

Appendix C for KSCR211200029003

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

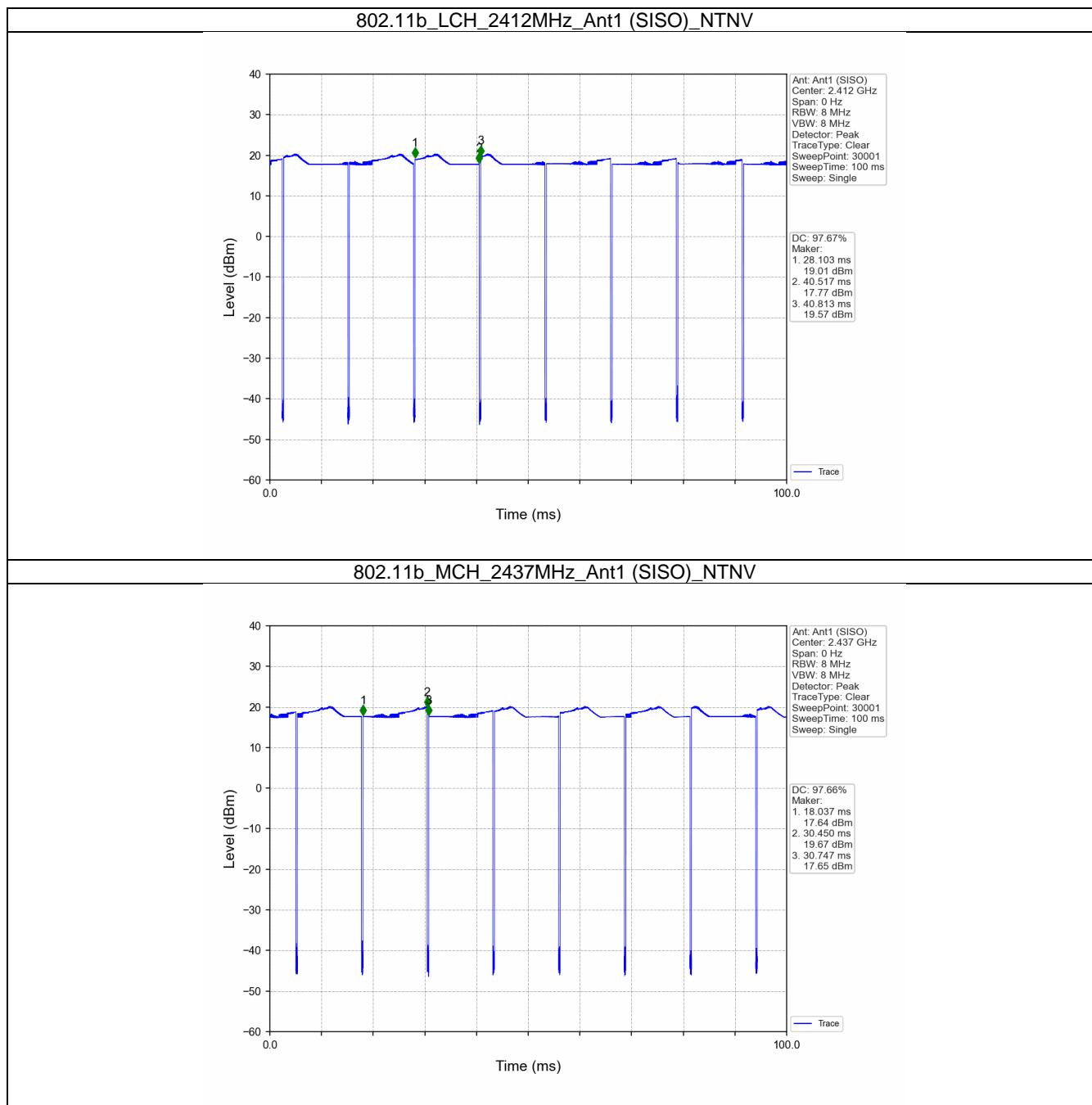
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.414	12.710	97.67	0.10	0.03
		2437	12.413	12.710	97.66	0.10	0.00
		2462	12.413	12.710	97.66	0.10	0.00
802.11g	SISO	2412	2.064	2.367	87.20	0.59	0.03
		2437	2.063	2.366	87.19	0.60	0.03
		2462	2.063	2.367	87.16	0.60	0.03
802.11n (HT20)	SISO	2412	1.920	2.223	86.37	0.64	0.00
		2437	1.919	2.222	86.36	0.64	0.04
		2462	1.919	2.222	86.36	0.64	0.04
802.11n (HT40)	SISO	2422	0.112	0.431	25.99	5.85	0.11
		2437	0.130	0.431	30.16	5.21	0.05
		2452	0.111	0.430	25.81	5.88	0.13

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1.1.2 Test Graph

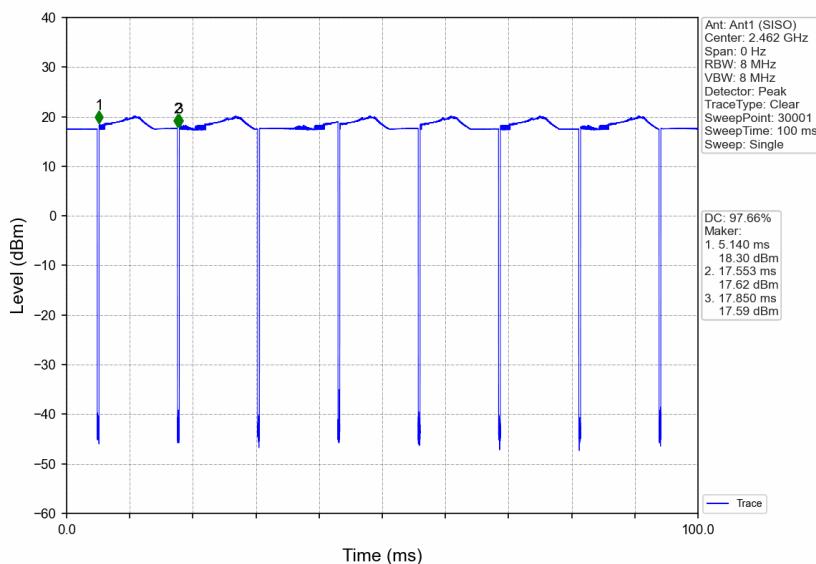


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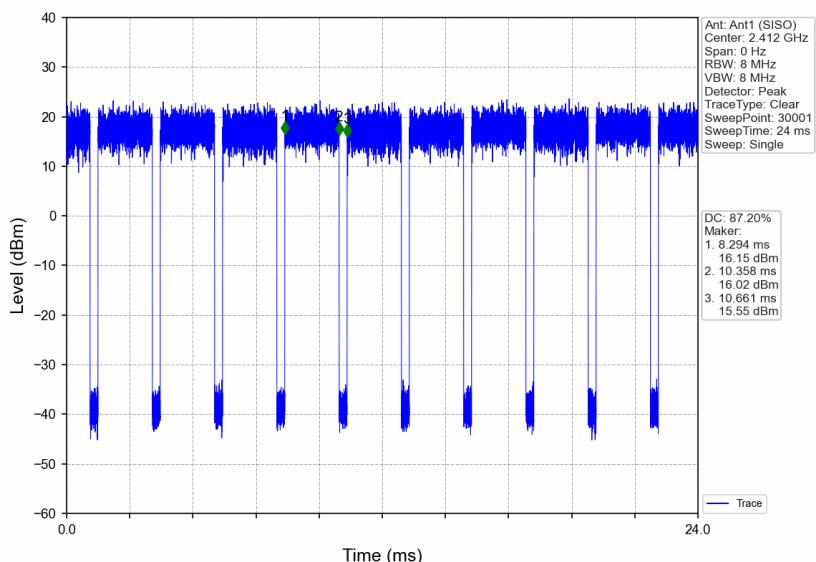
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

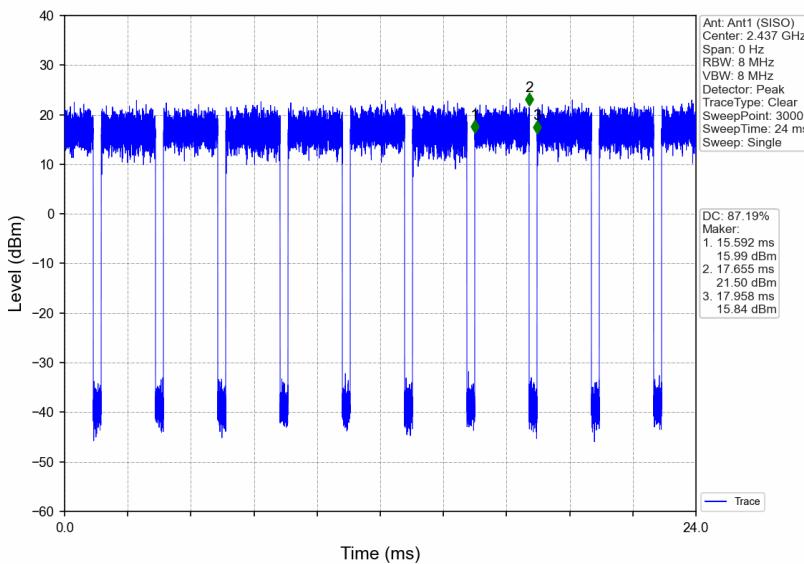


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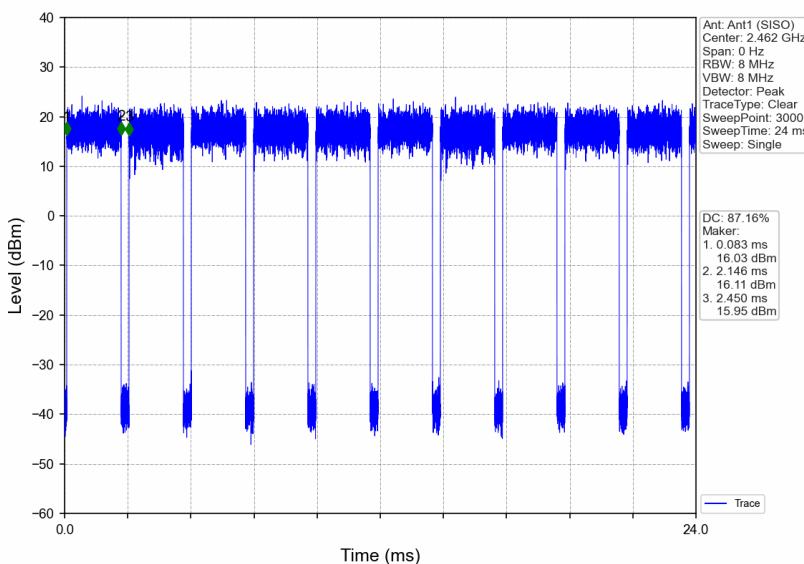
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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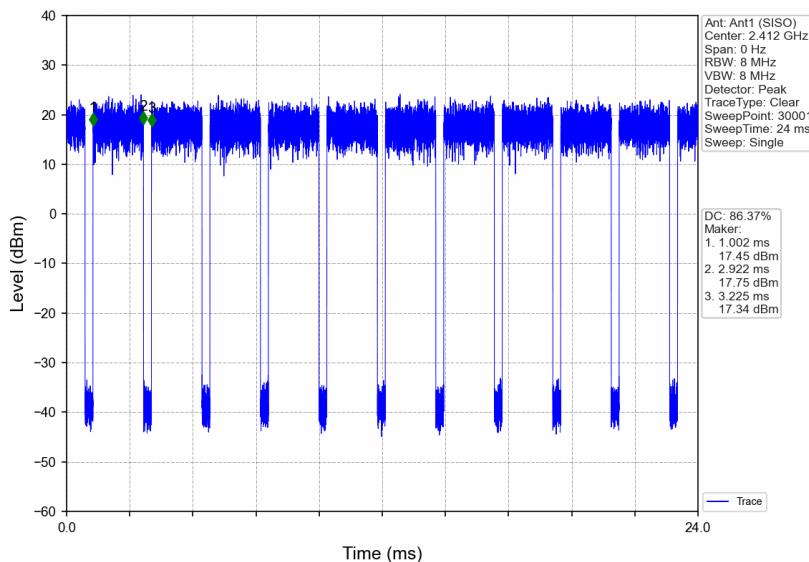


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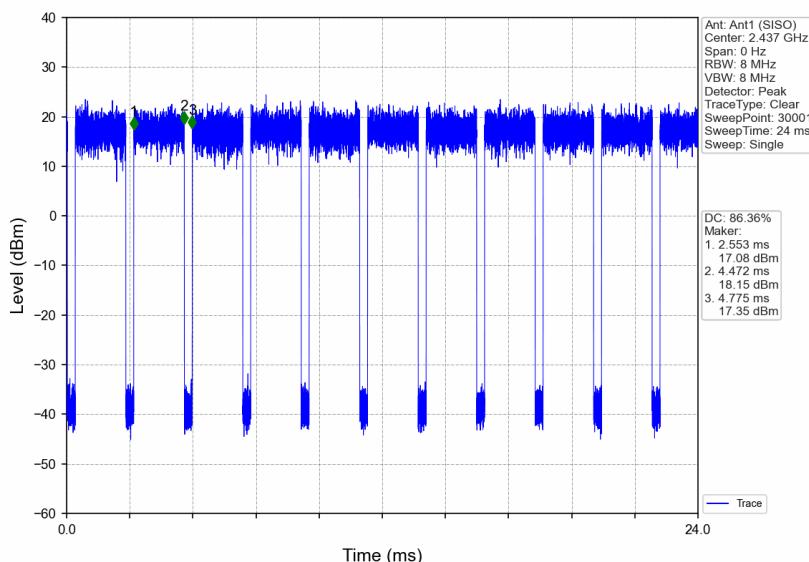
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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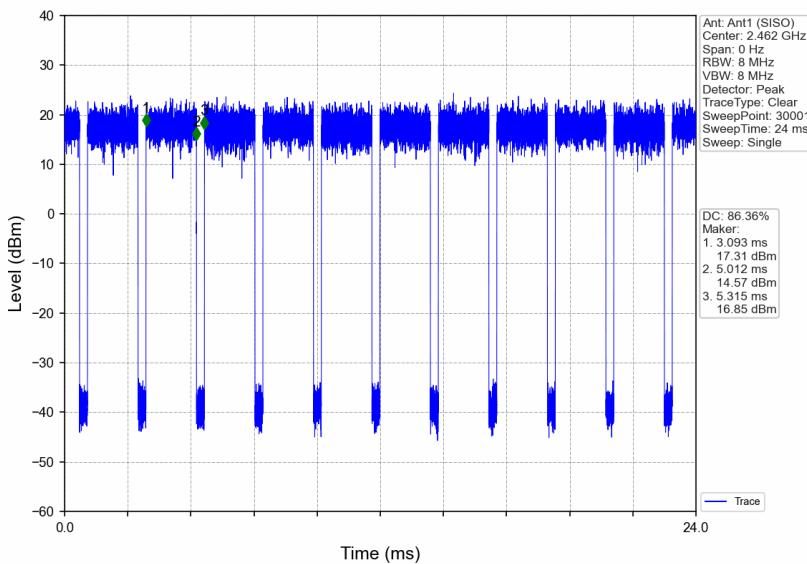


