

Appendix A for KSCR220300029401

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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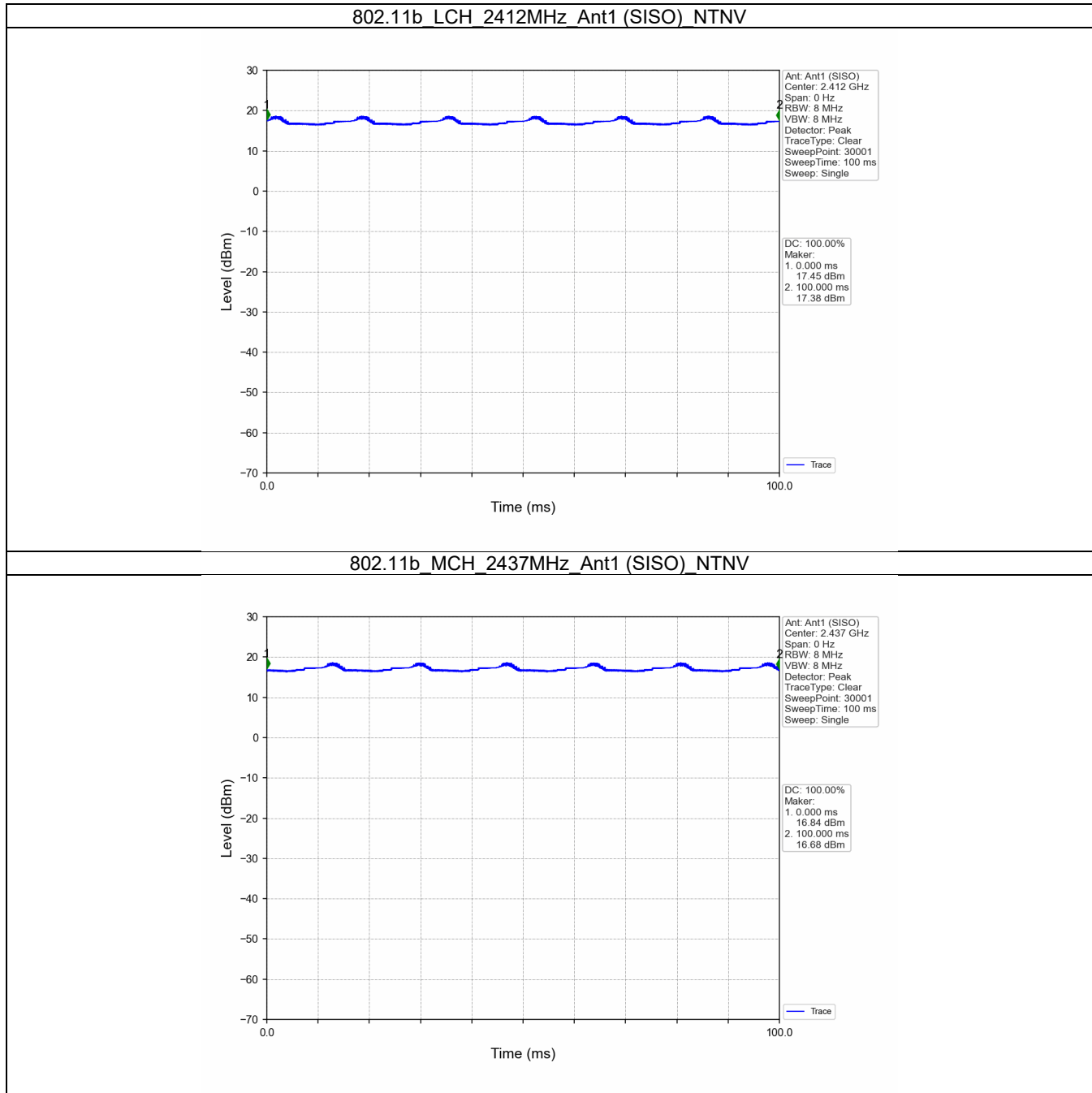
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1.1.2 Test Graph



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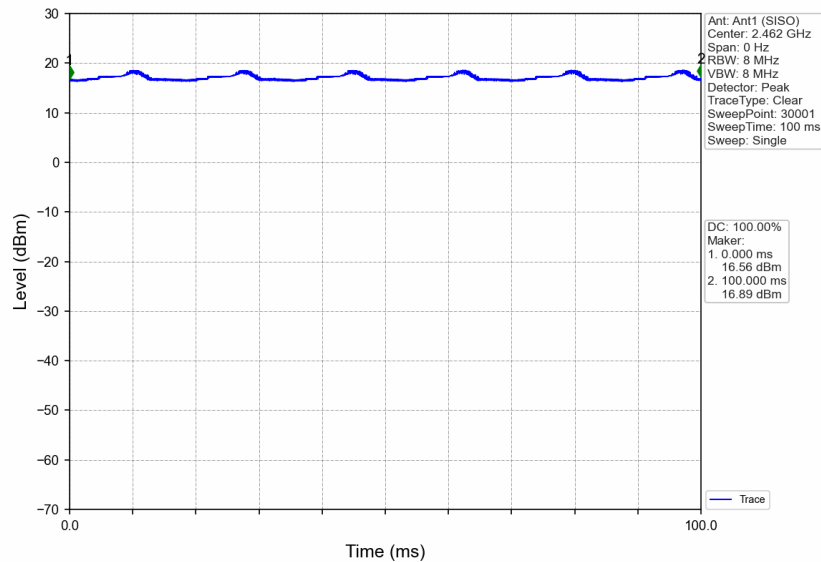
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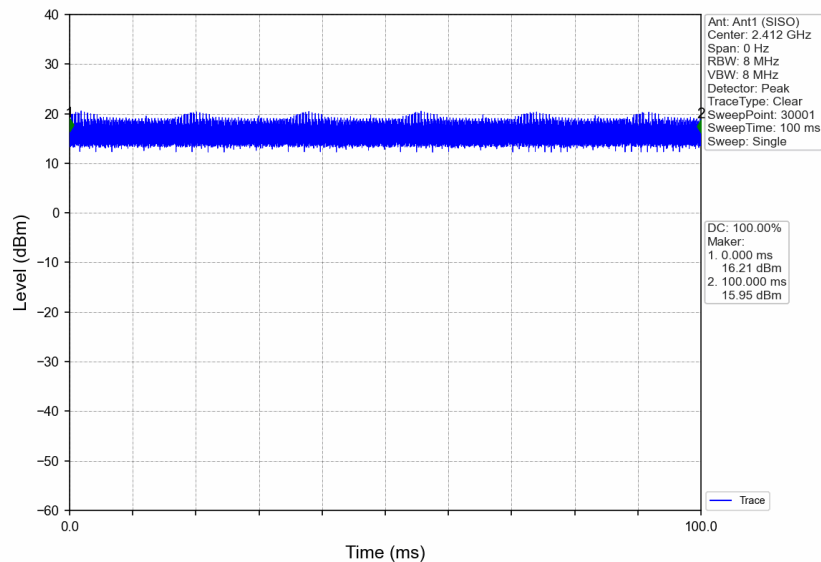


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



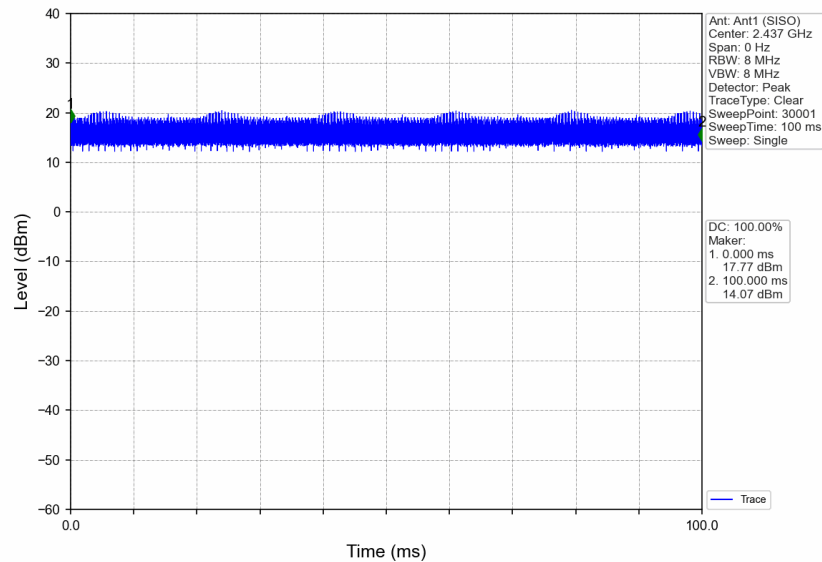
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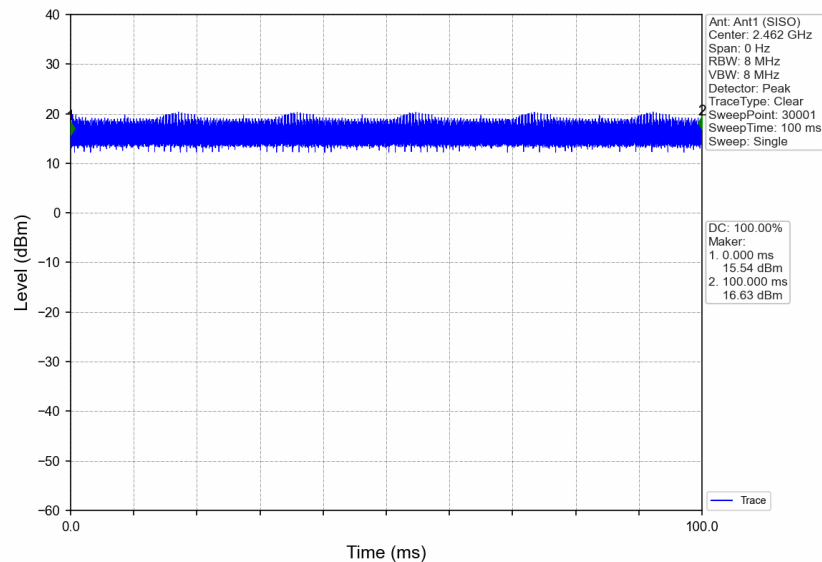
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

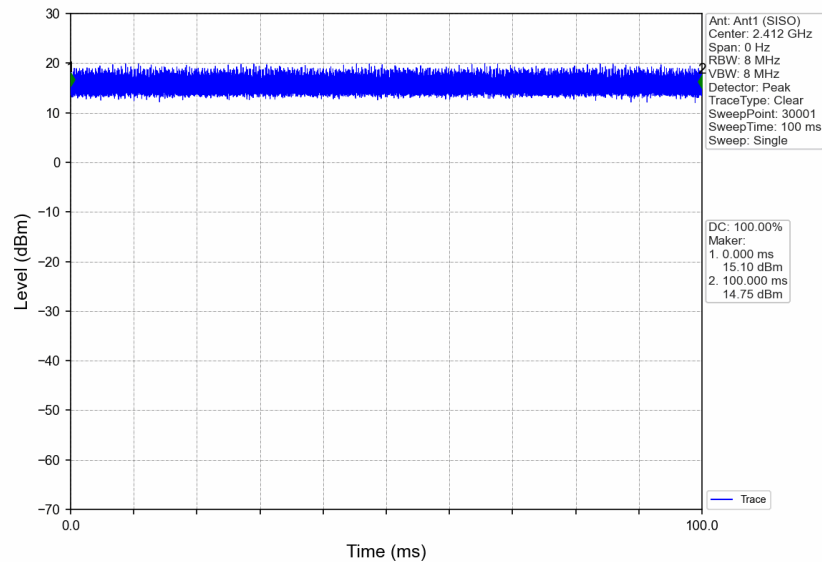


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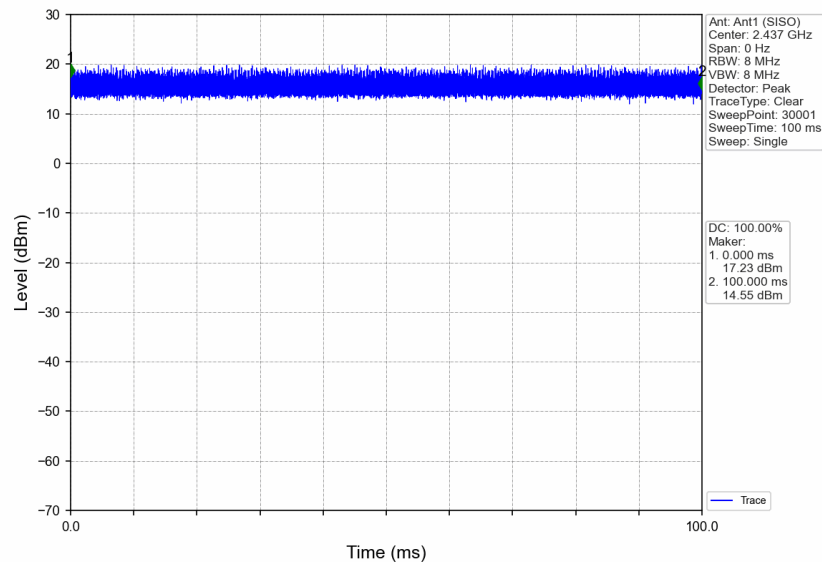
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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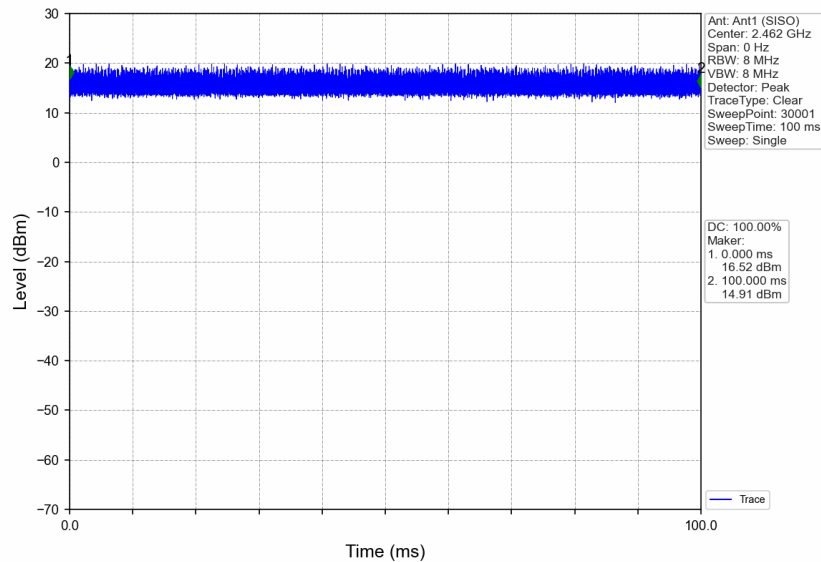
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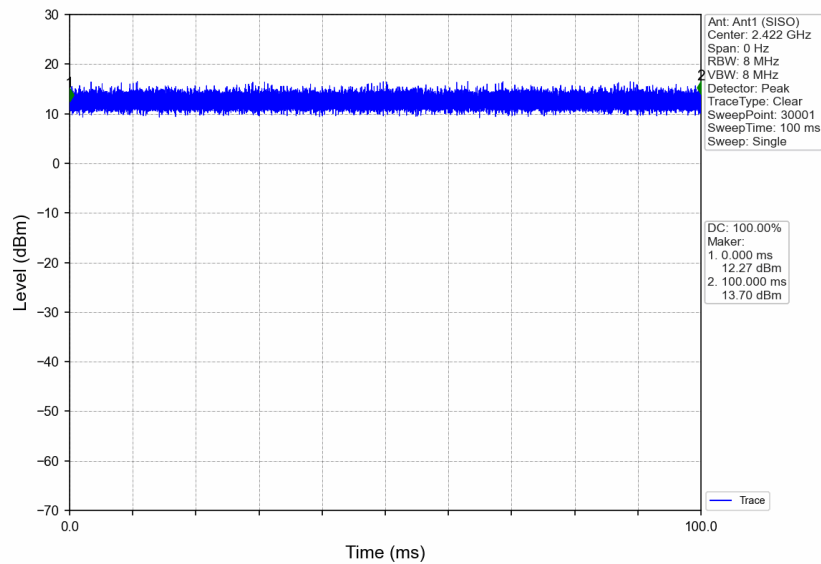
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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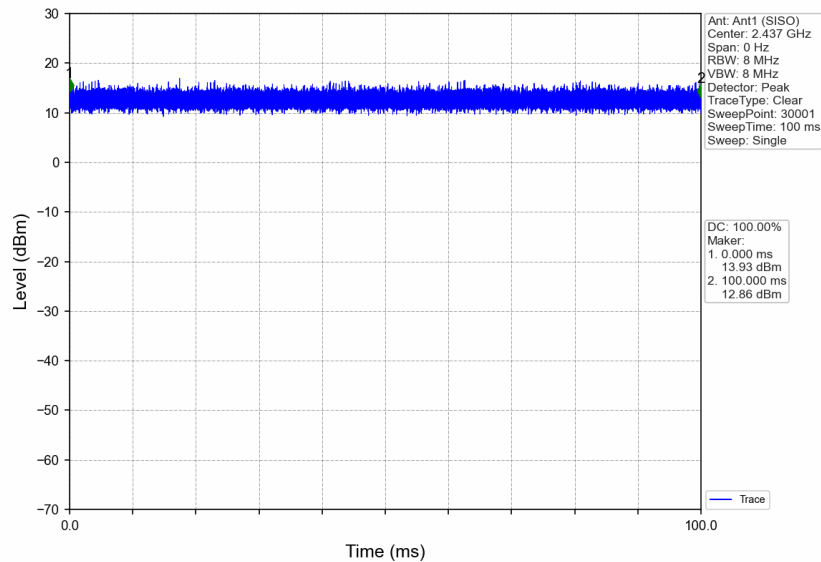
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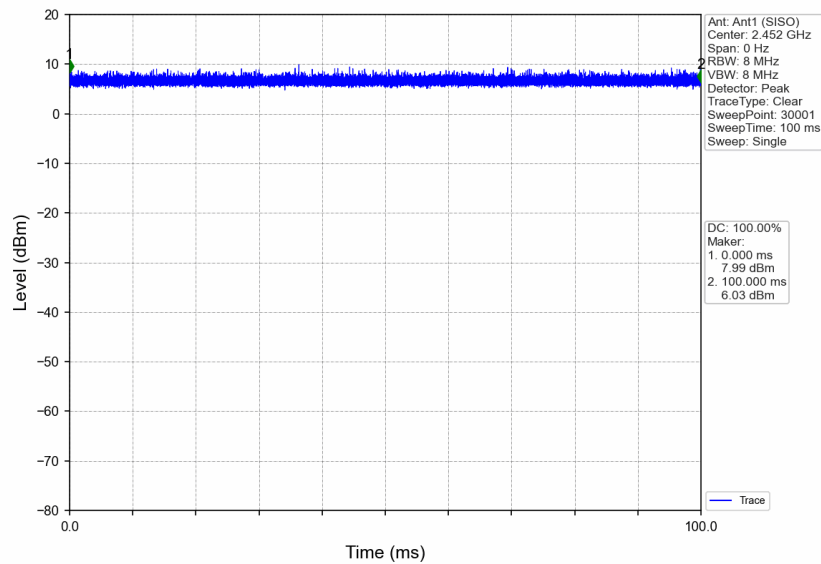
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	15.174	Pass
		2437	1	15.184	Pass
		2462	1	15.159	Pass
802.11g	SISO	2412	1	17.598	Pass
		2437	1	17.583	Pass
		2462	1	17.572	Pass
802.11n (HT20)	SISO	2412	1	18.400	Pass
		2437	1	18.389	Pass
		2462	1	18.373	Pass
802.11n (HT40)	SISO	2422	1	36.211	Pass
		2437	1	36.210	Pass
		2452	1	36.131	Pass



