

1. Duty Cycle

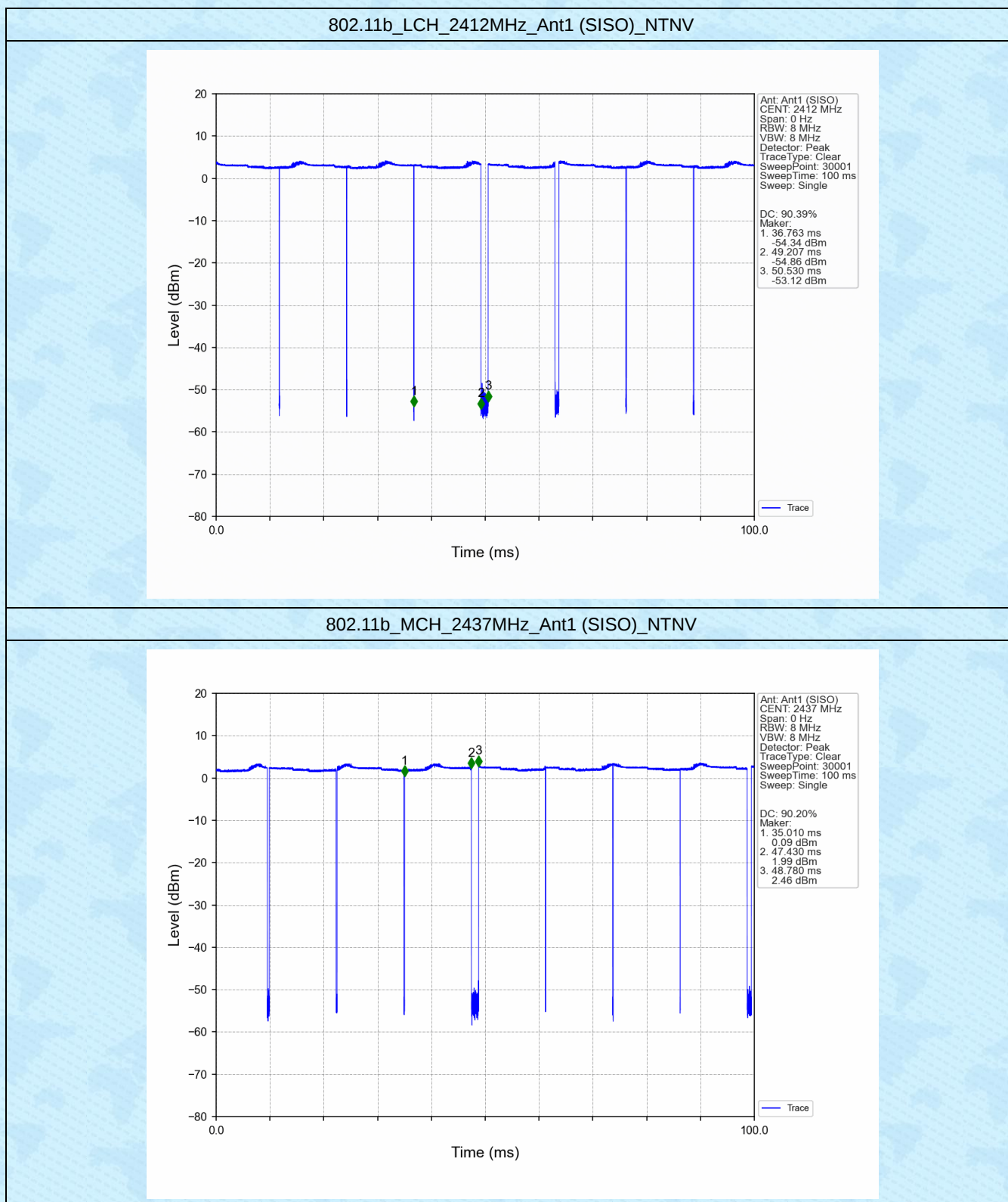
1.1 Test Result

1.1.1 Ant1

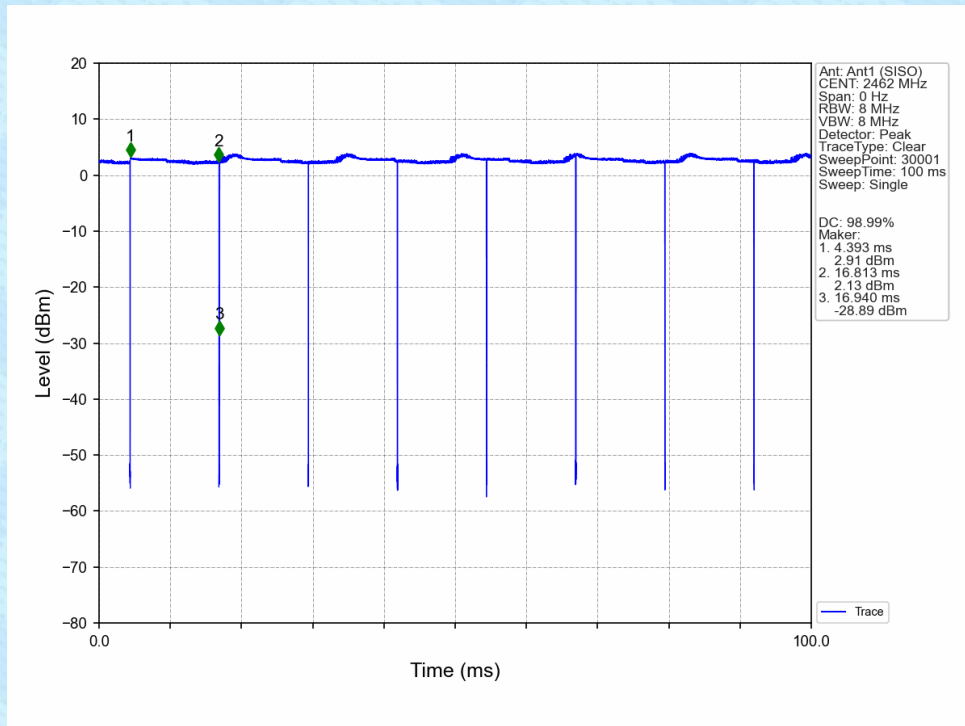
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.444	13.767	90.39	0.44	9.27
		2437	12.420	13.770	90.20	0.45	9.43
		2462	12.420	12.547	98.99	0.04	0.45
802.11g	SISO	2412	2.063	11.433	18.04	7.44	7.52
		2437	2.067	11.293	18.30	7.37	5.49
		2462	2.063	13.723	15.03	8.23	8.21
802.11n (HT20)	SISO	2412	1.920	11.084	17.32	7.61	4.22
		2437	1.920	12.916	14.87	8.28	12.26
		2462	1.920	18.907	10.15	9.93	9.12
802.11n (HT40)	SISO	2422	0.943	13.433	7.02	11.54	9.09
		2437	0.946	10.970	8.62	10.64	1.90
		2452	0.946	12.343	7.66	11.16	4.61

1.2 Test Graph

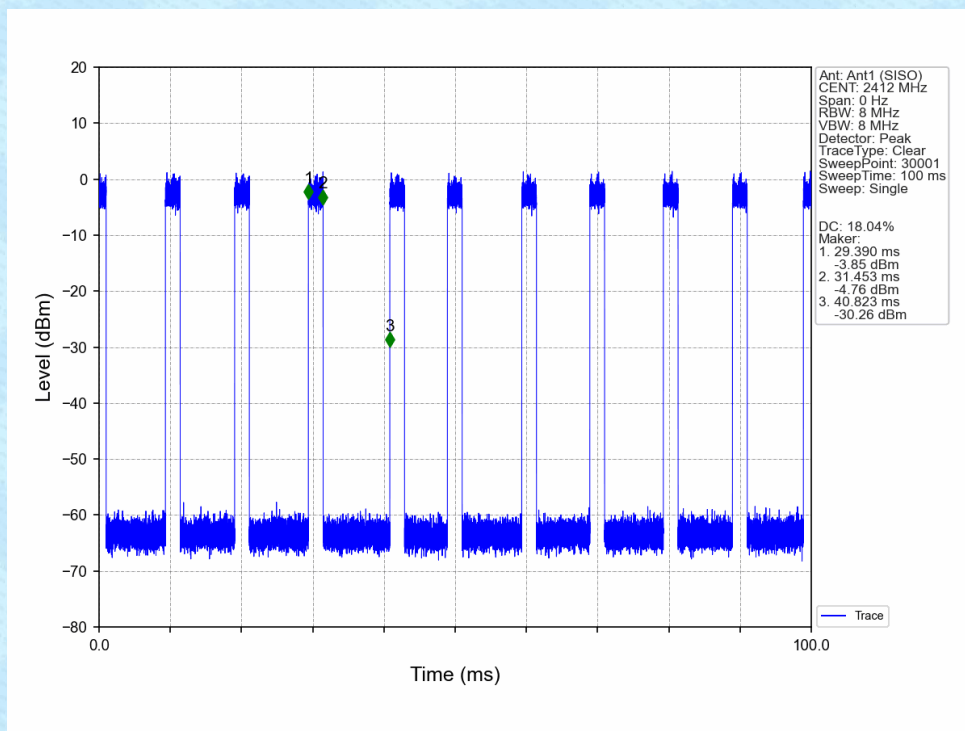
1.2.1 Ant1



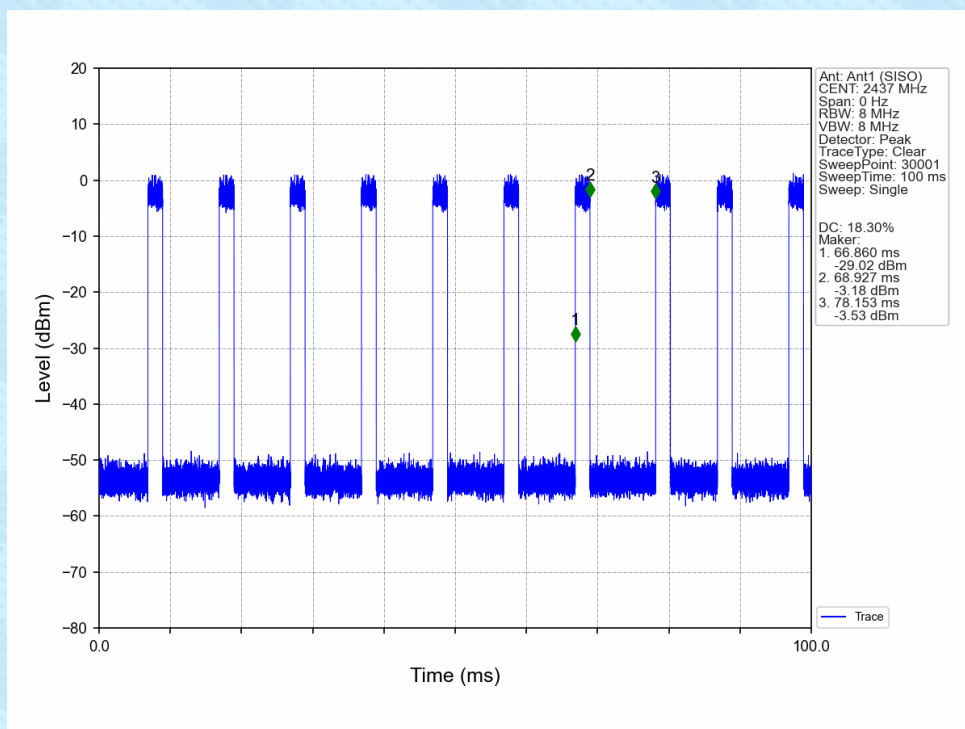
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



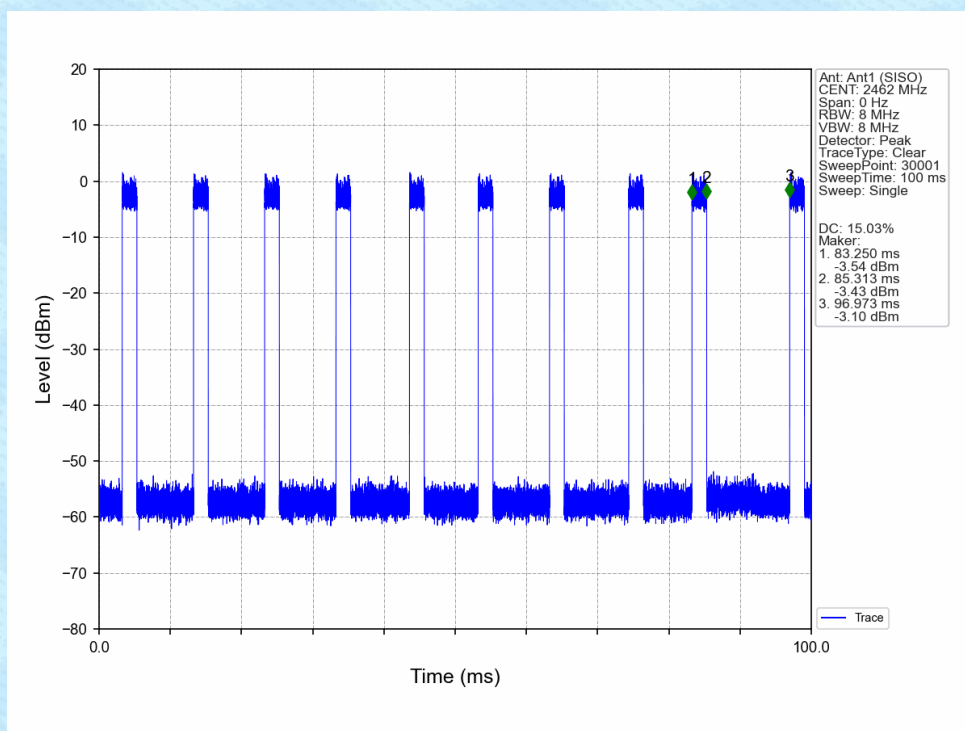
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



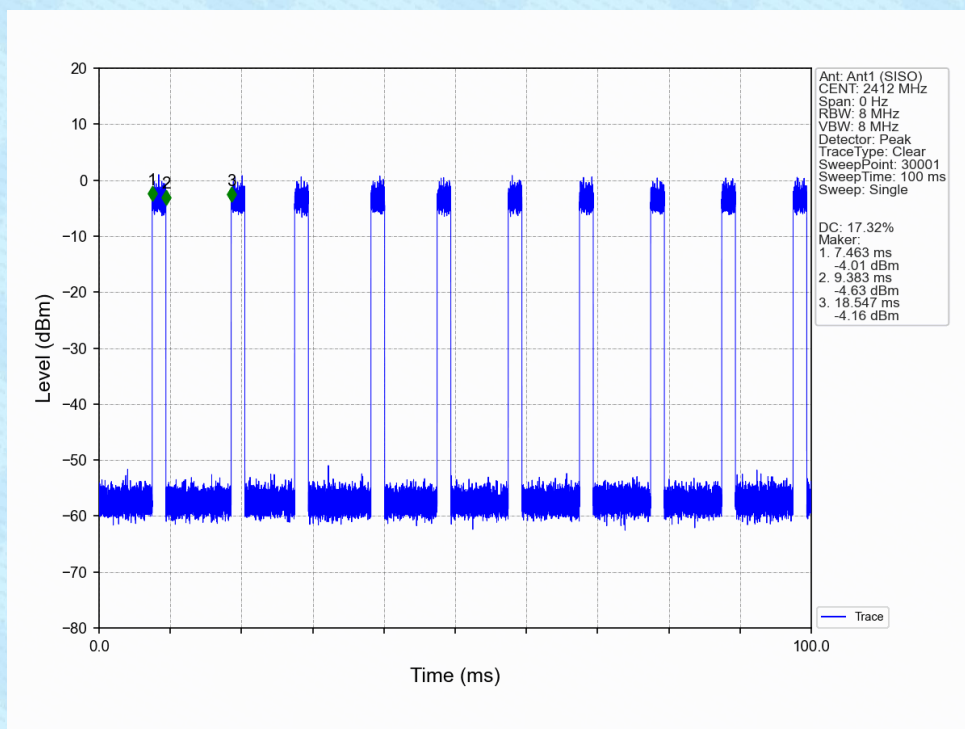
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



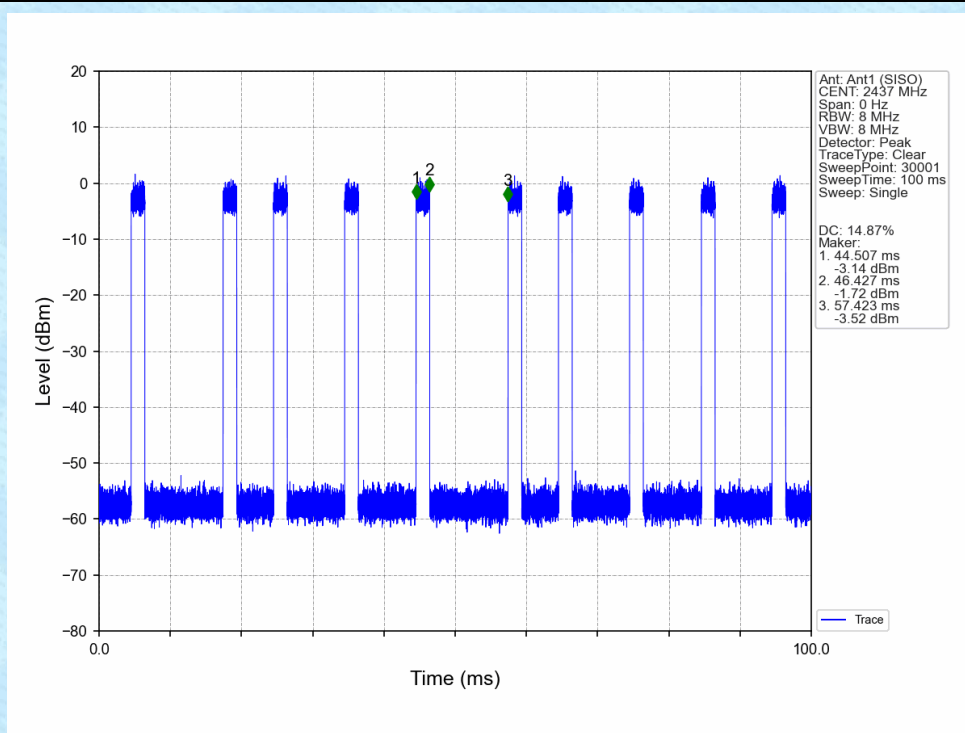
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



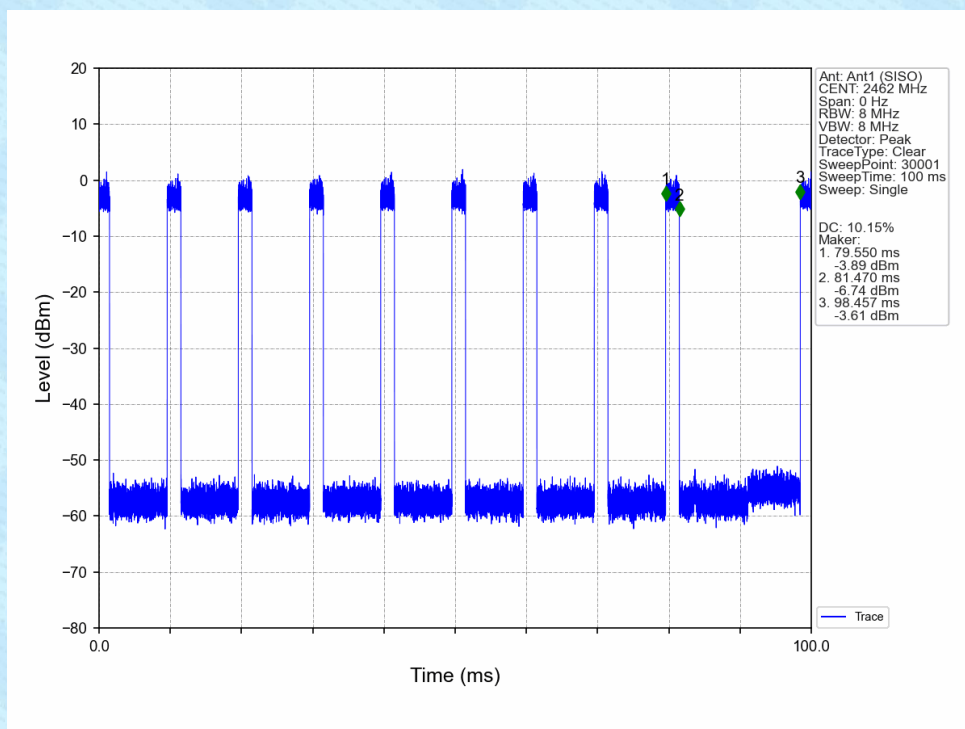
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



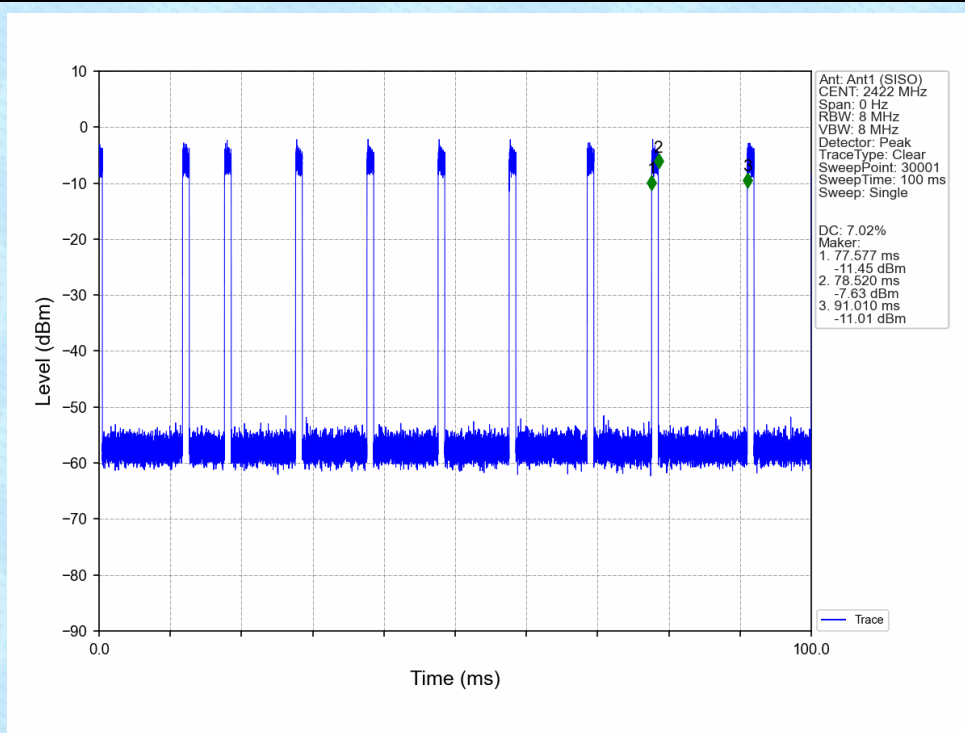
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



