

Appendix A for KSCR2112000317AT

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	12.413	12.710	97.66	0.10	0.00
		2437	12.413	12.713	97.64	0.10	0.03
		2462	12.414	12.710	97.67	0.10	0.00
802.11g	SISO	2412	2.063	2.366	87.19	0.60	0.03
		2437	2.064	2.367	87.20	0.59	0.03
		2462	2.063	2.366	87.19	0.60	0.03
802.11n (HT20)	SISO	2412	1.919	2.222	86.36	0.64	0.04
		2437	1.920	2.223	86.37	0.64	0.04
		2462	1.920	2.223	86.37	0.64	0.04
802.11n (HT40)	SISO	2422	0.944	1.247	75.70	1.21	0.03
		2437	0.944	1.247	75.70	1.21	0.01
		2452	0.944	1.247	75.70	1.21	0.04

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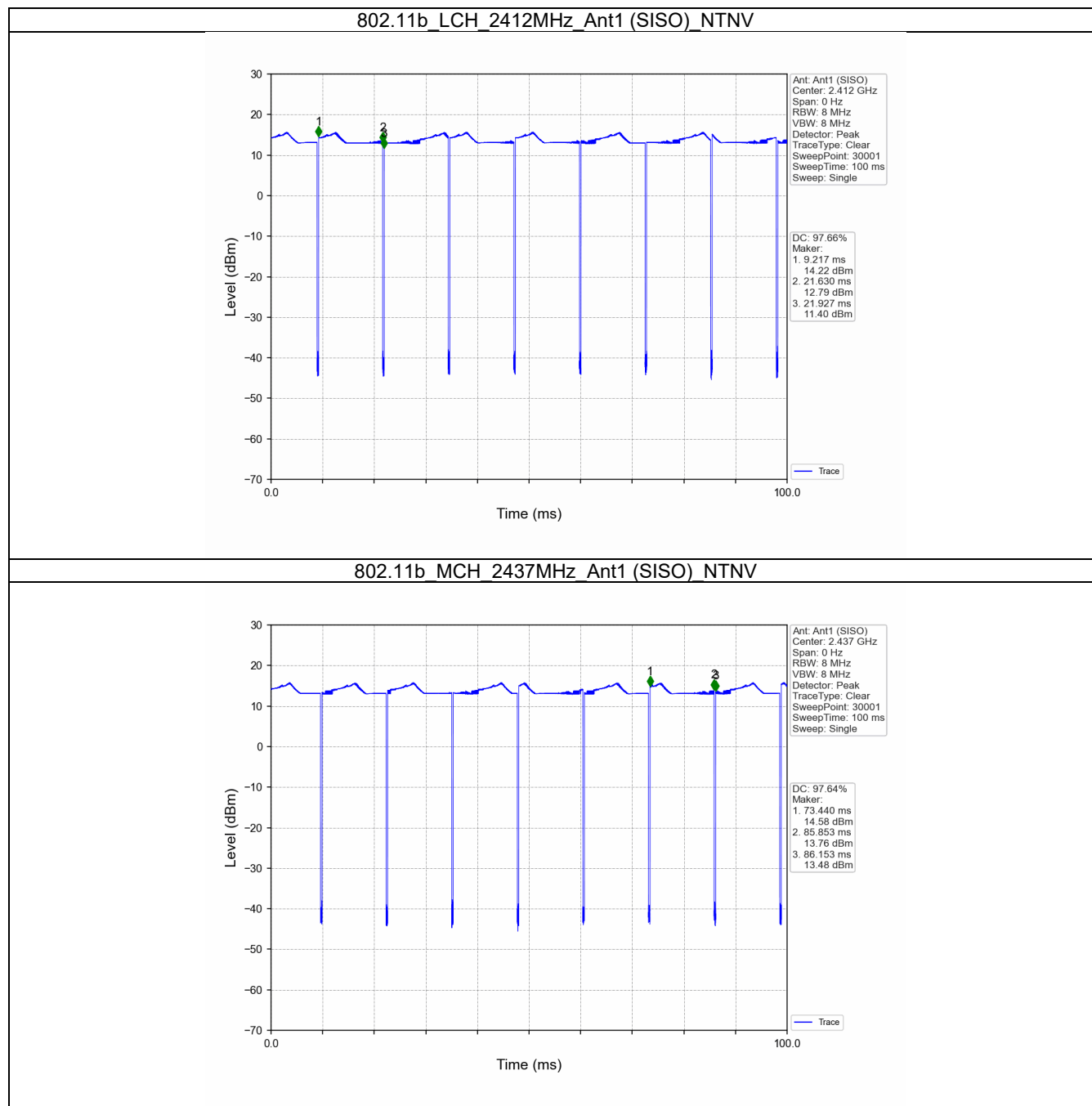
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1.1.2 Test Graph



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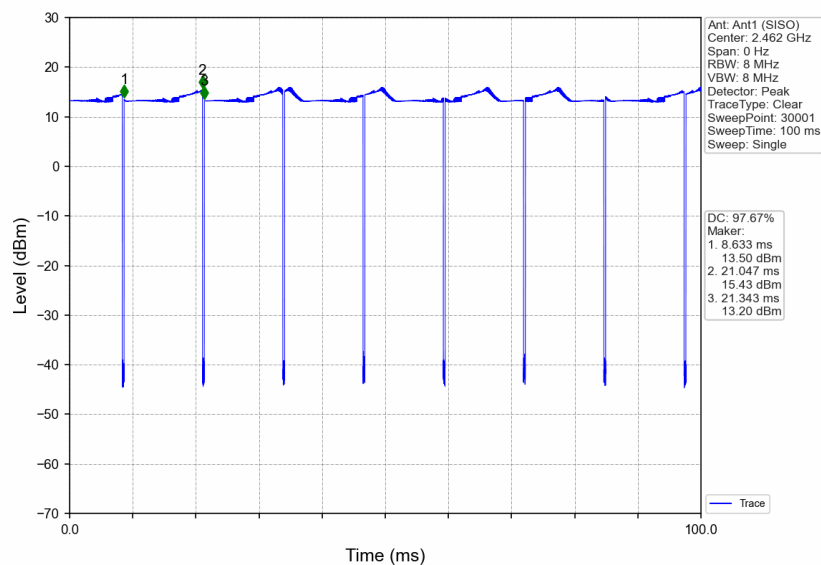
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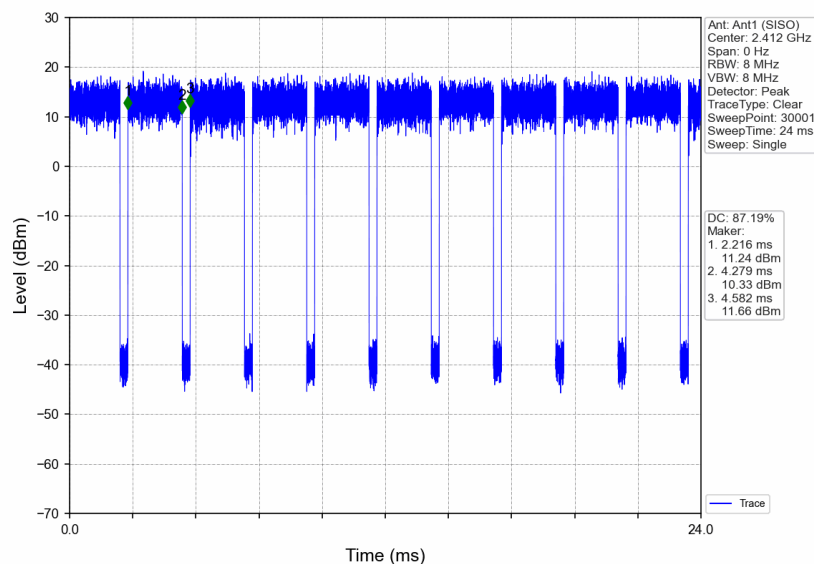
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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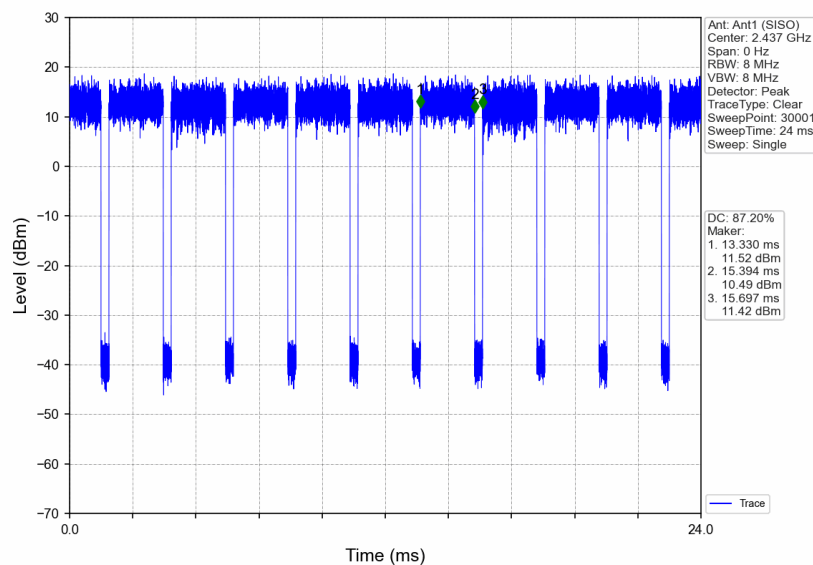
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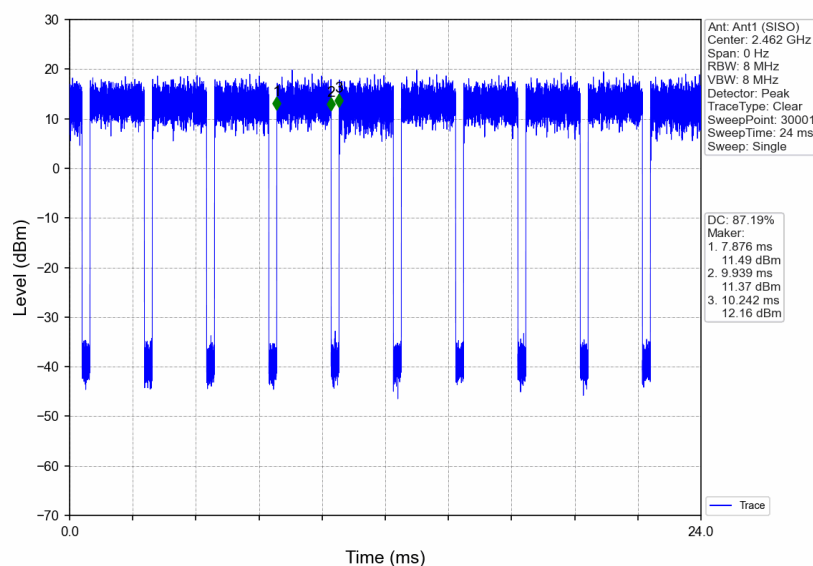
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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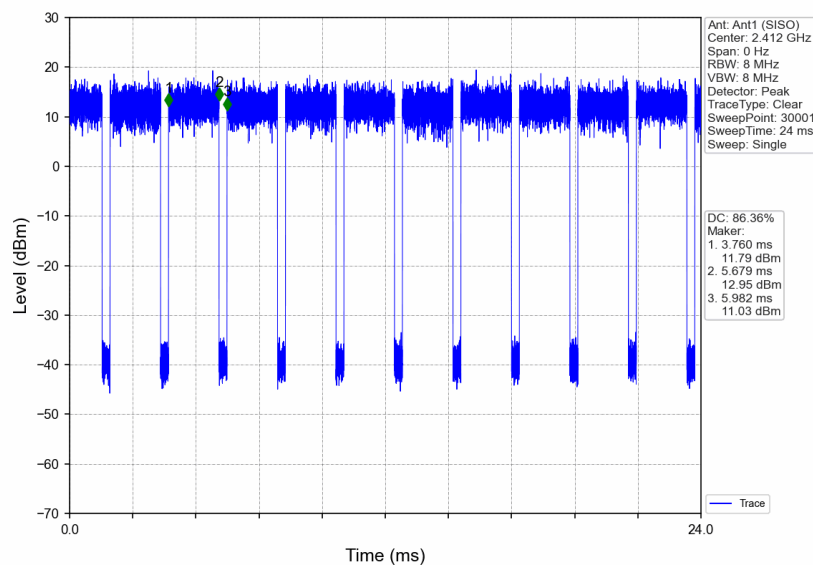
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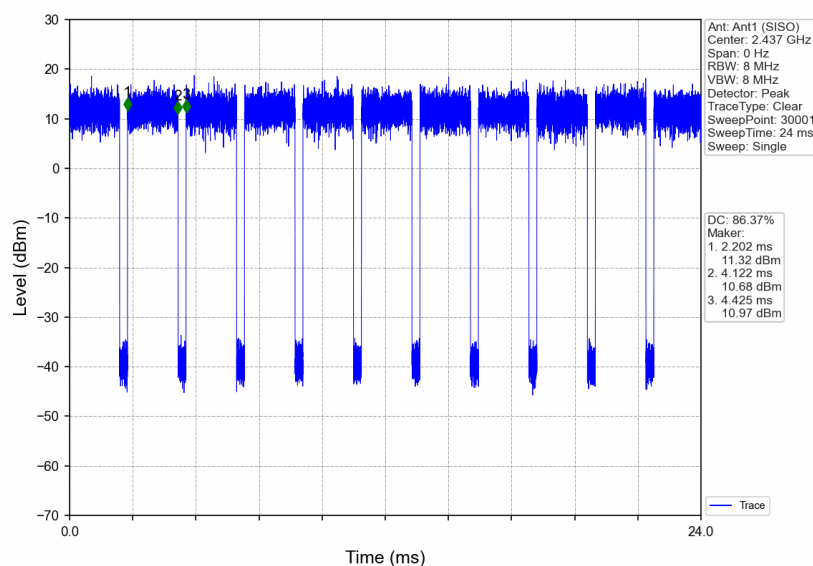
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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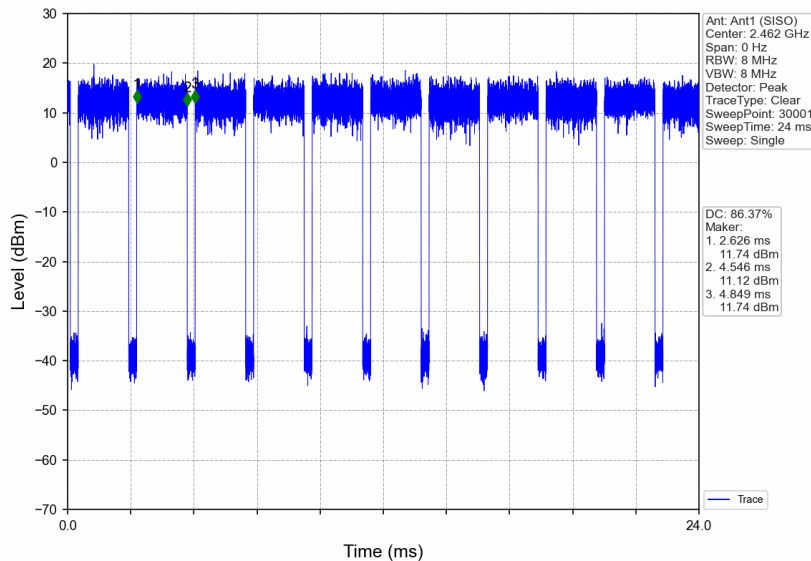
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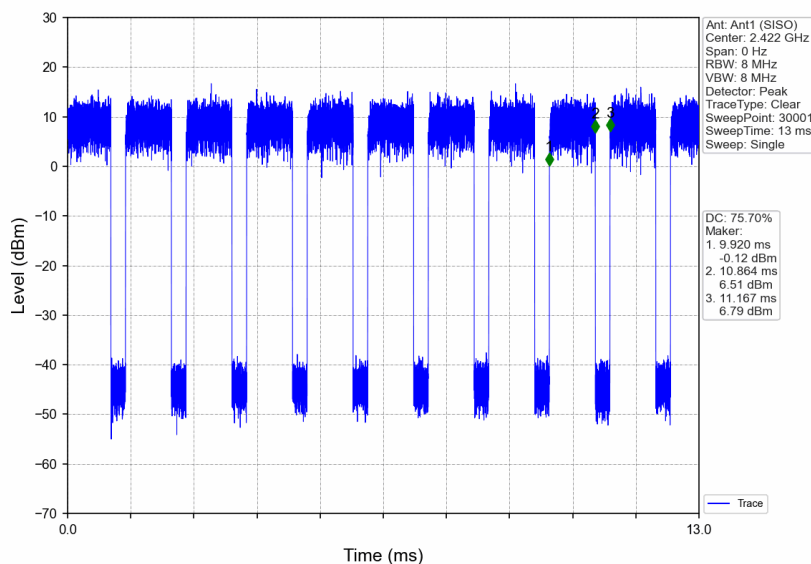
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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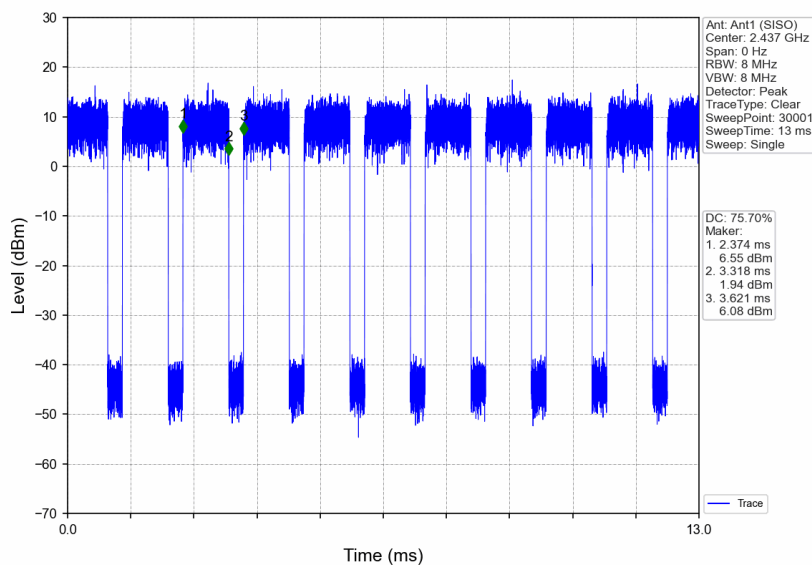
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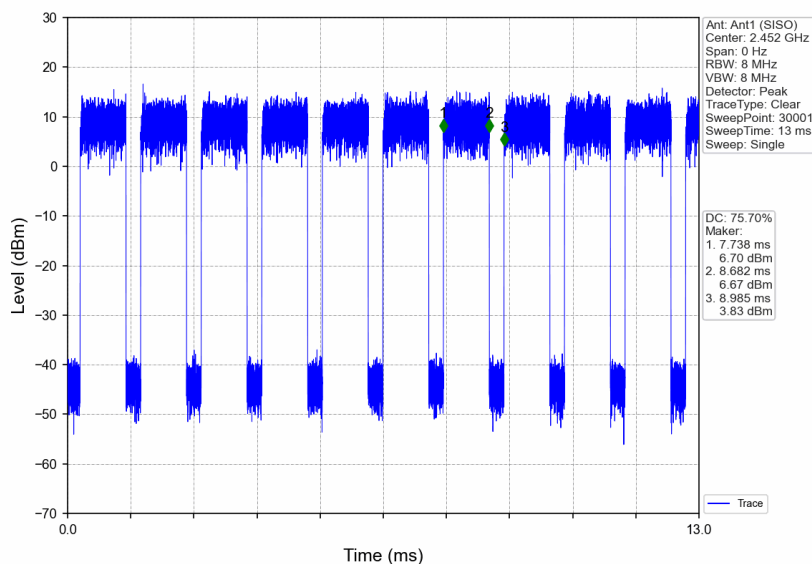
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	11.628	Pass
		2437	1	11.650	Pass
		2462	1	11.766	Pass
802.11g	SISO	2412	1	17.718	Pass
		2437	1	17.959	Pass
		2462	1	17.620	Pass
802.11n (HT20)	SISO	2412	1	18.603	Pass
		2437	1	18.933	Pass
		2462	1	18.539	Pass
802.11n (HT40)	SISO	2422	1	36.775	Pass
		2437	1	36.756	Pass
		2452	1	36.720	Pass



