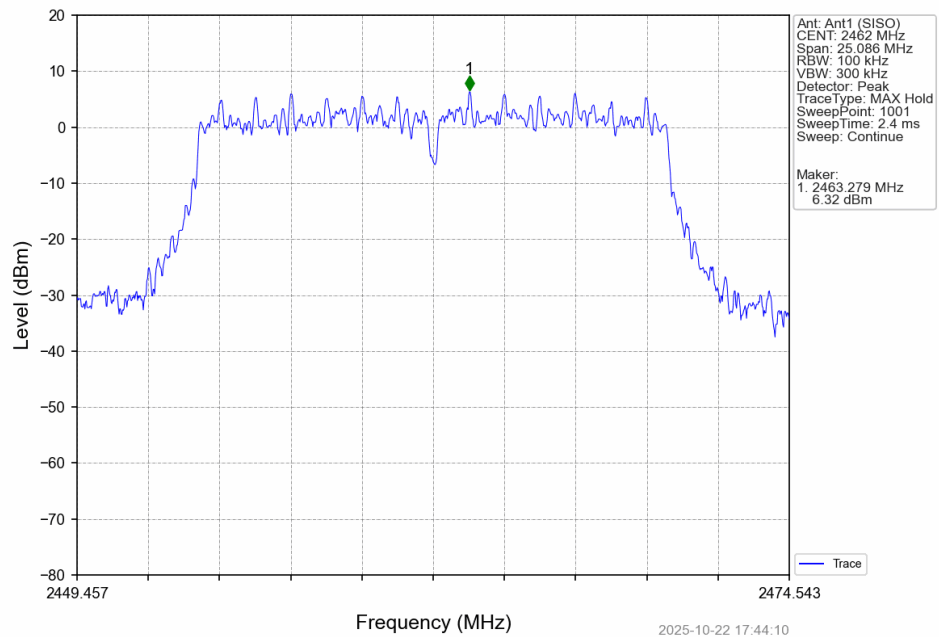
802.11g LCH 2412MHz Ant1 (SISO) NTN



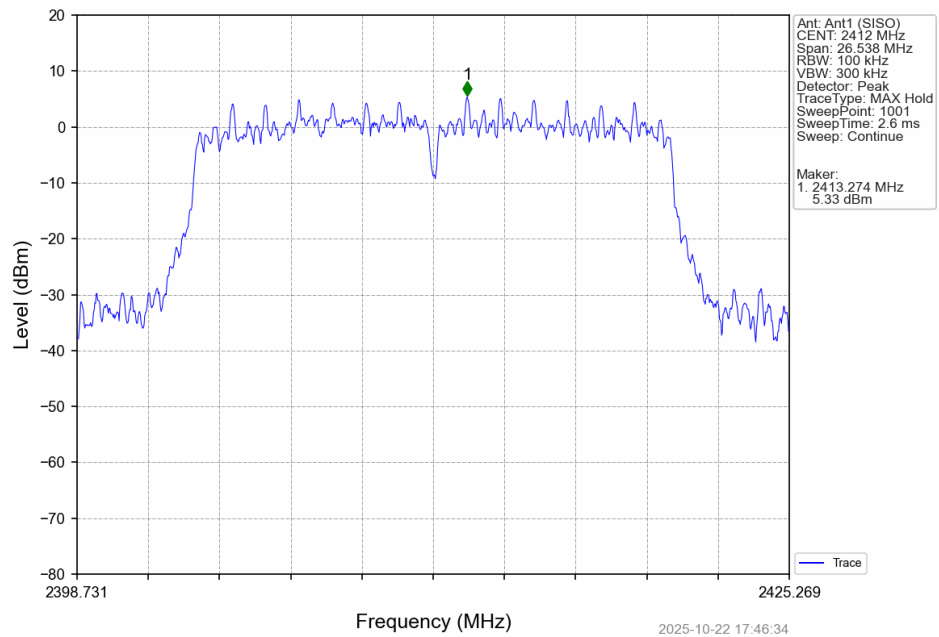
802.11g MCH 2437MHz Ant1 (SISO) NTN



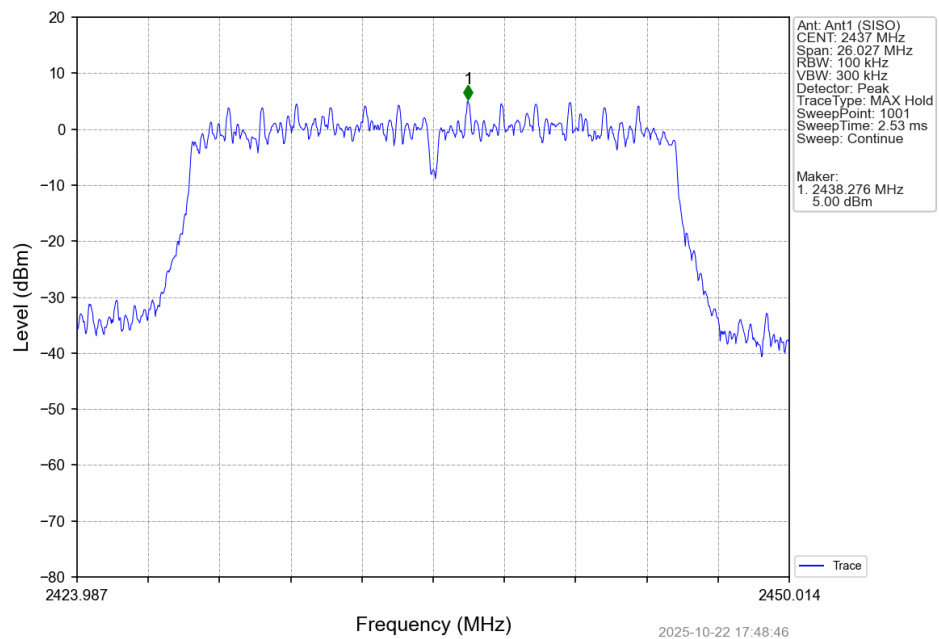
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



