

Appendix A for SHEM210700818001

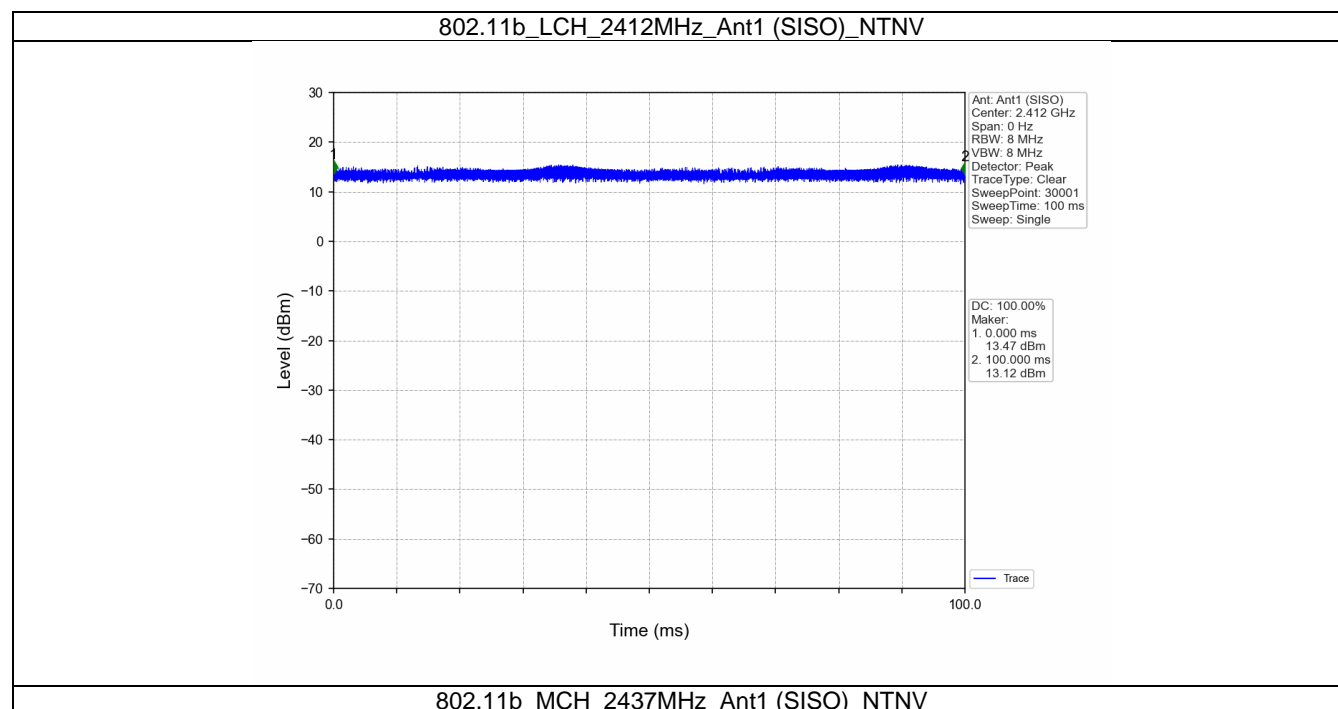
1. Duty Cycle

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

1.1.2 Test Graph



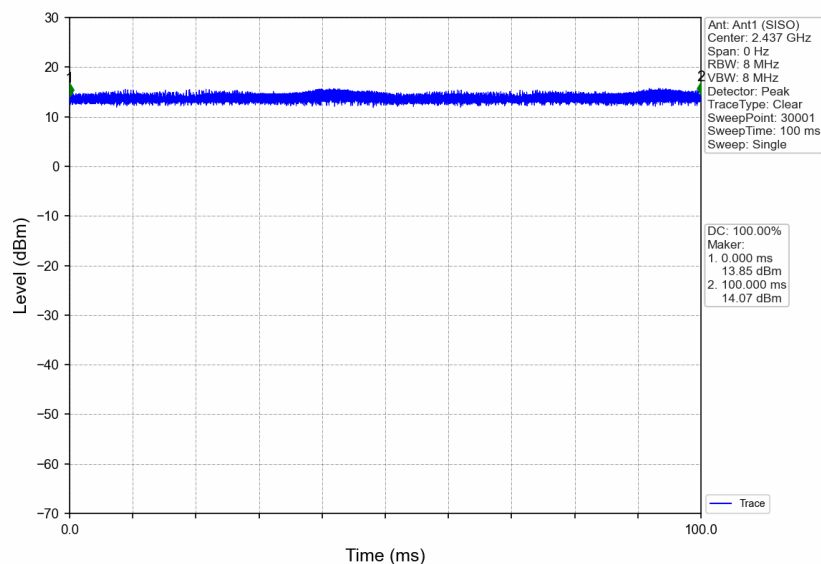
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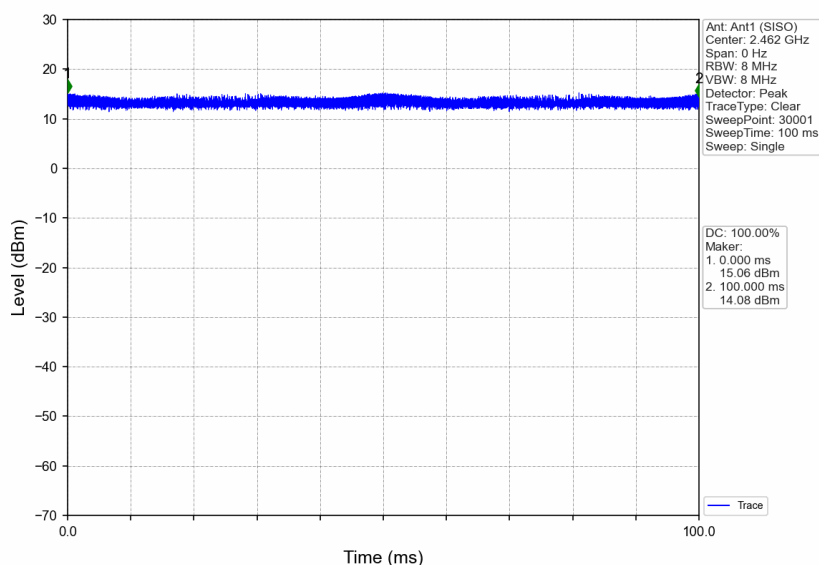
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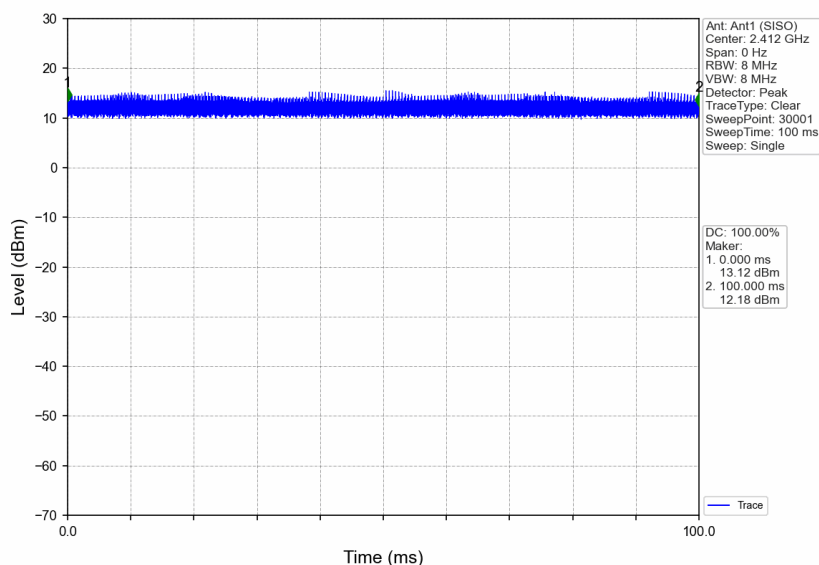
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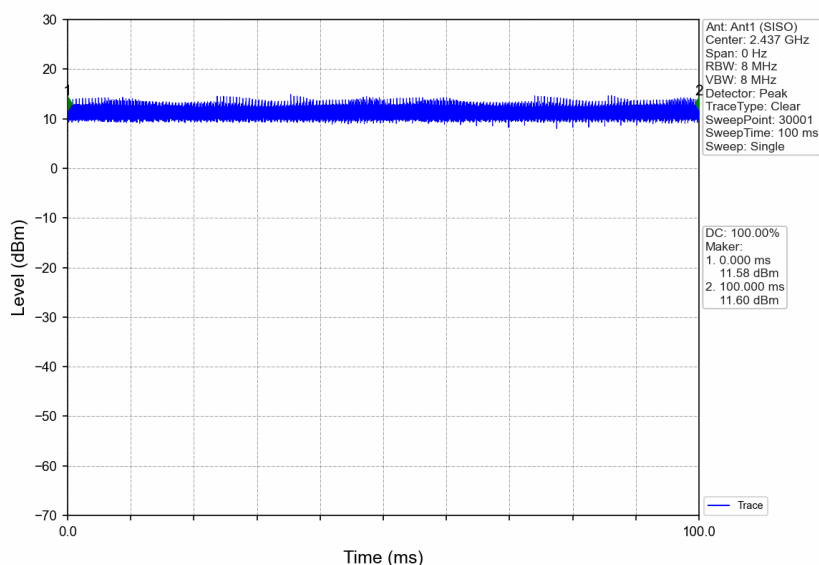
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



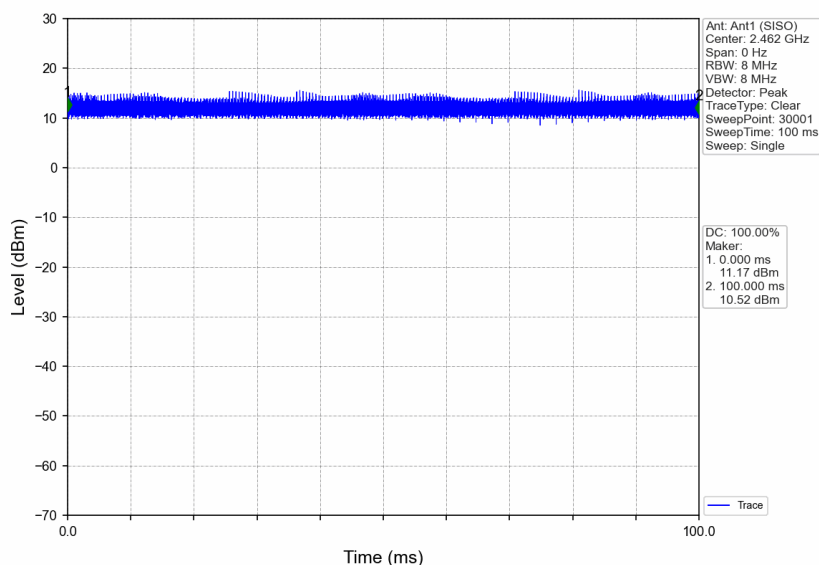
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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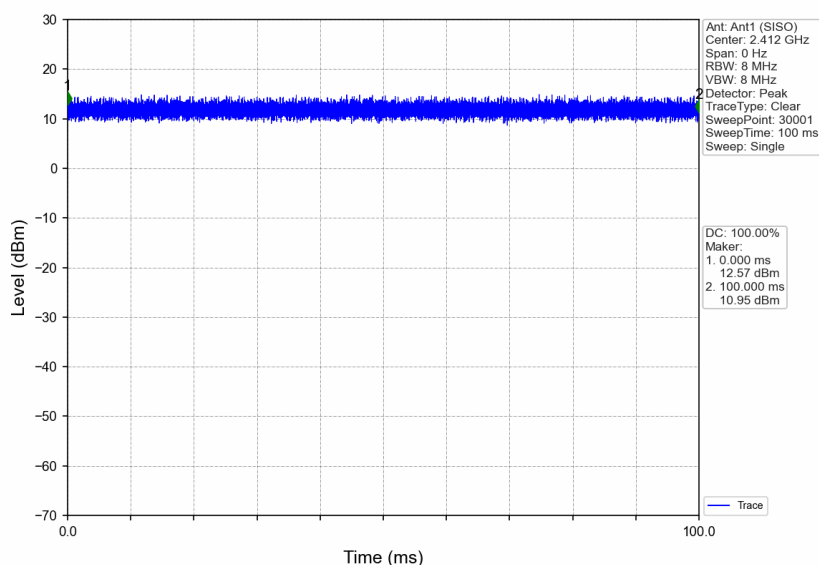
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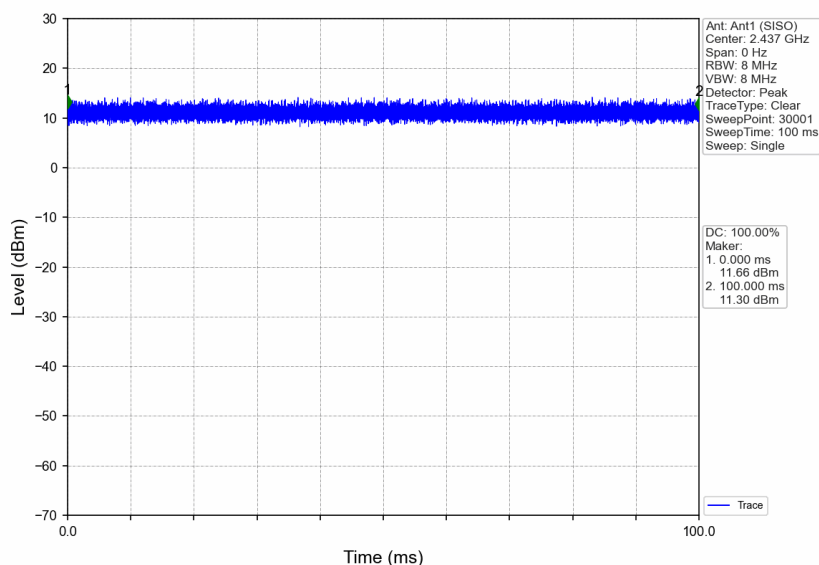
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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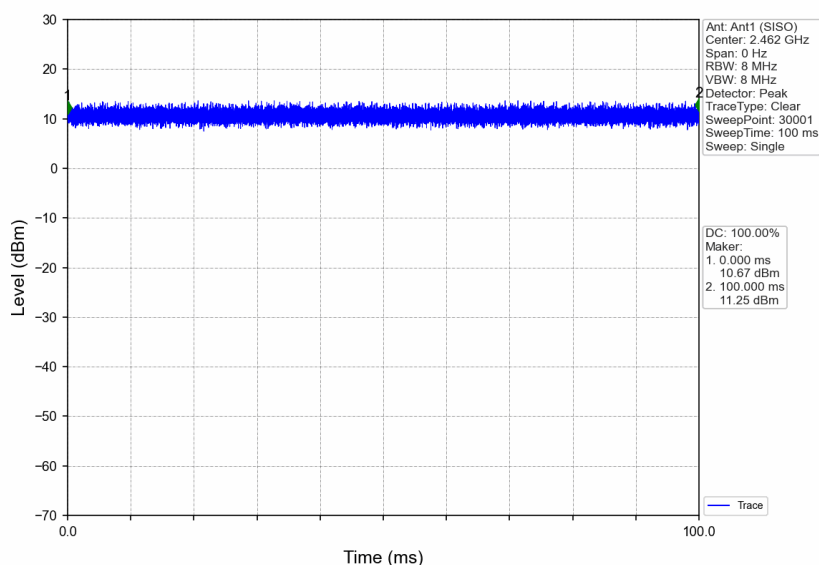
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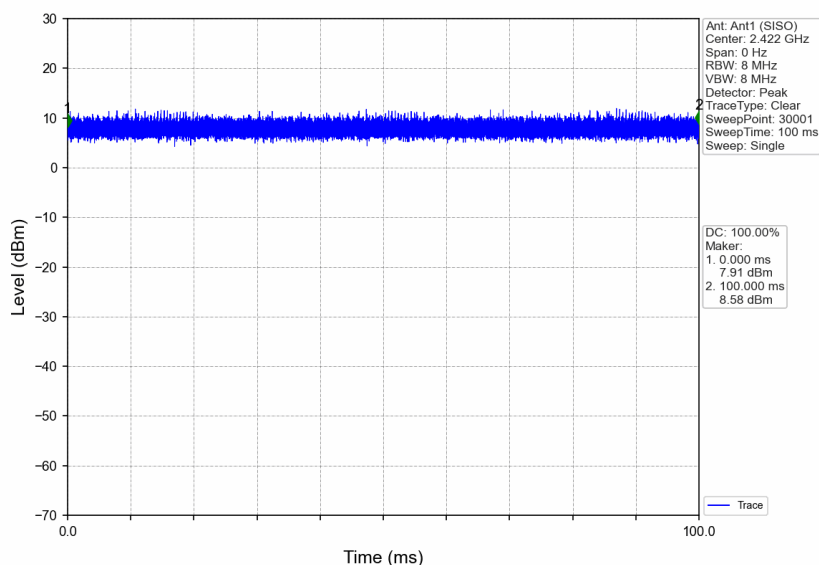
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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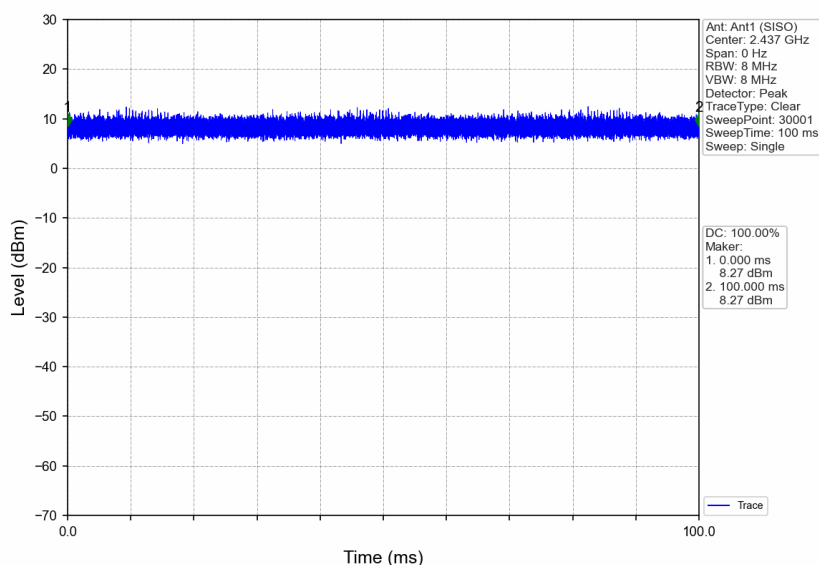
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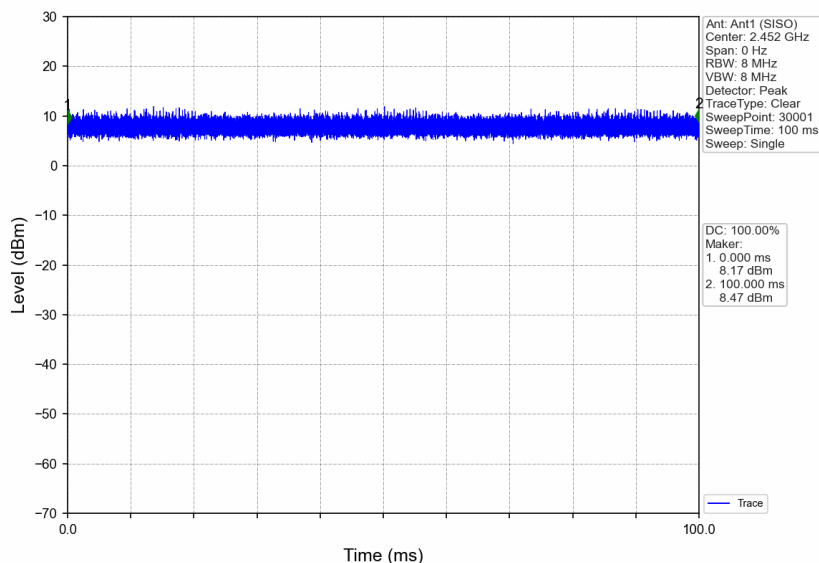
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