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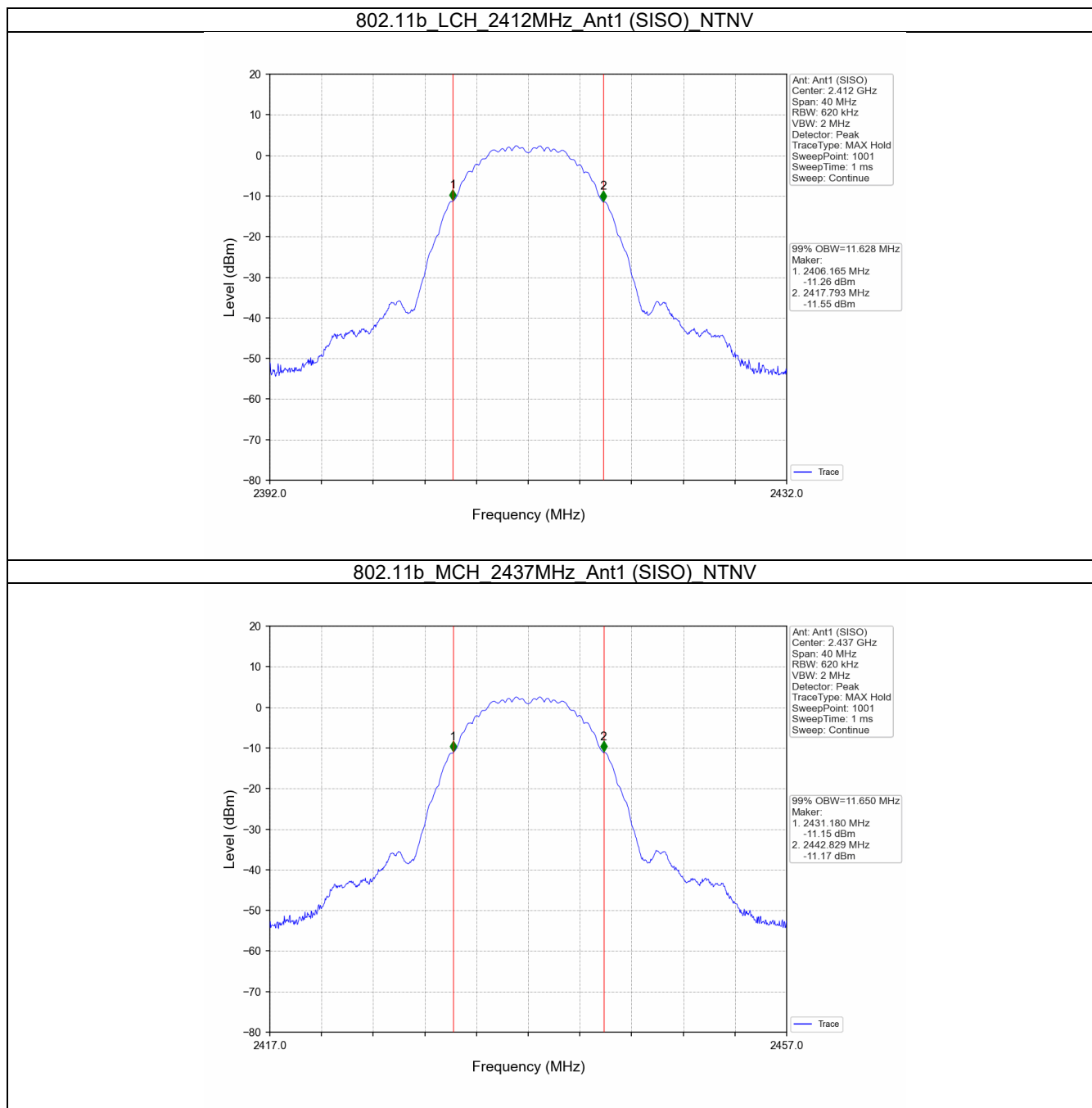
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2.1.2 Test Graph



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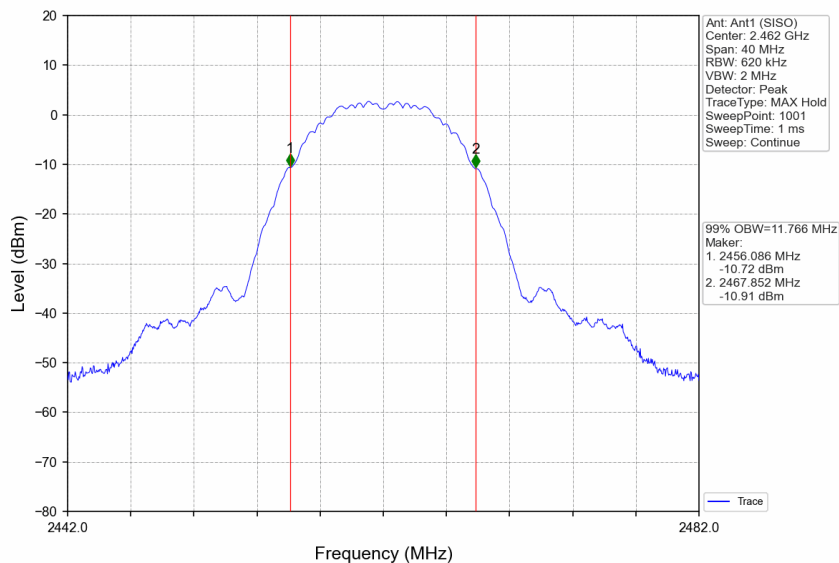
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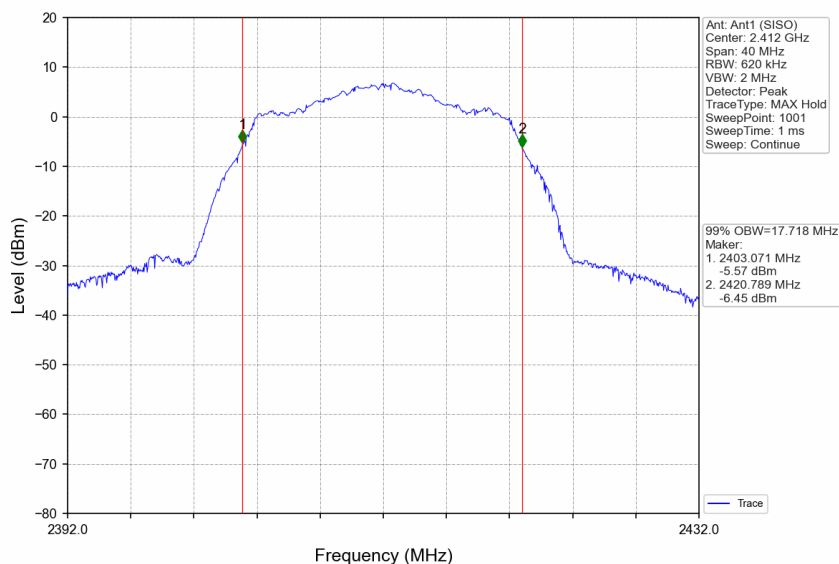
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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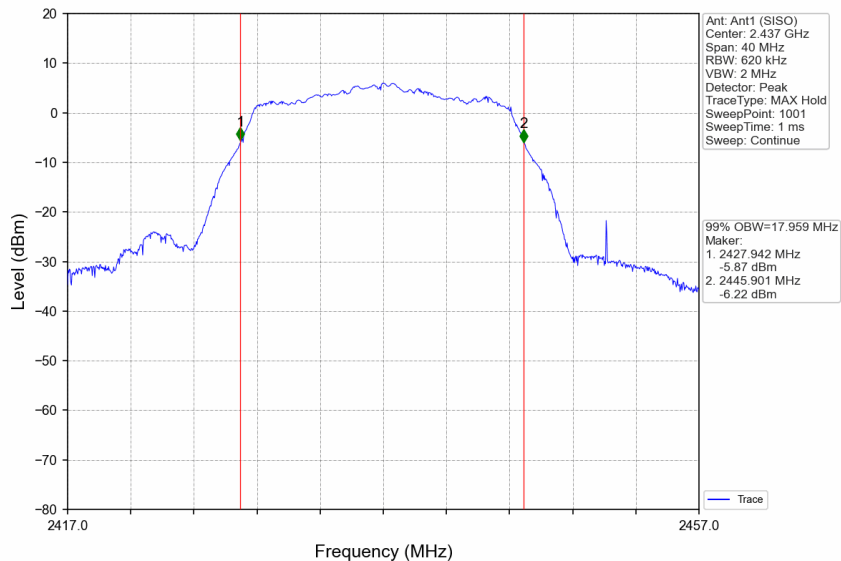
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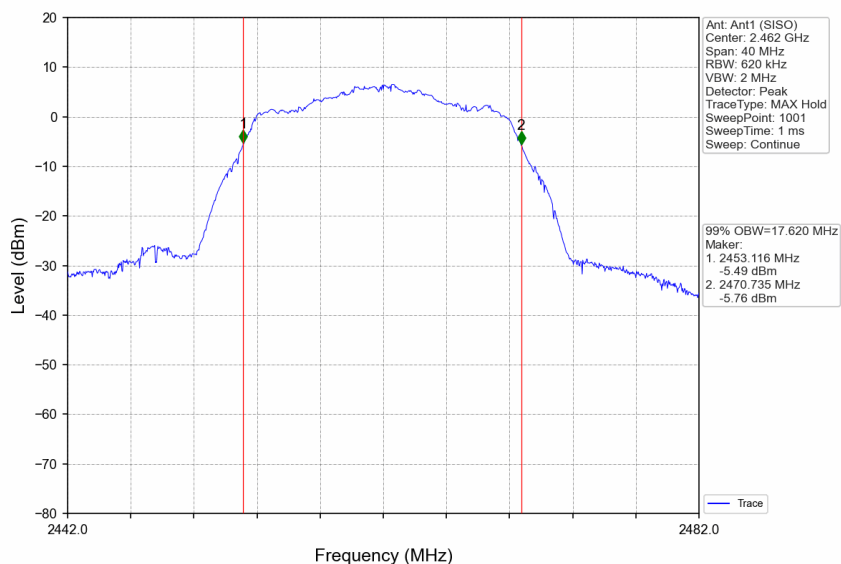
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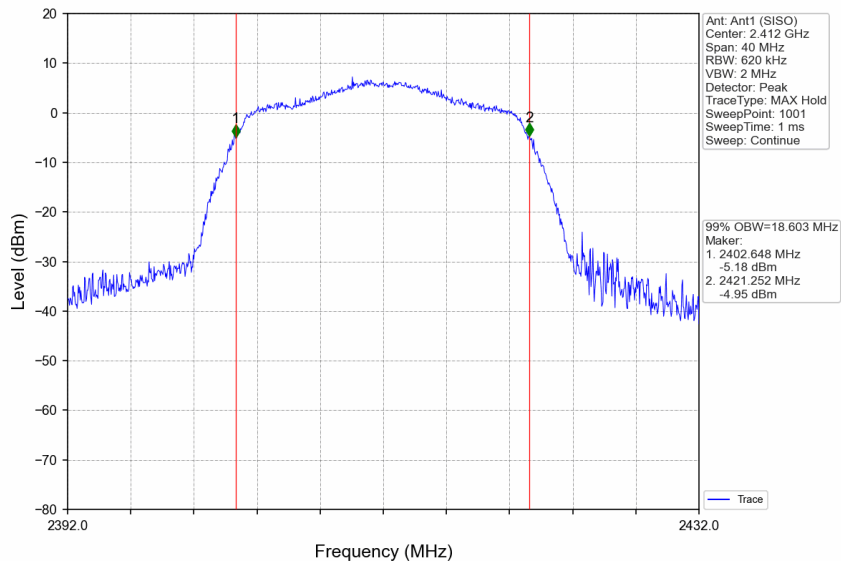
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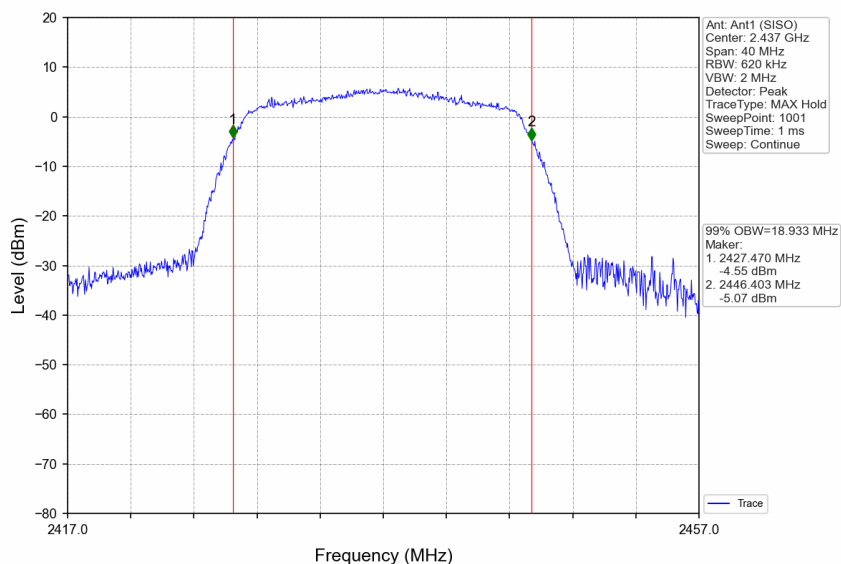
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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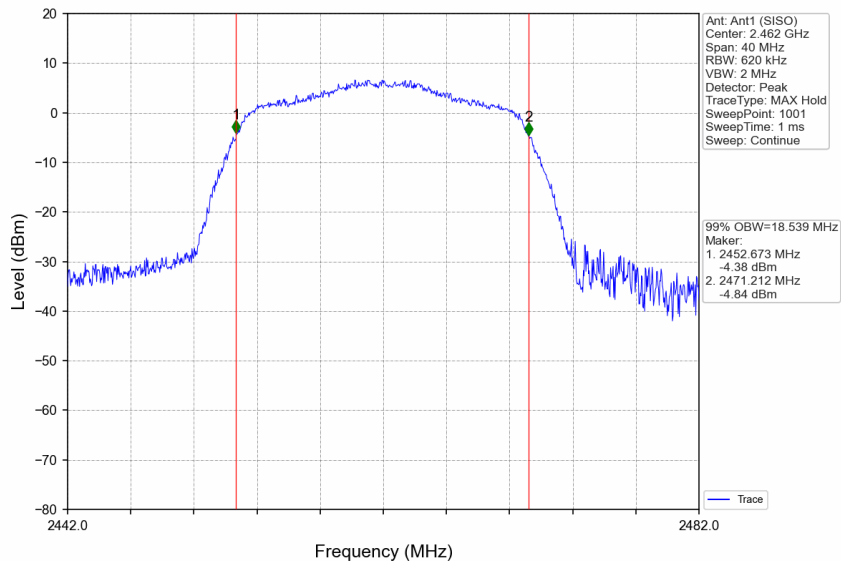
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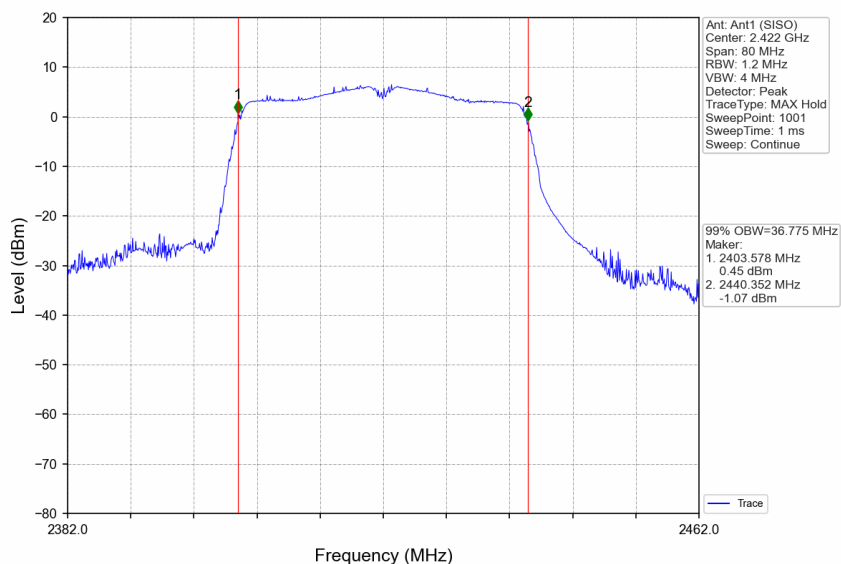
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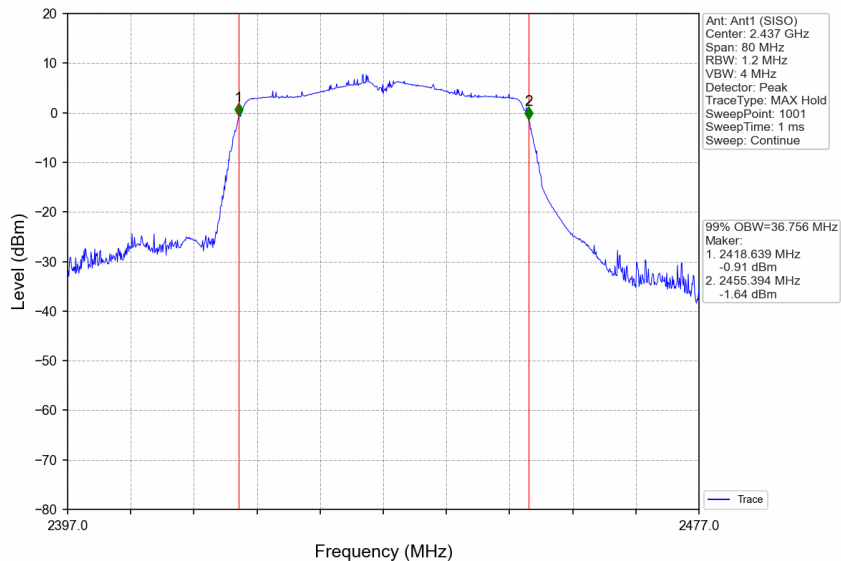
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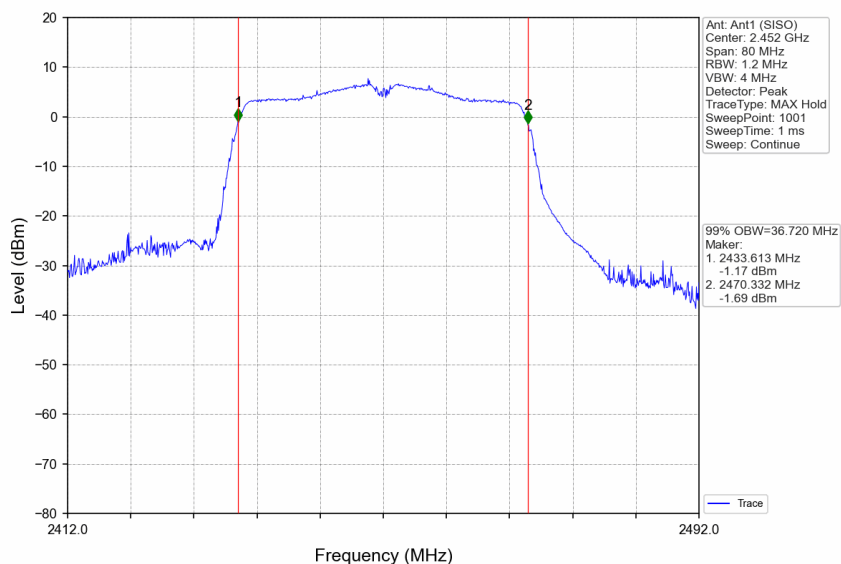
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.112	≥ 0.5	Pass
		2437	1	8.112	≥ 0.5	Pass
		2462	1	8.584	≥ 0.5	Pass
802.11g	SISO	2412	1	15.217	≥ 0.5	Pass
		2437	1	16.342	≥ 0.5	Pass
		2462	1	16.025	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.486	≥ 0.5	Pass
		2437	1	17.320	≥ 0.5	Pass
		2462	1	15.218	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.860	≥ 0.5	Pass
		2437	1	35.551	≥ 0.5	Pass
		2452	1	35.411	≥ 0.5	Pass



