

Appendix A for KSCR210900009101

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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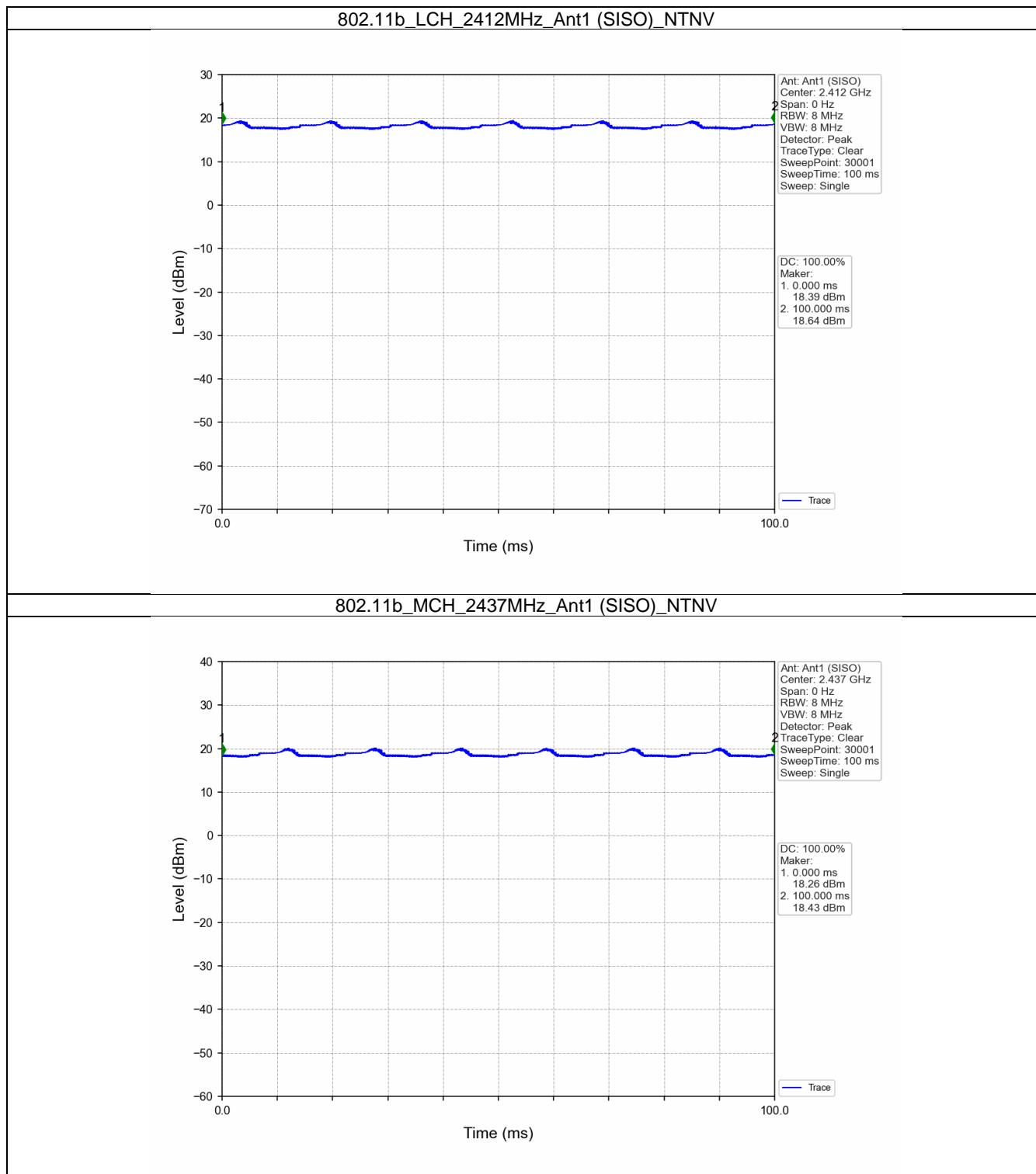
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1.1.2 Test Graph



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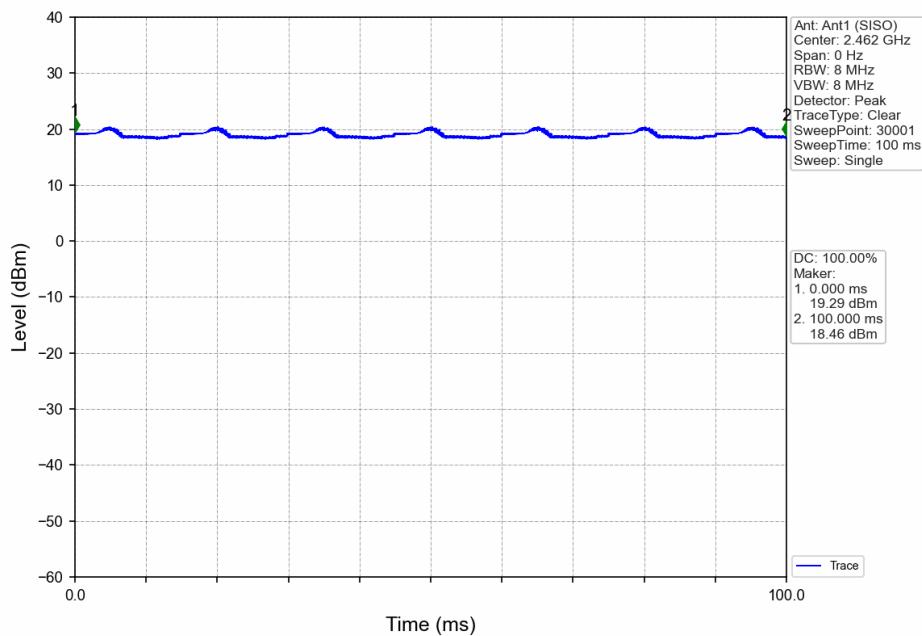
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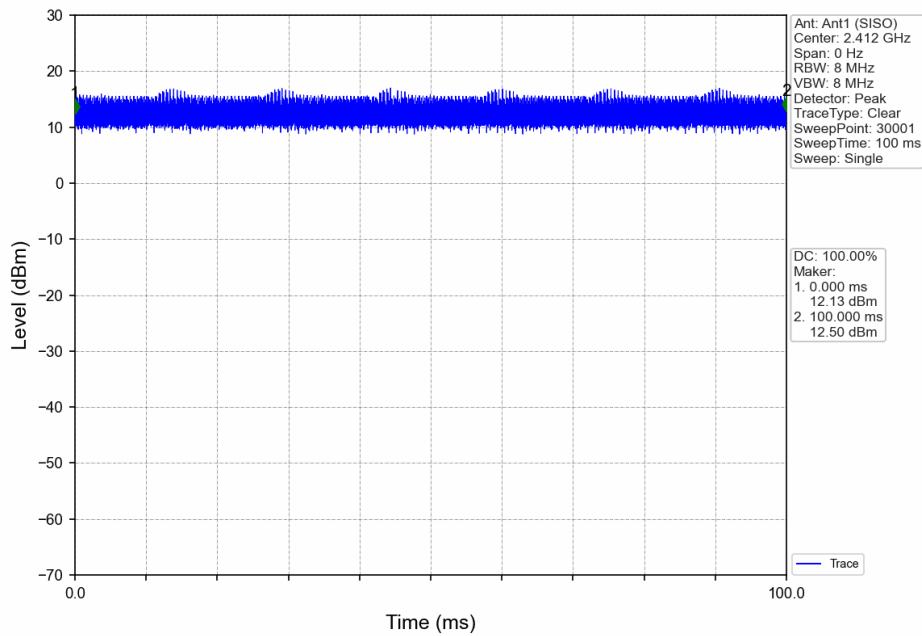
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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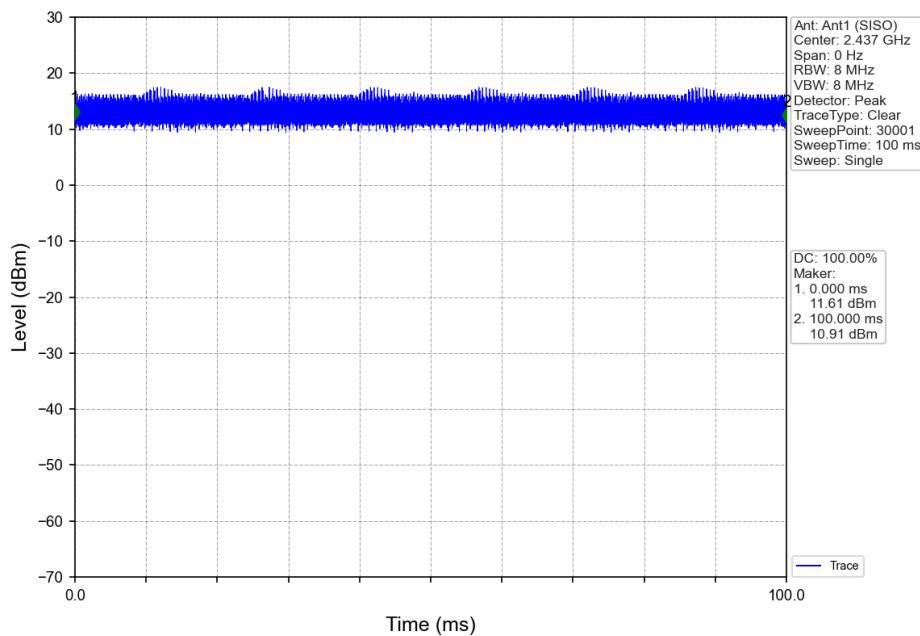
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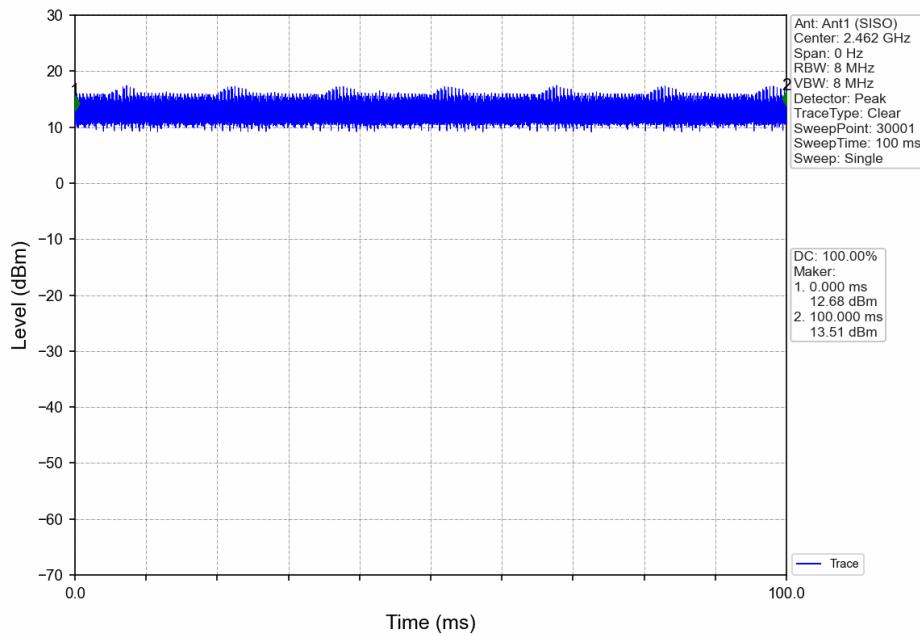
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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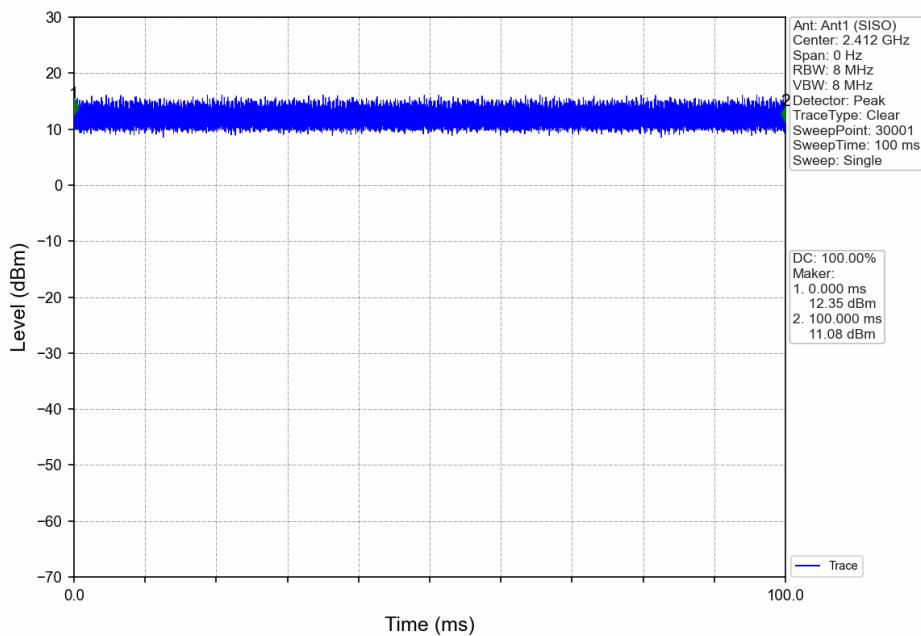
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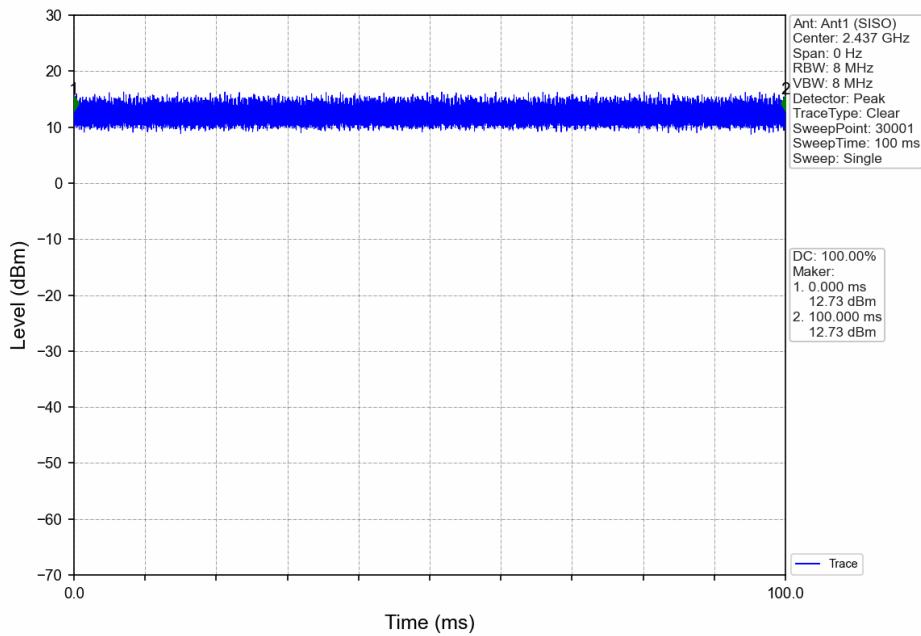
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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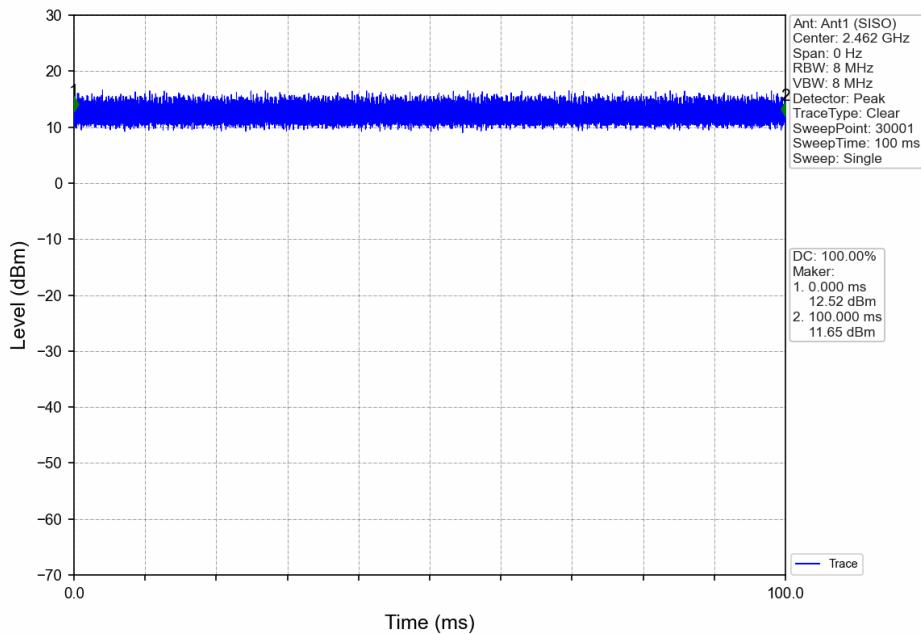
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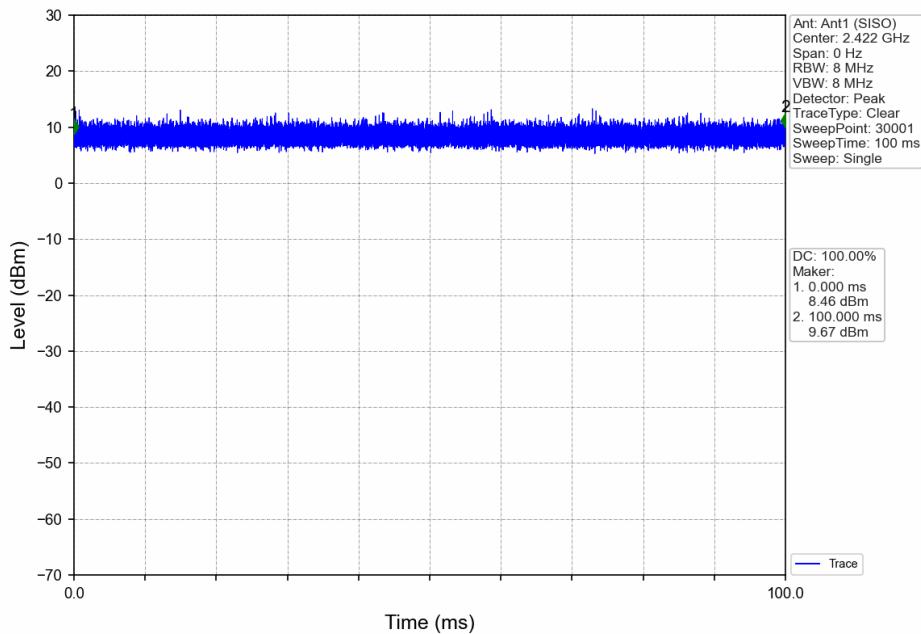
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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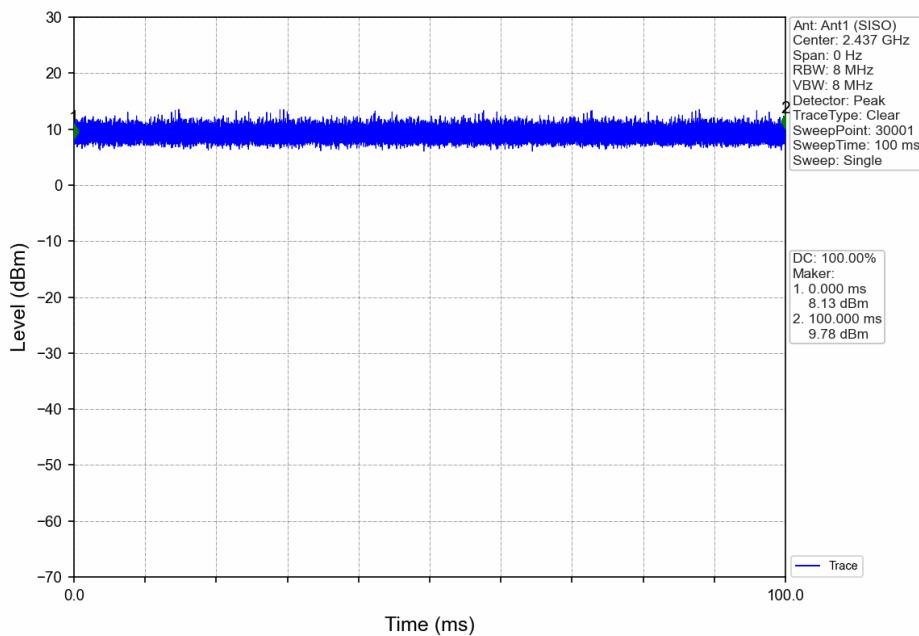
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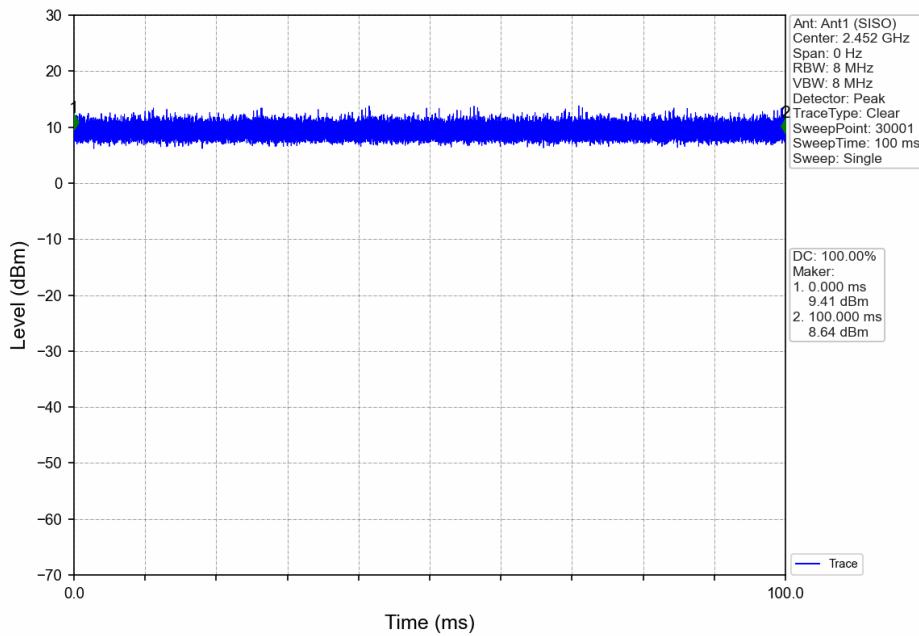
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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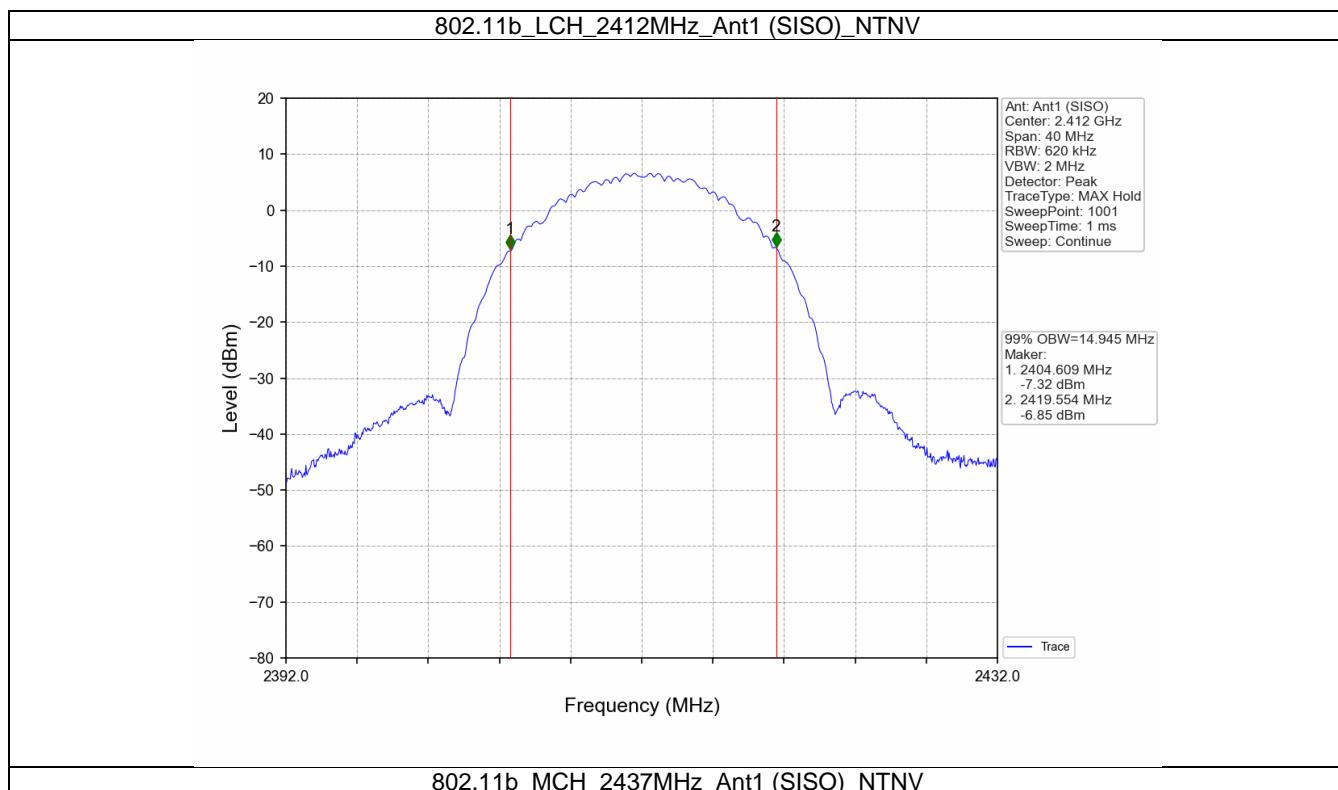
2. Bandwidth

