

Appendix A for KSCR211200030501

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	0.00
		2437	12.414	12.710	97.67	0.10	0.00
		2462	12.413	12.713	97.64	0.10	0.03
802.11g	SISO	2412	2.063	2.366	87.19	0.60	0.03
		2437	2.063	2.366	87.19	0.60	0.03
		2462	2.064	2.367	87.20	0.59	0.03
802.11n (HT20)	SISO	2412	1.919	2.222	86.36	0.64	0.04
		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	0.944	1.246	75.76	1.21	0.01
		2437	0.944	1.247	75.70	1.21	0.03
		2452	0.946	1.248	75.80	1.20	0.05

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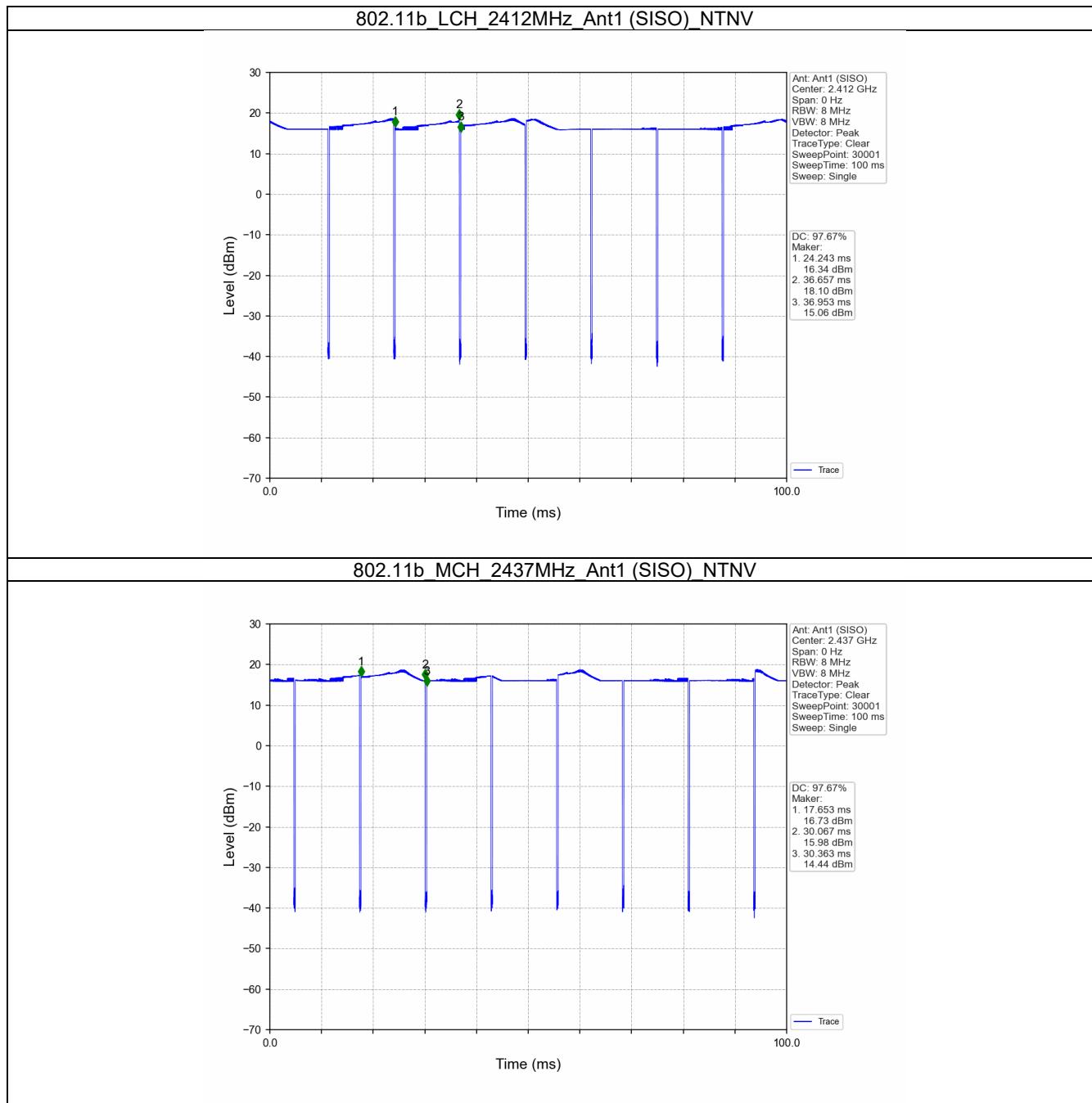
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1.1.2 Test Graph

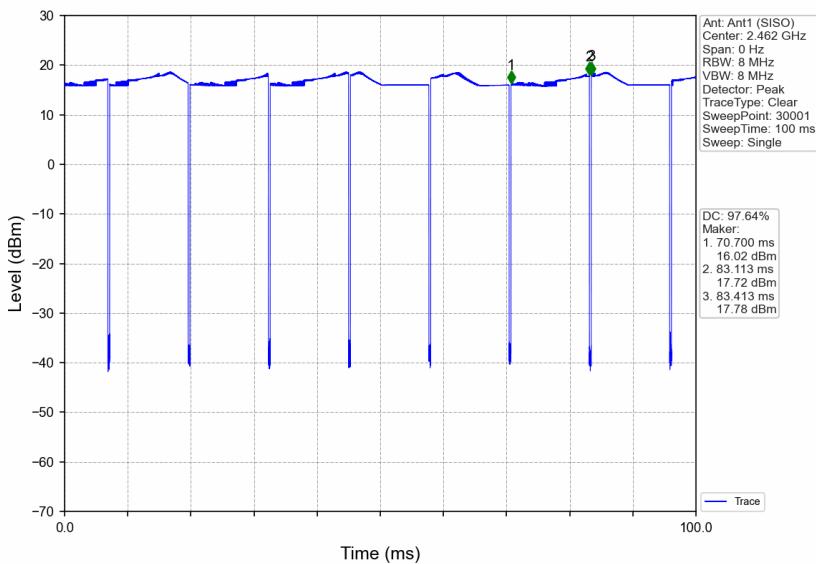


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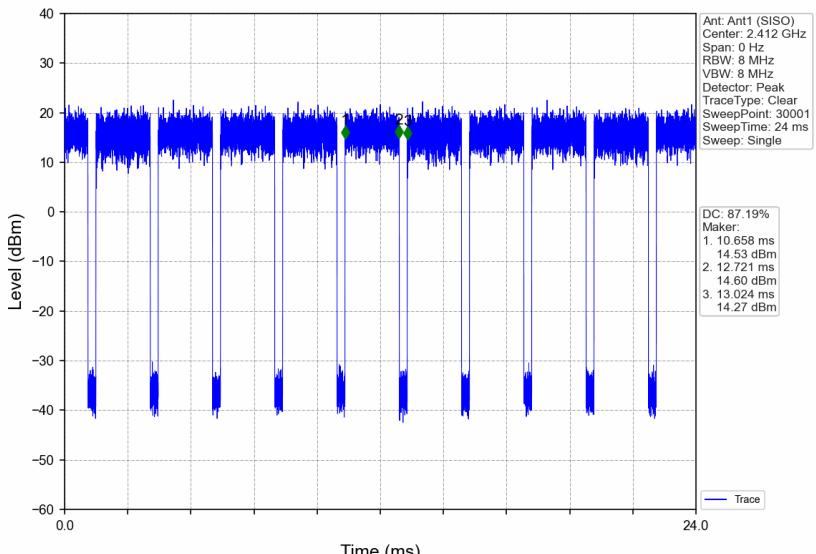
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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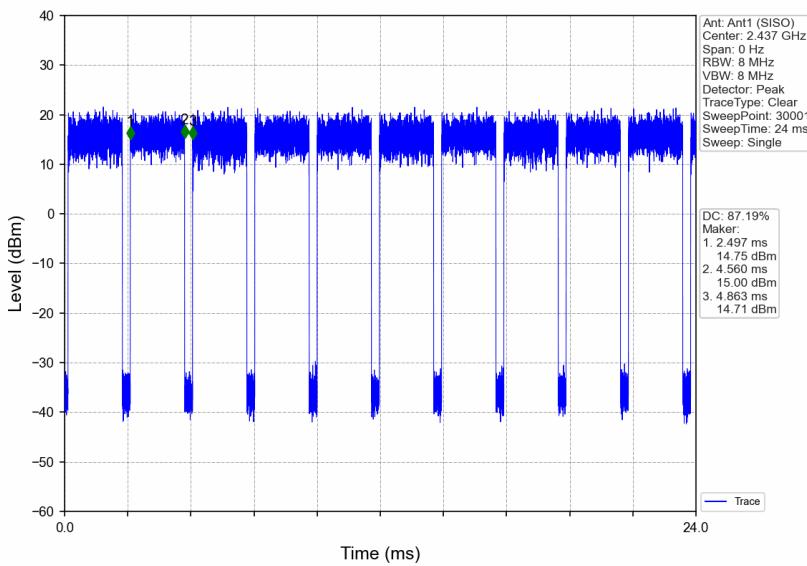


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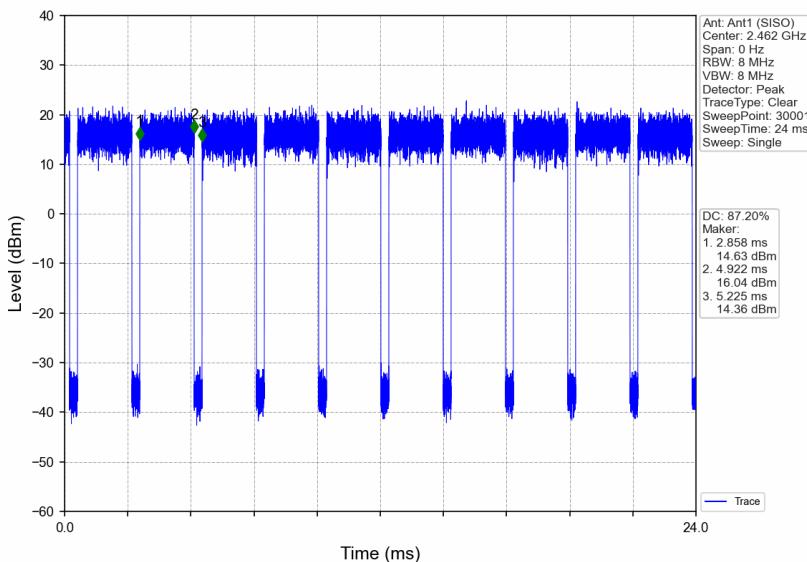
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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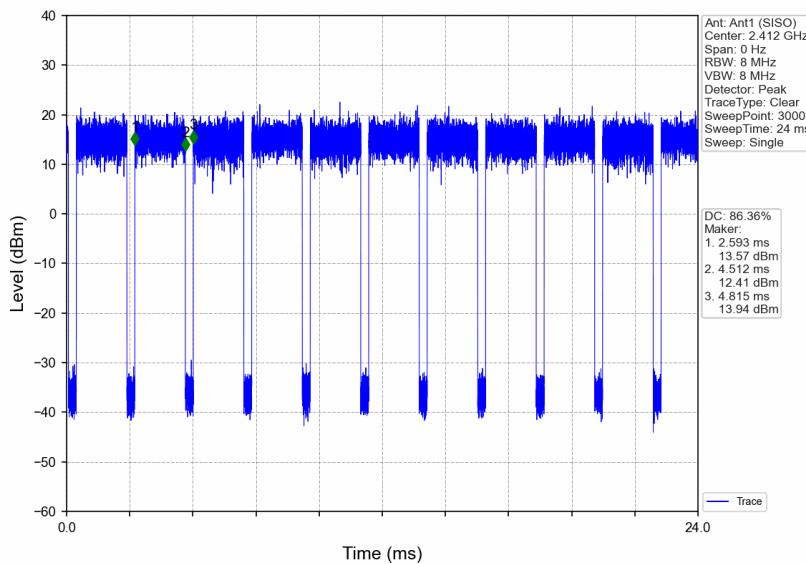


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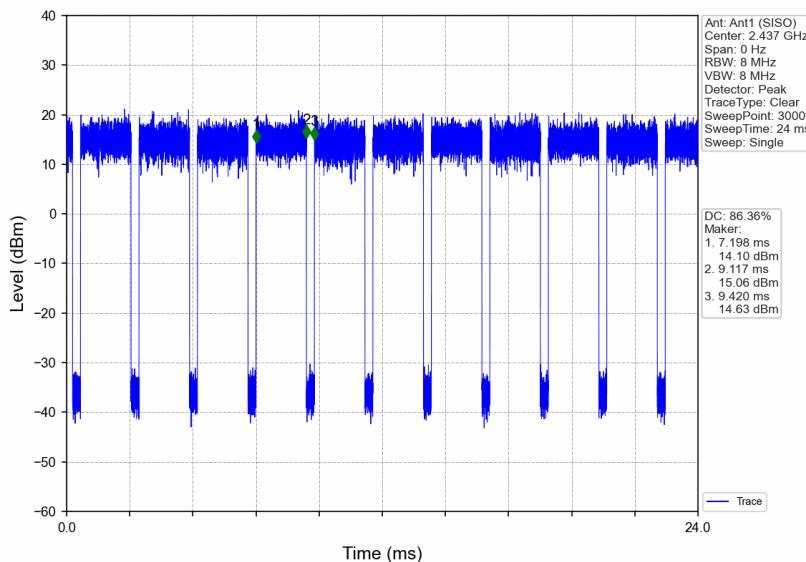
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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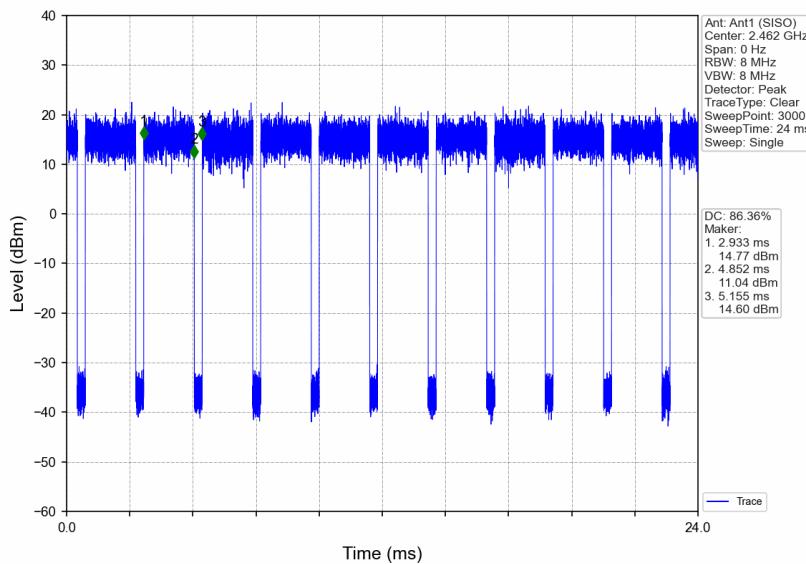


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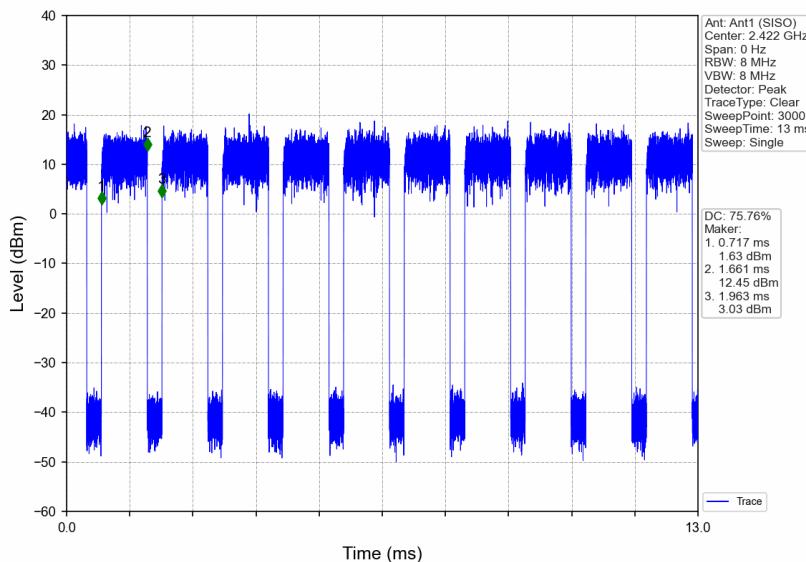
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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV

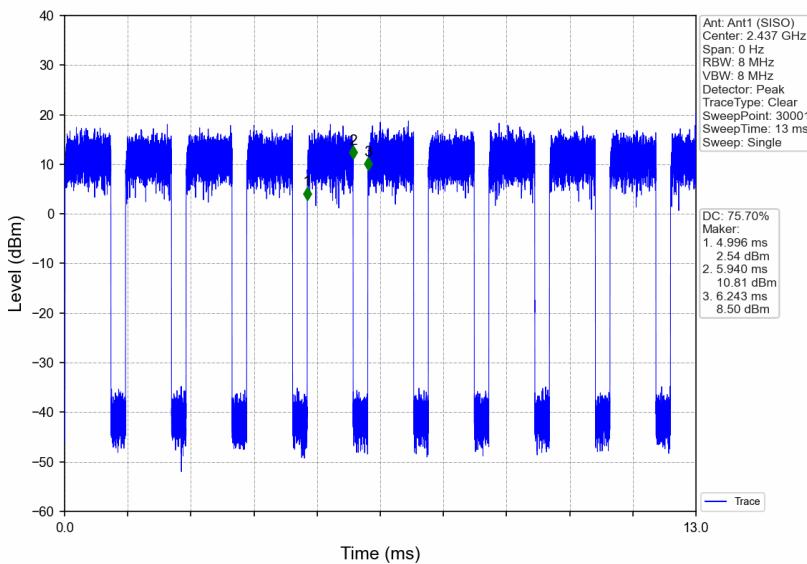


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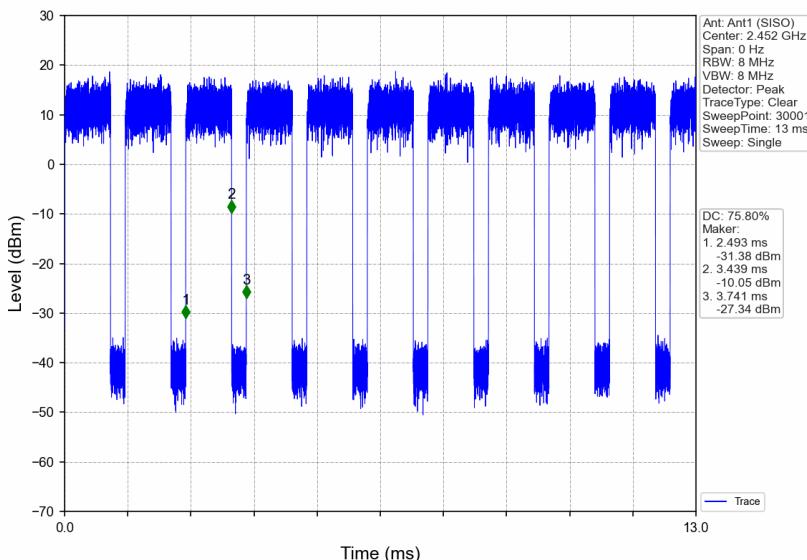
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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