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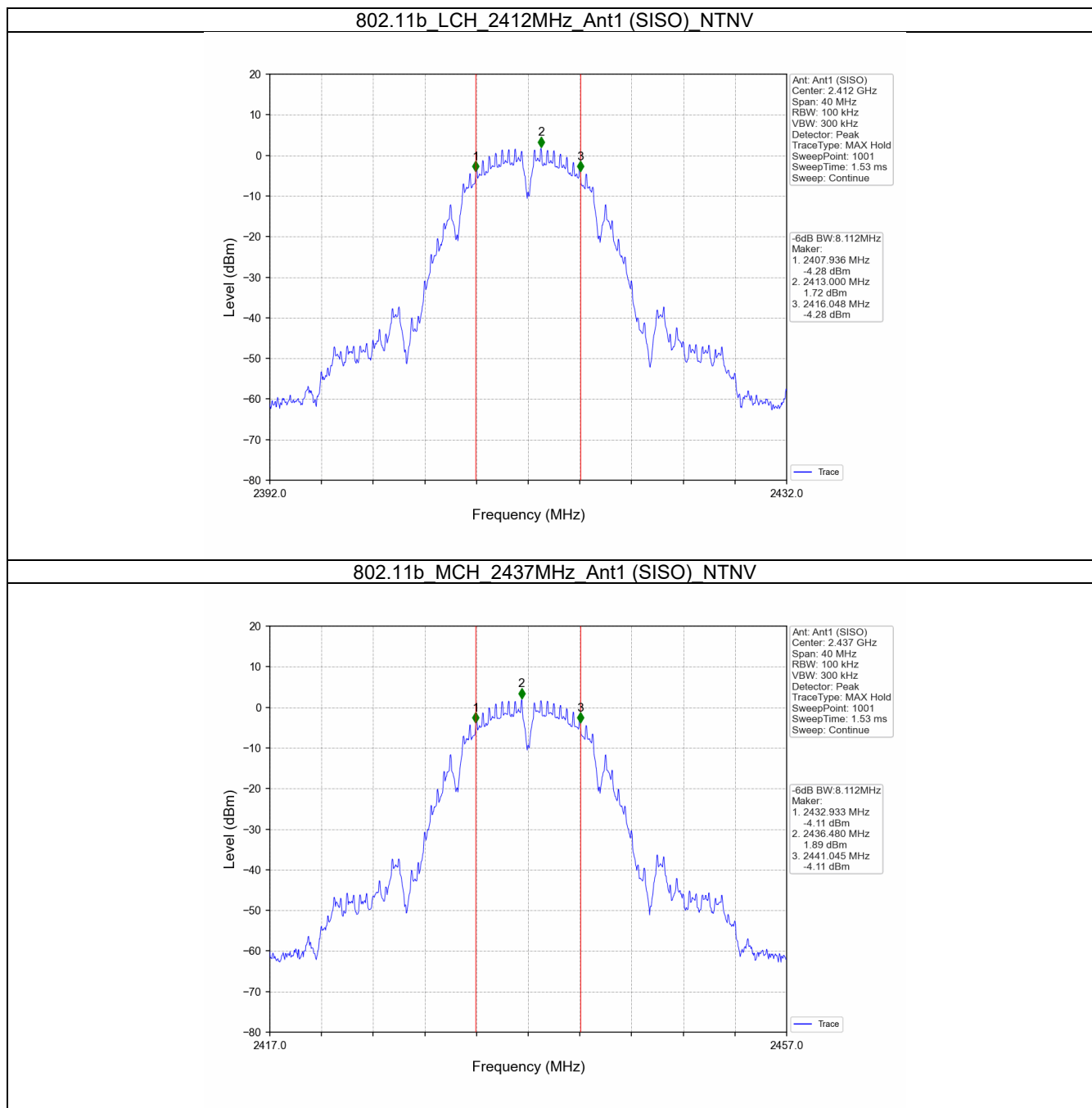
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2.2.2 Test Graph



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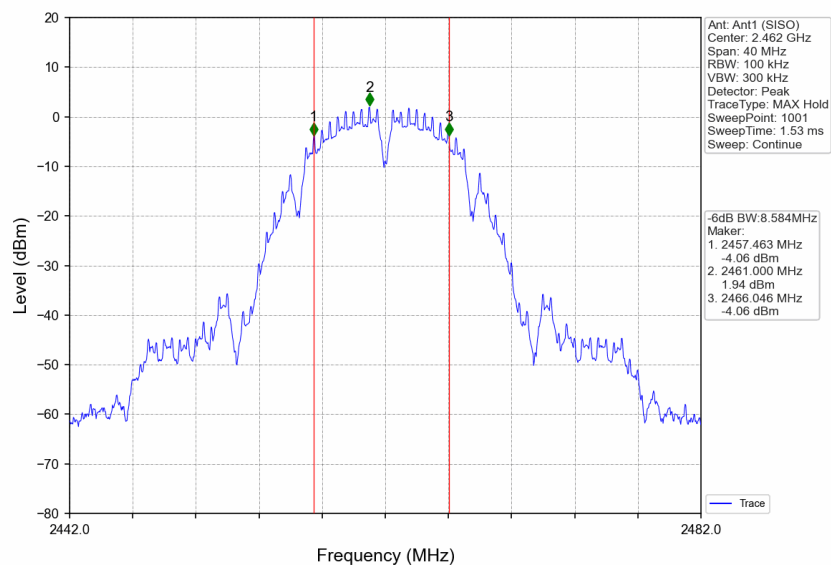
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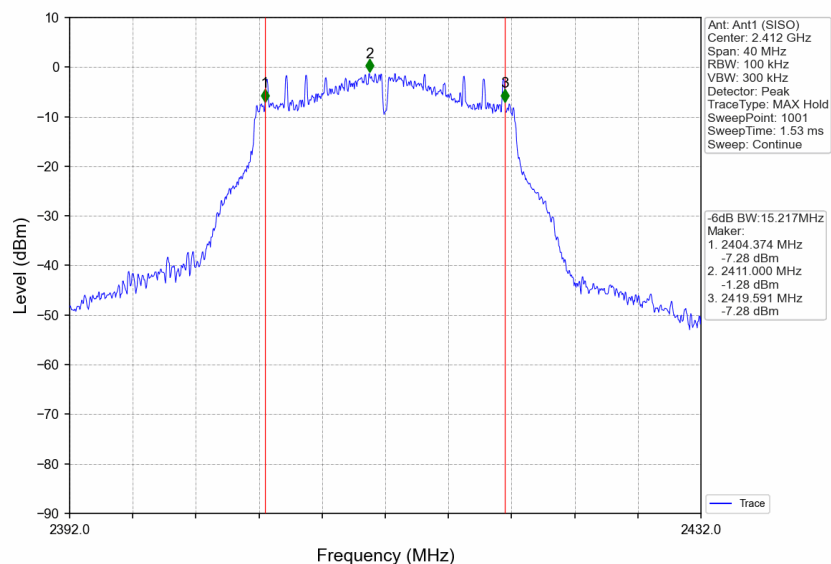
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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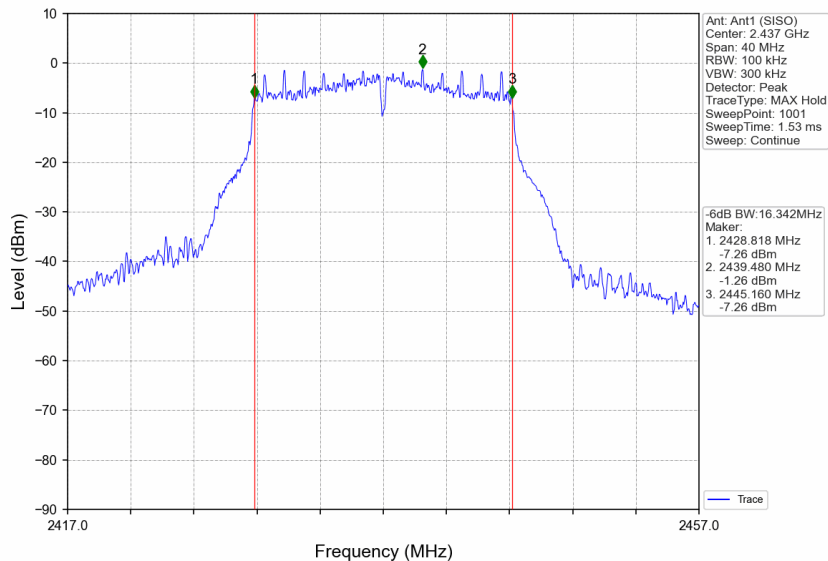
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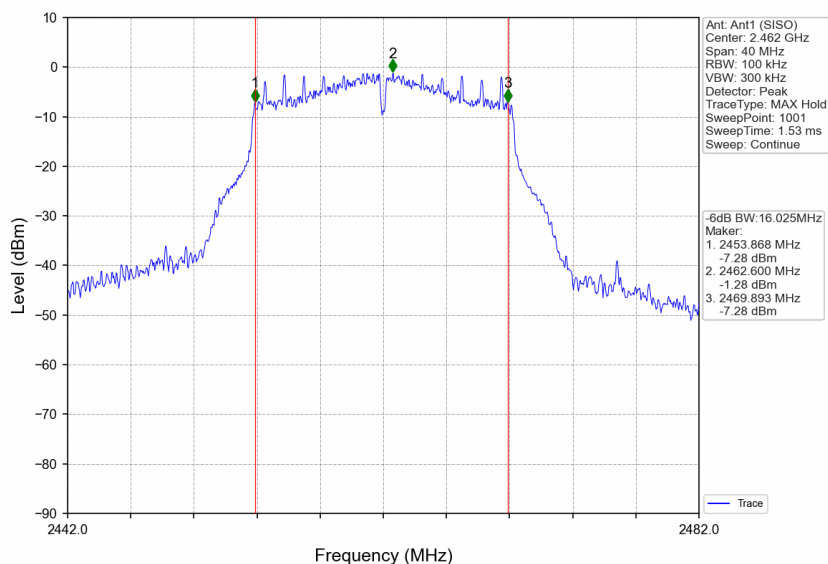
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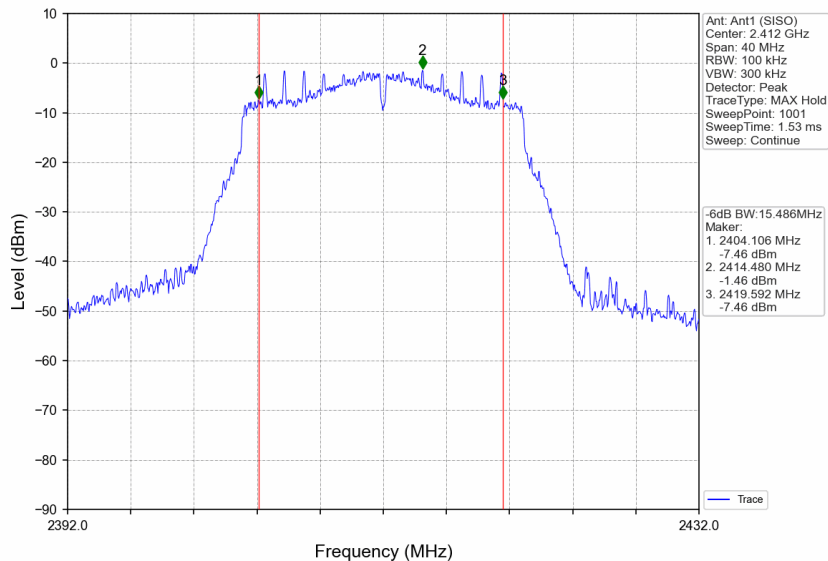
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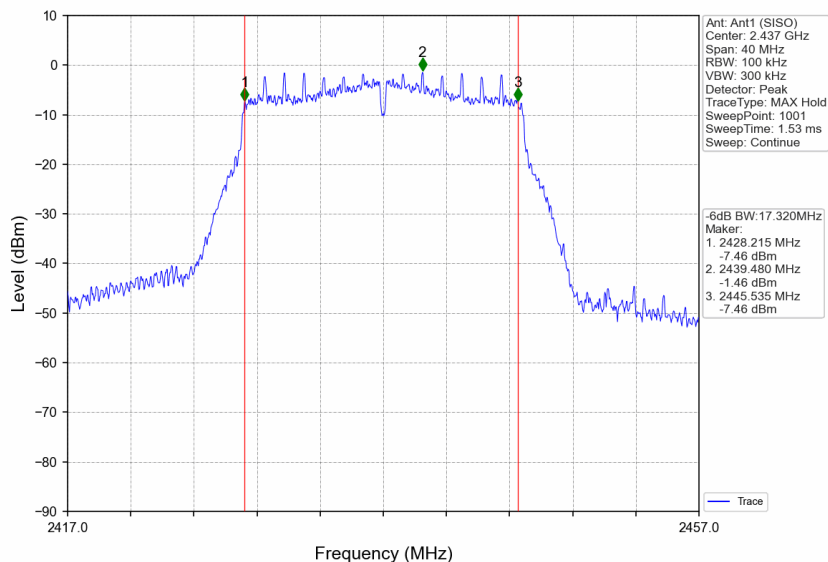
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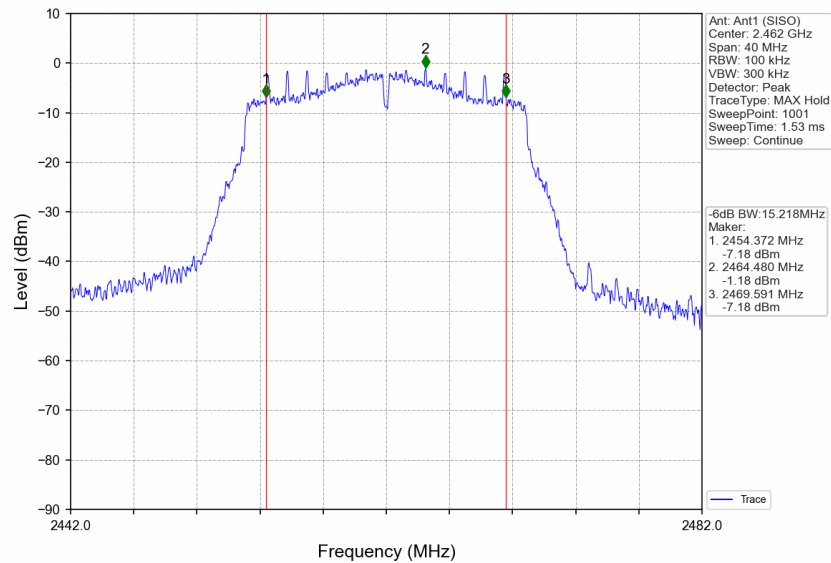
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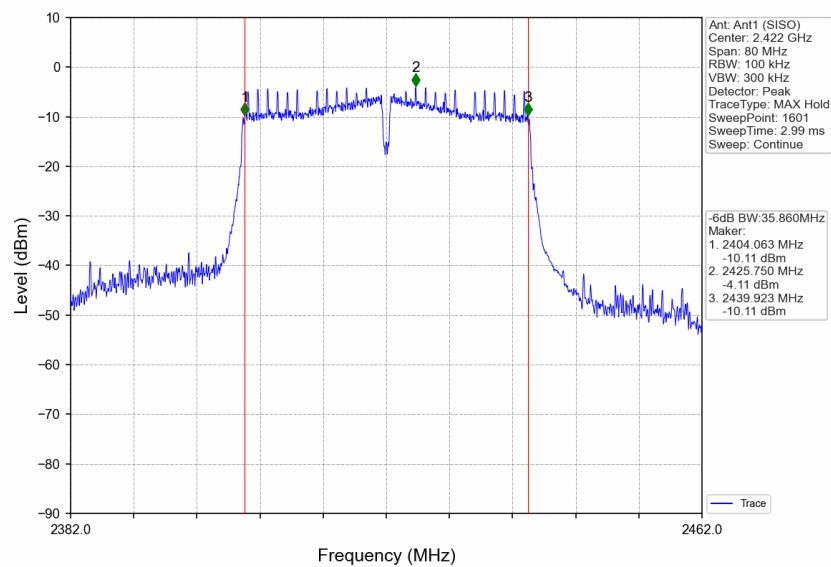
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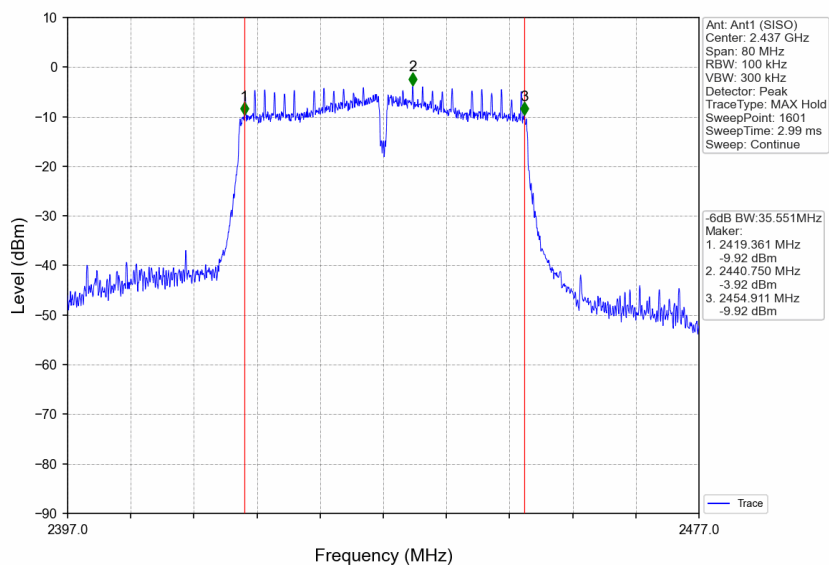
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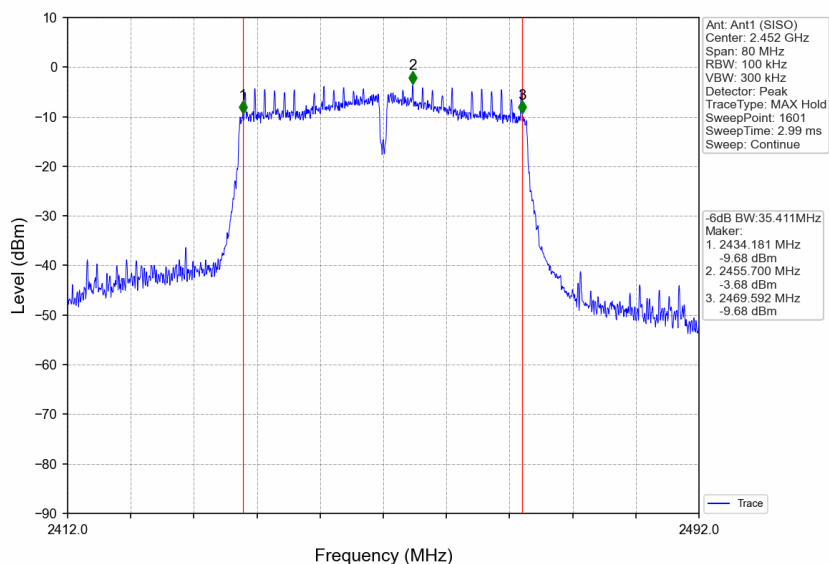
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3. Maximum Conducted Output Power

