

Appendix RF Test Data for 2.4G WIFI

Company: : LiveX AI Inc

EUT : Holographic AI Avatar Interactive Display

FCC ID: : 2BV7X-TOWER

Model Number : Tower

Report No. : HTT2026031176F01

Reviewed By : Heber He

1. Duty Cycle

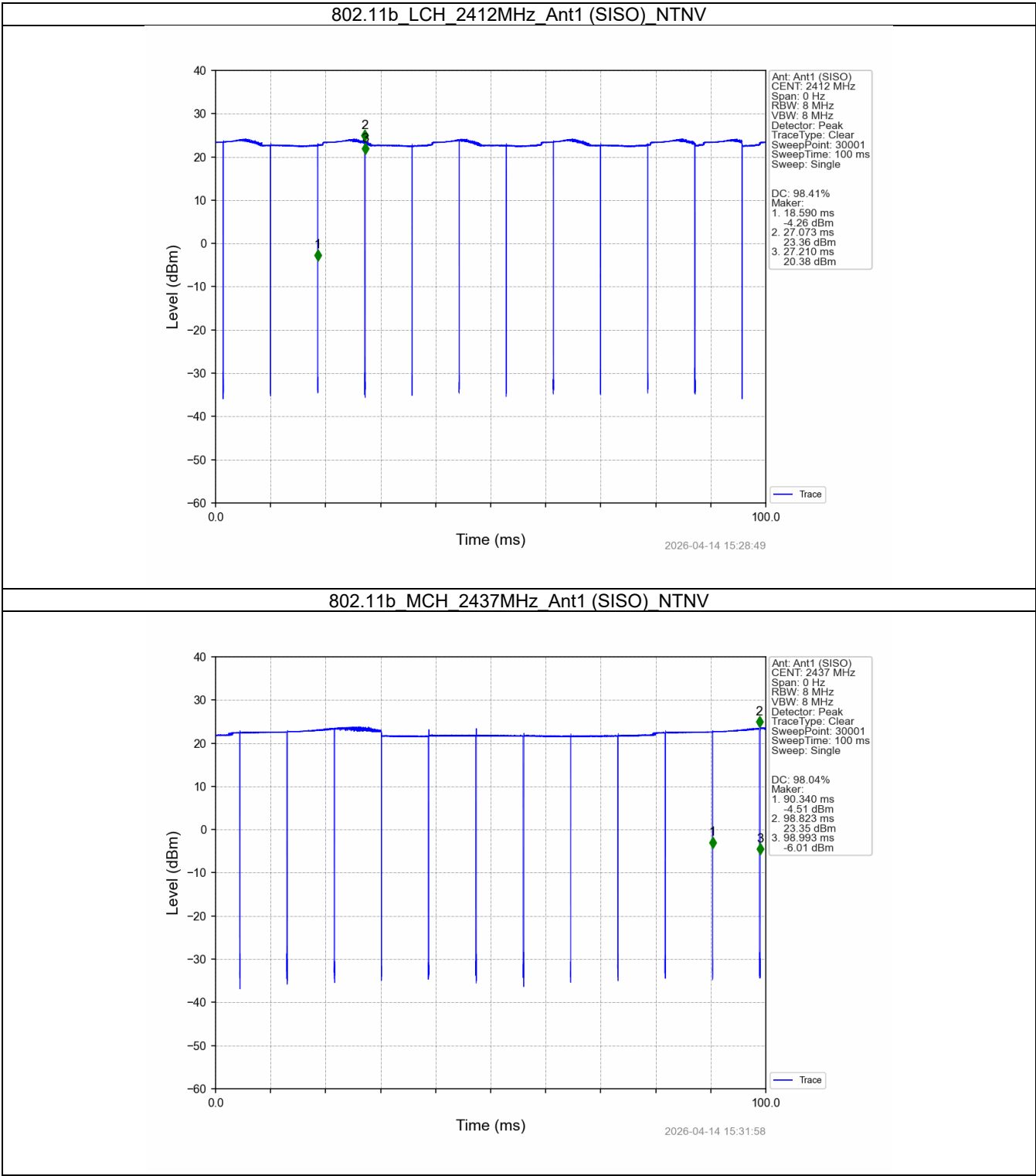
1.1 Test Result

1.1.1 Ant1

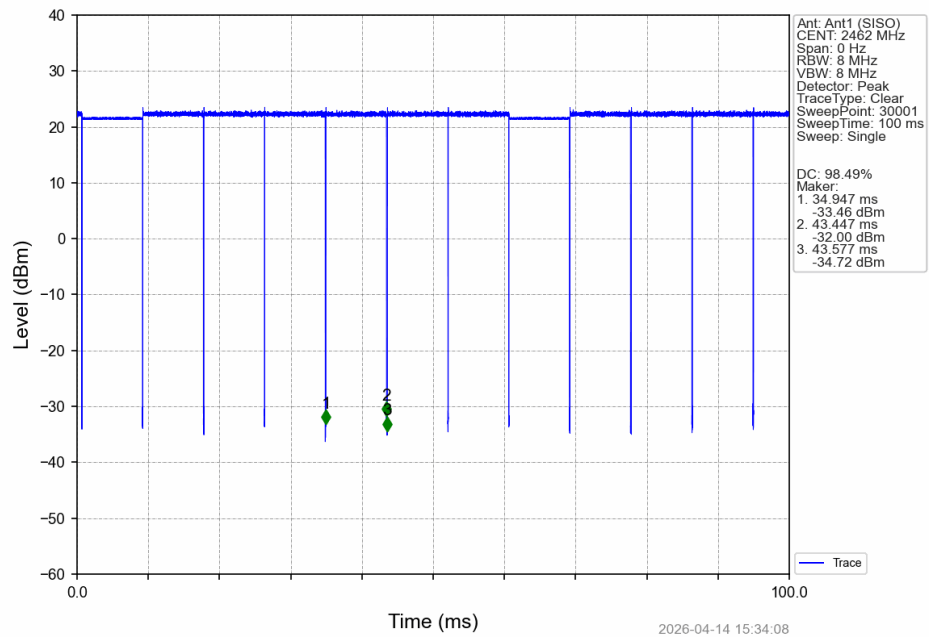
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.483	8.620	98.41	0.07	0.84
		2437	8.483	8.653	98.04	0.09	1.53
		2462	8.500	8.630	98.49	0.07	1.23
802.11g	SISO	2412	1.409	1.664	84.68	0.72	0.03
		2437	1.409	1.664	84.68	0.72	0.03
		2462	1.409	1.664	84.68	0.72	0.04
802.11n (HT20)	SISO	2412	1.316	1.568	83.93	0.76	0.04
		2437	1.317	1.568	83.99	0.76	0.03
		2462	1.317	1.568	83.99	0.76	0.56
802.11n (HT40)	SISO	2422	0.653	1.664	39.24	4.06	4.22
		2437	0.654	2.144	30.50	5.16	9.57
		2452	0.654	1.696	38.56	4.14	1.51

1.2 Test Graph

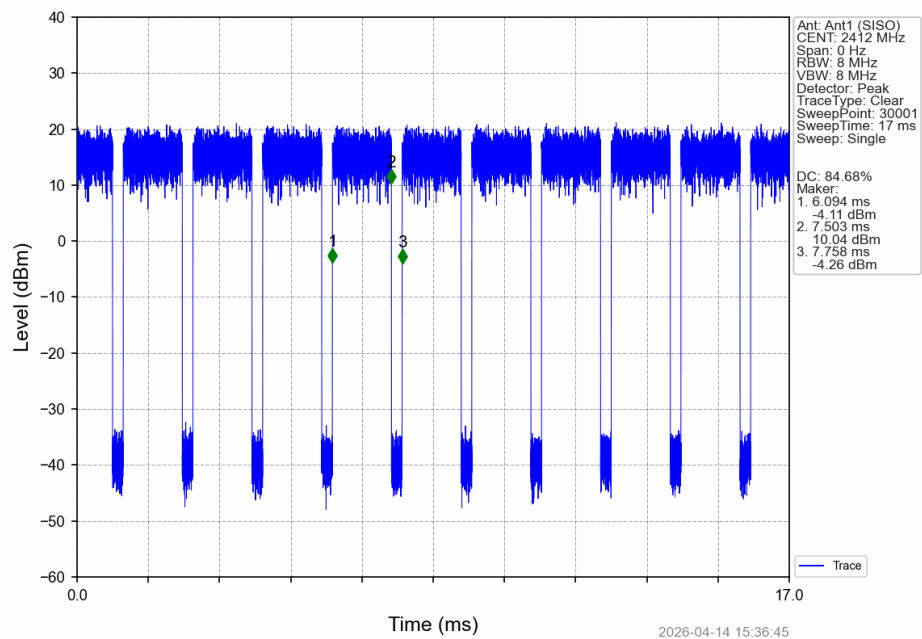
1.2.1 Ant1



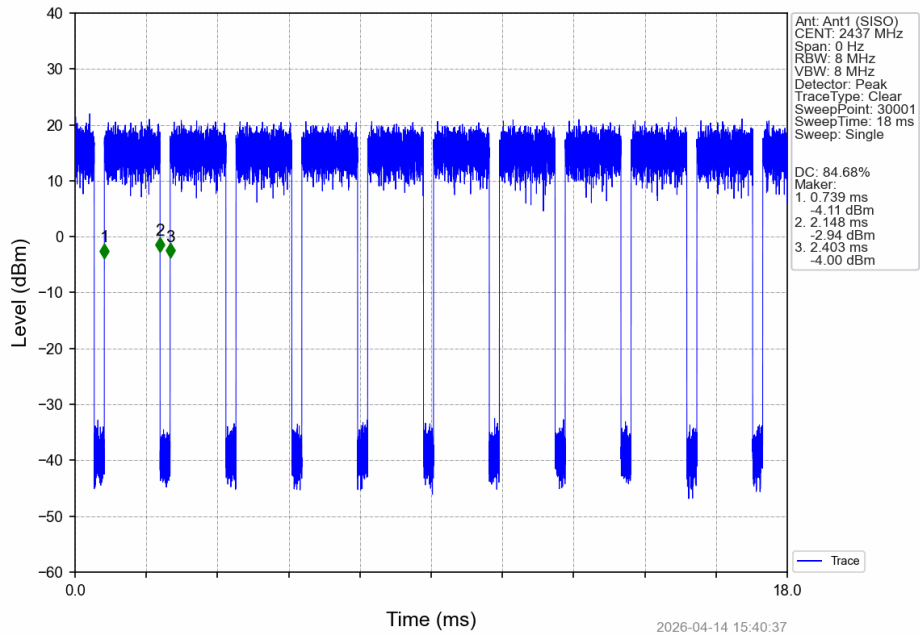
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



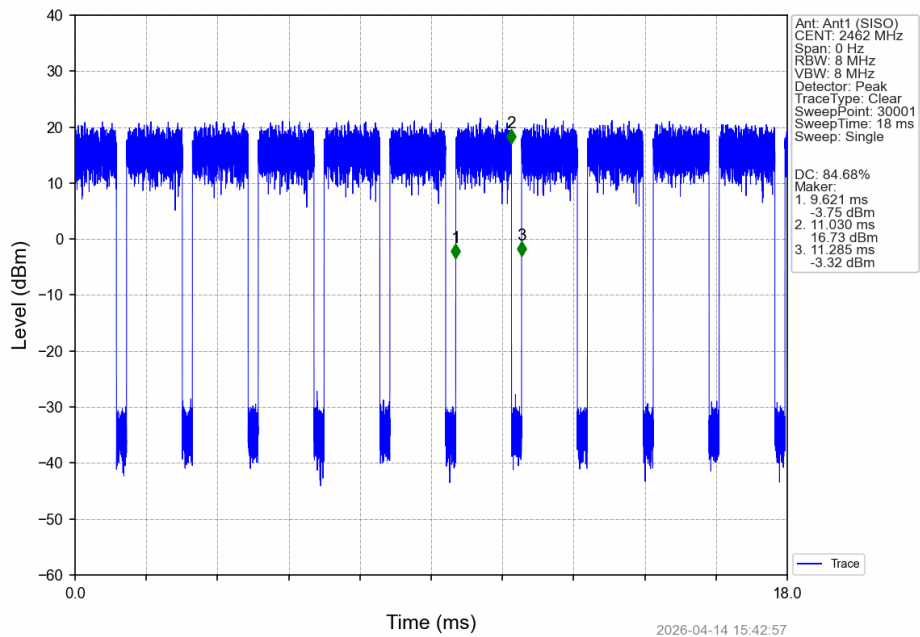
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



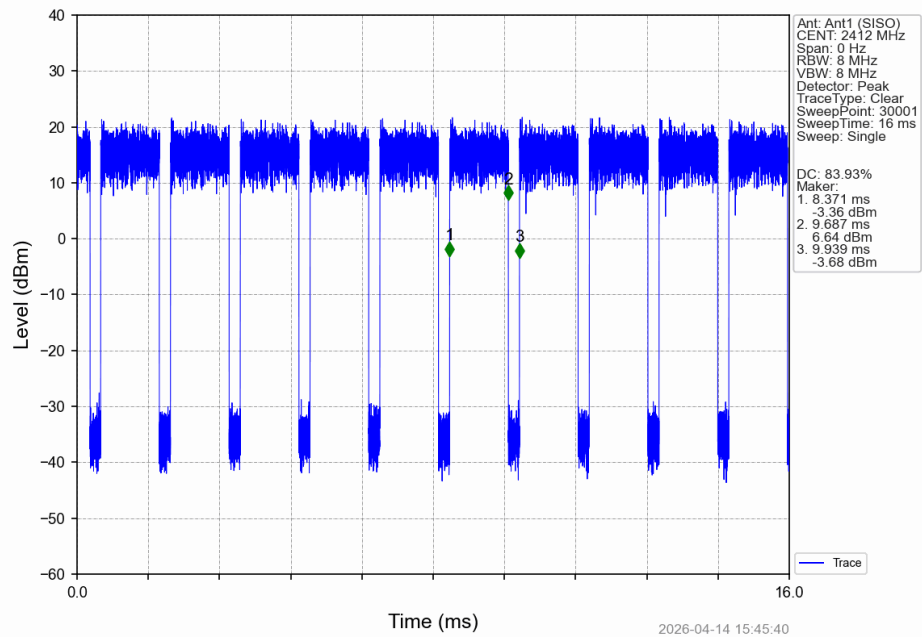
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



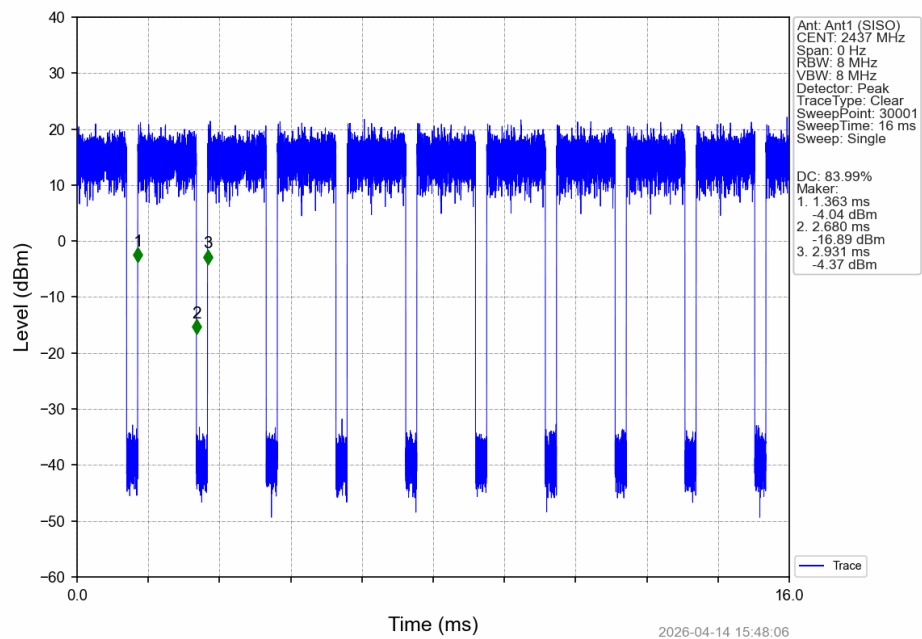
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



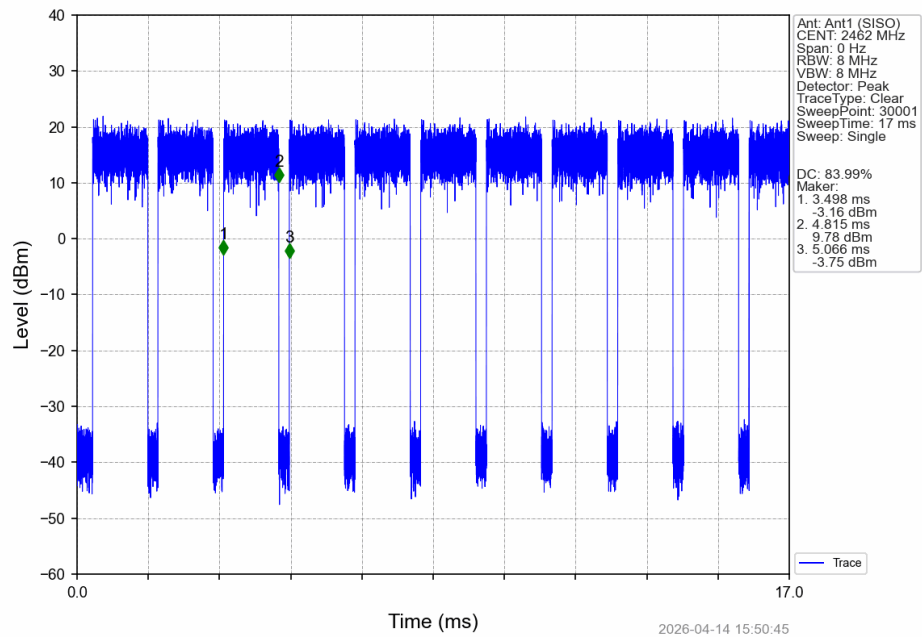
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



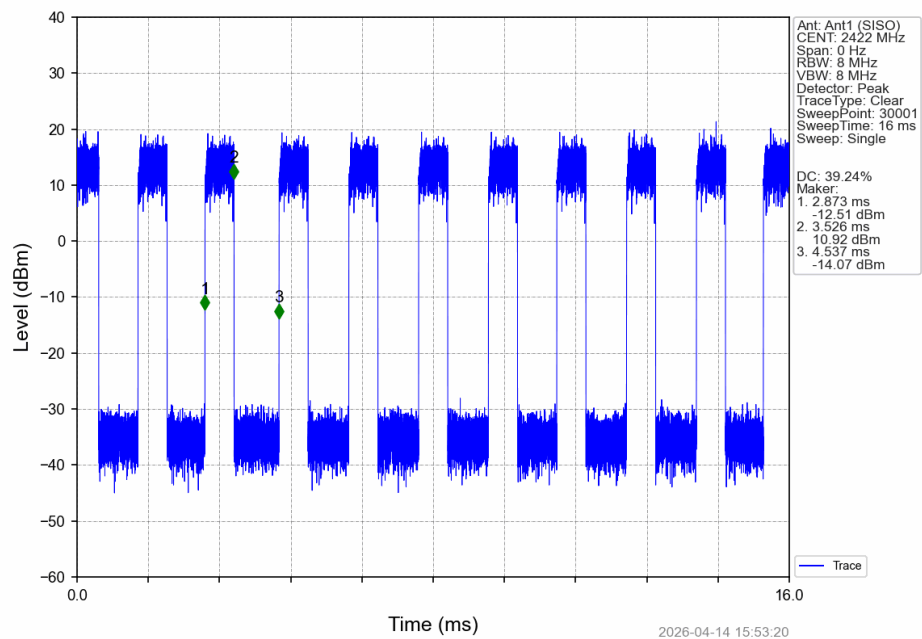
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