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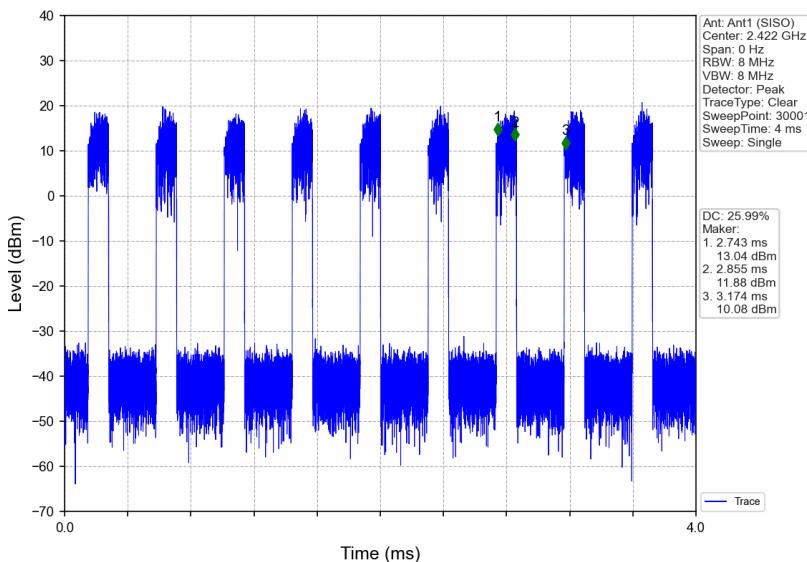
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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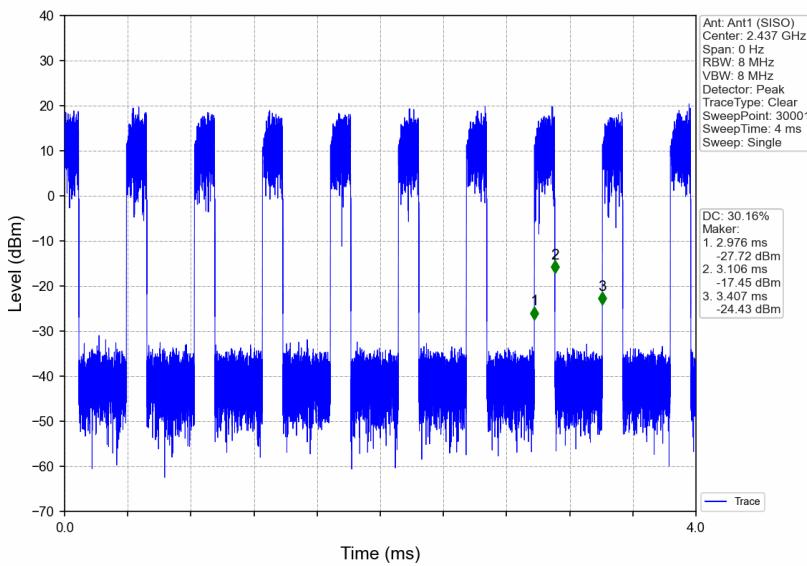
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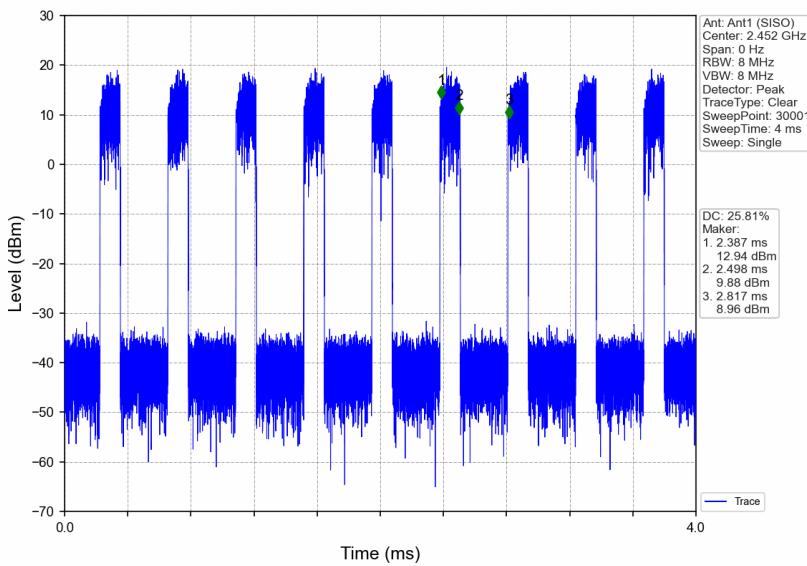
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	11.699		Pass
		2437	1	11.724		Pass
		2462	1	11.825		Pass
802.11g	SISO	2412	1	17.732		Pass
		2437	1	17.961		Pass
		2462	1	17.590		Pass
802.11n (HT20)	SISO	2412	1	18.623		Pass
		2437	1	18.841		Pass
		2462	1	18.628		Pass
802.11n (HT40)	SISO	2422	1	36.658		Pass
		2437	1	36.654		Pass
		2452	1	36.668		Pass

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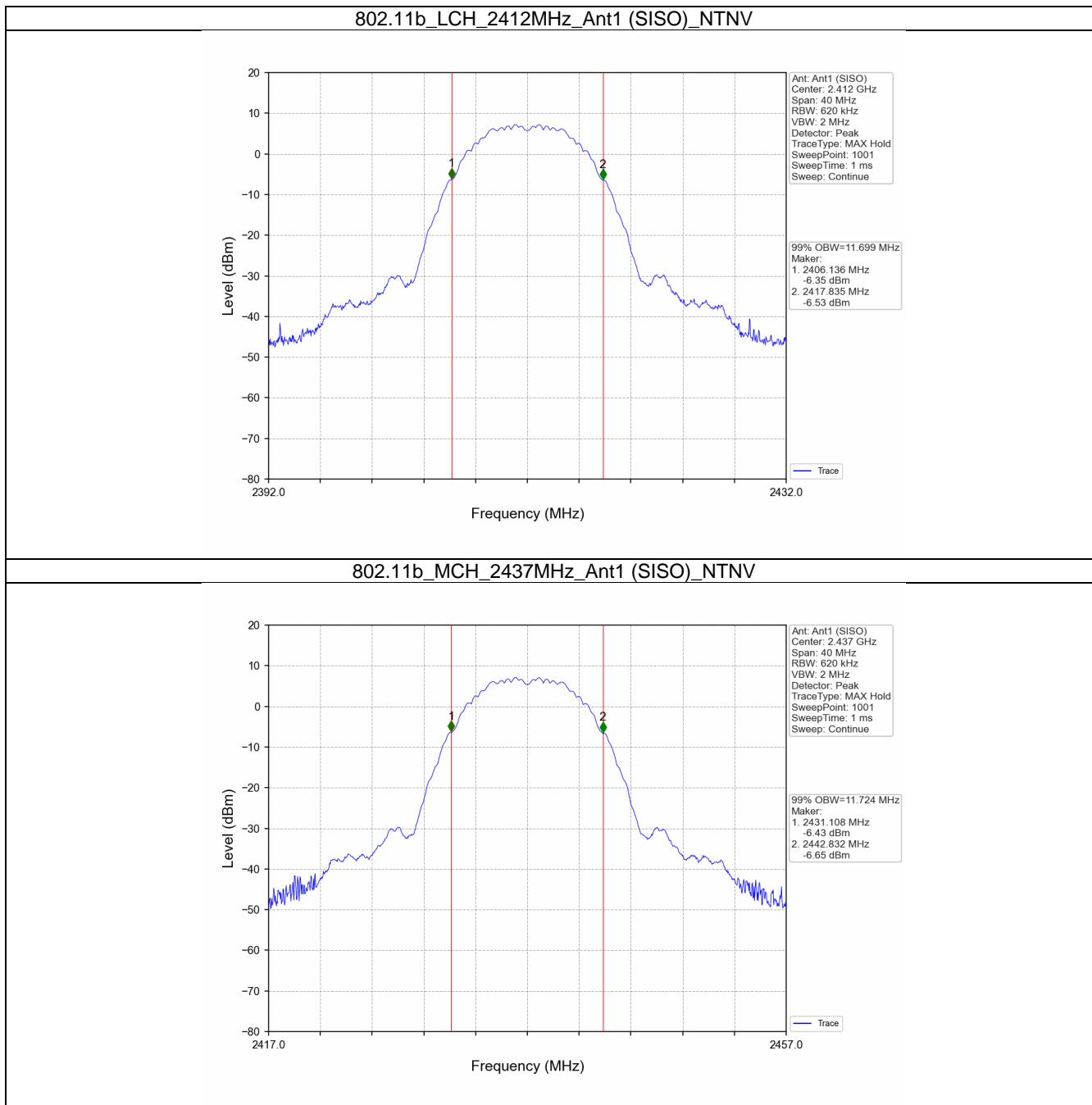


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2.1.2 Test Graph



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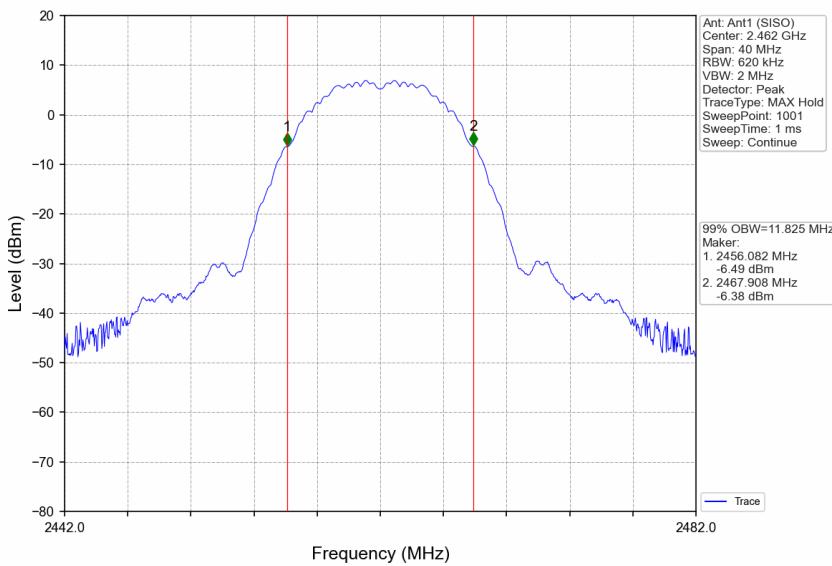


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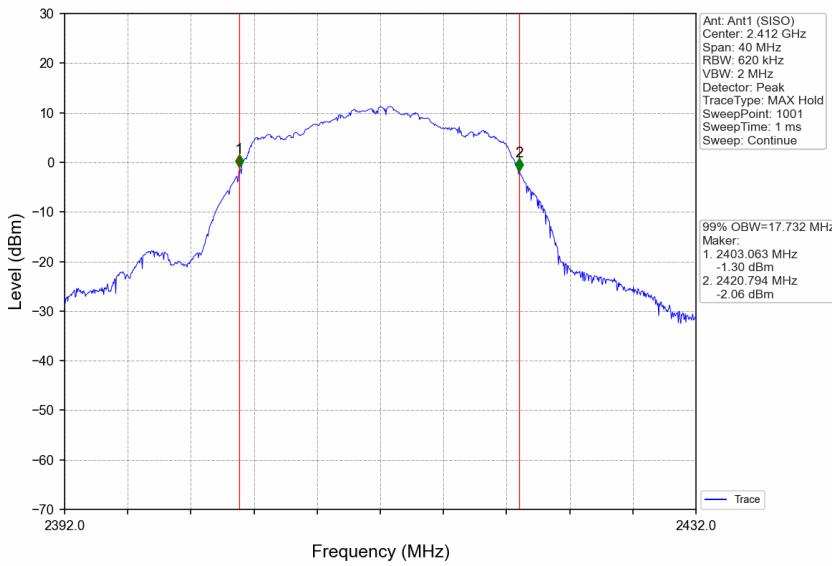
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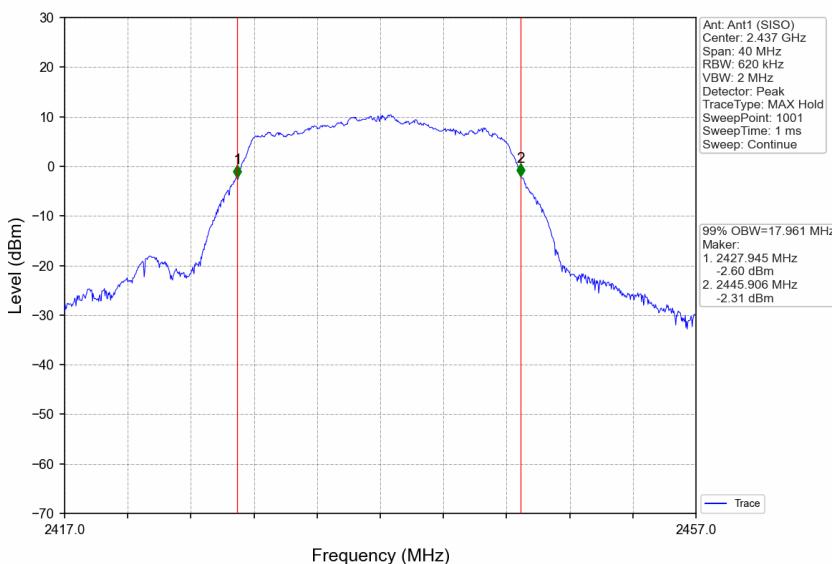


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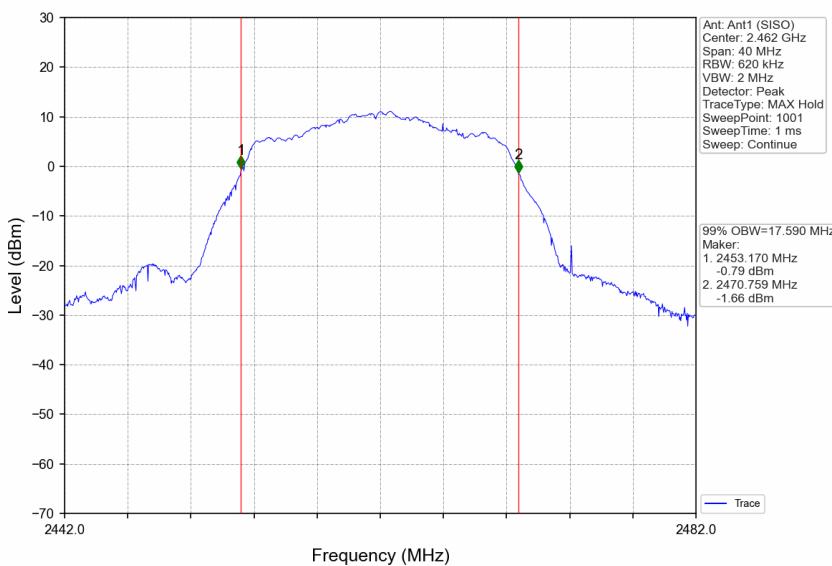
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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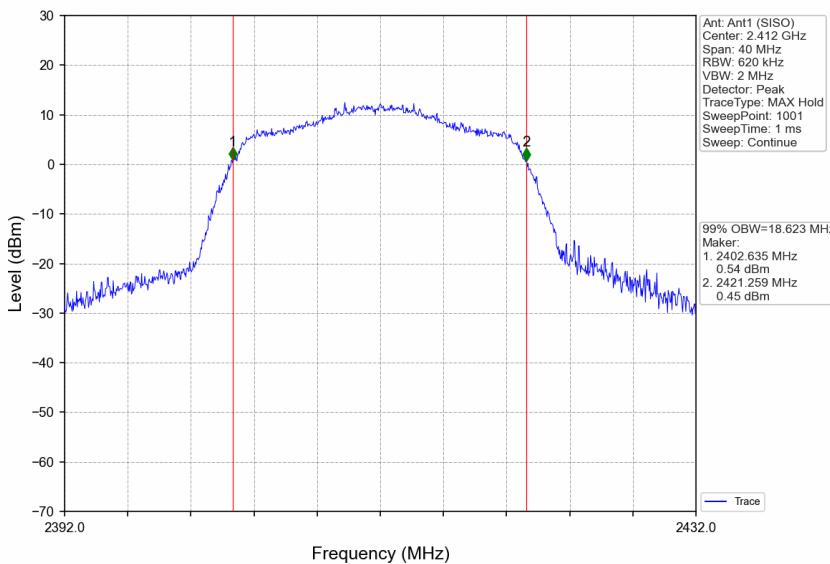