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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	11.650		Pass
		2437	1	11.667		Pass
		2462	1	11.784		Pass
802.11g	SISO	2412	1	17.700		Pass
		2437	1	17.935		Pass
		2462	1	17.638		Pass
802.11n (HT20)	SISO	2412	1	18.656		Pass
		2437	1	18.858		Pass
		2462	1	18.537		Pass
802.11n (HT40)	SISO	2422	1	36.761		Pass
		2437	1	36.832		Pass
		2452	1	36.740		Pass

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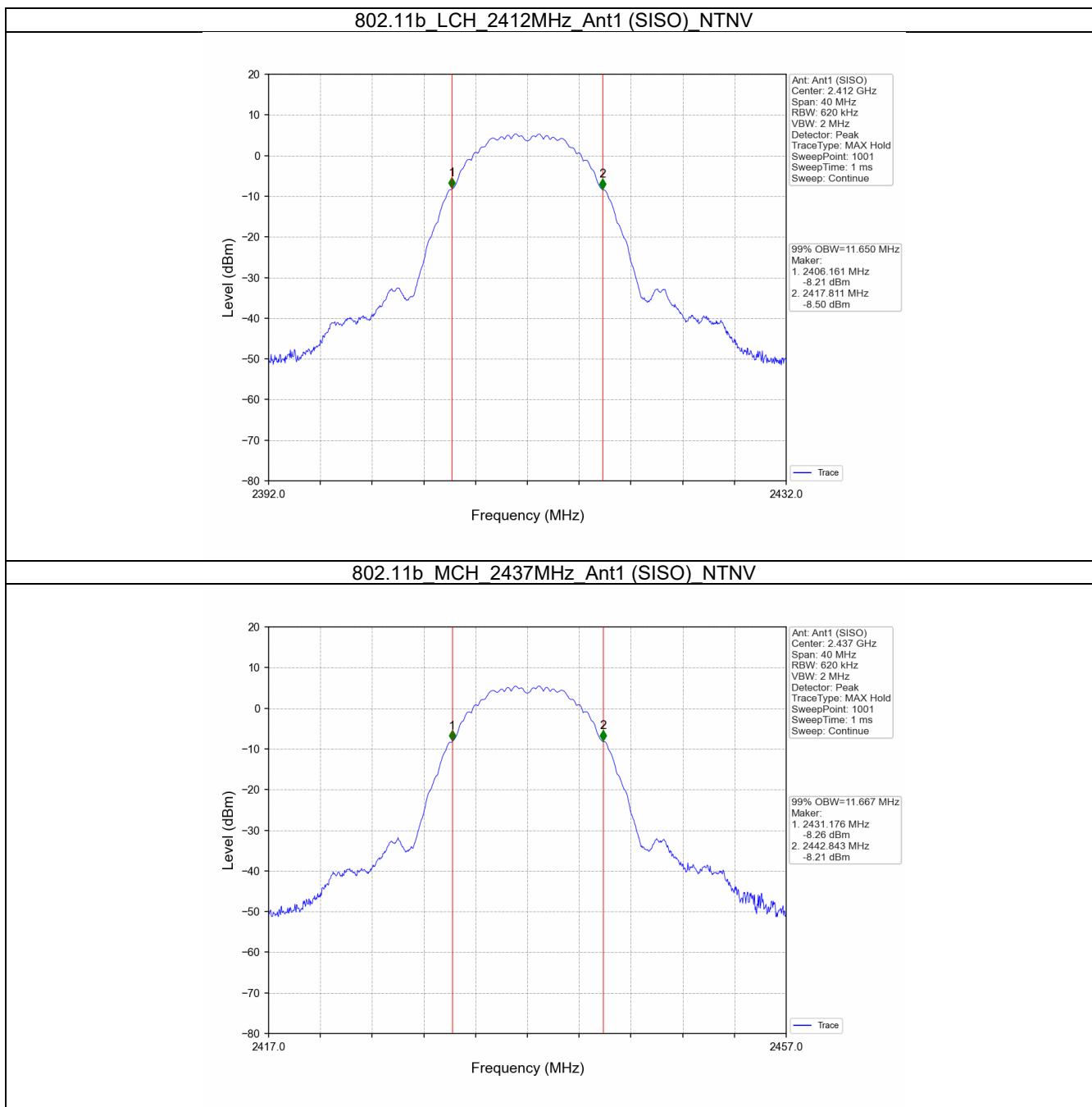


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2.1.2 Test Graph

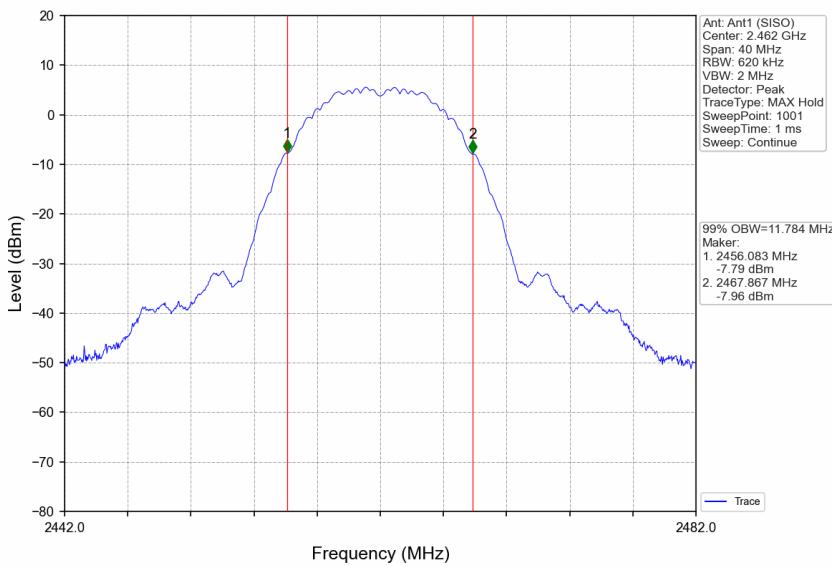


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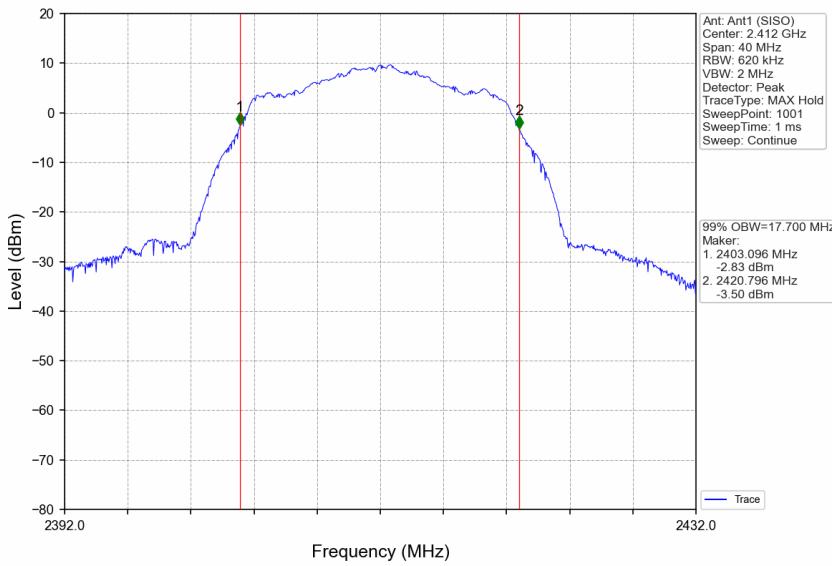
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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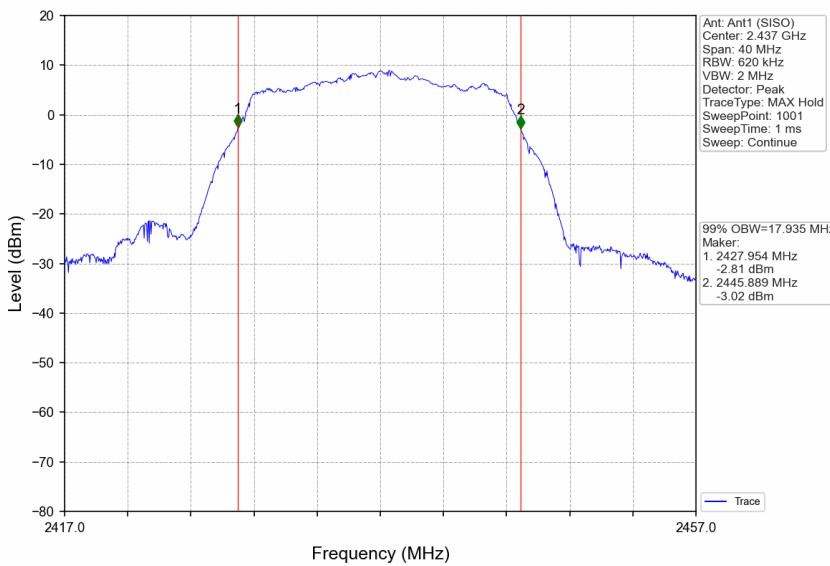
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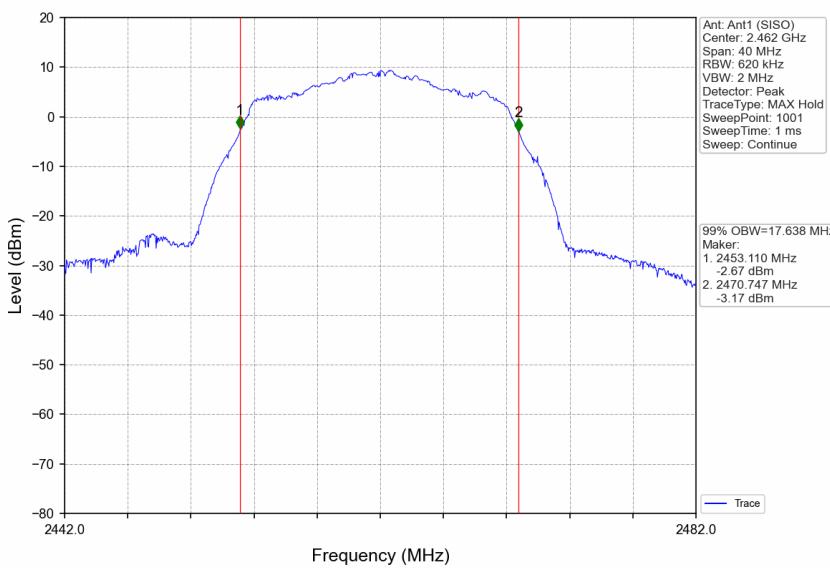
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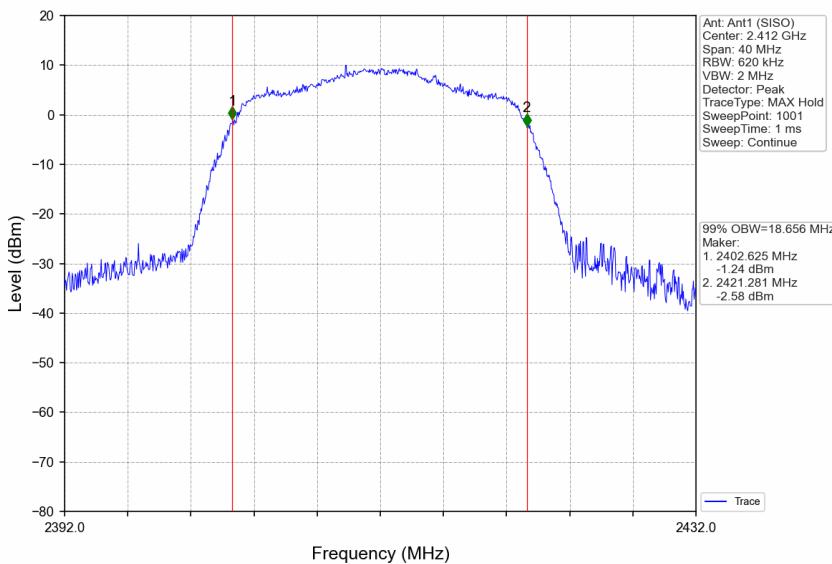


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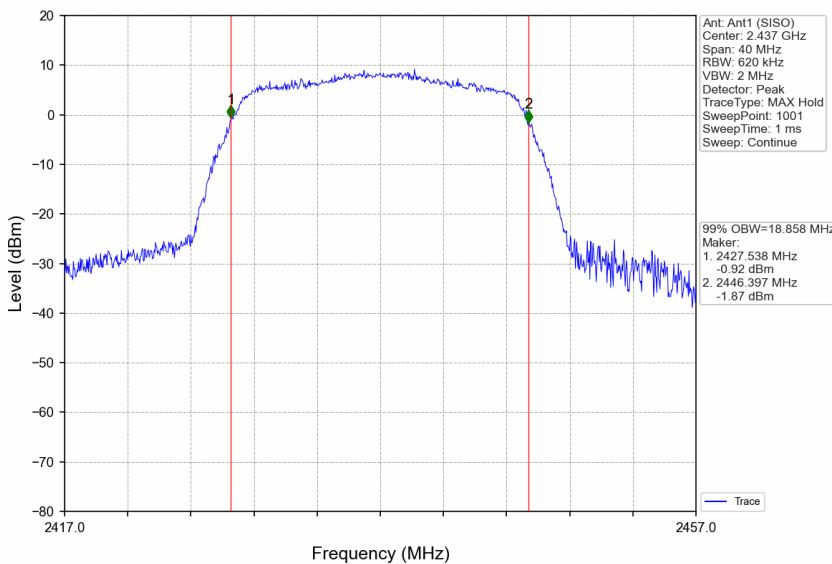
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802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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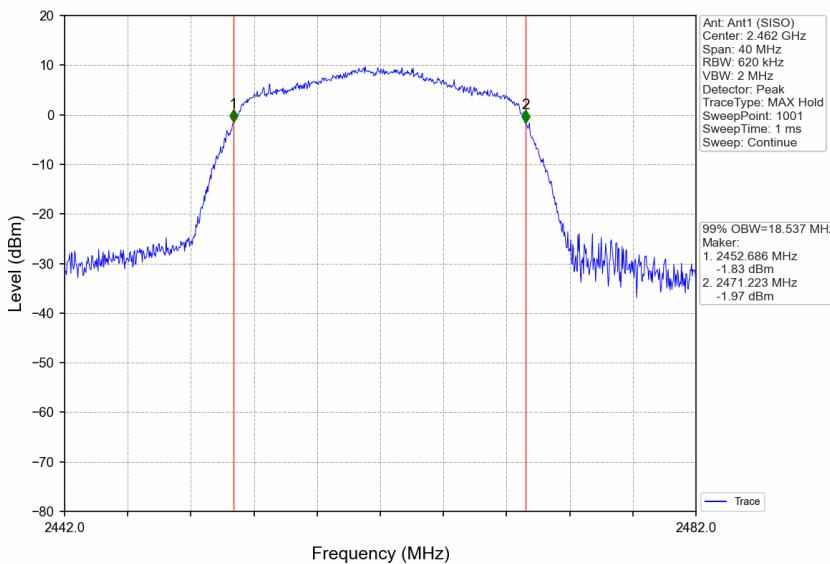


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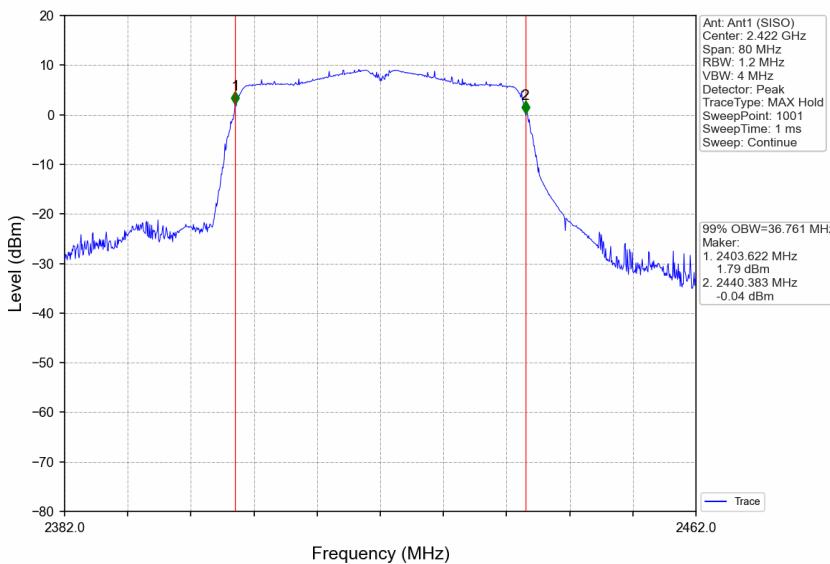
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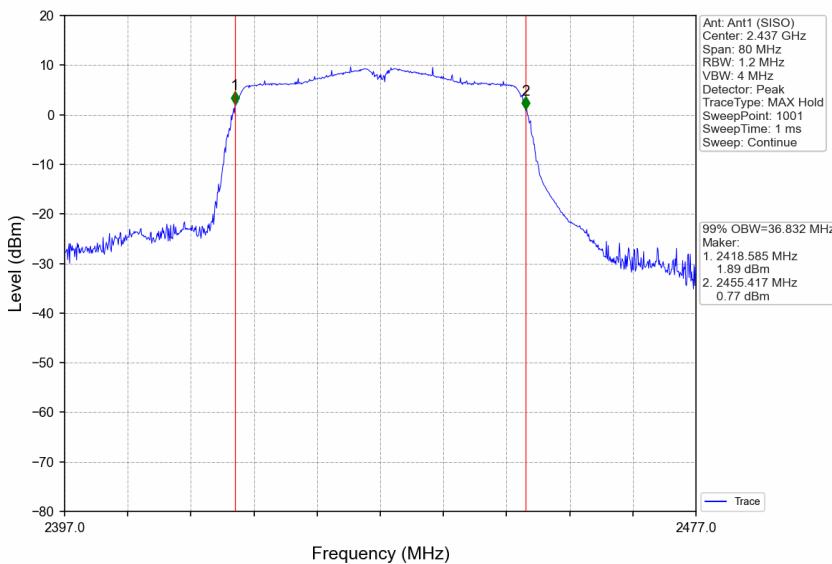
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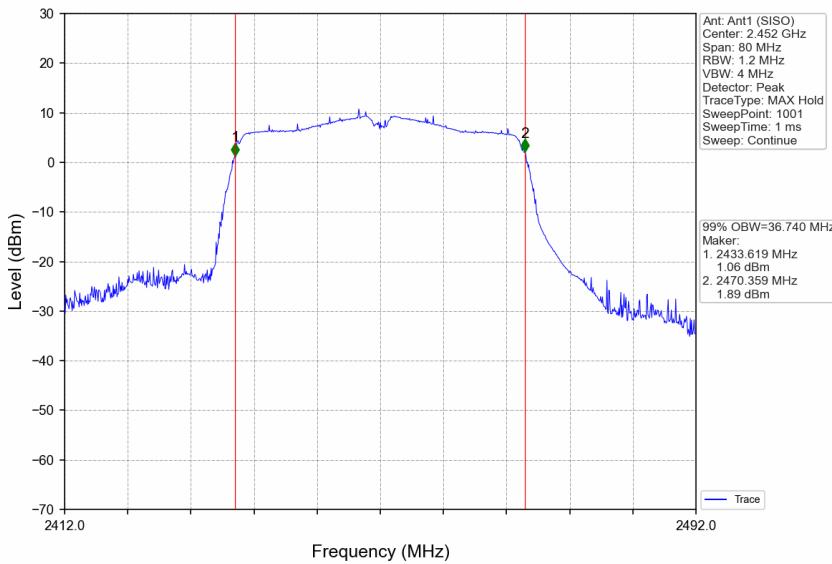
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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



