

Appendix for KSCR210900011001

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



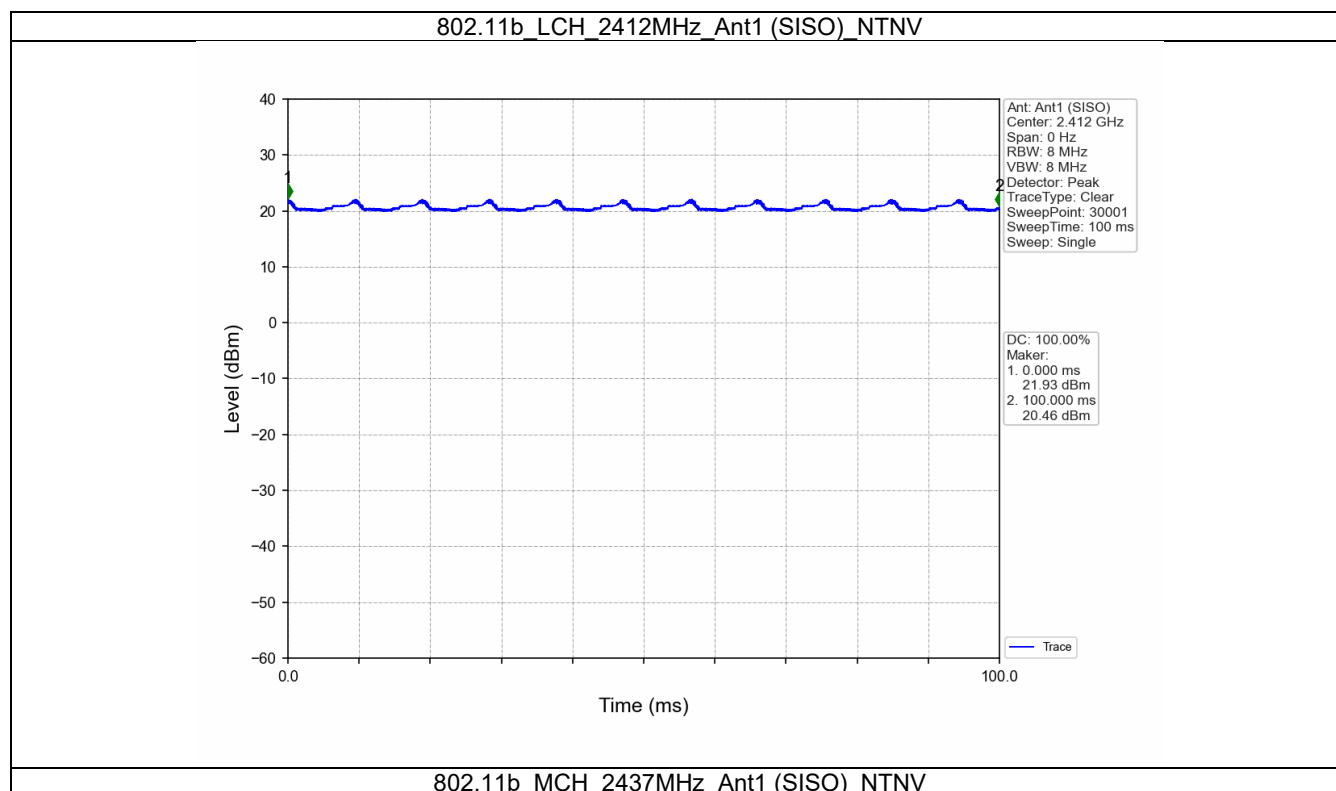
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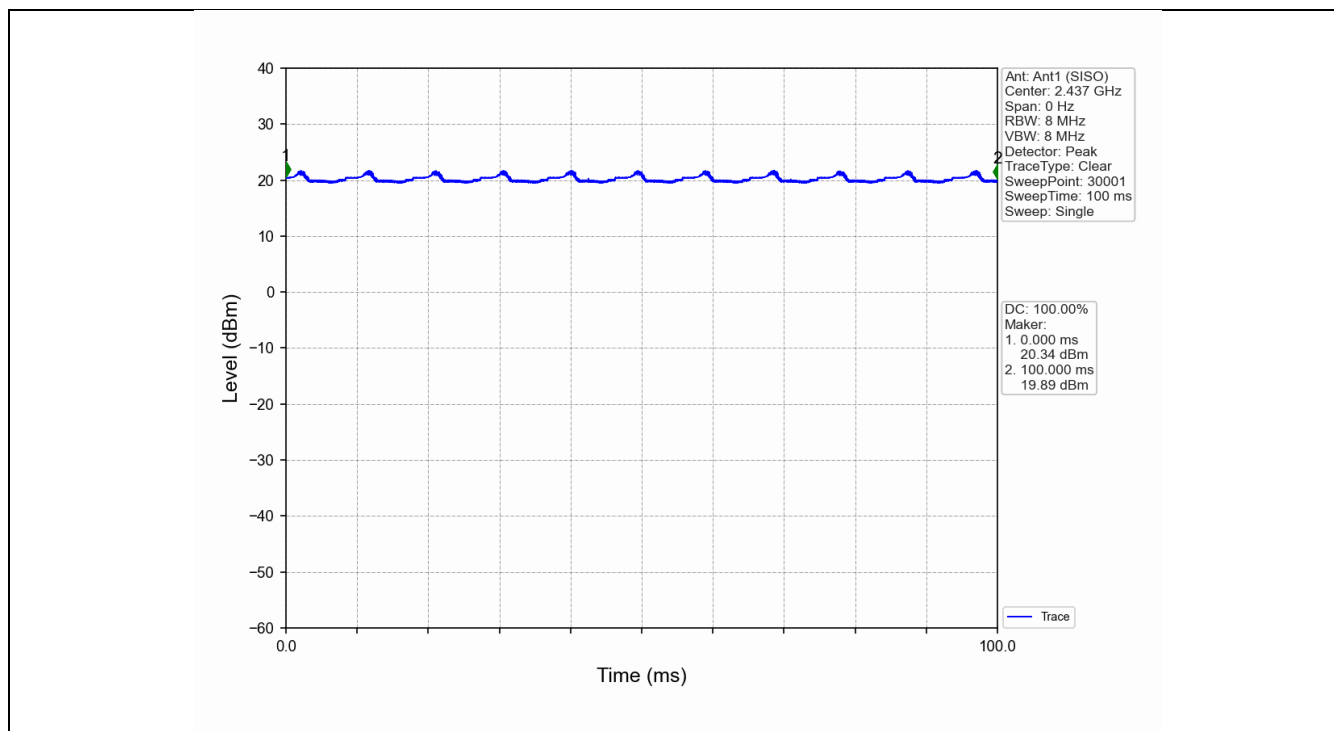
1.1.2 Test Graph



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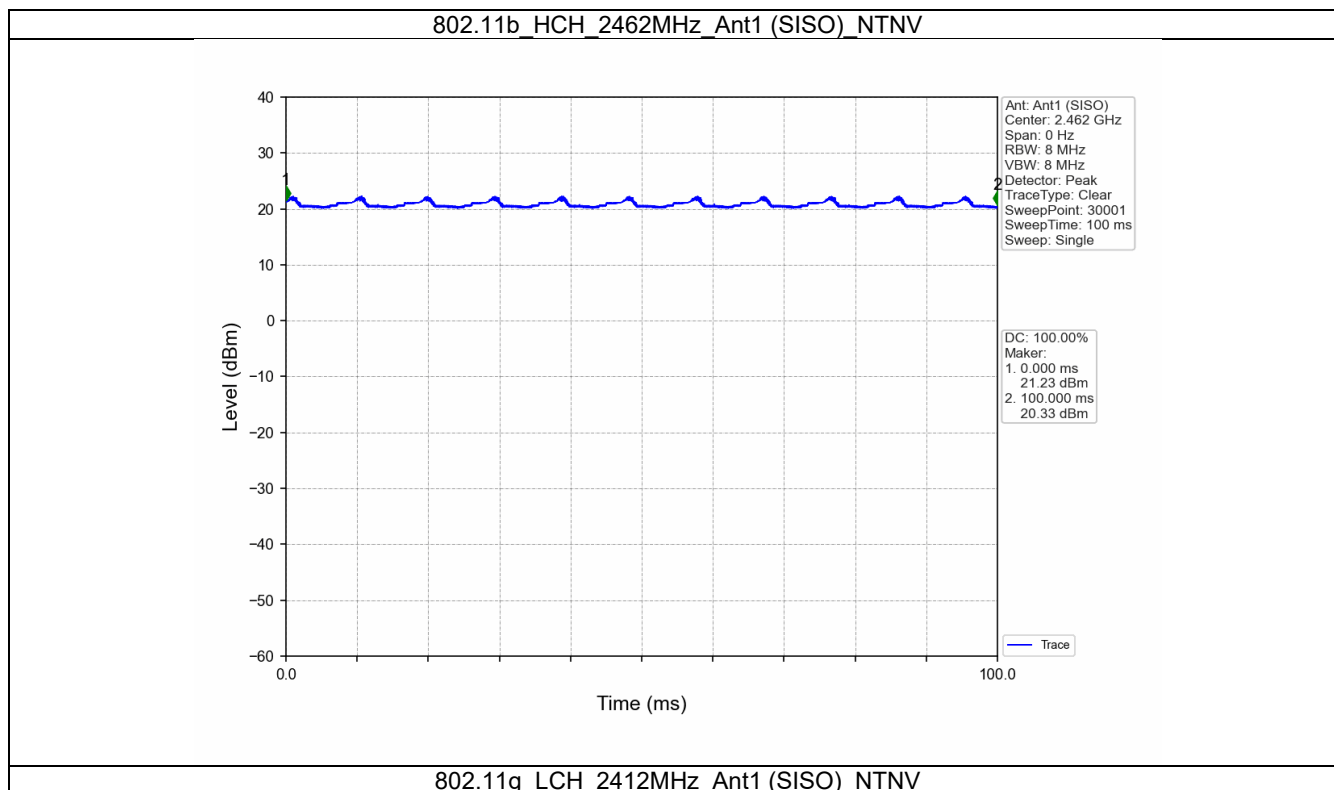
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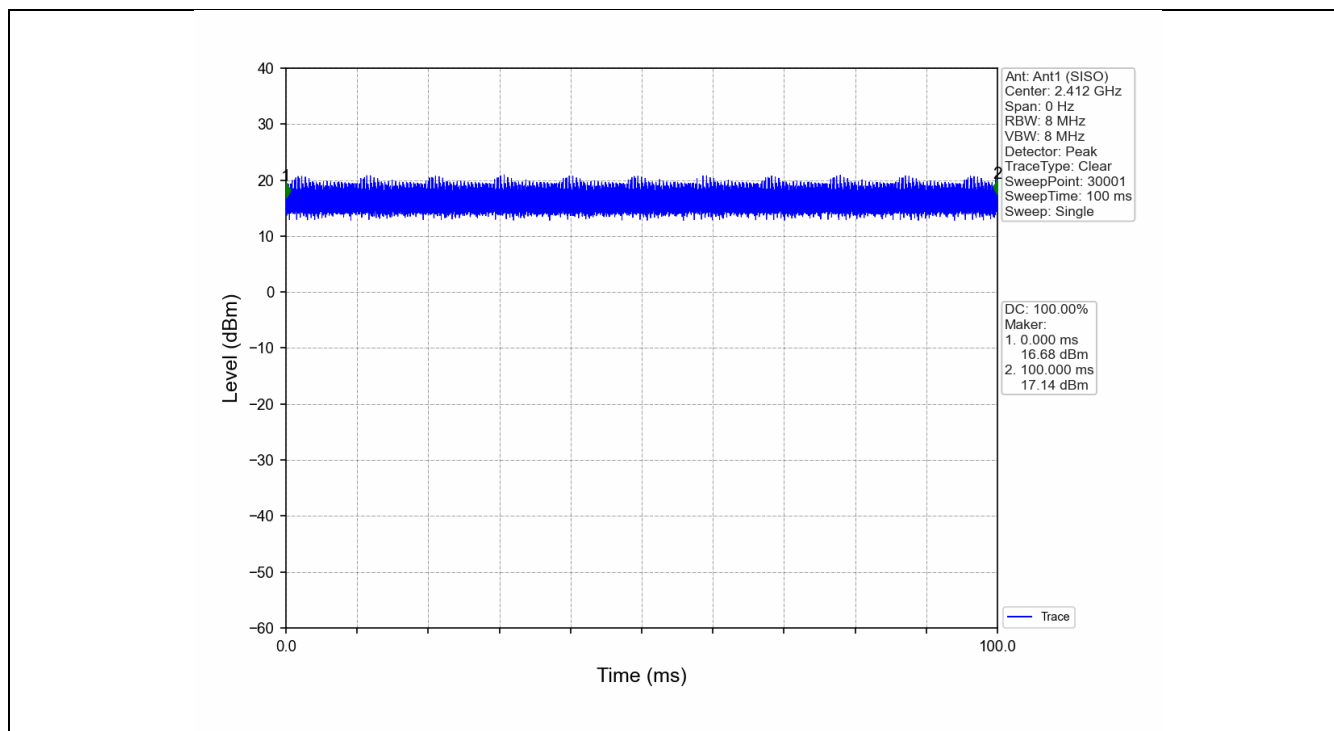


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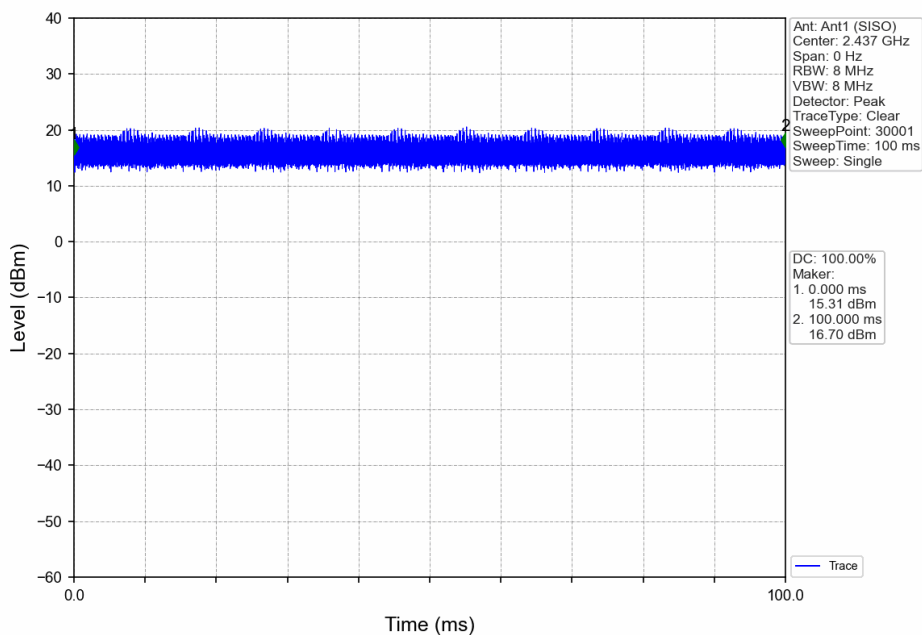


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

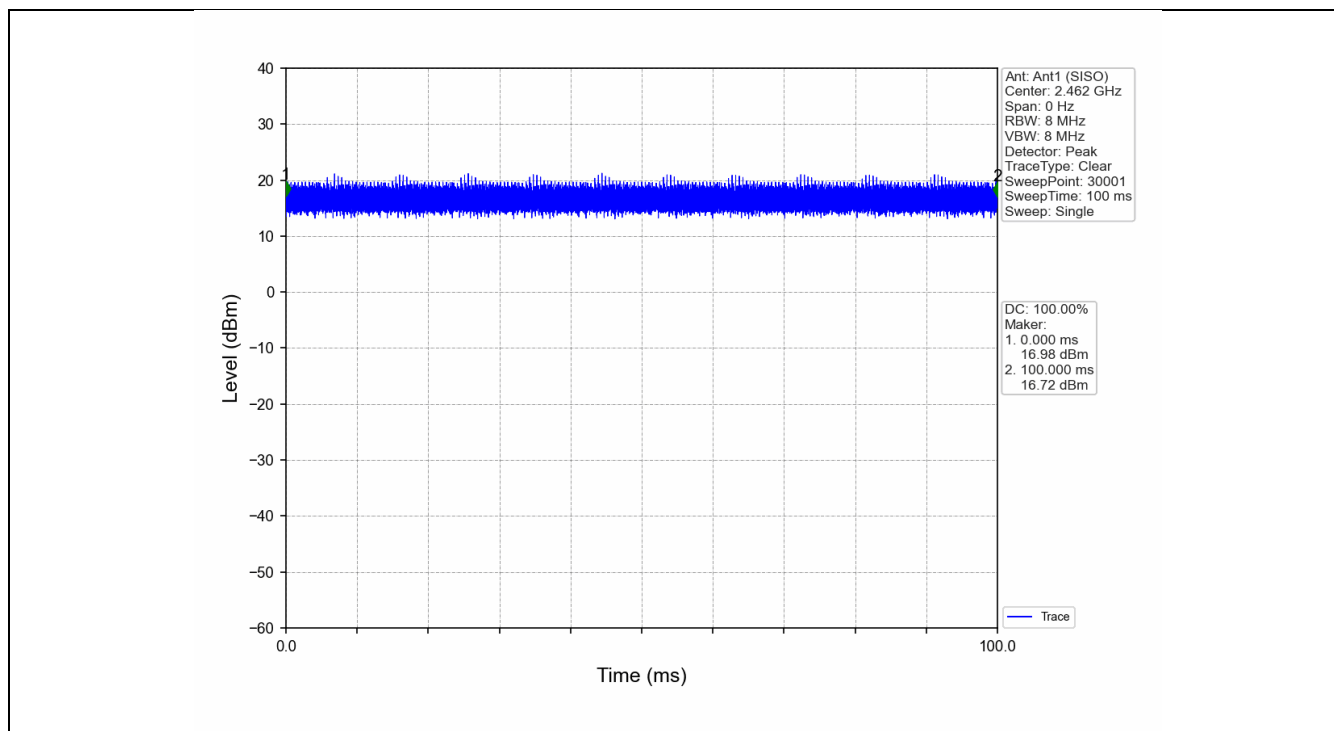


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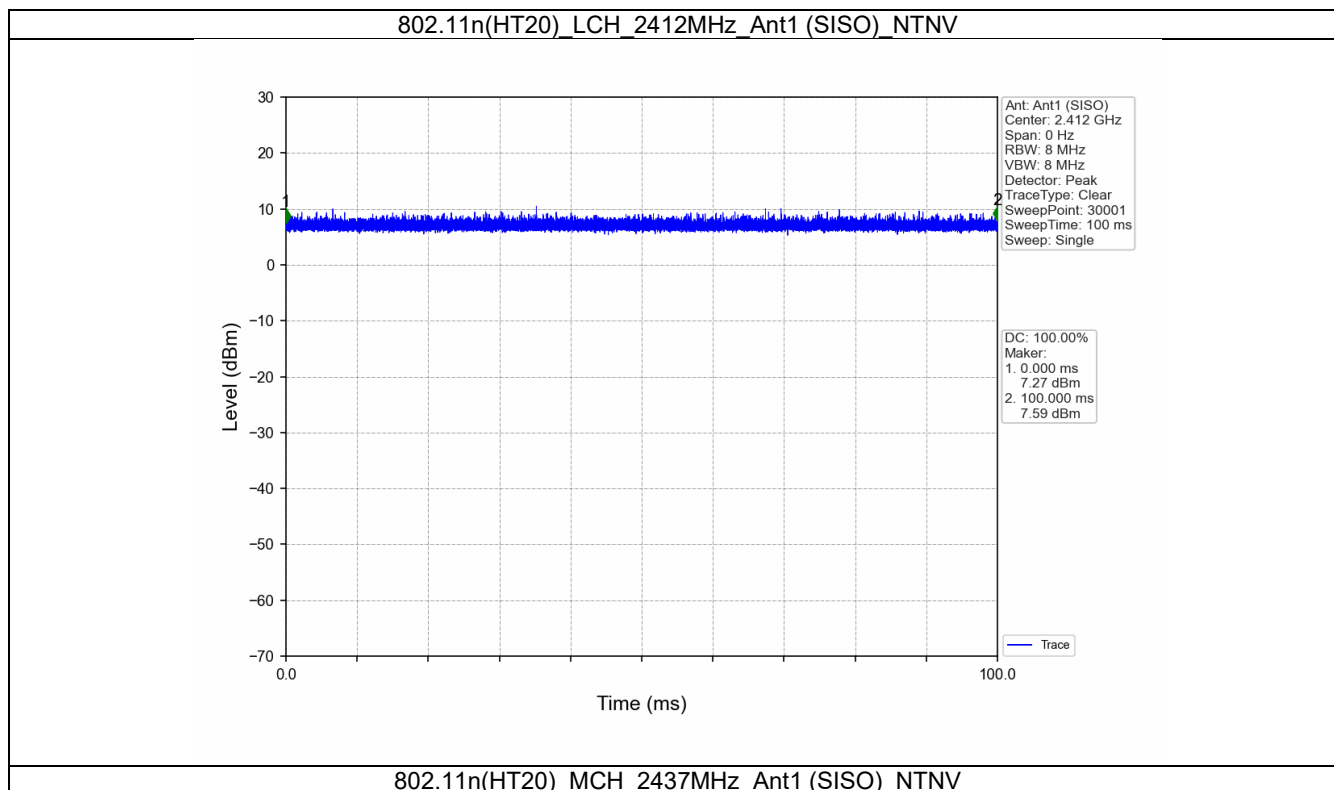


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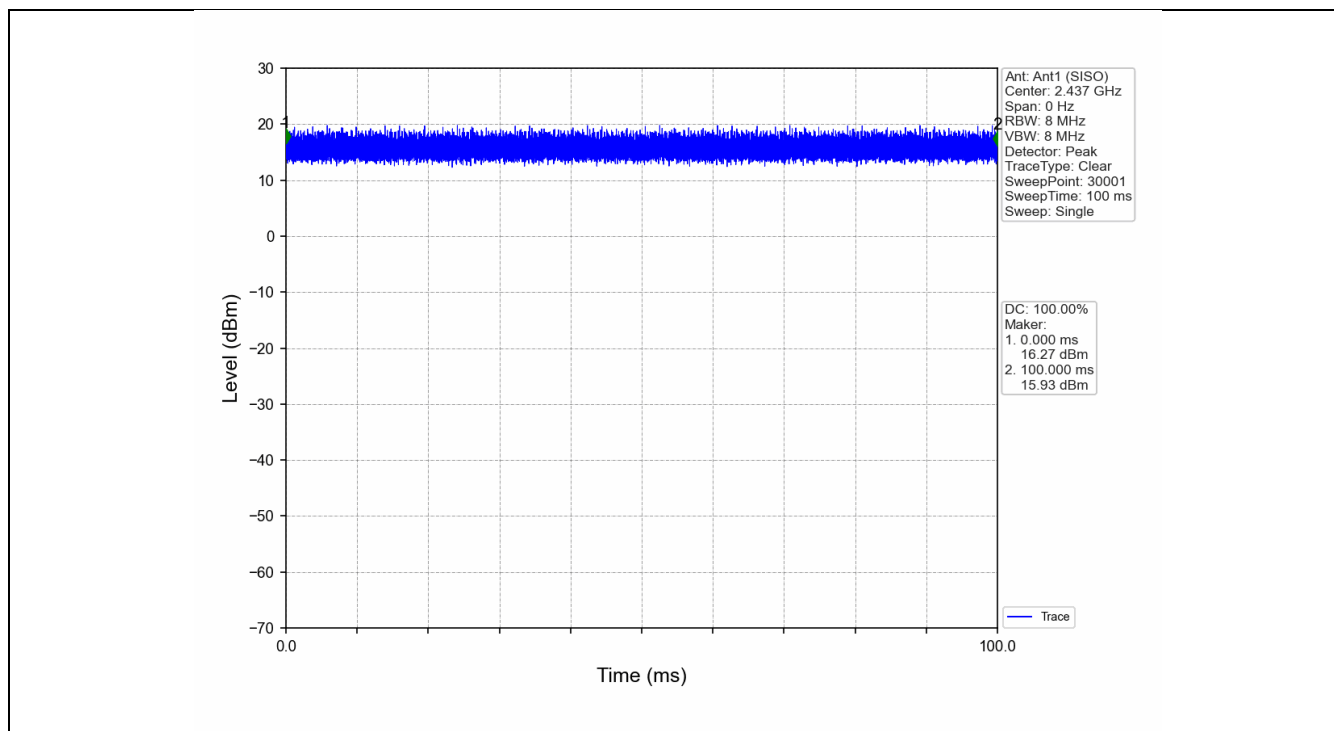
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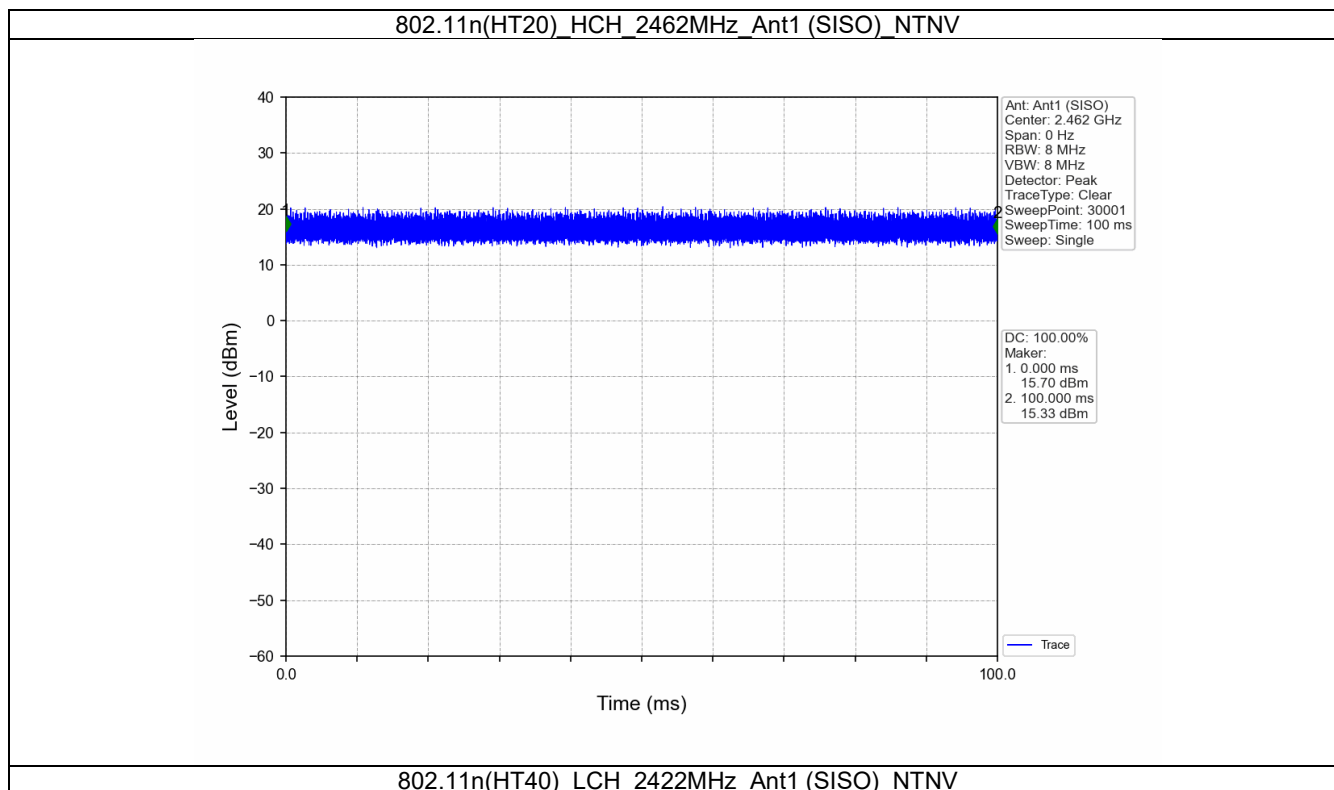
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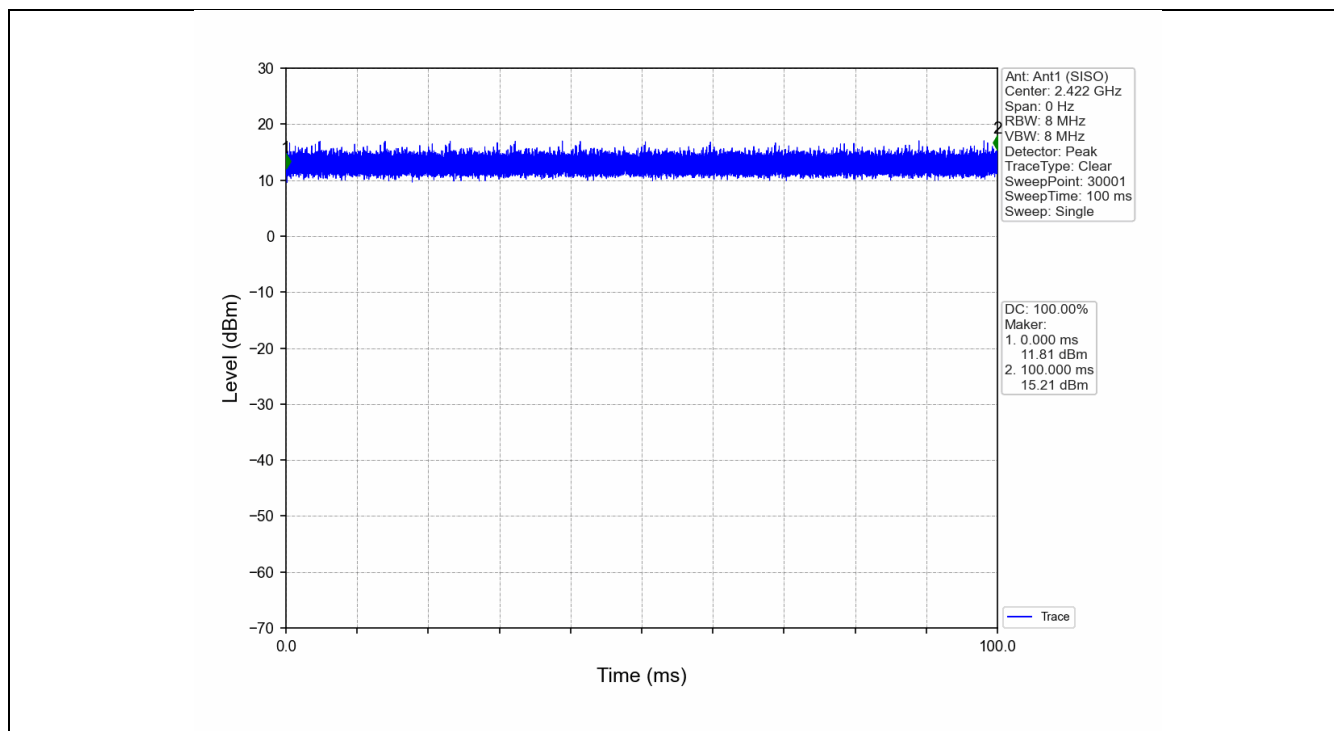


