

Appendix A for KSEM210800146501

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



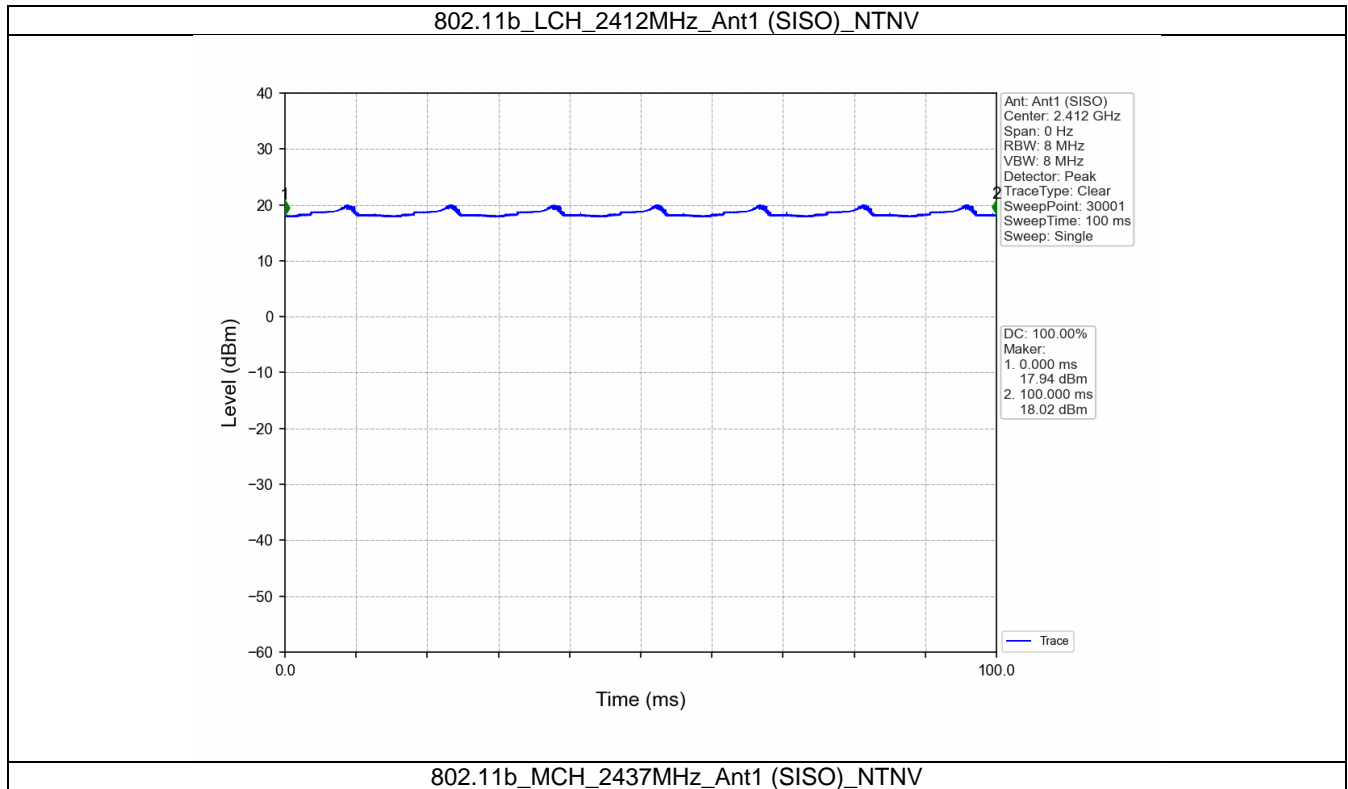
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1.1.2 Test Graph



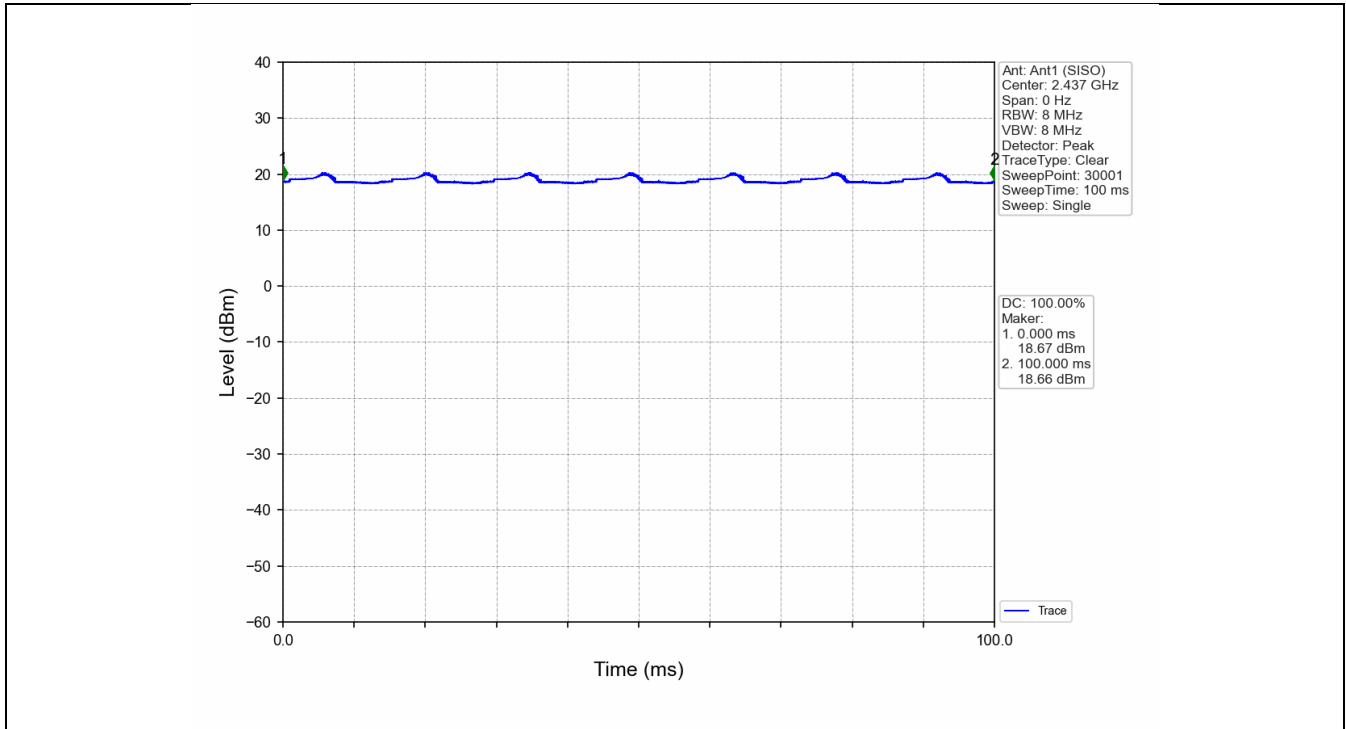
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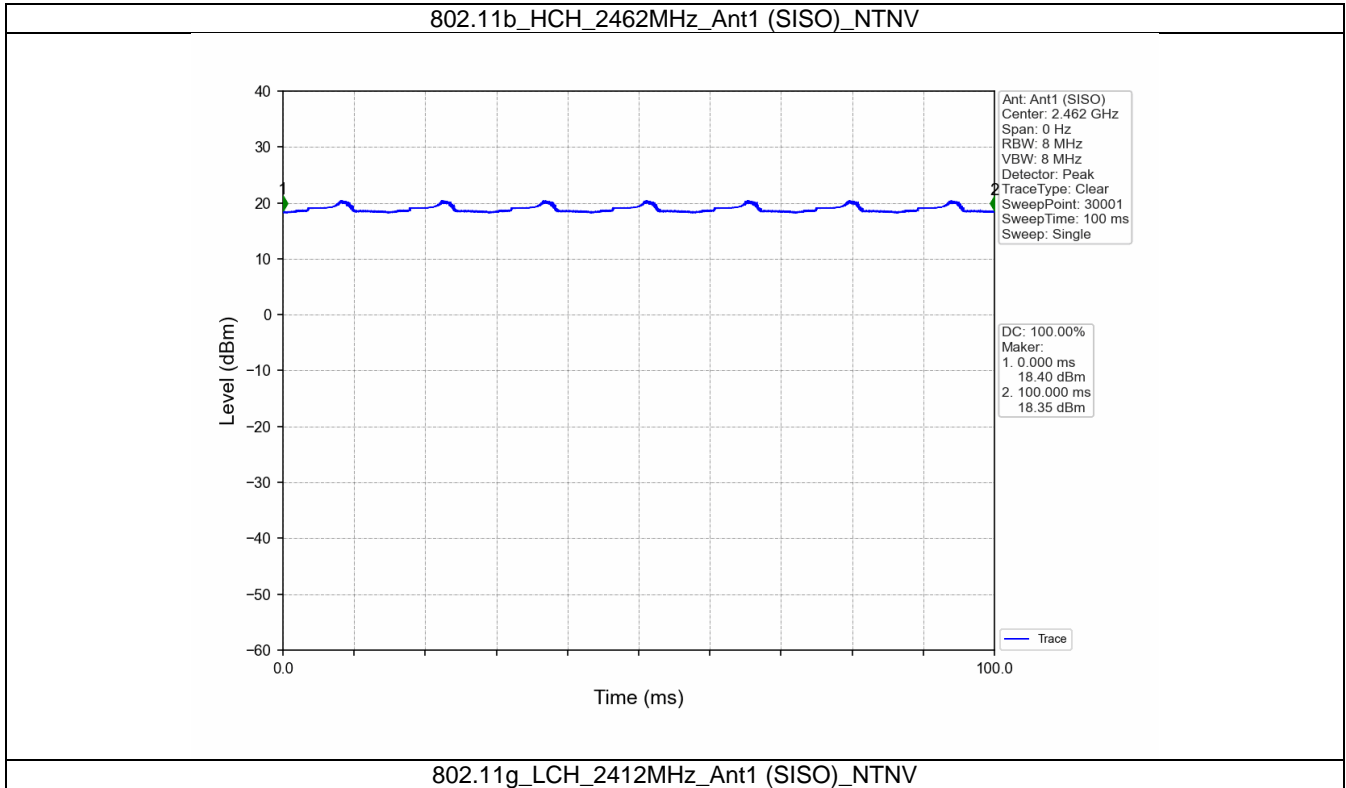


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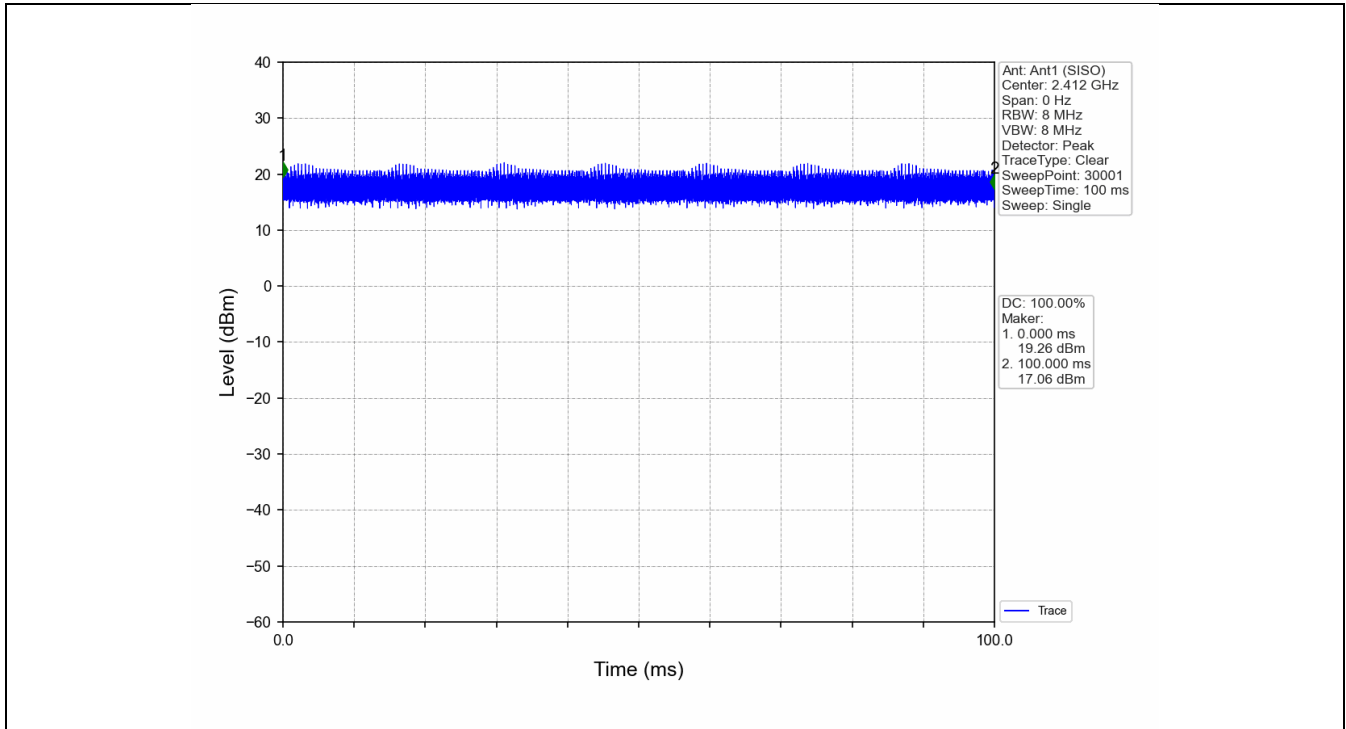
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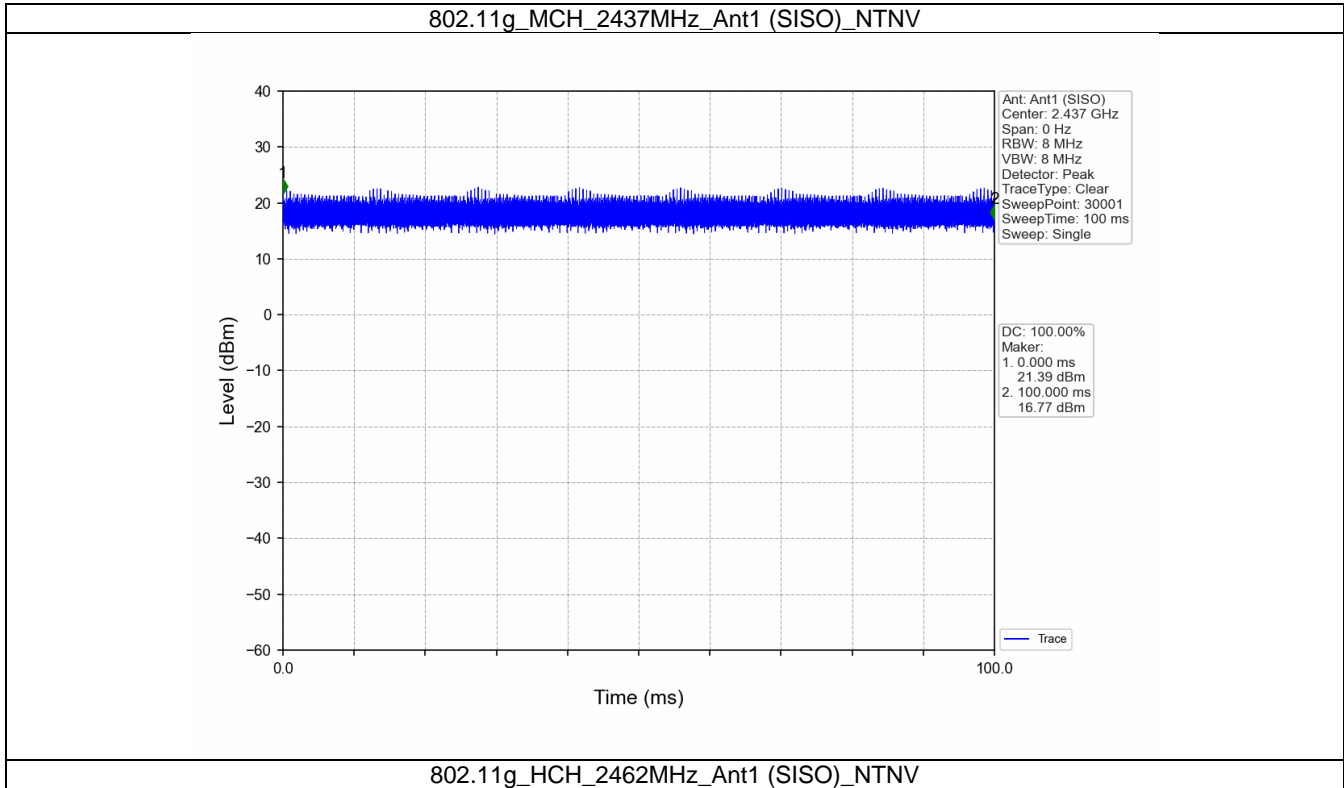


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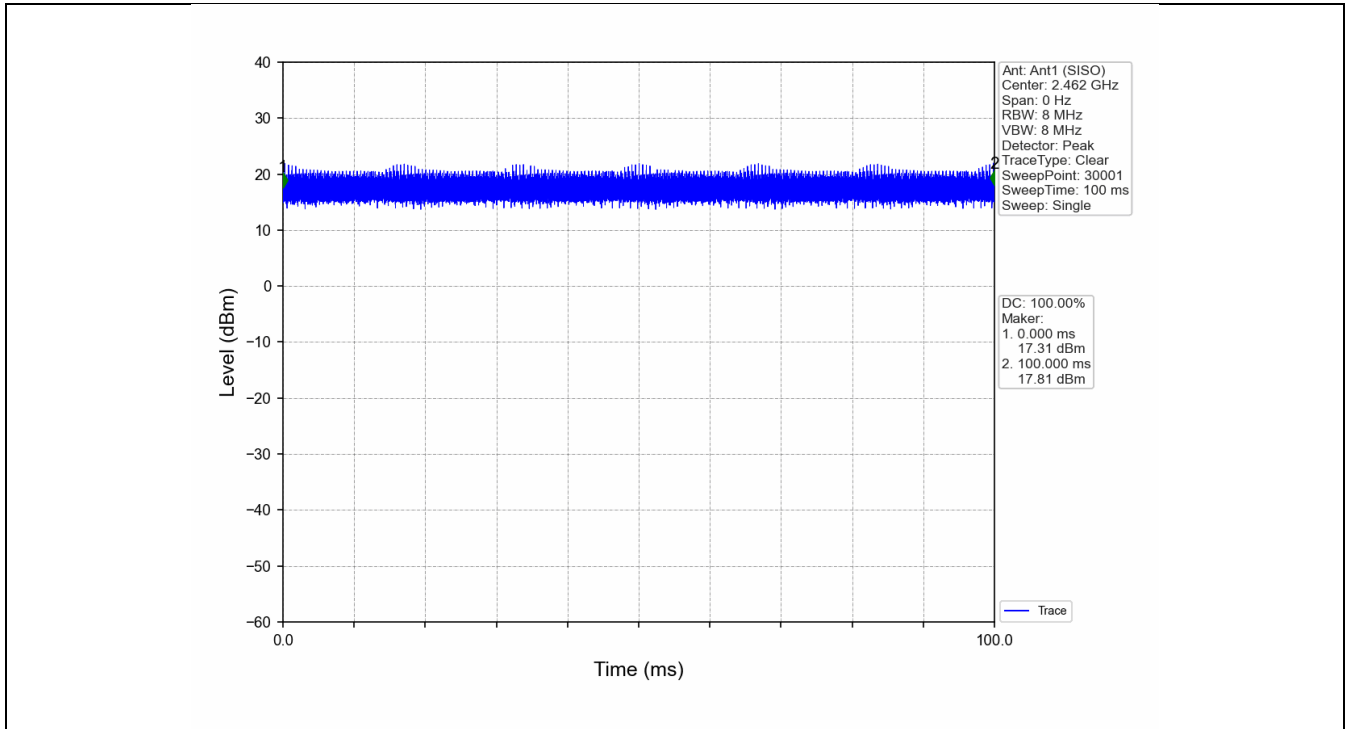
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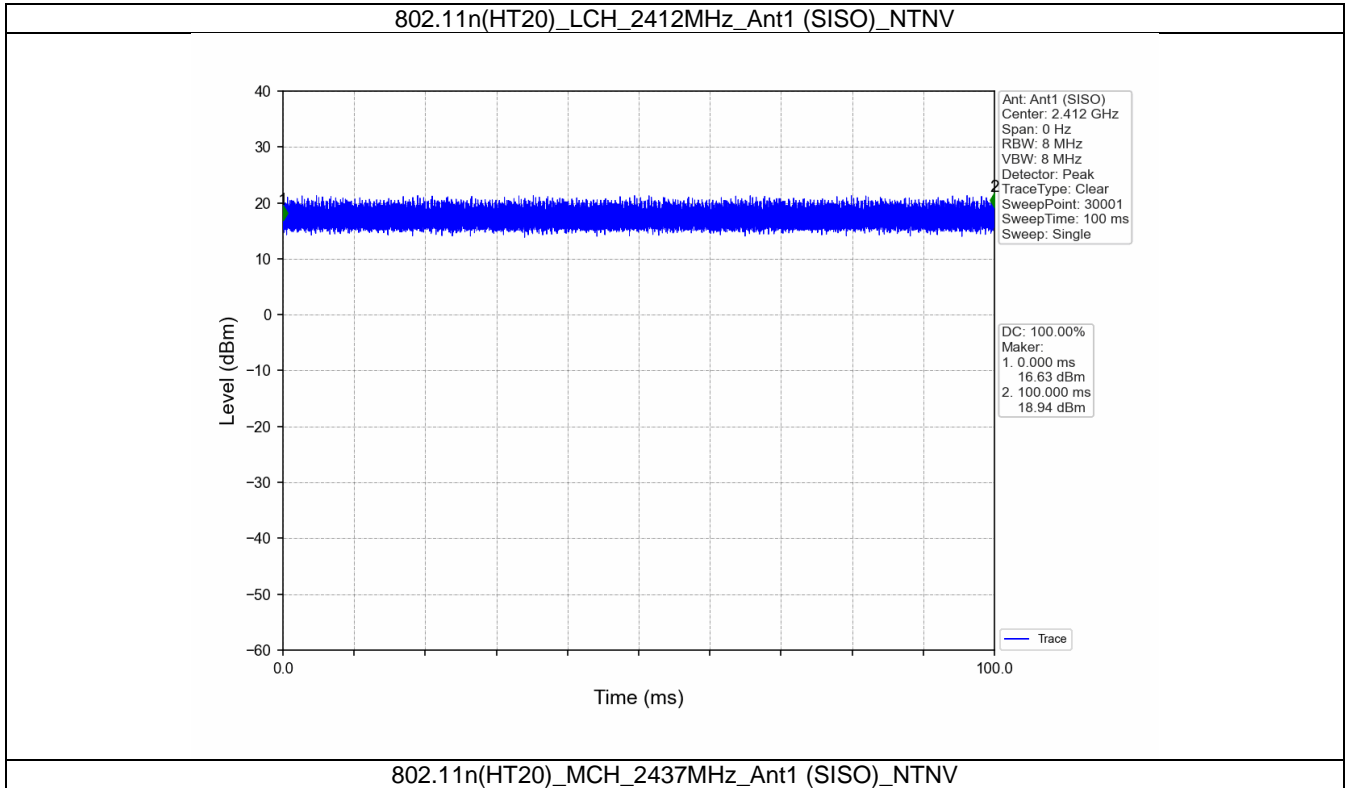


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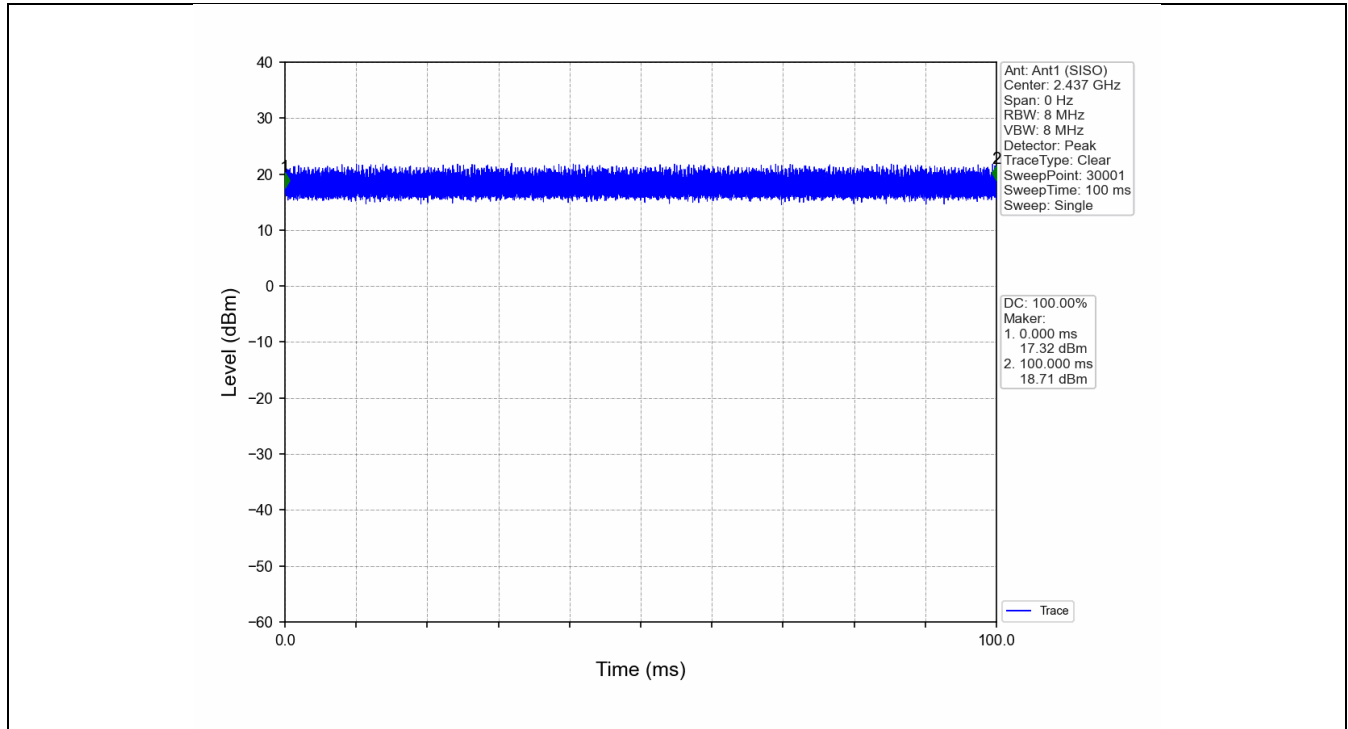
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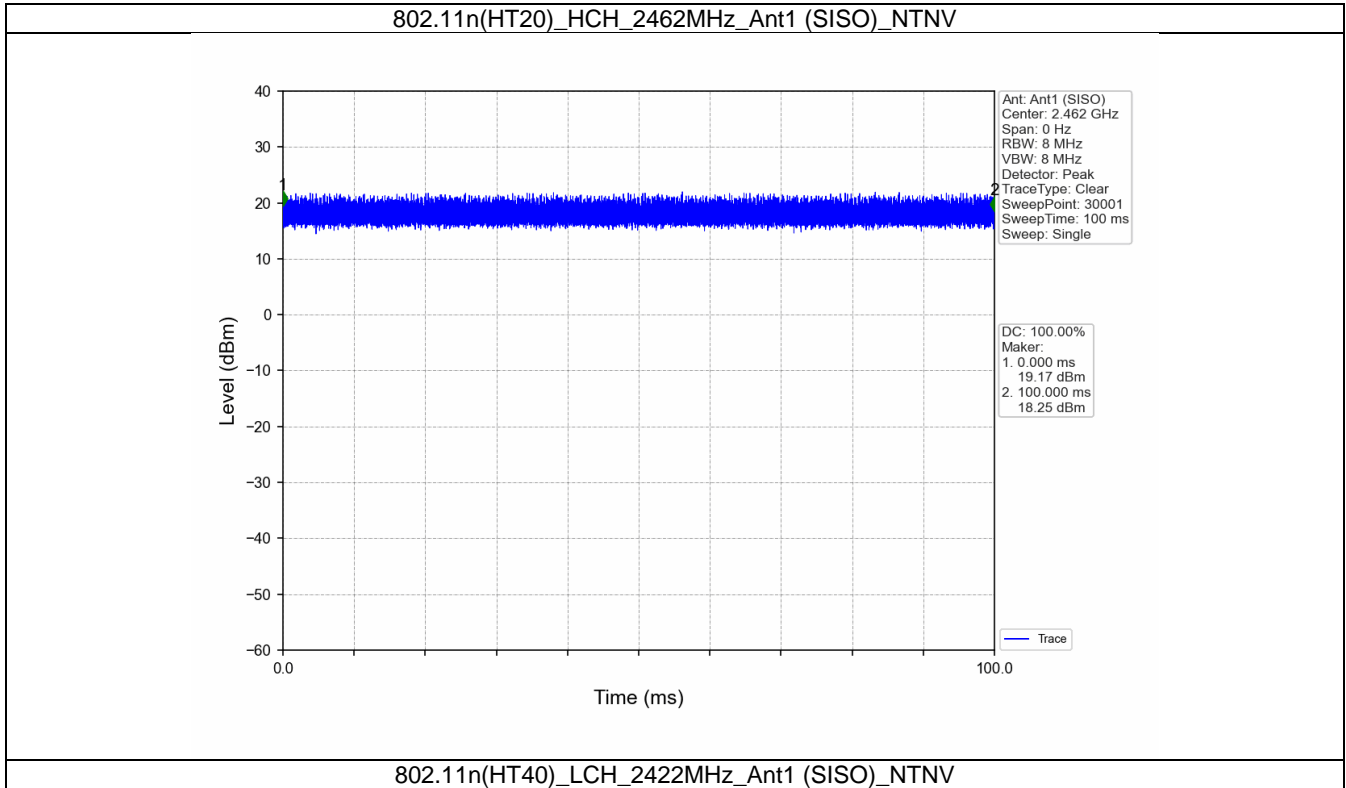


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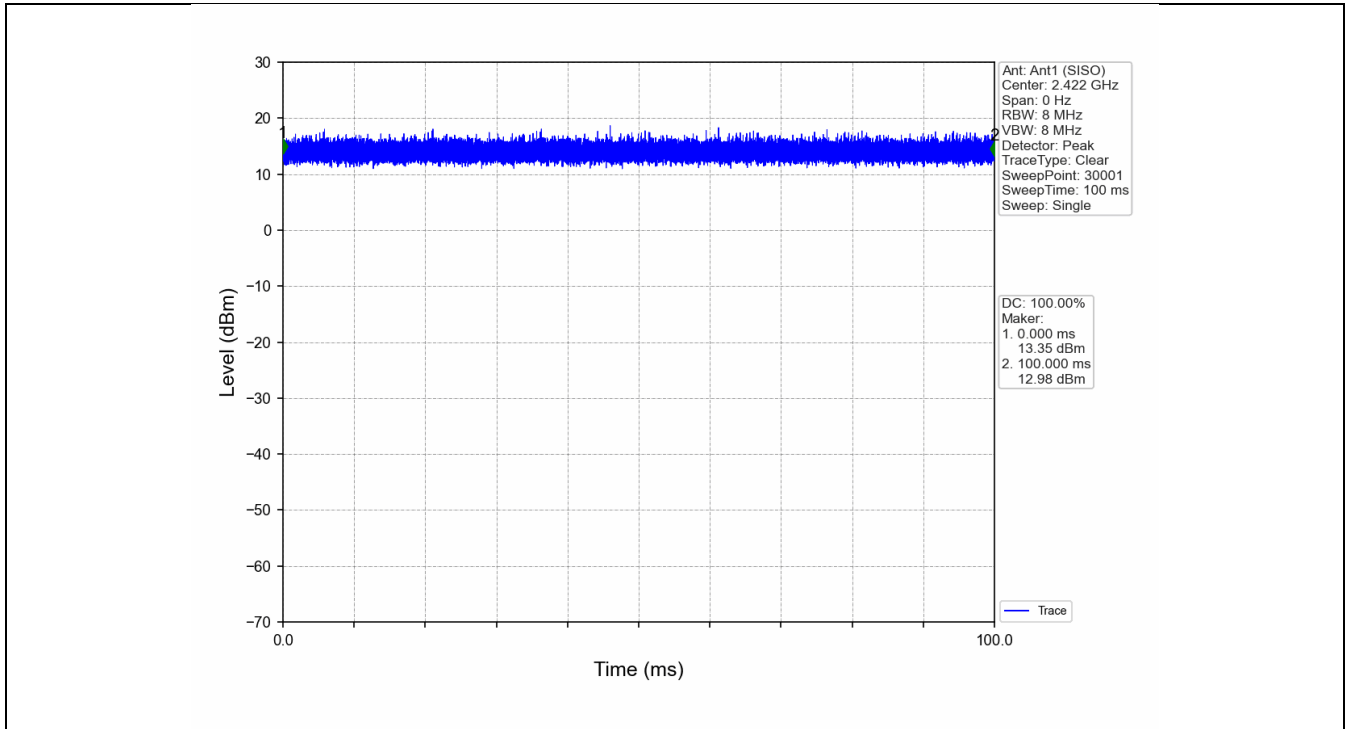


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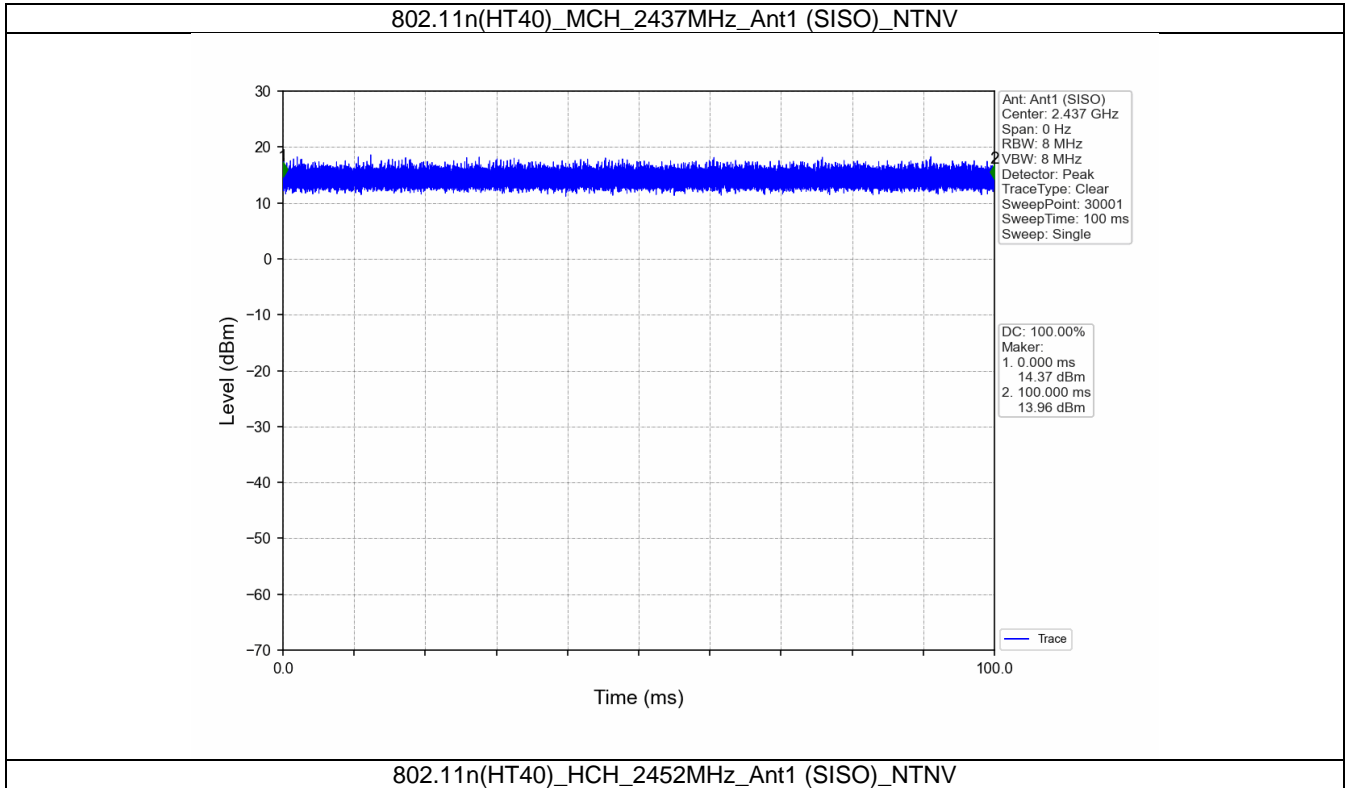