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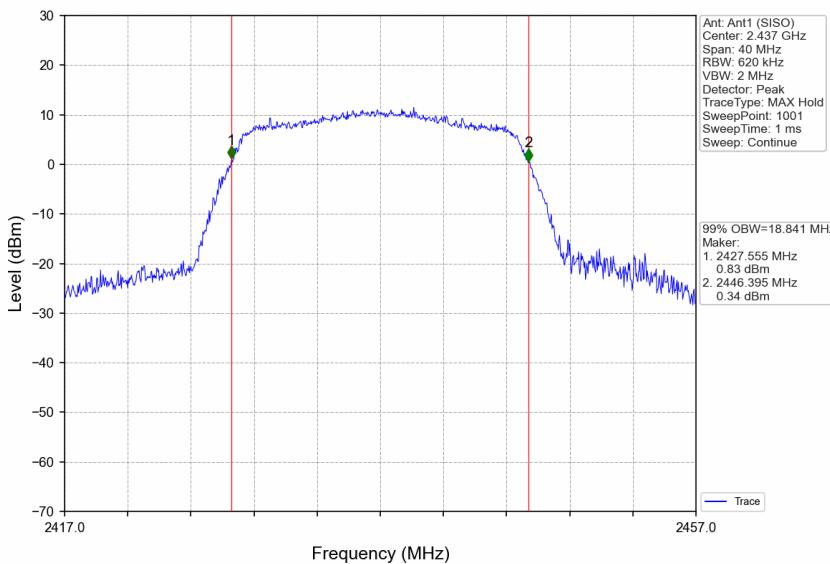
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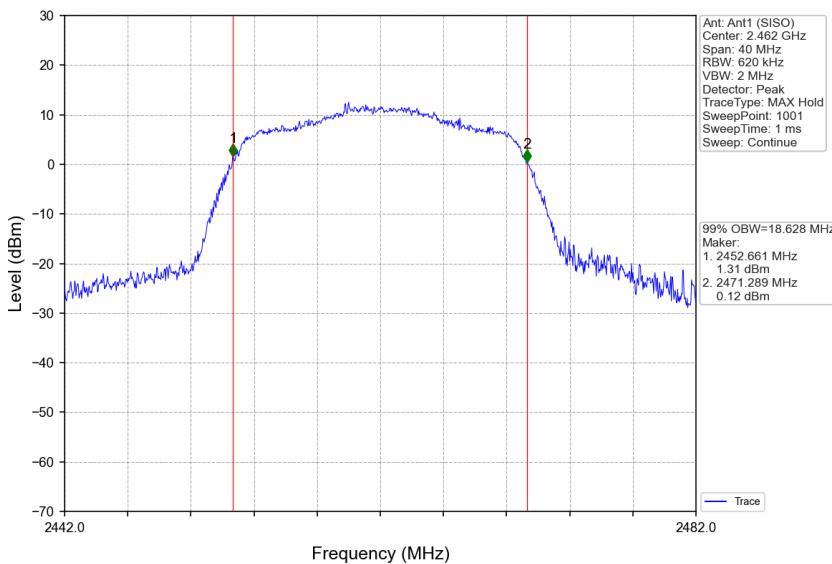


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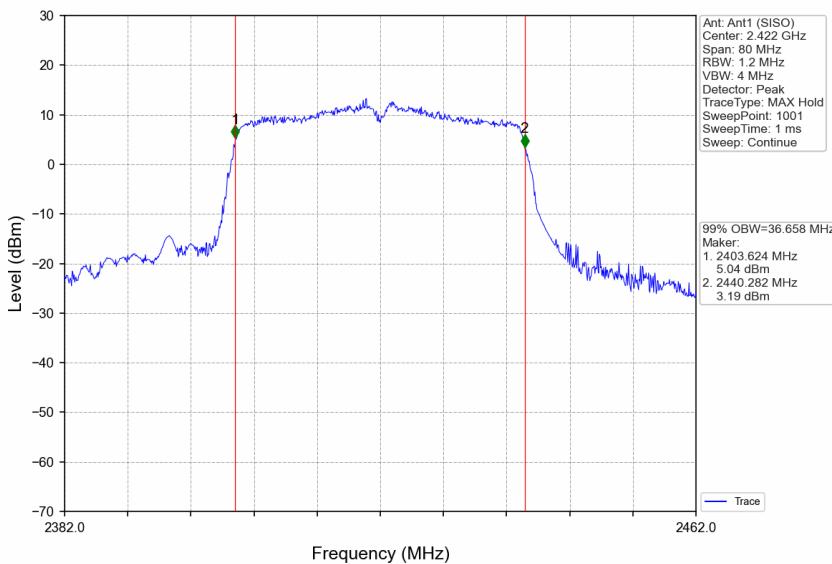
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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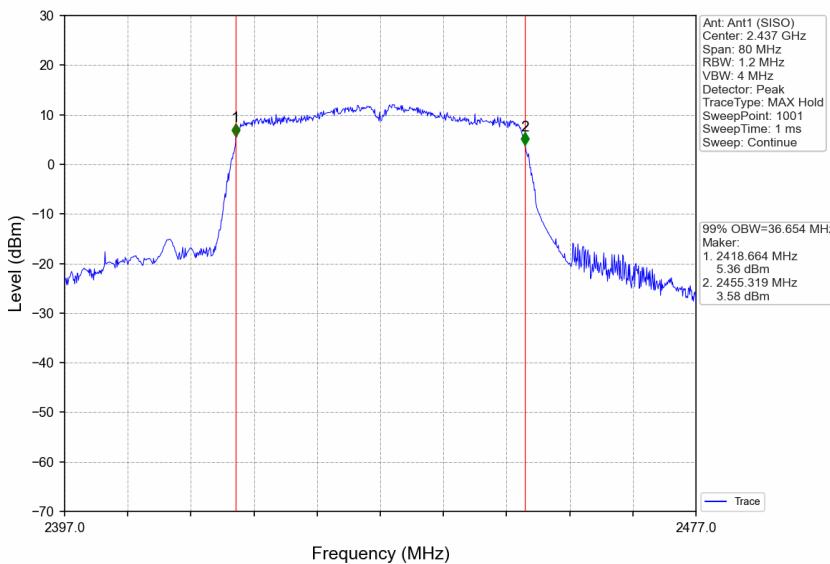
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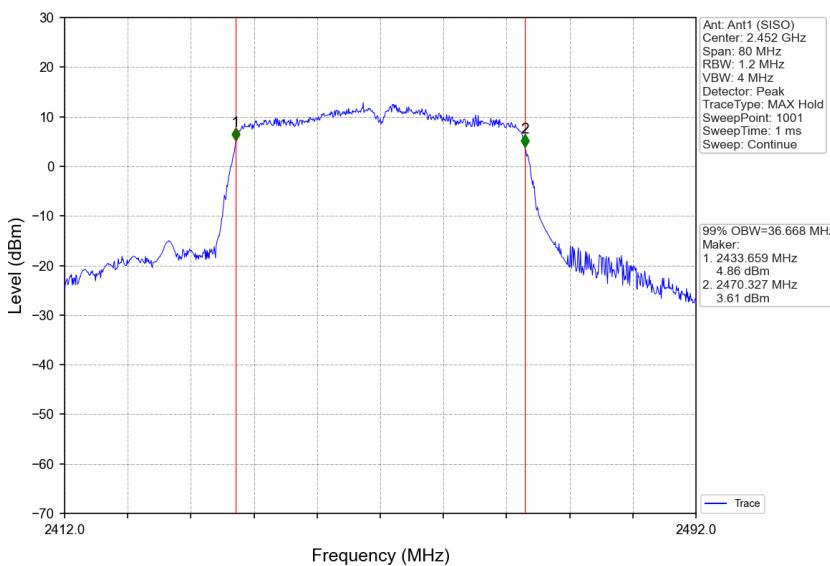
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.115	>=0.5	Pass
		2437	1	8.117	>=0.5	Pass
		2462	1	8.588	>=0.5	Pass
802.11g	SISO	2412	1	15.214	>=0.5	Pass
		2437	1	16.343	>=0.5	Pass
		2462	1	15.511	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.217	>=0.5	Pass
		2437	1	17.540	>=0.5	Pass
		2462	1	15.211	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.016	>=0.5	Pass
		2437	1	36.360	>=0.5	Pass
		2452	1	36.414	>=0.5	Pass

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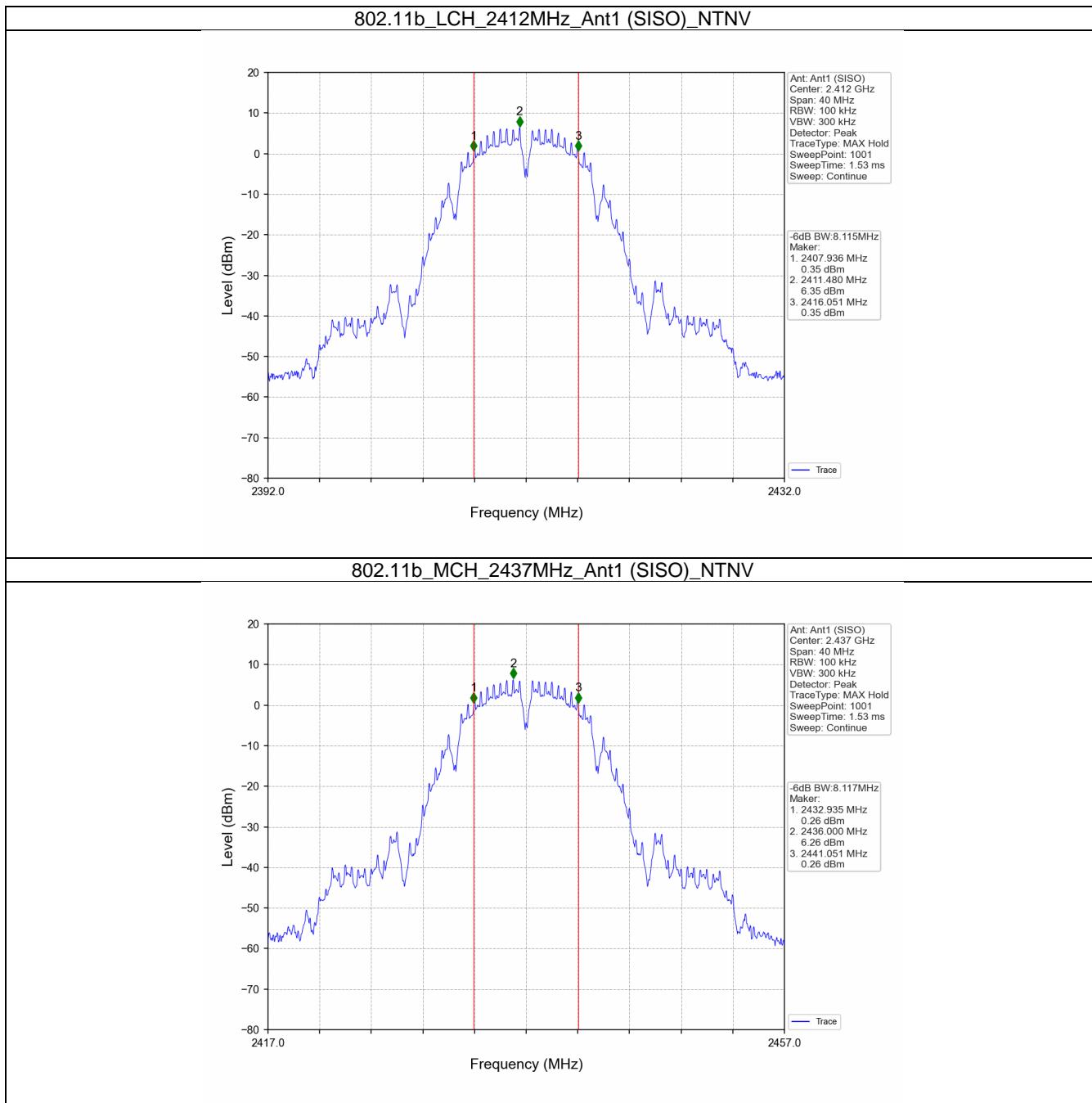


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2.2.2 Test Graph



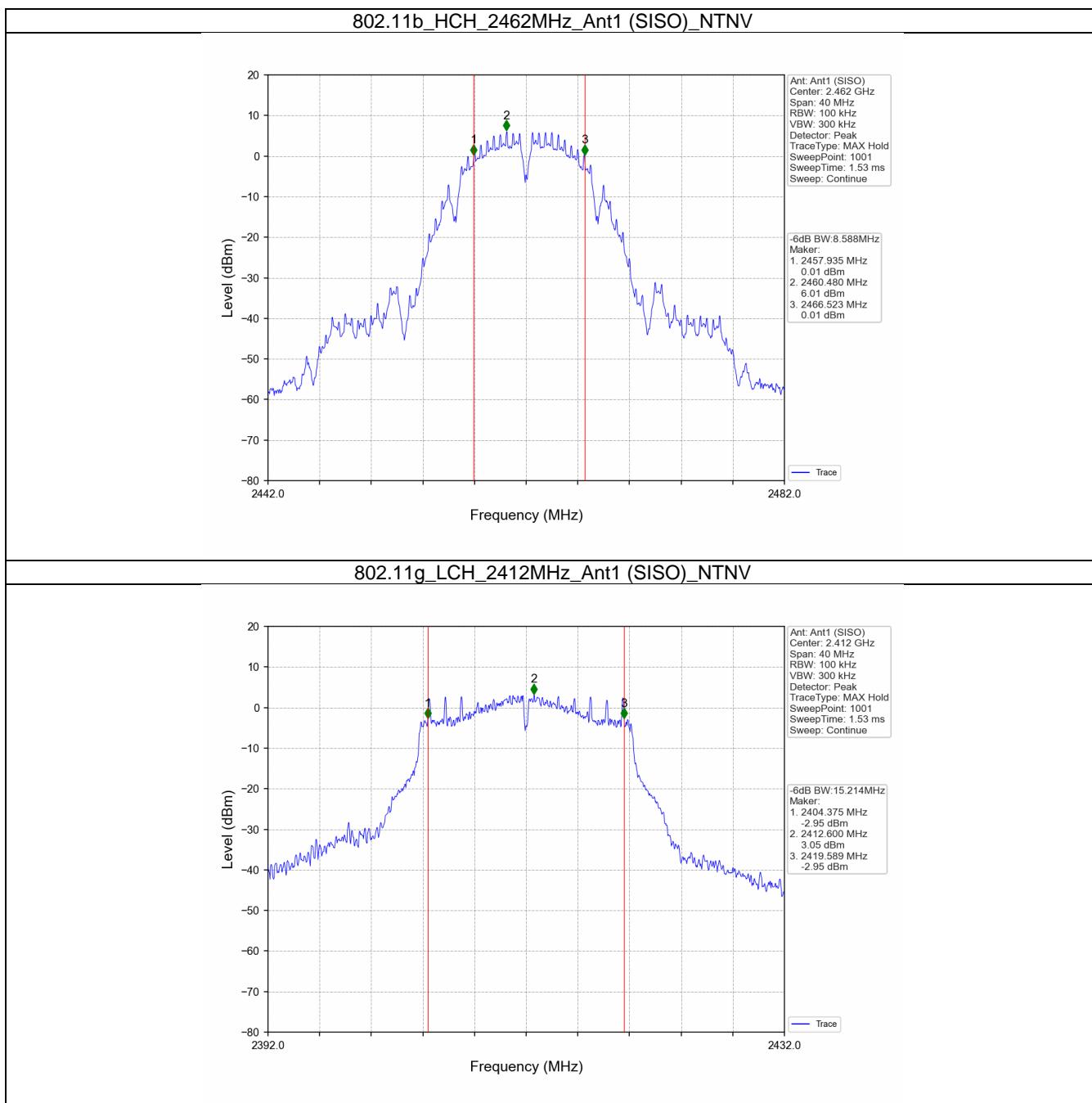
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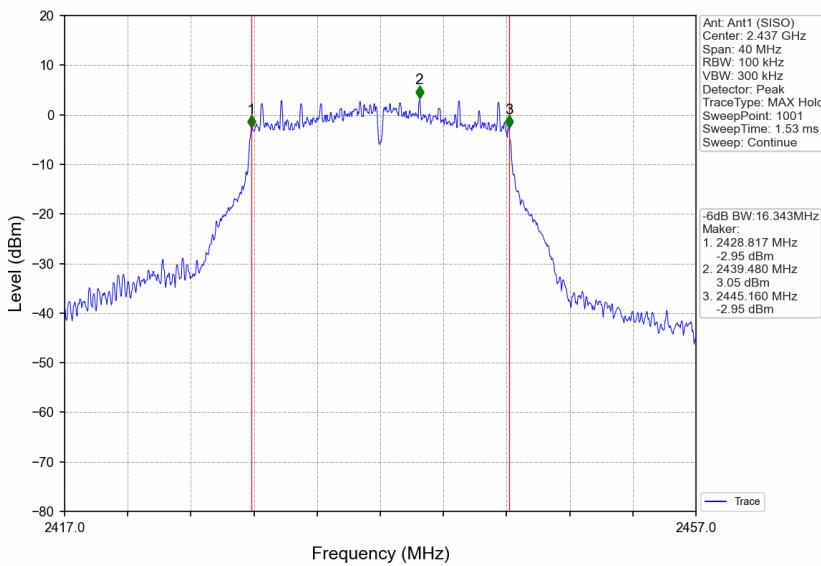


