

Appendix A for KSCR220500077501

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	8.606	8.706	98.85	0.05	0.04
		2437	8.607	8.707	98.85	0.05	0.04
		2462	8.607	8.707	98.85	0.05	0.04
802.11g	SISO	2412	1.428	1.534	93.09	0.31	0.06
		2437	1.429	1.535	93.09	0.31	0.03
		2462	1.429	1.535	93.09	0.31	0.03
802.11n (HT20)	SISO	2412	1.337	1.443	92.65	0.33	0.03
		2437	1.337	1.442	92.72	0.33	0.03
		2462	1.336	1.442	92.65	0.33	0.03



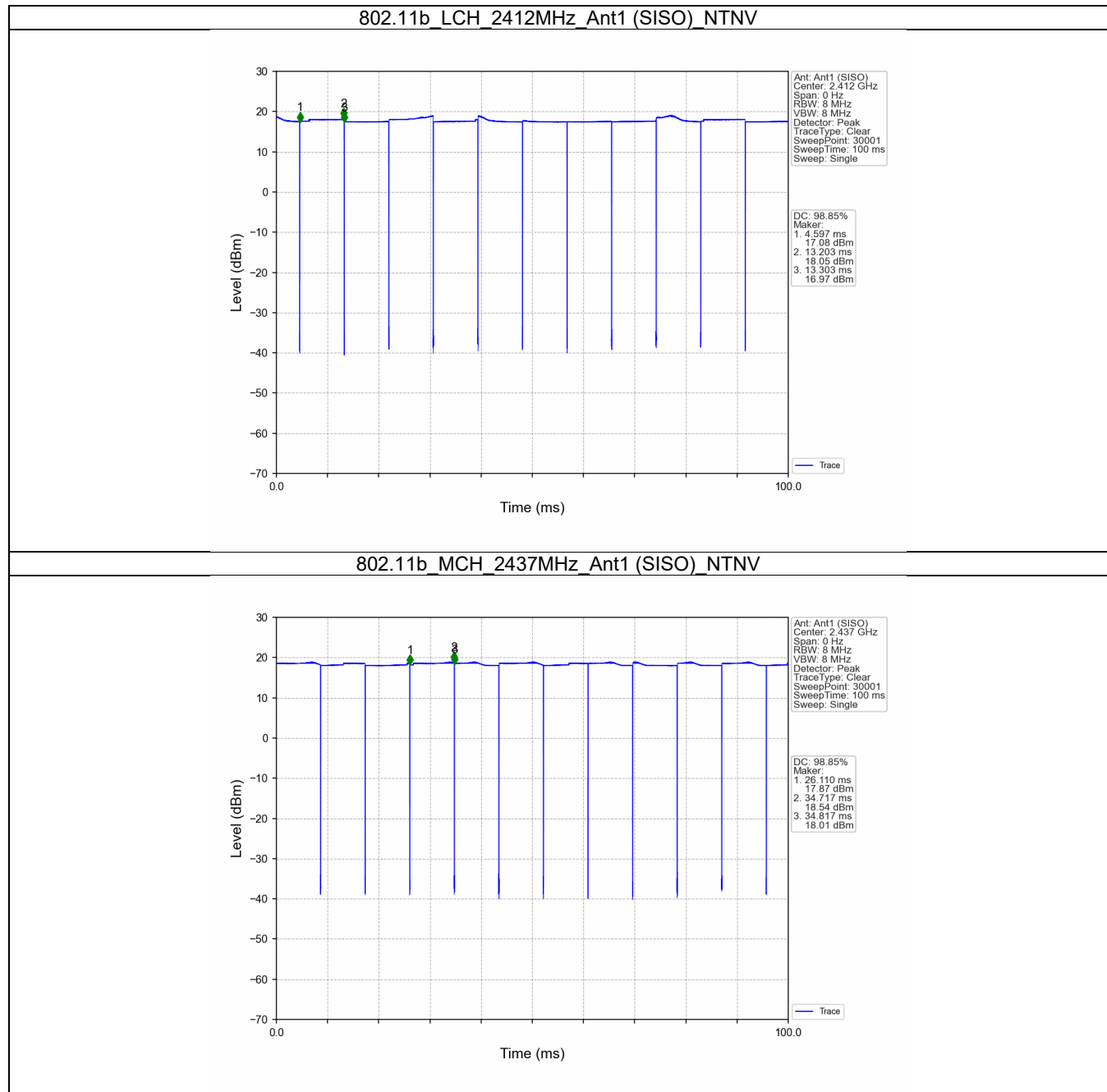
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1.1.2 Test Graph



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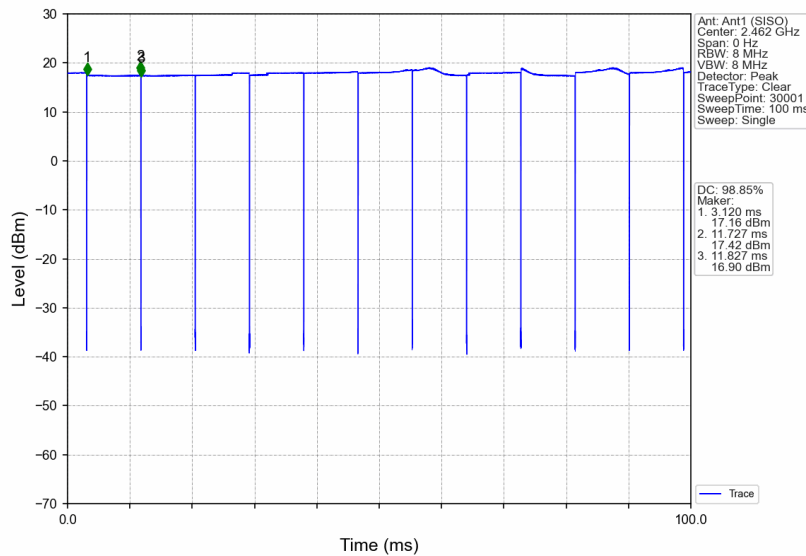
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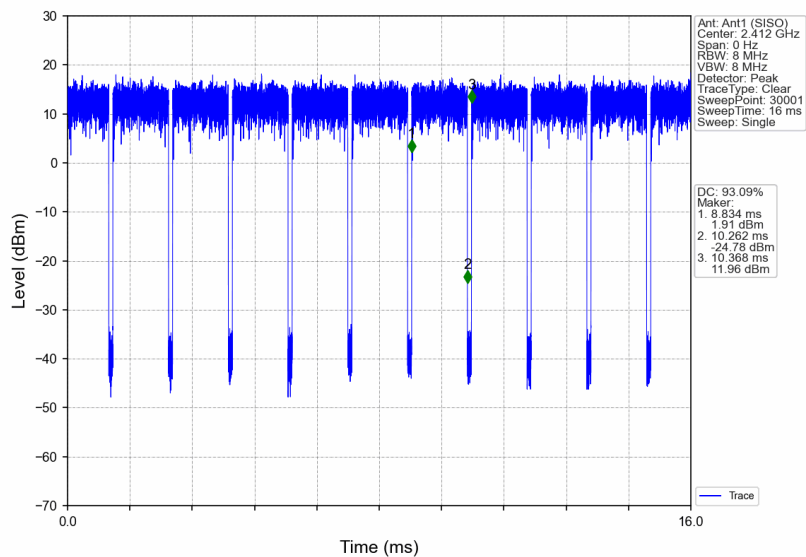
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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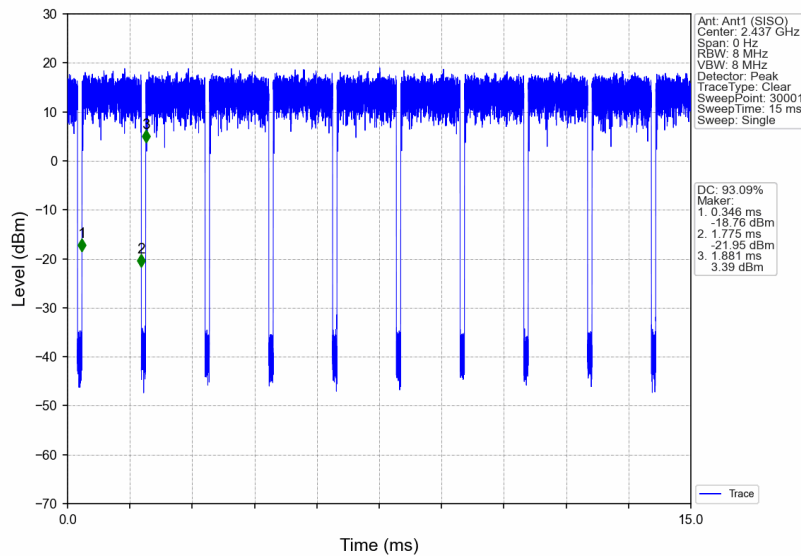
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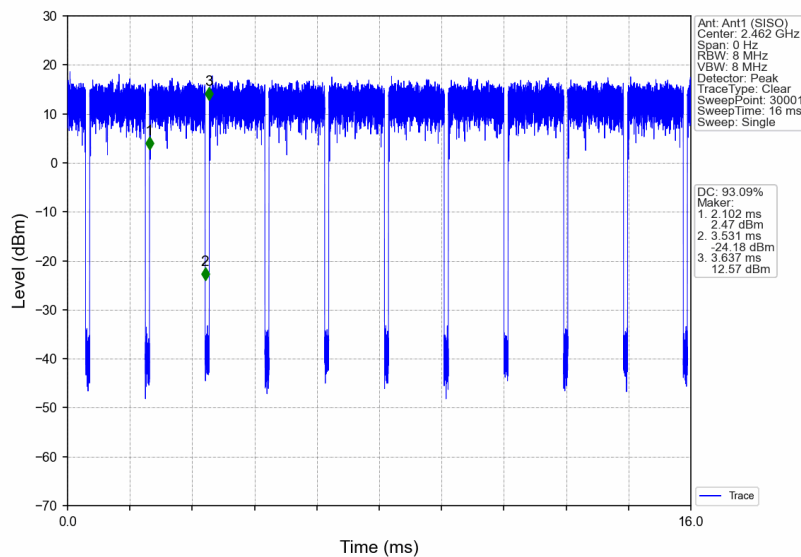
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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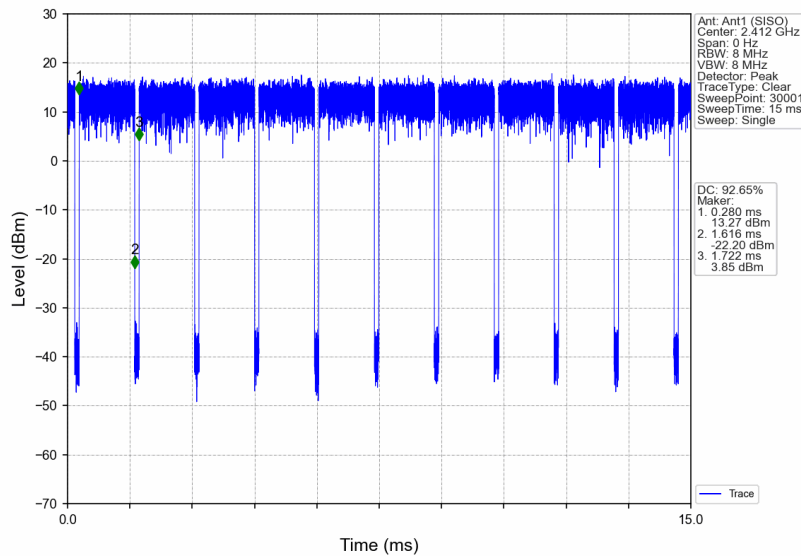
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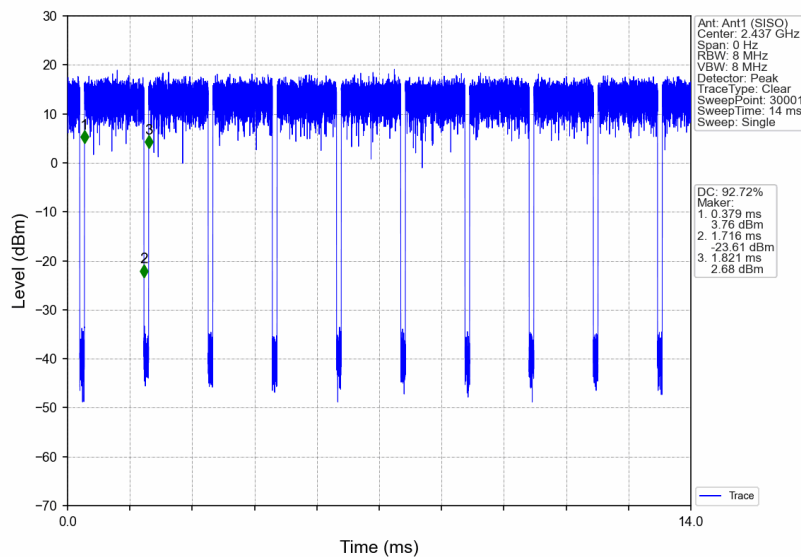
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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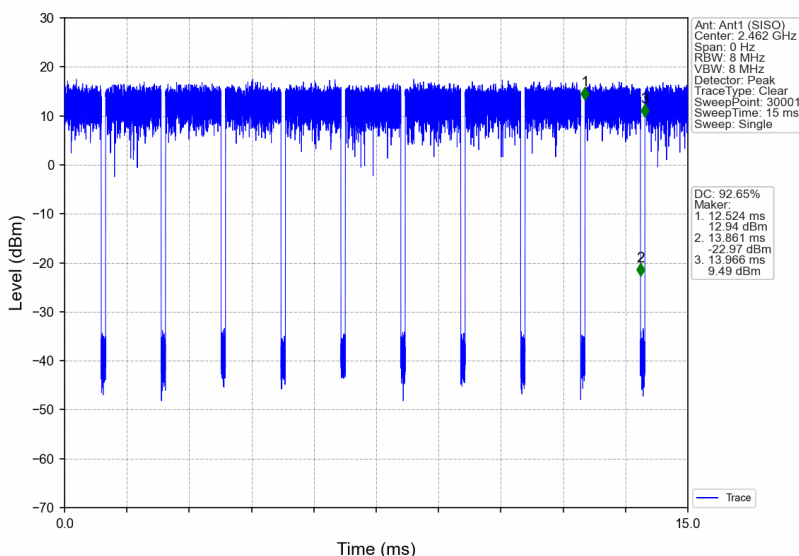
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2. Bandwidth