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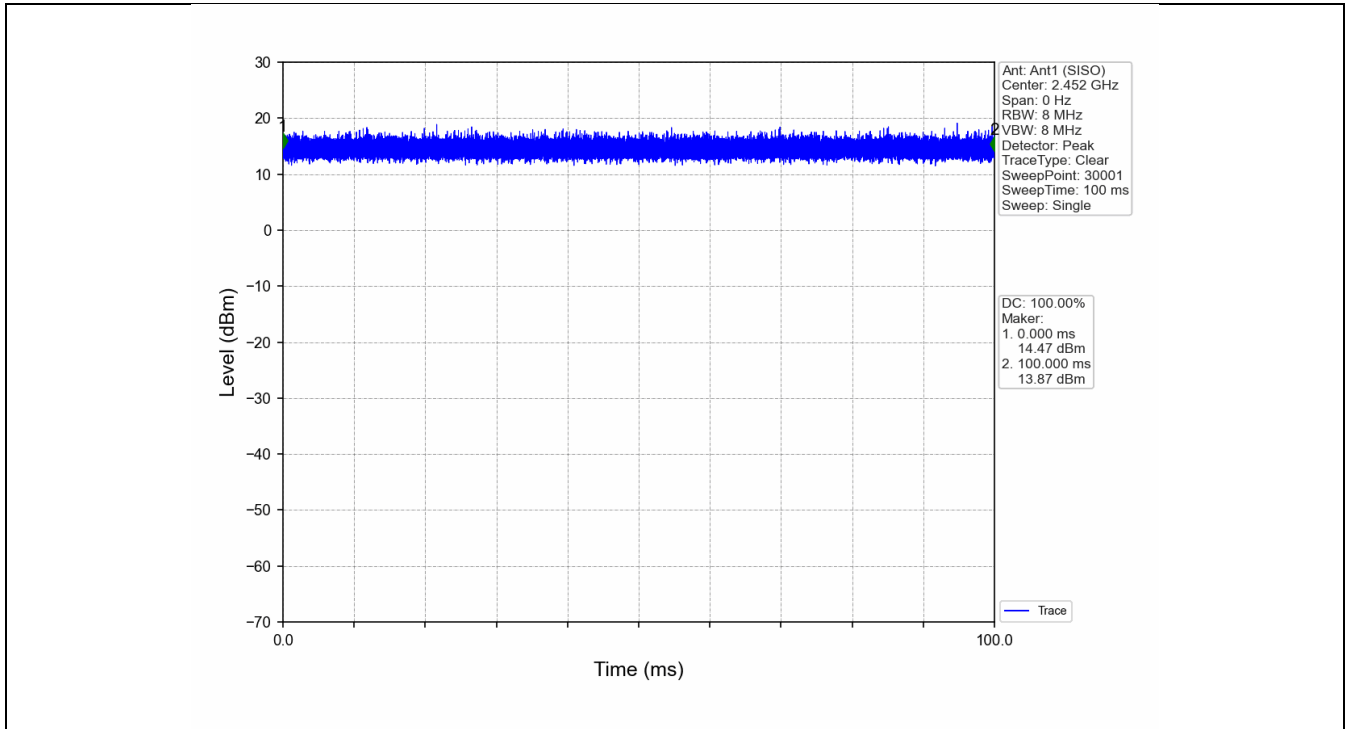


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2. Bandwidth

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	14.813	Pass
		2437	1	14.840	Pass
		2462	1	14.861	Pass
802.11g	SISO	2412	1	17.770	Pass
		2437	1	17.759	Pass
		2462	1	17.672	Pass
802.11n (HT20)	SISO	2412	1	18.649	Pass
		2437	1	18.657	Pass
		2462	1	18.682	Pass
802.11n (HT40)	SISO	2422	1	36.064	Pass
		2437	1	36.061	Pass
		2452	1	36.059	Pass

2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

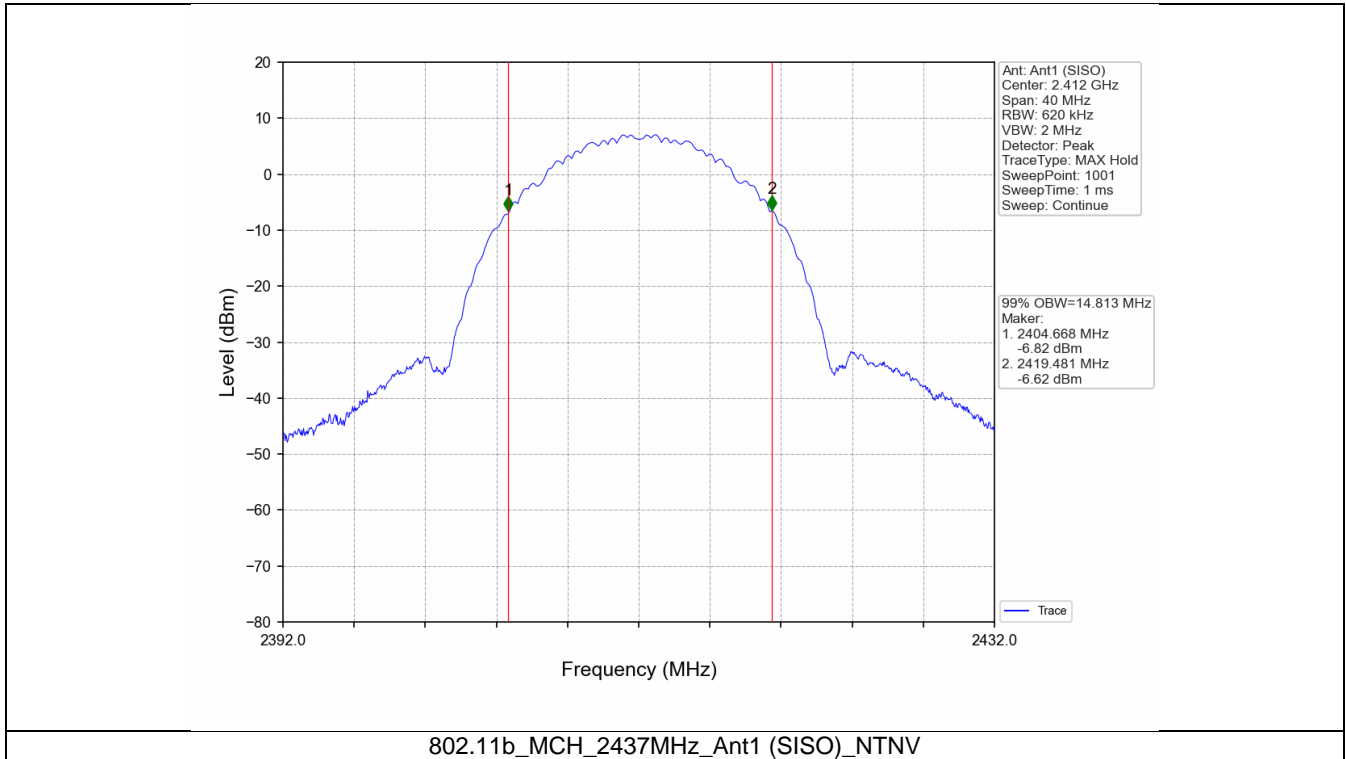


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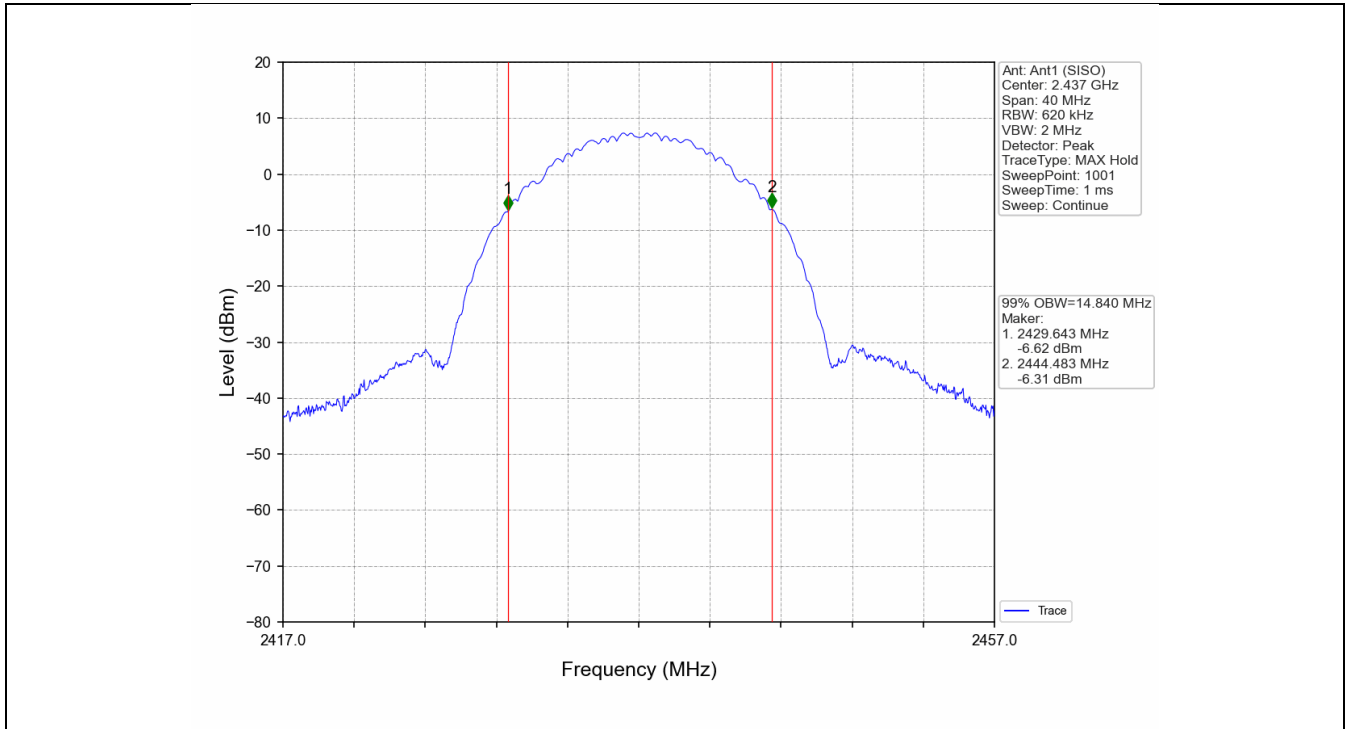
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

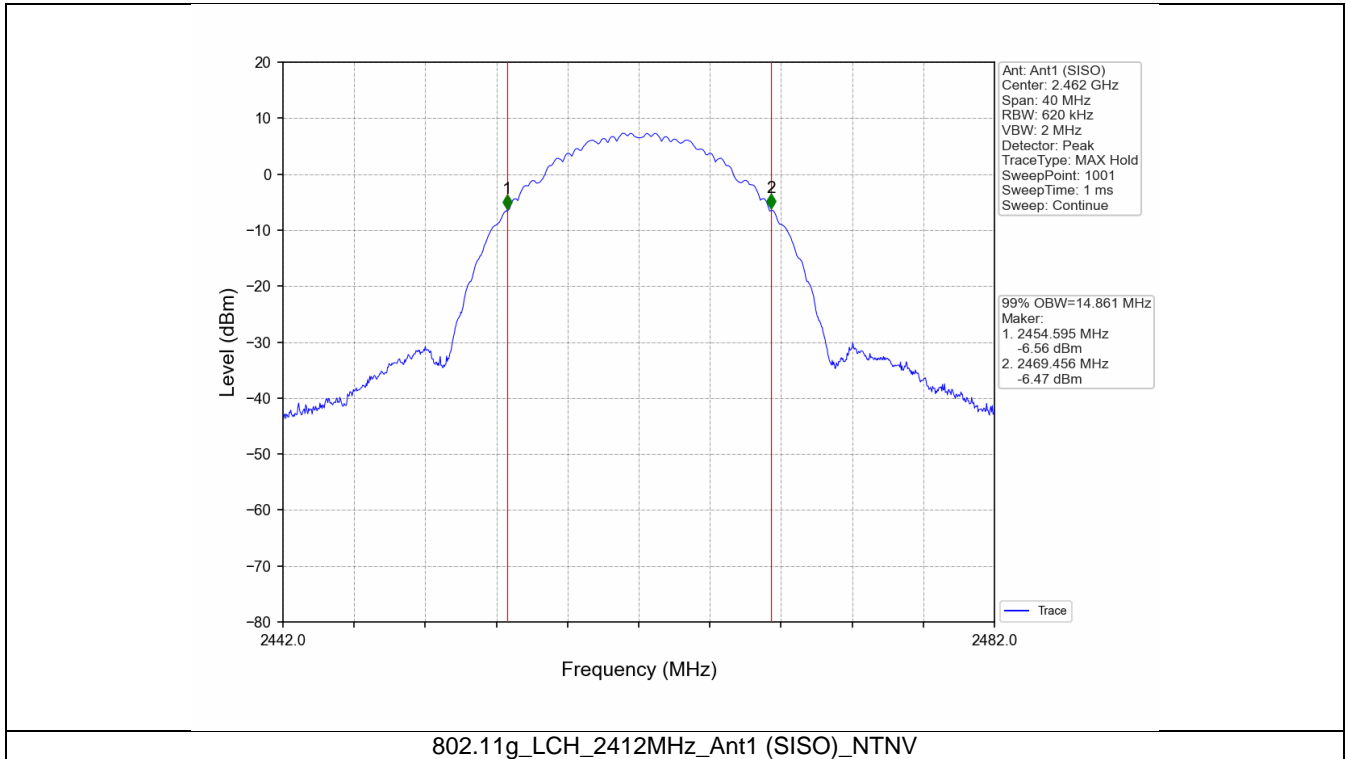


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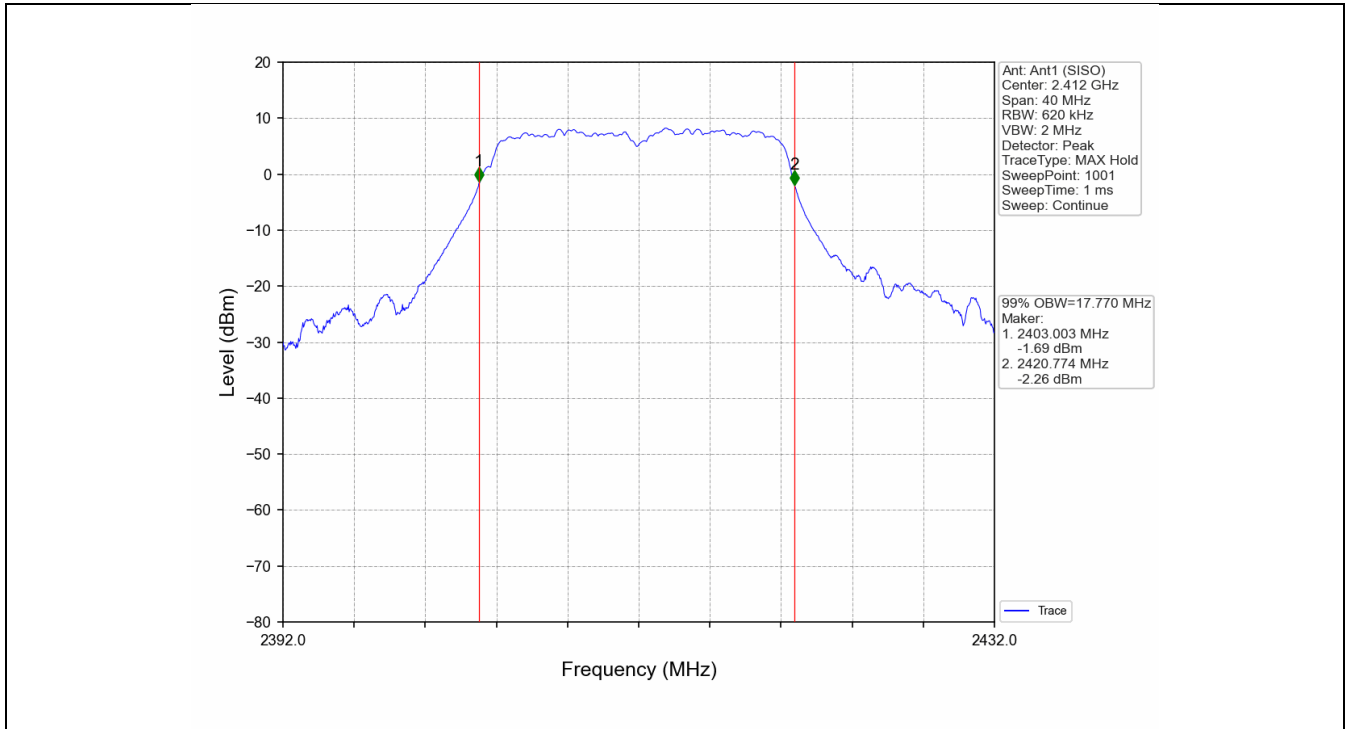
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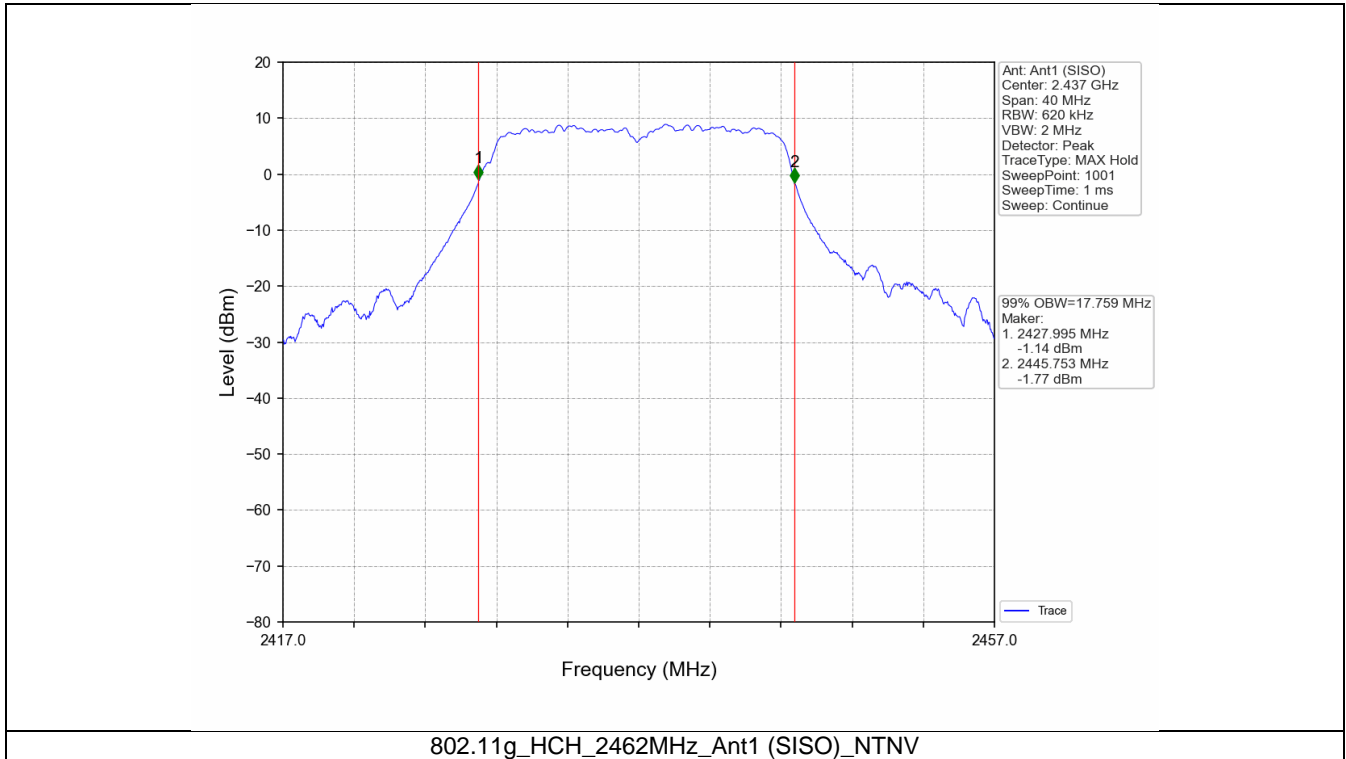
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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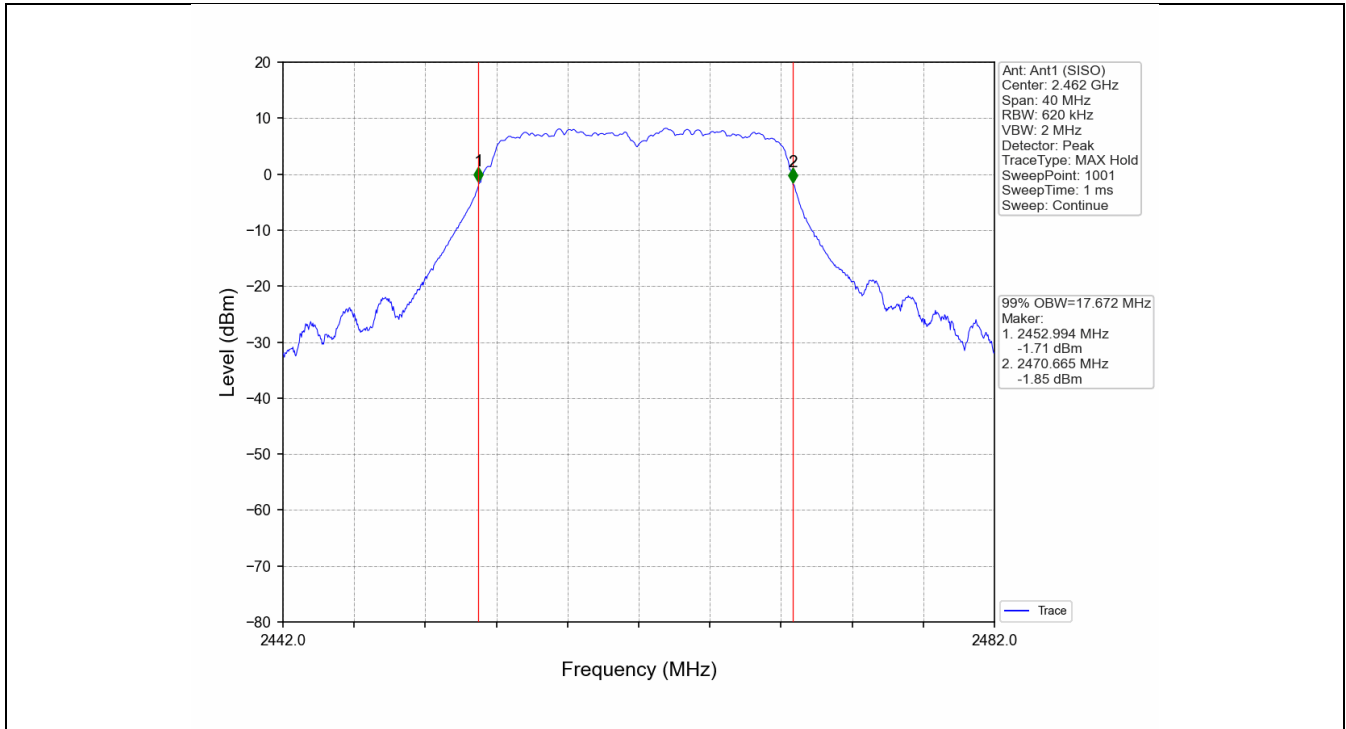
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

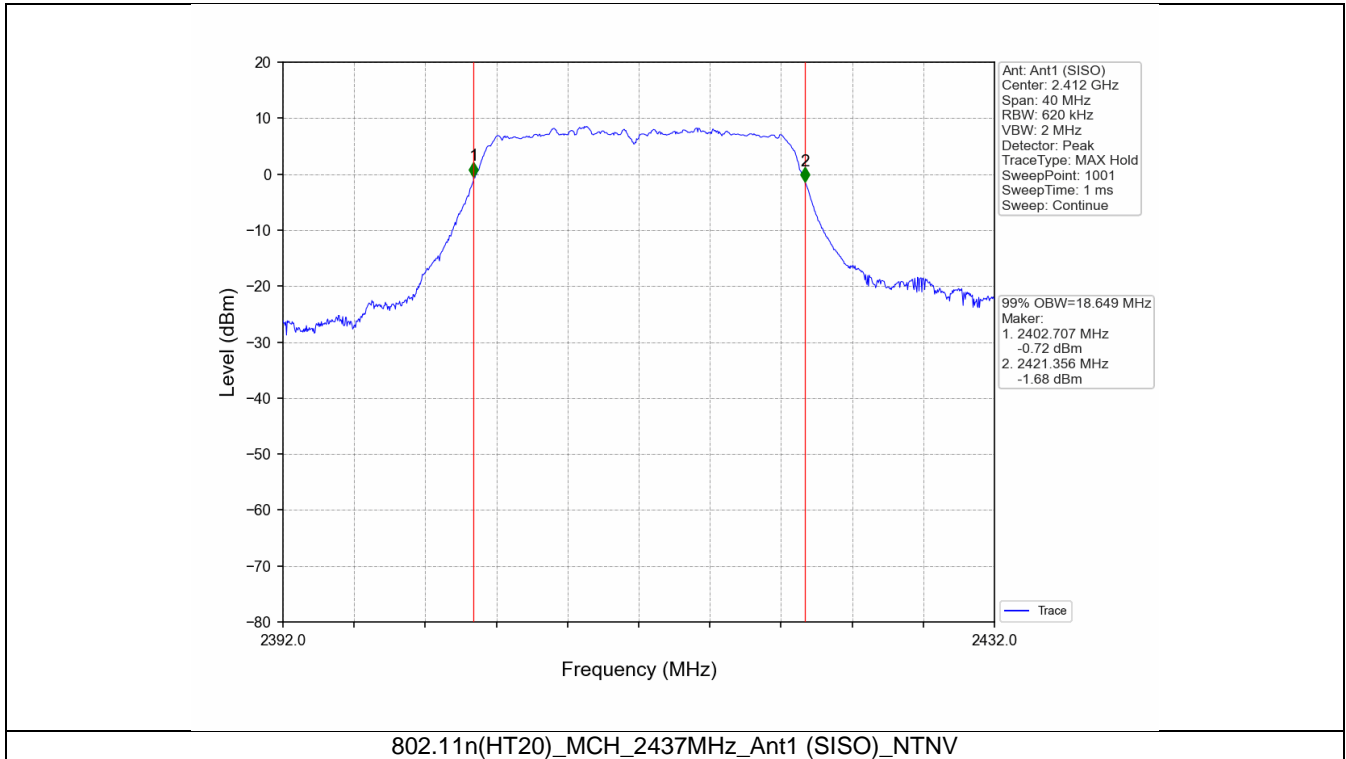


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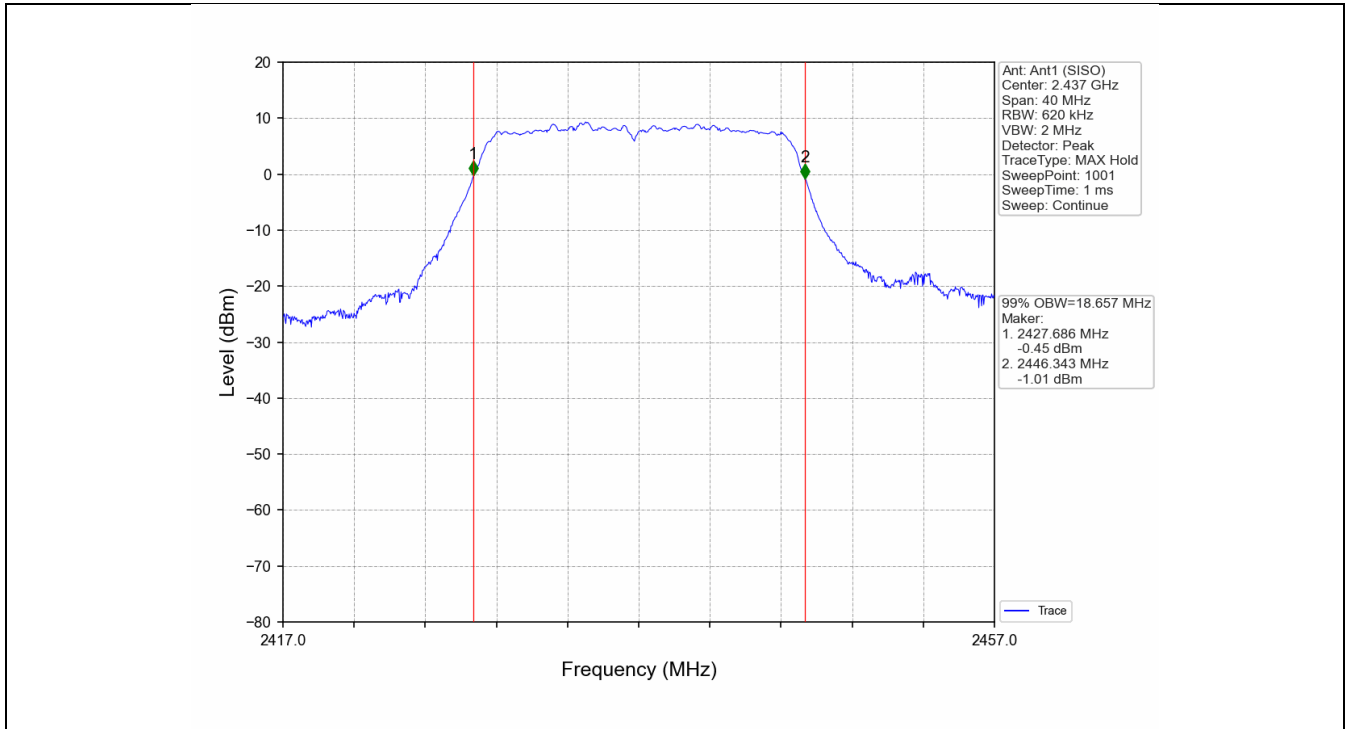
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

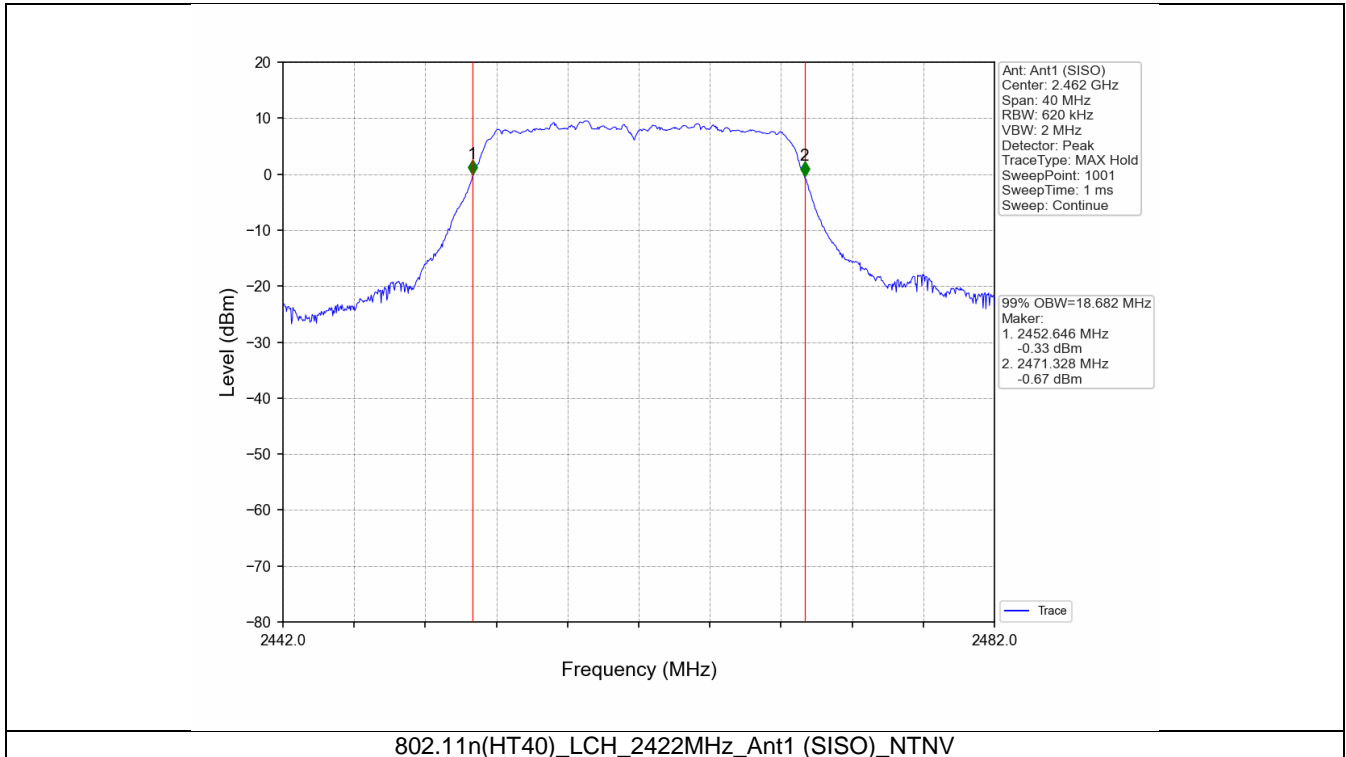


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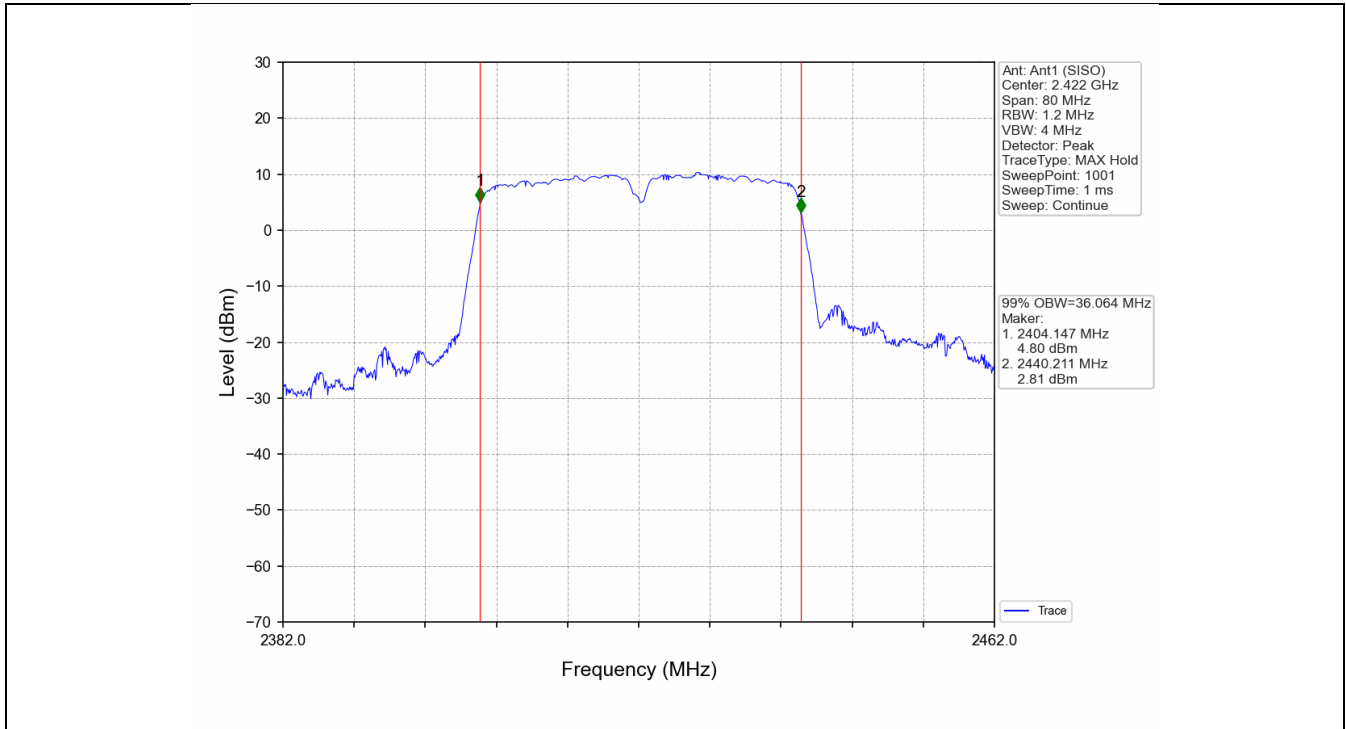