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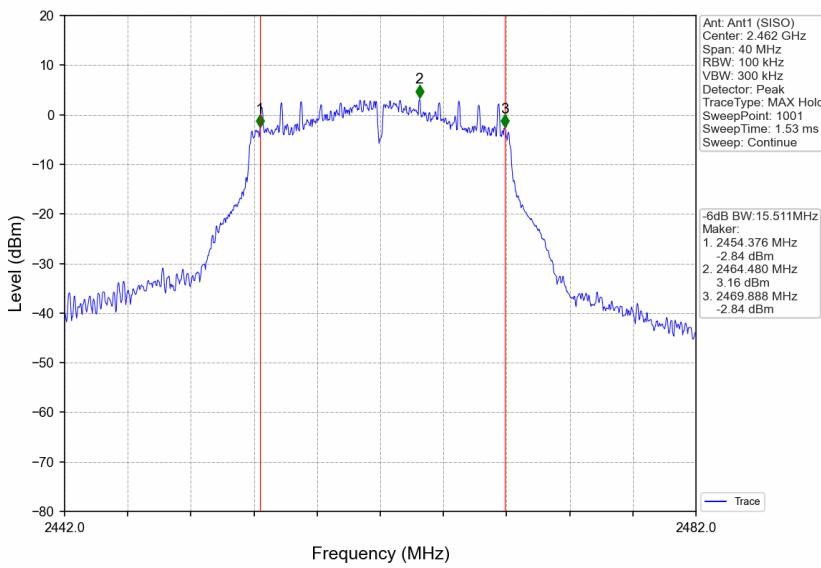
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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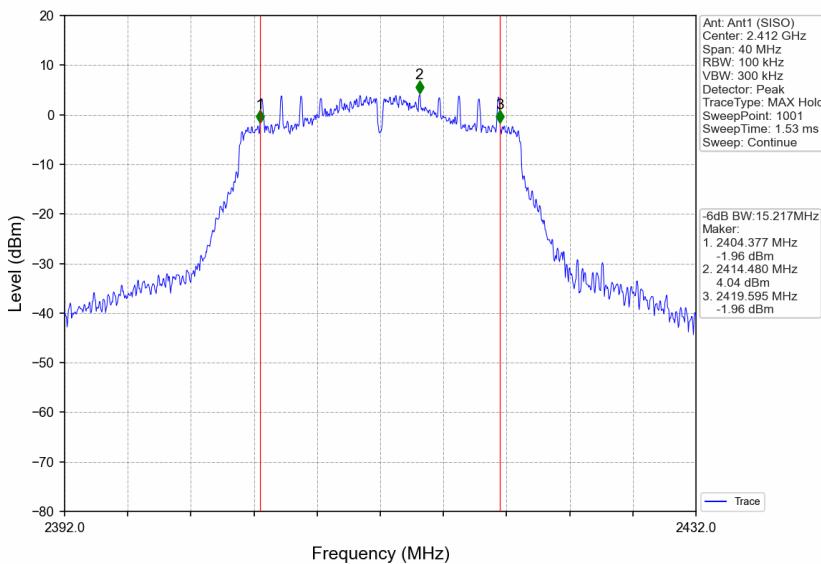


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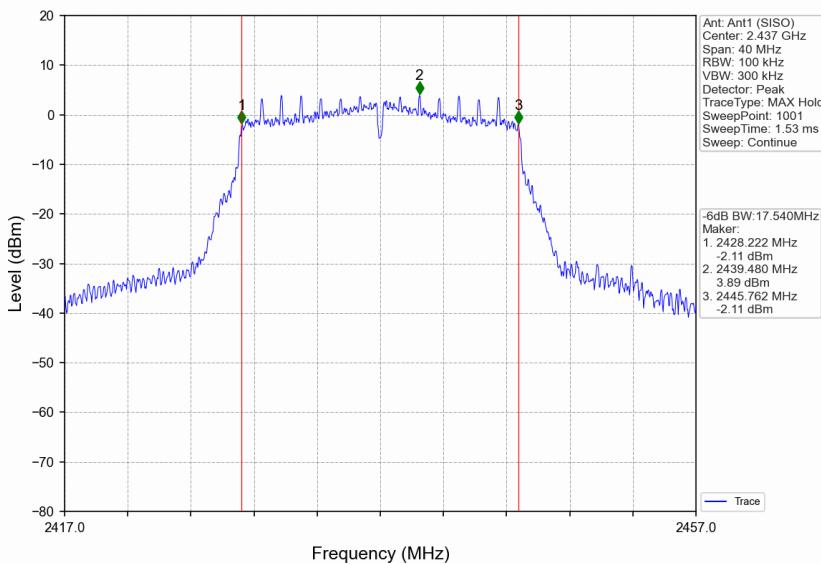
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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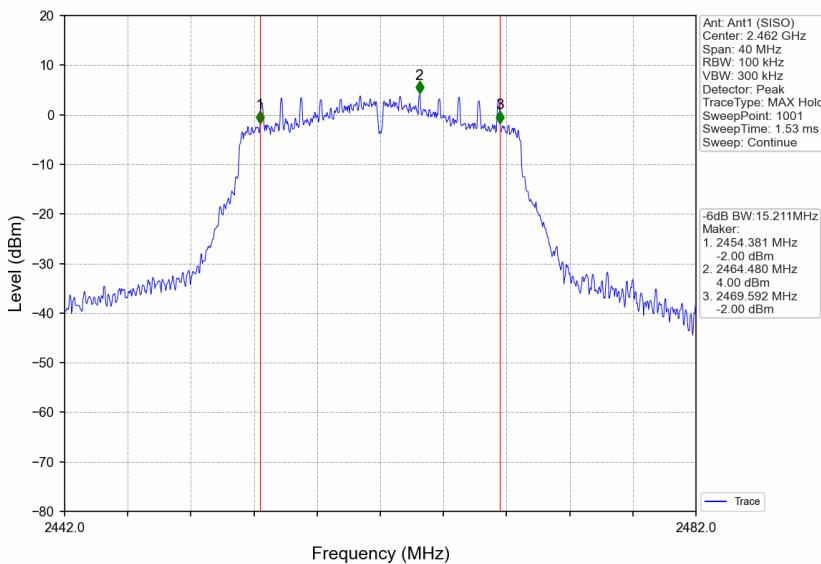
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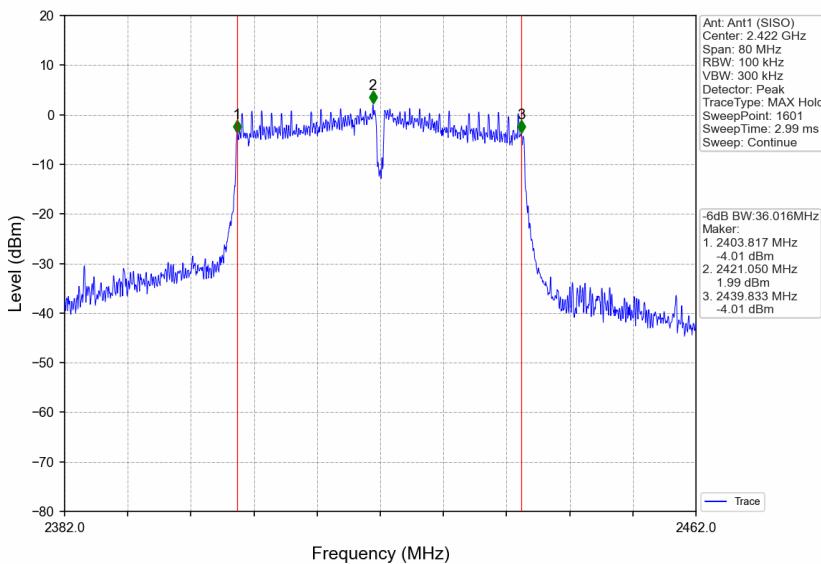
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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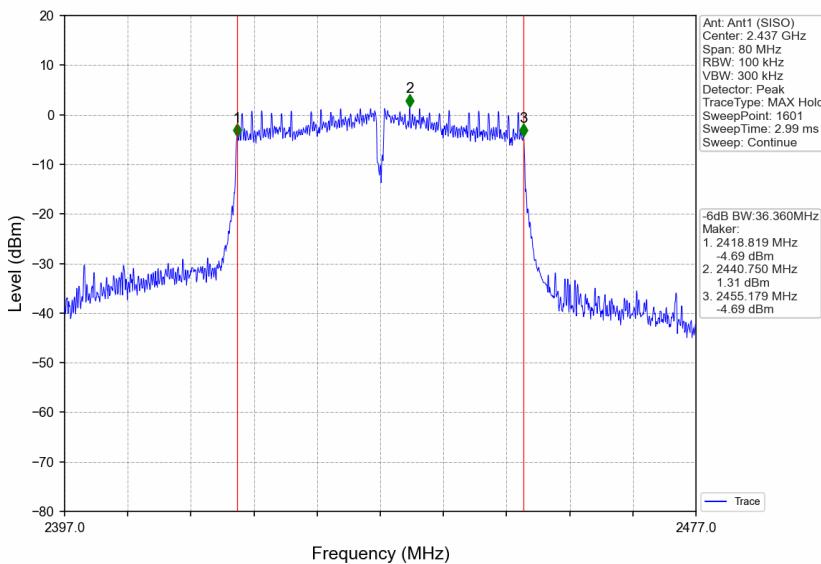
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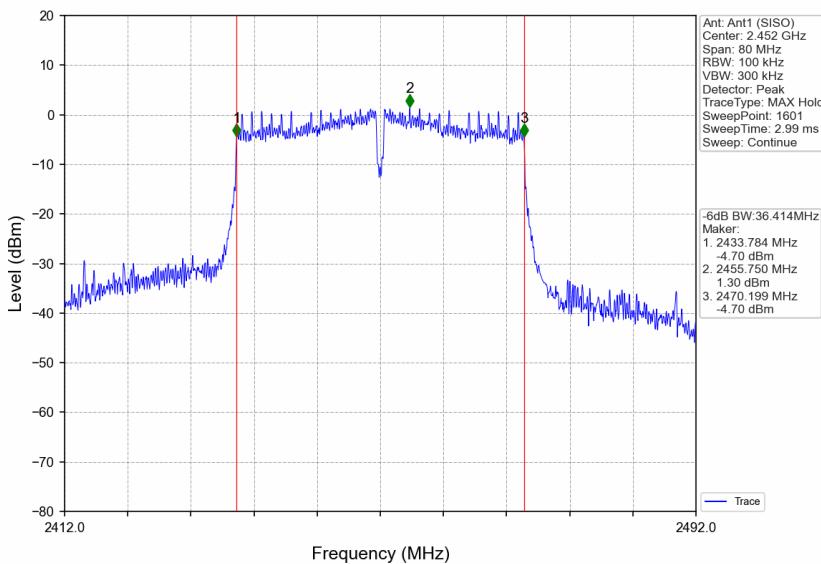
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3. Maximum Conducted Output Power

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	14.28	<=30	Pass
		2437	14.23	<=30	Pass
		2462	14.14	<=30	Pass
802.11g	SISO	2412	14.26	<=30	Pass
		2437	14.29	<=30	Pass
		2462	14.37	<=30	Pass
802.11n (HT20)	SISO	2412	14.56	<=30	Pass
		2437	14.73	<=30	Pass
		2462	14.69	<=30	Pass
802.11n (HT40)	SISO	2422	14.34	<=30	Pass
		2437	14.21	<=30	Pass
		2452	14.26	<=30	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;

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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	-7.48	<=8	Pass
		2437	-8.26	<=8	Pass
		2462	-8.50	<=8	Pass
802.11g	SISO	2412	-9.22	<=8	Pass
		2437	-9.80	<=8	Pass
		2462	-9.08	<=8	Pass
802.11n (HT20)	SISO	2412	-7.61	<=8	Pass
		2437	-9.57	<=8	Pass
		2462	-9.53	<=8	Pass
802.11n (HT40)	SISO	2422	-15.50	<=8	Pass
		2437	-14.15	<=8	Pass
		2452	-14.74	<=8	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;

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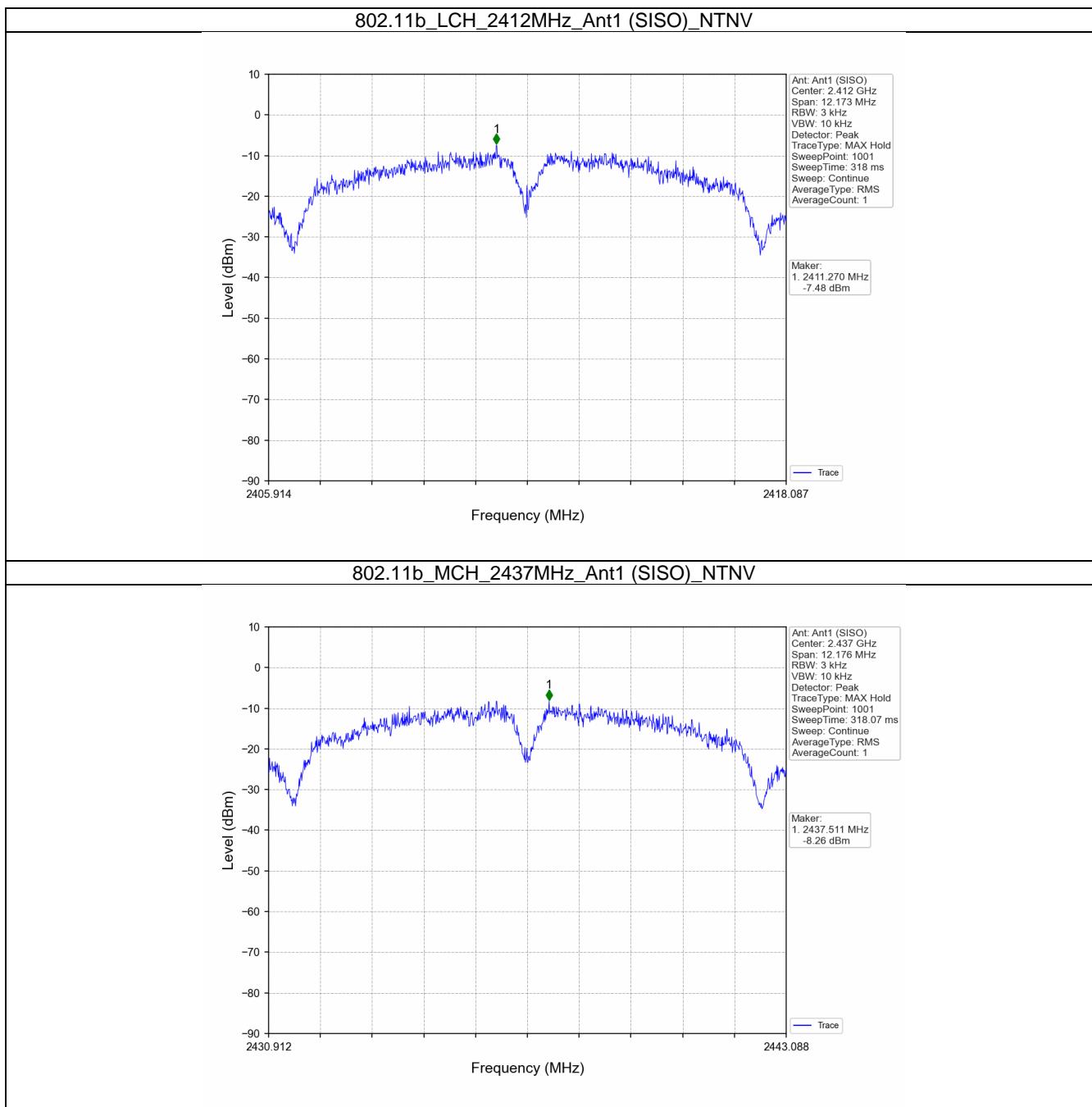


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4.1.2 Test Graph



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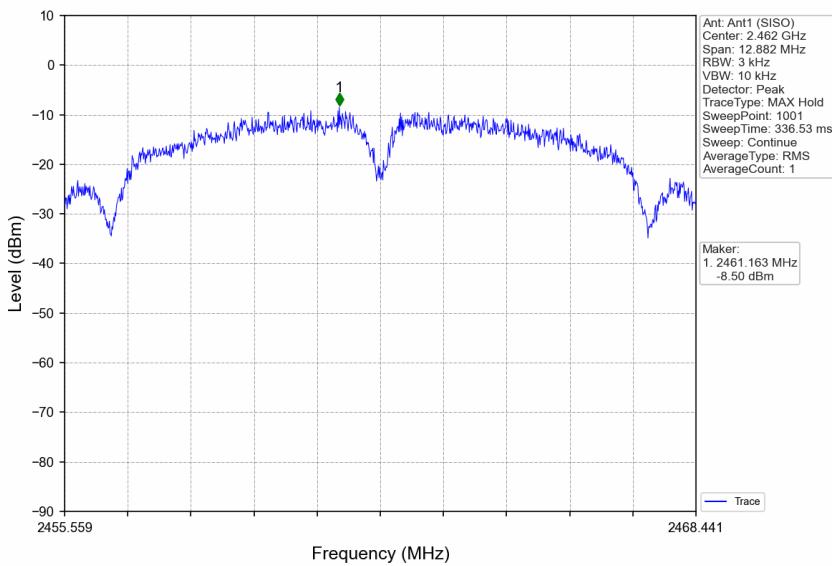