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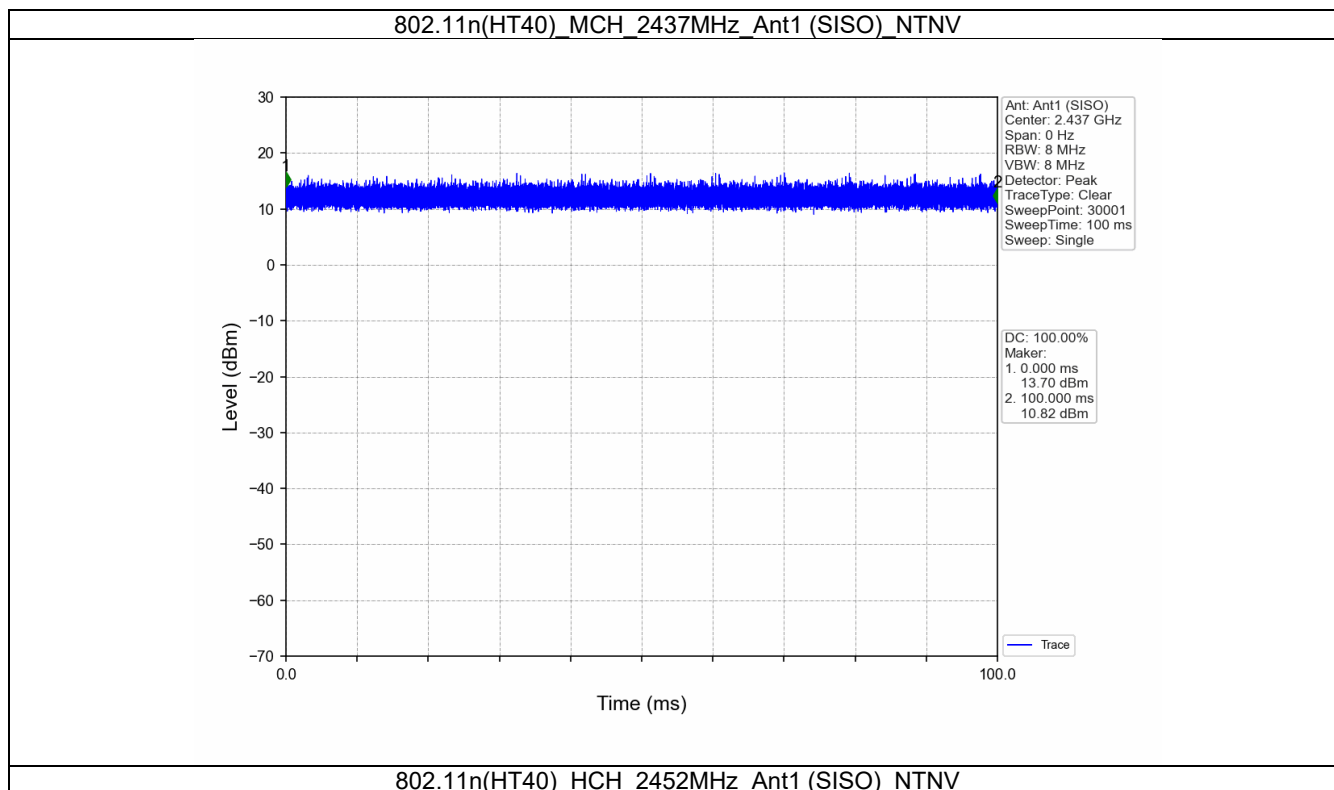
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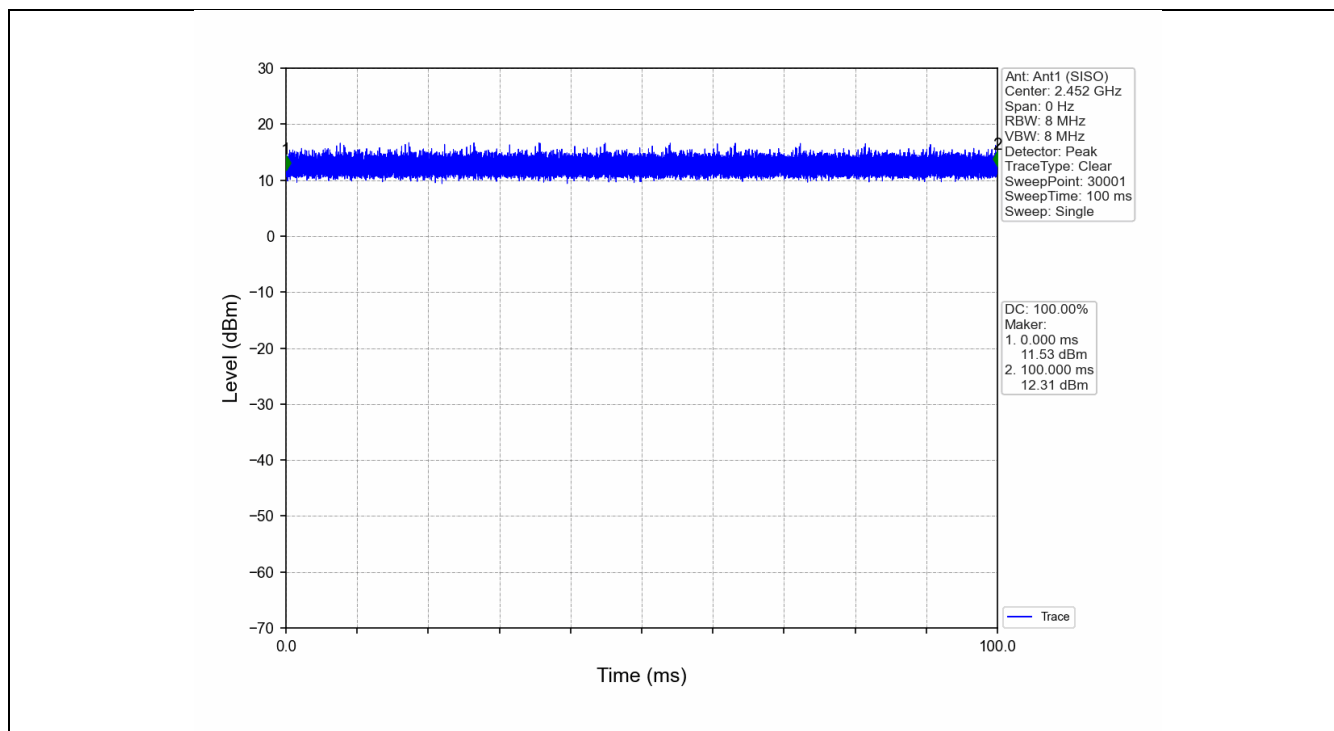


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.872	Pass
		2437	1	14.899	Pass
		2462	1	14.964	Pass
802.11g	SISO	2412	1	17.588	Pass
		2437	1	17.649	Pass
		2462	1	17.837	Pass
802.11n (HT20)	SISO	2412	1	18.401	Pass
		2437	1	18.391	Pass
		2462	1	18.553	Pass
802.11n (HT40)	SISO	2422	1	36.216	Pass
		2437	1	36.229	Pass
		2452	1	36.267	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

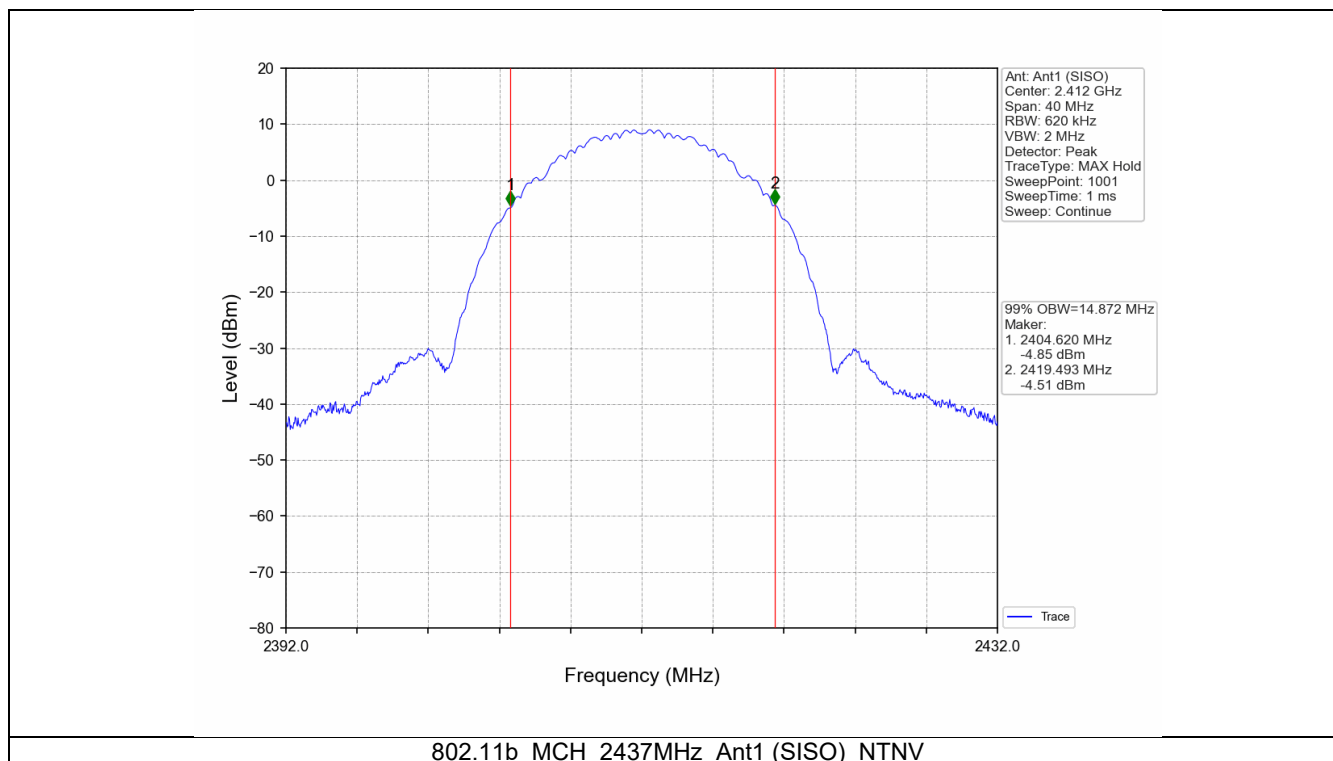


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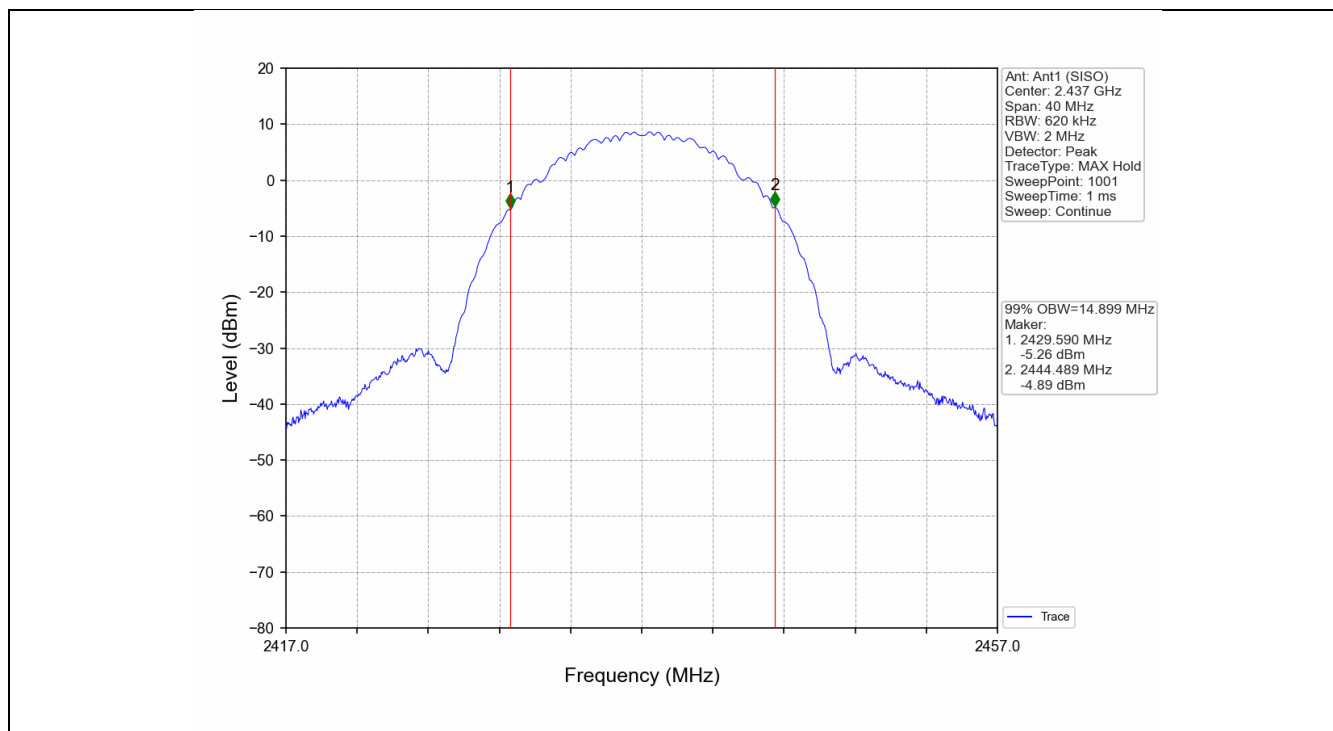
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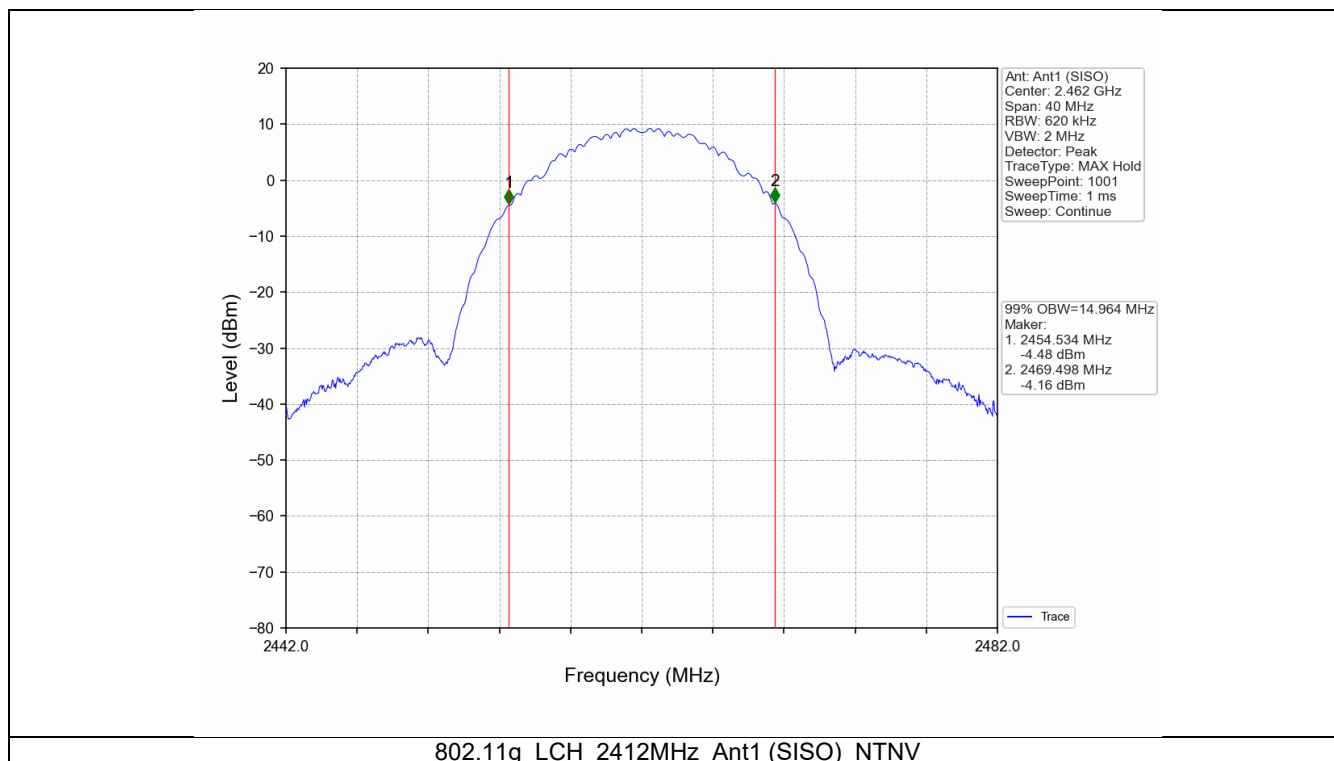
802.11b HCH 2462MHz Ant1 (SISO) NTV



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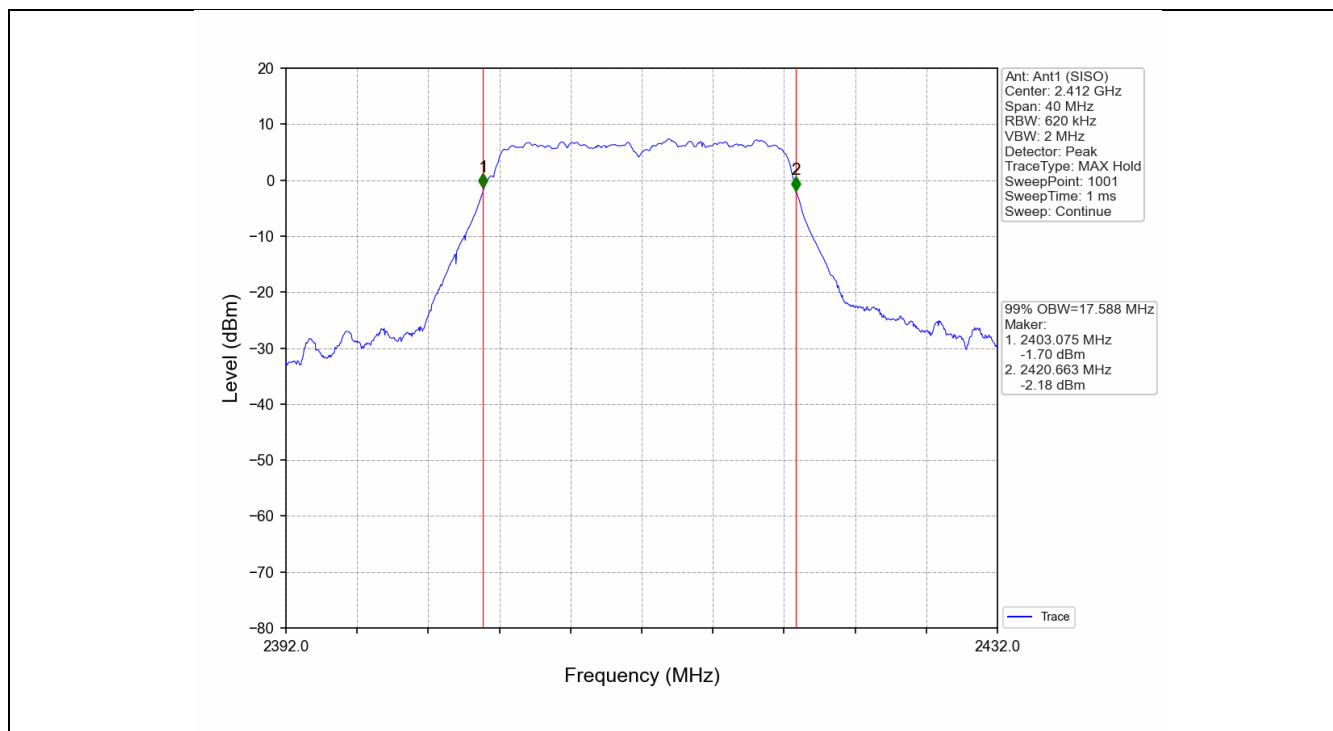
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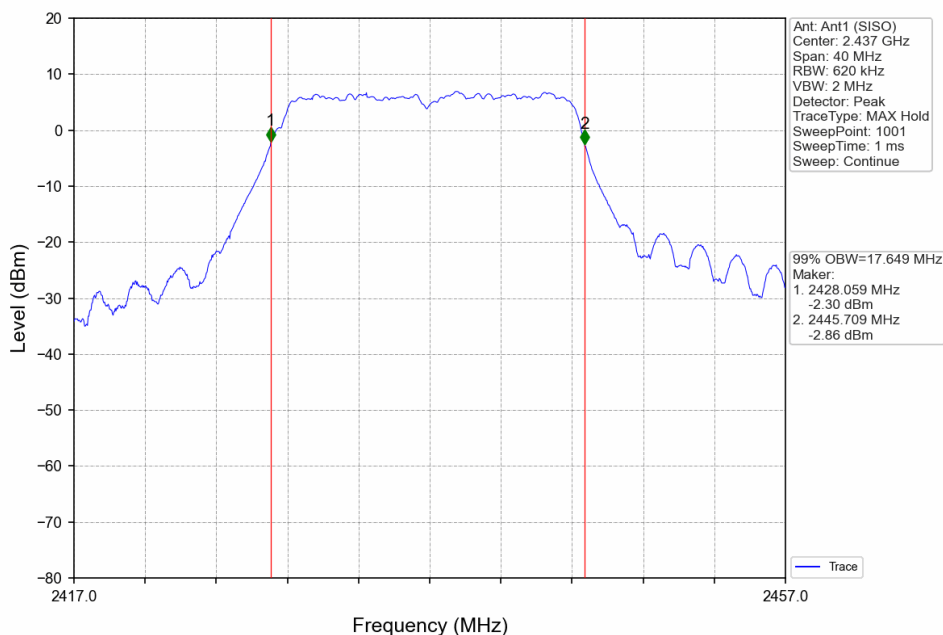
802.11g MCH 2437MHz Ant1 (SISO) NTN



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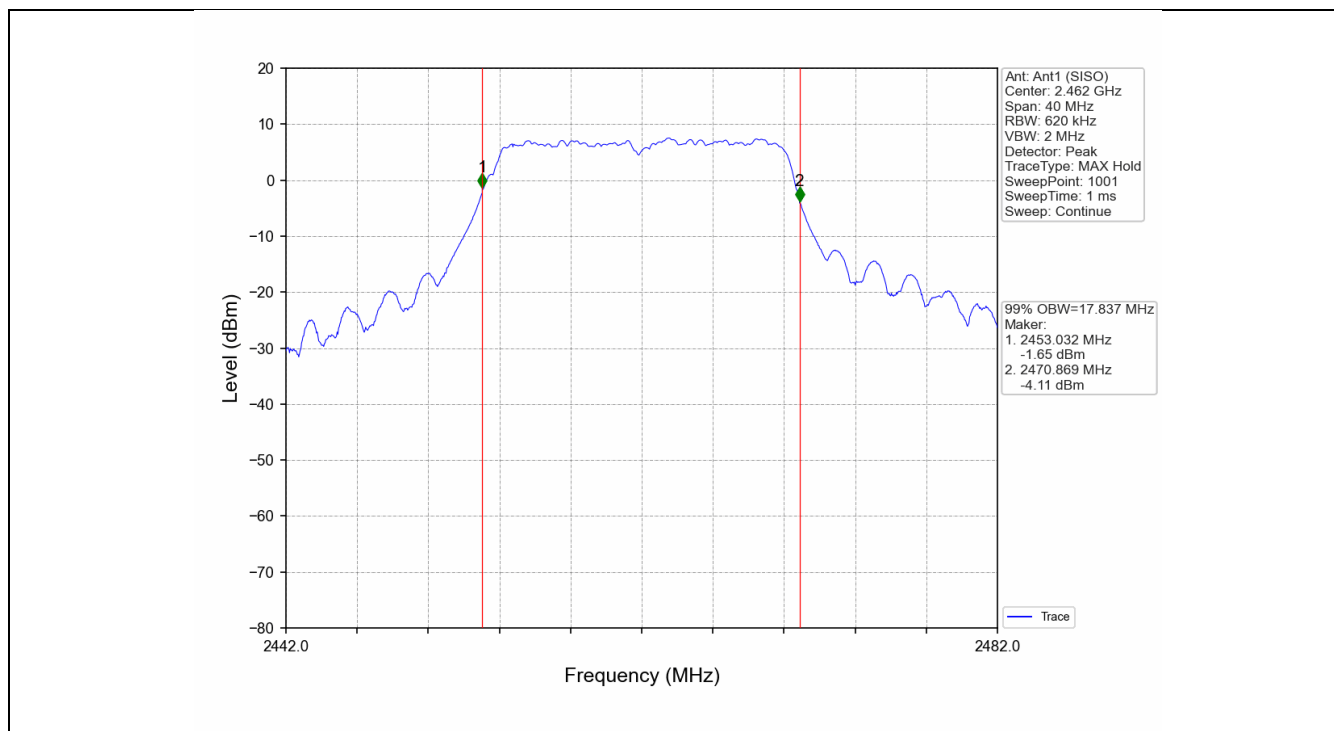
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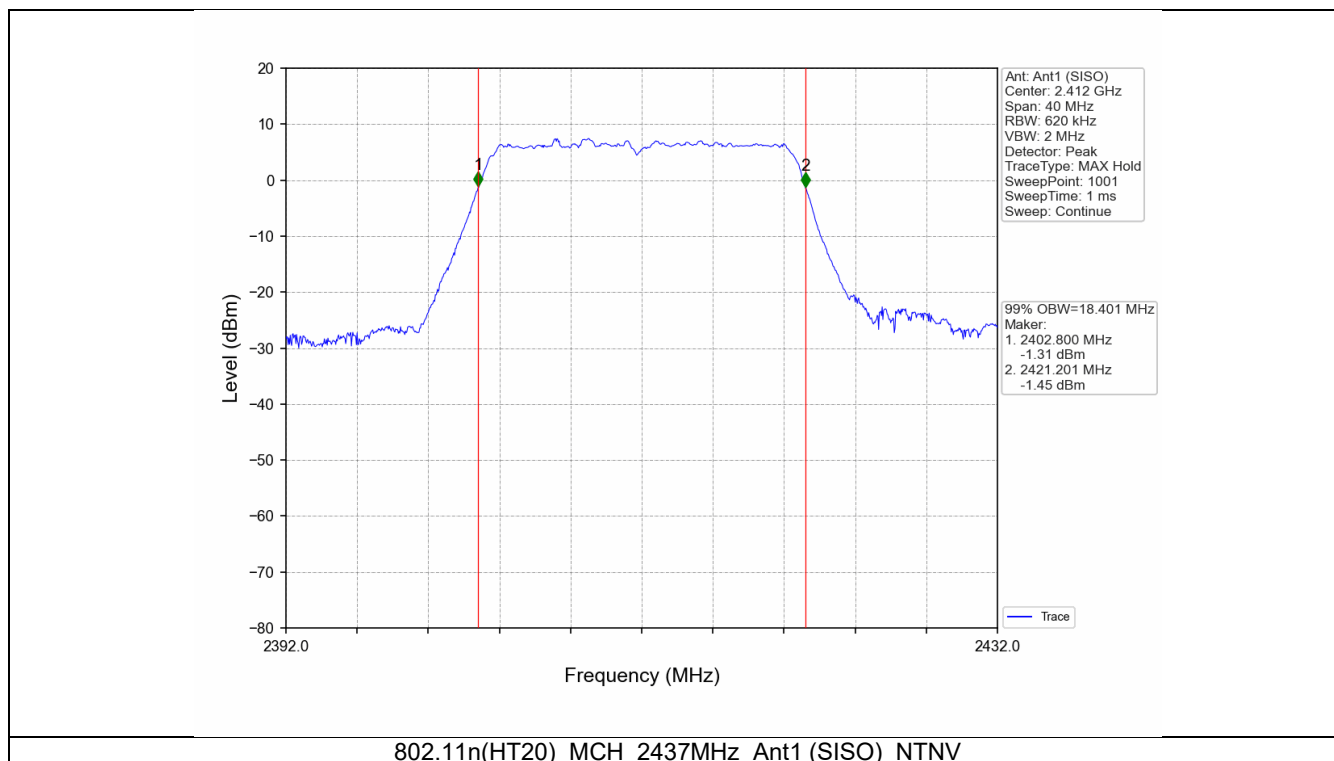
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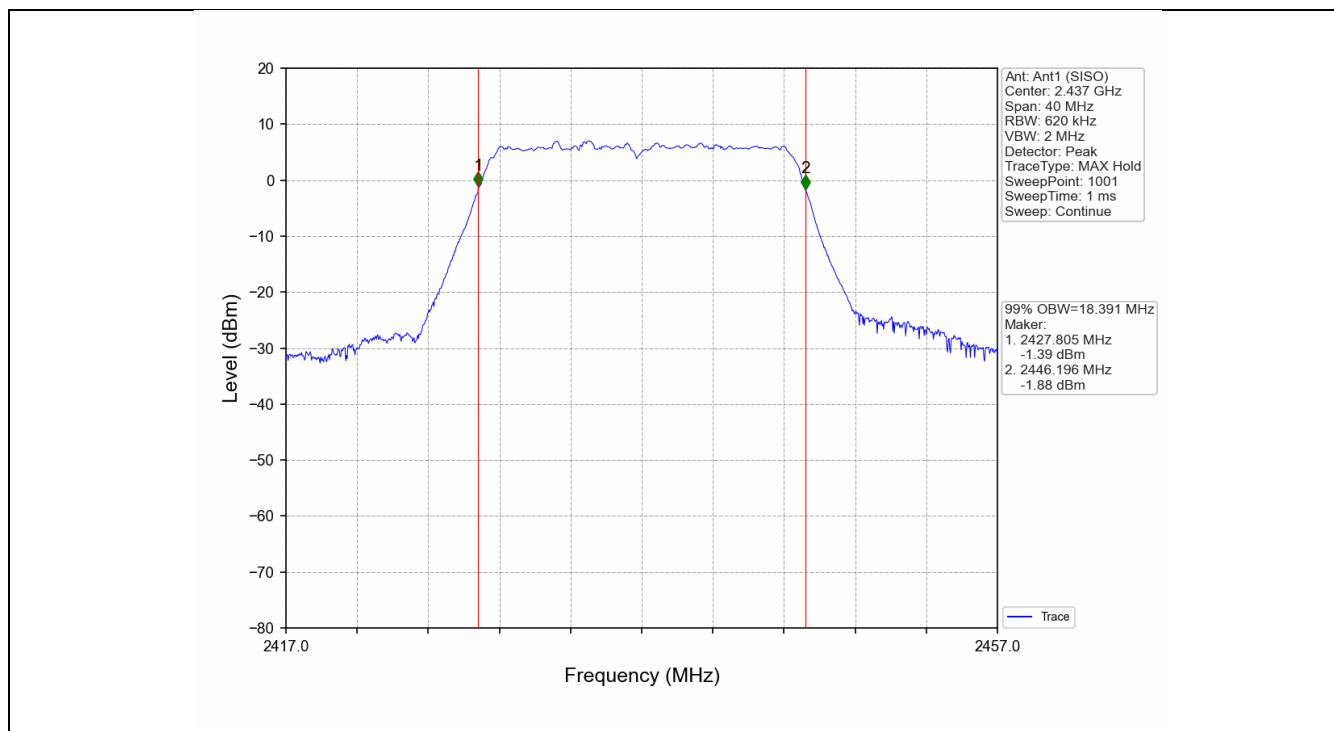
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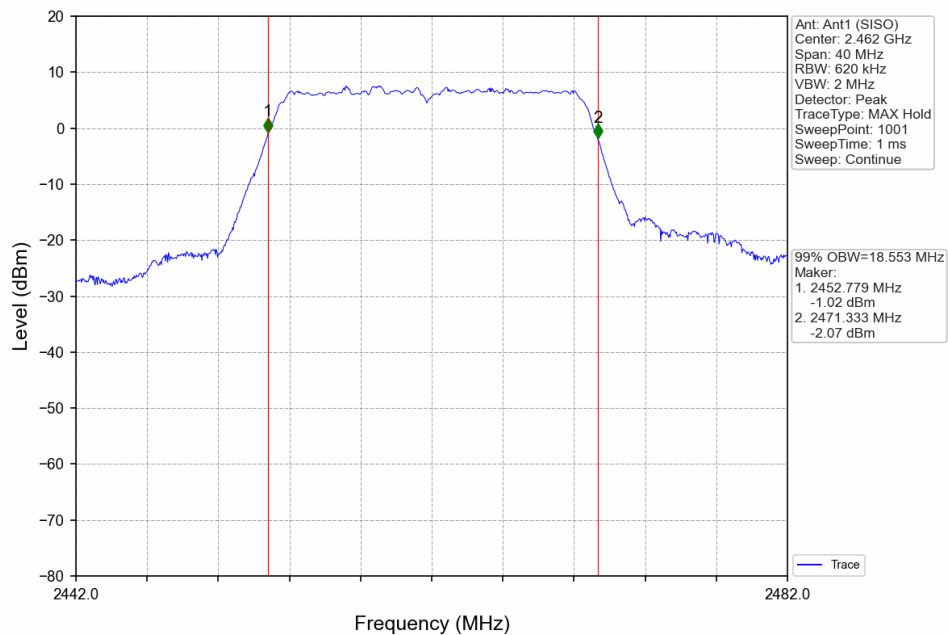
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