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	12.604	Pass
		2437	1	12.177	Pass
		2462	1	13.535	Pass
802.11g	SISO	2412	1	17.929	Pass
		2437	1	17.250	Pass
		2462	1	18.273	Pass
802.11n (HT20)	SISO	2412	1	19.073	Pass
		2437	1	18.277	Pass
		2462	1	19.452	Pass



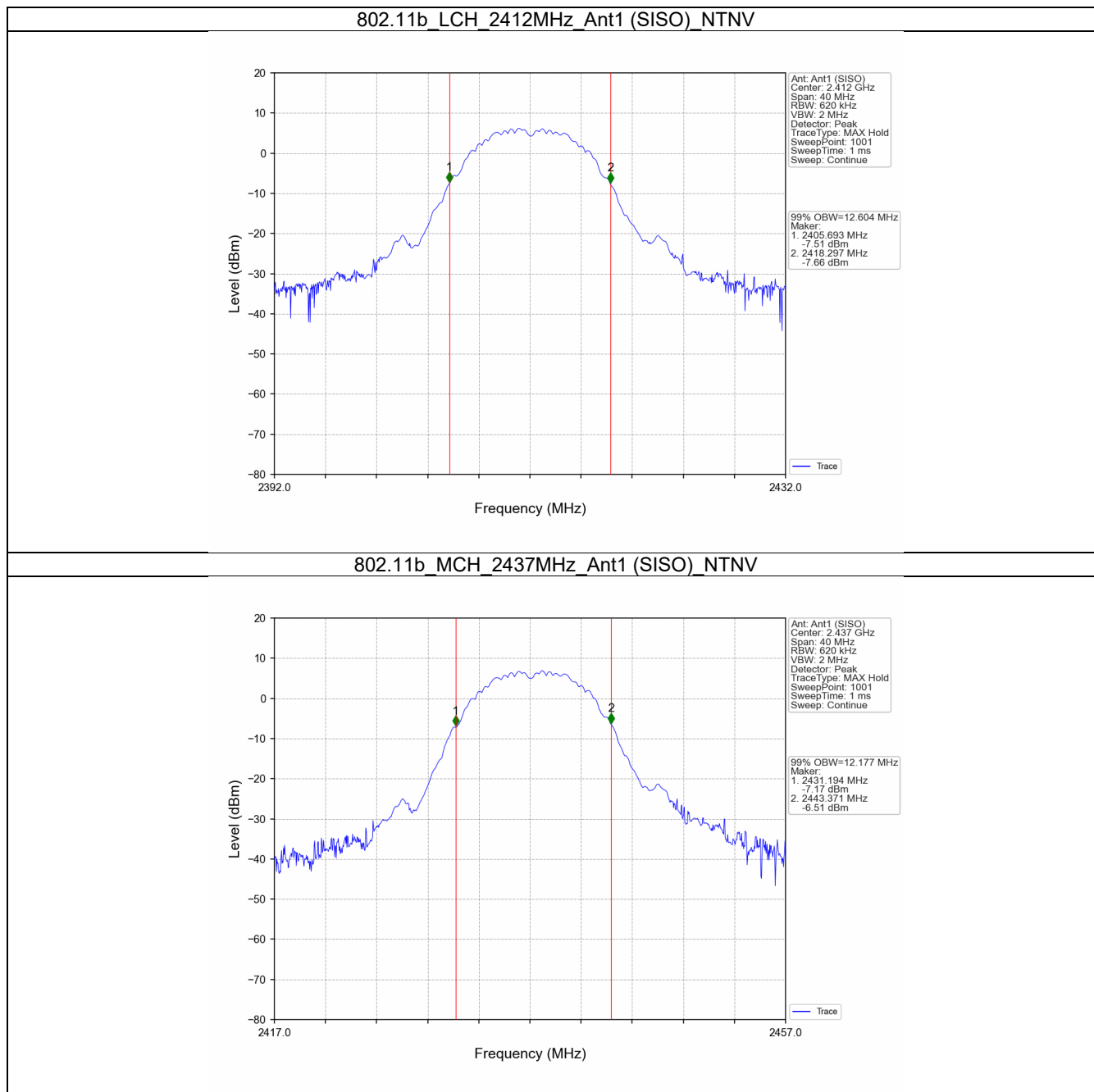
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2.1.2 Test Graph



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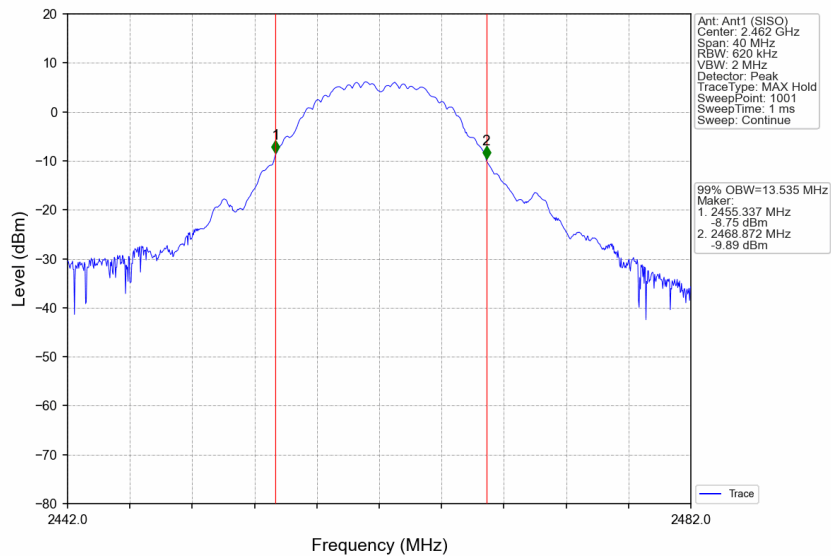
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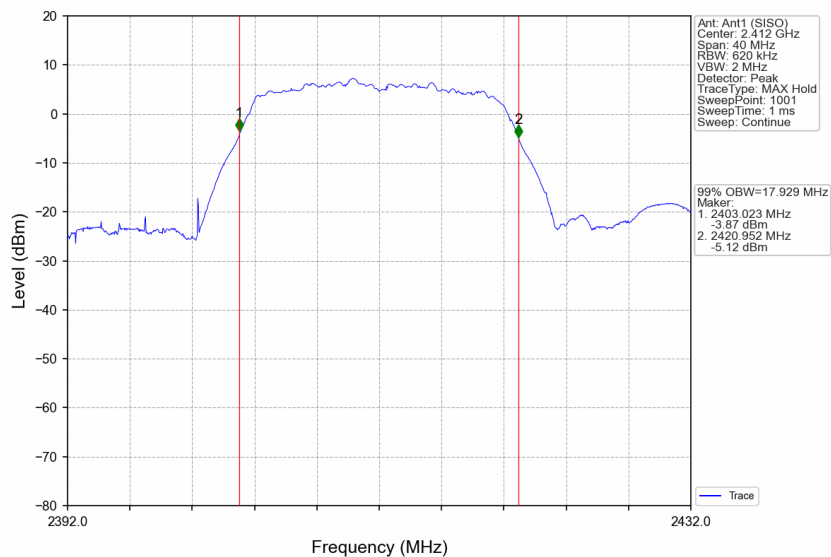
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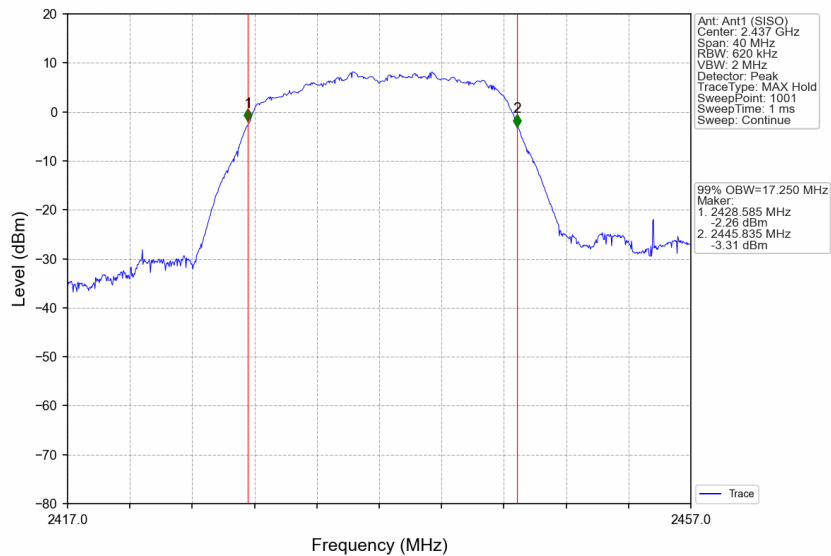
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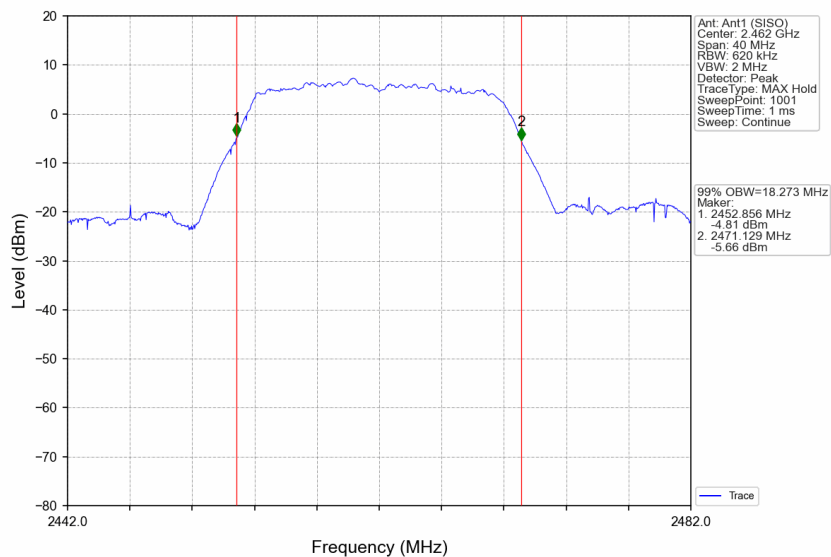
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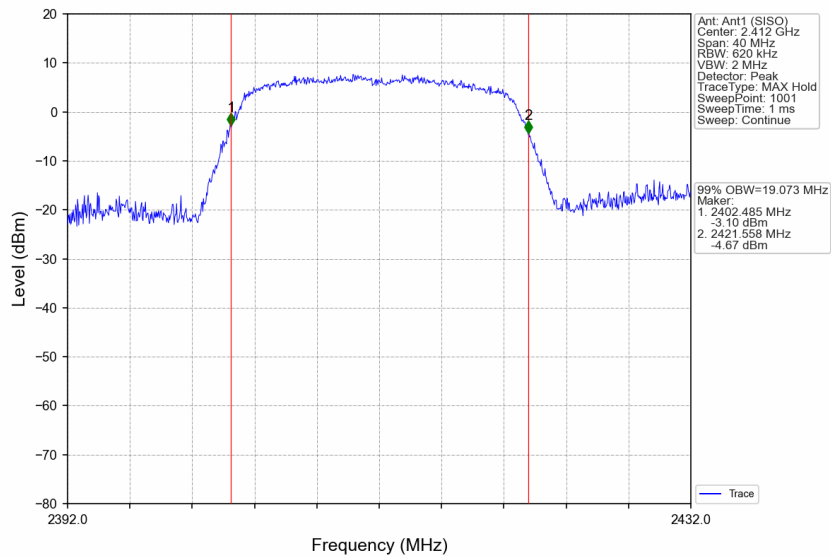
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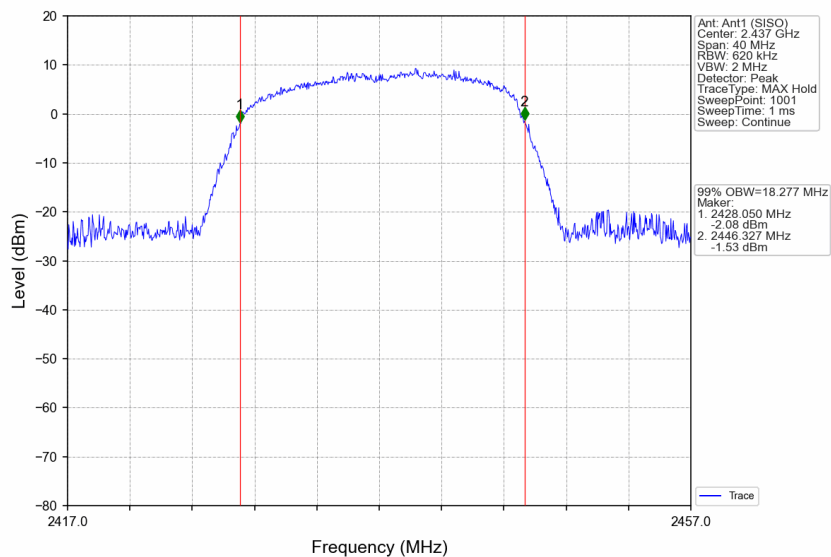
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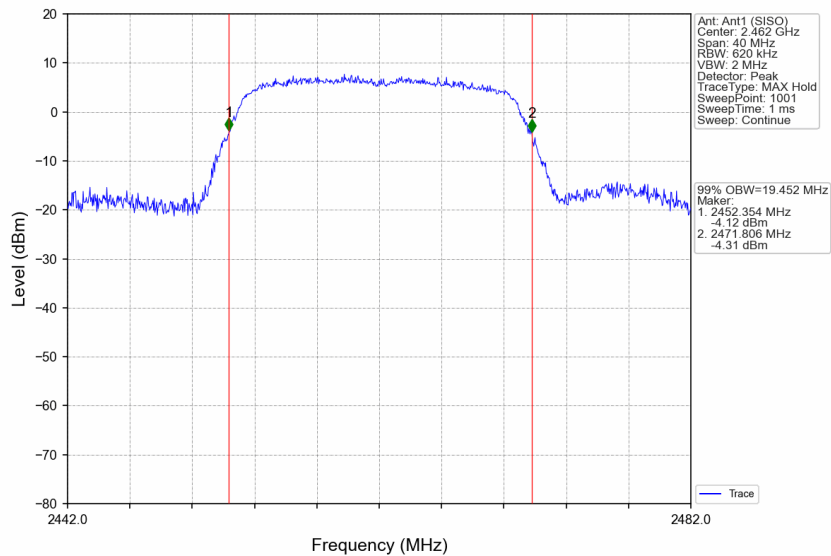
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.095	≥ 0.5	Pass
		2437	1	8.615	≥ 0.5	Pass
		2462	1	9.113	≥ 0.5	Pass
802.11g	SISO	2412	1	15.476	≥ 0.5	Pass
		2437	1	15.121	≥ 0.5	Pass
		2462	1	16.337	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.296	≥ 0.5	Pass
		2437	1	15.100	≥ 0.5	Pass
		2462	1	16.436	≥ 0.5	Pass