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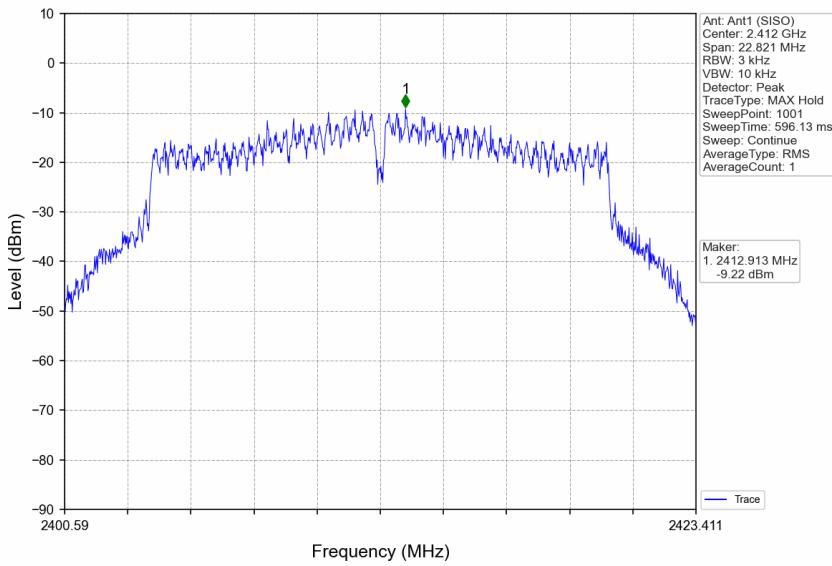
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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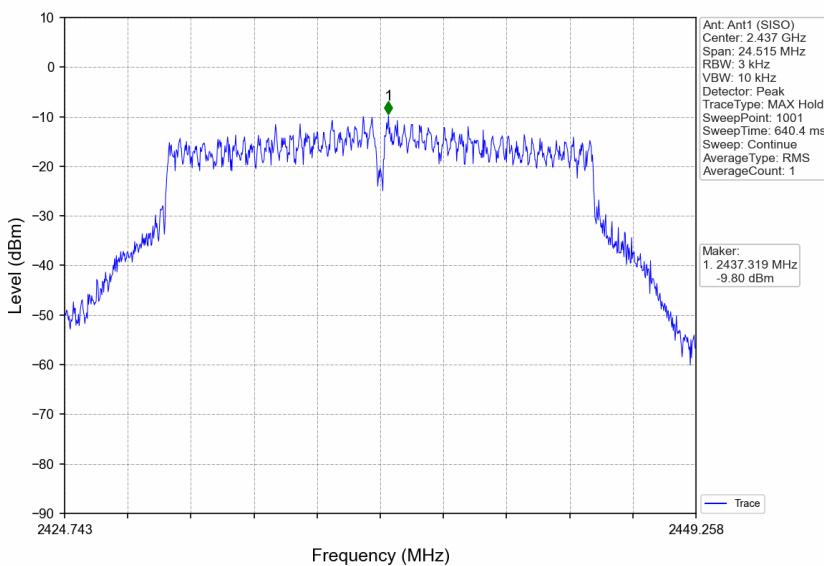


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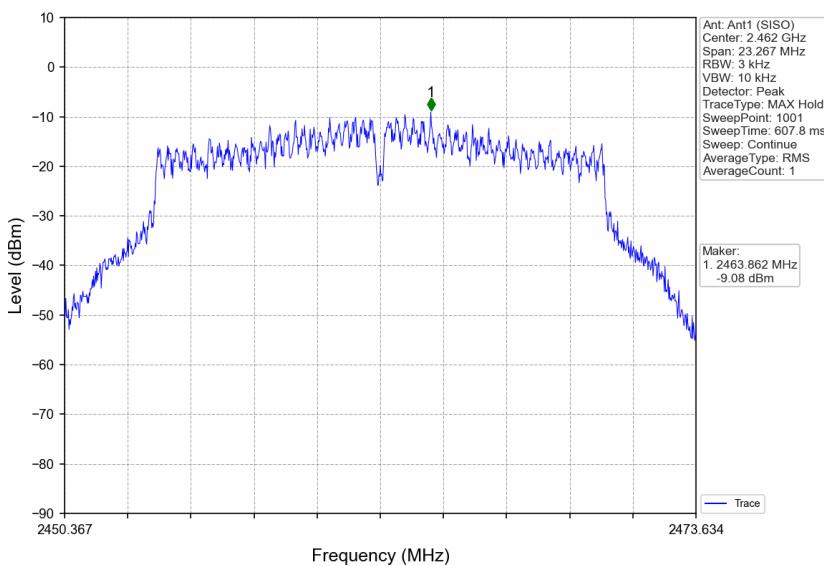
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

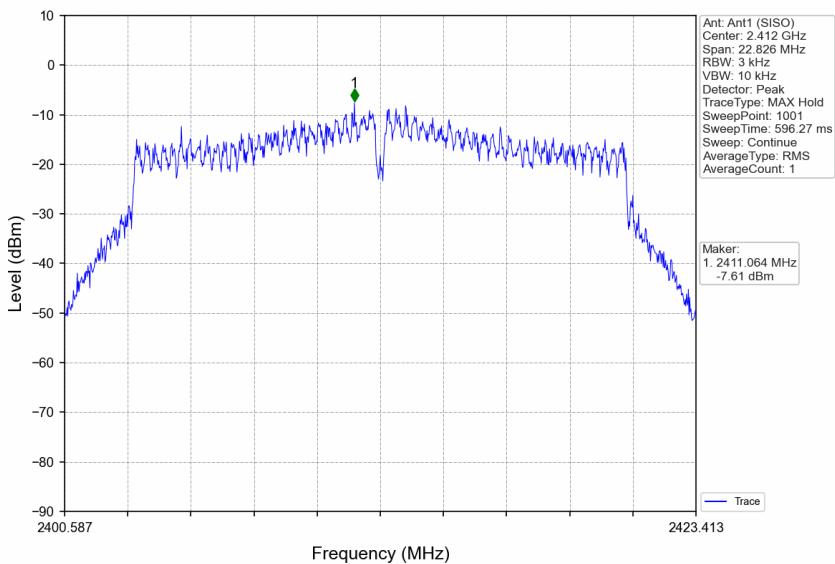


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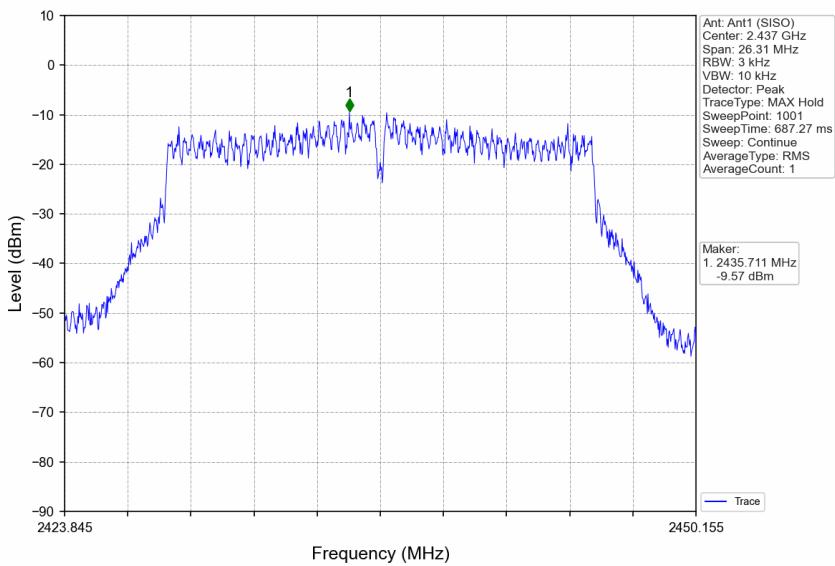
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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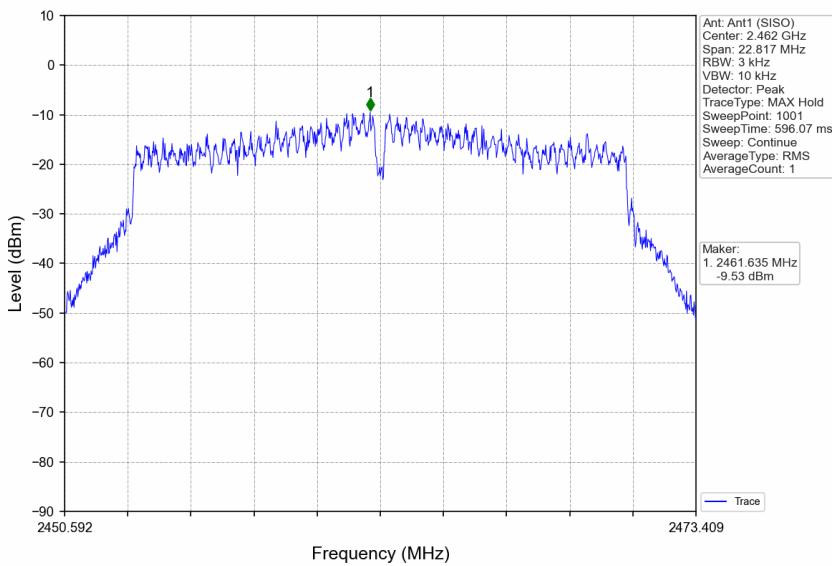


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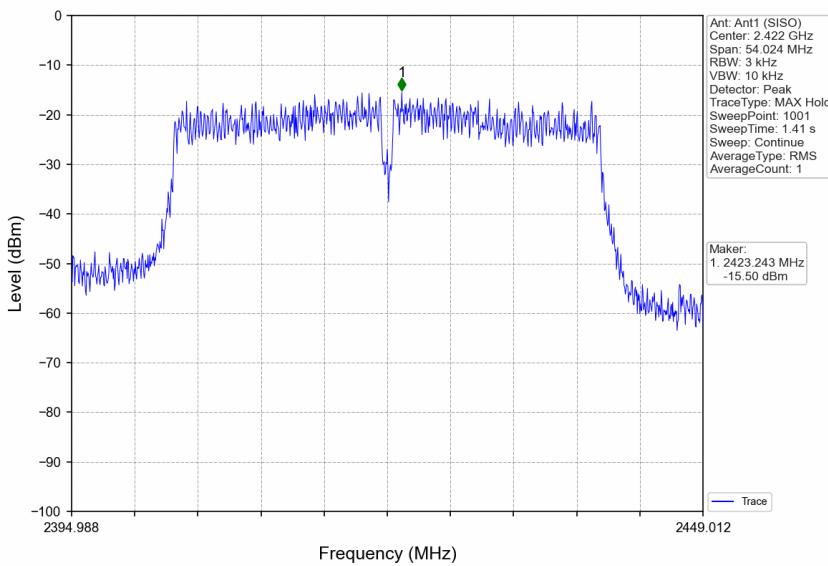
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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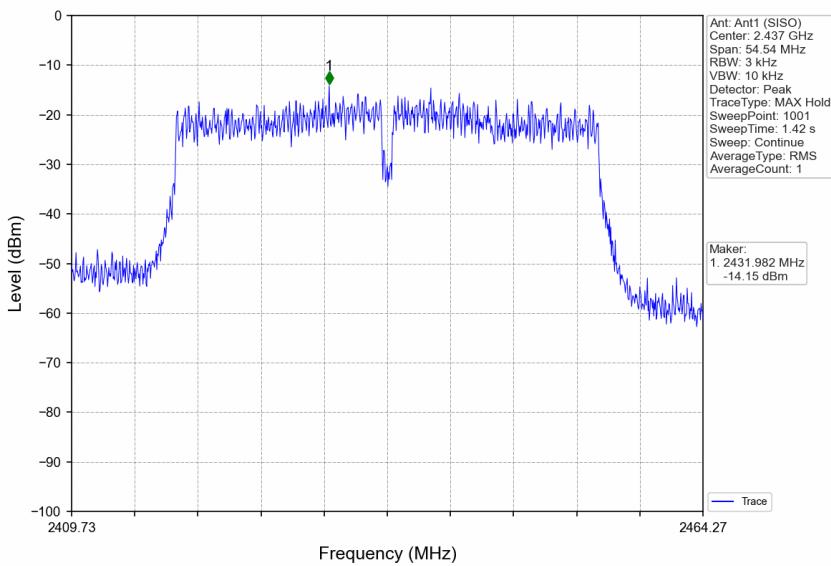
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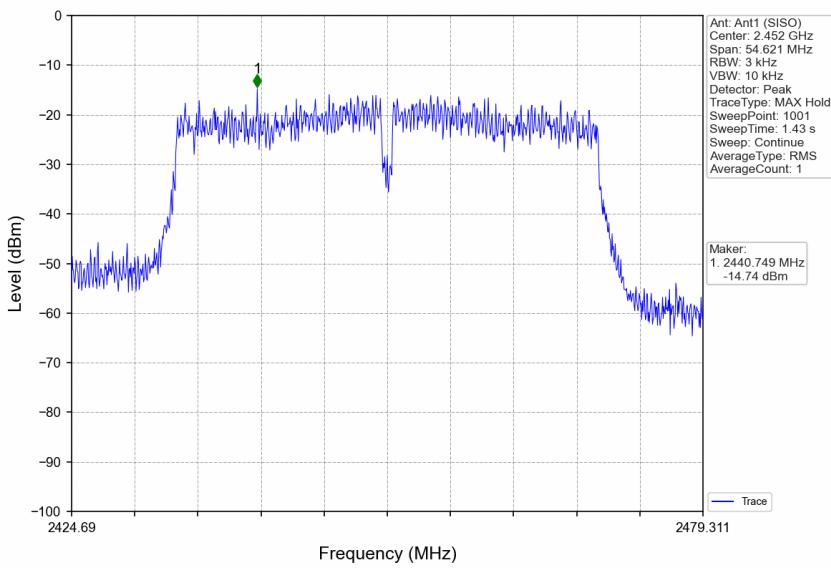
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	6.33
		2437	1	6.14
		2462	1	5.98
802.11g	SISO	2412	1	3.07
		2437	1	2.81
		2462	1	3.14
802.11n (HT20)	SISO	2412	1	3.79
		2437	1	3.89
		2462	1	3.76
802.11n (HT40)	SISO	2422	1	1.24
		2437	1	1.22
		2452	1	1.25

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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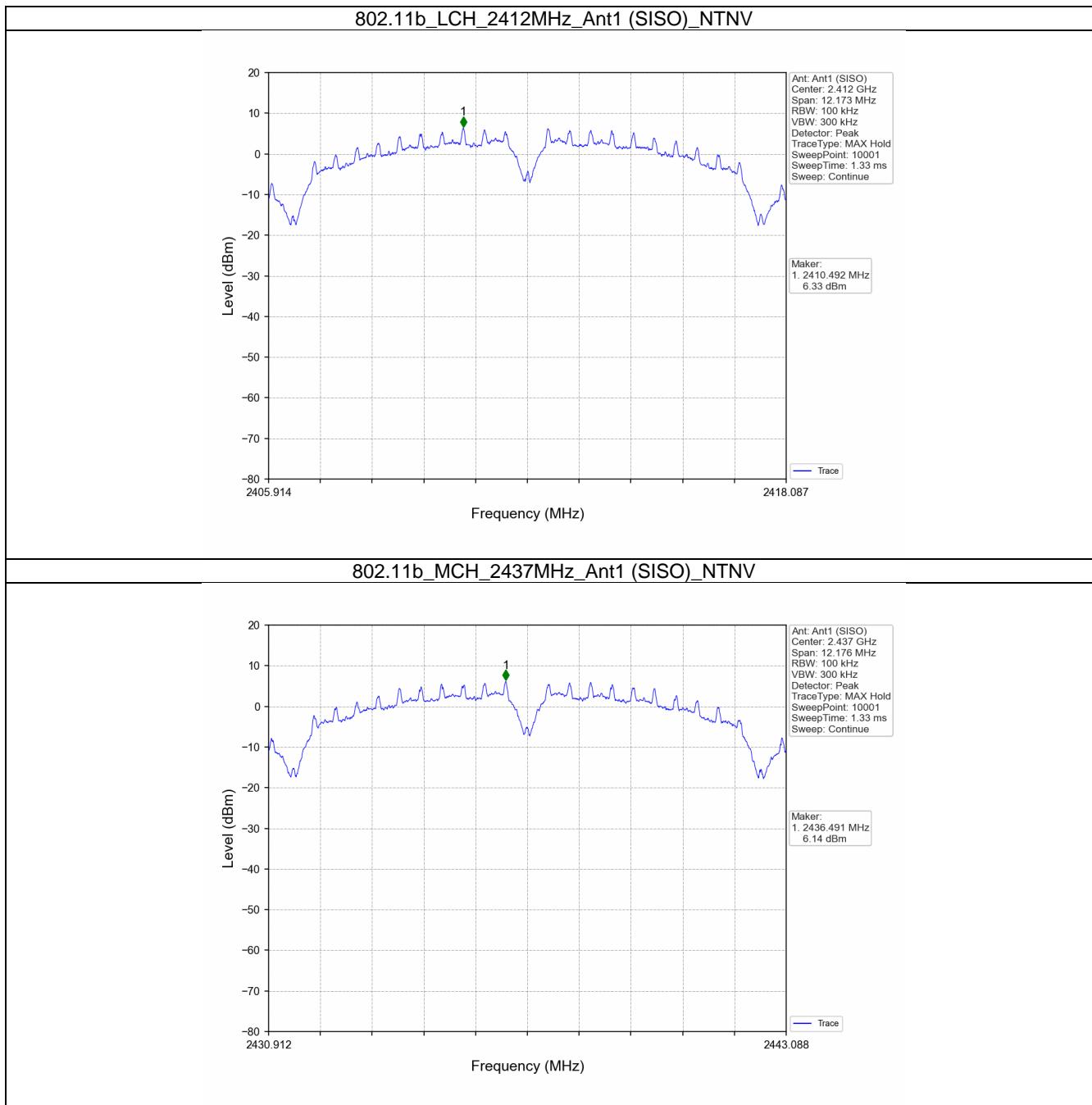