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

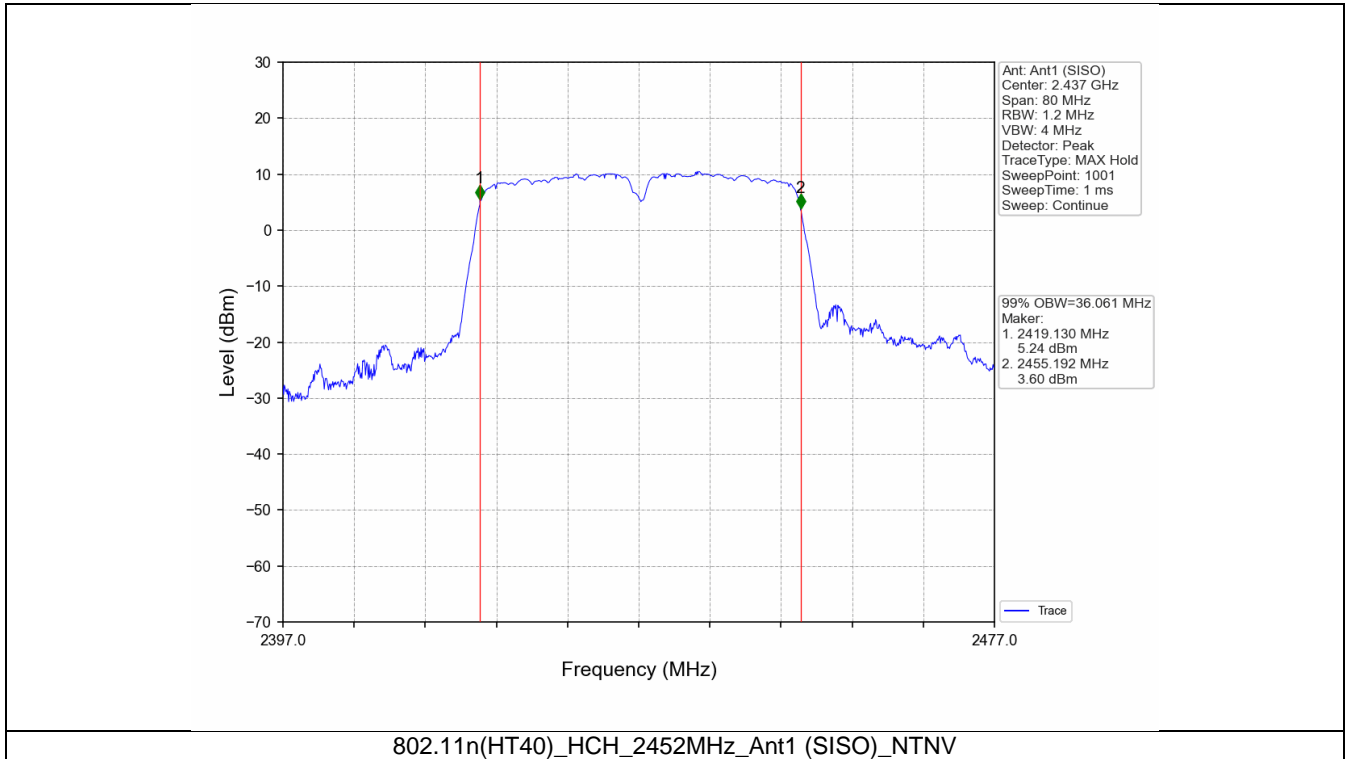


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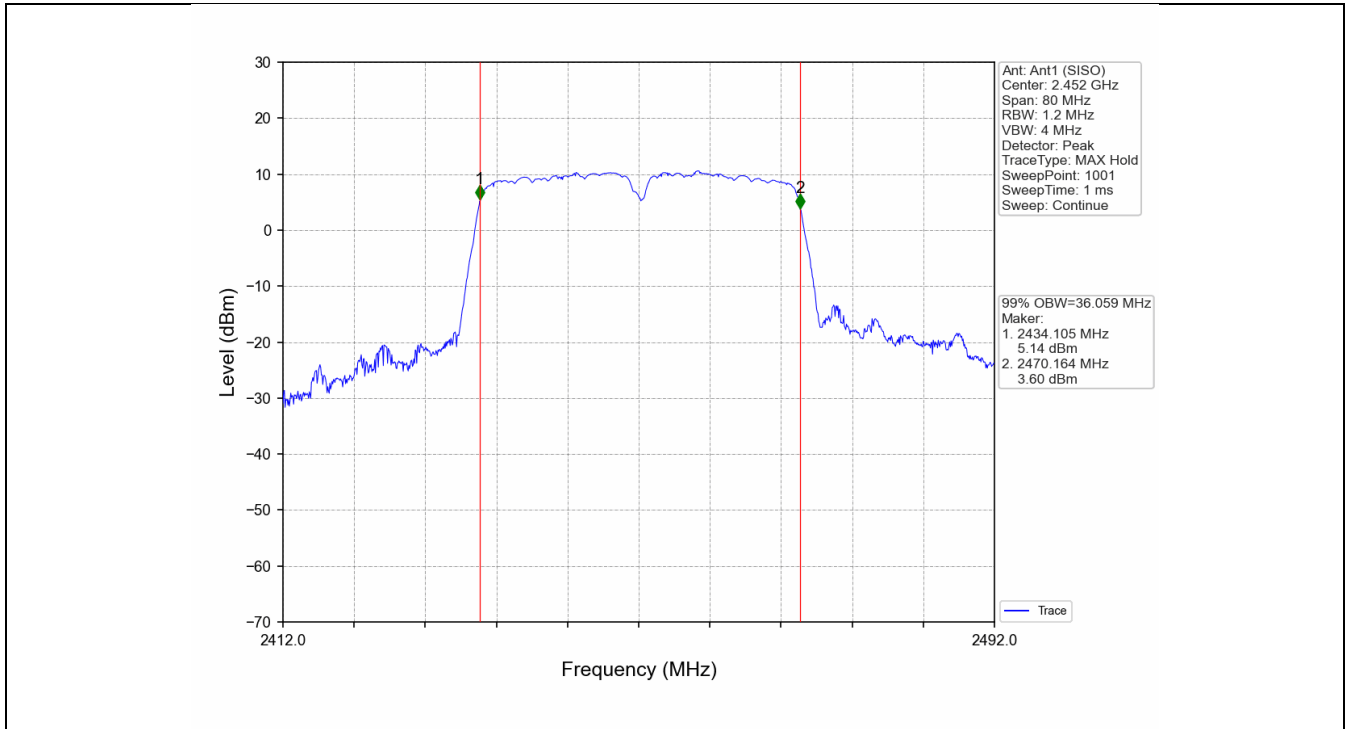
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.086	≥ 0.5	Pass
		2437	1	10.080	≥ 0.5	Pass
		2462	1	10.090	≥ 0.5	Pass
802.11g	SISO	2412	1	16.569	≥ 0.5	Pass
		2437	1	16.565	≥ 0.5	Pass
		2462	1	16.554	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.732	≥ 0.5	Pass
		2437	1	17.727	≥ 0.5	Pass
		2462	1	17.734	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.401	≥ 0.5	Pass
		2437	1	36.392	≥ 0.5	Pass
		2452	1	36.397	≥ 0.5	Pass



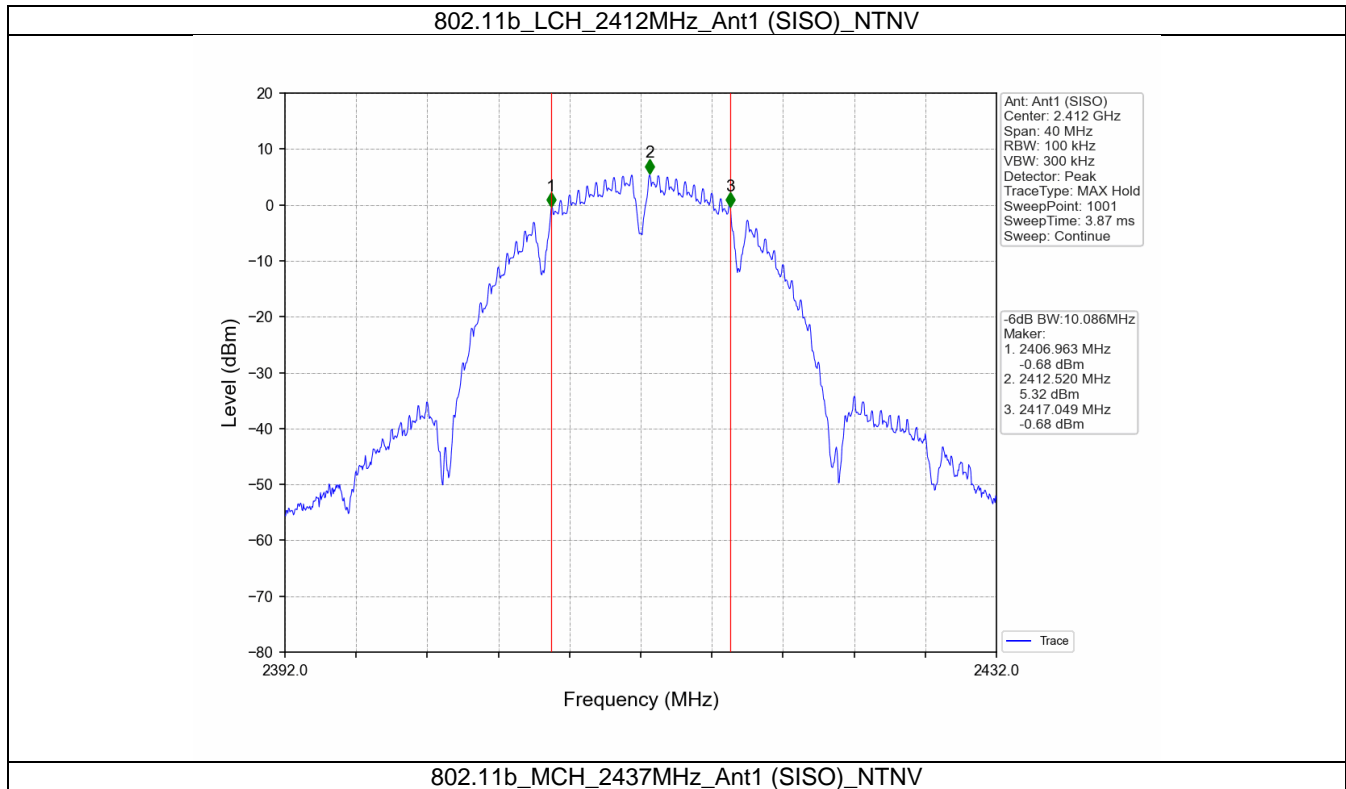
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2.2.2 Test Graph

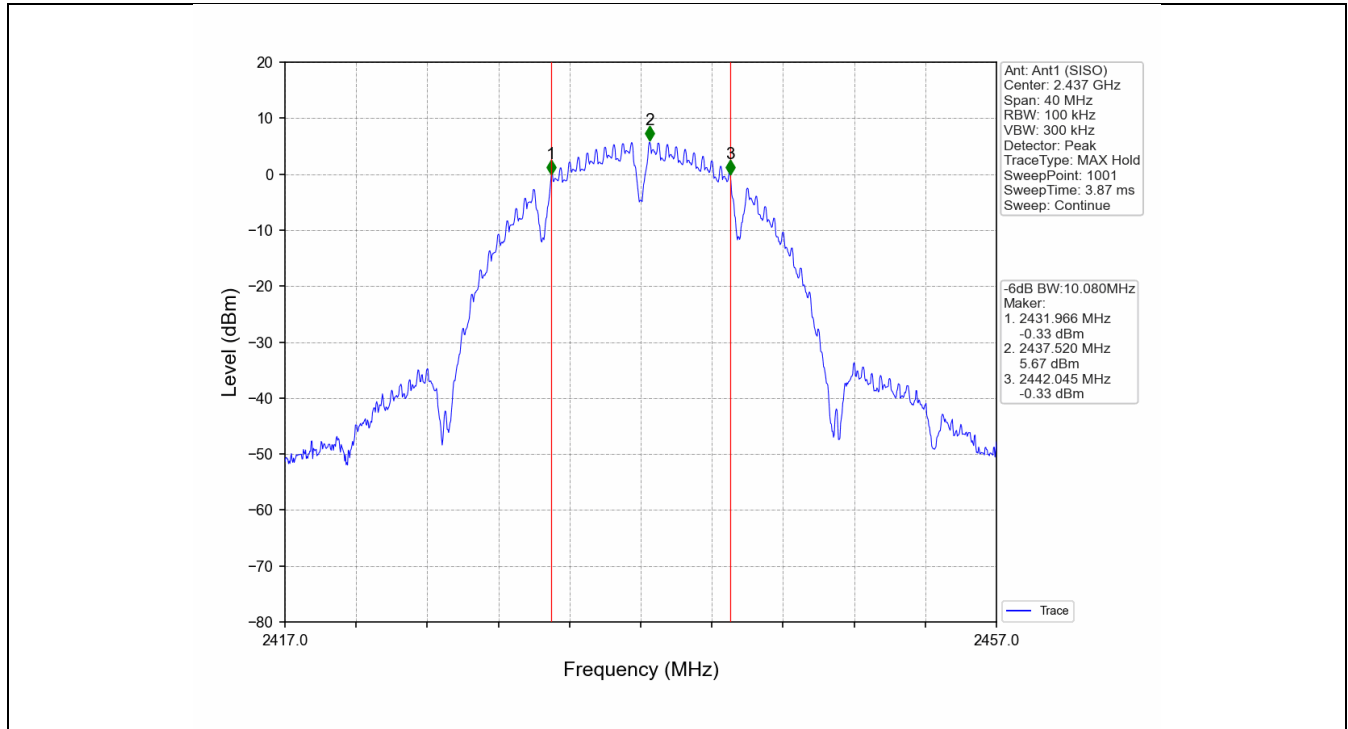


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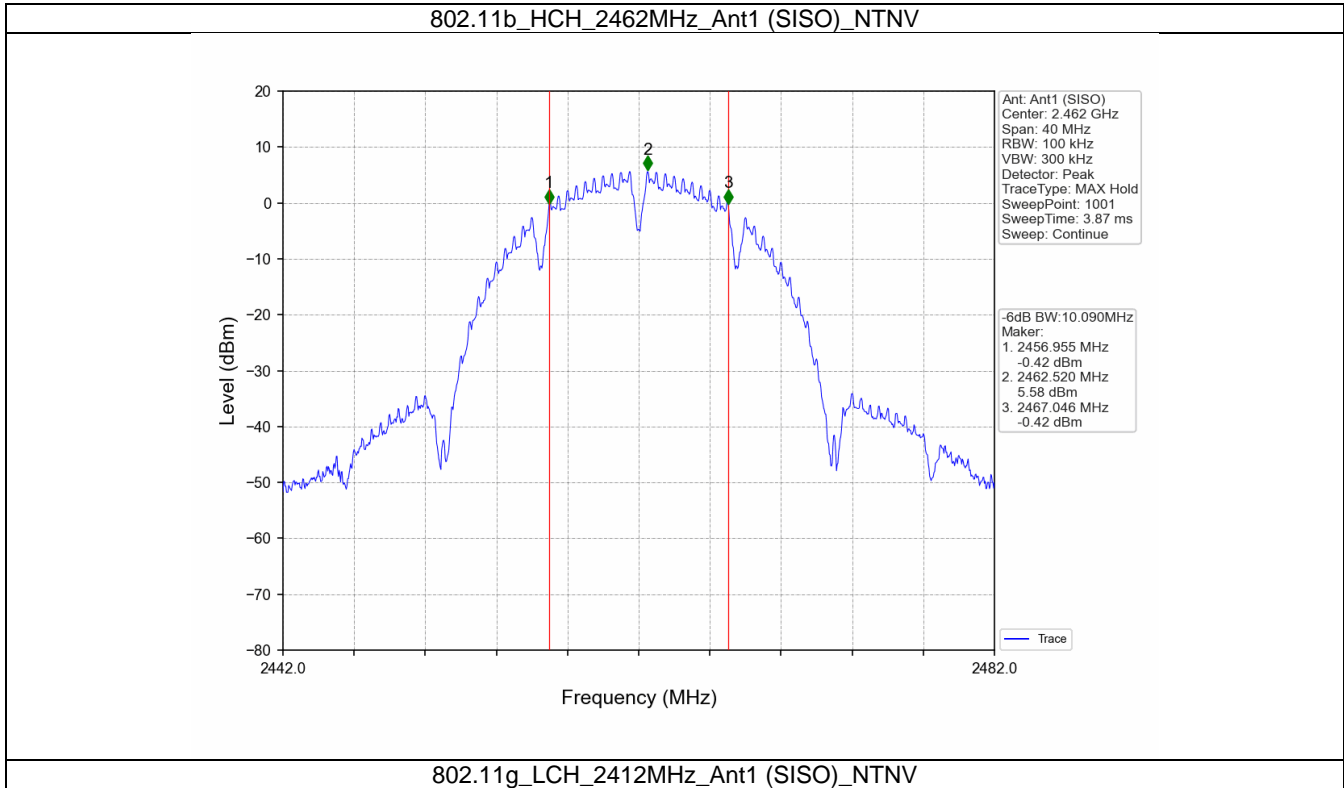


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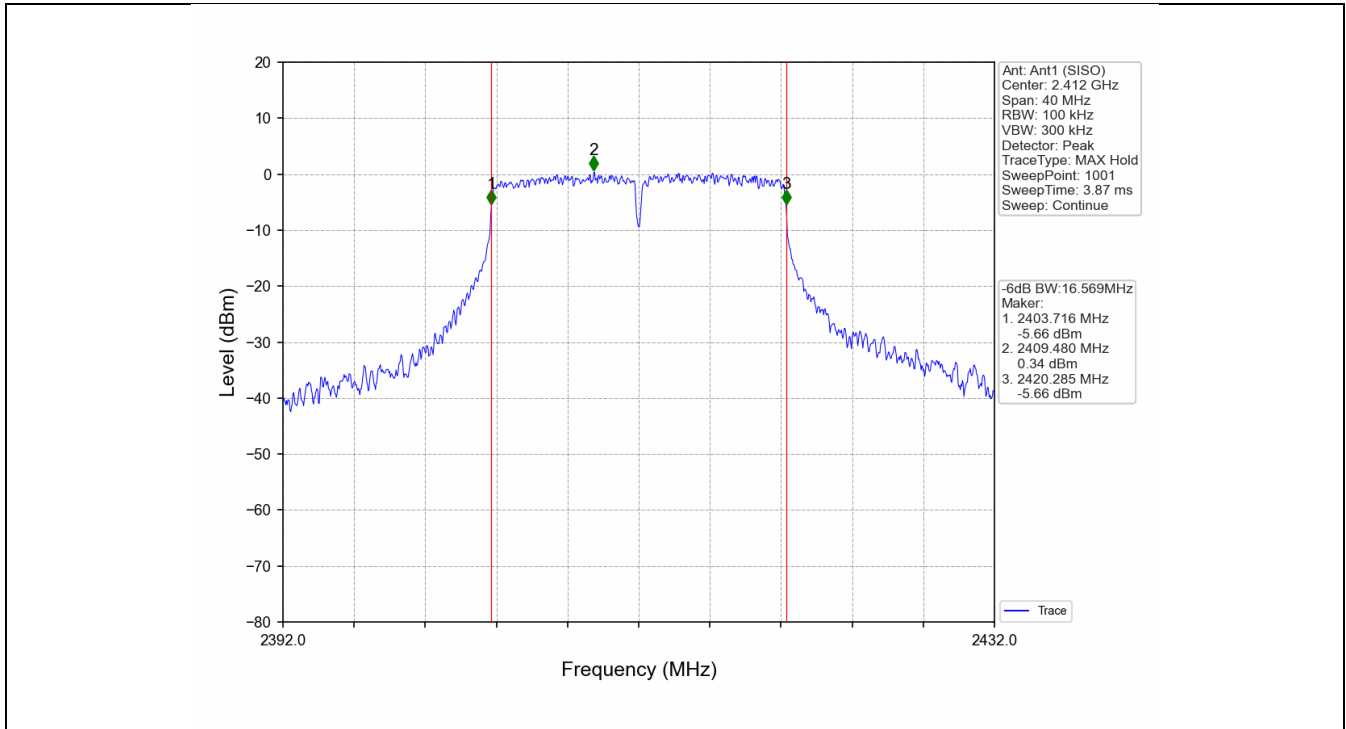


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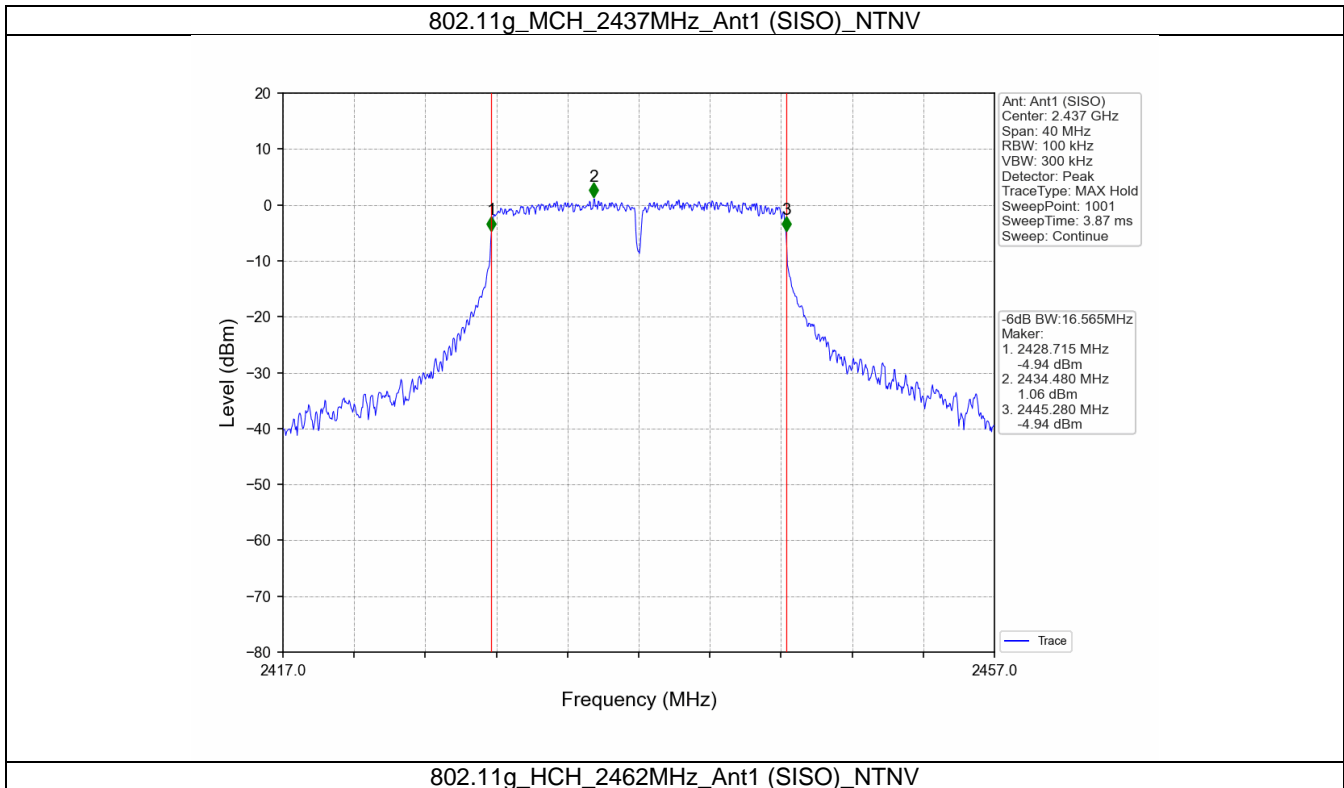
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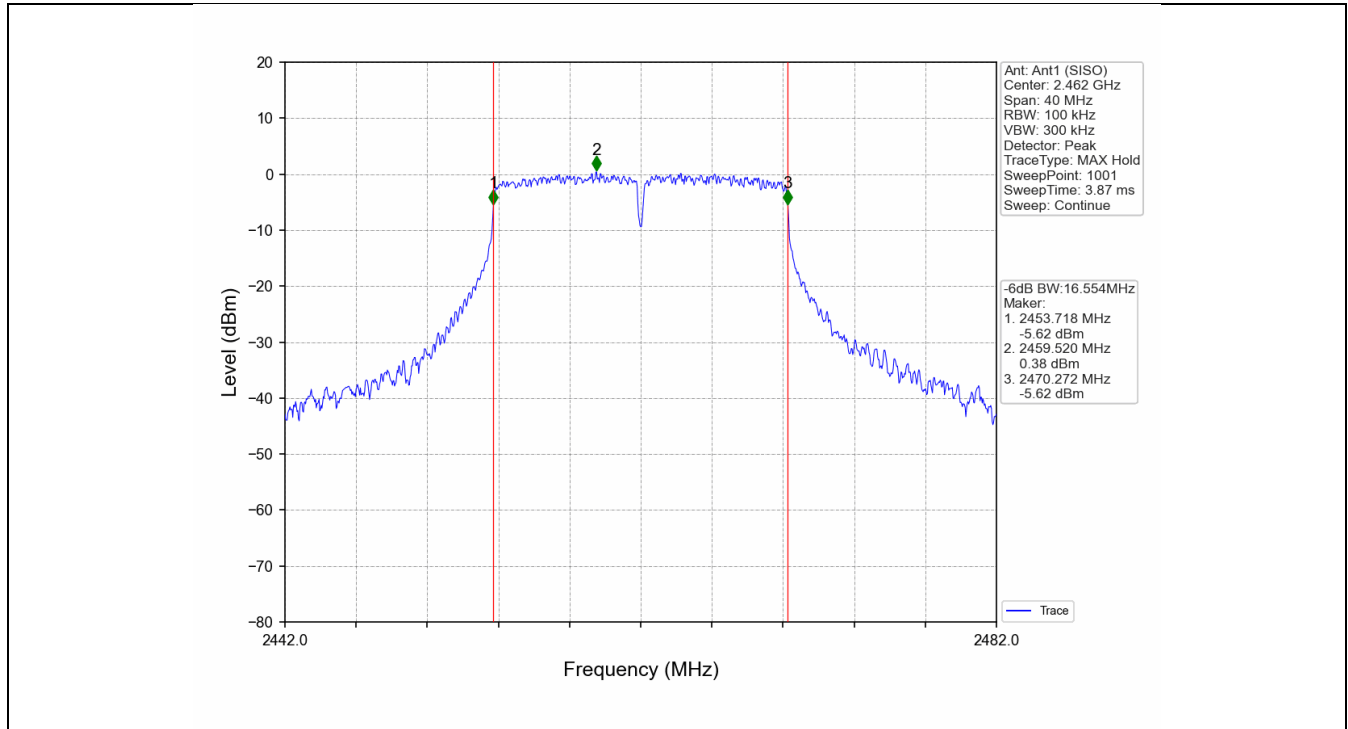


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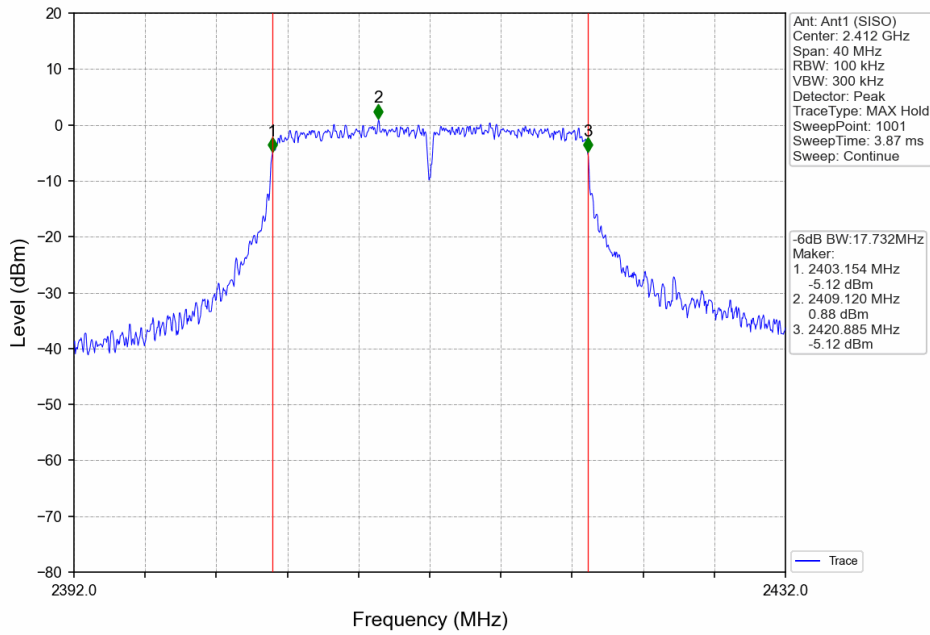
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

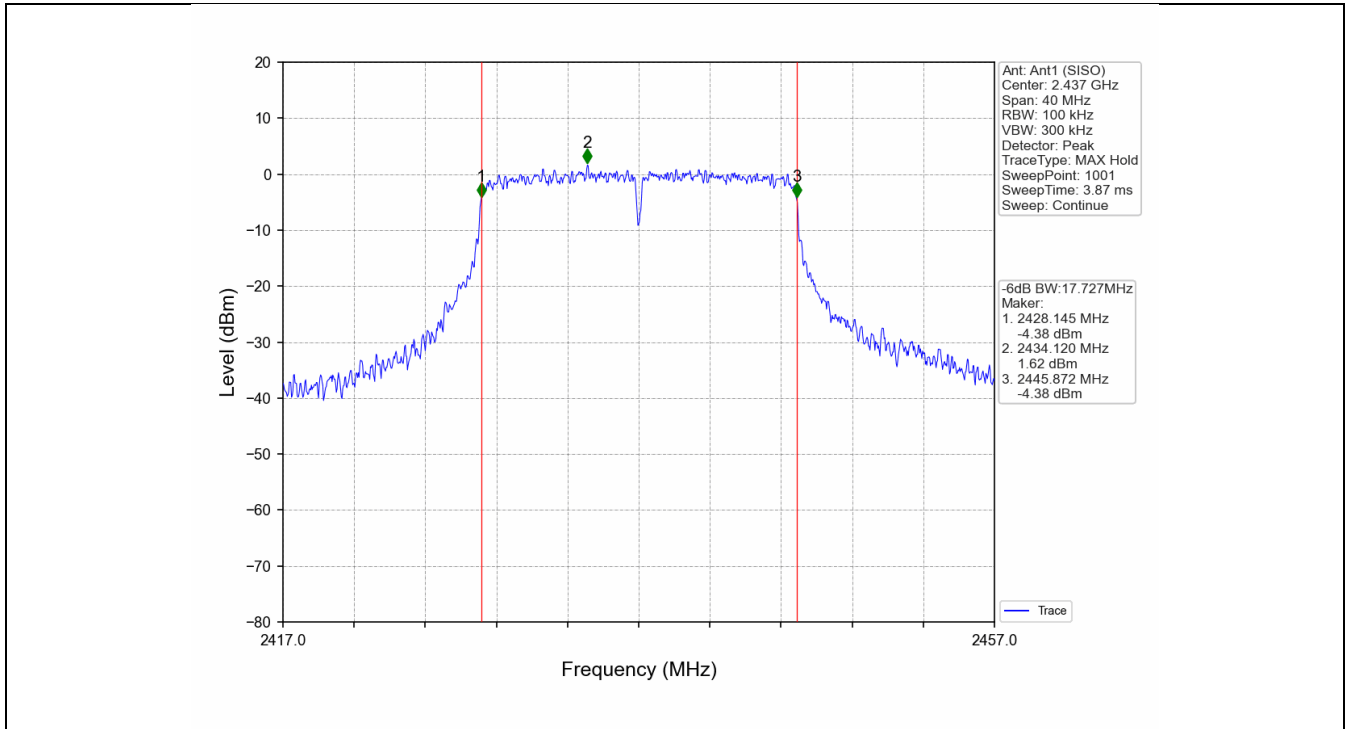


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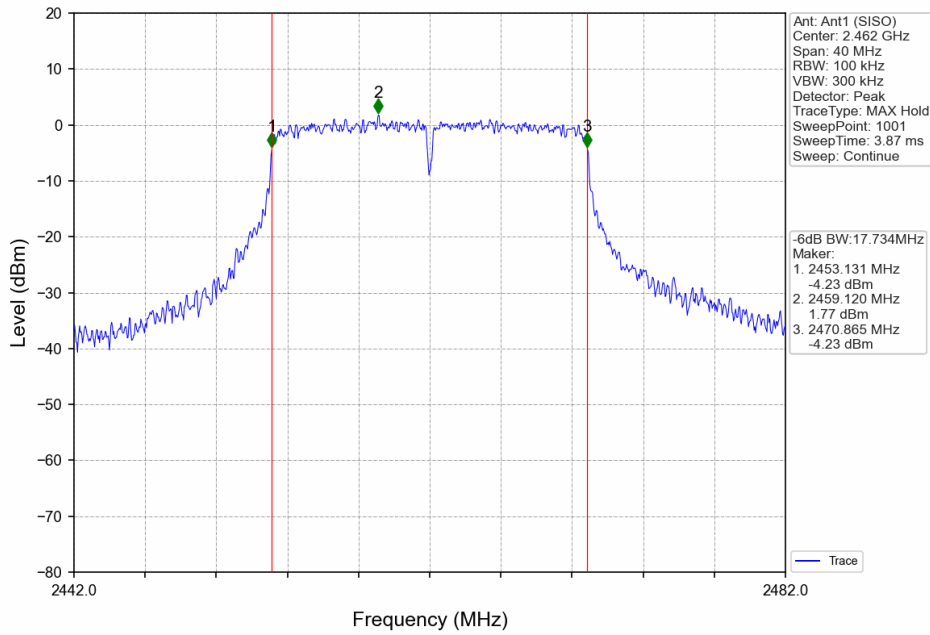
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

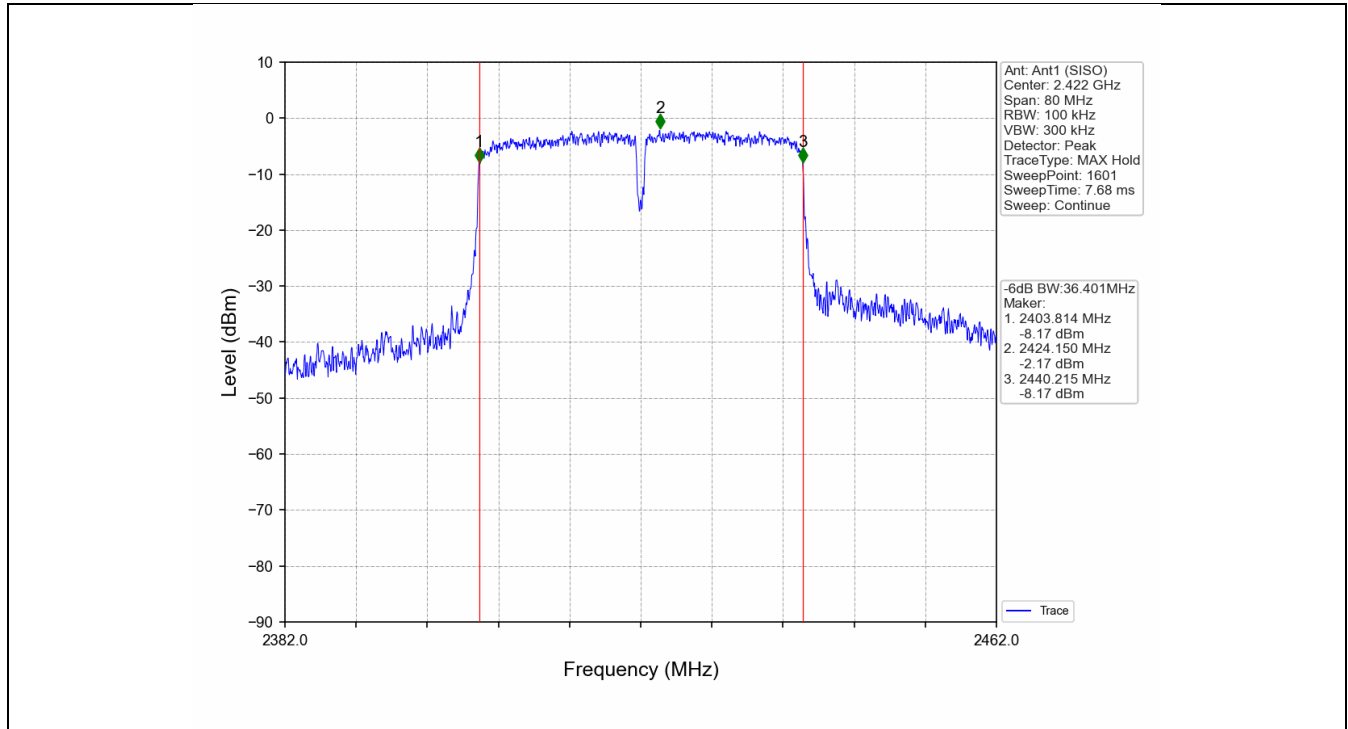


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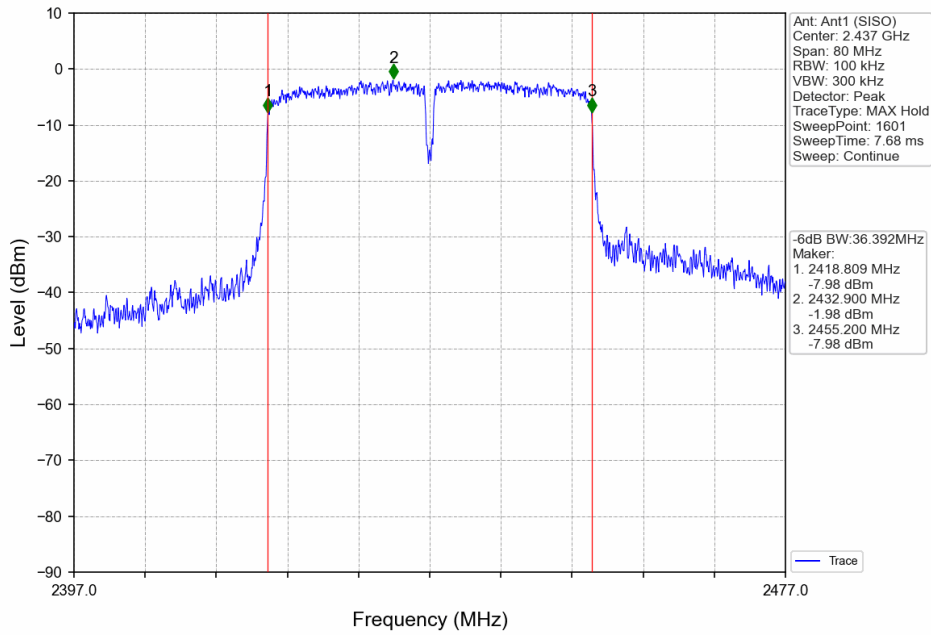
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