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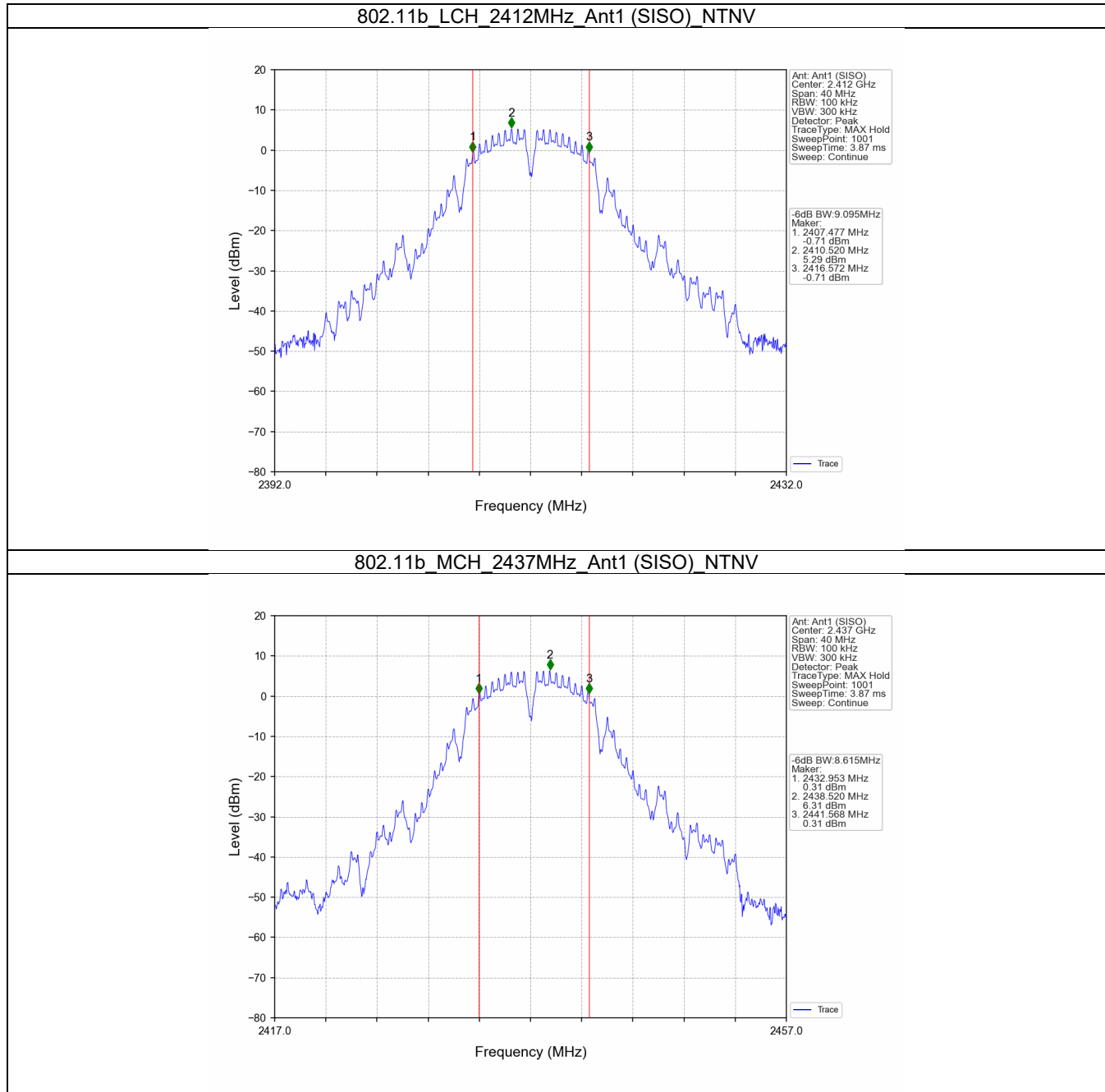
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2.2.2 Test Graph



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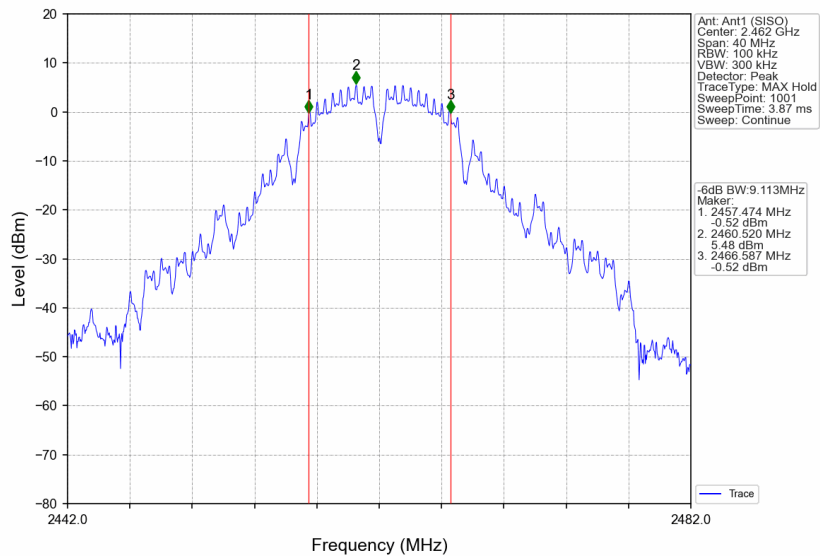
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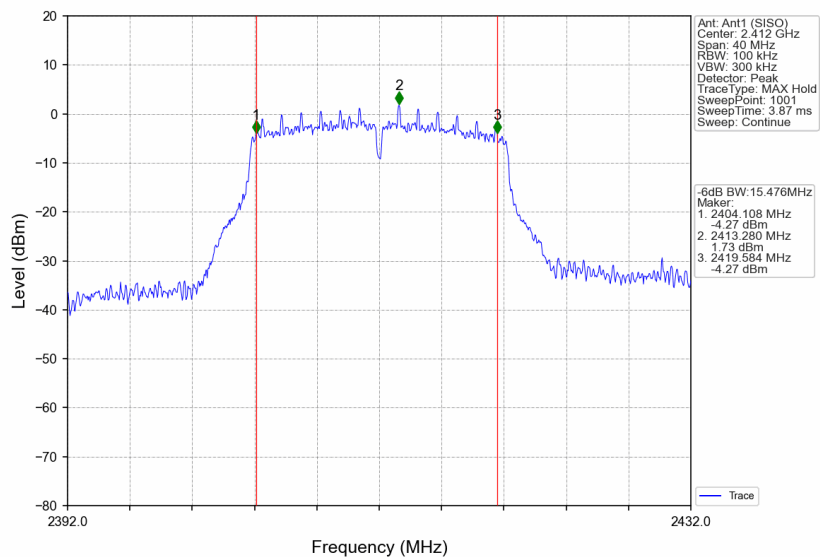
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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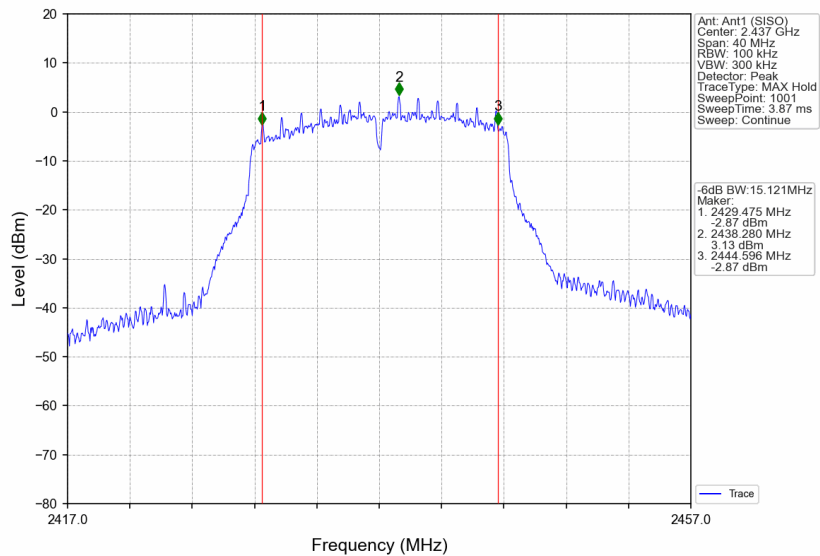
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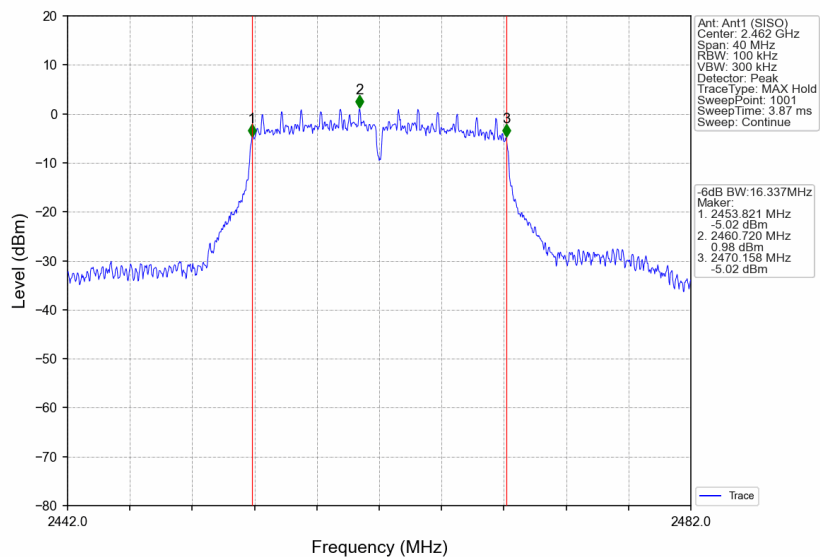
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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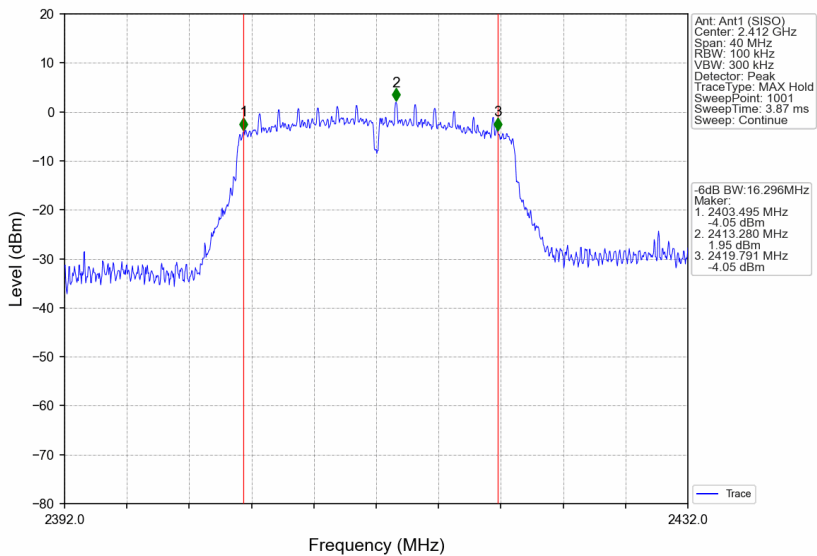
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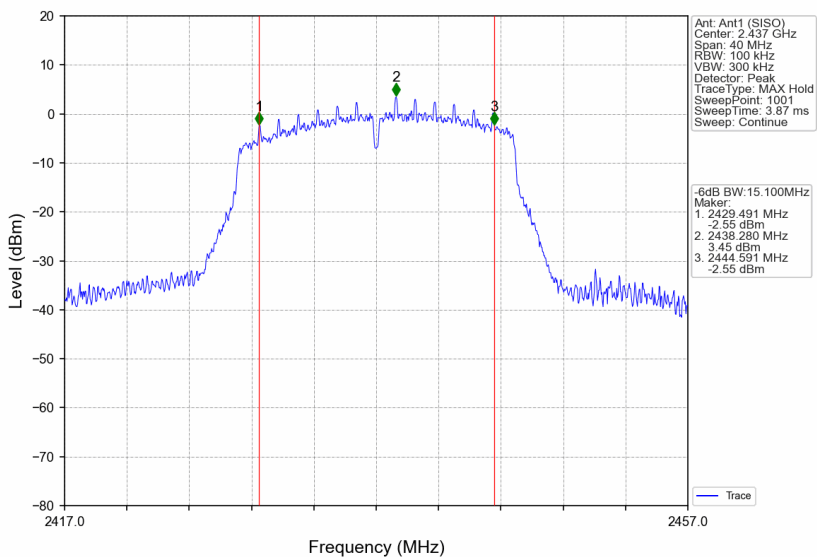
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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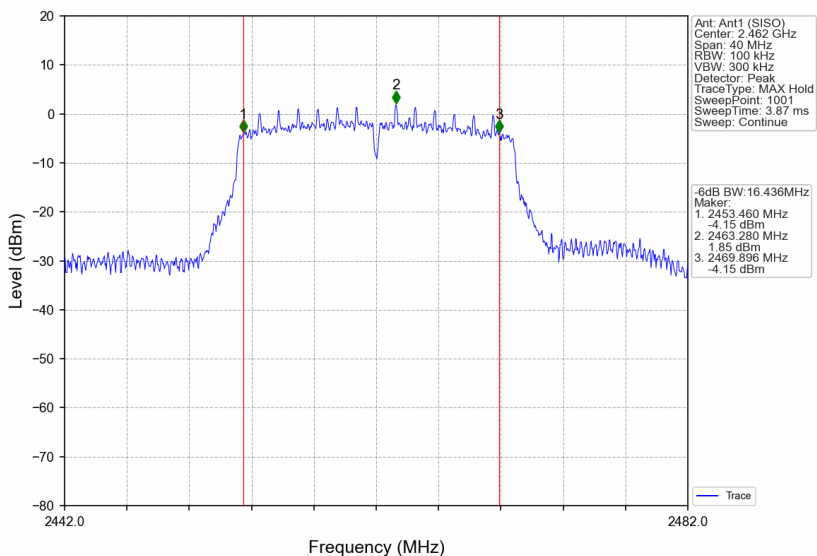
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.51	<=30	Pass
		2437	14.34	<=30	Pass
		2462	13.70	<=30	Pass
802.11g	SISO	2412	11.76	<=30	Pass
		2437	12.82	<=30	Pass
		2462	11.95	<=30	Pass
802.11n (HT20)	SISO	2412	12.02	<=30	Pass
		2437	12.81	<=30	Pass
		2462	12.13	<=30	Pass