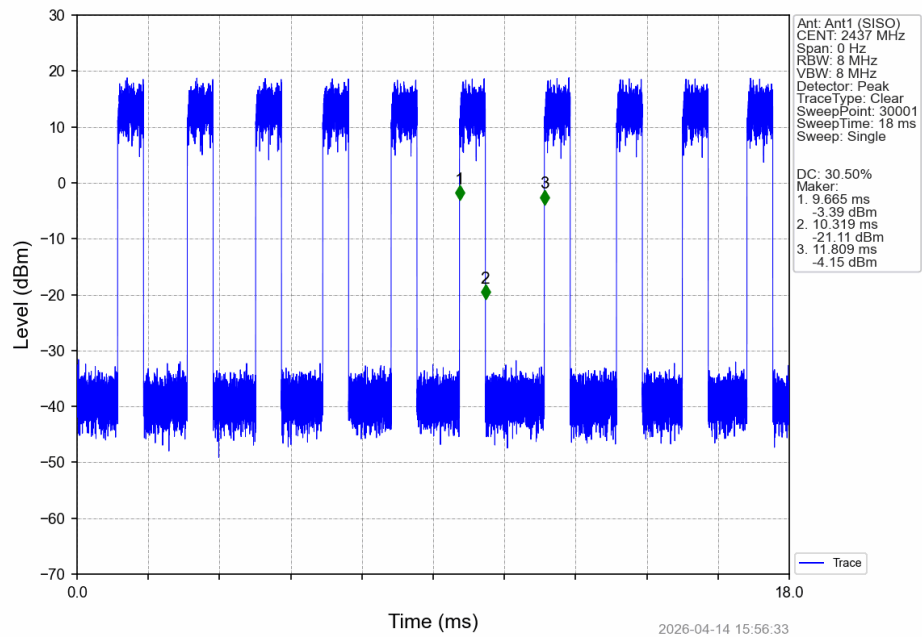
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



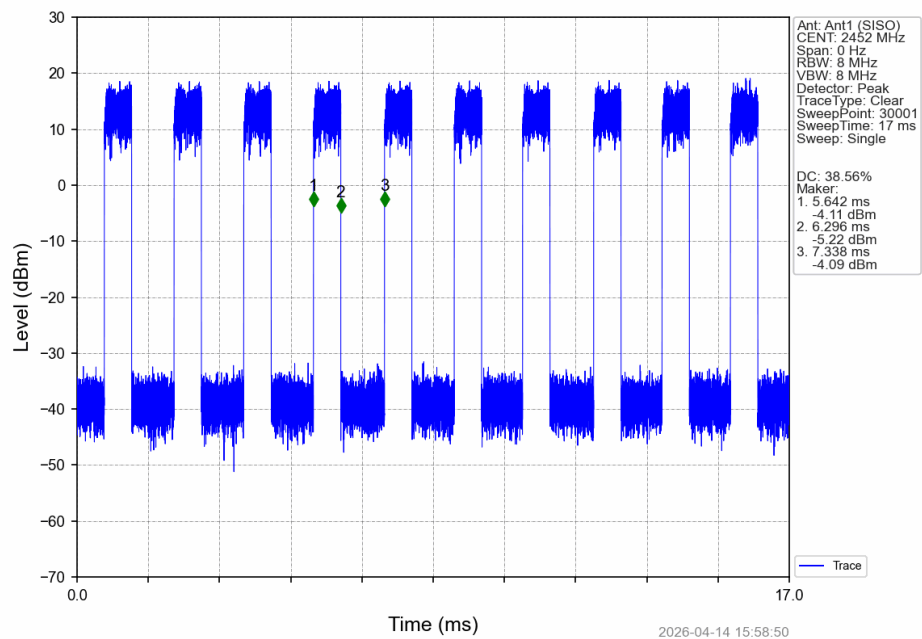
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

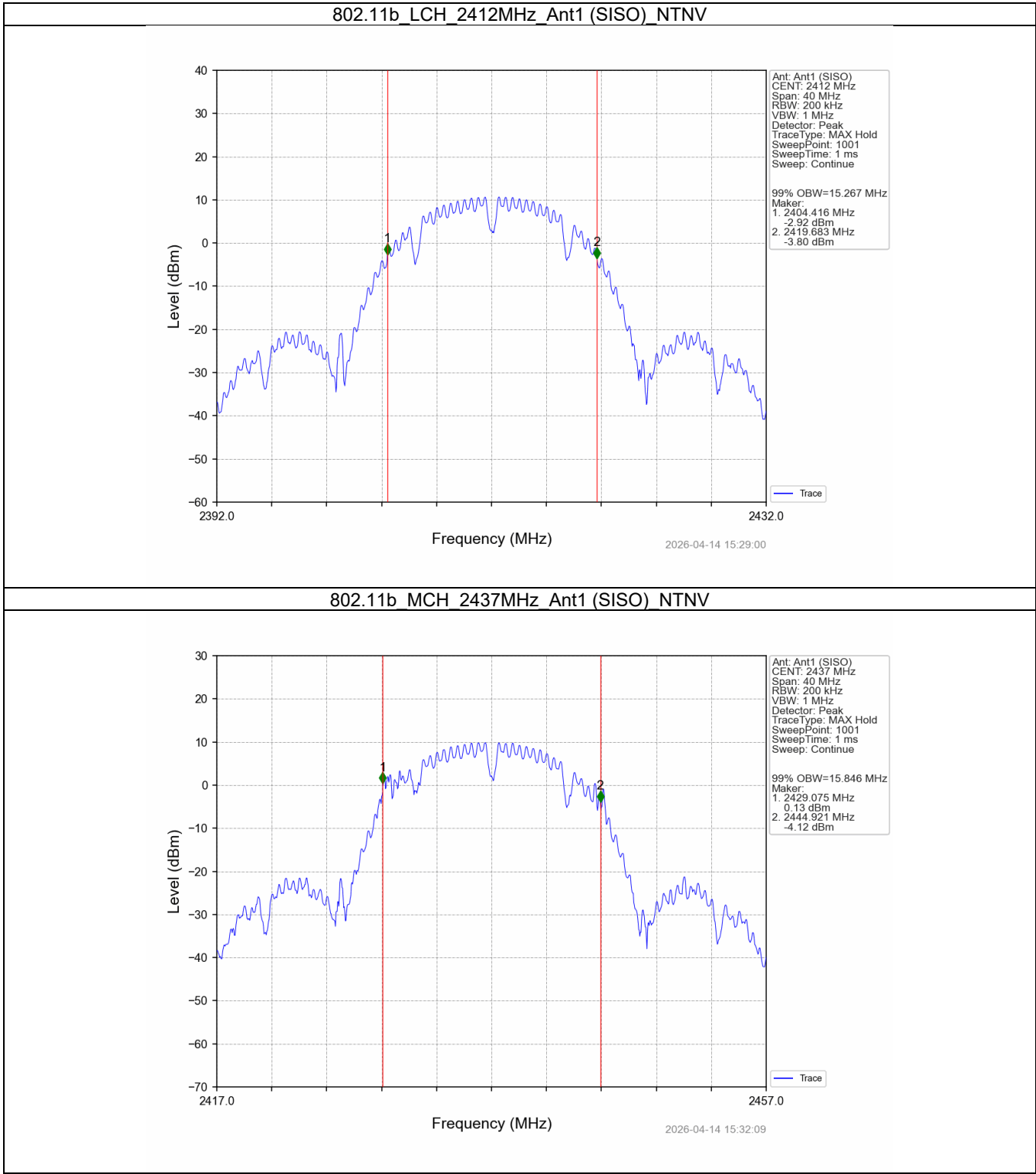
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	15.267	/	Pass
		2437	1	15.846	/	Pass
		2462	1	15.000	/	Pass
802.11g	SISO	2412	1	16.625	/	Pass
		2437	1	16.676	/	Pass
		2462	1	16.596	/	Pass
802.11n (HT20)	SISO	2412	1	17.682	/	Pass
		2437	1	17.729	/	Pass
		2462	1	17.680	/	Pass
802.11n (HT40)	SISO	2422	1	36.673	/	Pass
		2437	1	36.793	/	Pass
		2452	1	36.902	/	Pass

2.1.2 6dB BW

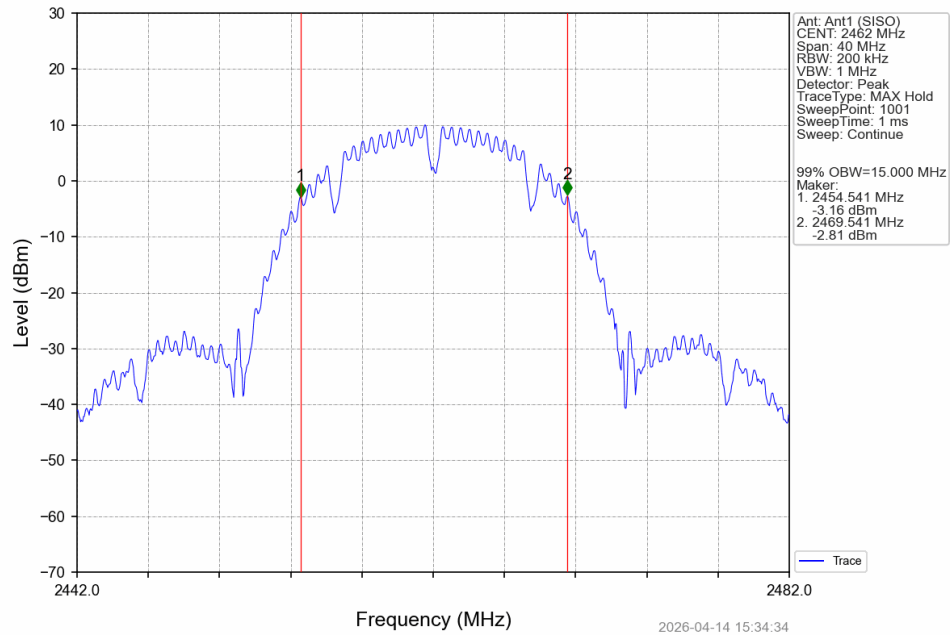
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.219	≥ 0.5	Pass
		2437	1	10.222	≥ 0.5	Pass
		2462	1	10.210	≥ 0.5	Pass
802.11g	SISO	2412	1	16.412	≥ 0.5	Pass
		2437	1	16.435	≥ 0.5	Pass
		2462	1	16.420	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.573	≥ 0.5	Pass
		2437	1	17.599	≥ 0.5	Pass
		2462	1	17.525	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.944	≥ 0.5	Pass
		2437	1	36.203	≥ 0.5	Pass
		2452	1	36.354	≥ 0.5	Pass

2.2 Test Graph

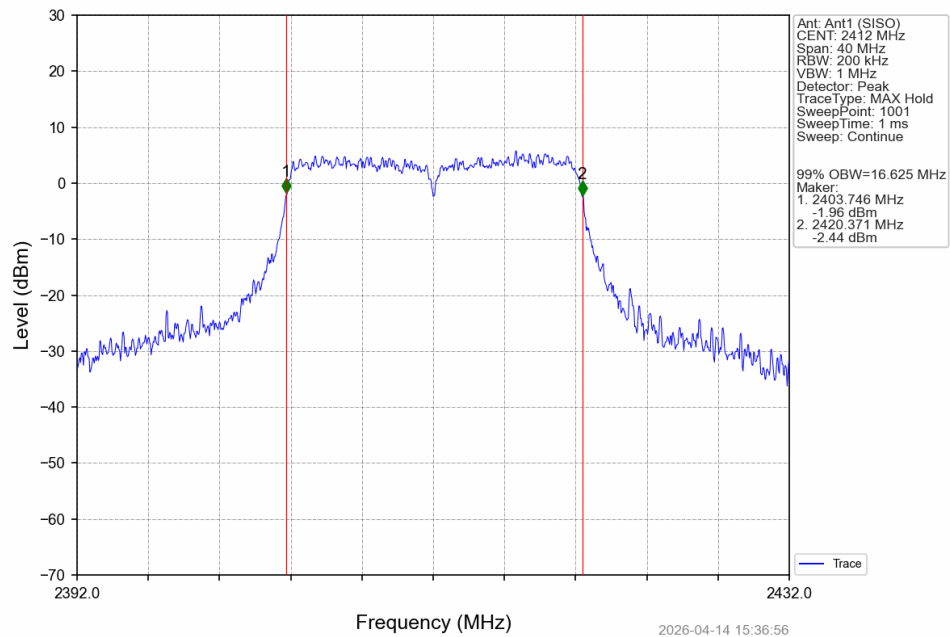
2.2.1 OBW



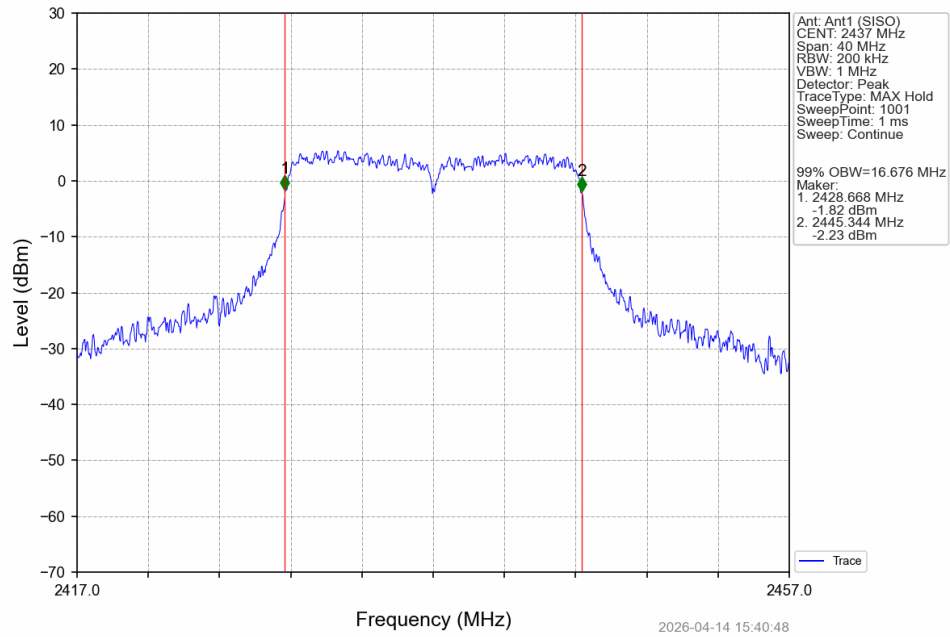
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



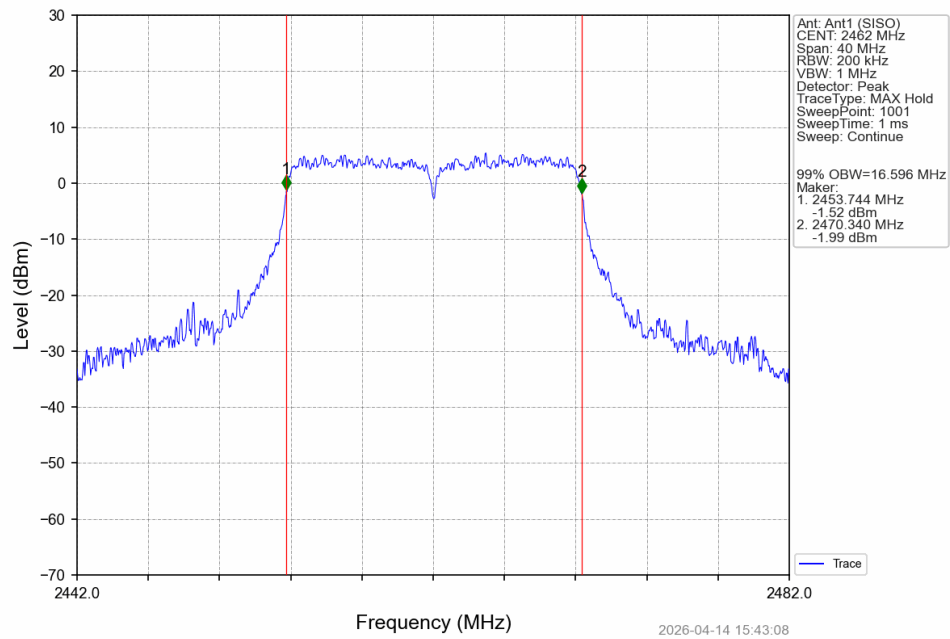
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



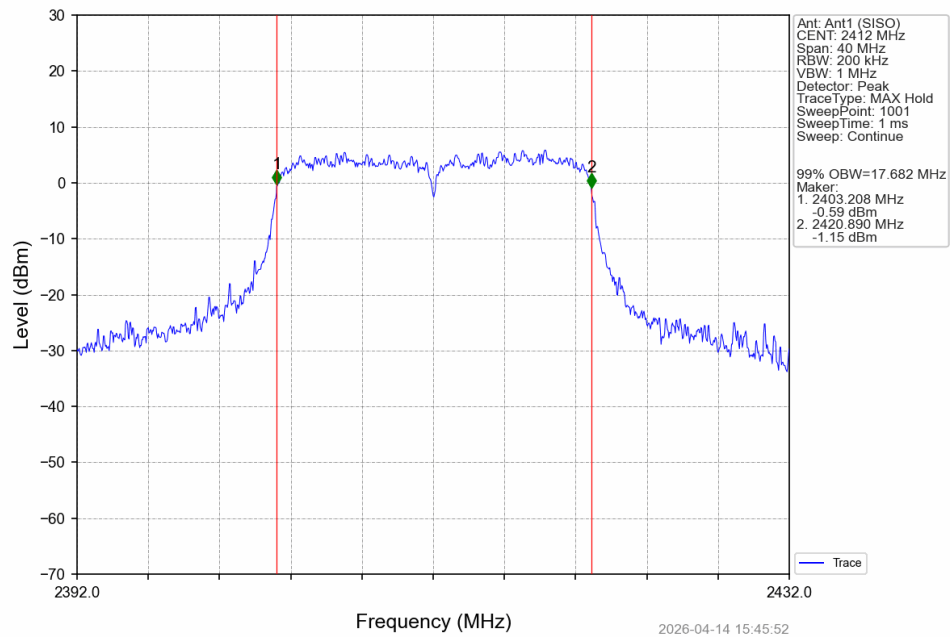
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