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	9.91	<=30	Pass
		2437	10.16	<=30	Pass
		2462	10.33	<=30	Pass
802.11g	SISO	2412	10.38	<=30	Pass
		2437	10.29	<=30	Pass
		2462	10.45	<=30	Pass
802.11n (HT20)	SISO	2412	9.80	<=30	Pass
		2437	9.72	<=30	Pass
		2462	9.81	<=30	Pass
802.11n (HT40)	SISO	2422	9.92	<=30	Pass
		2437	10.01	<=30	Pass
		2452	10.07	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;



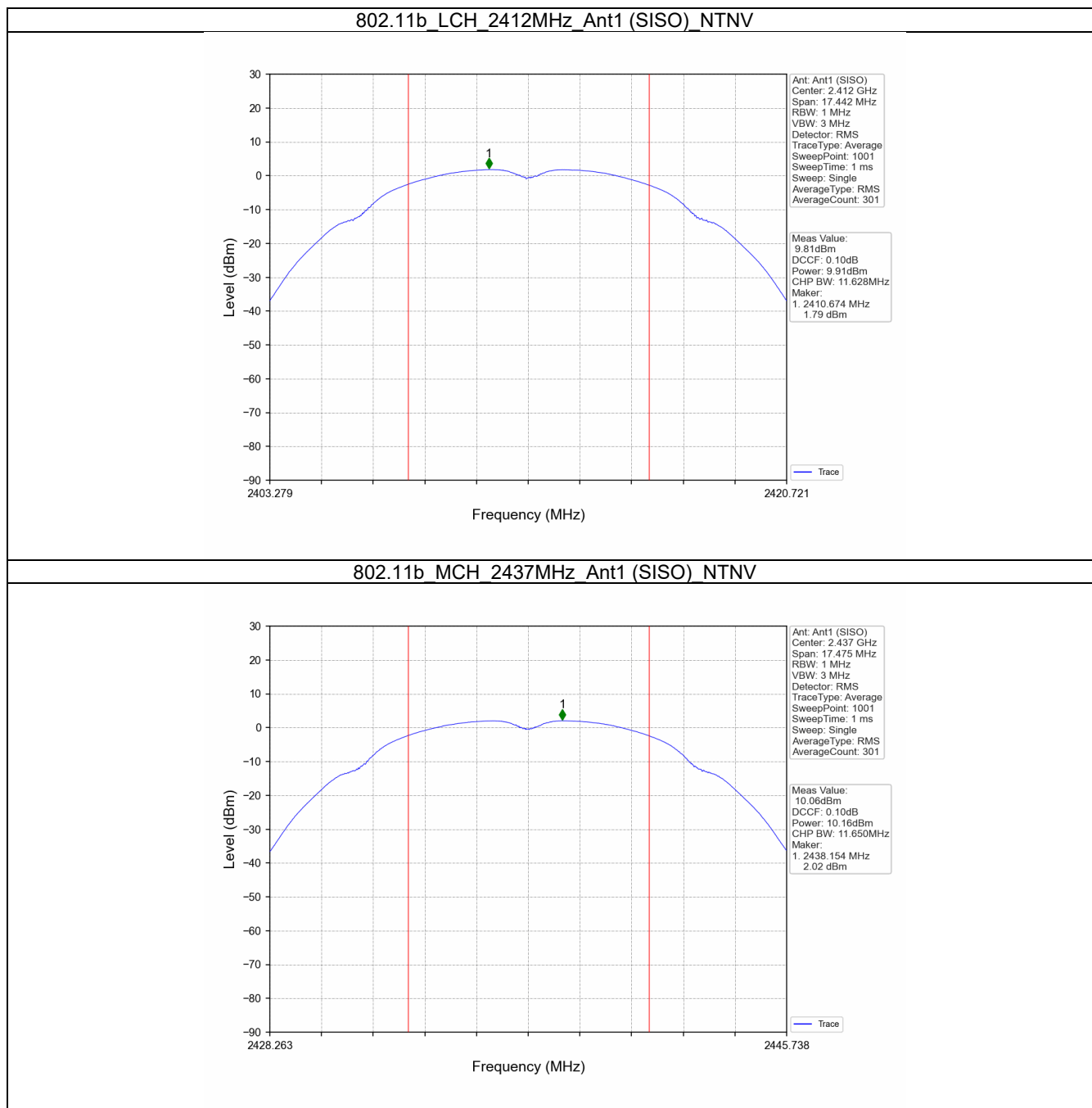
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3.1.2 Test Graph



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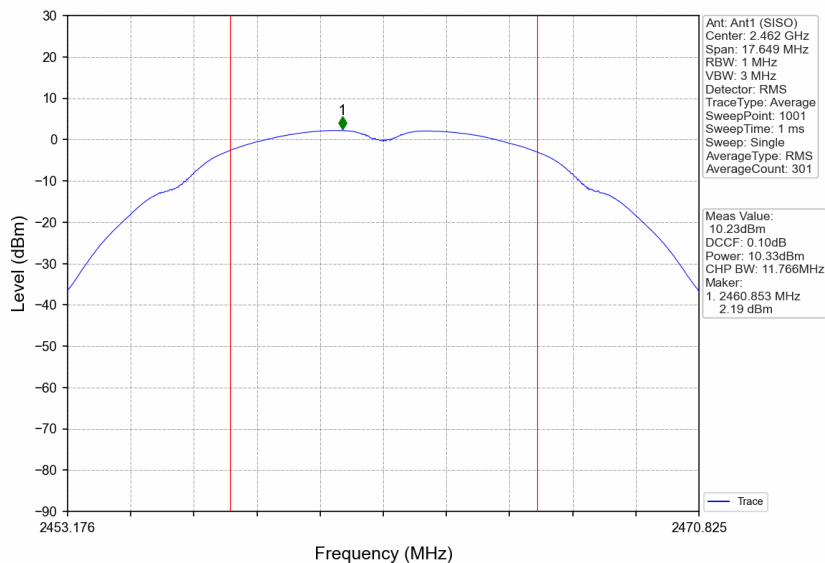
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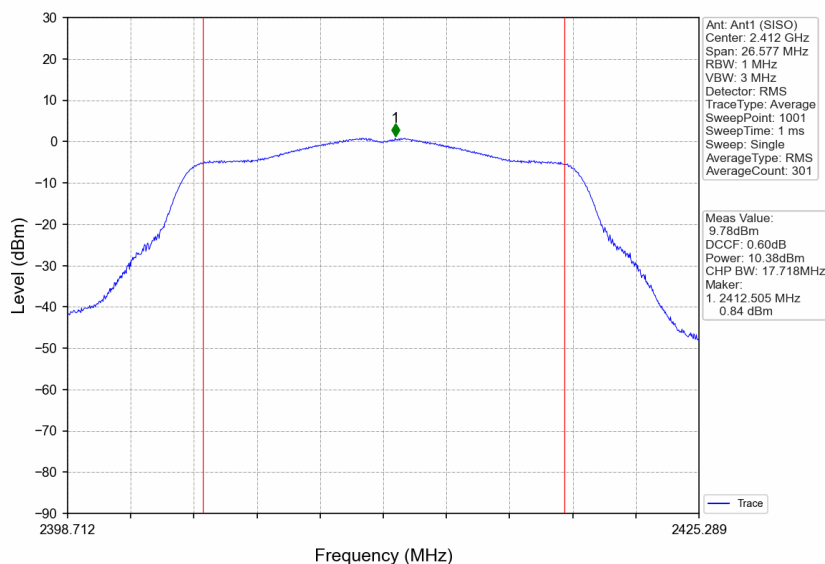
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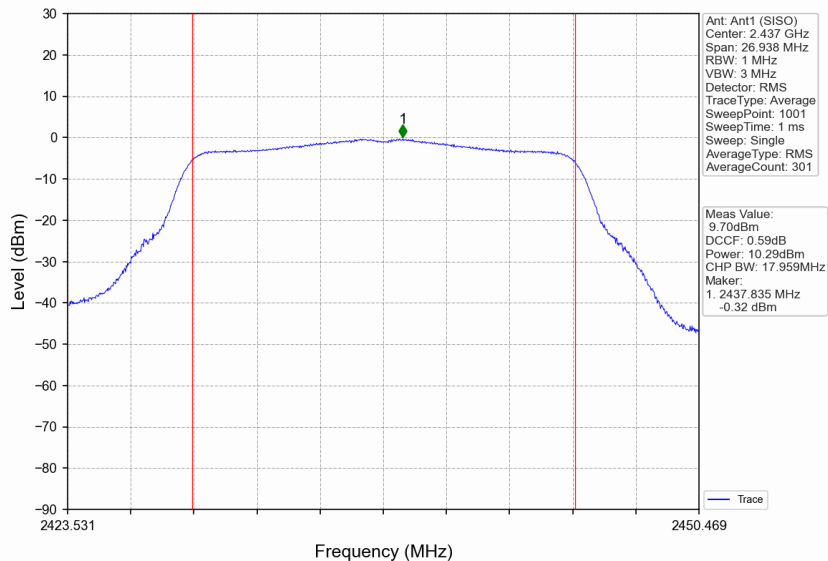
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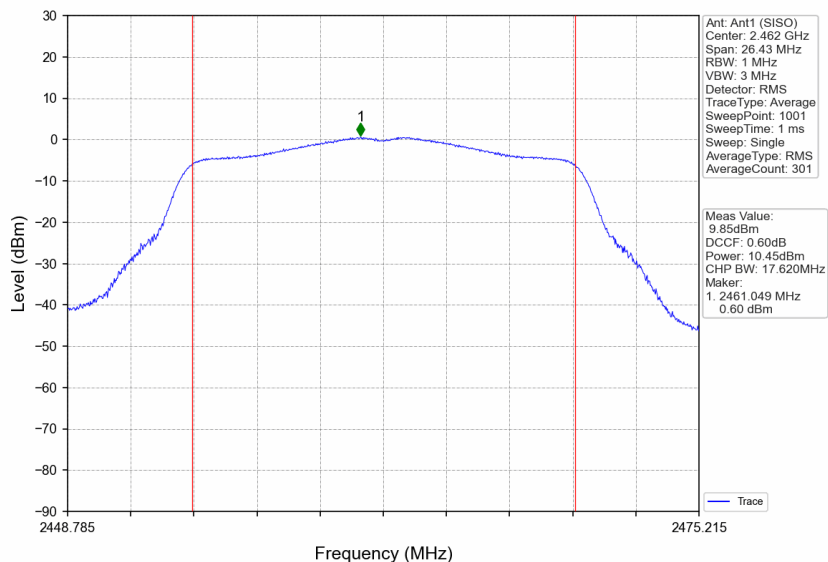
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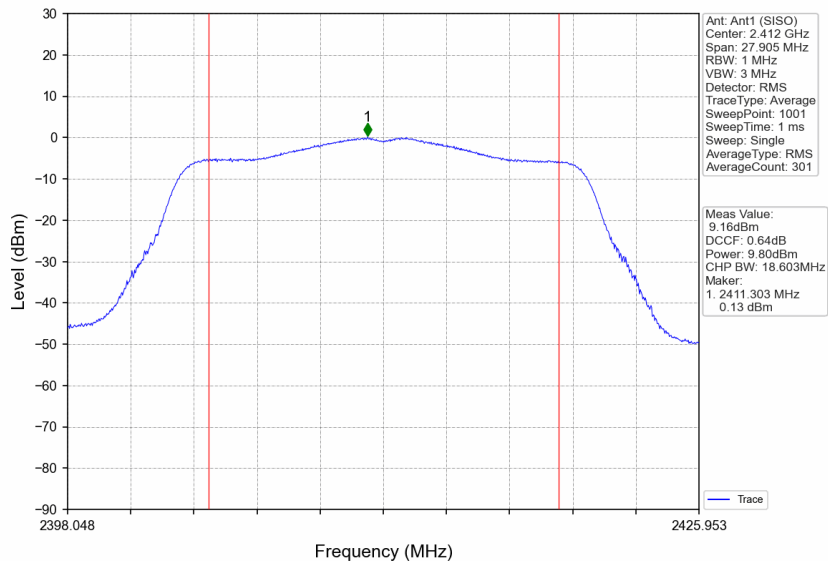
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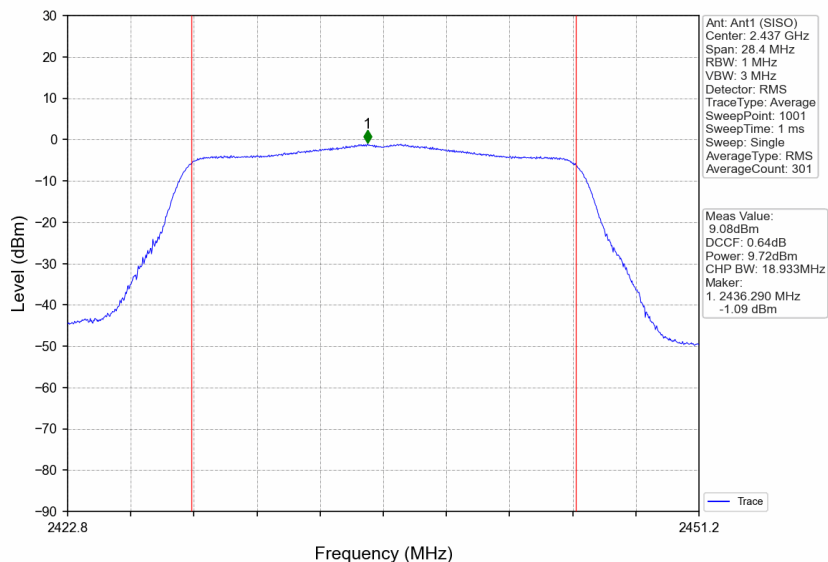
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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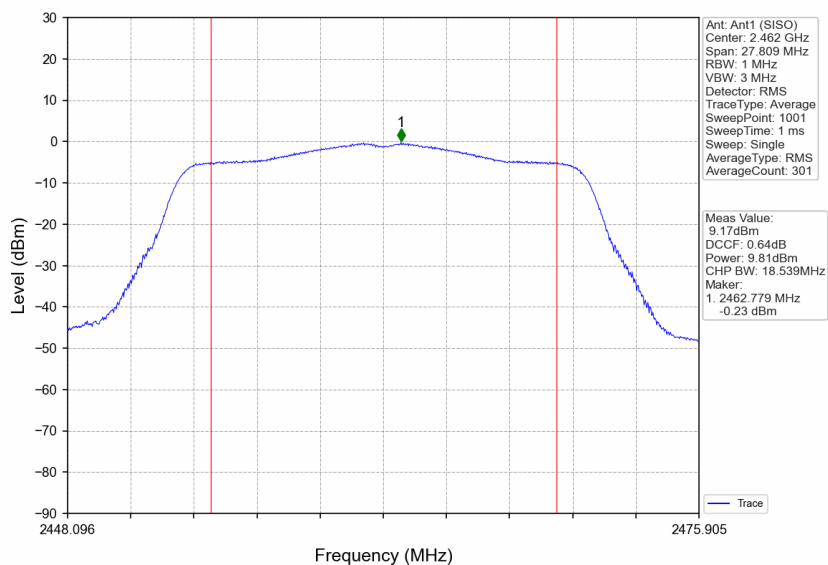
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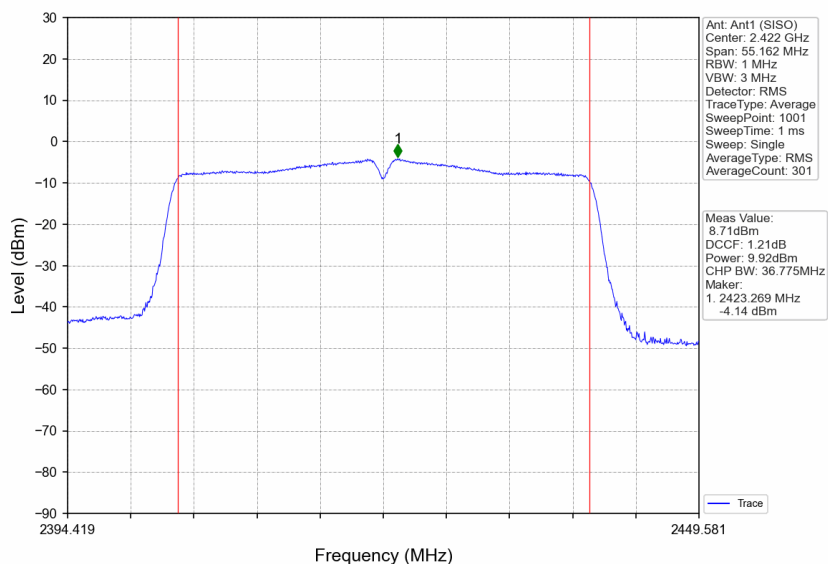
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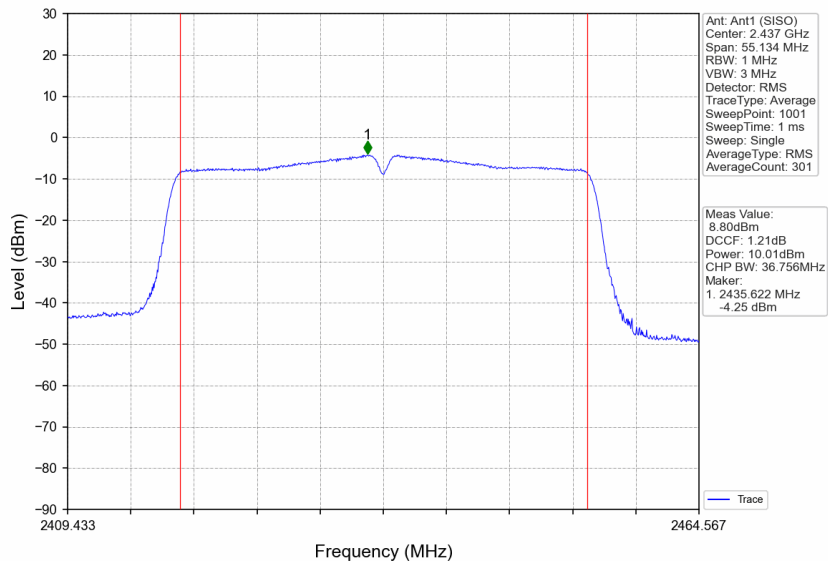
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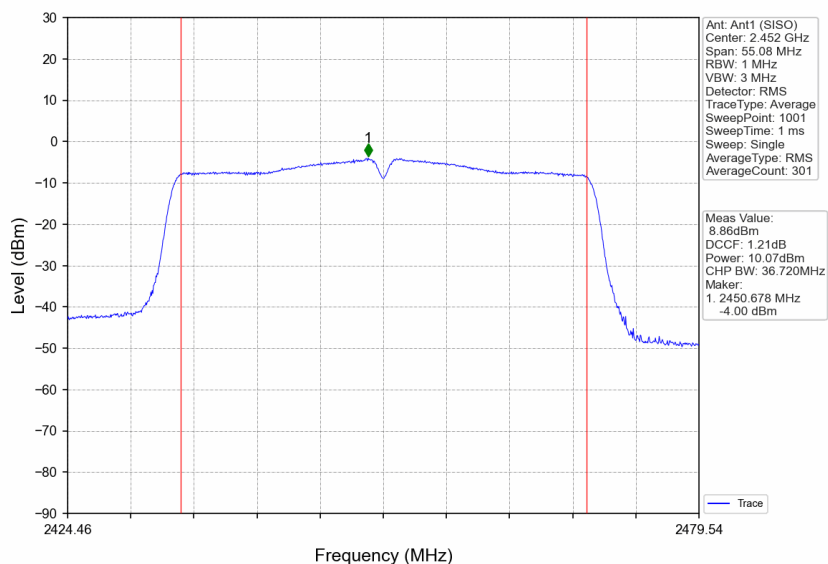
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-13.38	<=8	Pass
		2437	-12.75	<=8	Pass
		2462	-10.03	<=8	Pass
802.11g	SISO	2412	-12.38	<=8	Pass
		2437	-13.49	<=8	Pass
		2462	-12.64	<=8	Pass
802.11n (HT20)	SISO	2412	-13.72	<=8	Pass
		2437	-13.27	<=8	Pass
		2462	-13.31	<=8	Pass
802.11n (HT40)	SISO	2422	-18.33	<=8	Pass
		2437	-17.79	<=8	Pass
		2452	-17.78	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;