Note1: Antenna Gain: Ant1: -5.98dBi;



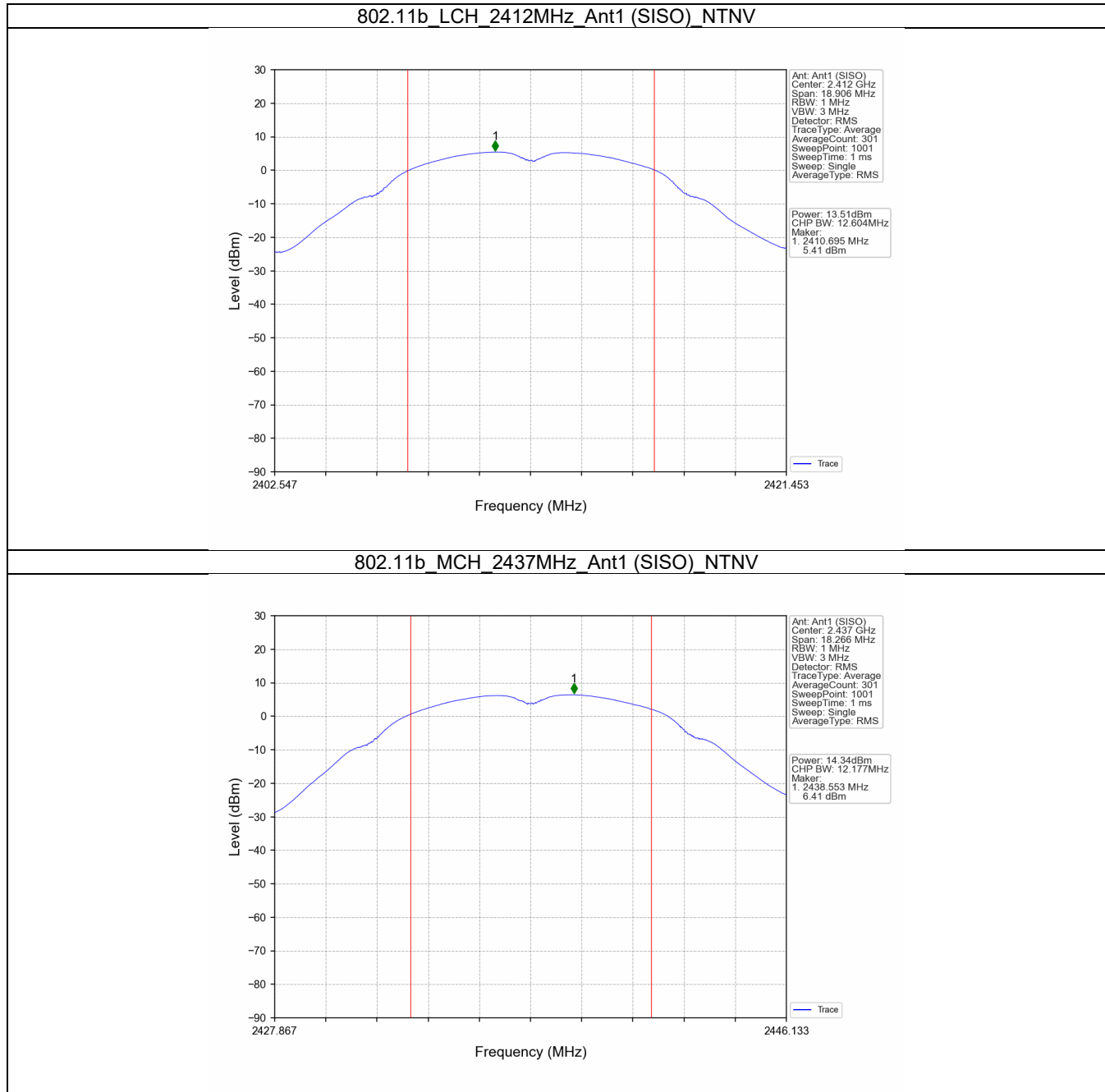
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3.1.2 Test Graph



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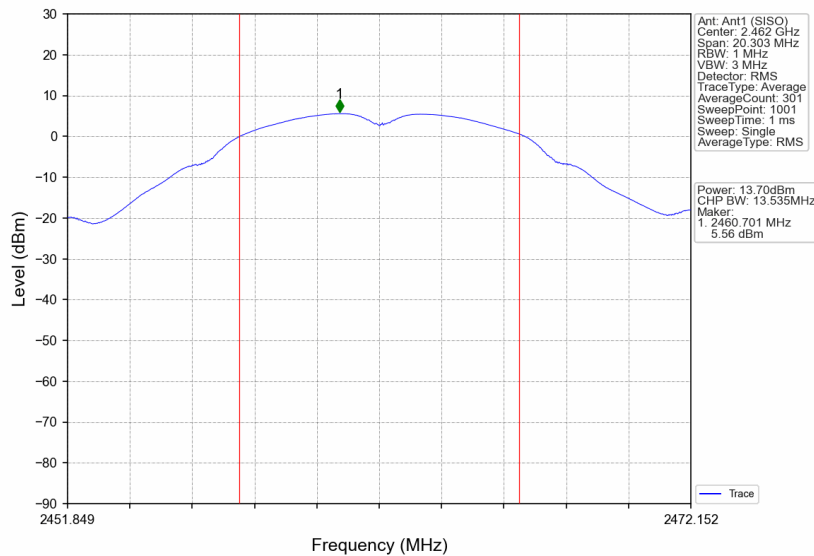
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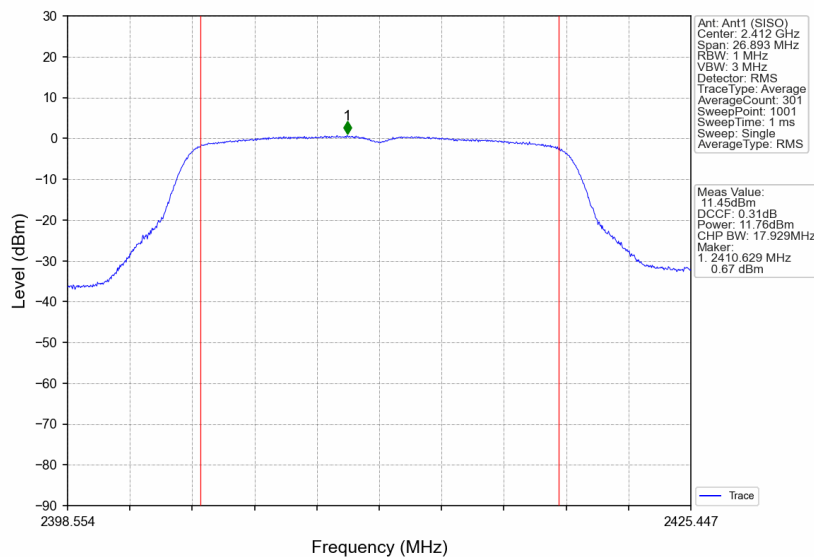
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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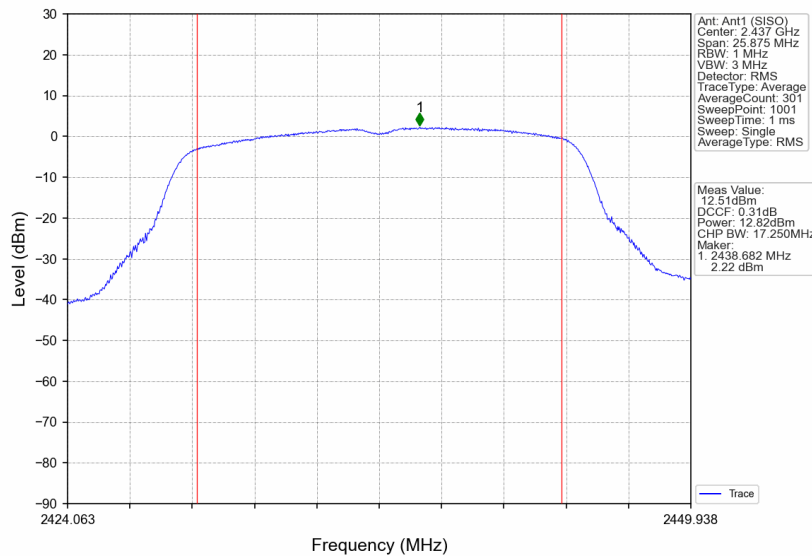
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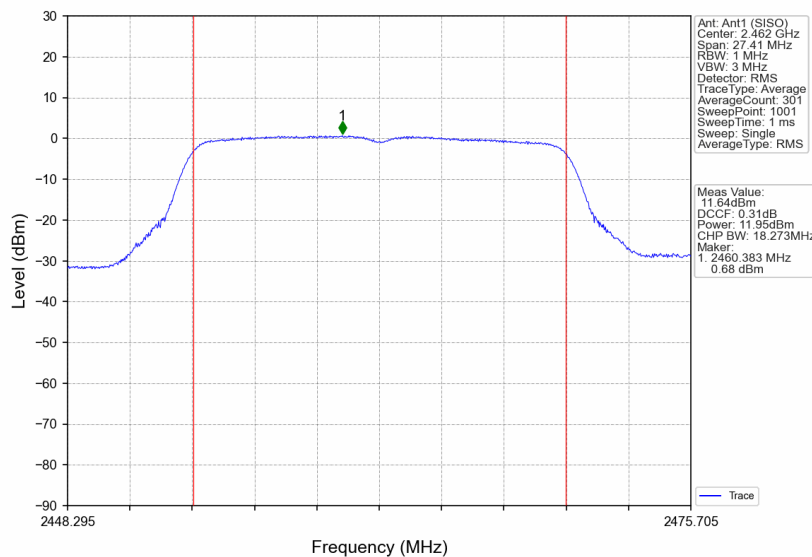
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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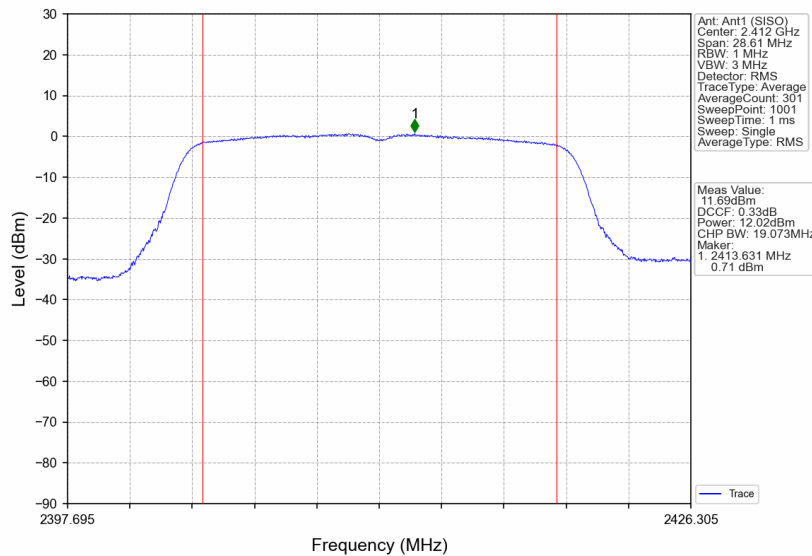
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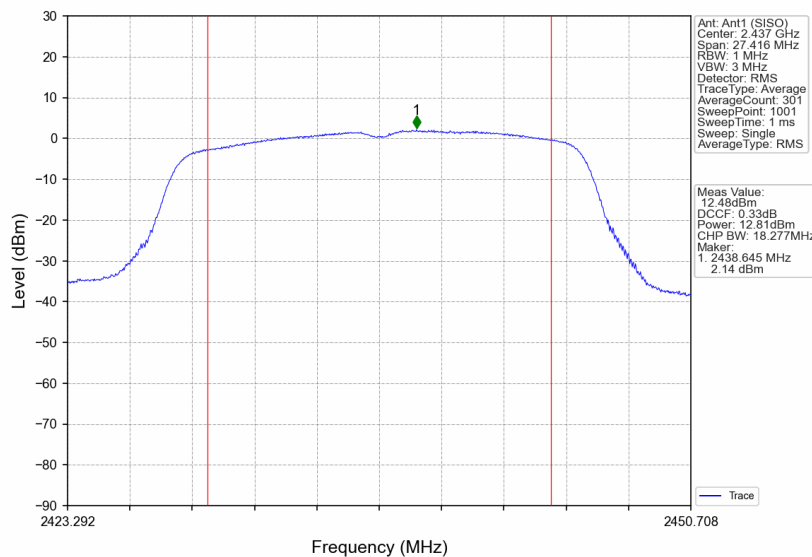
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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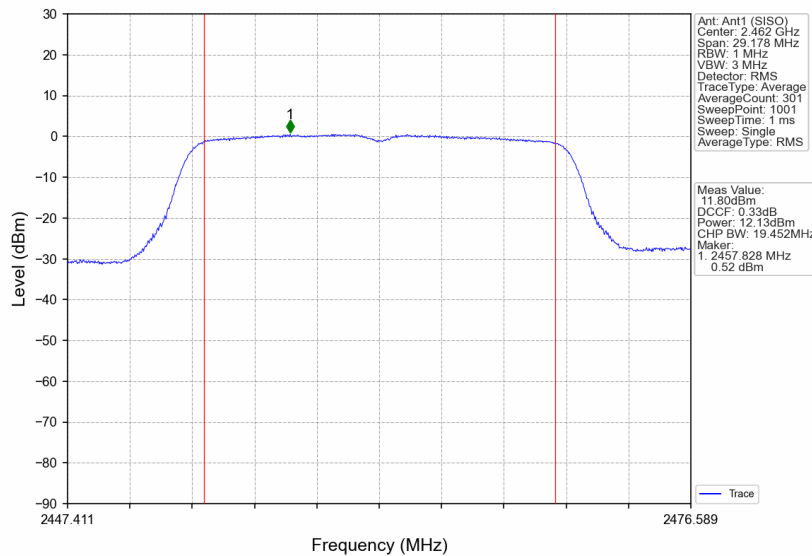
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-9.72	<=8	Pass
		2437	-9.01	<=8	Pass
		2462	-9.61	<=8	Pass
802.11g	SISO	2412	-13.26	<=8	Pass
		2437	-12.71	<=8	Pass
		2462	-13.75	<=8	Pass
802.11n (HT20)	SISO	2412	-14.00	<=8	Pass
		2437	-12.13	<=8	Pass
		2462	-13.47	<=8	Pass