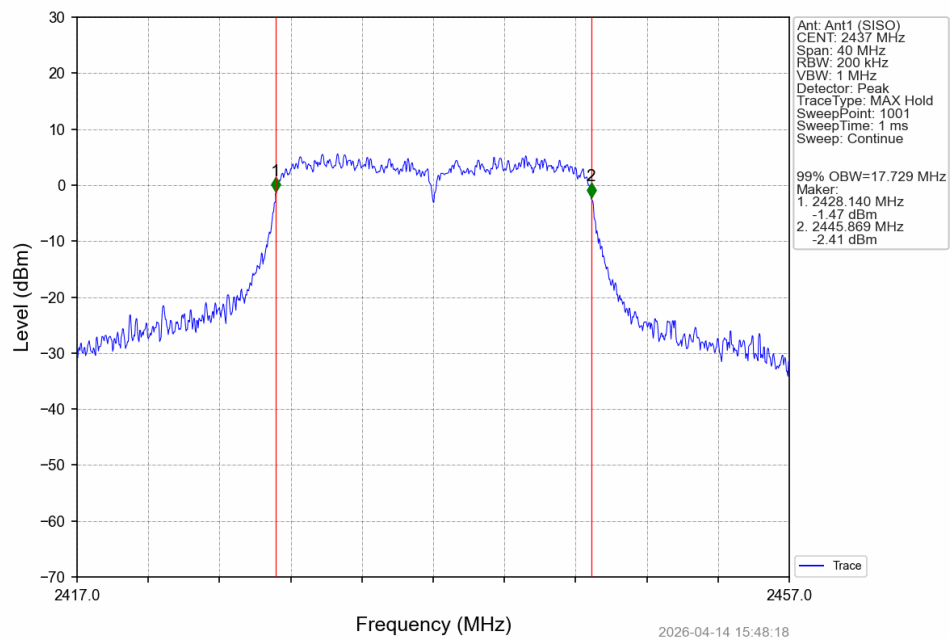
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



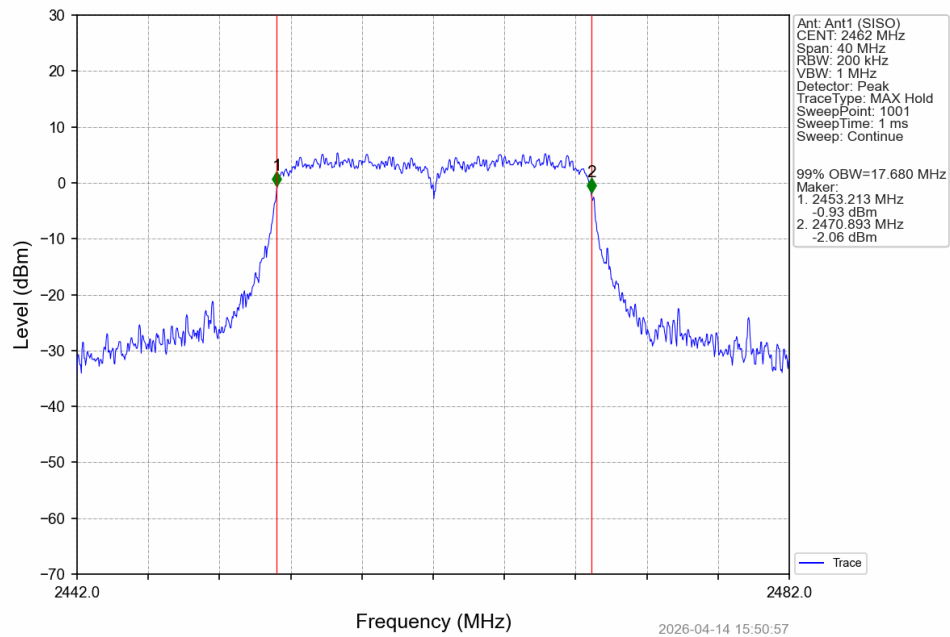
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



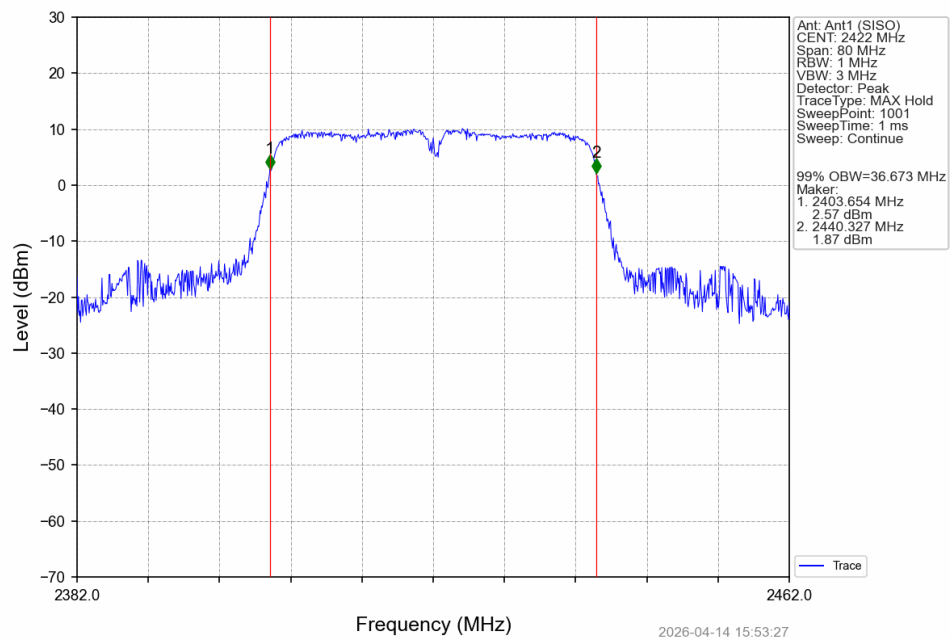
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



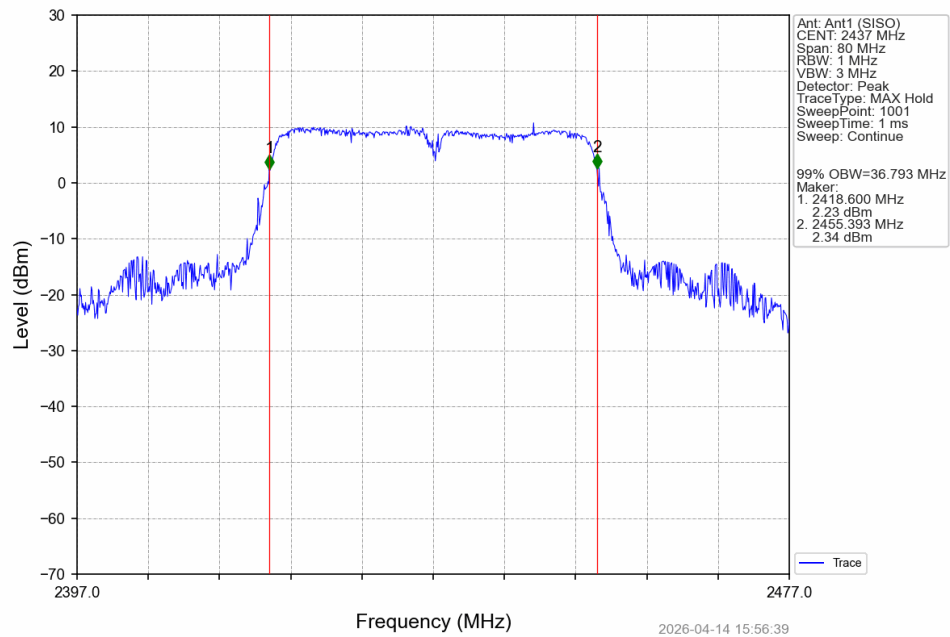
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



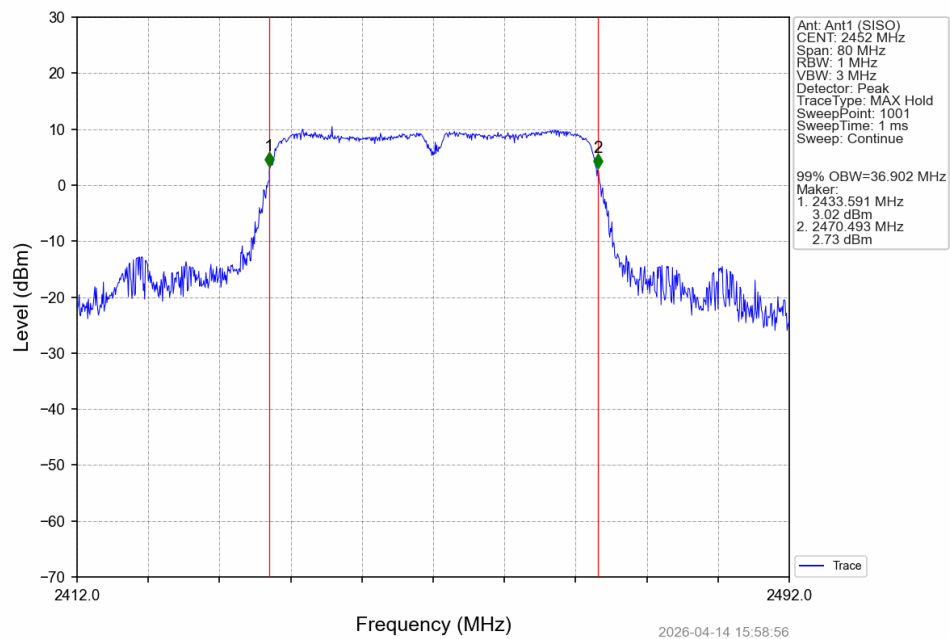
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



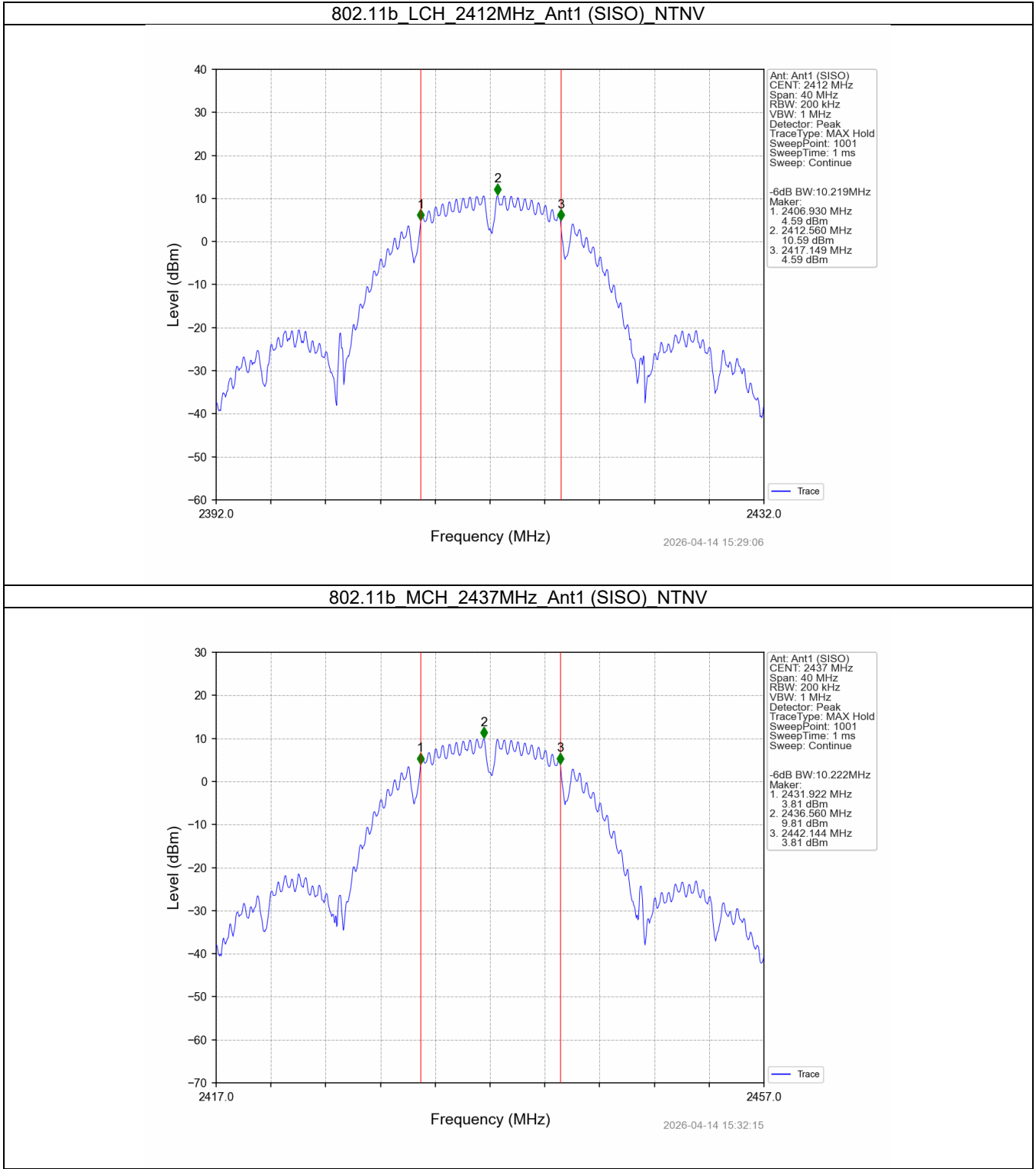
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



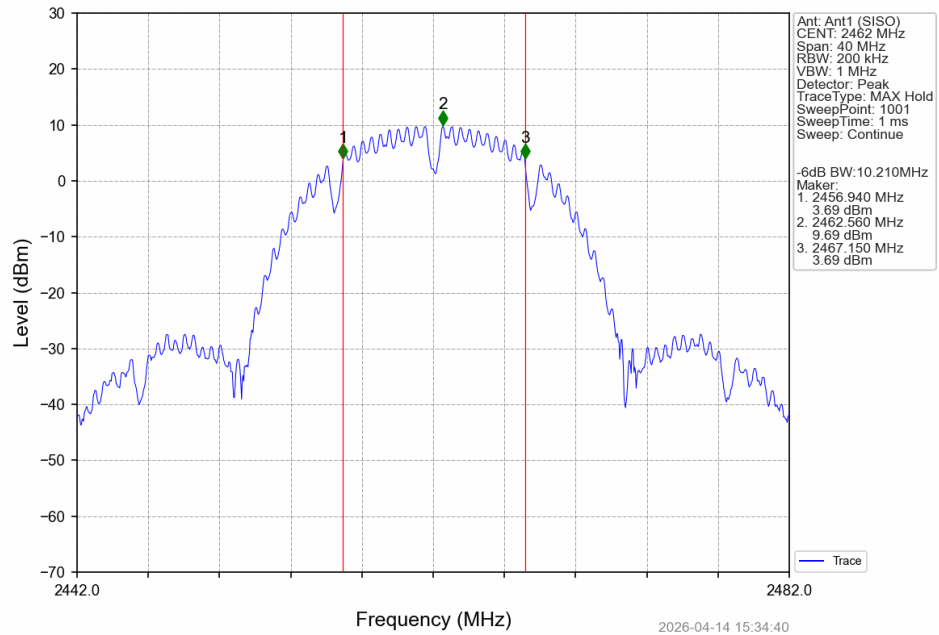
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



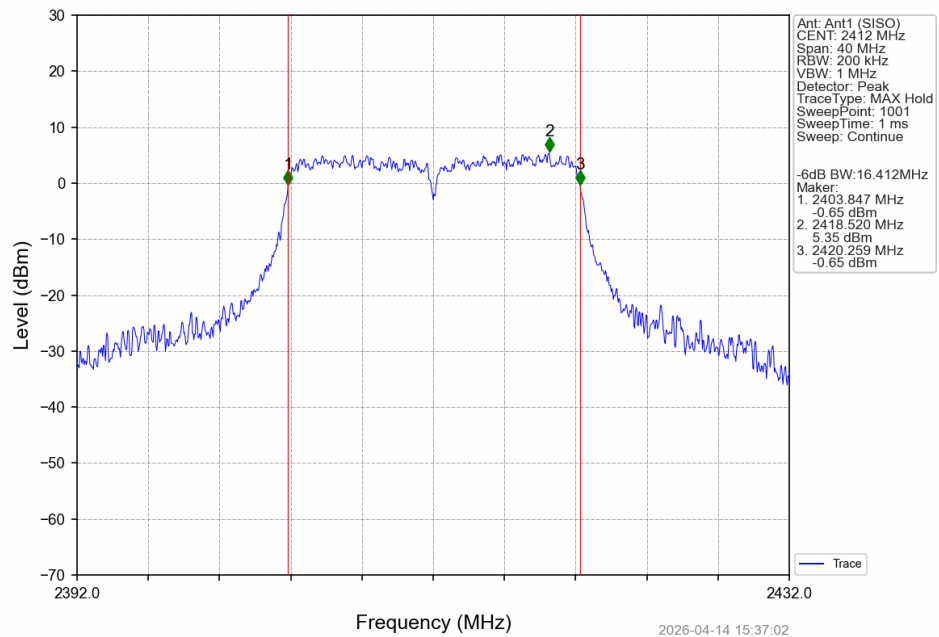
2.2.2 6dB BW



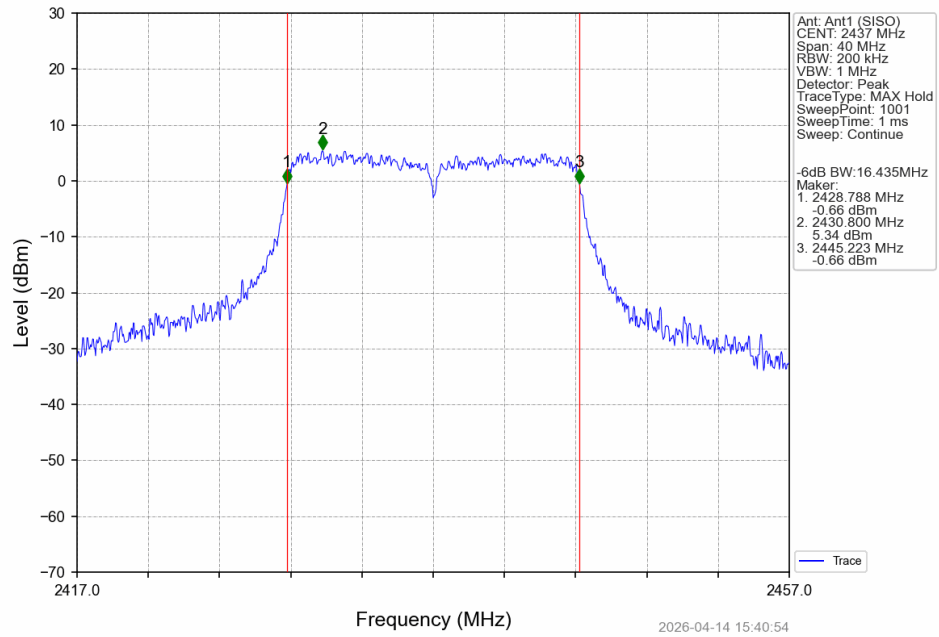
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