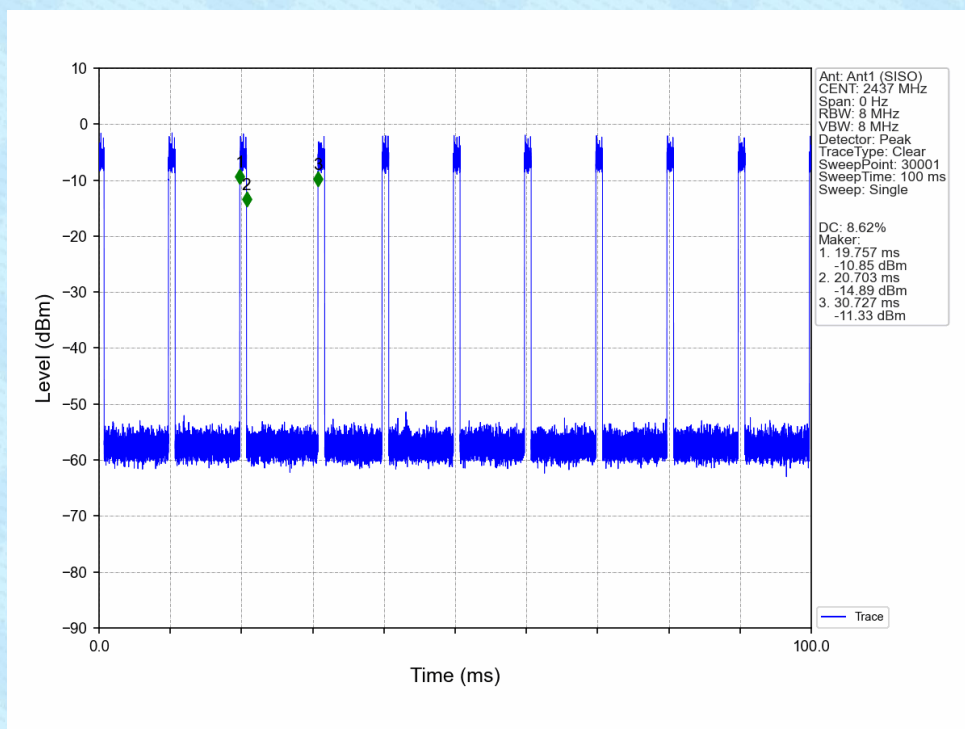
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



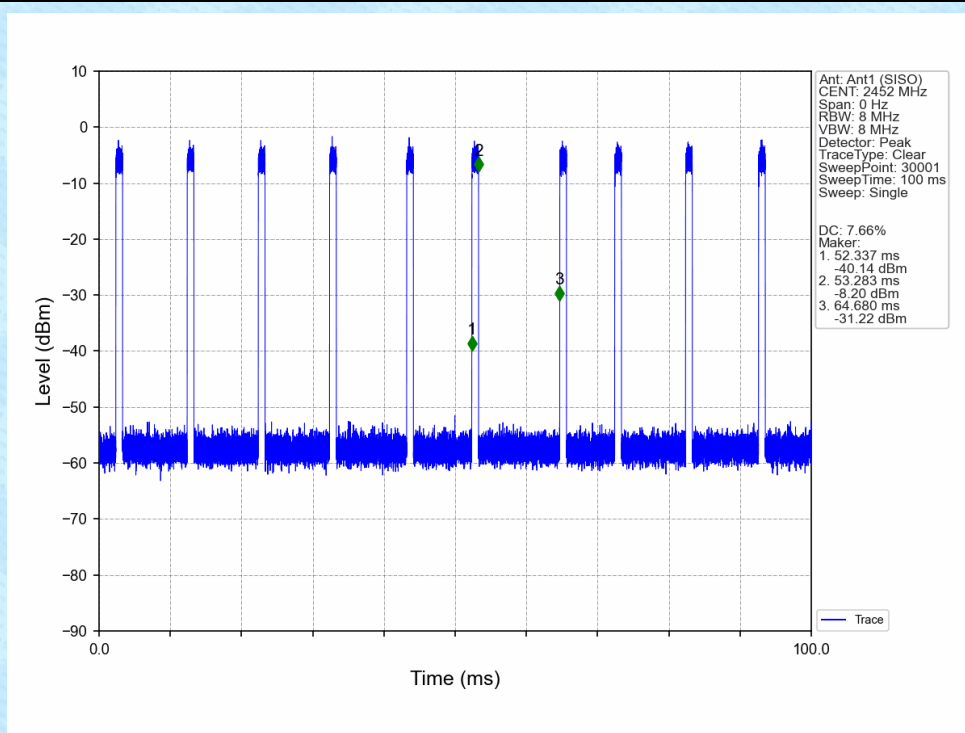
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

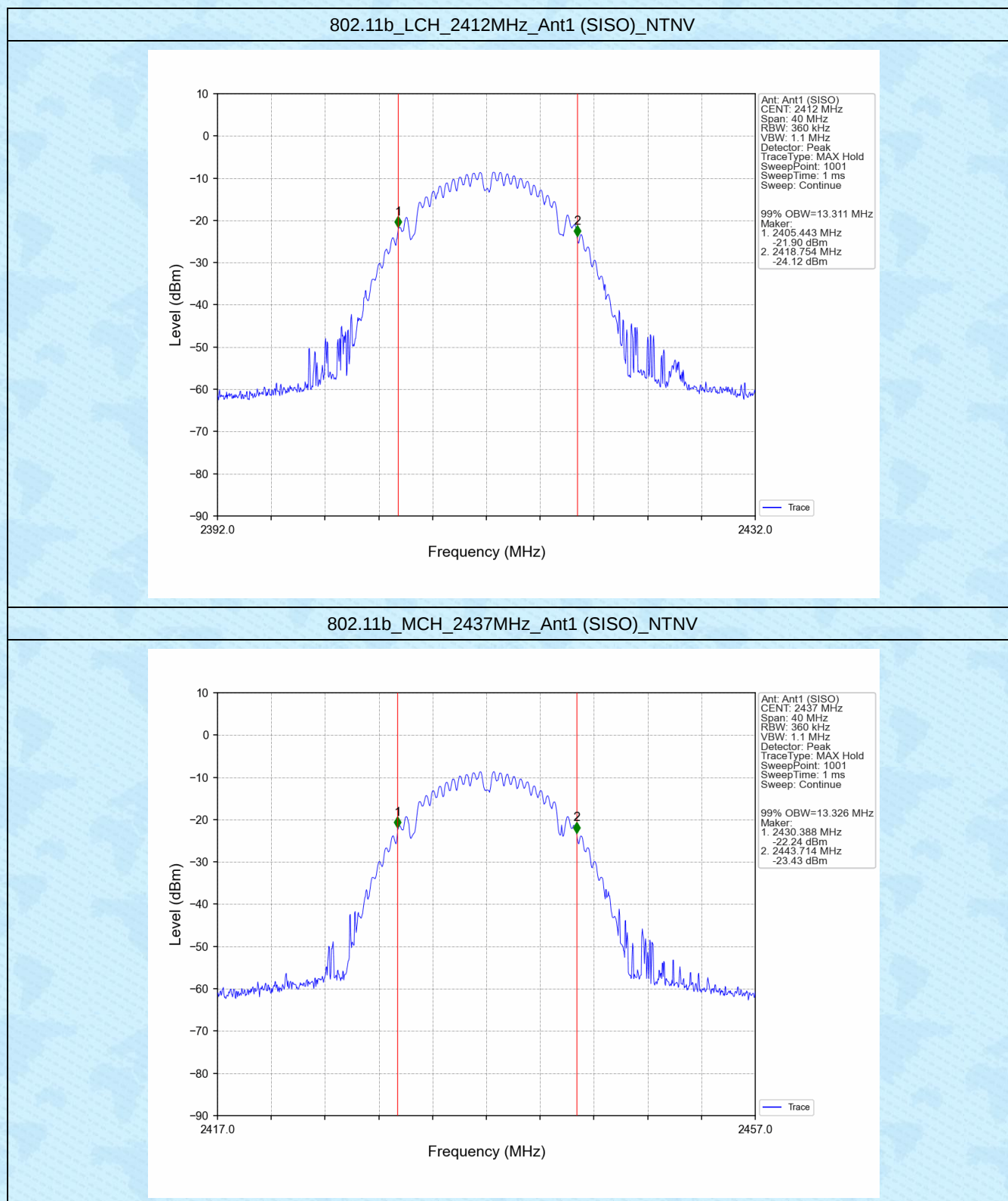
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.311	/	Pass
		2437	1	13.326	/	Pass
		2462	1	13.311	/	Pass
802.11g	SISO	2412	1	17.485	/	Pass
		2437	1	17.532	/	Pass
		2462	1	17.445	/	Pass
802.11n (HT20)	SISO	2412	1	18.393	/	Pass
		2437	1	18.410	/	Pass
		2462	1	18.440	/	Pass
802.11n (HT40)	SISO	2422	1	36.310	/	Pass
		2437	1	36.390	/	Pass
		2452	1	36.395	/	Pass

2.1.2 6dB BW

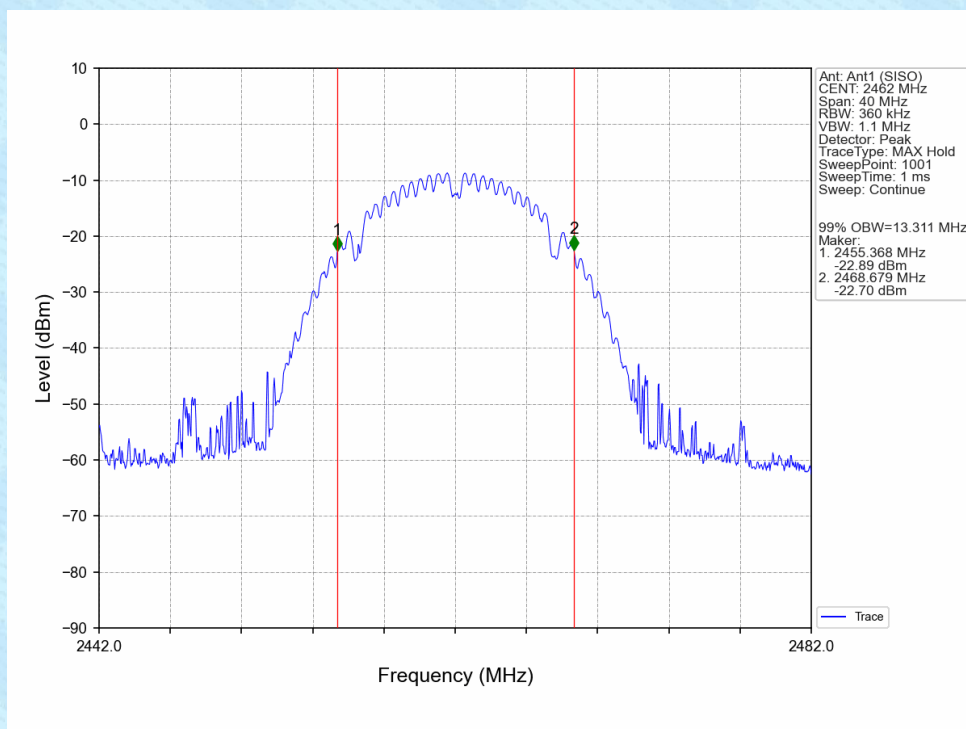
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.061	≥ 0.5	Pass
		2437	1	8.606	≥ 0.5	Pass
		2462	1	8.564	≥ 0.5	Pass
802.11g	SISO	2412	1	16.386	≥ 0.5	Pass
		2437	1	16.370	≥ 0.5	Pass
		2462	1	16.374	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.351	≥ 0.5	Pass
		2437	1	17.561	≥ 0.5	Pass
		2462	1	17.575	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	34.275	≥ 0.5	Pass
		2437	1	35.095	≥ 0.5	Pass
		2452	1	34.833	≥ 0.5	Pass

2.2 Test Graph

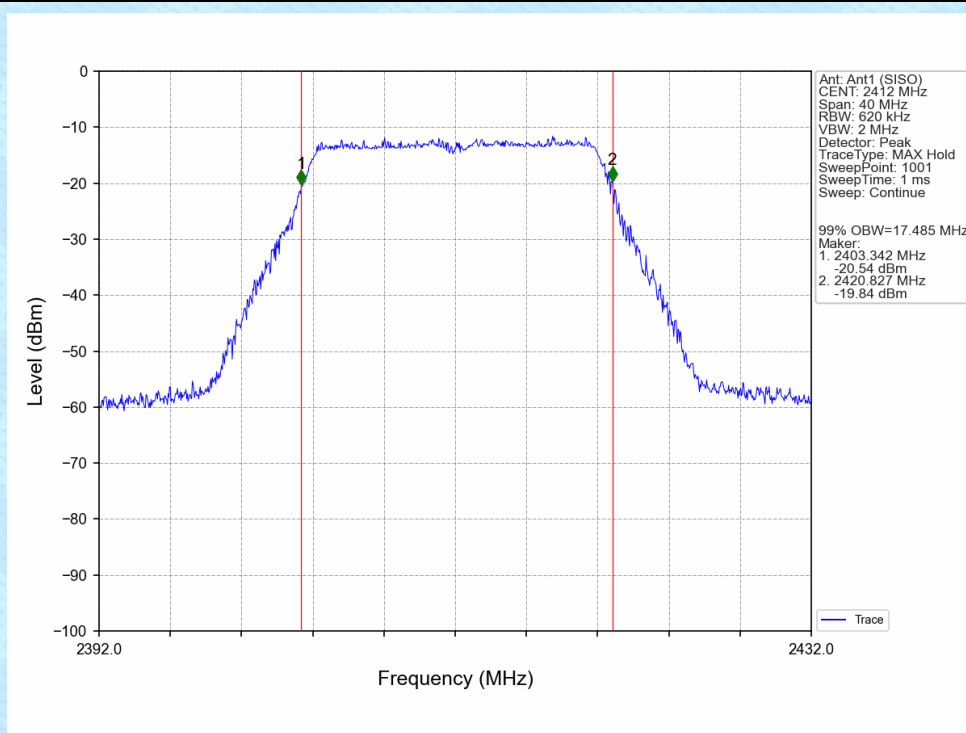
2.2.1 OBW



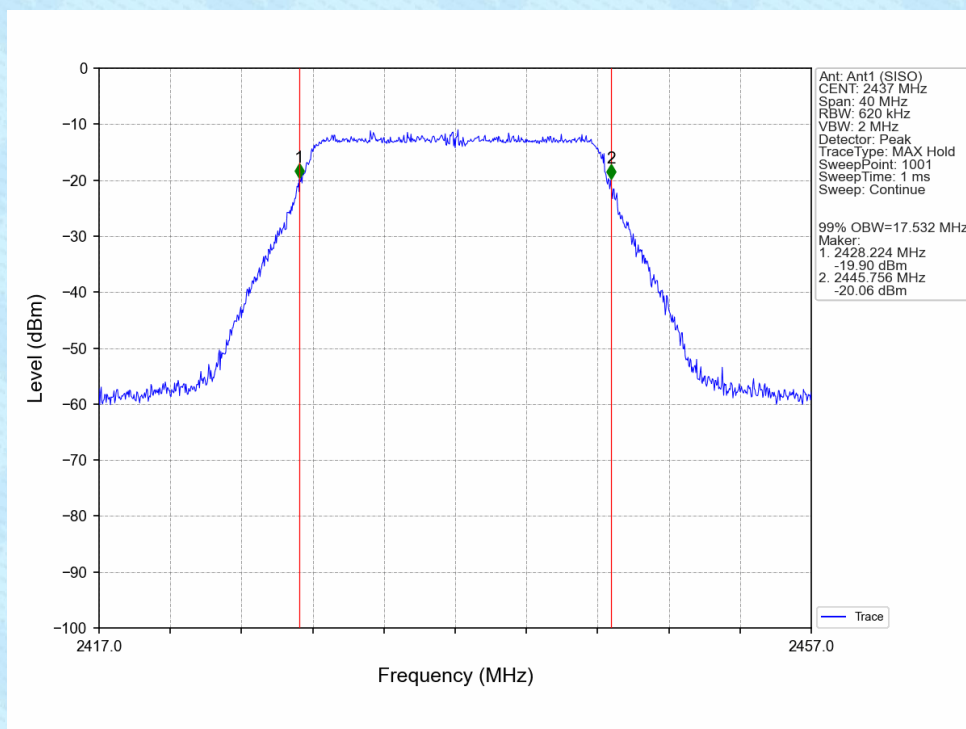
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



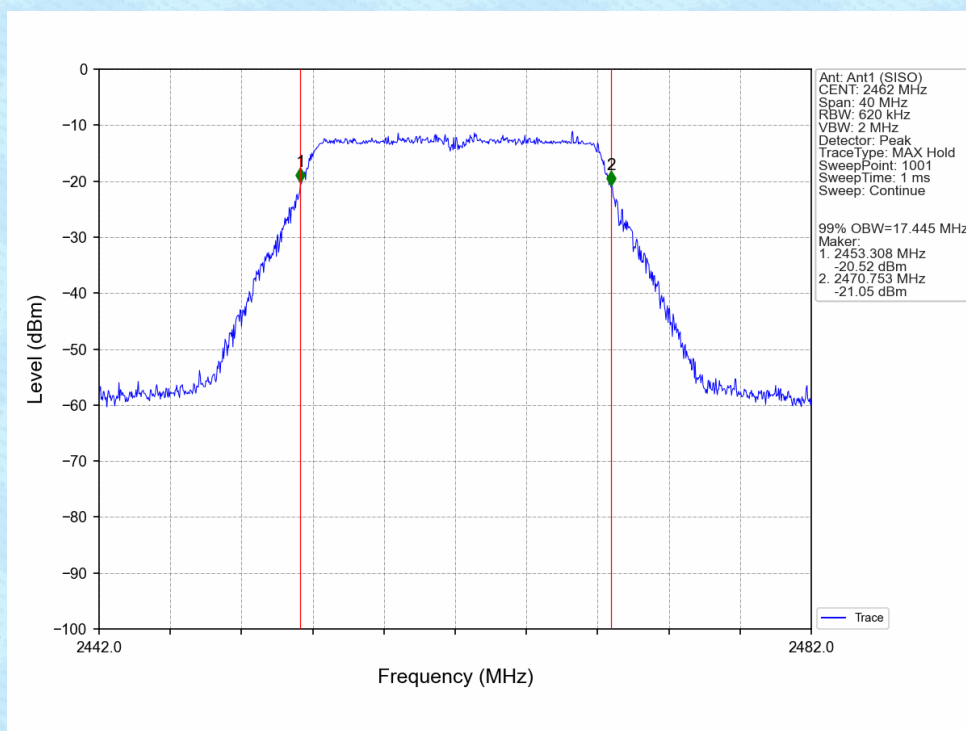
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



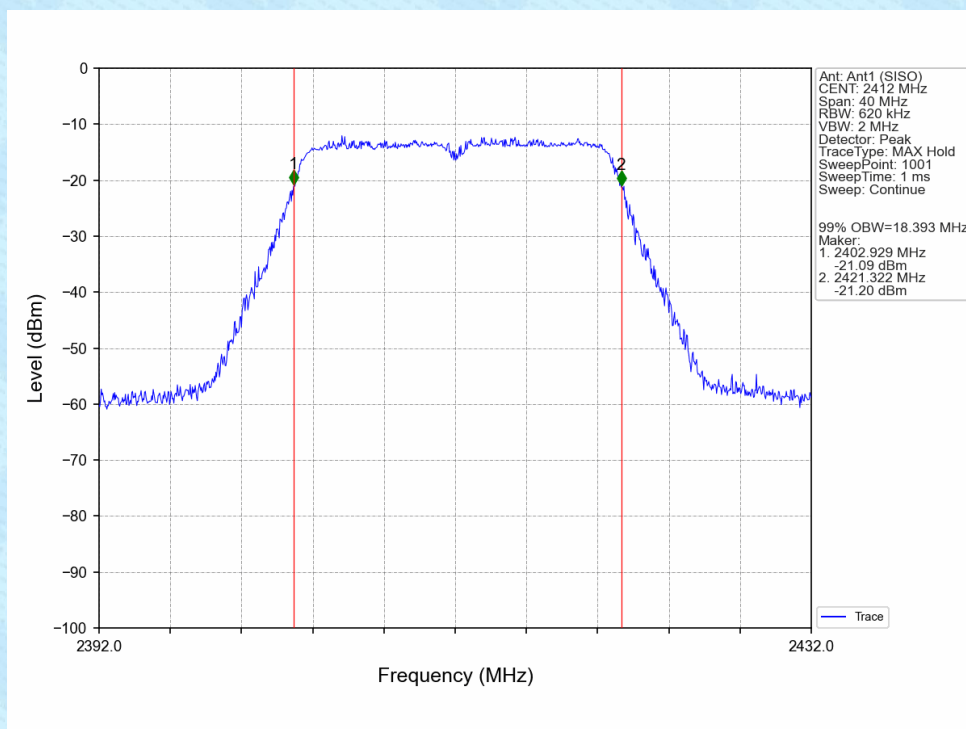
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



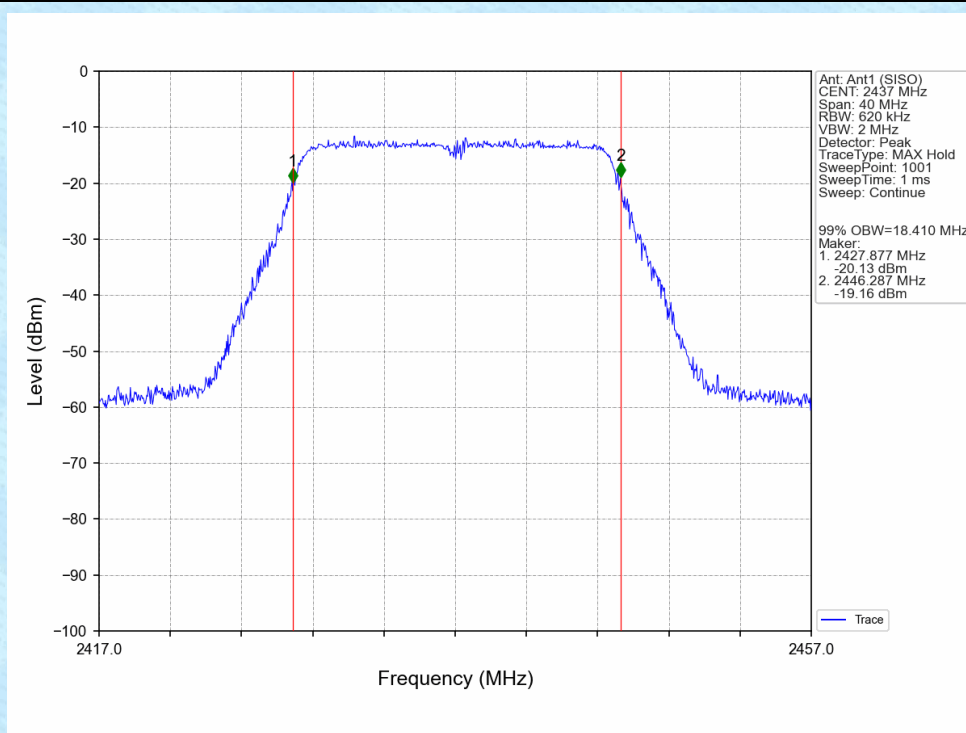
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