Note1: Antenna Gain: Ant1: -5.98dBi;



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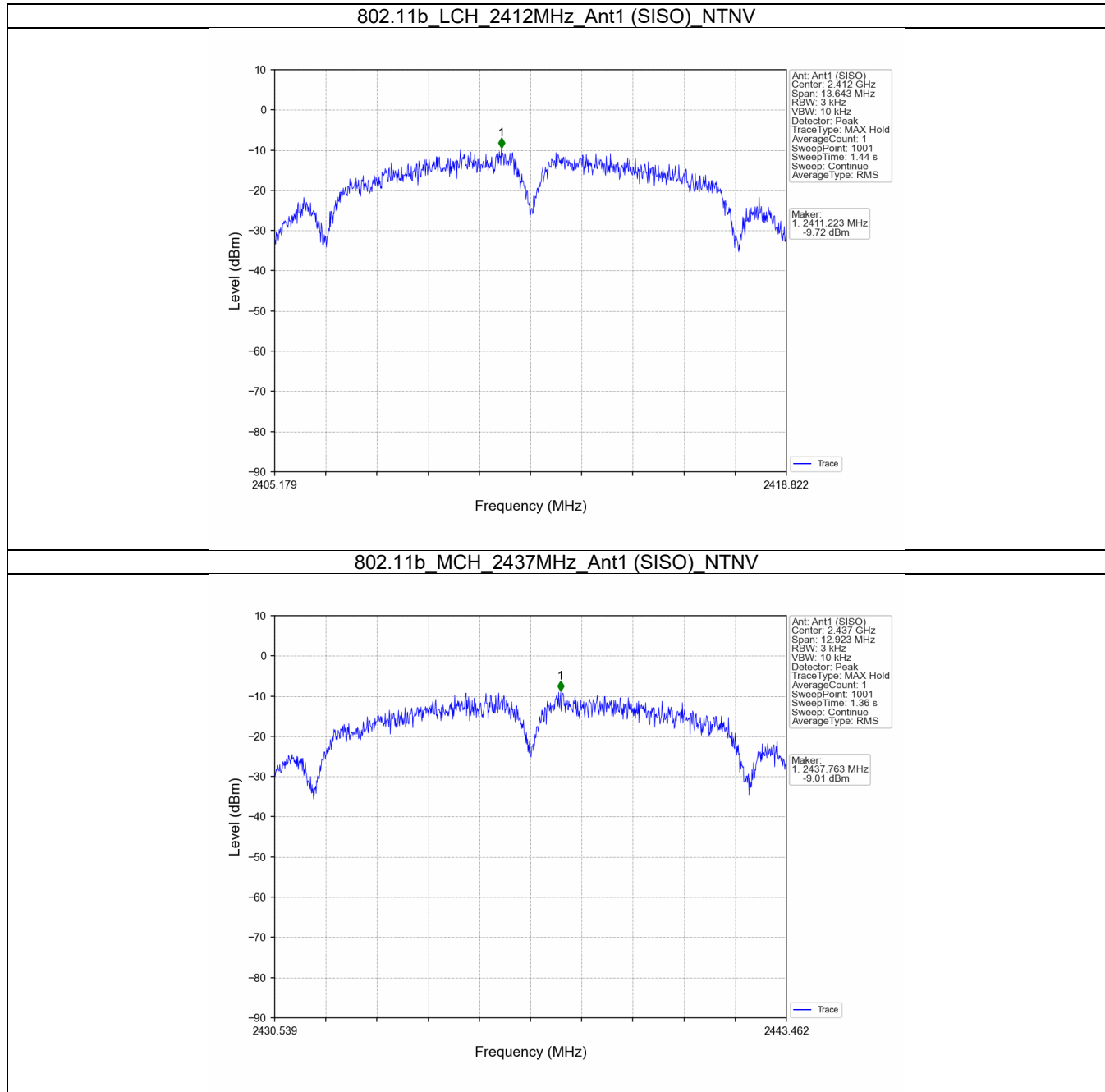
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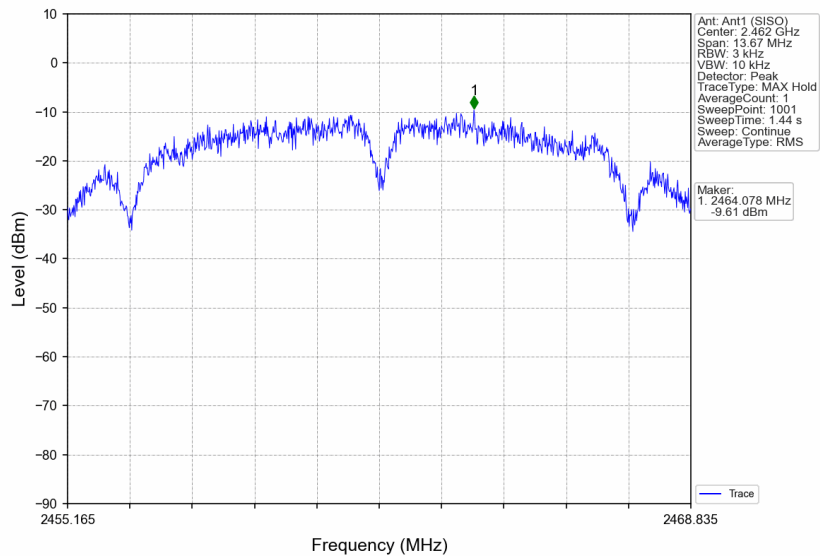
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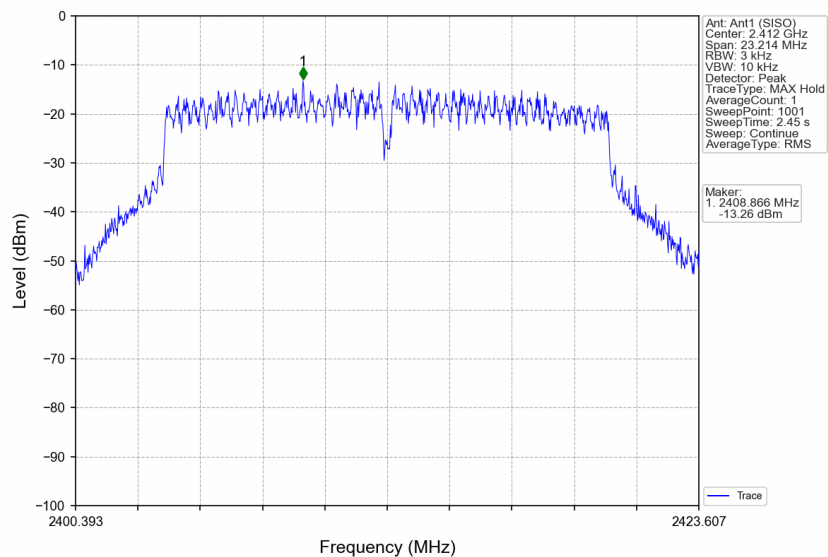
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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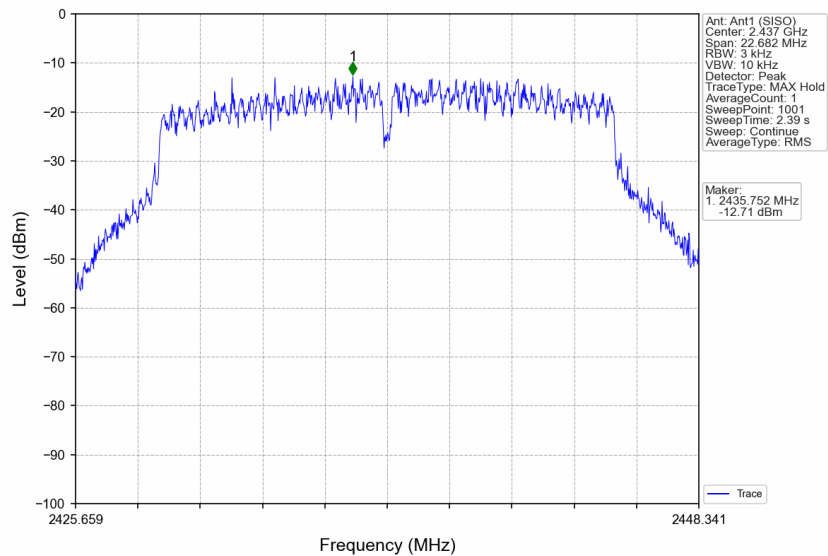
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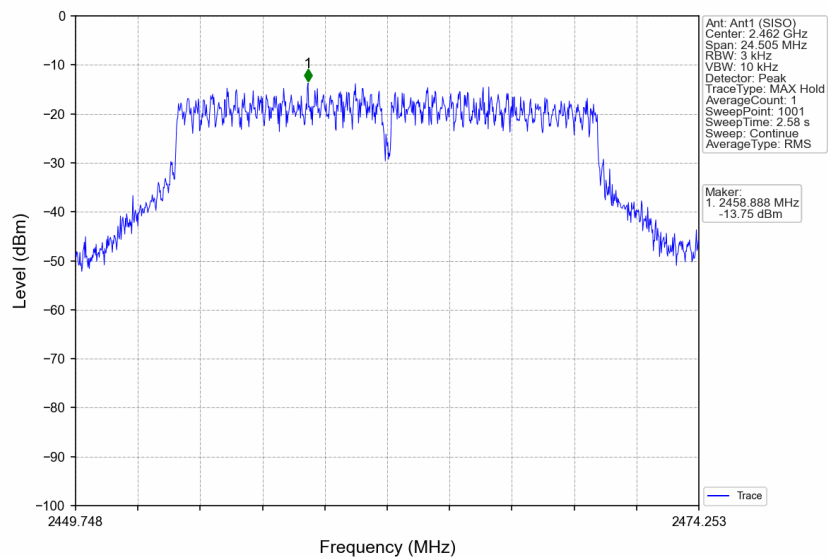
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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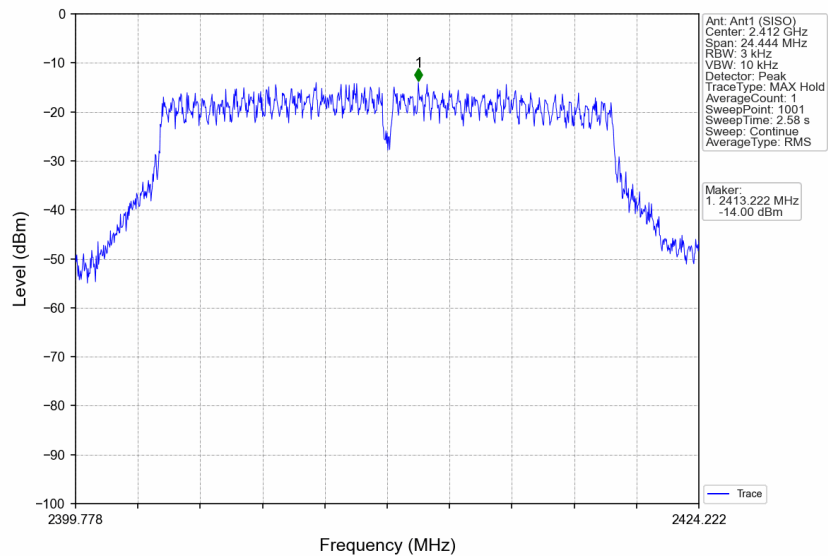
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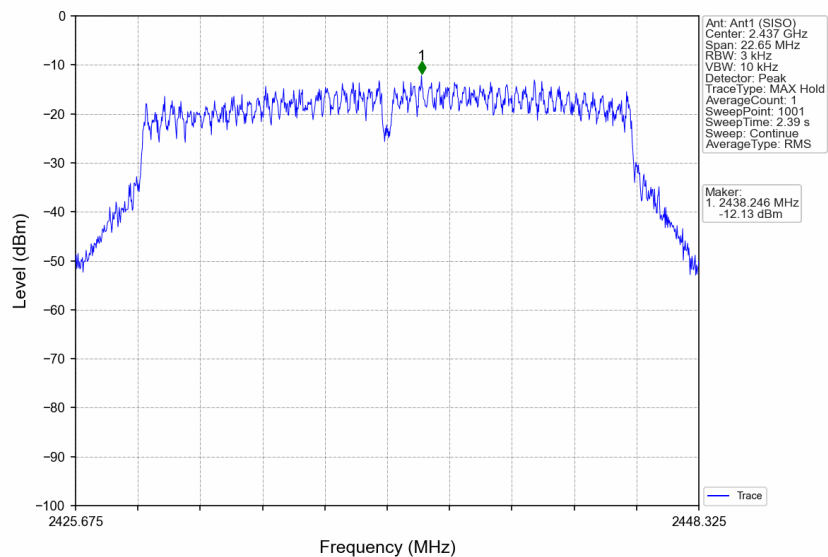
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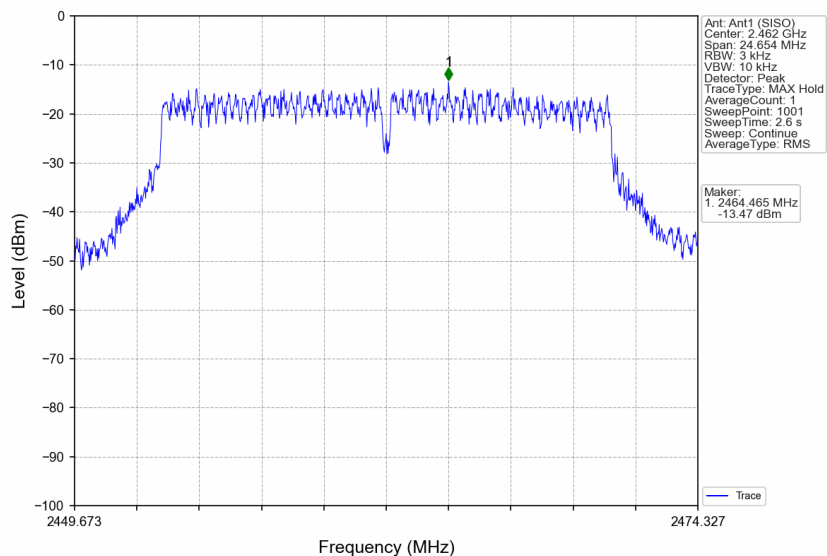
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.22
		2437	1	6.13
		2462	1	5.15
802.11g	SISO	2412	1	1.29
		2437	1	2.94
		2462	1	1.16
802.11n (HT20)	SISO	2412	1	1.52
		2437	1	3.25
		2462	1	1.67