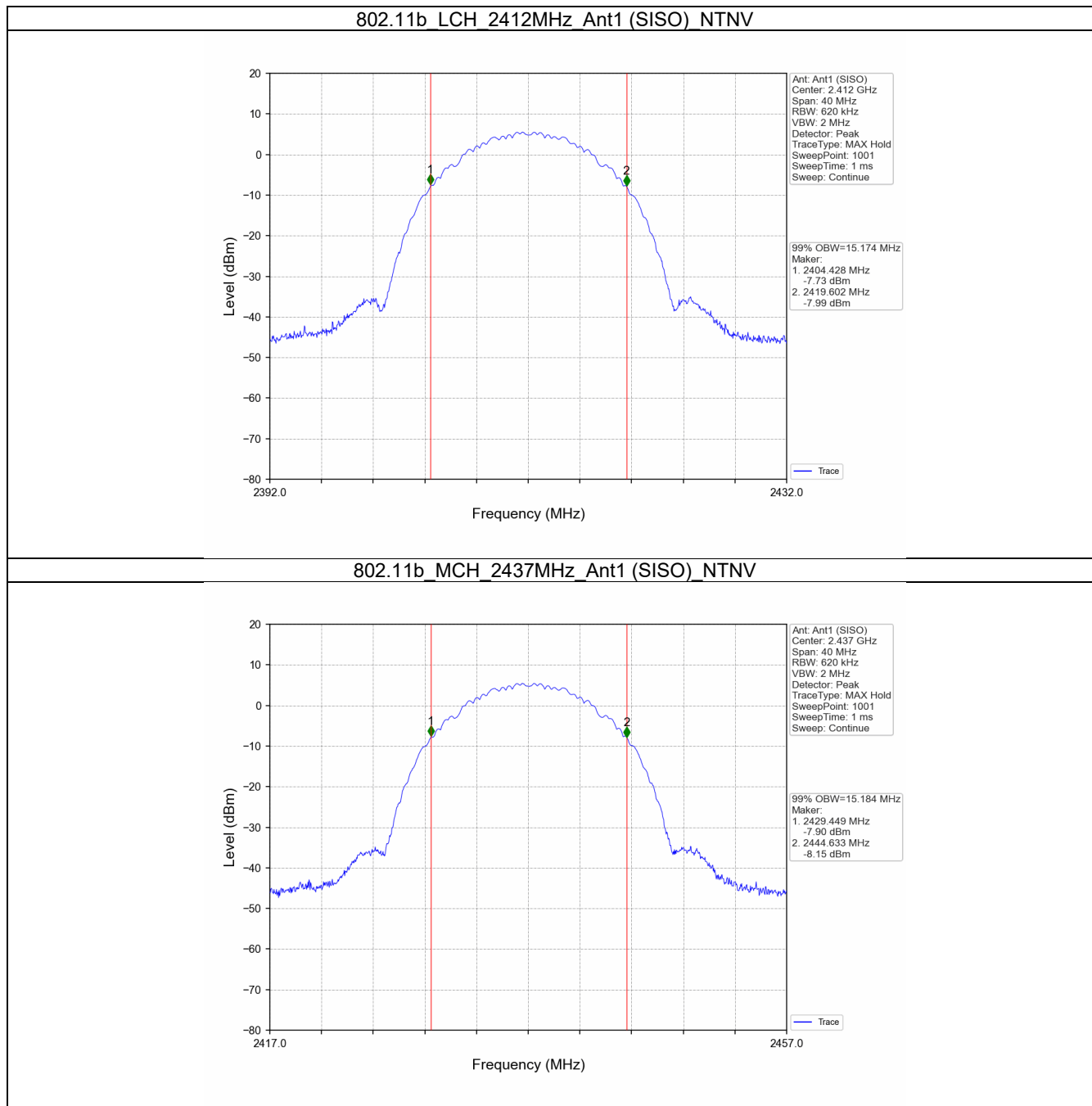
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2.1.2 Test Graph



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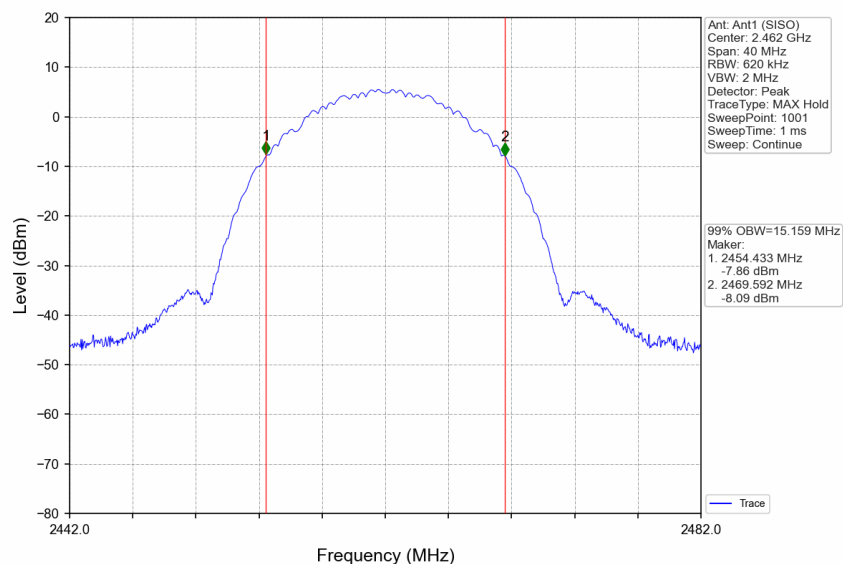
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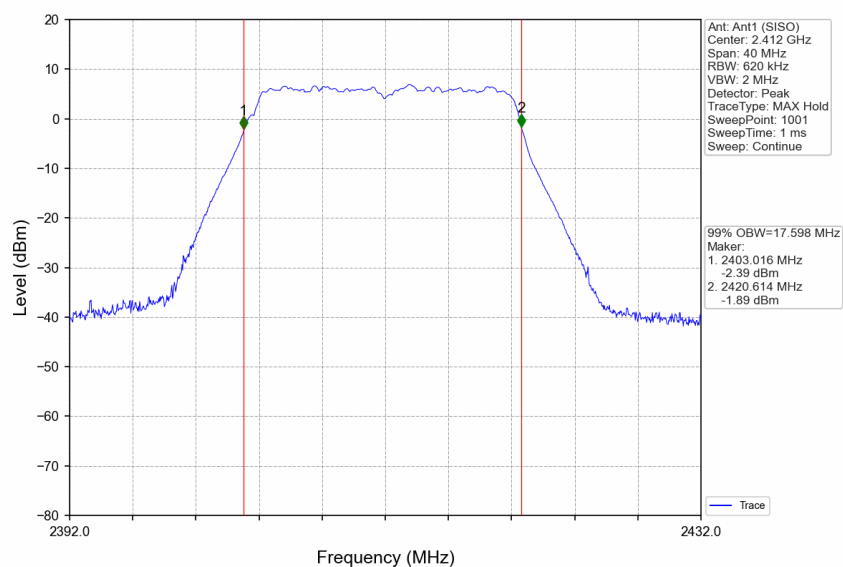
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



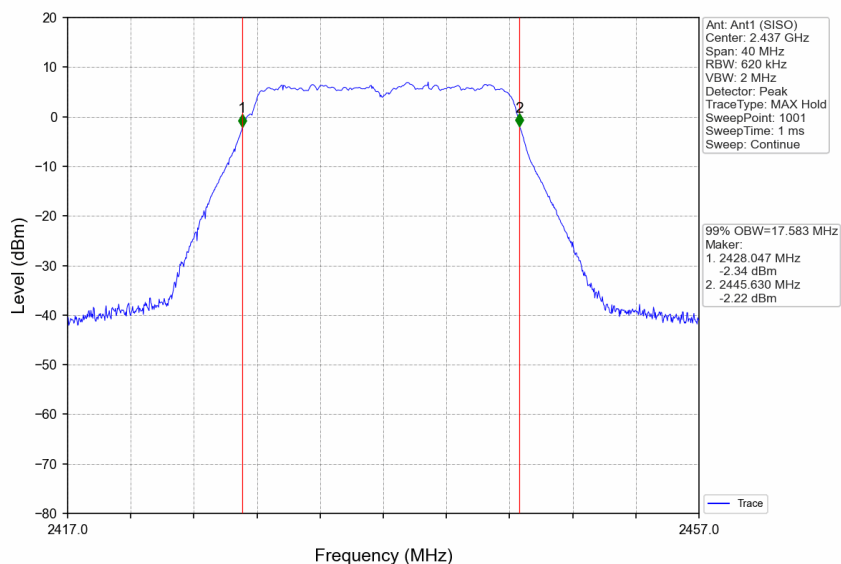
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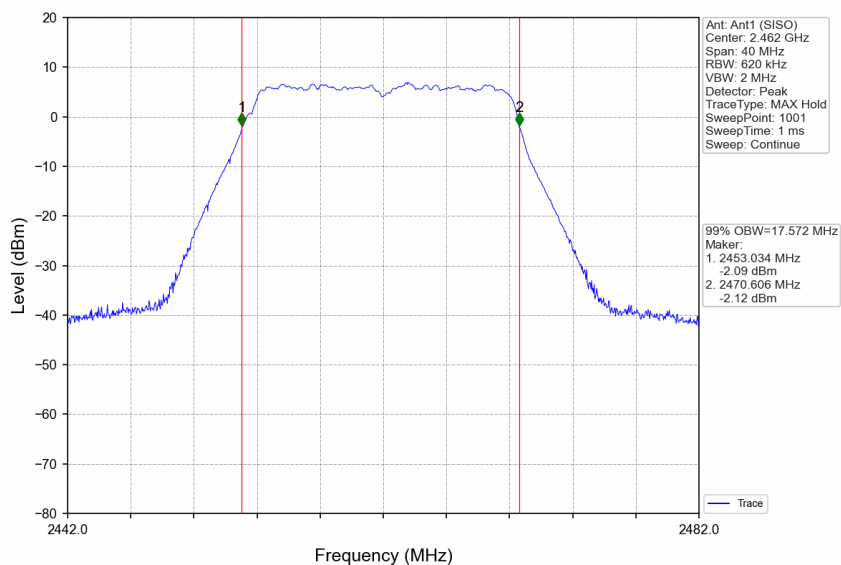
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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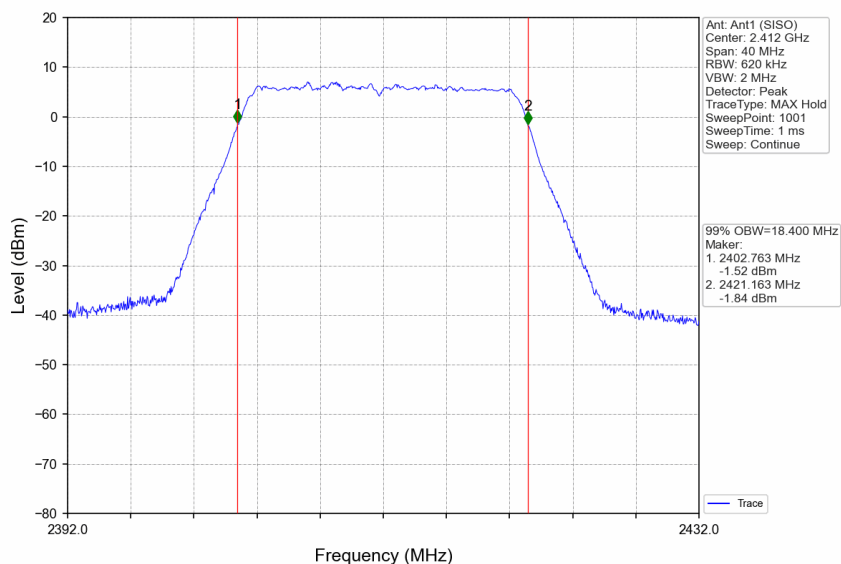
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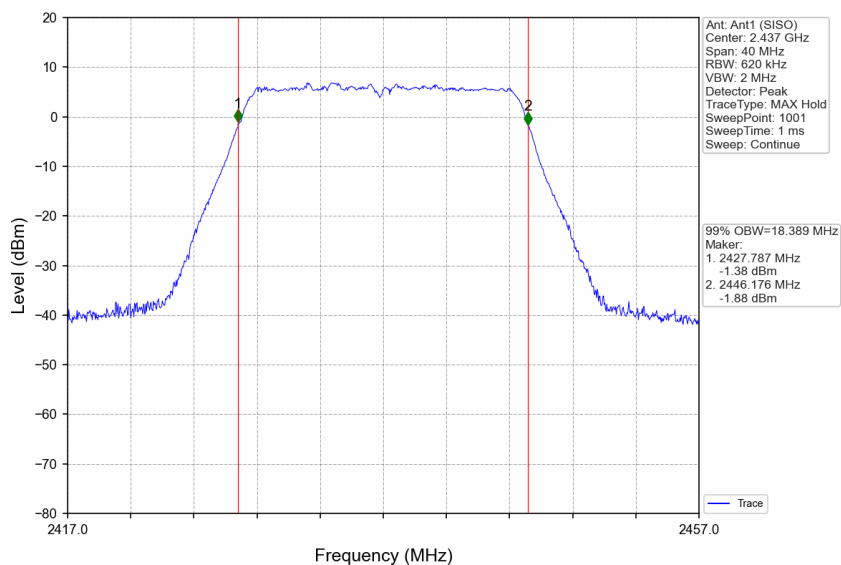
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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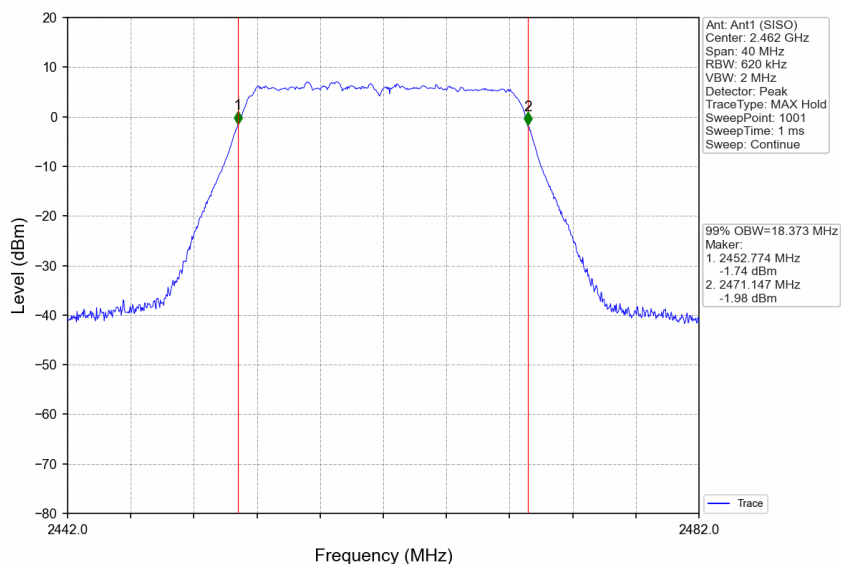
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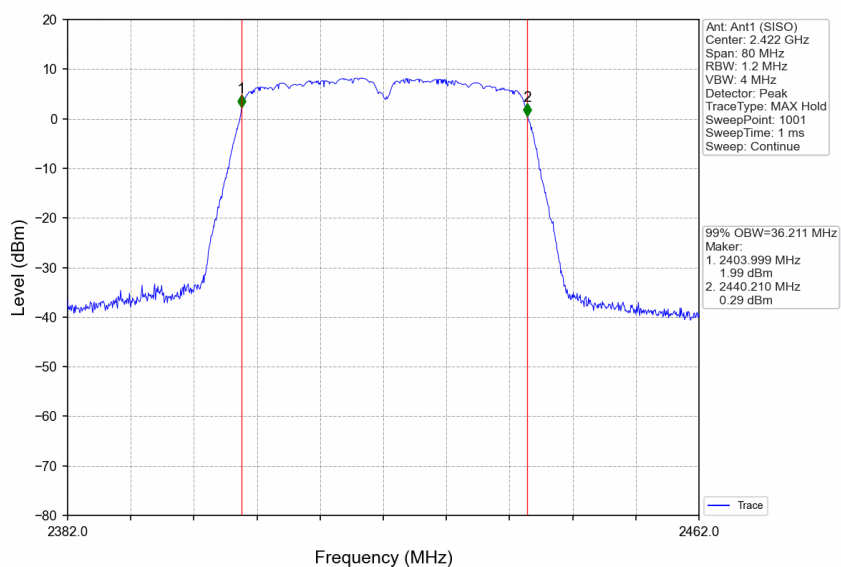
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