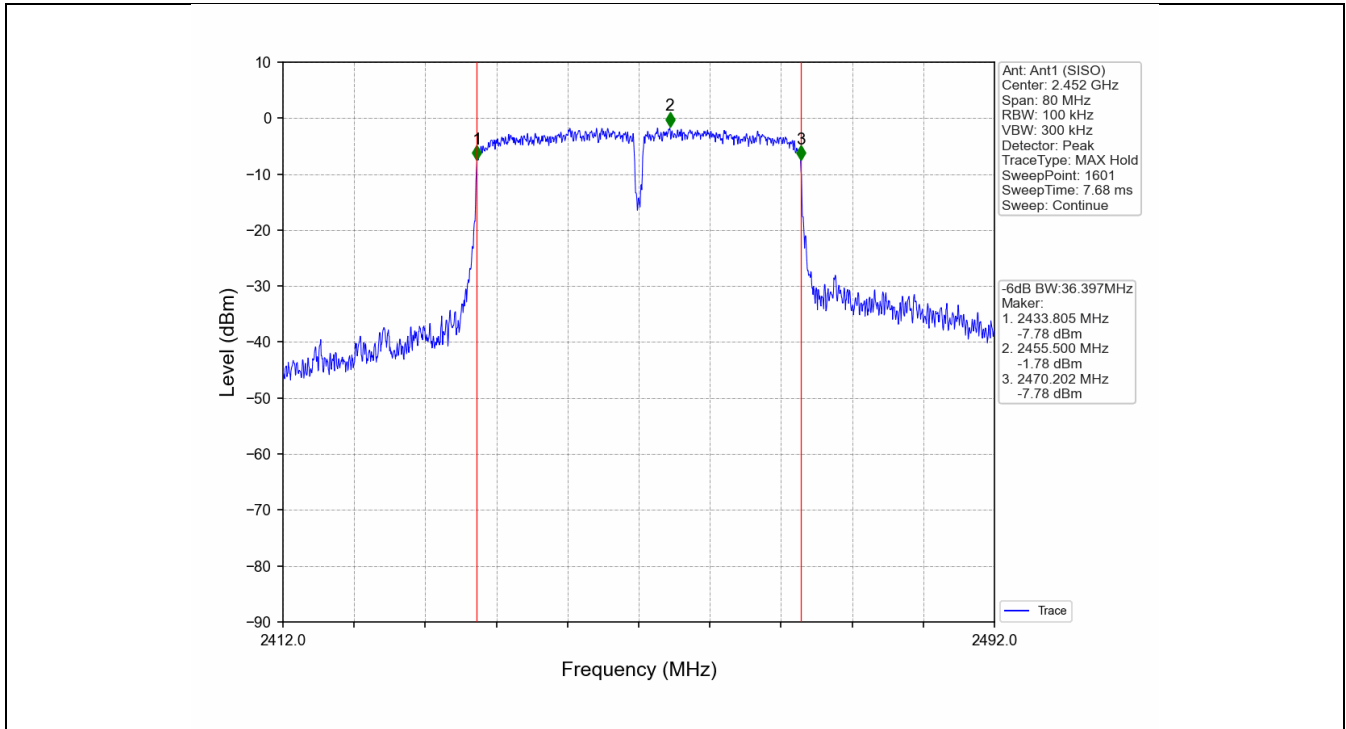


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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	15.06	<=30	Pass
		2437	15.39	<=30	Pass
		2462	15.34	<=30	Pass
802.11g	SISO	2412	14.50	<=30	Pass
		2437	15.19	<=30	Pass
		2462	14.43	<=30	Pass
802.11n (HT20)	SISO	2412	14.55	<=30	Pass
		2437	15.25	<=30	Pass
		2462	15.43	<=30	Pass
802.11n (HT40)	SISO	2422	13.45	<=30	Pass
		2437	13.90	<=30	Pass
		2452	14.18	<=30	Pass

Note1: Antenna Gain: Ant1: 1.05dBi;

3.1.2 Test Graph

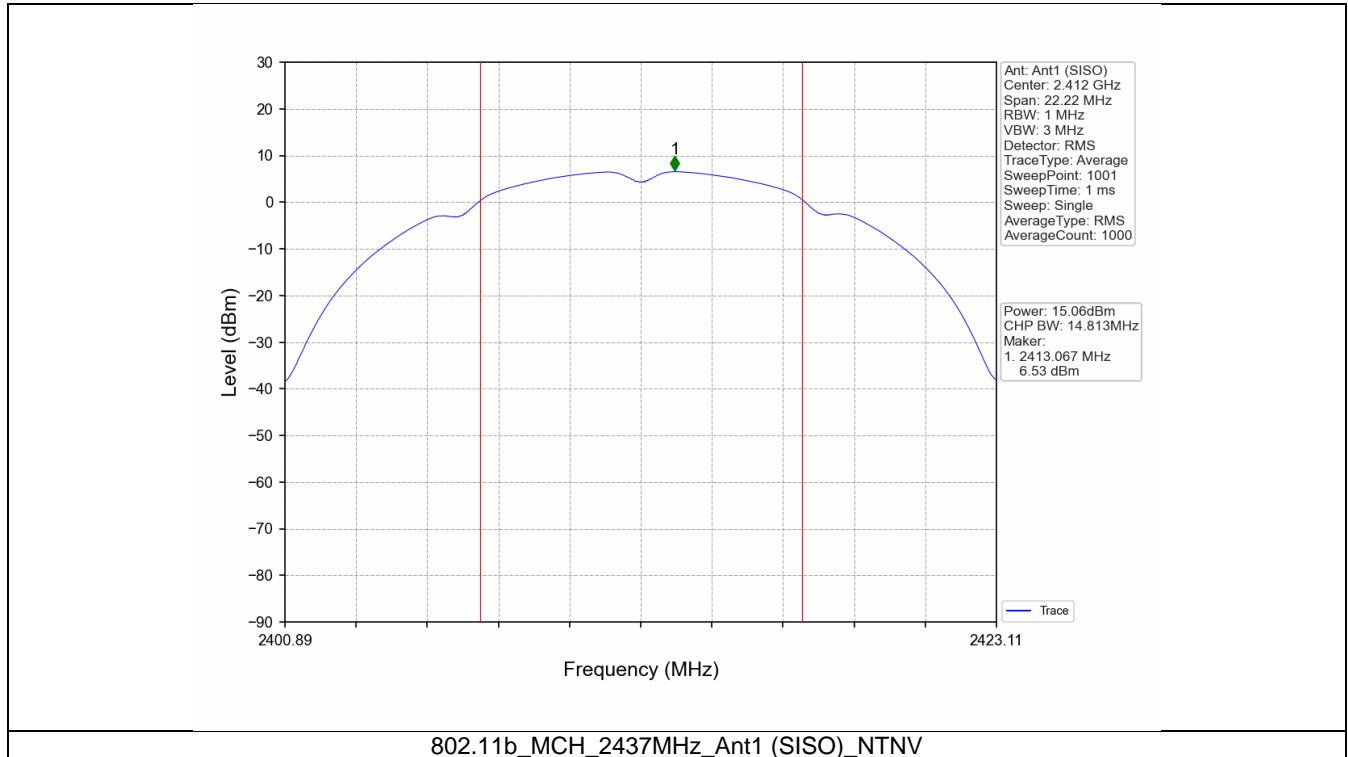
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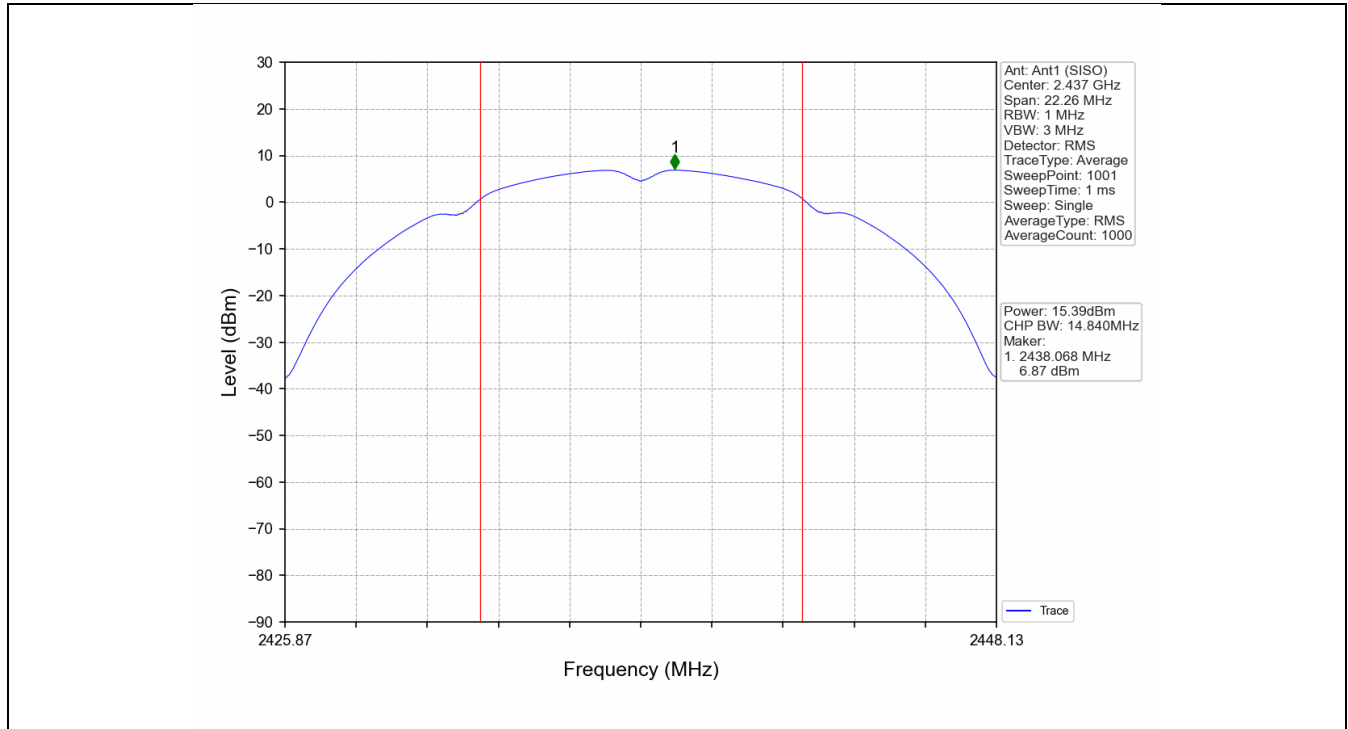
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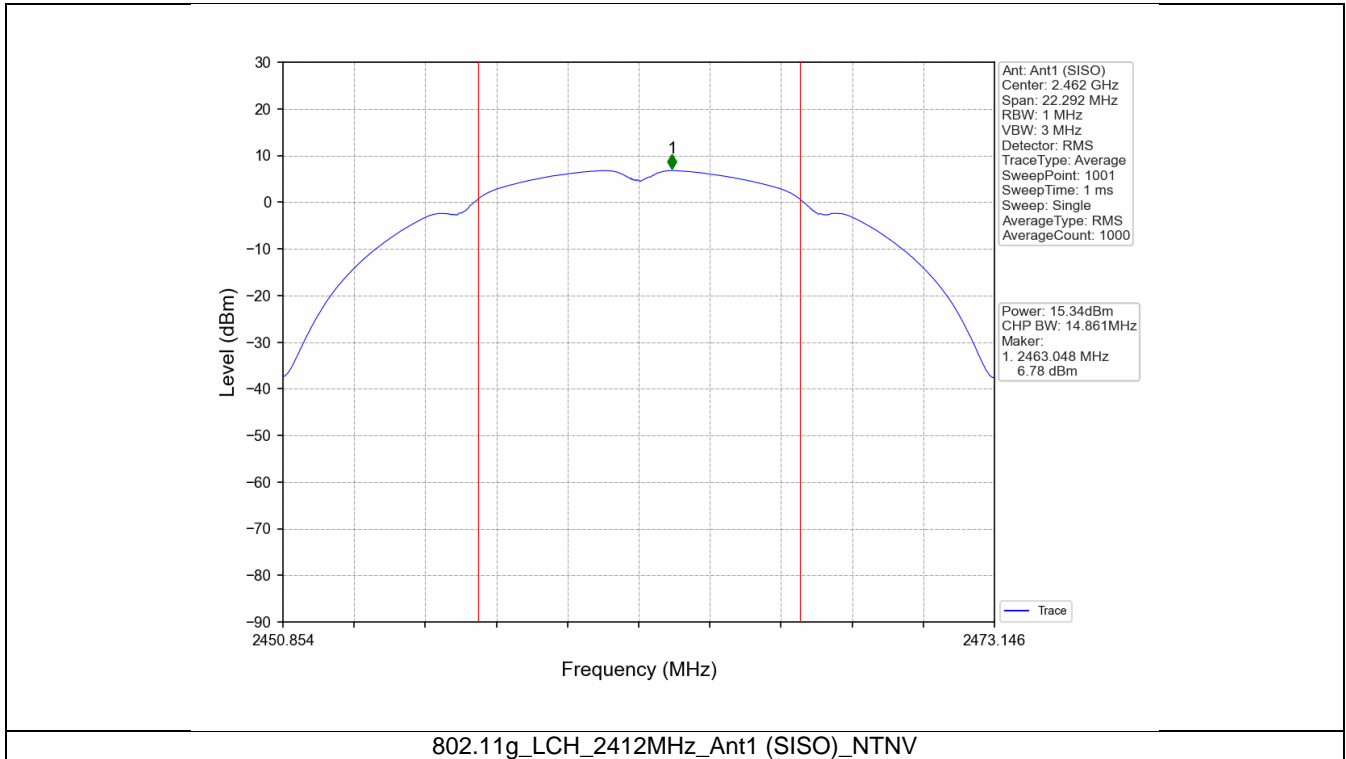
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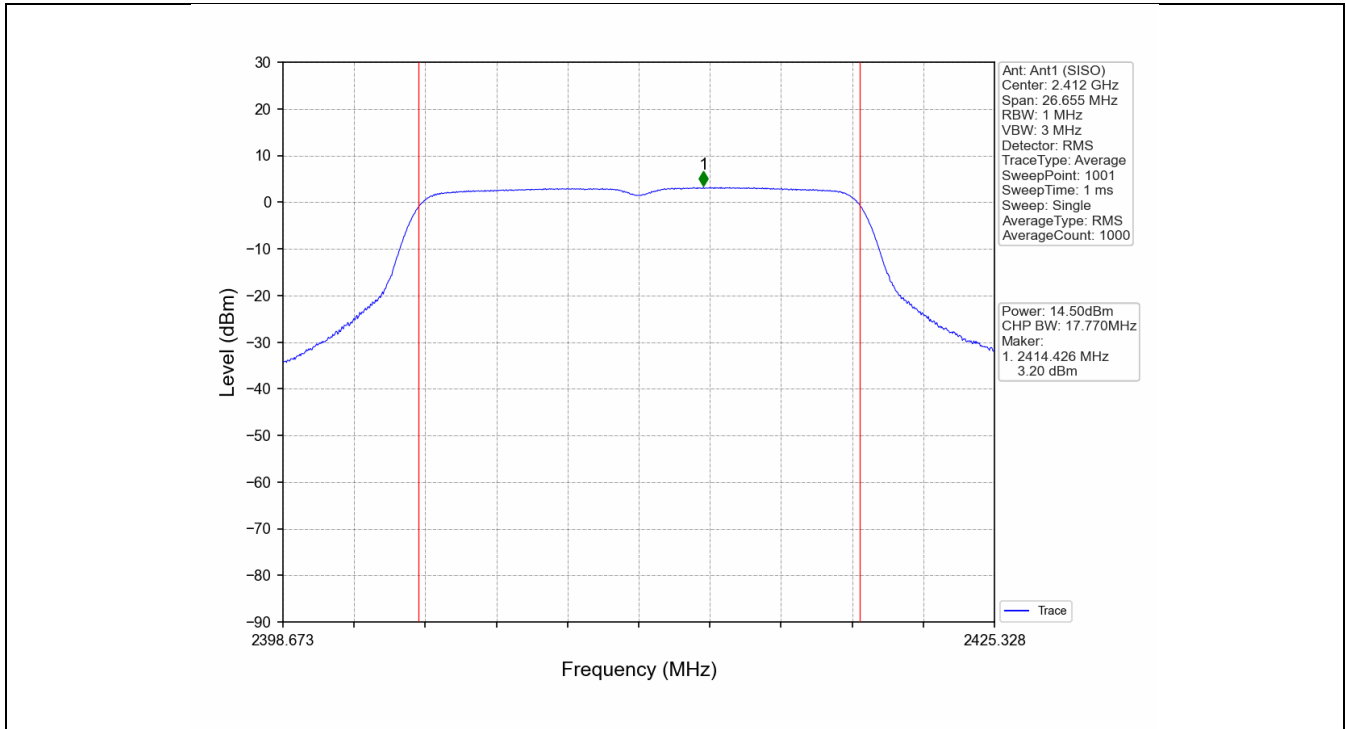
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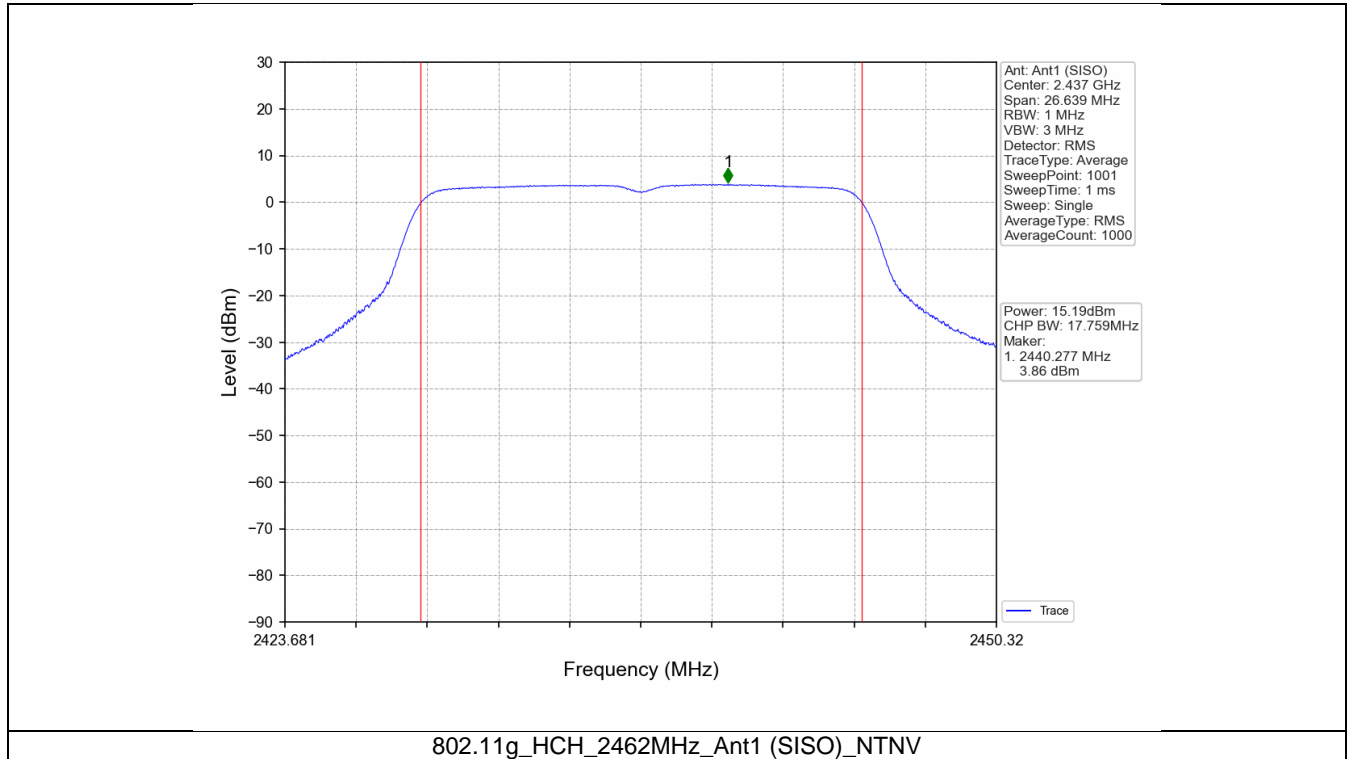
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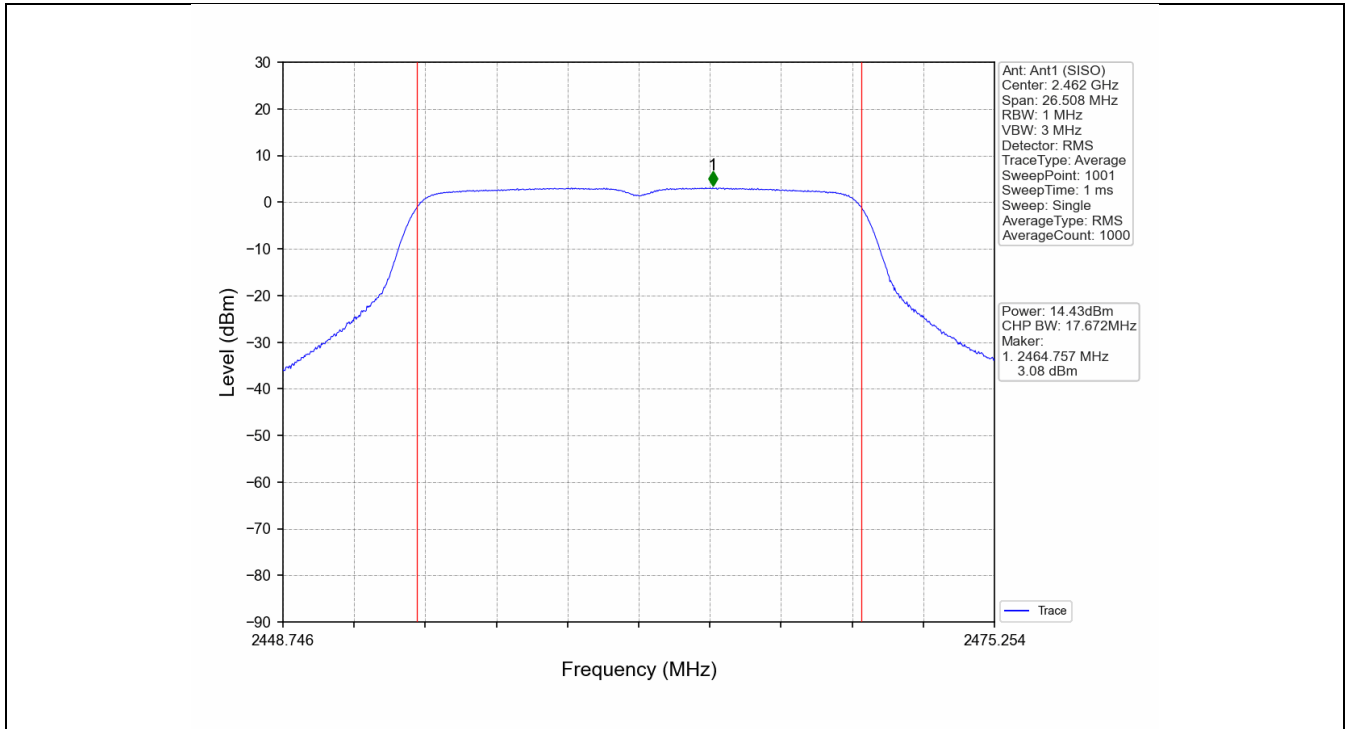


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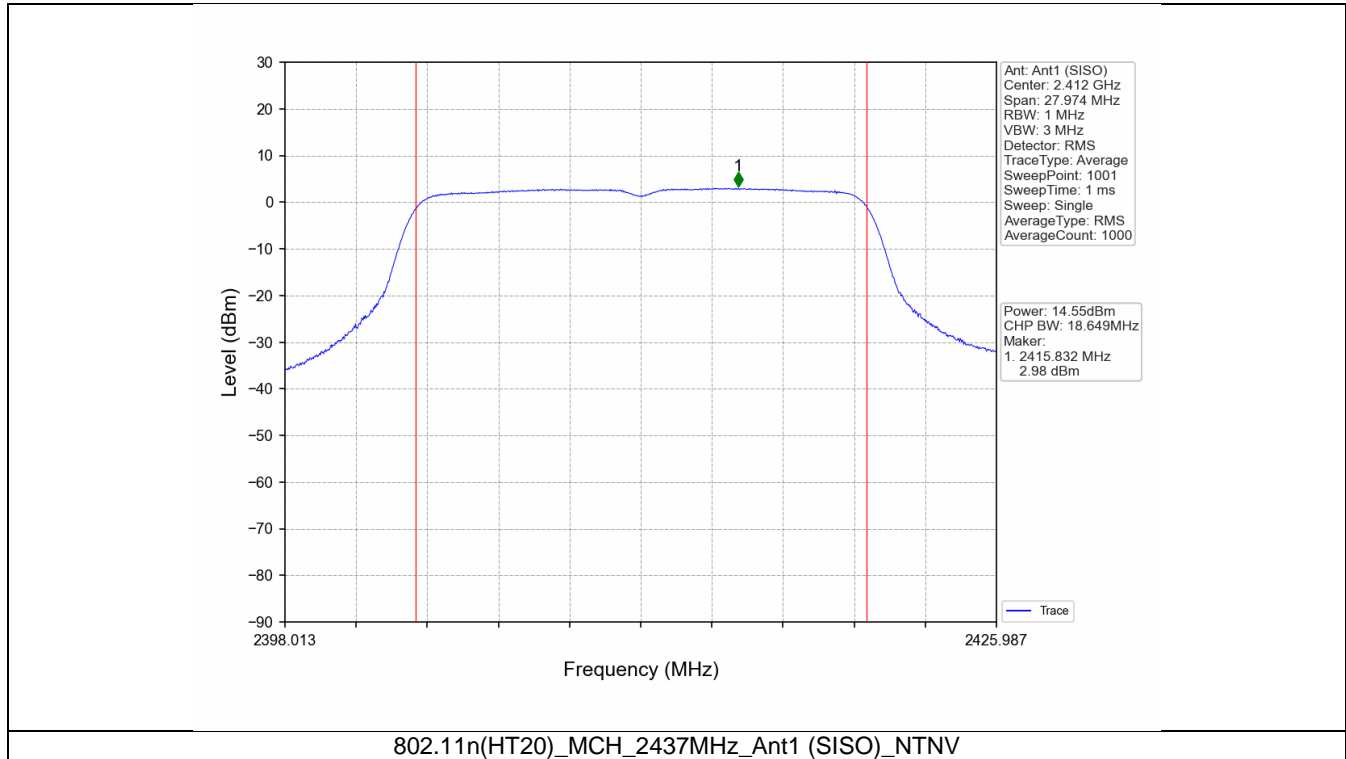
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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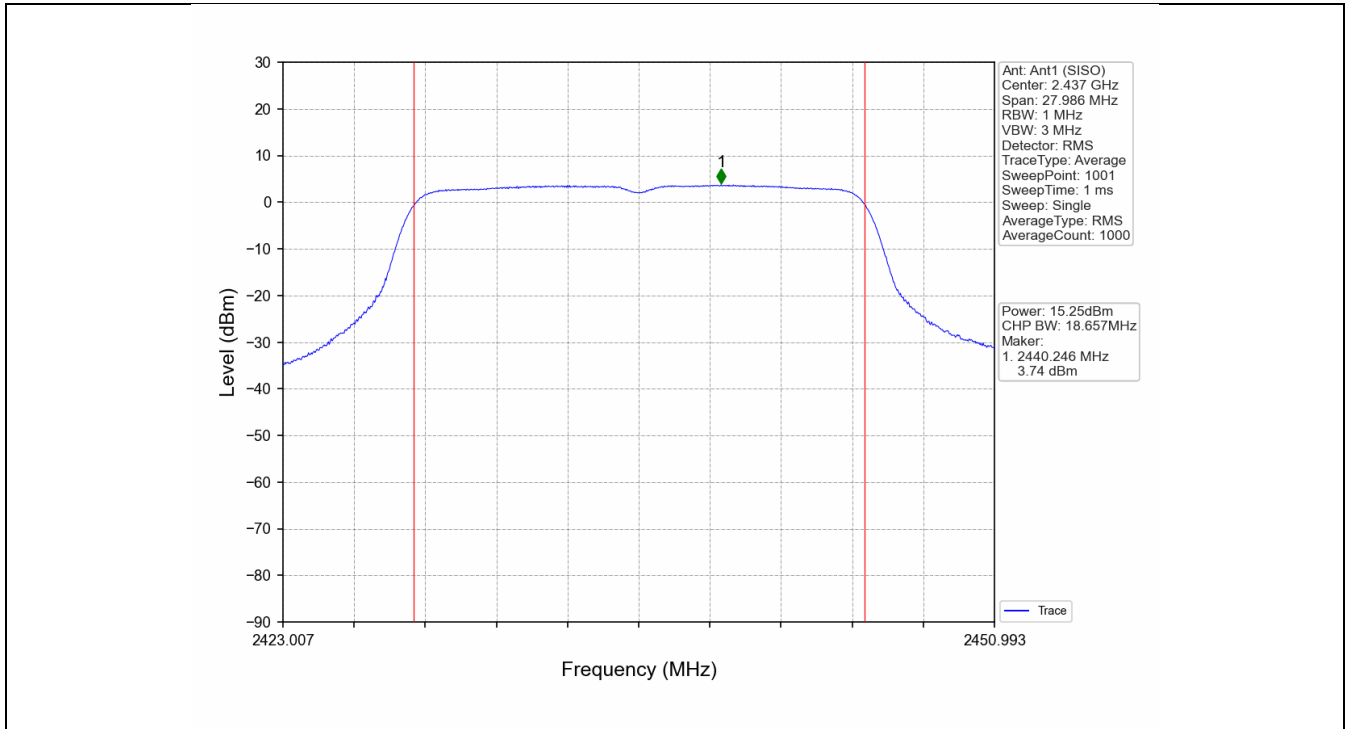
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

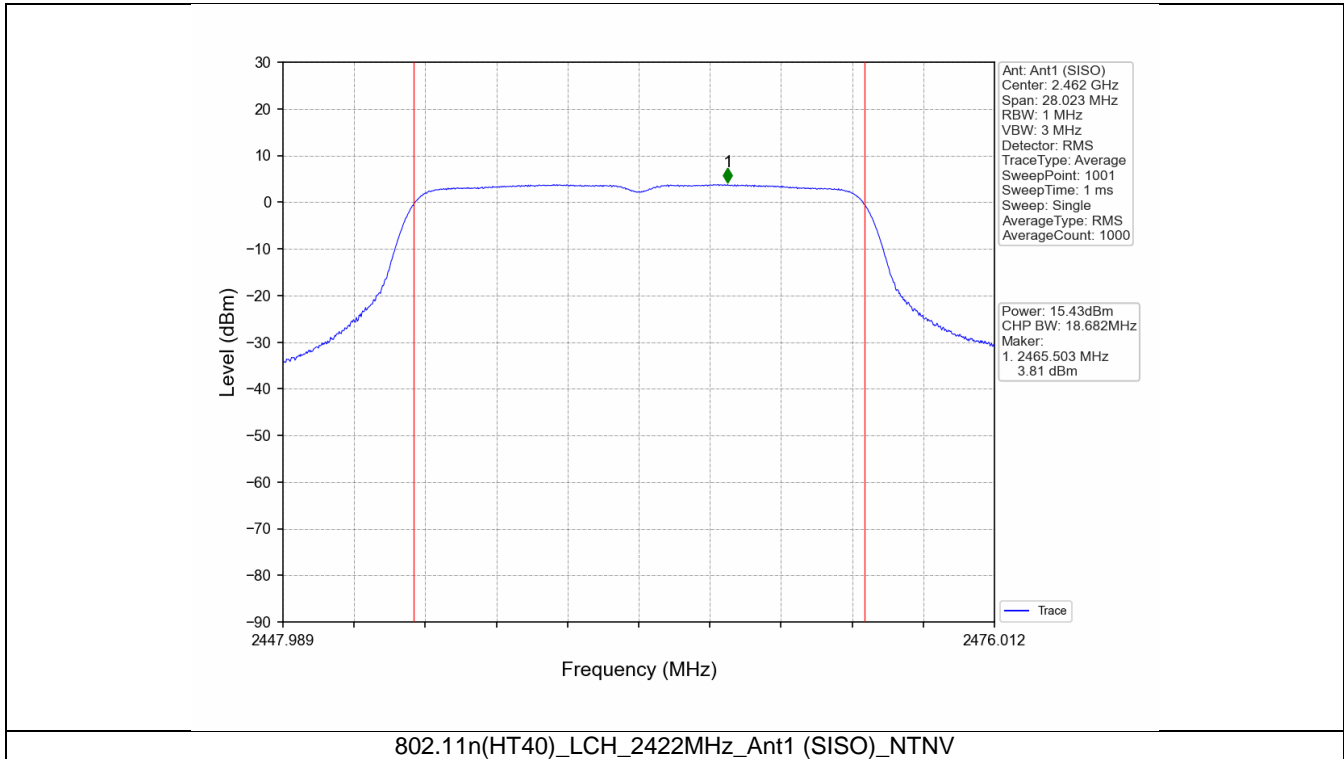


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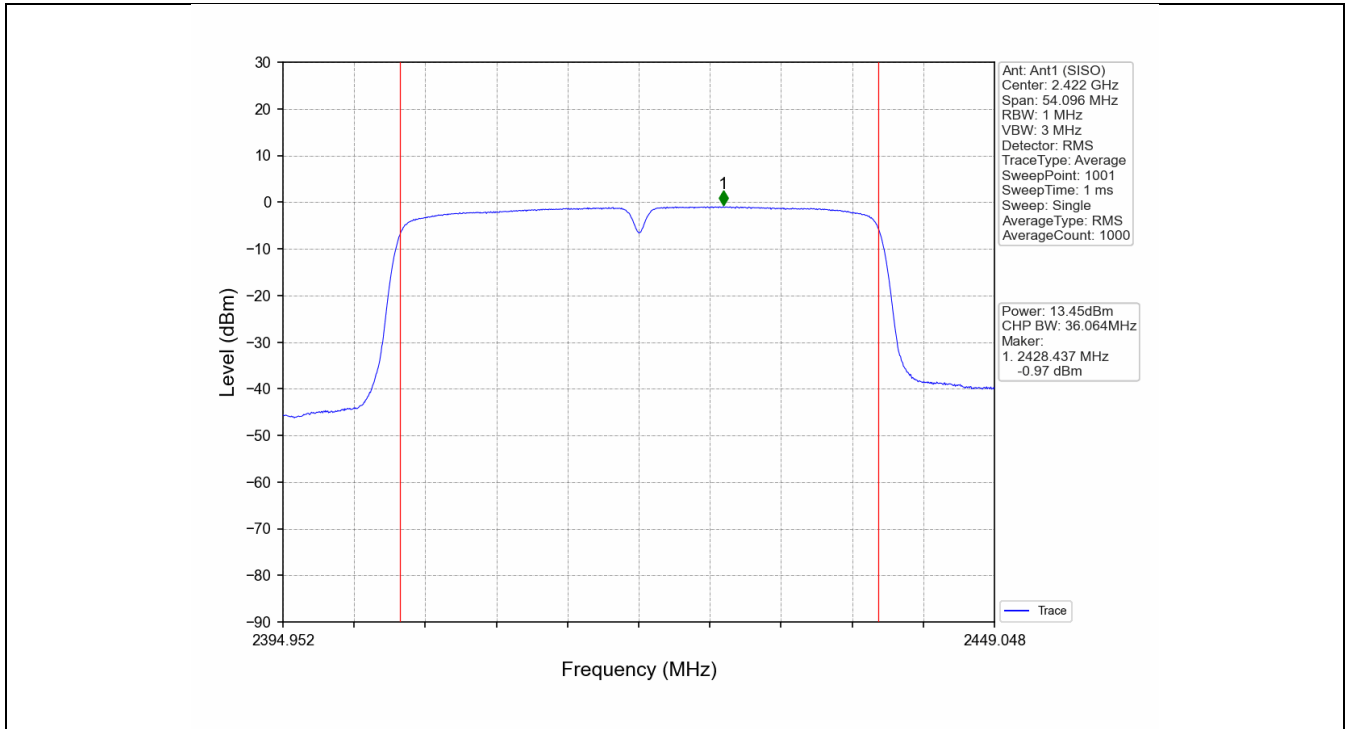