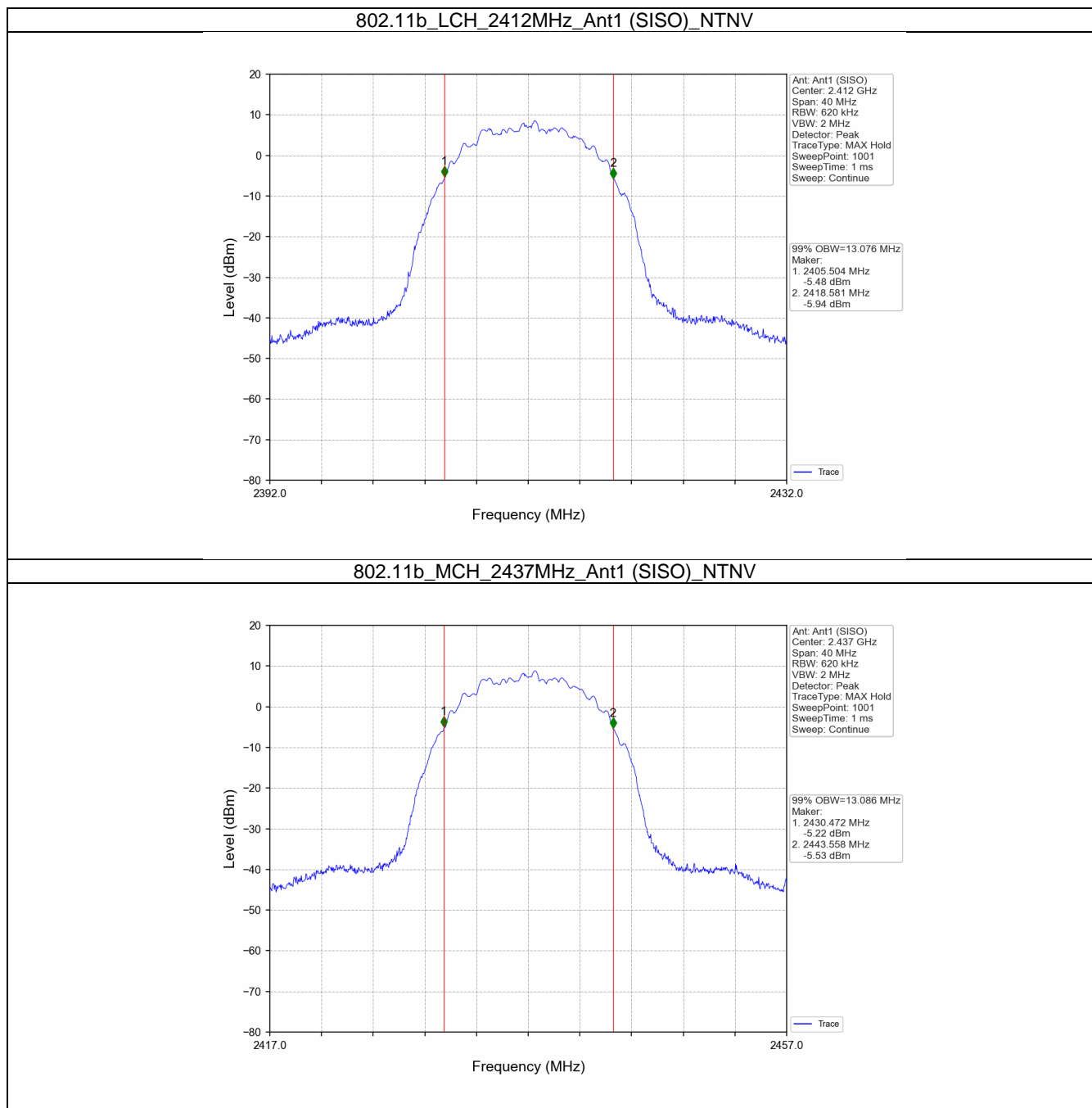
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.076	Pass
		2437	1	13.086	Pass
		2462	1	13.079	Pass
802.11g	SISO	2412	1	17.346	Pass
		2437	1	17.332	Pass
		2462	1	17.336	Pass
802.11n (HT20)	SISO	2412	1	17.972	Pass
		2437	1	17.975	Pass
		2462	1	17.980	Pass
802.11n (HT40)	SISO	2422	1	37.391	Pass
		2437	1	37.444	Pass
		2452	1	37.429	Pass