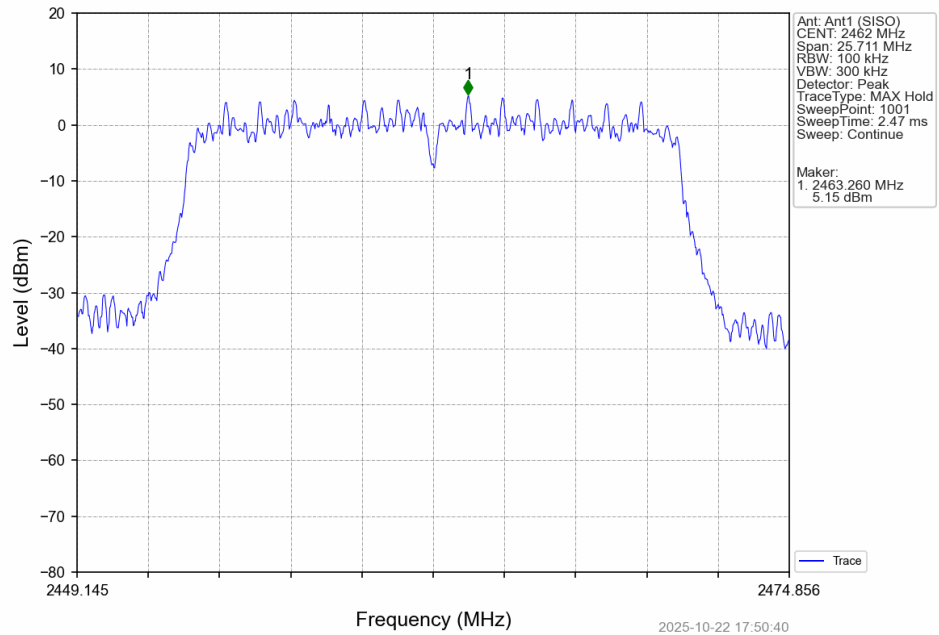
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



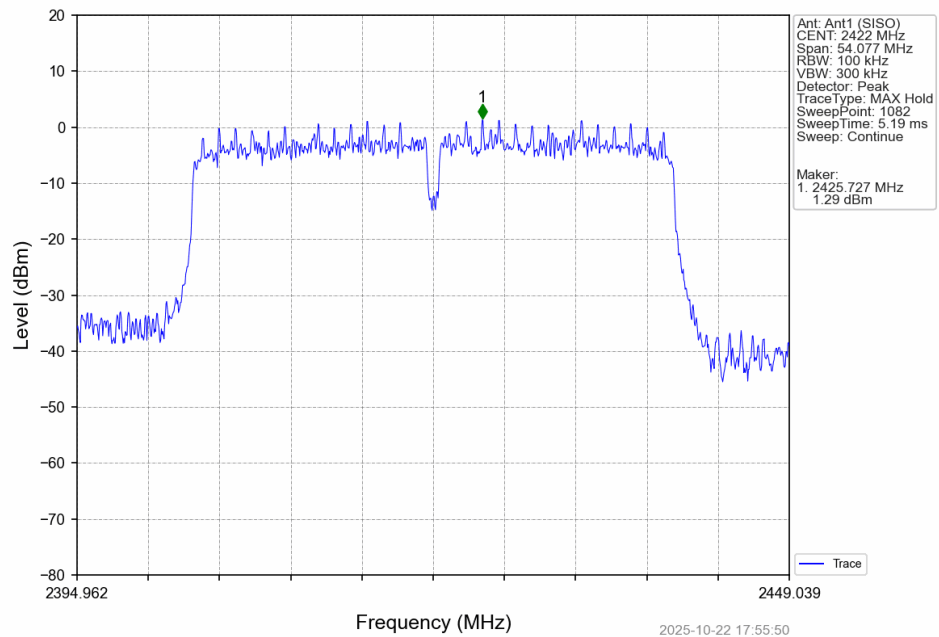
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



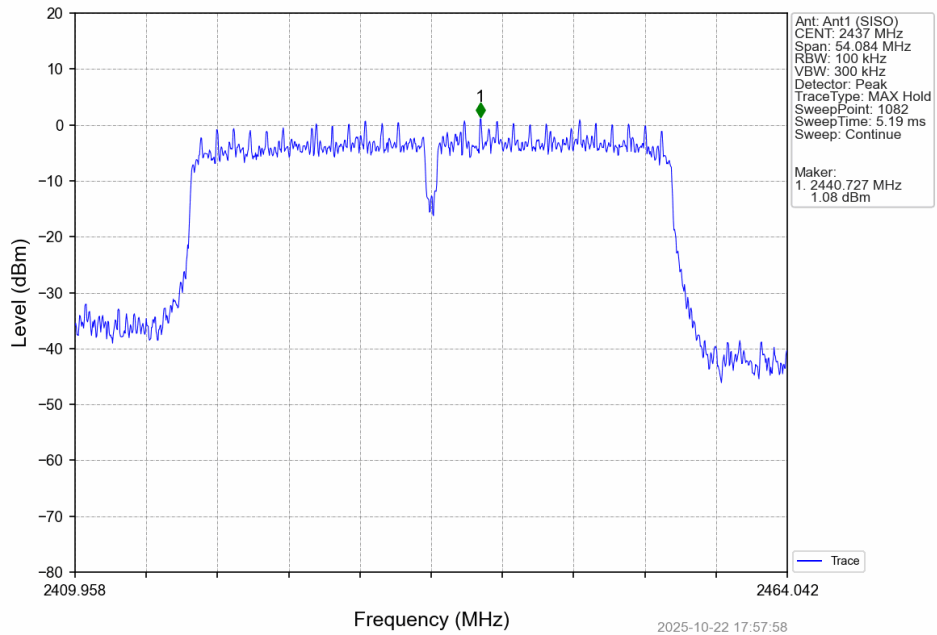
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



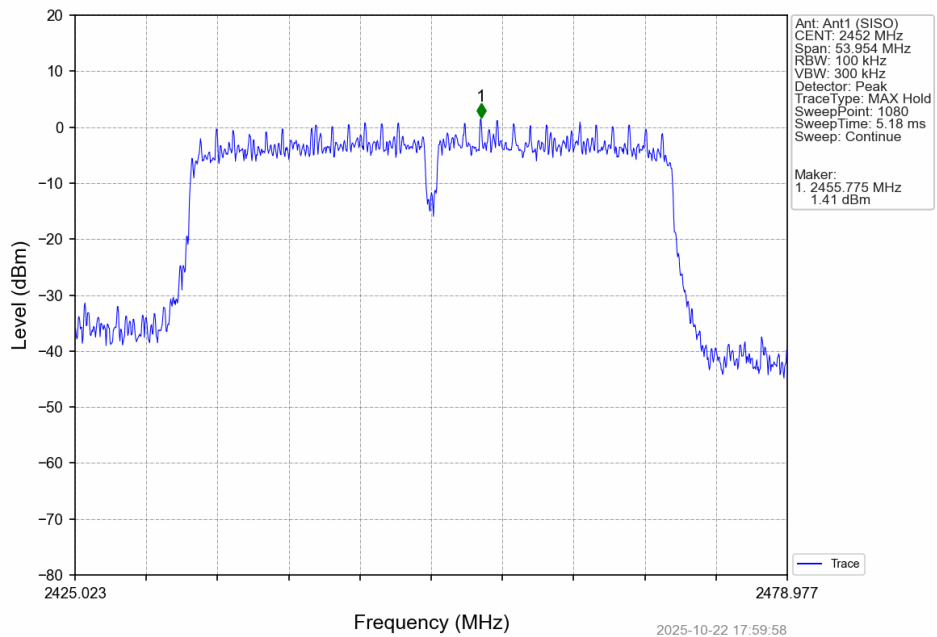
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



