

Appendix RF Test Data for 2.4G WIFI

Company: : QinYangShiBaiJiWangLuoKeJiYouXianGongSi

EUT : Dashcam

FCC ID: : 2BYI3-OK-3391

Model Number : OK-3391

Report No. : HTT202609479F01

Reviewed By : Heber He

1. Duty Cycle

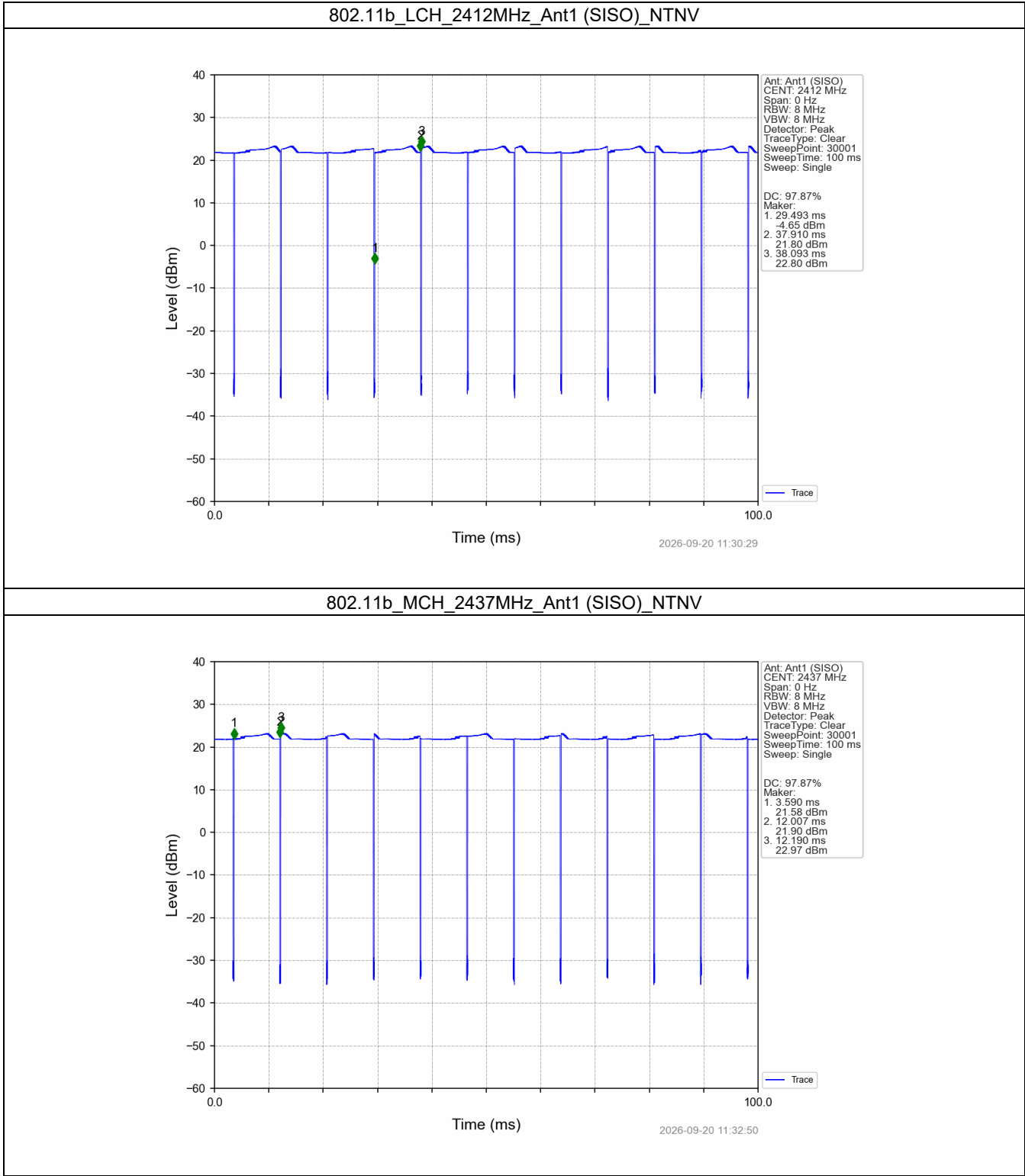
1.1 Test Result

1.1.1 Ant1

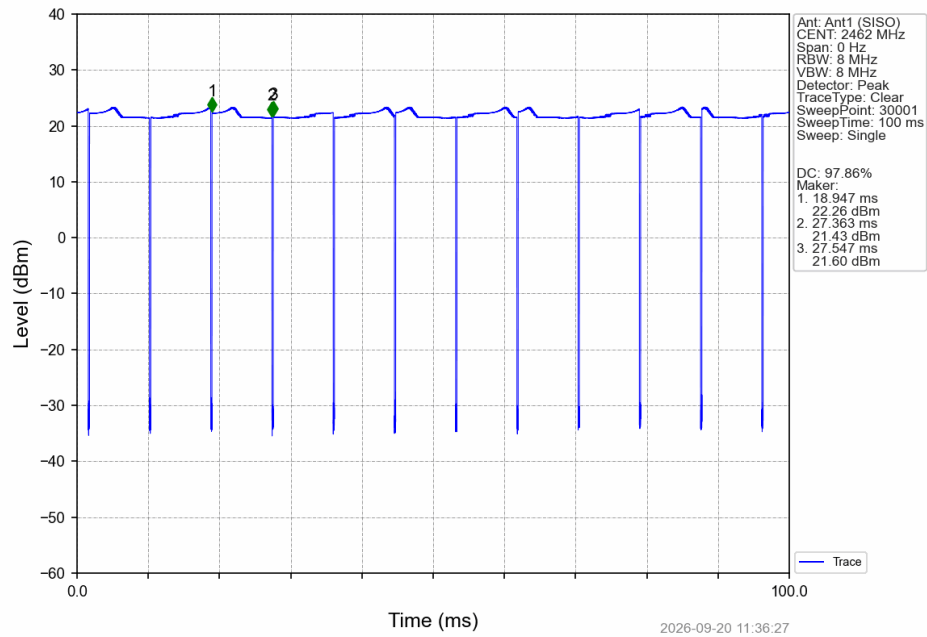
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.417	8.600	97.87	0.09	0.04
		2437	/	/	8.417	8.600	97.87	0.09	0.04
		2462	/	/	8.416	8.600	97.86	0.09	0.04
802.11g	SISO	2412	/	/	1.396	1.581	88.30	0.54	0.03
		2437	/	/	1.397	1.582	88.31	0.54	0.03
		2462	/	/	1.396	1.582	88.24	0.54	0.04
802.11n (HT20)	SISO	2412	/	/	5.090	5.448	93.43	0.30	0.07
		2437	/	/	5.088	5.446	93.43	0.30	0.04
		2462	/	/	5.088	5.445	93.44	0.29	0.03
802.11n (HT40)	SISO	2422	/	/	4.896	5.616	87.18	0.60	2.07
		2437	/	/	4.896	5.488	89.21	0.50	0.07
		2452	/	/	4.896	5.488	89.21	0.50	0.07
802.11ax (HEW20)	SISO	2412	SU	/	3.874	4.230	91.58	0.38	0.00
		2437	SU	/	3.873	4.231	91.54	0.38	0.03
		2462	SU	/	3.874	4.230	91.58	0.38	0.00
802.11ax (HEW40)	SISO	2422	SU	/	3.869	4.460	86.75	0.62	0.00
		2437	SU	/	3.869	4.459	86.77	0.62	0.00
		2452	SU	/	3.869	4.461	86.73	0.62	0.04

1.2 Test Graph

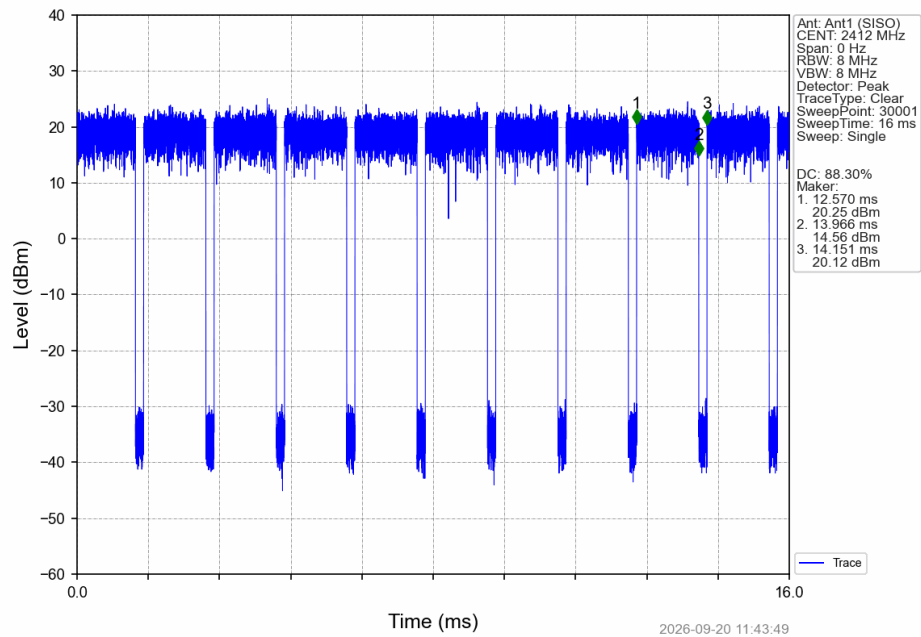
1.2.1 Ant1



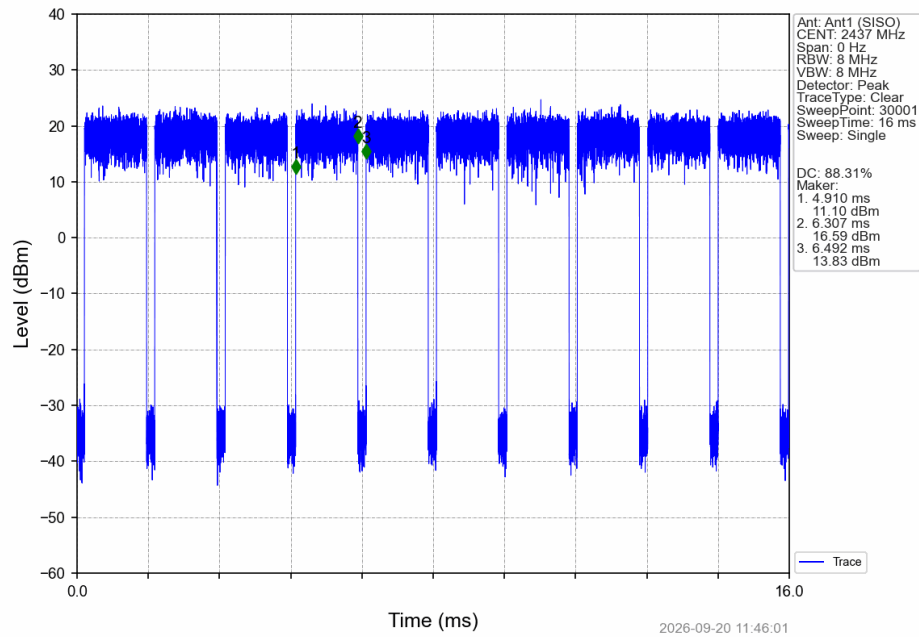
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



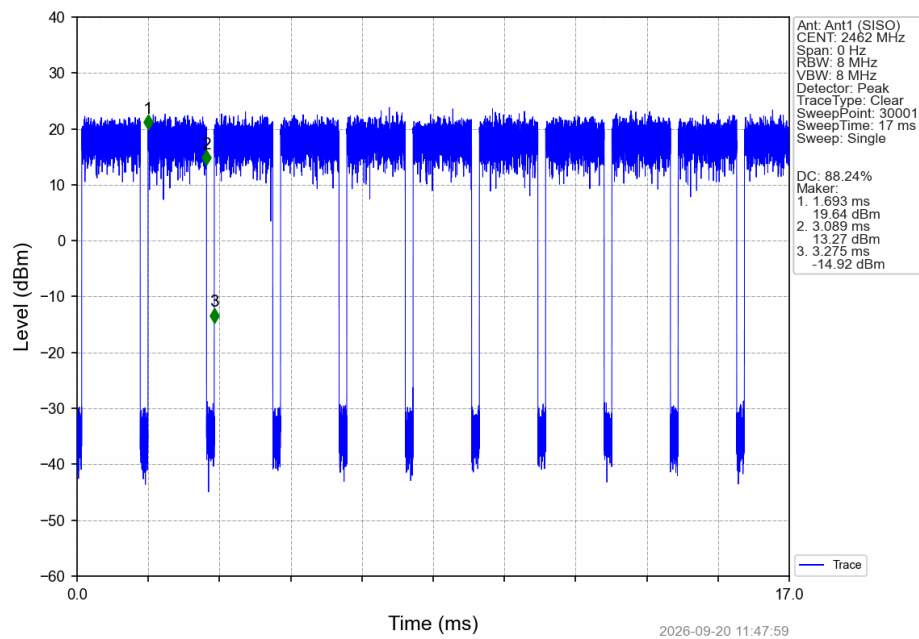
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



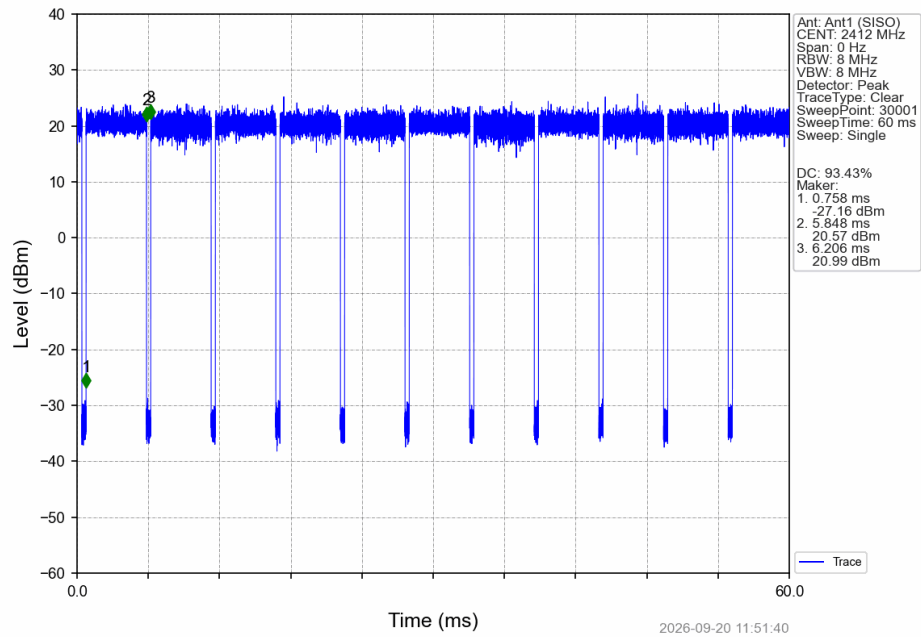
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



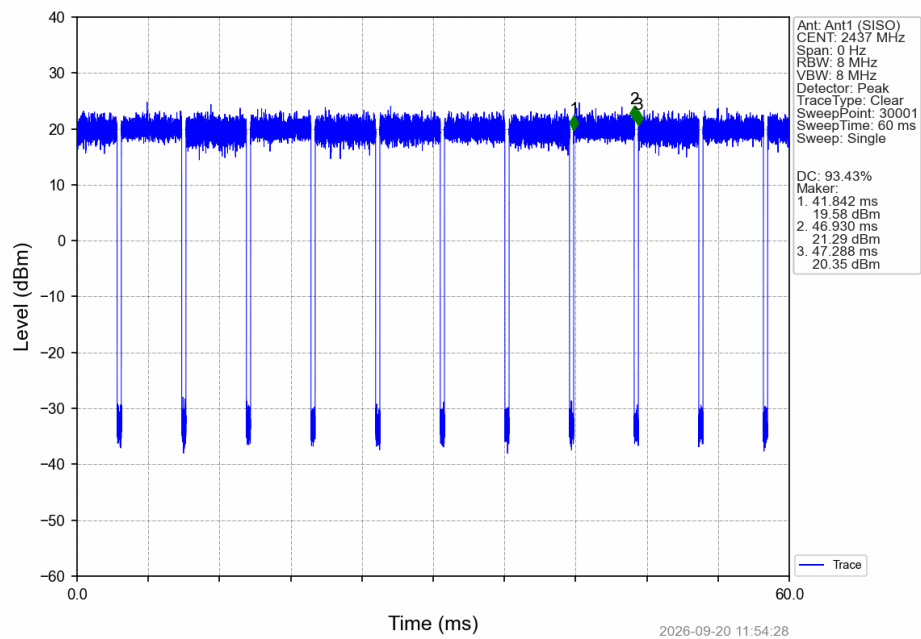
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



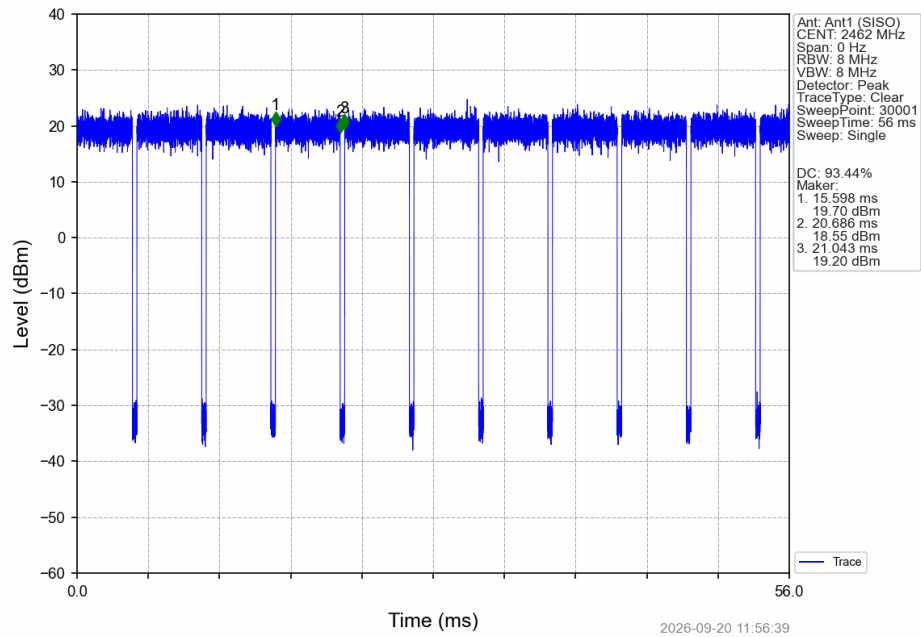
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



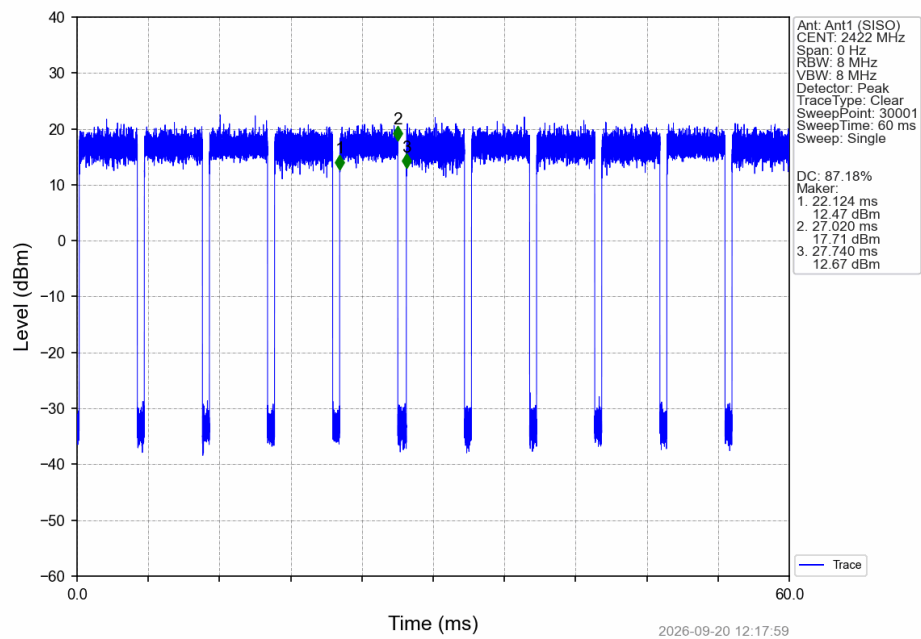
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



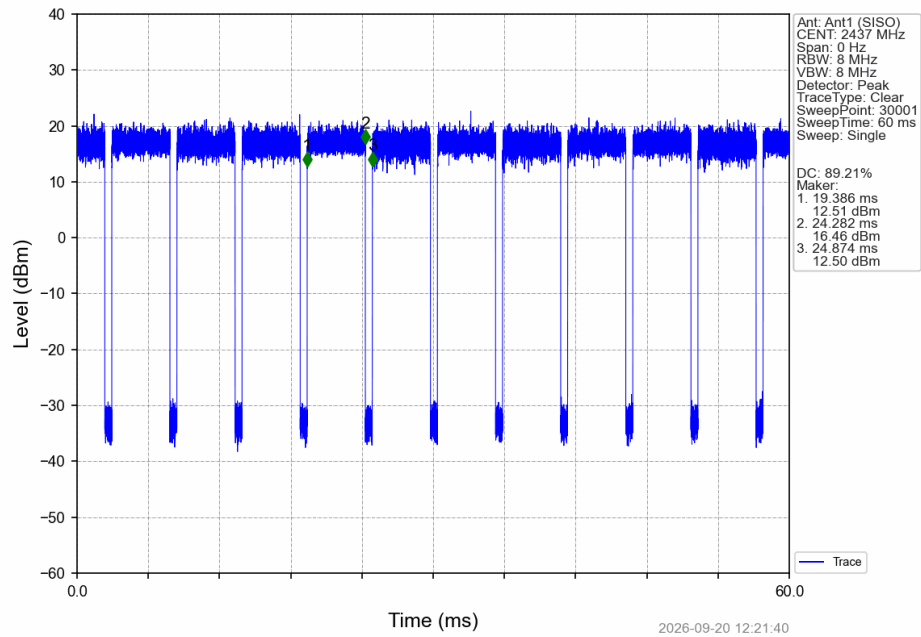
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



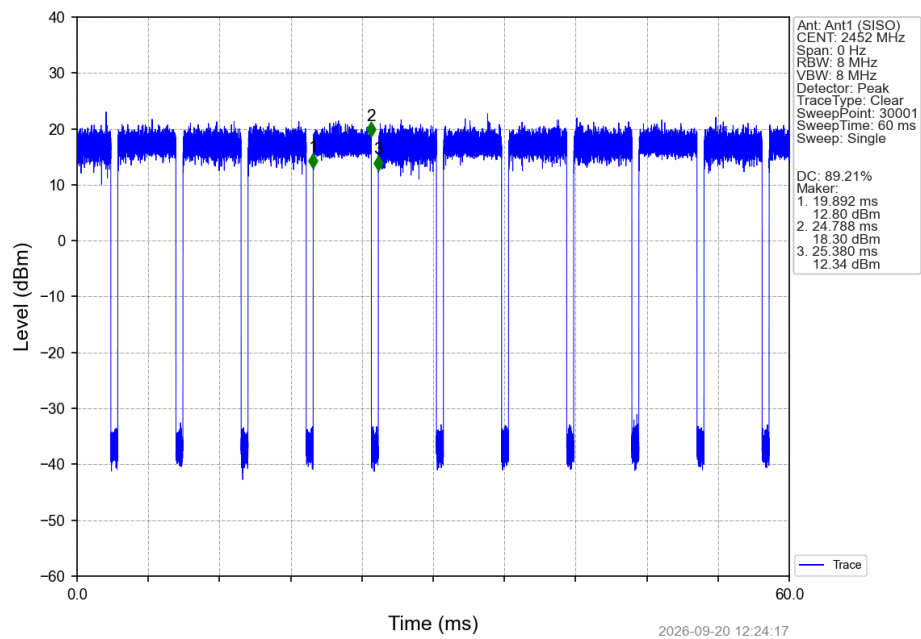
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



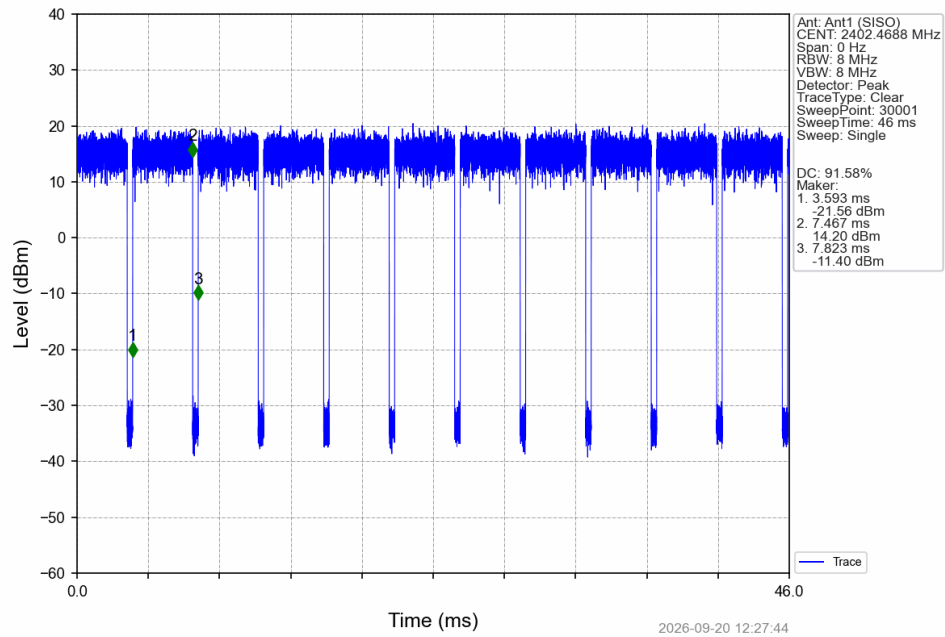
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