2.1.2 Test Graph



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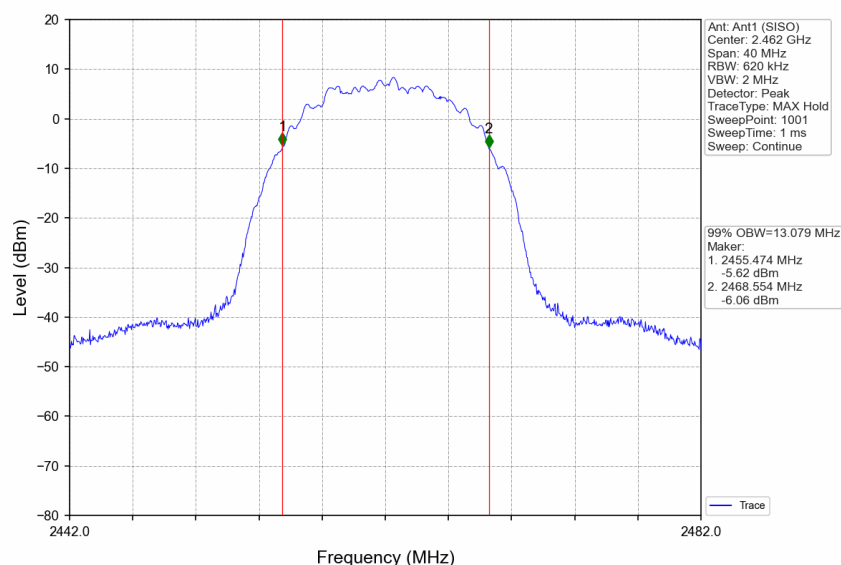
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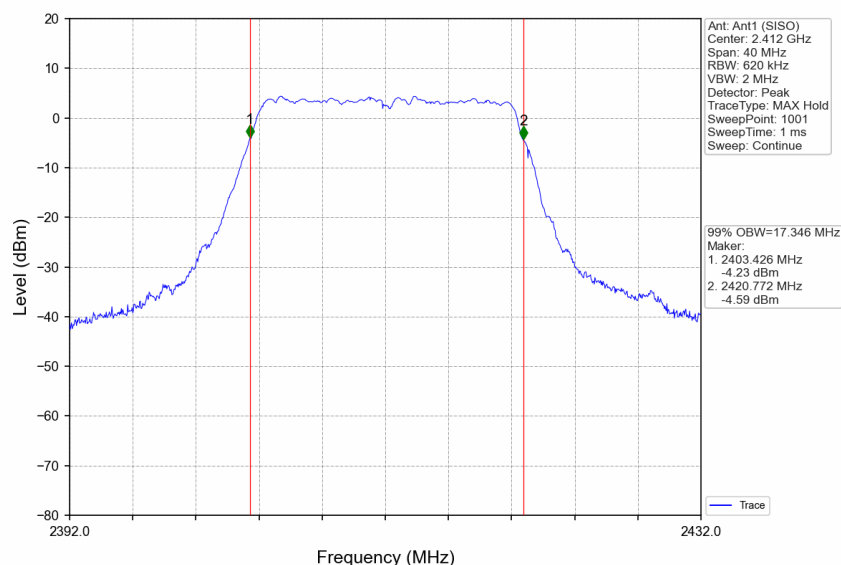
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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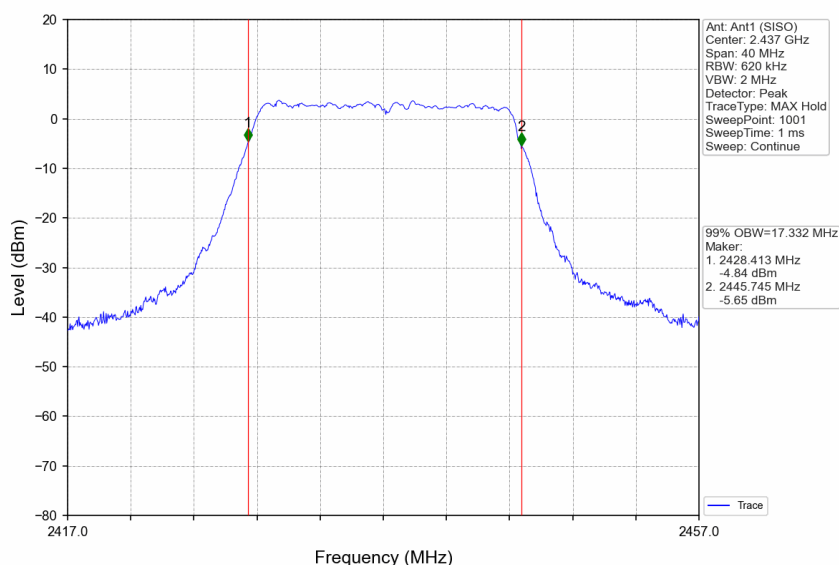
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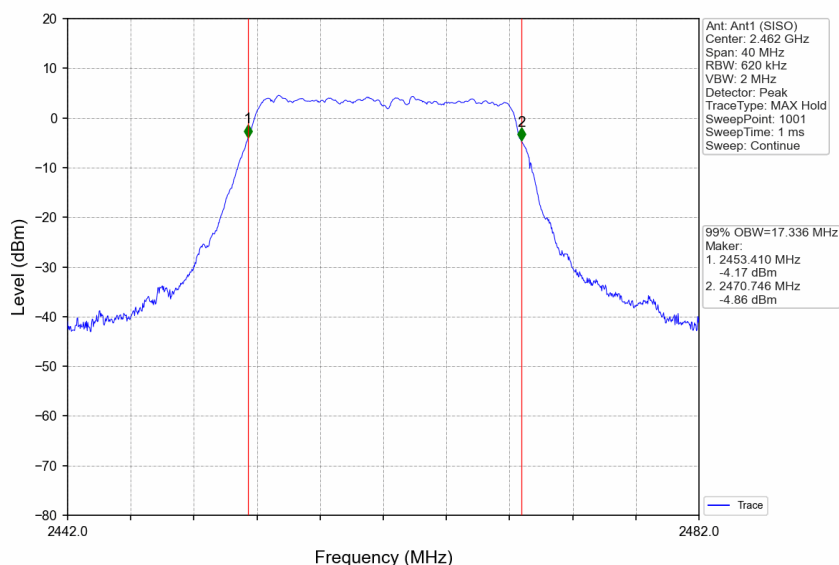
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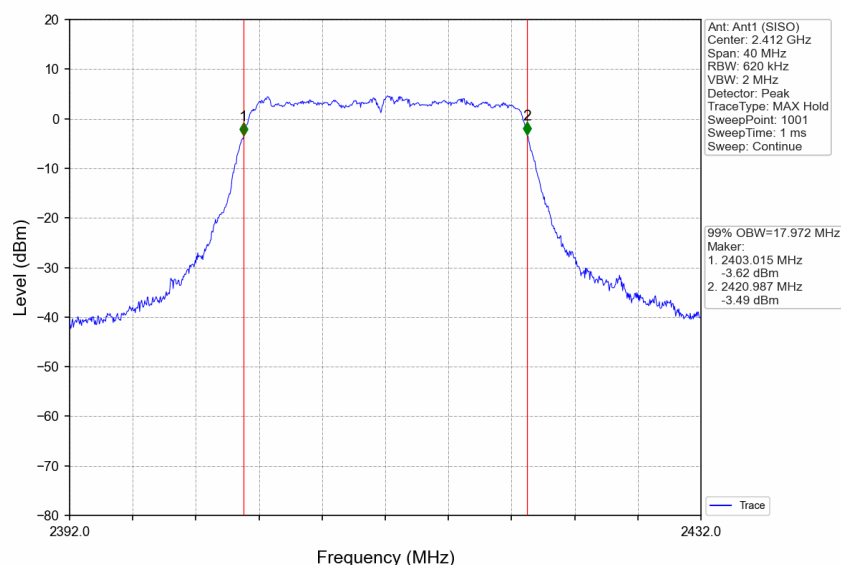
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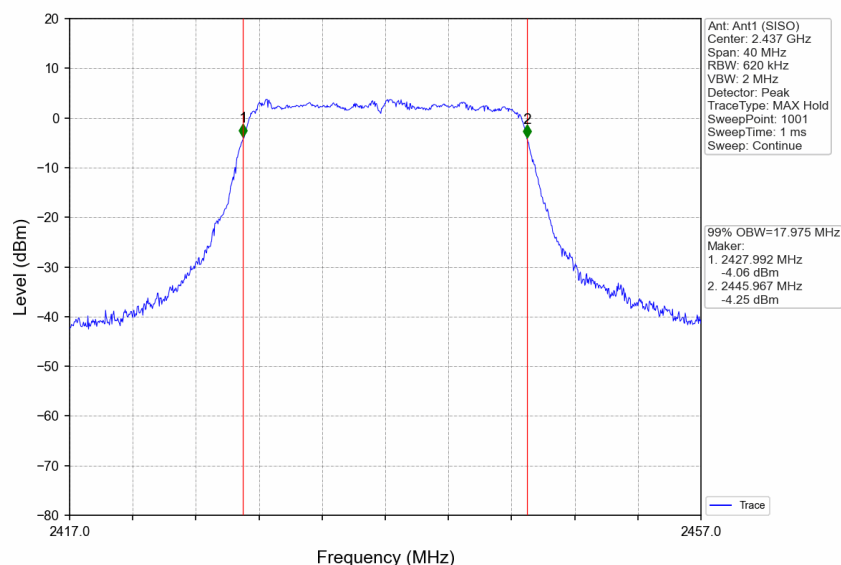
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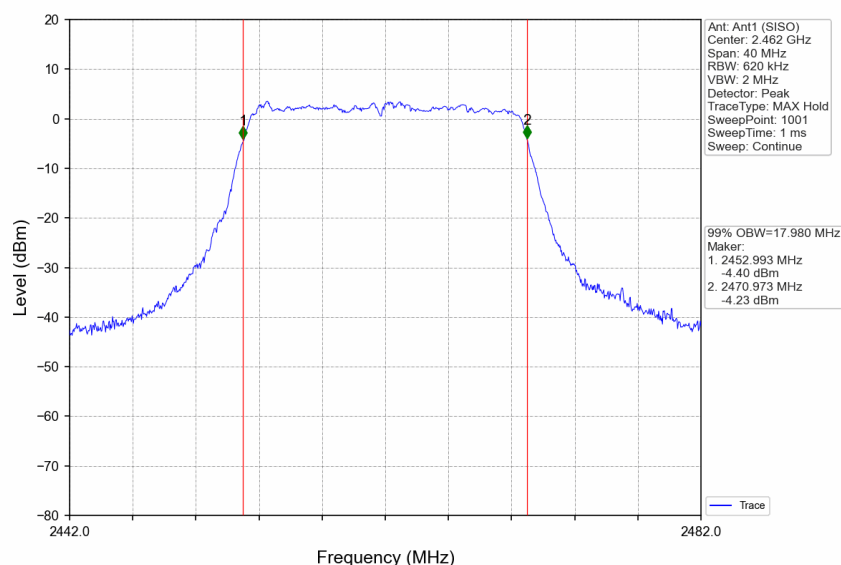
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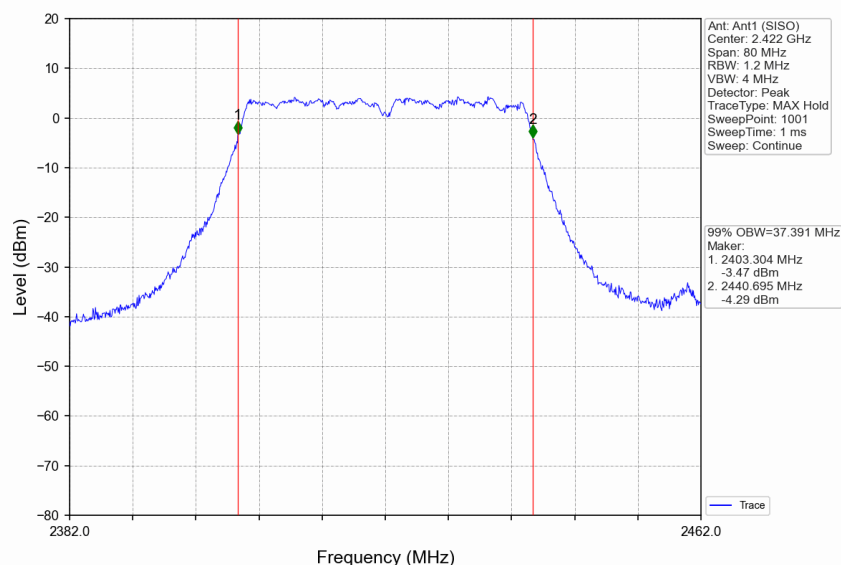
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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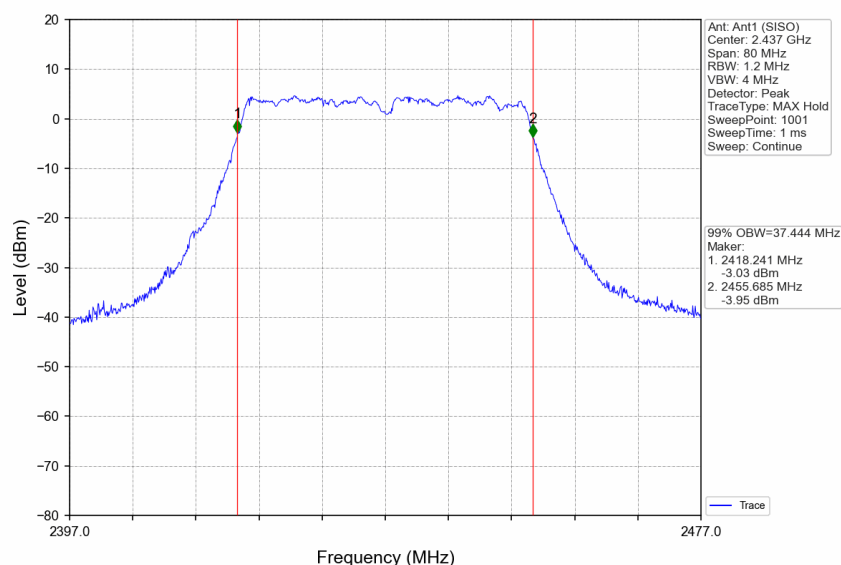
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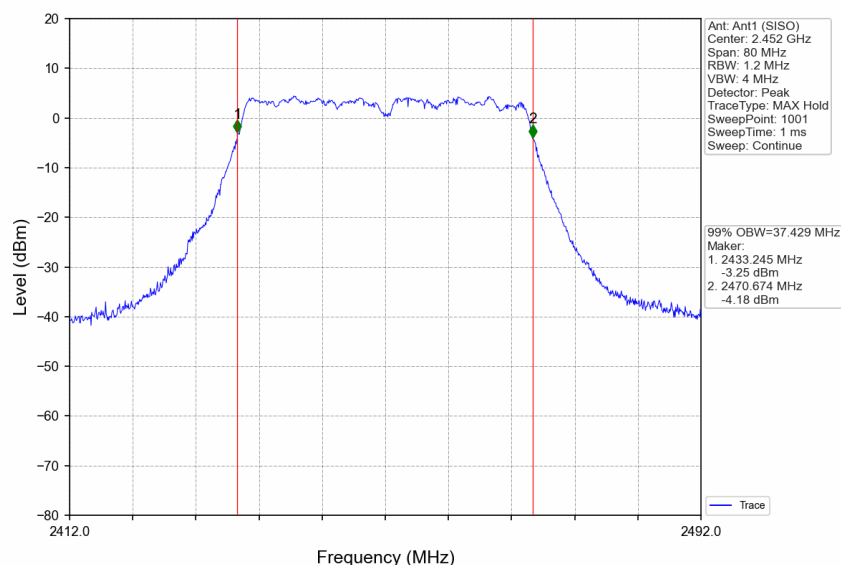
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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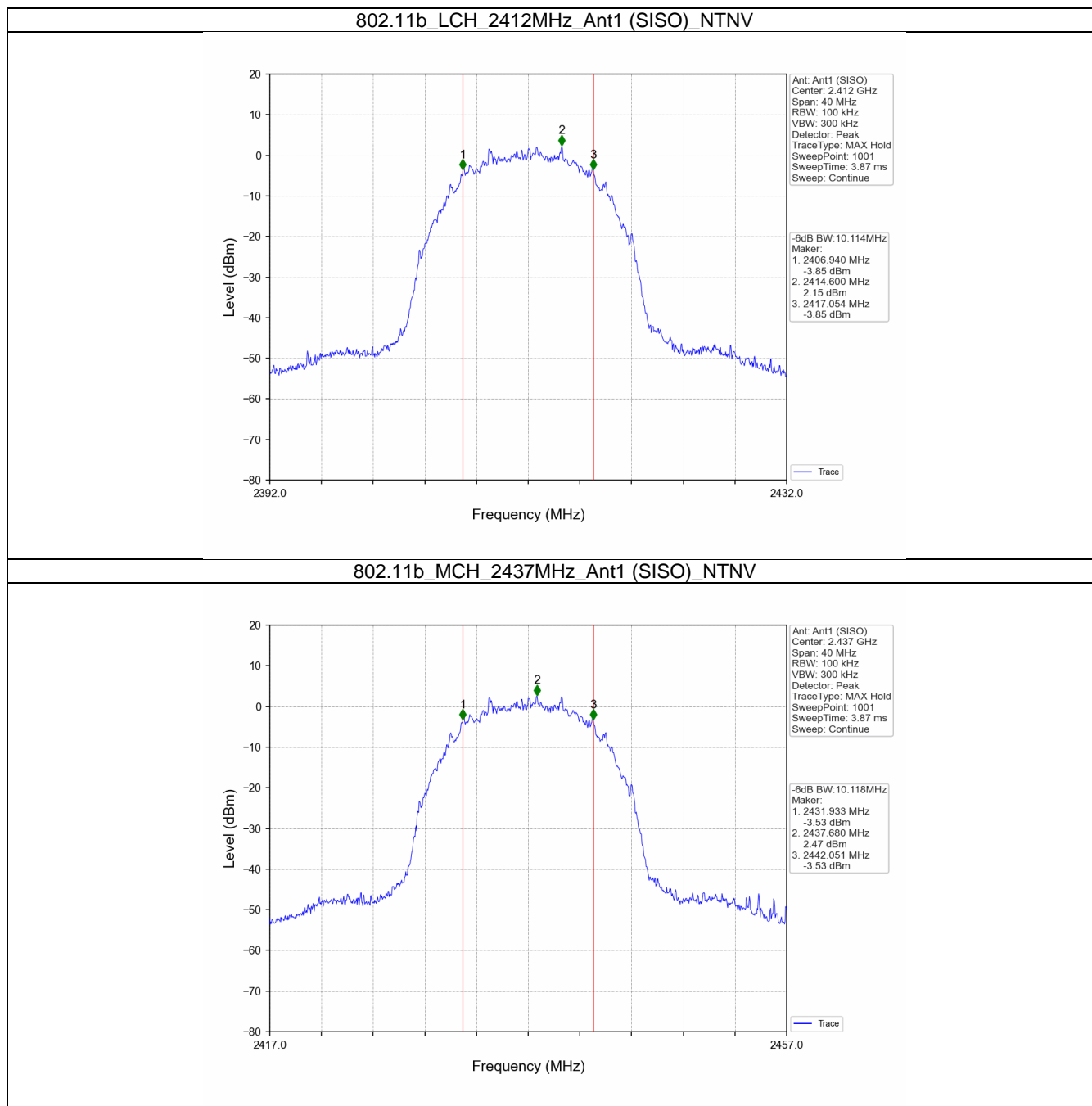
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.114	≥ 0.5	Pass
		2437	1	10.118	≥ 0.5	Pass
		2462	1	10.117	≥ 0.5	Pass
802.11g	SISO	2412	1	16.539	≥ 0.5	Pass
		2437	1	16.544	≥ 0.5	Pass
		2462	1	16.547	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.674	≥ 0.5	Pass
		2437	1	17.735	≥ 0.5	Pass
		2462	1	17.769	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.561	≥ 0.5	Pass
		2437	1	36.500	≥ 0.5	Pass
		2452	1	36.502	≥ 0.5	Pass



2.2.2 Test Graph



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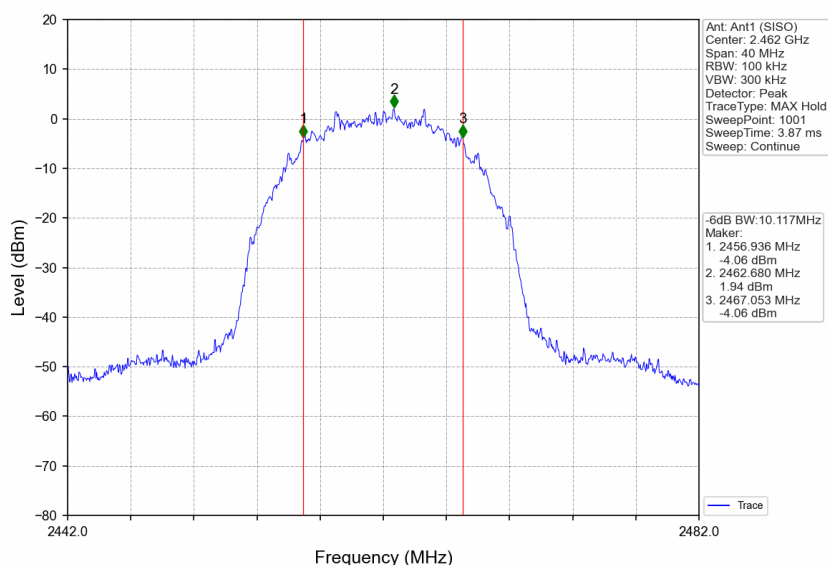
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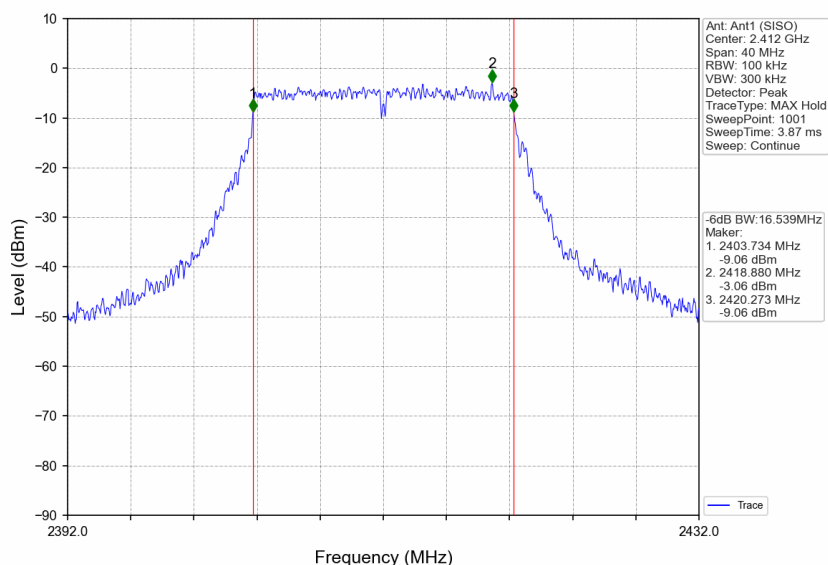
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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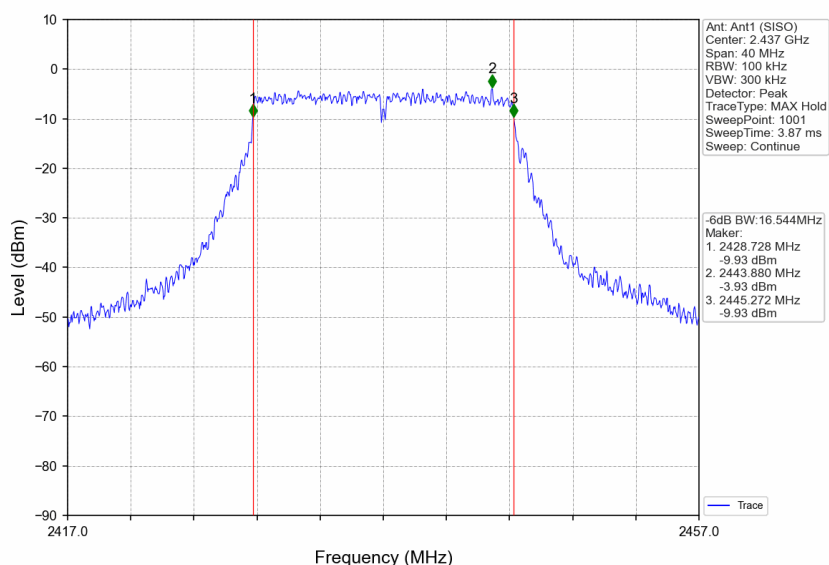
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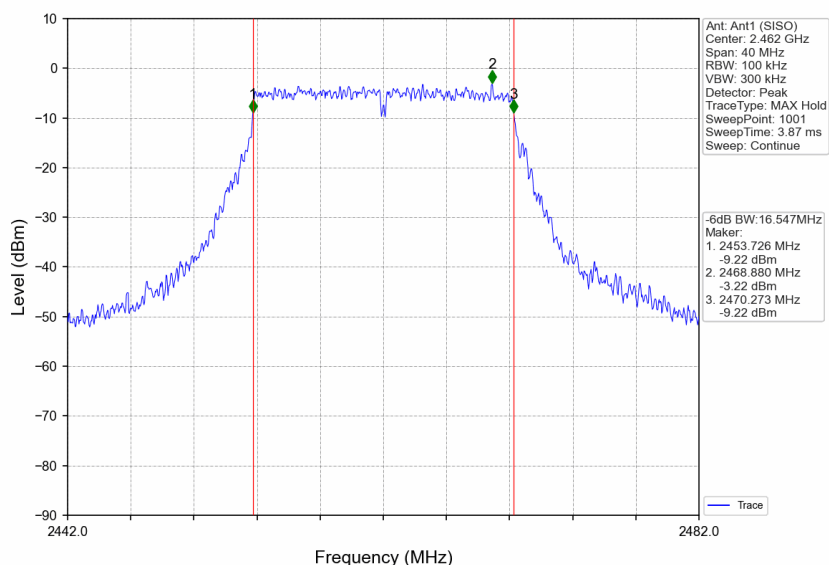
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