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

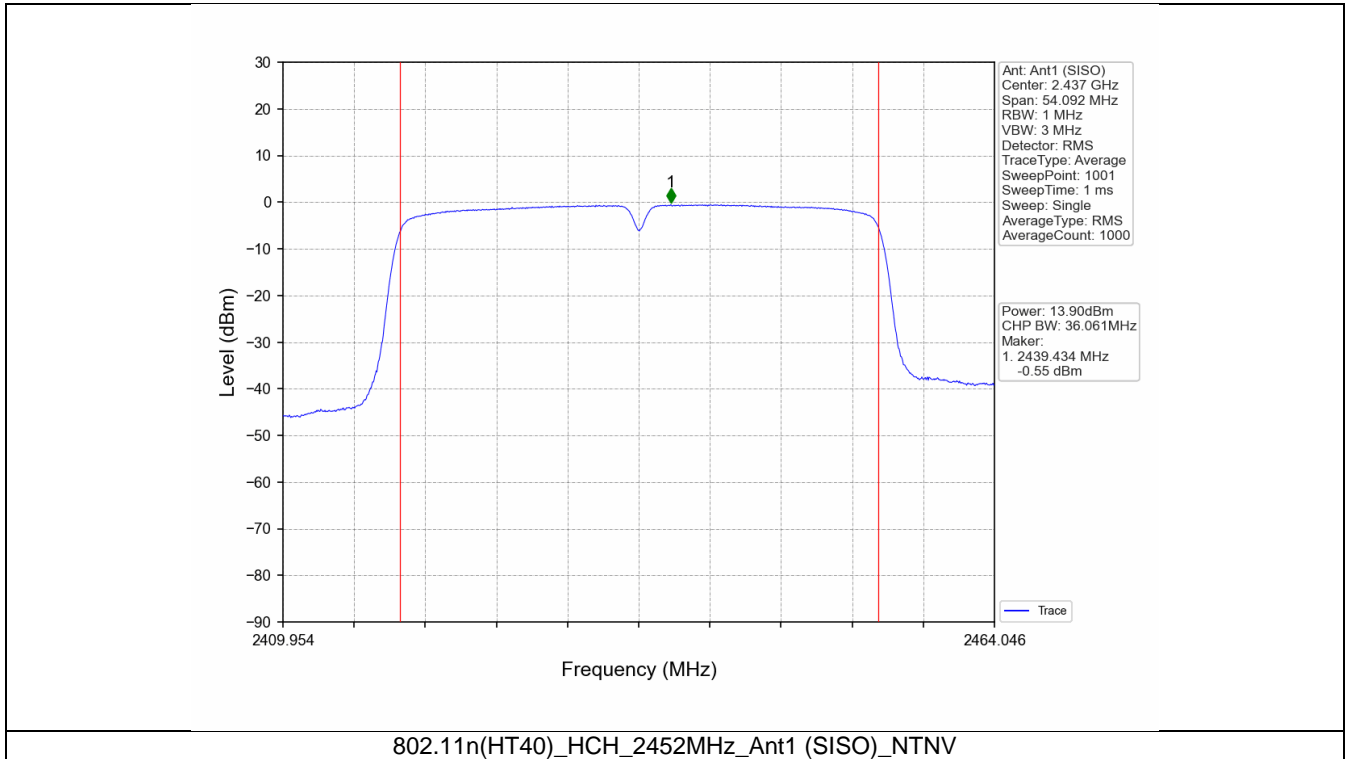


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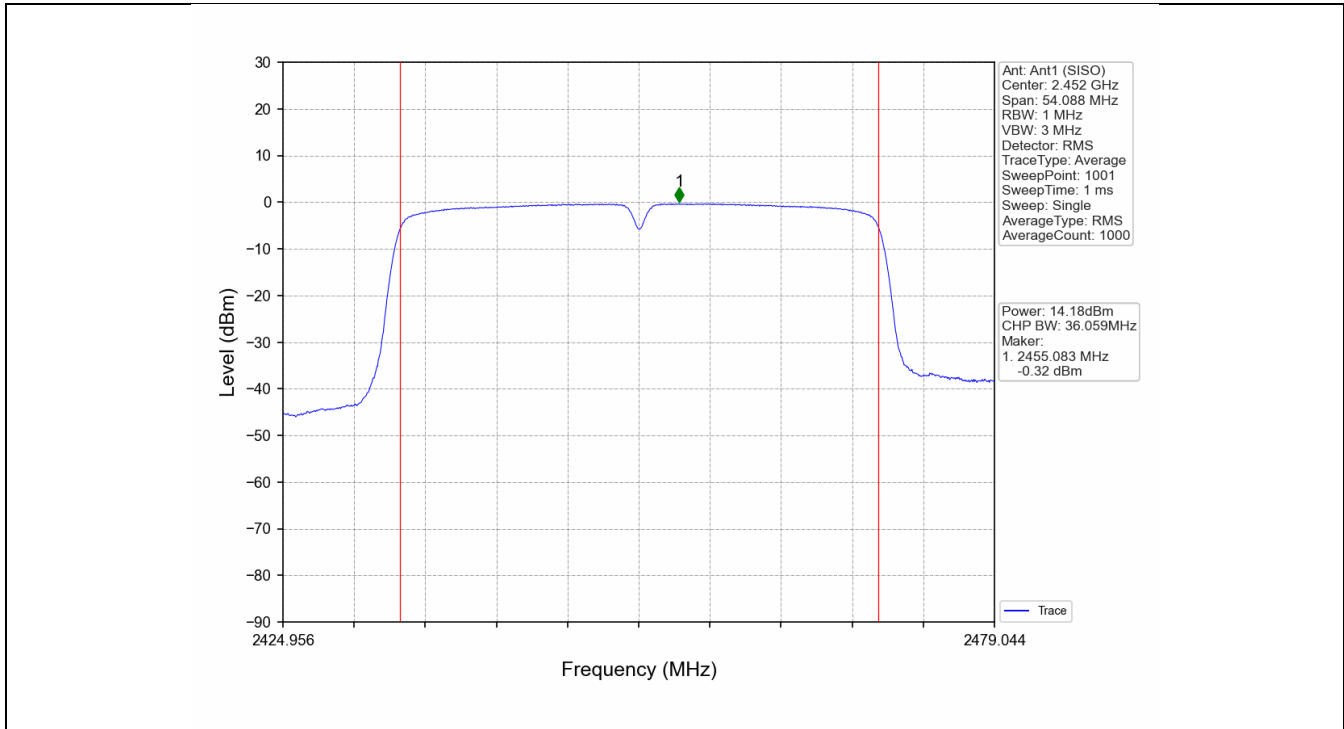
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-14.76	<=8	Pass
		2437	-14.47	<=8	Pass
		2462	-14.51	<=8	Pass
802.11g	SISO	2412	-14.09	<=8	Pass
		2437	-13.40	<=8	Pass
		2462	-14.05	<=8	Pass
802.11n (HT20)	SISO	2412	-13.77	<=8	Pass
		2437	-12.94	<=8	Pass
		2462	-12.70	<=8	Pass
802.11n (HT40)	SISO	2422	-14.53	<=8	Pass
		2437	-15.63	<=8	Pass
		2452	-14.01	<=8	Pass

Note1: Antenna Gain: Ant1: 1.05dBi;



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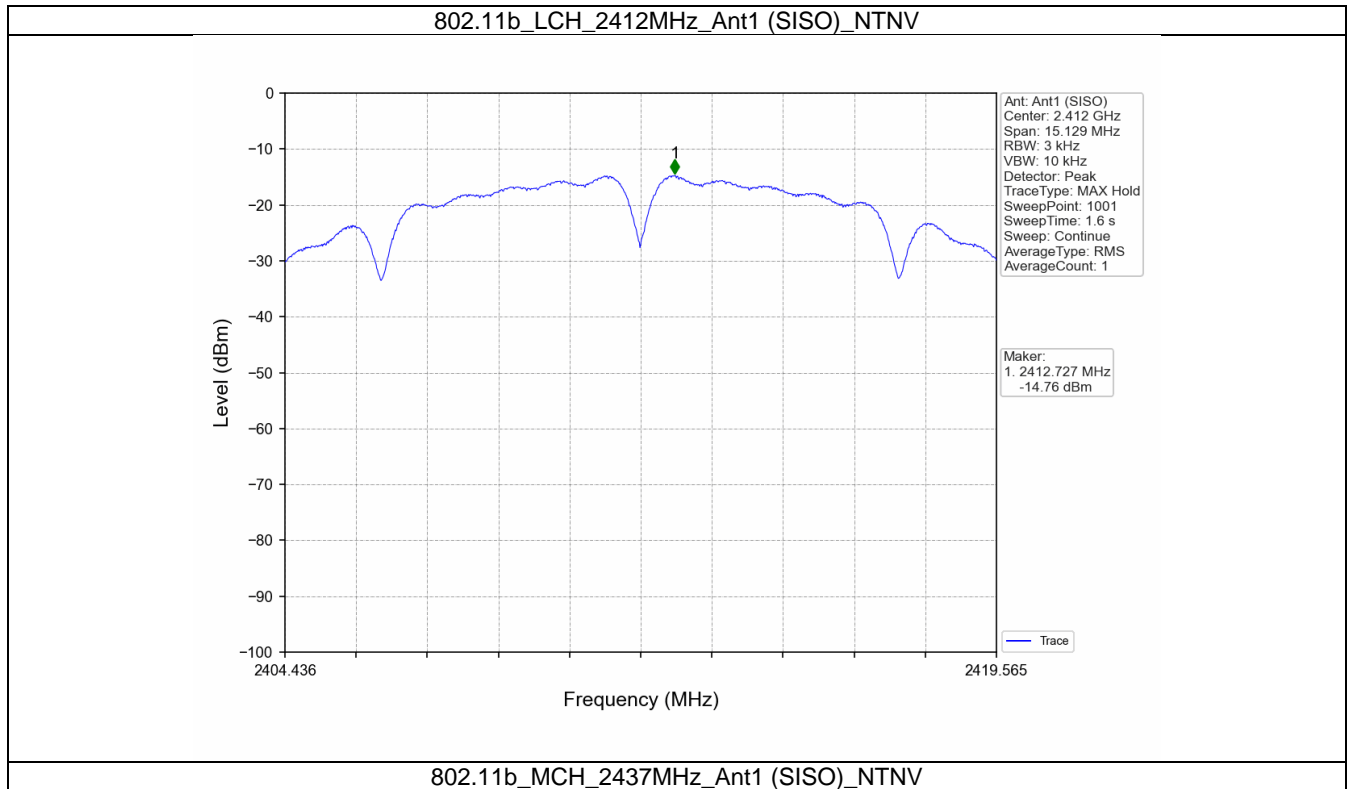
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4.1.2 Test Graph

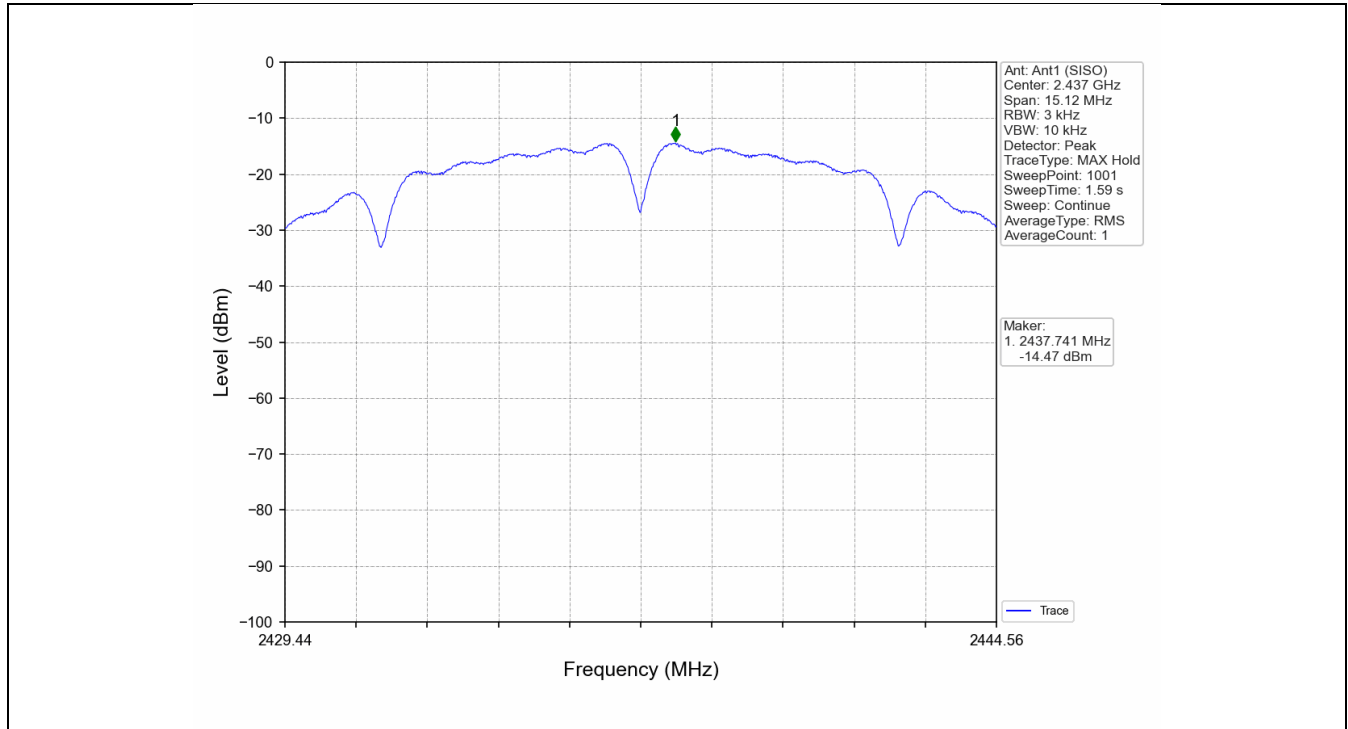


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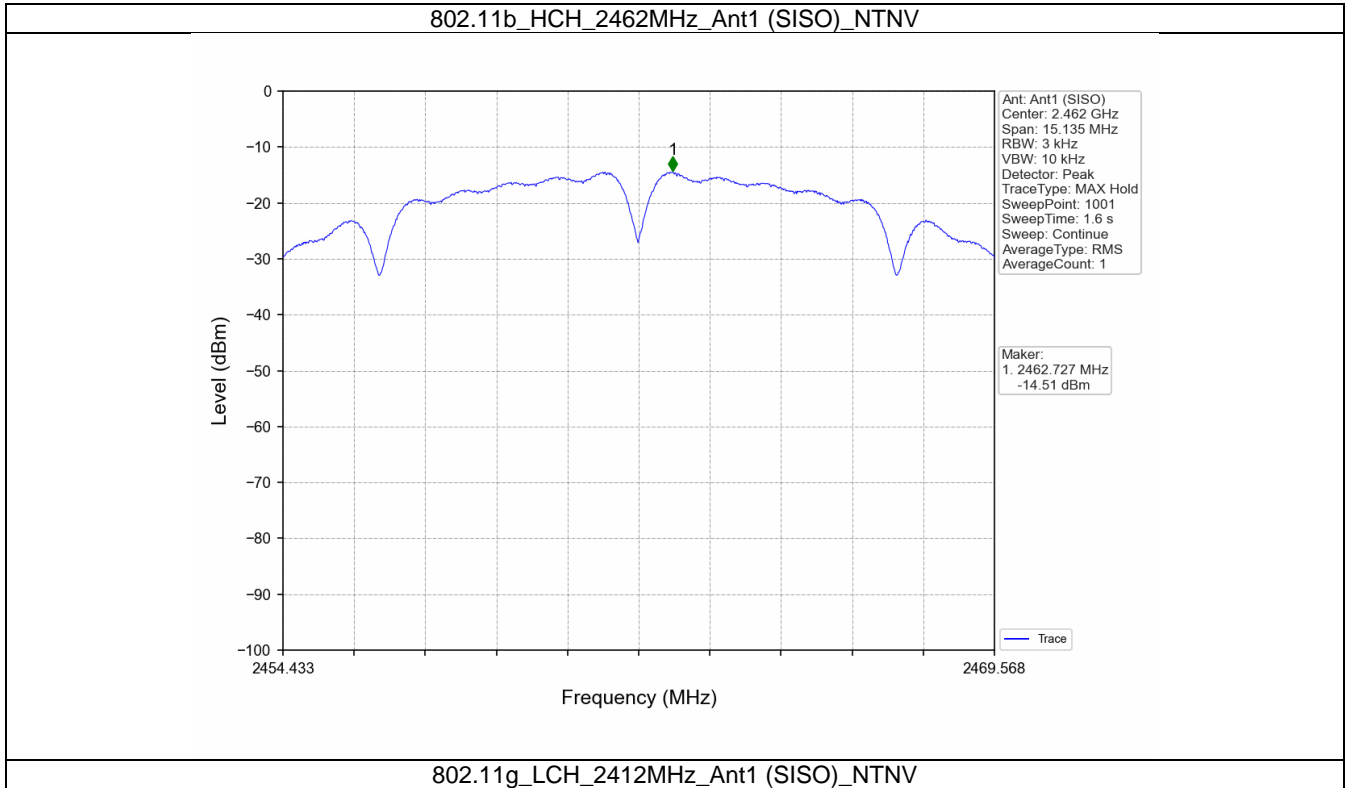
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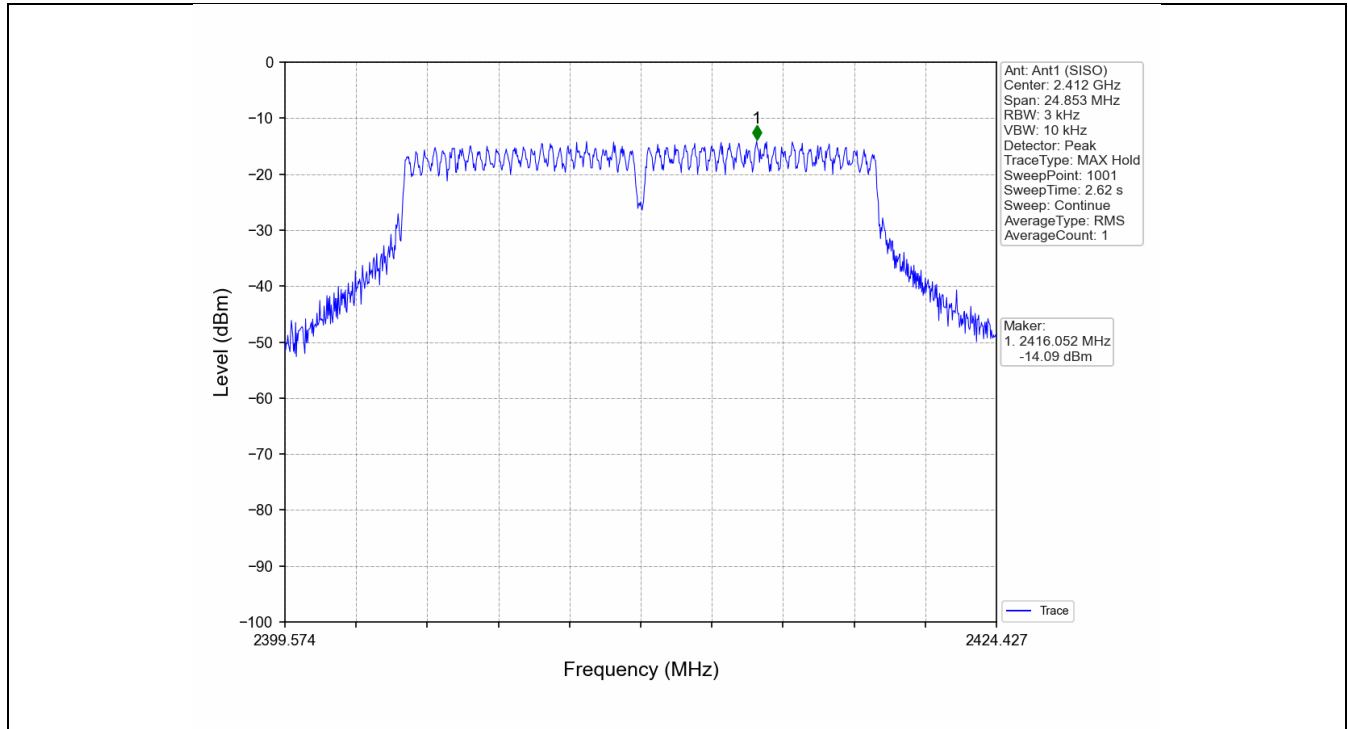


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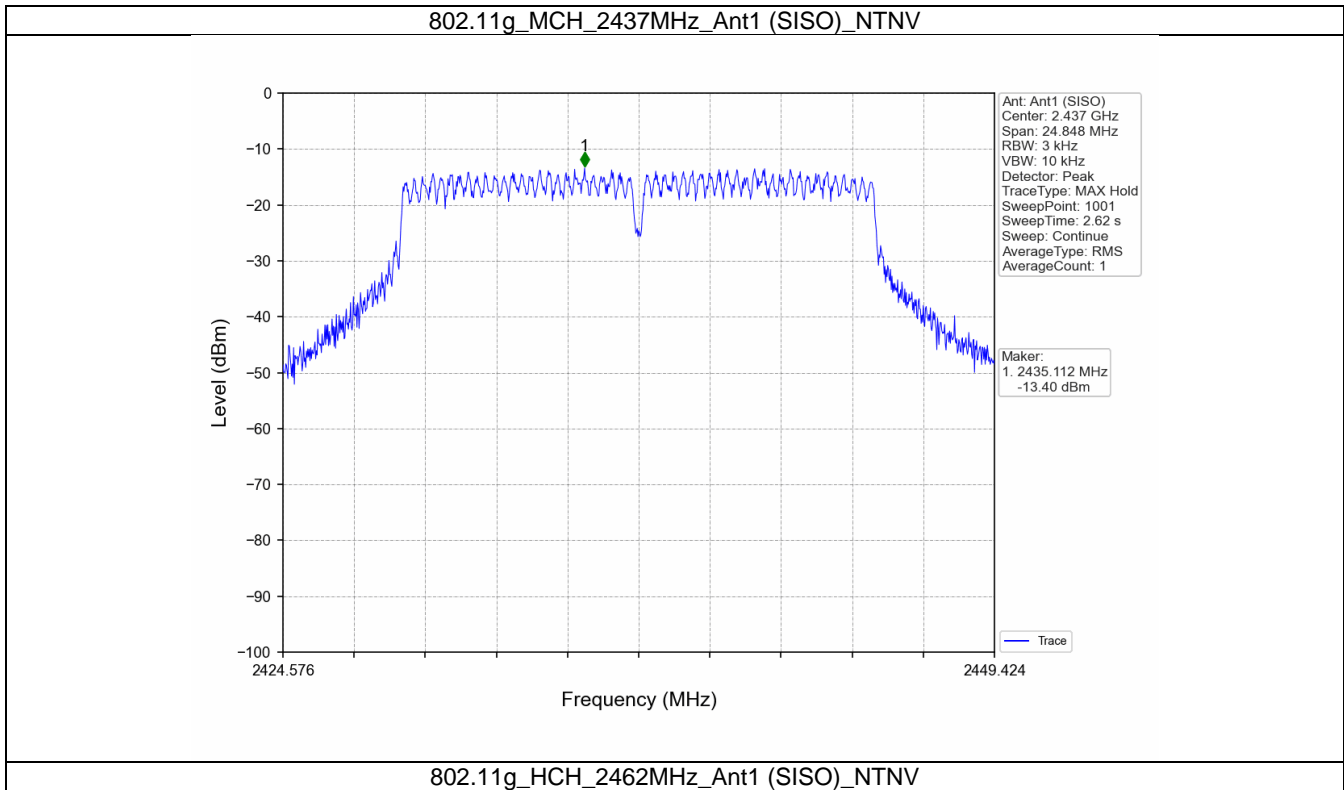
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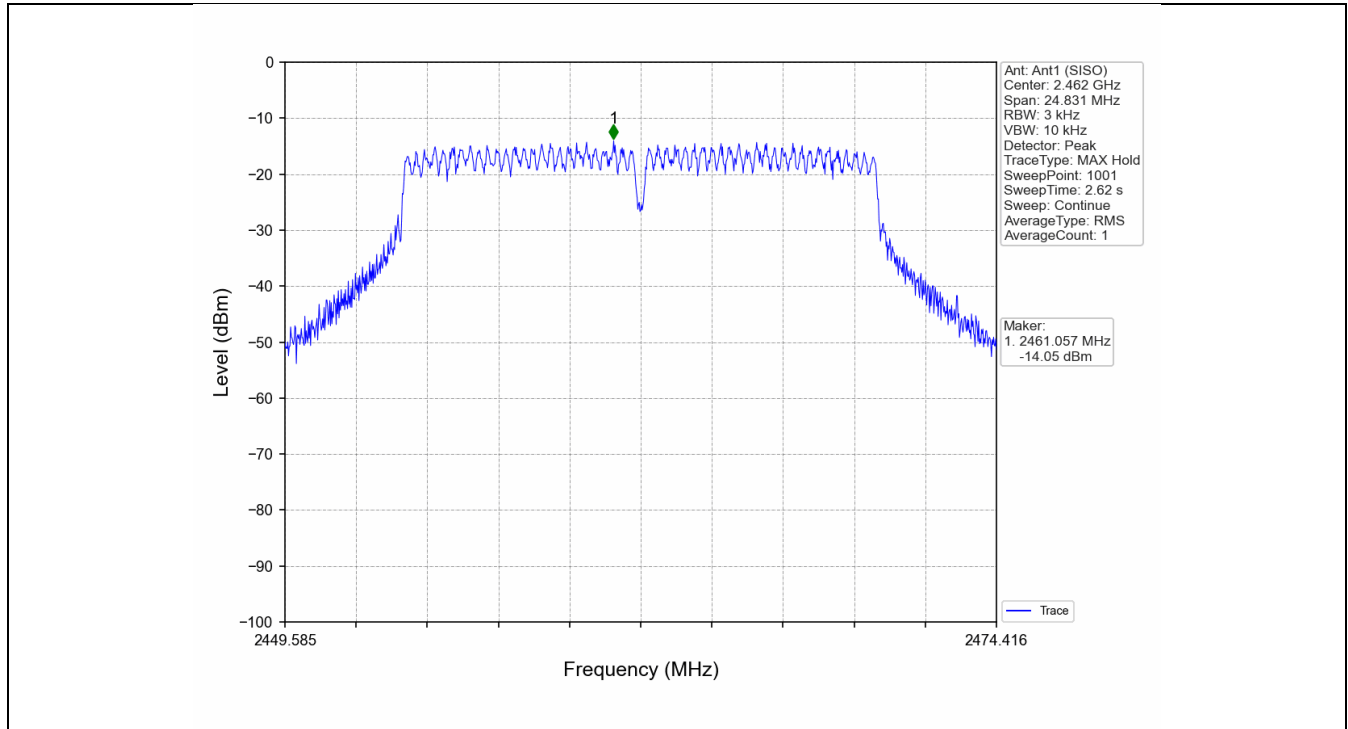
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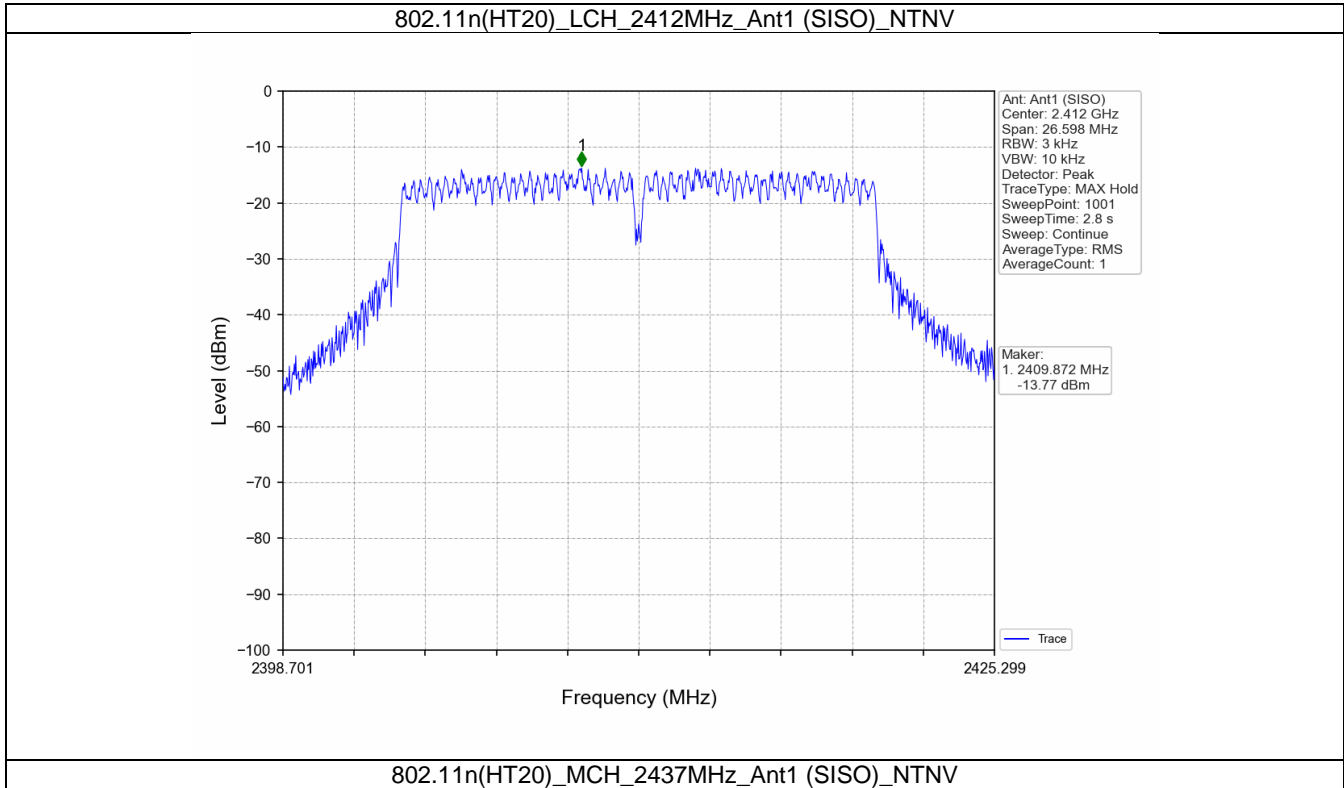
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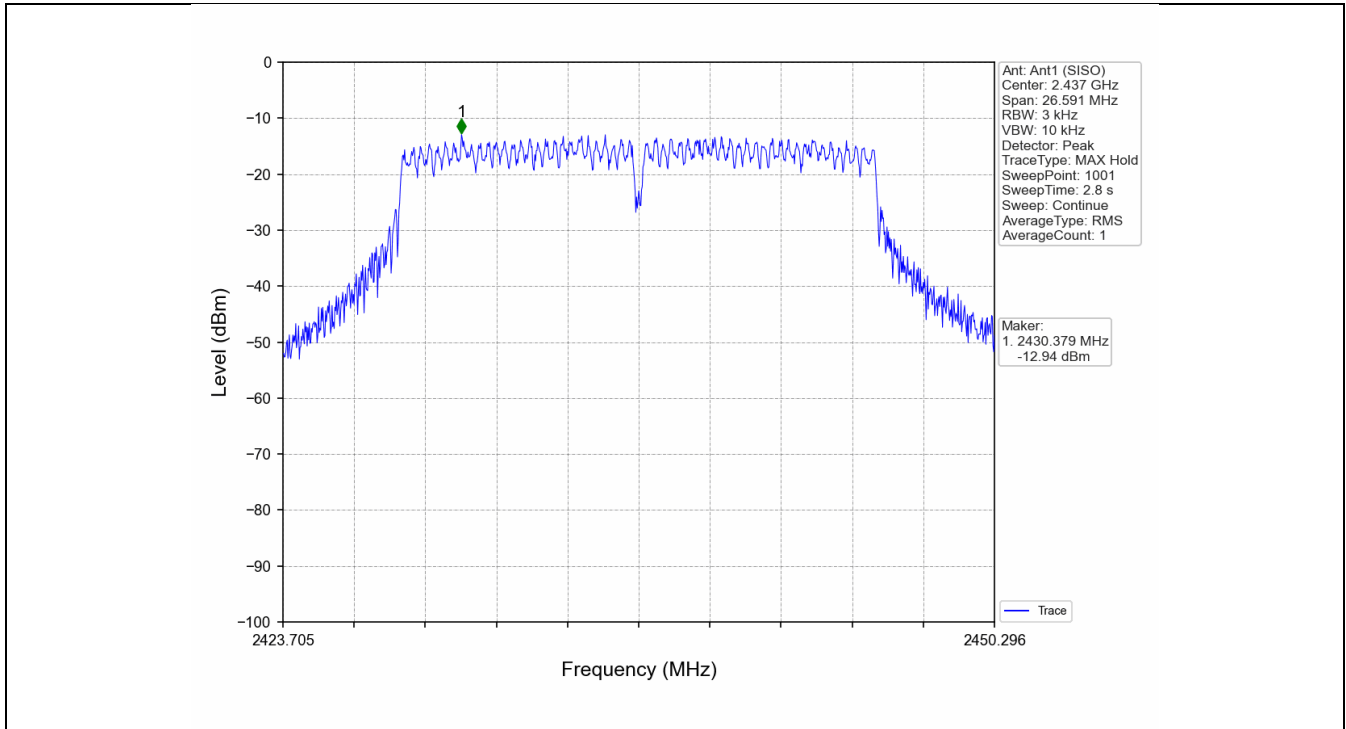
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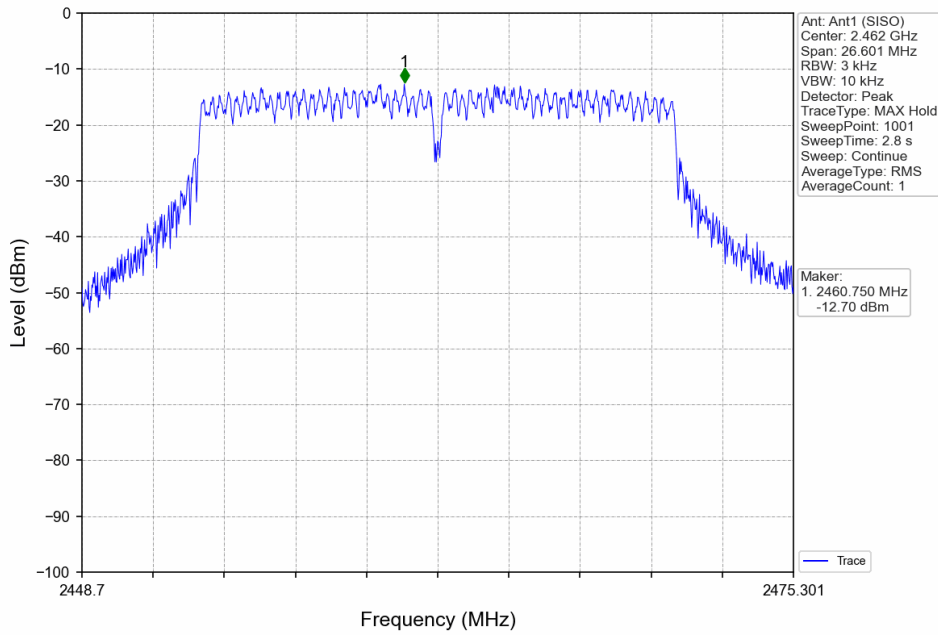
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