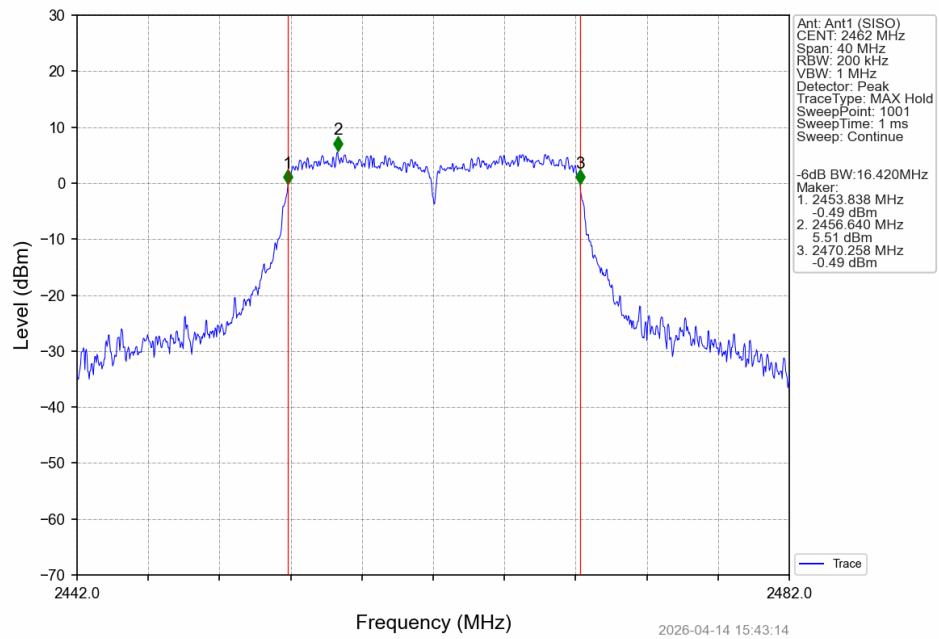
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



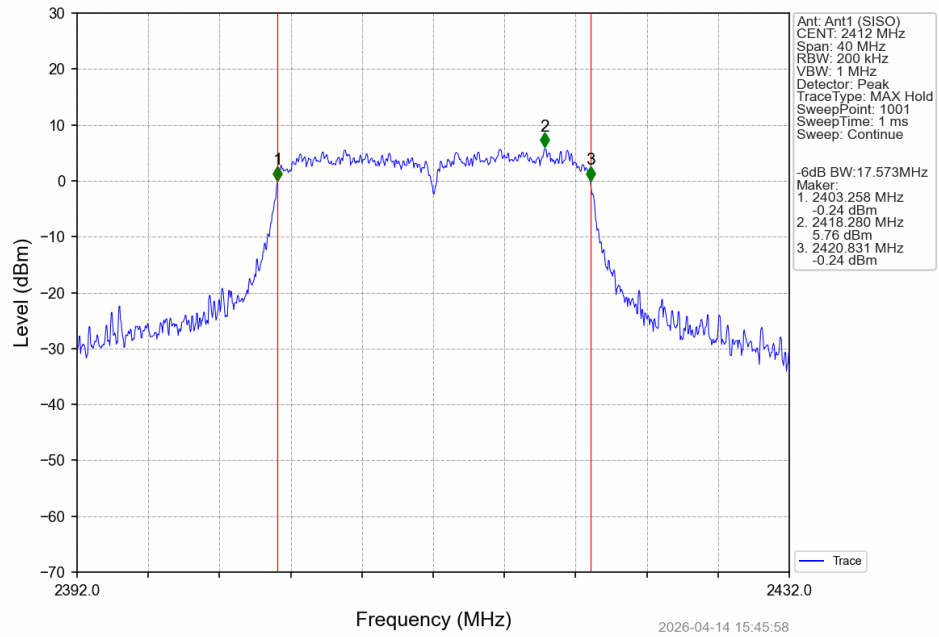
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



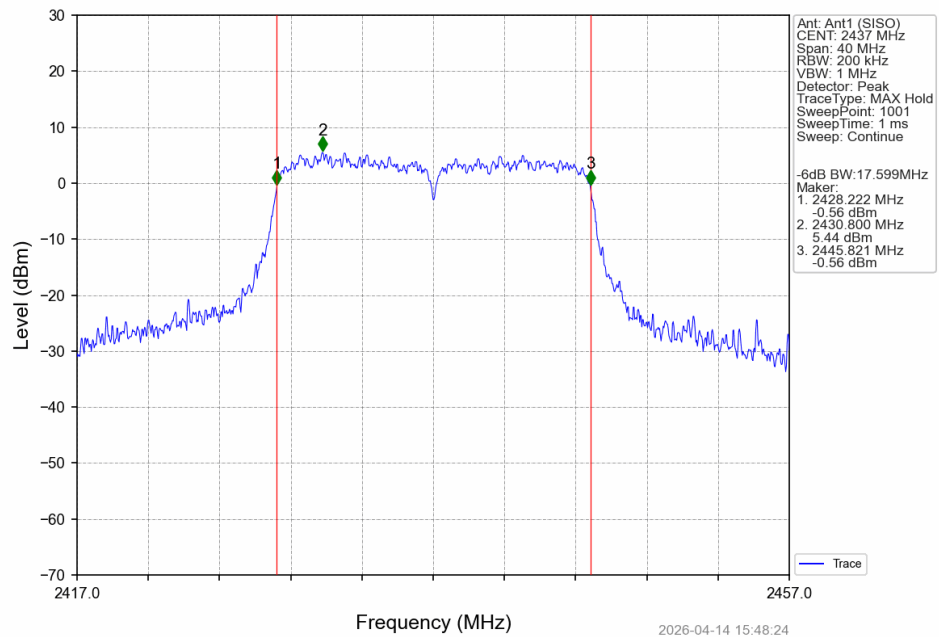
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



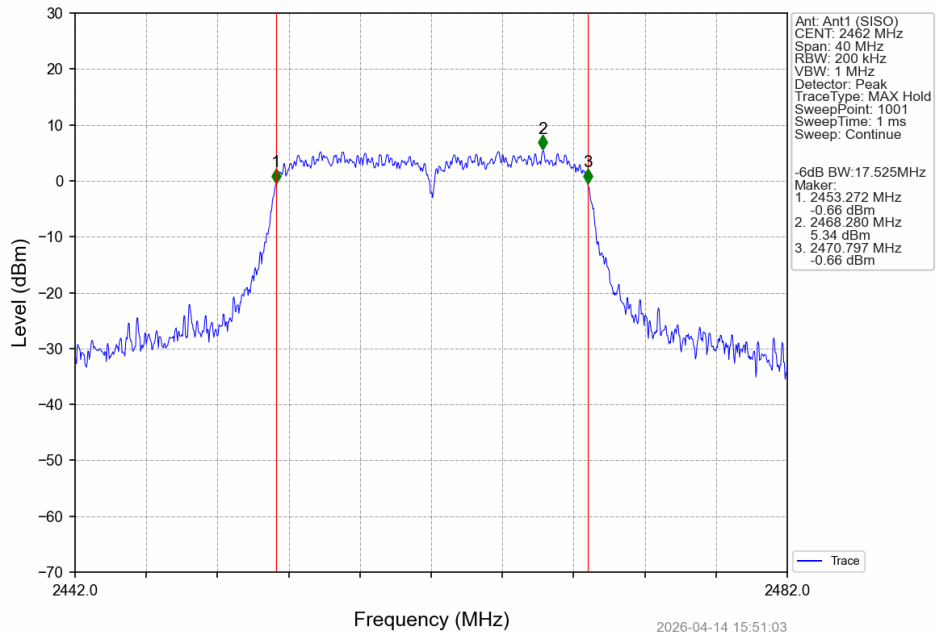
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



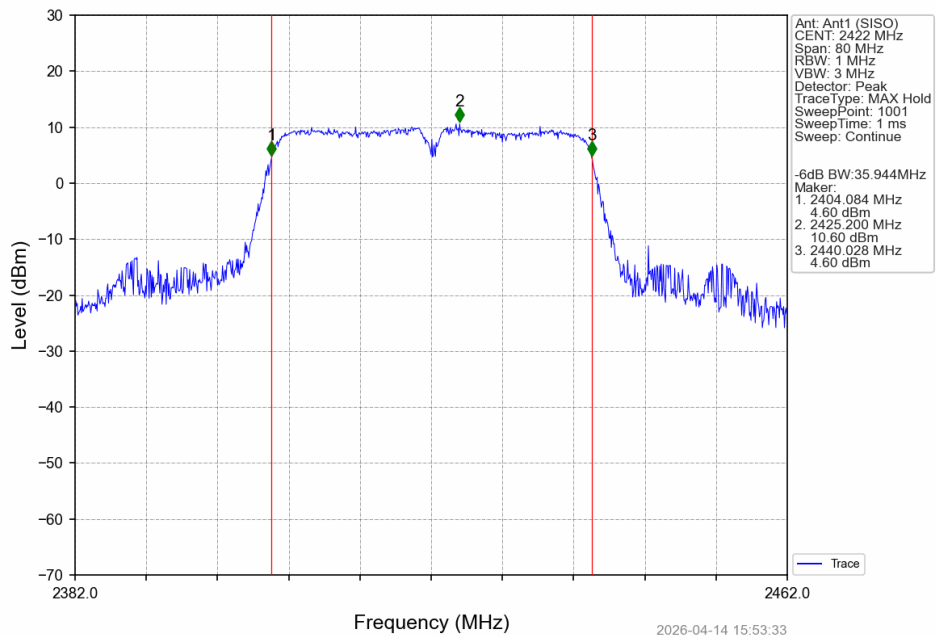
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



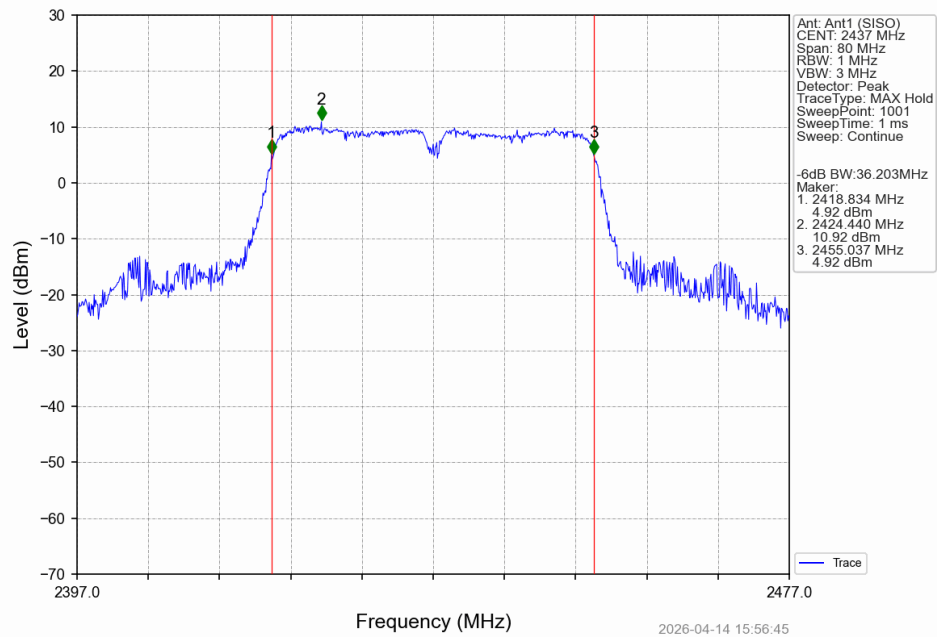
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



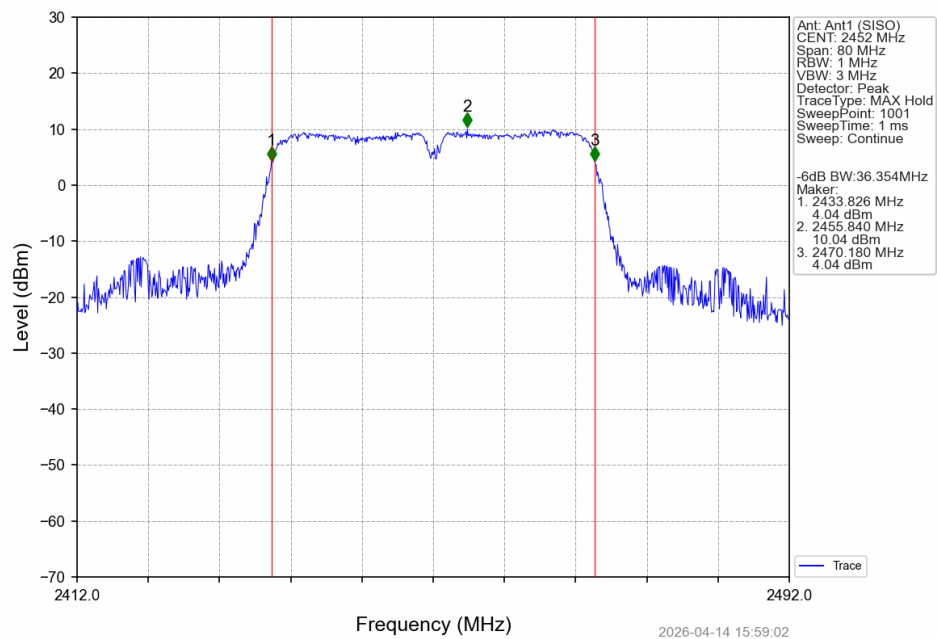
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	22.39	<=30	Pass
		2437	21.49	<=30	Pass
		2462	21.47	<=30	Pass
802.11g	SISO	2412	23.05	<=30	Pass
		2437	22.98	<=30	Pass
		2462	23.08	<=30	Pass
802.11n (HT20)	SISO	2412	23.51	<=30	Pass
		2437	23.03	<=30	Pass
		2462	23.18	<=30	Pass
802.11n (HT40)	SISO	2422	24.09	<=30	Pass
		2437	23.98	<=30	Pass
		2452	23.93	<=30	Pass

4. Maximum Power Spectral Density

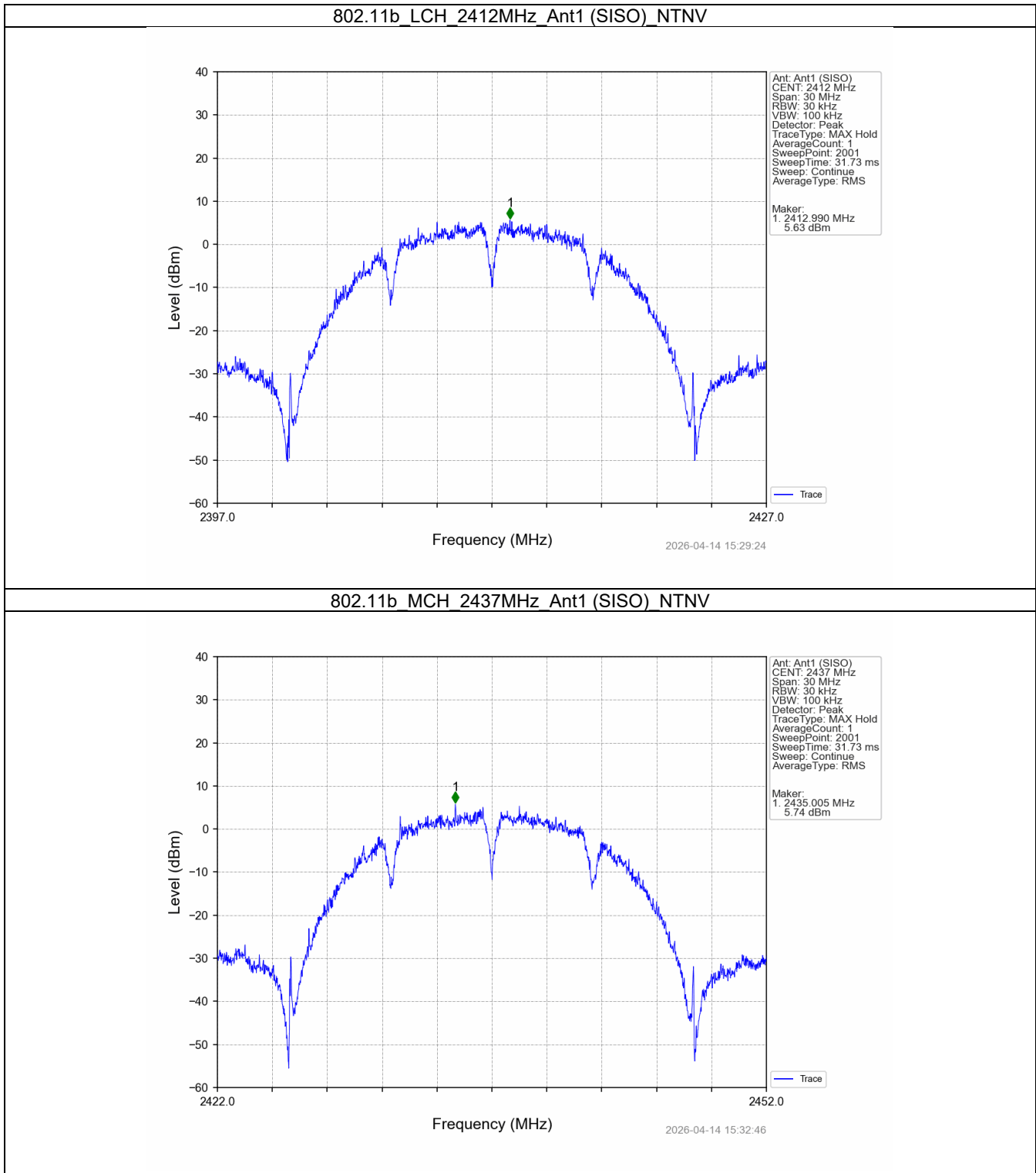
4.1 Test Result

4.1.1 PSD

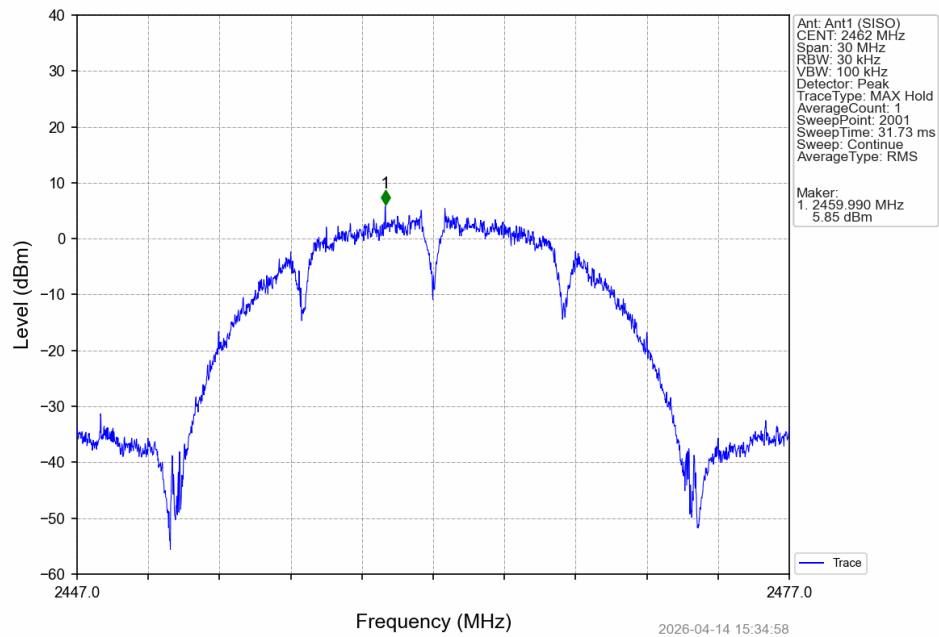
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	5.63	<=8	Pass
		2437	5.74	<=8	Pass
		2462	5.85	<=8	Pass
802.11g	SISO	2412	4.57	<=8	Pass
		2437	4.38	<=8	Pass
		2462	4.30	<=8	Pass
802.11n (HT20)	SISO	2412	5.07	<=8	Pass
		2437	4.42	<=8	Pass
		2462	4.56	<=8	Pass
802.11n (HT40)	SISO	2422	2.64	<=8	Pass
		2437	2.62	<=8	Pass
		2452	2.35	<=8	Pass

