

10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	12.417	12.547	98.96	0.05	0.03
		2437	12.417	12.547	98.96	0.05	0.03
		2462	12.417	12.547	98.96	0.05	0.03
802.11g	SISO	2412	2.064	2.194	94.07	0.27	0.04
		2437	2.065	2.195	94.08	0.27	0.04
		2462	2.065	2.195	94.08	0.27	0.06
802.11n (HT20)	SISO	2412	1.921	2.051	93.66	0.28	0.04
		2437	1.920	2.050	93.66	0.28	0.07
		2462	1.921	2.051	93.66	0.28	0.04



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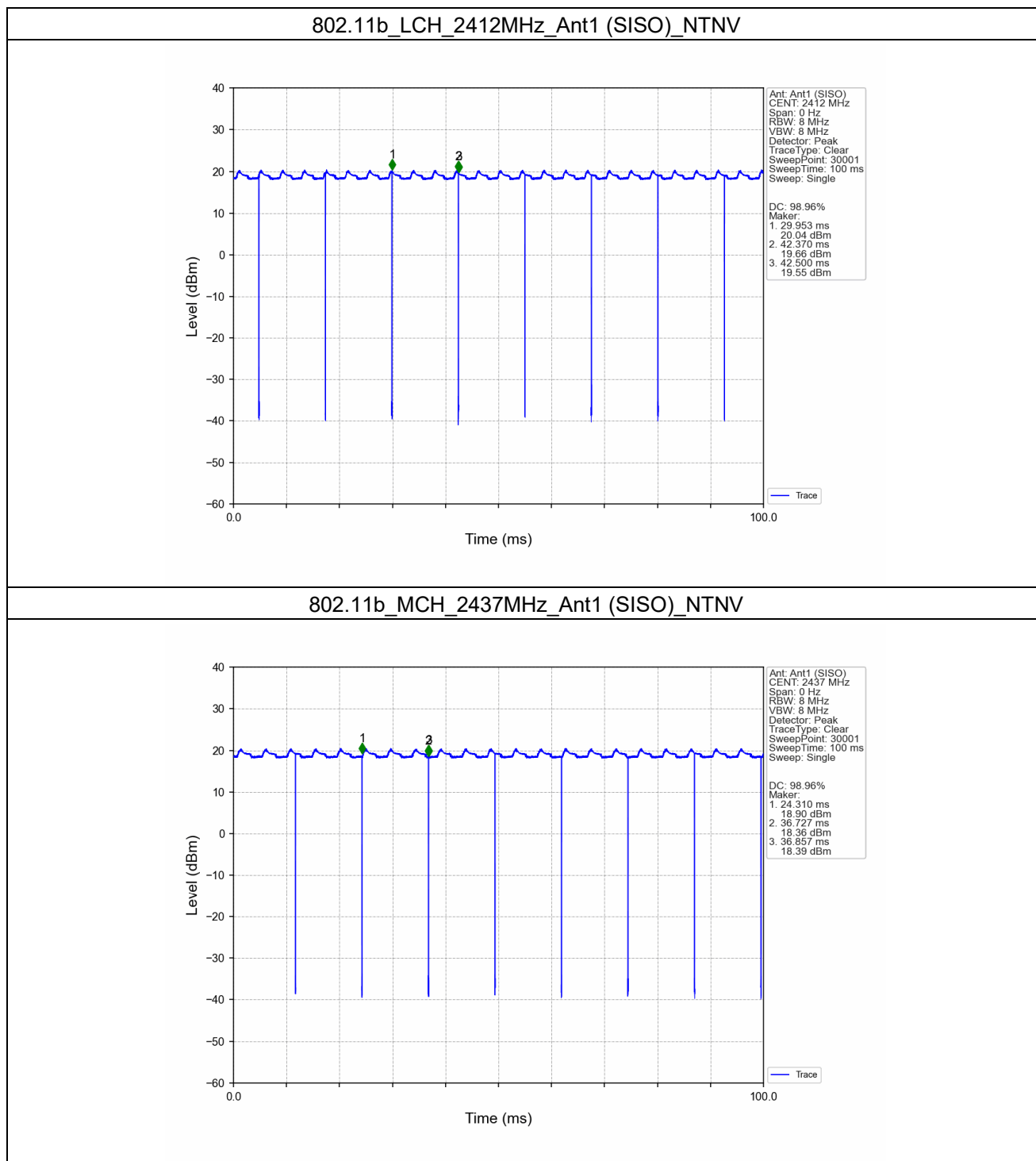
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Guangzhou Branch, EMC Laboratory

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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1.2 Test Graph

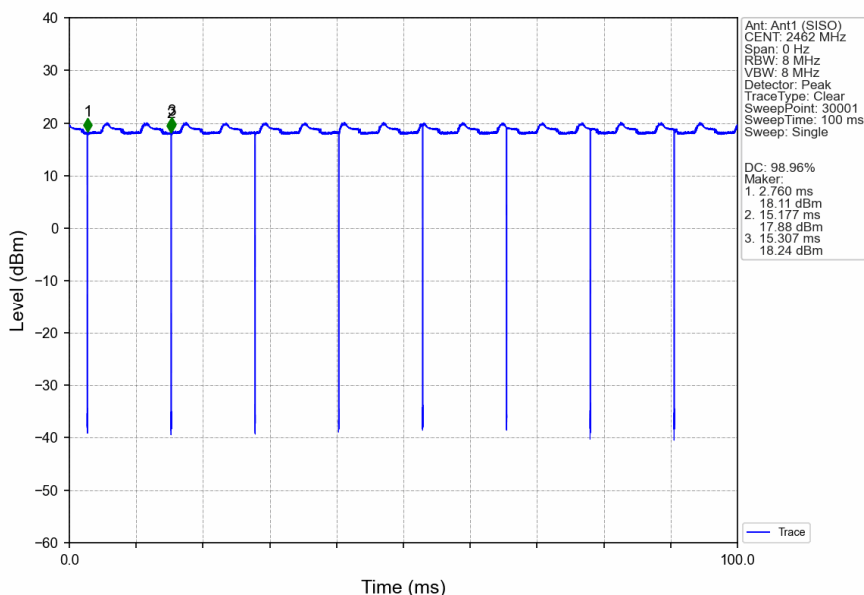
1.2.1 Ant1



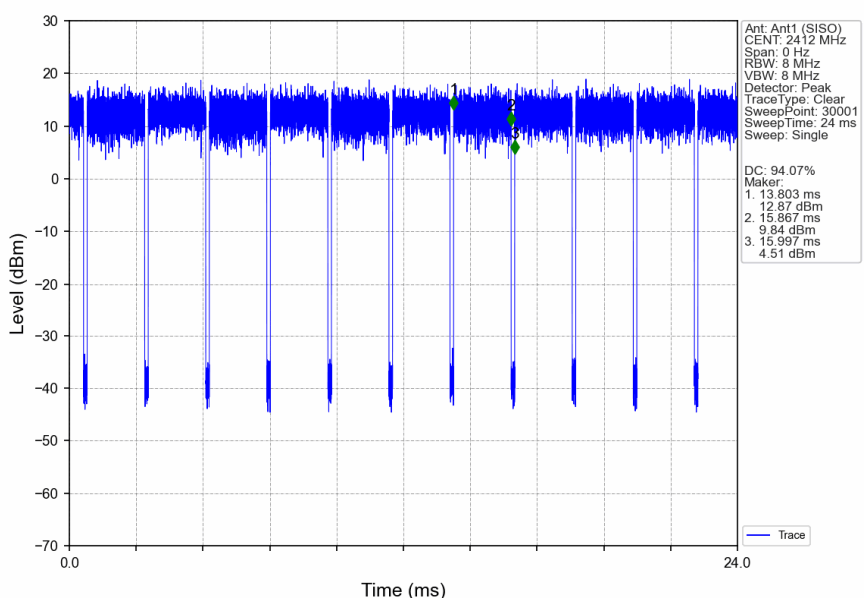
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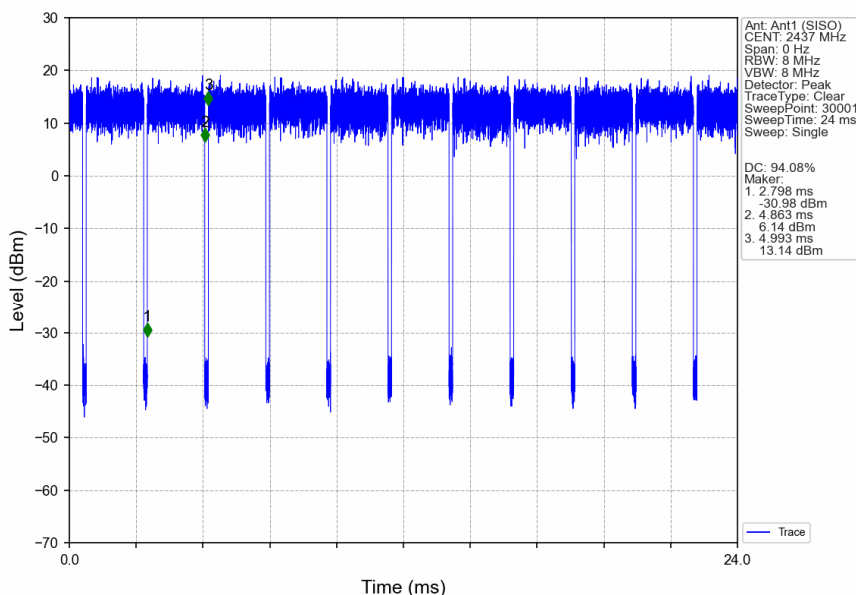
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