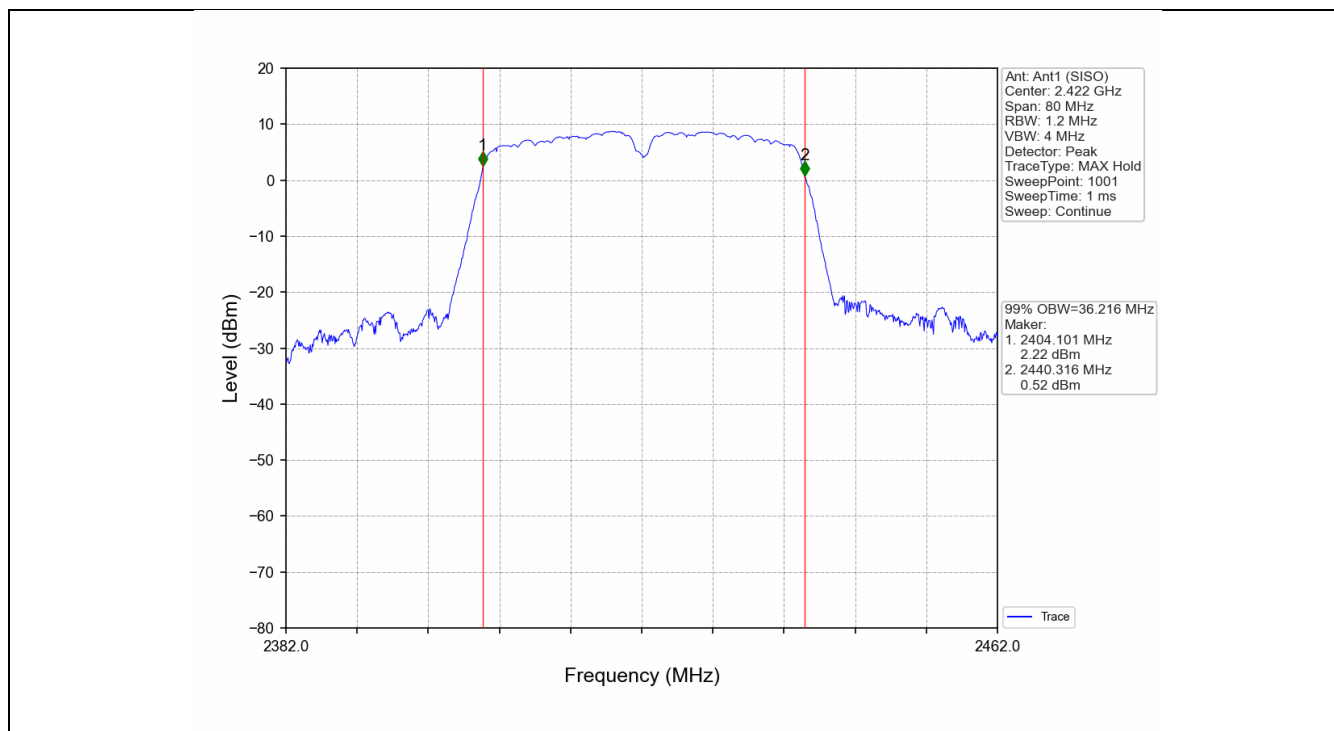


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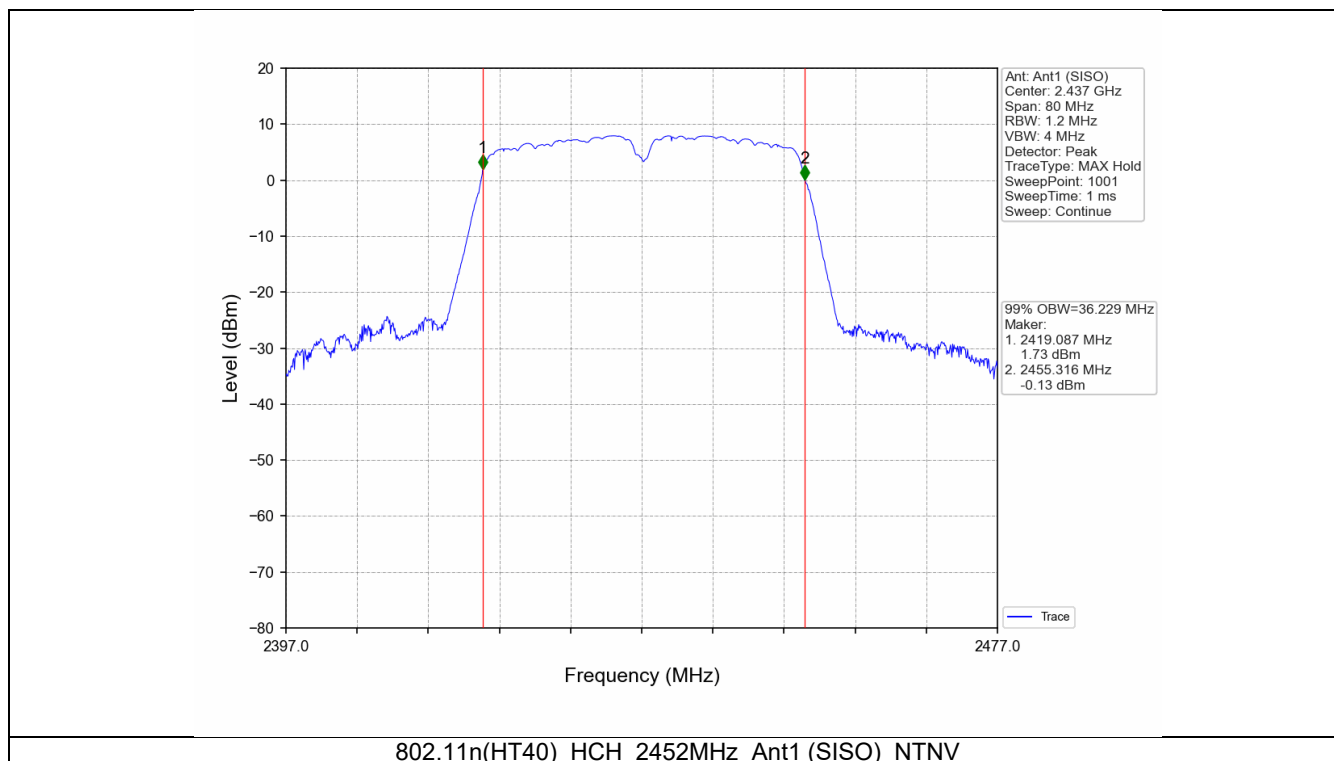
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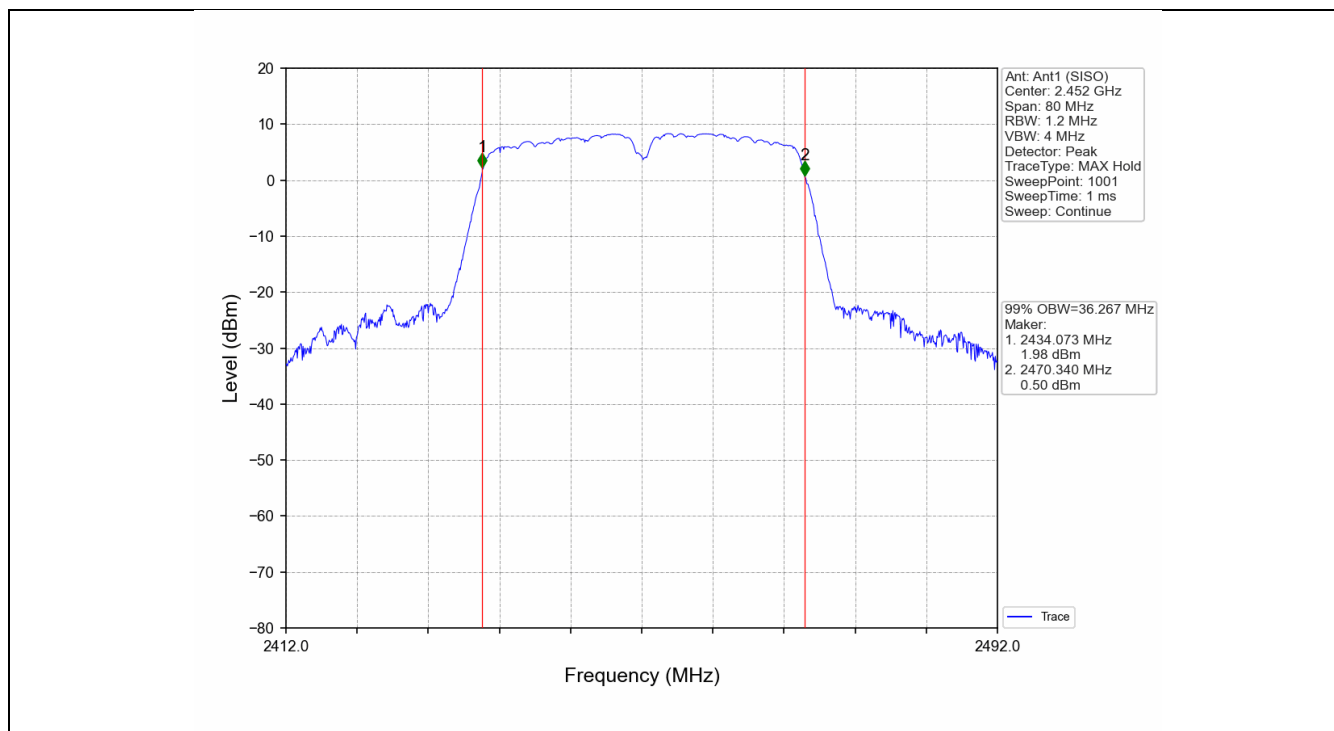
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.092	≥ 0.5	Pass
		2437	1	10.092	≥ 0.5	Pass
		2462	1	10.094	≥ 0.5	Pass
802.11g	SISO	2412	1	16.596	≥ 0.5	Pass
		2437	1	16.596	≥ 0.5	Pass
		2462	1	16.588	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.778	≥ 0.5	Pass
		2437	1	17.784	≥ 0.5	Pass
		2462	1	17.784	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.344	≥ 0.5	Pass
		2437	1	36.354	≥ 0.5	Pass
		2452	1	36.349	≥ 0.5	Pass



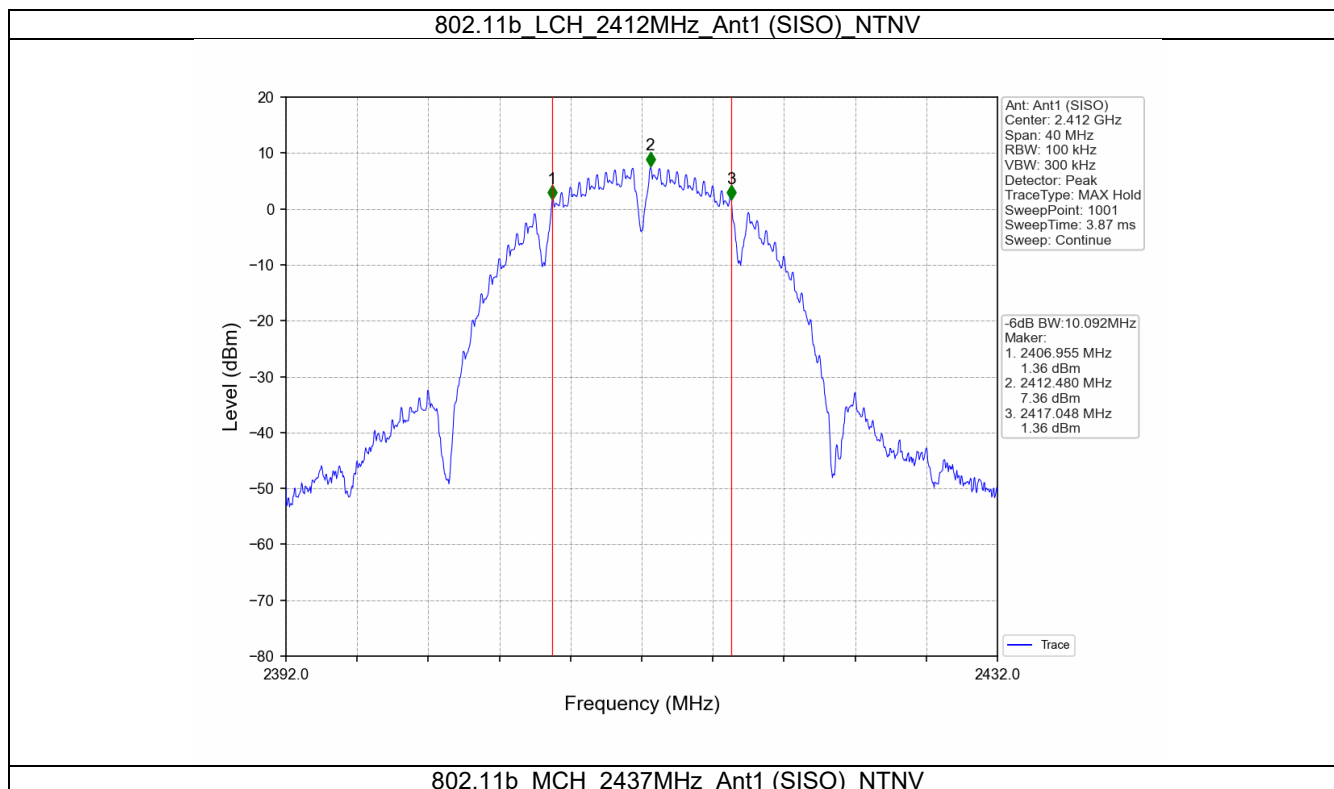
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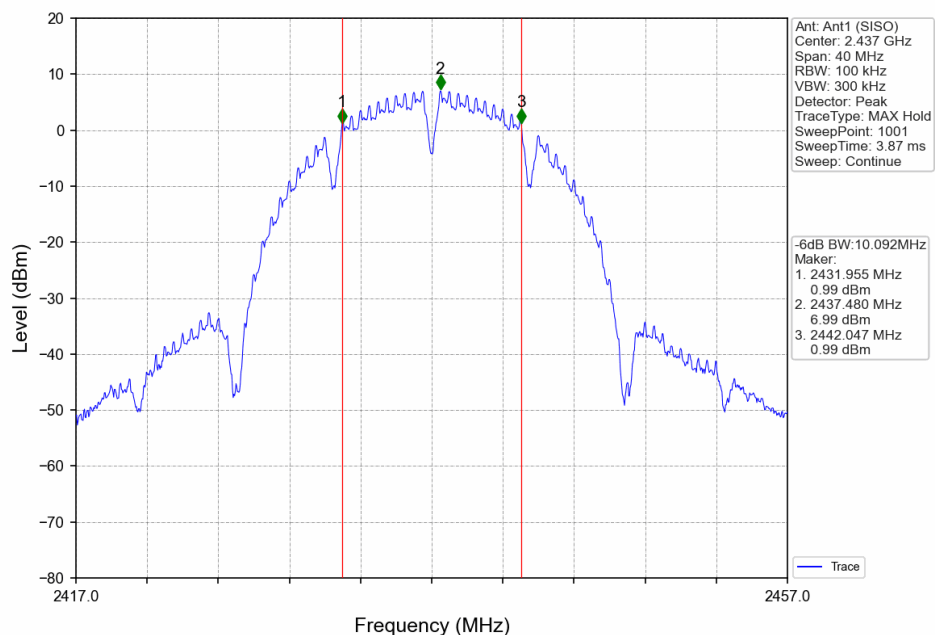
2.2.2 Test Graph



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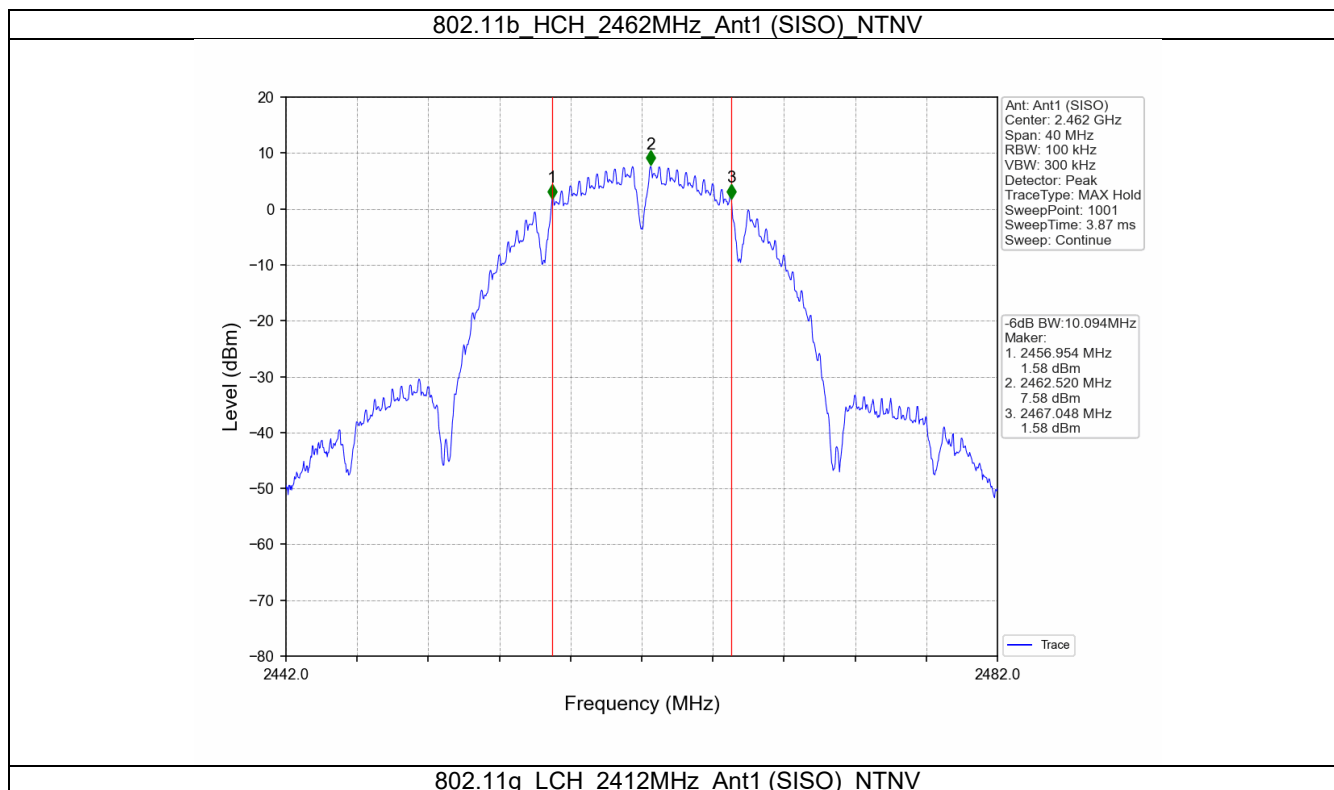


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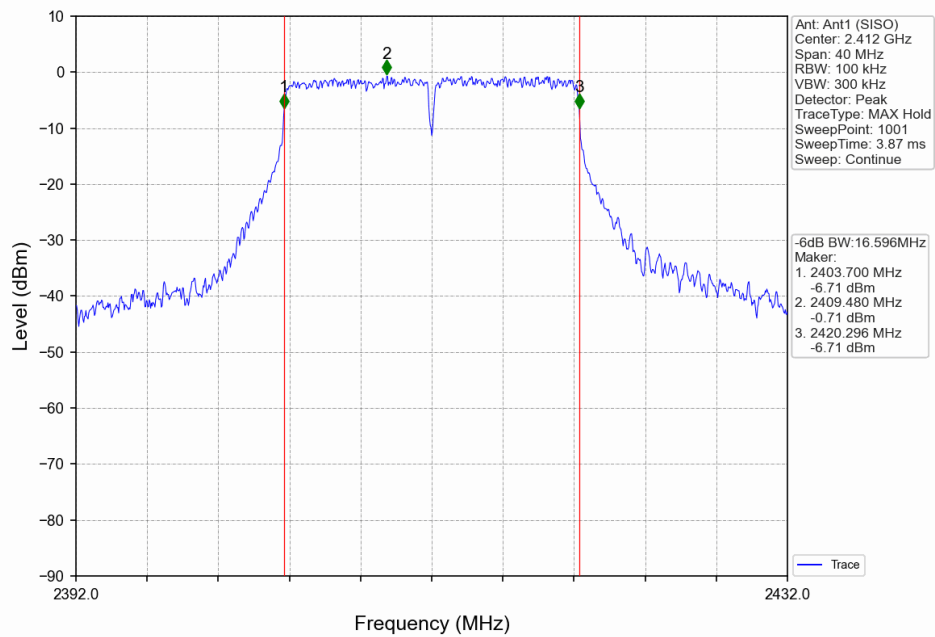
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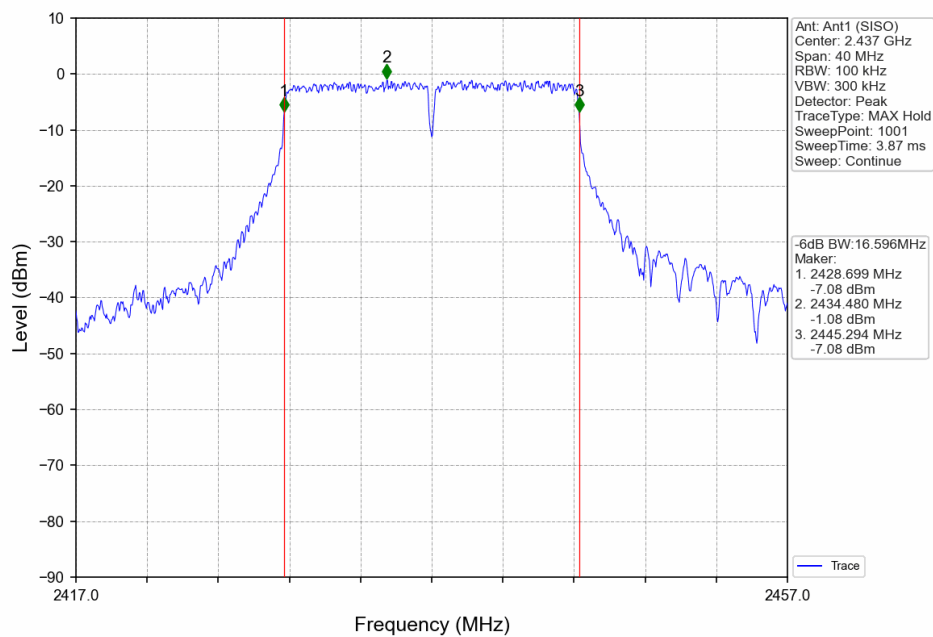
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

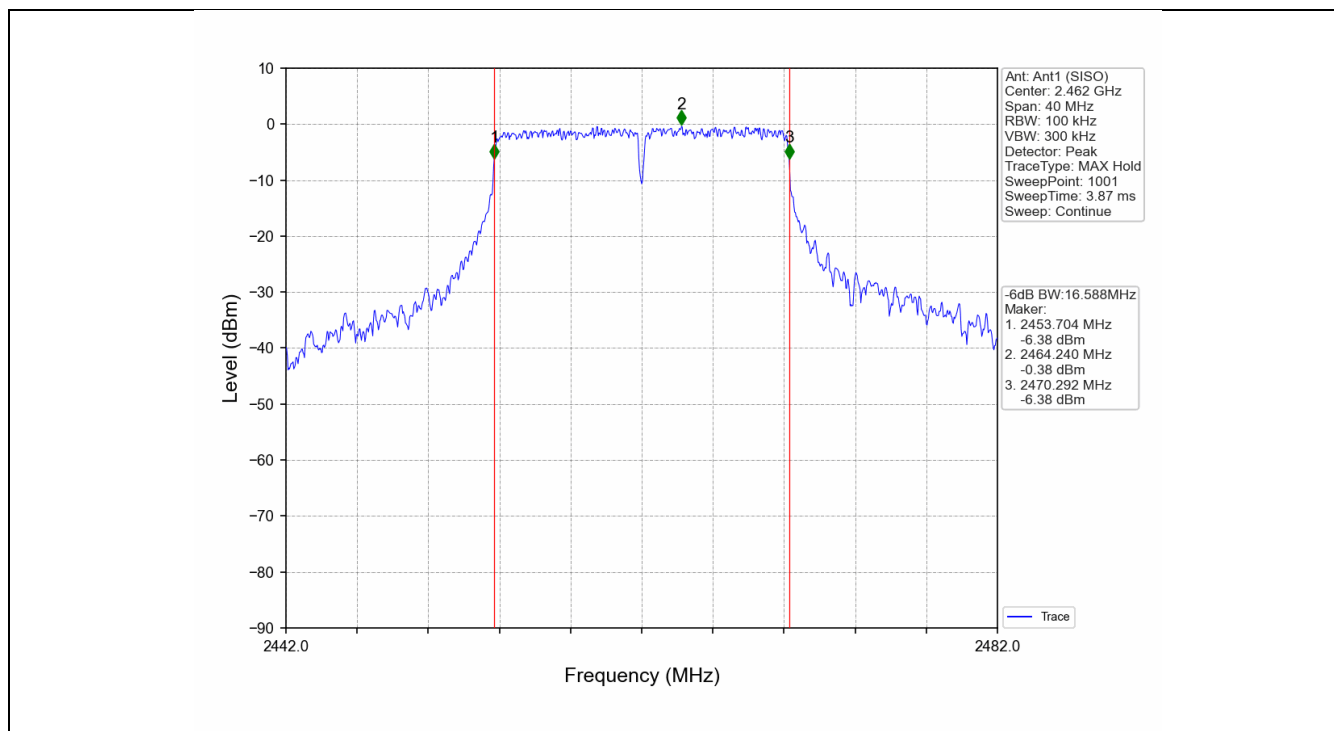


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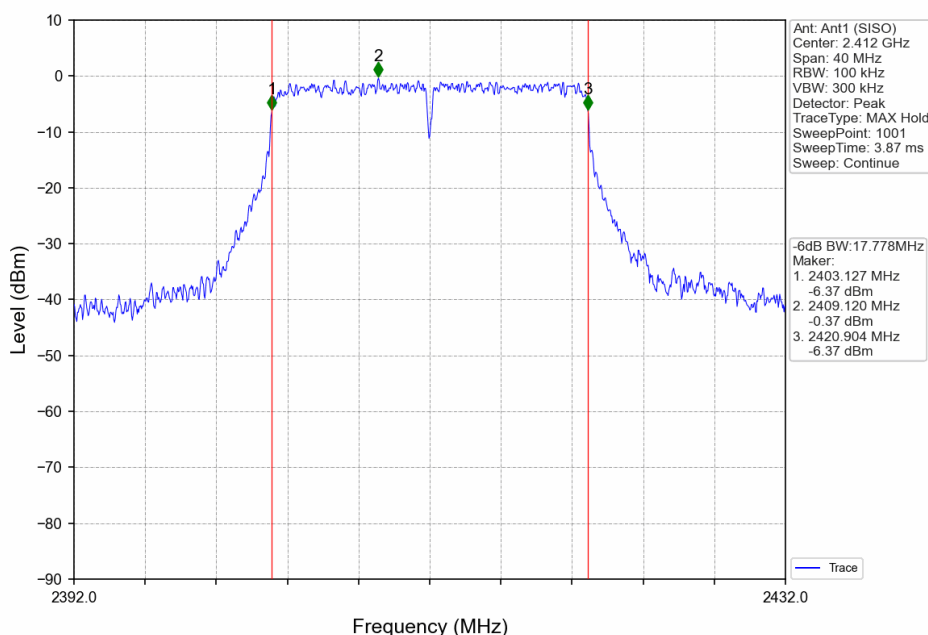
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