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	14.945		Pass
		2437	1	14.939		Pass
		2462	1	14.945		Pass
802.11g	SISO	2412	1	17.530		Pass
		2437	1	17.538		Pass
		2462	1	17.555		Pass
802.11n (HT20)	SISO	2412	1	18.378		Pass
		2437	1	18.373		Pass
		2462	1	18.384		Pass
802.11n (HT40)	SISO	2422	1	36.202		Pass
		2437	1	36.232		Pass
		2452	1	36.215		Pass

2.1.2 Test Graph



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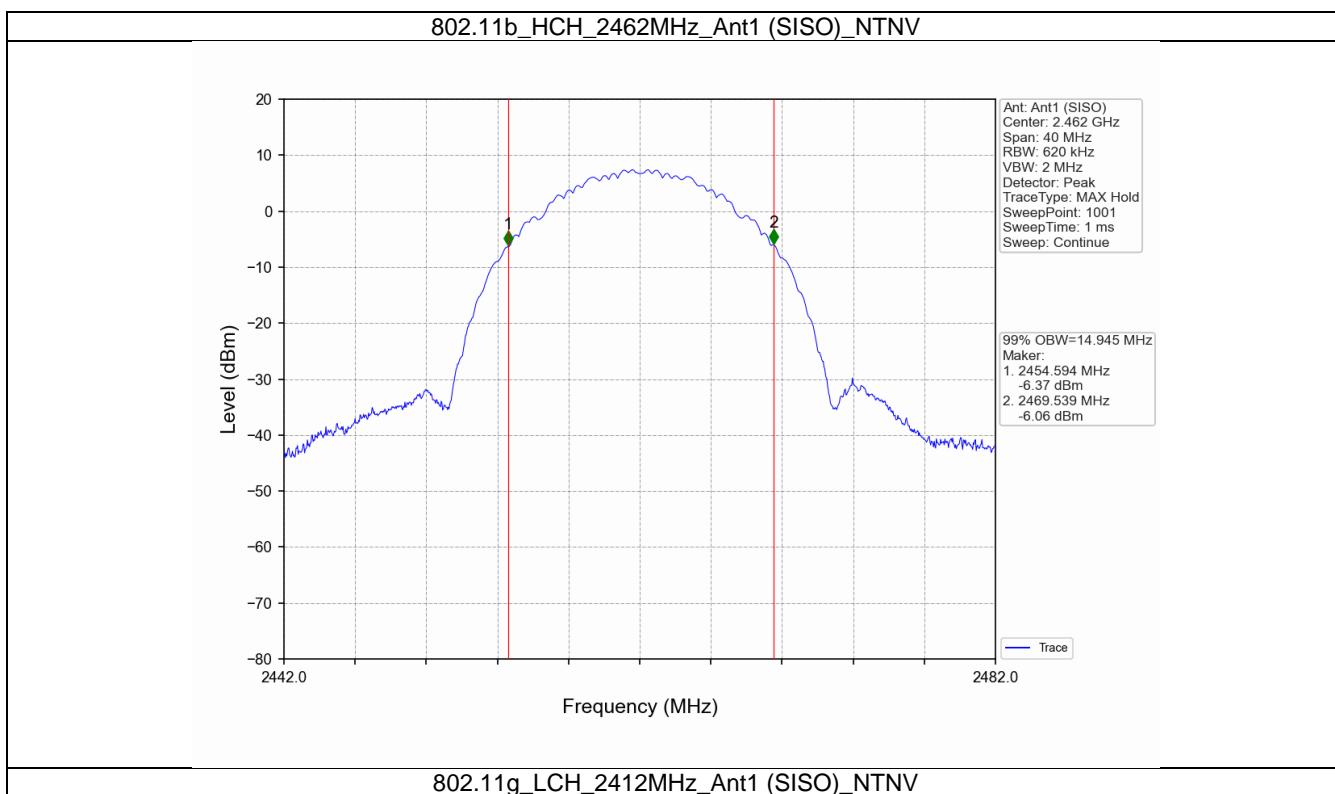
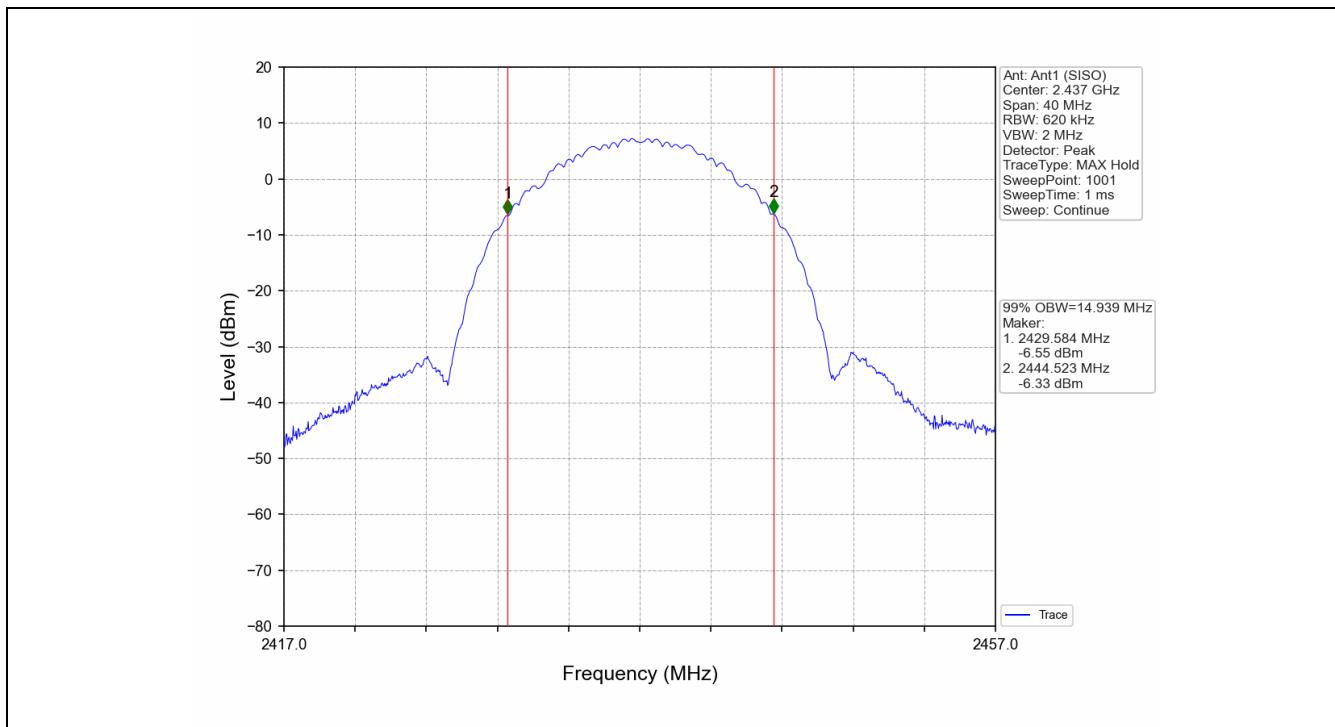
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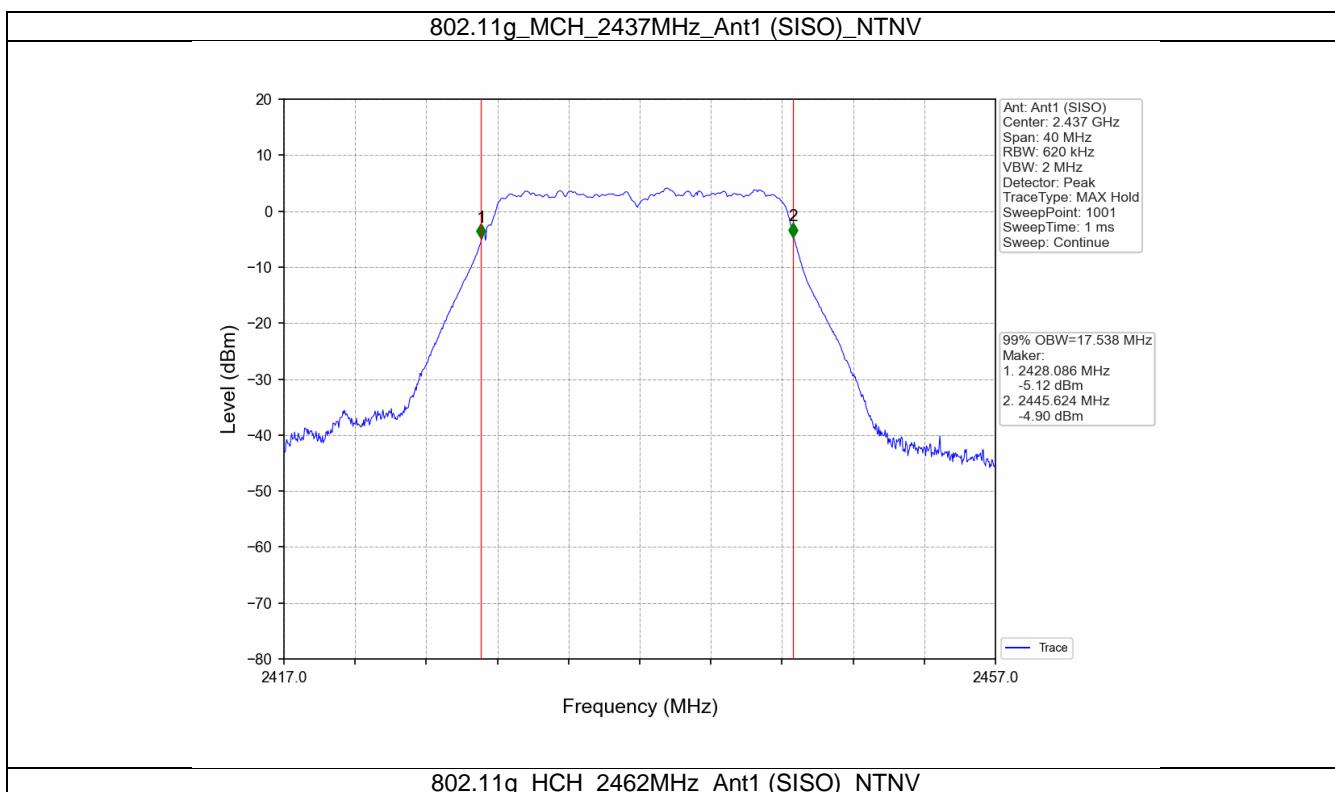
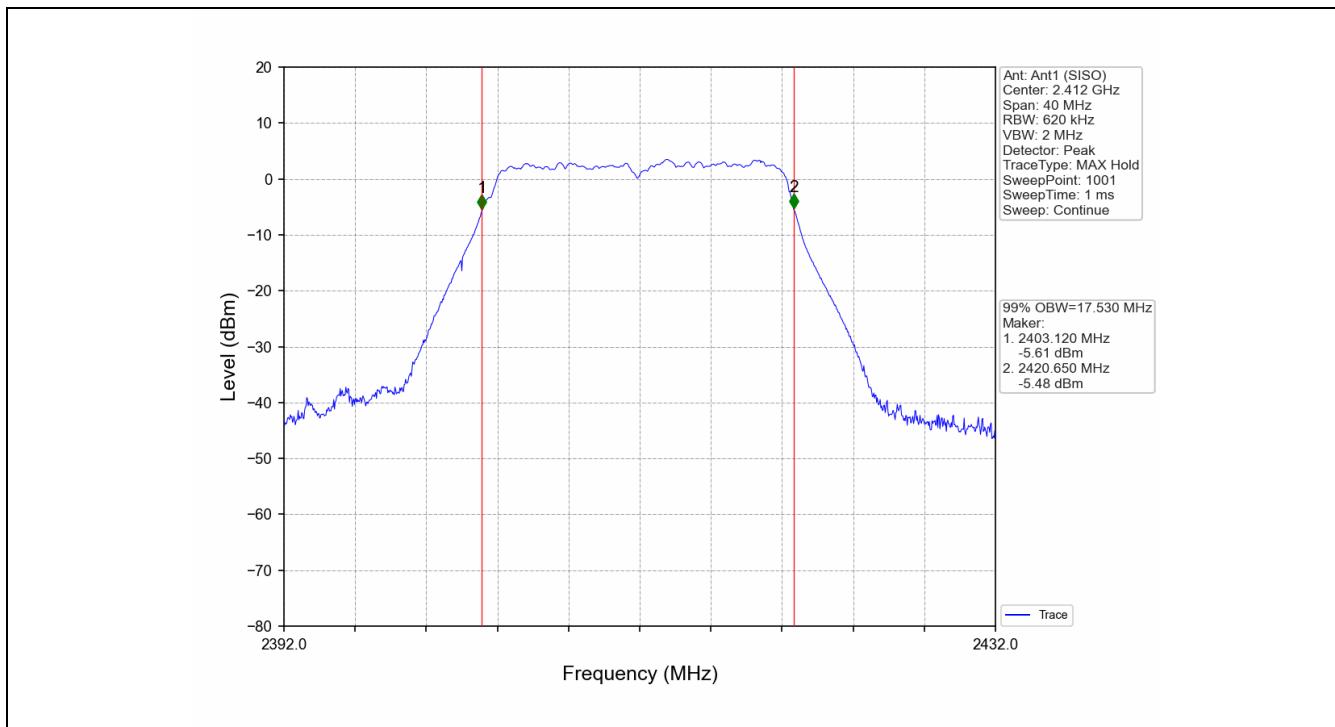
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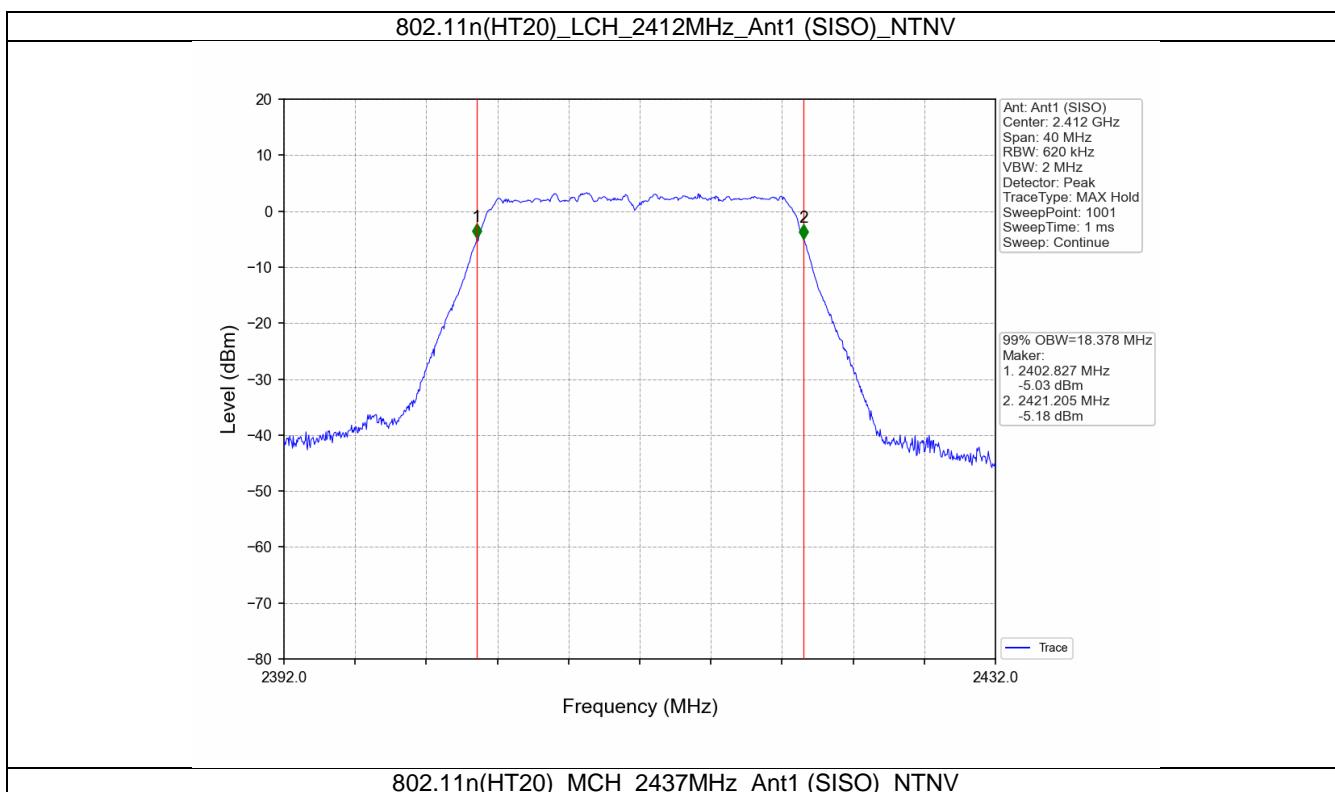
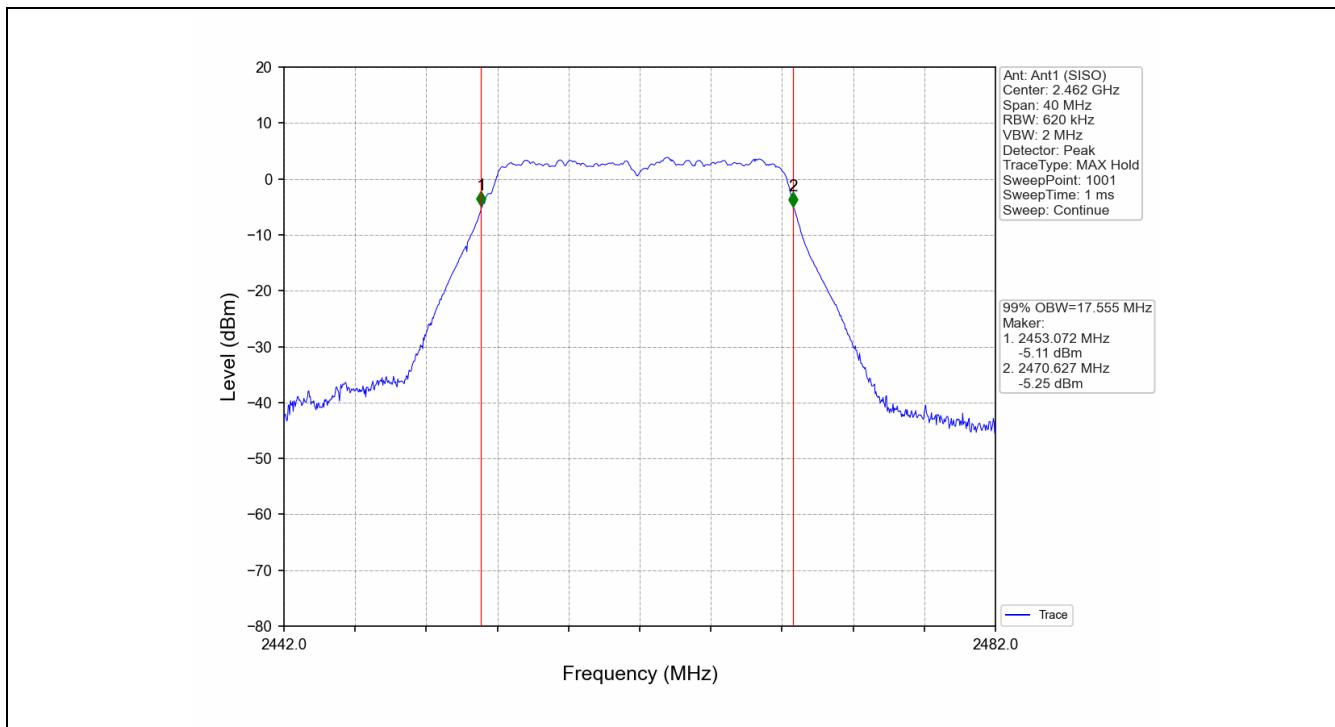
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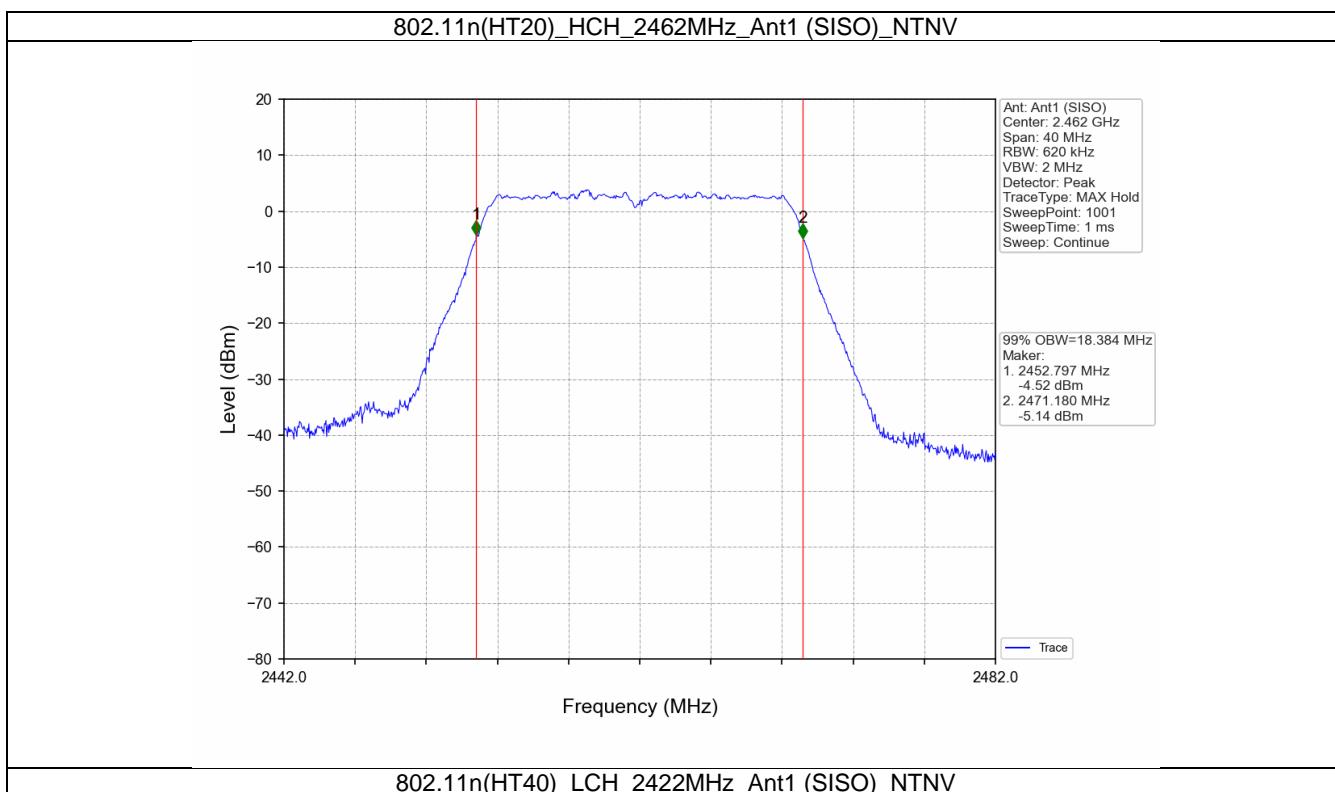
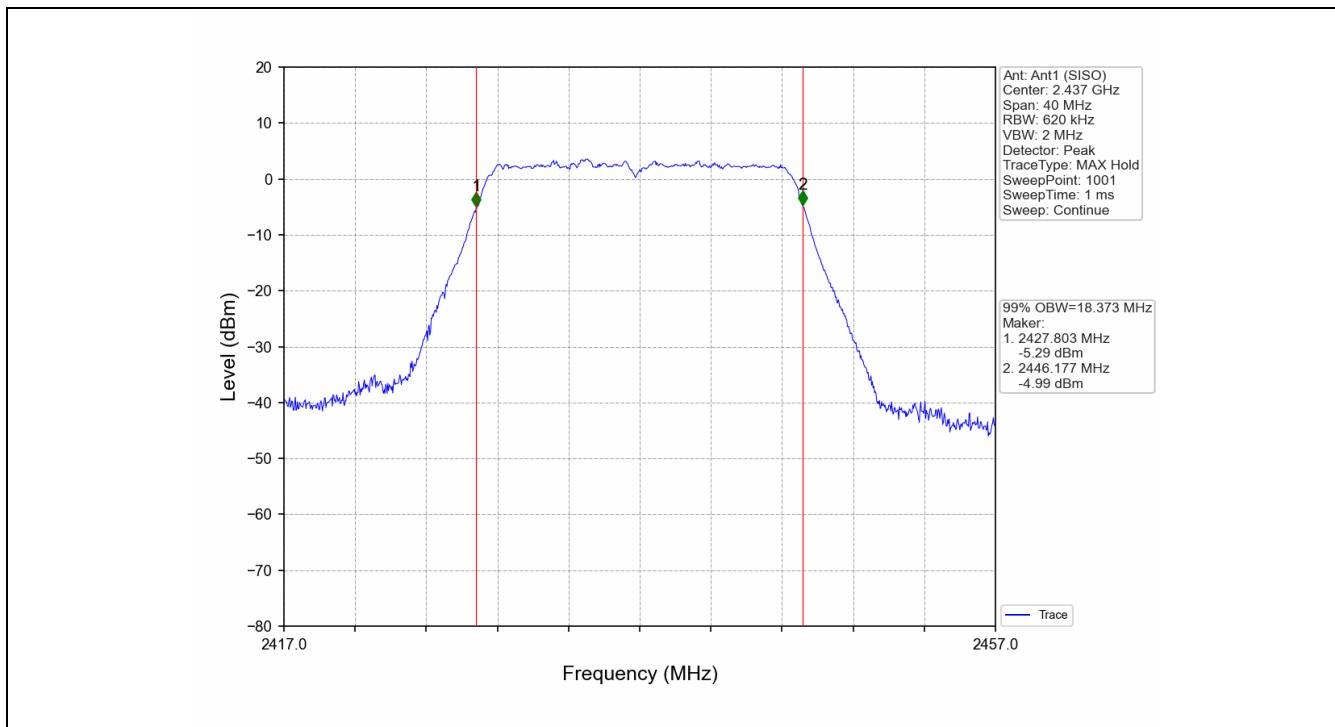
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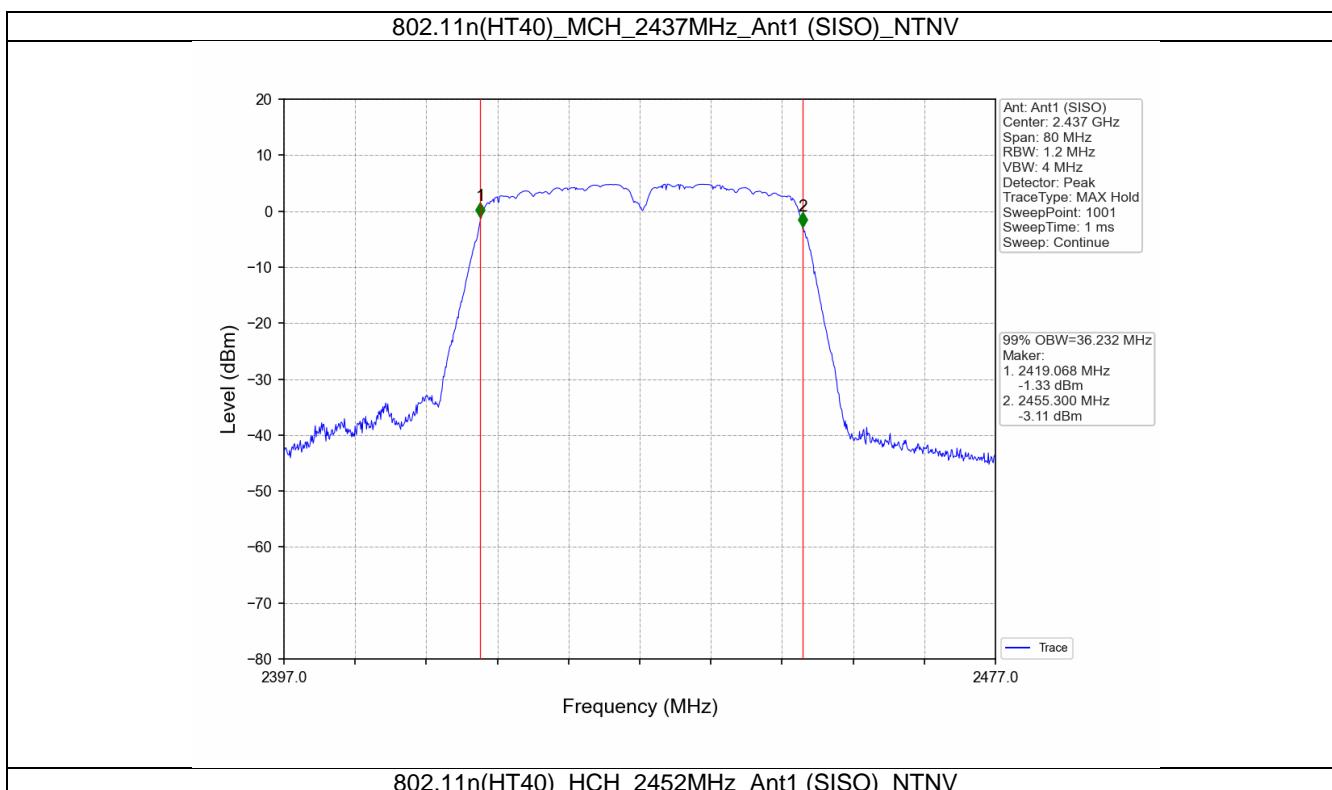
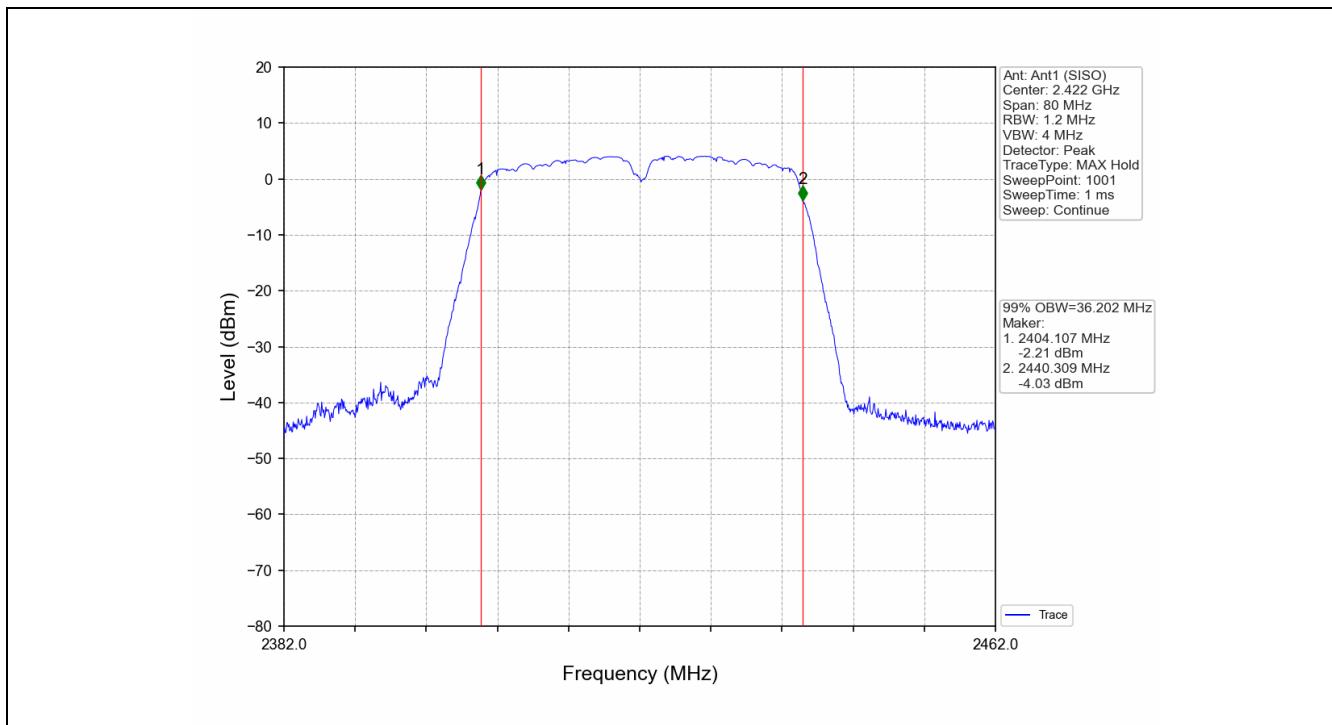
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802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTV