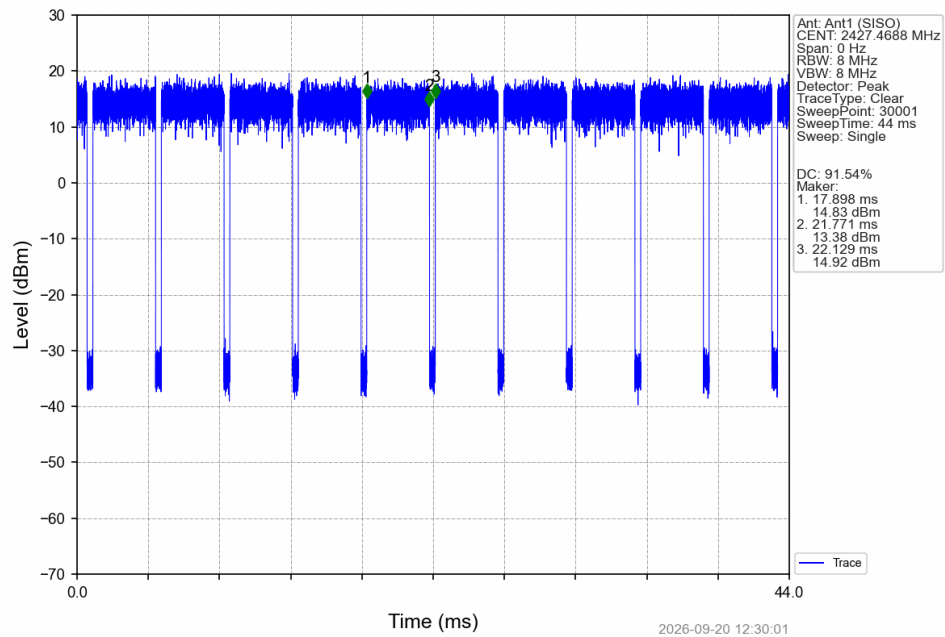
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



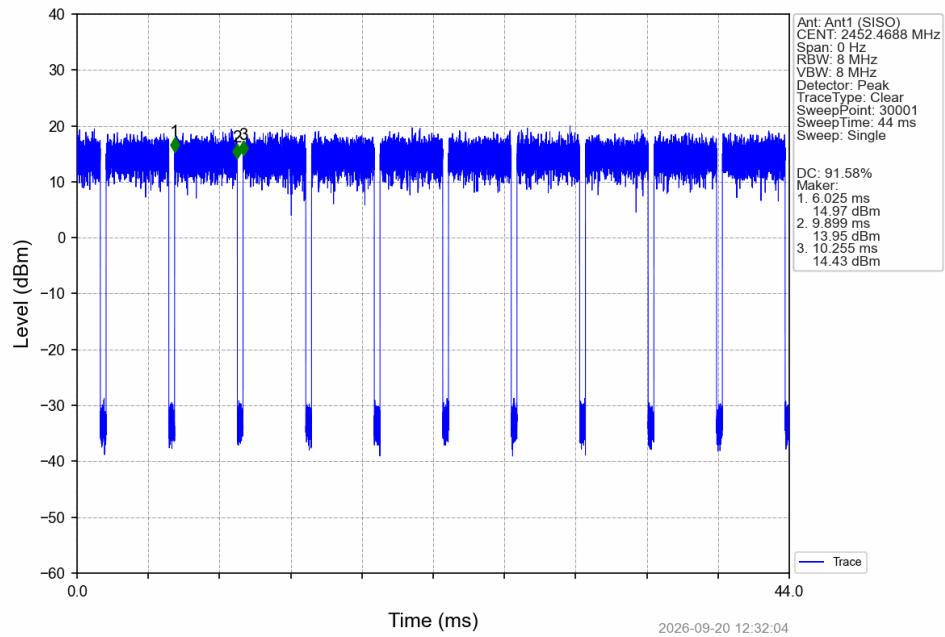
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



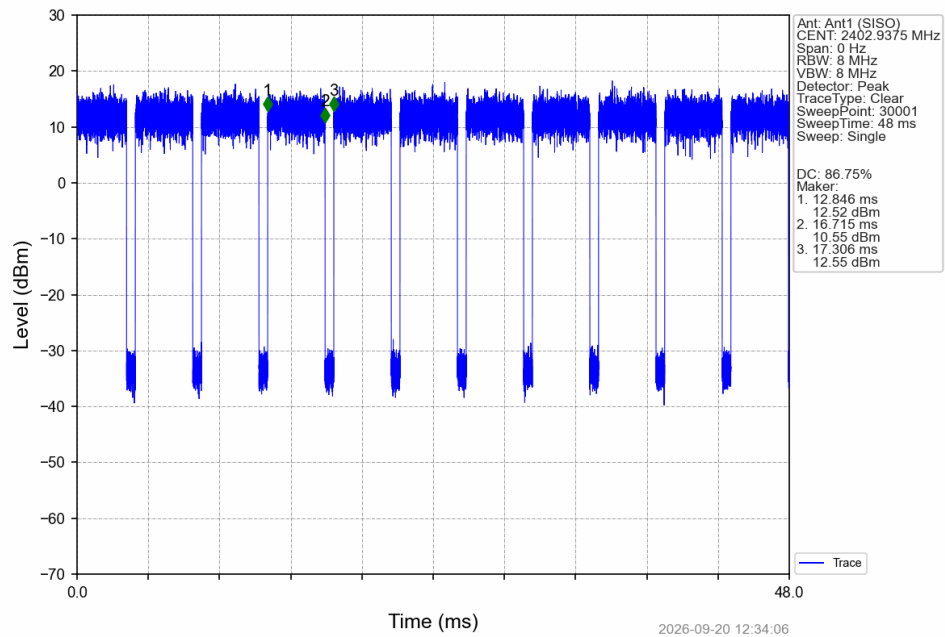
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



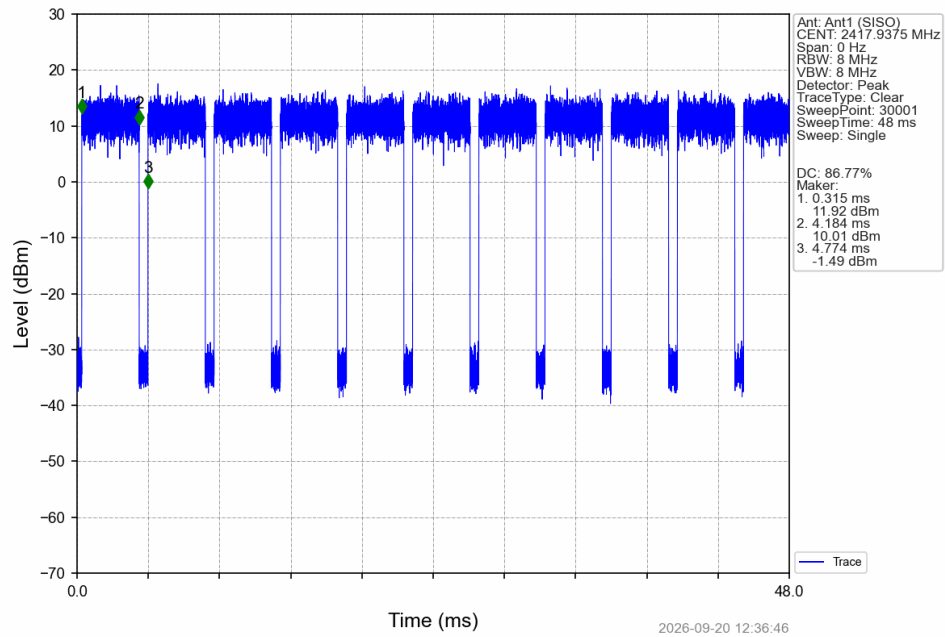
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



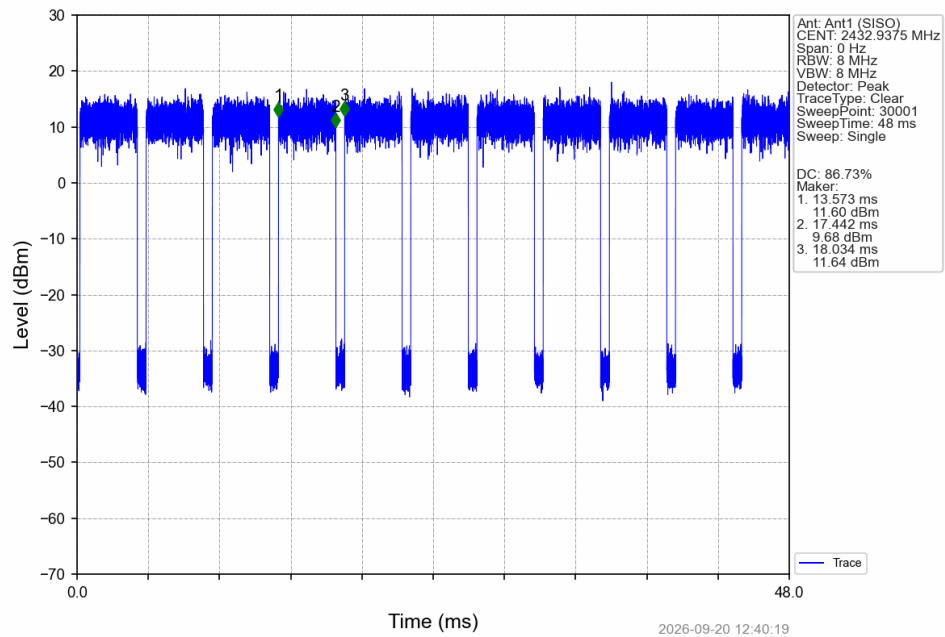
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

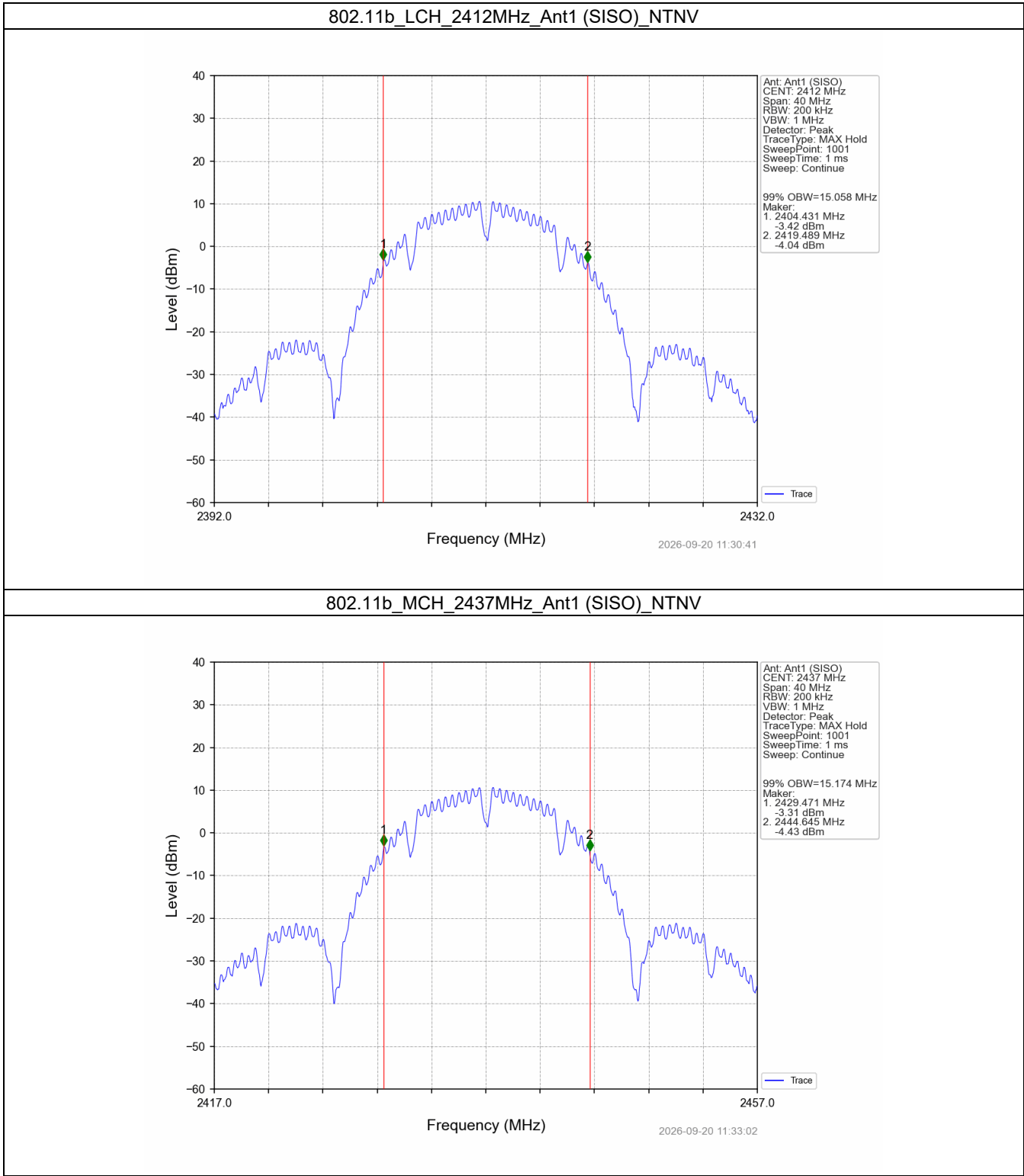
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	15.058	/	Pass
		2437	/	/	1	15.174	/	Pass
		2462	/	/	1	15.148	/	Pass
802.11g	SISO	2412	/	/	1	17.441	/	Pass
		2437	/	/	1	17.247	/	Pass
		2462	/	/	1	17.009	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.395	/	Pass
		2437	/	/	1	18.428	/	Pass
		2462	/	/	1	18.324	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	39.171	/	Pass
		2437	/	/	1	39.169	/	Pass
		2452	/	/	1	38.384	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.136	/	Pass
		2437	SU	/	1	19.187	/	Pass
		2462	SU	/	1	19.188	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	39.012	/	Pass
		2437	SU	/	1	39.042	/	Pass
		2452	SU	/	1	38.747	/	Pass

2.1.2 6dB BW

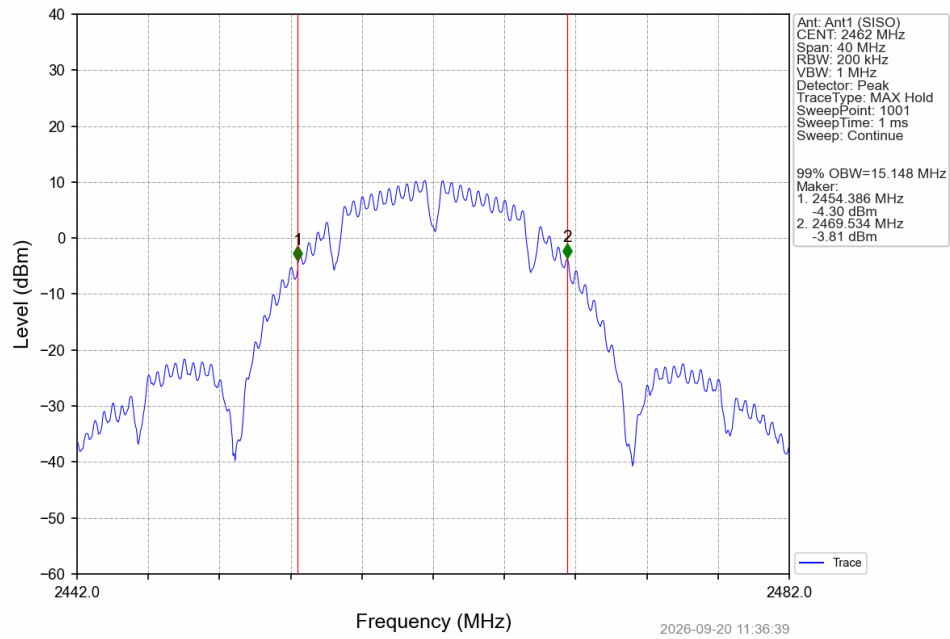
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.147	>=0.5	Pass
		2437	/	/	1	10.163	>=0.5	Pass
		2462	/	/	1	10.157	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.061	>=0.5	Pass
		2437	/	/	1	16.180	>=0.5	Pass
		2462	/	/	1	16.144	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.976	>=0.5	Pass
		2437	/	/	1	17.248	>=0.5	Pass
		2462	/	/	1	17.344	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.079	>=0.5	Pass
		2437	/	/	1	36.281	>=0.5	Pass
		2452	/	/	1	35.582	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	15.852	>=0.5	Pass
		2437	SU	/	1	18.463	>=0.5	Pass
		2462	SU	/	1	18.717	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.299	>=0.5	Pass
		2437	SU	/	1	36.803	>=0.5	Pass
		2452	SU	/	1	36.634	>=0.5	Pass

2.2 Test Graph

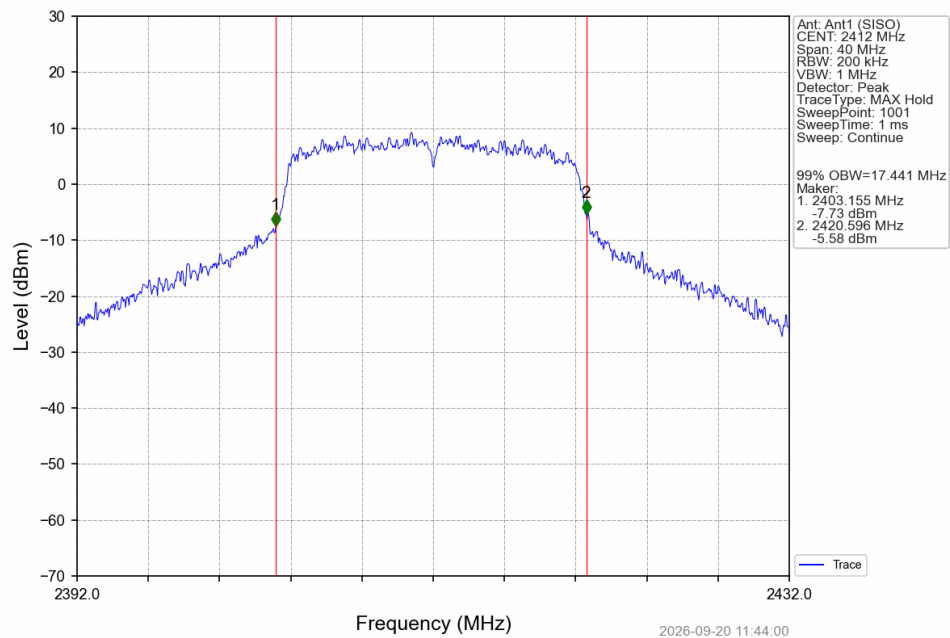
2.2.1 OBW



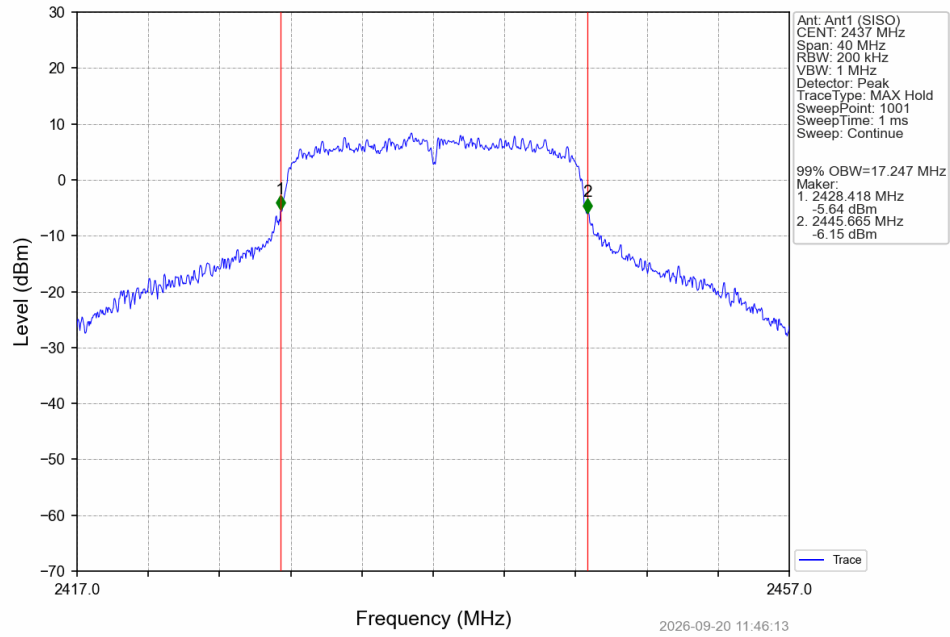
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



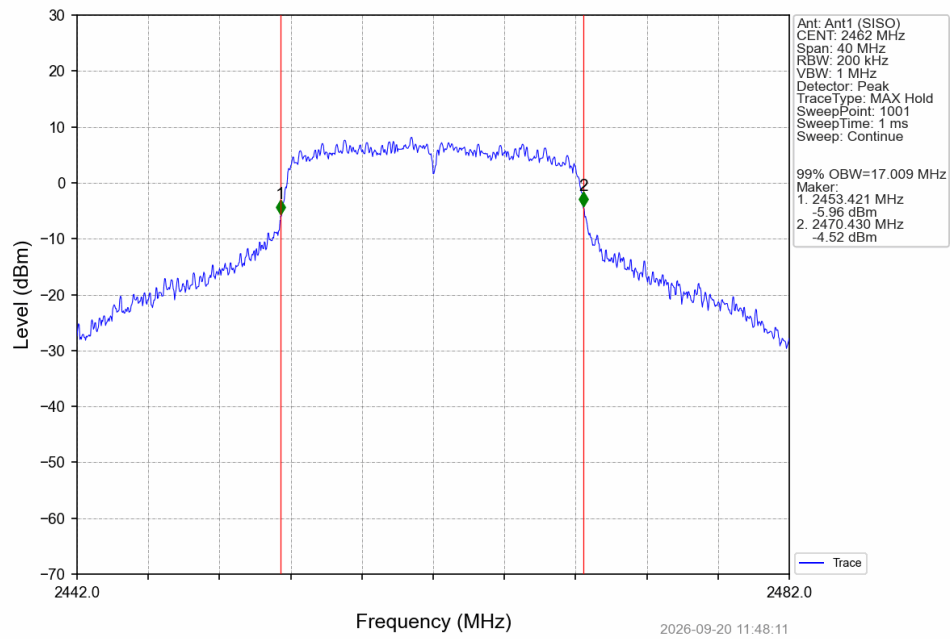
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



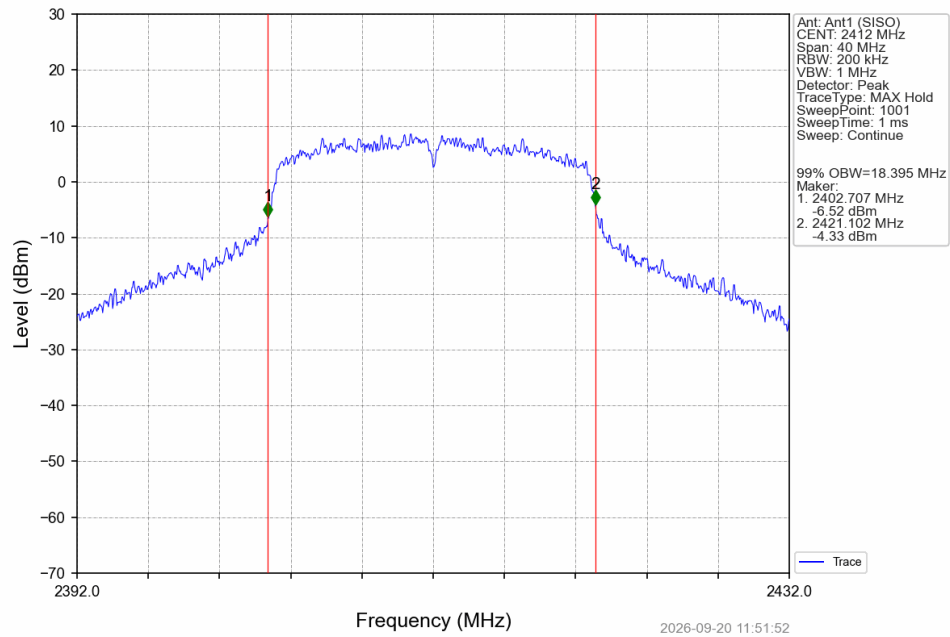
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



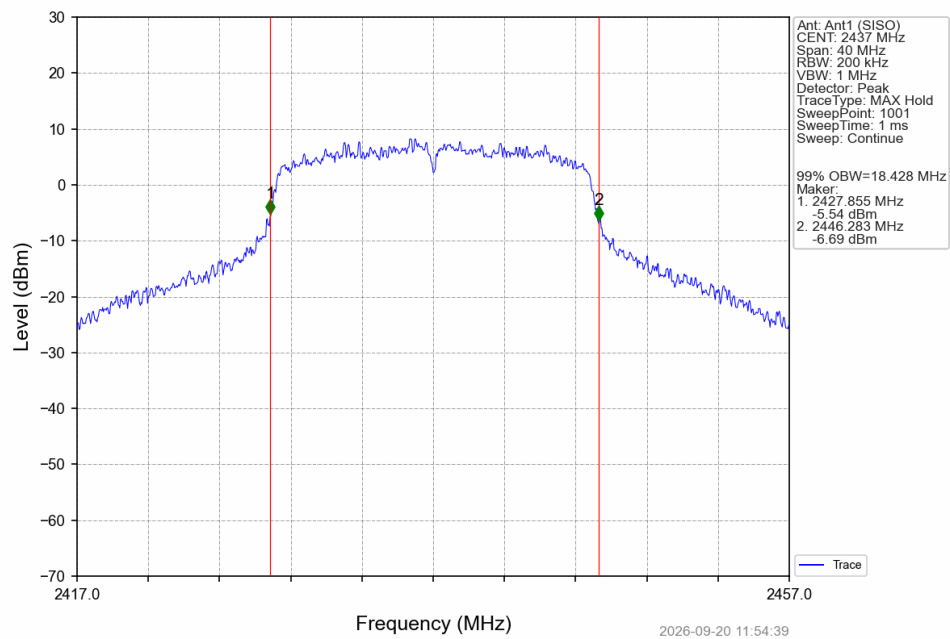
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



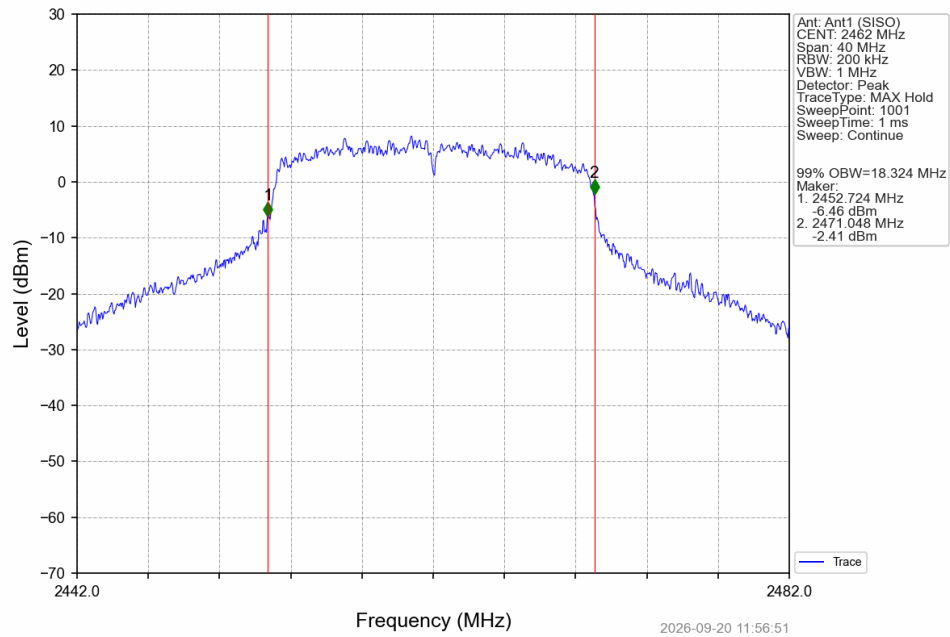
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