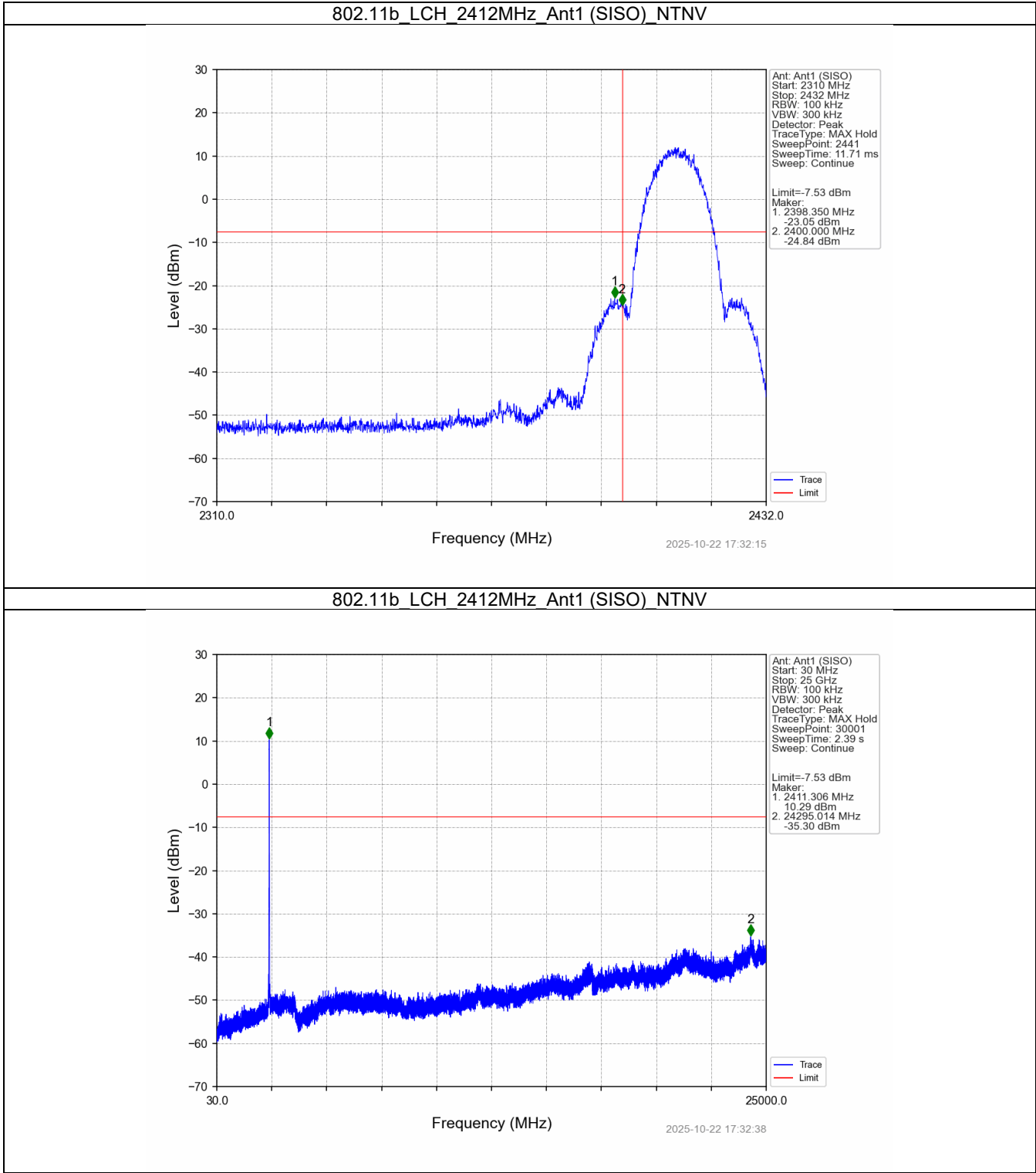
802.11n(HT40) MCH_2437MHz_Ant1 (SISO) NTN



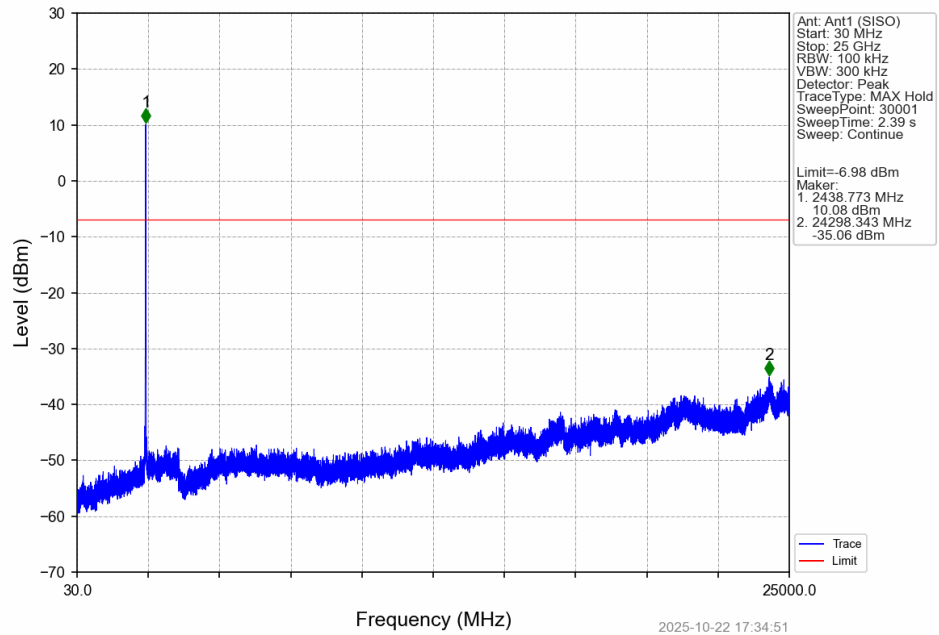
802.11n(HT40) HCH_2452MHz_Ant1 (SISO) NTN