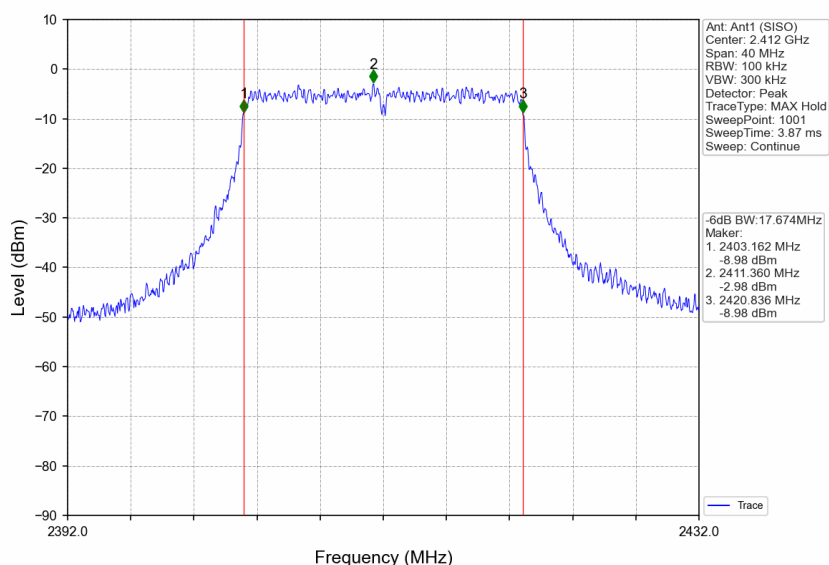
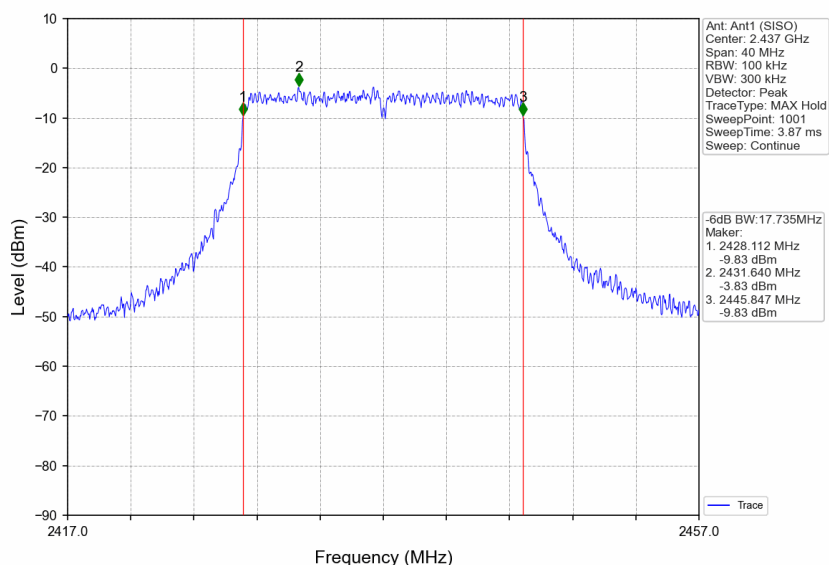
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV


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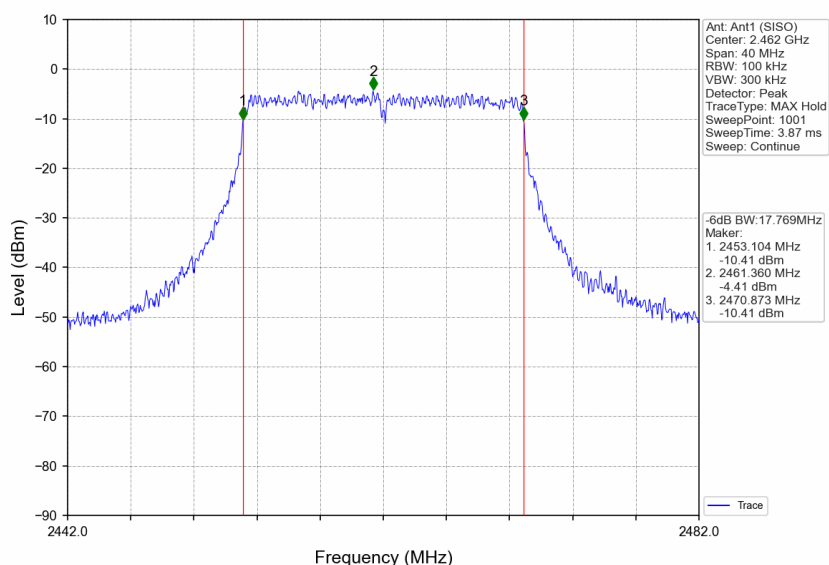
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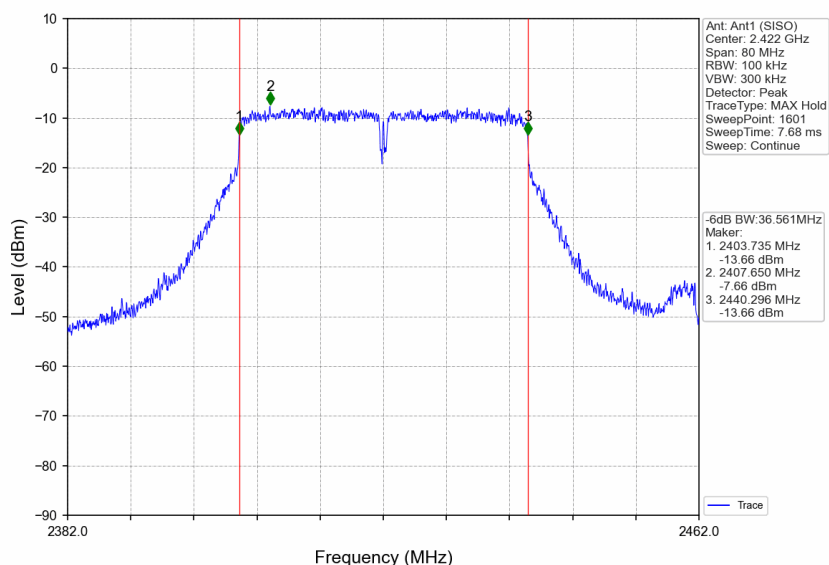
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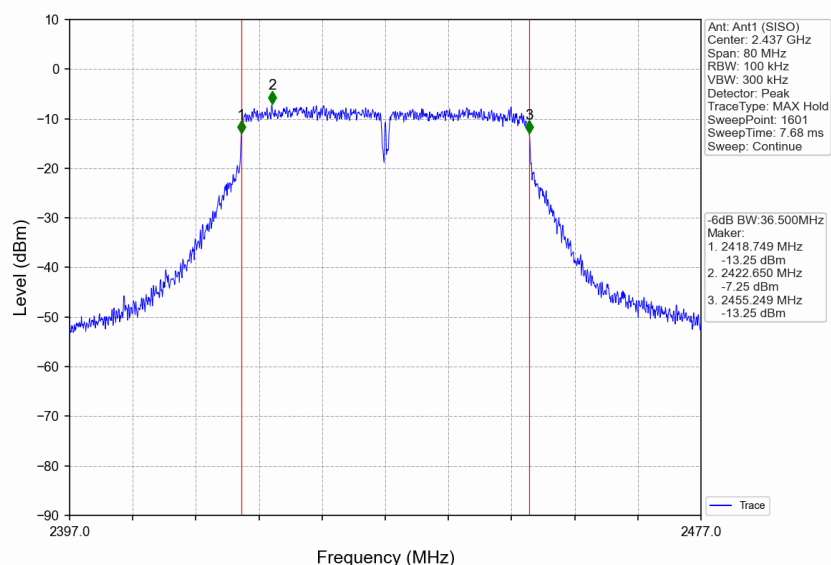
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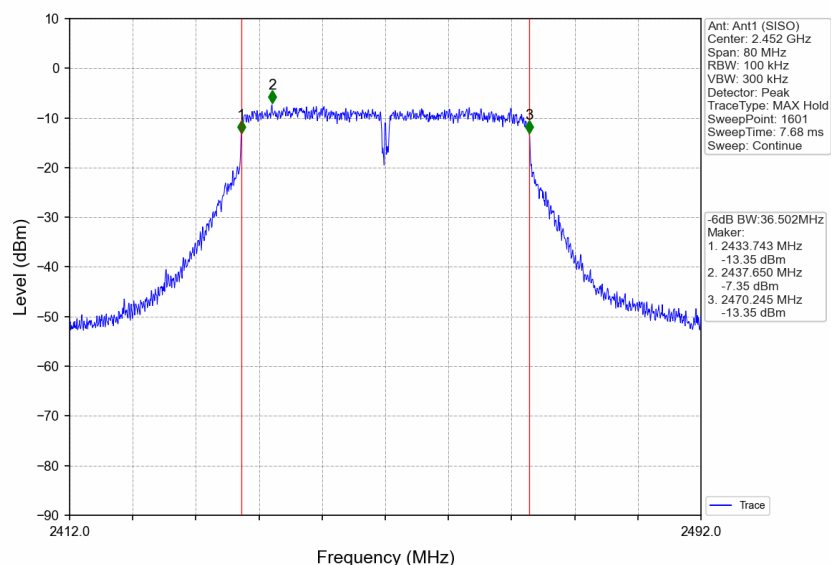
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	19.38	<=30	Pass
		2437	19.69	<=30	Pass
		2462	20.78	<=30	Pass
802.11g	SISO	2412	18.59	<=30	Pass
		2437	19.60	<=30	Pass
		2462	20.55	<=30	Pass
802.11n (HT20)	SISO	2412	18.71	<=30	Pass
		2437	19.68	<=30	Pass
		2462	20.94	<=30	Pass
802.11n (HT40)	SISO	2422	19.34	<=30	Pass
		2437	19.50	<=30	Pass
		2452	20.30	<=30	Pass

Note1: Antenna Gain: Ant1: 3.71dBi;

4. Maximum Power Spectral Density

4.1 PSD

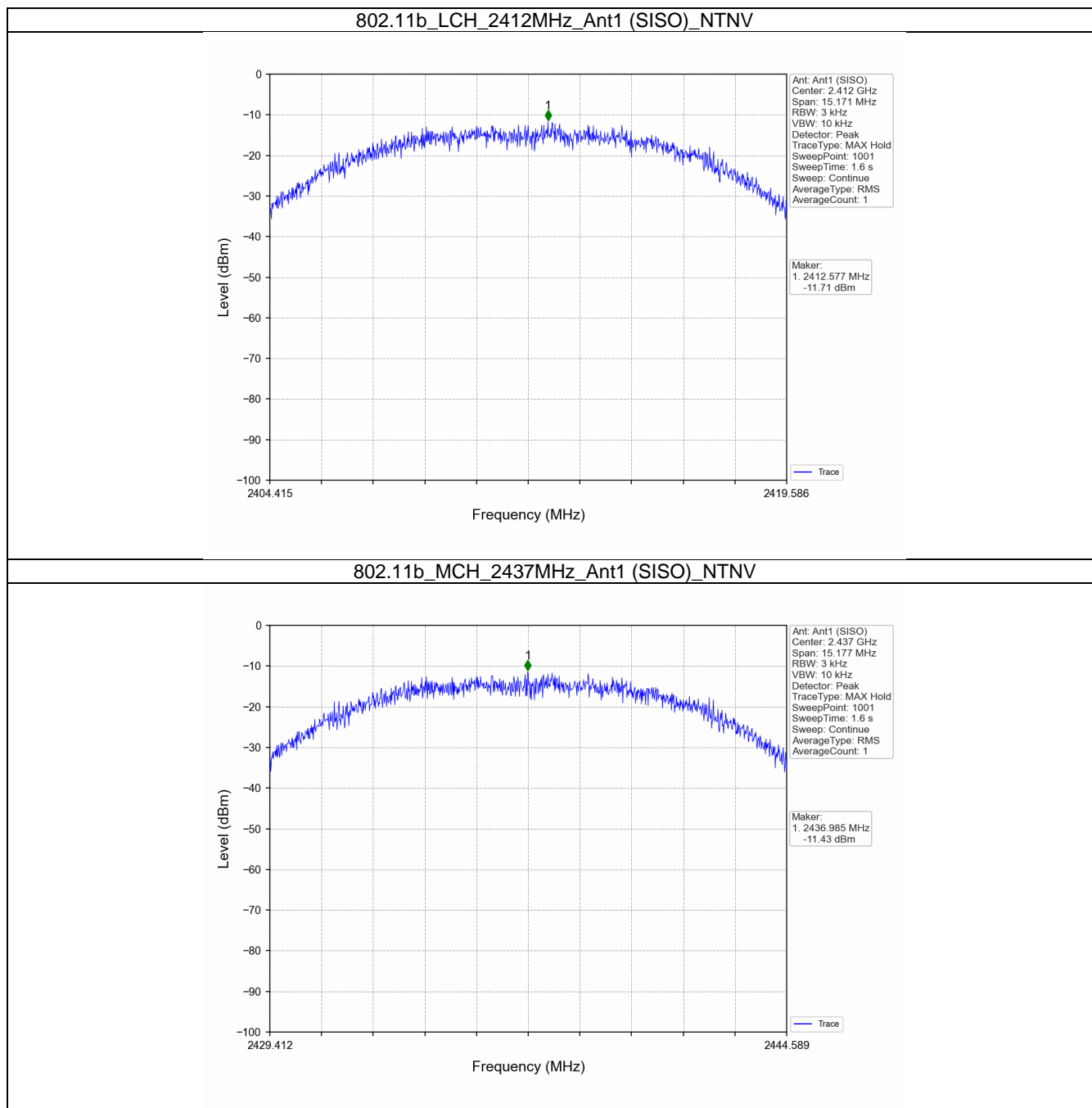
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-11.71	<=8	Pass
		2437	-11.43	<=8	Pass
		2462	-10.01	<=8	Pass
802.11g	SISO	2412	-17.11	<=8	Pass
		2437	-16.12	<=8	Pass
		2462	-15.46	<=8	Pass
802.11n (HT20)	SISO	2412	-16.60	<=8	Pass
		2437	-16.21	<=8	Pass
		2462	-14.95	<=8	Pass
802.11n (HT40)	SISO	2422	-17.32	<=8	Pass
		2437	-18.00	<=8	Pass
		2452	-18.23	<=8	Pass

Note1: Antenna Gain: Ant1: 3.71dBi;