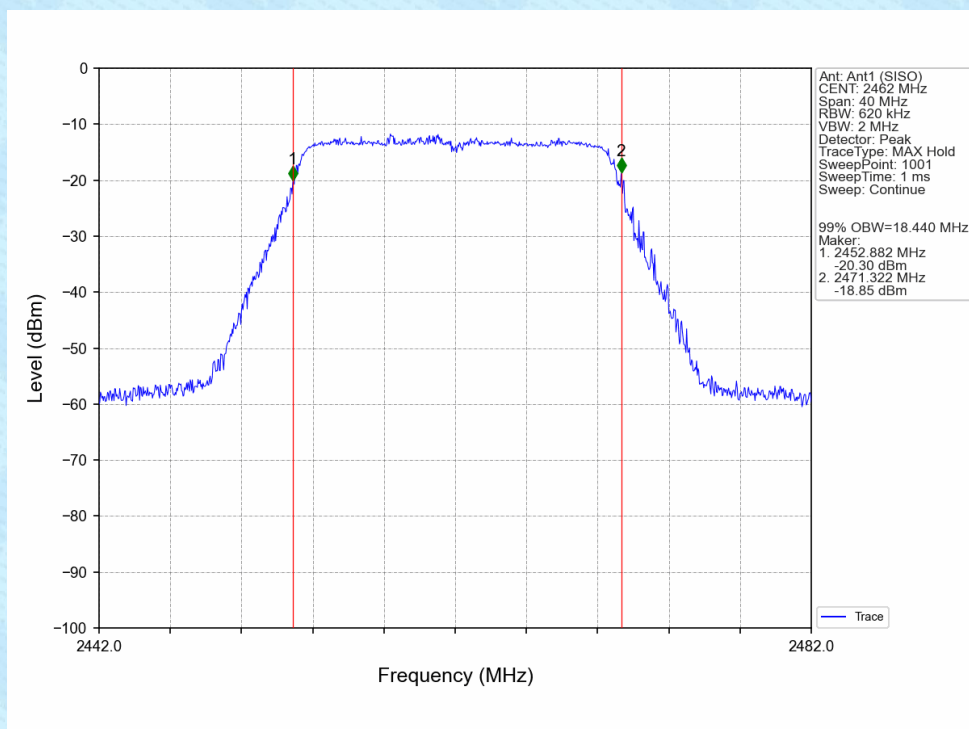
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



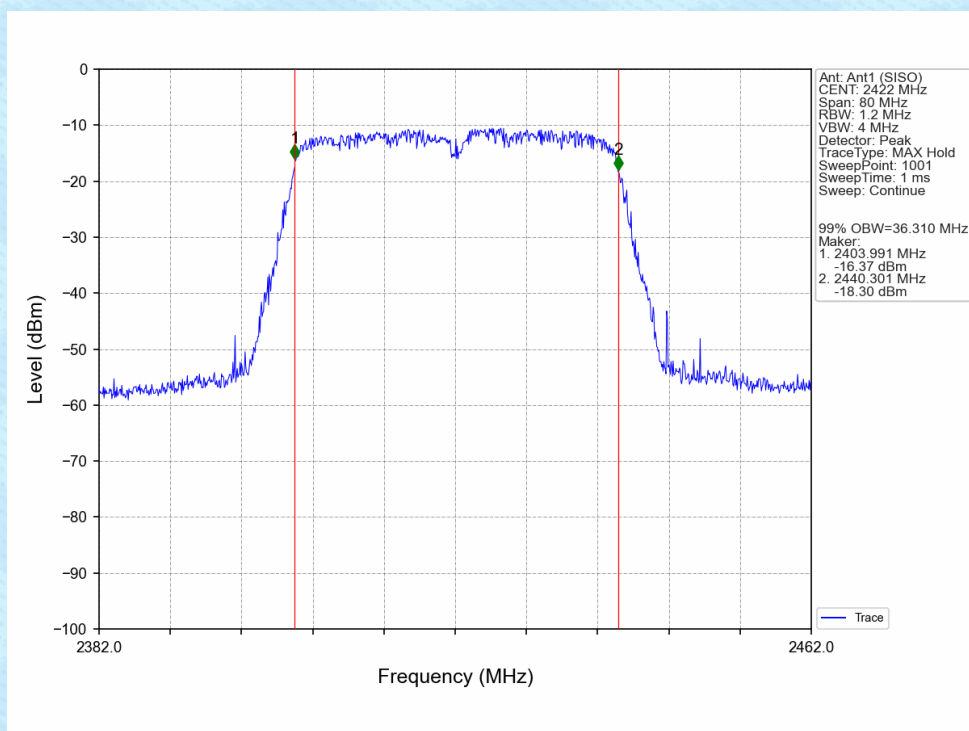
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



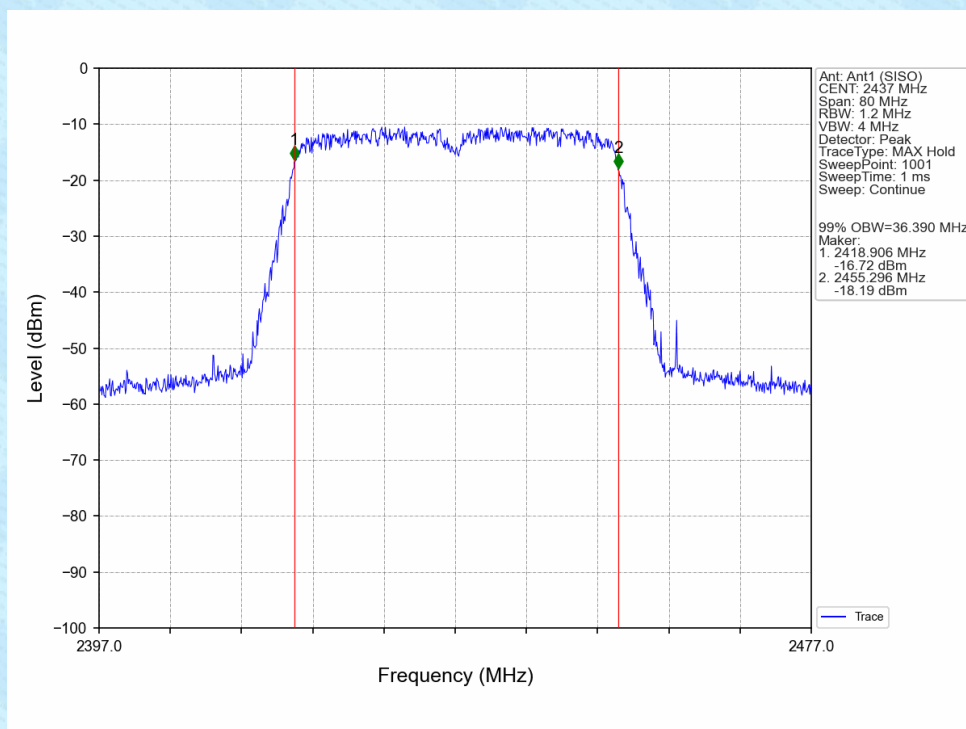
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



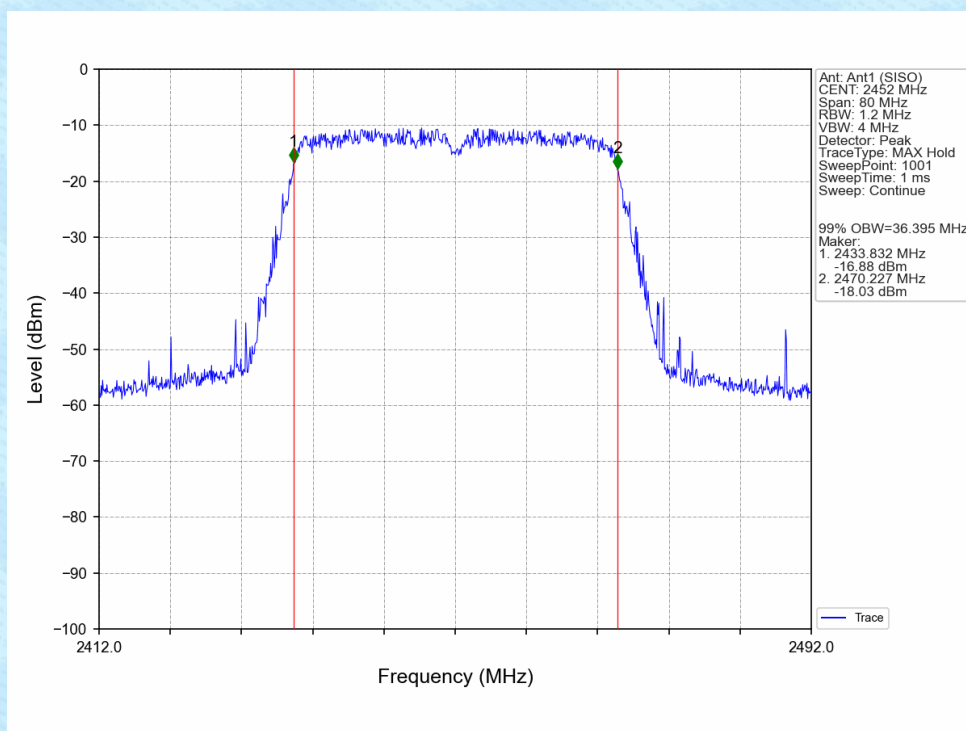
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

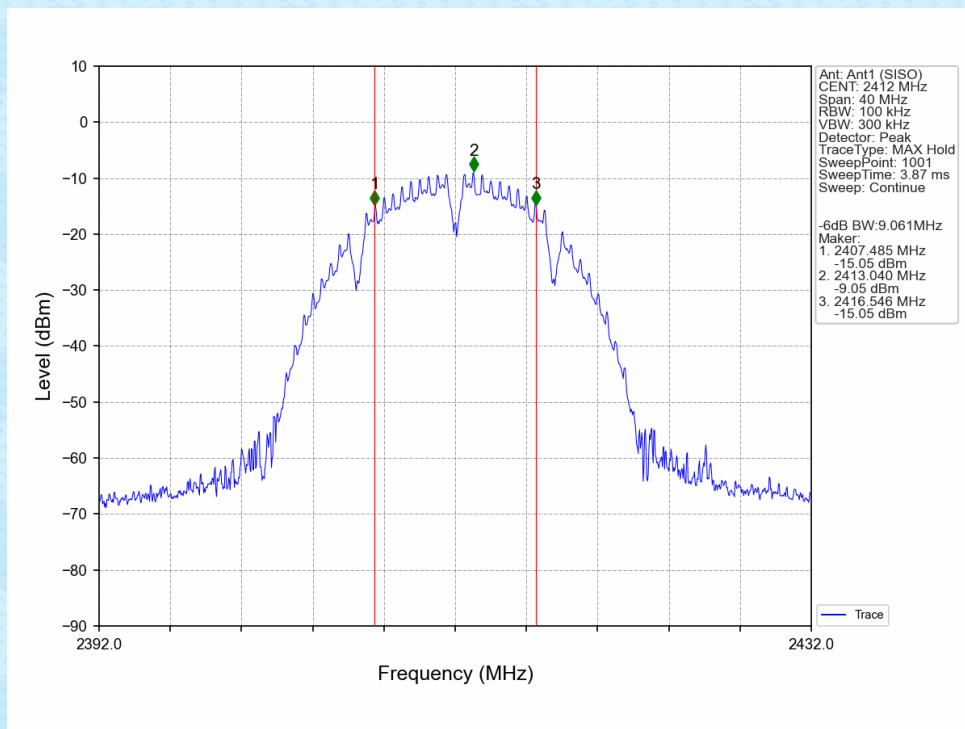


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

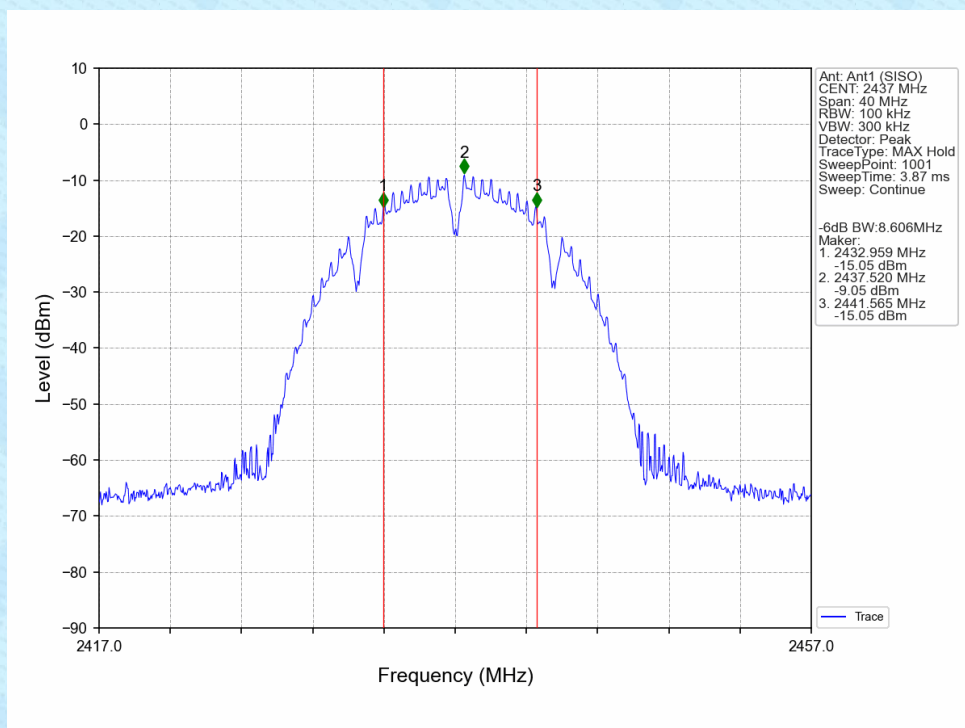


2.2.2 6dB BW

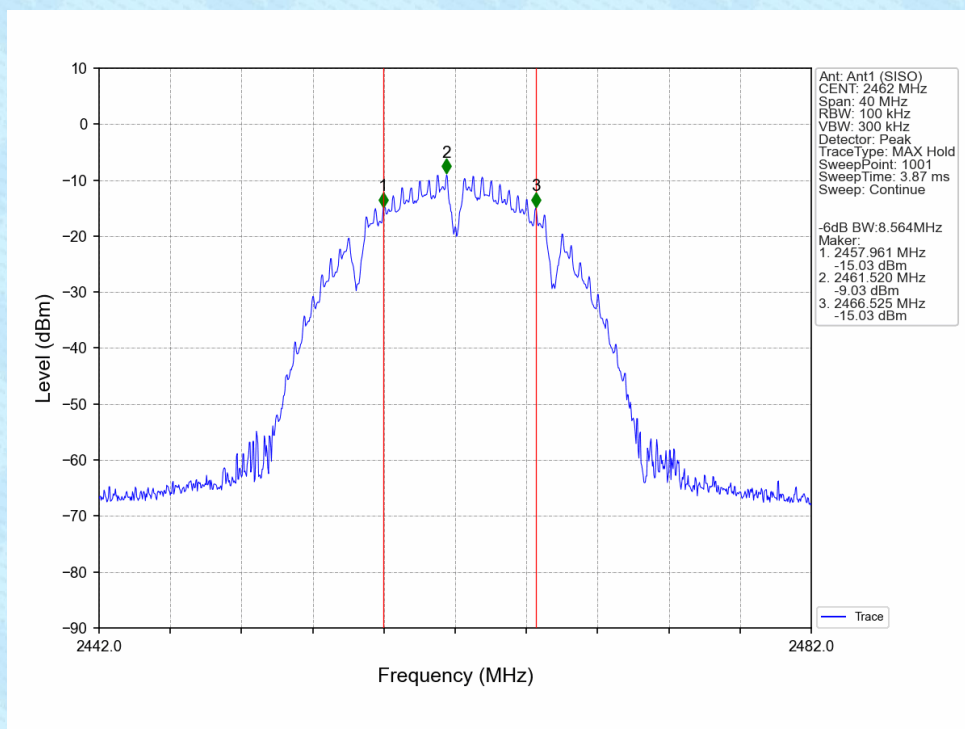
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



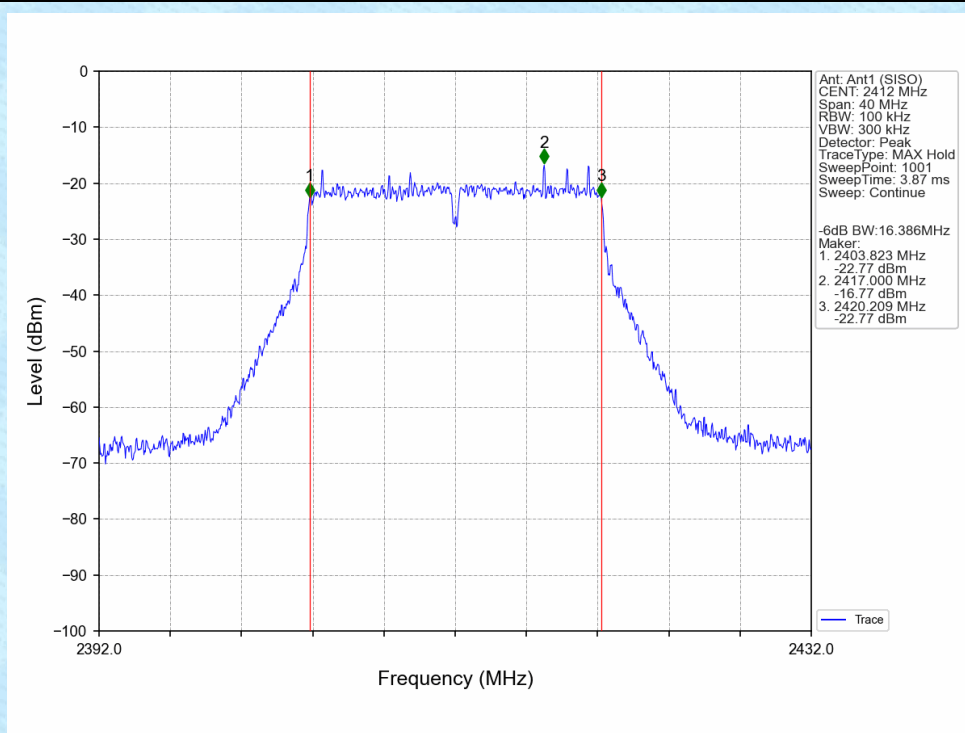
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



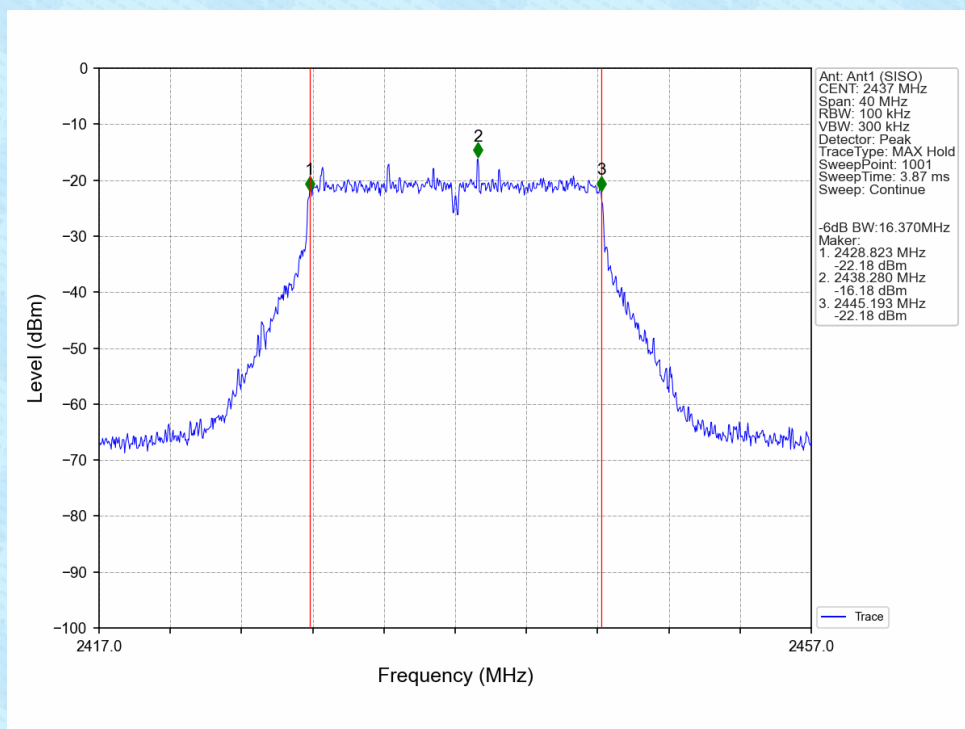
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



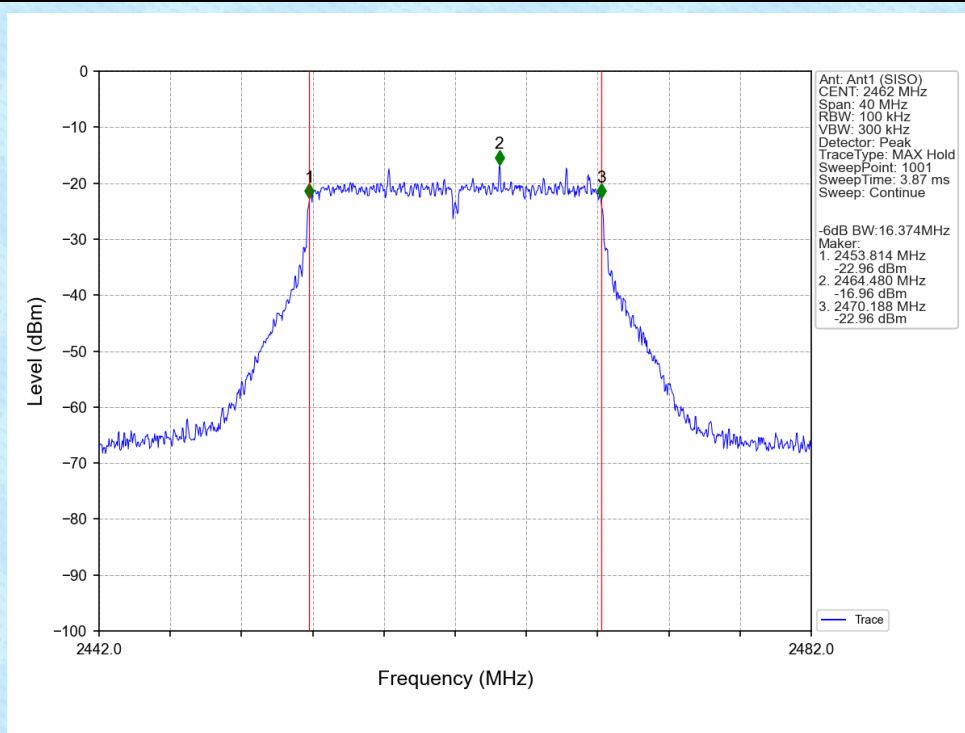
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