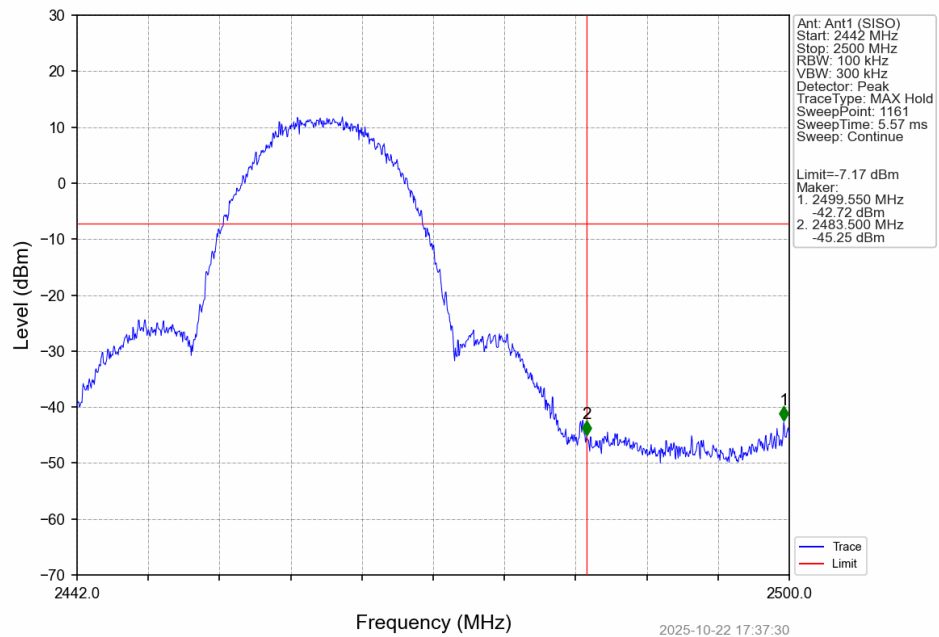
5.2.2 CSE



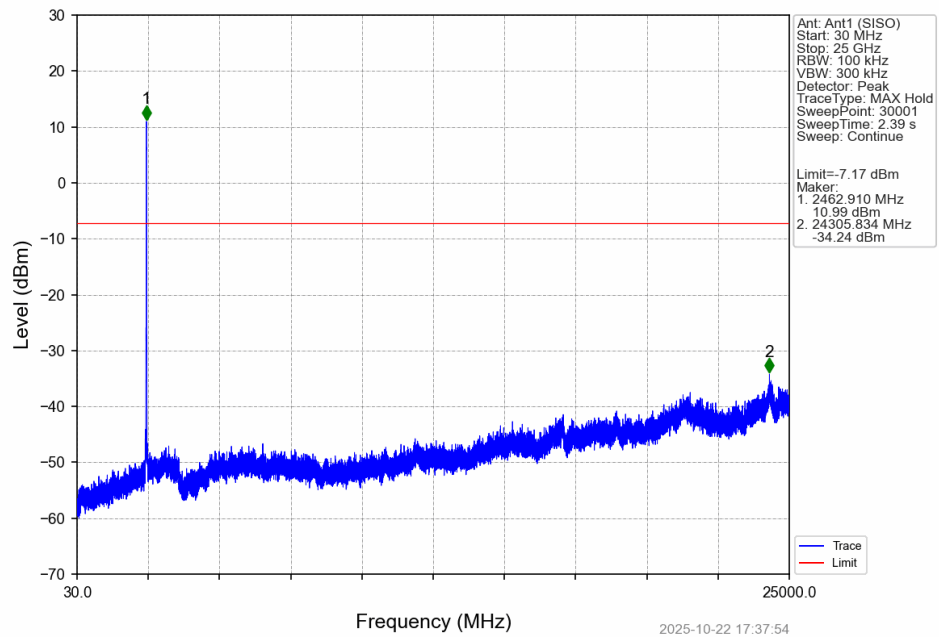
802.11b MCH 2437MHz Ant1 (SISO) NTN



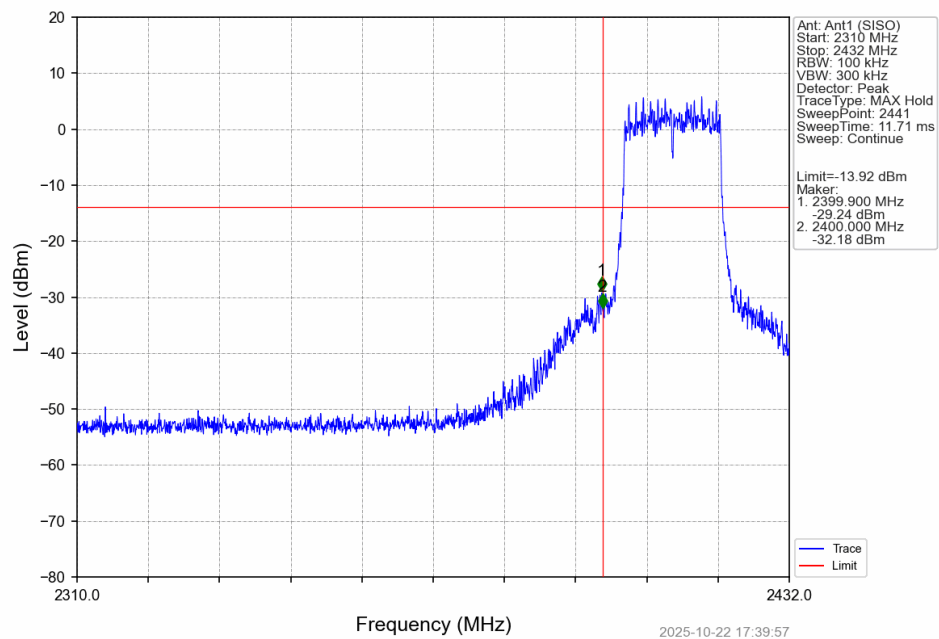