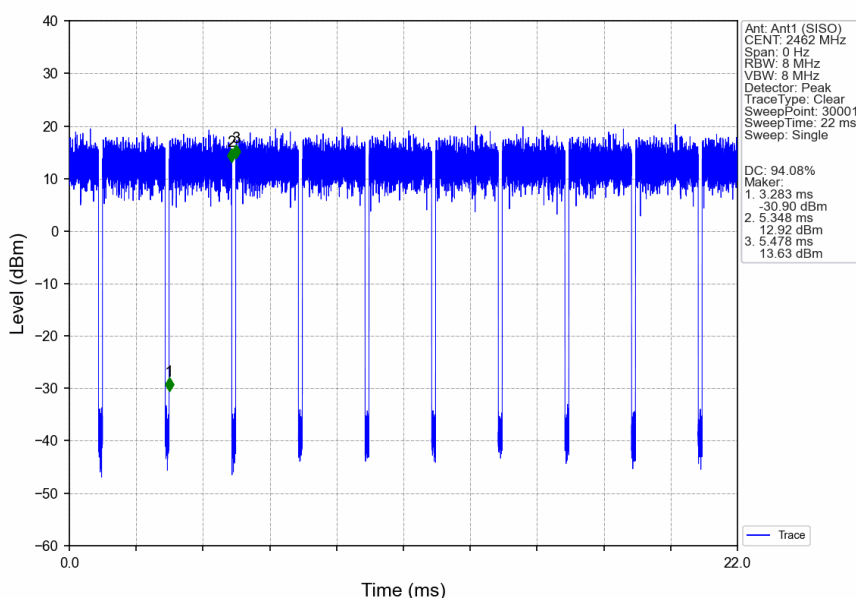
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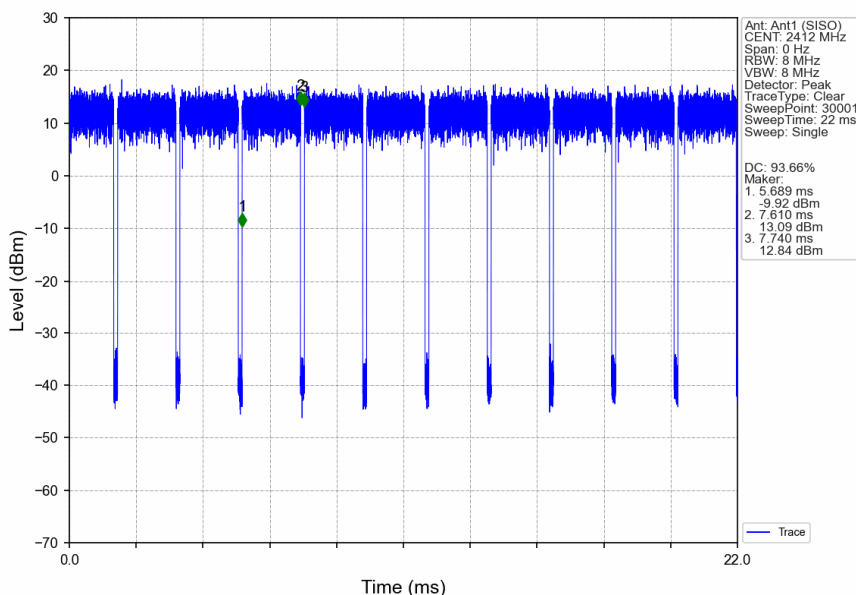
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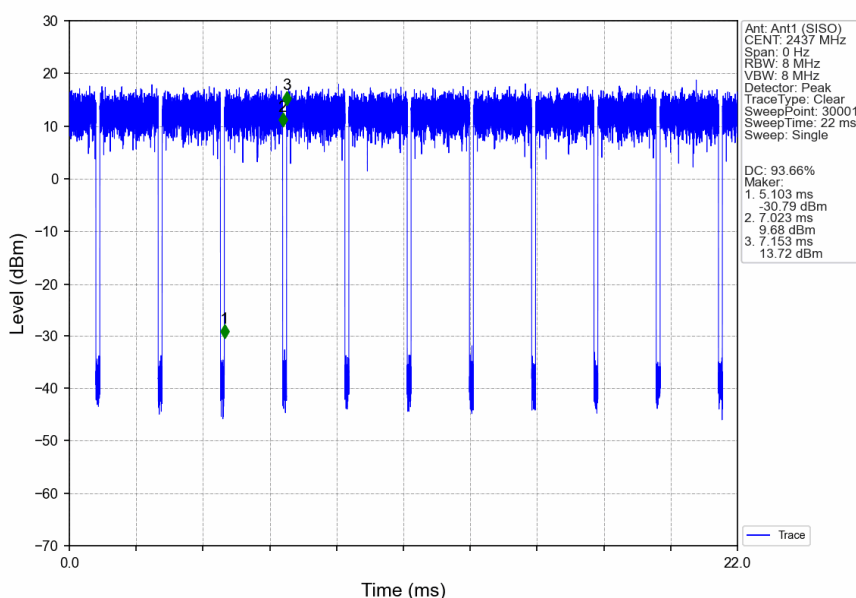
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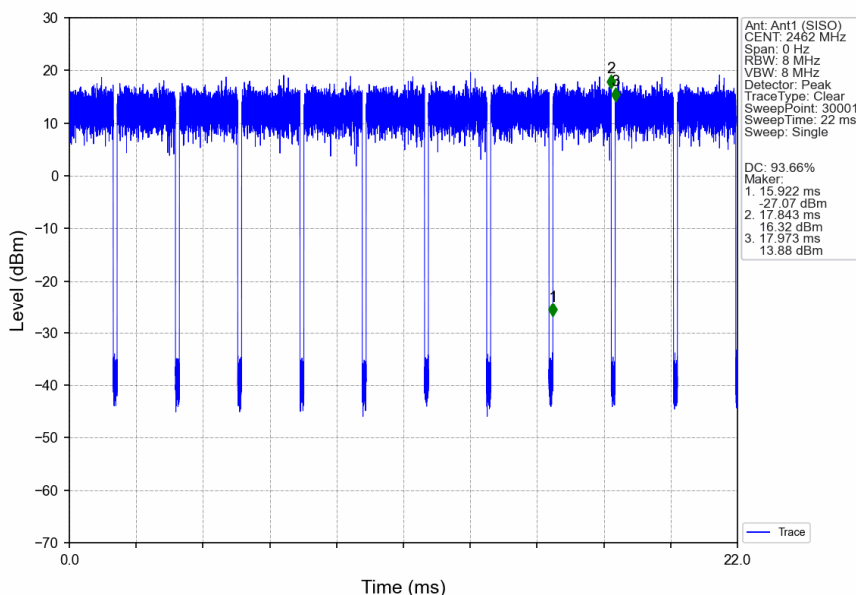
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

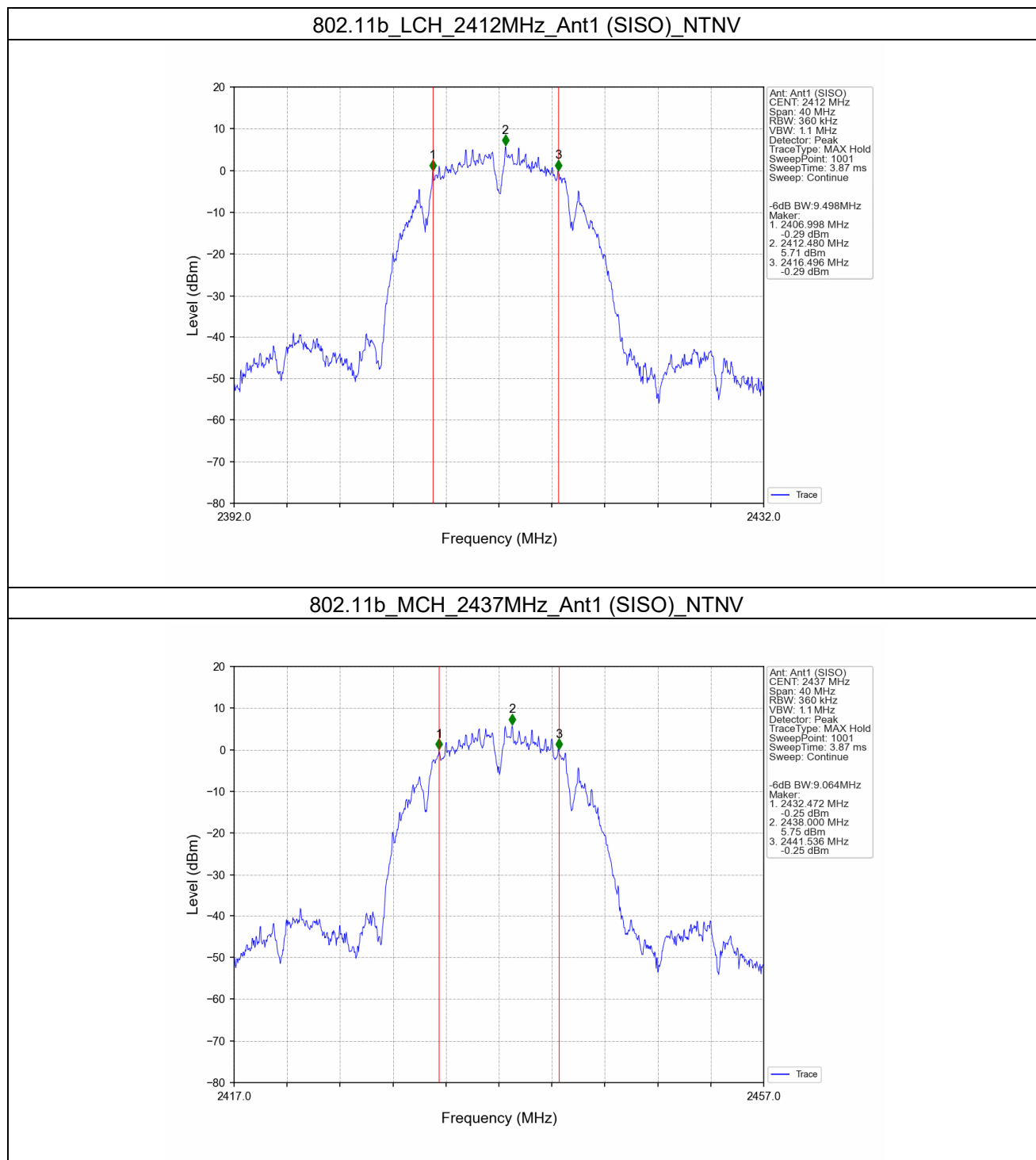
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.498	≥ 0.5	Pass
		2437	1	9.064	≥ 0.5	Pass
		2462	1	10.048	≥ 0.5	Pass
802.11g	SISO	2412	1	16.381	≥ 0.5	Pass
		2437	1	16.403	≥ 0.5	Pass
		2462	1	15.665	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.629	≥ 0.5	Pass
		2437	1	15.492	≥ 0.5	Pass
		2462	1	17.003	≥ 0.5	Pass