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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	8.568	>=0.5	Pass
		2437	1	8.109	>=0.5	Pass
		2462	1	9.047	>=0.5	Pass
802.11g	SISO	2412	1	15.216	>=0.5	Pass
		2437	1	16.343	>=0.5	Pass
		2462	1	15.747	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.221	>=0.5	Pass
		2437	1	17.523	>=0.5	Pass
		2462	1	15.216	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.063	>=0.5	Pass
		2437	1	35.542	>=0.5	Pass
		2452	1	35.405	>=0.5	Pass

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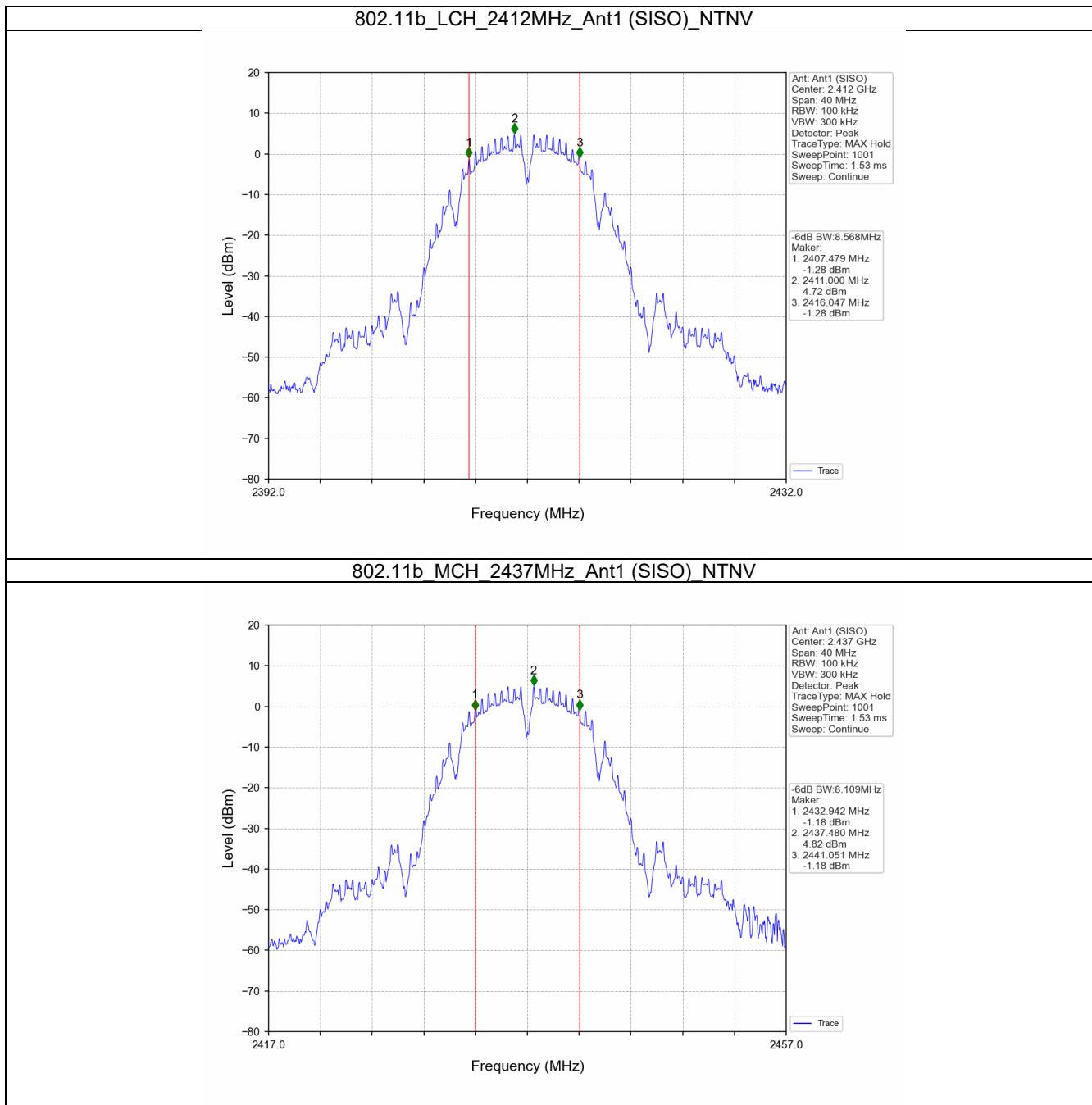
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2.2.2 Test Graph

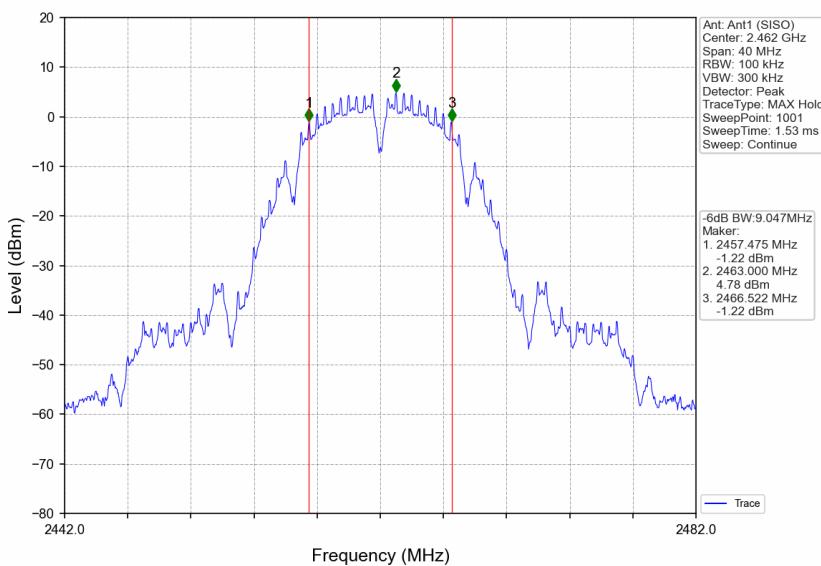


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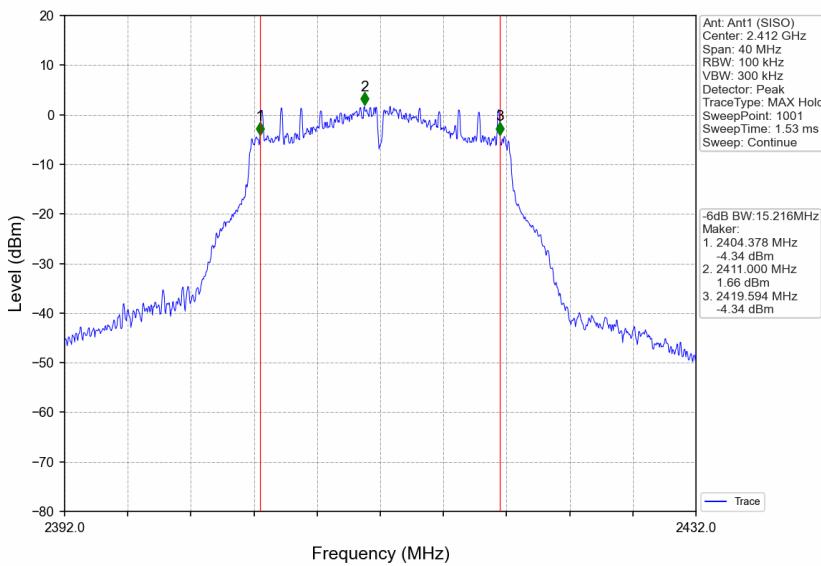
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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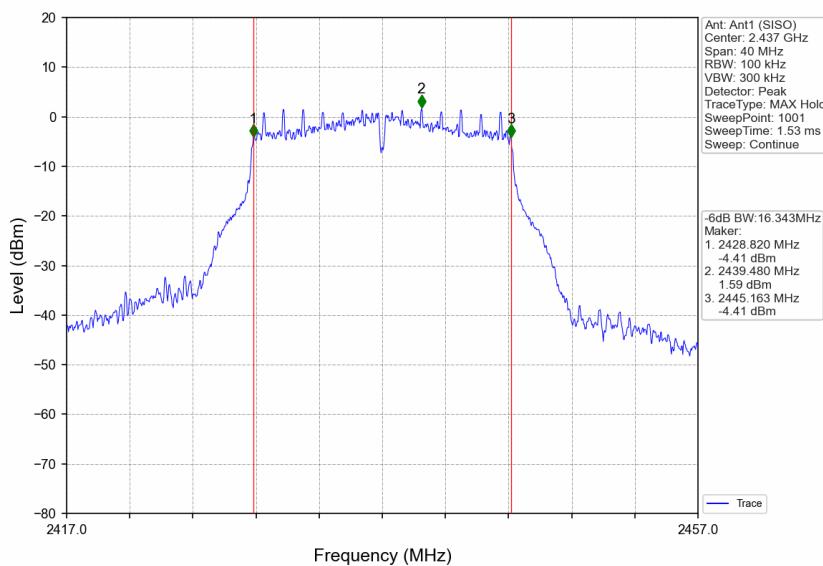


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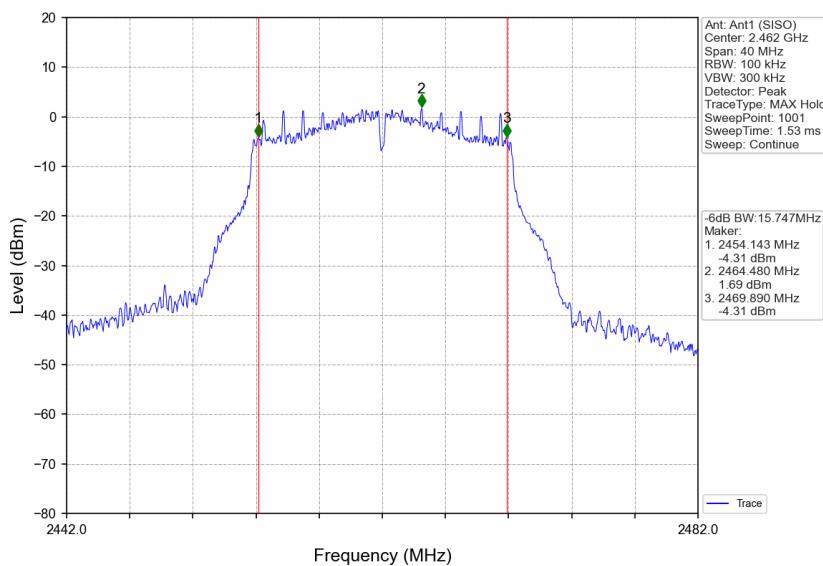
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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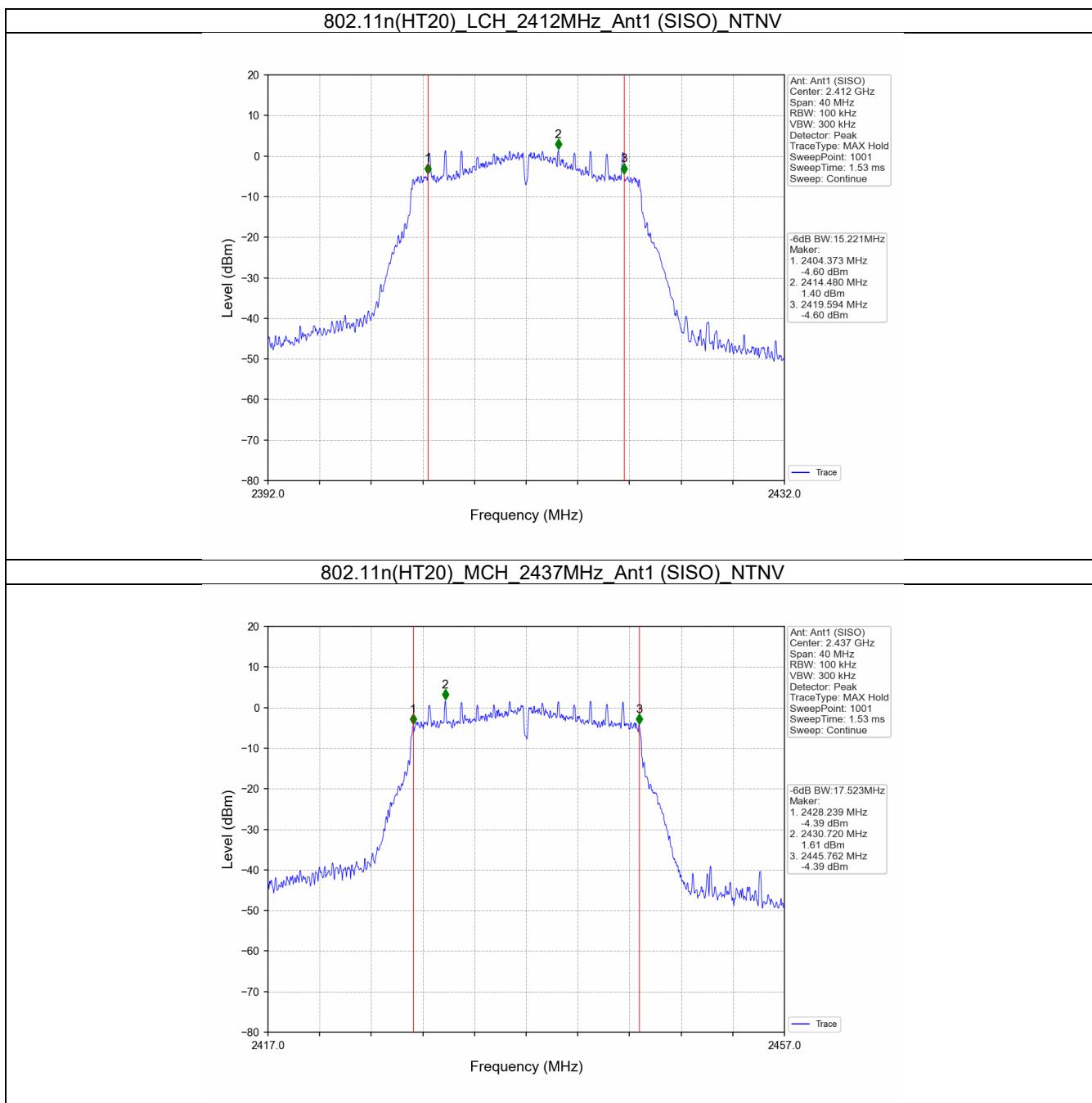
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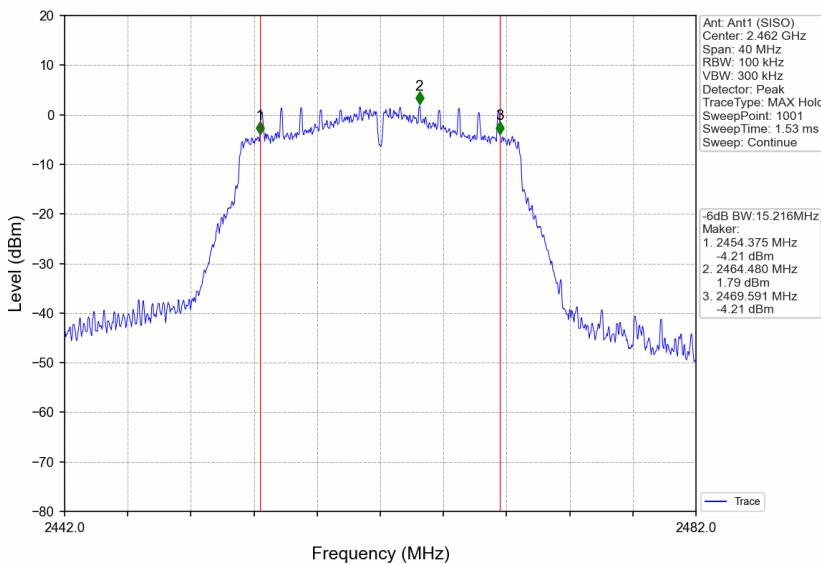


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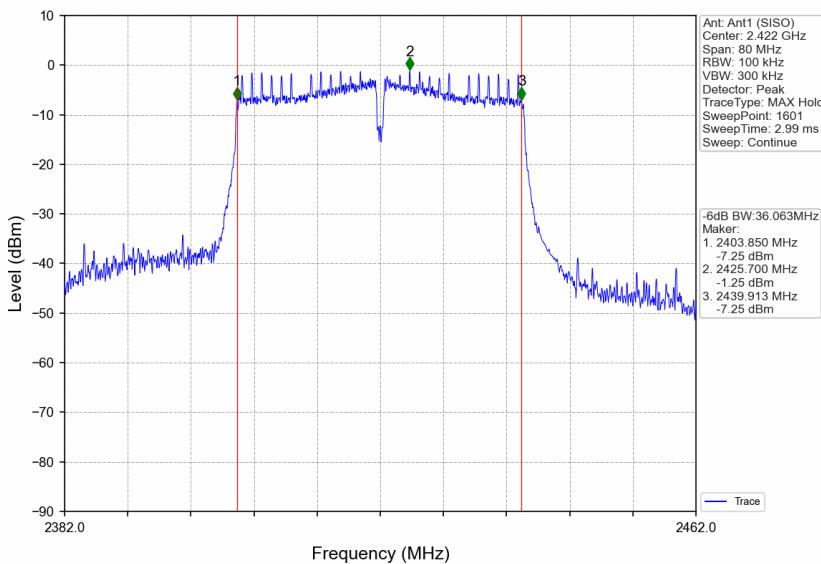
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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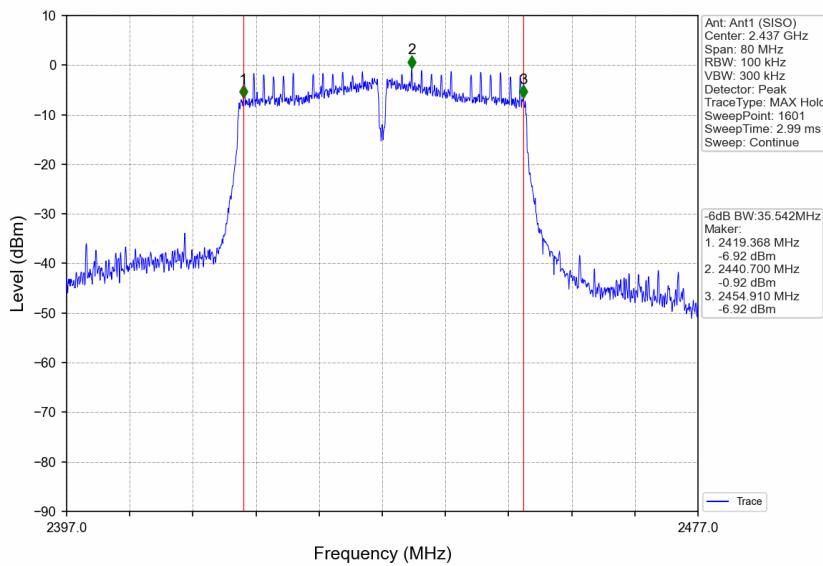