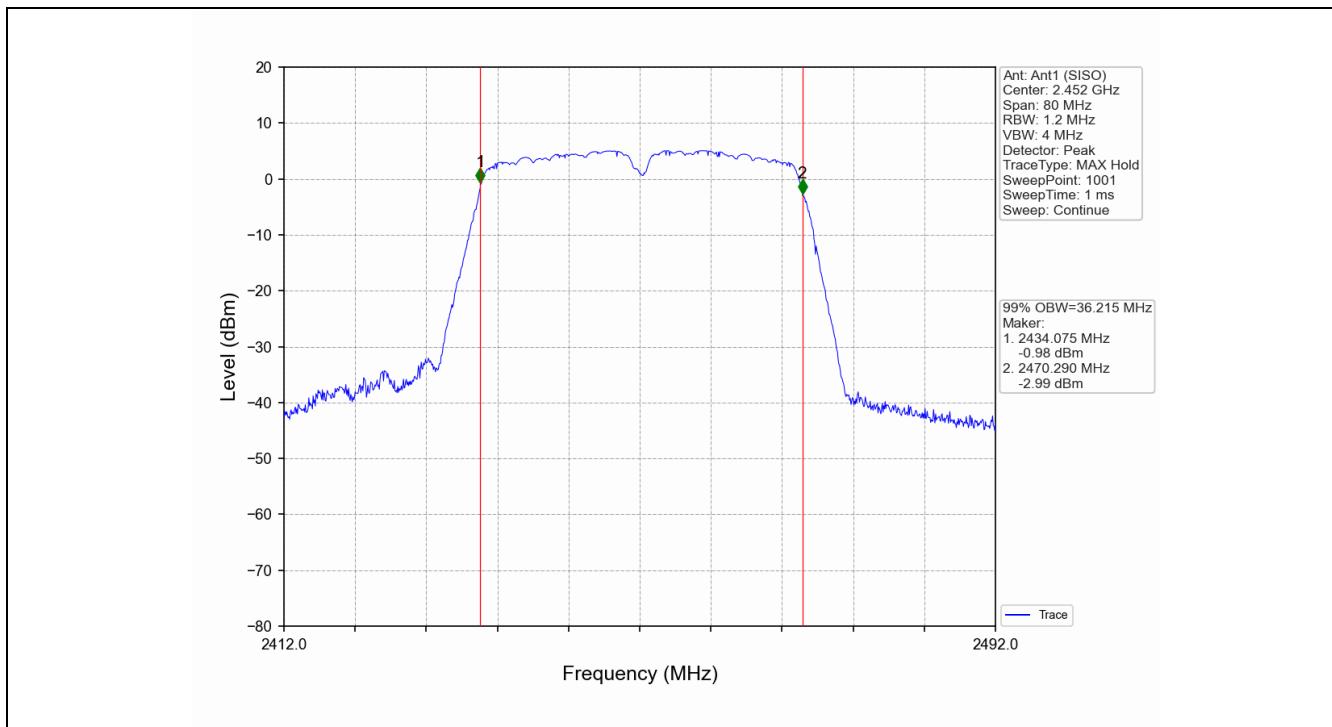
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.100	>=0.5	Pass
		2437	1	10.097	>=0.5	Pass
		2462	1	10.097	>=0.5	Pass
802.11g	SISO	2412	1	16.598	>=0.5	Pass
		2437	1	16.599	>=0.5	Pass
		2462	1	16.601	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.810	>=0.5	Pass
		2437	1	17.787	>=0.5	Pass
		2462	1	17.786	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.340	>=0.5	Pass
		2437	1	36.365	>=0.5	Pass
		2452	1	36.363	>=0.5	Pass

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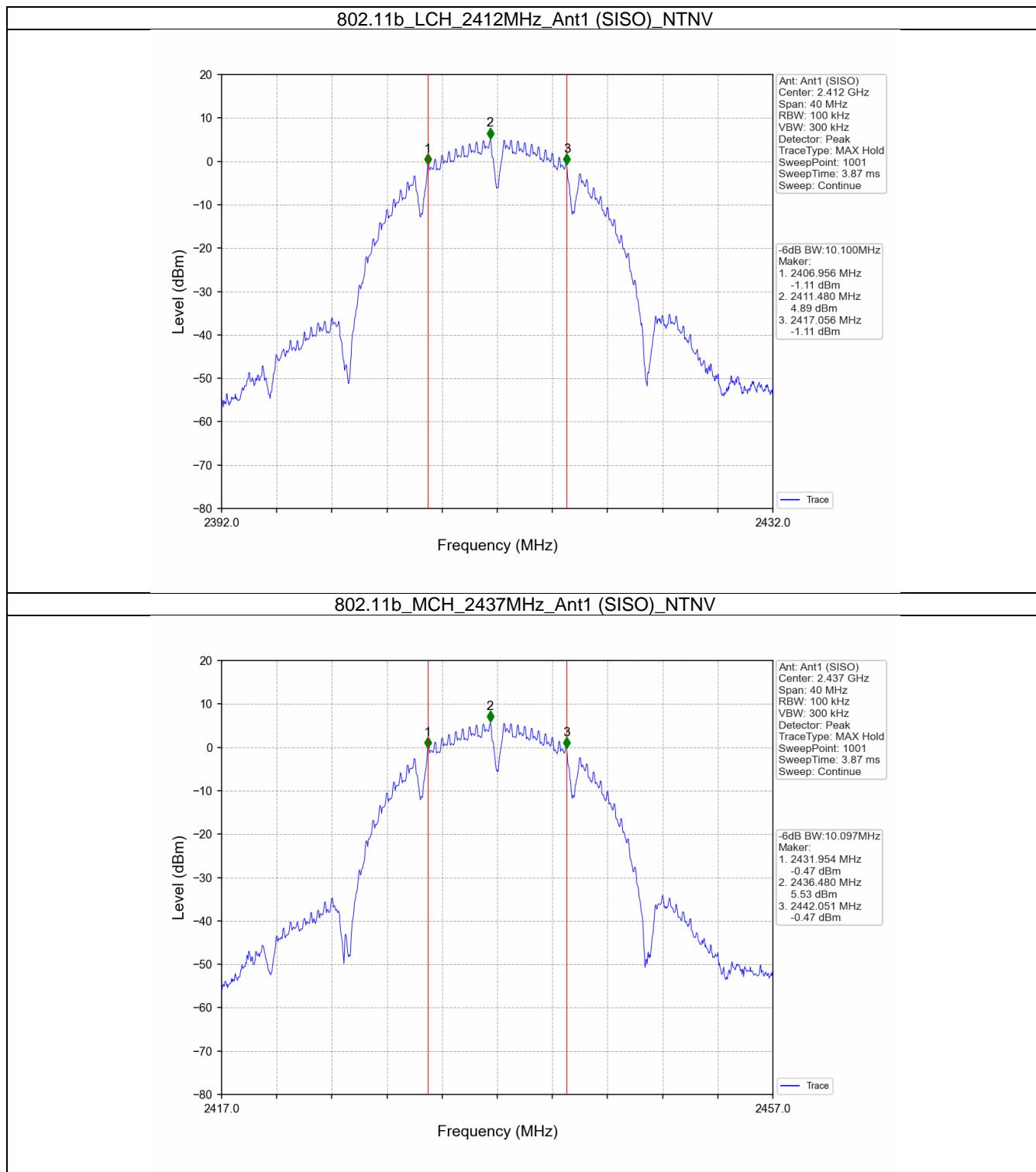