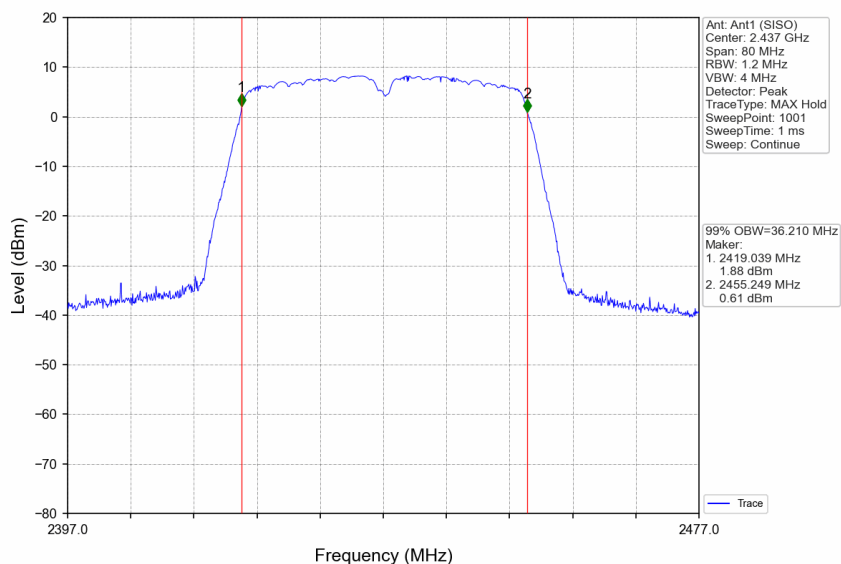
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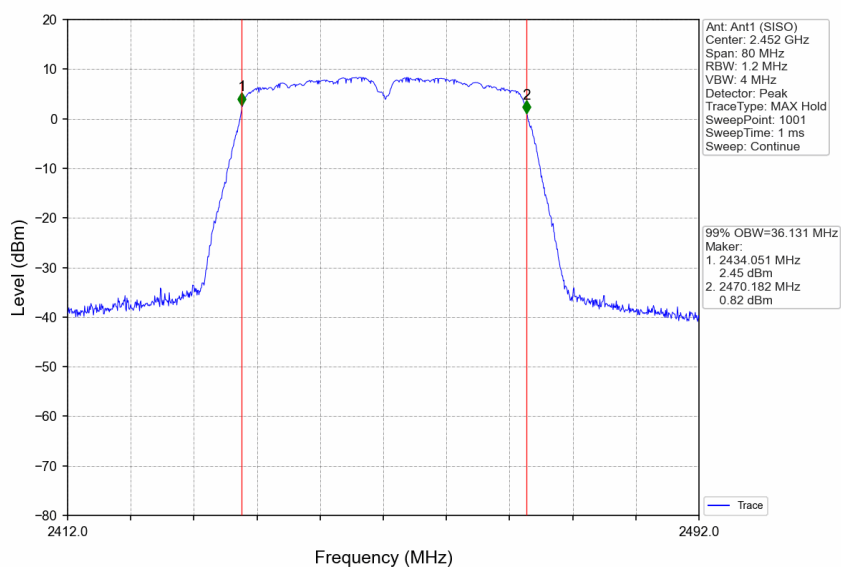
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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



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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	10.107	≥ 0.5	Pass
		2437	1	10.109	≥ 0.5	Pass
		2462	1	10.105	≥ 0.5	Pass
802.11g	SISO	2412	1	16.591	≥ 0.5	Pass
		2437	1	16.592	≥ 0.5	Pass
		2462	1	16.588	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.774	≥ 0.5	Pass
		2437	1	17.768	≥ 0.5	Pass
		2462	1	17.761	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.371	≥ 0.5	Pass
		2437	1	36.355	≥ 0.5	Pass
		2452	1	36.356	≥ 0.5	Pass



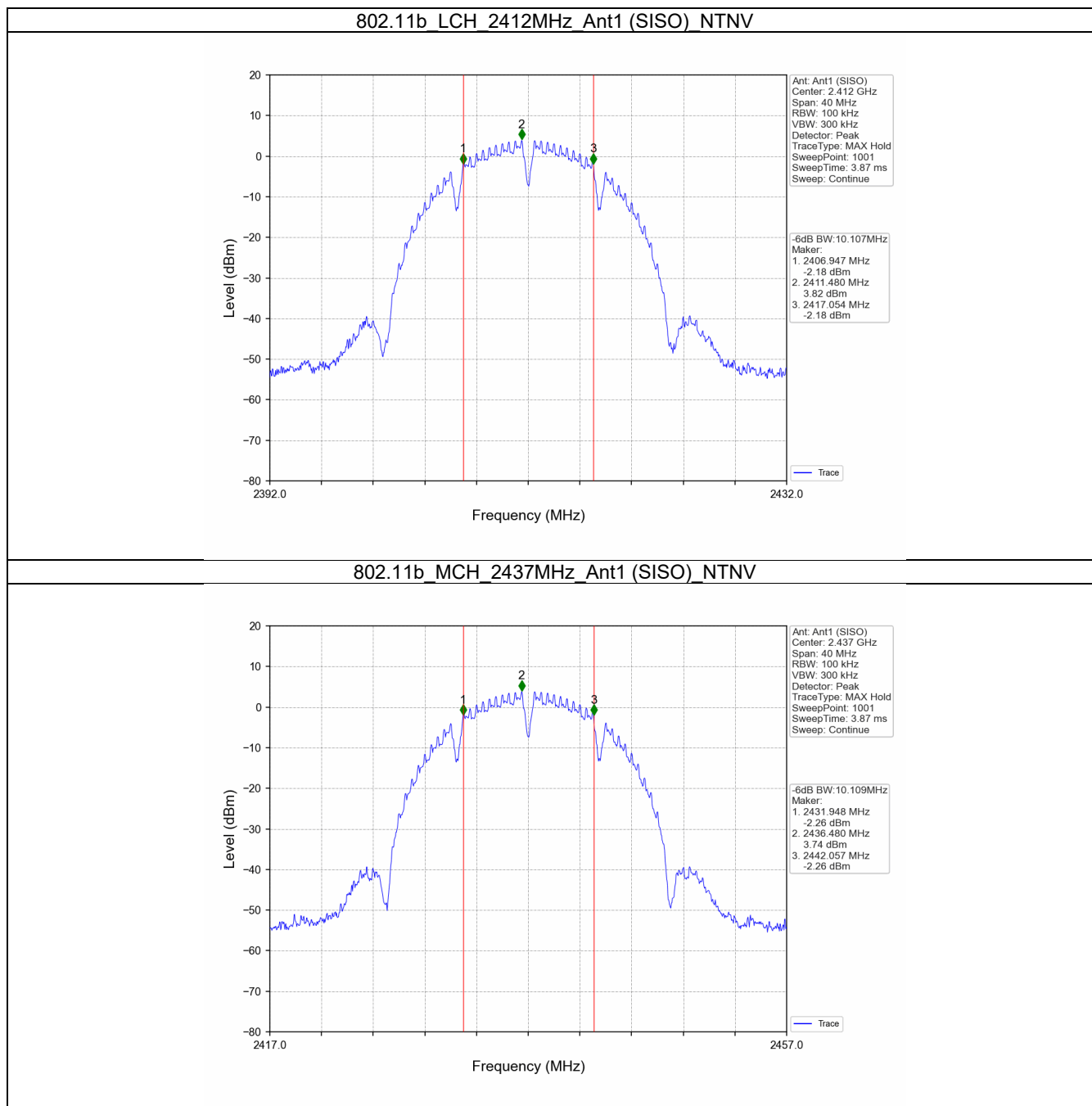
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2.2.2 Test Graph



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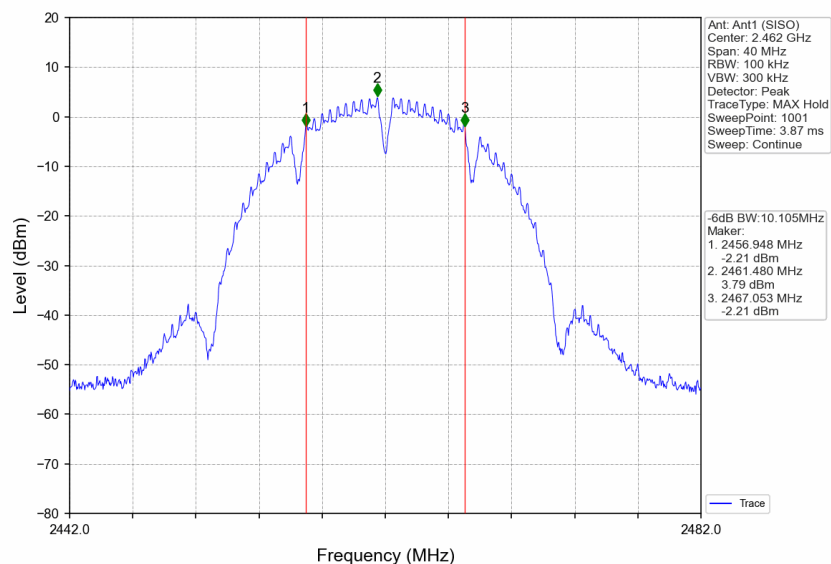
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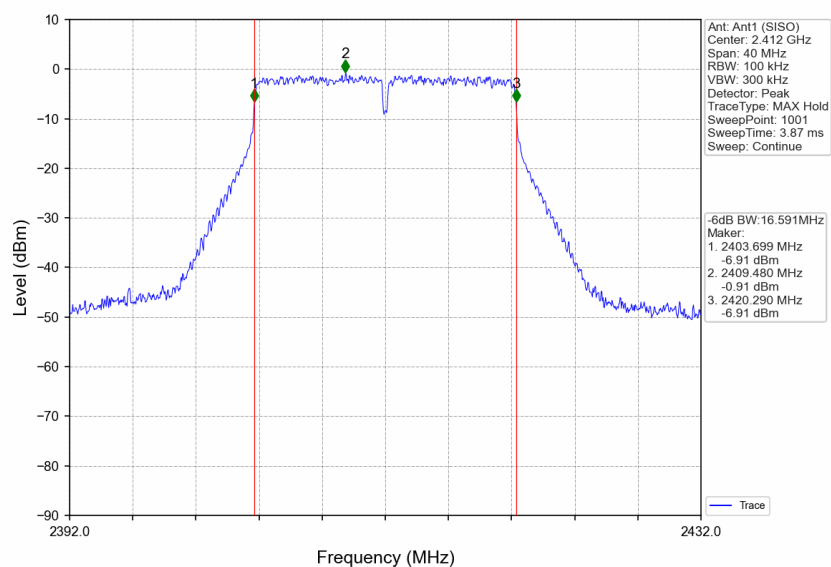
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



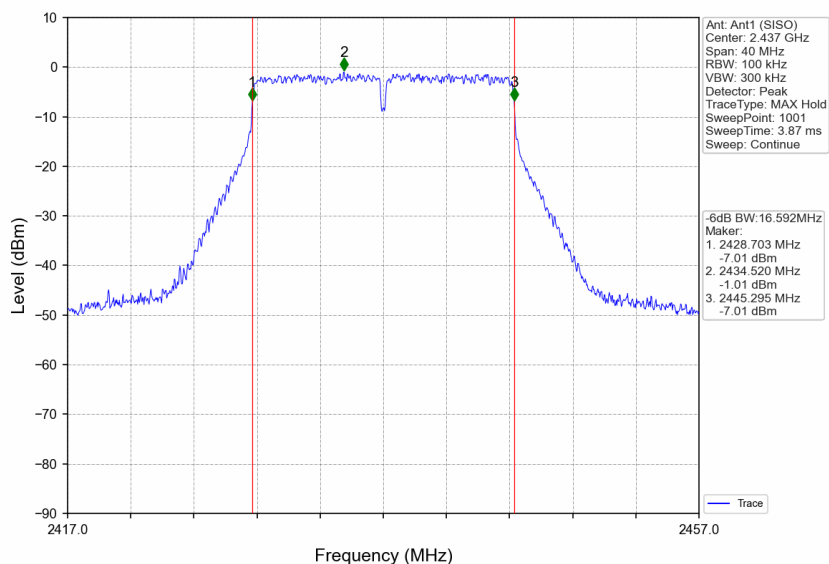
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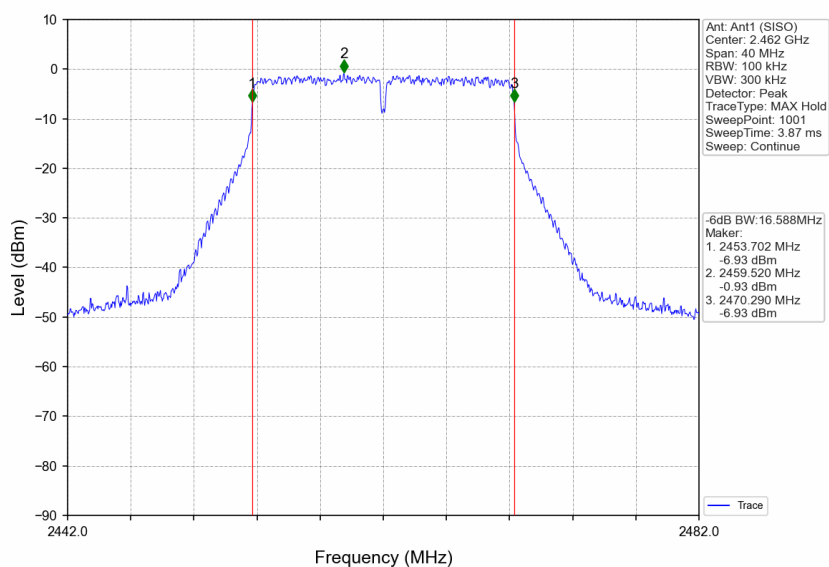
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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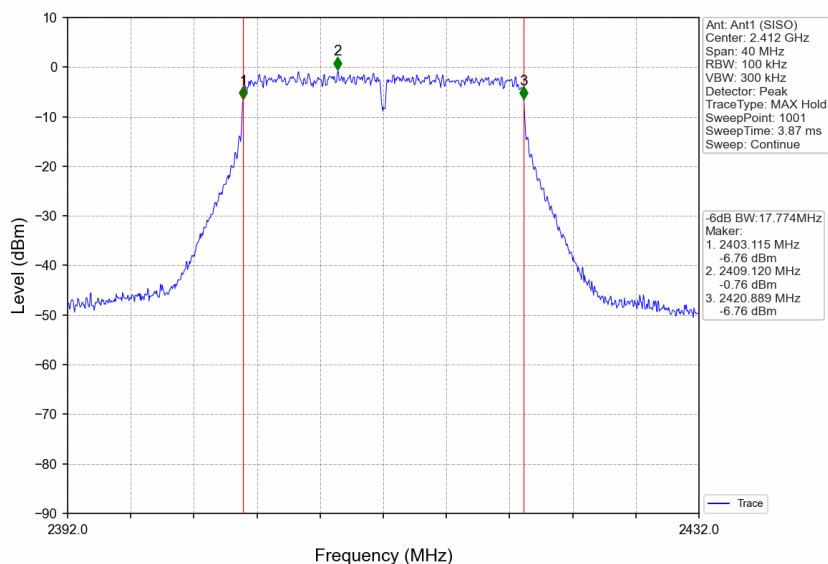
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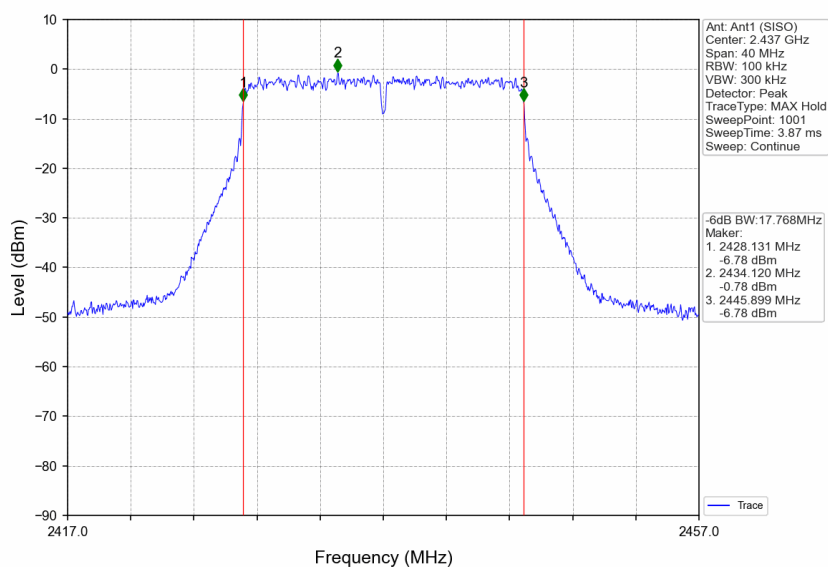
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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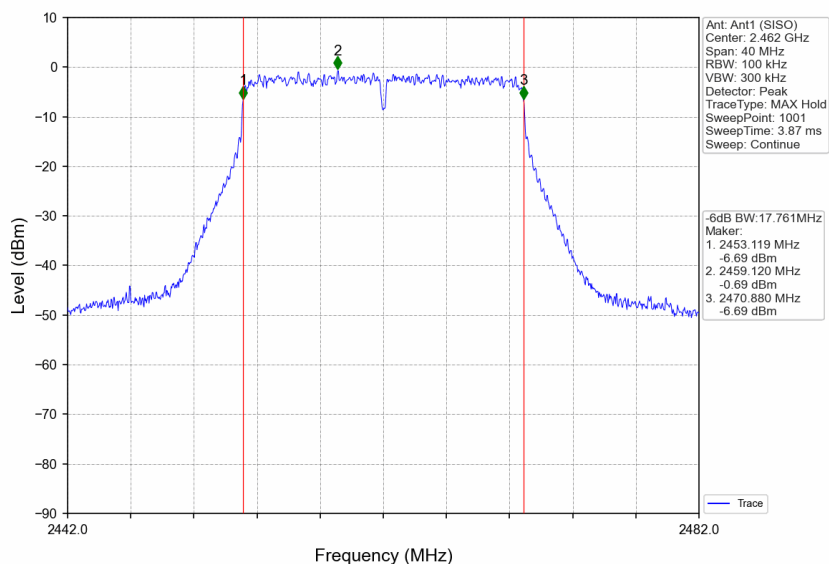
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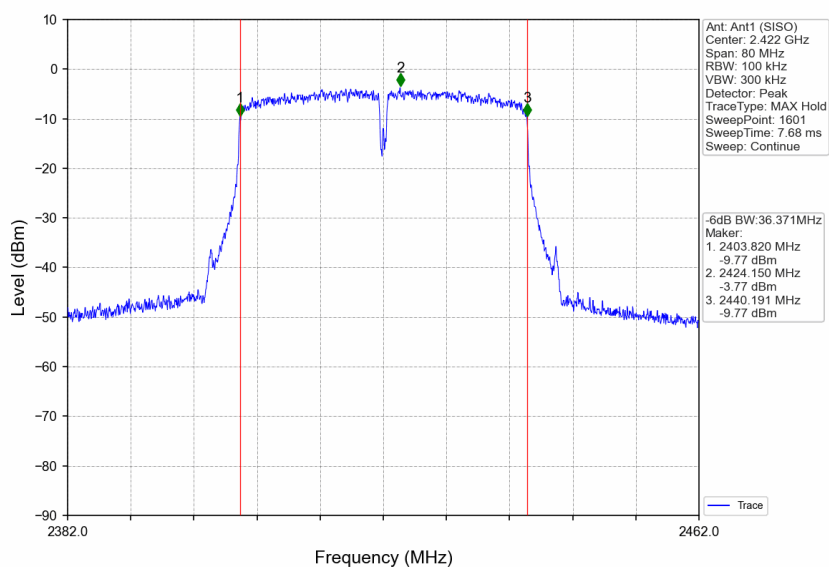
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