4.2 Test Graph

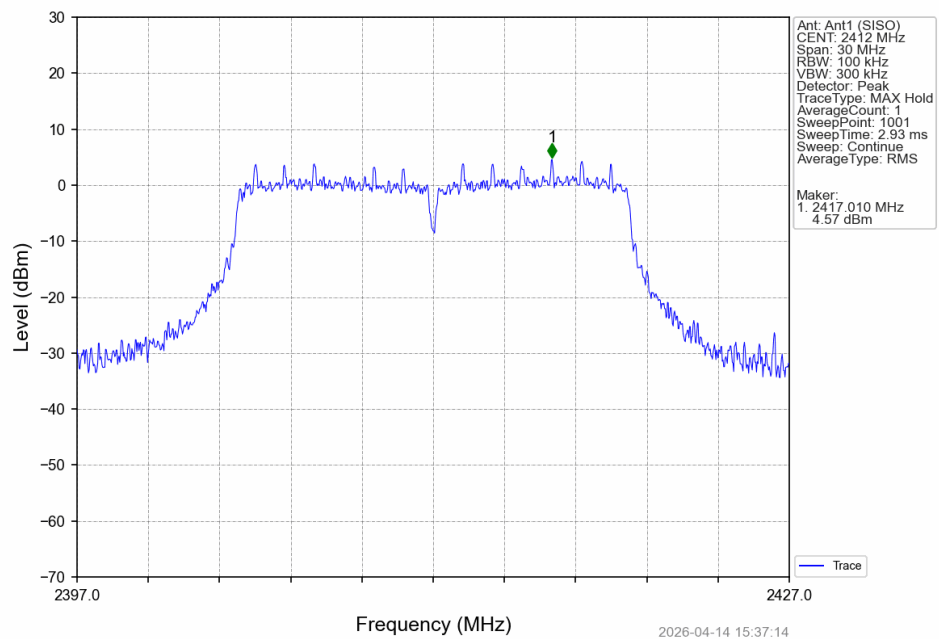
4.2.1 PSD



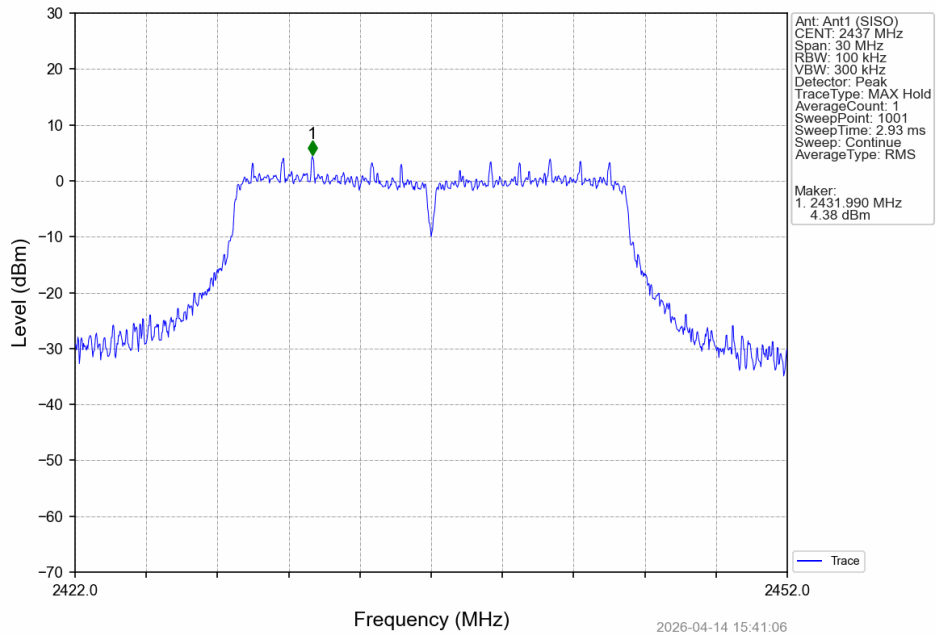
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



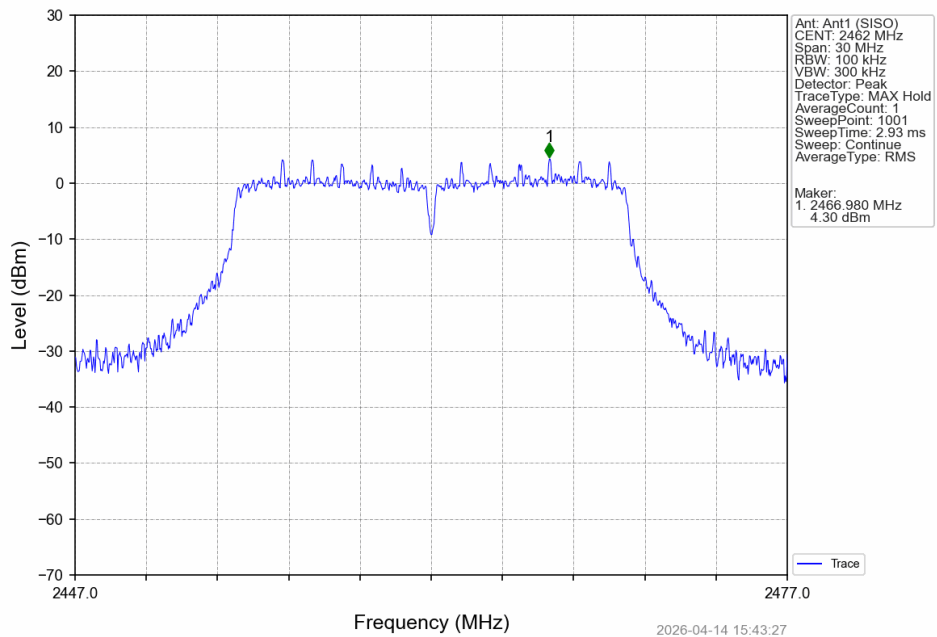
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



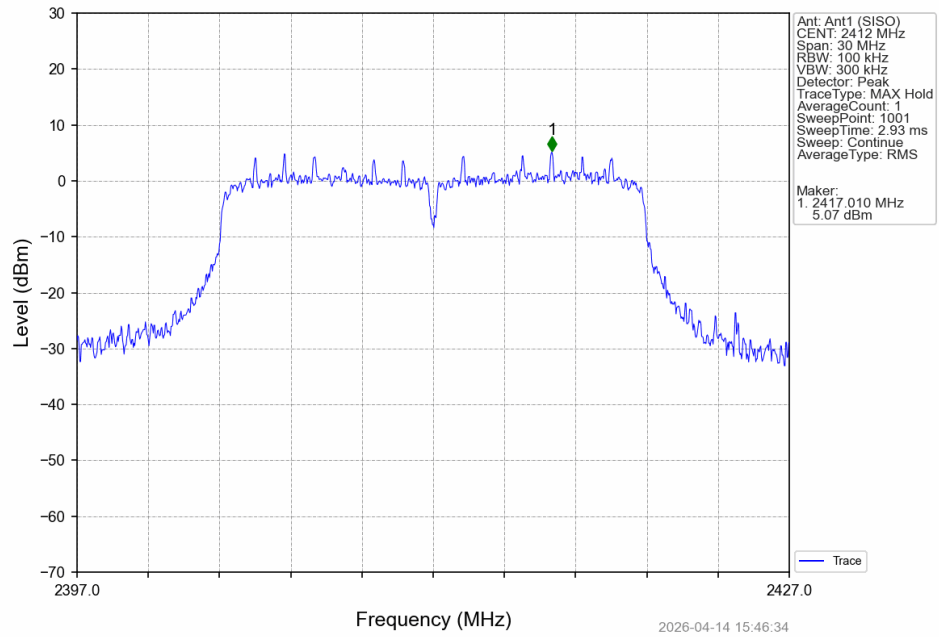
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



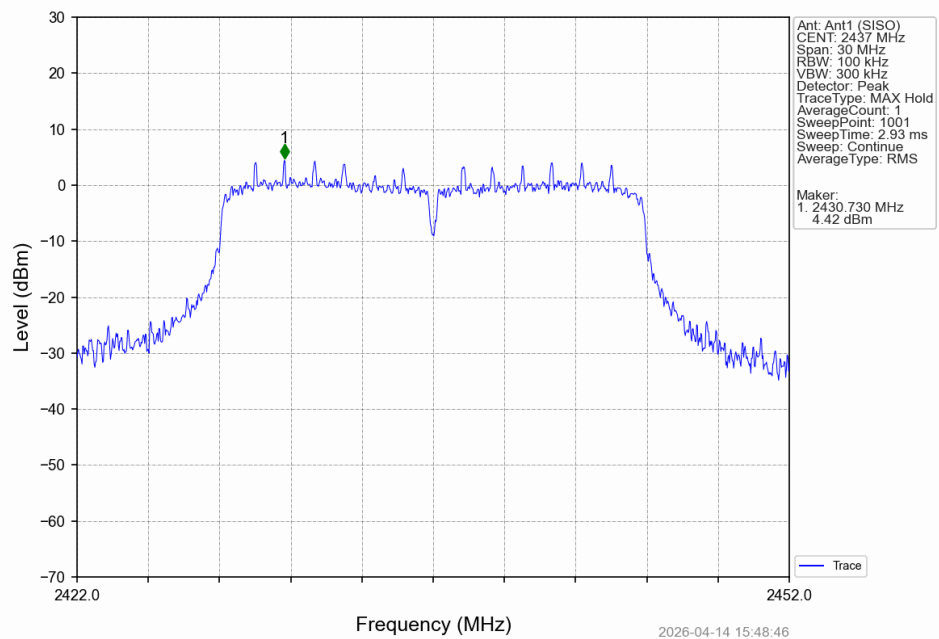
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



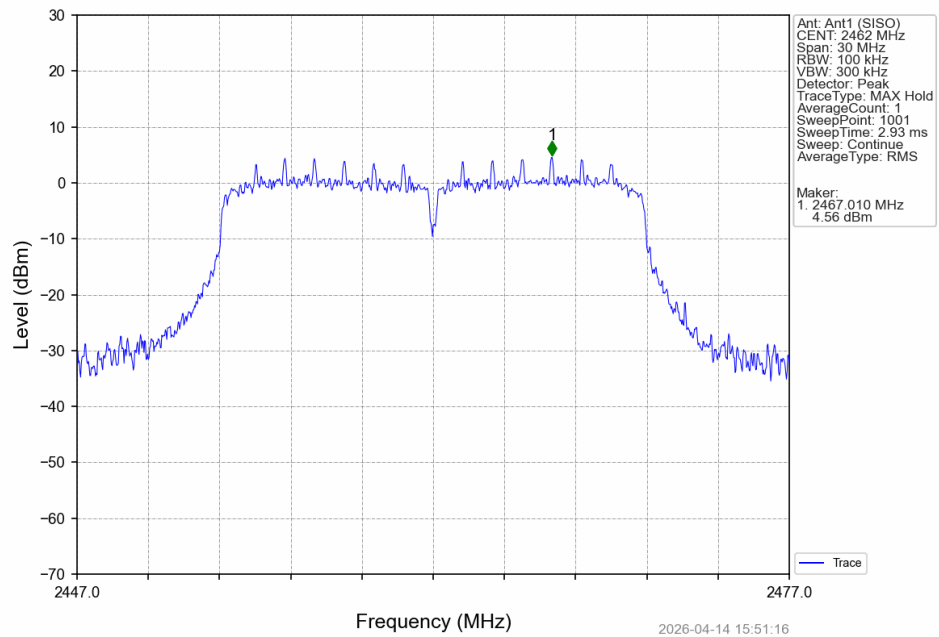
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



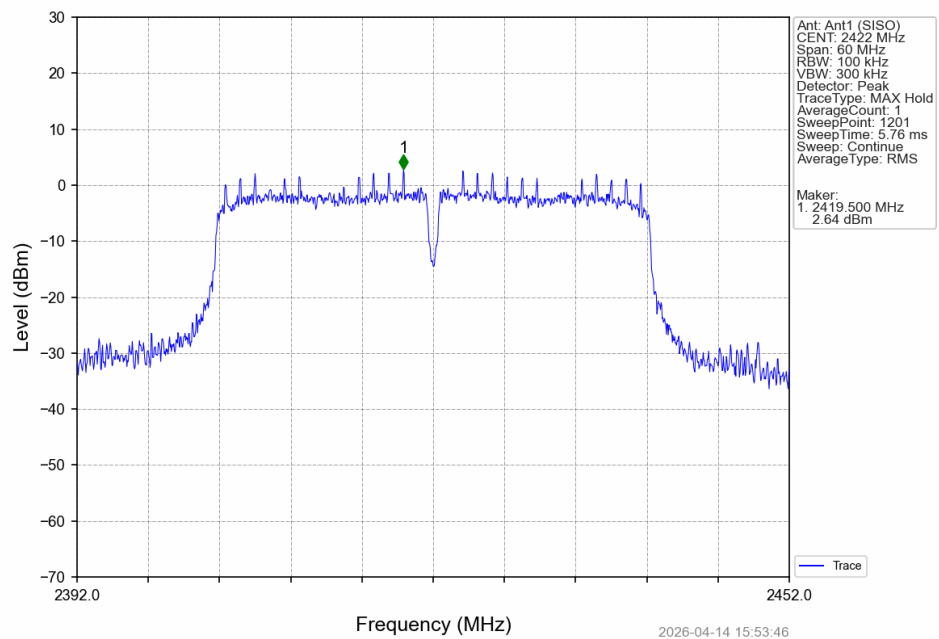
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



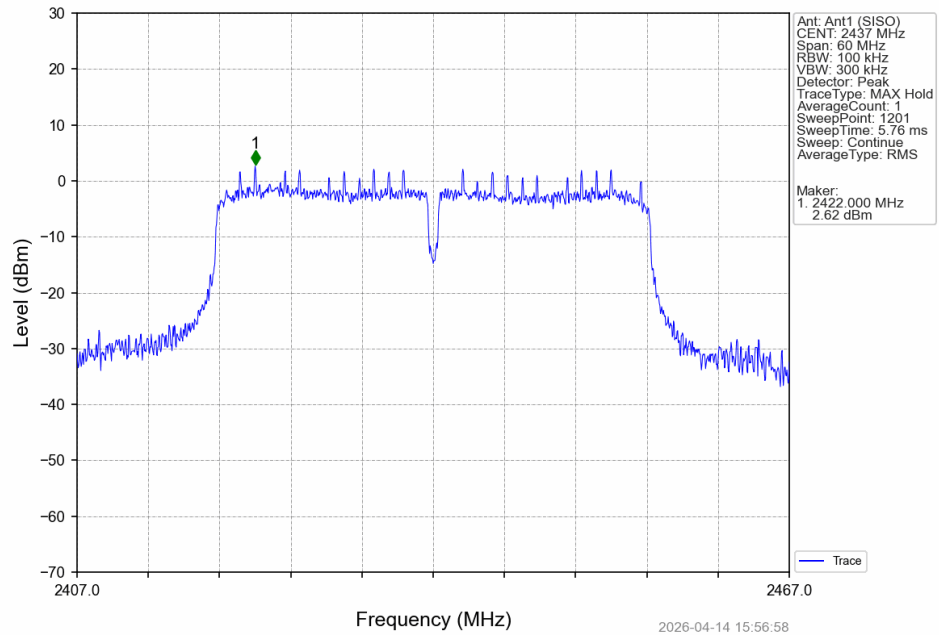
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



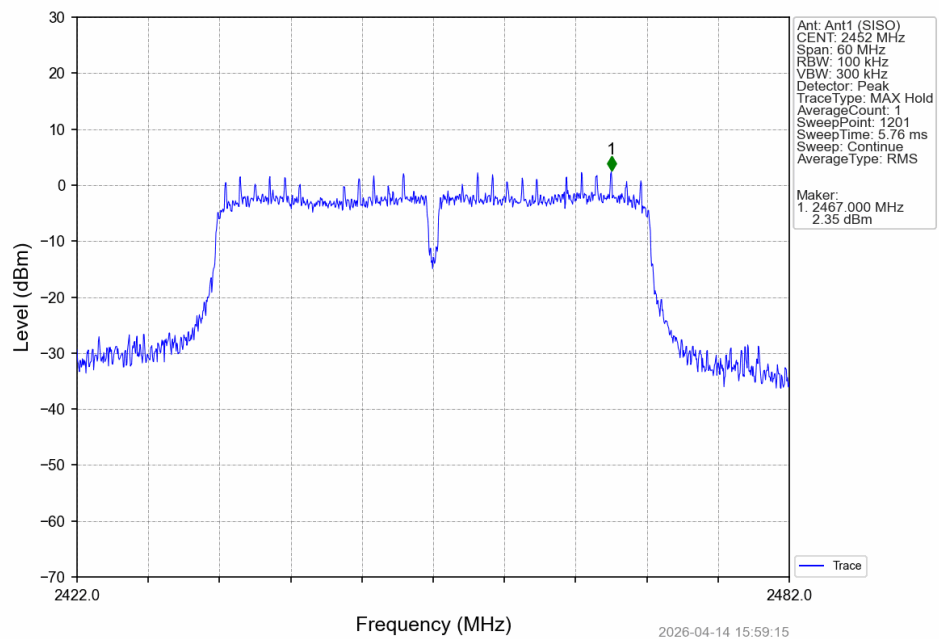
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

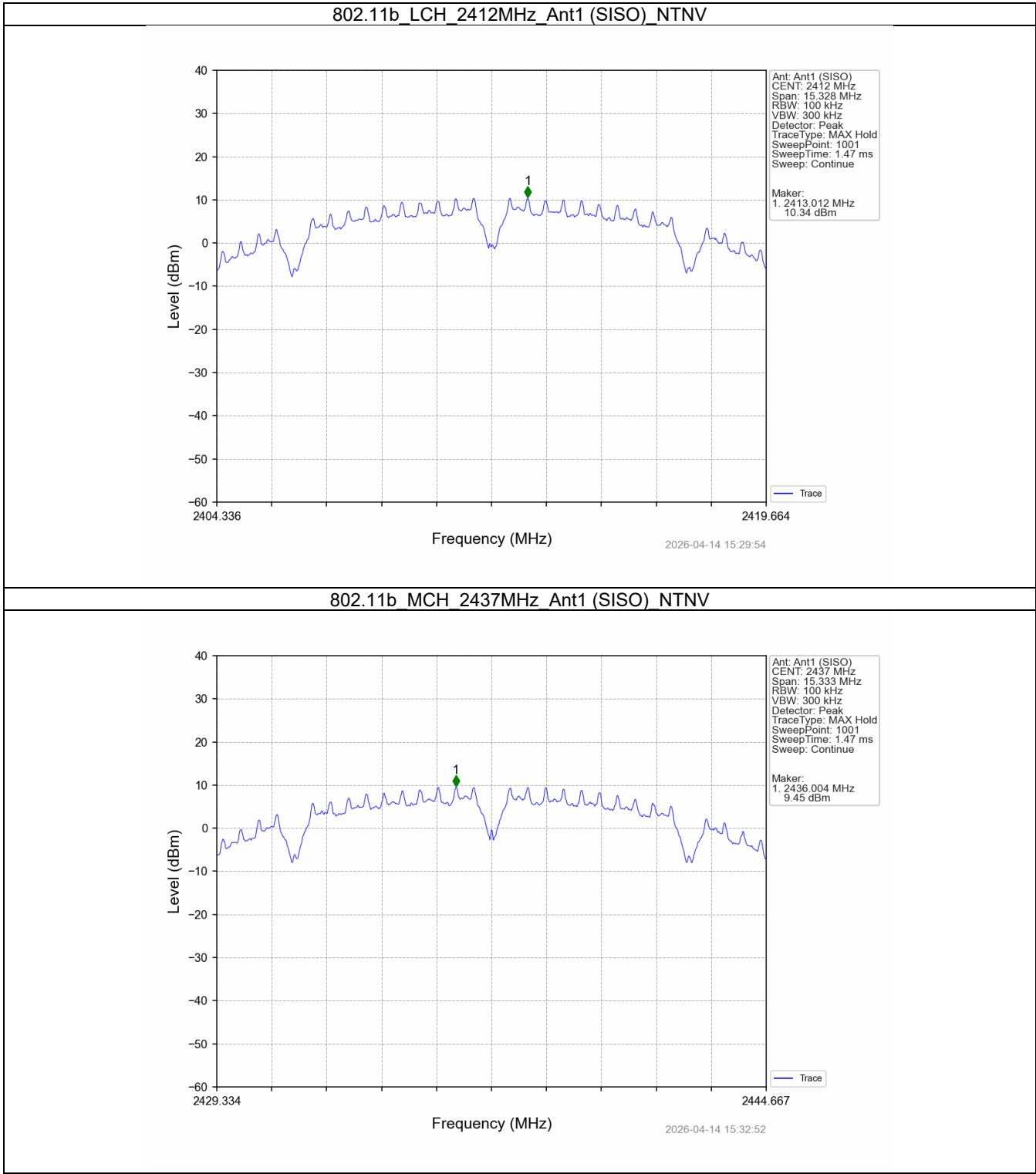
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	10.34
		2437	1	9.45
		2462	1	9.57
802.11g	SISO	2412	1	4.36
		2437	1	4.33
		2462	1	4.44
802.11n (HT20)	SISO	2412	1	4.98
		2437	1	4.66
		2462	1	4.43
802.11n (HT40)	SISO	2422	1	2.58
		2437	1	2.50
		2452	1	2.30