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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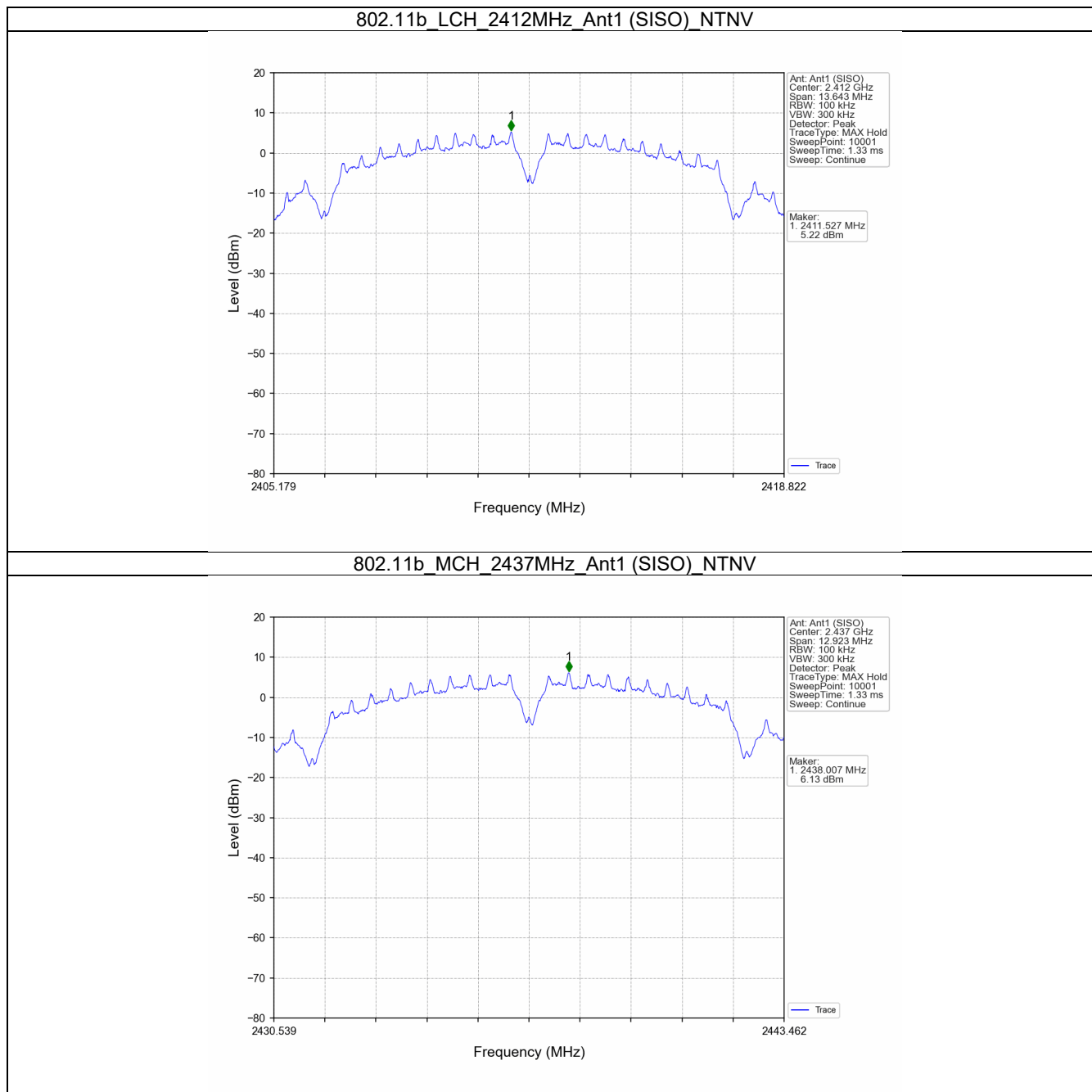
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5.1.2 Test Graph