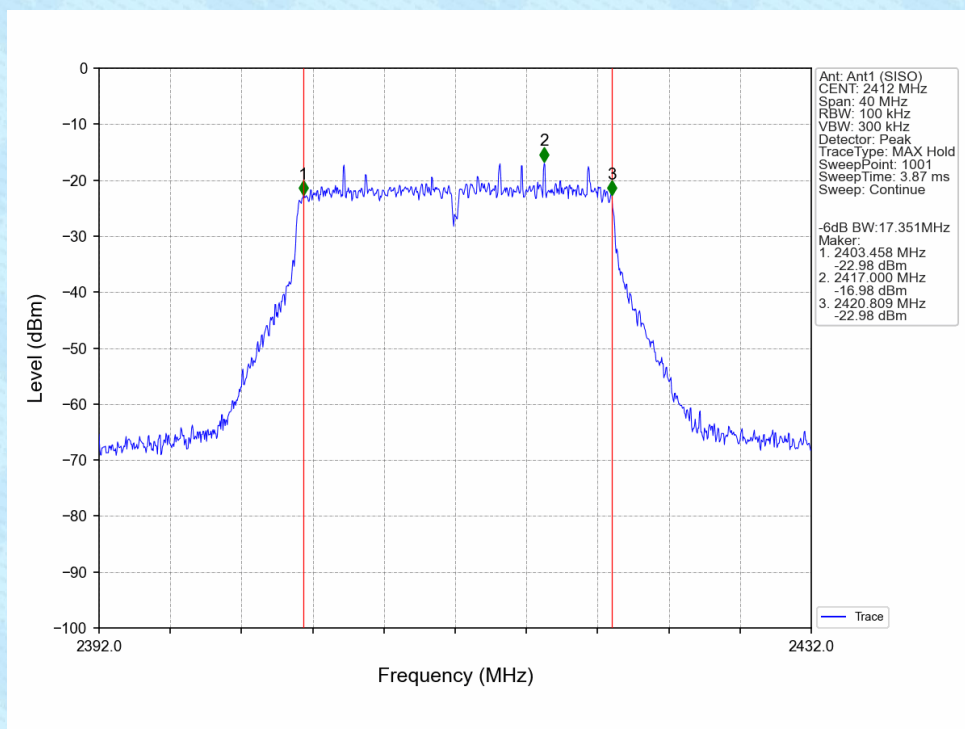
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



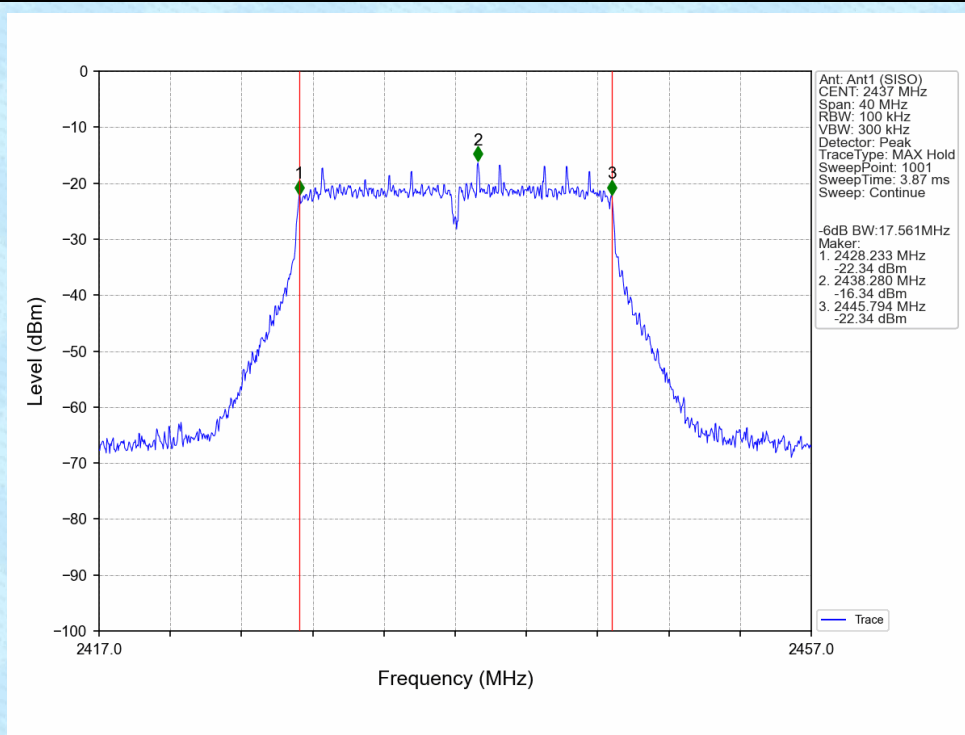
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



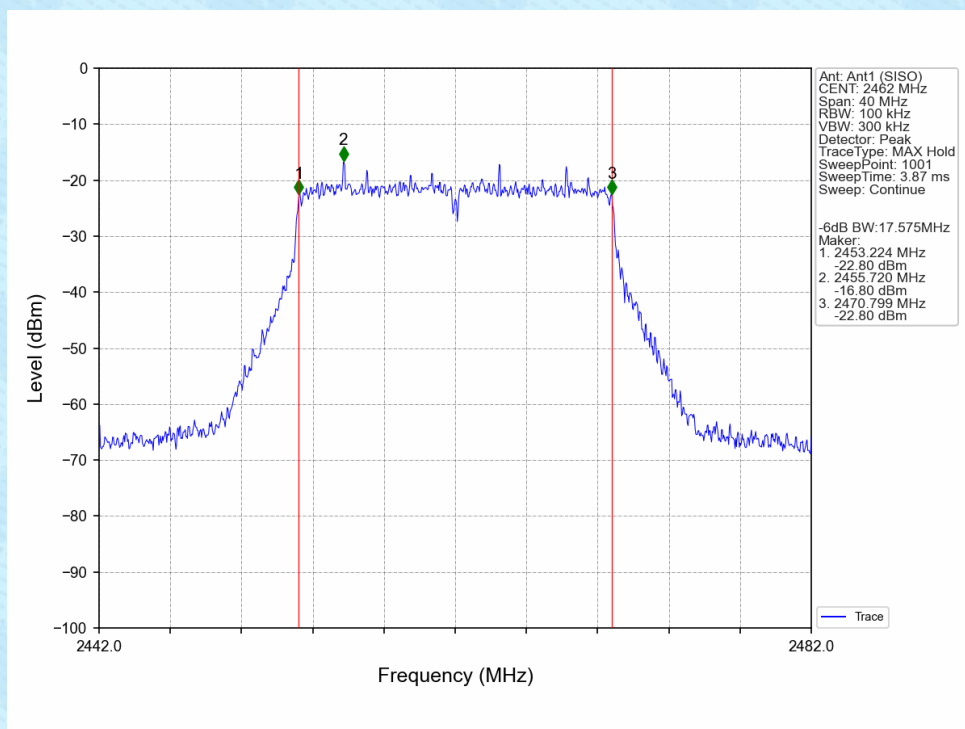
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



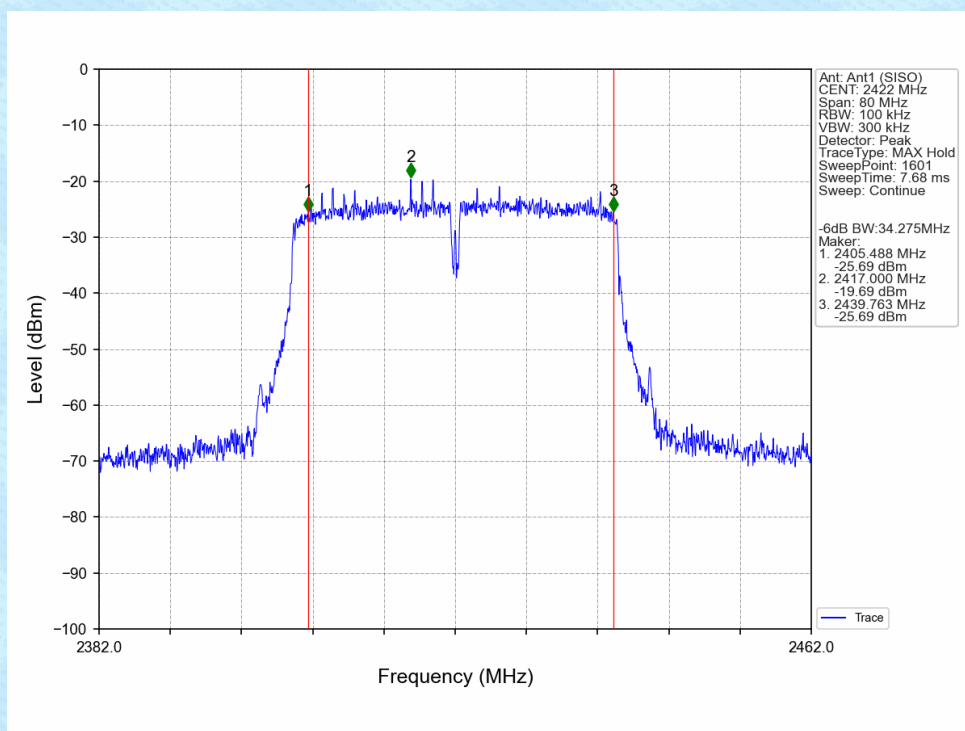
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



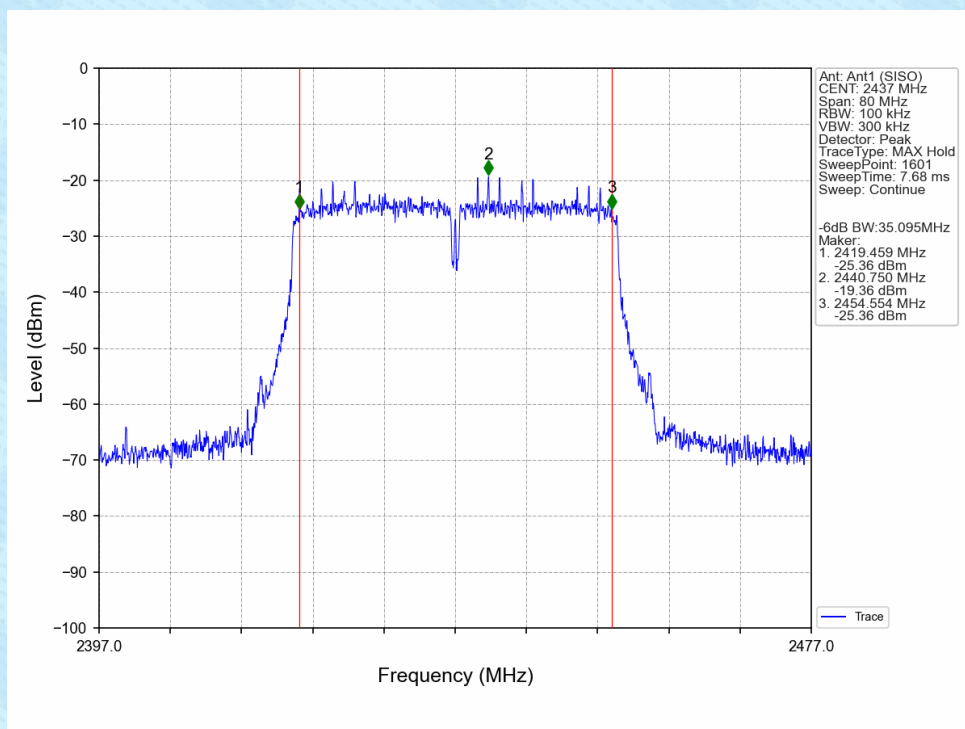
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



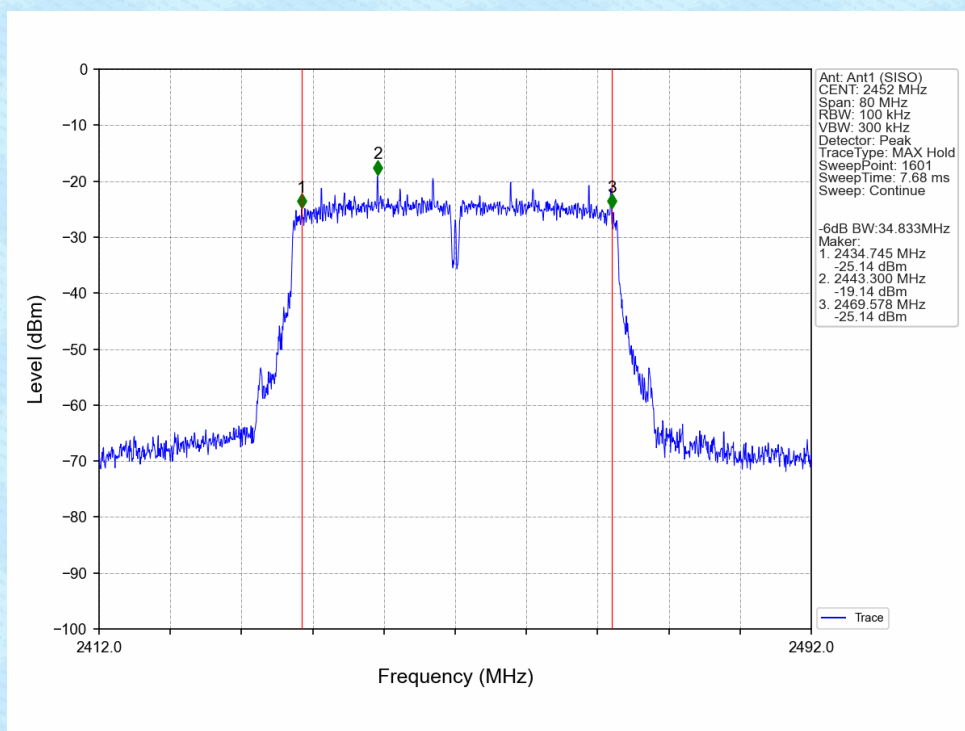
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

Test Mode	Antenna	Frequency [MHz]	Rate	Peak Power [dBm]	Conducted Limit[dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	1Mbps	2.17	≤30.00	1.54	3.71	≤36.00	PASS
11B	Ant1	2437	1Mbps	1.95	≤30.00	1.54	3.49	≤36.00	PASS
11B	Ant1	2462	1Mbps	1.95	≤30.00	1.54	3.49	≤36.00	PASS
11G	Ant1	2412	6Mbps	1.70	≤30.00	1.54	3.24	≤36.00	PASS
11G	Ant1	2437	6Mbps	2.15	≤30.00	1.54	3.69	≤36.00	PASS
11G	Ant1	2462	6Mbps	2.08	≤30.00	1.54	3.62	≤36.00	PASS
11N20SISO	Ant1	2412	MCS0	1.49	≤30.00	1.54	3.03	≤36.00	PASS
11N20SISO	Ant1	2437	MCS0	1.91	≤30.00	1.54	3.45	≤36.00	PASS
11N20SISO	Ant1	2462	MCS0	1.90	≤30.00	1.54	3.44	≤36.00	PASS
11N40SISO	Ant1	2422	MCS0	1.48	≤30.00	1.54	3.02	≤36.00	PASS
11N40SISO	Ant1	2437	MCS0	1.78	≤30.00	1.54	3.32	≤36.00	PASS
11N40SISO	Ant1	2452	MCS0	1.69	≤30.00	1.54	3.23	≤36.00	PASS

4. Maximum Power Spectral Density

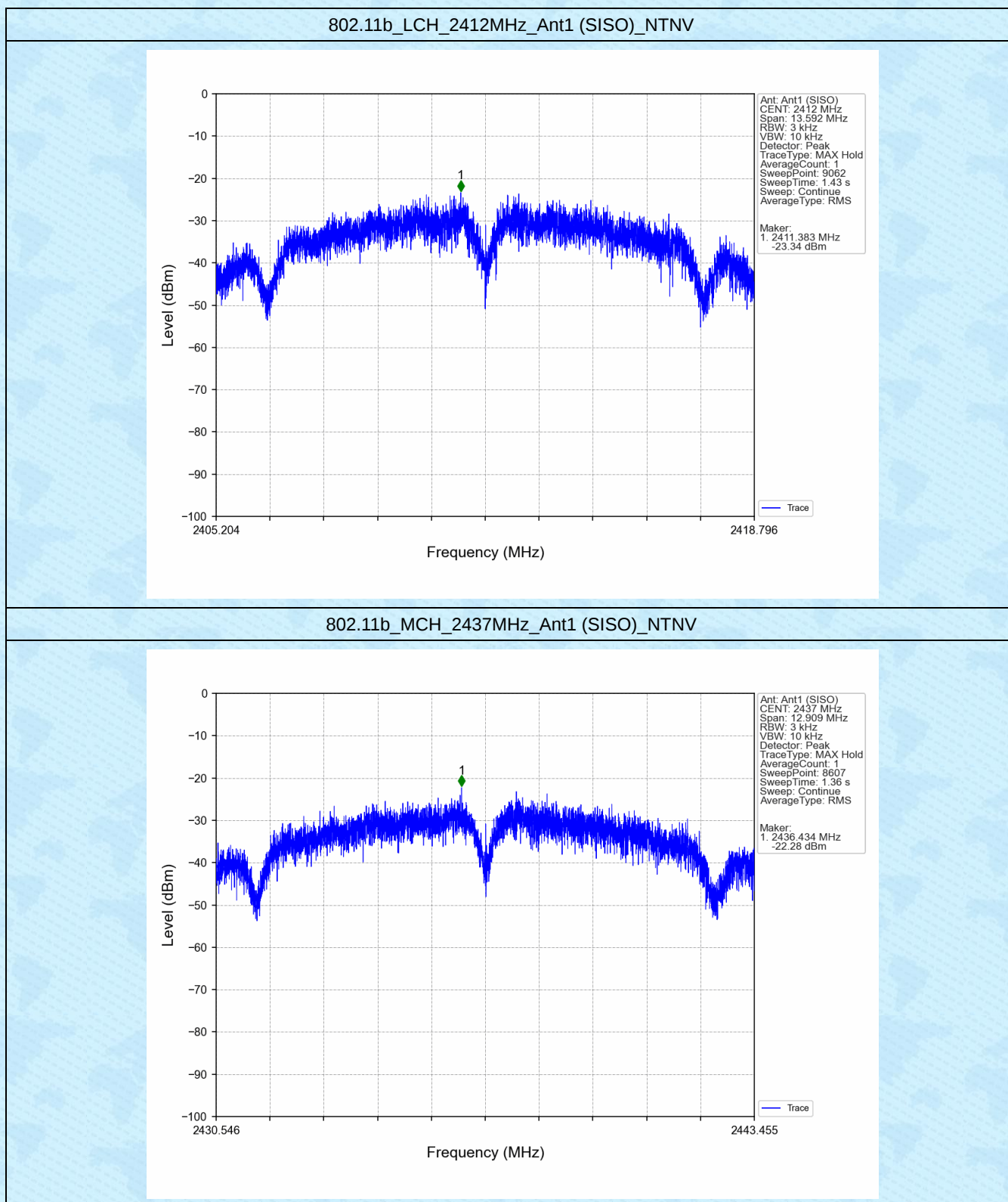
4.1 Test Result

4.1.1 PSD

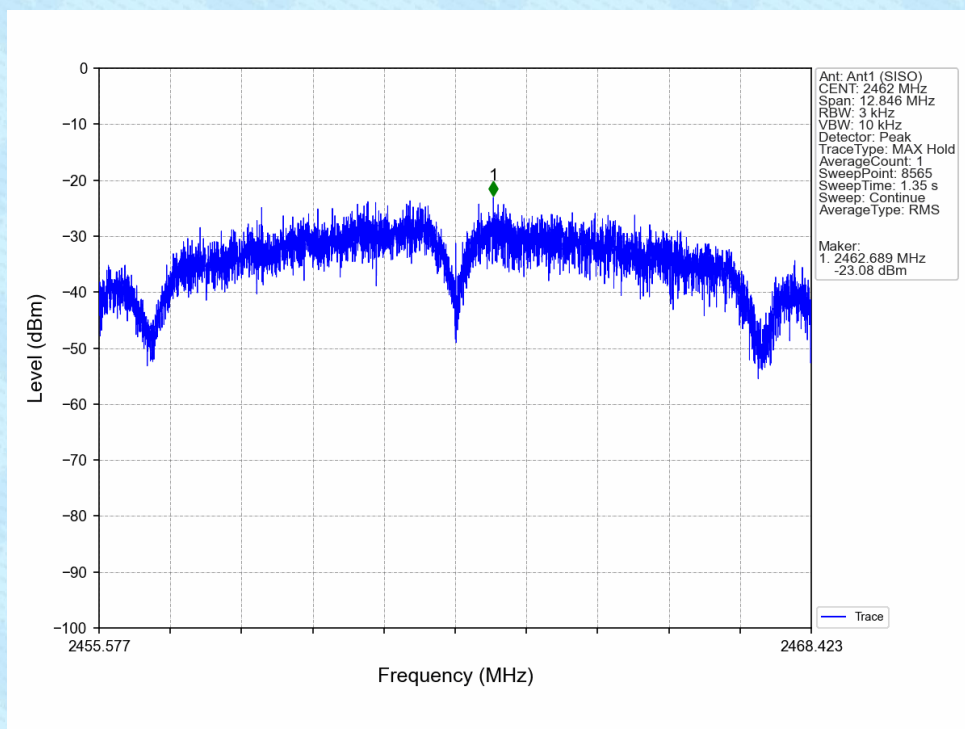
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-23.34	<=8	Pass
		2437	-22.28	<=8	Pass
		2462	-23.08	<=8	Pass
802.11g	SISO	2412	-26.86	<=8	Pass
		2437	-27.49	<=8	Pass
		2462	-28.17	<=8	Pass
802.11n (HT20)	SISO	2412	-26.86	<=8	Pass
		2437	-26.94	<=8	Pass
		2462	-28.59	<=8	Pass
802.11n (HT40)	SISO	2422	-30.96	<=8	Pass
		2437	-30.94	<=8	Pass
		2452	-30.02	<=8	Pass
Note1: Antenna Gain: Ant1: 1.54dBi;					