5.1.2 CSE

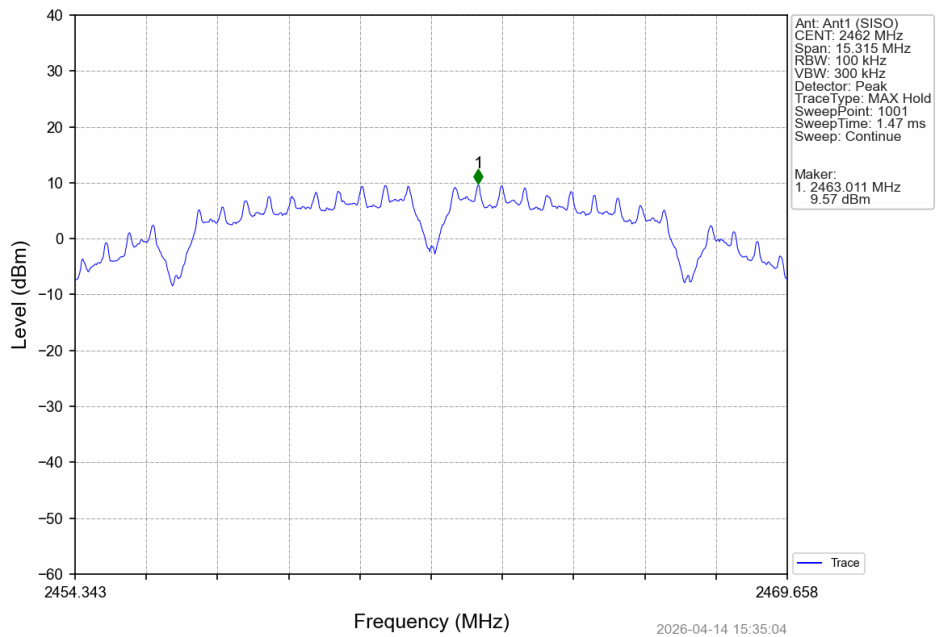
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	10.34	-9.66	Pass
		2437	1	9.45	-10.55	Pass
		2462	1	9.57	-10.43	Pass
802.11g	SISO	2412	1	4.36	-15.64	Pass
		2437	1	4.33	-15.67	Pass
		2462	1	4.44	-15.56	Pass
802.11n (HT20)	SISO	2412	1	4.98	-15.02	Pass
		2437	1	4.66	-15.34	Pass
		2462	1	4.43	-15.57	Pass
802.11n (HT40)	SISO	2422	1	2.58	-17.42	Pass
		2437	1	2.50	-17.50	Pass
		2452	1	2.30	-17.70	Pass

5.2 Test Graph

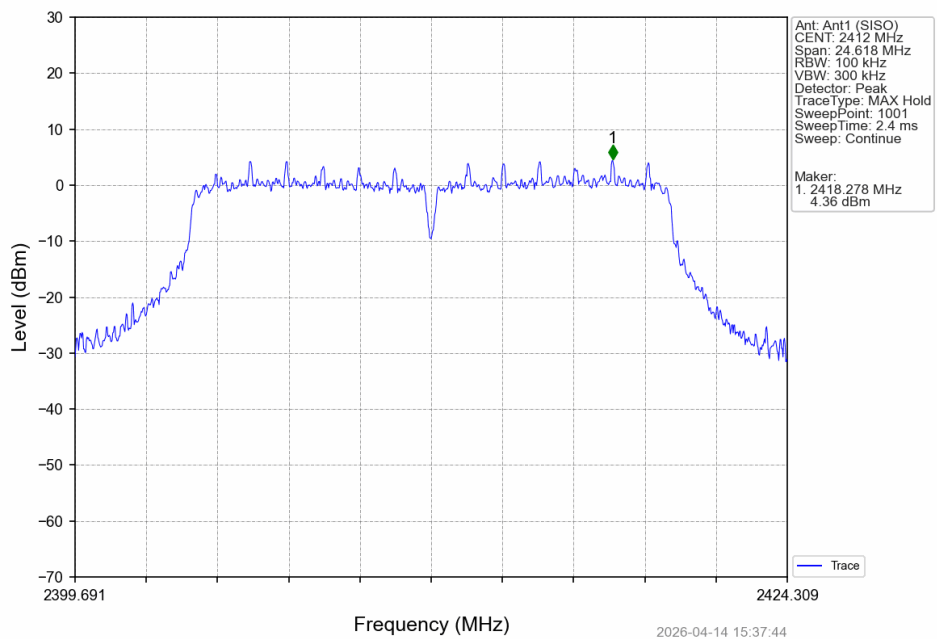
5.2.1 Ref



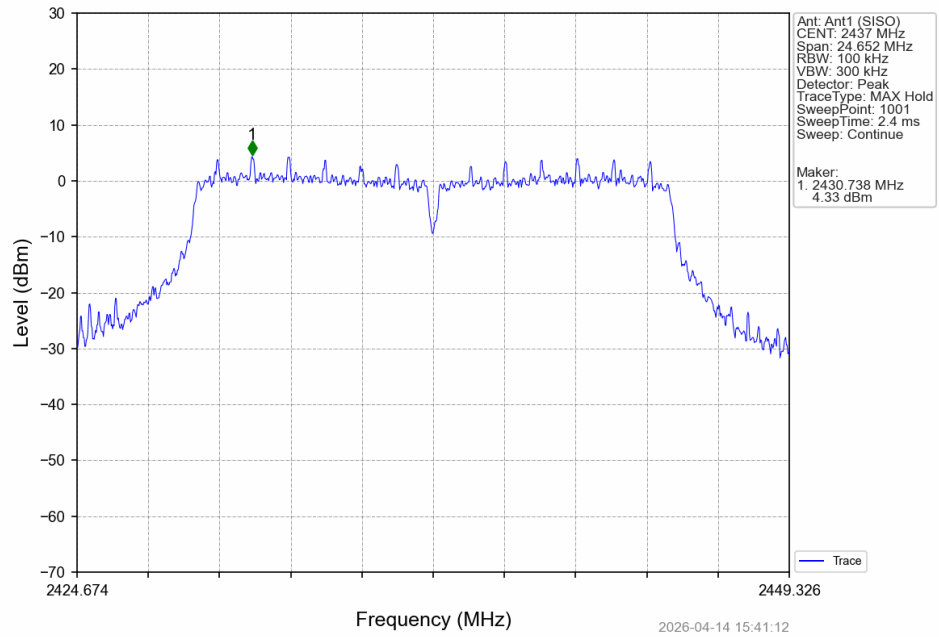
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



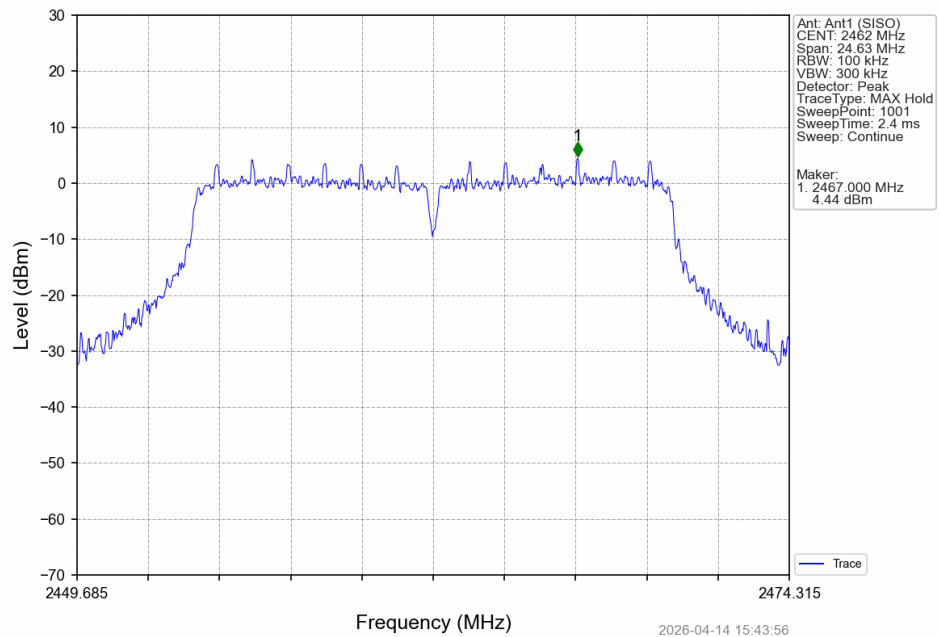
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



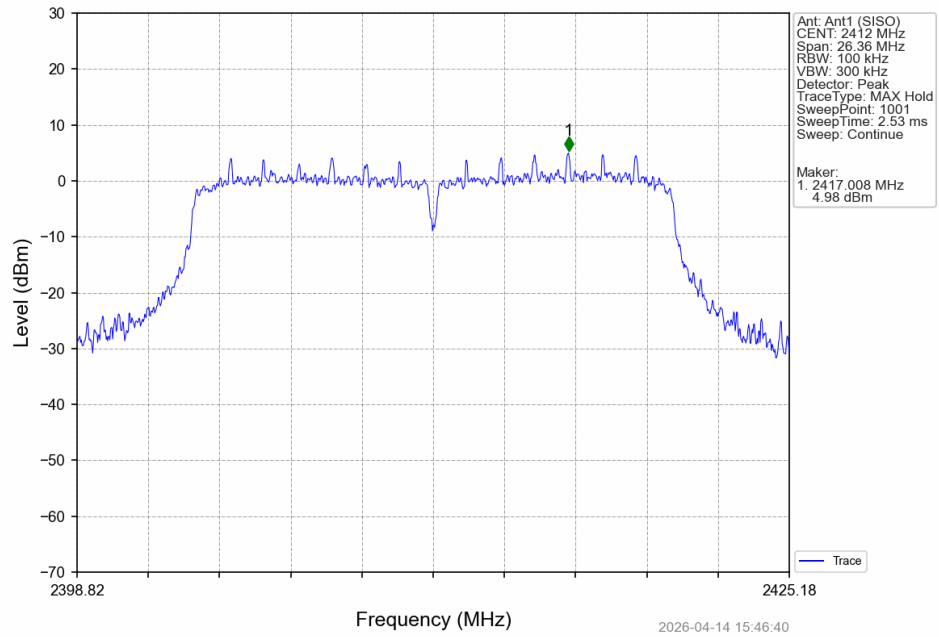
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



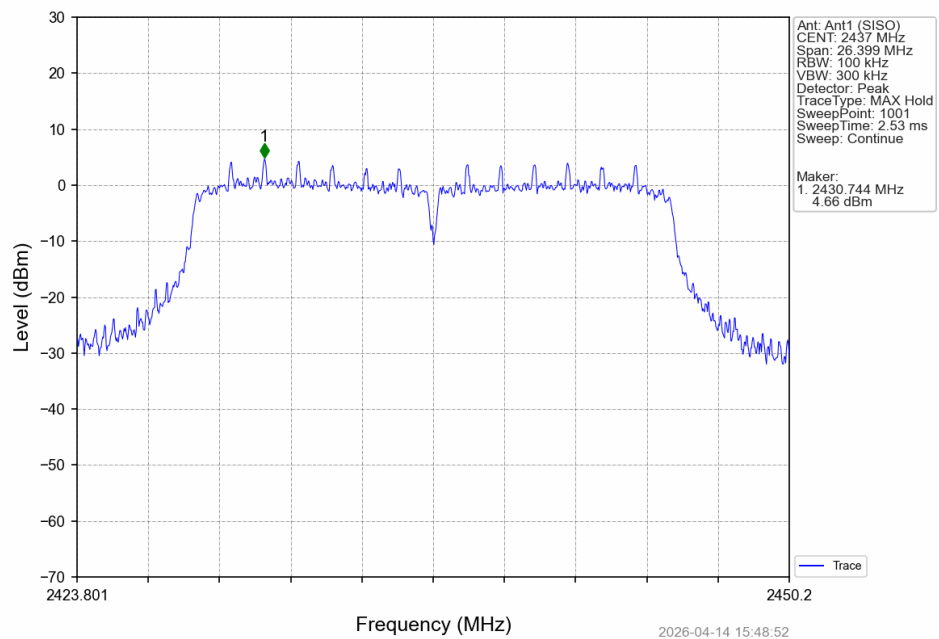
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



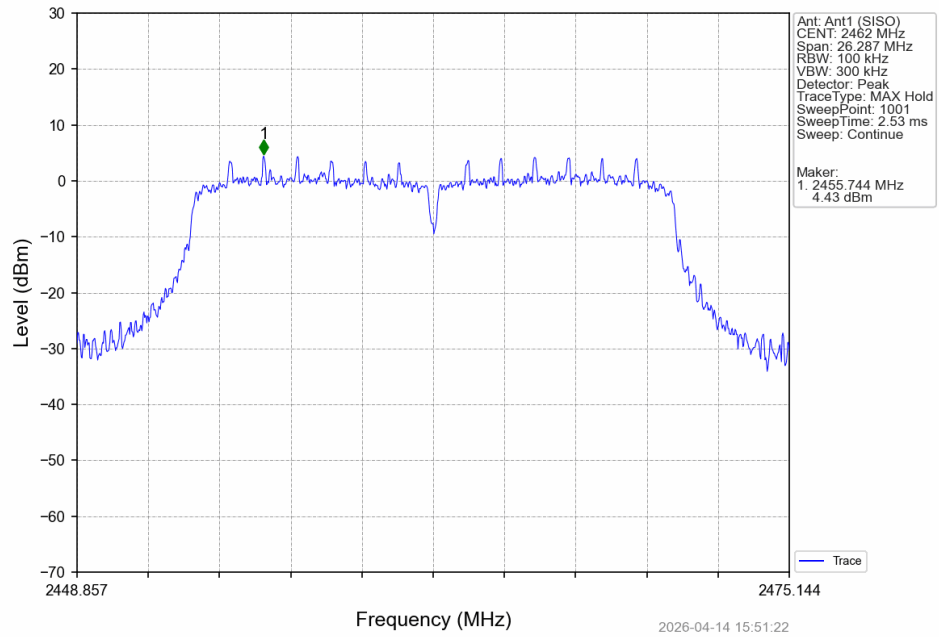
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



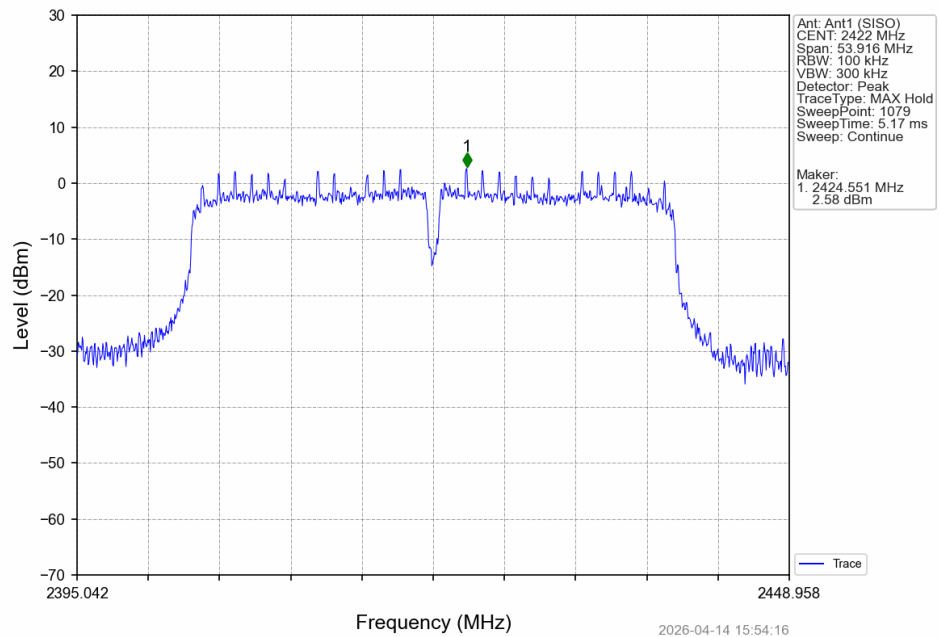
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



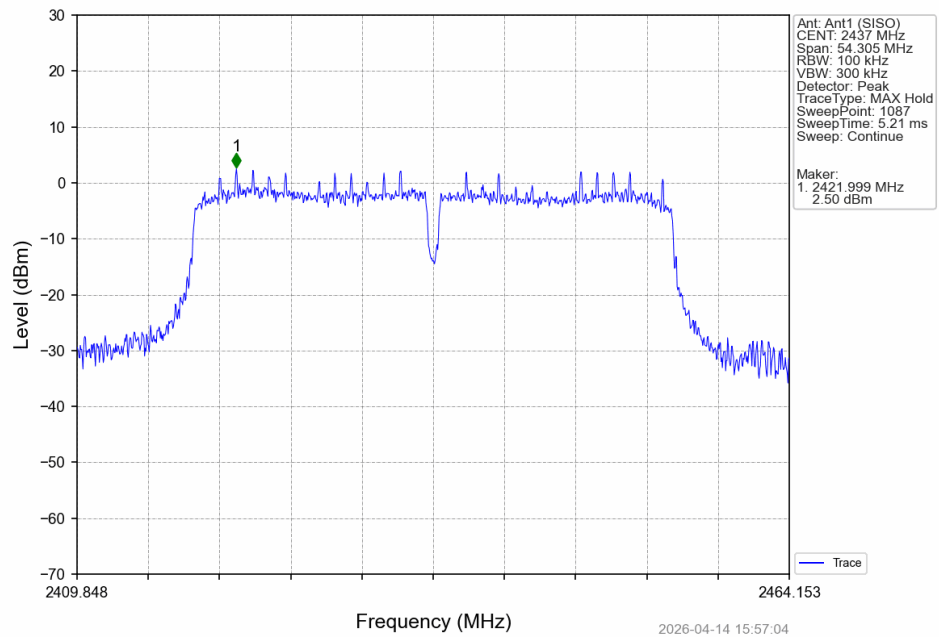
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