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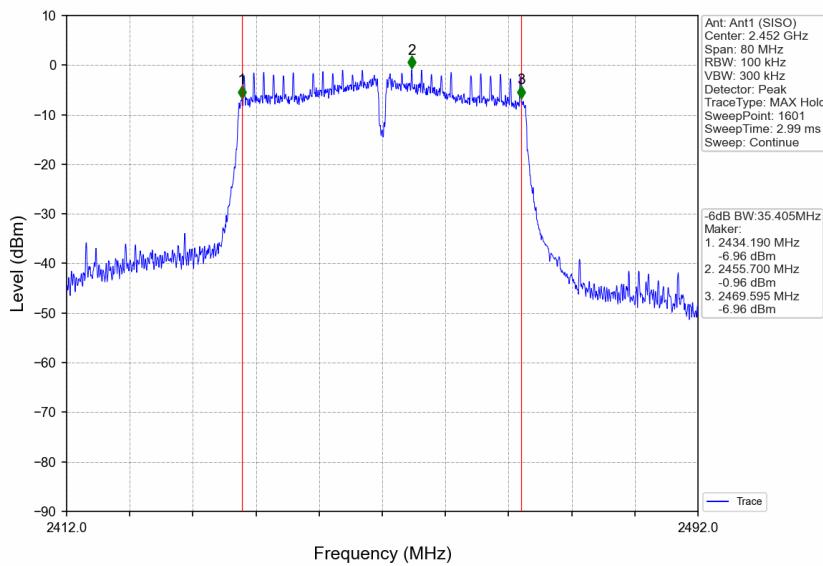
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802.11n(HT40) MCH 2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40) HCH 2452MHz_Ant1 (SISO)_NTNV



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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	12.87	<=30	Pass
		2437	13.10	<=30	Pass
		2462	13.25	<=30	Pass
802.11g	SISO	2412	13.26	<=30	Pass
		2437	13.19	<=30	Pass
		2462	13.31	<=30	Pass
802.11n (HT20)	SISO	2412	12.66	<=30	Pass
		2437	12.82	<=30	Pass
		2462	12.92	<=30	Pass
802.11n (HT40)	SISO	2422	12.67	<=30	Pass
		2437	12.95	<=30	Pass
		2452	13.01	<=30	Pass

Note1: Antenna Gain: Ant1: 5.66dBi;

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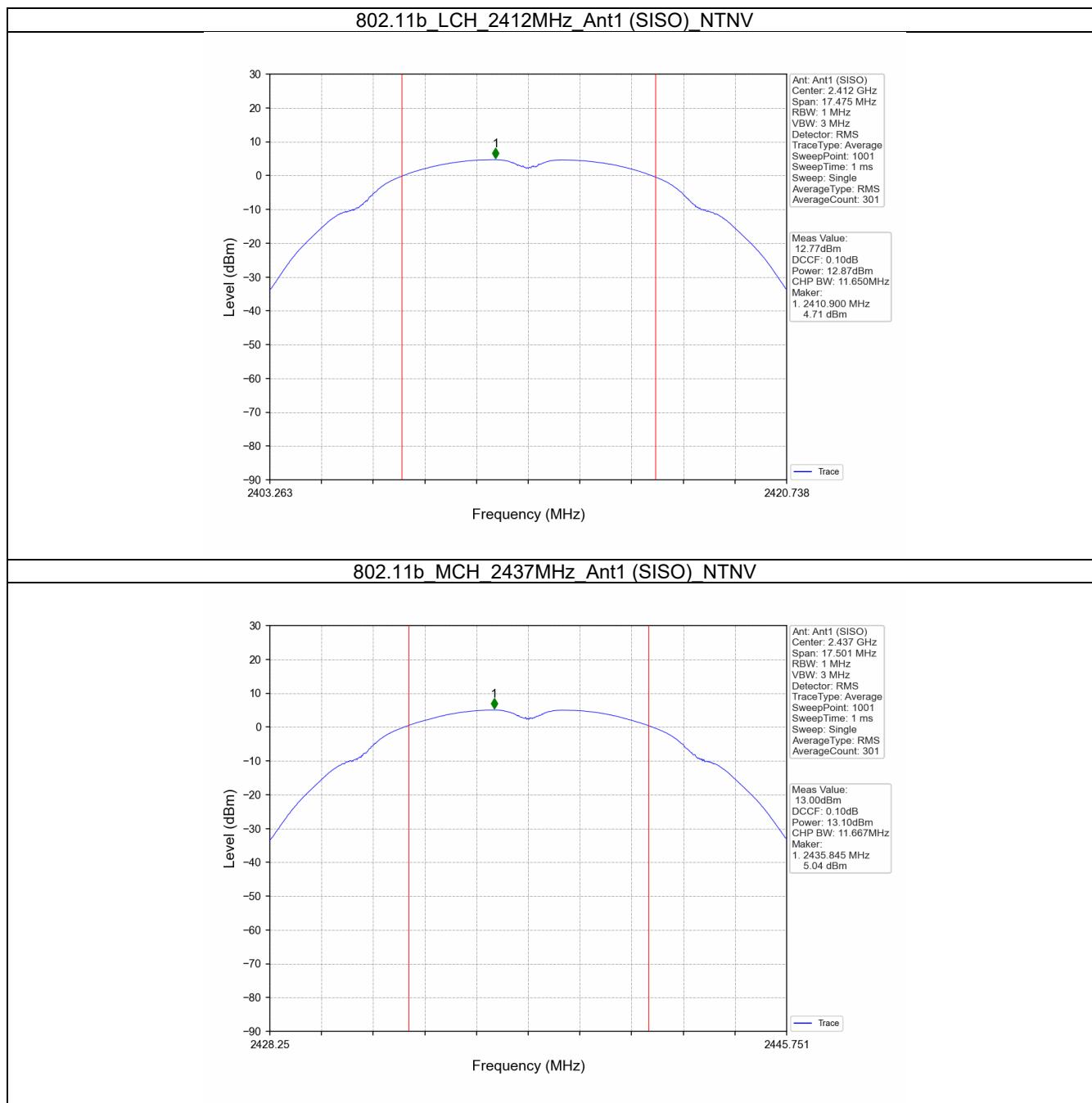
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3.1.2 Test Graph

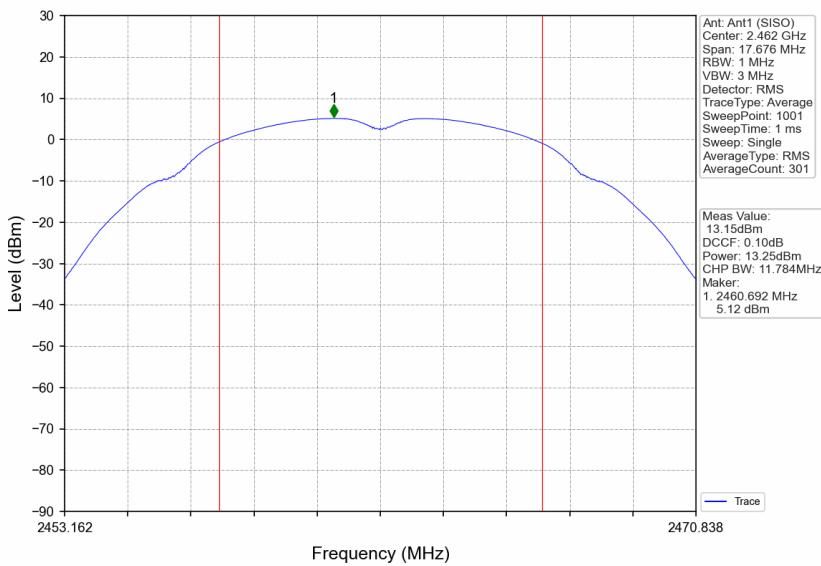


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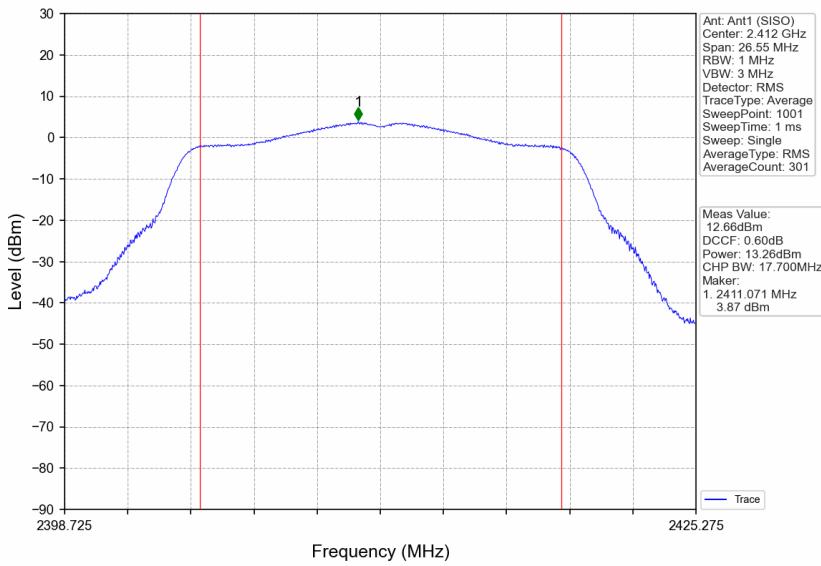
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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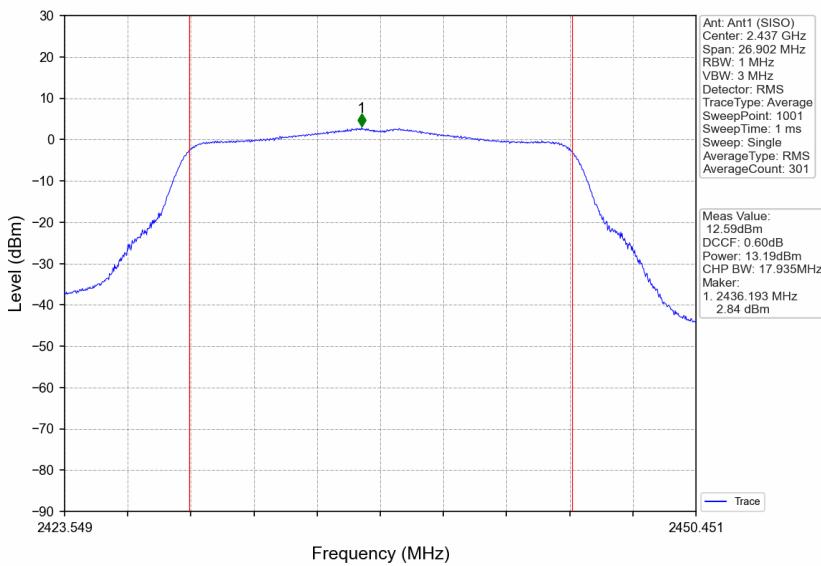


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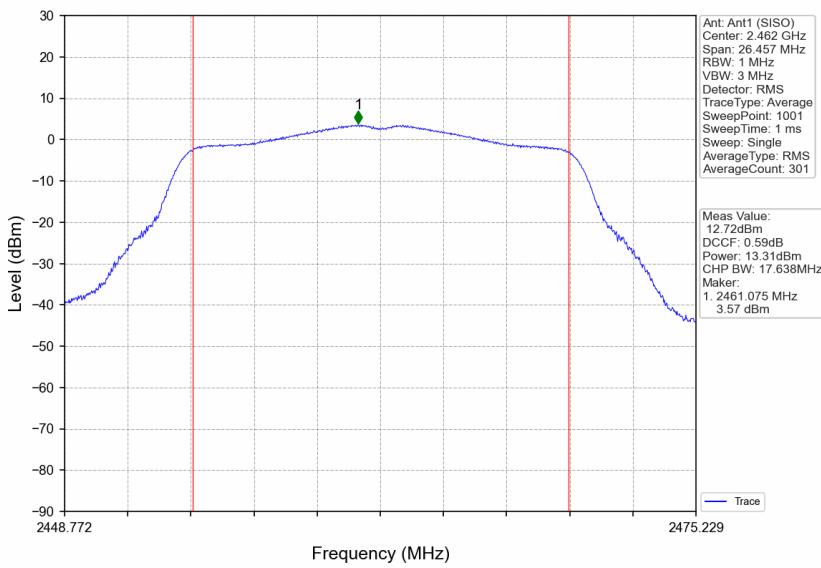
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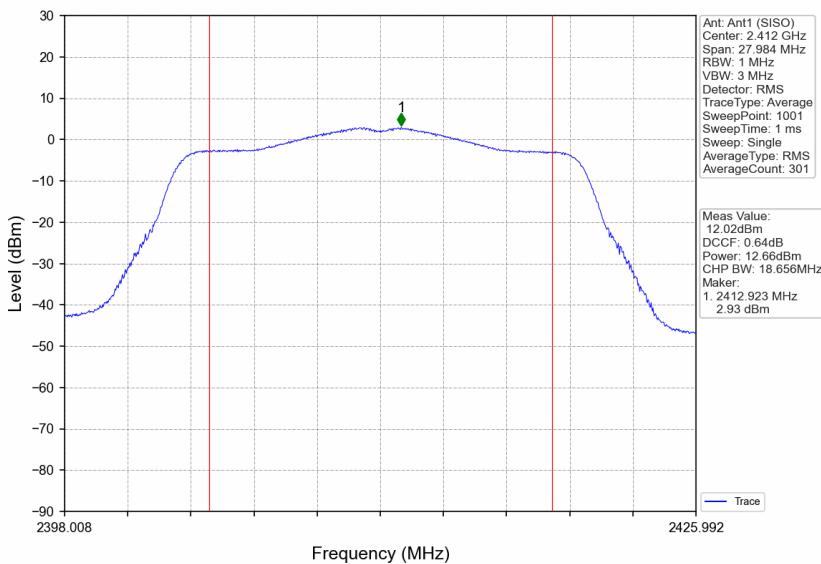


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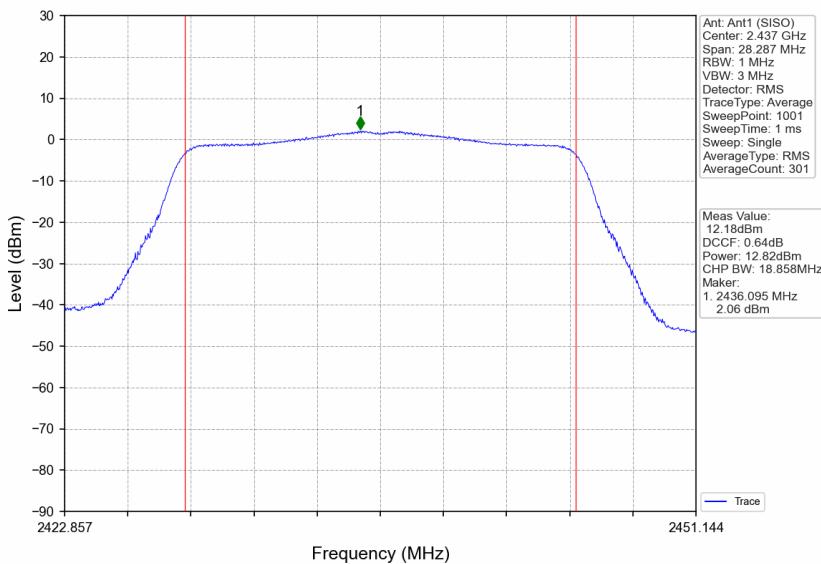
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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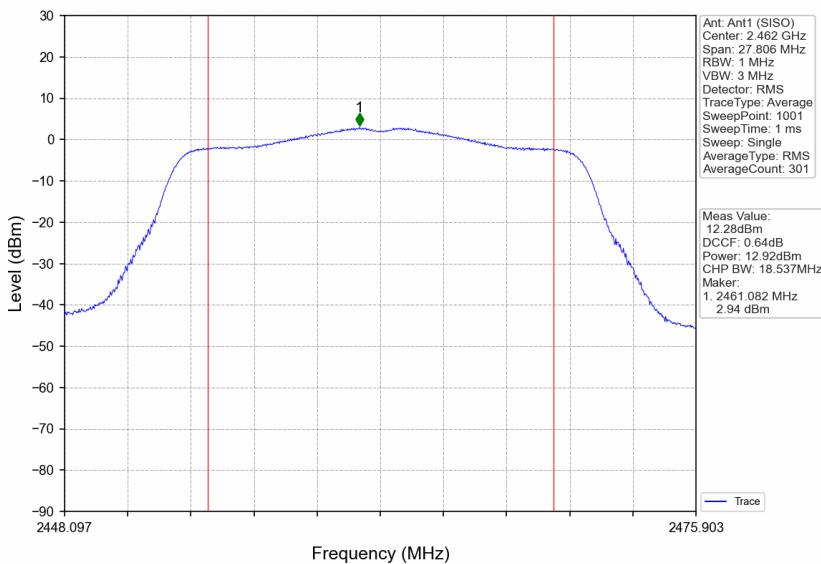


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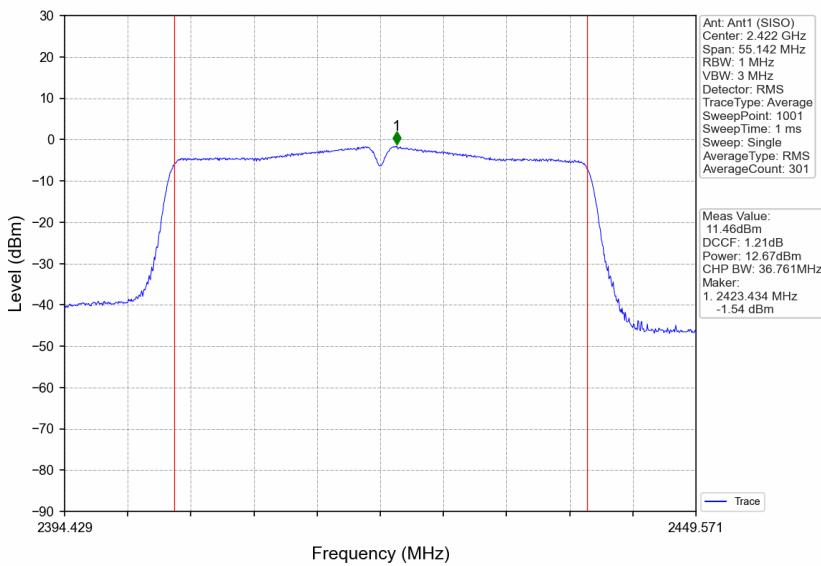
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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