4.2 Test Graph

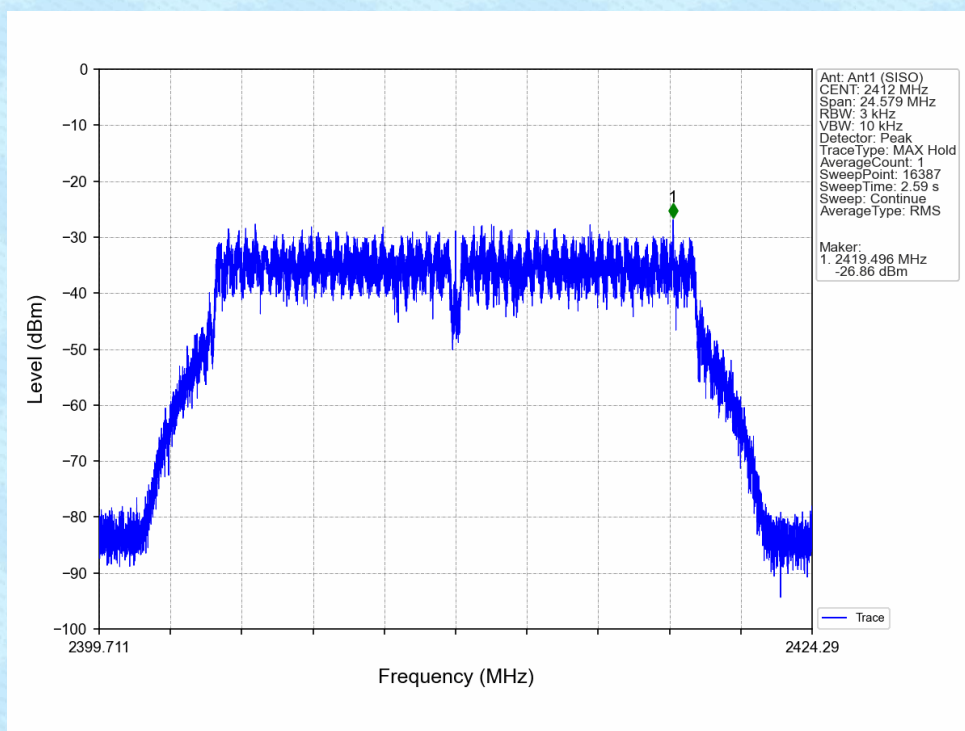
4.2.1 PSD



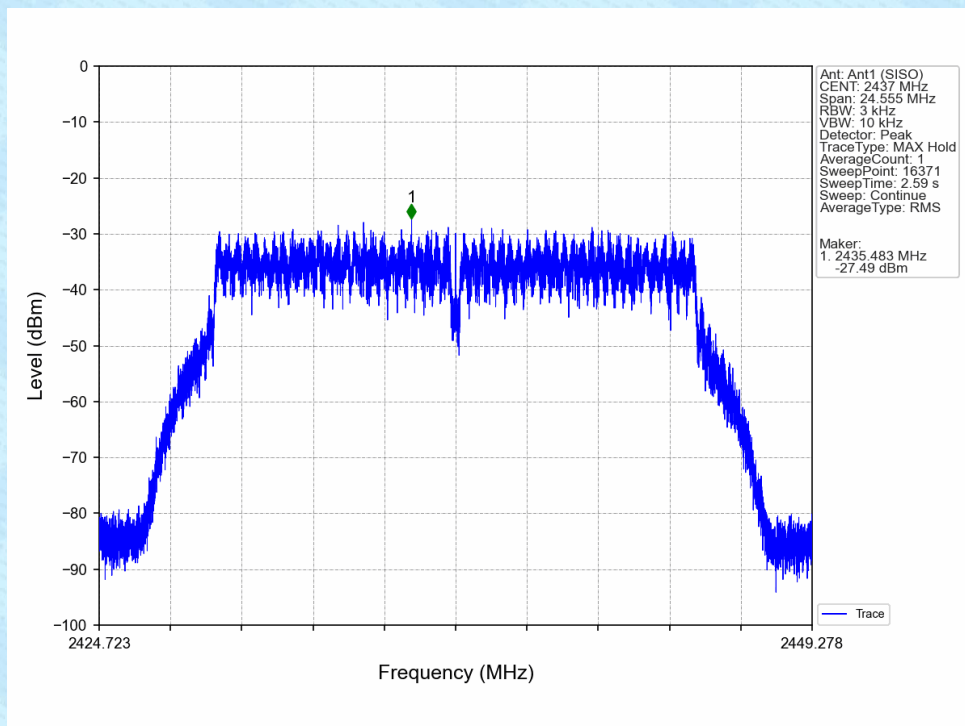
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



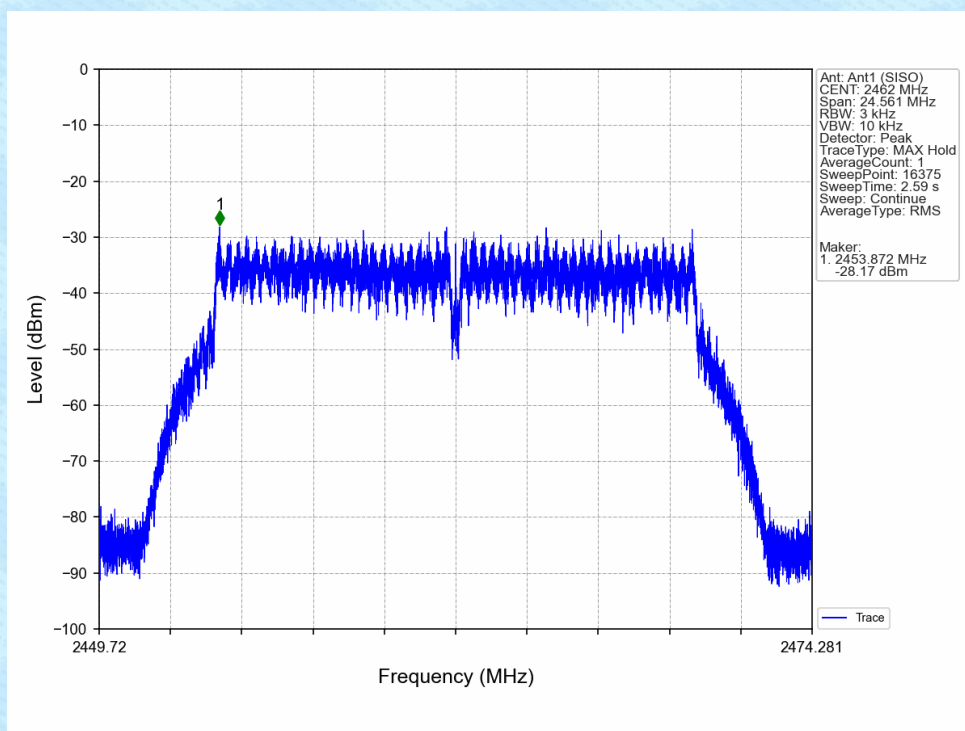
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



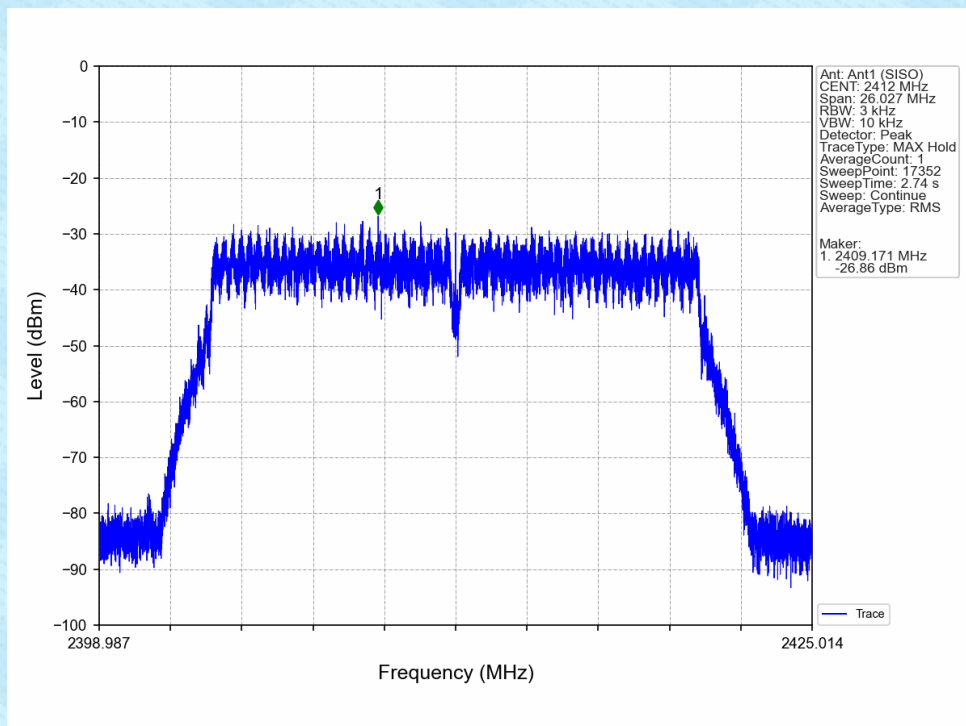
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



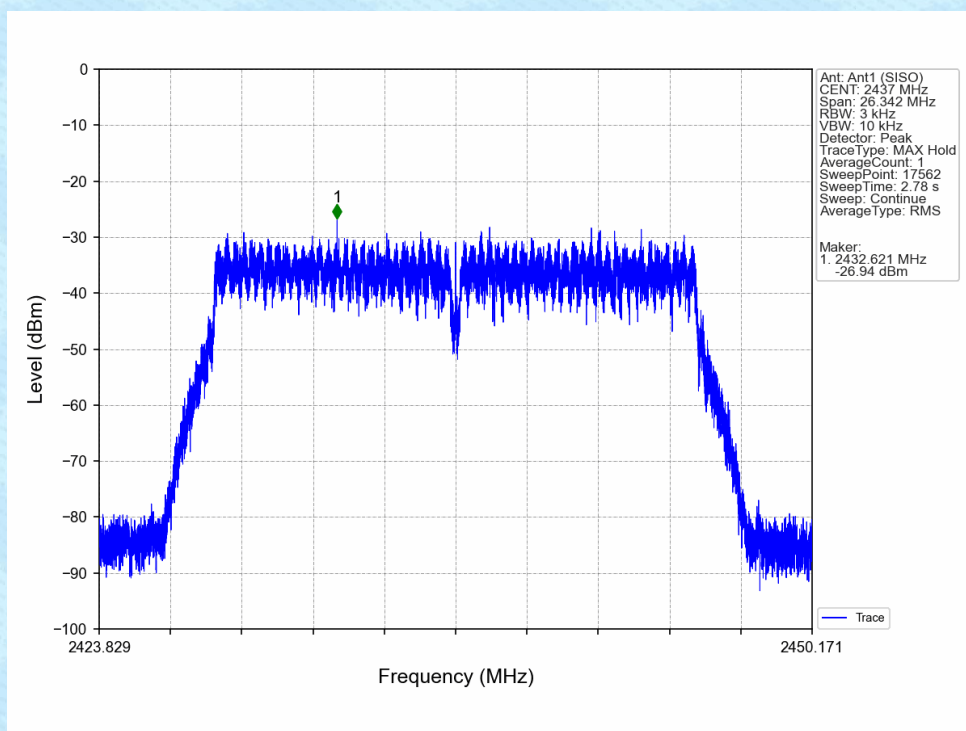
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



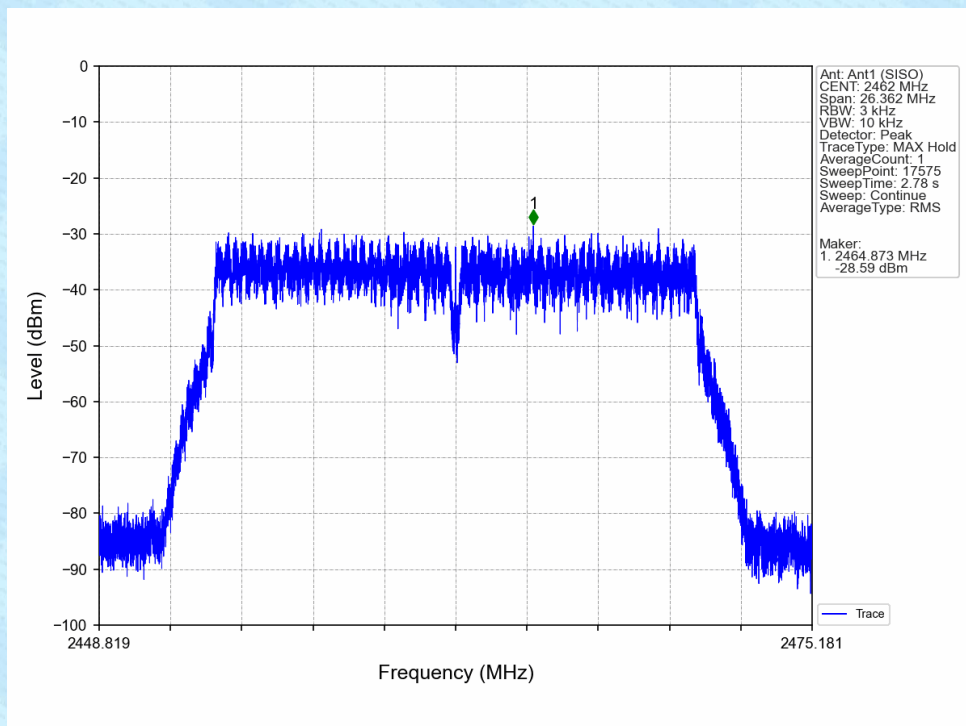
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



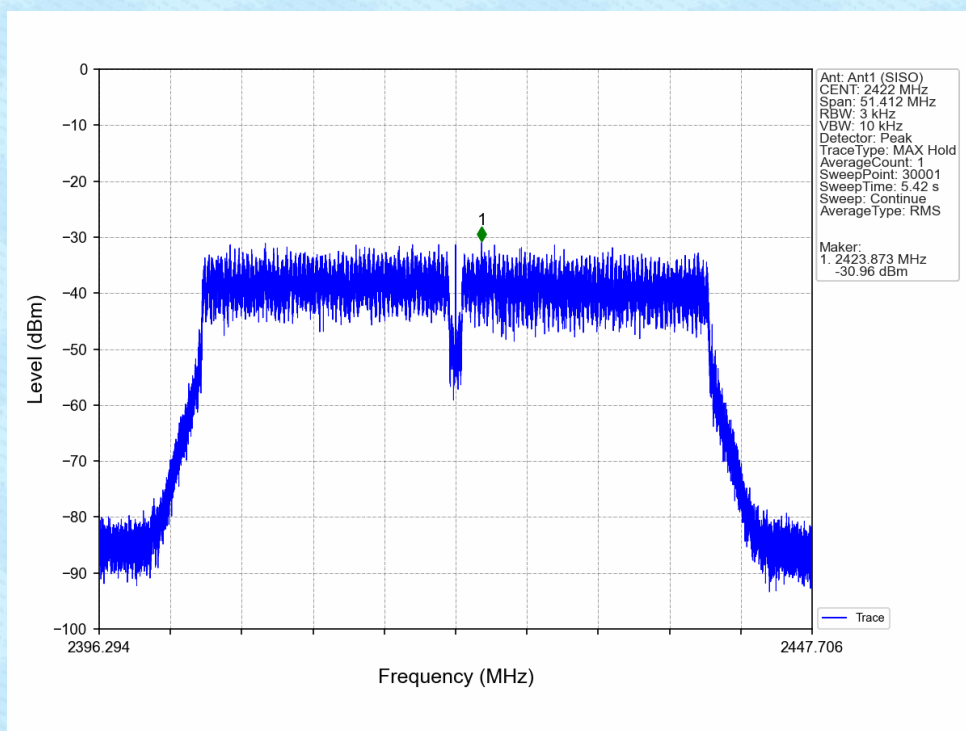
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



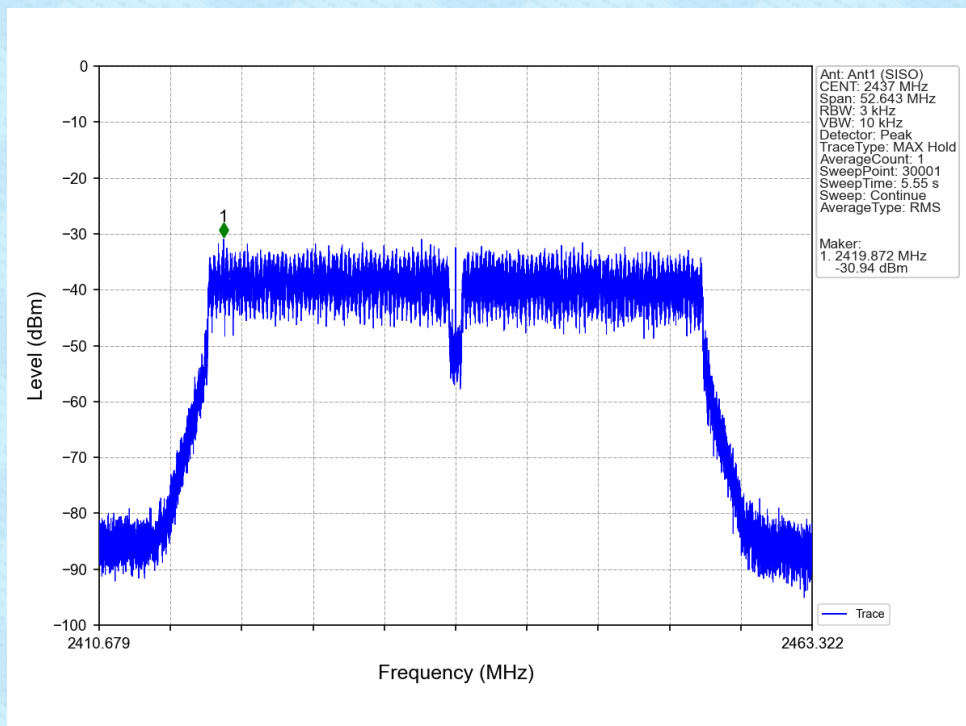
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



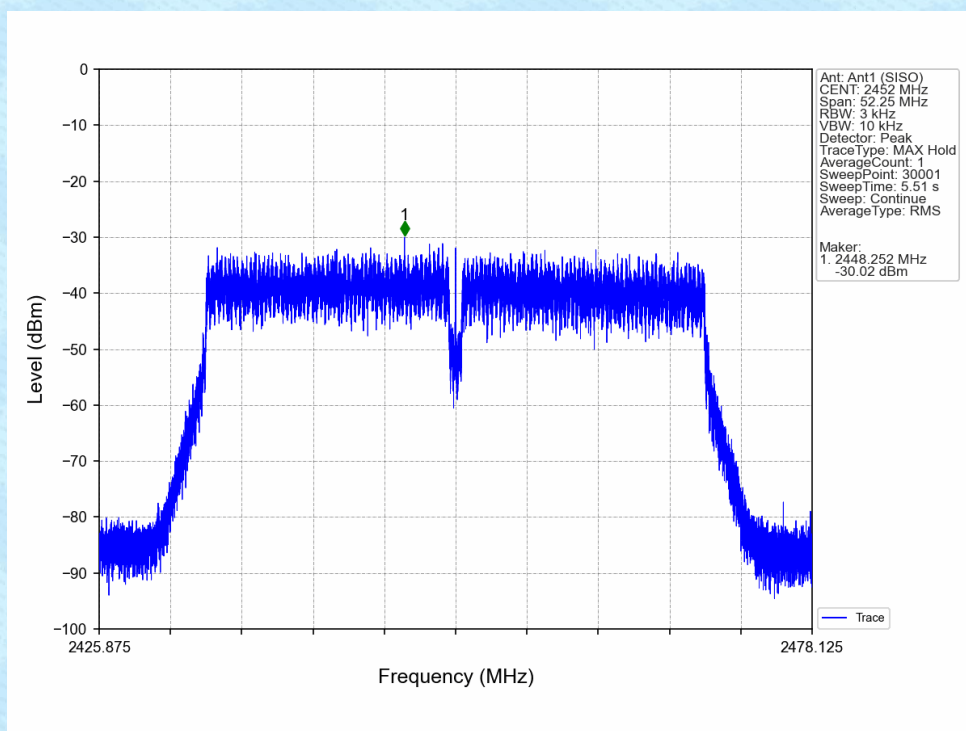
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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	-9.11
		2437	1	-9.11
		2462	1	-9.19
802.11g	SISO	2412	1	-16.81
		2437	1	-16.21
		2462	1	-16.91
802.11n (HT20)	SISO	2412	1	-16.83
		2437	1	-16.64
		2462	1	-17.48
802.11n (HT40)	SISO	2422	1	-19.70
		2437	1	-19.44
		2452	1	-19.54

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

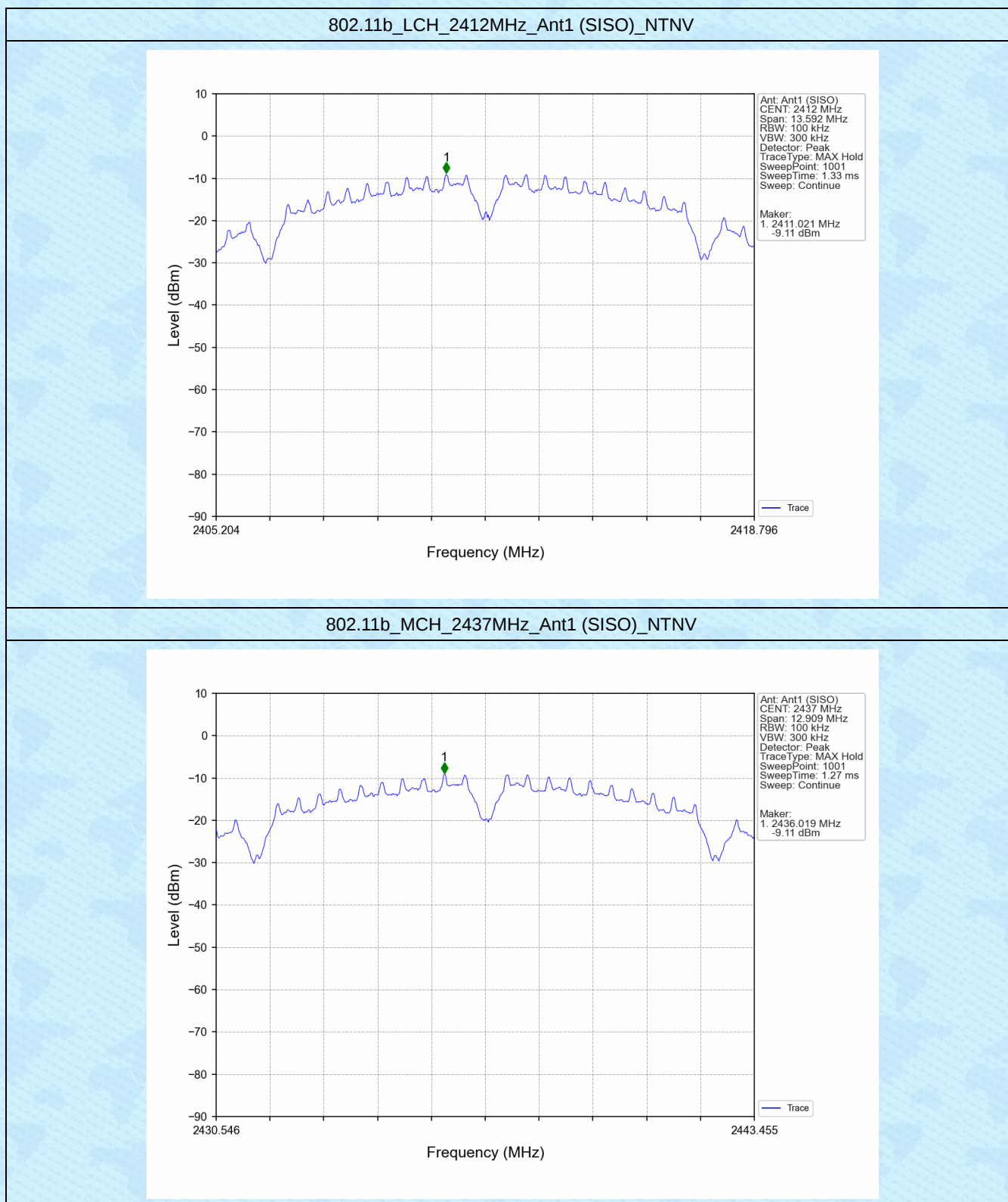
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-9.11	-29.11	Pass
		2437	1	-9.11	-29.11	Pass
		2462	1	-9.11	-29.11	Pass
802.11g	SISO	2412	1	-16.21	-36.21	Pass
		2437	1	-16.21	-36.21	Pass
		2462	1	-16.21	-36.21	Pass
802.11n (HT20)	SISO	2412	1	-16.64	-36.64	Pass
		2437	1	-16.64	-36.64	Pass
		2462	1	-16.64	-36.64	Pass
802.11n (HT40)	SISO	2422	1	-19.44	-39.44	Pass
		2437	1	-19.44	-39.44	Pass
		2452	1	-19.44	-39.44	Pass