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5.1.2 Test Graph

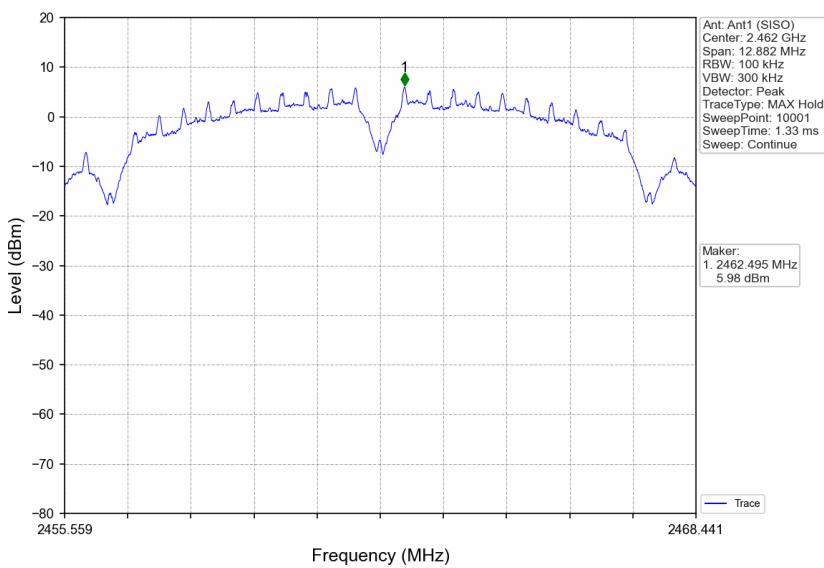


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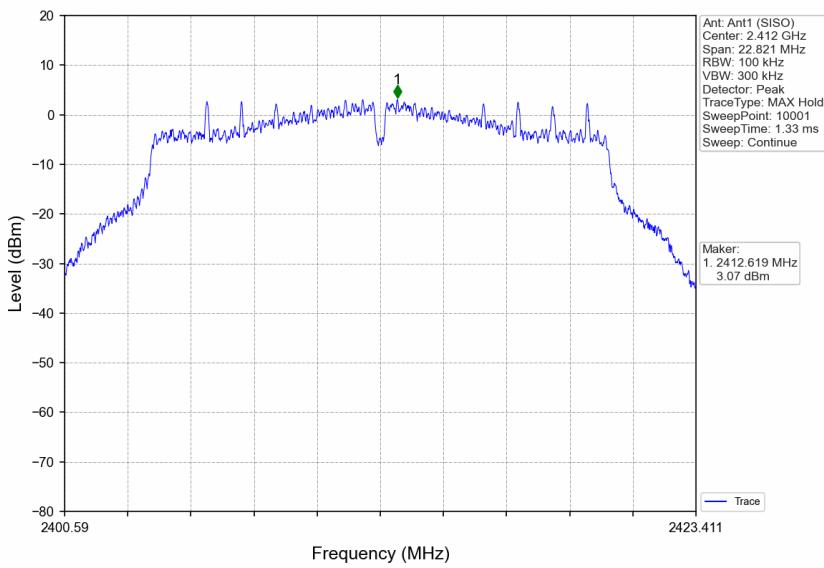
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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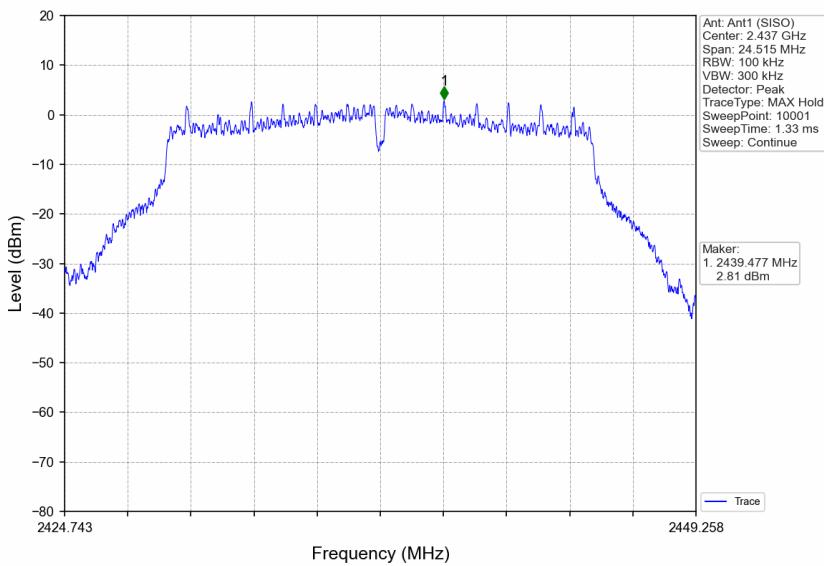


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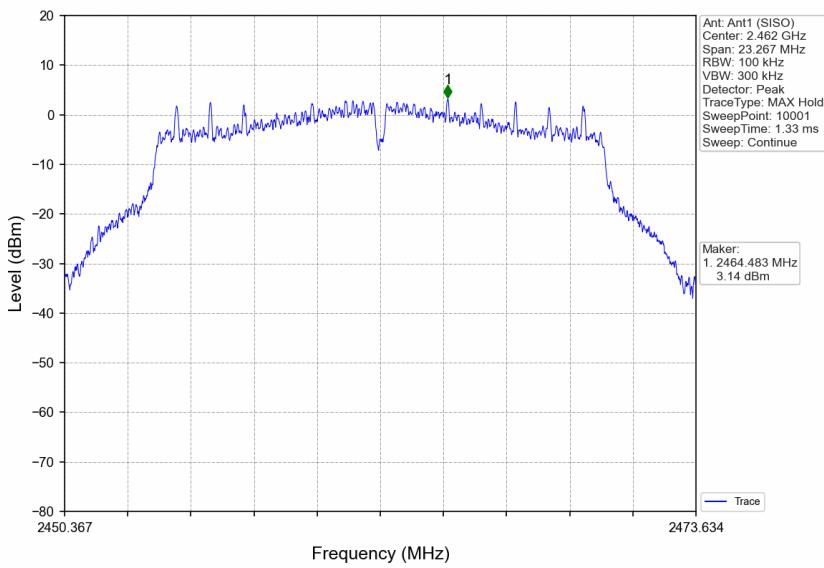
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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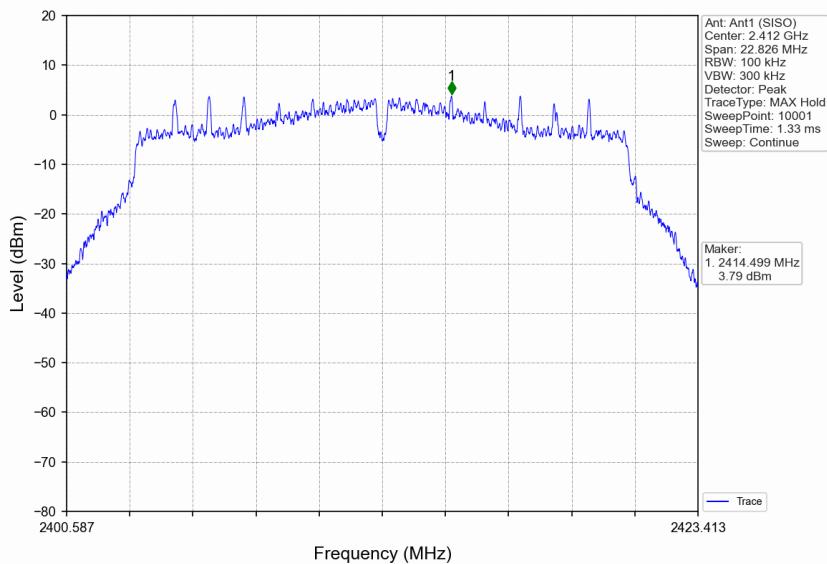


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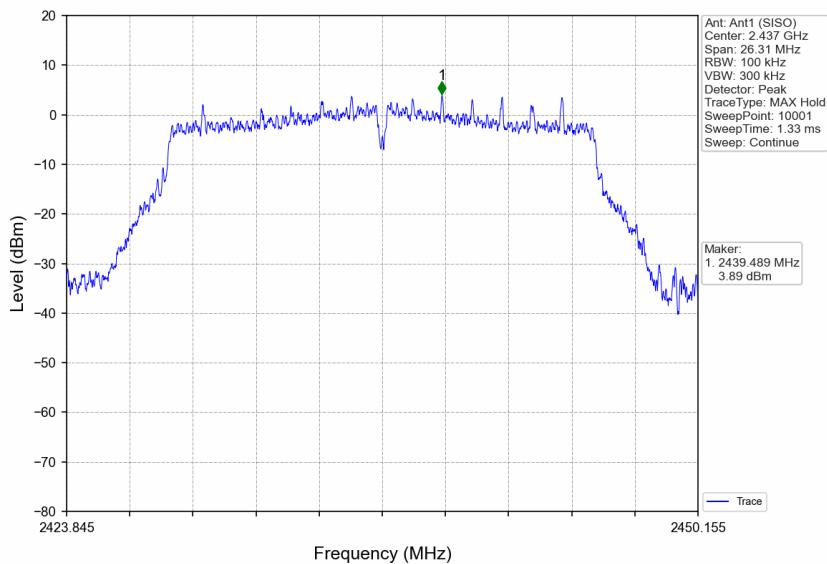
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

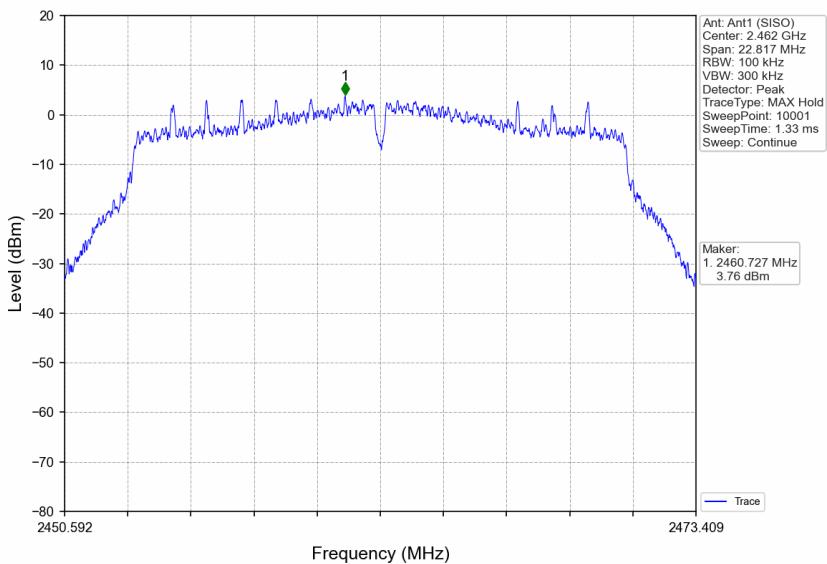


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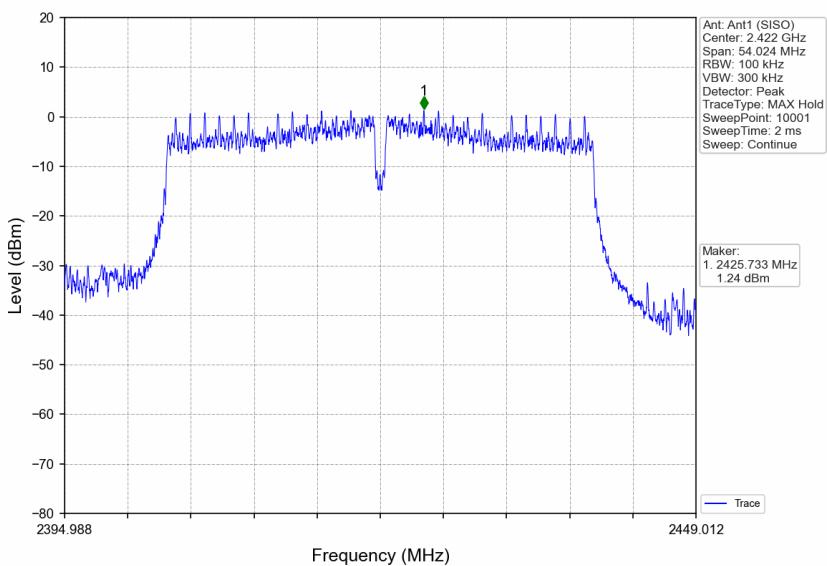
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

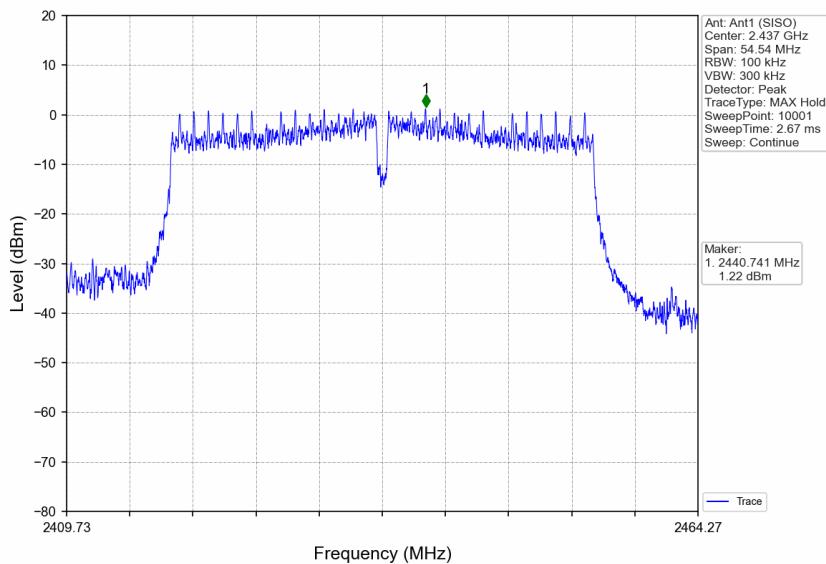


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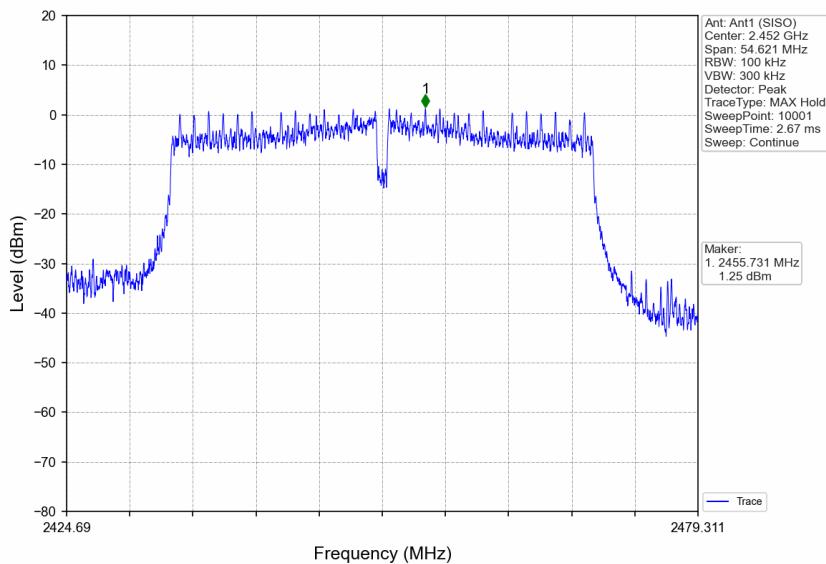
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	6.33	-23.67	Pass
		2437	1	6.33	-23.67	Pass
		2462	1	6.33	-23.67	Pass
802.11g	SISO	2412	1	3.14	-26.86	Pass
		2437	1	3.14	-26.86	Pass
		2462	1	3.14	-26.86	Pass
802.11n (HT20)	SISO	2412	1	3.89	-26.11	Pass
		2437	1	3.89	-26.11	Pass
		2462	1	3.89	-26.11	Pass
802.11n (HT40)	SISO	2422	1	1.25	-28.75	Pass
		2437	1	1.25	-28.75	Pass
		2452	1	1.25	-28.75	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.