2.2 Test Graph

2.2.1 6dB BW



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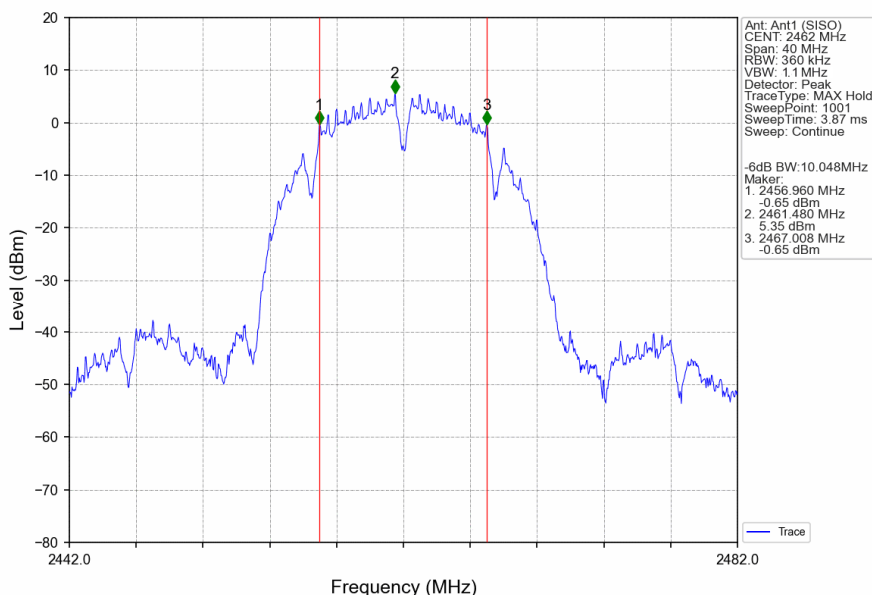
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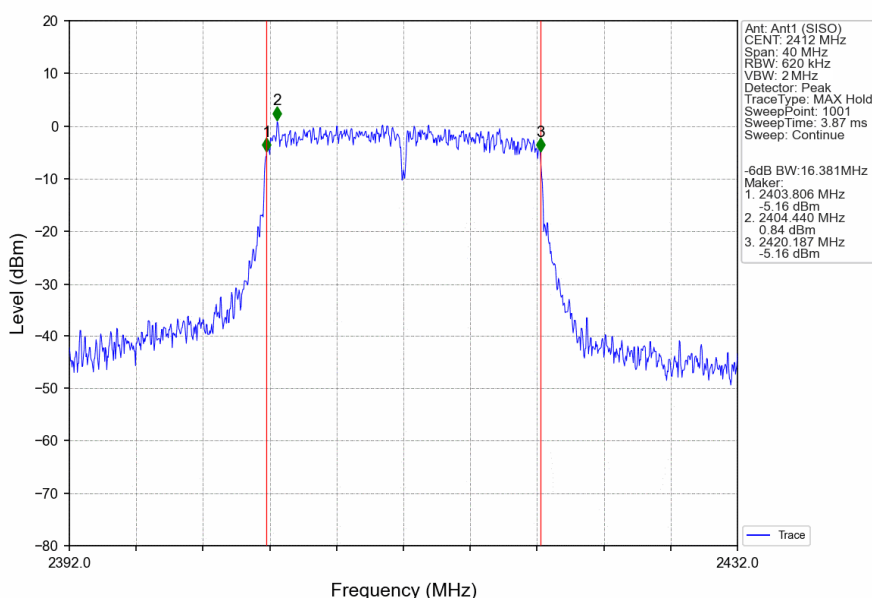
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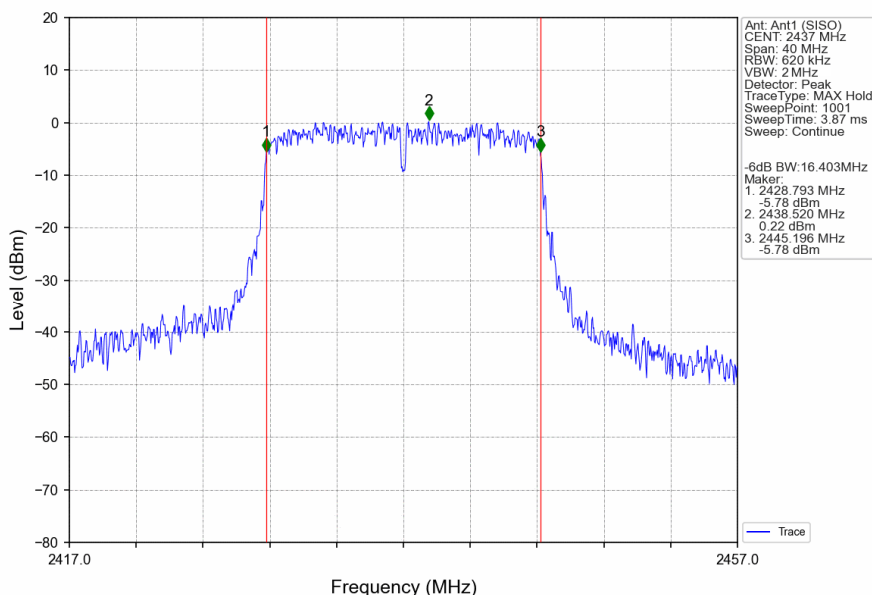
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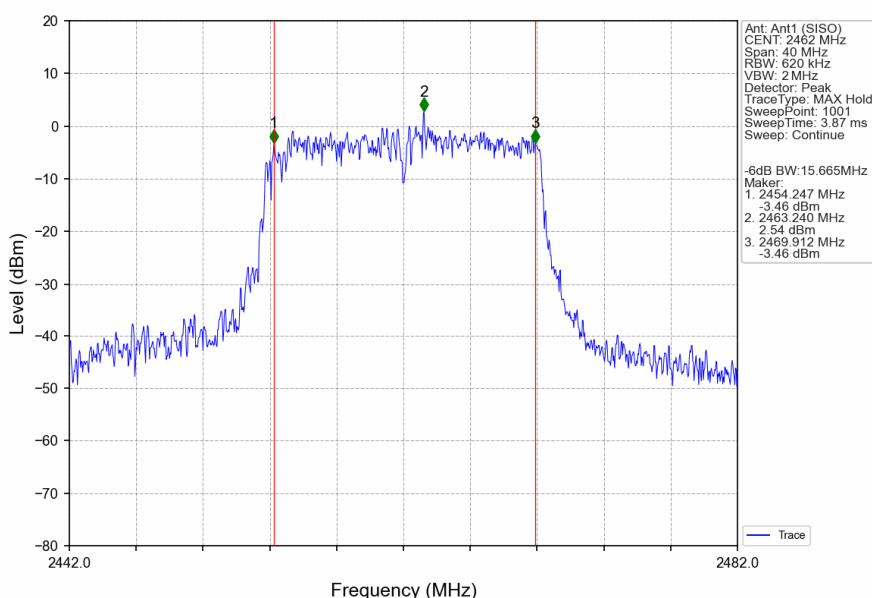
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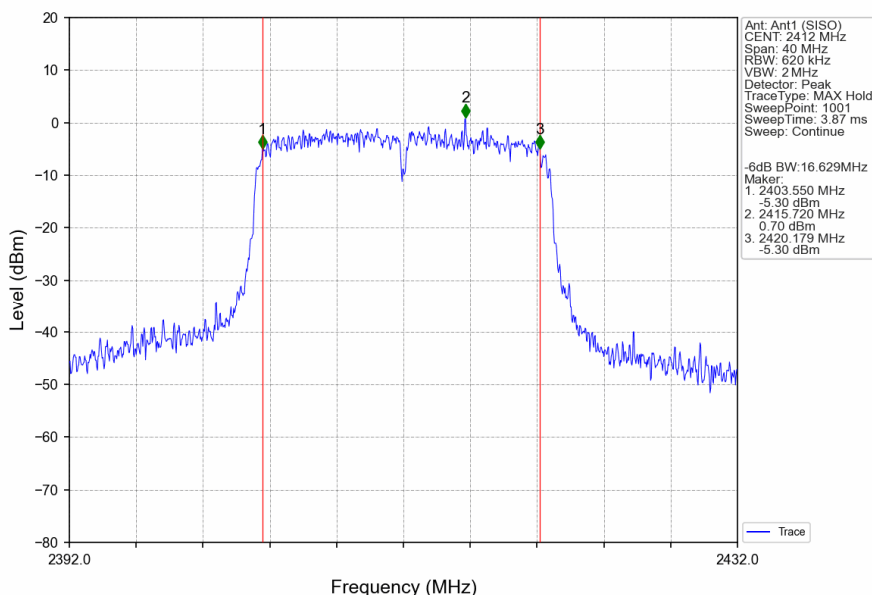
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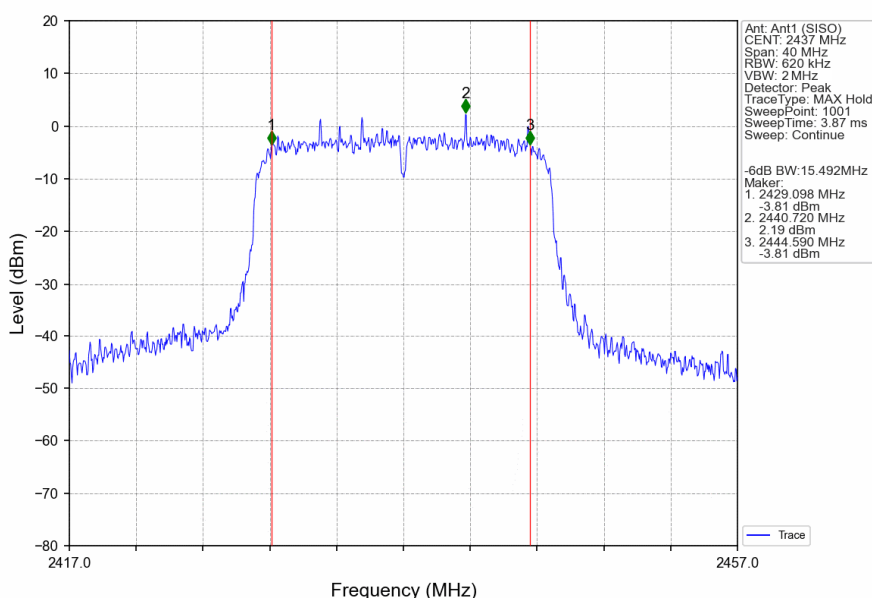
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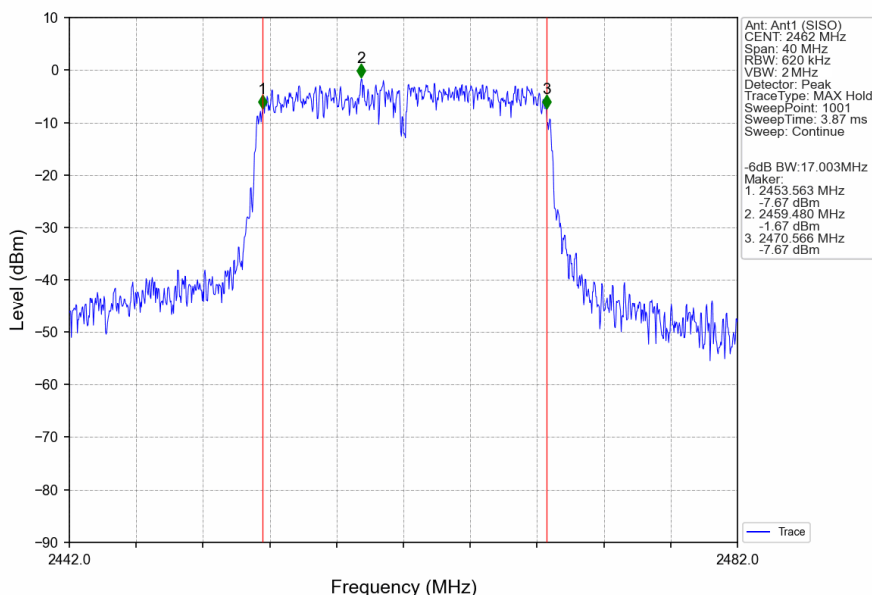
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	18.05	<=30	Pass
		2437	17.66	<=30	Pass
		2462	17.77	<=30	Pass
802.11g	SISO	2412	20.93	<=30	Pass
		2437	20.84	<=30	Pass
		2462	20.15	<=30	Pass
802.11n (HT20)	SISO	2412	19.77	<=30	Pass
		2437	19.83	<=30	Pass
		2462	18.41	<=30	Pass



4. Maximum Power Spectral Density

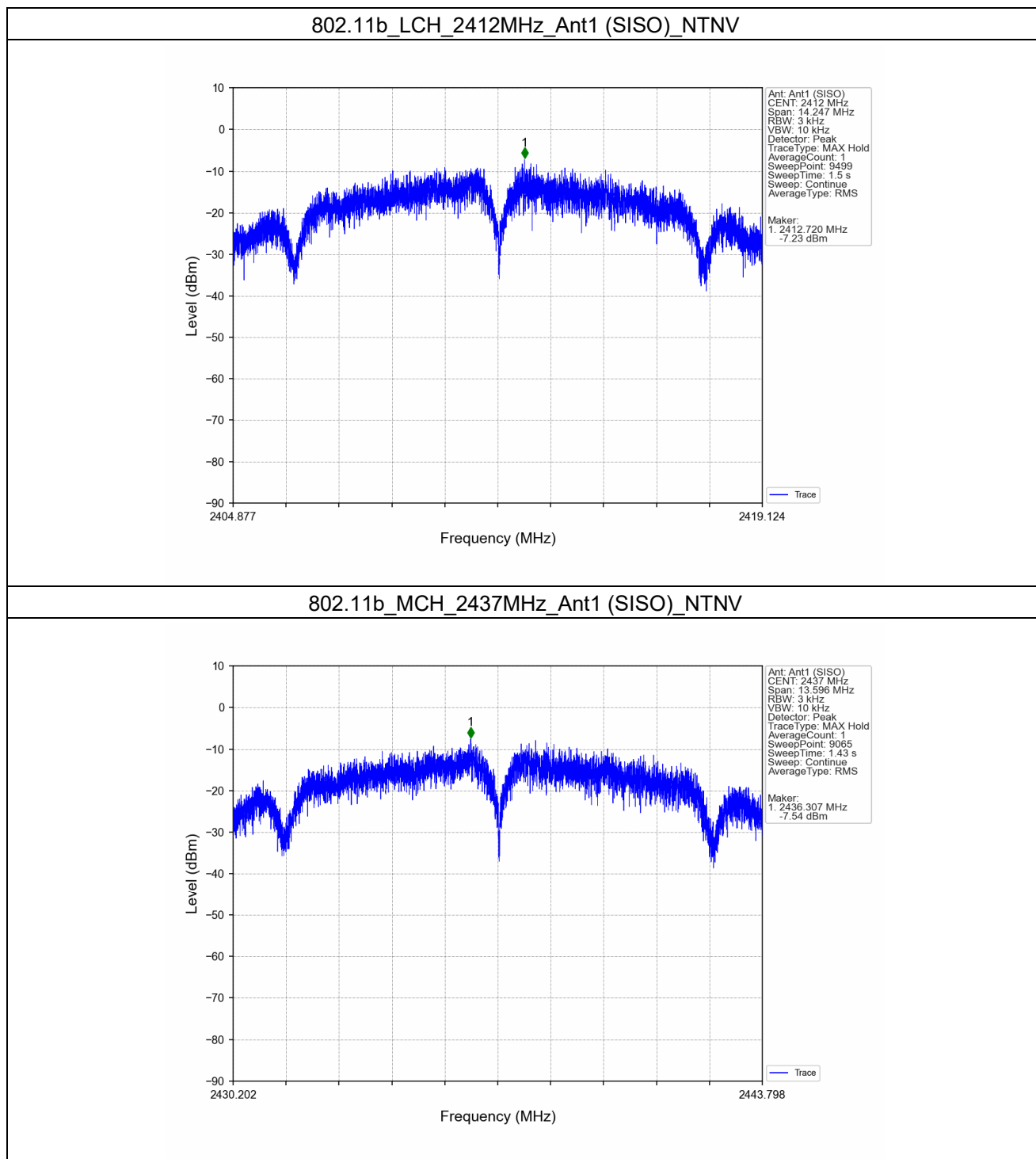
4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-7.23	<=8	Pass
		2437	-7.54	<=8	Pass
		2462	-7.88	<=8	Pass
802.11g	SISO	2412	-14.50	<=8	Pass
		2437	-14.25	<=8	Pass
		2462	-13.87	<=8	Pass
802.11n (HT20)	SISO	2412	-14.98	<=8	Pass
		2437	-14.20	<=8	Pass
		2462	-13.72	<=8	Pass