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2.2.2 Test Graph



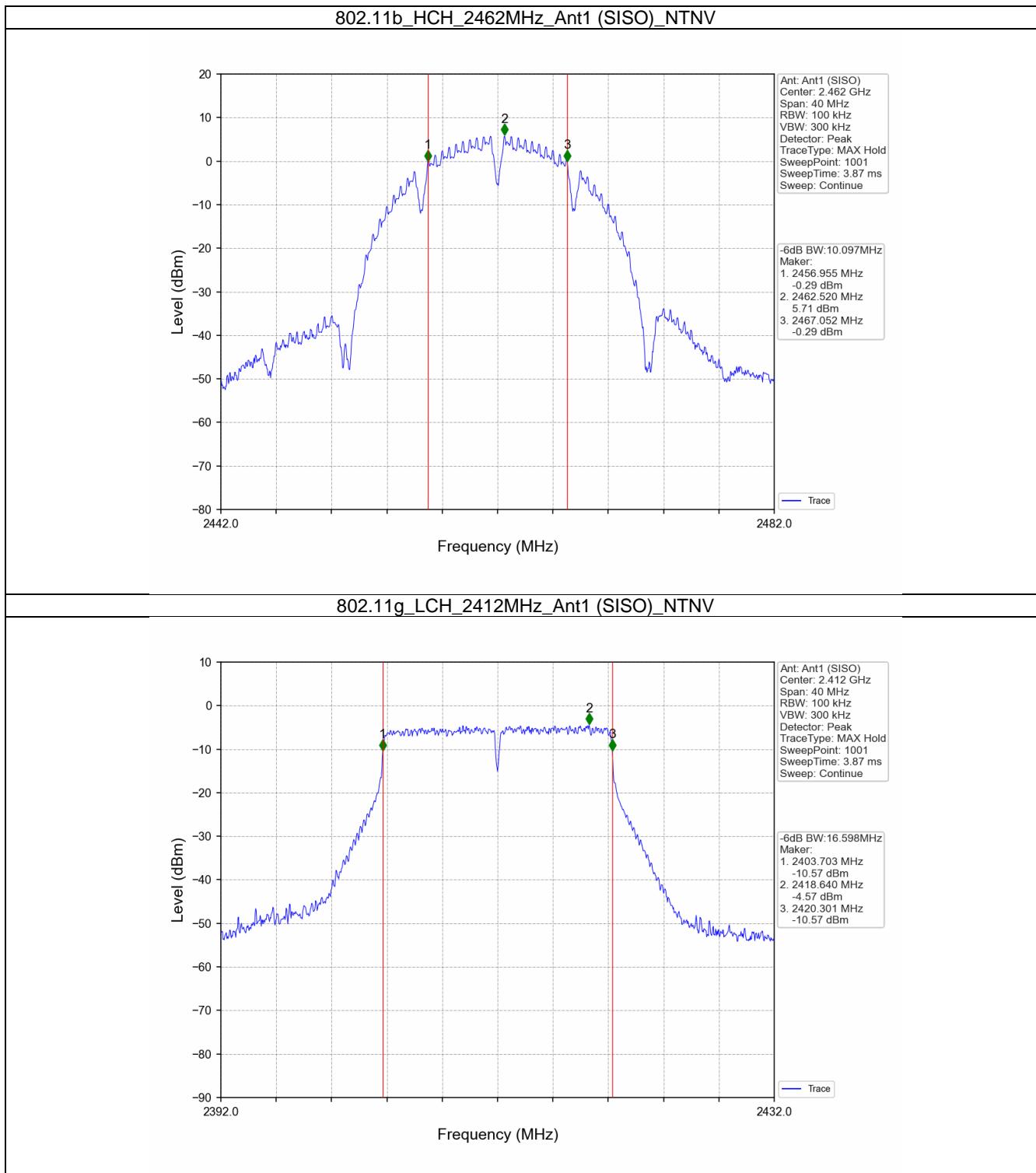
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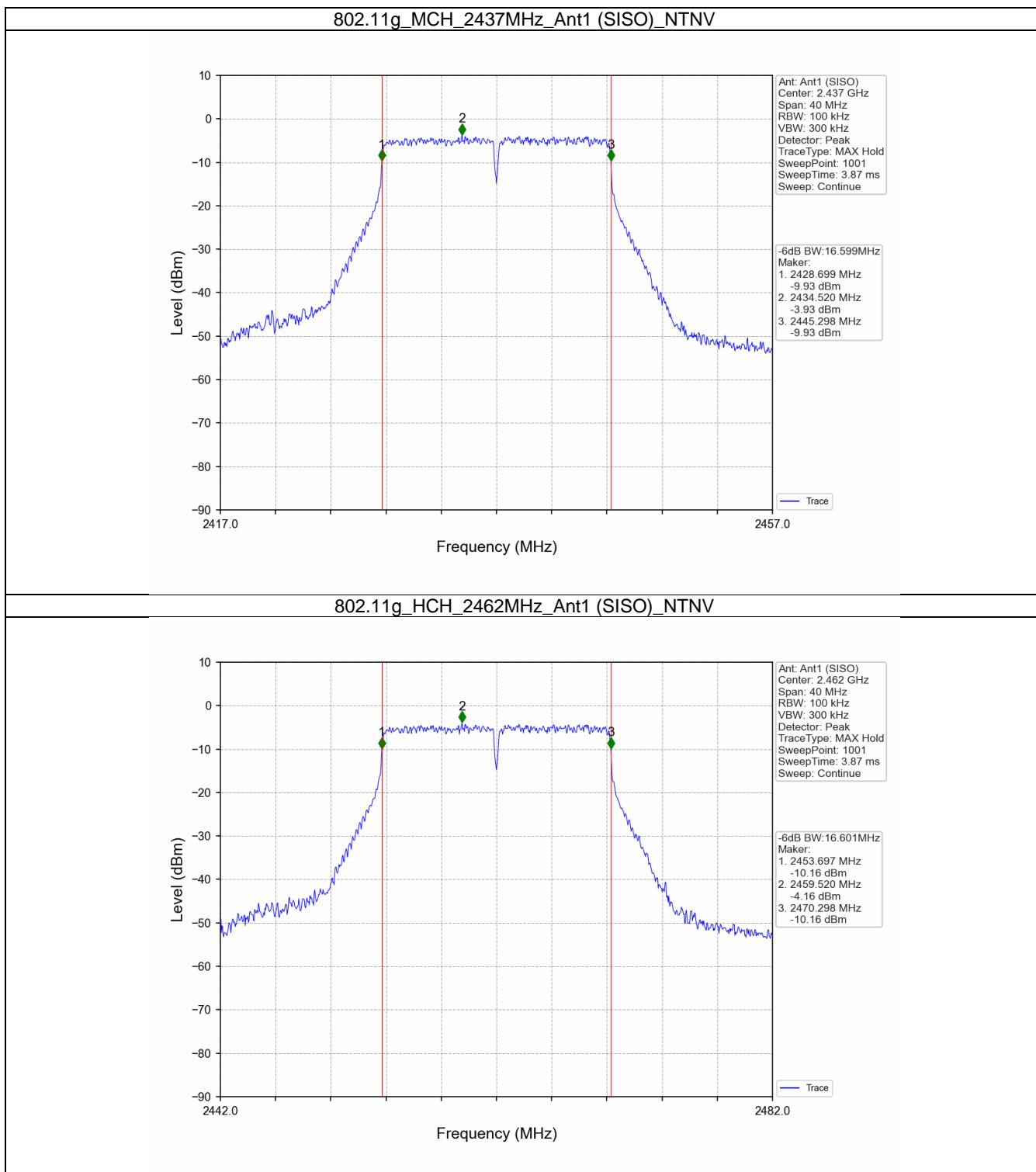
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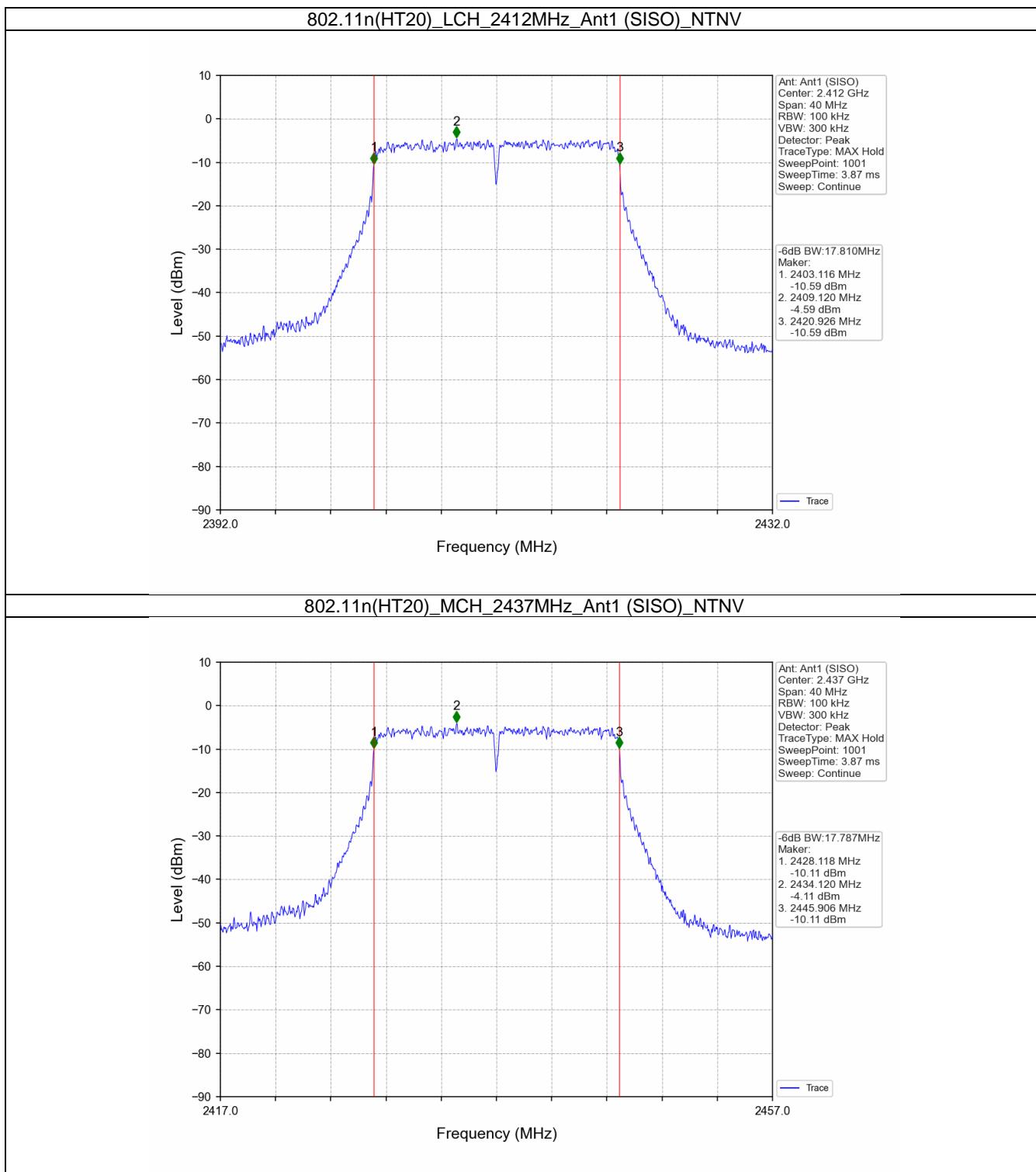
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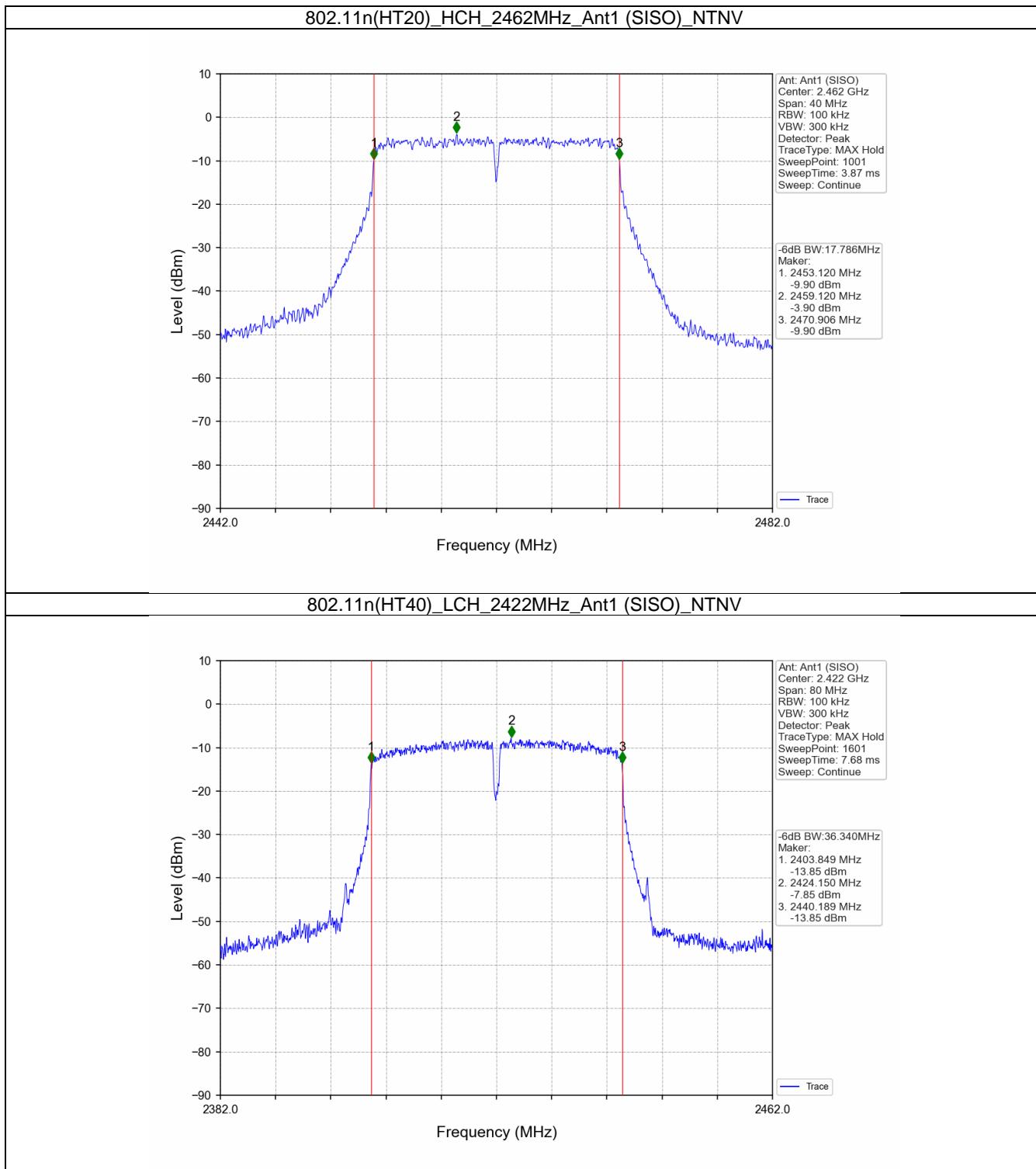
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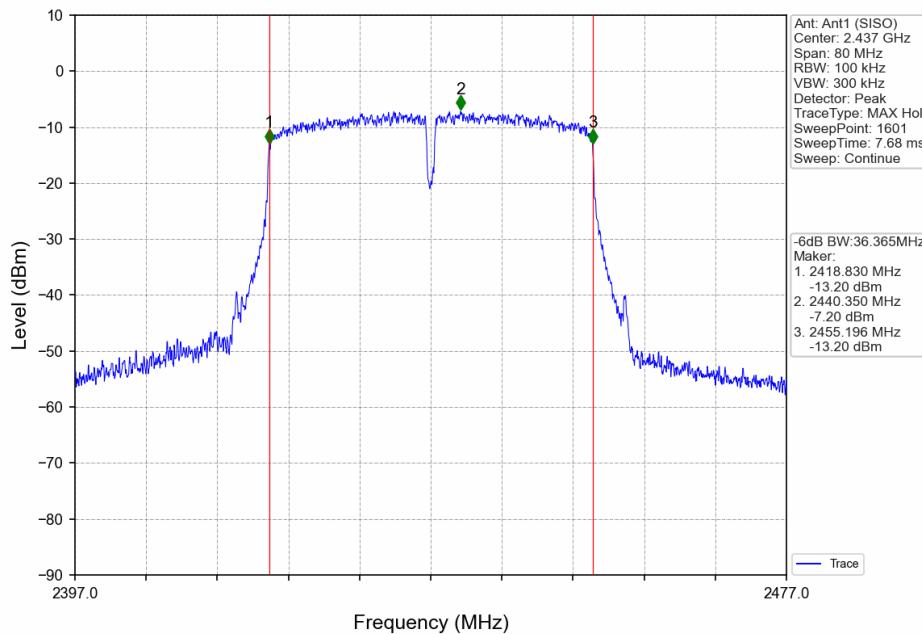
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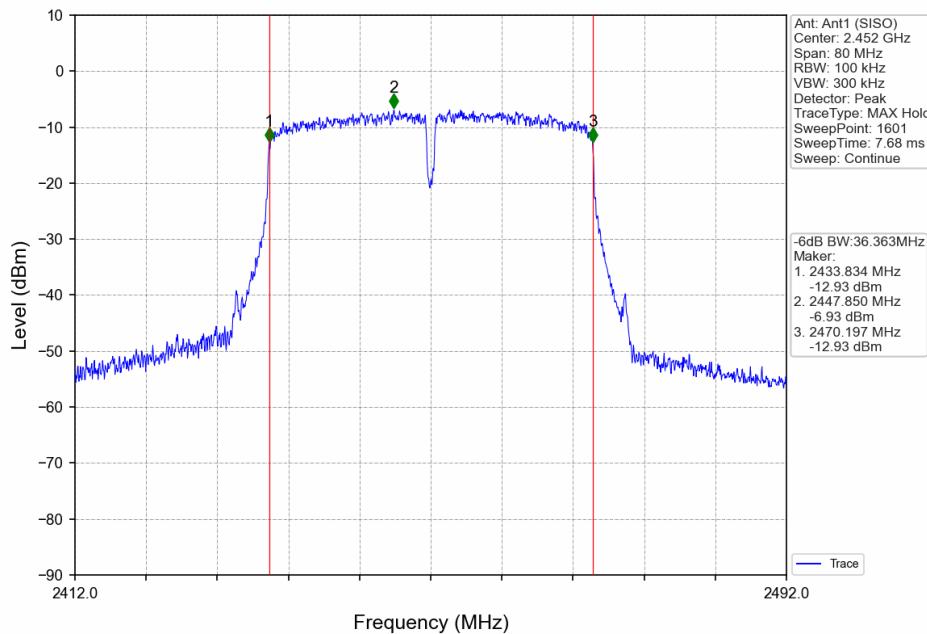
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	9.02	<=30	Pass
		2437	9.51	<=30	Pass
		2462	9.76	<=30	Pass
802.11g	SISO	2412	9.49	<=30	Pass
		2437	9.94	<=30	Pass
		2462	9.64	<=30	Pass
802.11n (HT20)	SISO	2412	9.03	<=30	Pass
		2437	9.50	<=30	Pass
		2462	9.73	<=30	Pass
802.11n (HT40)	SISO	2422	9.44	<=30	Pass
		2437	9.65	<=30	Pass
		2452	9.81	<=30	Pass

Note1: Antenna Gain: Ant1: 2.84dBi;

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	-23.52	<=8	Pass
		2437	-23.02	<=8	Pass
		2462	-22.74	<=8	Pass
802.11g	SISO	2412	-26.57	<=8	Pass
		2437	-26.41	<=8	Pass
		2462	-26.33	<=8	Pass
802.11n (HT20)	SISO	2412	-26.81	<=8	Pass
		2437	-26.33	<=8	Pass
		2462	-26.05	<=8	Pass
802.11n (HT40)	SISO	2422	-25.78	<=8	Pass
		2437	-27.73	<=8	Pass
		2452	-26.55	<=8	Pass

Note1: Antenna Gain: Ant1: 2.84dBi;

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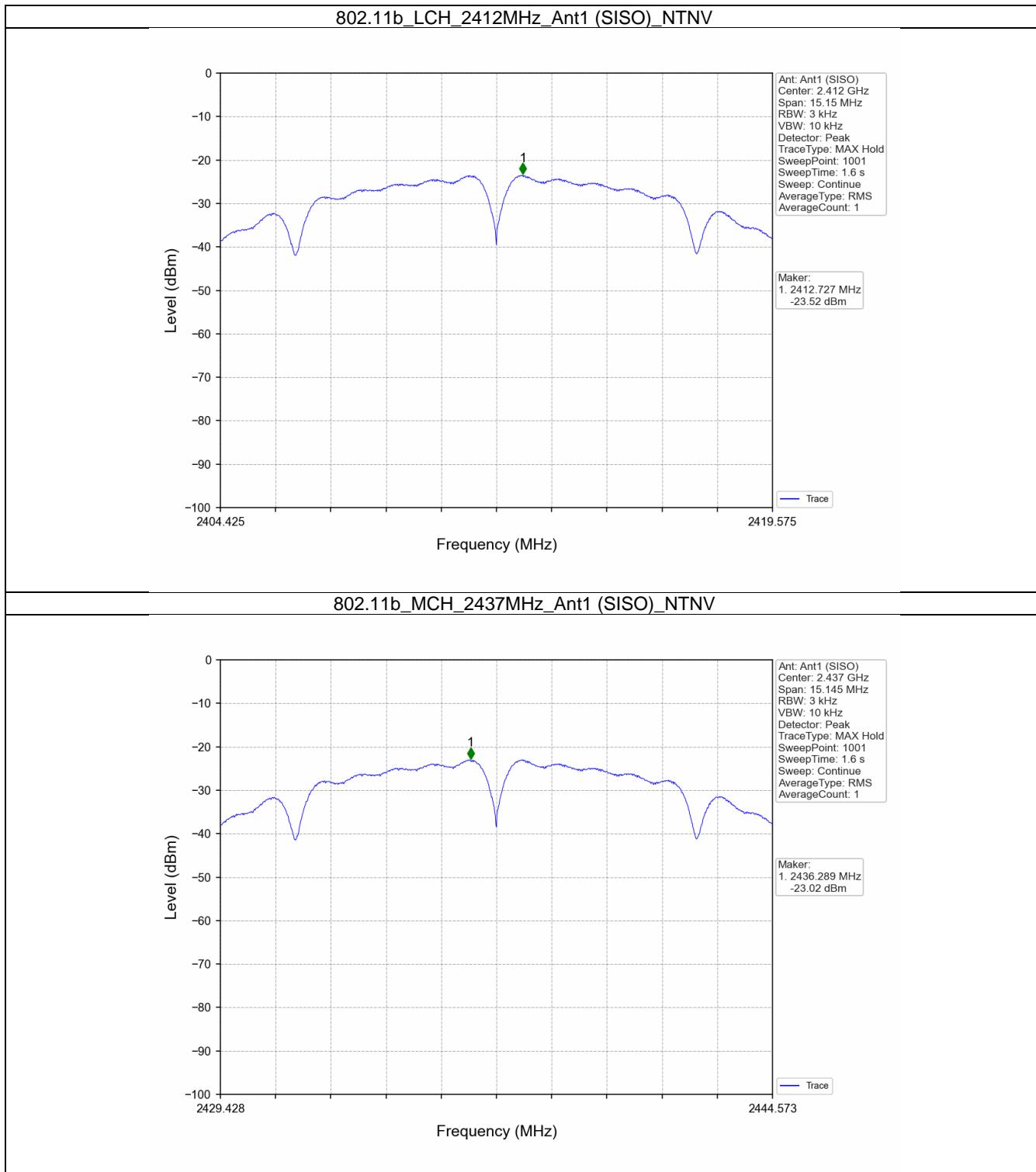
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4.1.2 Test Graph