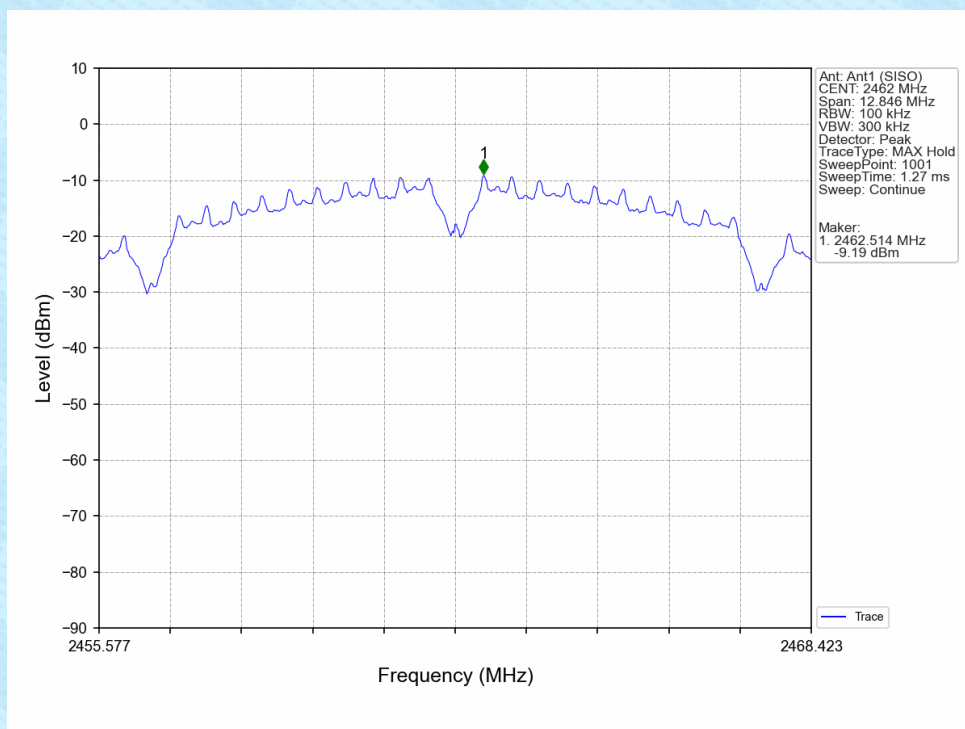
Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

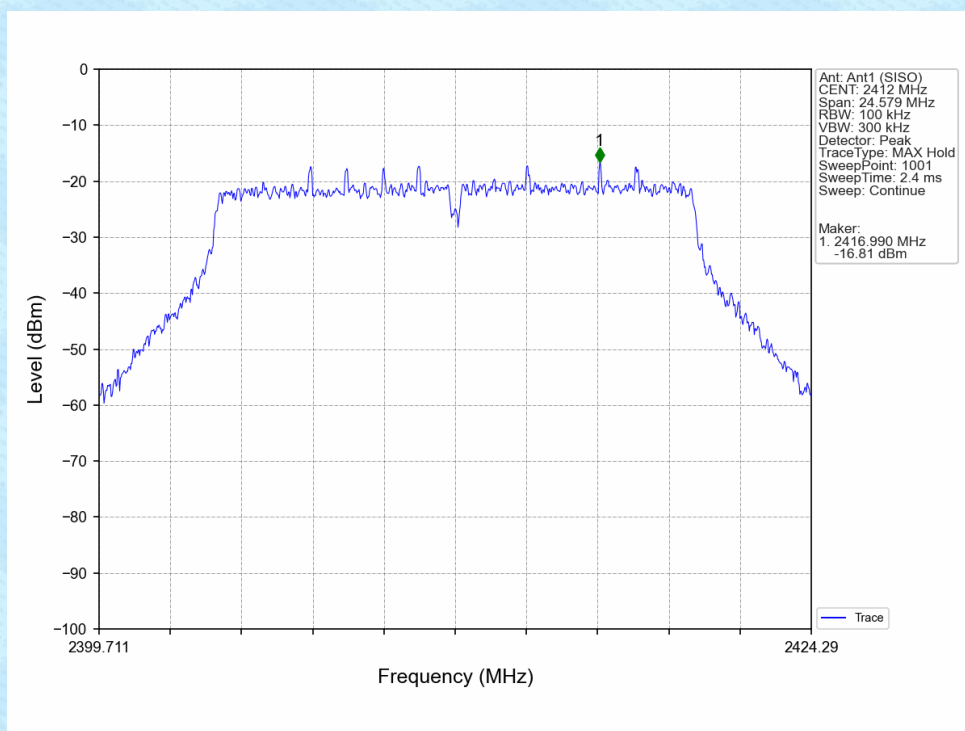
5.2.1 Ref



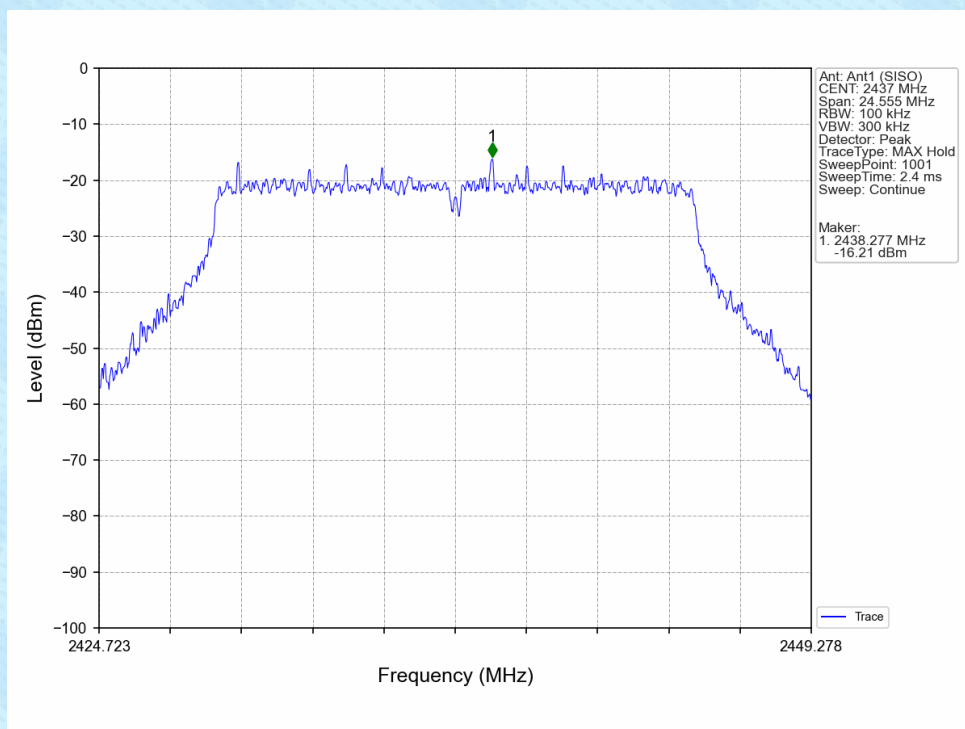
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



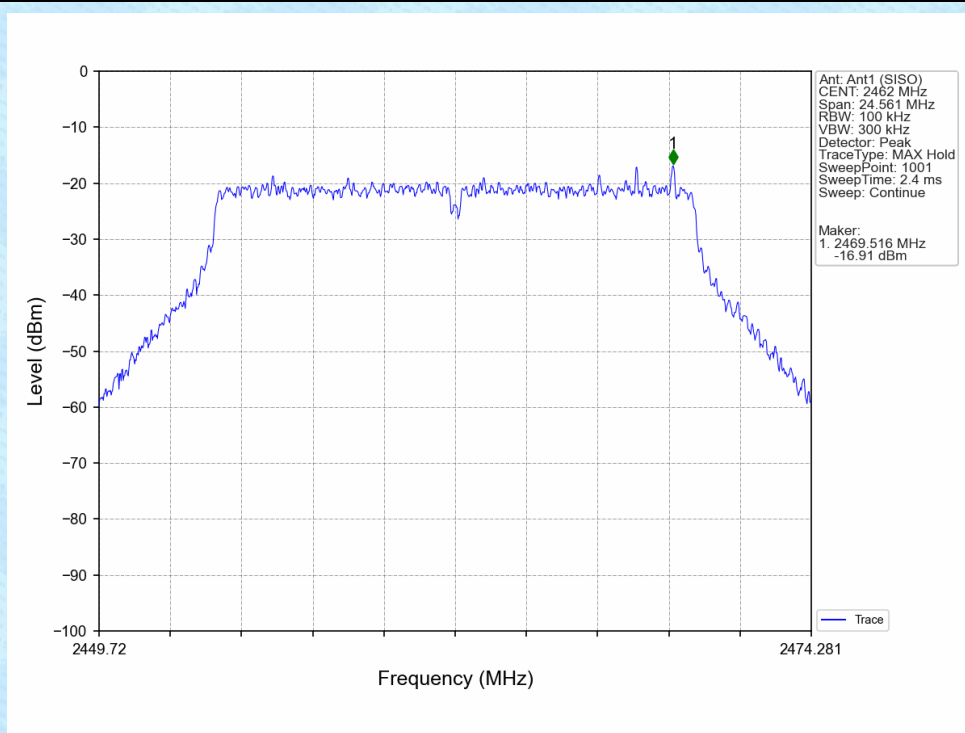
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



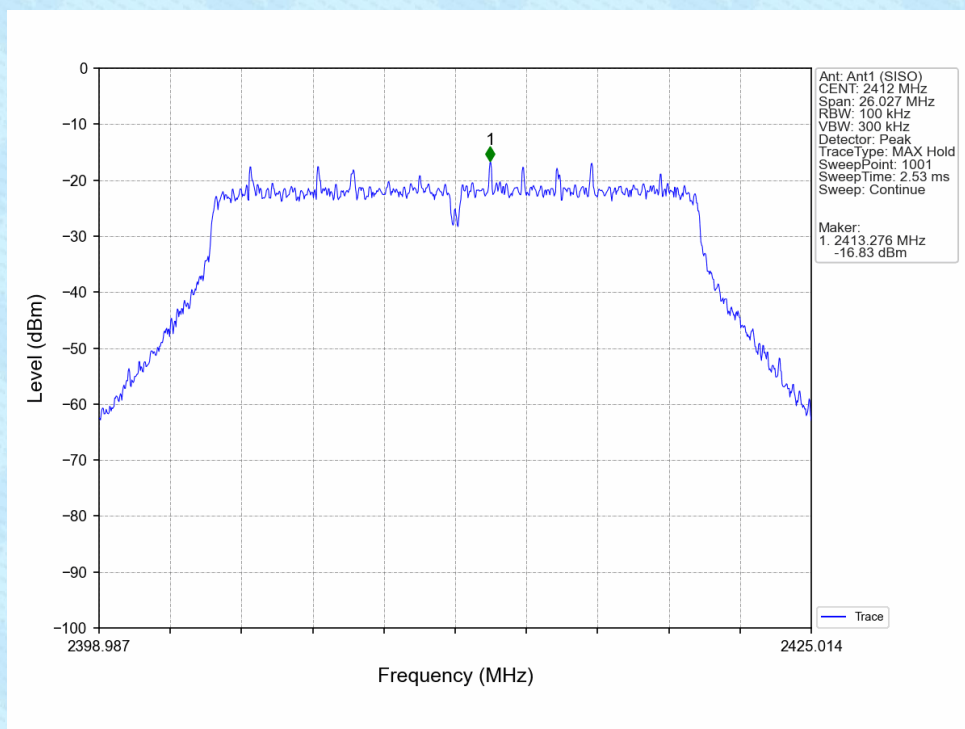
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



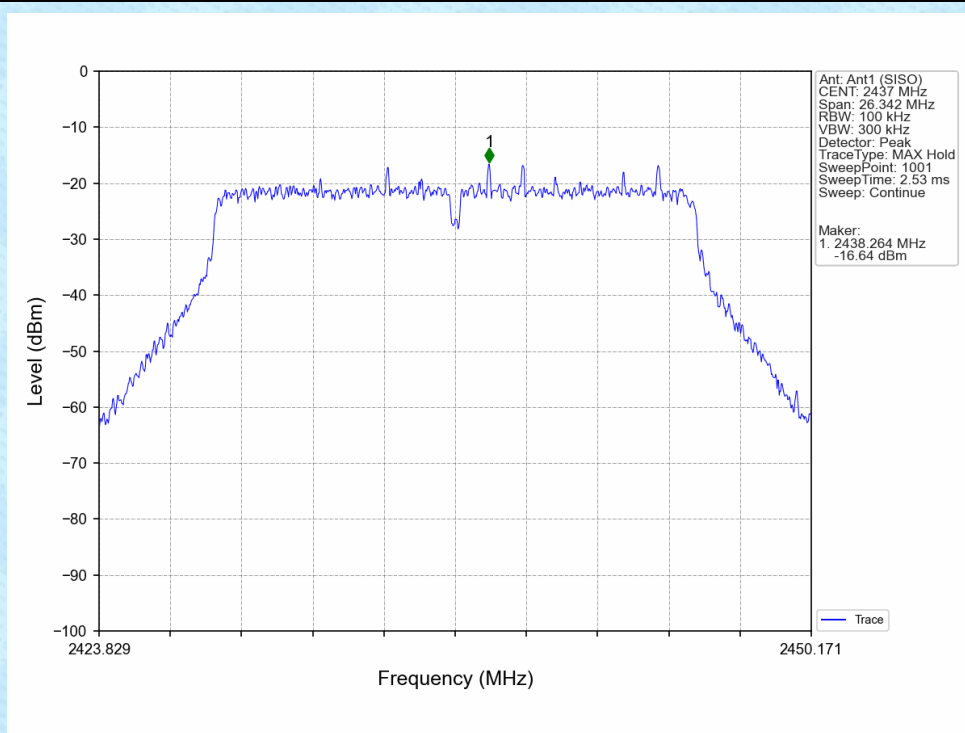
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



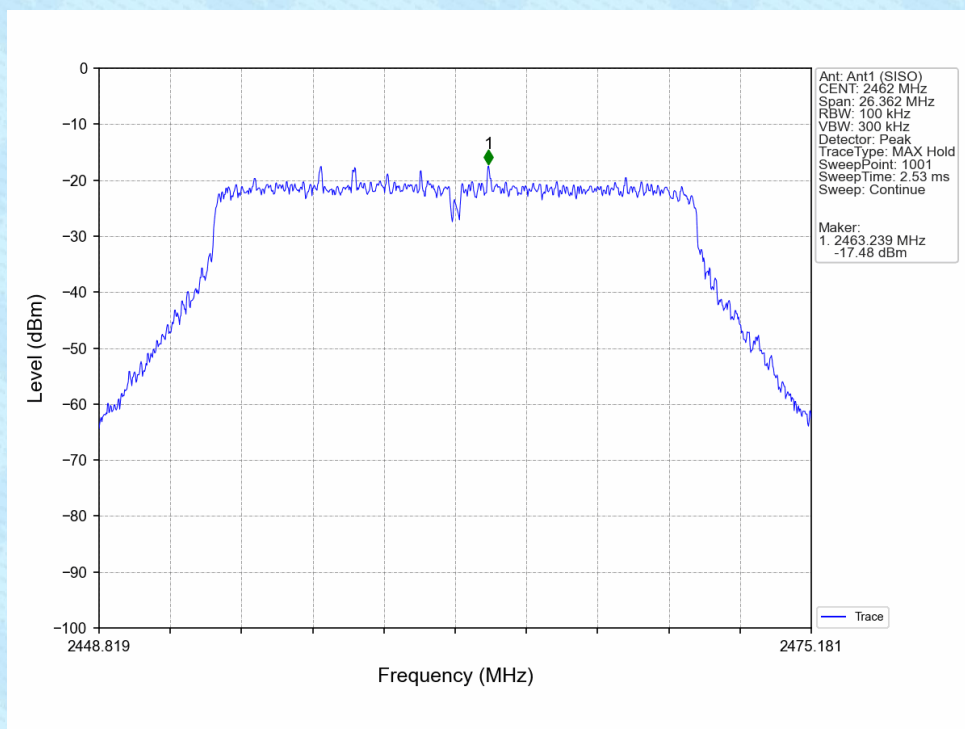
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



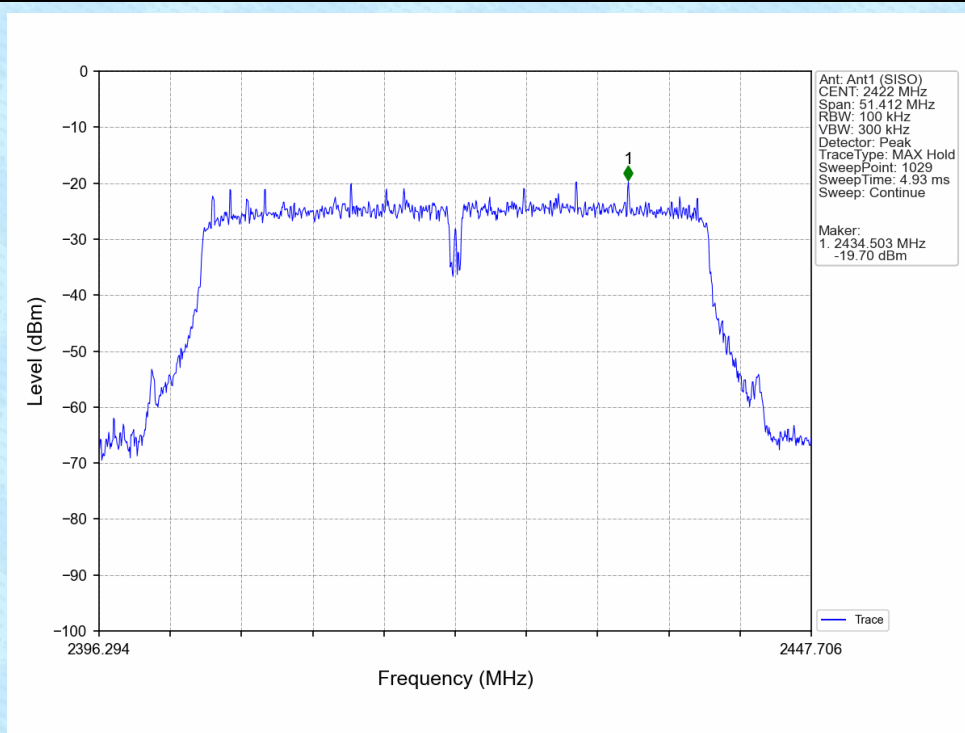
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



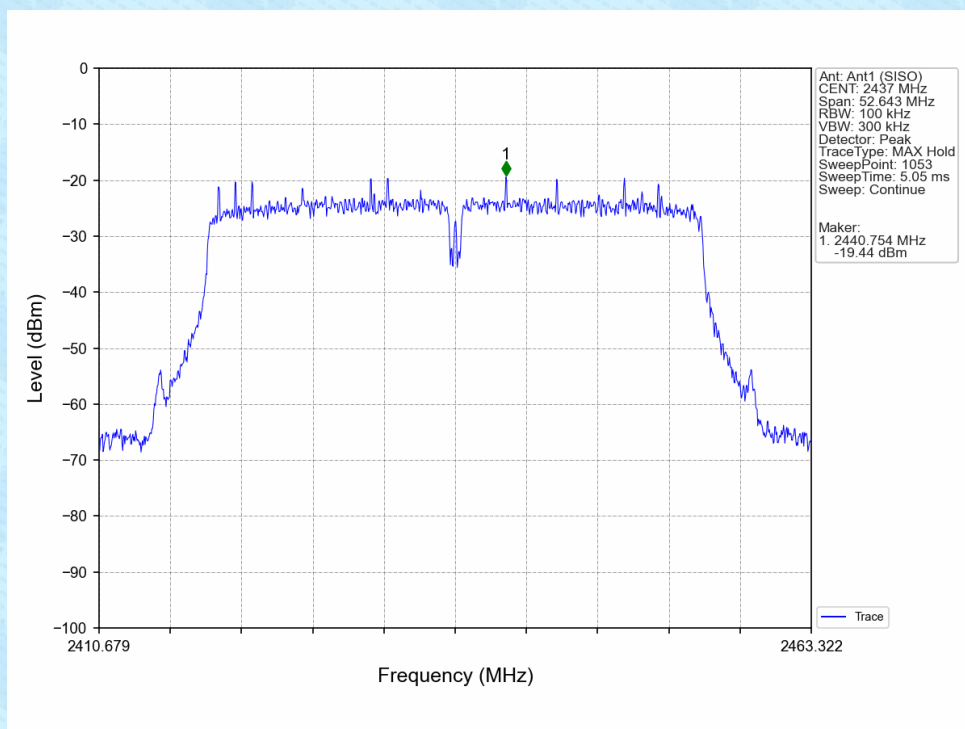
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



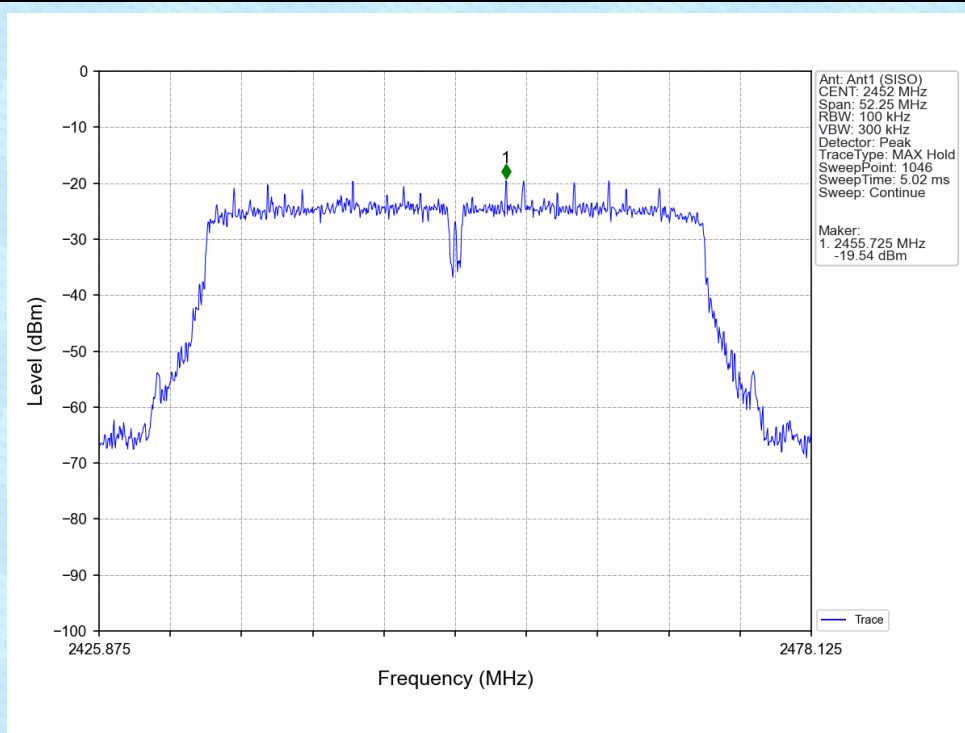
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