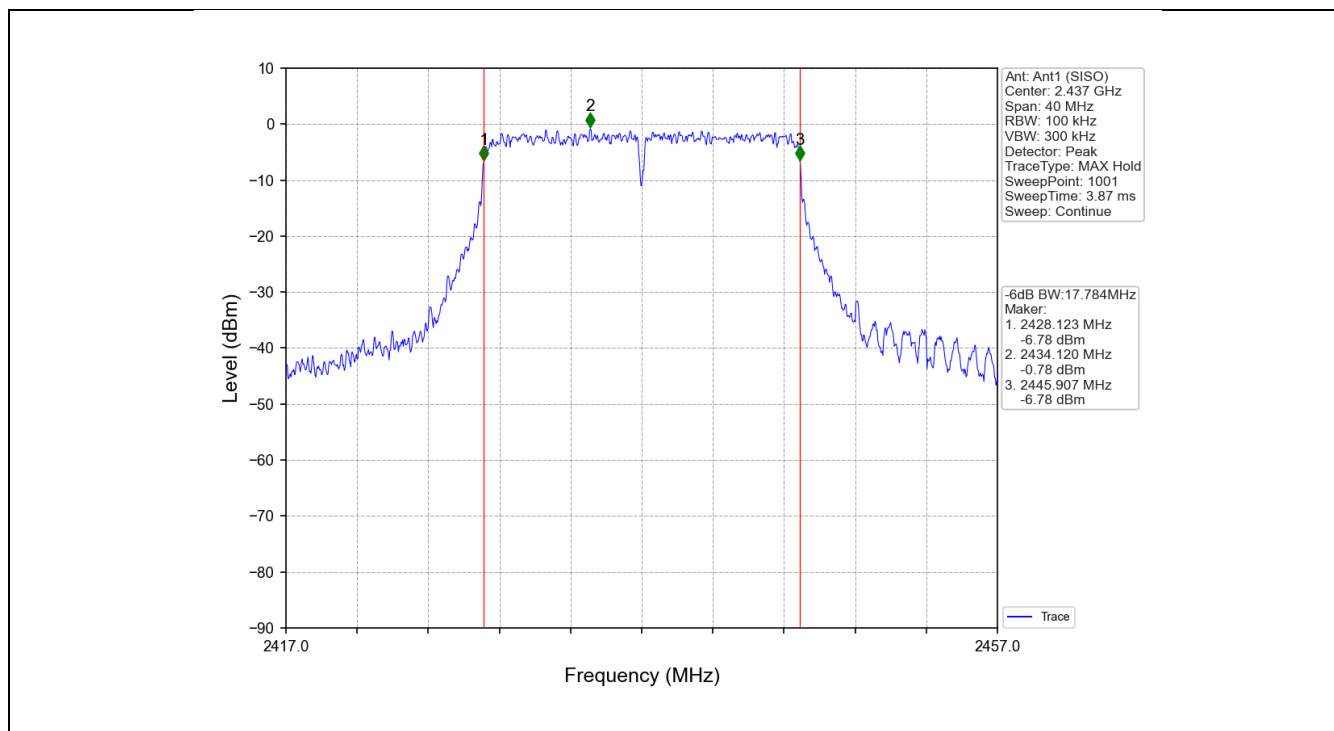
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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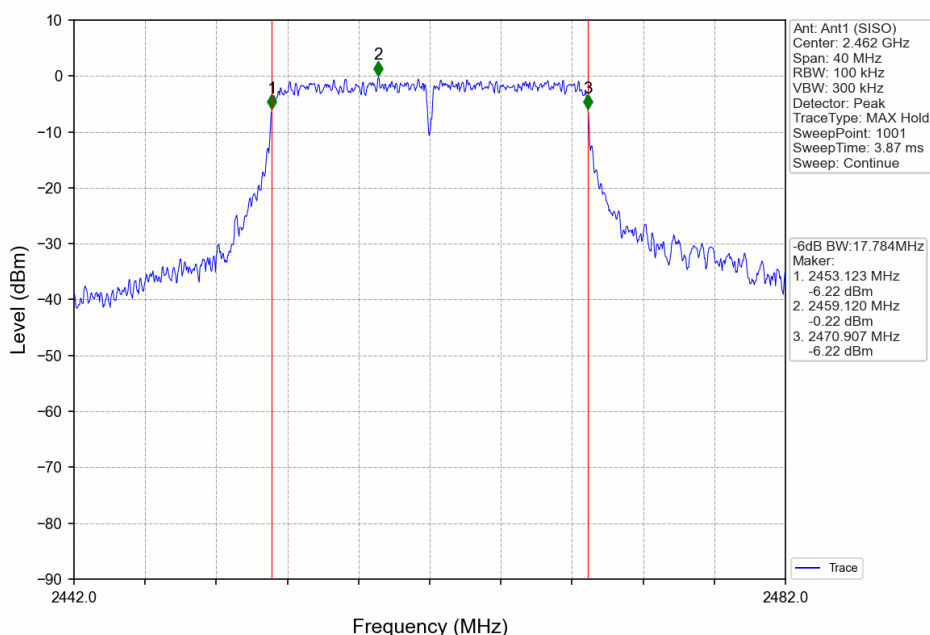
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



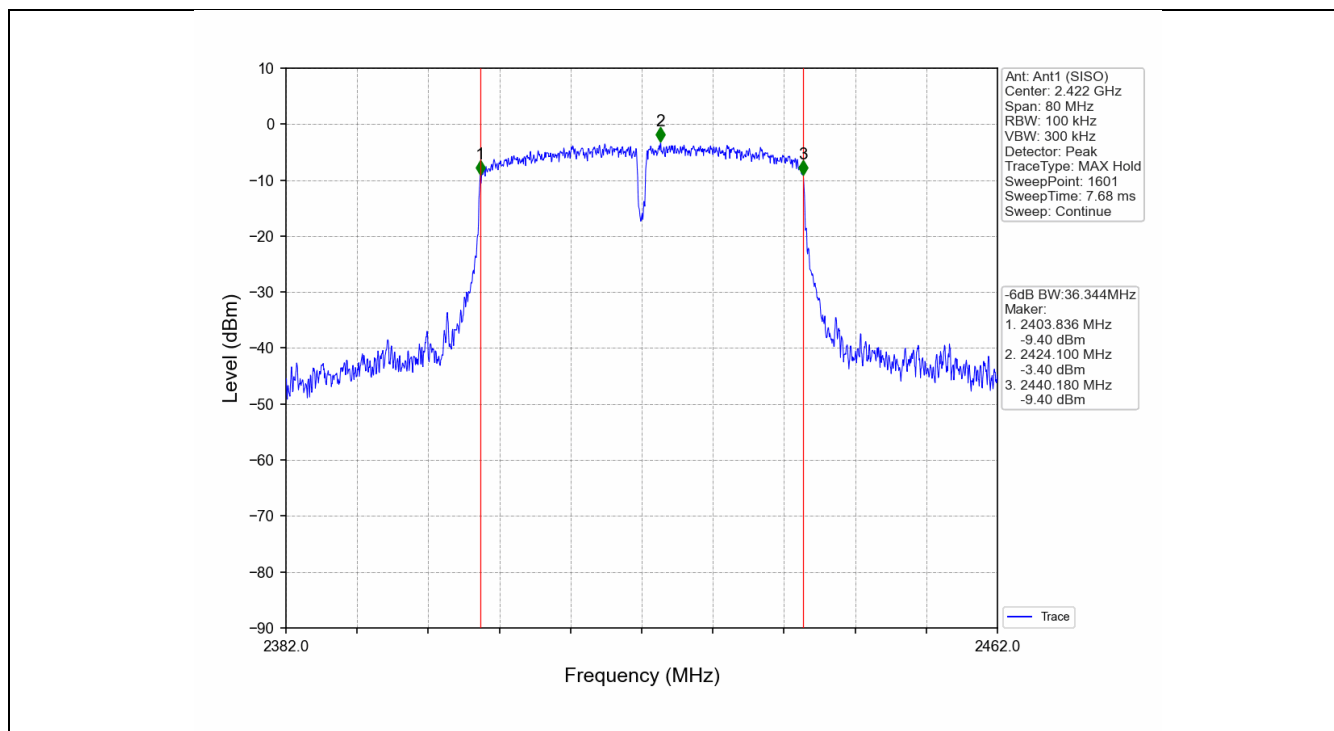
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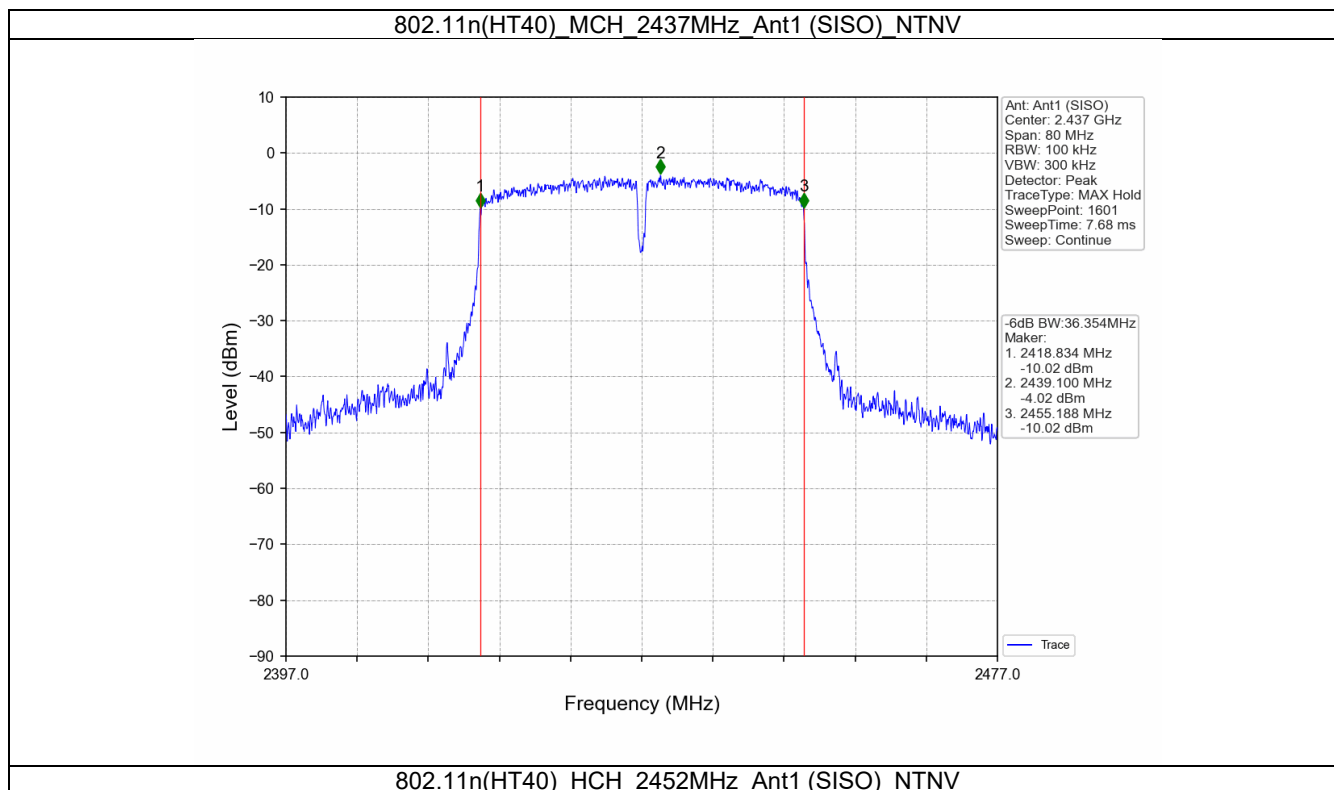
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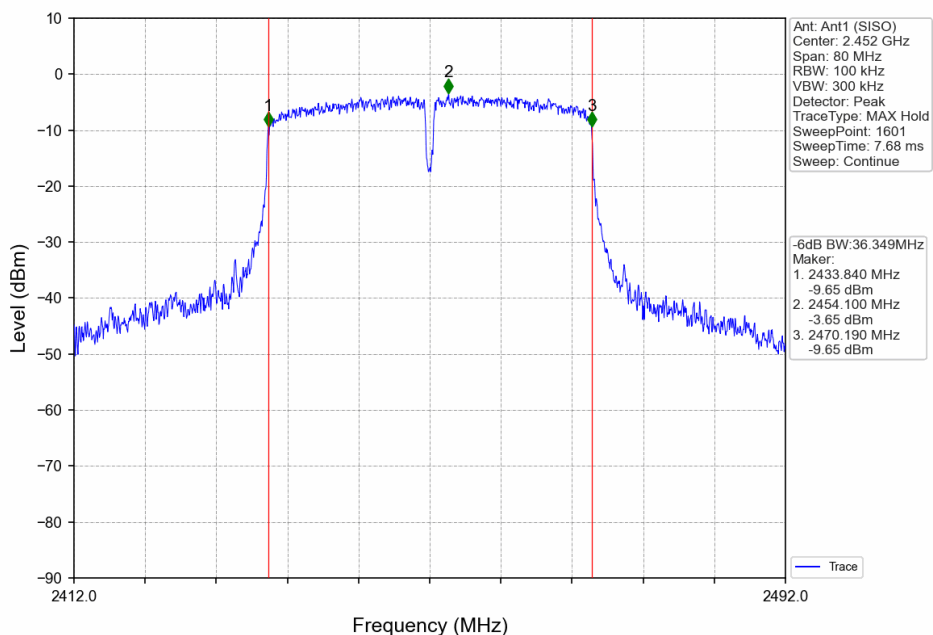
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	19.70	<=30	Pass
		2437	19.32	<=30	Pass
		2462	19.96	<=30	Pass
802.11g	SISO	2412	21.27	<=30	Pass
		2437	20.88	<=30	Pass
		2462	21.52	<=30	Pass
802.11n (HT20)	SISO	2412	21.44	<=30	Pass
		2437	21.06	<=30	Pass
		2462	21.62	<=30	Pass
802.11n (HT40)	SISO	2422	21.20	<=30	Pass
		2437	20.57	<=30	Pass
		2452	20.97	<=30	Pass

Note1: Antenna Gain: Ant1: -2.10dBi;

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-12.70	<=8	Pass
		2437	-13.01	<=8	Pass
		2462	-12.35	<=8	Pass
802.11g	SISO	2412	-14.86	<=8	Pass
		2437	-15.05	<=8	Pass
		2462	-14.41	<=8	Pass
802.11n (HT20)	SISO	2412	-14.29	<=8	Pass
		2437	-14.89	<=8	Pass
		2462	-13.96	<=8	Pass
802.11n (HT40)	SISO	2422	-16.22	<=8	Pass
		2437	-14.86	<=8	Pass
		2452	-16.13	<=8	Pass

Note1: Antenna Gain: Ant1: -2.10dBi;



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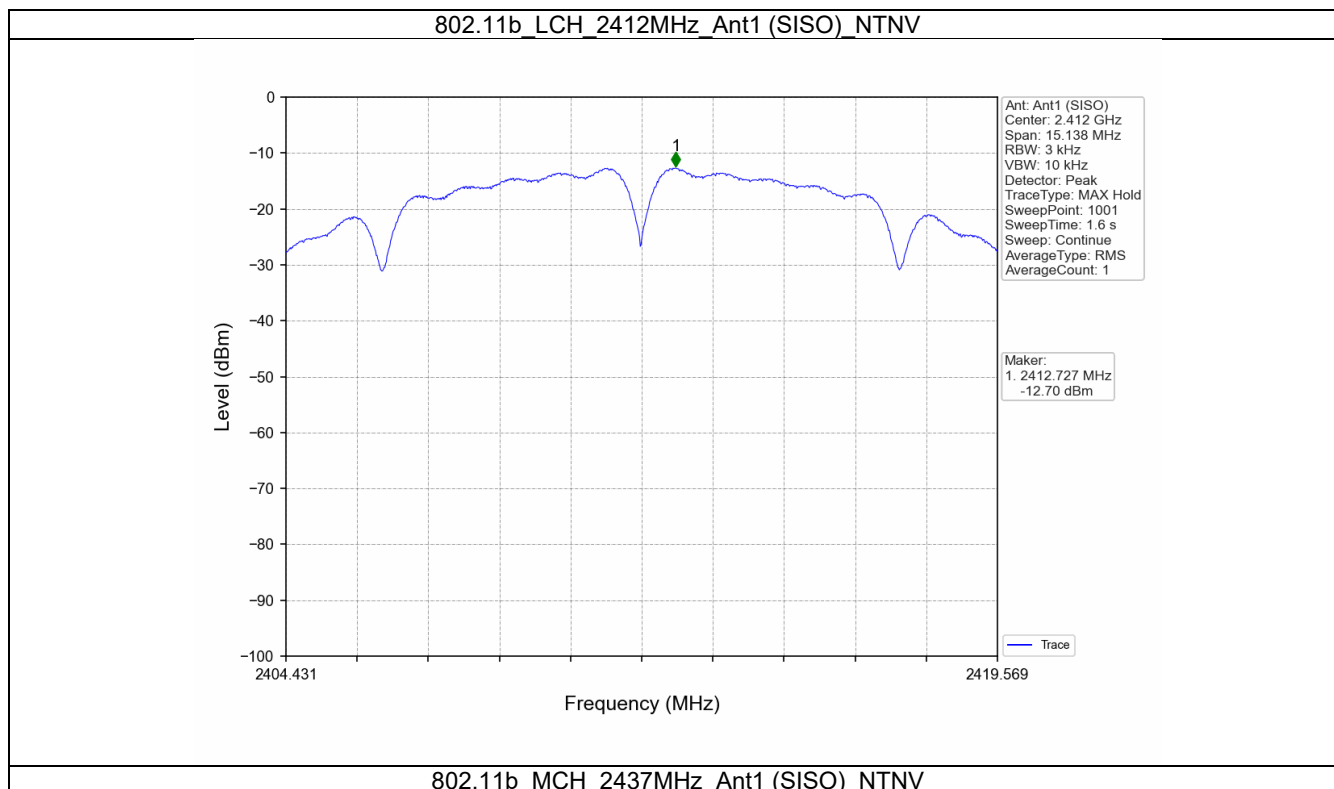
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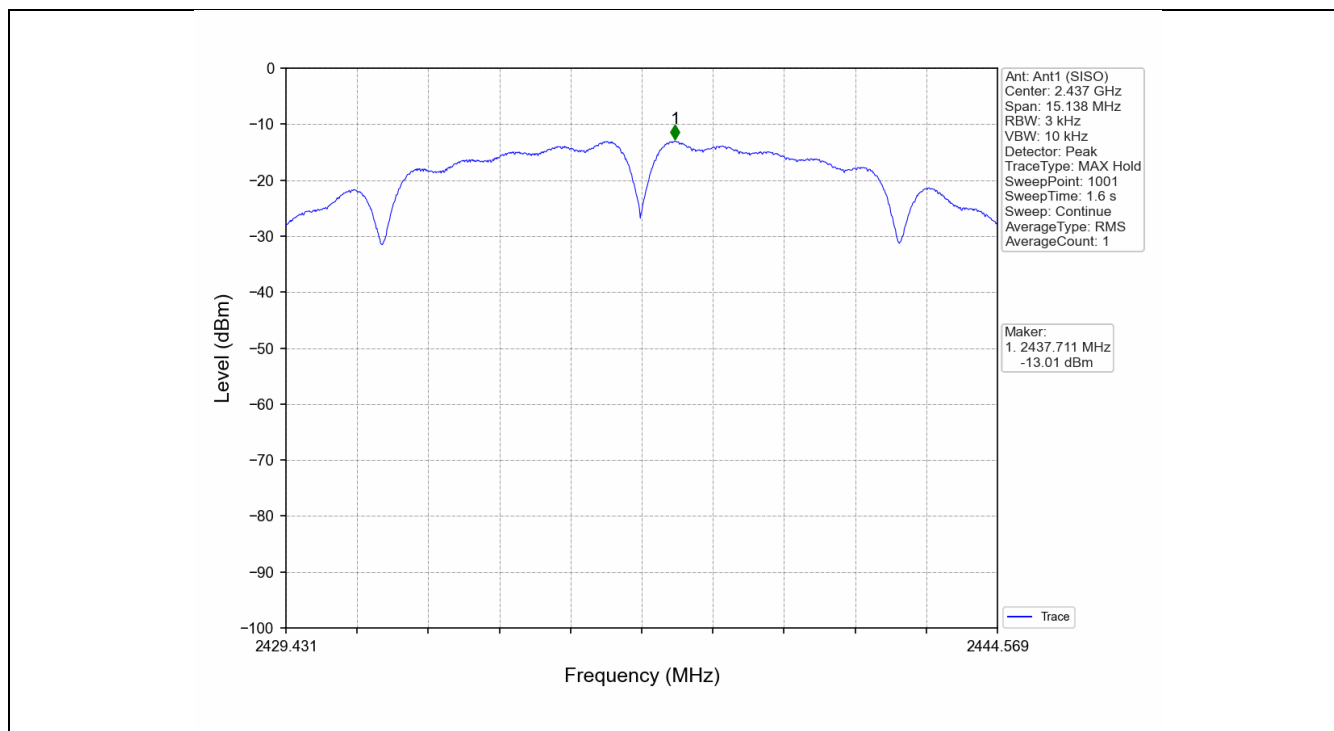
4.1.2 Test Graph



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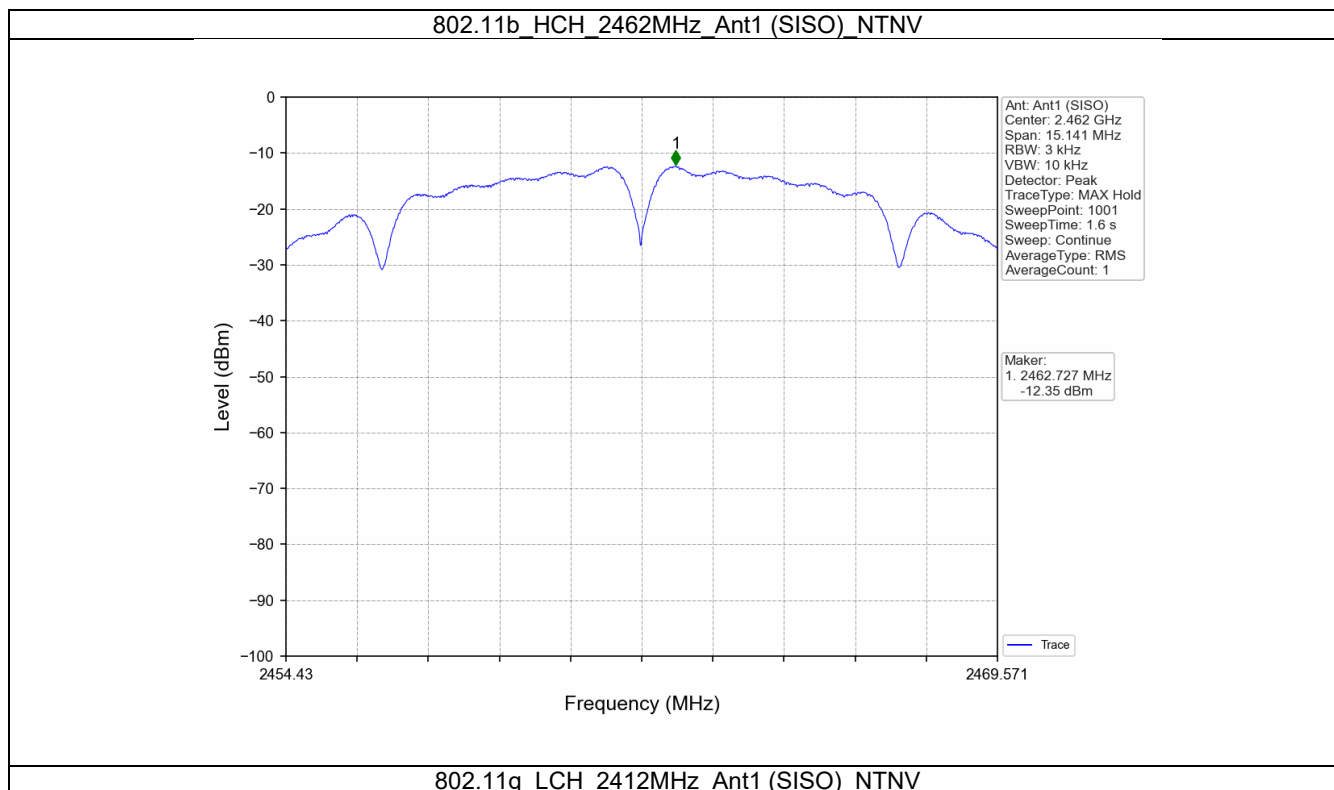


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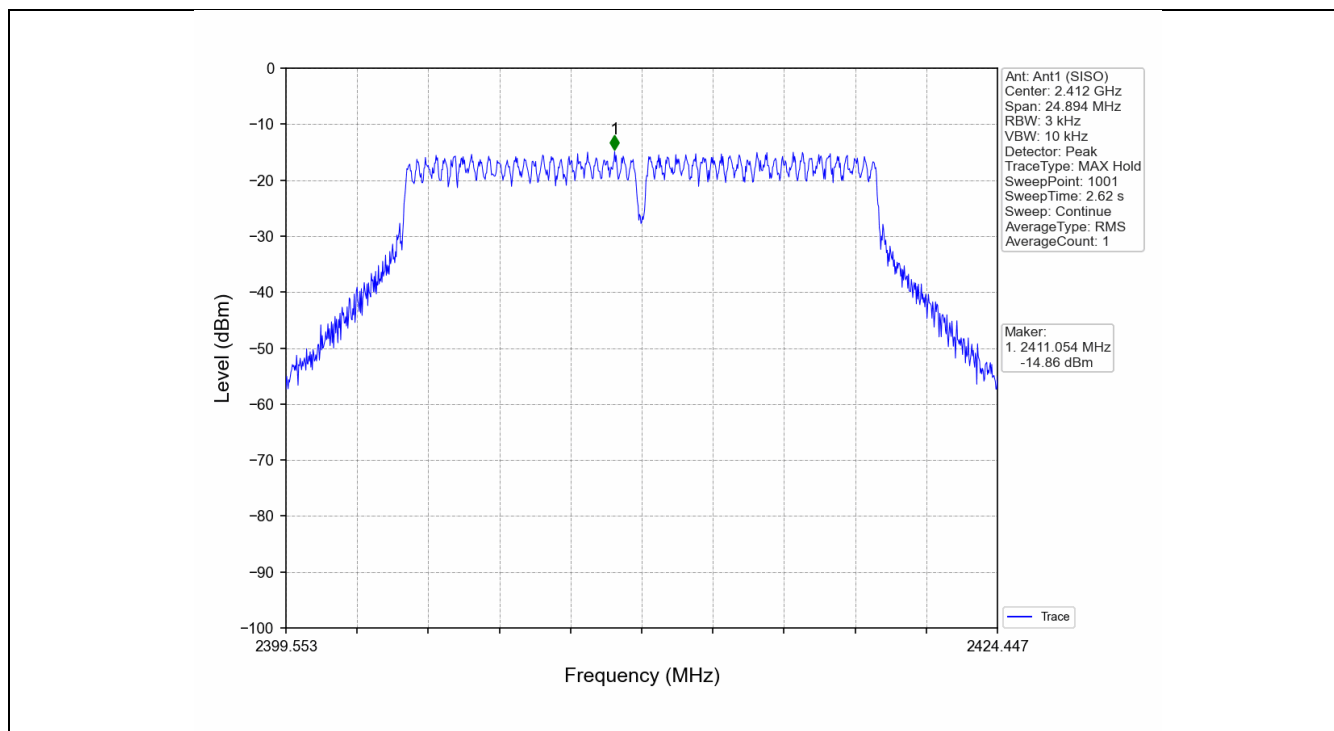