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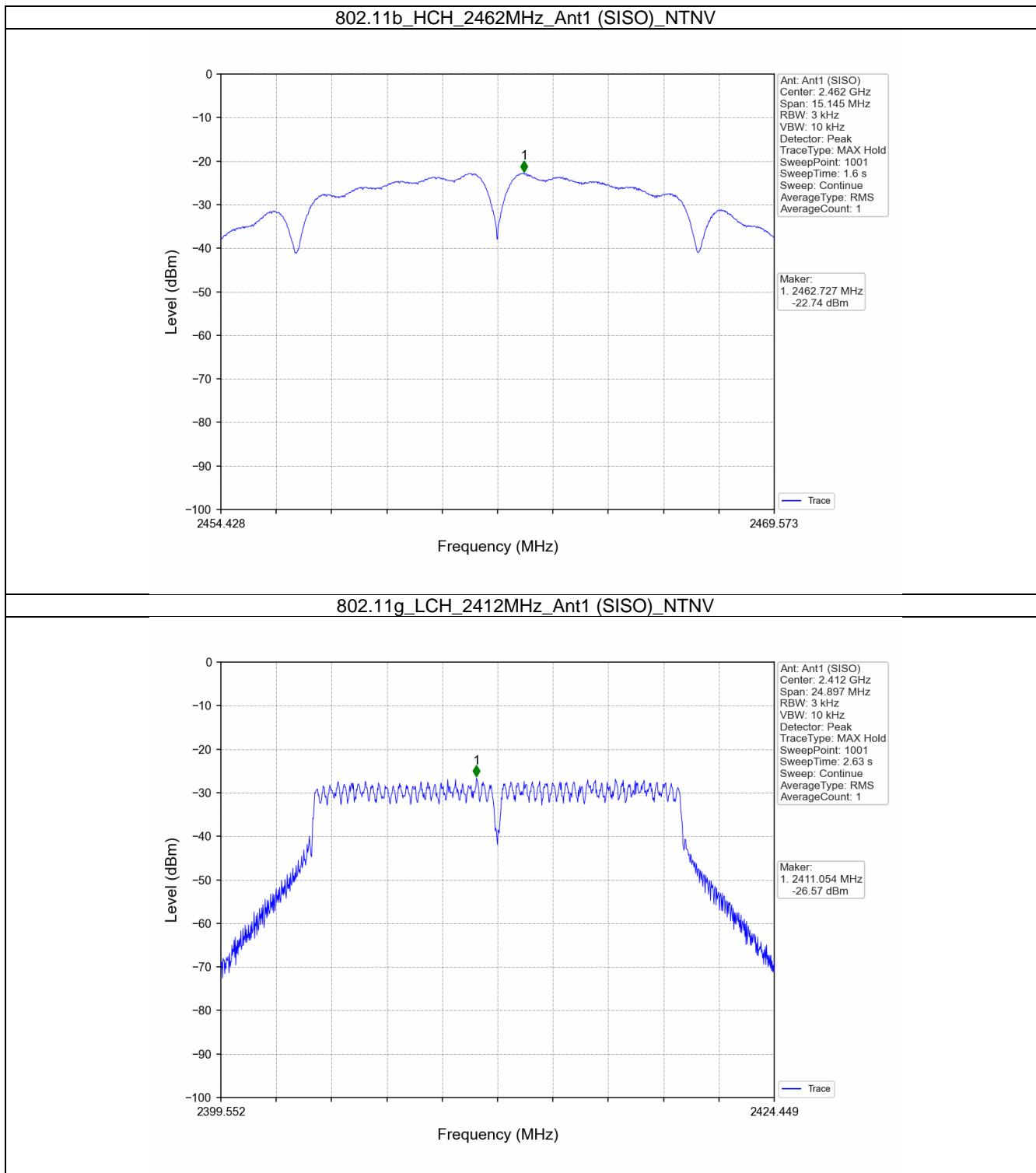
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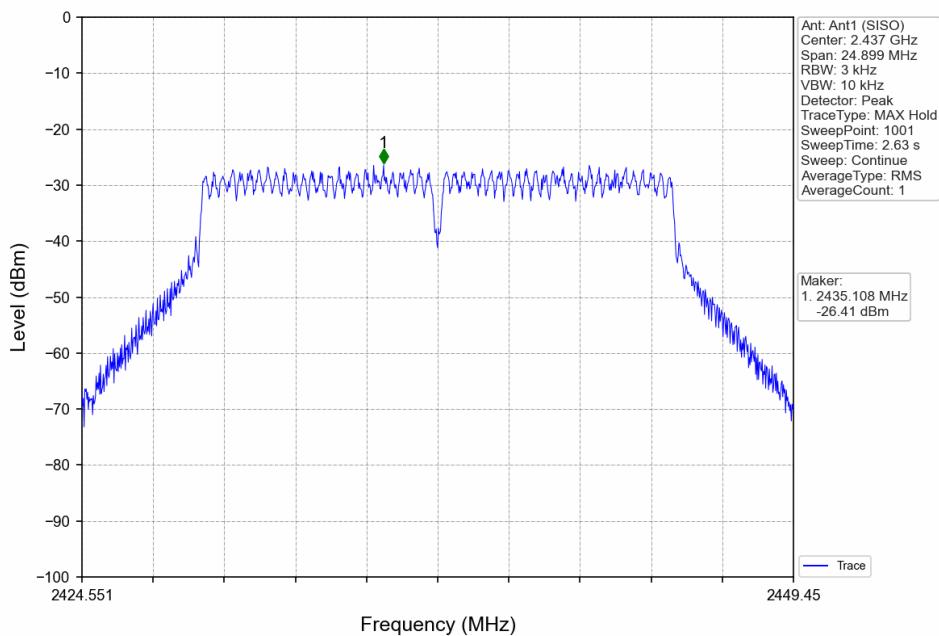
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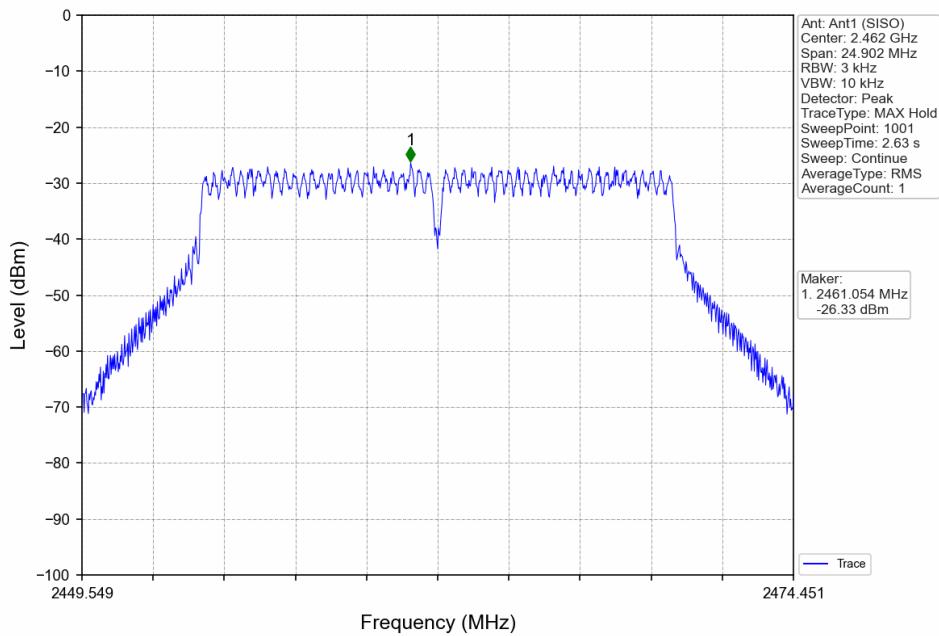
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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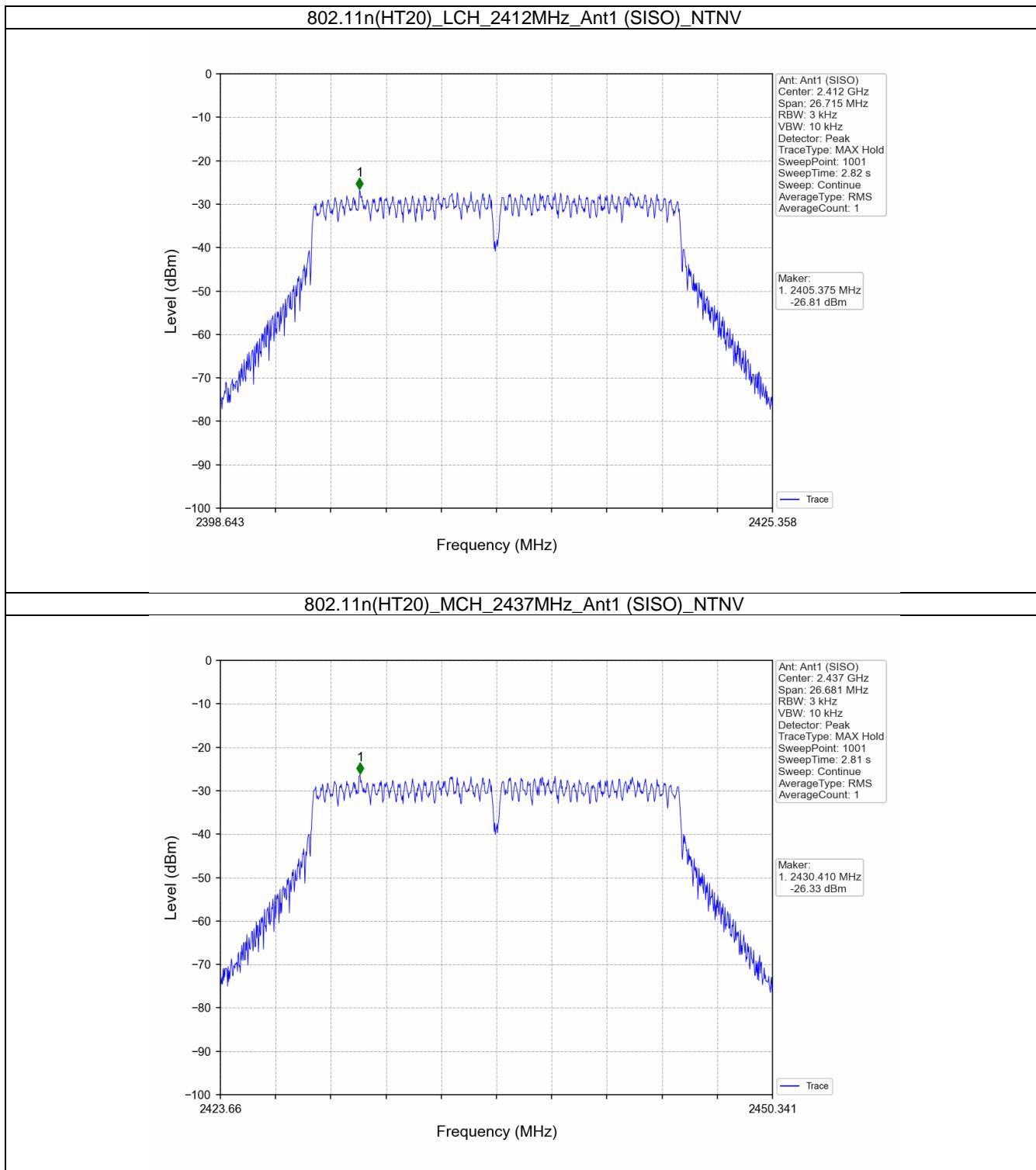
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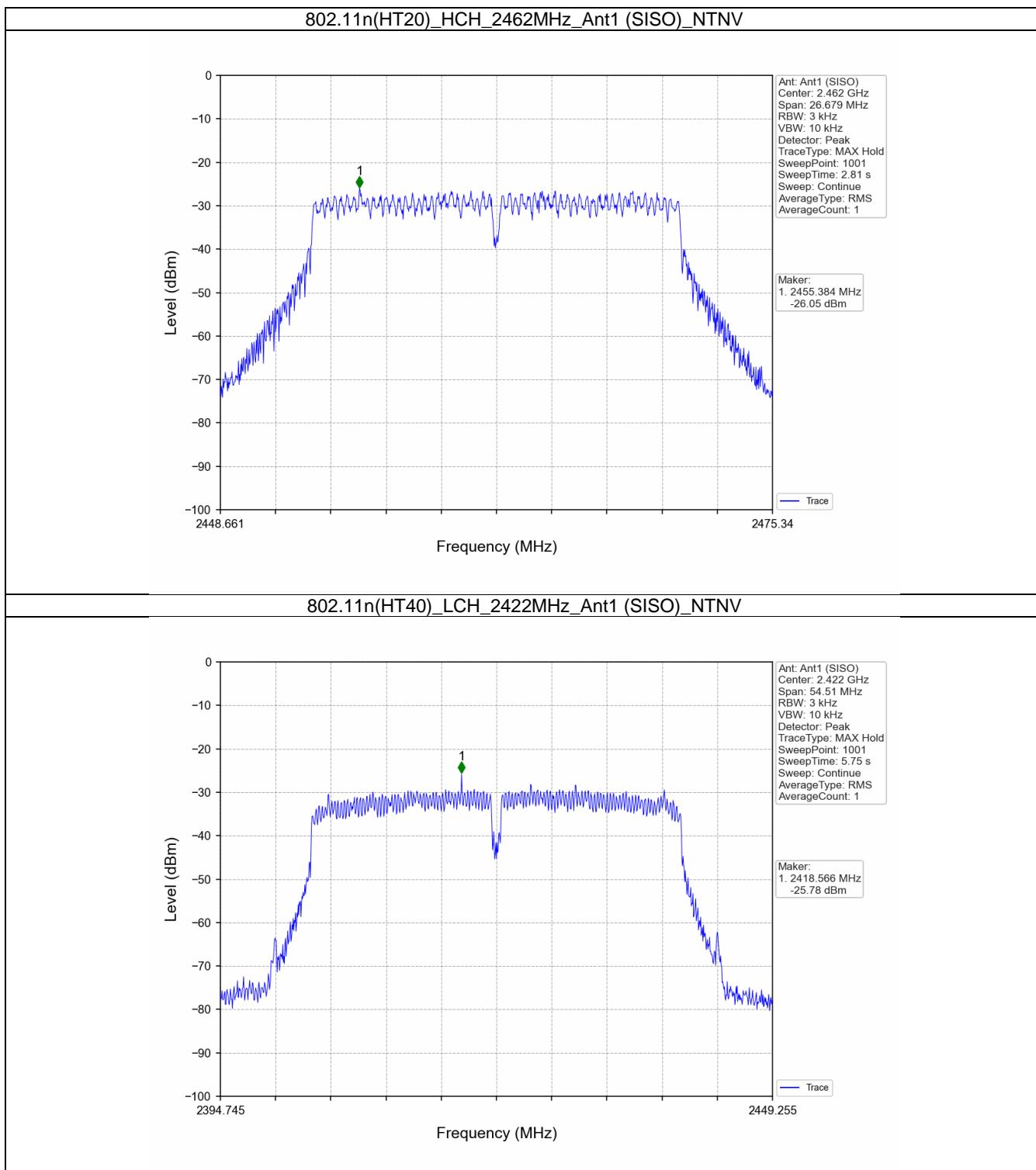
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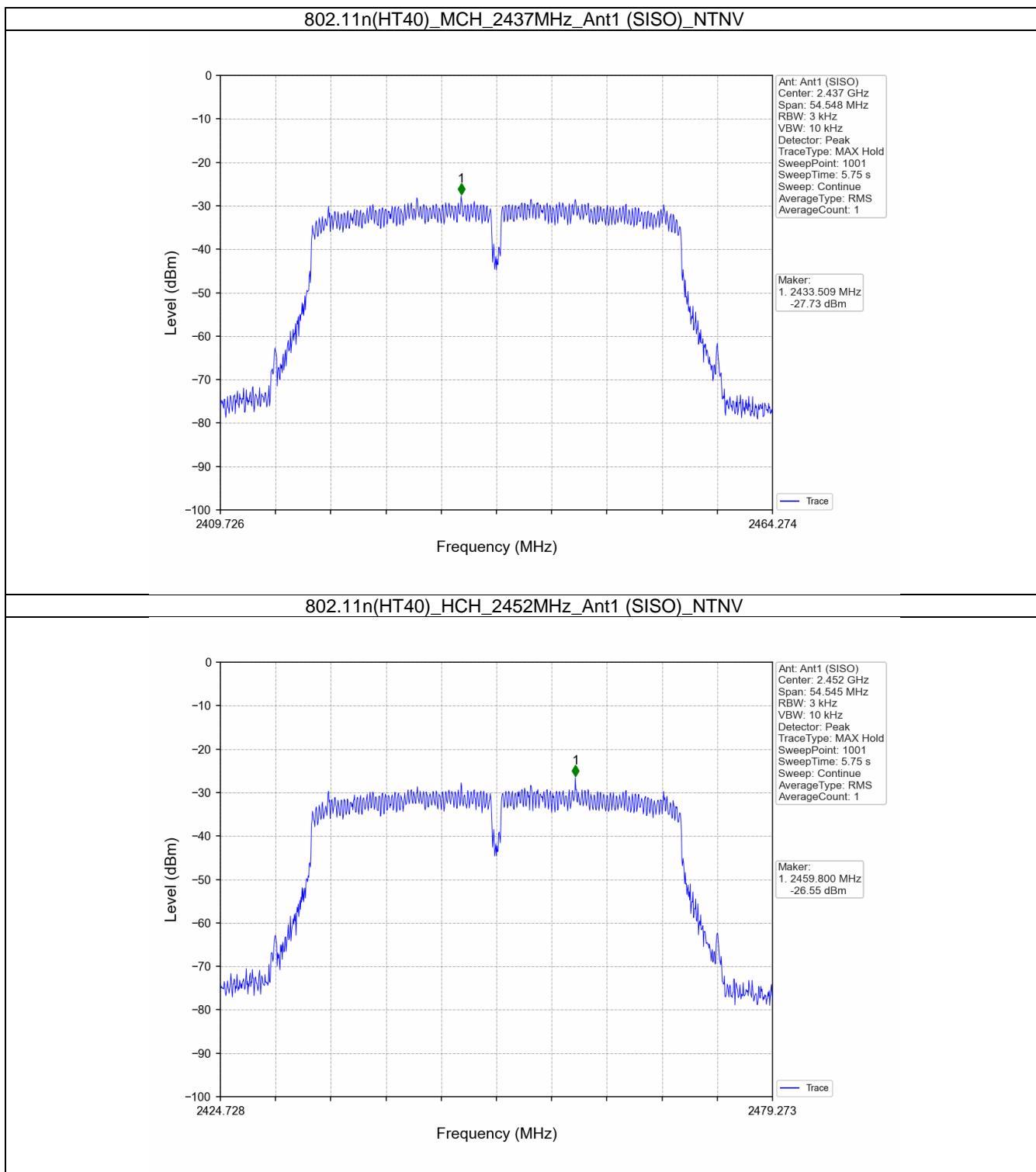
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5. Unwanted Emissions In Non-restricted Frequency Bands

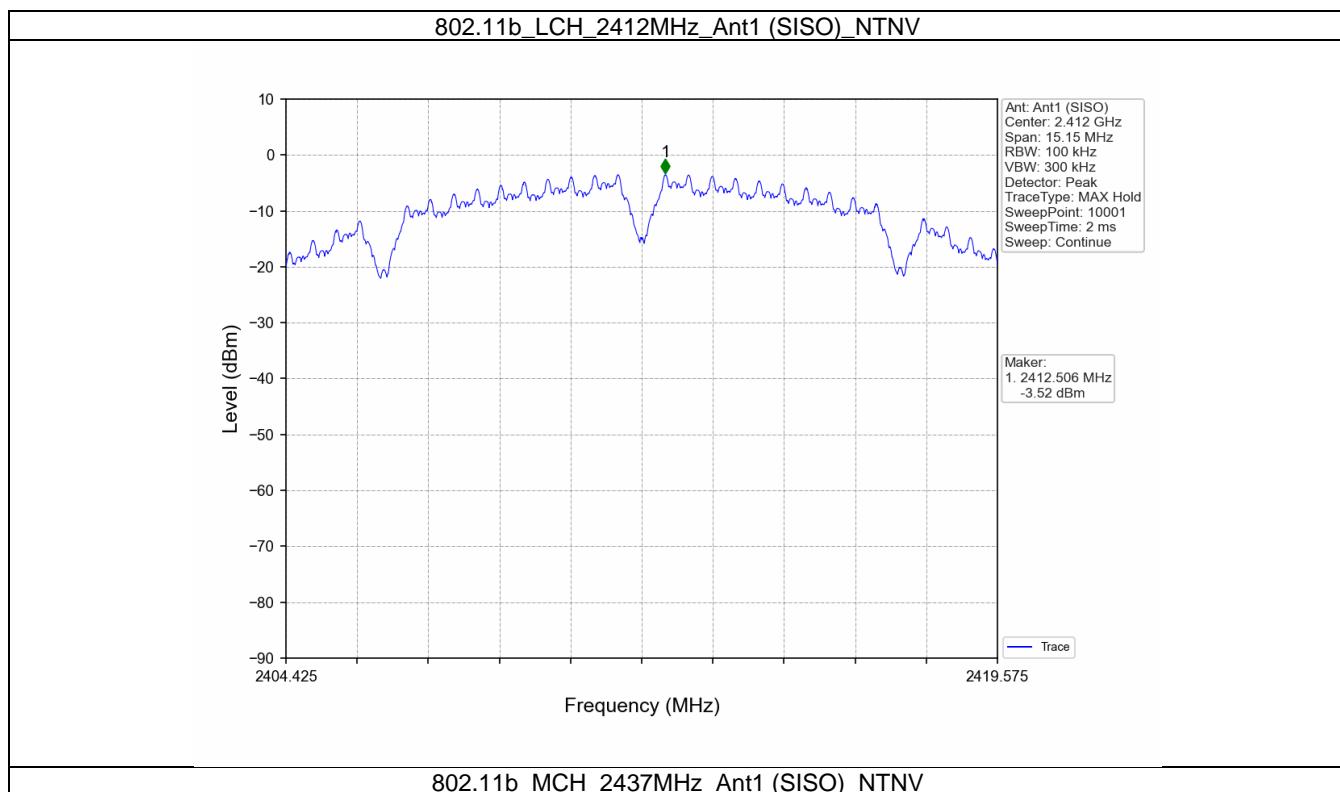
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	-3.52
		2437	1	-3.02
		2462	1	-2.78
802.11g	SISO	2412	1	-12.57
		2437	1	-11.98
		2462	1	-12.28
802.11n (HT20)	SISO	2412	1	-12.78
		2437	1	-12.22
		2462	1	-11.96
802.11n (HT40)	SISO	2422	1	-15.11
		2437	1	-14.88
		2452	1	-14.86

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



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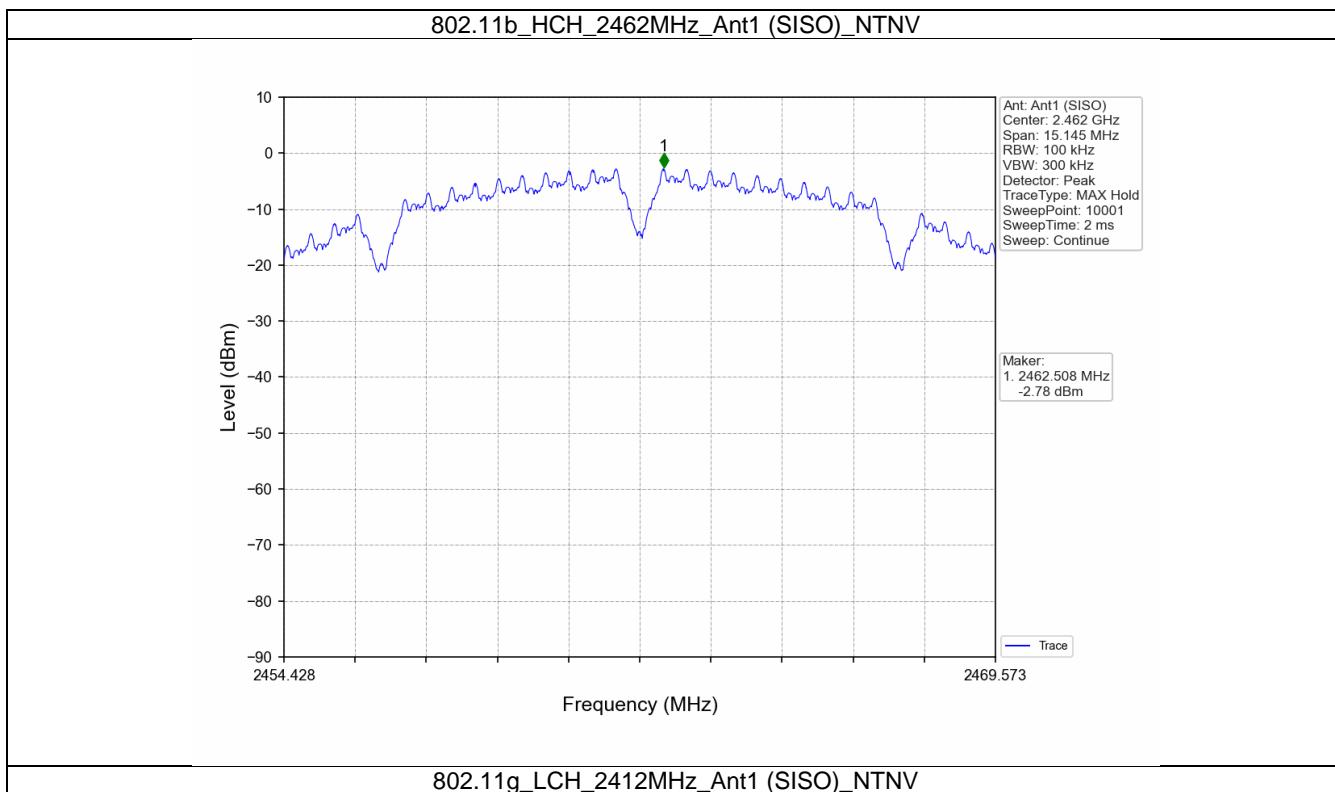
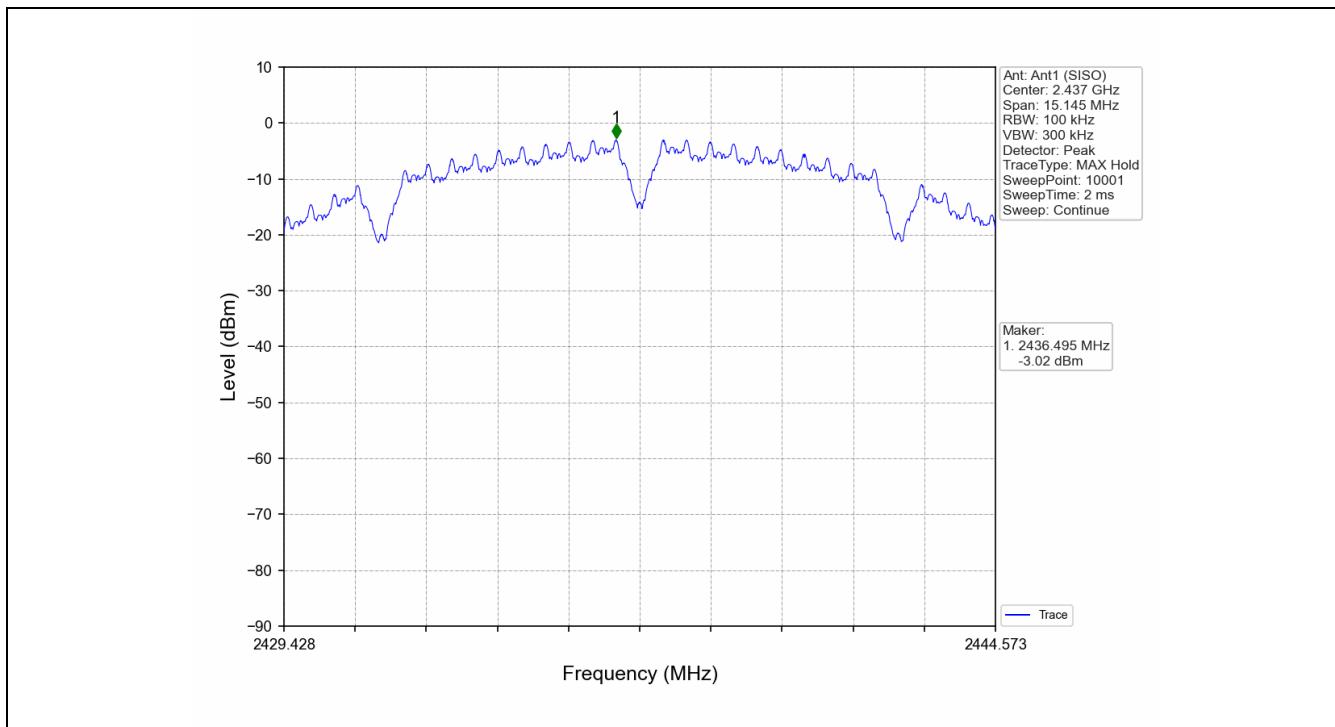