802.11b_HCH_2462MHz_Ant1 (SISO)_NTN



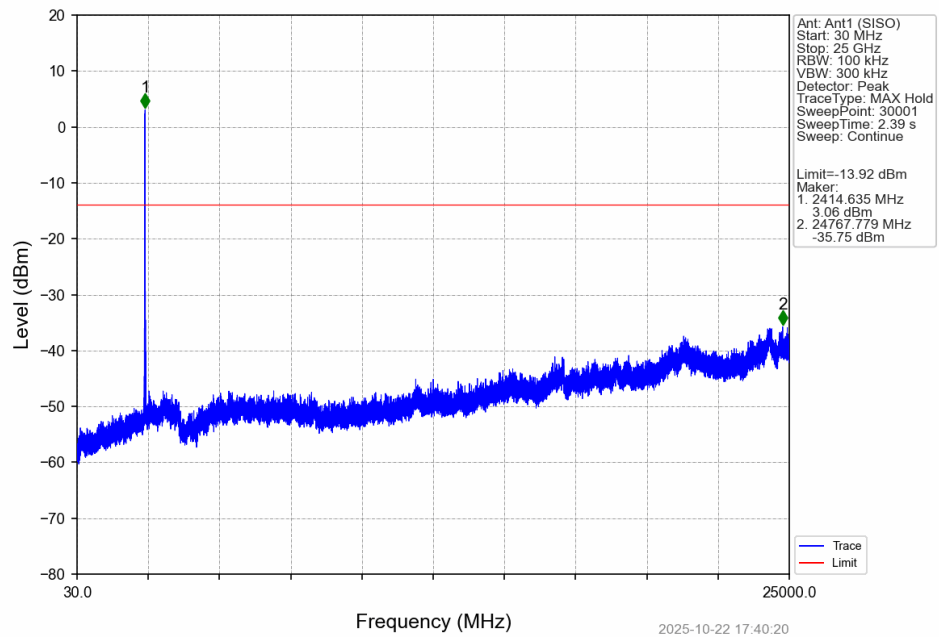
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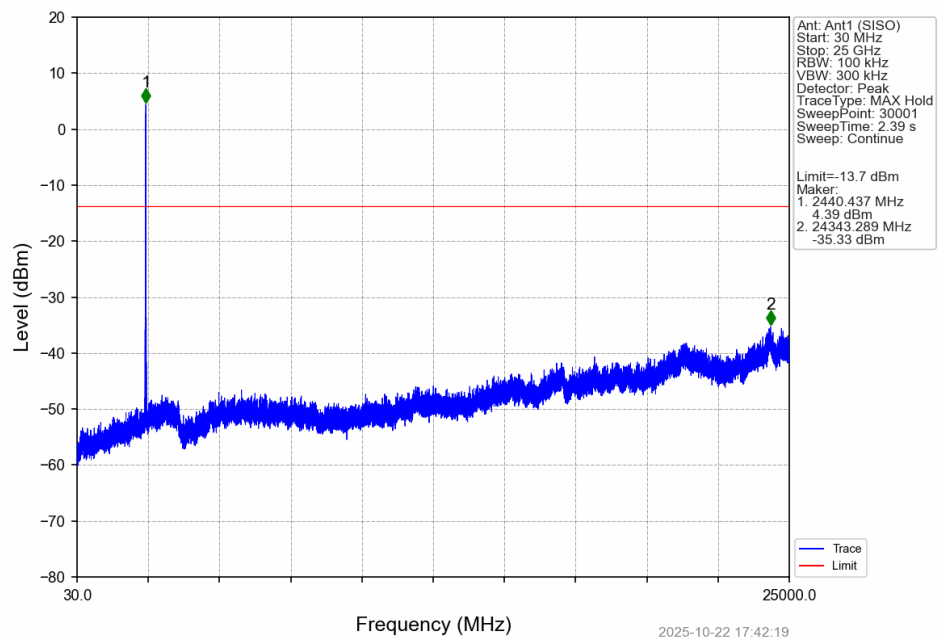
802.11g LCH 2412MHz Ant1 (SISO) NTN