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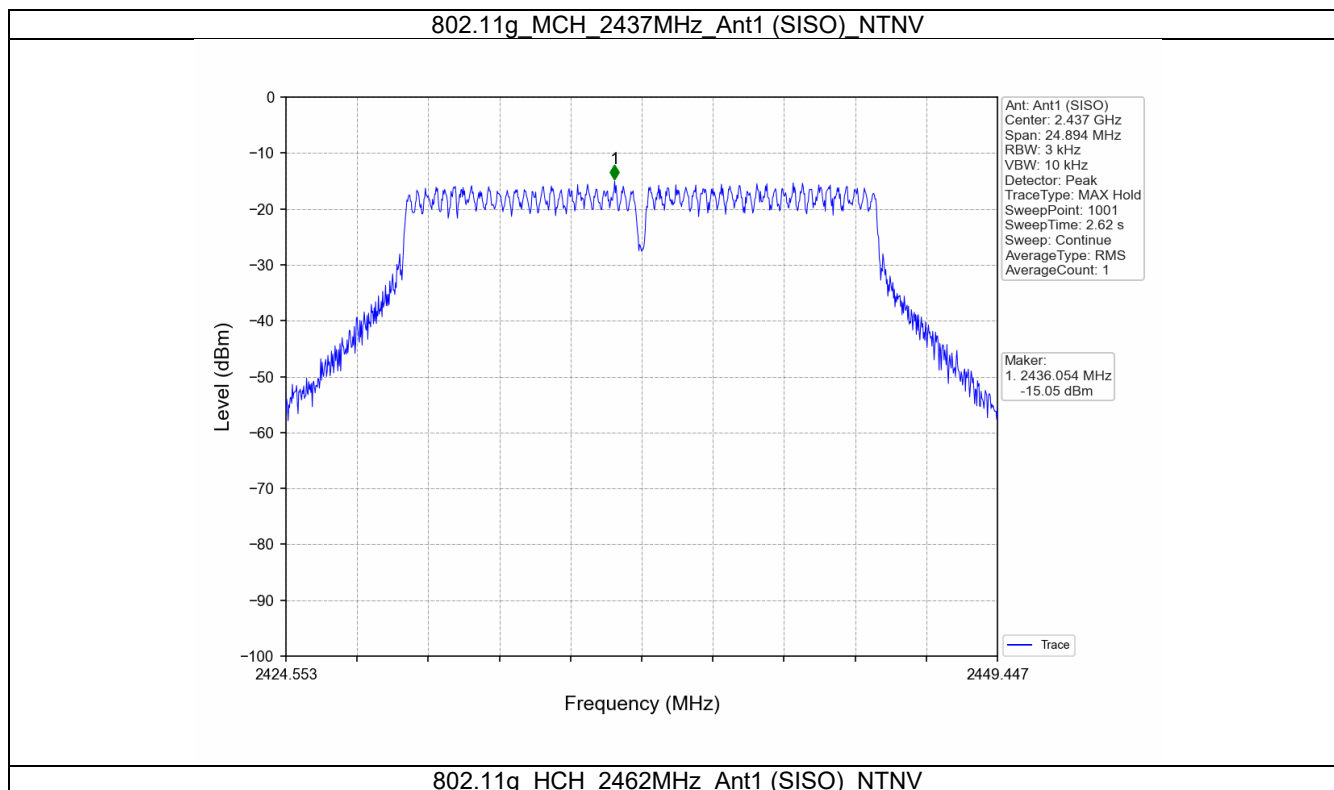


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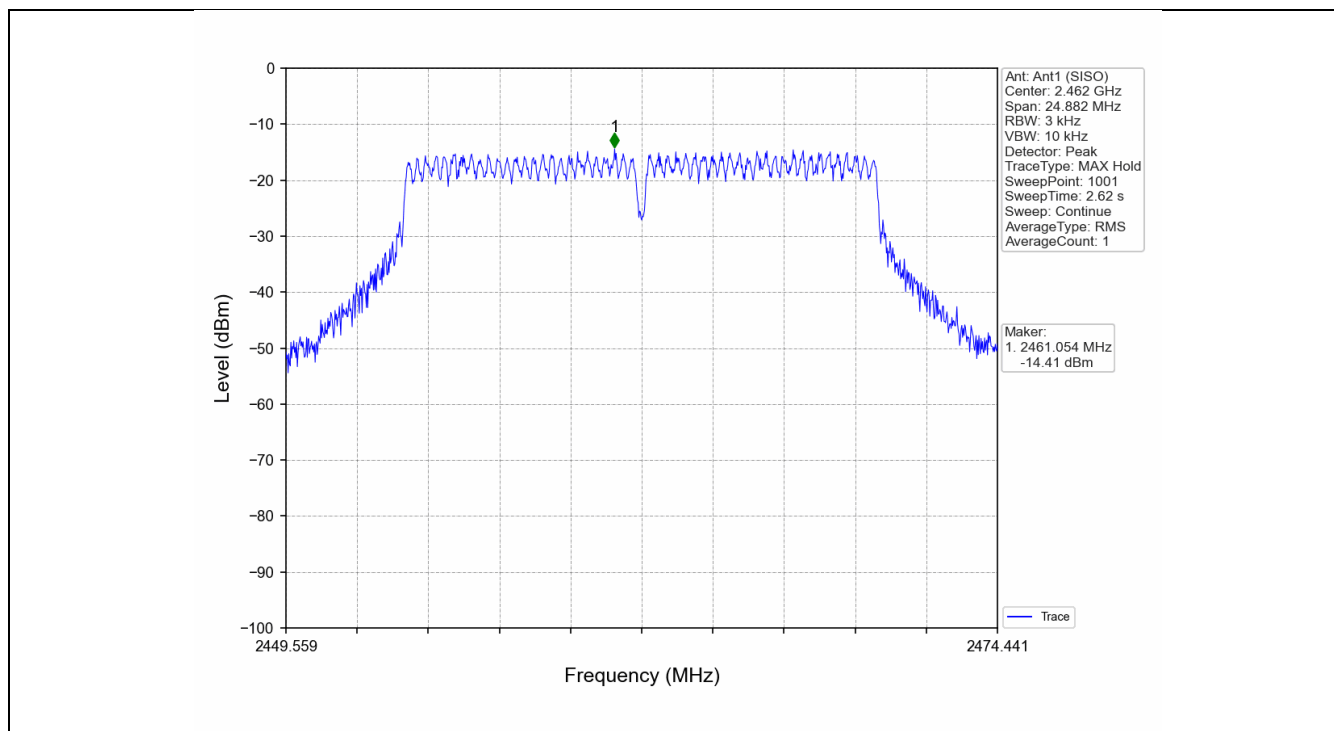


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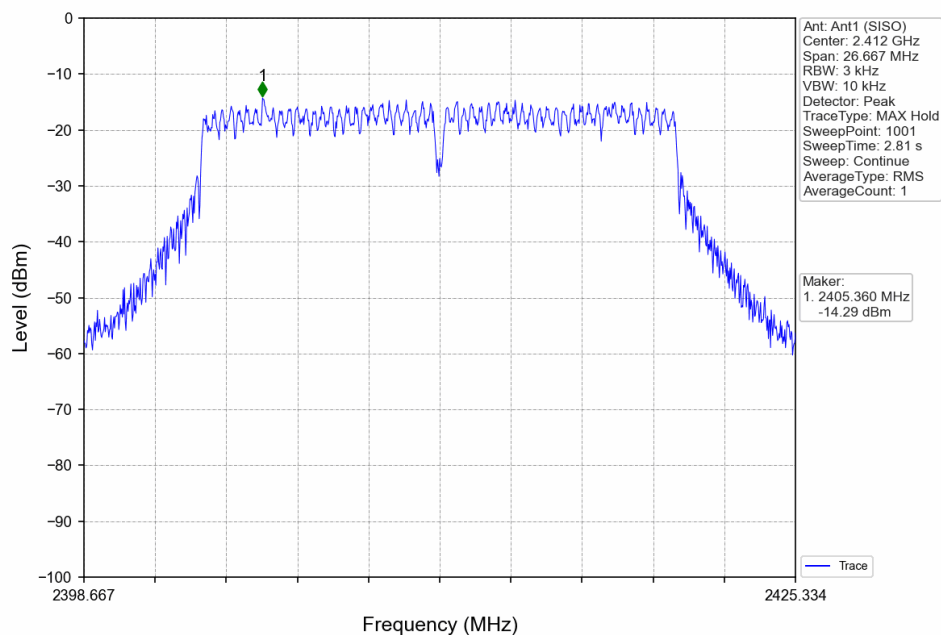
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

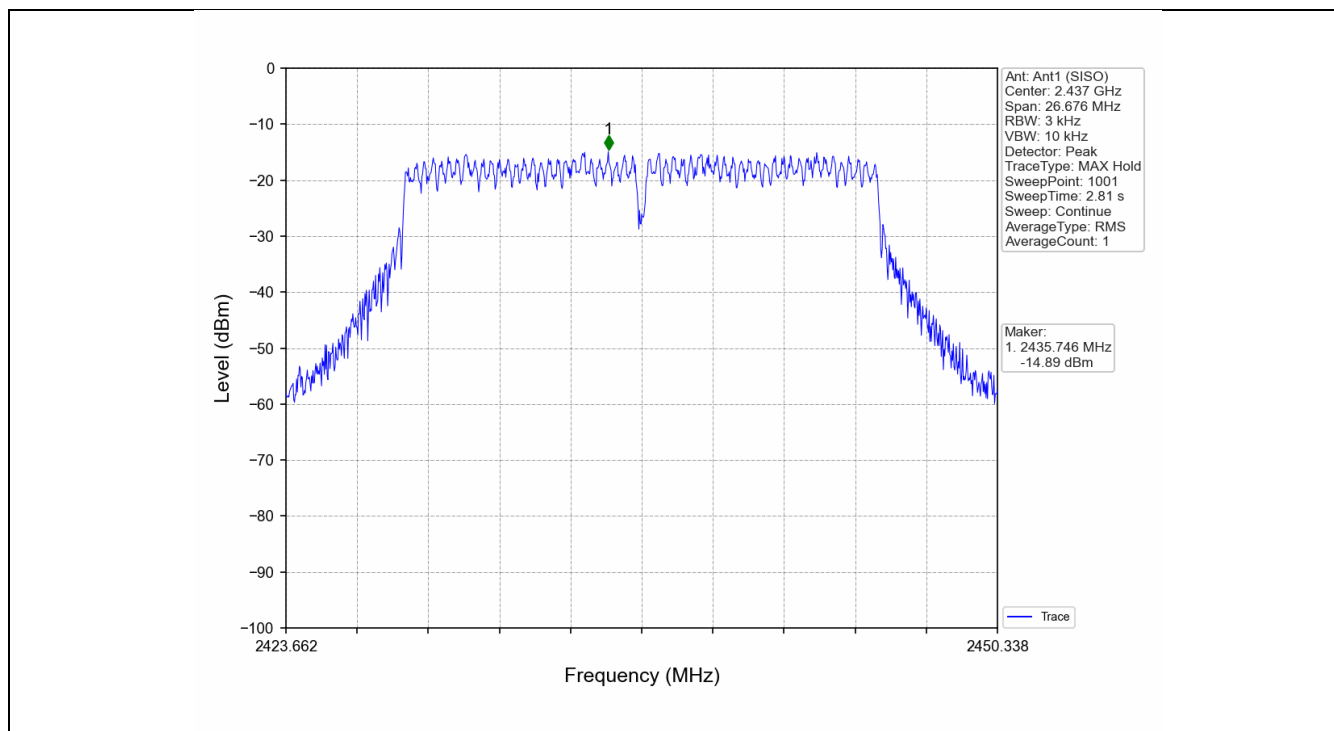


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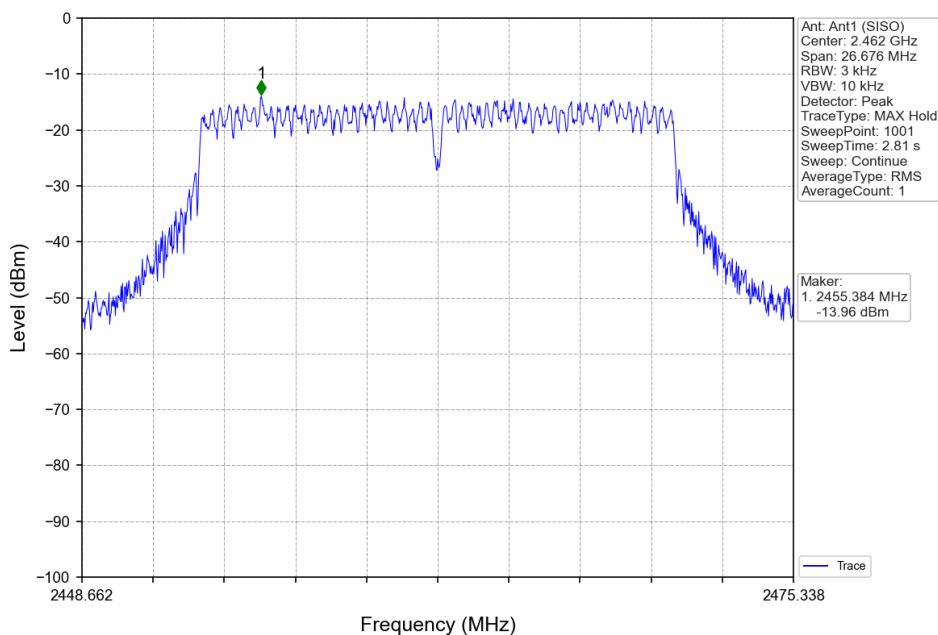
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

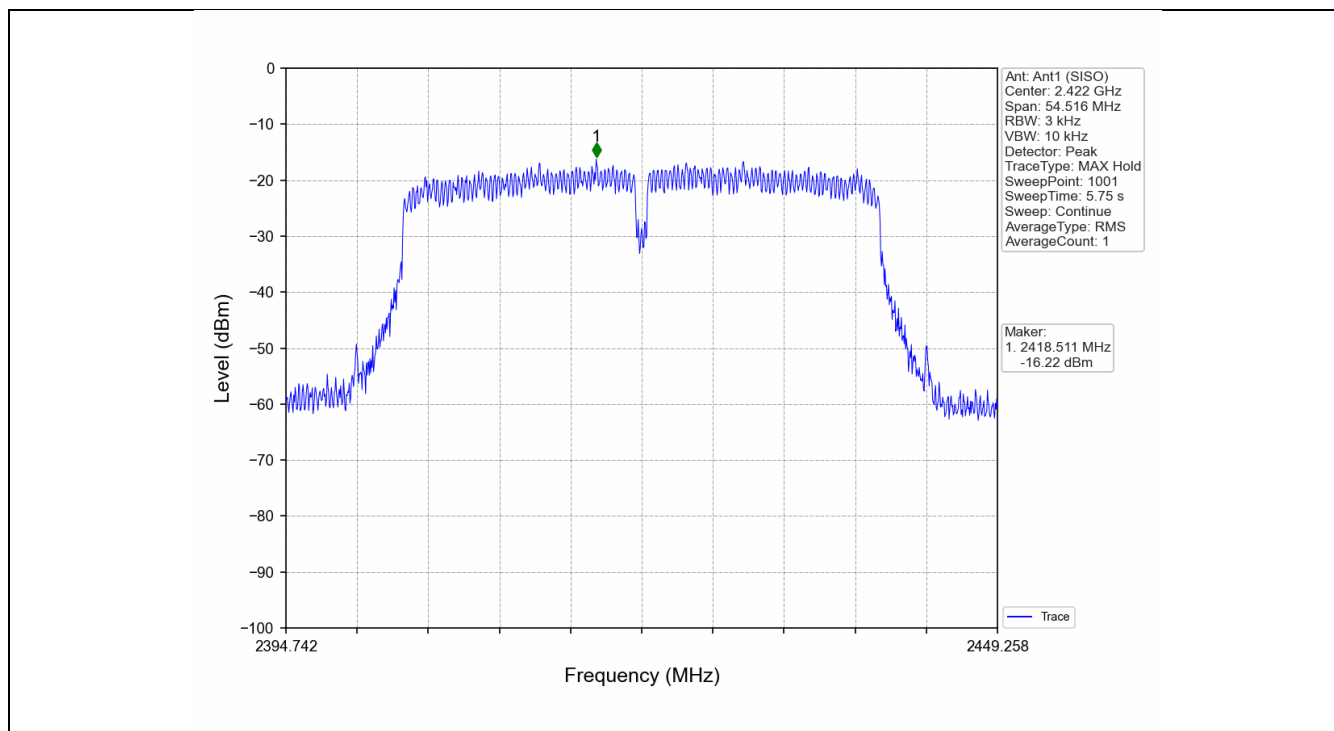


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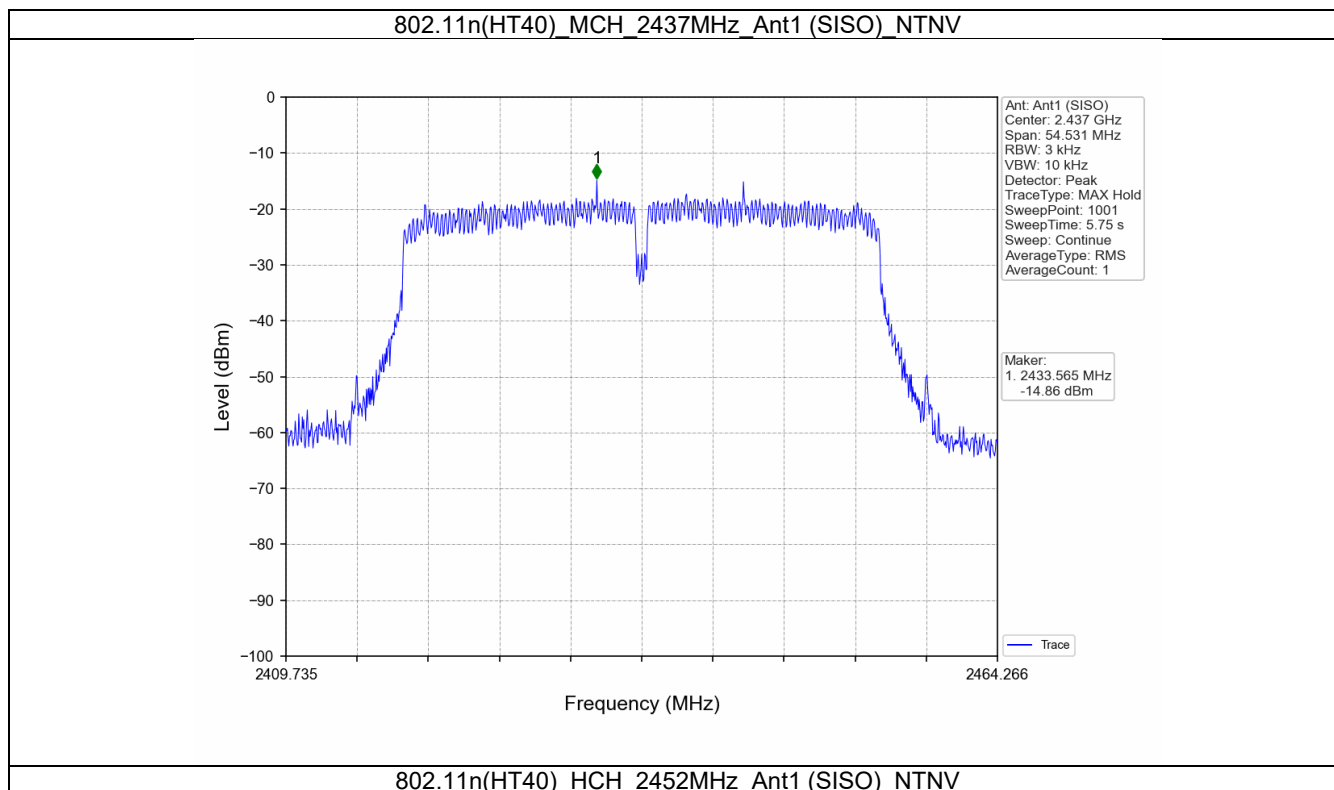


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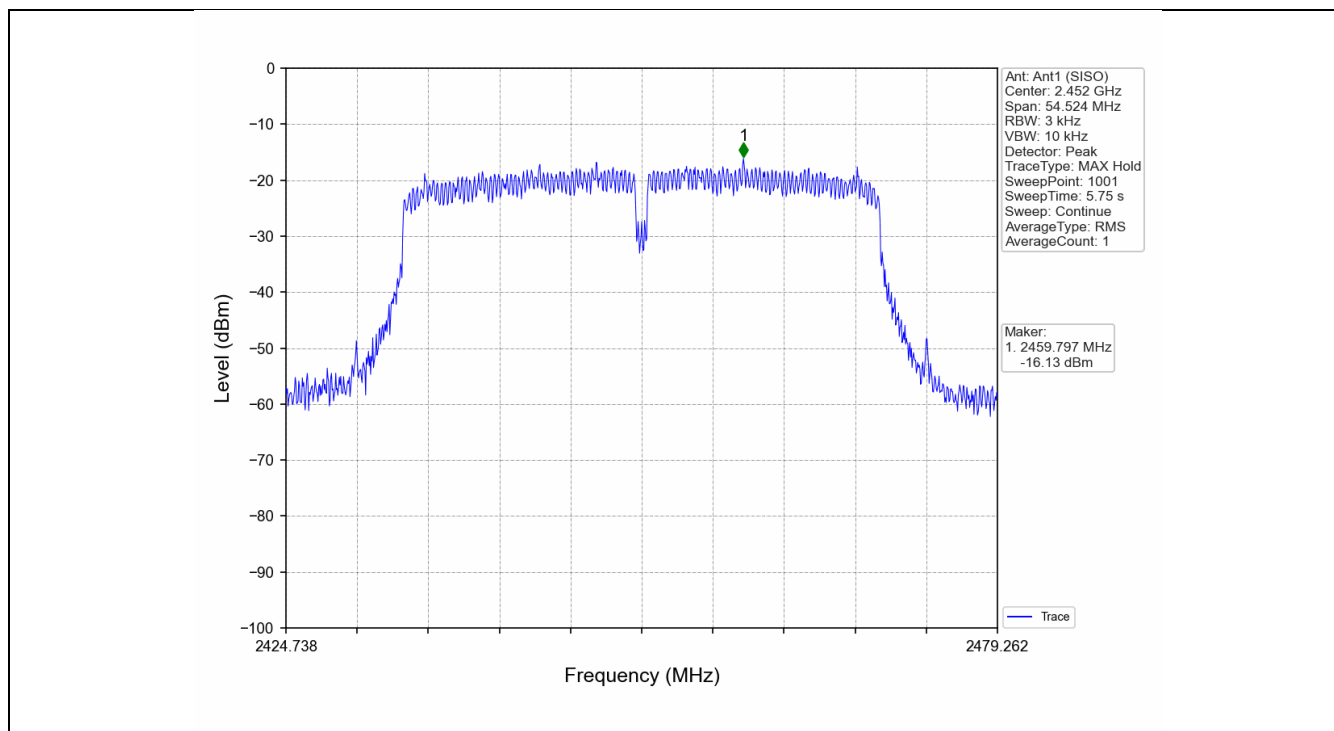


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	7.16
		2437	1	6.79
		2462	1	7.40
802.11g	SISO	2412	1	-0.74
		2437	1	-1.12
		2462	1	-0.44
802.11n (HT20)	SISO	2412	1	-0.52
		2437	1	-0.94
		2462	1	-0.17
802.11n (HT40)	SISO	2422	1	-3.54
		2437	1	-4.14
		2452	1	-3.81

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

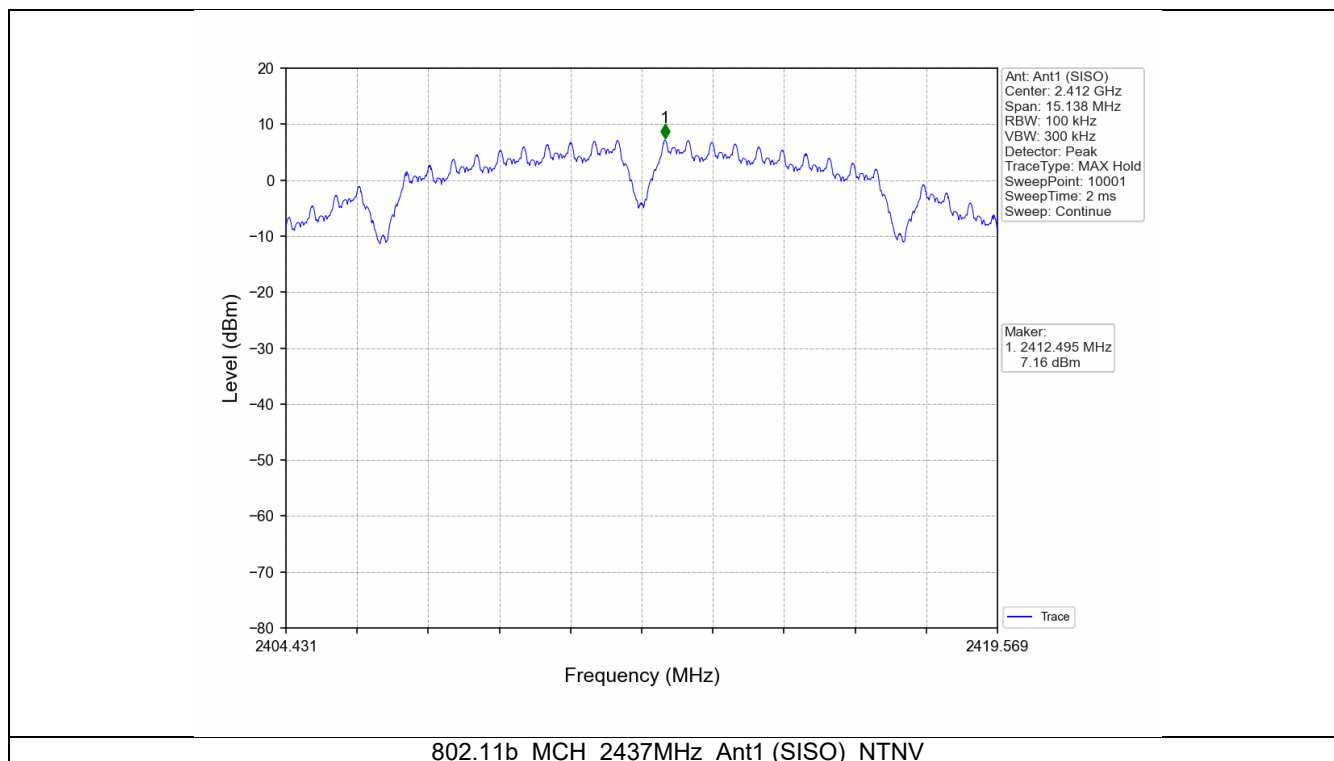
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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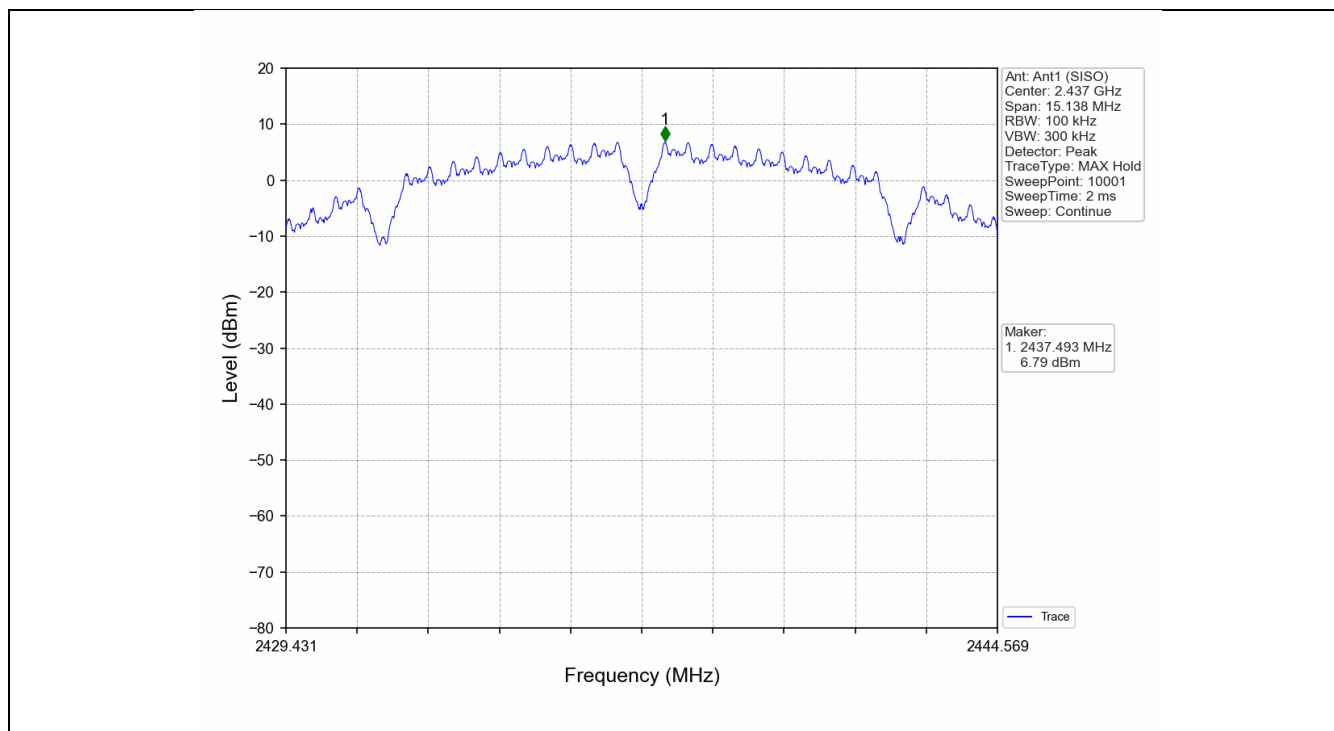