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

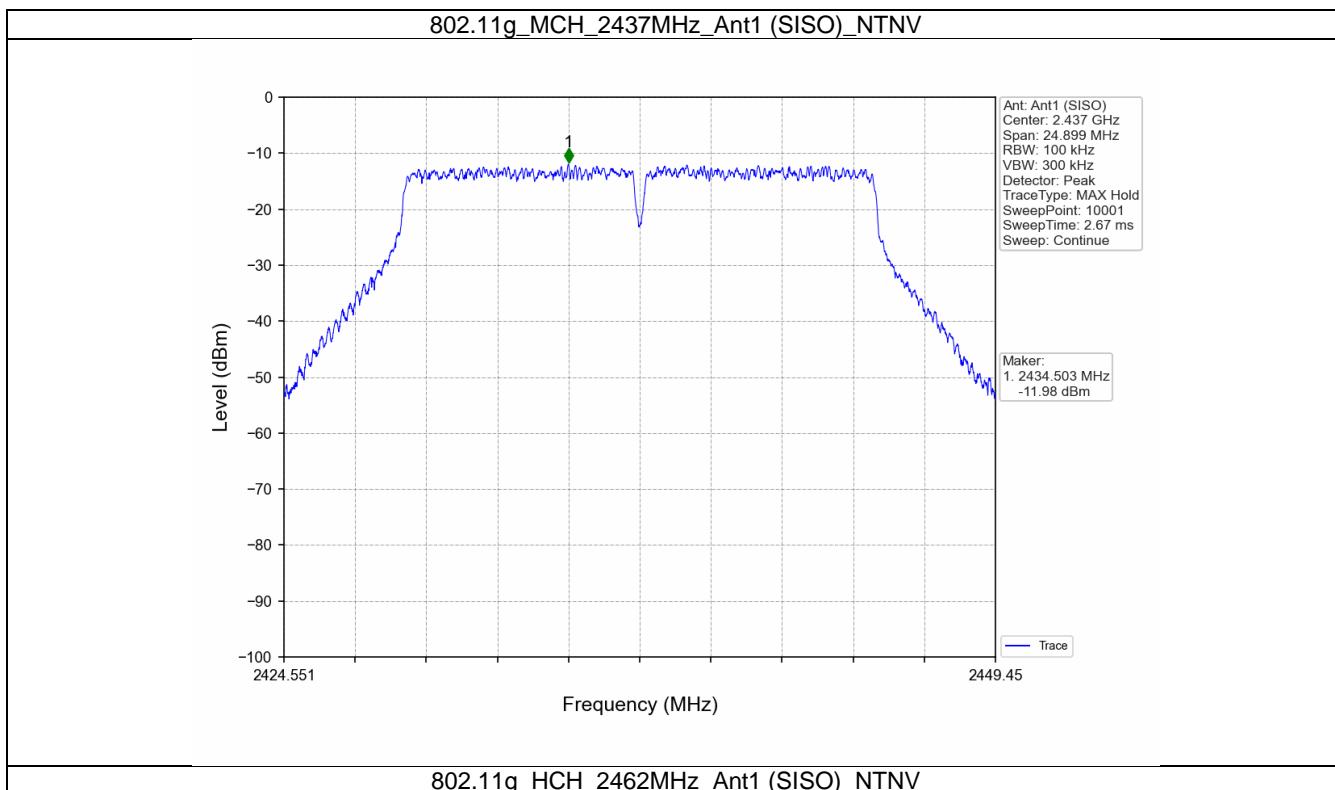
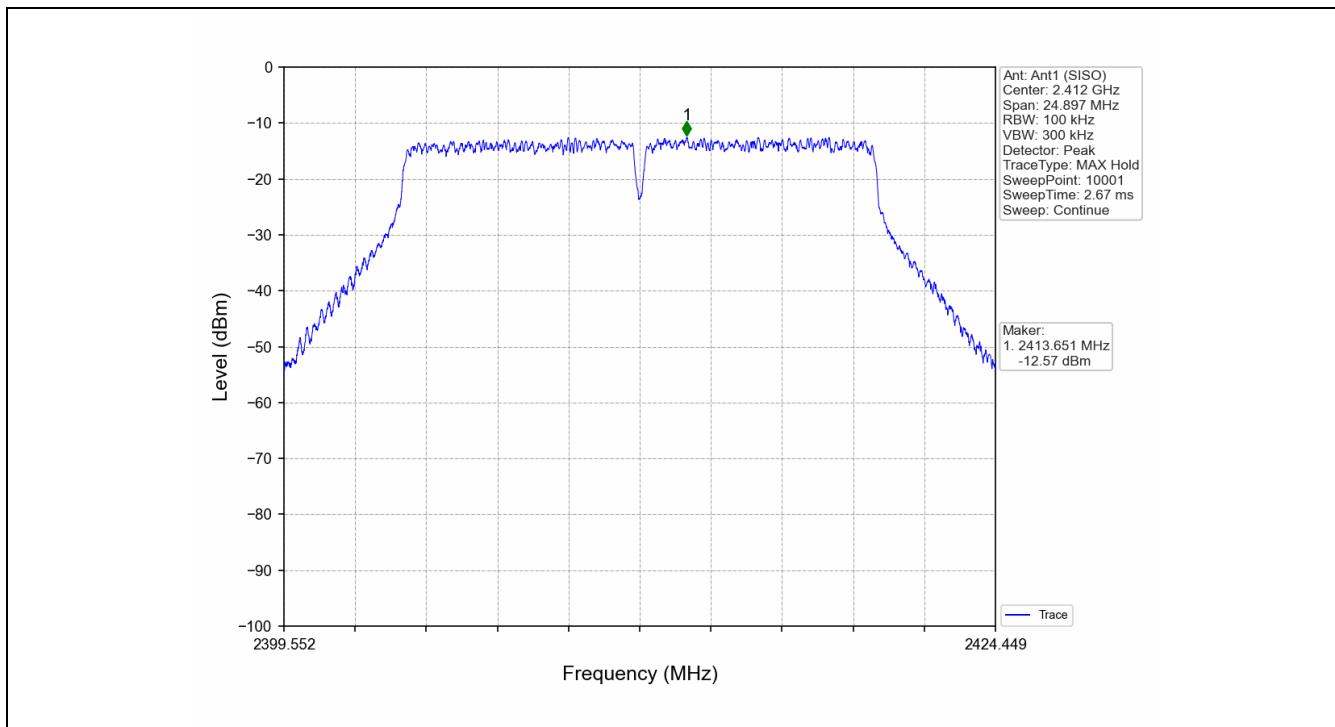


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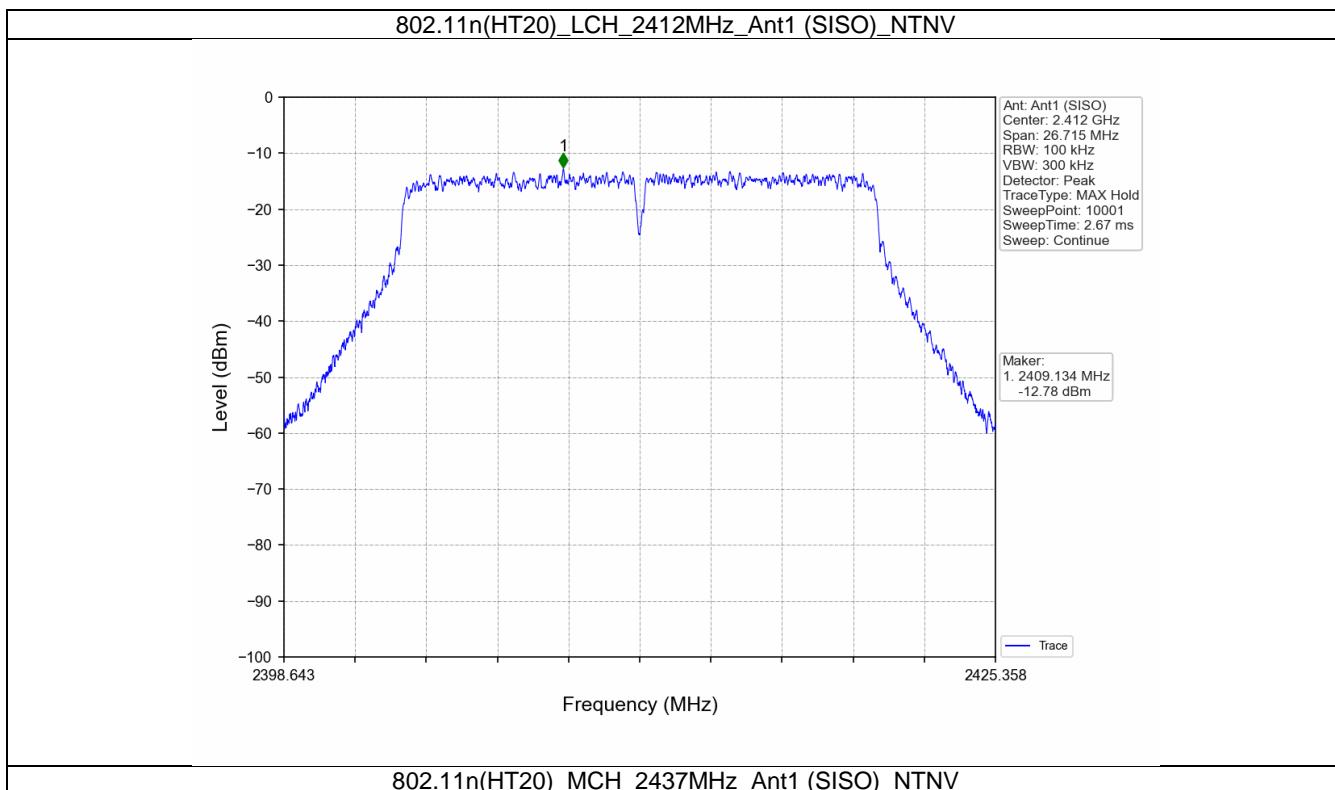
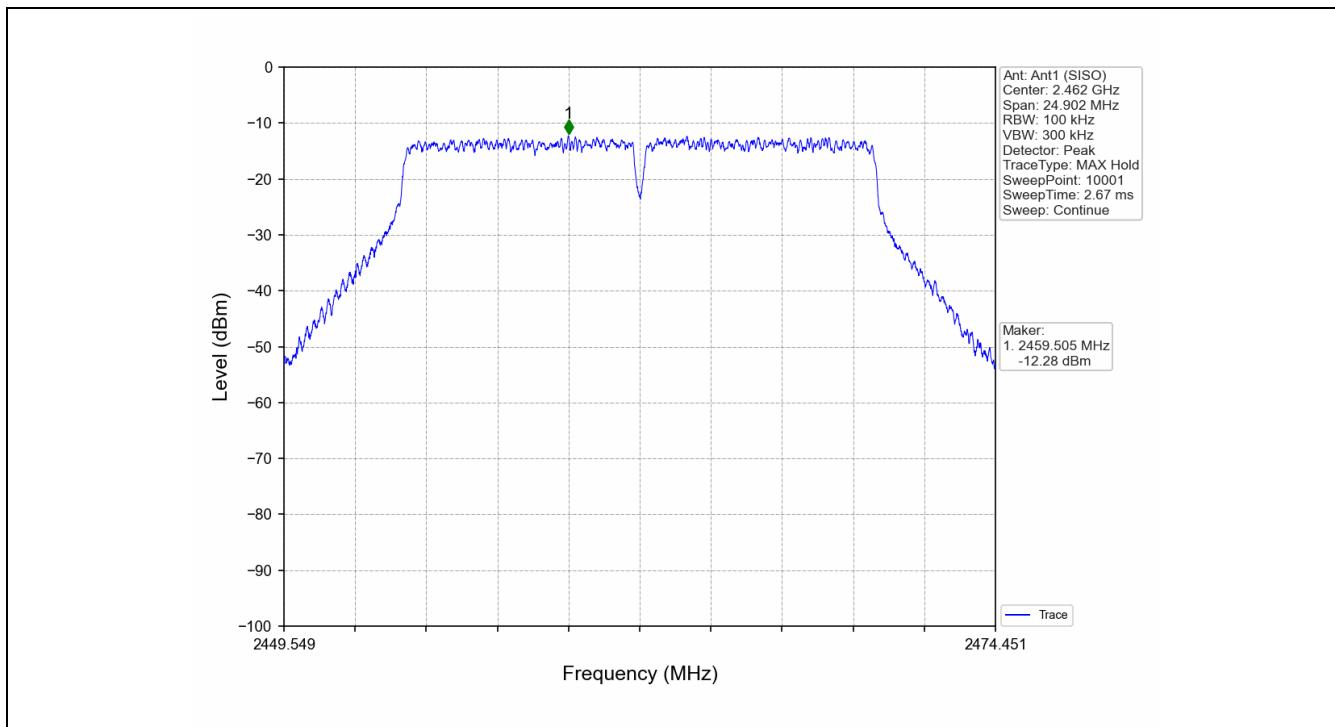
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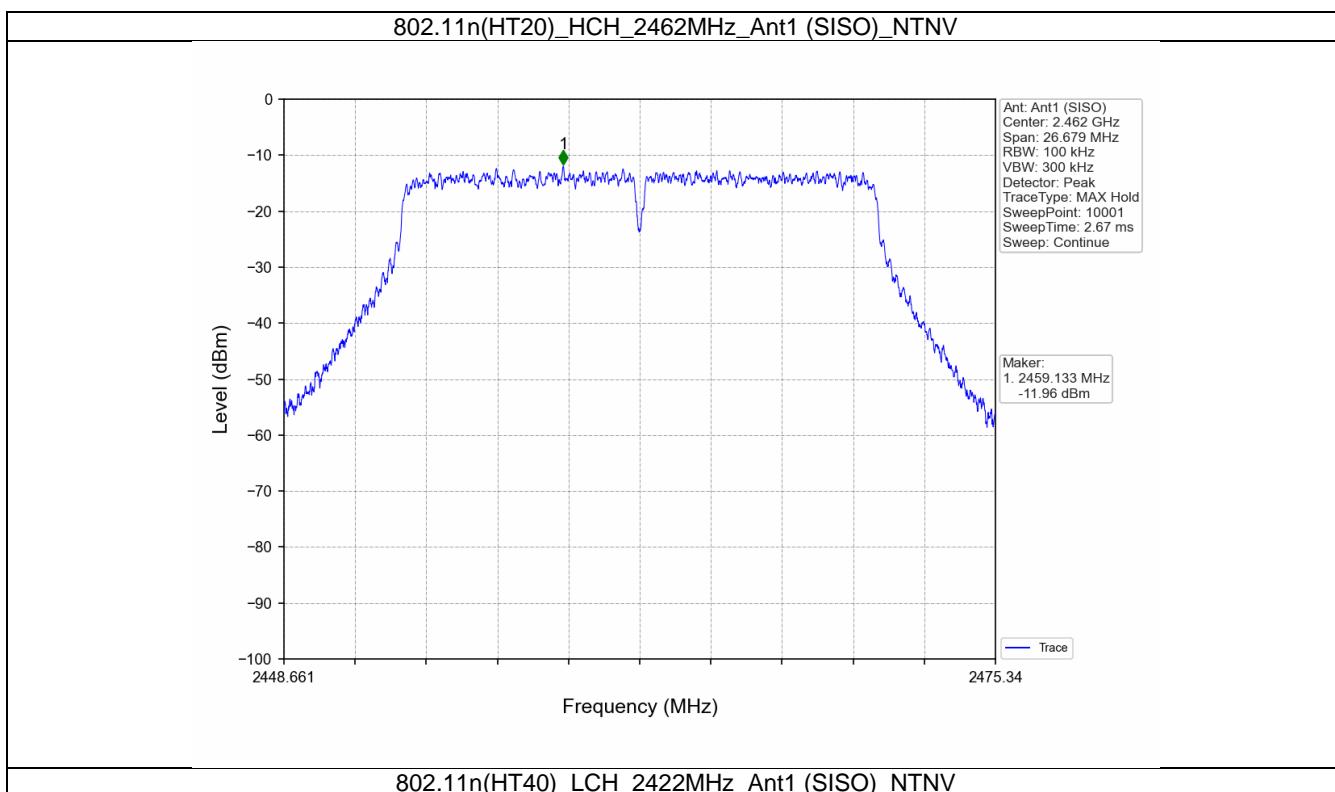
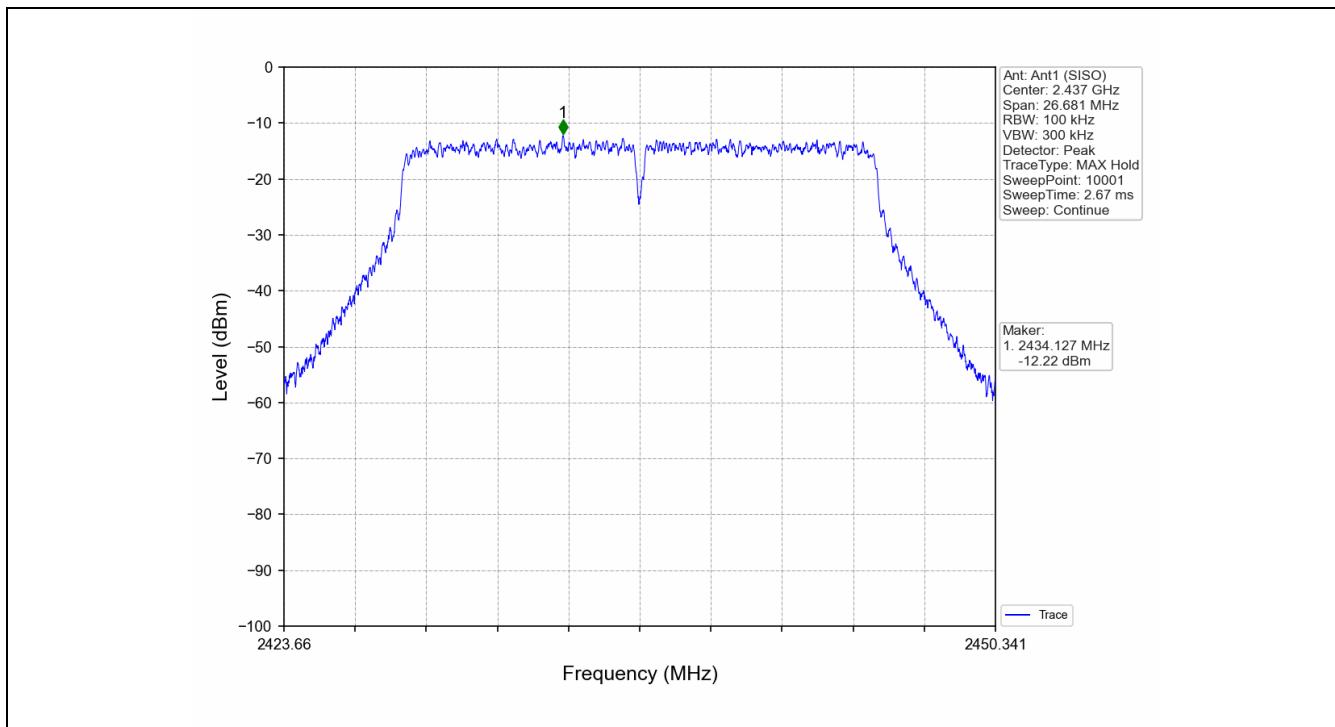
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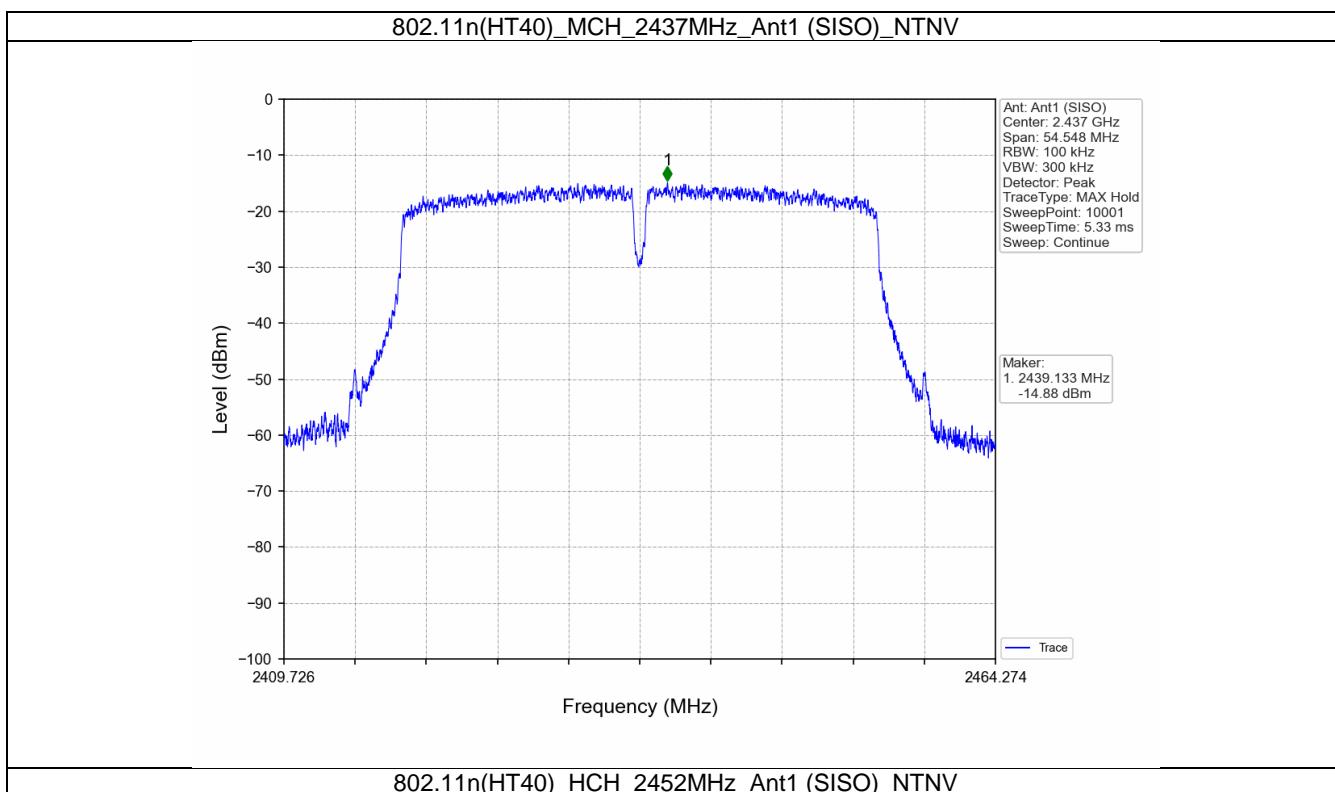
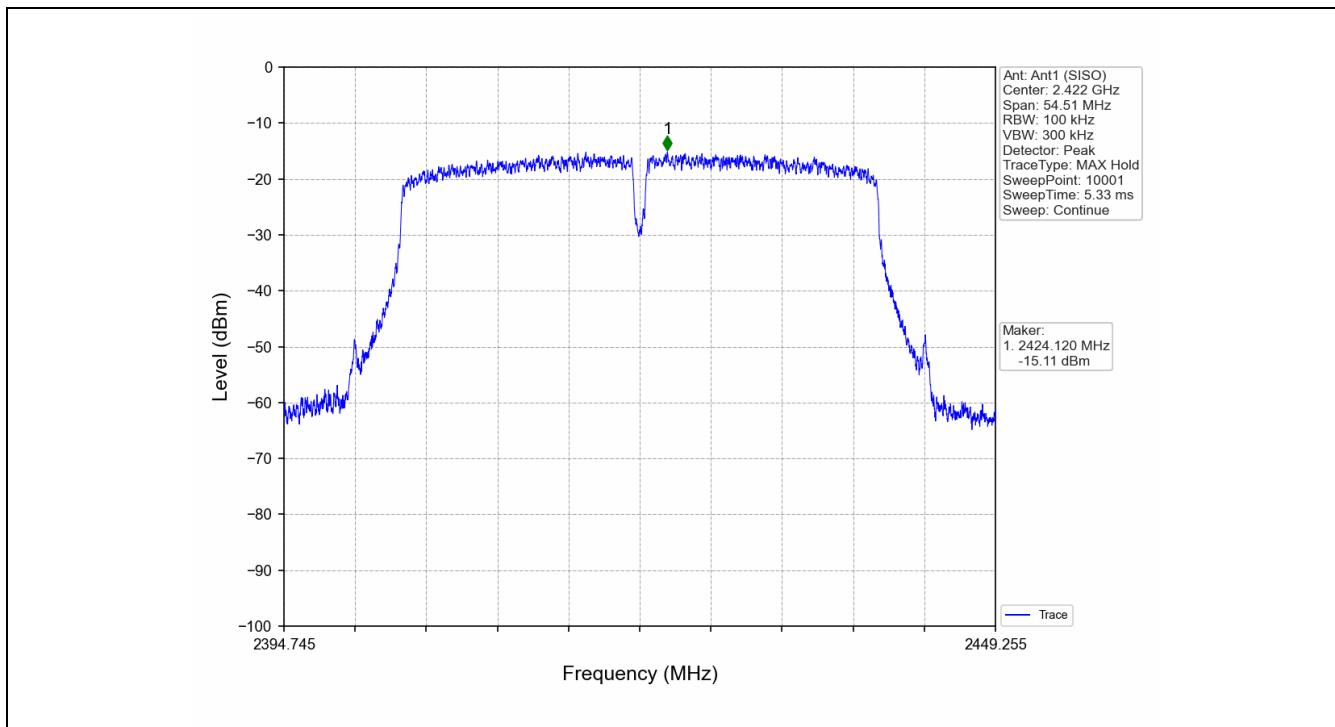
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802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTV



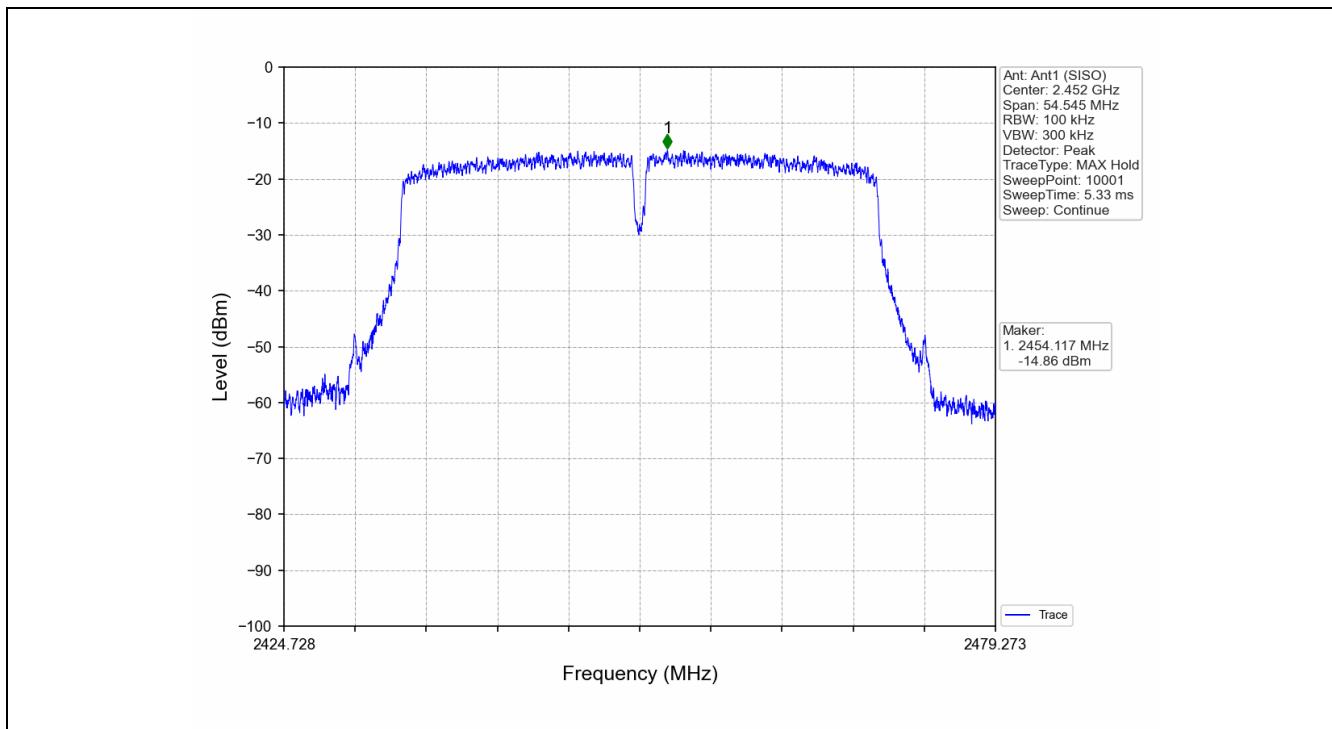
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-2.78	-22.78	Pass
		2437	1	-2.78	-22.78	Pass
		2462	1	-2.78	-22.78	Pass
802.11g	SISO	2412	1	-11.98	-31.98	Pass
		2437	1	-11.98	-31.98	Pass
		2462	1	-11.98	-31.98	Pass
802.11n (HT20)	SISO	2412	1	-11.96	-31.96	Pass
		2437	1	-11.96	-31.96	Pass
		2462	1	-11.96	-31.96	Pass
802.11n (HT40)	SISO	2422	1	-14.86	-34.86	Pass
		2437	1	-14.86	-34.86	Pass
		2452	1	-14.86	-34.86	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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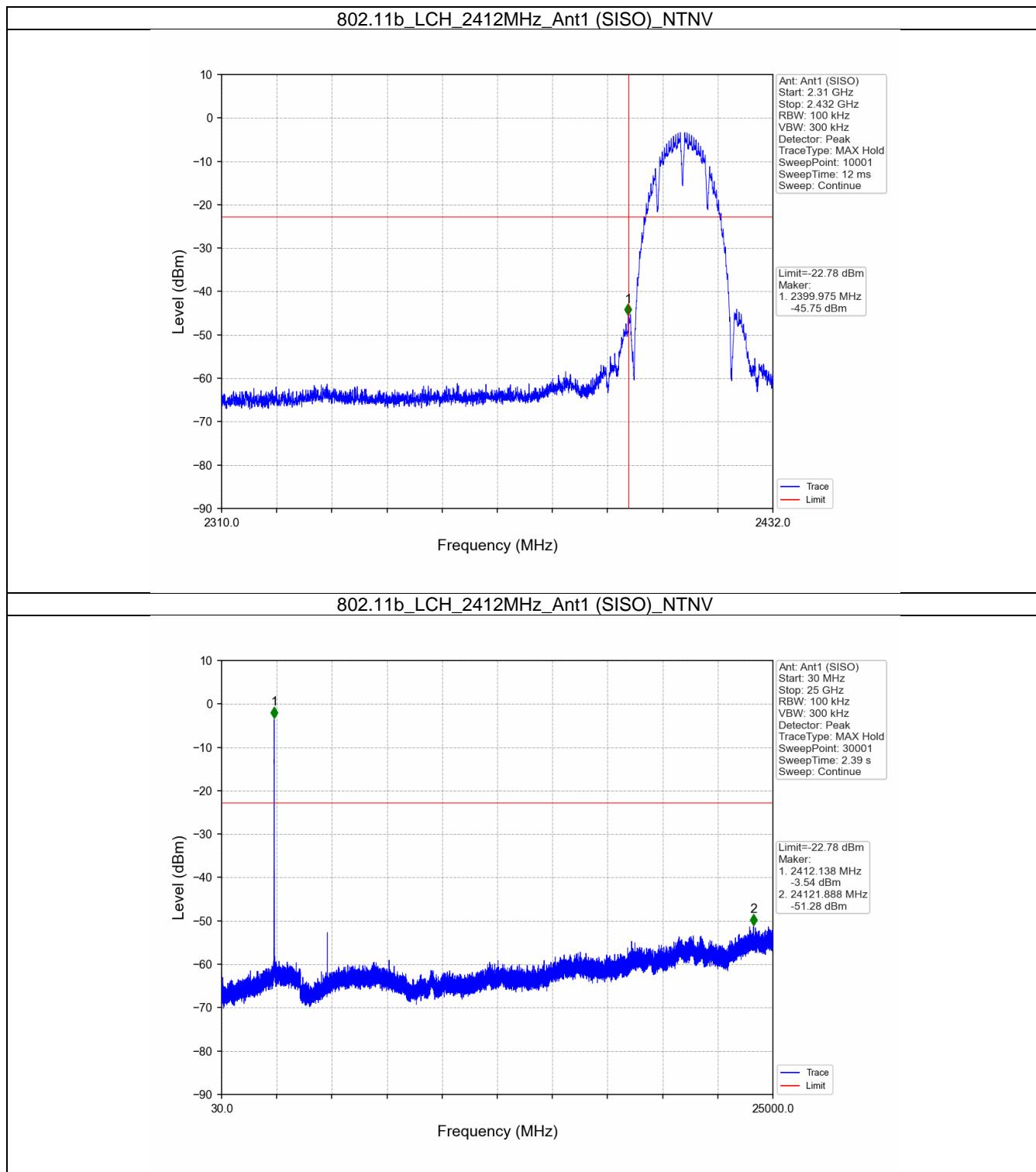
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5.2.2 Test Graph



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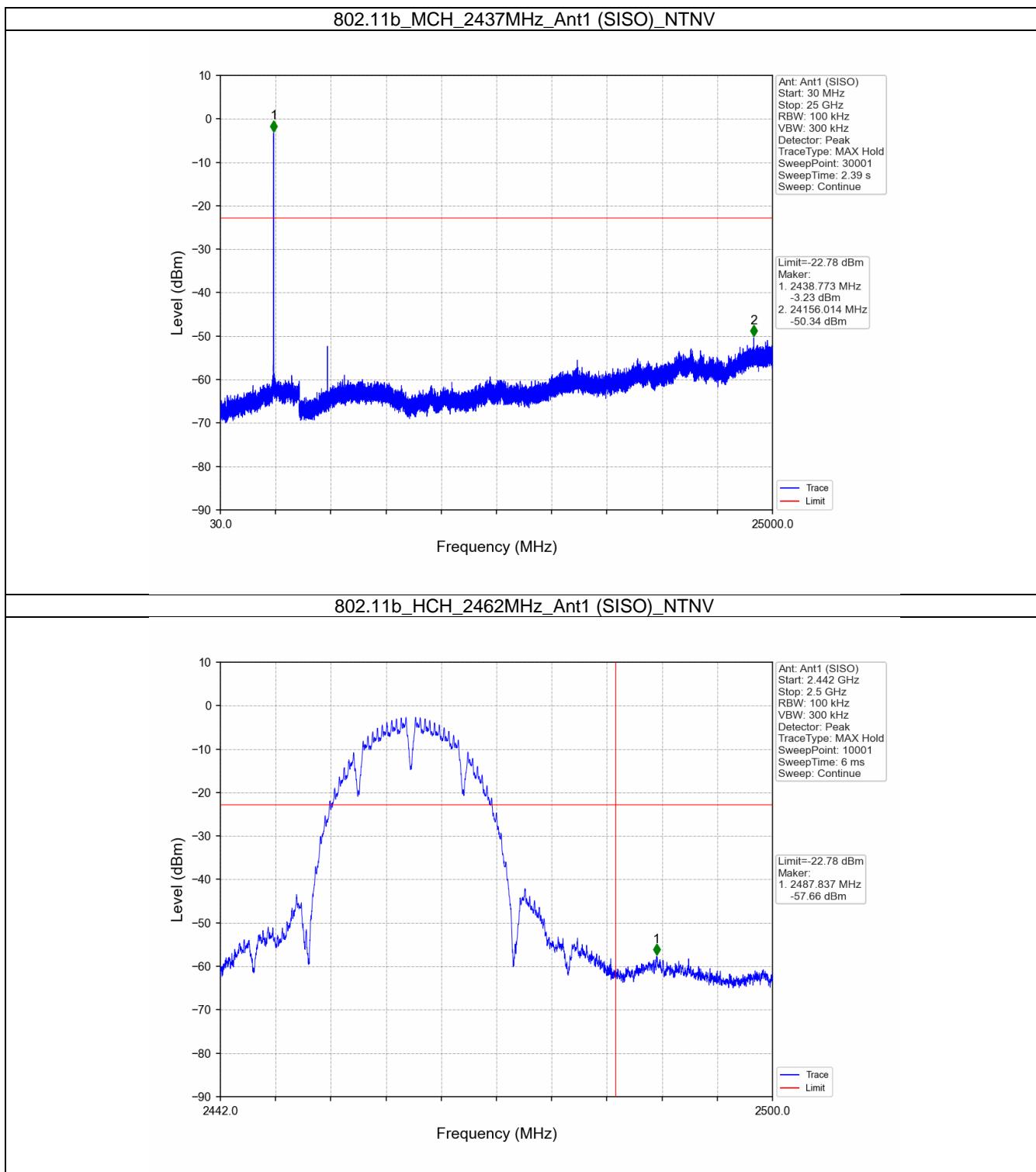
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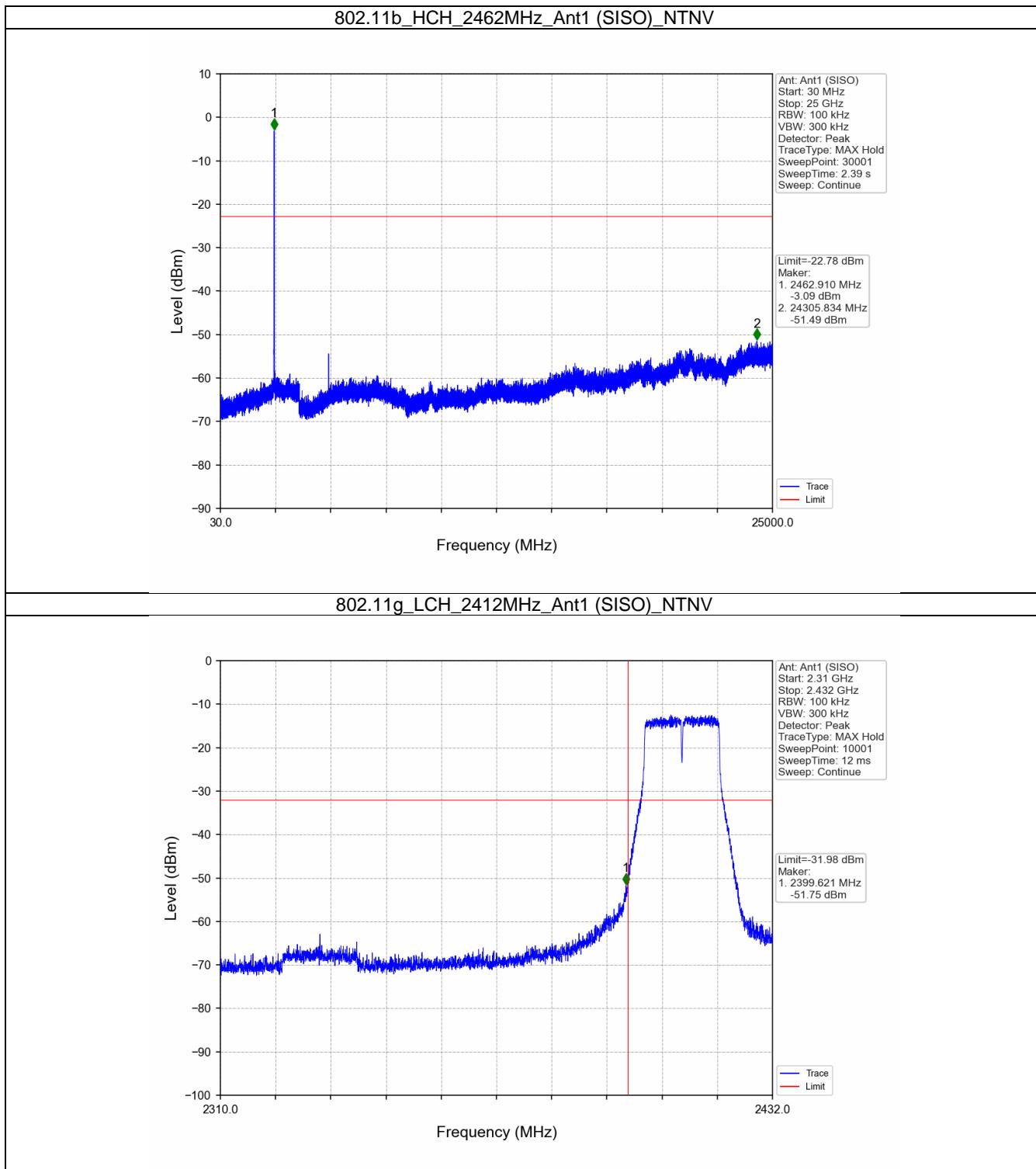
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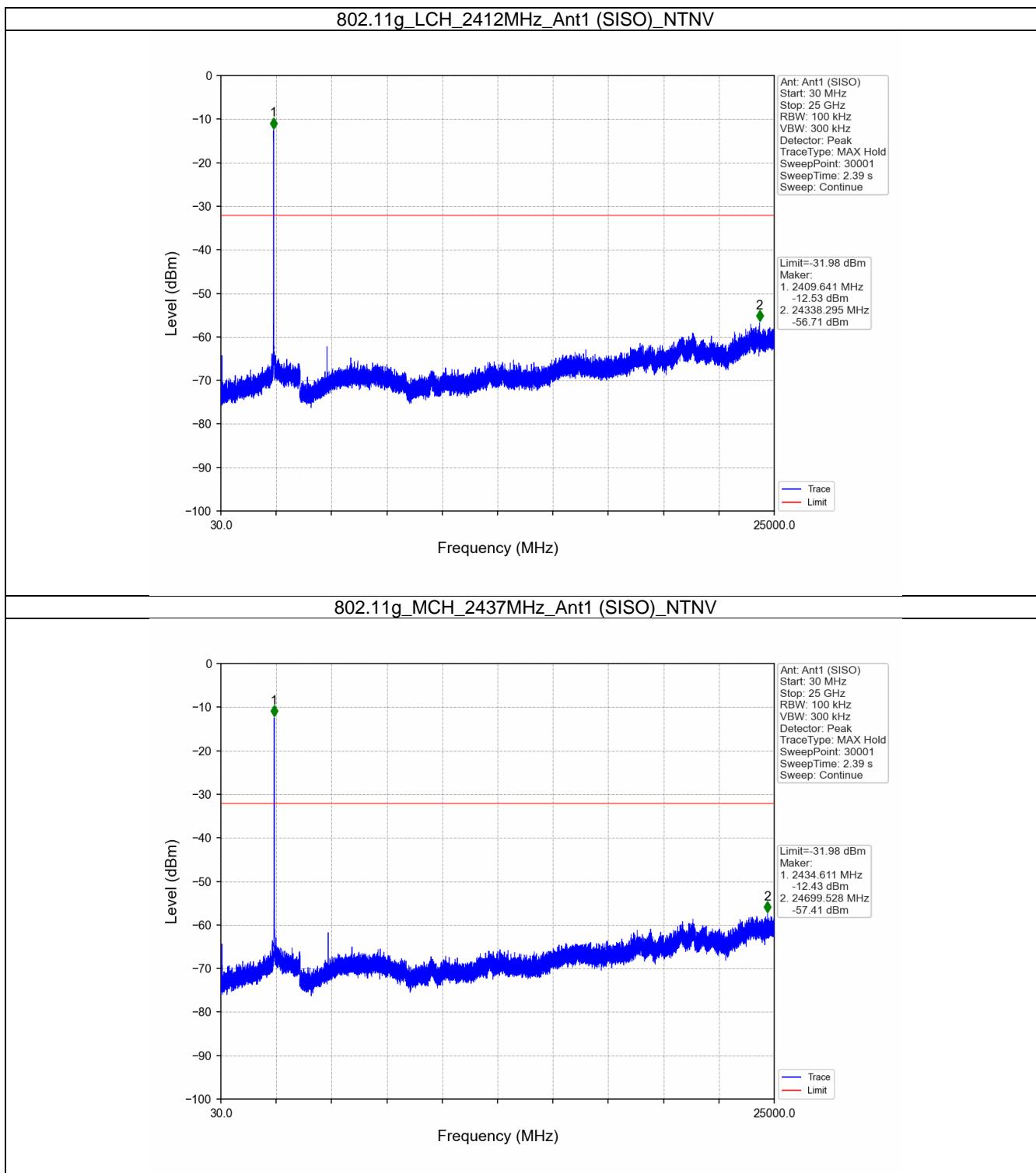
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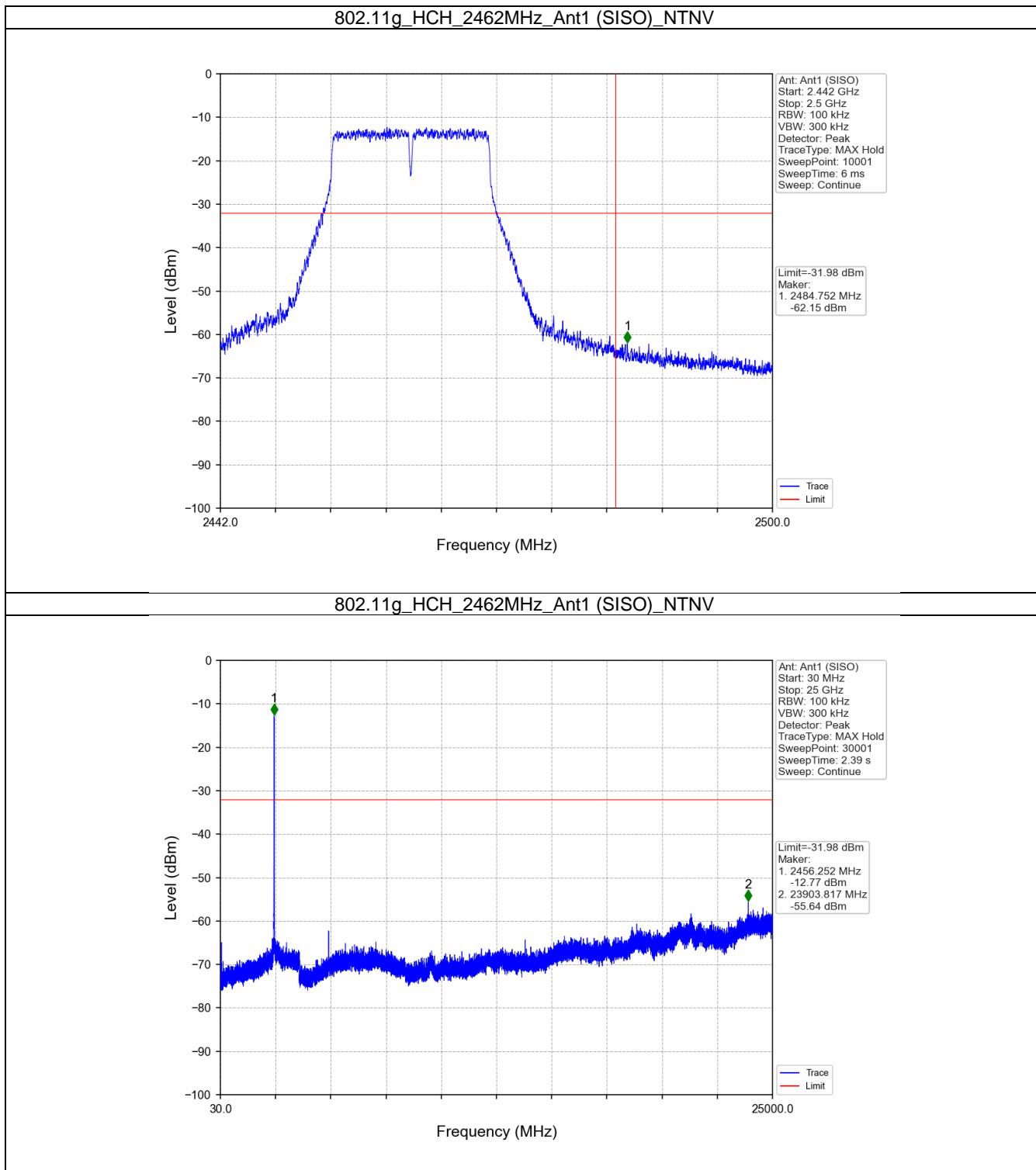
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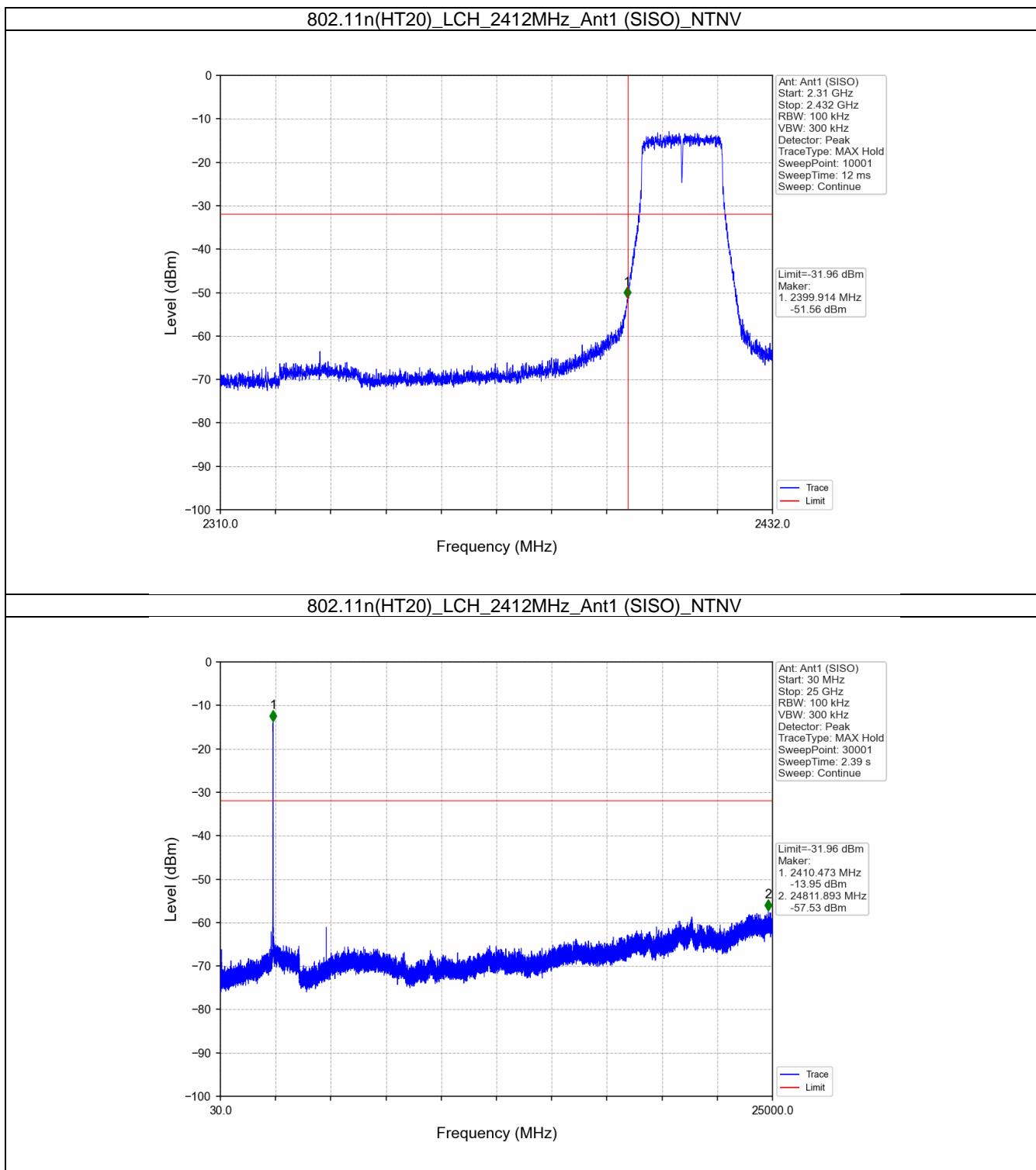
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Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