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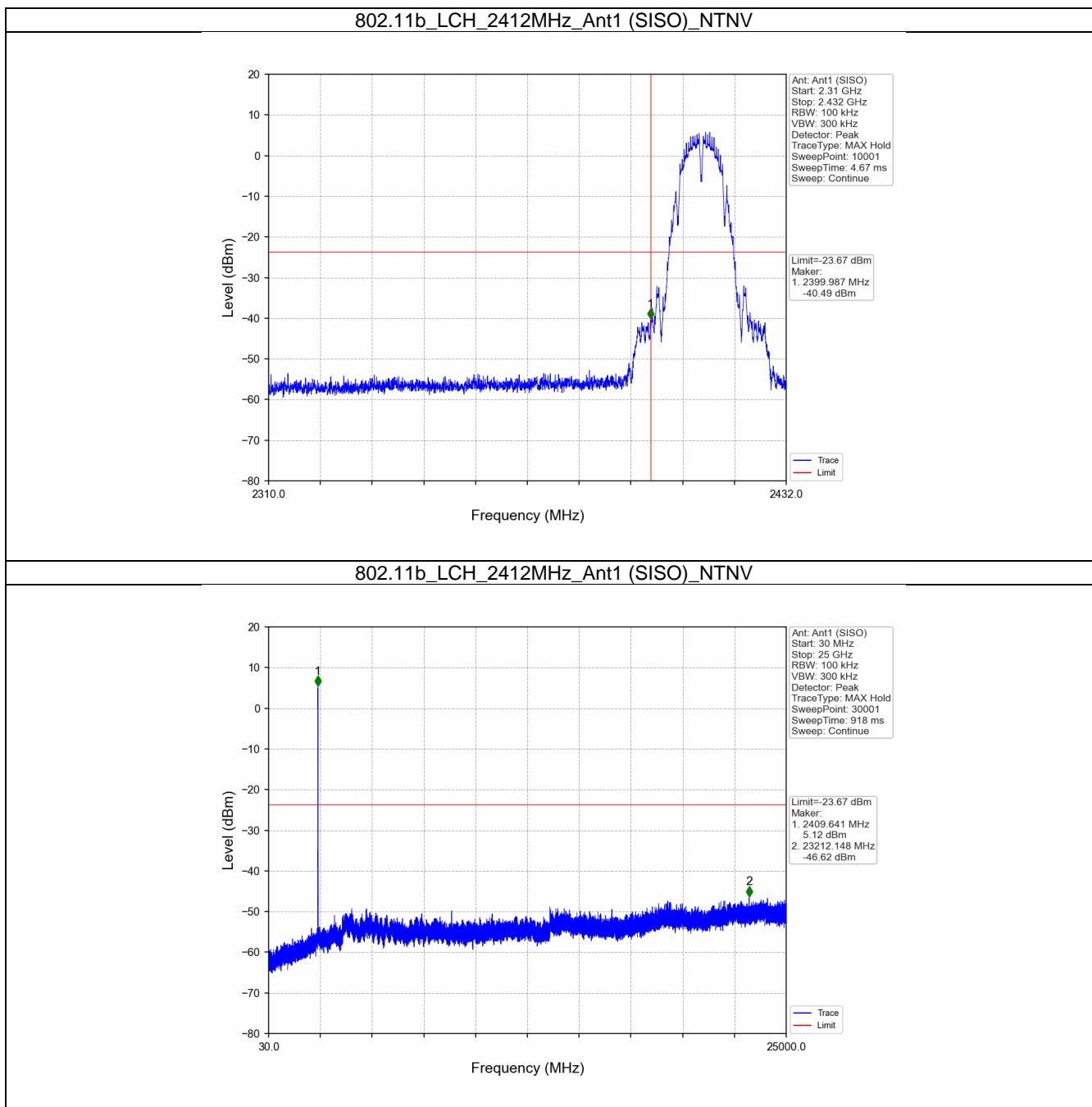


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5.2.2 Test Graph

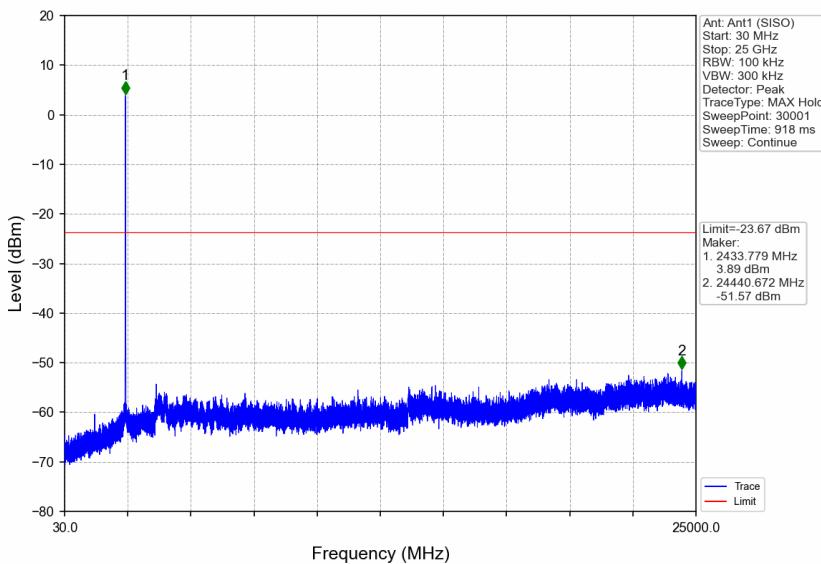


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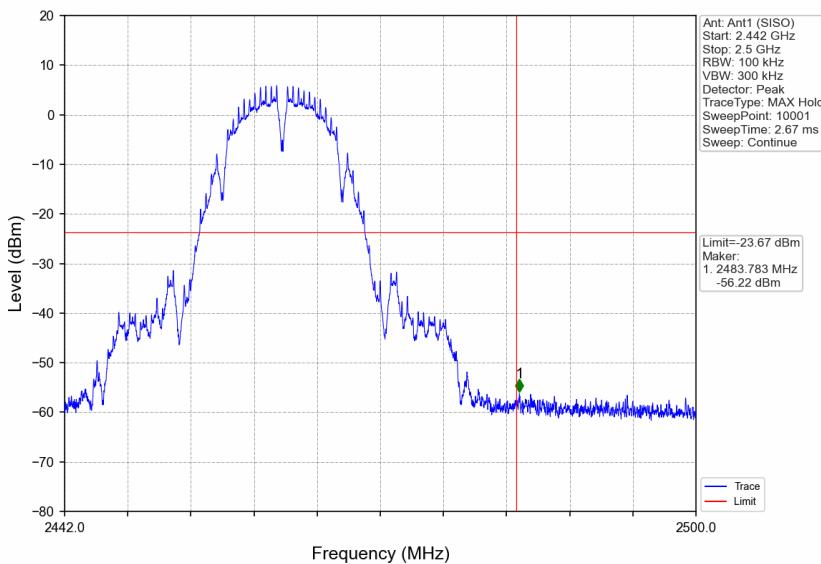
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

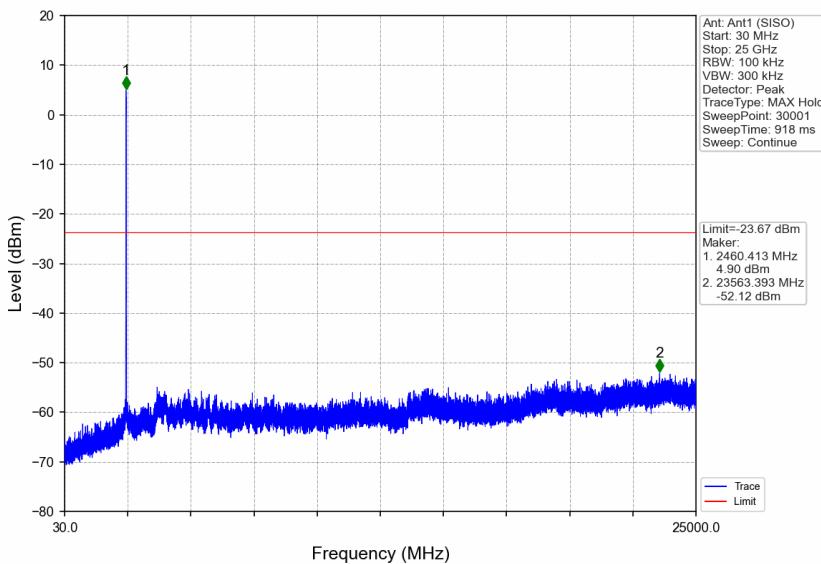


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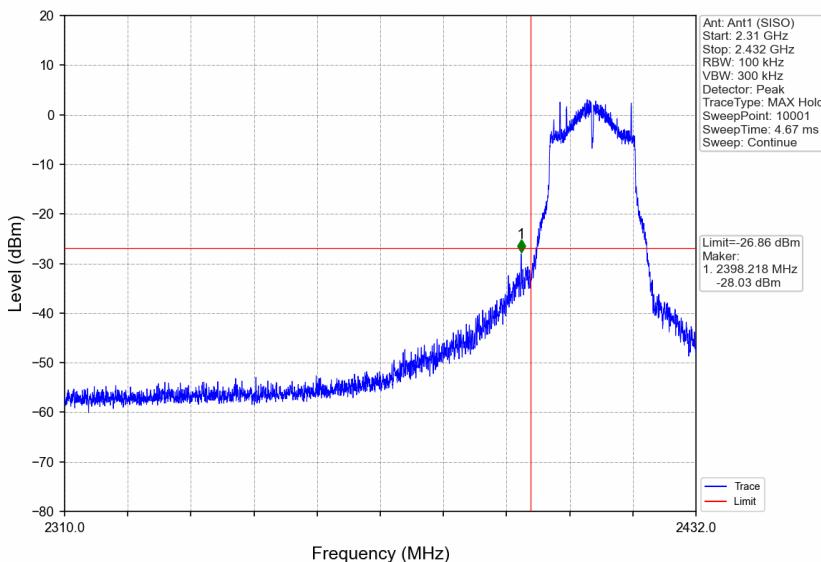
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

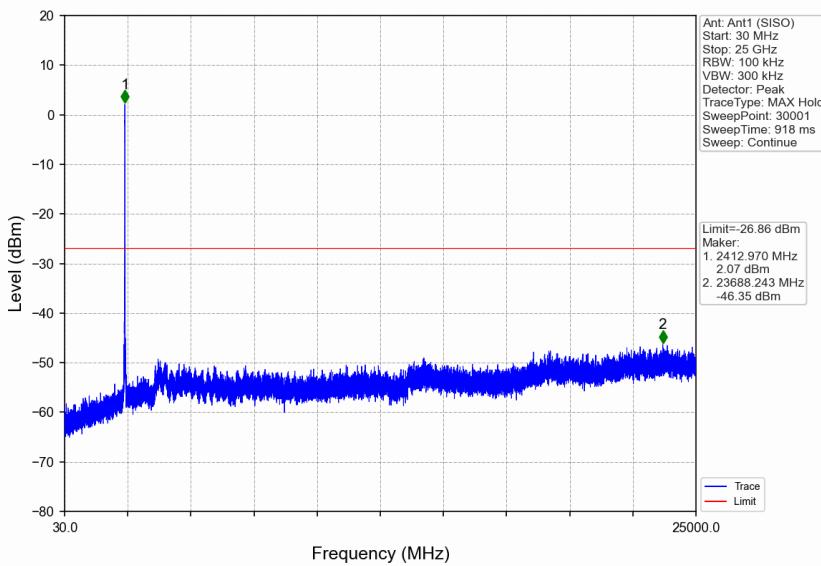


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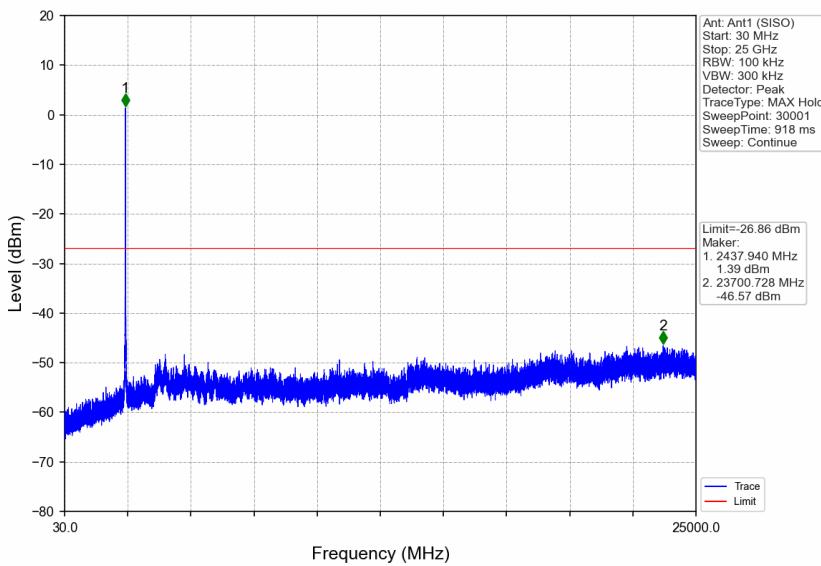
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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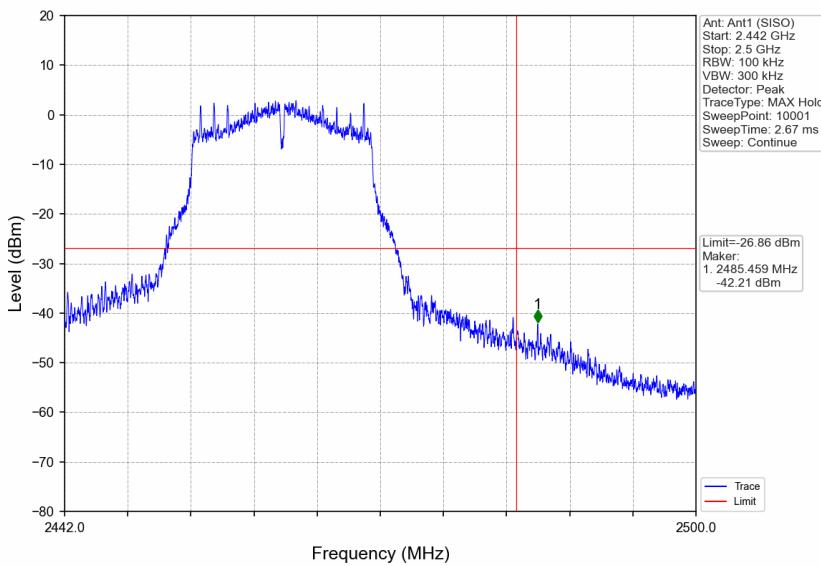
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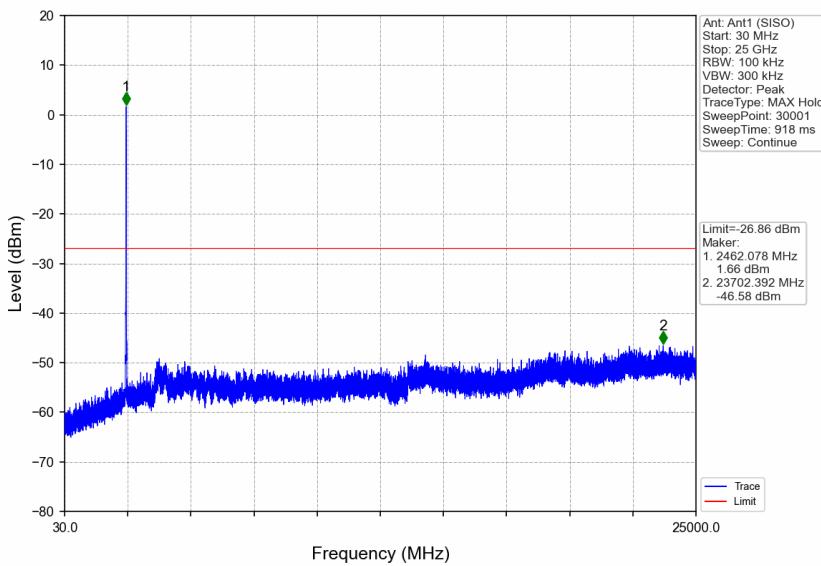
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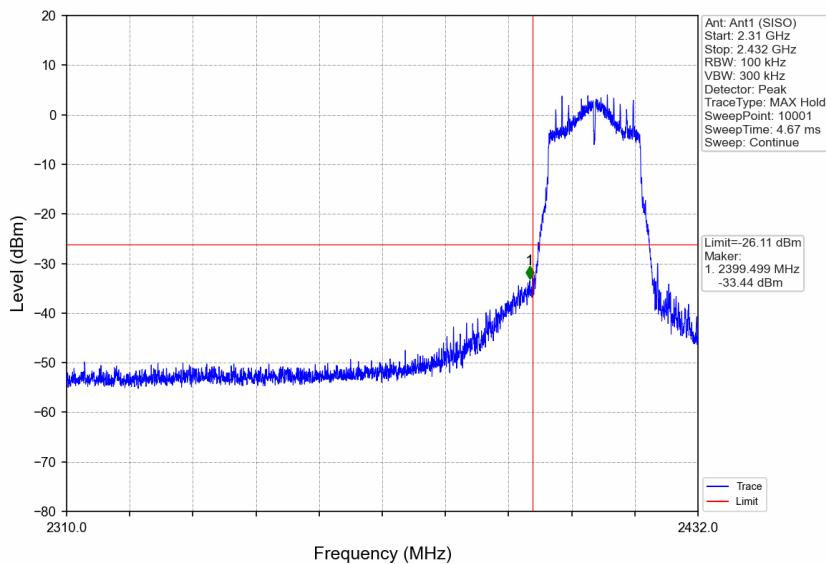