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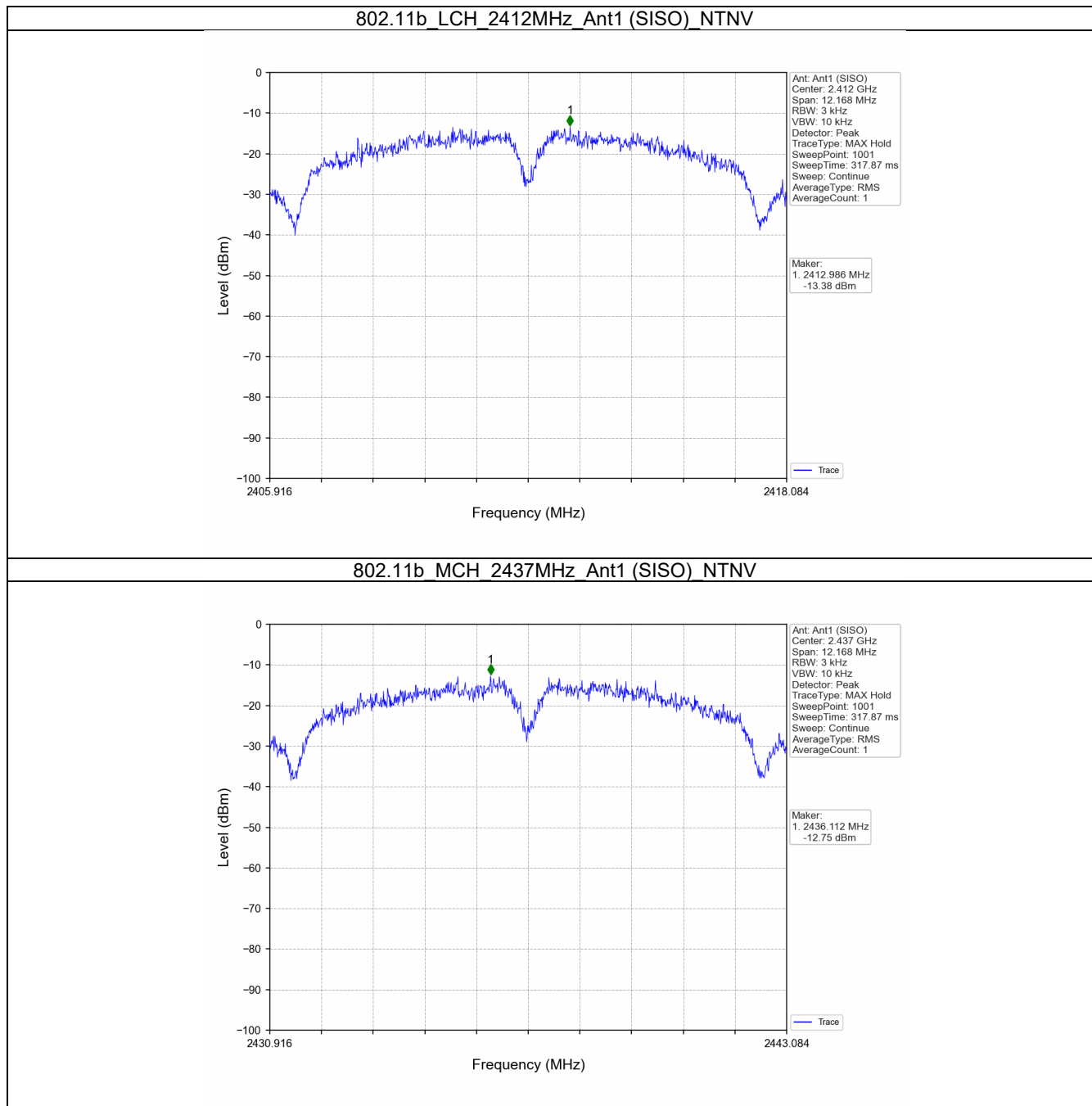
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4.1.2 Test Graph



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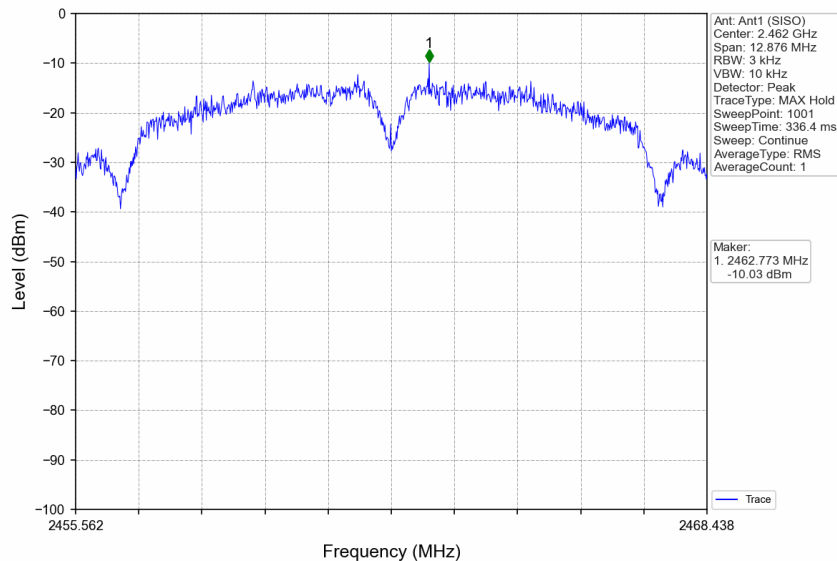
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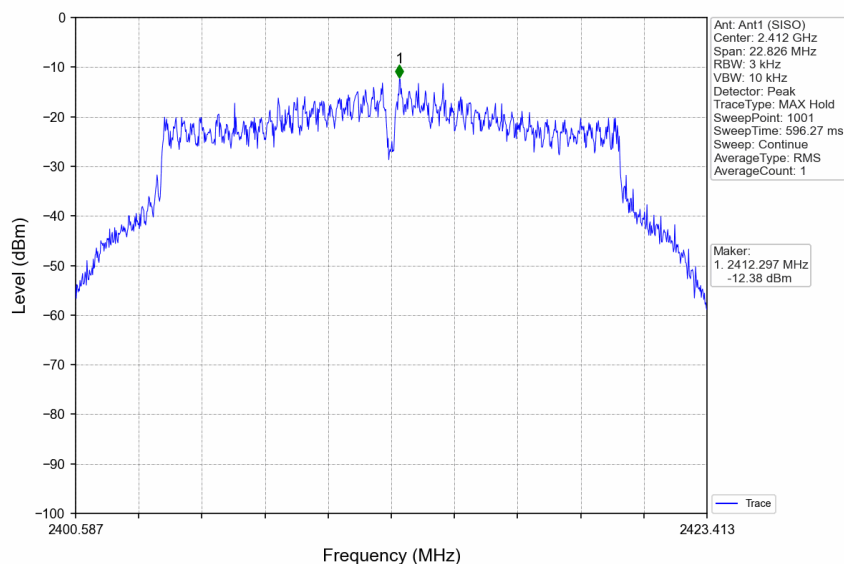
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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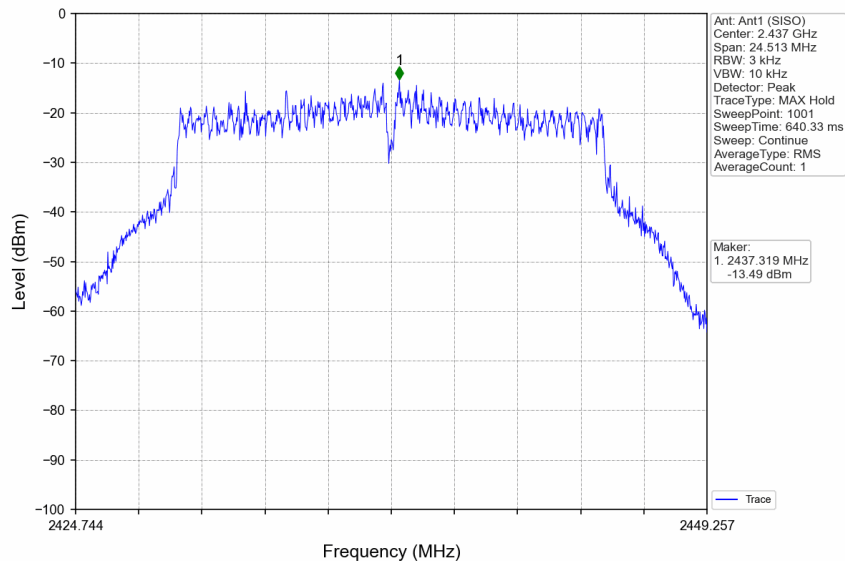
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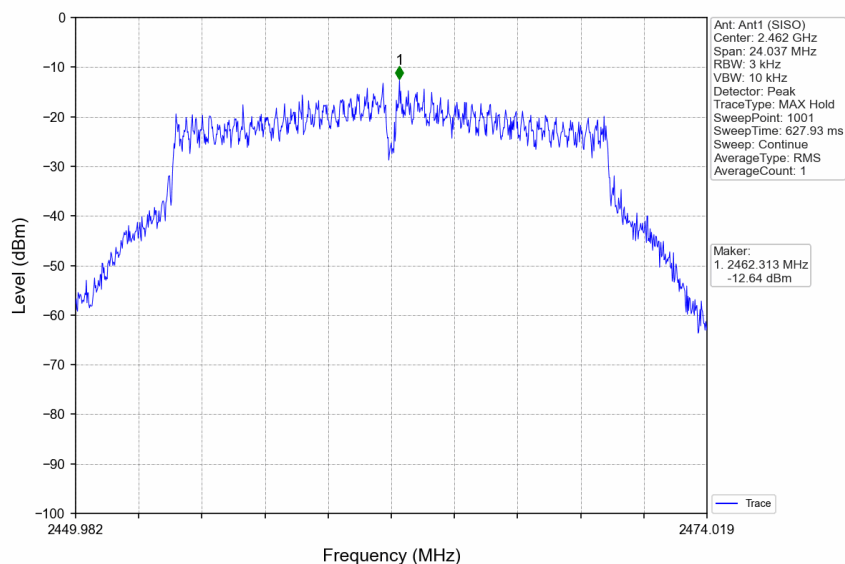
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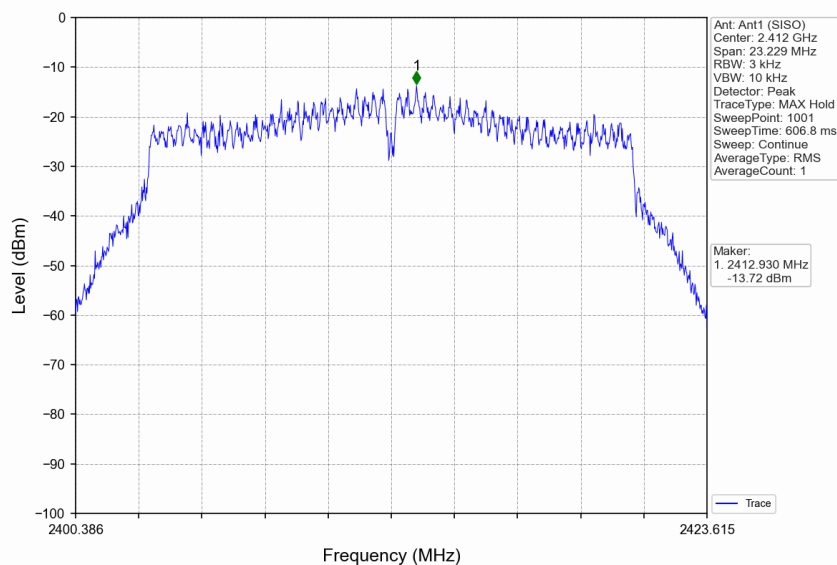
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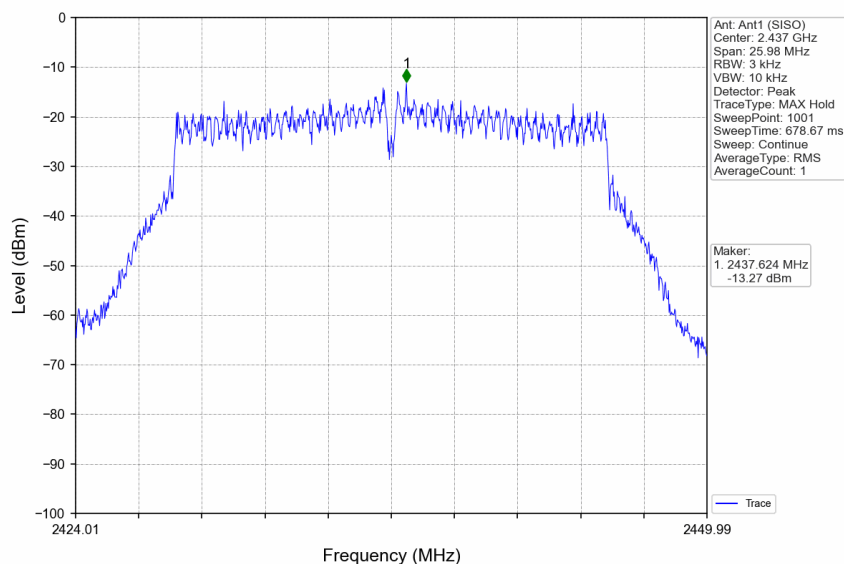
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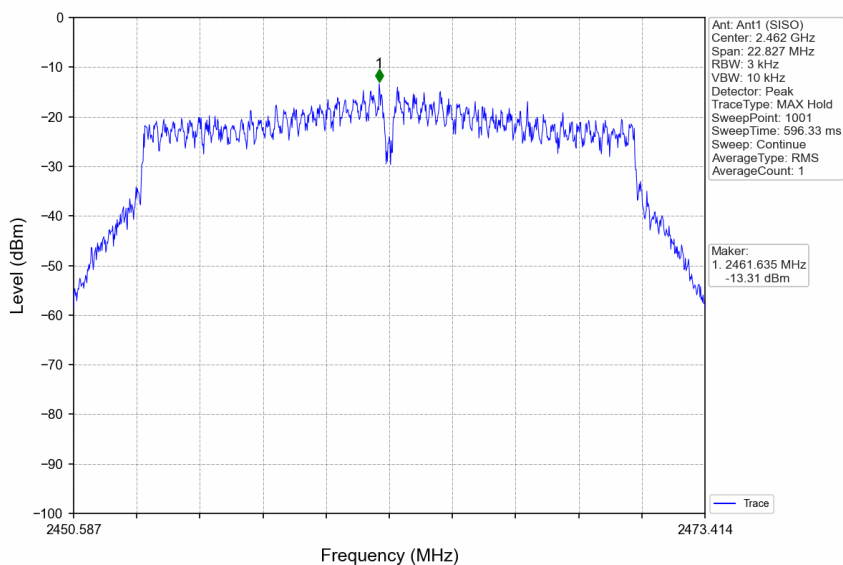
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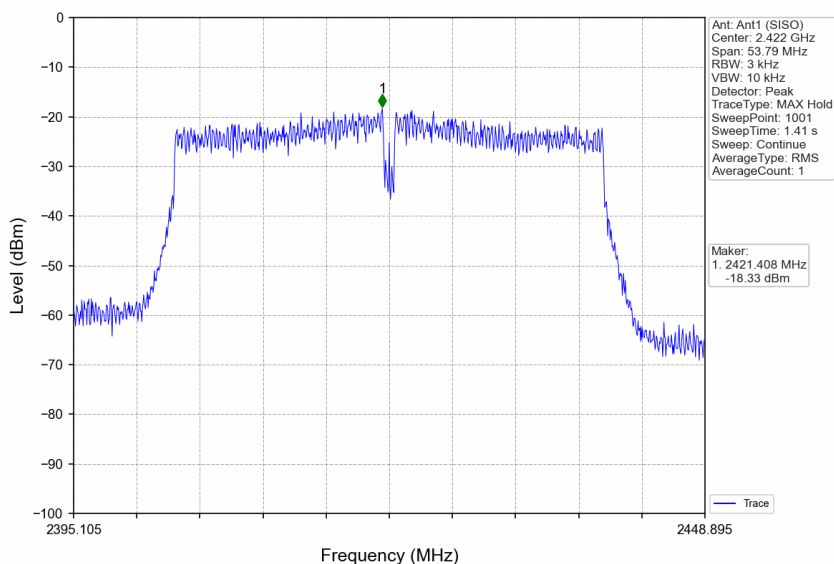
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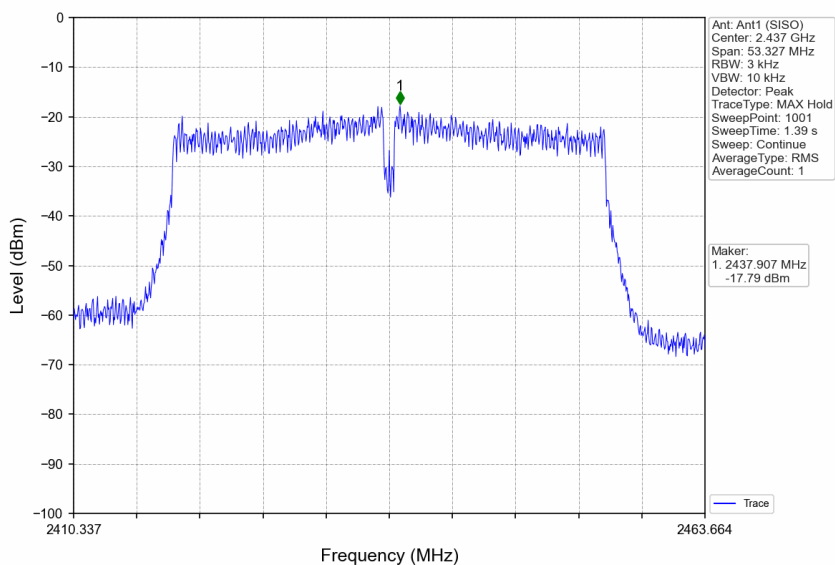
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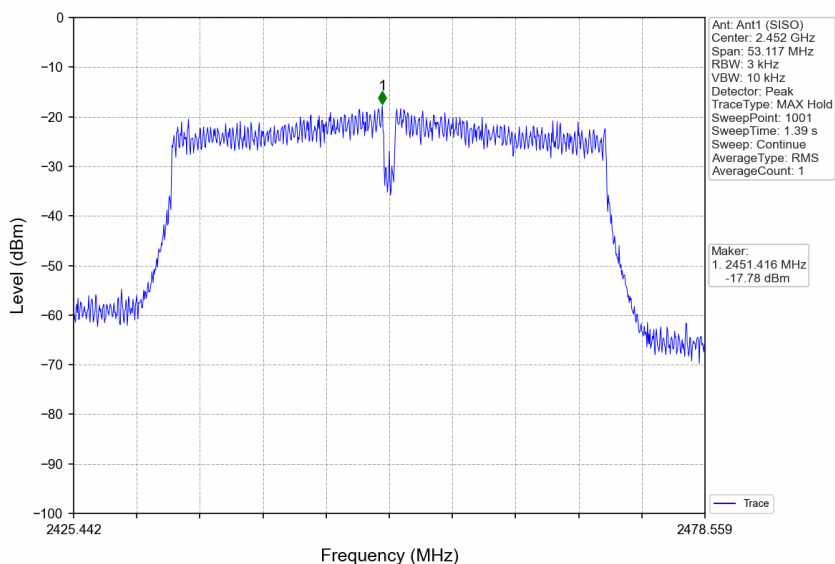
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	1.33
		2437	1	1.72
		2462	1	1.85
802.11g	SISO	2412	1	-1.30
		2437	1	-1.61
		2462	1	-1.23
802.11n (HT20)	SISO	2412	1	-1.54
		2437	1	-1.48
		2462	1	-1.42
802.11n (HT40)	SISO	2422	1	-4.11
		2437	1	-3.88
		2452	1	-3.72