4.1.2 Test Graph



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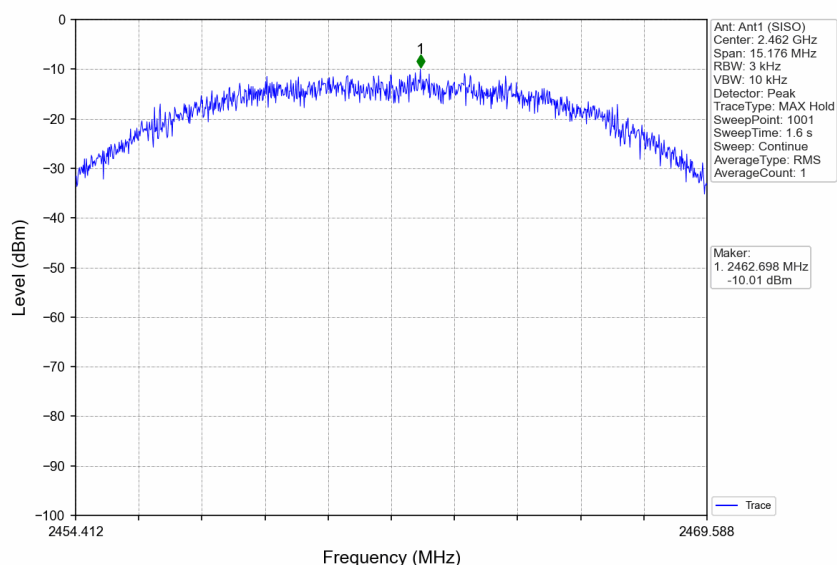
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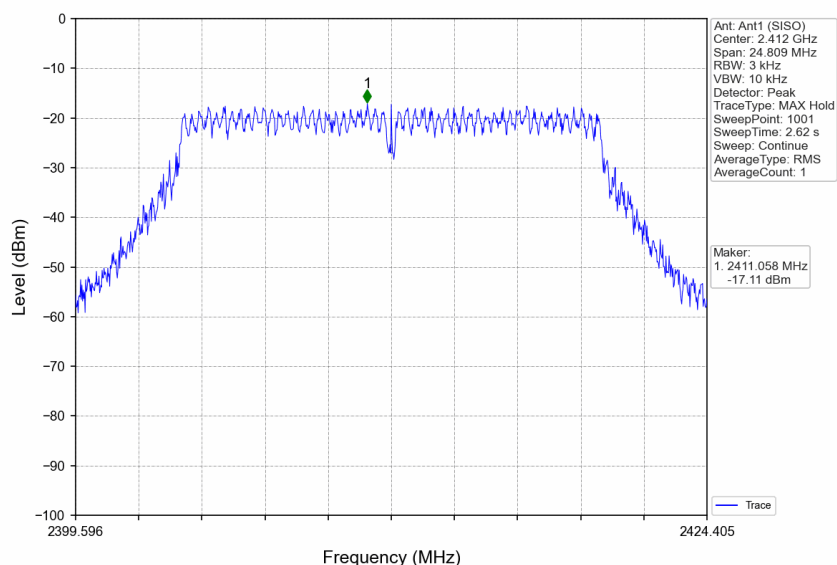
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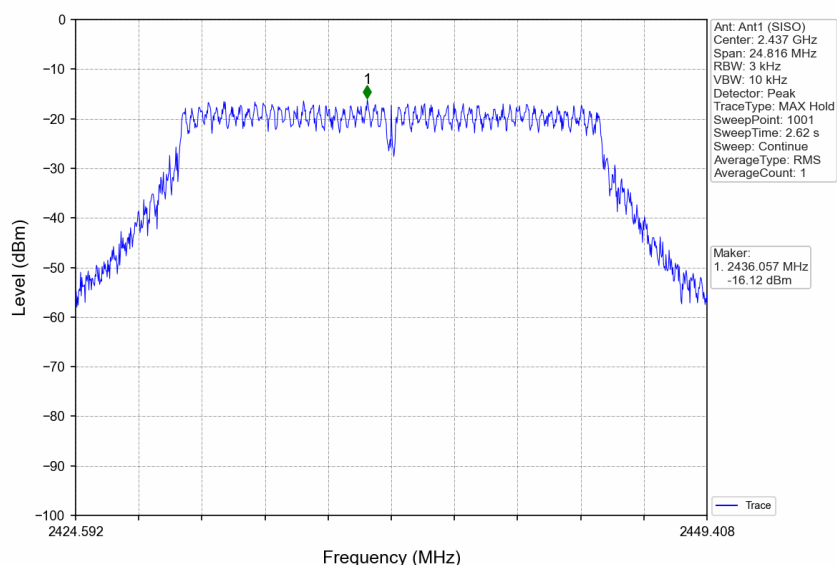
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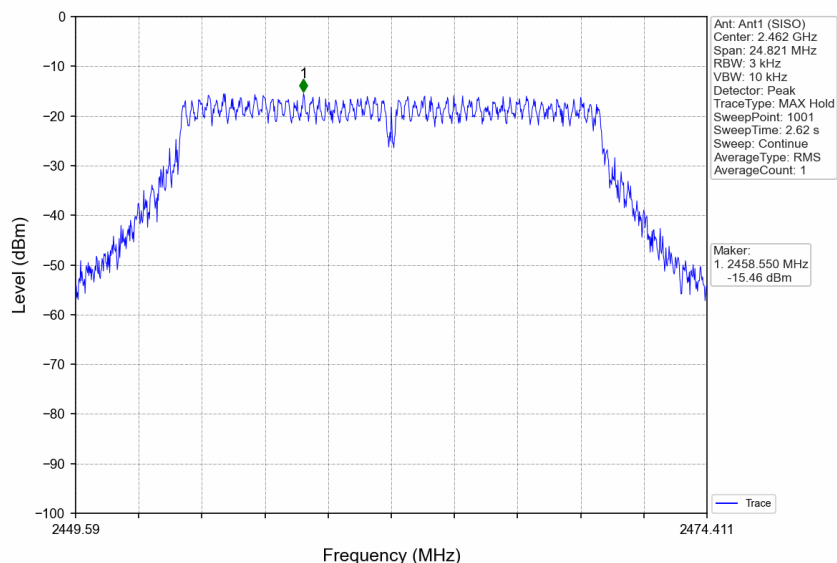
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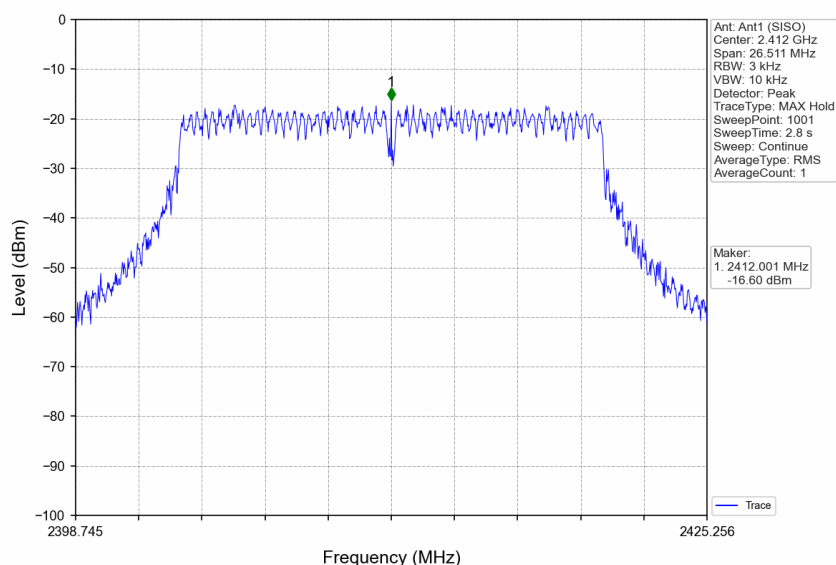
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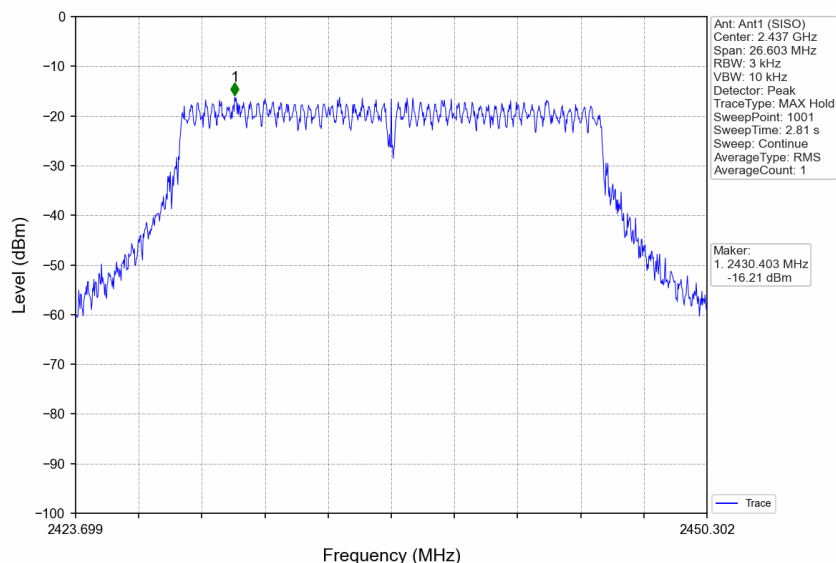
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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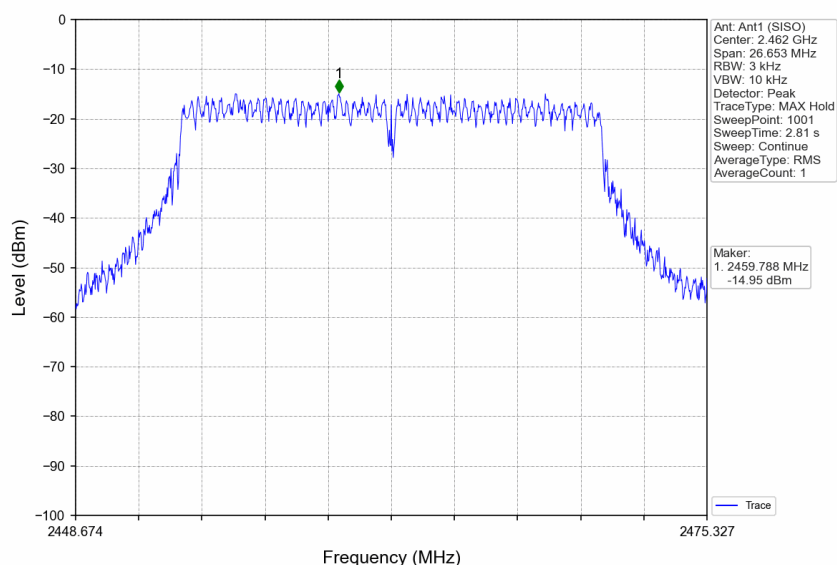
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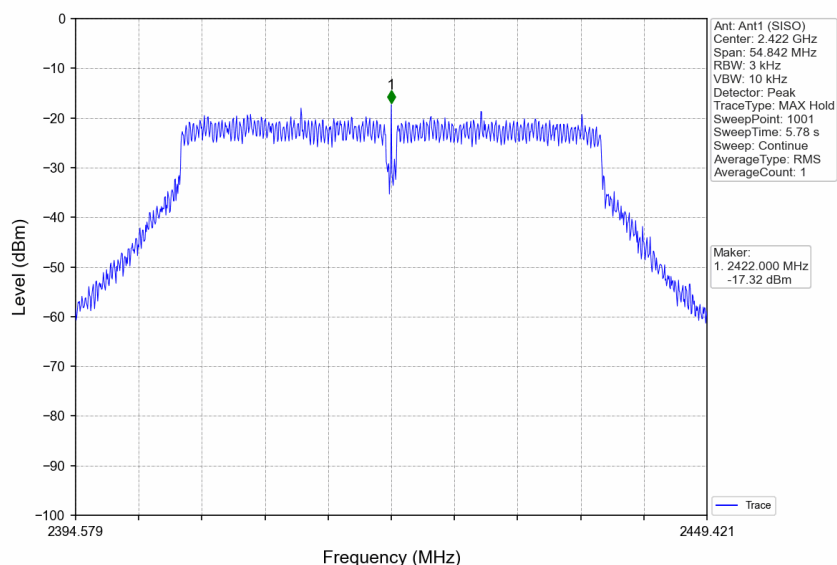
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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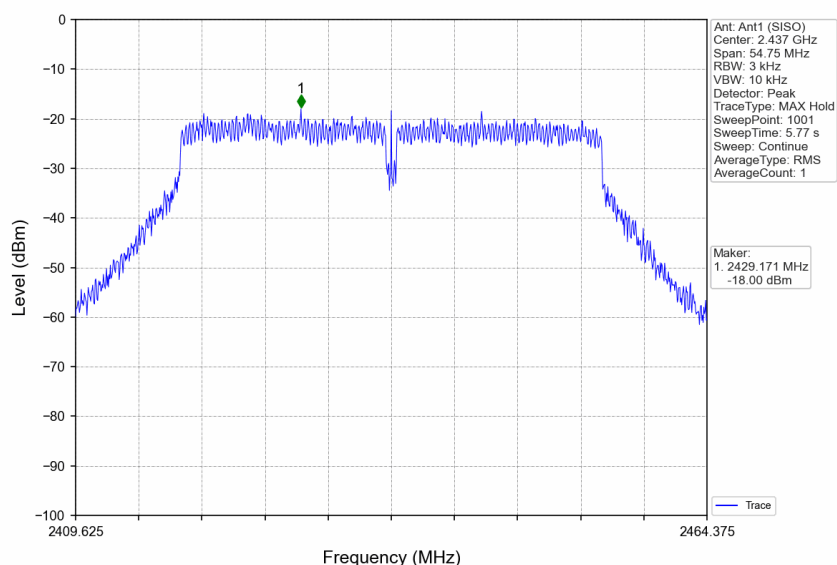
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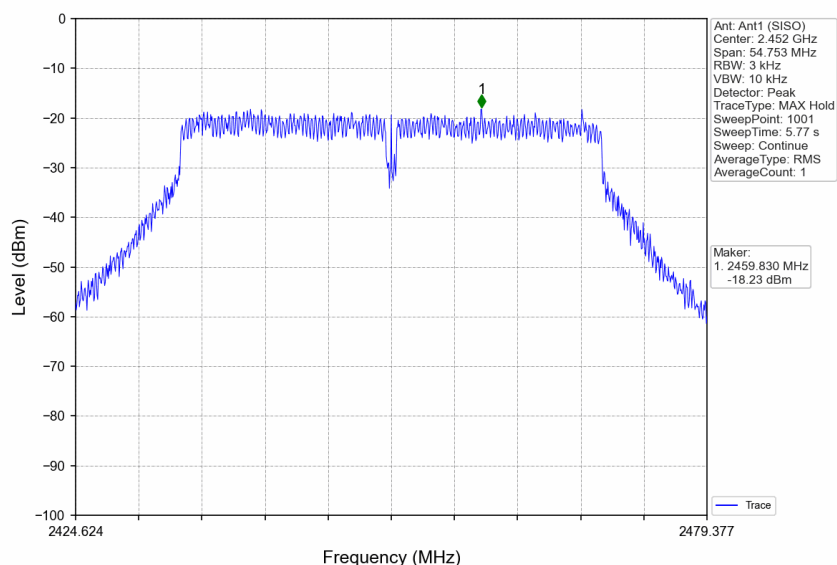
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

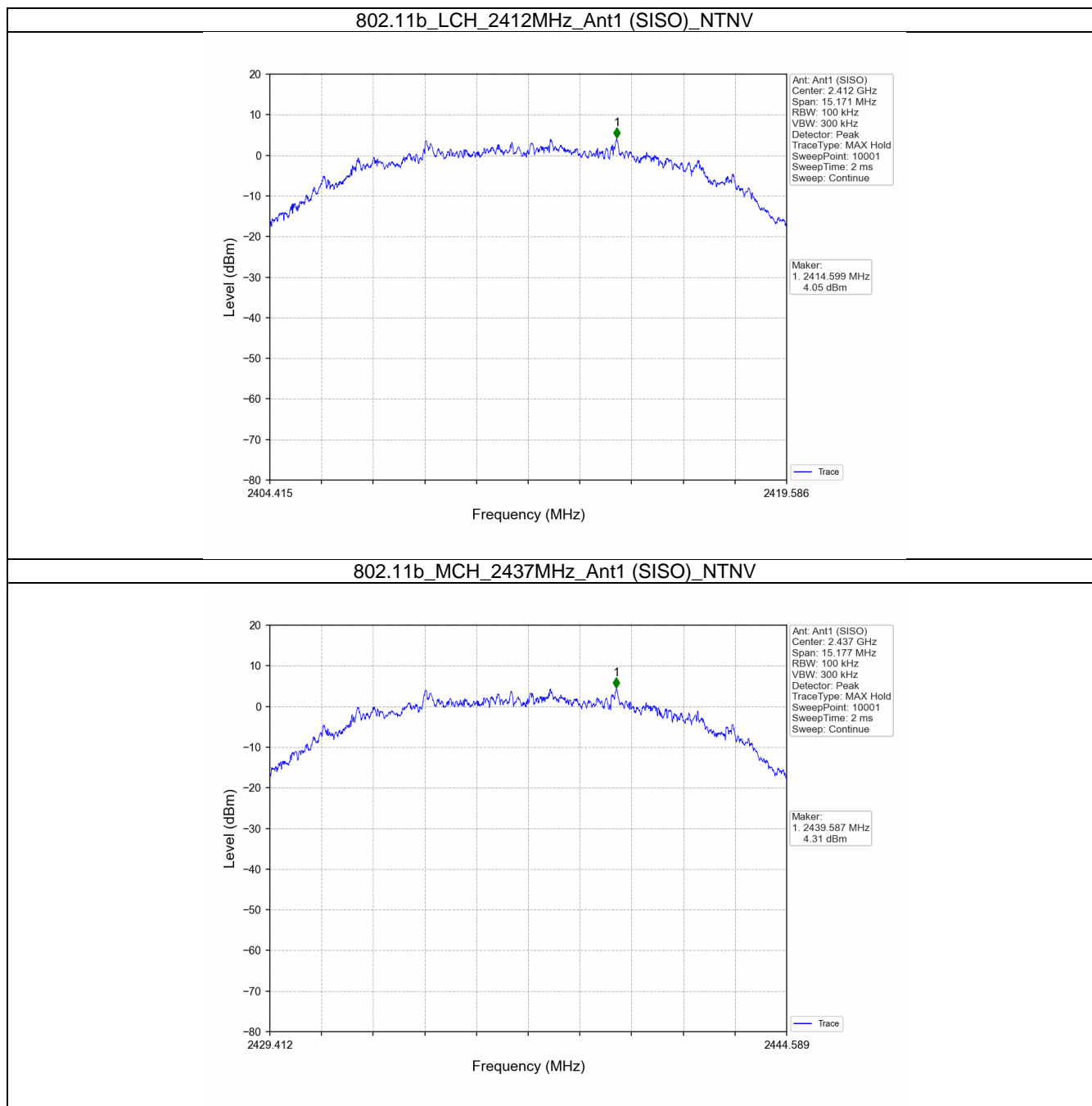
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.05
		2437	1	4.31
		2462	1	5.37
802.11g	SISO	2412	1	-2.29
		2437	1	-1.47
		2462	1	-0.54
802.11n (HT20)	SISO	2412	1	-2.23
		2437	1	-1.13
		2462	1	0.06
802.11n (HT40)	SISO	2422	1	-5.66
		2437	1	-5.29
		2452	1	-4.30