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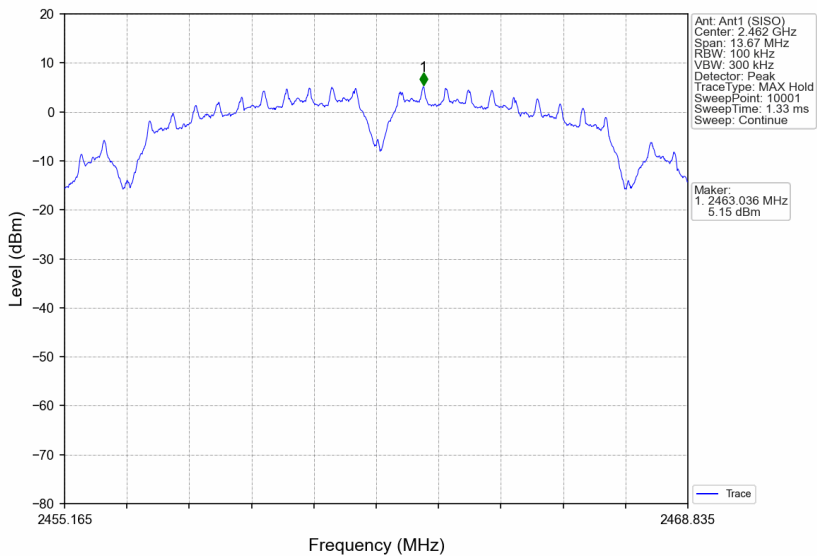
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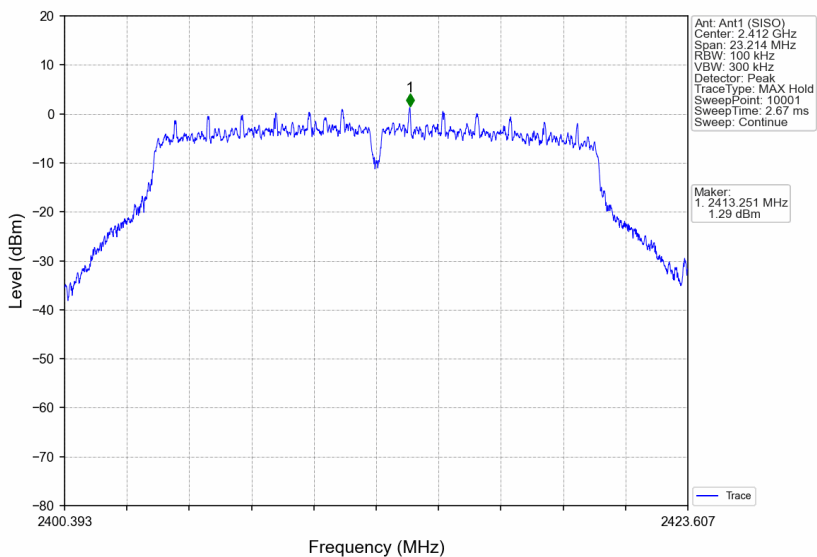
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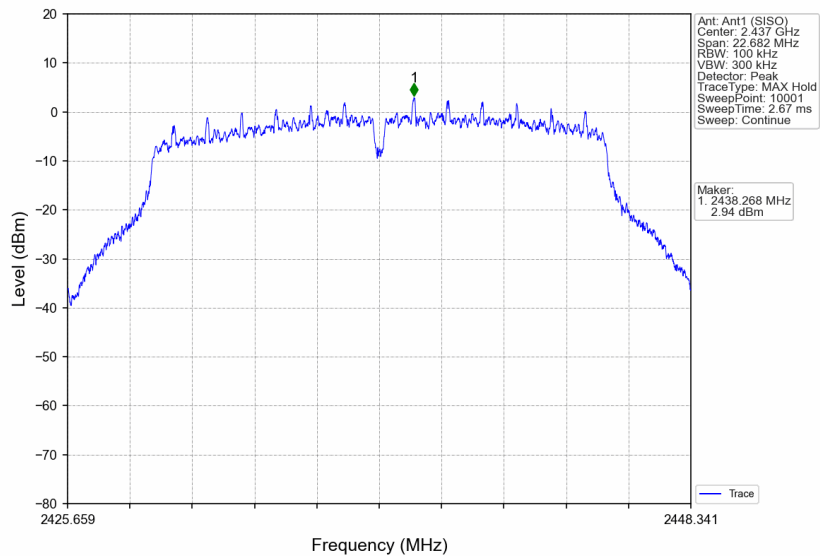
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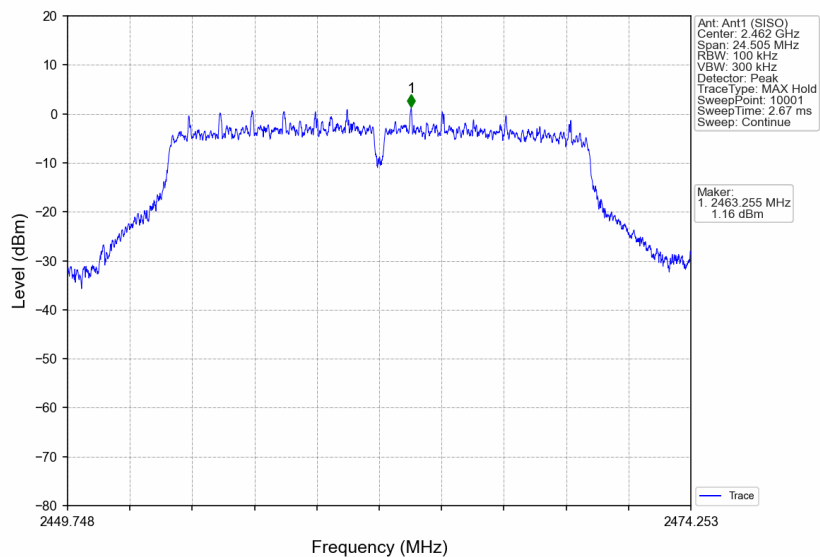
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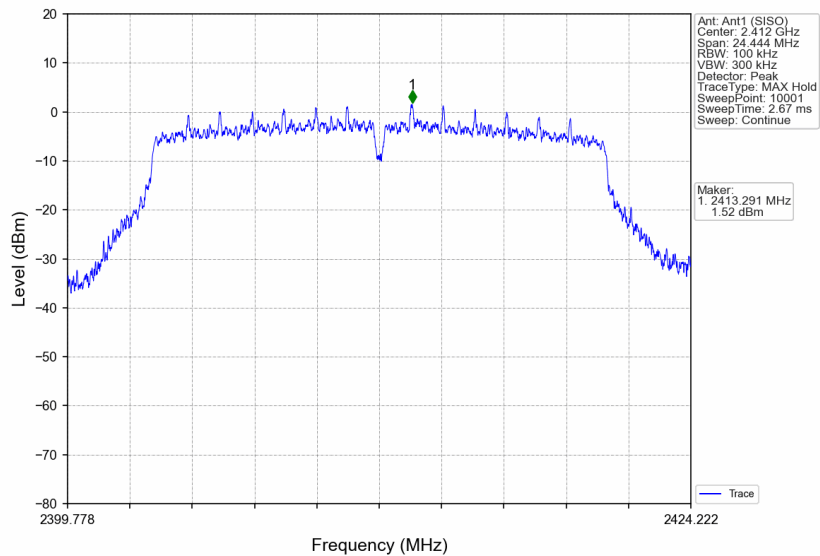
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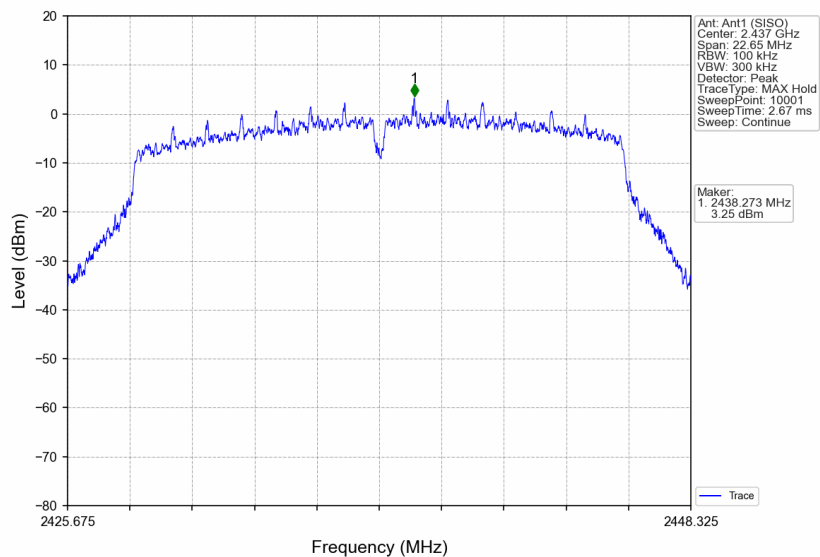
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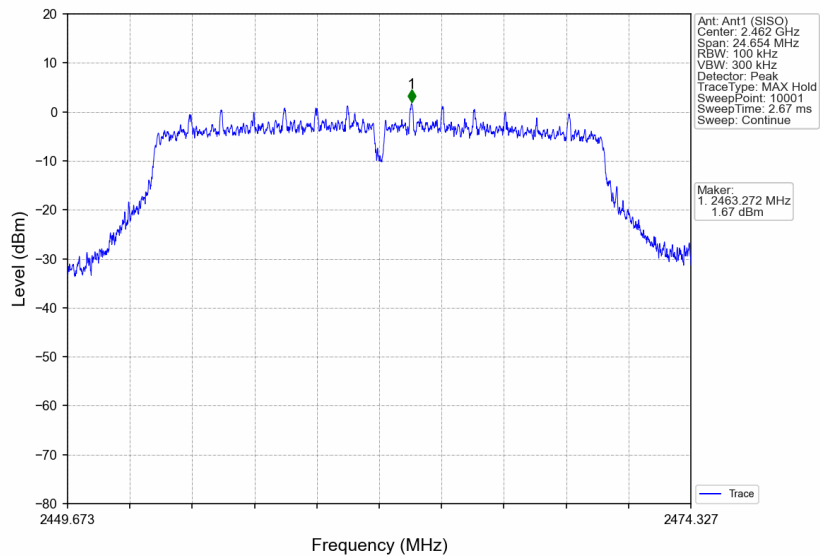
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Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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	6.13	-23.87	Pass
		2437	1	6.13	-23.87	Pass
		2462	1	6.13	-23.87	Pass
802.11g	SISO	2412	1	2.94	-27.06	Pass
		2437	1	2.94	-27.06	Pass
		2462	1	2.94	-27.06	Pass
802.11n (HT20)	SISO	2412	1	3.25	-26.75	Pass
		2437	1	3.25	-26.75	Pass
		2462	1	3.25	-26.75	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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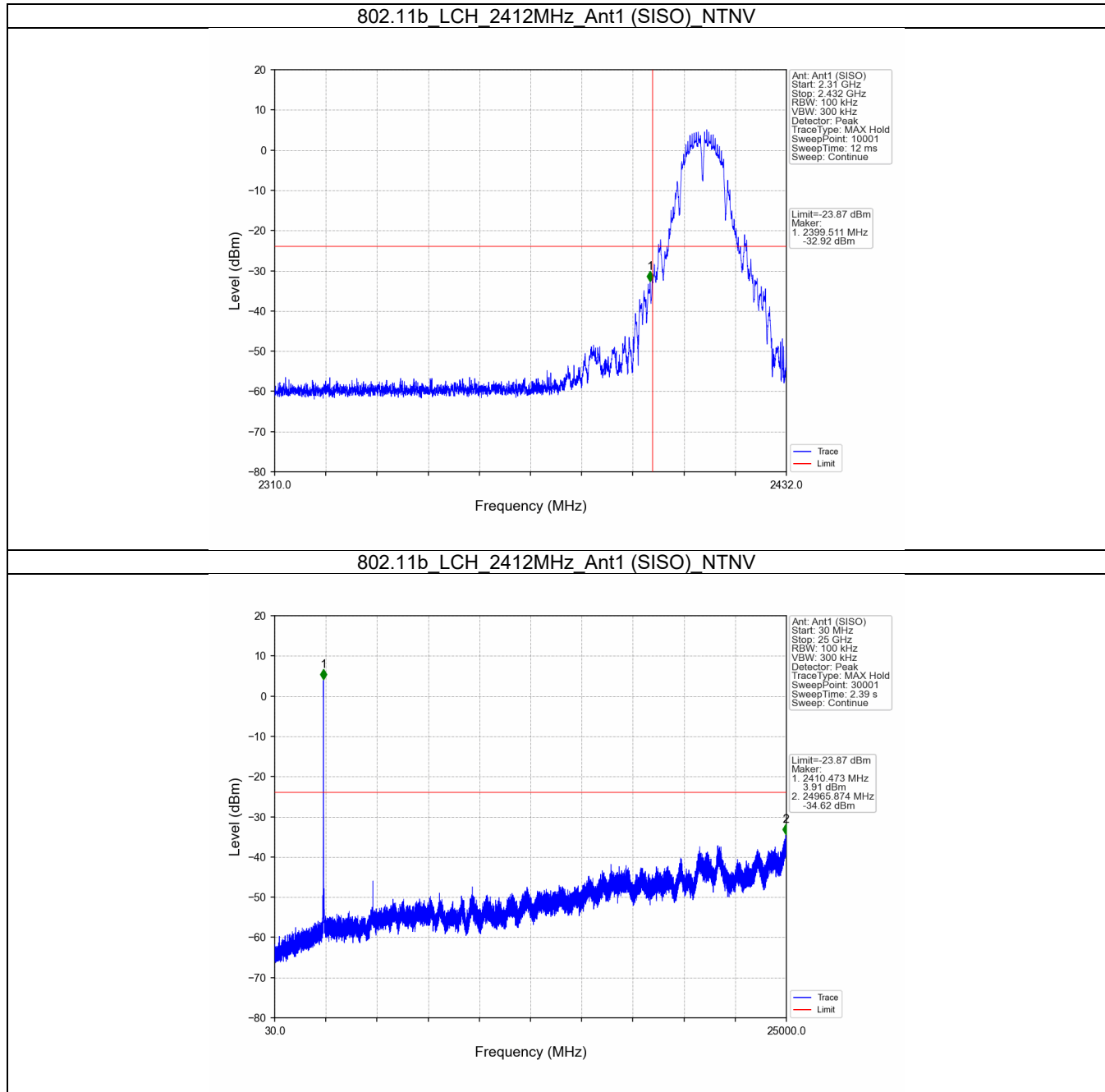
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5.2.2 Test Graph