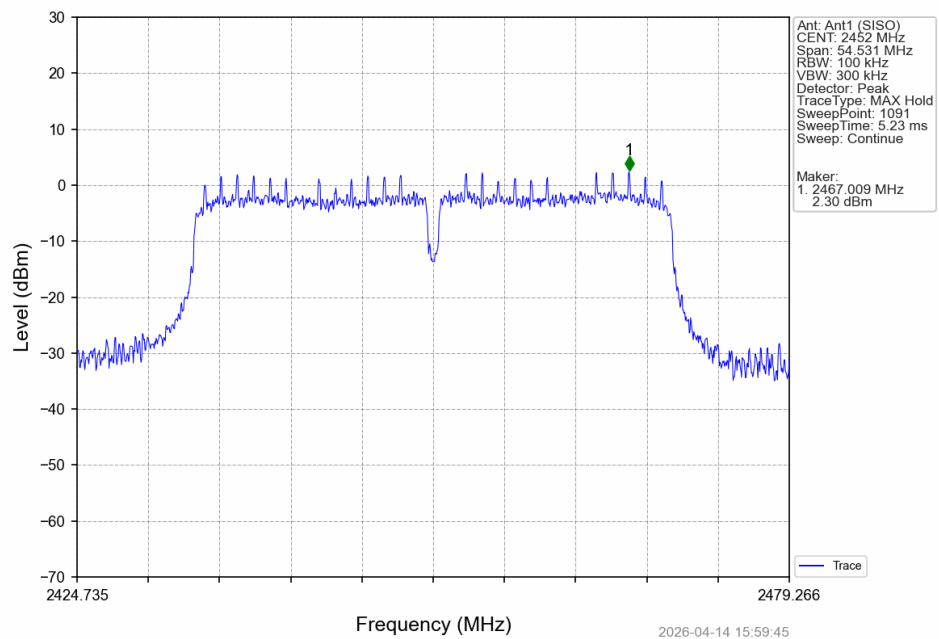
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



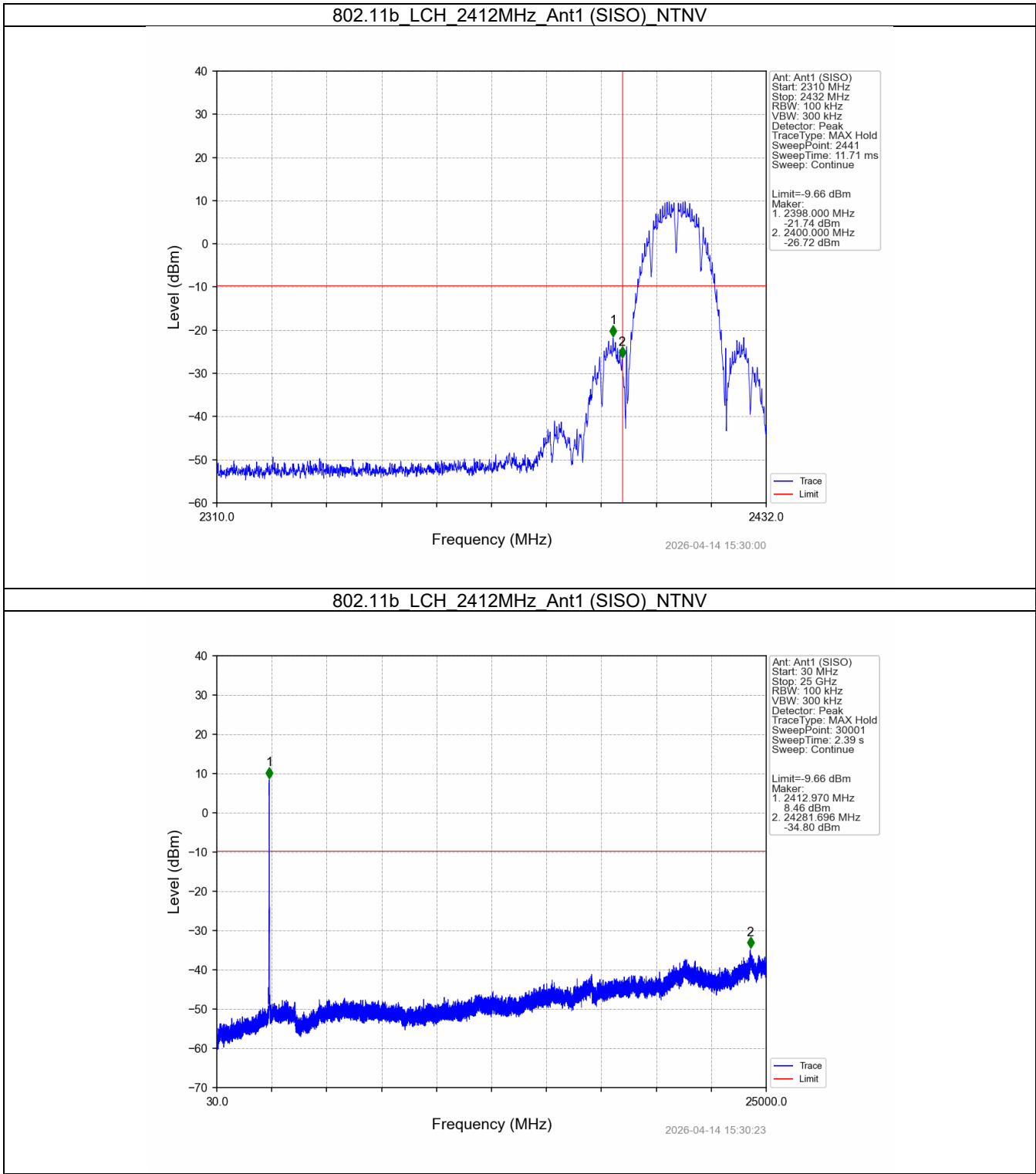
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



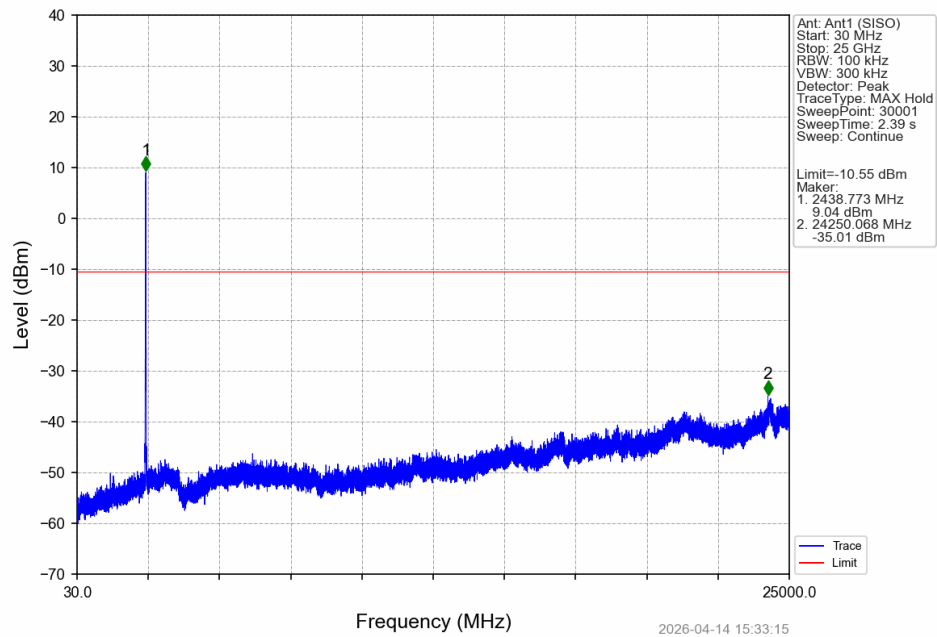
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



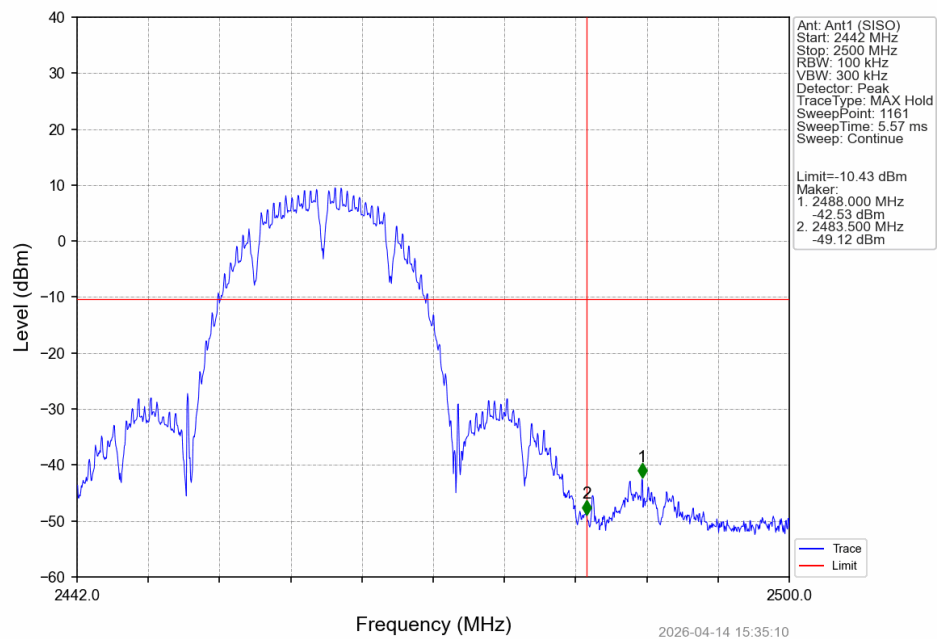
5.2.2 CSE



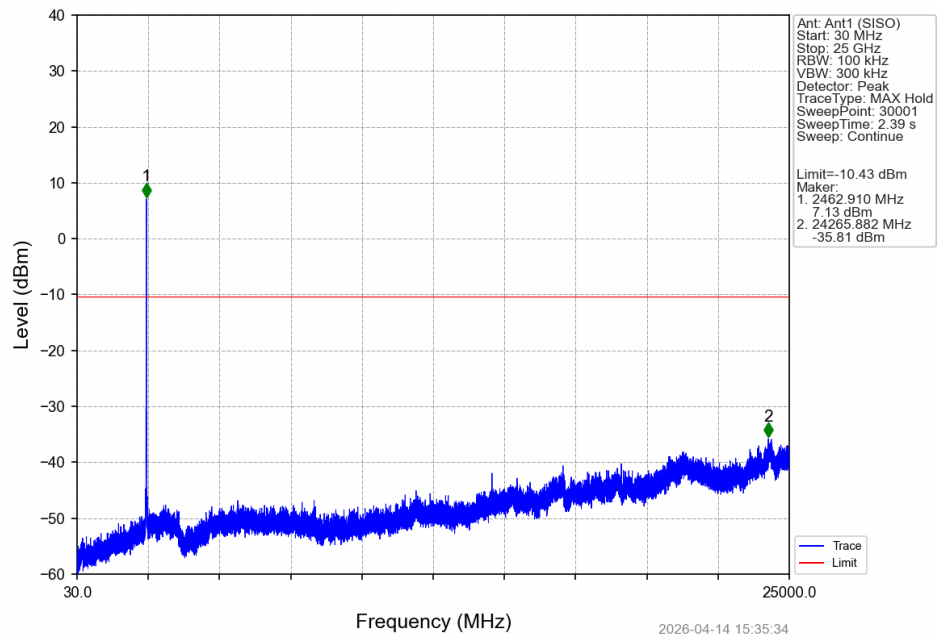
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



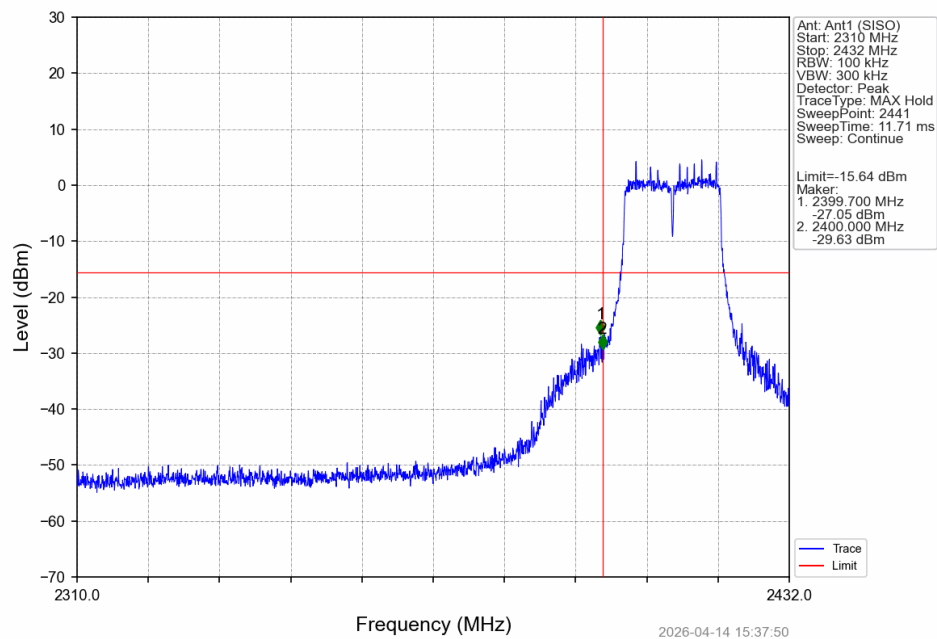
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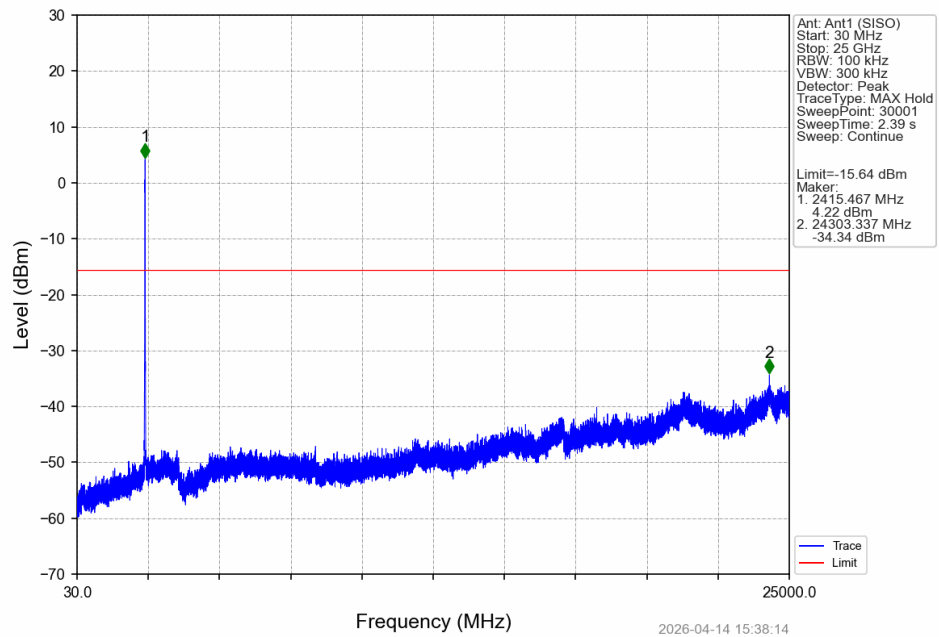
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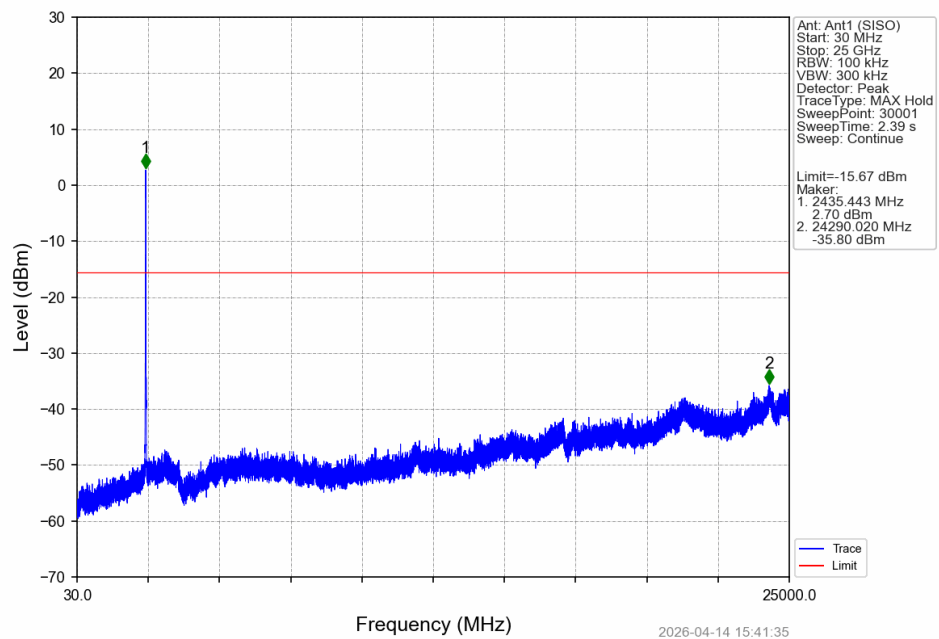
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