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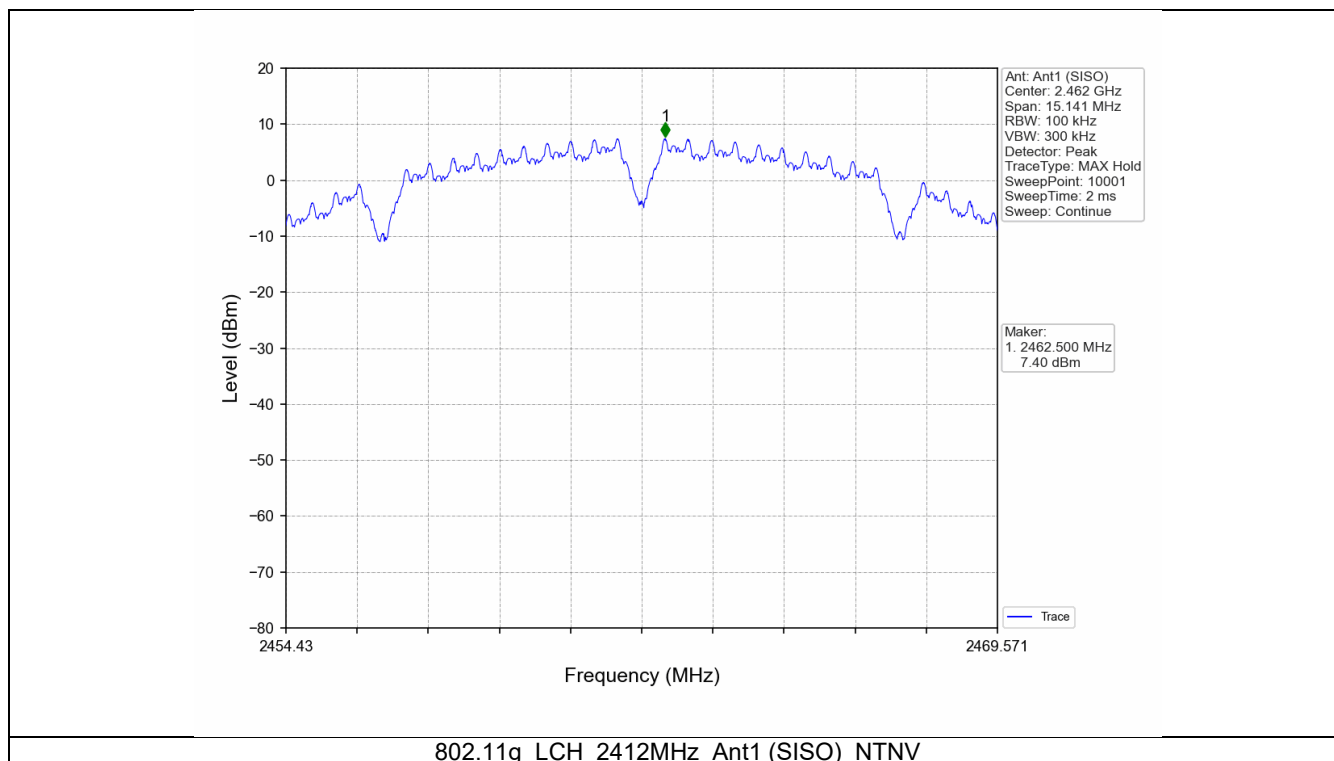
802.11b HCH 2462MHz Ant1 (SISO) NTV



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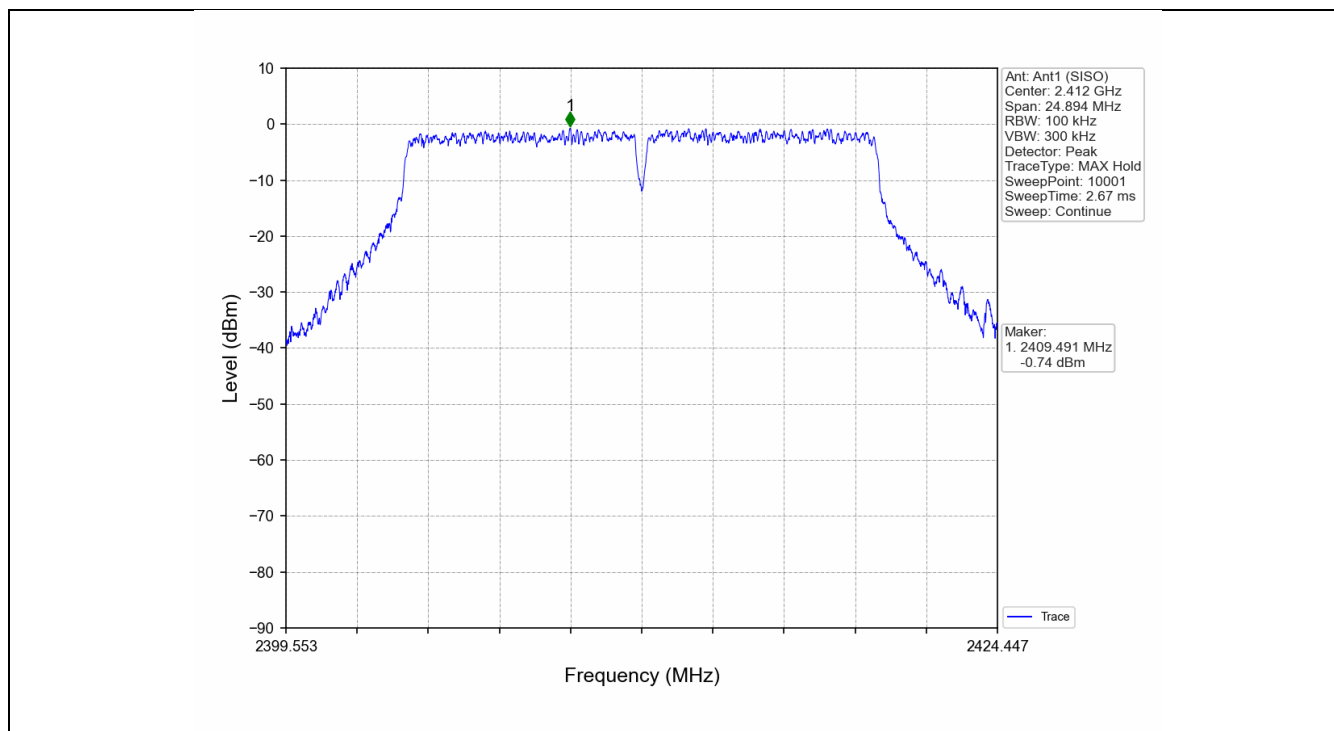


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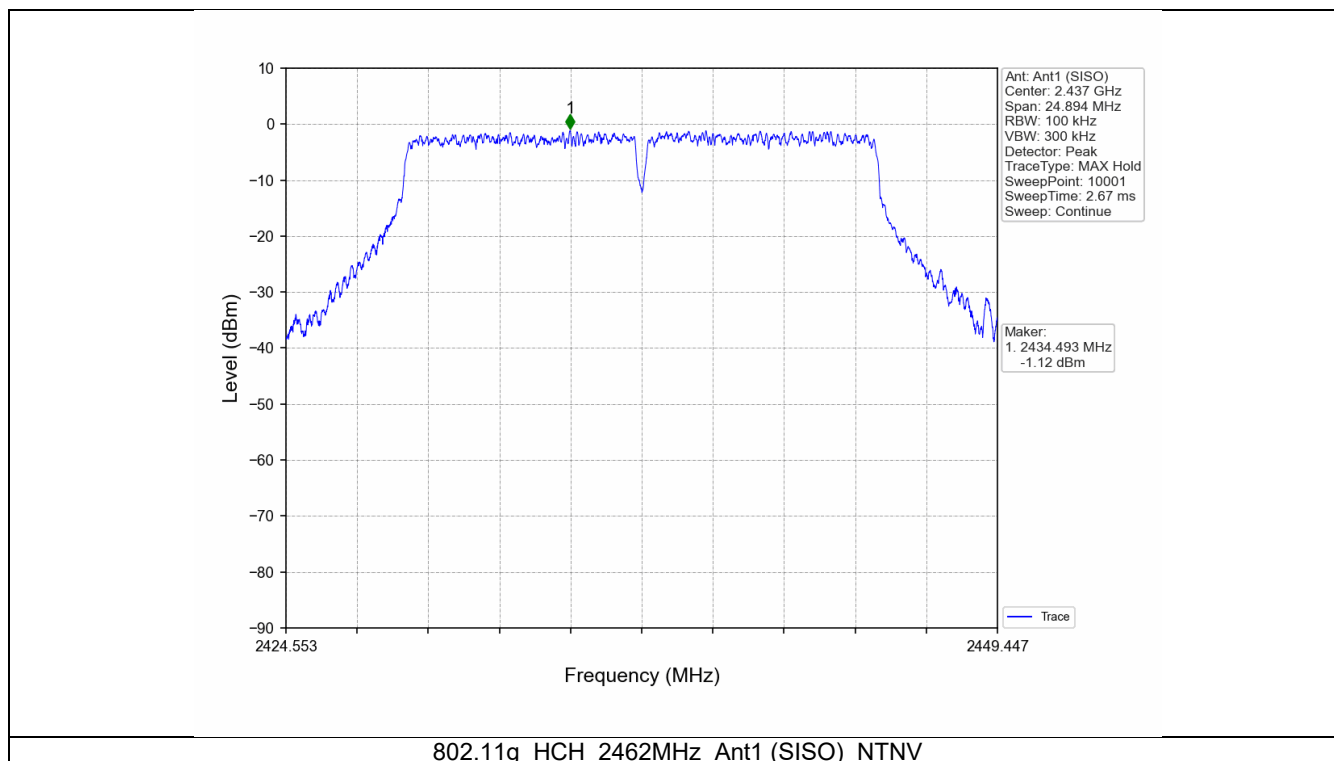


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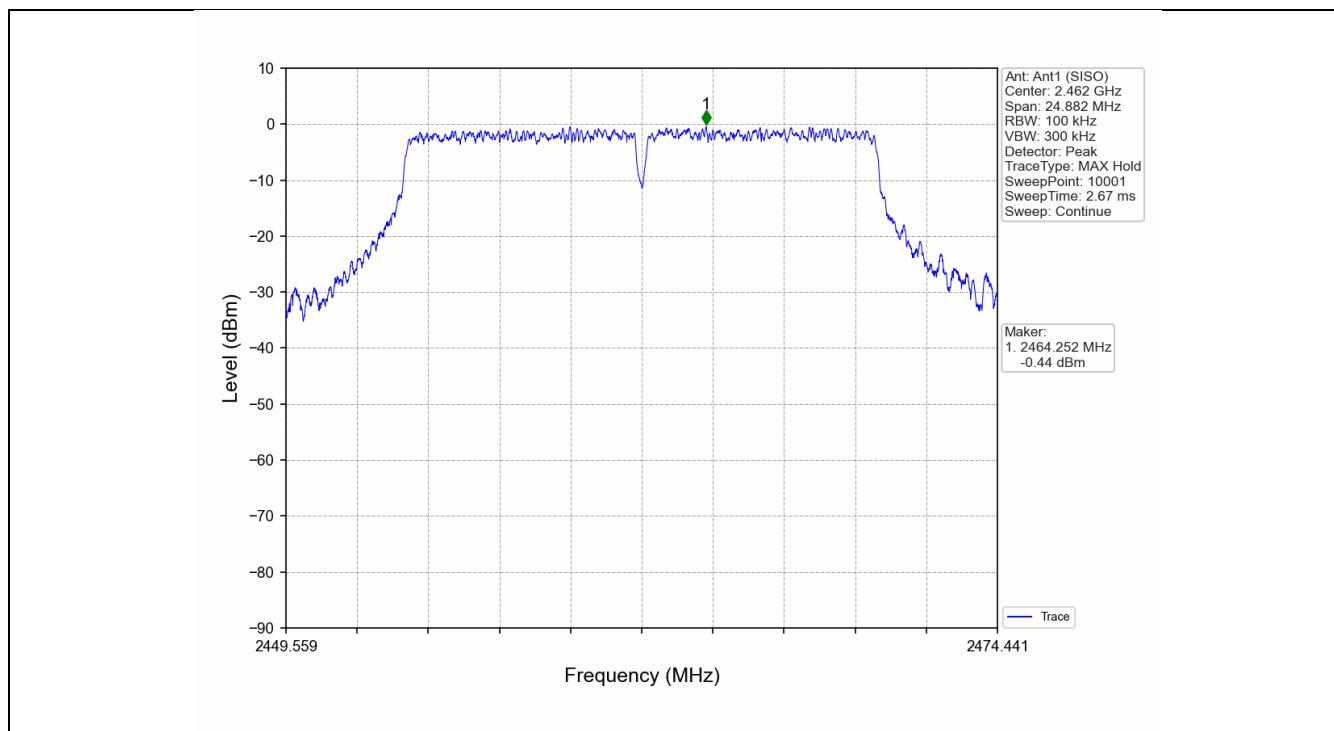


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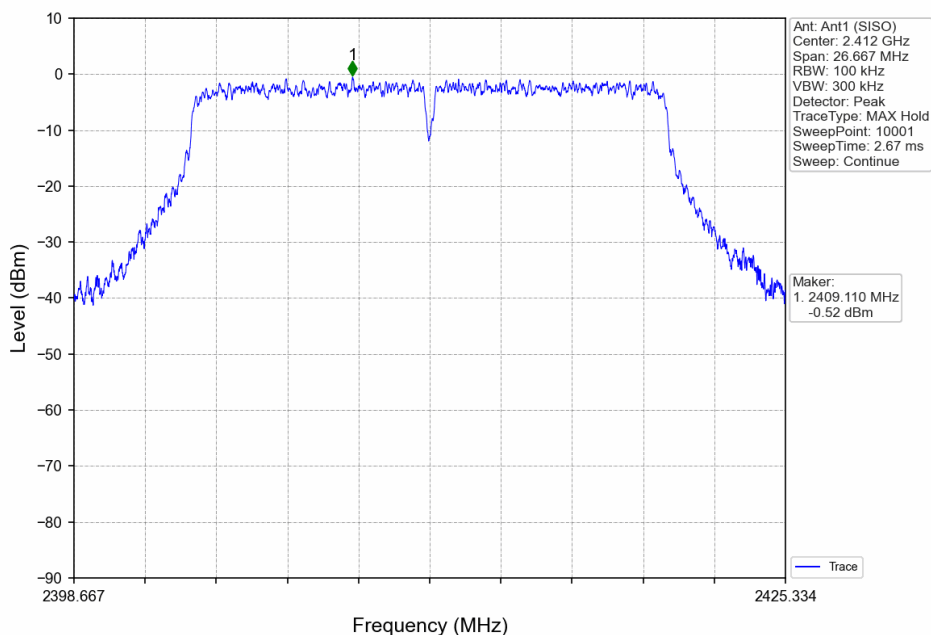
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



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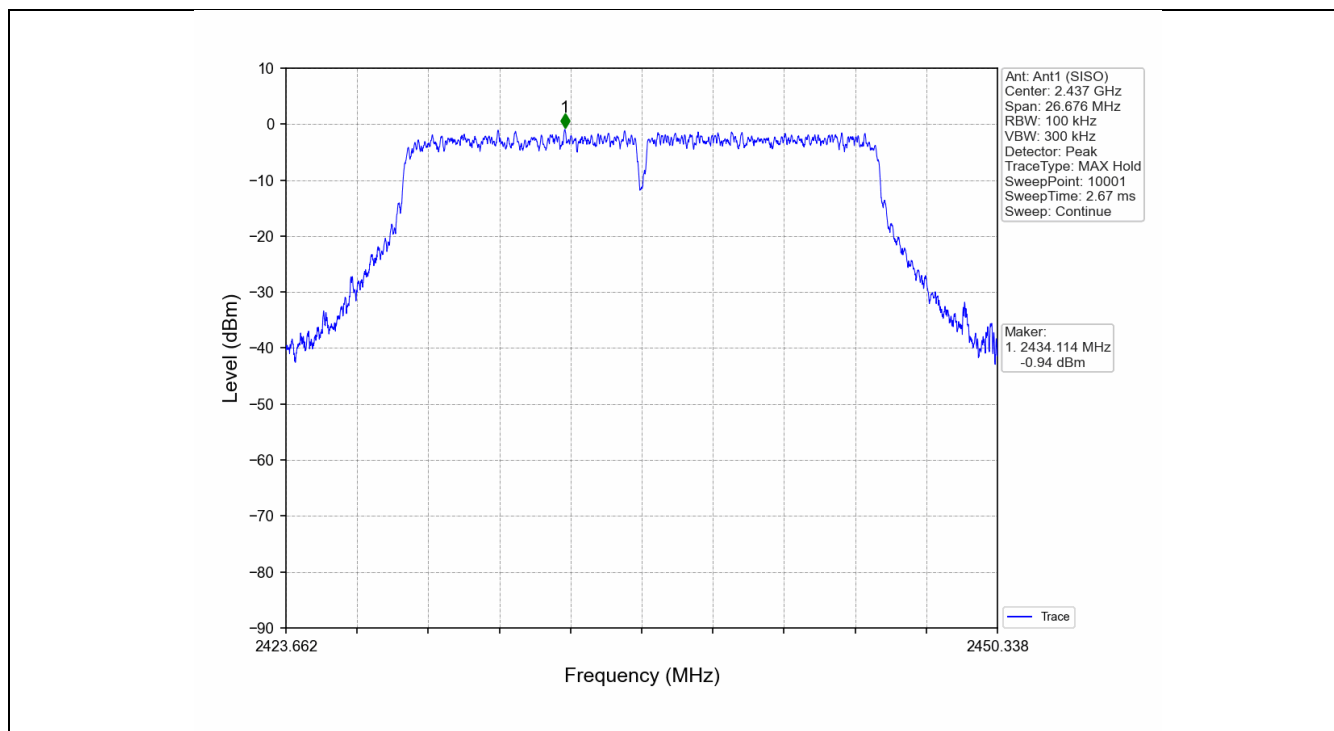
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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

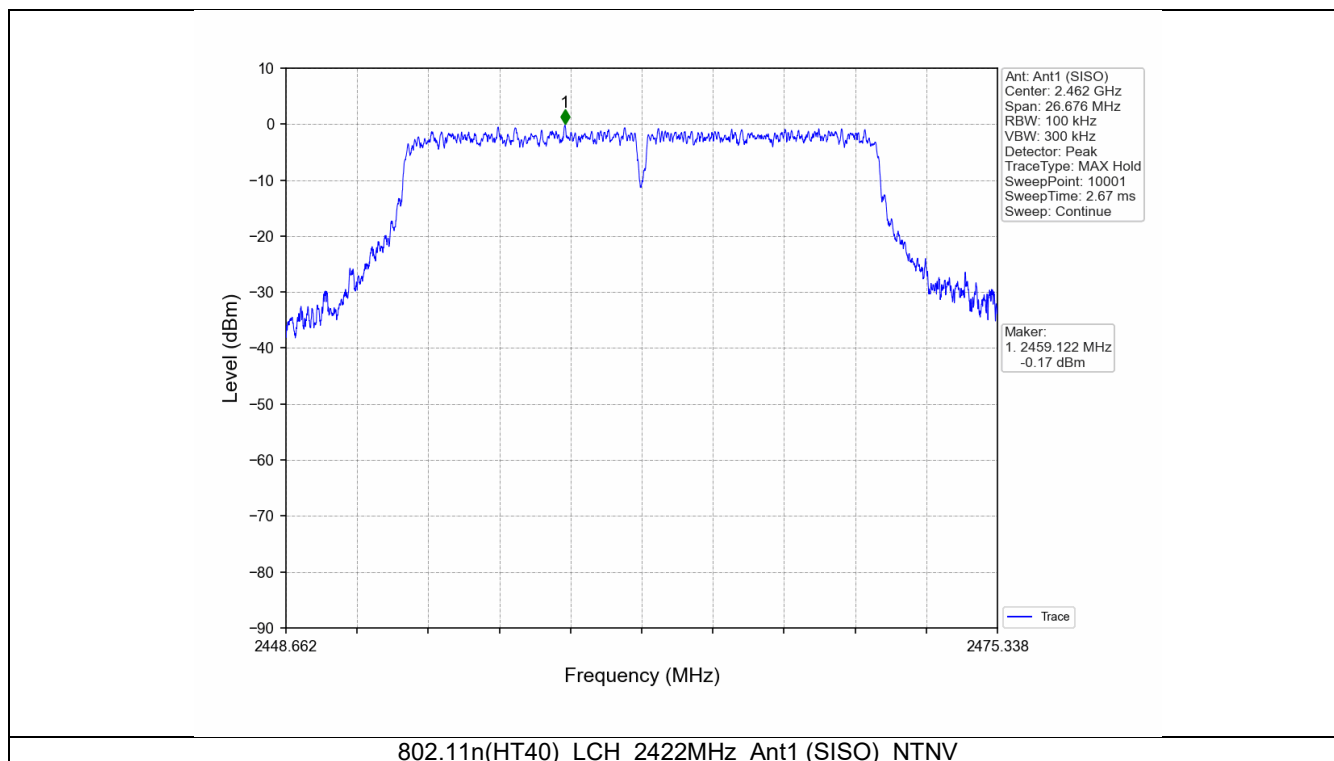


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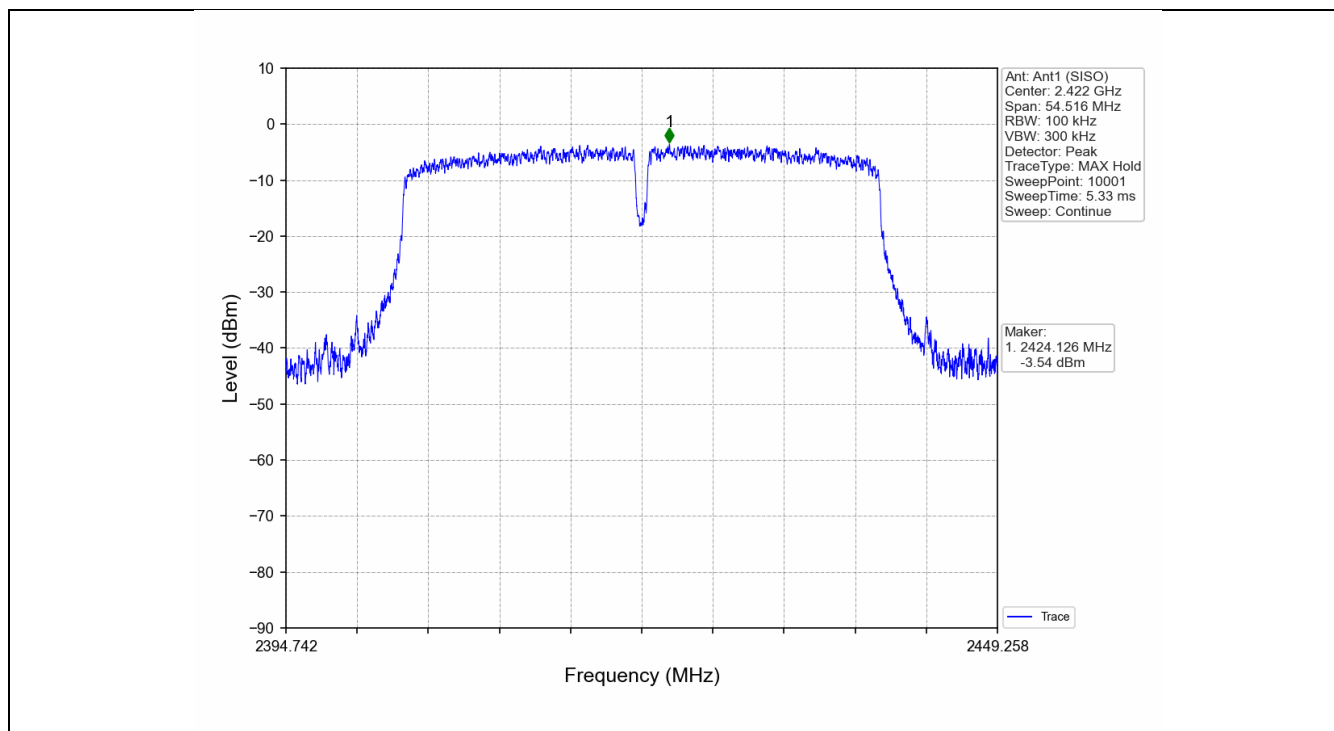


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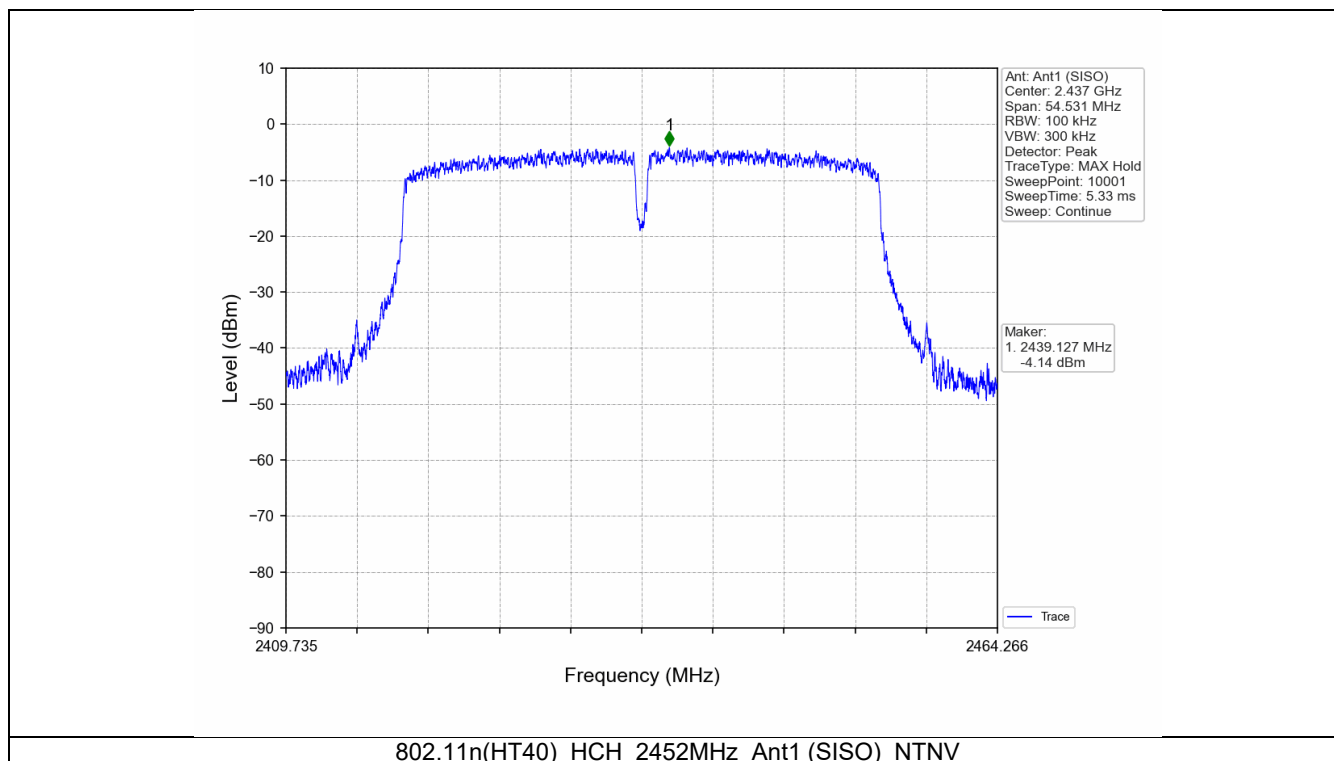
802.11n(HT40) MCH_2437MHz Ant1 (SISO) NTNV



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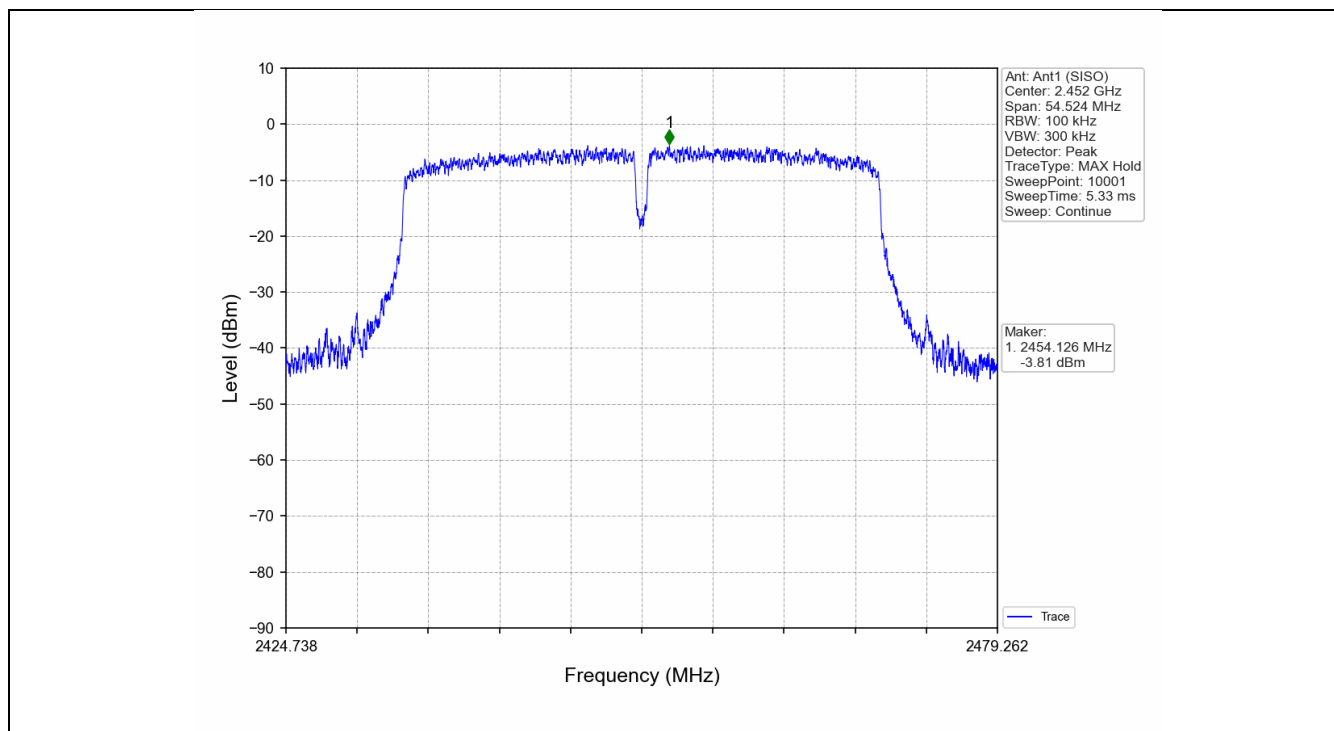