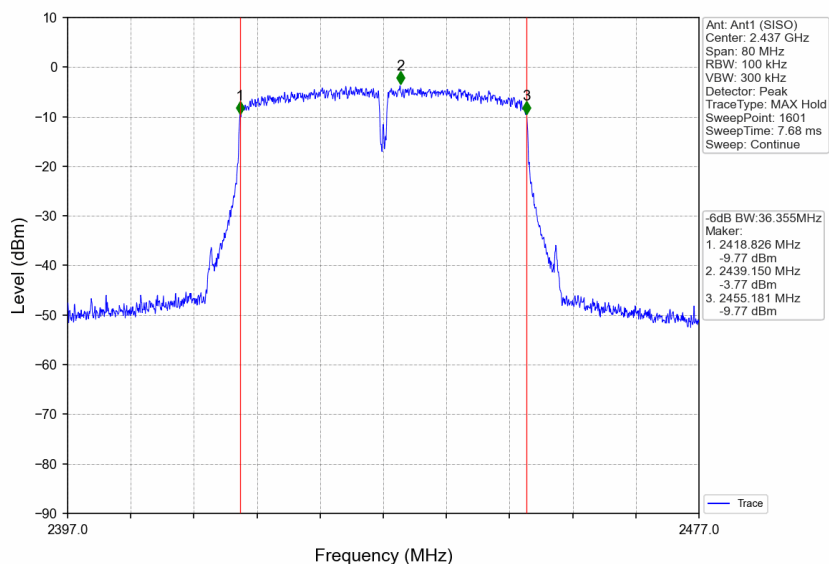
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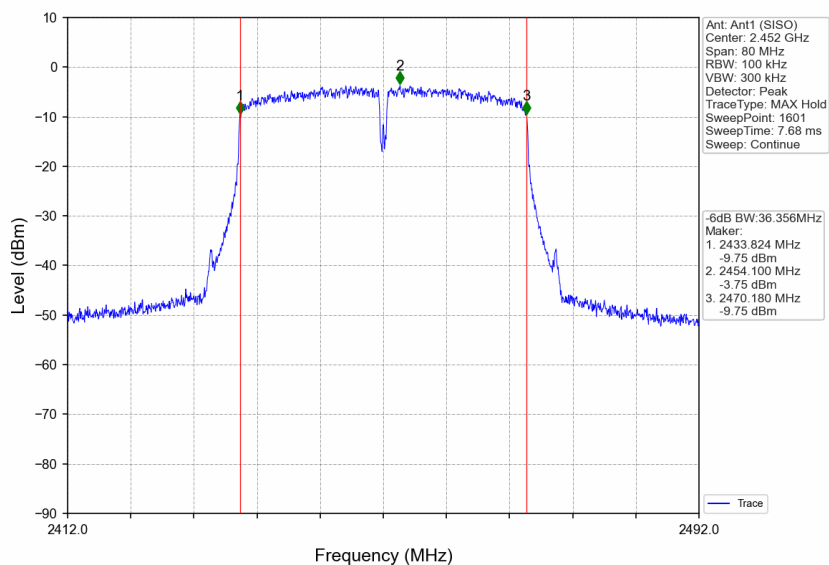
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTVN



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



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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	13.61	<=30	Pass
		2437	13.56	<=30	Pass
		2462	13.57	<=30	Pass
802.11g	SISO	2412	13.23	<=30	Pass
		2437	13.17	<=30	Pass
		2462	13.20	<=30	Pass
802.11n (HT20)	SISO	2412	13.11	<=30	Pass
		2437	13.09	<=30	Pass
		2462	13.12	<=30	Pass
802.11n (HT40)	SISO	2422	13.04	<=30	Pass
		2437	13.06	<=30	Pass
		2452	13.10	<=30	Pass

Note1: Antenna Gain: Ant1: 4.50dBi;



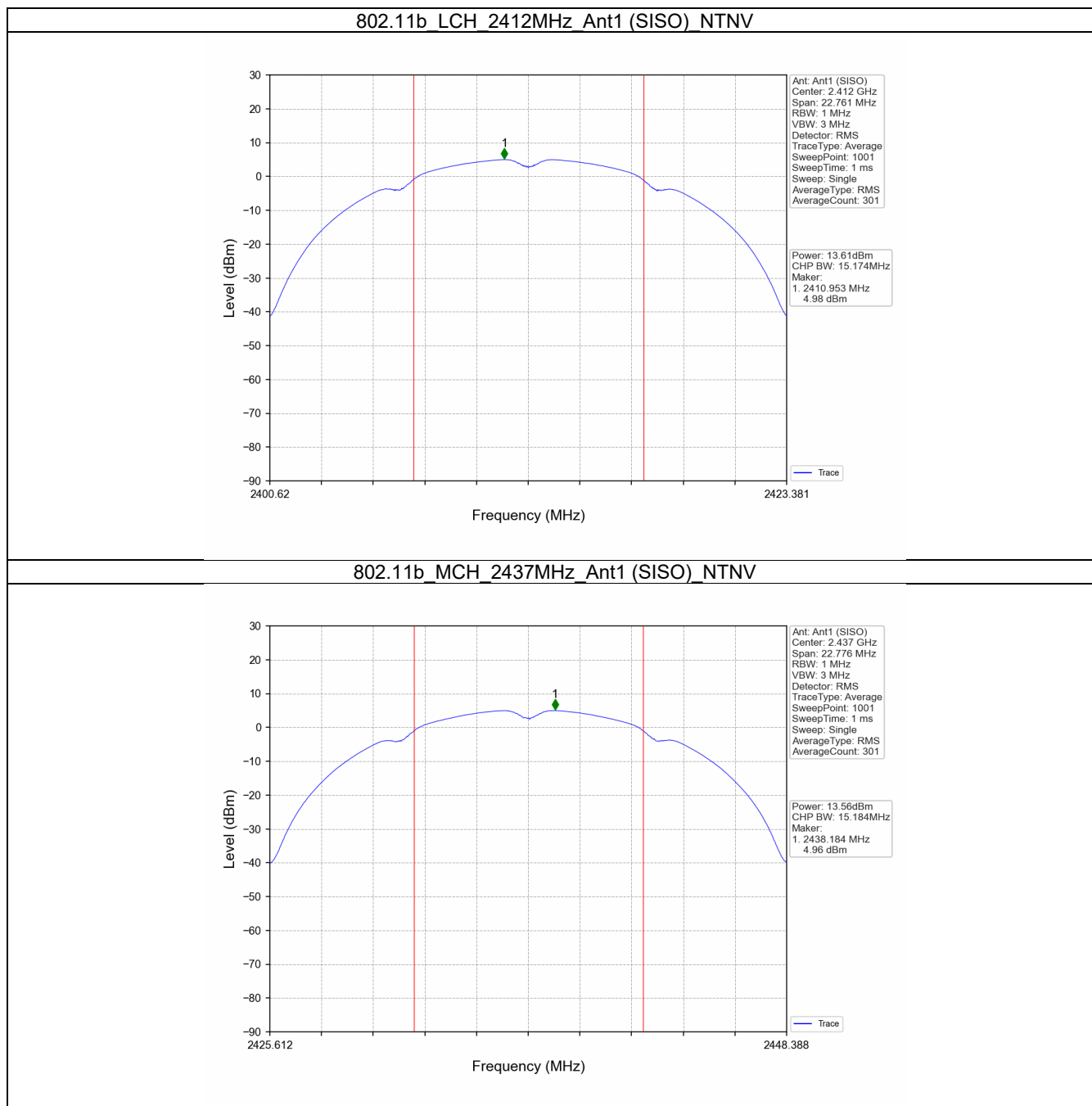
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3.1.2 Test Graph



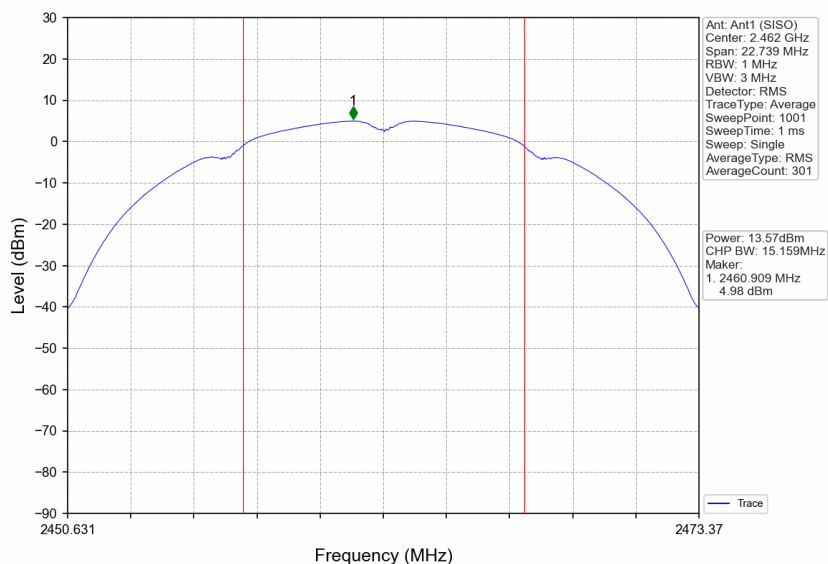
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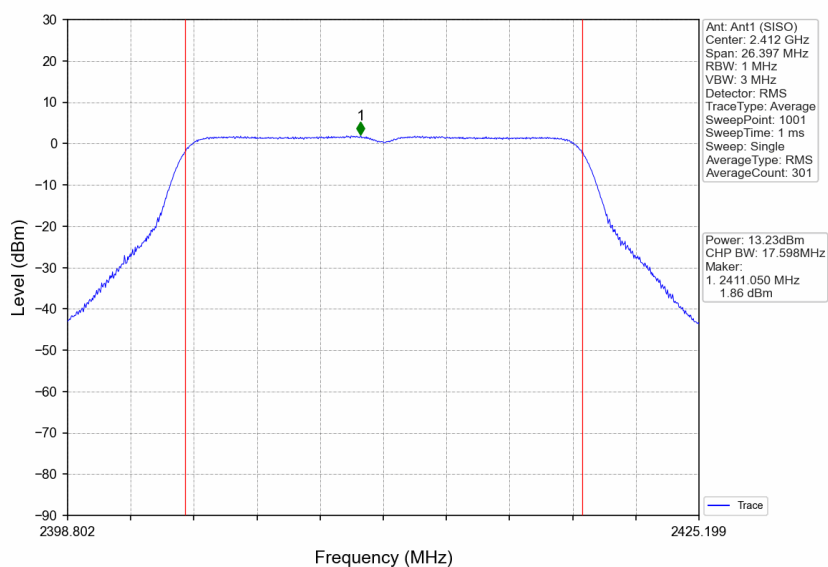
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



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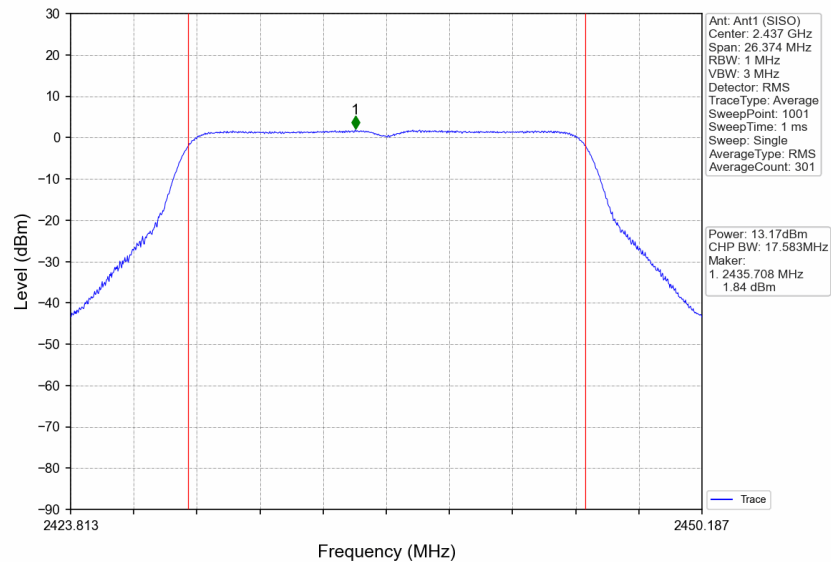
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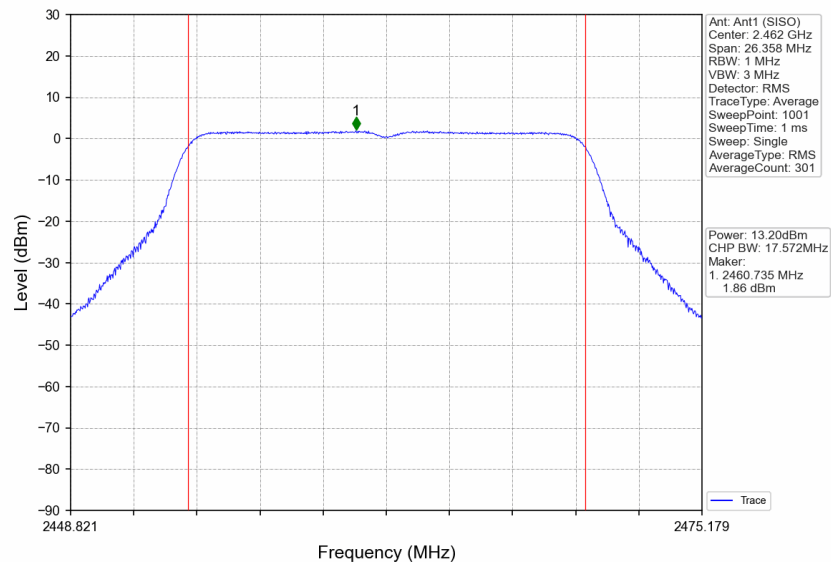
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802.11g MCH 2437MHz Ant1 (SISO) NTNV



802.11g HCH 2462MHz Ant1 (SISO) NTNV



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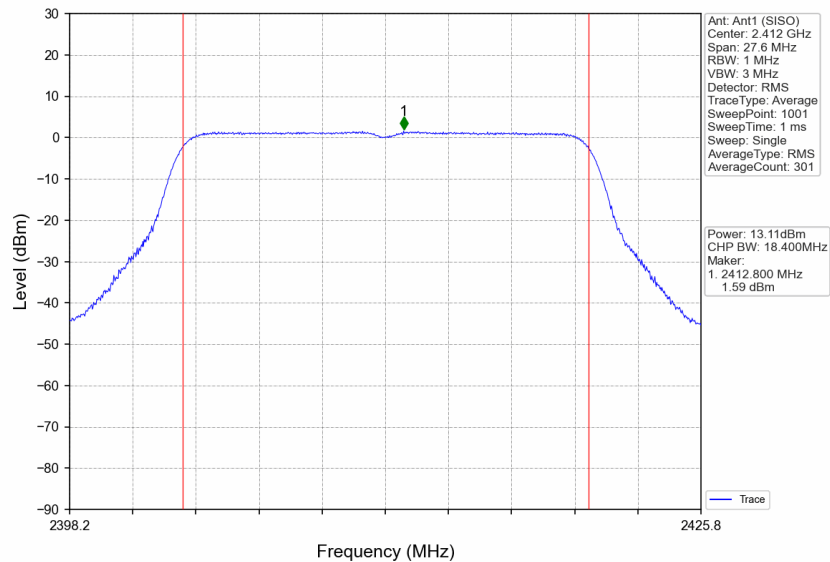
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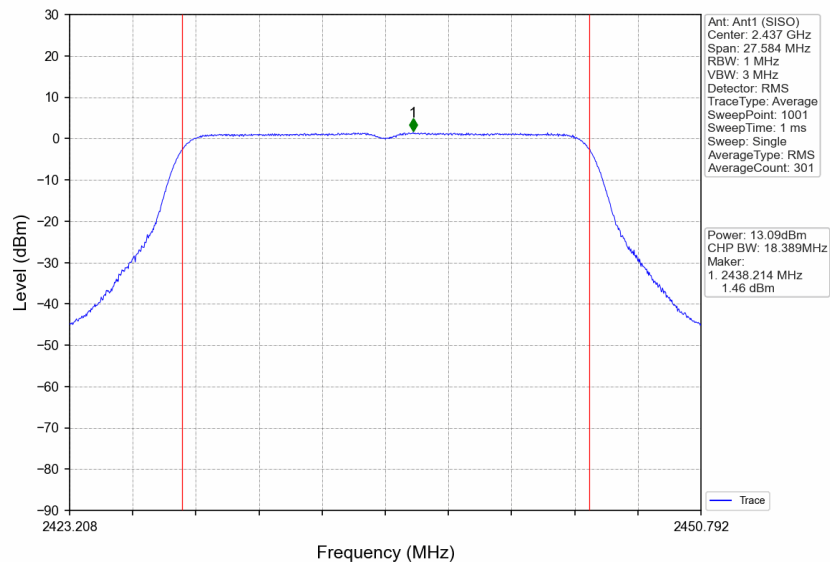
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



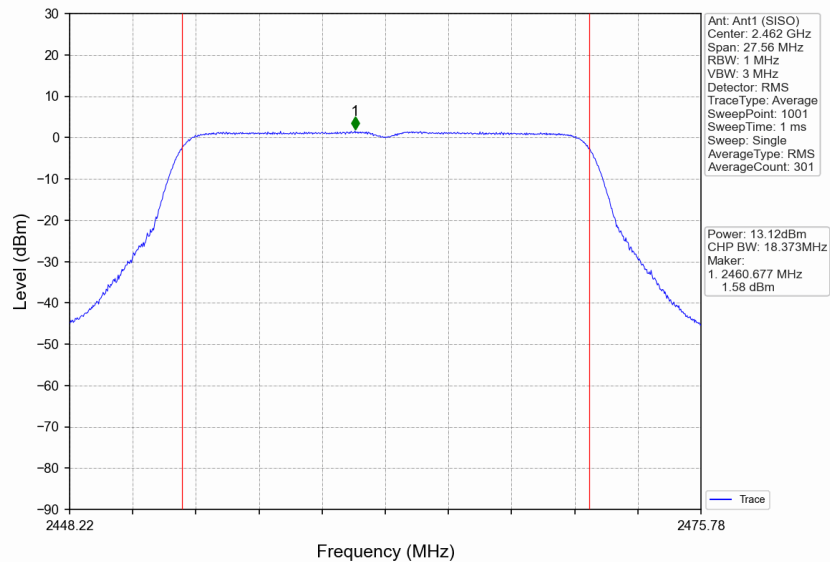
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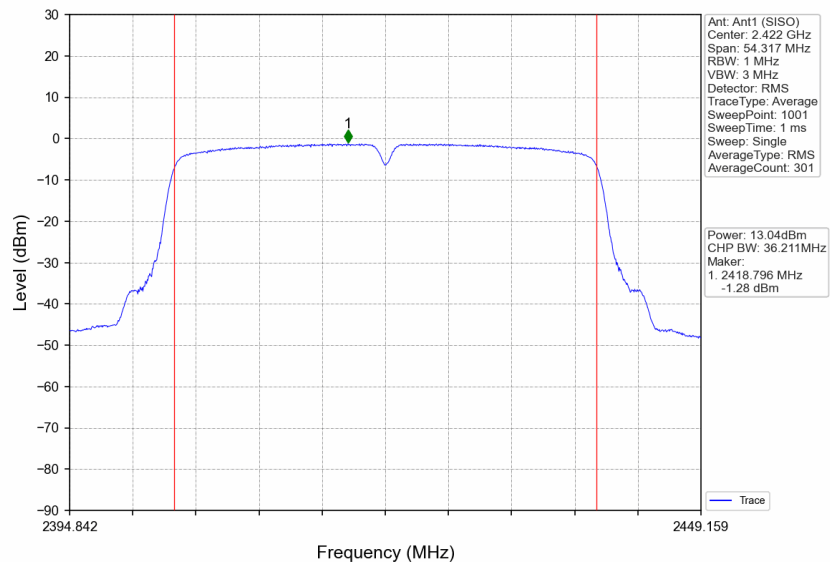
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