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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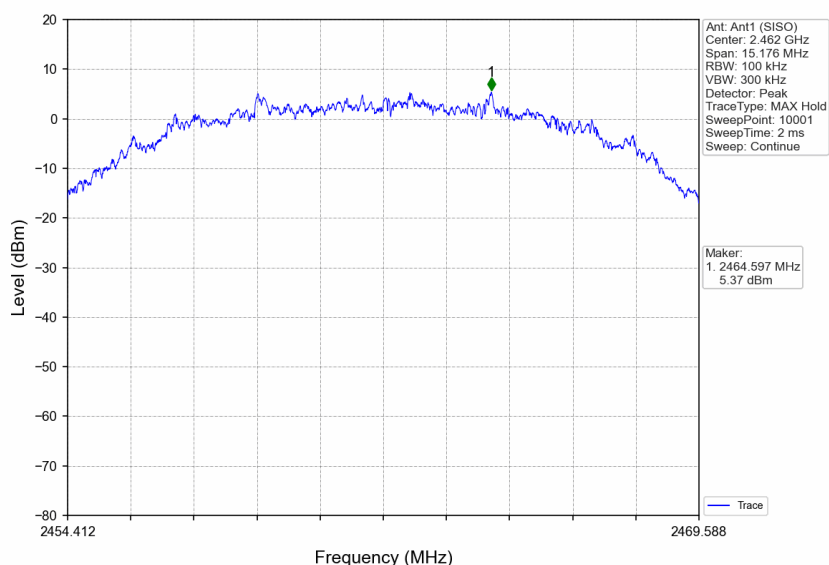
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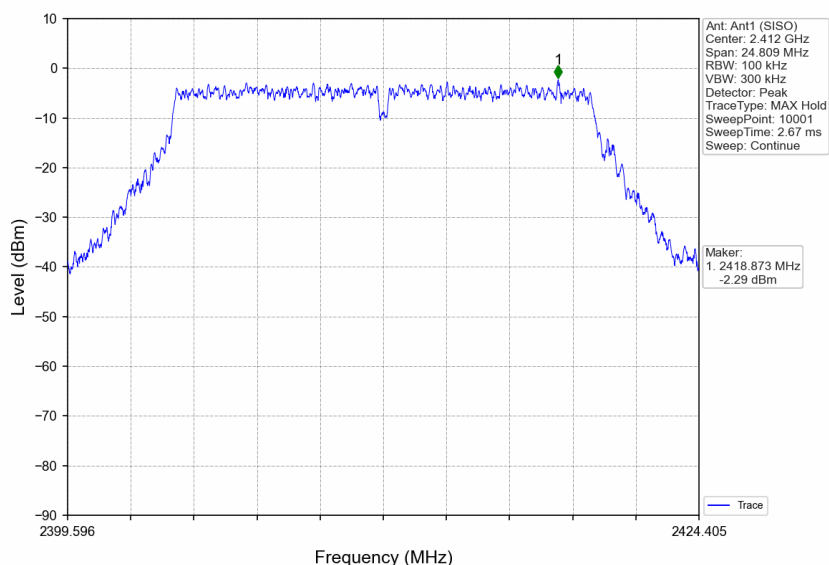
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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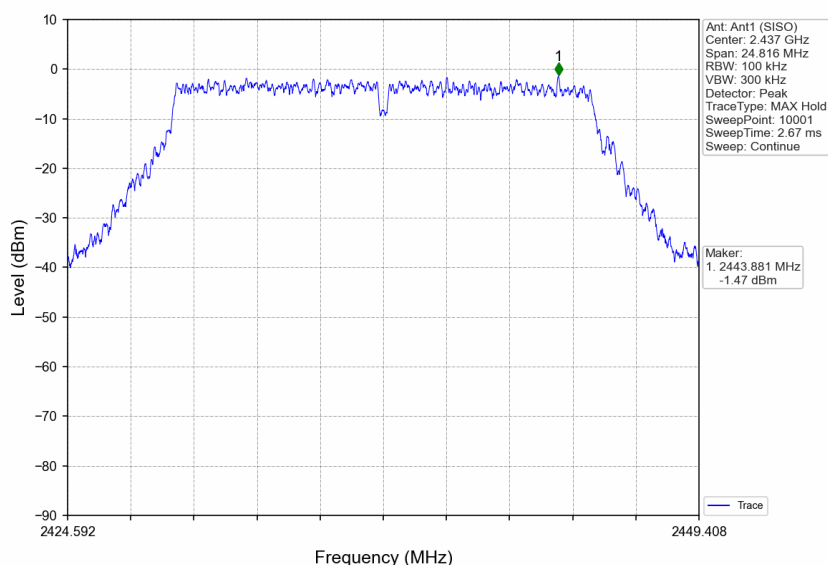
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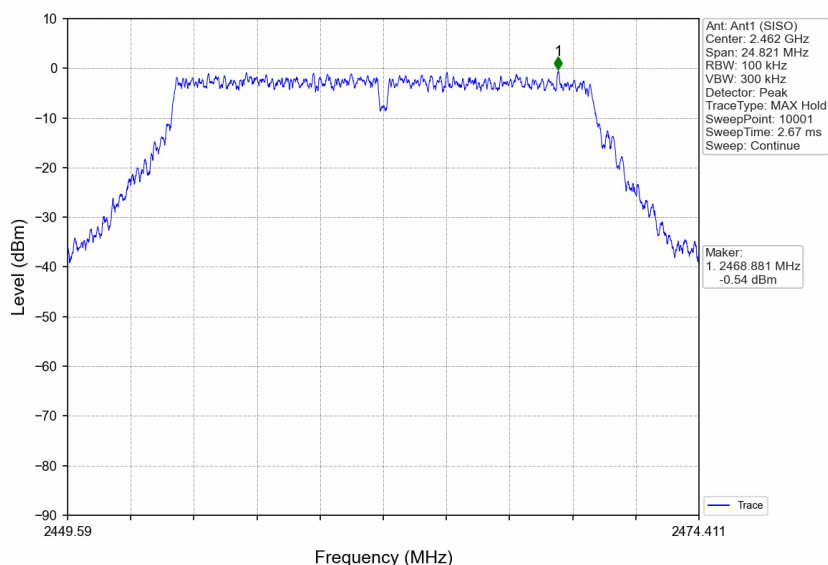
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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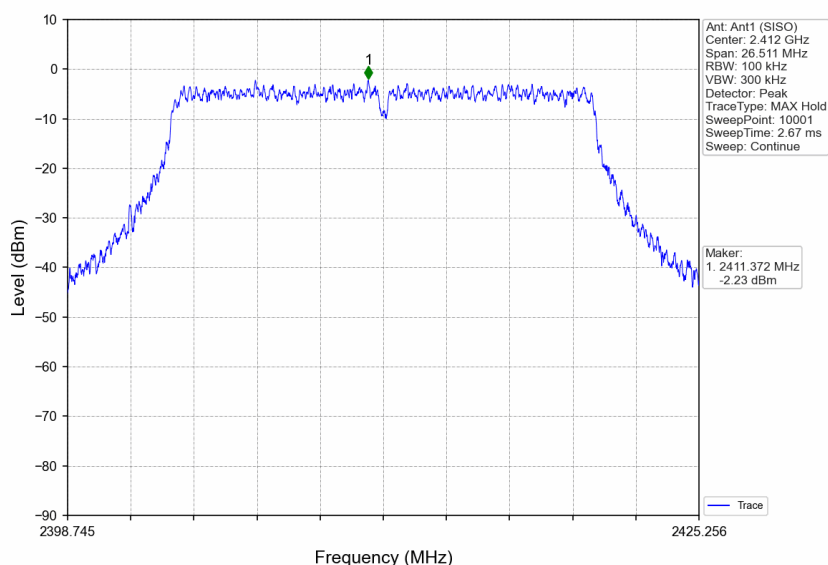
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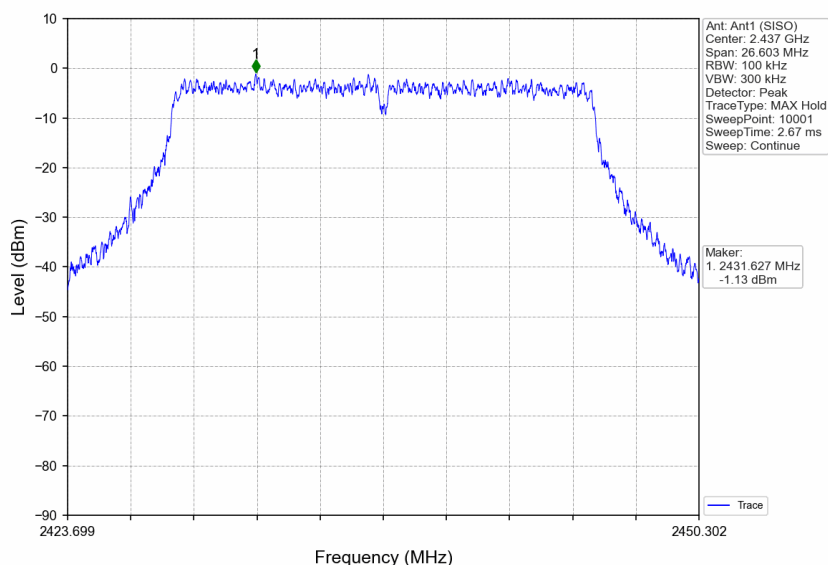
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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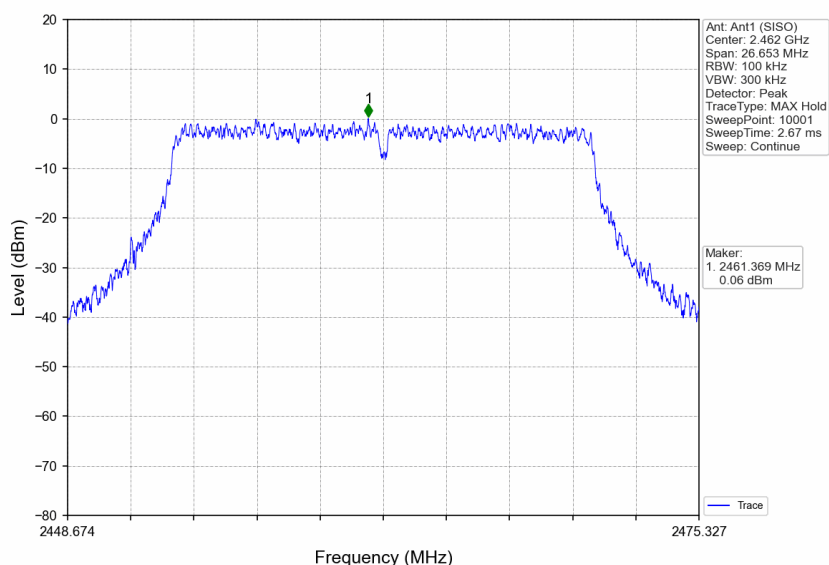
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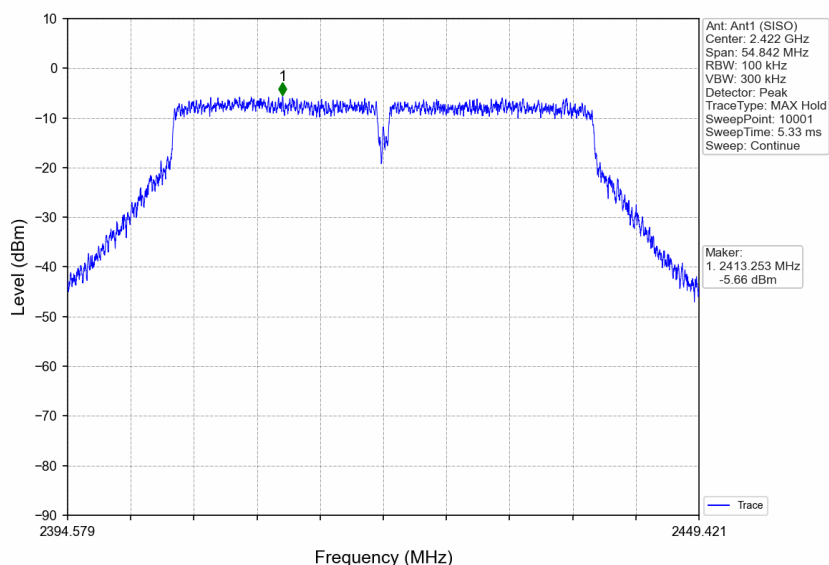
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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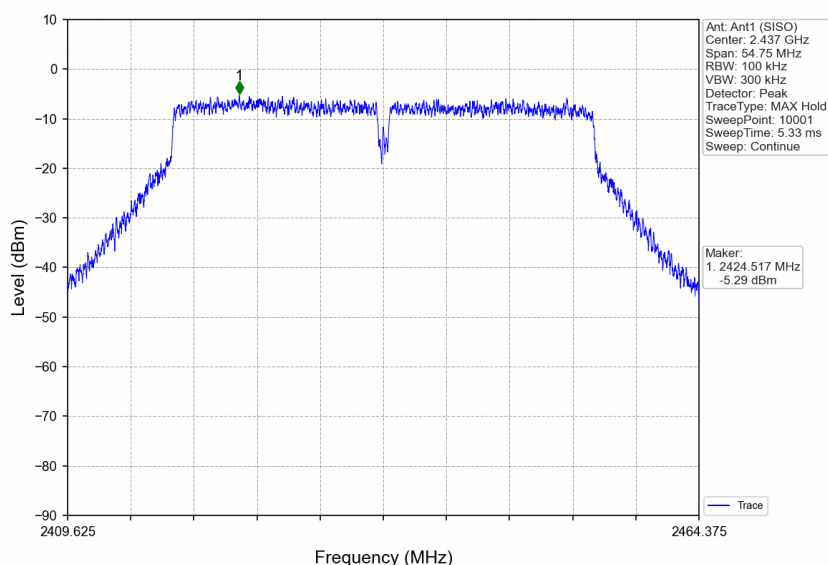
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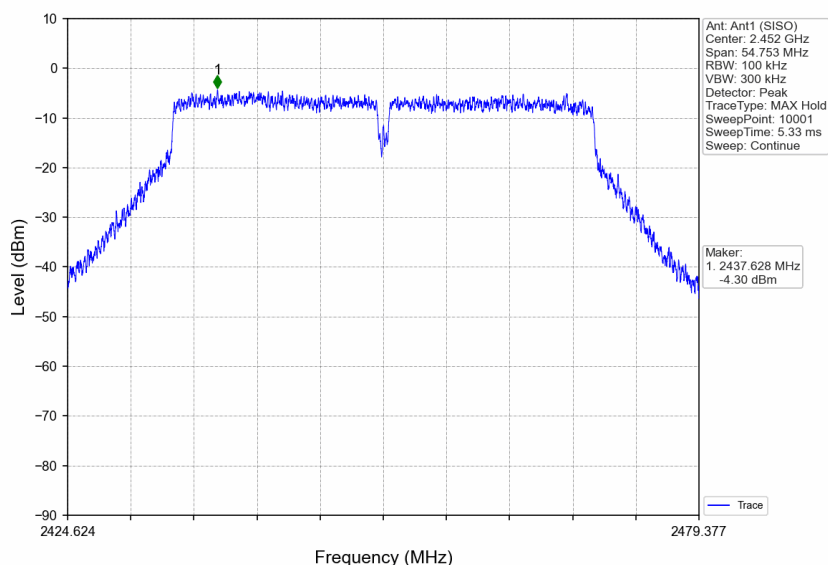
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