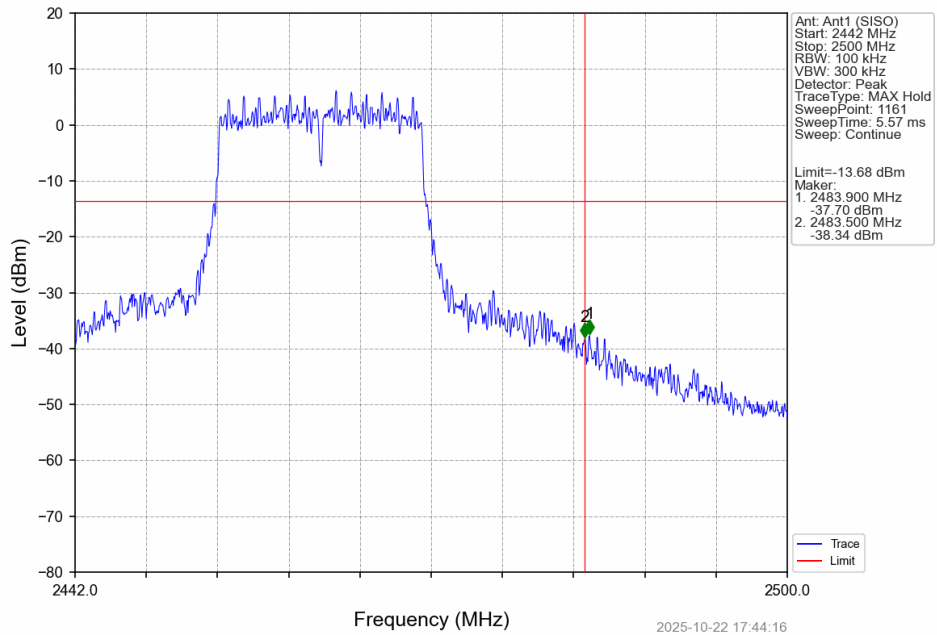
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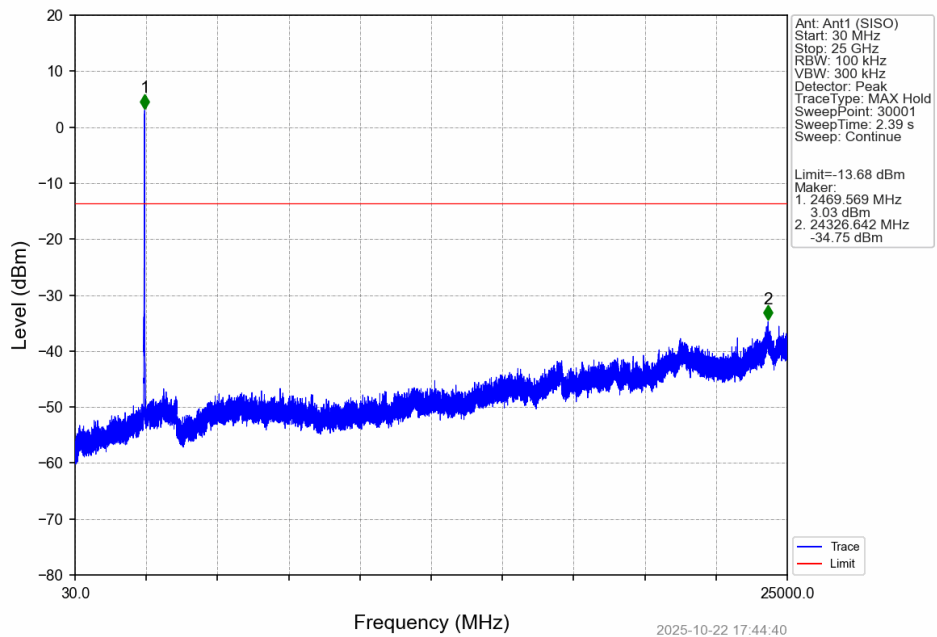
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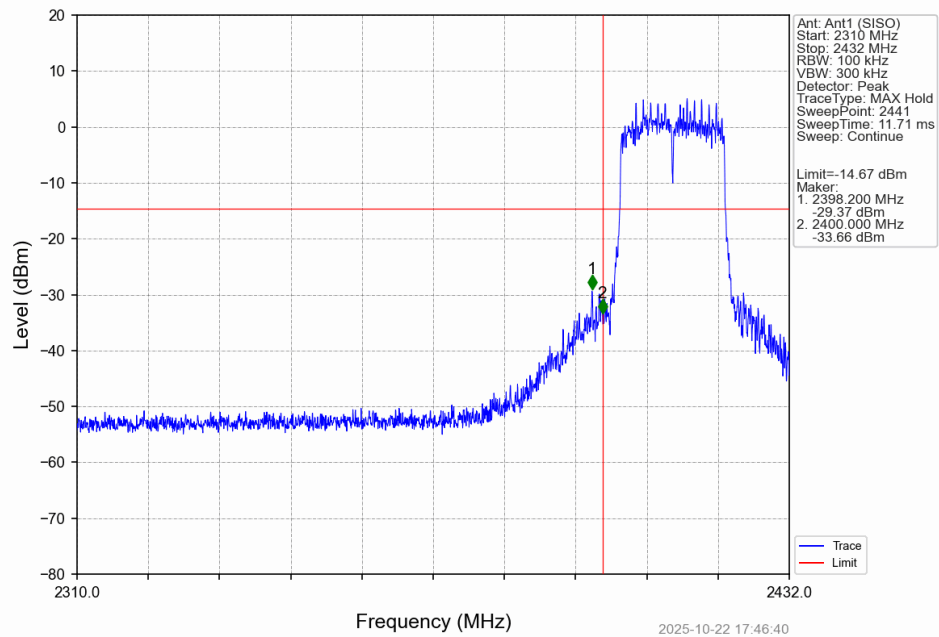
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



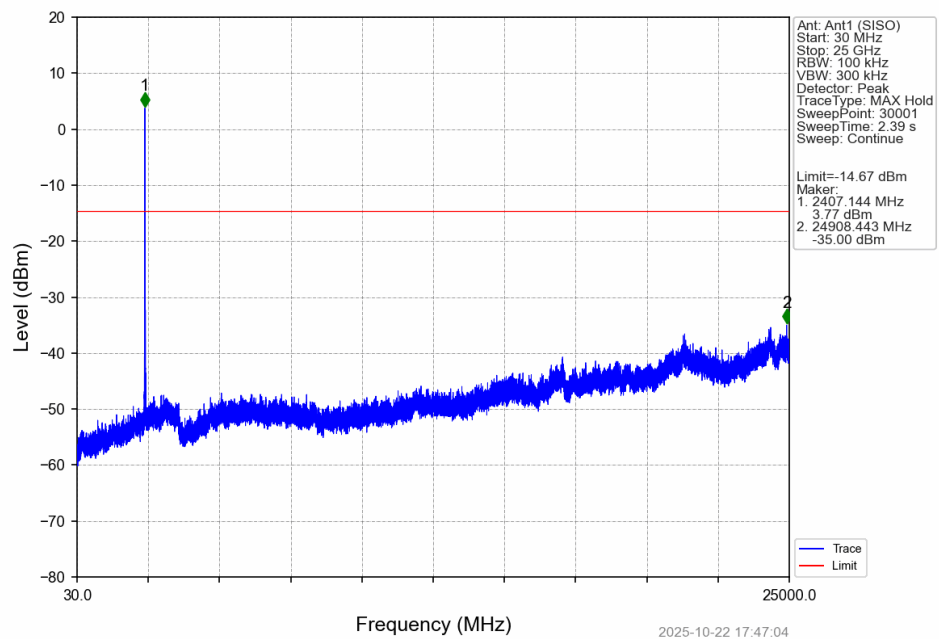
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