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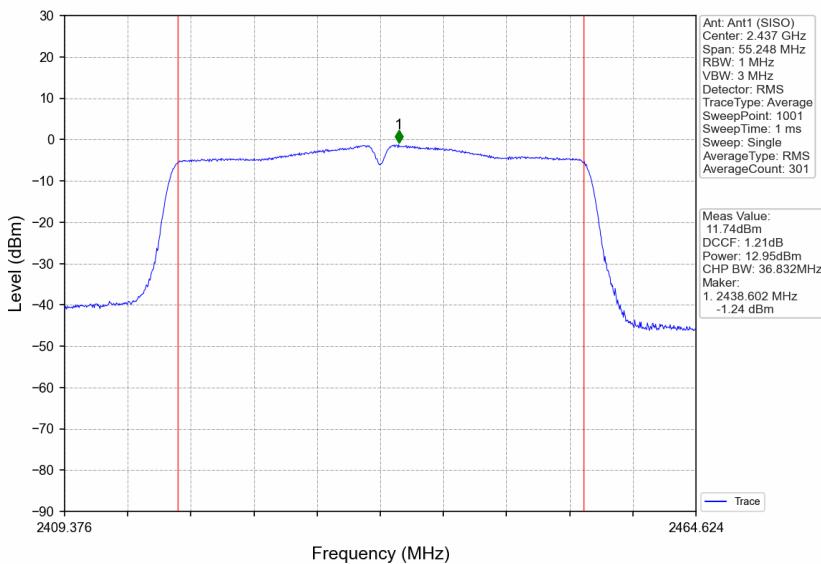


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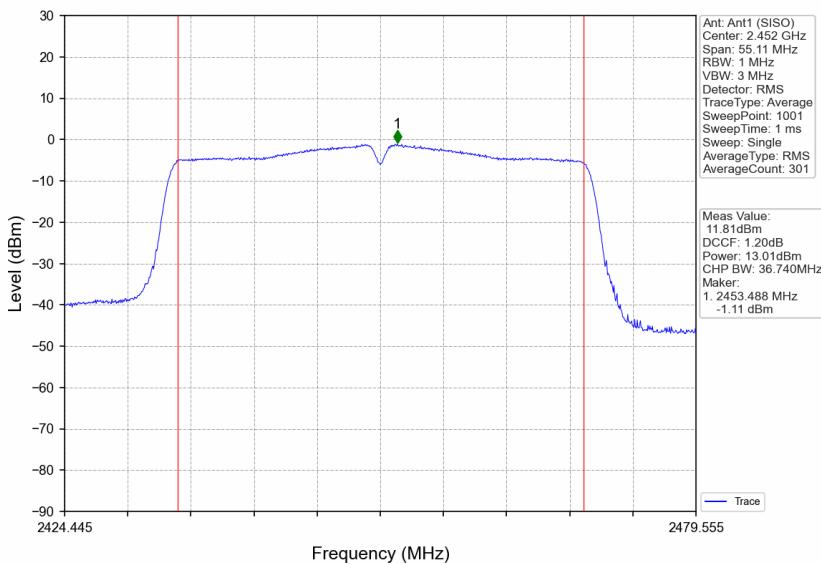
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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



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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	-10.75	<=8	Pass
		2437	-10.12	<=8	Pass
		2462	-10.19	<=8	Pass
802.11g	SISO	2412	-10.49	<=8	Pass
		2437	-11.38	<=8	Pass
		2462	-11.03	<=8	Pass
802.11n (HT20)	SISO	2412	-10.48	<=8	Pass
		2437	-11.17	<=8	Pass
		2462	-10.41	<=8	Pass
802.11n (HT40)	SISO	2422	-14.65	<=8	Pass
		2437	-14.58	<=8	Pass
		2452	-14.55	<=8	Pass

Note1: Antenna Gain: Ant1: 5.66dBi;

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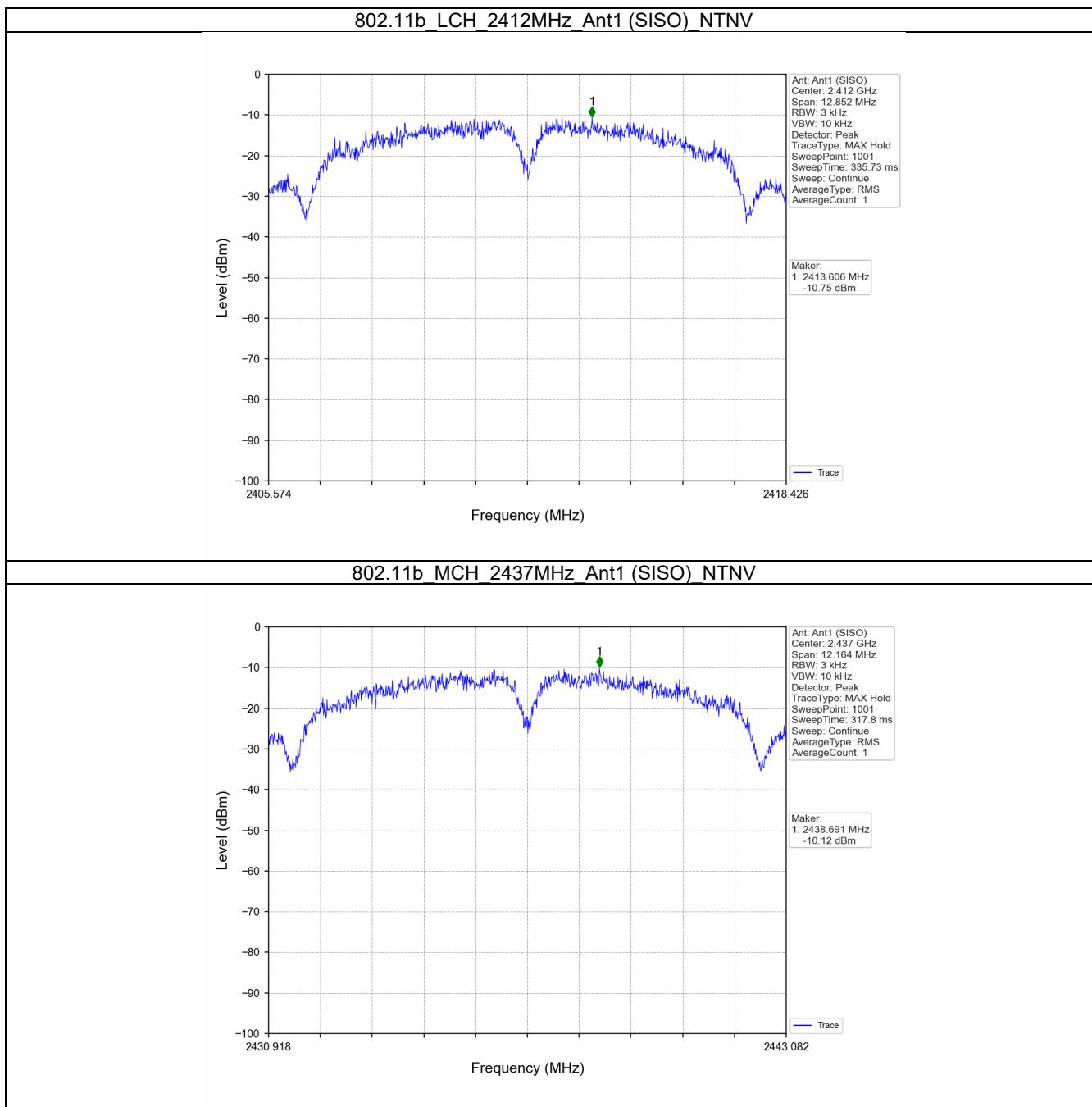


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4.1.2 Test Graph



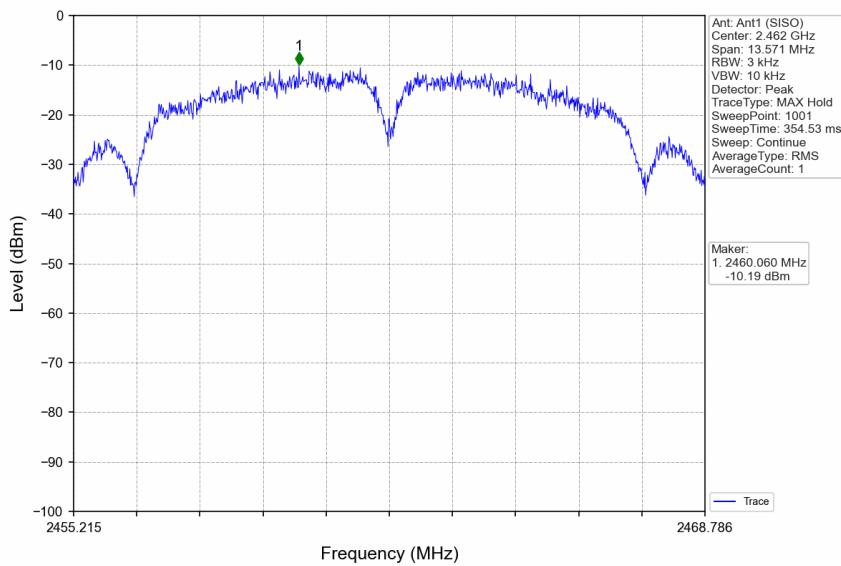
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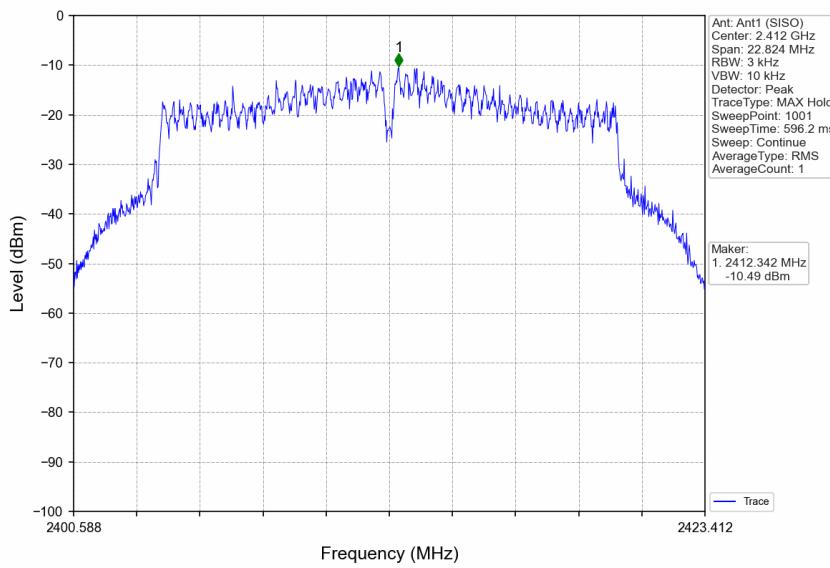
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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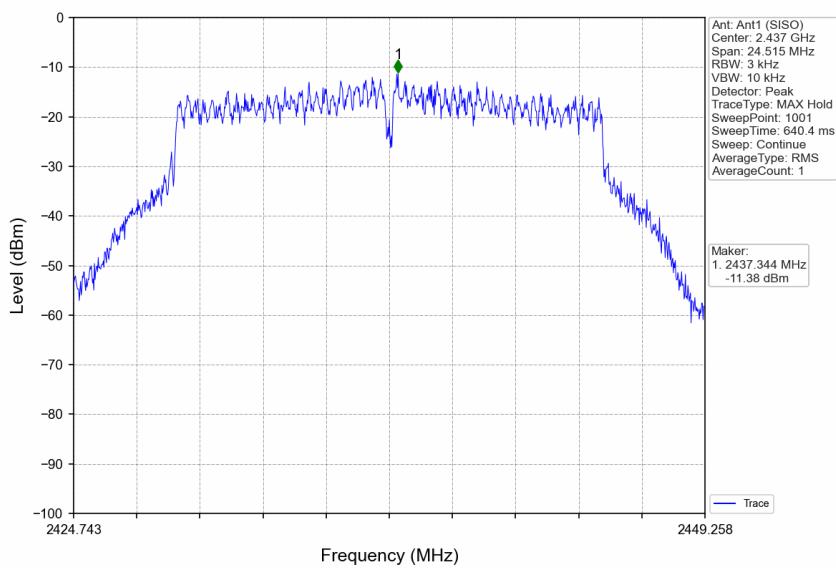


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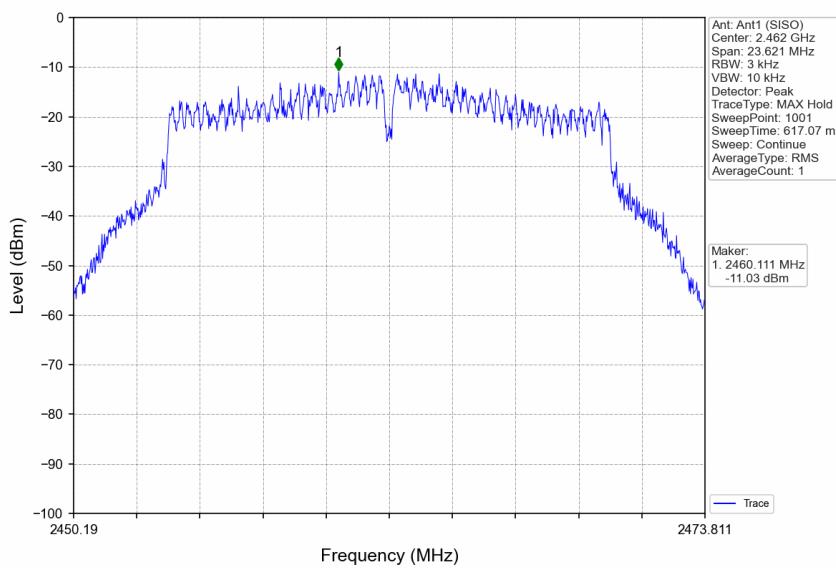
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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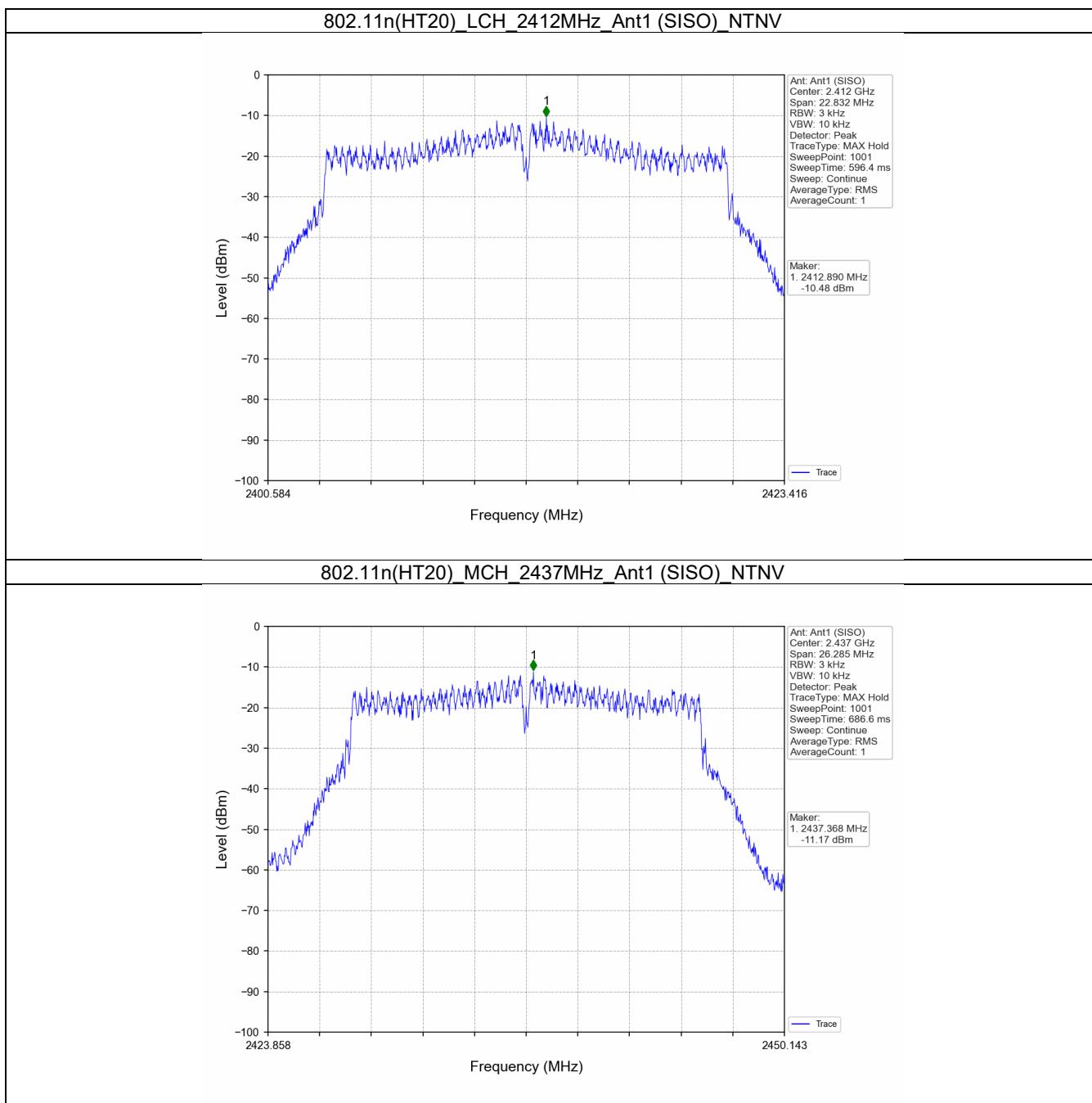
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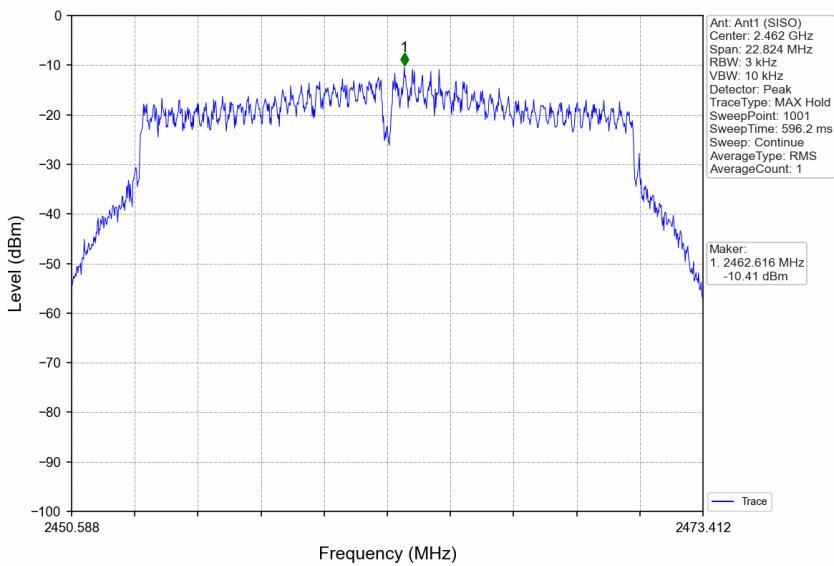