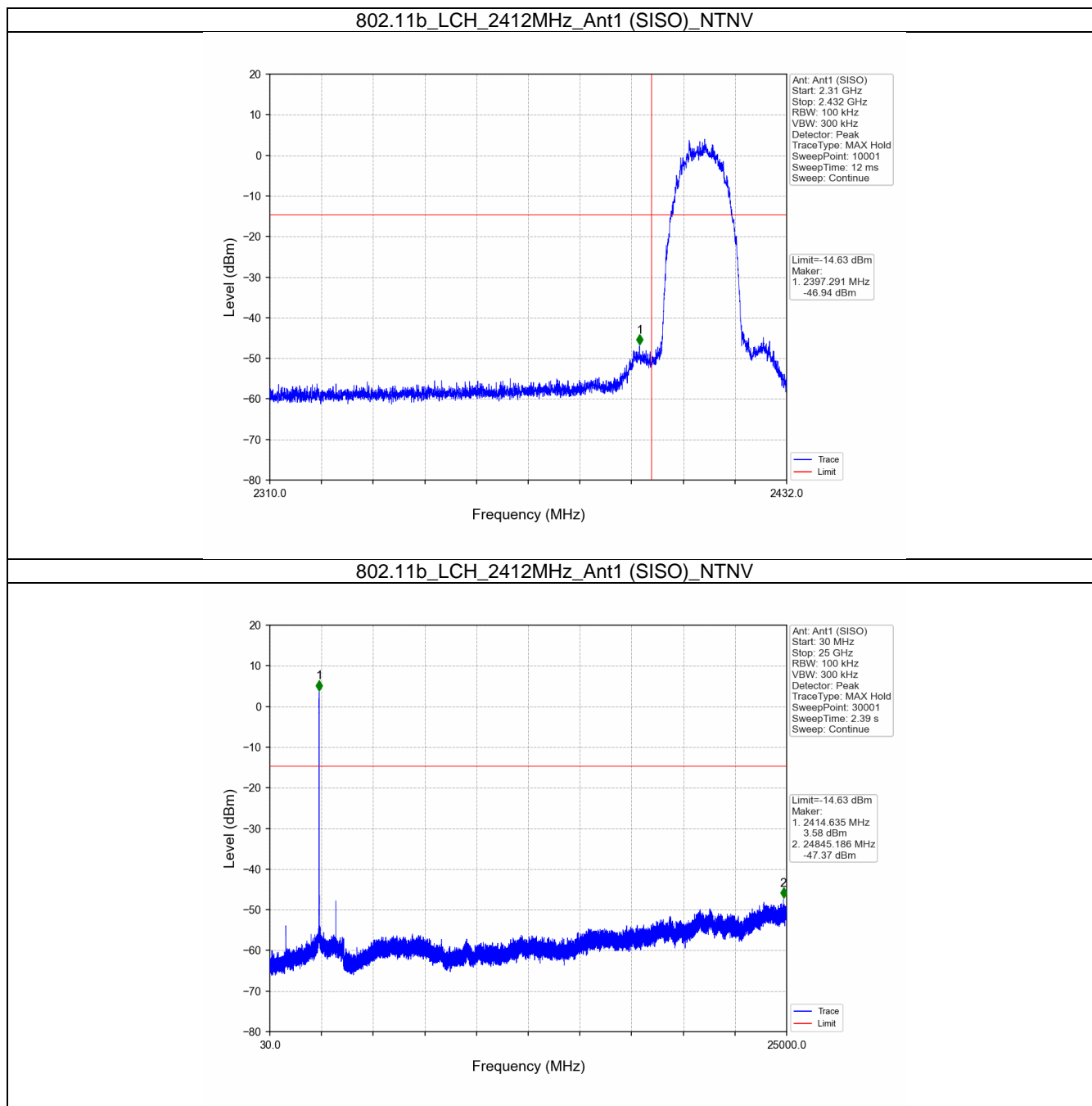
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.37	-14.63	Pass
		2437	1	5.37	-14.63	Pass
		2462	1	5.37	-14.63	Pass
802.11g	SISO	2412	1	-0.54	-20.54	Pass
		2437	1	-0.54	-20.54	Pass
		2462	1	-0.54	-20.54	Pass
802.11n (HT20)	SISO	2412	1	0.06	-19.94	Pass
		2437	1	0.06	-19.94	Pass
		2462	1	0.06	-19.94	Pass
802.11n (HT40)	SISO	2422	1	-4.30	-24.30	Pass
		2437	1	-4.30	-24.30	Pass
		2452	1	-4.30	-24.30	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.