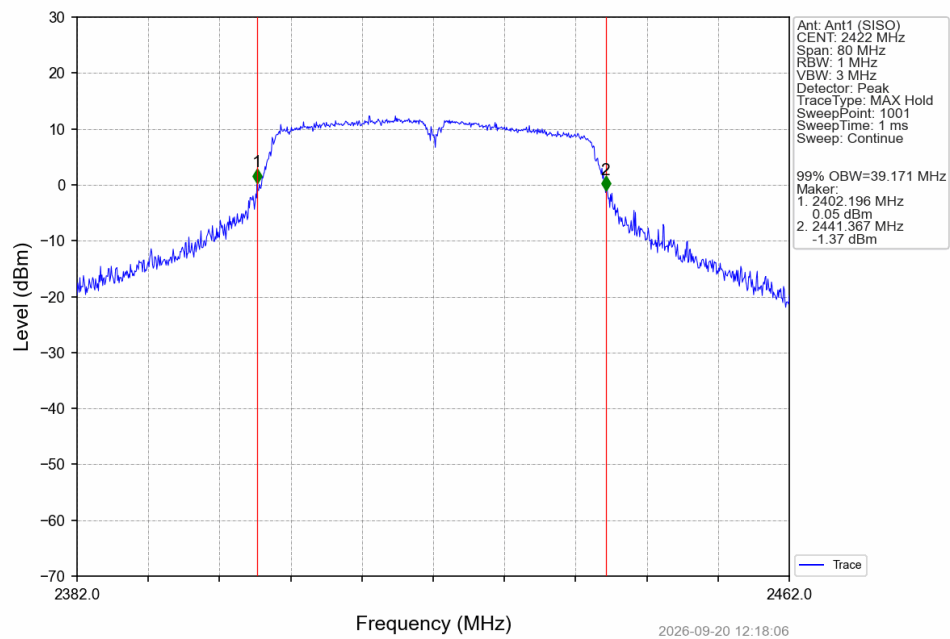
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



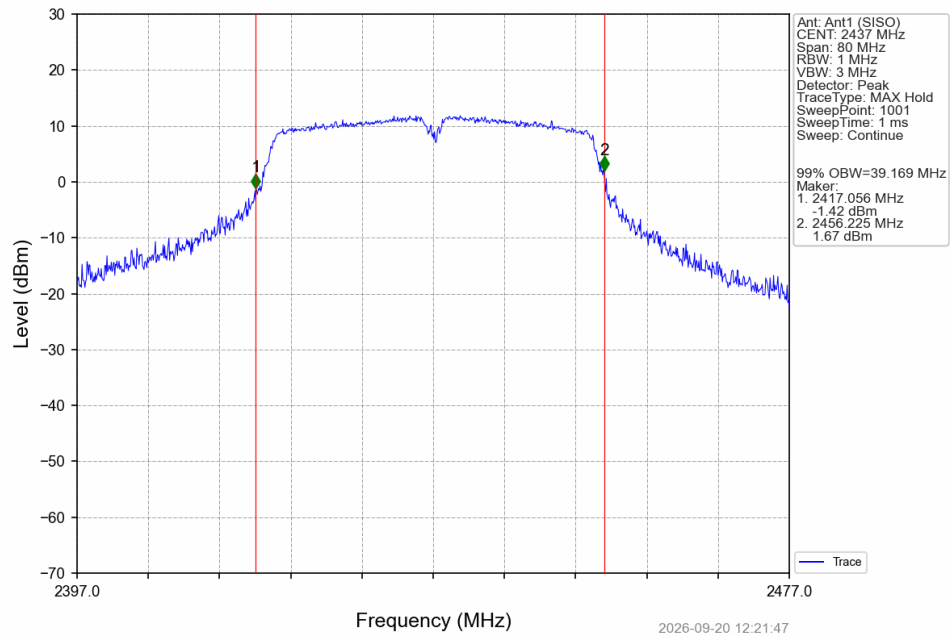
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



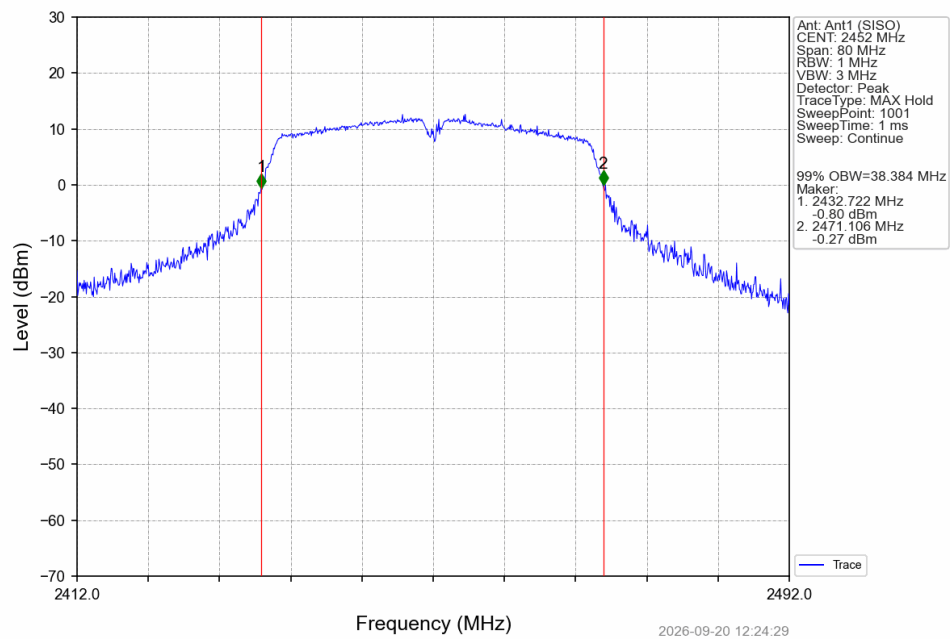
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



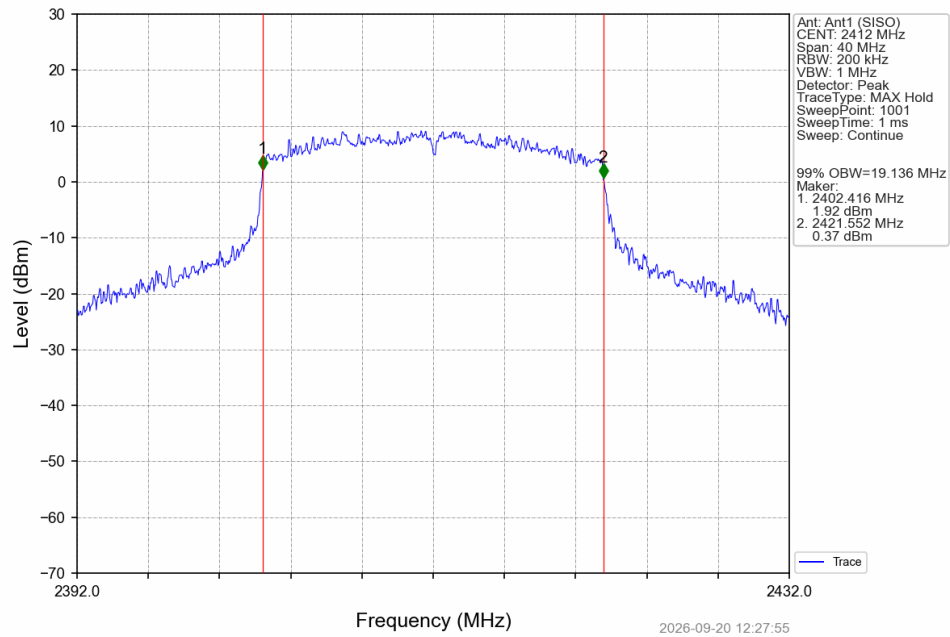
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



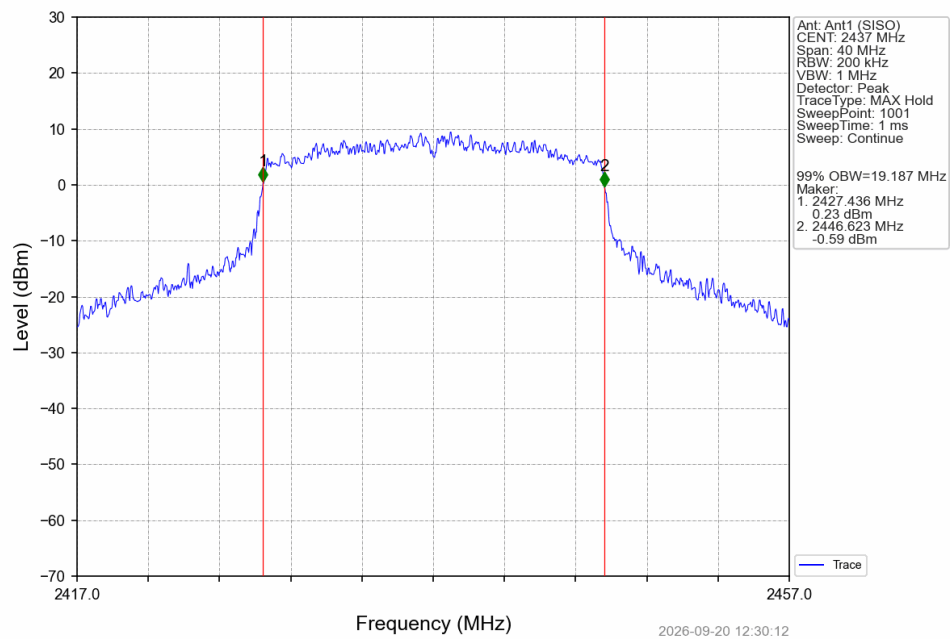
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



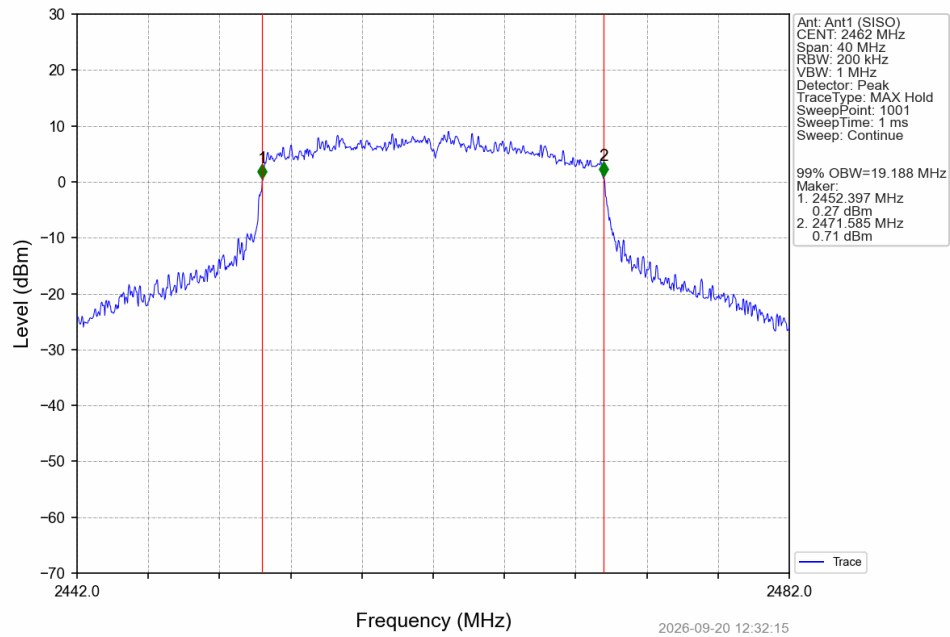
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



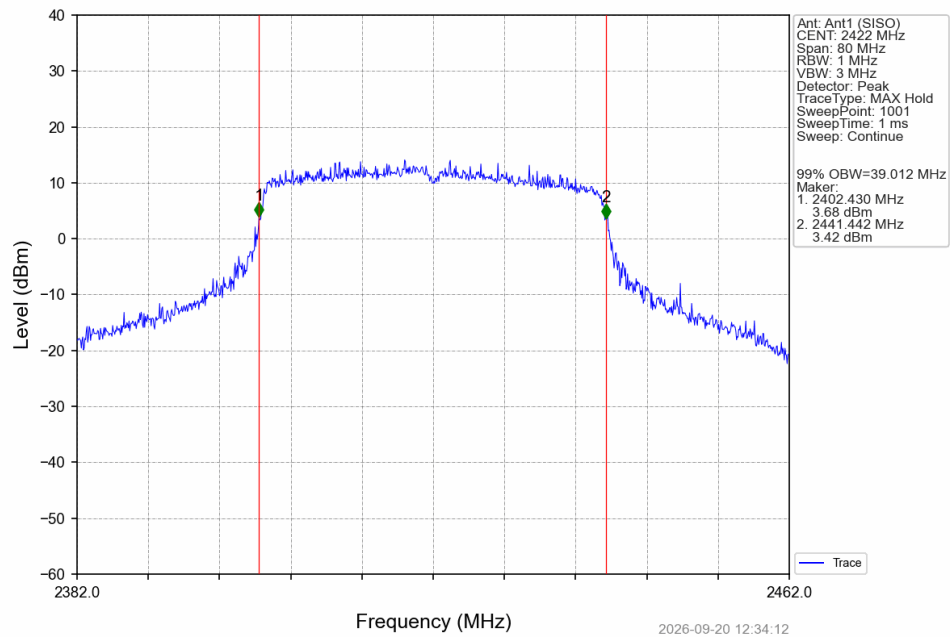
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



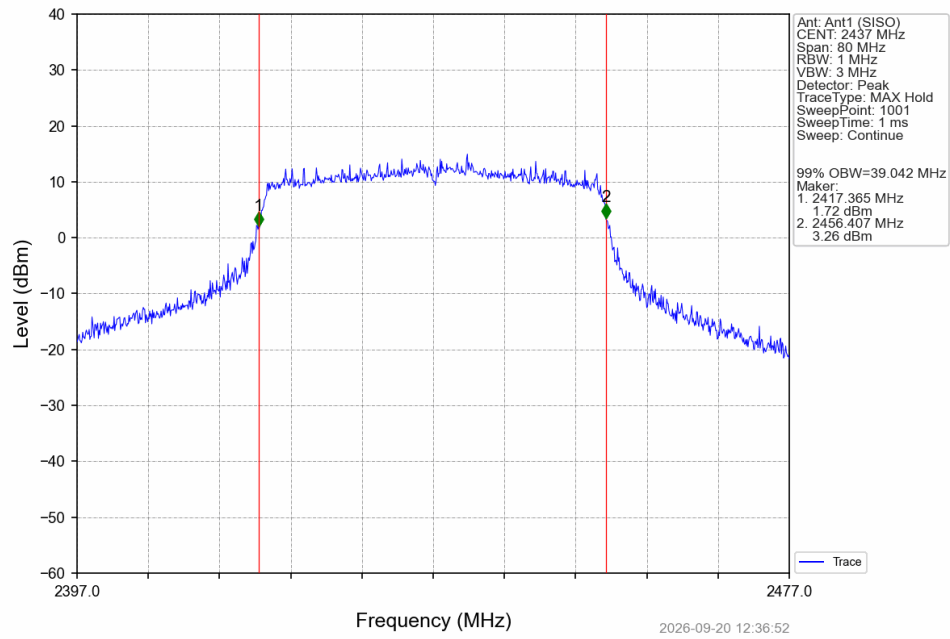
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant1 (SISO)_NTNV



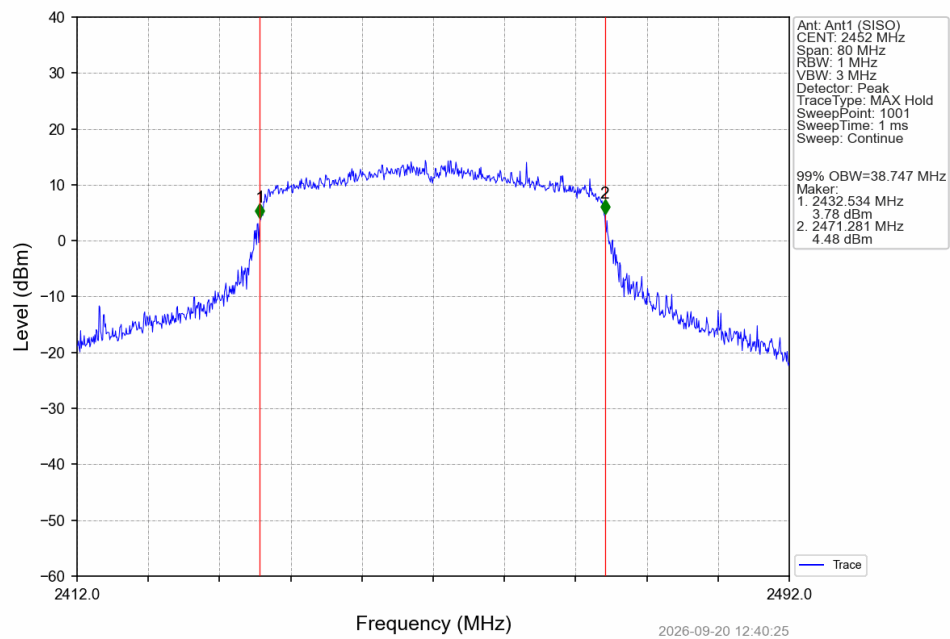
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (SISO)_NTNV



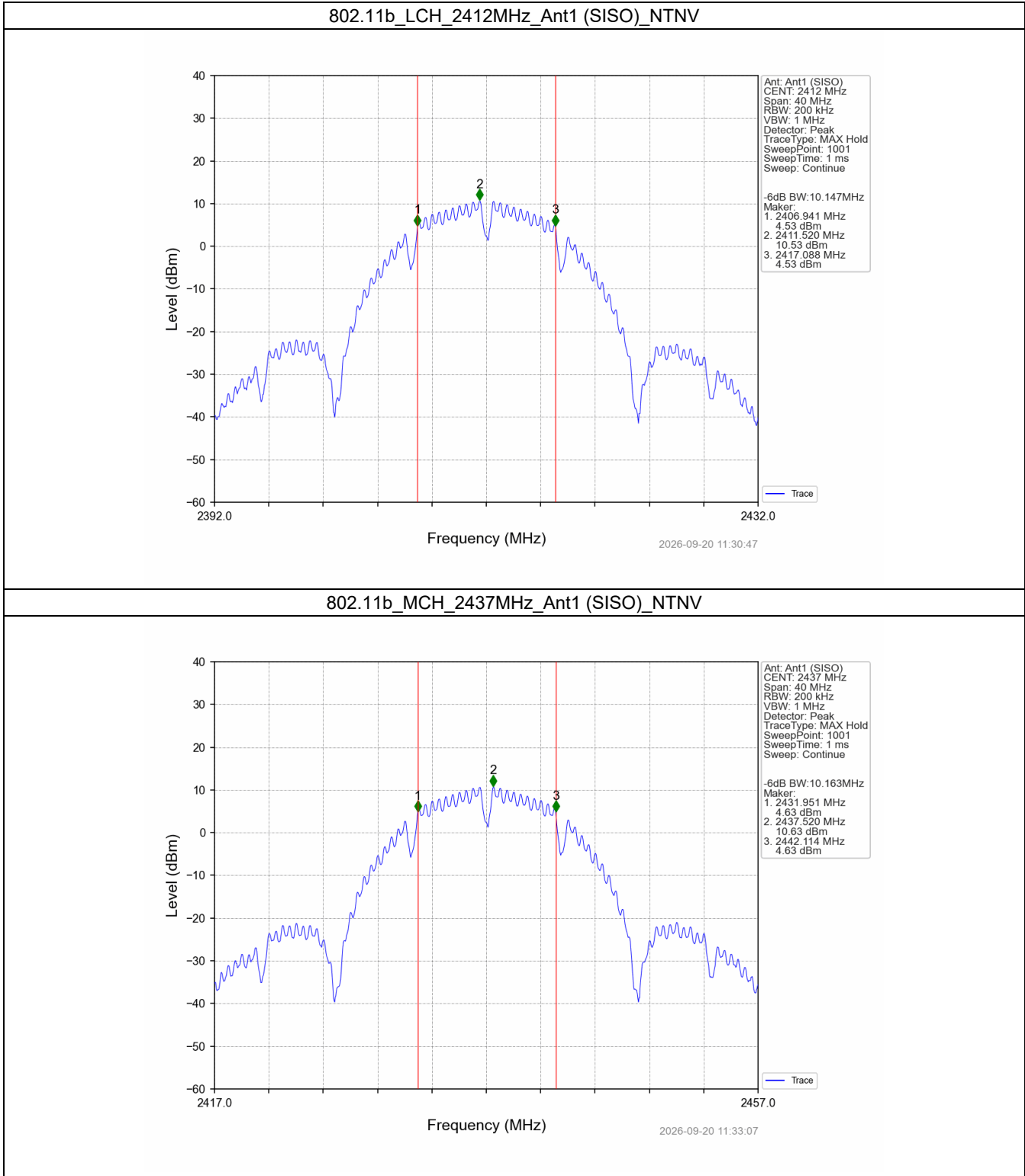
802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



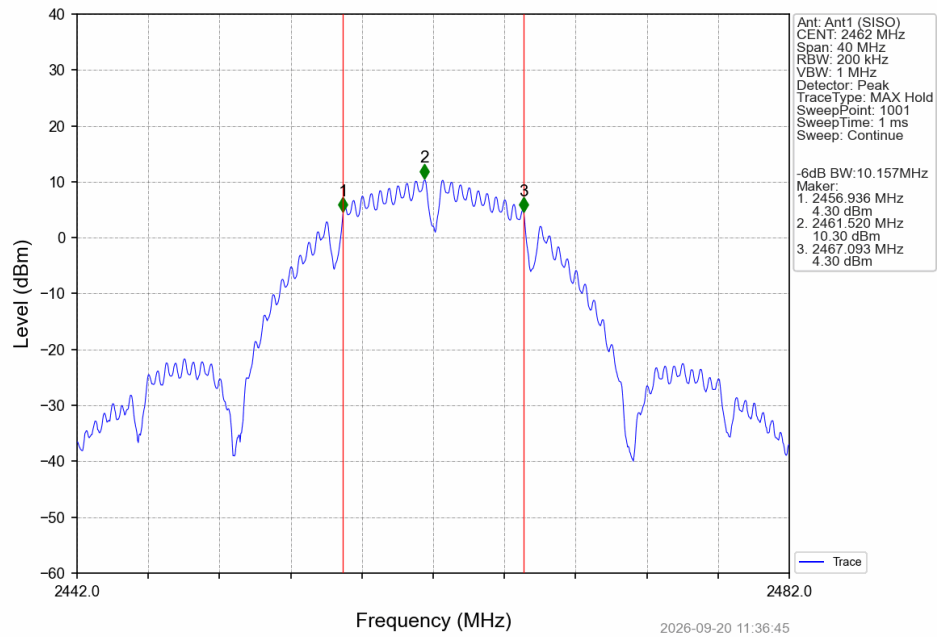
802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



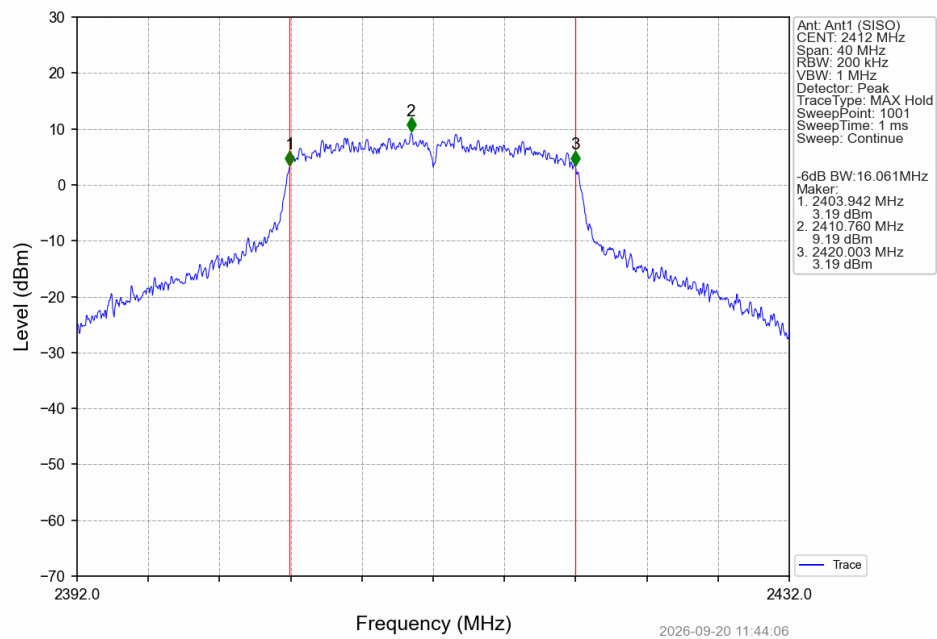
2.2.2 6dB BW



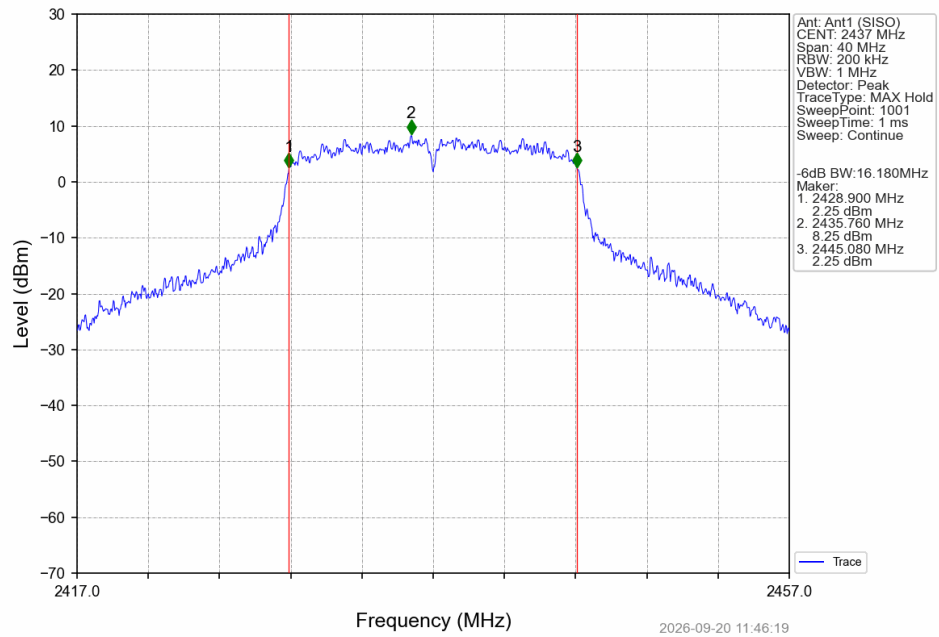
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