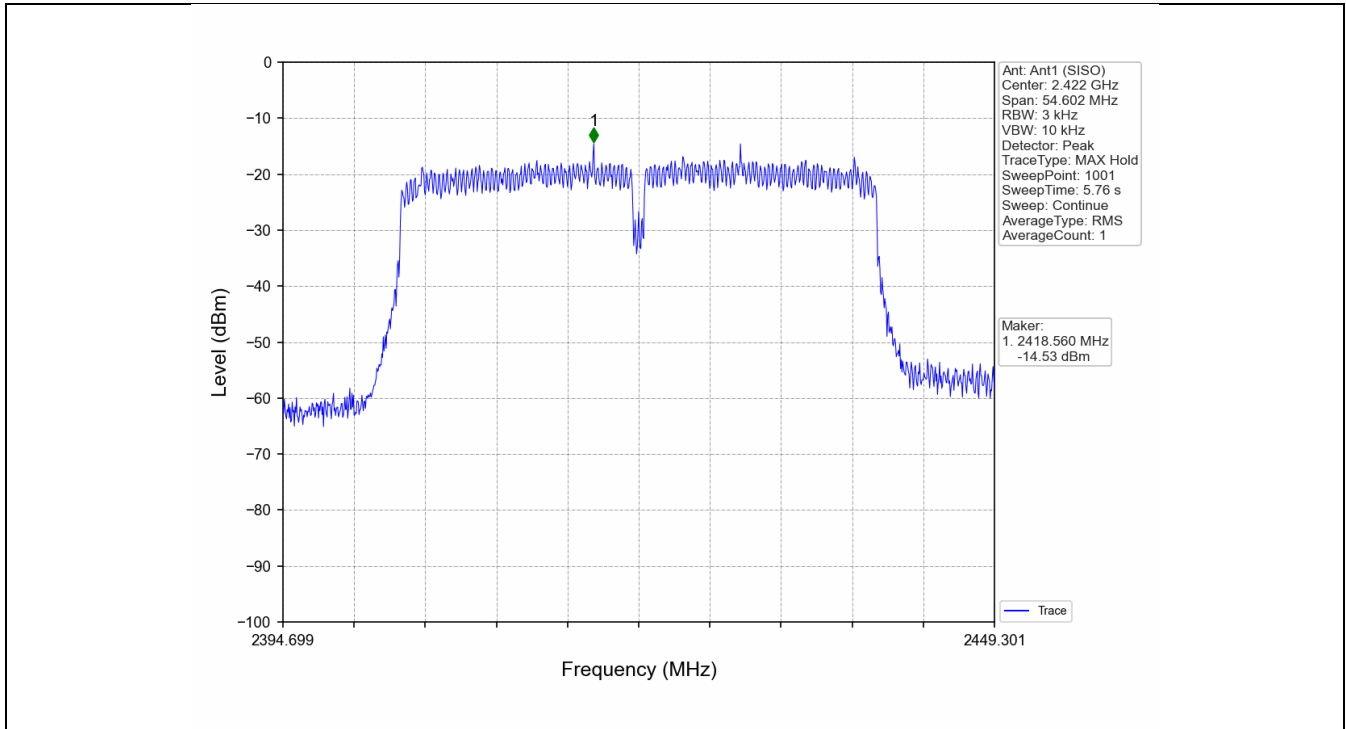


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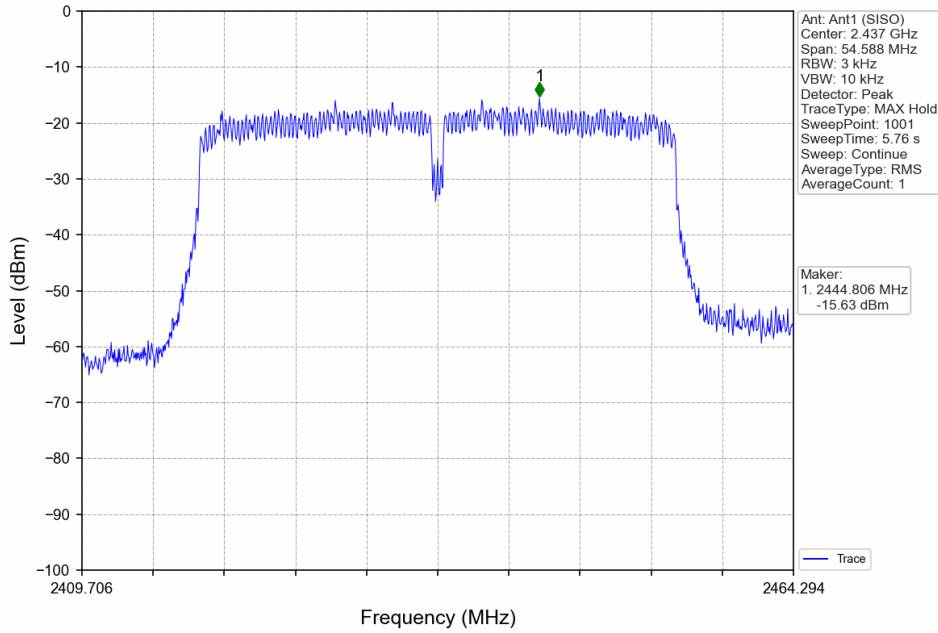
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



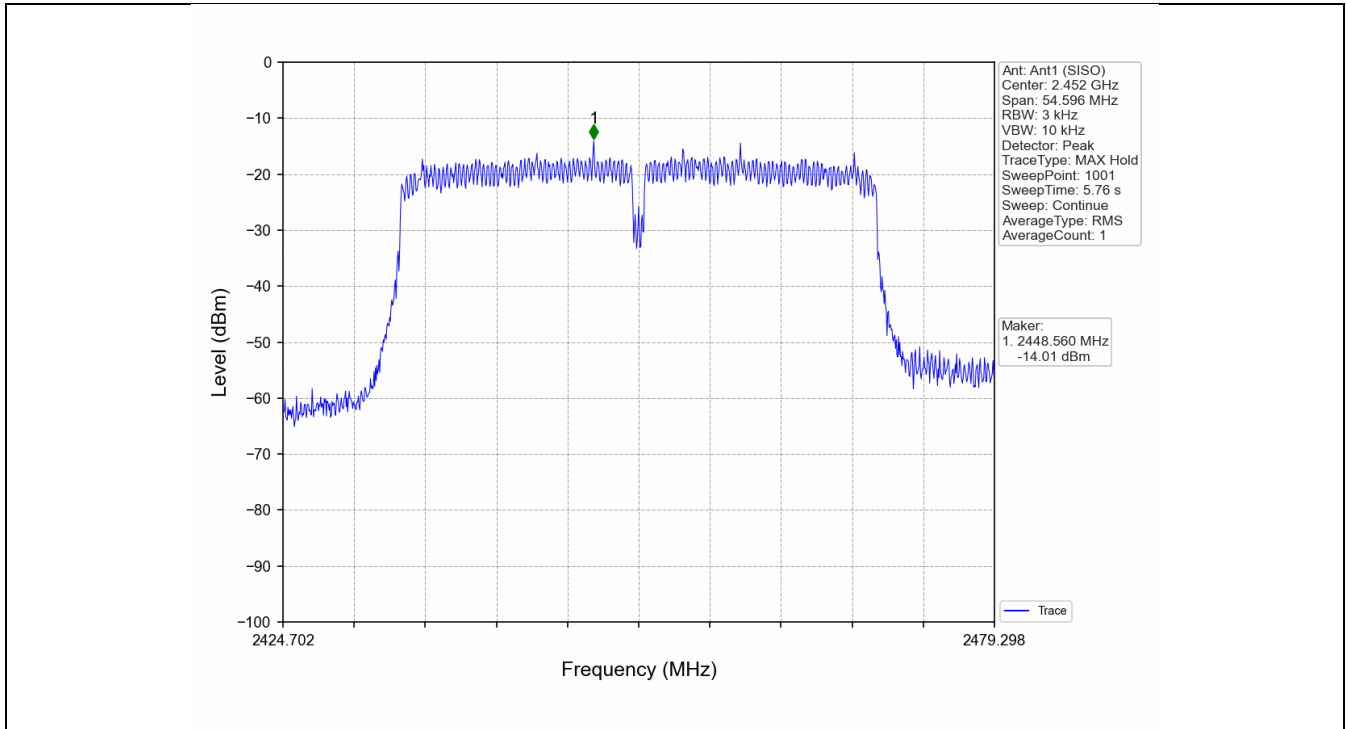
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.11
		2437	1	5.42
		2462	1	5.40
802.11g	SISO	2412	1	0.26
		2437	1	0.98
		2462	1	0.23
802.11n (HT20)	SISO	2412	1	0.80
		2437	1	1.63
		2462	1	1.55
802.11n (HT40)	SISO	2422	1	-2.27
		2437	1	-2.02
		2452	1	-1.80

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

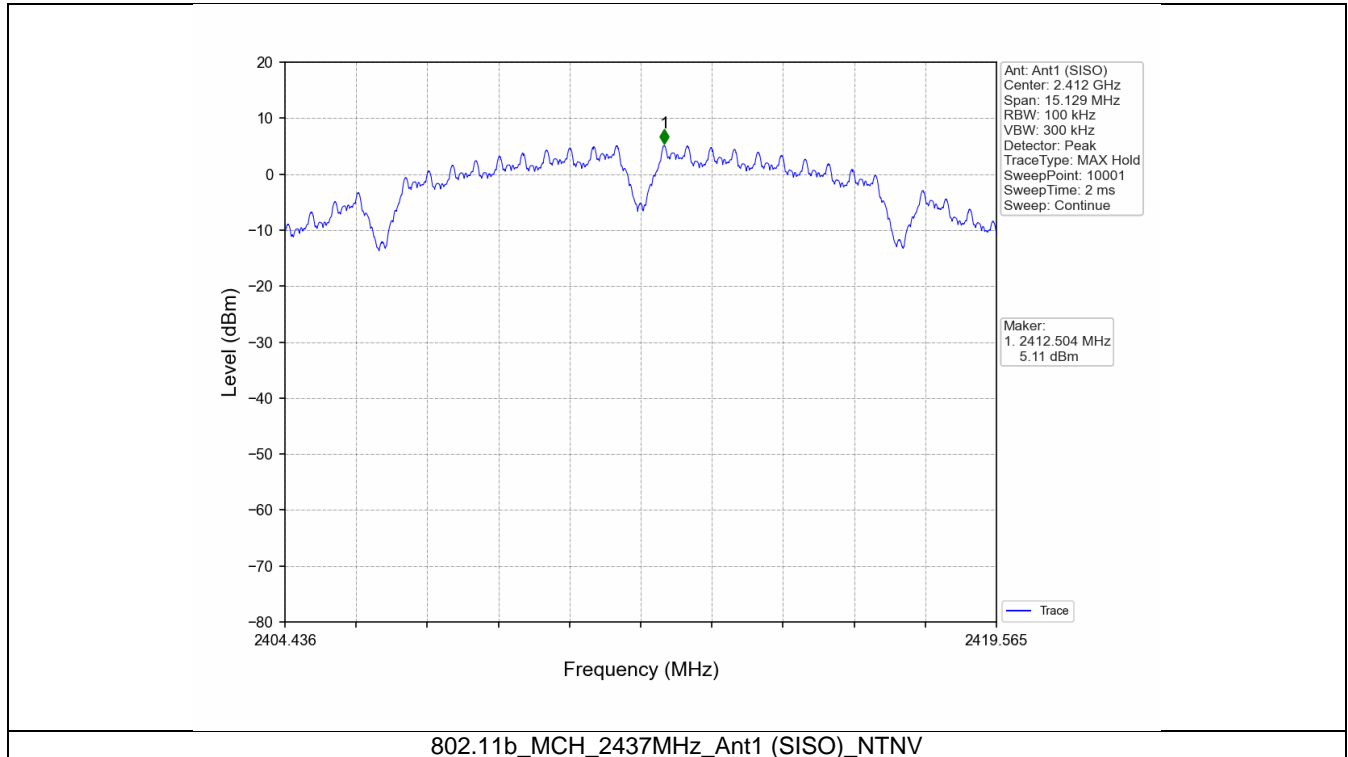
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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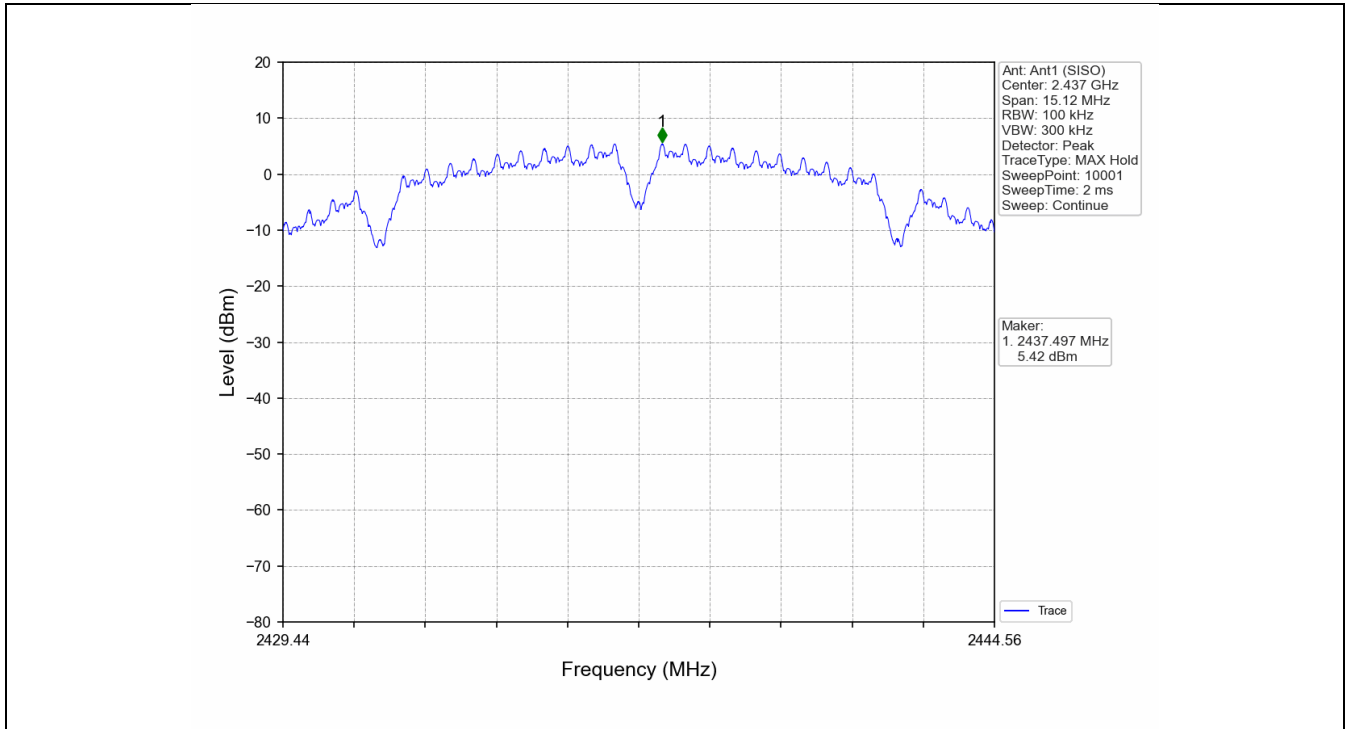
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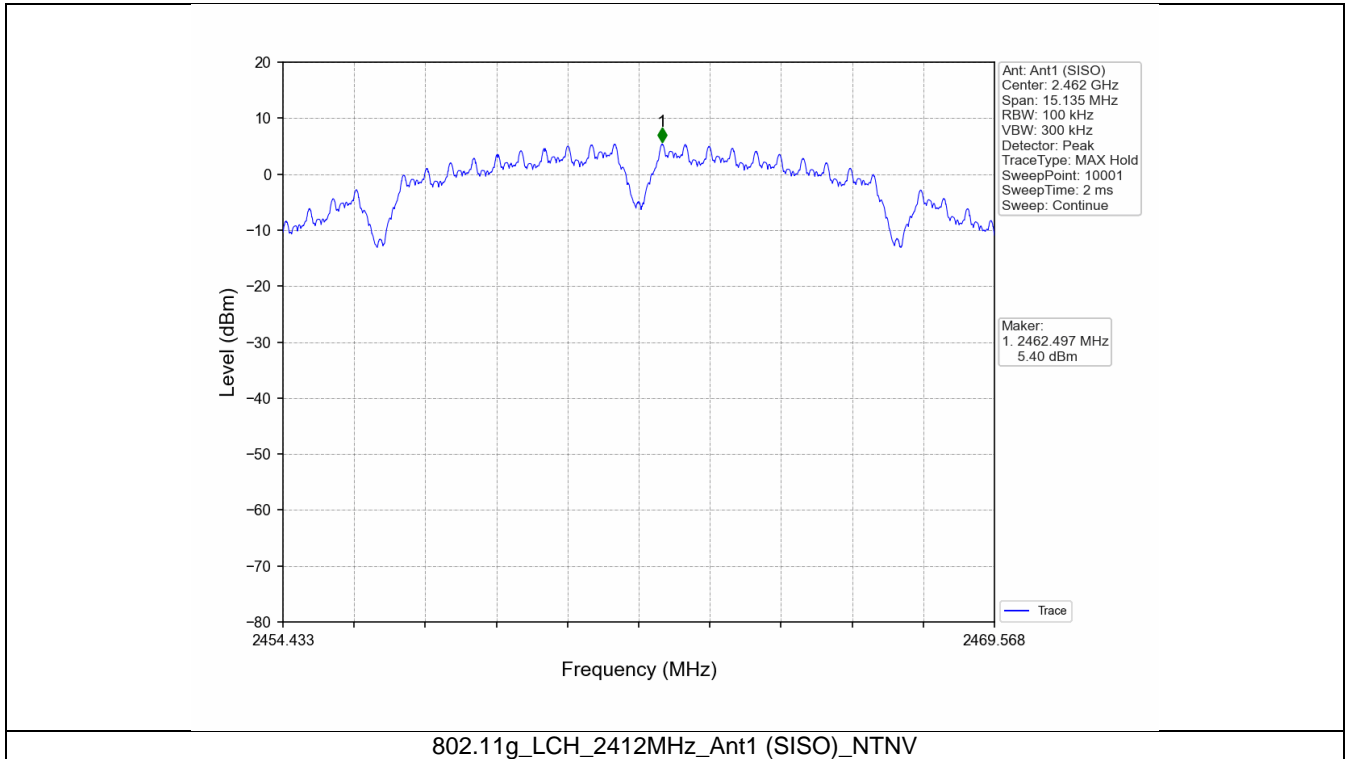


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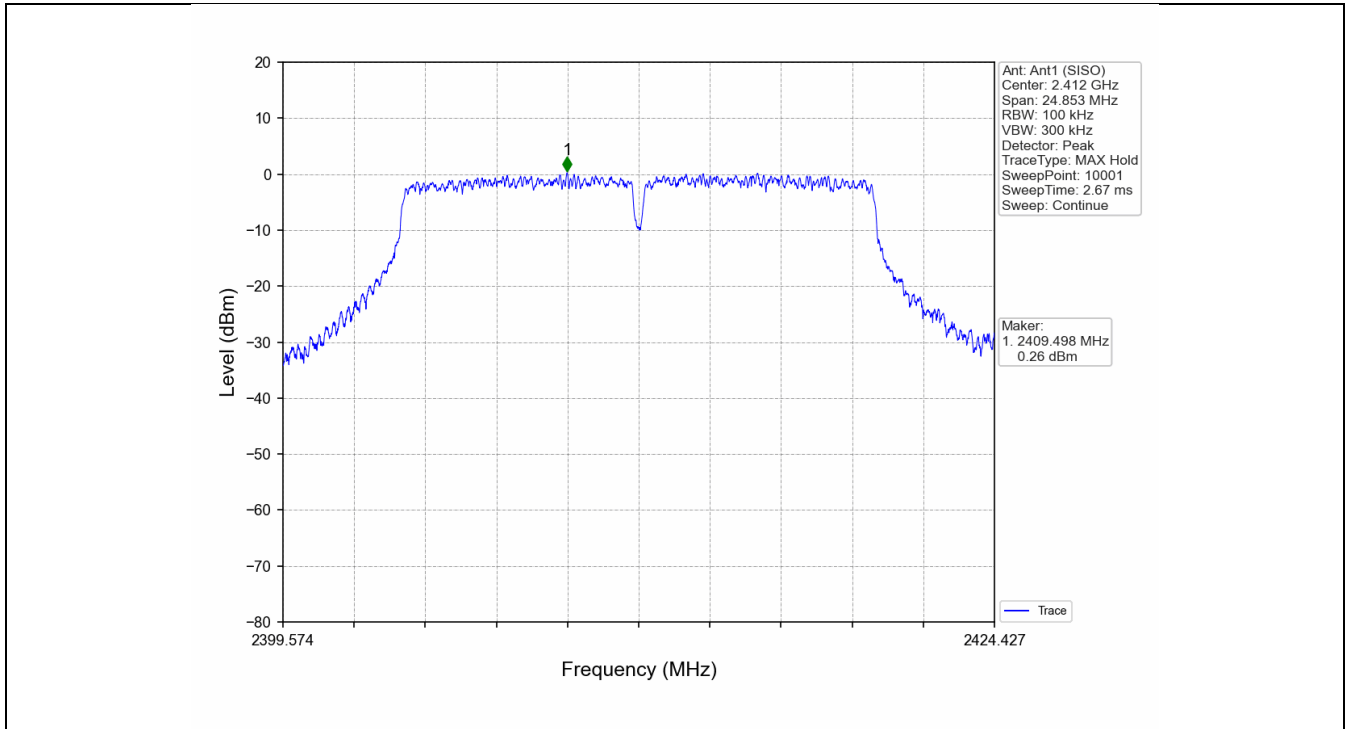
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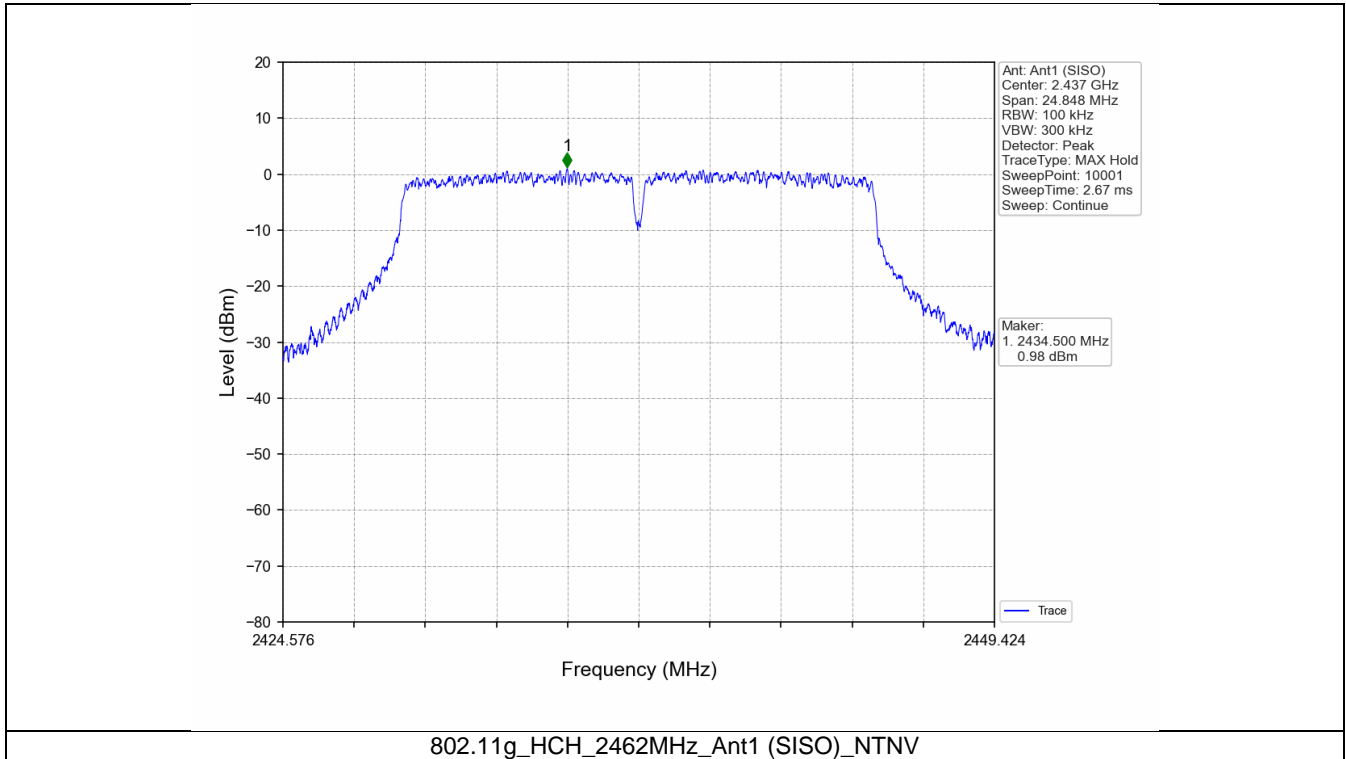


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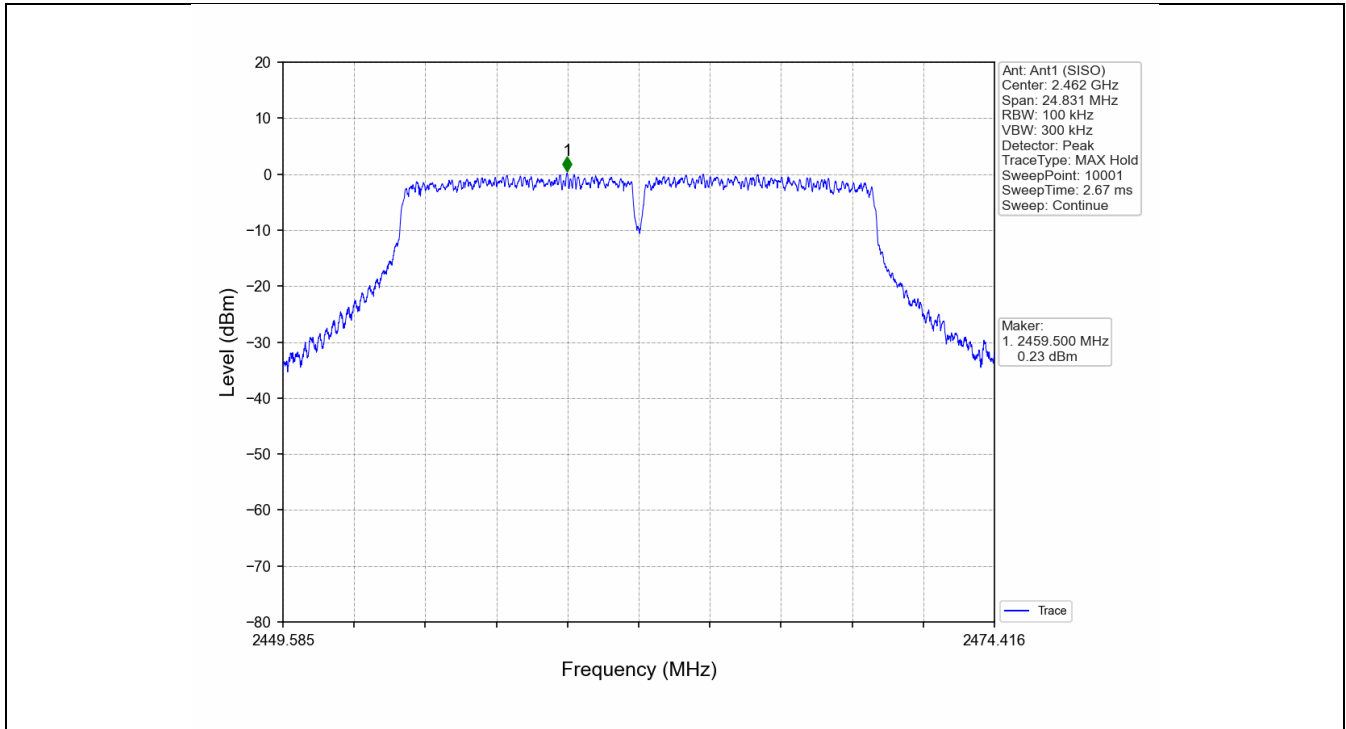


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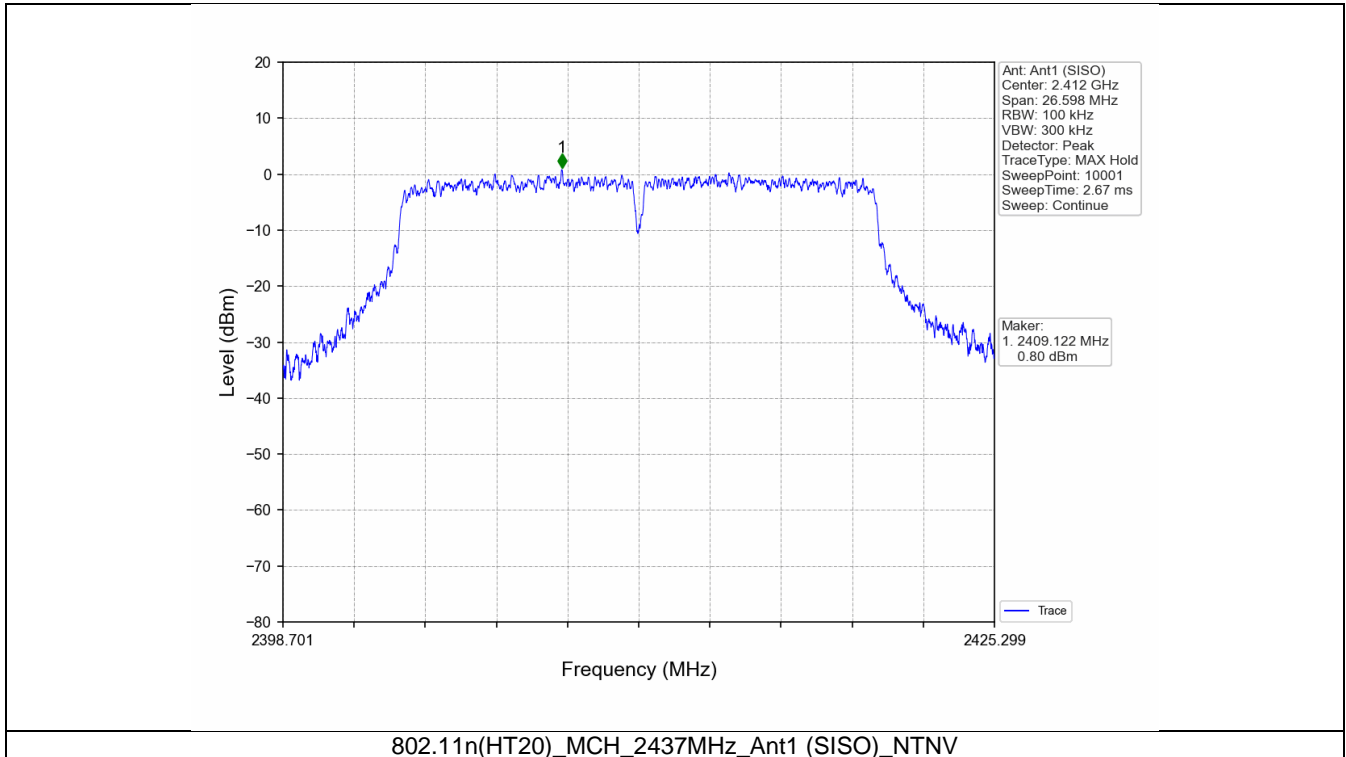


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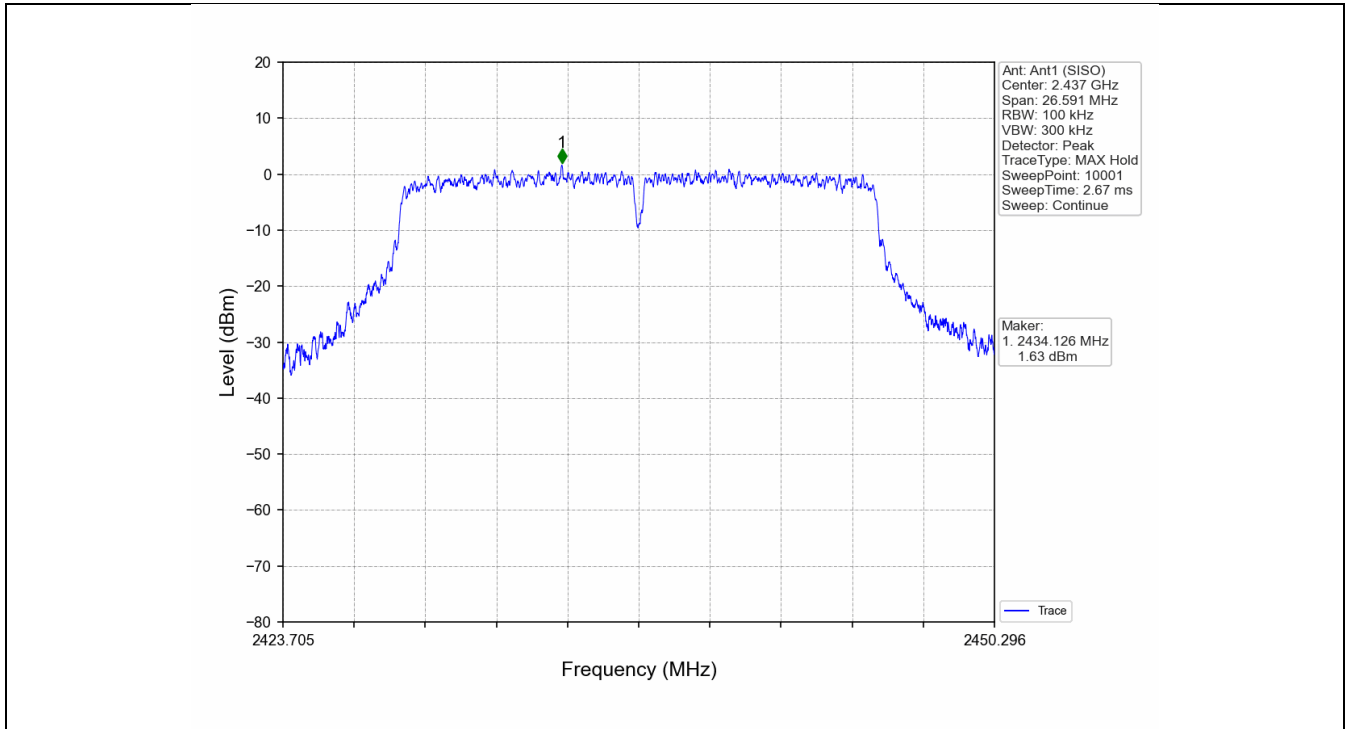
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