4.2 Test Graph

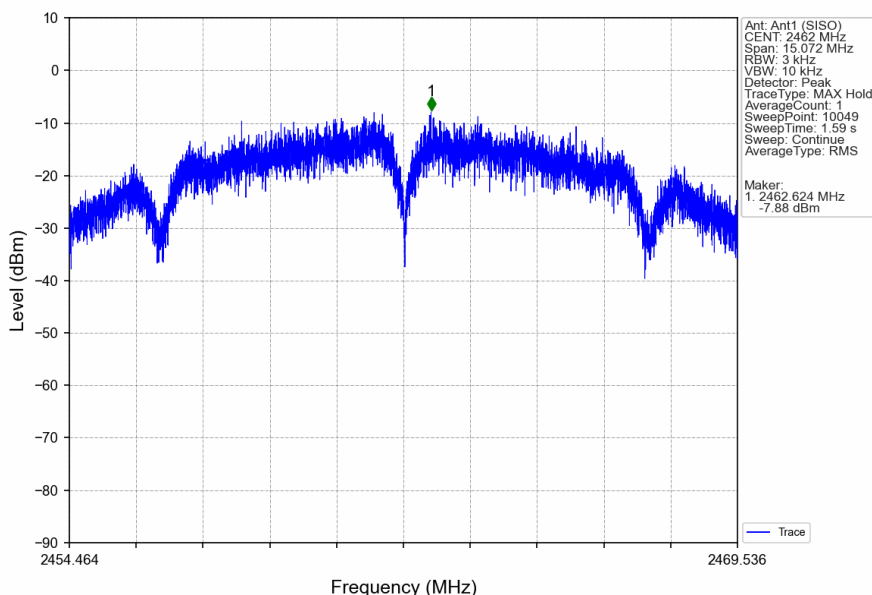
4.2.1 PSD



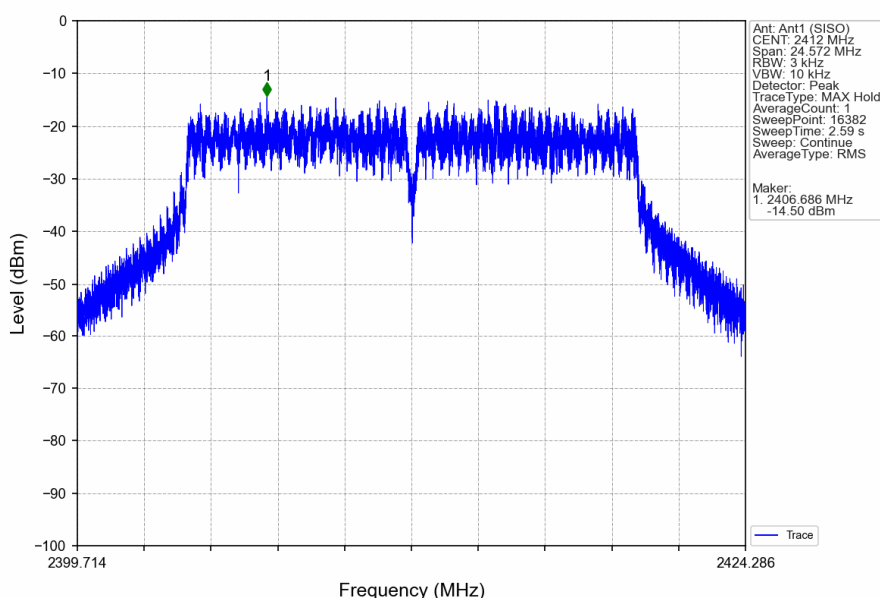
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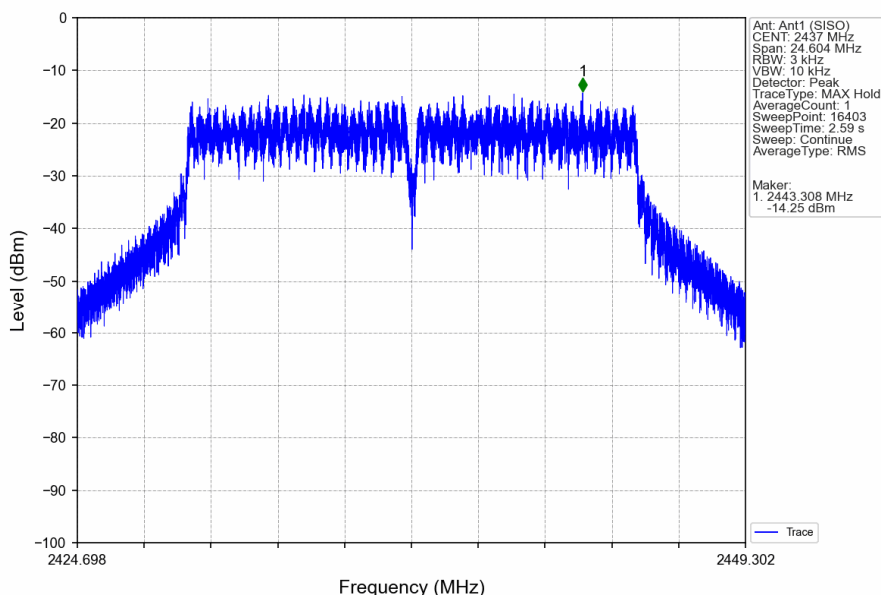
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



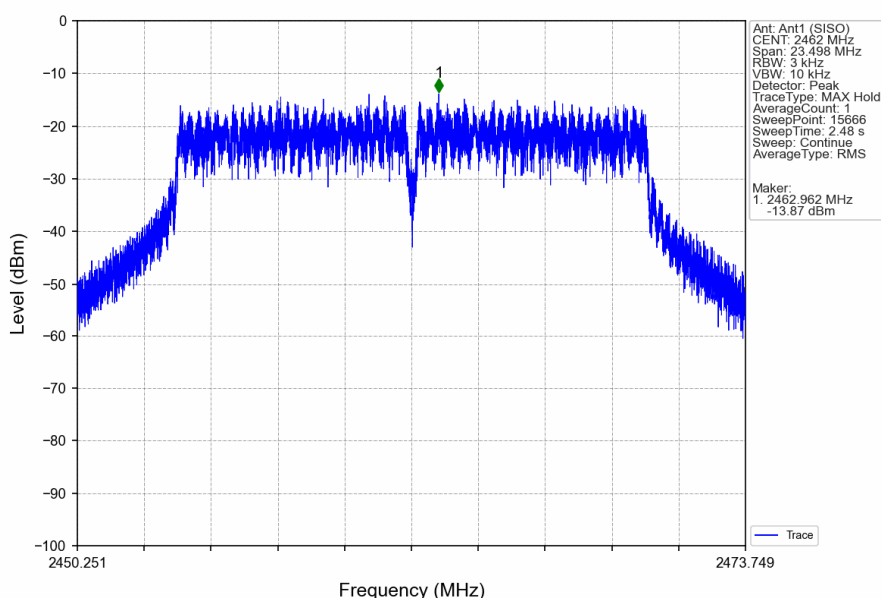
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



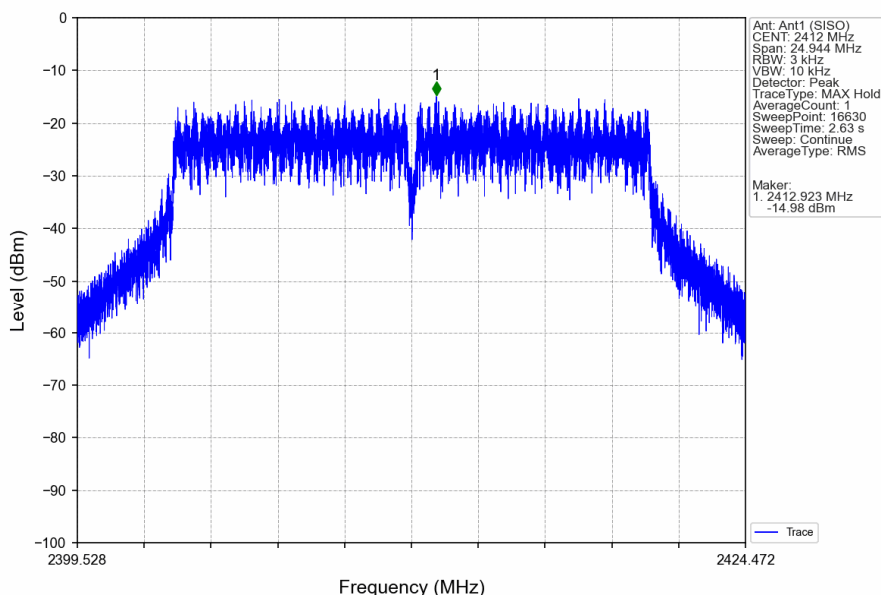
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