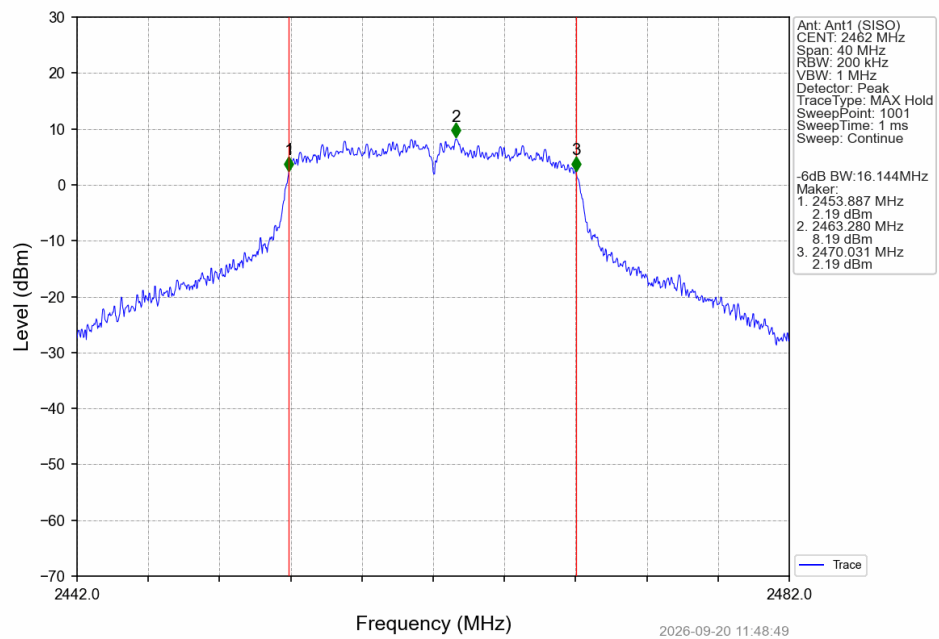
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



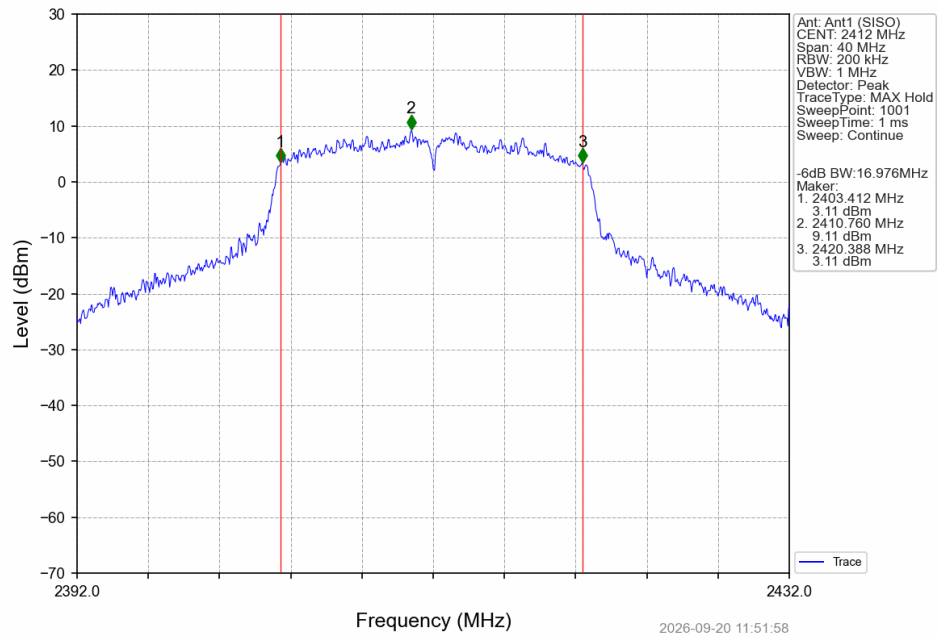
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



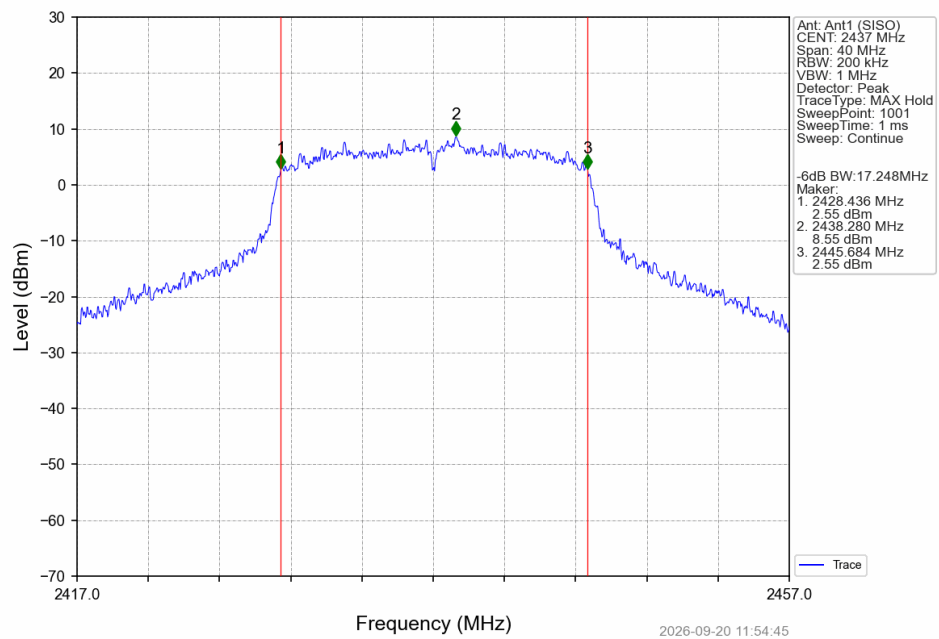
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



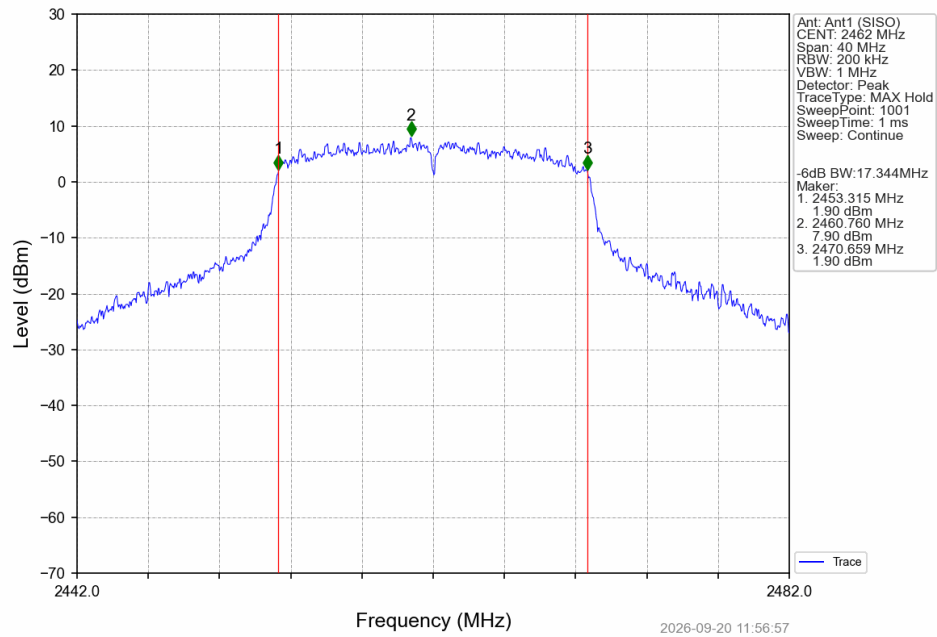
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



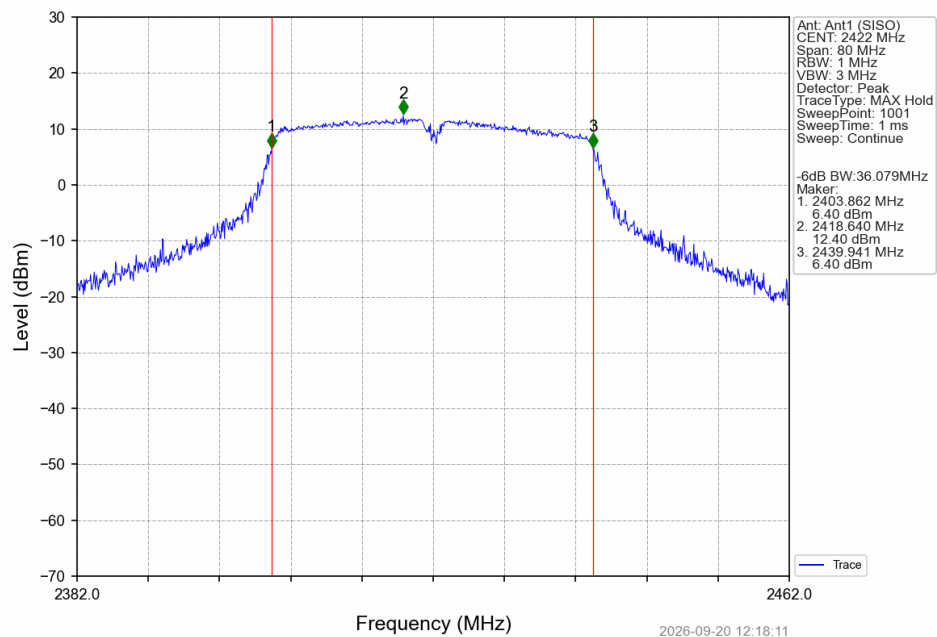
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



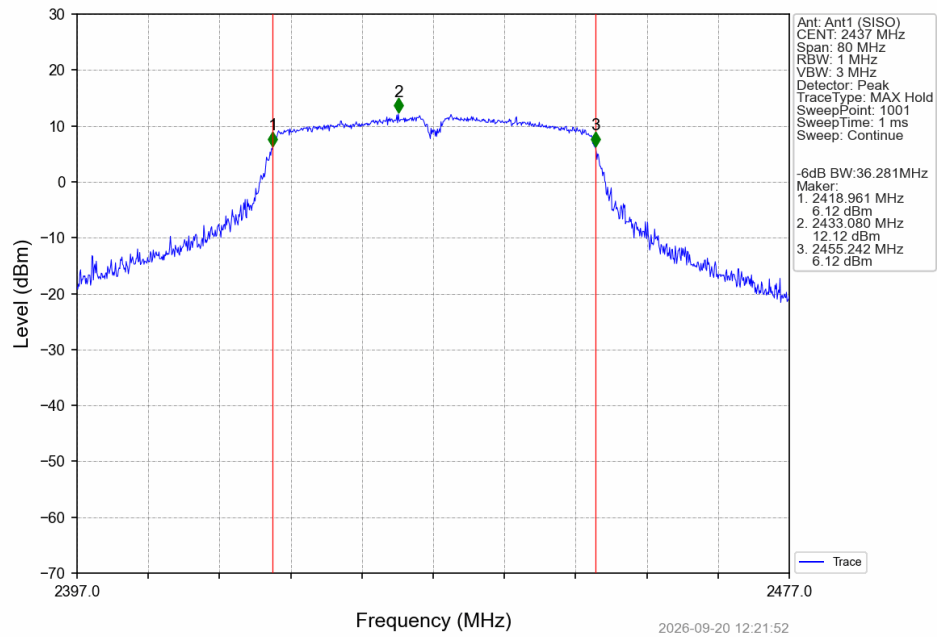
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



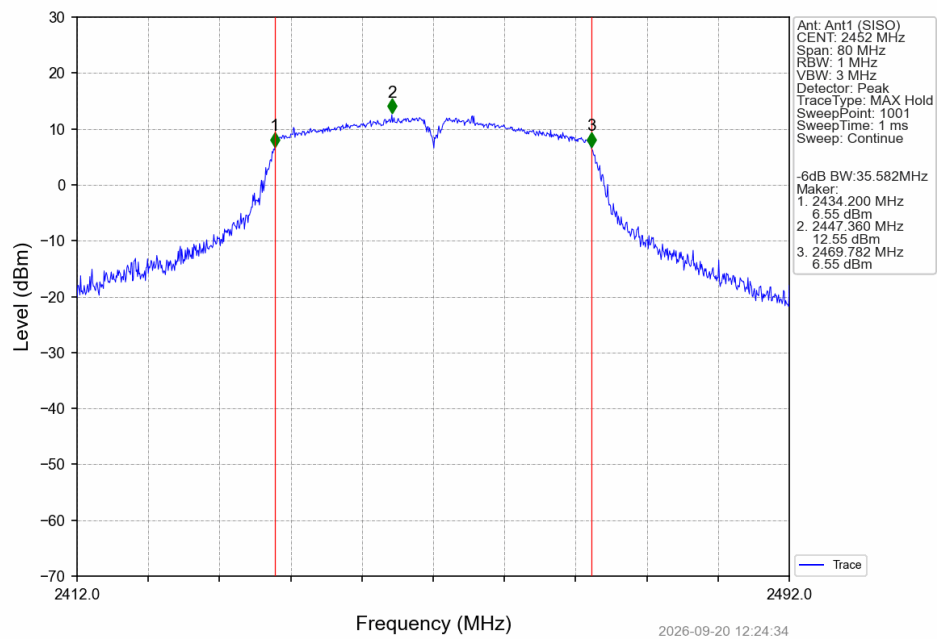
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



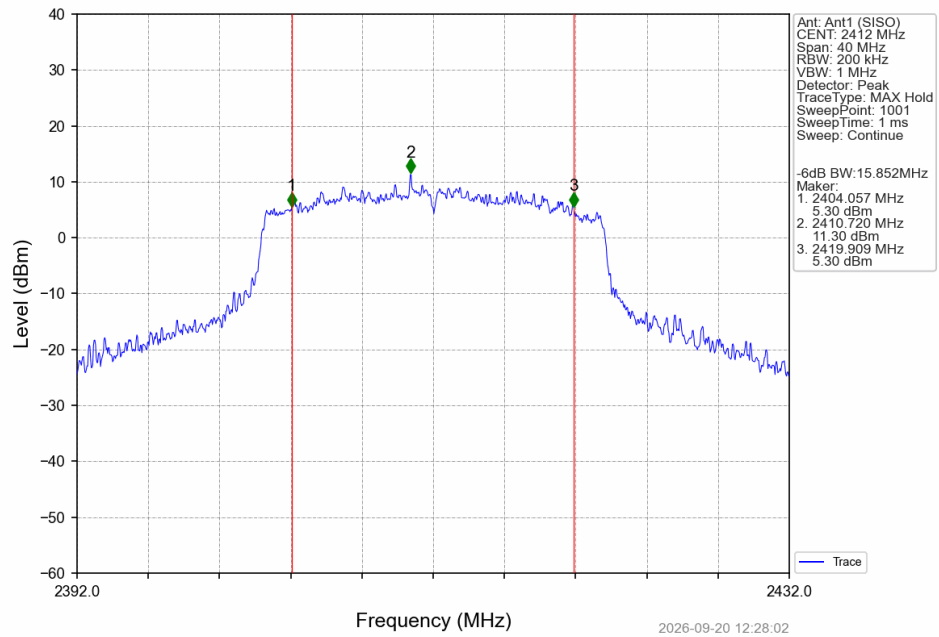
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



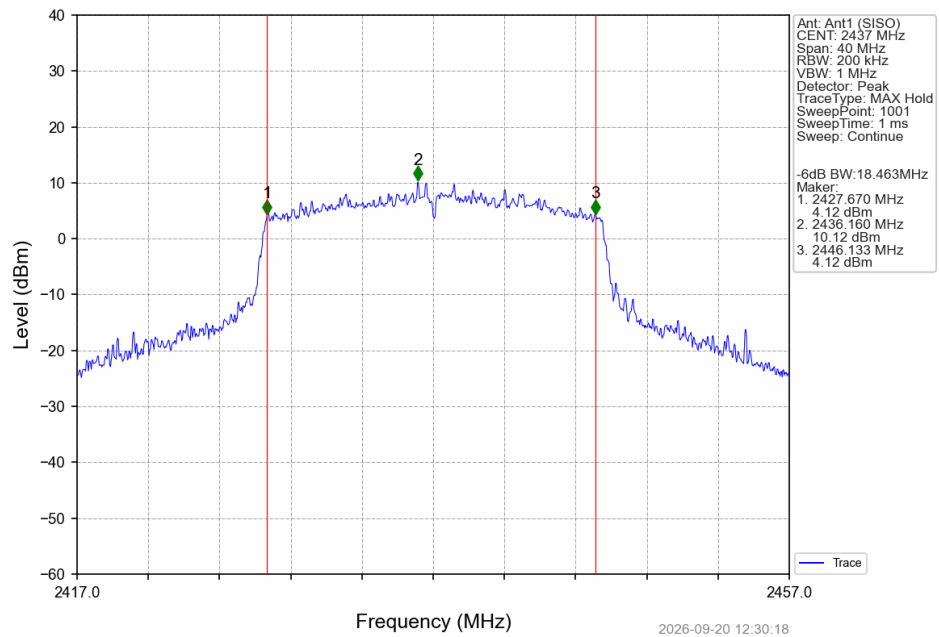
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



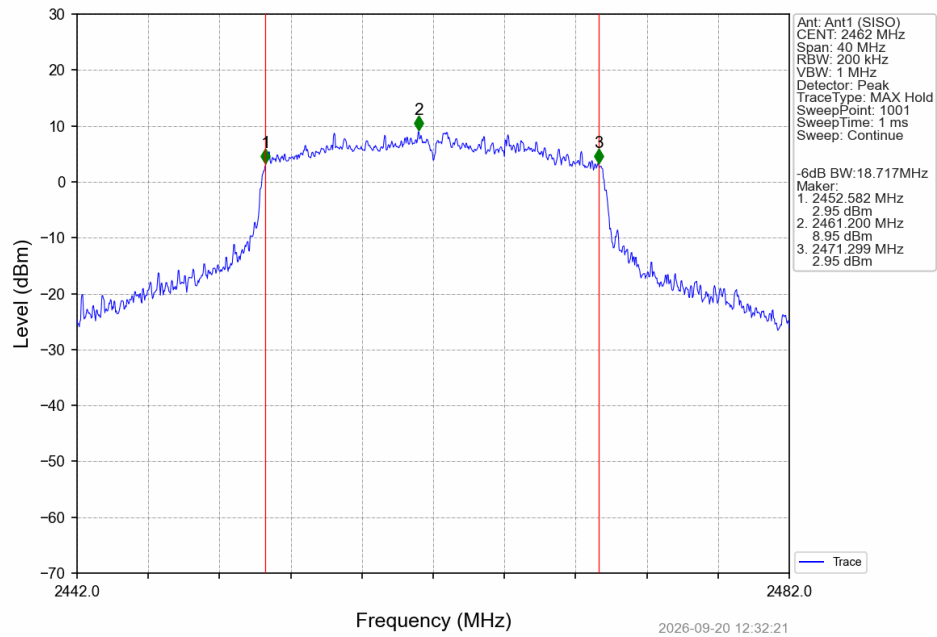
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



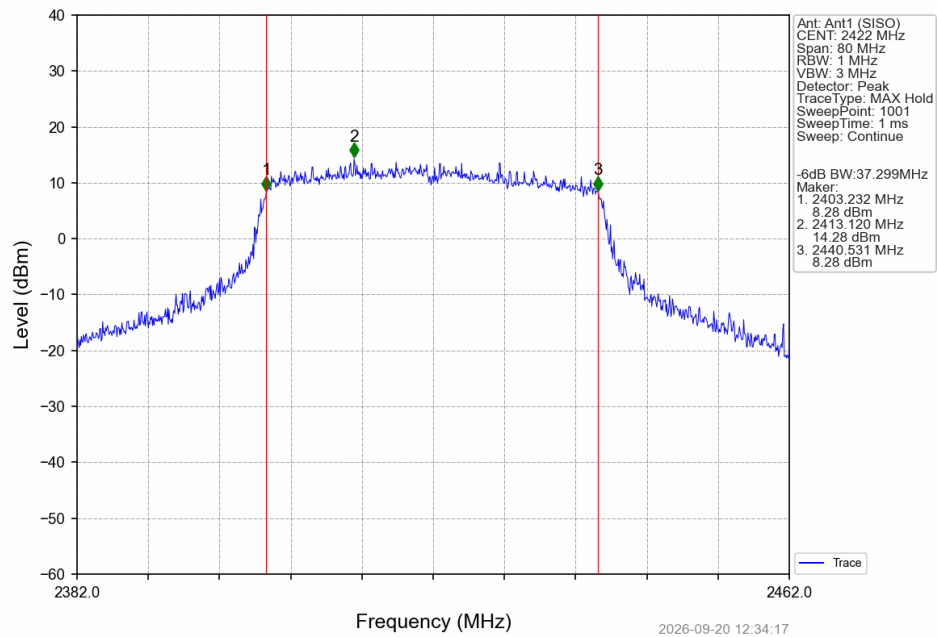
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



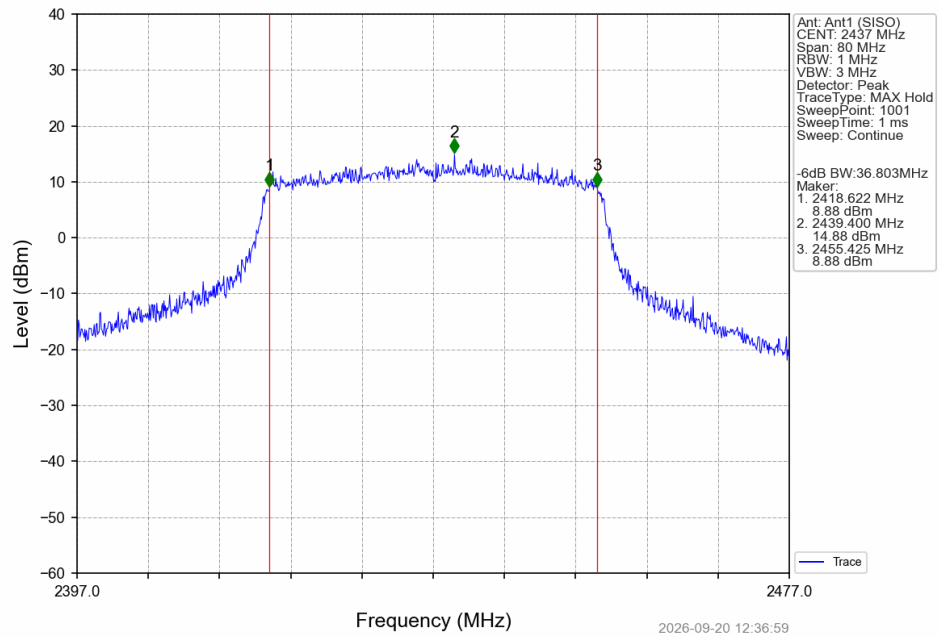
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



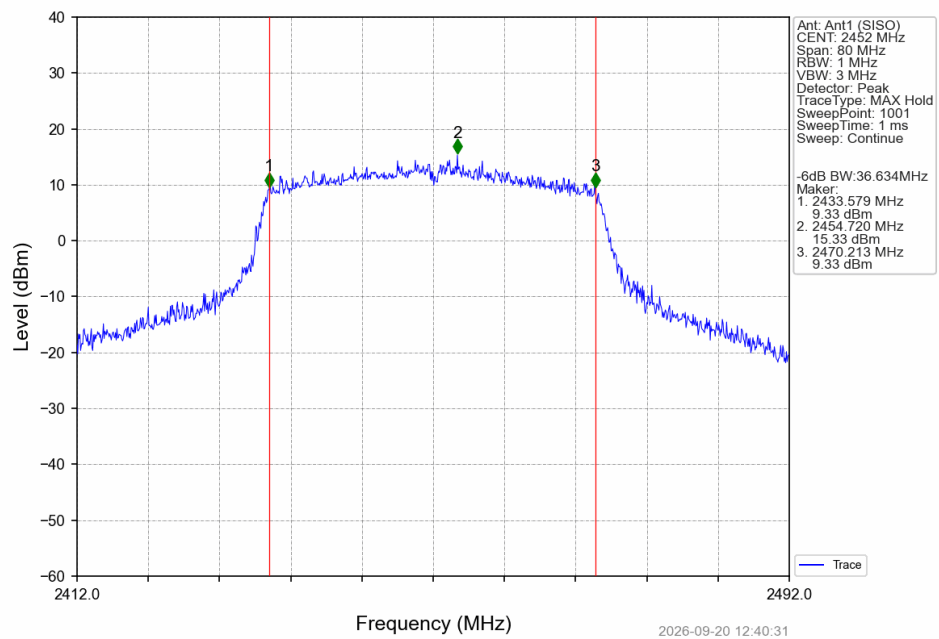
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	21.38	<=30	Pass
		2437	/	/	21.51	<=30	Pass
		2462	/	/	21.17	<=30	Pass
802.11g	SISO	2412	/	/	25.89	<=30	Pass
		2437	/	/	25.36	<=30	Pass
		2462	/	/	25.09	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	25.74	<=30	Pass
		2437	/	/	25.32	<=30	Pass
		2462	/	/	24.98	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	25.57	<=30	Pass
		2437	/	/	25.54	<=30	Pass
		2452	/	/	25.41	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	22.81	<=30	Pass
		2437	SU	/	26.33	<=30	Pass
		2462	SU	/	26.01	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	26.54	<=30	Pass
		2437	SU	/	26.42	<=30	Pass
		2452	SU	/	26.47	<=30	Pass