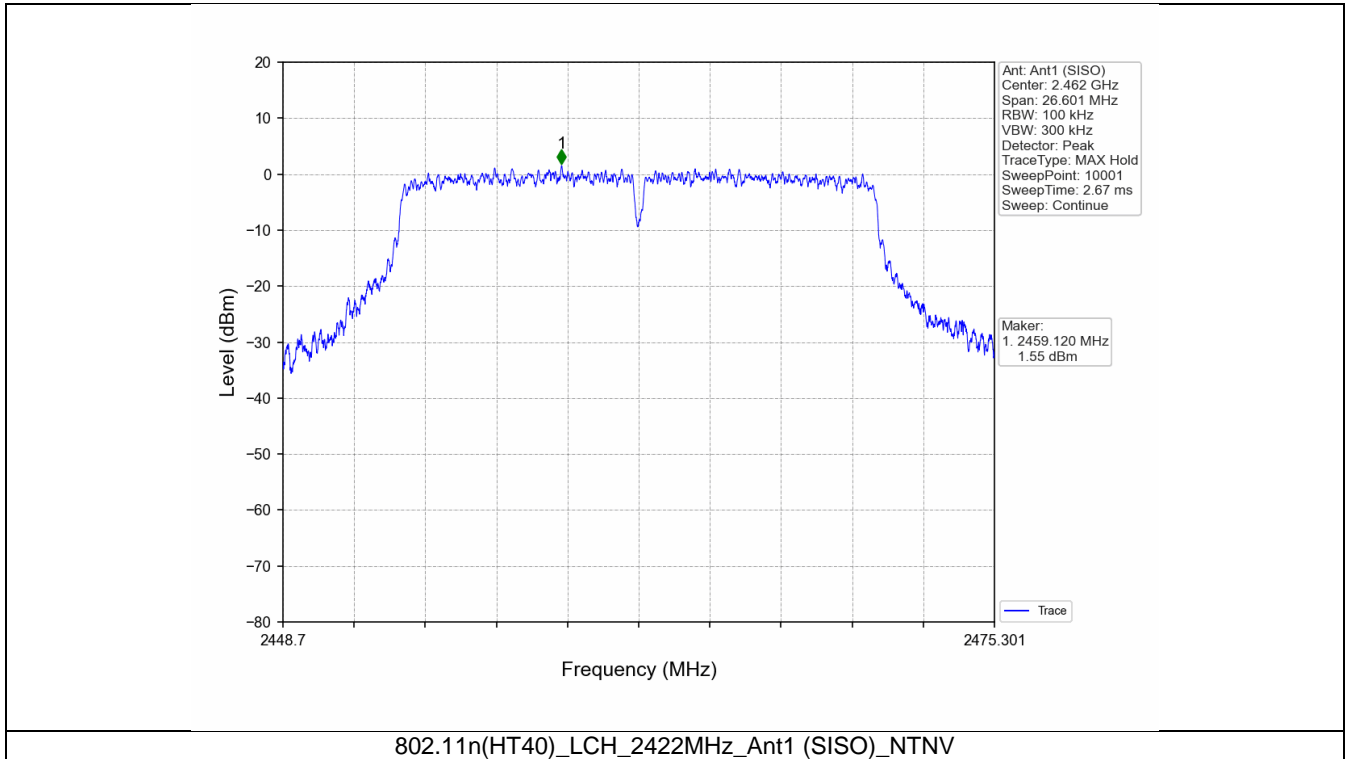


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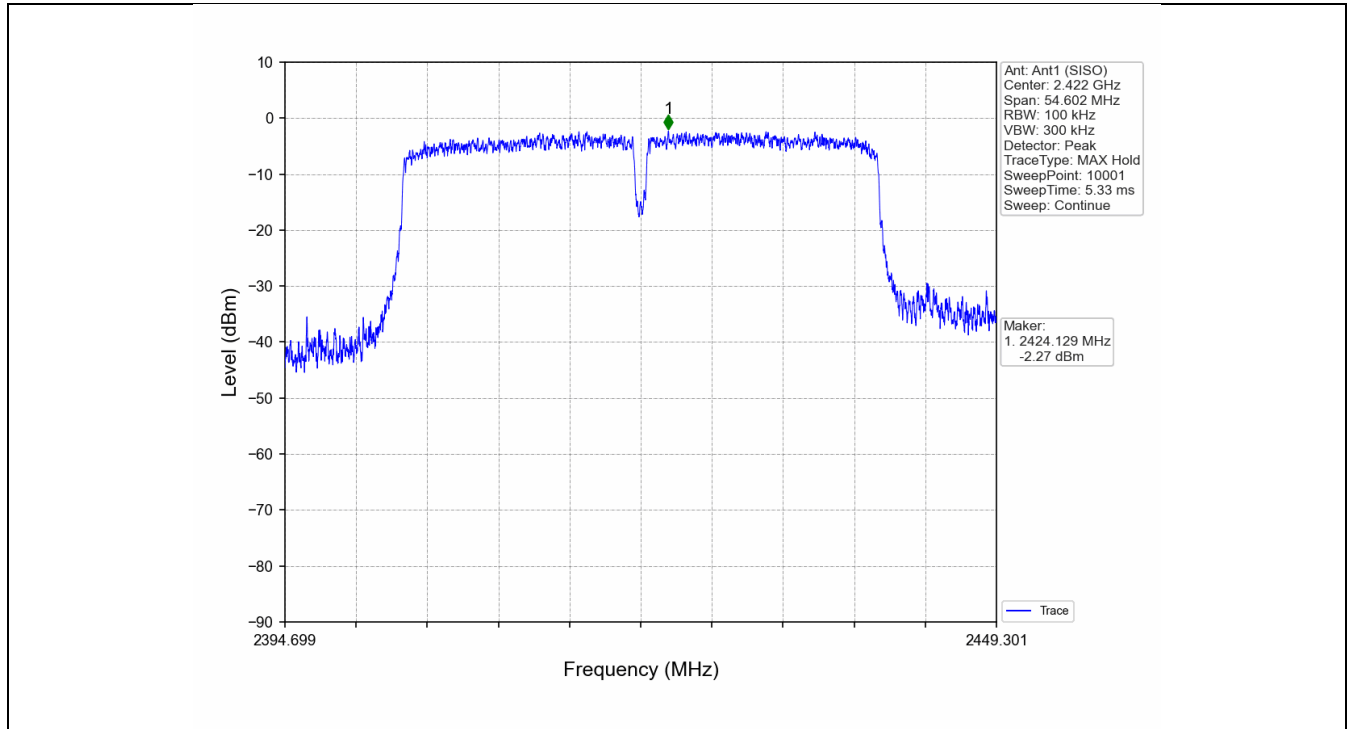


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

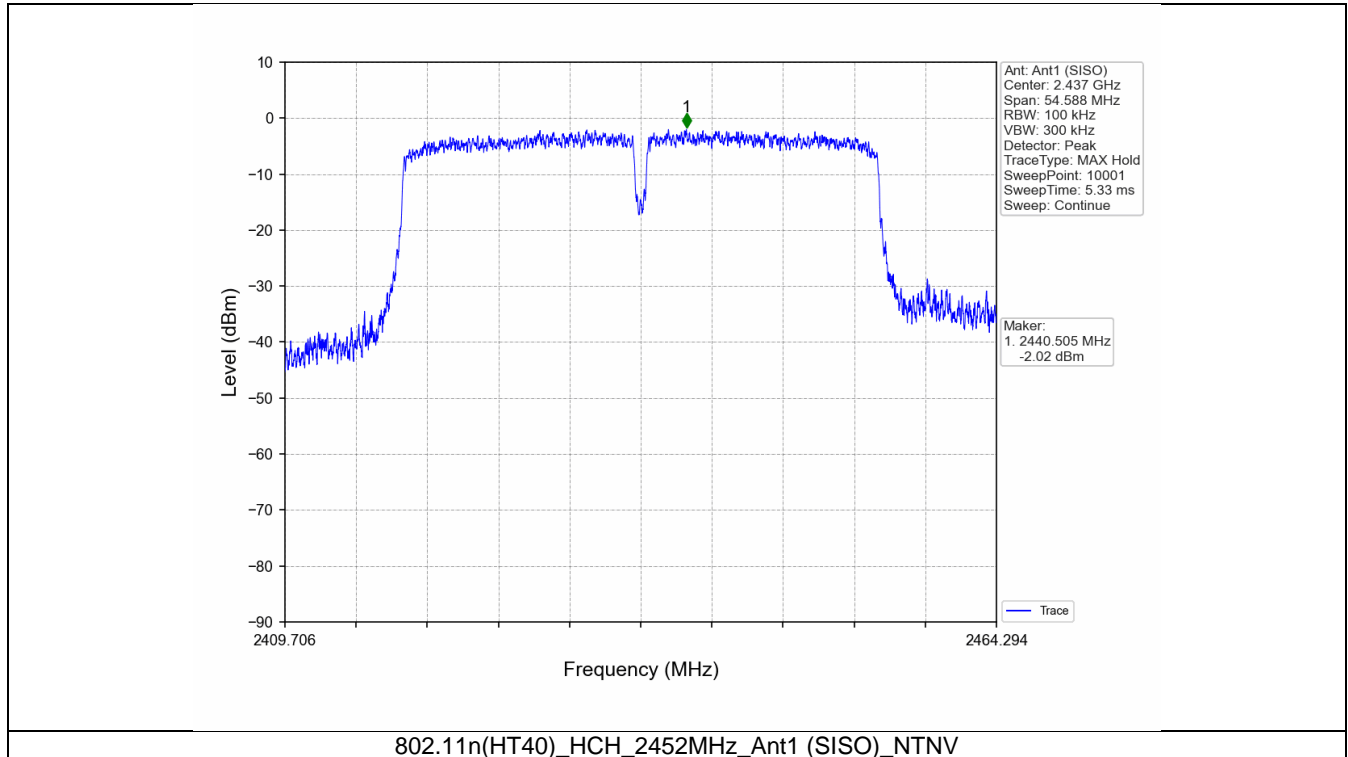


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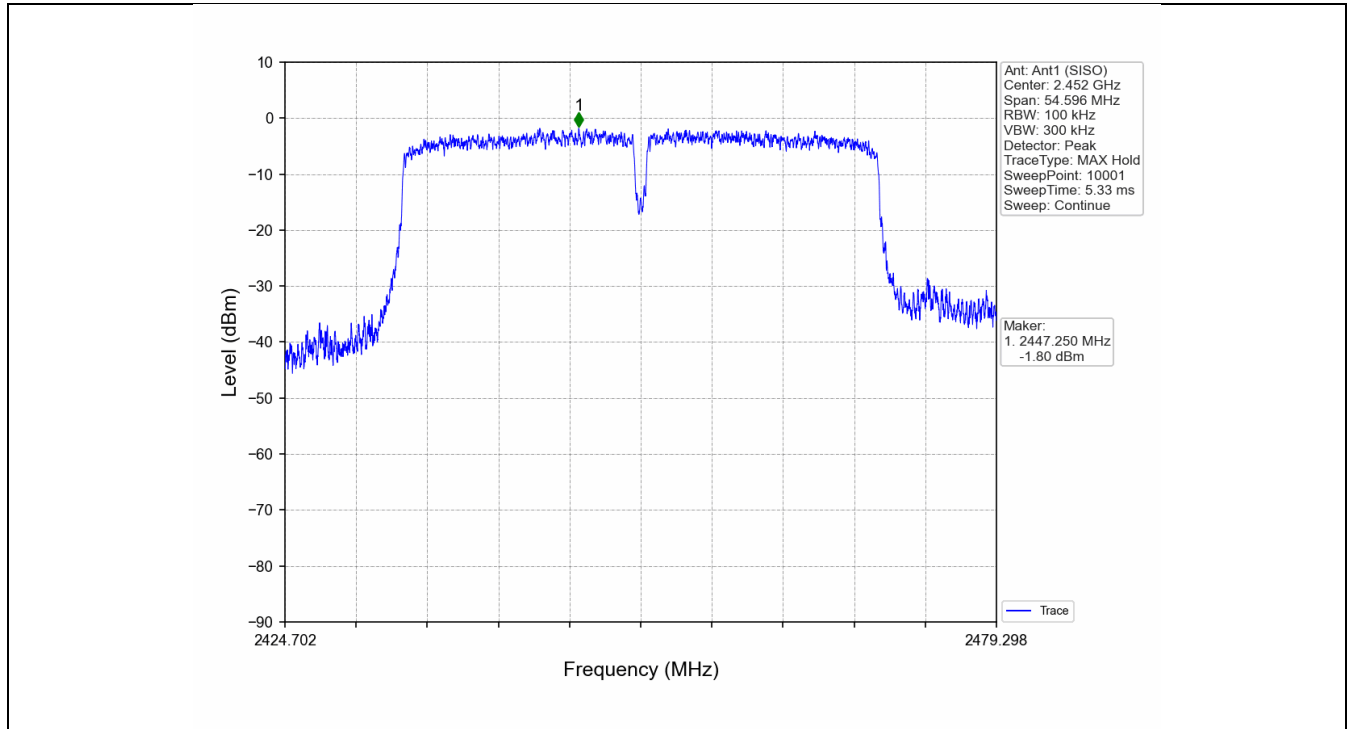


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.42	-24.58	Pass
		2437	1	5.42	-24.58	Pass
		2462	1	5.42	-24.58	Pass
802.11g	SISO	2412	1	0.98	-29.02	Pass
		2437	1	0.98	-29.02	Pass
		2462	1	0.98	-29.02	Pass
802.11n (HT20)	SISO	2412	1	1.63	-28.37	Pass
		2437	1	1.63	-28.37	Pass
		2462	1	1.63	-28.37	Pass
802.11n (HT40)	SISO	2422	1	-1.80	-31.80	Pass
		2437	1	-1.80	-31.80	Pass
		2452	1	-1.80	-31.80	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.

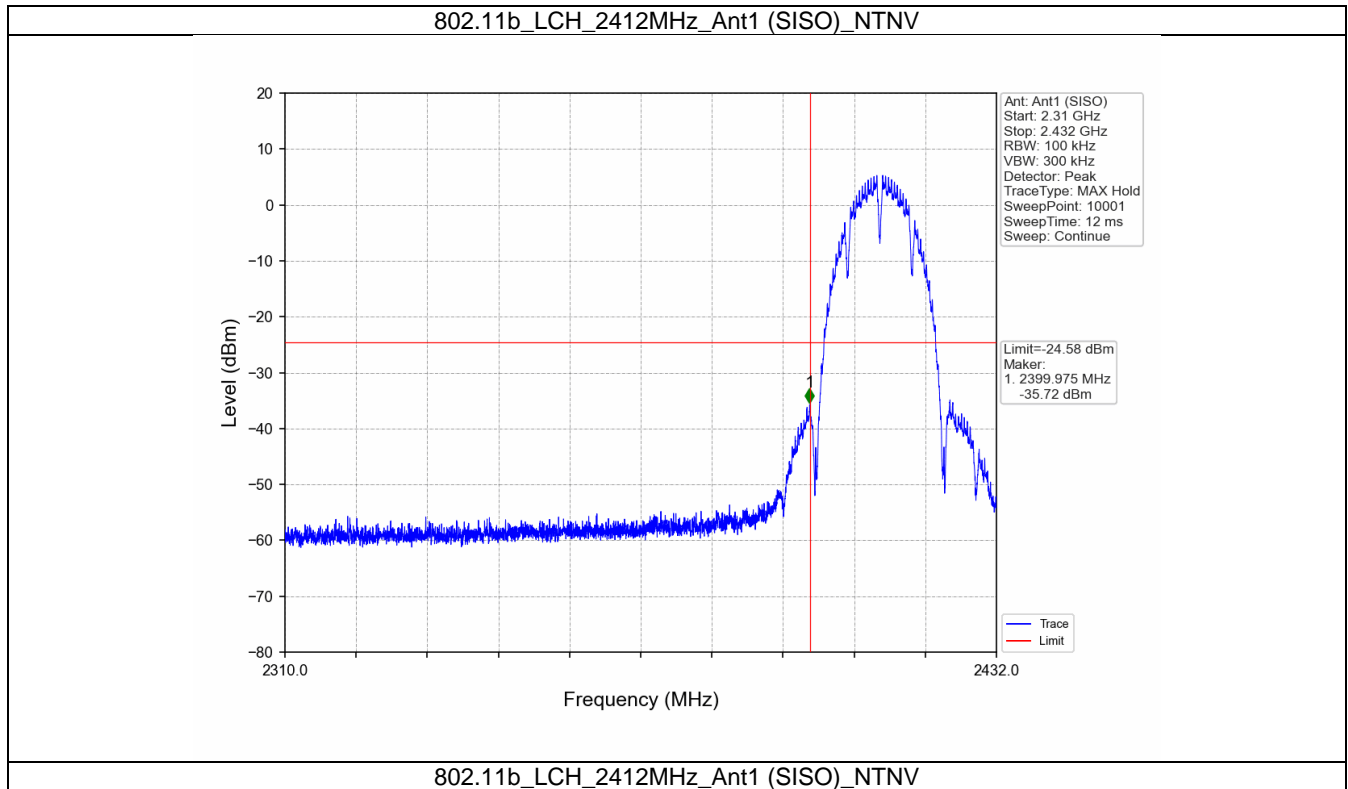


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5.2.2 Test Graph

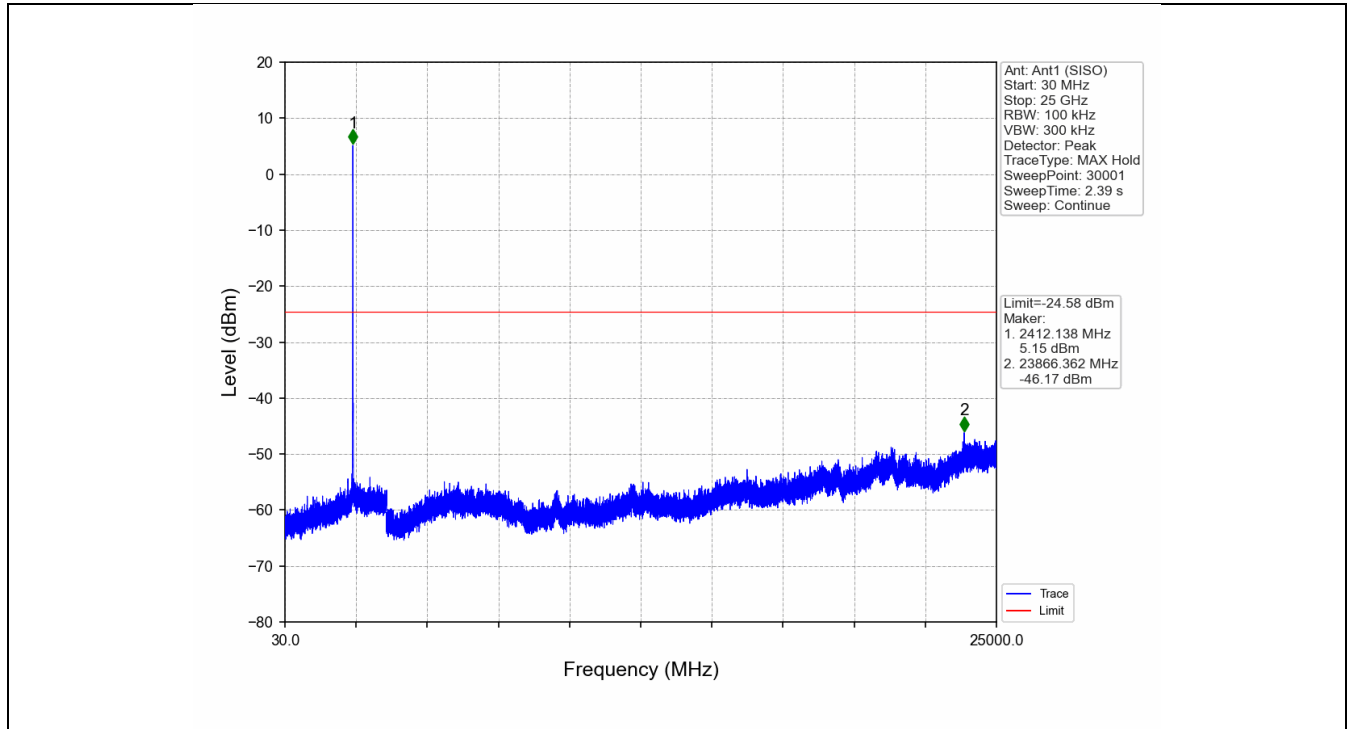


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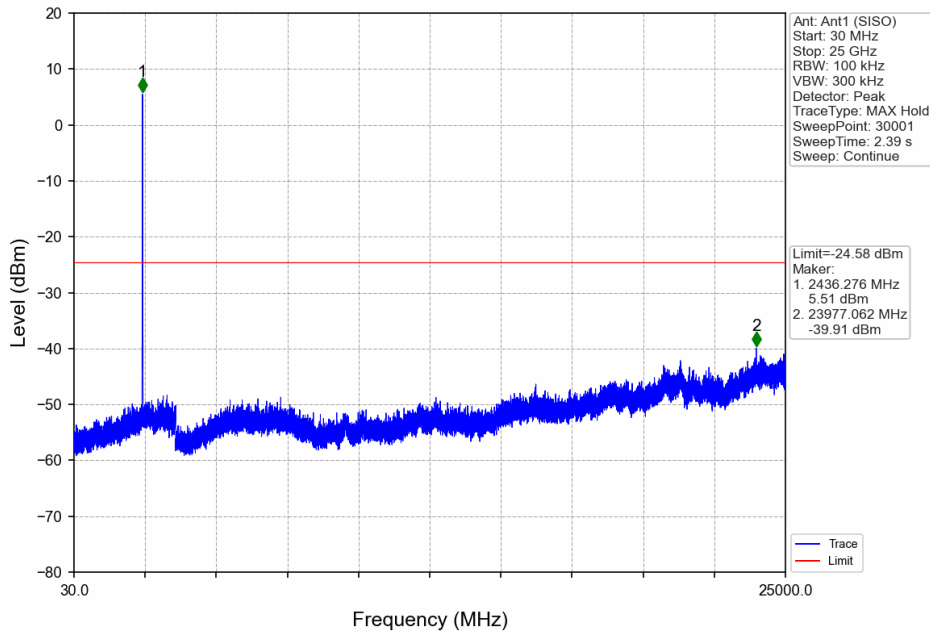


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

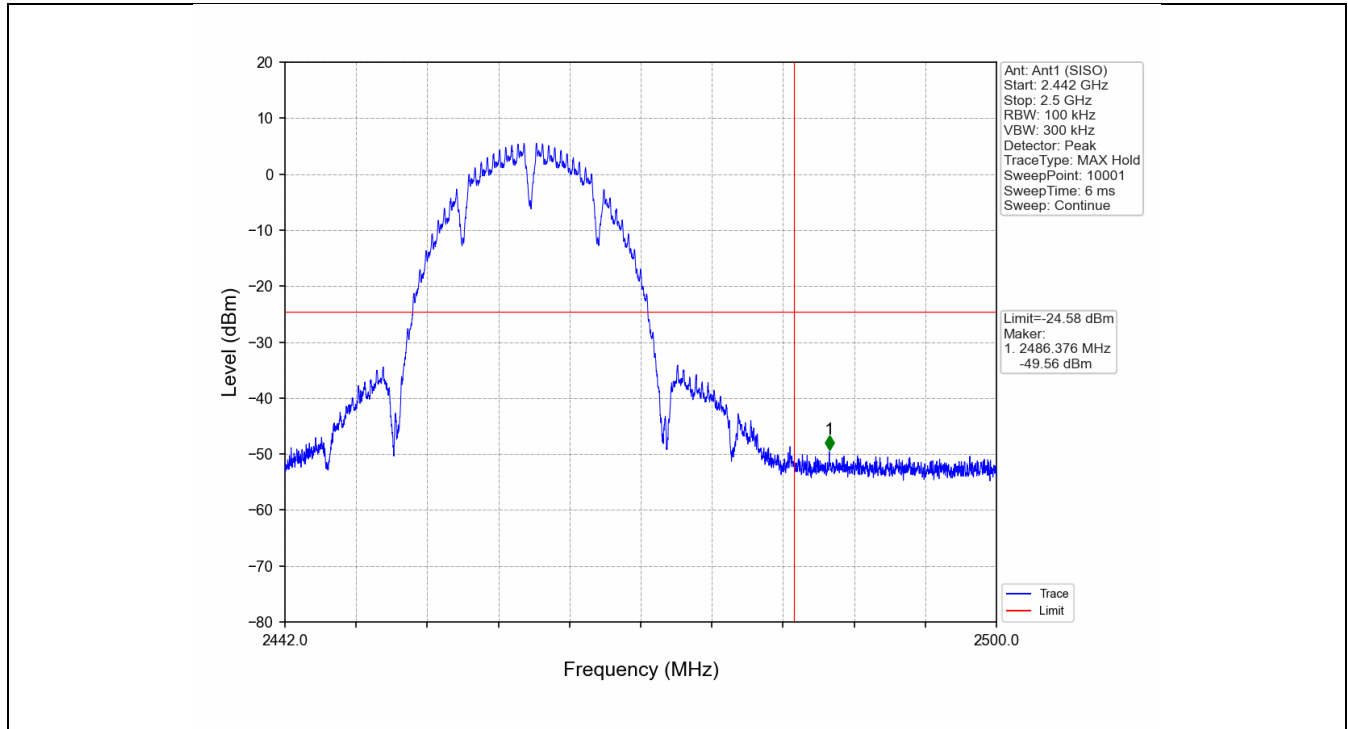


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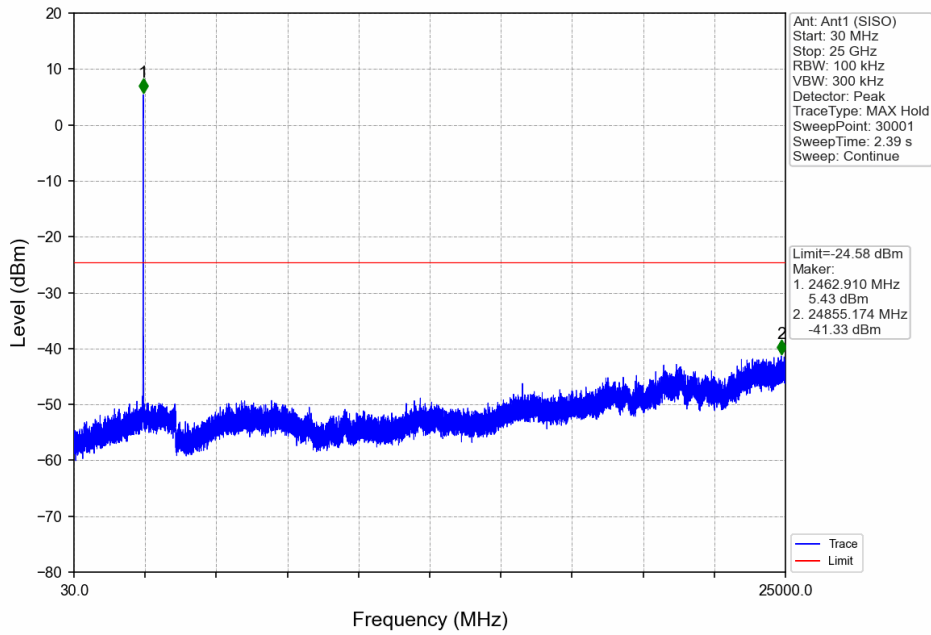


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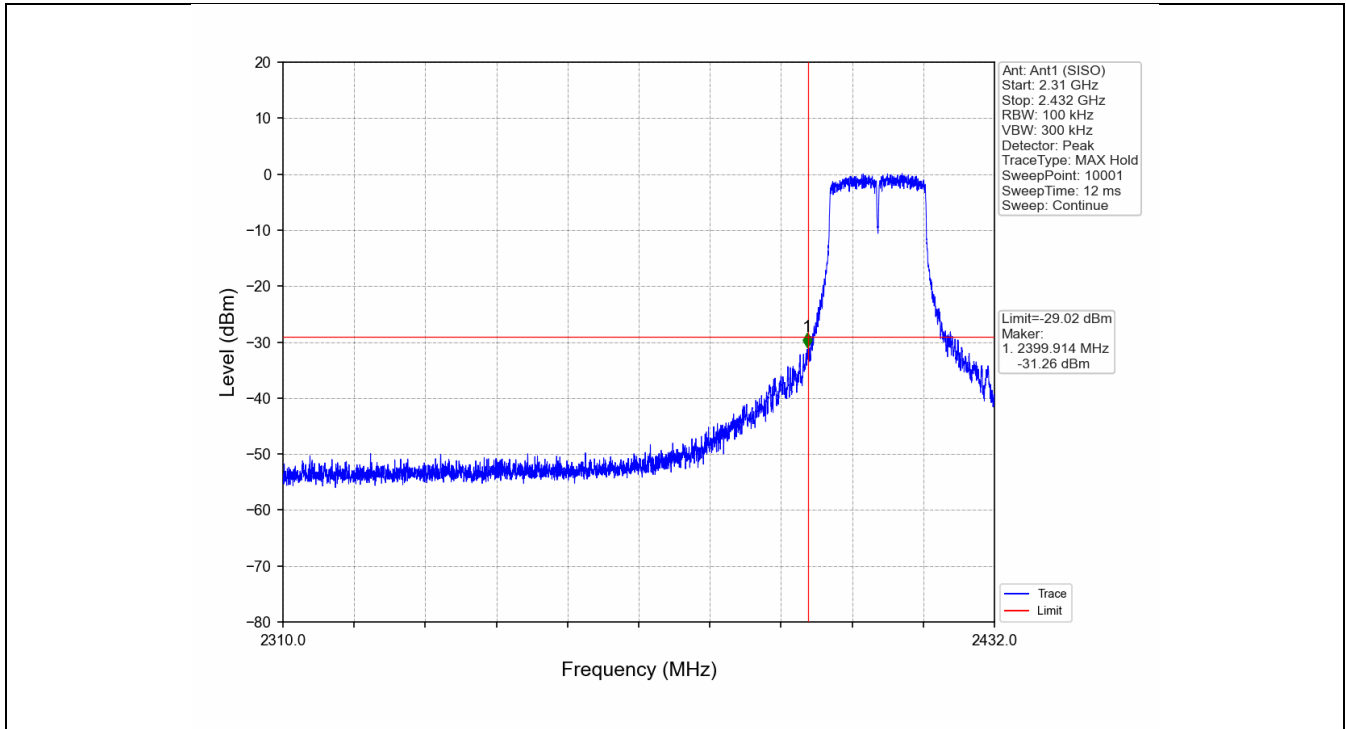


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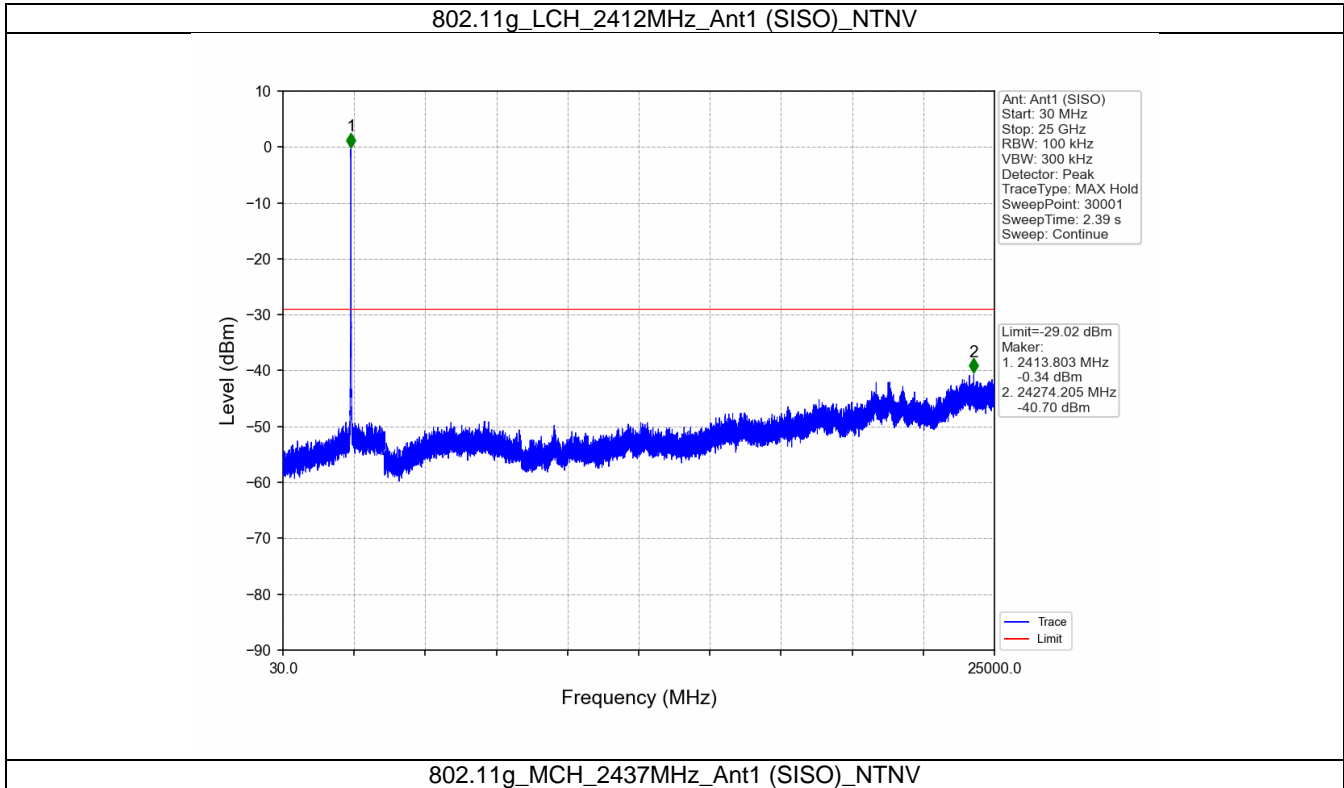
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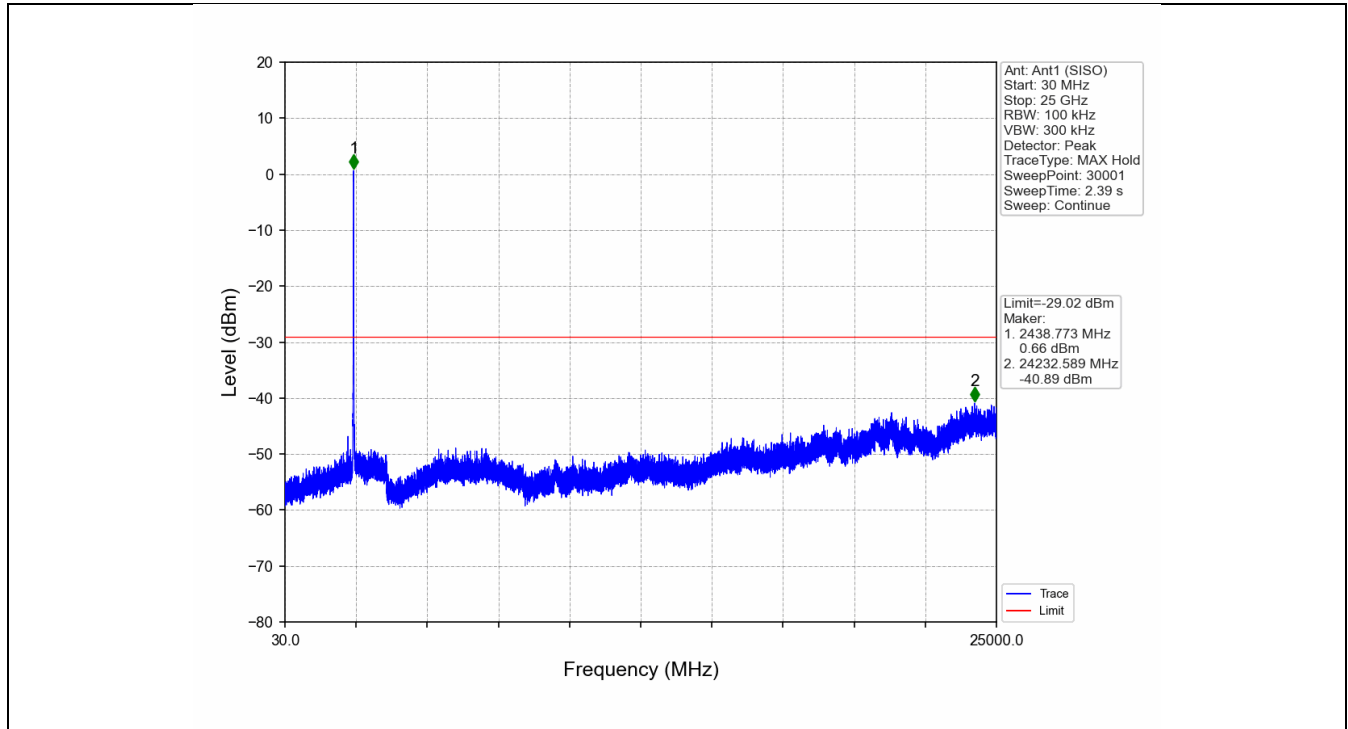
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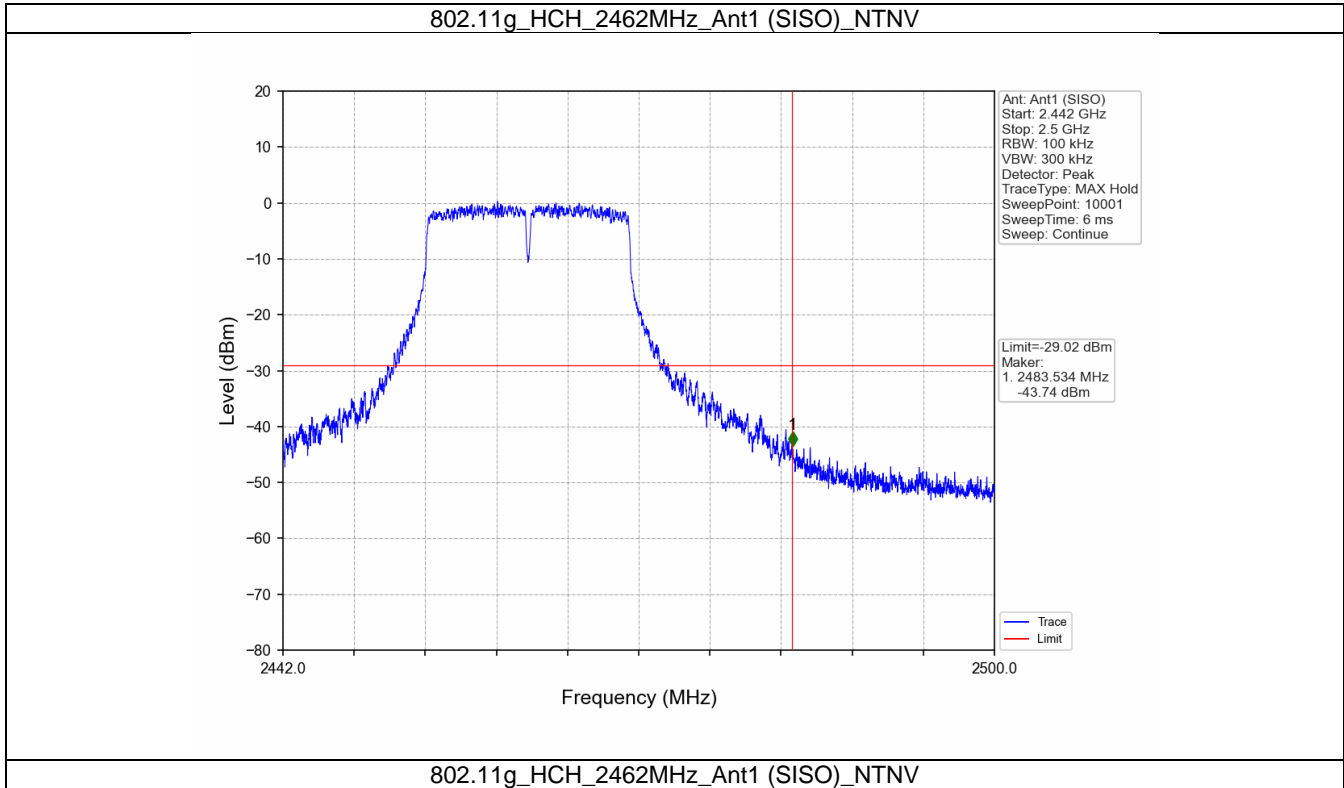