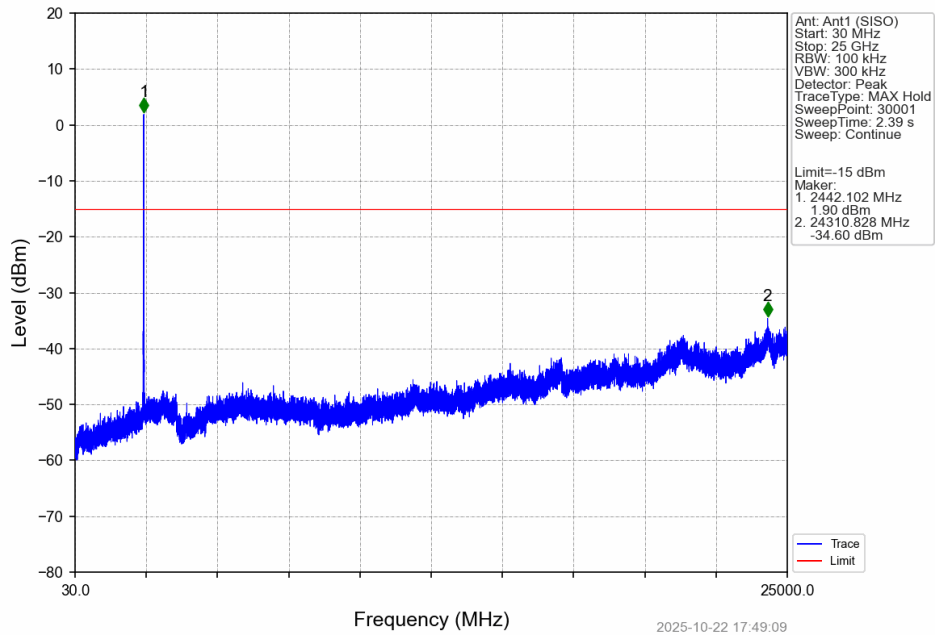
802.11n(HT20) LCH_2412MHz_Ant1 (SISO) NTN



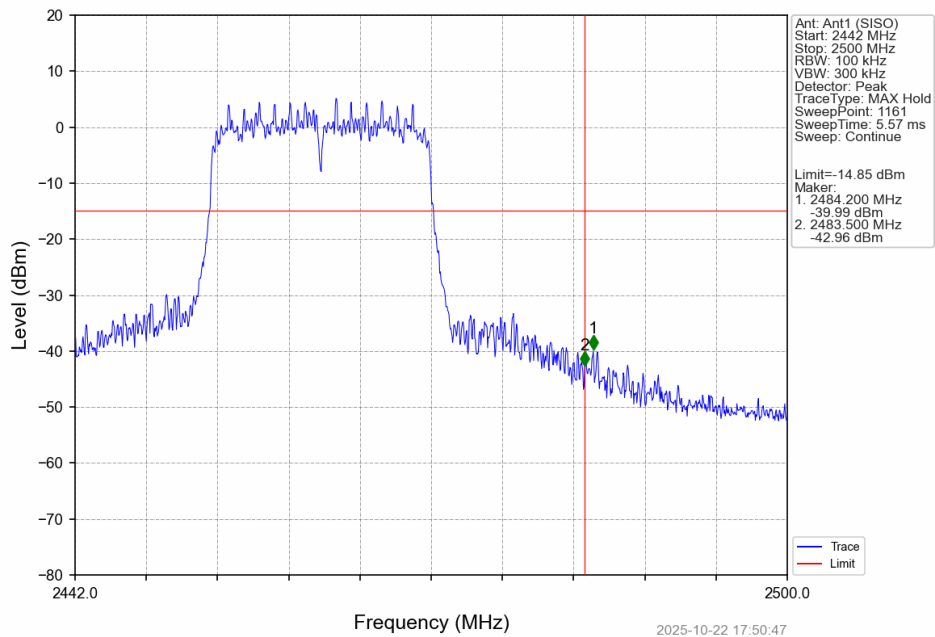
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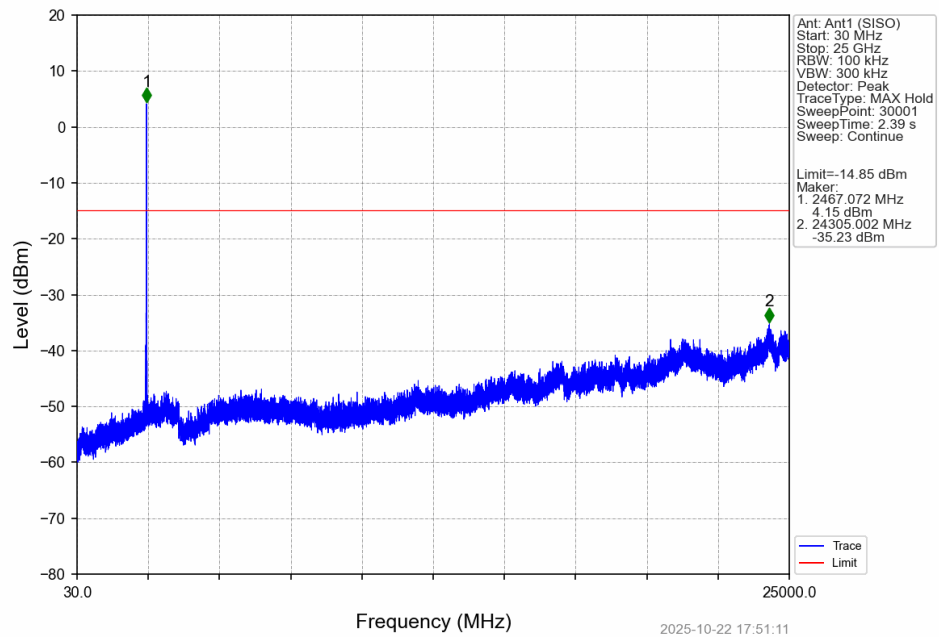
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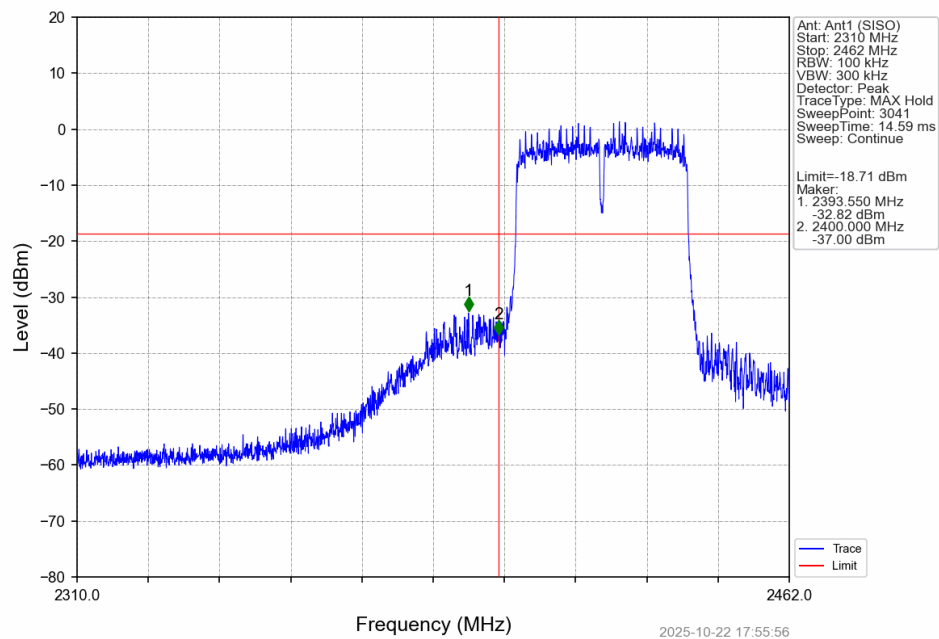
802.11n(HT20) HCH_2462MHz_Ant1 (SISO) NTN