4. Maximum Power Spectral Density

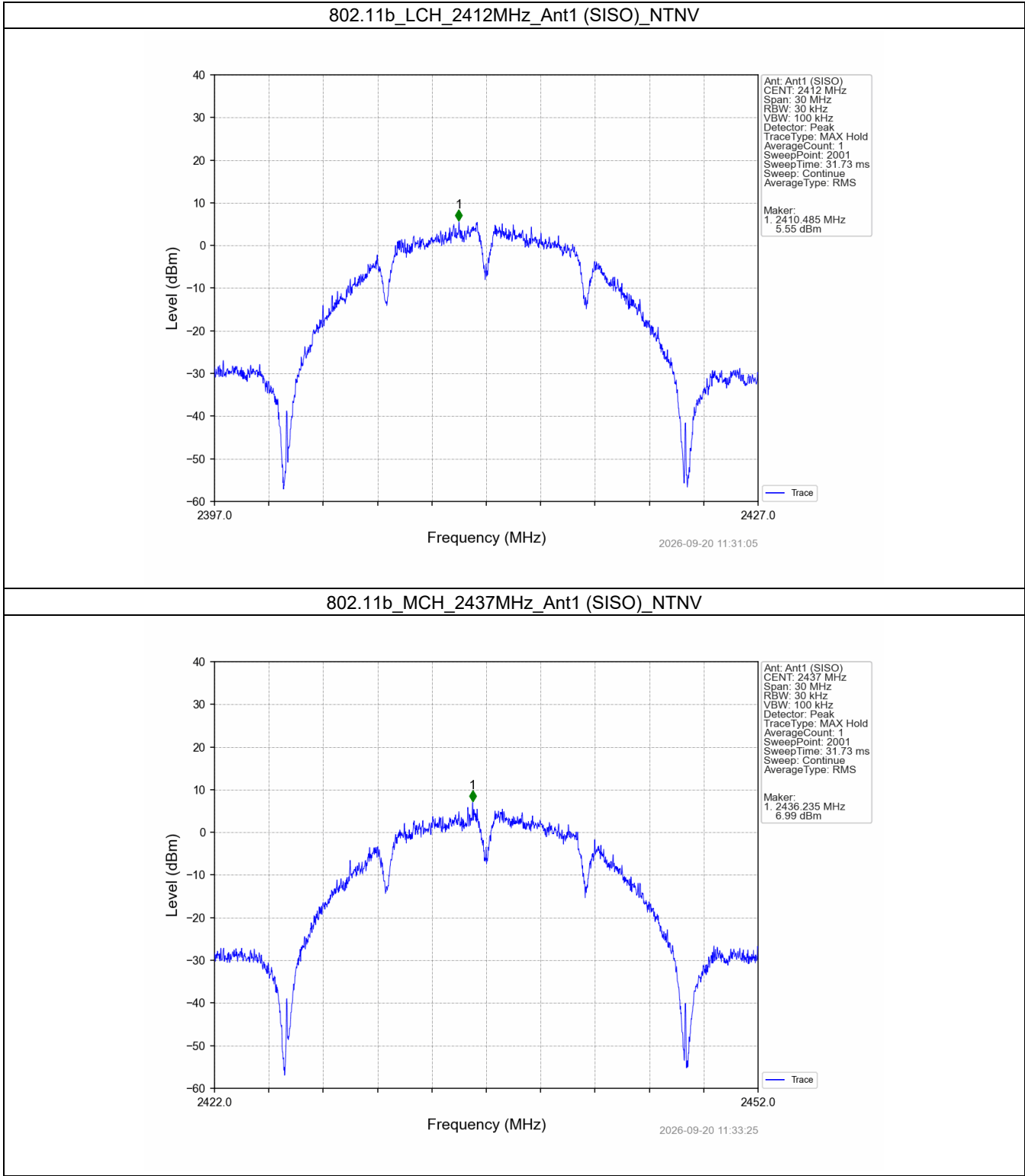
4.1 Test Result

4.1.1 PSD

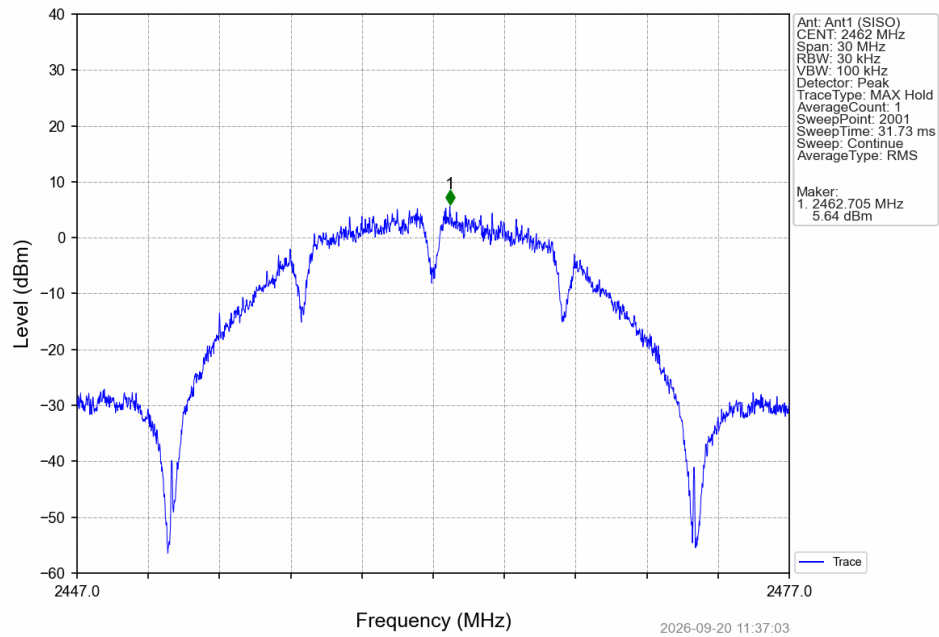
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	/	/	5.55dBm/30kHz	<=8	Pass
		2437	/	/	6.99dBm/30kHz	<=8	Pass
		2462	/	/	5.64dBm/30kHz	<=8	Pass
802.11g	SISO	2412	/	/	7.90dBm/100kHz	<=8	Pass
		2437	/	/	7.06dBm/100kHz	<=8	Pass
		2462	/	/	7.31dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	3.14dBm/30kHz	<=8	Pass
		2437	/	/	7.17dBm/100kHz	<=8	Pass
		2462	/	/	5.92dBm/100kHz	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	4.44dBm/100kHz	<=8	Pass
		2437	/	/	4.21dBm/100kHz	<=8	Pass
		2452	/	/	4.17dBm/100kHz	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	3.06dBm/30kHz	<=8	Pass
		2437	SU	/	7.72dBm/100kHz	<=8	Pass
		2462	SU	/	7.19dBm/100kHz	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	4.07dBm/100kHz	<=8	Pass
		2437	SU	/	4.70dBm/100kHz	<=8	Pass
		2452	SU	/	4.51dBm/100kHz	<=8	Pass

4.2 Test Graph

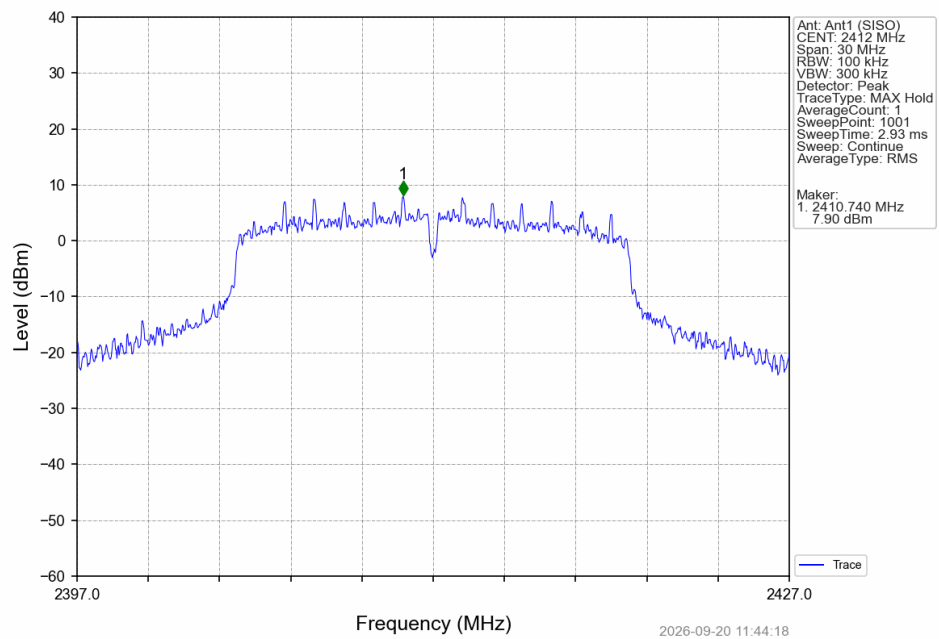
4.2.1 PSD



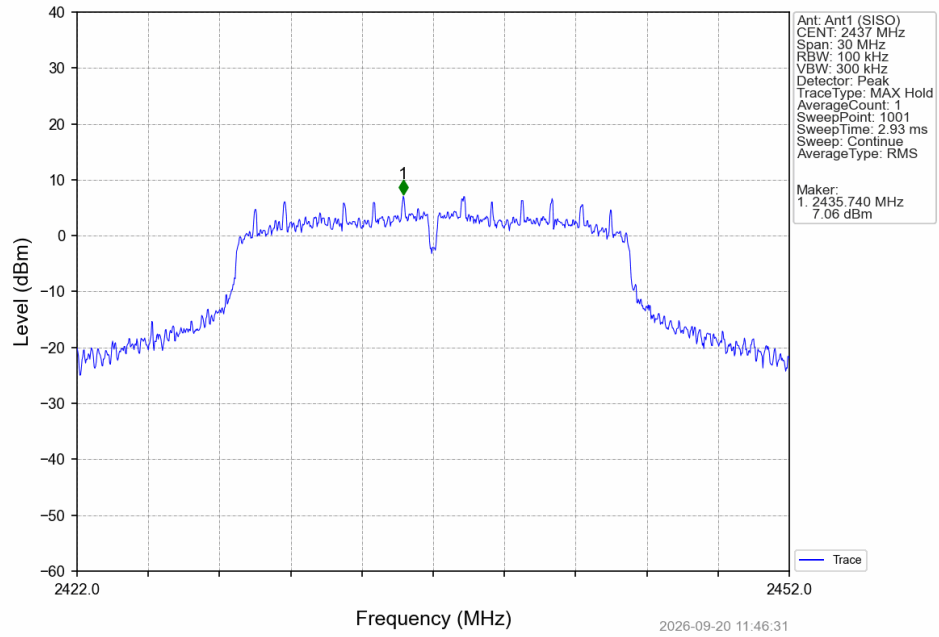
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



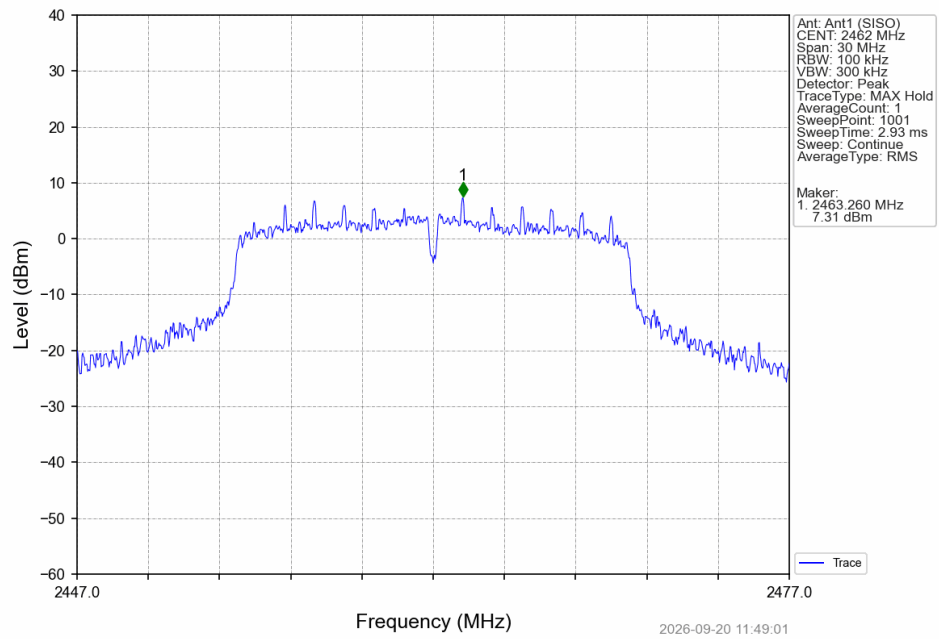
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



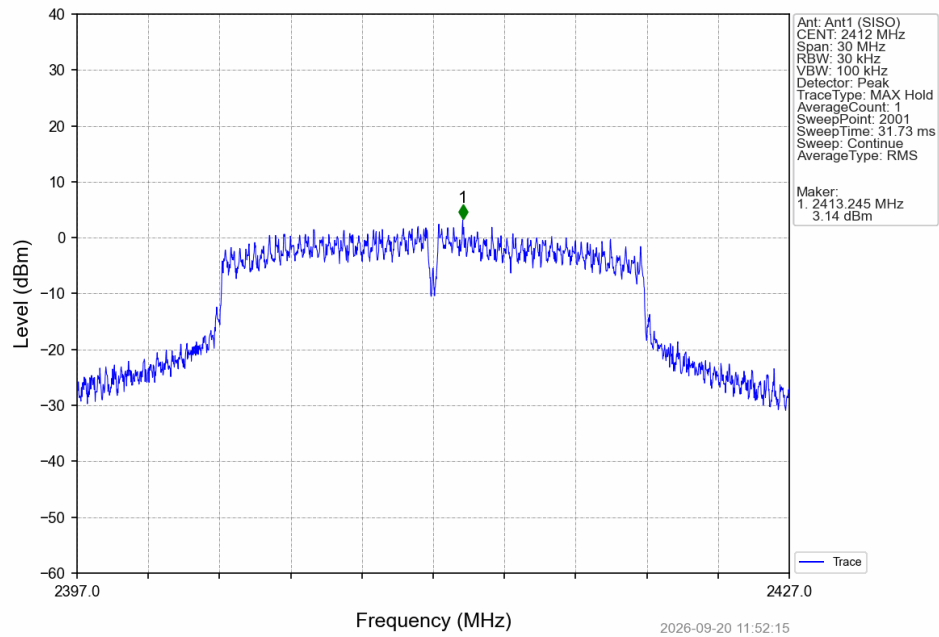
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



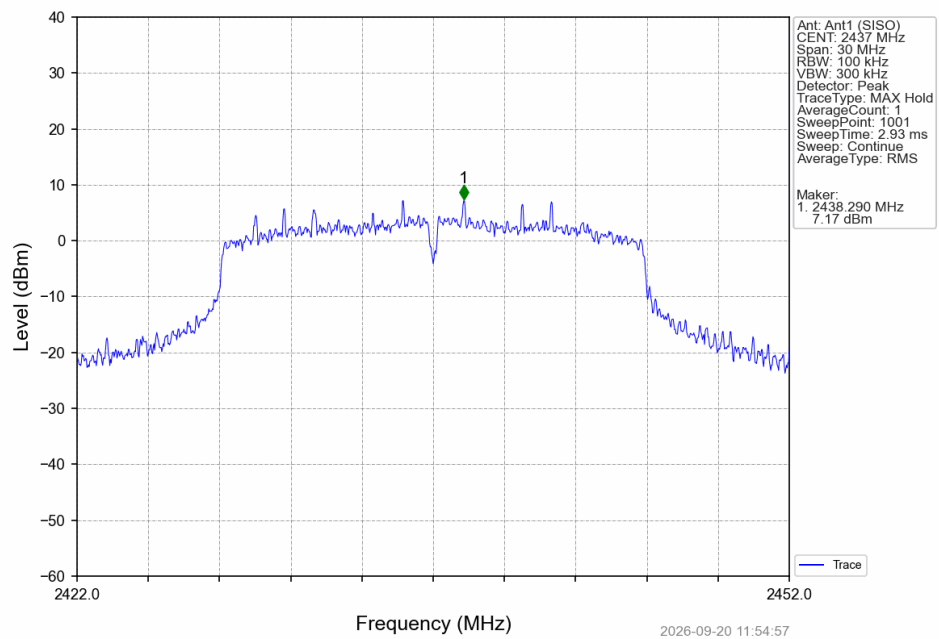
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



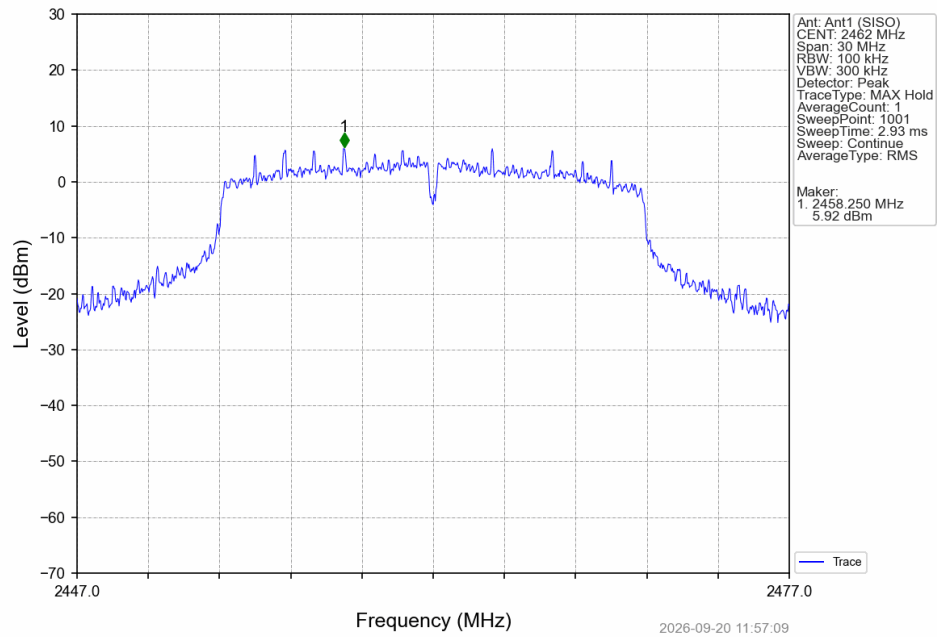
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



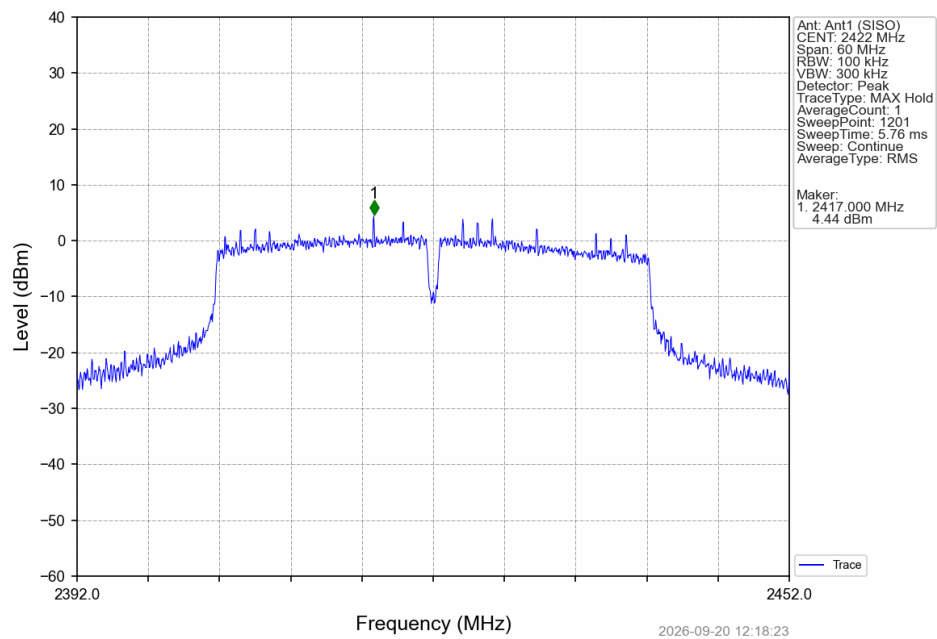
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



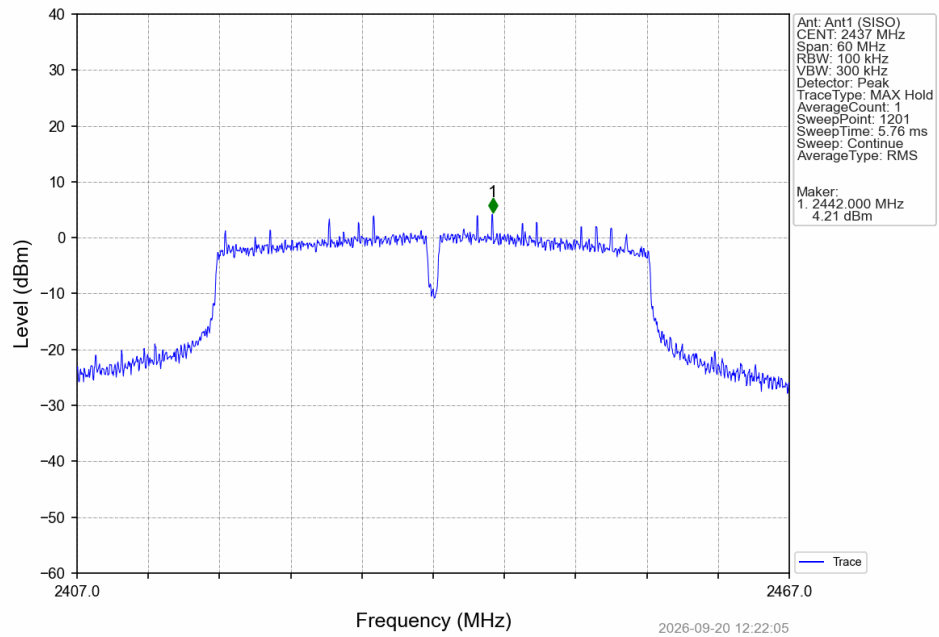
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



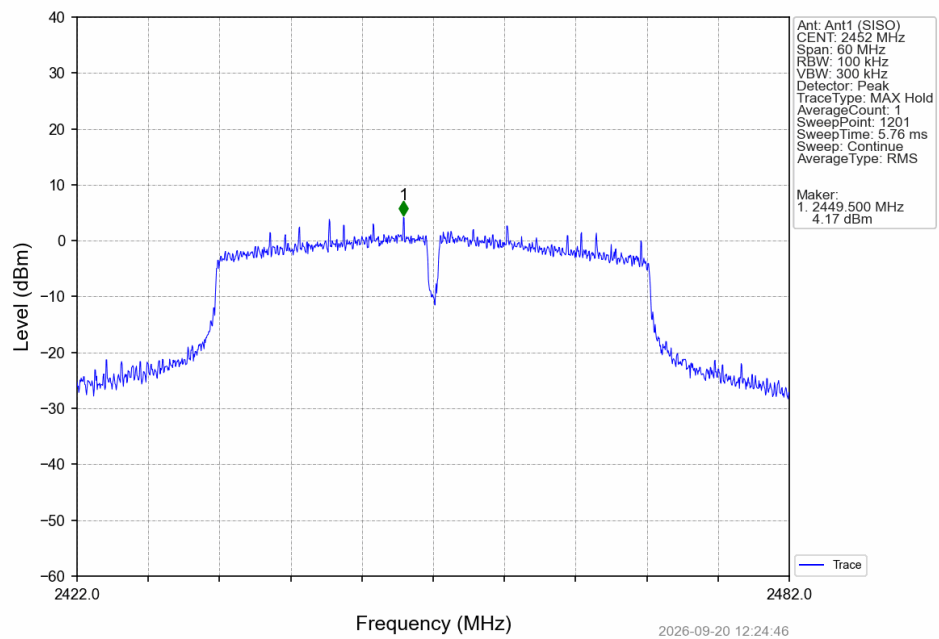
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



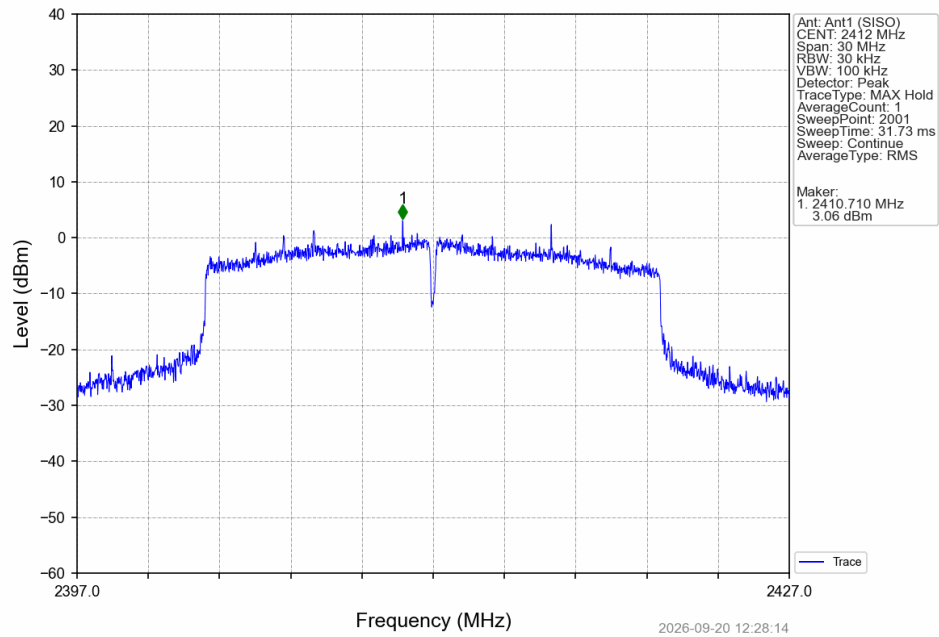
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



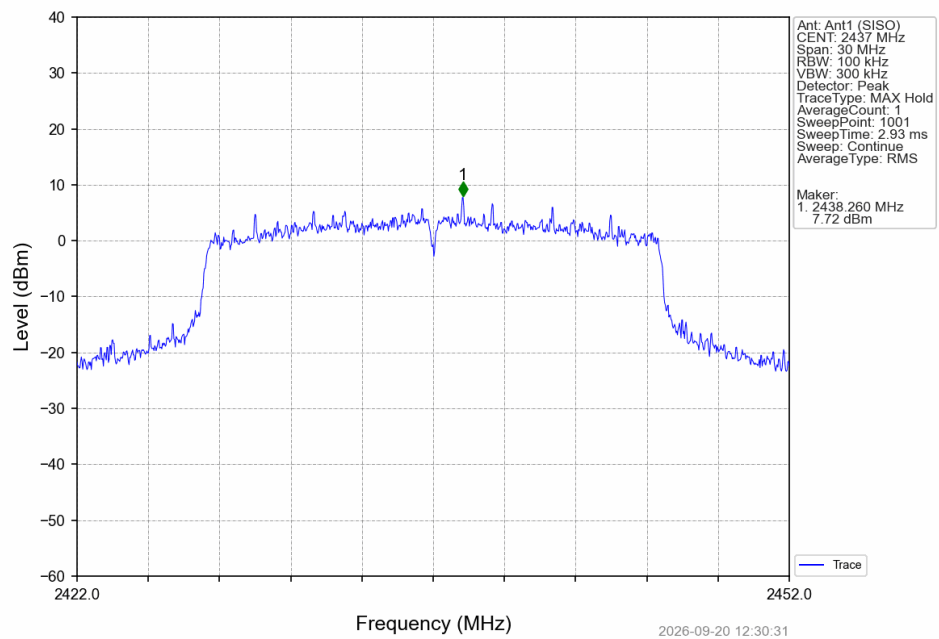
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