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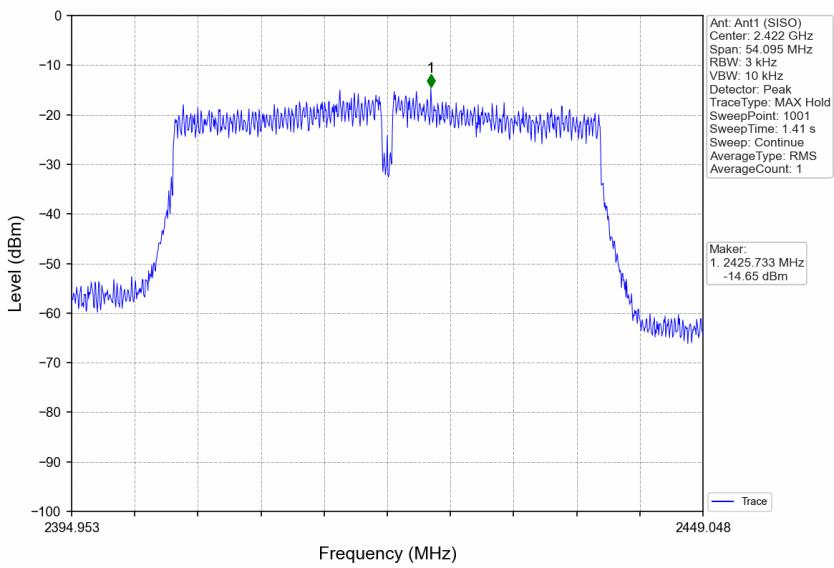
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



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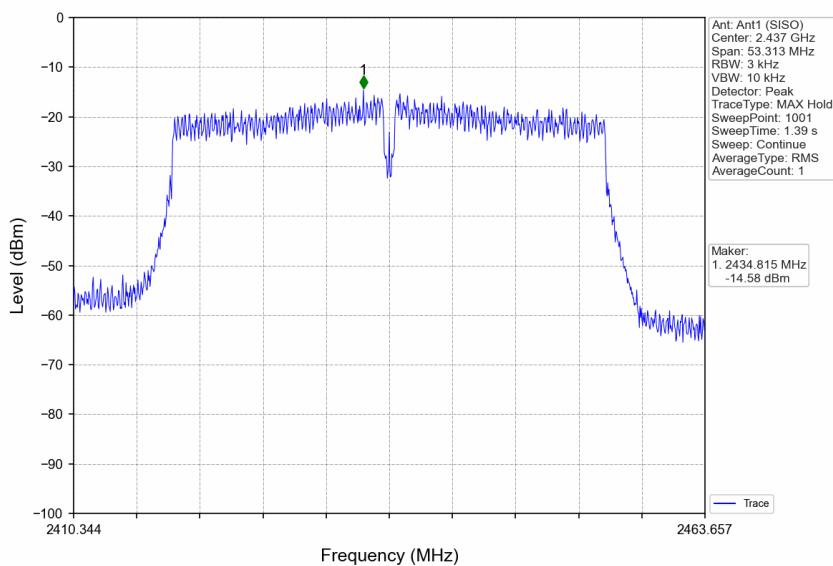
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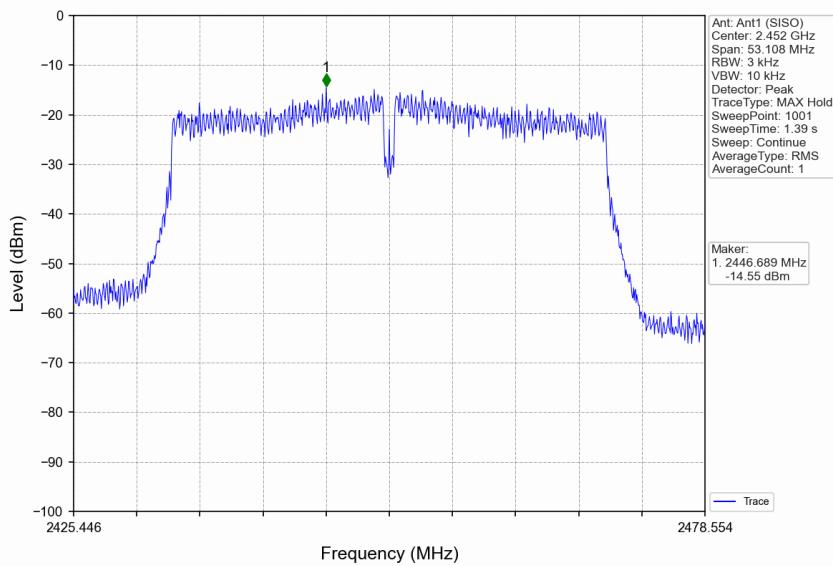
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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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



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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	4.50
		2437	1	4.71
		2462	1	4.70
802.11g	SISO	2412	1	1.68
		2437	1	1.62
		2462	1	1.63
802.11n (HT20)	SISO	2412	1	1.31
		2437	1	1.63
		2462	1	1.74
802.11n (HT40)	SISO	2422	1	-1.18
		2437	1	-1.22
		2452	1	-1.02

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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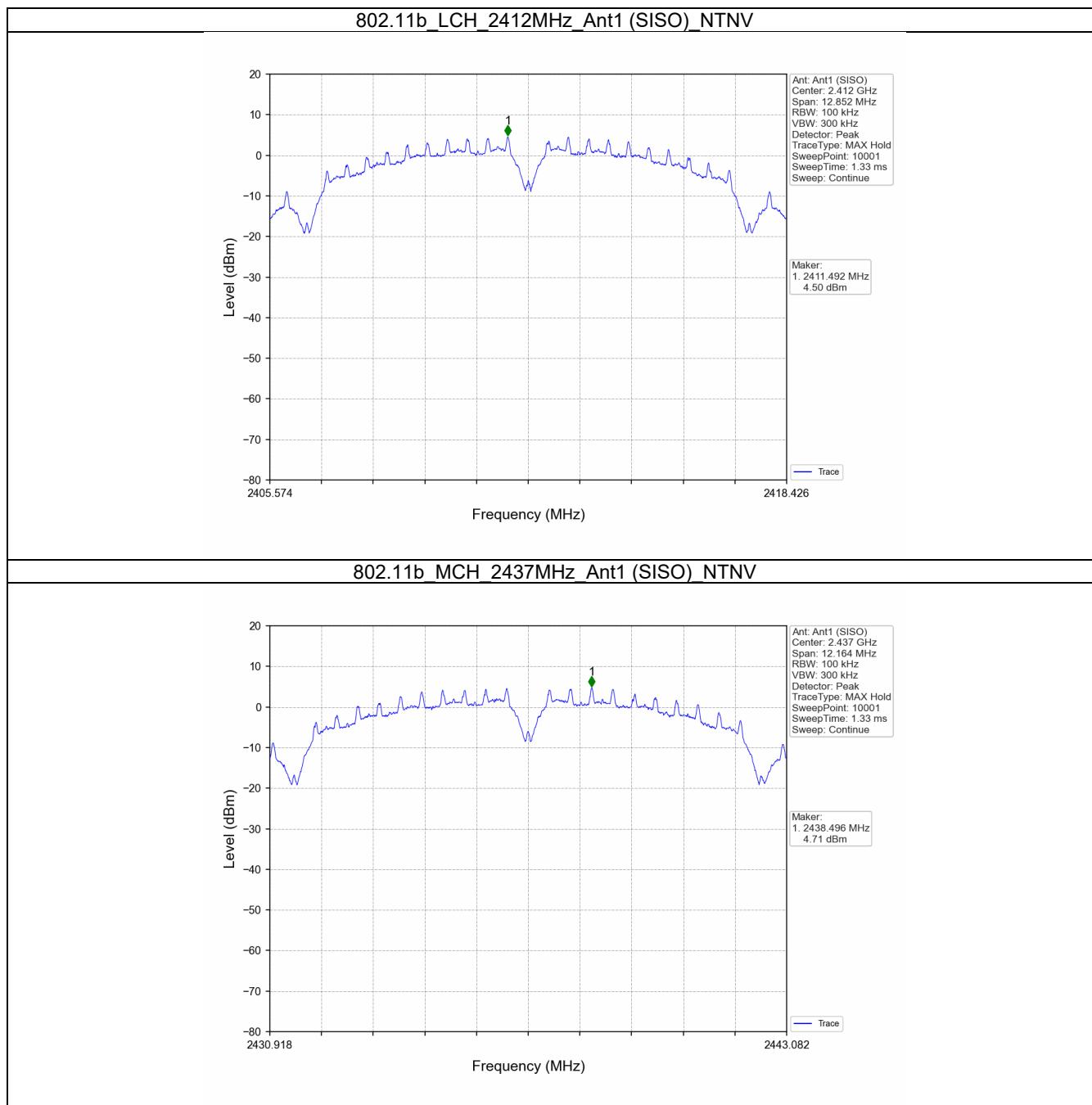
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5.1.2 Test Graph



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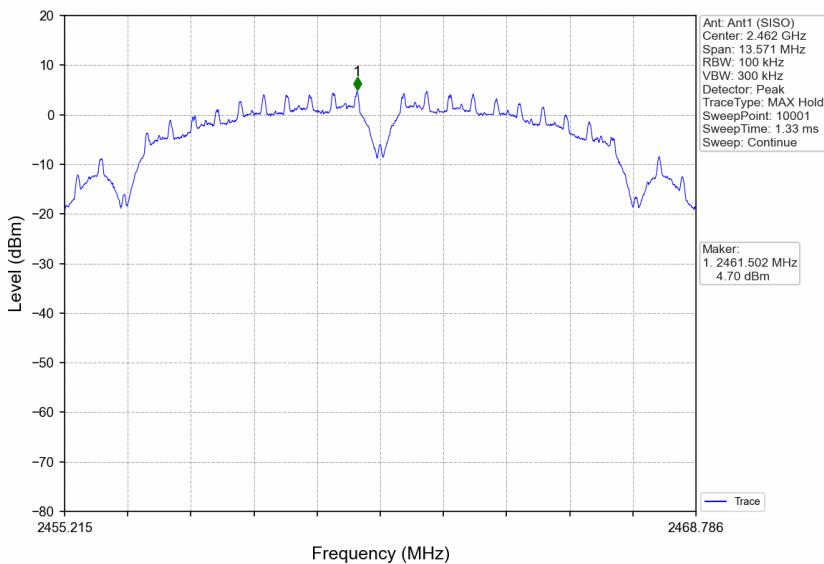


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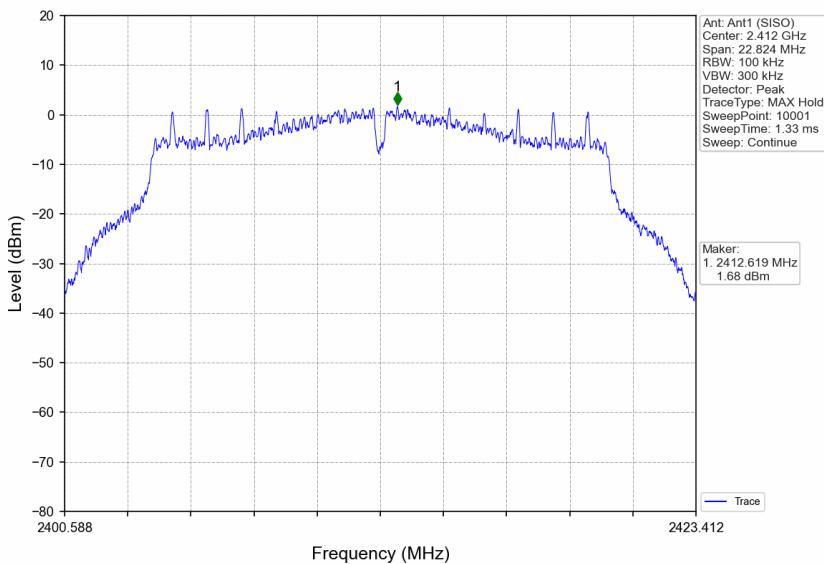
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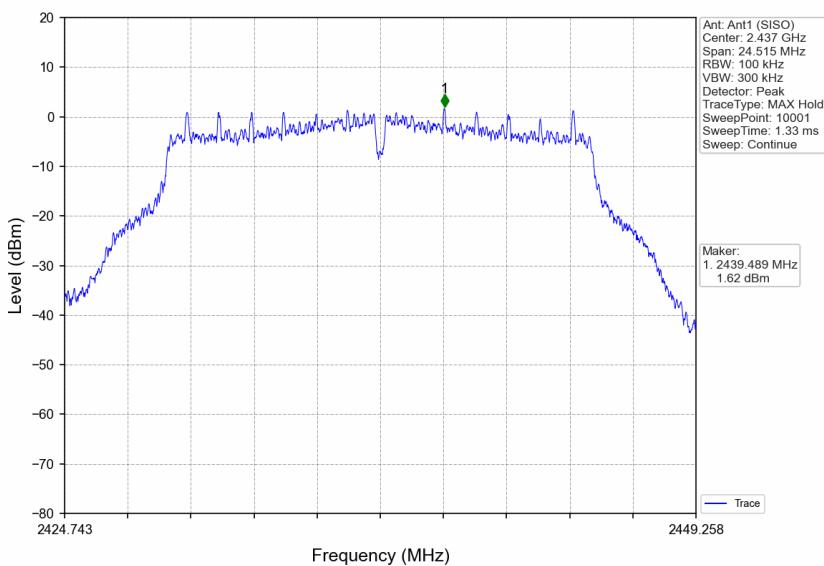


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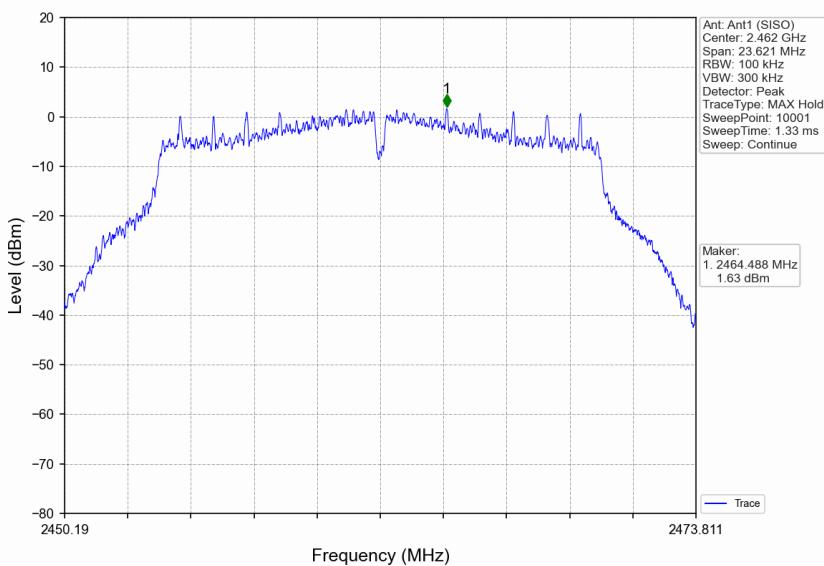
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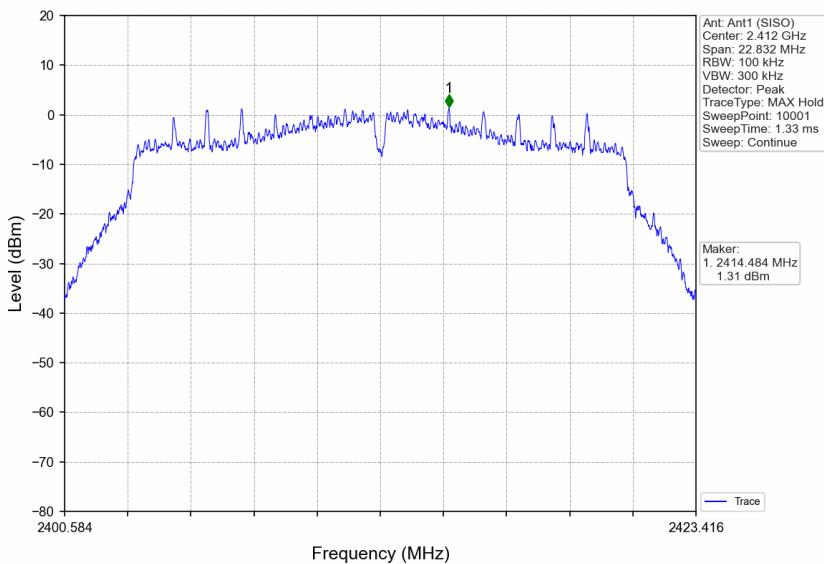
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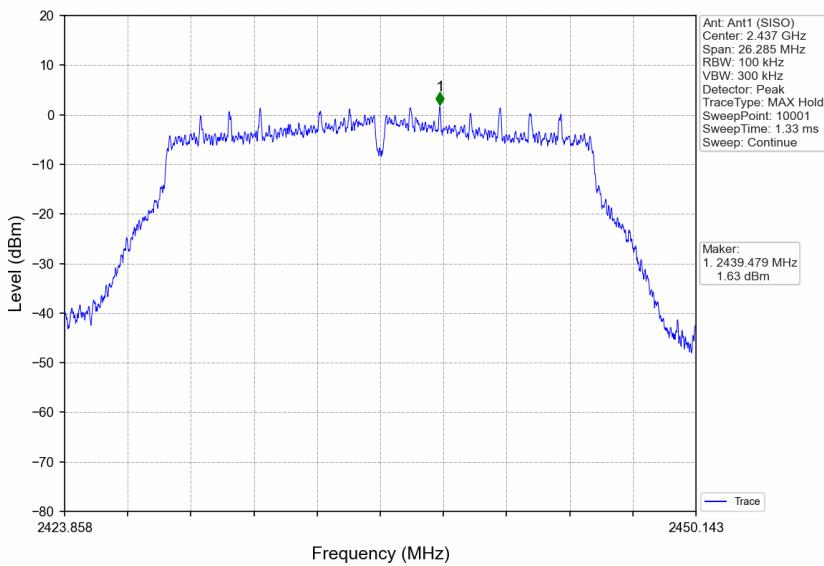