No.10, Weiyi Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

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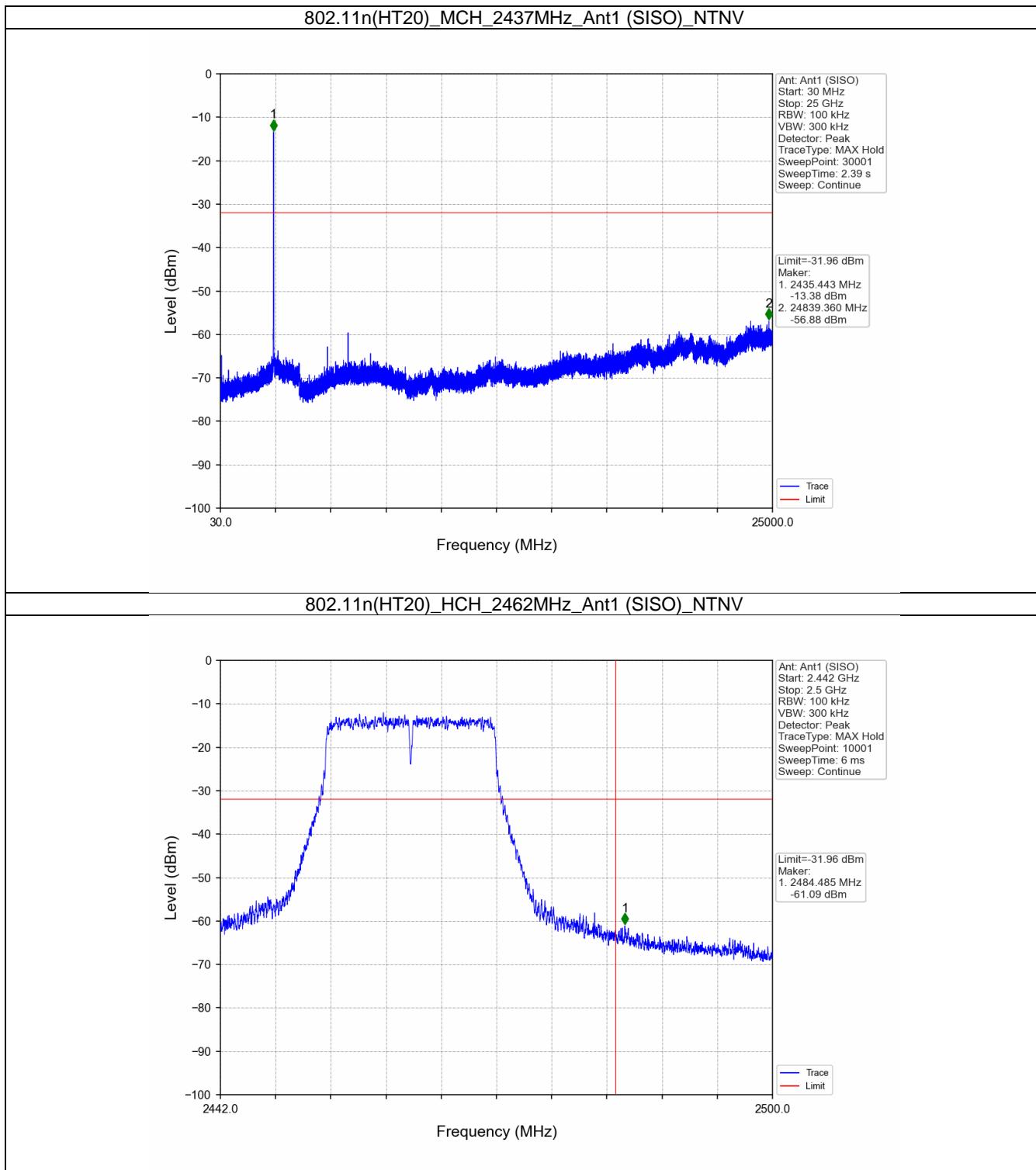
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EMC Laboratory

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

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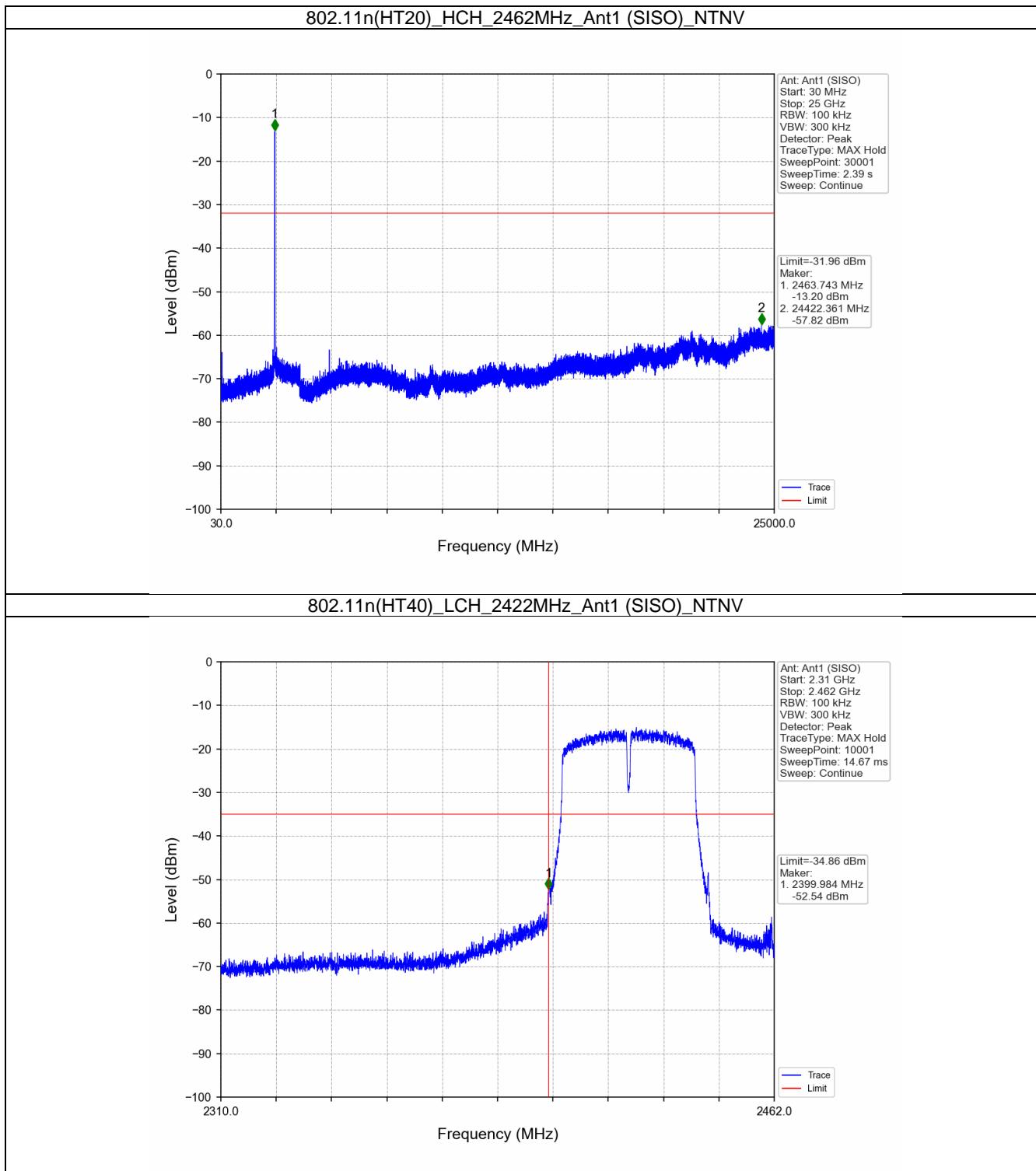
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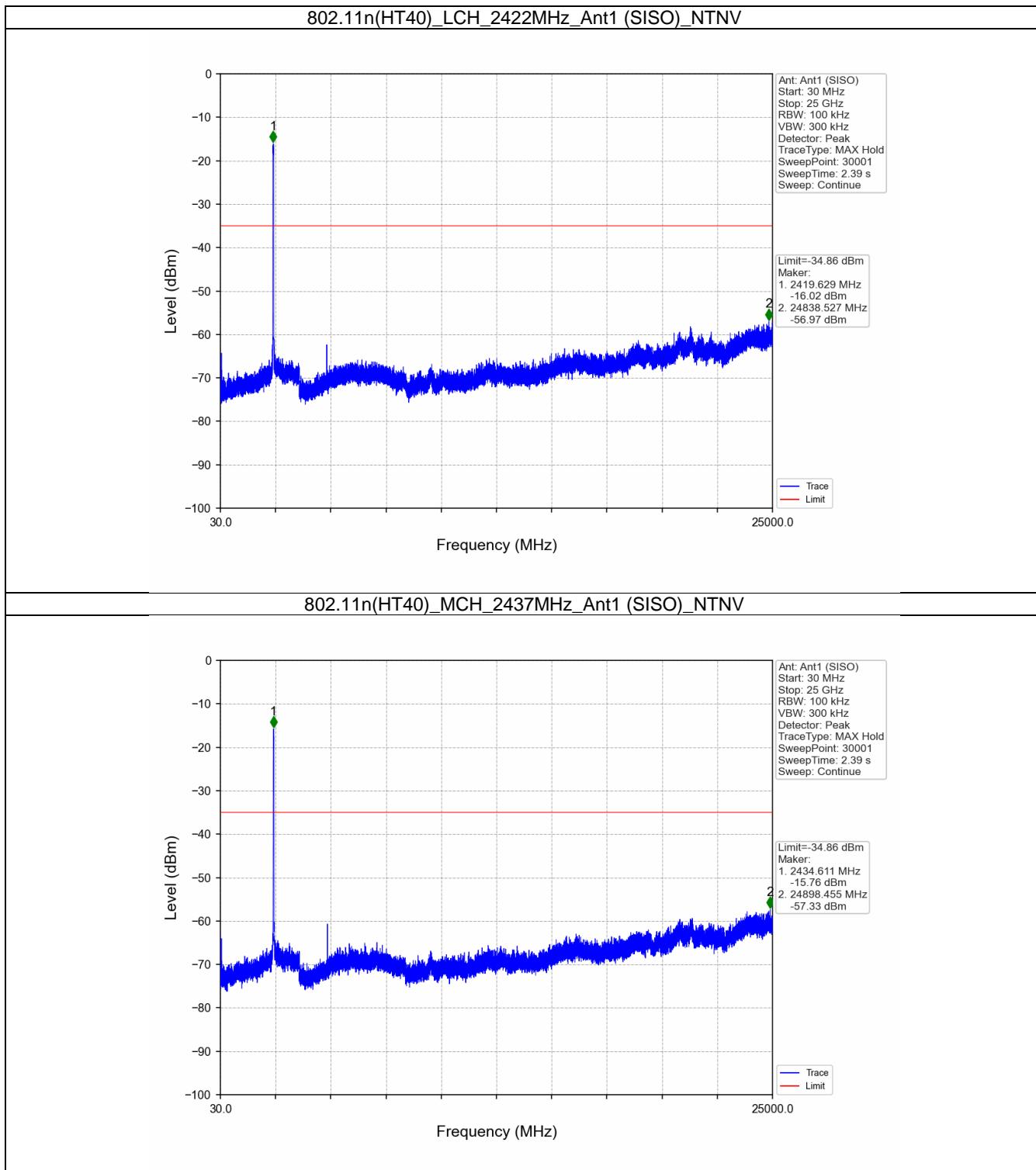
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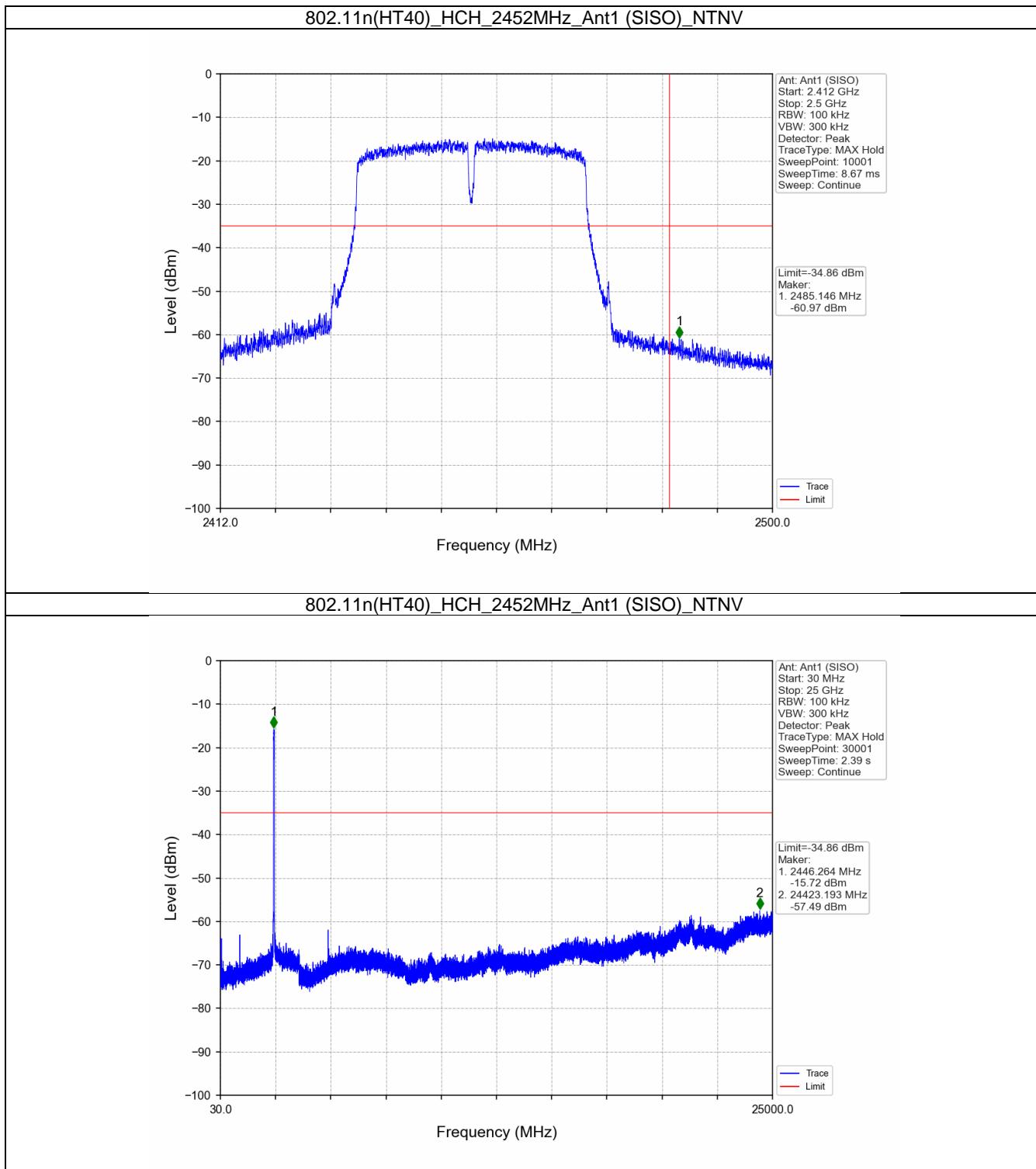
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