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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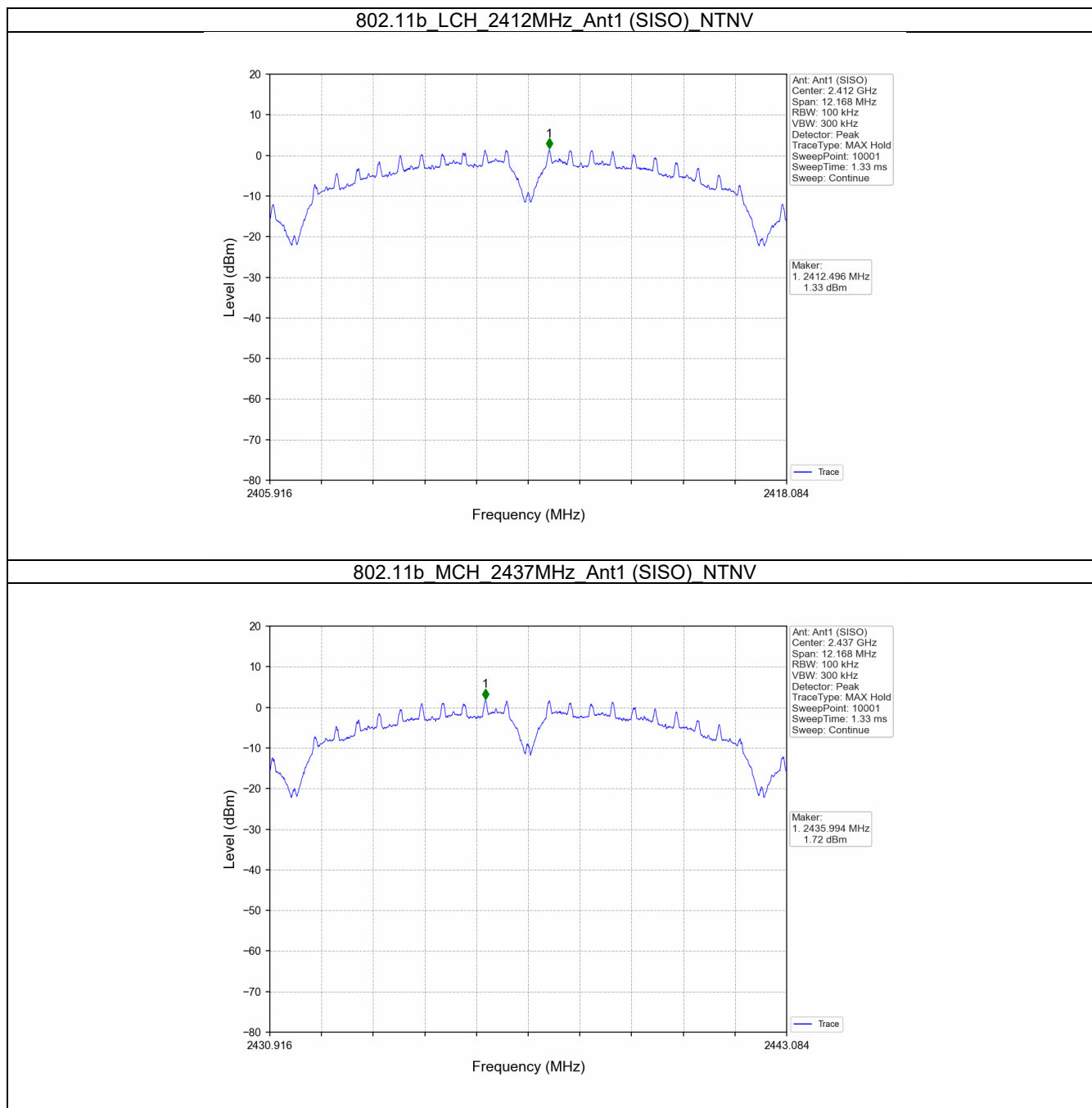
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5.1.2 Test Graph



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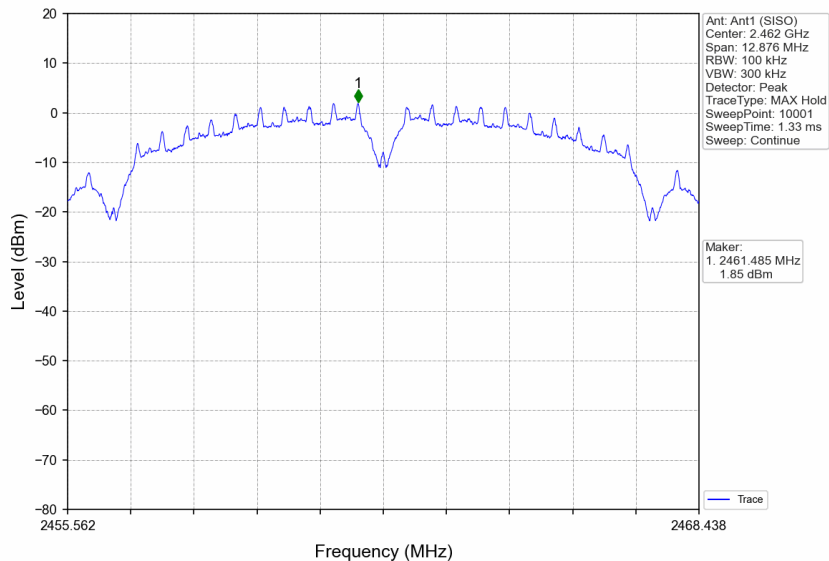
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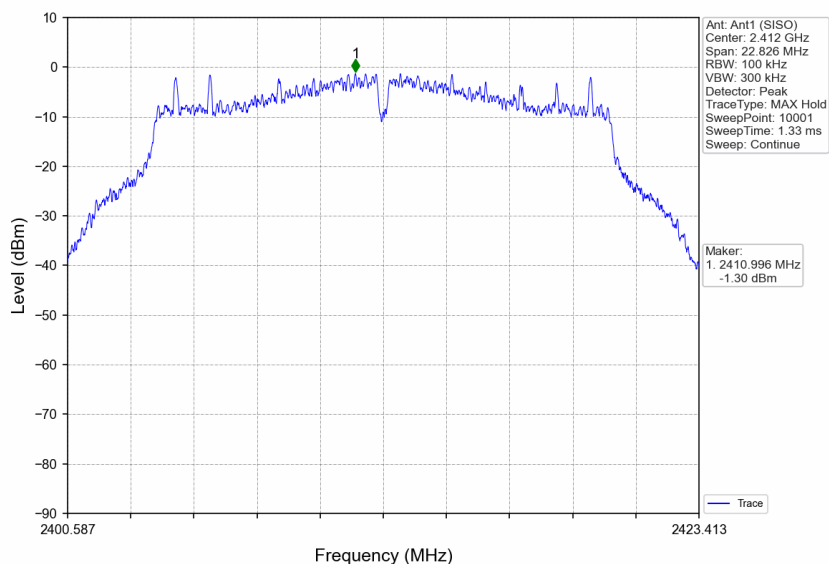
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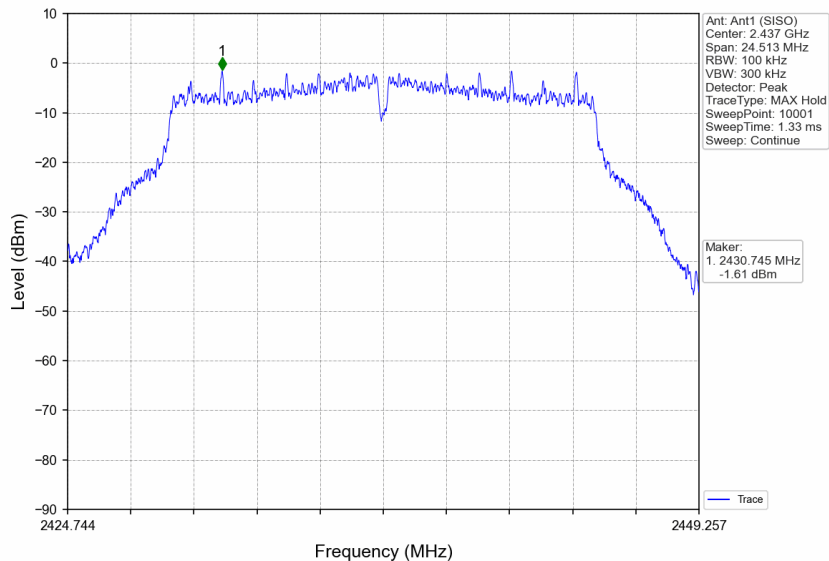
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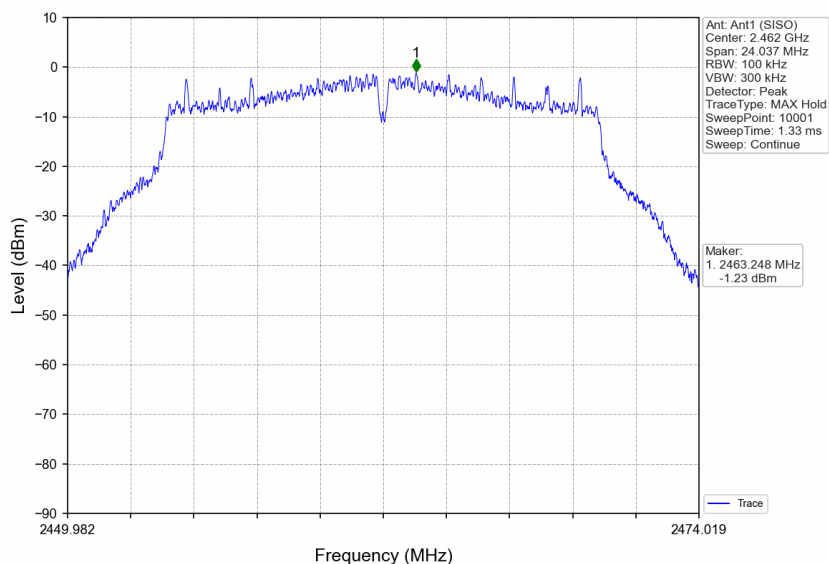
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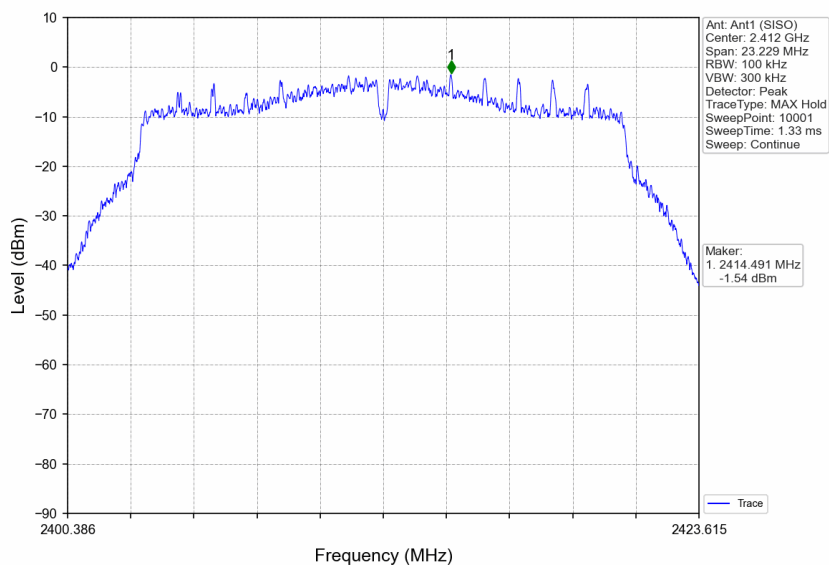
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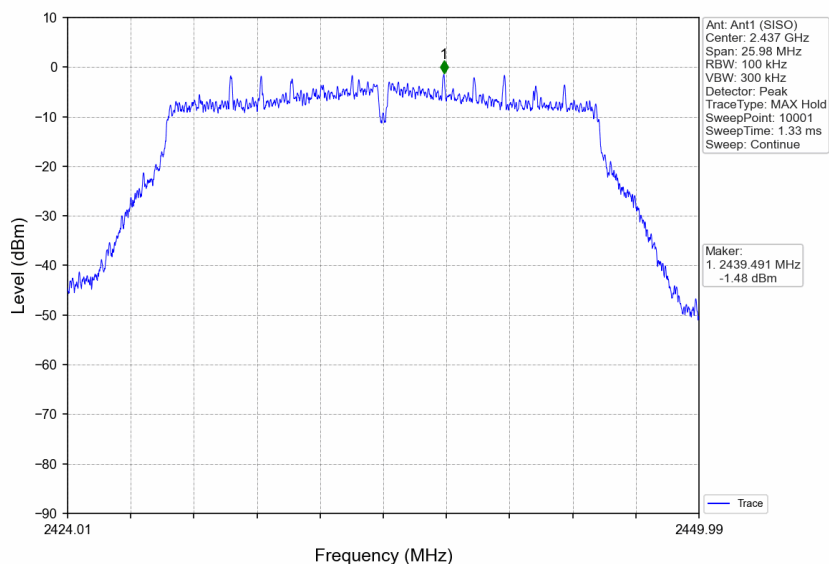
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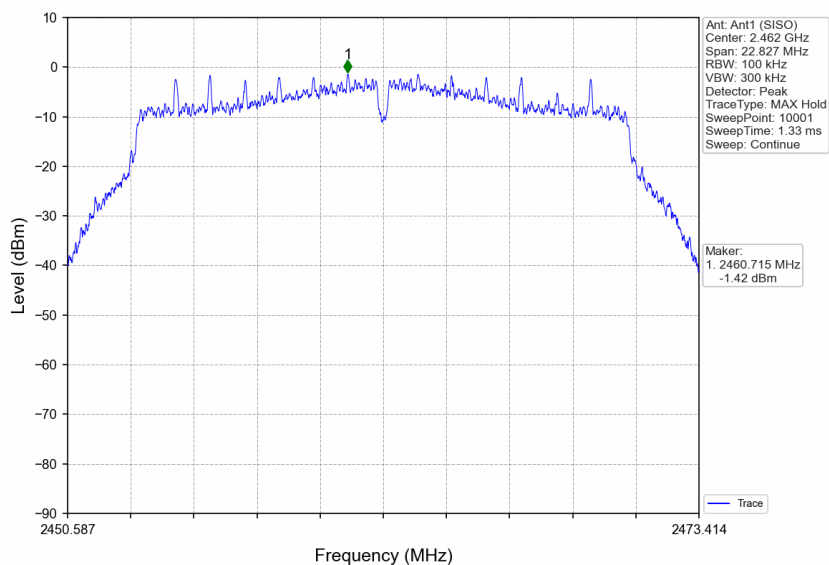
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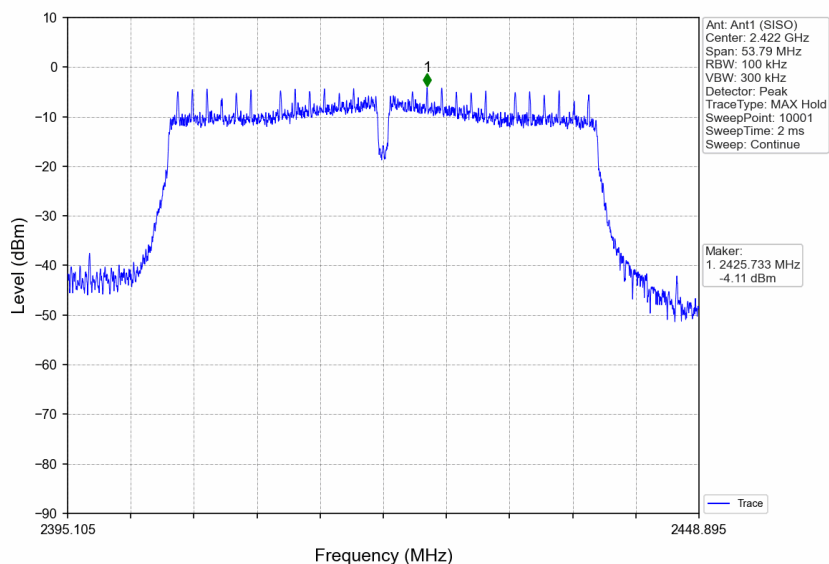
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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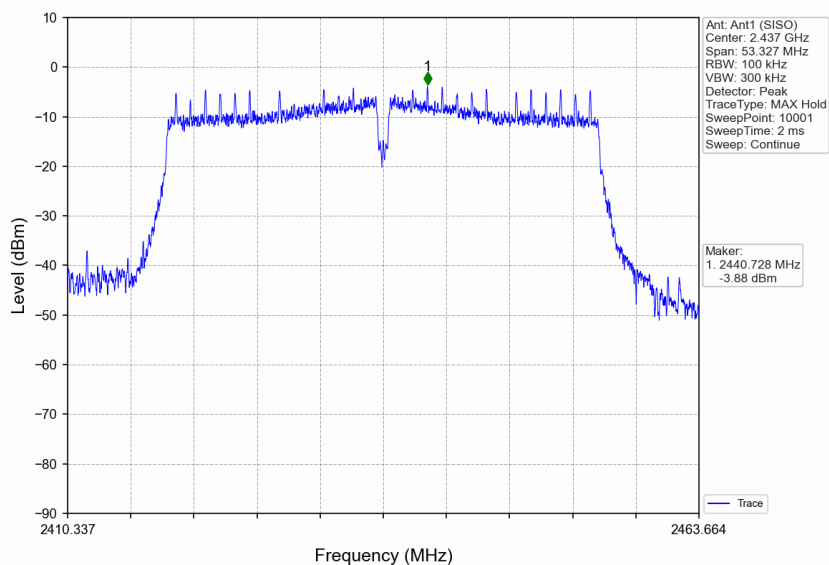
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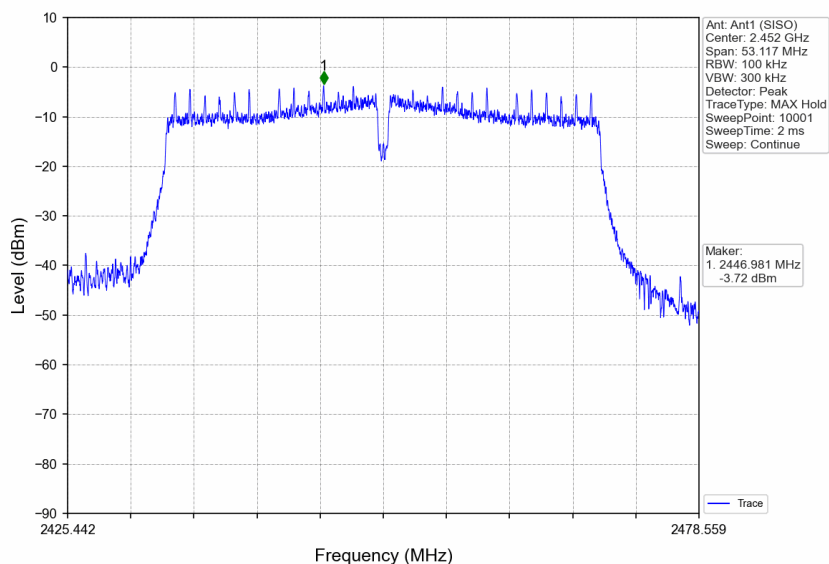