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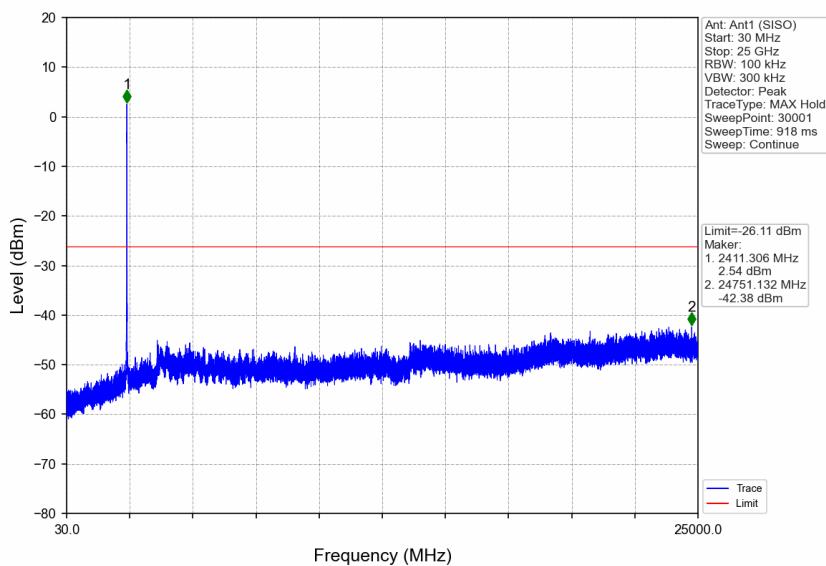
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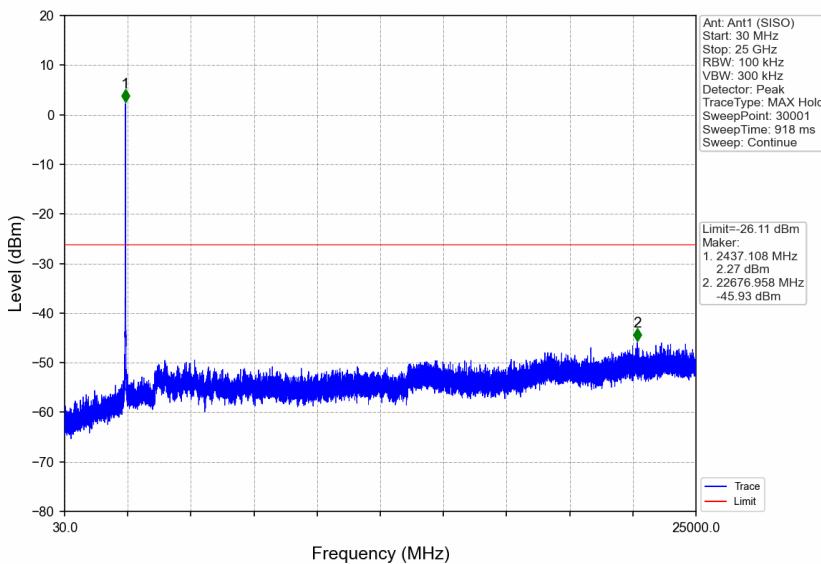


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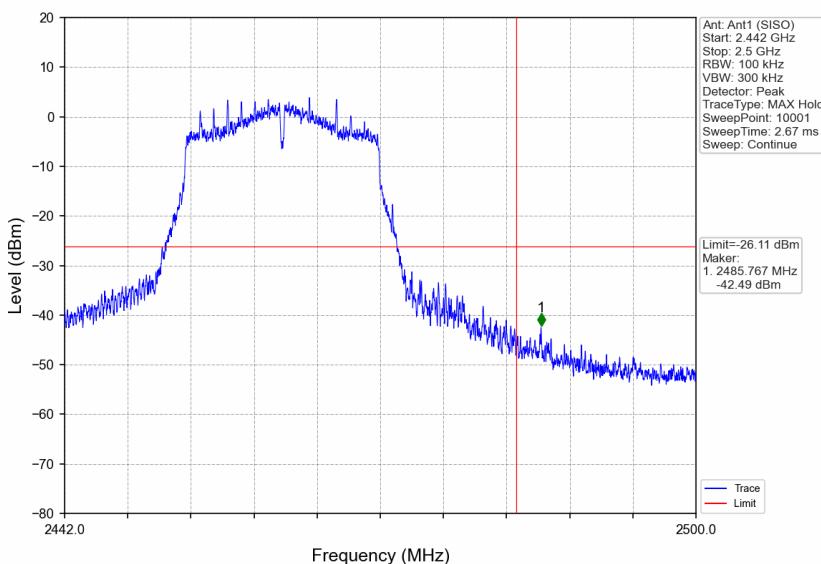
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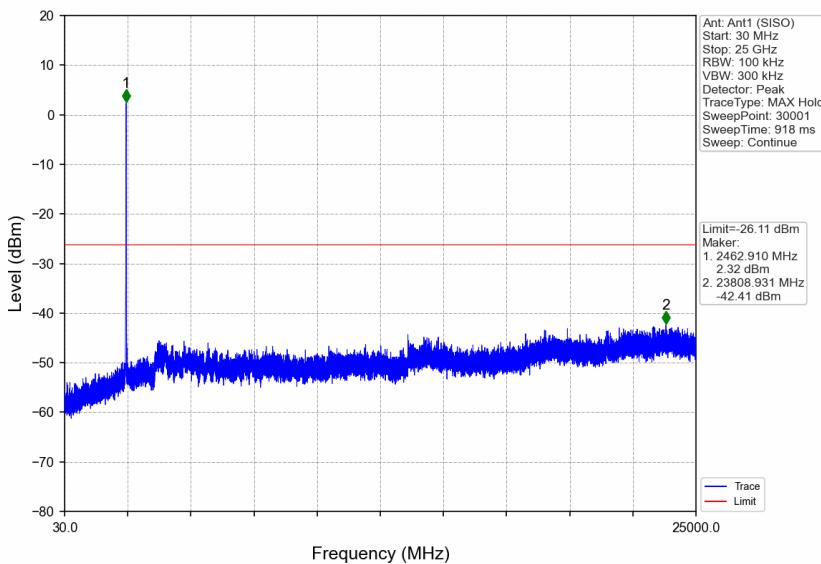
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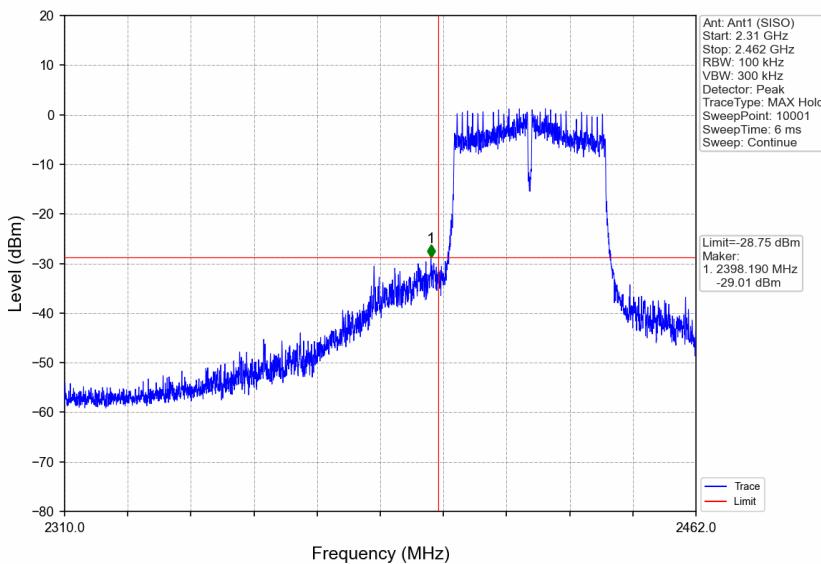
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

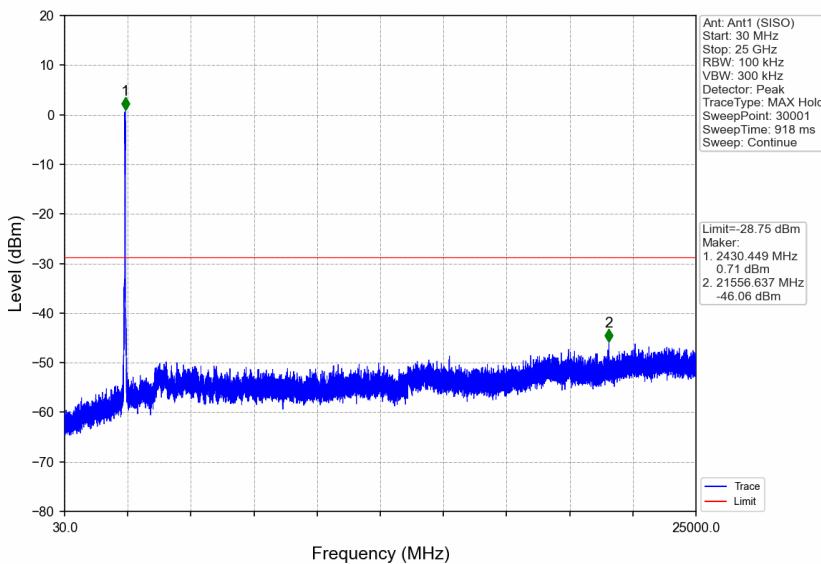


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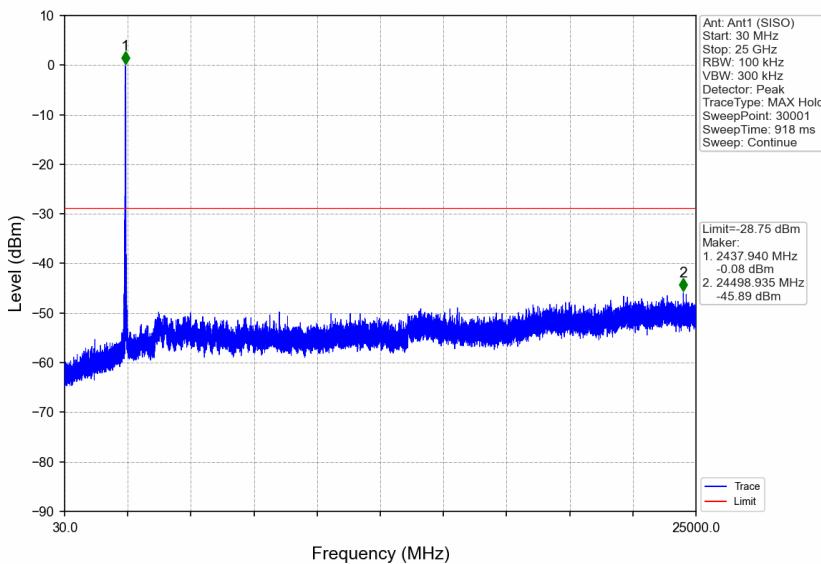
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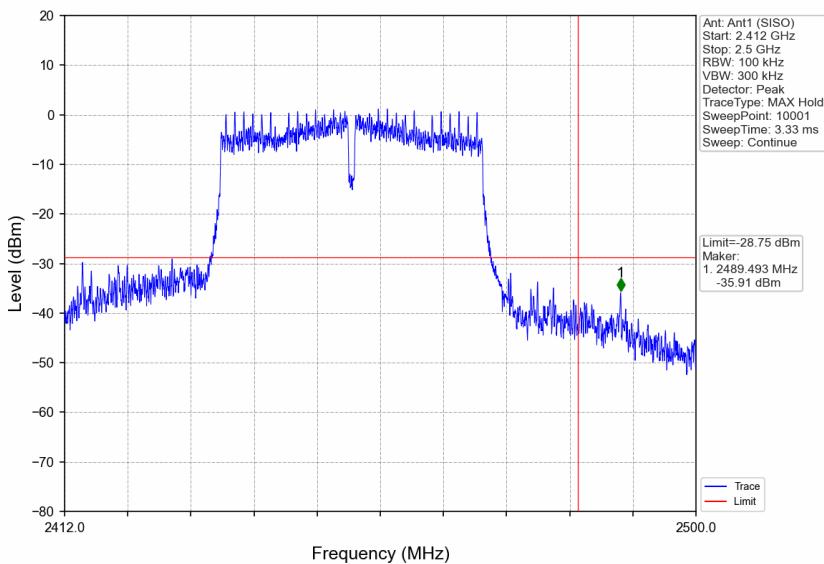


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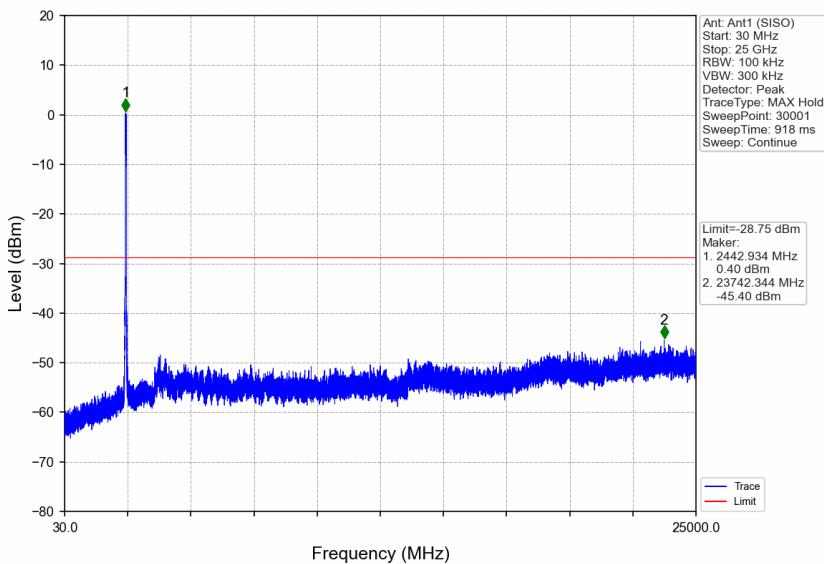
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