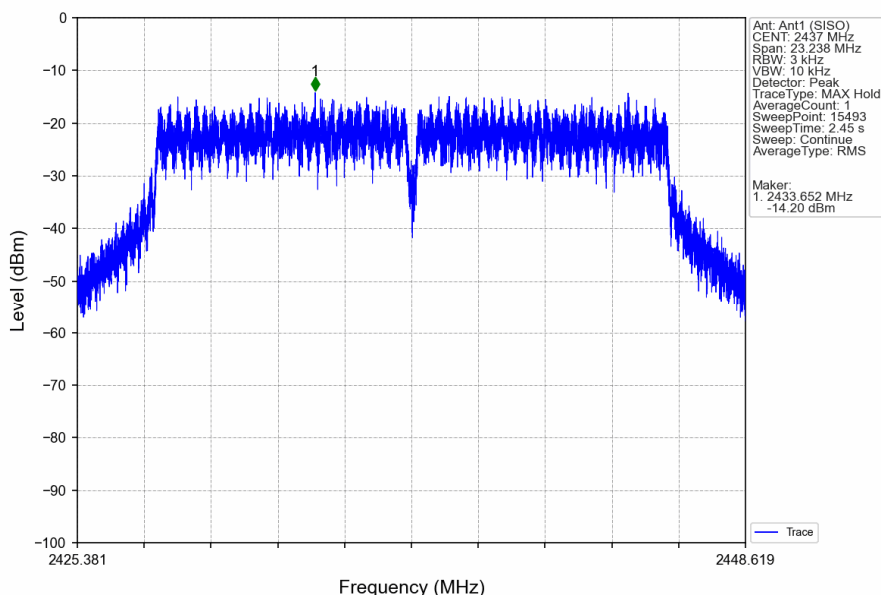
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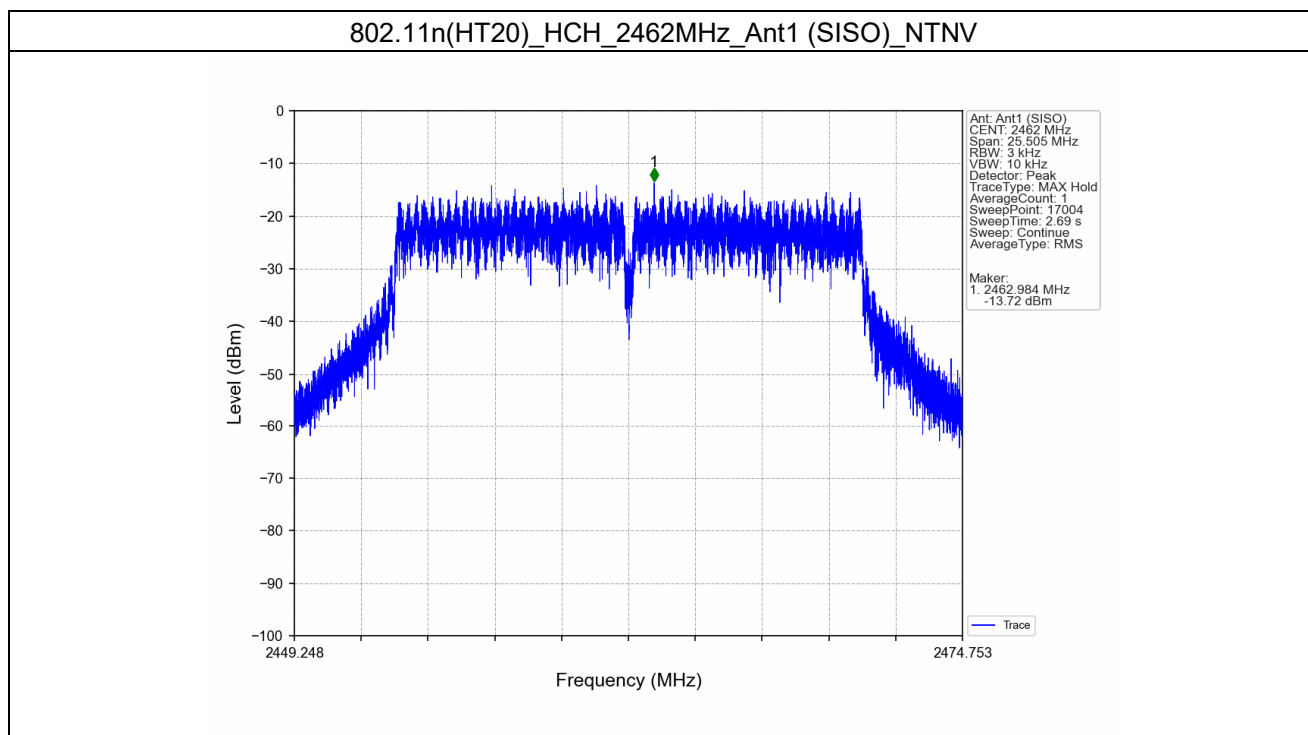


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.40
		2437	1	5.73
		2462	1	5.34
802.11g	SISO	2412	1	3.43
		2437	1	2.94
		2462	1	1.17
802.11n (HT20)	SISO	2412	1	2.22
		2437	1	2.15
		2462	1	2.60

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

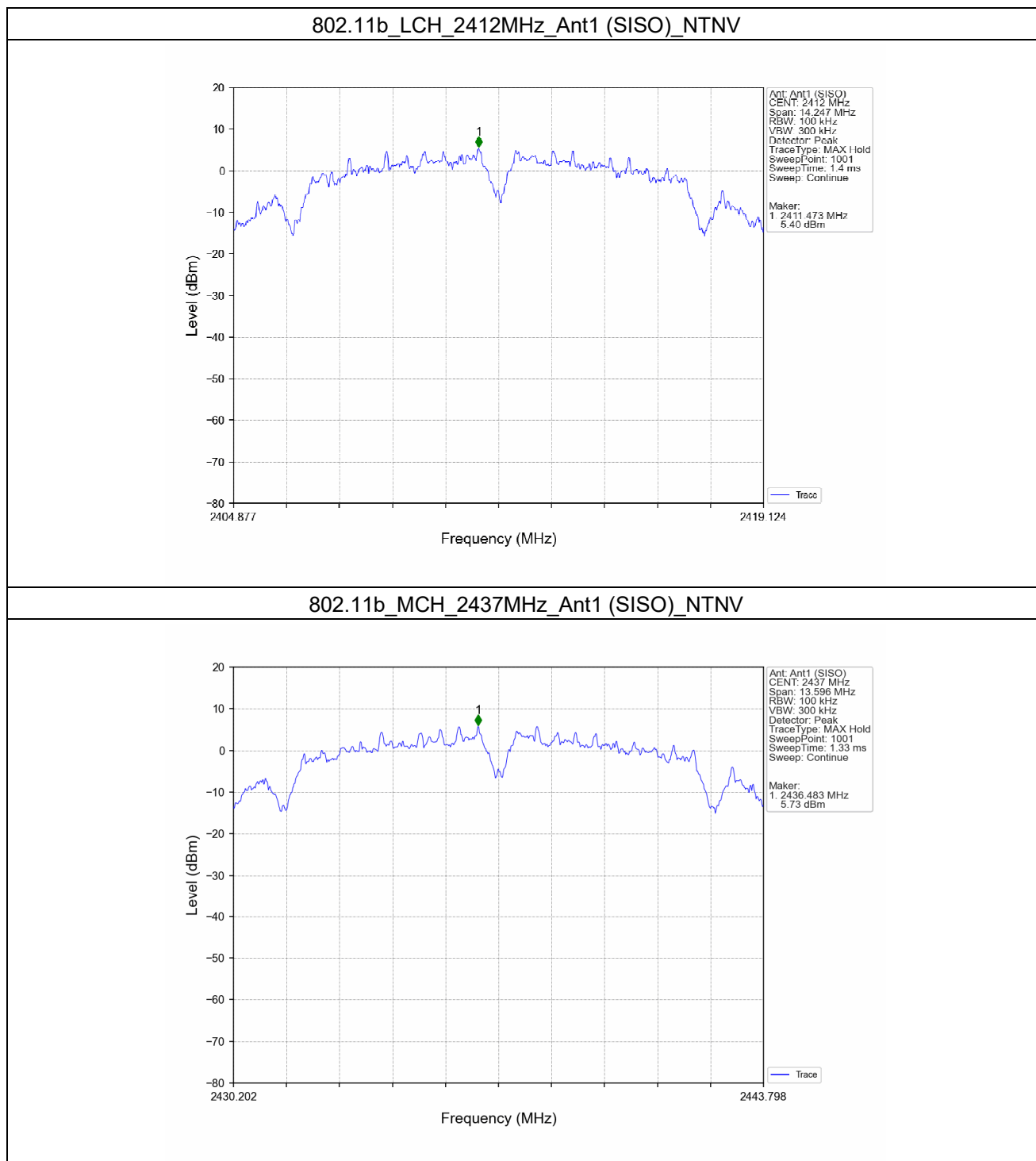
5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.73	-14.27	Pass
		2437	1	5.73	-14.27	Pass
		2462	1	5.73	-14.27	Pass
802.11g	SISO	2412	1	3.43	-16.57	Pass
		2437	1	3.43	-16.57	Pass
		2462	1	3.43	-16.57	Pass
802.11n (HT20)	SISO	2412	1	2.60	-17.40	Pass
		2437	1	2.60	-17.40	Pass
		2462	1	2.60	-17.40	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