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802.11n(HT40)_HCH_2452MHz_Ant1(SISO)_NTNV



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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	1.85	-28.15	Pass
		2437	1	1.85	-28.15	Pass
		2462	1	1.85	-28.15	Pass
802.11g	SISO	2412	1	-1.23	-31.23	Pass
		2437	1	-1.23	-31.23	Pass
		2462	1	-1.23	-31.23	Pass
802.11n (HT20)	SISO	2412	1	-1.42	-31.42	Pass
		2437	1	-1.42	-31.42	Pass
		2462	1	-1.42	-31.42	Pass
802.11n (HT40)	SISO	2422	1	-3.72	-33.72	Pass
		2437	1	-3.72	-33.72	Pass
		2452	1	-3.72	-33.72	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.



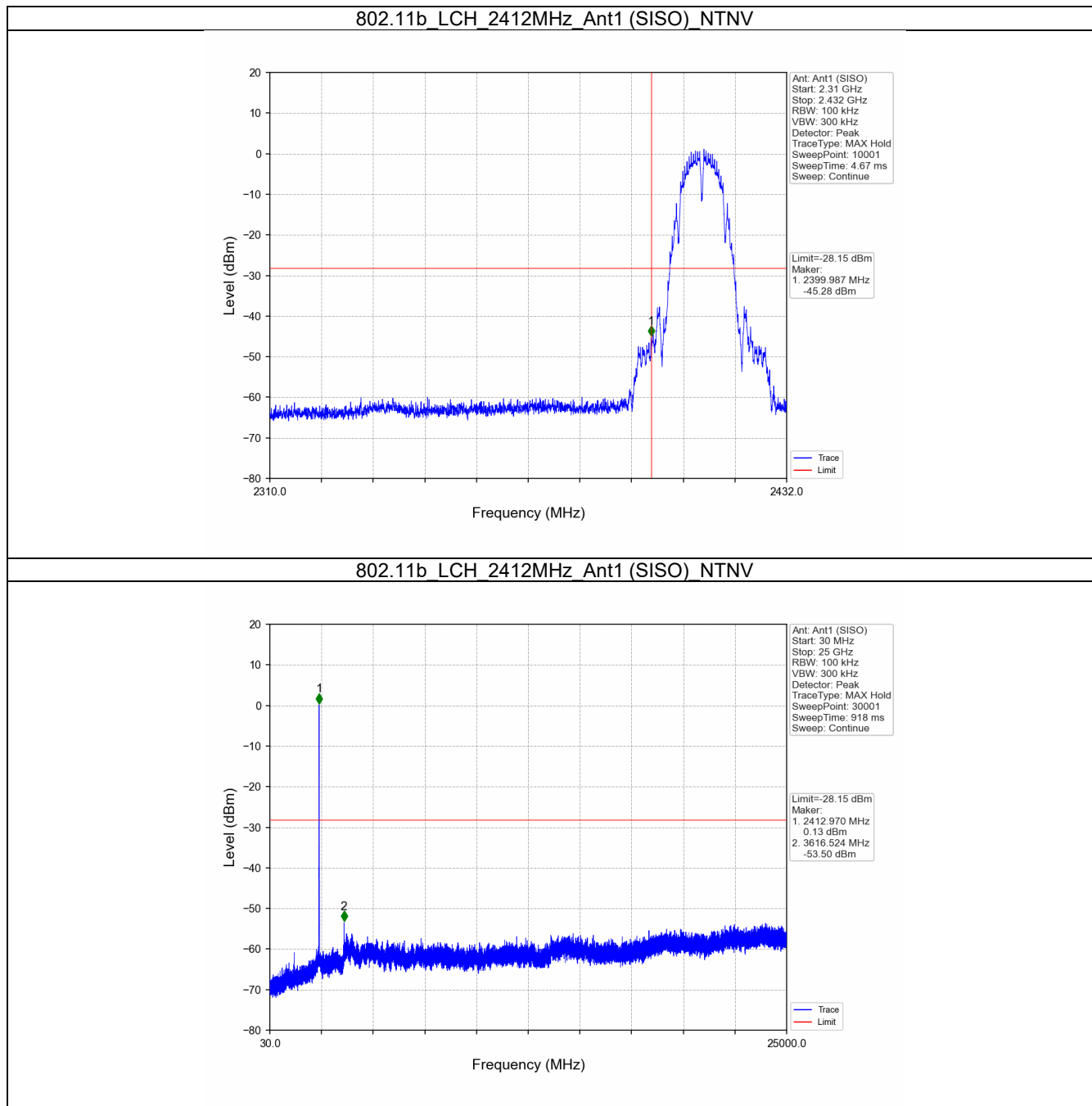
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5.2.2 Test Graph



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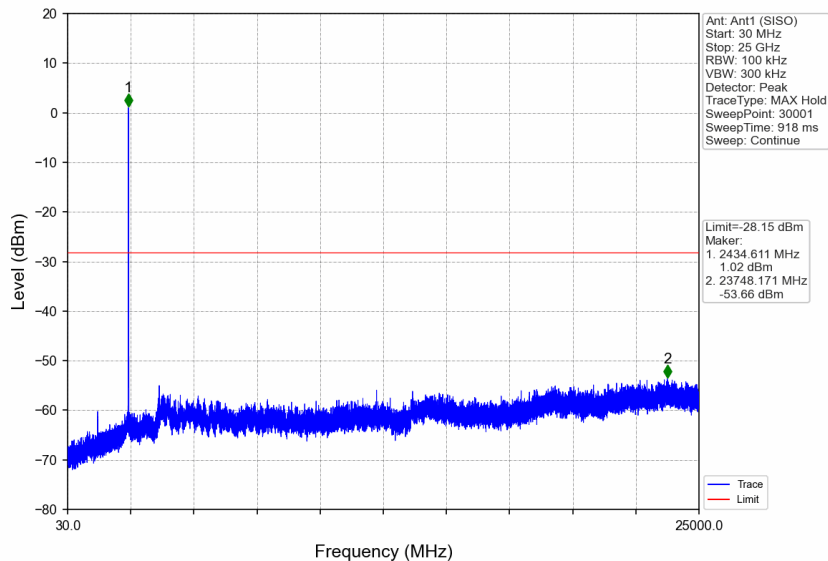
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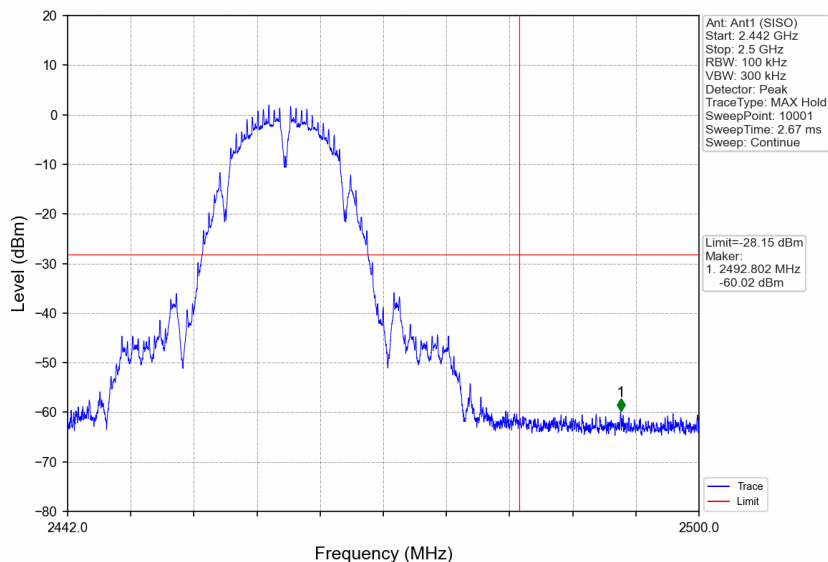