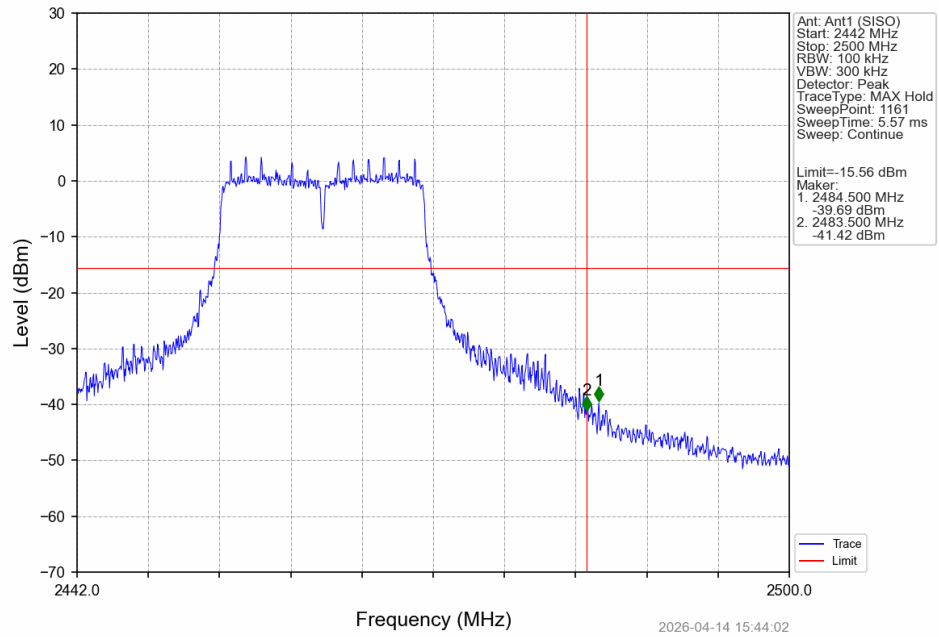
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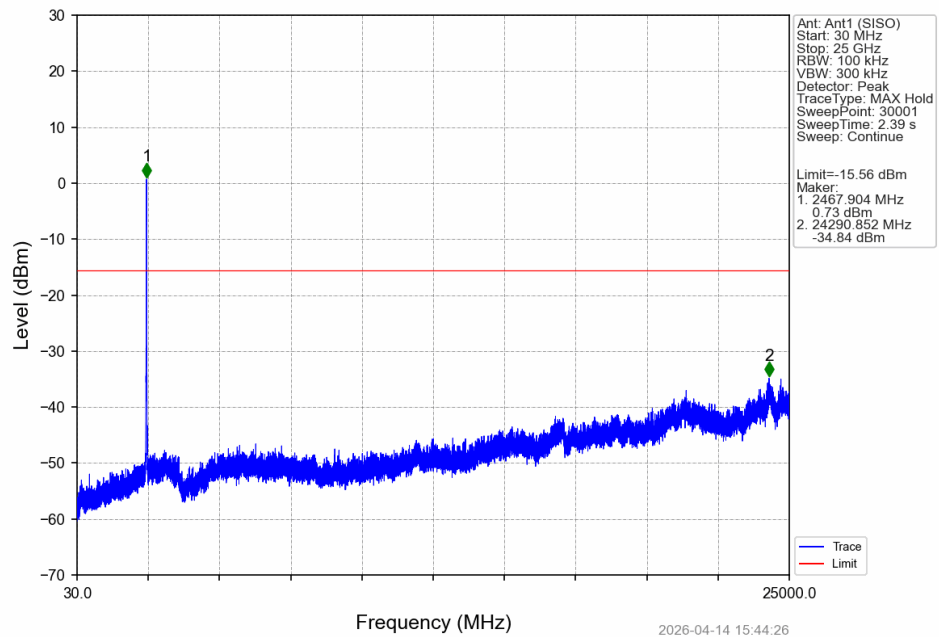
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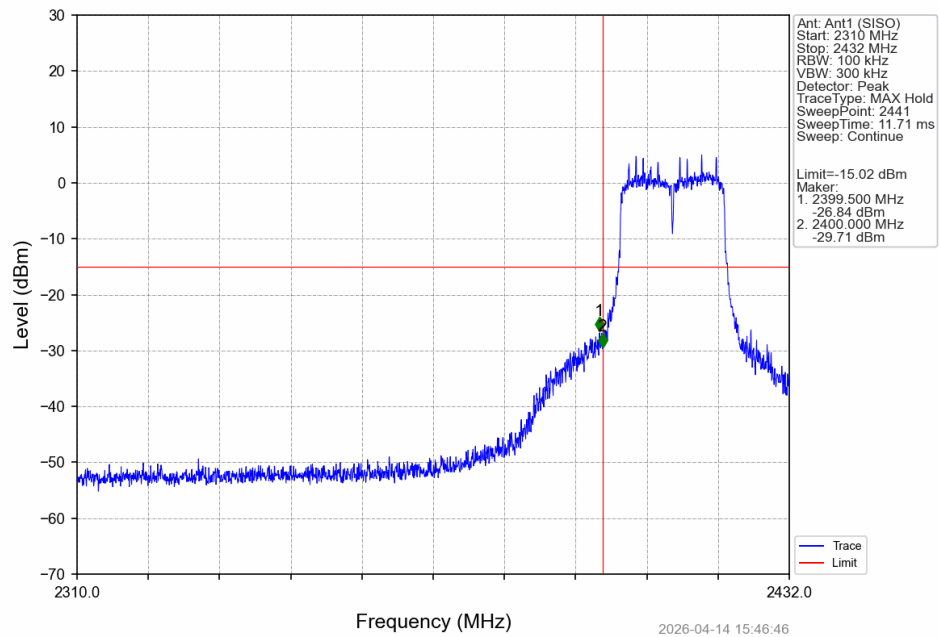
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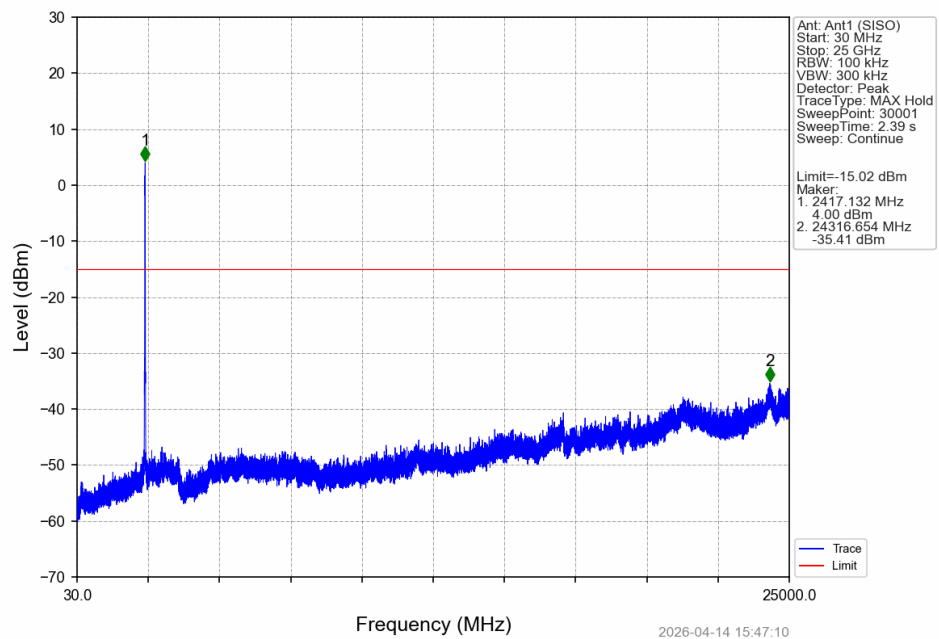
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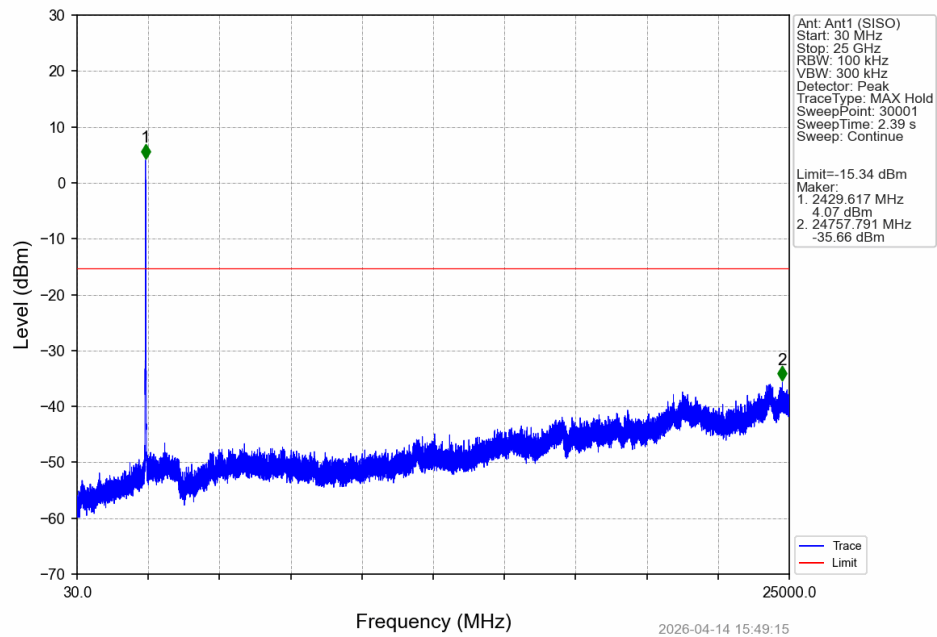
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



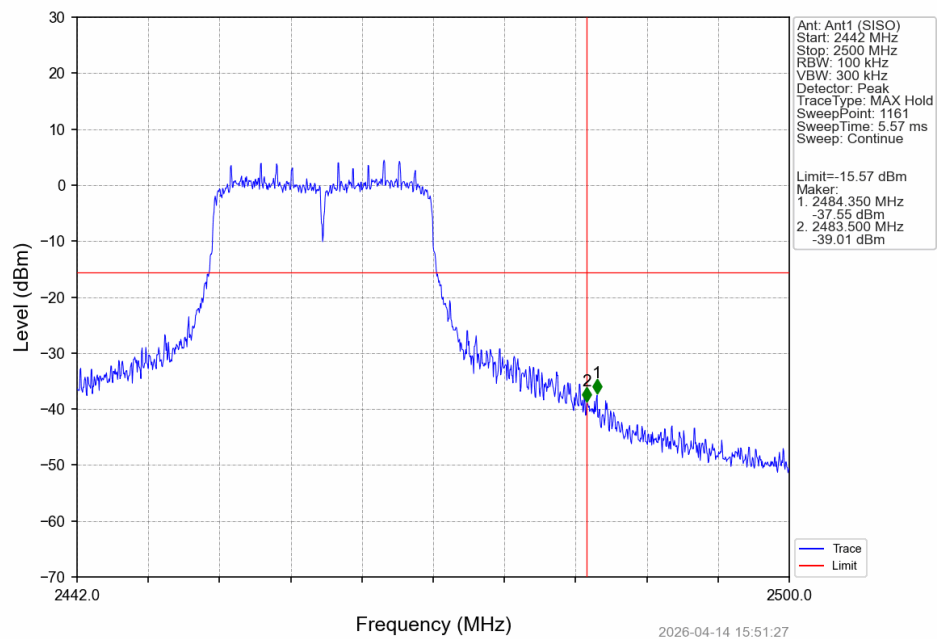
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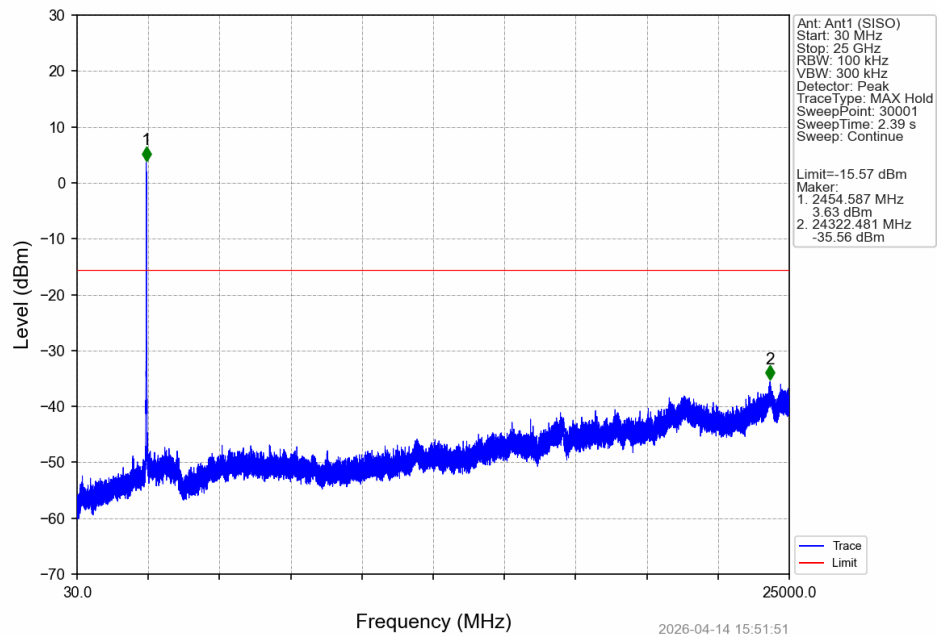
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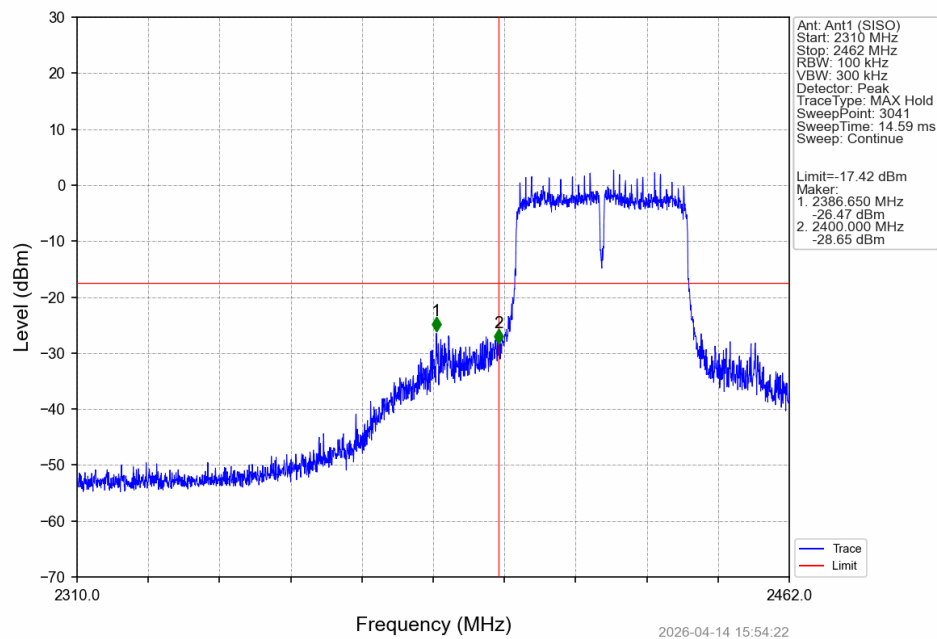
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



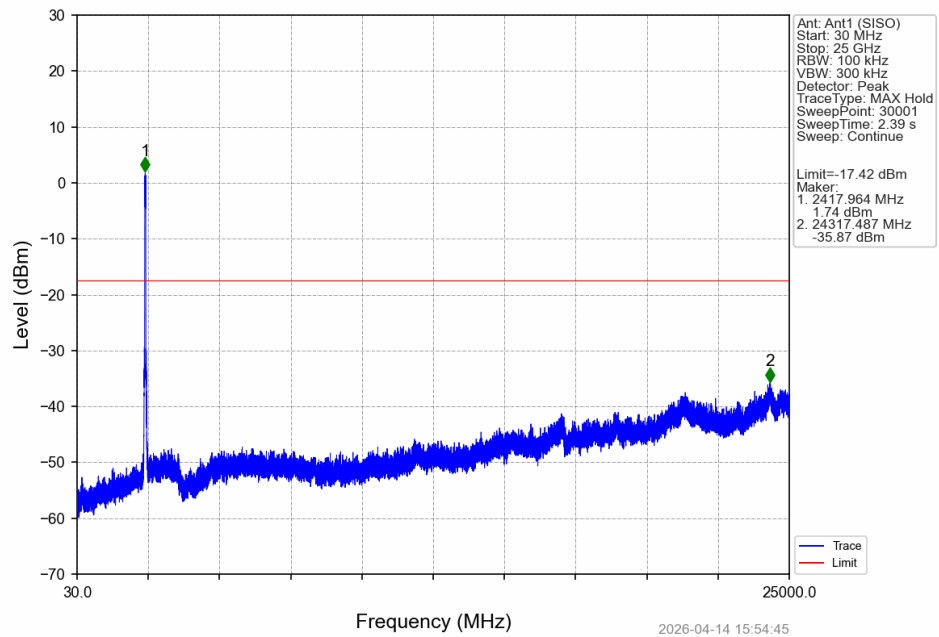
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



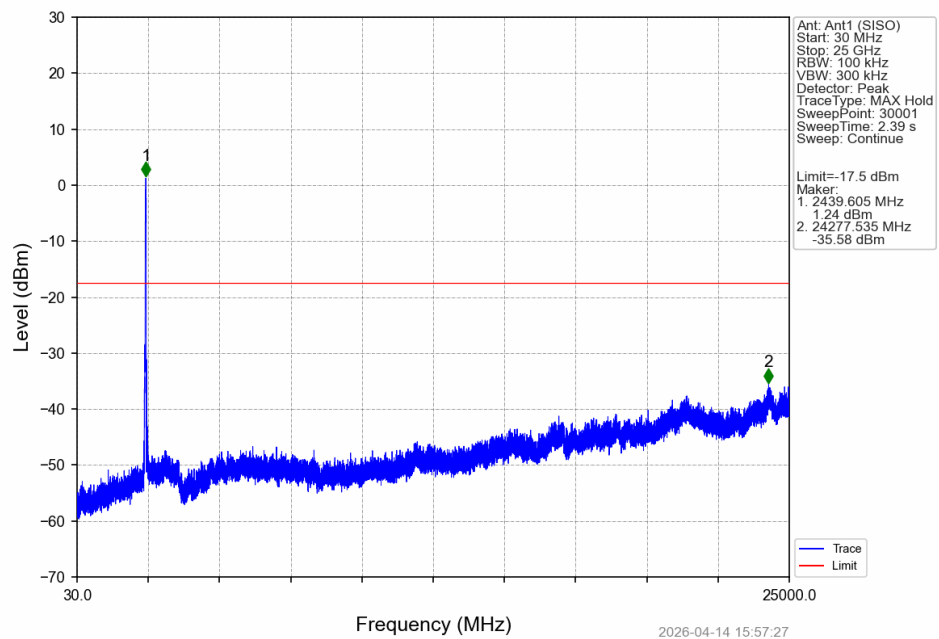
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



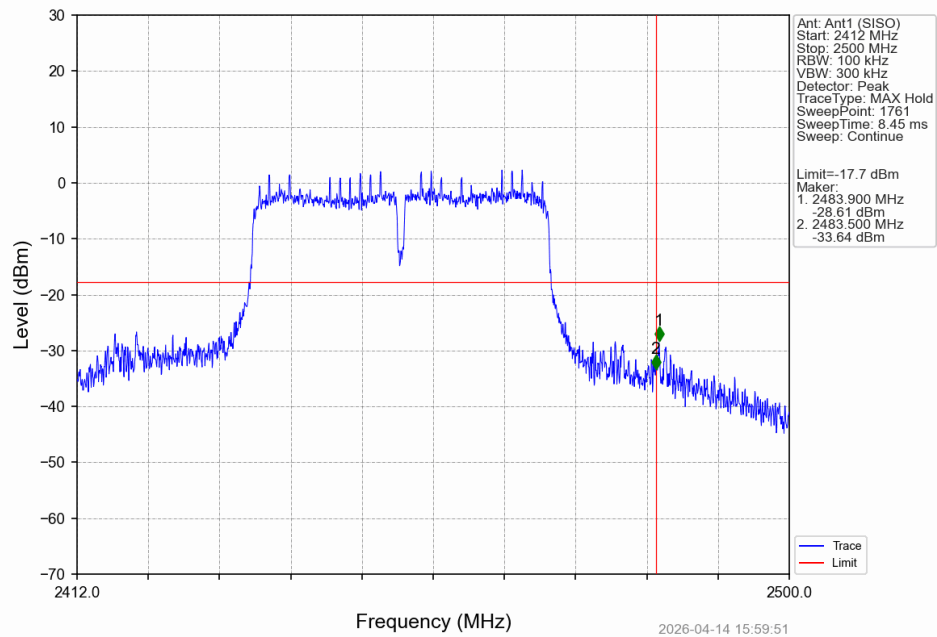
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