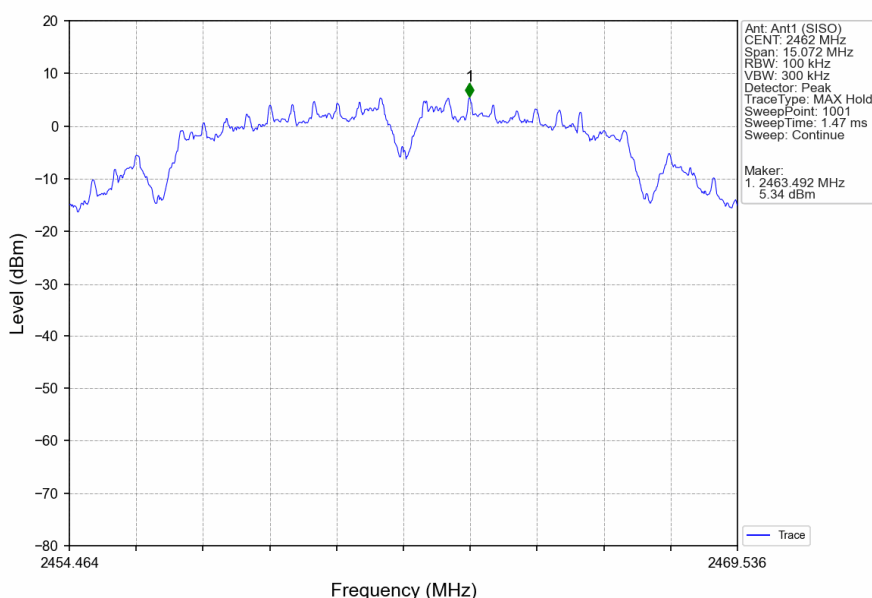
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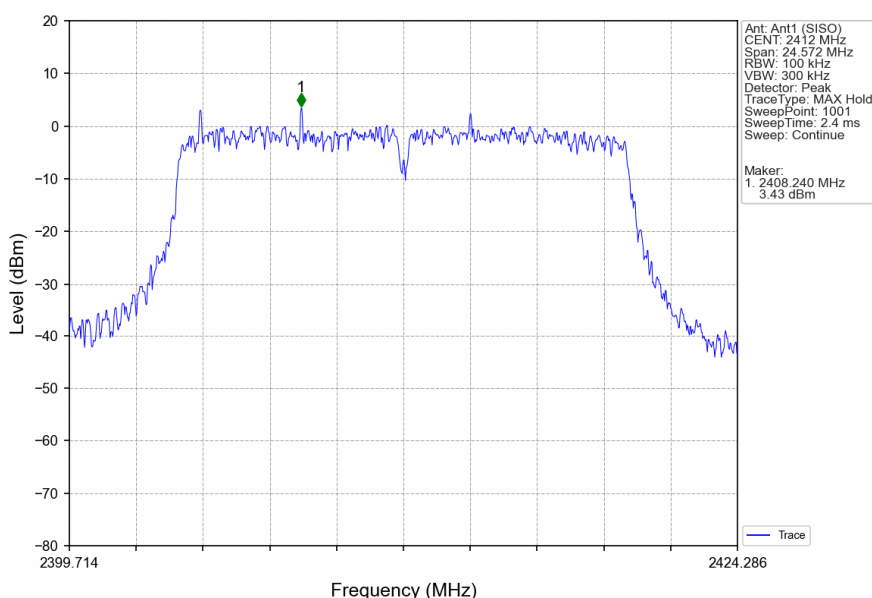
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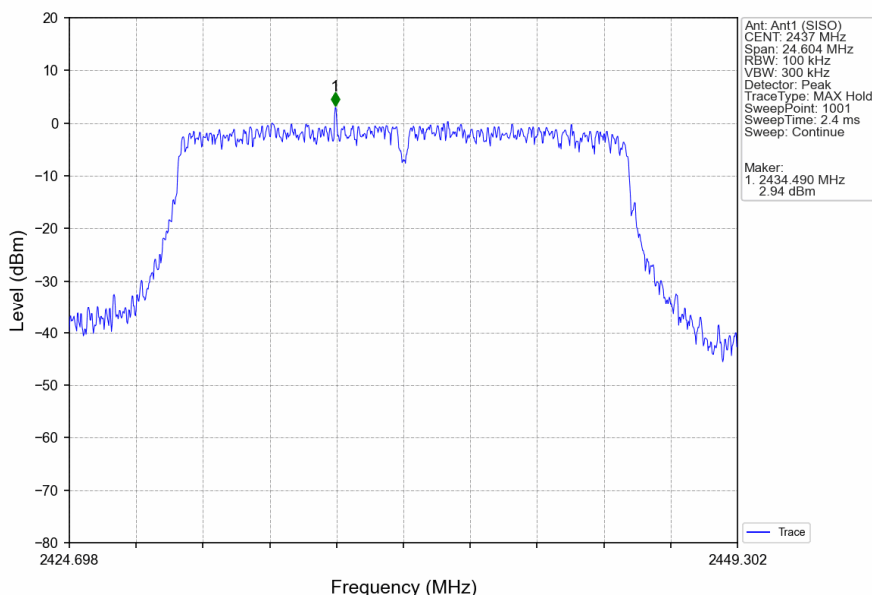
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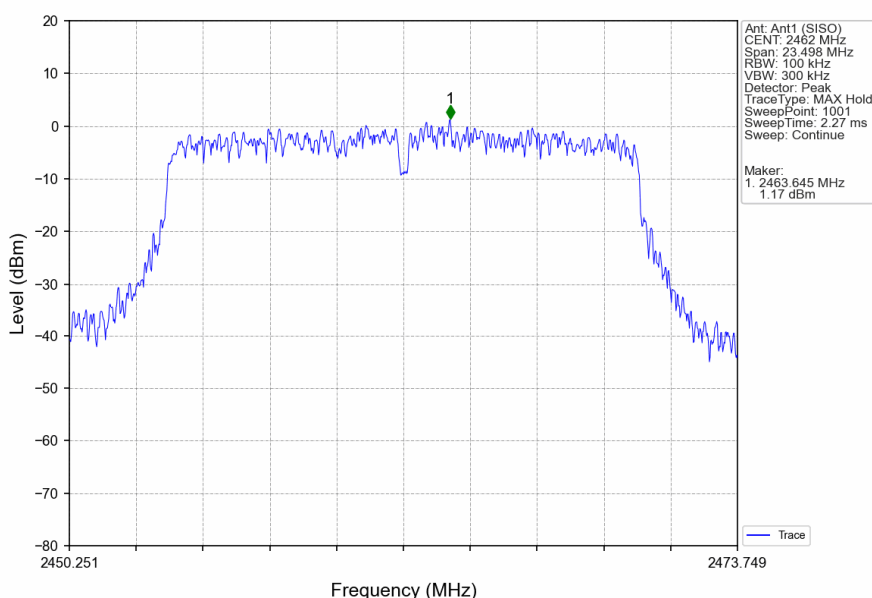
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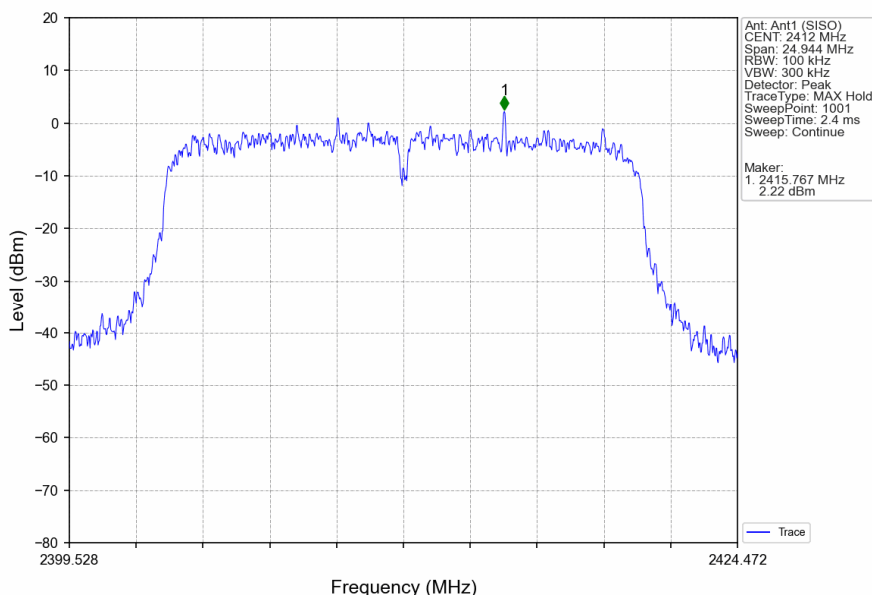
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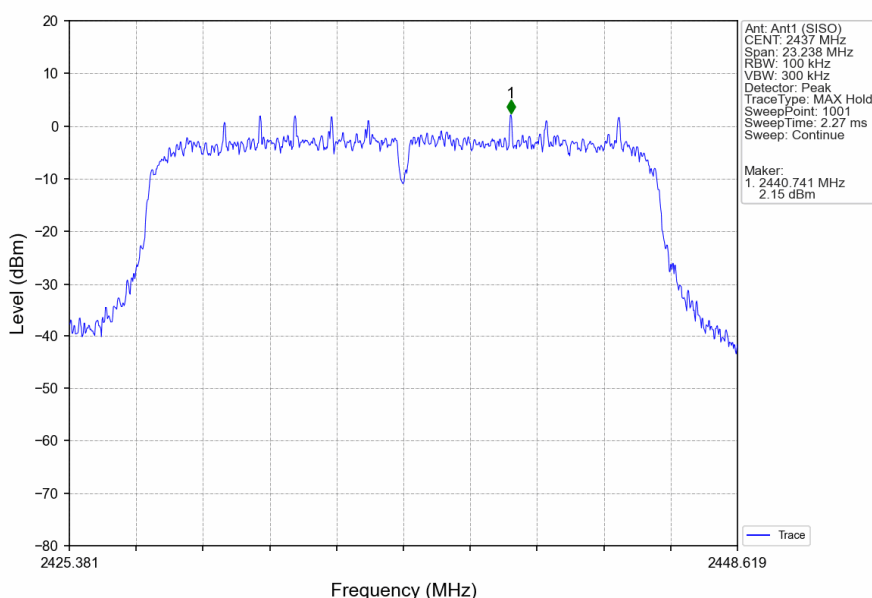
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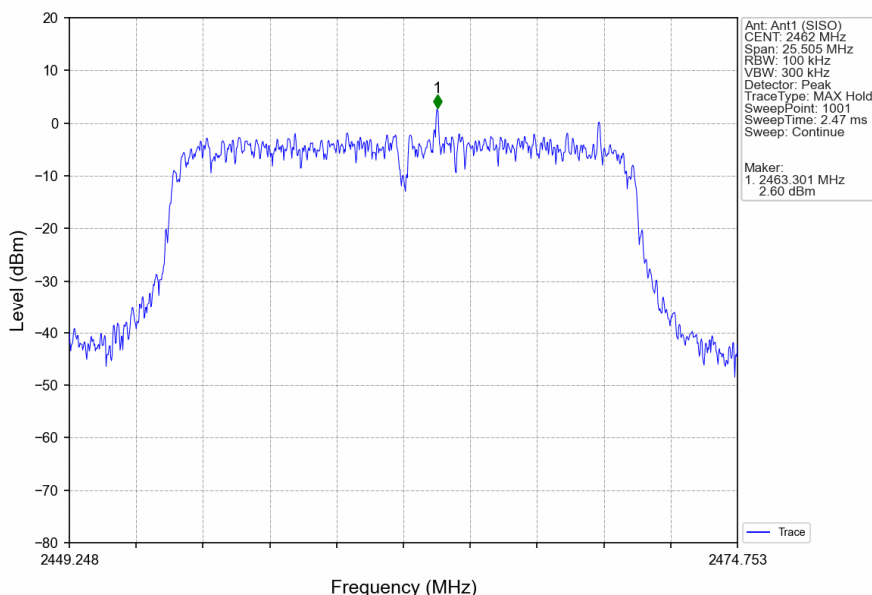
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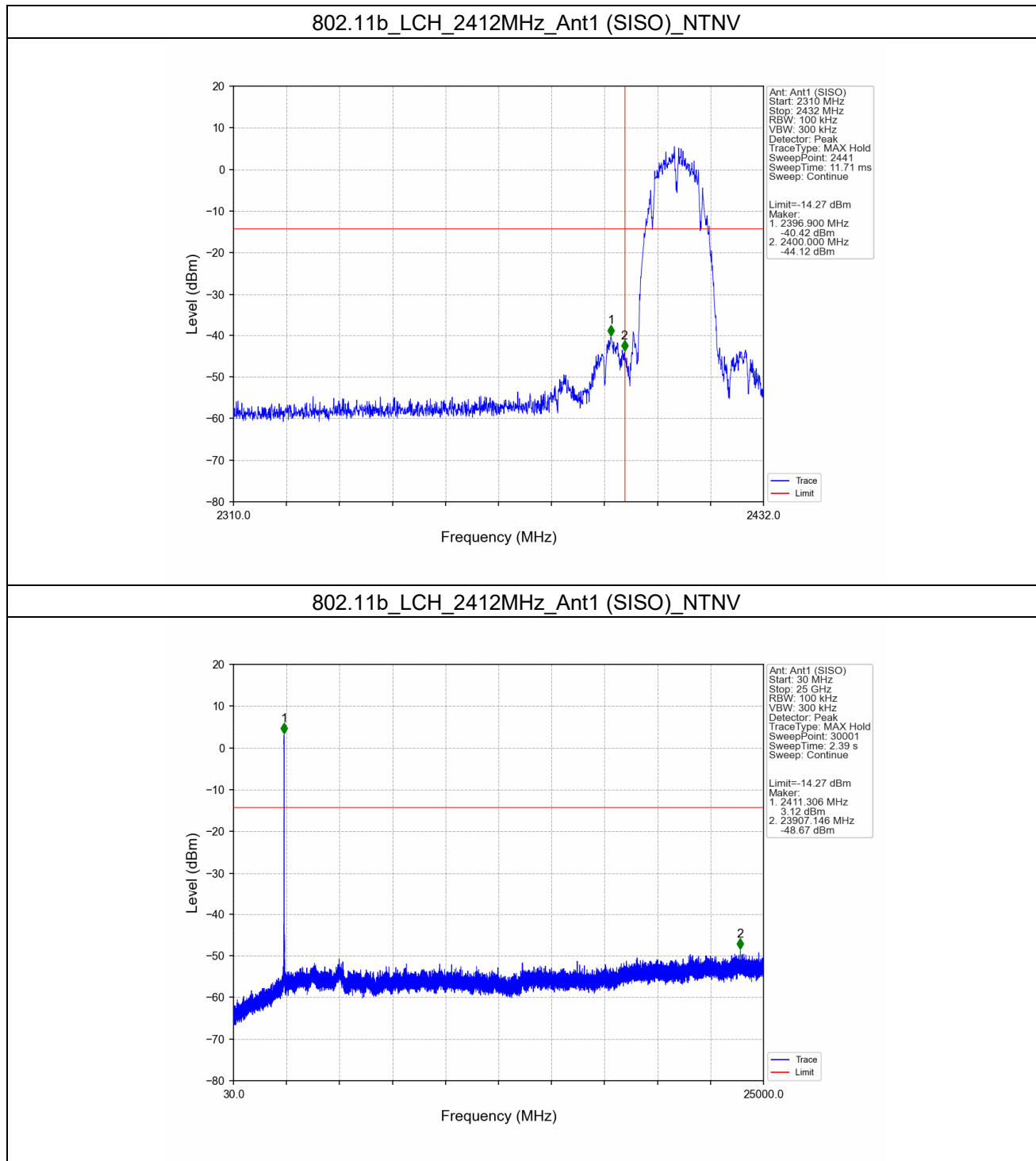
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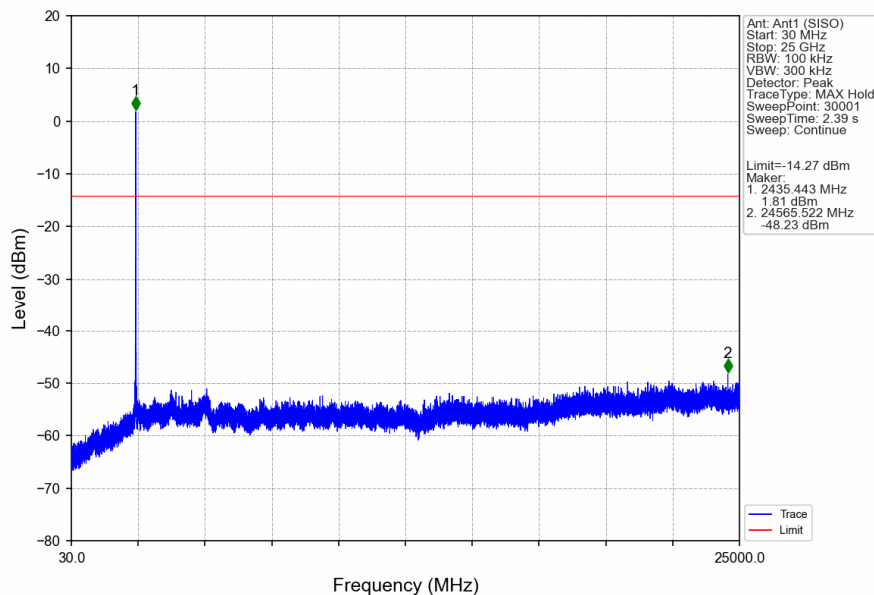
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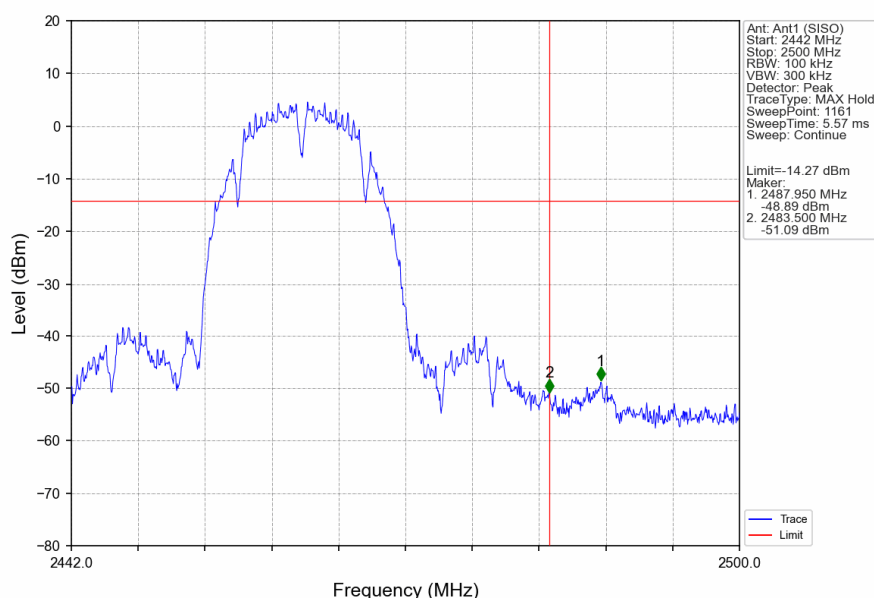
5.2.2 CSE and Band Edges