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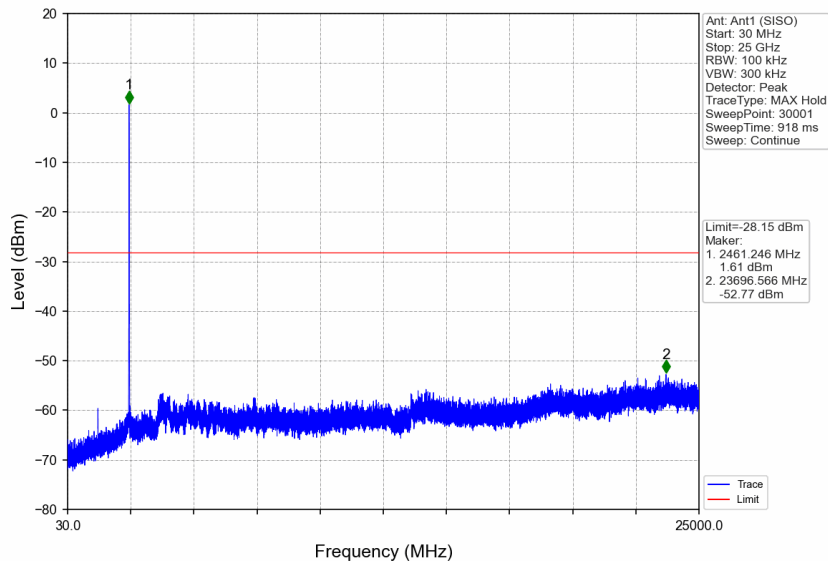
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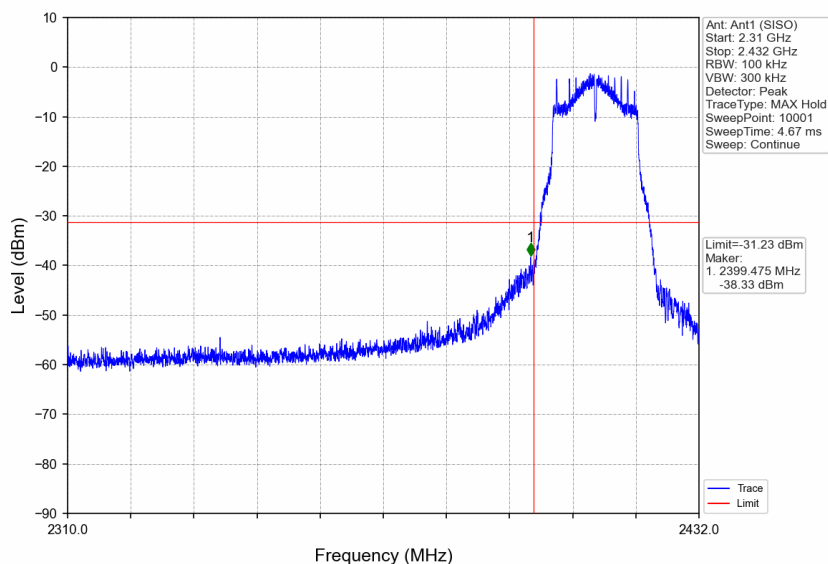
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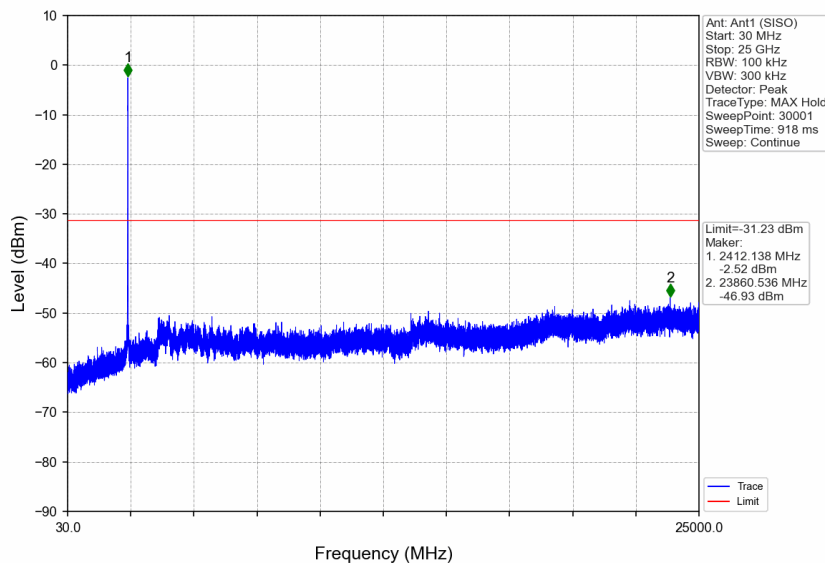
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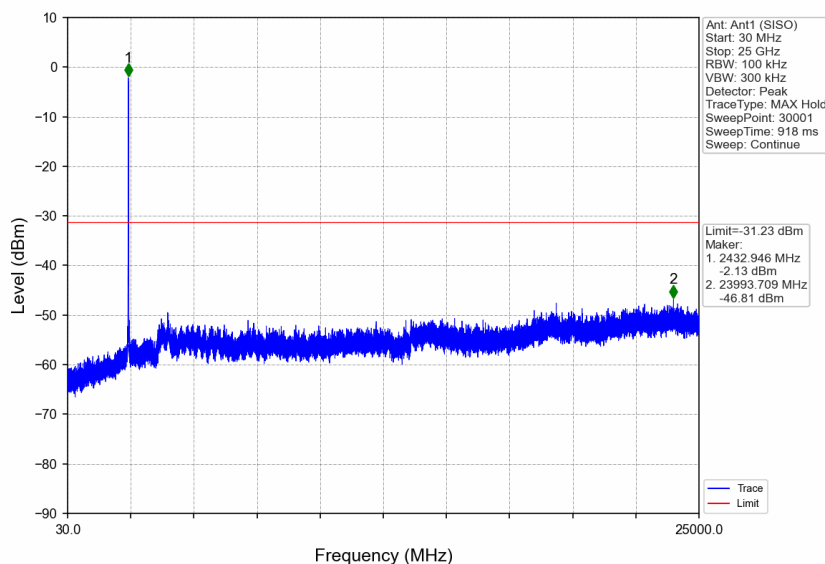
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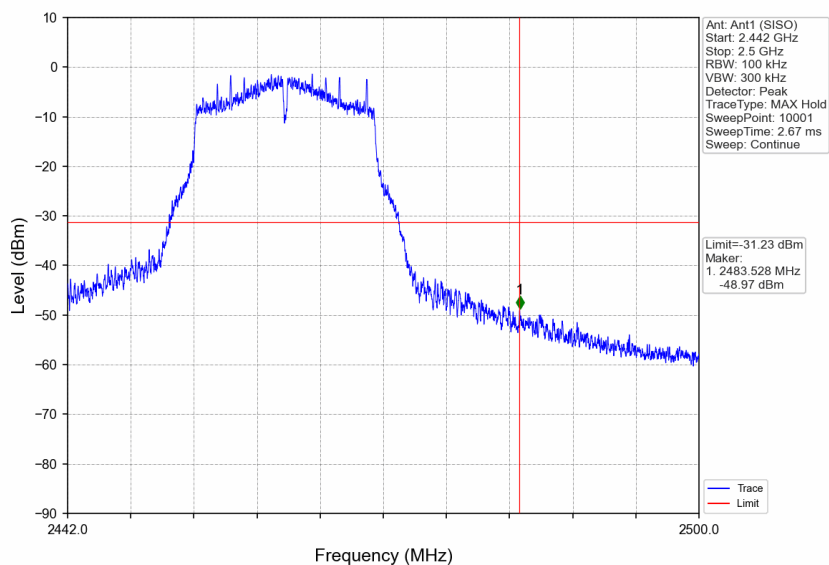
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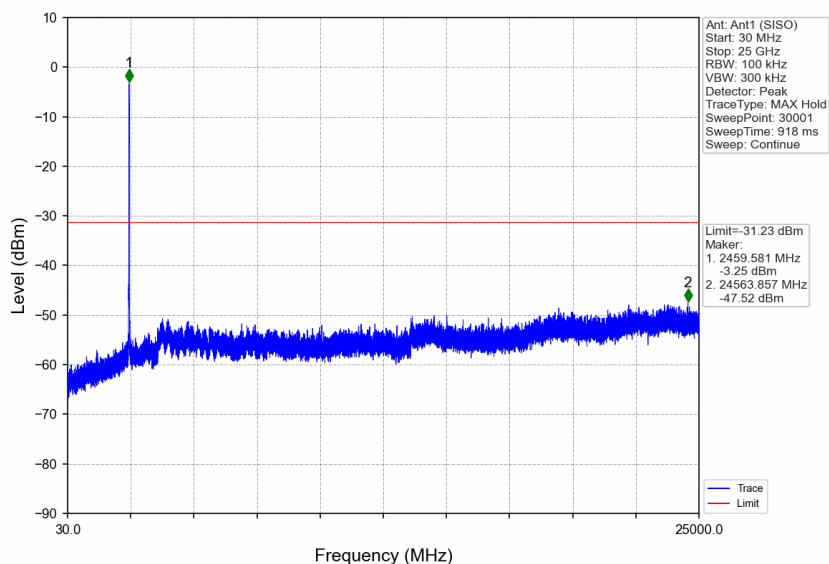
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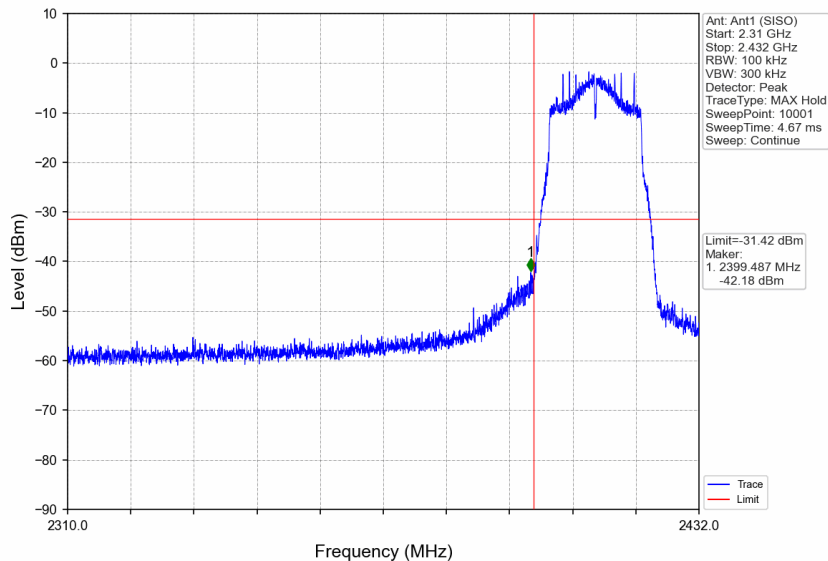
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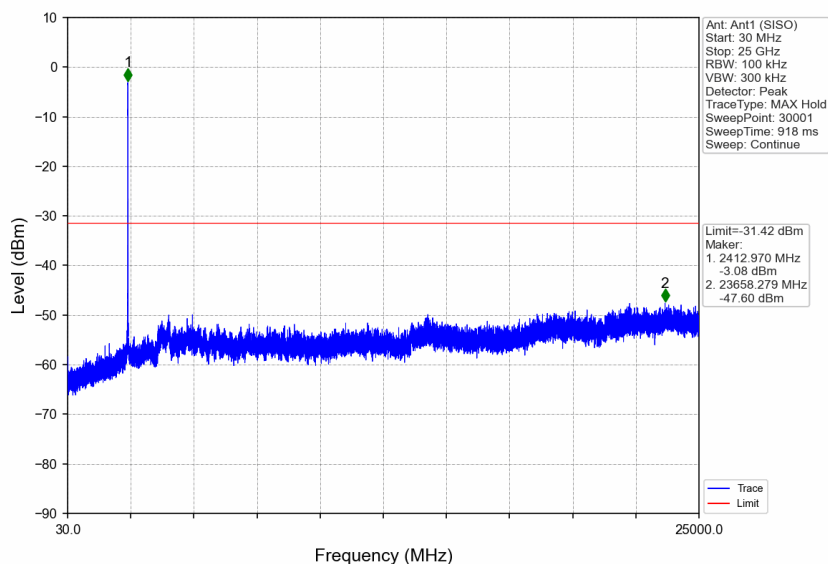
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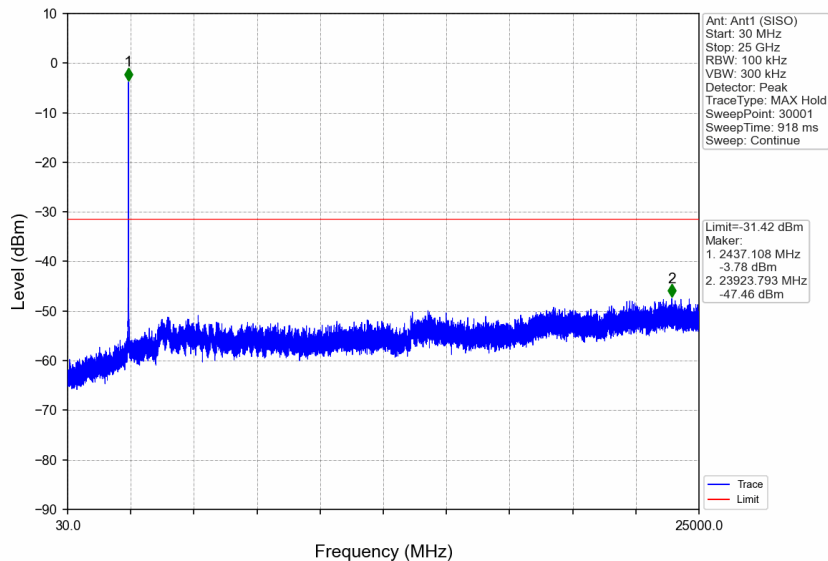
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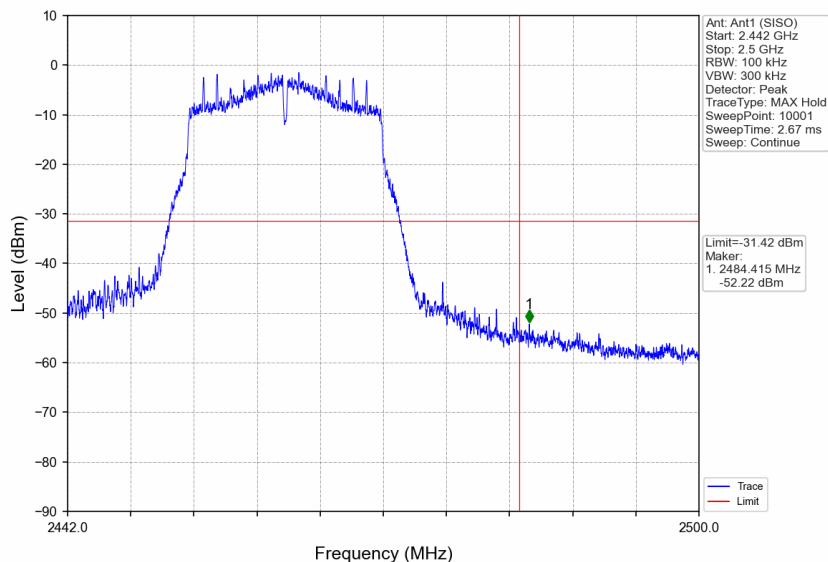
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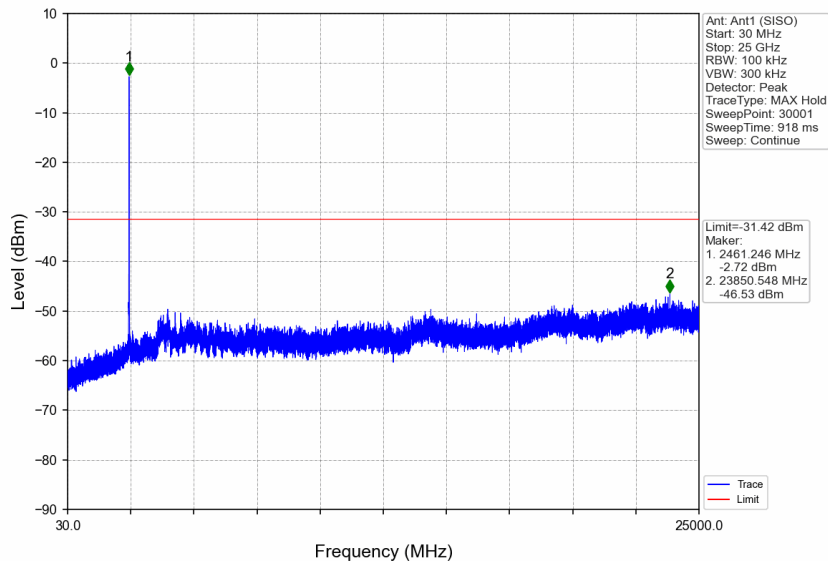
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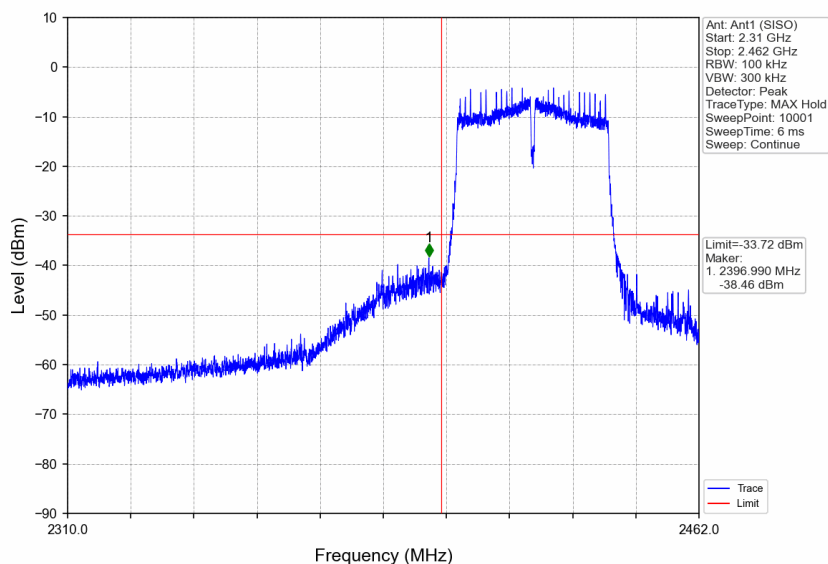
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802.11n(HT20)_HCH_2462MHz_Ant1(SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1(SISO)_NTNV



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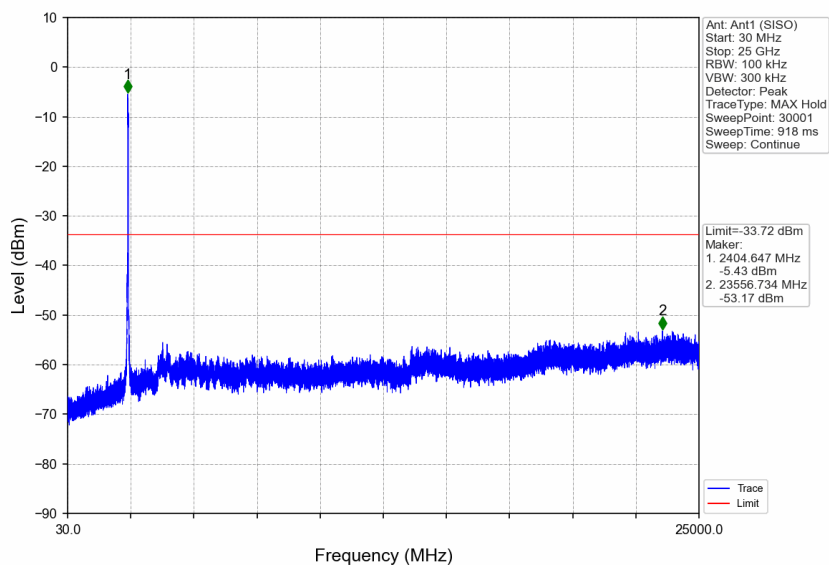
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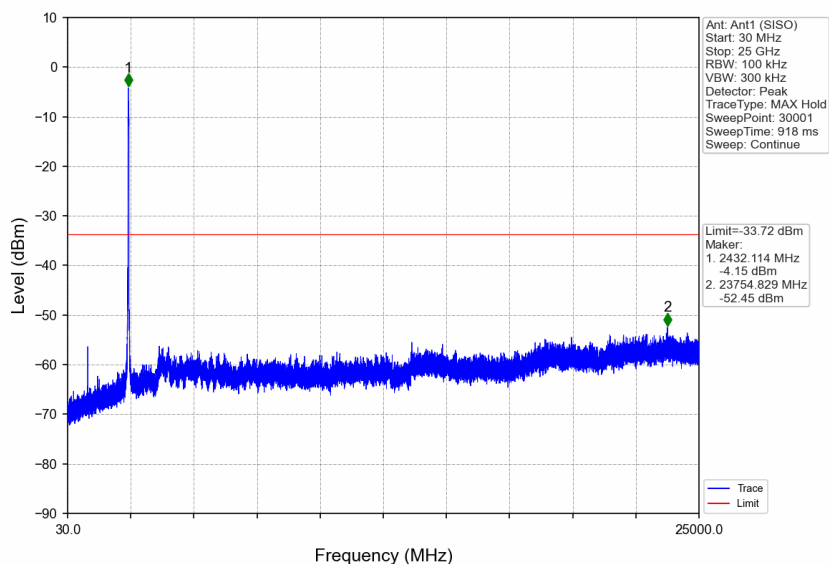
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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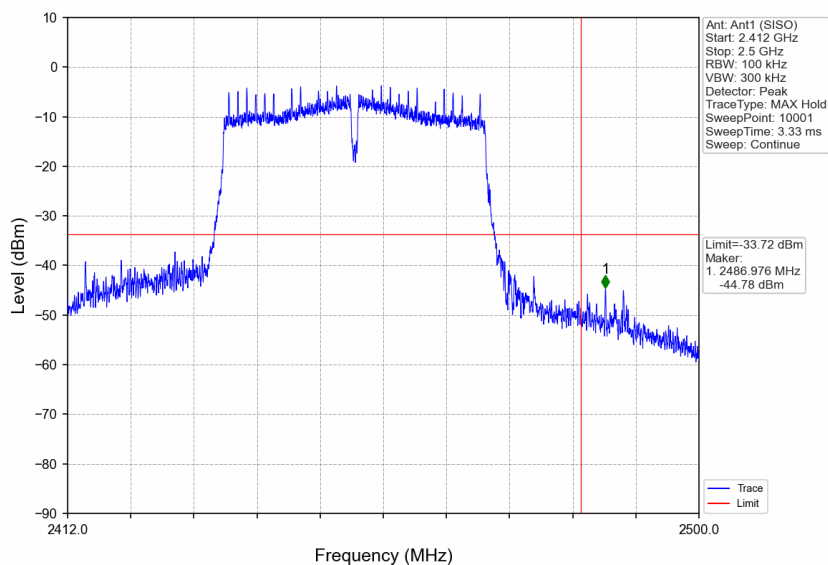
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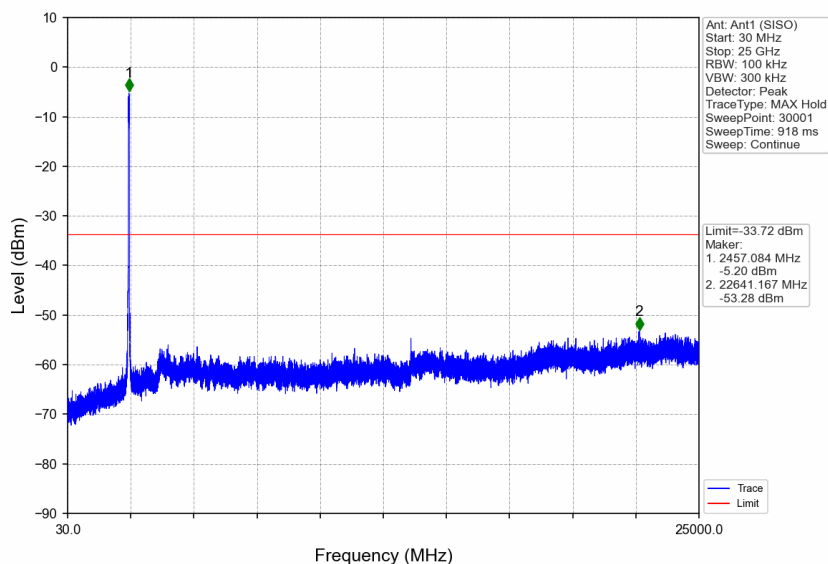
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