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802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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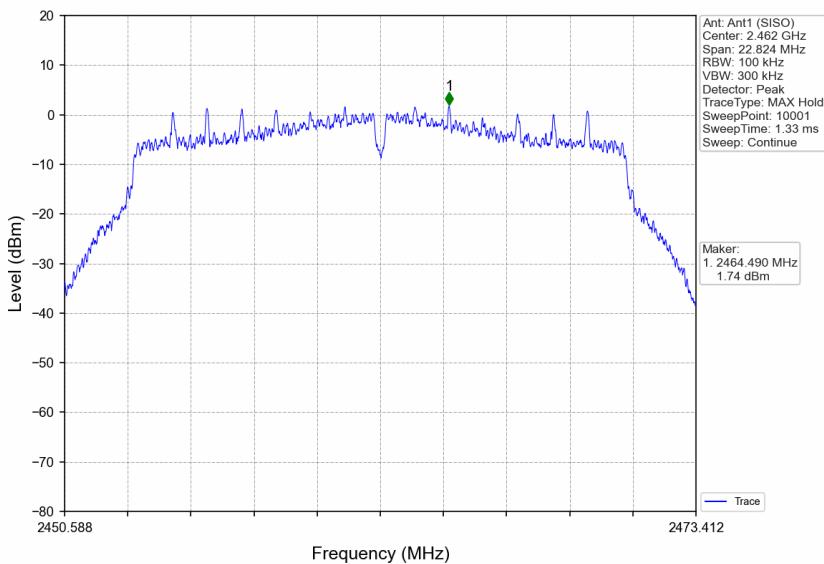
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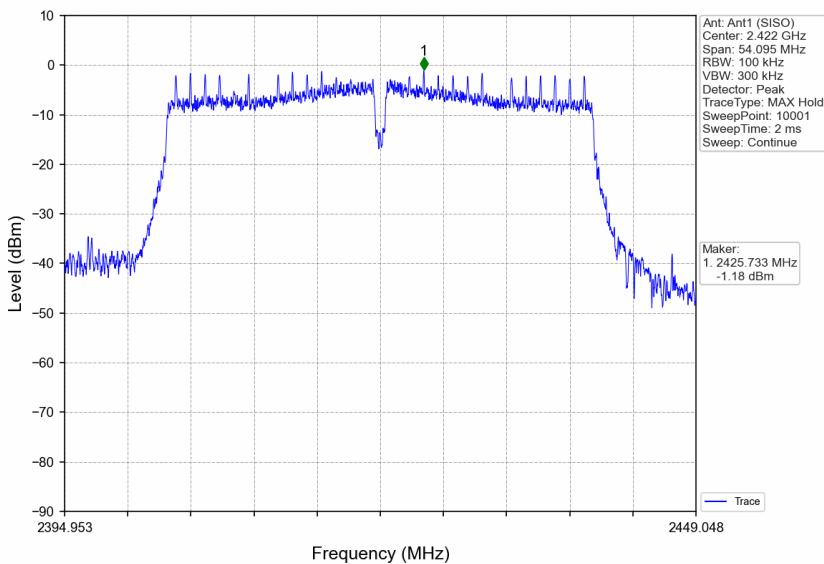


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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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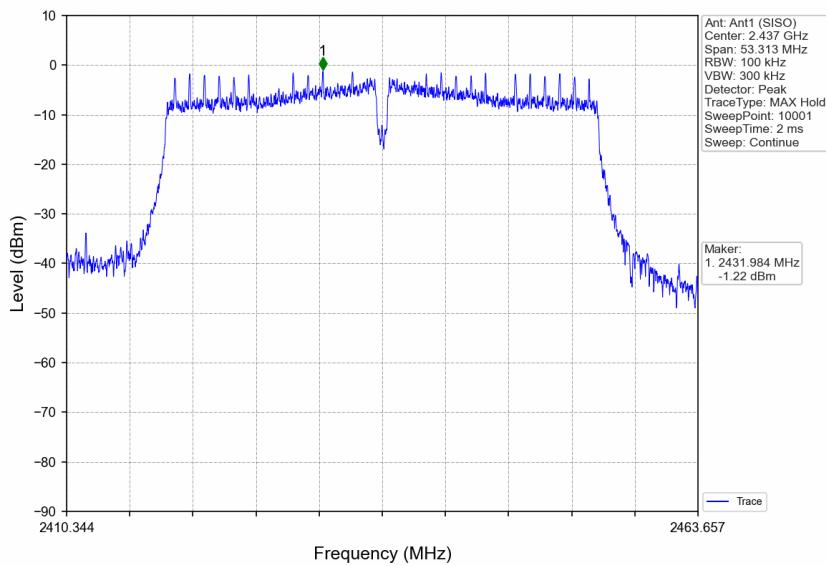


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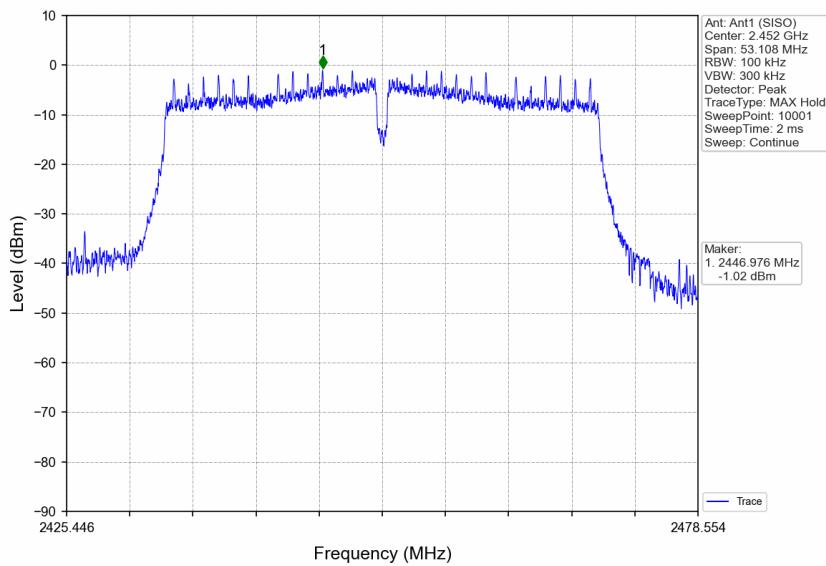
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802.11n(HT40) HCH 2452MHz_Ant1 (SISO)_NTNV



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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	4.71	-25.29	Pass
		2437	1	4.71	-25.29	Pass
		2462	1	4.71	-25.29	Pass
802.11g	SISO	2412	1	1.68	-28.32	Pass
		2437	1	1.68	-28.32	Pass
		2462	1	1.68	-28.32	Pass
802.11n (HT20)	SISO	2412	1	1.74	-28.26	Pass
		2437	1	1.74	-28.26	Pass
		2462	1	1.74	-28.26	Pass
802.11n (HT40)	SISO	2422	1	-1.02	-31.02	Pass
		2437	1	-1.02	-31.02	Pass
		2452	1	-1.02	-31.02	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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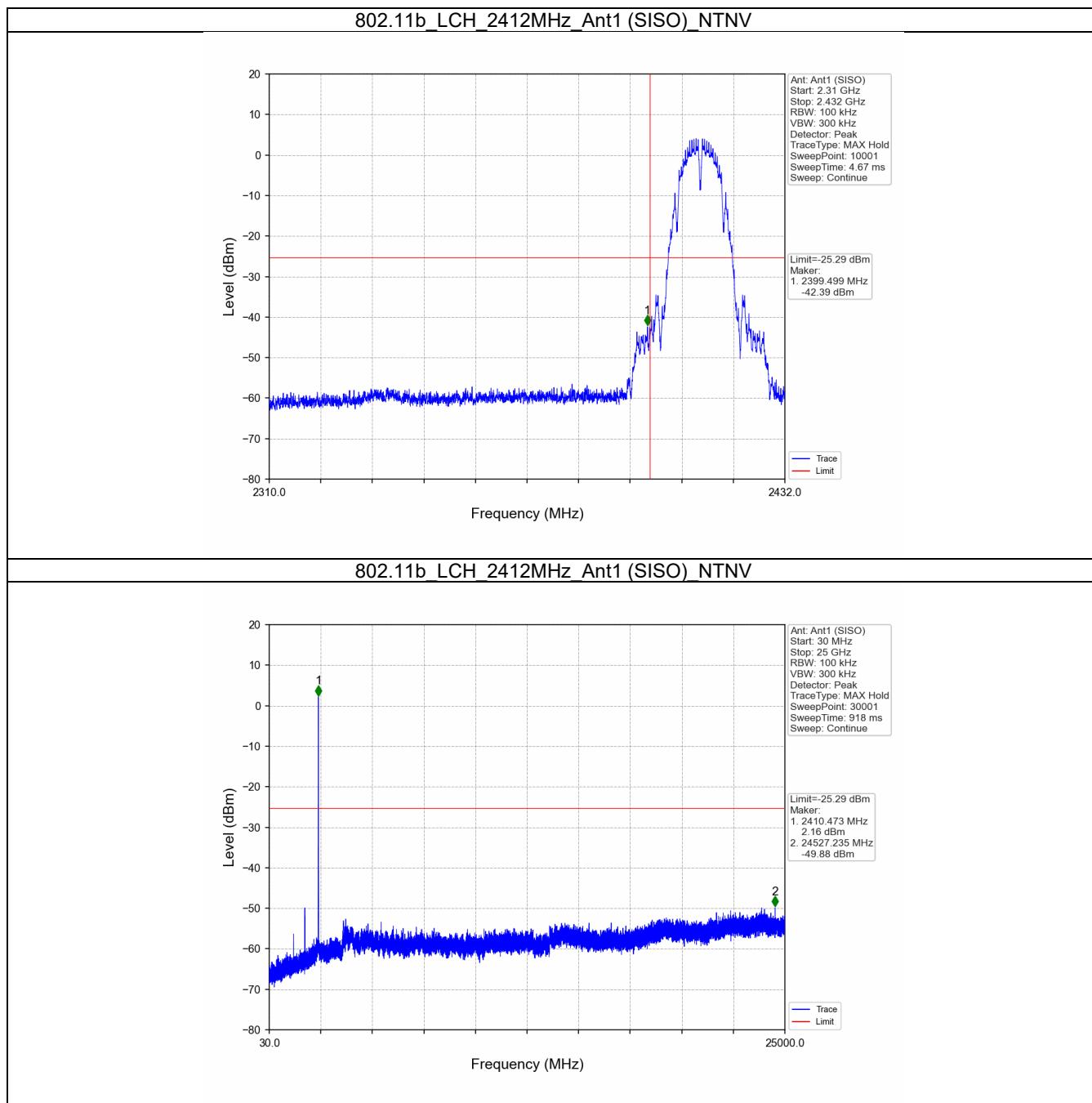
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5.2.2 Test Graph



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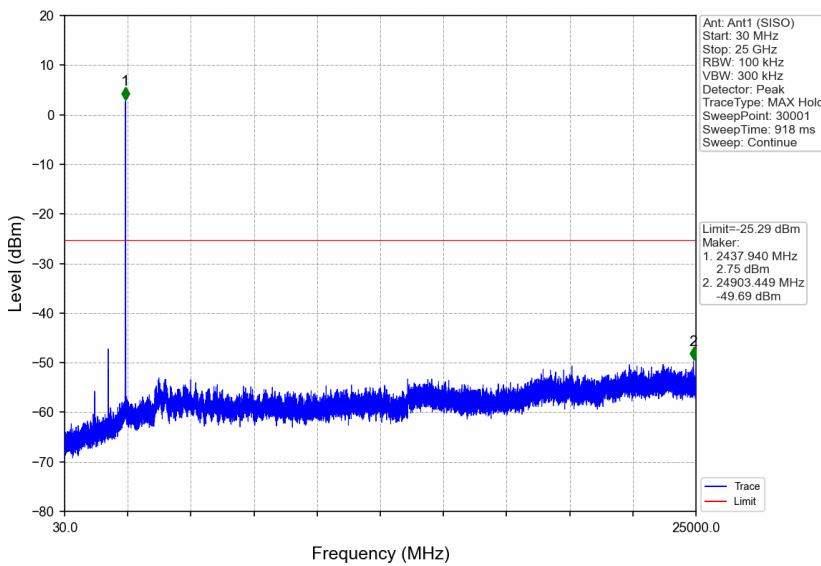
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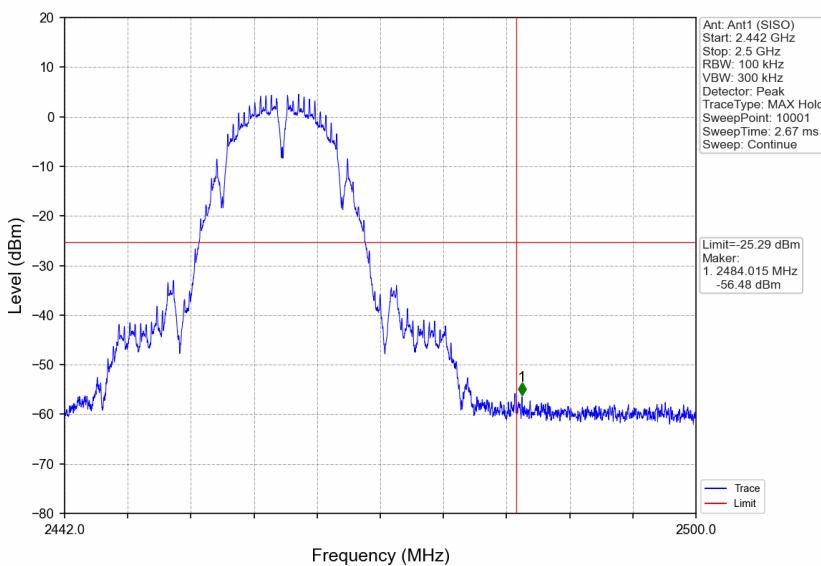
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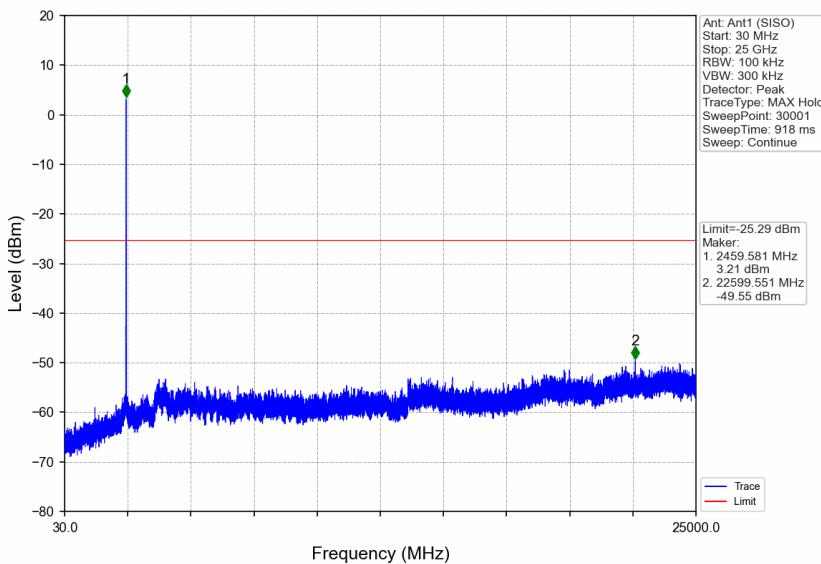


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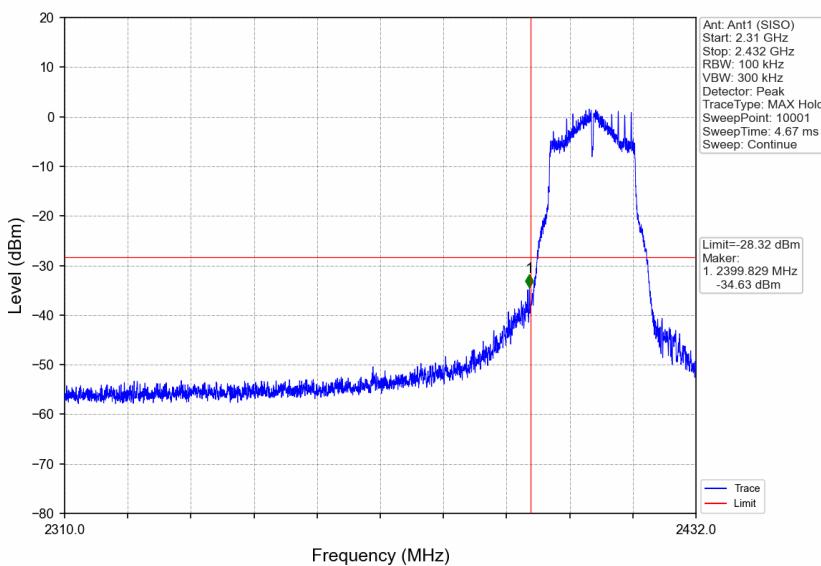
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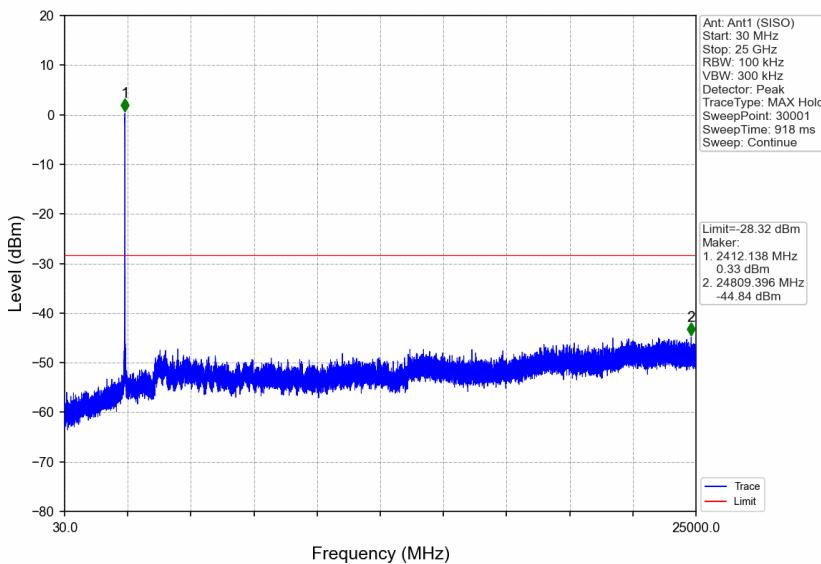