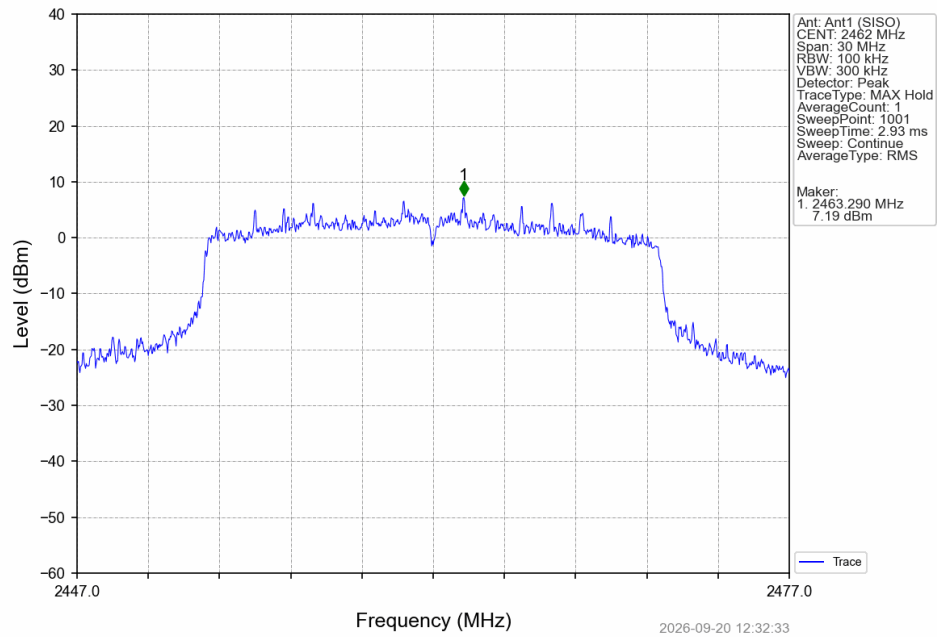
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



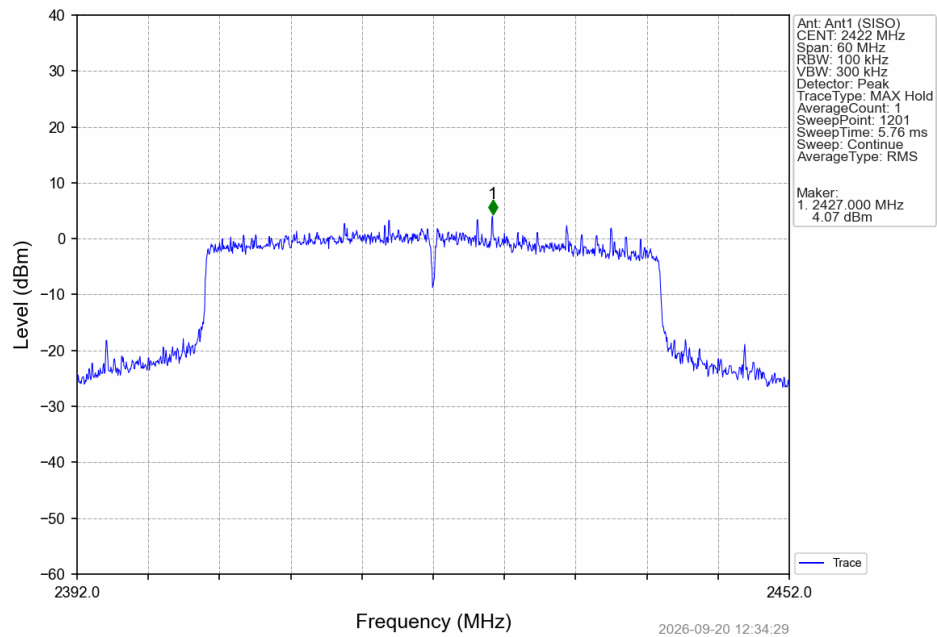
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



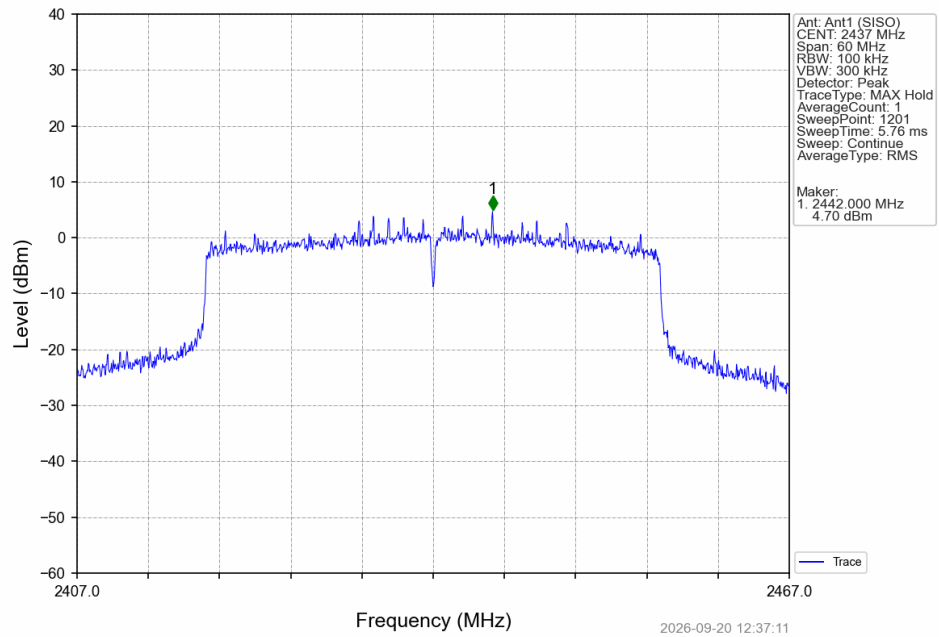
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



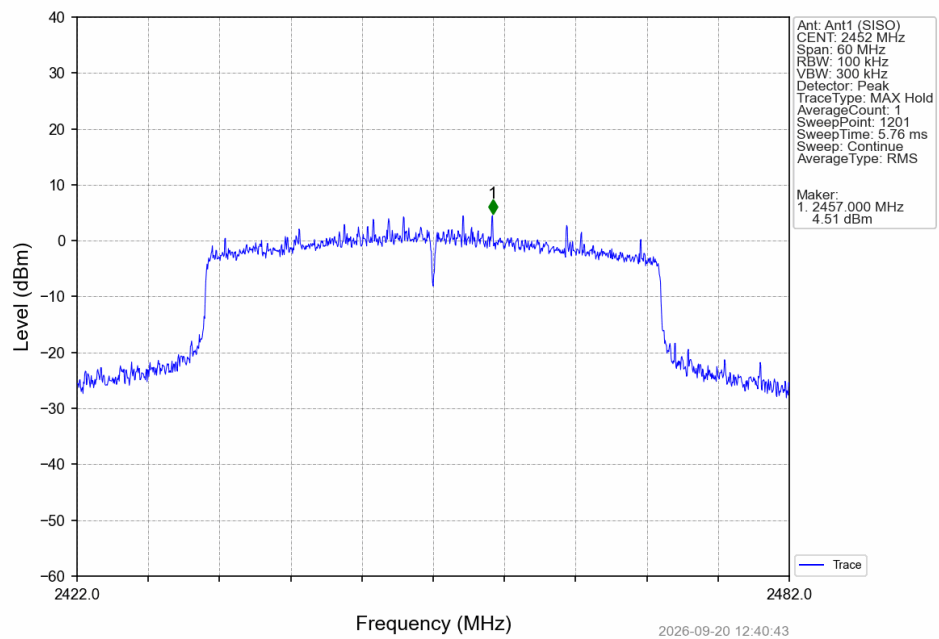
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

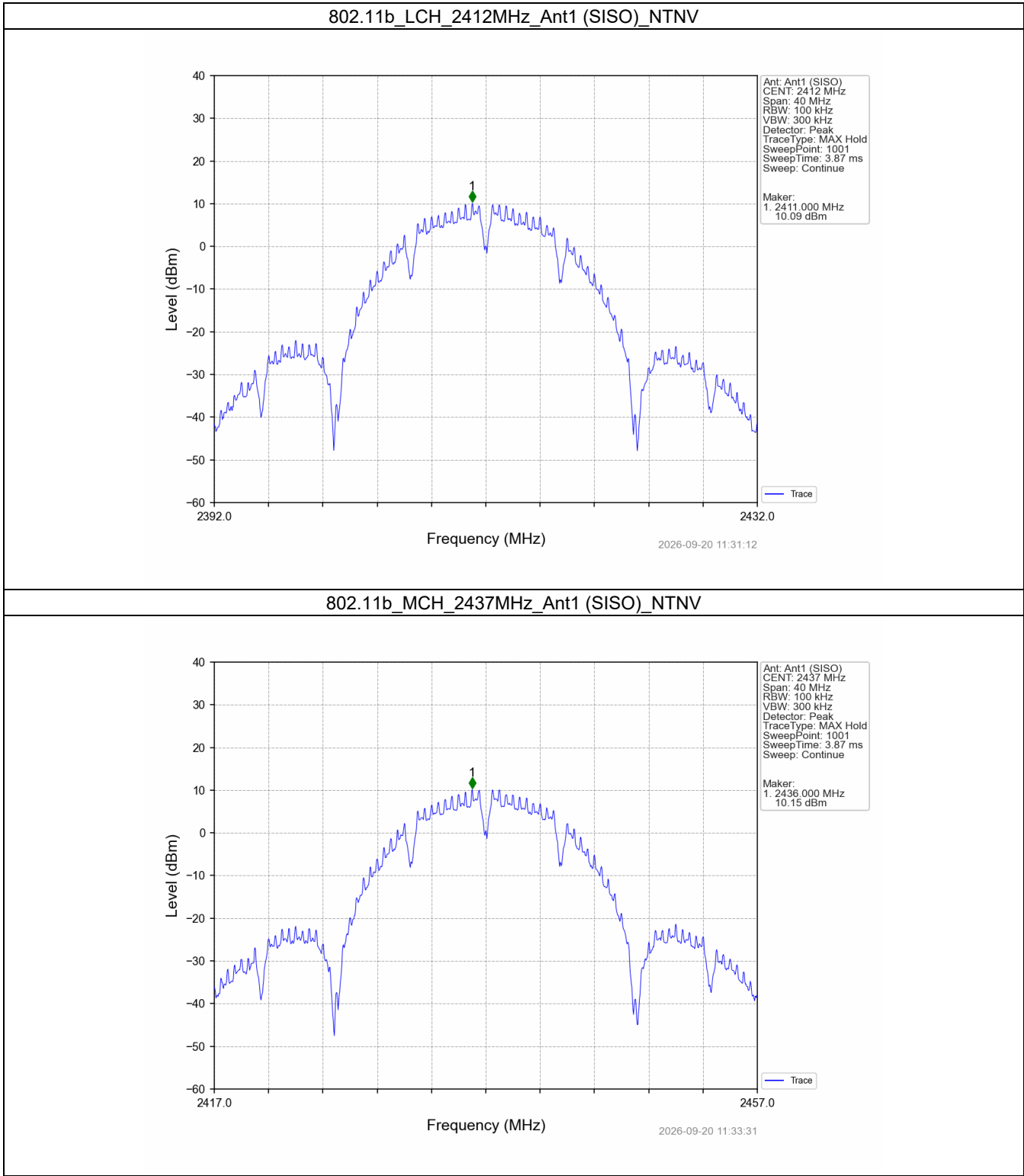
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	10.09
		2437	/	/	1	10.15
		2462	/	/	1	10.13
802.11g	SISO	2412	/	/	1	7.66
		2437	/	/	1	7.82
		2462	/	/	1	7.41
802.11n (HT20)	SISO	2412	/	/	1	7.02
		2437	/	/	1	6.66
		2462	/	/	1	6.23
802.11n (HT40)	SISO	2422	/	/	1	3.07
		2437	/	/	1	4.20
		2452	/	/	1	4.07
802.11ax (HEW20)	SISO	2412	SU	/	1	8.33
		2437	SU	/	1	7.28
		2462	SU	/	1	6.22
802.11ax (HEW40)	SISO	2422	SU	/	1	4.13
		2437	SU	/	1	3.56
		2452	SU	/	1	4.51

5.1.2 CSE

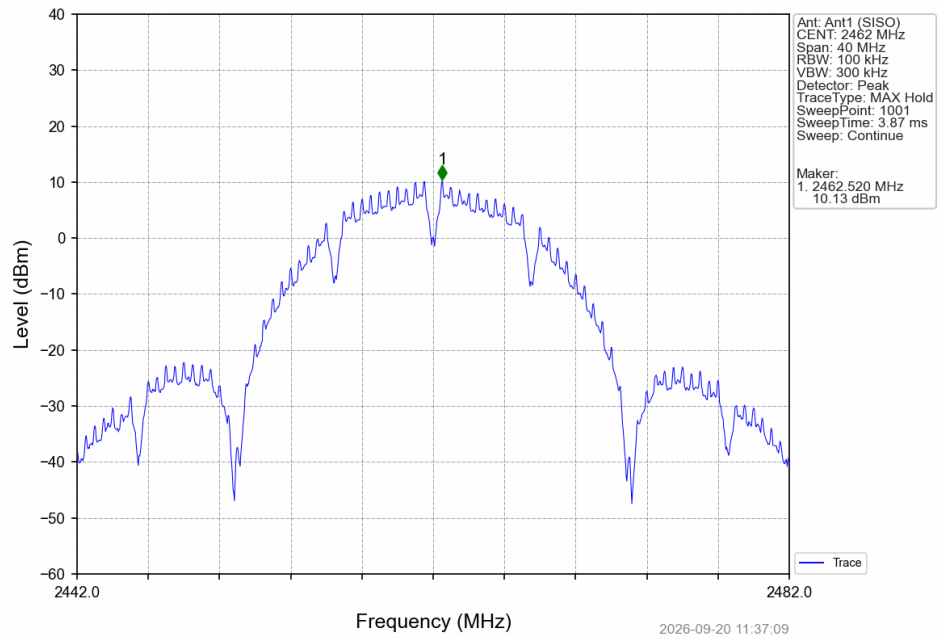
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	10.09	-9.91	Pass
		2437	/	/	1	10.15	-9.85	Pass
		2462	/	/	1	10.13	-9.87	Pass
802.11g	SISO	2412	/	/	1	7.66	-12.34	Pass
		2437	/	/	1	7.82	-12.18	Pass
		2462	/	/	1	7.41	-12.59	Pass
802.11n (HT20)	SISO	2412	/	/	1	7.02	-12.98	Pass
		2437	/	/	1	6.66	-13.34	Pass
		2462	/	/	1	6.23	-13.77	Pass
802.11n (HT40)	SISO	2422	/	/	1	3.07	-16.93	Pass
		2437	/	/	1	4.20	-15.80	Pass
		2452	/	/	1	4.07	-15.93	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	8.33	-11.67	Pass
		2437	SU	/	1	7.28	-12.72	Pass
		2462	SU	/	1	6.22	-13.78	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	4.13	-15.87	Pass
		2437	SU	/	1	3.56	-16.44	Pass
		2452	SU	/	1	4.51	-15.49	Pass

5.2 Test Graph

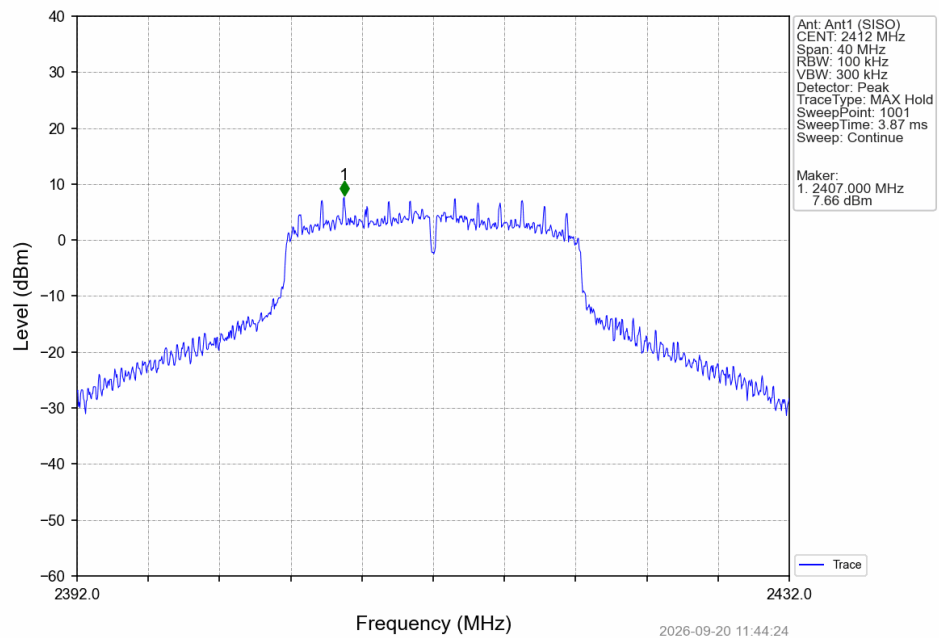
5.2.1 Ref



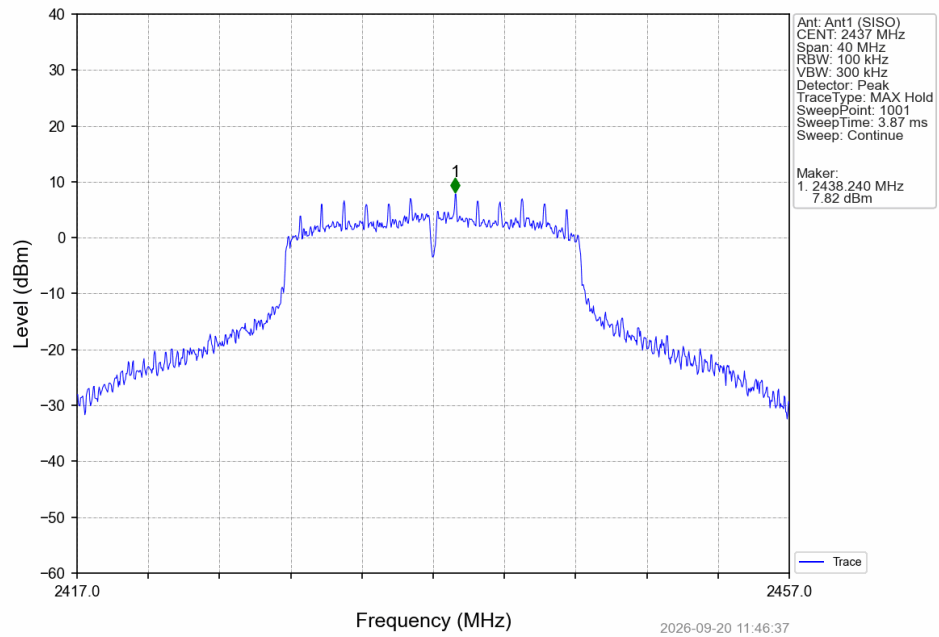
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



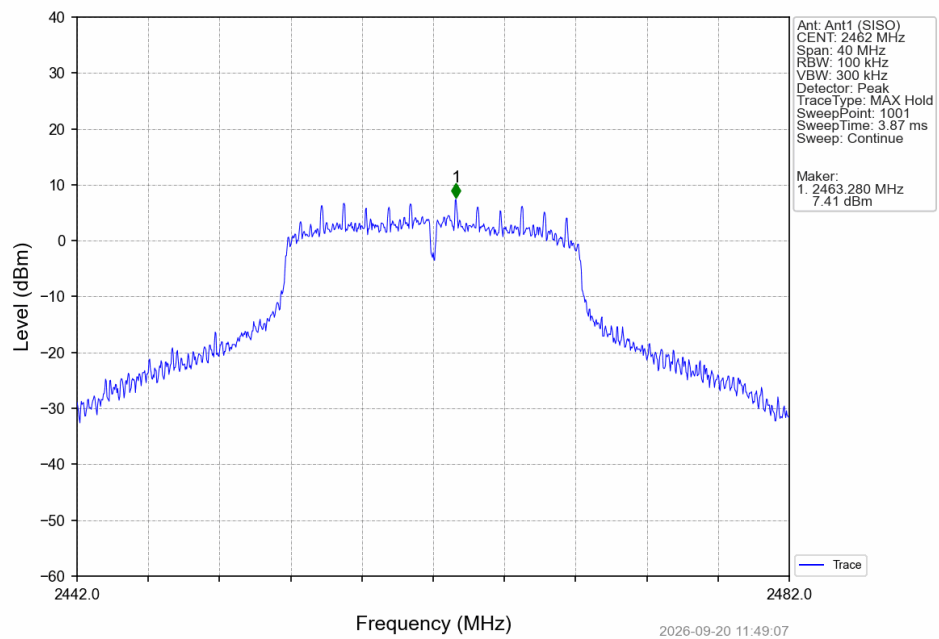
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



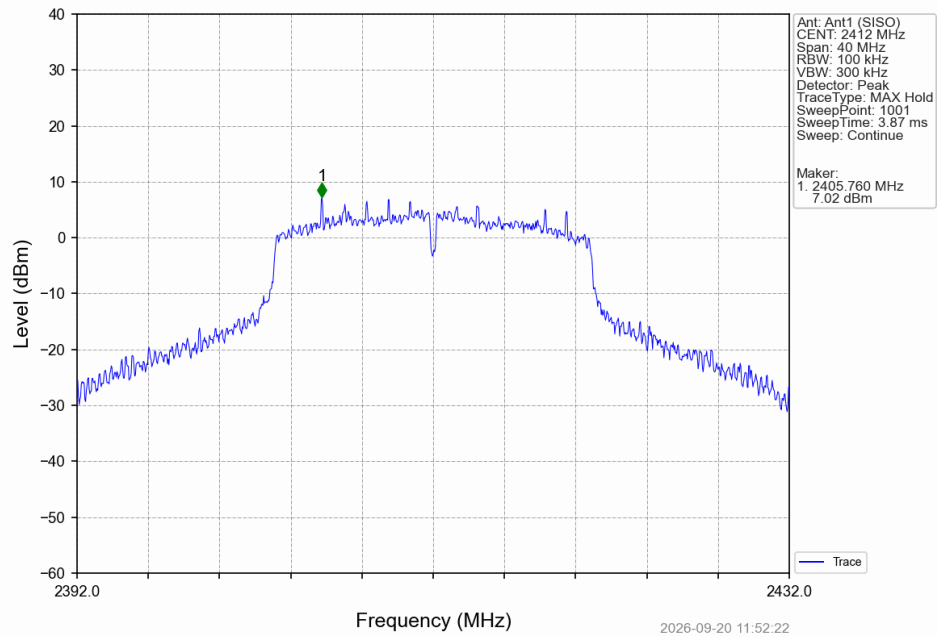
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



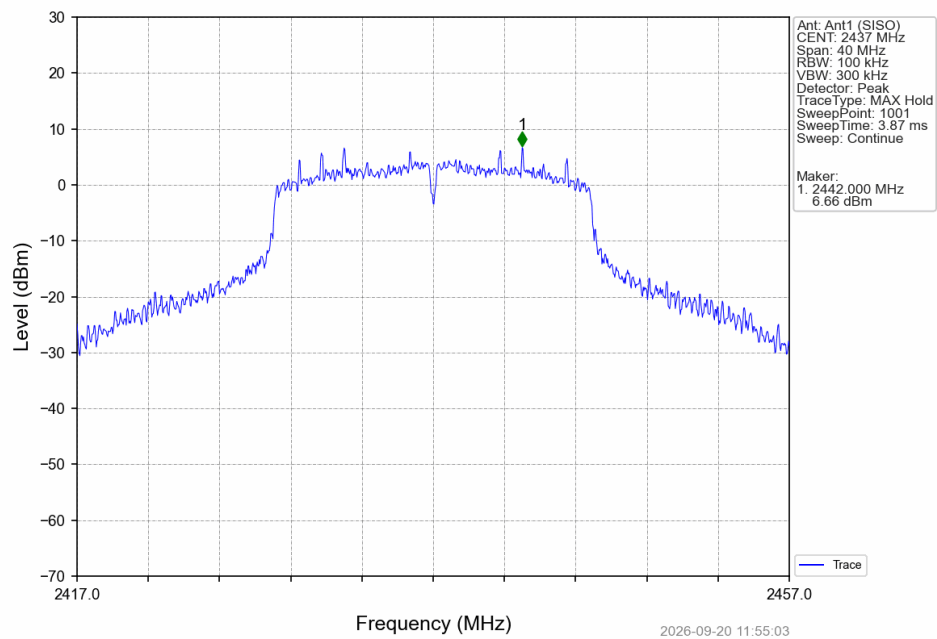
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



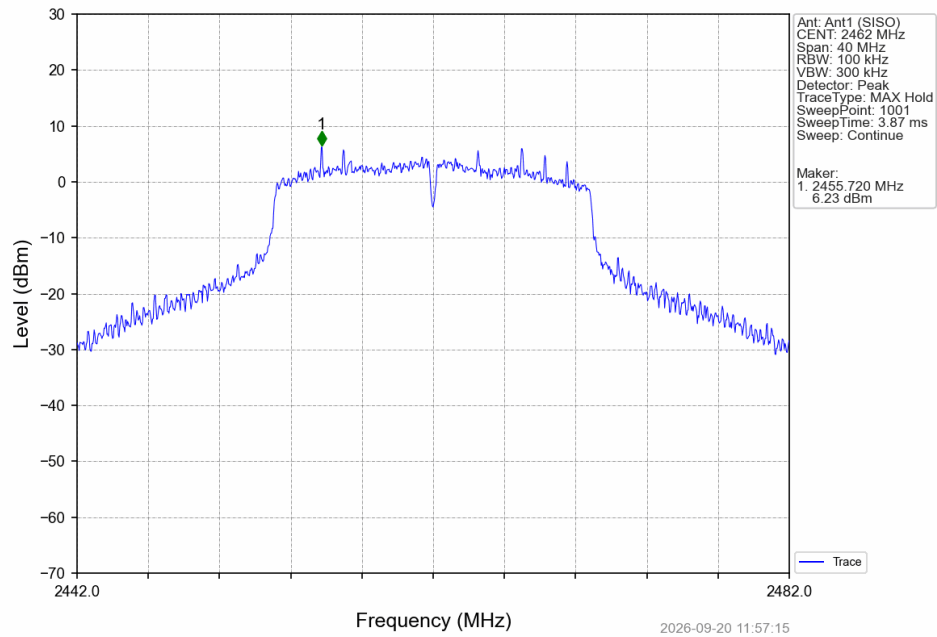
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