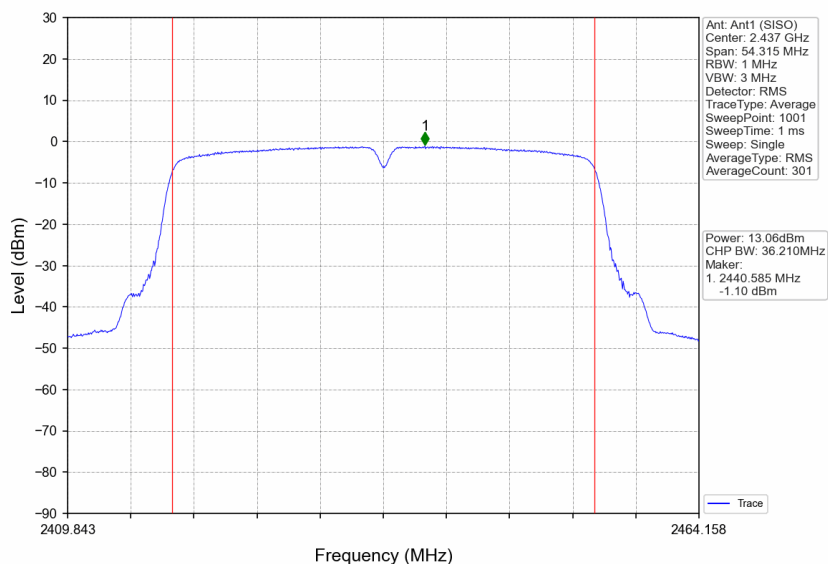
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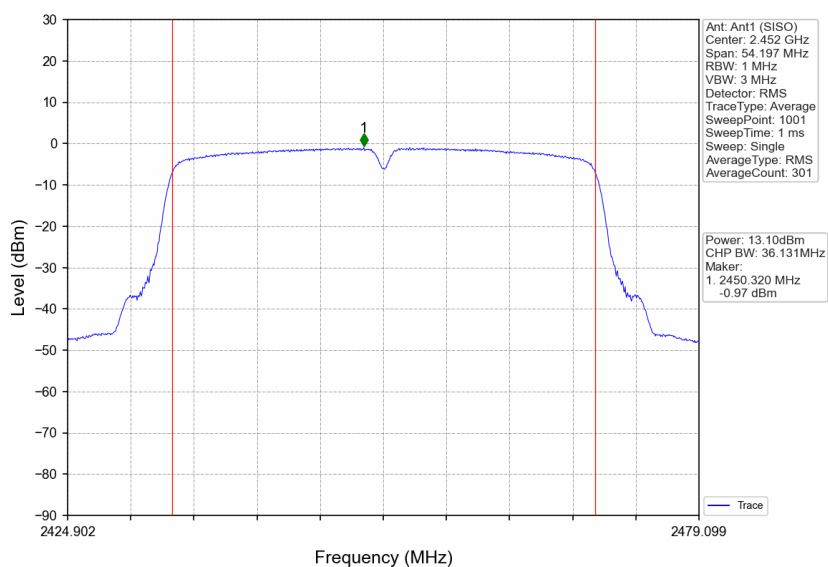
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTVN



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



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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	-16.21	<=8	Pass
		2437	-16.26	<=8	Pass
		2462	-16.26	<=8	Pass
802.11g	SISO	2412	-15.15	<=8	Pass
		2437	-15.43	<=8	Pass
		2462	-15.16	<=8	Pass
802.11n (HT20)	SISO	2412	-14.78	<=8	Pass
		2437	-14.94	<=8	Pass
		2462	-14.55	<=8	Pass
802.11n (HT40)	SISO	2422	-14.82	<=8	Pass
		2437	-14.32	<=8	Pass
		2452	-16.15	<=8	Pass

Note1: Antenna Gain: Ant1: 4.50dBi;



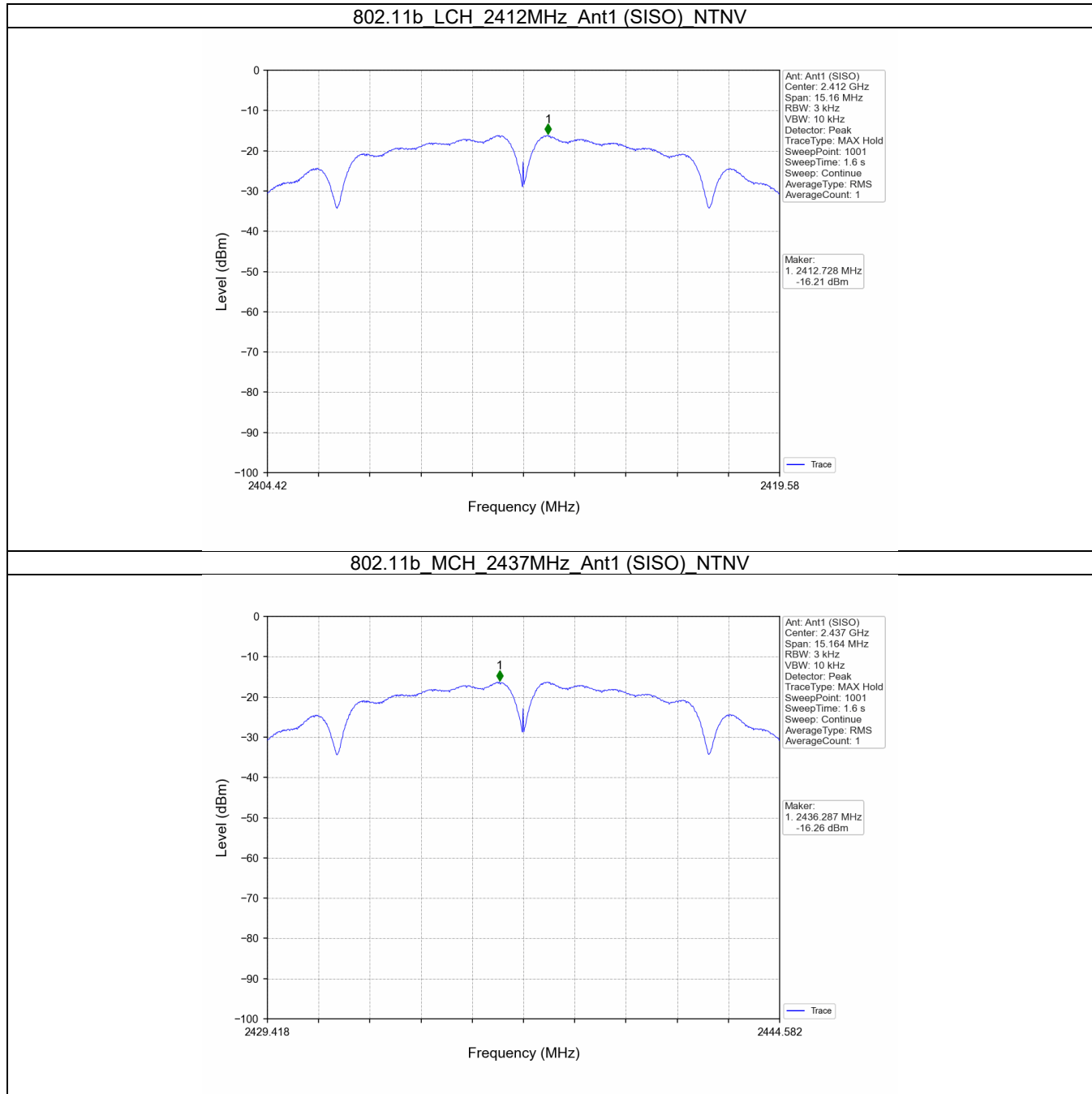
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4.1.2 Test Graph



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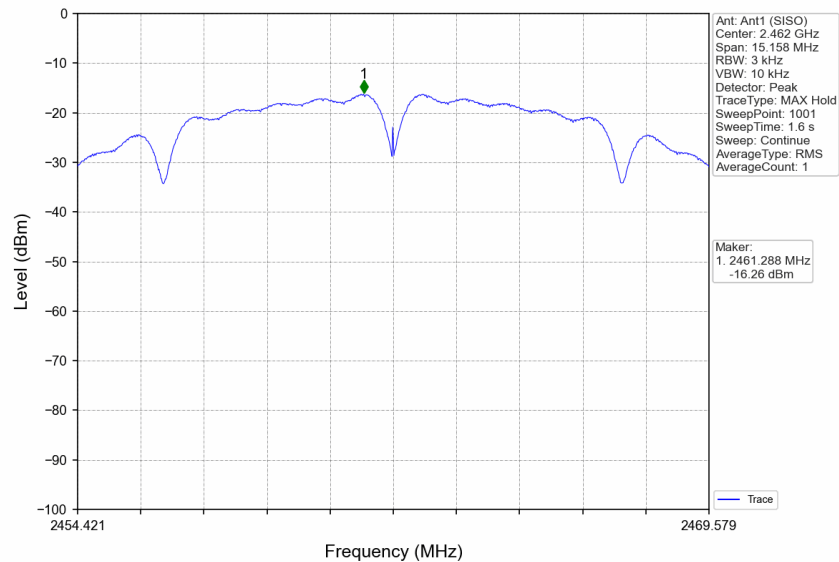
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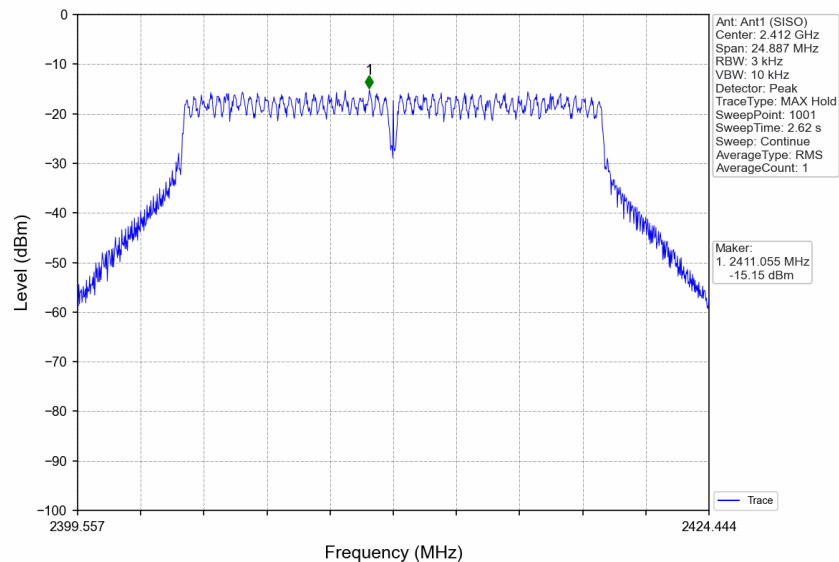
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



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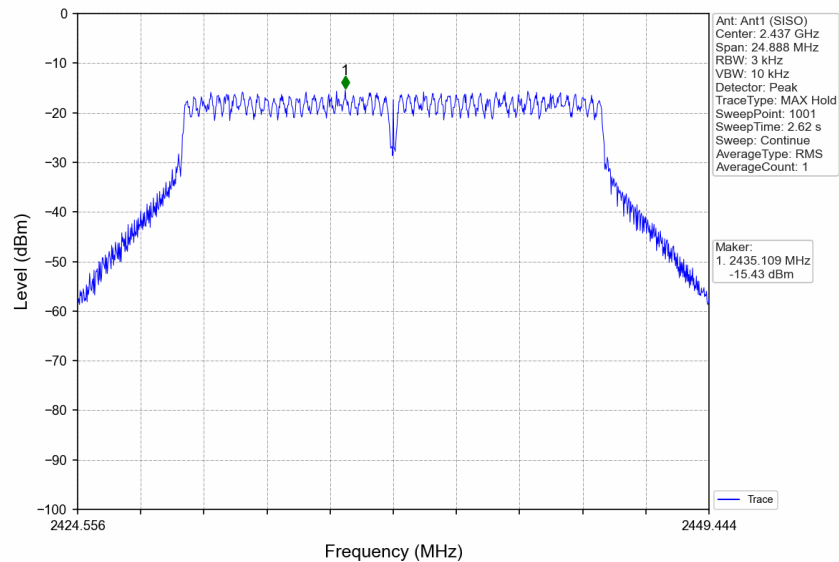
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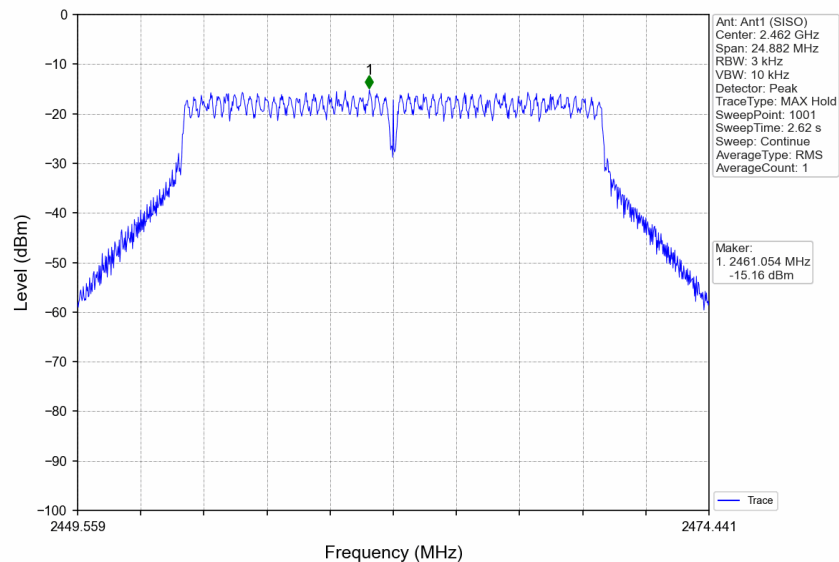


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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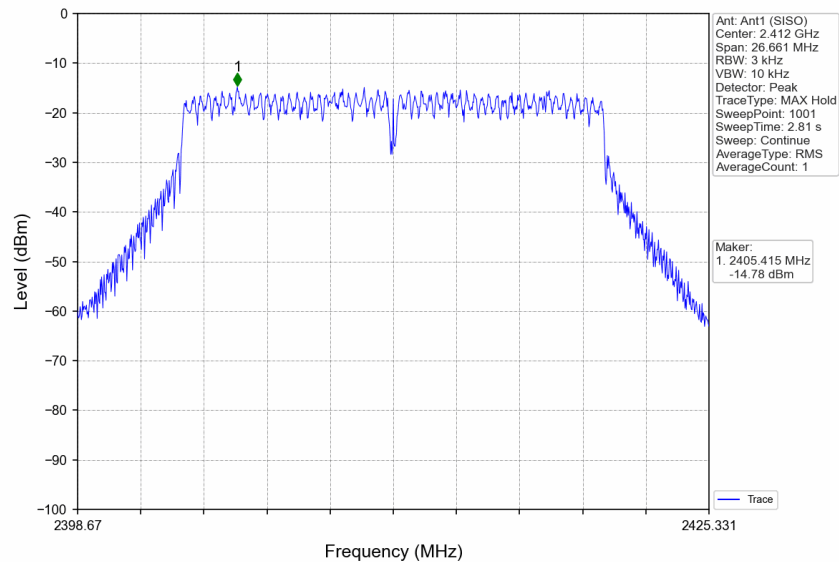
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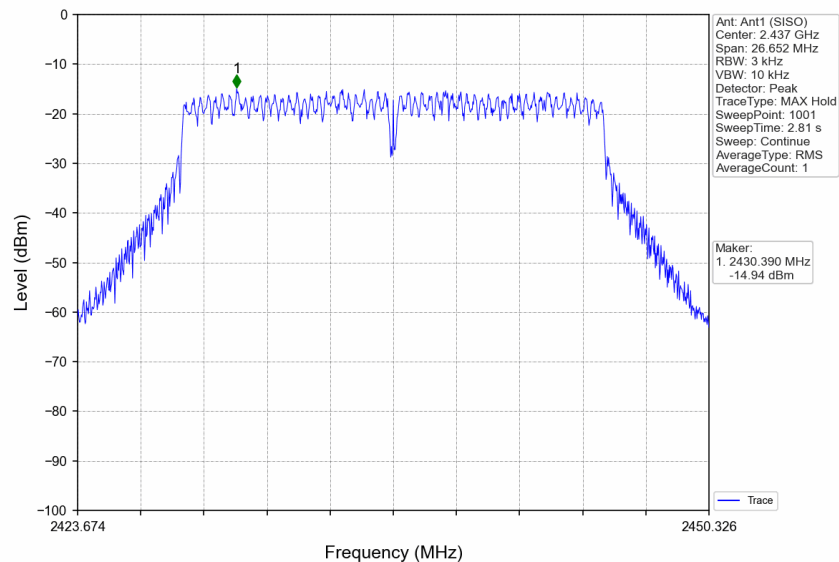
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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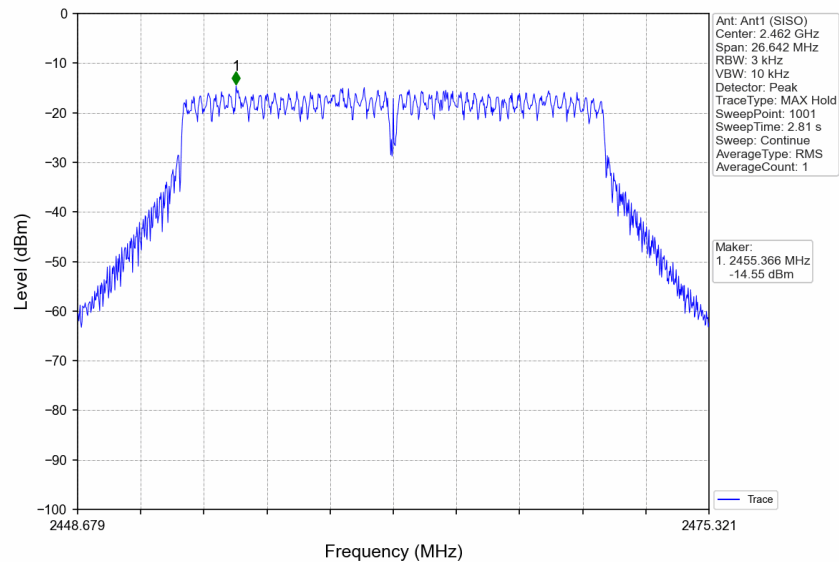
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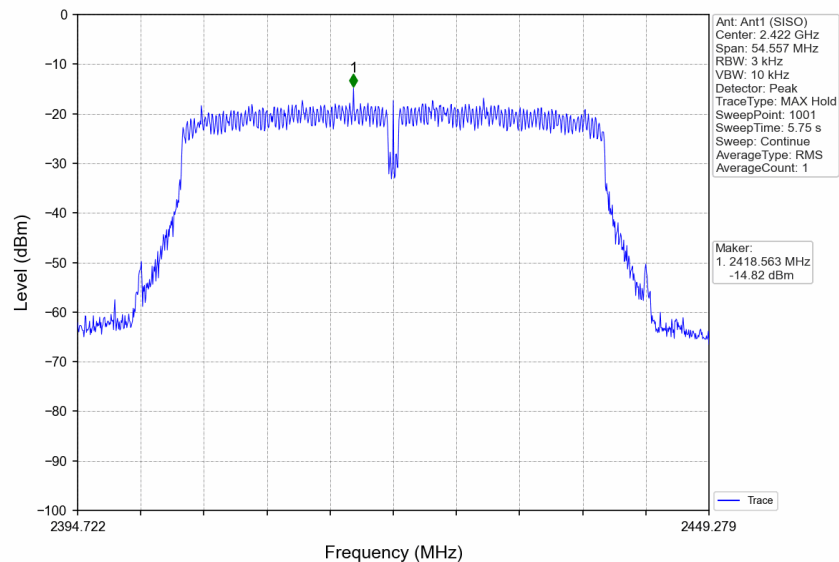
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