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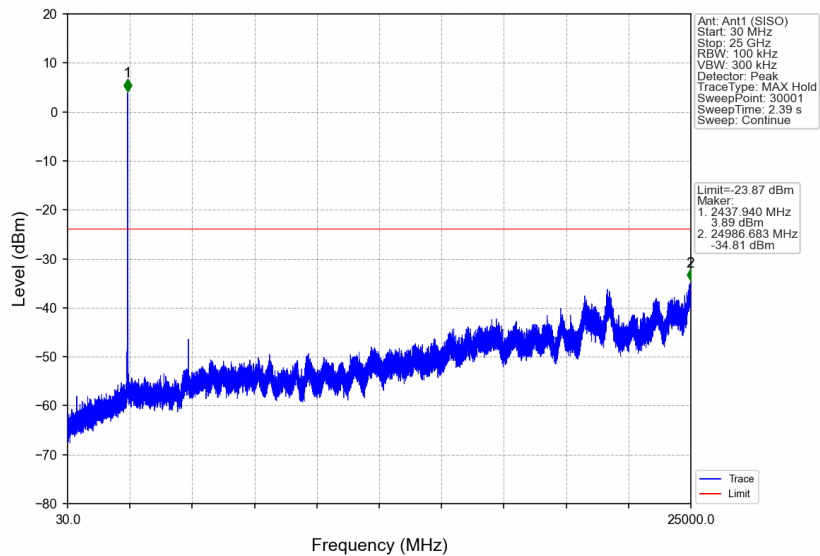
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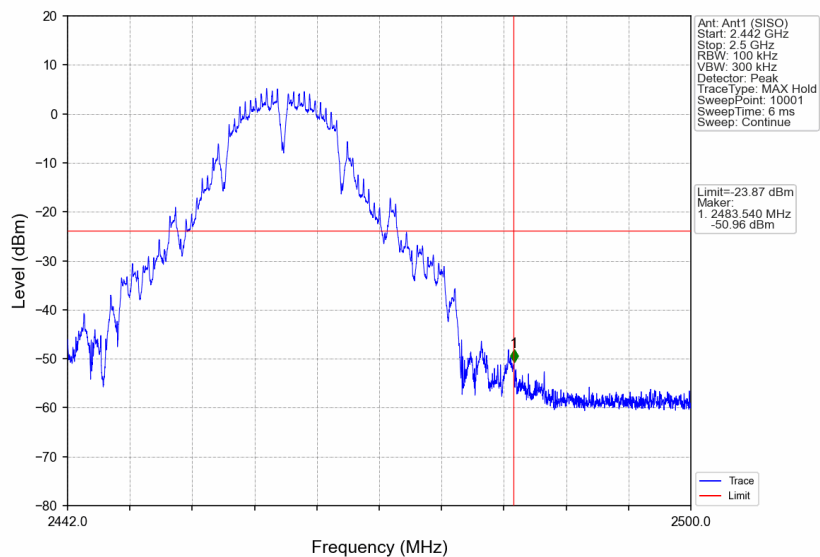
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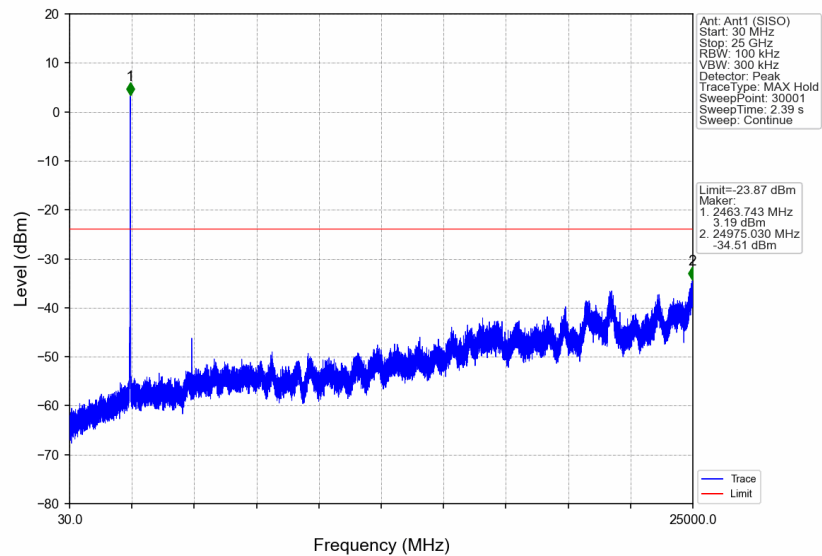
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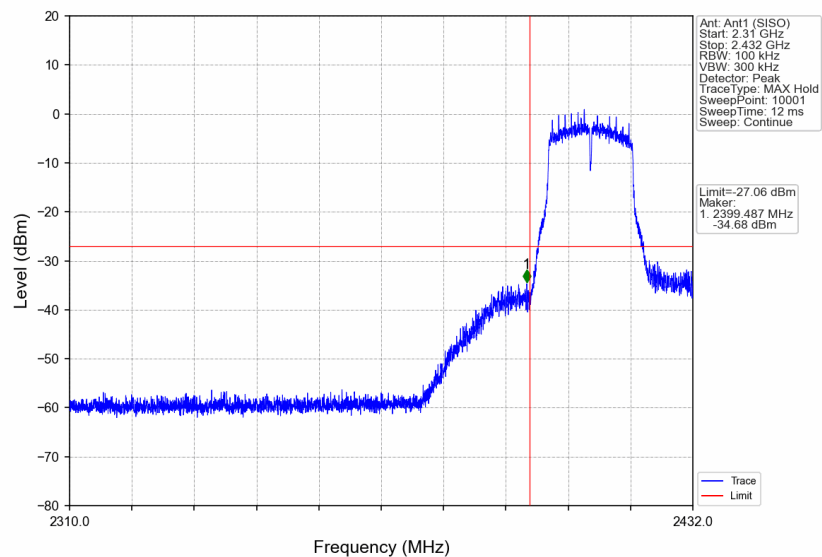
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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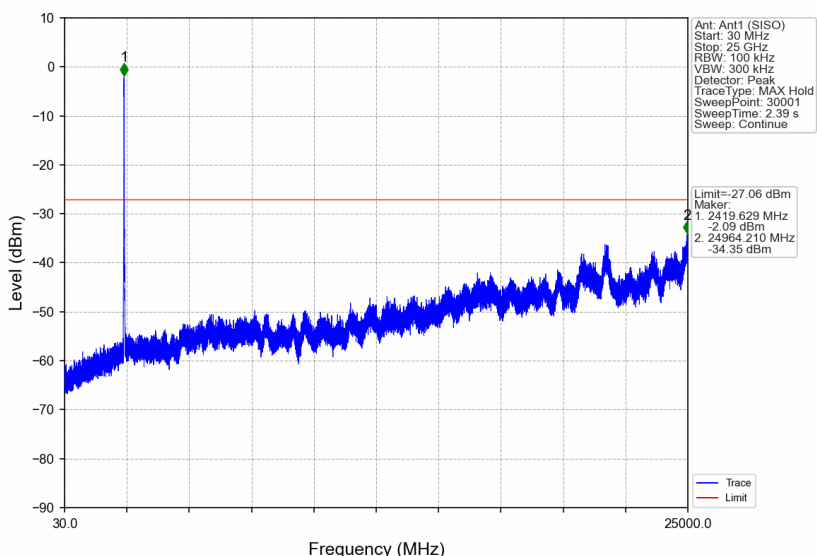
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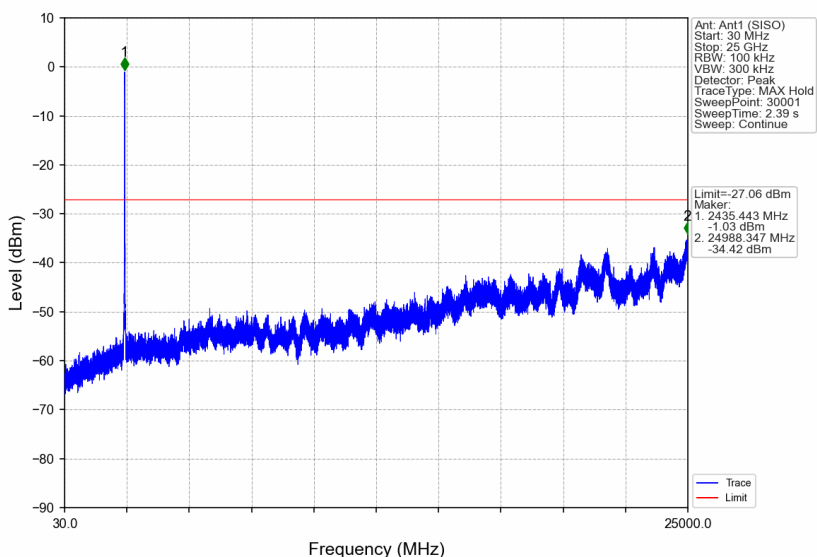
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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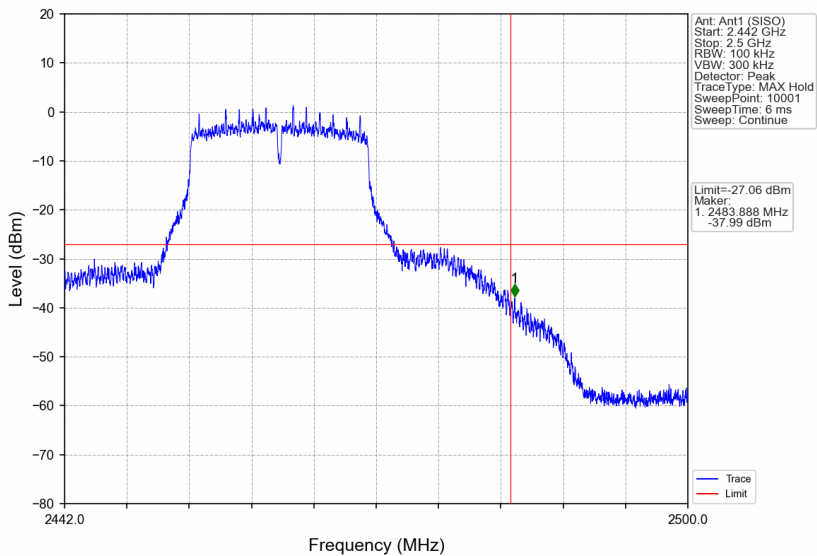
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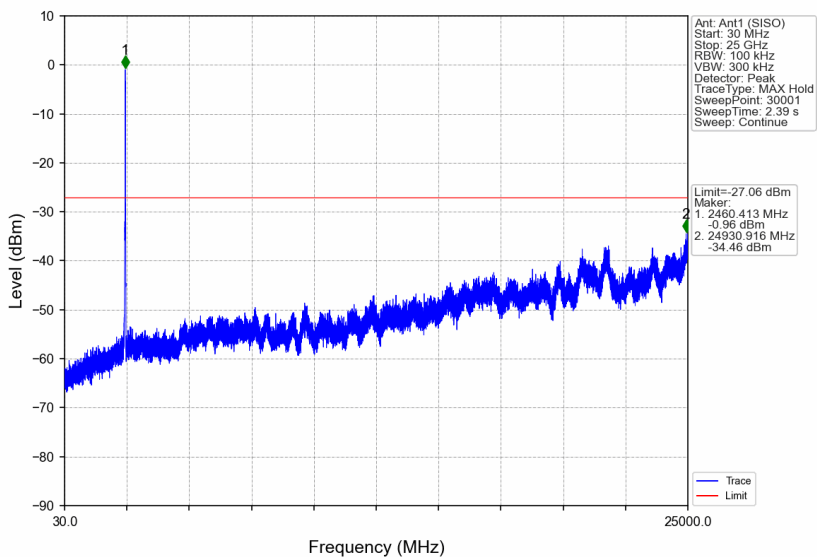
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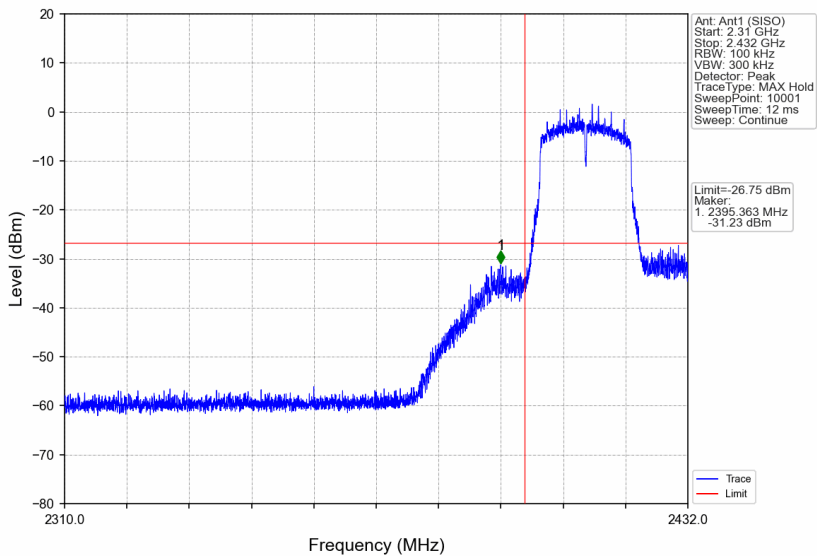
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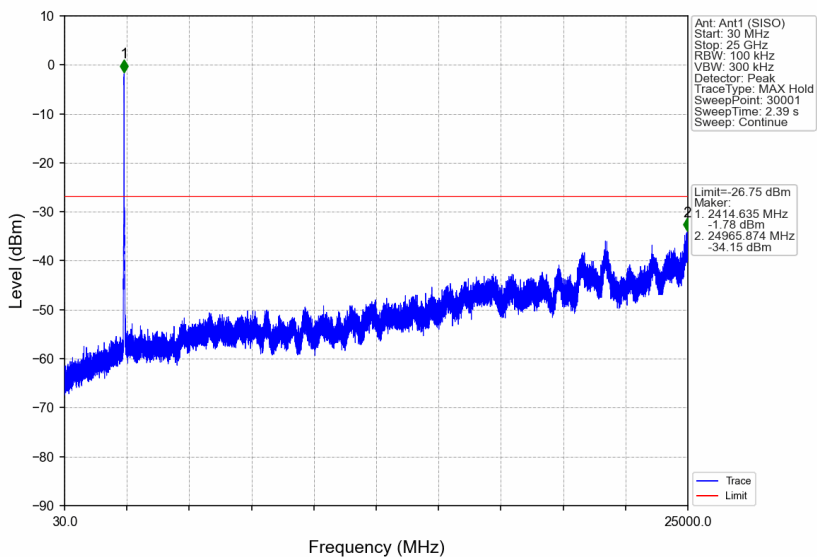
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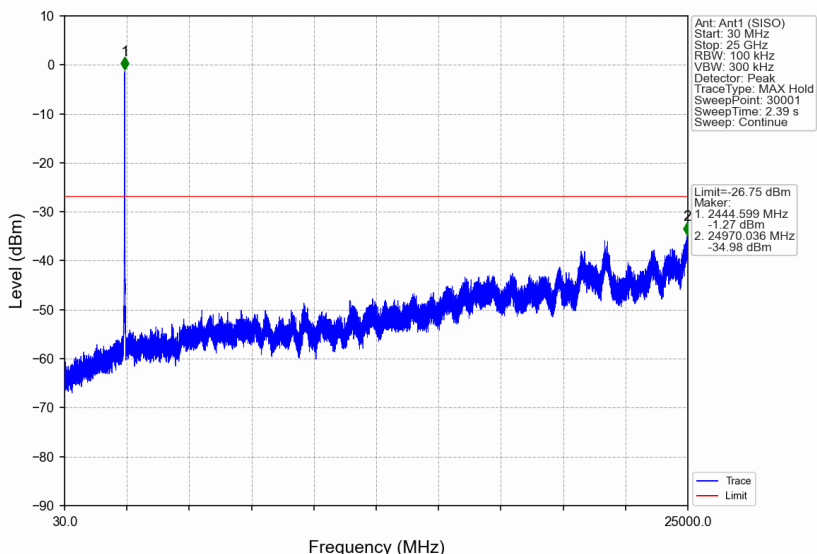
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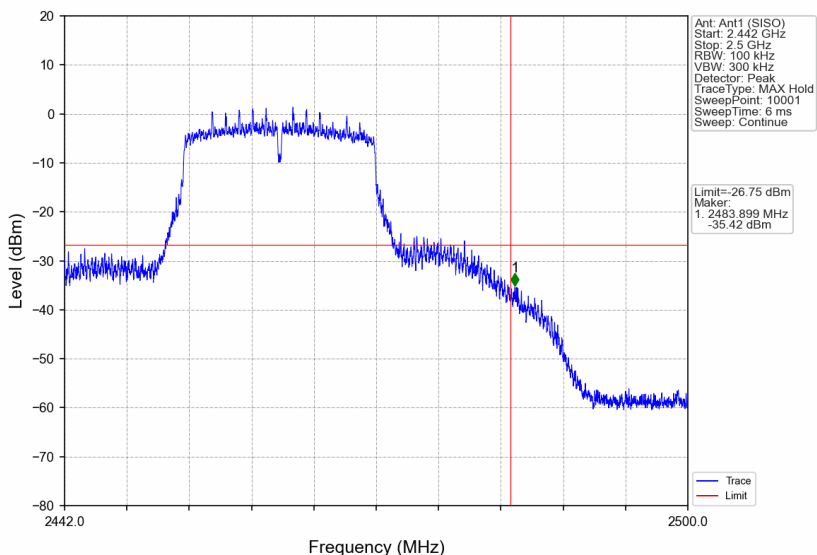
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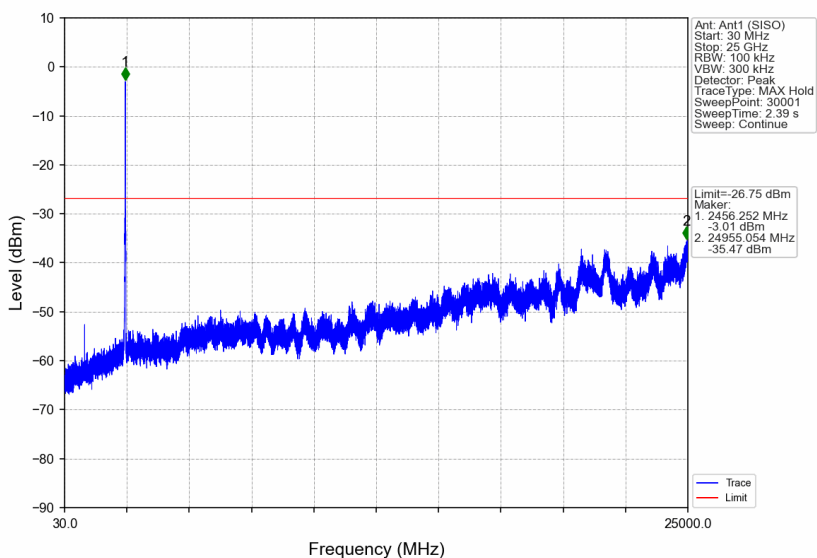
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