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.40	-12.60	Pass
		2437	1	7.40	-12.60	Pass
		2462	1	7.40	-12.60	Pass
802.11g	SISO	2412	1	-0.44	-20.44	Pass
		2437	1	-0.44	-20.44	Pass
		2462	1	-0.44	-20.44	Pass
802.11n (HT20)	SISO	2412	1	-0.17	-20.17	Pass
		2437	1	-0.17	-20.17	Pass
		2462	1	-0.17	-20.17	Pass
802.11n (HT40)	SISO	2422	1	-3.54	-23.54	Pass
		2437	1	-3.54	-23.54	Pass
		2452	1	-3.54	-23.54	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



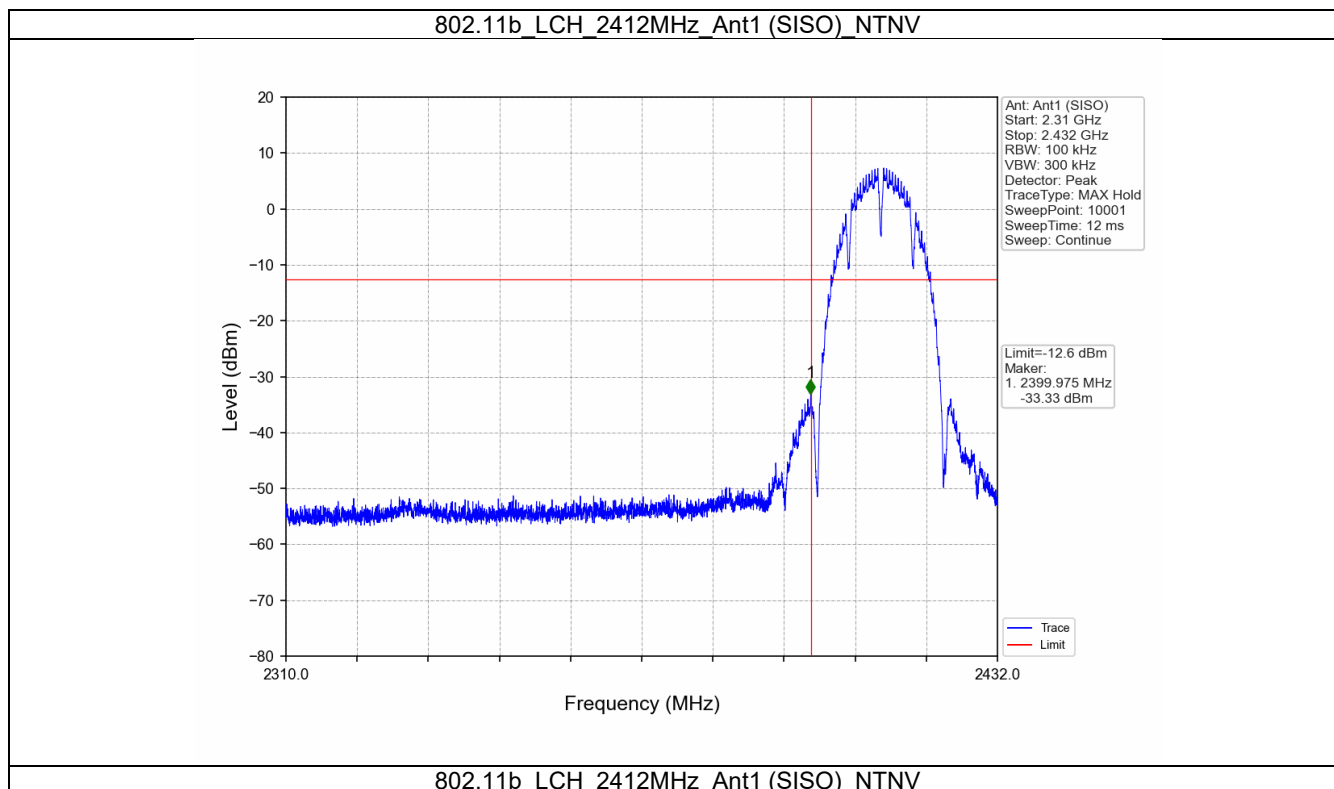
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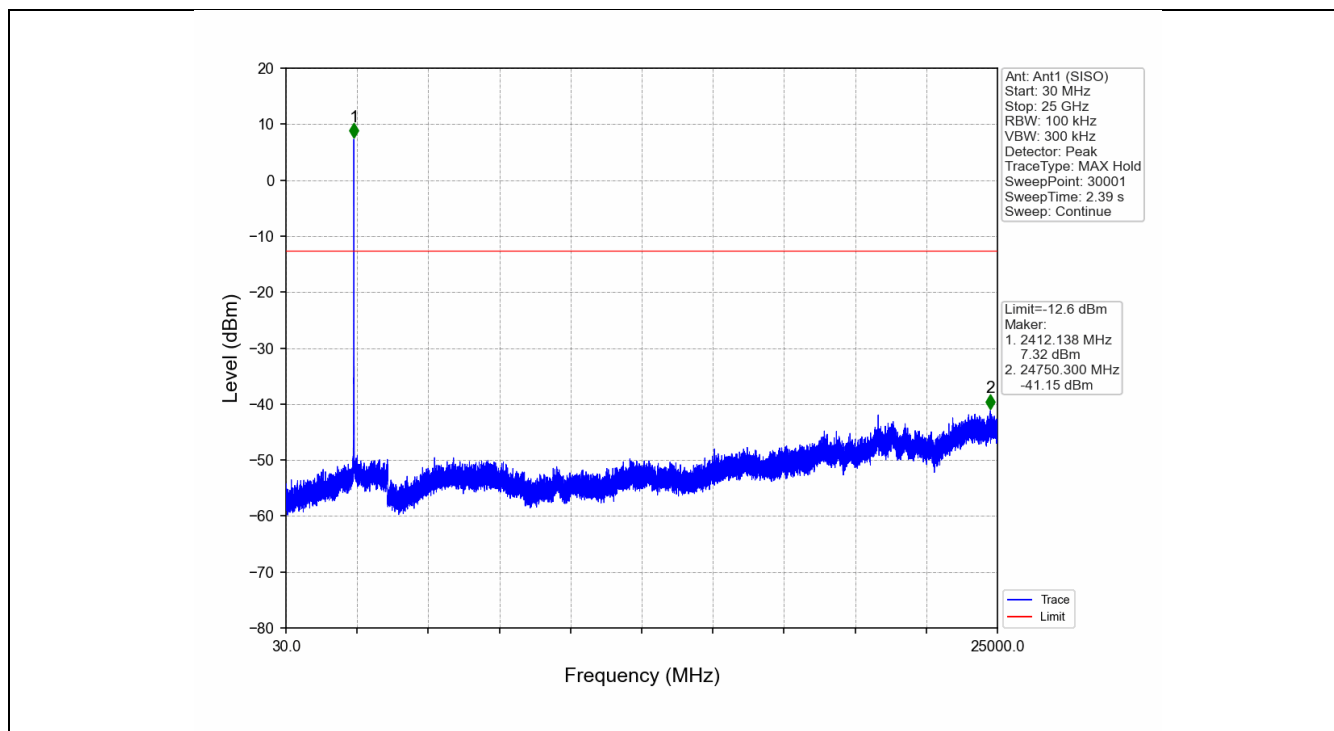
5.2.2 Test Graph



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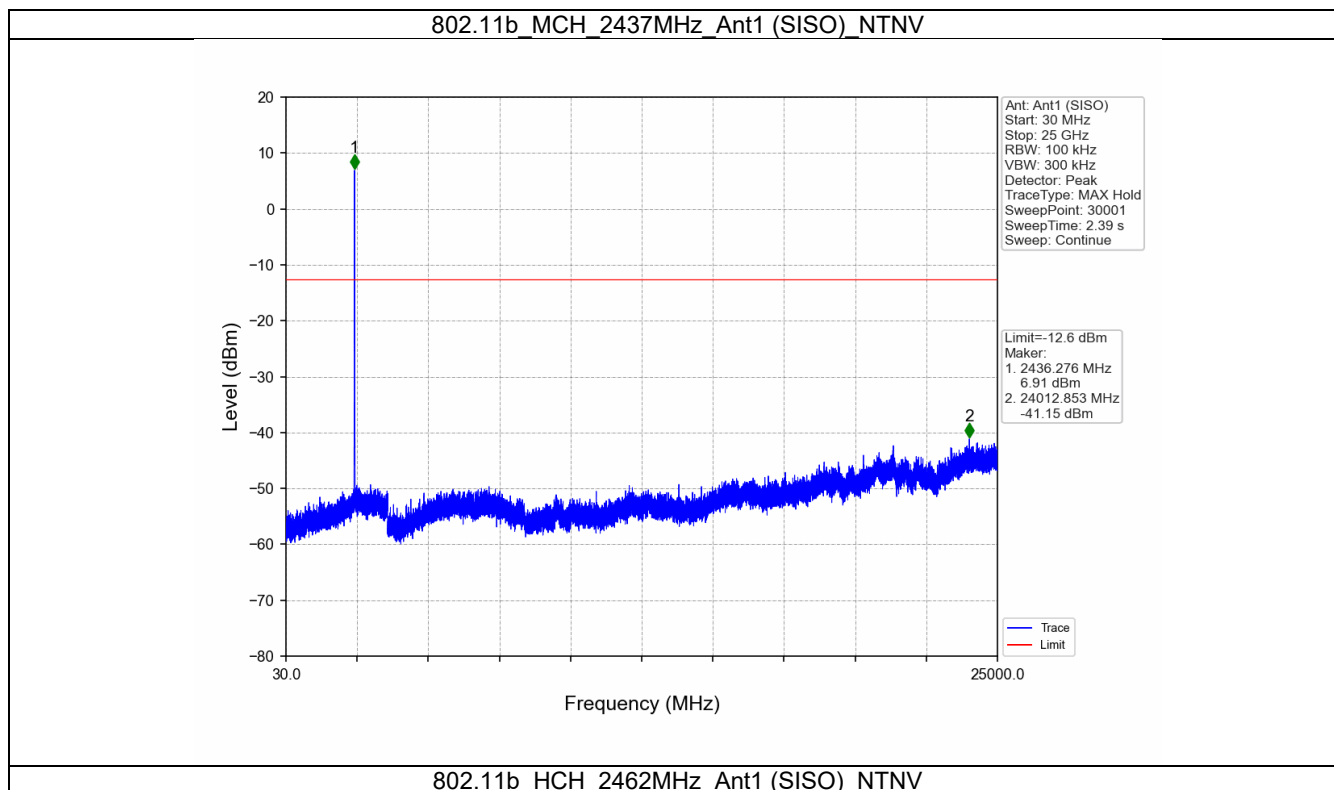
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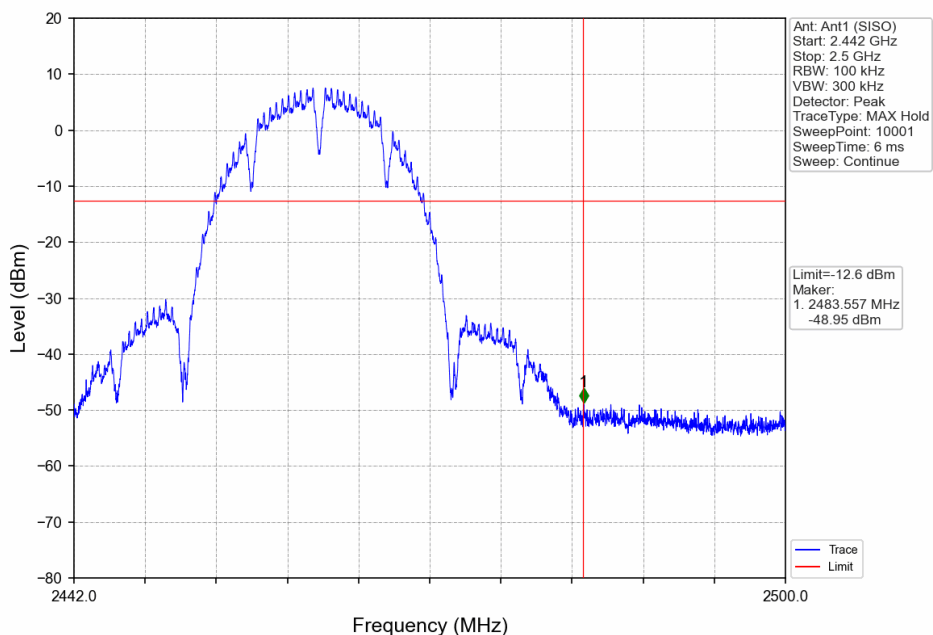


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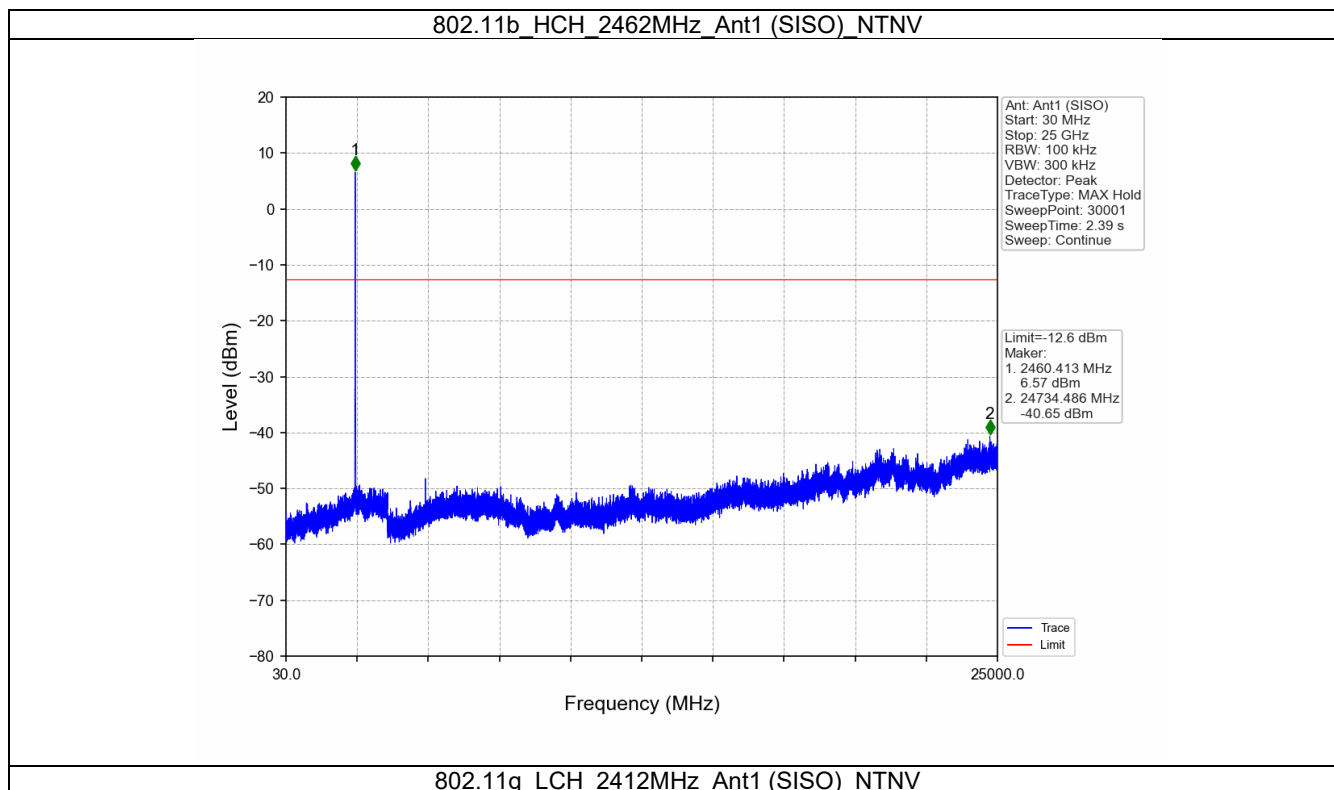


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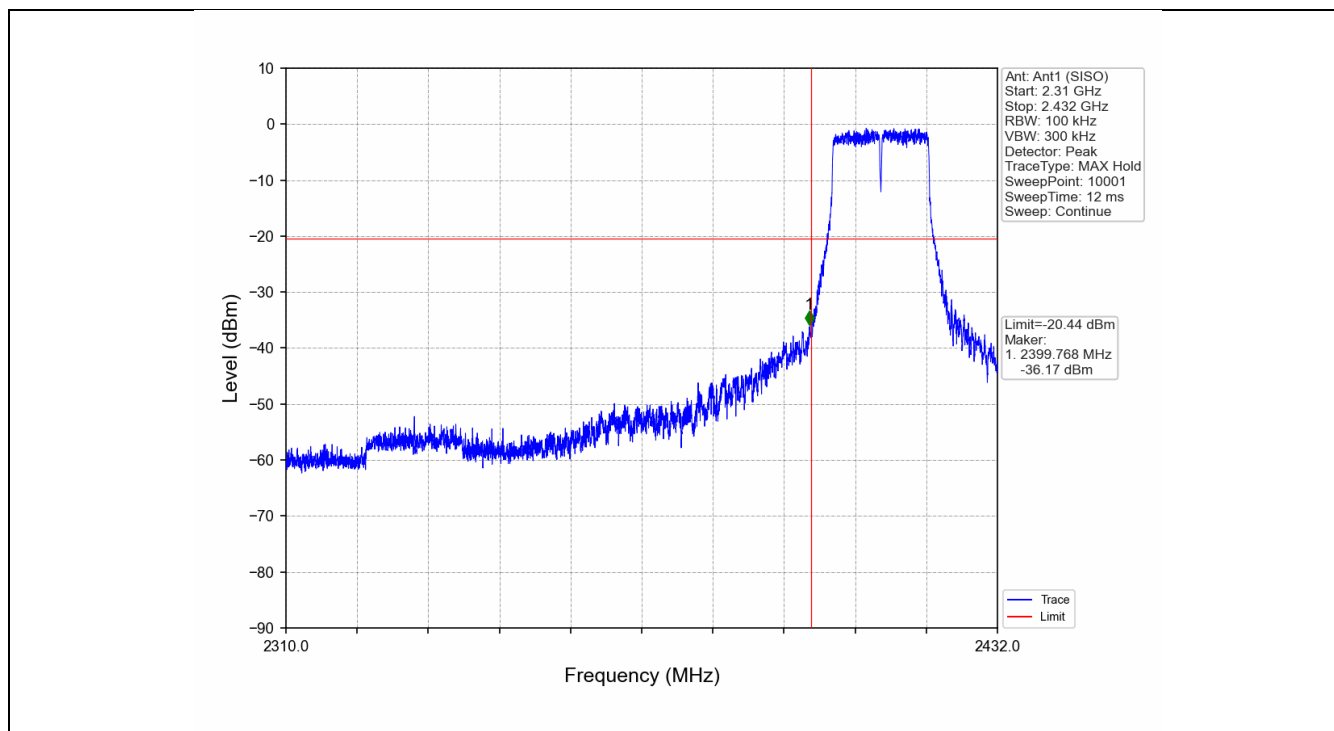
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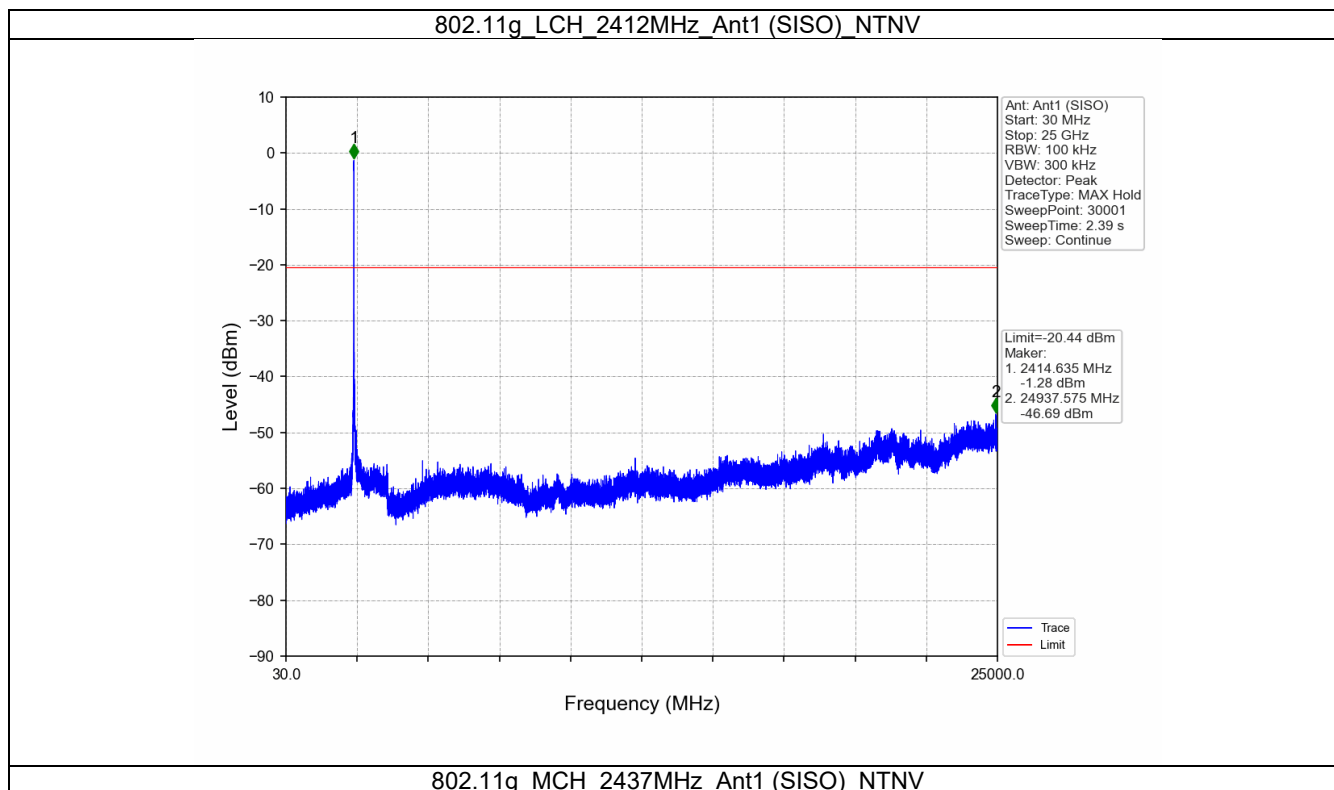