5.2.2 Test Graph



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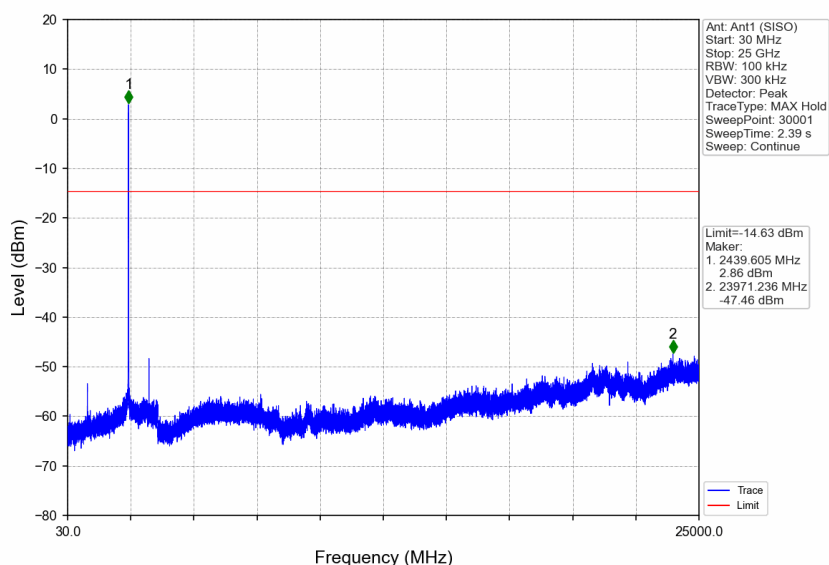
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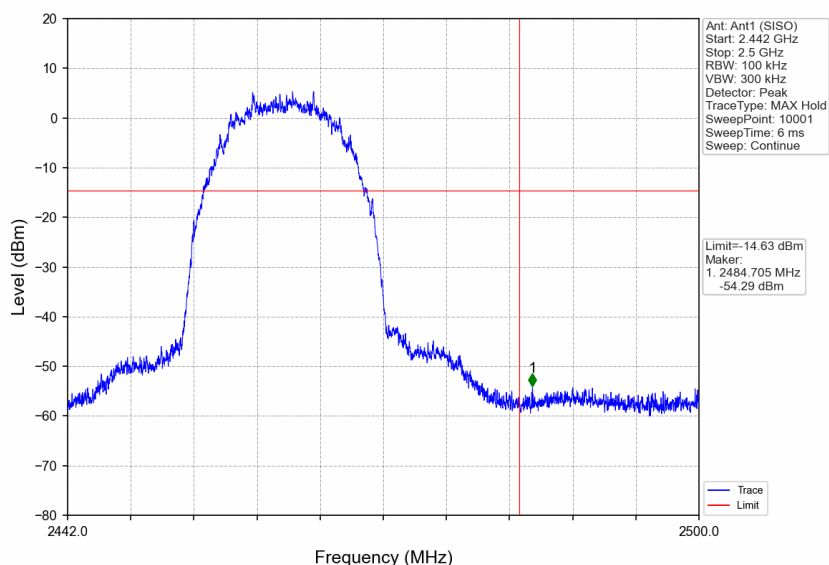
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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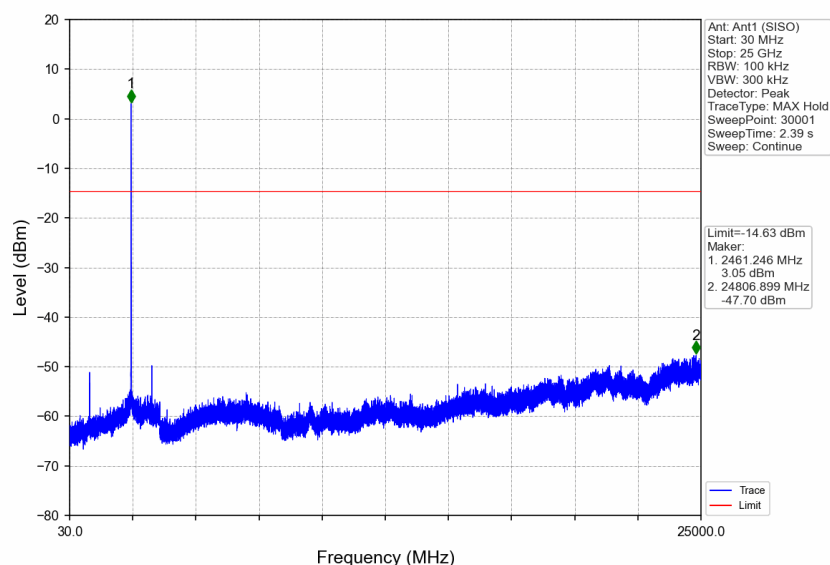
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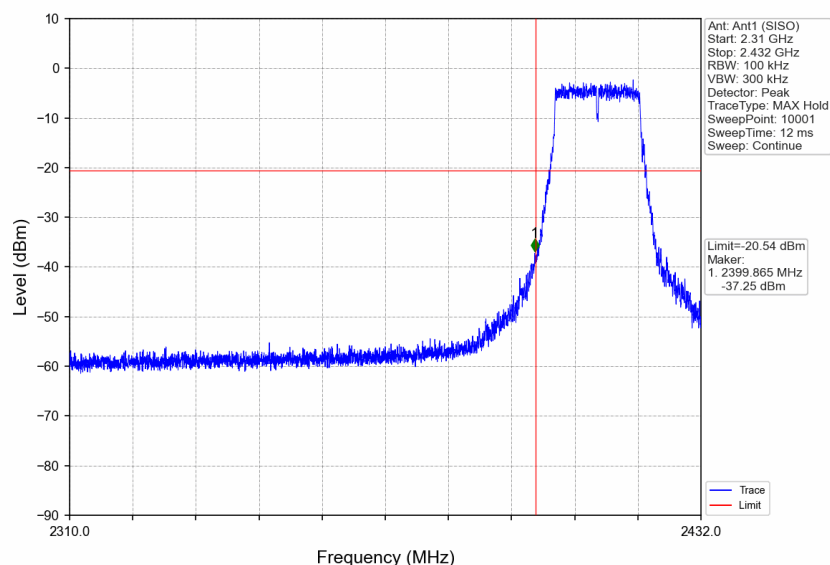
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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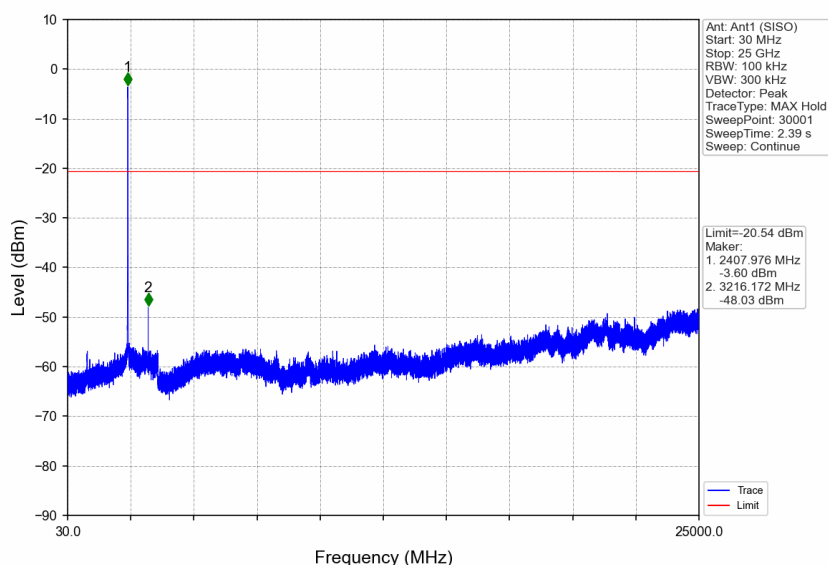
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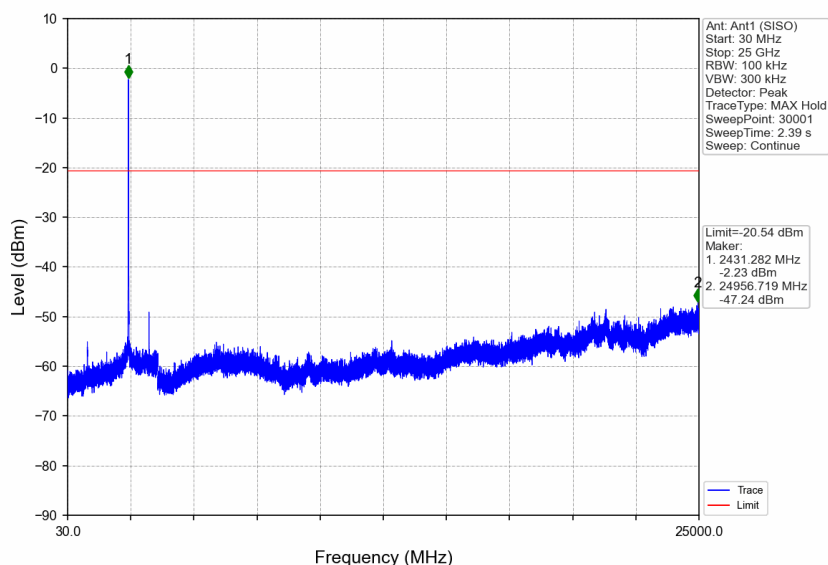
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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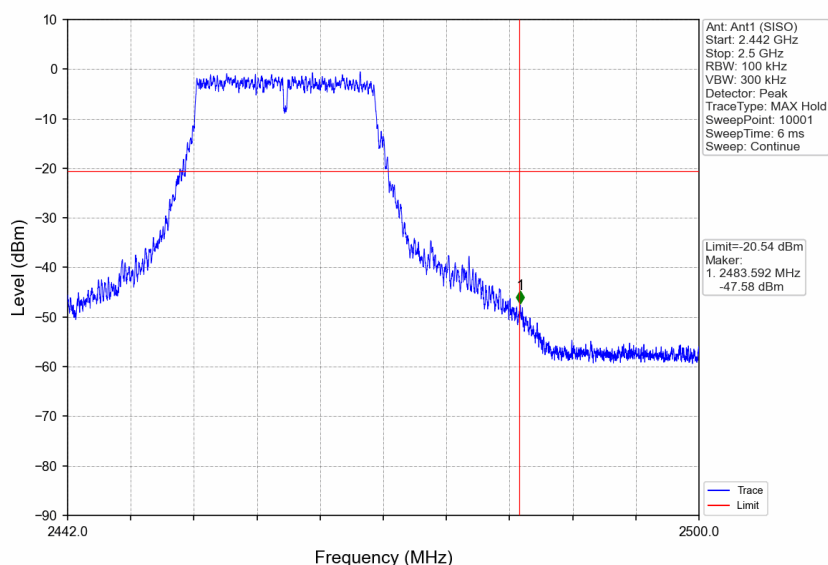
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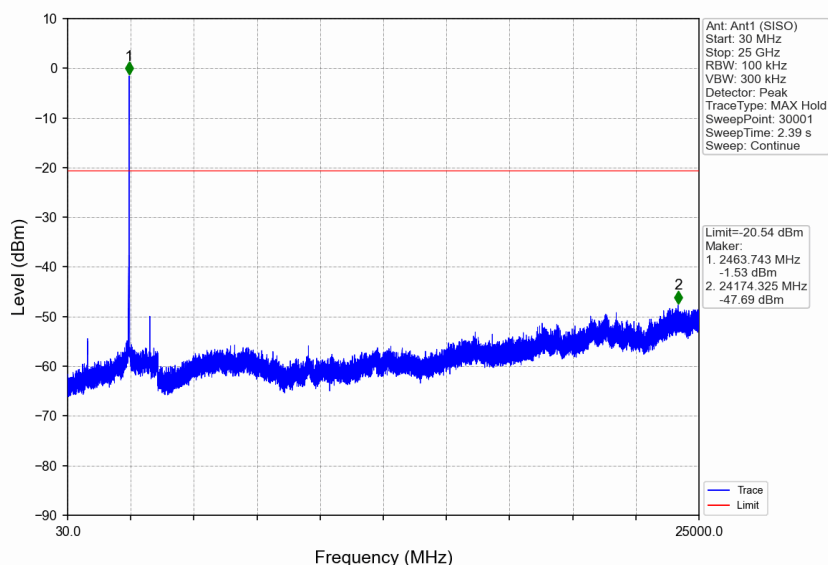
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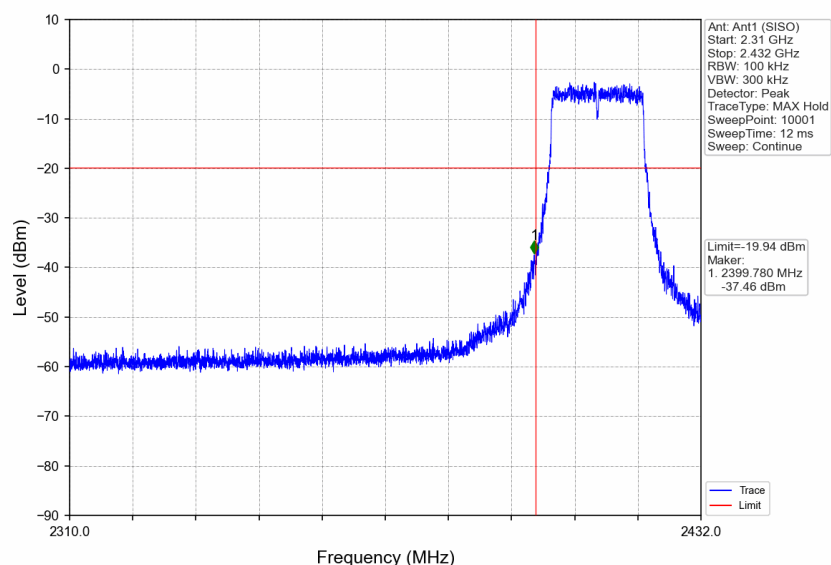
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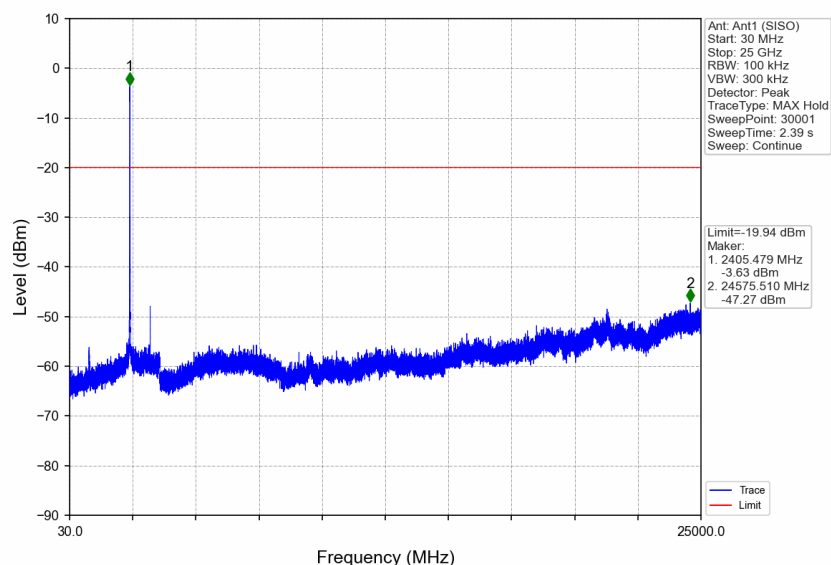
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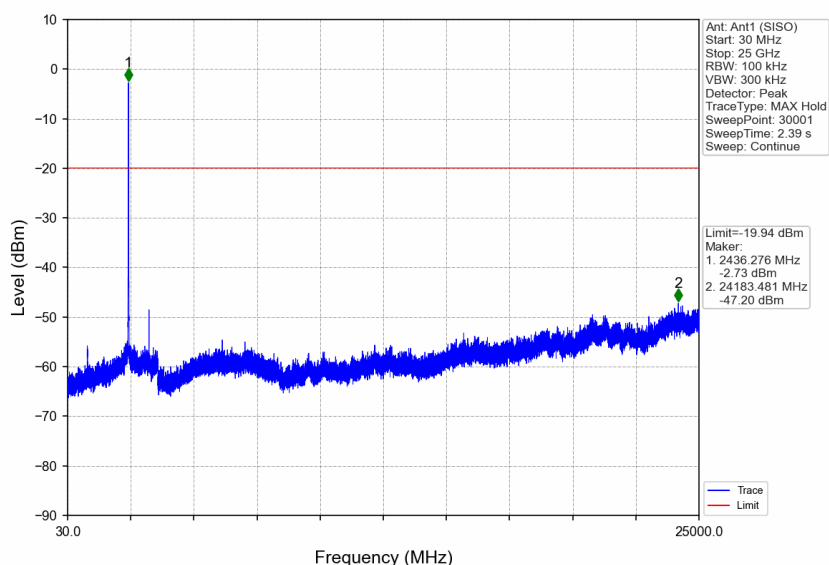
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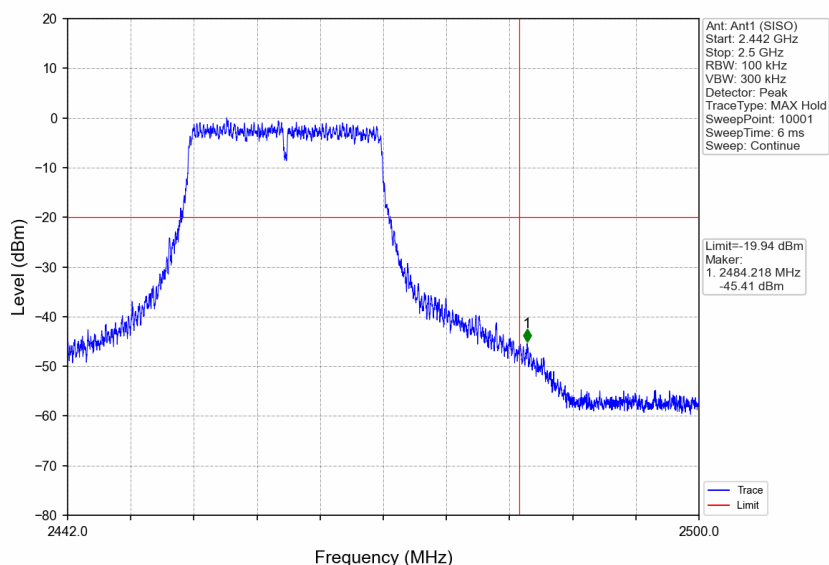
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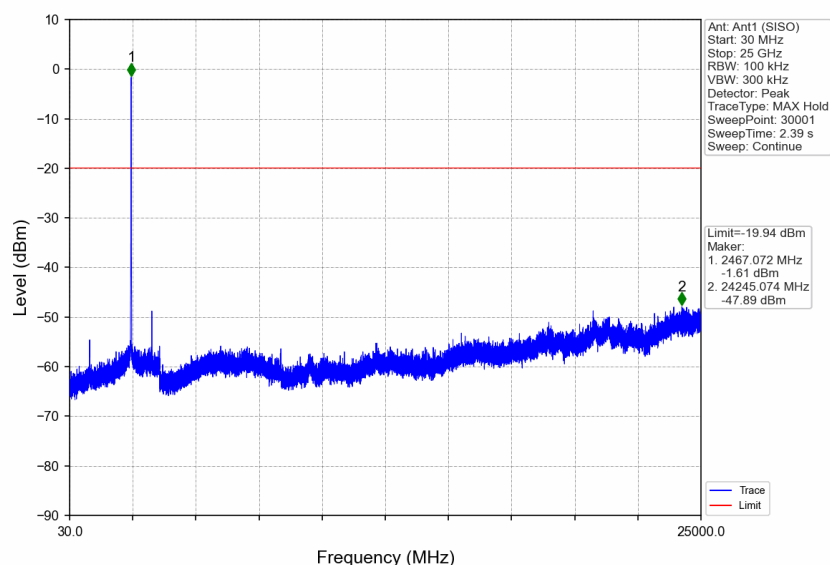
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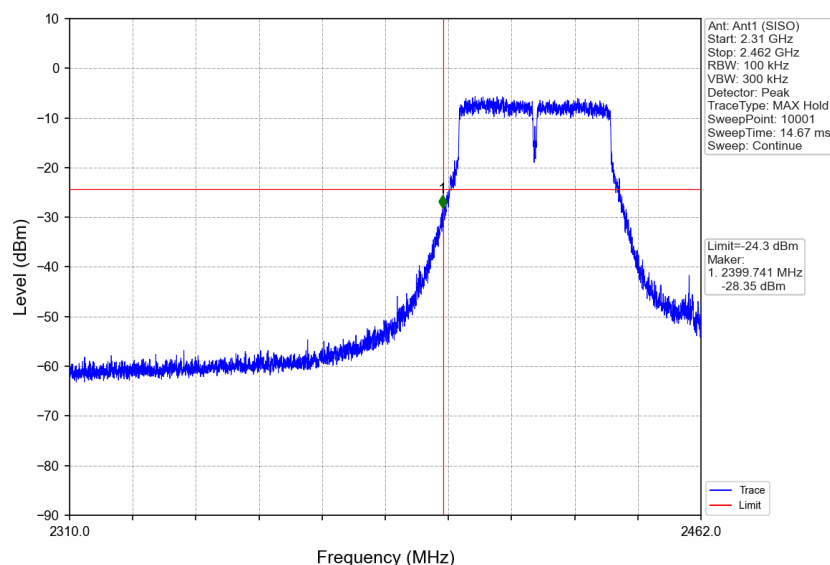
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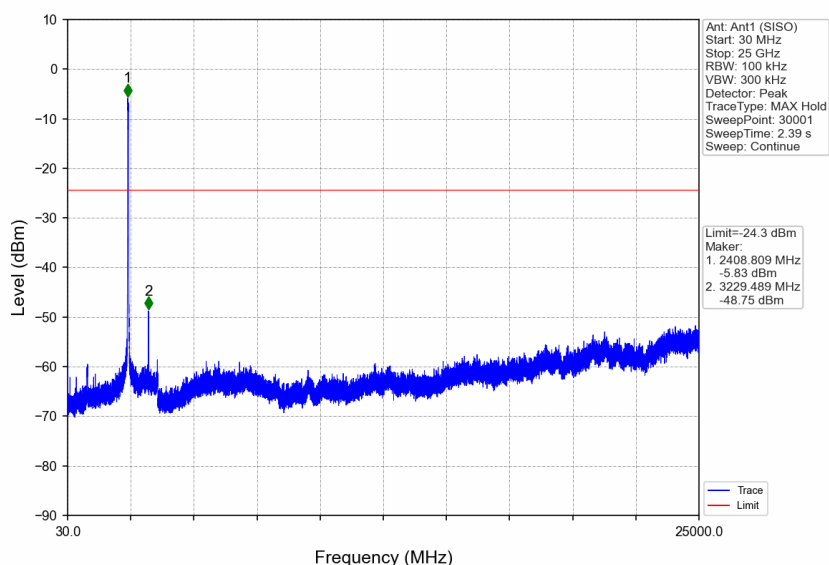
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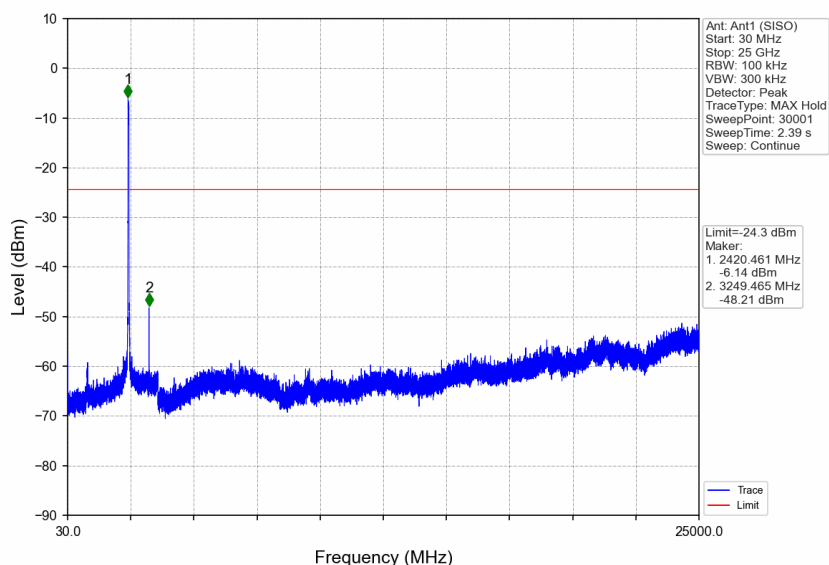
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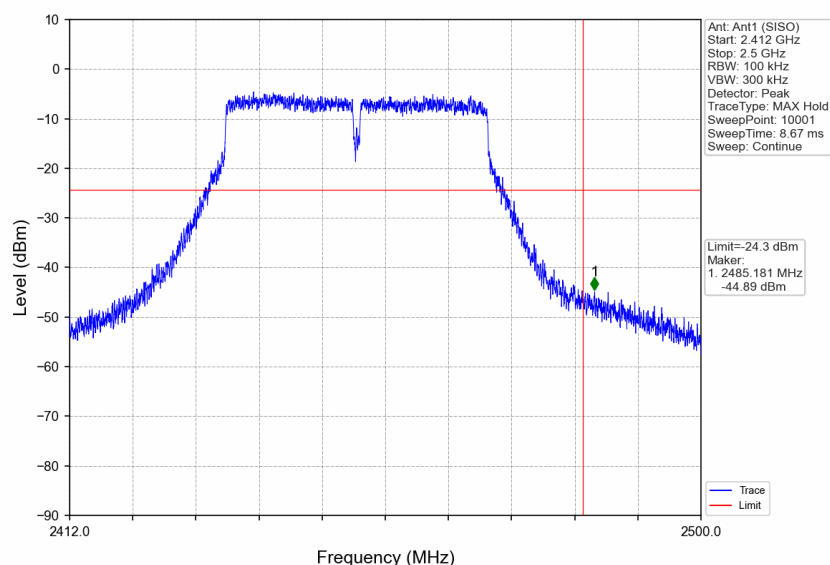
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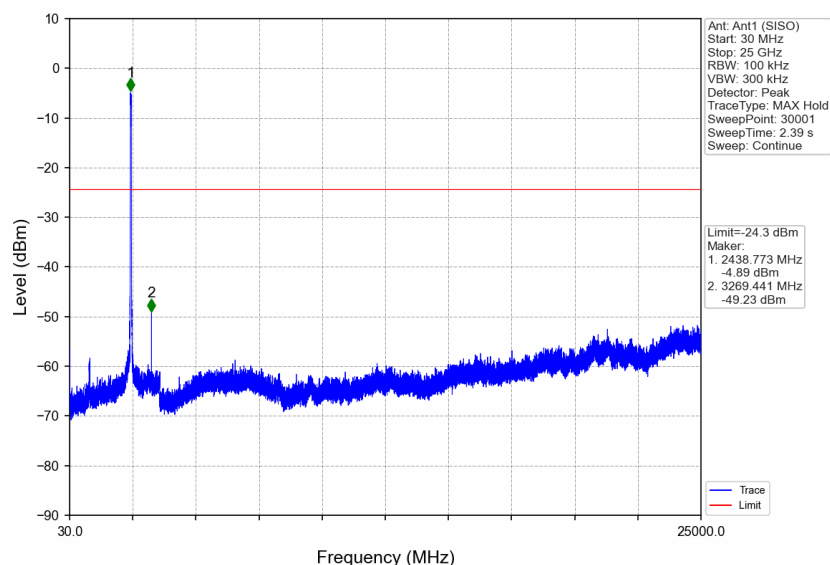
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