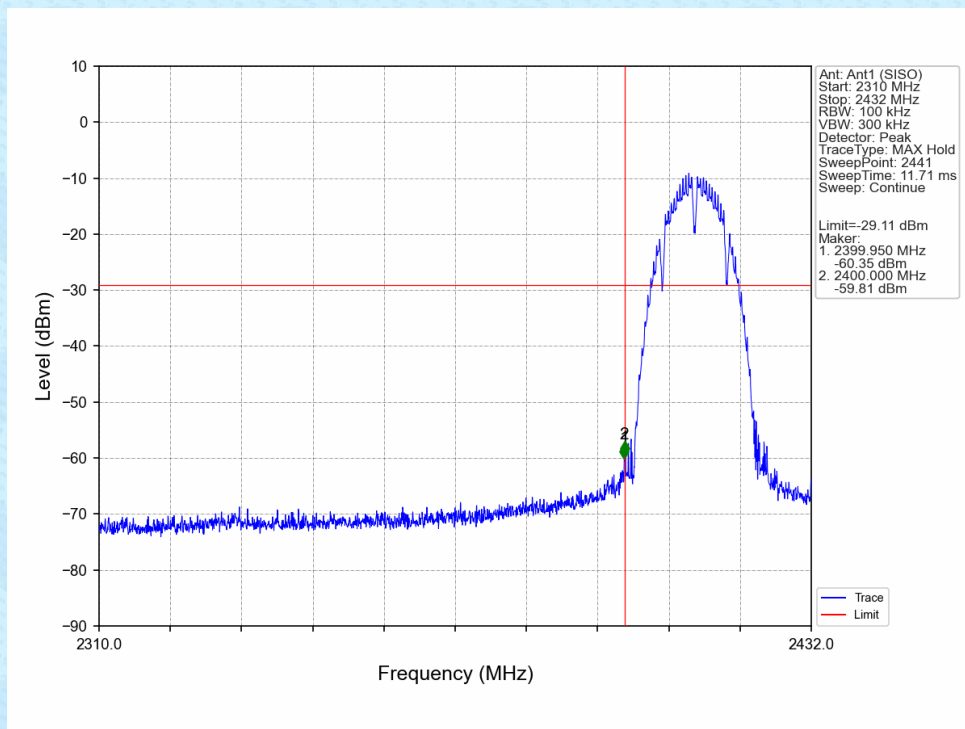


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

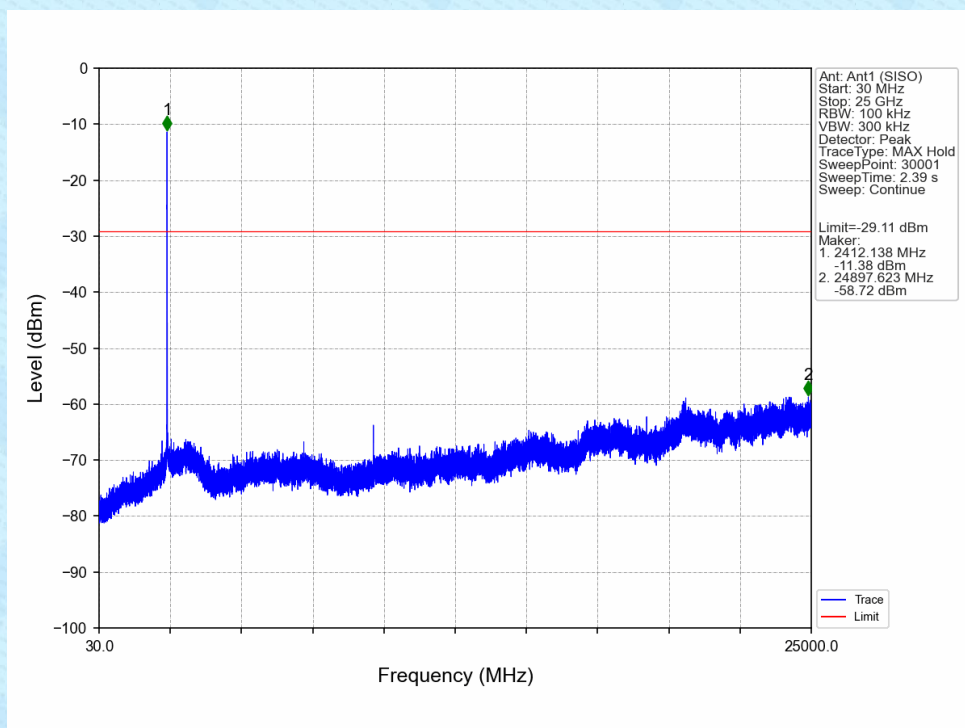


5.2.2 CSE

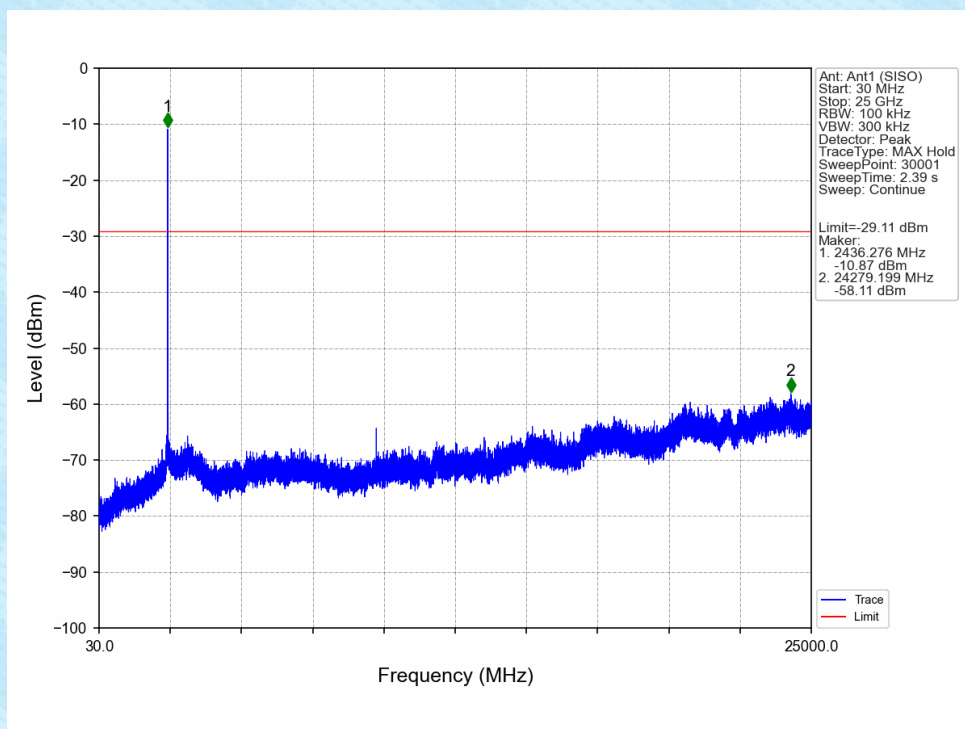
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



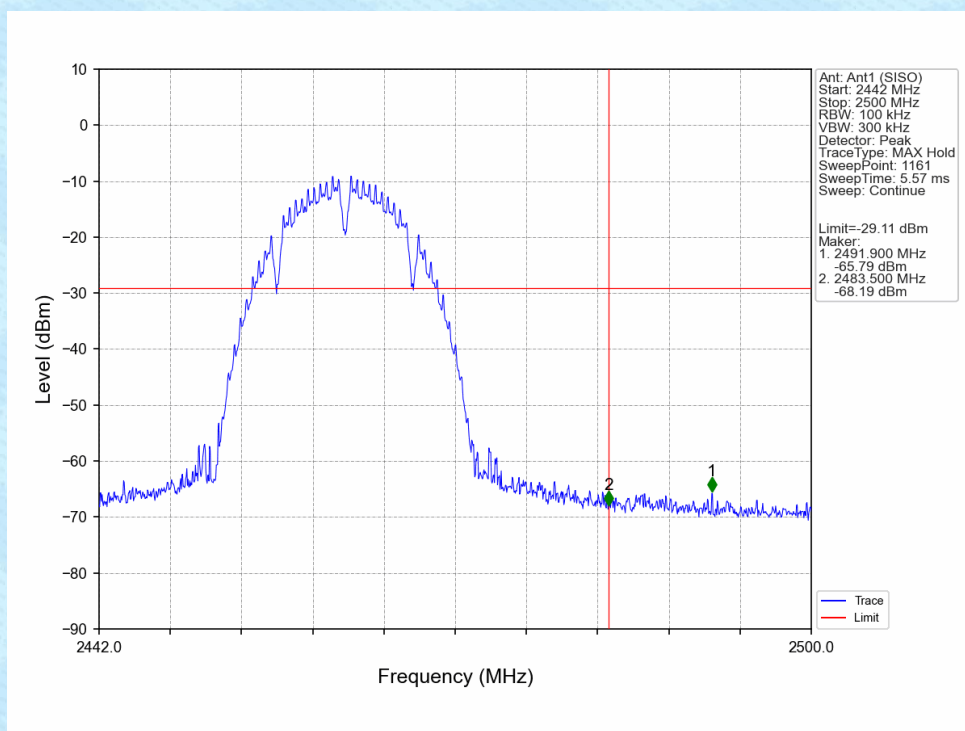
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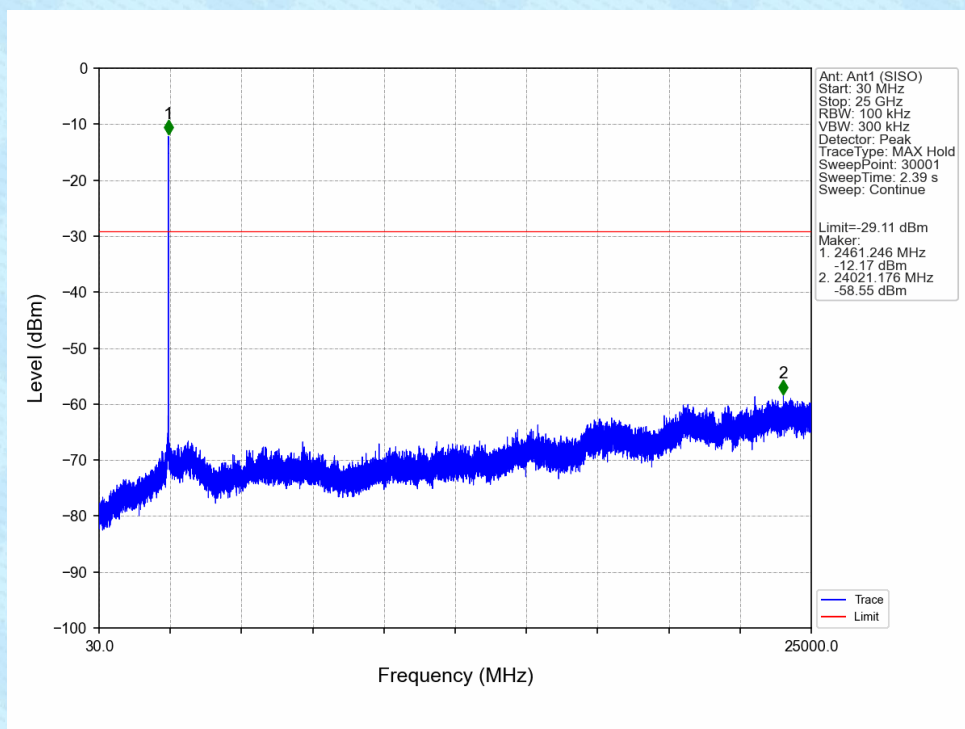
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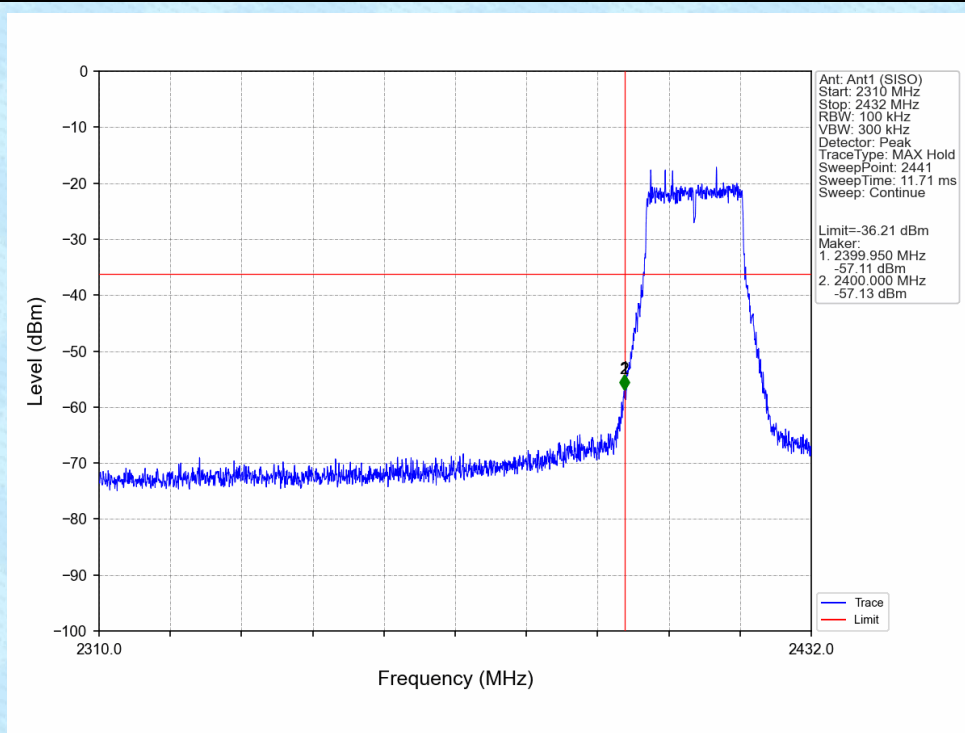
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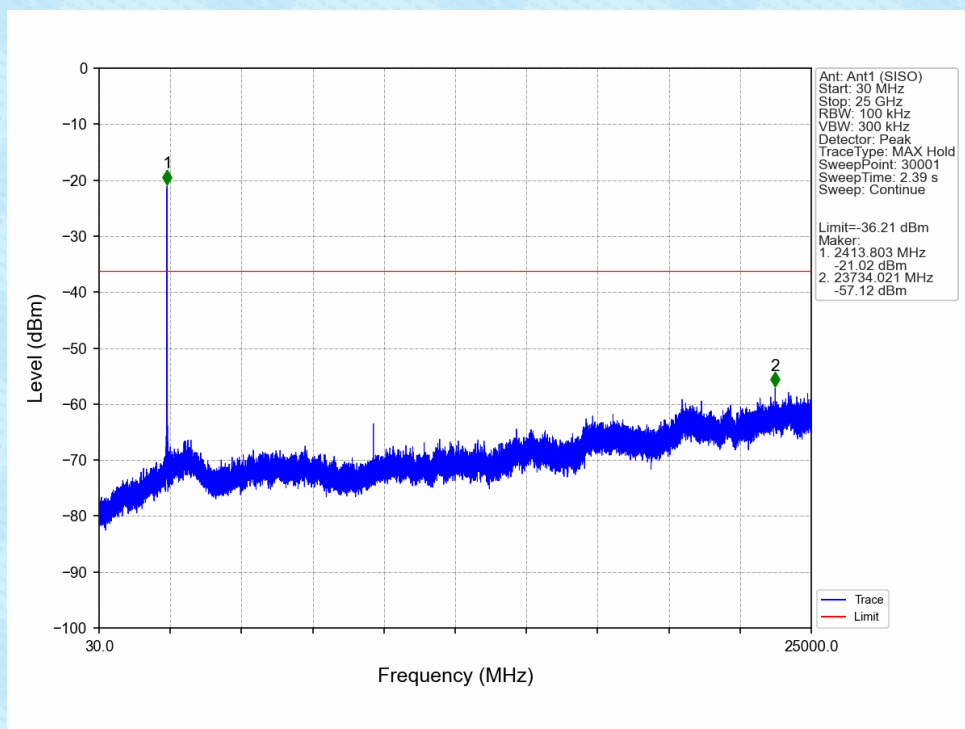
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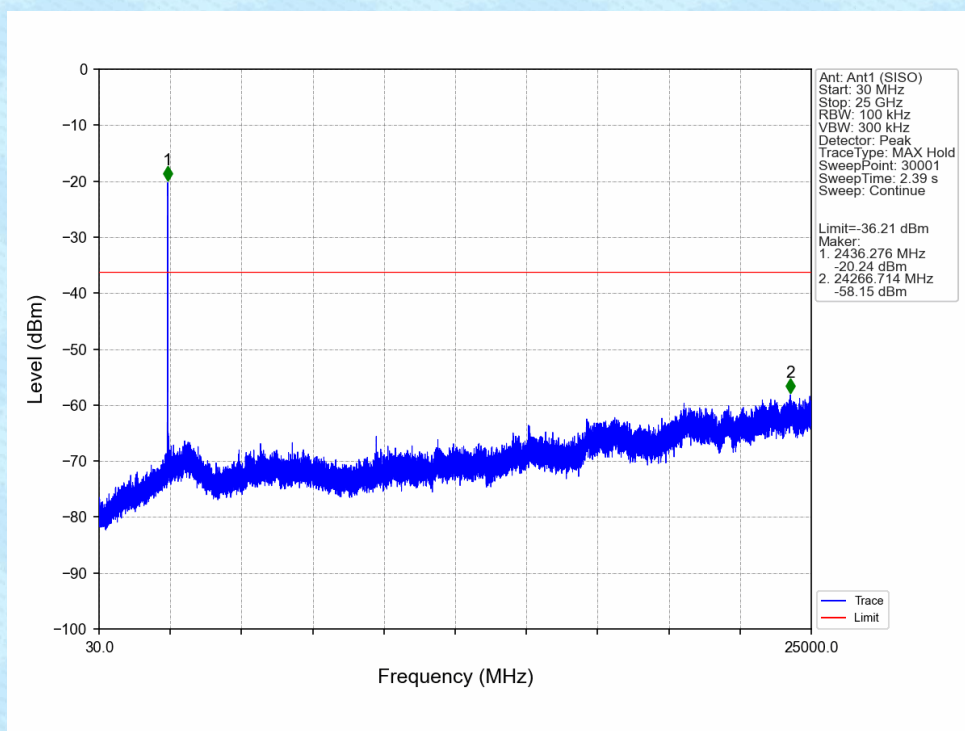
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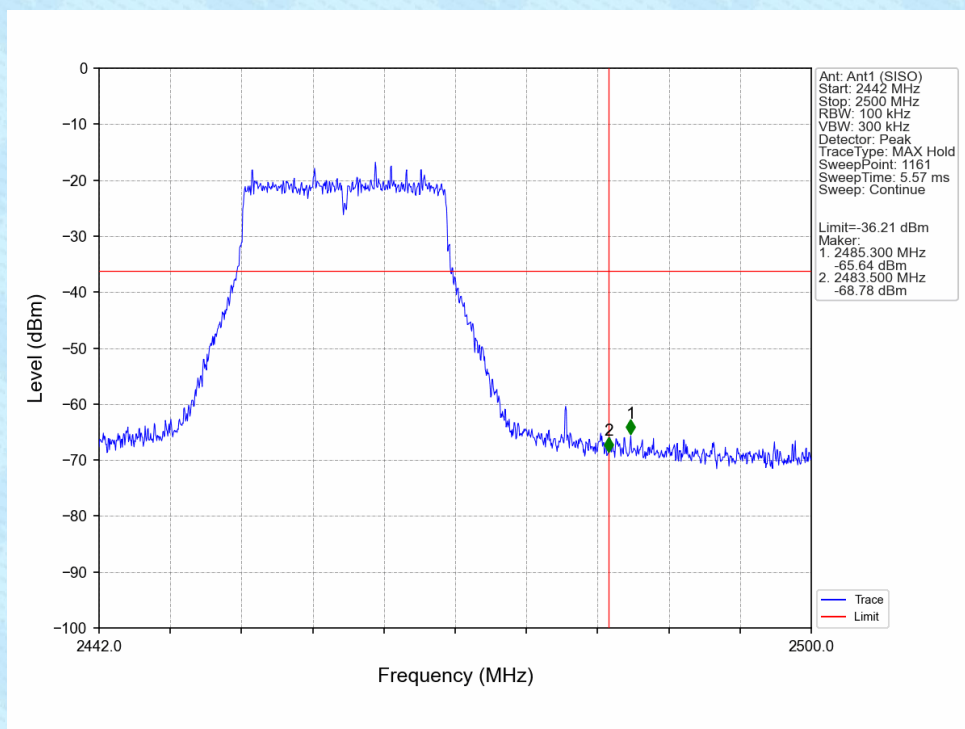
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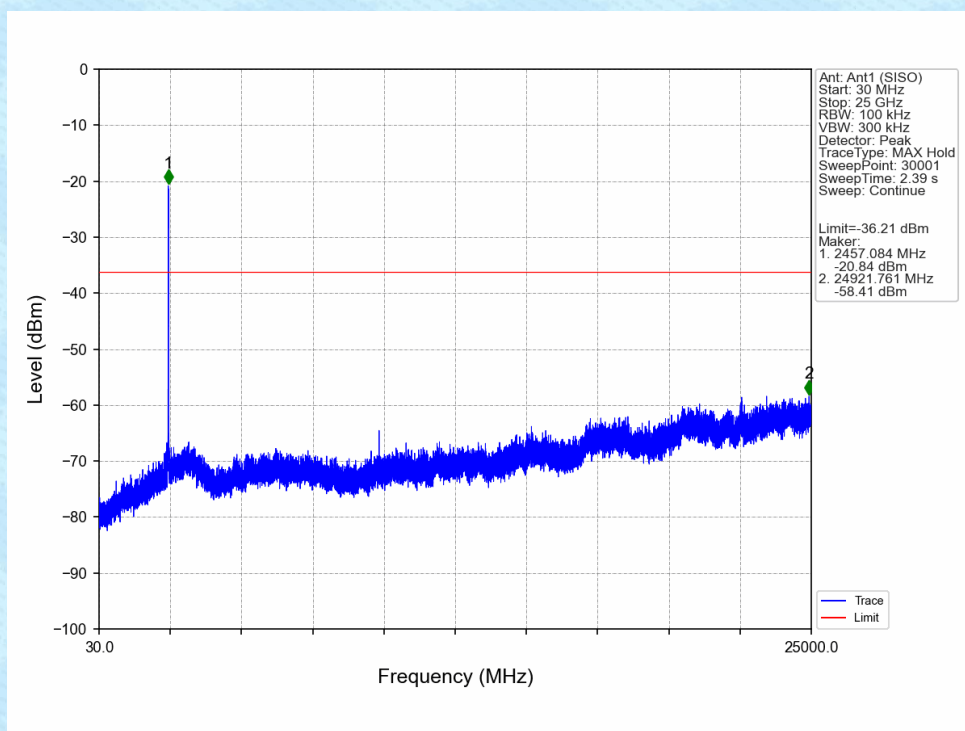
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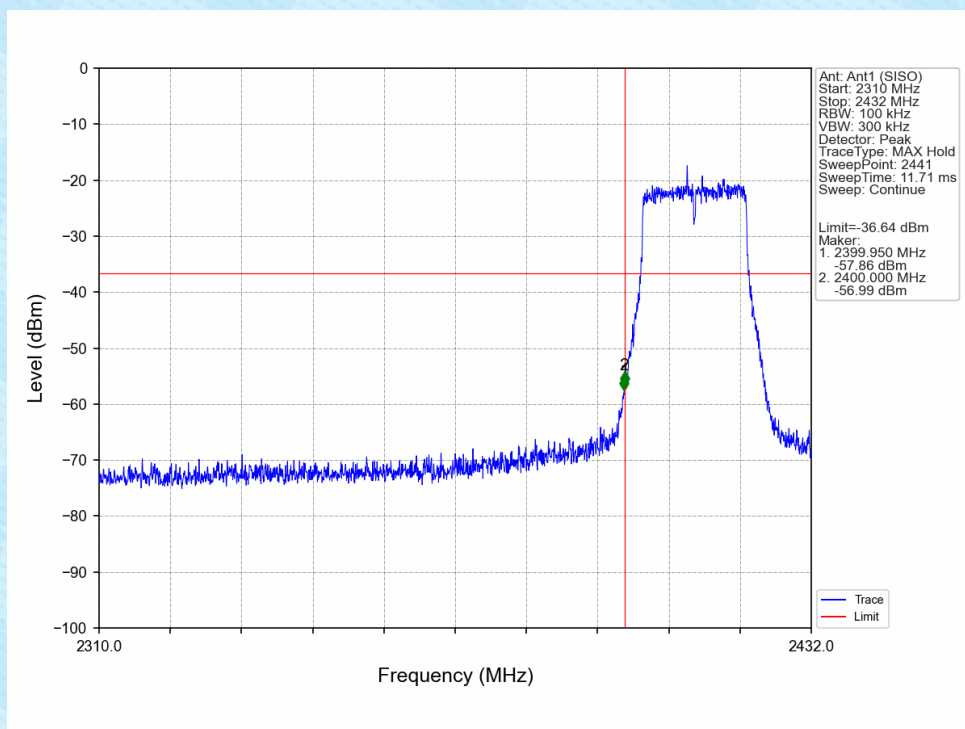
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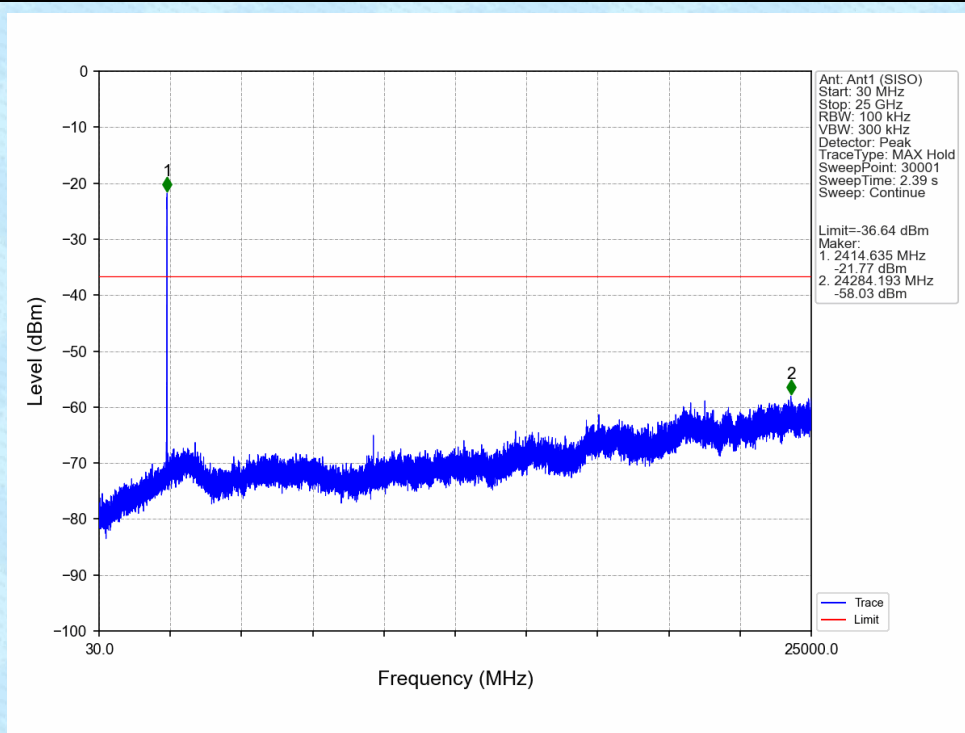
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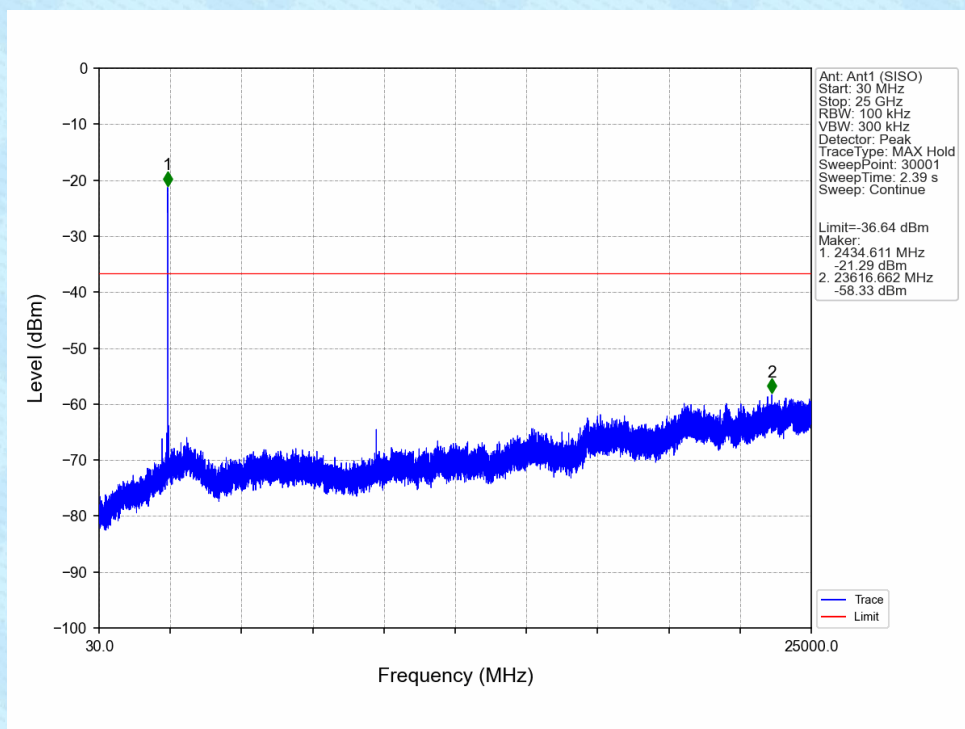
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