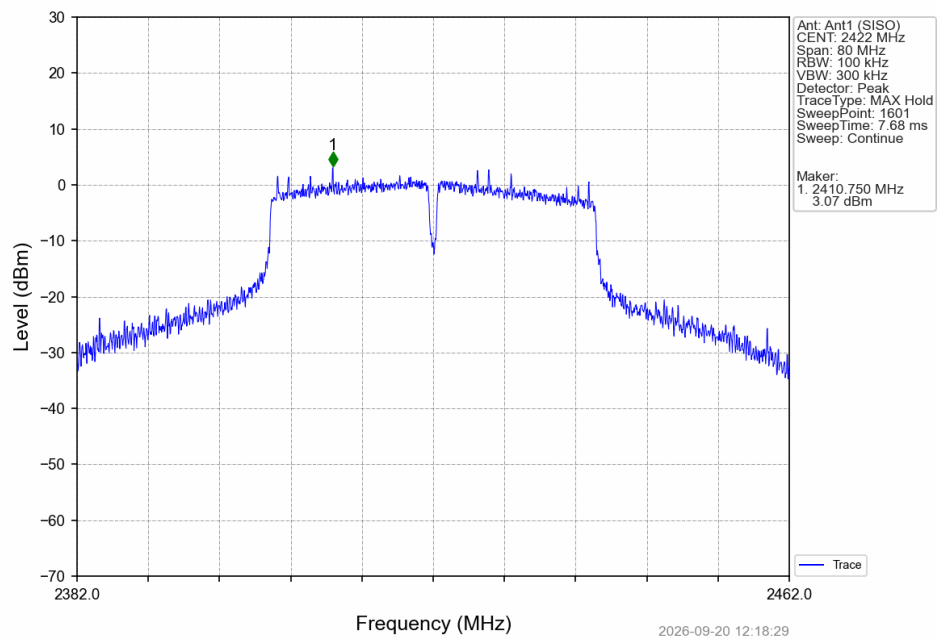
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



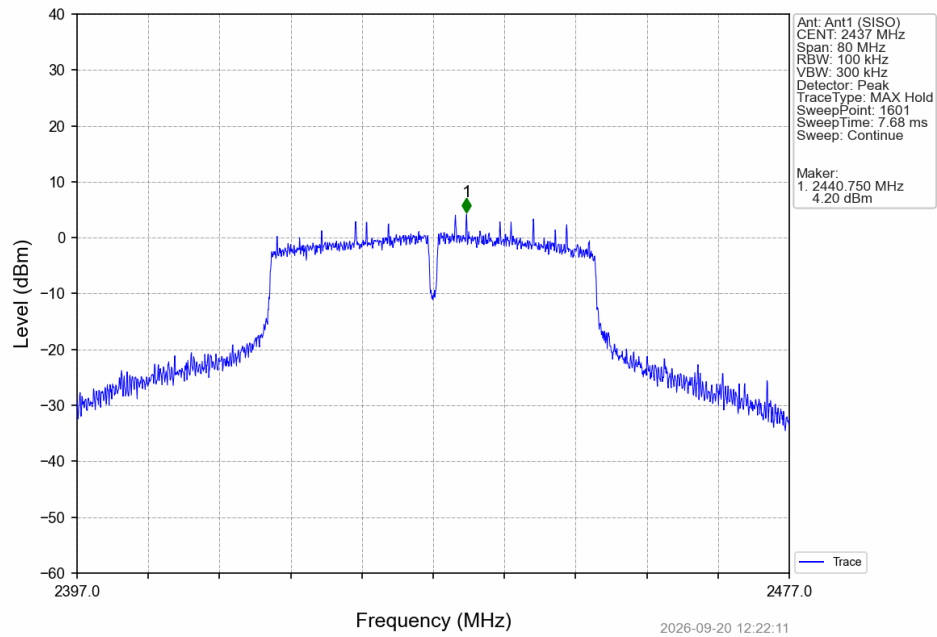
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



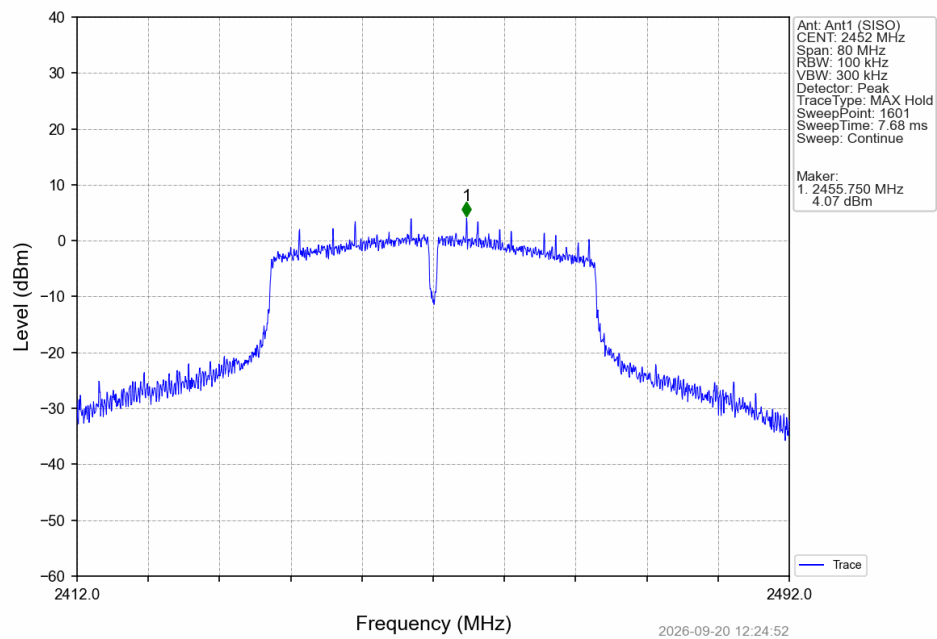
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



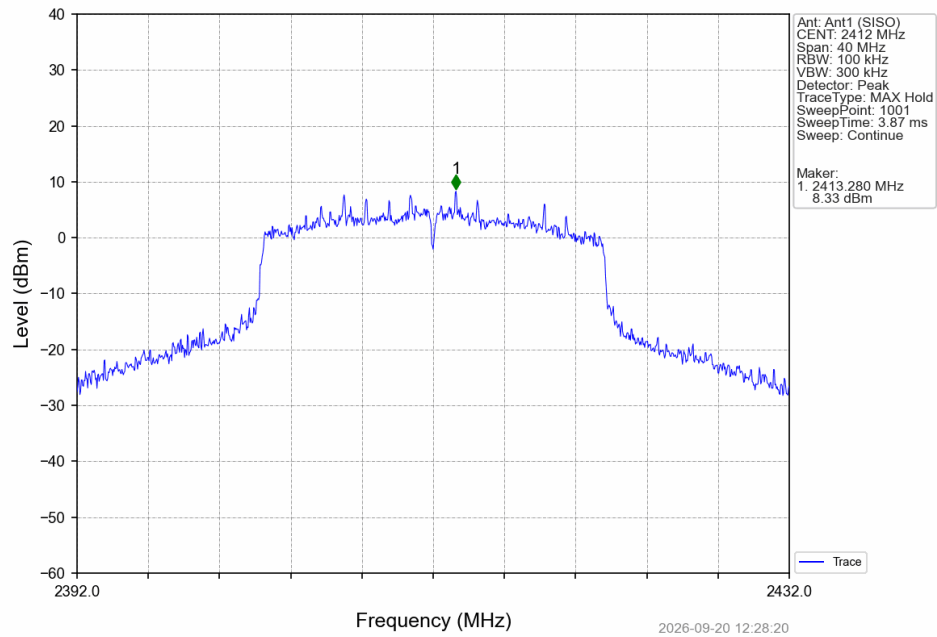
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



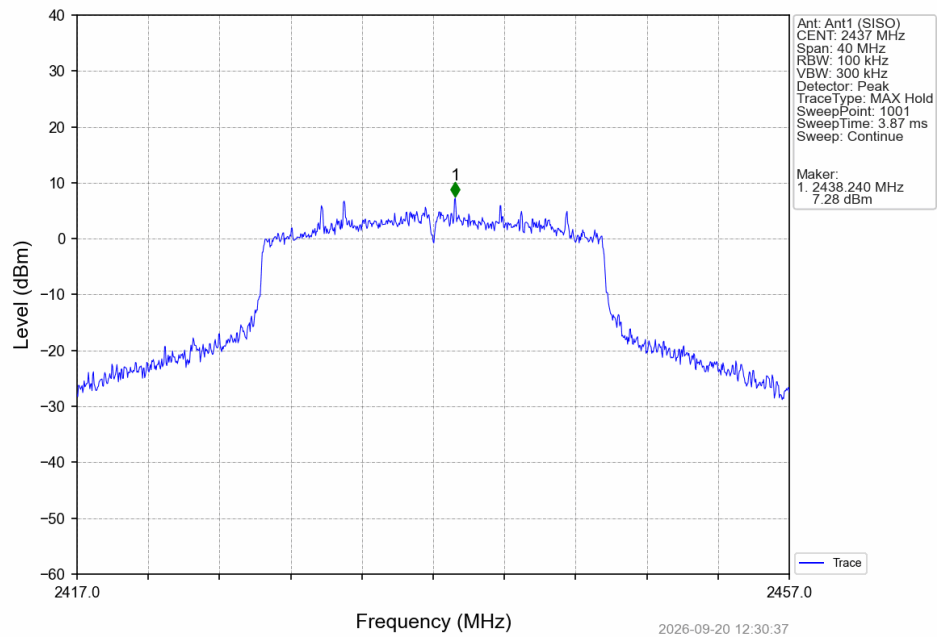
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



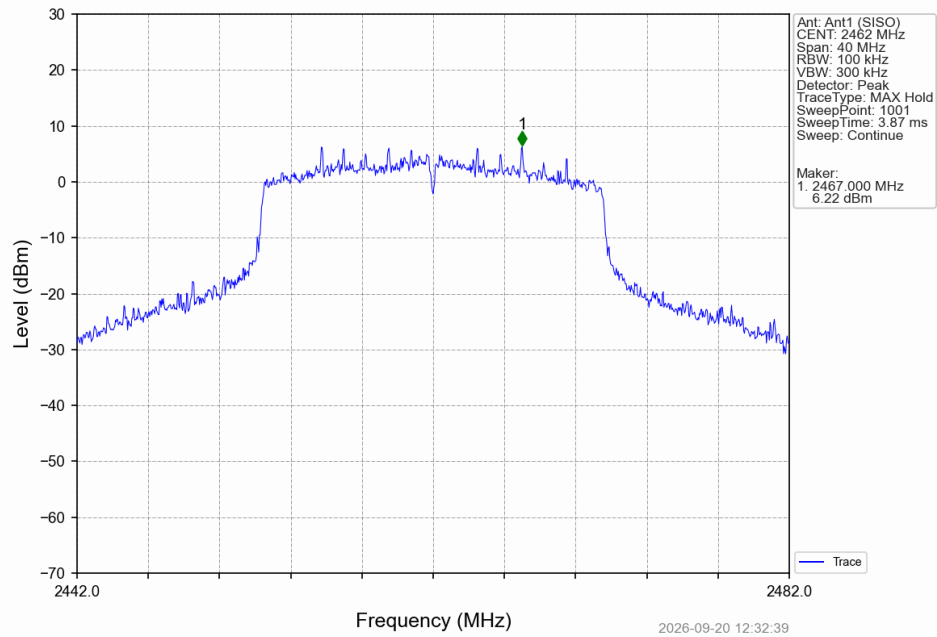
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



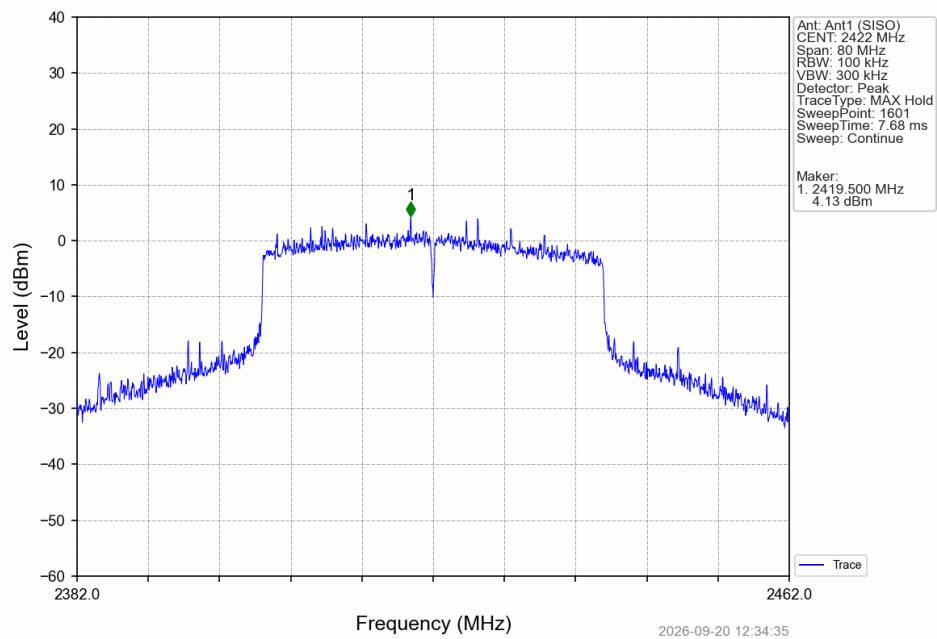
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



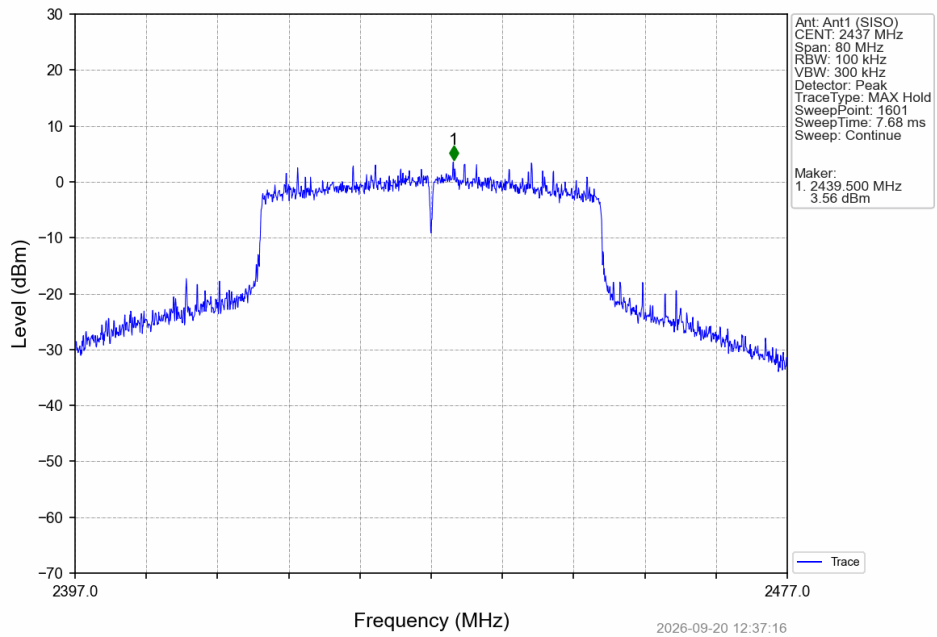
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



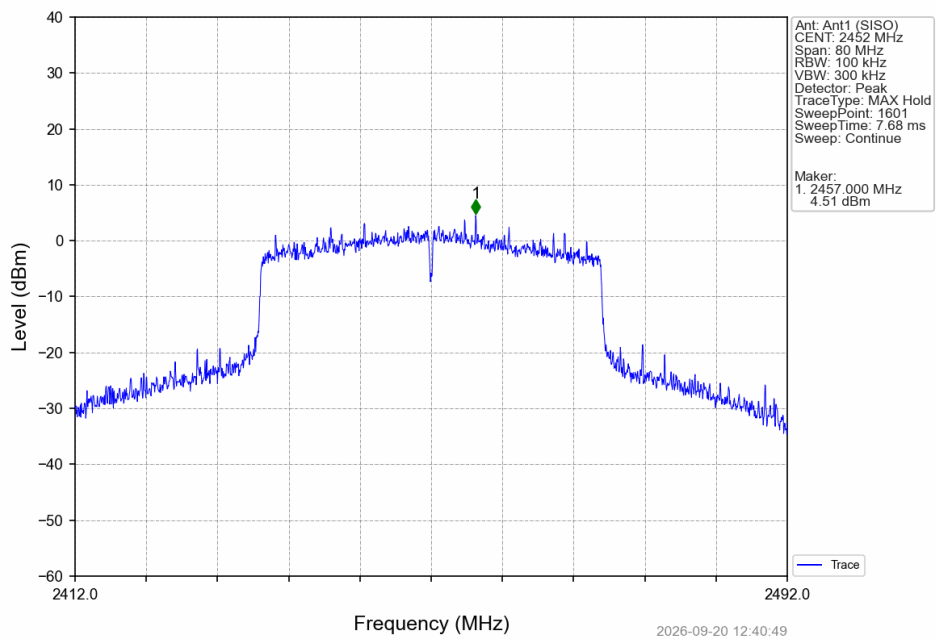
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



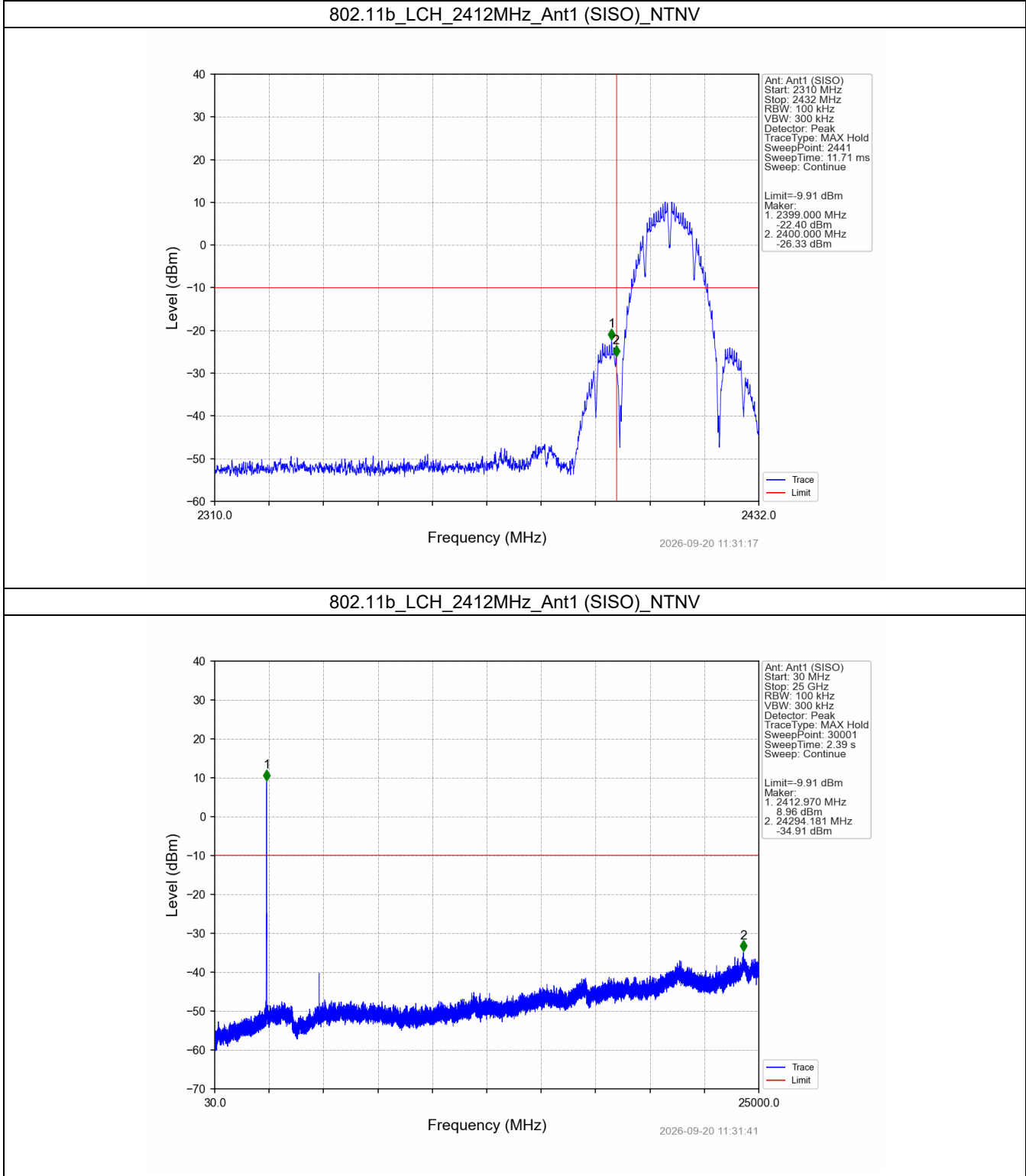
802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



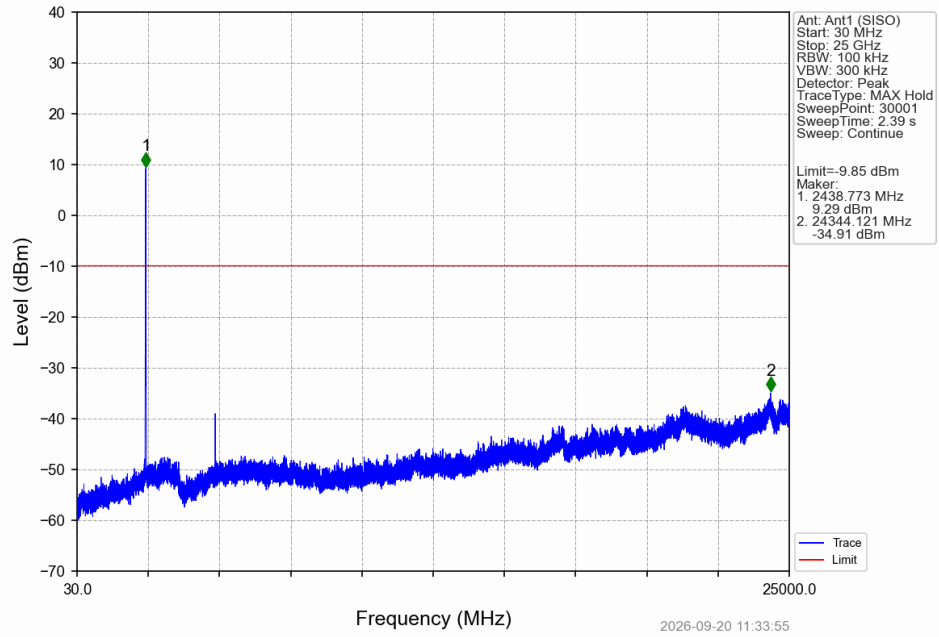
802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



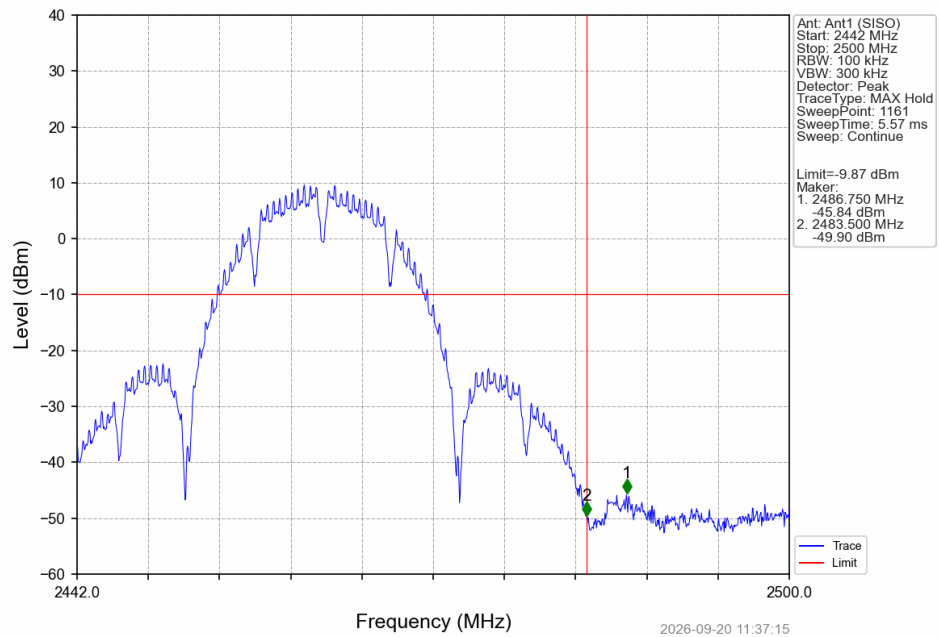
5.2.2 CSE



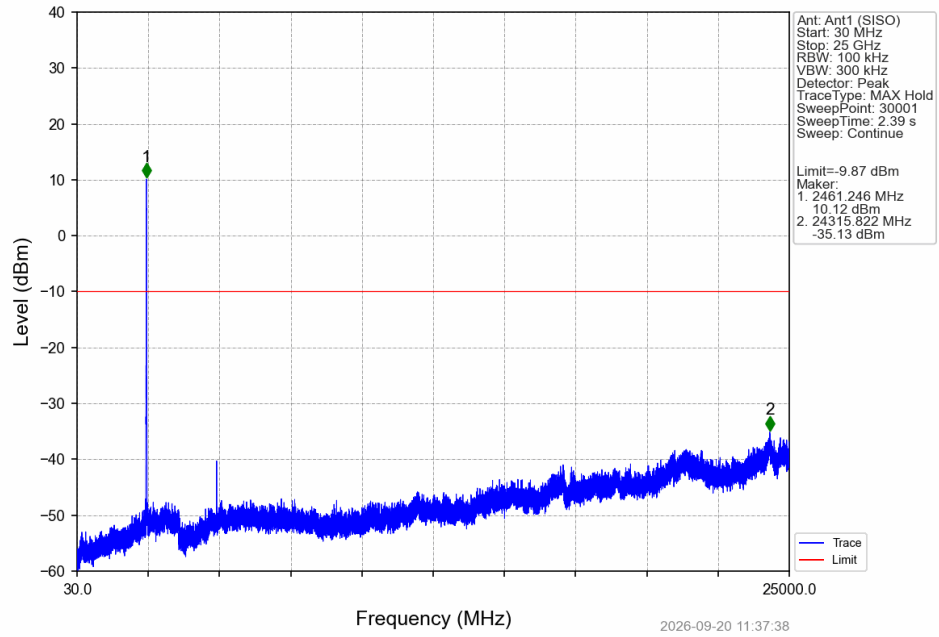
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