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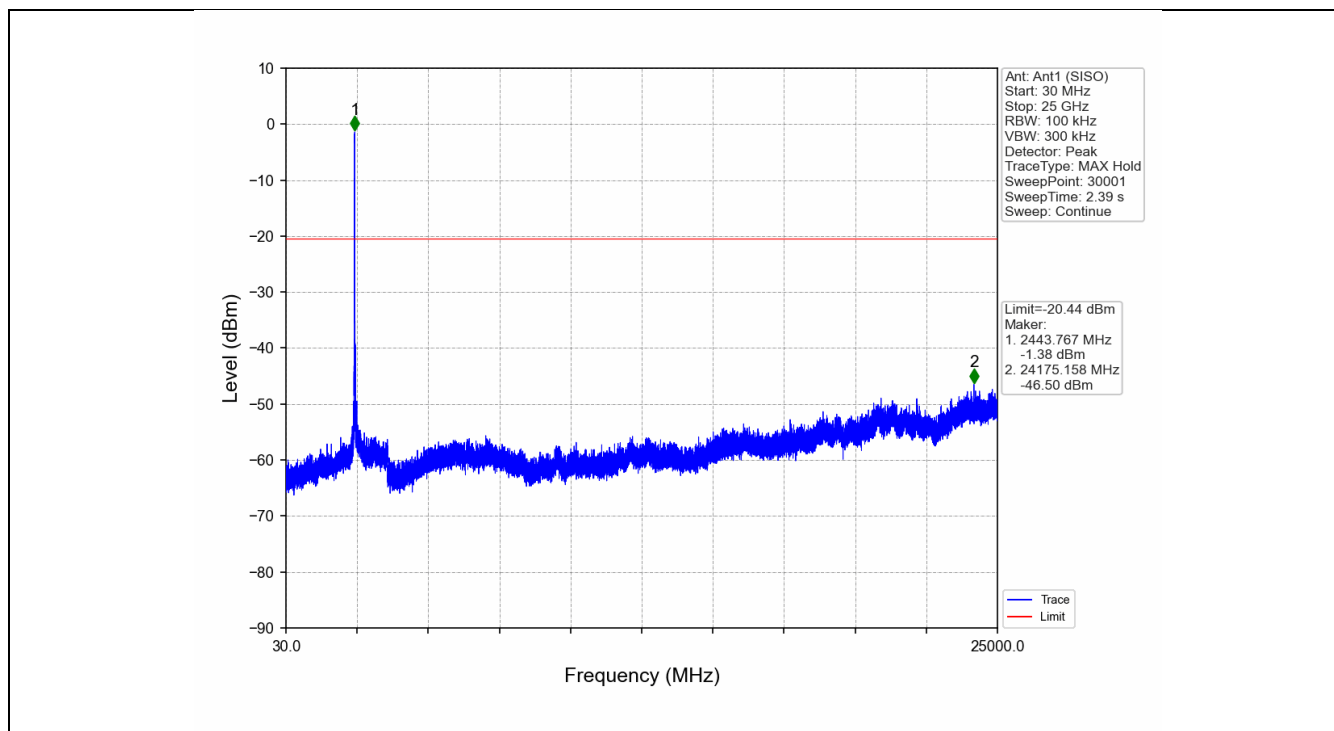
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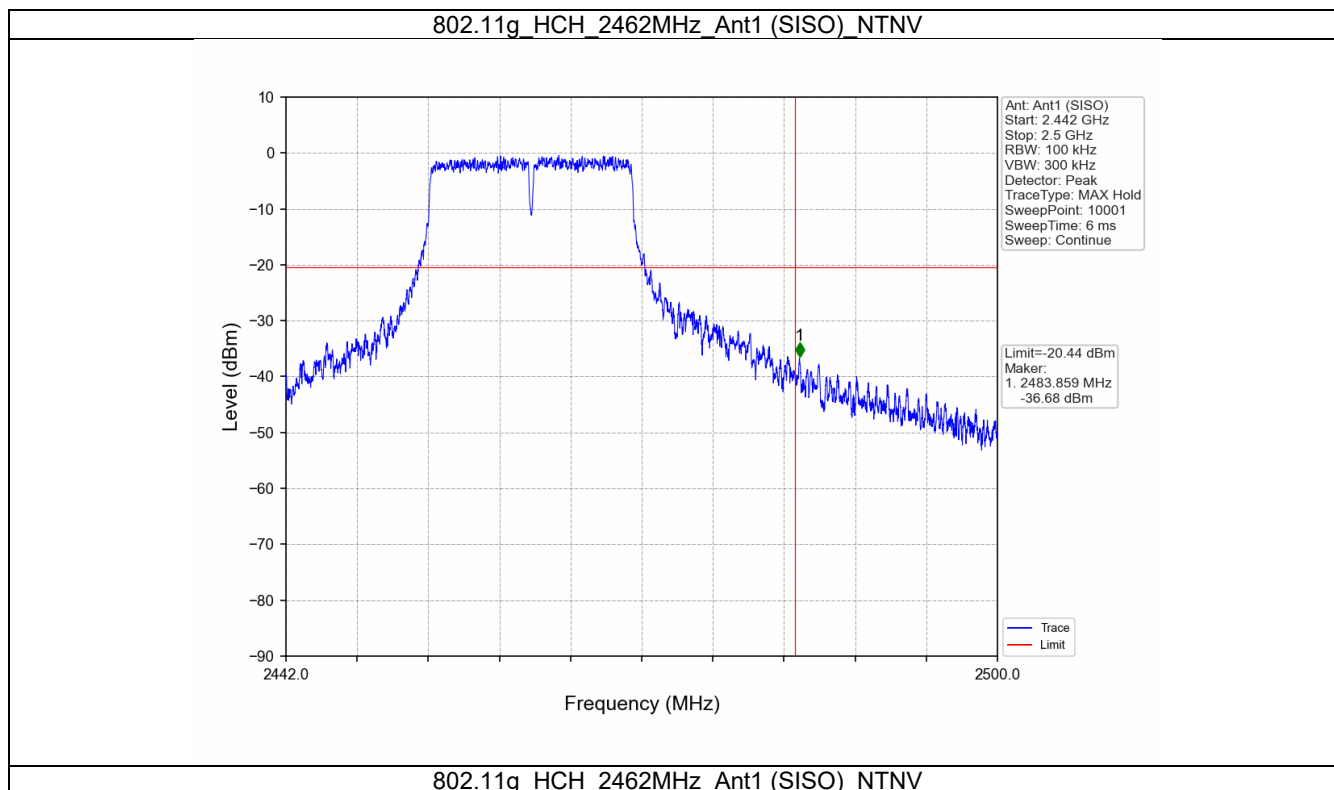
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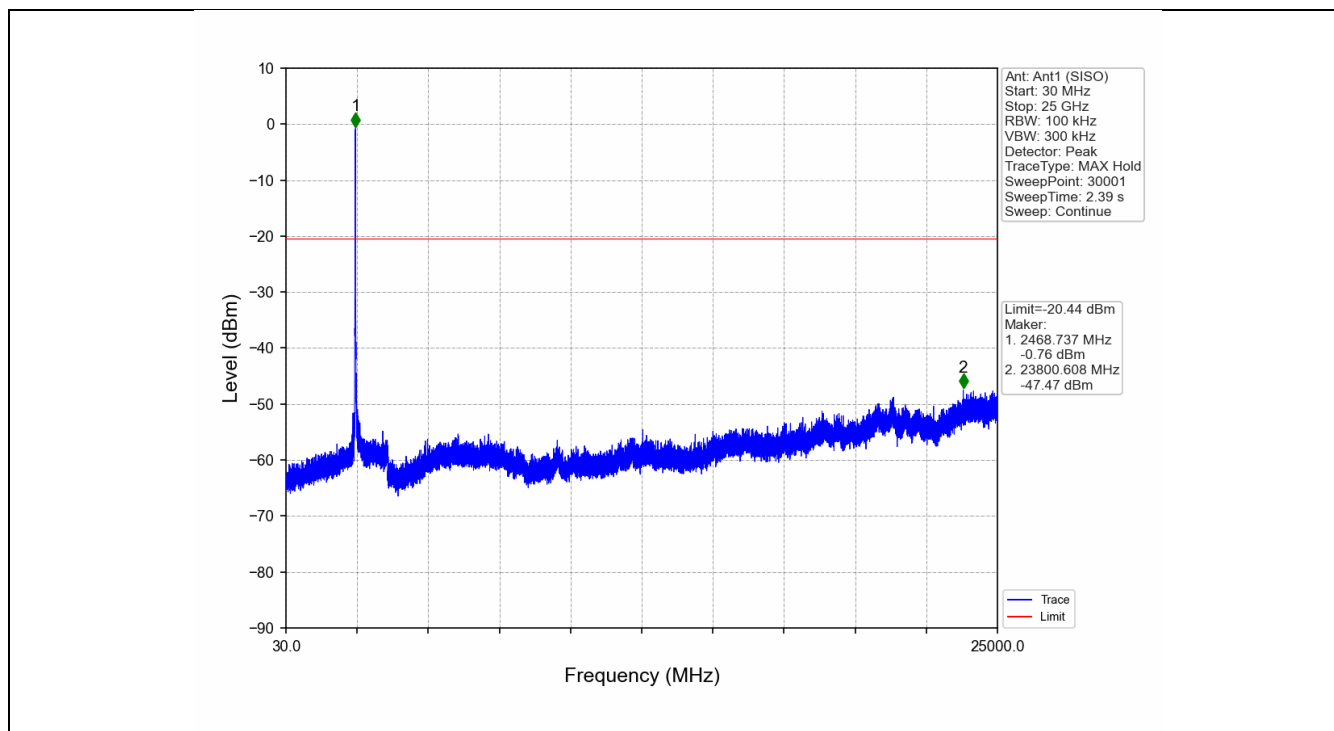
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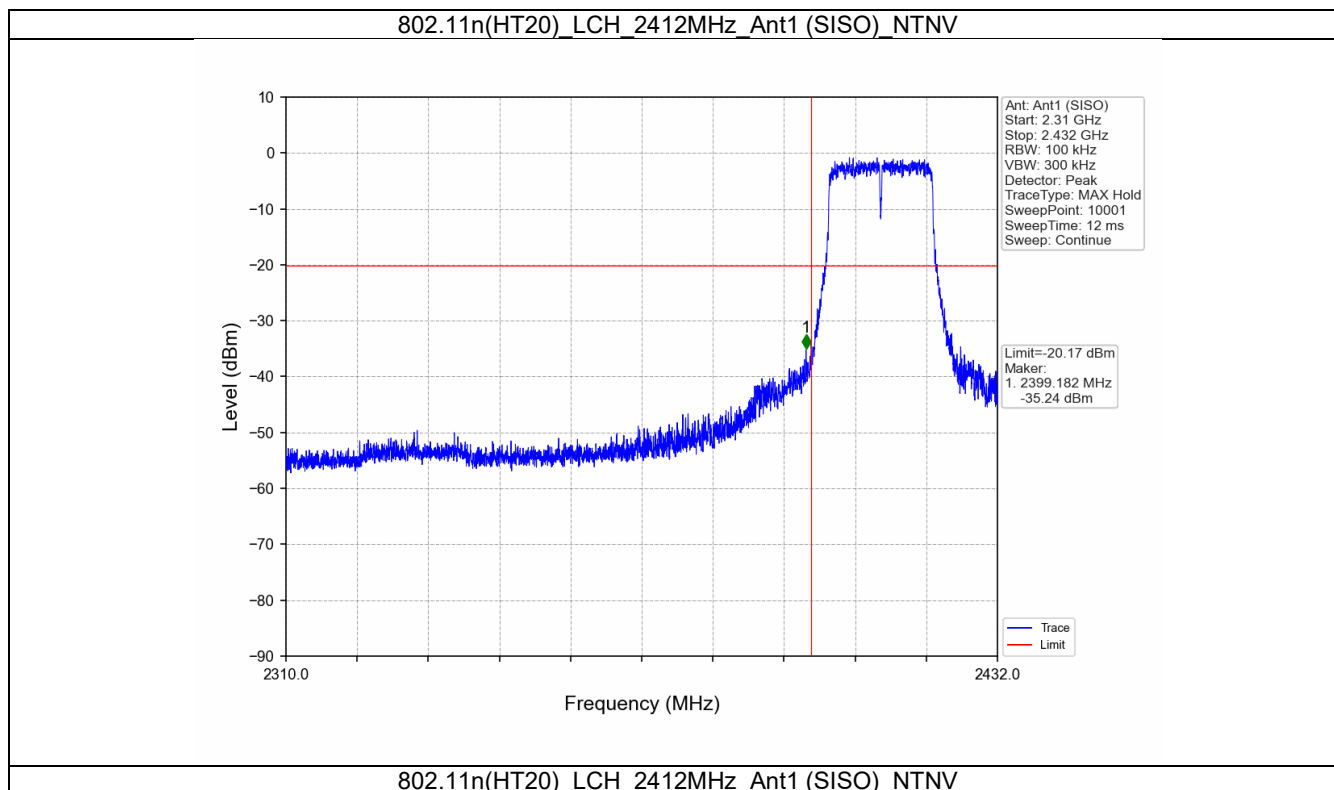
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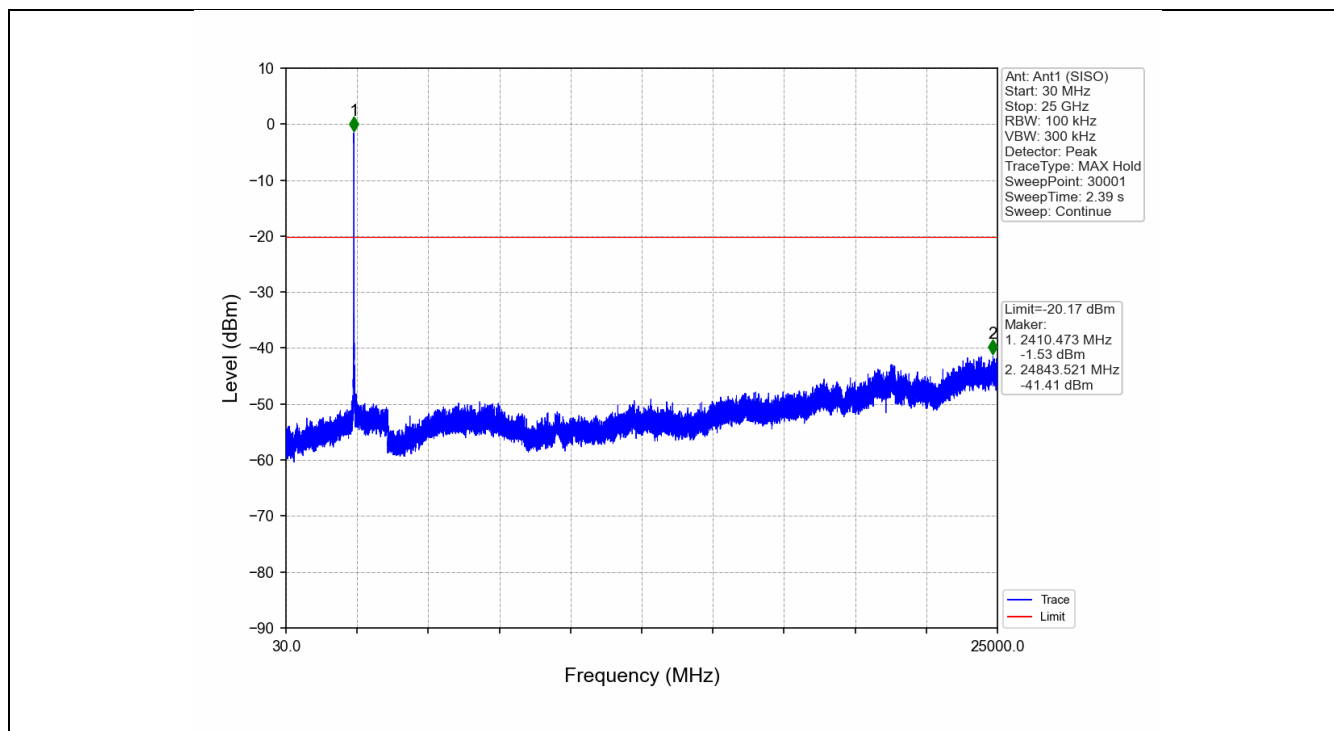
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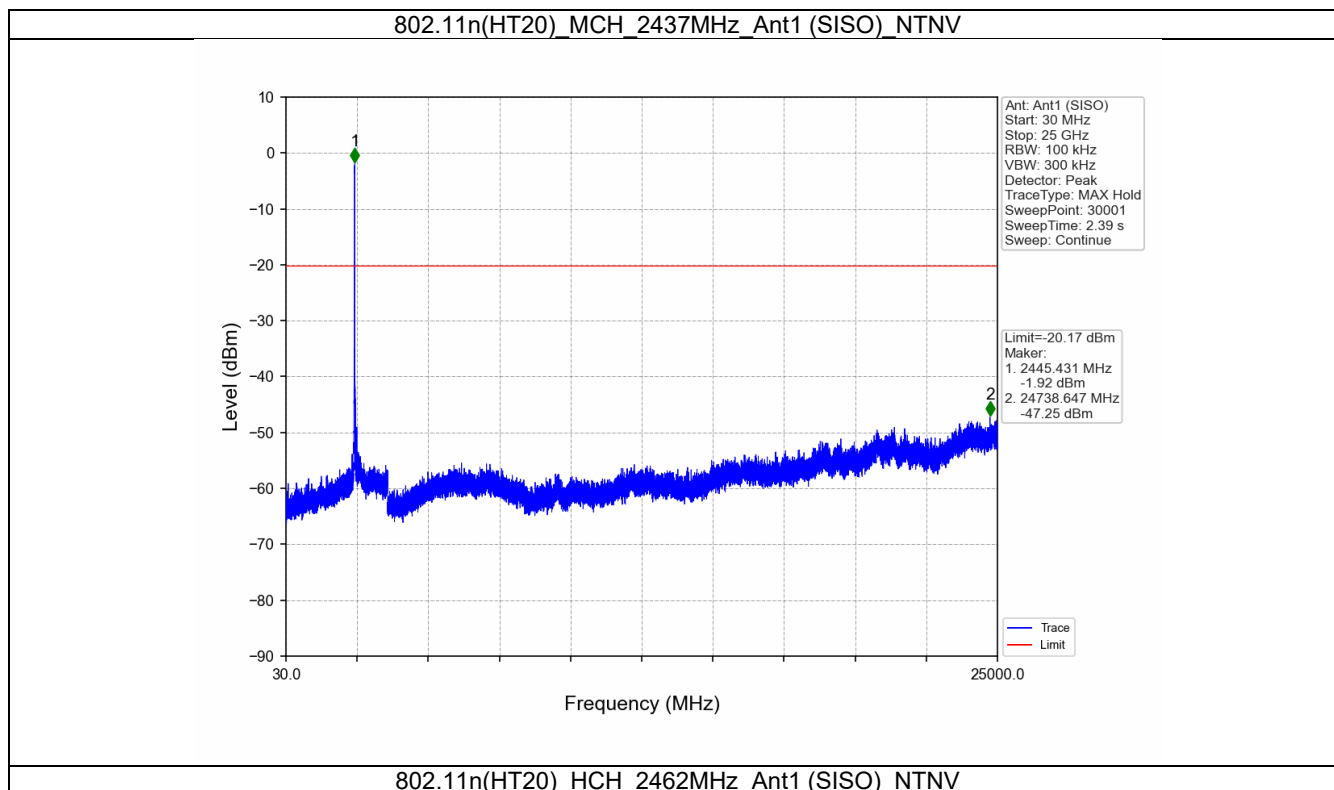
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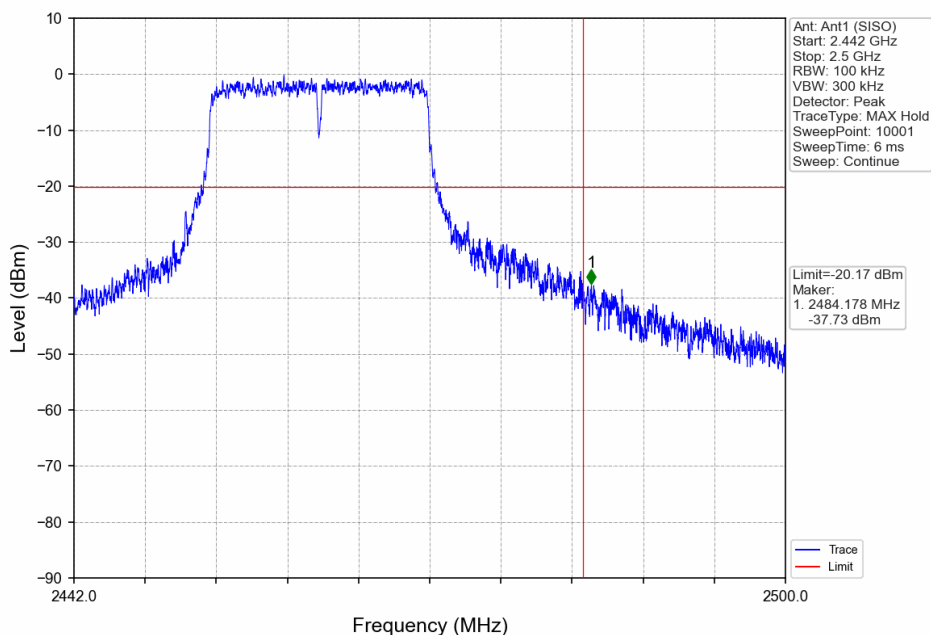
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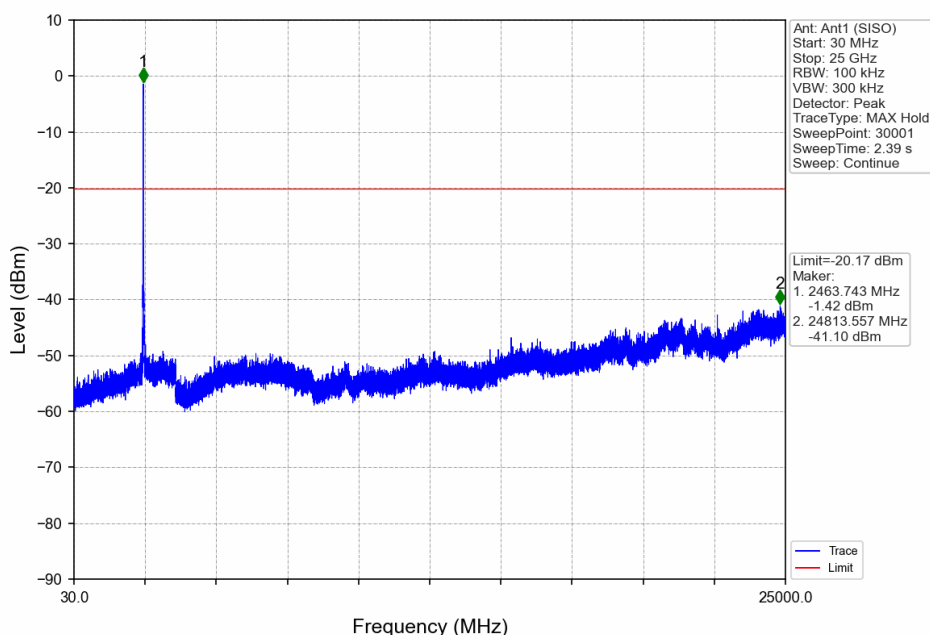


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



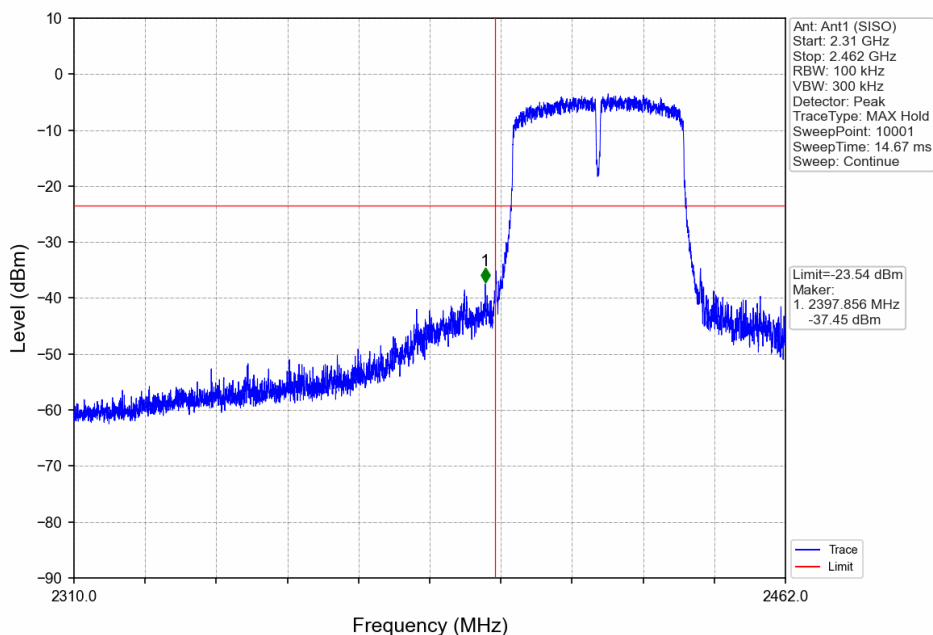
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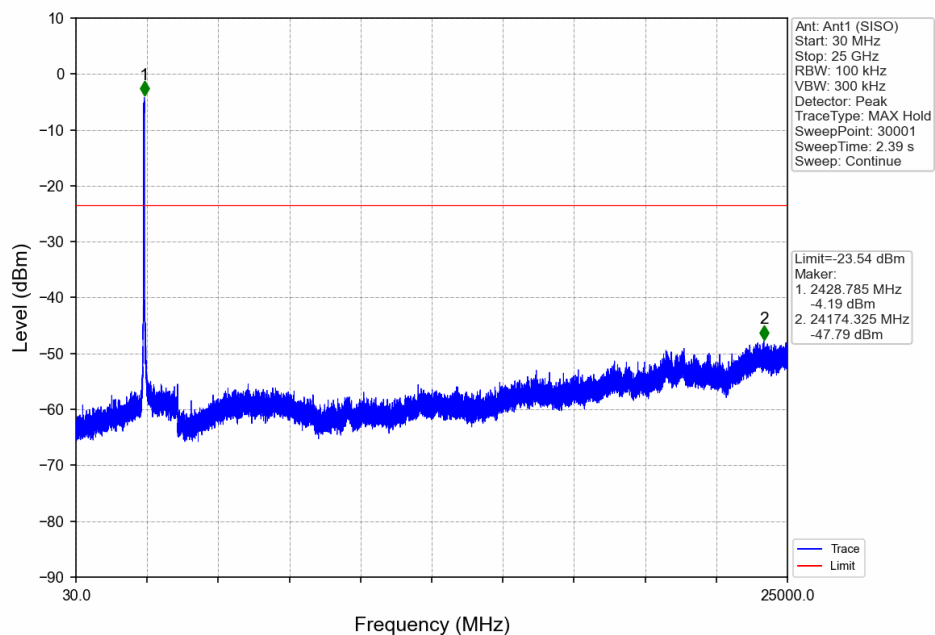


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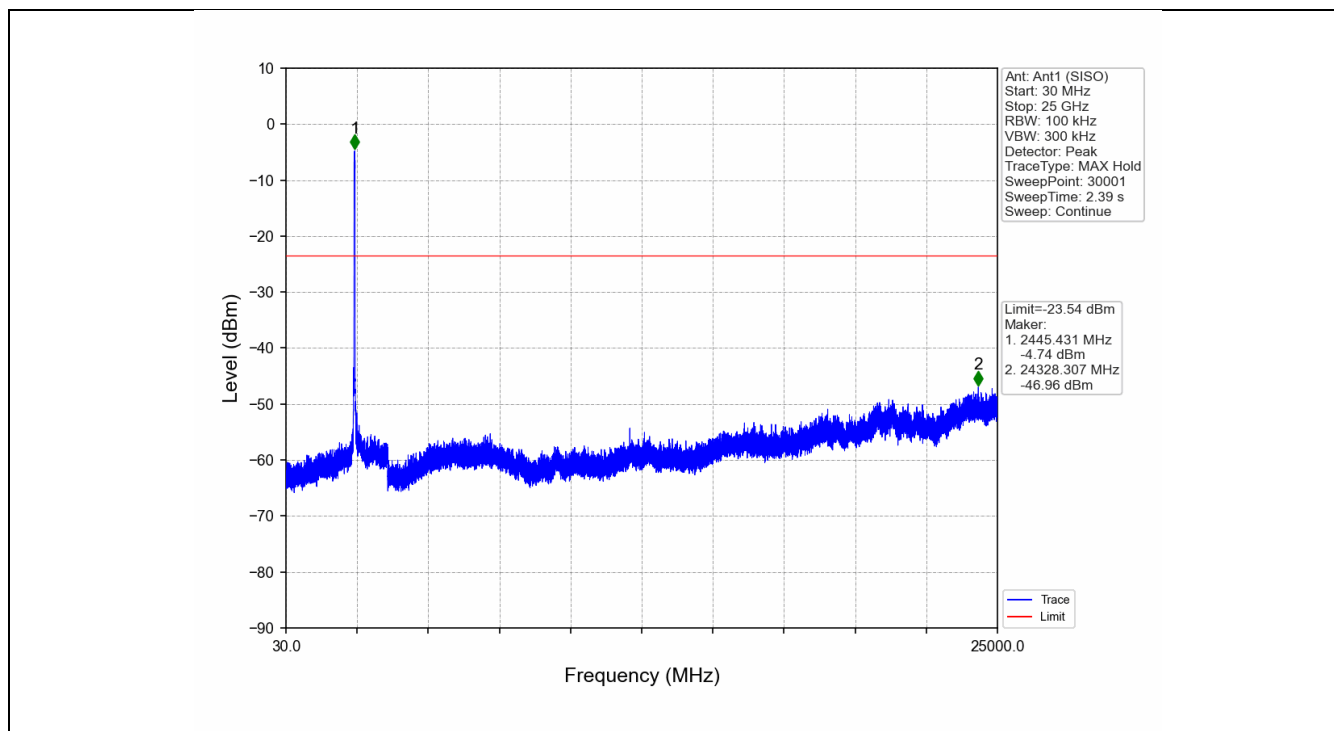
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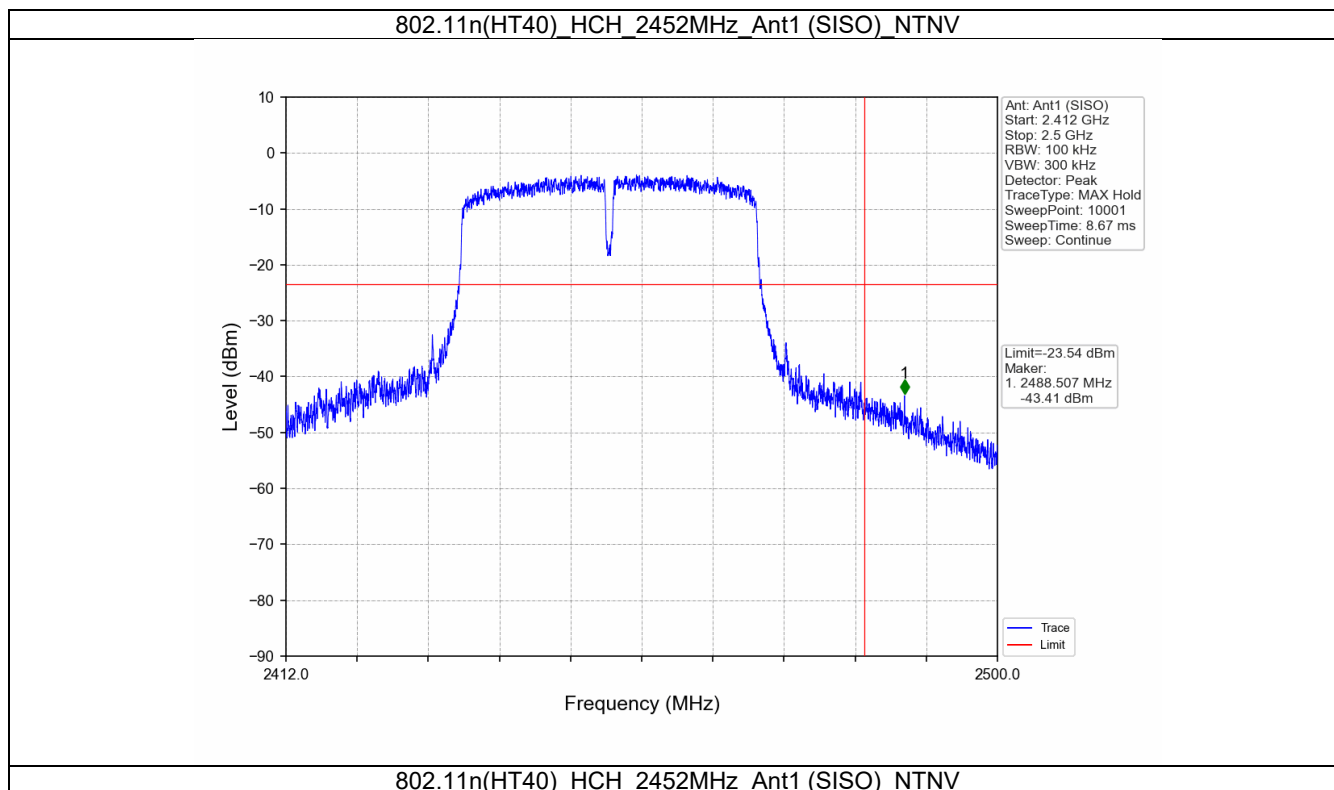
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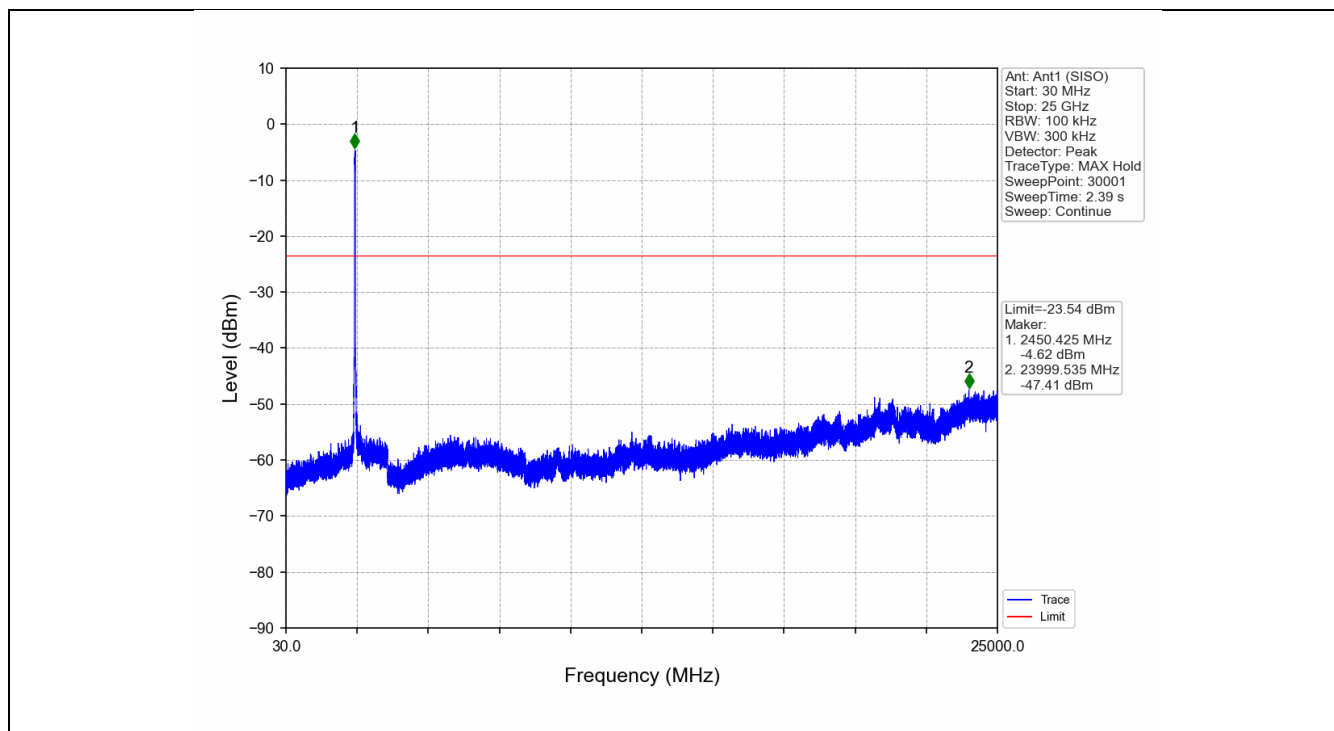
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