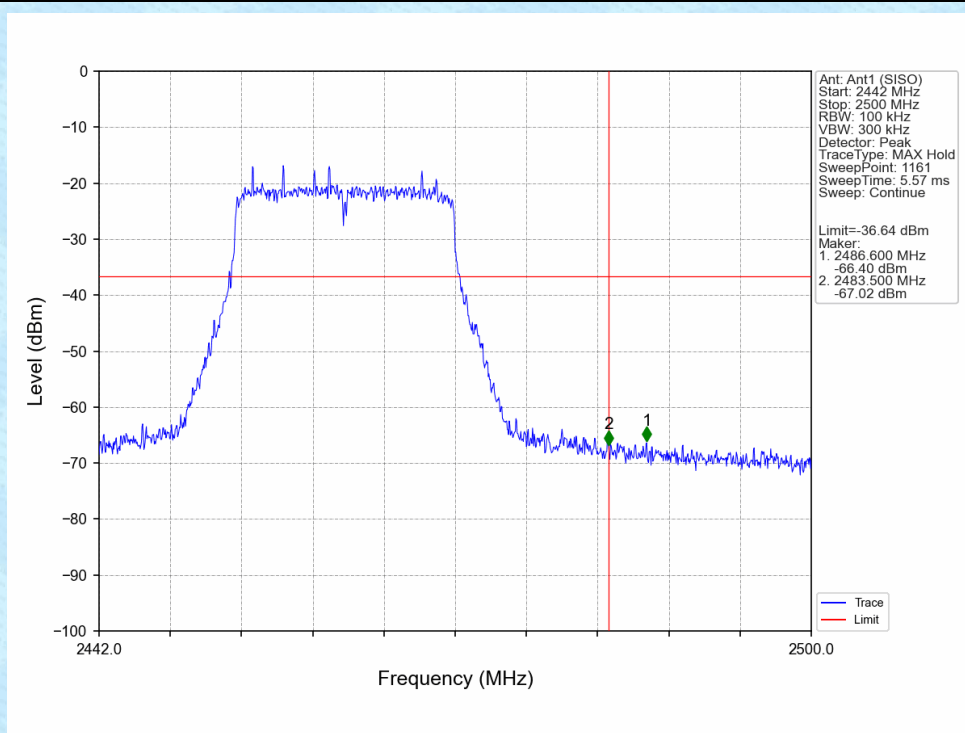
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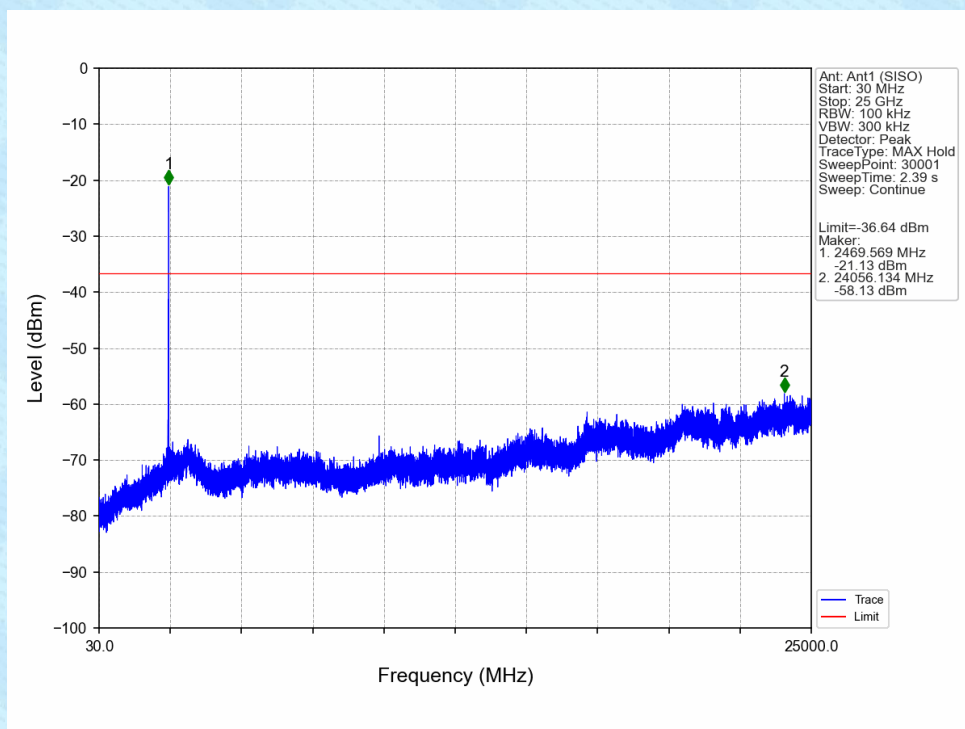
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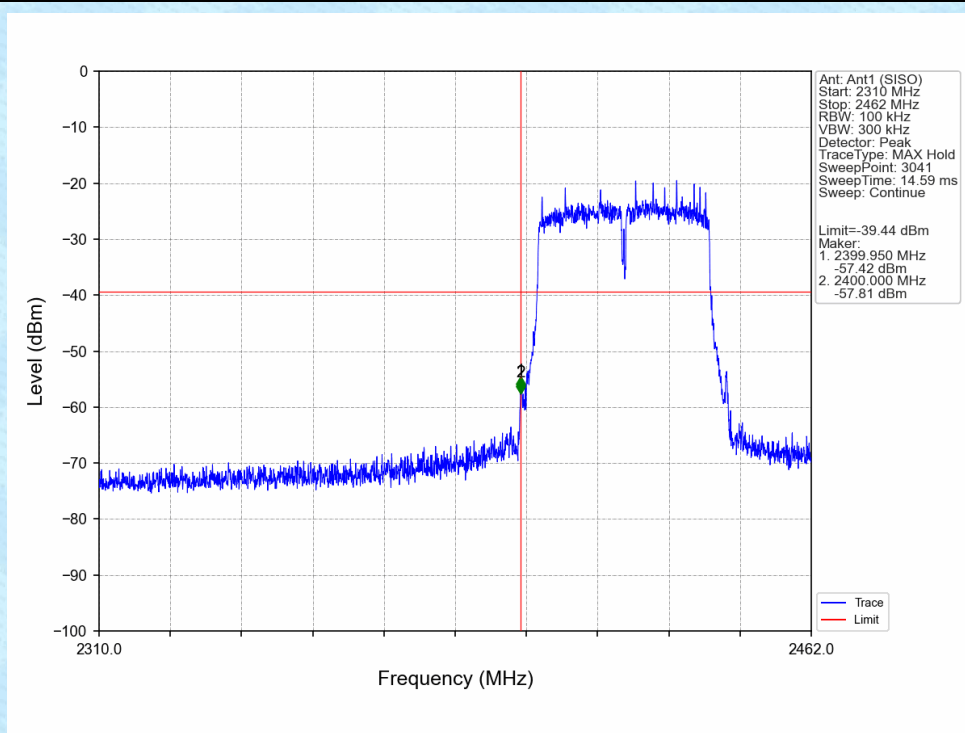
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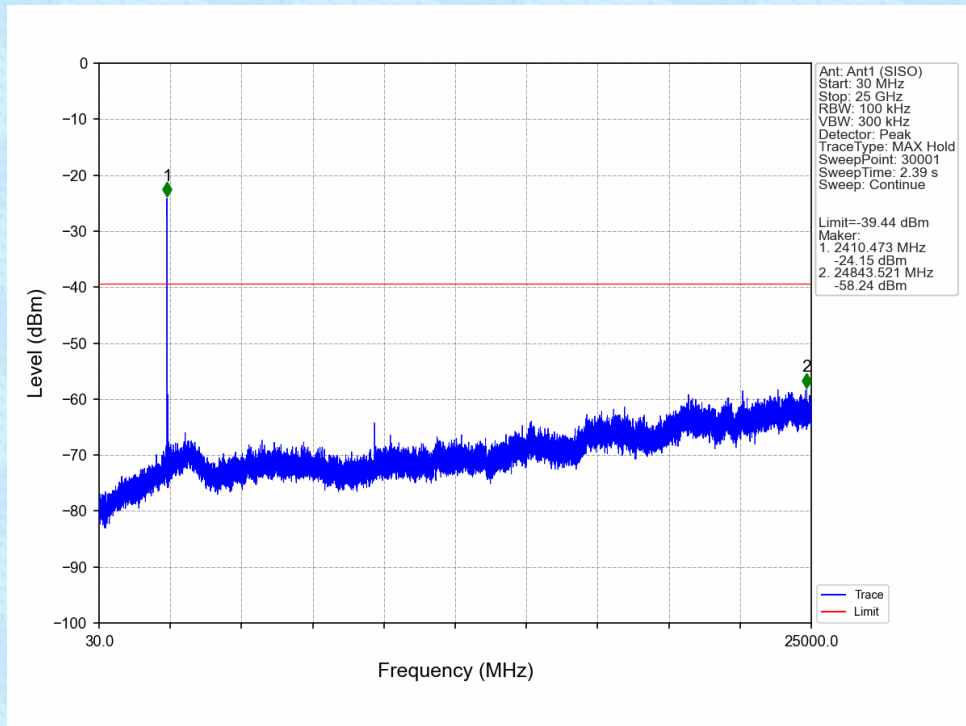
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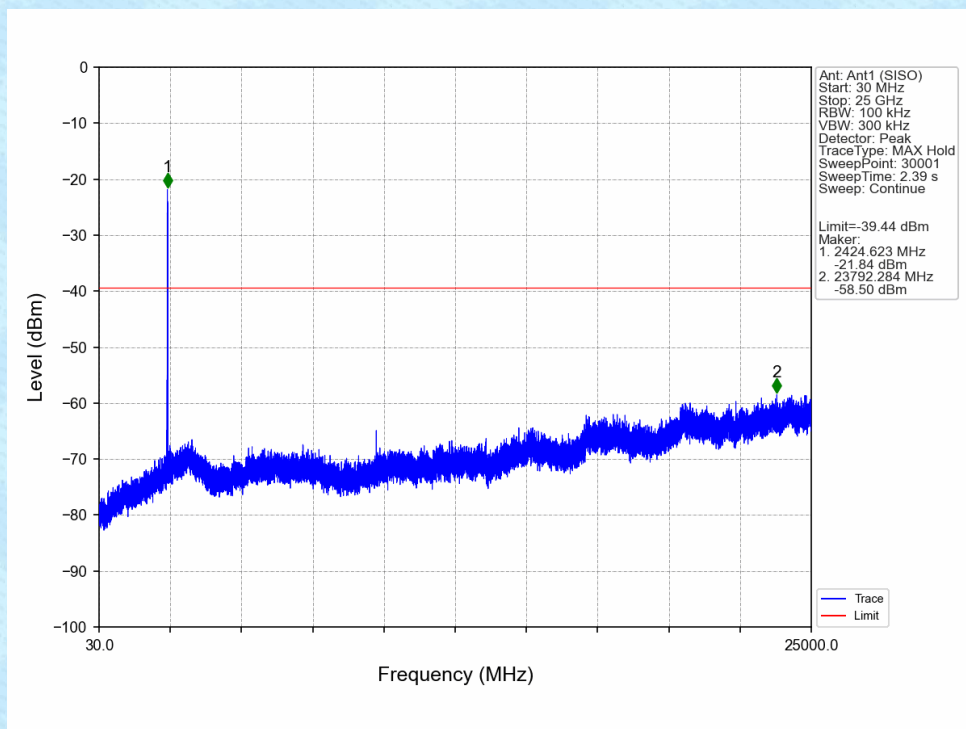
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



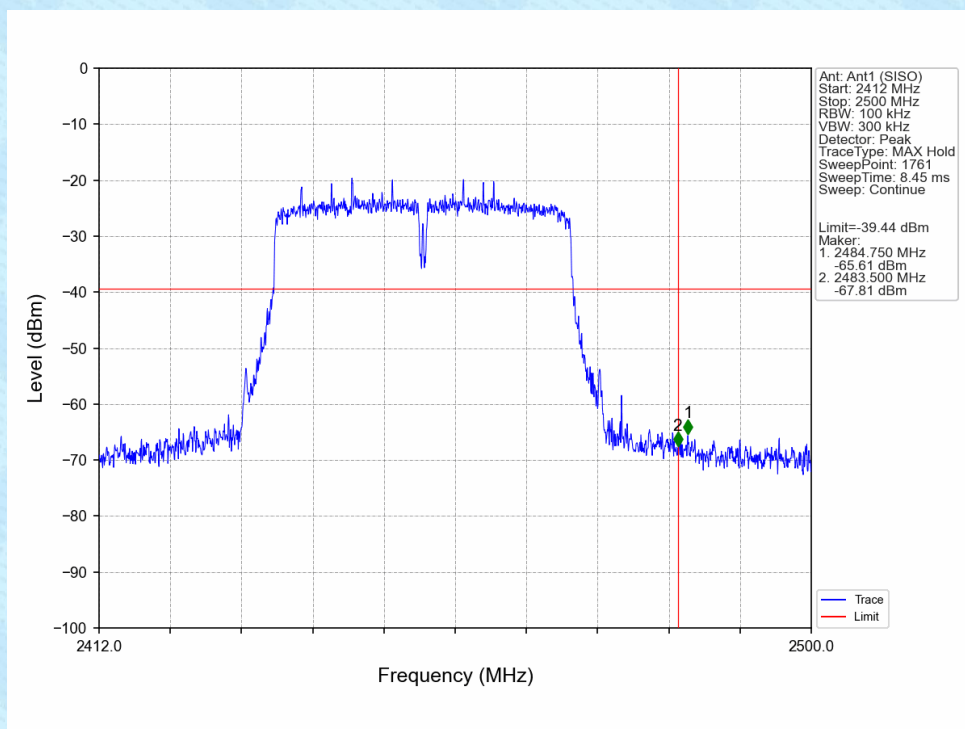
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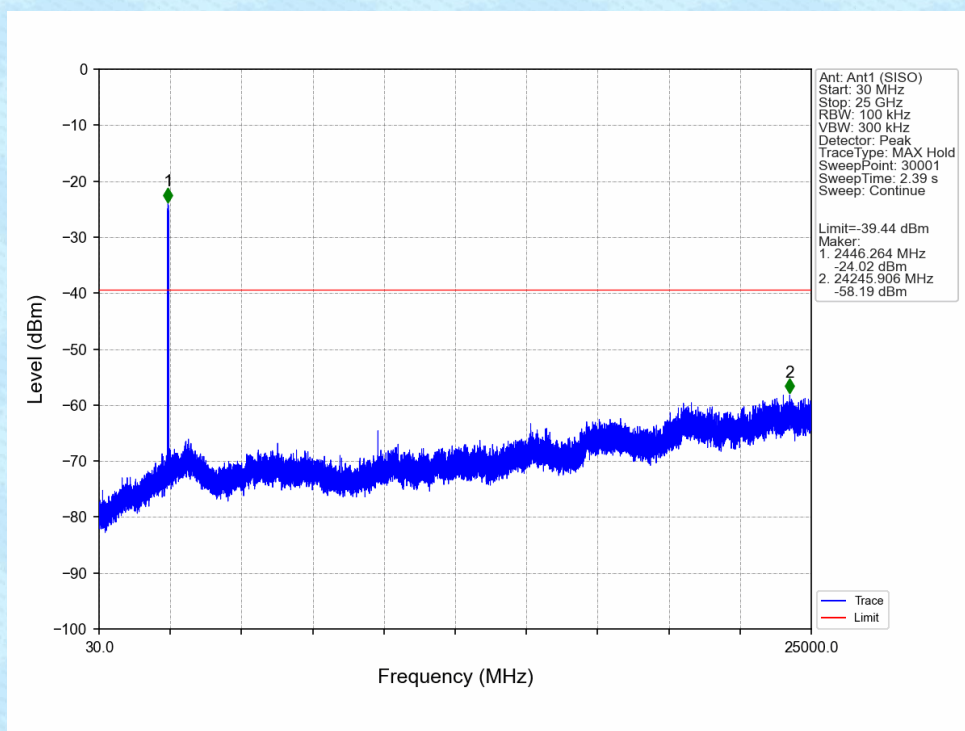
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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