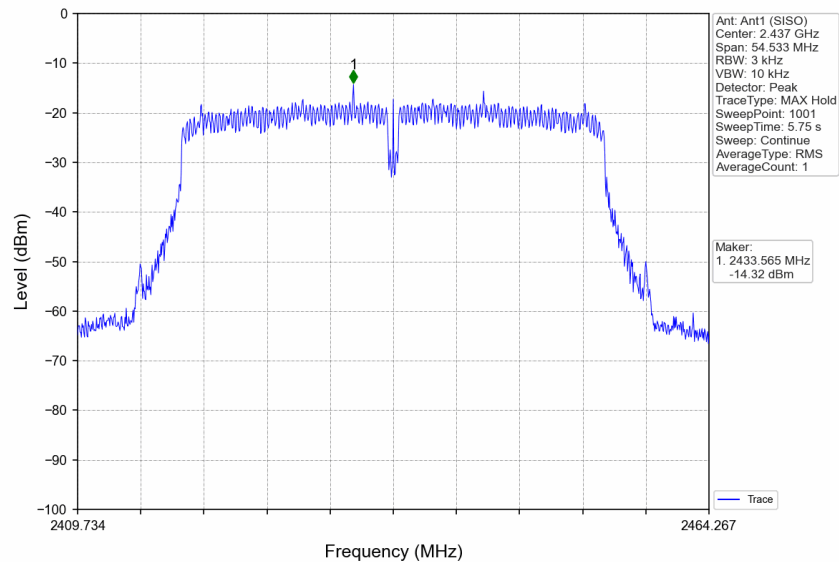
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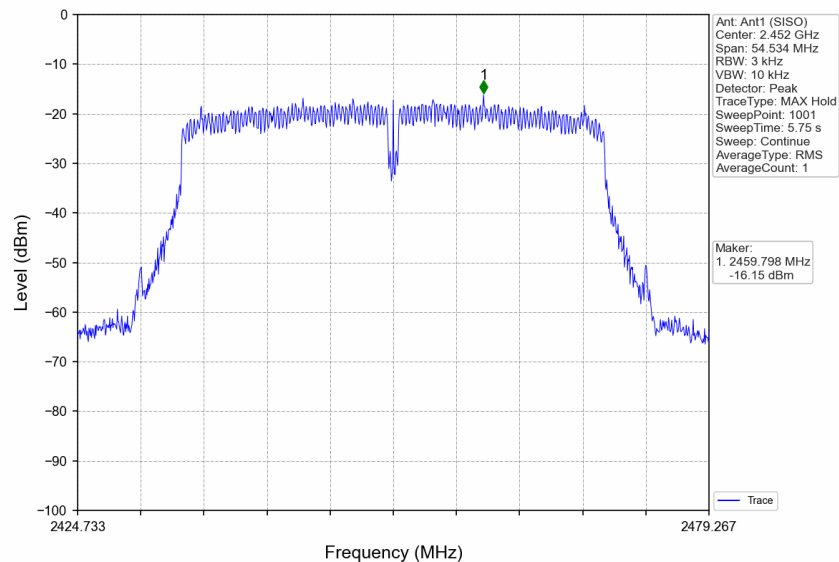
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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



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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	3.63
		2437	1	3.53
		2462	1	3.59
802.11g	SISO	2412	1	-1.01
		2437	1	-1.08
		2462	1	-0.93
802.11n (HT20)	SISO	2412	1	-0.96
		2437	1	-0.76
		2462	1	-0.81
802.11n (HT40)	SISO	2422	1	-3.79
		2437	1	-3.73
		2452	1	-3.73

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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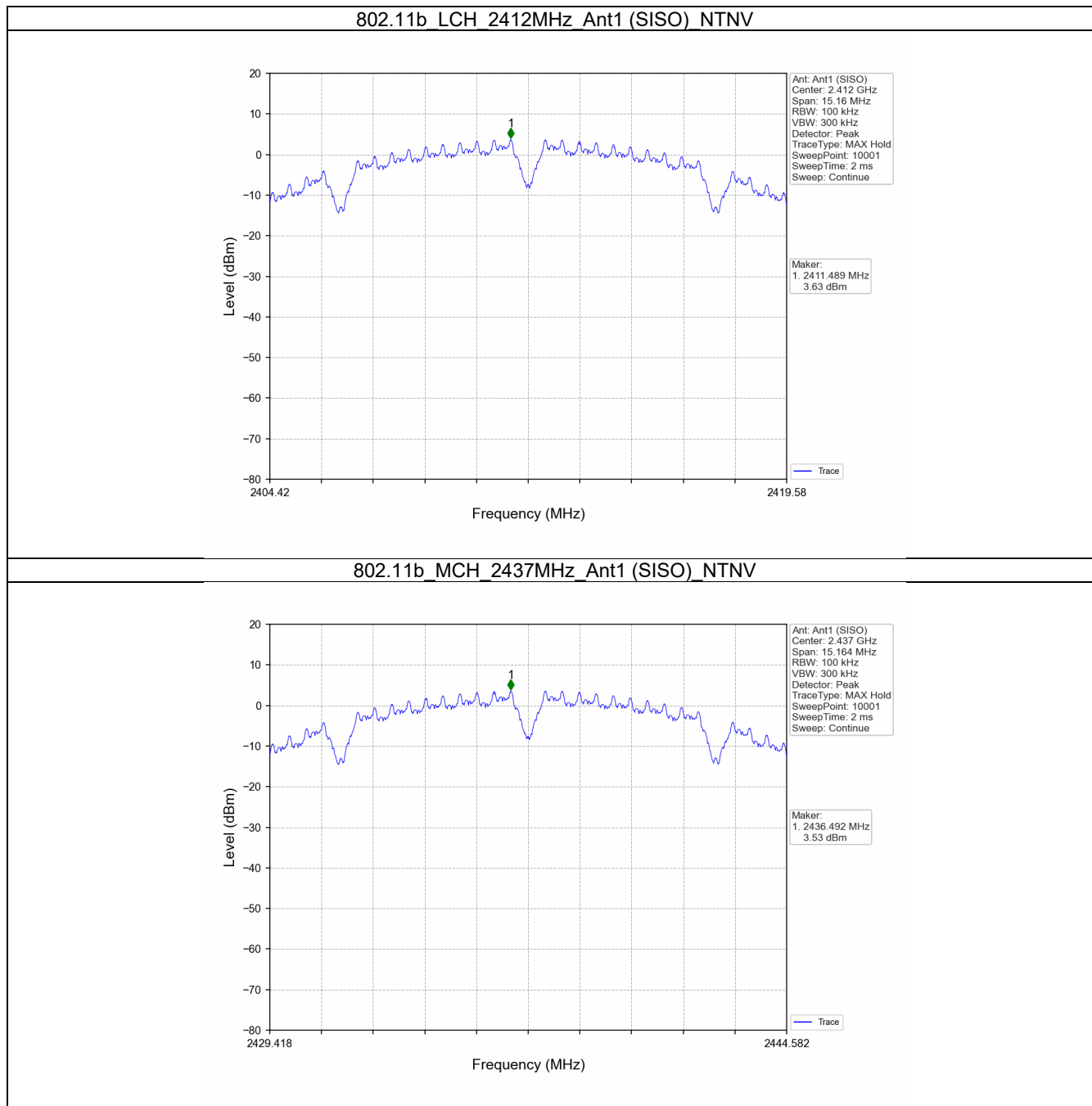
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5.1.2 Test Graph



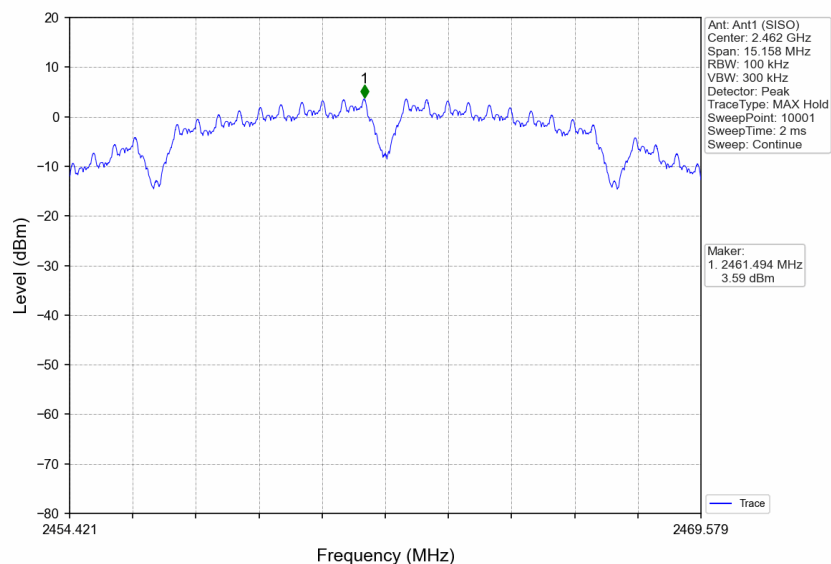
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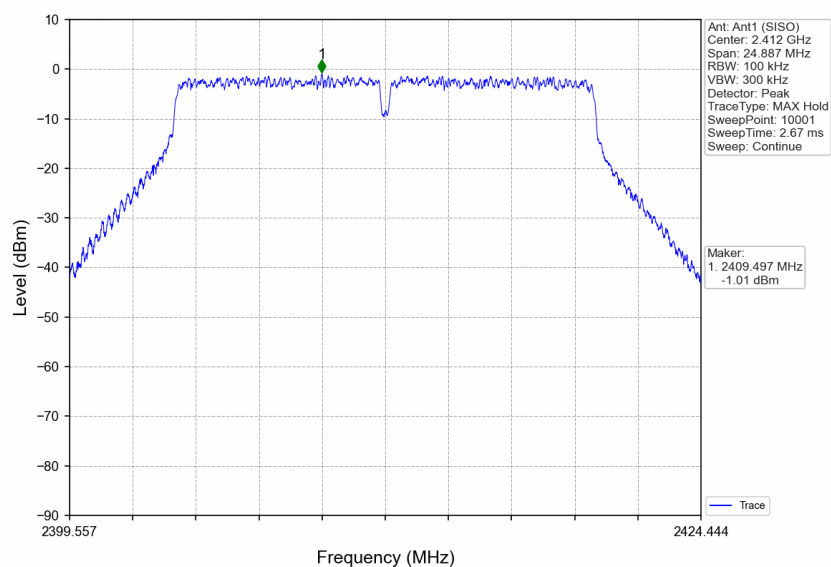
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802.11b HCH 2462MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant1 (SISO) NTNV



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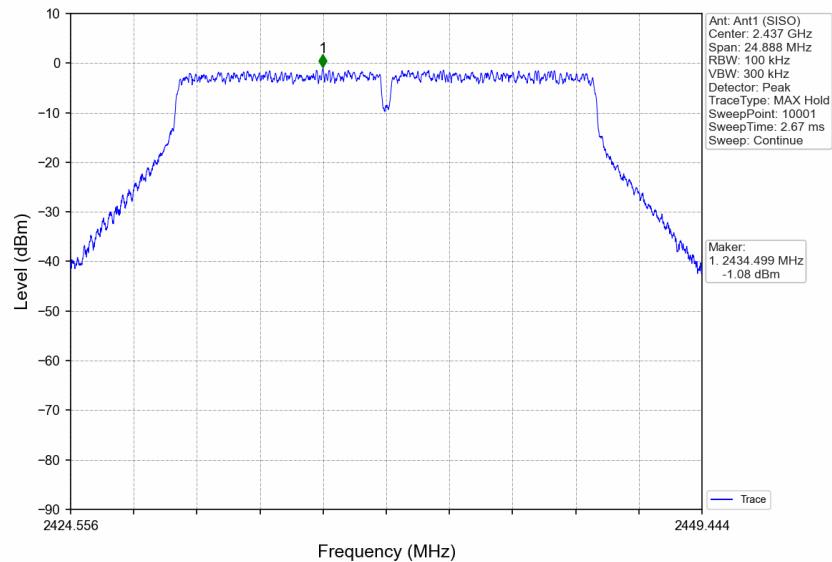
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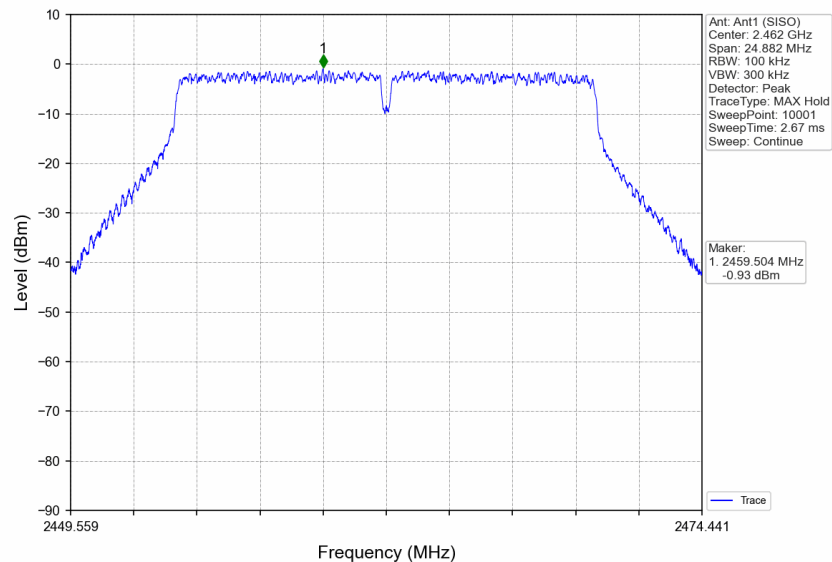
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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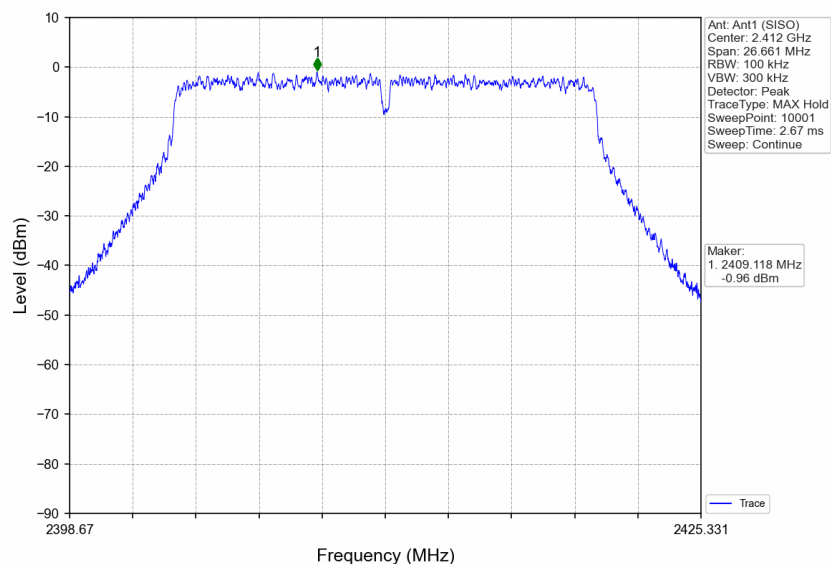
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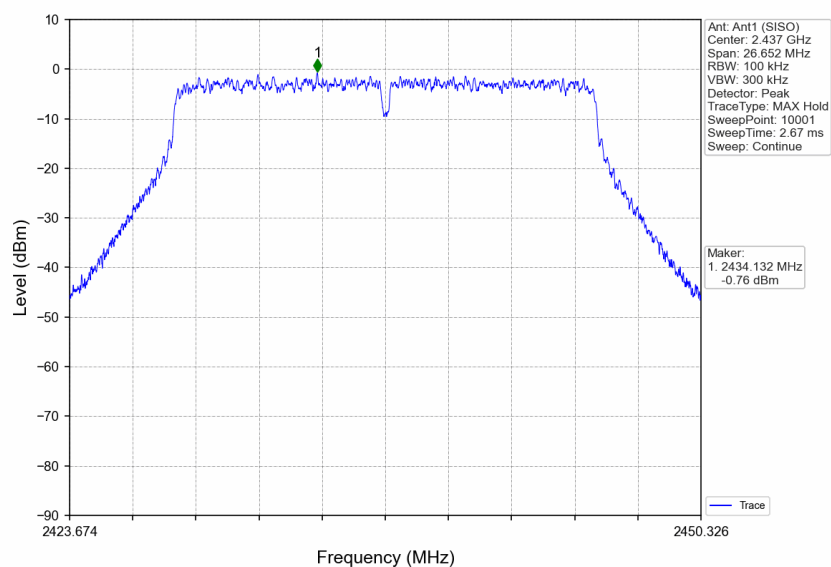
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