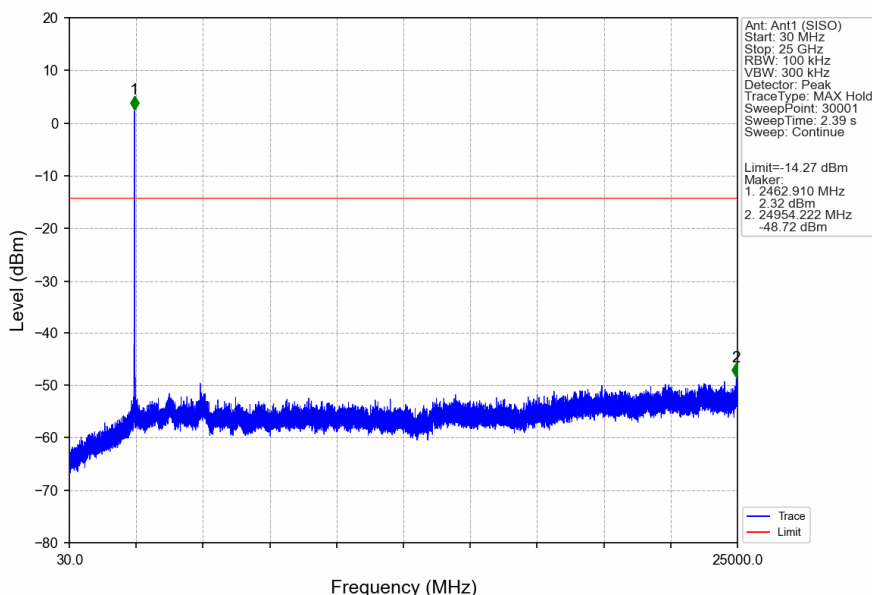
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



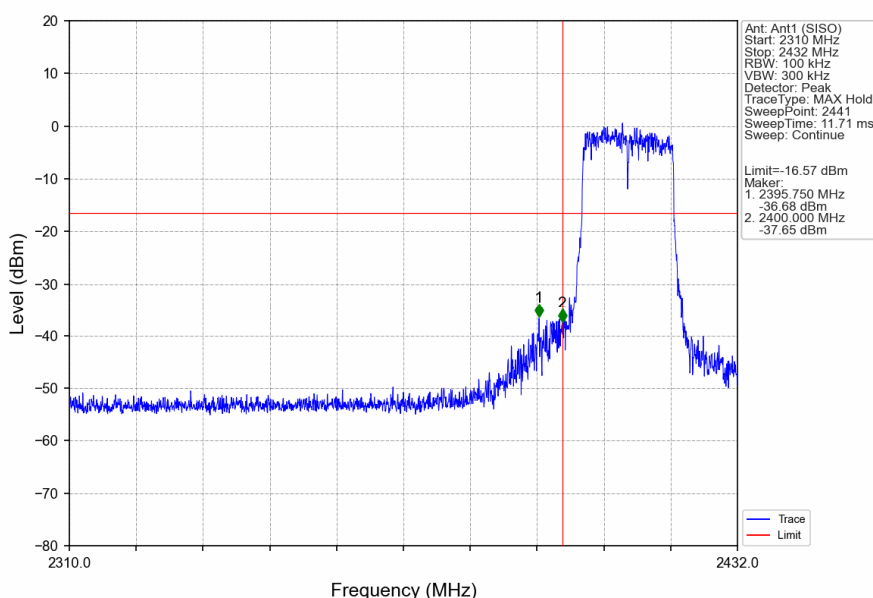
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