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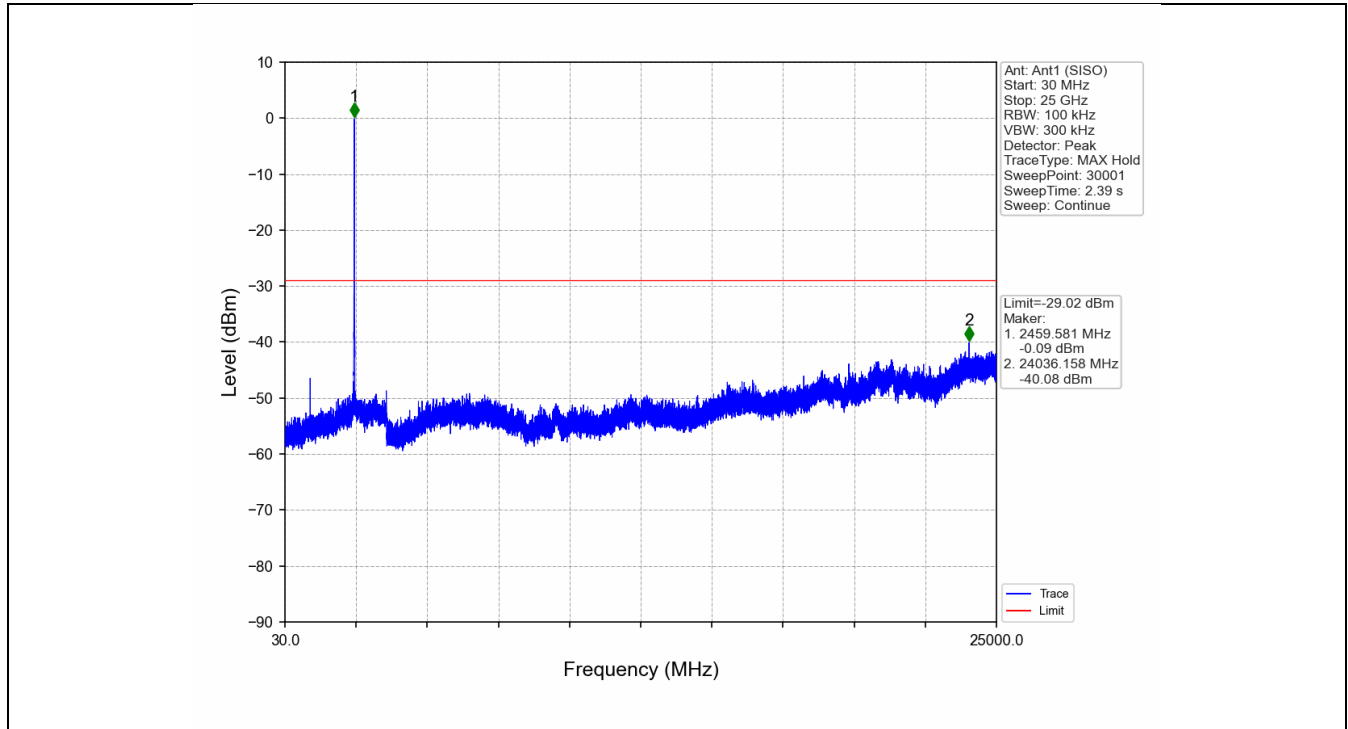


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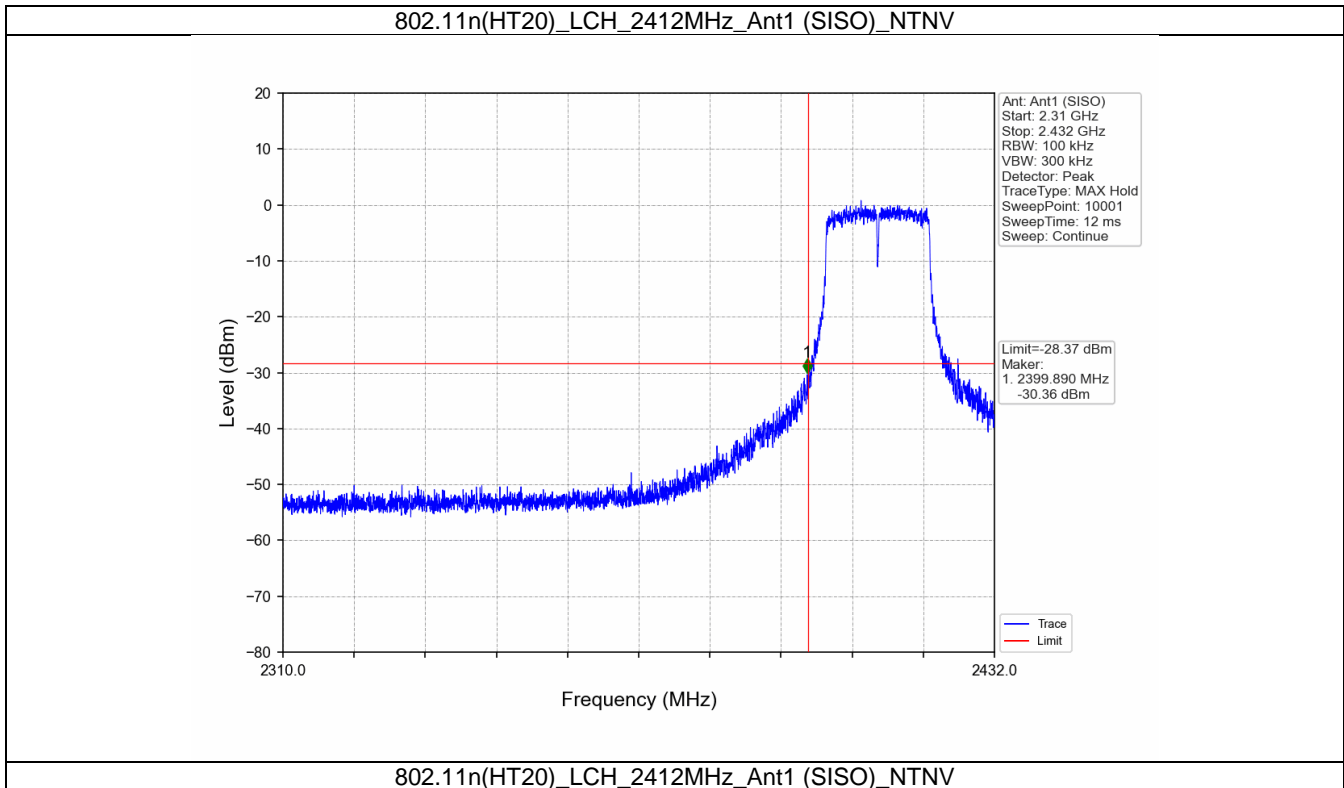


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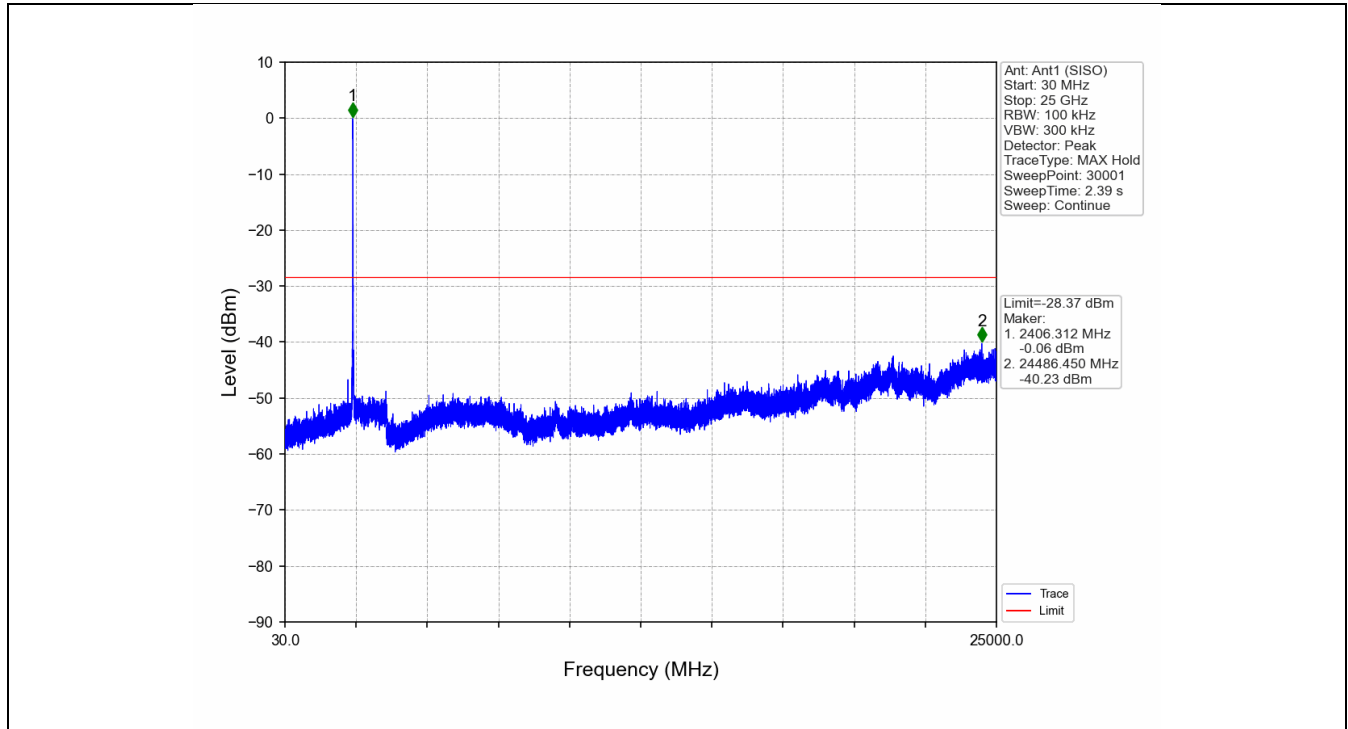


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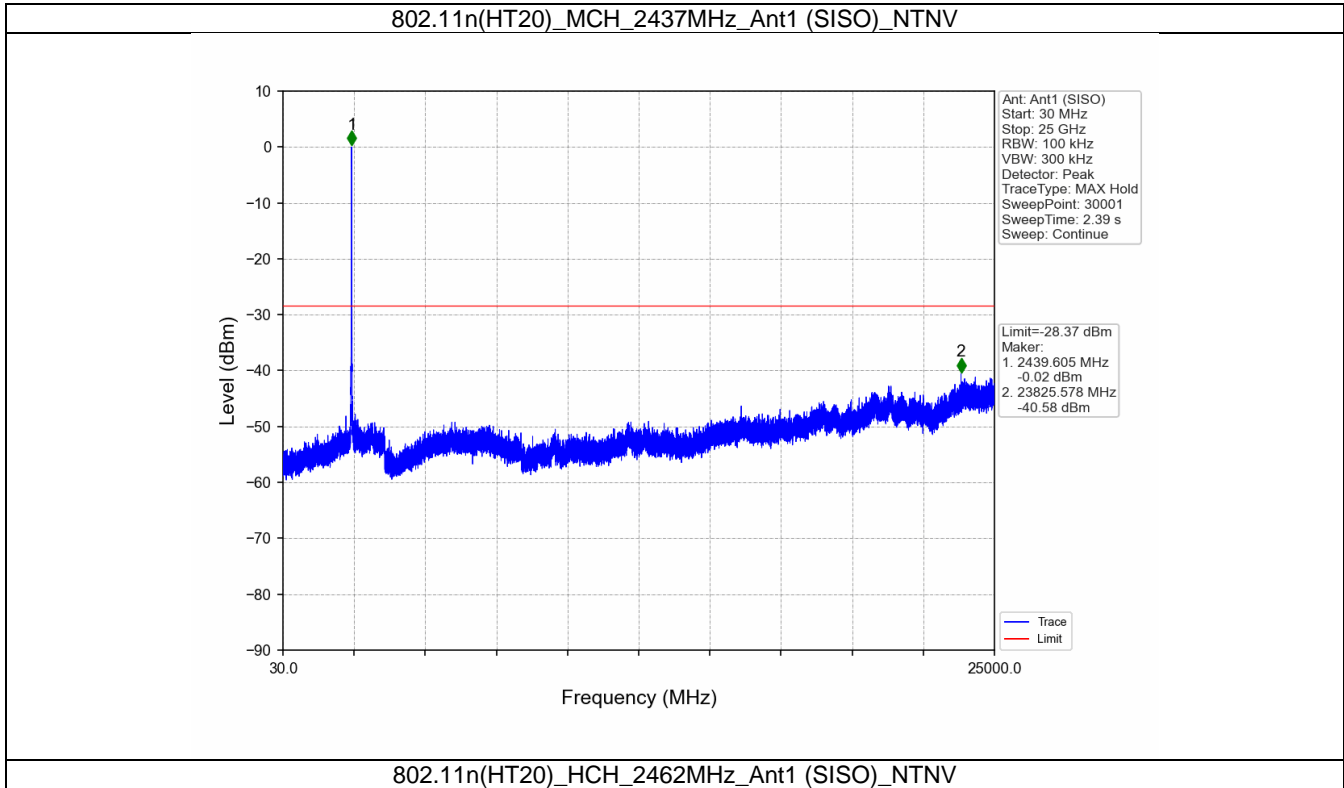
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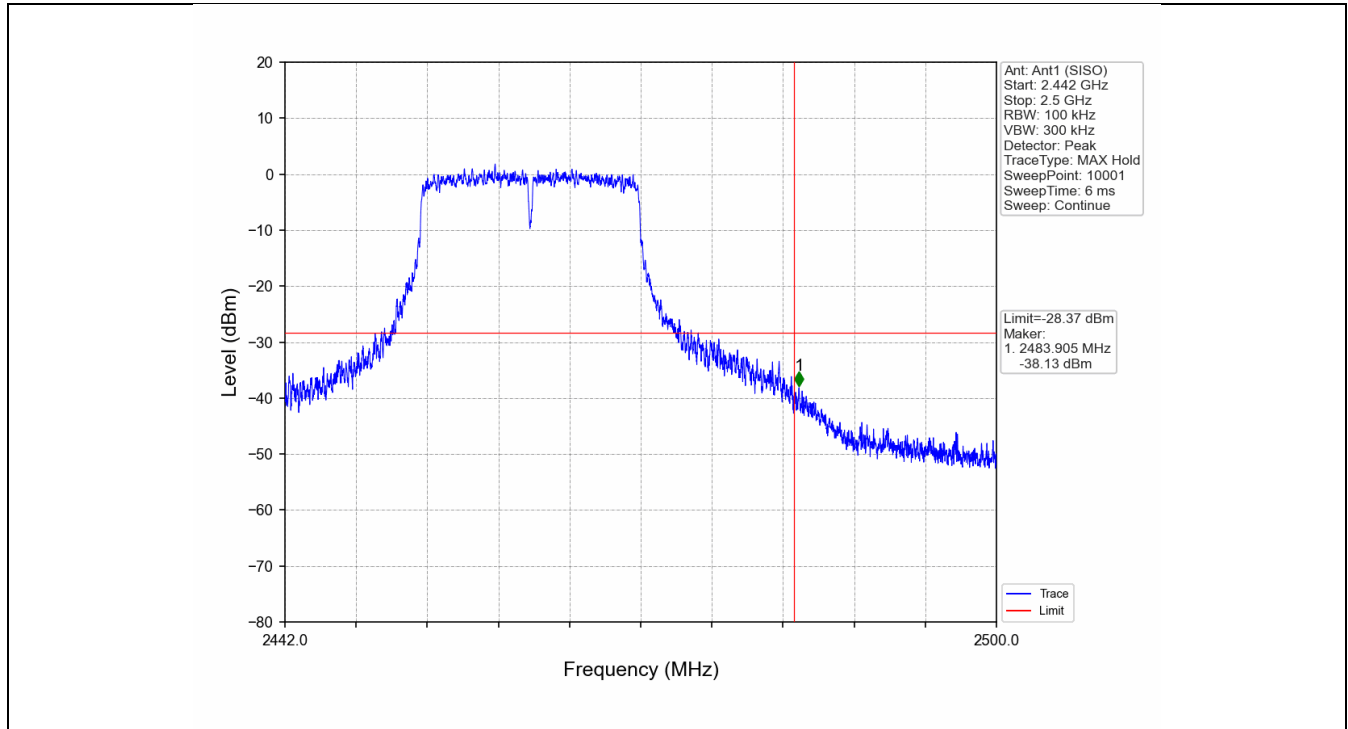


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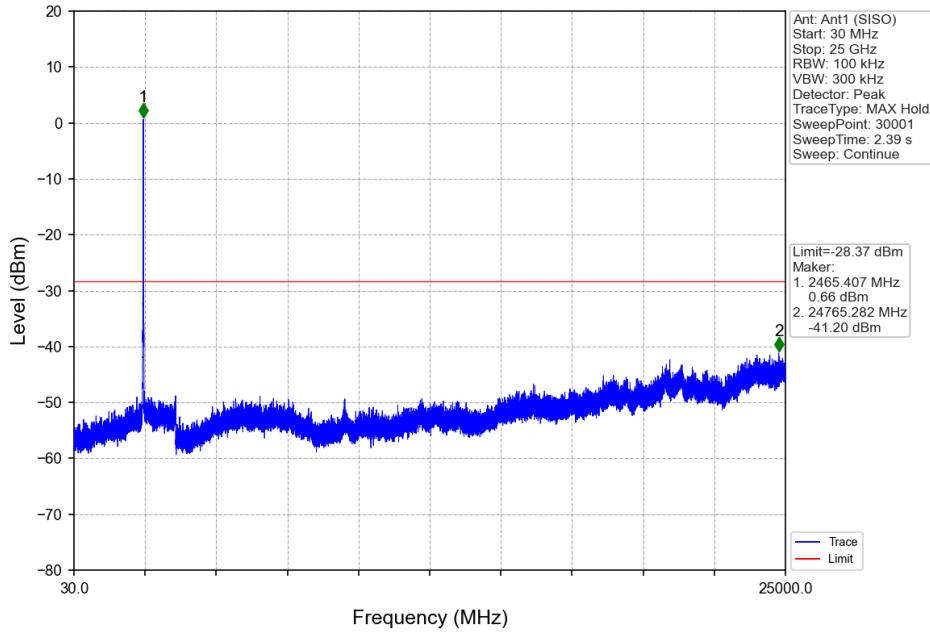


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

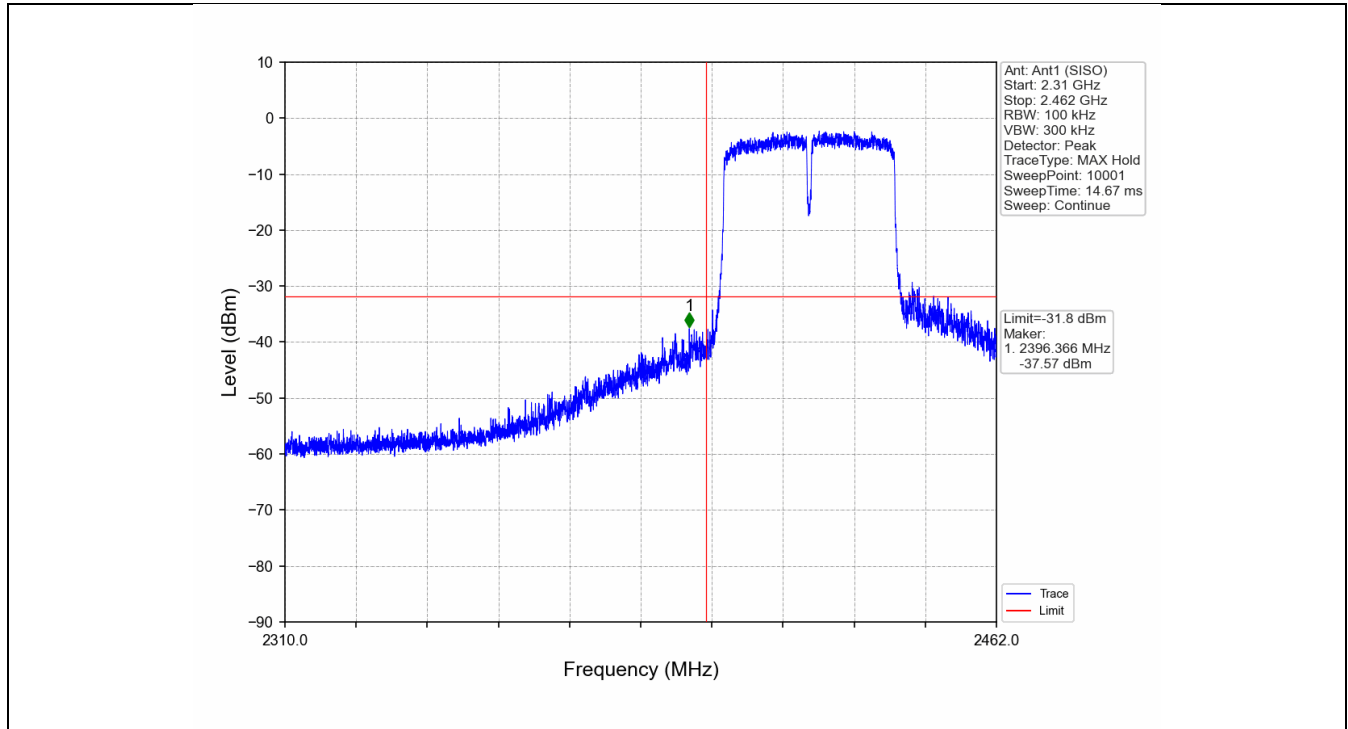


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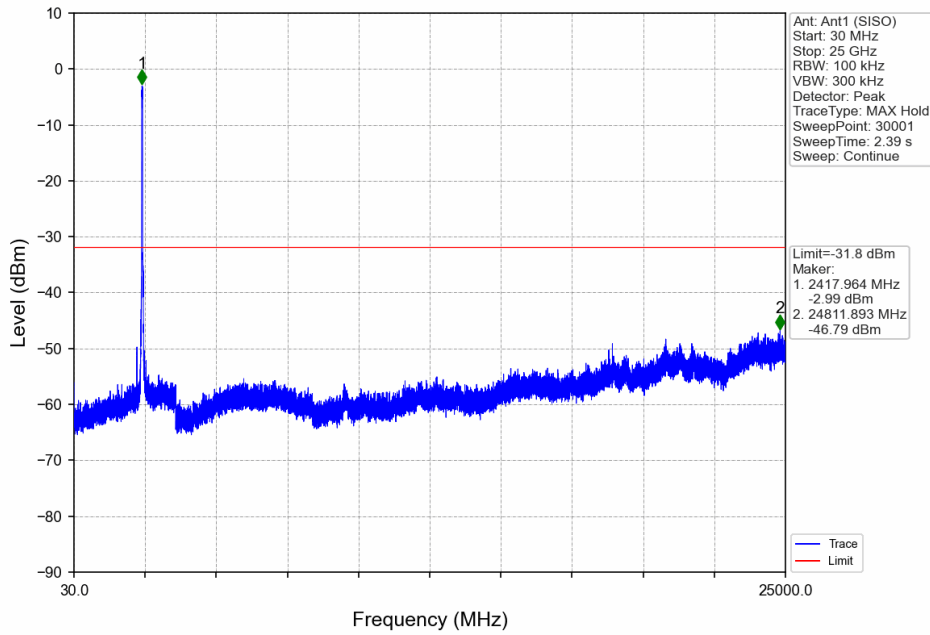
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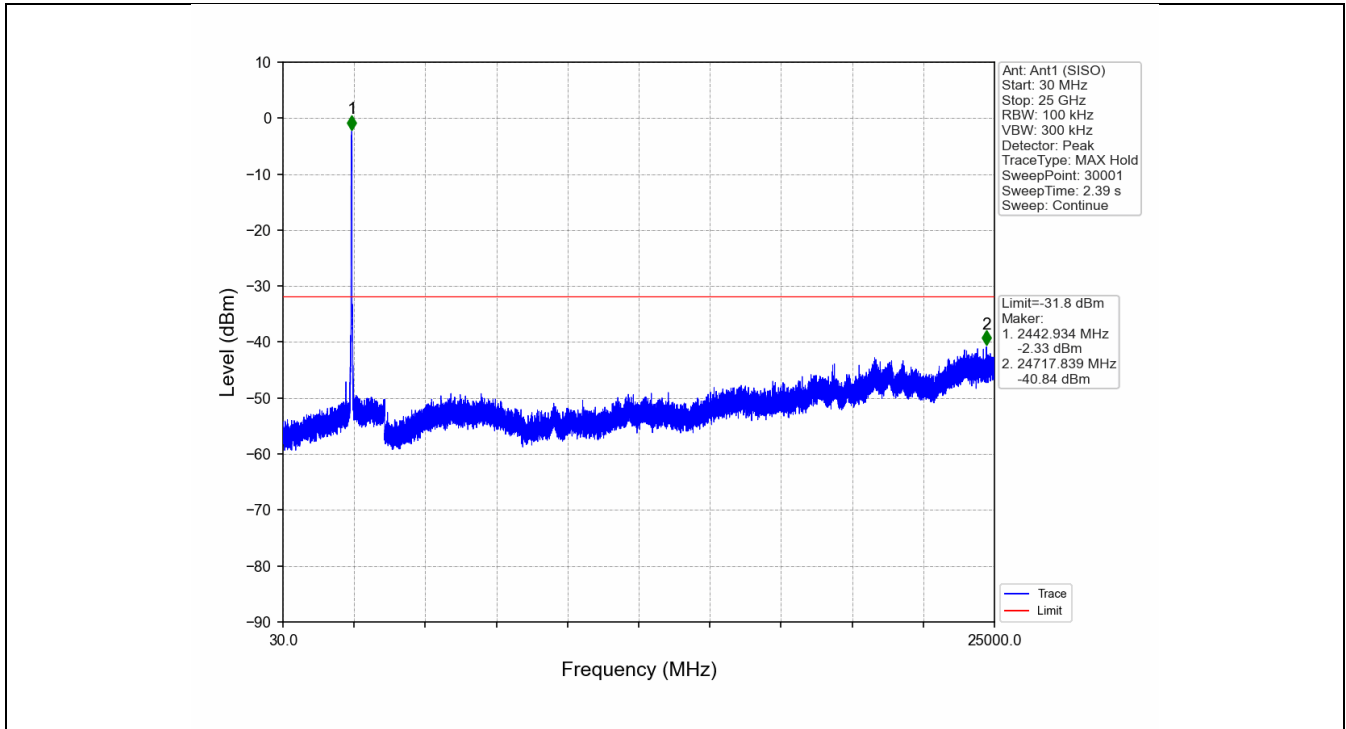


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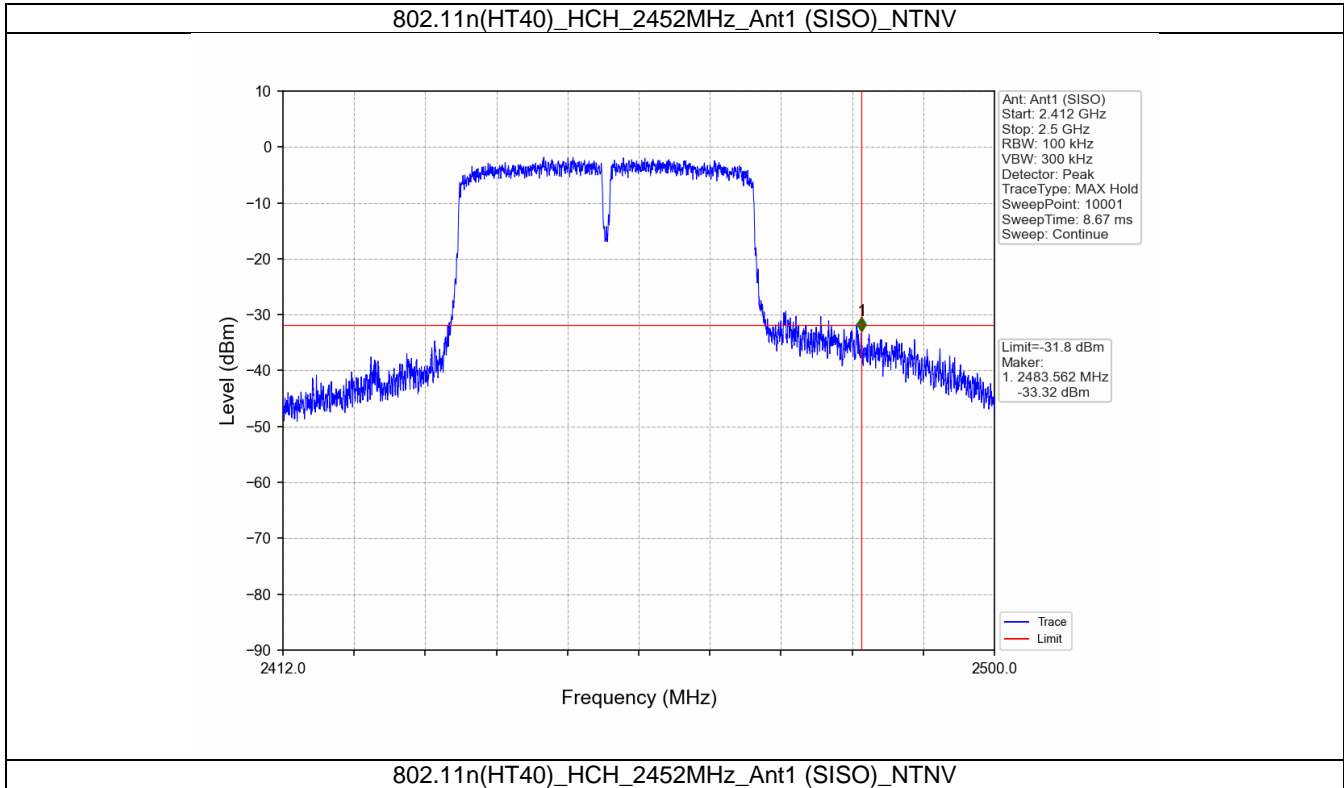


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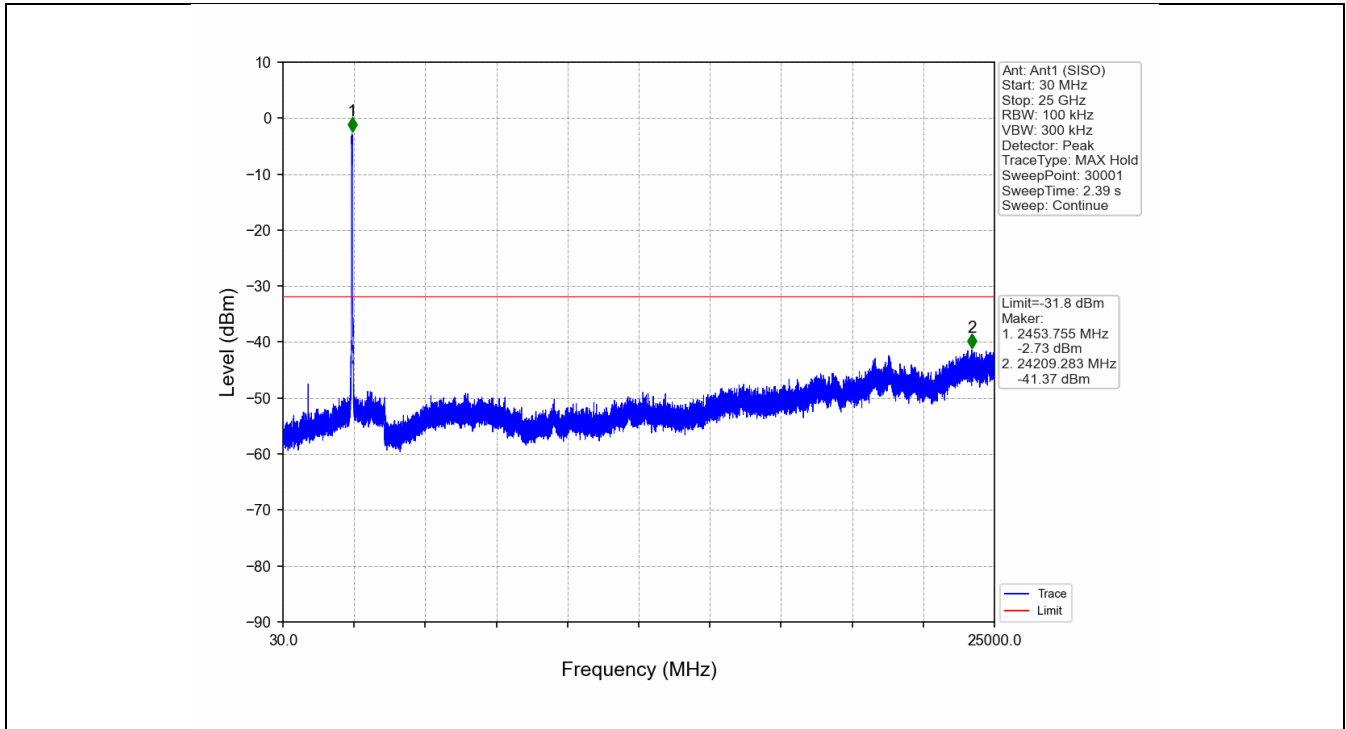
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