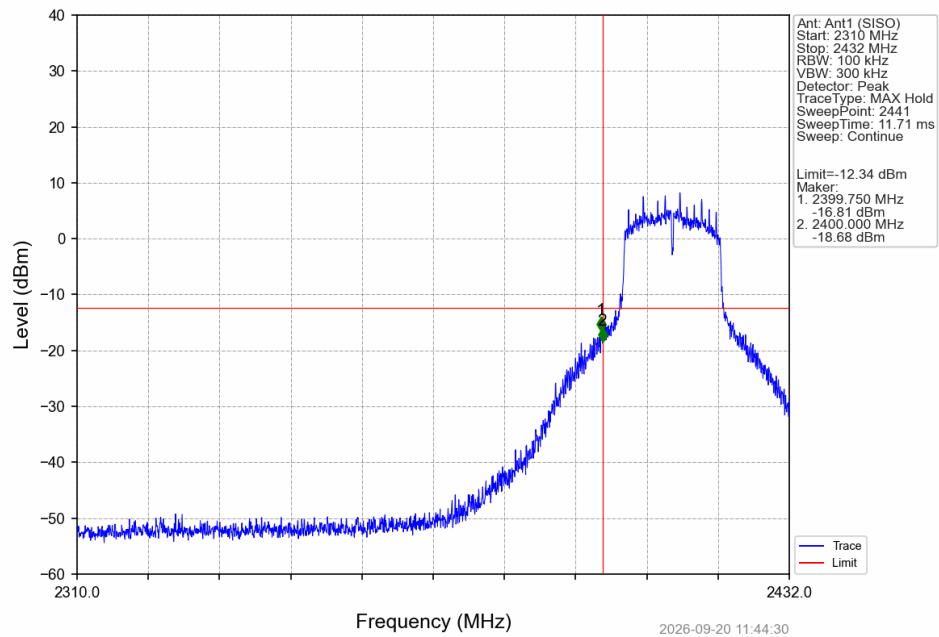
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



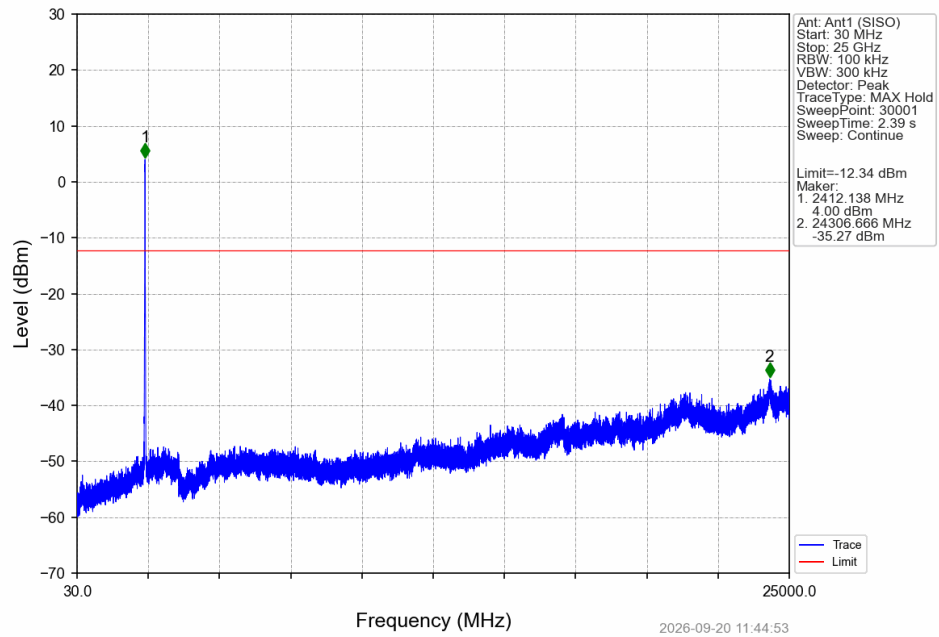
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



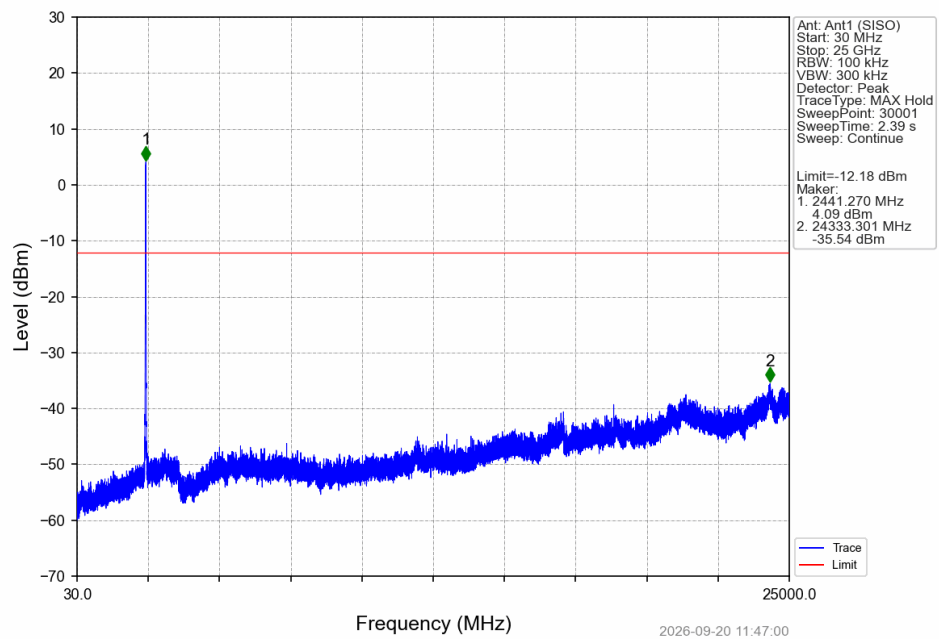
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



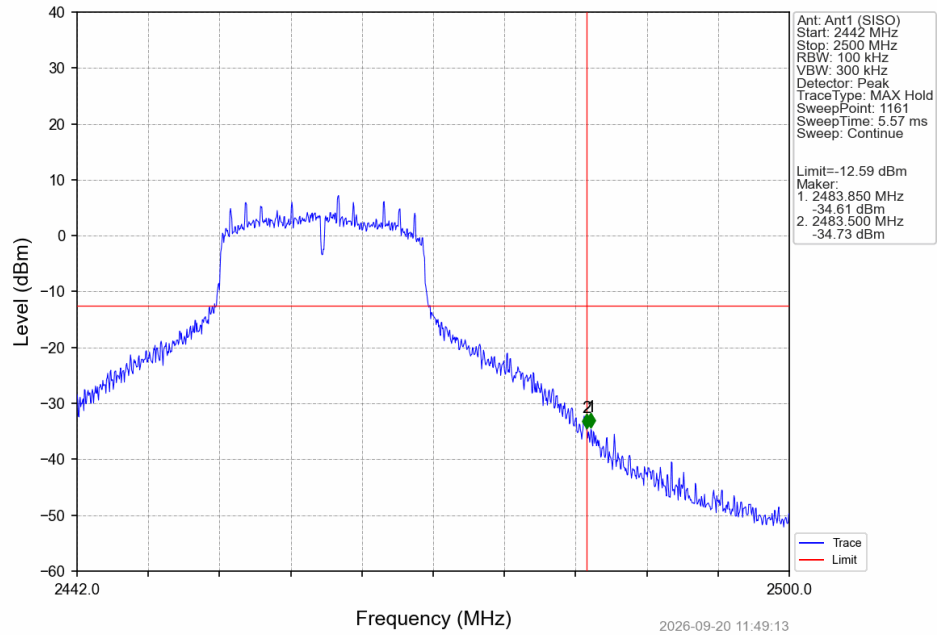
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



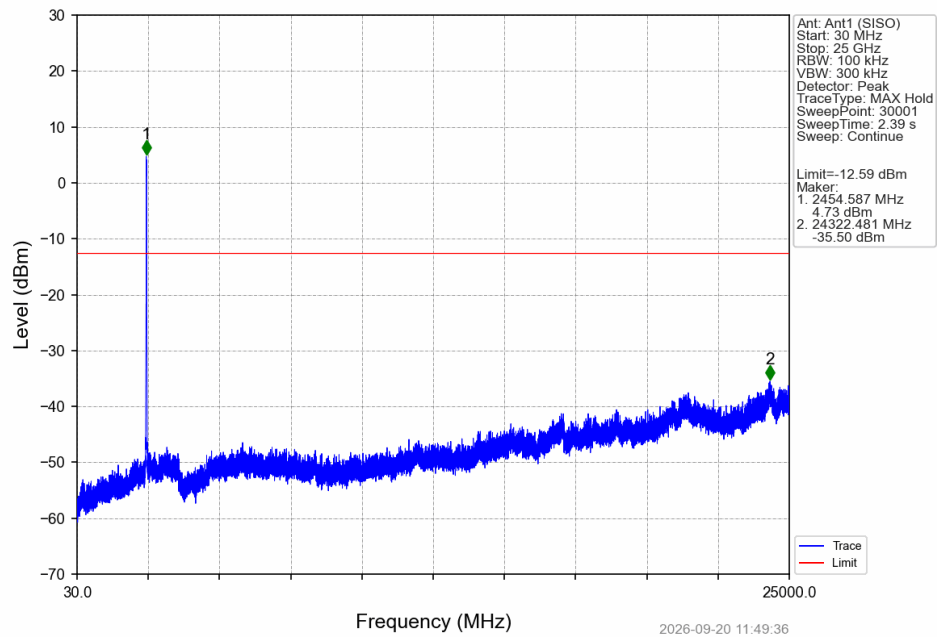
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



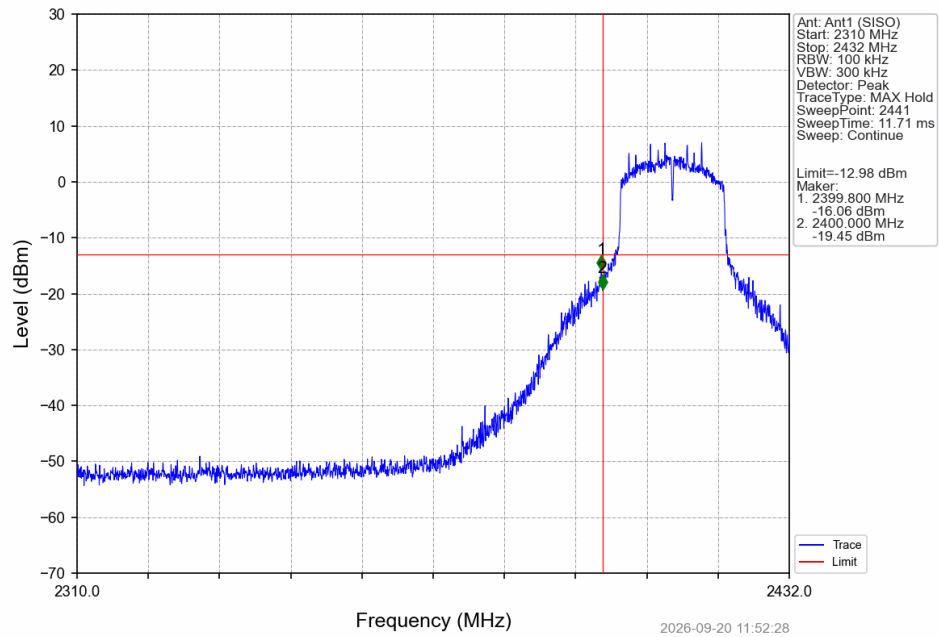
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



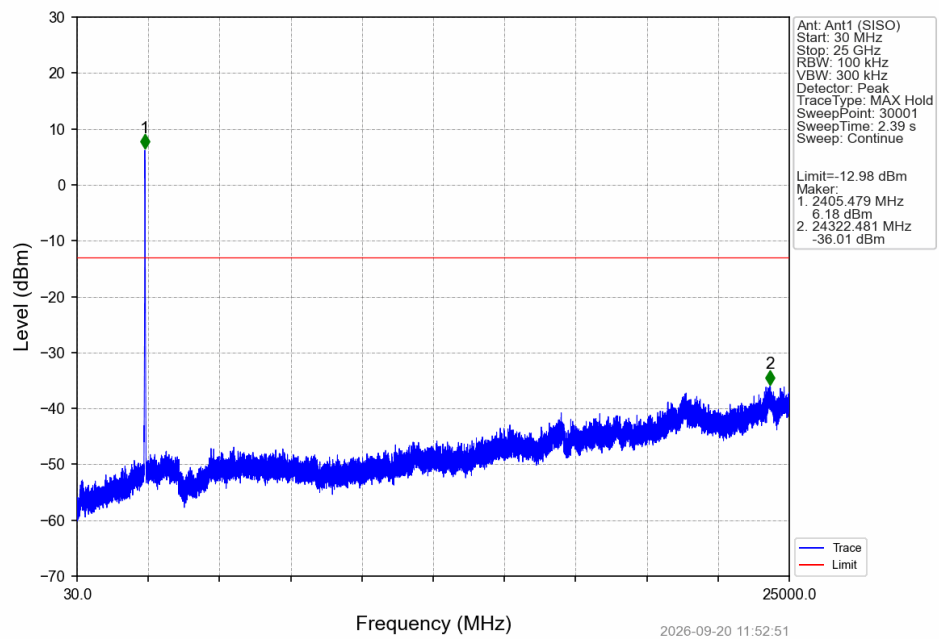
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



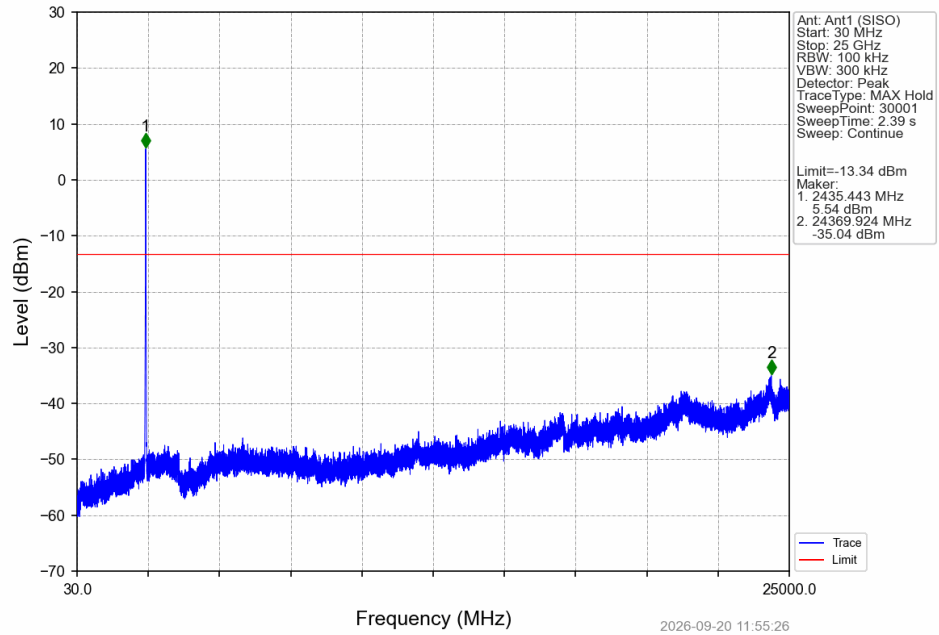
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



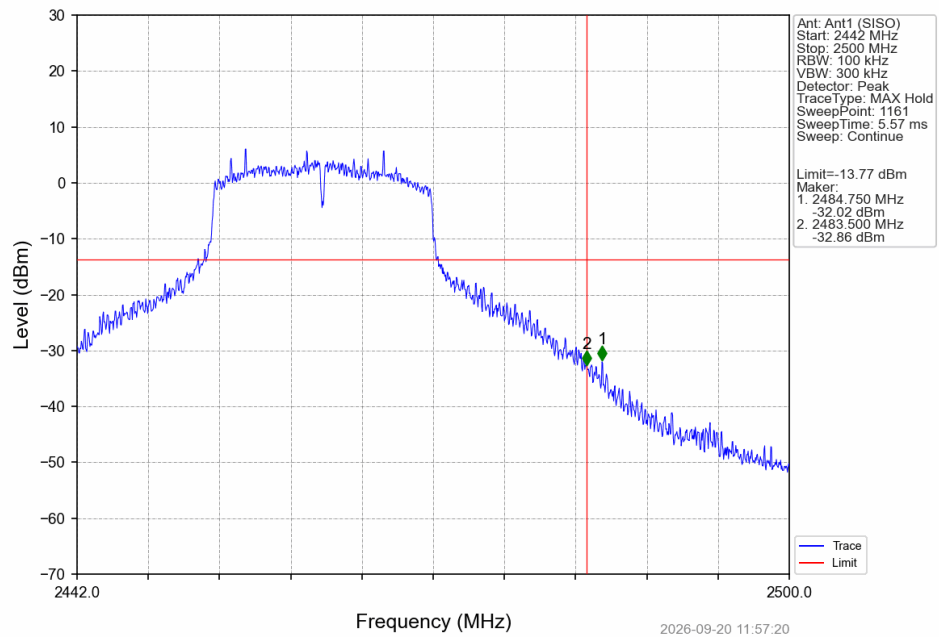
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



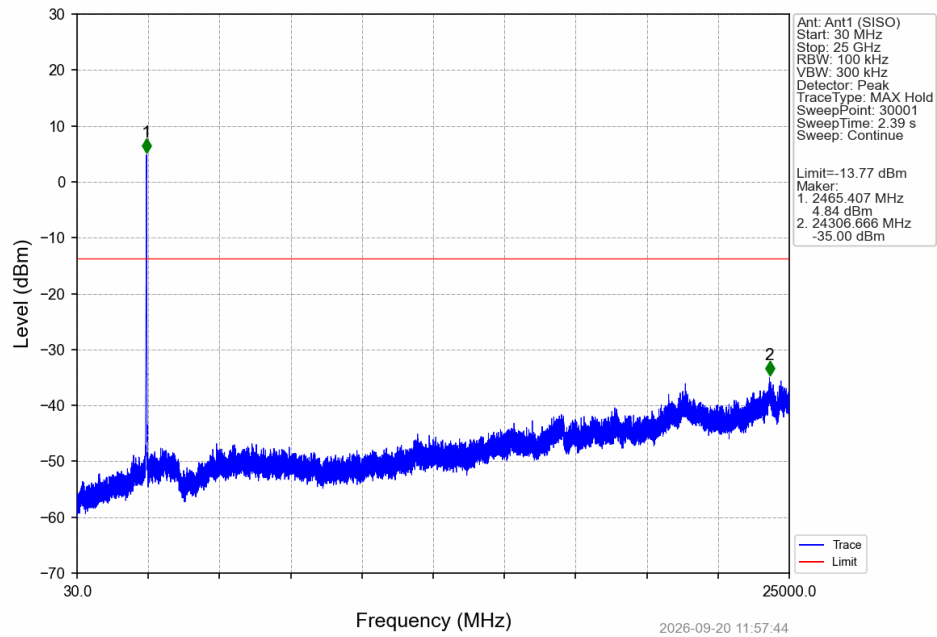
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



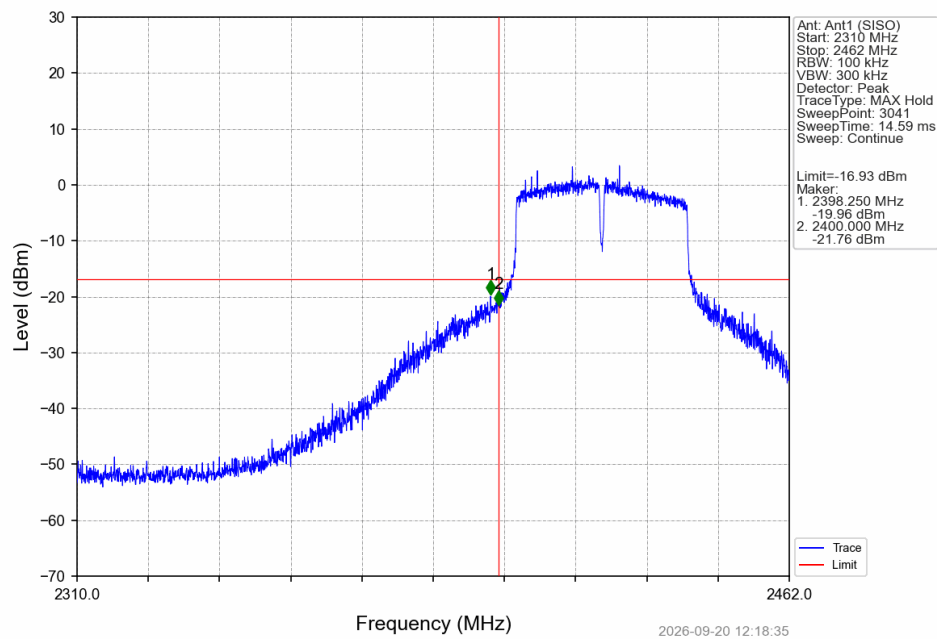
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



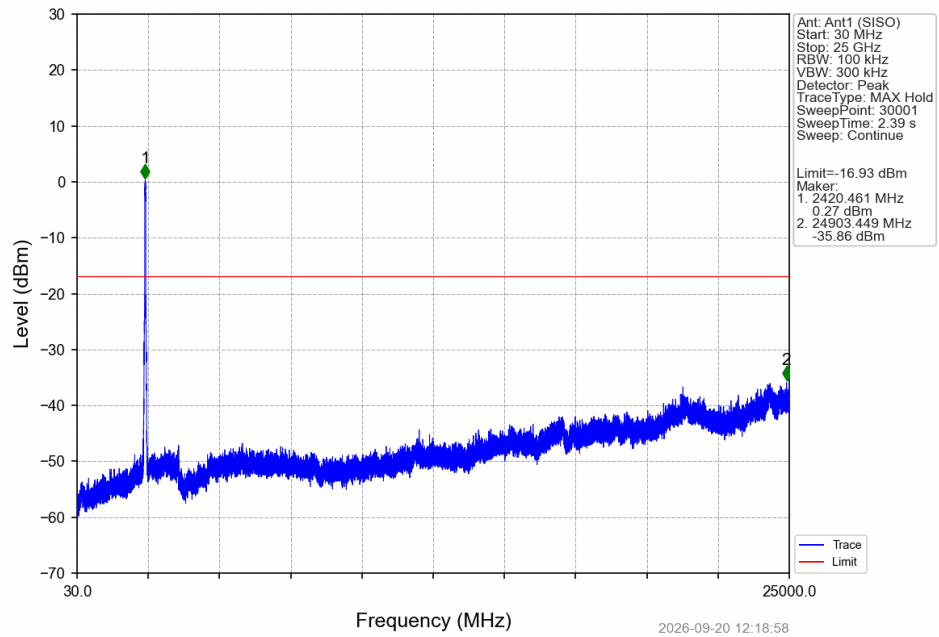
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



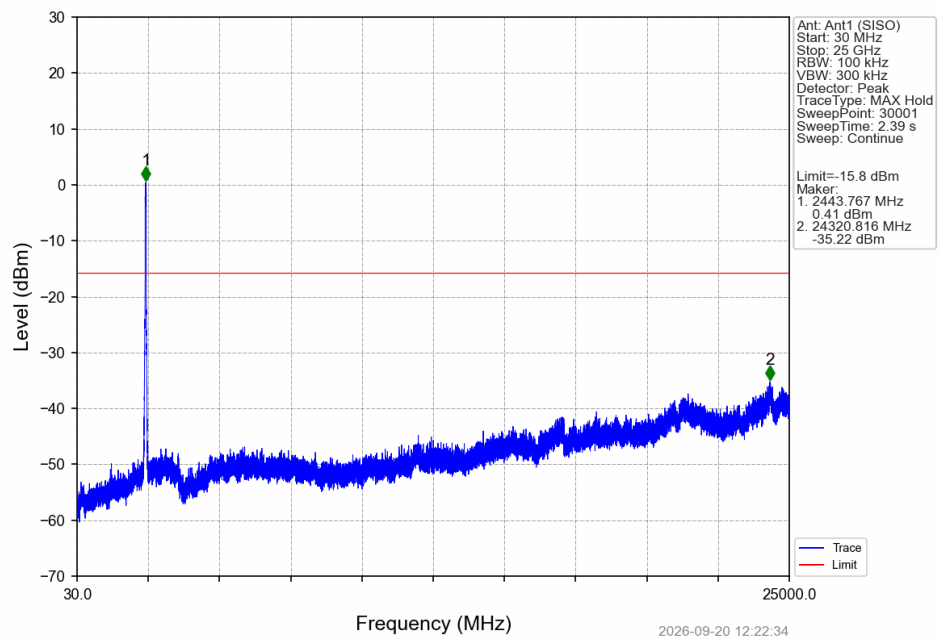
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



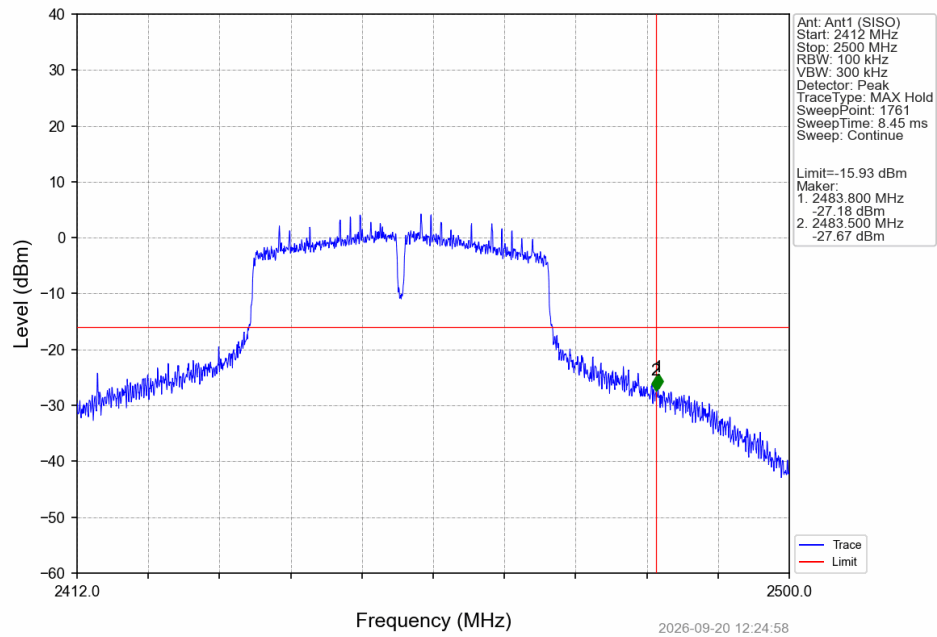
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