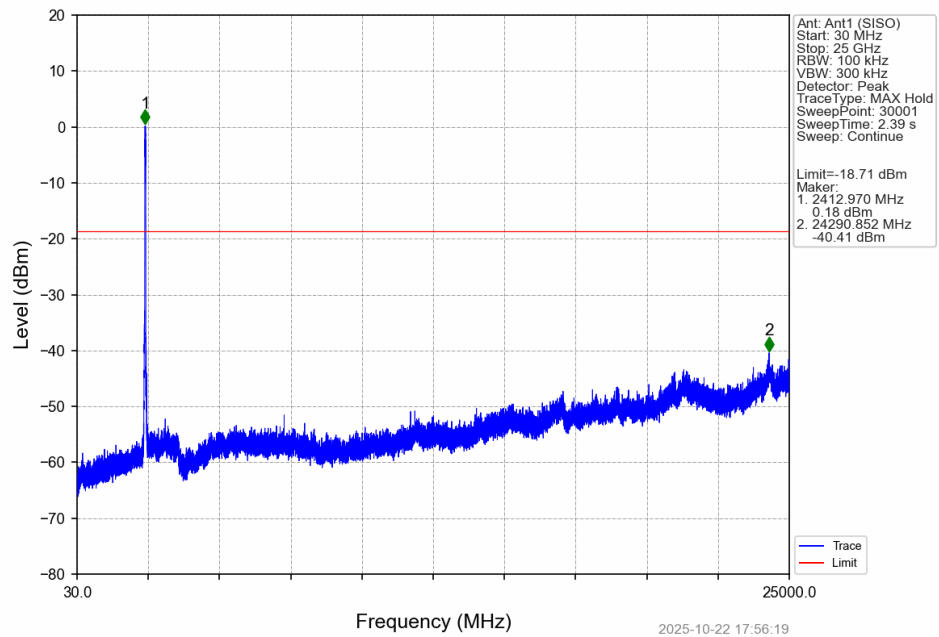
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



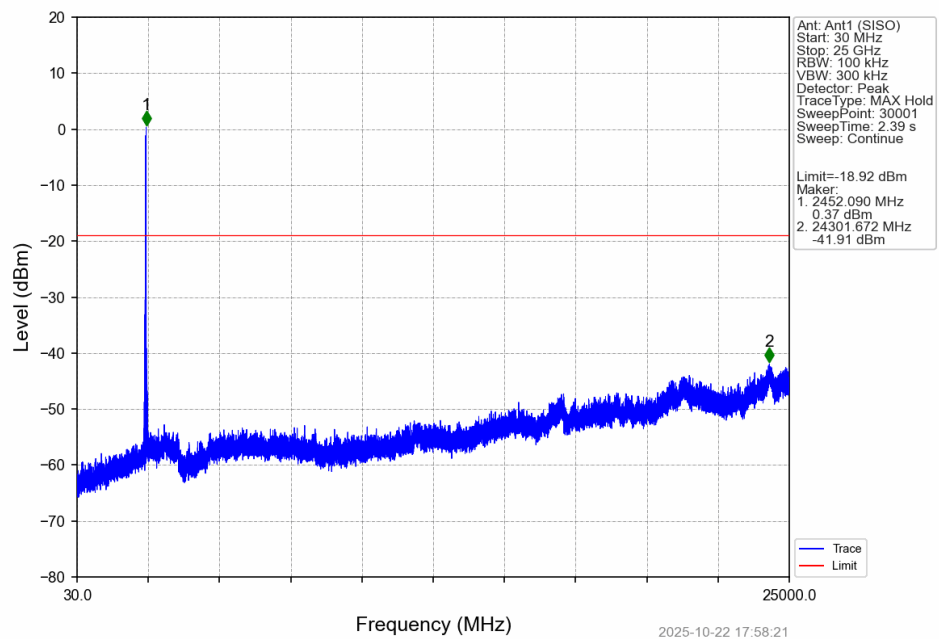
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



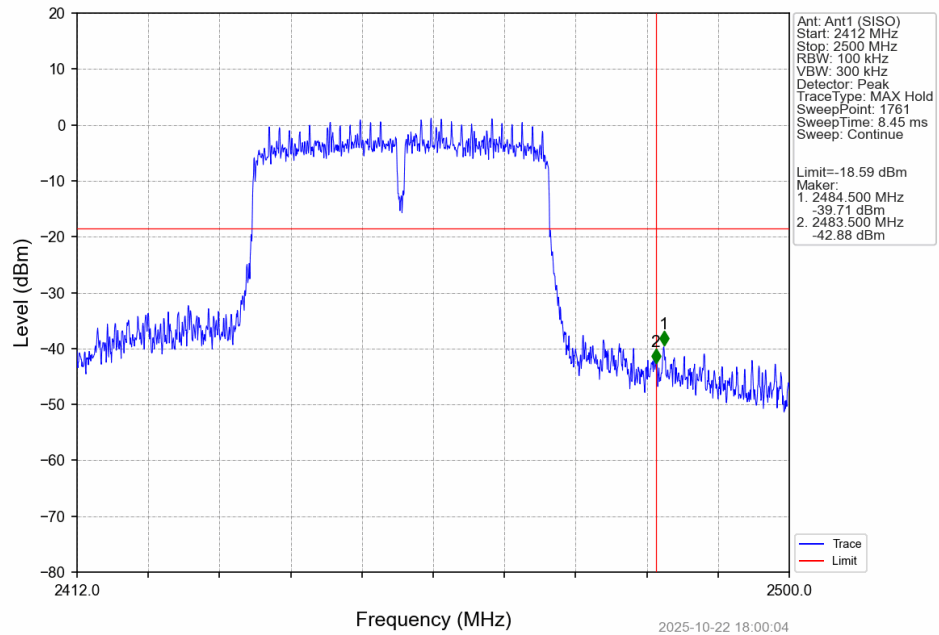
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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



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