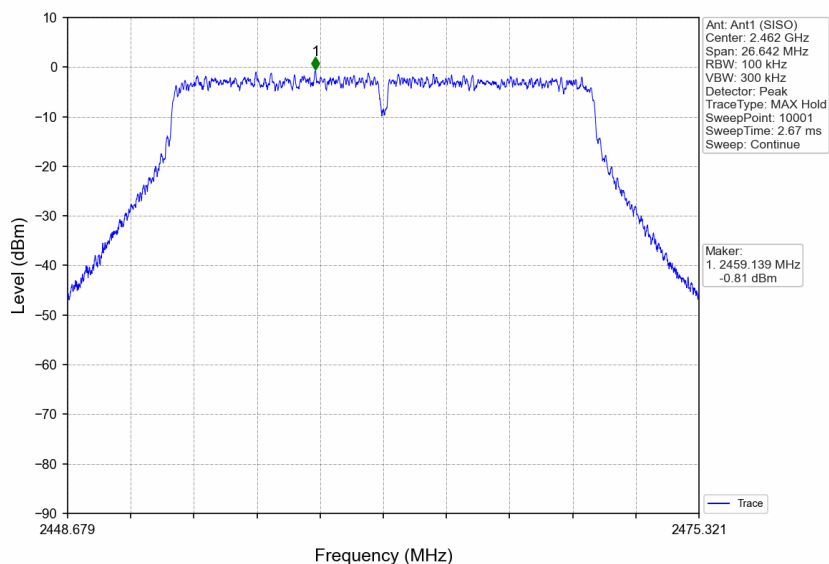
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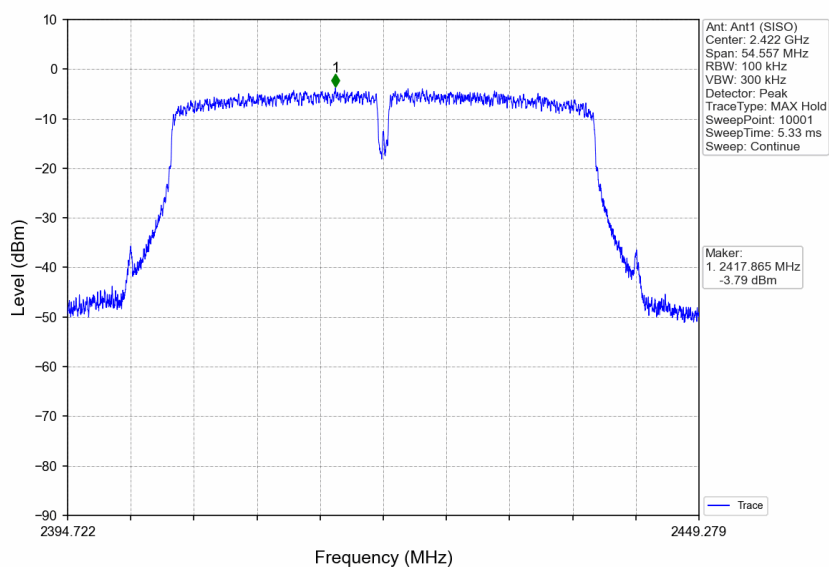
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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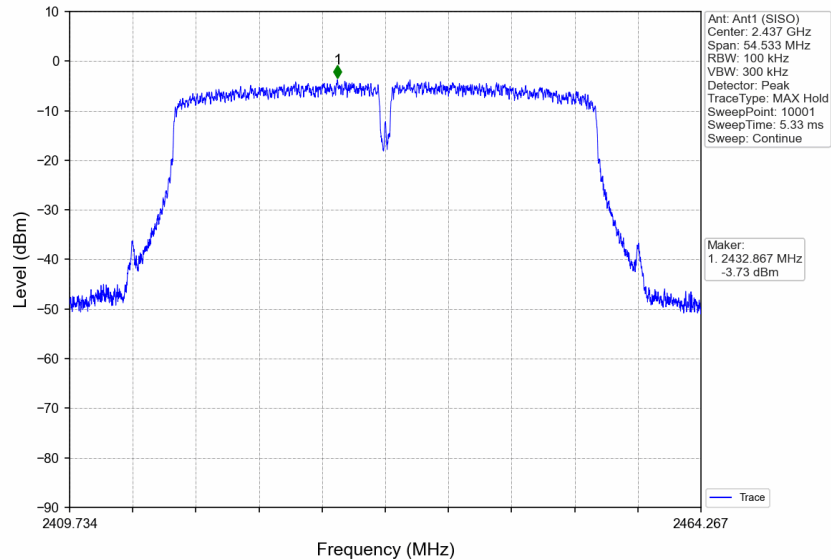
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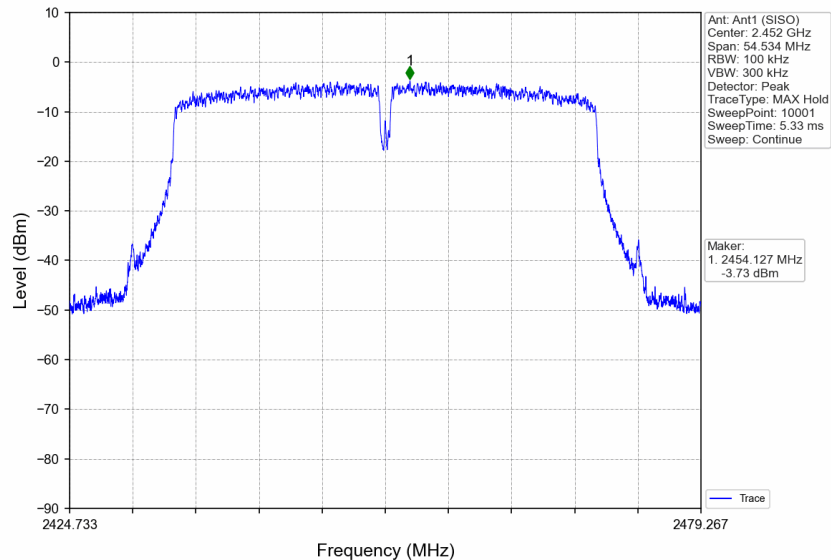
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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



5.2 CSE

5.2.1 Test Result



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Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.63	-26.37	Pass
		2437	1	3.63	-26.37	Pass
		2462	1	3.63	-26.37	Pass
802.11g	SISO	2412	1	-0.93	-30.93	Pass
		2437	1	-0.93	-30.93	Pass
		2462	1	-0.93	-30.93	Pass
802.11n (HT20)	SISO	2412	1	-0.76	-30.76	Pass
		2437	1	-0.76	-30.76	Pass
		2462	1	-0.76	-30.76	Pass
802.11n (HT40)	SISO	2422	1	-3.73	-33.73	Pass
		2437	1	-3.73	-33.73	Pass
		2452	1	-3.73	-33.73	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.



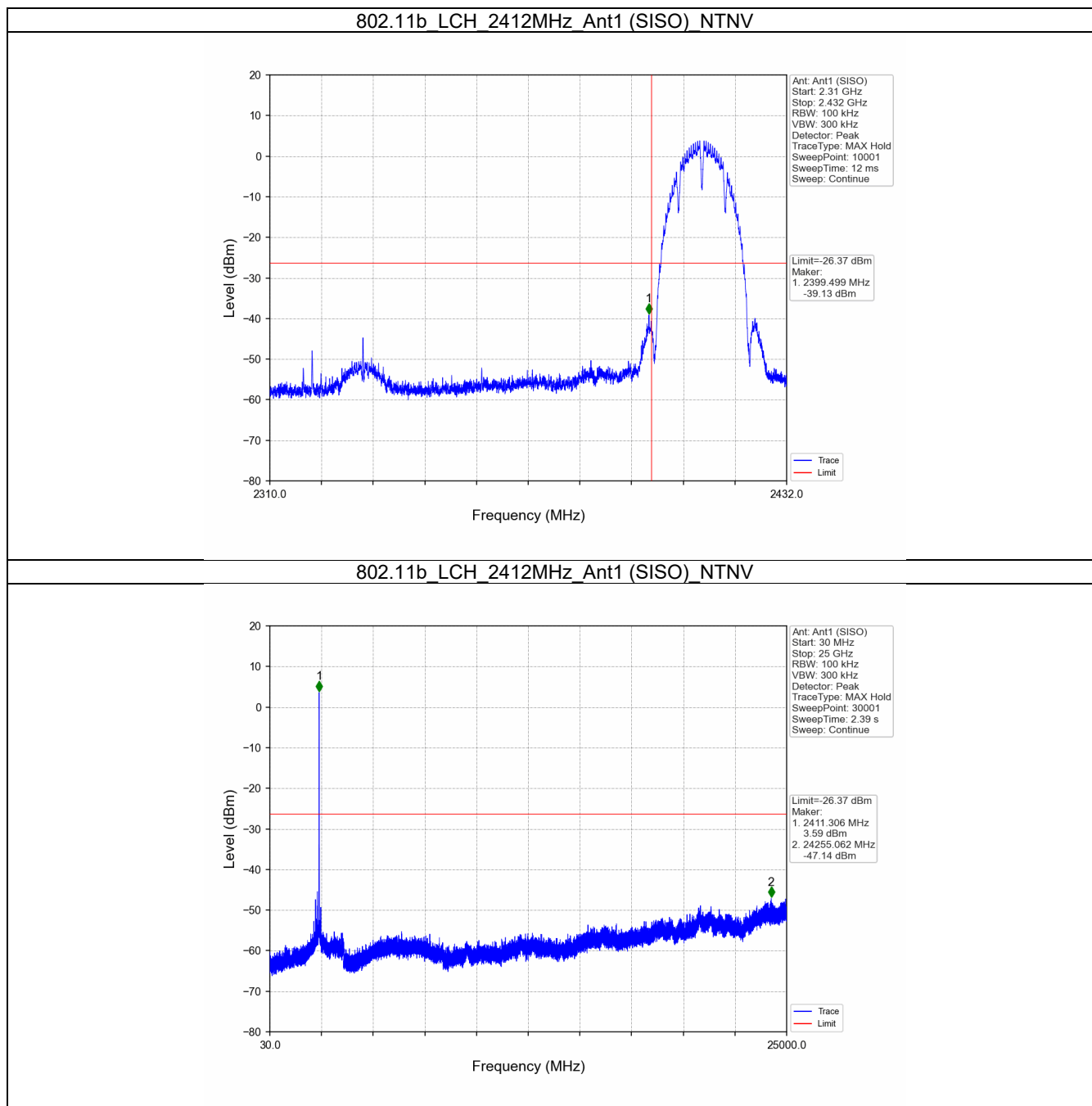
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5.2.2 Test Graph



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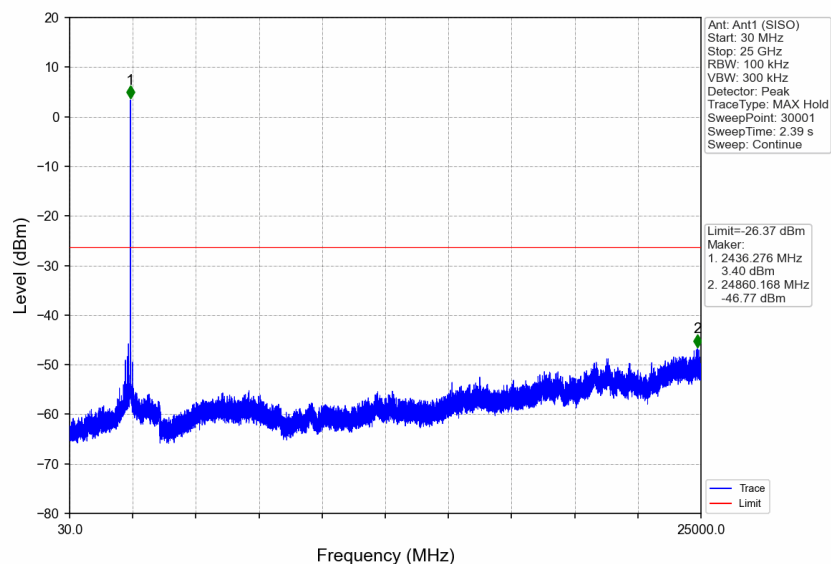
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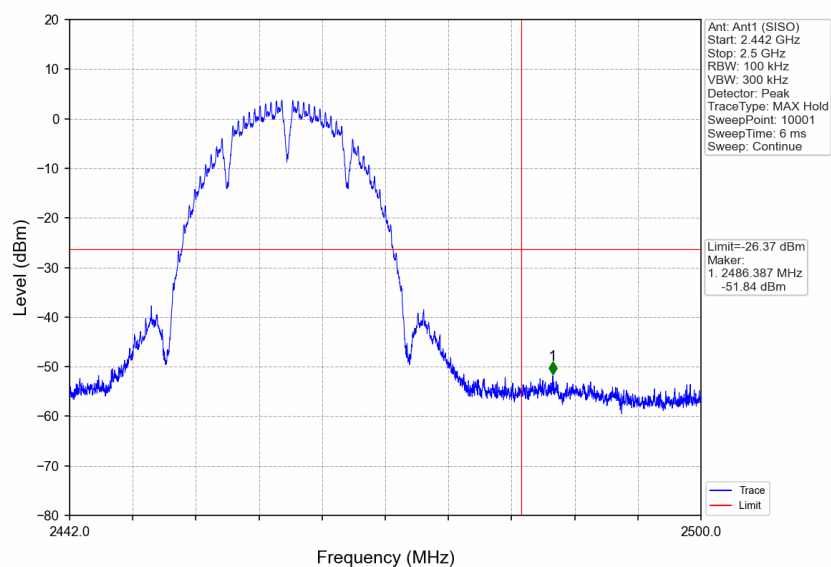
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802.11b MCH 2437MHz Ant1 (SISO) NTNV