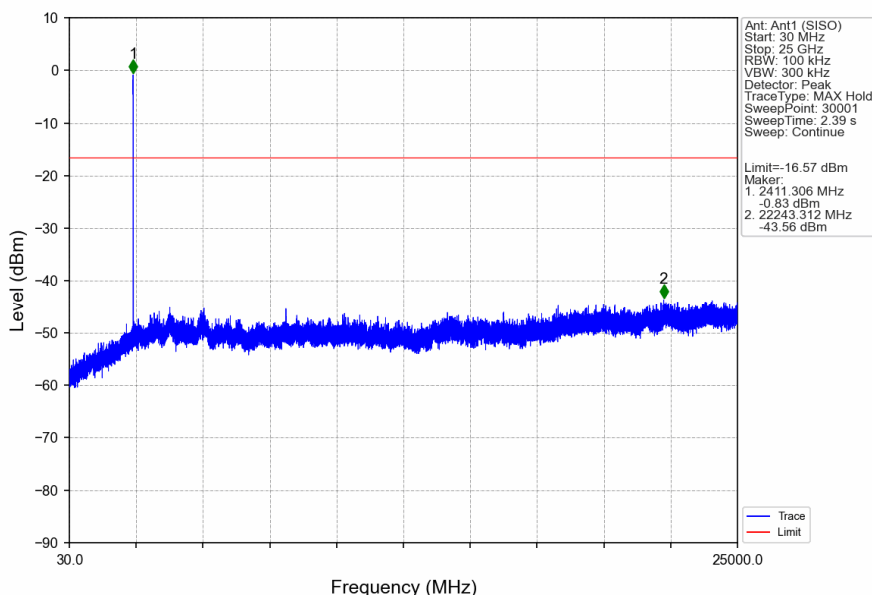
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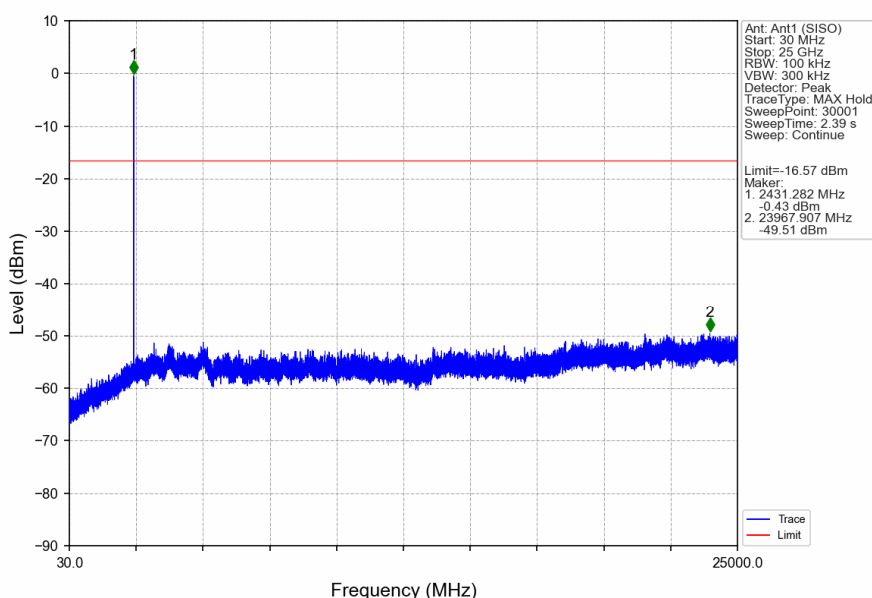
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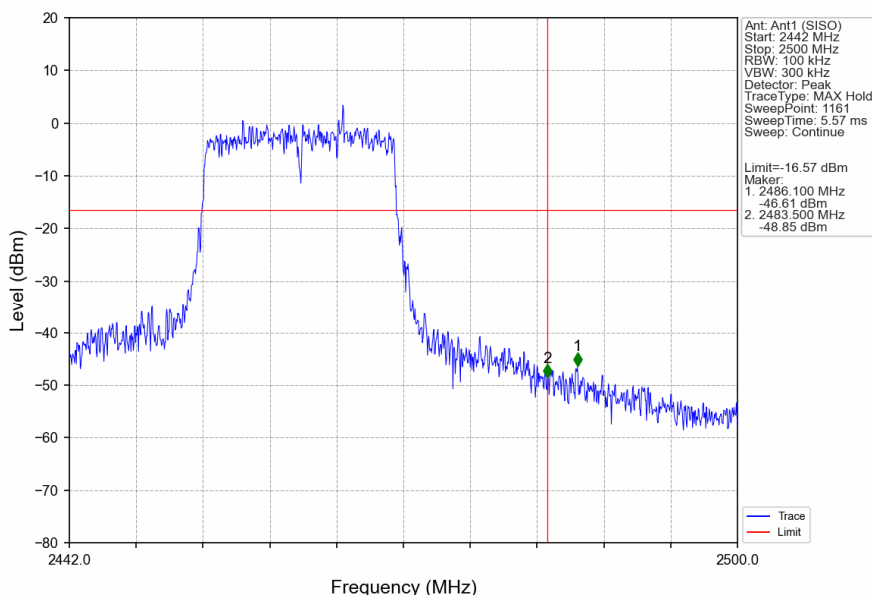
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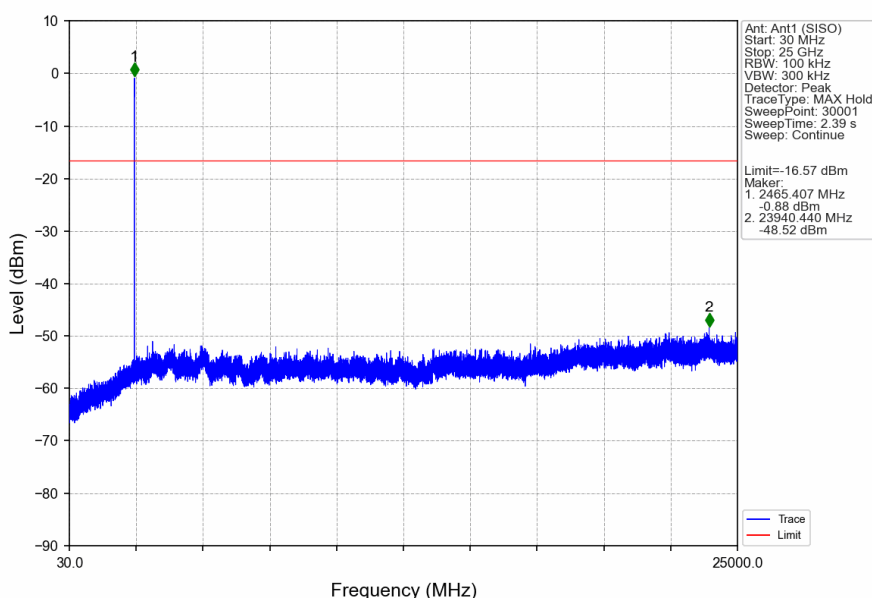
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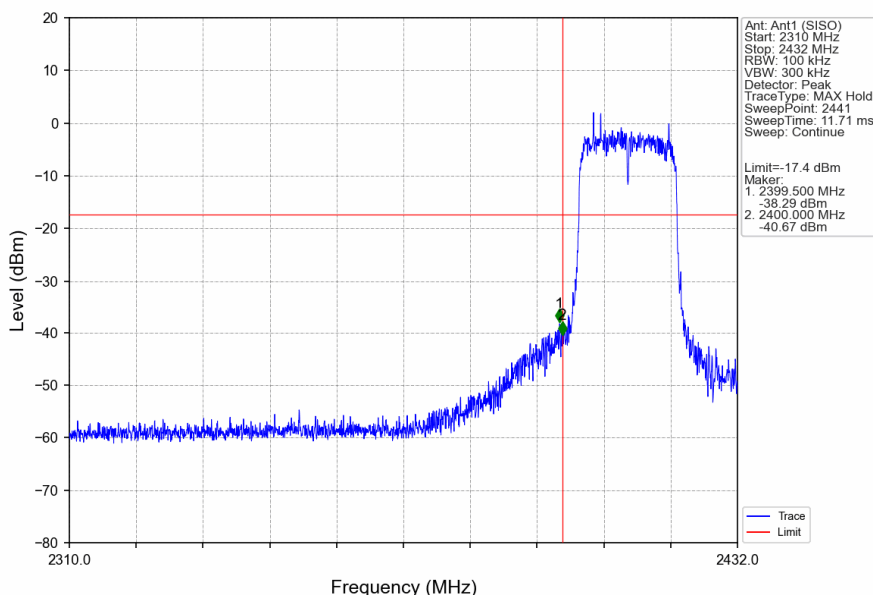
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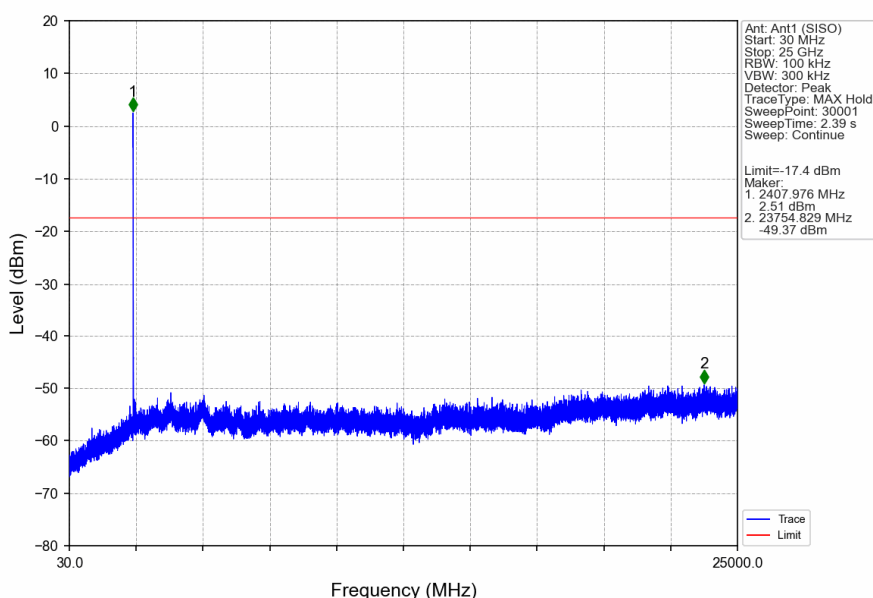
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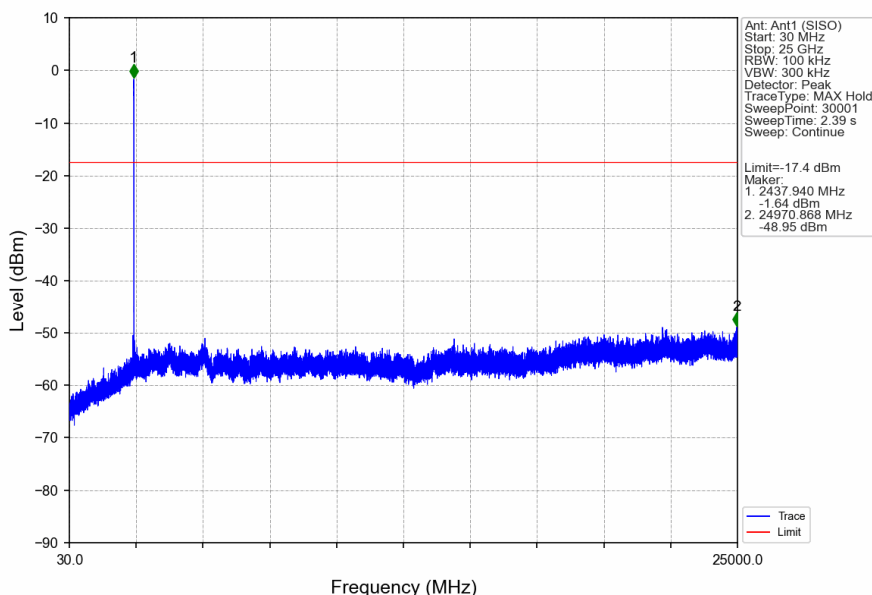
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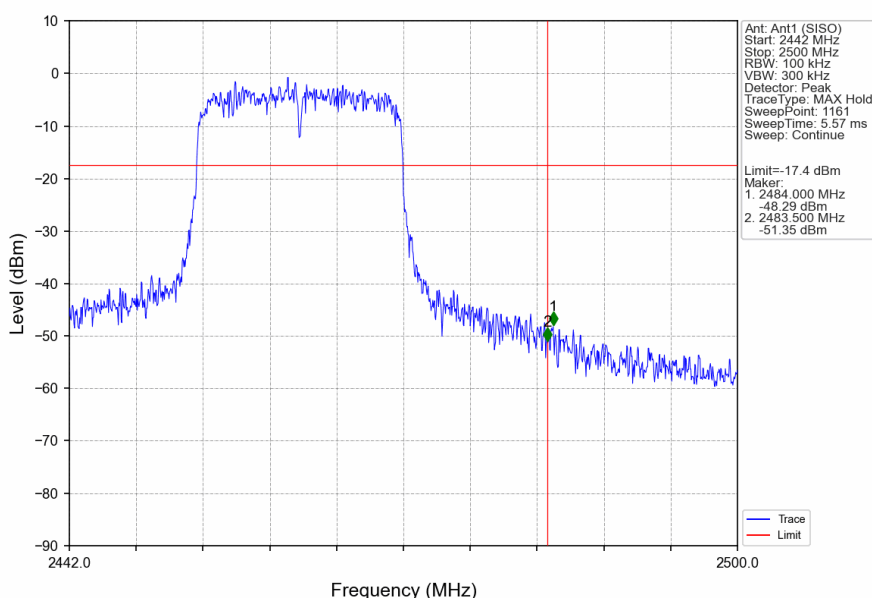
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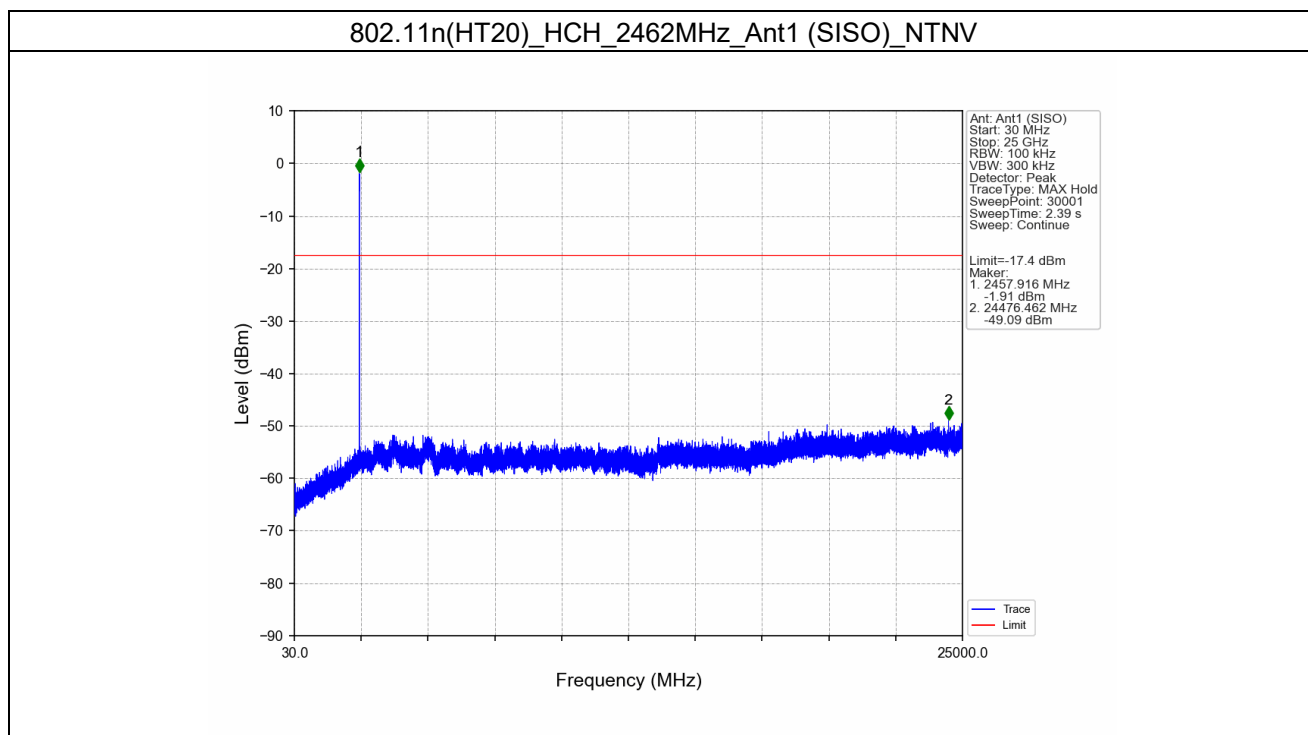


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





- End of the Report -