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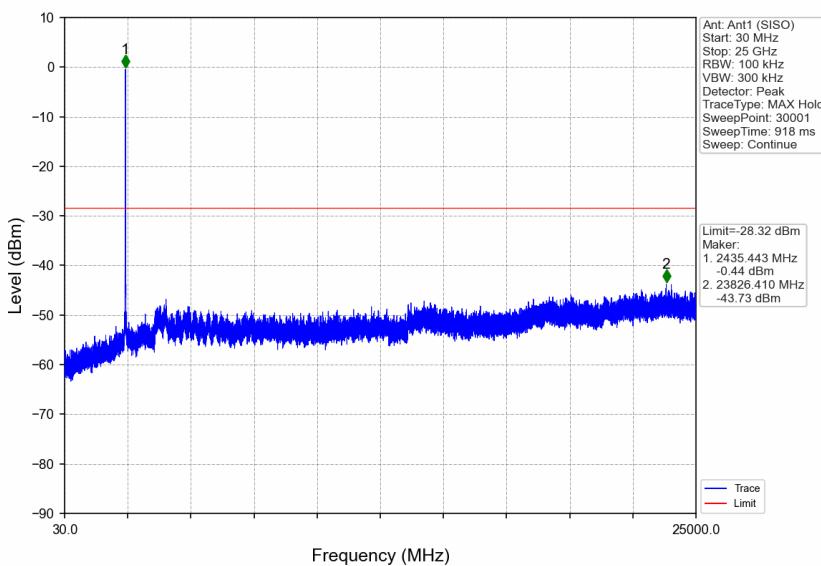
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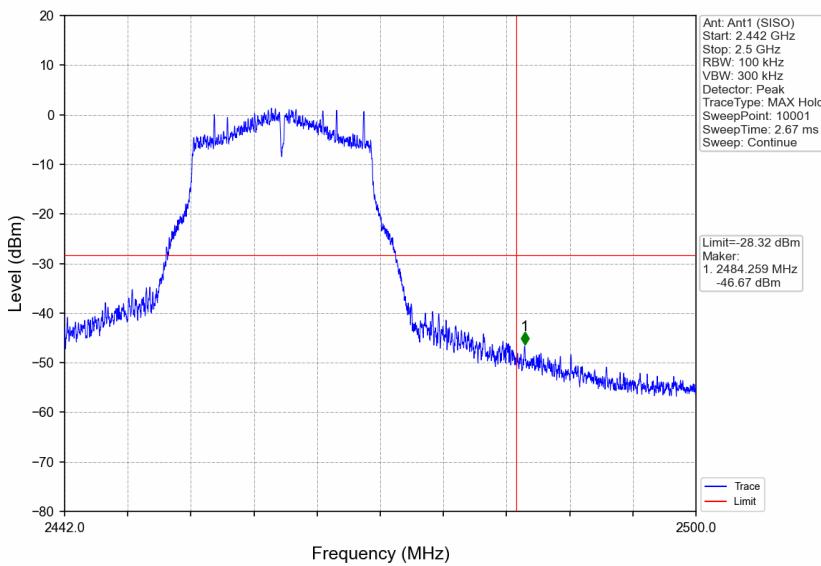


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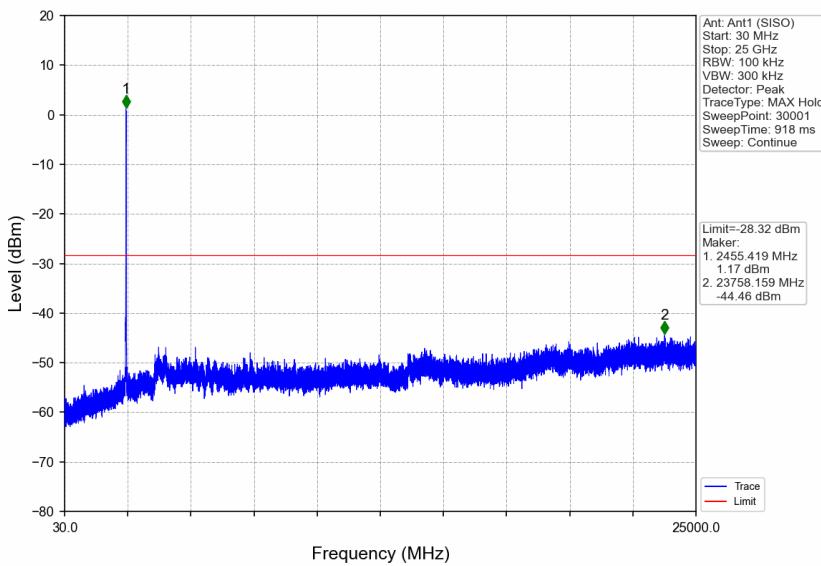
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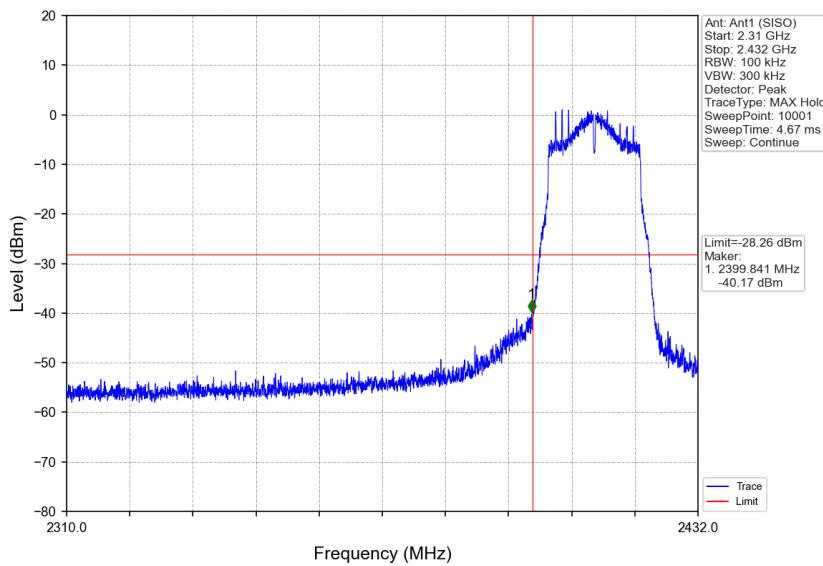


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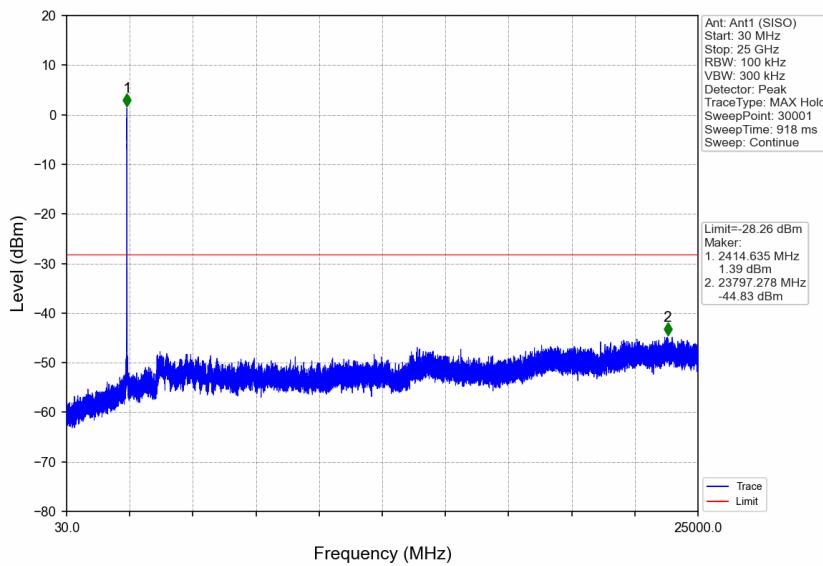
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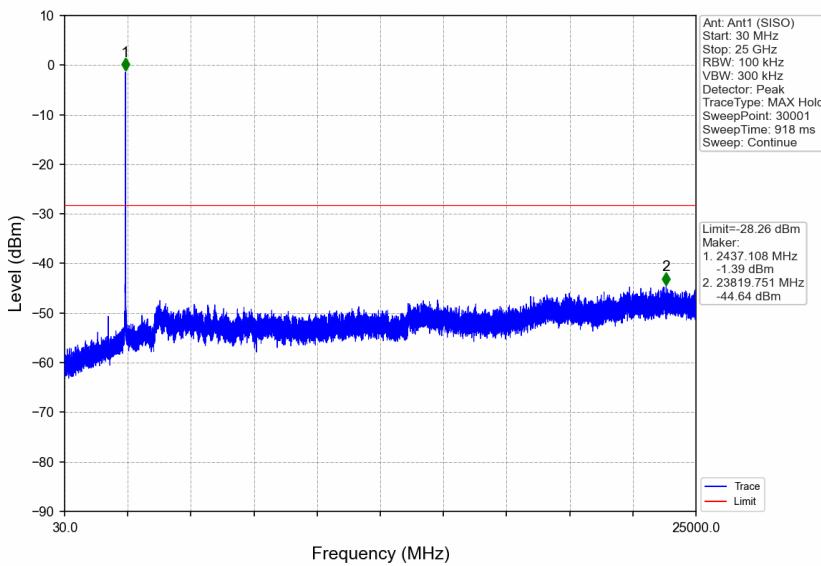


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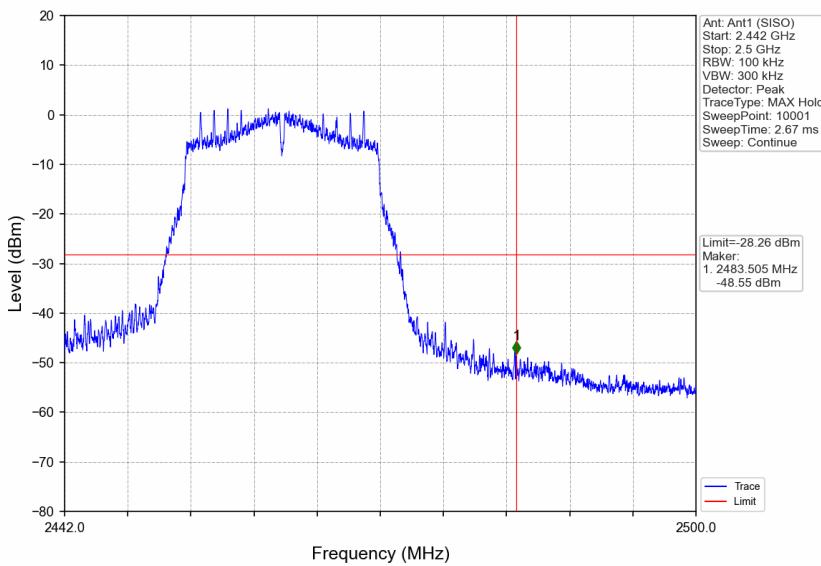
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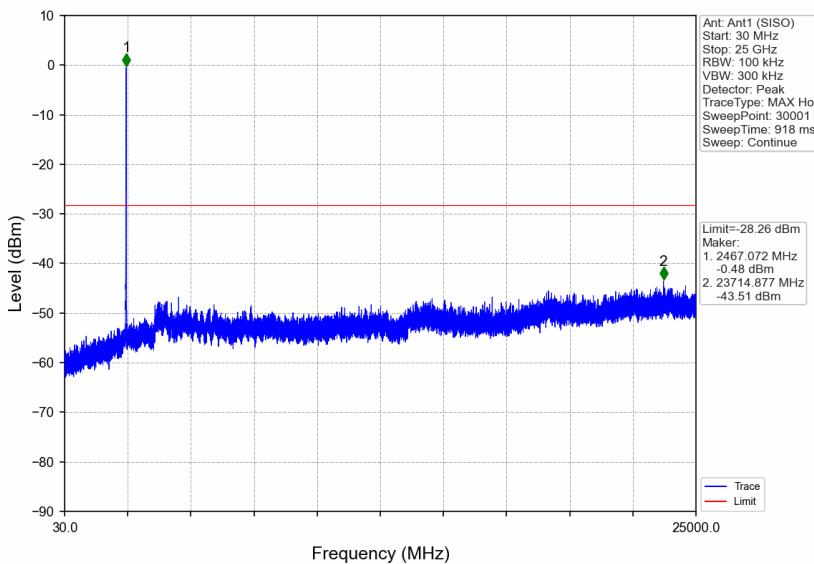


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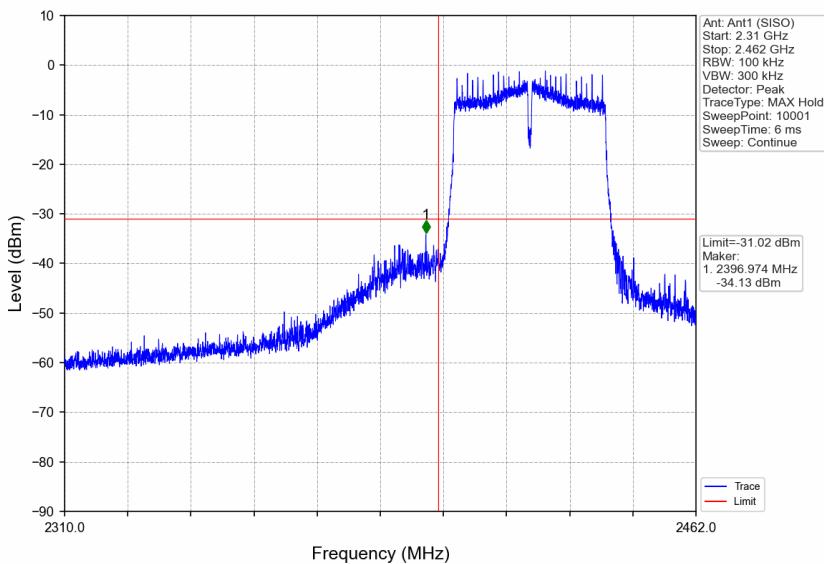
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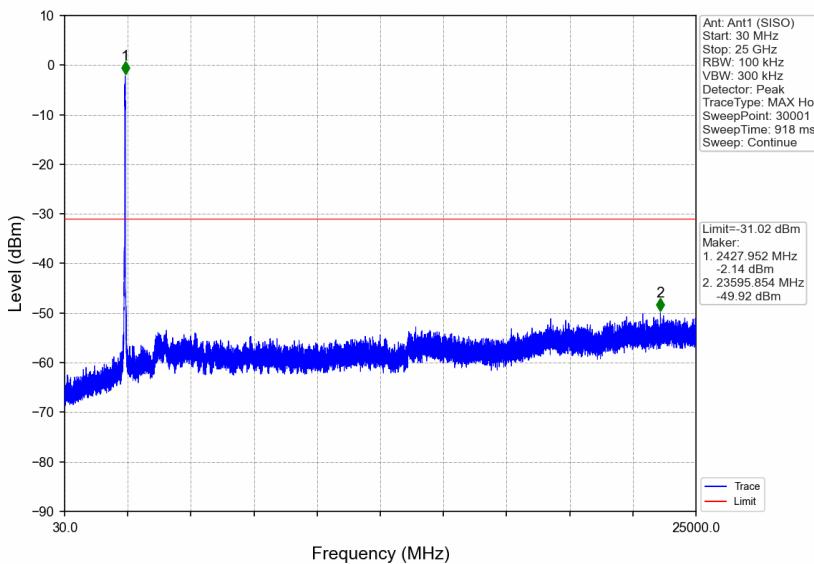
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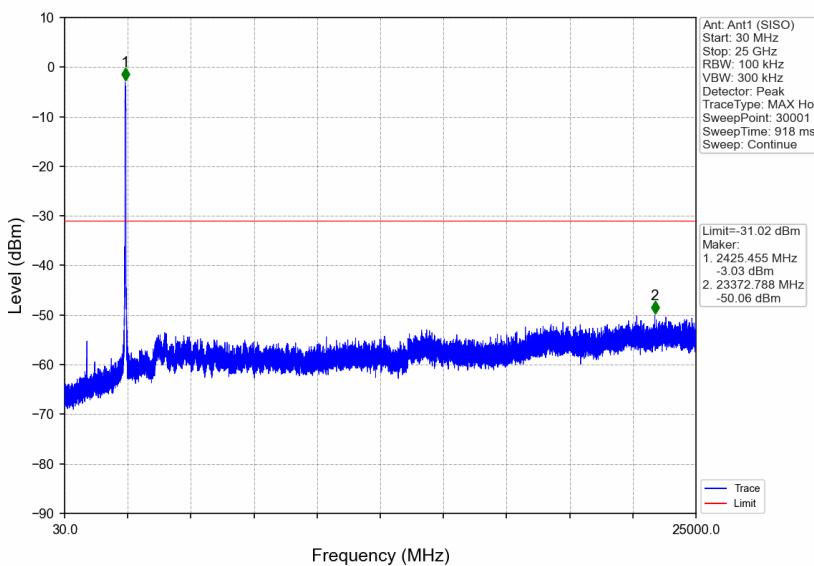
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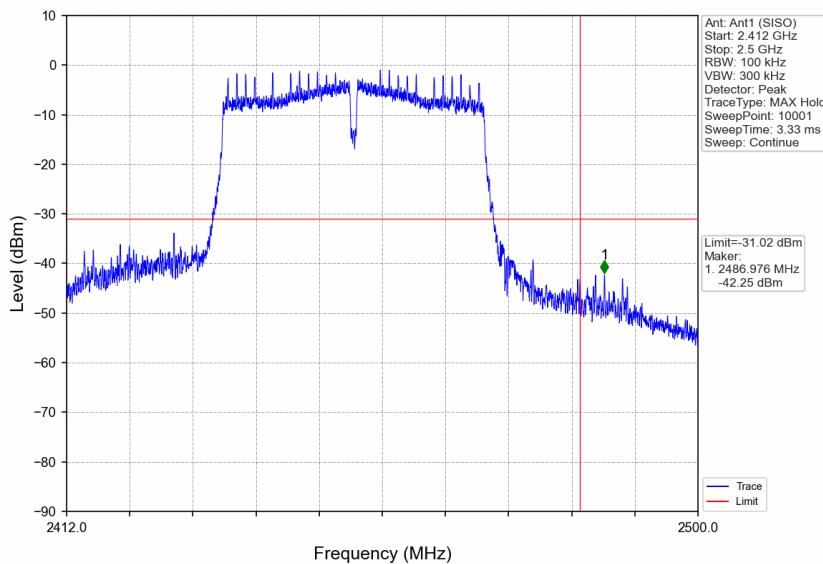


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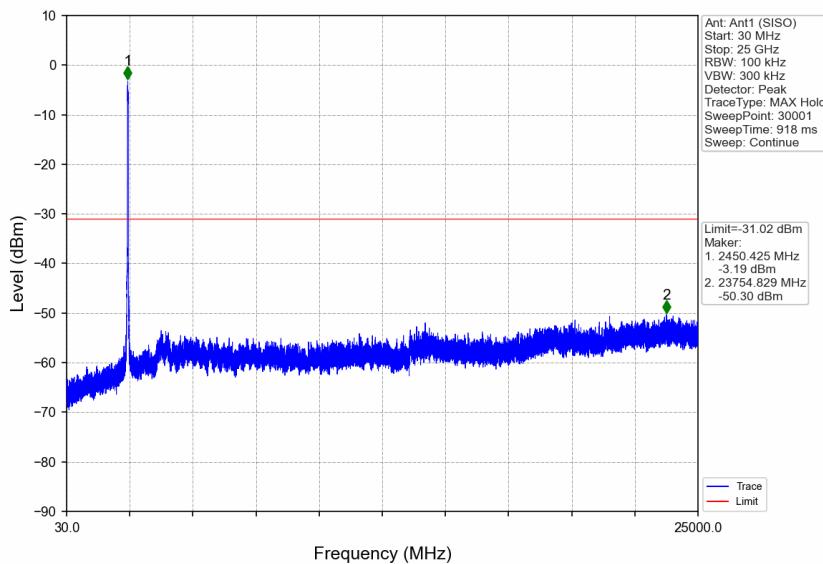
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