802.11b_HCH_2462MHz_Ant1 (SISO) NTNV



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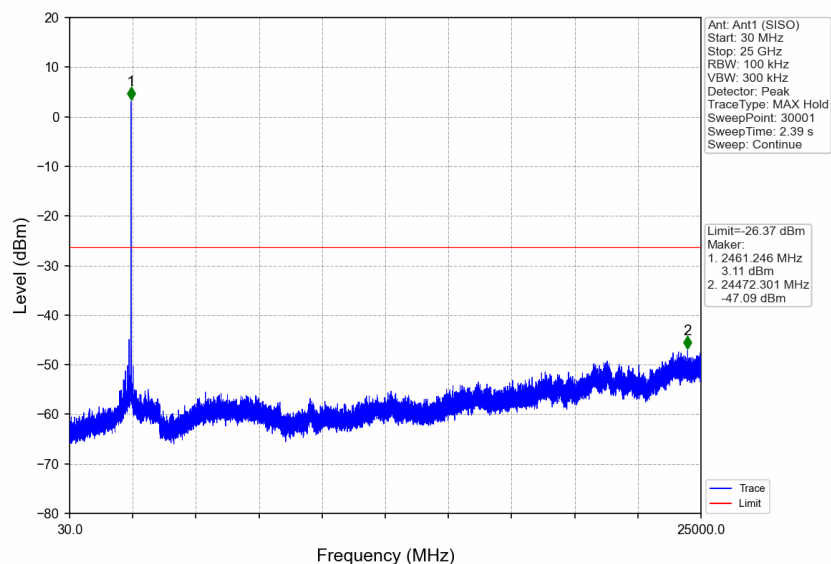
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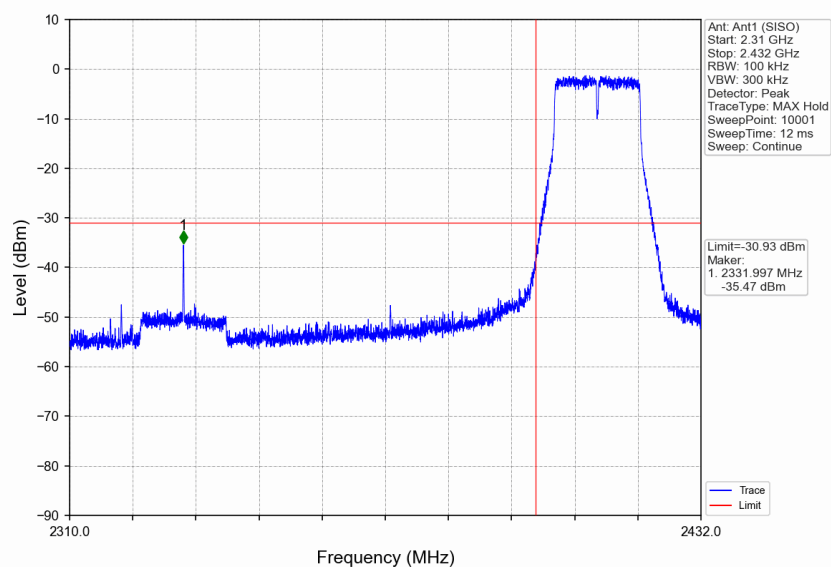
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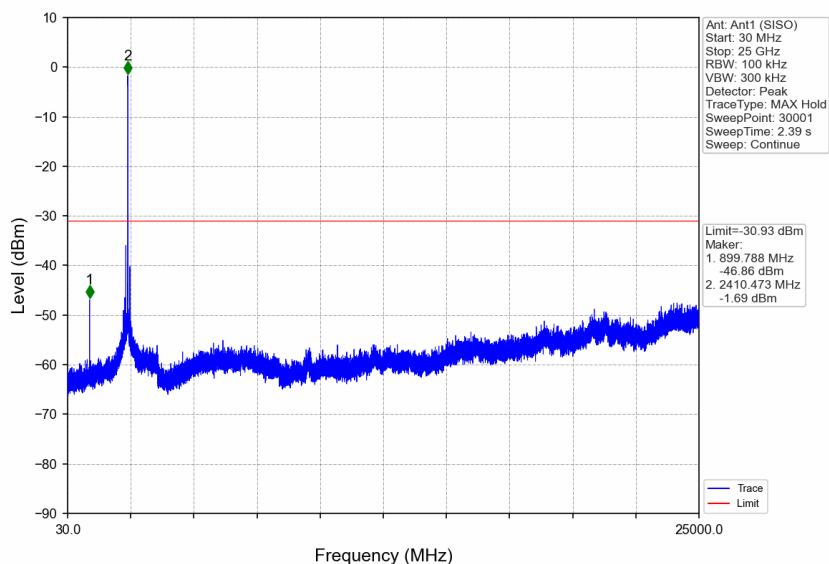
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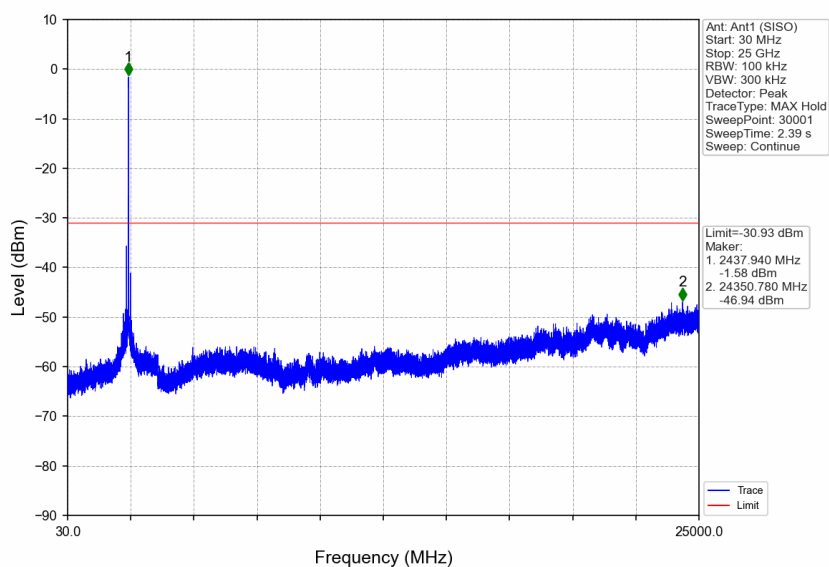
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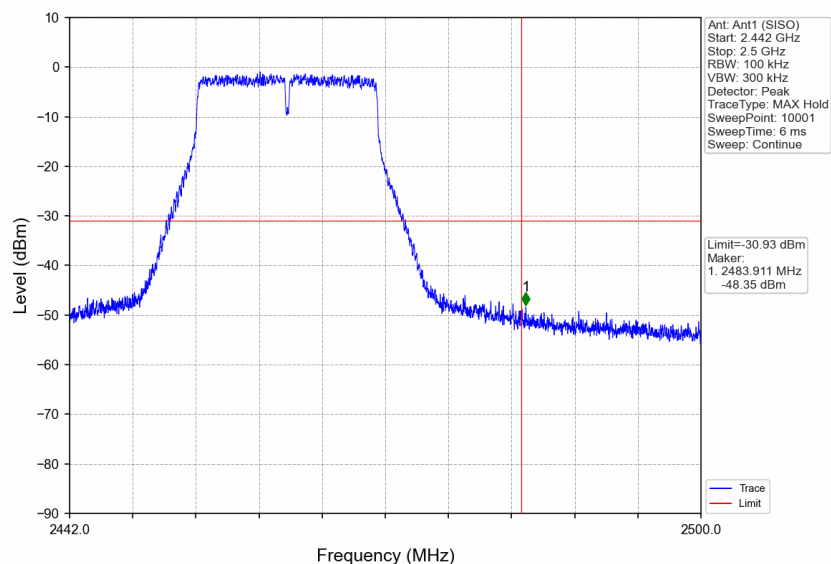
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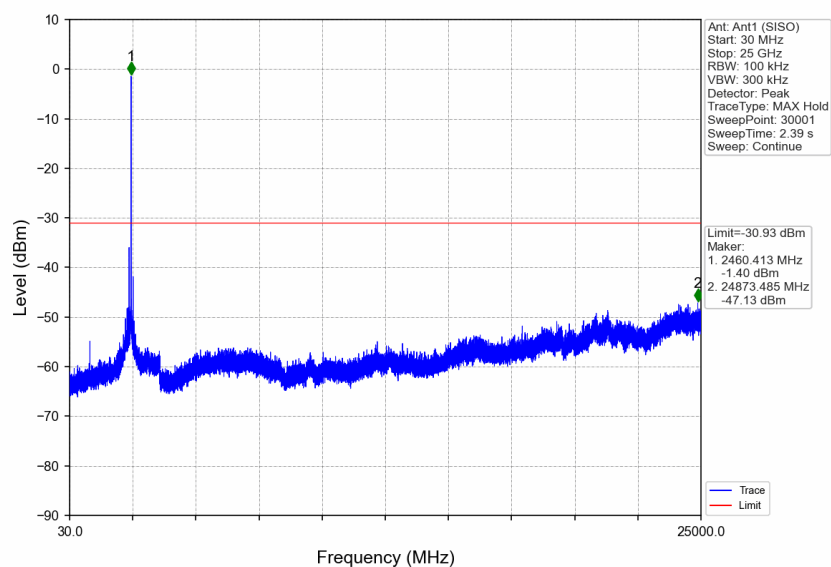
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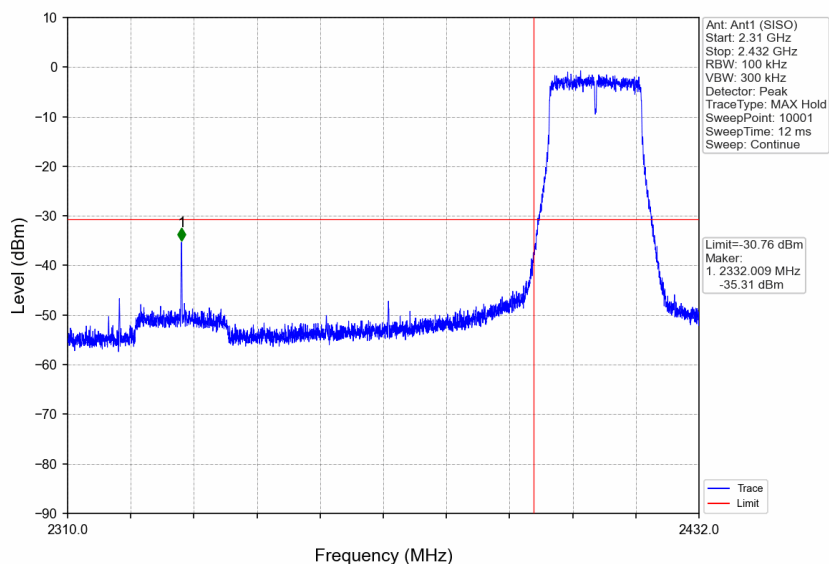
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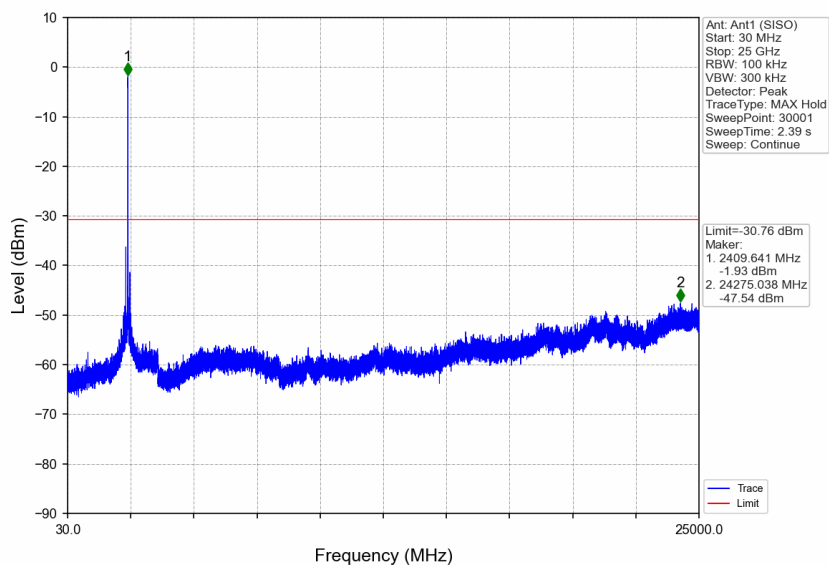
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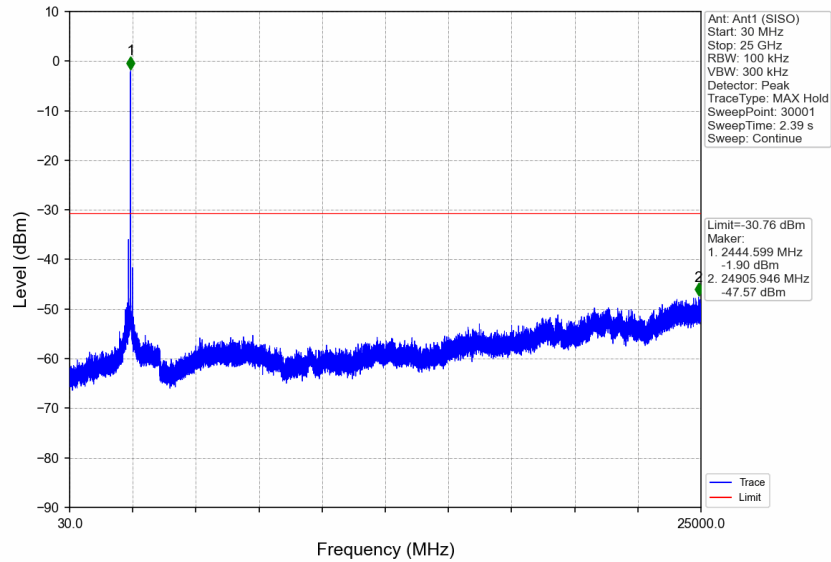
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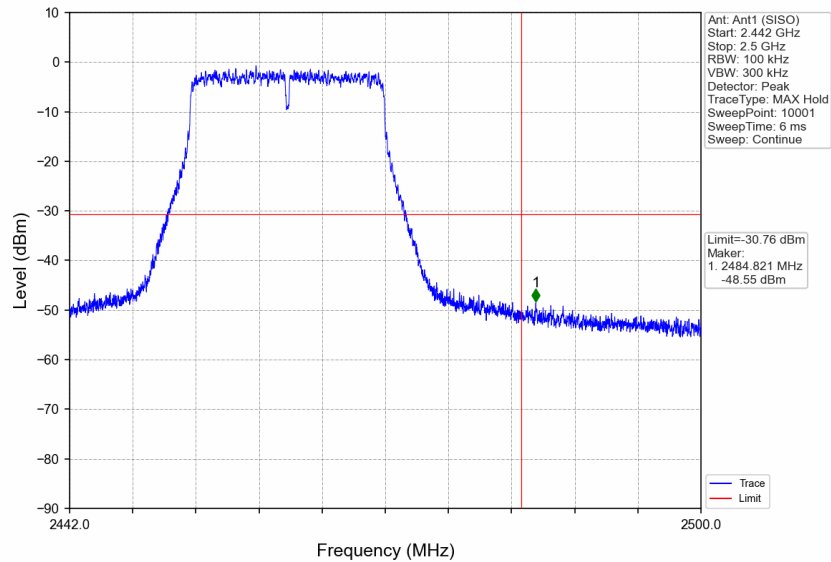
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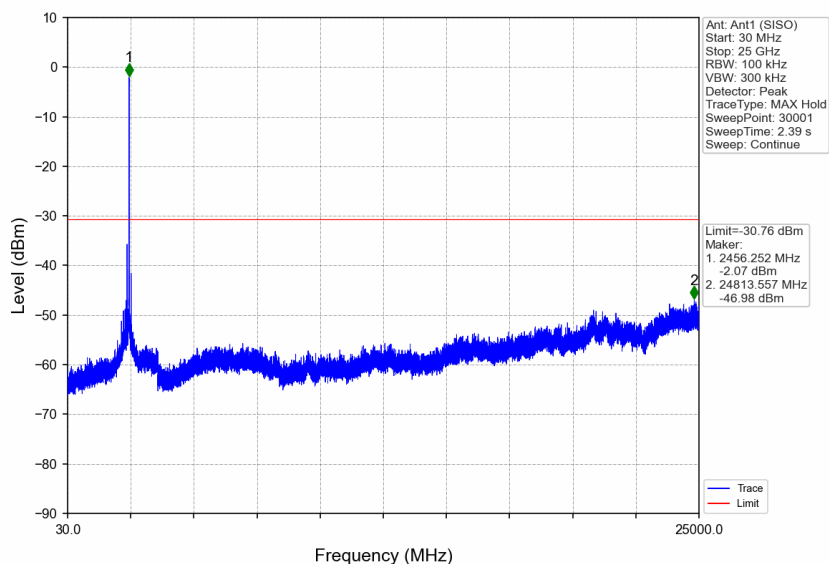
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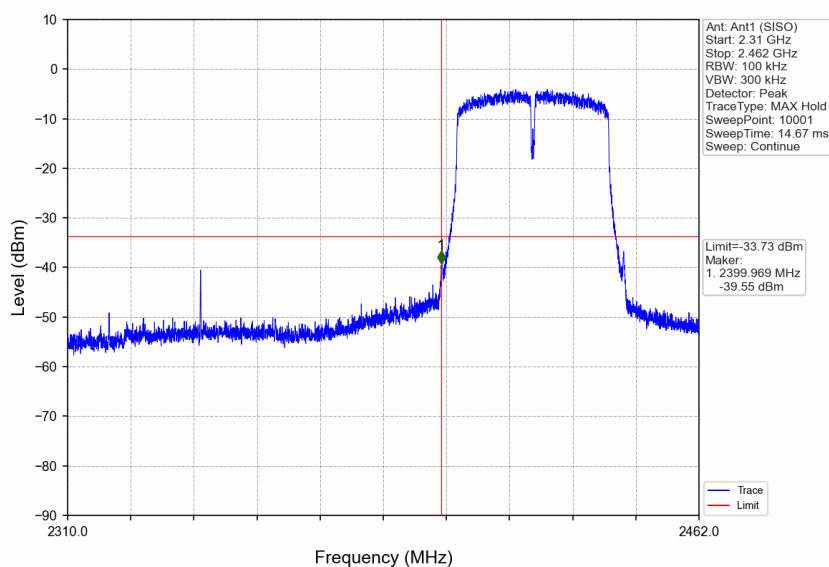


Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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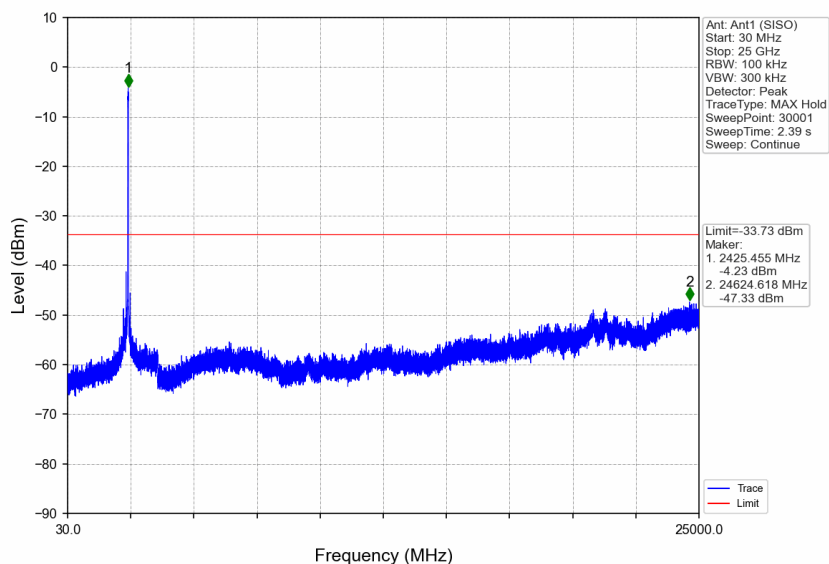
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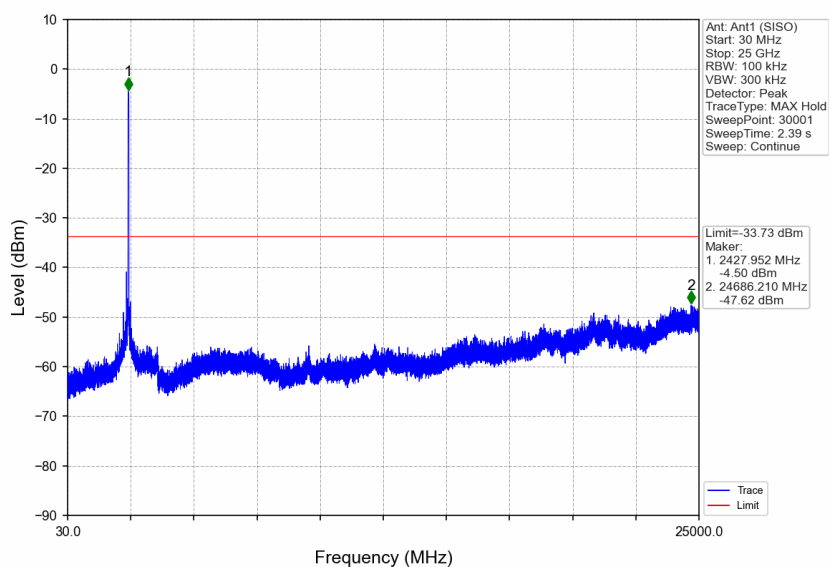
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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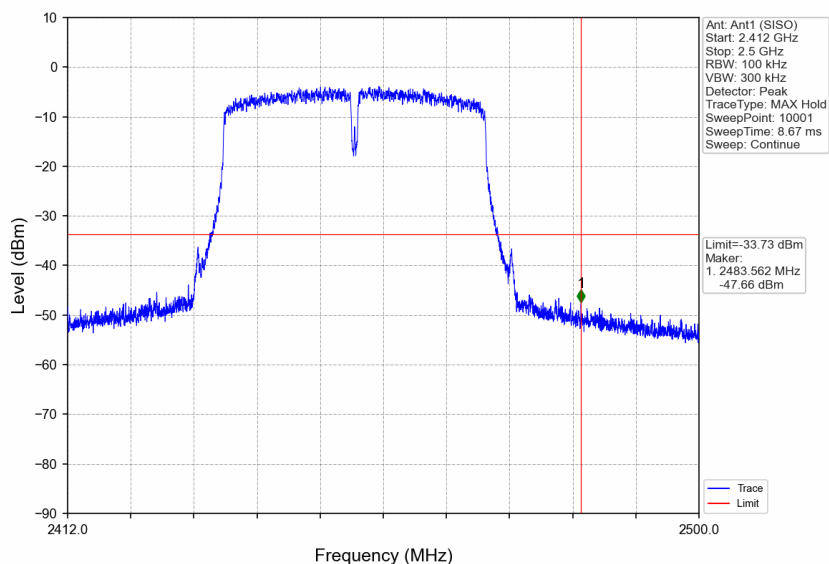
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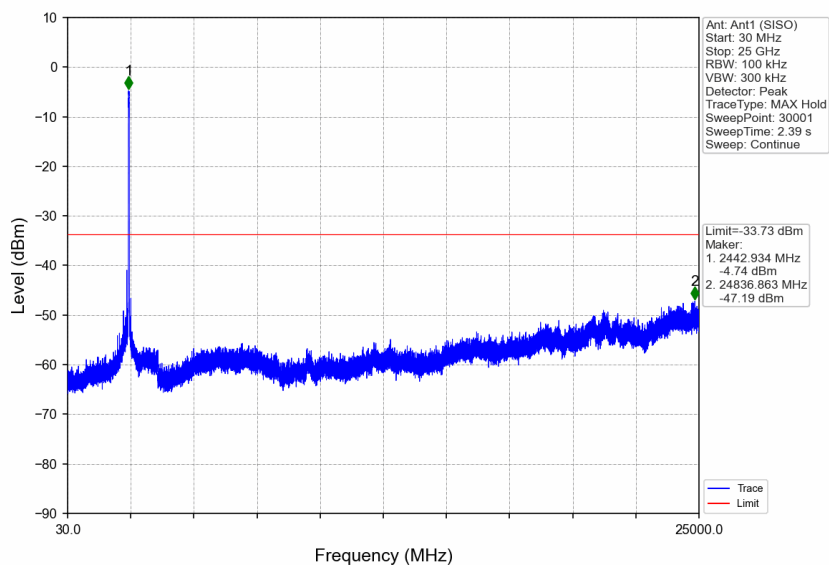
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